Full wwPDB EM Validation Report

Mar 31, 2026 – 12:48 PM EDT

PDB ID	:	3J3Q / pdb_00003j3q
EMDB ID	:	EMD-5639
Title	:	Atomic-level structure of the entire HIV-1 capsid
Authors	:	Perilla, J.R.; Zhao, G.; Zhang, P.; Schulten, K.J.
Deposited on	:	2013-04-12
Resolution	:	Not provided
Based on initial model	:	3J34

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references ⓘ) were used in the production of this report:

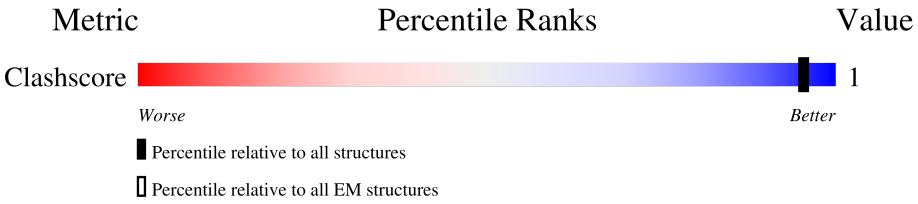
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	NOT EXECUTED
MapQ	:	FAILED
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is unknown.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	229148	23984

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5%

Mol	Chain	Length	Quality of chain
1	0	231	43% 53% .
1	1	231	42% 57% .
1	10	231	44% 53% .
1	11	231	45% 53% .
1	12	231	41% 56% .
1	13	231	43% 52% .
1	14	231	46% 49% 5%
1	15	231	41% 56% .
1	16	231	51% 46% .
1	17	231	42% 53% .
1	18	231	45% 52% .

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Mol	Chain	Length	Quality of chain
1	19	231	45% 54%
1	1A	231	43% 54%
1	1B	231	50% 47%
1	1C	231	41% 55%
1	1D	231	51% 47%
1	1E	231	51% 45%
1	1F	231	44% 51% 5%
1	1G	231	45% 51%
1	1H	231	46% 50%
1	1I	231	48% 50%
1	1J	231	43% 54%
1	1K	231	42% 54%
1	1L	231	46% 52%
1	1M	231	47% 49%
1	1N	231	44% 54%
1	1O	231	49% 49%
1	1P	231	49% 48%
1	1Q	231	48% 51%
1	1R	231	45% 52%
1	1S	231	42% 54%
1	1T	231	48% 49%
1	1U	231	50% 47%
1	1V	231	45% 51%
1	1W	231	47% 51%
1	1X	231	46% 50%

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Mol	Chain	Length	Quality of chain
1	1Y	231	41% 57%
1	1Z	231	40% 58%
1	1a	231	49% 49%
1	1b	231	45% 53%
1	1c	231	49% 48%
1	1d	231	47% 48%
1	1e	231	48% 51%
1	1f	231	48% 50%
1	1g	231	46% 51%
1	1h	231	43% 51% 6%
1	1i	231	45% 52%
1	1j	231	50% 45% 5%
1	1k	231	48% 50%
1	1l	231	44% 52%
1	1m	231	48% 47% 6%
1	1n	231	45% 52%
1	1o	231	42% 53% 5%
1	1p	231	52% 47%
1	1q	231	47% 50%
1	1r	231	47% 49%
1	1s	231	44% 53%
1	1t	231	45% 54%
1	1u	231	52% 45%
1	1v	231	48% 50%
1	1w	231	47% 52%

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Mol	Chain	Length	Quality of chain
1	1x	231	41% 57%
1	1y	231	42% 56%
1	1z	231	46% 50%
1	2	231	40% 55% 5%
1	20	231	42% 55%
1	21	231	39% 55% 6%
1	22	231	43% 54%
1	23	231	43% 54%
1	24	231	43% 53%
1	25	231	43% 55%
1	26	231	43% 53%
1	27	231	46% 53%
1	28	231	45% 51%
1	29	231	38% 60%
1	2A	231	41% 55%
1	2B	231	47% 50%
1	2C	231	44% 54%
1	2D	231	48% 48%
1	2E	231	39% 58%
1	2F	231	45% 54%
1	2G	231	43% 51% 6%
1	2H	231	49% 48%
1	2I	231	43% 55%
1	2J	231	48% 51%
1	2K	231	49% 50%

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Mol	Chain	Length	Quality of chain
1	2L	231	43% 55%
1	2M	231	46% 52%
1	2N	231	47% 48% 5%
1	2O	231	45% 52%
1	2P	231	49% 48%
1	2Q	231	45% 53%
1	2R	231	42% 56%
1	2S	231	41% 57%
1	2T	231	44% 52%
1	2U	231	43% 52%
1	2V	231	44% 54%
1	2W	231	44% 54%
1	2X	231	39% 60%
1	2Y	231	43% 55%
1	2Z	231	47% 50%
1	2a	231	44% 54%
1	2b	231	41% 57%
1	2c	231	44% 53%
1	2d	231	46% 51%
1	2e	231	43% 54%
1	2f	231	42% 55%
1	2g	231	40% 54% 6%
1	2h	231	47% 49%
1	2i	231	45% 52%
1	2j	231	42% 54%

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Mol	Chain	Length	Quality of chain
1	2k	231	46% 52%
1	2l	231	46% 50%
1	2m	231	50% 45% 5%
1	2n	231	41% 58%
1	2o	231	47% 48% 5%
1	2p	231	41% 54% 5%
1	2q	231	44% 53%
1	2r	231	44% 53%
1	2s	231	45% 52%
1	2t	231	45% 50%
1	2u	231	49% 49%
1	2v	231	42% 54%
1	2w	231	41% 57%
1	2x	231	41% 57%
1	2y	231	43% 55%
1	2z	231	44% 53%
1	3	231	45% 52%
1	30	231	39% 58%
1	31	231	49% 48%
1	32	231	43% 53%
1	33	231	47% 49%
1	34	231	49% 49%
1	35	231	49% 47%
1	36	231	46% 51%
1	37	231	44% 54%

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Mol	Chain	Length	Quality of chain
1	38	231	47% 52%
1	39	231	47% 50%
1	3A	231	45% 55%
1	3B	231	46% 50%
1	3C	231	44% 55%
1	3D	231	45% 53%
1	3E	231	47% 52%
1	3F	231	39% 59%
1	3G	231	43% 54%
1	3H	231	47% 49%
1	3I	231	43% 56%
1	3J	231	47% 51%
1	3K	231	45% 52%
1	3L	231	45% 53%
1	3M	231	46% 49%
1	3N	231	44% 52% 5%
1	3O	231	35% 60% 5%
1	3P	231	43% 53%
1	3Q	231	43% 54%
1	3R	231	47% 48%
1	3S	231	41% 55%
1	3T	231	46% 52%
1	3U	231	47% 49%
1	3V	231	45% 51%
1	3W	231	43% 53%

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Mol	Chain	Length	Quality of chain
1	3X	231	39% 58%
1	3Y	231	47% 50%
1	3Z	231	41% 55%
1	3a	231	42% 52% 6%
1	3b	231	45% 52%
1	3c	231	45% 52%
1	3d	231	46% 51%
1	3e	231	45% 52%
1	3f	231	49% 50%
1	3g	231	47% 49%
1	3h	231	45% 53%
1	3i	231	45% 50% 5%
1	3j	231	43% 56%
1	3k	231	48% 50%
1	3l	231	42% 56%
1	3m	231	50% 48%
1	3n	231	43% 56%
1	3o	231	42% 56%
1	3p	231	44% 52%
1	3q	231	42% 55%
1	3r	231	42% 55%
1	3s	231	41% 52% 6%
1	3t	231	45% 52%
1	3u	231	49% 49%
1	3v	231	46% 52%

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Mol	Chain	Length	Quality of chain
1	3w	231	45% 52%
1	3x	231	47% 51%
1	3y	231	45% 51%
1	3z	231	45% 52%
1	4	231	43% 54%
1	40	231	47% 52%
1	41	231	45% 50%
1	42	231	42% 52% 5%
1	43	231	43% 53%
1	44	231	44% 53%
1	45	231	48% 50%
1	46	231	45% 54%
1	47	231	46% 51%
1	48	231	42% 56%
1	49	231	41% 57%
1	4A	231	48% 47% 5%
1	4B	231	46% 50%
1	4C	231	54% 43%
1	4D	231	43% 54%
1	4E	231	43% 55%
1	4F	231	42% 52% 6%
1	4G	231	44% 54%
1	4H	231	48% 49%
1	4I	231	45% 53%
1	4J	231	44% 53%

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Mol	Chain	Length	Quality of chain
1	4K	231	45% 52%
1	4L	231	48% 47% 5%
1	4M	231	42% 55%
1	4N	231	48% 50%
1	4O	231	43% 55%
1	4P	231	44% 55%
1	4Q	231	48% 50%
1	4R	231	45% 51%
1	4S	231	45% 52%
1	4T	231	45% 54%
1	4U	231	40% 57%
1	4V	231	48% 51%
1	4W	231	48% 50%
1	4X	231	44% 54%
1	4Y	231	45% 51%
1	4Z	231	42% 57%
1	4a	231	44% 52%
1	4b	231	40% 58%
1	4c	231	41% 56%
1	4d	231	42% 55%
1	4e	231	49% 49%
1	4f	231	40% 55% 5%
1	4g	231	49% 48%
1	4h	231	39% 59%
1	4i	231	49% 48%

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Mol	Chain	Length	Quality of chain
1	4j	231	43% 55%
1	4k	231	41% 55%
1	4l	231	45% 52%
1	4m	231	49% 47%
1	4n	231	48% 50%
1	4o	231	41% 55%
1	4p	231	46% 50%
1	4q	231	42% 54%
1	4r	231	47% 49%
1	4s	231	42% 55%
1	4t	231	47% 51%
1	4u	231	51% 47%
1	4v	231	42% 55%
1	4w	231	45% 50% 5%
1	4x	231	45% 53%
1	4y	231	41% 56%
1	4z	231	46% 51%
1	5	231	46% 50%
1	50	231	48% 49%
1	51	231	48% 49%
1	52	231	51% 45%
1	53	231	43% 54%
1	54	231	44% 52% 5%
1	55	231	42% 54%
1	56	231	45% 52%

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Mol	Chain	Length	Quality of chain
1	57	231	44% 52%
1	58	231	42% 55%
1	59	231	41% 57%
1	5A	231	46% 50%
1	5B	231	46% 52%
1	5C	231	41% 56%
1	5D	231	44% 53%
1	5E	231	43% 54%
1	5F	231	47% 49%
1	5G	231	42% 55%
1	5H	231	51% 47%
1	5I	231	45% 52%
1	5J	231	45% 50% 5%
1	5K	231	45% 53%
1	5L	231	42% 55%
1	5M	231	48% 48%
1	5N	231	50% 48%
1	5O	231	46% 52%
1	5P	231	47% 48%
1	5Q	231	46% 50%
1	5R	231	44% 53%
1	5S	231	44% 53%
1	5T	231	38% 57% 5%
1	5U	231	47% 50%
1	5V	231	44% 53%

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Mol	Chain	Length	Quality of chain
1	5W	231	45% 50% 6%
1	5X	231	48% 50%
1	5Y	231	43% 56%
1	5Z	231	46% 51%
1	5a	231	42% 56%
1	5b	231	43% 53%
1	5c	231	42% 54%
1	5d	231	45% 51%
1	5e	231	47% 52%
1	5f	231	38% 58%
1	5g	231	46% 52%
1	5h	231	41% 58%
1	5i	231	47% 49%
1	5j	231	45% 53%
1	5k	231	46% 50%
1	5l	231	42% 55%
1	5m	231	48% 49%
1	5n	231	44% 54%
1	5o	231	46% 50%
1	5p	231	48% 48%
1	5q	231	45% 54%
1	5r	231	46% 51%
1	5s	231	48% 47%
1	5t	231	40% 57%
1	5u	231	45% 52%

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Mol	Chain	Length	Quality of chain
1	5v	231	46% 51%
1	5w	231	49% 48%
1	5x	231	40% 57%
1	5y	231	47% 49%
1	5z	231	44% 52%
1	6	231	41% 56%
1	60	231	46% 53%
1	61	231	47% 51%
1	62	231	43% 54%
1	63	231	41% 55%
1	64	231	42% 55%
1	65	231	44% 52%
1	66	231	47% 51%
1	67	231	42% 55%
1	68	231	47% 50%
1	69	231	44% 54%
1	6A	231	39% 58%
1	6B	231	46% 50%
1	6C	231	44% 52%
1	6D	231	47% 51%
1	6E	231	46% 51%
1	6F	231	46% 52%
1	6G	231	44% 54%
1	6H	231	41% 56%
1	6I	231	47% 48%

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Mol	Chain	Length	Quality of chain
1	6J	231	45% 54%
1	6K	231	46% 51%
1	6L	231	52% 46%
1	6M	231	40% 57%
1	6N	231	44% 51% 5%
1	6O	231	45% 52%
1	6P	231	46% 50%
1	6Q	231	44% 54%
1	6R	231	44% 53%
1	6S	231	48% 50%
1	6T	231	43% 52% 5%
1	6U	231	48% 49%
1	6V	231	51% 48%
1	6W	231	44% 52%
1	6X	231	48% 50%
1	6Y	231	46% 50%
1	6Z	231	46% 52%
1	6a	231	42% 56%
1	6b	231	42% 55%
1	6c	231	48% 49%
1	6d	231	48% 49%
1	6e	231	47% 49%
1	6f	231	45% 52%
1	6g	231	38% 58%
1	6h	231	46% 52%

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Mol	Chain	Length	Quality of chain
1	6i	231	41% 55% .
1	6j	231	38% 57% 5%
1	6k	231	44% 52% .
1	6l	231	45% 51% .
1	6m	231	49% 48% .
1	6n	231	45% 55%
1	6o	231	43% 56% .
1	6p	231	43% 54% .
1	6q	231	49% 49% .
1	6r	231	44% 54% .
1	6s	231	41% 55% .
1	6t	231	38% 57% 5%
1	6u	231	43% 53% .
1	6v	231	45% 51% .
1	6w	231	42% 54% .
1	6x	231	51% 46% .
1	6y	231	43% 54% .
1	6z	231	45% 54% .
1	7	231	46% 53% .
1	70	231	41% 56% .
1	71	231	51% 47% .
1	72	231	45% 51% .
1	73	231	42% 56% .
1	74	231	50% 48% .
1	75	231	48% 45% 6%

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Mol	Chain	Length	Quality of chain
1	76	231	51% 48%
1	77	231	43% 53%
1	78	231	42% 55%
1	79	231	44% 53%
1	7A	231	45% 53%
1	7B	231	43% 54%
1	7C	231	42% 55%
1	7D	231	42% 54%
1	7E	231	44% 52%
1	7F	231	48% 51%
1	7G	231	46% 51%
1	7H	231	42% 55%
1	7I	231	51% 46%
1	7J	231	47% 51%
1	7K	231	40% 56%
1	7L	231	45% 51%
1	7M	231	43% 52%
1	7N	231	46% 52%
1	7O	231	52% 47%
1	7P	231	41% 55%
1	7Q	231	39% 58%
1	7R	231	43% 56%
1	7S	231	40% 59%
1	7T	231	45% 52%
1	7U	231	45% 52%

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Mol	Chain	Length	Quality of chain
1	7V	231	44% 52%
1	7W	231	45% 52%
1	7X	231	46% 52%
1	7Y	231	45% 53%
1	7Z	231	46% 51%
1	7a	231	44% 52%
1	7b	231	43% 55%
1	7c	231	45% 51%
1	7d	231	48% 48%
1	7e	231	50% 47%
1	7f	231	46% 49% 5%
1	7g	231	47% 52%
1	7h	231	46% 48% 6%
1	7i	231	45% 52%
1	7j	231	45% 51%
1	7k	231	42% 55%
1	7l	231	46% 50%
1	7m	231	38% 59%
1	7n	231	43% 54%
1	7o	231	46% 52%
1	7p	231	44% 52%
1	7q	231	44% 53%
1	7r	231	49% 47%
1	7s	231	49% 47%
1	7t	231	45% 53%

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Mol	Chain	Length	Quality of chain
1	7u	231	39% 59%
1	7v	231	42% 56%
1	7w	231	49% 48%
1	7x	231	45% 53%
1	7y	231	45% 52%
1	7z	231	47% 50%
1	8	231	42% 55%
1	80	231	52% 45%
1	81	231	49% 47%
1	82	231	40% 57%
1	83	231	44% 55%
1	84	231	44% 52%
1	85	231	42% 54%
1	86	231	39% 58%
1	87	231	46% 51%
1	88	231	47% 49%
1	89	231	50% 46%
1	8A	231	47% 49%
1	8B	231	48% 47%
1	8C	231	42% 55%
1	8D	231	41% 57%
1	8E	231	47% 49%
1	8F	231	45% 52%
1	8G	231	48% 49%
1	8H	231	42% 56%

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Mol	Chain	Length	Quality of chain
1	8I	231	48% 49%
1	8J	231	43% 53%
1	8K	231	45% 52%
1	8L	231	45% 52%
1	8M	231	42% 55%
1	8N	231	40% 56%
1	8O	231	38% 60%
1	8P	231	39% 59%
1	8Q	231	48% 49%
1	8R	231	45% 52%
1	8S	231	49% 48%
1	8T	231	48% 48%
1	8U	231	44% 53%
1	8V	231	45% 52%
1	8W	231	47% 52%
1	8X	231	43% 52% 5%
1	8Y	231	47% 49%
1	8Z	231	48% 49%
1	8a	231	41% 57%
1	8b	231	43% 53%
1	8c	231	45% 52%
1	8d	231	46% 52%
1	8e	231	42% 55%
1	8f	231	48% 48%
1	8g	231	48% 49%

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Mol	Chain	Length	Quality of chain
1	8h	231	47% 49% •
1	8i	231	47% 48% 5%
1	8j	231	42% 55% •
1	8k	231	40% 57% •
1	8l	231	36% 60% •
1	8m	231	40% 58% •
1	8n	231	48% 49% •
1	8o	231	48% 49% •
1	8p	231	46% 51% •
1	8q	231	48% 49% •
1	8r	231	54% 43% •
1	8s	231	48% 49% •
1	8t	231	38% 61% •
1	8u	231	46% 51% •
1	8v	231	50% 44% 6%
1	8w	231	42% 55% •
1	8x	231	45% 51% 5%
1	8y	231	48% 50% •
1	8z	231	44% 53% •
1	9	231	47% 51% •
1	90	231	44% 52% •
1	91	231	44% 52% •
1	92	231	43% 54% •
1	93	231	49% 47% •
1	94	231	44% 52% •

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Mol	Chain	Length	Quality of chain
1	95	231	46% 52%
1	96	231	40% 58%
1	97	231	47% 49%
1	98	231	49% 47%
1	99	231	49% 49%
1	9A	231	53% 45%
1	9B	231	41% 56%
1	9C	231	48% 50%
1	9D	231	46% 51%
1	9E	231	43% 54%
1	9F	231	48% 50%
1	9G	231	40% 58%
1	9H	231	42% 55%
1	9I	231	44% 54%
1	9J	231	42% 55%
1	9K	231	45% 53%
1	9L	231	48% 50%
1	9M	231	48% 50%
1	9N	231	45% 52%
1	9O	231	42% 55%
1	9P	231	46% 51%
1	9Q	231	51% 47%
1	9R	231	45% 53%
1	9S	231	37% 61%
1	9T	231	45% 49% 6%

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Mol	Chain	Length	Quality of chain
1	9U	231	41% 56%
1	9V	231	46% 50%
1	9W	231	49% 47%
1	9X	231	45% 52%
1	9Y	231	41% 55%
1	9Z	231	43% 54%
1	9a	231	45% 52%
1	9b	231	45% 53%
1	9c	231	51% 46%
1	9d	231	46% 48% 6%
1	9e	231	45% 52%
1	9f	231	42% 55%
1	9g	231	48% 48%
1	9h	231	48% 48%
1	9i	231	43% 55%
1	9j	231	40% 56%
1	9k	231	45% 52%
1	9l	231	45% 52%
1	9m	231	47% 50%
1	9n	231	46% 51%
1	9o	231	44% 53%
1	9p	231	46% 50%
1	9q	231	45% 50% 5%
1	9r	231	42% 55%
1	9s	231	42% 54%

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Mol	Chain	Length	Quality of chain
1	9t	231	45% 52%
1	9u	231	49% 49%
1	9v	231	49% 46%
1	9w	231	44% 54%
1	9x	231	48% 48%
1	9y	231	42% 55%
1	9z	231	42% 55%
1	A	231	46% 49% 5%
1	B	231	46% 52%
1	C	231	36% 59% 5%
1	D	231	45% 51%
1	E	231	46% 52%
1	F	231	42% 56%
1	G	231	53% 42% 5%
1	H	231	48% 50%
1	I	231	55% 43%
1	J	231	50% 47%
1	K	231	46% 52%
1	L	231	45% 52%
1	M	231	38% 57% 5%
1	N	231	46% 49% 5%
1	O	231	42% 54%
1	P	231	46% 51%
1	Q	231	45% 51%
1	R	231	35% 61%

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Mol	Chain	Length	Quality of chain
1	S	231	48% 49%
1	T	231	42% 56%
1	U	231	54% 43%
1	V	231	39% 57%
1	W	231	48% 48%
1	X	231	48% 51%
1	Y	231	45% 53%
1	Z	231	40% 58%
1	a	231	44% 53%
1	a0	231	44% 52%
1	a1	231	47% 50%
1	a2	231	45% 52%
1	a3	231	44% 54%
1	a4	231	41% 57%
1	a5	231	42% 55%
1	a6	231	52% 44%
1	a7	231	45% 53%
1	a8	231	43% 54%
1	a9	231	42% 52% 5%
1	aA	231	49% 48%
1	aB	231	48% 49%
1	aC	231	47% 50%
1	aD	231	49% 50%
1	aE	231	40% 55%
1	aF	231	42% 55%

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Mol	Chain	Length	Quality of chain
1	aG	231	44% 55%
1	aH	231	44% 54%
1	aI	231	44% 55%
1	aJ	231	50% 48%
1	aK	231	43% 53%
1	aL	231	44% 53%
1	aM	231	50% 48%
1	aN	231	44% 52%
1	aO	231	45% 51%
1	aP	231	43% 54%
1	aQ	231	47% 49%
1	aR	231	49% 48%
1	aS	231	49% 48%
1	aT	231	45% 52%
1	aU	231	43% 53%
1	aV	231	45% 52%
1	aW	231	42% 54%
1	aX	231	46% 50%
1	aY	231	47% 49%
1	aZ	231	45% 51%
1	aa	231	44% 55%
1	ab	231	45% 52%
1	ac	231	50% 46%
1	ad	231	45% 52%
1	ae	231	42% 55%

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Mol	Chain	Length	Quality of chain
1	af	231	51% 47%
1	ag	231	47% 49%
1	ah	231	40% 58%
1	ai	231	47% 48% 5%
1	aj	231	46% 51%
1	ak	231	38% 61%
1	al	231	46% 52%
1	am	231	52% 46%
1	an	231	42% 55%
1	ao	231	45% 52%
1	ap	231	44% 53%
1	aq	231	41% 57%
1	ar	231	46% 51%
1	as	231	45% 53%
1	at	231	38% 59%
1	au	231	44% 52%
1	av	231	52% 45%
1	aw	231	44% 52%
1	ax	231	42% 53%
1	ay	231	53% 44%
1	az	231	51% 45%
1	b	231	46% 52%
1	b0	231	39% 55% 5%
1	b1	231	48% 48%
1	b2	231	45% 49% 5%

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Mol	Chain	Length	Quality of chain
1	b3	231	43% 53%
1	b4	231	46% 51%
1	b5	231	47% 48%
1	b6	231	49% 48%
1	b7	231	43% 55%
1	b8	231	44% 54%
1	b9	231	48% 51%
1	bA	231	43% 53%
1	bB	231	47% 47% 6%
1	bC	231	44% 52%
1	bD	231	45% 52%
1	bE	231	41% 54% 5%
1	bF	231	49% 48%
1	bG	231	45% 53%
1	bH	231	45% 53%
1	bI	231	48% 49%
1	bJ	231	44% 55%
1	bK	231	47% 50%
1	bL	231	47% 49%
1	bM	231	44% 52%
1	bN	231	51% 44% 5%
1	bO	231	48% 48%
1	bP	231	45% 54%
1	bQ	231	45% 53%
1	bR	231	43% 52%

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Mol	Chain	Length	Quality of chain
1	bS	231	47% 50%
1	bT	231	42% 55%
1	bU	231	46% 51%
1	bV	231	44% 53%
1	bW	231	43% 55%
1	bX	231	46% 50%
1	bY	231	35% 62%
1	bZ	231	54% 44%
1	ba	231	40% 55% 5%
1	bb	231	42% 55%
1	bc	231	44% 52%
1	bd	231	45% 53%
1	be	231	49% 50%
1	bf	231	43% 55%
1	bg	231	42% 55%
1	bh	231	43% 55%
1	bi	231	41% 55%
1	bj	231	52% 47%
1	bk	231	45% 52%
1	bl	231	47% 48% 5%
1	bm	231	41% 54%
1	bn	231	41% 54% 5%
1	bo	231	44% 55%
1	bp	231	47% 50%
1	bq	231	42% 55%

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Mol	Chain	Length	Quality of chain
1	br	231	45% 51%
1	bs	231	49% 47%
1	bt	231	51% 46%
1	bu	231	42% 55%
1	bv	231	45% 51%
1	bw	231	41% 54% 5%
1	bx	231	43% 51% 6%
1	by	231	44% 54%
1	bz	231	42% 54%
1	c	231	44% 52%
1	c0	231	49% 47%
1	c1	231	45% 52%
1	c2	231	40% 57%
1	c3	231	42% 55%
1	c4	231	48% 46% 6%
1	c5	231	40% 56%
1	c6	231	47% 51%
1	c7	231	45% 51%
1	c8	231	43% 54%
1	c9	231	46% 51%
1	cA	231	47% 50%
1	cB	231	45% 51%
1	cC	231	45% 51%
1	cD	231	46% 50%
1	cE	231	44% 54%

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Mol	Chain	Length	Quality of chain
1	cF	231	45% 52%
1	cG	231	49% 48%
1	cH	231	46% 50%
1	cI	231	42% 55%
1	cJ	231	47% 50%
1	cK	231	42% 55%
1	cL	231	51% 45%
1	cM	231	45% 51%
1	cN	231	46% 51%
1	cO	231	43% 54%
1	cP	231	50% 49%
1	cQ	231	42% 54%
1	cR	231	45% 52%
1	cS	231	48% 49%
1	cT	231	51% 43% 6%
1	cU	231	40% 57%
1	cV	231	52% 45%
1	cW	231	43% 54%
1	cX	231	49% 48%
1	cY	231	45% 51%
1	cZ	231	44% 53%
1	ca	231	40% 56%
1	cb	231	43% 54%
1	cc	231	46% 52%
1	cd	231	44% 54%

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Mol	Chain	Length	Quality of chain
1	ce	231	42% 56%
1	cf	231	42% 55%
1	cg	231	39% 58%
1	ch	231	45% 53%
1	ci	231	44% 52%
1	cj	231	47% 50%
1	ck	231	45% 52%
1	cl	231	45% 55%
1	cm	231	45% 54%
1	cn	231	47% 51%
1	co	231	47% 52%
1	cp	231	40% 57%
1	cq	231	41% 55%
1	cr	231	47% 50%
1	cs	231	42% 54% 5%
1	ct	231	45% 52%
1	cu	231	45% 50% 5%
1	cv	231	43% 53%
1	cw	231	44% 54%
1	cx	231	48% 48%
1	cy	231	41% 55%
1	cz	231	45% 53%
1	d	231	44% 55%
1	d0	231	39% 59%
1	d1	231	47% 50%

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Mol	Chain	Length	Quality of chain
1	d2	231	43% 53%
1	d3	231	42% 56%
1	d4	231	45% 52%
1	d5	231	47% 51%
1	d6	231	45% 51%
1	d7	231	46% 52%
1	d8	231	42% 55%
1	d9	231	42% 52% 5%
1	dA	231	46% 49%
1	dB	231	45% 51%
1	dC	231	39% 56%
1	dD	231	47% 52%
1	dE	231	49% 47%
1	dF	231	43% 54%
1	dG	231	44% 54%
1	dH	231	48% 51%
1	dI	231	48% 50%
1	dJ	231	43% 54%
1	dK	231	47% 49%
1	dL	231	40% 59%
1	dM	231	45% 53%
1	dN	231	50% 47%
1	dO	231	45% 52%
1	dP	231	50% 48%
1	dQ	231	42% 55%

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Mol	Chain	Length	Quality of chain
1	dR	231	40% 58%
1	dS	231	52% 45%
1	dT	231	46% 51%
1	dU	231	46% 49%
1	dV	231	49% 48%
1	dW	231	45% 51% 5%
1	dX	231	44% 54%
1	dY	231	49% 46%
1	dZ	231	50% 48%
1	da	231	46% 52%
1	db	231	45% 53%
1	dc	231	40% 57%
1	dd	231	40% 58%
1	de	231	43% 54%
1	df	231	47% 50%
1	dg	231	48% 48%
1	dh	231	48% 48%
1	di	231	51% 46%
1	dj	231	42% 52% 5%
1	dk	231	47% 52%
1	dl	231	49% 48%
1	dm	231	45% 51%
1	dn	231	39% 57%
1	do	231	43% 55%
1	dp	231	42% 58%

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Mol	Chain	Length	Quality of chain
1	dq	231	48% 52%
1	dr	231	47% 52%
1	ds	231	44% 56%
1	dt	231	48% 48%
1	du	231	51% 47%
1	dv	231	41% 57%
1	dw	231	40% 54% 6%
1	dx	231	39% 58%
1	dy	231	45% 52%
1	dz	231	45% 50% 5%
1	e	231	44% 52%
1	e0	231	43% 54%
1	e1	231	45% 53%
1	e2	231	44% 55%
1	e3	231	46% 51%
1	e4	231	46% 51%
1	e5	231	45% 53%
1	e6	231	47% 49%
1	e7	231	48% 49%
1	e8	231	39% 59%
1	e9	231	51% 47%
1	eA	231	44% 52%
1	eB	231	43% 53%
1	eC	231	43% 52%
1	eD	231	48% 50%

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Mol	Chain	Length	Quality of chain
1	eE	231	43% 53%
1	eF	231	47% 51%
1	eG	231	48% 51%
1	eH	231	43% 55%
1	eI	231	41% 56%
1	eJ	231	47% 48%
1	eK	231	40% 55% 5%
1	eL	231	45% 52%
1	eM	231	39% 56% 5%
1	eN	231	50% 46%
1	eO	231	45% 53%
1	eP	231	40% 56%
1	eQ	231	51% 46%
1	eR	231	48% 50%
1	eS	231	42% 53%
1	eT	231	46% 52%
1	eU	231	43% 54%
1	eV	231	48% 48%
1	eW	231	46% 51%
1	eX	231	43% 55%
1	eY	231	46% 51%
1	eZ	231	39% 59%
1	ea	231	46% 51%
1	eb	231	47% 51%
1	ec	231	47% 50%

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Mol	Chain	Length	Quality of chain
1	ed	231	47% 52%
1	ee	231	48% 49%
1	ef	231	43% 53%
1	eg	231	48% 52%
1	eh	231	42% 55%
1	ei	231	46% 52%
1	ej	231	43% 54%
1	ek	231	45% 52%
1	el	231	46% 50%
1	em	231	43% 55%
1	en	231	46% 48% 5%
1	eo	231	44% 51% 6%
1	ep	231	45% 52%
1	eq	231	45% 53%
1	er	231	42% 55%
1	es	231	38% 59%
1	et	231	43% 52% 5%
1	eu	231	44% 54%
1	ev	231	47% 49%
1	ew	231	48% 48%
1	ex	231	48% 48%
1	ey	231	46% 50%
1	ez	231	52% 46%
1	f	231	45% 51%
1	f0	231	48% 51%

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Mol	Chain	Length	Quality of chain
1	f1	231	46% 51%
1	f2	231	42% 55%
1	f3	231	47% 50%
1	f4	231	49% 48%
1	f5	231	45% 52%
1	f6	231	40% 57%
1	f7	231	39% 55% 6%
1	f8	231	48% 47% 5%
1	f9	231	49% 49%
1	fA	231	42% 53% 5%
1	fB	231	48% 50%
1	fC	231	46% 50%
1	fD	231	48% 51%
1	fE	231	44% 52%
1	fF	231	47% 48% 5%
1	fG	231	49% 49%
1	fH	231	55% 42%
1	fI	231	44% 55%
1	fJ	231	47% 50%
1	fK	231	46% 53%
1	fL	231	44% 53%
1	fM	231	47% 52%
1	fN	231	46% 51%
1	fO	231	45% 52%
1	fP	231	42% 54%

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Mol	Chain	Length	Quality of chain
1	fQ	231	42% 57%
1	fR	231	45% 52%
1	fS	231	47% 49%
1	fT	231	40% 59%
1	fU	231	44% 52%
1	fV	231	45% 54%
1	fW	231	42% 56%
1	fX	231	53% 46%
1	fY	231	44% 53%
1	fZ	231	44% 53%
1	fa	231	44% 54%
1	fb	231	53% 44%
1	fc	231	42% 55%
1	fd	231	47% 50%
1	fe	231	50% 48%
1	ff	231	45% 53%
1	fg	231	48% 51%
1	fh	231	46% 51%
1	fi	231	42% 57%
1	fj	231	48% 48% 5%
1	fk	231	50% 45% 5%
1	fl	231	39% 59%
1	fm	231	45% 52%
1	fn	231	43% 54%
1	fo	231	43% 54%

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Mol	Chain	Length	Quality of chain
1	fp	231	42% 56%
1	fq	231	43% 53%
1	fr	231	45% 54%
1	fs	231	45% 51%
1	ft	231	49% 47%
1	fu	231	47% 49%
1	fv	231	49% 48%
1	fw	231	50% 46%
1	fx	231	53% 44%
1	fy	231	48% 48%
1	fz	231	42% 55%
1	g	231	39% 58%
1	g0	231	46% 50%
1	g1	231	47% 50%
1	g2	231	46% 49%
1	g3	231	45% 50%
1	g4	231	46% 51%
1	g5	231	44% 52%
1	g6	231	44% 52%
1	g7	231	46% 51%
1	g8	231	45% 54%
1	g9	231	41% 57%
1	gA	231	43% 55%
1	gB	231	40% 58%
1	gC	231	46% 52%

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Mol	Chain	Length	Quality of chain
1	gD	231	45% 52%
1	gE	231	44% 52% 5%
1	gF	231	43% 55%
1	gG	231	44% 53%
1	gH	231	41% 55%
1	gI	231	45% 53%
1	gJ	231	51% 46%
1	gK	231	53% 45%
1	gL	231	44% 52% 5%
1	gM	231	42% 54%
1	gN	231	46% 53%
1	gO	231	41% 55%
1	gP	231	48% 48%
1	gQ	231	48% 52%
1	gR	231	48% 49%
1	gS	231	41% 55%
1	gT	231	48% 49%
1	gU	231	44% 52%
1	gV	231	47% 52%
1	gW	231	43% 53%
1	gX	231	43% 52% 5%
1	gY	231	49% 47%
1	gZ	231	48% 50%
1	ga	231	44% 52%
1	gb	231	48% 49%

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Mol	Chain	Length	Quality of chain
1	gc	231	48% 49%
1	gd	231	46% 50%
1	ge	231	49% 47%
1	gf	231	45% 52%
1	gg	231	45% 50% 5%
1	gh	231	46% 51%
1	gi	231	44% 54%
1	gj	231	45% 53%
1	gk	231	49% 49%
1	gl	231	40% 57%
1	gm	231	42% 55%
1	gn	231	42% 55%
1	go	231	48% 48%
1	gp	231	45% 52%
1	gq	231	45% 53%
1	gr	231	45% 53%
1	gs	231	43% 55%
1	gt	231	43% 54%
1	gu	231	41% 57%
1	gv	231	44% 53%
1	gw	231	45% 51%
1	gx	231	49% 45% 5%
1	gy	231	42% 56%
1	gz	231	44% 53%
1	h	231	45% 52%

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Mol	Chain	Length	Quality of chain
1	h0	231	43% 53%
1	h1	231	40% 57%
1	h2	231	39% 58%
1	h3	231	36% 58% 6%
1	h4	231	46% 50%
1	h5	231	42% 53% 5%
1	h6	231	44% 53%
1	h7	231	48% 52%
1	h8	231	48% 50%
1	h9	231	41% 55%
1	hA	231	46% 51%
1	hB	231	49% 50%
1	hC	231	40% 56%
1	hD	231	45% 50% 5%
1	hE	231	47% 51%
1	hF	231	46% 50%
1	hG	231	42% 55%
1	hH	231	52% 46%
1	hI	231	44% 53%
1	hJ	231	47% 51%
1	hK	231	43% 52% 5%
1	hL	231	46% 50%
1	hM	231	45% 48% 7%
1	hN	231	46% 51%
1	hO	231	48% 48%

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Mol	Chain	Length	Quality of chain
1	hP	231	43% 55%
1	hQ	231	46% 53%
1	hR	231	41% 55%
1	hS	231	46% 52%
1	hT	231	45% 51%
1	hU	231	48% 48%
1	hV	231	46% 51%
1	hW	231	46% 48% 5%
1	hX	231	47% 48% 5%
1	hY	231	42% 53% 6%
1	hZ	231	42% 54%
1	ha	231	43% 54%
1	hb	231	50% 46%
1	hc	231	46% 50%
1	hd	231	52% 45%
1	he	231	49% 46% 5%
1	hf	231	42% 54%
1	hg	231	42% 53% 5%
1	hh	231	39% 59%
1	hi	231	42% 55%
1	hj	231	44% 50% 6%
1	hk	231	47% 52%
1	hl	231	46% 53%
1	hm	231	47% 52%
1	hn	231	40% 58%

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Mol	Chain	Length	Quality of chain
1	ho	231	45% 51%
1	hp	231	42% 54%
1	hq	231	48% 46% 6%
1	hr	231	42% 53%
1	hs	231	43% 51% 5%
1	ht	231	41% 56%
1	hu	231	45% 52%
1	hv	231	48% 50%
1	hw	231	50% 49%
1	hx	231	47% 48% 6%
1	hy	231	40% 57%
1	hz	231	45% 51%
1	i	231	45% 52%
1	i0	231	45% 52%
1	i1	231	42% 55%
1	i2	231	48% 46% 6%
1	i3	231	45% 52%
1	i4	231	45% 51%
1	i5	231	46% 51%
1	i6	231	45% 53%
1	i7	231	43% 53%
1	i8	231	41% 57%
1	i9	231	40% 57%
1	iA	231	48% 49%
1	iB	231	48% 51%

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Mol	Chain	Length	Quality of chain
1	iC	231	48% 49%
1	iD	231	45% 52%
1	iE	231	42% 54%
1	iF	231	43% 51% 6%
1	iG	231	41% 56%
1	iH	231	47% 49%
1	iI	231	48% 50%
1	iJ	231	43% 51% 6%
1	iK	231	47% 51%
1	iL	231	46% 52%
1	iM	231	44% 53%
1	iN	231	41% 55%
1	iO	231	48% 48%
1	iP	231	42% 56%
1	iQ	231	44% 55%
1	iR	231	43% 53%
1	iS	231	47% 48% 6%
1	iT	231	42% 55%
1	iU	231	45% 54%
1	iV	231	45% 52%
1	iW	231	41% 55%
1	iX	231	40% 57%
1	iY	231	45% 51%
1	iZ	231	48% 50%
1	ia	231	42% 55%

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Mol	Chain	Length	Quality of chain
1	ib	231	43% 53% .
1	ic	231	45% 52% .
1	id	231	46% 51% .
1	ie	231	48% 48% .
1	if	231	44% 54% .
1	ig	231	48% 48% .
1	ih	231	42% 53% 5%
1	ii	231	41% 54% 5%
1	ij	231	44% 51% 5%
1	ik	231	48% 48% .
1	il	231	39% 57% 5%
1	im	231	43% 53% .
1	in	231	44% 52% .
1	io	231	44% 53% .
1	ip	231	44% 52% .
1	iq	231	51% 46% .
1	ir	231	46% 51% .
1	is	231	51% 47% .
1	it	231	39% 57% .
1	iu	231	43% 54% .
1	iv	231	48% 47% 5%
1	iw	231	48% 50% .
1	ix	231	43% 54% .
1	iy	231	46% 50% .
1	iz	231	43% 54% .

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Mol	Chain	Length	Quality of chain
1	j	231	45% 54%
1	j0	231	41% 56%
1	j1	231	45% 52%
1	j2	231	42% 55%
1	j3	231	42% 56%
1	j4	231	43% 53%
1	j5	231	43% 53%
1	j6	231	44% 52%
1	j7	231	44% 53%
1	j8	231	45% 52%
1	j9	231	43% 54%
1	jA	231	53% 44%
1	jB	231	42% 51% 6%
1	jC	231	45% 52%
1	jD	231	42% 55%
1	jE	231	41% 55%
1	jF	231	41% 55%
1	jG	231	49% 47%
1	jH	231	51% 46%
1	jI	231	46% 52%
1	jJ	231	46% 52%
1	jK	231	41% 55%
1	jL	231	48% 49%
1	jM	231	39% 57%
1	jN	231	44% 53%

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Mol	Chain	Length	Quality of chain
1	jO	231	42% 55%
1	jP	231	46% 51%
1	jQ	231	42% 56%
1	jR	231	44% 54%
1	jS	231	45% 51%
1	jT	231	46% 52%
1	jU	231	44% 55%
1	jV	231	44% 52%
1	jW	231	46% 52%
1	jX	231	45% 54%
1	jY	231	47% 49%
1	jZ	231	48% 47% 6%
1	ja	231	48% 50%
1	jb	231	40% 54% 6%
1	jc	231	39% 58%
1	jd	231	48% 48%
1	je	231	43% 53%
1	jf	231	47% 50%
1	jg	231	40% 55% 5%
1	jh	231	44% 53%
1	ji	231	45% 52%
1	jj	231	46% 50%
1	jk	231	47% 51%
1	jl	231	43% 54%
1	jm	231	42% 53%

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Mol	Chain	Length	Quality of chain
1	jn	231	48% 48%
1	jo	231	46% 51%
1	jp	231	40% 56%
1	jq	231	47% 50%
1	jr	231	48% 49%
1	js	231	42% 55%
1	jt	231	41% 56%
1	ju	231	42% 52% 6%
1	jv	231	43% 55%
1	jw	231	45% 51%
1	jx	231	45% 52%
1	jy	231	43% 53%
1	jz	231	45% 52%
1	k	231	40% 57%
1	k0	231	42% 52% 6%
1	k1	231	47% 48% 5%
1	k2	231	45% 53%
1	k3	231	48% 49%
1	k4	231	33% 62%
1	k5	231	51% 45%
1	k6	231	42% 56%
1	k7	231	42% 55%
1	k8	231	51% 46%
1	k9	231	37% 58% 5%
1	kA	231	46% 50%

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Mol	Chain	Length	Quality of chain
1	kB	231	50% 47%
1	kC	231	40% 57%
1	kD	231	47% 50%
1	kE	231	45% 53%
1	kF	231	40% 58%
1	kG	231	54% 42%
1	kH	231	41% 57%
1	kI	231	44% 55%
1	kJ	231	44% 52%
1	kK	231	48% 49%
1	kL	231	44% 54%
1	kM	231	48% 50%
1	kN	231	43% 55%
1	kO	231	46% 49% 5%
1	kP	231	44% 53%
1	kQ	231	46% 52%
1	kR	231	41% 55%
1	kS	231	48% 49%
1	kT	231	45% 52%
1	kU	231	50% 46%
1	kV	231	43% 55%
1	kW	231	48% 48%
1	kX	231	46% 51%
1	kY	231	45% 52%
1	kZ	231	46% 52%

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Mol	Chain	Length	Quality of chain
1	ka	231	44% 52%
1	kb	231	45% 51%
1	kc	231	48% 48%
1	kd	231	46% 51%
1	ke	231	52% 47%
1	kf	231	47% 51%
1	kg	231	43% 56%
1	kh	231	52% 46%
1	ki	231	44% 52%
1	kj	231	49% 50%
1	kk	231	43% 53%
1	kl	231	45% 52%
1	km	231	45% 52%
1	kn	231	49% 47%
1	ko	231	42% 55%
1	kp	231	49% 46%
1	kq	231	47% 50%
1	kr	231	48% 48%
1	ks	231	49% 48%
1	kt	231	45% 52%
1	ku	231	45% 52%
1	kv	231	40% 56%
1	kw	231	49% 47%
1	kx	231	40% 57%
1	ky	231	42% 54%

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Mol	Chain	Length	Quality of chain
1	kz	231	44% 52%
1	l	231	48% 48%
1	l0	231	44% 52%
1	l1	231	45% 52%
1	l2	231	48% 49%
1	l3	231	43% 51% 6%
1	l4	231	42% 54%
1	l5	231	50% 48%
1	l6	231	47% 51%
1	l7	231	45% 52%
1	l8	231	45% 52%
1	l9	231	42% 56%
1	lA	231	41% 55%
1	lB	231	48% 50%
1	lC	231	40% 56%
1	lD	231	45% 51%
1	lE	231	42% 55%
1	lF	231	42% 53% 6%
1	lG	231	41% 58%
1	lH	231	44% 53%
1	lI	231	46% 50%
1	lJ	231	50% 48%
1	lK	231	41% 56%
1	lL	231	42% 57%
1	lM	231	45% 52%

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Mol	Chain	Length	Quality of chain
1	lN	231	41% 53% 6%
1	lO	231	45% 52%
1	lP	231	45% 52%
1	lQ	231	45% 52%
1	lR	231	48% 50%
1	la	231	45% 51%
1	lb	231	46% 52%
1	lc	231	48% 50%
1	ld	231	44% 54%
1	le	231	46% 51%
1	lf	231	42% 55%
1	lg	231	47% 52%
1	lh	231	38% 58%
1	li	231	41% 57%
1	lj	231	36% 62%
1	lk	231	49% 48%
1	ll	231	40% 55% 5%
1	lm	231	45% 55%
1	ln	231	42% 53% 5%
1	lo	231	48% 50%
1	lp	231	51% 46%
1	lq	231	46% 52%
1	lr	231	49% 47%
1	ls	231	45% 53%
1	lt	231	39% 58%

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Mol	Chain	Length	Quality of chain
1	lu	231	44% 54%
1	lv	231	46% 50%
1	lw	231	46% 52%
1	lx	231	51% 46%
1	ly	231	42% 54% 5%
1	lz	231	44% 54%
1	m	231	47% 48%
1	n	231	52% 45%
1	o	231	41% 56%
1	p	231	47% 52%
1	q	231	49% 48%
1	r	231	43% 54%
1	s	231	44% 53%
1	t	231	48% 47%
1	u	231	45% 54%
1	v	231	41% 59%
1	w	231	49% 49%
1	x	231	45% 51%
1	y	231	42% 56%
1	z	231	45% 52%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 2440800 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called capsid protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	g8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ga	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ge	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gi	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	go	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gs	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	gH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	gZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	h0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ha	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	he	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hi	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ho	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hs	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ht	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	hV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	hZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ia	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ib	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ic	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	id	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ie	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	if	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ig	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ih	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ii	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ij	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ik	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	il	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	im	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	in	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	io	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ip	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ir	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	is	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	it	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ix	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	1Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	iR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	iZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ja	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	je	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ji	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jo	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	js	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	jt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ju	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	jM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	jZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	k5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	20	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ka	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ke	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ki	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	21	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	km	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ko	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ks	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	22	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ku	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ky	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	23	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	kH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	24	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	25	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	kZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	l0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	26	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	la	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ld	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	le	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	27	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	li	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	lj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ll	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ln	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lo	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	28	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ls	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ly	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	29	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	lC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	lR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	2V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	30	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	31	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	32	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	33	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	34	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	35	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	36	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	37	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	38	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	39	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	3W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	40	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	41	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	42	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	43	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	44	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	45	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	46	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	47	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	48	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	49	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	4Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	50	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	51	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	52	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	53	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	54	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	55	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	56	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	57	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	58	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	59	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	5i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	5D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	5Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	60	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	61	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	62	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	63	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	64	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	65	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	66	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	67	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	68	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	69	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	6j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	6E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	6Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	70	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	71	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	72	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	73	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	74	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	75	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	76	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	77	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	78	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	79	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	7F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	80	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	81	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	82	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	83	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	84	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	85	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	86	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	87	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	88	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	89	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	8G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	90	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	91	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	92	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	93	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	94	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	95	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	96	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	97	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	98	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	99	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	9m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	9H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9Y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	Z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	a0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	10	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aa	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ab	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ac	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ad	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ae	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	af	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ag	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ah	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ai	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	11	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ak	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	al	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	am	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	an	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ao	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ap	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ar	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	as	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	at	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	12	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	au	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	av	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ax	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ay	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	az	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	aD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	13	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	14	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	aW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	15	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	aZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	16	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	b9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ba	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	be	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	bf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	17	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bi	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bo	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	br	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	18	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bs	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	by	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	19	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	bR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	bZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ca	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ce	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cf	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ch	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ci	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ck	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	co	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cs	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ct	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	cM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	cZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	d5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	da	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	db	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	de	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	df	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	di	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	do	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ds	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dt	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	du	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	1m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	dZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	e1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ea	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ec	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ed	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ee	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ef	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ei	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ej	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ek	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	el	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	em	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	en	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eo	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ep	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	er	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	es	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	et	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ev	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ew	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ex	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ey	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ez	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	eD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	eW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	eZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fa	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fb	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fc	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fd	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fe	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	ff	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fg	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fh	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fi	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fj	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fk	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fl	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fm	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fn	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fo	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fp	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fq	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fr	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fs	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	ft	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fu	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fv	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fw	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fx	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	fy	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fz	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fA	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fB	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fC	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fD	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fE	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fF	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fG	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fH	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fI	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fJ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fK	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fL	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fM	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fN	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fO	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fP	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fQ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	fR	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fS	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fT	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fU	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fV	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fW	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fX	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fY	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	fZ	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	0	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	a	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	b	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	c	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	d	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	e	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	f	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	g	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	h	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	i	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	j	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	1	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	k	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	l	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	m	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	n	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	o	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	p	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	r	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	s	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	t	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	2	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	u	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	v	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	w	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	x	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	y	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	z	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	A	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	B	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	C	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	D	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	3	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	E	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	F	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	G	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	H	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	I	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	J	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	K	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	L	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	M	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	N	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	4	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	O	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	P	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	Q	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	R	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	S	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	T	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	U	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	V	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	W	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	X	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	5	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	6	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	7	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	8	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		
1	9	231	Total	C	N	O	S	0	0
			1800	1134	317	336	13		

There are 1356 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
g8	92	GLU	ALA	engineered mutation	UNP Q79791
g9	92	GLU	ALA	engineered mutation	UNP Q79791
ga	92	GLU	ALA	engineered mutation	UNP Q79791
gb	92	GLU	ALA	engineered mutation	UNP Q79791
gc	92	GLU	ALA	engineered mutation	UNP Q79791
gd	92	GLU	ALA	engineered mutation	UNP Q79791
ge	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
gf	92	GLU	ALA	engineered mutation	UNP Q79791
gg	92	GLU	ALA	engineered mutation	UNP Q79791
gh	92	GLU	ALA	engineered mutation	UNP Q79791
1C	92	GLU	ALA	engineered mutation	UNP Q79791
gi	92	GLU	ALA	engineered mutation	UNP Q79791
gj	92	GLU	ALA	engineered mutation	UNP Q79791
gk	92	GLU	ALA	engineered mutation	UNP Q79791
gl	92	GLU	ALA	engineered mutation	UNP Q79791
gm	92	GLU	ALA	engineered mutation	UNP Q79791
gn	92	GLU	ALA	engineered mutation	UNP Q79791
go	92	GLU	ALA	engineered mutation	UNP Q79791
gp	92	GLU	ALA	engineered mutation	UNP Q79791
gq	92	GLU	ALA	engineered mutation	UNP Q79791
gr	92	GLU	ALA	engineered mutation	UNP Q79791
1D	92	GLU	ALA	engineered mutation	UNP Q79791
gs	92	GLU	ALA	engineered mutation	UNP Q79791
gt	92	GLU	ALA	engineered mutation	UNP Q79791
gu	92	GLU	ALA	engineered mutation	UNP Q79791
gv	92	GLU	ALA	engineered mutation	UNP Q79791
gw	92	GLU	ALA	engineered mutation	UNP Q79791
gx	92	GLU	ALA	engineered mutation	UNP Q79791
gy	92	GLU	ALA	engineered mutation	UNP Q79791
gz	92	GLU	ALA	engineered mutation	UNP Q79791
gA	92	GLU	ALA	engineered mutation	UNP Q79791
gB	92	GLU	ALA	engineered mutation	UNP Q79791
1E	92	GLU	ALA	engineered mutation	UNP Q79791
gC	92	GLU	ALA	engineered mutation	UNP Q79791
gD	92	GLU	ALA	engineered mutation	UNP Q79791
gE	92	GLU	ALA	engineered mutation	UNP Q79791
gF	92	GLU	ALA	engineered mutation	UNP Q79791
gG	92	GLU	ALA	engineered mutation	UNP Q79791
gH	92	GLU	ALA	engineered mutation	UNP Q79791
gI	92	GLU	ALA	engineered mutation	UNP Q79791
gJ	92	GLU	ALA	engineered mutation	UNP Q79791
gK	92	GLU	ALA	engineered mutation	UNP Q79791
gL	92	GLU	ALA	engineered mutation	UNP Q79791
1F	92	GLU	ALA	engineered mutation	UNP Q79791
gM	92	GLU	ALA	engineered mutation	UNP Q79791
gN	92	GLU	ALA	engineered mutation	UNP Q79791
gO	92	GLU	ALA	engineered mutation	UNP Q79791
gP	92	GLU	ALA	engineered mutation	UNP Q79791
gQ	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
gR	92	GLU	ALA	engineered mutation	UNP Q79791
gS	92	GLU	ALA	engineered mutation	UNP Q79791
gT	92	GLU	ALA	engineered mutation	UNP Q79791
gU	92	GLU	ALA	engineered mutation	UNP Q79791
gV	92	GLU	ALA	engineered mutation	UNP Q79791
1G	92	GLU	ALA	engineered mutation	UNP Q79791
gW	92	GLU	ALA	engineered mutation	UNP Q79791
gX	92	GLU	ALA	engineered mutation	UNP Q79791
gY	92	GLU	ALA	engineered mutation	UNP Q79791
gZ	92	GLU	ALA	engineered mutation	UNP Q79791
h0	92	GLU	ALA	engineered mutation	UNP Q79791
h1	92	GLU	ALA	engineered mutation	UNP Q79791
h2	92	GLU	ALA	engineered mutation	UNP Q79791
h3	92	GLU	ALA	engineered mutation	UNP Q79791
h4	92	GLU	ALA	engineered mutation	UNP Q79791
h5	92	GLU	ALA	engineered mutation	UNP Q79791
1H	92	GLU	ALA	engineered mutation	UNP Q79791
h6	92	GLU	ALA	engineered mutation	UNP Q79791
h7	92	GLU	ALA	engineered mutation	UNP Q79791
h8	92	GLU	ALA	engineered mutation	UNP Q79791
h9	92	GLU	ALA	engineered mutation	UNP Q79791
ha	92	GLU	ALA	engineered mutation	UNP Q79791
hb	92	GLU	ALA	engineered mutation	UNP Q79791
hc	92	GLU	ALA	engineered mutation	UNP Q79791
hd	92	GLU	ALA	engineered mutation	UNP Q79791
he	92	GLU	ALA	engineered mutation	UNP Q79791
hf	92	GLU	ALA	engineered mutation	UNP Q79791
1I	92	GLU	ALA	engineered mutation	UNP Q79791
hg	92	GLU	ALA	engineered mutation	UNP Q79791
hh	92	GLU	ALA	engineered mutation	UNP Q79791
hi	92	GLU	ALA	engineered mutation	UNP Q79791
hj	92	GLU	ALA	engineered mutation	UNP Q79791
hk	92	GLU	ALA	engineered mutation	UNP Q79791
hl	92	GLU	ALA	engineered mutation	UNP Q79791
hm	92	GLU	ALA	engineered mutation	UNP Q79791
hn	92	GLU	ALA	engineered mutation	UNP Q79791
ho	92	GLU	ALA	engineered mutation	UNP Q79791
hp	92	GLU	ALA	engineered mutation	UNP Q79791
1J	92	GLU	ALA	engineered mutation	UNP Q79791
hq	92	GLU	ALA	engineered mutation	UNP Q79791
hr	92	GLU	ALA	engineered mutation	UNP Q79791
hs	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
ht	92	GLU	ALA	engineered mutation	UNP Q79791
hu	92	GLU	ALA	engineered mutation	UNP Q79791
hv	92	GLU	ALA	engineered mutation	UNP Q79791
hw	92	GLU	ALA	engineered mutation	UNP Q79791
hx	92	GLU	ALA	engineered mutation	UNP Q79791
hy	92	GLU	ALA	engineered mutation	UNP Q79791
hz	92	GLU	ALA	engineered mutation	UNP Q79791
1K	92	GLU	ALA	engineered mutation	UNP Q79791
hA	92	GLU	ALA	engineered mutation	UNP Q79791
hB	92	GLU	ALA	engineered mutation	UNP Q79791
hC	92	GLU	ALA	engineered mutation	UNP Q79791
hD	92	GLU	ALA	engineered mutation	UNP Q79791
hE	92	GLU	ALA	engineered mutation	UNP Q79791
hF	92	GLU	ALA	engineered mutation	UNP Q79791
hG	92	GLU	ALA	engineered mutation	UNP Q79791
hH	92	GLU	ALA	engineered mutation	UNP Q79791
hI	92	GLU	ALA	engineered mutation	UNP Q79791
hJ	92	GLU	ALA	engineered mutation	UNP Q79791
1L	92	GLU	ALA	engineered mutation	UNP Q79791
hK	92	GLU	ALA	engineered mutation	UNP Q79791
hL	92	GLU	ALA	engineered mutation	UNP Q79791
hM	92	GLU	ALA	engineered mutation	UNP Q79791
hN	92	GLU	ALA	engineered mutation	UNP Q79791
hO	92	GLU	ALA	engineered mutation	UNP Q79791
hP	92	GLU	ALA	engineered mutation	UNP Q79791
hQ	92	GLU	ALA	engineered mutation	UNP Q79791
hR	92	GLU	ALA	engineered mutation	UNP Q79791
hS	92	GLU	ALA	engineered mutation	UNP Q79791
hT	92	GLU	ALA	engineered mutation	UNP Q79791
1M	92	GLU	ALA	engineered mutation	UNP Q79791
hU	92	GLU	ALA	engineered mutation	UNP Q79791
hV	92	GLU	ALA	engineered mutation	UNP Q79791
hW	92	GLU	ALA	engineered mutation	UNP Q79791
hX	92	GLU	ALA	engineered mutation	UNP Q79791
hY	92	GLU	ALA	engineered mutation	UNP Q79791
hZ	92	GLU	ALA	engineered mutation	UNP Q79791
i0	92	GLU	ALA	engineered mutation	UNP Q79791
i1	92	GLU	ALA	engineered mutation	UNP Q79791
i2	92	GLU	ALA	engineered mutation	UNP Q79791
i3	92	GLU	ALA	engineered mutation	UNP Q79791
1N	92	GLU	ALA	engineered mutation	UNP Q79791
i4	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
i5	92	GLU	ALA	engineered mutation	UNP Q79791
i6	92	GLU	ALA	engineered mutation	UNP Q79791
i7	92	GLU	ALA	engineered mutation	UNP Q79791
i8	92	GLU	ALA	engineered mutation	UNP Q79791
i9	92	GLU	ALA	engineered mutation	UNP Q79791
ia	92	GLU	ALA	engineered mutation	UNP Q79791
ib	92	GLU	ALA	engineered mutation	UNP Q79791
ic	92	GLU	ALA	engineered mutation	UNP Q79791
id	92	GLU	ALA	engineered mutation	UNP Q79791
1O	92	GLU	ALA	engineered mutation	UNP Q79791
ie	92	GLU	ALA	engineered mutation	UNP Q79791
if	92	GLU	ALA	engineered mutation	UNP Q79791
ig	92	GLU	ALA	engineered mutation	UNP Q79791
ih	92	GLU	ALA	engineered mutation	UNP Q79791
ii	92	GLU	ALA	engineered mutation	UNP Q79791
ij	92	GLU	ALA	engineered mutation	UNP Q79791
ik	92	GLU	ALA	engineered mutation	UNP Q79791
il	92	GLU	ALA	engineered mutation	UNP Q79791
im	92	GLU	ALA	engineered mutation	UNP Q79791
in	92	GLU	ALA	engineered mutation	UNP Q79791
1P	92	GLU	ALA	engineered mutation	UNP Q79791
io	92	GLU	ALA	engineered mutation	UNP Q79791
ip	92	GLU	ALA	engineered mutation	UNP Q79791
iq	92	GLU	ALA	engineered mutation	UNP Q79791
ir	92	GLU	ALA	engineered mutation	UNP Q79791
is	92	GLU	ALA	engineered mutation	UNP Q79791
it	92	GLU	ALA	engineered mutation	UNP Q79791
iu	92	GLU	ALA	engineered mutation	UNP Q79791
iv	92	GLU	ALA	engineered mutation	UNP Q79791
iw	92	GLU	ALA	engineered mutation	UNP Q79791
ix	92	GLU	ALA	engineered mutation	UNP Q79791
1Q	92	GLU	ALA	engineered mutation	UNP Q79791
iy	92	GLU	ALA	engineered mutation	UNP Q79791
iz	92	GLU	ALA	engineered mutation	UNP Q79791
iA	92	GLU	ALA	engineered mutation	UNP Q79791
iB	92	GLU	ALA	engineered mutation	UNP Q79791
iC	92	GLU	ALA	engineered mutation	UNP Q79791
iD	92	GLU	ALA	engineered mutation	UNP Q79791
iE	92	GLU	ALA	engineered mutation	UNP Q79791
iF	92	GLU	ALA	engineered mutation	UNP Q79791
iG	92	GLU	ALA	engineered mutation	UNP Q79791
iH	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
1R	92	GLU	ALA	engineered mutation	UNP Q79791
iI	92	GLU	ALA	engineered mutation	UNP Q79791
iJ	92	GLU	ALA	engineered mutation	UNP Q79791
iK	92	GLU	ALA	engineered mutation	UNP Q79791
iL	92	GLU	ALA	engineered mutation	UNP Q79791
iM	92	GLU	ALA	engineered mutation	UNP Q79791
iN	92	GLU	ALA	engineered mutation	UNP Q79791
iO	92	GLU	ALA	engineered mutation	UNP Q79791
iP	92	GLU	ALA	engineered mutation	UNP Q79791
iQ	92	GLU	ALA	engineered mutation	UNP Q79791
iR	92	GLU	ALA	engineered mutation	UNP Q79791
1S	92	GLU	ALA	engineered mutation	UNP Q79791
iS	92	GLU	ALA	engineered mutation	UNP Q79791
iT	92	GLU	ALA	engineered mutation	UNP Q79791
iU	92	GLU	ALA	engineered mutation	UNP Q79791
iV	92	GLU	ALA	engineered mutation	UNP Q79791
iW	92	GLU	ALA	engineered mutation	UNP Q79791
iX	92	GLU	ALA	engineered mutation	UNP Q79791
iY	92	GLU	ALA	engineered mutation	UNP Q79791
iZ	92	GLU	ALA	engineered mutation	UNP Q79791
j0	92	GLU	ALA	engineered mutation	UNP Q79791
j1	92	GLU	ALA	engineered mutation	UNP Q79791
1T	92	GLU	ALA	engineered mutation	UNP Q79791
j2	92	GLU	ALA	engineered mutation	UNP Q79791
j3	92	GLU	ALA	engineered mutation	UNP Q79791
j4	92	GLU	ALA	engineered mutation	UNP Q79791
j5	92	GLU	ALA	engineered mutation	UNP Q79791
j6	92	GLU	ALA	engineered mutation	UNP Q79791
j7	92	GLU	ALA	engineered mutation	UNP Q79791
j8	92	GLU	ALA	engineered mutation	UNP Q79791
j9	92	GLU	ALA	engineered mutation	UNP Q79791
ja	92	GLU	ALA	engineered mutation	UNP Q79791
jb	92	GLU	ALA	engineered mutation	UNP Q79791
1U	92	GLU	ALA	engineered mutation	UNP Q79791
jc	92	GLU	ALA	engineered mutation	UNP Q79791
jd	92	GLU	ALA	engineered mutation	UNP Q79791
je	92	GLU	ALA	engineered mutation	UNP Q79791
jf	92	GLU	ALA	engineered mutation	UNP Q79791
jg	92	GLU	ALA	engineered mutation	UNP Q79791
jh	92	GLU	ALA	engineered mutation	UNP Q79791
ji	92	GLU	ALA	engineered mutation	UNP Q79791
jj	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
jk	92	GLU	ALA	engineered mutation	UNP Q79791
jl	92	GLU	ALA	engineered mutation	UNP Q79791
1V	92	GLU	ALA	engineered mutation	UNP Q79791
jm	92	GLU	ALA	engineered mutation	UNP Q79791
jn	92	GLU	ALA	engineered mutation	UNP Q79791
jo	92	GLU	ALA	engineered mutation	UNP Q79791
jp	92	GLU	ALA	engineered mutation	UNP Q79791
jq	92	GLU	ALA	engineered mutation	UNP Q79791
jr	92	GLU	ALA	engineered mutation	UNP Q79791
js	92	GLU	ALA	engineered mutation	UNP Q79791
jt	92	GLU	ALA	engineered mutation	UNP Q79791
ju	92	GLU	ALA	engineered mutation	UNP Q79791
jv	92	GLU	ALA	engineered mutation	UNP Q79791
1W	92	GLU	ALA	engineered mutation	UNP Q79791
jw	92	GLU	ALA	engineered mutation	UNP Q79791
jx	92	GLU	ALA	engineered mutation	UNP Q79791
jy	92	GLU	ALA	engineered mutation	UNP Q79791
jz	92	GLU	ALA	engineered mutation	UNP Q79791
jA	92	GLU	ALA	engineered mutation	UNP Q79791
jB	92	GLU	ALA	engineered mutation	UNP Q79791
jC	92	GLU	ALA	engineered mutation	UNP Q79791
jD	92	GLU	ALA	engineered mutation	UNP Q79791
jE	92	GLU	ALA	engineered mutation	UNP Q79791
jF	92	GLU	ALA	engineered mutation	UNP Q79791
1X	92	GLU	ALA	engineered mutation	UNP Q79791
jG	92	GLU	ALA	engineered mutation	UNP Q79791
jH	92	GLU	ALA	engineered mutation	UNP Q79791
jI	92	GLU	ALA	engineered mutation	UNP Q79791
jJ	92	GLU	ALA	engineered mutation	UNP Q79791
jK	92	GLU	ALA	engineered mutation	UNP Q79791
jL	92	GLU	ALA	engineered mutation	UNP Q79791
jM	92	GLU	ALA	engineered mutation	UNP Q79791
jN	92	GLU	ALA	engineered mutation	UNP Q79791
jO	92	GLU	ALA	engineered mutation	UNP Q79791
jP	92	GLU	ALA	engineered mutation	UNP Q79791
1Y	92	GLU	ALA	engineered mutation	UNP Q79791
jQ	92	GLU	ALA	engineered mutation	UNP Q79791
jR	92	GLU	ALA	engineered mutation	UNP Q79791
jS	92	GLU	ALA	engineered mutation	UNP Q79791
jT	92	GLU	ALA	engineered mutation	UNP Q79791
jU	92	GLU	ALA	engineered mutation	UNP Q79791
jV	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
jW	92	GLU	ALA	engineered mutation	UNP Q79791
jX	92	GLU	ALA	engineered mutation	UNP Q79791
jY	92	GLU	ALA	engineered mutation	UNP Q79791
jZ	92	GLU	ALA	engineered mutation	UNP Q79791
1Z	92	GLU	ALA	engineered mutation	UNP Q79791
k0	92	GLU	ALA	engineered mutation	UNP Q79791
k1	92	GLU	ALA	engineered mutation	UNP Q79791
k2	92	GLU	ALA	engineered mutation	UNP Q79791
k3	92	GLU	ALA	engineered mutation	UNP Q79791
k4	92	GLU	ALA	engineered mutation	UNP Q79791
k5	92	GLU	ALA	engineered mutation	UNP Q79791
k6	92	GLU	ALA	engineered mutation	UNP Q79791
k7	92	GLU	ALA	engineered mutation	UNP Q79791
k8	92	GLU	ALA	engineered mutation	UNP Q79791
k9	92	GLU	ALA	engineered mutation	UNP Q79791
20	92	GLU	ALA	engineered mutation	UNP Q79791
ka	92	GLU	ALA	engineered mutation	UNP Q79791
kb	92	GLU	ALA	engineered mutation	UNP Q79791
kc	92	GLU	ALA	engineered mutation	UNP Q79791
kd	92	GLU	ALA	engineered mutation	UNP Q79791
ke	92	GLU	ALA	engineered mutation	UNP Q79791
kf	92	GLU	ALA	engineered mutation	UNP Q79791
kg	92	GLU	ALA	engineered mutation	UNP Q79791
kh	92	GLU	ALA	engineered mutation	UNP Q79791
ki	92	GLU	ALA	engineered mutation	UNP Q79791
kj	92	GLU	ALA	engineered mutation	UNP Q79791
21	92	GLU	ALA	engineered mutation	UNP Q79791
kk	92	GLU	ALA	engineered mutation	UNP Q79791
kl	92	GLU	ALA	engineered mutation	UNP Q79791
km	92	GLU	ALA	engineered mutation	UNP Q79791
kn	92	GLU	ALA	engineered mutation	UNP Q79791
ko	92	GLU	ALA	engineered mutation	UNP Q79791
kp	92	GLU	ALA	engineered mutation	UNP Q79791
kq	92	GLU	ALA	engineered mutation	UNP Q79791
kr	92	GLU	ALA	engineered mutation	UNP Q79791
ks	92	GLU	ALA	engineered mutation	UNP Q79791
kt	92	GLU	ALA	engineered mutation	UNP Q79791
22	92	GLU	ALA	engineered mutation	UNP Q79791
ku	92	GLU	ALA	engineered mutation	UNP Q79791
kv	92	GLU	ALA	engineered mutation	UNP Q79791
kw	92	GLU	ALA	engineered mutation	UNP Q79791
kx	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
ky	92	GLU	ALA	engineered mutation	UNP Q79791
kz	92	GLU	ALA	engineered mutation	UNP Q79791
kA	92	GLU	ALA	engineered mutation	UNP Q79791
kB	92	GLU	ALA	engineered mutation	UNP Q79791
kC	92	GLU	ALA	engineered mutation	UNP Q79791
kD	92	GLU	ALA	engineered mutation	UNP Q79791
23	92	GLU	ALA	engineered mutation	UNP Q79791
kE	92	GLU	ALA	engineered mutation	UNP Q79791
kF	92	GLU	ALA	engineered mutation	UNP Q79791
kG	92	GLU	ALA	engineered mutation	UNP Q79791
kH	92	GLU	ALA	engineered mutation	UNP Q79791
kI	92	GLU	ALA	engineered mutation	UNP Q79791
kJ	92	GLU	ALA	engineered mutation	UNP Q79791
kK	92	GLU	ALA	engineered mutation	UNP Q79791
kL	92	GLU	ALA	engineered mutation	UNP Q79791
kM	92	GLU	ALA	engineered mutation	UNP Q79791
kN	92	GLU	ALA	engineered mutation	UNP Q79791
24	92	GLU	ALA	engineered mutation	UNP Q79791
kO	92	GLU	ALA	engineered mutation	UNP Q79791
kP	92	GLU	ALA	engineered mutation	UNP Q79791
kQ	92	GLU	ALA	engineered mutation	UNP Q79791
kR	92	GLU	ALA	engineered mutation	UNP Q79791
kS	92	GLU	ALA	engineered mutation	UNP Q79791
kT	92	GLU	ALA	engineered mutation	UNP Q79791
kU	92	GLU	ALA	engineered mutation	UNP Q79791
kV	92	GLU	ALA	engineered mutation	UNP Q79791
kW	92	GLU	ALA	engineered mutation	UNP Q79791
kX	92	GLU	ALA	engineered mutation	UNP Q79791
25	92	GLU	ALA	engineered mutation	UNP Q79791
kY	92	GLU	ALA	engineered mutation	UNP Q79791
kZ	92	GLU	ALA	engineered mutation	UNP Q79791
l0	92	GLU	ALA	engineered mutation	UNP Q79791
l1	92	GLU	ALA	engineered mutation	UNP Q79791
l2	92	GLU	ALA	engineered mutation	UNP Q79791
l3	92	GLU	ALA	engineered mutation	UNP Q79791
l4	92	GLU	ALA	engineered mutation	UNP Q79791
l5	92	GLU	ALA	engineered mutation	UNP Q79791
l6	92	GLU	ALA	engineered mutation	UNP Q79791
l7	92	GLU	ALA	engineered mutation	UNP Q79791
26	92	GLU	ALA	engineered mutation	UNP Q79791
l8	92	GLU	ALA	engineered mutation	UNP Q79791
l9	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
la	92	GLU	ALA	engineered mutation	UNP Q79791
lb	92	GLU	ALA	engineered mutation	UNP Q79791
lc	92	GLU	ALA	engineered mutation	UNP Q79791
ld	92	GLU	ALA	engineered mutation	UNP Q79791
le	92	GLU	ALA	engineered mutation	UNP Q79791
lf	92	GLU	ALA	engineered mutation	UNP Q79791
lg	92	GLU	ALA	engineered mutation	UNP Q79791
lh	92	GLU	ALA	engineered mutation	UNP Q79791
27	92	GLU	ALA	engineered mutation	UNP Q79791
li	92	GLU	ALA	engineered mutation	UNP Q79791
lj	92	GLU	ALA	engineered mutation	UNP Q79791
lk	92	GLU	ALA	engineered mutation	UNP Q79791
ll	92	GLU	ALA	engineered mutation	UNP Q79791
lm	92	GLU	ALA	engineered mutation	UNP Q79791
ln	92	GLU	ALA	engineered mutation	UNP Q79791
lo	92	GLU	ALA	engineered mutation	UNP Q79791
lp	92	GLU	ALA	engineered mutation	UNP Q79791
lq	92	GLU	ALA	engineered mutation	UNP Q79791
lr	92	GLU	ALA	engineered mutation	UNP Q79791
28	92	GLU	ALA	engineered mutation	UNP Q79791
ls	92	GLU	ALA	engineered mutation	UNP Q79791
lt	92	GLU	ALA	engineered mutation	UNP Q79791
lu	92	GLU	ALA	engineered mutation	UNP Q79791
lv	92	GLU	ALA	engineered mutation	UNP Q79791
lw	92	GLU	ALA	engineered mutation	UNP Q79791
lx	92	GLU	ALA	engineered mutation	UNP Q79791
ly	92	GLU	ALA	engineered mutation	UNP Q79791
lz	92	GLU	ALA	engineered mutation	UNP Q79791
lA	92	GLU	ALA	engineered mutation	UNP Q79791
lB	92	GLU	ALA	engineered mutation	UNP Q79791
29	92	GLU	ALA	engineered mutation	UNP Q79791
lC	92	GLU	ALA	engineered mutation	UNP Q79791
lD	92	GLU	ALA	engineered mutation	UNP Q79791
lE	92	GLU	ALA	engineered mutation	UNP Q79791
lF	92	GLU	ALA	engineered mutation	UNP Q79791
lG	92	GLU	ALA	engineered mutation	UNP Q79791
lH	92	GLU	ALA	engineered mutation	UNP Q79791
lI	92	GLU	ALA	engineered mutation	UNP Q79791
lJ	92	GLU	ALA	engineered mutation	UNP Q79791
lK	92	GLU	ALA	engineered mutation	UNP Q79791
lL	92	GLU	ALA	engineered mutation	UNP Q79791
2a	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
lM	92	GLU	ALA	engineered mutation	UNP Q79791
lN	92	GLU	ALA	engineered mutation	UNP Q79791
lO	92	GLU	ALA	engineered mutation	UNP Q79791
lP	92	GLU	ALA	engineered mutation	UNP Q79791
lQ	92	GLU	ALA	engineered mutation	UNP Q79791
lR	92	GLU	ALA	engineered mutation	UNP Q79791
2b	92	GLU	ALA	engineered mutation	UNP Q79791
2c	92	GLU	ALA	engineered mutation	UNP Q79791
2d	92	GLU	ALA	engineered mutation	UNP Q79791
2e	92	GLU	ALA	engineered mutation	UNP Q79791
2f	92	GLU	ALA	engineered mutation	UNP Q79791
2g	92	GLU	ALA	engineered mutation	UNP Q79791
2h	92	GLU	ALA	engineered mutation	UNP Q79791
2i	92	GLU	ALA	engineered mutation	UNP Q79791
2j	92	GLU	ALA	engineered mutation	UNP Q79791
2k	92	GLU	ALA	engineered mutation	UNP Q79791
2l	92	GLU	ALA	engineered mutation	UNP Q79791
2m	92	GLU	ALA	engineered mutation	UNP Q79791
2n	92	GLU	ALA	engineered mutation	UNP Q79791
2o	92	GLU	ALA	engineered mutation	UNP Q79791
2p	92	GLU	ALA	engineered mutation	UNP Q79791
2q	92	GLU	ALA	engineered mutation	UNP Q79791
2r	92	GLU	ALA	engineered mutation	UNP Q79791
2s	92	GLU	ALA	engineered mutation	UNP Q79791
2t	92	GLU	ALA	engineered mutation	UNP Q79791
2u	92	GLU	ALA	engineered mutation	UNP Q79791
2v	92	GLU	ALA	engineered mutation	UNP Q79791
2w	92	GLU	ALA	engineered mutation	UNP Q79791
2x	92	GLU	ALA	engineered mutation	UNP Q79791
2y	92	GLU	ALA	engineered mutation	UNP Q79791
2z	92	GLU	ALA	engineered mutation	UNP Q79791
2A	92	GLU	ALA	engineered mutation	UNP Q79791
2B	92	GLU	ALA	engineered mutation	UNP Q79791
2C	92	GLU	ALA	engineered mutation	UNP Q79791
2D	92	GLU	ALA	engineered mutation	UNP Q79791
2E	92	GLU	ALA	engineered mutation	UNP Q79791
2F	92	GLU	ALA	engineered mutation	UNP Q79791
2G	92	GLU	ALA	engineered mutation	UNP Q79791
2H	92	GLU	ALA	engineered mutation	UNP Q79791
2I	92	GLU	ALA	engineered mutation	UNP Q79791
2J	92	GLU	ALA	engineered mutation	UNP Q79791
2K	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
2L	92	GLU	ALA	engineered mutation	UNP Q79791
2M	92	GLU	ALA	engineered mutation	UNP Q79791
2N	92	GLU	ALA	engineered mutation	UNP Q79791
2O	92	GLU	ALA	engineered mutation	UNP Q79791
2P	92	GLU	ALA	engineered mutation	UNP Q79791
2Q	92	GLU	ALA	engineered mutation	UNP Q79791
2R	92	GLU	ALA	engineered mutation	UNP Q79791
2S	92	GLU	ALA	engineered mutation	UNP Q79791
2T	92	GLU	ALA	engineered mutation	UNP Q79791
2U	92	GLU	ALA	engineered mutation	UNP Q79791
2V	92	GLU	ALA	engineered mutation	UNP Q79791
2W	92	GLU	ALA	engineered mutation	UNP Q79791
2X	92	GLU	ALA	engineered mutation	UNP Q79791
2Y	92	GLU	ALA	engineered mutation	UNP Q79791
2Z	92	GLU	ALA	engineered mutation	UNP Q79791
30	92	GLU	ALA	engineered mutation	UNP Q79791
31	92	GLU	ALA	engineered mutation	UNP Q79791
32	92	GLU	ALA	engineered mutation	UNP Q79791
33	92	GLU	ALA	engineered mutation	UNP Q79791
34	92	GLU	ALA	engineered mutation	UNP Q79791
35	92	GLU	ALA	engineered mutation	UNP Q79791
36	92	GLU	ALA	engineered mutation	UNP Q79791
37	92	GLU	ALA	engineered mutation	UNP Q79791
38	92	GLU	ALA	engineered mutation	UNP Q79791
39	92	GLU	ALA	engineered mutation	UNP Q79791
3a	92	GLU	ALA	engineered mutation	UNP Q79791
3b	92	GLU	ALA	engineered mutation	UNP Q79791
3c	92	GLU	ALA	engineered mutation	UNP Q79791
3d	92	GLU	ALA	engineered mutation	UNP Q79791
3e	92	GLU	ALA	engineered mutation	UNP Q79791
3f	92	GLU	ALA	engineered mutation	UNP Q79791
3g	92	GLU	ALA	engineered mutation	UNP Q79791
3h	92	GLU	ALA	engineered mutation	UNP Q79791
3i	92	GLU	ALA	engineered mutation	UNP Q79791
3j	92	GLU	ALA	engineered mutation	UNP Q79791
3k	92	GLU	ALA	engineered mutation	UNP Q79791
3l	92	GLU	ALA	engineered mutation	UNP Q79791
3m	92	GLU	ALA	engineered mutation	UNP Q79791
3n	92	GLU	ALA	engineered mutation	UNP Q79791
3o	92	GLU	ALA	engineered mutation	UNP Q79791
3p	92	GLU	ALA	engineered mutation	UNP Q79791
3q	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
3r	92	GLU	ALA	engineered mutation	UNP Q79791
3s	92	GLU	ALA	engineered mutation	UNP Q79791
3t	92	GLU	ALA	engineered mutation	UNP Q79791
3u	92	GLU	ALA	engineered mutation	UNP Q79791
3v	92	GLU	ALA	engineered mutation	UNP Q79791
3w	92	GLU	ALA	engineered mutation	UNP Q79791
3x	92	GLU	ALA	engineered mutation	UNP Q79791
3y	92	GLU	ALA	engineered mutation	UNP Q79791
3z	92	GLU	ALA	engineered mutation	UNP Q79791
3A	92	GLU	ALA	engineered mutation	UNP Q79791
3B	92	GLU	ALA	engineered mutation	UNP Q79791
3C	92	GLU	ALA	engineered mutation	UNP Q79791
3D	92	GLU	ALA	engineered mutation	UNP Q79791
3E	92	GLU	ALA	engineered mutation	UNP Q79791
3F	92	GLU	ALA	engineered mutation	UNP Q79791
3G	92	GLU	ALA	engineered mutation	UNP Q79791
3H	92	GLU	ALA	engineered mutation	UNP Q79791
3I	92	GLU	ALA	engineered mutation	UNP Q79791
3J	92	GLU	ALA	engineered mutation	UNP Q79791
3K	92	GLU	ALA	engineered mutation	UNP Q79791
3L	92	GLU	ALA	engineered mutation	UNP Q79791
3M	92	GLU	ALA	engineered mutation	UNP Q79791
3N	92	GLU	ALA	engineered mutation	UNP Q79791
3O	92	GLU	ALA	engineered mutation	UNP Q79791
3P	92	GLU	ALA	engineered mutation	UNP Q79791
3Q	92	GLU	ALA	engineered mutation	UNP Q79791
3R	92	GLU	ALA	engineered mutation	UNP Q79791
3S	92	GLU	ALA	engineered mutation	UNP Q79791
3T	92	GLU	ALA	engineered mutation	UNP Q79791
3U	92	GLU	ALA	engineered mutation	UNP Q79791
3V	92	GLU	ALA	engineered mutation	UNP Q79791
3W	92	GLU	ALA	engineered mutation	UNP Q79791
3X	92	GLU	ALA	engineered mutation	UNP Q79791
3Y	92	GLU	ALA	engineered mutation	UNP Q79791
3Z	92	GLU	ALA	engineered mutation	UNP Q79791
40	92	GLU	ALA	engineered mutation	UNP Q79791
41	92	GLU	ALA	engineered mutation	UNP Q79791
42	92	GLU	ALA	engineered mutation	UNP Q79791
43	92	GLU	ALA	engineered mutation	UNP Q79791
44	92	GLU	ALA	engineered mutation	UNP Q79791
45	92	GLU	ALA	engineered mutation	UNP Q79791
46	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
47	92	GLU	ALA	engineered mutation	UNP Q79791
48	92	GLU	ALA	engineered mutation	UNP Q79791
49	92	GLU	ALA	engineered mutation	UNP Q79791
4a	92	GLU	ALA	engineered mutation	UNP Q79791
4b	92	GLU	ALA	engineered mutation	UNP Q79791
4c	92	GLU	ALA	engineered mutation	UNP Q79791
4d	92	GLU	ALA	engineered mutation	UNP Q79791
4e	92	GLU	ALA	engineered mutation	UNP Q79791
4f	92	GLU	ALA	engineered mutation	UNP Q79791
4g	92	GLU	ALA	engineered mutation	UNP Q79791
4h	92	GLU	ALA	engineered mutation	UNP Q79791
4i	92	GLU	ALA	engineered mutation	UNP Q79791
4j	92	GLU	ALA	engineered mutation	UNP Q79791
4k	92	GLU	ALA	engineered mutation	UNP Q79791
4l	92	GLU	ALA	engineered mutation	UNP Q79791
4m	92	GLU	ALA	engineered mutation	UNP Q79791
4n	92	GLU	ALA	engineered mutation	UNP Q79791
4o	92	GLU	ALA	engineered mutation	UNP Q79791
4p	92	GLU	ALA	engineered mutation	UNP Q79791
4q	92	GLU	ALA	engineered mutation	UNP Q79791
4r	92	GLU	ALA	engineered mutation	UNP Q79791
4s	92	GLU	ALA	engineered mutation	UNP Q79791
4t	92	GLU	ALA	engineered mutation	UNP Q79791
4u	92	GLU	ALA	engineered mutation	UNP Q79791
4v	92	GLU	ALA	engineered mutation	UNP Q79791
4w	92	GLU	ALA	engineered mutation	UNP Q79791
4x	92	GLU	ALA	engineered mutation	UNP Q79791
4y	92	GLU	ALA	engineered mutation	UNP Q79791
4z	92	GLU	ALA	engineered mutation	UNP Q79791
4A	92	GLU	ALA	engineered mutation	UNP Q79791
4B	92	GLU	ALA	engineered mutation	UNP Q79791
4C	92	GLU	ALA	engineered mutation	UNP Q79791
4D	92	GLU	ALA	engineered mutation	UNP Q79791
4E	92	GLU	ALA	engineered mutation	UNP Q79791
4F	92	GLU	ALA	engineered mutation	UNP Q79791
4G	92	GLU	ALA	engineered mutation	UNP Q79791
4H	92	GLU	ALA	engineered mutation	UNP Q79791
4I	92	GLU	ALA	engineered mutation	UNP Q79791
4J	92	GLU	ALA	engineered mutation	UNP Q79791
4K	92	GLU	ALA	engineered mutation	UNP Q79791
4L	92	GLU	ALA	engineered mutation	UNP Q79791
4M	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
4N	92	GLU	ALA	engineered mutation	UNP Q79791
4O	92	GLU	ALA	engineered mutation	UNP Q79791
4P	92	GLU	ALA	engineered mutation	UNP Q79791
4Q	92	GLU	ALA	engineered mutation	UNP Q79791
4R	92	GLU	ALA	engineered mutation	UNP Q79791
4S	92	GLU	ALA	engineered mutation	UNP Q79791
4T	92	GLU	ALA	engineered mutation	UNP Q79791
4U	92	GLU	ALA	engineered mutation	UNP Q79791
4V	92	GLU	ALA	engineered mutation	UNP Q79791
4W	92	GLU	ALA	engineered mutation	UNP Q79791
4X	92	GLU	ALA	engineered mutation	UNP Q79791
4Y	92	GLU	ALA	engineered mutation	UNP Q79791
4Z	92	GLU	ALA	engineered mutation	UNP Q79791
50	92	GLU	ALA	engineered mutation	UNP Q79791
51	92	GLU	ALA	engineered mutation	UNP Q79791
52	92	GLU	ALA	engineered mutation	UNP Q79791
53	92	GLU	ALA	engineered mutation	UNP Q79791
54	92	GLU	ALA	engineered mutation	UNP Q79791
55	92	GLU	ALA	engineered mutation	UNP Q79791
56	92	GLU	ALA	engineered mutation	UNP Q79791
57	92	GLU	ALA	engineered mutation	UNP Q79791
58	92	GLU	ALA	engineered mutation	UNP Q79791
59	92	GLU	ALA	engineered mutation	UNP Q79791
5a	92	GLU	ALA	engineered mutation	UNP Q79791
5b	92	GLU	ALA	engineered mutation	UNP Q79791
5c	92	GLU	ALA	engineered mutation	UNP Q79791
5d	92	GLU	ALA	engineered mutation	UNP Q79791
5e	92	GLU	ALA	engineered mutation	UNP Q79791
5f	92	GLU	ALA	engineered mutation	UNP Q79791
5g	92	GLU	ALA	engineered mutation	UNP Q79791
5h	92	GLU	ALA	engineered mutation	UNP Q79791
5i	92	GLU	ALA	engineered mutation	UNP Q79791
5j	92	GLU	ALA	engineered mutation	UNP Q79791
5k	92	GLU	ALA	engineered mutation	UNP Q79791
5l	92	GLU	ALA	engineered mutation	UNP Q79791
5m	92	GLU	ALA	engineered mutation	UNP Q79791
5n	92	GLU	ALA	engineered mutation	UNP Q79791
5o	92	GLU	ALA	engineered mutation	UNP Q79791
5p	92	GLU	ALA	engineered mutation	UNP Q79791
5q	92	GLU	ALA	engineered mutation	UNP Q79791
5r	92	GLU	ALA	engineered mutation	UNP Q79791
5s	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
5t	92	GLU	ALA	engineered mutation	UNP Q79791
5u	92	GLU	ALA	engineered mutation	UNP Q79791
5v	92	GLU	ALA	engineered mutation	UNP Q79791
5w	92	GLU	ALA	engineered mutation	UNP Q79791
5x	92	GLU	ALA	engineered mutation	UNP Q79791
5y	92	GLU	ALA	engineered mutation	UNP Q79791
5z	92	GLU	ALA	engineered mutation	UNP Q79791
5A	92	GLU	ALA	engineered mutation	UNP Q79791
5B	92	GLU	ALA	engineered mutation	UNP Q79791
5C	92	GLU	ALA	engineered mutation	UNP Q79791
5D	92	GLU	ALA	engineered mutation	UNP Q79791
5E	92	GLU	ALA	engineered mutation	UNP Q79791
5F	92	GLU	ALA	engineered mutation	UNP Q79791
5G	92	GLU	ALA	engineered mutation	UNP Q79791
5H	92	GLU	ALA	engineered mutation	UNP Q79791
5I	92	GLU	ALA	engineered mutation	UNP Q79791
5J	92	GLU	ALA	engineered mutation	UNP Q79791
5K	92	GLU	ALA	engineered mutation	UNP Q79791
5L	92	GLU	ALA	engineered mutation	UNP Q79791
5M	92	GLU	ALA	engineered mutation	UNP Q79791
5N	92	GLU	ALA	engineered mutation	UNP Q79791
5O	92	GLU	ALA	engineered mutation	UNP Q79791
5P	92	GLU	ALA	engineered mutation	UNP Q79791
5Q	92	GLU	ALA	engineered mutation	UNP Q79791
5R	92	GLU	ALA	engineered mutation	UNP Q79791
5S	92	GLU	ALA	engineered mutation	UNP Q79791
5T	92	GLU	ALA	engineered mutation	UNP Q79791
5U	92	GLU	ALA	engineered mutation	UNP Q79791
5V	92	GLU	ALA	engineered mutation	UNP Q79791
5W	92	GLU	ALA	engineered mutation	UNP Q79791
5X	92	GLU	ALA	engineered mutation	UNP Q79791
5Y	92	GLU	ALA	engineered mutation	UNP Q79791
5Z	92	GLU	ALA	engineered mutation	UNP Q79791
60	92	GLU	ALA	engineered mutation	UNP Q79791
61	92	GLU	ALA	engineered mutation	UNP Q79791
62	92	GLU	ALA	engineered mutation	UNP Q79791
63	92	GLU	ALA	engineered mutation	UNP Q79791
64	92	GLU	ALA	engineered mutation	UNP Q79791
65	92	GLU	ALA	engineered mutation	UNP Q79791
66	92	GLU	ALA	engineered mutation	UNP Q79791
67	92	GLU	ALA	engineered mutation	UNP Q79791
68	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
69	92	GLU	ALA	engineered mutation	UNP Q79791
6a	92	GLU	ALA	engineered mutation	UNP Q79791
6b	92	GLU	ALA	engineered mutation	UNP Q79791
6c	92	GLU	ALA	engineered mutation	UNP Q79791
6d	92	GLU	ALA	engineered mutation	UNP Q79791
6e	92	GLU	ALA	engineered mutation	UNP Q79791
6f	92	GLU	ALA	engineered mutation	UNP Q79791
6g	92	GLU	ALA	engineered mutation	UNP Q79791
6h	92	GLU	ALA	engineered mutation	UNP Q79791
6i	92	GLU	ALA	engineered mutation	UNP Q79791
6j	92	GLU	ALA	engineered mutation	UNP Q79791
6k	92	GLU	ALA	engineered mutation	UNP Q79791
6l	92	GLU	ALA	engineered mutation	UNP Q79791
6m	92	GLU	ALA	engineered mutation	UNP Q79791
6n	92	GLU	ALA	engineered mutation	UNP Q79791
6o	92	GLU	ALA	engineered mutation	UNP Q79791
6p	92	GLU	ALA	engineered mutation	UNP Q79791
6q	92	GLU	ALA	engineered mutation	UNP Q79791
6r	92	GLU	ALA	engineered mutation	UNP Q79791
6s	92	GLU	ALA	engineered mutation	UNP Q79791
6t	92	GLU	ALA	engineered mutation	UNP Q79791
6u	92	GLU	ALA	engineered mutation	UNP Q79791
6v	92	GLU	ALA	engineered mutation	UNP Q79791
6w	92	GLU	ALA	engineered mutation	UNP Q79791
6x	92	GLU	ALA	engineered mutation	UNP Q79791
6y	92	GLU	ALA	engineered mutation	UNP Q79791
6z	92	GLU	ALA	engineered mutation	UNP Q79791
6A	92	GLU	ALA	engineered mutation	UNP Q79791
6B	92	GLU	ALA	engineered mutation	UNP Q79791
6C	92	GLU	ALA	engineered mutation	UNP Q79791
6D	92	GLU	ALA	engineered mutation	UNP Q79791
6E	92	GLU	ALA	engineered mutation	UNP Q79791
6F	92	GLU	ALA	engineered mutation	UNP Q79791
6G	92	GLU	ALA	engineered mutation	UNP Q79791
6H	92	GLU	ALA	engineered mutation	UNP Q79791
6I	92	GLU	ALA	engineered mutation	UNP Q79791
6J	92	GLU	ALA	engineered mutation	UNP Q79791
6K	92	GLU	ALA	engineered mutation	UNP Q79791
6L	92	GLU	ALA	engineered mutation	UNP Q79791
6M	92	GLU	ALA	engineered mutation	UNP Q79791
6N	92	GLU	ALA	engineered mutation	UNP Q79791
6O	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
6P	92	GLU	ALA	engineered mutation	UNP Q79791
6Q	92	GLU	ALA	engineered mutation	UNP Q79791
6R	92	GLU	ALA	engineered mutation	UNP Q79791
6S	92	GLU	ALA	engineered mutation	UNP Q79791
6T	92	GLU	ALA	engineered mutation	UNP Q79791
6U	92	GLU	ALA	engineered mutation	UNP Q79791
6V	92	GLU	ALA	engineered mutation	UNP Q79791
6W	92	GLU	ALA	engineered mutation	UNP Q79791
6X	92	GLU	ALA	engineered mutation	UNP Q79791
6Y	92	GLU	ALA	engineered mutation	UNP Q79791
6Z	92	GLU	ALA	engineered mutation	UNP Q79791
70	92	GLU	ALA	engineered mutation	UNP Q79791
71	92	GLU	ALA	engineered mutation	UNP Q79791
72	92	GLU	ALA	engineered mutation	UNP Q79791
73	92	GLU	ALA	engineered mutation	UNP Q79791
74	92	GLU	ALA	engineered mutation	UNP Q79791
75	92	GLU	ALA	engineered mutation	UNP Q79791
76	92	GLU	ALA	engineered mutation	UNP Q79791
77	92	GLU	ALA	engineered mutation	UNP Q79791
78	92	GLU	ALA	engineered mutation	UNP Q79791
79	92	GLU	ALA	engineered mutation	UNP Q79791
7a	92	GLU	ALA	engineered mutation	UNP Q79791
7b	92	GLU	ALA	engineered mutation	UNP Q79791
7c	92	GLU	ALA	engineered mutation	UNP Q79791
7d	92	GLU	ALA	engineered mutation	UNP Q79791
7e	92	GLU	ALA	engineered mutation	UNP Q79791
7f	92	GLU	ALA	engineered mutation	UNP Q79791
7g	92	GLU	ALA	engineered mutation	UNP Q79791
7h	92	GLU	ALA	engineered mutation	UNP Q79791
7i	92	GLU	ALA	engineered mutation	UNP Q79791
7j	92	GLU	ALA	engineered mutation	UNP Q79791
7k	92	GLU	ALA	engineered mutation	UNP Q79791
7l	92	GLU	ALA	engineered mutation	UNP Q79791
7m	92	GLU	ALA	engineered mutation	UNP Q79791
7n	92	GLU	ALA	engineered mutation	UNP Q79791
7o	92	GLU	ALA	engineered mutation	UNP Q79791
7p	92	GLU	ALA	engineered mutation	UNP Q79791
7q	92	GLU	ALA	engineered mutation	UNP Q79791
7r	92	GLU	ALA	engineered mutation	UNP Q79791
7s	92	GLU	ALA	engineered mutation	UNP Q79791
7t	92	GLU	ALA	engineered mutation	UNP Q79791
7u	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
7v	92	GLU	ALA	engineered mutation	UNP Q79791
7w	92	GLU	ALA	engineered mutation	UNP Q79791
7x	92	GLU	ALA	engineered mutation	UNP Q79791
7y	92	GLU	ALA	engineered mutation	UNP Q79791
7z	92	GLU	ALA	engineered mutation	UNP Q79791
7A	92	GLU	ALA	engineered mutation	UNP Q79791
7B	92	GLU	ALA	engineered mutation	UNP Q79791
7C	92	GLU	ALA	engineered mutation	UNP Q79791
7D	92	GLU	ALA	engineered mutation	UNP Q79791
7E	92	GLU	ALA	engineered mutation	UNP Q79791
7F	92	GLU	ALA	engineered mutation	UNP Q79791
7G	92	GLU	ALA	engineered mutation	UNP Q79791
7H	92	GLU	ALA	engineered mutation	UNP Q79791
7I	92	GLU	ALA	engineered mutation	UNP Q79791
7J	92	GLU	ALA	engineered mutation	UNP Q79791
7K	92	GLU	ALA	engineered mutation	UNP Q79791
7L	92	GLU	ALA	engineered mutation	UNP Q79791
7M	92	GLU	ALA	engineered mutation	UNP Q79791
7N	92	GLU	ALA	engineered mutation	UNP Q79791
7O	92	GLU	ALA	engineered mutation	UNP Q79791
7P	92	GLU	ALA	engineered mutation	UNP Q79791
7Q	92	GLU	ALA	engineered mutation	UNP Q79791
7R	92	GLU	ALA	engineered mutation	UNP Q79791
7S	92	GLU	ALA	engineered mutation	UNP Q79791
7T	92	GLU	ALA	engineered mutation	UNP Q79791
7U	92	GLU	ALA	engineered mutation	UNP Q79791
7V	92	GLU	ALA	engineered mutation	UNP Q79791
7W	92	GLU	ALA	engineered mutation	UNP Q79791
7X	92	GLU	ALA	engineered mutation	UNP Q79791
7Y	92	GLU	ALA	engineered mutation	UNP Q79791
7Z	92	GLU	ALA	engineered mutation	UNP Q79791
80	92	GLU	ALA	engineered mutation	UNP Q79791
81	92	GLU	ALA	engineered mutation	UNP Q79791
82	92	GLU	ALA	engineered mutation	UNP Q79791
83	92	GLU	ALA	engineered mutation	UNP Q79791
84	92	GLU	ALA	engineered mutation	UNP Q79791
85	92	GLU	ALA	engineered mutation	UNP Q79791
86	92	GLU	ALA	engineered mutation	UNP Q79791
87	92	GLU	ALA	engineered mutation	UNP Q79791
88	92	GLU	ALA	engineered mutation	UNP Q79791
89	92	GLU	ALA	engineered mutation	UNP Q79791
8a	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
8b	92	GLU	ALA	engineered mutation	UNP Q79791
8c	92	GLU	ALA	engineered mutation	UNP Q79791
8d	92	GLU	ALA	engineered mutation	UNP Q79791
8e	92	GLU	ALA	engineered mutation	UNP Q79791
8f	92	GLU	ALA	engineered mutation	UNP Q79791
8g	92	GLU	ALA	engineered mutation	UNP Q79791
8h	92	GLU	ALA	engineered mutation	UNP Q79791
8i	92	GLU	ALA	engineered mutation	UNP Q79791
8j	92	GLU	ALA	engineered mutation	UNP Q79791
8k	92	GLU	ALA	engineered mutation	UNP Q79791
8l	92	GLU	ALA	engineered mutation	UNP Q79791
8m	92	GLU	ALA	engineered mutation	UNP Q79791
8n	92	GLU	ALA	engineered mutation	UNP Q79791
8o	92	GLU	ALA	engineered mutation	UNP Q79791
8p	92	GLU	ALA	engineered mutation	UNP Q79791
8q	92	GLU	ALA	engineered mutation	UNP Q79791
8r	92	GLU	ALA	engineered mutation	UNP Q79791
8s	92	GLU	ALA	engineered mutation	UNP Q79791
8t	92	GLU	ALA	engineered mutation	UNP Q79791
8u	92	GLU	ALA	engineered mutation	UNP Q79791
8v	92	GLU	ALA	engineered mutation	UNP Q79791
8w	92	GLU	ALA	engineered mutation	UNP Q79791
8x	92	GLU	ALA	engineered mutation	UNP Q79791
8y	92	GLU	ALA	engineered mutation	UNP Q79791
8z	92	GLU	ALA	engineered mutation	UNP Q79791
8A	92	GLU	ALA	engineered mutation	UNP Q79791
8B	92	GLU	ALA	engineered mutation	UNP Q79791
8C	92	GLU	ALA	engineered mutation	UNP Q79791
8D	92	GLU	ALA	engineered mutation	UNP Q79791
8E	92	GLU	ALA	engineered mutation	UNP Q79791
8F	92	GLU	ALA	engineered mutation	UNP Q79791
8G	92	GLU	ALA	engineered mutation	UNP Q79791
8H	92	GLU	ALA	engineered mutation	UNP Q79791
8I	92	GLU	ALA	engineered mutation	UNP Q79791
8J	92	GLU	ALA	engineered mutation	UNP Q79791
8K	92	GLU	ALA	engineered mutation	UNP Q79791
8L	92	GLU	ALA	engineered mutation	UNP Q79791
8M	92	GLU	ALA	engineered mutation	UNP Q79791
8N	92	GLU	ALA	engineered mutation	UNP Q79791
8O	92	GLU	ALA	engineered mutation	UNP Q79791
8P	92	GLU	ALA	engineered mutation	UNP Q79791
8Q	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
8R	92	GLU	ALA	engineered mutation	UNP Q79791
8S	92	GLU	ALA	engineered mutation	UNP Q79791
8T	92	GLU	ALA	engineered mutation	UNP Q79791
8U	92	GLU	ALA	engineered mutation	UNP Q79791
8V	92	GLU	ALA	engineered mutation	UNP Q79791
8W	92	GLU	ALA	engineered mutation	UNP Q79791
8X	92	GLU	ALA	engineered mutation	UNP Q79791
8Y	92	GLU	ALA	engineered mutation	UNP Q79791
8Z	92	GLU	ALA	engineered mutation	UNP Q79791
90	92	GLU	ALA	engineered mutation	UNP Q79791
91	92	GLU	ALA	engineered mutation	UNP Q79791
92	92	GLU	ALA	engineered mutation	UNP Q79791
93	92	GLU	ALA	engineered mutation	UNP Q79791
94	92	GLU	ALA	engineered mutation	UNP Q79791
95	92	GLU	ALA	engineered mutation	UNP Q79791
96	92	GLU	ALA	engineered mutation	UNP Q79791
97	92	GLU	ALA	engineered mutation	UNP Q79791
98	92	GLU	ALA	engineered mutation	UNP Q79791
99	92	GLU	ALA	engineered mutation	UNP Q79791
9a	92	GLU	ALA	engineered mutation	UNP Q79791
9b	92	GLU	ALA	engineered mutation	UNP Q79791
9c	92	GLU	ALA	engineered mutation	UNP Q79791
9d	92	GLU	ALA	engineered mutation	UNP Q79791
9e	92	GLU	ALA	engineered mutation	UNP Q79791
9f	92	GLU	ALA	engineered mutation	UNP Q79791
9g	92	GLU	ALA	engineered mutation	UNP Q79791
9h	92	GLU	ALA	engineered mutation	UNP Q79791
9i	92	GLU	ALA	engineered mutation	UNP Q79791
9j	92	GLU	ALA	engineered mutation	UNP Q79791
9k	92	GLU	ALA	engineered mutation	UNP Q79791
9l	92	GLU	ALA	engineered mutation	UNP Q79791
9m	92	GLU	ALA	engineered mutation	UNP Q79791
9n	92	GLU	ALA	engineered mutation	UNP Q79791
9o	92	GLU	ALA	engineered mutation	UNP Q79791
9p	92	GLU	ALA	engineered mutation	UNP Q79791
9q	92	GLU	ALA	engineered mutation	UNP Q79791
9r	92	GLU	ALA	engineered mutation	UNP Q79791
9s	92	GLU	ALA	engineered mutation	UNP Q79791
9t	92	GLU	ALA	engineered mutation	UNP Q79791
9u	92	GLU	ALA	engineered mutation	UNP Q79791
9v	92	GLU	ALA	engineered mutation	UNP Q79791
9w	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
9x	92	GLU	ALA	engineered mutation	UNP Q79791
9y	92	GLU	ALA	engineered mutation	UNP Q79791
9z	92	GLU	ALA	engineered mutation	UNP Q79791
9A	92	GLU	ALA	engineered mutation	UNP Q79791
9B	92	GLU	ALA	engineered mutation	UNP Q79791
9C	92	GLU	ALA	engineered mutation	UNP Q79791
9D	92	GLU	ALA	engineered mutation	UNP Q79791
9E	92	GLU	ALA	engineered mutation	UNP Q79791
9F	92	GLU	ALA	engineered mutation	UNP Q79791
9G	92	GLU	ALA	engineered mutation	UNP Q79791
9H	92	GLU	ALA	engineered mutation	UNP Q79791
9I	92	GLU	ALA	engineered mutation	UNP Q79791
9J	92	GLU	ALA	engineered mutation	UNP Q79791
9K	92	GLU	ALA	engineered mutation	UNP Q79791
9L	92	GLU	ALA	engineered mutation	UNP Q79791
9M	92	GLU	ALA	engineered mutation	UNP Q79791
9N	92	GLU	ALA	engineered mutation	UNP Q79791
9O	92	GLU	ALA	engineered mutation	UNP Q79791
9P	92	GLU	ALA	engineered mutation	UNP Q79791
Y	92	GLU	ALA	engineered mutation	UNP Q79791
9Q	92	GLU	ALA	engineered mutation	UNP Q79791
9R	92	GLU	ALA	engineered mutation	UNP Q79791
9S	92	GLU	ALA	engineered mutation	UNP Q79791
9T	92	GLU	ALA	engineered mutation	UNP Q79791
9U	92	GLU	ALA	engineered mutation	UNP Q79791
9V	92	GLU	ALA	engineered mutation	UNP Q79791
9W	92	GLU	ALA	engineered mutation	UNP Q79791
9X	92	GLU	ALA	engineered mutation	UNP Q79791
9Y	92	GLU	ALA	engineered mutation	UNP Q79791
9Z	92	GLU	ALA	engineered mutation	UNP Q79791
Z	92	GLU	ALA	engineered mutation	UNP Q79791
a0	92	GLU	ALA	engineered mutation	UNP Q79791
a1	92	GLU	ALA	engineered mutation	UNP Q79791
a2	92	GLU	ALA	engineered mutation	UNP Q79791
a3	92	GLU	ALA	engineered mutation	UNP Q79791
a4	92	GLU	ALA	engineered mutation	UNP Q79791
a5	92	GLU	ALA	engineered mutation	UNP Q79791
a6	92	GLU	ALA	engineered mutation	UNP Q79791
a7	92	GLU	ALA	engineered mutation	UNP Q79791
a8	92	GLU	ALA	engineered mutation	UNP Q79791
a9	92	GLU	ALA	engineered mutation	UNP Q79791
10	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
aa	92	GLU	ALA	engineered mutation	UNP Q79791
ab	92	GLU	ALA	engineered mutation	UNP Q79791
ac	92	GLU	ALA	engineered mutation	UNP Q79791
ad	92	GLU	ALA	engineered mutation	UNP Q79791
ae	92	GLU	ALA	engineered mutation	UNP Q79791
af	92	GLU	ALA	engineered mutation	UNP Q79791
ag	92	GLU	ALA	engineered mutation	UNP Q79791
ah	92	GLU	ALA	engineered mutation	UNP Q79791
ai	92	GLU	ALA	engineered mutation	UNP Q79791
aj	92	GLU	ALA	engineered mutation	UNP Q79791
11	92	GLU	ALA	engineered mutation	UNP Q79791
ak	92	GLU	ALA	engineered mutation	UNP Q79791
al	92	GLU	ALA	engineered mutation	UNP Q79791
am	92	GLU	ALA	engineered mutation	UNP Q79791
an	92	GLU	ALA	engineered mutation	UNP Q79791
ao	92	GLU	ALA	engineered mutation	UNP Q79791
ap	92	GLU	ALA	engineered mutation	UNP Q79791
aq	92	GLU	ALA	engineered mutation	UNP Q79791
ar	92	GLU	ALA	engineered mutation	UNP Q79791
as	92	GLU	ALA	engineered mutation	UNP Q79791
at	92	GLU	ALA	engineered mutation	UNP Q79791
12	92	GLU	ALA	engineered mutation	UNP Q79791
au	92	GLU	ALA	engineered mutation	UNP Q79791
av	92	GLU	ALA	engineered mutation	UNP Q79791
aw	92	GLU	ALA	engineered mutation	UNP Q79791
ax	92	GLU	ALA	engineered mutation	UNP Q79791
ay	92	GLU	ALA	engineered mutation	UNP Q79791
az	92	GLU	ALA	engineered mutation	UNP Q79791
aA	92	GLU	ALA	engineered mutation	UNP Q79791
aB	92	GLU	ALA	engineered mutation	UNP Q79791
aC	92	GLU	ALA	engineered mutation	UNP Q79791
aD	92	GLU	ALA	engineered mutation	UNP Q79791
13	92	GLU	ALA	engineered mutation	UNP Q79791
aE	92	GLU	ALA	engineered mutation	UNP Q79791
aF	92	GLU	ALA	engineered mutation	UNP Q79791
aG	92	GLU	ALA	engineered mutation	UNP Q79791
aH	92	GLU	ALA	engineered mutation	UNP Q79791
aI	92	GLU	ALA	engineered mutation	UNP Q79791
aJ	92	GLU	ALA	engineered mutation	UNP Q79791
aK	92	GLU	ALA	engineered mutation	UNP Q79791
aL	92	GLU	ALA	engineered mutation	UNP Q79791
aM	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
aN	92	GLU	ALA	engineered mutation	UNP Q79791
14	92	GLU	ALA	engineered mutation	UNP Q79791
aO	92	GLU	ALA	engineered mutation	UNP Q79791
aP	92	GLU	ALA	engineered mutation	UNP Q79791
aQ	92	GLU	ALA	engineered mutation	UNP Q79791
aR	92	GLU	ALA	engineered mutation	UNP Q79791
aS	92	GLU	ALA	engineered mutation	UNP Q79791
aT	92	GLU	ALA	engineered mutation	UNP Q79791
aU	92	GLU	ALA	engineered mutation	UNP Q79791
aV	92	GLU	ALA	engineered mutation	UNP Q79791
aW	92	GLU	ALA	engineered mutation	UNP Q79791
aX	92	GLU	ALA	engineered mutation	UNP Q79791
15	92	GLU	ALA	engineered mutation	UNP Q79791
aY	92	GLU	ALA	engineered mutation	UNP Q79791
aZ	92	GLU	ALA	engineered mutation	UNP Q79791
b0	92	GLU	ALA	engineered mutation	UNP Q79791
b1	92	GLU	ALA	engineered mutation	UNP Q79791
b2	92	GLU	ALA	engineered mutation	UNP Q79791
b3	92	GLU	ALA	engineered mutation	UNP Q79791
b4	92	GLU	ALA	engineered mutation	UNP Q79791
b5	92	GLU	ALA	engineered mutation	UNP Q79791
b6	92	GLU	ALA	engineered mutation	UNP Q79791
b7	92	GLU	ALA	engineered mutation	UNP Q79791
16	92	GLU	ALA	engineered mutation	UNP Q79791
b8	92	GLU	ALA	engineered mutation	UNP Q79791
b9	92	GLU	ALA	engineered mutation	UNP Q79791
ba	92	GLU	ALA	engineered mutation	UNP Q79791
bb	92	GLU	ALA	engineered mutation	UNP Q79791
bc	92	GLU	ALA	engineered mutation	UNP Q79791
bd	92	GLU	ALA	engineered mutation	UNP Q79791
be	92	GLU	ALA	engineered mutation	UNP Q79791
bf	92	GLU	ALA	engineered mutation	UNP Q79791
bg	92	GLU	ALA	engineered mutation	UNP Q79791
bh	92	GLU	ALA	engineered mutation	UNP Q79791
17	92	GLU	ALA	engineered mutation	UNP Q79791
bi	92	GLU	ALA	engineered mutation	UNP Q79791
bj	92	GLU	ALA	engineered mutation	UNP Q79791
bk	92	GLU	ALA	engineered mutation	UNP Q79791
bl	92	GLU	ALA	engineered mutation	UNP Q79791
bm	92	GLU	ALA	engineered mutation	UNP Q79791
bn	92	GLU	ALA	engineered mutation	UNP Q79791
bo	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
bp	92	GLU	ALA	engineered mutation	UNP Q79791
bq	92	GLU	ALA	engineered mutation	UNP Q79791
br	92	GLU	ALA	engineered mutation	UNP Q79791
18	92	GLU	ALA	engineered mutation	UNP Q79791
bs	92	GLU	ALA	engineered mutation	UNP Q79791
bt	92	GLU	ALA	engineered mutation	UNP Q79791
bu	92	GLU	ALA	engineered mutation	UNP Q79791
bv	92	GLU	ALA	engineered mutation	UNP Q79791
bw	92	GLU	ALA	engineered mutation	UNP Q79791
bx	92	GLU	ALA	engineered mutation	UNP Q79791
by	92	GLU	ALA	engineered mutation	UNP Q79791
bz	92	GLU	ALA	engineered mutation	UNP Q79791
bA	92	GLU	ALA	engineered mutation	UNP Q79791
bB	92	GLU	ALA	engineered mutation	UNP Q79791
19	92	GLU	ALA	engineered mutation	UNP Q79791
bC	92	GLU	ALA	engineered mutation	UNP Q79791
bD	92	GLU	ALA	engineered mutation	UNP Q79791
bE	92	GLU	ALA	engineered mutation	UNP Q79791
bF	92	GLU	ALA	engineered mutation	UNP Q79791
bG	92	GLU	ALA	engineered mutation	UNP Q79791
bH	92	GLU	ALA	engineered mutation	UNP Q79791
bI	92	GLU	ALA	engineered mutation	UNP Q79791
bJ	92	GLU	ALA	engineered mutation	UNP Q79791
bK	92	GLU	ALA	engineered mutation	UNP Q79791
bL	92	GLU	ALA	engineered mutation	UNP Q79791
1a	92	GLU	ALA	engineered mutation	UNP Q79791
bM	92	GLU	ALA	engineered mutation	UNP Q79791
bN	92	GLU	ALA	engineered mutation	UNP Q79791
bO	92	GLU	ALA	engineered mutation	UNP Q79791
bP	92	GLU	ALA	engineered mutation	UNP Q79791
bQ	92	GLU	ALA	engineered mutation	UNP Q79791
bR	92	GLU	ALA	engineered mutation	UNP Q79791
bS	92	GLU	ALA	engineered mutation	UNP Q79791
bT	92	GLU	ALA	engineered mutation	UNP Q79791
bU	92	GLU	ALA	engineered mutation	UNP Q79791
bV	92	GLU	ALA	engineered mutation	UNP Q79791
1b	92	GLU	ALA	engineered mutation	UNP Q79791
bW	92	GLU	ALA	engineered mutation	UNP Q79791
bX	92	GLU	ALA	engineered mutation	UNP Q79791
bY	92	GLU	ALA	engineered mutation	UNP Q79791
bZ	92	GLU	ALA	engineered mutation	UNP Q79791
c0	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
c1	92	GLU	ALA	engineered mutation	UNP Q79791
c2	92	GLU	ALA	engineered mutation	UNP Q79791
c3	92	GLU	ALA	engineered mutation	UNP Q79791
c4	92	GLU	ALA	engineered mutation	UNP Q79791
c5	92	GLU	ALA	engineered mutation	UNP Q79791
1c	92	GLU	ALA	engineered mutation	UNP Q79791
c6	92	GLU	ALA	engineered mutation	UNP Q79791
c7	92	GLU	ALA	engineered mutation	UNP Q79791
c8	92	GLU	ALA	engineered mutation	UNP Q79791
c9	92	GLU	ALA	engineered mutation	UNP Q79791
ca	92	GLU	ALA	engineered mutation	UNP Q79791
cb	92	GLU	ALA	engineered mutation	UNP Q79791
cc	92	GLU	ALA	engineered mutation	UNP Q79791
cd	92	GLU	ALA	engineered mutation	UNP Q79791
ce	92	GLU	ALA	engineered mutation	UNP Q79791
cf	92	GLU	ALA	engineered mutation	UNP Q79791
1d	92	GLU	ALA	engineered mutation	UNP Q79791
cg	92	GLU	ALA	engineered mutation	UNP Q79791
ch	92	GLU	ALA	engineered mutation	UNP Q79791
ci	92	GLU	ALA	engineered mutation	UNP Q79791
cj	92	GLU	ALA	engineered mutation	UNP Q79791
ck	92	GLU	ALA	engineered mutation	UNP Q79791
cl	92	GLU	ALA	engineered mutation	UNP Q79791
cm	92	GLU	ALA	engineered mutation	UNP Q79791
cn	92	GLU	ALA	engineered mutation	UNP Q79791
co	92	GLU	ALA	engineered mutation	UNP Q79791
cp	92	GLU	ALA	engineered mutation	UNP Q79791
1e	92	GLU	ALA	engineered mutation	UNP Q79791
cq	92	GLU	ALA	engineered mutation	UNP Q79791
cr	92	GLU	ALA	engineered mutation	UNP Q79791
cs	92	GLU	ALA	engineered mutation	UNP Q79791
ct	92	GLU	ALA	engineered mutation	UNP Q79791
cu	92	GLU	ALA	engineered mutation	UNP Q79791
cv	92	GLU	ALA	engineered mutation	UNP Q79791
cw	92	GLU	ALA	engineered mutation	UNP Q79791
cx	92	GLU	ALA	engineered mutation	UNP Q79791
cy	92	GLU	ALA	engineered mutation	UNP Q79791
cz	92	GLU	ALA	engineered mutation	UNP Q79791
1f	92	GLU	ALA	engineered mutation	UNP Q79791
cA	92	GLU	ALA	engineered mutation	UNP Q79791
cB	92	GLU	ALA	engineered mutation	UNP Q79791
cC	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
cD	92	GLU	ALA	engineered mutation	UNP Q79791
cE	92	GLU	ALA	engineered mutation	UNP Q79791
cF	92	GLU	ALA	engineered mutation	UNP Q79791
cG	92	GLU	ALA	engineered mutation	UNP Q79791
cH	92	GLU	ALA	engineered mutation	UNP Q79791
cI	92	GLU	ALA	engineered mutation	UNP Q79791
cJ	92	GLU	ALA	engineered mutation	UNP Q79791
1g	92	GLU	ALA	engineered mutation	UNP Q79791
cK	92	GLU	ALA	engineered mutation	UNP Q79791
cL	92	GLU	ALA	engineered mutation	UNP Q79791
cM	92	GLU	ALA	engineered mutation	UNP Q79791
cN	92	GLU	ALA	engineered mutation	UNP Q79791
cO	92	GLU	ALA	engineered mutation	UNP Q79791
cP	92	GLU	ALA	engineered mutation	UNP Q79791
cQ	92	GLU	ALA	engineered mutation	UNP Q79791
cR	92	GLU	ALA	engineered mutation	UNP Q79791
cS	92	GLU	ALA	engineered mutation	UNP Q79791
cT	92	GLU	ALA	engineered mutation	UNP Q79791
1h	92	GLU	ALA	engineered mutation	UNP Q79791
cU	92	GLU	ALA	engineered mutation	UNP Q79791
cV	92	GLU	ALA	engineered mutation	UNP Q79791
cW	92	GLU	ALA	engineered mutation	UNP Q79791
cX	92	GLU	ALA	engineered mutation	UNP Q79791
cY	92	GLU	ALA	engineered mutation	UNP Q79791
cZ	92	GLU	ALA	engineered mutation	UNP Q79791
d0	92	GLU	ALA	engineered mutation	UNP Q79791
d1	92	GLU	ALA	engineered mutation	UNP Q79791
d2	92	GLU	ALA	engineered mutation	UNP Q79791
d3	92	GLU	ALA	engineered mutation	UNP Q79791
1i	92	GLU	ALA	engineered mutation	UNP Q79791
d4	92	GLU	ALA	engineered mutation	UNP Q79791
d5	92	GLU	ALA	engineered mutation	UNP Q79791
d6	92	GLU	ALA	engineered mutation	UNP Q79791
d7	92	GLU	ALA	engineered mutation	UNP Q79791
d8	92	GLU	ALA	engineered mutation	UNP Q79791
d9	92	GLU	ALA	engineered mutation	UNP Q79791
da	92	GLU	ALA	engineered mutation	UNP Q79791
db	92	GLU	ALA	engineered mutation	UNP Q79791
dc	92	GLU	ALA	engineered mutation	UNP Q79791
dd	92	GLU	ALA	engineered mutation	UNP Q79791
1j	92	GLU	ALA	engineered mutation	UNP Q79791
de	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
df	92	GLU	ALA	engineered mutation	UNP Q79791
dg	92	GLU	ALA	engineered mutation	UNP Q79791
dh	92	GLU	ALA	engineered mutation	UNP Q79791
di	92	GLU	ALA	engineered mutation	UNP Q79791
dj	92	GLU	ALA	engineered mutation	UNP Q79791
dk	92	GLU	ALA	engineered mutation	UNP Q79791
dl	92	GLU	ALA	engineered mutation	UNP Q79791
dm	92	GLU	ALA	engineered mutation	UNP Q79791
dn	92	GLU	ALA	engineered mutation	UNP Q79791
1k	92	GLU	ALA	engineered mutation	UNP Q79791
do	92	GLU	ALA	engineered mutation	UNP Q79791
dp	92	GLU	ALA	engineered mutation	UNP Q79791
dq	92	GLU	ALA	engineered mutation	UNP Q79791
dr	92	GLU	ALA	engineered mutation	UNP Q79791
ds	92	GLU	ALA	engineered mutation	UNP Q79791
dt	92	GLU	ALA	engineered mutation	UNP Q79791
du	92	GLU	ALA	engineered mutation	UNP Q79791
dv	92	GLU	ALA	engineered mutation	UNP Q79791
dw	92	GLU	ALA	engineered mutation	UNP Q79791
dx	92	GLU	ALA	engineered mutation	UNP Q79791
1l	92	GLU	ALA	engineered mutation	UNP Q79791
dy	92	GLU	ALA	engineered mutation	UNP Q79791
dz	92	GLU	ALA	engineered mutation	UNP Q79791
dA	92	GLU	ALA	engineered mutation	UNP Q79791
dB	92	GLU	ALA	engineered mutation	UNP Q79791
dC	92	GLU	ALA	engineered mutation	UNP Q79791
dD	92	GLU	ALA	engineered mutation	UNP Q79791
dE	92	GLU	ALA	engineered mutation	UNP Q79791
dF	92	GLU	ALA	engineered mutation	UNP Q79791
dG	92	GLU	ALA	engineered mutation	UNP Q79791
dH	92	GLU	ALA	engineered mutation	UNP Q79791
1m	92	GLU	ALA	engineered mutation	UNP Q79791
dI	92	GLU	ALA	engineered mutation	UNP Q79791
dJ	92	GLU	ALA	engineered mutation	UNP Q79791
dK	92	GLU	ALA	engineered mutation	UNP Q79791
dL	92	GLU	ALA	engineered mutation	UNP Q79791
dM	92	GLU	ALA	engineered mutation	UNP Q79791
dN	92	GLU	ALA	engineered mutation	UNP Q79791
dO	92	GLU	ALA	engineered mutation	UNP Q79791
dP	92	GLU	ALA	engineered mutation	UNP Q79791
dQ	92	GLU	ALA	engineered mutation	UNP Q79791
dR	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
1n	92	GLU	ALA	engineered mutation	UNP Q79791
dS	92	GLU	ALA	engineered mutation	UNP Q79791
dT	92	GLU	ALA	engineered mutation	UNP Q79791
dU	92	GLU	ALA	engineered mutation	UNP Q79791
dV	92	GLU	ALA	engineered mutation	UNP Q79791
dW	92	GLU	ALA	engineered mutation	UNP Q79791
dX	92	GLU	ALA	engineered mutation	UNP Q79791
dY	92	GLU	ALA	engineered mutation	UNP Q79791
dZ	92	GLU	ALA	engineered mutation	UNP Q79791
e0	92	GLU	ALA	engineered mutation	UNP Q79791
e1	92	GLU	ALA	engineered mutation	UNP Q79791
1o	92	GLU	ALA	engineered mutation	UNP Q79791
e2	92	GLU	ALA	engineered mutation	UNP Q79791
e3	92	GLU	ALA	engineered mutation	UNP Q79791
e4	92	GLU	ALA	engineered mutation	UNP Q79791
e5	92	GLU	ALA	engineered mutation	UNP Q79791
e6	92	GLU	ALA	engineered mutation	UNP Q79791
e7	92	GLU	ALA	engineered mutation	UNP Q79791
e8	92	GLU	ALA	engineered mutation	UNP Q79791
e9	92	GLU	ALA	engineered mutation	UNP Q79791
ea	92	GLU	ALA	engineered mutation	UNP Q79791
eb	92	GLU	ALA	engineered mutation	UNP Q79791
1p	92	GLU	ALA	engineered mutation	UNP Q79791
ec	92	GLU	ALA	engineered mutation	UNP Q79791
ed	92	GLU	ALA	engineered mutation	UNP Q79791
ee	92	GLU	ALA	engineered mutation	UNP Q79791
ef	92	GLU	ALA	engineered mutation	UNP Q79791
eg	92	GLU	ALA	engineered mutation	UNP Q79791
eh	92	GLU	ALA	engineered mutation	UNP Q79791
ei	92	GLU	ALA	engineered mutation	UNP Q79791
ej	92	GLU	ALA	engineered mutation	UNP Q79791
ek	92	GLU	ALA	engineered mutation	UNP Q79791
el	92	GLU	ALA	engineered mutation	UNP Q79791
1q	92	GLU	ALA	engineered mutation	UNP Q79791
em	92	GLU	ALA	engineered mutation	UNP Q79791
en	92	GLU	ALA	engineered mutation	UNP Q79791
eo	92	GLU	ALA	engineered mutation	UNP Q79791
ep	92	GLU	ALA	engineered mutation	UNP Q79791
eq	92	GLU	ALA	engineered mutation	UNP Q79791
er	92	GLU	ALA	engineered mutation	UNP Q79791
es	92	GLU	ALA	engineered mutation	UNP Q79791
et	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
eu	92	GLU	ALA	engineered mutation	UNP Q79791
ev	92	GLU	ALA	engineered mutation	UNP Q79791
1r	92	GLU	ALA	engineered mutation	UNP Q79791
ew	92	GLU	ALA	engineered mutation	UNP Q79791
ex	92	GLU	ALA	engineered mutation	UNP Q79791
ey	92	GLU	ALA	engineered mutation	UNP Q79791
ez	92	GLU	ALA	engineered mutation	UNP Q79791
eA	92	GLU	ALA	engineered mutation	UNP Q79791
eB	92	GLU	ALA	engineered mutation	UNP Q79791
eC	92	GLU	ALA	engineered mutation	UNP Q79791
eD	92	GLU	ALA	engineered mutation	UNP Q79791
eE	92	GLU	ALA	engineered mutation	UNP Q79791
eF	92	GLU	ALA	engineered mutation	UNP Q79791
1s	92	GLU	ALA	engineered mutation	UNP Q79791
eG	92	GLU	ALA	engineered mutation	UNP Q79791
eH	92	GLU	ALA	engineered mutation	UNP Q79791
eI	92	GLU	ALA	engineered mutation	UNP Q79791
eJ	92	GLU	ALA	engineered mutation	UNP Q79791
eK	92	GLU	ALA	engineered mutation	UNP Q79791
eL	92	GLU	ALA	engineered mutation	UNP Q79791
eM	92	GLU	ALA	engineered mutation	UNP Q79791
eN	92	GLU	ALA	engineered mutation	UNP Q79791
eO	92	GLU	ALA	engineered mutation	UNP Q79791
eP	92	GLU	ALA	engineered mutation	UNP Q79791
1t	92	GLU	ALA	engineered mutation	UNP Q79791
eQ	92	GLU	ALA	engineered mutation	UNP Q79791
eR	92	GLU	ALA	engineered mutation	UNP Q79791
eS	92	GLU	ALA	engineered mutation	UNP Q79791
eT	92	GLU	ALA	engineered mutation	UNP Q79791
eU	92	GLU	ALA	engineered mutation	UNP Q79791
eV	92	GLU	ALA	engineered mutation	UNP Q79791
eW	92	GLU	ALA	engineered mutation	UNP Q79791
eX	92	GLU	ALA	engineered mutation	UNP Q79791
eY	92	GLU	ALA	engineered mutation	UNP Q79791
eZ	92	GLU	ALA	engineered mutation	UNP Q79791
1u	92	GLU	ALA	engineered mutation	UNP Q79791
f0	92	GLU	ALA	engineered mutation	UNP Q79791
f1	92	GLU	ALA	engineered mutation	UNP Q79791
f2	92	GLU	ALA	engineered mutation	UNP Q79791
f3	92	GLU	ALA	engineered mutation	UNP Q79791
f4	92	GLU	ALA	engineered mutation	UNP Q79791
f5	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
f6	92	GLU	ALA	engineered mutation	UNP Q79791
f7	92	GLU	ALA	engineered mutation	UNP Q79791
f8	92	GLU	ALA	engineered mutation	UNP Q79791
f9	92	GLU	ALA	engineered mutation	UNP Q79791
1v	92	GLU	ALA	engineered mutation	UNP Q79791
fa	92	GLU	ALA	engineered mutation	UNP Q79791
fb	92	GLU	ALA	engineered mutation	UNP Q79791
fc	92	GLU	ALA	engineered mutation	UNP Q79791
fd	92	GLU	ALA	engineered mutation	UNP Q79791
fe	92	GLU	ALA	engineered mutation	UNP Q79791
ff	92	GLU	ALA	engineered mutation	UNP Q79791
fg	92	GLU	ALA	engineered mutation	UNP Q79791
fh	92	GLU	ALA	engineered mutation	UNP Q79791
fi	92	GLU	ALA	engineered mutation	UNP Q79791
fj	92	GLU	ALA	engineered mutation	UNP Q79791
1w	92	GLU	ALA	engineered mutation	UNP Q79791
fk	92	GLU	ALA	engineered mutation	UNP Q79791
fl	92	GLU	ALA	engineered mutation	UNP Q79791
fm	92	GLU	ALA	engineered mutation	UNP Q79791
fn	92	GLU	ALA	engineered mutation	UNP Q79791
fo	92	GLU	ALA	engineered mutation	UNP Q79791
fp	92	GLU	ALA	engineered mutation	UNP Q79791
fq	92	GLU	ALA	engineered mutation	UNP Q79791
fr	92	GLU	ALA	engineered mutation	UNP Q79791
fs	92	GLU	ALA	engineered mutation	UNP Q79791
ft	92	GLU	ALA	engineered mutation	UNP Q79791
1x	92	GLU	ALA	engineered mutation	UNP Q79791
fu	92	GLU	ALA	engineered mutation	UNP Q79791
fv	92	GLU	ALA	engineered mutation	UNP Q79791
fw	92	GLU	ALA	engineered mutation	UNP Q79791
fx	92	GLU	ALA	engineered mutation	UNP Q79791
fy	92	GLU	ALA	engineered mutation	UNP Q79791
fz	92	GLU	ALA	engineered mutation	UNP Q79791
fA	92	GLU	ALA	engineered mutation	UNP Q79791
fB	92	GLU	ALA	engineered mutation	UNP Q79791
fC	92	GLU	ALA	engineered mutation	UNP Q79791
fD	92	GLU	ALA	engineered mutation	UNP Q79791
1y	92	GLU	ALA	engineered mutation	UNP Q79791
fE	92	GLU	ALA	engineered mutation	UNP Q79791
fF	92	GLU	ALA	engineered mutation	UNP Q79791
fG	92	GLU	ALA	engineered mutation	UNP Q79791
fH	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
fI	92	GLU	ALA	engineered mutation	UNP Q79791
fJ	92	GLU	ALA	engineered mutation	UNP Q79791
fK	92	GLU	ALA	engineered mutation	UNP Q79791
fL	92	GLU	ALA	engineered mutation	UNP Q79791
fM	92	GLU	ALA	engineered mutation	UNP Q79791
fN	92	GLU	ALA	engineered mutation	UNP Q79791
1z	92	GLU	ALA	engineered mutation	UNP Q79791
fO	92	GLU	ALA	engineered mutation	UNP Q79791
fP	92	GLU	ALA	engineered mutation	UNP Q79791
fQ	92	GLU	ALA	engineered mutation	UNP Q79791
fR	92	GLU	ALA	engineered mutation	UNP Q79791
fS	92	GLU	ALA	engineered mutation	UNP Q79791
fT	92	GLU	ALA	engineered mutation	UNP Q79791
fU	92	GLU	ALA	engineered mutation	UNP Q79791
fV	92	GLU	ALA	engineered mutation	UNP Q79791
fW	92	GLU	ALA	engineered mutation	UNP Q79791
fX	92	GLU	ALA	engineered mutation	UNP Q79791
1A	92	GLU	ALA	engineered mutation	UNP Q79791
fY	92	GLU	ALA	engineered mutation	UNP Q79791
fZ	92	GLU	ALA	engineered mutation	UNP Q79791
g0	92	GLU	ALA	engineered mutation	UNP Q79791
g1	92	GLU	ALA	engineered mutation	UNP Q79791
g2	92	GLU	ALA	engineered mutation	UNP Q79791
g3	92	GLU	ALA	engineered mutation	UNP Q79791
g4	92	GLU	ALA	engineered mutation	UNP Q79791
g5	92	GLU	ALA	engineered mutation	UNP Q79791
g6	92	GLU	ALA	engineered mutation	UNP Q79791
g7	92	GLU	ALA	engineered mutation	UNP Q79791
1B	92	GLU	ALA	engineered mutation	UNP Q79791
0	92	GLU	ALA	engineered mutation	UNP Q79791
a	92	GLU	ALA	engineered mutation	UNP Q79791
b	92	GLU	ALA	engineered mutation	UNP Q79791
c	92	GLU	ALA	engineered mutation	UNP Q79791
d	92	GLU	ALA	engineered mutation	UNP Q79791
e	92	GLU	ALA	engineered mutation	UNP Q79791
f	92	GLU	ALA	engineered mutation	UNP Q79791
g	92	GLU	ALA	engineered mutation	UNP Q79791
h	92	GLU	ALA	engineered mutation	UNP Q79791
i	92	GLU	ALA	engineered mutation	UNP Q79791
j	92	GLU	ALA	engineered mutation	UNP Q79791
1	92	GLU	ALA	engineered mutation	UNP Q79791
k	92	GLU	ALA	engineered mutation	UNP Q79791

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Chain	Residue	Modelled	Actual	Comment	Reference
l	92	GLU	ALA	engineered mutation	UNP Q79791
m	92	GLU	ALA	engineered mutation	UNP Q79791
n	92	GLU	ALA	engineered mutation	UNP Q79791
o	92	GLU	ALA	engineered mutation	UNP Q79791
p	92	GLU	ALA	engineered mutation	UNP Q79791
q	92	GLU	ALA	engineered mutation	UNP Q79791
r	92	GLU	ALA	engineered mutation	UNP Q79791
s	92	GLU	ALA	engineered mutation	UNP Q79791
t	92	GLU	ALA	engineered mutation	UNP Q79791
2	92	GLU	ALA	engineered mutation	UNP Q79791
u	92	GLU	ALA	engineered mutation	UNP Q79791
v	92	GLU	ALA	engineered mutation	UNP Q79791
w	92	GLU	ALA	engineered mutation	UNP Q79791
x	92	GLU	ALA	engineered mutation	UNP Q79791
y	92	GLU	ALA	engineered mutation	UNP Q79791
z	92	GLU	ALA	engineered mutation	UNP Q79791
A	92	GLU	ALA	engineered mutation	UNP Q79791
B	92	GLU	ALA	engineered mutation	UNP Q79791
C	92	GLU	ALA	engineered mutation	UNP Q79791
D	92	GLU	ALA	engineered mutation	UNP Q79791
3	92	GLU	ALA	engineered mutation	UNP Q79791
E	92	GLU	ALA	engineered mutation	UNP Q79791
F	92	GLU	ALA	engineered mutation	UNP Q79791
G	92	GLU	ALA	engineered mutation	UNP Q79791
H	92	GLU	ALA	engineered mutation	UNP Q79791
I	92	GLU	ALA	engineered mutation	UNP Q79791
J	92	GLU	ALA	engineered mutation	UNP Q79791
K	92	GLU	ALA	engineered mutation	UNP Q79791
L	92	GLU	ALA	engineered mutation	UNP Q79791
M	92	GLU	ALA	engineered mutation	UNP Q79791
N	92	GLU	ALA	engineered mutation	UNP Q79791
4	92	GLU	ALA	engineered mutation	UNP Q79791
O	92	GLU	ALA	engineered mutation	UNP Q79791
P	92	GLU	ALA	engineered mutation	UNP Q79791
Q	92	GLU	ALA	engineered mutation	UNP Q79791
R	92	GLU	ALA	engineered mutation	UNP Q79791
S	92	GLU	ALA	engineered mutation	UNP Q79791
T	92	GLU	ALA	engineered mutation	UNP Q79791
U	92	GLU	ALA	engineered mutation	UNP Q79791
V	92	GLU	ALA	engineered mutation	UNP Q79791
W	92	GLU	ALA	engineered mutation	UNP Q79791
X	92	GLU	ALA	engineered mutation	UNP Q79791

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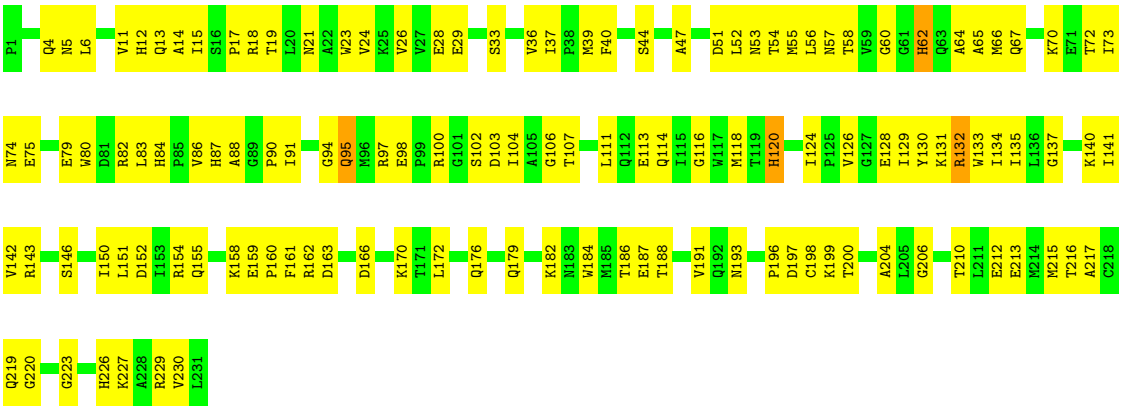
Chain	Residue	Modelled	Actual	Comment	Reference
5	92	GLU	ALA	engineered mutation	UNP Q79791
6	92	GLU	ALA	engineered mutation	UNP Q79791
7	92	GLU	ALA	engineered mutation	UNP Q79791
8	92	GLU	ALA	engineered mutation	UNP Q79791
9	92	GLU	ALA	engineered mutation	UNP Q79791

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: capsid protein

Chain g8:

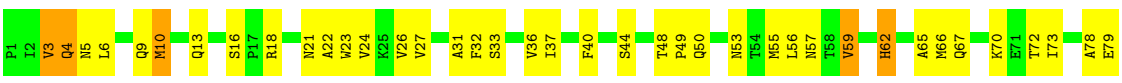


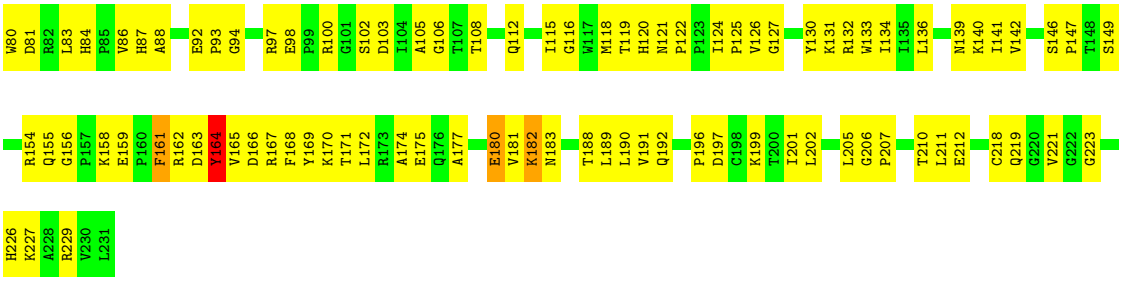
- Molecule 1: capsid protein

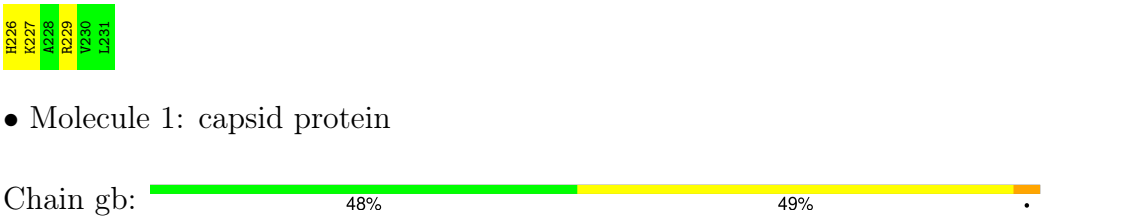
Chain g9:

- Molecule 1: capsid protein

Chain ga:

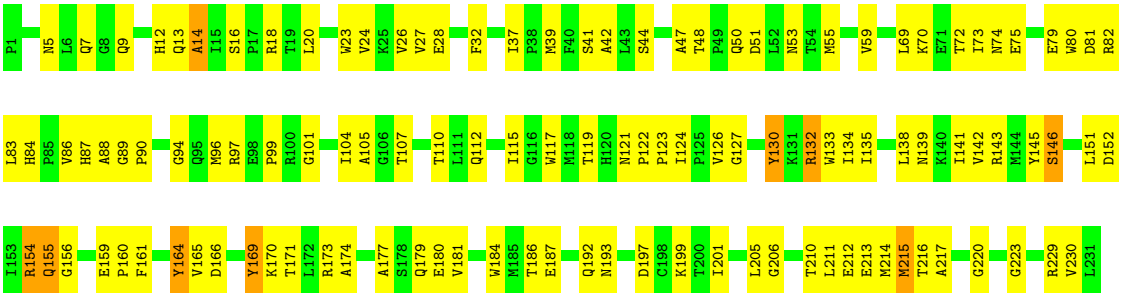






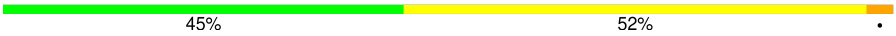
• Molecule 1: capsid protein

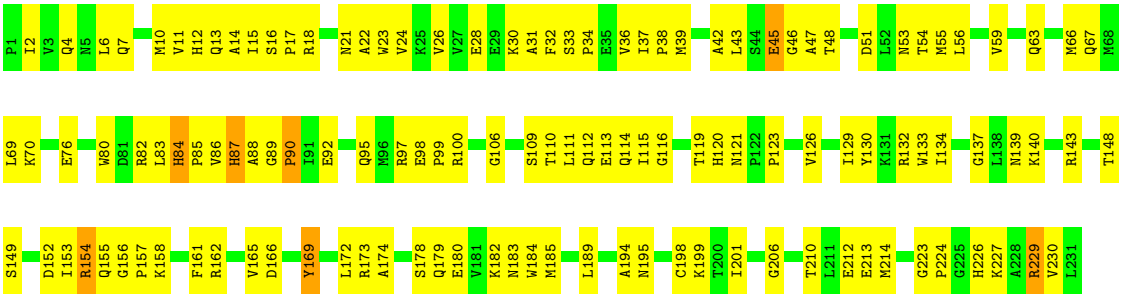
Chain ge:



• Molecule 1: capsid protein

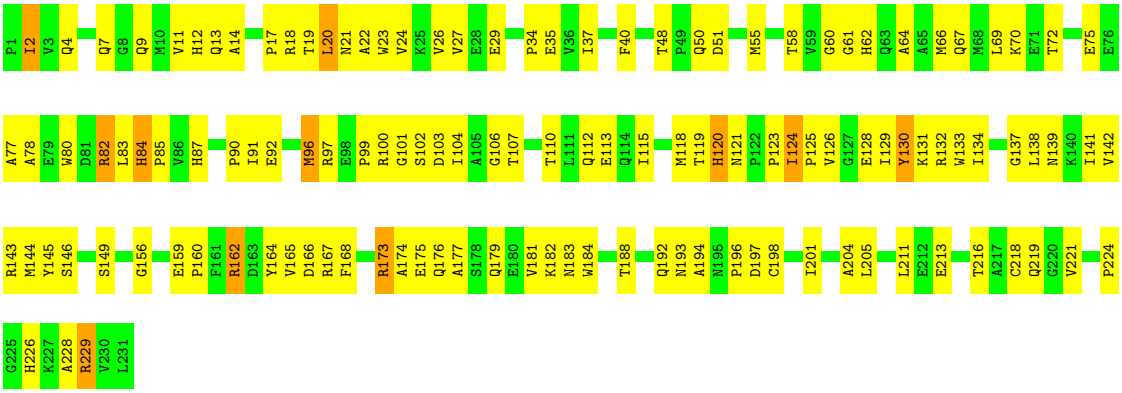
Chain gf:





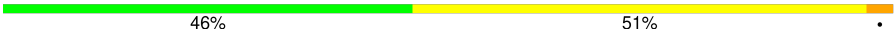
• Molecule 1: capsid protein

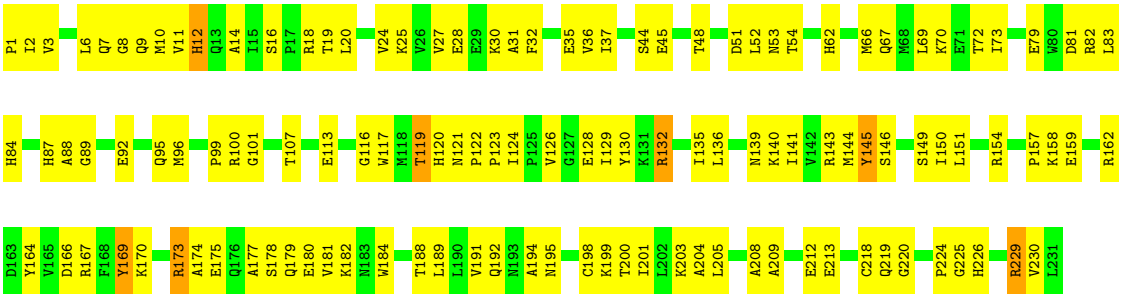
Chain gg:



• Molecule 1: capsid protein

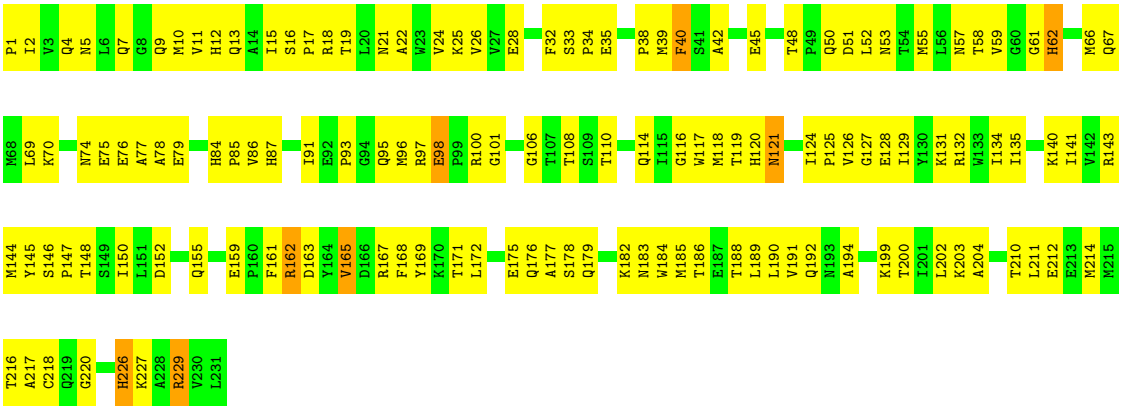
Chain gh:





• Molecule 1: capsid protein

Chain 1C:

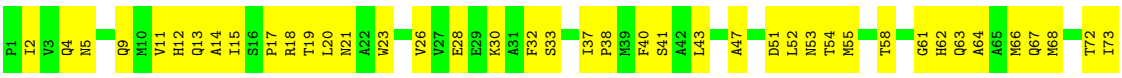


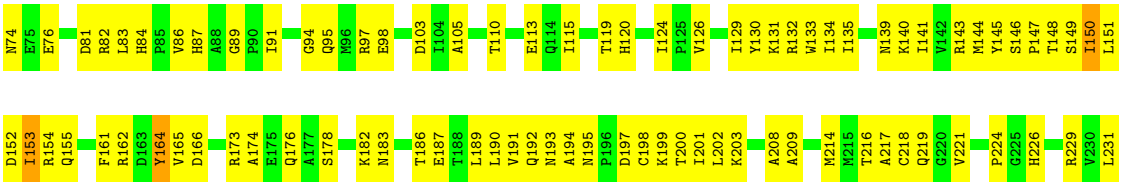
• Molecule 1: capsid protein

Chain gi:

• Molecule 1: capsid protein

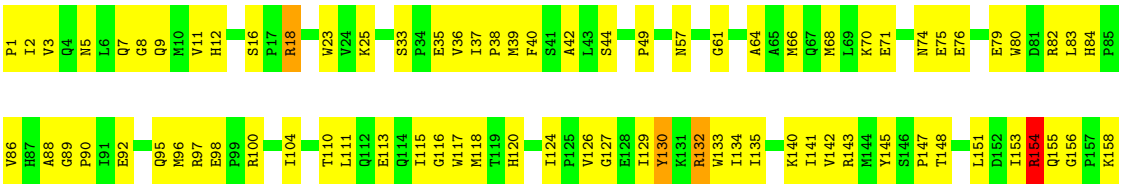
Chain gj:





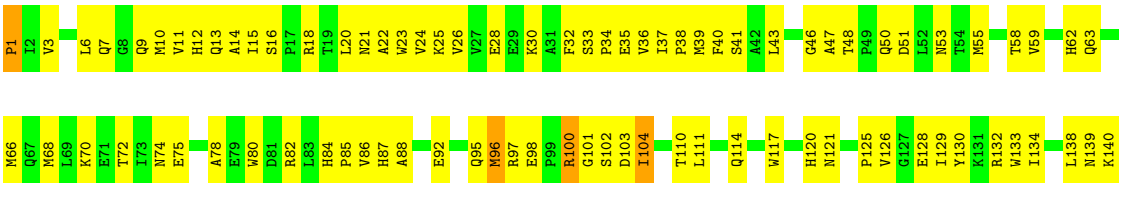
• Molecule 1: capsid protein

Chain gk:



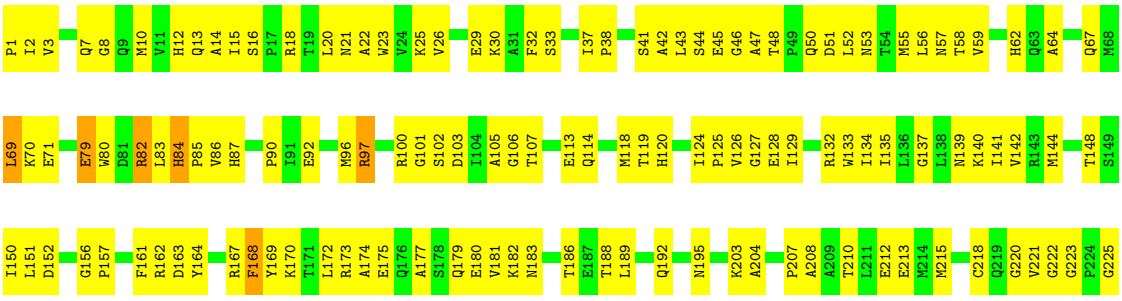
• Molecule 1: capsid protein

Chain gl:



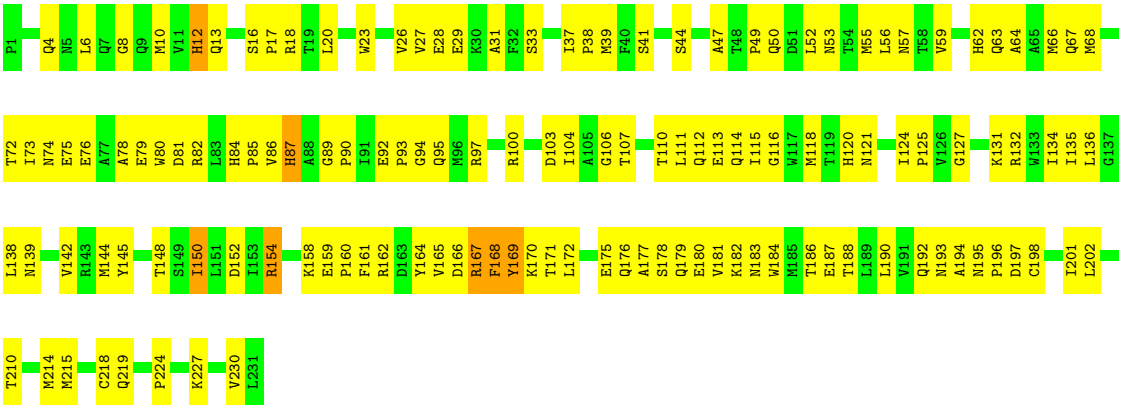
• Molecule 1: capsid protein

Chain gm:



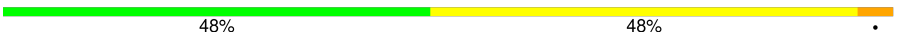
• Molecule 1: capsid protein

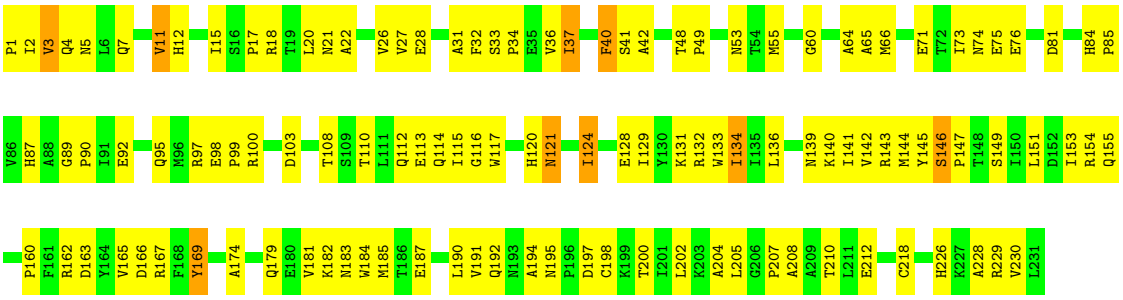
Chain gn:



• Molecule 1: capsid protein

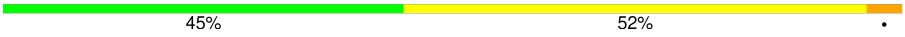
Chain go:





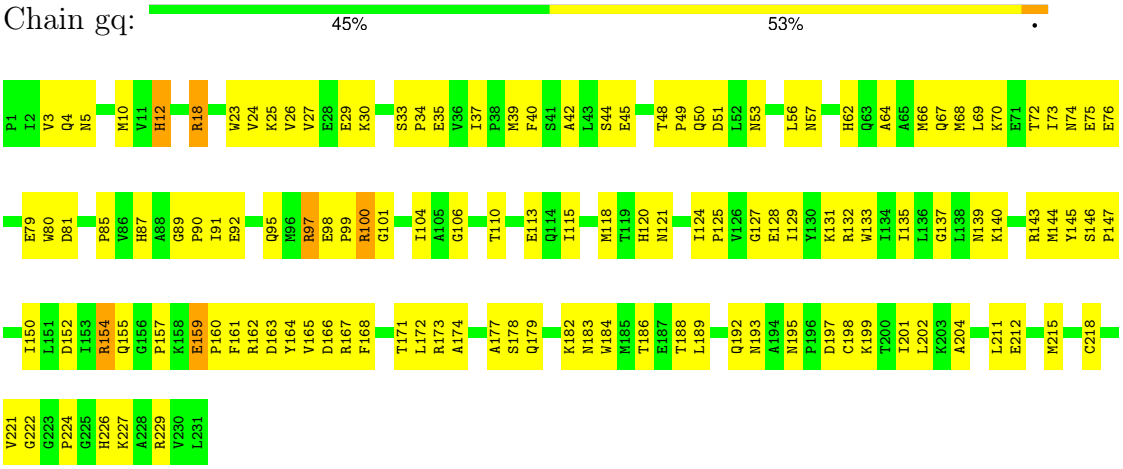
• Molecule 1: capsid protein

Chain gp:



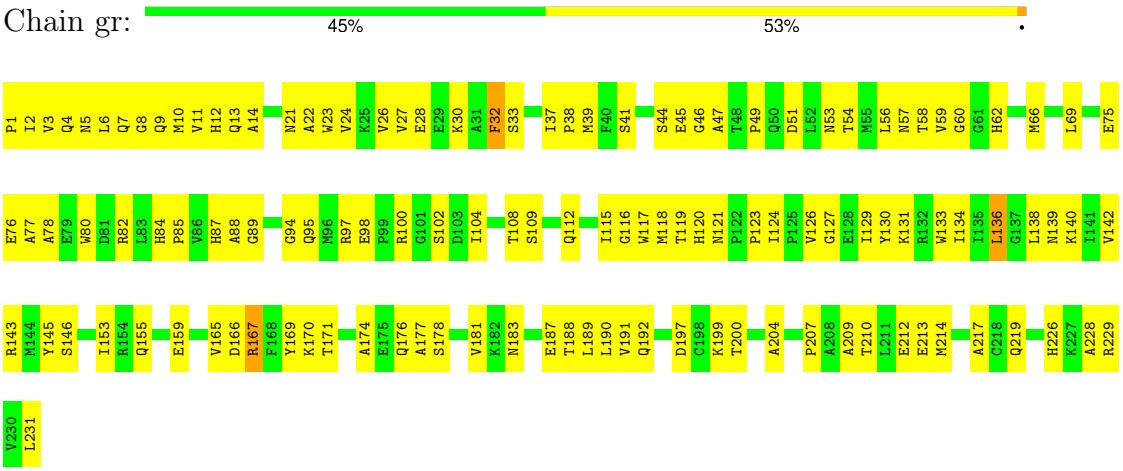
• Molecule 1: capsid protein

Chain gq:



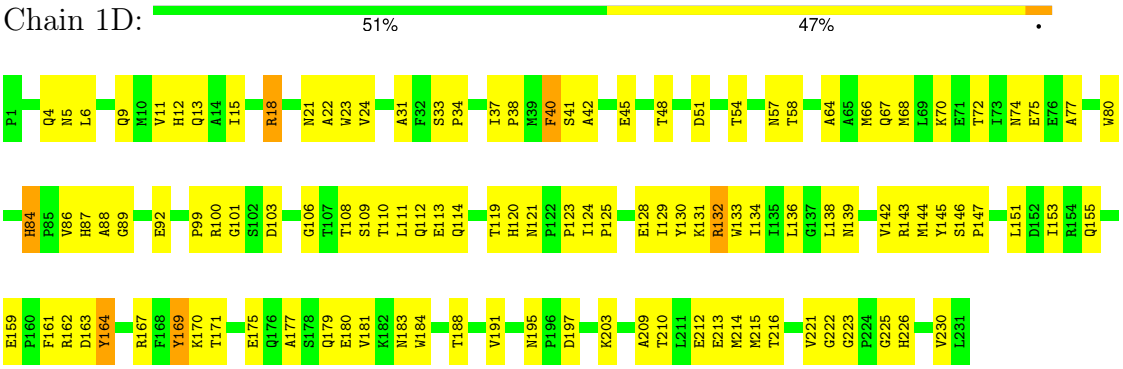
• Molecule 1: capsid protein

Chain gr:



• Molecule 1: capsid protein

Chain 1D:

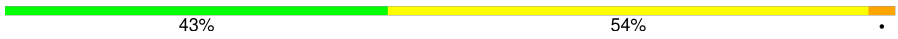


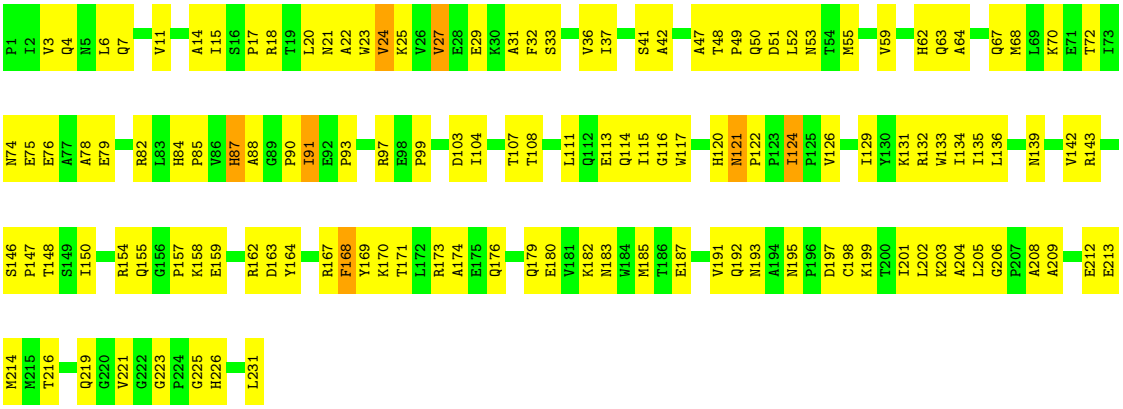
• Molecule 1: capsid protein

Chain gs:

• Molecule 1: capsid protein

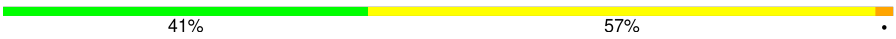
Chain gt:

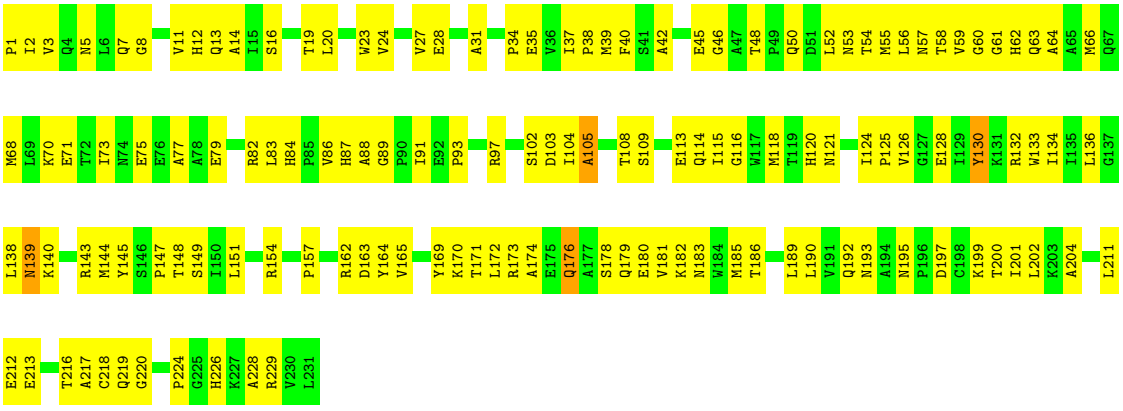




• Molecule 1: capsid protein

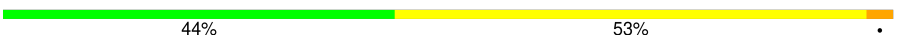
Chain gu:





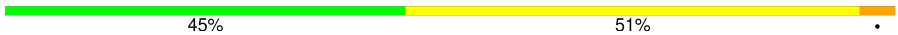
• Molecule 1: capsid protein

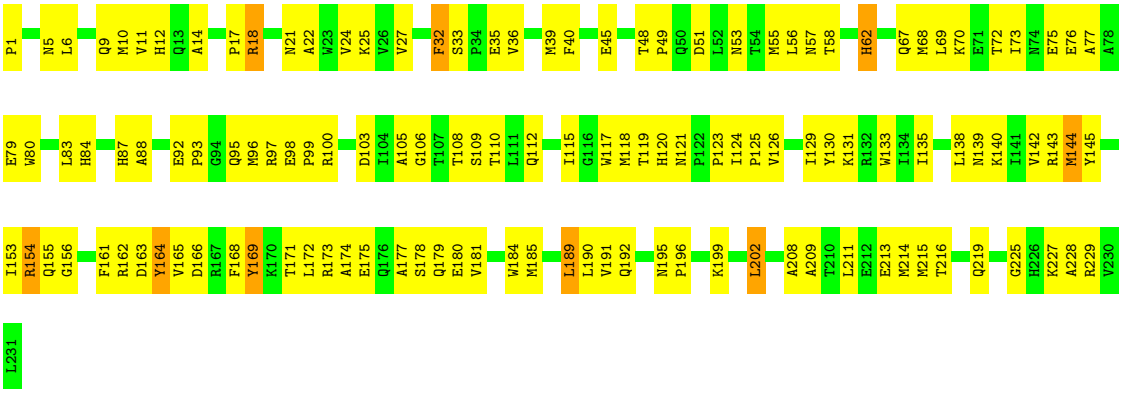
Chain gv:



• Molecule 1: capsid protein

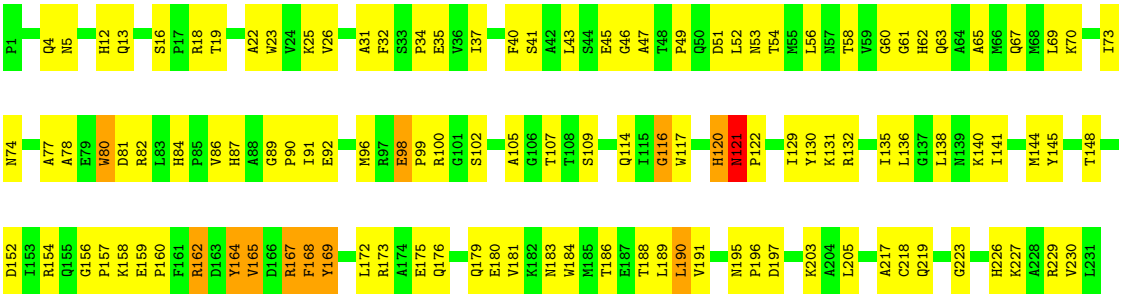
Chain gw:





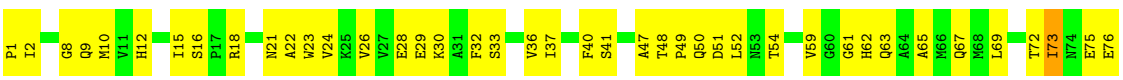
• Molecule 1: capsid protein

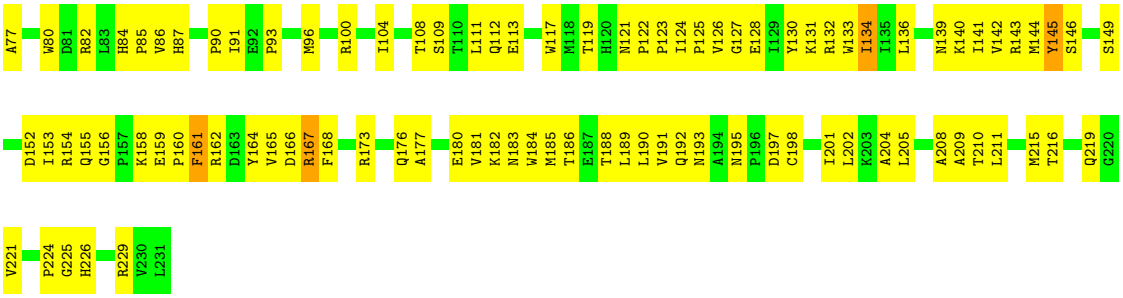
Chain gx:



• Molecule 1: capsid protein

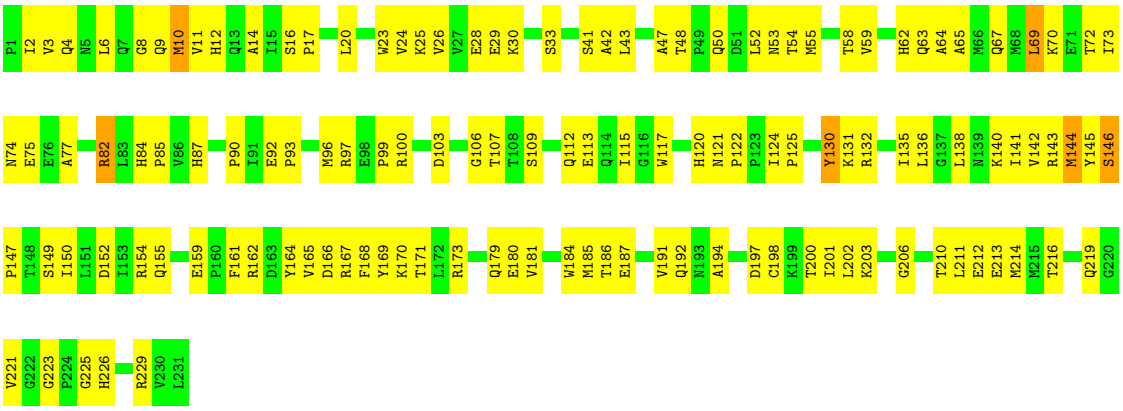
Chain gy:





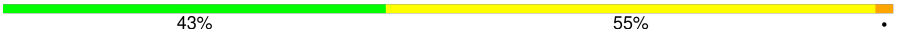
• Molecule 1: capsid protein

Chain gz:



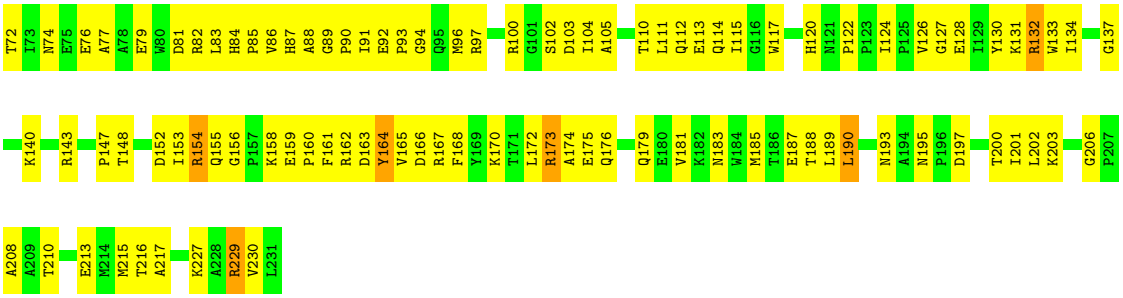
• Molecule 1: capsid protein

Chain gA:



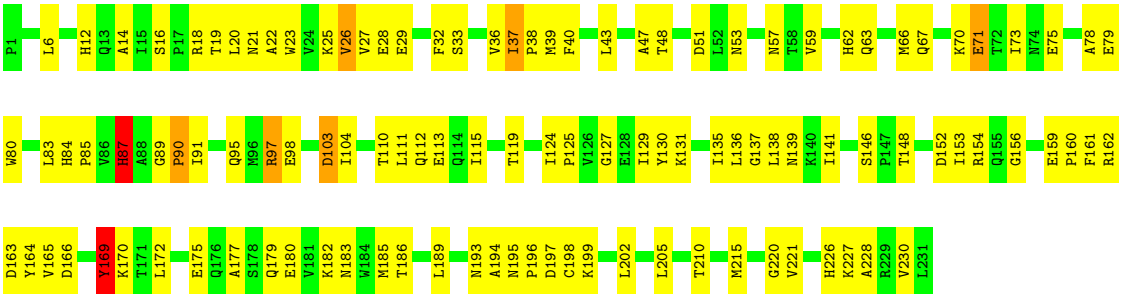
• Molecule 1: capsid protein

Chain gB:



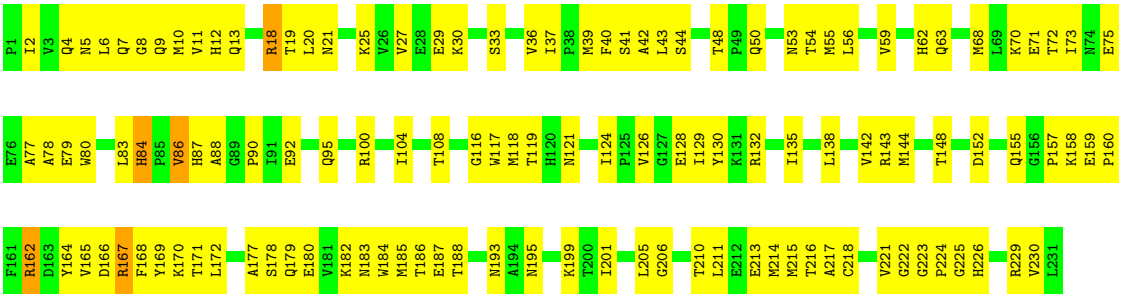
• Molecule 1: capsid protein

Chain 1E:



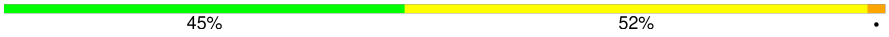
• Molecule 1: capsid protein

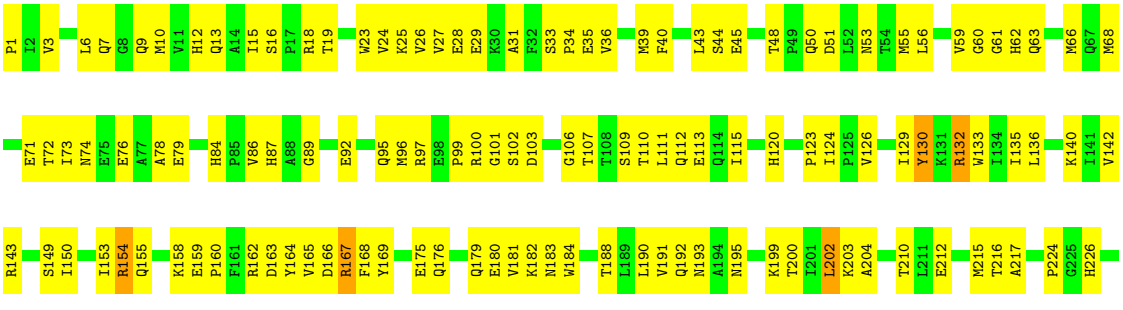
Chain gC:



• Molecule 1: capsid protein

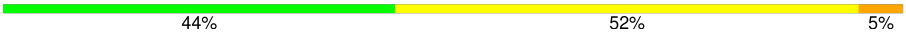
Chain gD:

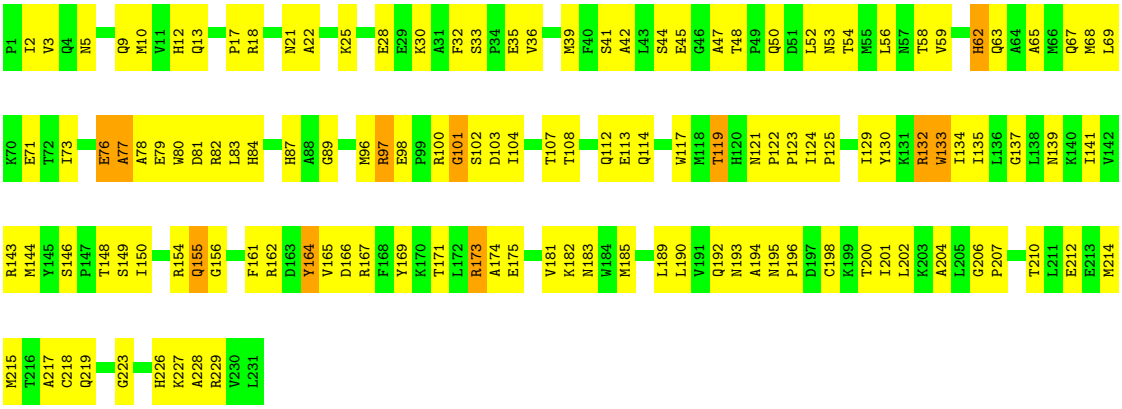




• Molecule 1: capsid protein

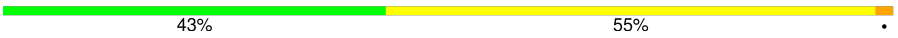
Chain gE:

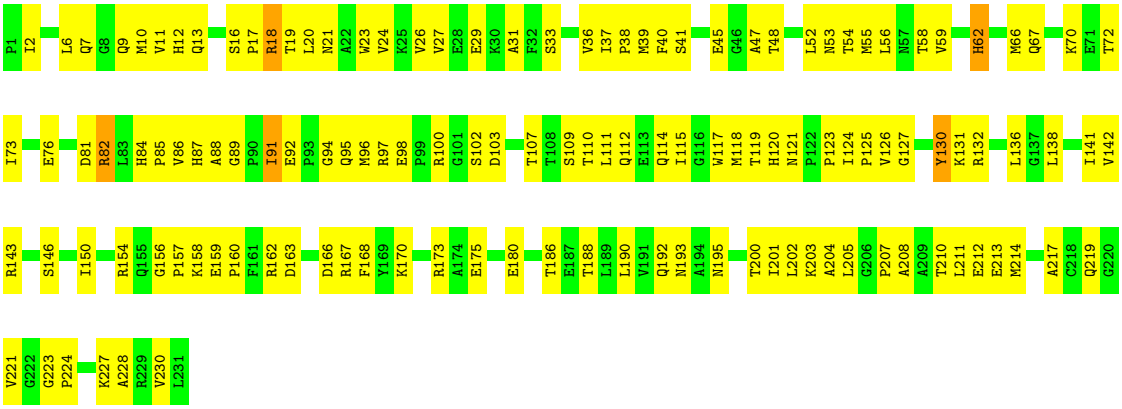




• Molecule 1: capsid protein

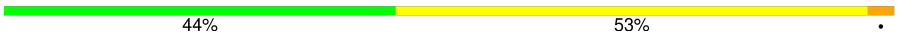
Chain gF:

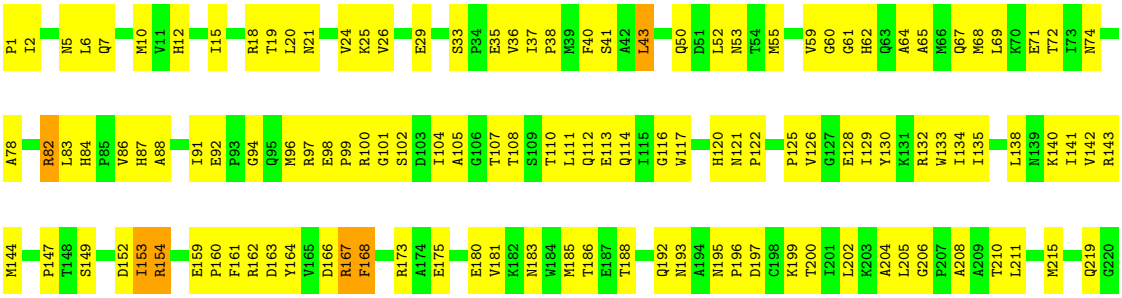


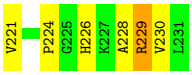


• Molecule 1: capsid protein

Chain gG:





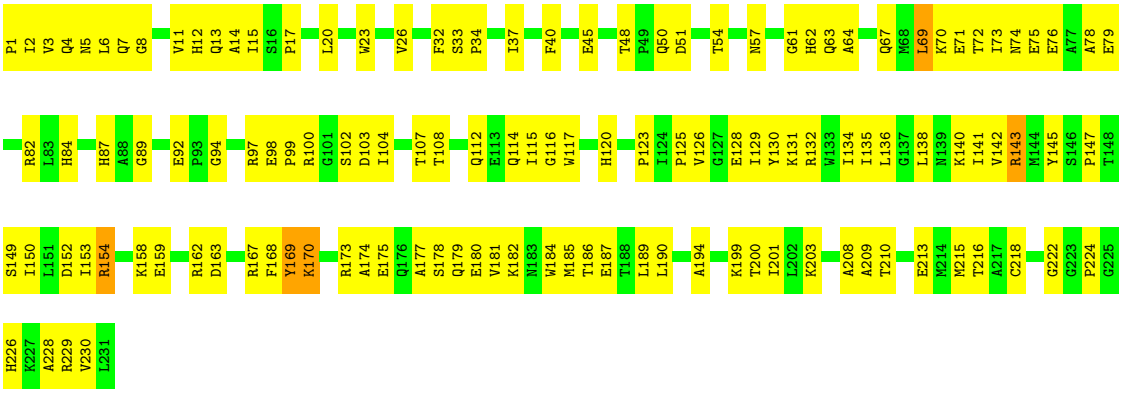


• Molecule 1: capsid protein

Chain gH:

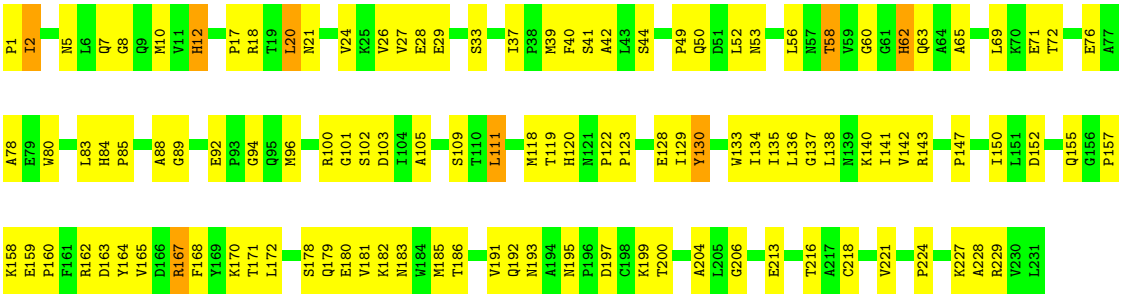
• Molecule 1: capsid protein

Chain gI:



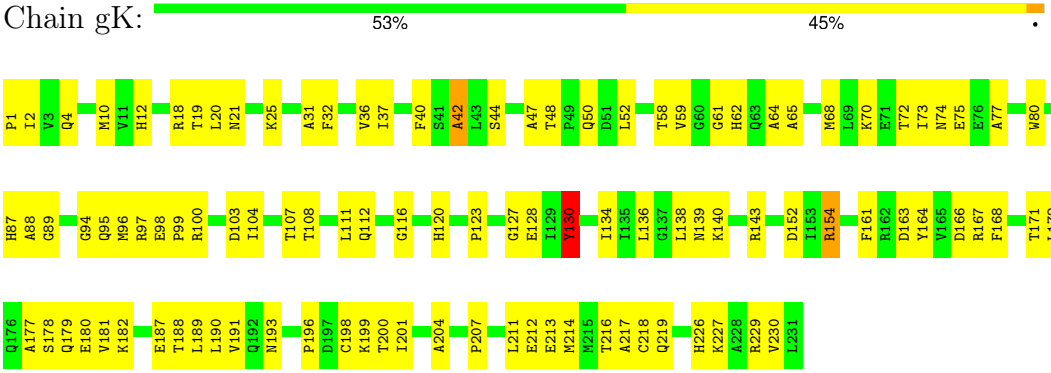
• Molecule 1: capsid protein

Chain gJ:



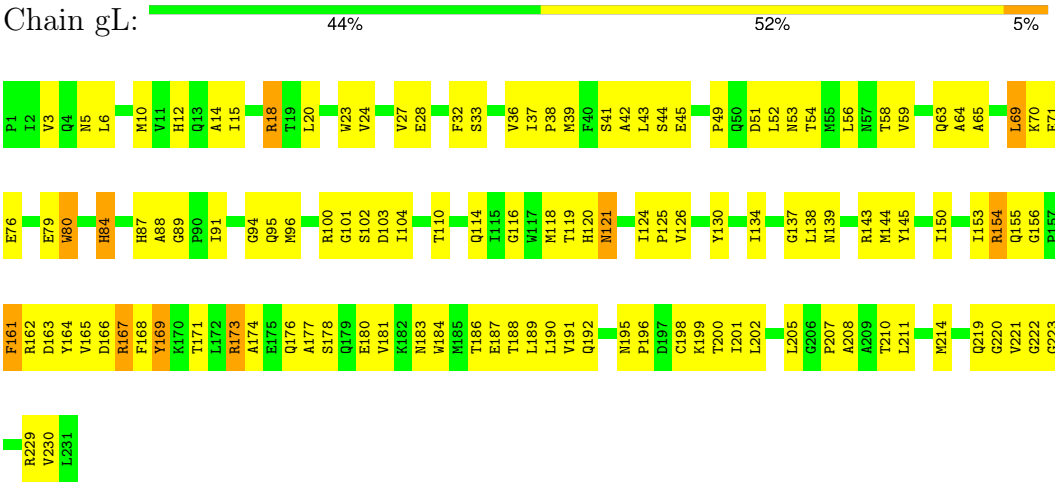
• Molecule 1: capsid protein

Chain gK:



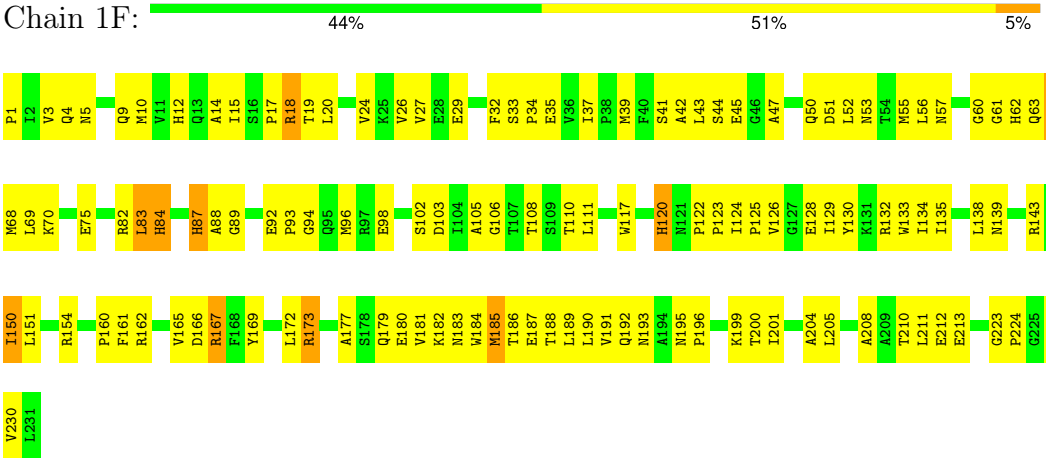
• Molecule 1: capsid protein

Chain gL:



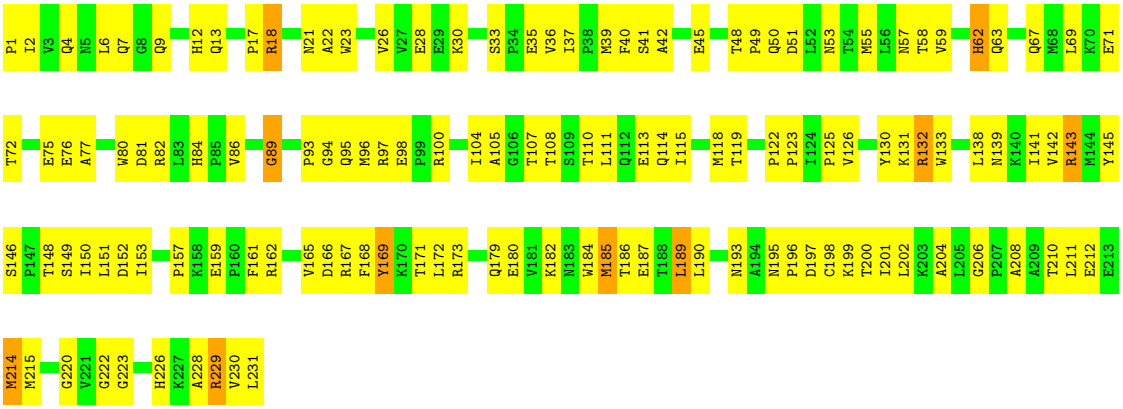
• Molecule 1: capsid protein

Chain 1F:



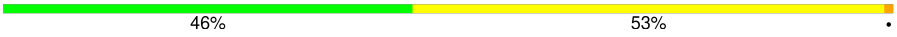
• Molecule 1: capsid protein

Chain gM:



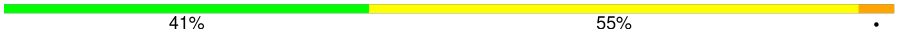
• Molecule 1: capsid protein

Chain gN:



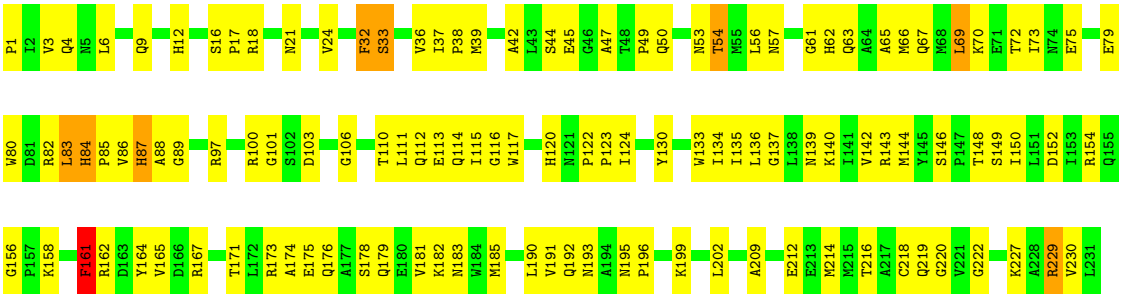
• Molecule 1: capsid protein

Chain gO:



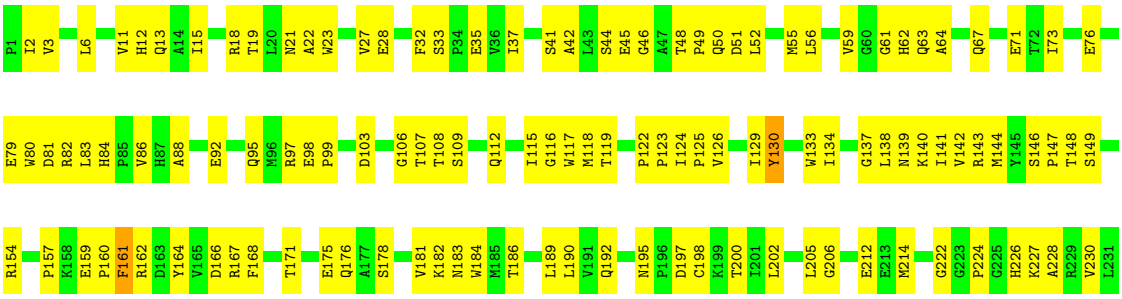
• Molecule 1: capsid protein

Chain gP:



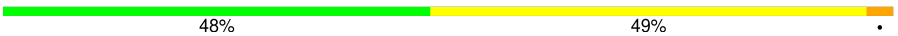
• Molecule 1: capsid protein

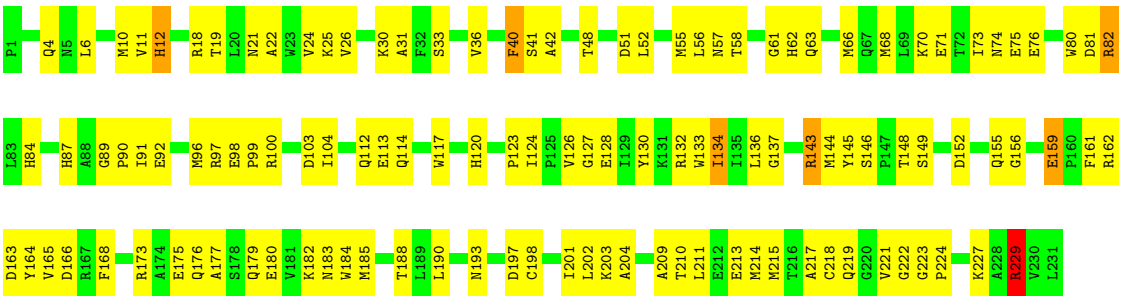
Chain gQ:



• Molecule 1: capsid protein

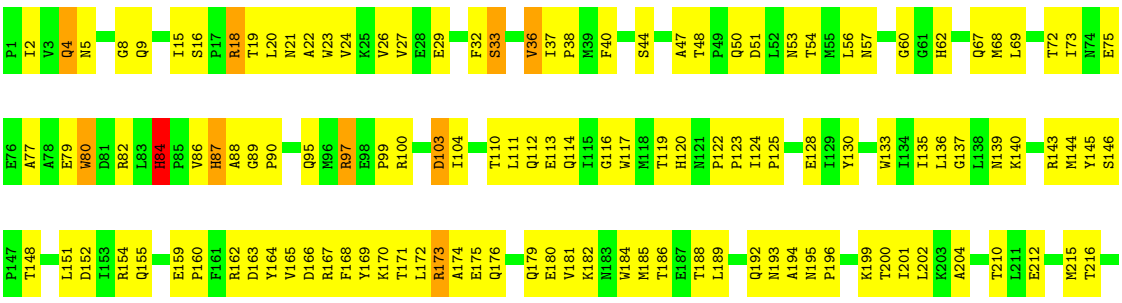
Chain gR:





• Molecule 1: capsid protein

Chain gS:

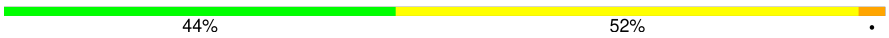


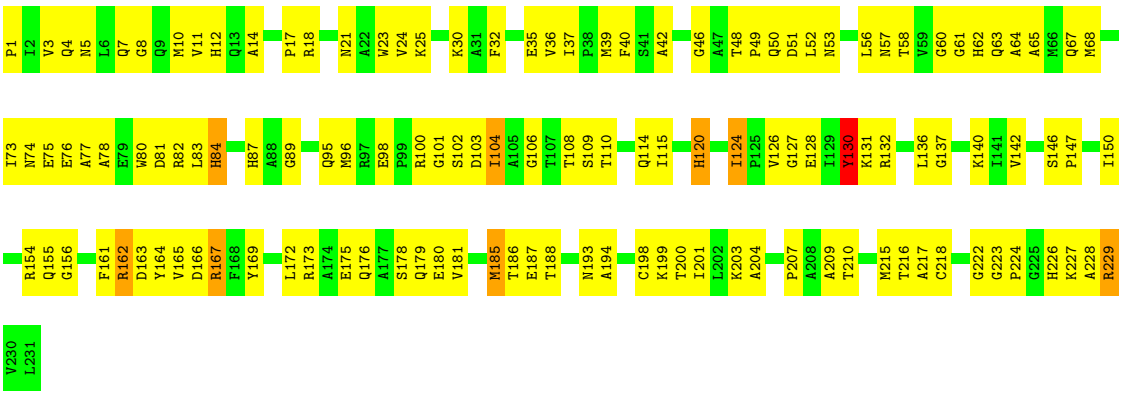
• Molecule 1: capsid protein

Chain gT:

• Molecule 1: capsid protein

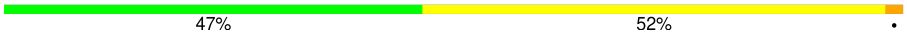
Chain gU:





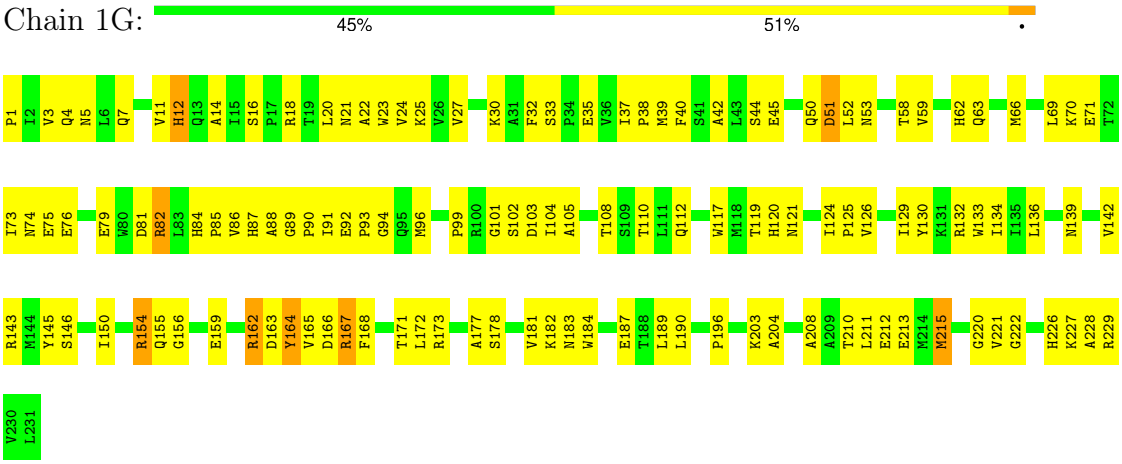
• Molecule 1: capsid protein

Chain gV:



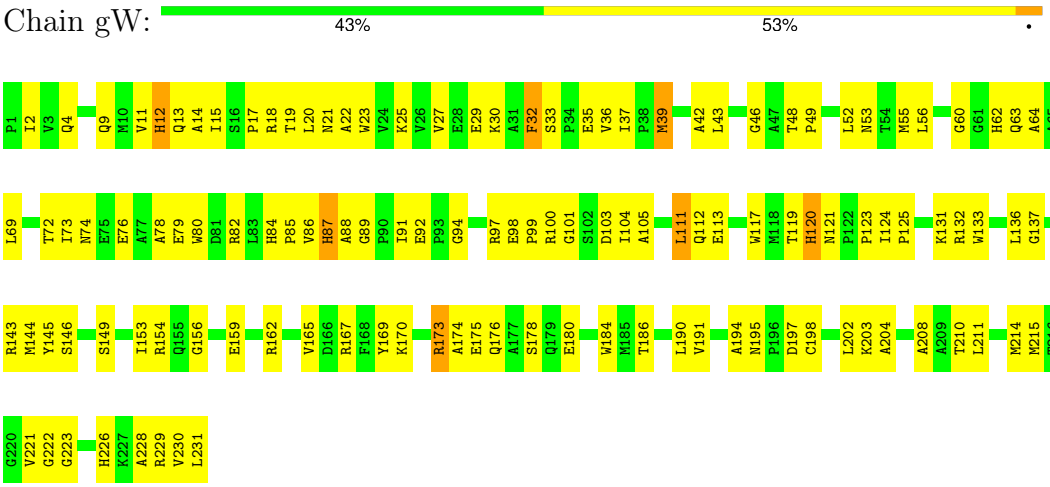
• Molecule 1: capsid protein

Chain 1G:



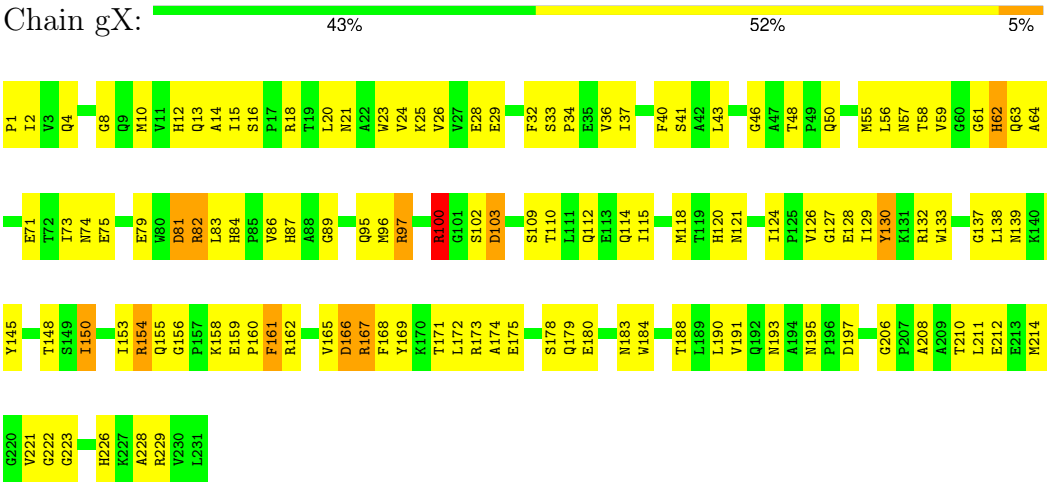
• Molecule 1: capsid protein

Chain gW:



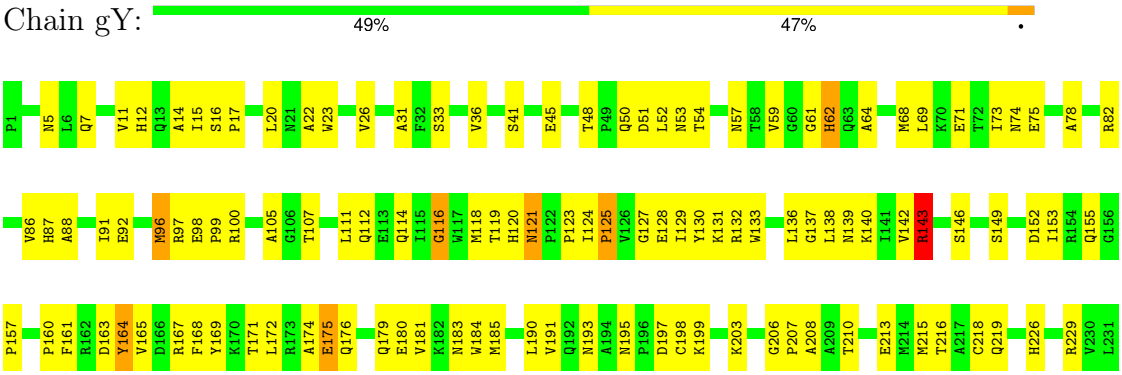
• Molecule 1: capsid protein

Chain gX:



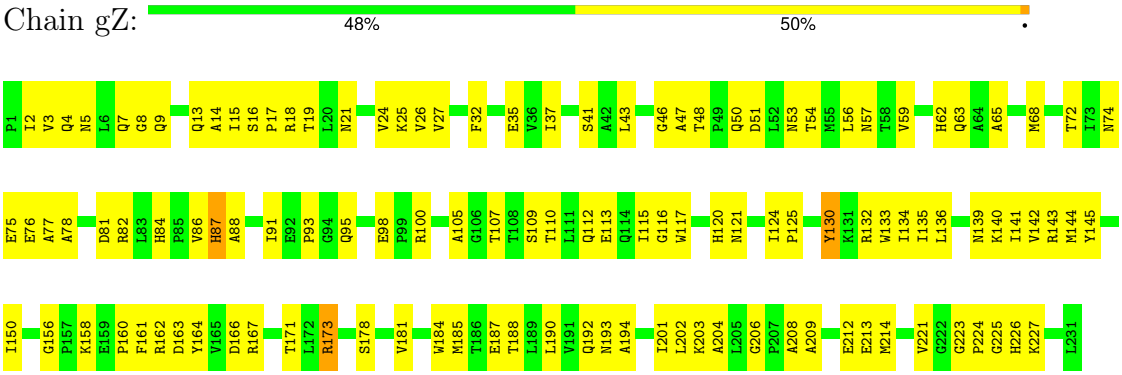
• Molecule 1: capsid protein

Chain gY:



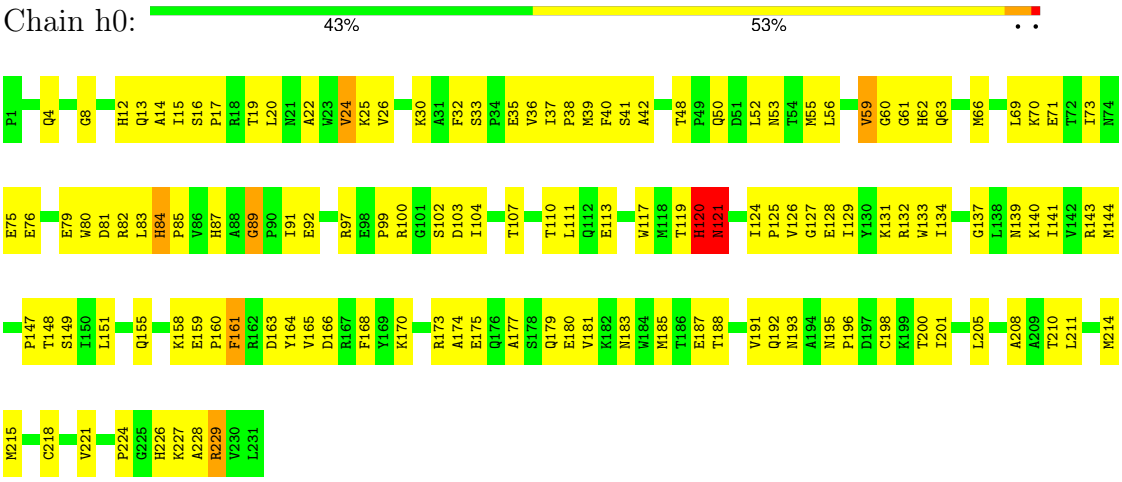
• Molecule 1: capsid protein

Chain gZ:



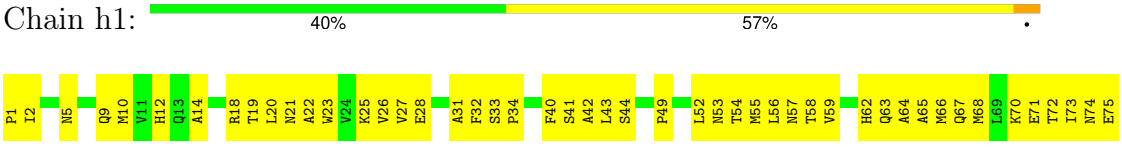
• Molecule 1: capsid protein

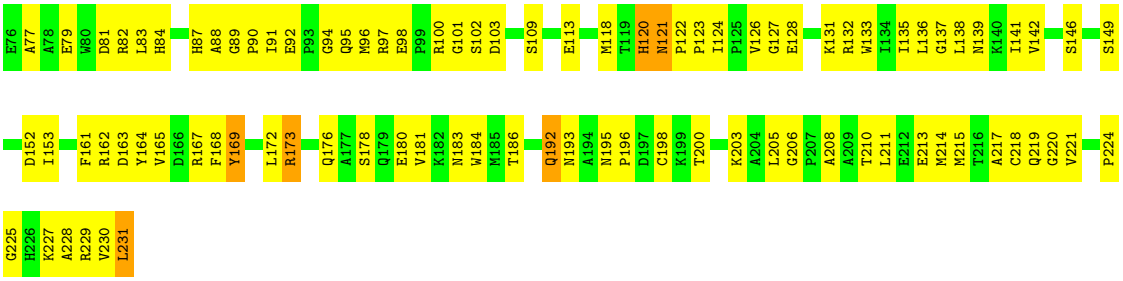
Chain h0:



• Molecule 1: capsid protein

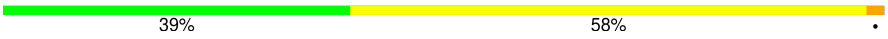
Chain h1:

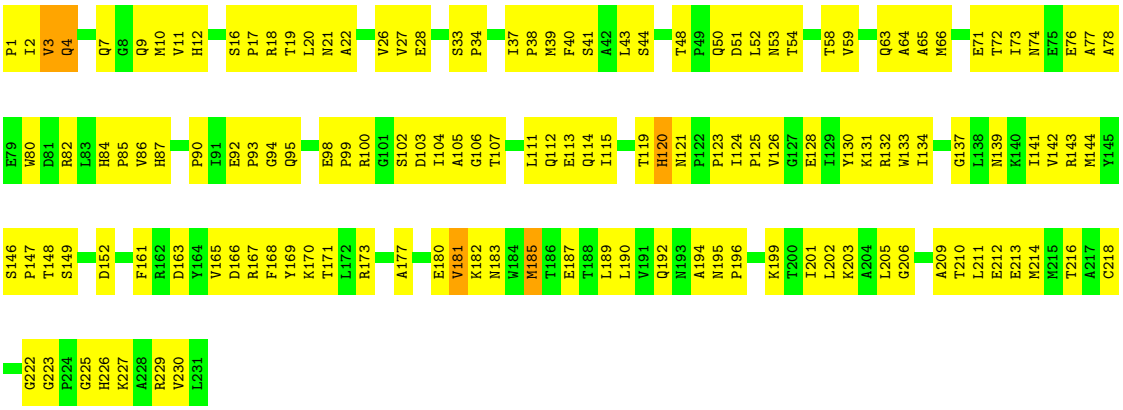




• Molecule 1: capsid protein

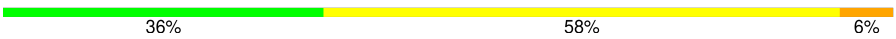
Chain h2:

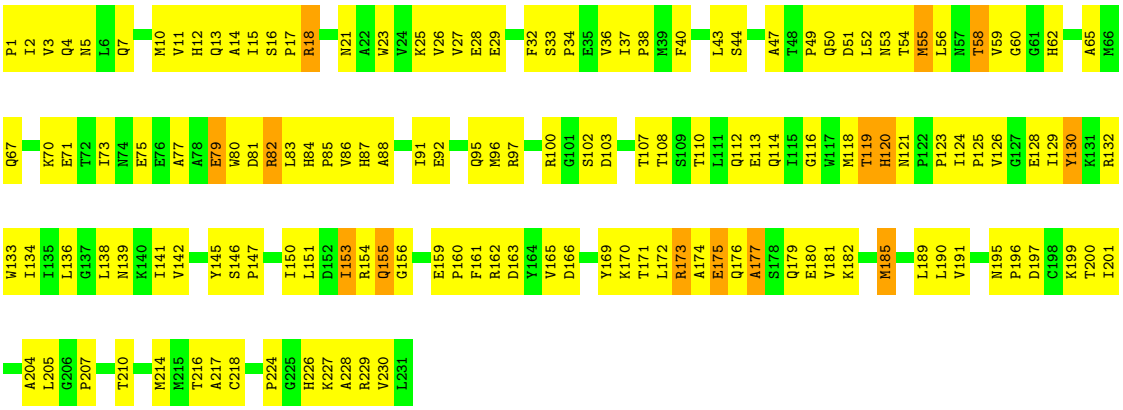




• Molecule 1: capsid protein

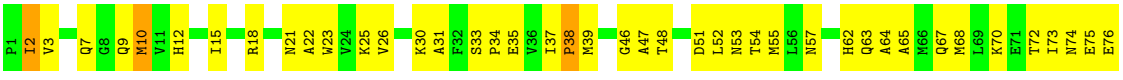
Chain h3:

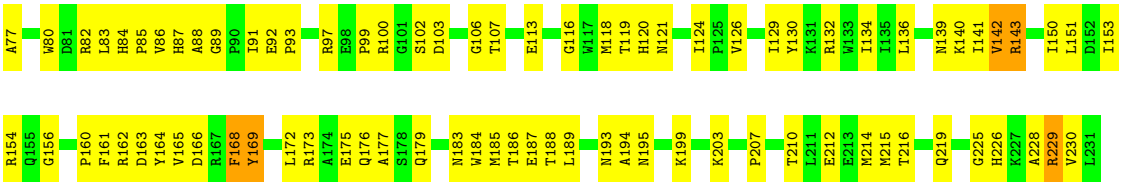




• Molecule 1: capsid protein

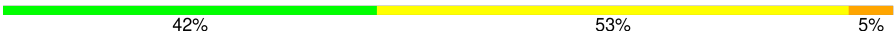
Chain h4:

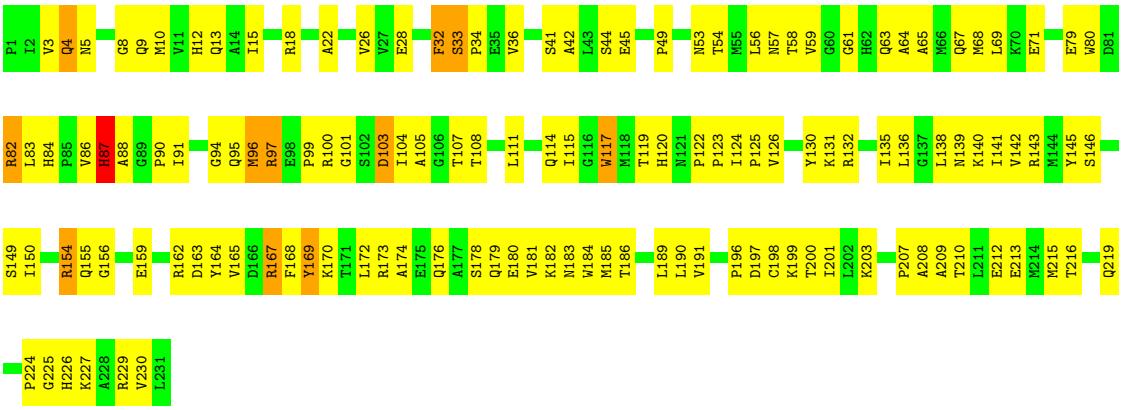




• Molecule 1: capsid protein

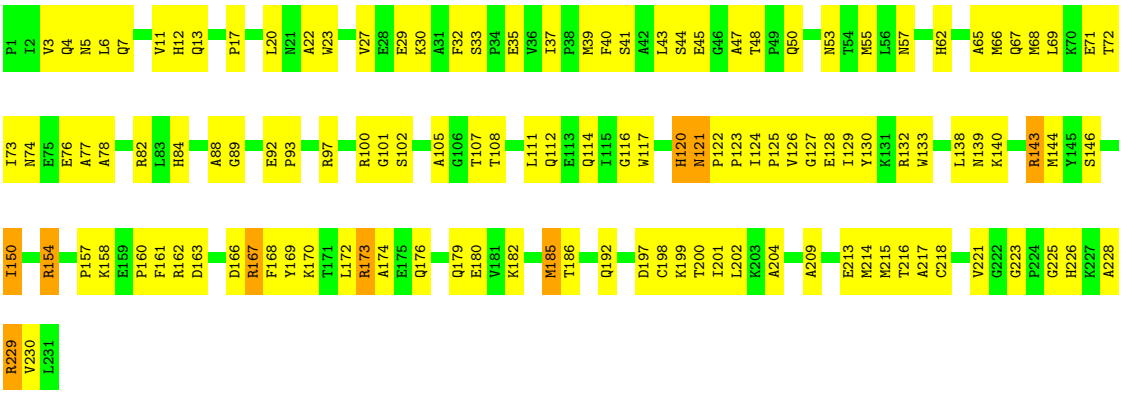
Chain h5:





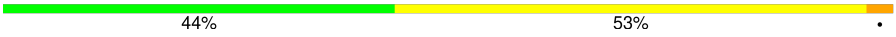
• Molecule 1: capsid protein

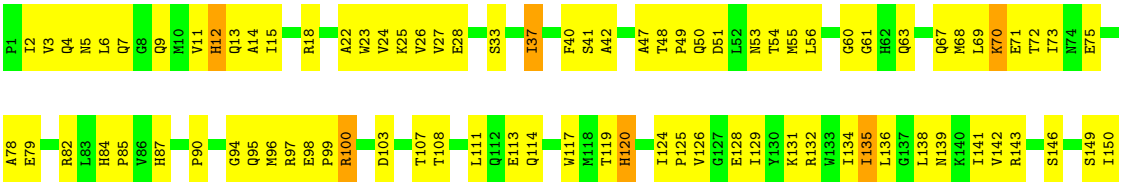
Chain 1H:

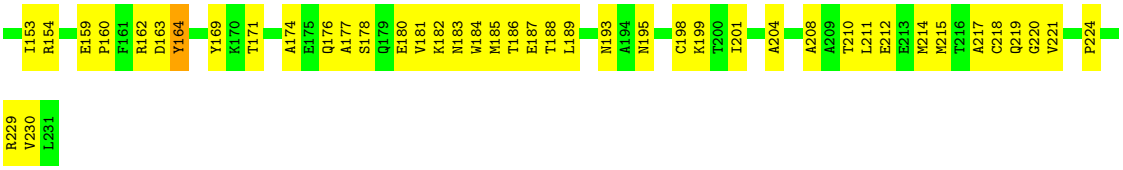


• Molecule 1: capsid protein

Chain h6:

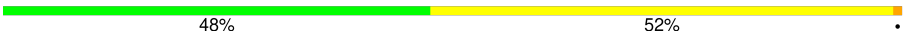


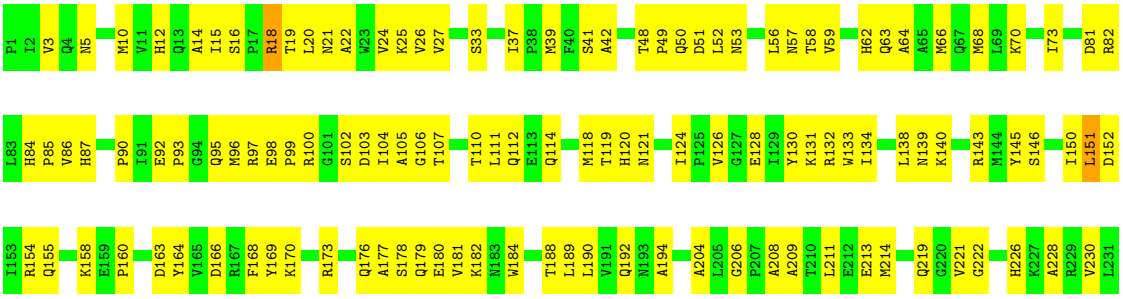




• Molecule 1: capsid protein

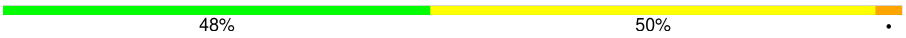
Chain h7:





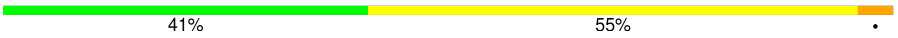
• Molecule 1: capsid protein

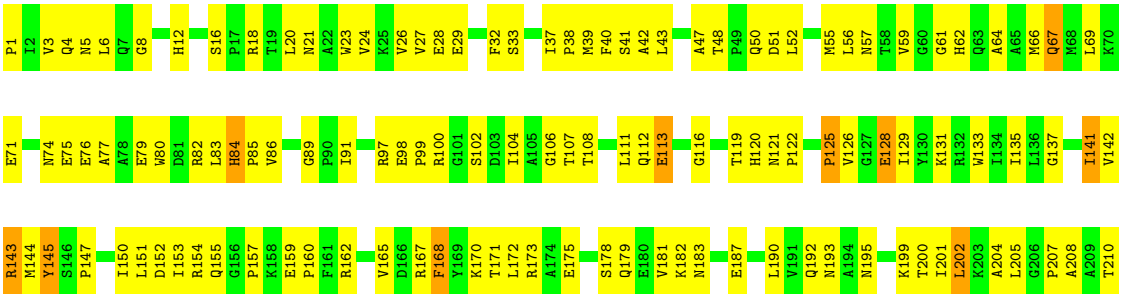
Chain h8:



• Molecule 1: capsid protein

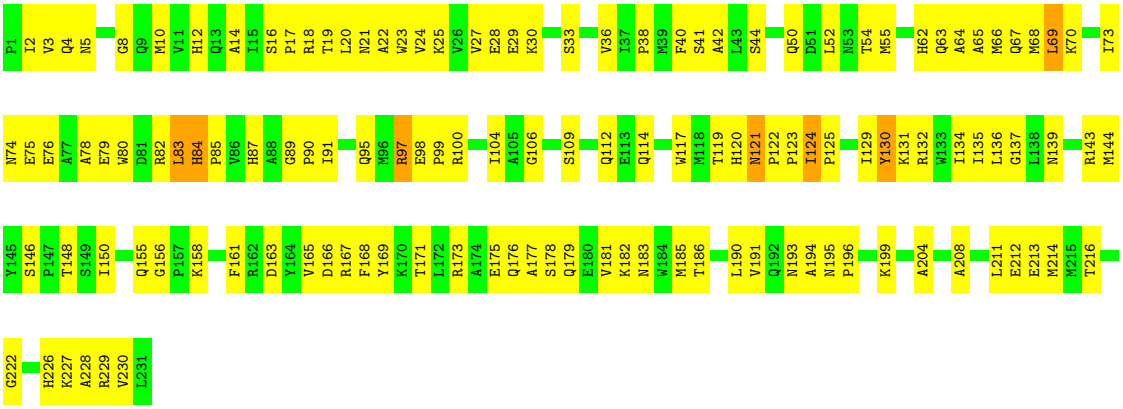
Chain h9:





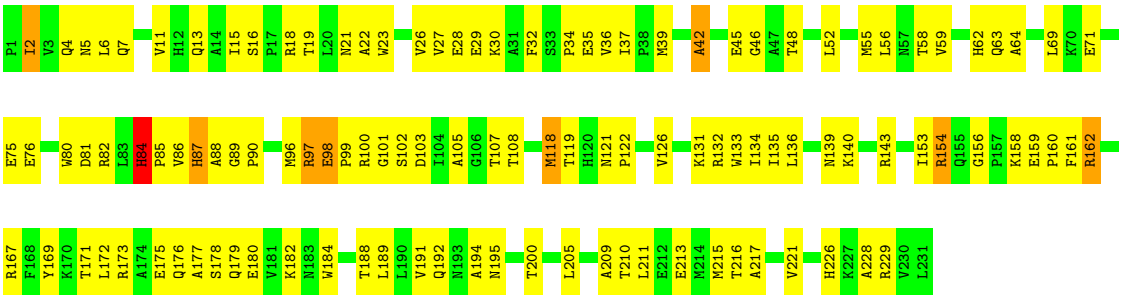
• Molecule 1: capsid protein

Chain ha:



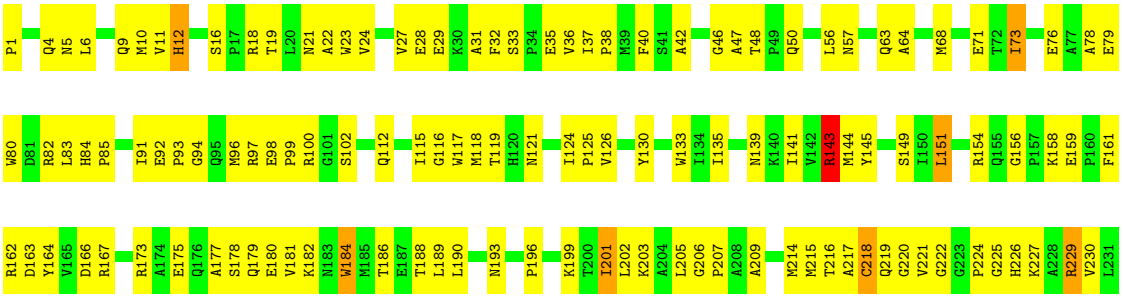
• Molecule 1: capsid protein

Chain hb:



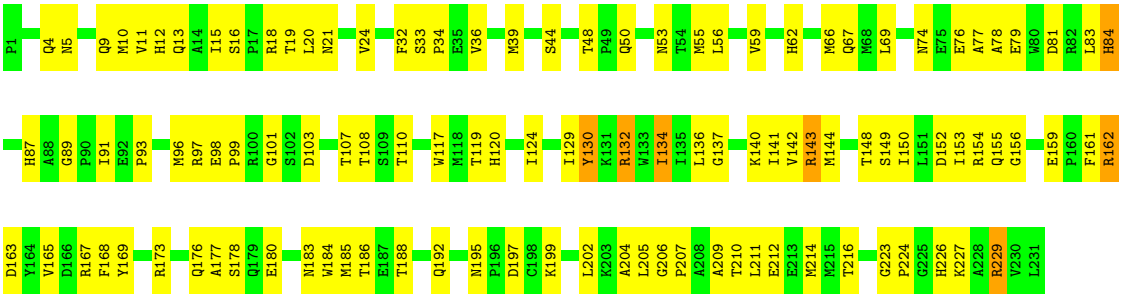
• Molecule 1: capsid protein

Chain hc:



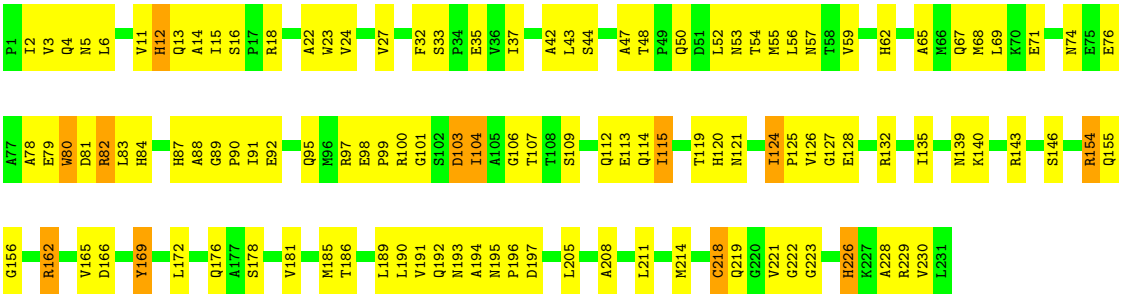
• Molecule 1: capsid protein

Chain hd:



• Molecule 1: capsid protein

Chain he:

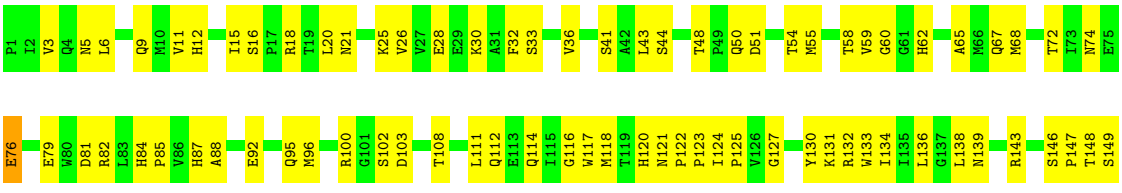


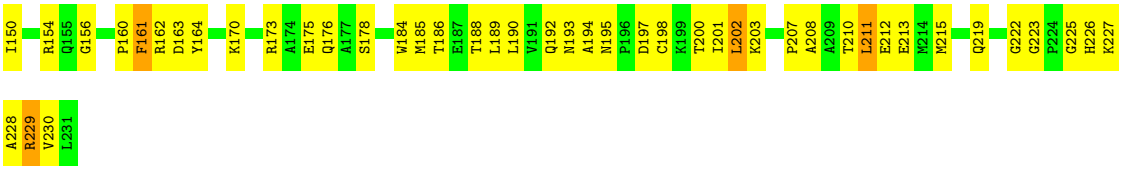
• Molecule 1: capsid protein

Chain hf:

• Molecule 1: capsid protein

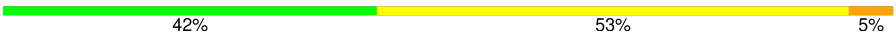
Chain 1I:





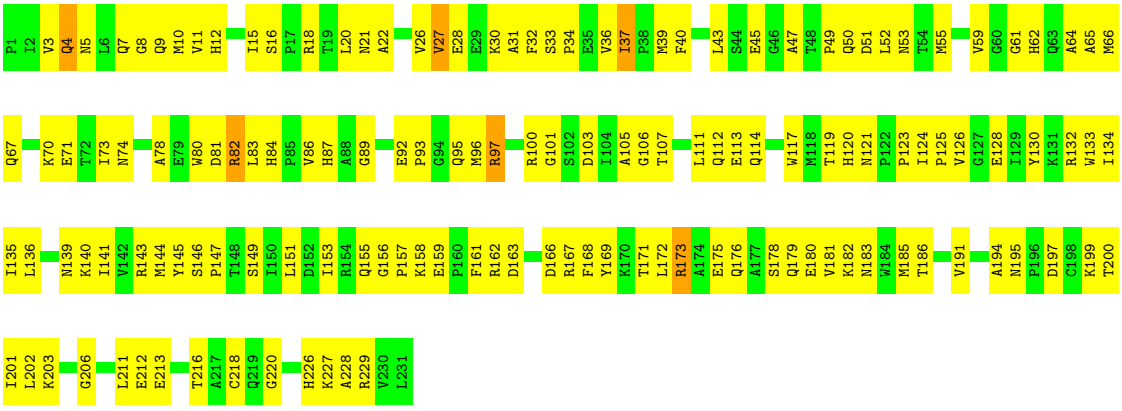
• Molecule 1: capsid protein

Chain hg:



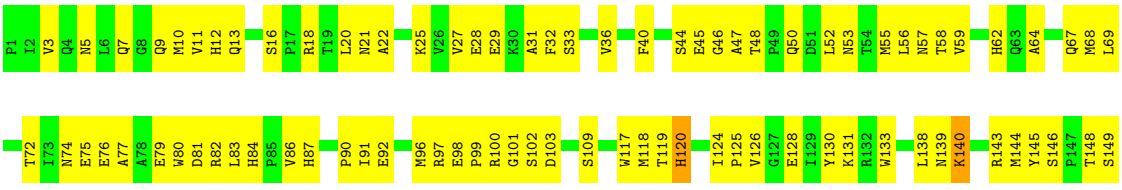
• Molecule 1: capsid protein

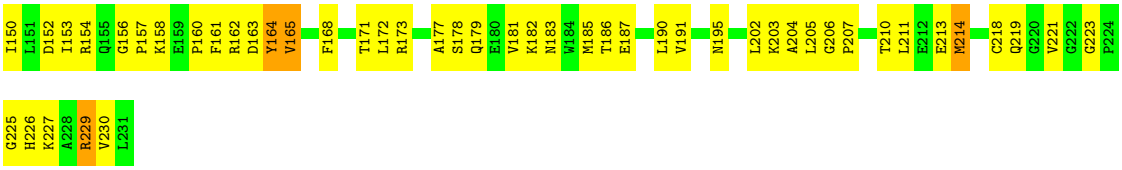
Chain hh:



• Molecule 1: capsid protein

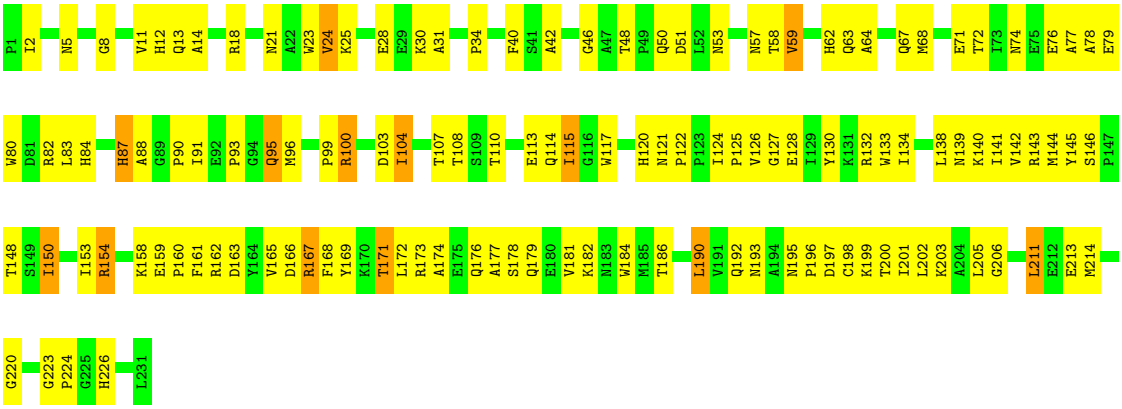
Chain hi:





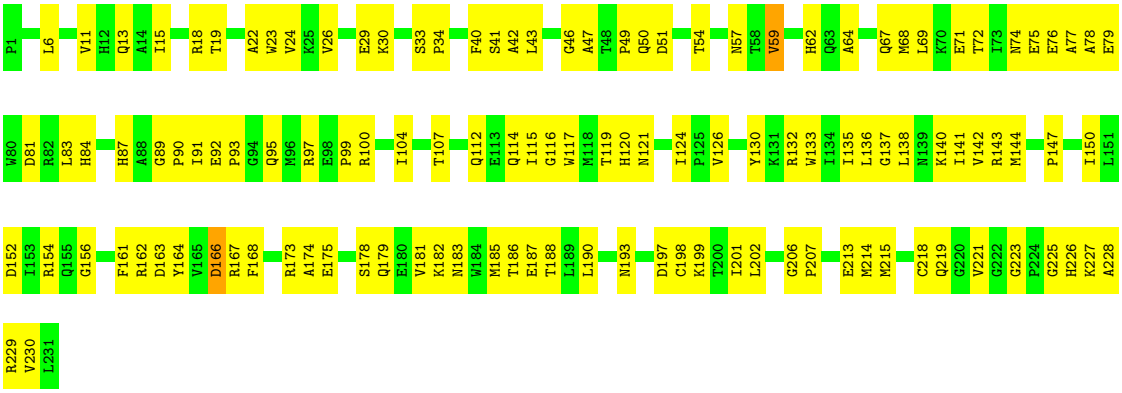
• Molecule 1: capsid protein

Chain hj:



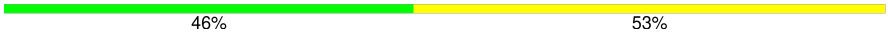
• Molecule 1: capsid protein

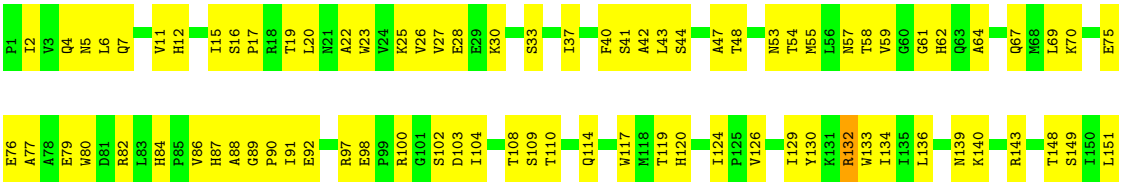
Chain hk:

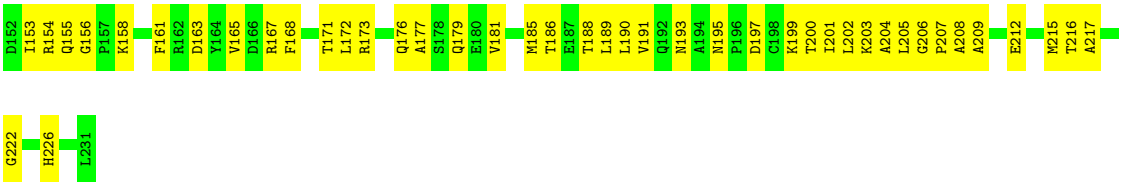


• Molecule 1: capsid protein

Chain hl:

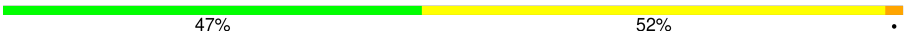


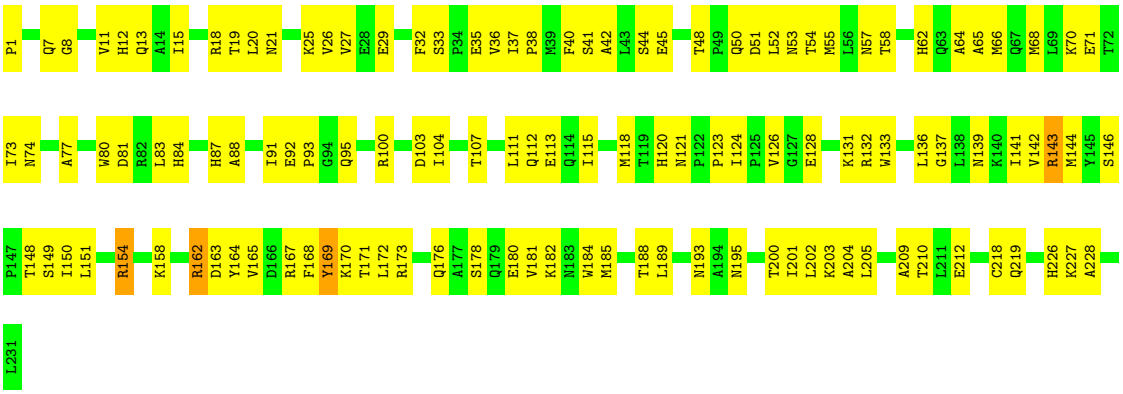




• Molecule 1: capsid protein

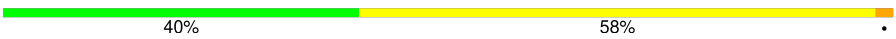
Chain hm:





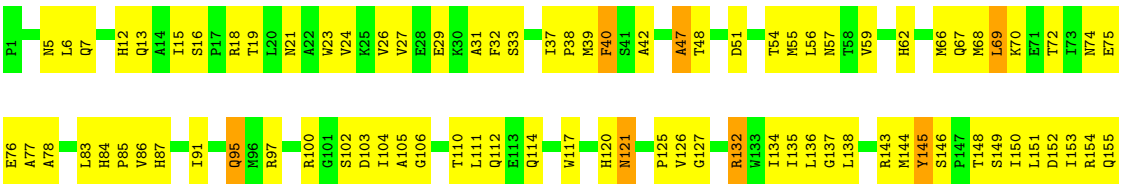
• Molecule 1: capsid protein

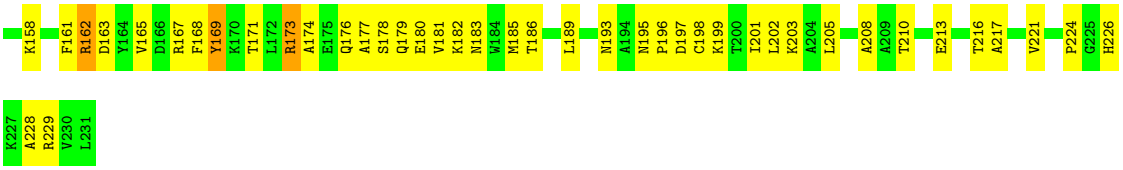
Chain hn:



• Molecule 1: capsid protein

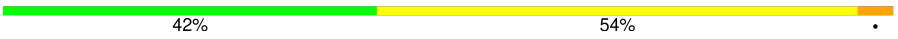
Chain ho:

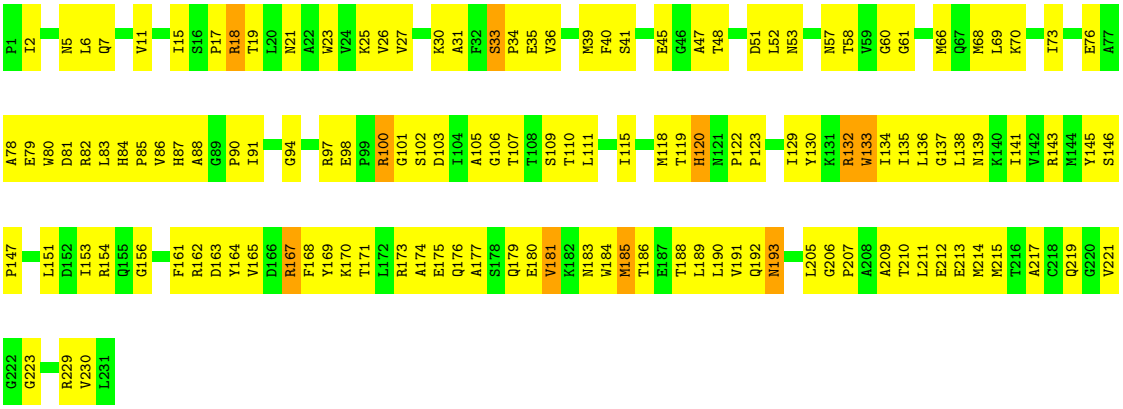




• Molecule 1: capsid protein

Chain hp:



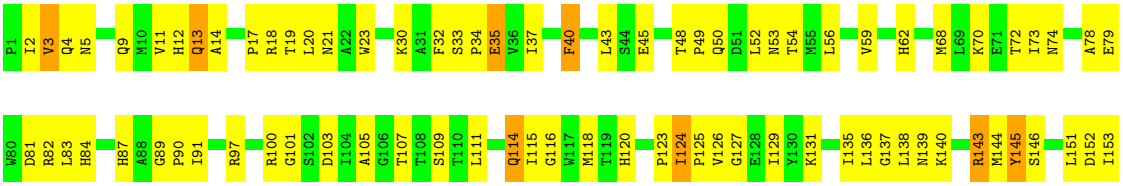


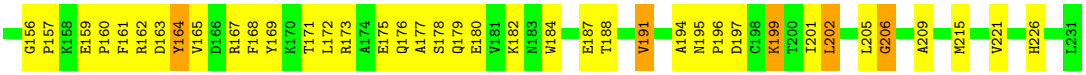
• Molecule 1: capsid protein

Chain 1J:

• Molecule 1: capsid protein

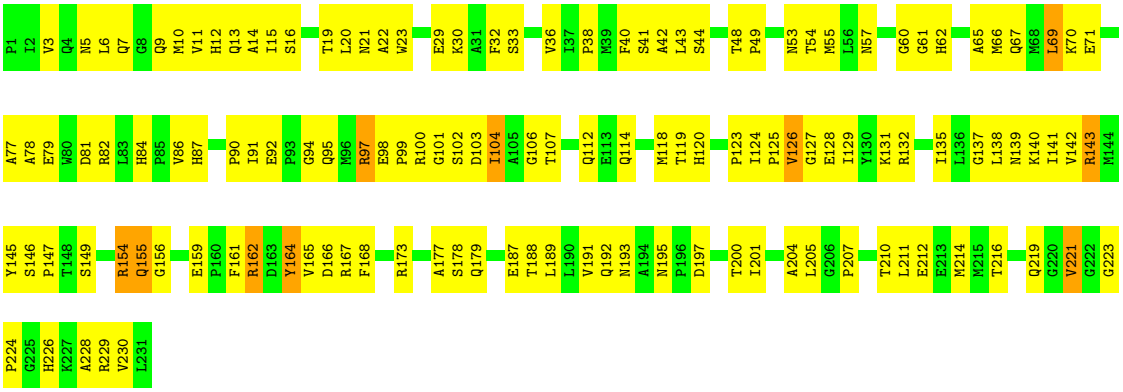
Chain hq:





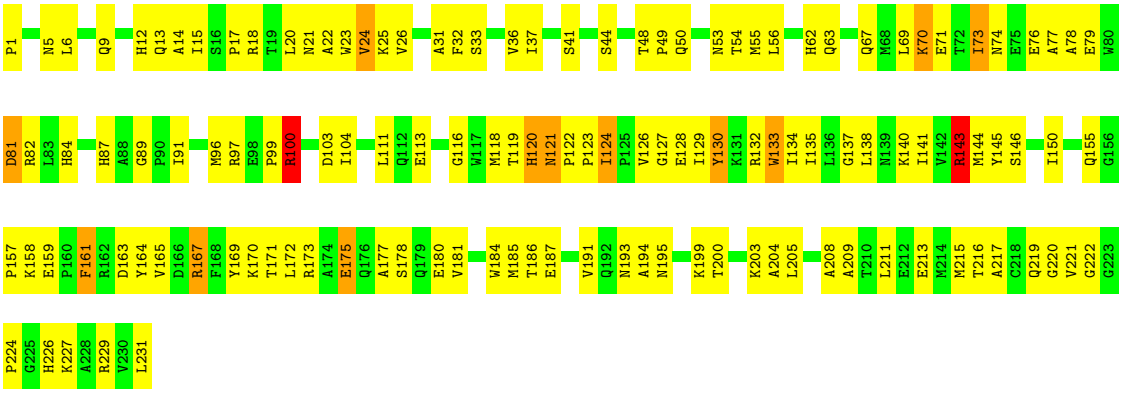
• Molecule 1: capsid protein

Chain hr:



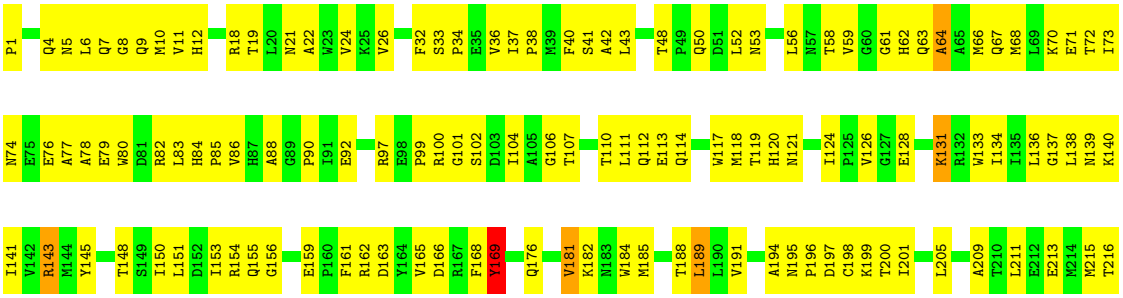
• Molecule 1: capsid protein

Chain hs:



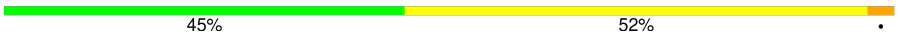
• Molecule 1: capsid protein

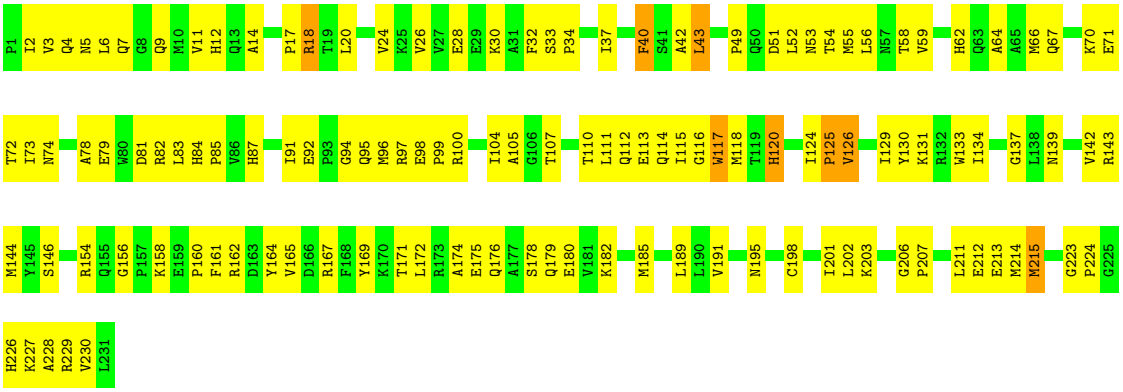
Chain ht:



• Molecule 1: capsid protein

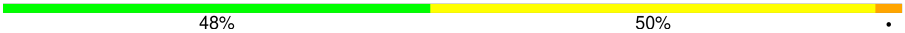
Chain hu:

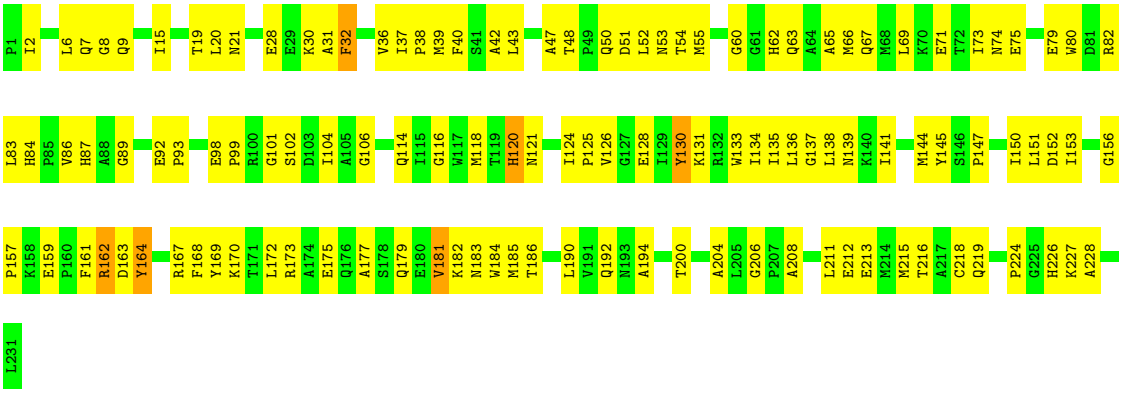




• Molecule 1: capsid protein

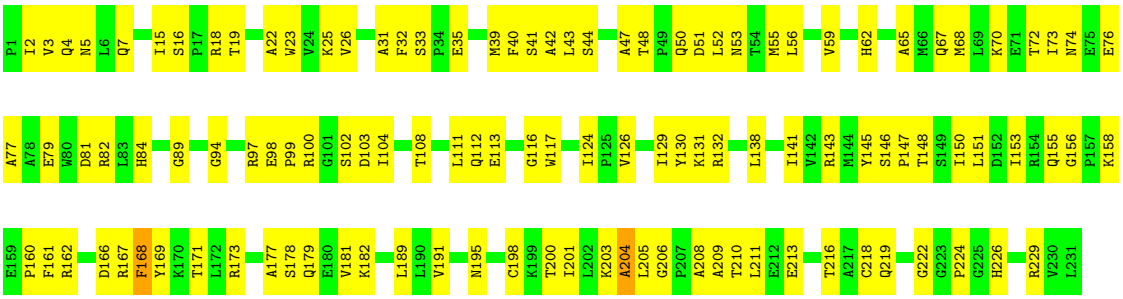
Chain hv:





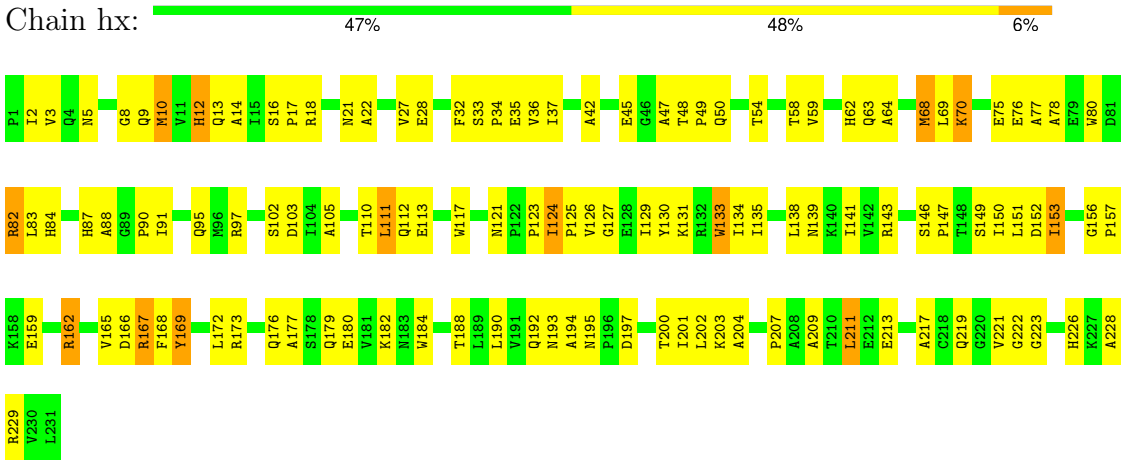
• Molecule 1: capsid protein

Chain hw:



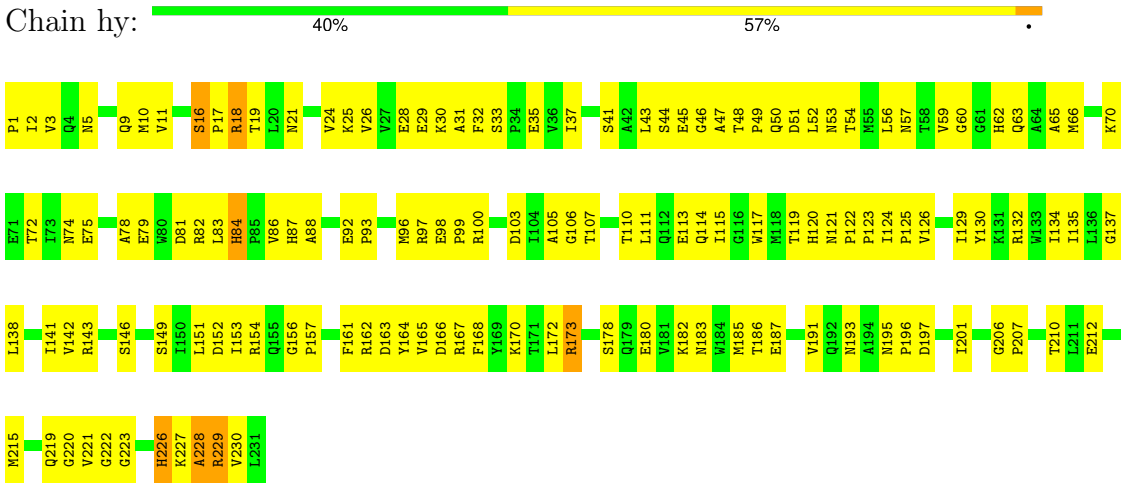
• Molecule 1: capsid protein

Chain hx:



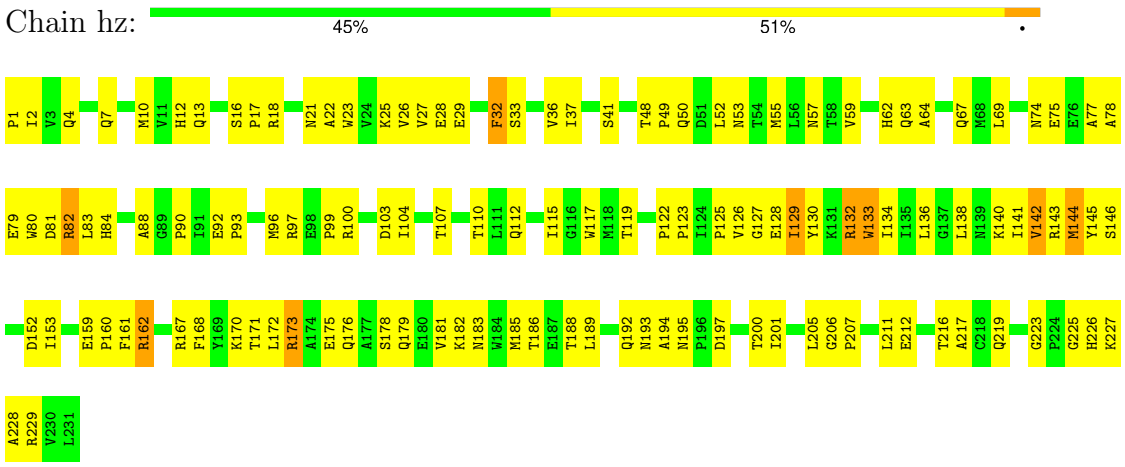
• Molecule 1: capsid protein

Chain hy:



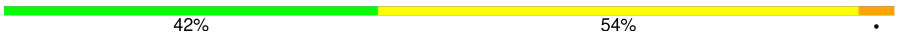
• Molecule 1: capsid protein

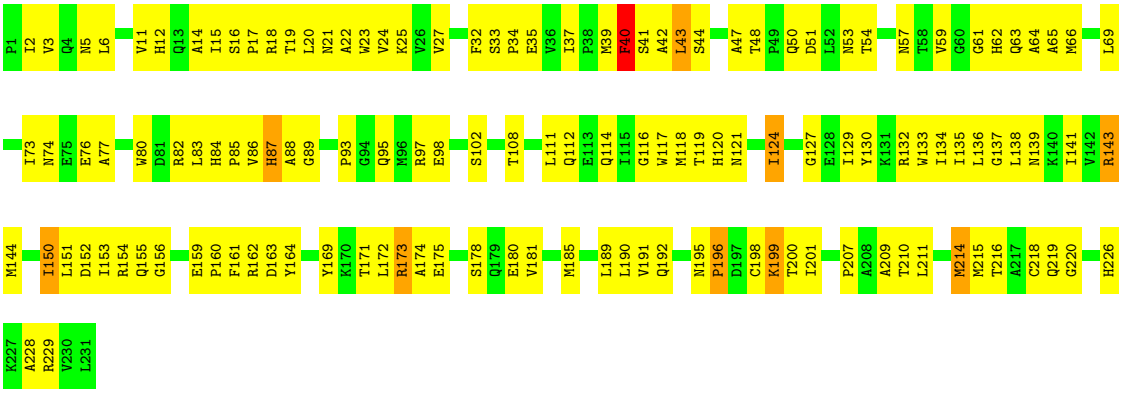
Chain hz:



• Molecule 1: capsid protein

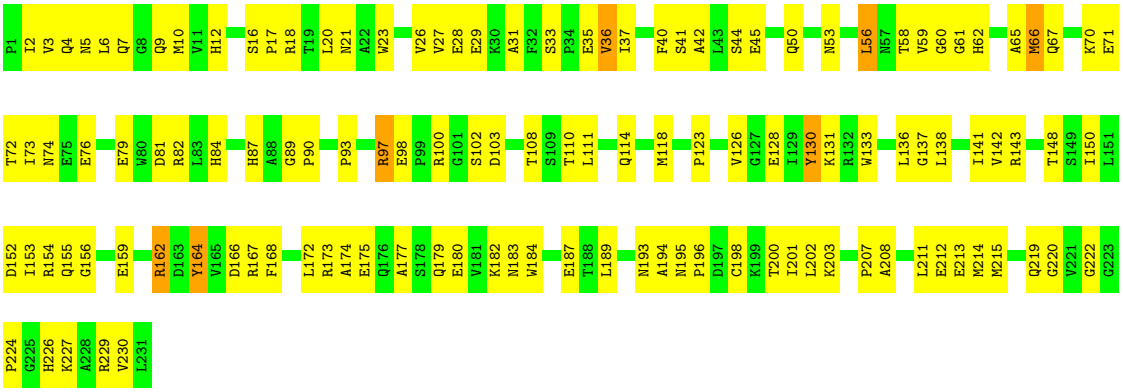
Chain 1K:





• Molecule 1: capsid protein

Chain hA:

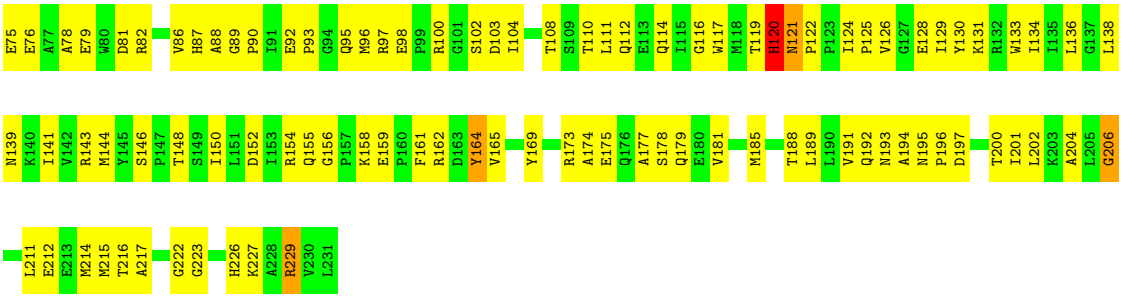


• Molecule 1: capsid protein

Chain hB:

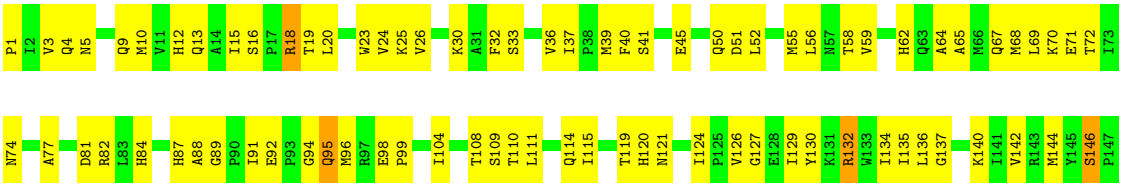
• Molecule 1: capsid protein

Chain hC:



• Molecule 1: capsid protein

Chain hD:

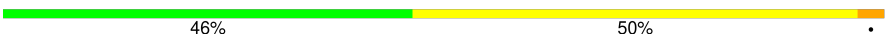


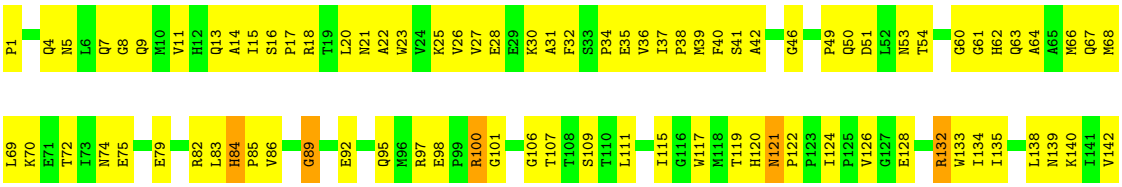
• Molecule 1: capsid protein

Chain hE:

• Molecule 1: capsid protein

Chain hF:



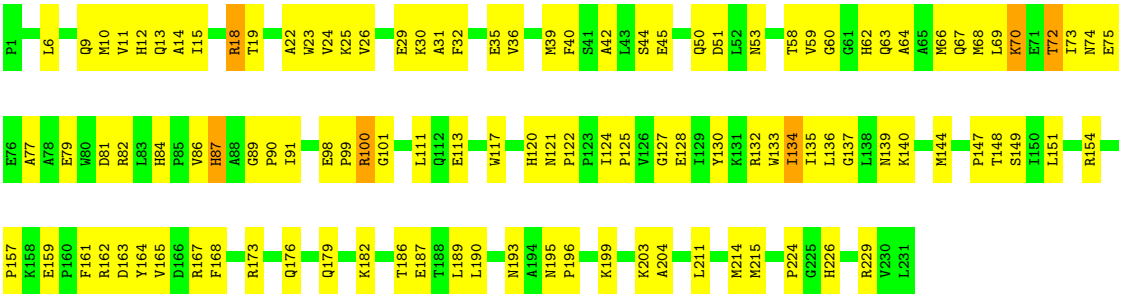


• Molecule 1: capsid protein

Chain hG:

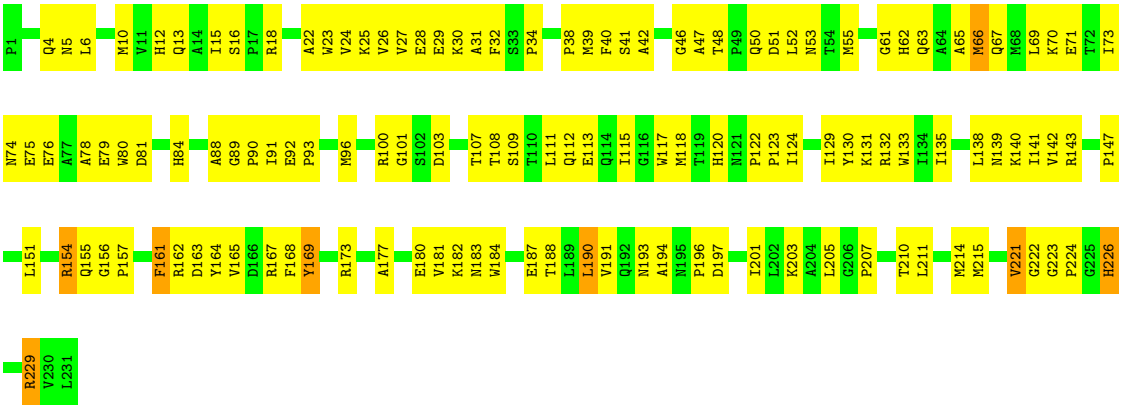
• Molecule 1: capsid protein

Chain hH:



• Molecule 1: capsid protein

Chain hI:



• Molecule 1: capsid protein

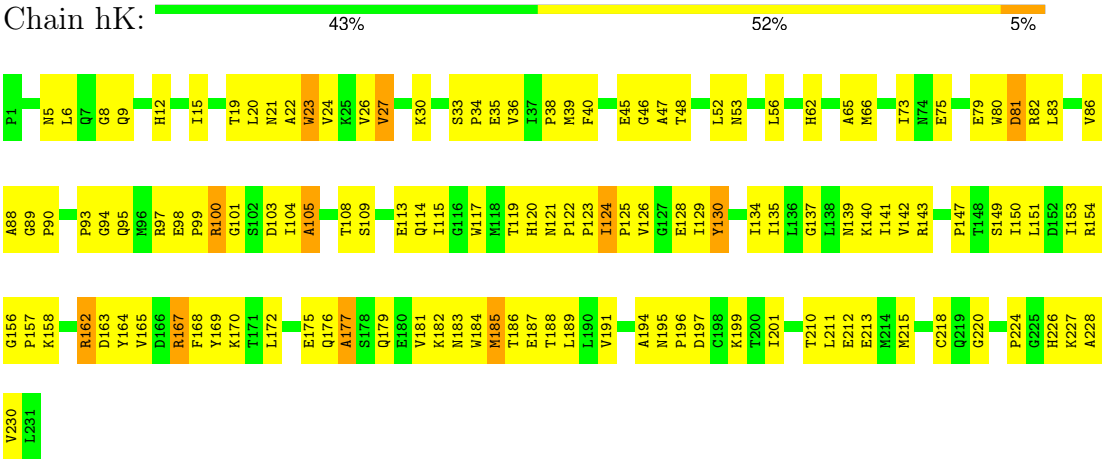
Chain hJ:

• Molecule 1: capsid protein

Chain 1L:

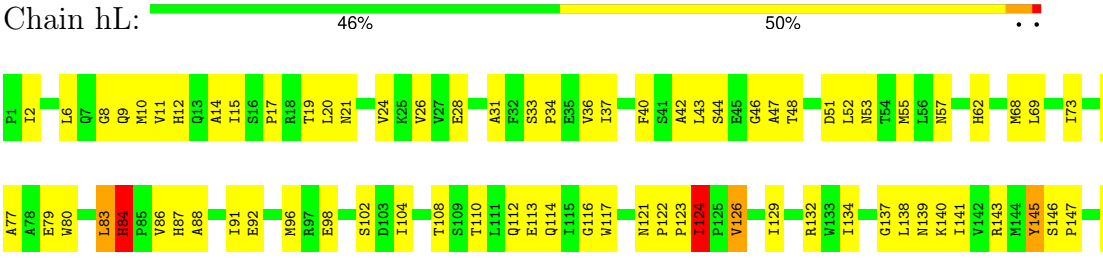
• Molecule 1: capsid protein

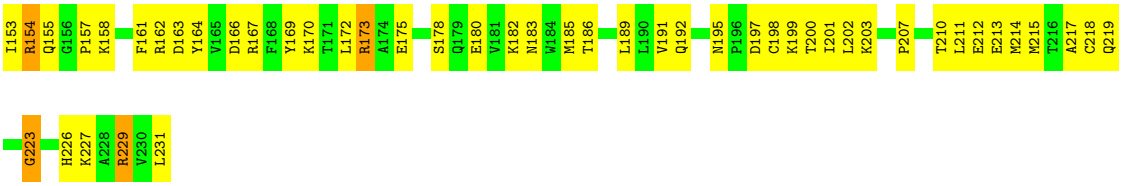
Chain hK:



• Molecule 1: capsid protein

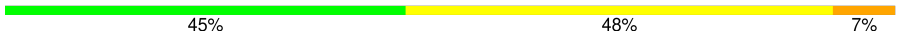
Chain hL:

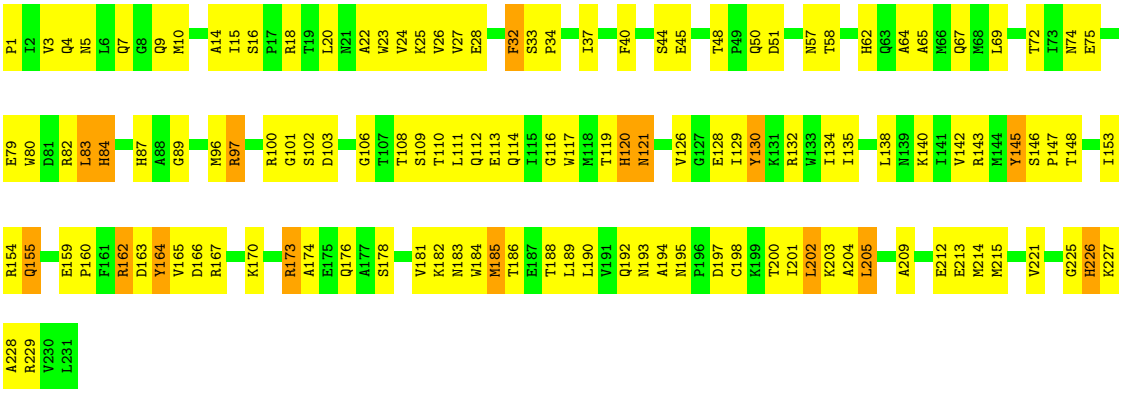




• Molecule 1: capsid protein

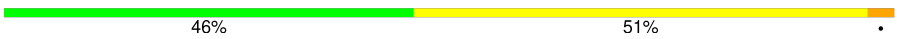
Chain hM:





• Molecule 1: capsid protein

Chain hN:

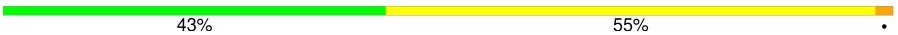


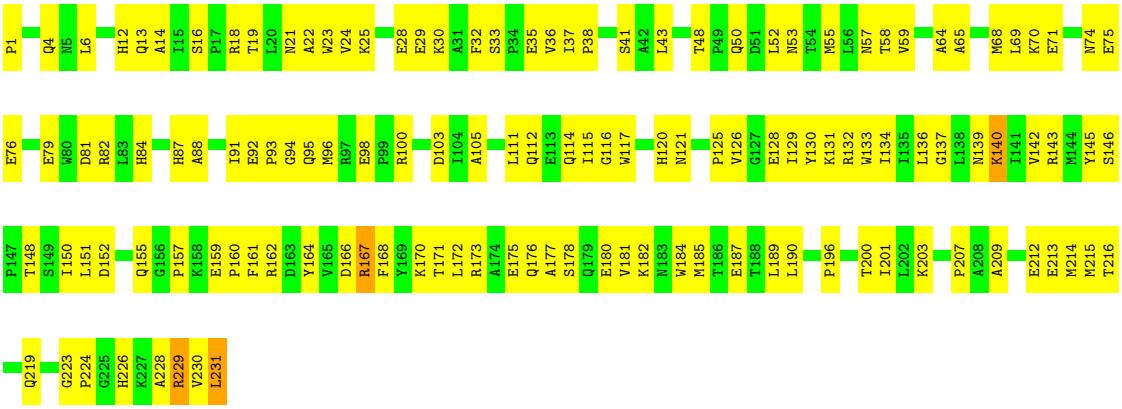
• Molecule 1: capsid protein

Chain hO:

• Molecule 1: capsid protein

Chain hP:



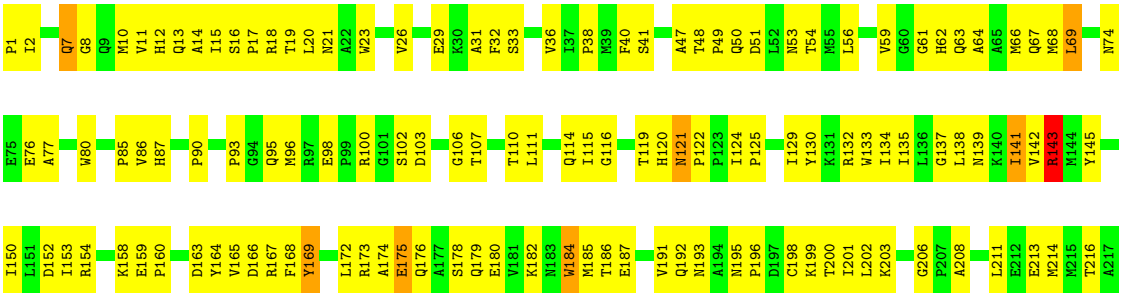


• Molecule 1: capsid protein

Chain hQ:

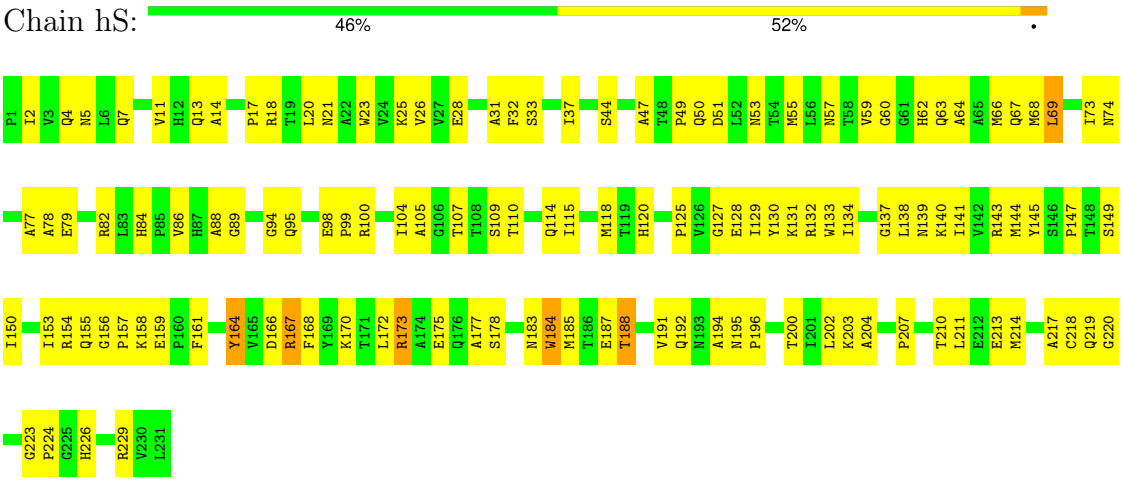
• Molecule 1: capsid protein

Chain hR:



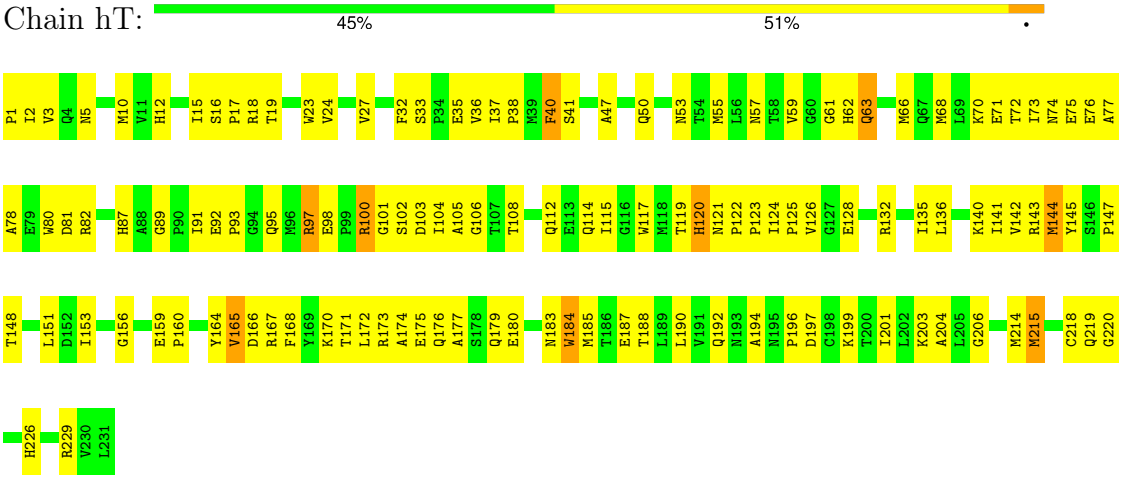
• Molecule 1: capsid protein

Chain hS:



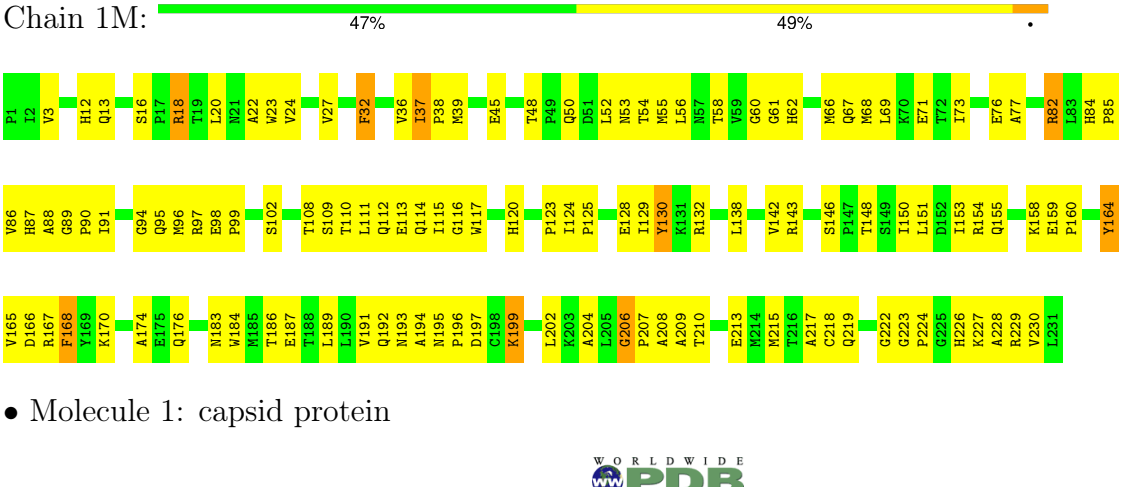
• Molecule 1: capsid protein

Chain hT:



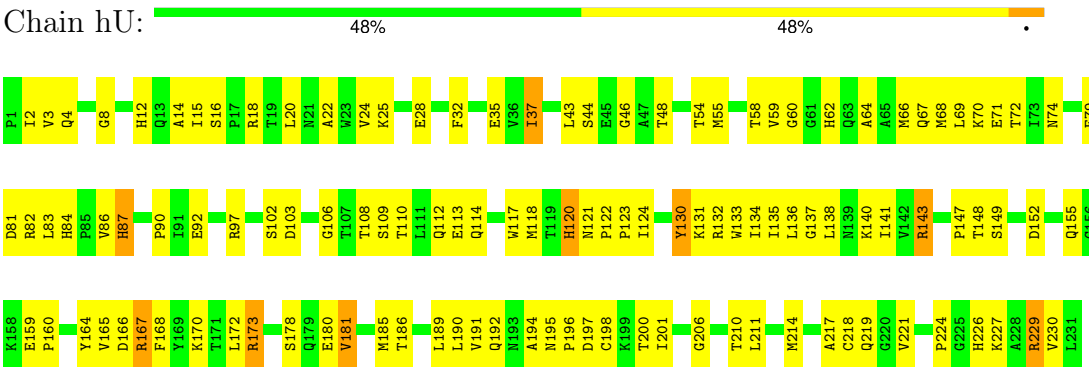
• Molecule 1: capsid protein

Chain 1M:



• Molecule 1: capsid protein

Chain hU:

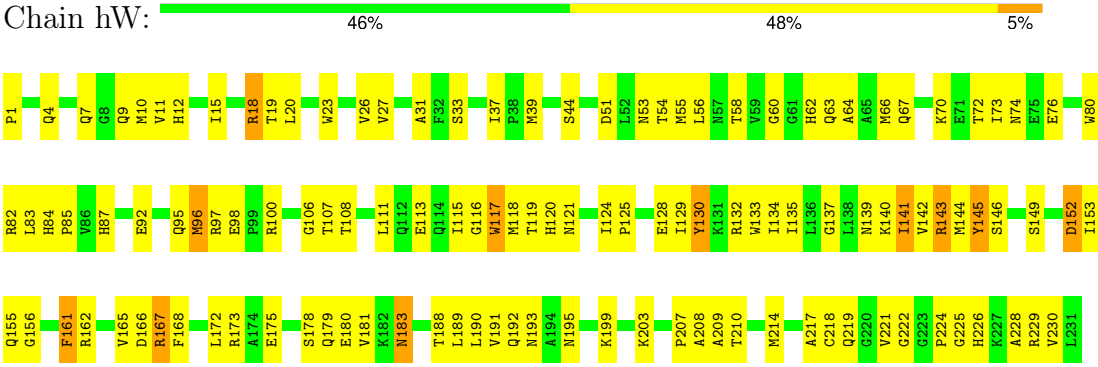


• Molecule 1: capsid protein

Chain hV:

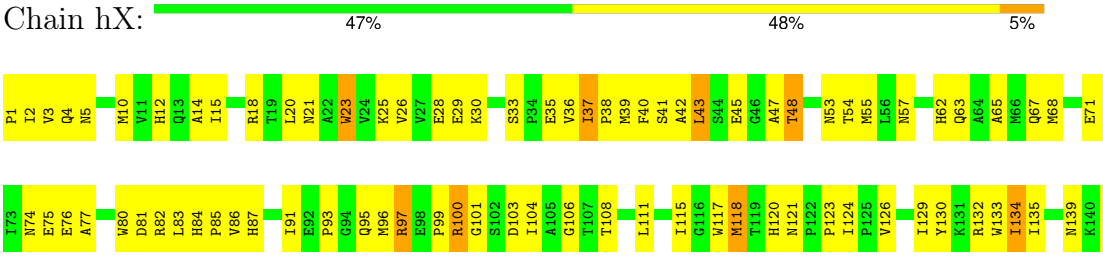
• Molecule 1: capsid protein

Chain hW:



• Molecule 1: capsid protein

Chain hX:

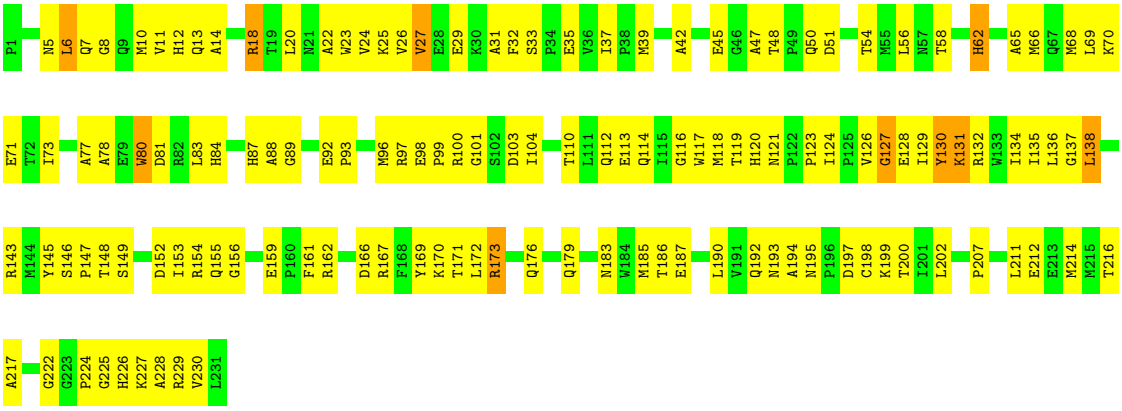


• Molecule 1: capsid protein

Chain hY:

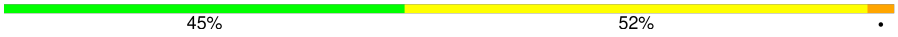
• Molecule 1: capsid protein

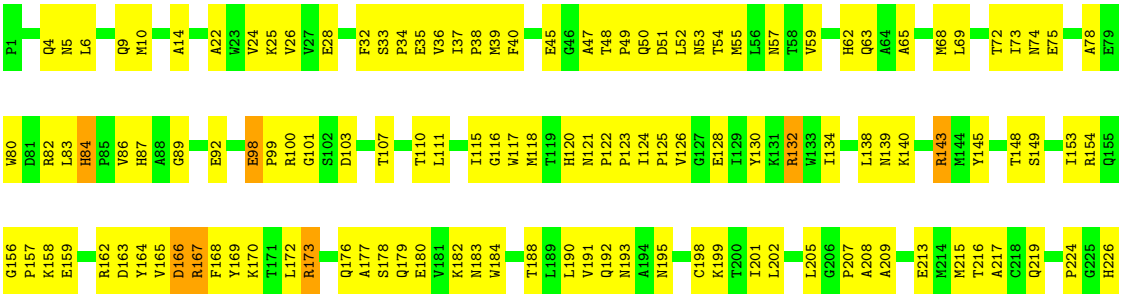
Chain hZ:



• Molecule 1: capsid protein

Chain i0:



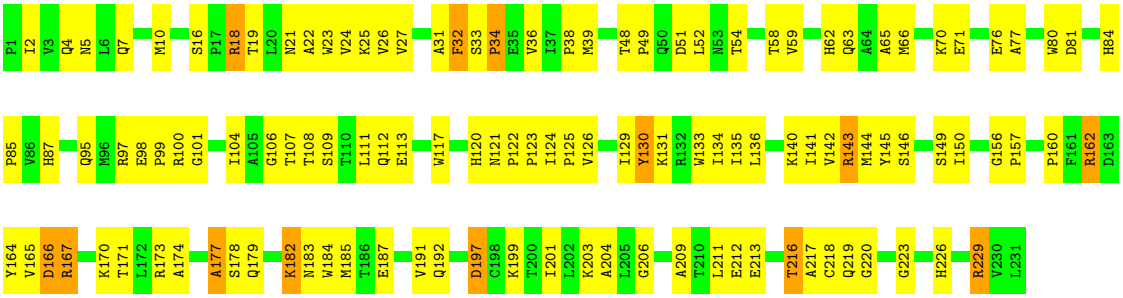


• Molecule 1: capsid protein

Chain i1:

• Molecule 1: capsid protein

Chain i2:

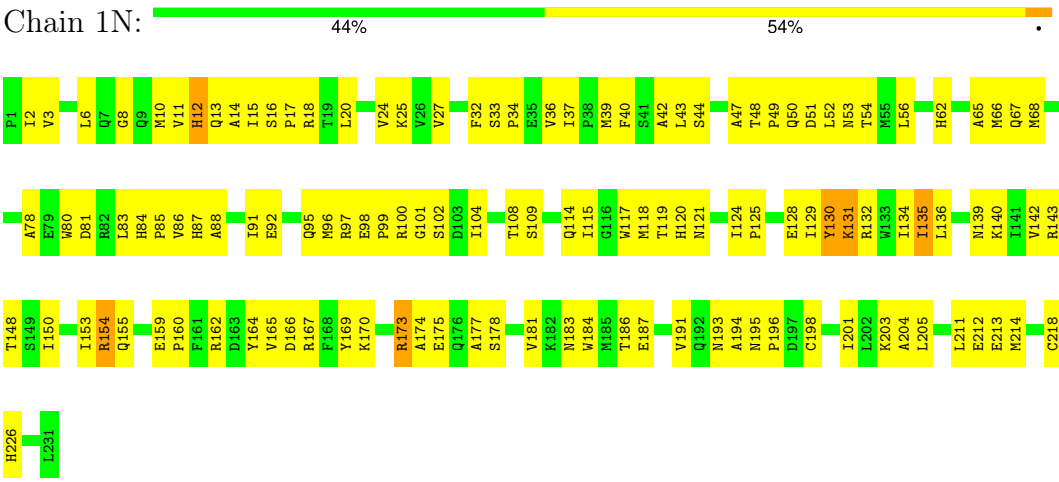


• Molecule 1: capsid protein

Chain i3:

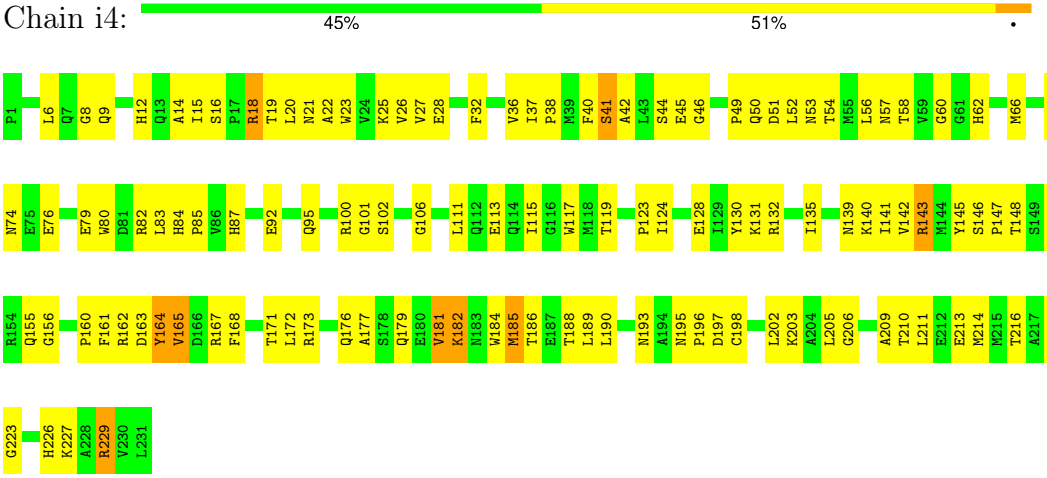
• Molecule 1: capsid protein

Chain 1N:



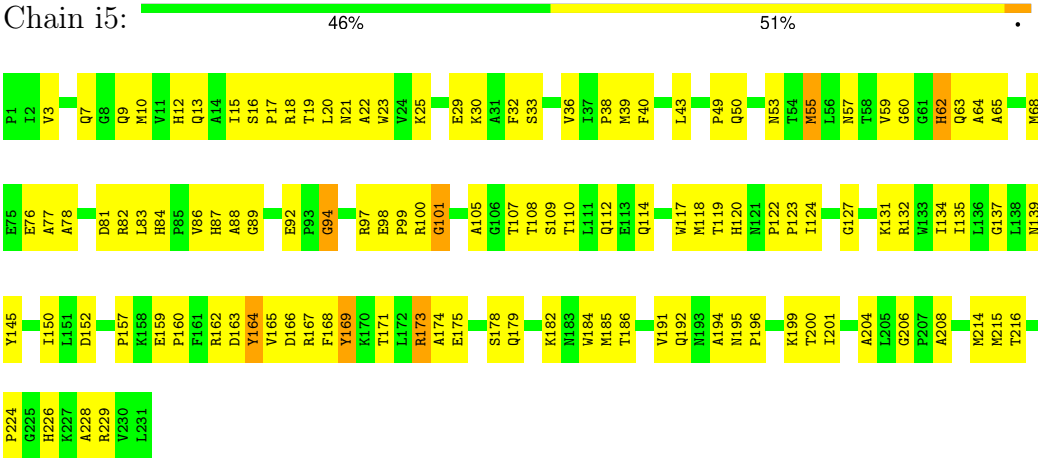
• Molecule 1: capsid protein

Chain i4:



• Molecule 1: capsid protein

Chain i5:



• Molecule 1: capsid protein

Chain i6:

• Molecule 1: capsid protein

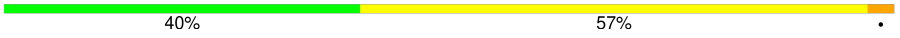
Chain i7:

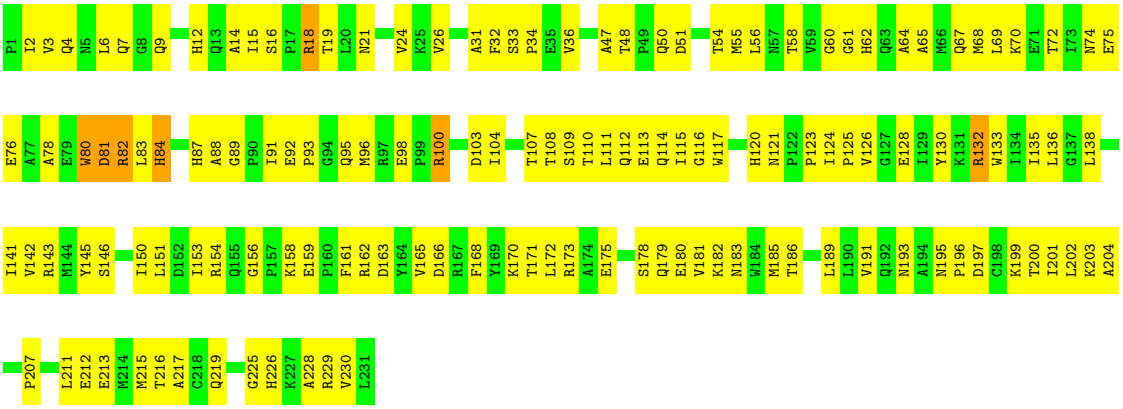
• Molecule 1: capsid protein

Chain i8:

• Molecule 1: capsid protein

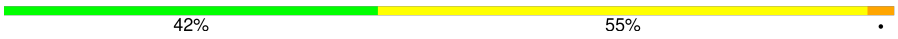
Chain i9:

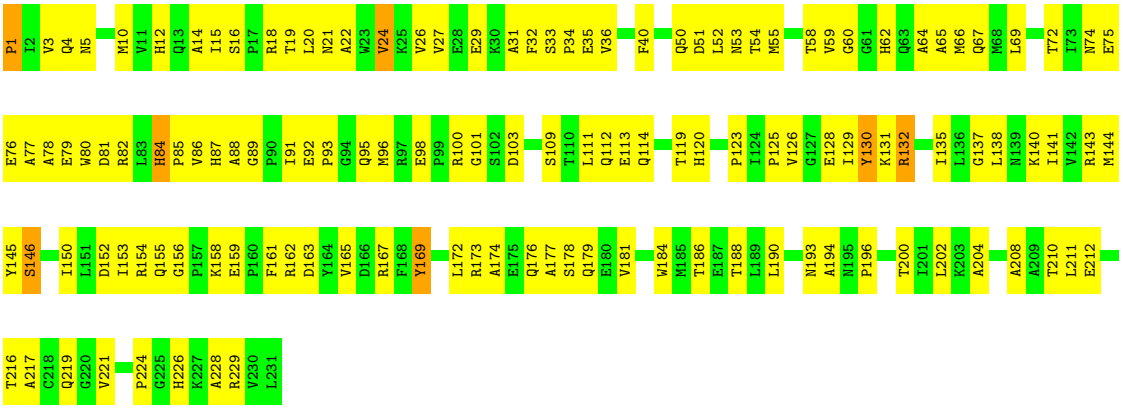




• Molecule 1: capsid protein

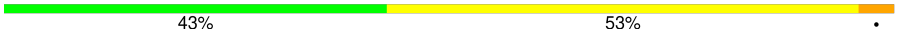
Chain ia:

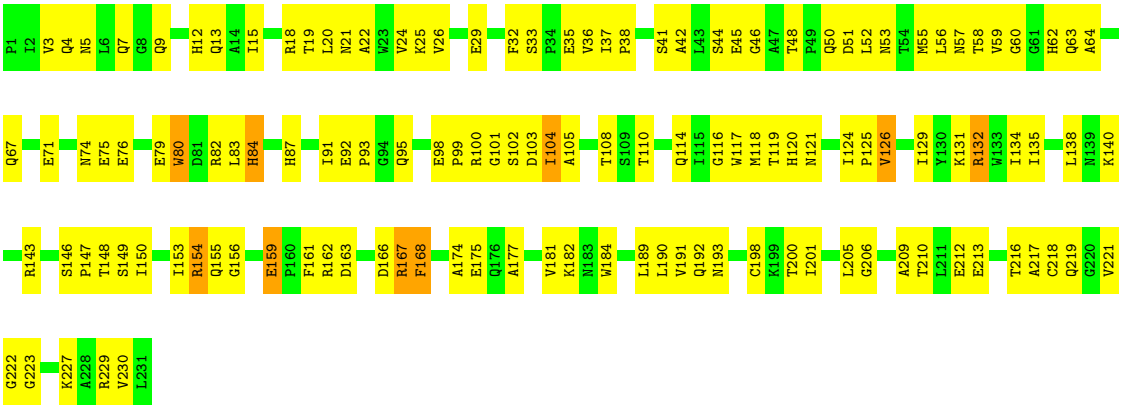




• Molecule 1: capsid protein

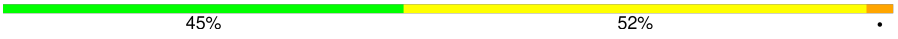
Chain ib:

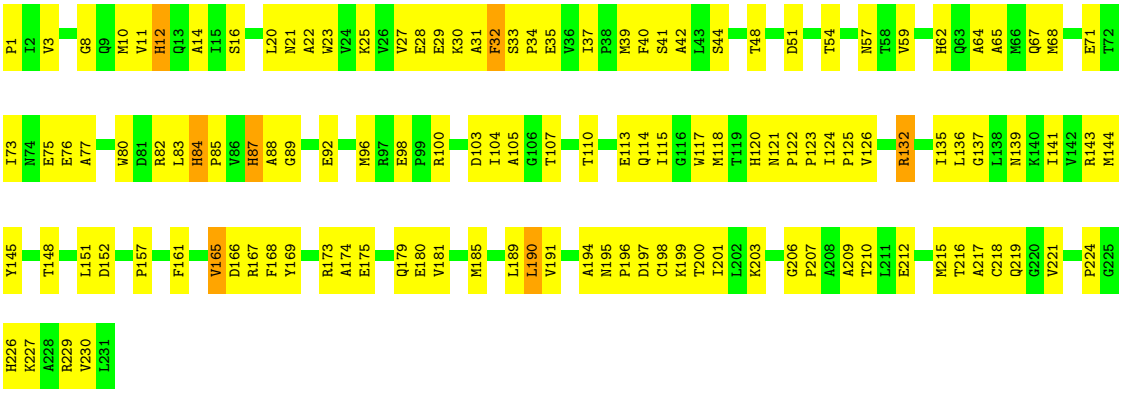




• Molecule 1: capsid protein

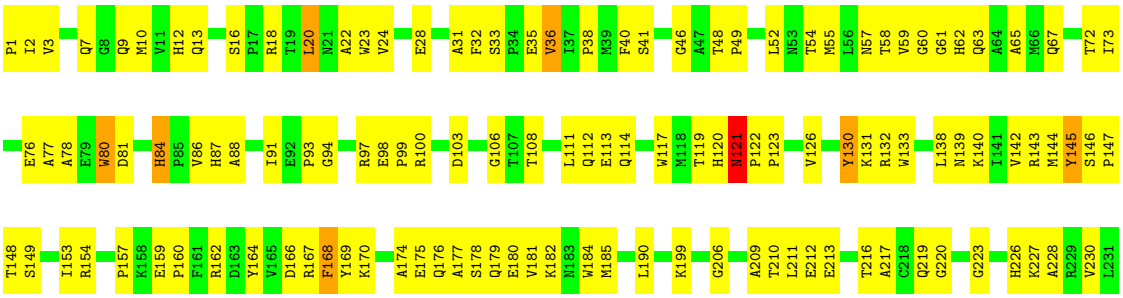
Chain ic:





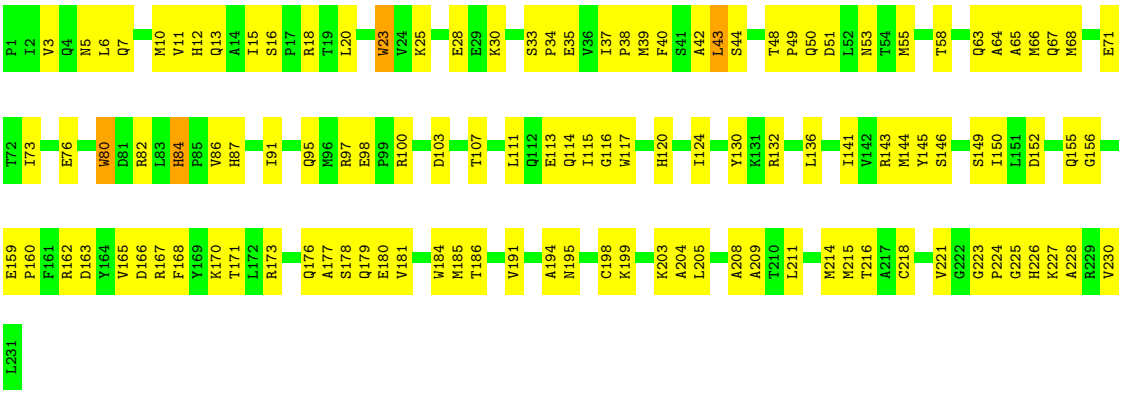
• Molecule 1: capsid protein

Chain id:



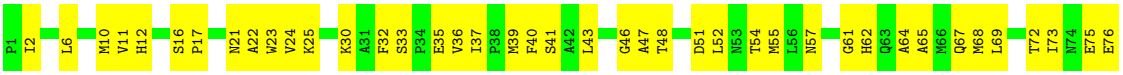
• Molecule 1: capsid protein

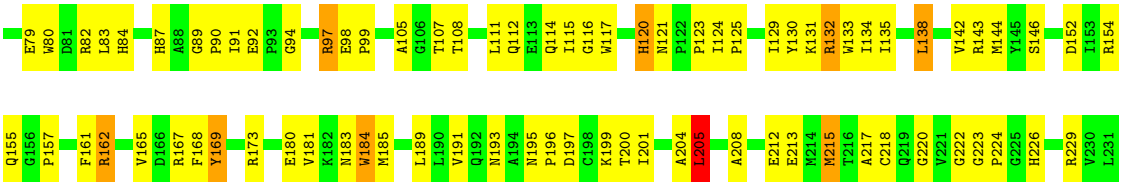
Chain 1O:



• Molecule 1: capsid protein

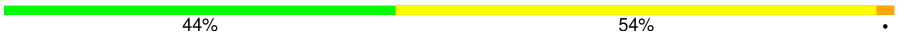
Chain ie:

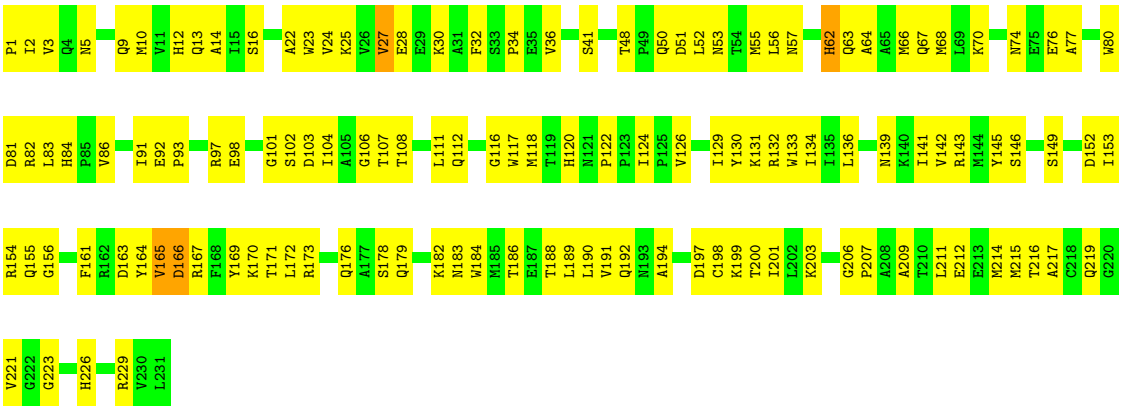




• Molecule 1: capsid protein

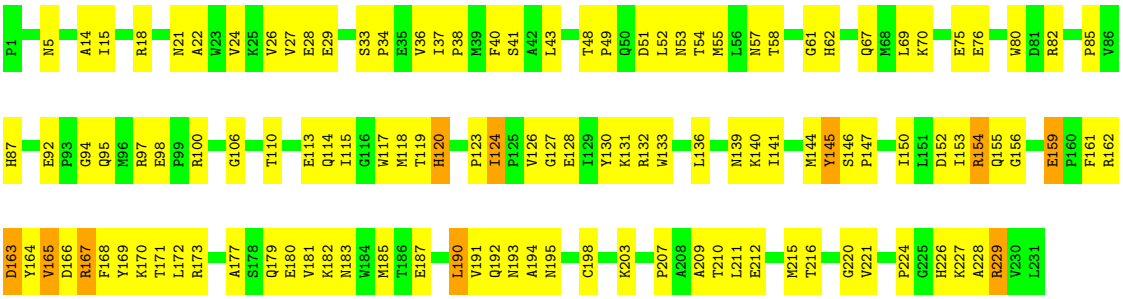
Chain if:





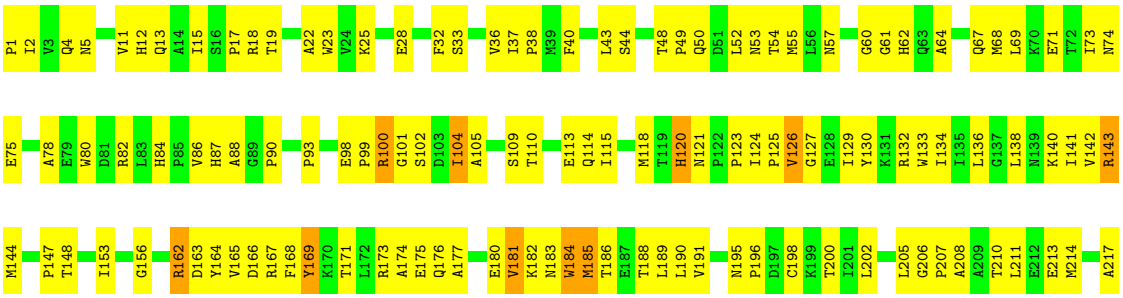
• Molecule 1: capsid protein

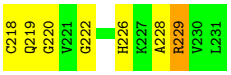
Chain ig:



• Molecule 1: capsid protein

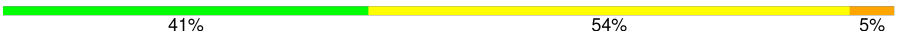
Chain ih:

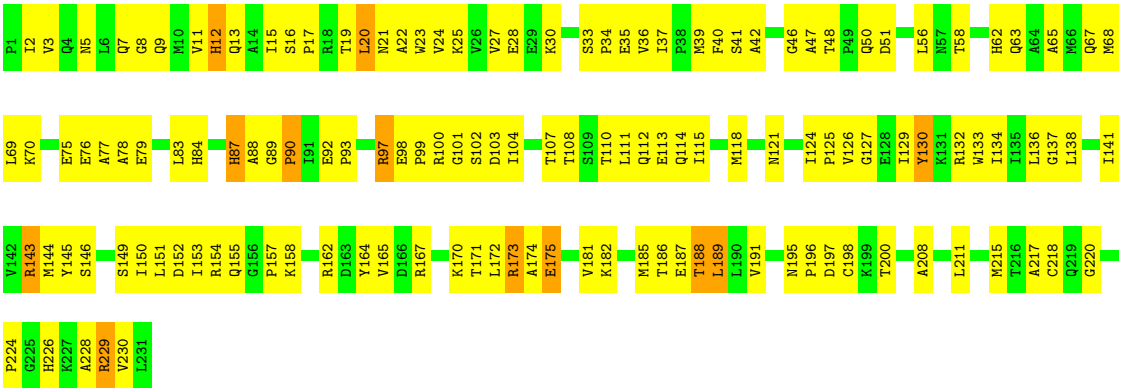




• Molecule 1: capsid protein

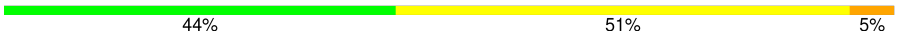
Chain ii:

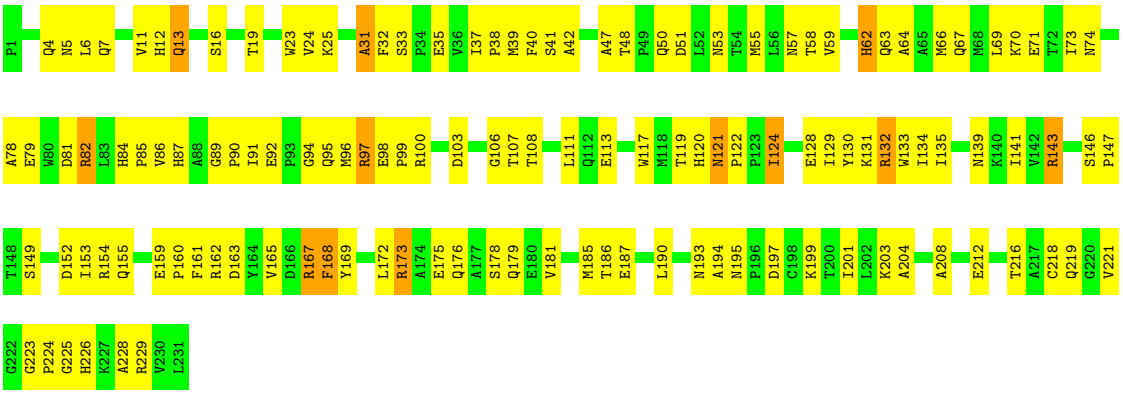




• Molecule 1: capsid protein

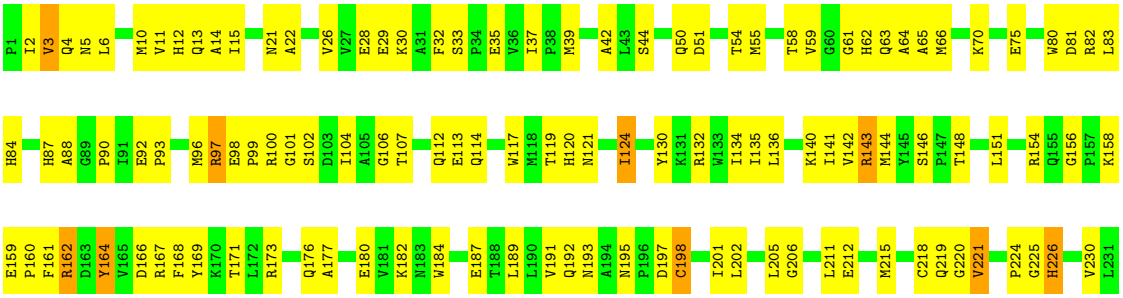
Chain ij:





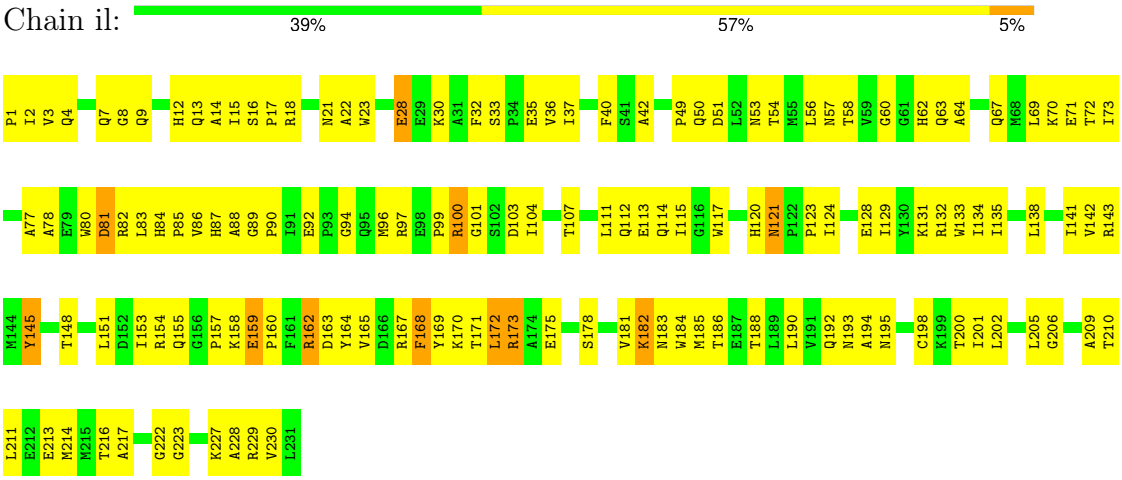
• Molecule 1: capsid protein

Chain ik:



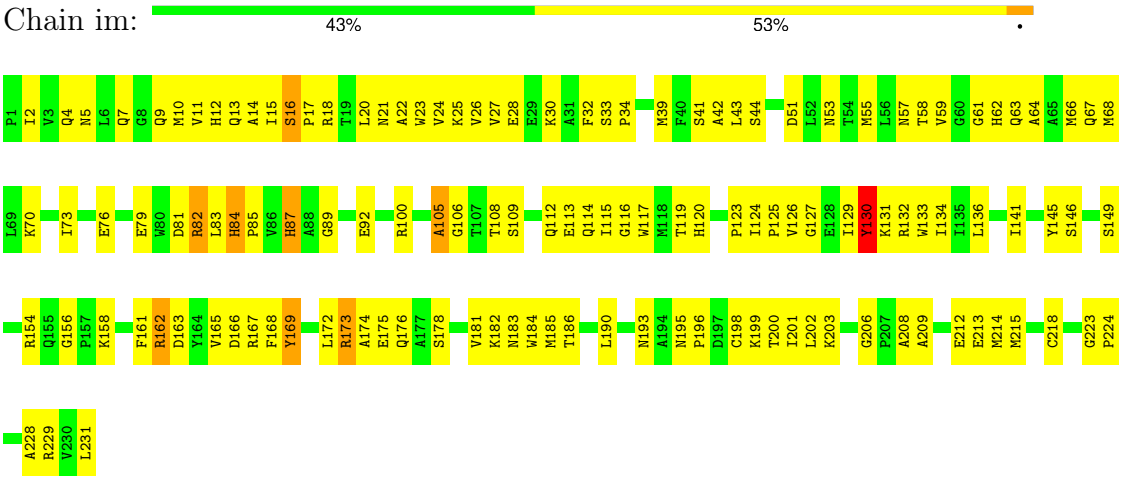
• Molecule 1: capsid protein

Chain il:



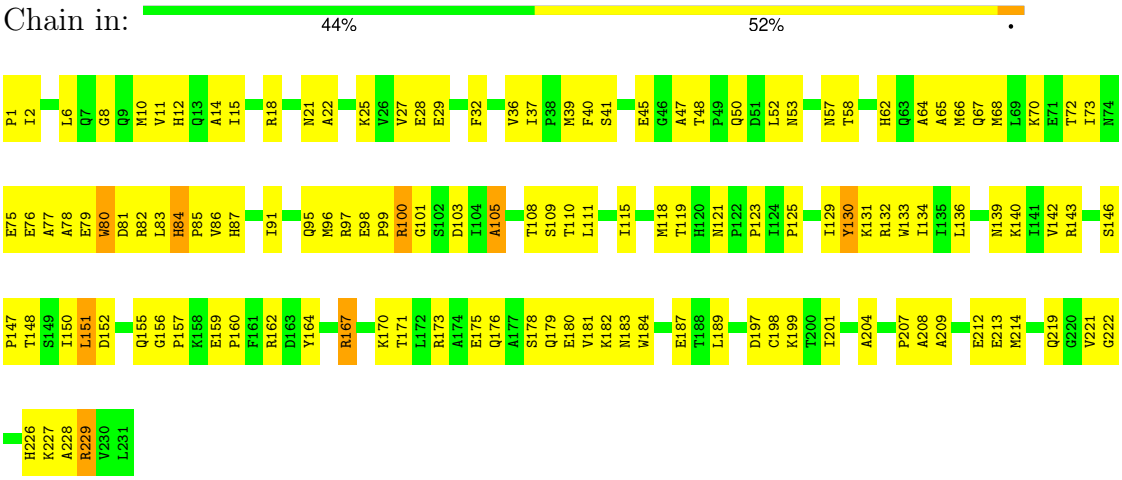
• Molecule 1: capsid protein

Chain im:



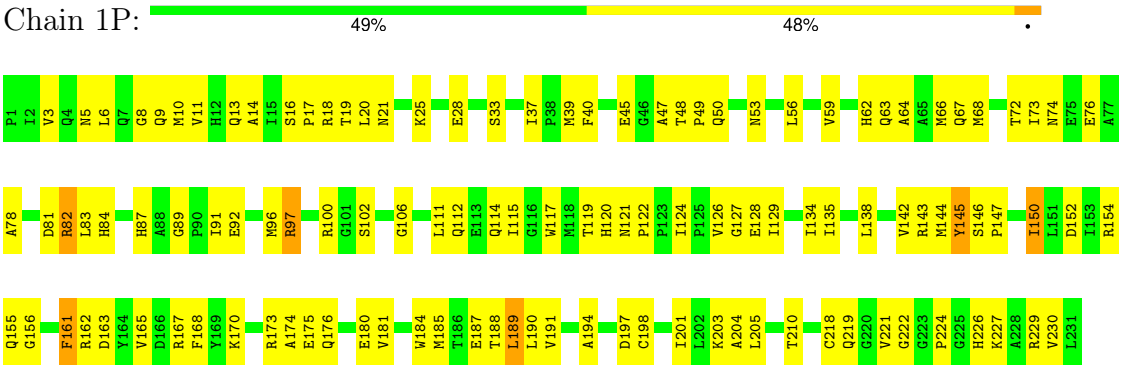
• Molecule 1: capsid protein

Chain in:



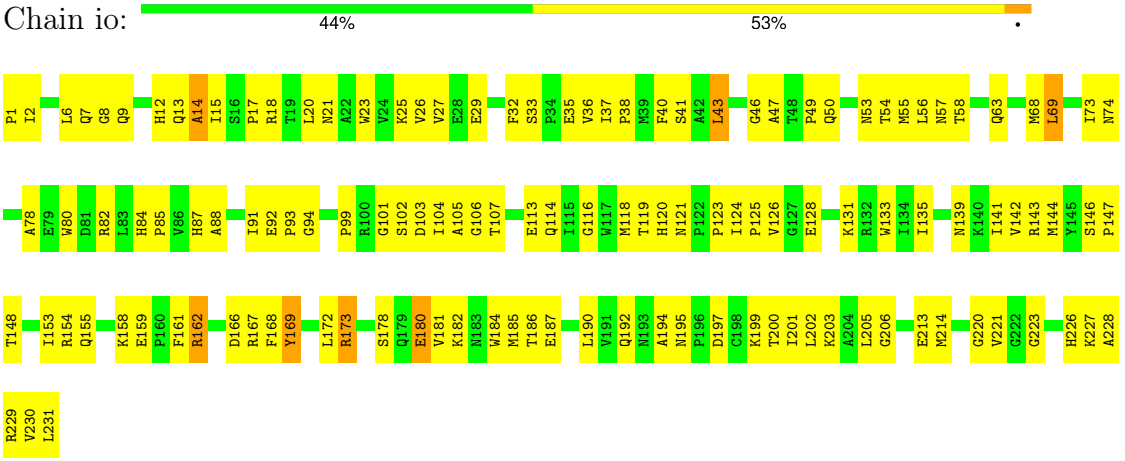
• Molecule 1: capsid protein

Chain 1P:



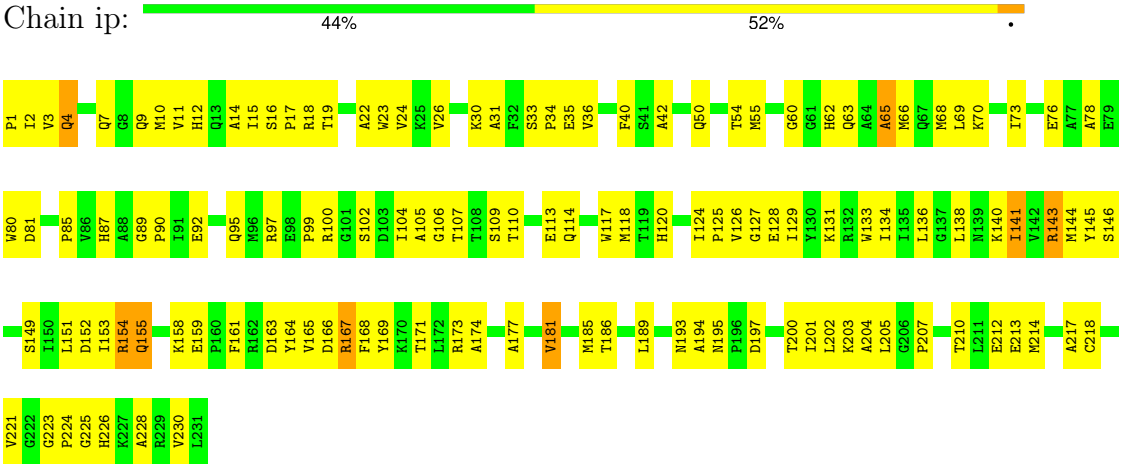
• Molecule 1: capsid protein

Chain io:



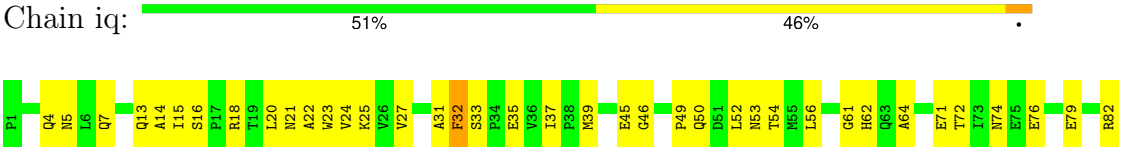
• Molecule 1: capsid protein

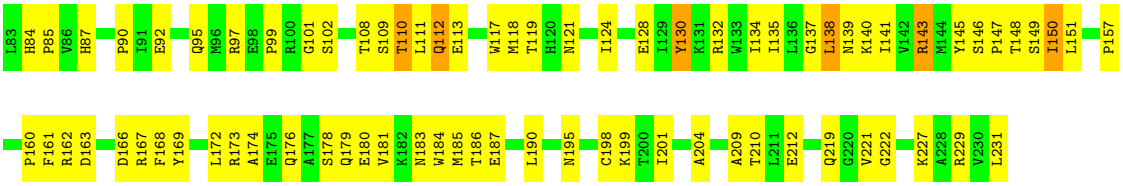
Chain ip:



• Molecule 1: capsid protein

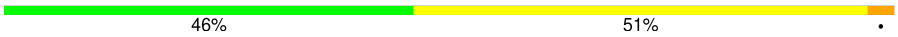
Chain iq:

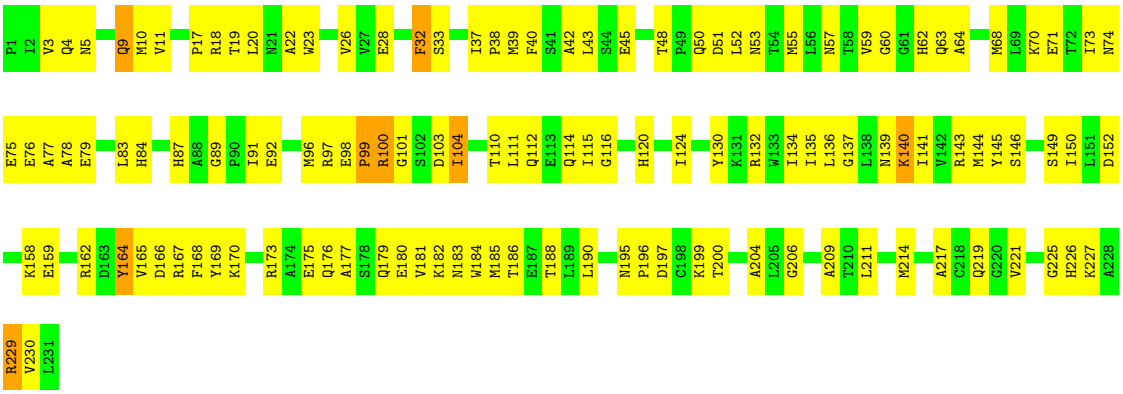




• Molecule 1: capsid protein

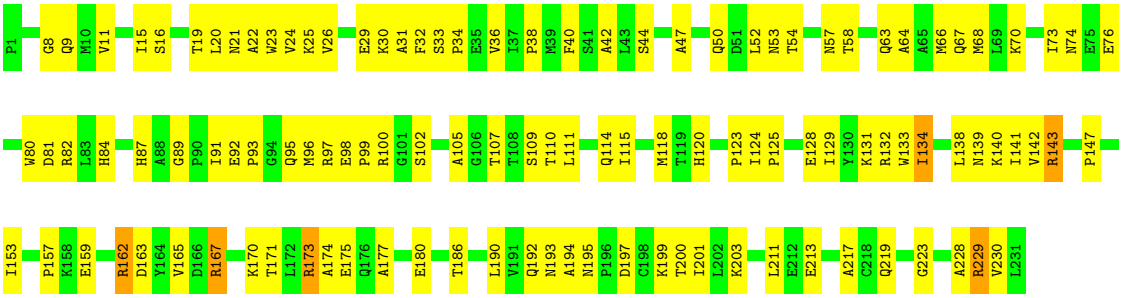
Chain ir:





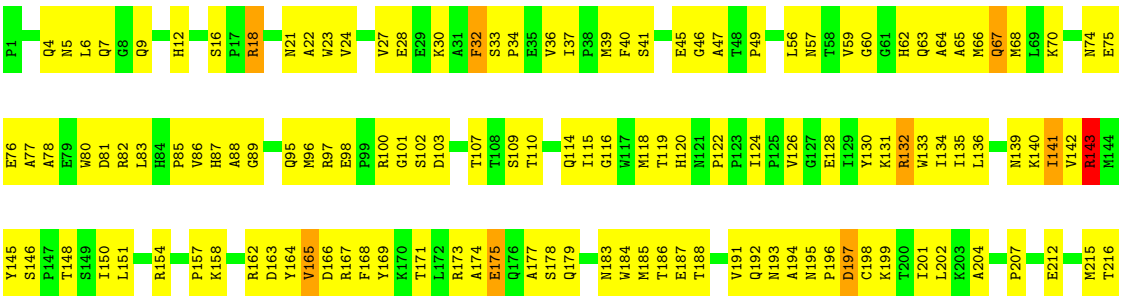
• Molecule 1: capsid protein

Chain is:



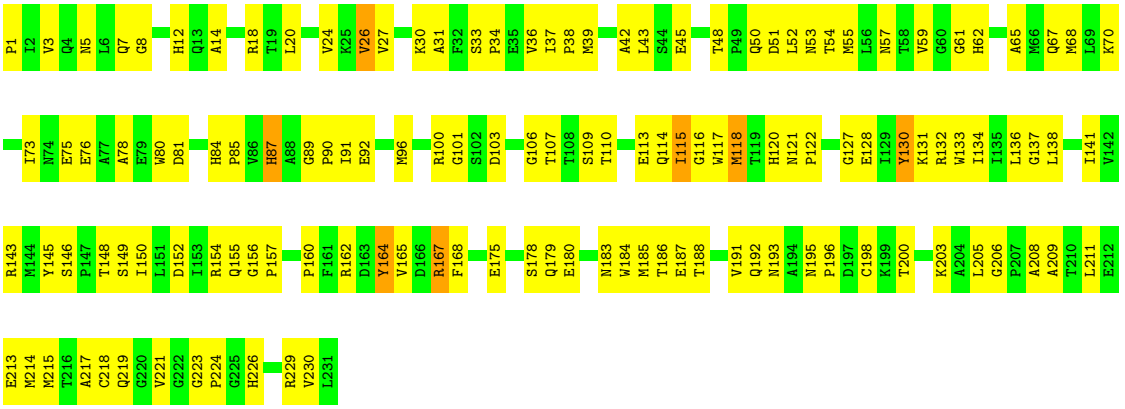
• Molecule 1: capsid protein

Chain it:



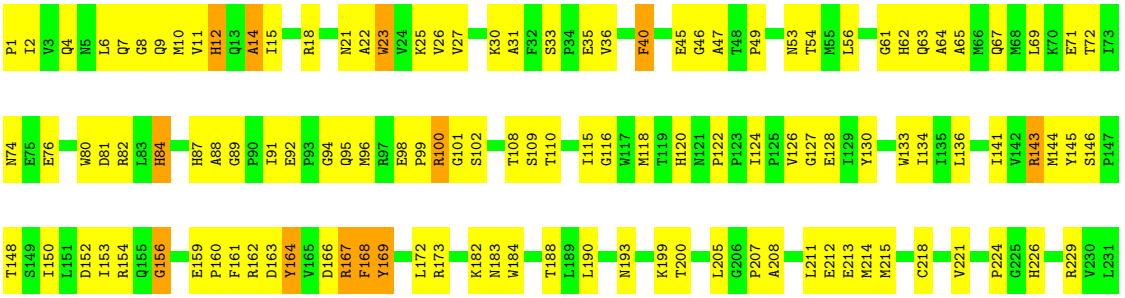
• Molecule 1: capsid protein

Chain iu:



• Molecule 1: capsid protein

Chain iv:

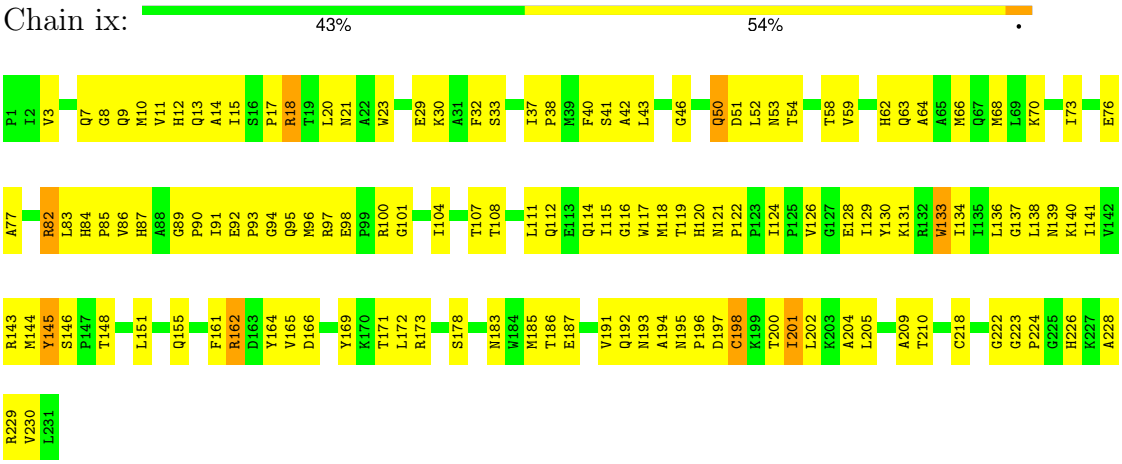


• Molecule 1: capsid protein

Chain iw:

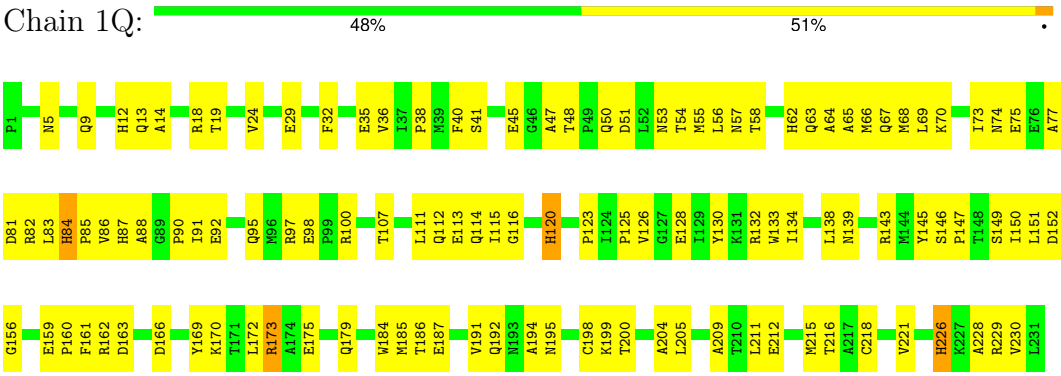
• Molecule 1: capsid protein

Chain ix:



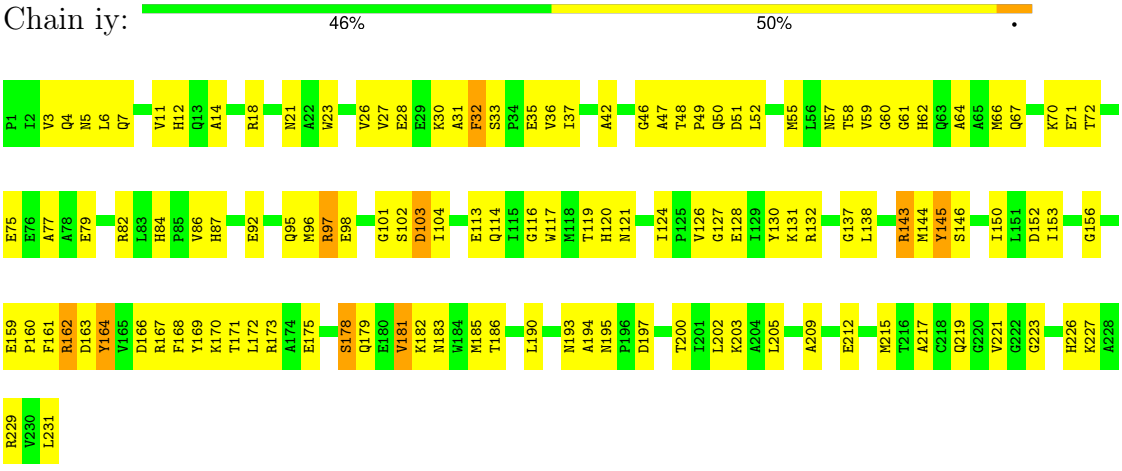
• Molecule 1: capsid protein

Chain 1Q:



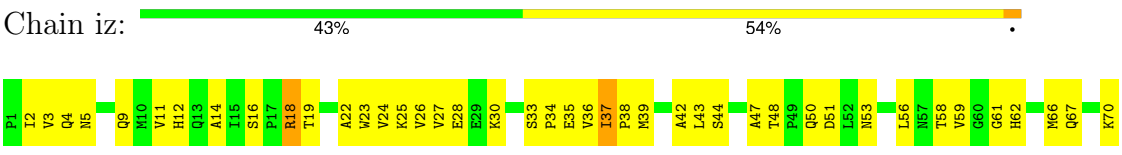
• Molecule 1: capsid protein

Chain iy:



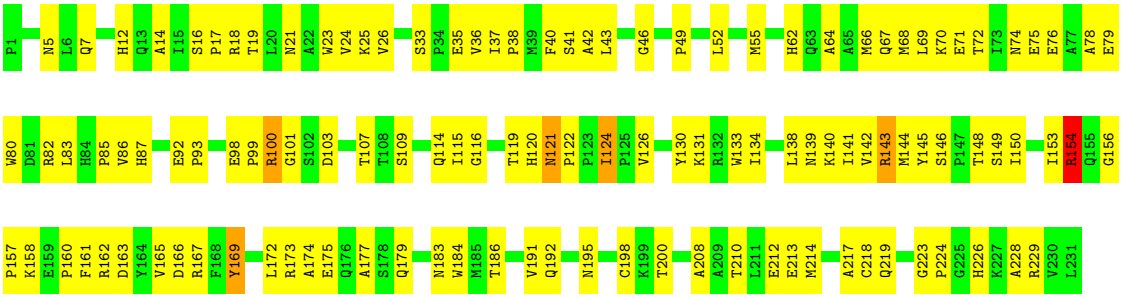
• Molecule 1: capsid protein

Chain iz:



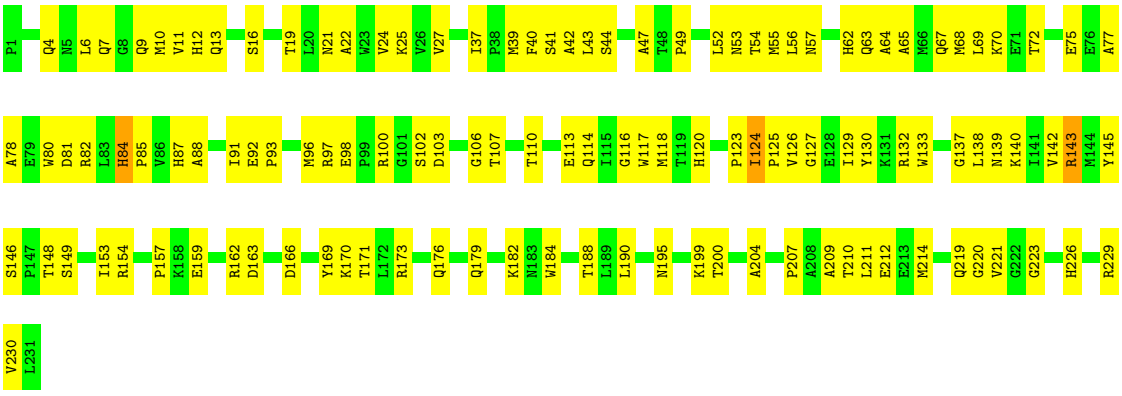
• Molecule 1: capsid protein

Chain iA:



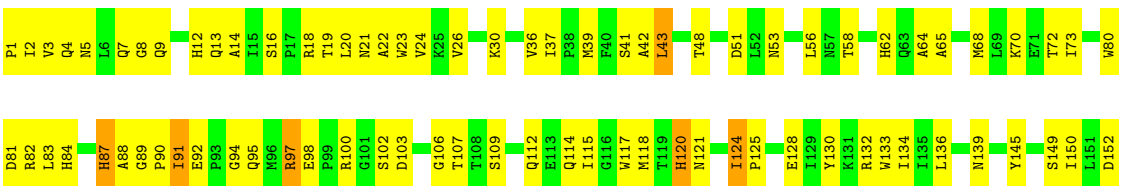
• Molecule 1: capsid protein

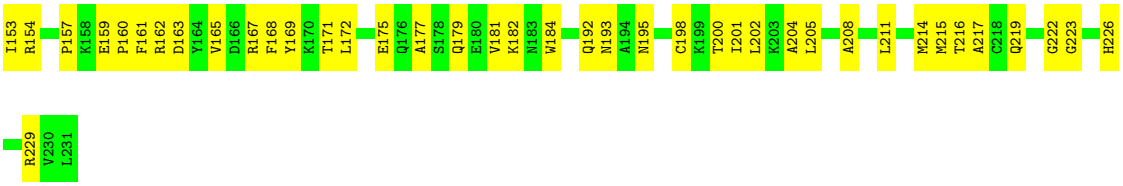
Chain iB:



• Molecule 1: capsid protein

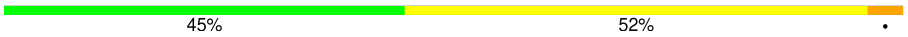
Chain iC:

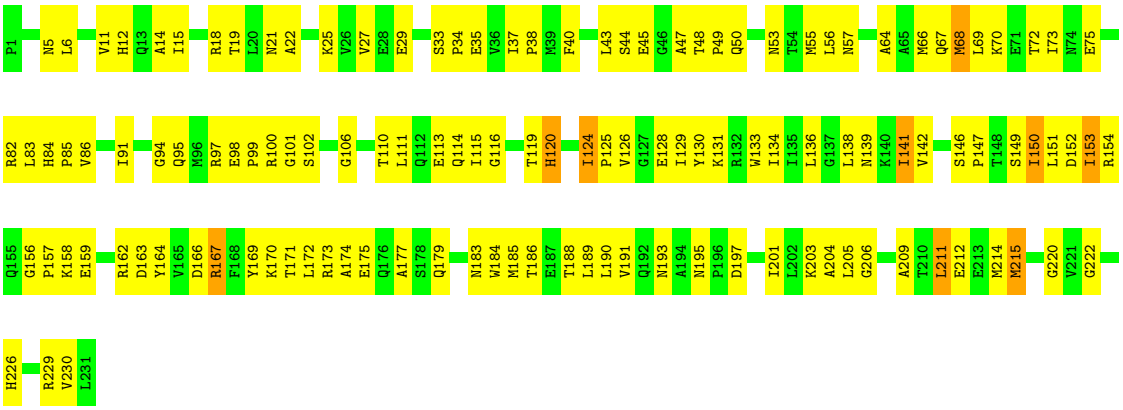




• Molecule 1: capsid protein

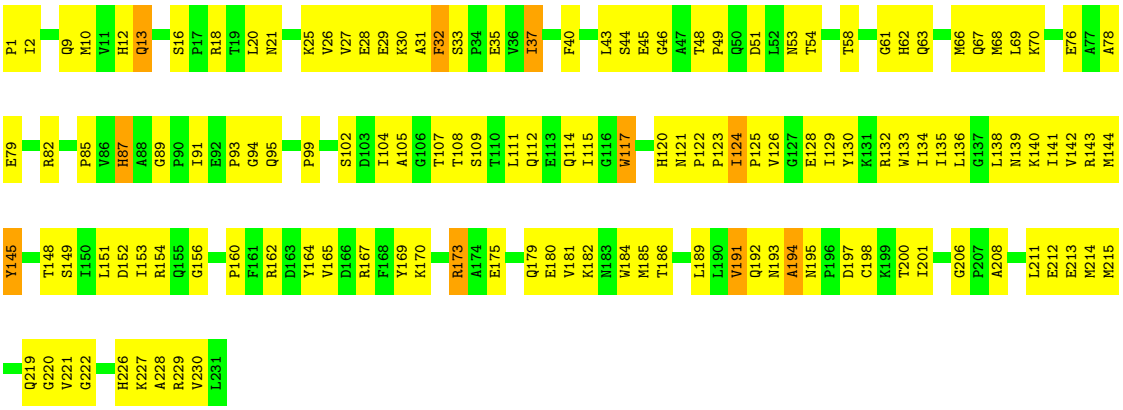
Chain iD:





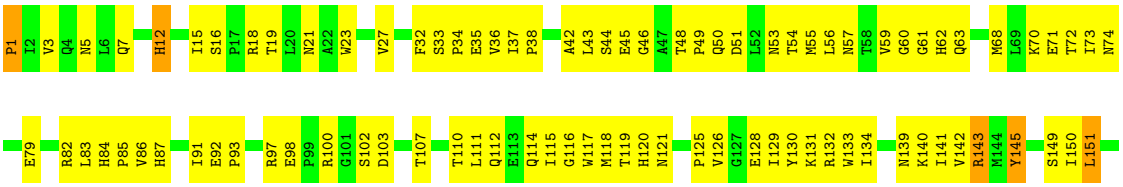
• Molecule 1: capsid protein

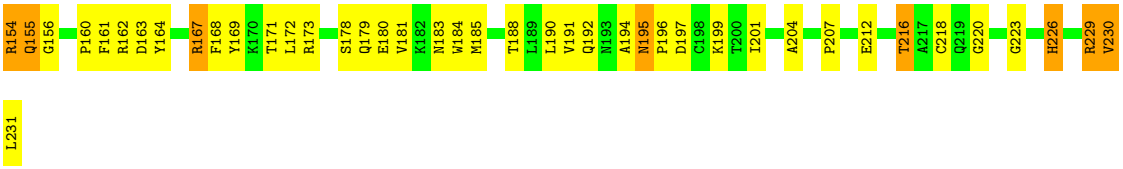
Chain iE:



• Molecule 1: capsid protein

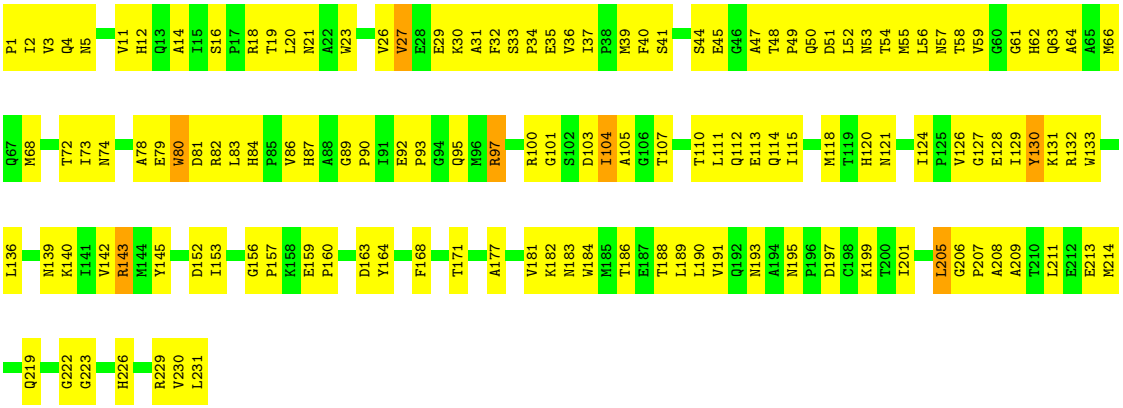
Chain iF:





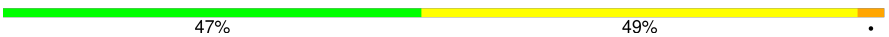
• Molecule 1: capsid protein

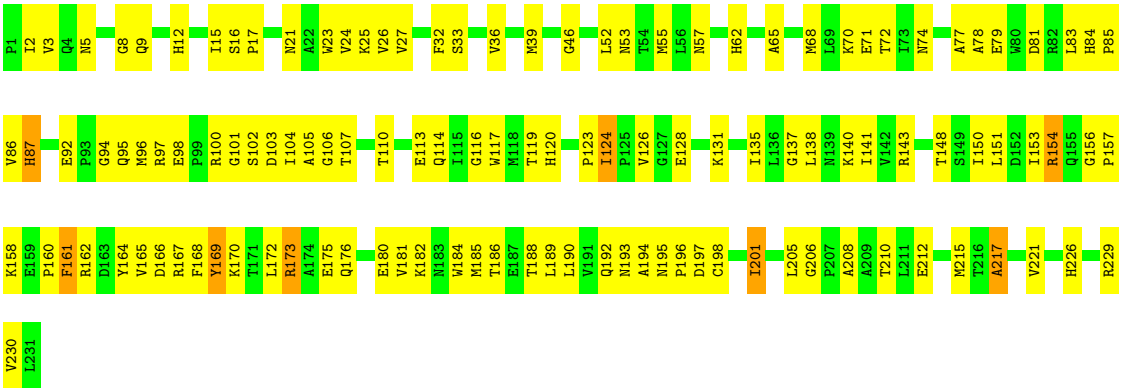
Chain iG:



• Molecule 1: capsid protein

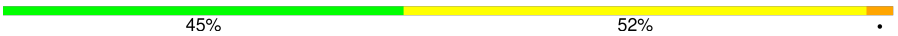
Chain iH:

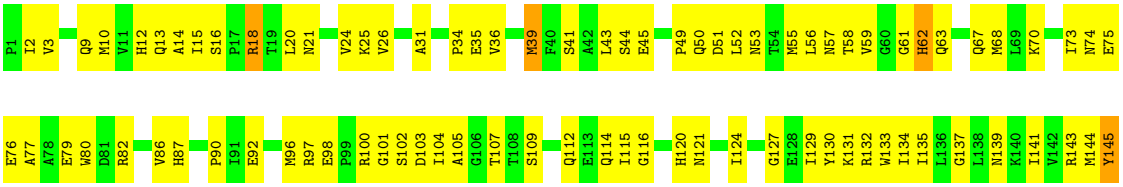


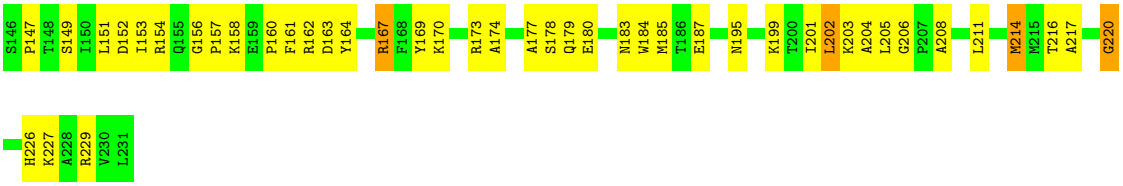


• Molecule 1: capsid protein

Chain 1R:

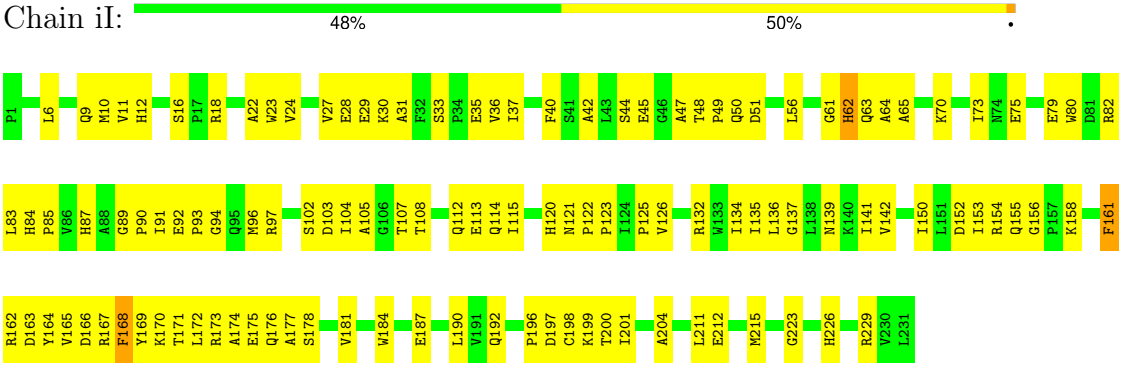






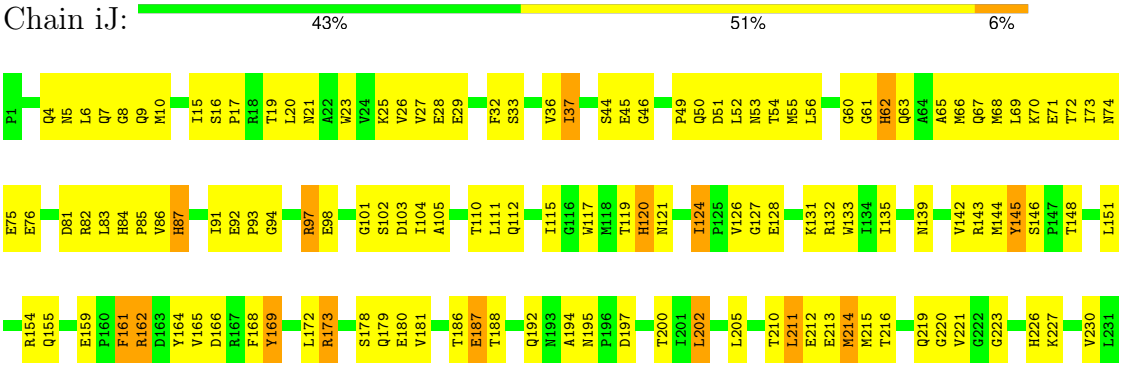
• Molecule 1: capsid protein

Chain iI:



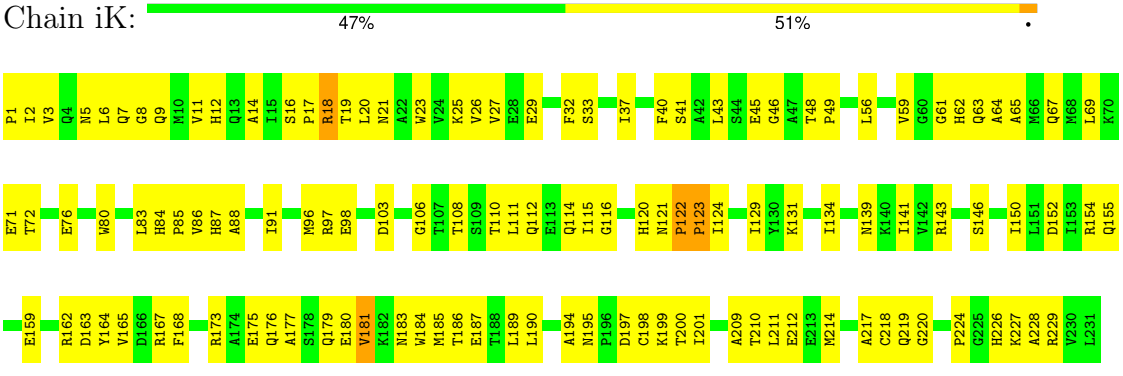
• Molecule 1: capsid protein

Chain iJ:



• Molecule 1: capsid protein

Chain iK:

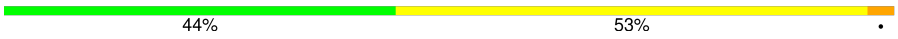


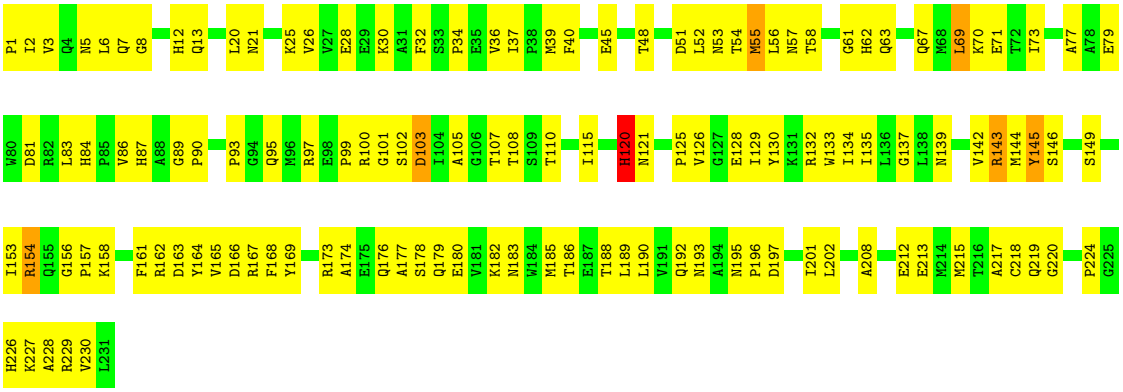
• Molecule 1: capsid protein

Chain iL:

• Molecule 1: capsid protein

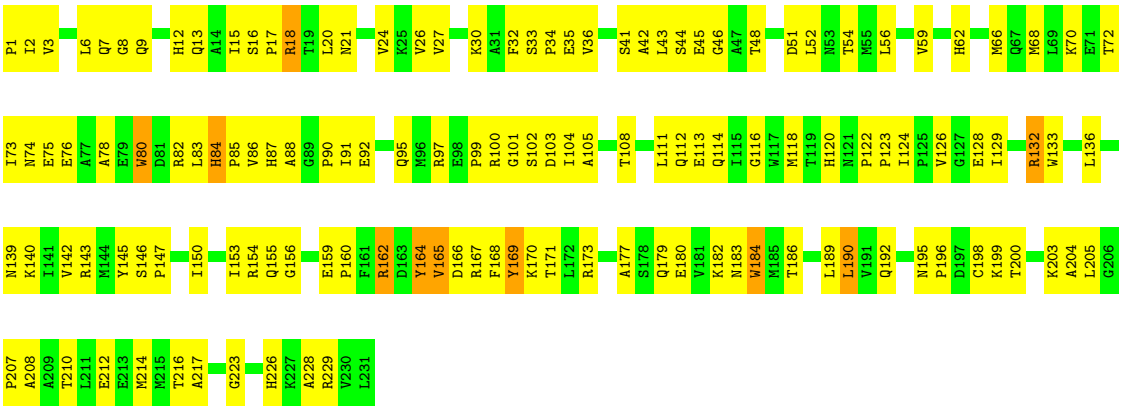
Chain iM:





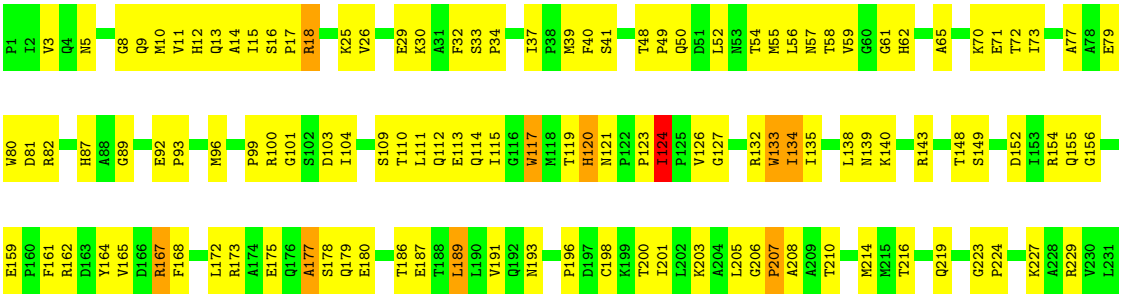
• Molecule 1: capsid protein

Chain iN:



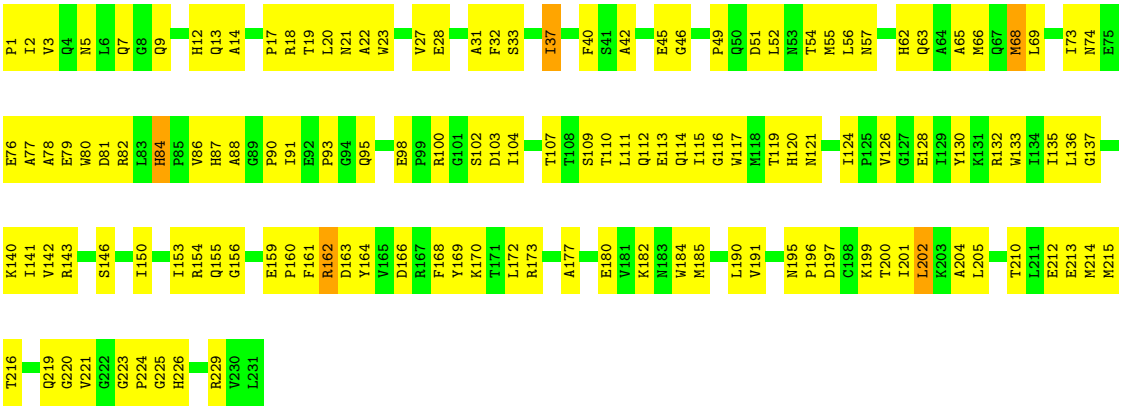
• Molecule 1: capsid protein

Chain iO:



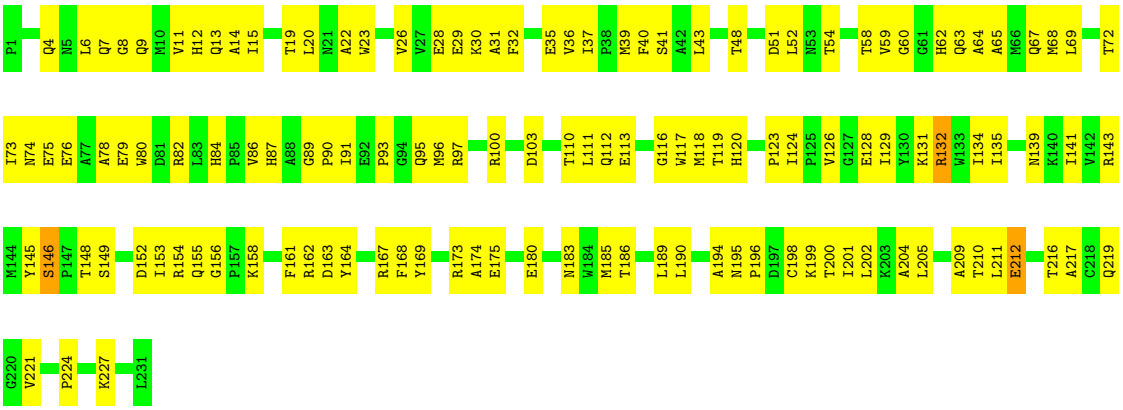
• Molecule 1: capsid protein

Chain iP:



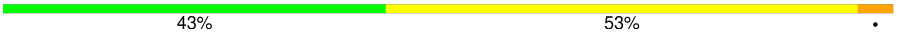
• Molecule 1: capsid protein

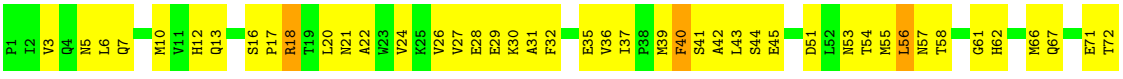
Chain iQ:



• Molecule 1: capsid protein

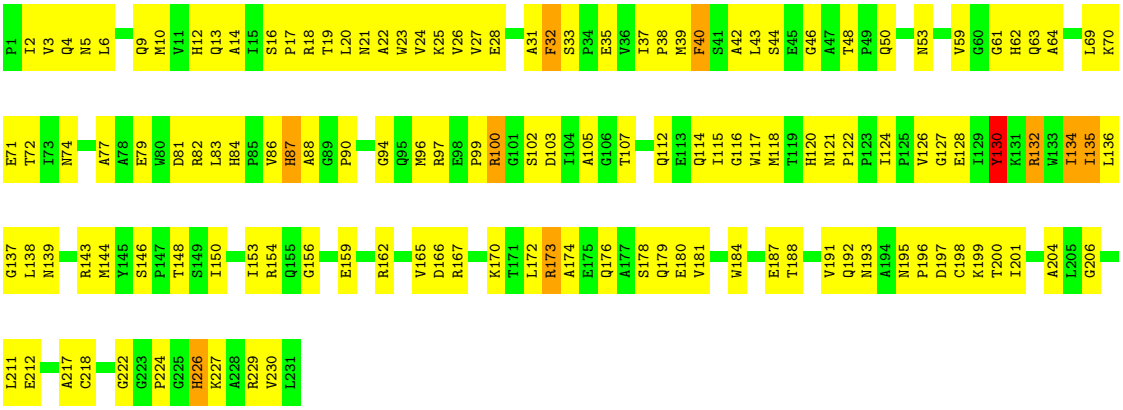
Chain iR:





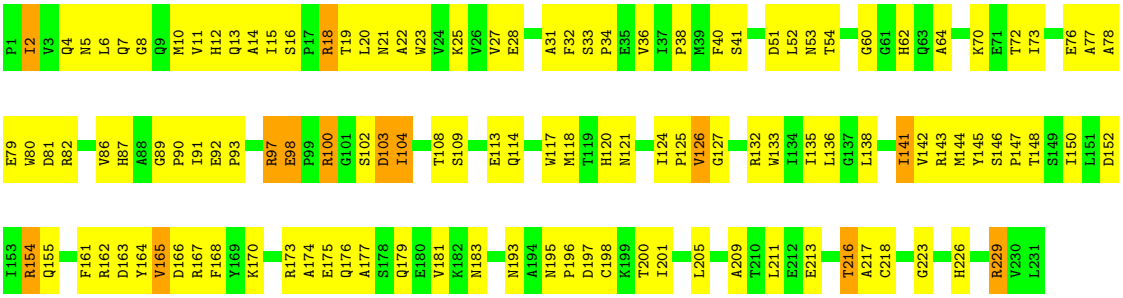
• Molecule 1: capsid protein

Chain 1S:



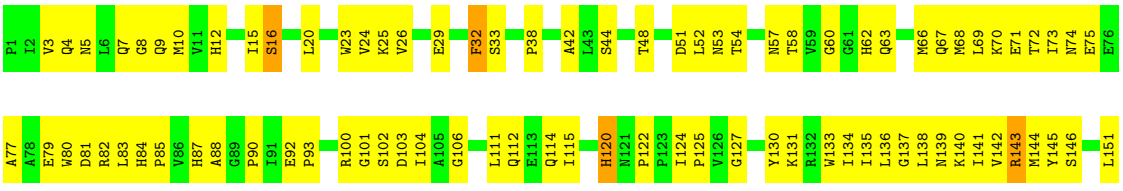
• Molecule 1: capsid protein

Chain iS:



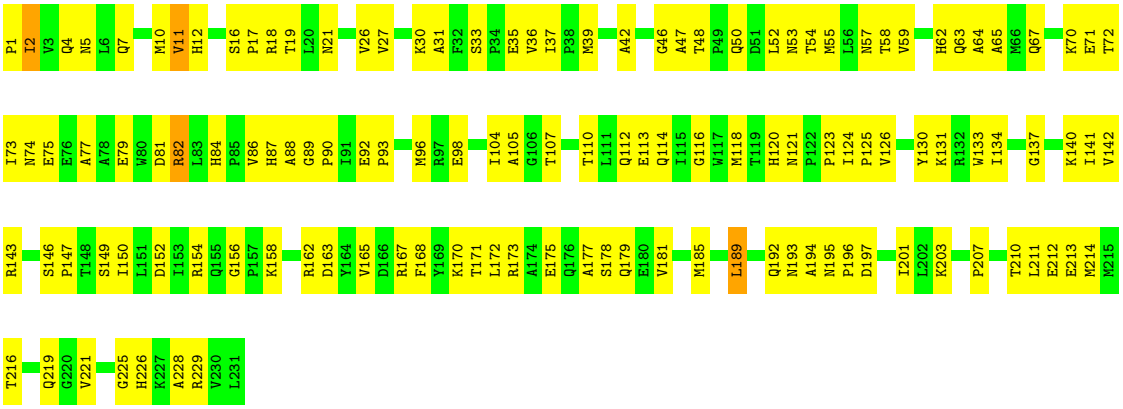
• Molecule 1: capsid protein

Chain iT:



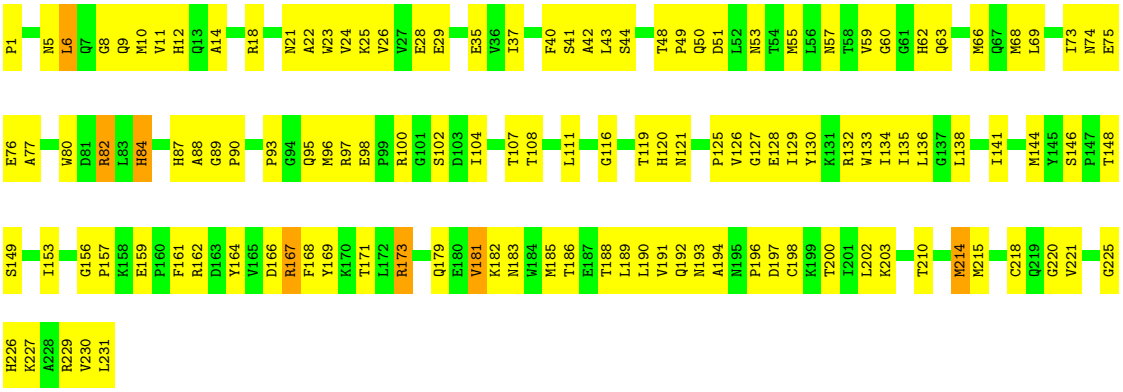
• Molecule 1: capsid protein

Chain iU:



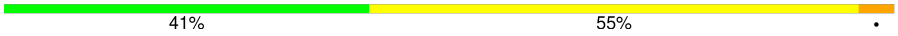
• Molecule 1: capsid protein

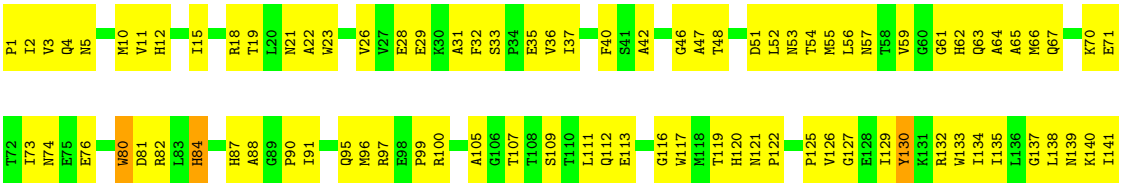
Chain iV:

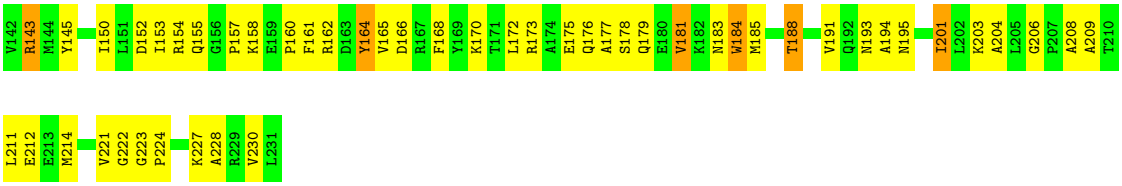


• Molecule 1: capsid protein

Chain iW:

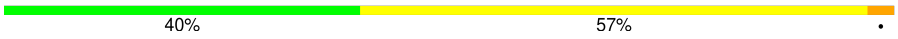


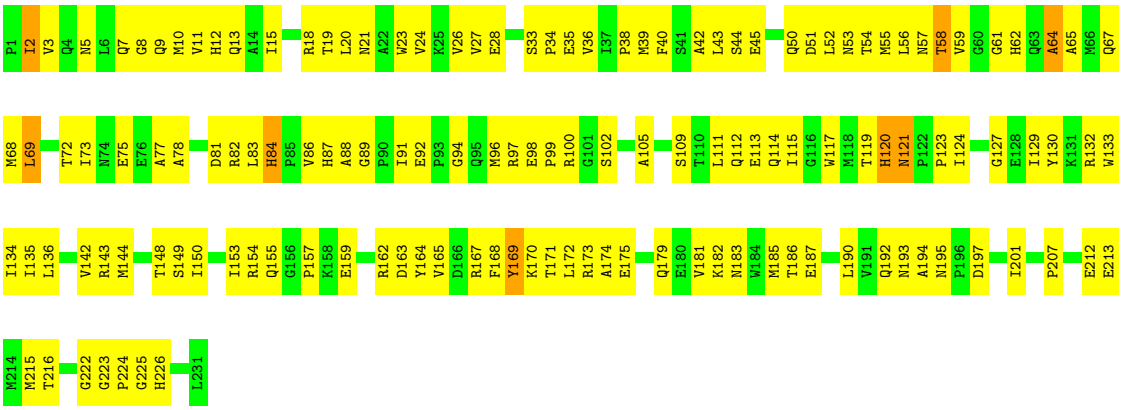




• Molecule 1: capsid protein

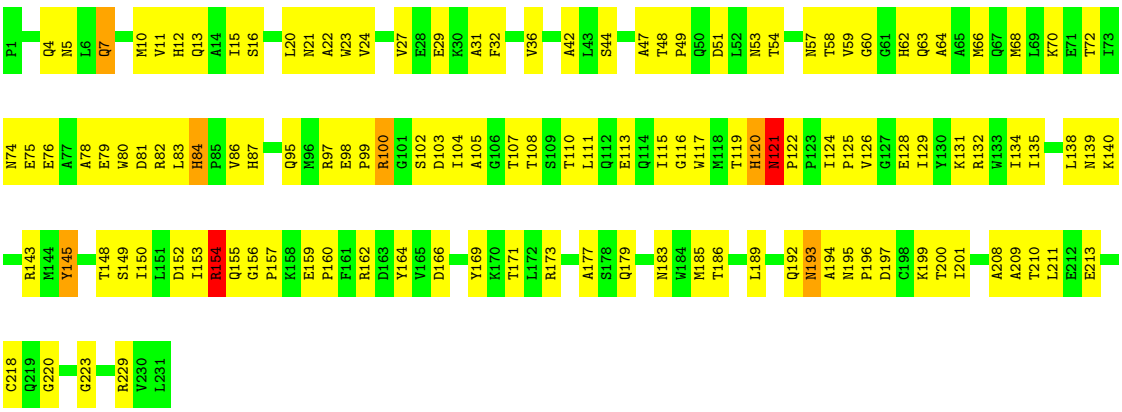
Chain iX:





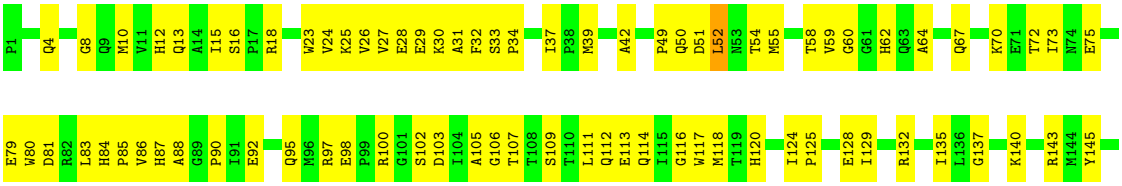
• Molecule 1: capsid protein

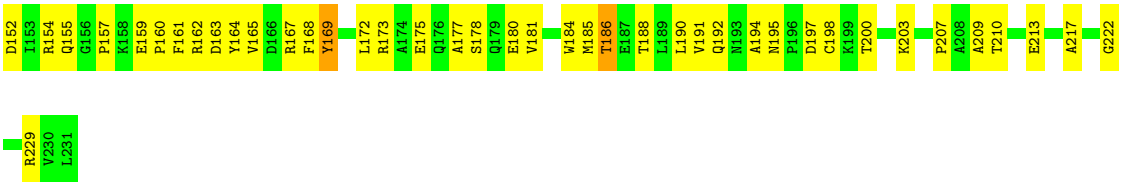
Chain iY:



• Molecule 1: capsid protein

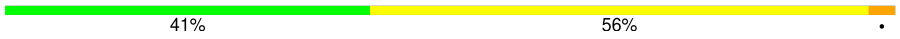
Chain iZ:

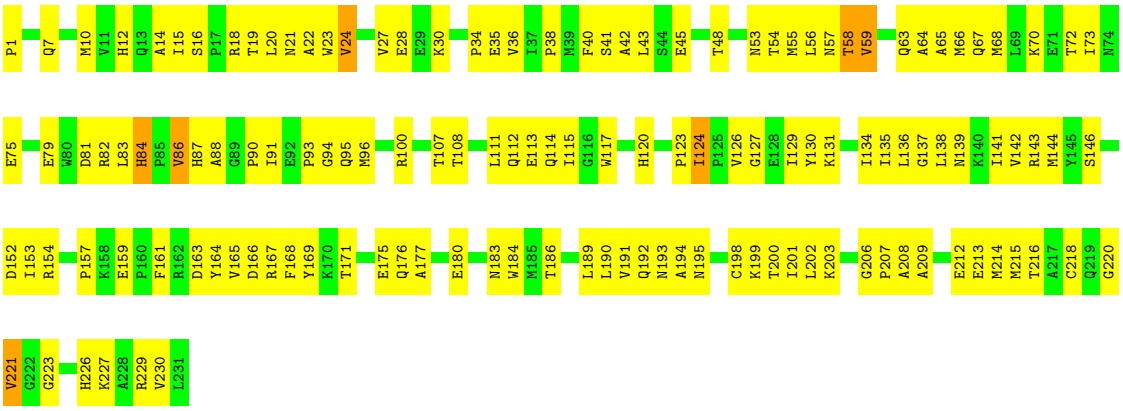




• Molecule 1: capsid protein

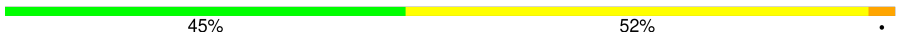
Chain j0:

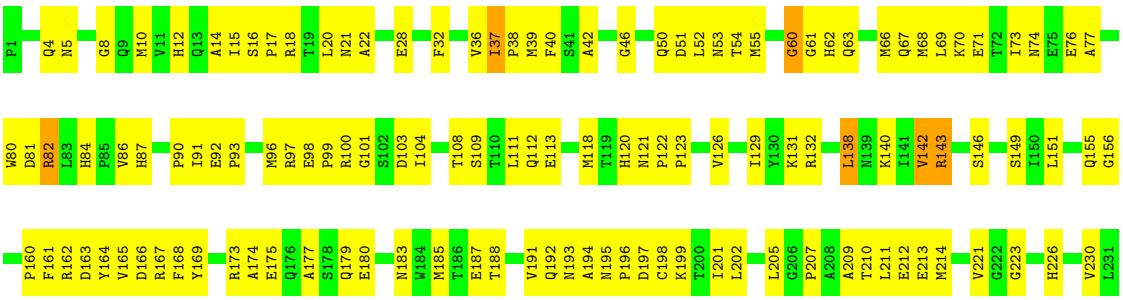




• Molecule 1: capsid protein

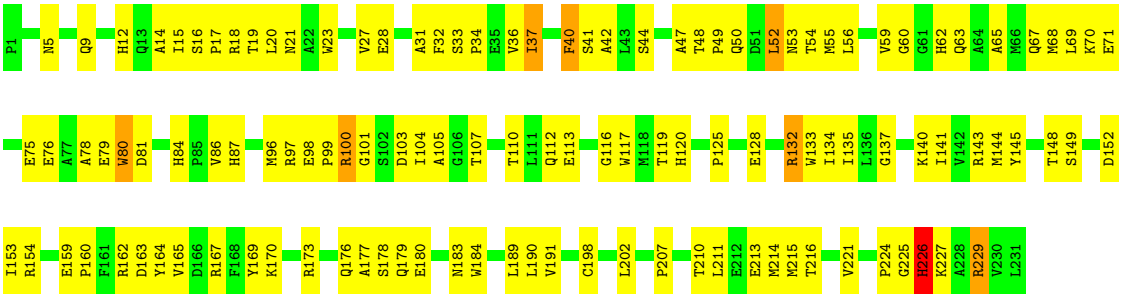
Chain j1:





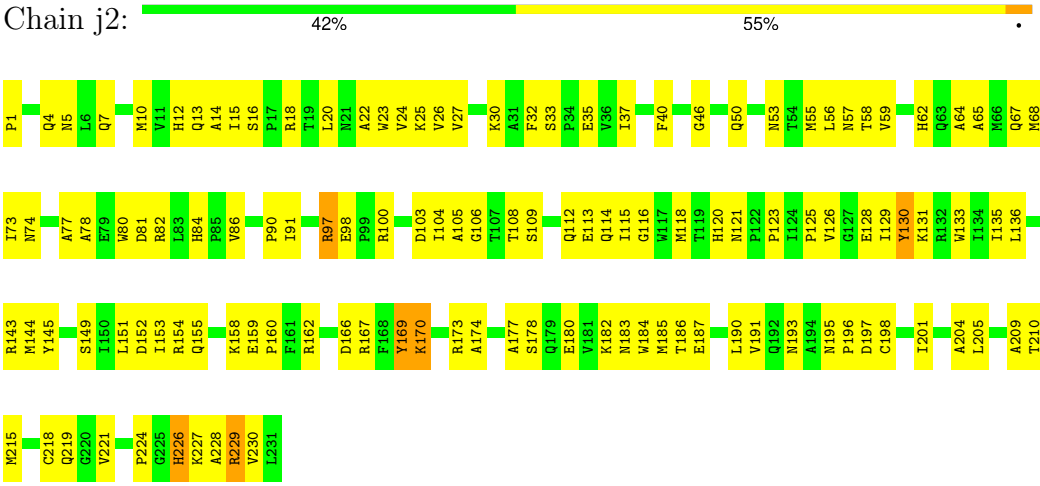
• Molecule 1: capsid protein

Chain 1T:



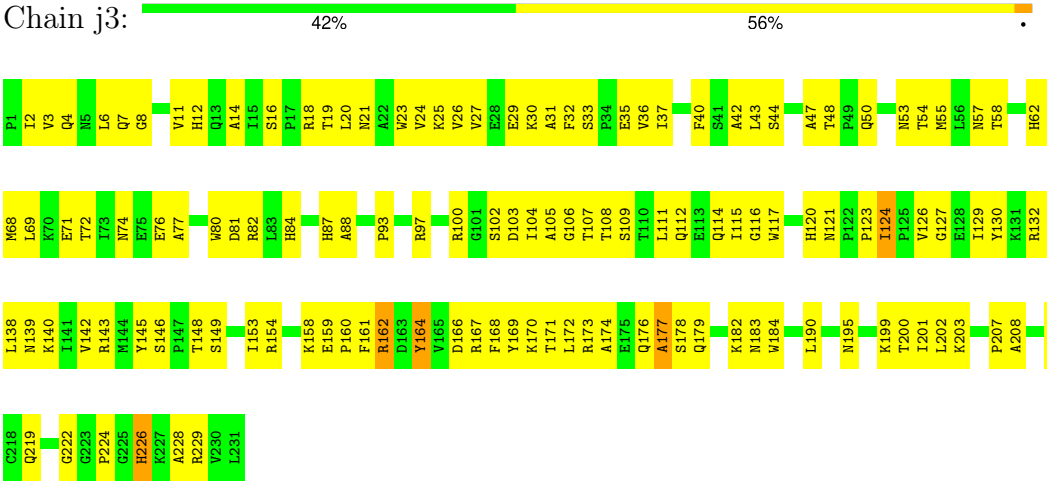
• Molecule 1: capsid protein

Chain j2:



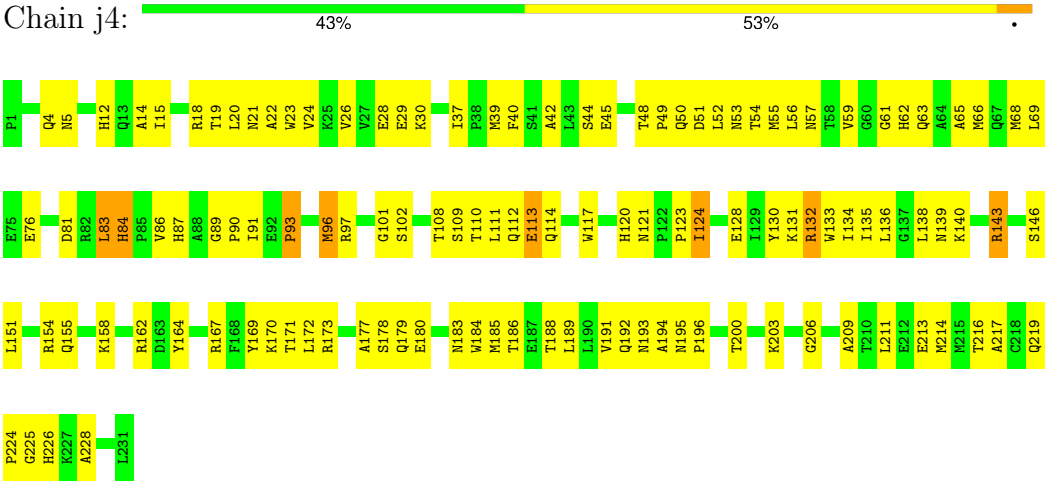
• Molecule 1: capsid protein

Chain j3:



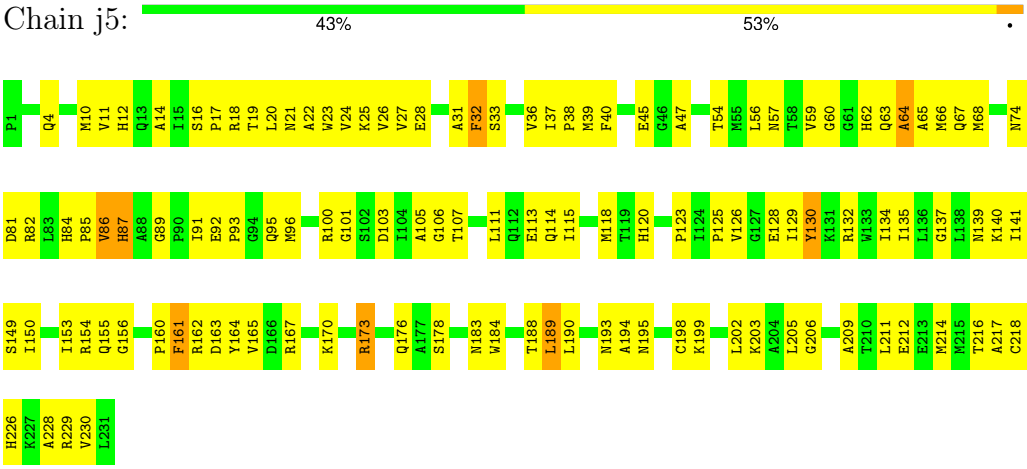
• Molecule 1: capsid protein

Chain j4:



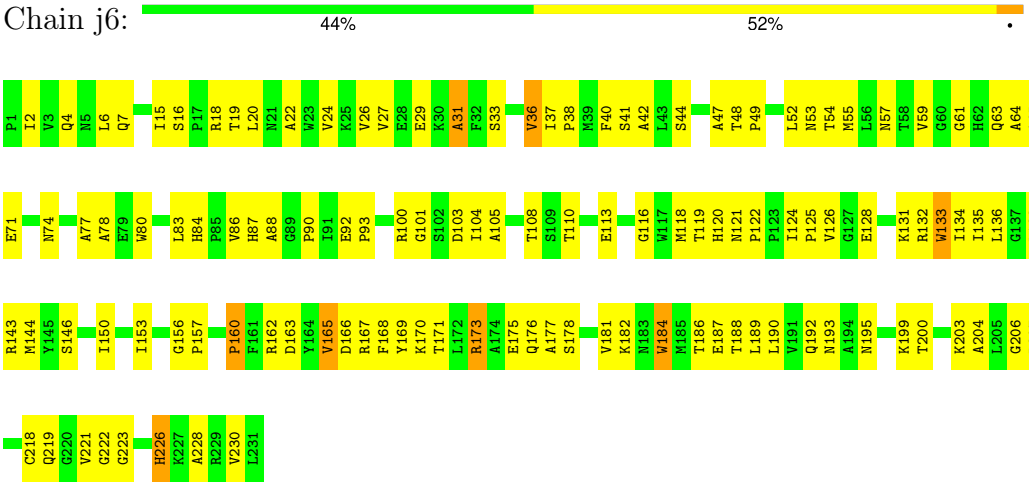
• Molecule 1: capsid protein

Chain j5:



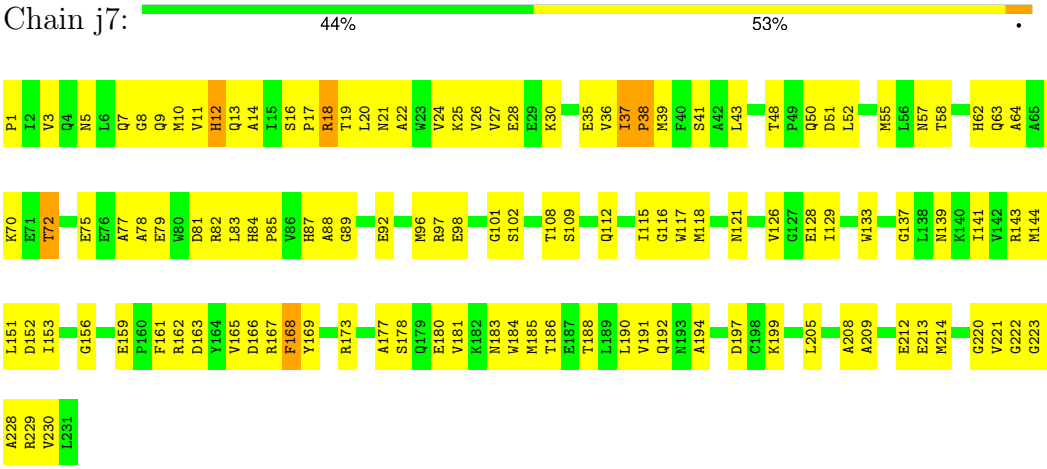
• Molecule 1: capsid protein

Chain j6:



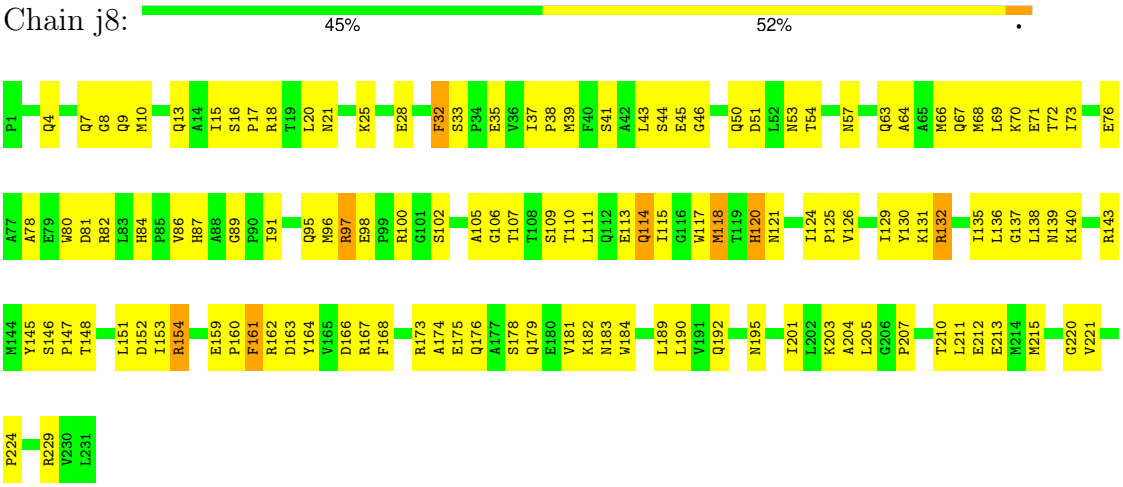
• Molecule 1: capsid protein

Chain j7:



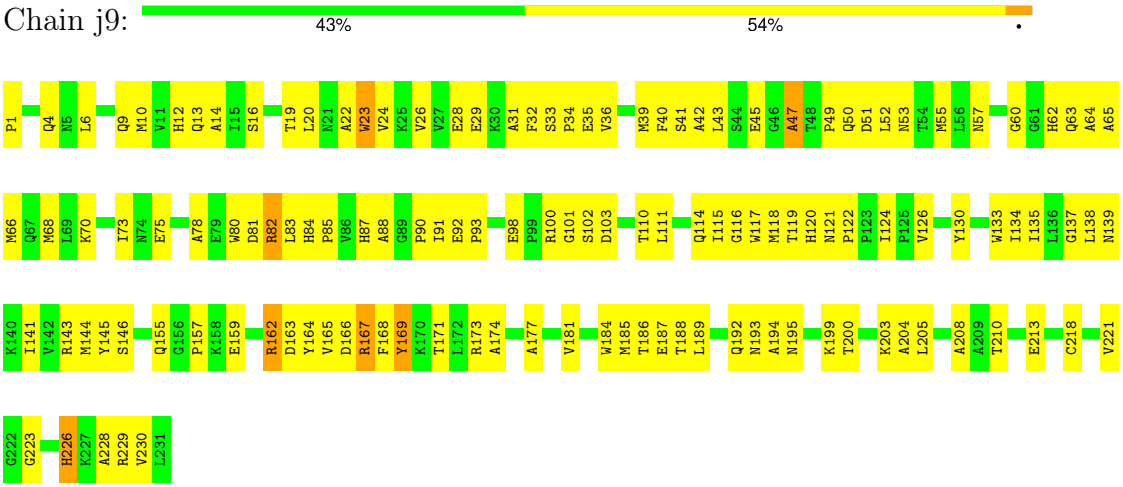
• Molecule 1: capsid protein

Chain j8:



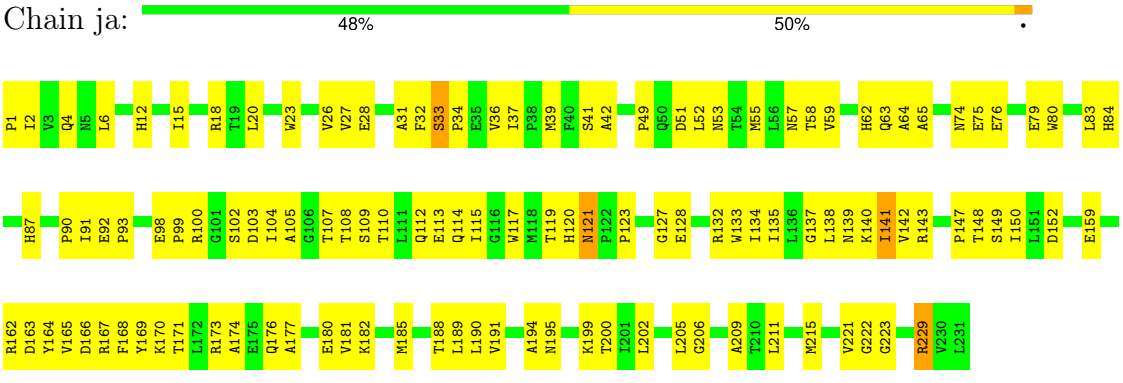
• Molecule 1: capsid protein

Chain j9:



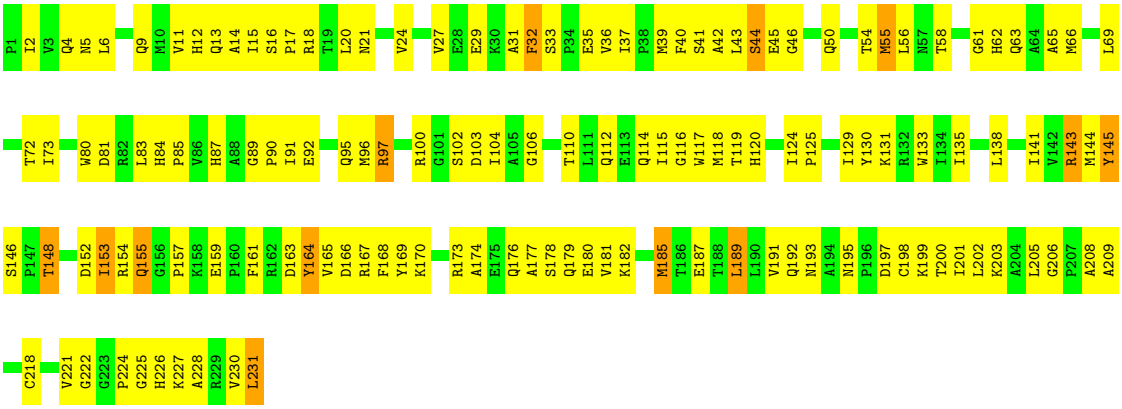
• Molecule 1: capsid protein

Chain ja:



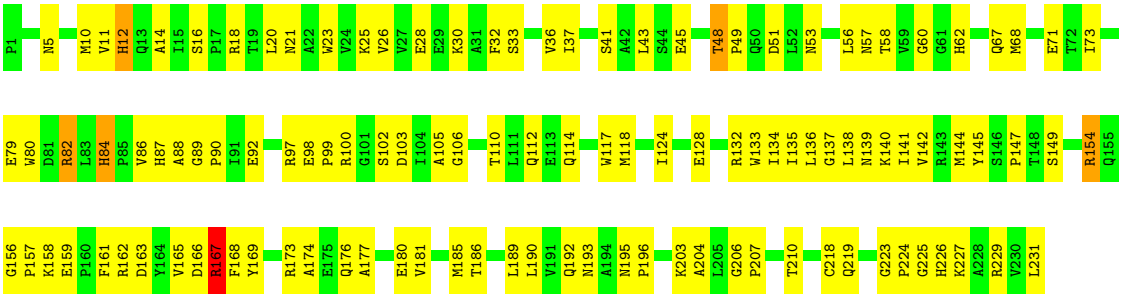
• Molecule 1: capsid protein

Chain jb:



• Molecule 1: capsid protein

Chain 1U:

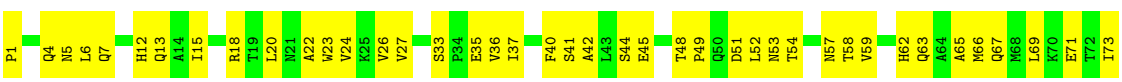


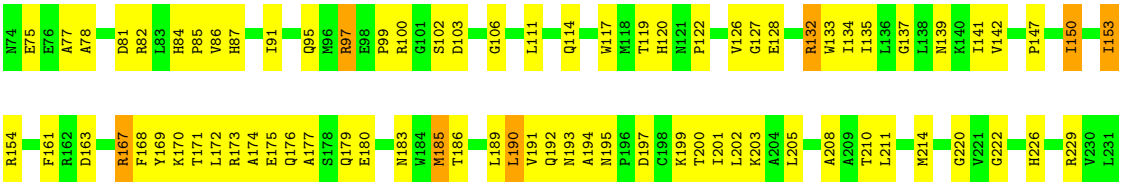
• Molecule 1: capsid protein

Chain jc:

• Molecule 1: capsid protein

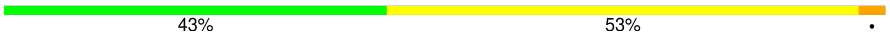
Chain jd:

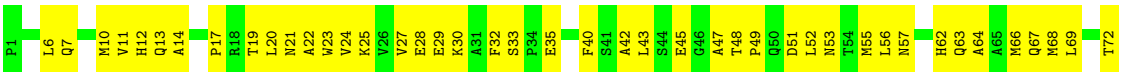


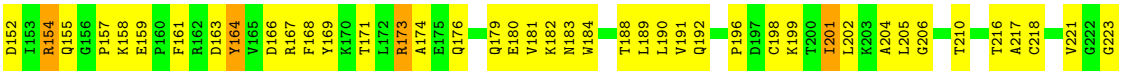


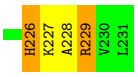
• Molecule 1: capsid protein

Chain je:



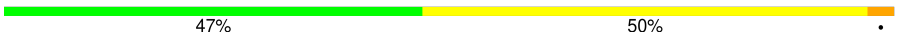


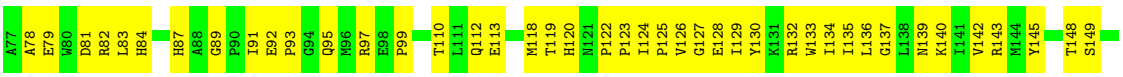


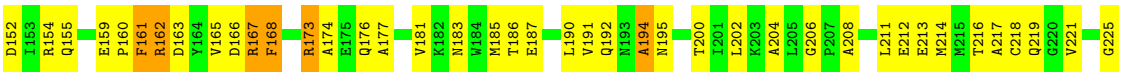


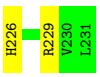
• Molecule 1: capsid protein

Chain jf:



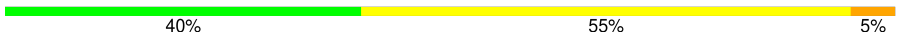


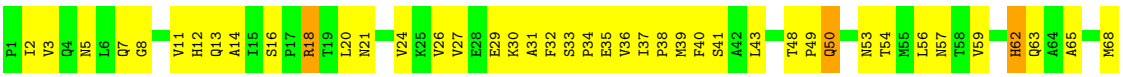


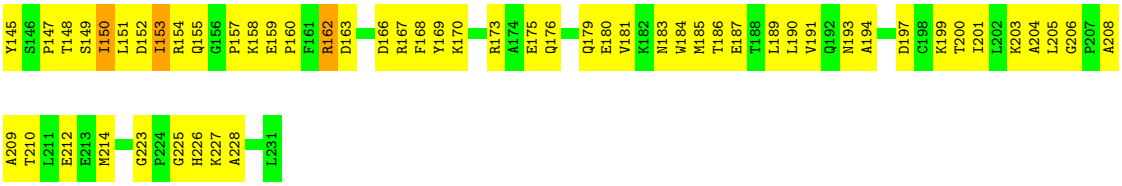


• Molecule 1: capsid protein

Chain jg:

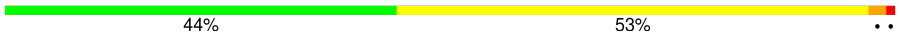






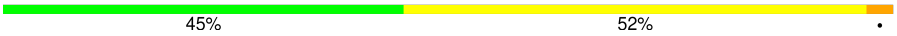
• Molecule 1: capsid protein

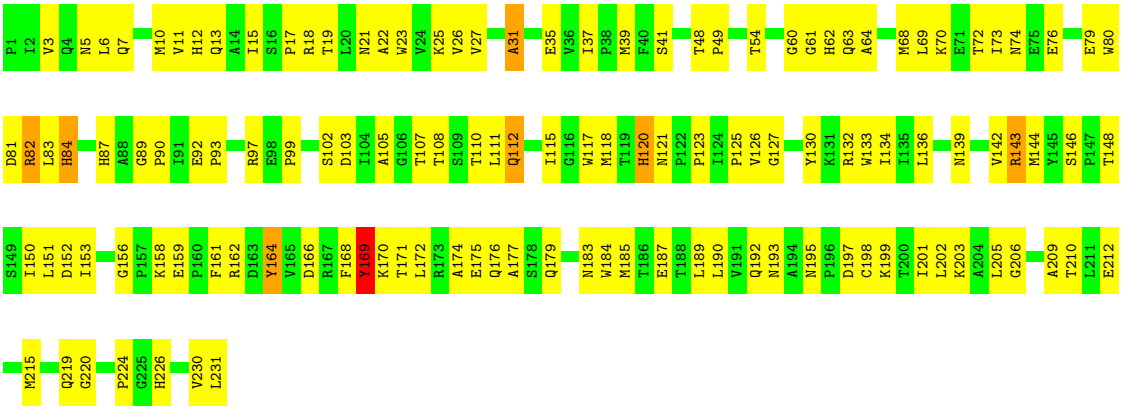
Chain jh:



• Molecule 1: capsid protein

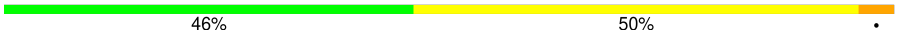
Chain ji:

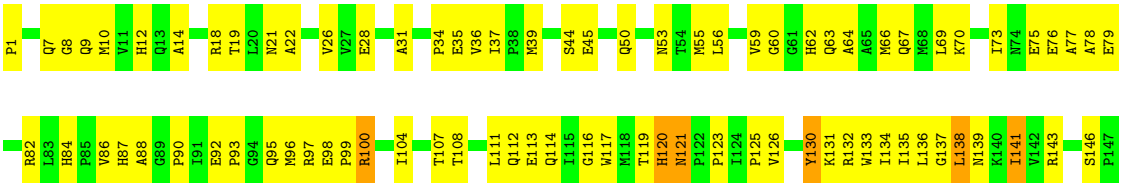


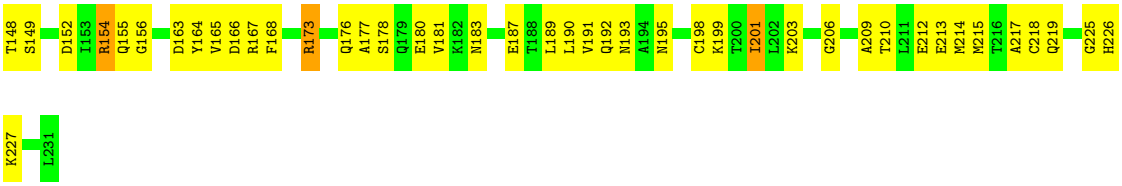


• Molecule 1: capsid protein

Chain jj:

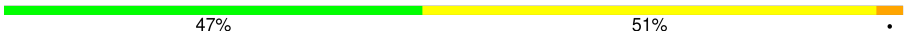


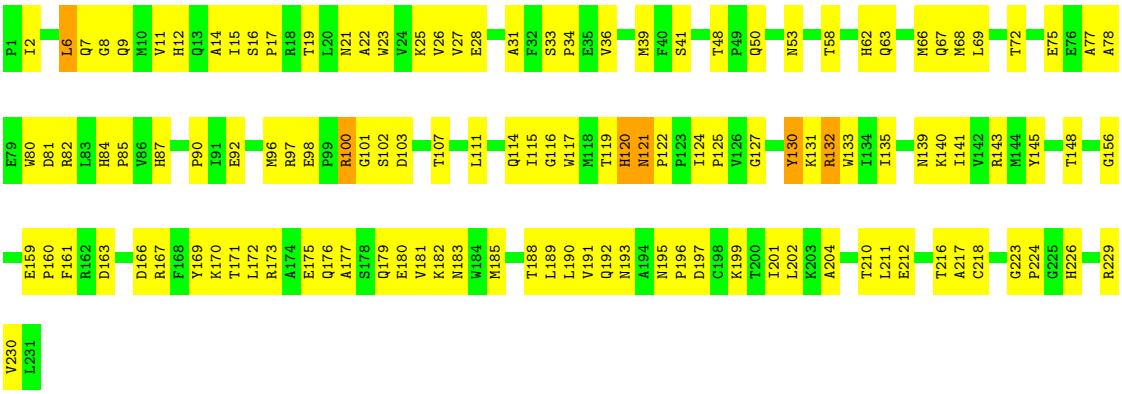




• Molecule 1: capsid protein

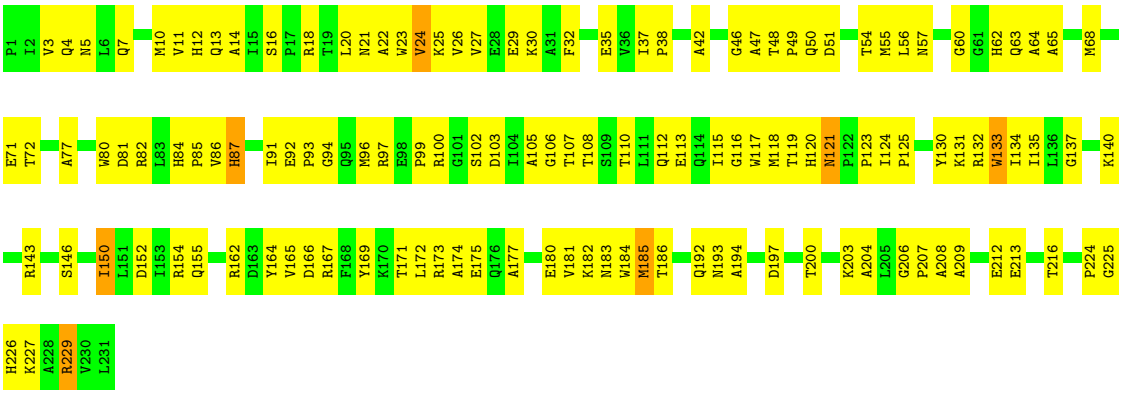
Chain jk:





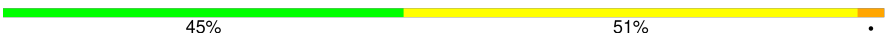
• Molecule 1: capsid protein

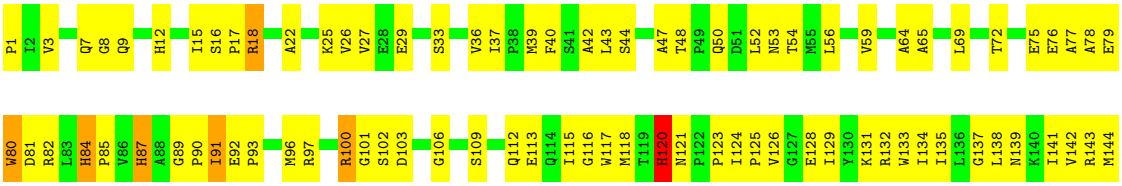
Chain jl:

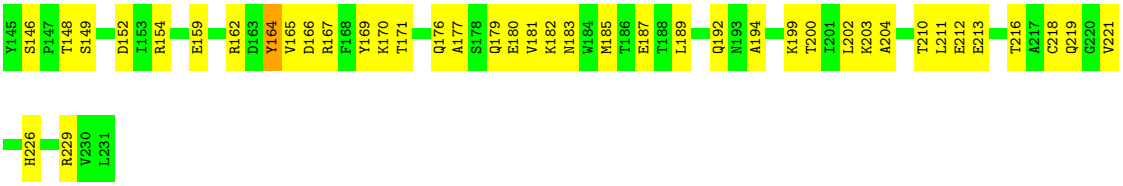


• Molecule 1: capsid protein

Chain 1V:

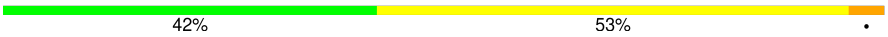


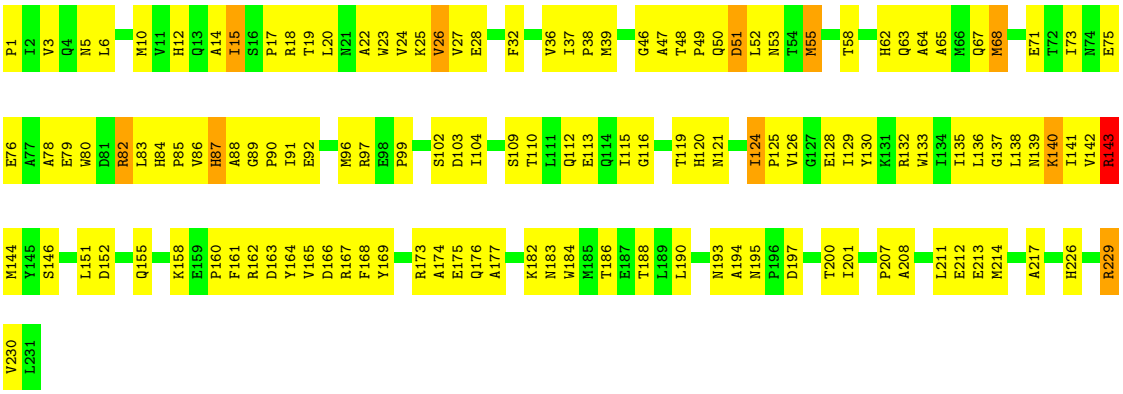




• Molecule 1: capsid protein

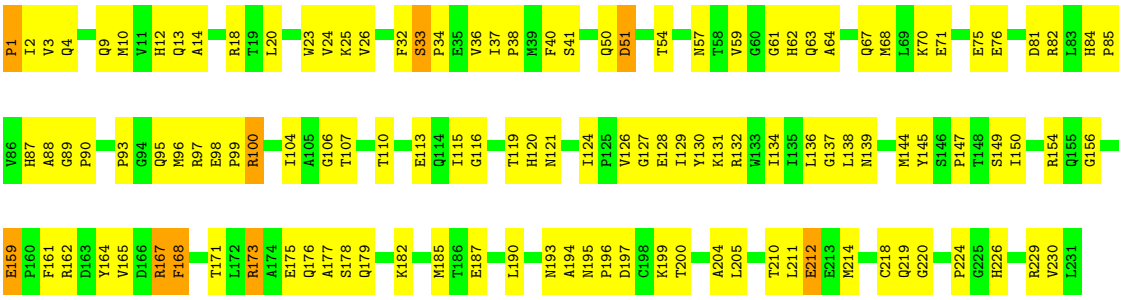
Chain jm:





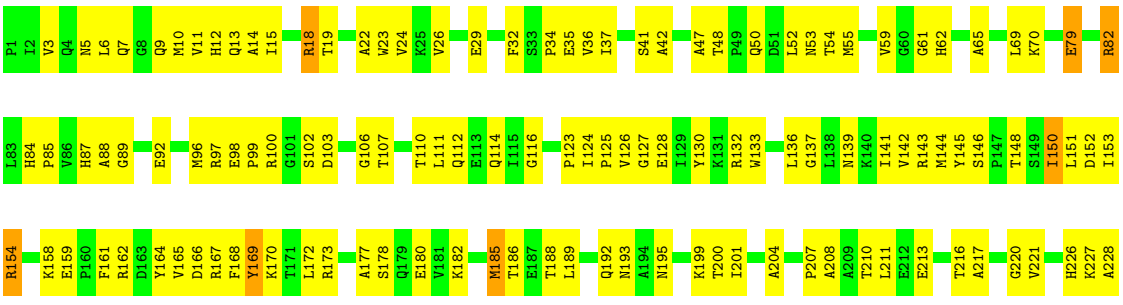
• Molecule 1: capsid protein

Chain jn:



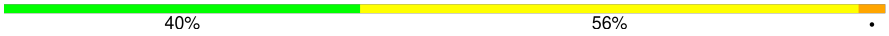
• Molecule 1: capsid protein

Chain jo:



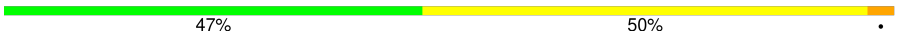
• Molecule 1: capsid protein

Chain jp:



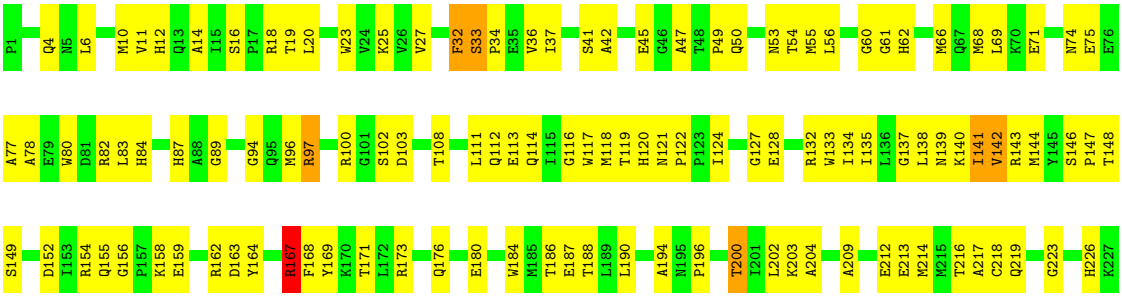
• Molecule 1: capsid protein

Chain jq:



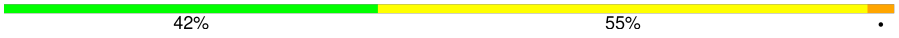
• Molecule 1: capsid protein

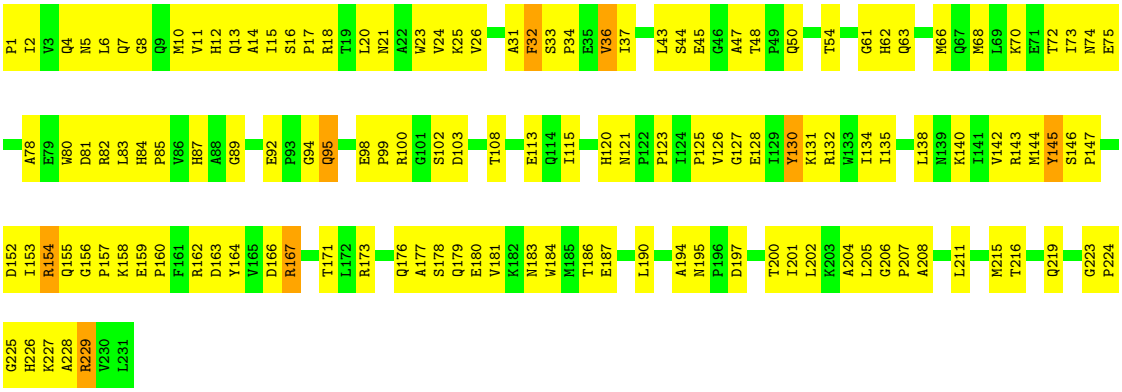
Chain jr:



• Molecule 1: capsid protein

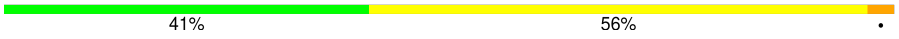
Chain js:

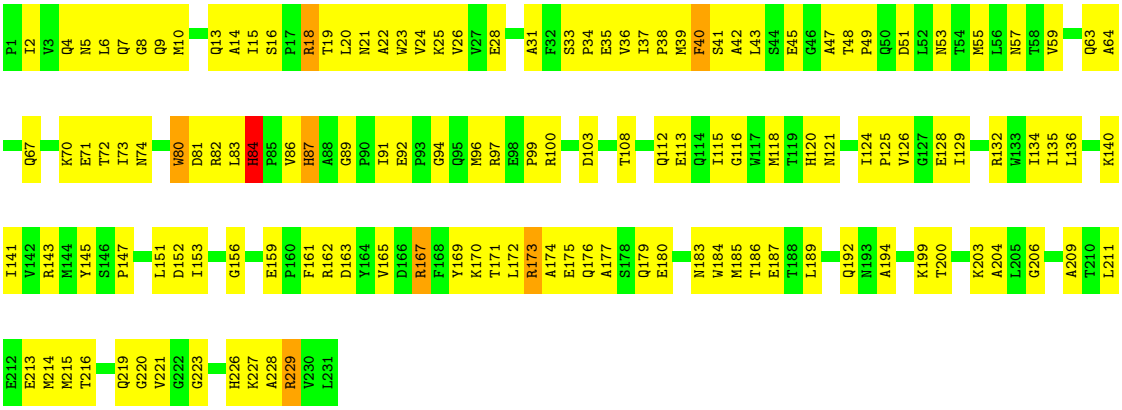




• Molecule 1: capsid protein

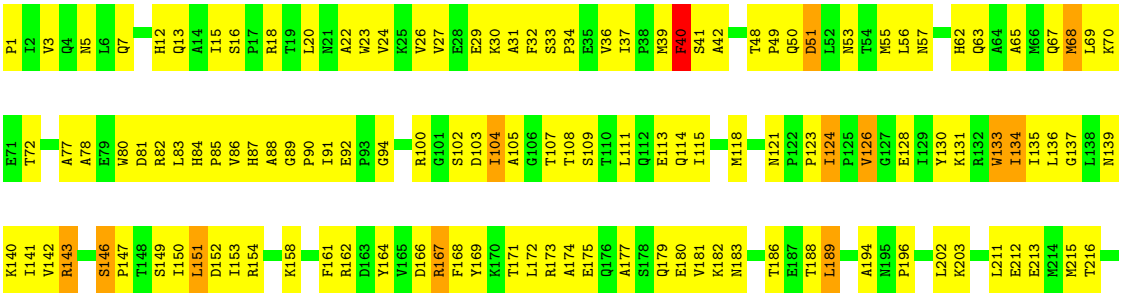
Chain jt:

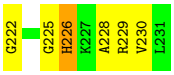




• Molecule 1: capsid protein

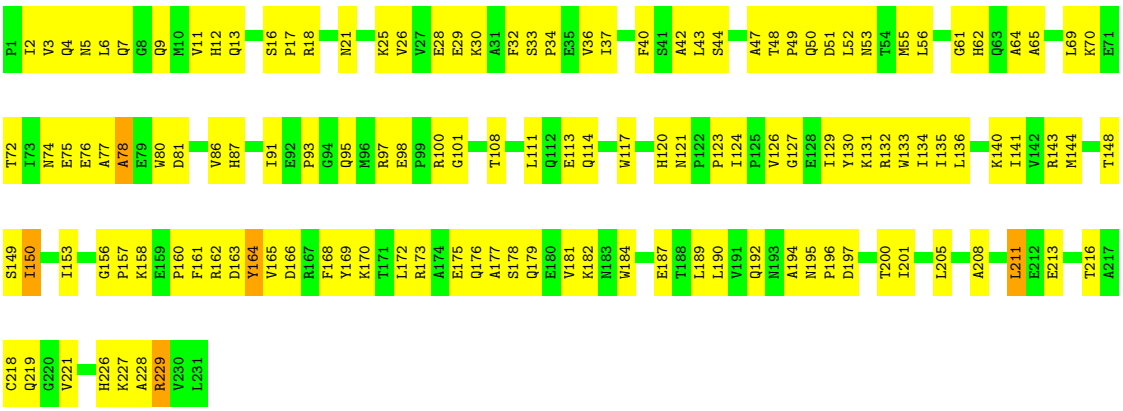
Chain ju:





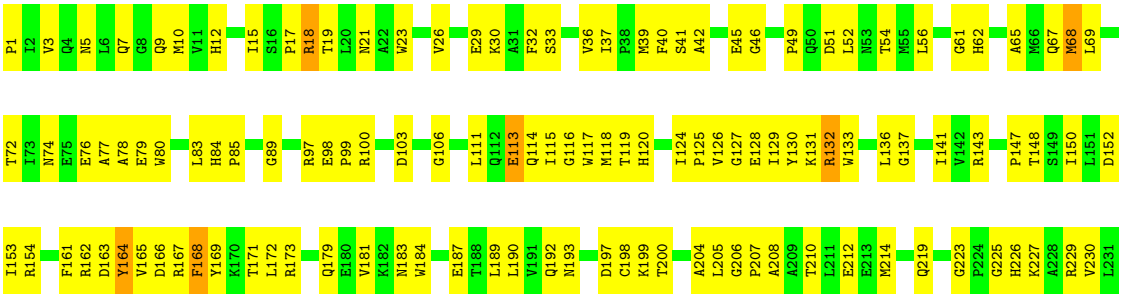
• Molecule 1: capsid protein

Chain jv:



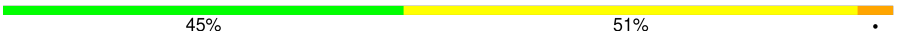
• Molecule 1: capsid protein

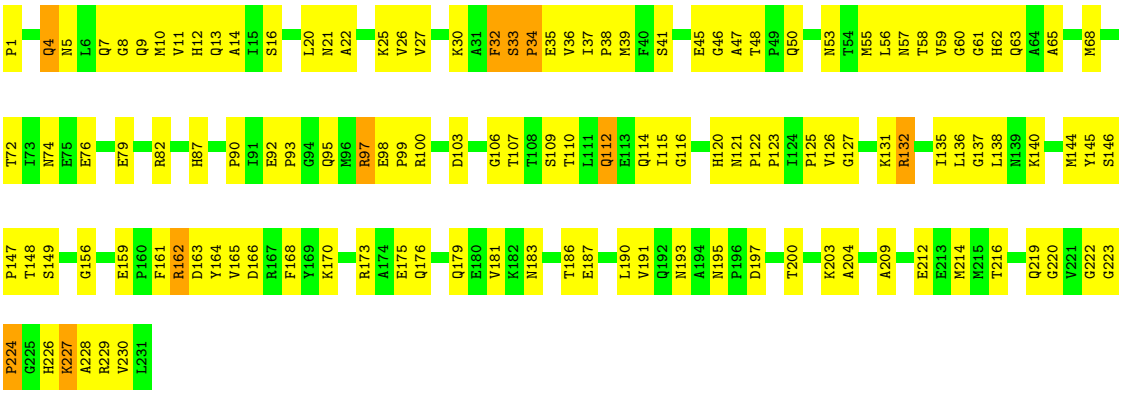
Chain 1W:



• Molecule 1: capsid protein

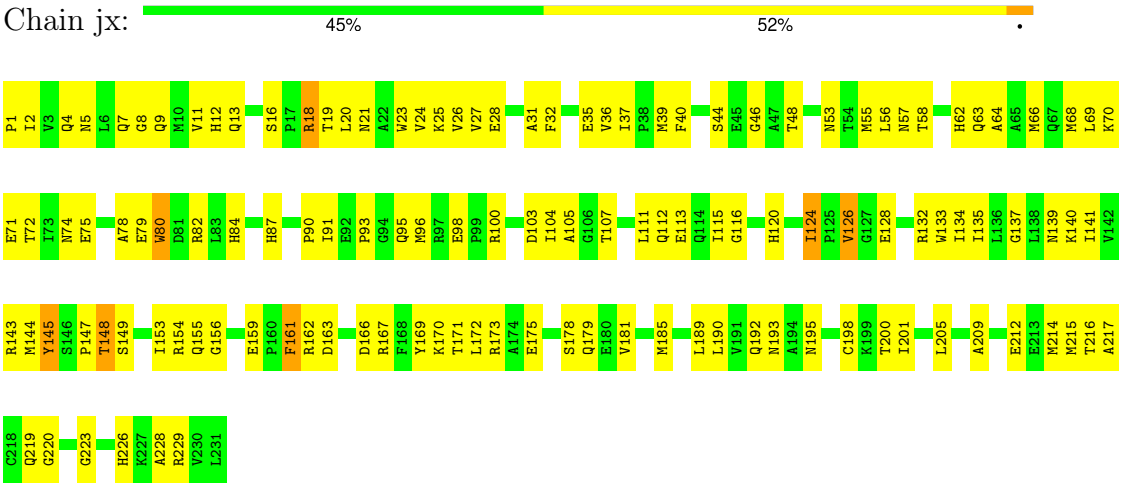
Chain jw:





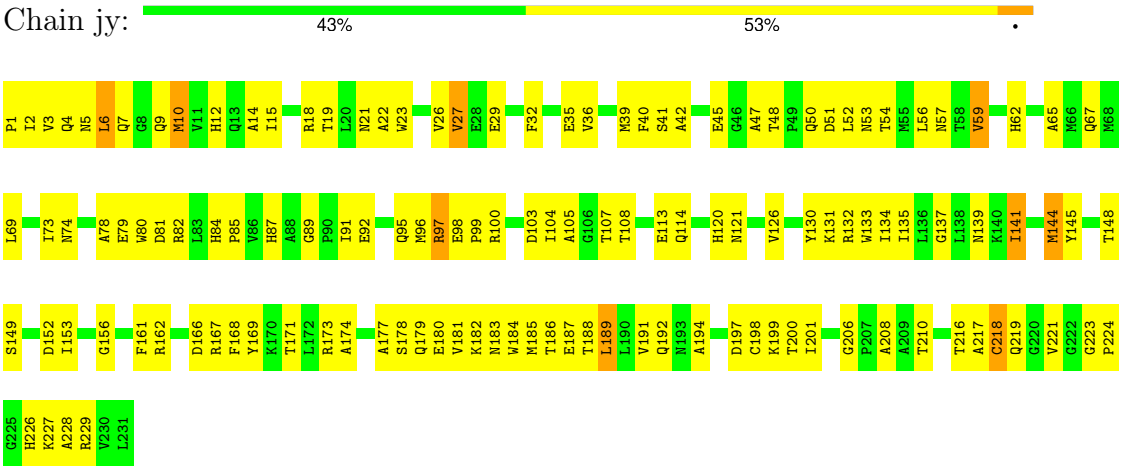
• Molecule 1: capsid protein

Chain jx:



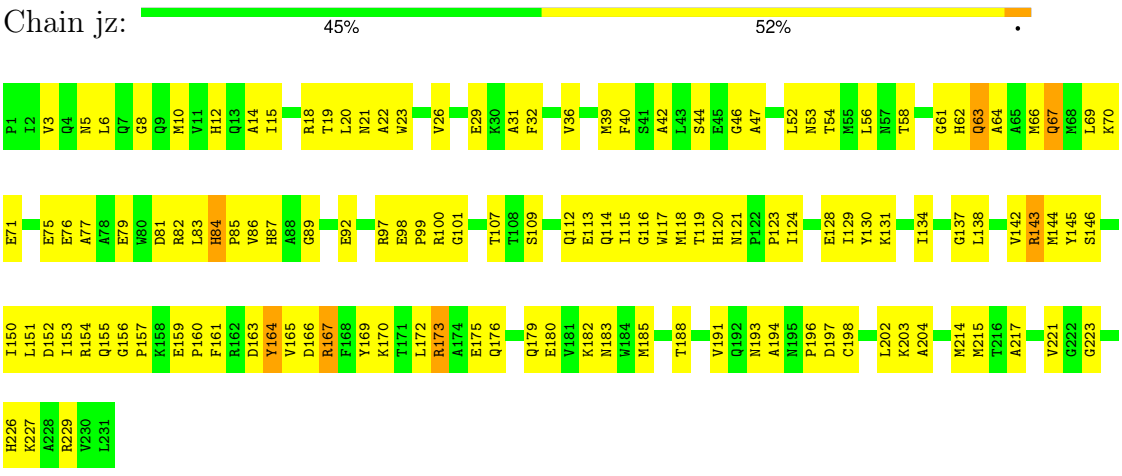
• Molecule 1: capsid protein

Chain jy:



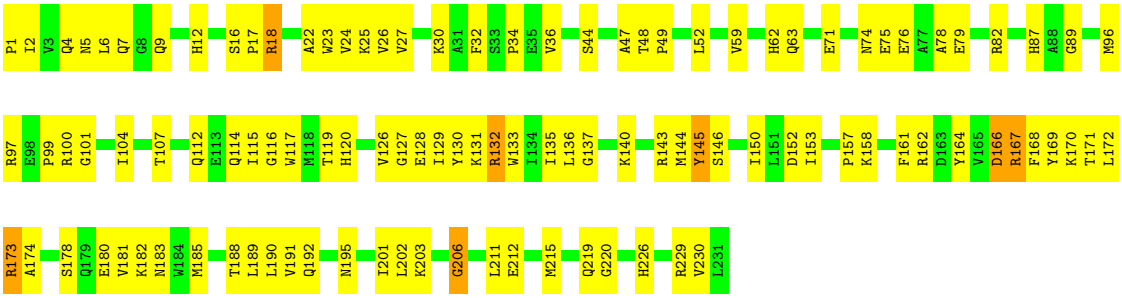
• Molecule 1: capsid protein

Chain jz:



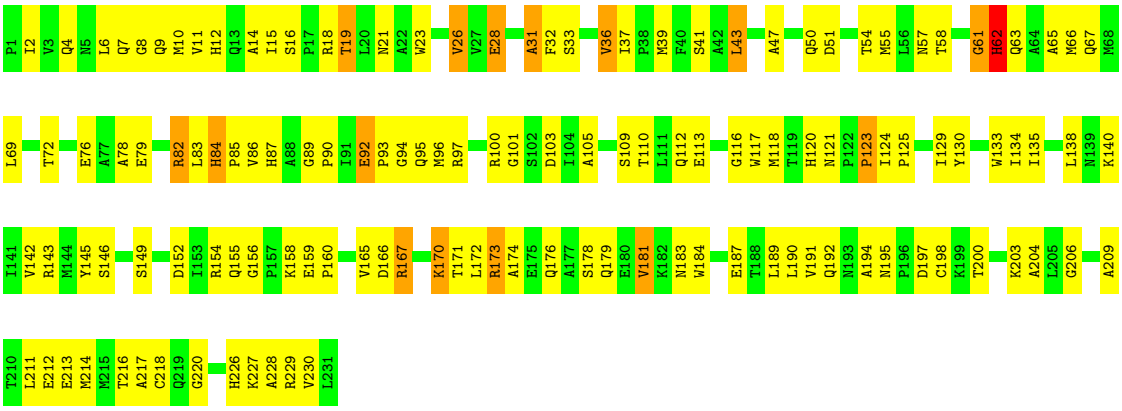
• Molecule 1: capsid protein

Chain jA:



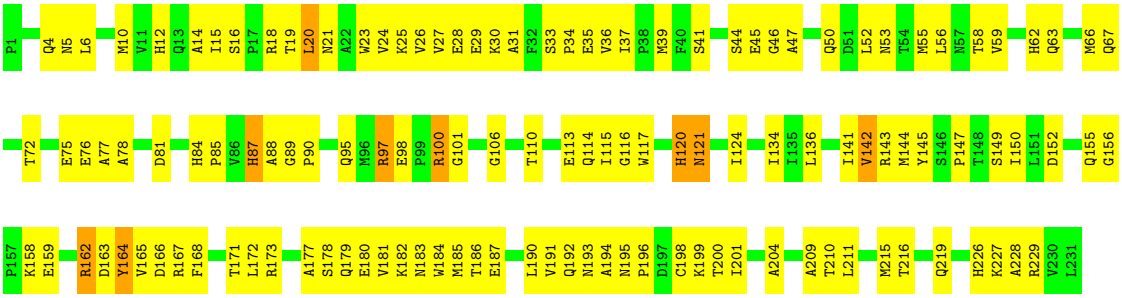
• Molecule 1: capsid protein

Chain jB:



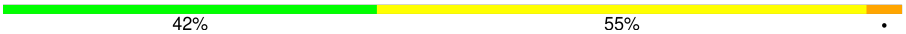
• Molecule 1: capsid protein

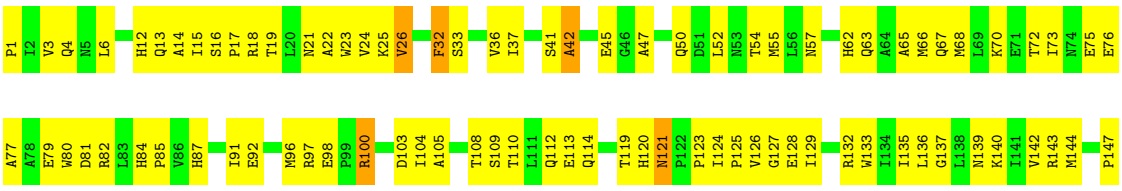
Chain jC:

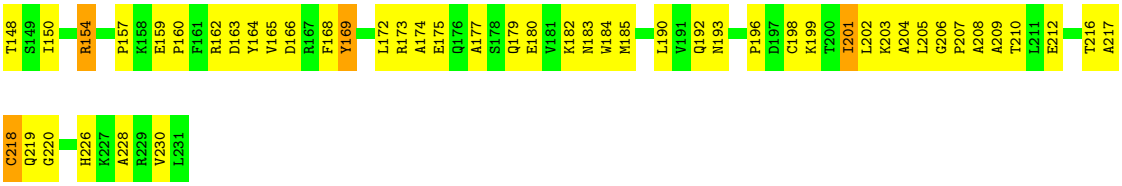


• Molecule 1: capsid protein

Chain jD:

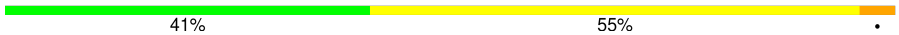


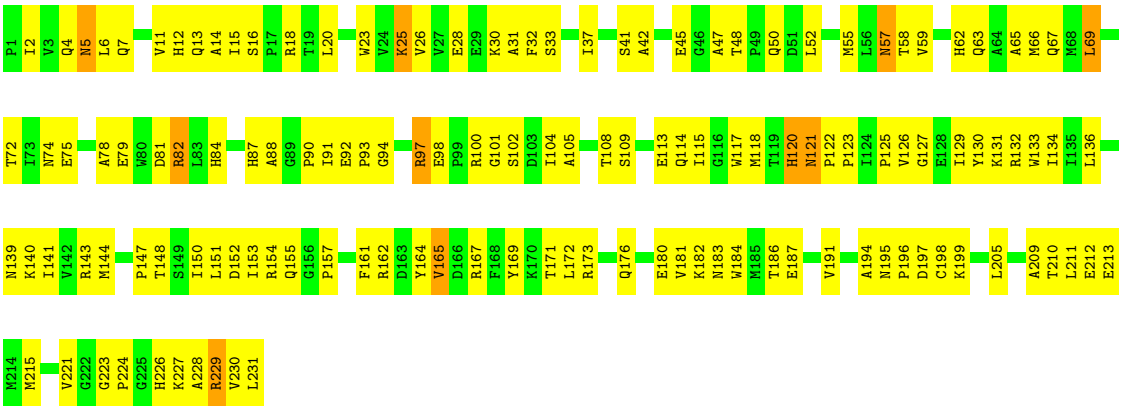




• Molecule 1: capsid protein

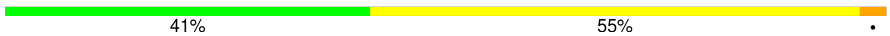
Chain jE:

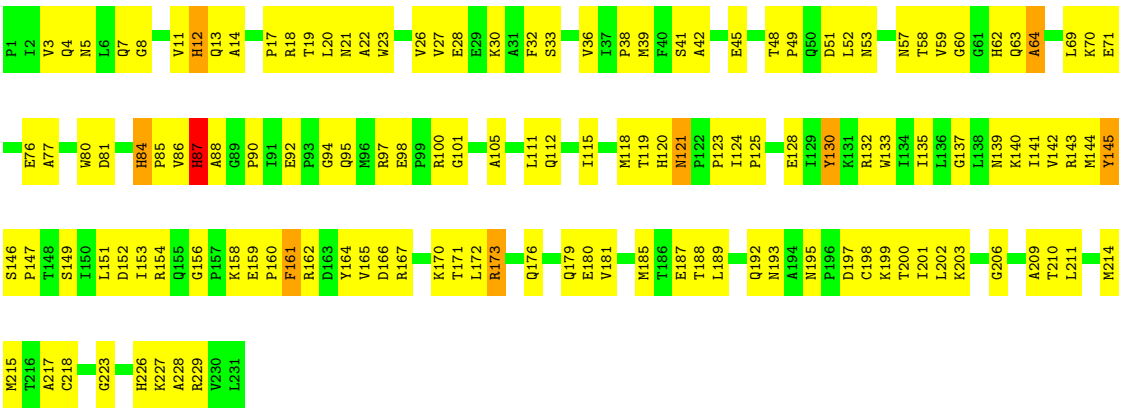




• Molecule 1: capsid protein

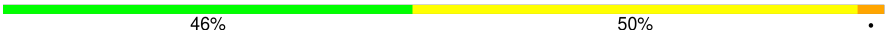
Chain jF:

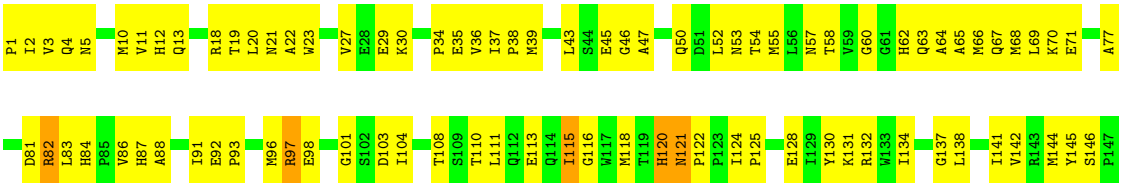


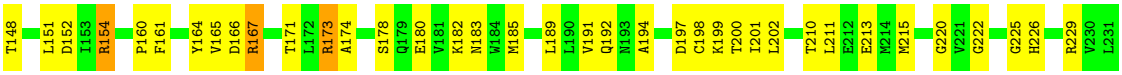


• Molecule 1: capsid protein

Chain 1X:

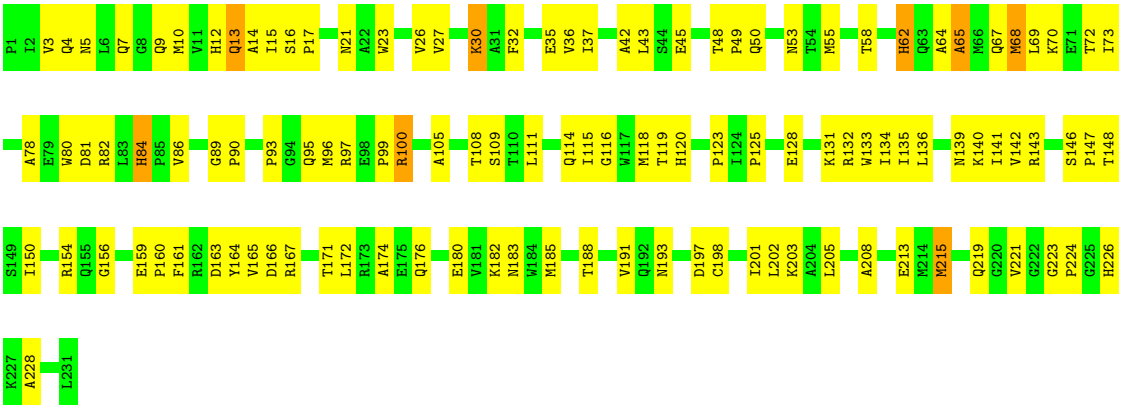






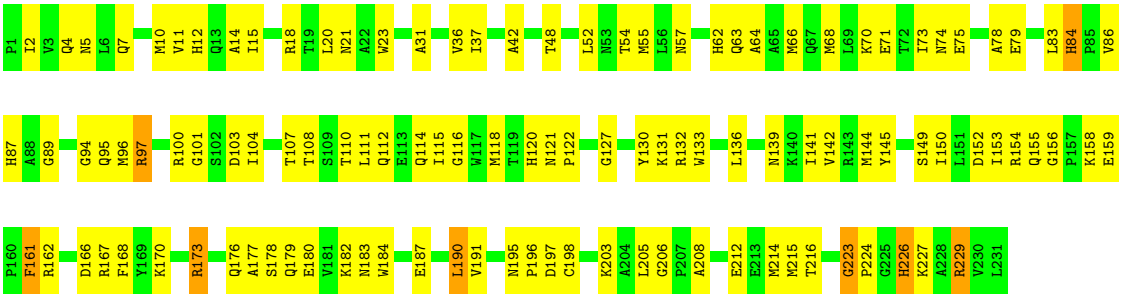
• Molecule 1: capsid protein

Chain jG:



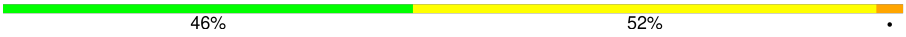
• Molecule 1: capsid protein

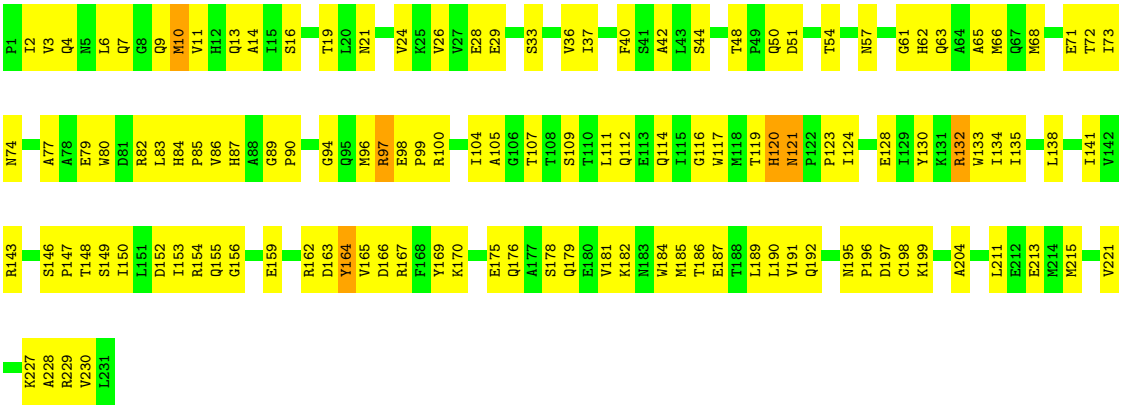
Chain jH:



• Molecule 1: capsid protein

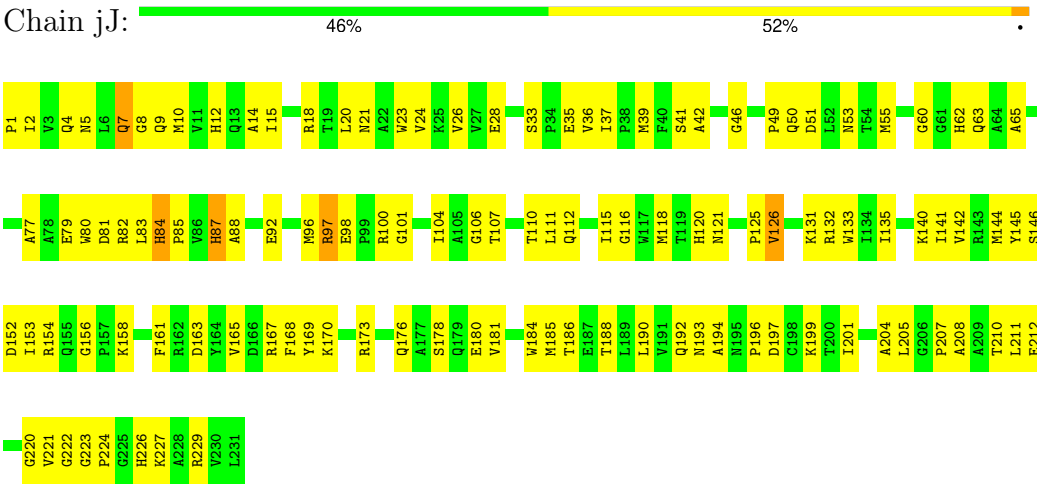
Chain jI:





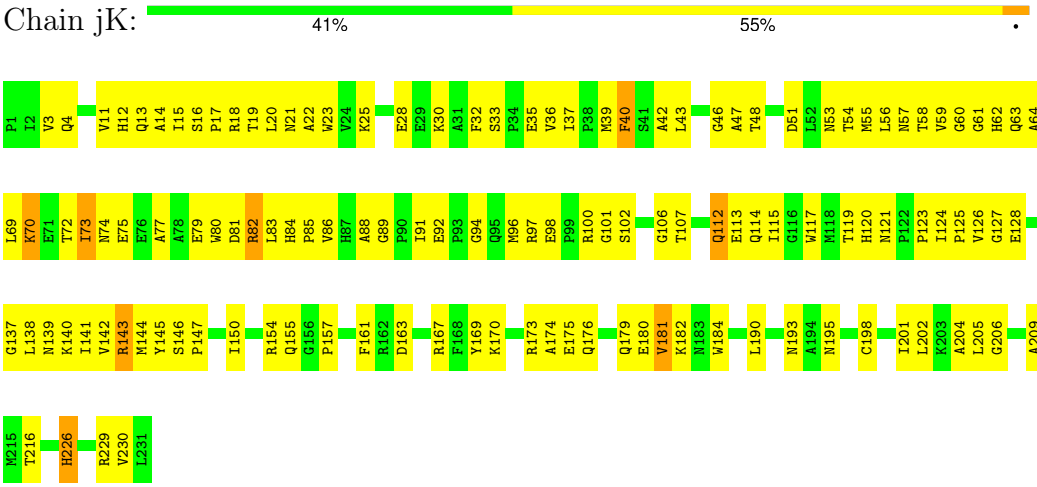
• Molecule 1: capsid protein

Chain jJ:



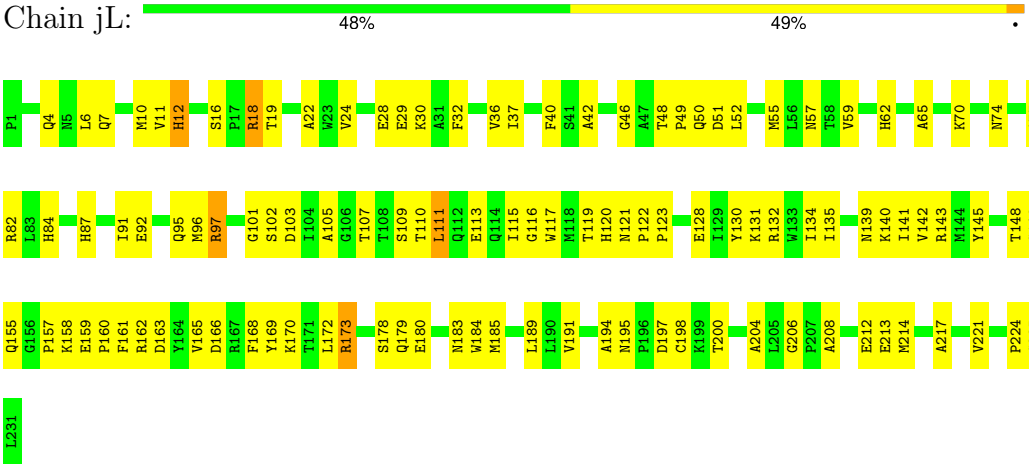
• Molecule 1: capsid protein

Chain jK:



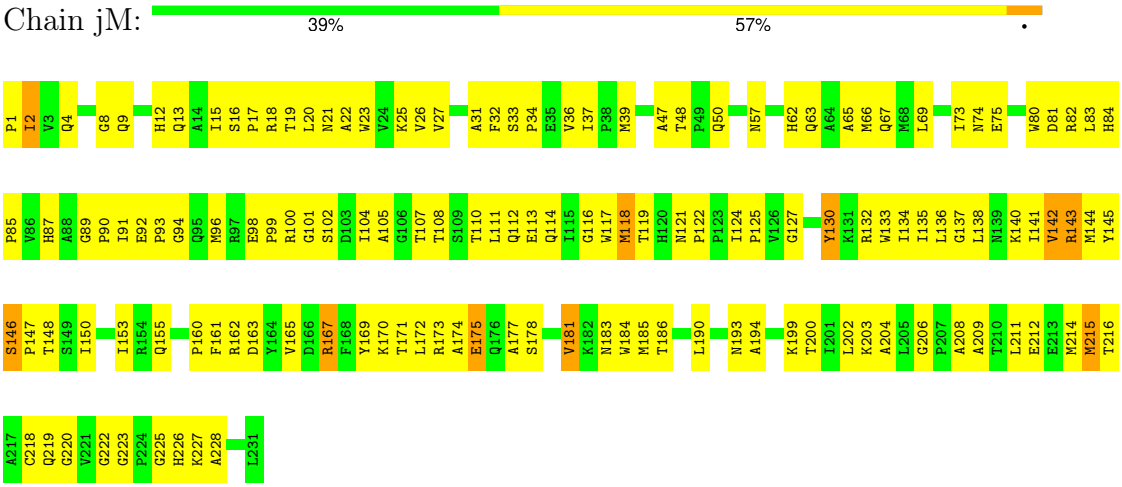
• Molecule 1: capsid protein

Chain jL:



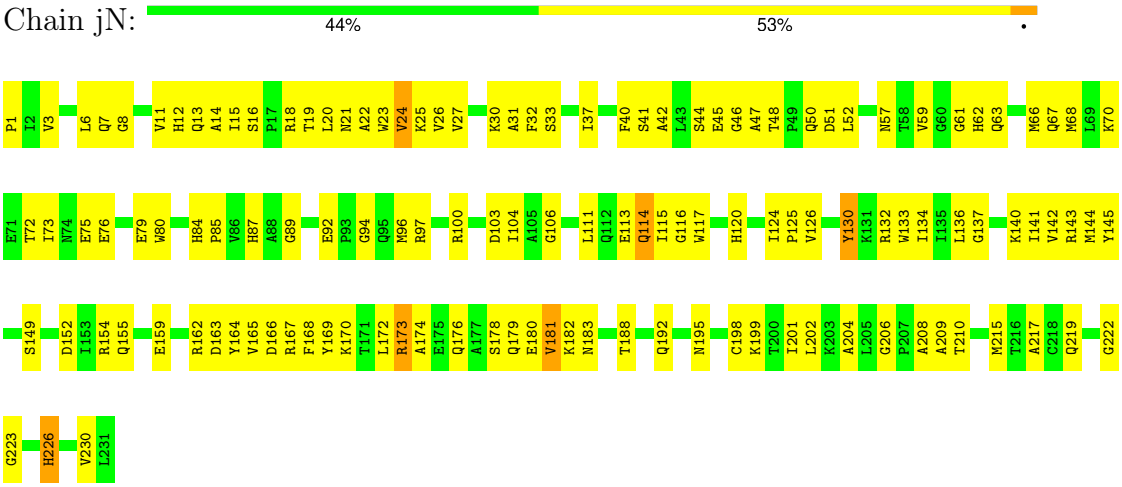
• Molecule 1: capsid protein

Chain jM:



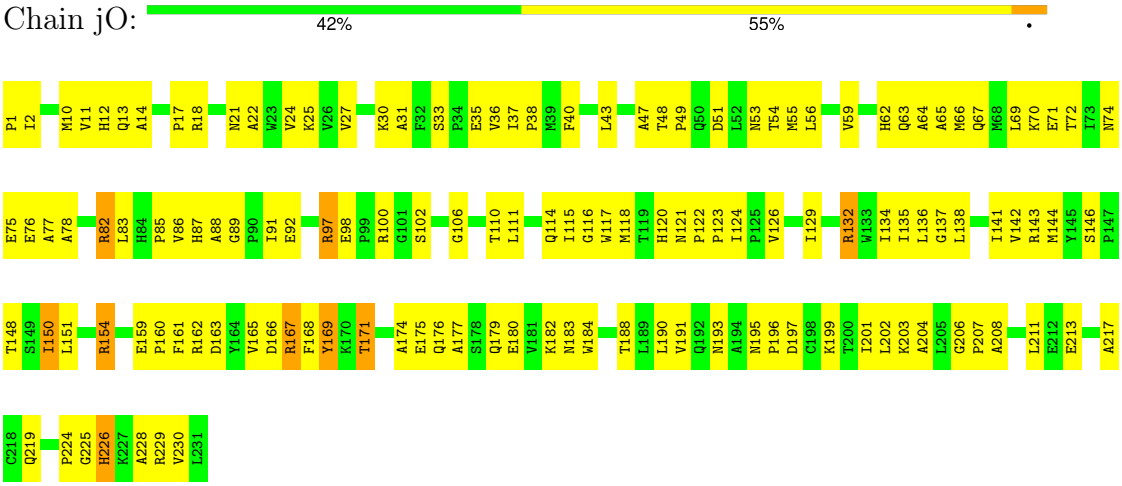
• Molecule 1: capsid protein

Chain jN:



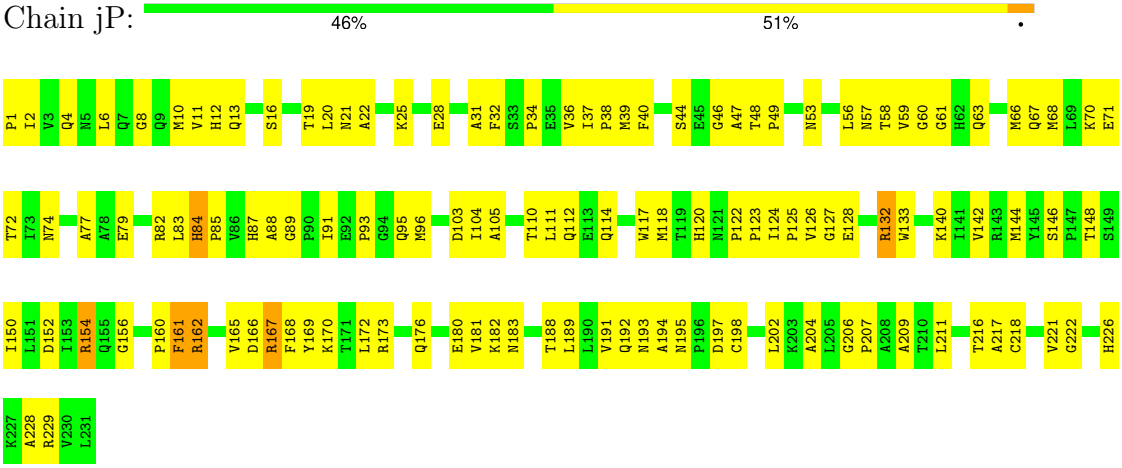
• Molecule 1: capsid protein

Chain jO:



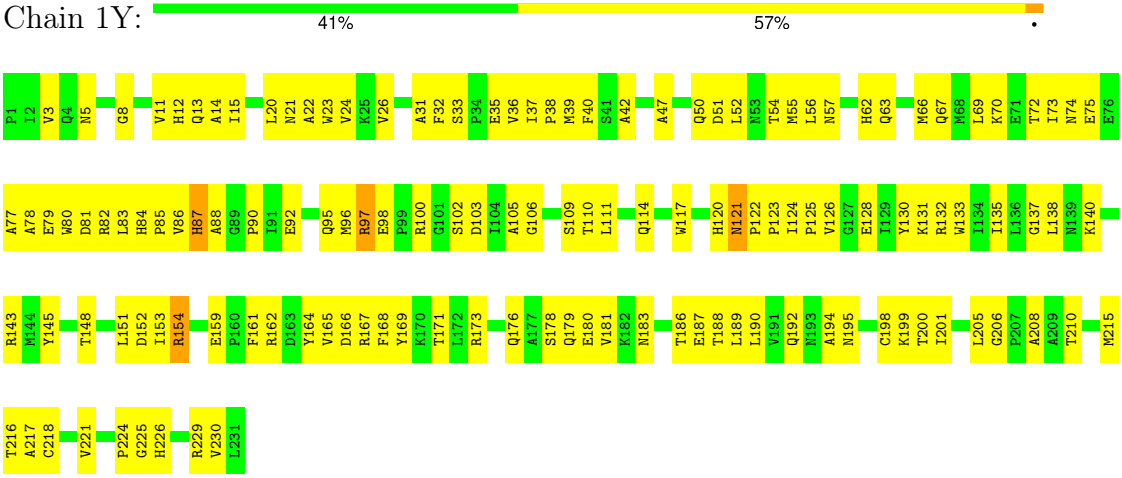
• Molecule 1: capsid protein

Chain jP:



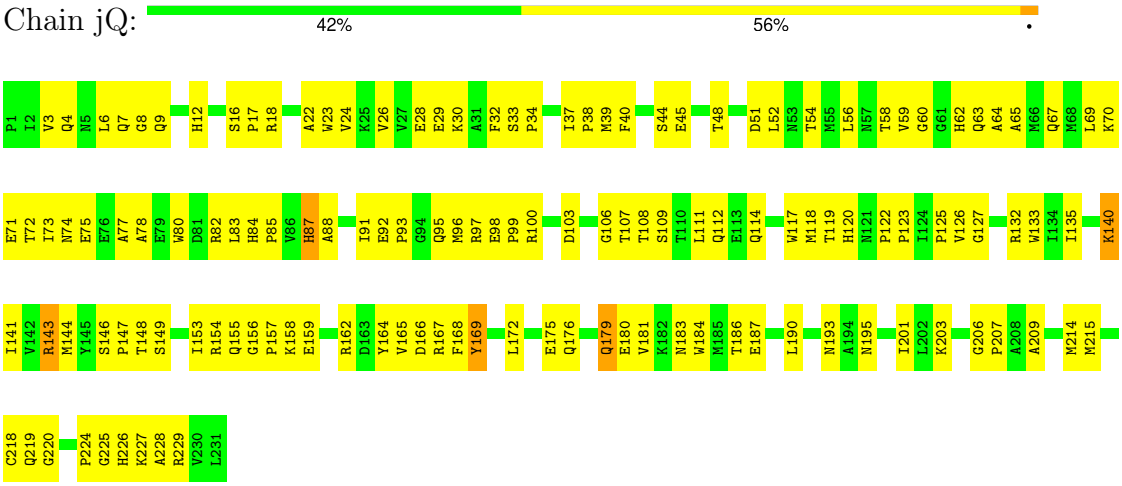
• Molecule 1: capsid protein

Chain 1Y:



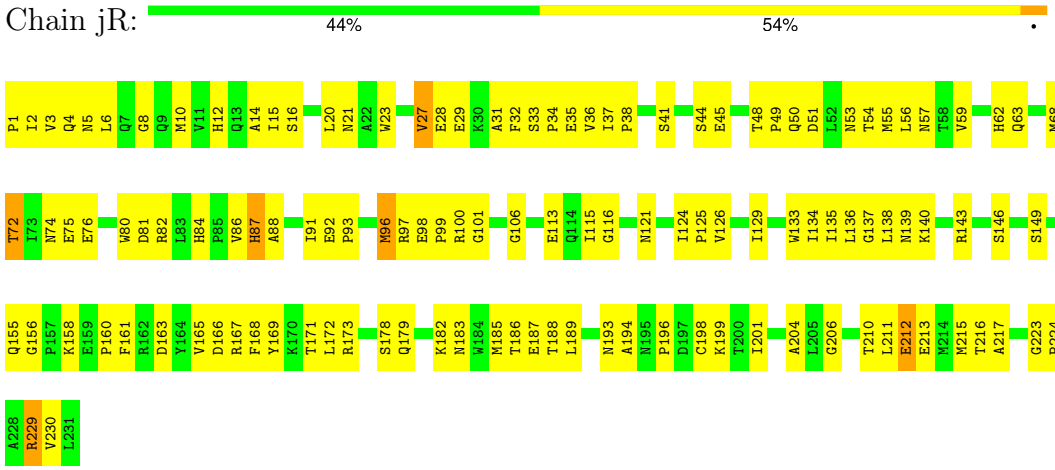
• Molecule 1: capsid protein

Chain jQ:



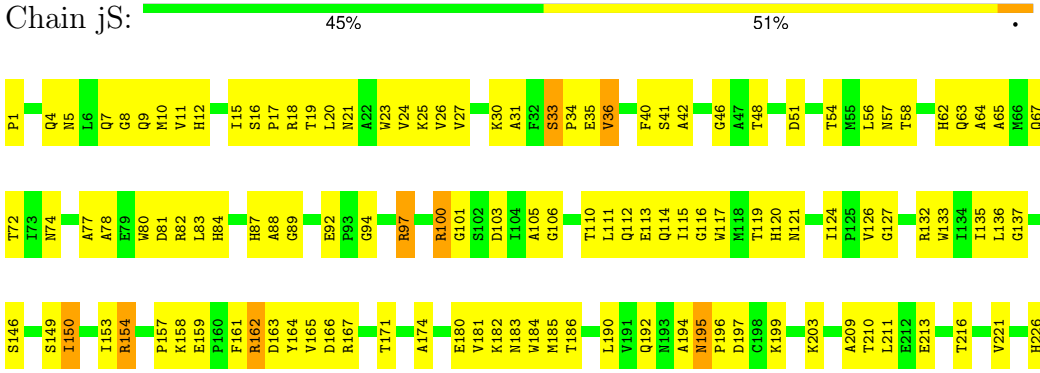
• Molecule 1: capsid protein

Chain jR:



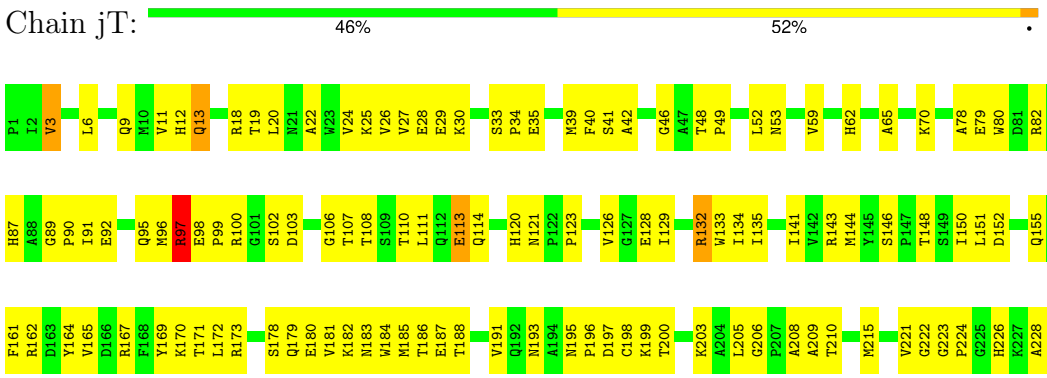
• Molecule 1: capsid protein

Chain jS:



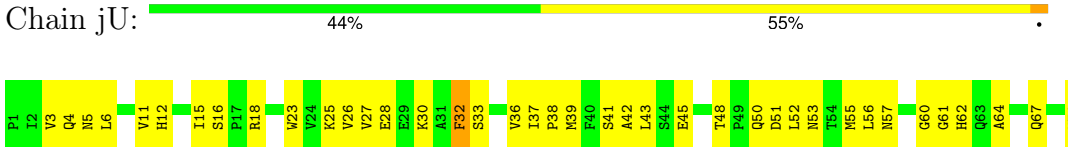
• Molecule 1: capsid protein

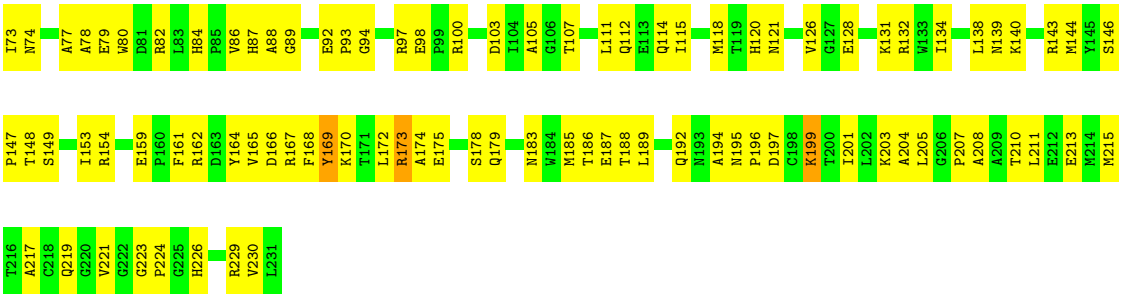
Chain jT:



• Molecule 1: capsid protein

Chain jU:





• Molecule 1: capsid protein

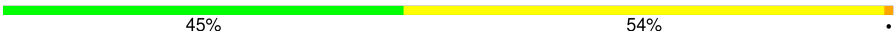
Chain jV:

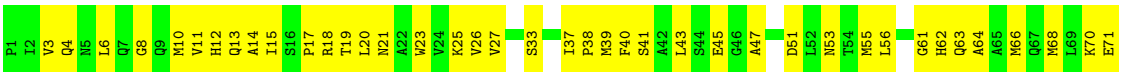
• Molecule 1: capsid protein

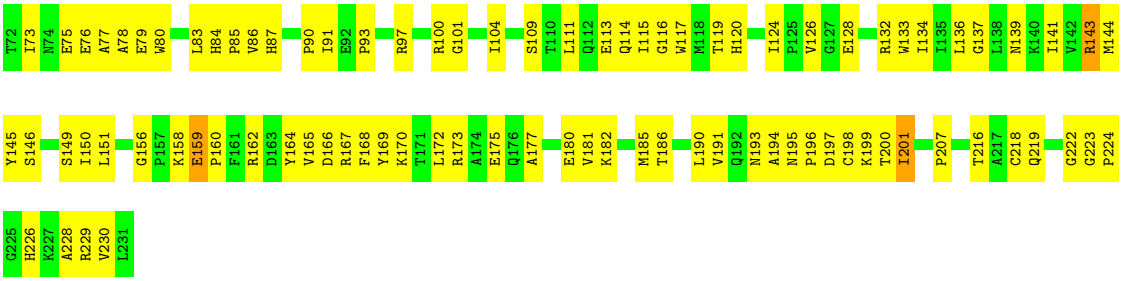
Chain jW:

• Molecule 1: capsid protein

Chain jX:

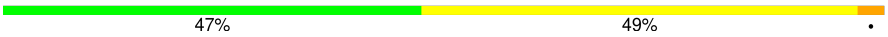


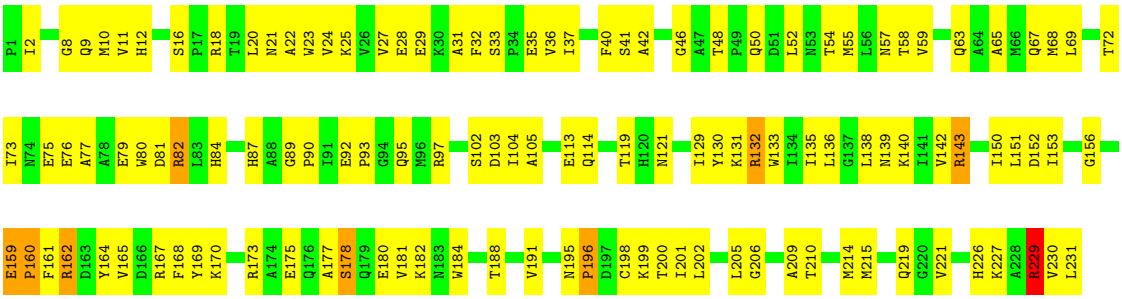




• Molecule 1: capsid protein

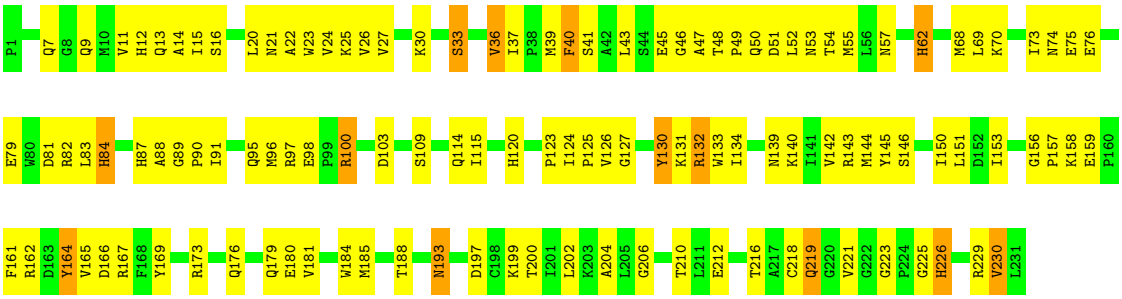
Chain jY:





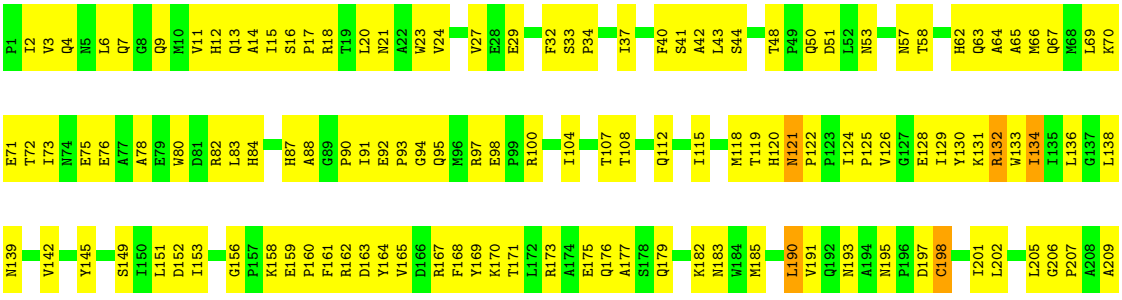
• Molecule 1: capsid protein

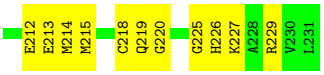
Chain jZ:



• Molecule 1: capsid protein

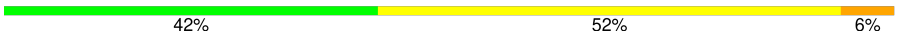
Chain 1Z:

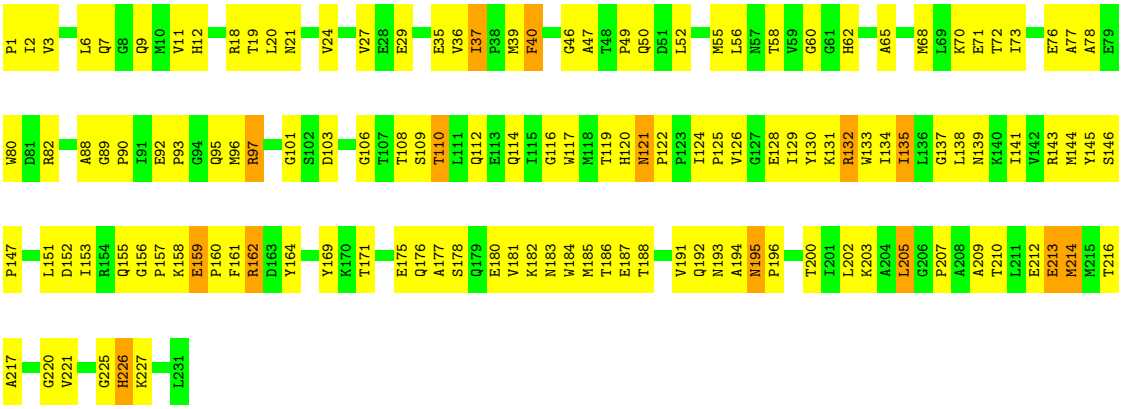




• Molecule 1: capsid protein

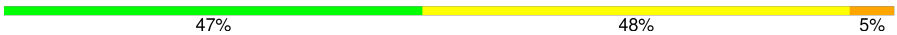
Chain k0:





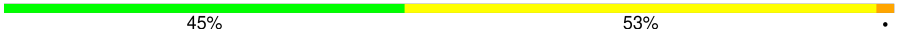
• Molecule 1: capsid protein

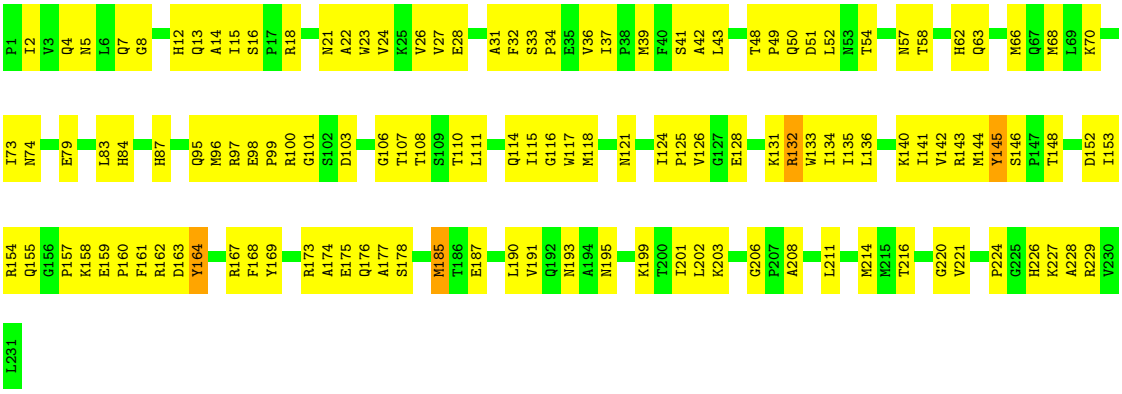
Chain k1:



• Molecule 1: capsid protein

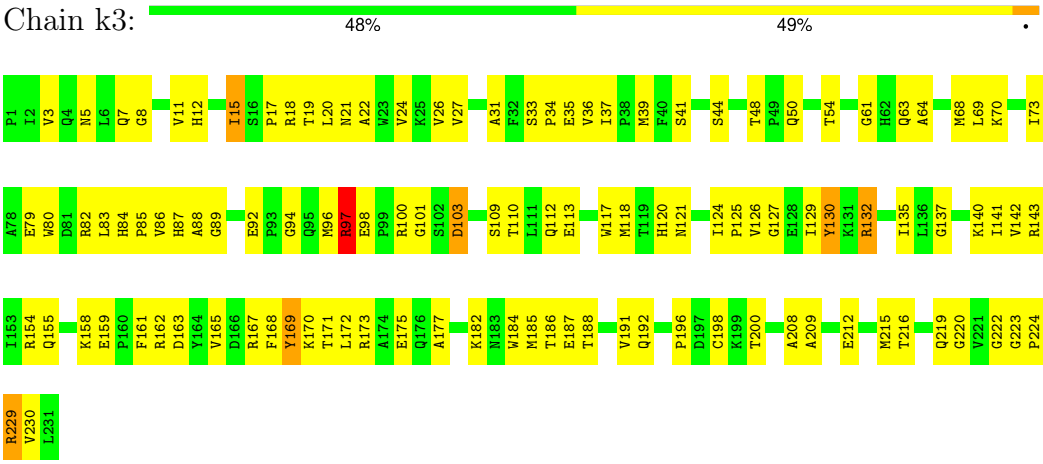
Chain k2:





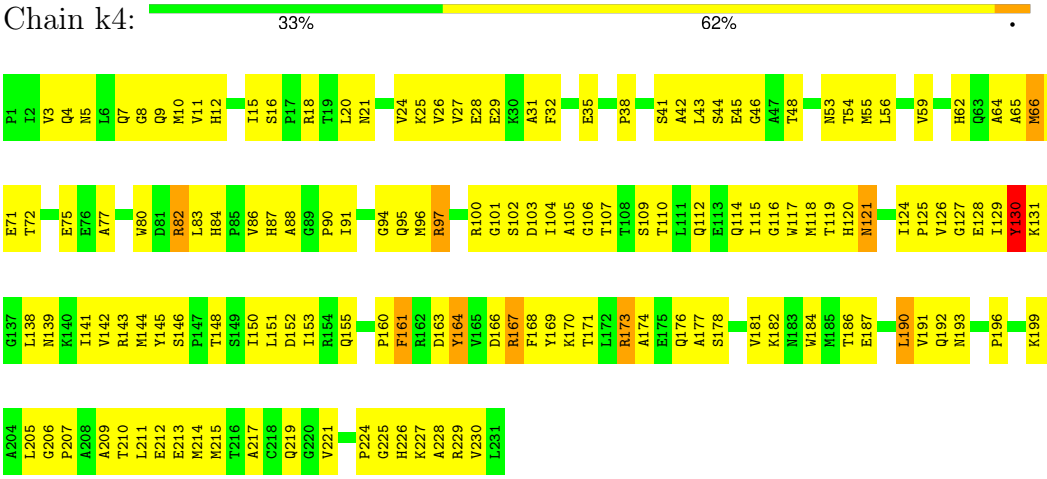
• Molecule 1: capsid protein

Chain k3:



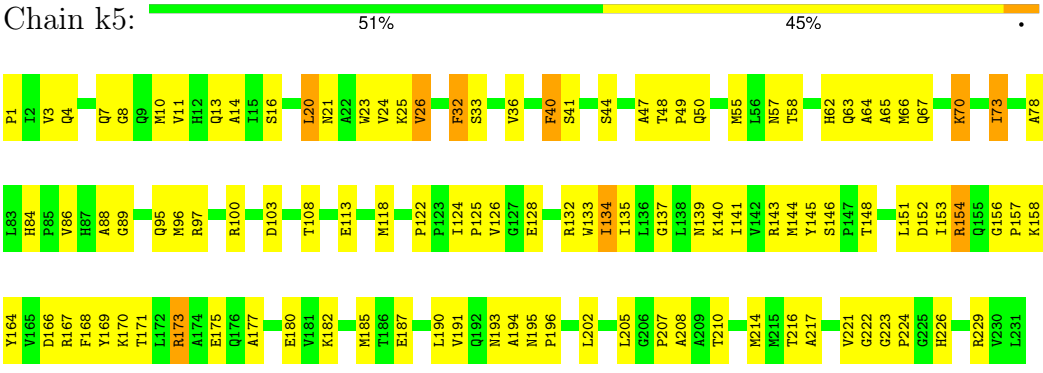
• Molecule 1: capsid protein

Chain k4:



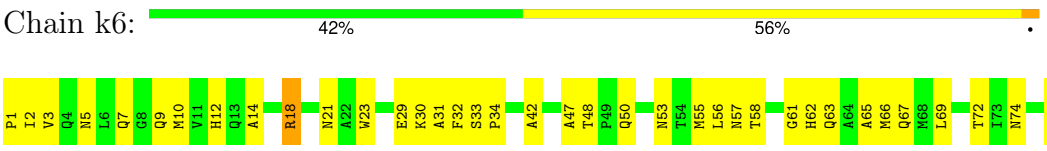
• Molecule 1: capsid protein

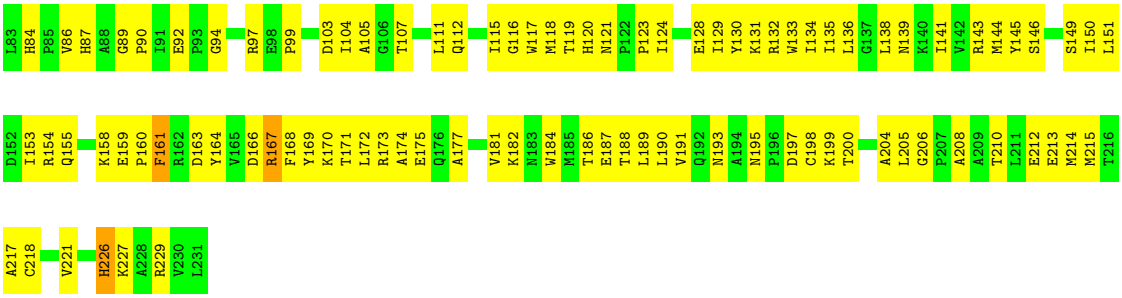
Chain k5:



• Molecule 1: capsid protein

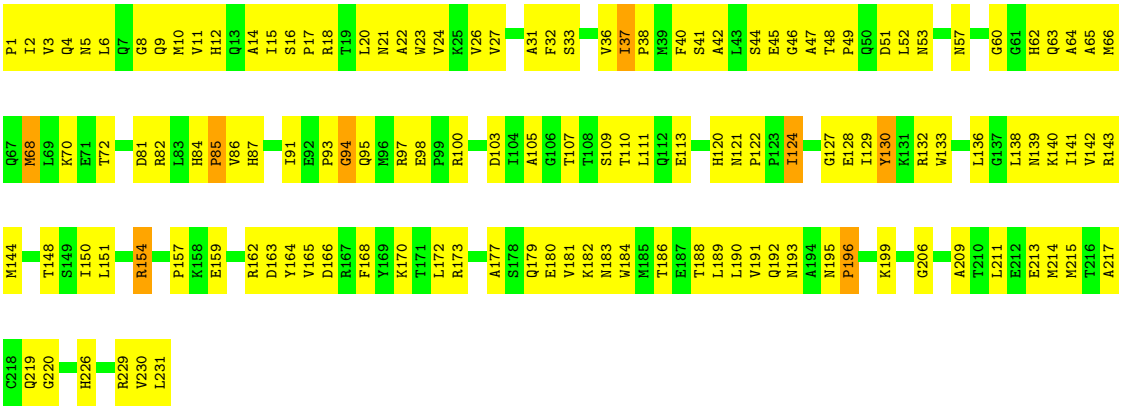
Chain k6:





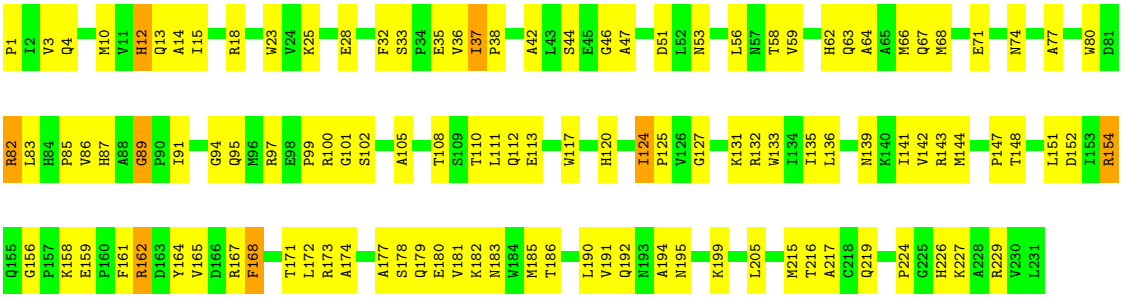
• Molecule 1: capsid protein

Chain k7:



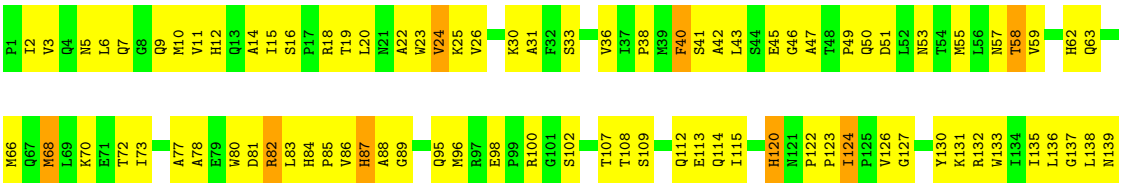
• Molecule 1: capsid protein

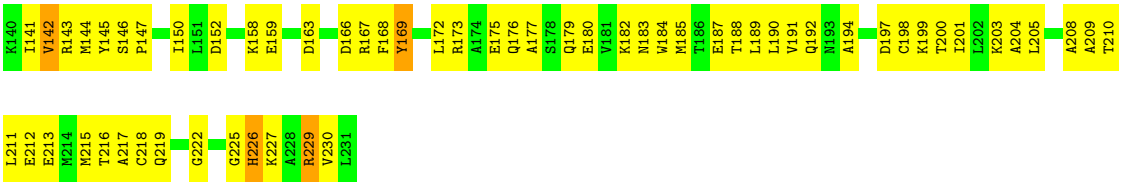
Chain k8:



• Molecule 1: capsid protein

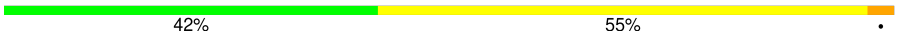
Chain k9:

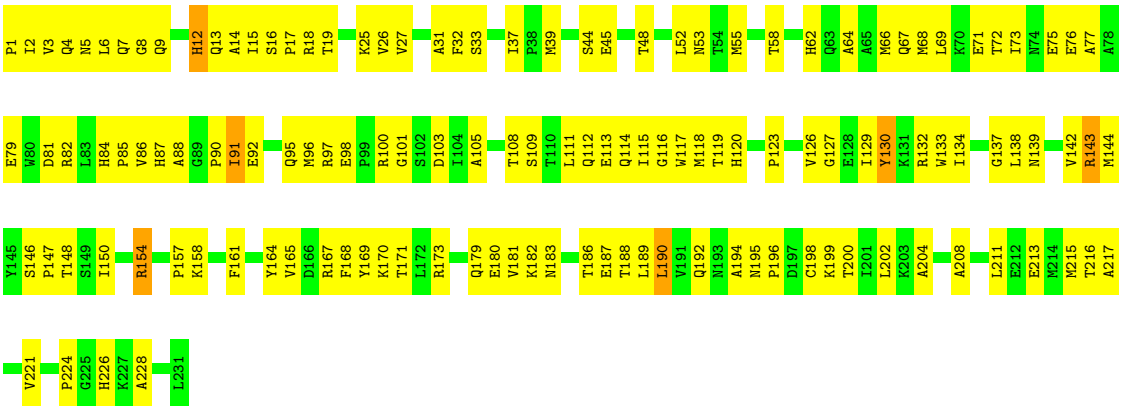




• Molecule 1: capsid protein

Chain 20:



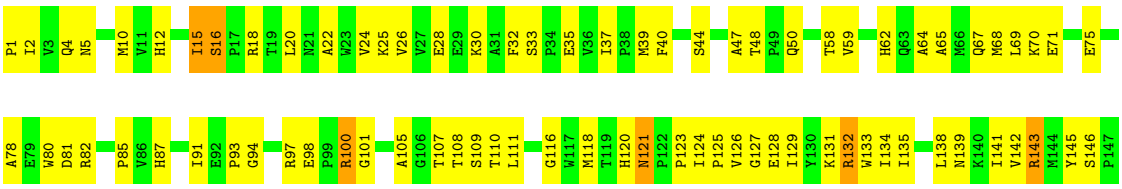


• Molecule 1: capsid protein

Chain ka:

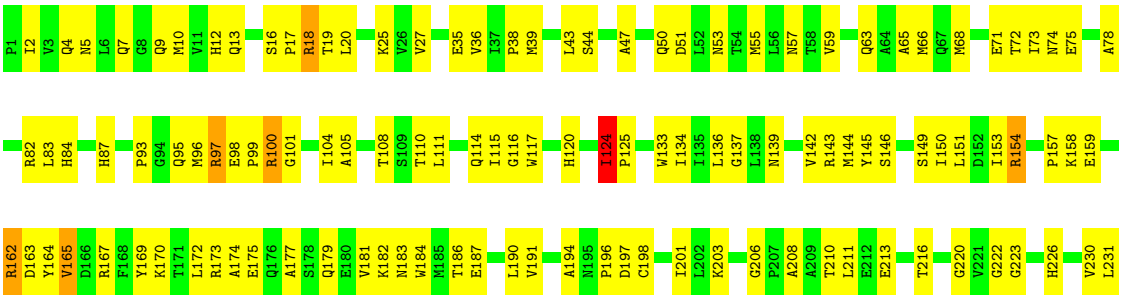
• Molecule 1: capsid protein

Chain kb:



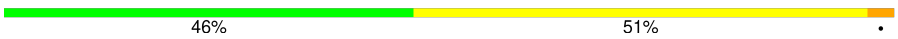
• Molecule 1: capsid protein

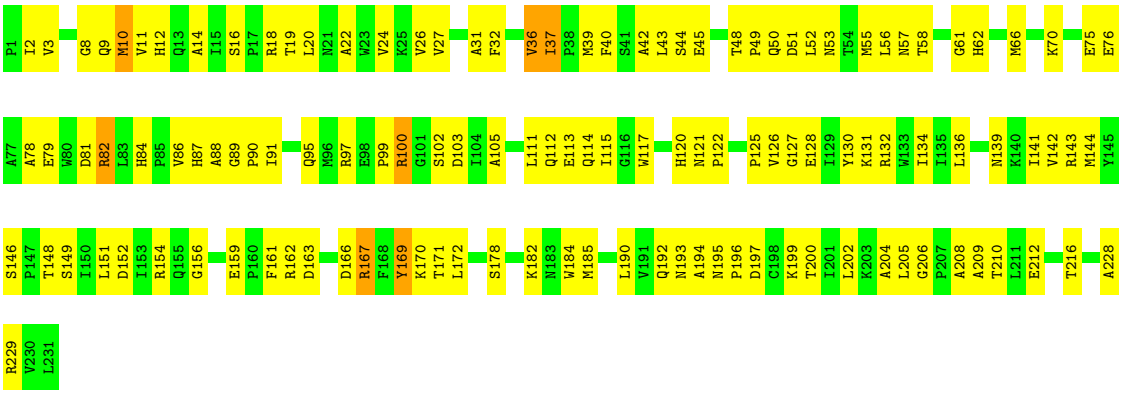
Chain kc:



• Molecule 1: capsid protein

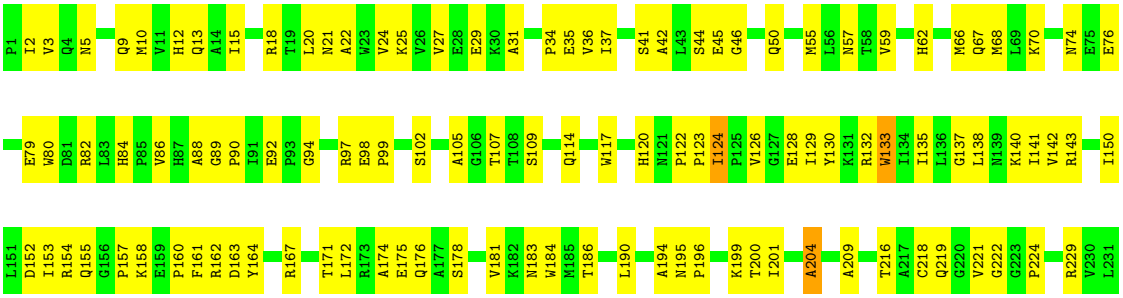
Chain kd:





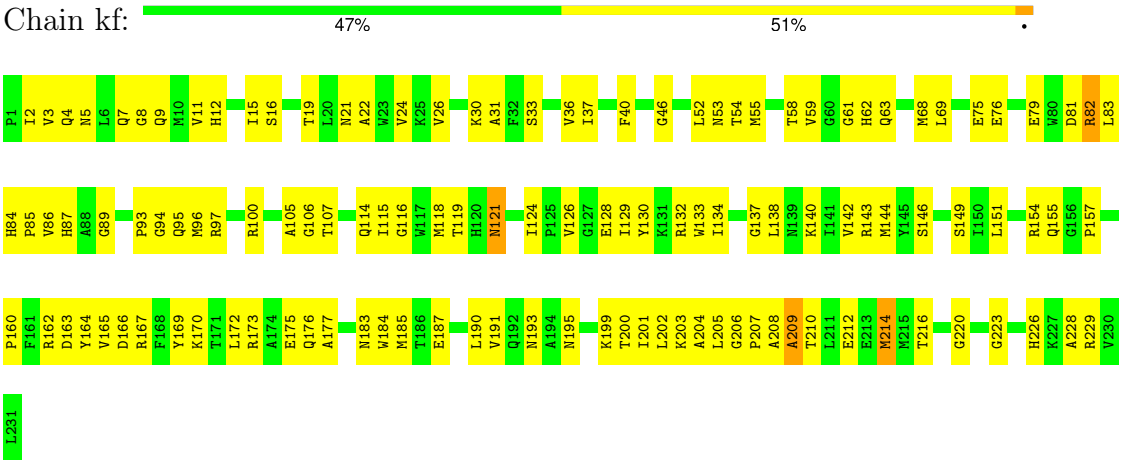
• Molecule 1: capsid protein

Chain ke:



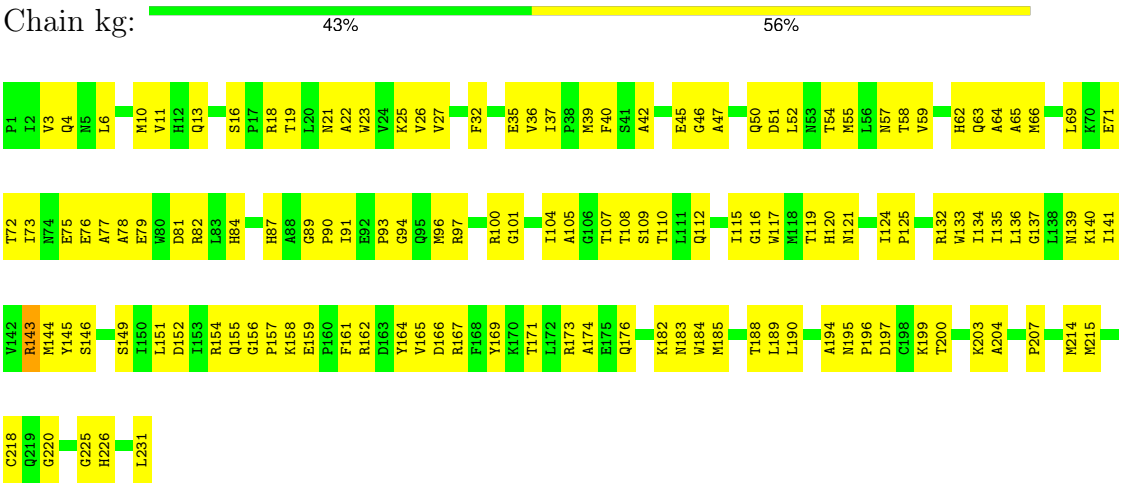
• Molecule 1: capsid protein

Chain kf:



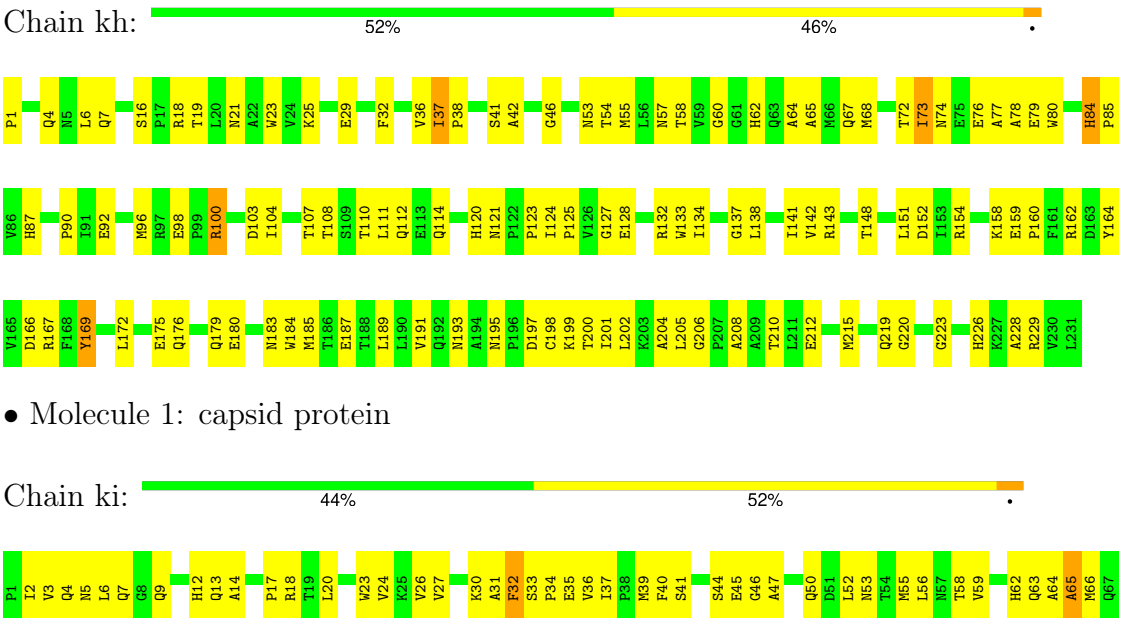
• Molecule 1: capsid protein

Chain kg:



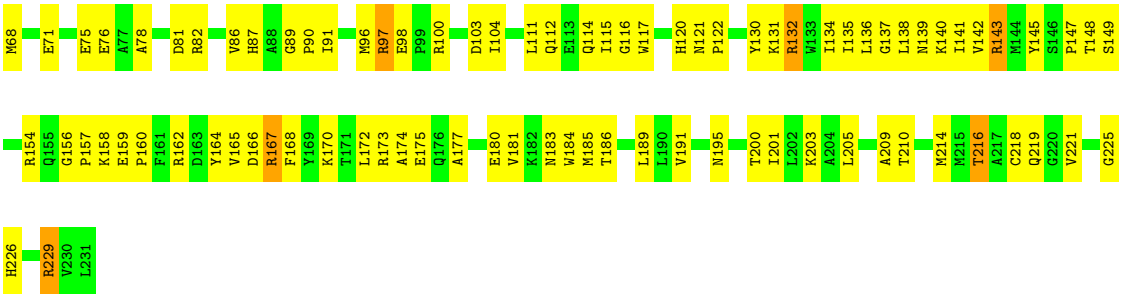
• Molecule 1: capsid protein

Chain kh:



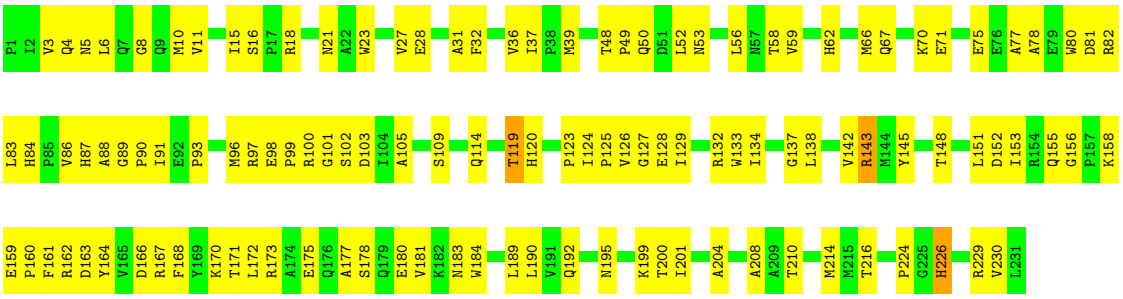
• Molecule 1: capsid protein

Chain ki:



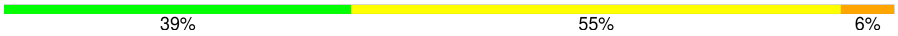
• Molecule 1: capsid protein

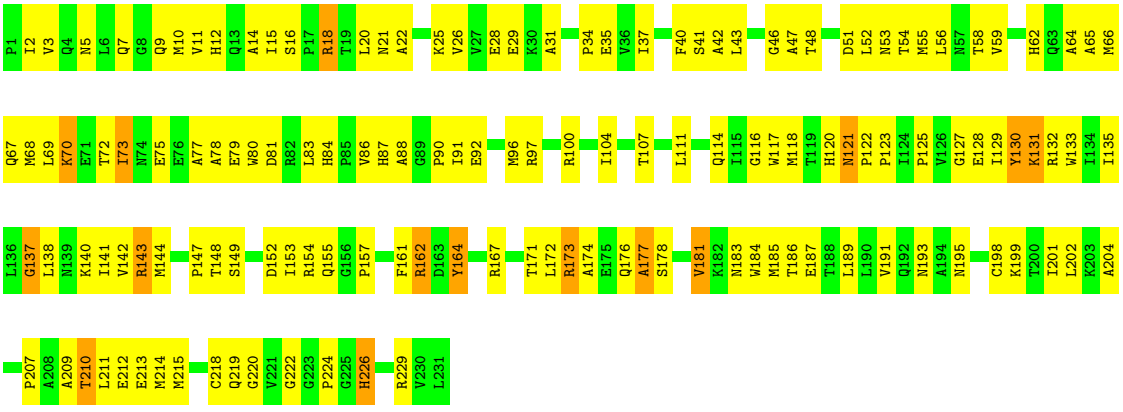
Chain kj:



• Molecule 1: capsid protein

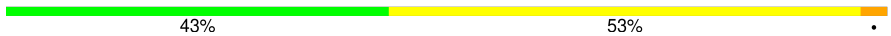
Chain 21:

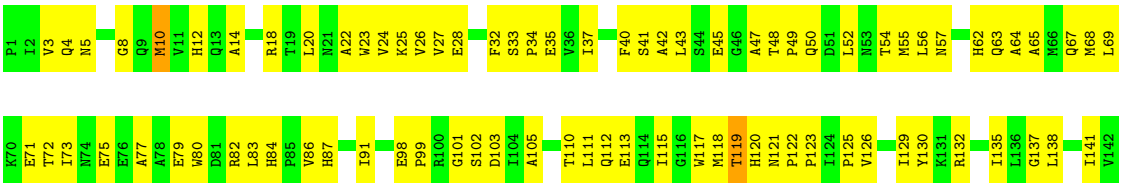


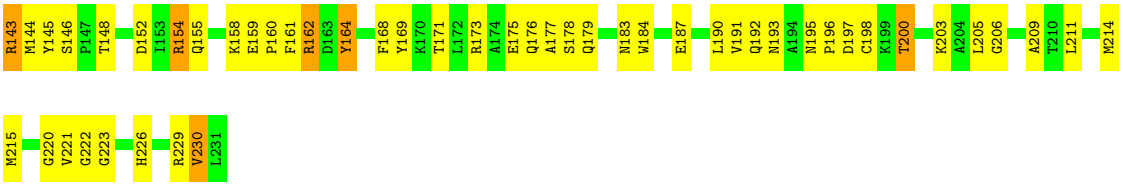


• Molecule 1: capsid protein

Chain kk:

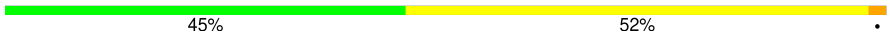


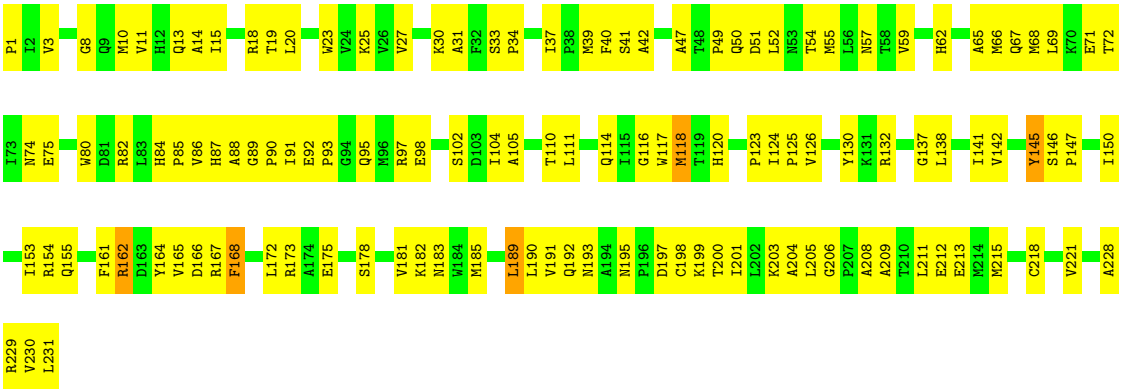




• Molecule 1: capsid protein

Chain kl:



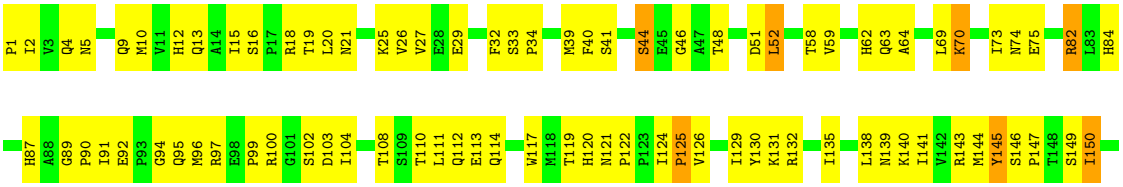


• Molecule 1: capsid protein

Chain km:

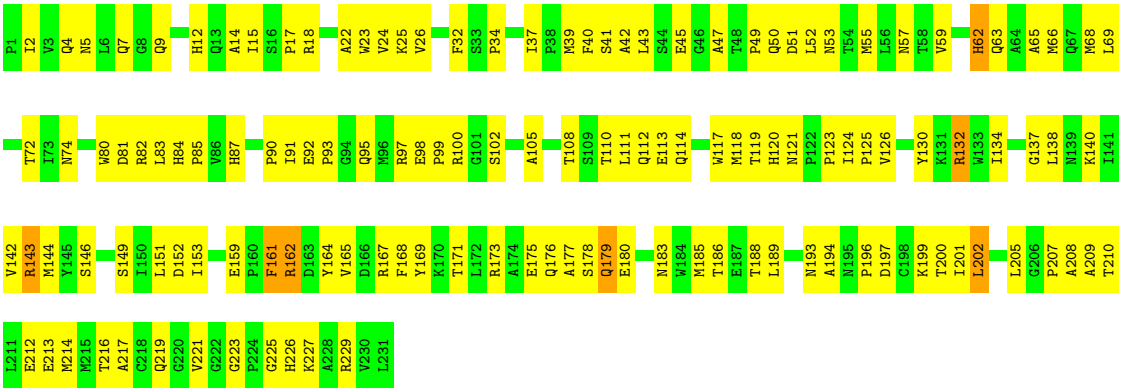
• Molecule 1: capsid protein

Chain kn:



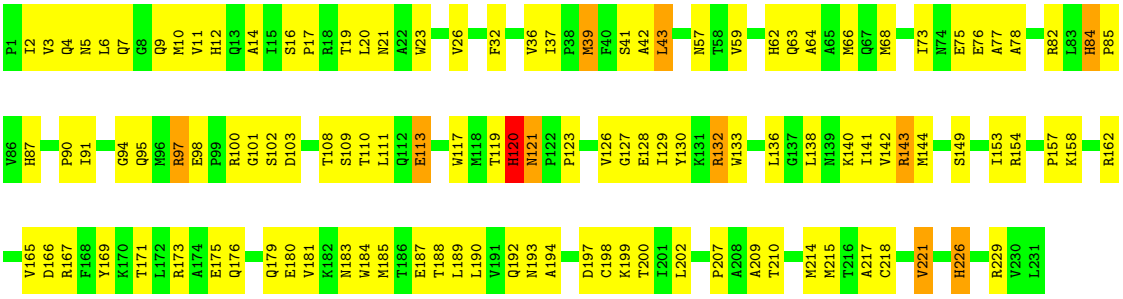
• Molecule 1: capsid protein

Chain ko:



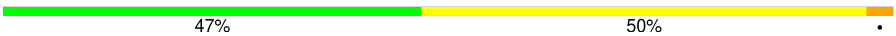
• Molecule 1: capsid protein

Chain kp:



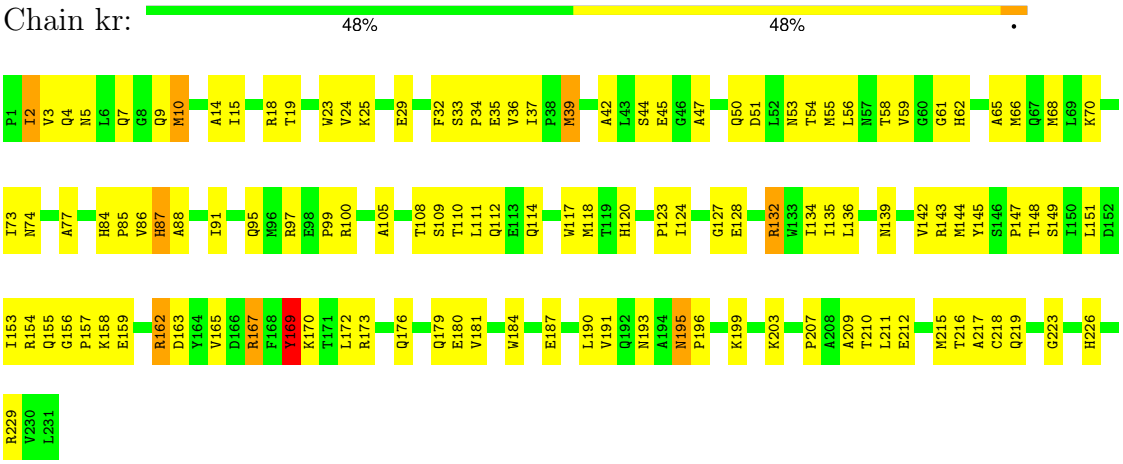
• Molecule 1: capsid protein

Chain kq:



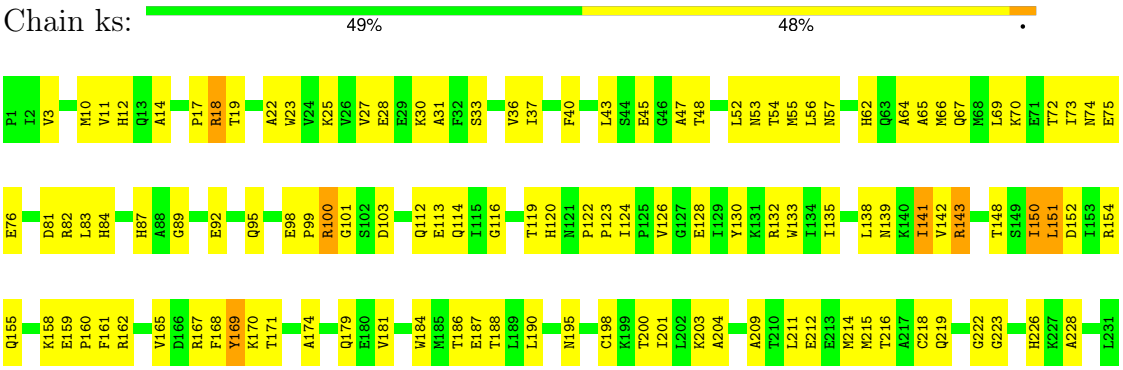
• Molecule 1: capsid protein

Chain kr:



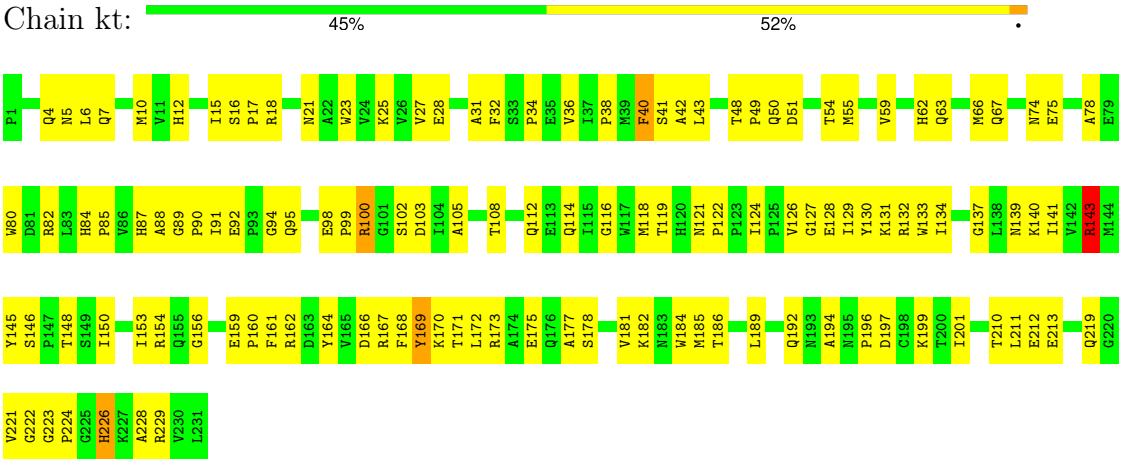
• Molecule 1: capsid protein

Chain ks:



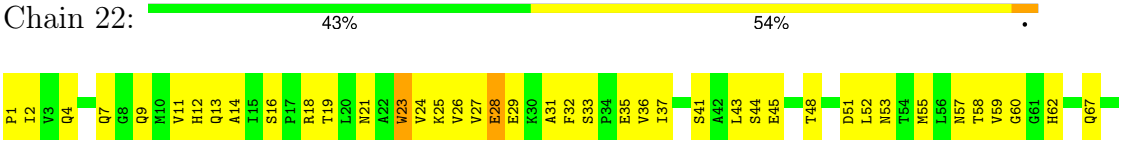
• Molecule 1: capsid protein

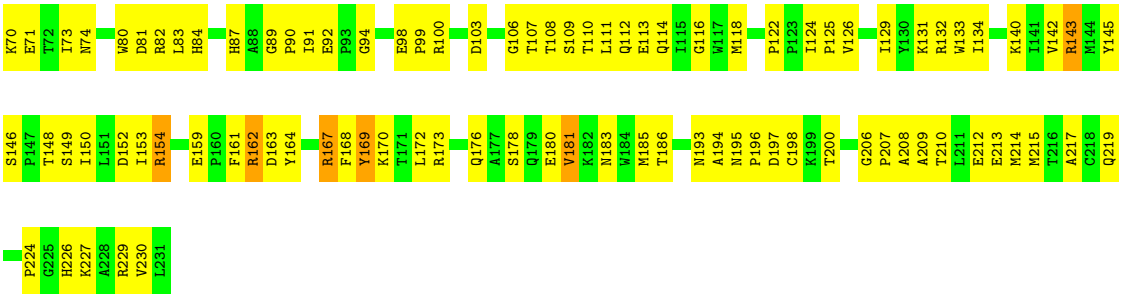
Chain kt:



• Molecule 1: capsid protein

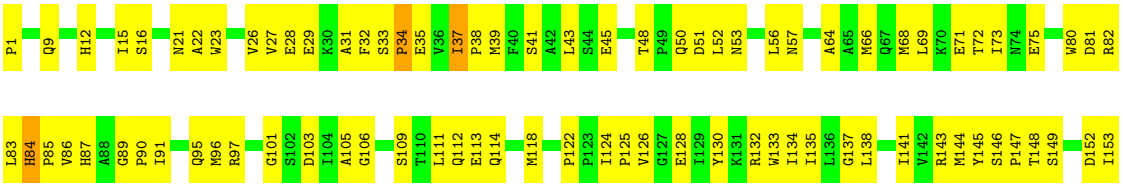
Chain 22:





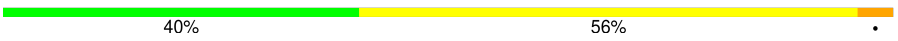
• Molecule 1: capsid protein

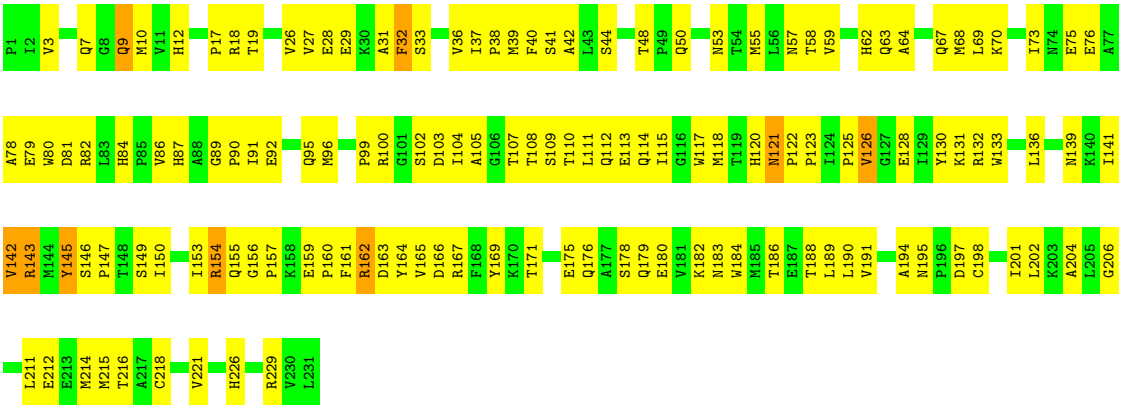
Chain ku:



• Molecule 1: capsid protein

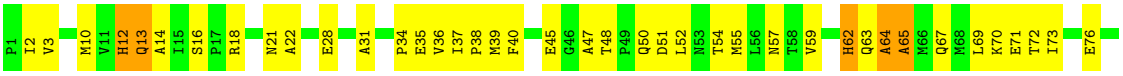
Chain kv:

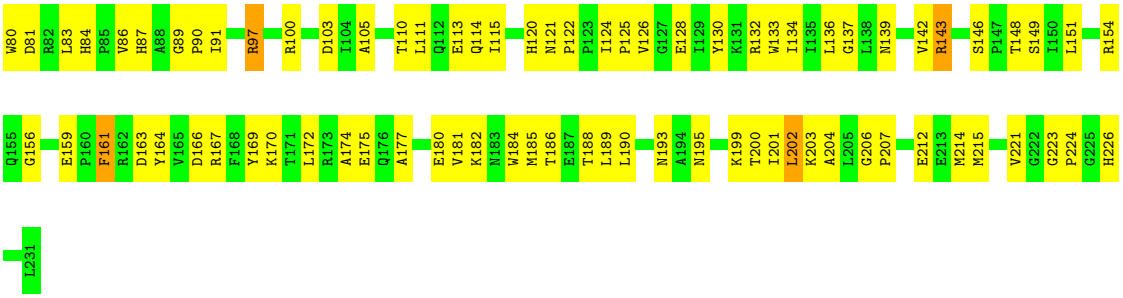




• Molecule 1: capsid protein

Chain kw:



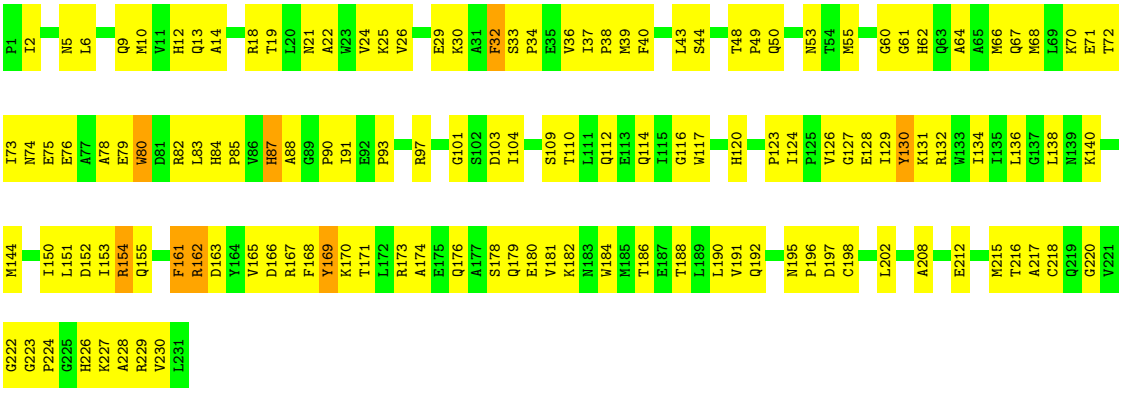


• Molecule 1: capsid protein

Chain kx:

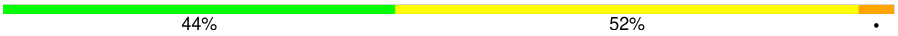
• Molecule 1: capsid protein

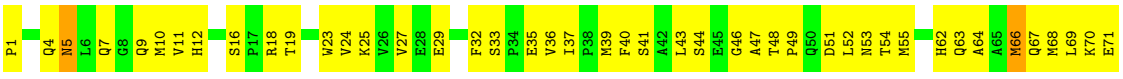
Chain ky:

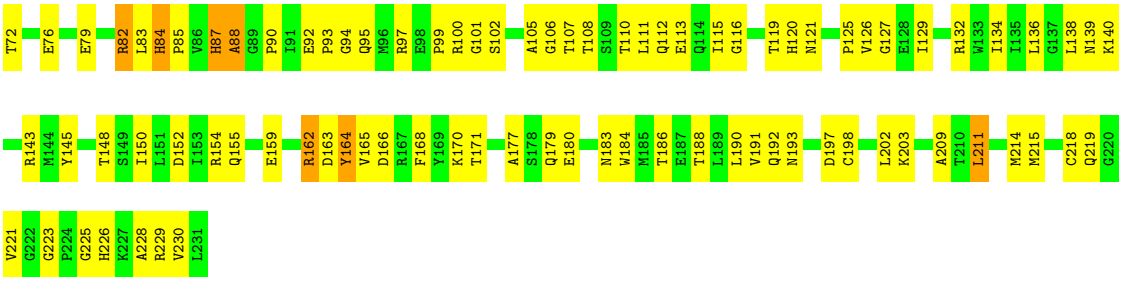


• Molecule 1: capsid protein

Chain kz:

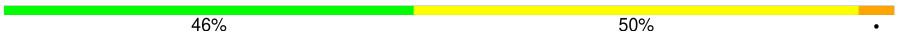


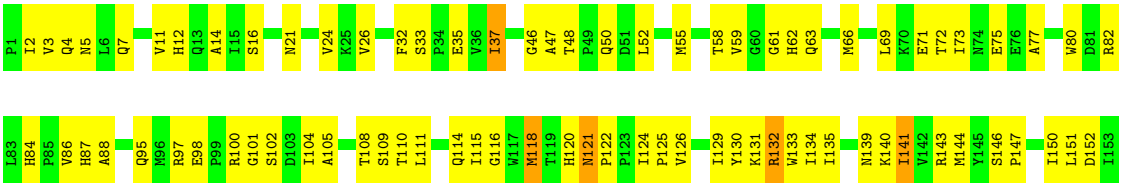




• Molecule 1: capsid protein

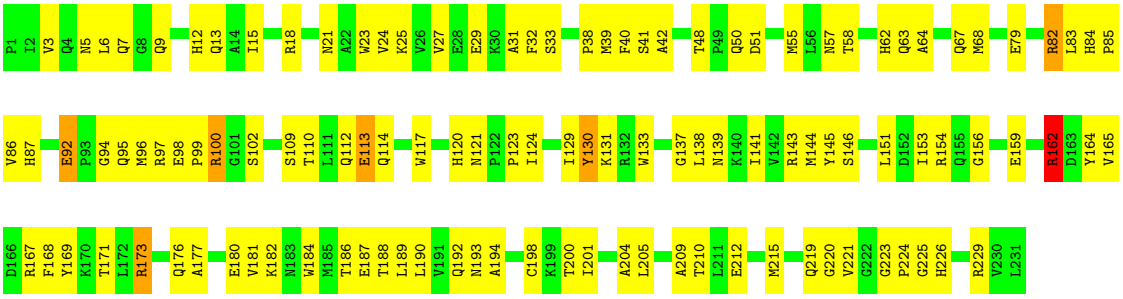
Chain kA:





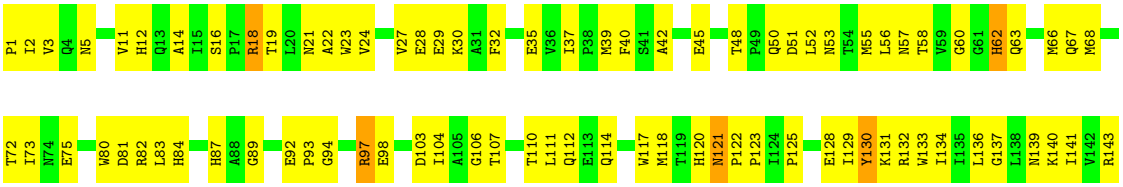
• Molecule 1: capsid protein

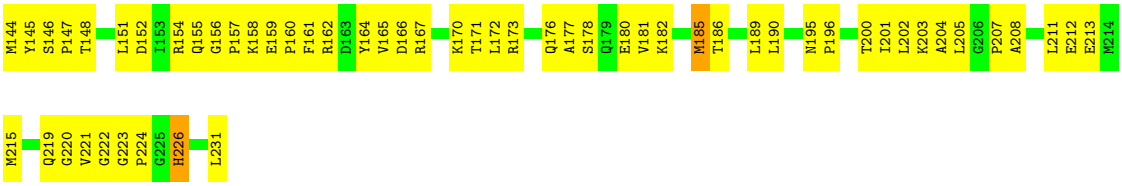
Chain kB:



• Molecule 1: capsid protein

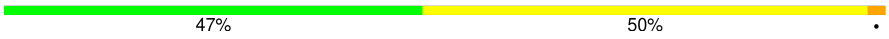
Chain kC:

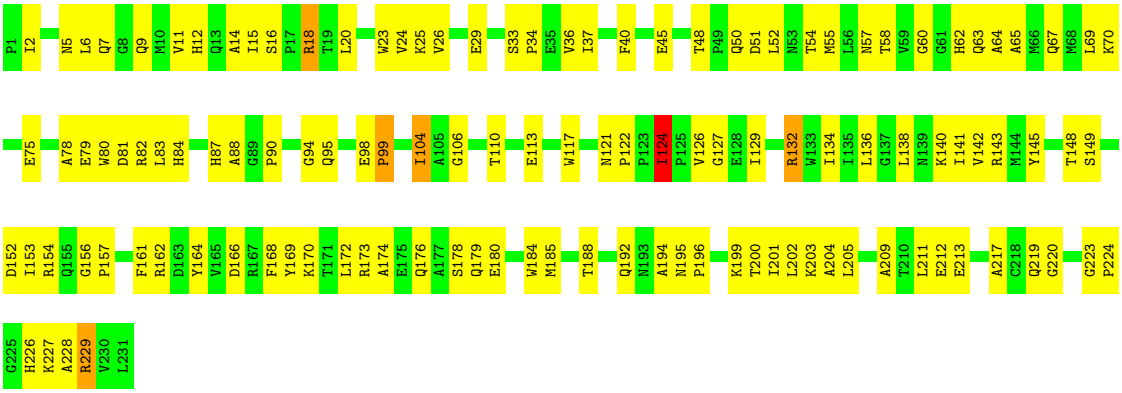




• Molecule 1: capsid protein

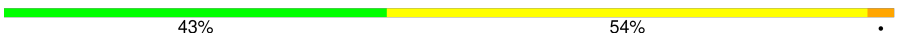
Chain kD:





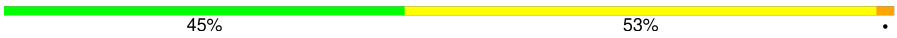
• Molecule 1: capsid protein

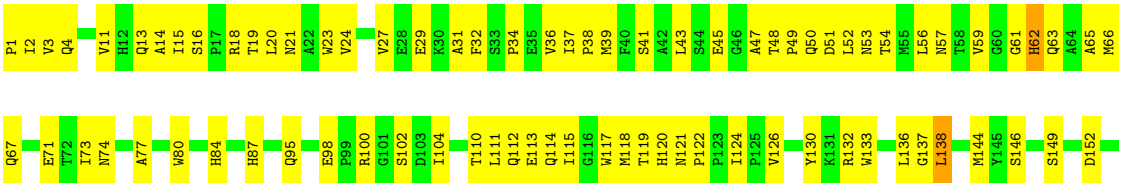
Chain 23:



• Molecule 1: capsid protein

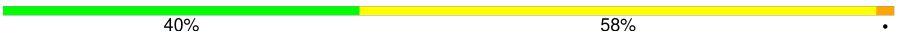
Chain kE:

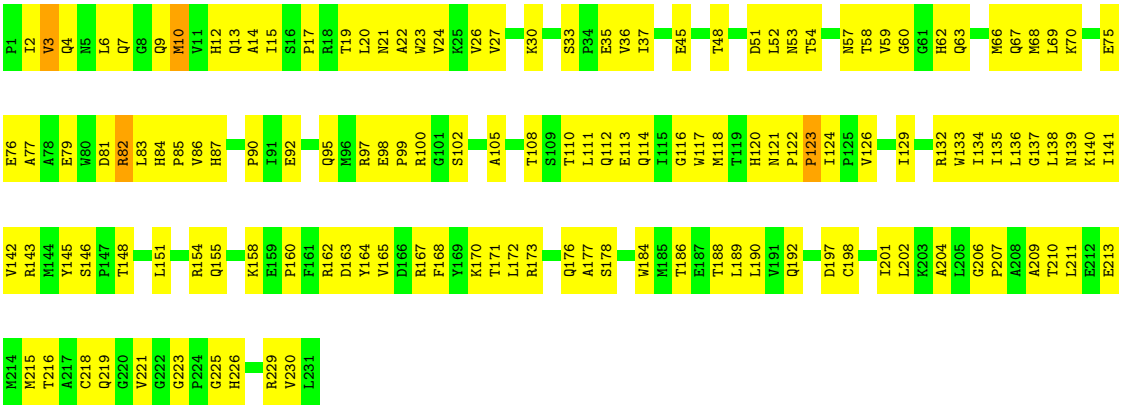




• Molecule 1: capsid protein

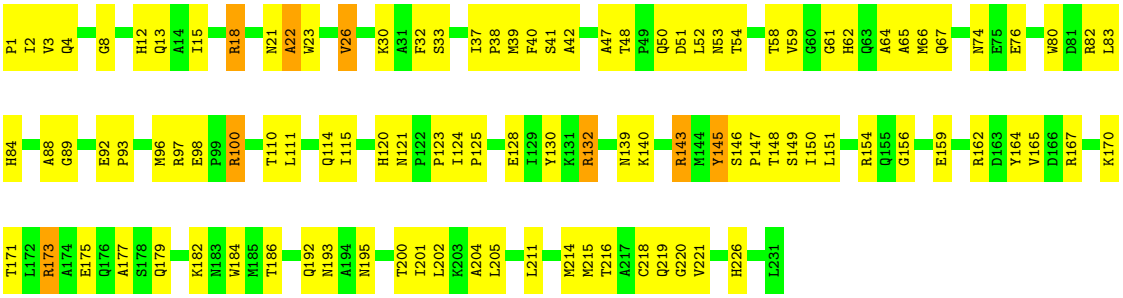
Chain kF:





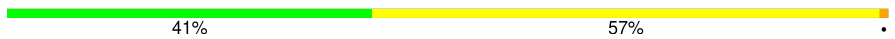
• Molecule 1: capsid protein

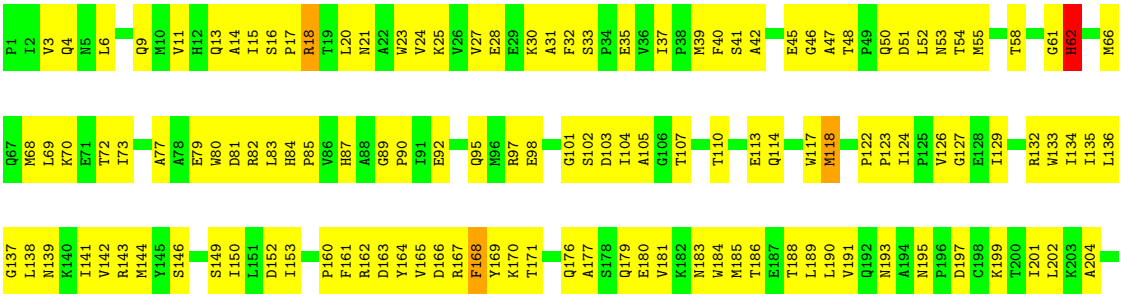
Chain kG:



• Molecule 1: capsid protein

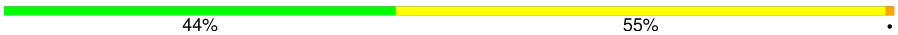
Chain kH:





• Molecule 1: capsid protein

Chain kI:

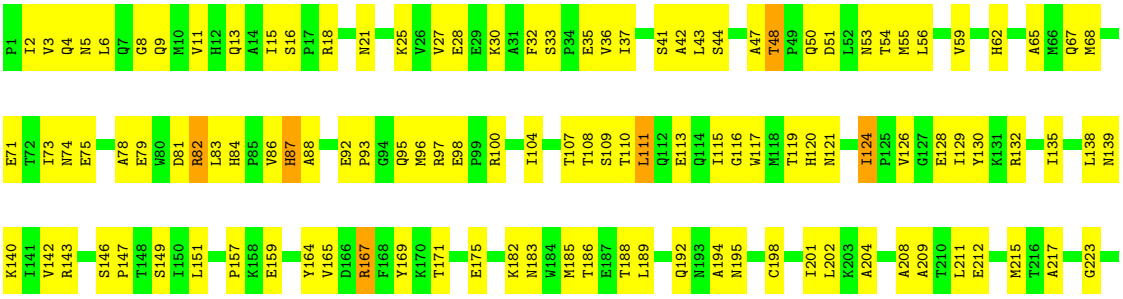


• Molecule 1: capsid protein

Chain kJ:

• Molecule 1: capsid protein

Chain kK:

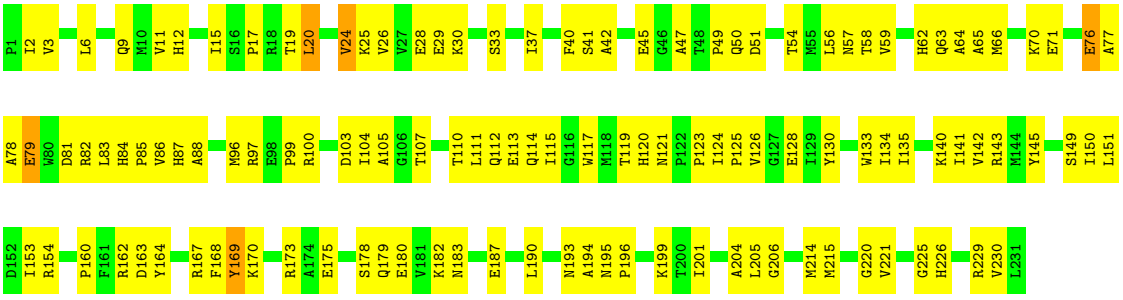


• Molecule 1: capsid protein

Chain kL:

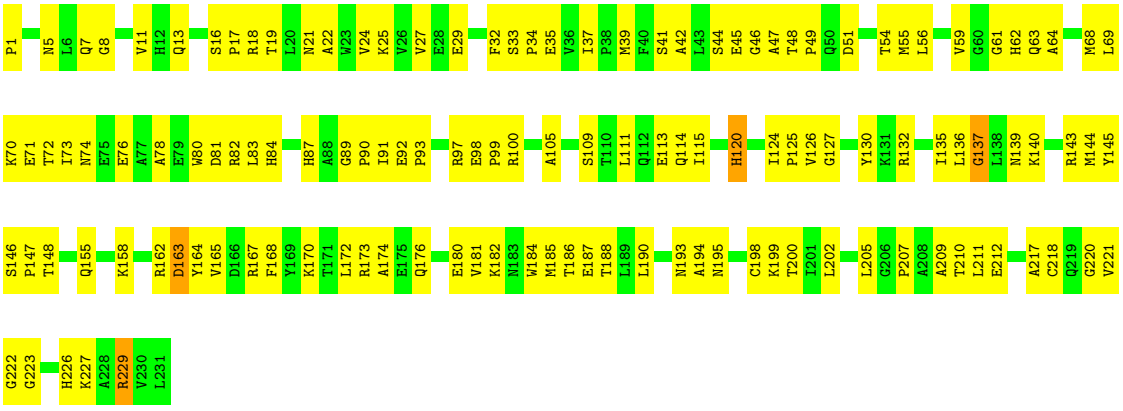
• Molecule 1: capsid protein

Chain kM:



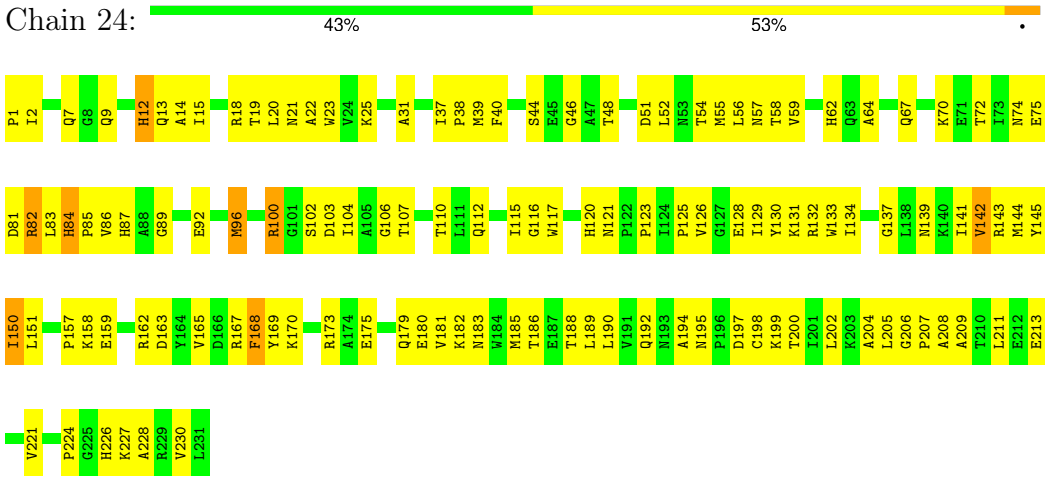
• Molecule 1: capsid protein

Chain kN:



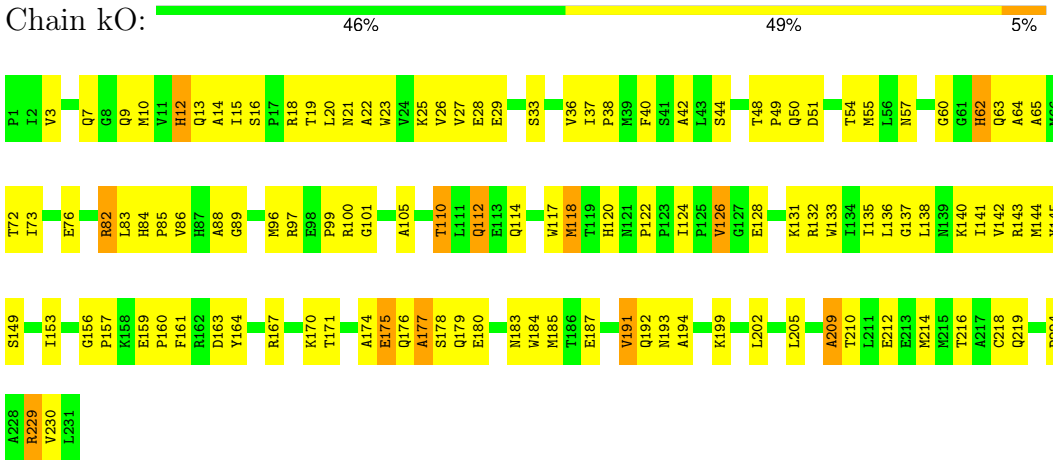
• Molecule 1: capsid protein

Chain 24:



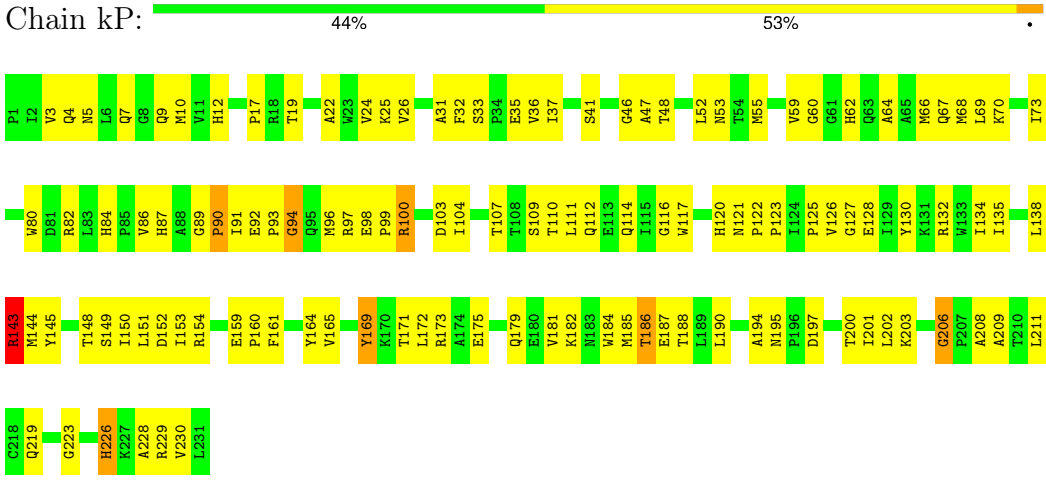
• Molecule 1: capsid protein

Chain kO:



• Molecule 1: capsid protein

Chain kP:

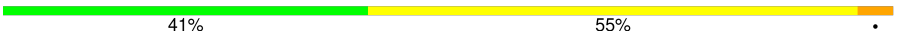


• Molecule 1: capsid protein

Chain kQ:

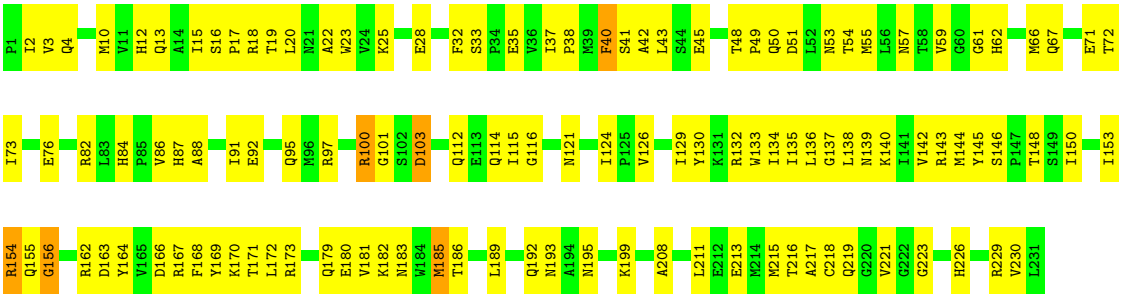
• Molecule 1: capsid protein

Chain kR:



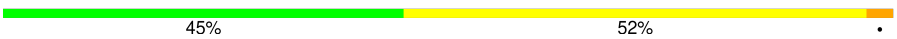
• Molecule 1: capsid protein

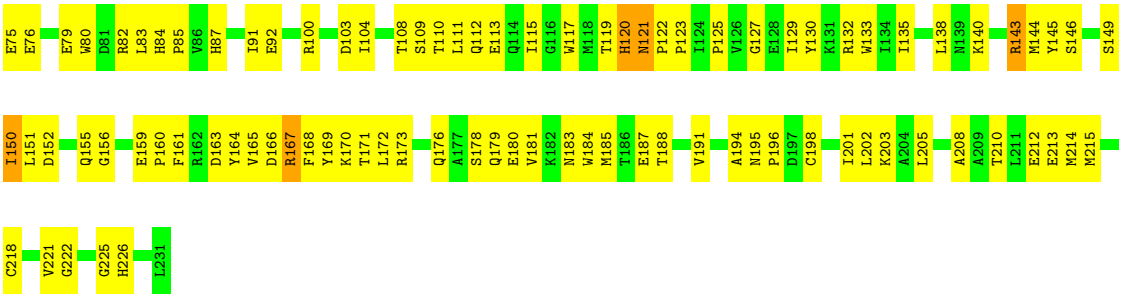
Chain kS:



• Molecule 1: capsid protein

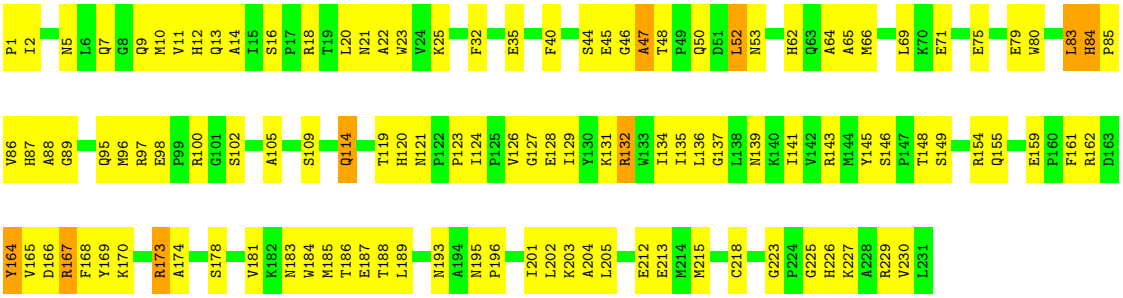
Chain kT:





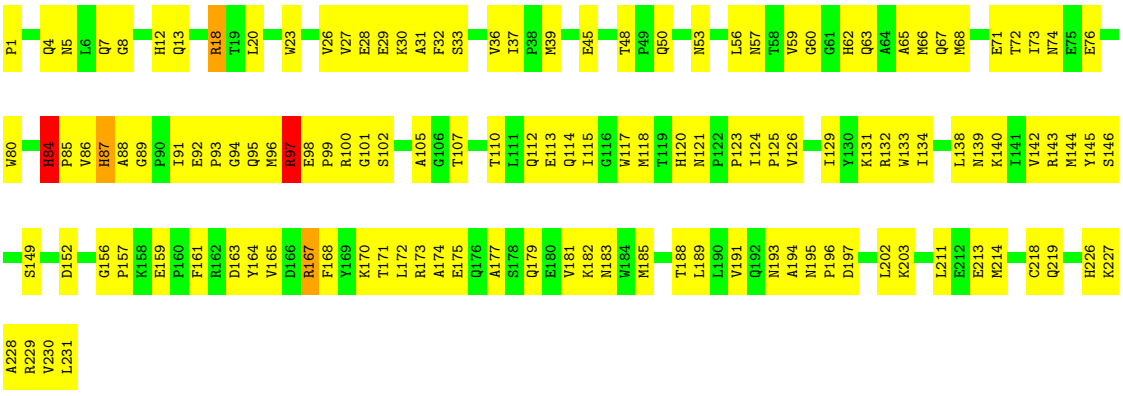
• Molecule 1: capsid protein

Chain kU:



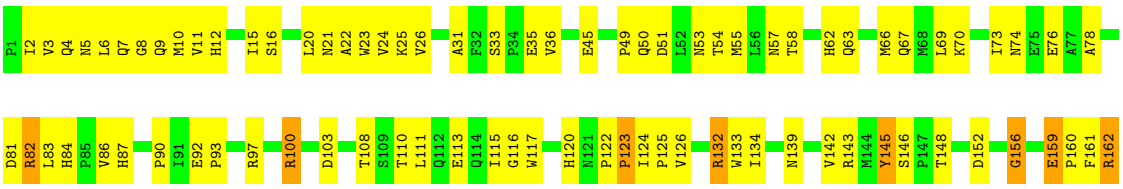
• Molecule 1: capsid protein

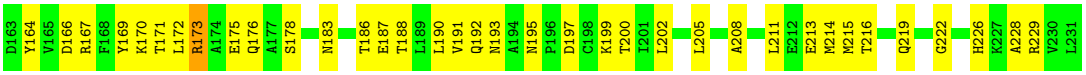
Chain kV:



• Molecule 1: capsid protein

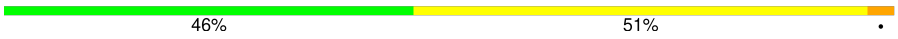
Chain kW:

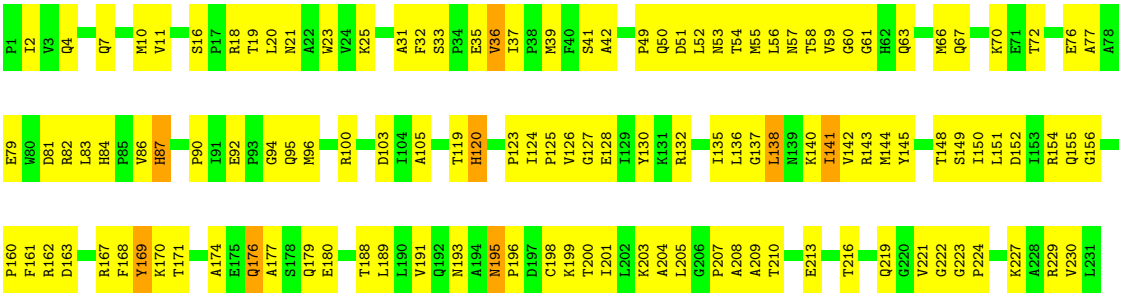




• Molecule 1: capsid protein

Chain kX:





• Molecule 1: capsid protein

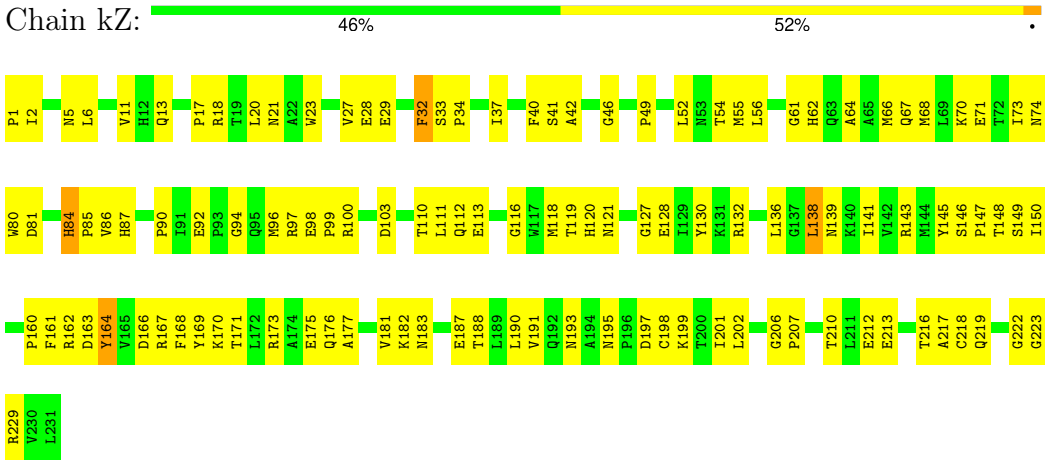
Chain 25:

• Molecule 1: capsid protein

Chain kY:

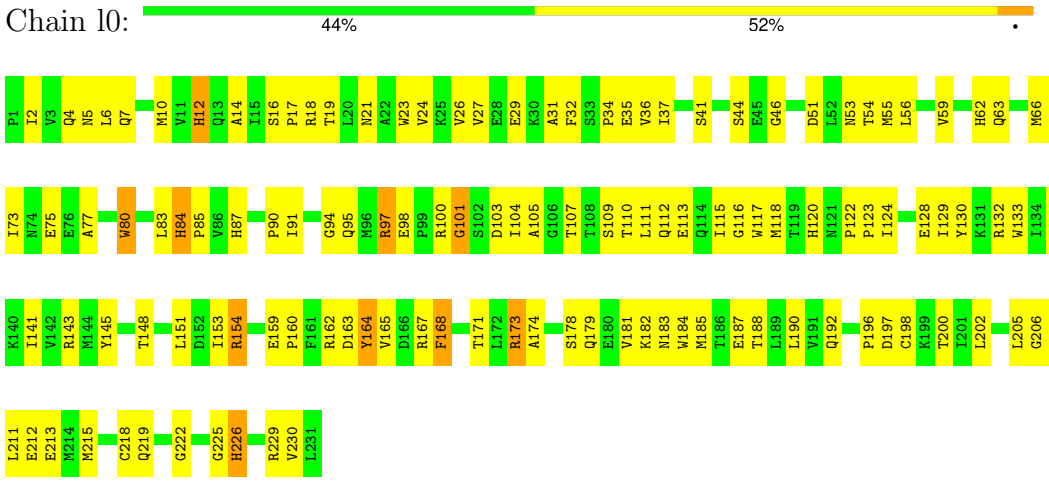
• Molecule 1: capsid protein

Chain kZ:



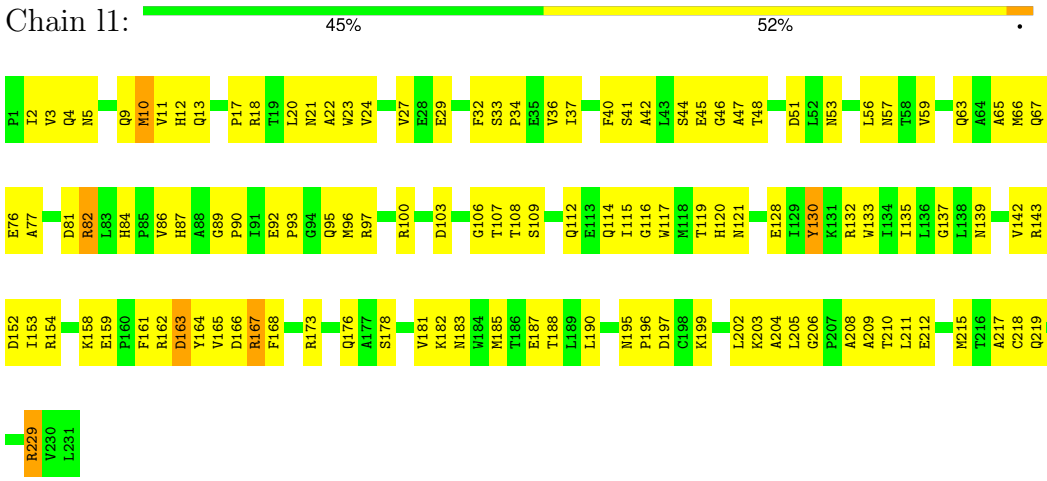
• Molecule 1: capsid protein

Chain l0:



• Molecule 1: capsid protein

Chain l1:

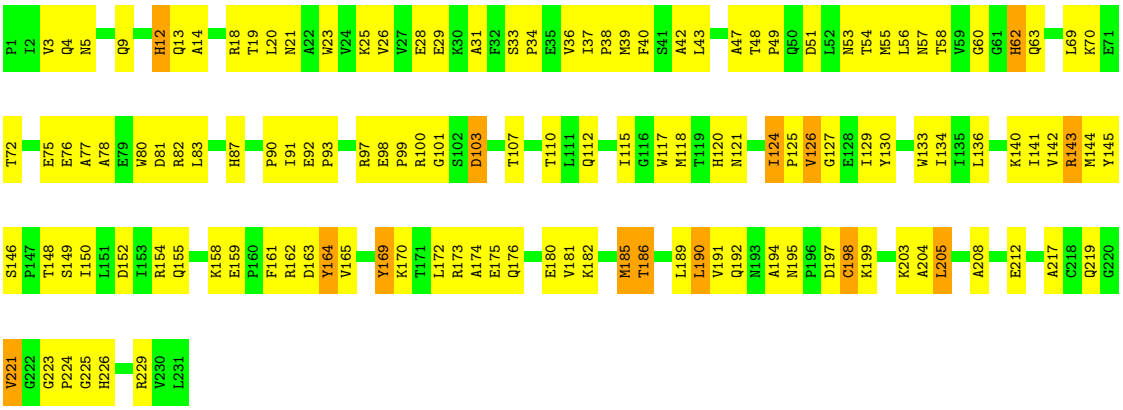


• Molecule 1: capsid protein

Chain l2:

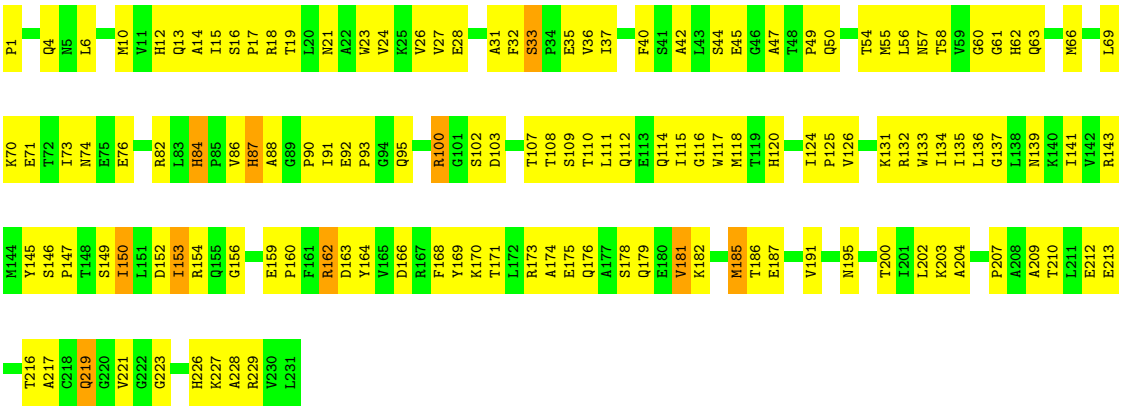
• Molecule 1: capsid protein

Chain l3:



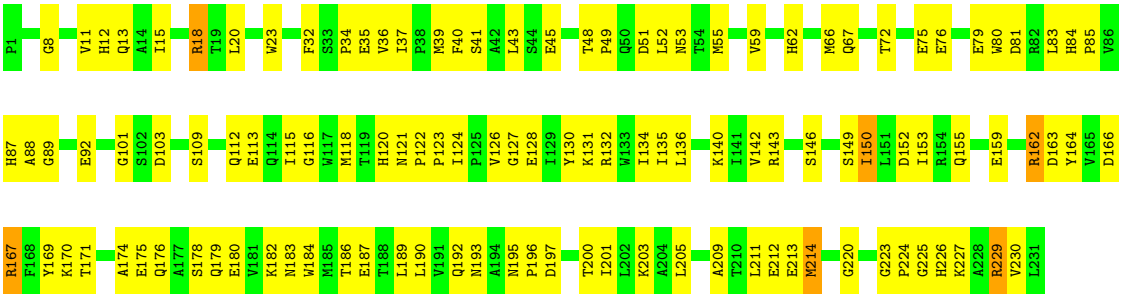
• Molecule 1: capsid protein

Chain l4:



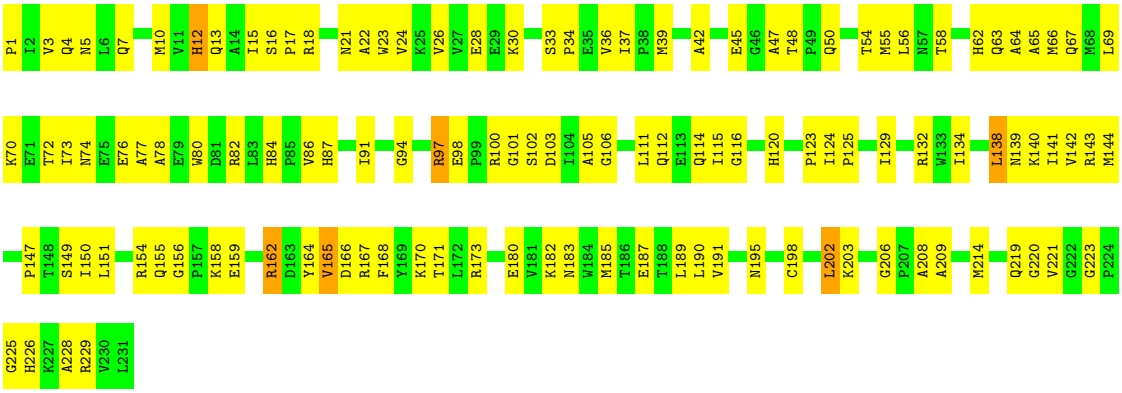
• Molecule 1: capsid protein

Chain l5:



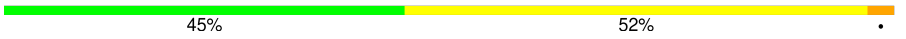
• Molecule 1: capsid protein

Chain l6:



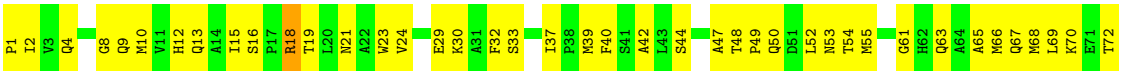
• Molecule 1: capsid protein

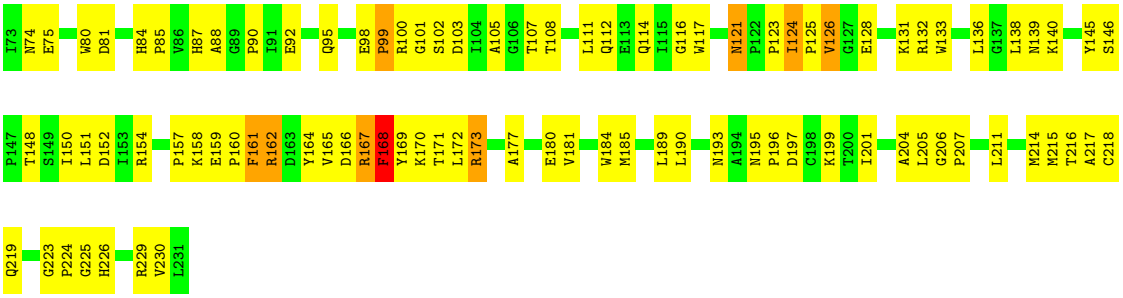
Chain l7:



• Molecule 1: capsid protein

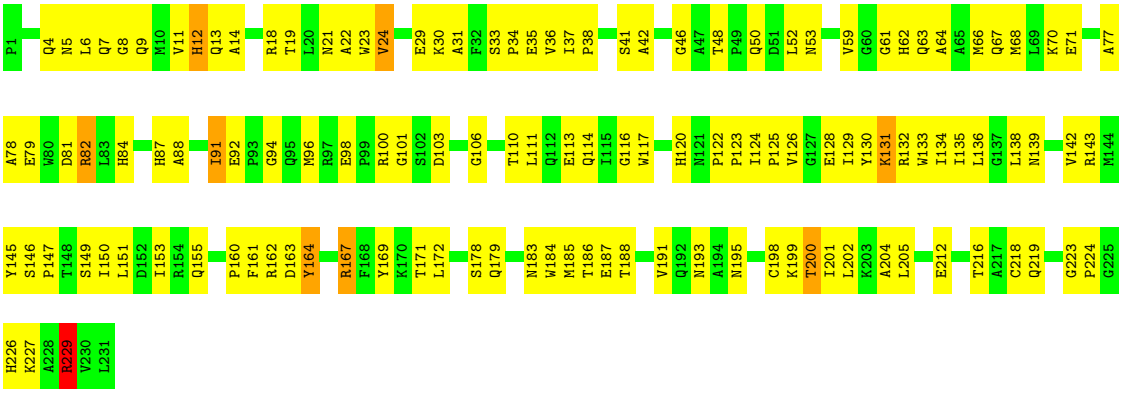
Chain 26:





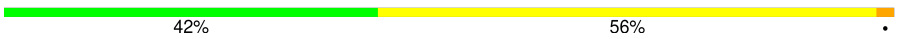
• Molecule 1: capsid protein

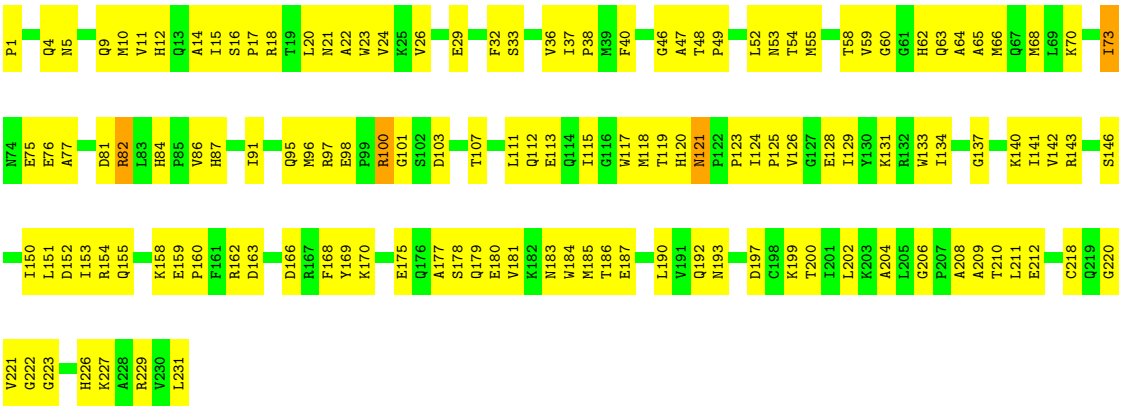
Chain l8:



• Molecule 1: capsid protein

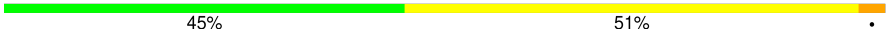
Chain l9:

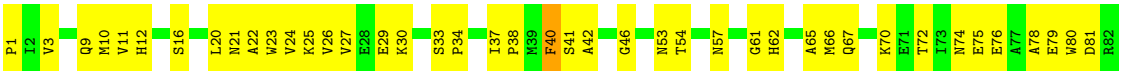




• Molecule 1: capsid protein

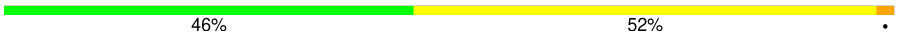
Chain la:

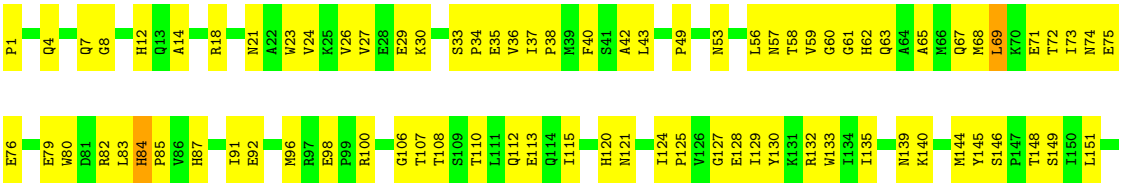




• Molecule 1: capsid protein

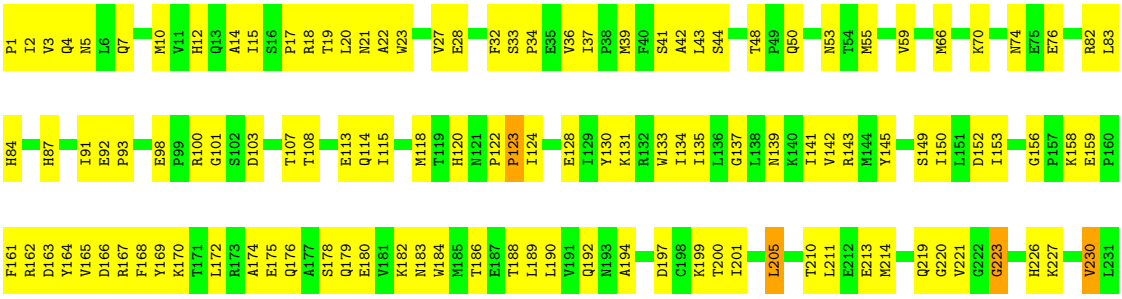
Chain lb:





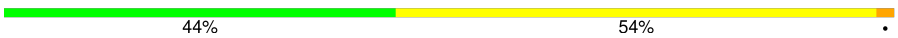
• Molecule 1: capsid protein

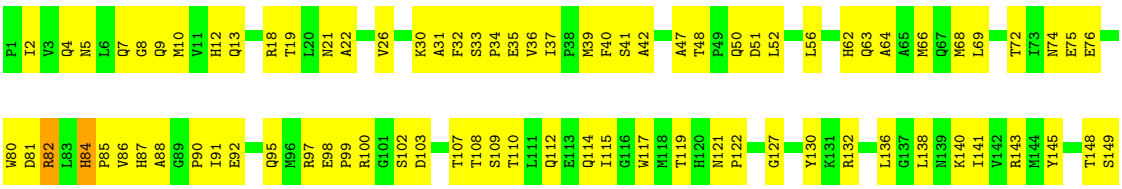
Chain lc:

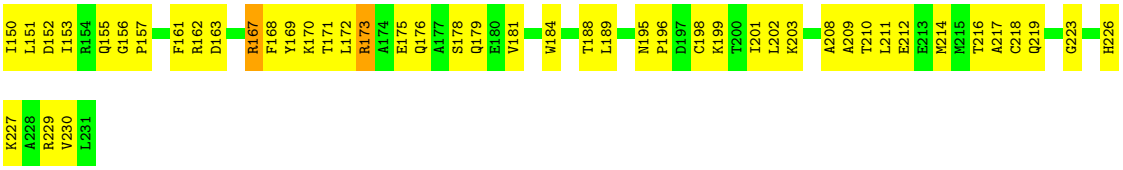


• Molecule 1: capsid protein

Chain ld:

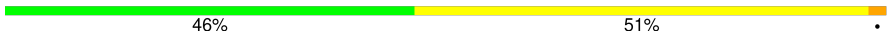


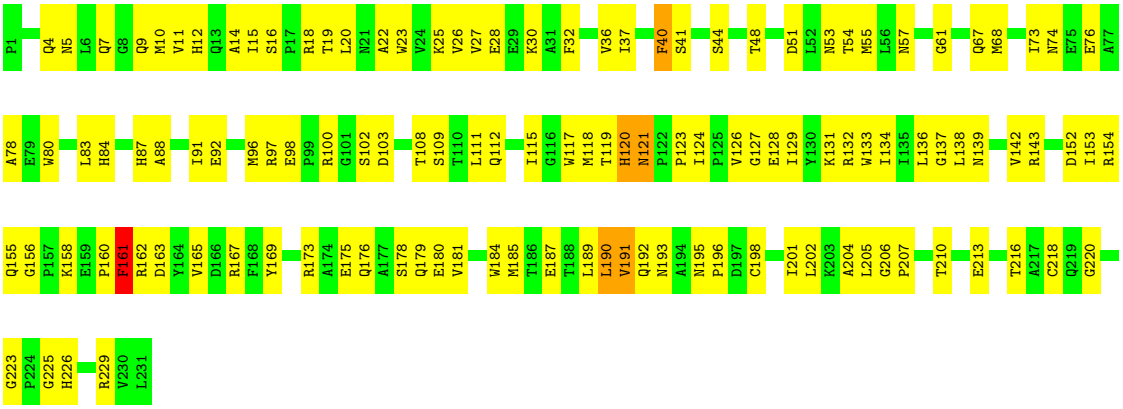




• Molecule 1: capsid protein

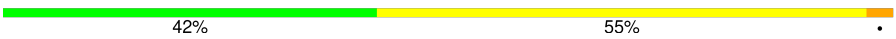
Chain le:

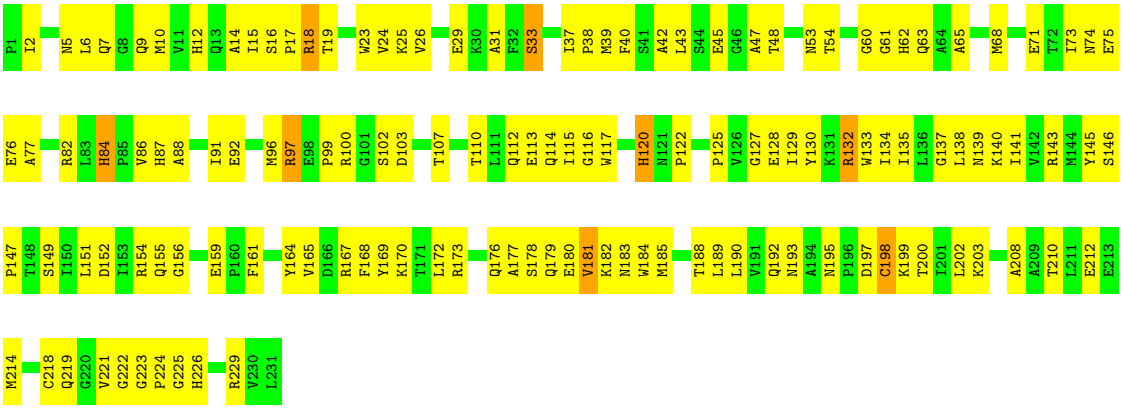




• Molecule 1: capsid protein

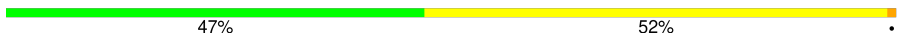
Chain lf:

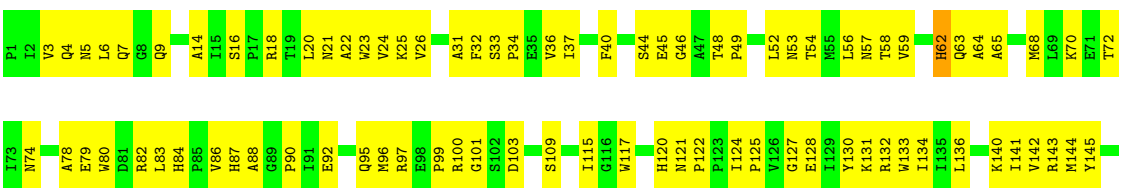


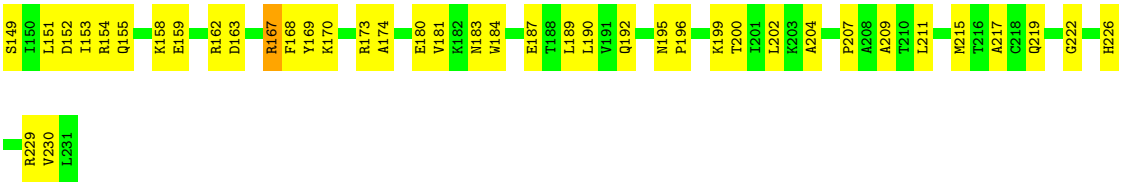


• Molecule 1: capsid protein

Chain lg:

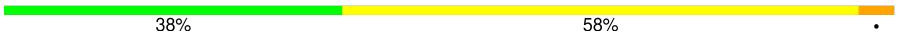


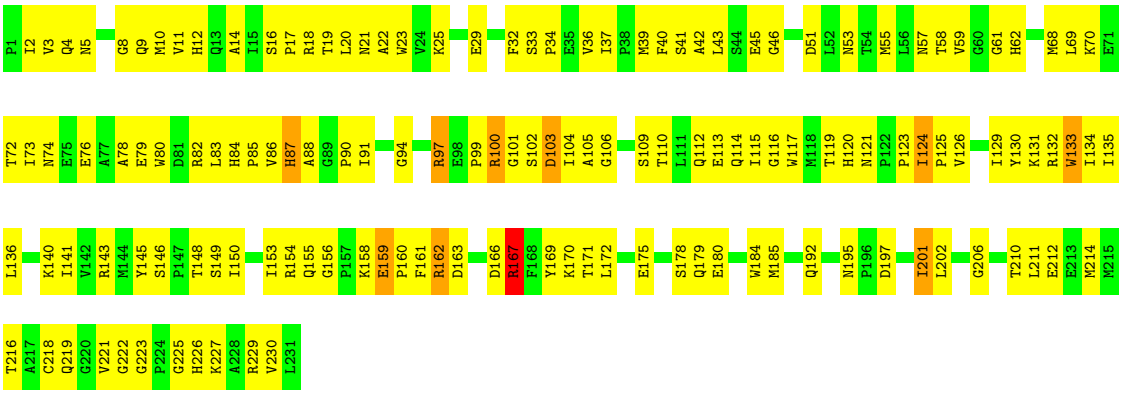




• Molecule 1: capsid protein

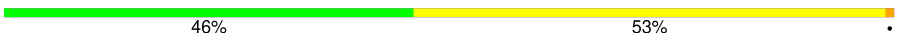
Chain lh:





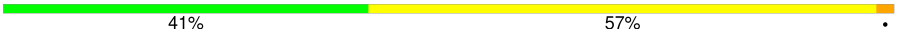
• Molecule 1: capsid protein

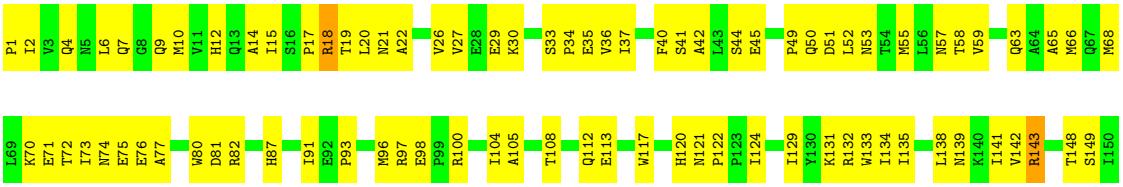
Chain 27:



• Molecule 1: capsid protein

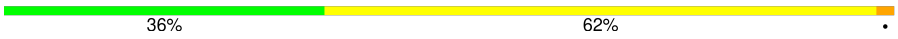
Chain li:

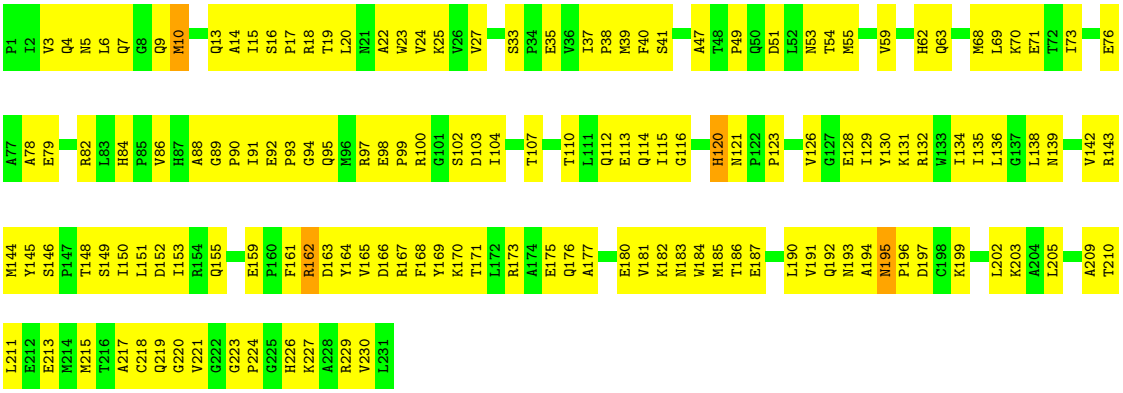




• Molecule 1: capsid protein

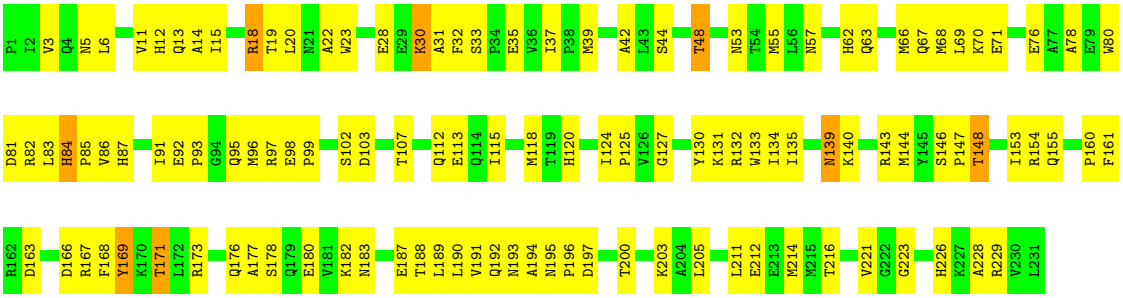
Chain lj:





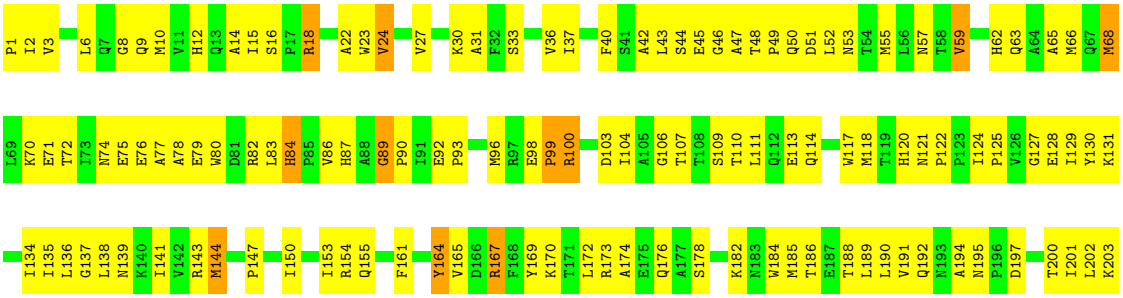
• Molecule 1: capsid protein

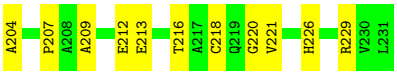
Chain lk:



• Molecule 1: capsid protein

Chain ll:



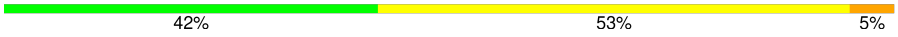


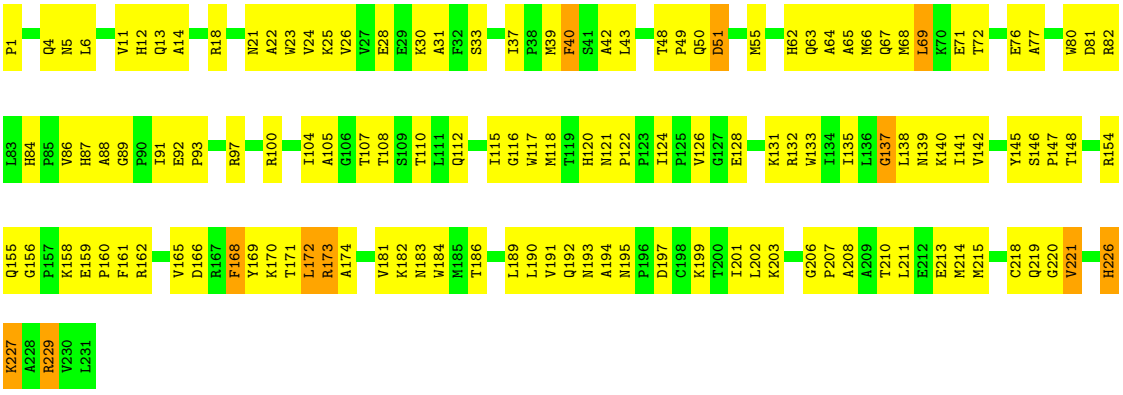
• Molecule 1: capsid protein

Chain lm:

• Molecule 1: capsid protein

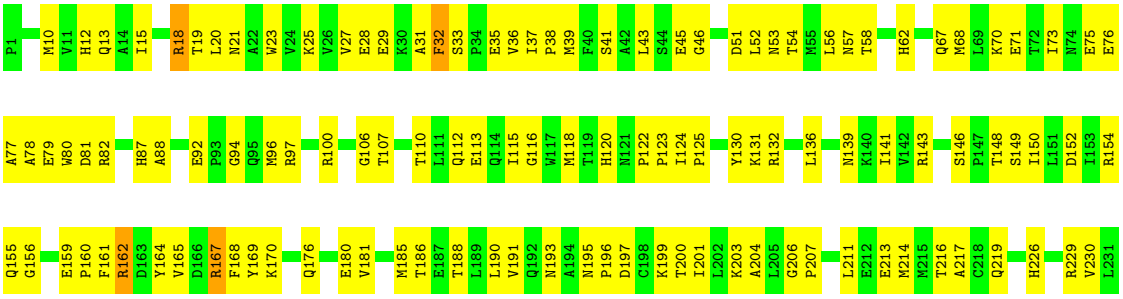
Chain ln:





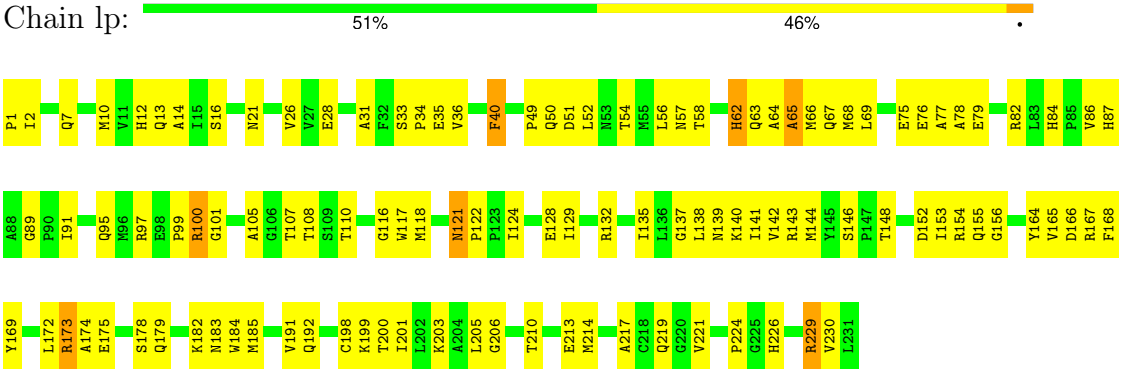
• Molecule 1: capsid protein

Chain lo:



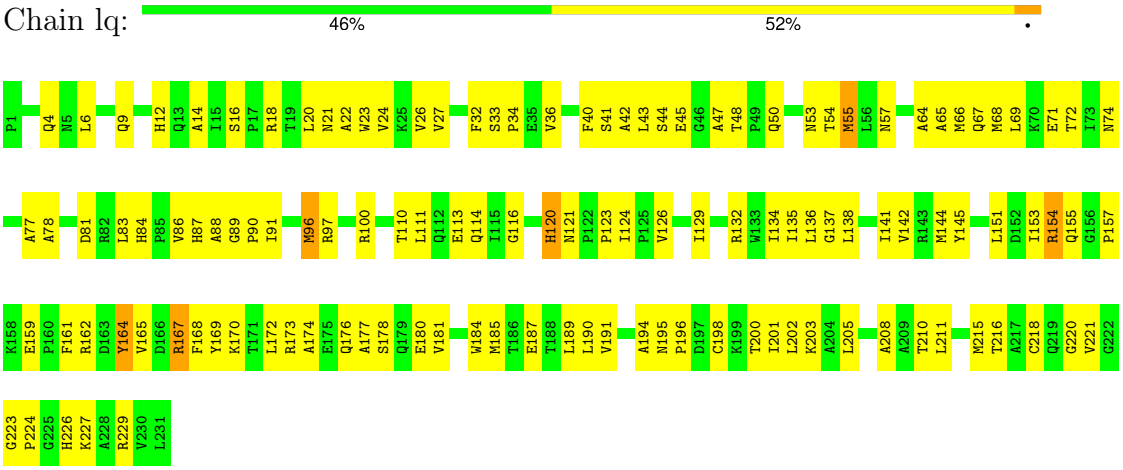
• Molecule 1: capsid protein

Chain lp:



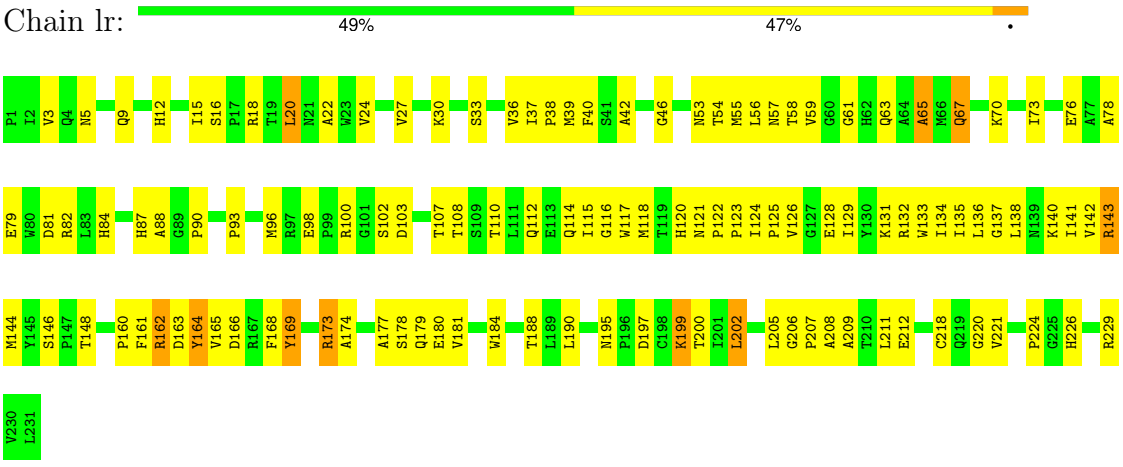
• Molecule 1: capsid protein

Chain lq:



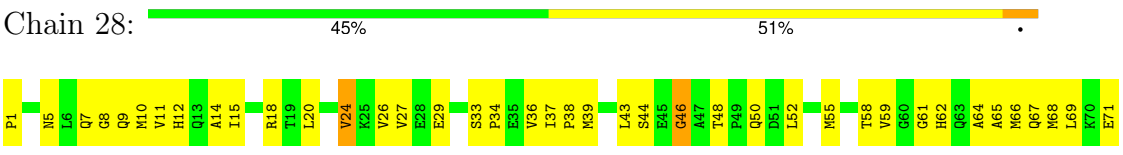
• Molecule 1: capsid protein

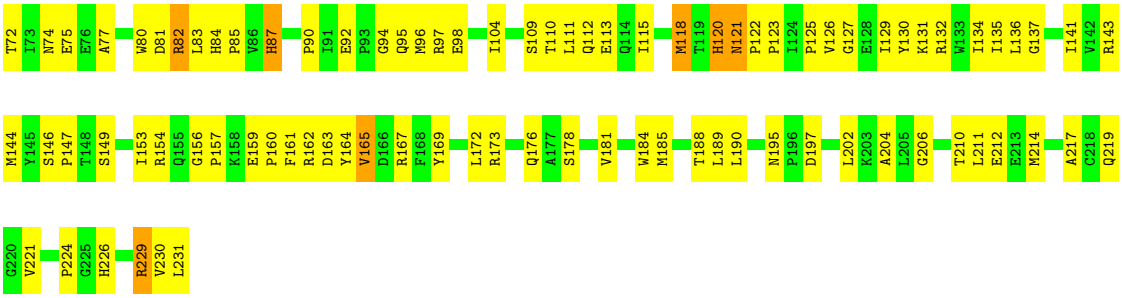
Chain lr:



• Molecule 1: capsid protein

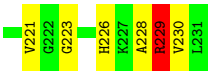
Chain 28:





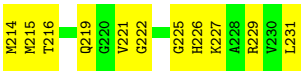
• Molecule 1: capsid protein

Chain ls:



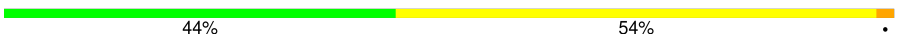
• Molecule 1: capsid protein

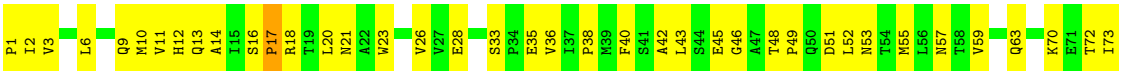
Chain lt:

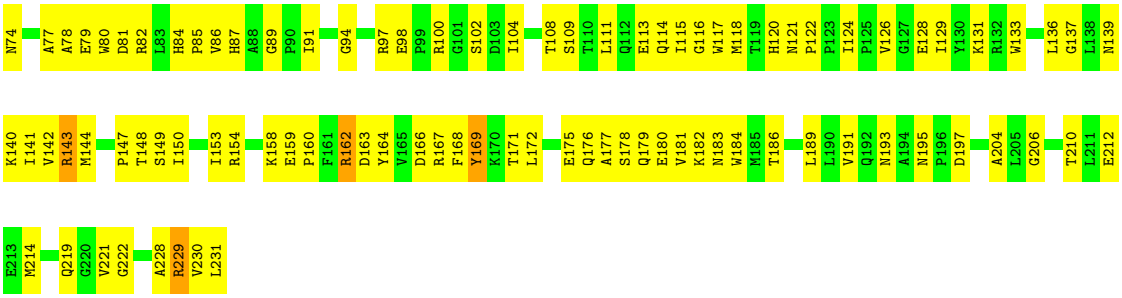


• Molecule 1: capsid protein

Chain lu:

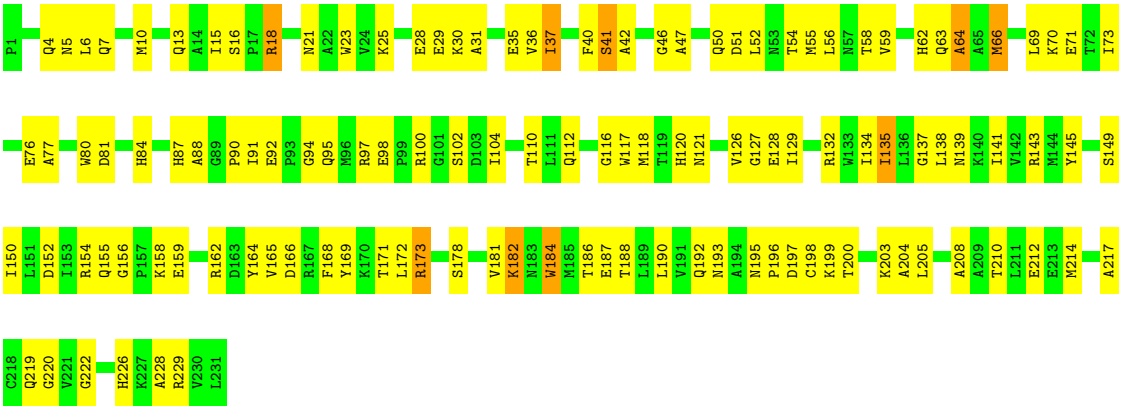






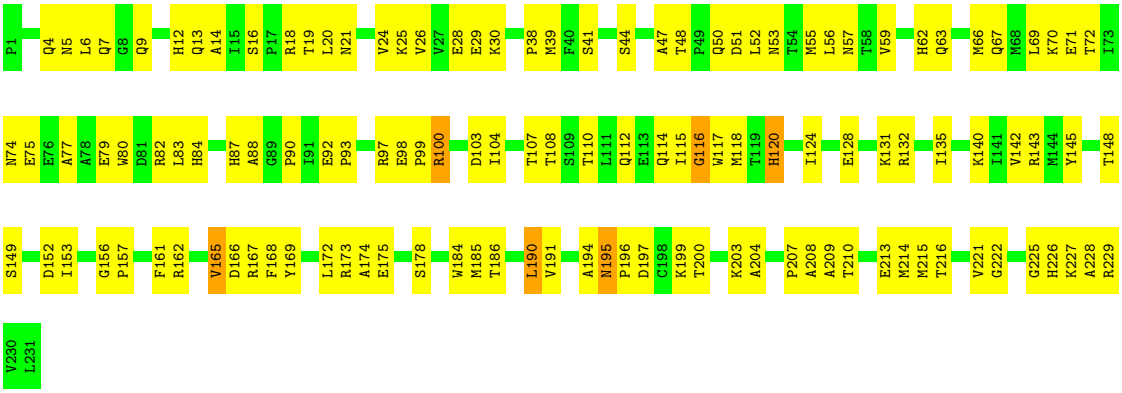
• Molecule 1: capsid protein

Chain lv:



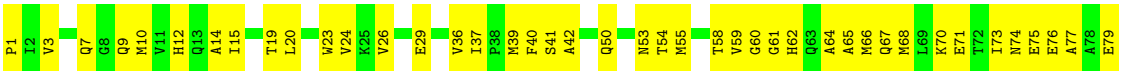
• Molecule 1: capsid protein

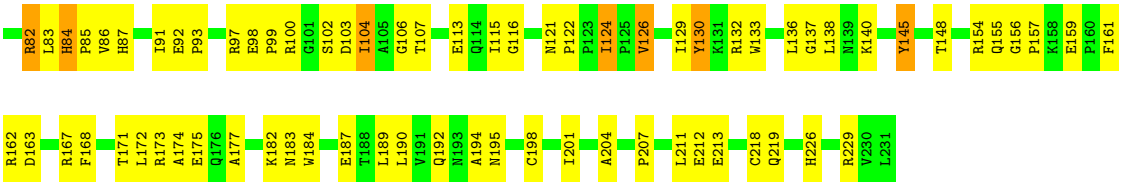
Chain lw:



• Molecule 1: capsid protein

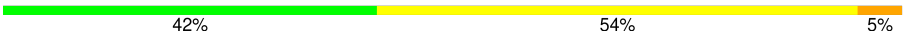
Chain lx:





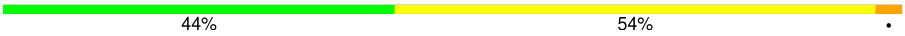
• Molecule 1: capsid protein

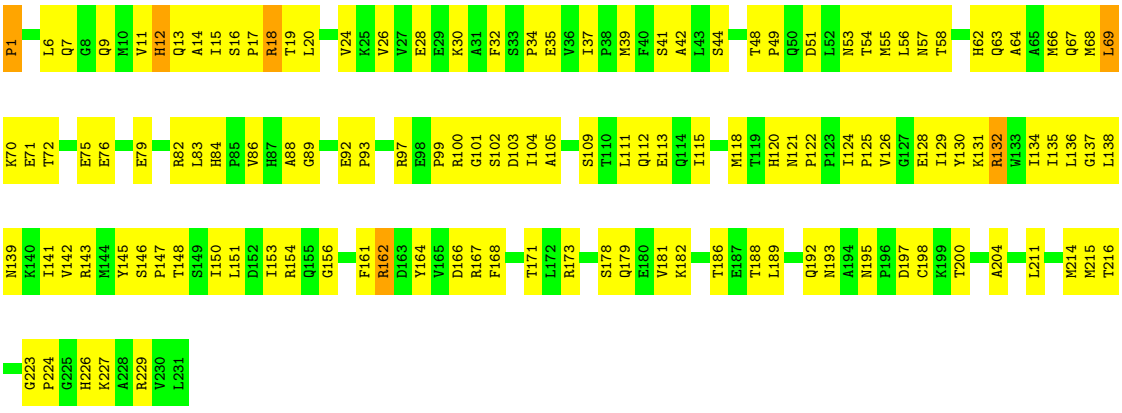
Chain ly:



• Molecule 1: capsid protein

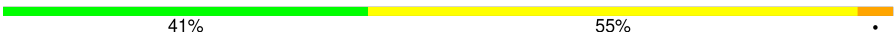
Chain lz:

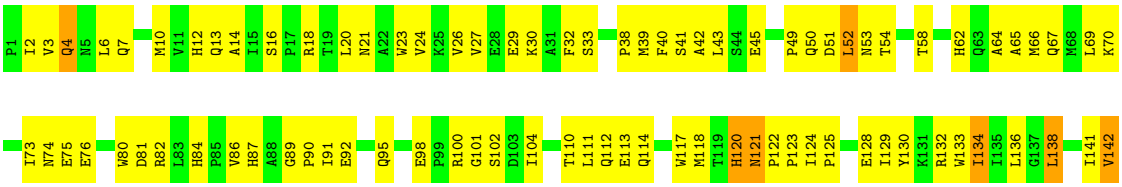




• Molecule 1: capsid protein

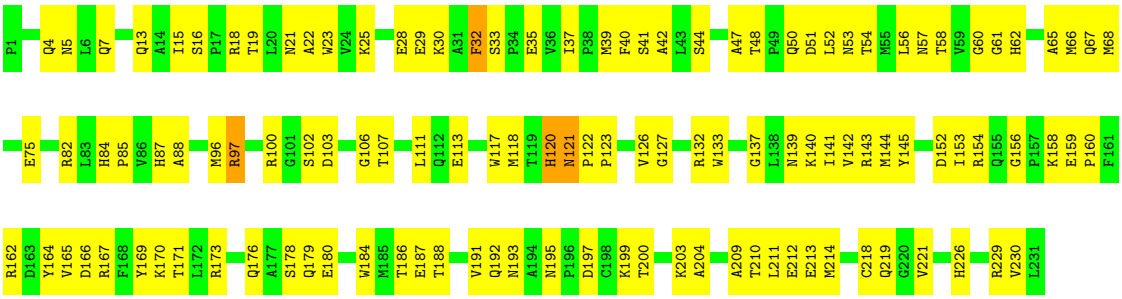
Chain lA:





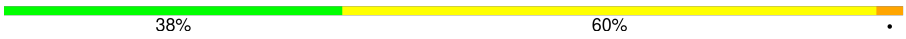
• Molecule 1: capsid protein

Chain lB:



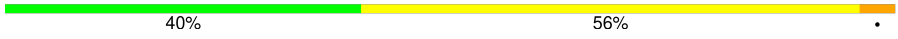
• Molecule 1: capsid protein

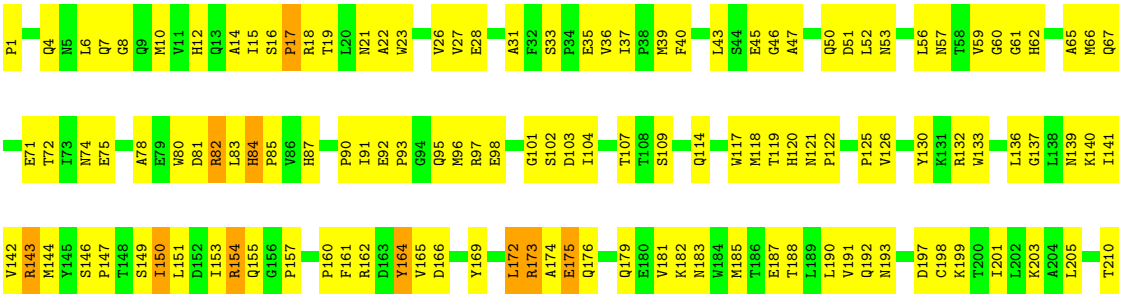
Chain 29:



• Molecule 1: capsid protein

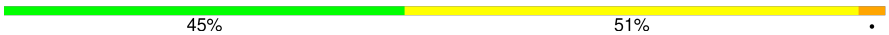
Chain lC:

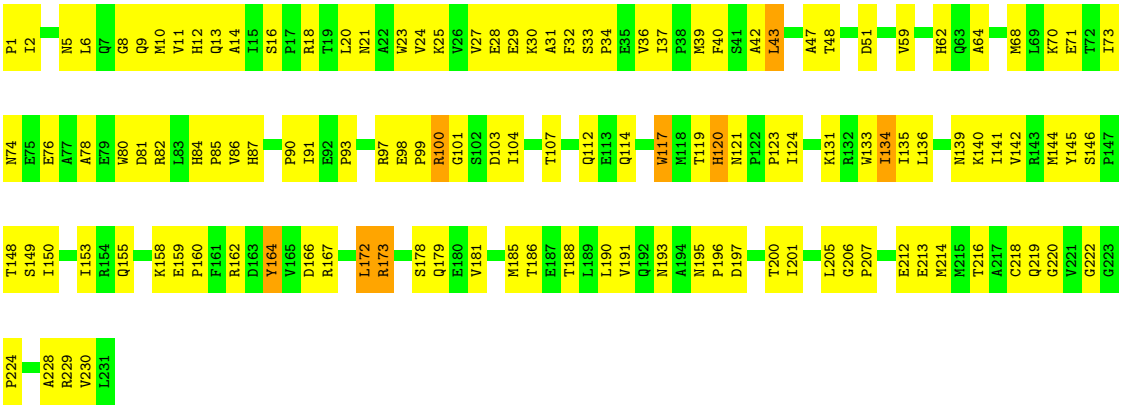




• Molecule 1: capsid protein

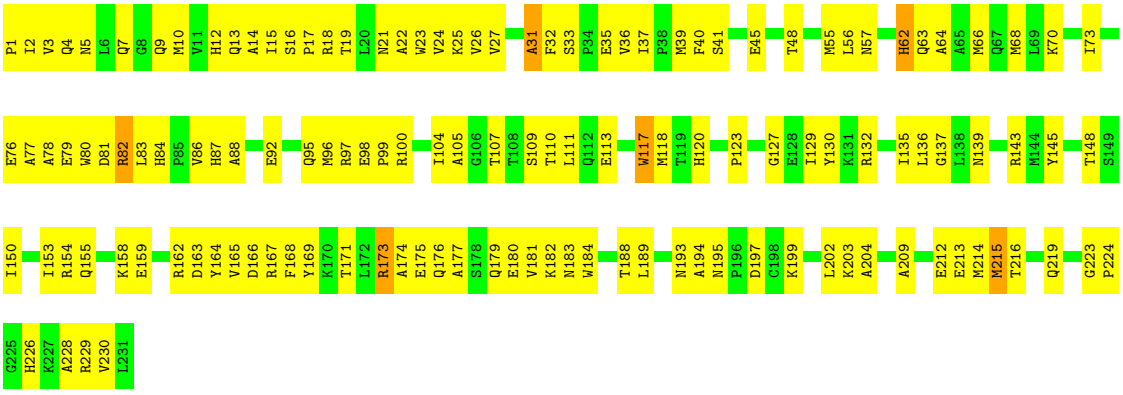
Chain lD:





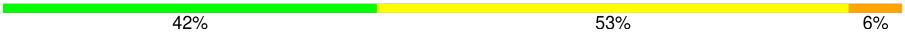
• Molecule 1: capsid protein

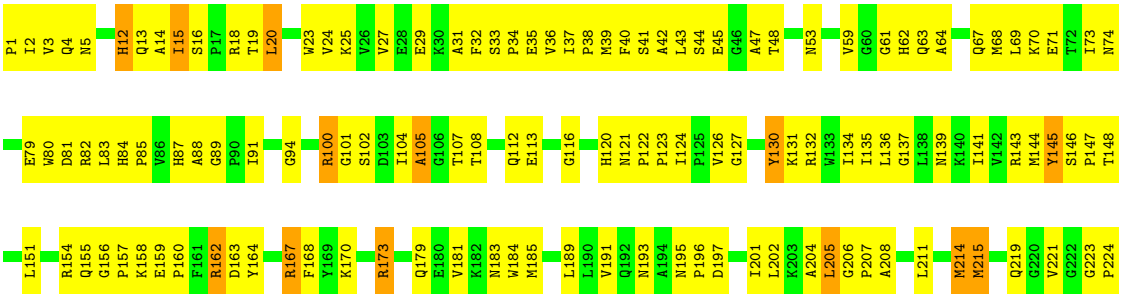
Chain lE:

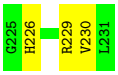


• Molecule 1: capsid protein

Chain lF:





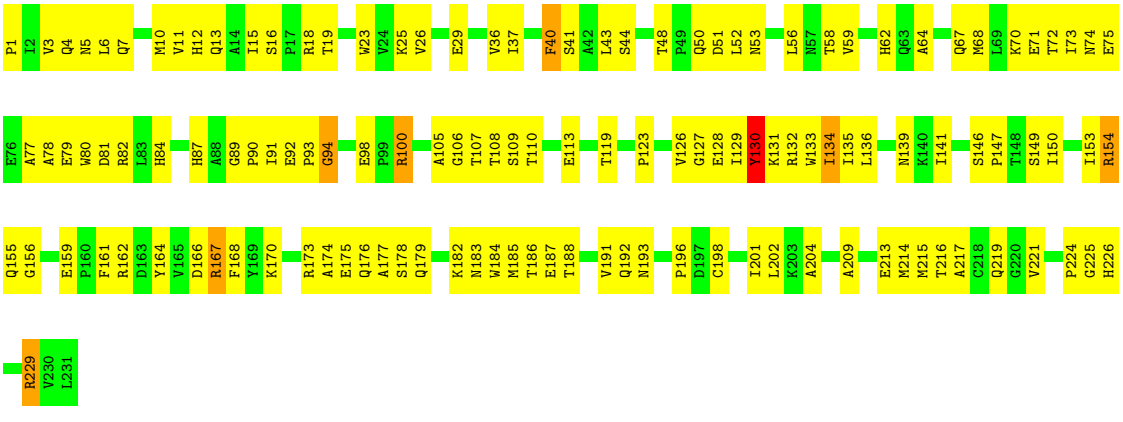


• Molecule 1: capsid protein

Chain lG:

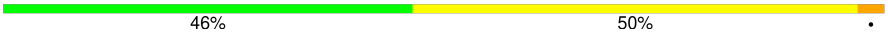
• Molecule 1: capsid protein

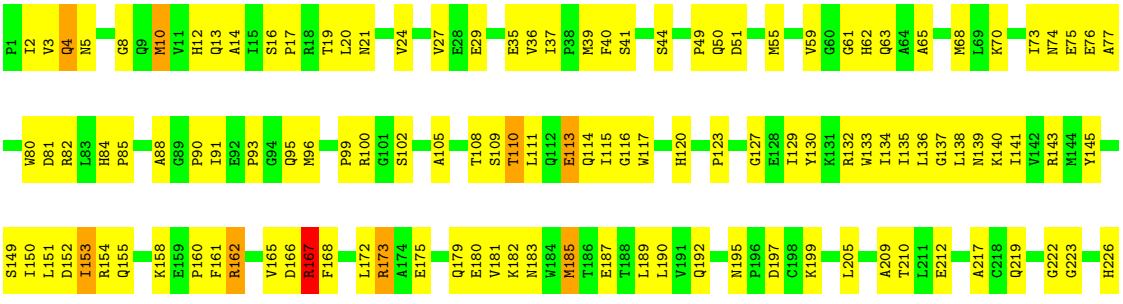
Chain lH:



• Molecule 1: capsid protein

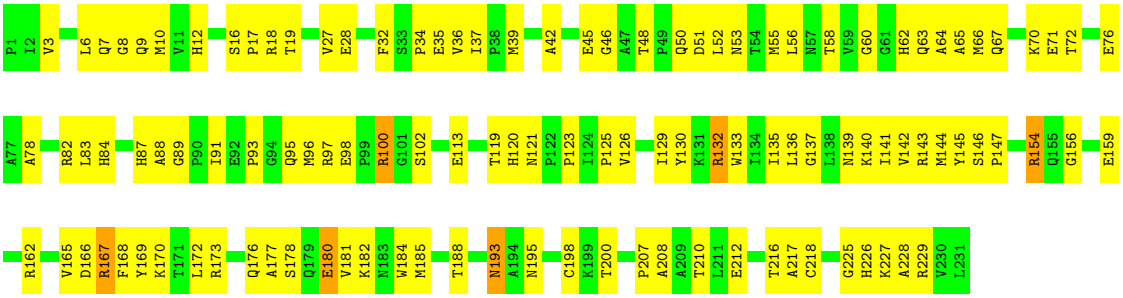
Chain lI:





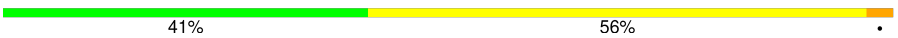
• Molecule 1: capsid protein

Chain lJ:



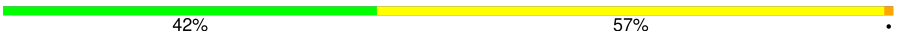
• Molecule 1: capsid protein

Chain lK:



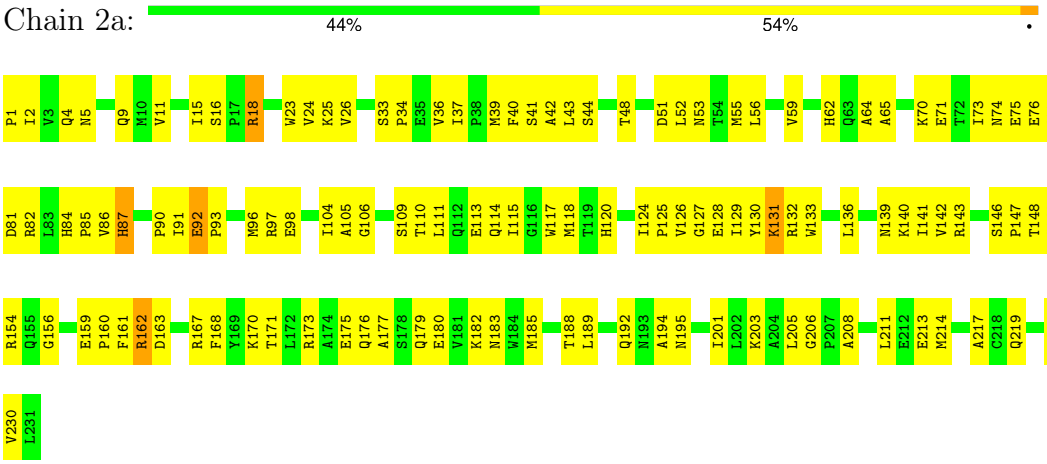
• Molecule 1: capsid protein

Chain lL:



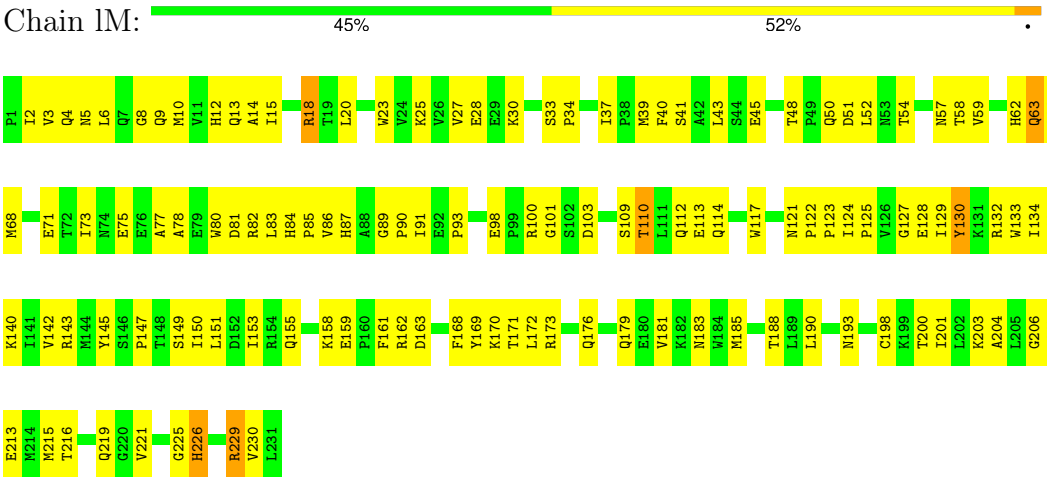
• Molecule 1: capsid protein

Chain 2a:



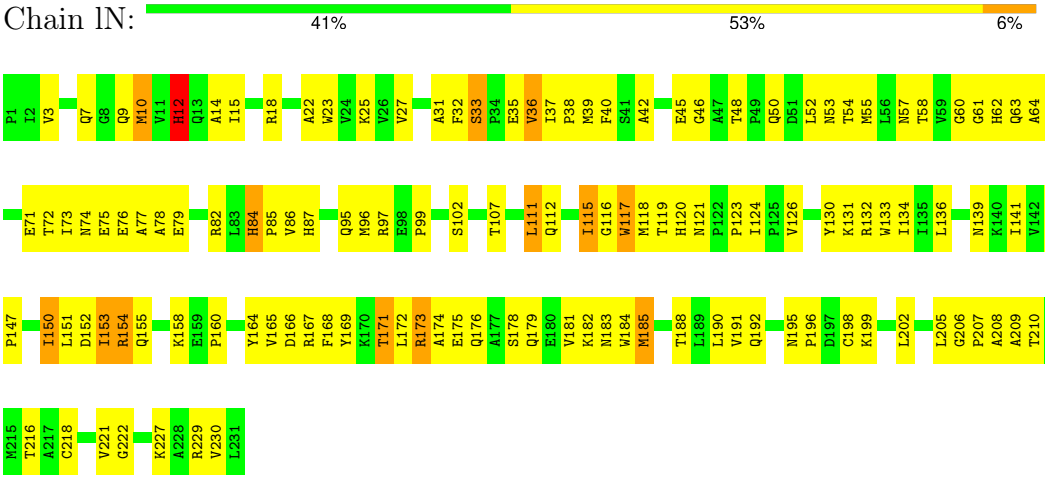
• Molecule 1: capsid protein

Chain lM:



• Molecule 1: capsid protein

Chain lN:

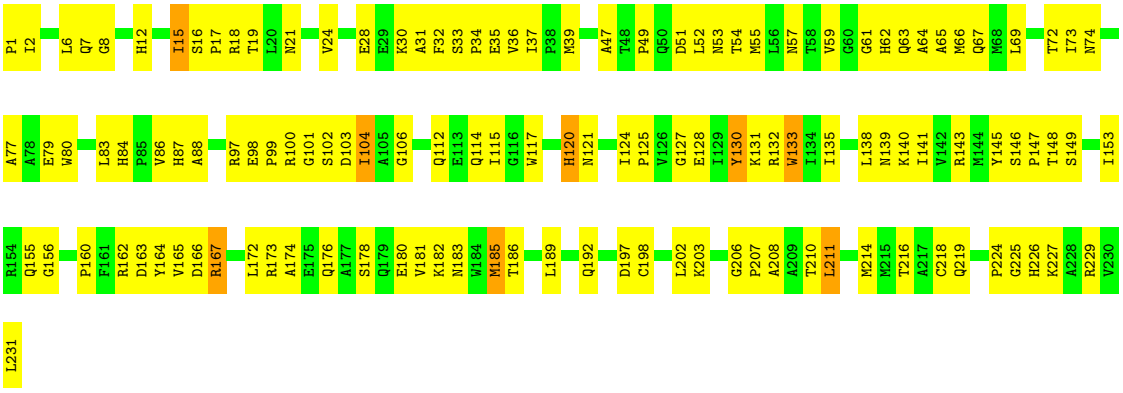


• Molecule 1: capsid protein

Chain lO:

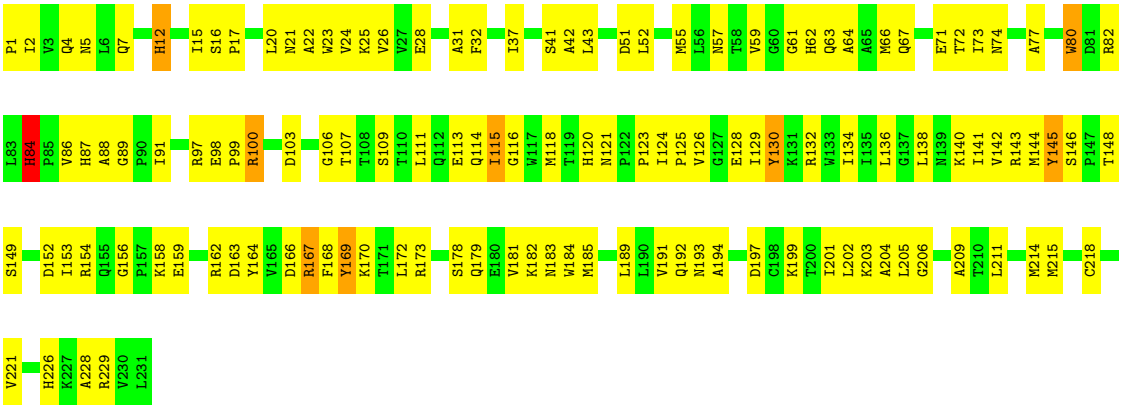
• Molecule 1: capsid protein

Chain lP:



• Molecule 1: capsid protein

Chain lQ:



• Molecule 1: capsid protein

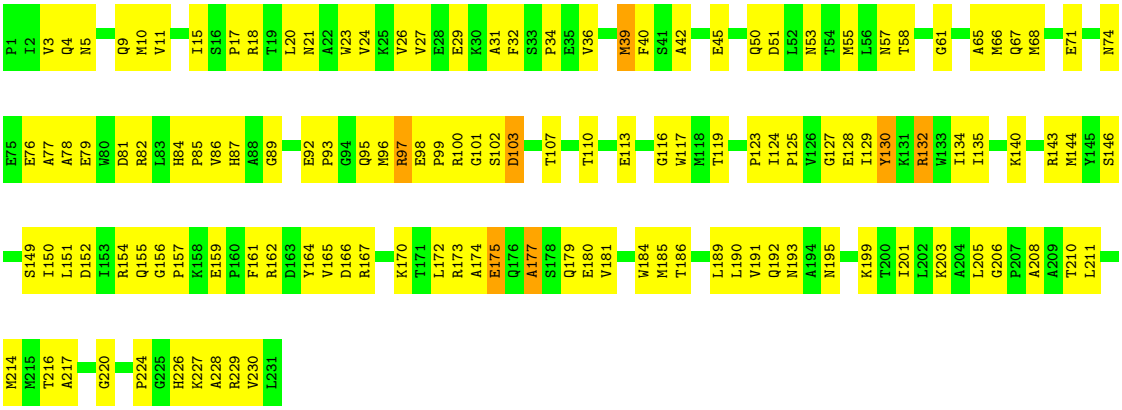
Chain lR:

• Molecule 1: capsid protein

Chain 2b:

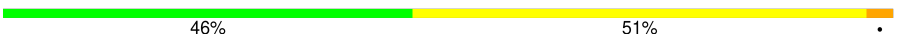
• Molecule 1: capsid protein

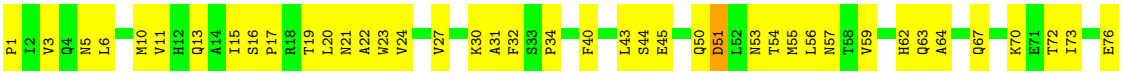
Chain 2c:

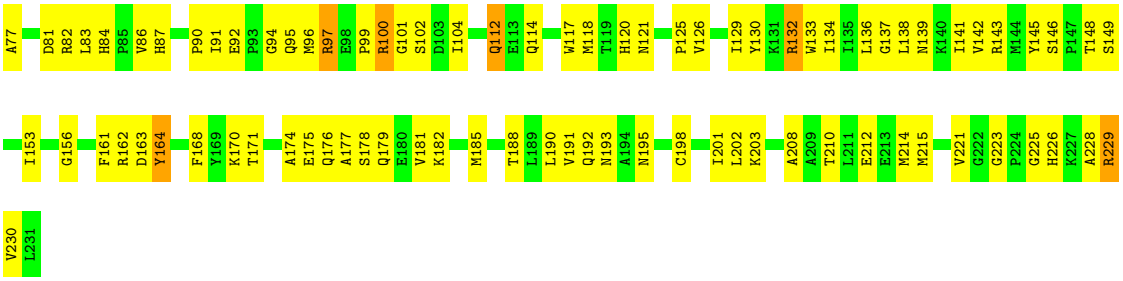


• Molecule 1: capsid protein

Chain 2d:

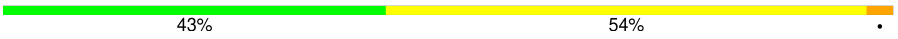


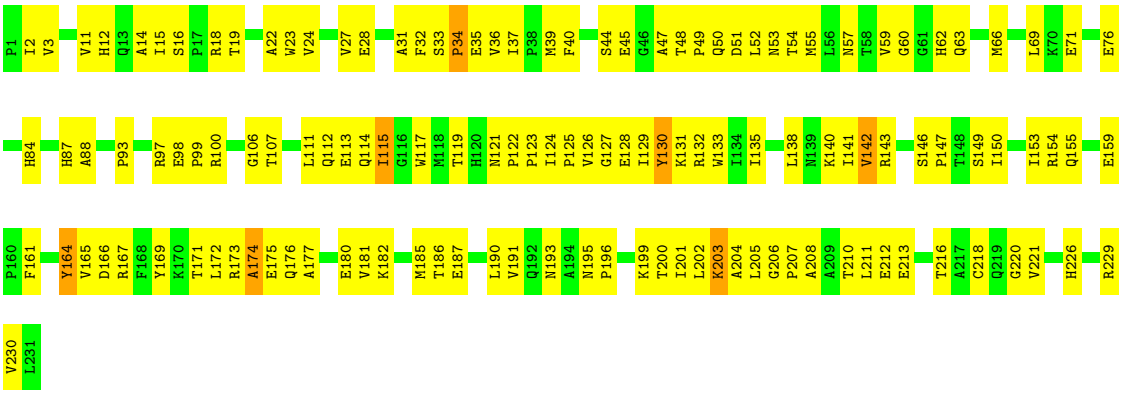




• Molecule 1: capsid protein

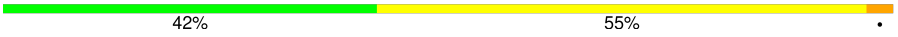
Chain 2e:

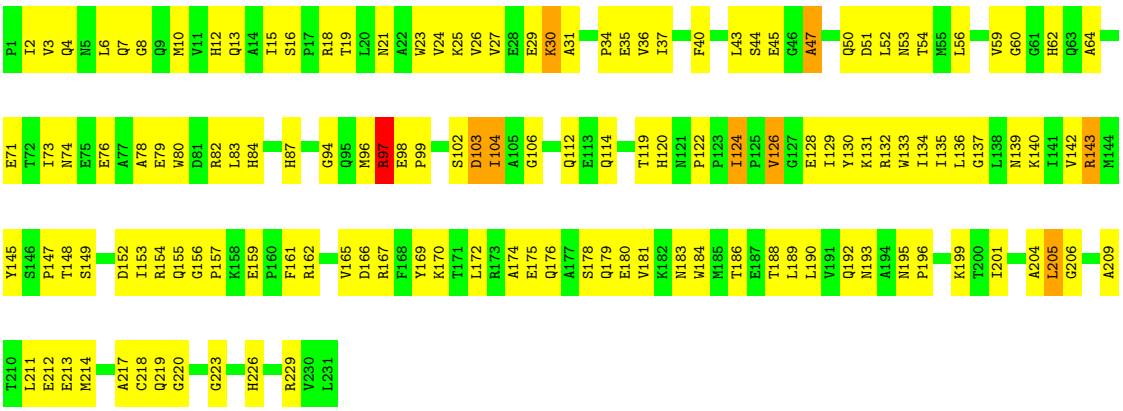




• Molecule 1: capsid protein

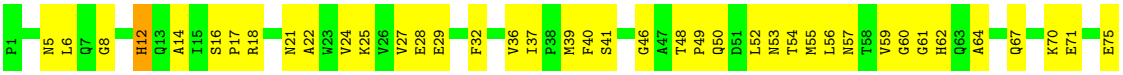
Chain 2f:

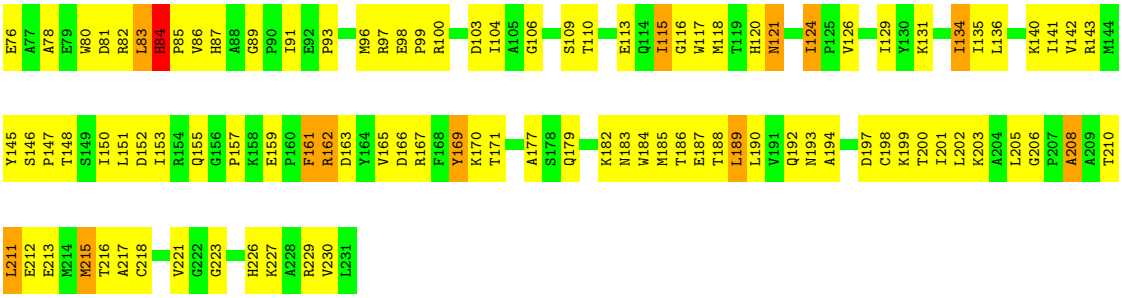




• Molecule 1: capsid protein

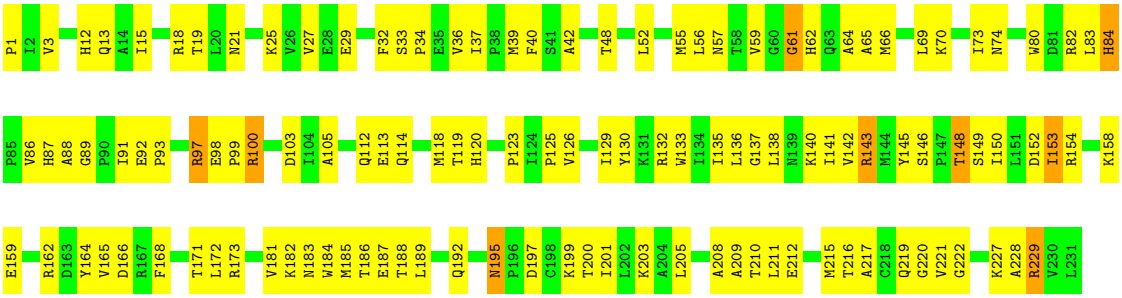
Chain 2g:





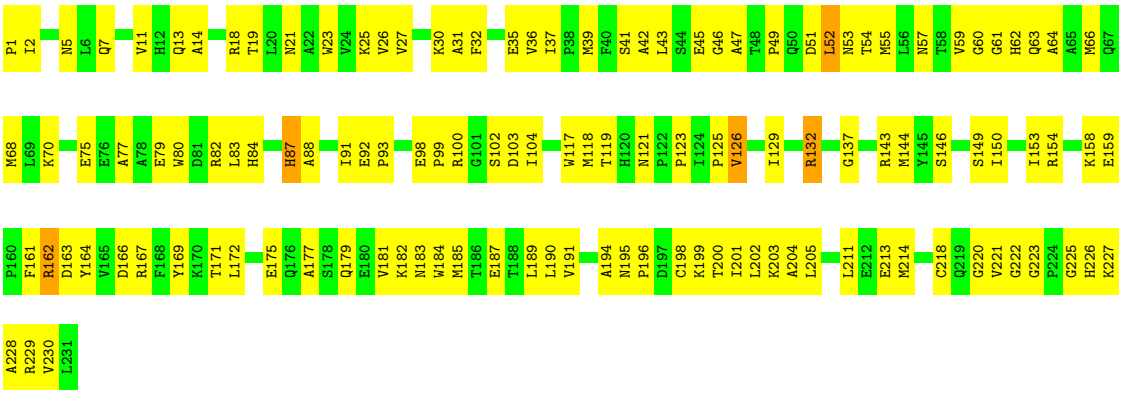
• Molecule 1: capsid protein

Chain 2h:



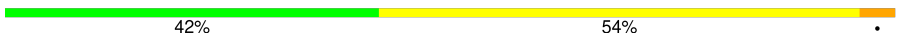
• Molecule 1: capsid protein

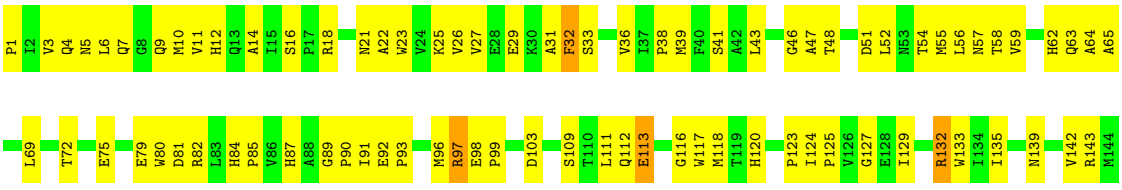
Chain 2i:

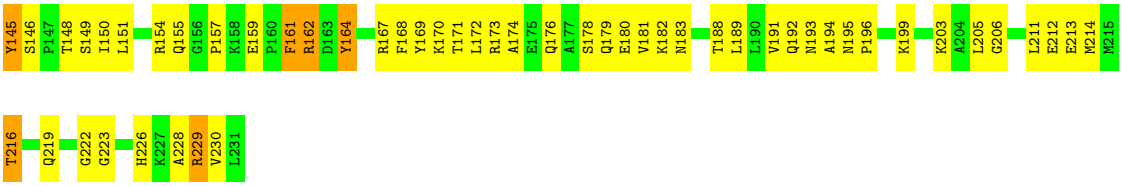


• Molecule 1: capsid protein

Chain 2j:

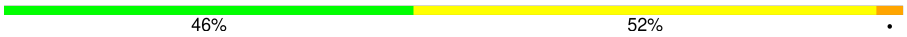






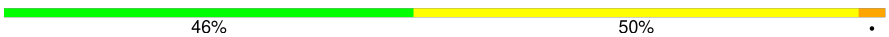
• Molecule 1: capsid protein

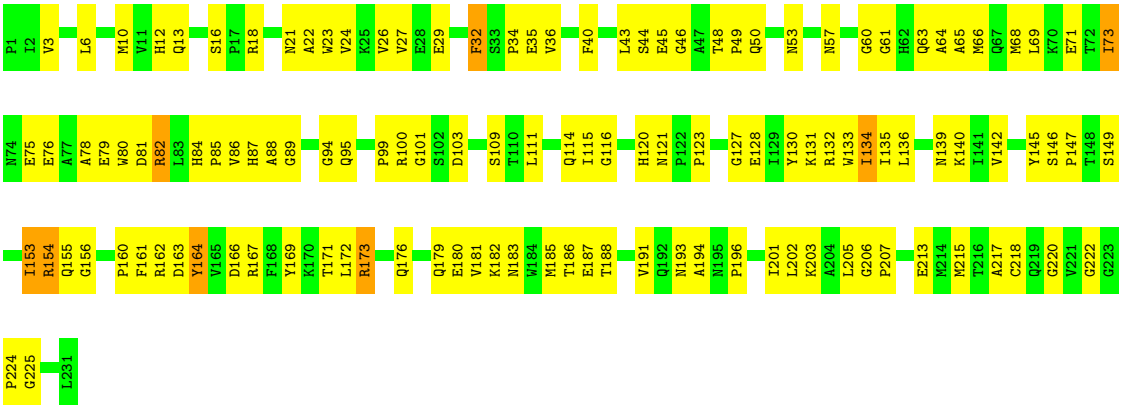
Chain 2k:



• Molecule 1: capsid protein

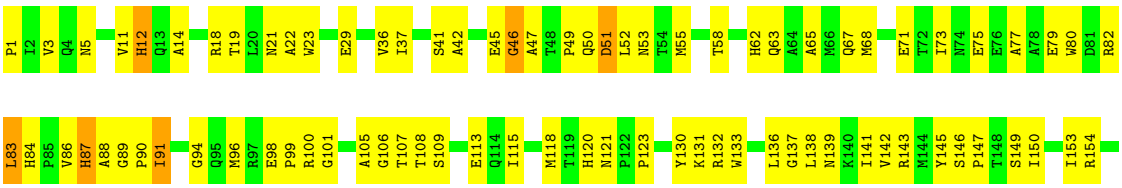
Chain 2l:





• Molecule 1: capsid protein

Chain 2m:

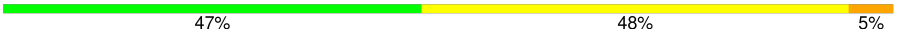


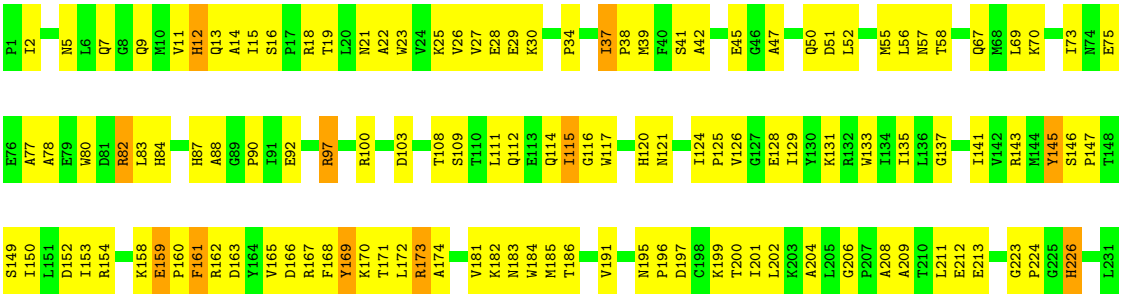
• Molecule 1: capsid protein

Chain 2n:

• Molecule 1: capsid protein

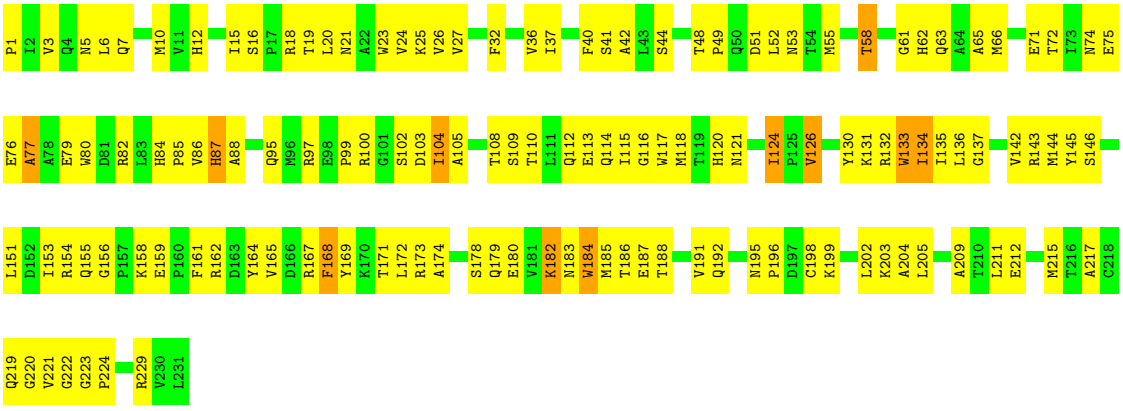
Chain 2o:





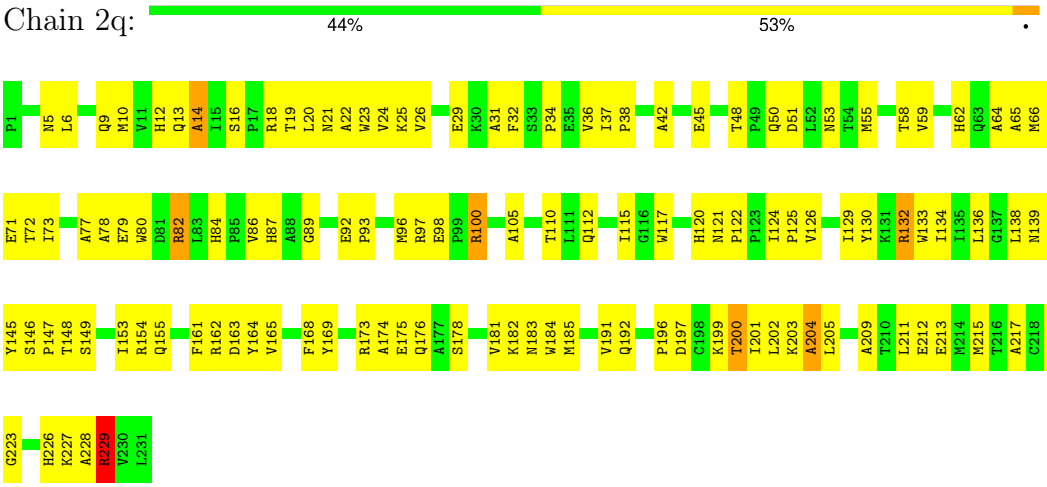
• Molecule 1: capsid protein

Chain 2p:



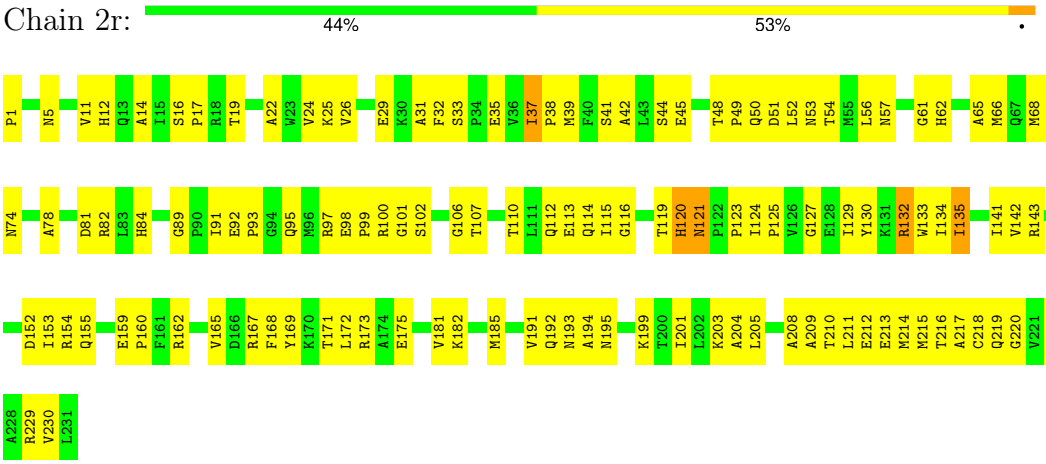
• Molecule 1: capsid protein

Chain 2q:



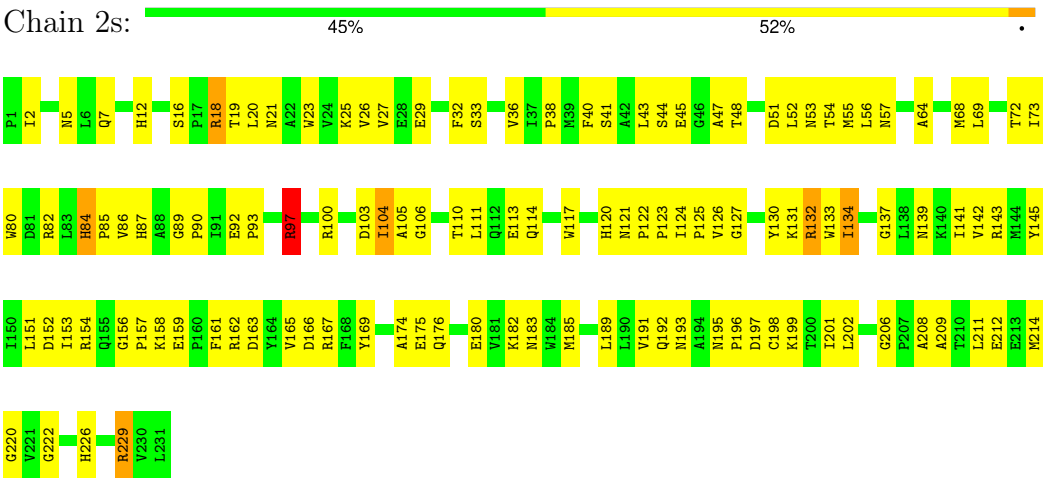
• Molecule 1: capsid protein

Chain 2r:



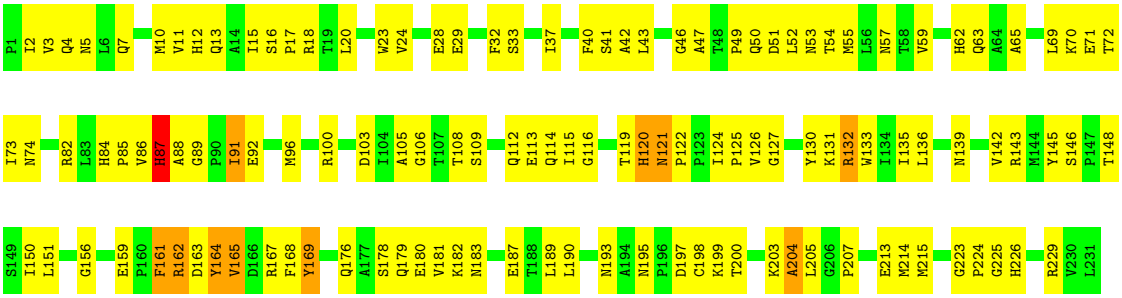
• Molecule 1: capsid protein

Chain 2s:



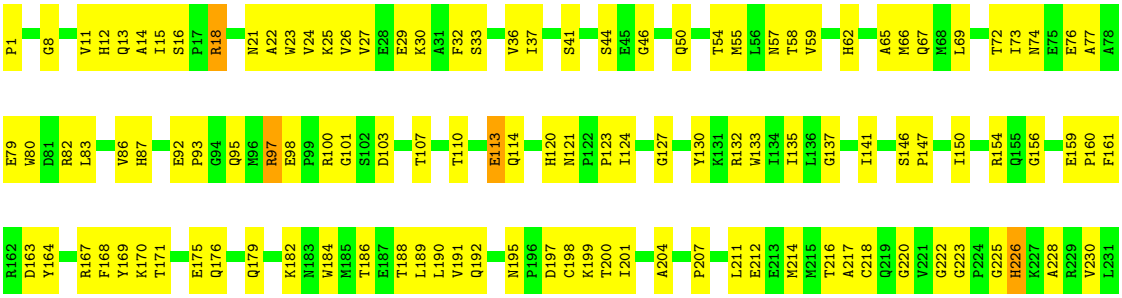
• Molecule 1: capsid protein

Chain 2t:



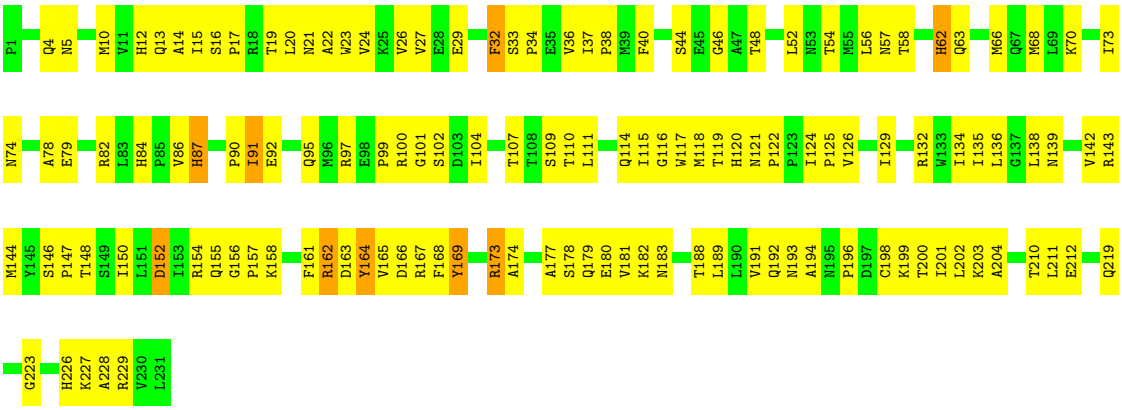
• Molecule 1: capsid protein

Chain 2u:



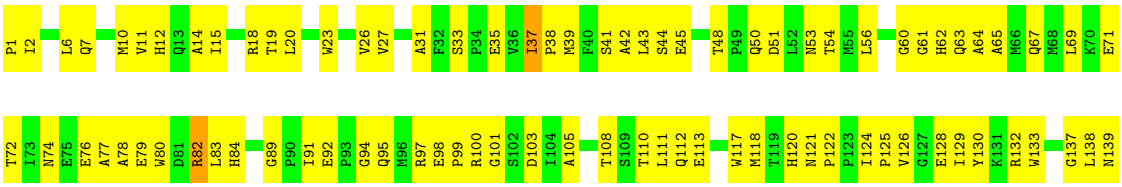
• Molecule 1: capsid protein

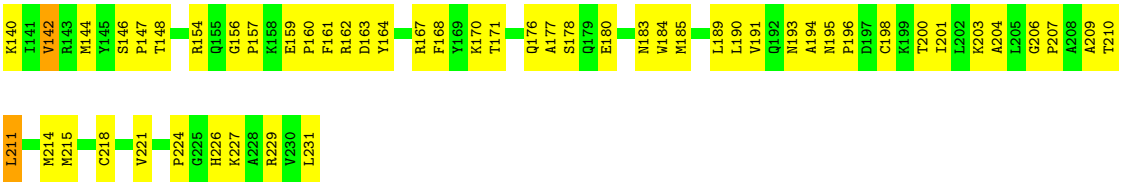
Chain 2v:



• Molecule 1: capsid protein

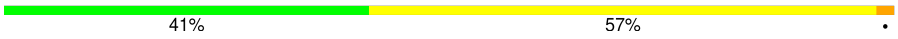
Chain 2w:

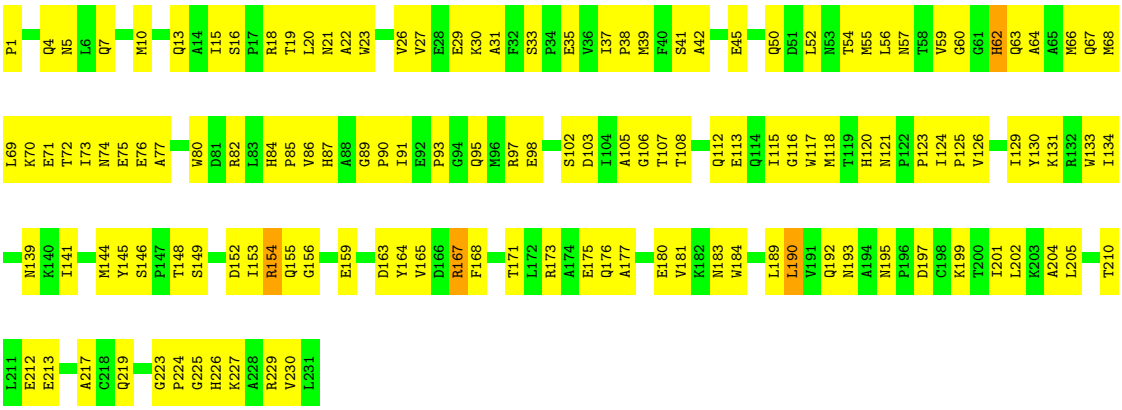




• Molecule 1: capsid protein

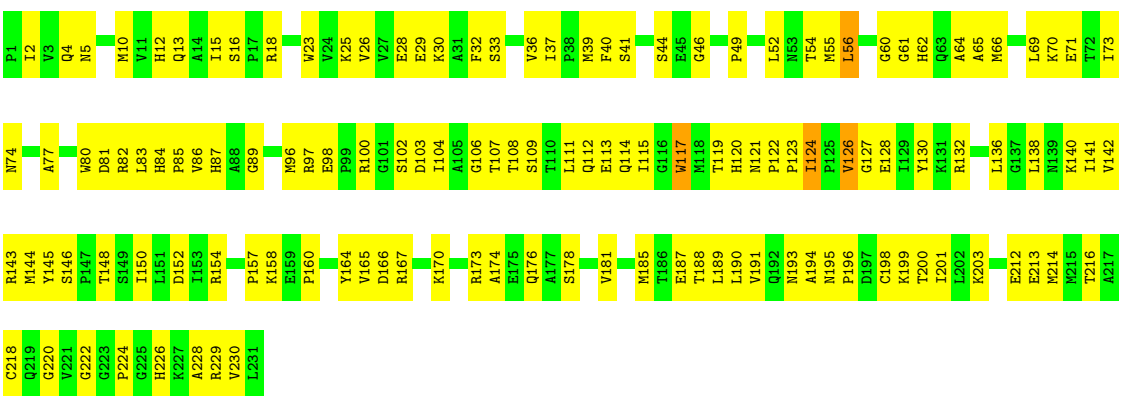
Chain 2x:





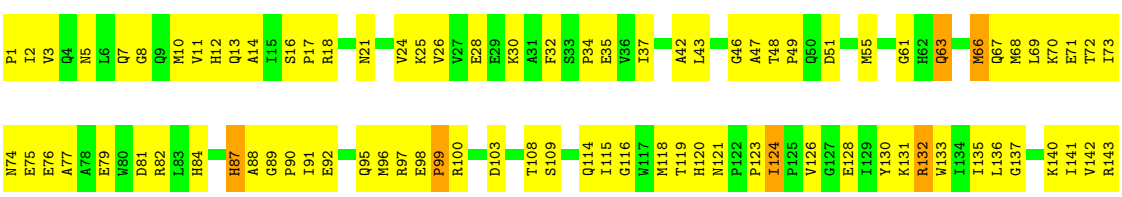
• Molecule 1: capsid protein

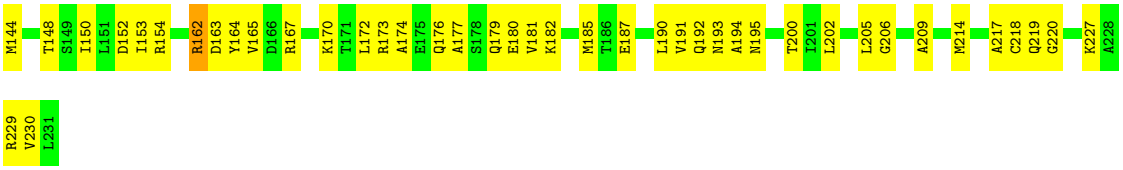
Chain 2y:



• Molecule 1: capsid protein

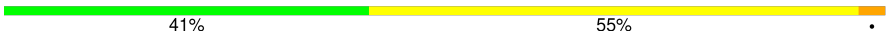
Chain 2z:

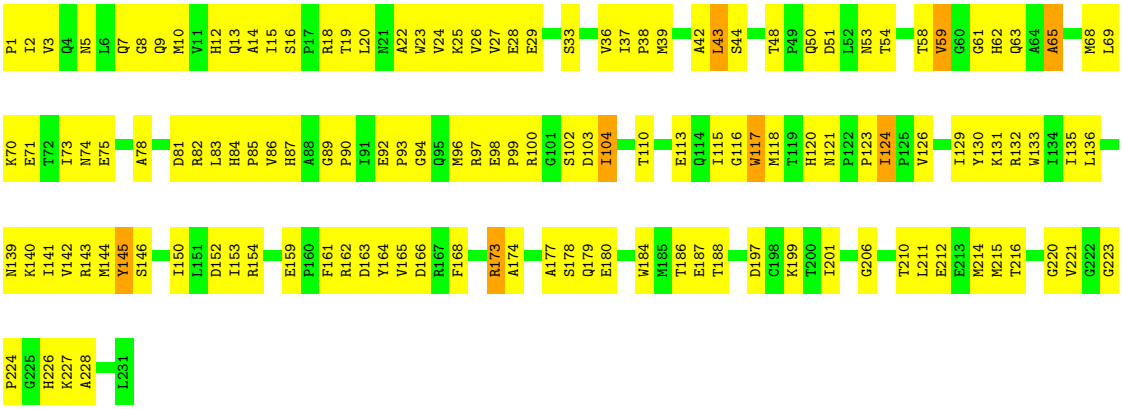




• Molecule 1: capsid protein

Chain 2A:



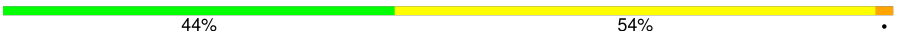


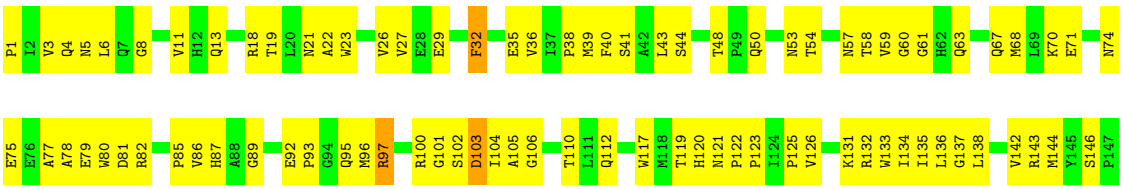
• Molecule 1: capsid protein

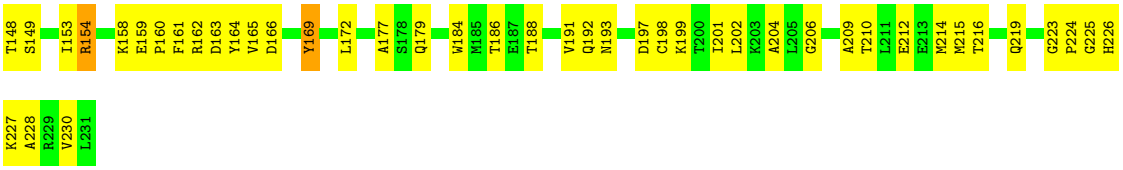
Chain 2B:

• Molecule 1: capsid protein

Chain 2C:

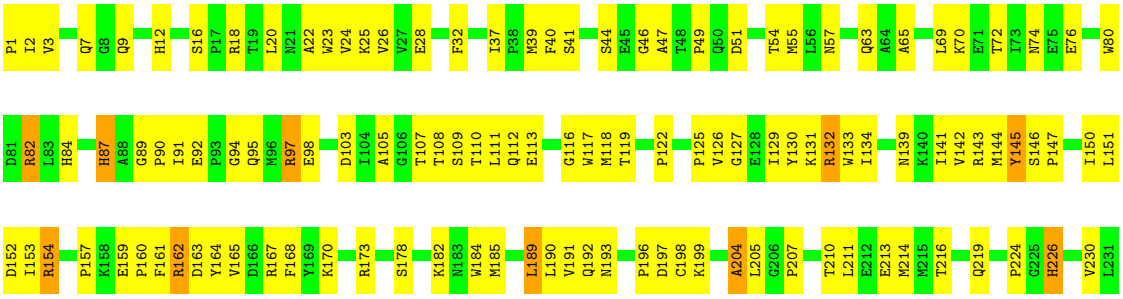






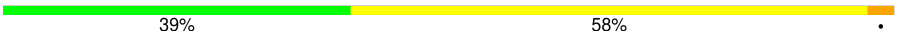
• Molecule 1: capsid protein

Chain 2D:



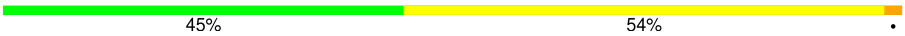
• Molecule 1: capsid protein

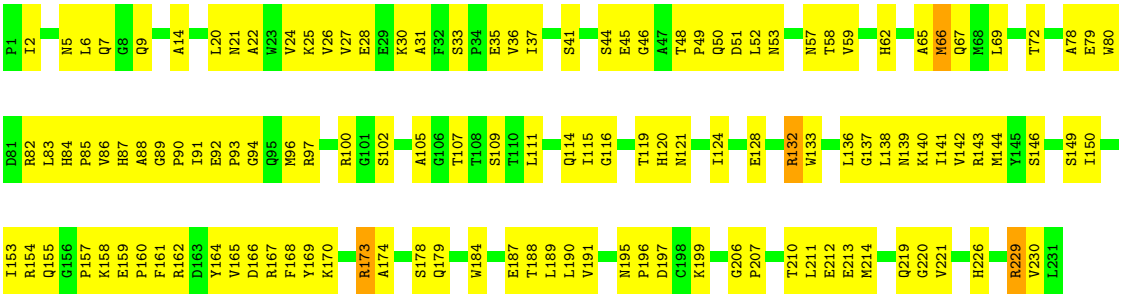
Chain 2E:



• Molecule 1: capsid protein

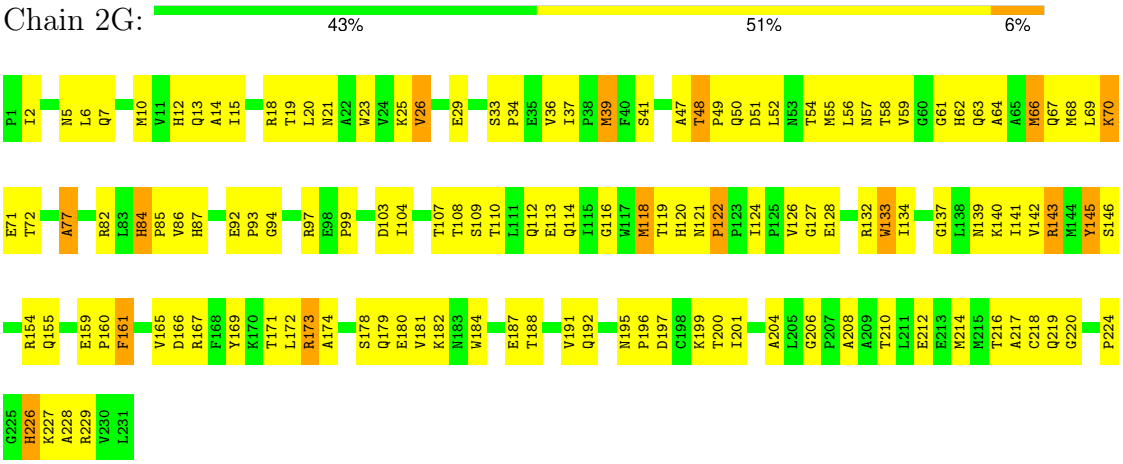
Chain 2F:





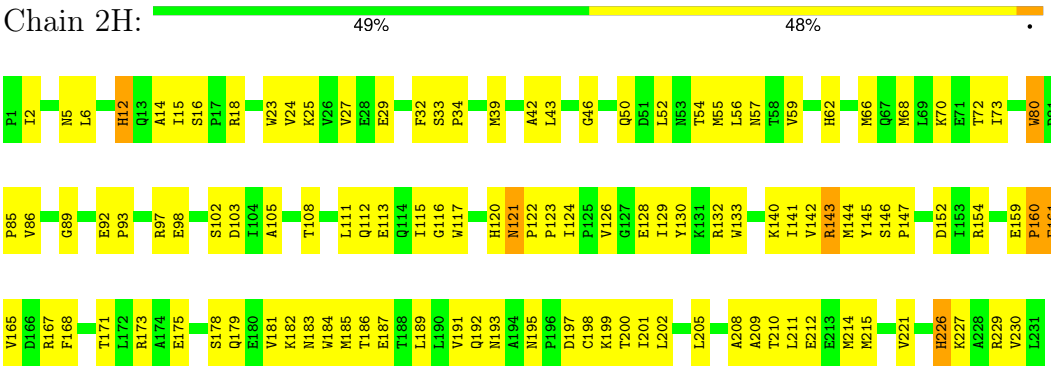
• Molecule 1: capsid protein

Chain 2G:



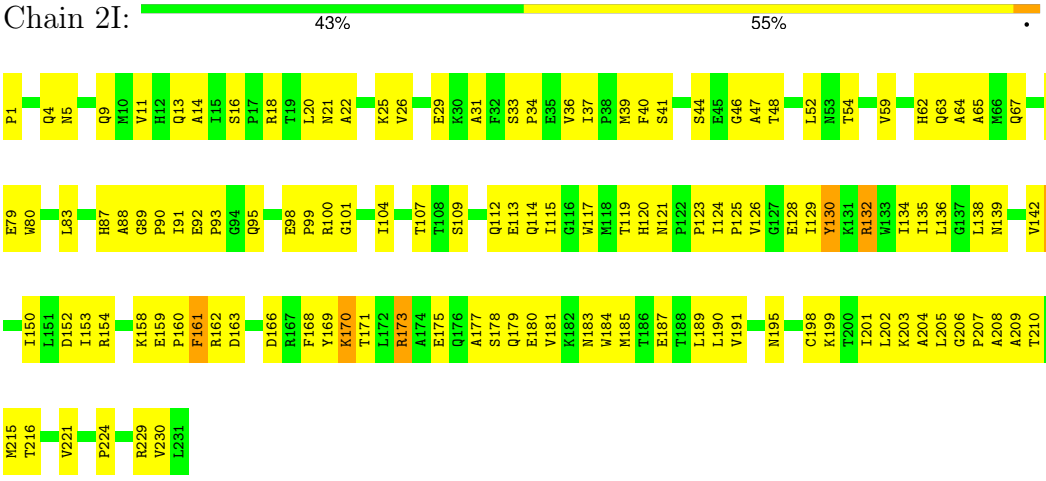
• Molecule 1: capsid protein

Chain 2H:



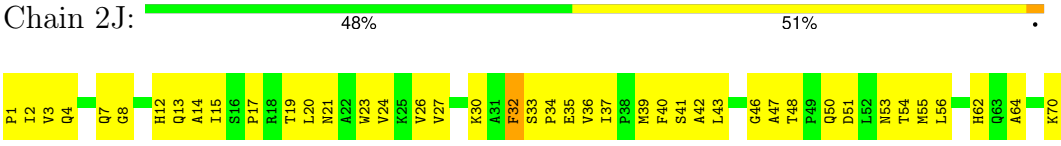
• Molecule 1: capsid protein

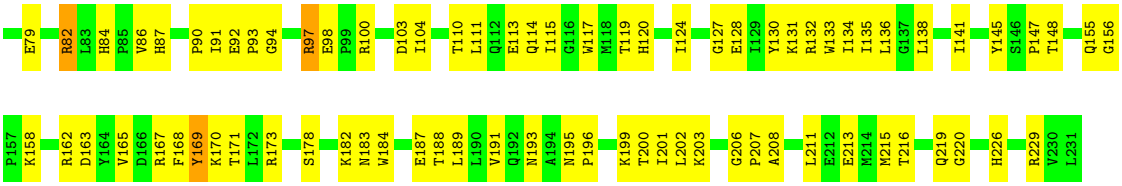
Chain 2I:



• Molecule 1: capsid protein

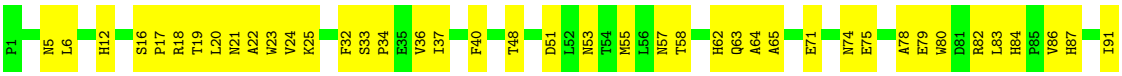
Chain 2J:

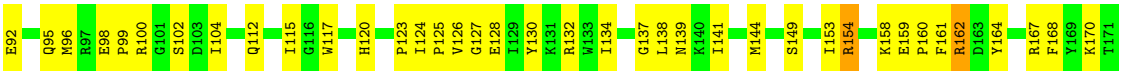


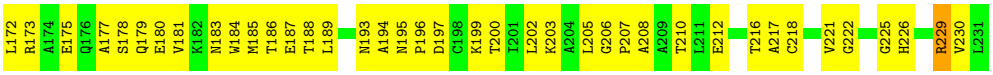


• Molecule 1: capsid protein

Chain 2K:

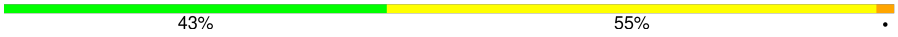


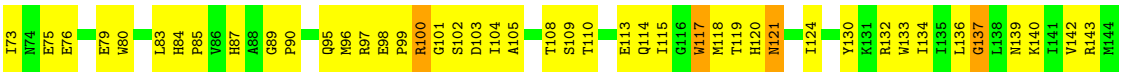




• Molecule 1: capsid protein

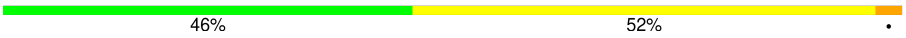
Chain 2L:





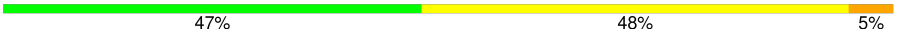
• Molecule 1: capsid protein

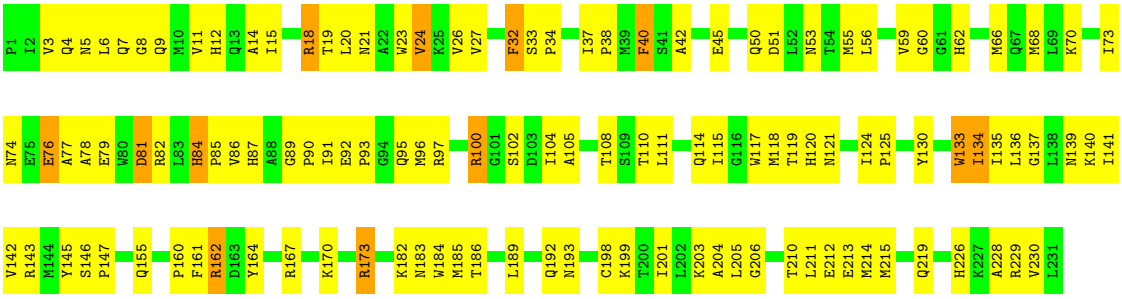
Chain 2M:



• Molecule 1: capsid protein

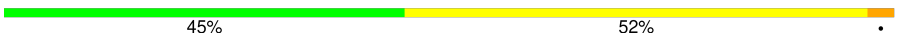
Chain 2N:





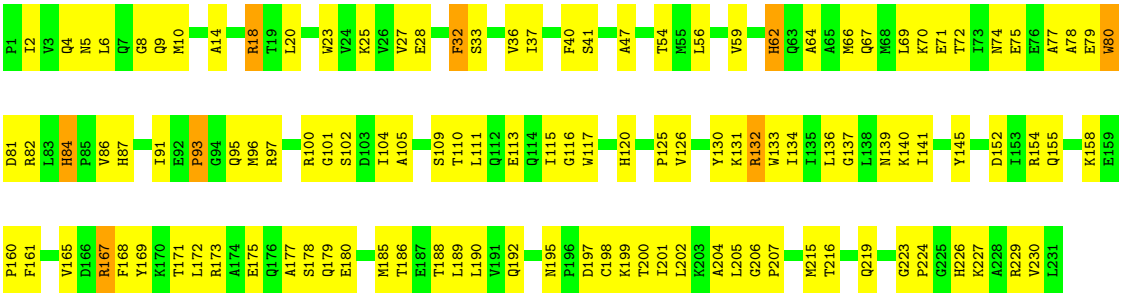
• Molecule 1: capsid protein

Chain 2O:



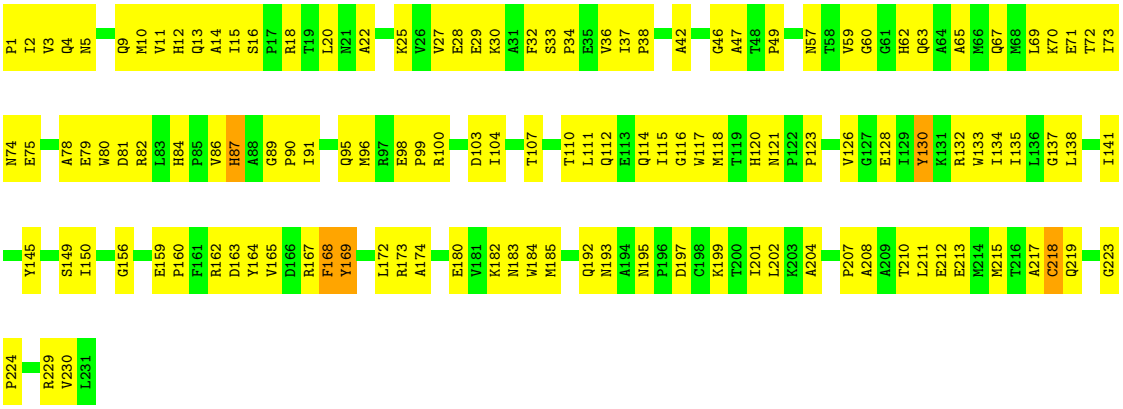
• Molecule 1: capsid protein

Chain 2P:



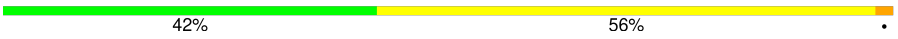
• Molecule 1: capsid protein

Chain 2Q:



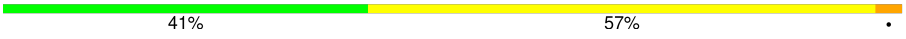
• Molecule 1: capsid protein

Chain 2R:



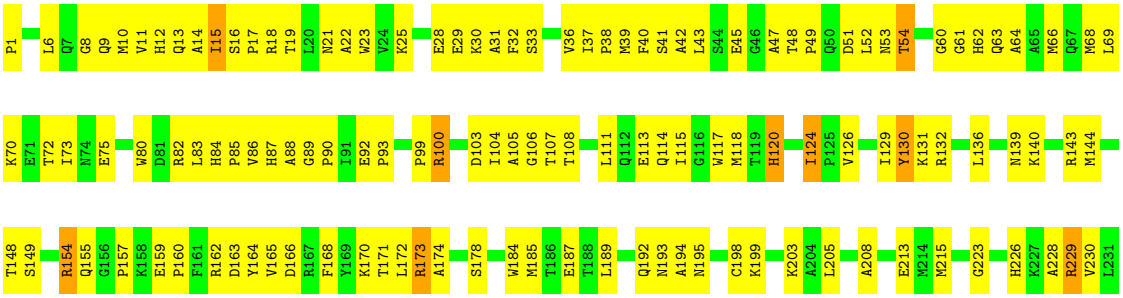
• Molecule 1: capsid protein

Chain 2S:



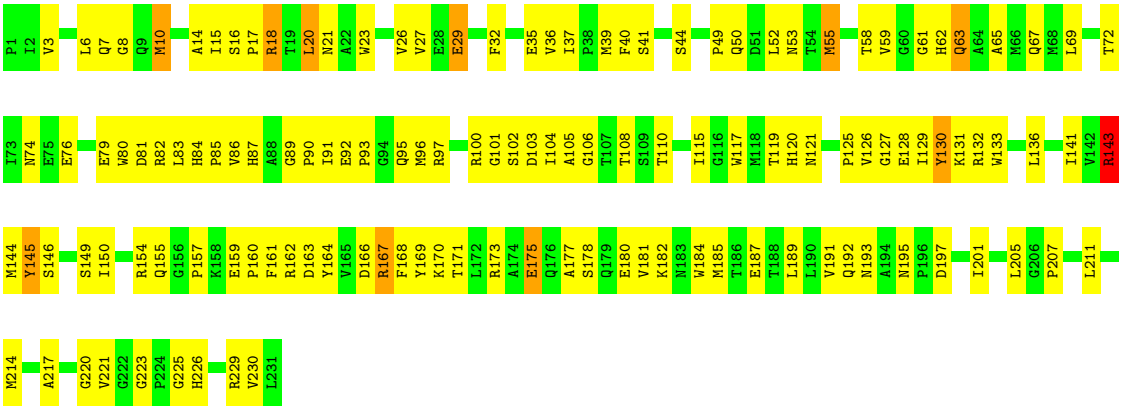
• Molecule 1: capsid protein

Chain 2T:



• Molecule 1: capsid protein

Chain 2U:

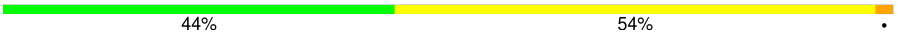


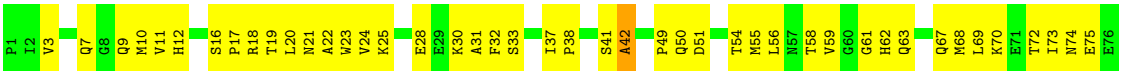
• Molecule 1: capsid protein

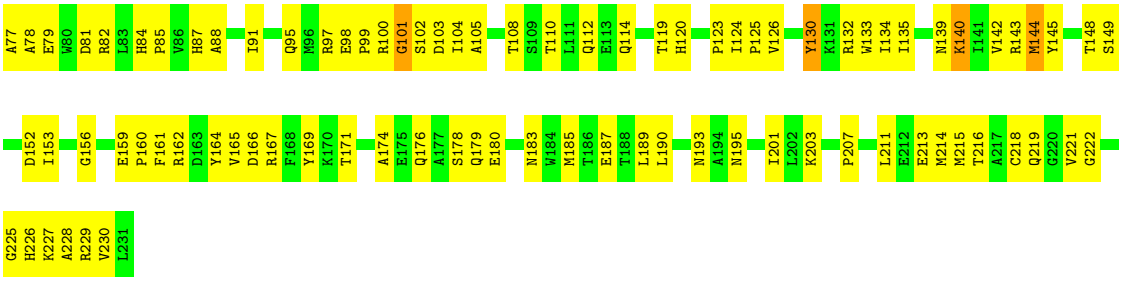
Chain 2V:

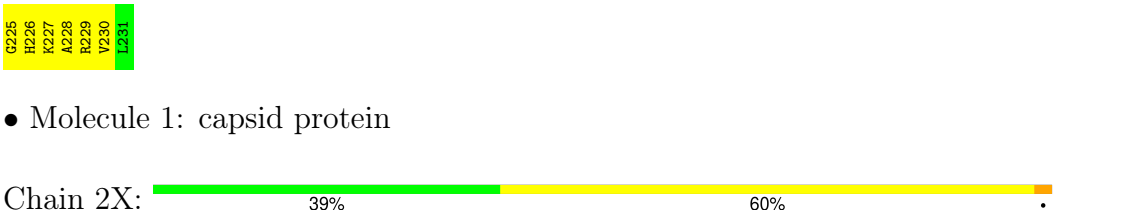
• Molecule 1: capsid protein

Chain 2W:



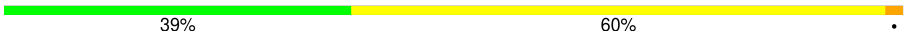


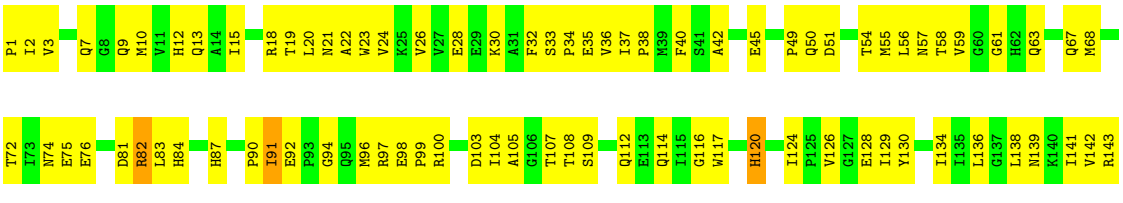


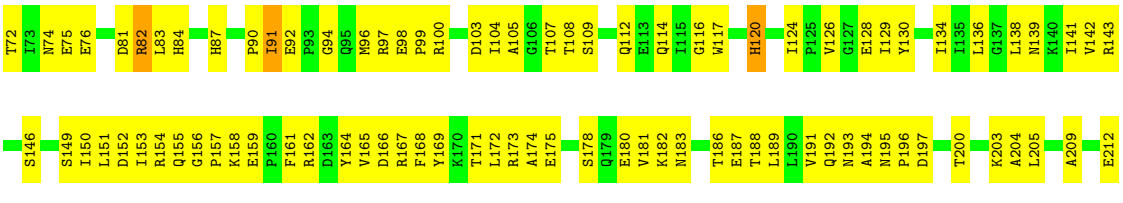


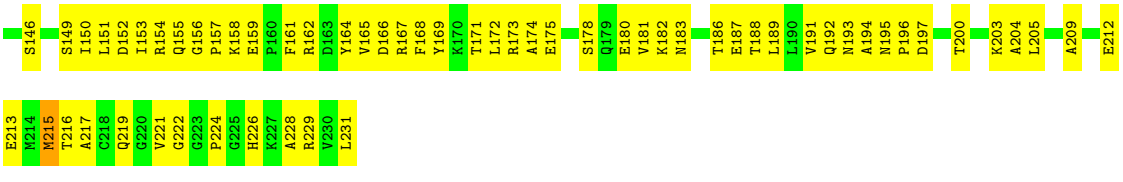
• Molecule 1: capsid protein

Chain 2X:



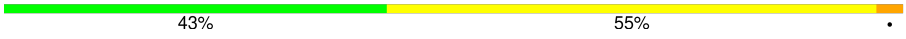


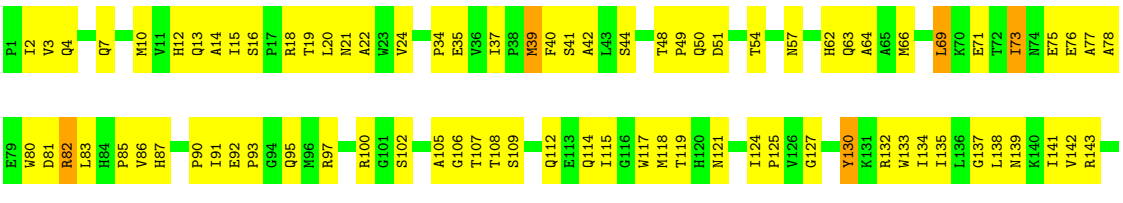


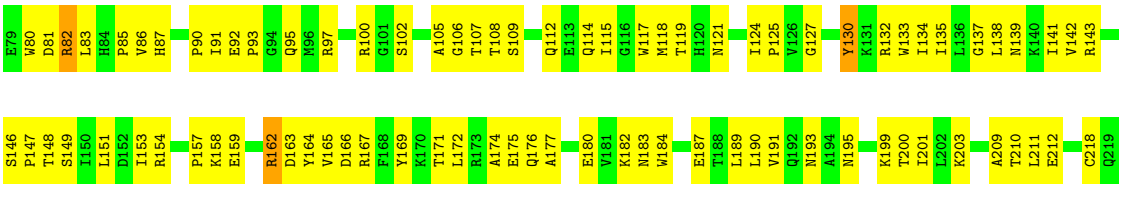


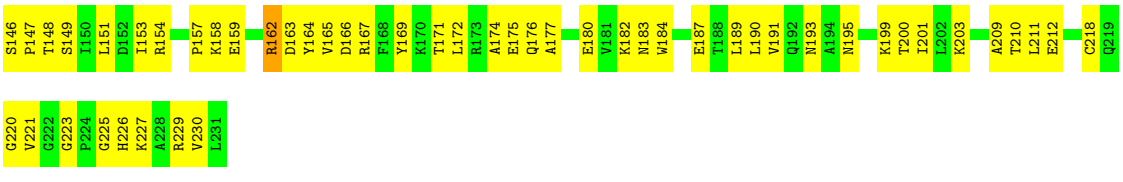
• Molecule 1: capsid protein

Chain 2Y:



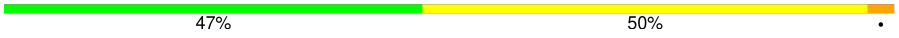


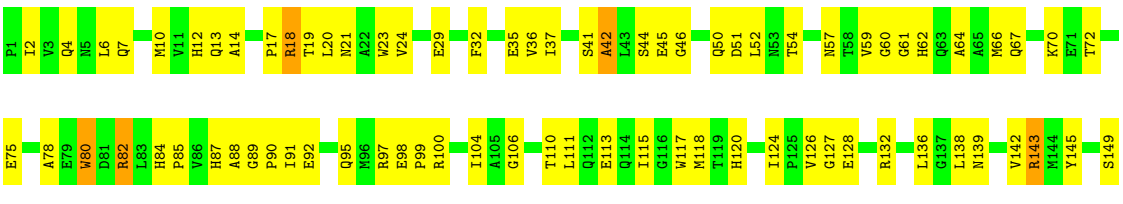


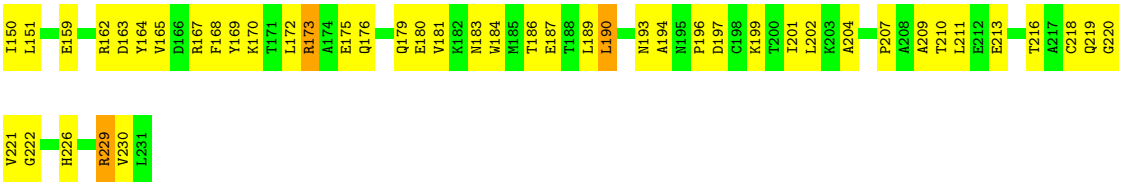


• Molecule 1: capsid protein

Chain 2Z:

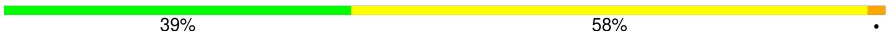


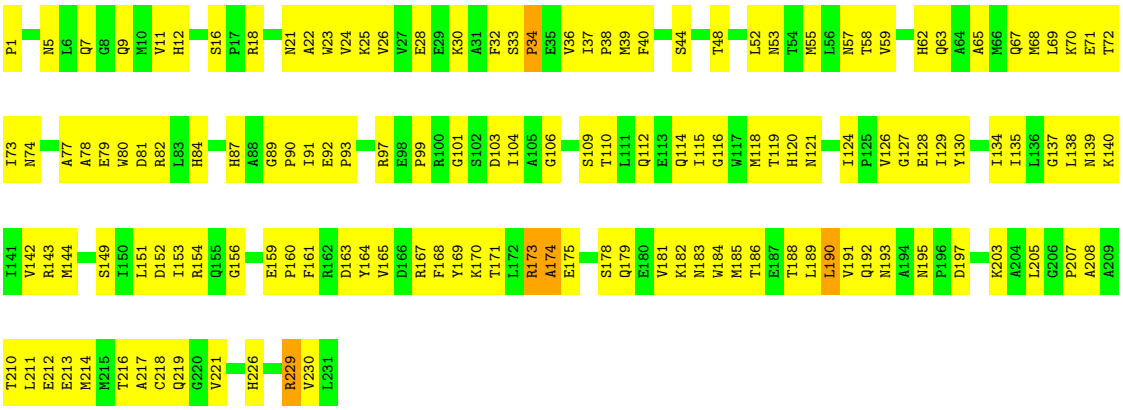




• Molecule 1: capsid protein

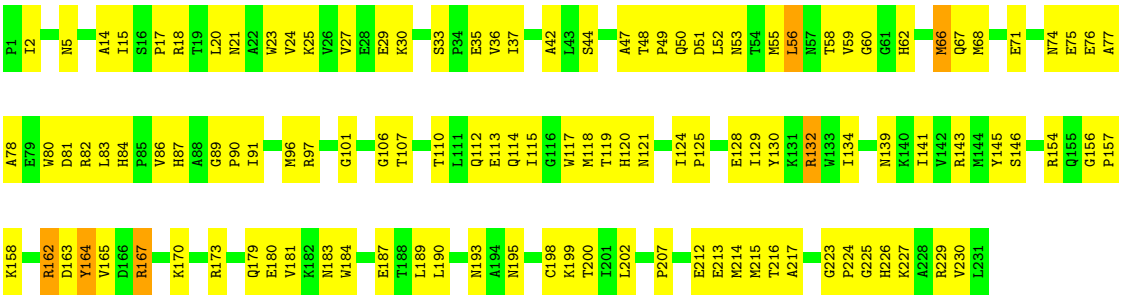
Chain 30:





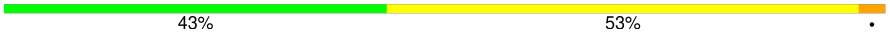
• Molecule 1: capsid protein

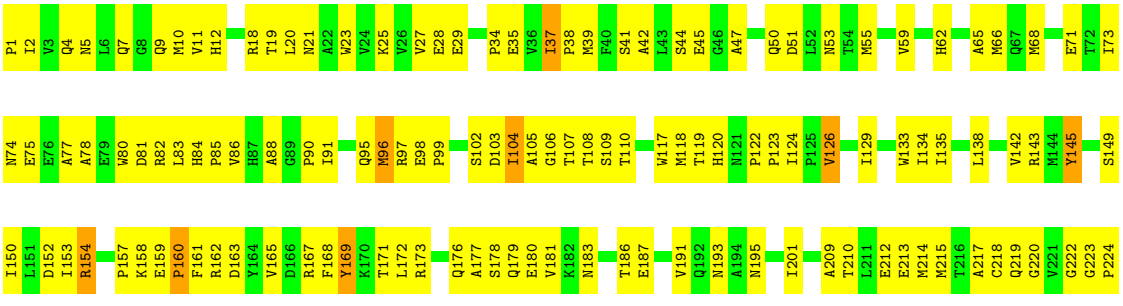
Chain 31:



• Molecule 1: capsid protein

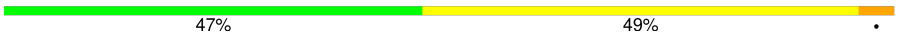
Chain 32:

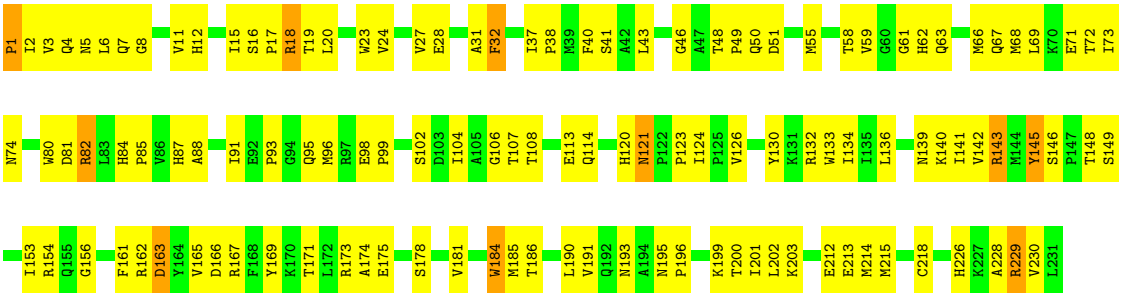




• Molecule 1: capsid protein

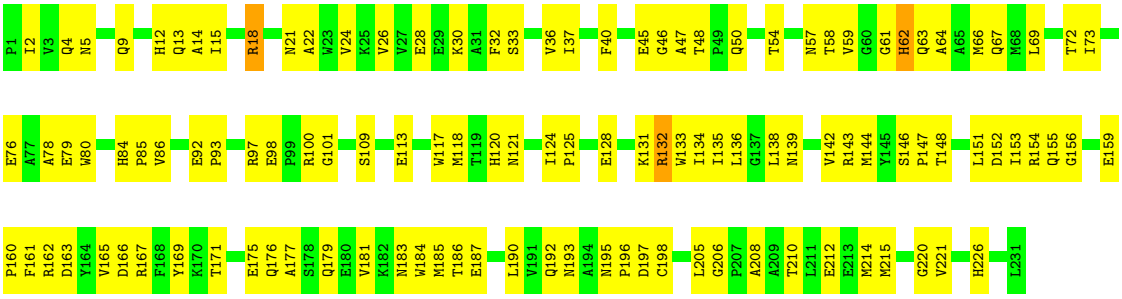
Chain 33:





• Molecule 1: capsid protein

Chain 34:

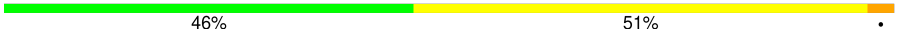


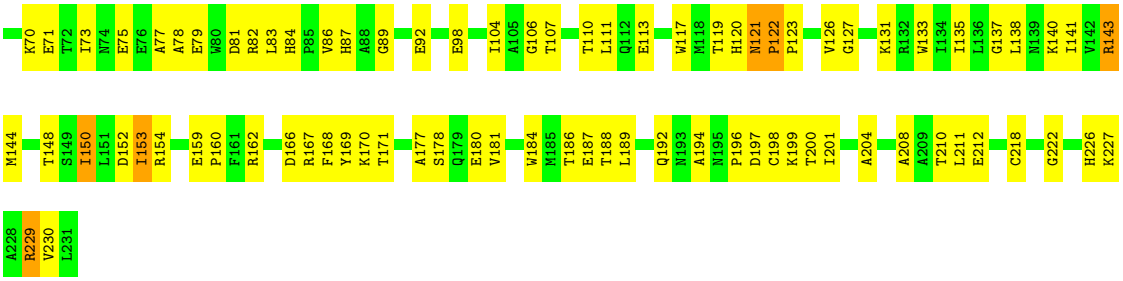
• Molecule 1: capsid protein

Chain 35:

• Molecule 1: capsid protein

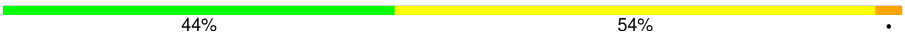
Chain 36:

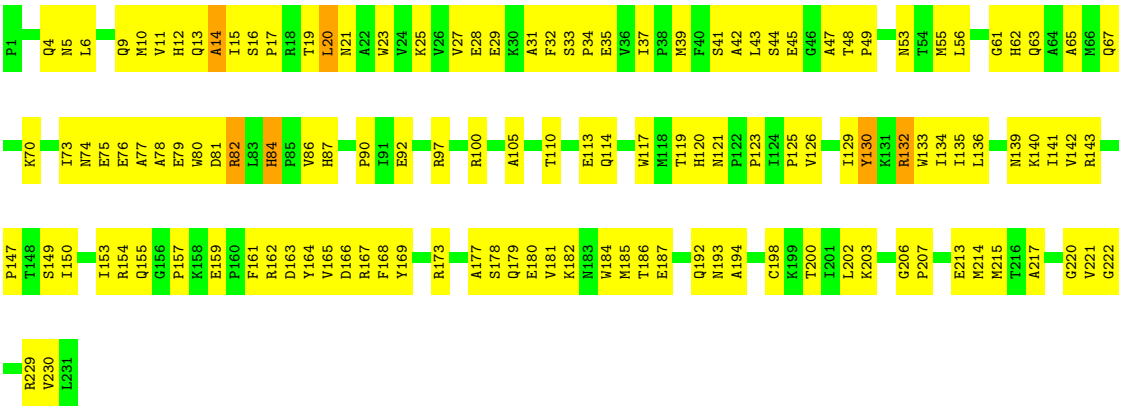




• Molecule 1: capsid protein

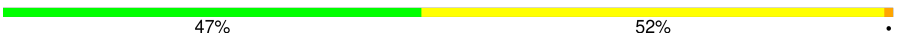
Chain 37:





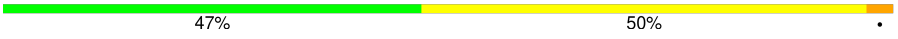
• Molecule 1: capsid protein

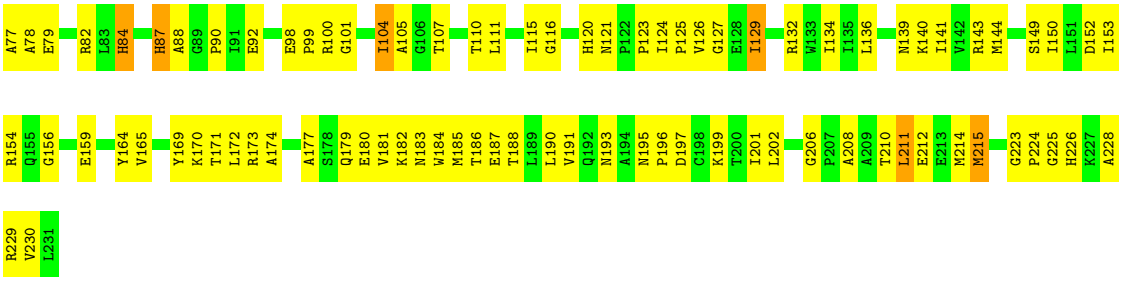
Chain 38:



• Molecule 1: capsid protein

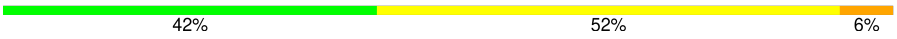
Chain 39:

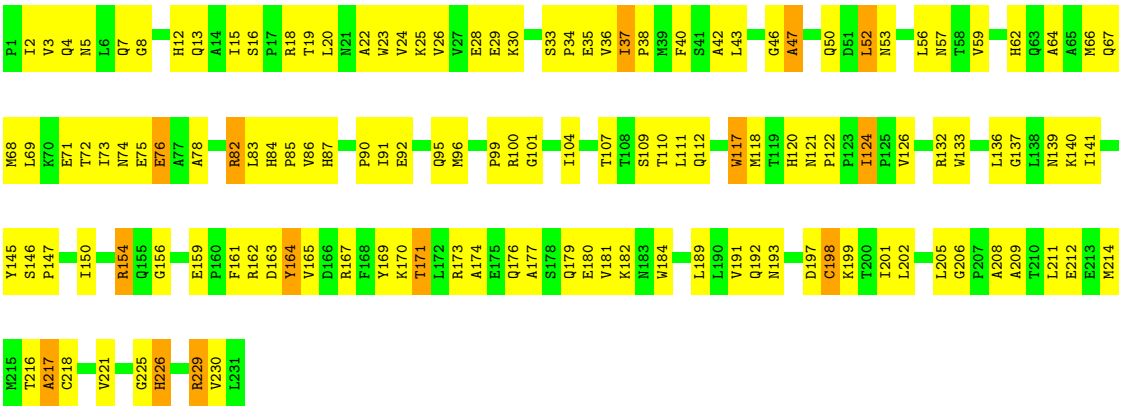




• Molecule 1: capsid protein

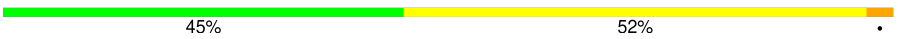
Chain 3a:

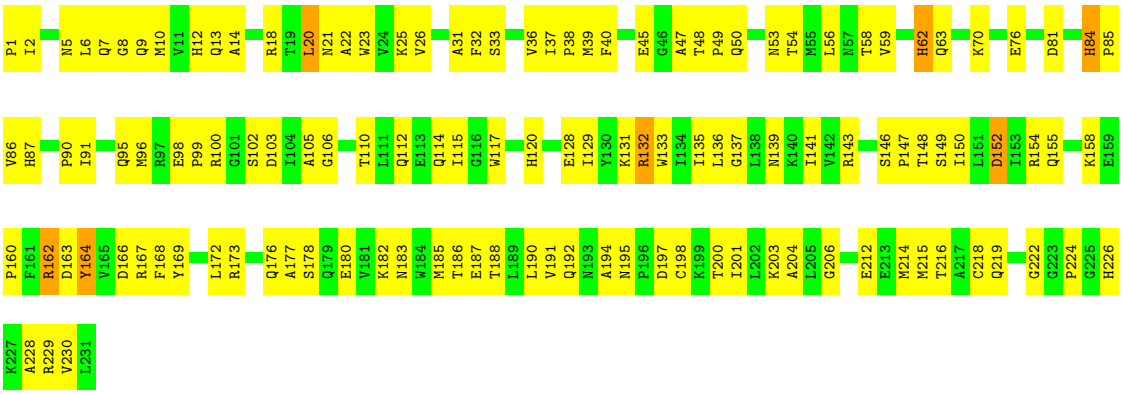




• Molecule 1: capsid protein

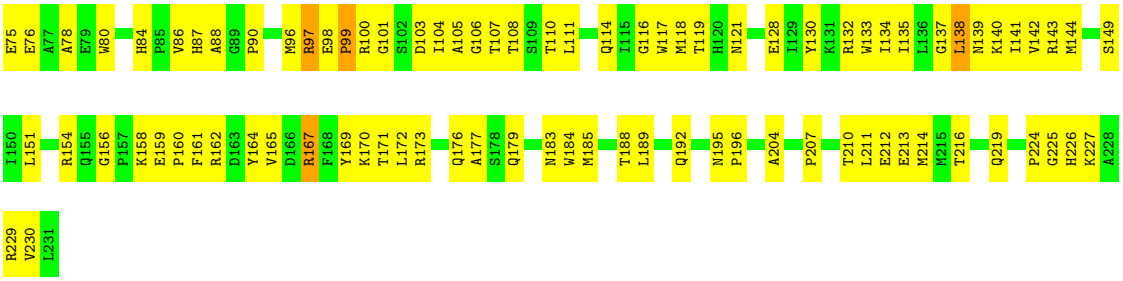
Chain 3b:





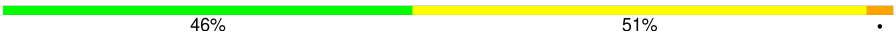
• Molecule 1: capsid protein

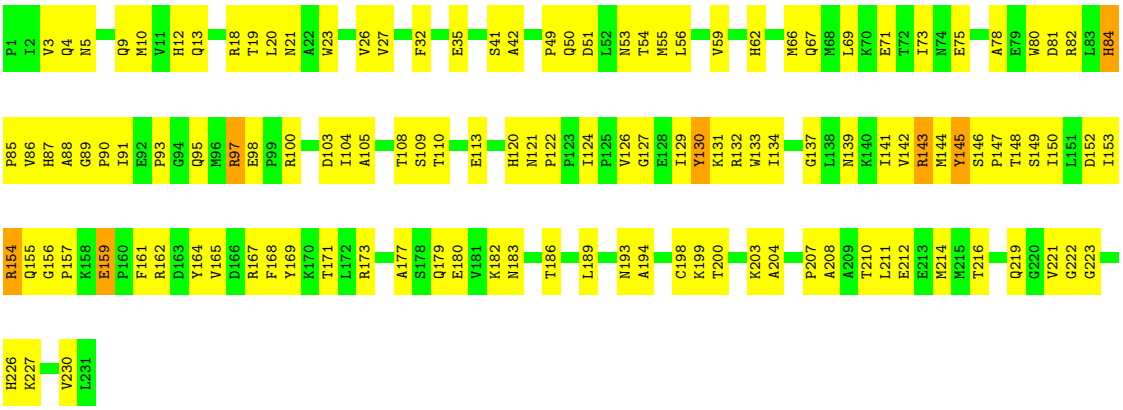
Chain 3c:



• Molecule 1: capsid protein

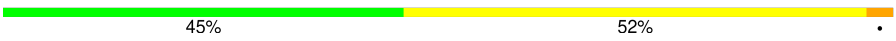
Chain 3d:

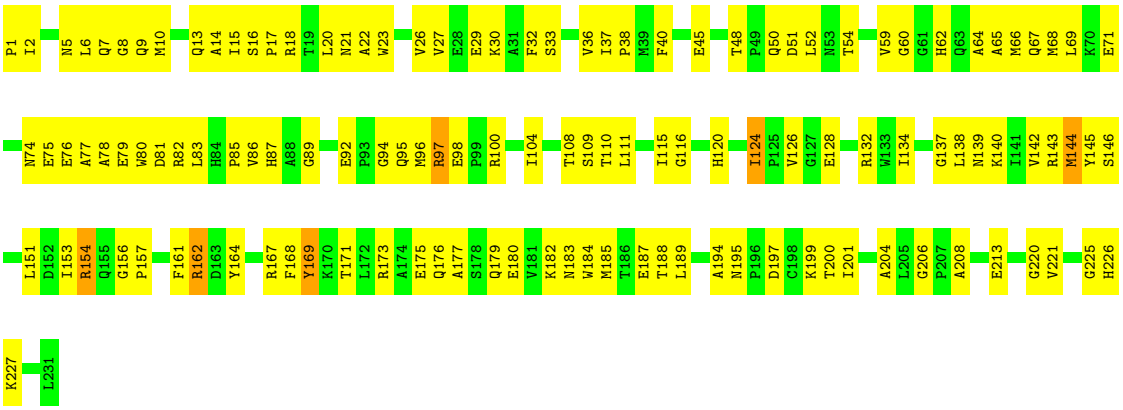




• Molecule 1: capsid protein

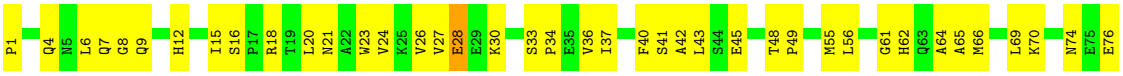
Chain 3e:

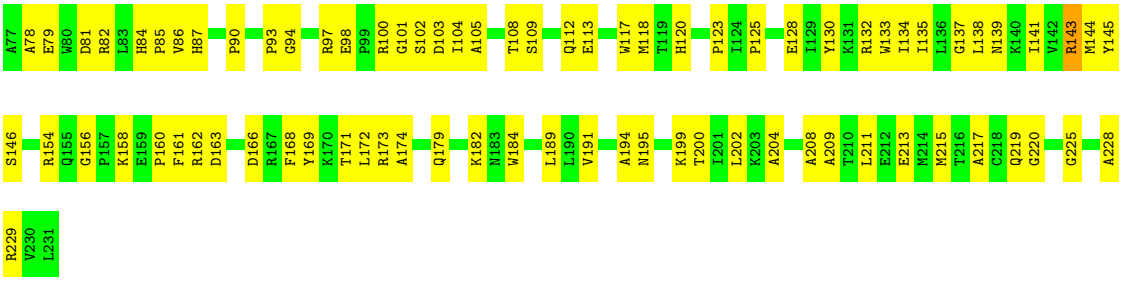




• Molecule 1: capsid protein

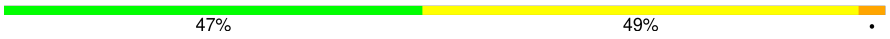
Chain 3f:

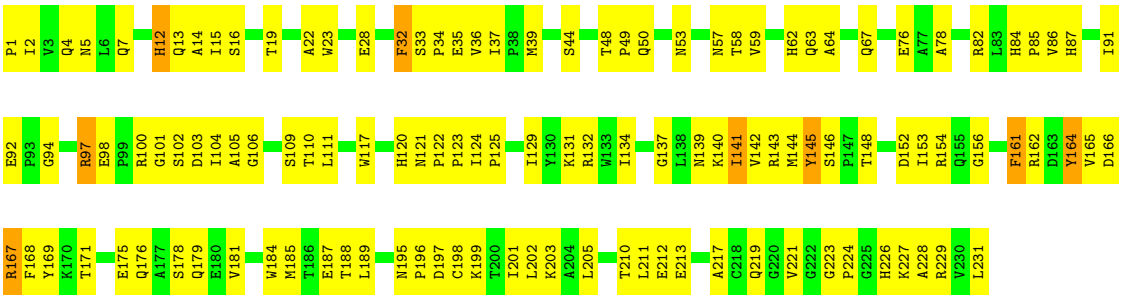




• Molecule 1: capsid protein

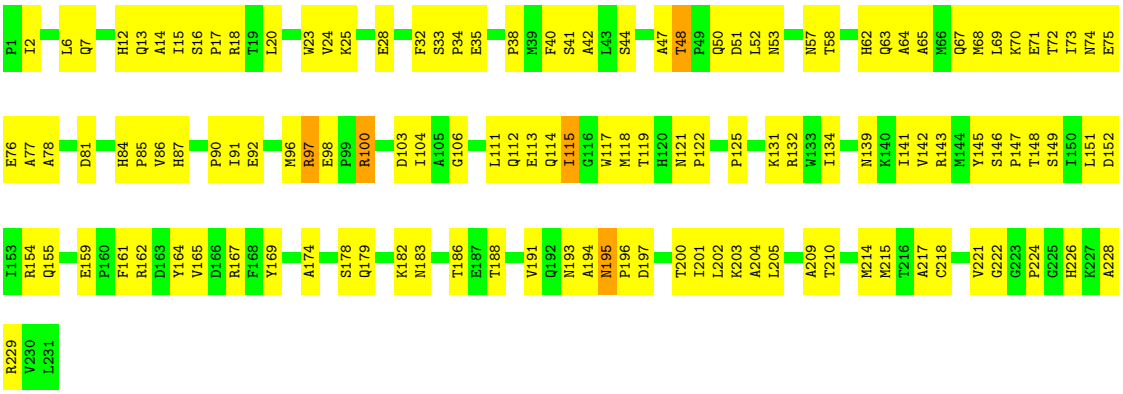
Chain 3g:





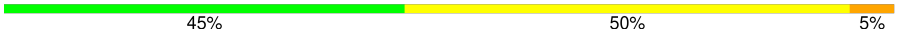
• Molecule 1: capsid protein

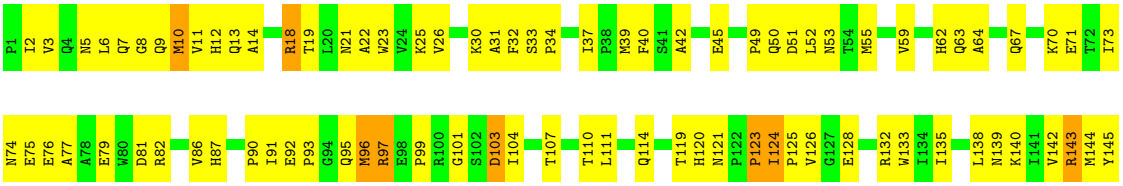
Chain 3h:

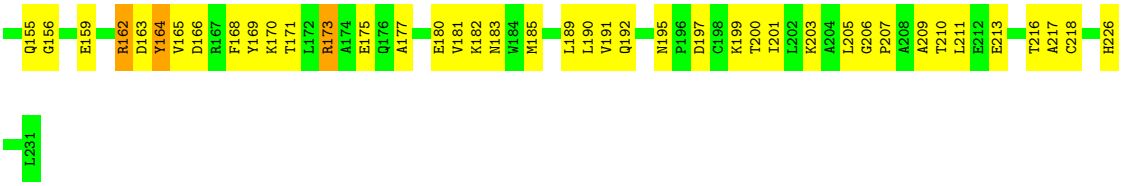


• Molecule 1: capsid protein

Chain 3i:

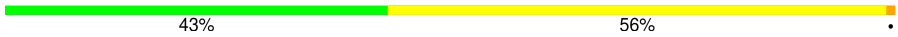


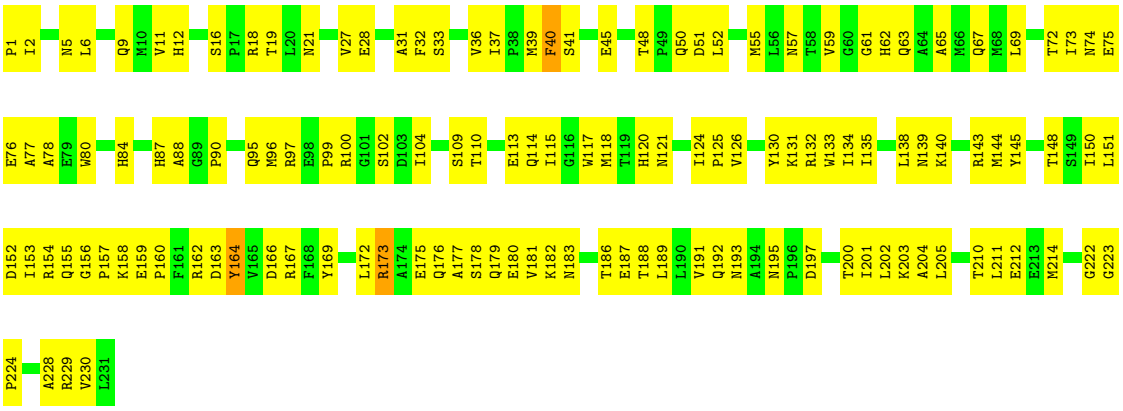




• Molecule 1: capsid protein

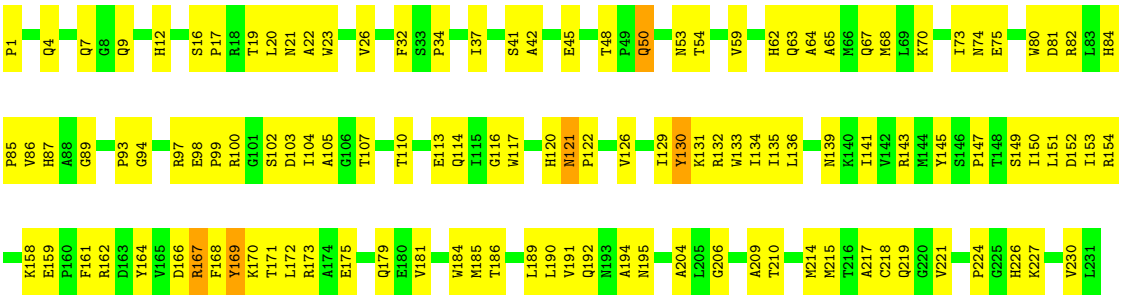
Chain 3j:





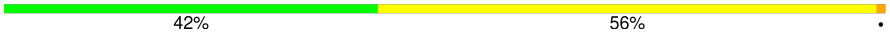
• Molecule 1: capsid protein

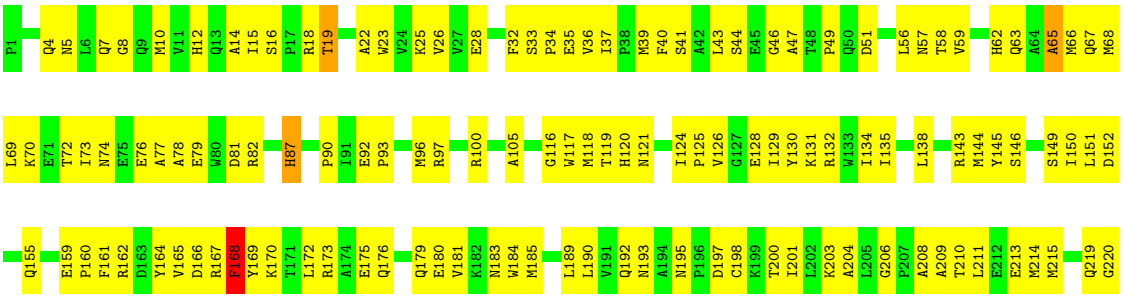
Chain 3k:



• Molecule 1: capsid protein

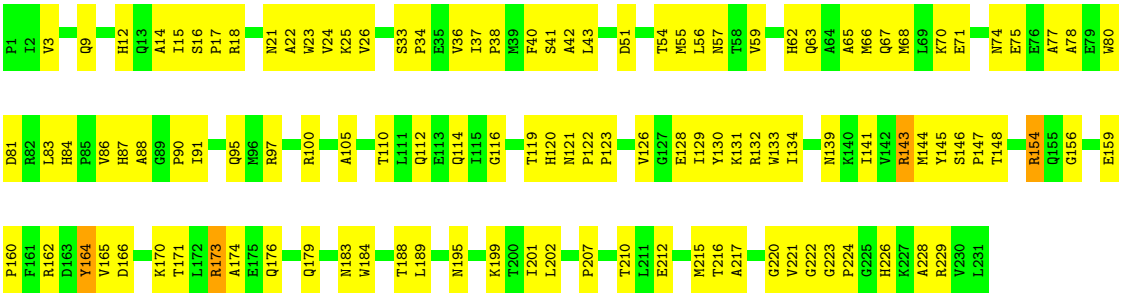
Chain 3l:





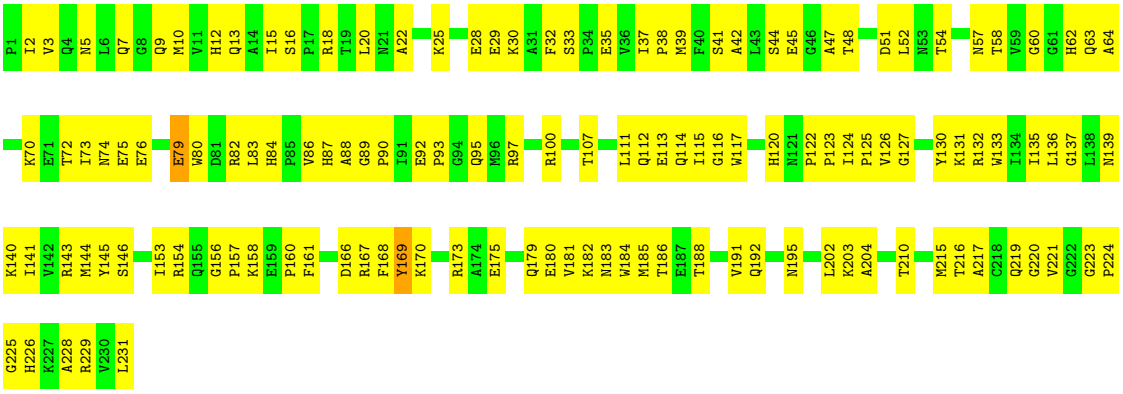
• Molecule 1: capsid protein

Chain 3m:



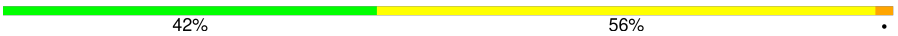
• Molecule 1: capsid protein

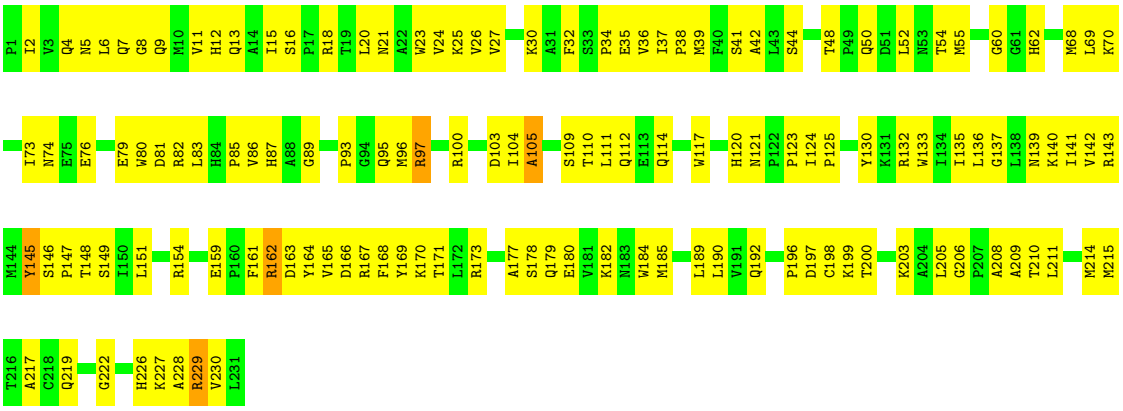
Chain 3n:



• Molecule 1: capsid protein

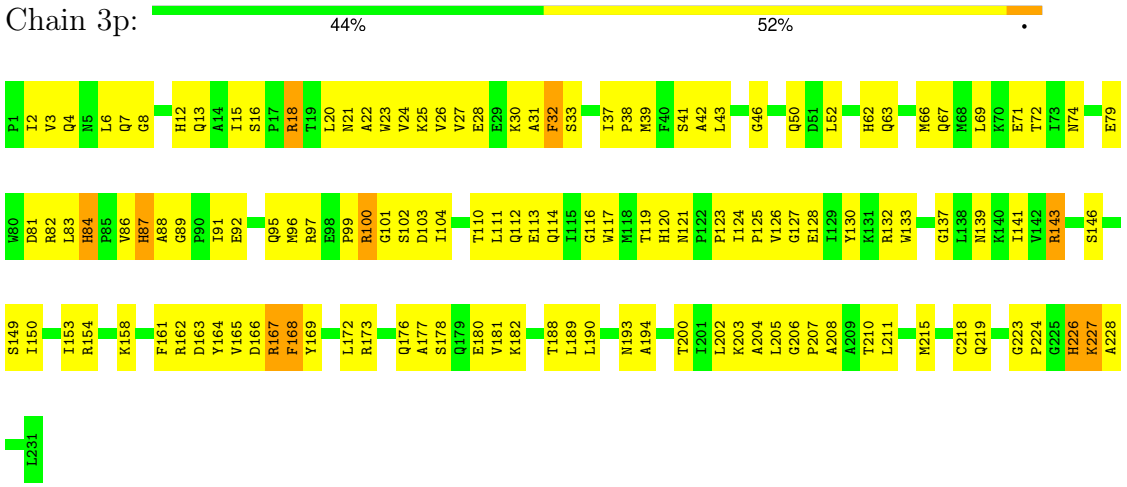
Chain 3o:





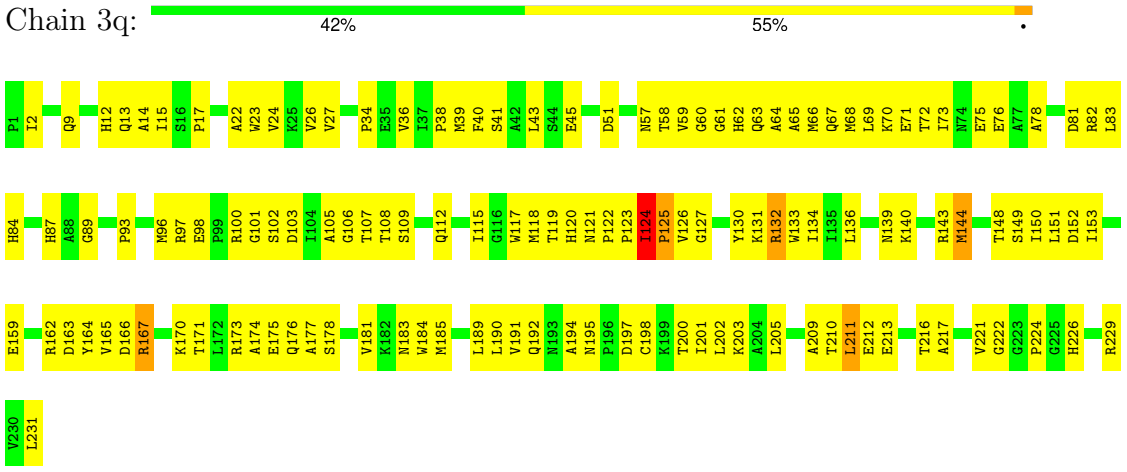
• Molecule 1: capsid protein

Chain 3p:



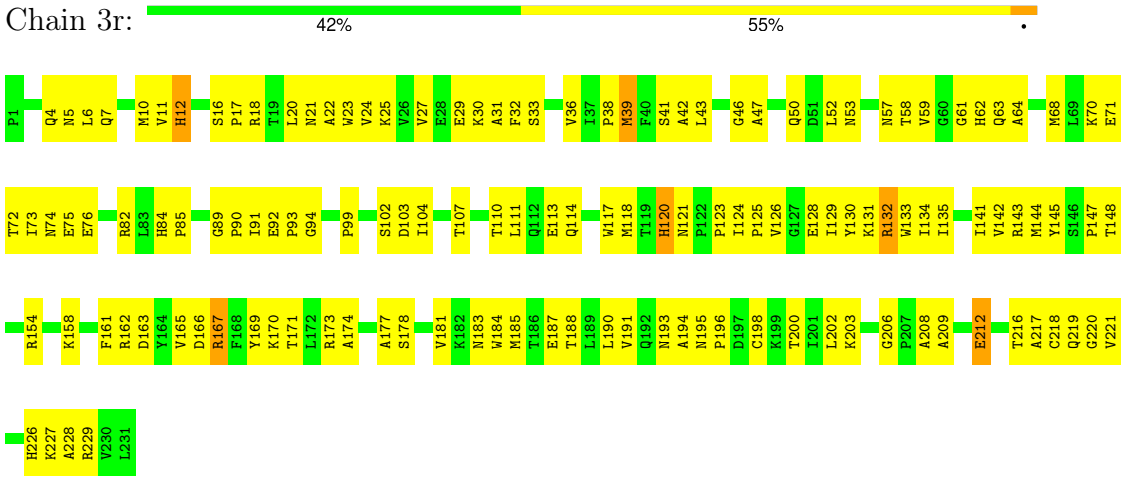
• Molecule 1: capsid protein

Chain 3q:



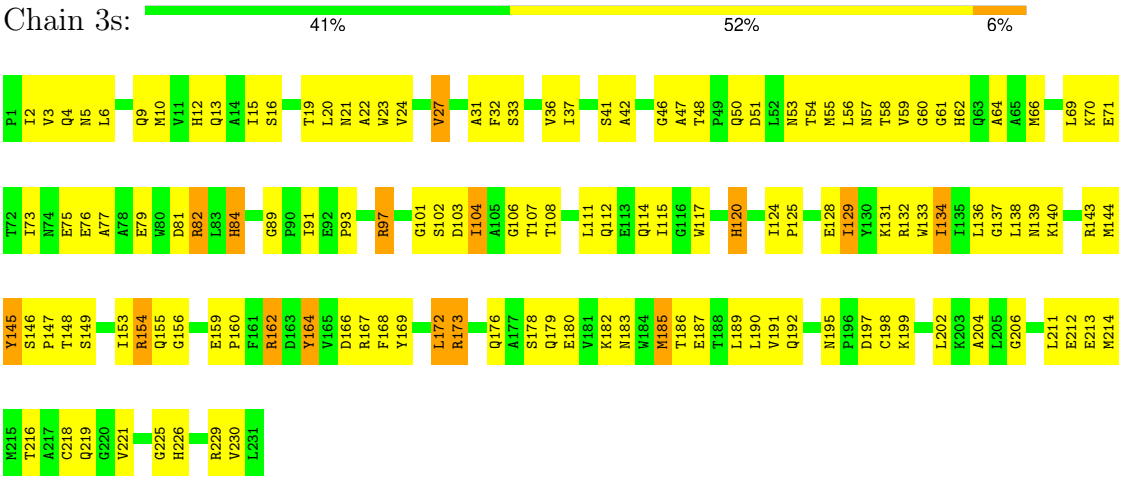
• Molecule 1: capsid protein

Chain 3r:



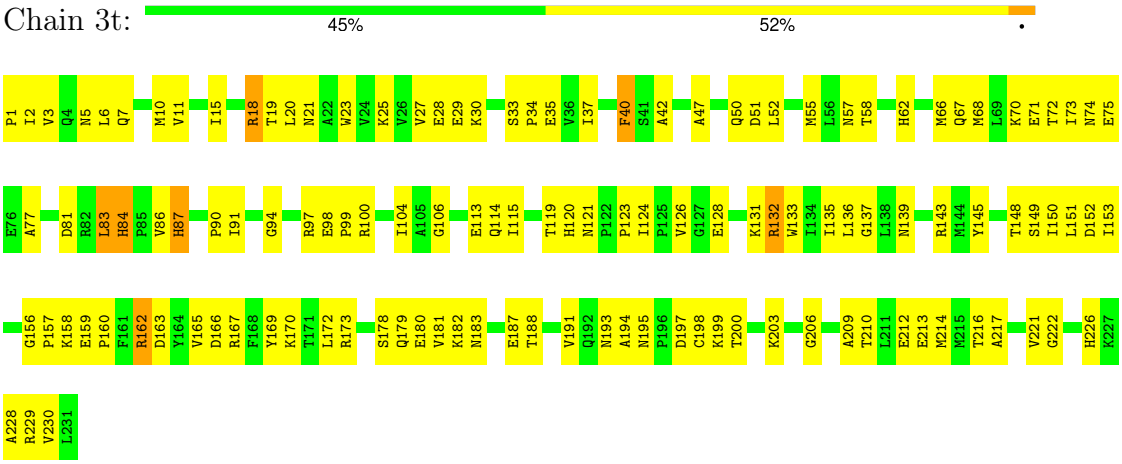
• Molecule 1: capsid protein

Chain 3s:



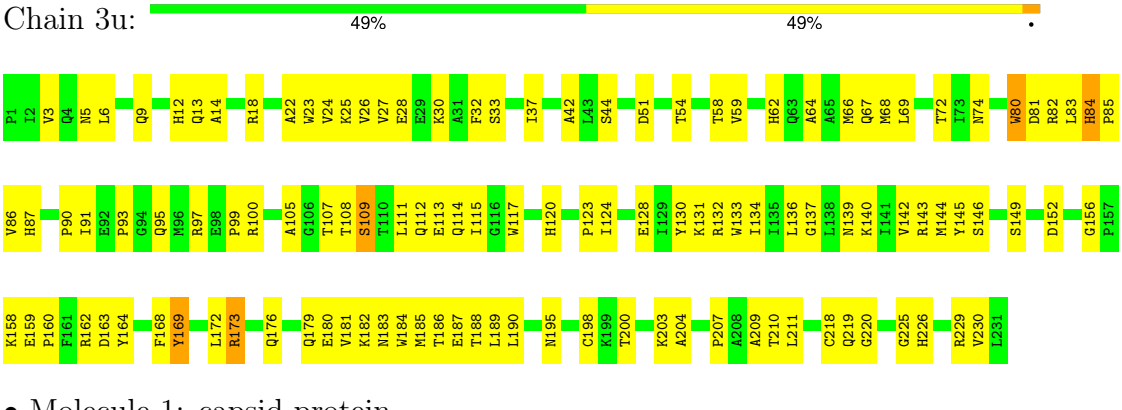
• Molecule 1: capsid protein

Chain 3t:



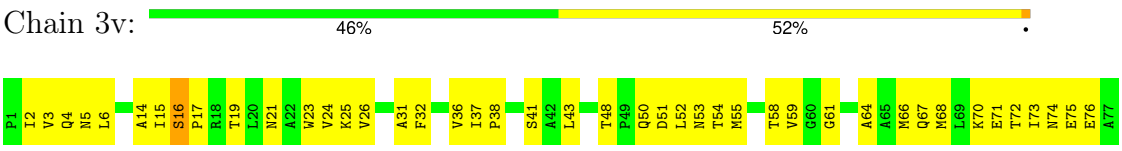
• Molecule 1: capsid protein

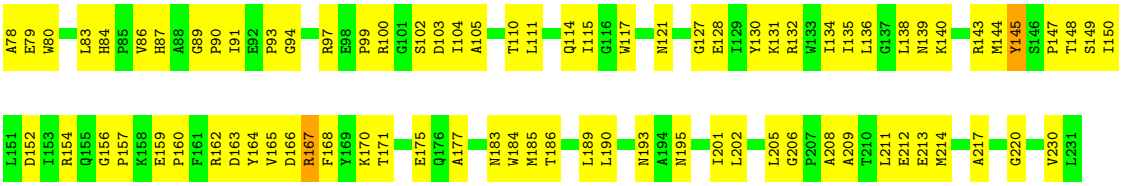
Chain 3u:



• Molecule 1: capsid protein

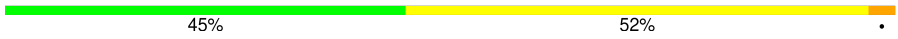
Chain 3v:

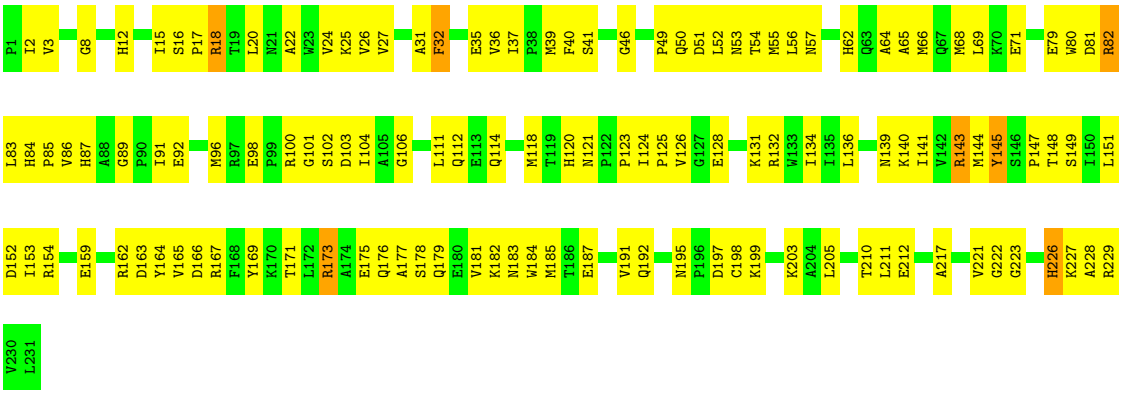




• Molecule 1: capsid protein

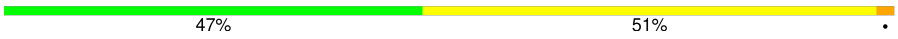
Chain 3w:

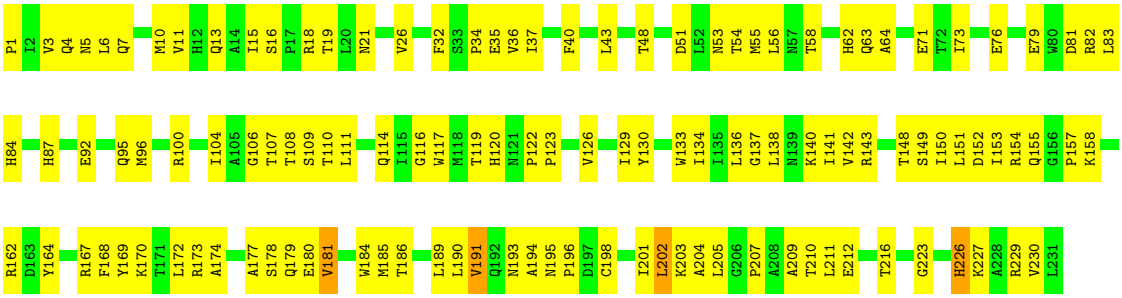




• Molecule 1: capsid protein

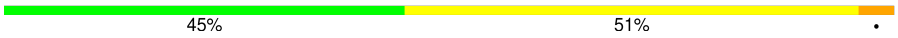
Chain 3x:

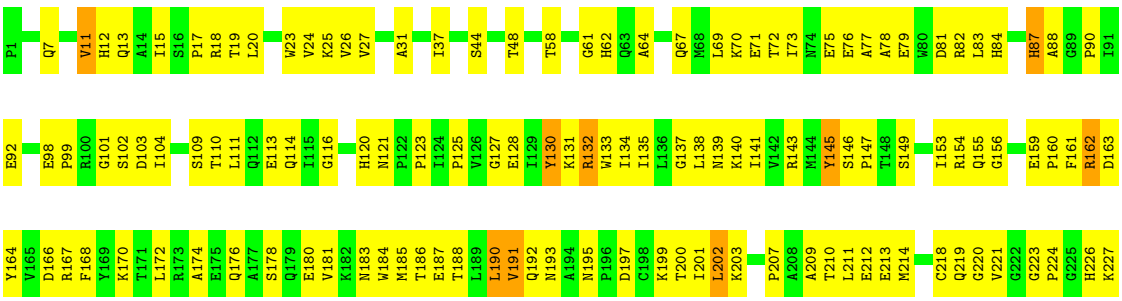




• Molecule 1: capsid protein

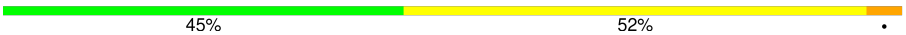
Chain 3y:





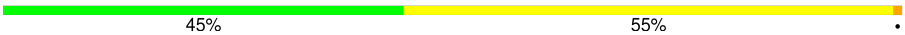
• Molecule 1: capsid protein

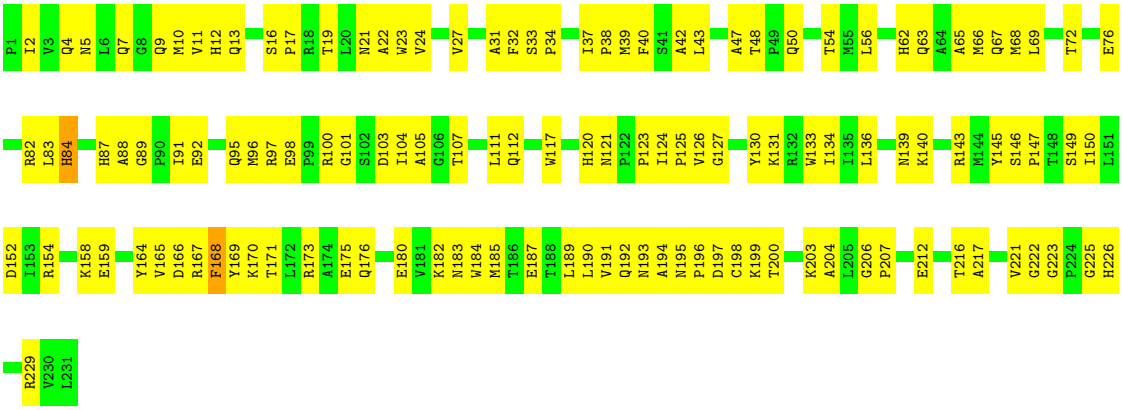
Chain 3z:



• Molecule 1: capsid protein

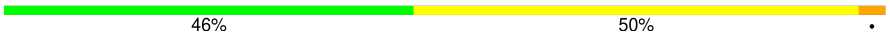
Chain 3A:

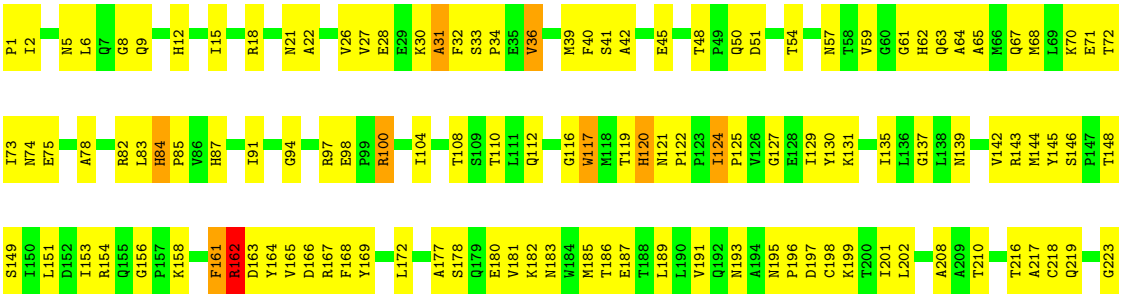




• Molecule 1: capsid protein

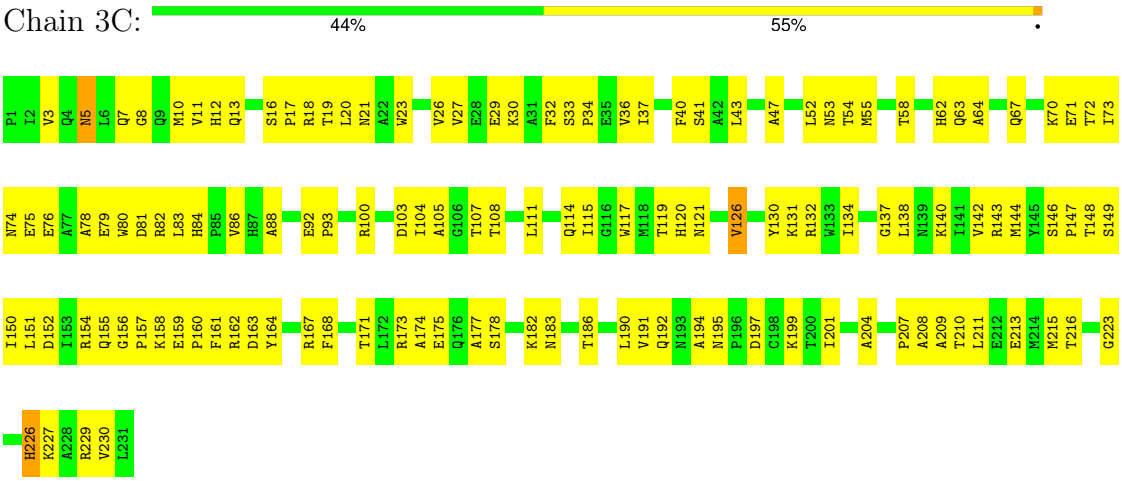
Chain 3B:





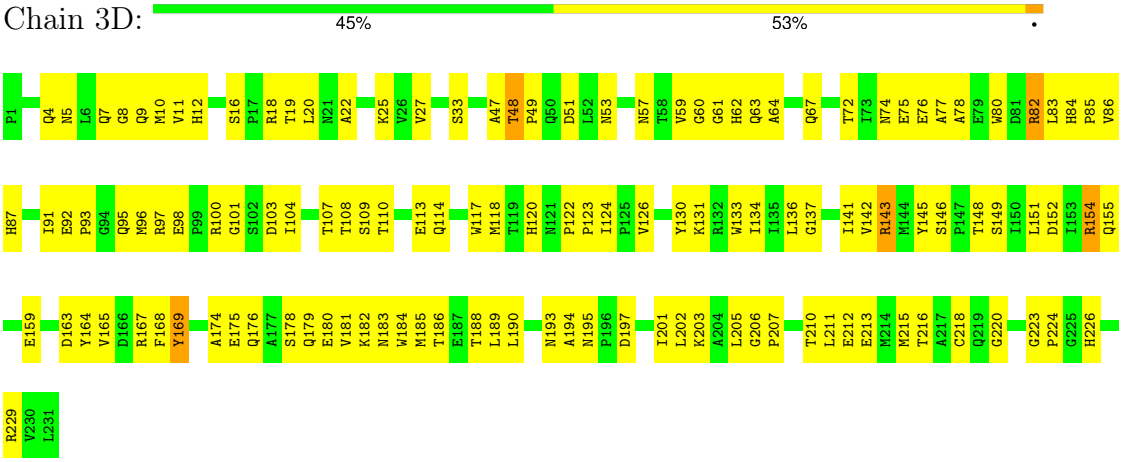
• Molecule 1: capsid protein

Chain 3C:



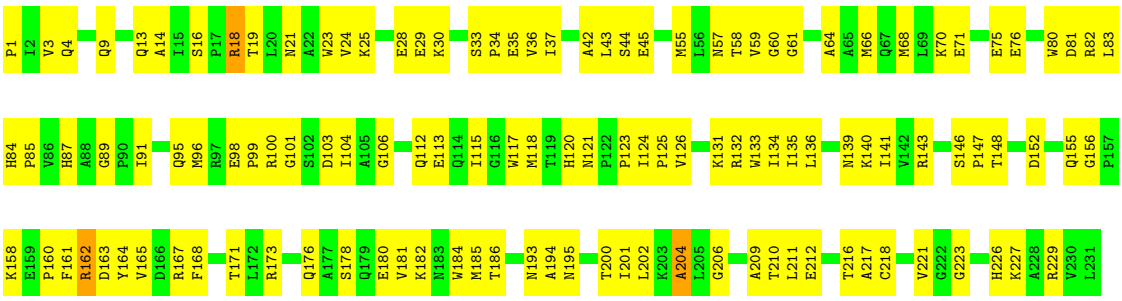
• Molecule 1: capsid protein

Chain 3D:



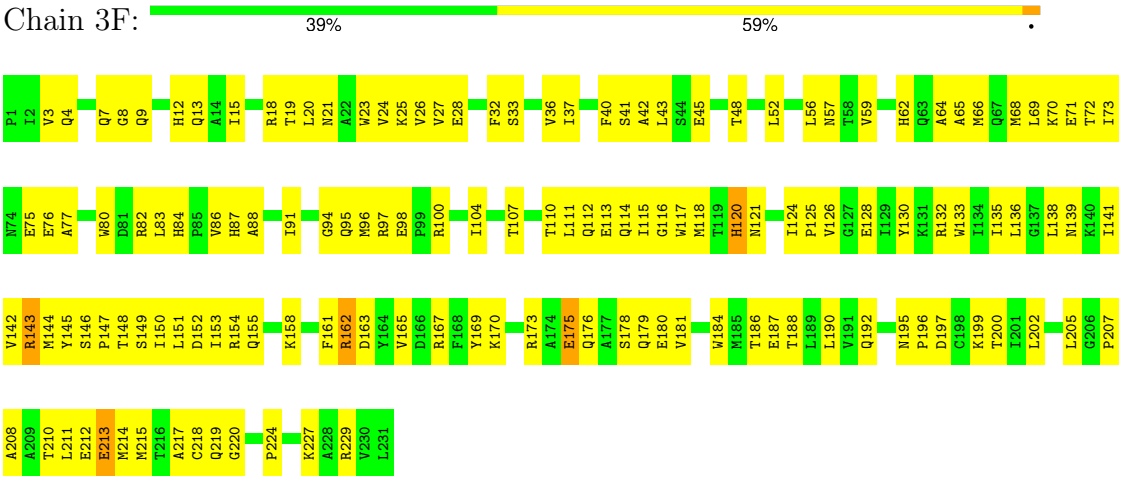
• Molecule 1: capsid protein

Chain 3E:



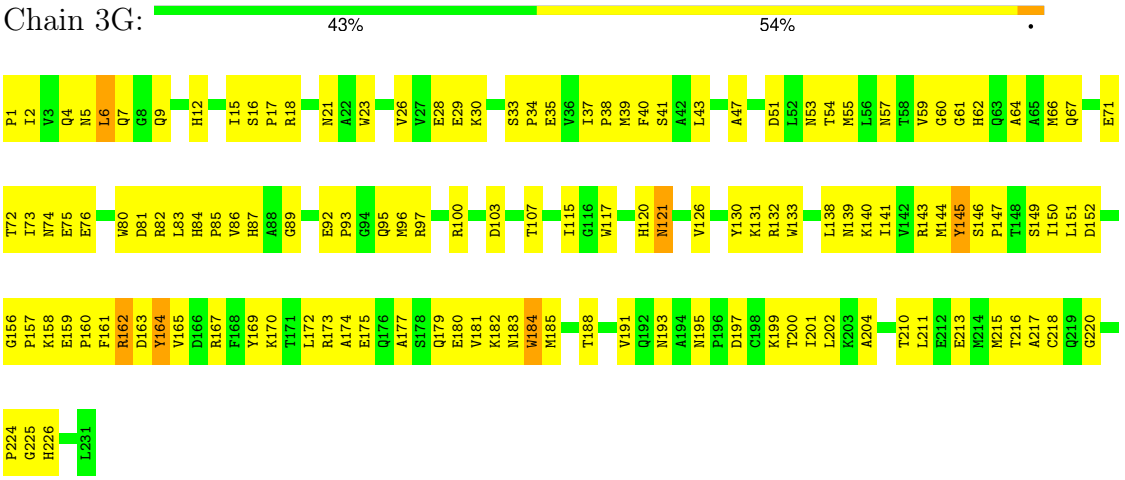
• Molecule 1: capsid protein

Chain 3F:



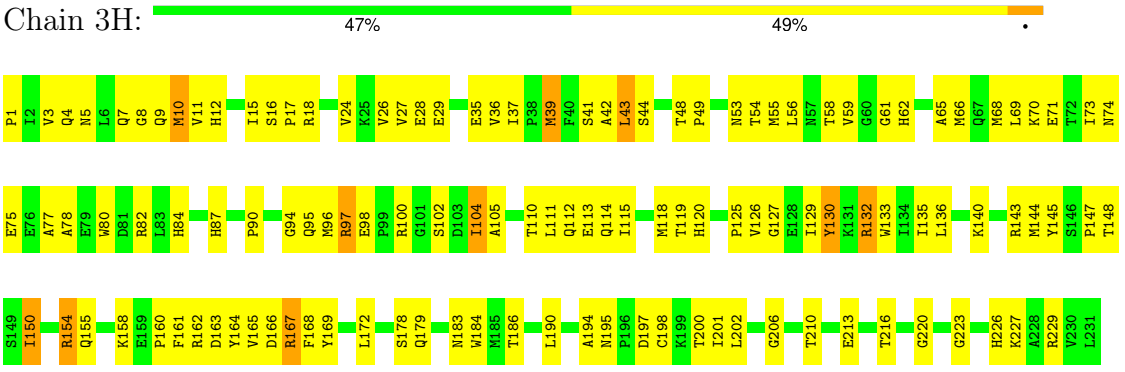
• Molecule 1: capsid protein

Chain 3G:



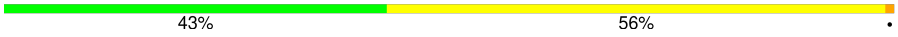
• Molecule 1: capsid protein

Chain 3H:



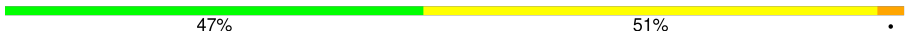
• Molecule 1: capsid protein

Chain 3I:



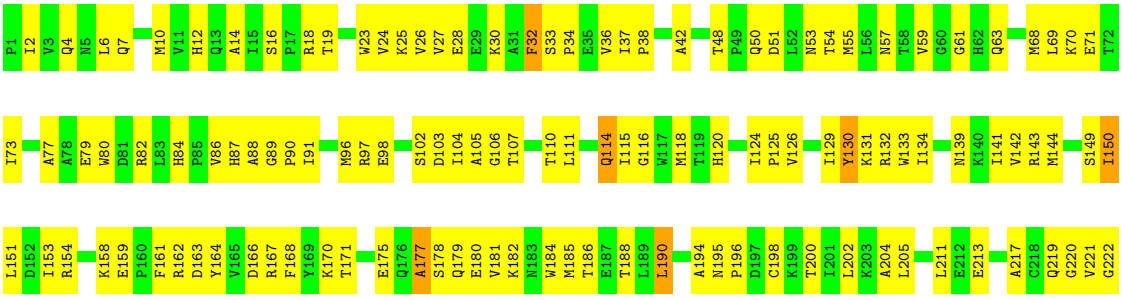
• Molecule 1: capsid protein

Chain 3J:



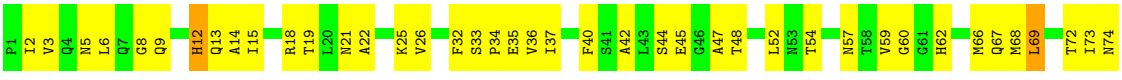
• Molecule 1: capsid protein

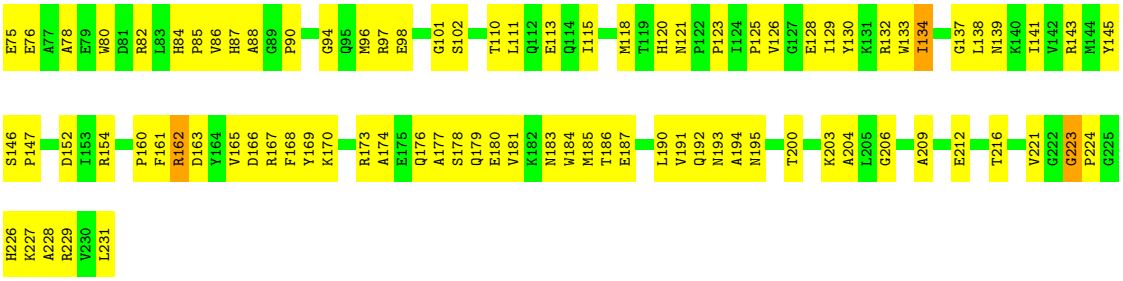
Chain 3K:



• Molecule 1: capsid protein

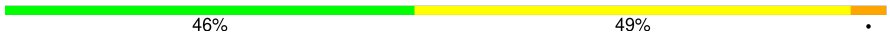
Chain 3L:

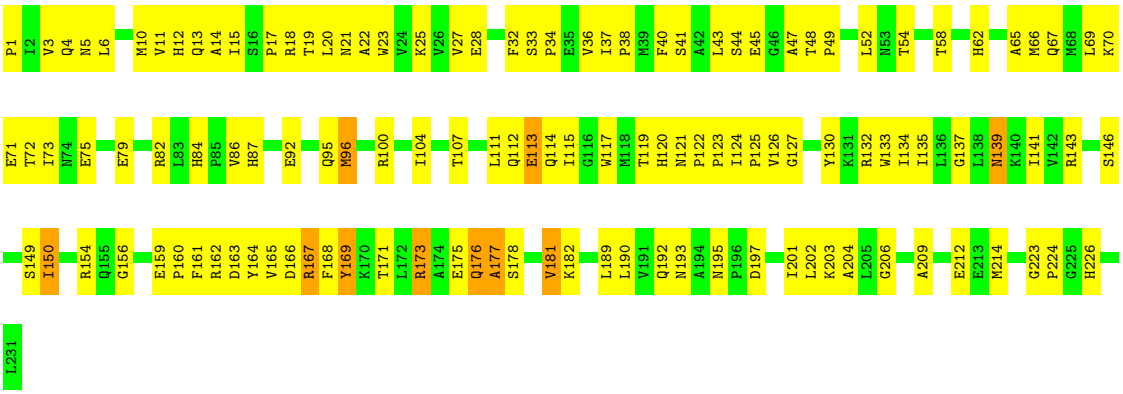




• Molecule 1: capsid protein

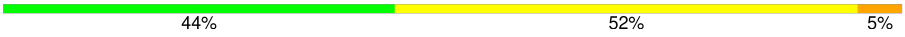
Chain 3M:

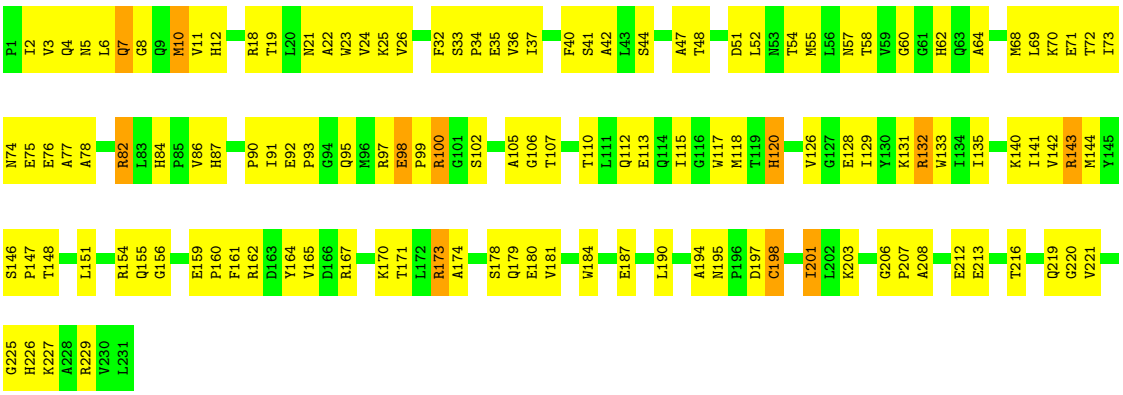




• Molecule 1: capsid protein

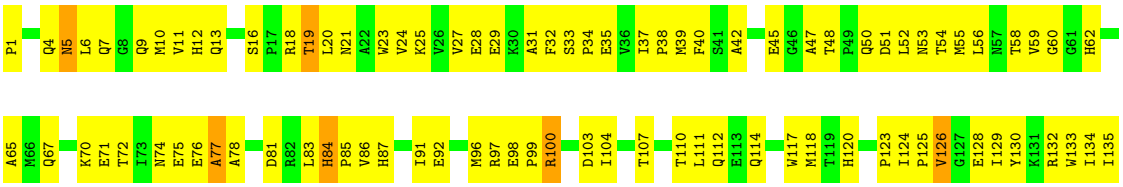
Chain 3N:

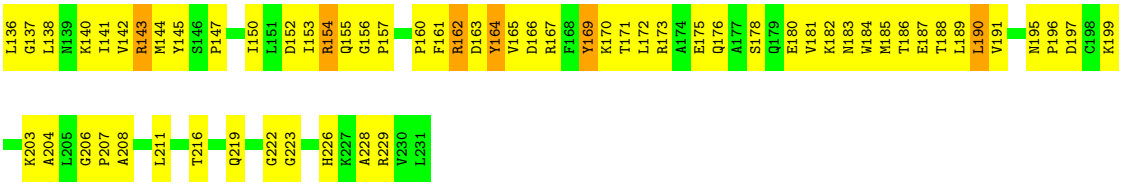




• Molecule 1: capsid protein

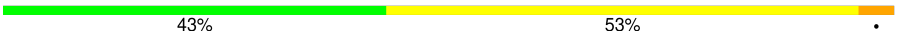
Chain 3O:

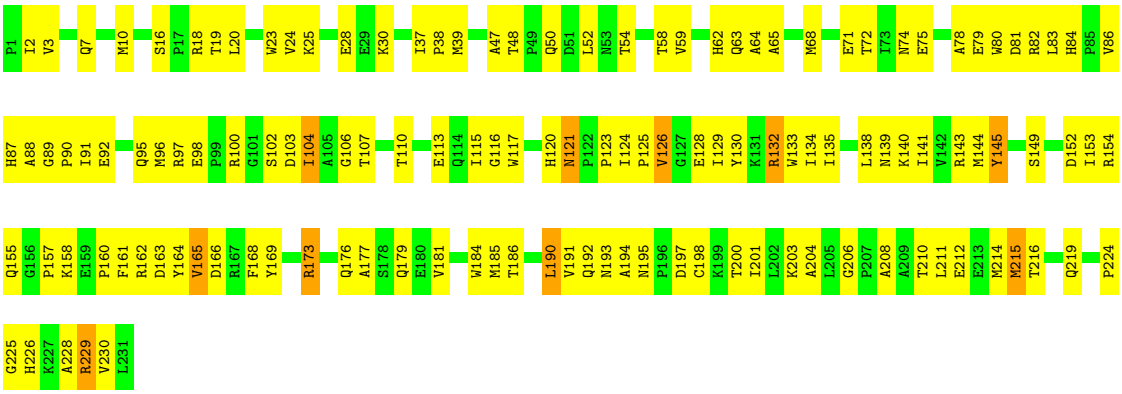




• Molecule 1: capsid protein

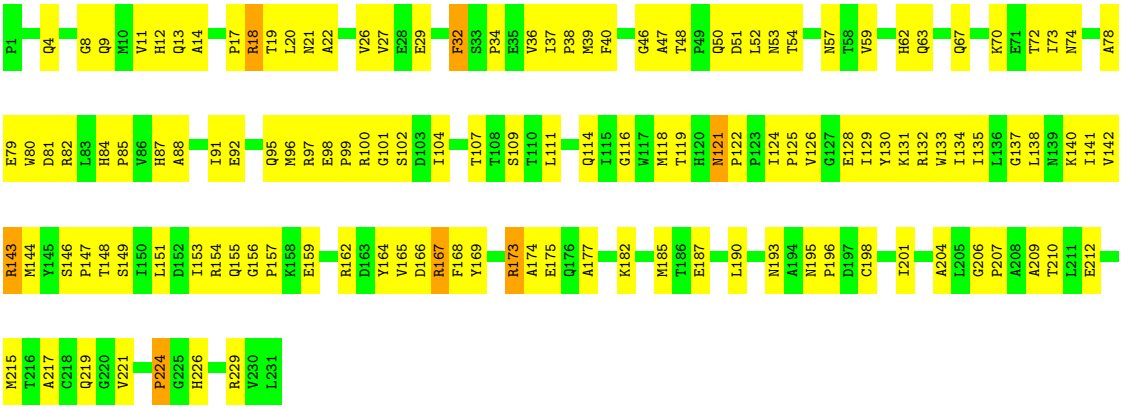
Chain 3P:





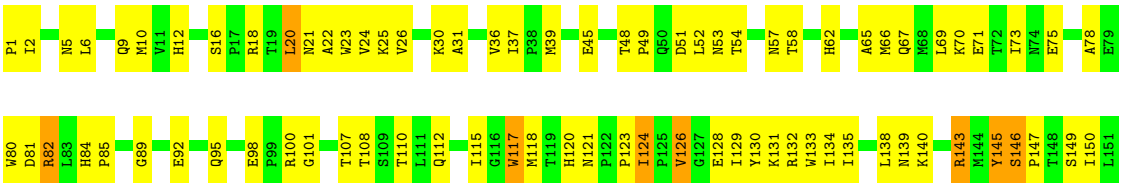
• Molecule 1: capsid protein

Chain 3Q:



• Molecule 1: capsid protein

Chain 3R:

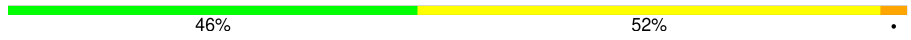


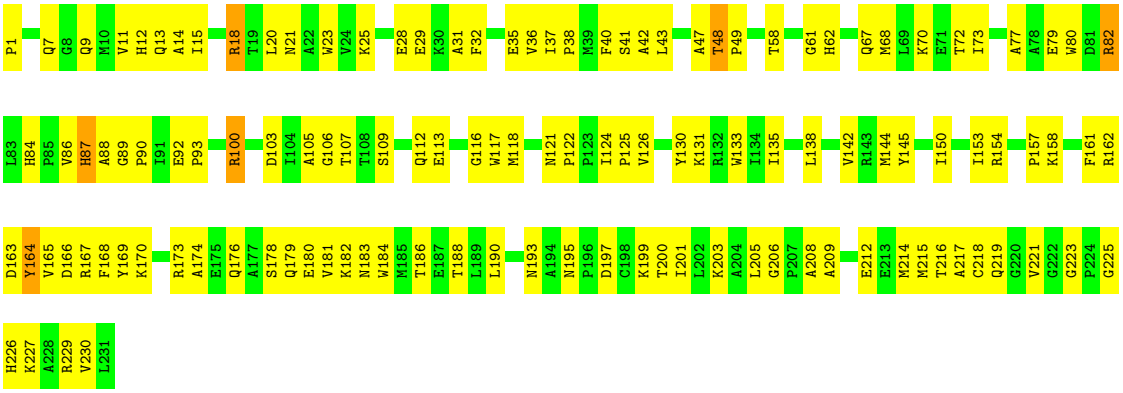
• Molecule 1: capsid protein

Chain 3S:

• Molecule 1: capsid protein

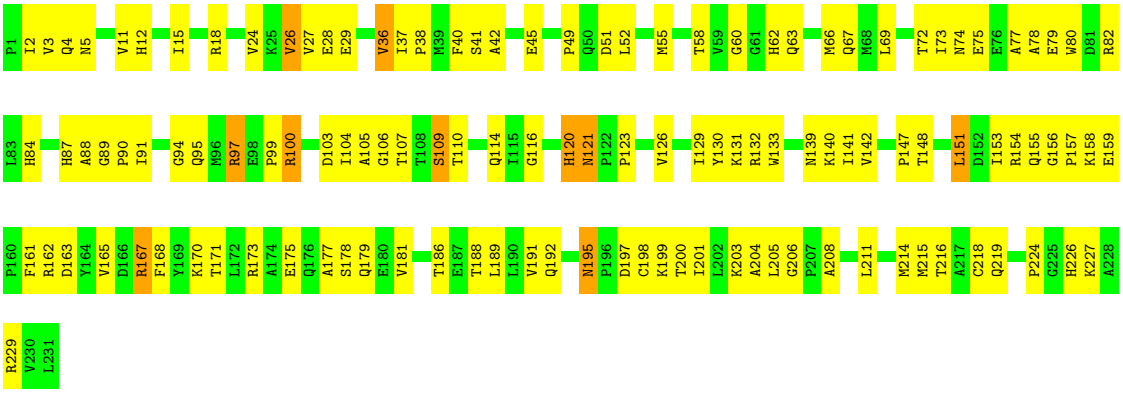
Chain 3T:





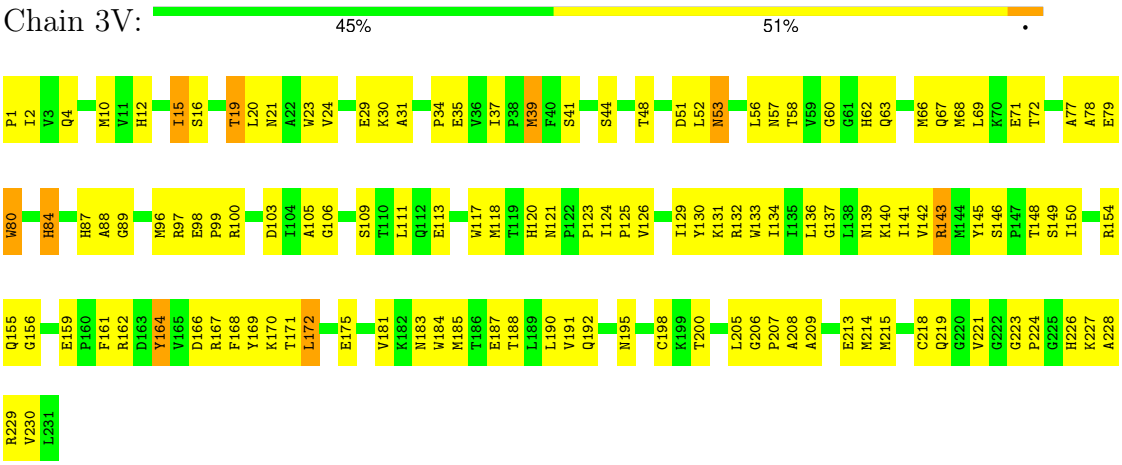
• Molecule 1: capsid protein

Chain 3U:



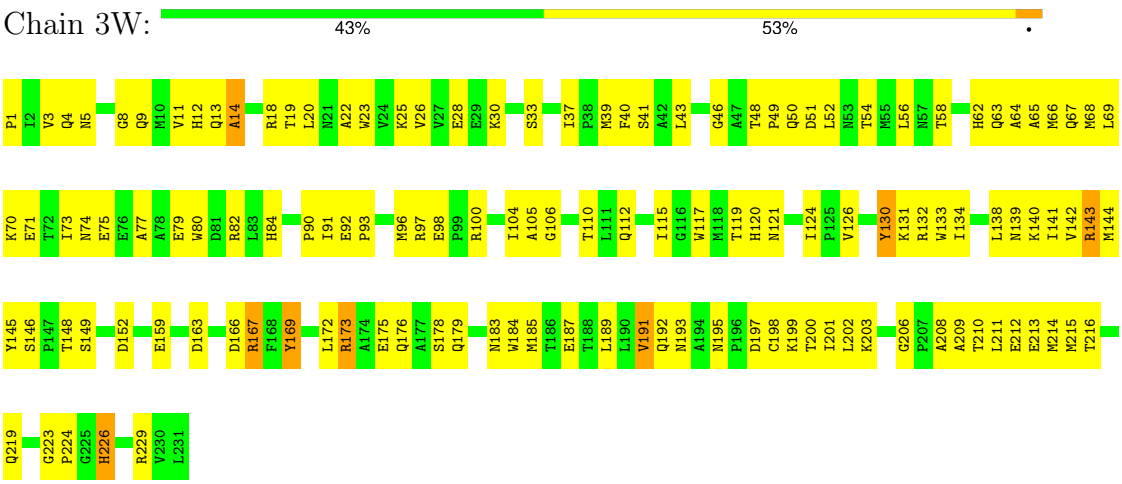
• Molecule 1: capsid protein

Chain 3V:



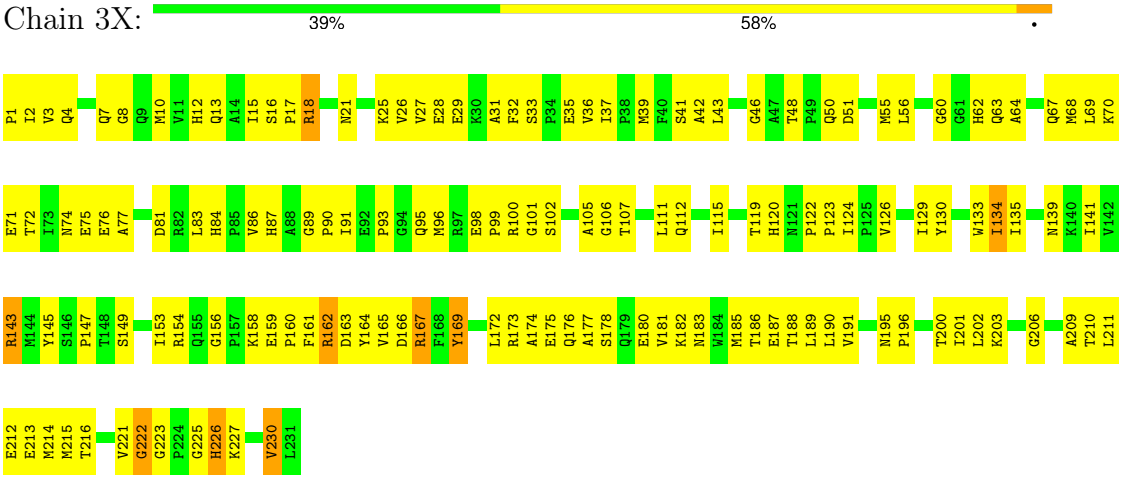
• Molecule 1: capsid protein

Chain 3W:



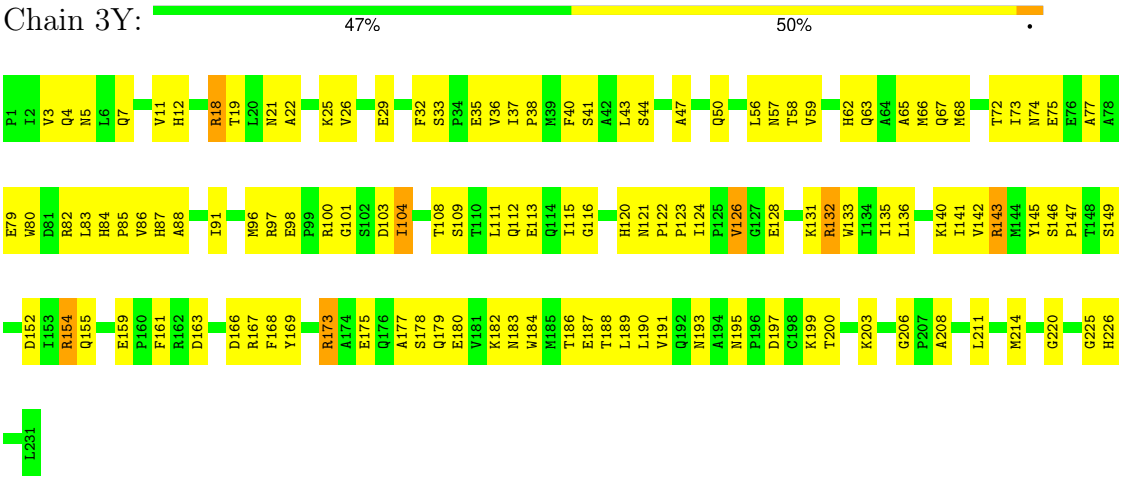
• Molecule 1: capsid protein

Chain 3X:



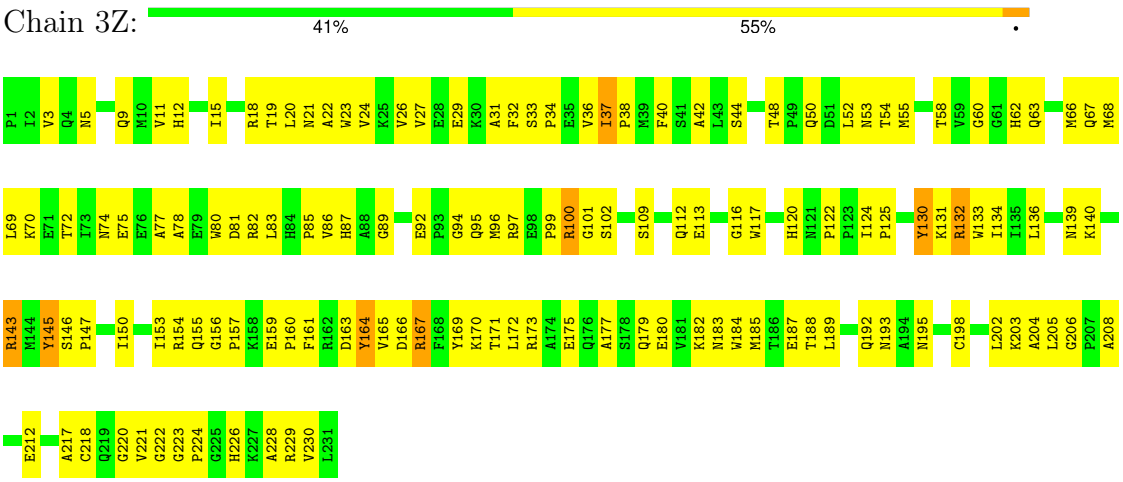
• Molecule 1: capsid protein

Chain 3Y:



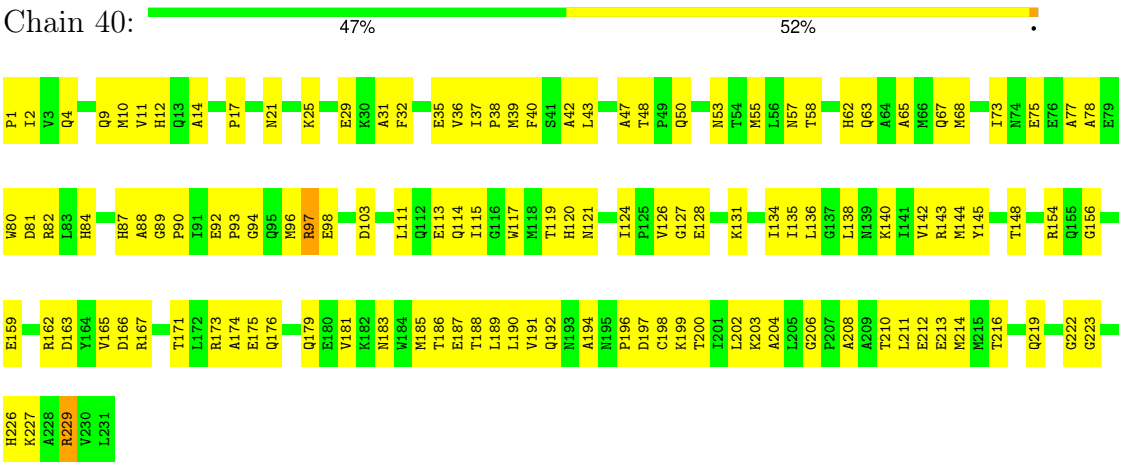
• Molecule 1: capsid protein

Chain 3Z:



• Molecule 1: capsid protein

Chain 40:

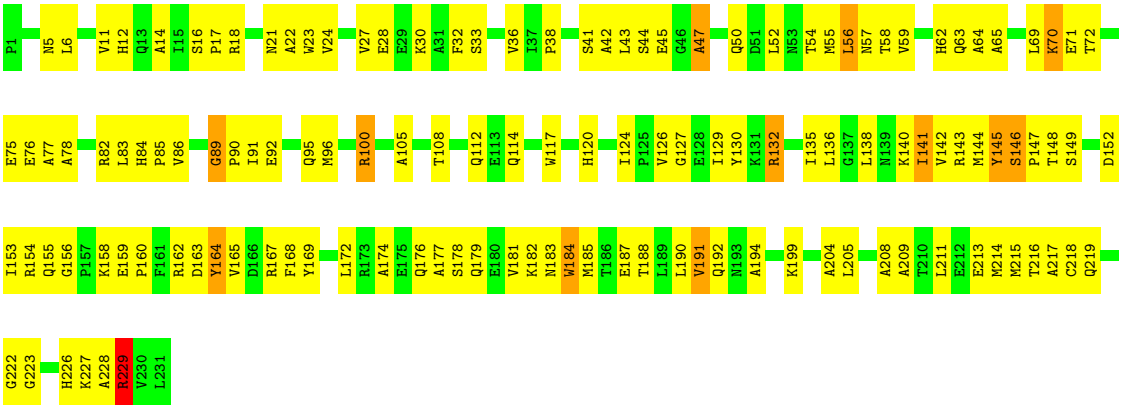


• Molecule 1: capsid protein

Chain 41:

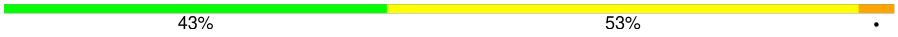
• Molecule 1: capsid protein

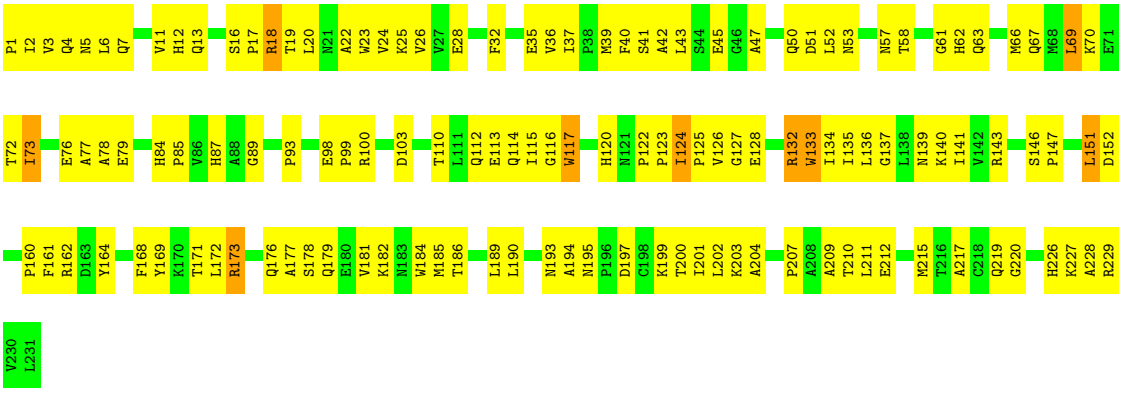
Chain 42:



• Molecule 1: capsid protein

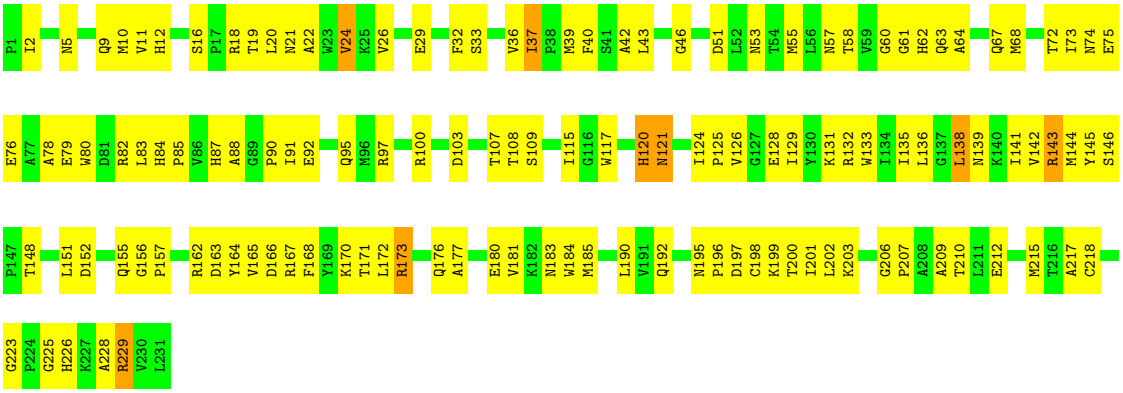
Chain 43:





• Molecule 1: capsid protein

Chain 44:

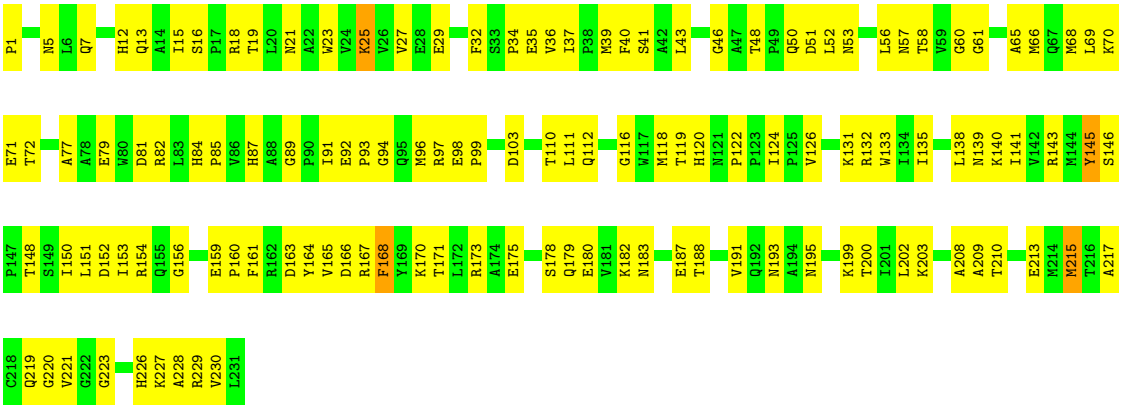


• Molecule 1: capsid protein

Chain 45:

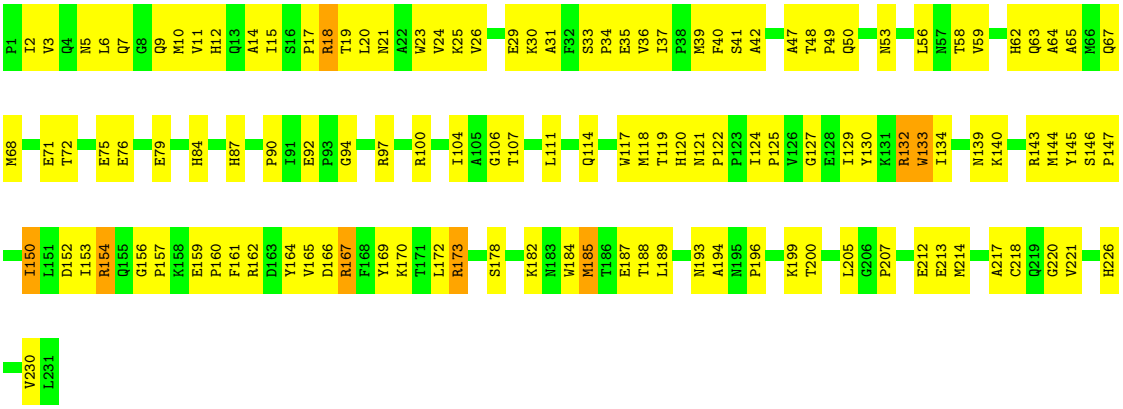
• Molecule 1: capsid protein

Chain 46:



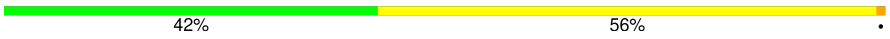
• Molecule 1: capsid protein

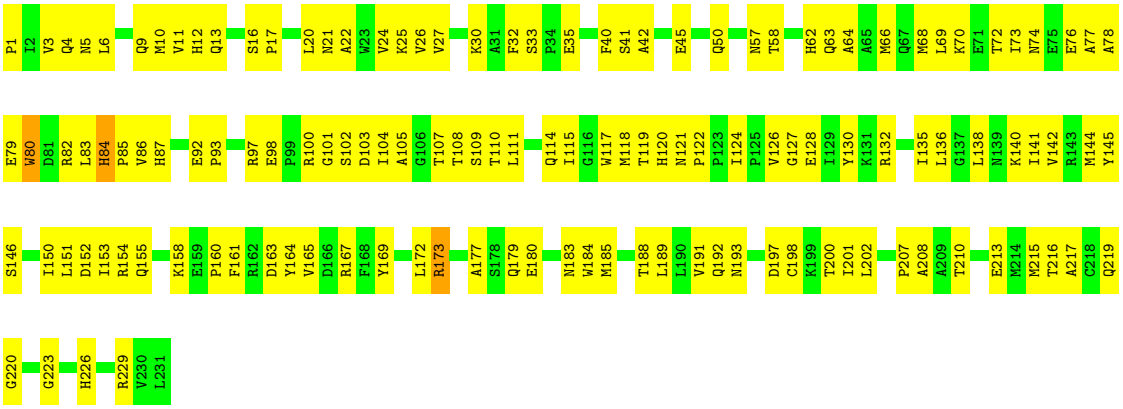
Chain 47:



• Molecule 1: capsid protein

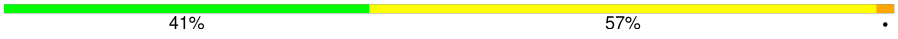
Chain 48:





• Molecule 1: capsid protein

Chain 49:

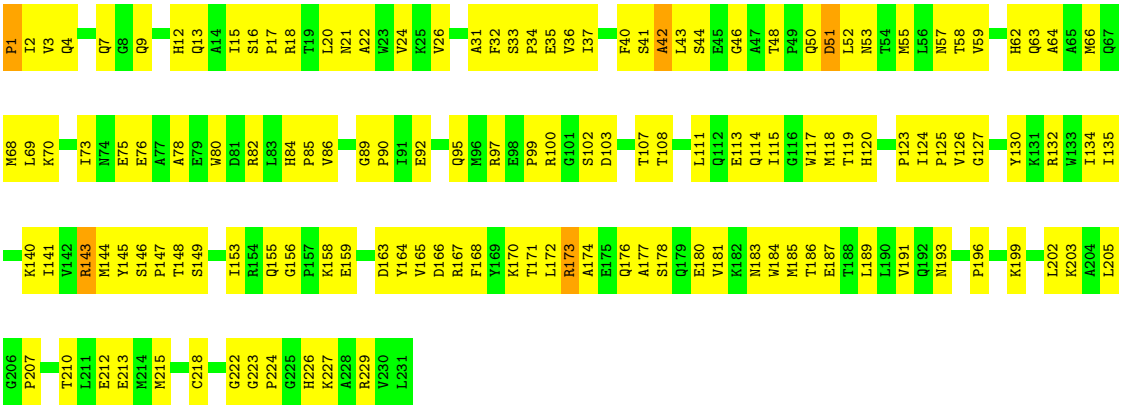


• Molecule 1: capsid protein

Chain 4a:

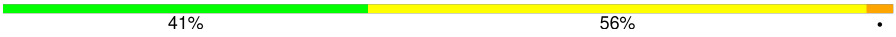
• Molecule 1: capsid protein

Chain 4b:



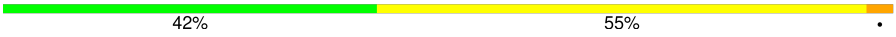
• Molecule 1: capsid protein

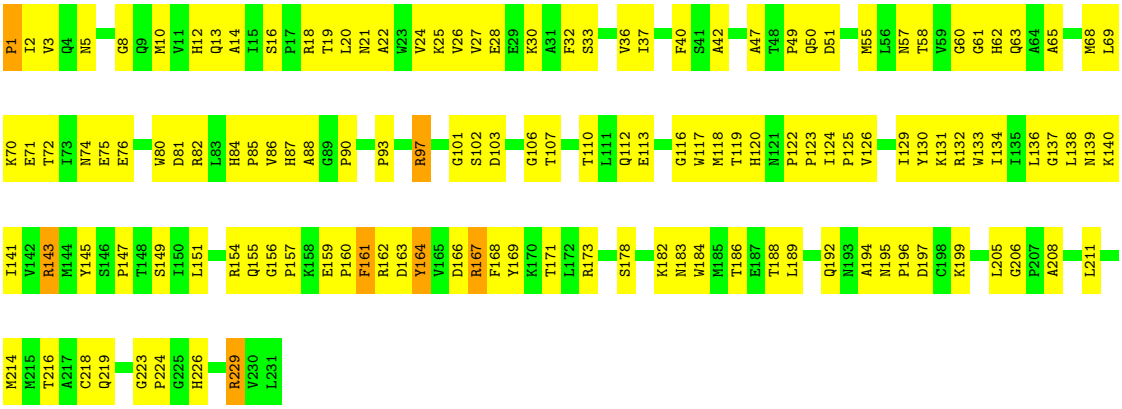
Chain 4c:



• Molecule 1: capsid protein

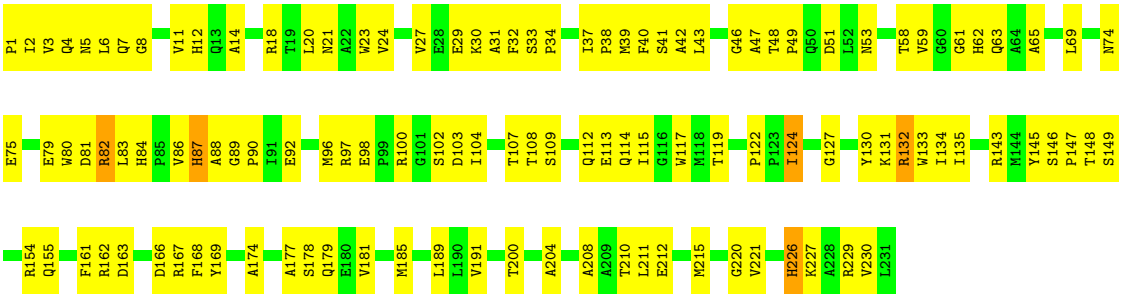
Chain 4d:





• Molecule 1: capsid protein

Chain 4e:

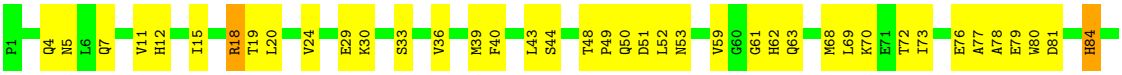


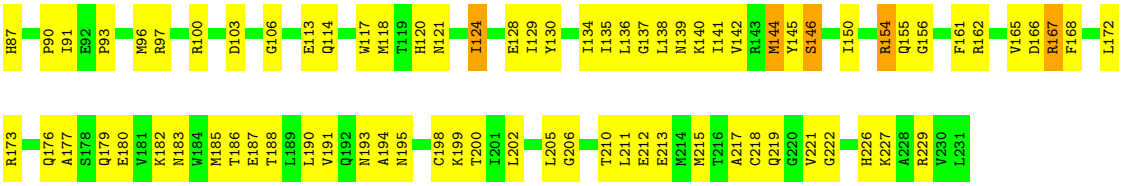
• Molecule 1: capsid protein

Chain 4f:

• Molecule 1: capsid protein

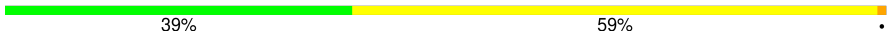
Chain 4g:





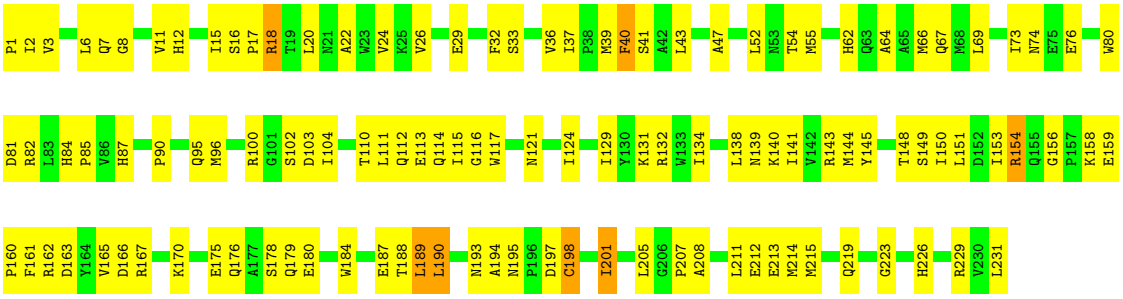
• Molecule 1: capsid protein

Chain 4h:



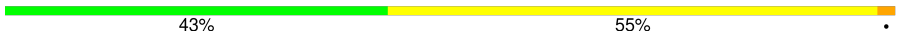
• Molecule 1: capsid protein

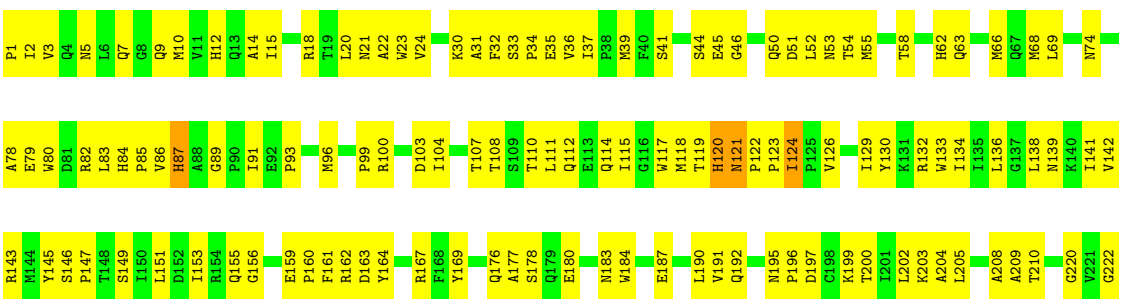
Chain 4i:



• Molecule 1: capsid protein

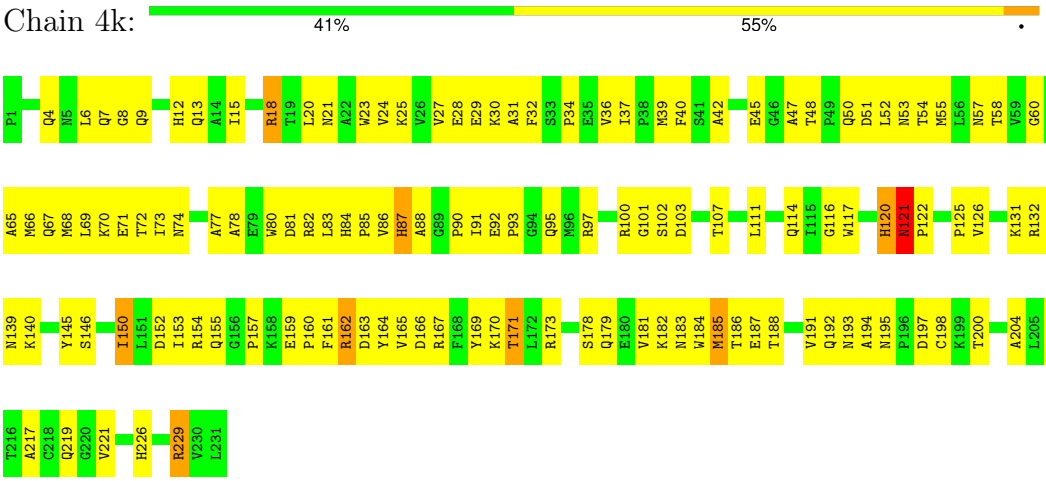
Chain 4j:





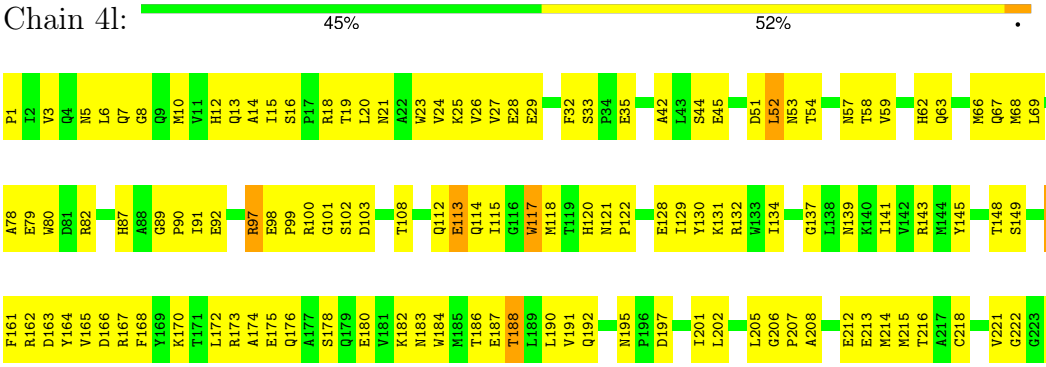
• Molecule 1: capsid protein

Chain 4k:



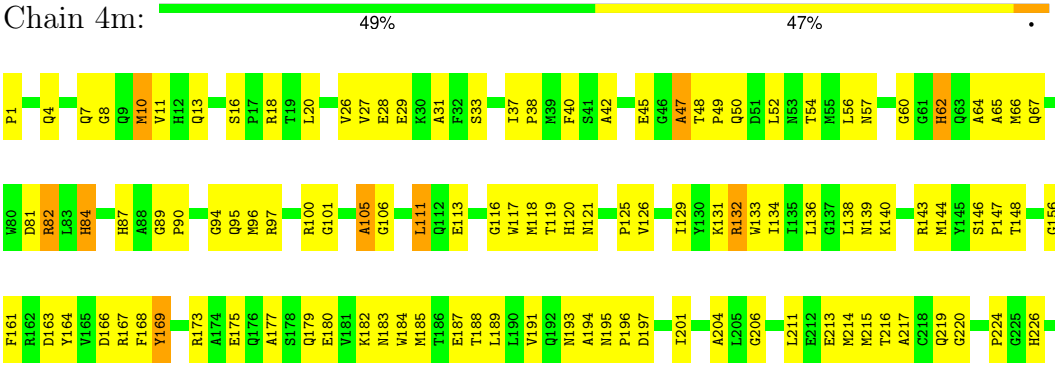
• Molecule 1: capsid protein

Chain 4l:



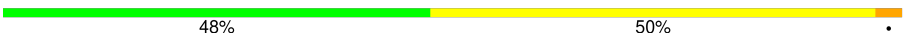
• Molecule 1: capsid protein

Chain 4m:



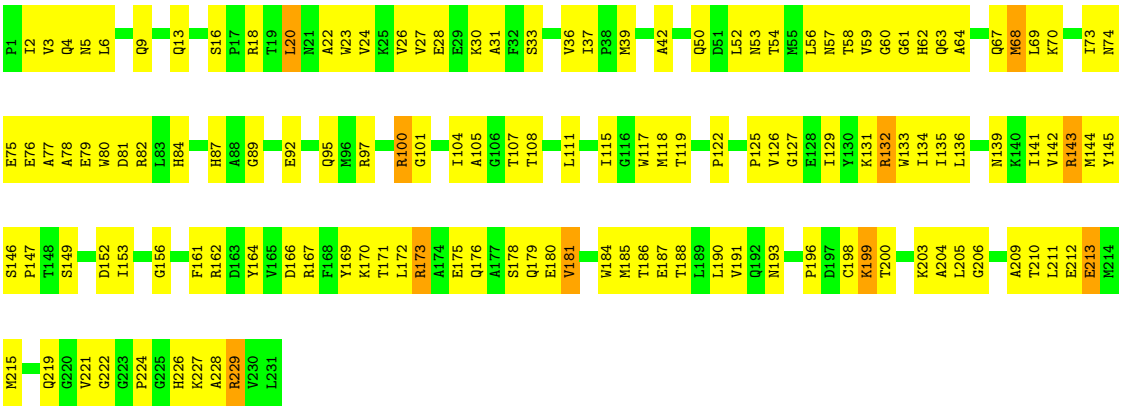
• Molecule 1: capsid protein

Chain 4n:



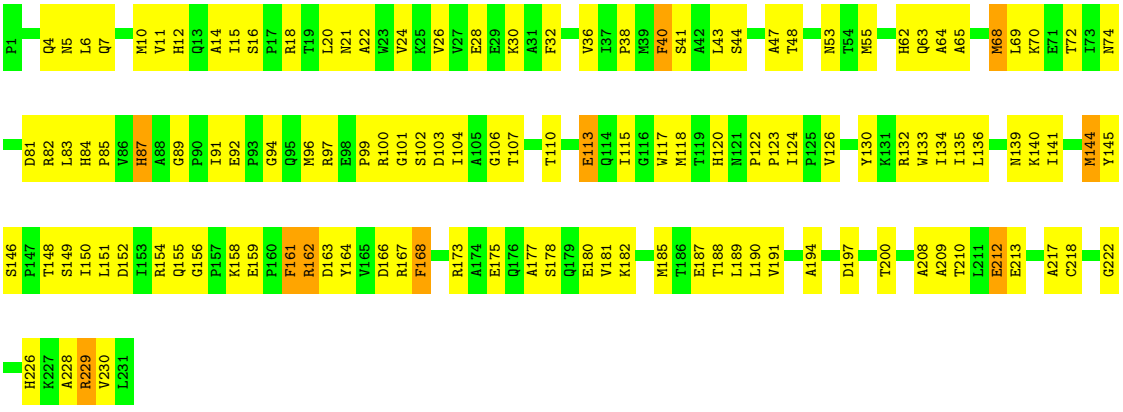
• Molecule 1: capsid protein

Chain 4o:



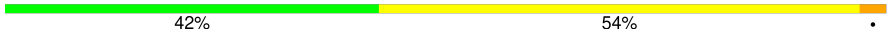
• Molecule 1: capsid protein

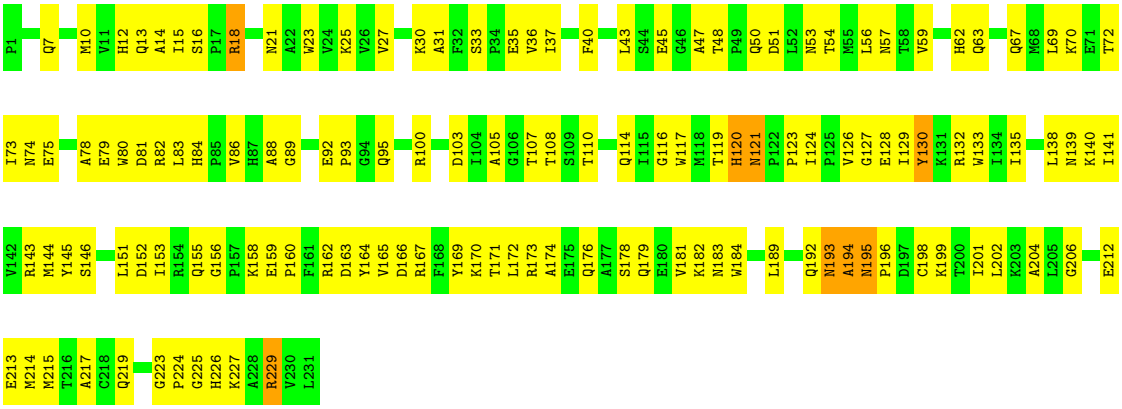
Chain 4p:



• Molecule 1: capsid protein

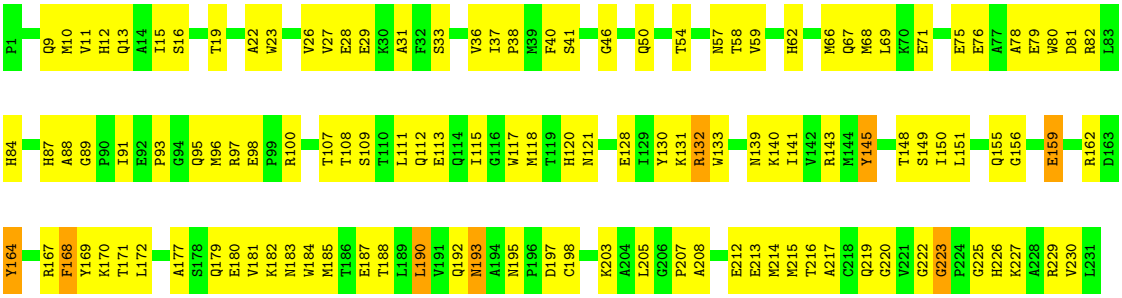
Chain 4q:





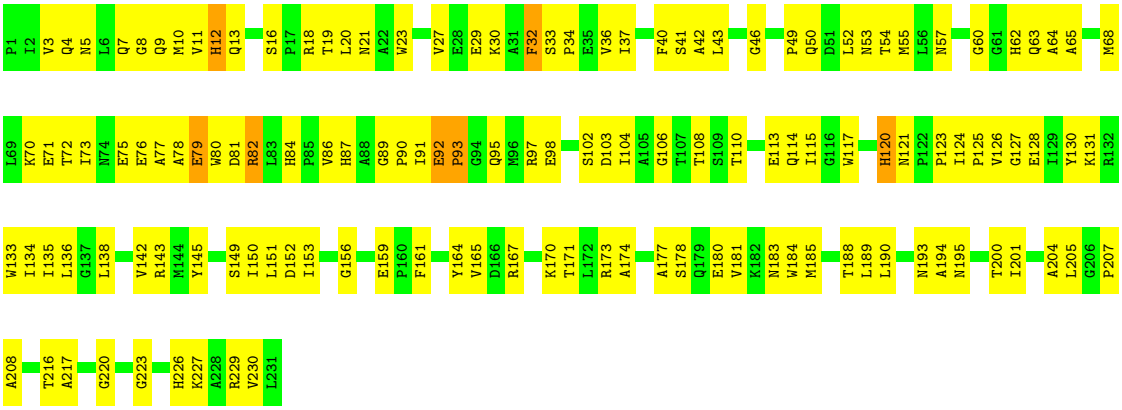
• Molecule 1: capsid protein

Chain 4r:



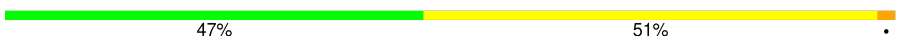
• Molecule 1: capsid protein

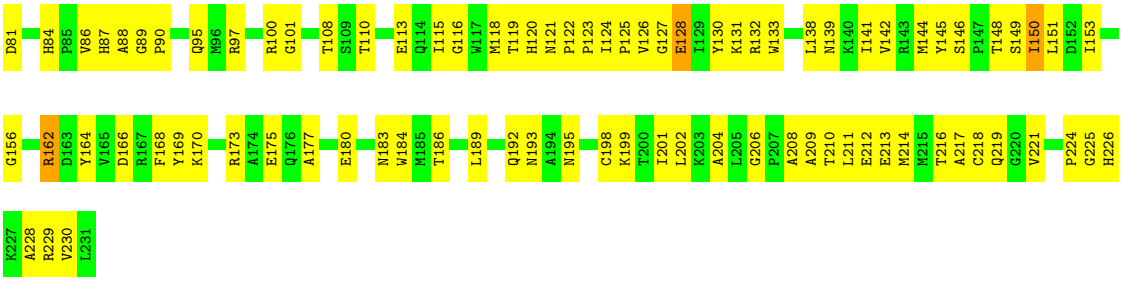
Chain 4s:



• Molecule 1: capsid protein

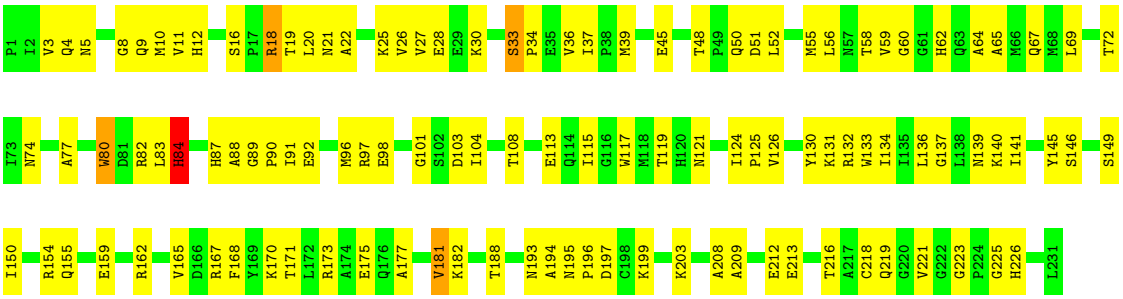
Chain 4t:





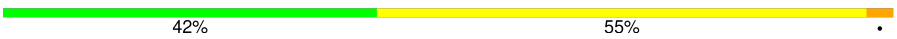
• Molecule 1: capsid protein

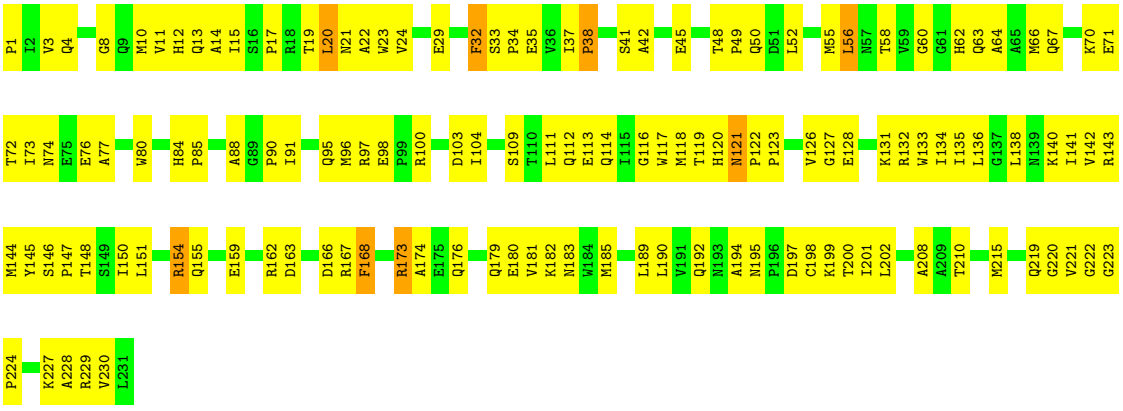
Chain 4u:



• Molecule 1: capsid protein

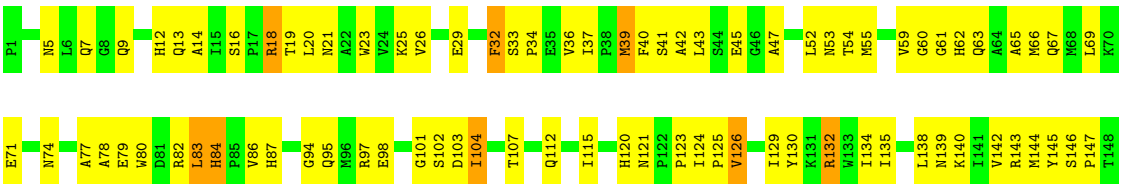
Chain 4v:

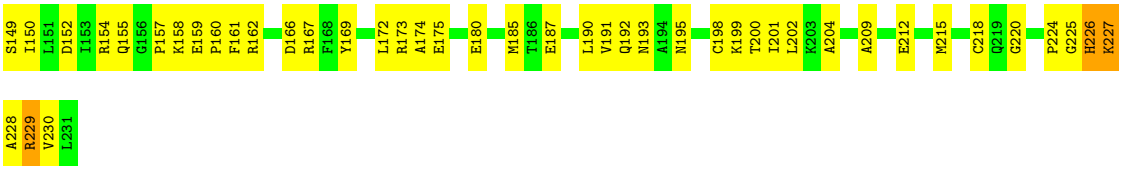




• Molecule 1: capsid protein

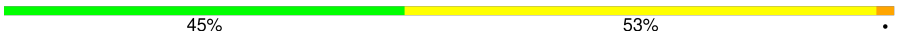
Chain 4w:

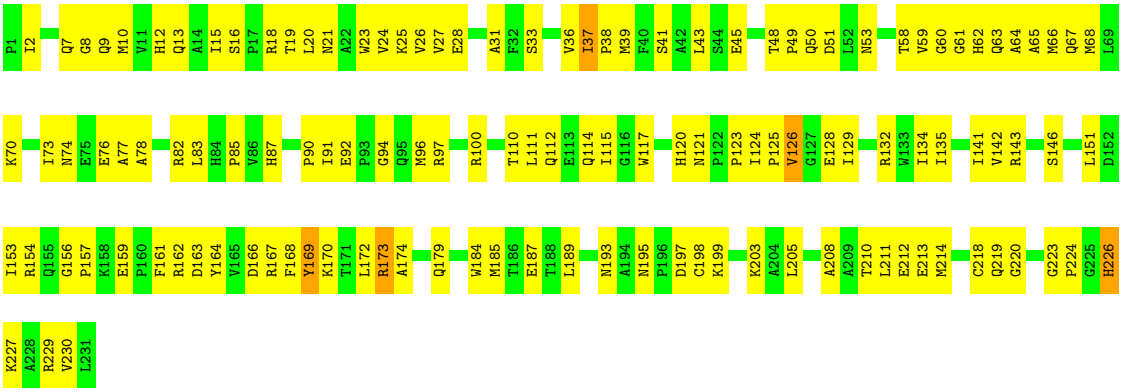




• Molecule 1: capsid protein

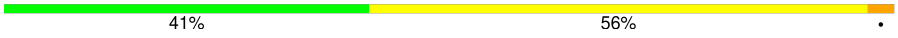
Chain 4x:

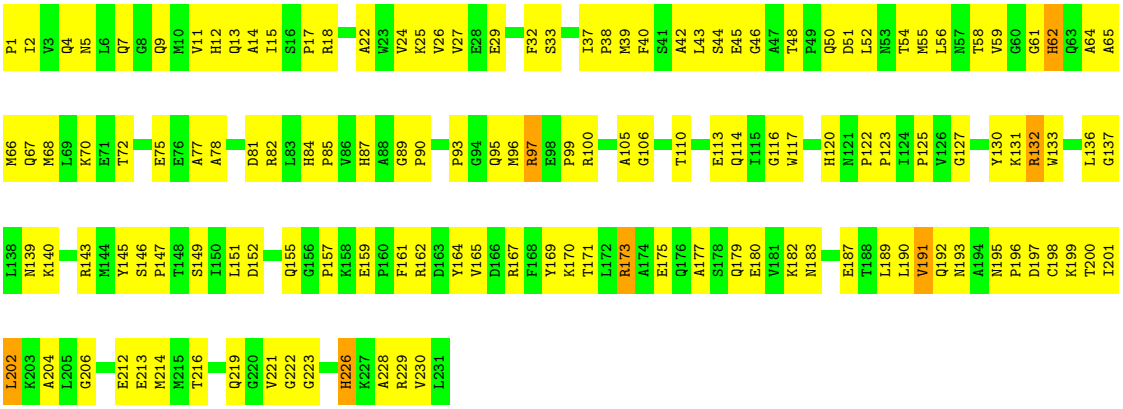




• Molecule 1: capsid protein

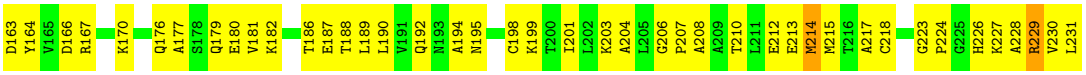
Chain 4y:





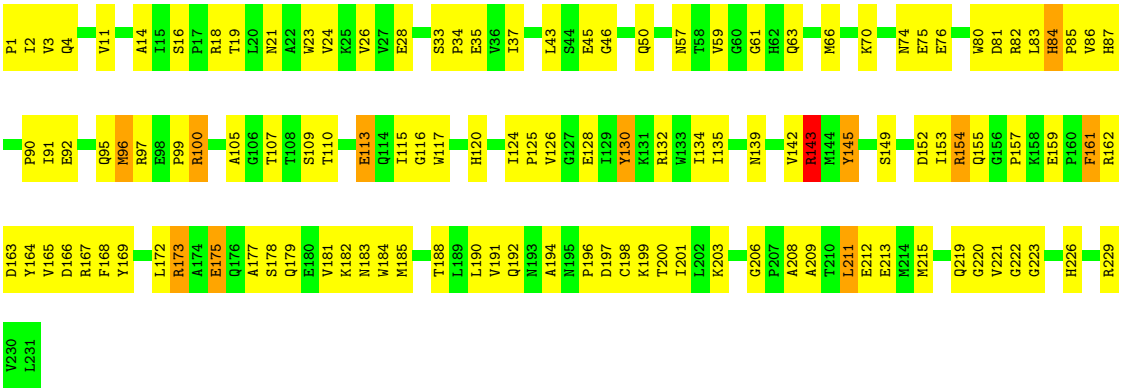
• Molecule 1: capsid protein

Chain 4z:



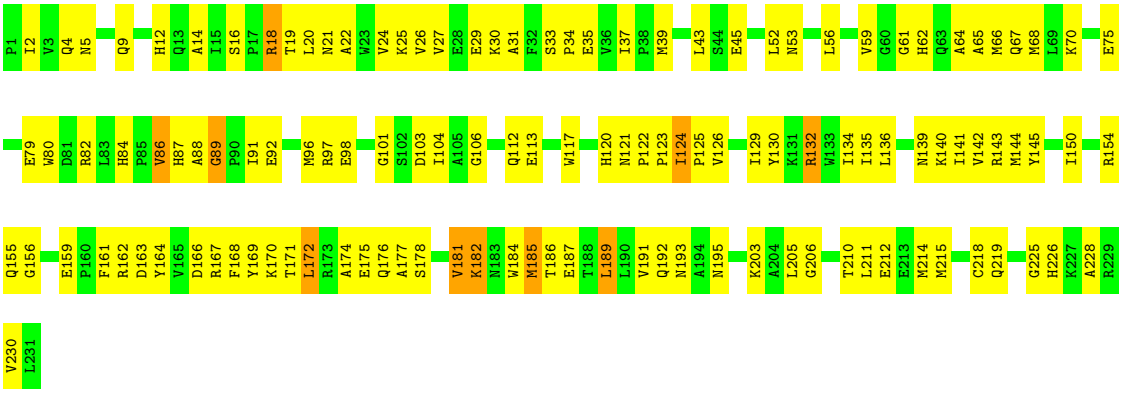
• Molecule 1: capsid protein

Chain 4A:



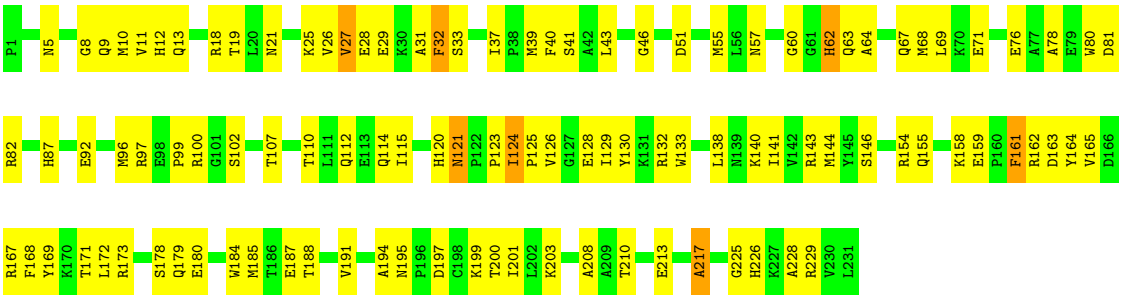
• Molecule 1: capsid protein

Chain 4B:



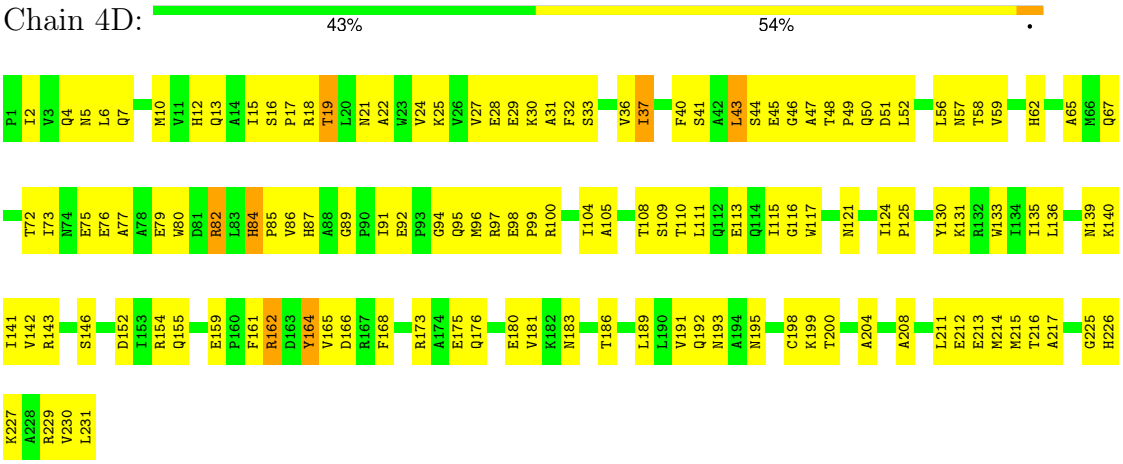
• Molecule 1: capsid protein

Chain 4C:



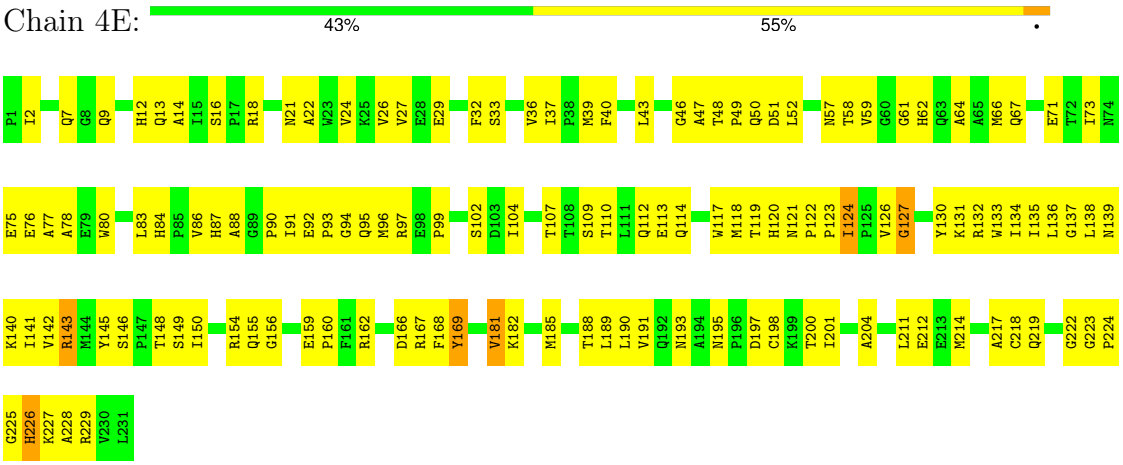
• Molecule 1: capsid protein

Chain 4D:



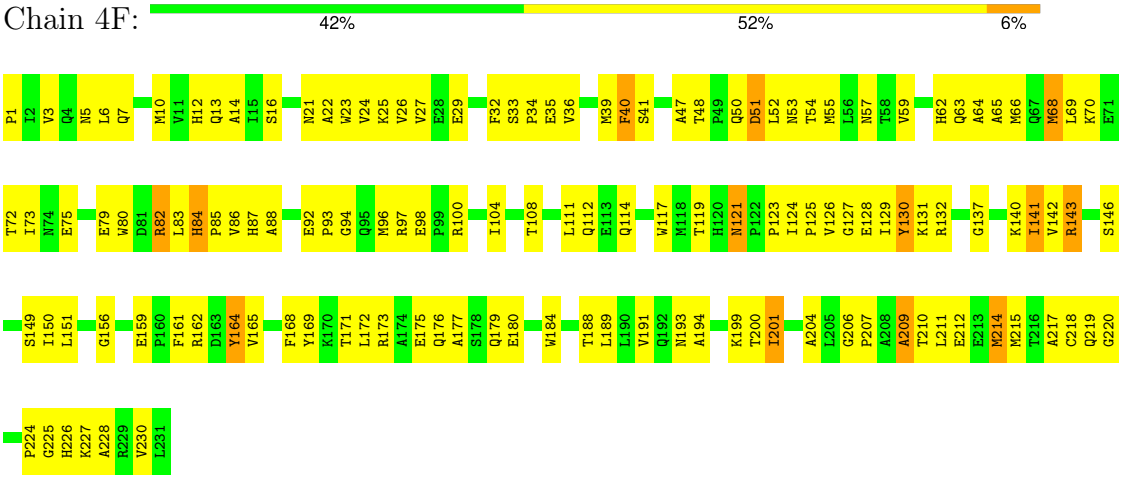
• Molecule 1: capsid protein

Chain 4E:



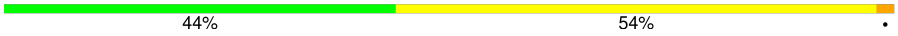
• Molecule 1: capsid protein

Chain 4F:



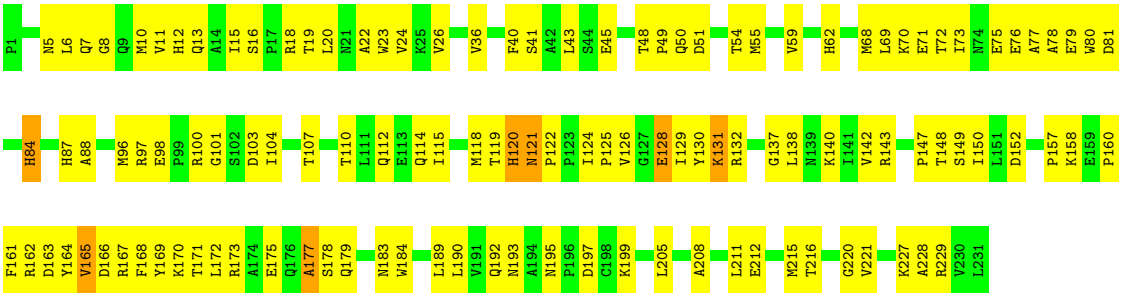
• Molecule 1: capsid protein

Chain 4G:



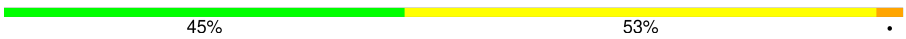
• Molecule 1: capsid protein

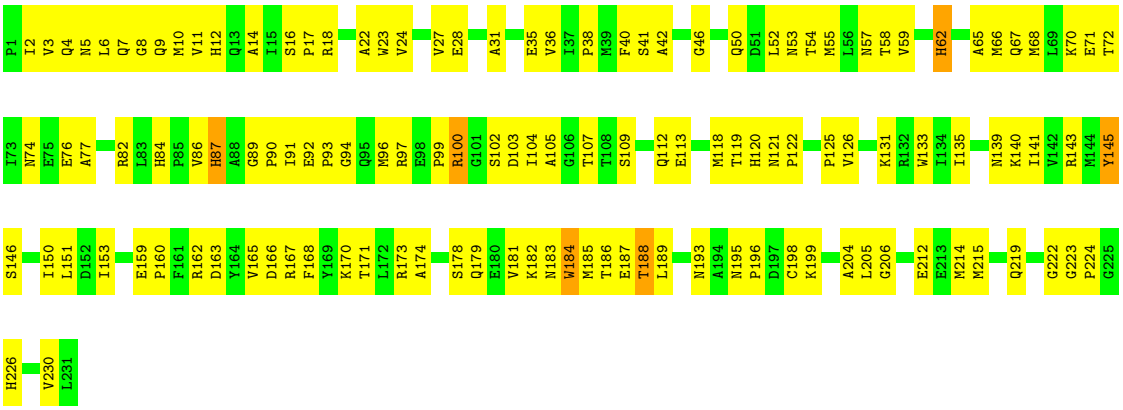
Chain 4H:



• Molecule 1: capsid protein

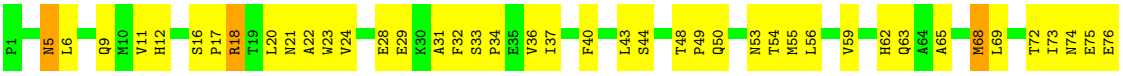
Chain 4I:

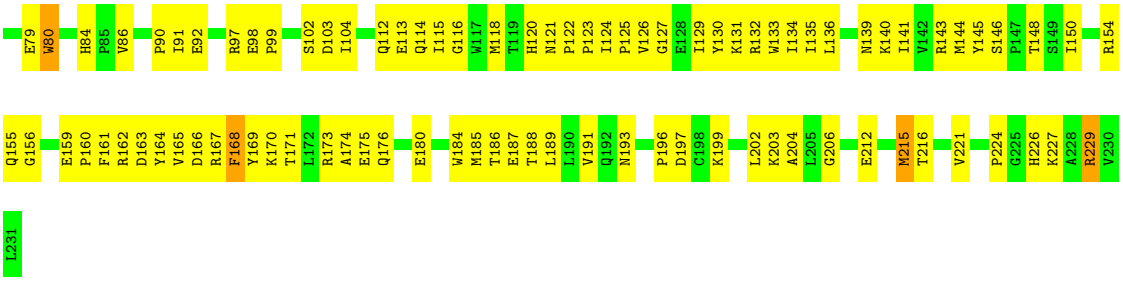




• Molecule 1: capsid protein

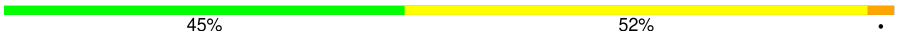
Chain 4J:

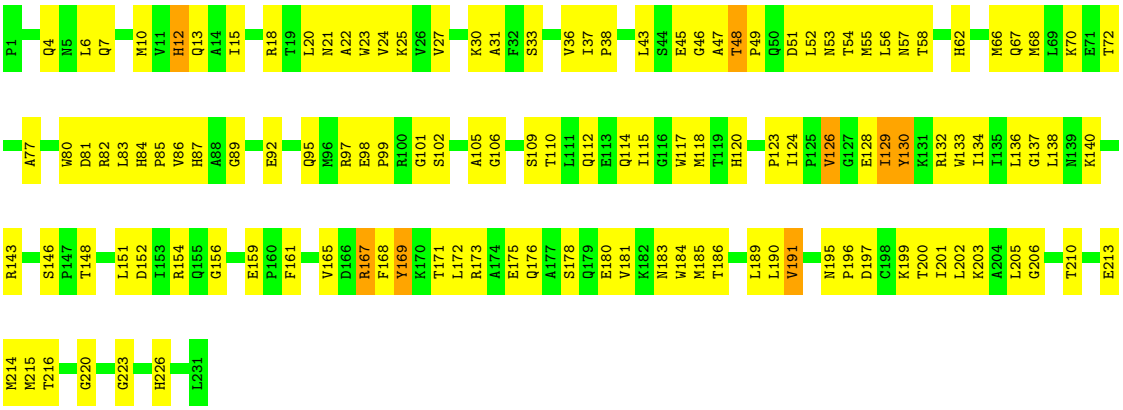




• Molecule 1: capsid protein

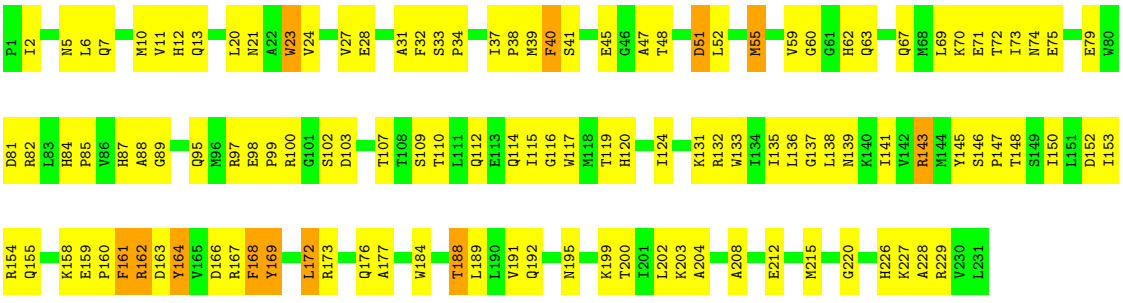
Chain 4K:





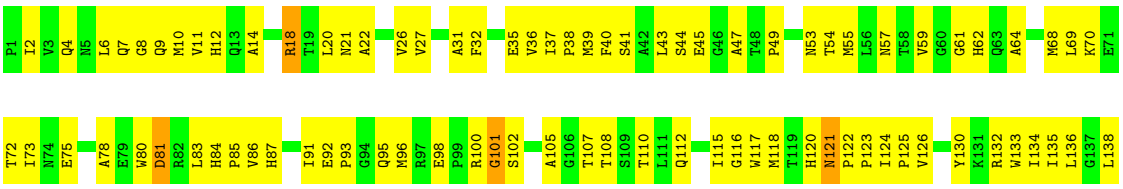
• Molecule 1: capsid protein

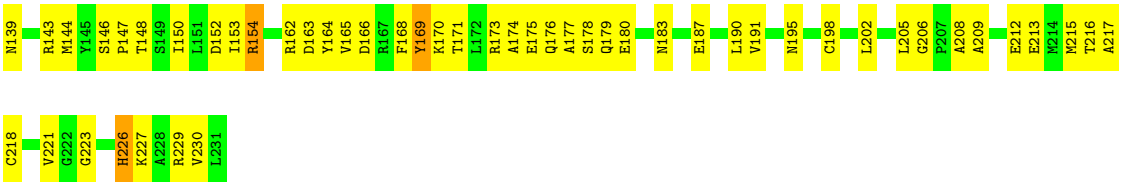
Chain 4L:



• Molecule 1: capsid protein

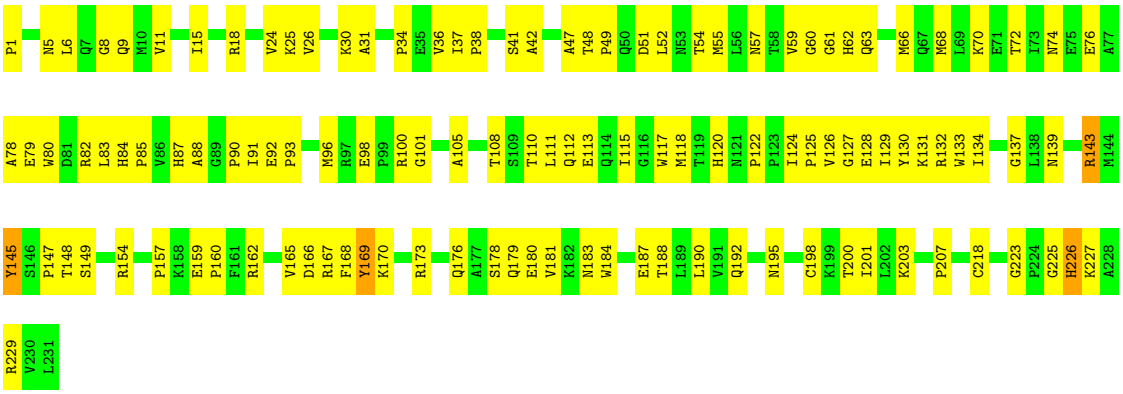
Chain 4M:





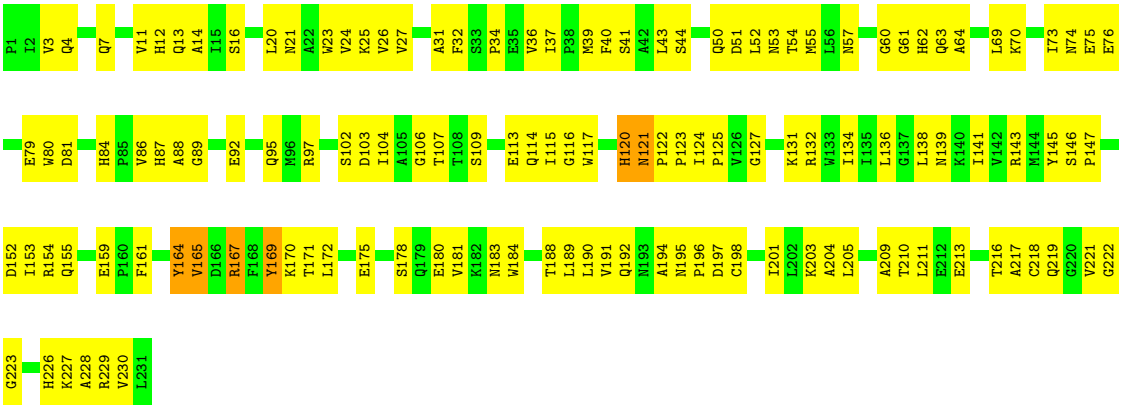
• Molecule 1: capsid protein

Chain 4N:



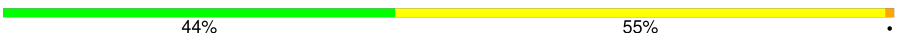
• Molecule 1: capsid protein

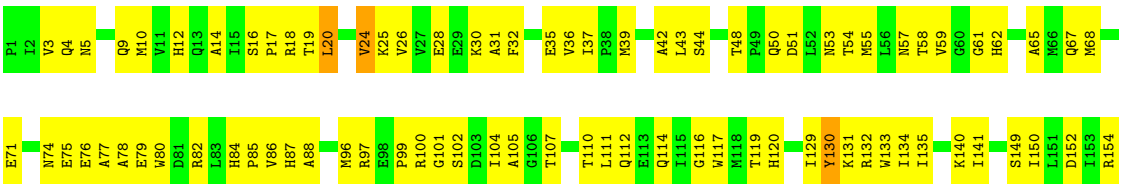
Chain 4O:

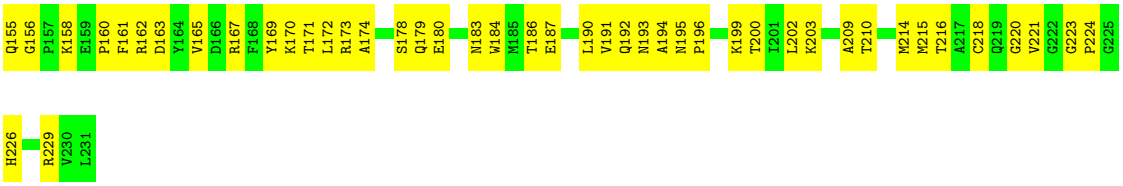


• Molecule 1: capsid protein

Chain 4P:

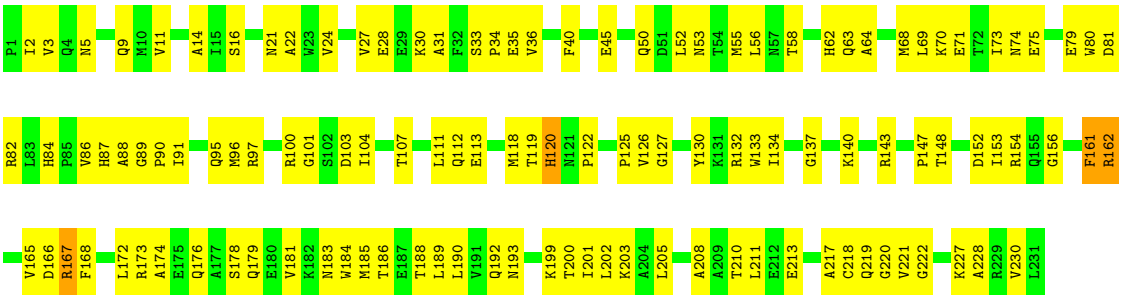






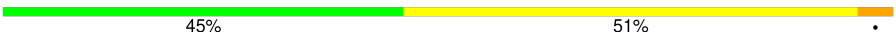
• Molecule 1: capsid protein

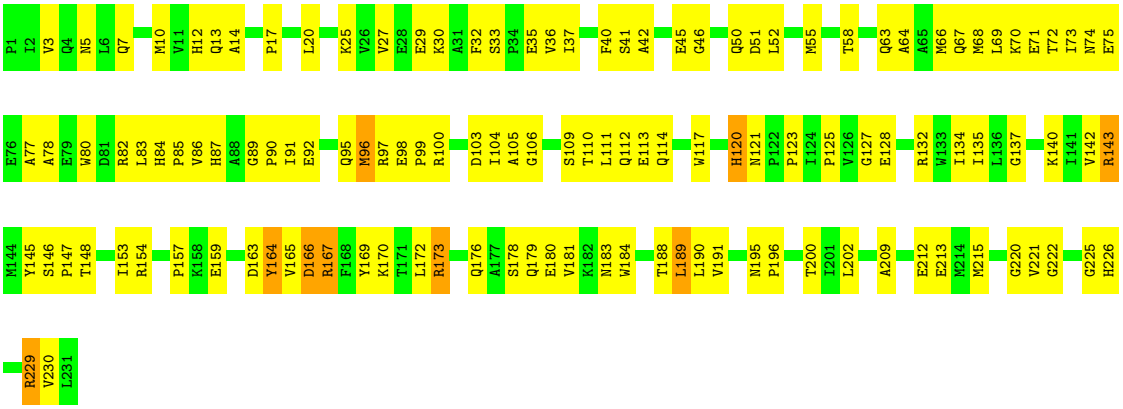
Chain 4Q:



• Molecule 1: capsid protein

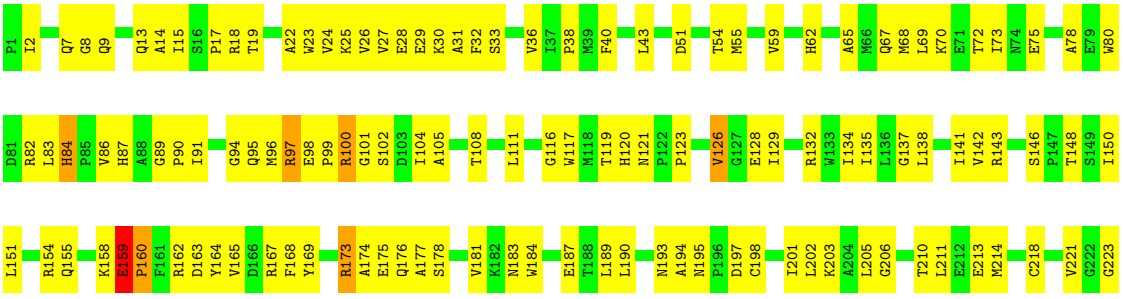
Chain 4R:





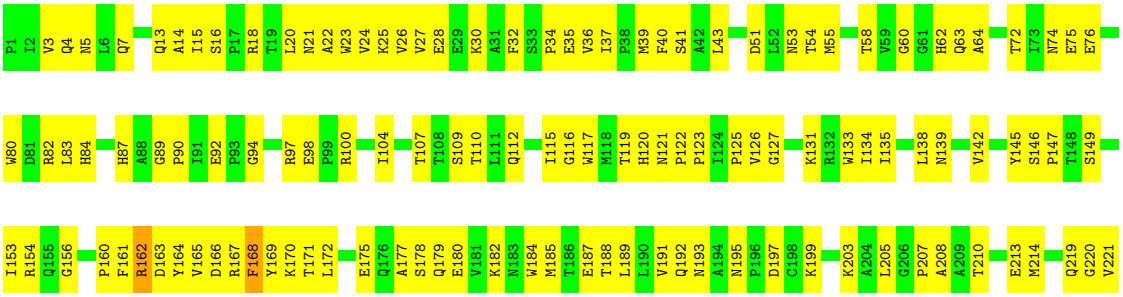
• Molecule 1: capsid protein

Chain 4S:



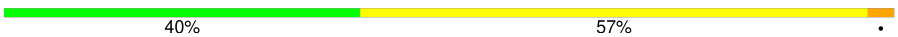
• Molecule 1: capsid protein

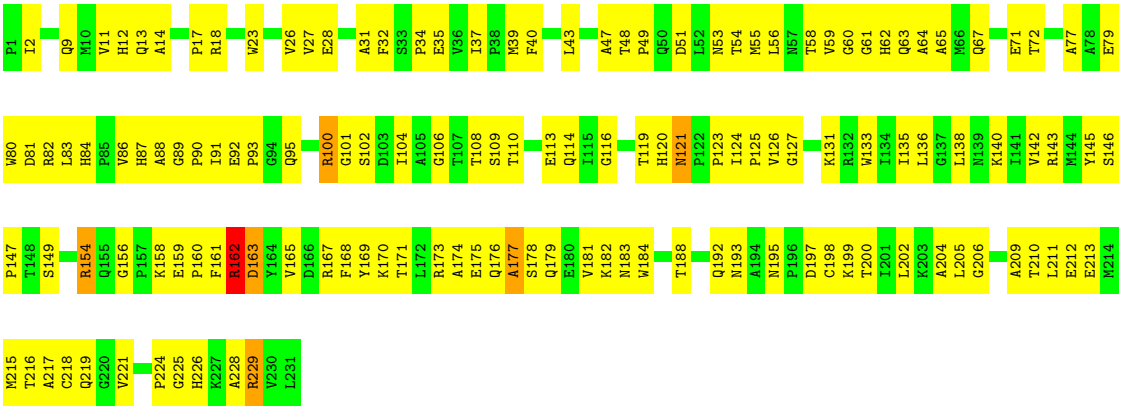
Chain 4T:



• Molecule 1: capsid protein

Chain 4U:



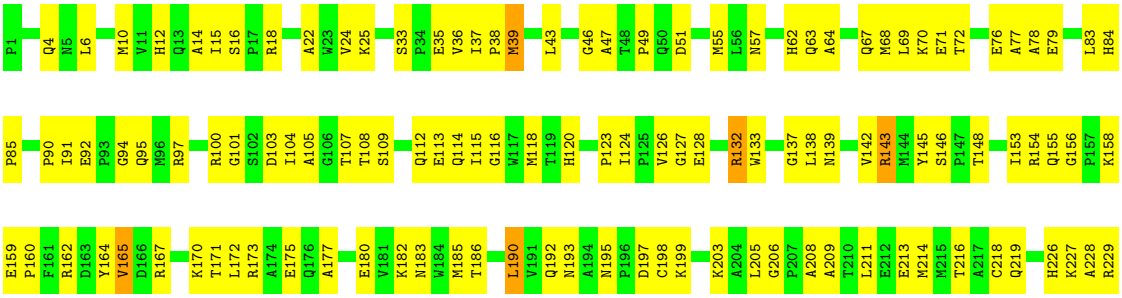


• Molecule 1: capsid protein

Chain 4V:

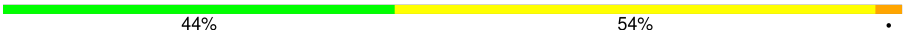
• Molecule 1: capsid protein

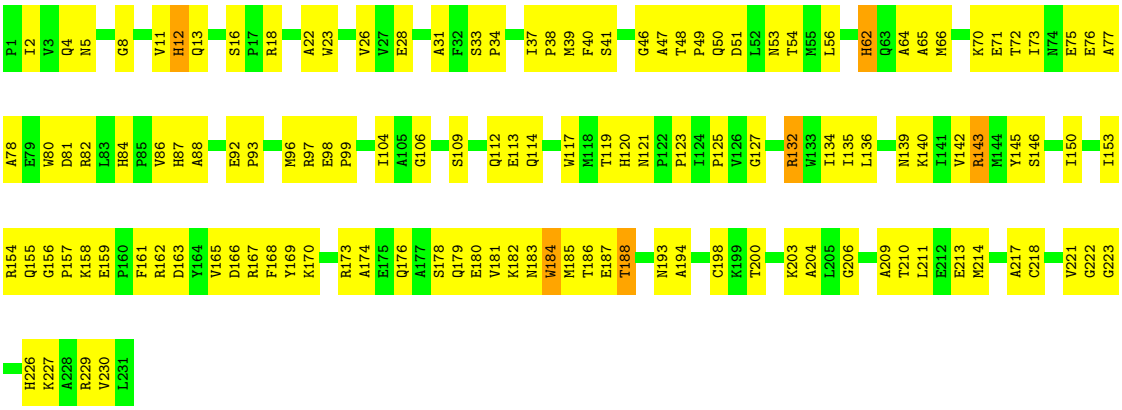
Chain 4W:



• Molecule 1: capsid protein

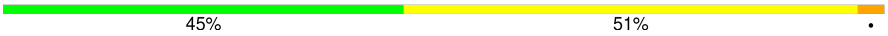
Chain 4X:

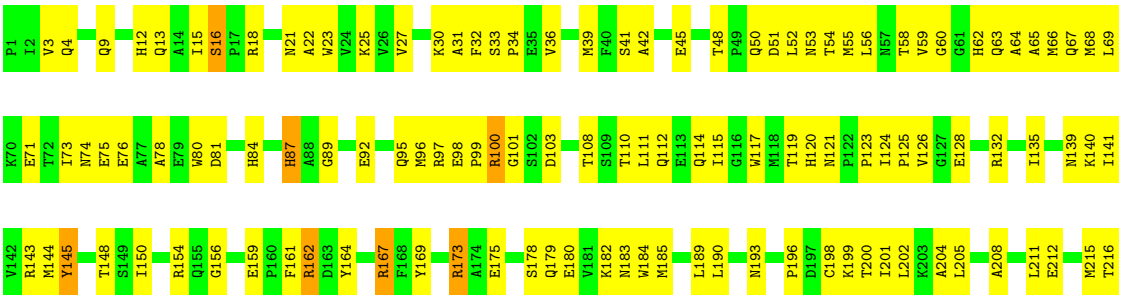




• Molecule 1: capsid protein

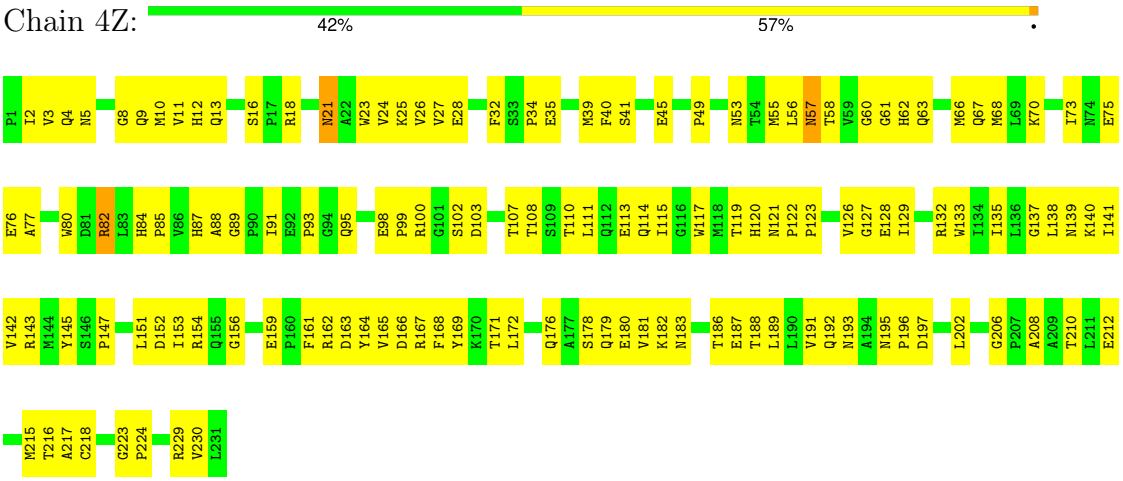
Chain 4Y:





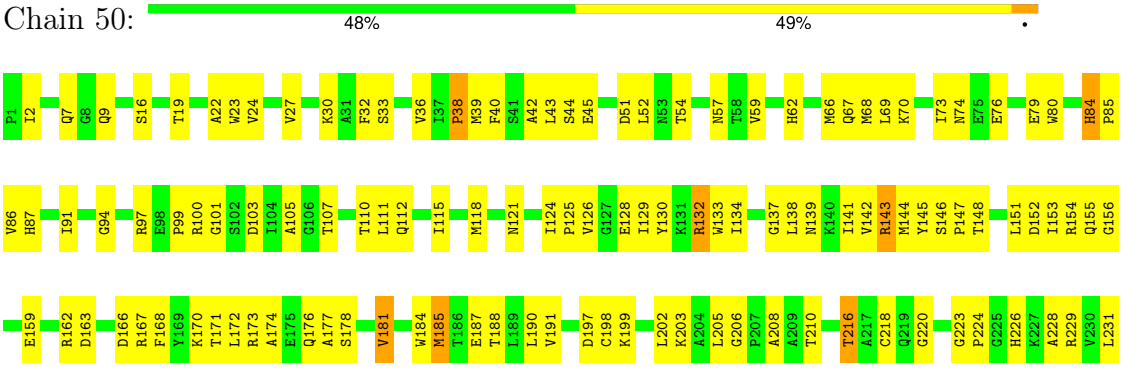
• Molecule 1: capsid protein

Chain 4Z:



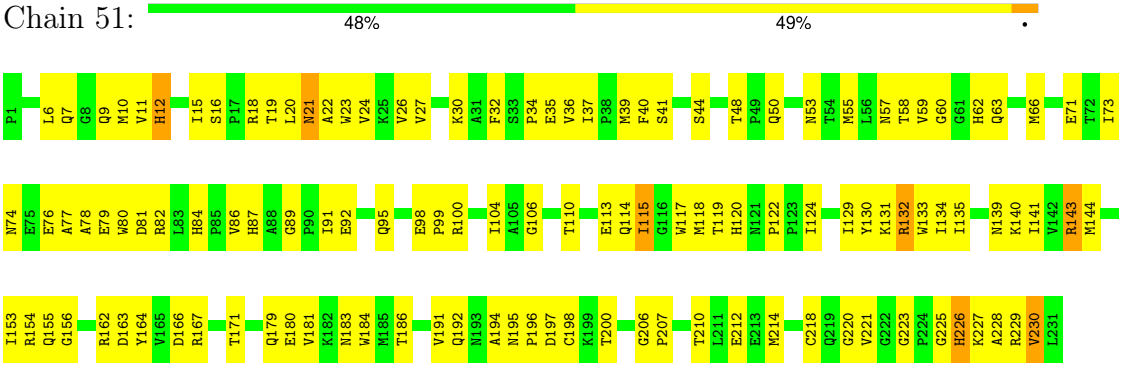
• Molecule 1: capsid protein

Chain 50:



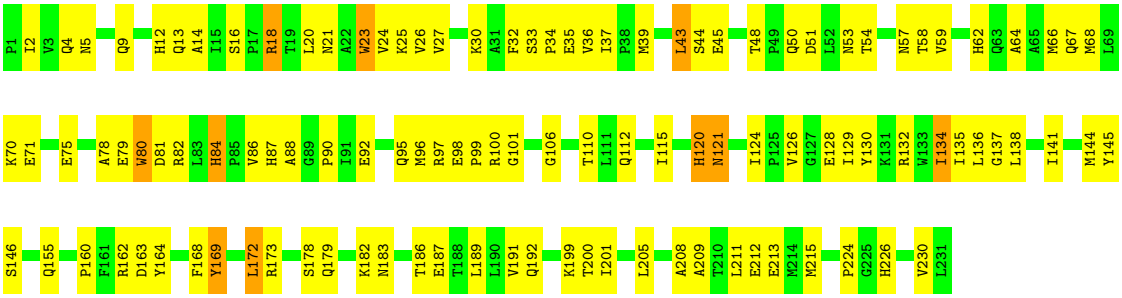
• Molecule 1: capsid protein

Chain 51:



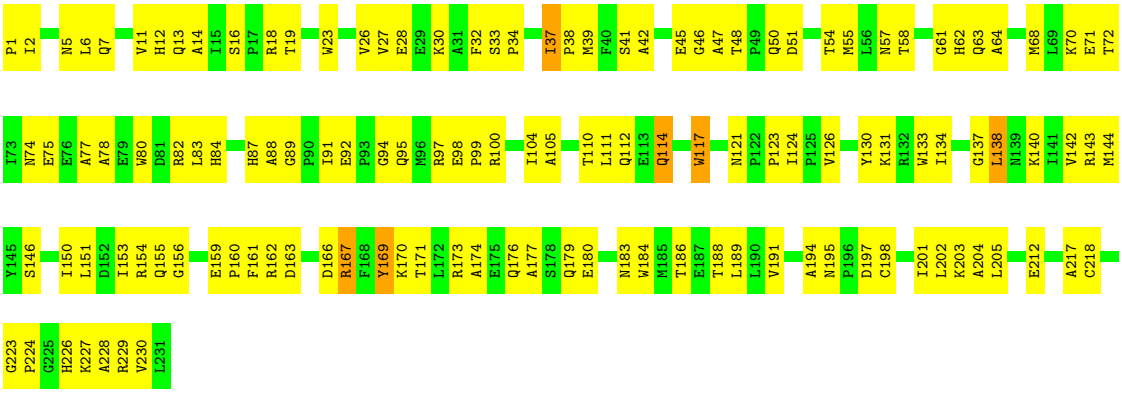
• Molecule 1: capsid protein

Chain 52:



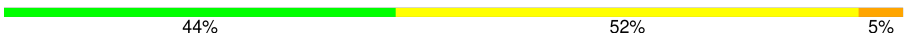
• Molecule 1: capsid protein

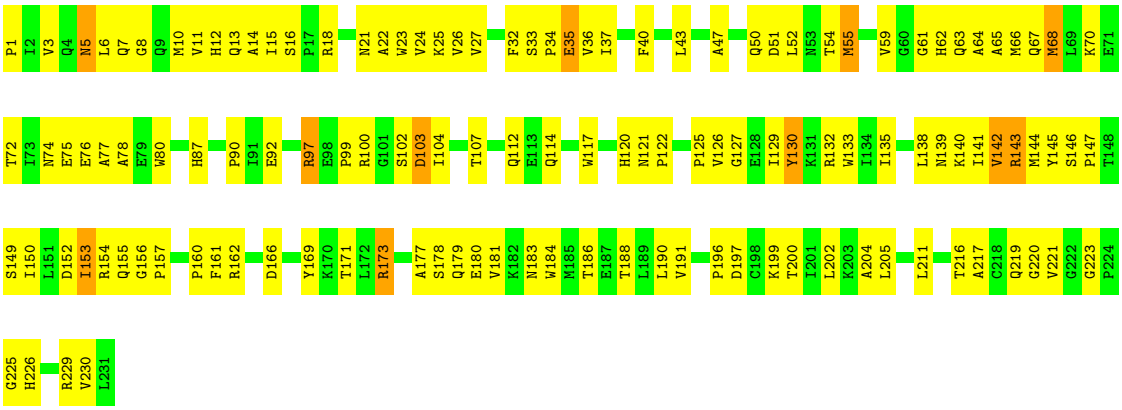
Chain 53:



• Molecule 1: capsid protein

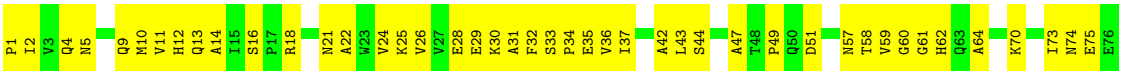
Chain 54:





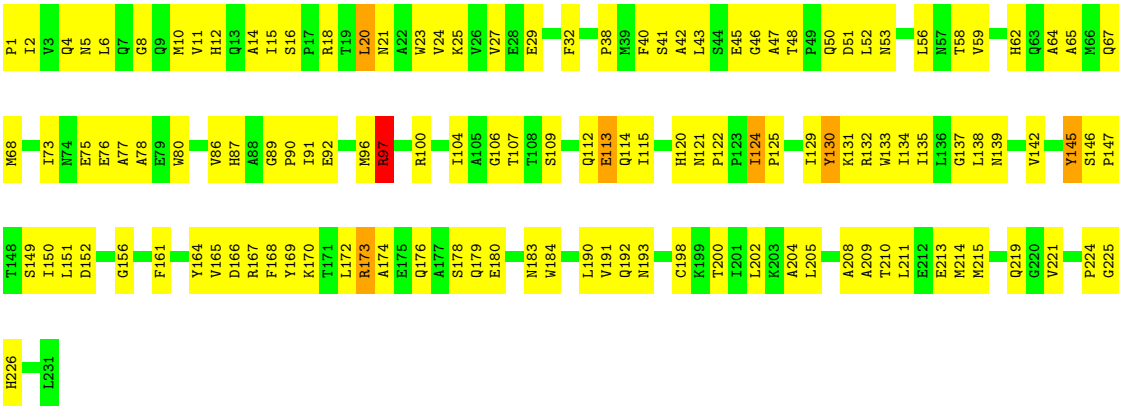
• Molecule 1: capsid protein

Chain 55:



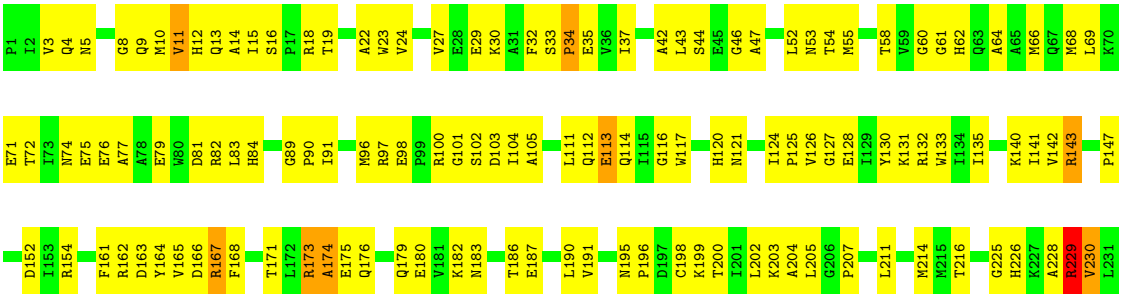
• Molecule 1: capsid protein

Chain 56:



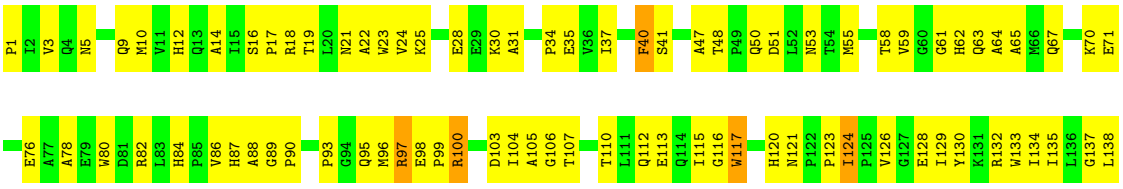
• Molecule 1: capsid protein

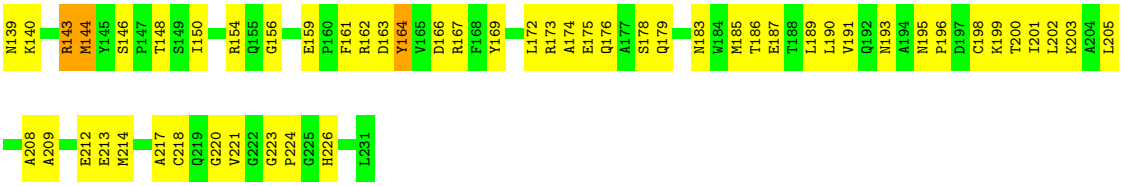
Chain 57:



• Molecule 1: capsid protein

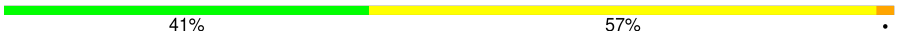
Chain 58:

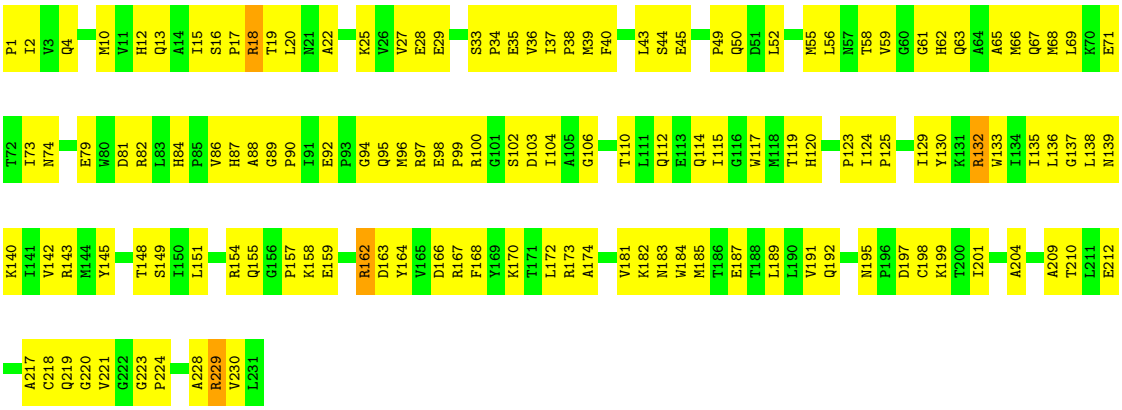




• Molecule 1: capsid protein

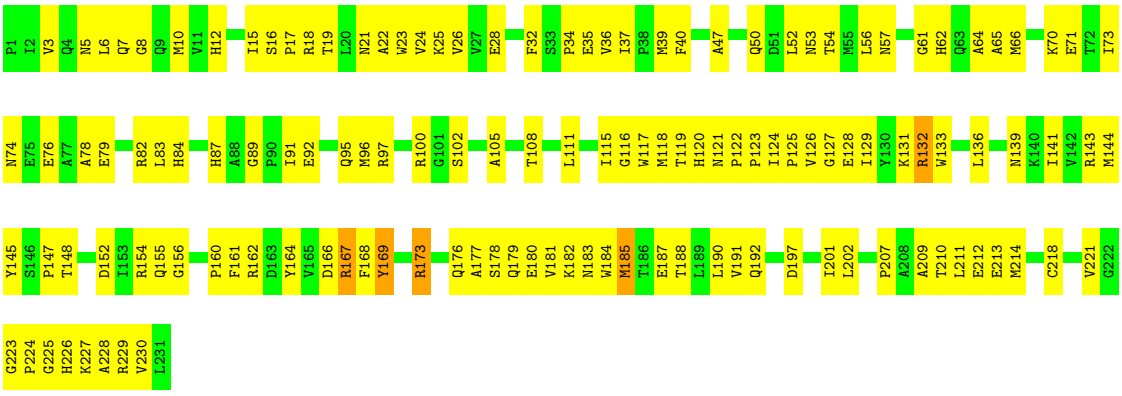
Chain 59:





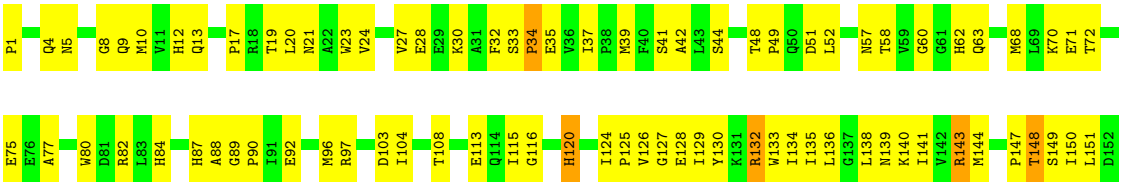
• Molecule 1: capsid protein

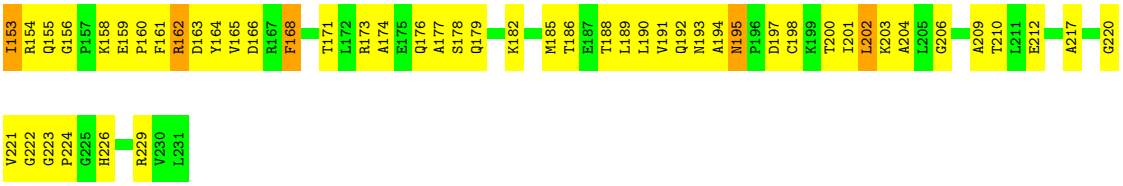
Chain 5a:



• Molecule 1: capsid protein

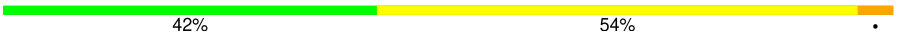
Chain 5b:

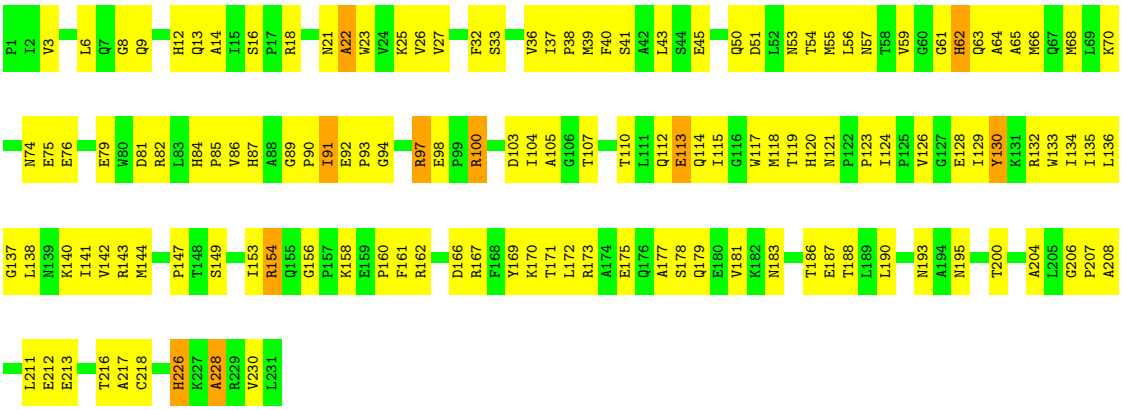




• Molecule 1: capsid protein

Chain 5c:



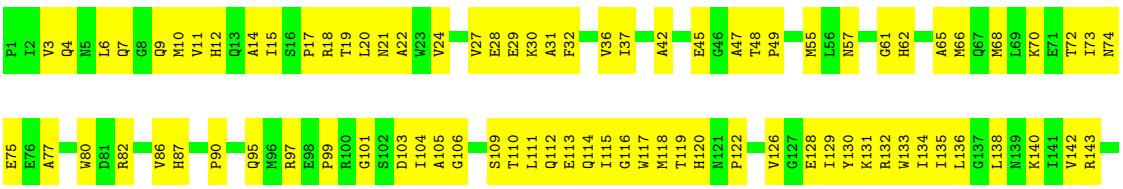


• Molecule 1: capsid protein

Chain 5d:

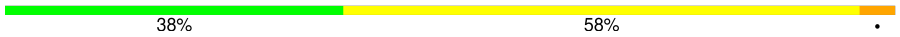
• Molecule 1: capsid protein

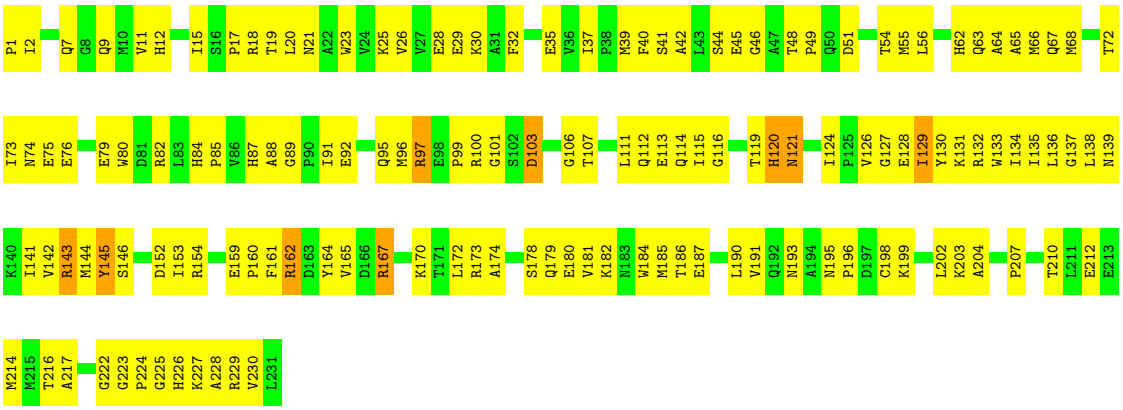
Chain 5e:



• Molecule 1: capsid protein

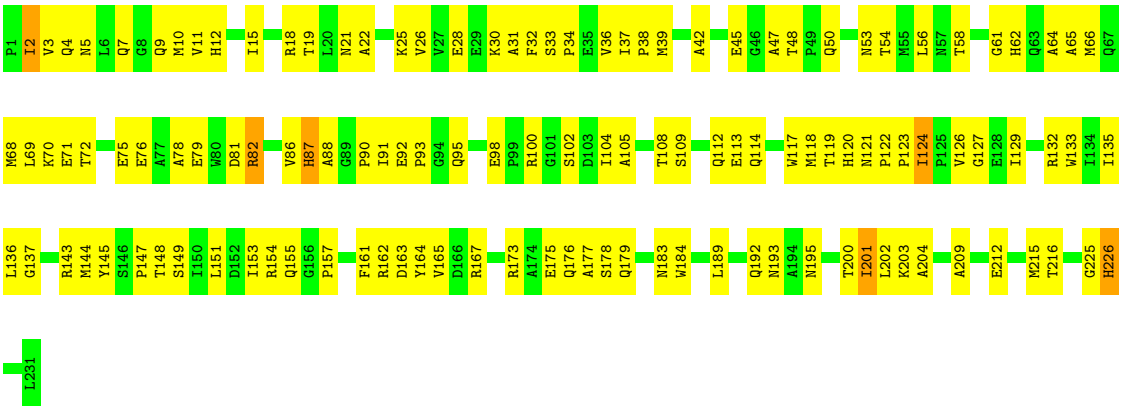
Chain 5f:





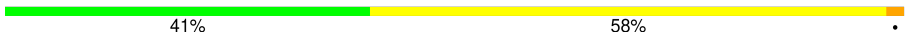
• Molecule 1: capsid protein

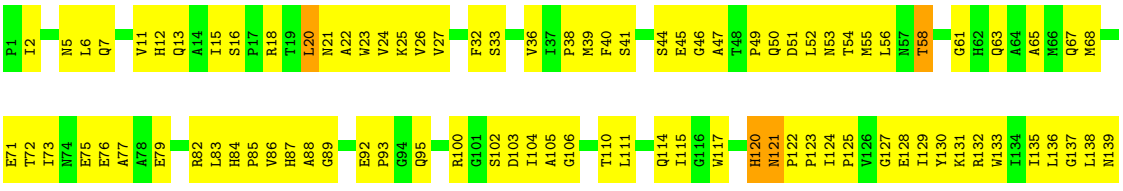
Chain 5g:



• Molecule 1: capsid protein

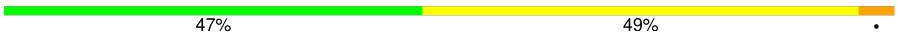
Chain 5h:

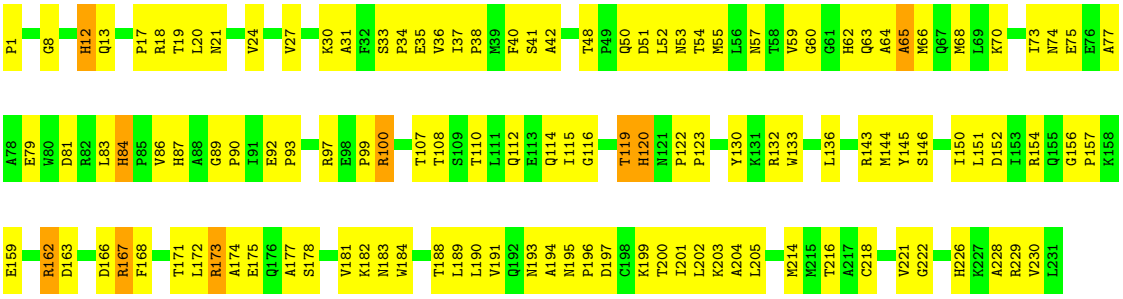




• Molecule 1: capsid protein

Chain 5i:



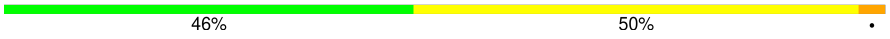


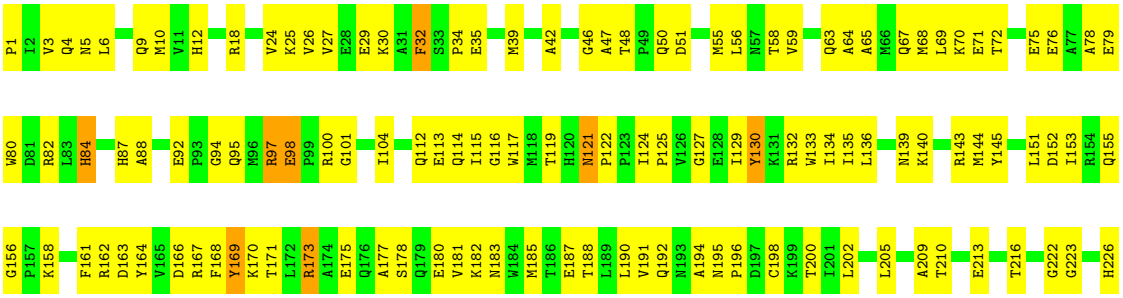
• Molecule 1: capsid protein

Chain 5j:

• Molecule 1: capsid protein

Chain 5k:





• Molecule 1: capsid protein

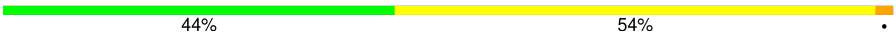
Chain 5l:

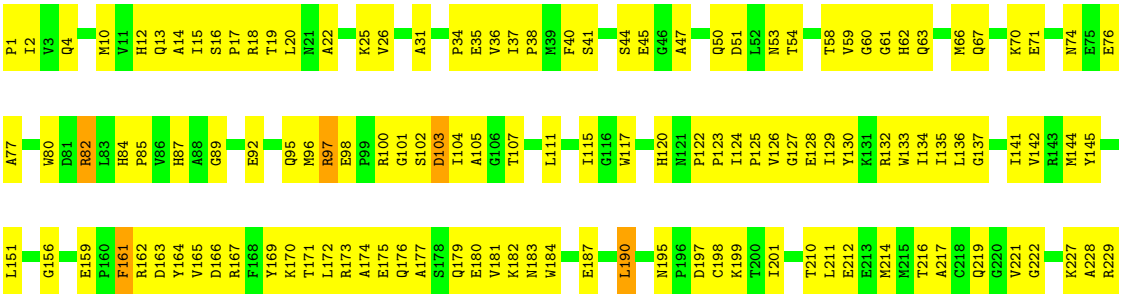
• Molecule 1: capsid protein

Chain 5m:

• Molecule 1: capsid protein

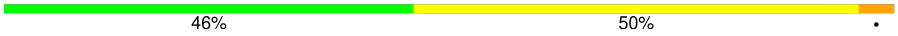
Chain 5n:





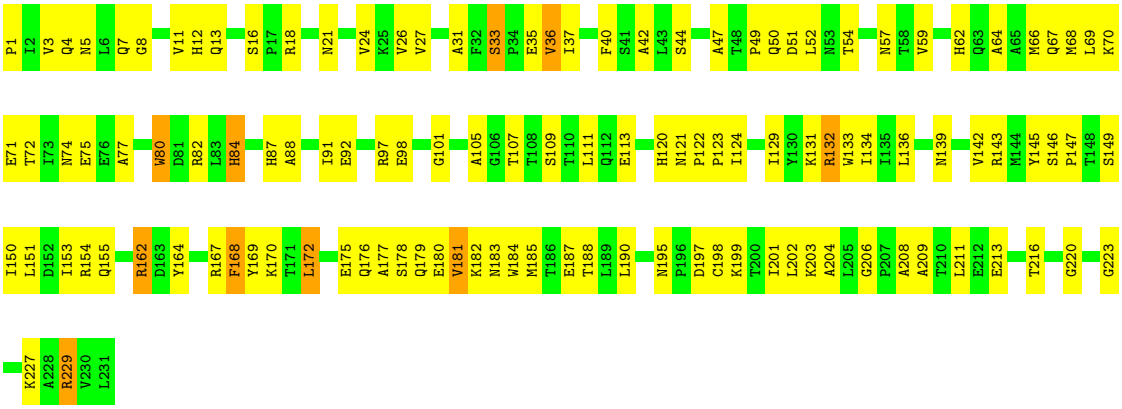
• Molecule 1: capsid protein

Chain 5o:



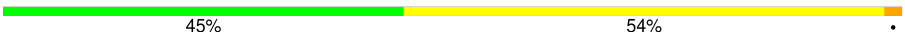
• Molecule 1: capsid protein

Chain 5p:



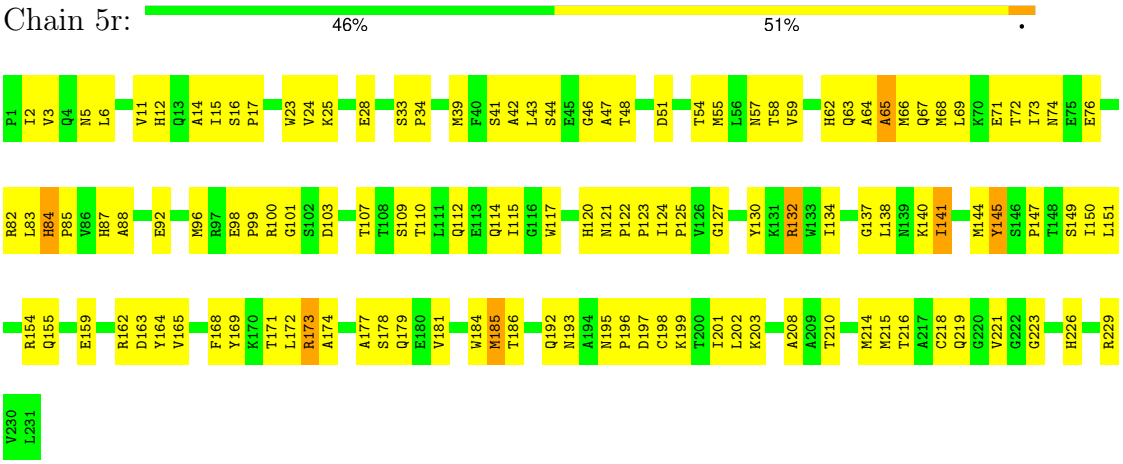
• Molecule 1: capsid protein

Chain 5q:



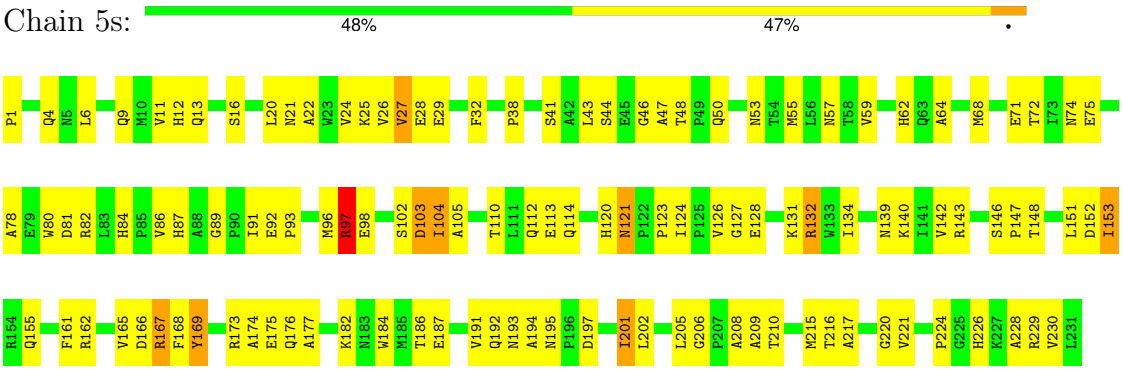
• Molecule 1: capsid protein

Chain 5r:



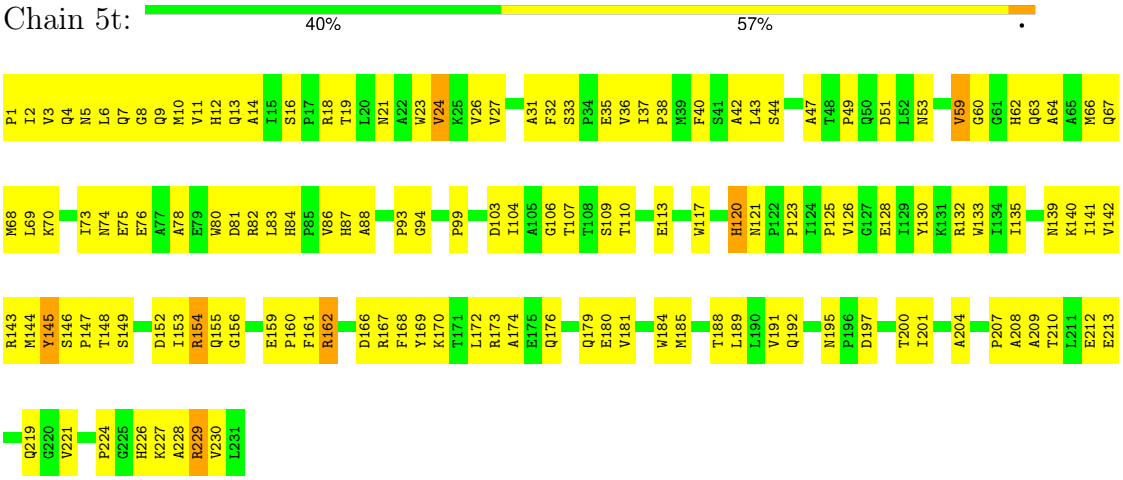
• Molecule 1: capsid protein

Chain 5s:



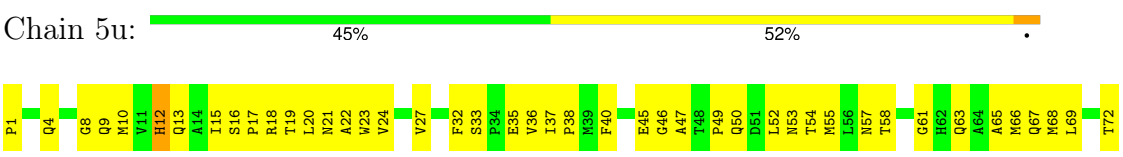
• Molecule 1: capsid protein

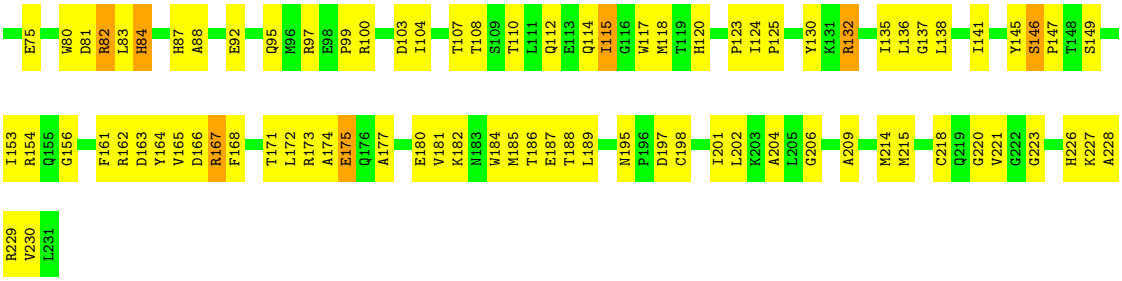
Chain 5t:



• Molecule 1: capsid protein

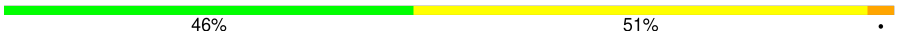
Chain 5u:

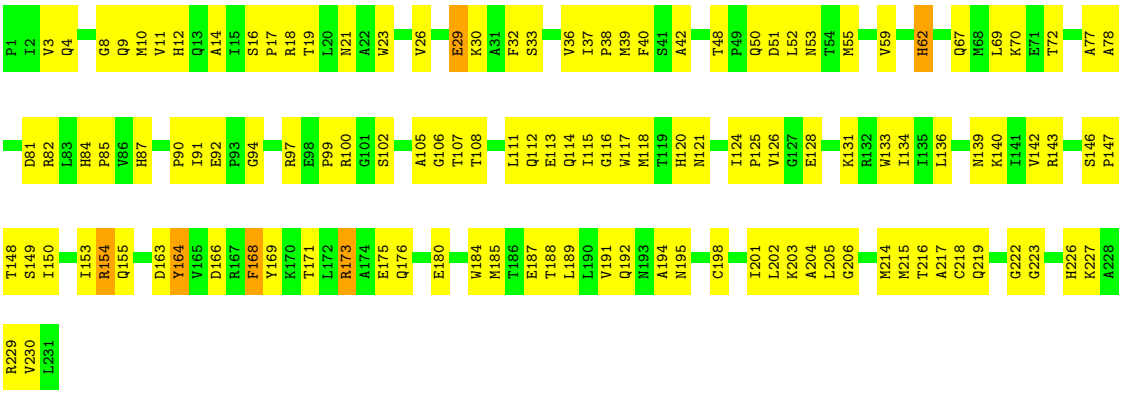




• Molecule 1: capsid protein

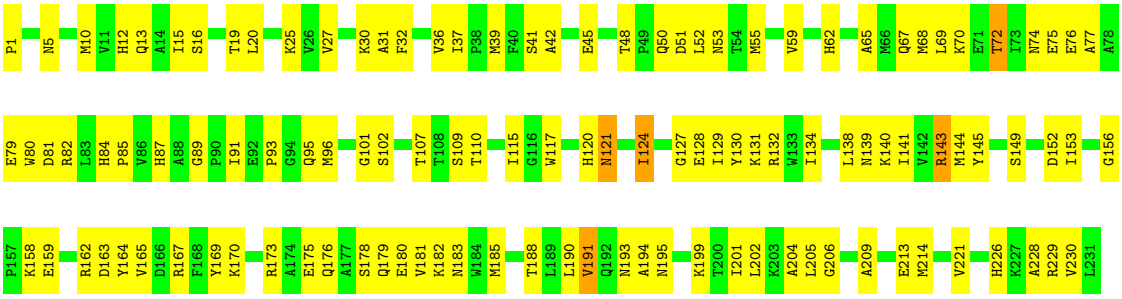
Chain 5v:





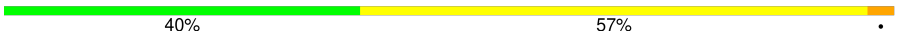
• Molecule 1: capsid protein

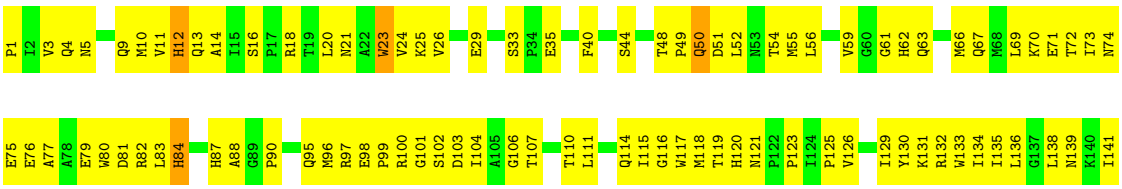
Chain 5w:

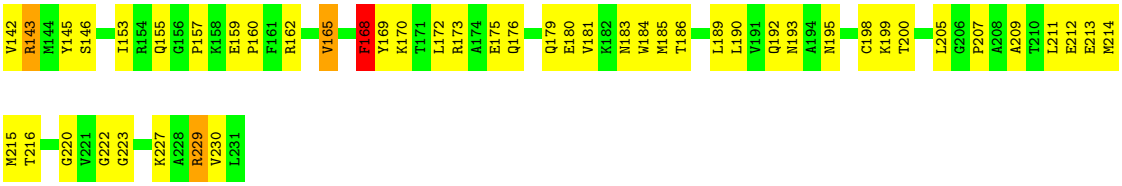


• Molecule 1: capsid protein

Chain 5x:

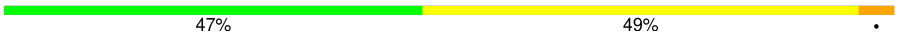


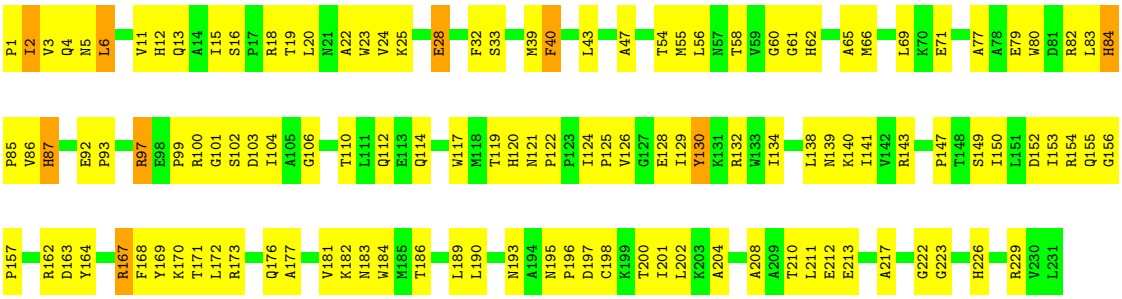




• Molecule 1: capsid protein

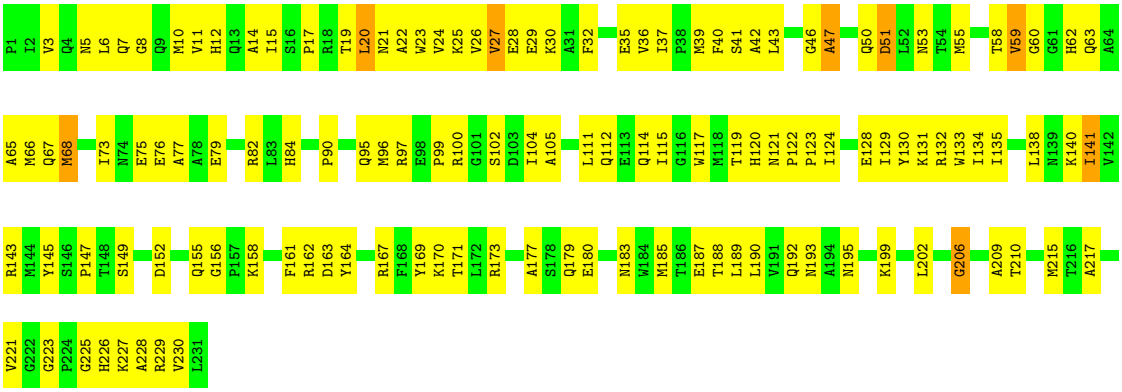
Chain 5y:





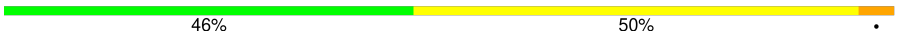
• Molecule 1: capsid protein

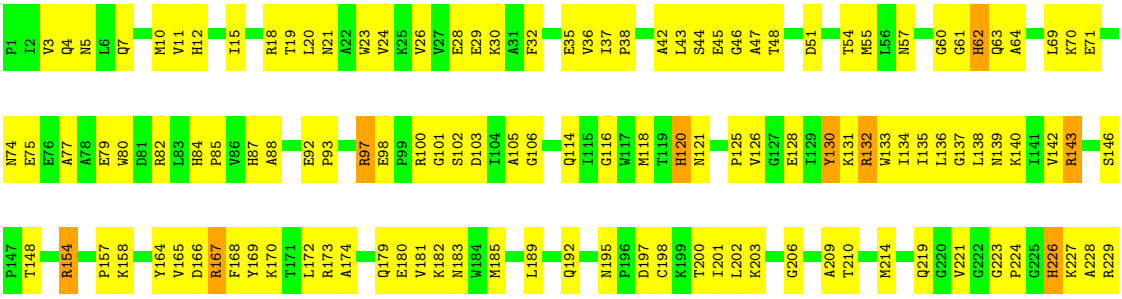
Chain 5z:



• Molecule 1: capsid protein

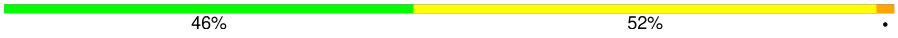
Chain 5A:





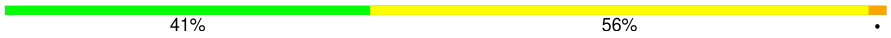
• Molecule 1: capsid protein

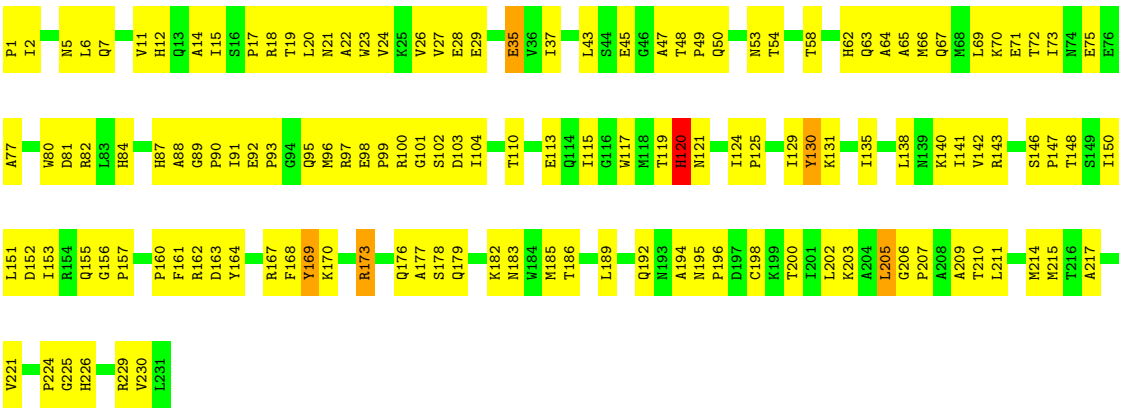
Chain 5B:



• Molecule 1: capsid protein

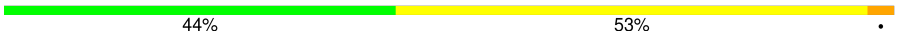
Chain 5C:

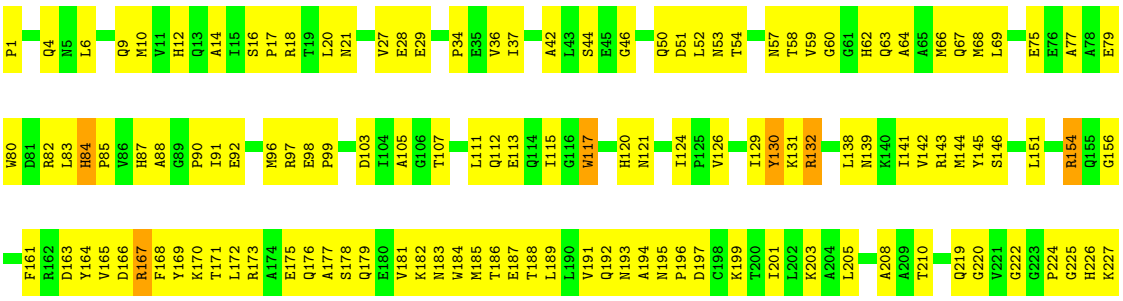




• Molecule 1: capsid protein

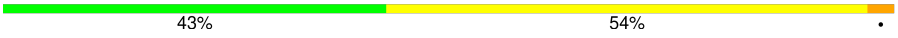
Chain 5D:

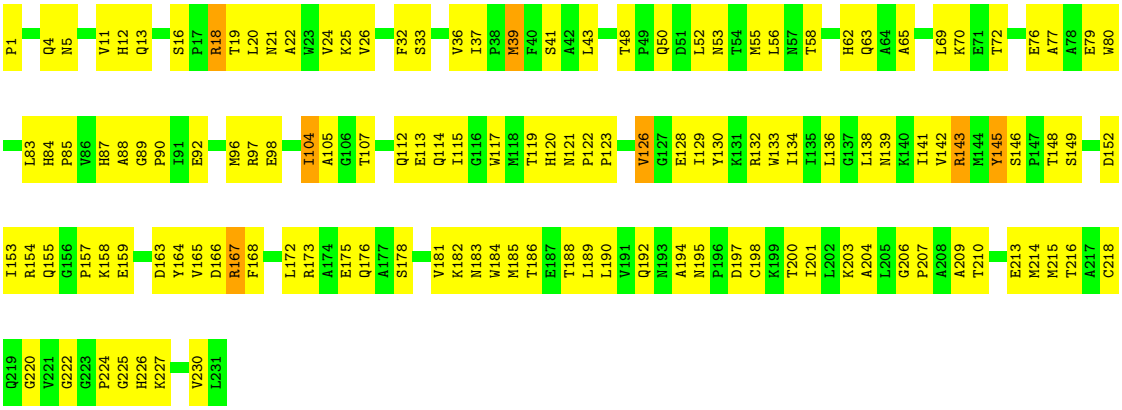




• Molecule 1: capsid protein

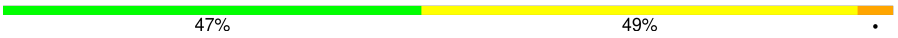
Chain 5E:

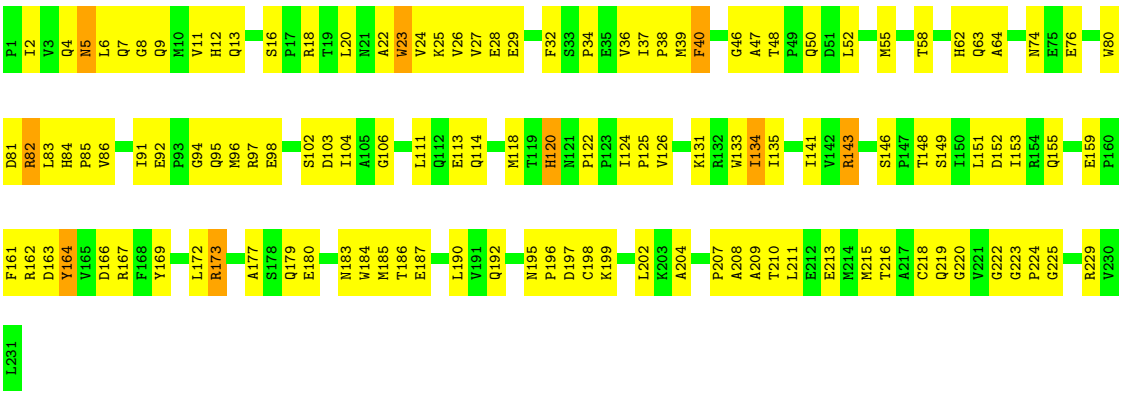




• Molecule 1: capsid protein

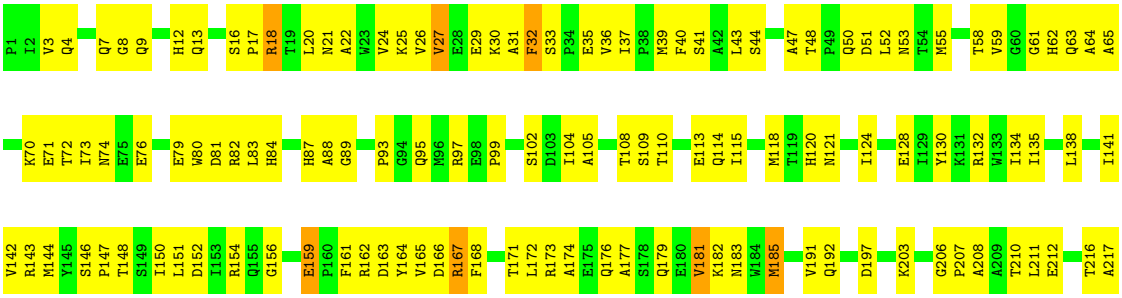
Chain 5F:

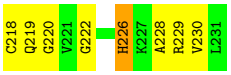




• Molecule 1: capsid protein

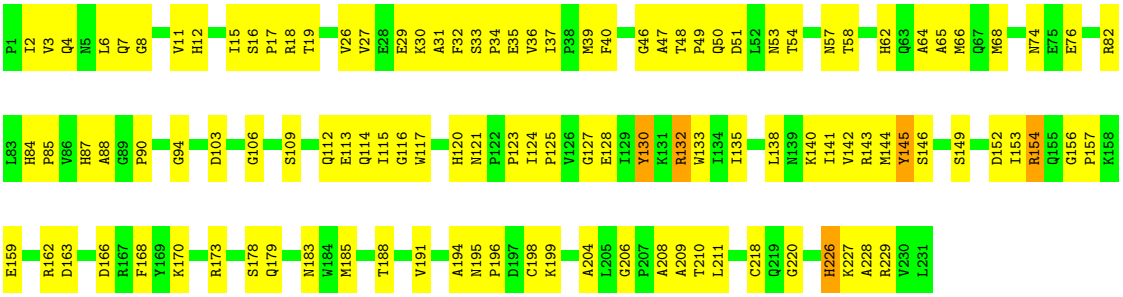
Chain 5G:





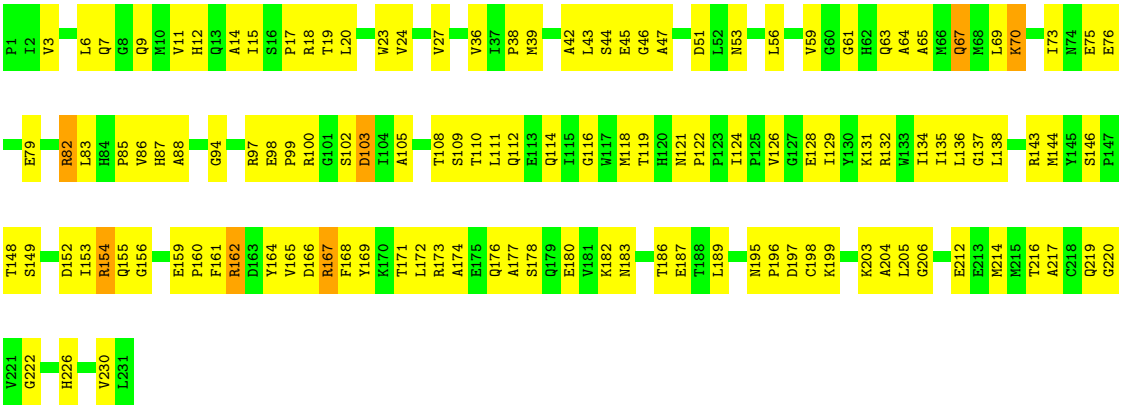
• Molecule 1: capsid protein

Chain 5H:



• Molecule 1: capsid protein

Chain 5I:

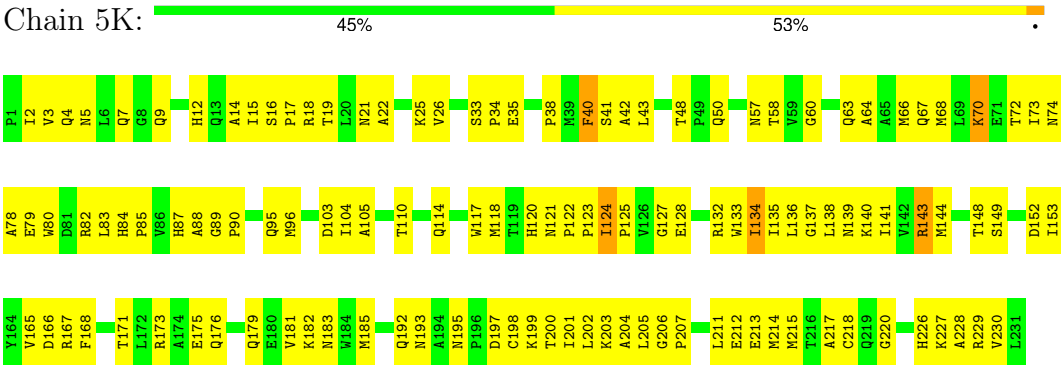


• Molecule 1: capsid protein

Chain 5J:

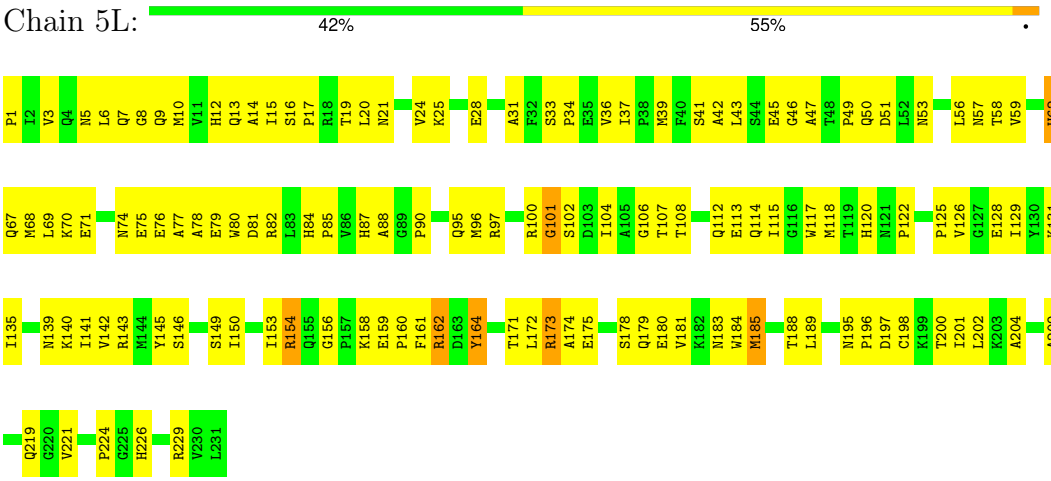
• Molecule 1: capsid protein

Chain 5K:



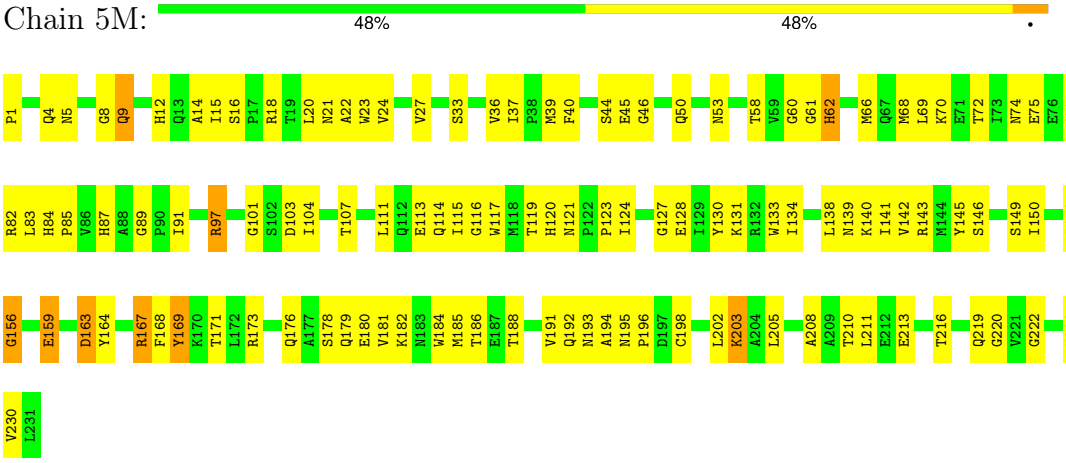
• Molecule 1: capsid protein

Chain 5L:



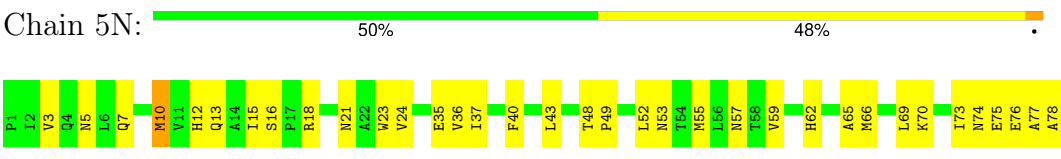
• Molecule 1: capsid protein

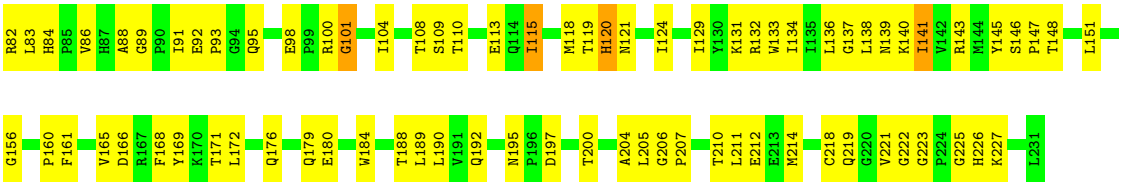
Chain 5M:



• Molecule 1: capsid protein

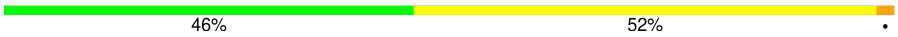
Chain 5N:

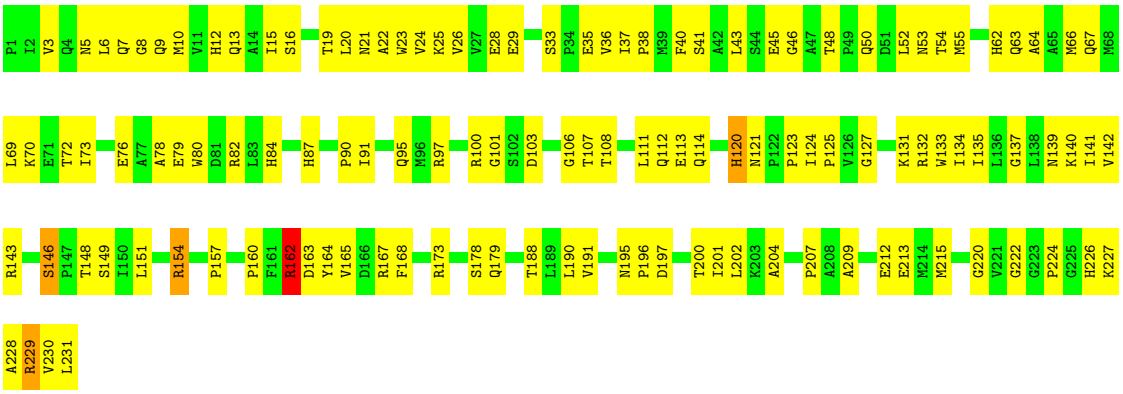




• Molecule 1: capsid protein

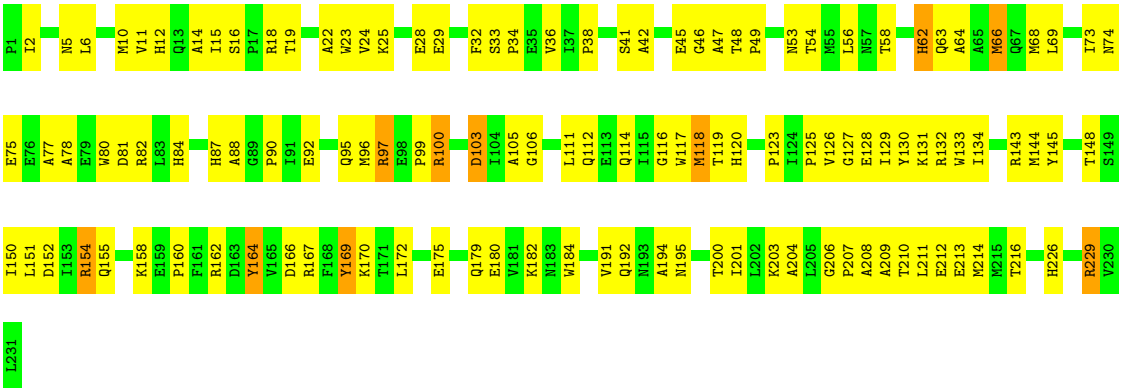
Chain 5O:





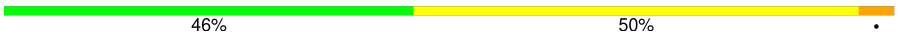
• Molecule 1: capsid protein

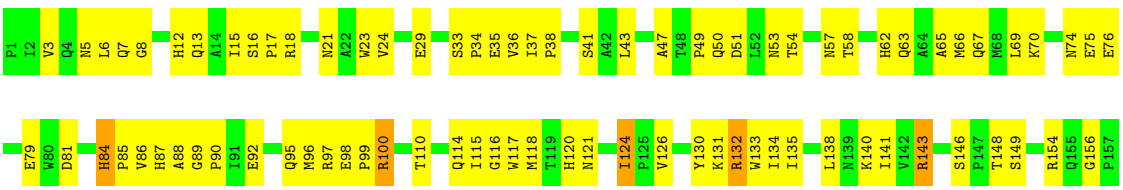
Chain 5P:

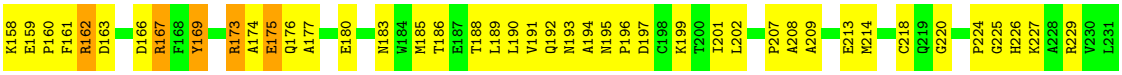


• Molecule 1: capsid protein

Chain 5Q:

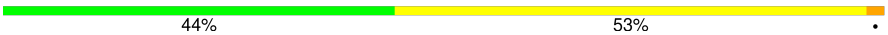






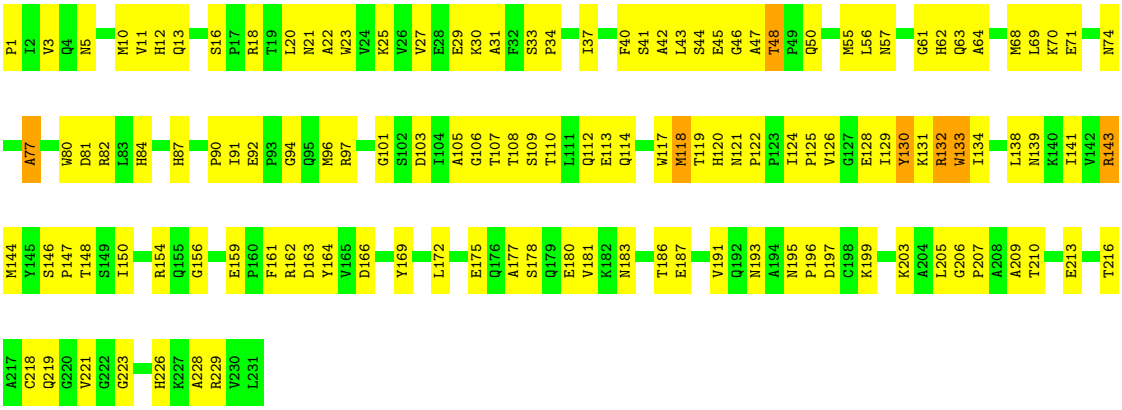
• Molecule 1: capsid protein

Chain 5R:



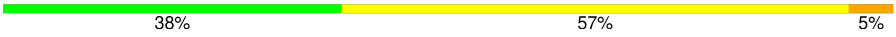
• Molecule 1: capsid protein

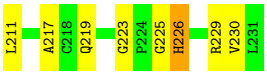
Chain 5S:



• Molecule 1: capsid protein

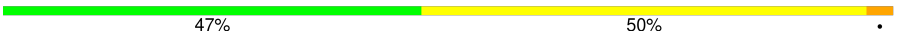
Chain 5T:

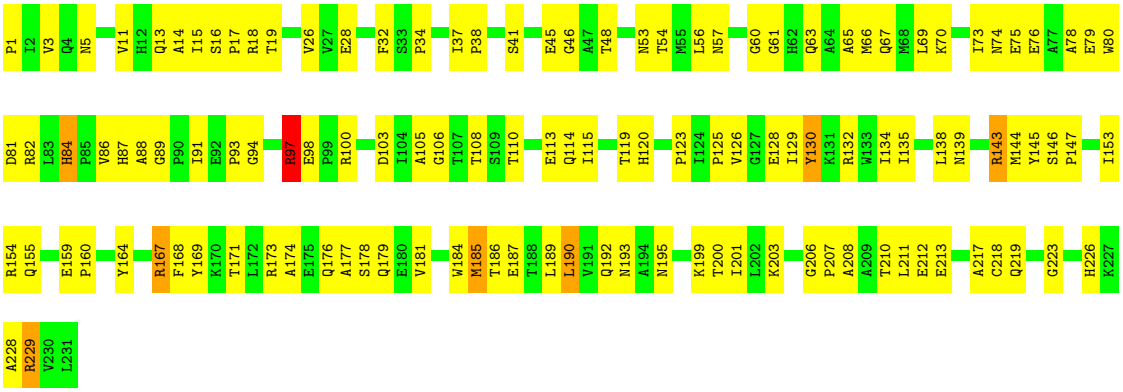




• Molecule 1: capsid protein

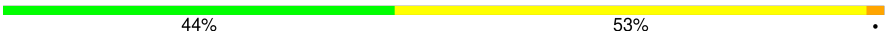
Chain 5U:





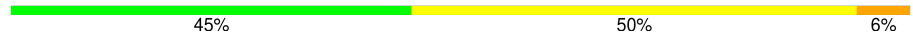
• Molecule 1: capsid protein

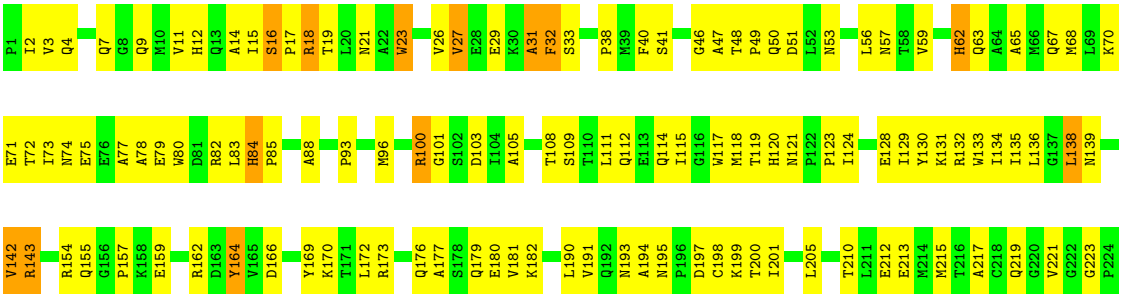
Chain 5V:

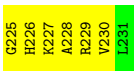


• Molecule 1: capsid protein

Chain 5W:





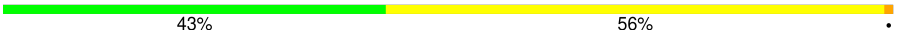


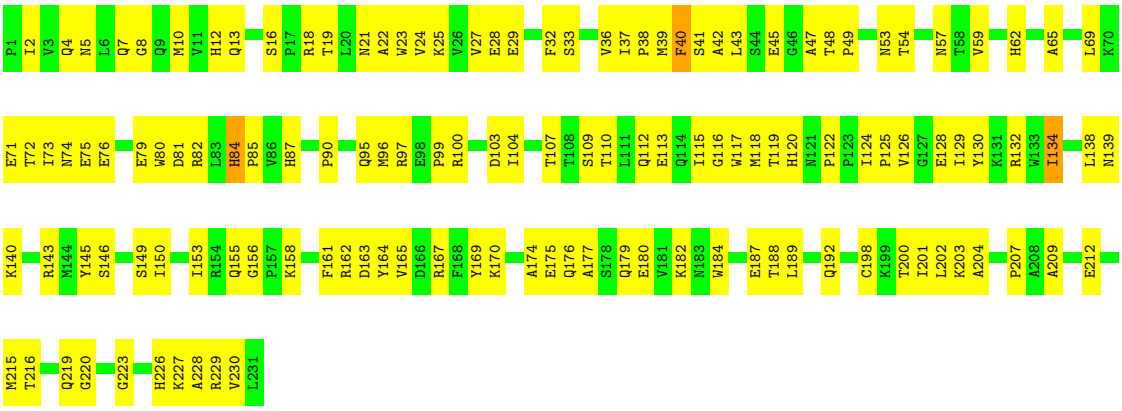
• Molecule 1: capsid protein

Chain 5X:

• Molecule 1: capsid protein

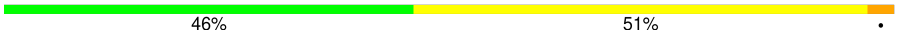
Chain 5Y:





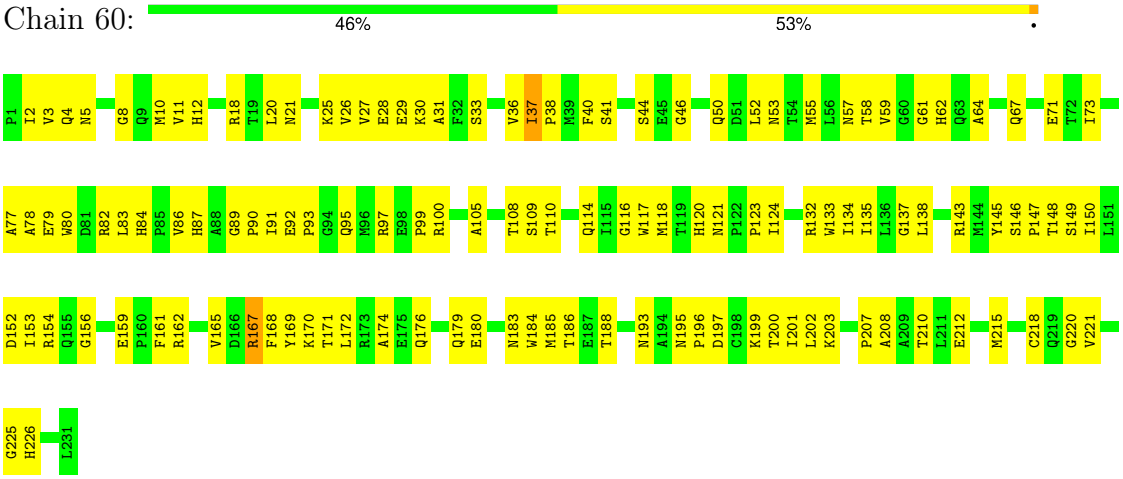
• Molecule 1: capsid protein

Chain 5Z:



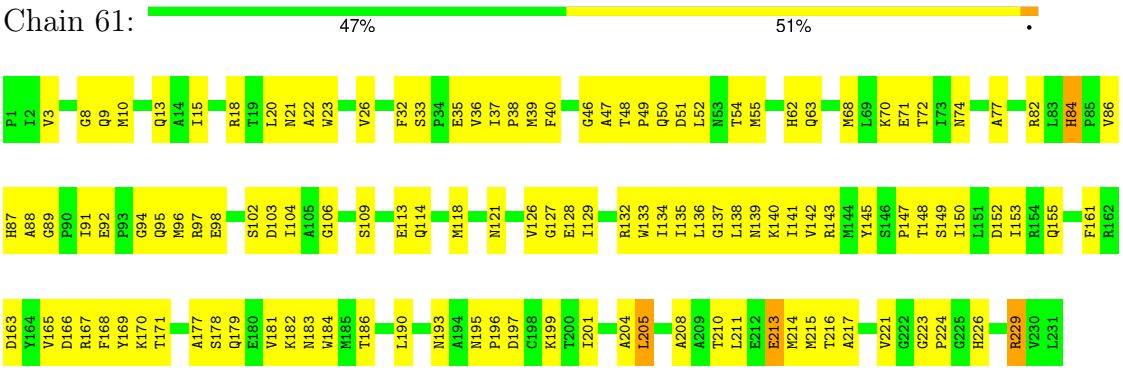
• Molecule 1: capsid protein

Chain 60:



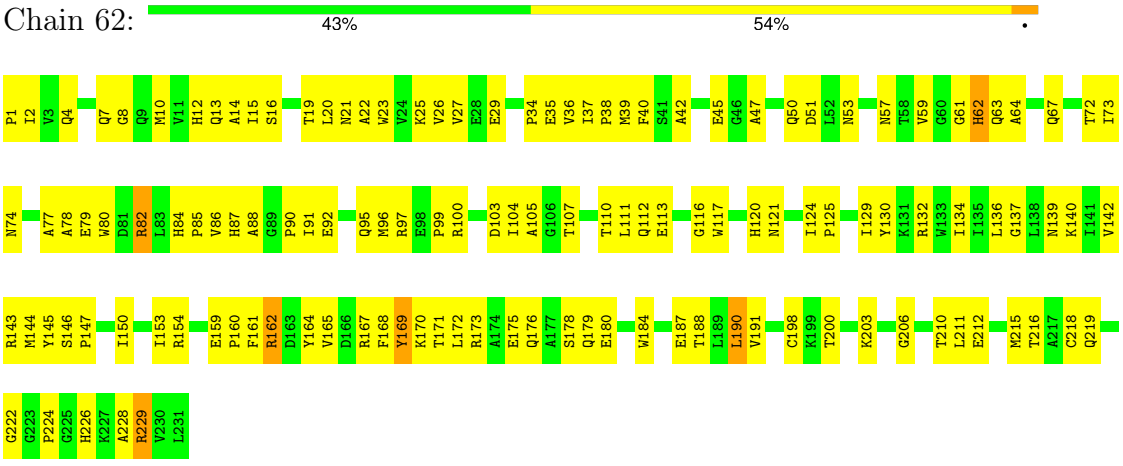
• Molecule 1: capsid protein

Chain 61:



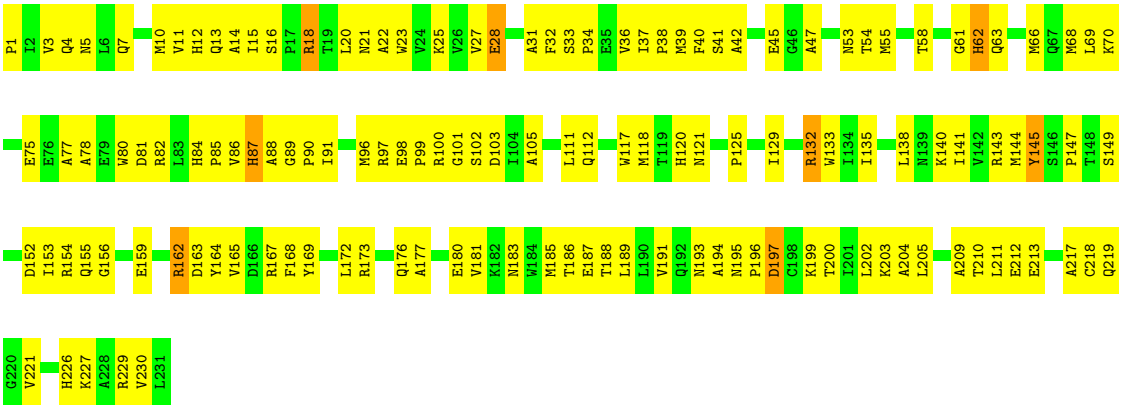
• Molecule 1: capsid protein

Chain 62:



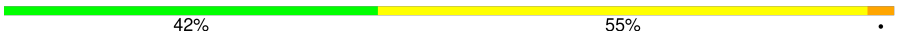
• Molecule 1: capsid protein

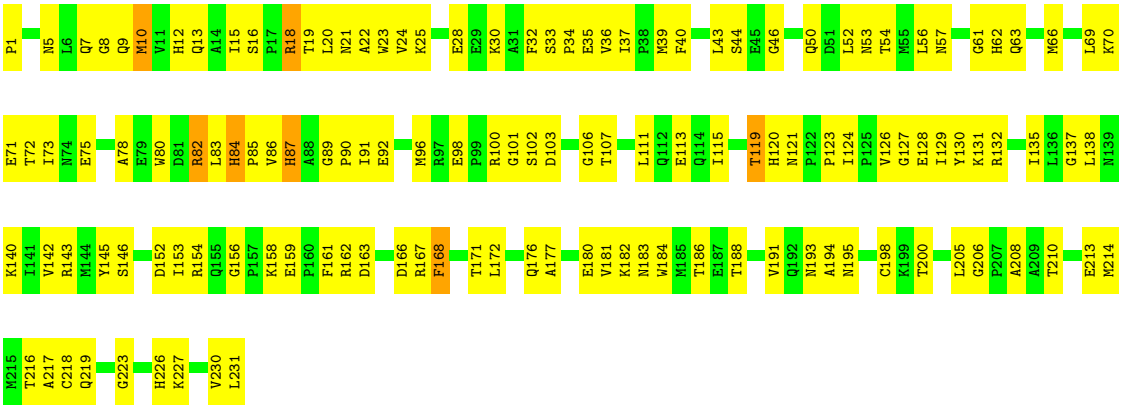
Chain 63:



• Molecule 1: capsid protein

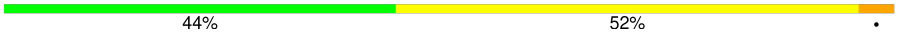
Chain 64:

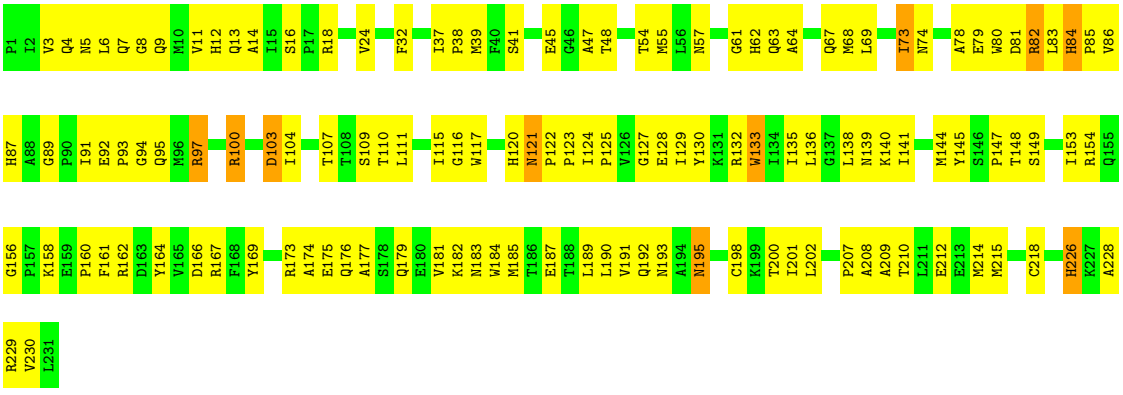




• Molecule 1: capsid protein

Chain 65:





• Molecule 1: capsid protein

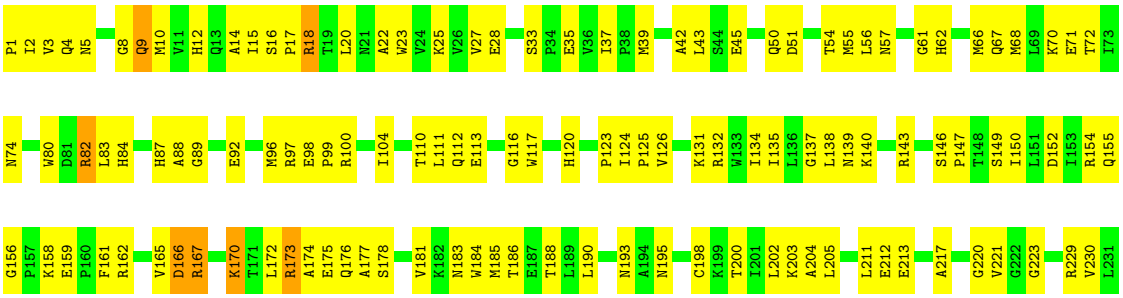
Chain 66:

• Molecule 1: capsid protein

Chain 67:

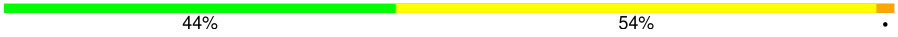
• Molecule 1: capsid protein

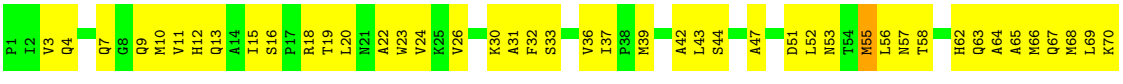
Chain 68:

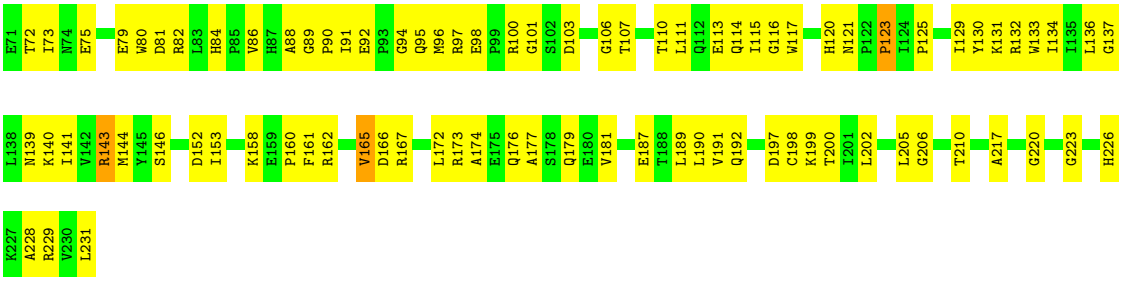


• Molecule 1: capsid protein

Chain 69:

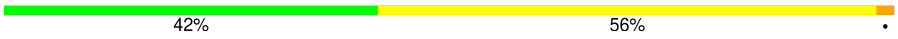






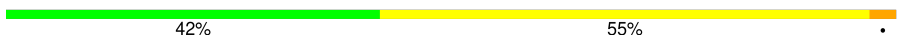
• Molecule 1: capsid protein

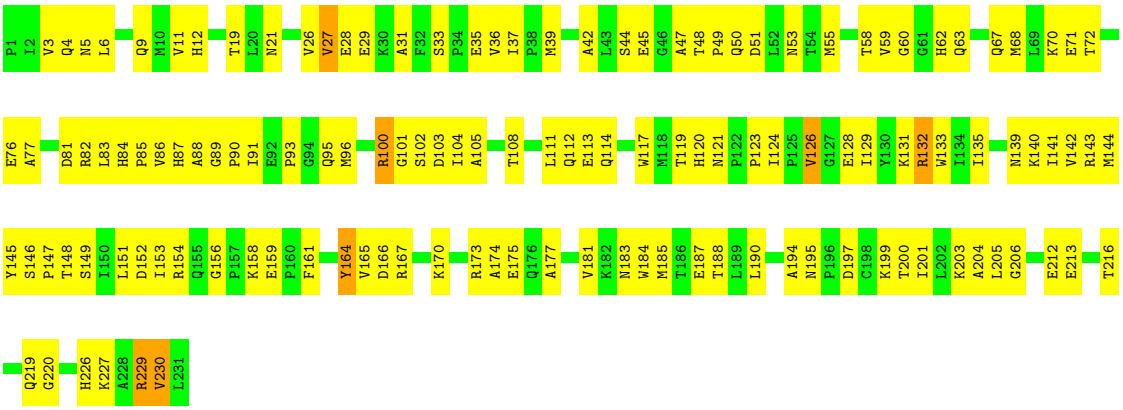
Chain 6a:



• Molecule 1: capsid protein

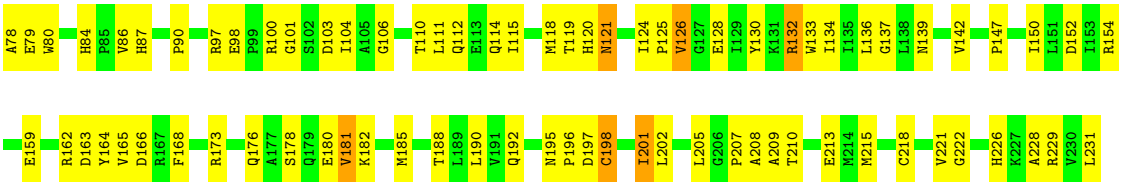
Chain 6b:





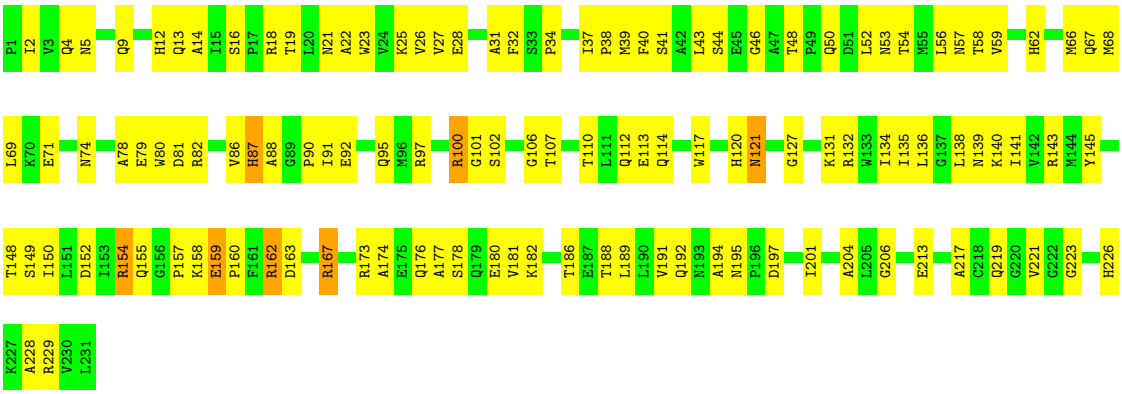
• Molecule 1: capsid protein

Chain 6c:



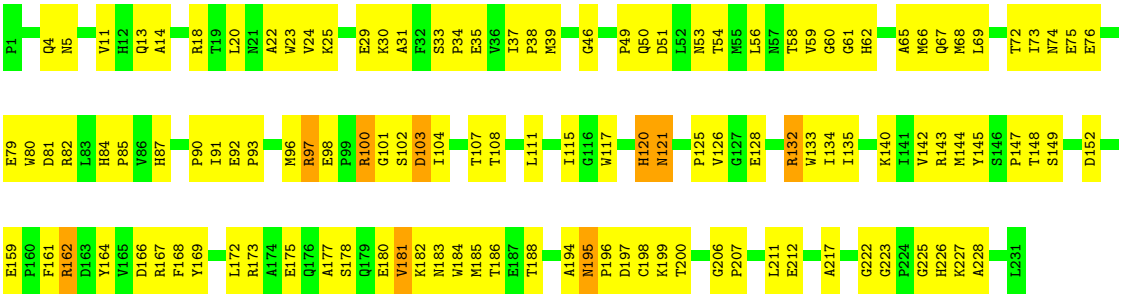
• Molecule 1: capsid protein

Chain 6d:



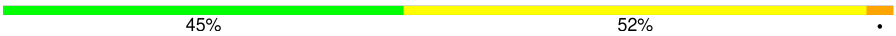
• Molecule 1: capsid protein

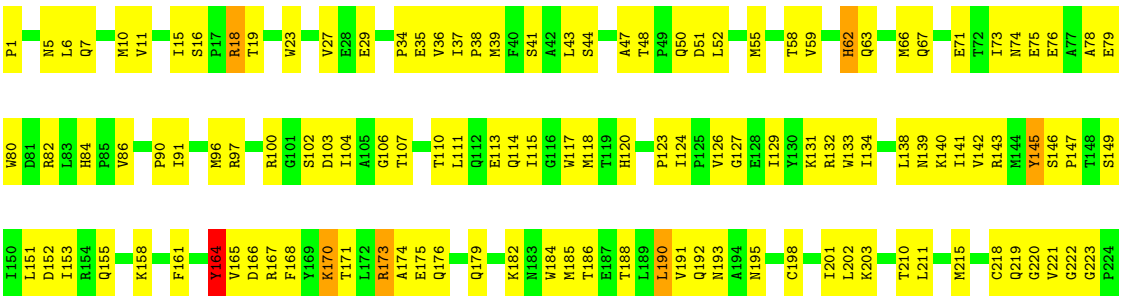
Chain 6e:



• Molecule 1: capsid protein

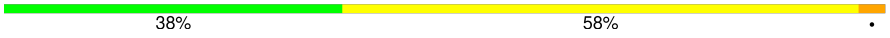
Chain 6f:

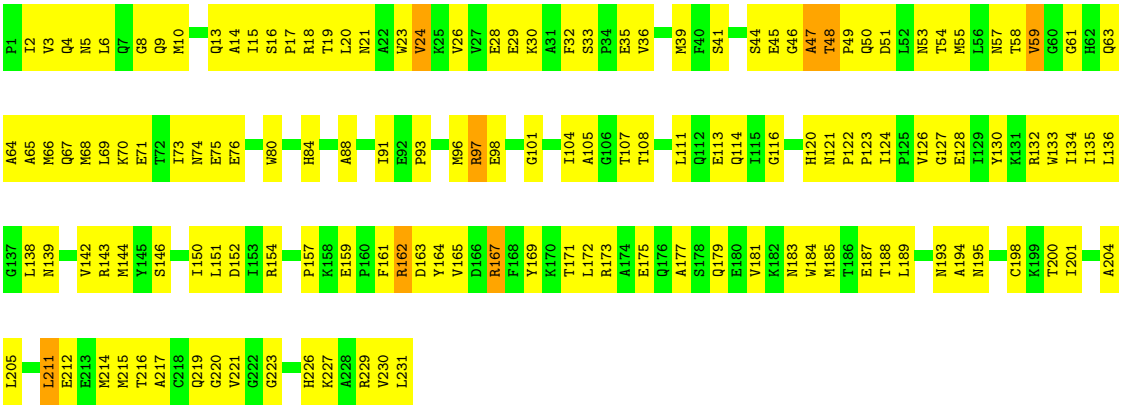




• Molecule 1: capsid protein

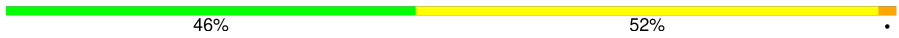
Chain 6g:





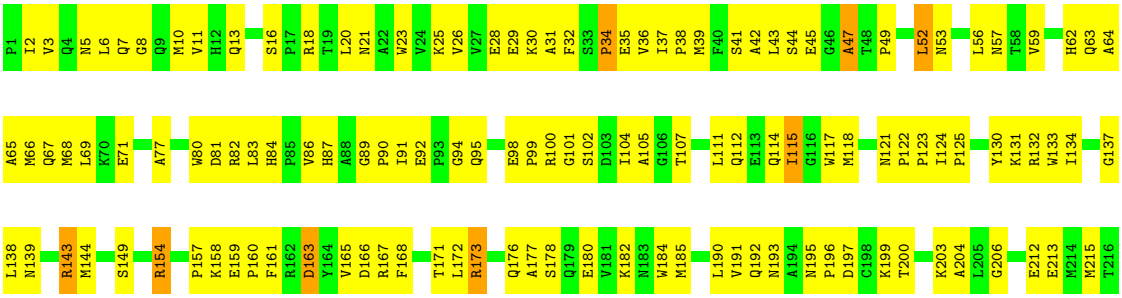
• Molecule 1: capsid protein

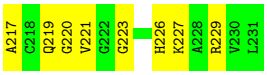
Chain 6h:



• Molecule 1: capsid protein

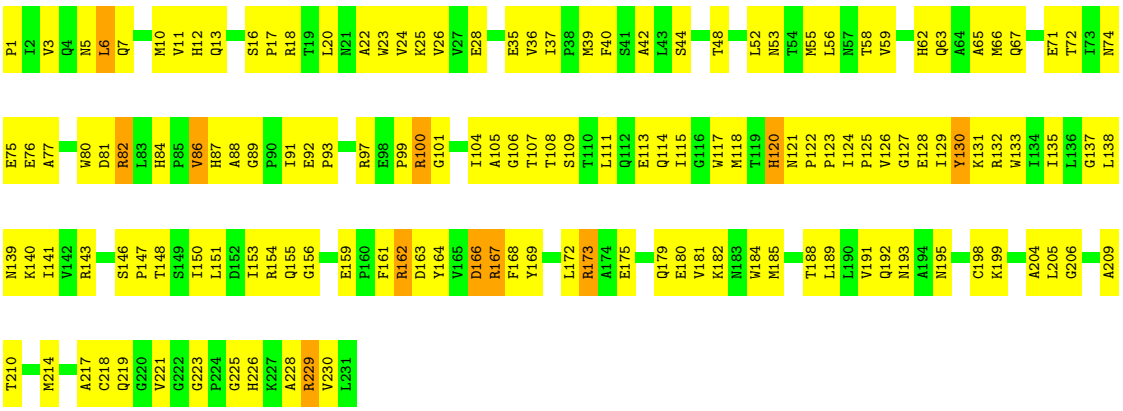
Chain 6i:





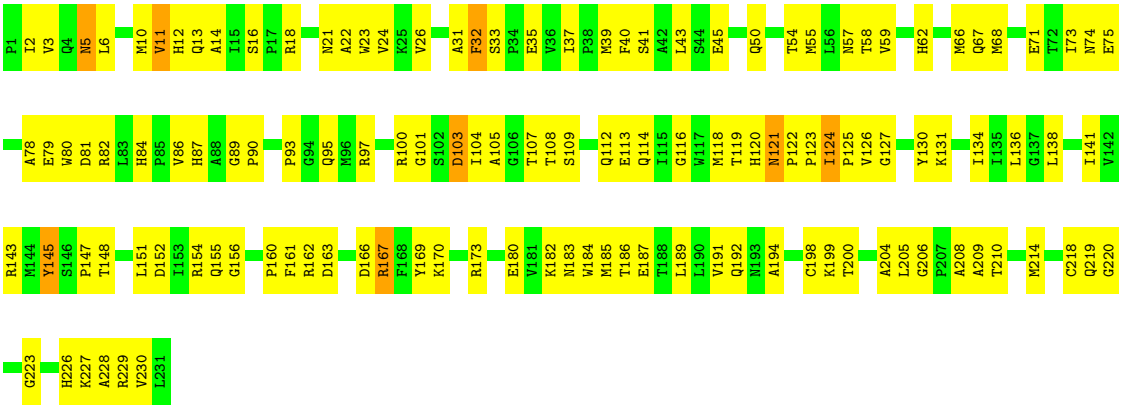
• Molecule 1: capsid protein

Chain 6j:



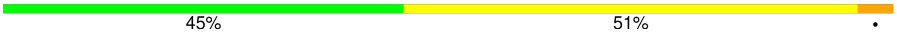
• Molecule 1: capsid protein

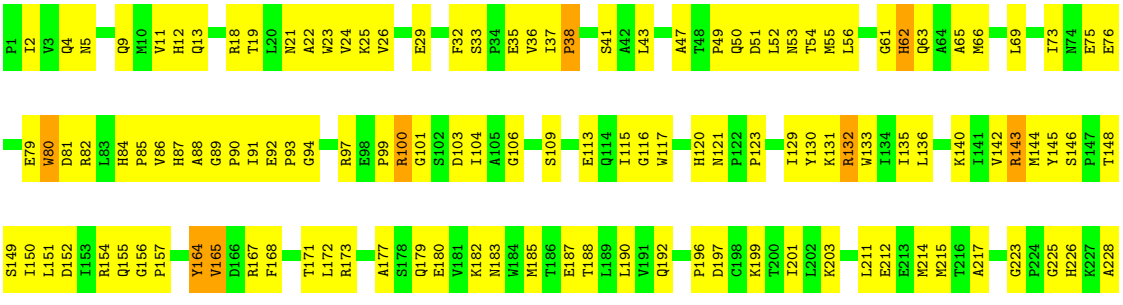
Chain 6k:



• Molecule 1: capsid protein

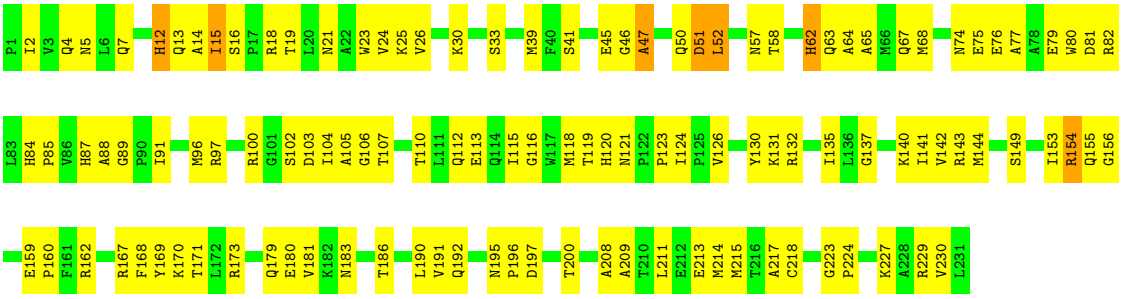
Chain 6l:





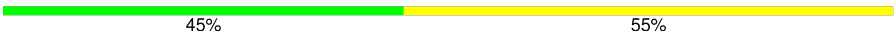
• Molecule 1: capsid protein

Chain 6m:



• Molecule 1: capsid protein

Chain 6n:

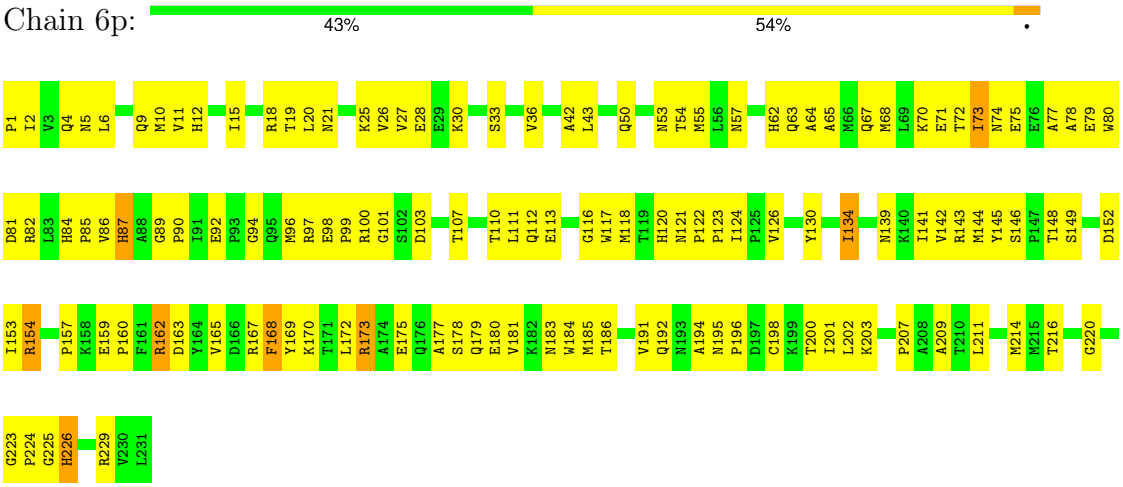


• Molecule 1: capsid protein

Chain 6o:

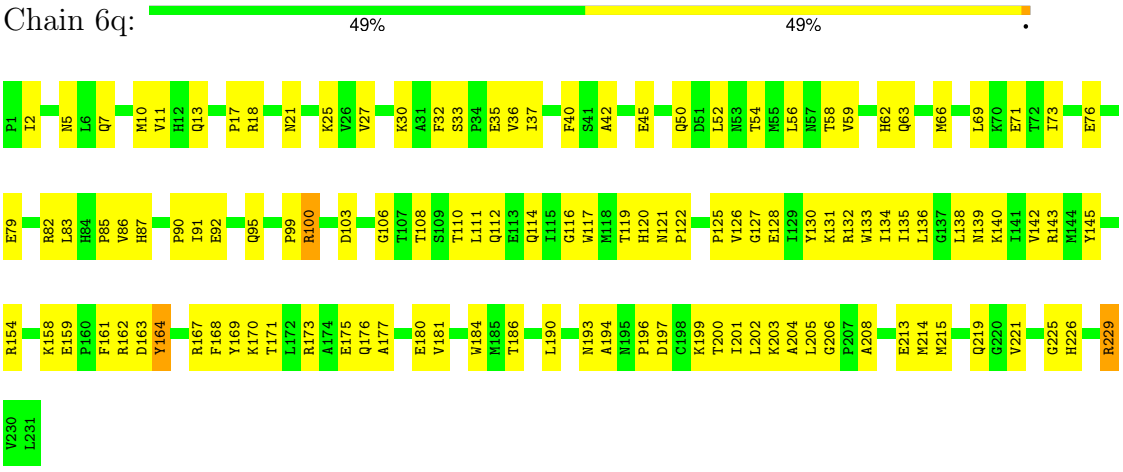
• Molecule 1: capsid protein

Chain 6p:



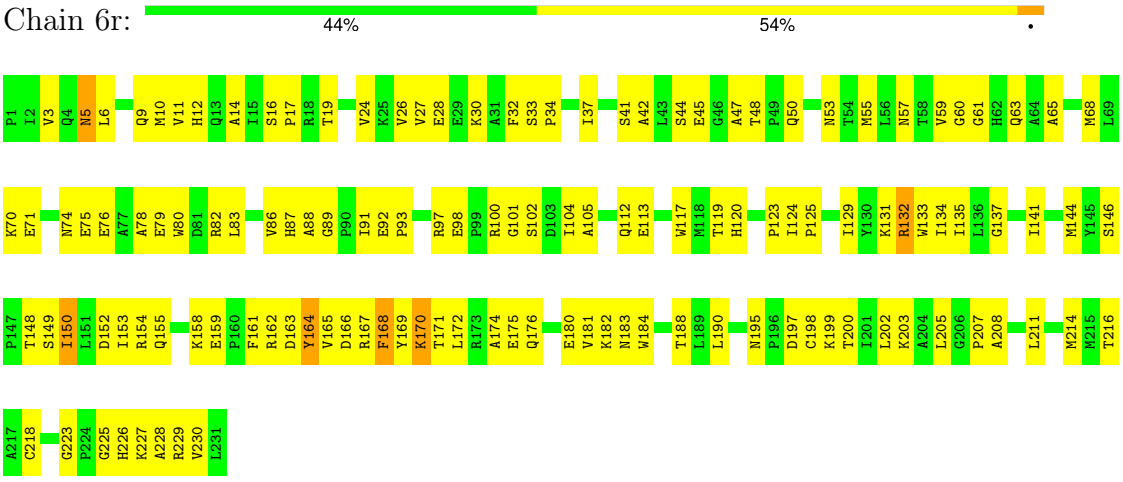
• Molecule 1: capsid protein

Chain 6q:



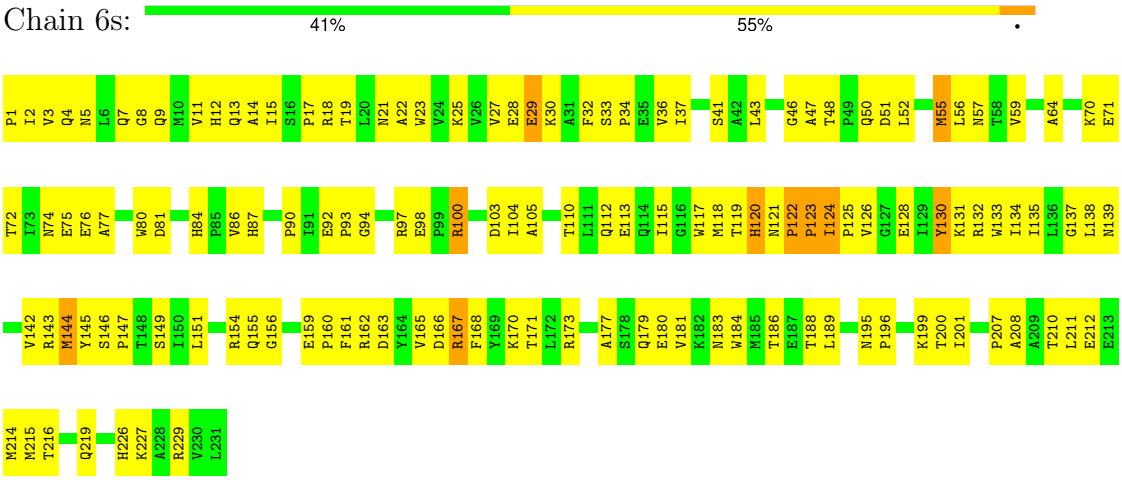
• Molecule 1: capsid protein

Chain 6r:



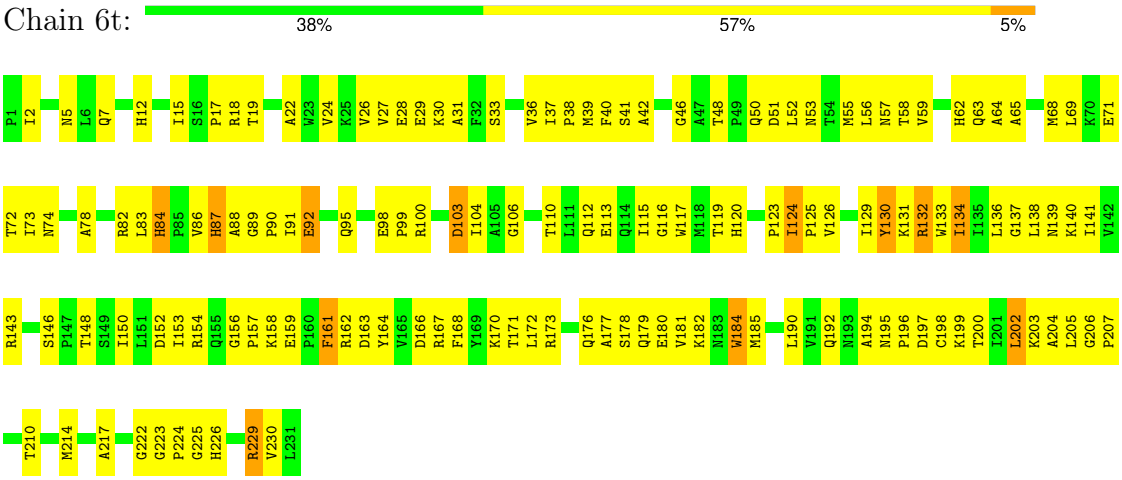
• Molecule 1: capsid protein

Chain 6s:



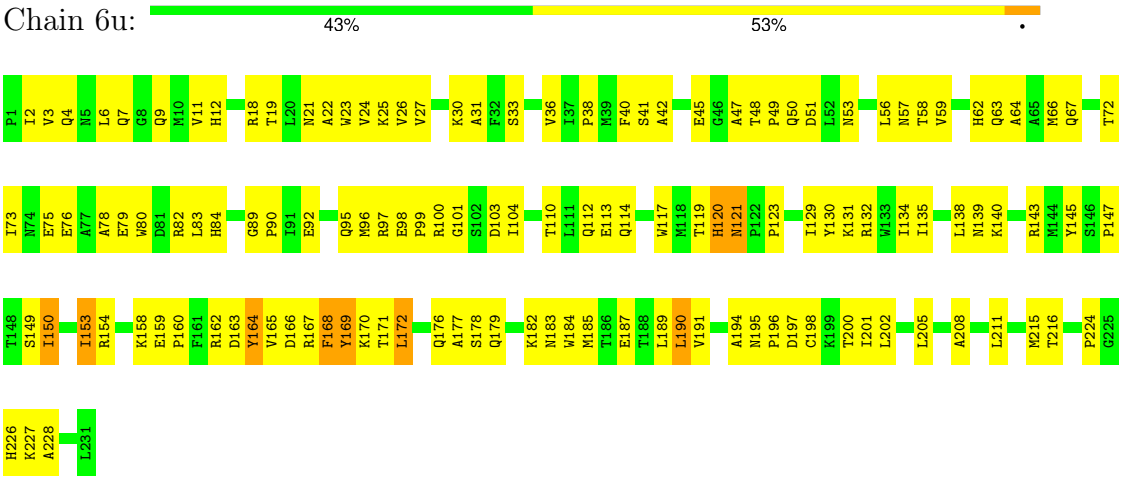
• Molecule 1: capsid protein

Chain 6t:



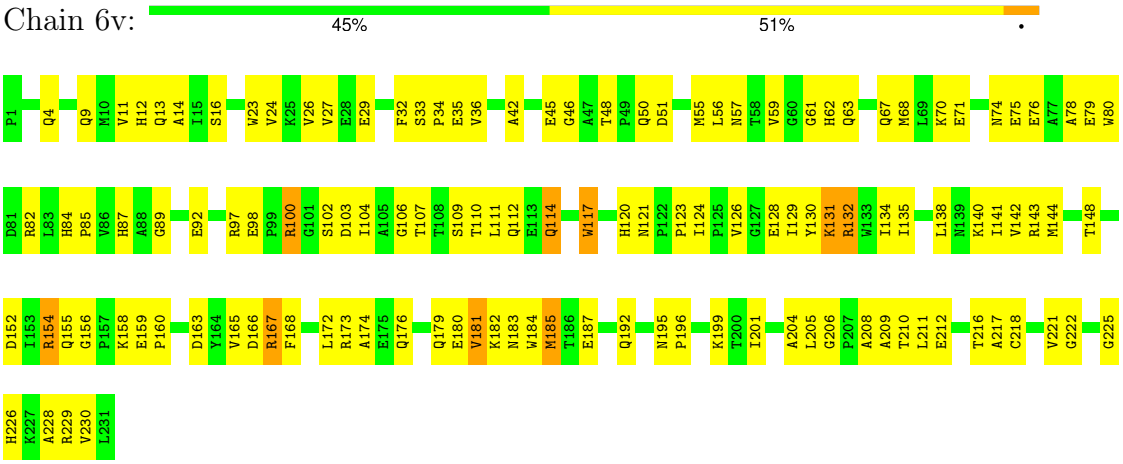
• Molecule 1: capsid protein

Chain 6u:



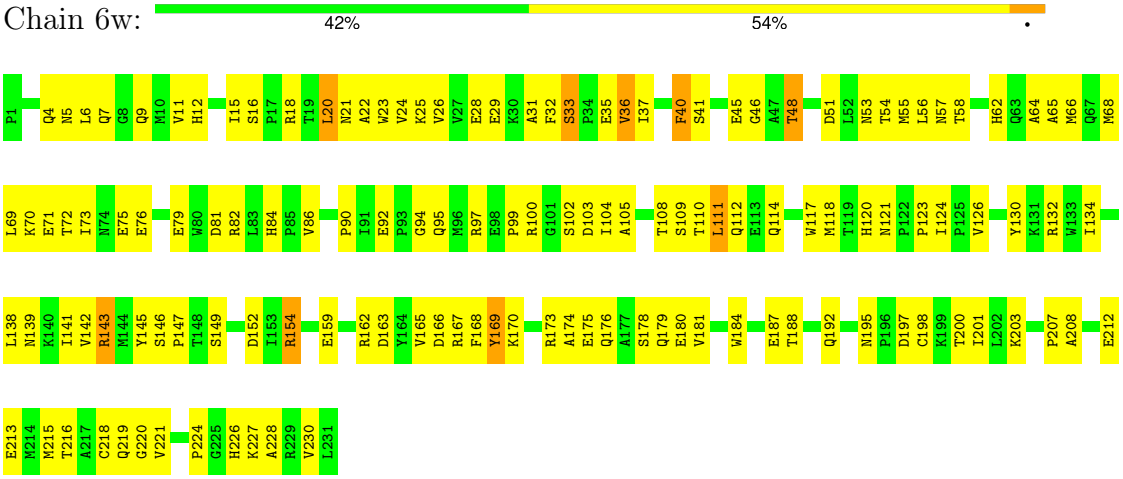
• Molecule 1: capsid protein

Chain 6v:



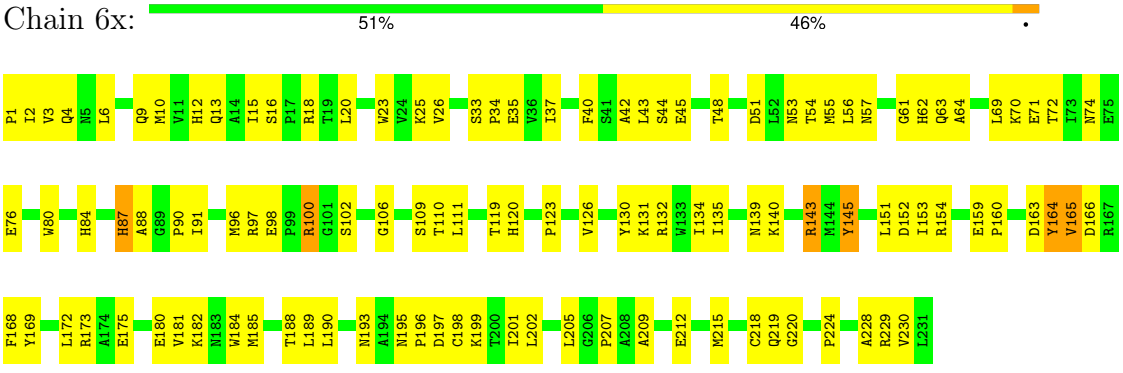
• Molecule 1: capsid protein

Chain 6w:



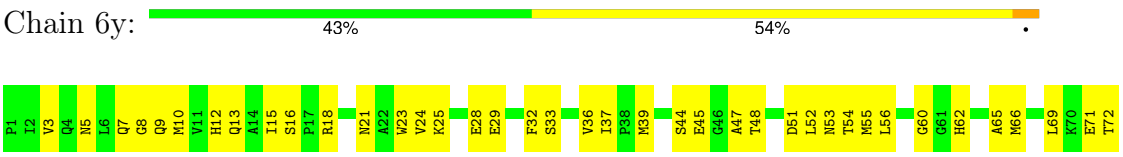
• Molecule 1: capsid protein

Chain 6x:



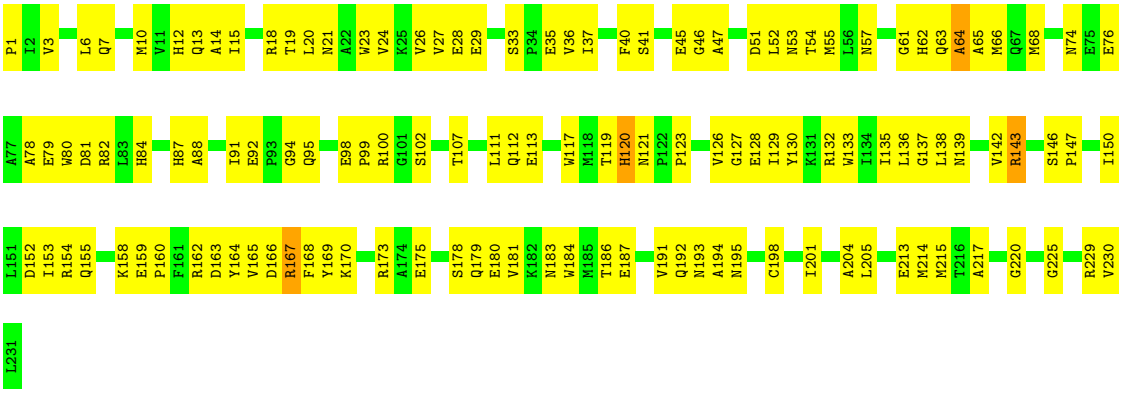
• Molecule 1: capsid protein

Chain 6y:



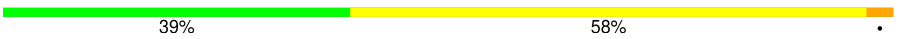
• Molecule 1: capsid protein

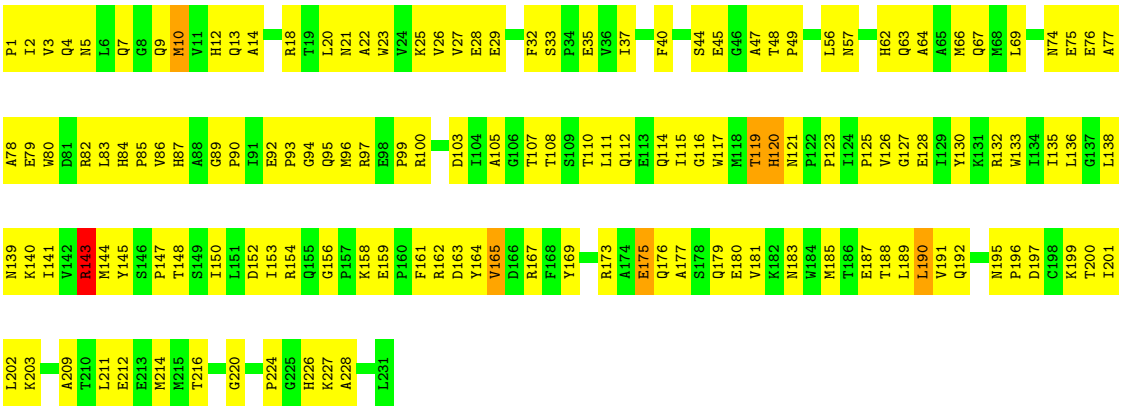
Chain 6z:



• Molecule 1: capsid protein

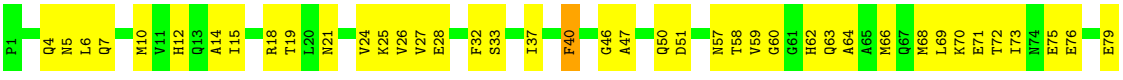
Chain 6A:

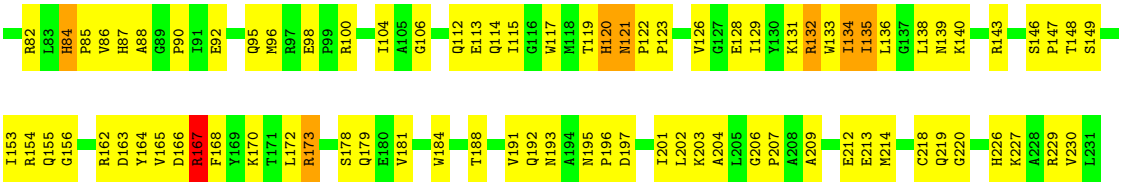




• Molecule 1: capsid protein

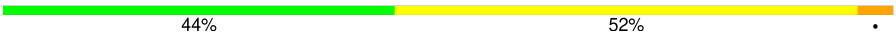
Chain 6B:

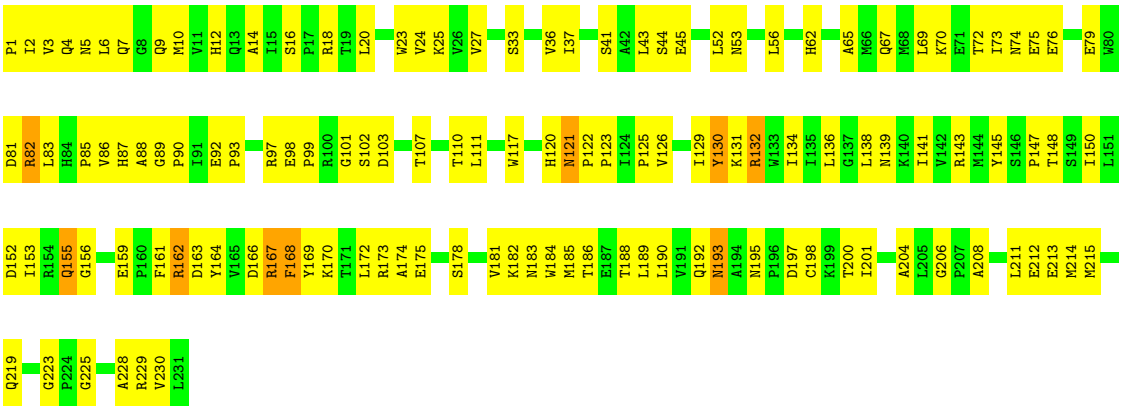




• Molecule 1: capsid protein

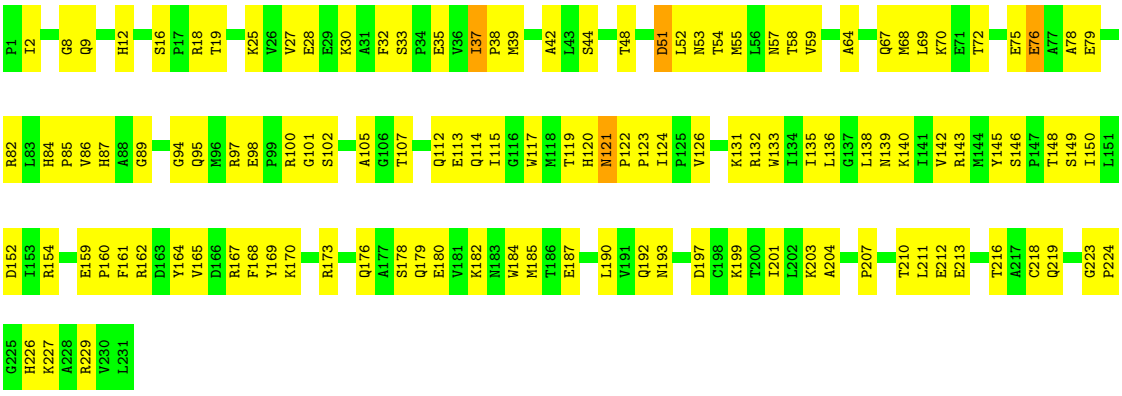
Chain 6C:





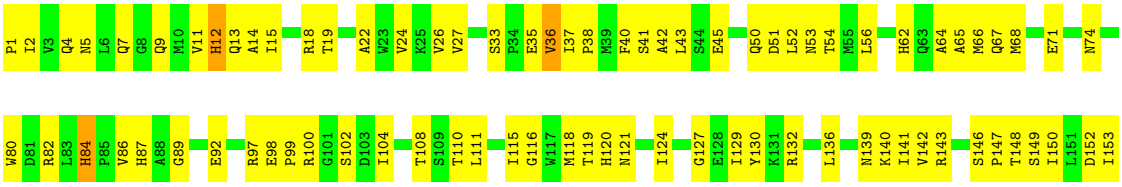
• Molecule 1: capsid protein

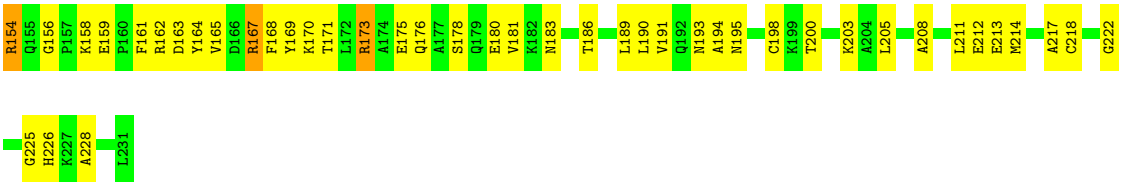
Chain 6D:



• Molecule 1: capsid protein

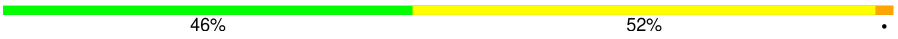
Chain 6E:

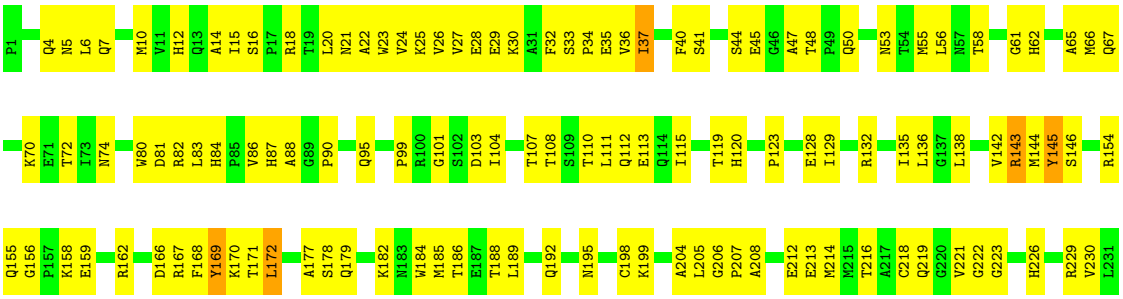




• Molecule 1: capsid protein

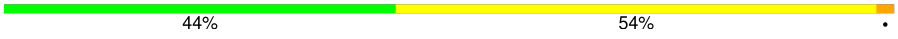
Chain 6F:

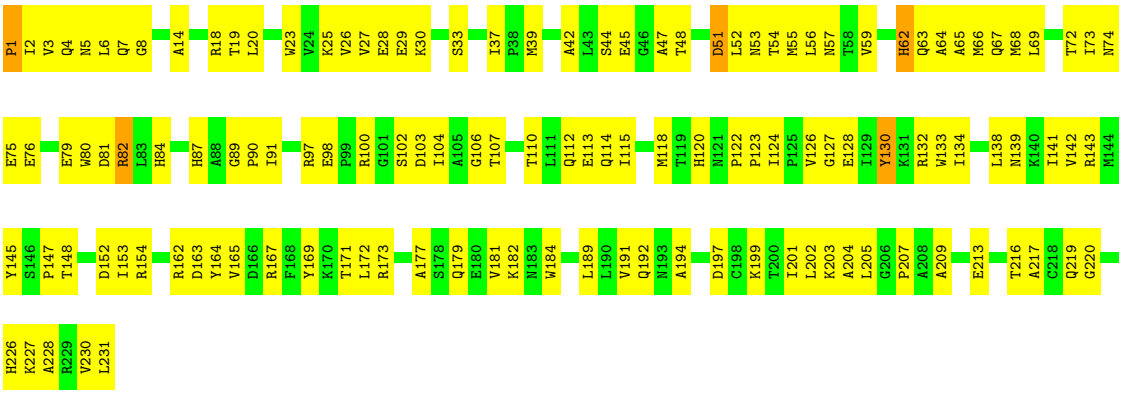




• Molecule 1: capsid protein

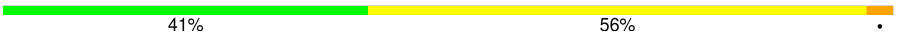
Chain 6G:

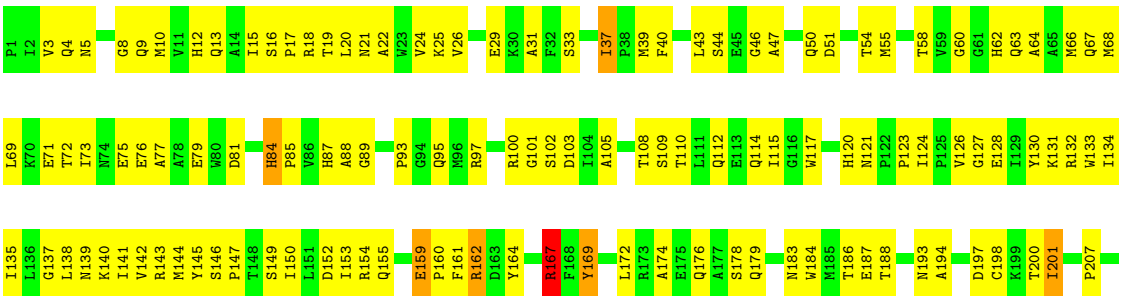


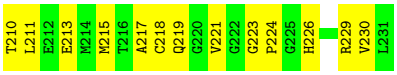


• Molecule 1: capsid protein

Chain 6H:

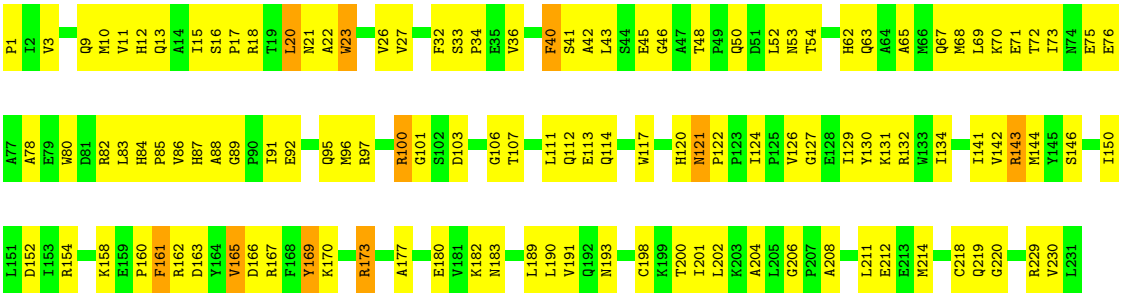






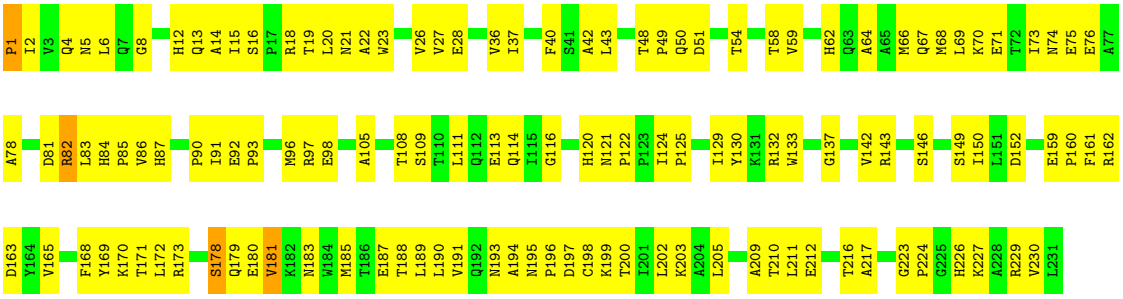
• Molecule 1: capsid protein

Chain 6I:



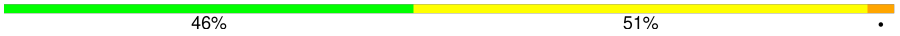
• Molecule 1: capsid protein

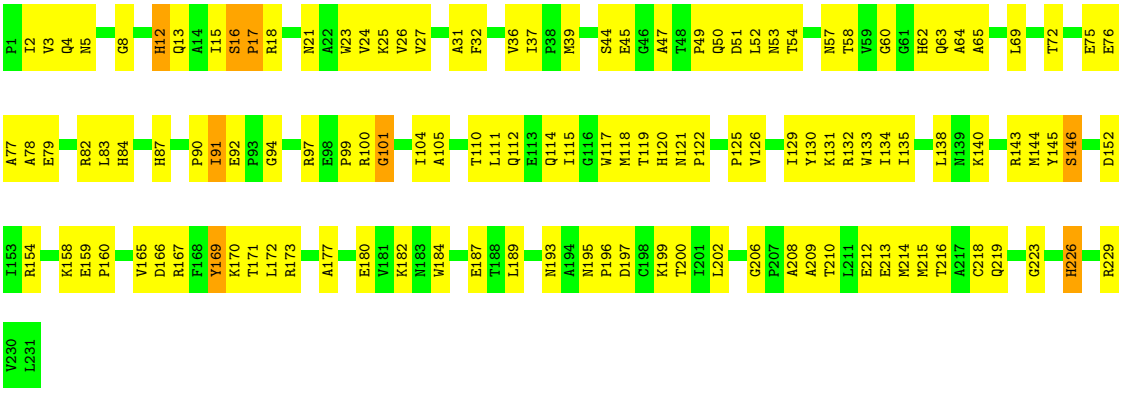
Chain 6J:



• Molecule 1: capsid protein

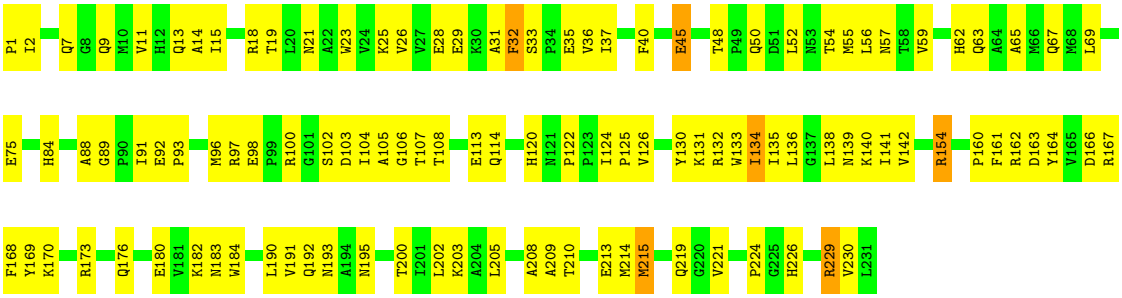
Chain 6K:





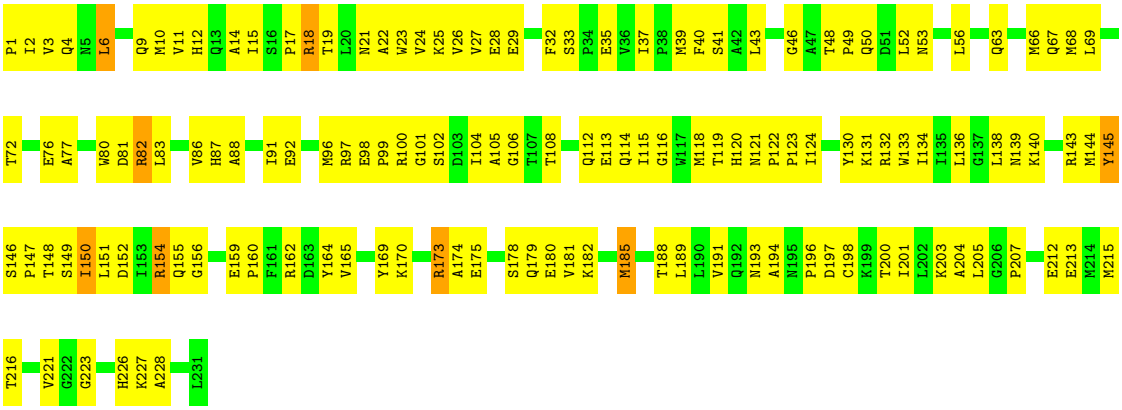
• Molecule 1: capsid protein

Chain 6L:



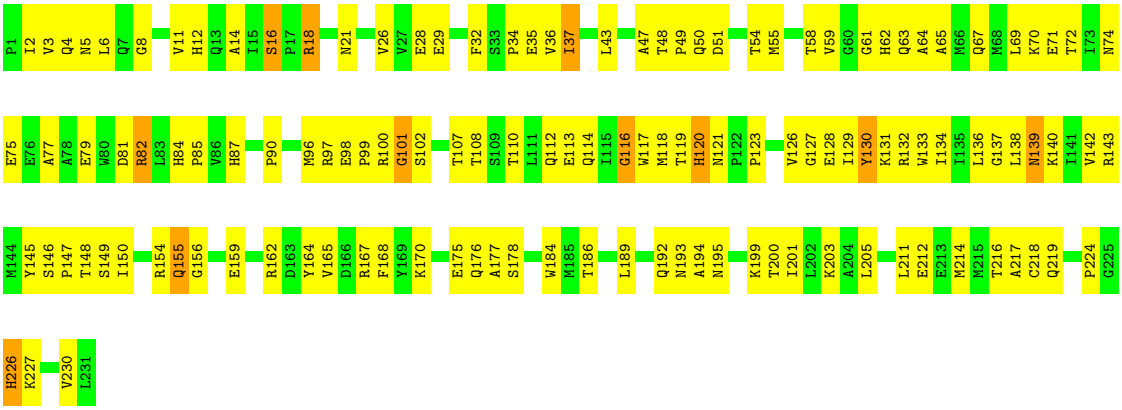
• Molecule 1: capsid protein

Chain 6M:



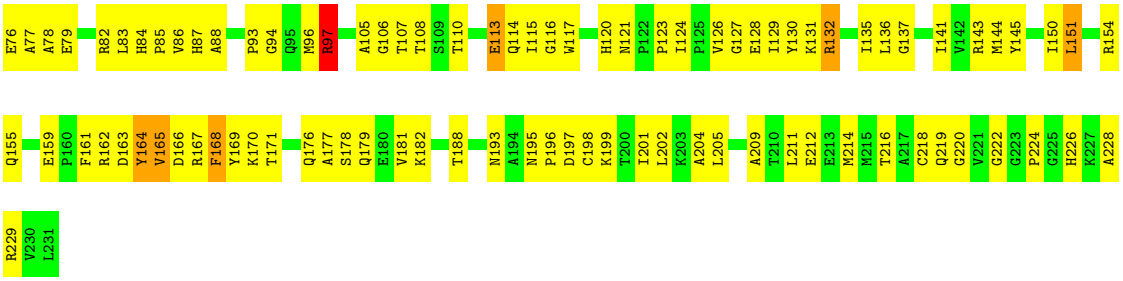
• Molecule 1: capsid protein

Chain 6N:



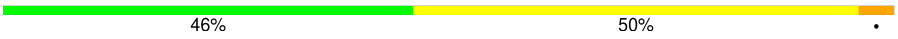
• Molecule 1: capsid protein

Chain 6O:



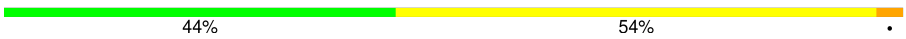
• Molecule 1: capsid protein

Chain 6P:



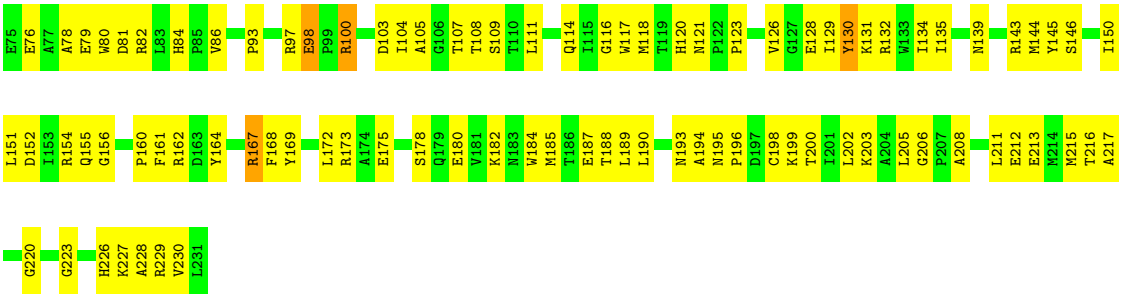
• Molecule 1: capsid protein

Chain 6Q:



• Molecule 1: capsid protein

Chain 6R:

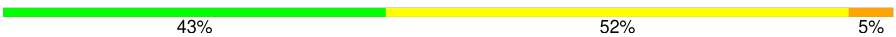


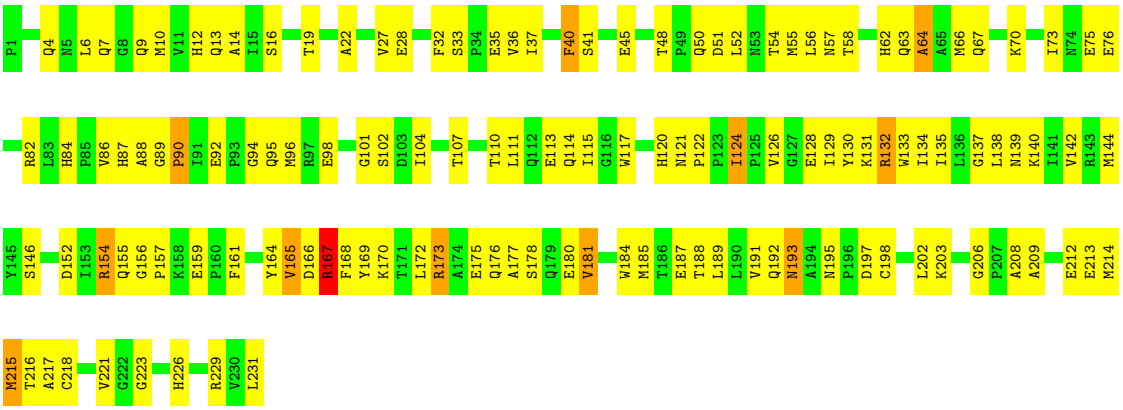
• Molecule 1: capsid protein

Chain 6S:

• Molecule 1: capsid protein

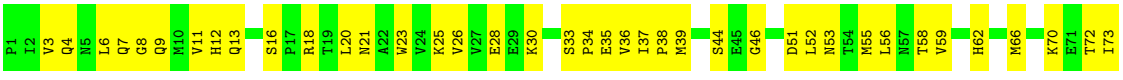
Chain 6T:

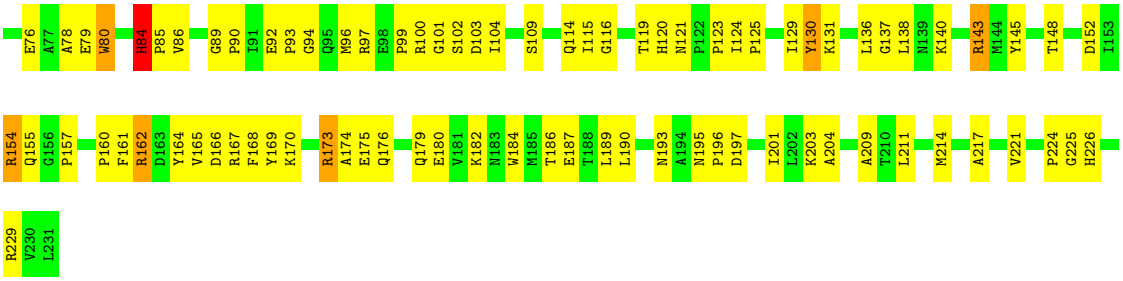




• Molecule 1: capsid protein

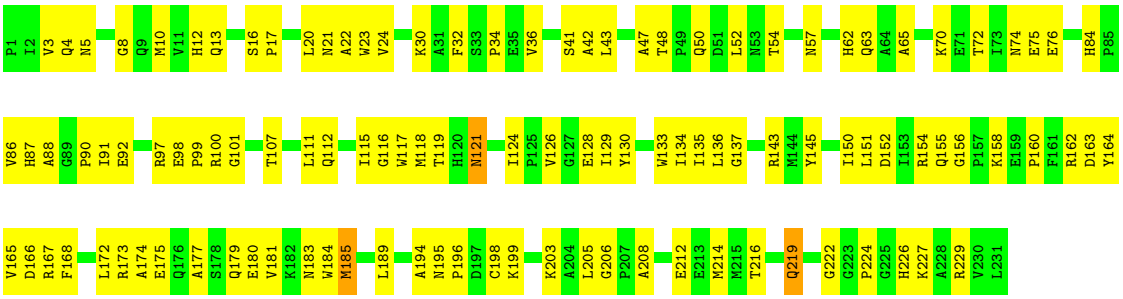
Chain 6U:





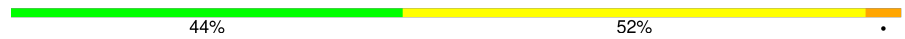
• Molecule 1: capsid protein

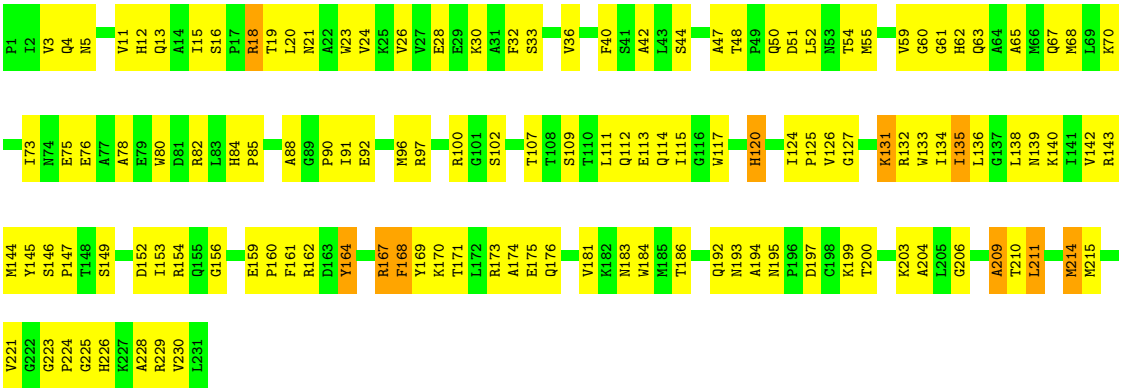
Chain 6V:



• Molecule 1: capsid protein

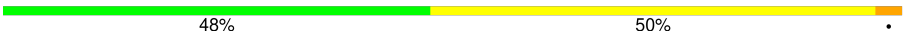
Chain 6W:

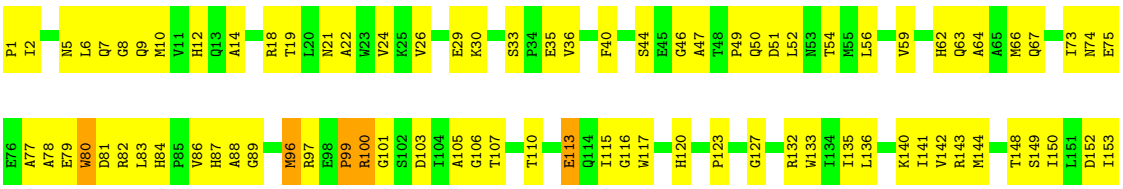


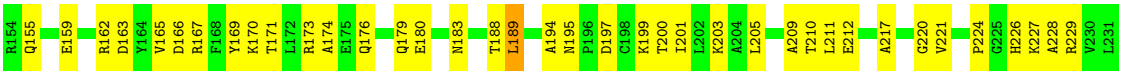


• Molecule 1: capsid protein

Chain 6X:





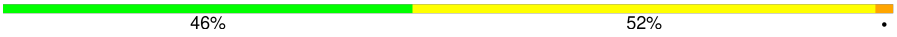


• Molecule 1: capsid protein

Chain 6Y:

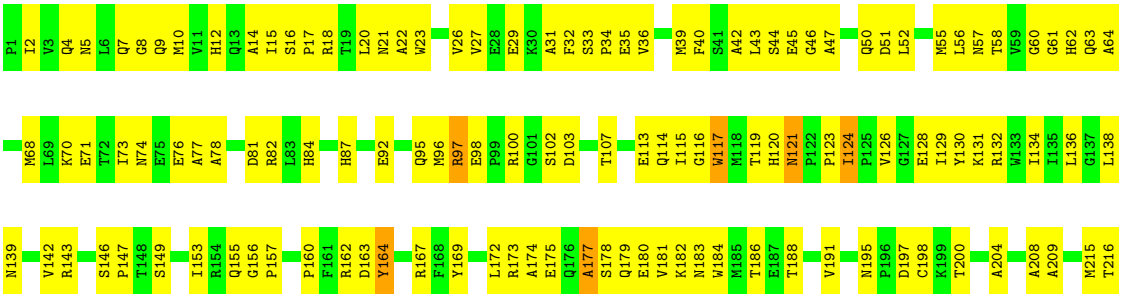
• Molecule 1: capsid protein

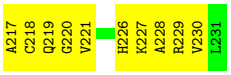
Chain 6Z:



• Molecule 1: capsid protein

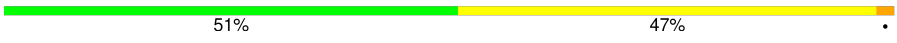
Chain 70:





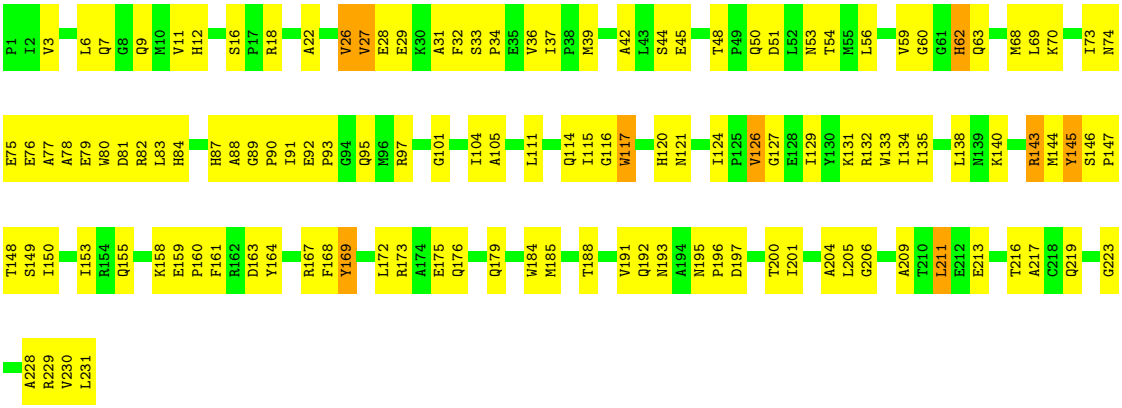
• Molecule 1: capsid protein

Chain 71:



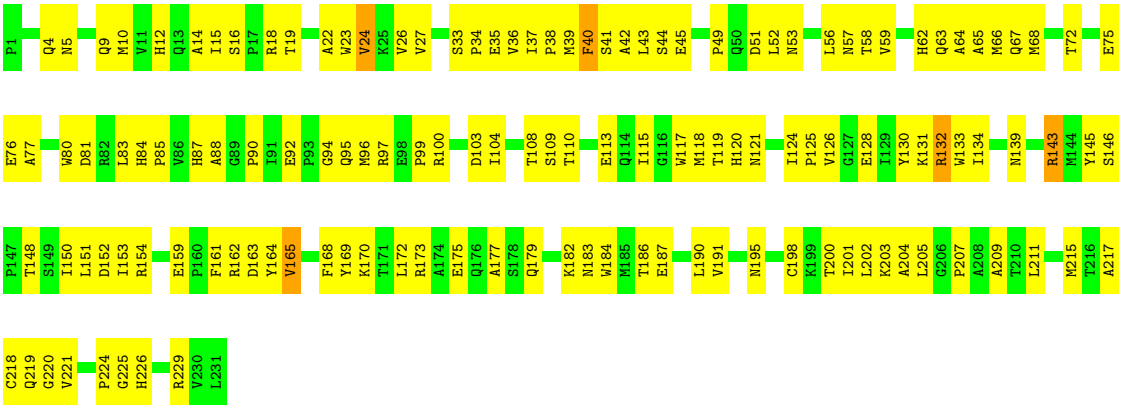
• Molecule 1: capsid protein

Chain 72:



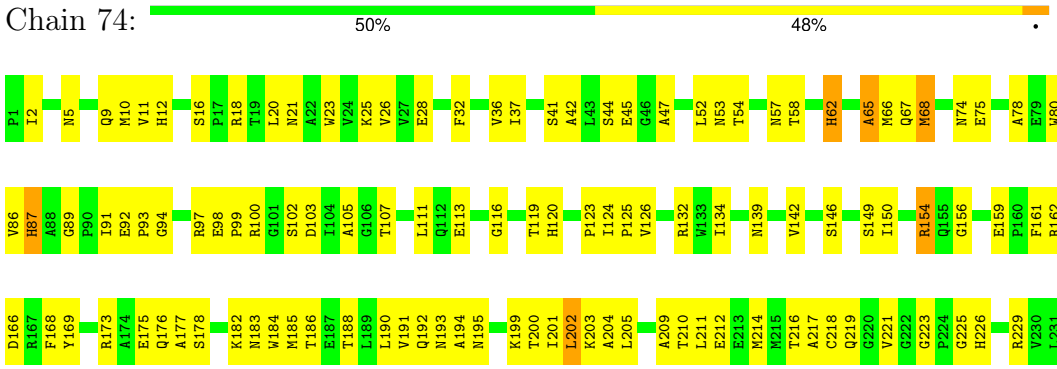
• Molecule 1: capsid protein

Chain 73:



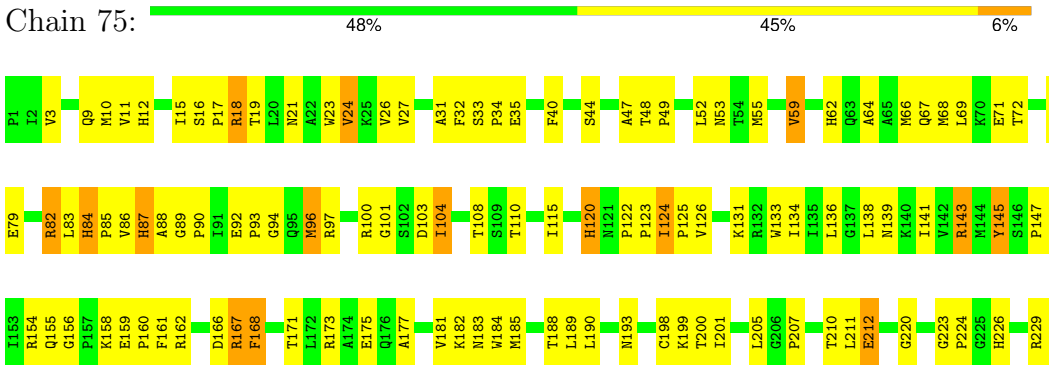
• Molecule 1: capsid protein

Chain 74:



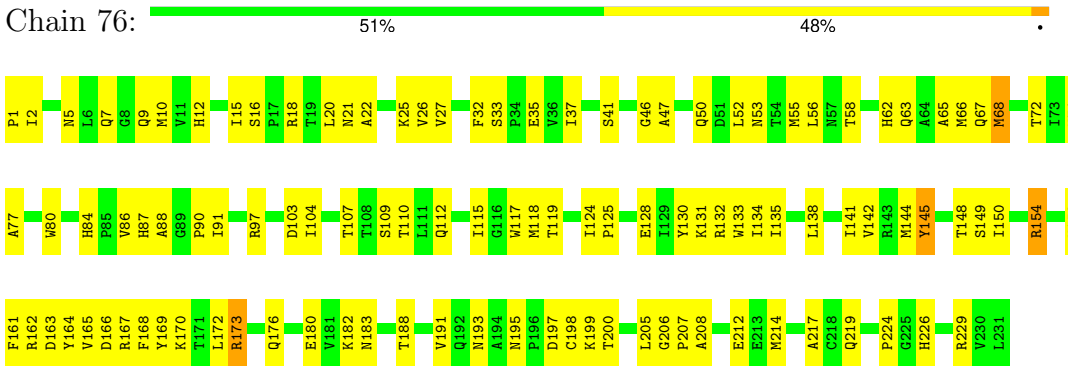
• Molecule 1: capsid protein

Chain 75:



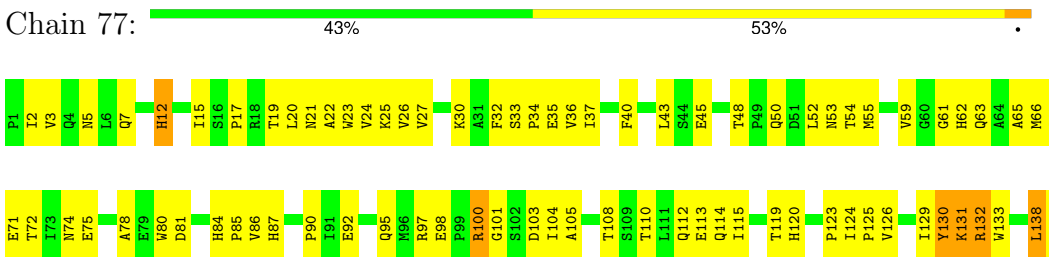
• Molecule 1: capsid protein

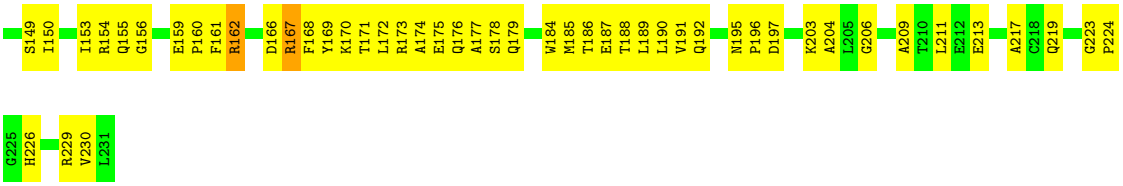
Chain 76:



• Molecule 1: capsid protein

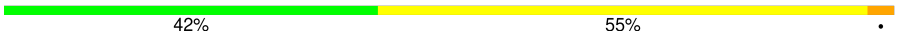
Chain 77:

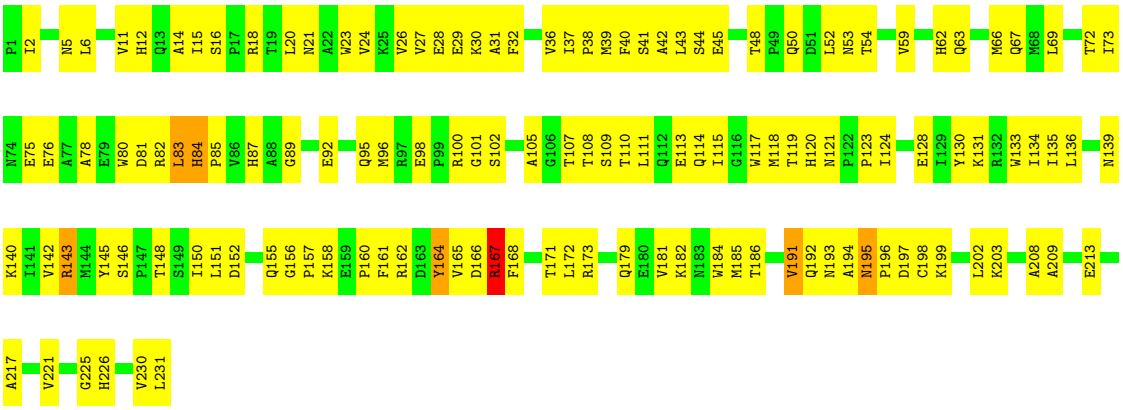




• Molecule 1: capsid protein

Chain 78:



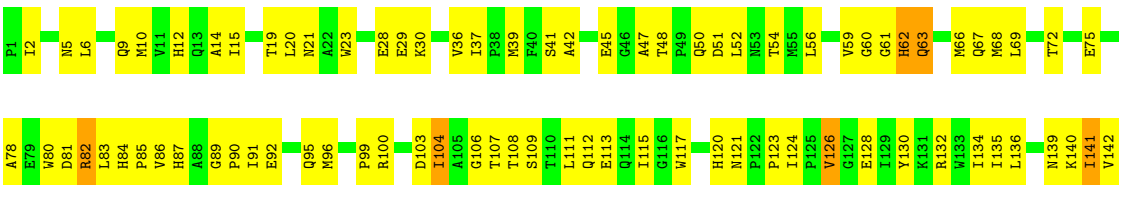


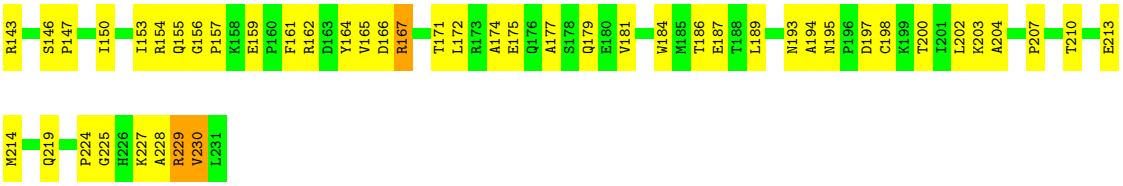
• Molecule 1: capsid protein

Chain 79:

• Molecule 1: capsid protein

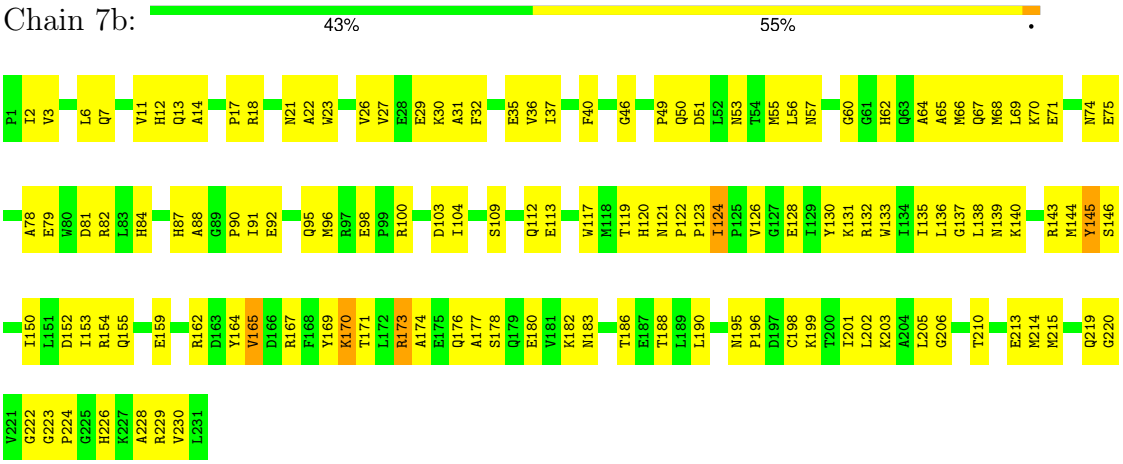
Chain 7a:





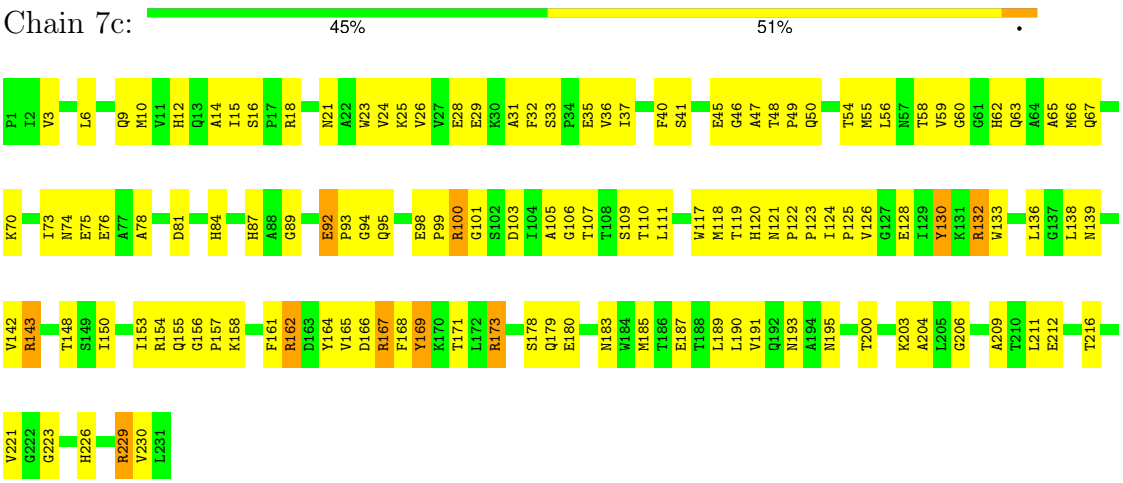
• Molecule 1: capsid protein

Chain 7b:



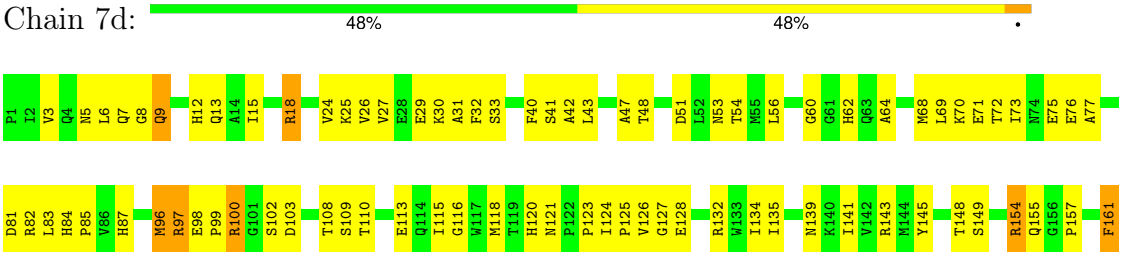
• Molecule 1: capsid protein

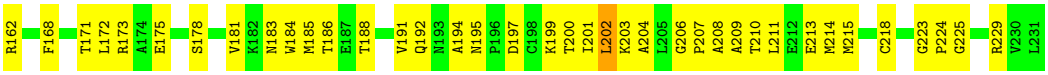
Chain 7c:



• Molecule 1: capsid protein

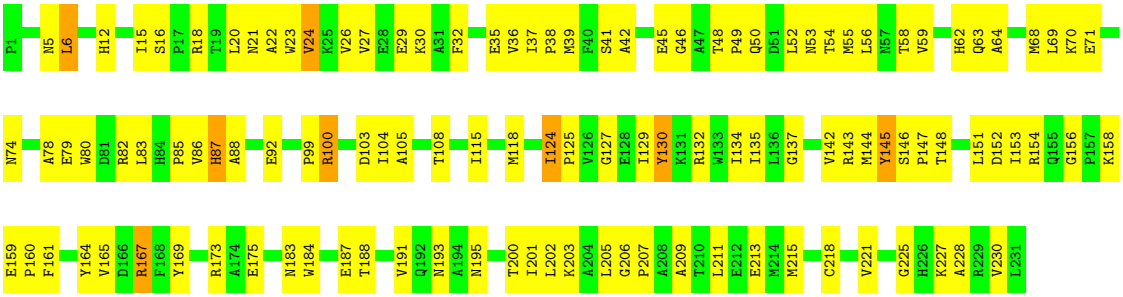
Chain 7d:





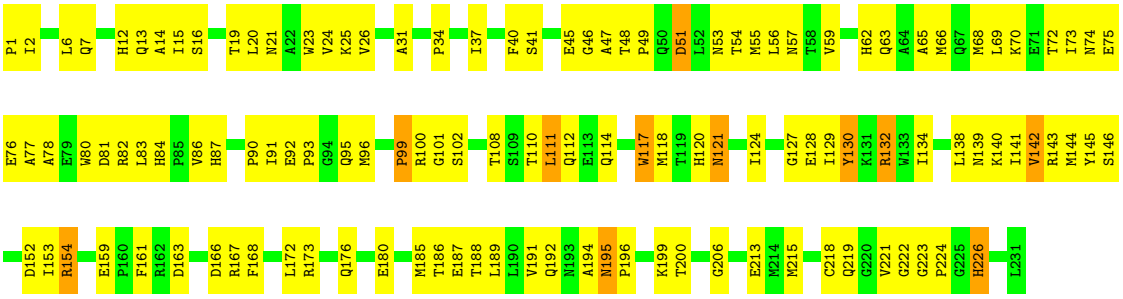
• Molecule 1: capsid protein

Chain 7e:



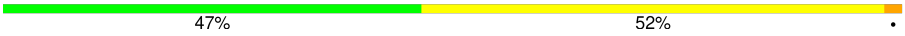
• Molecule 1: capsid protein

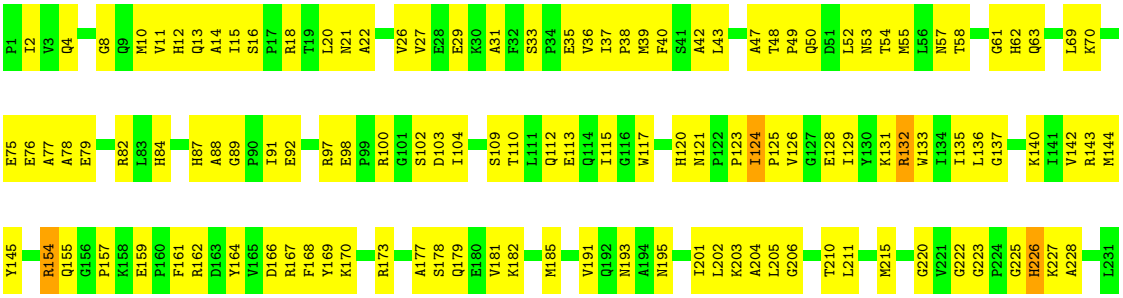
Chain 7f:



• Molecule 1: capsid protein

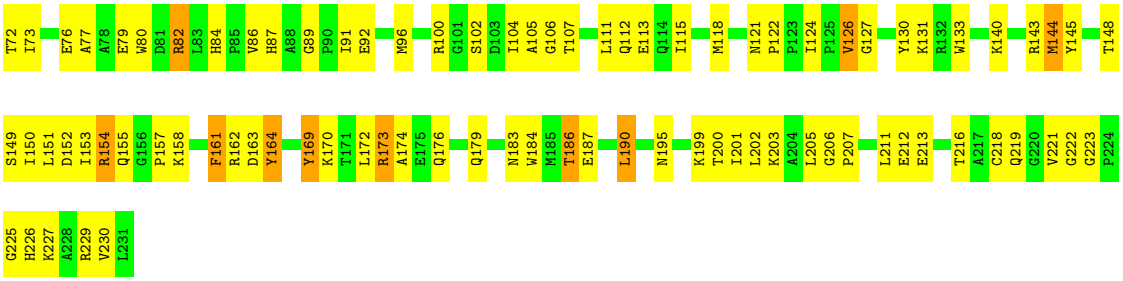
Chain 7g:





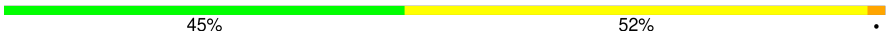
• Molecule 1: capsid protein

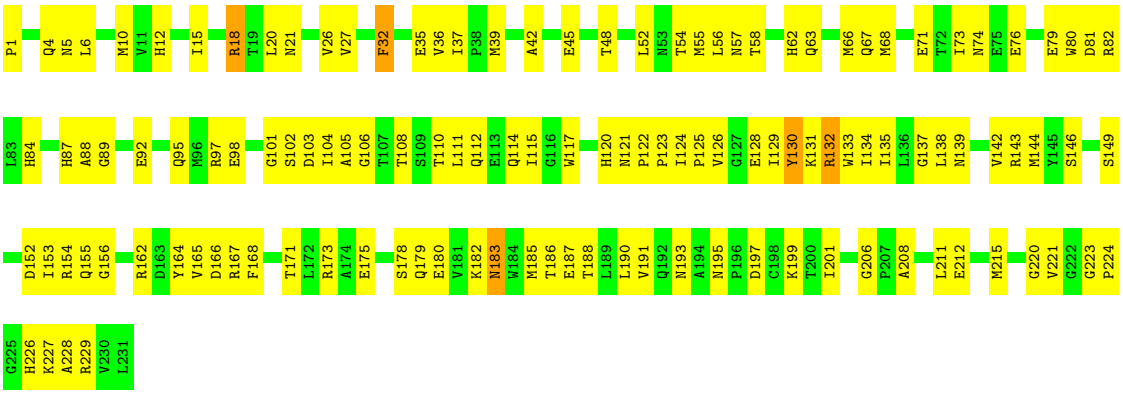
Chain 7h:



• Molecule 1: capsid protein

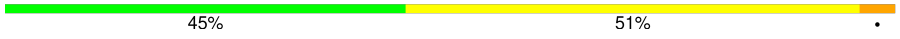
Chain 7i:





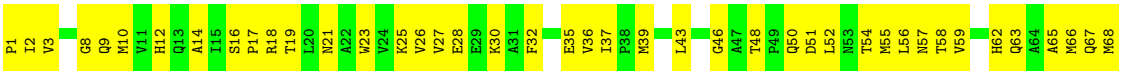
• Molecule 1: capsid protein

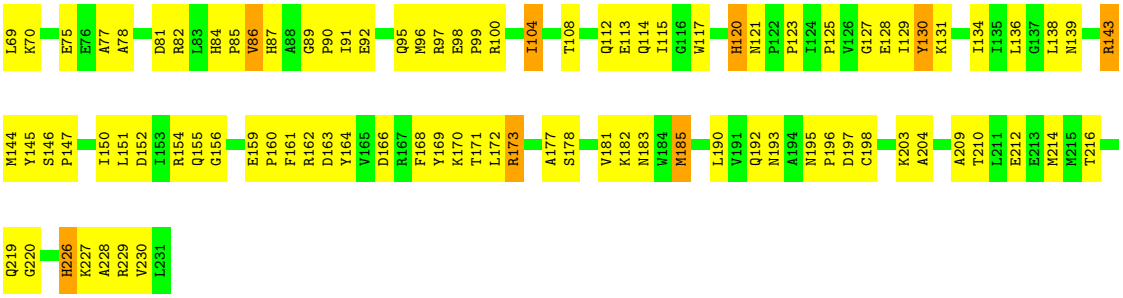
Chain 7j:



• Molecule 1: capsid protein

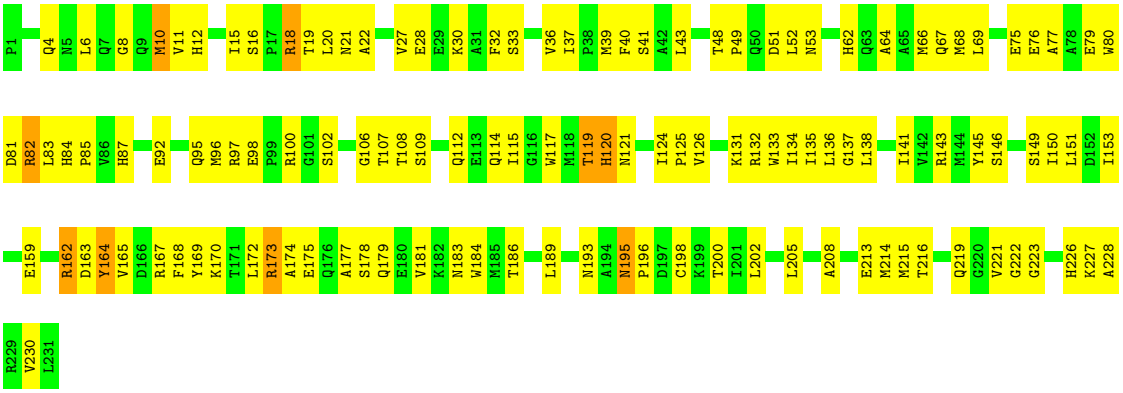
Chain 7k:





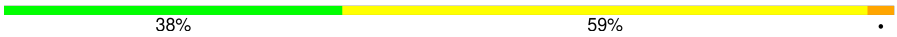
• Molecule 1: capsid protein

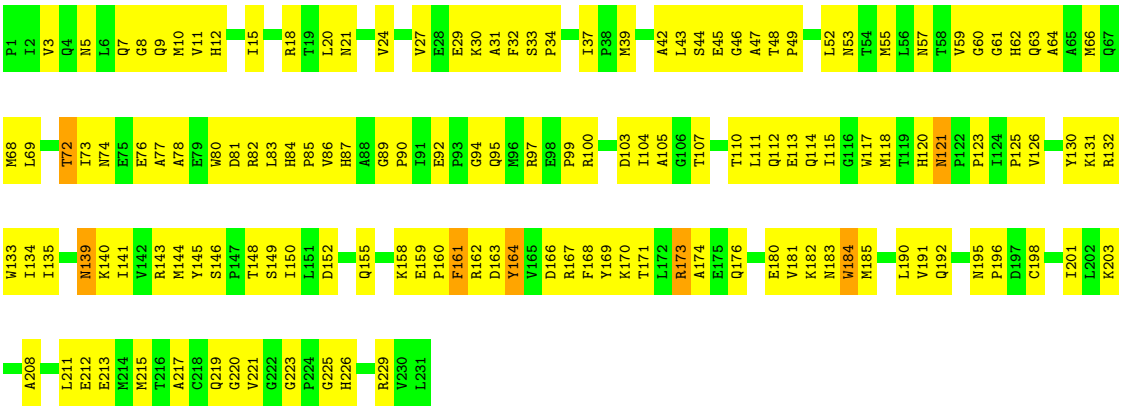
Chain 7l:



• Molecule 1: capsid protein

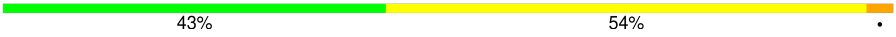
Chain 7m:

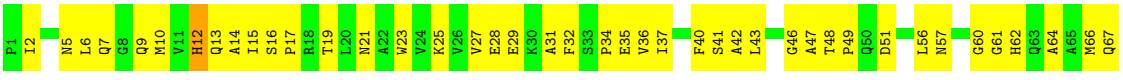


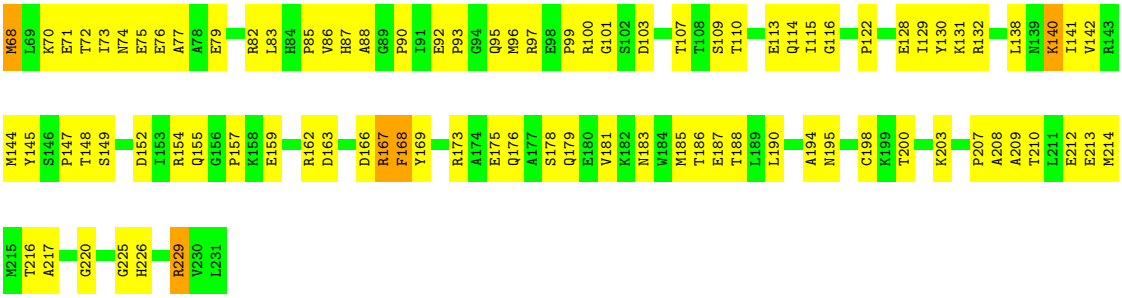


• Molecule 1: capsid protein

Chain 7n:





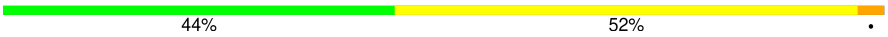


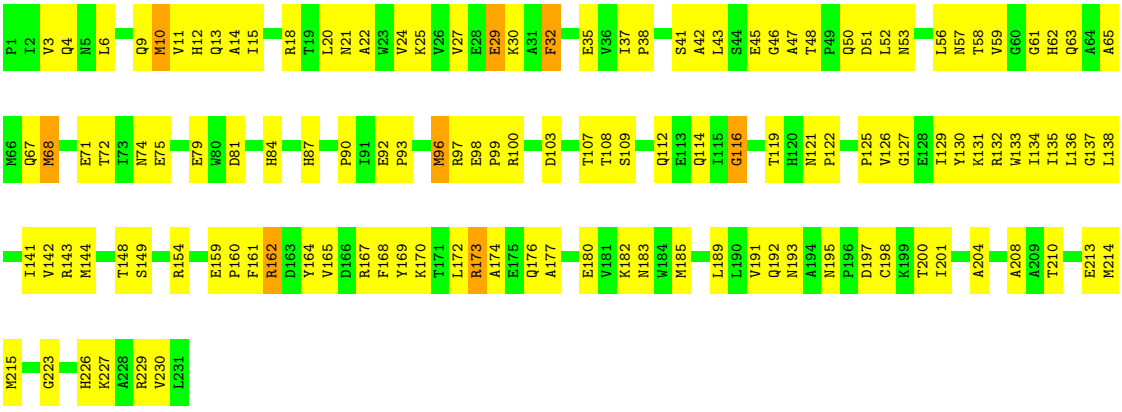
• Molecule 1: capsid protein

Chain 7o:

• Molecule 1: capsid protein

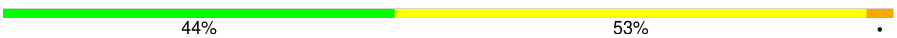
Chain 7p:

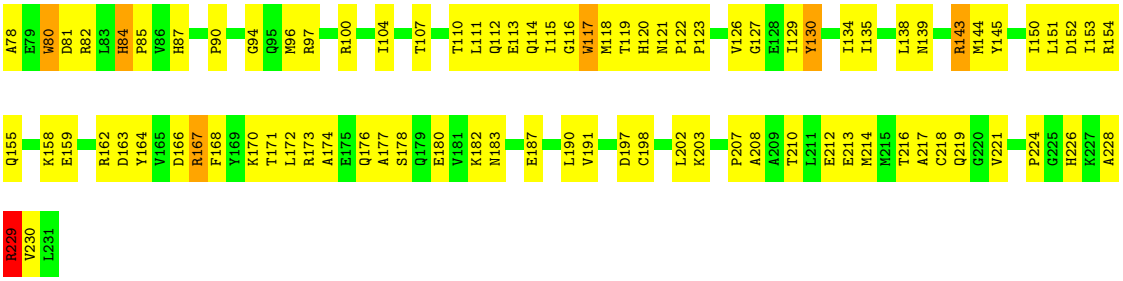




• Molecule 1: capsid protein

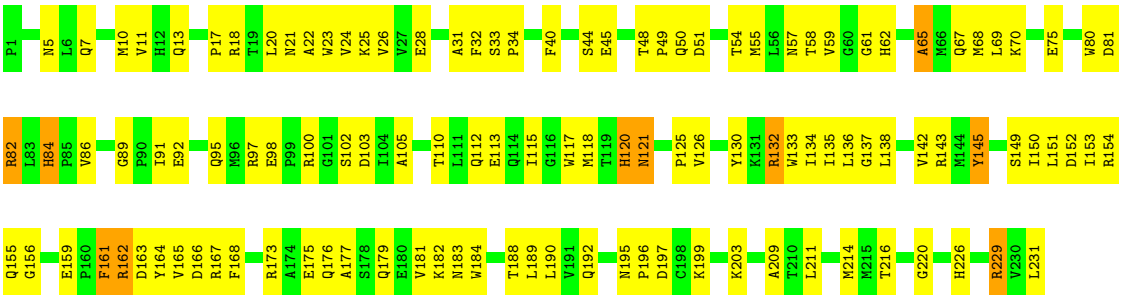
Chain 7q:





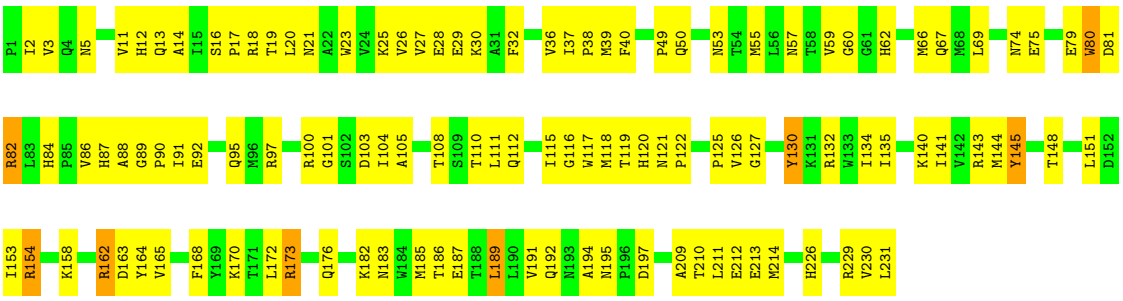
• Molecule 1: capsid protein

Chain 7r:



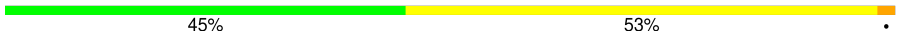
• Molecule 1: capsid protein

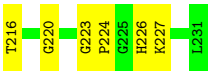
Chain 7s:



• Molecule 1: capsid protein

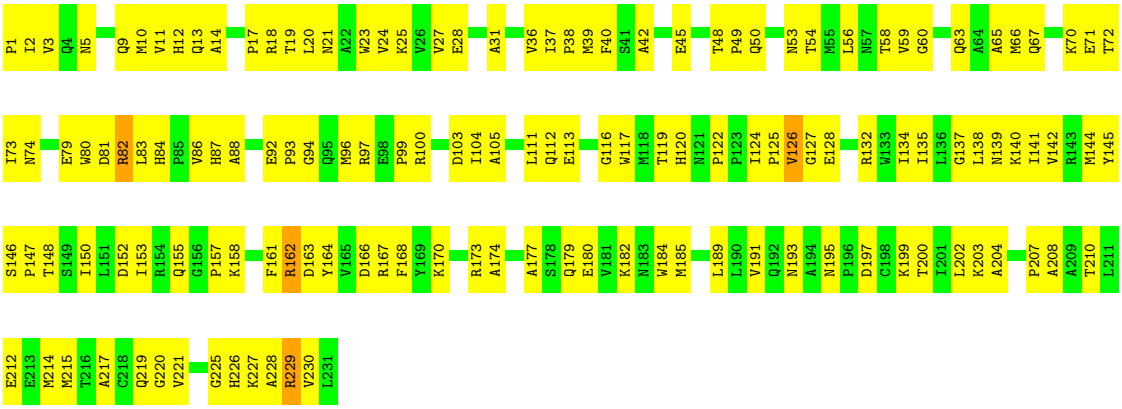
Chain 7t:





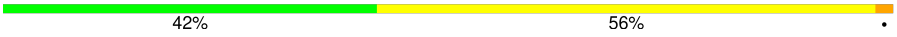
• Molecule 1: capsid protein

Chain 7u:



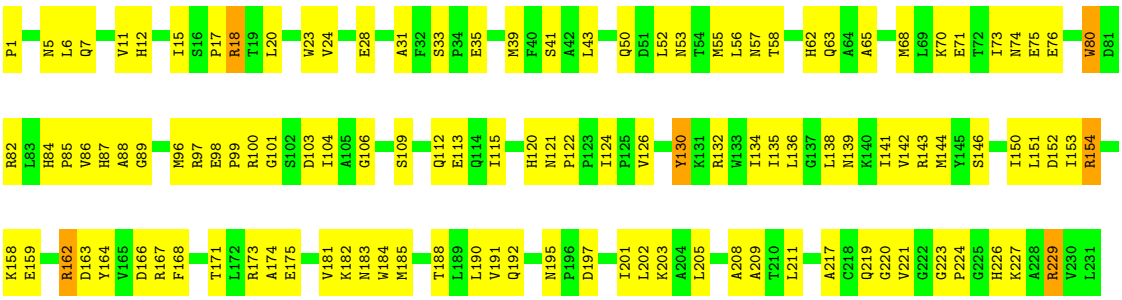
• Molecule 1: capsid protein

Chain 7v:



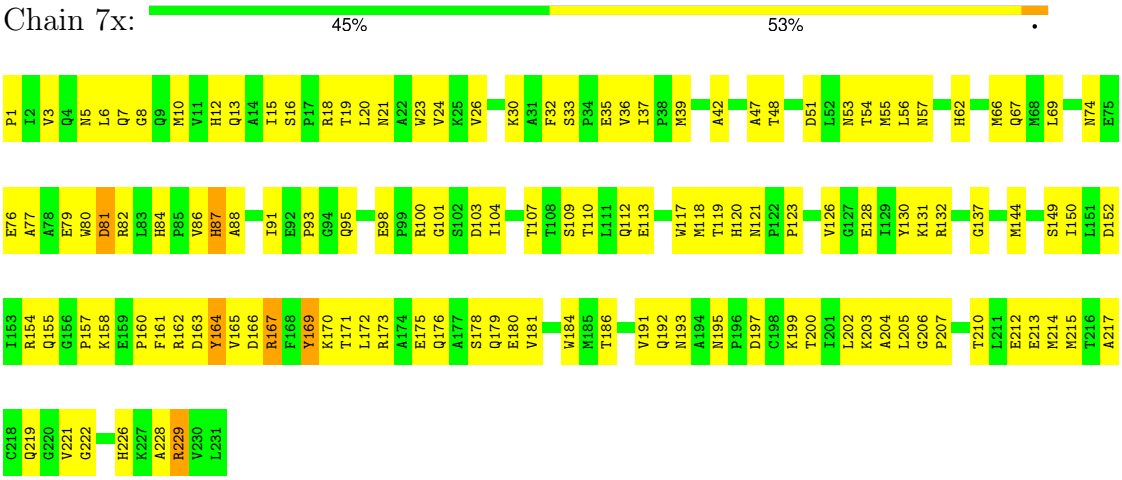
• Molecule 1: capsid protein

Chain 7w:



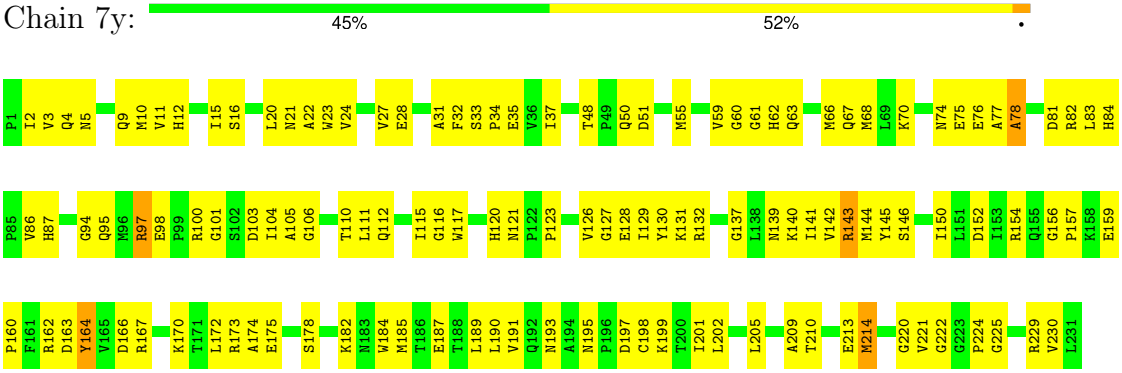
• Molecule 1: capsid protein

Chain 7x:



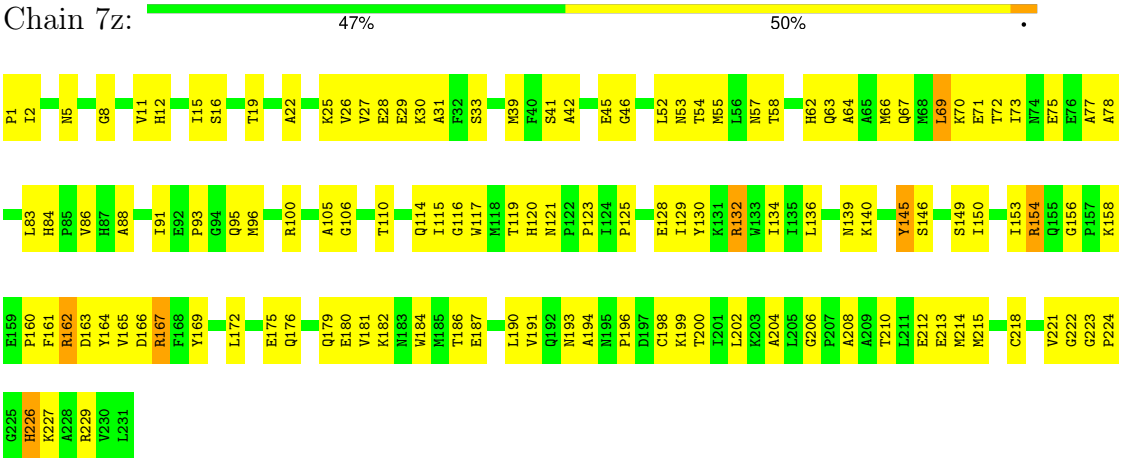
• Molecule 1: capsid protein

Chain 7y:



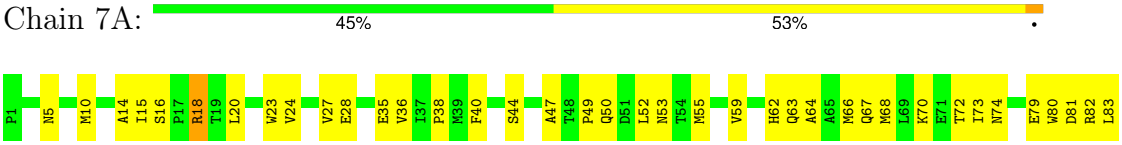
• Molecule 1: capsid protein

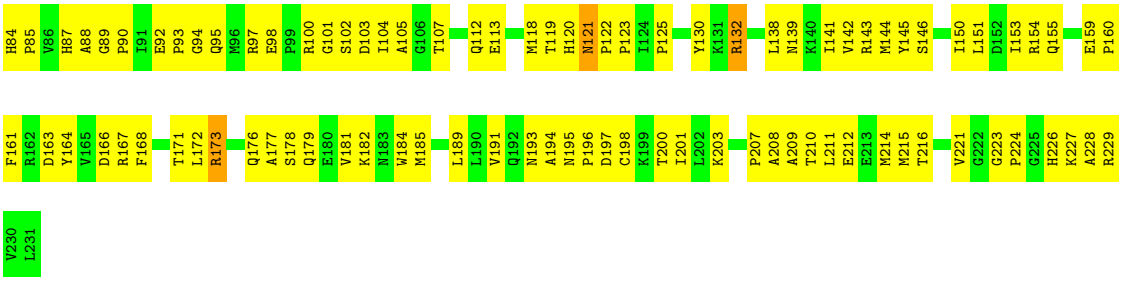
Chain 7z:



• Molecule 1: capsid protein

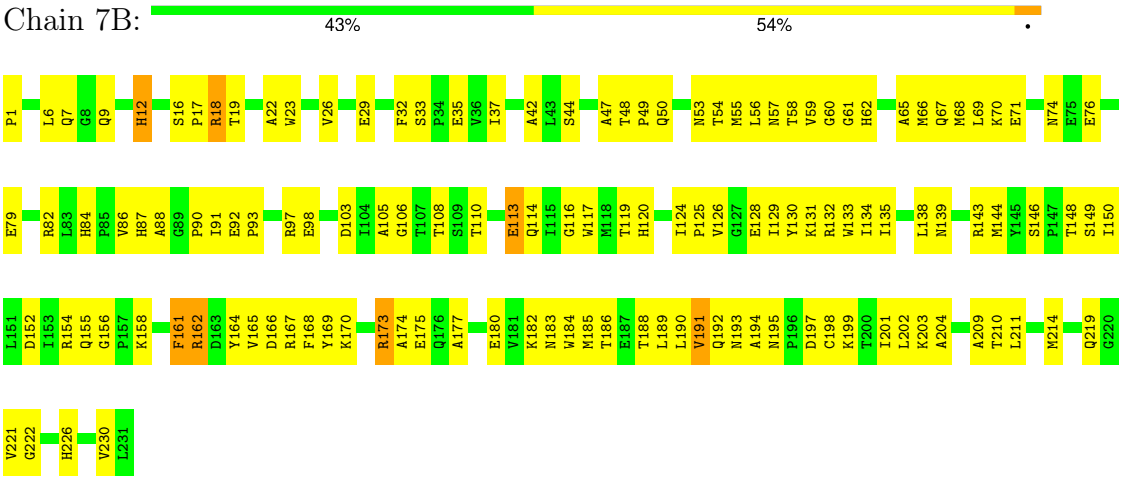
Chain 7A:





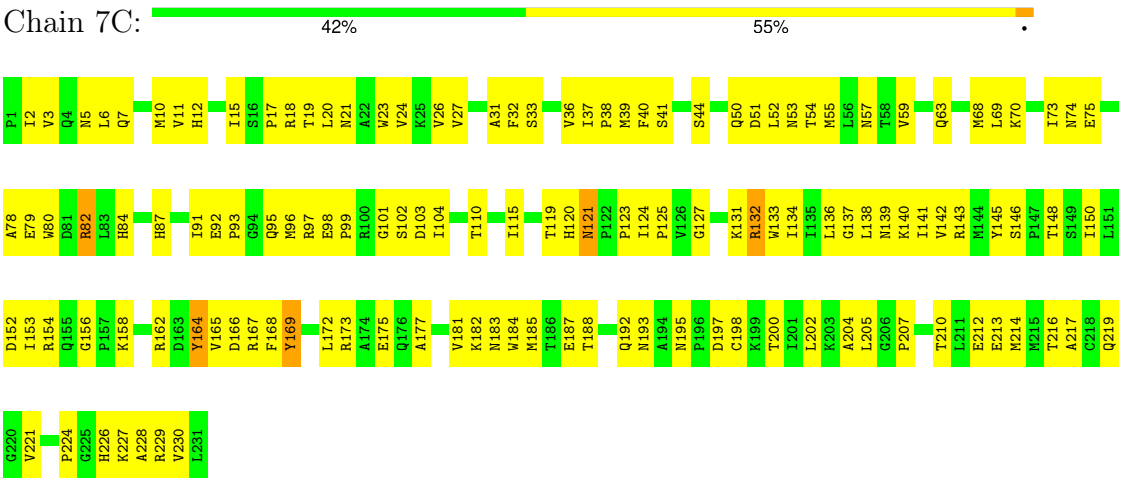
• Molecule 1: capsid protein

Chain 7B:



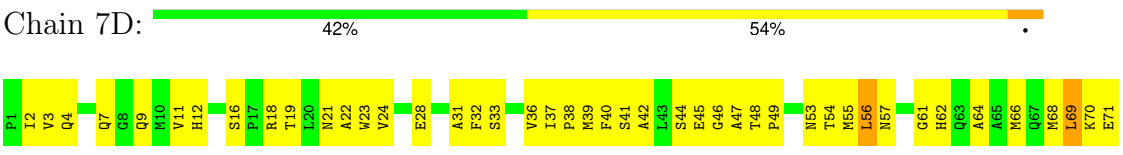
• Molecule 1: capsid protein

Chain 7C:



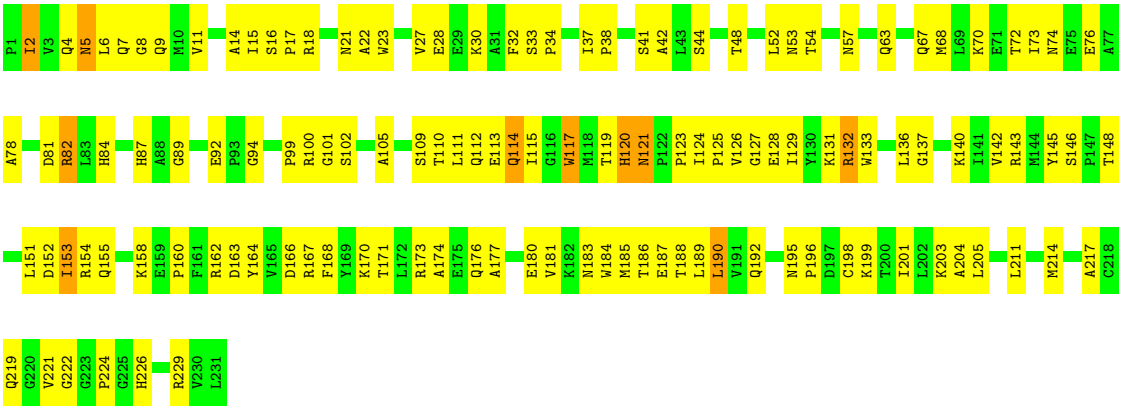
• Molecule 1: capsid protein

Chain 7D:



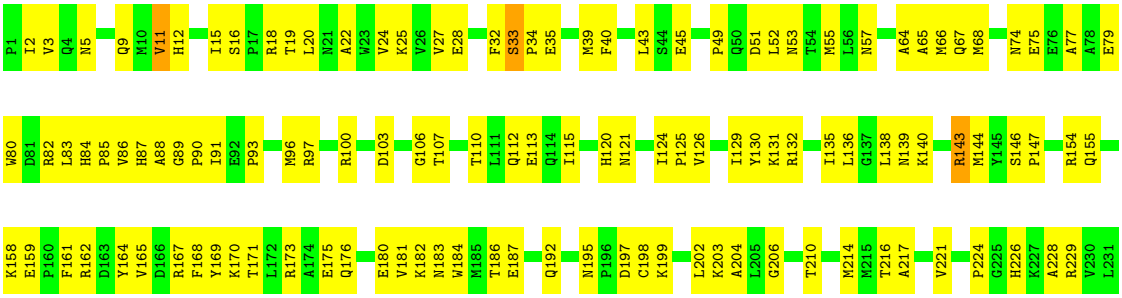
• Molecule 1: capsid protein

Chain 7E:



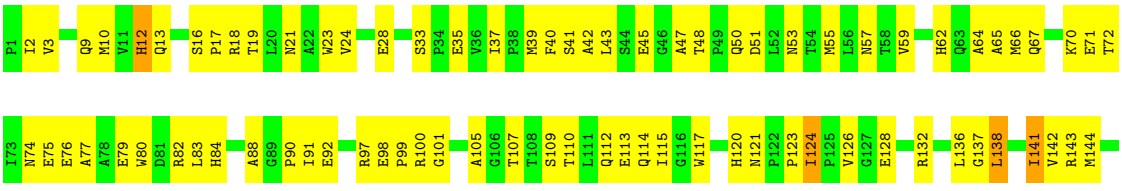
• Molecule 1: capsid protein

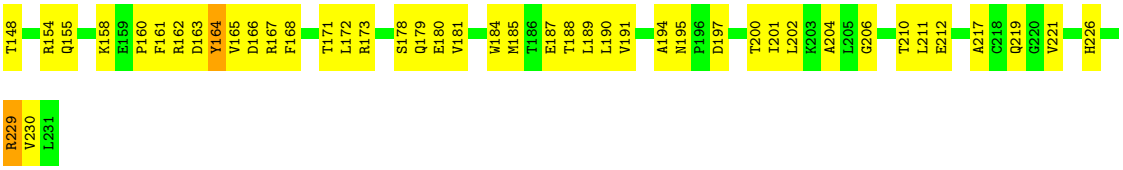
Chain 7F:



• Molecule 1: capsid protein

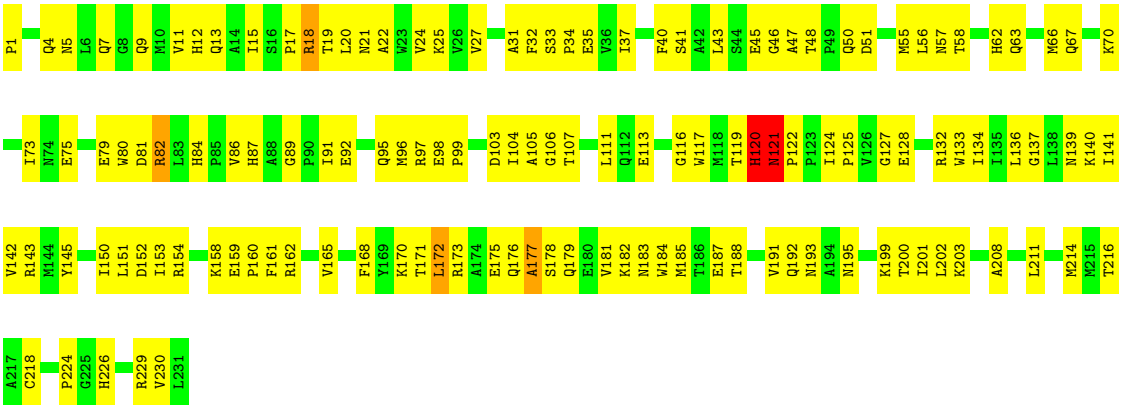
Chain 7G:





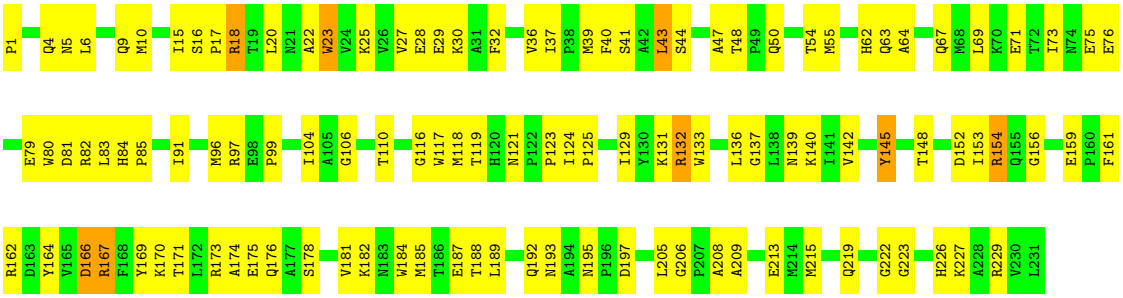
• Molecule 1: capsid protein

Chain 7H:



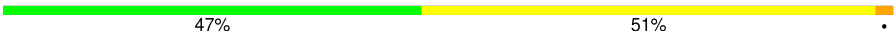
• Molecule 1: capsid protein

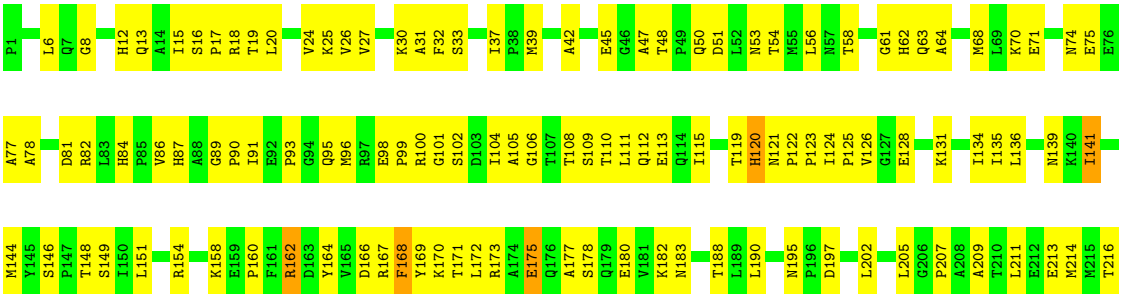
Chain 7I:

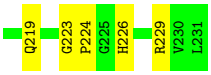


• Molecule 1: capsid protein

Chain 7J:

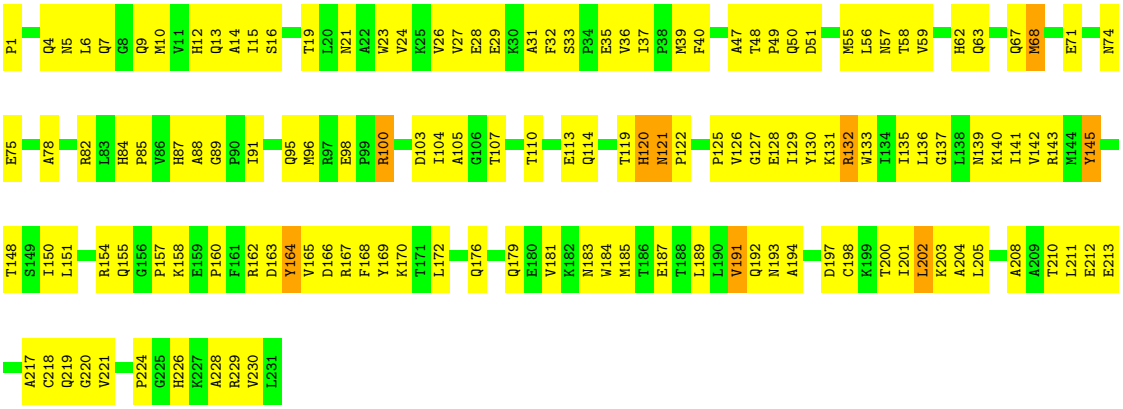






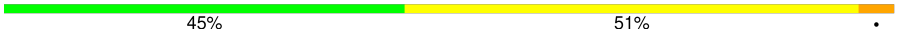
• Molecule 1: capsid protein

Chain 7K:



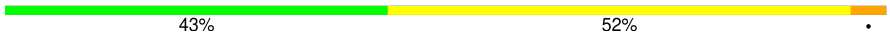
• Molecule 1: capsid protein

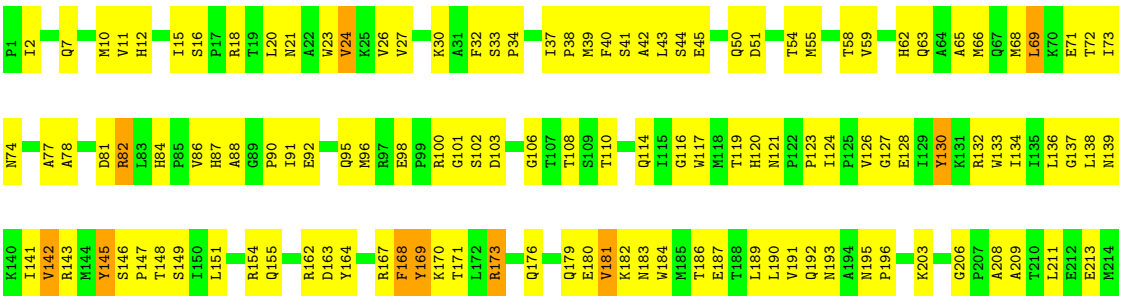
Chain 7L:

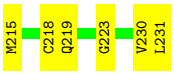


• Molecule 1: capsid protein

Chain 7M:

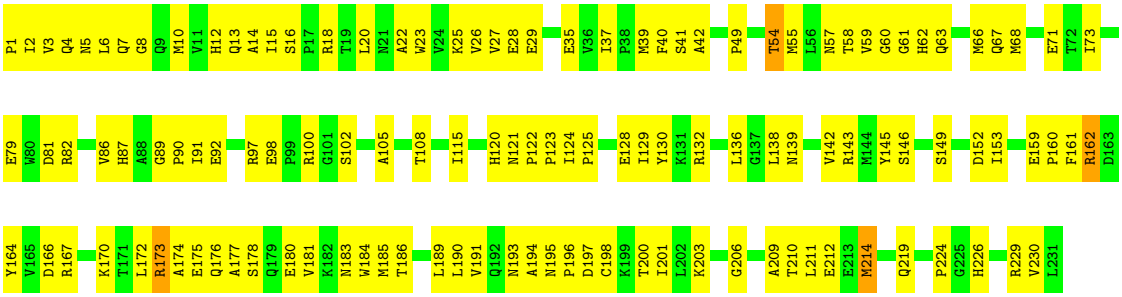






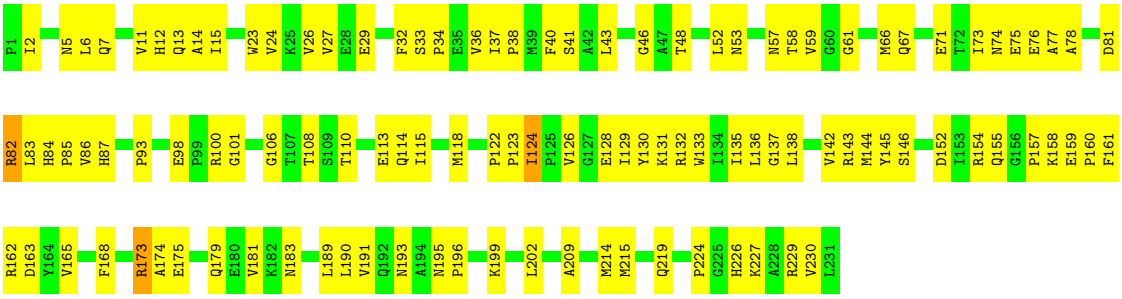
• Molecule 1: capsid protein

Chain 7N:



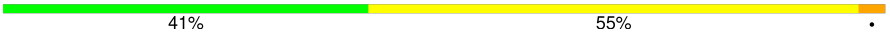
• Molecule 1: capsid protein

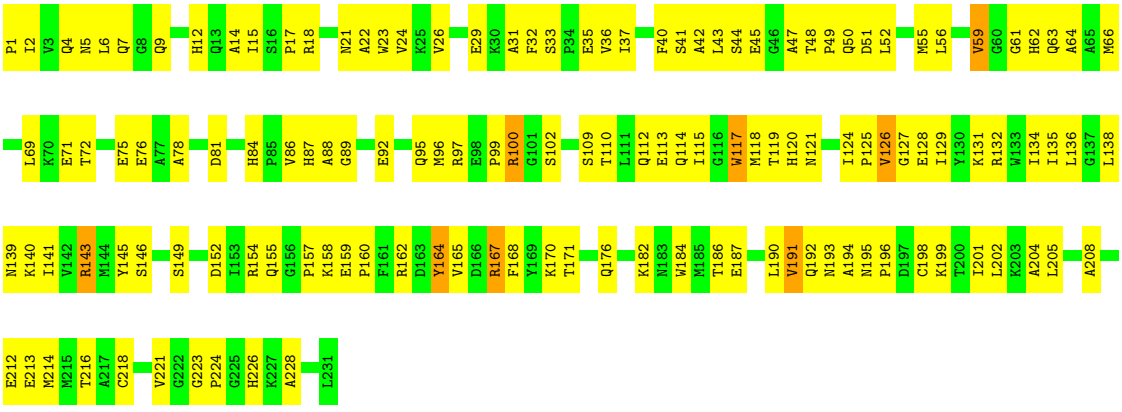
Chain 7O:



• Molecule 1: capsid protein

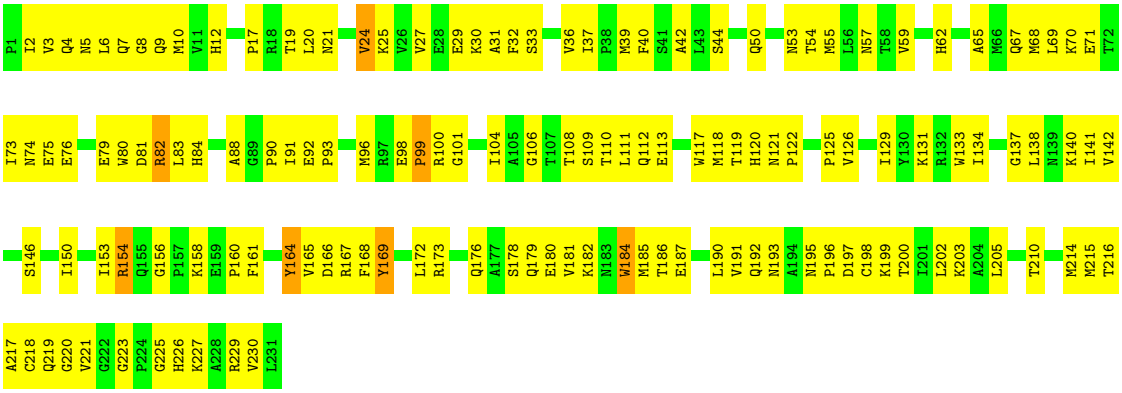
Chain 7P:





• Molecule 1: capsid protein

Chain 7Q:

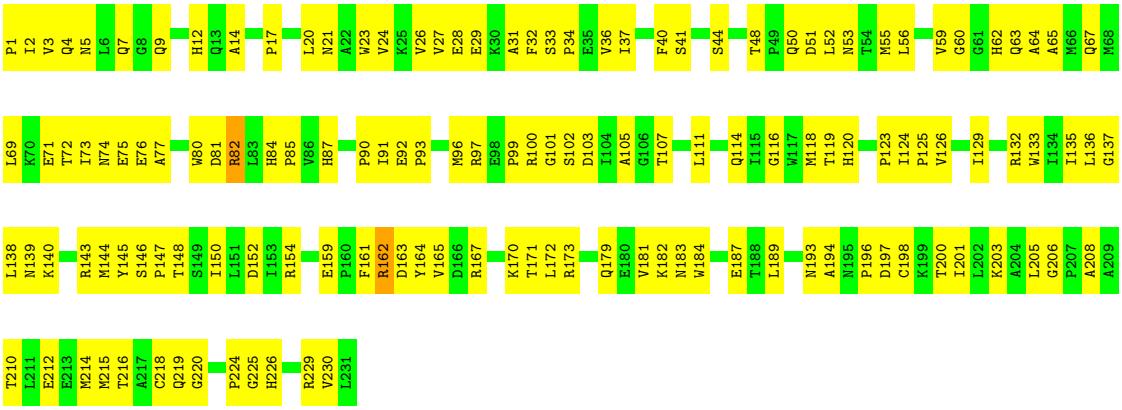


• Molecule 1: capsid protein

Chain 7R:

• Molecule 1: capsid protein

Chain 7S:



• Molecule 1: capsid protein

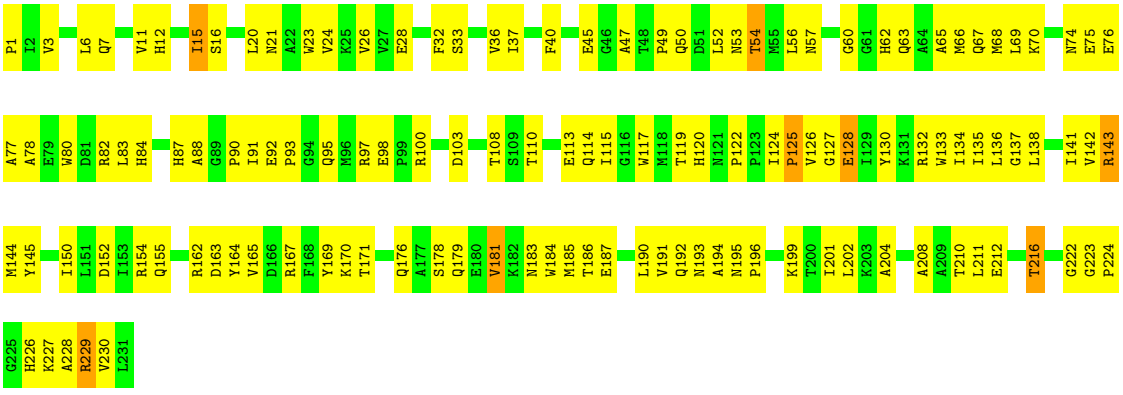
Chain 7T:

• Molecule 1: capsid protein

Chain 7U:

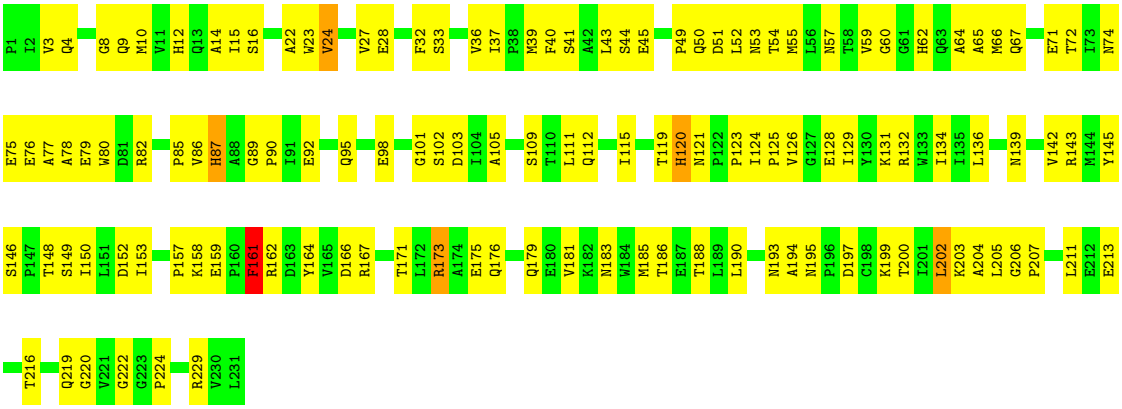
• Molecule 1: capsid protein

Chain 7V:



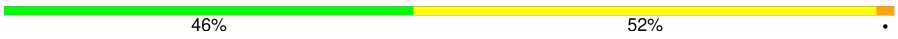
• Molecule 1: capsid protein

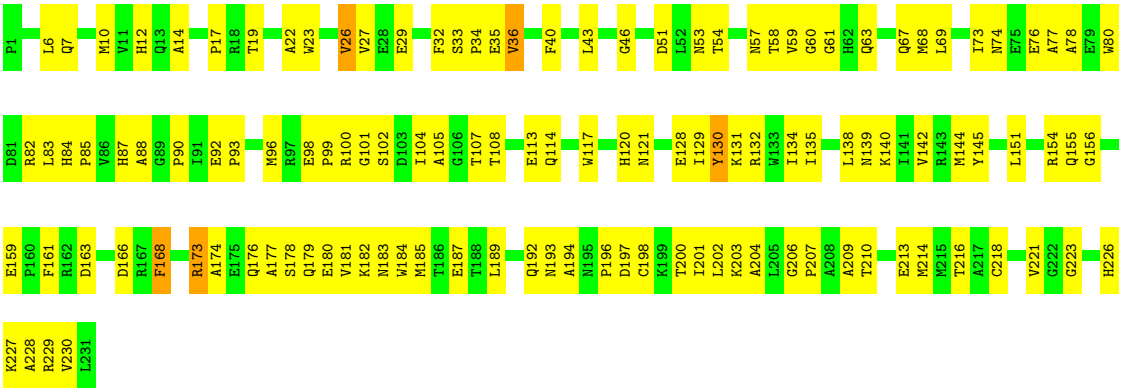
Chain 7W:



• Molecule 1: capsid protein

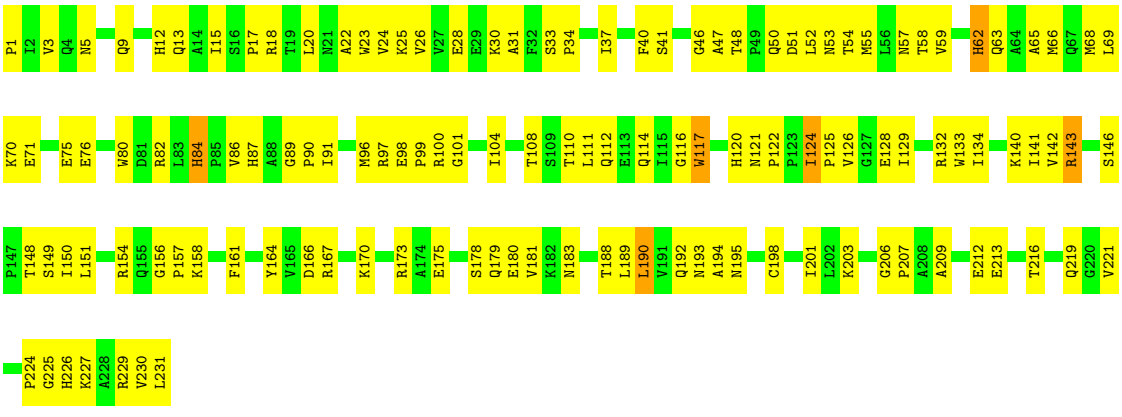
Chain 7X:





• Molecule 1: capsid protein

Chain 7Y:

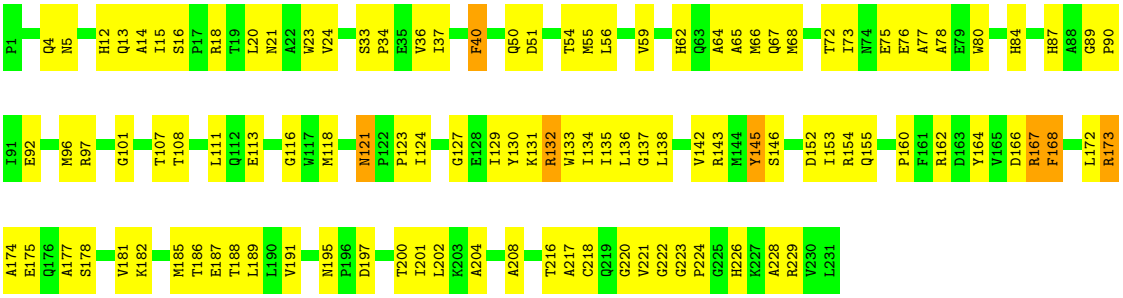


• Molecule 1: capsid protein

Chain 7Z:

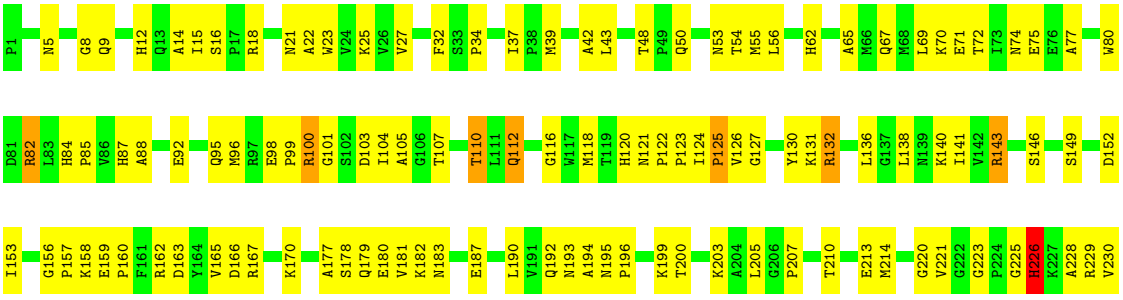
• Molecule 1: capsid protein

Chain 80:



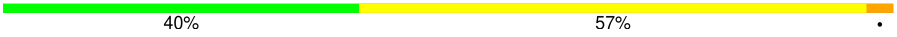
• Molecule 1: capsid protein

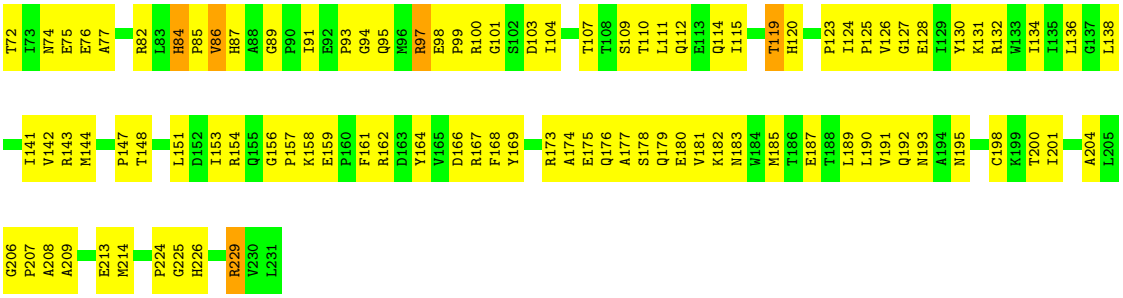
Chain 81:



• Molecule 1: capsid protein

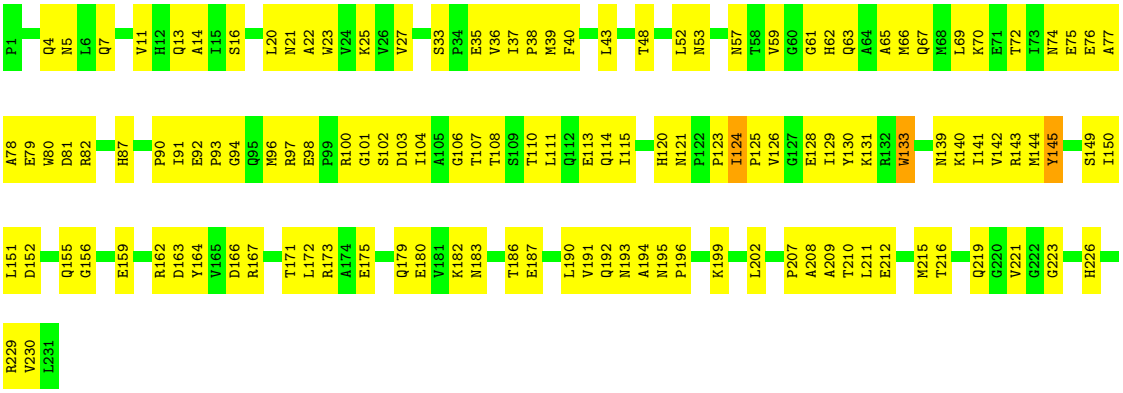
Chain 82:





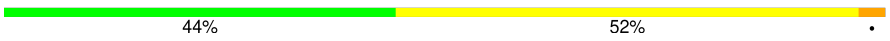
• Molecule 1: capsid protein

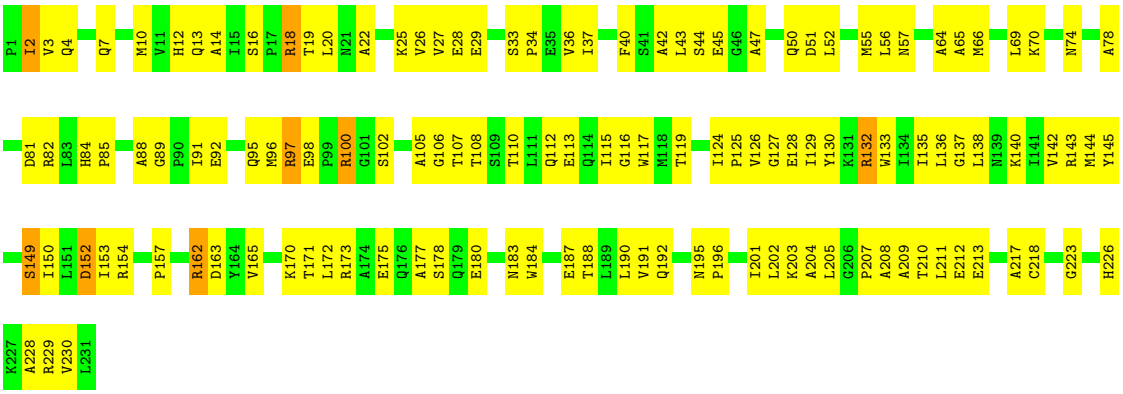
Chain 83:



• Molecule 1: capsid protein

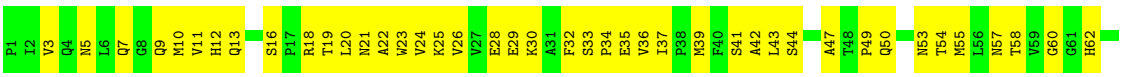
Chain 84:

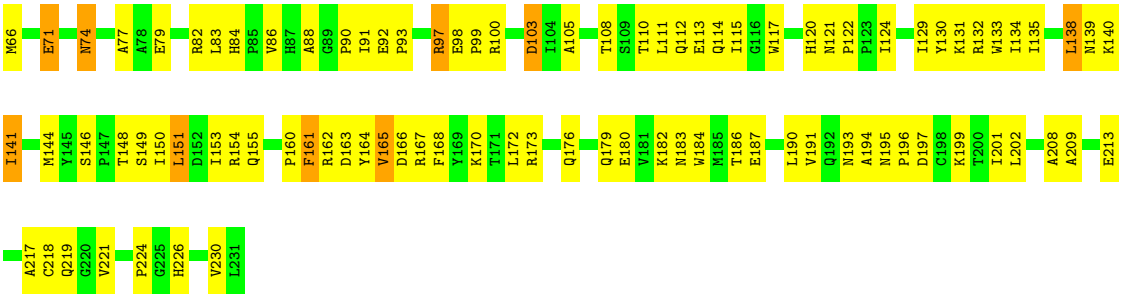




• Molecule 1: capsid protein

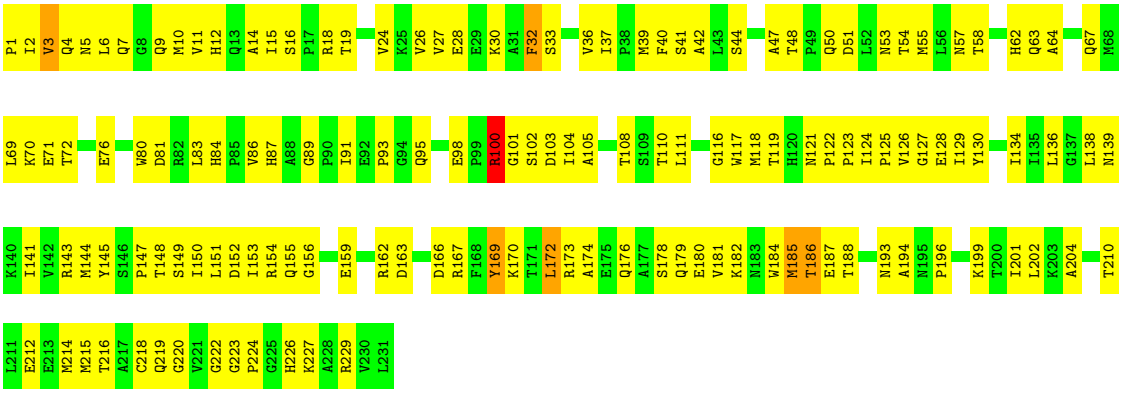
Chain 85:





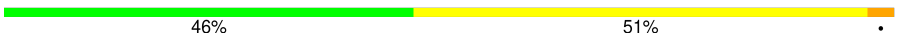
• Molecule 1: capsid protein

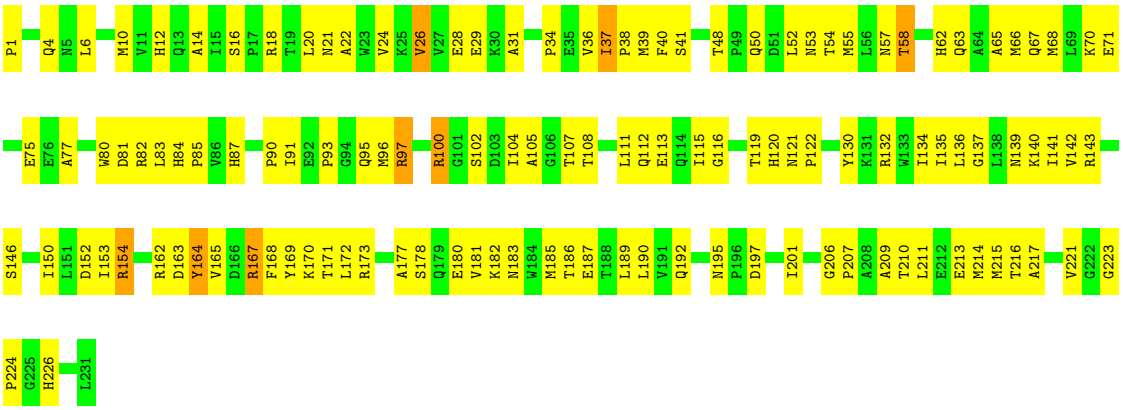
Chain 86:



• Molecule 1: capsid protein

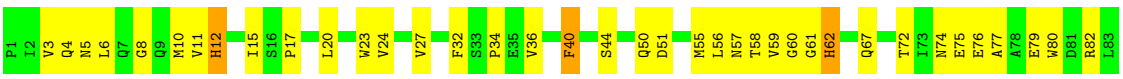
Chain 87:

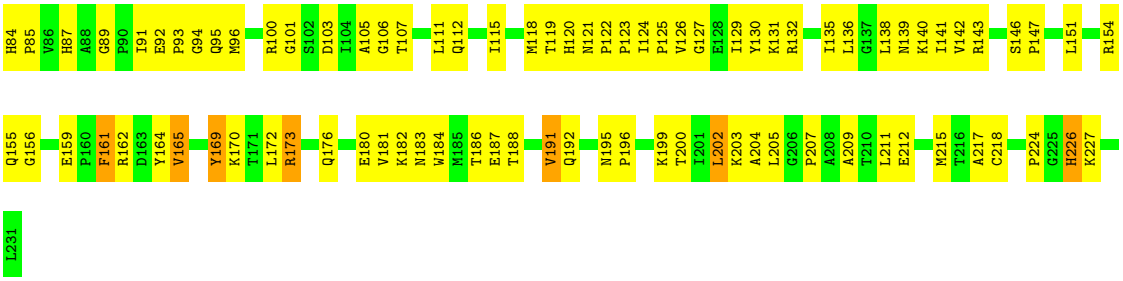




• Molecule 1: capsid protein

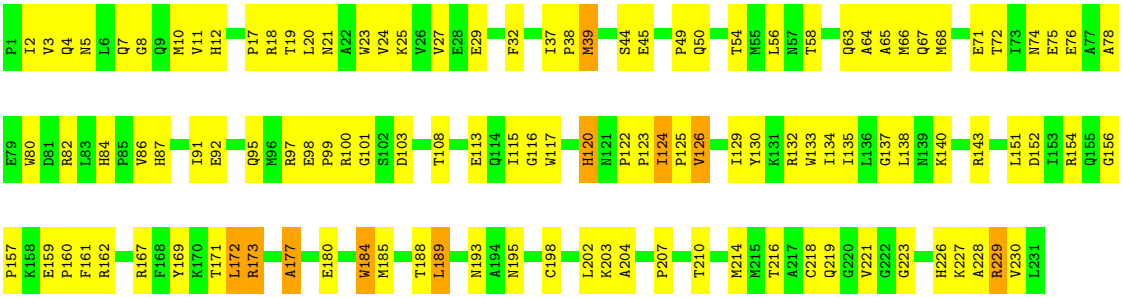
Chain 88:





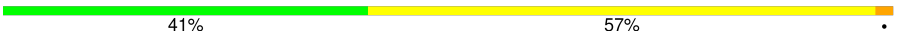
• Molecule 1: capsid protein

Chain 89:



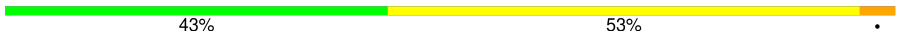
• Molecule 1: capsid protein

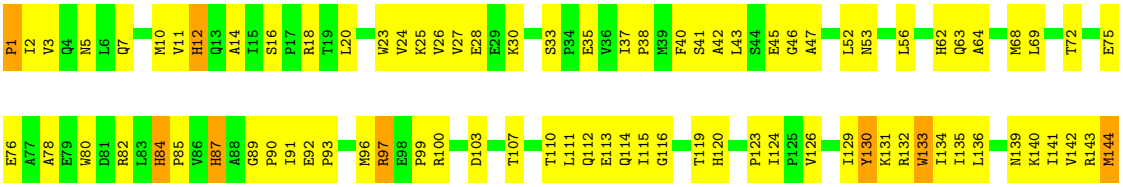
Chain 8a:

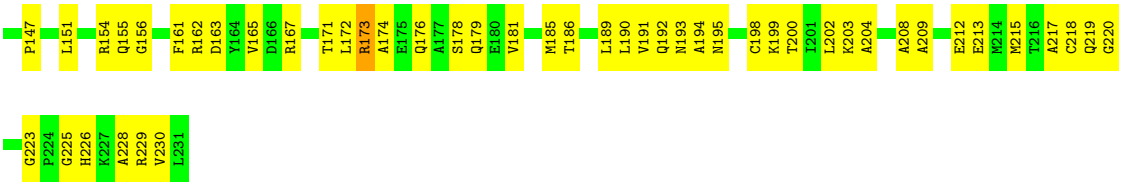


• Molecule 1: capsid protein

Chain 8b:

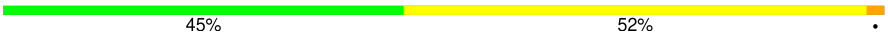


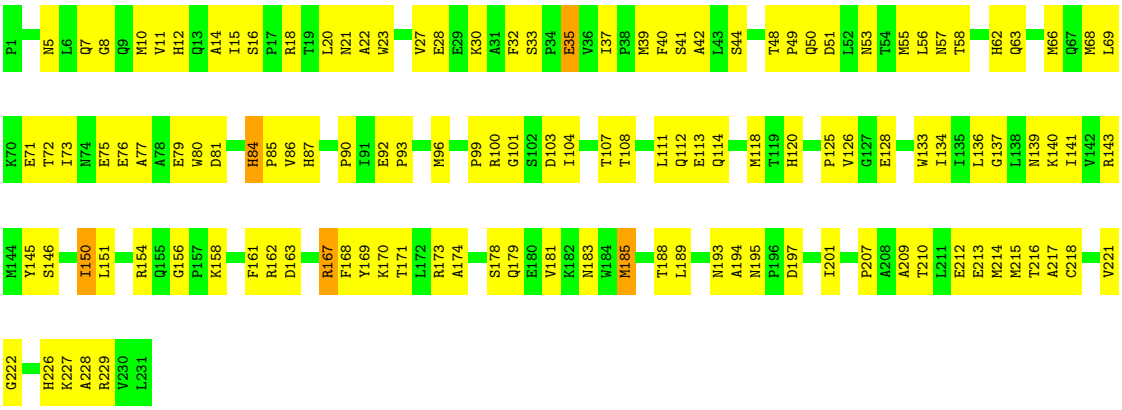




• Molecule 1: capsid protein

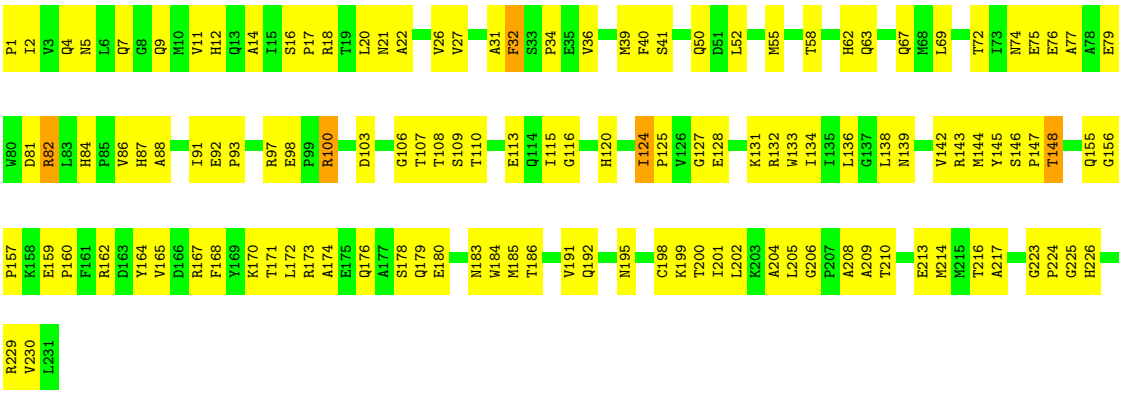
Chain 8c:





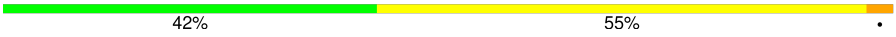
• Molecule 1: capsid protein

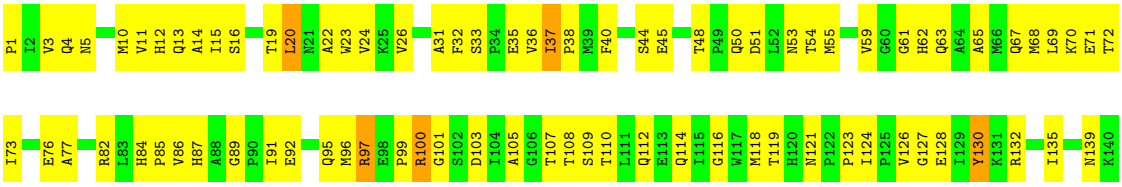
Chain 8d:

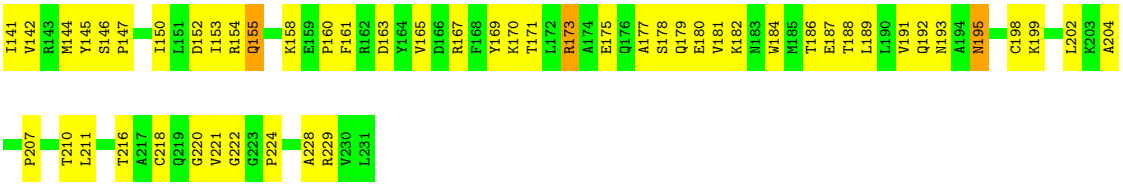


• Molecule 1: capsid protein

Chain 8e:

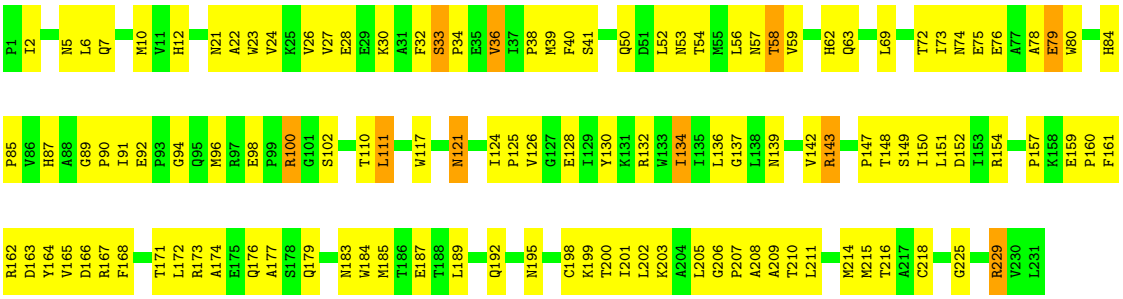






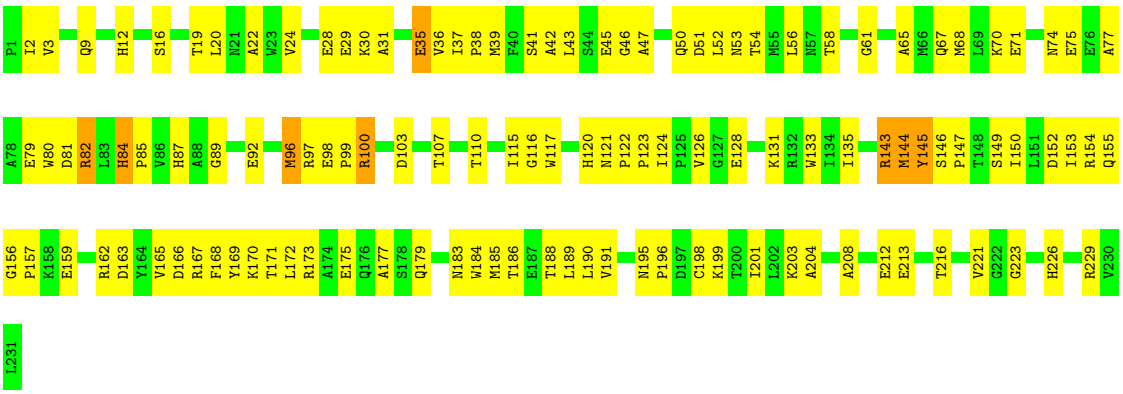
• Molecule 1: capsid protein

Chain 8f:



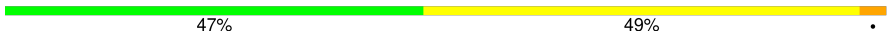
• Molecule 1: capsid protein

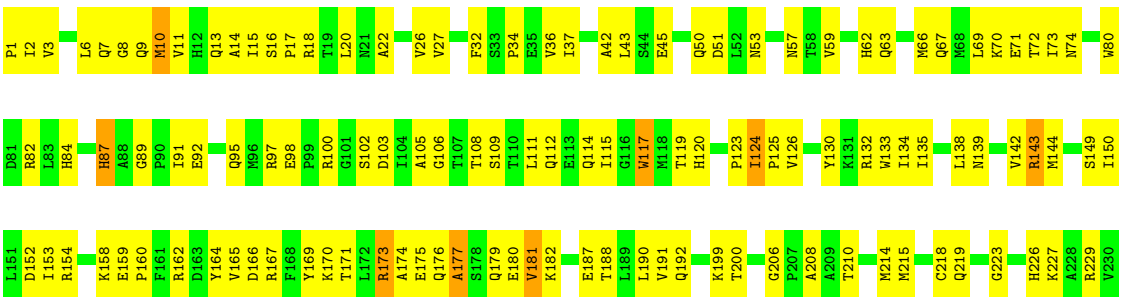
Chain 8g:



• Molecule 1: capsid protein

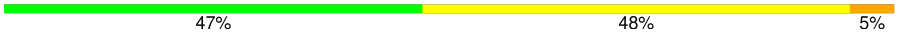
Chain 8h:

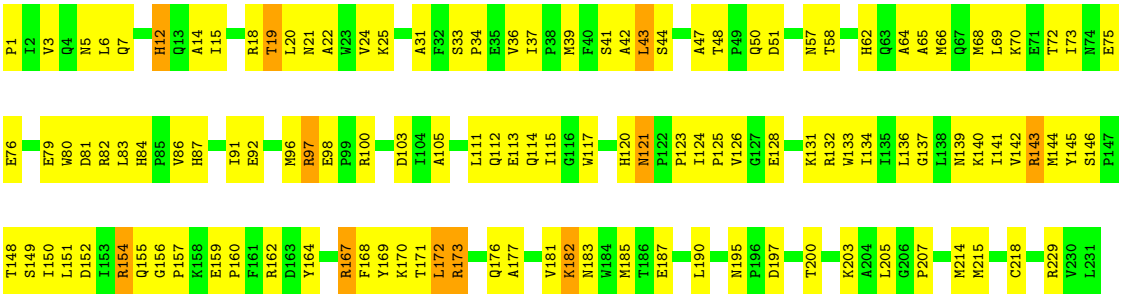




• Molecule 1: capsid protein

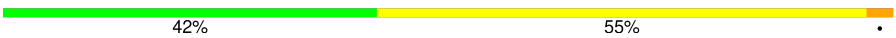
Chain 8i:

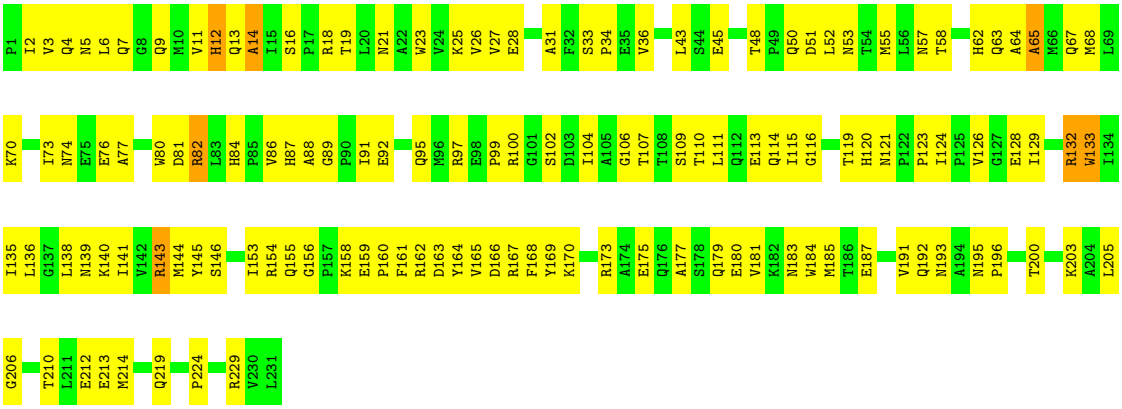




• Molecule 1: capsid protein

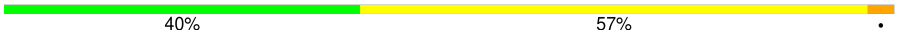
Chain 8j:





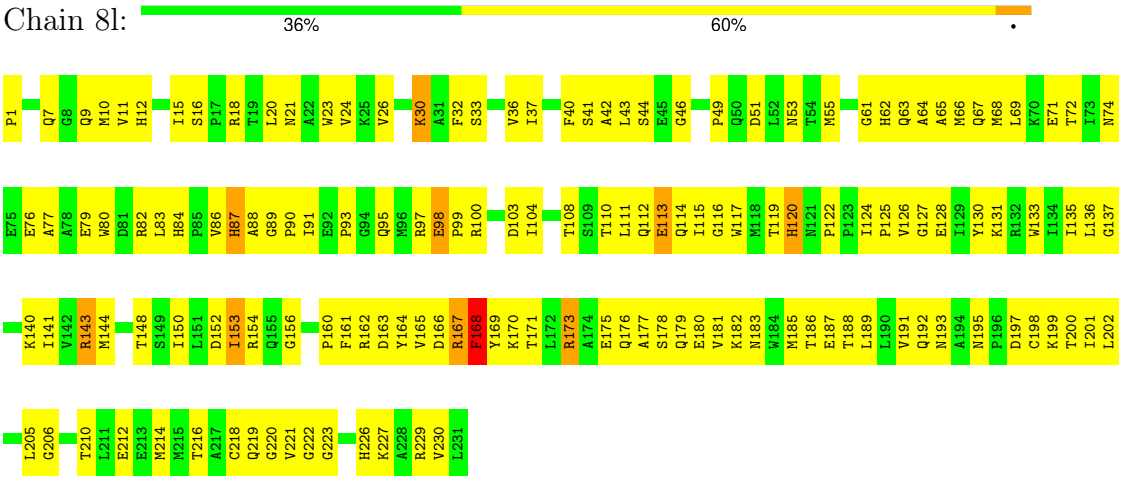
• Molecule 1: capsid protein

Chain 8k:



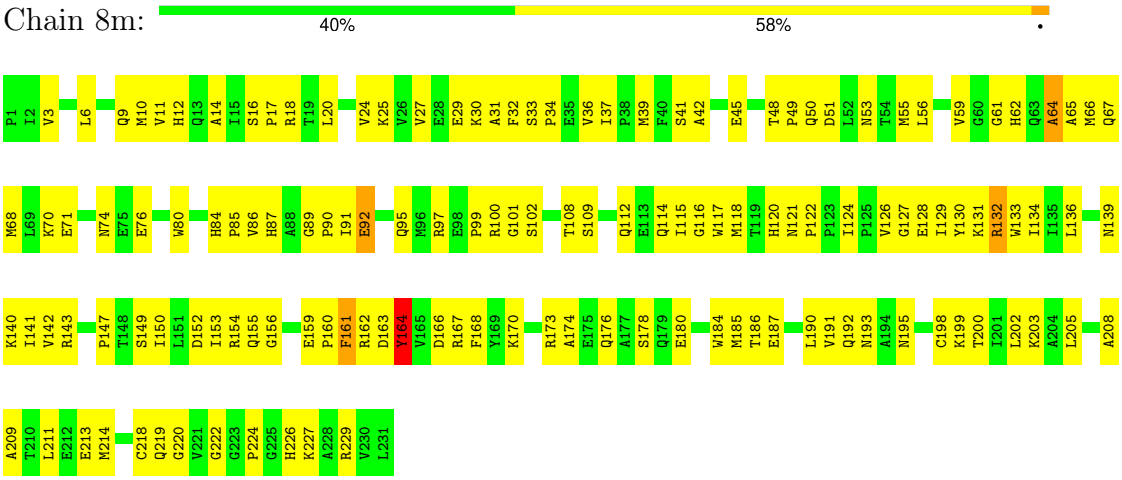
• Molecule 1: capsid protein

Chain 8l:



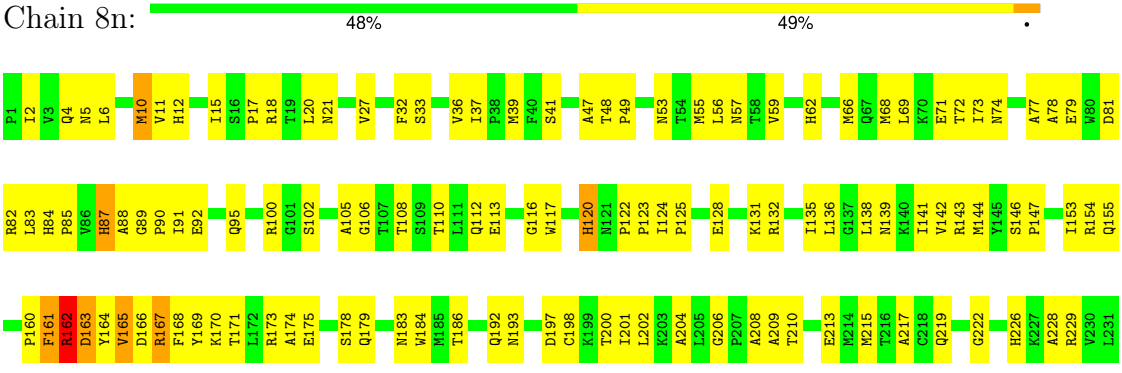
• Molecule 1: capsid protein

Chain 8m:



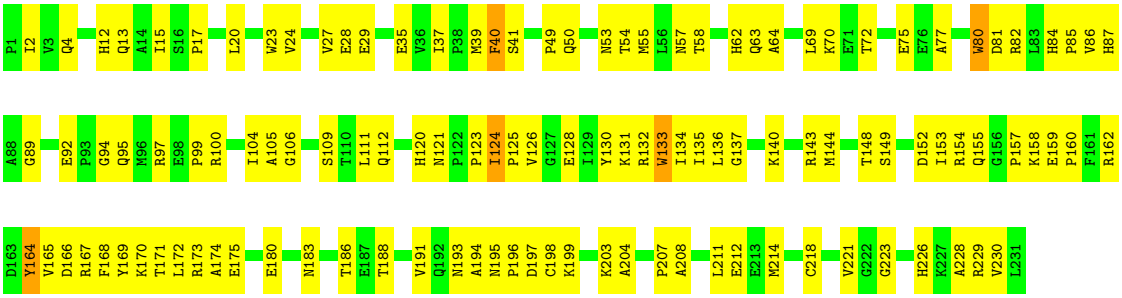
• Molecule 1: capsid protein

Chain 8n:



• Molecule 1: capsid protein

Chain 8o:

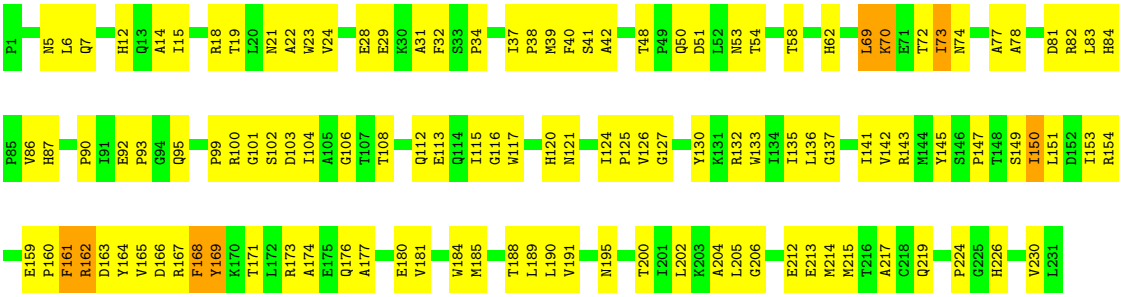


• Molecule 1: capsid protein

Chain 8p:

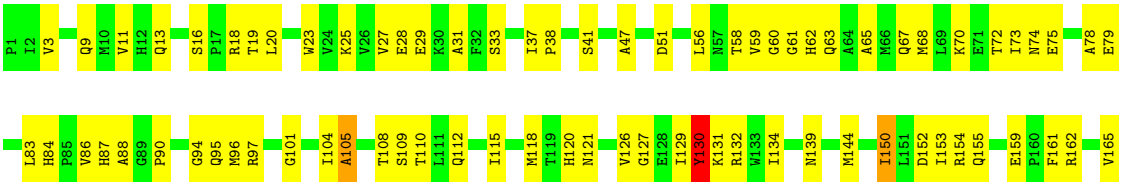
• Molecule 1: capsid protein

Chain 8q:



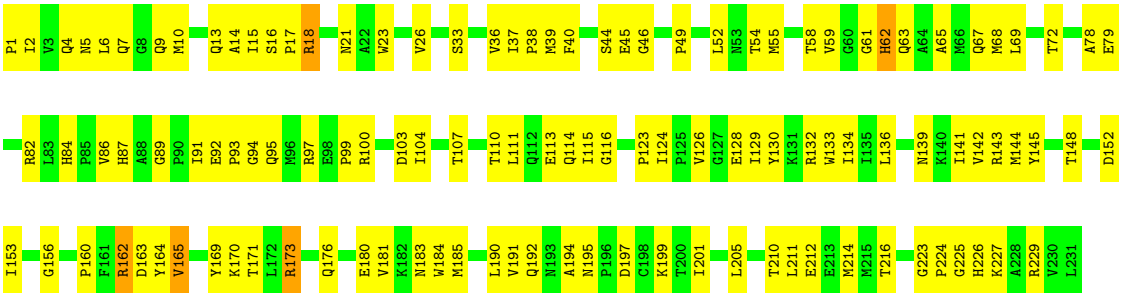
• Molecule 1: capsid protein

Chain 8r:



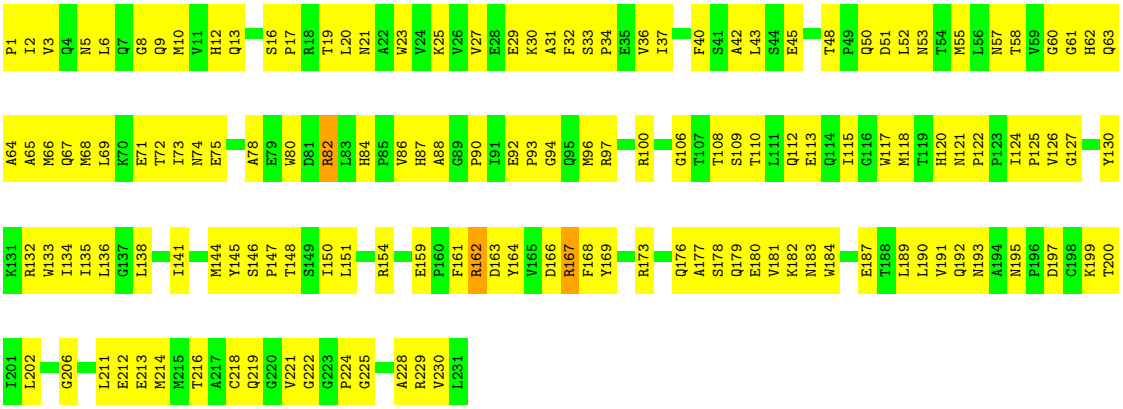
• Molecule 1: capsid protein

Chain 8s:



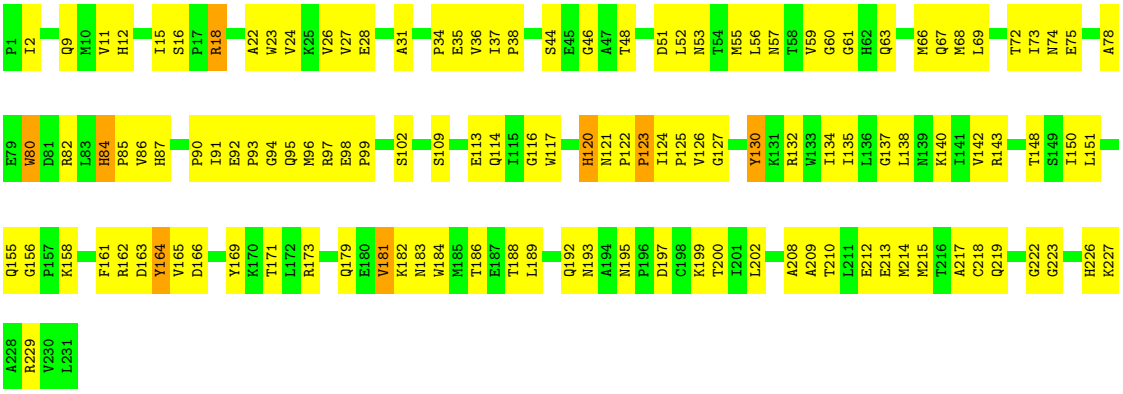
• Molecule 1: capsid protein

Chain 8t:



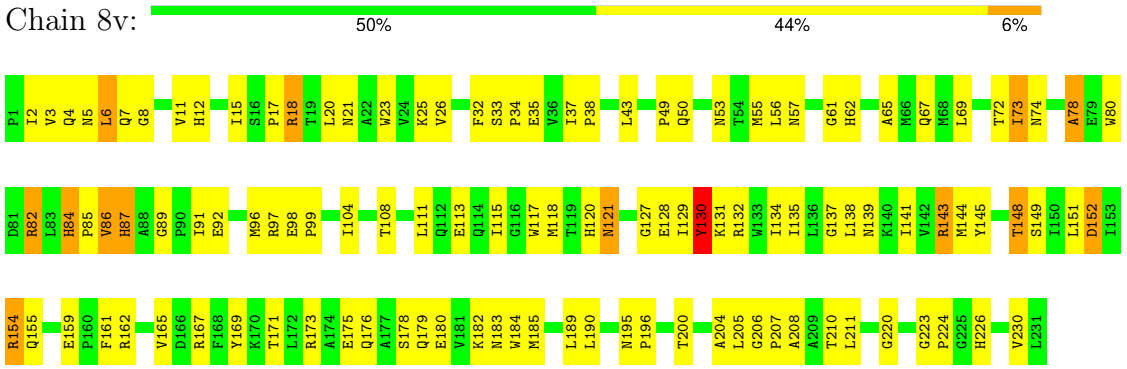
• Molecule 1: capsid protein

Chain 8u:



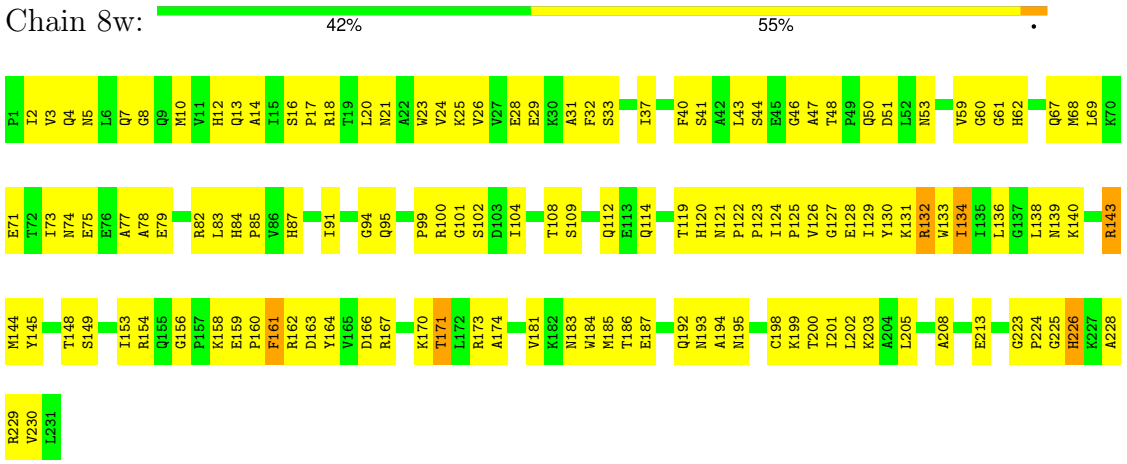
• Molecule 1: capsid protein

Chain 8v:



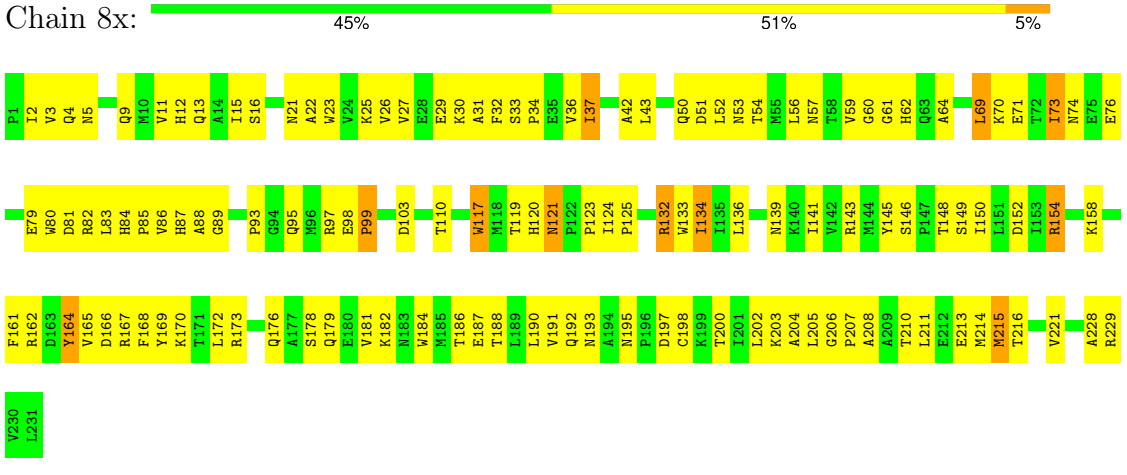
• Molecule 1: capsid protein

Chain 8w:



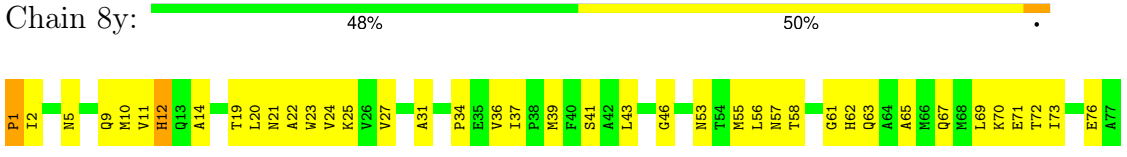
• Molecule 1: capsid protein

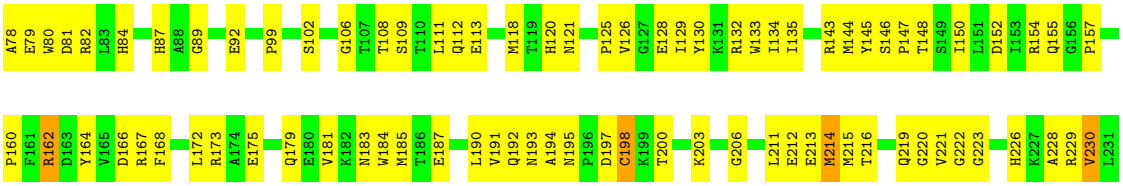
Chain 8x:



• Molecule 1: capsid protein

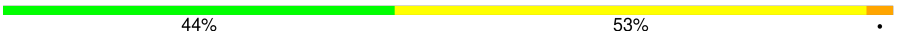
Chain 8y:

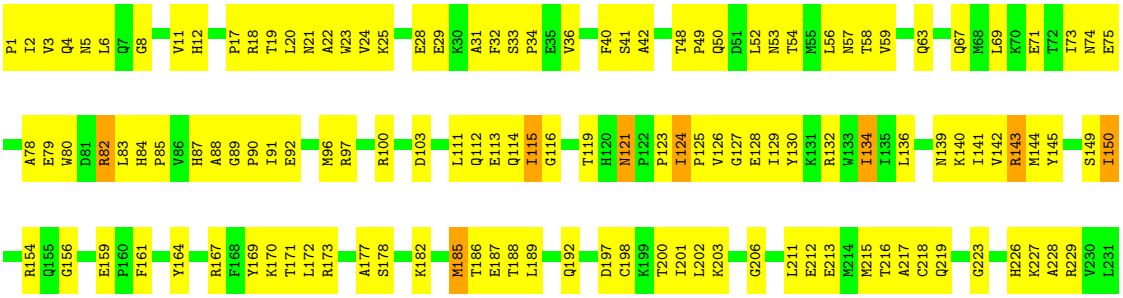




• Molecule 1: capsid protein

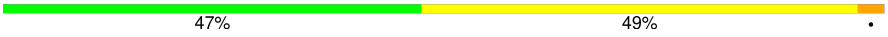
Chain 8z:

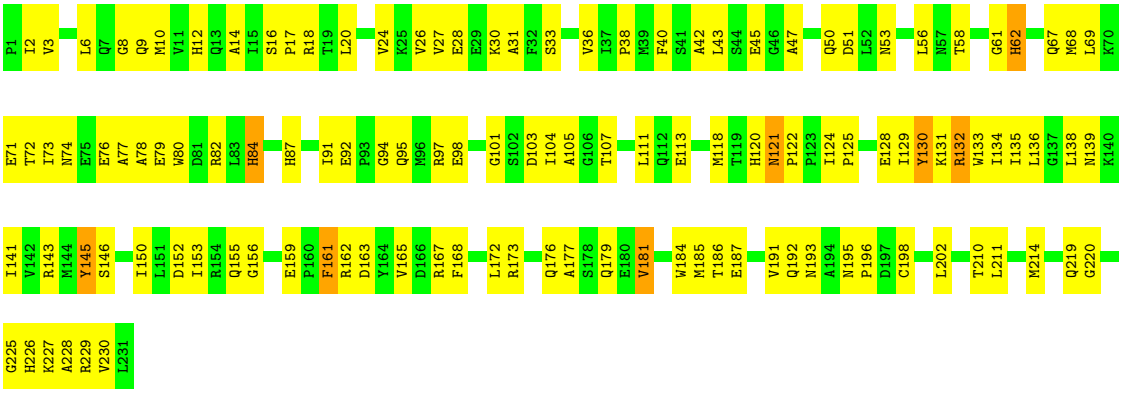




• Molecule 1: capsid protein

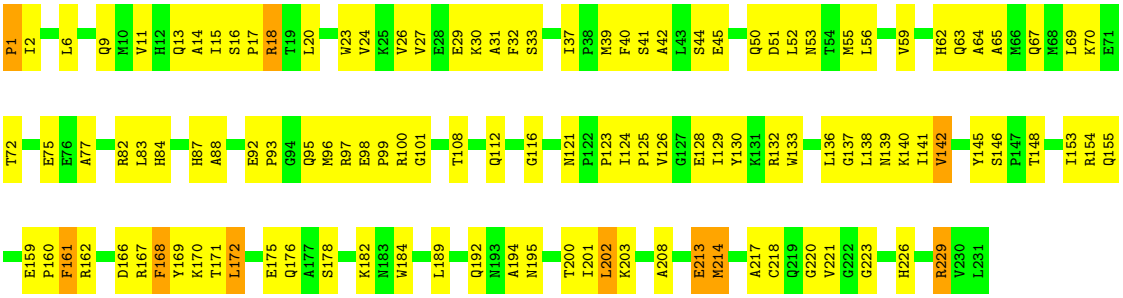
Chain 8A:





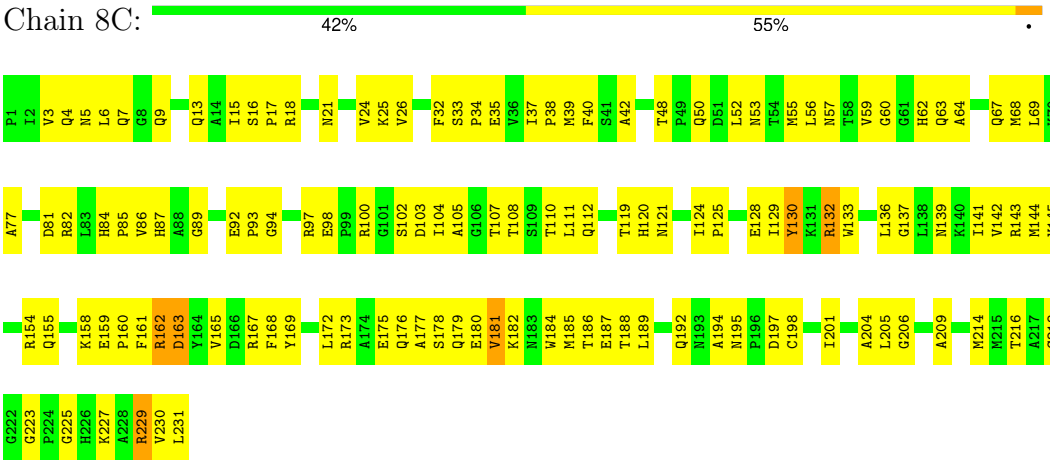
• Molecule 1: capsid protein

Chain 8B:



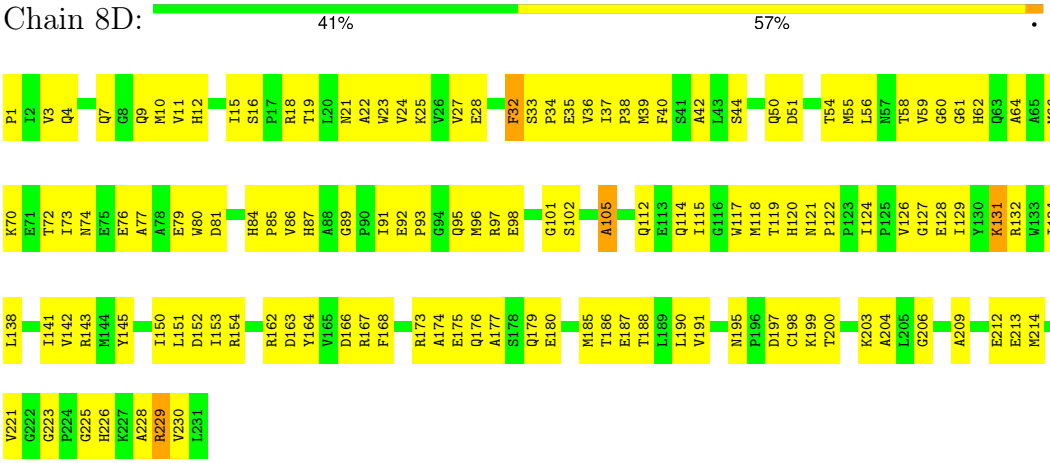
• Molecule 1: capsid protein

Chain 8C:



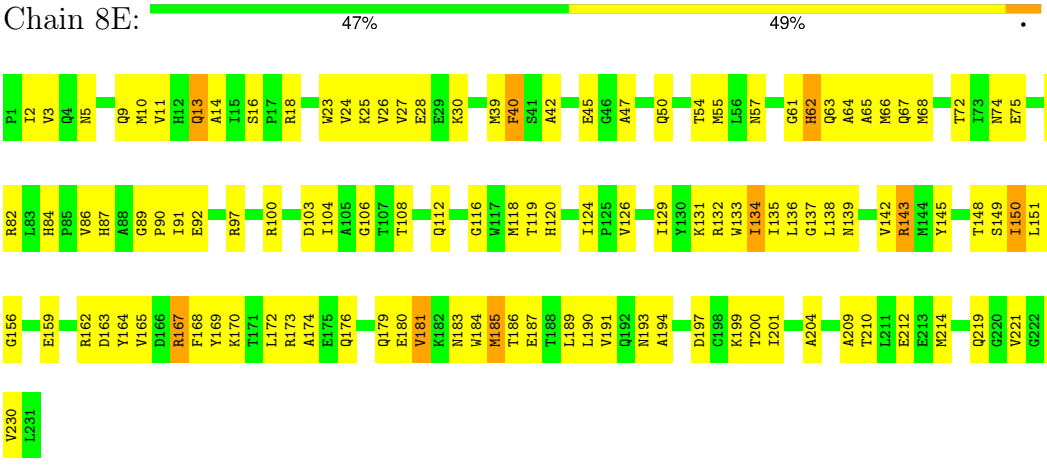
• Molecule 1: capsid protein

Chain 8D:



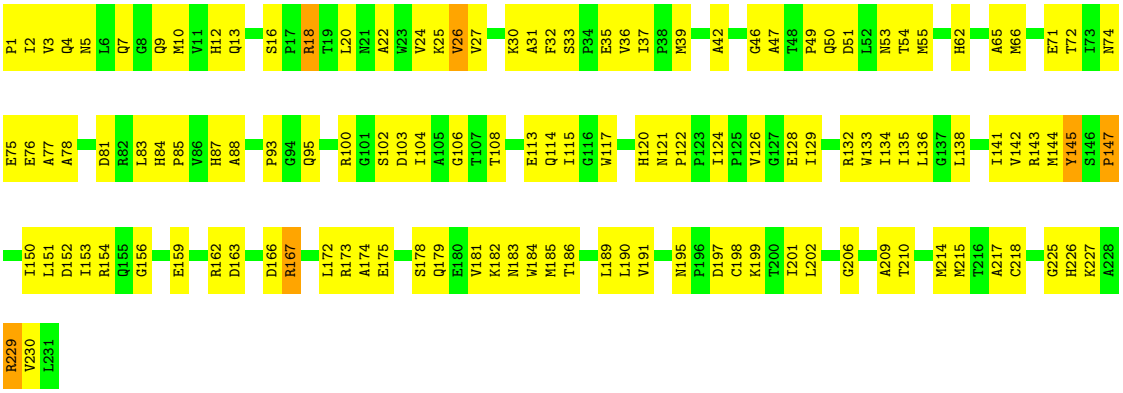
• Molecule 1: capsid protein

Chain 8E:



• Molecule 1: capsid protein

Chain 8F:



• Molecule 1: capsid protein

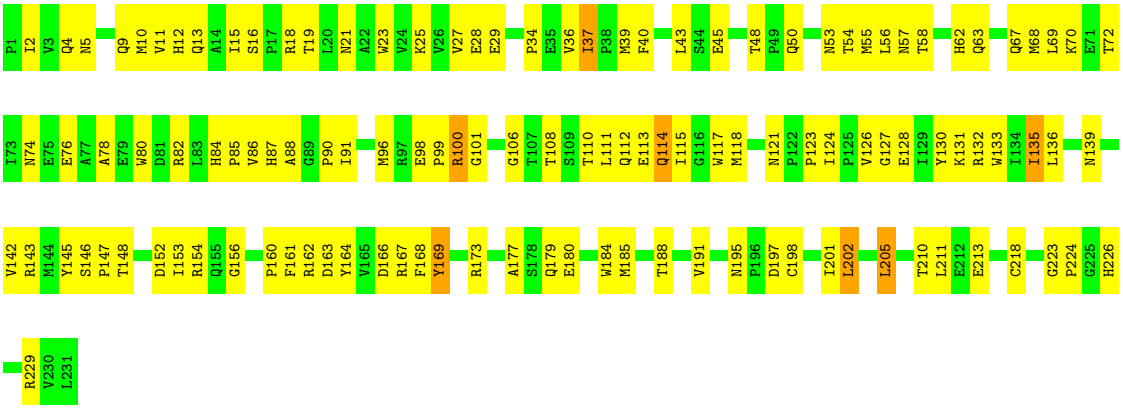
Chain 8G:

• Molecule 1: capsid protein

Chain 8H:

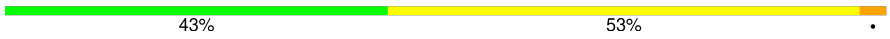
• Molecule 1: capsid protein

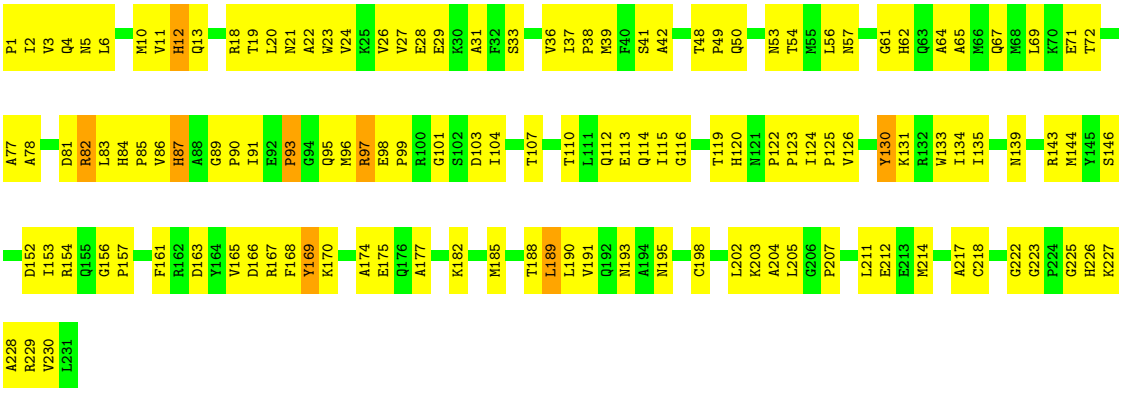
Chain 8I:



• Molecule 1: capsid protein

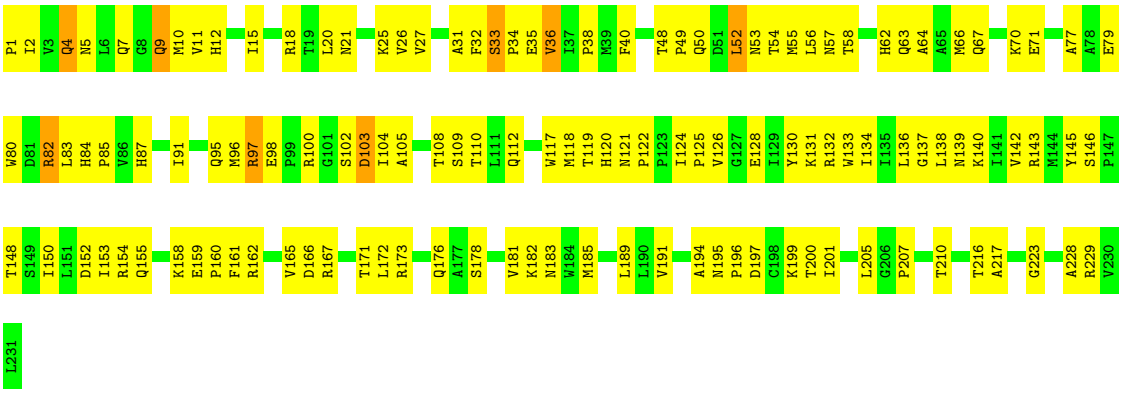
Chain 8J:





• Molecule 1: capsid protein

Chain 8K:

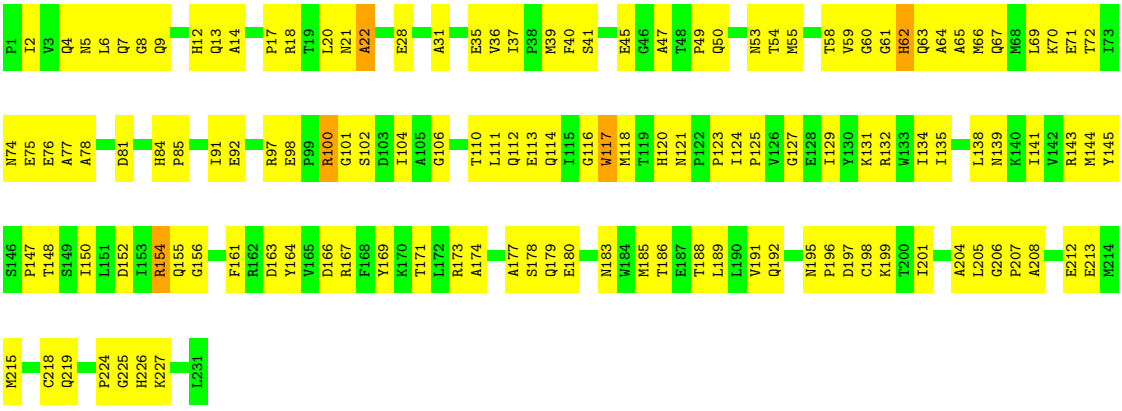


• Molecule 1: capsid protein

Chain 8L:

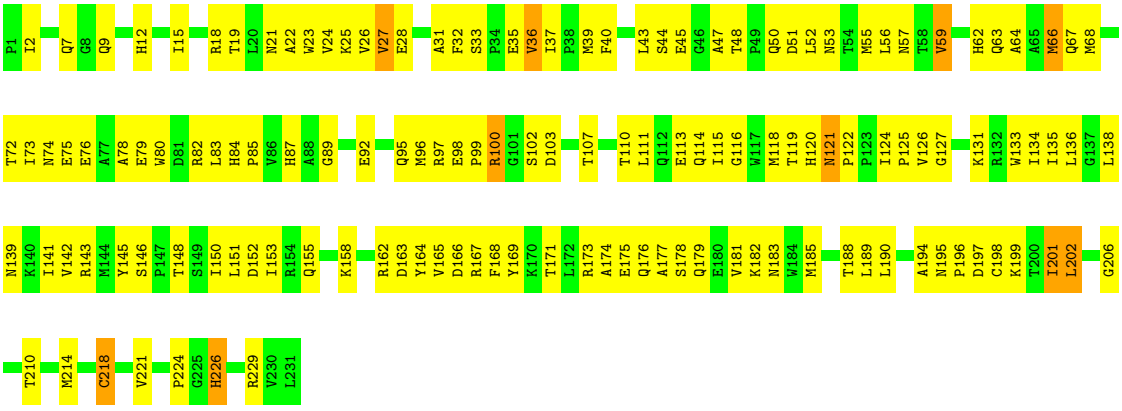
• Molecule 1: capsid protein

Chain 8M:



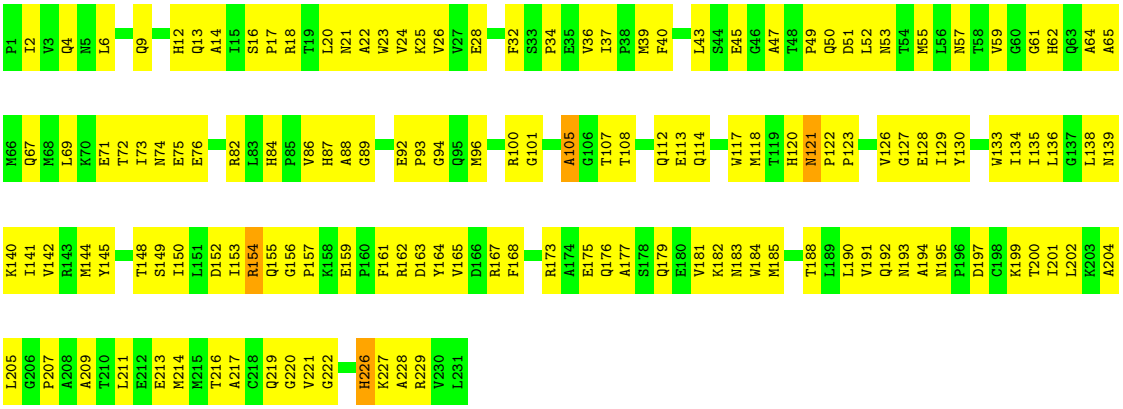
• Molecule 1: capsid protein

Chain 8N:



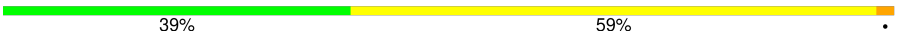
• Molecule 1: capsid protein

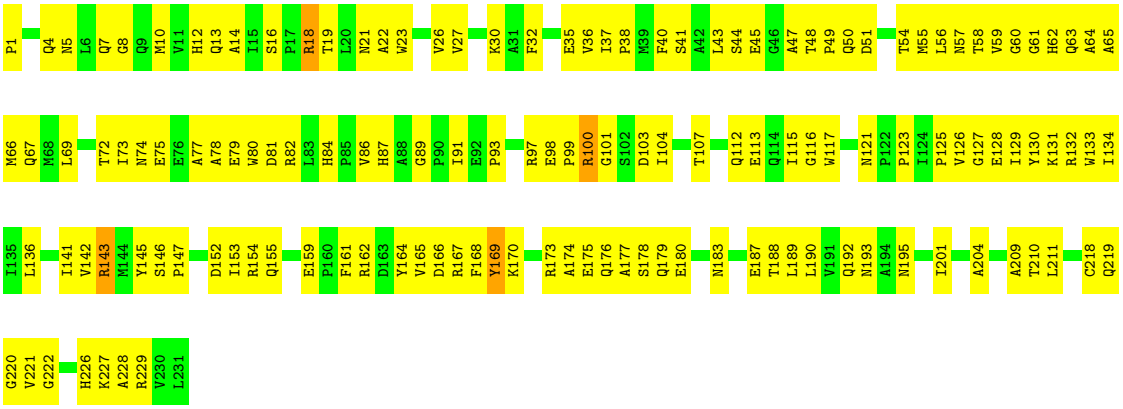
Chain 8O:



• Molecule 1: capsid protein

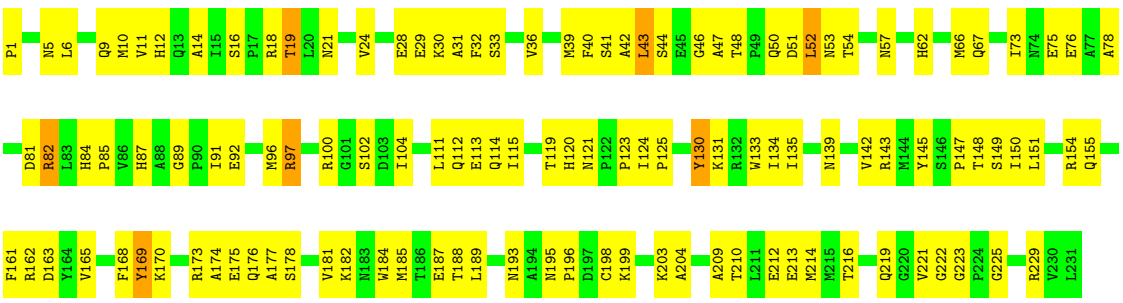
Chain 8P:





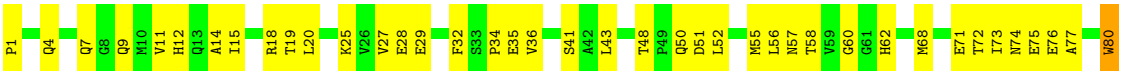
• Molecule 1: capsid protein

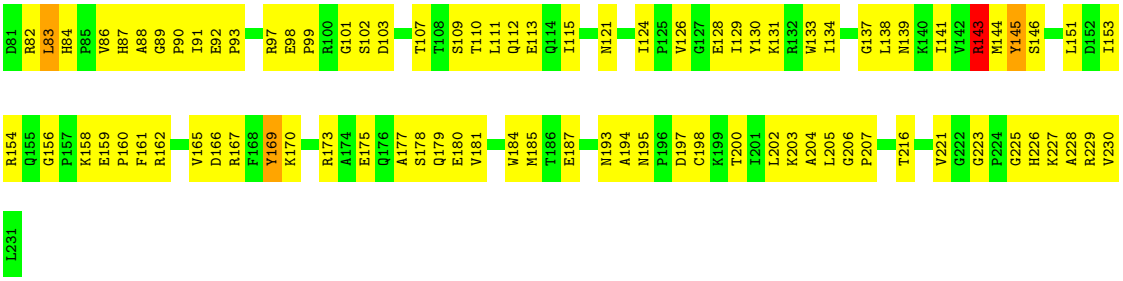
Chain 8Q:



• Molecule 1: capsid protein

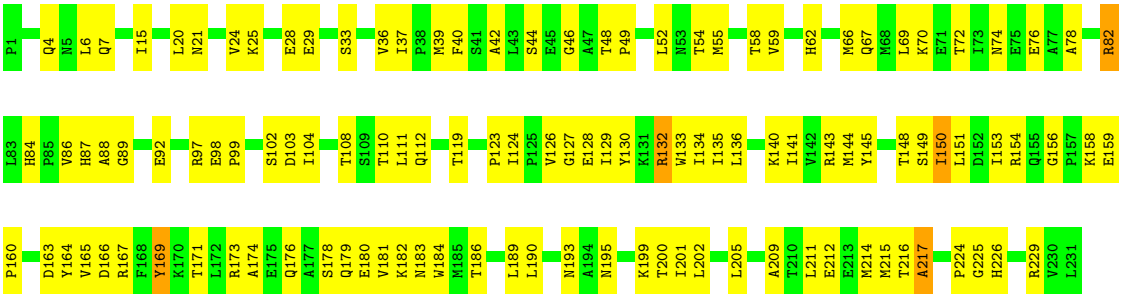
Chain 8R:





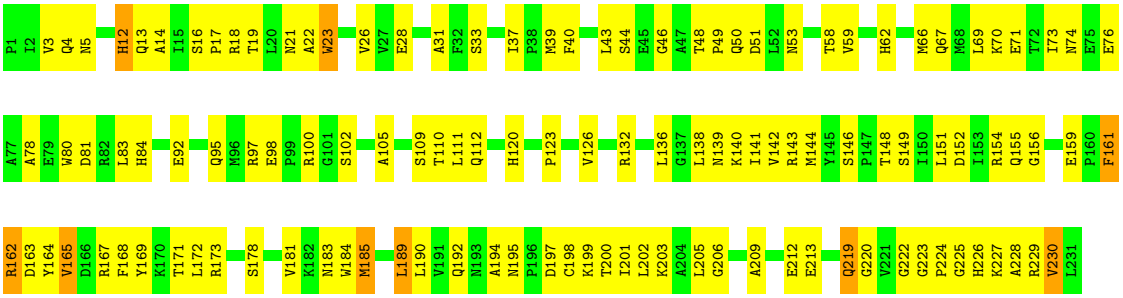
• Molecule 1: capsid protein

Chain 8S:



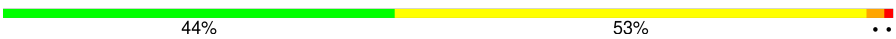
• Molecule 1: capsid protein

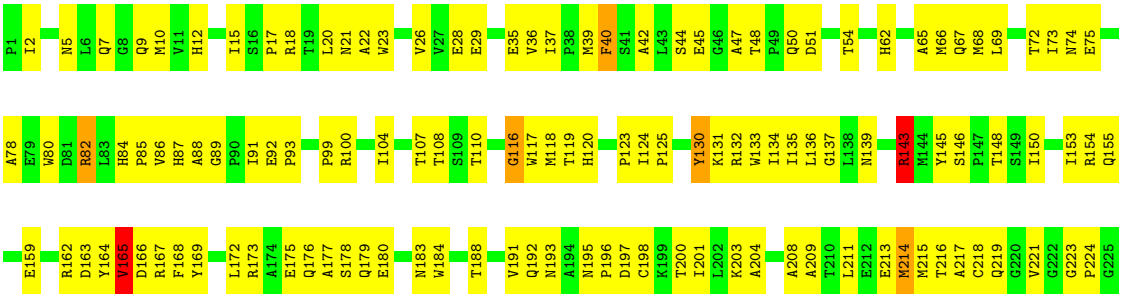
Chain 8T:



• Molecule 1: capsid protein

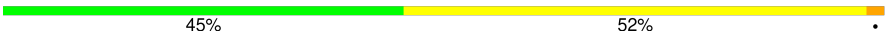
Chain 8U:





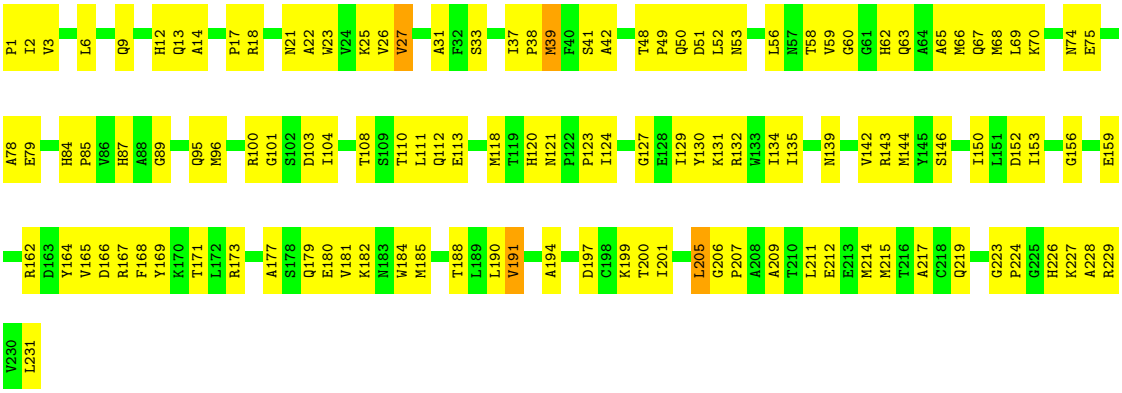
• Molecule 1: capsid protein

Chain 8V:



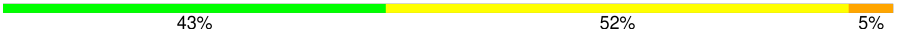
• Molecule 1: capsid protein

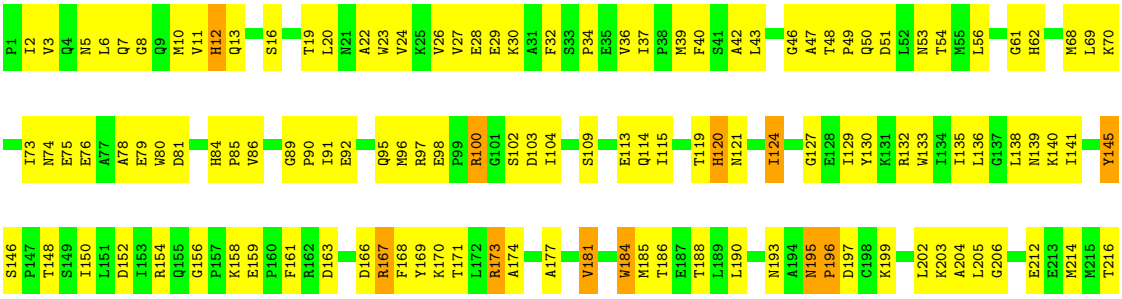
Chain 8W:



• Molecule 1: capsid protein

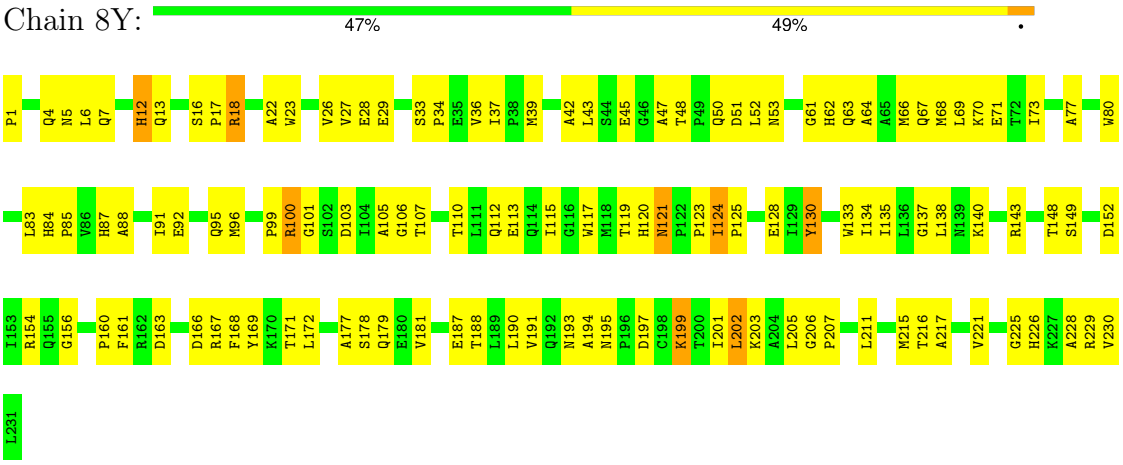
Chain 8X:





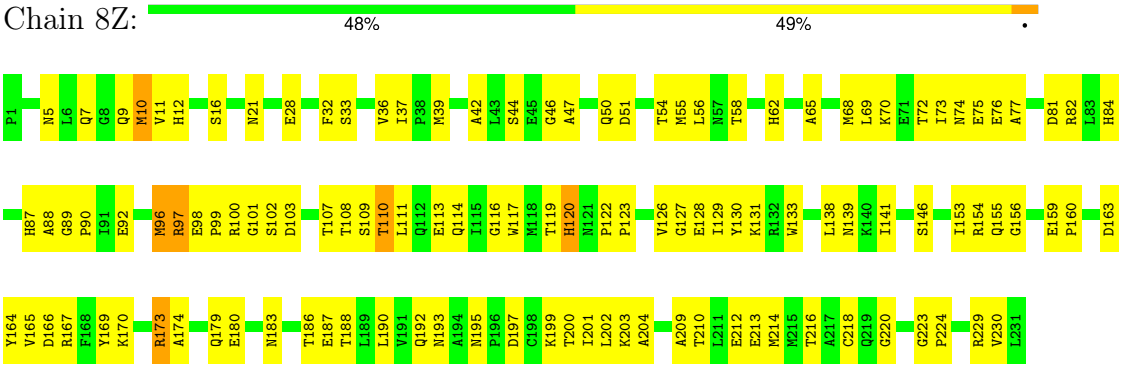
• Molecule 1: capsid protein

Chain 8Y:



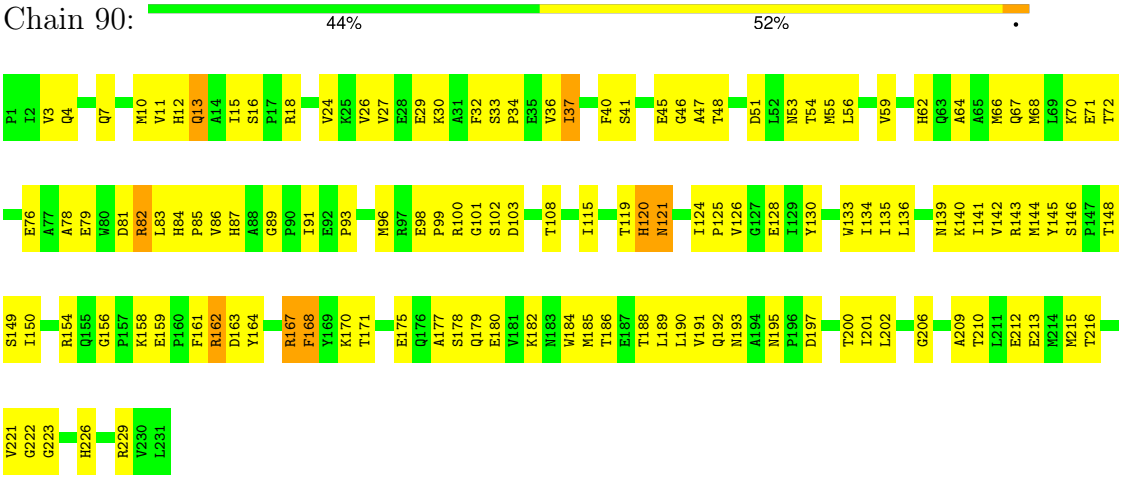
• Molecule 1: capsid protein

Chain 8Z:



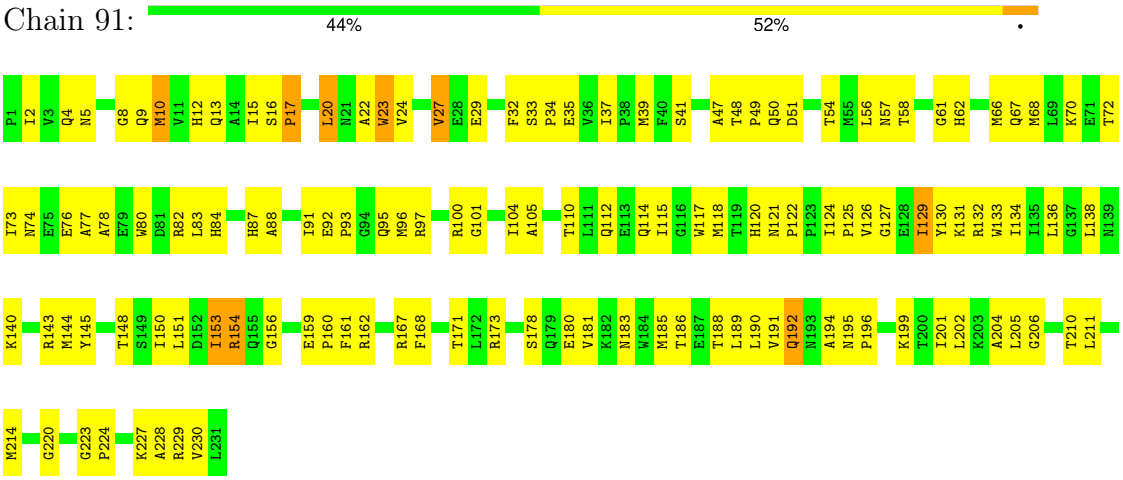
• Molecule 1: capsid protein

Chain 90:



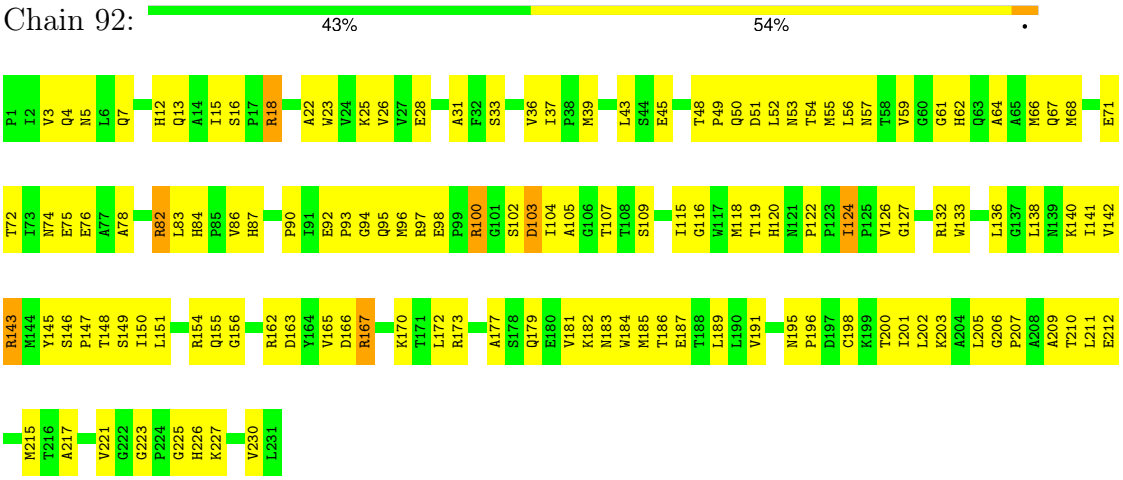
• Molecule 1: capsid protein

Chain 91:



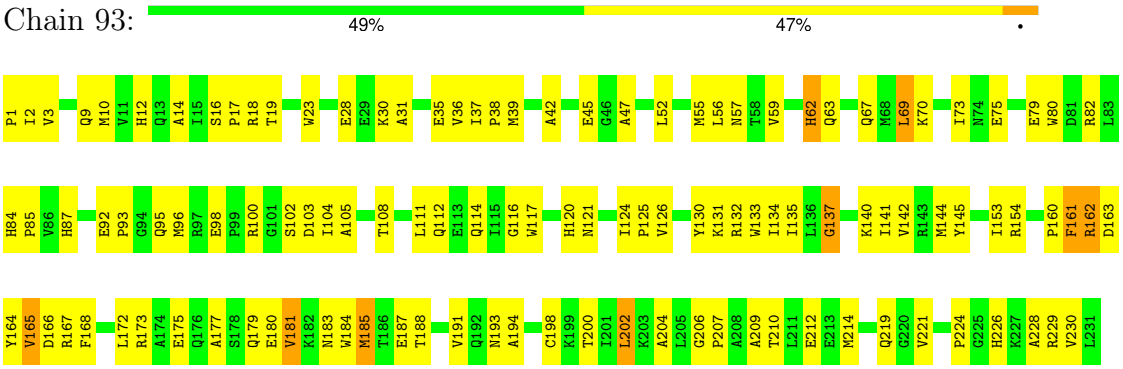
• Molecule 1: capsid protein

Chain 92:



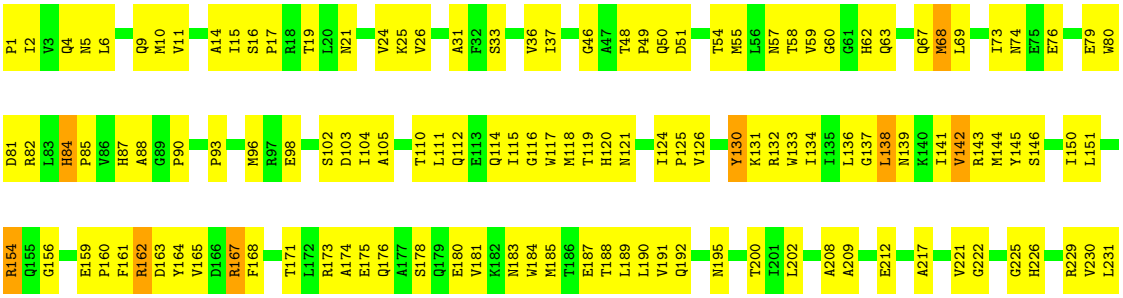
• Molecule 1: capsid protein

Chain 93:



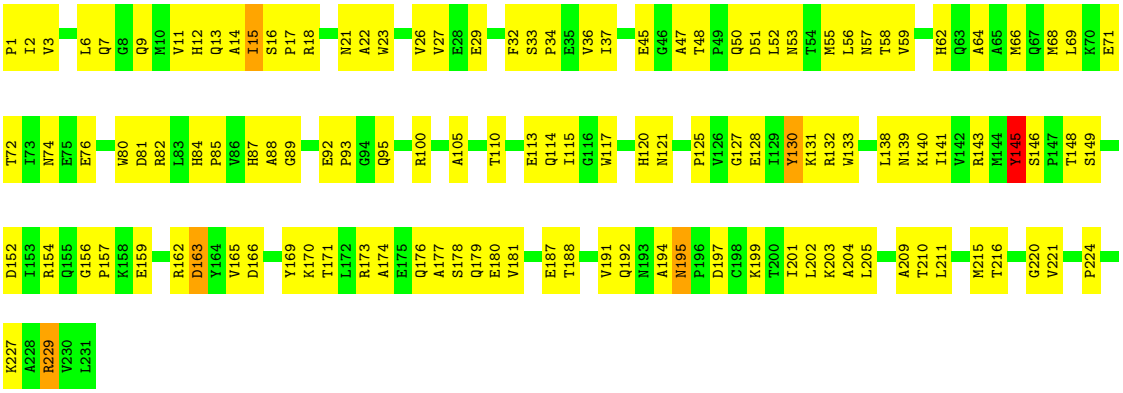
• Molecule 1: capsid protein

Chain 94:



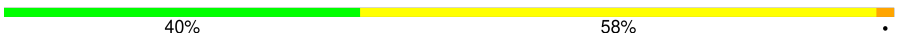
• Molecule 1: capsid protein

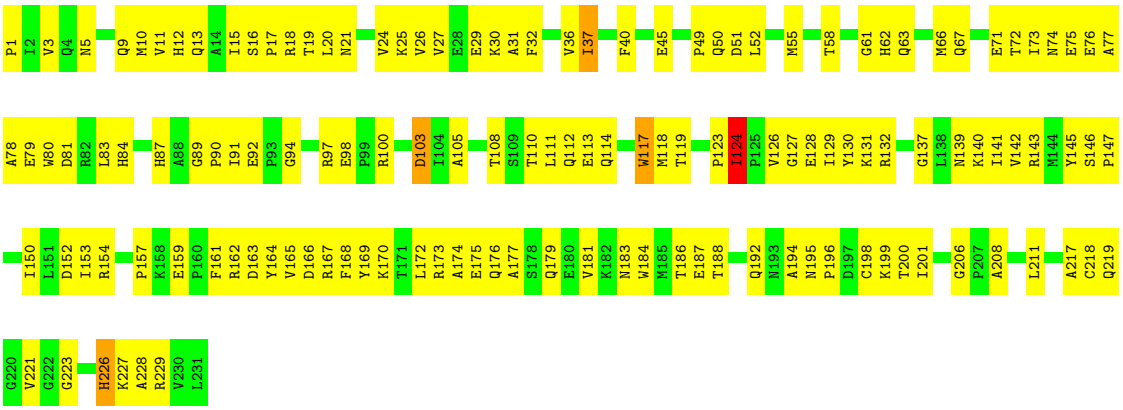
Chain 95:



• Molecule 1: capsid protein

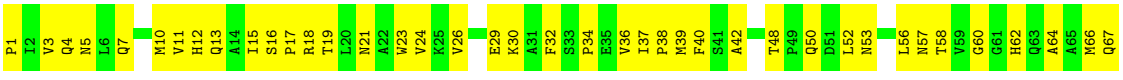
Chain 96:

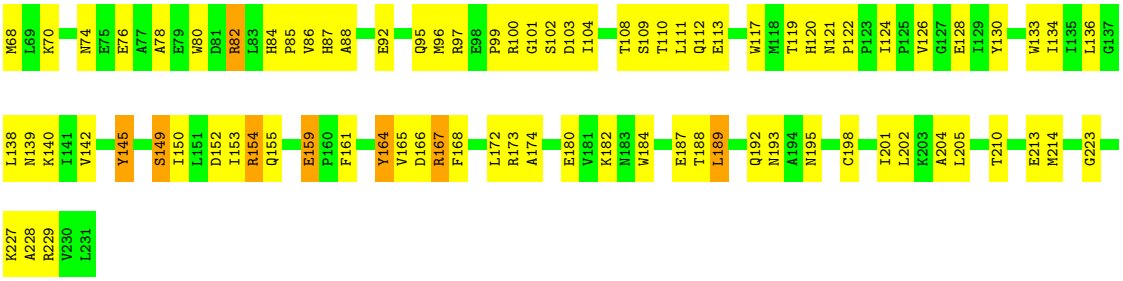




• Molecule 1: capsid protein

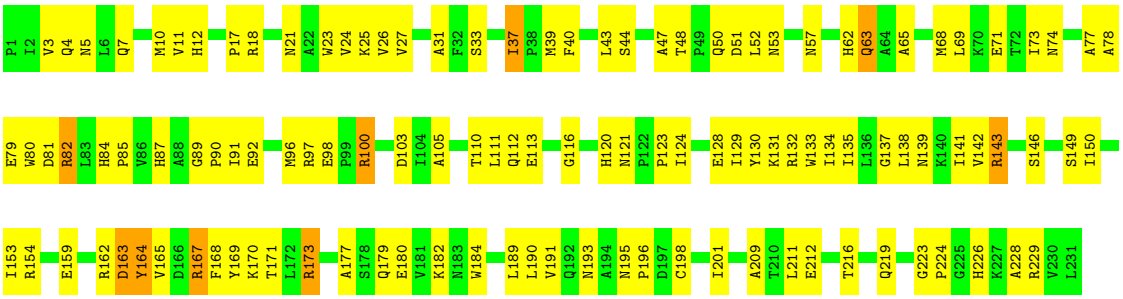
Chain 97:





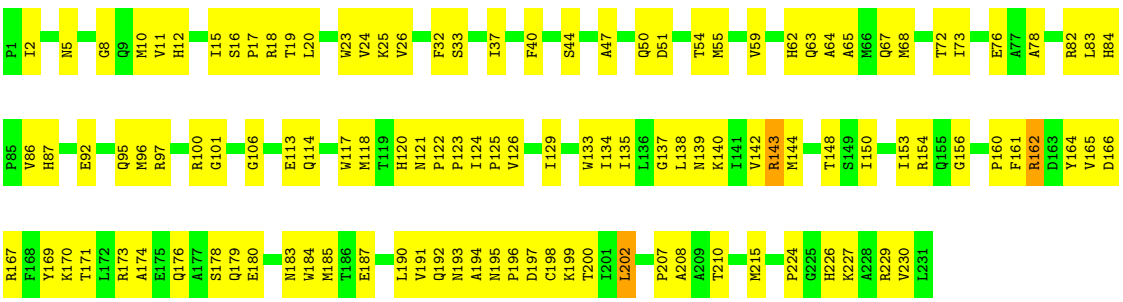
• Molecule 1: capsid protein

Chain 98:



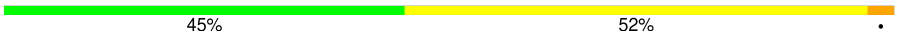
• Molecule 1: capsid protein

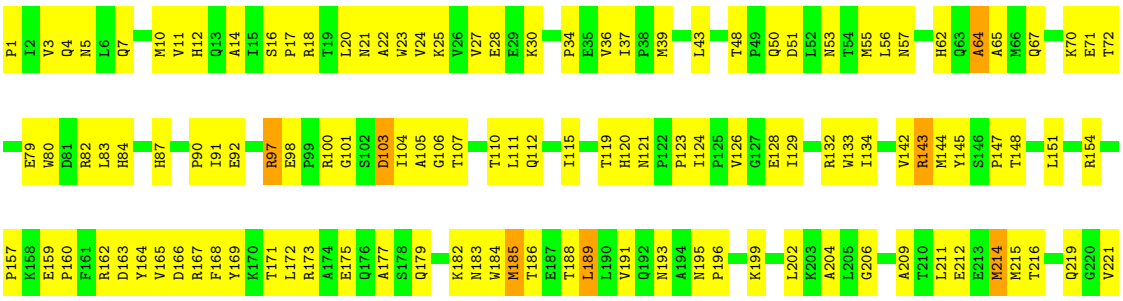
Chain 99:



• Molecule 1: capsid protein

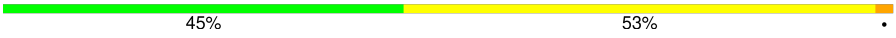
Chain 9a:





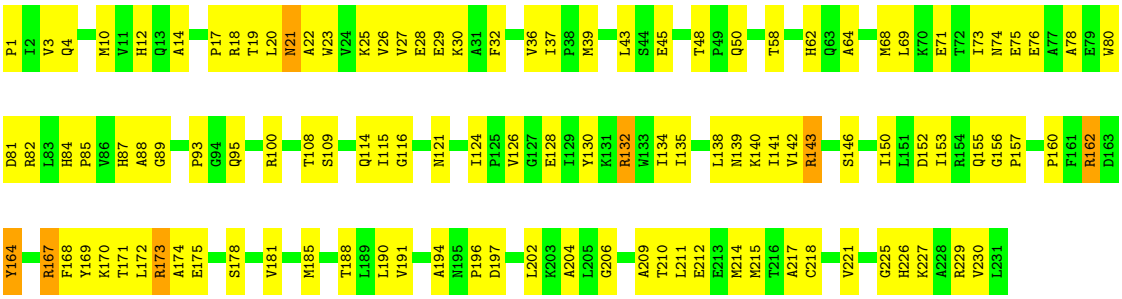
• Molecule 1: capsid protein

Chain 9b:



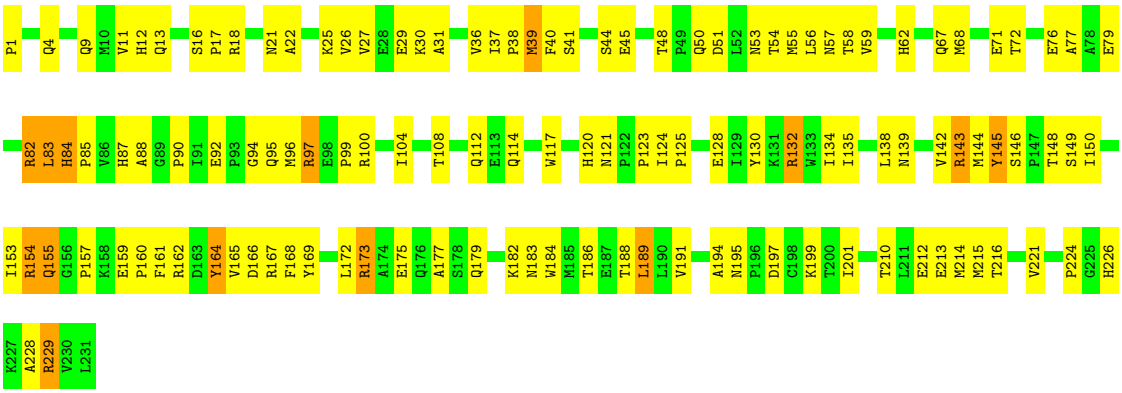
• Molecule 1: capsid protein

Chain 9c:



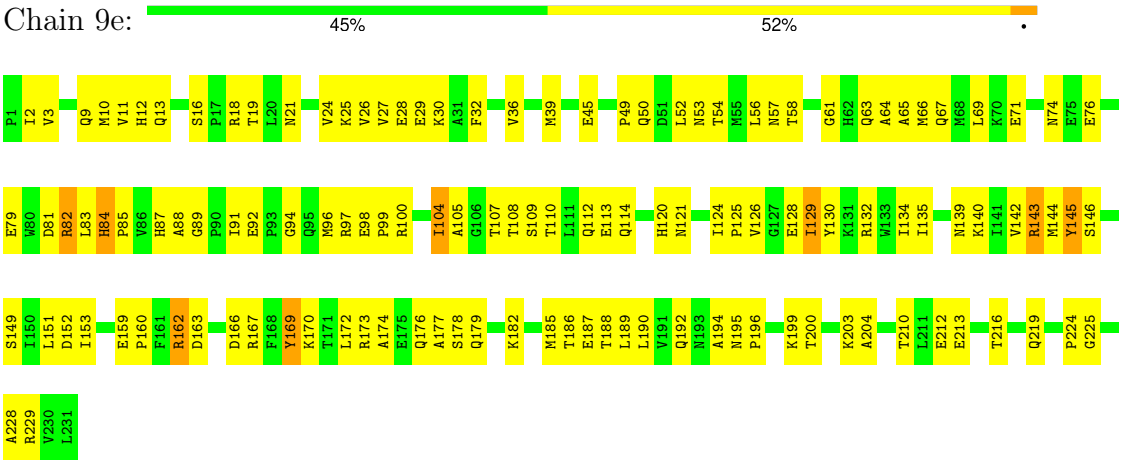
• Molecule 1: capsid protein

Chain 9d:



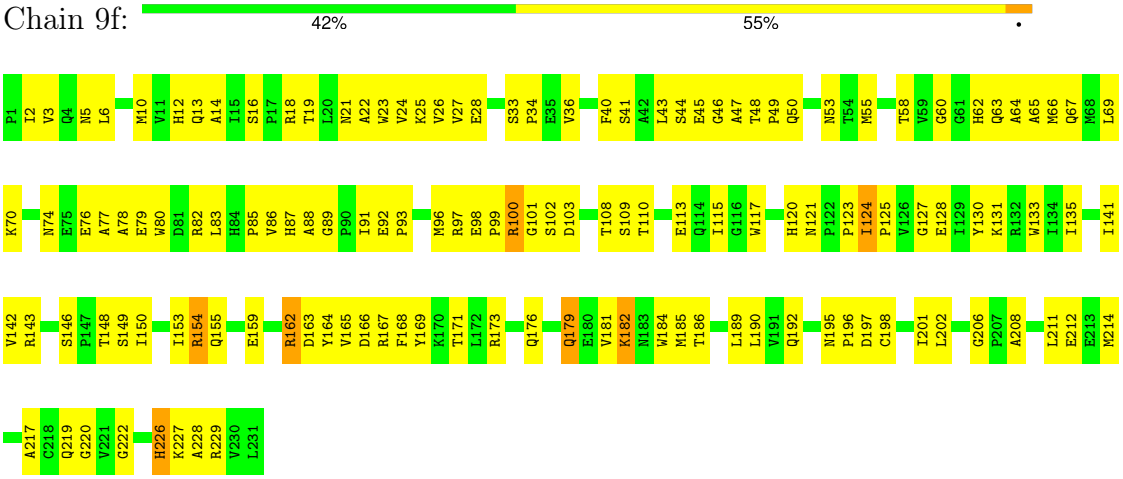
• Molecule 1: capsid protein

Chain 9e:



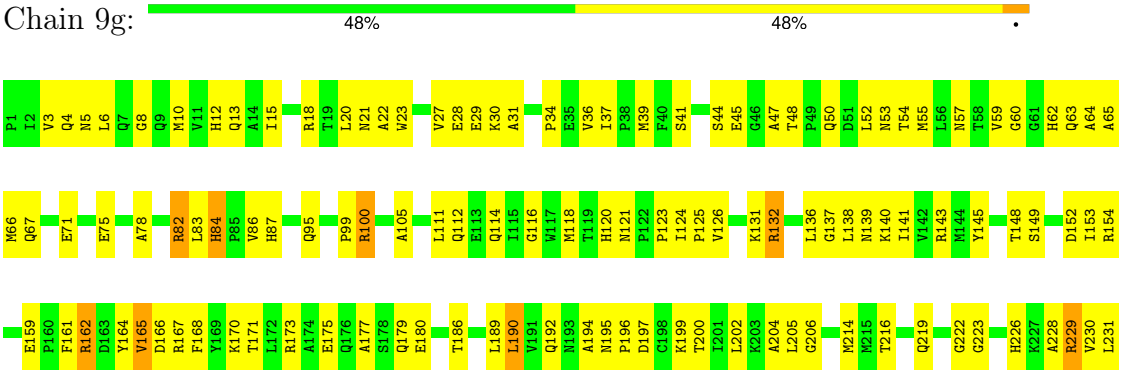
• Molecule 1: capsid protein

Chain 9f:



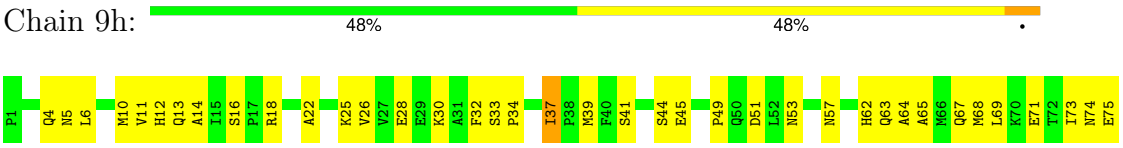
• Molecule 1: capsid protein

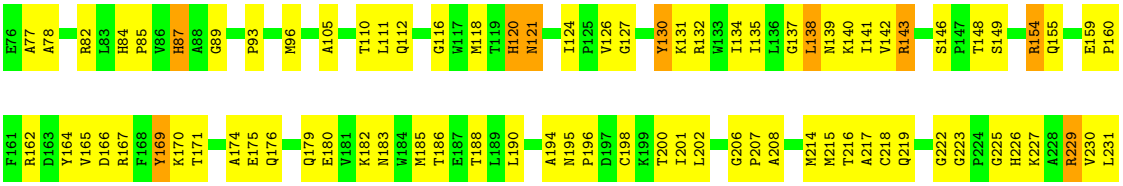
Chain 9g:



• Molecule 1: capsid protein

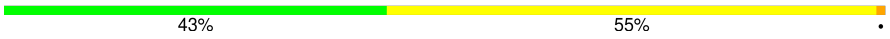
Chain 9h:





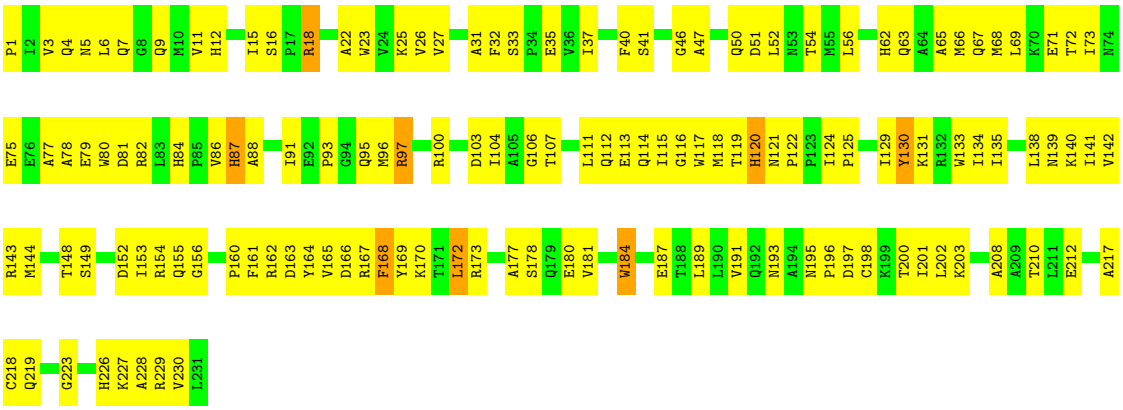
• Molecule 1: capsid protein

Chain 9i:



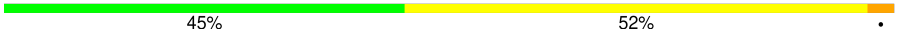
• Molecule 1: capsid protein

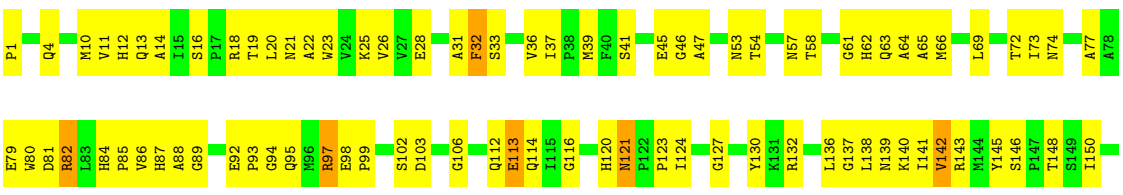
Chain 9j:

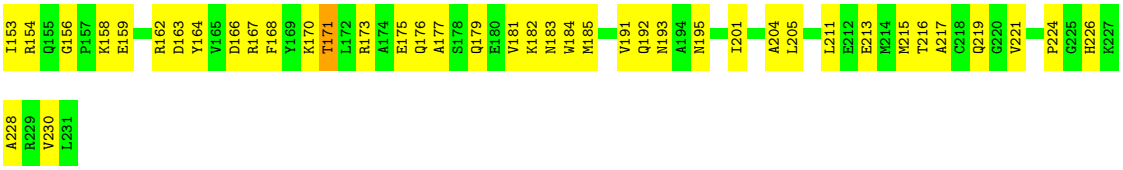


• Molecule 1: capsid protein

Chain 9k:

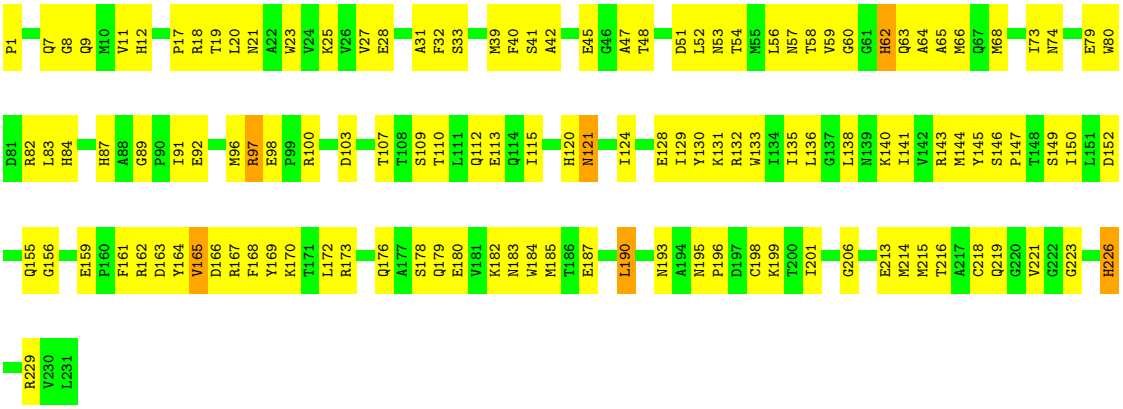






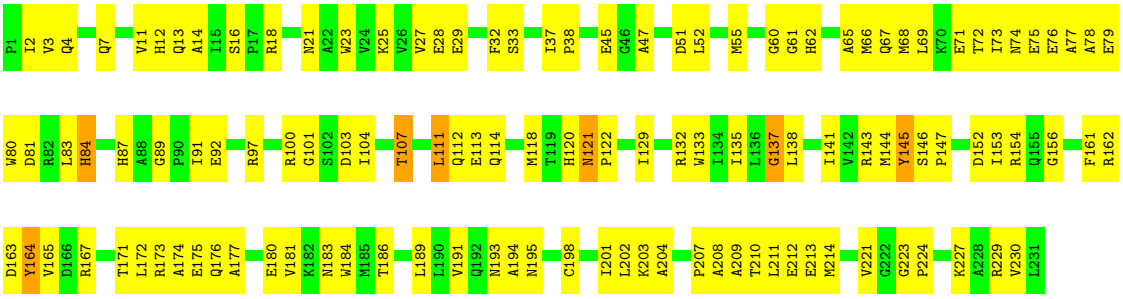
• Molecule 1: capsid protein

Chain 9l:



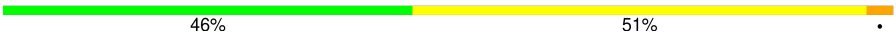
• Molecule 1: capsid protein

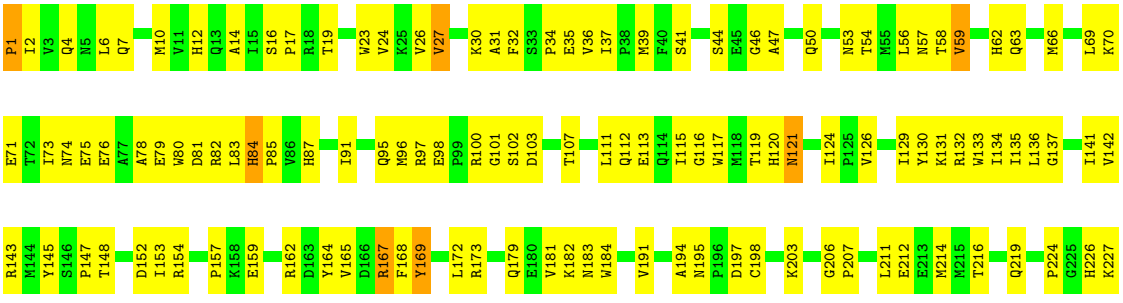
Chain 9m:



• Molecule 1: capsid protein

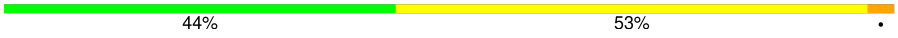
Chain 9n:

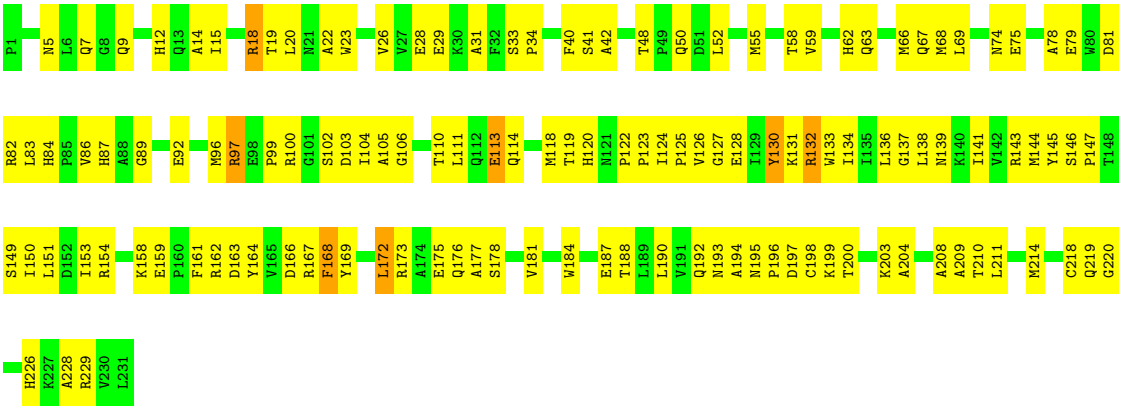




• Molecule 1: capsid protein

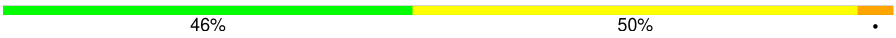
Chain 9o:

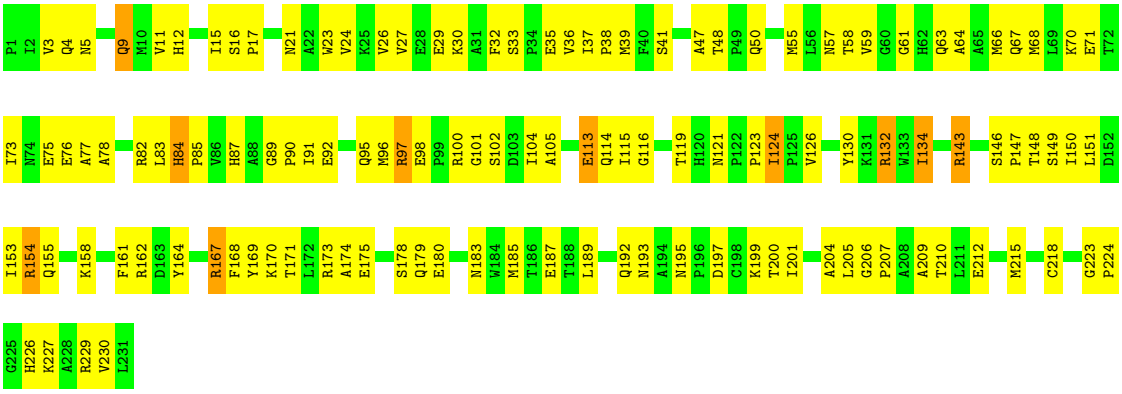




• Molecule 1: capsid protein

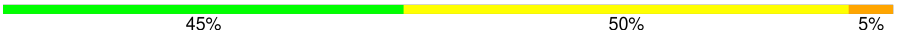
Chain 9p:

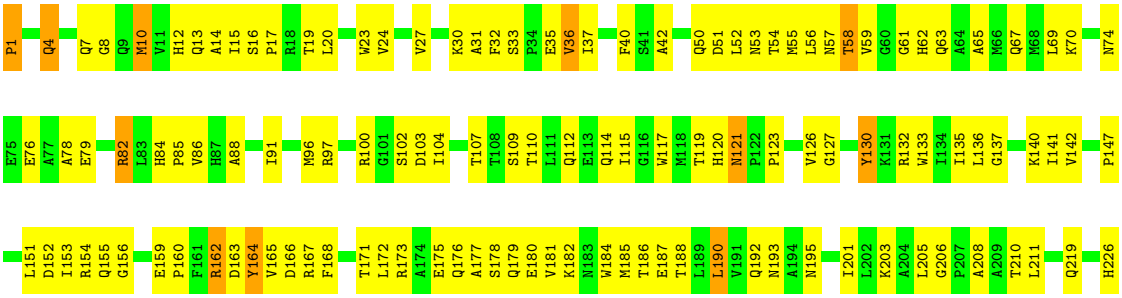




• Molecule 1: capsid protein

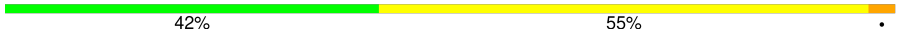
Chain 9q:





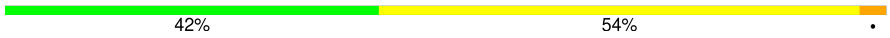
• Molecule 1: capsid protein

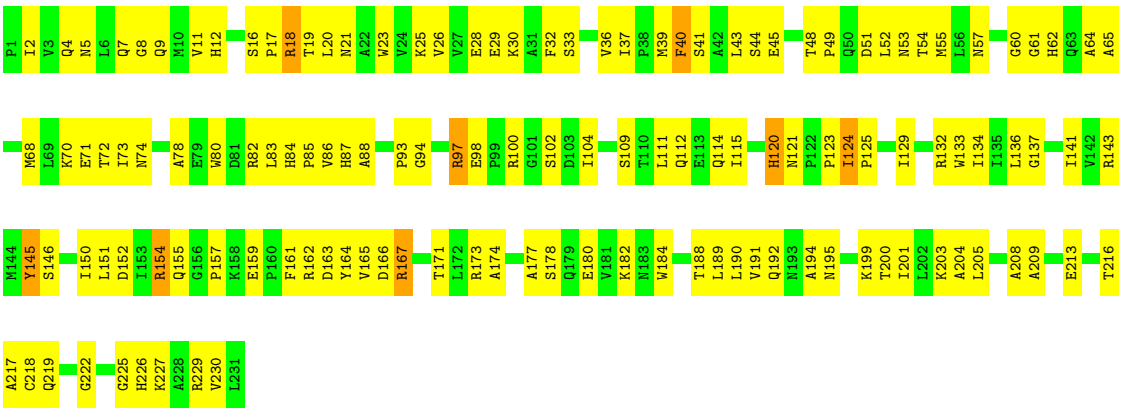
Chain 9r:



• Molecule 1: capsid protein

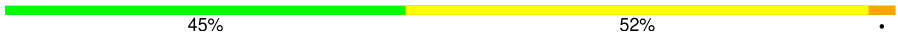
Chain 9s:

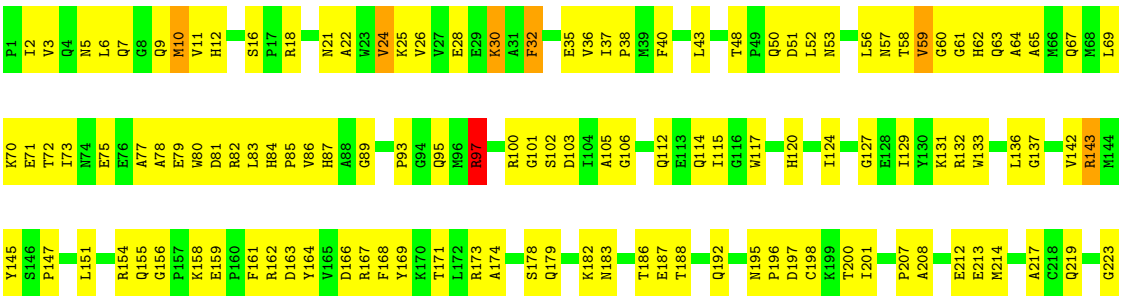




• Molecule 1: capsid protein

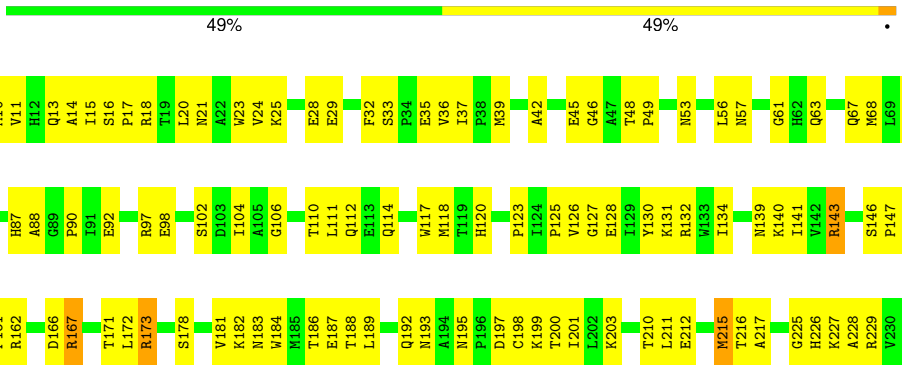
Chain 9t:





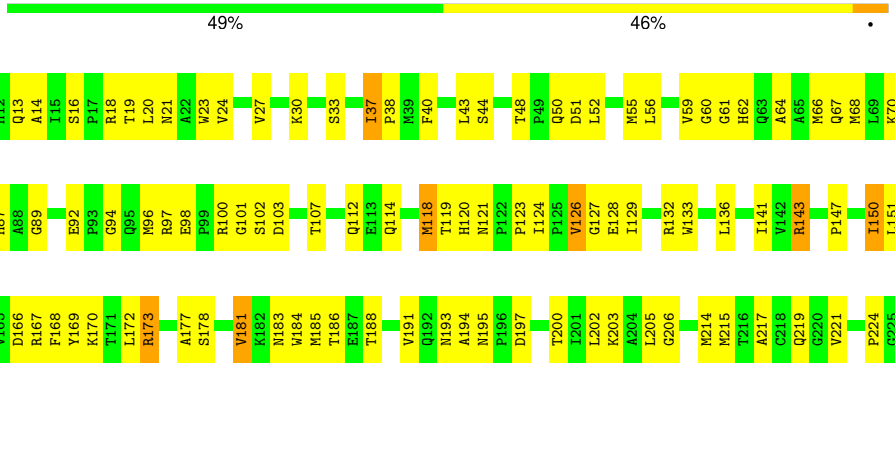
• Molecule 1: capsid protein

Chain 9u:



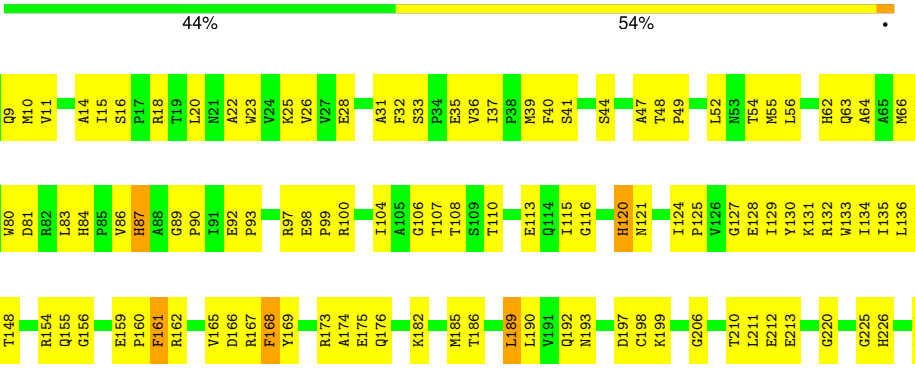
• Molecule 1: capsid protein

Chain 9v:



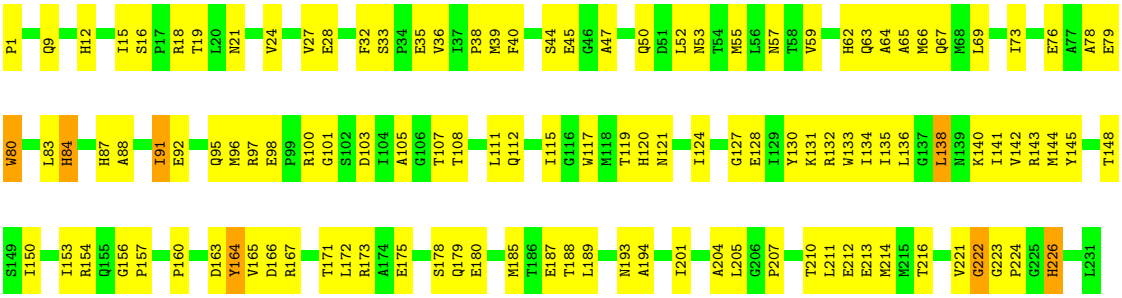
• Molecule 1: capsid protein

Chain 9w:



• Molecule 1: capsid protein

Chain 9x:

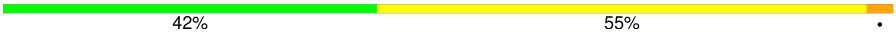


• Molecule 1: capsid protein

Chain 9y:

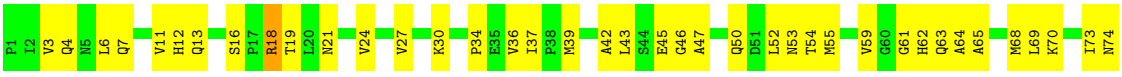
• Molecule 1: capsid protein

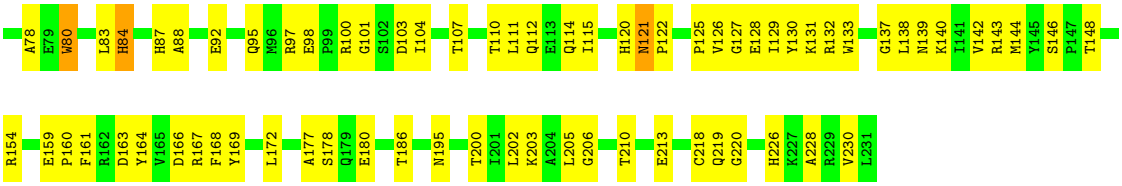
Chain 9z:



• Molecule 1: capsid protein

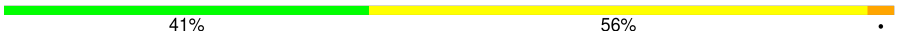
Chain 9A:

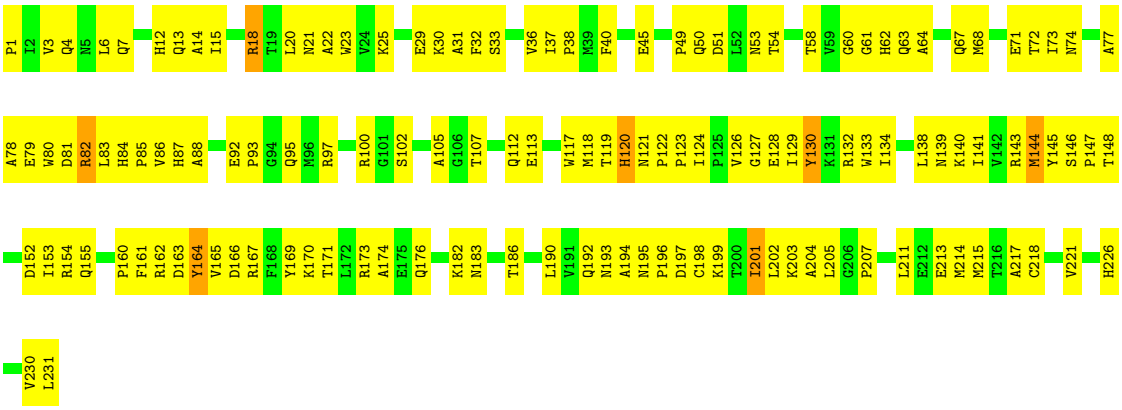




• Molecule 1: capsid protein

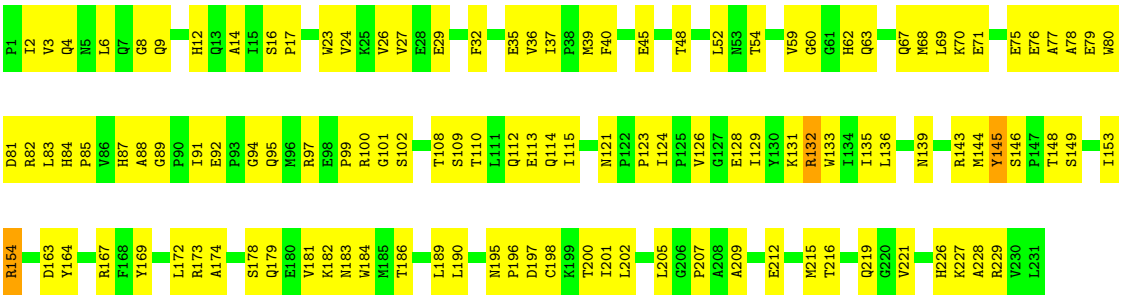
Chain 9B:





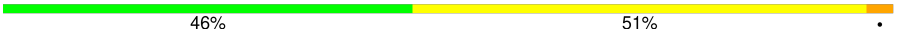
• Molecule 1: capsid protein

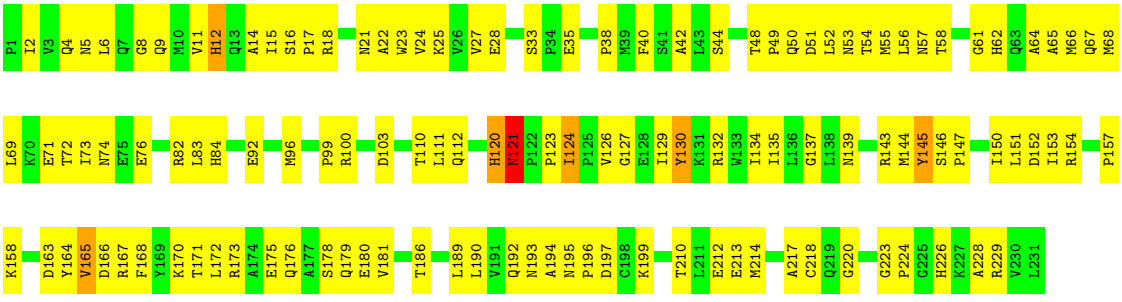
Chain 9C:



• Molecule 1: capsid protein

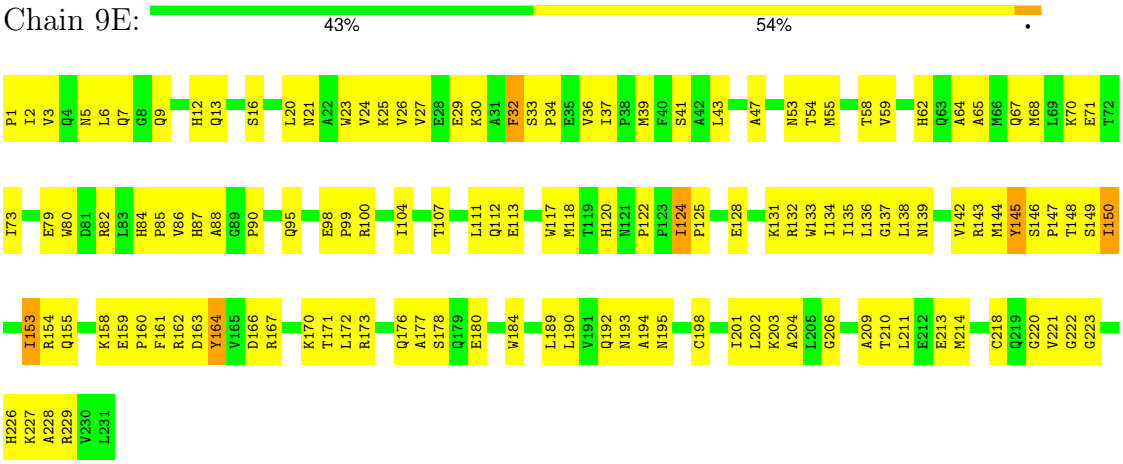
Chain 9D:





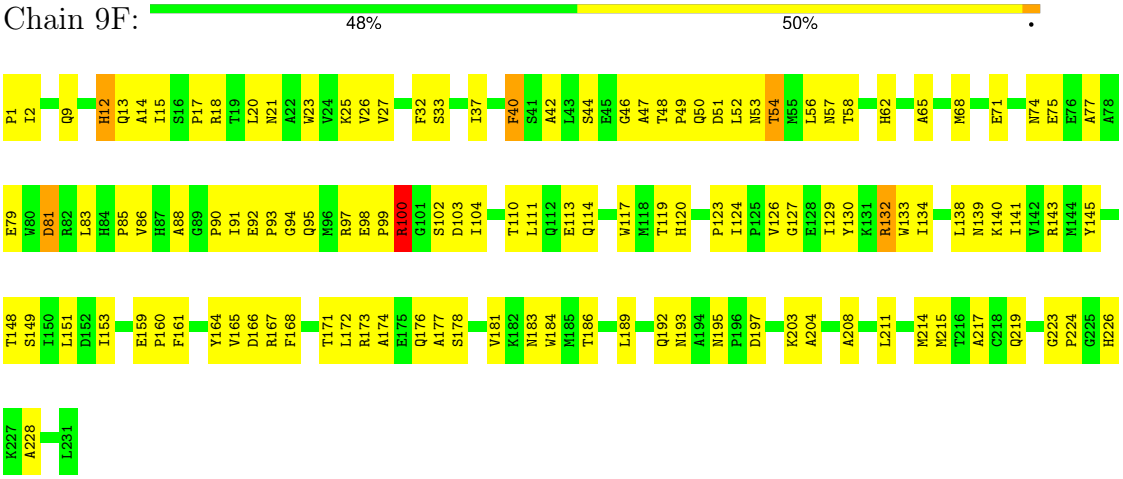
• Molecule 1: capsid protein

Chain 9E:



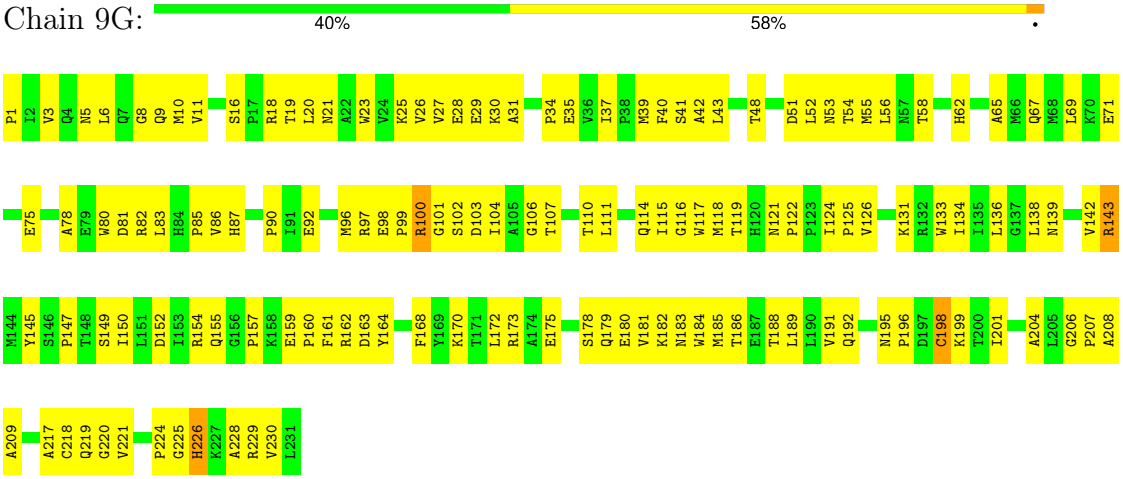
• Molecule 1: capsid protein

Chain 9F:



• Molecule 1: capsid protein

Chain 9G:

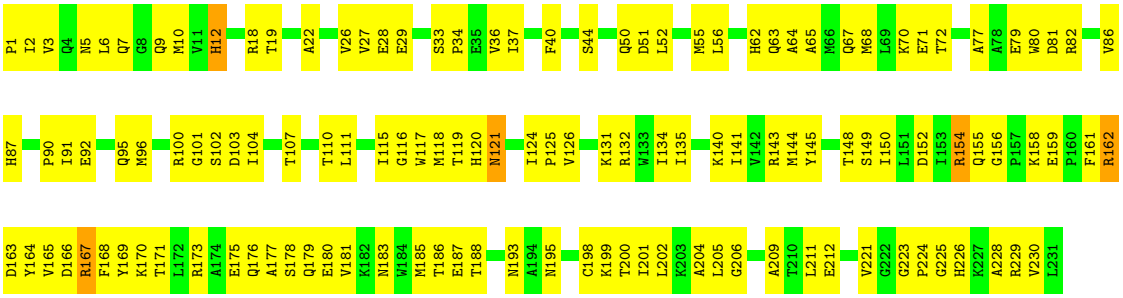


• Molecule 1: capsid protein

Chain 9H:

• Molecule 1: capsid protein

Chain 9I:

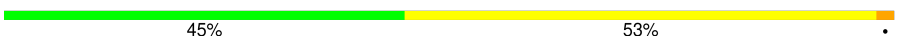


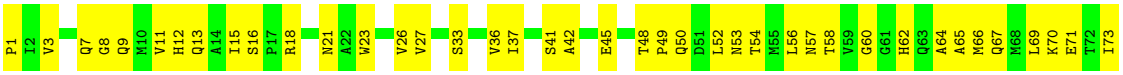
• Molecule 1: capsid protein

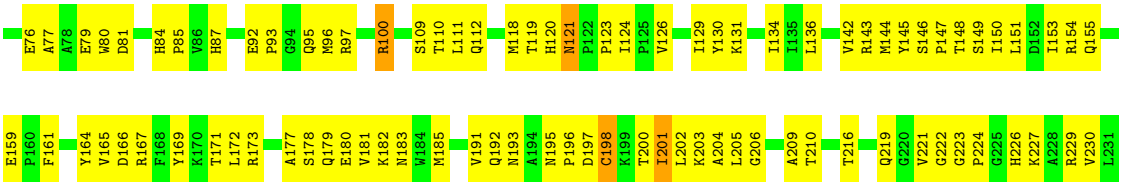
Chain 9J:

• Molecule 1: capsid protein

Chain 9K:

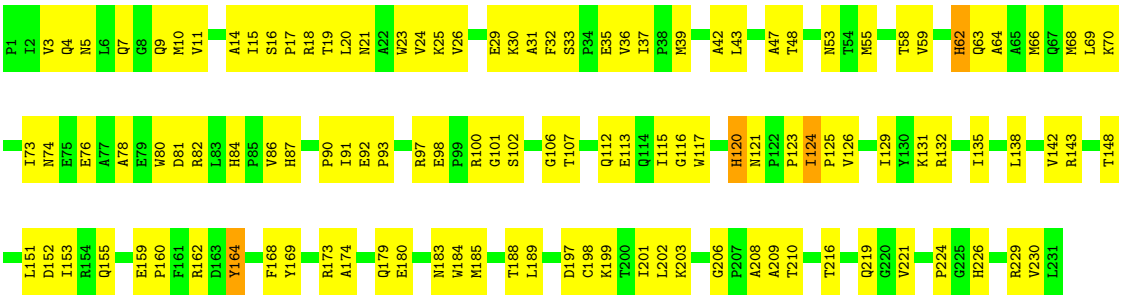






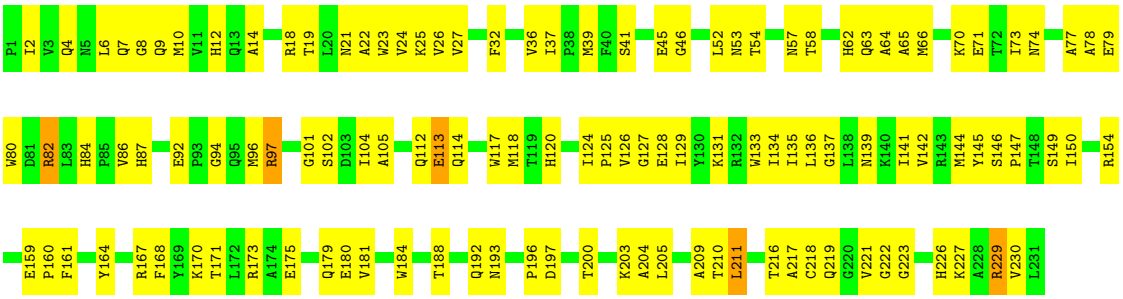
• Molecule 1: capsid protein

Chain 9L:



• Molecule 1: capsid protein

Chain 9M:

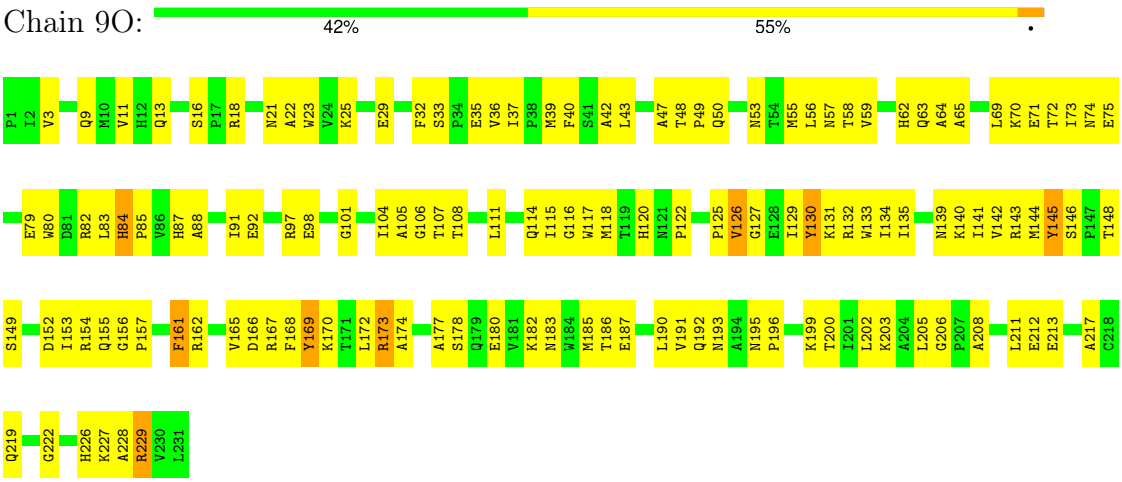


• Molecule 1: capsid protein

Chain 9N:

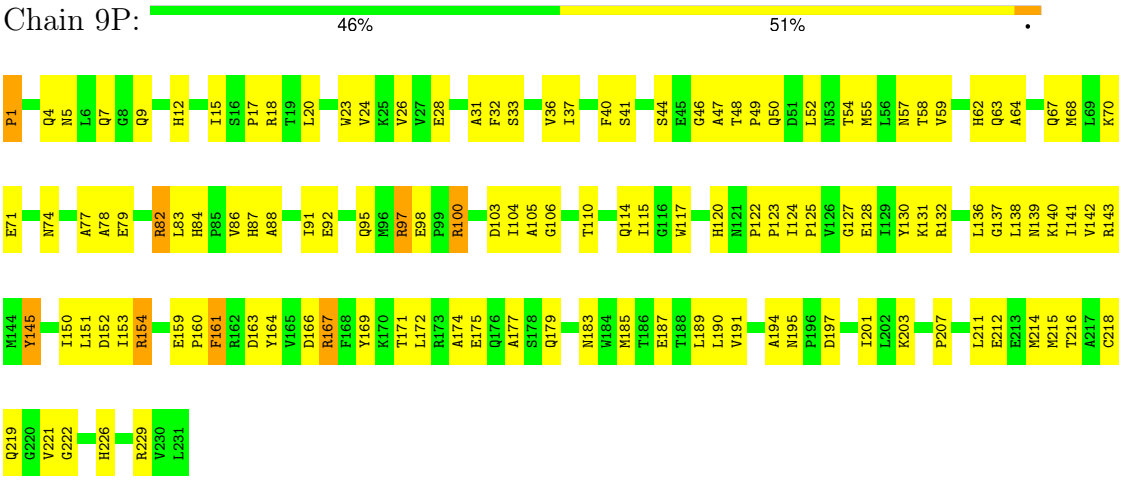
• Molecule 1: capsid protein

Chain 9O:



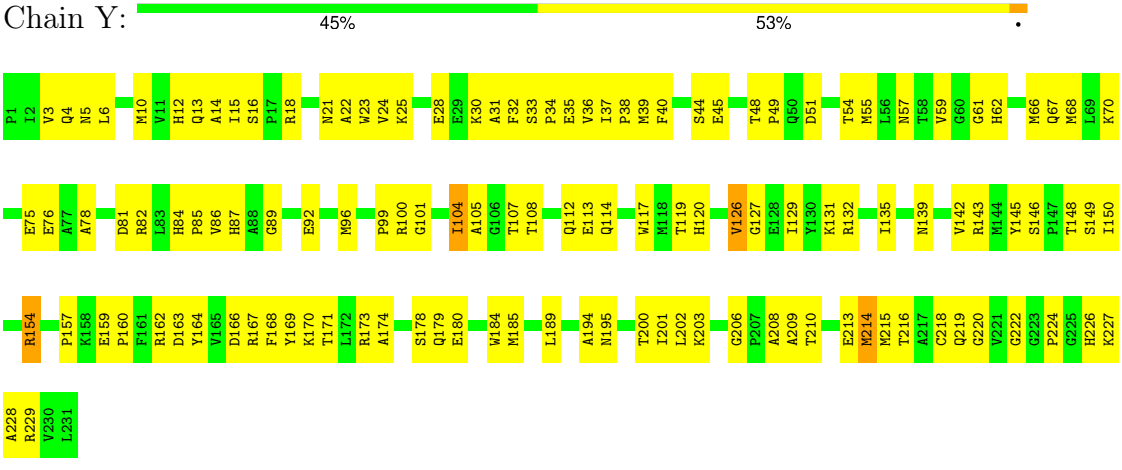
• Molecule 1: capsid protein

Chain 9P:



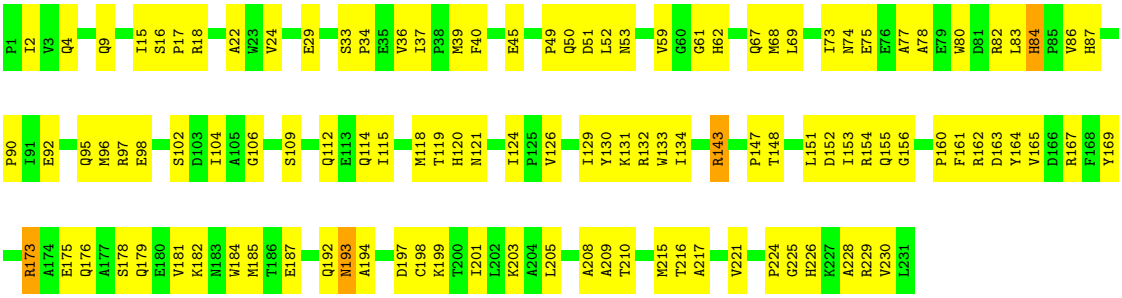
• Molecule 1: capsid protein

Chain Y:



• Molecule 1: capsid protein

Chain 9Q:

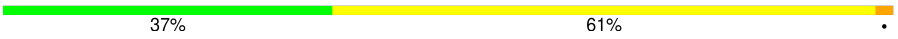


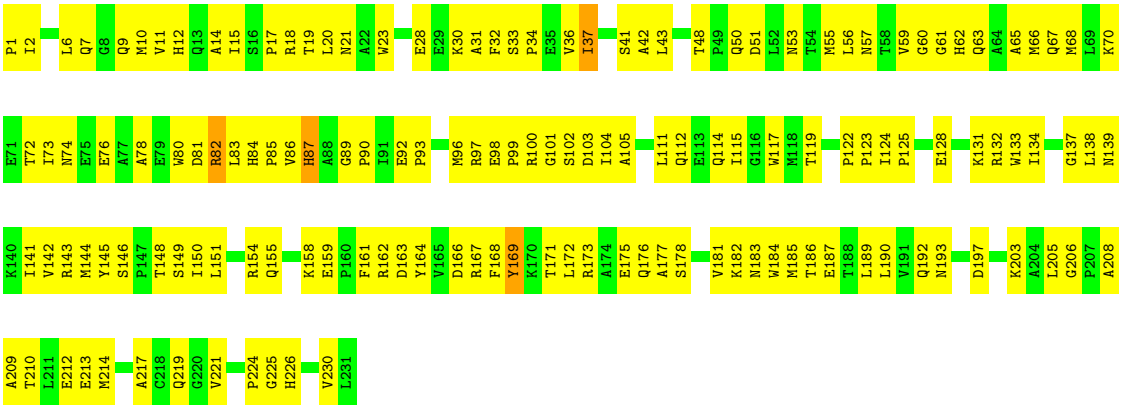
• Molecule 1: capsid protein

Chain 9R:

• Molecule 1: capsid protein

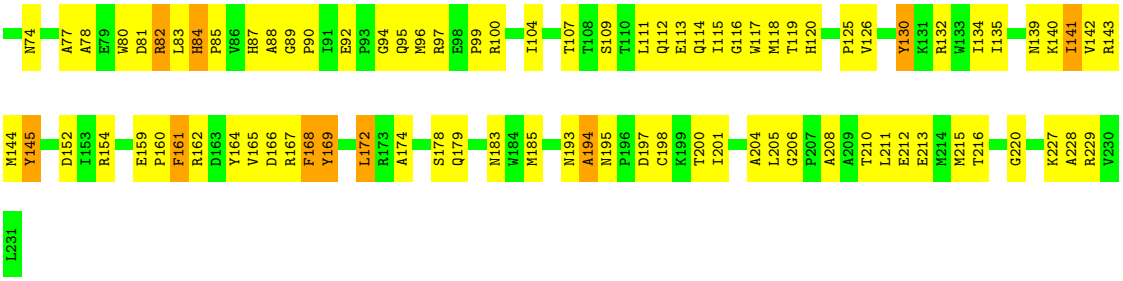
Chain 9S:





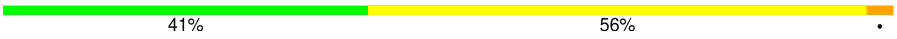
• Molecule 1: capsid protein

Chain 9T:



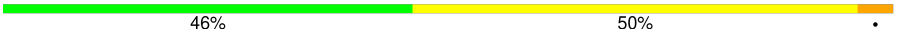
• Molecule 1: capsid protein

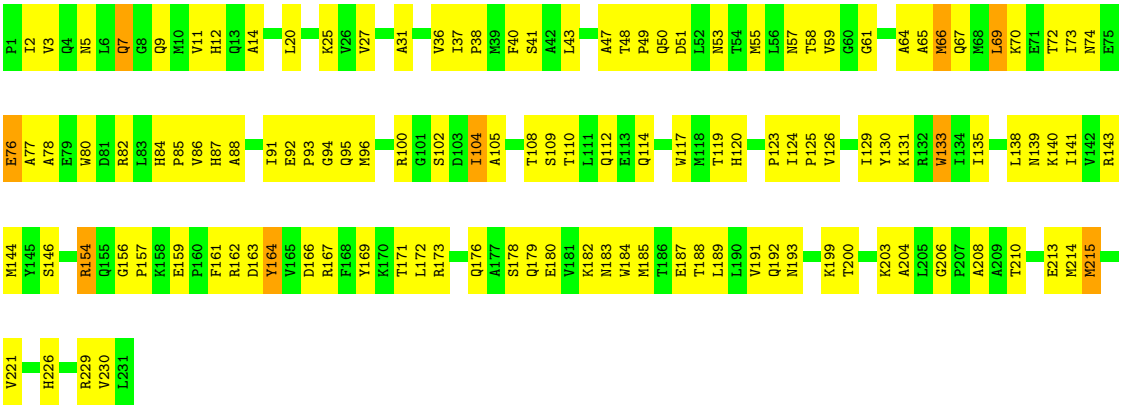
Chain 9U:



• Molecule 1: capsid protein

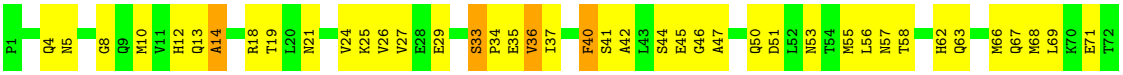
Chain 9V:

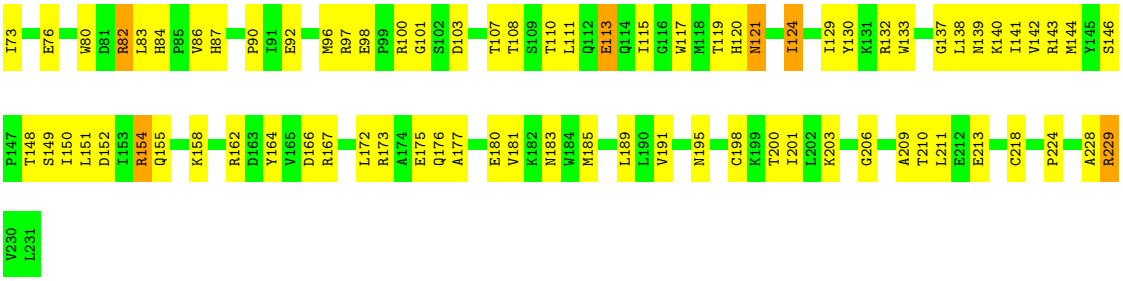




• Molecule 1: capsid protein

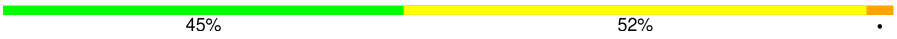
Chain 9W:

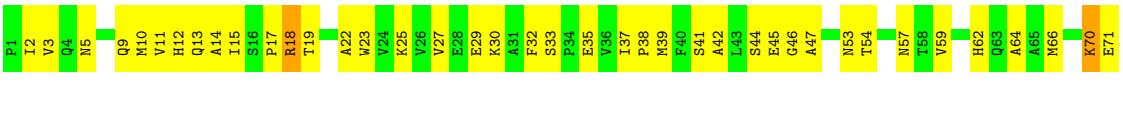




• Molecule 1: capsid protein

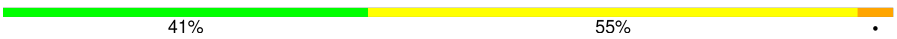
Chain 9X:

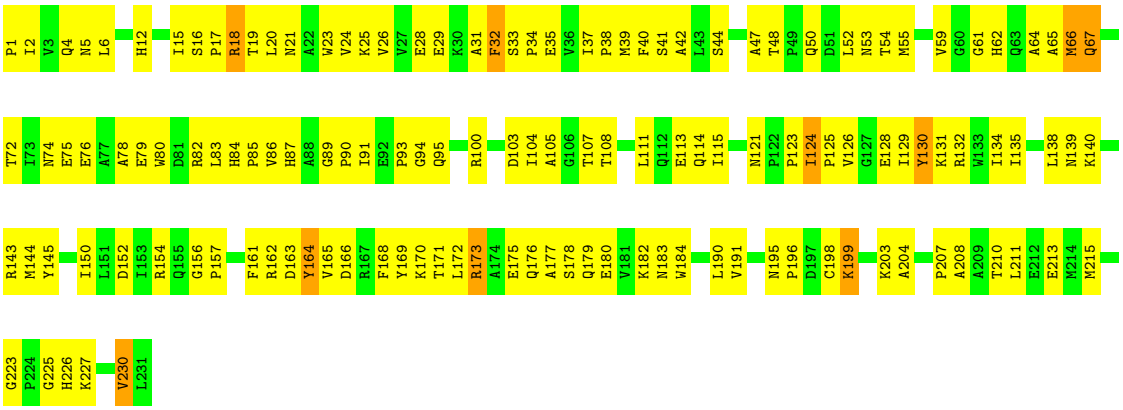




• Molecule 1: capsid protein

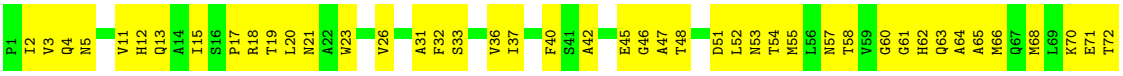
Chain 9Y:





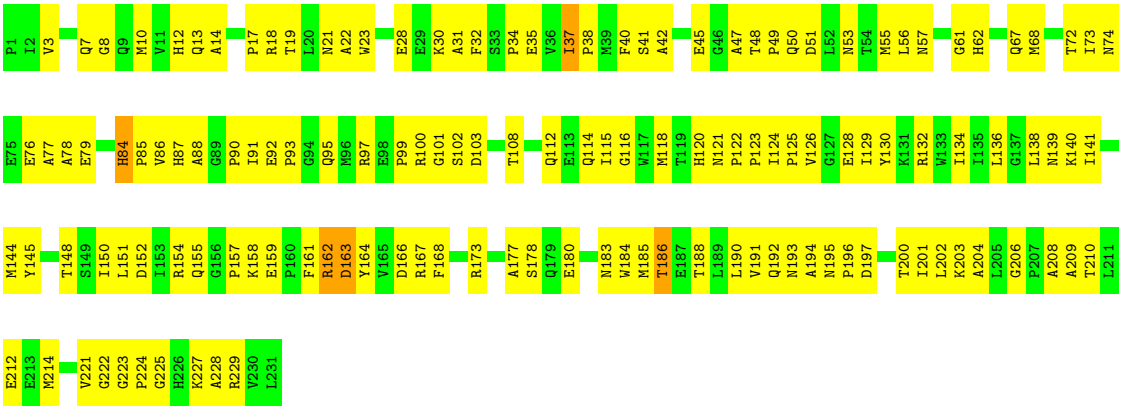
• Molecule 1: capsid protein

Chain 9Z:



• Molecule 1: capsid protein

Chain Z:

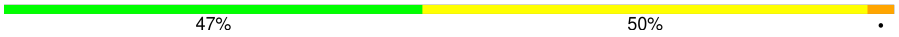


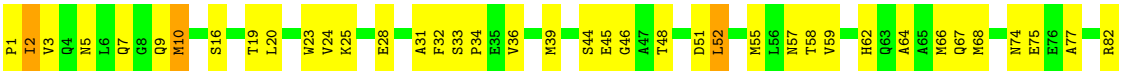
• Molecule 1: capsid protein

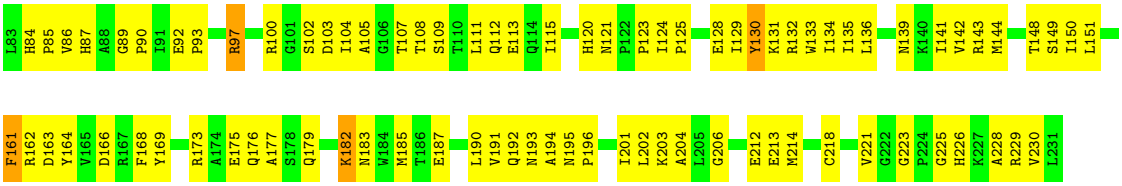
Chain a0:

• Molecule 1: capsid protein

Chain a1:

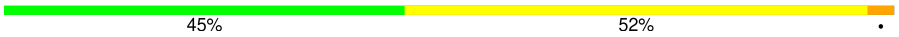


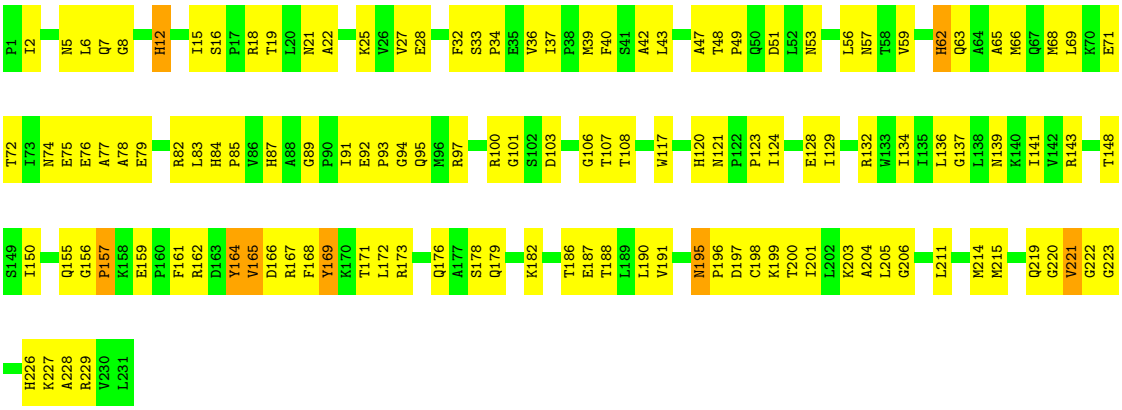




• Molecule 1: capsid protein

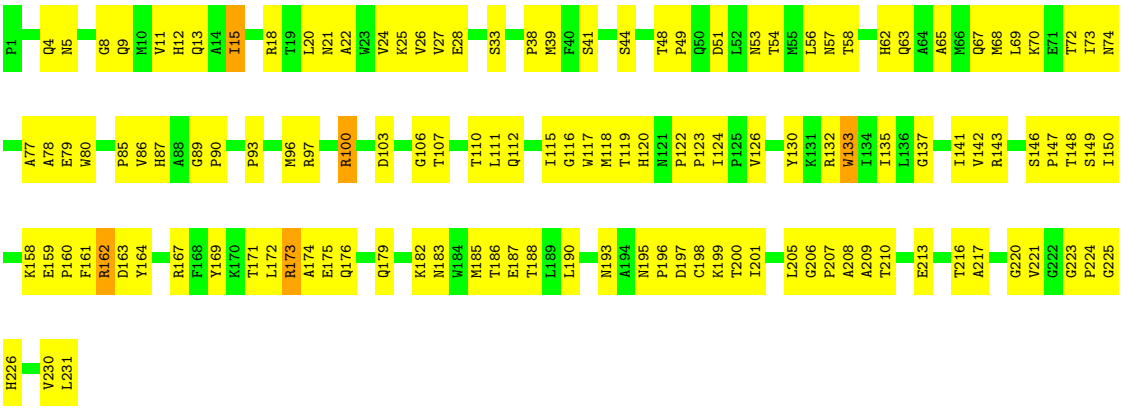
Chain a2:





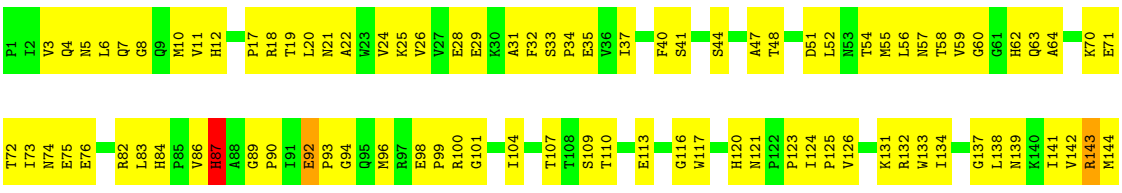
• Molecule 1: capsid protein

Chain a3:



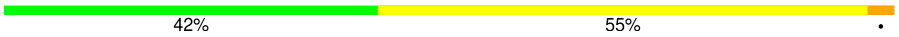
• Molecule 1: capsid protein

Chain a4:



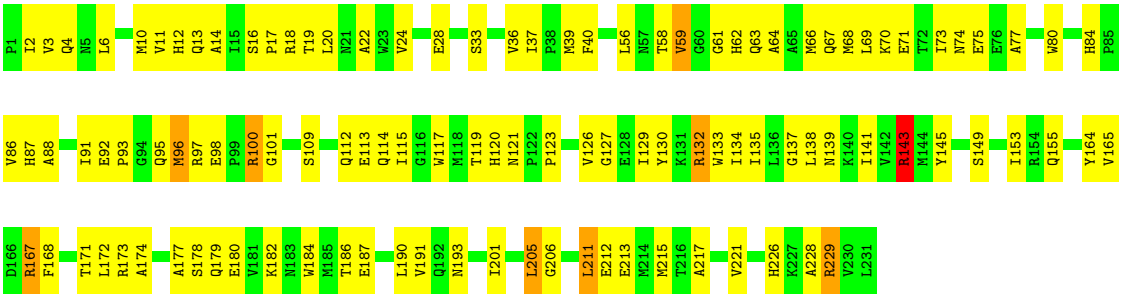
• Molecule 1: capsid protein

Chain a5:



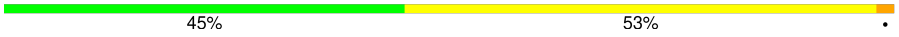
• Molecule 1: capsid protein

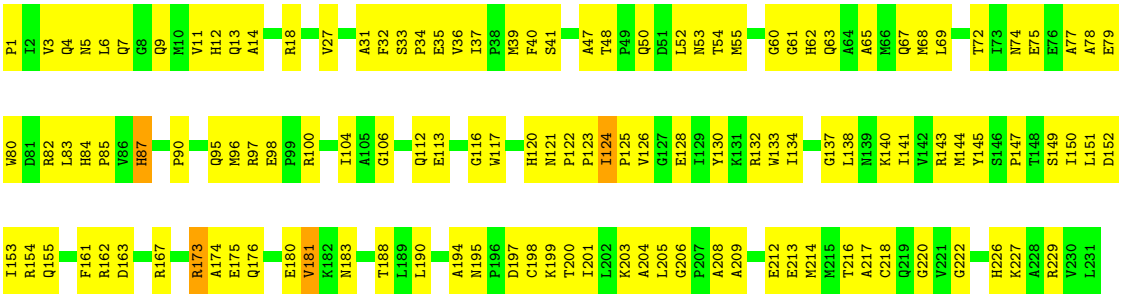
Chain a6:



• Molecule 1: capsid protein

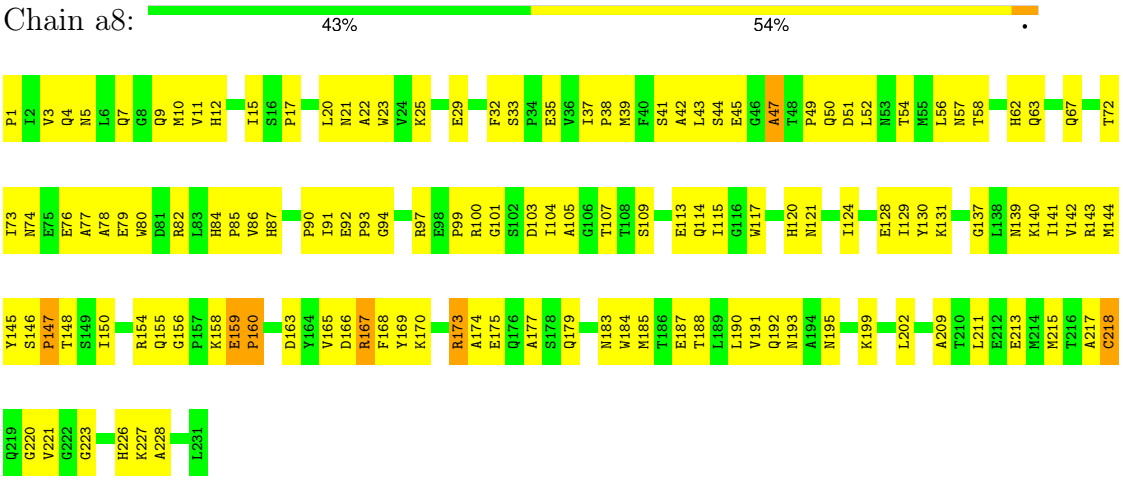
Chain a7:





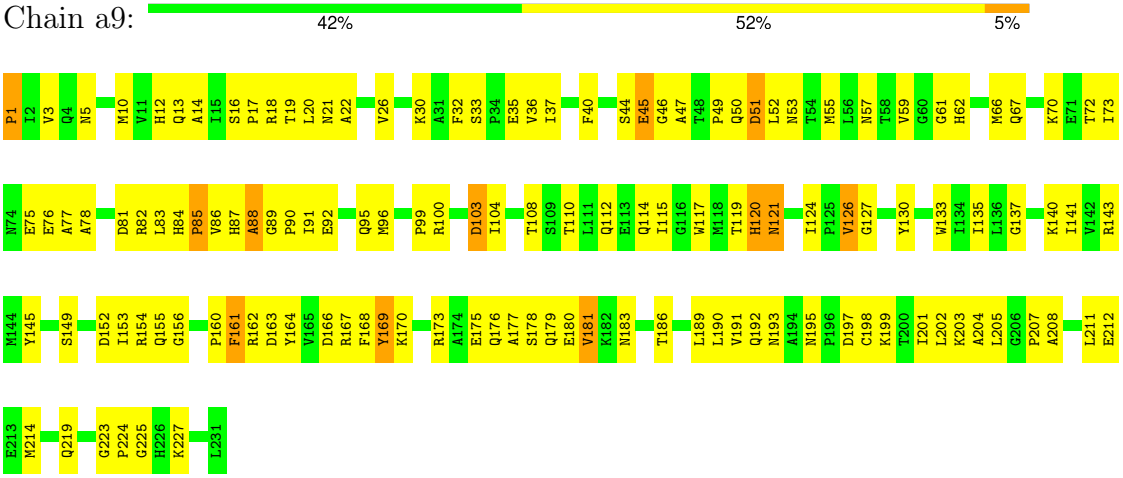
• Molecule 1: capsid protein

Chain a8:



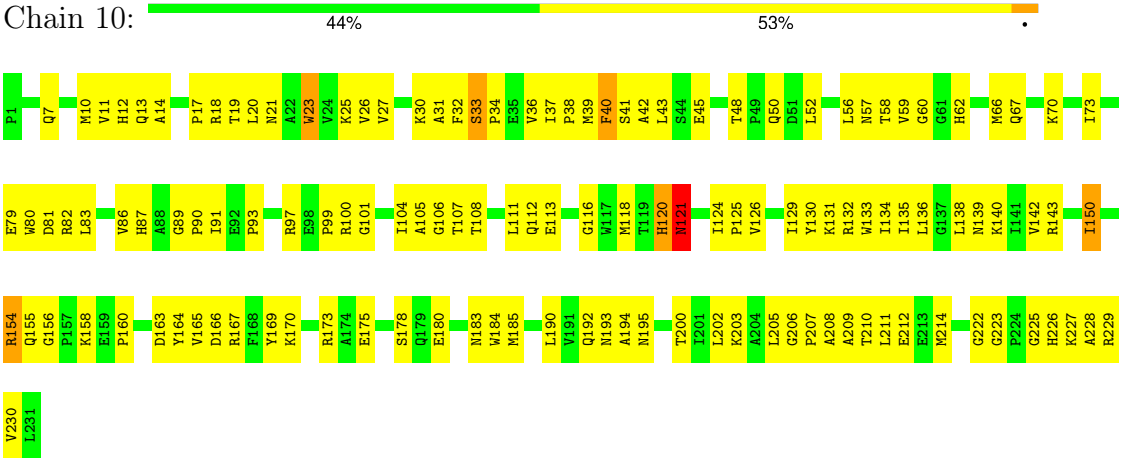
• Molecule 1: capsid protein

Chain a9:



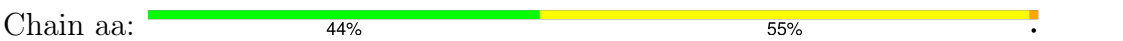
• Molecule 1: capsid protein

Chain 10:



• Molecule 1: capsid protein

Chain aa:

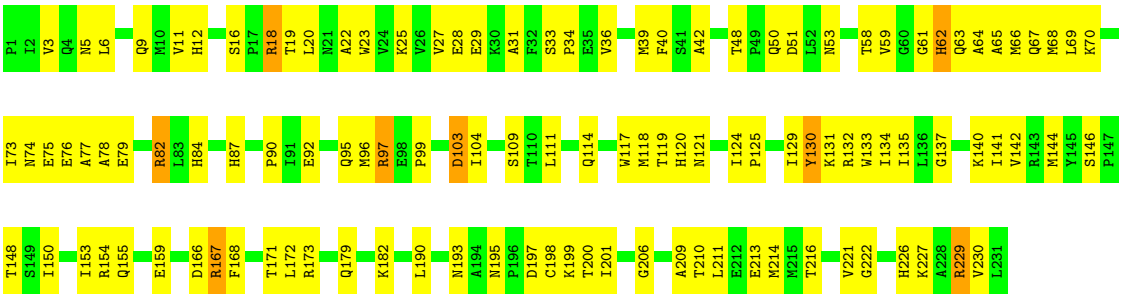


• Molecule 1: capsid protein

Chain ab:

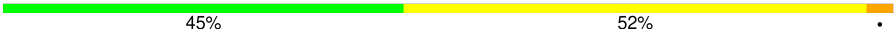
• Molecule 1: capsid protein

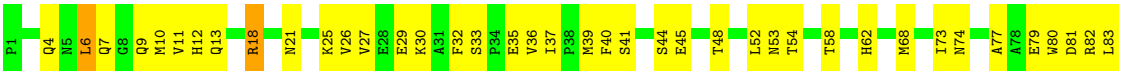
Chain ac:

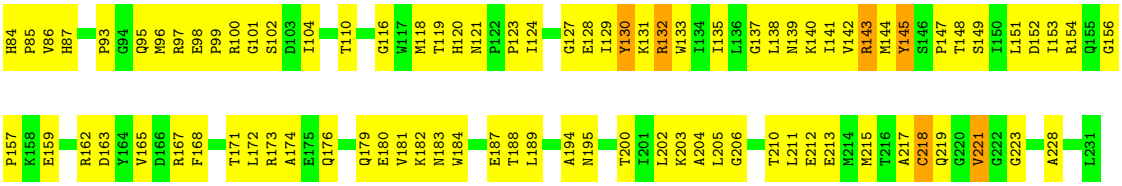


• Molecule 1: capsid protein

Chain ad:

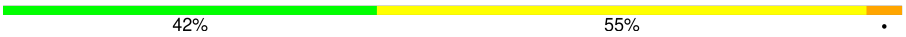


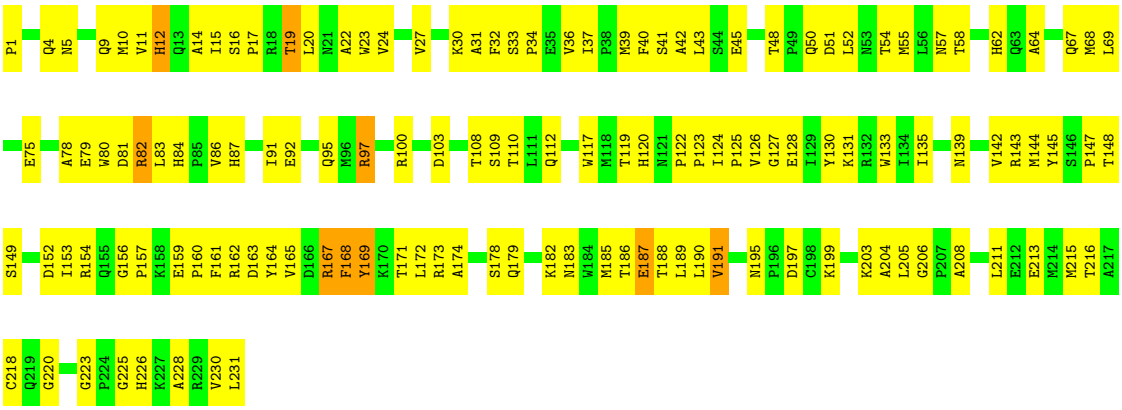




• Molecule 1: capsid protein

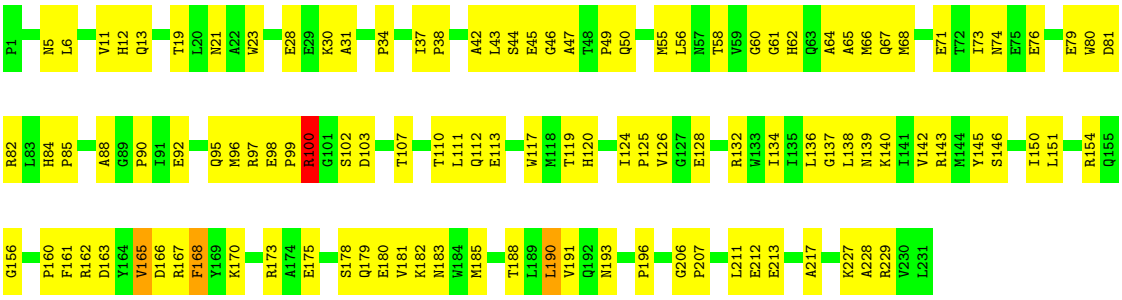
Chain ae:





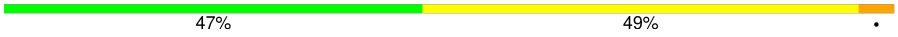
• Molecule 1: capsid protein

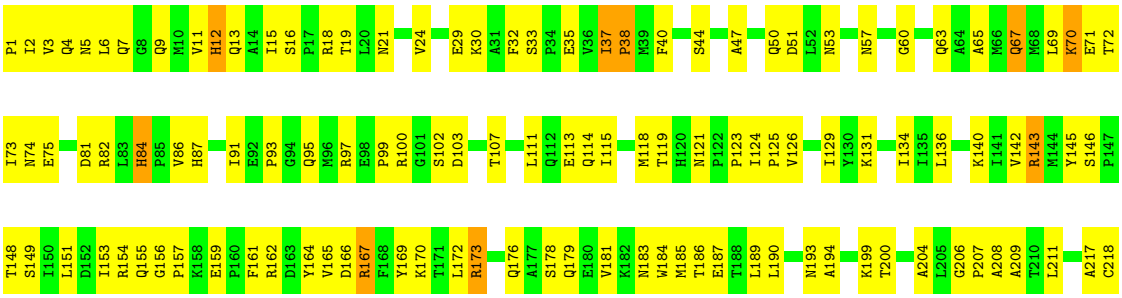
Chain af:

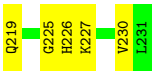


• Molecule 1: capsid protein

Chain ag:

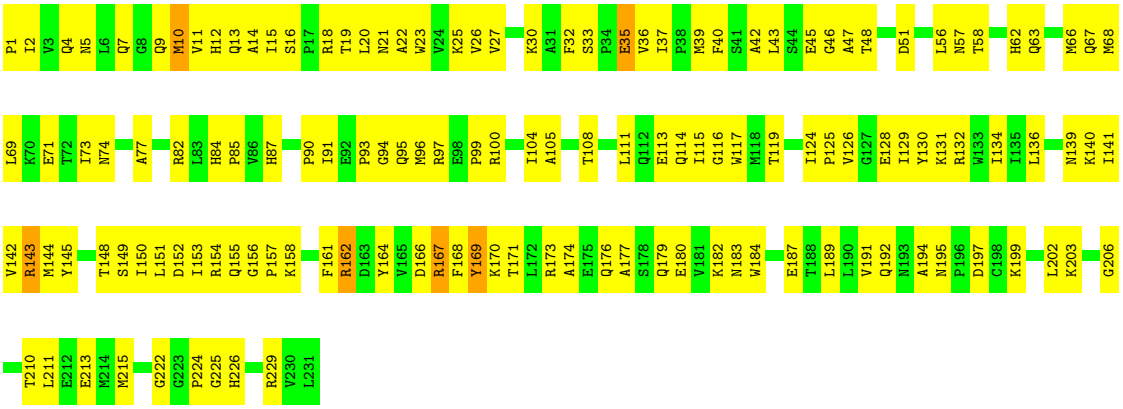






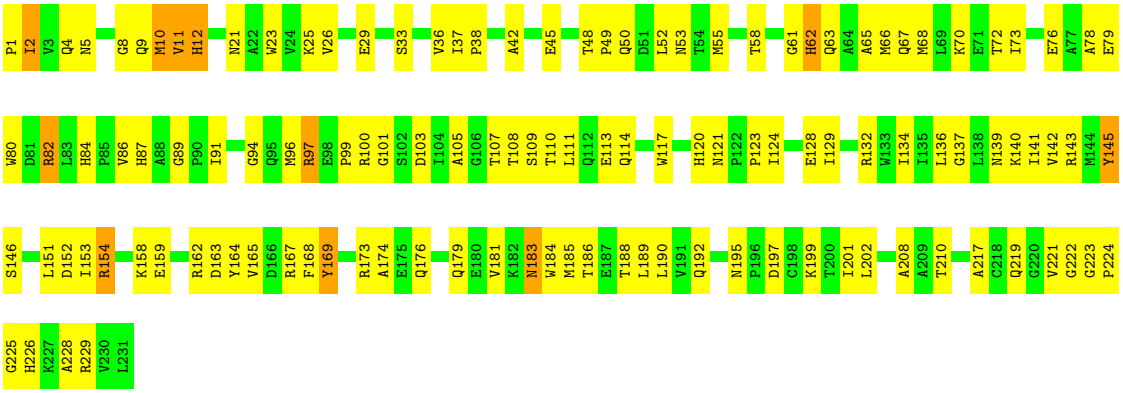
• Molecule 1: capsid protein

Chain ah:



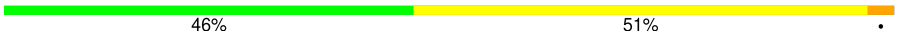
• Molecule 1: capsid protein

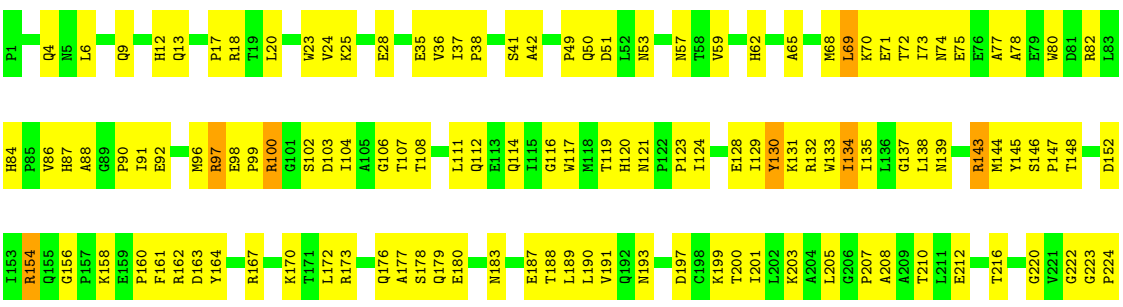
Chain ai:



• Molecule 1: capsid protein

Chain aj:



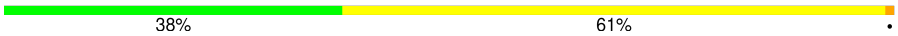


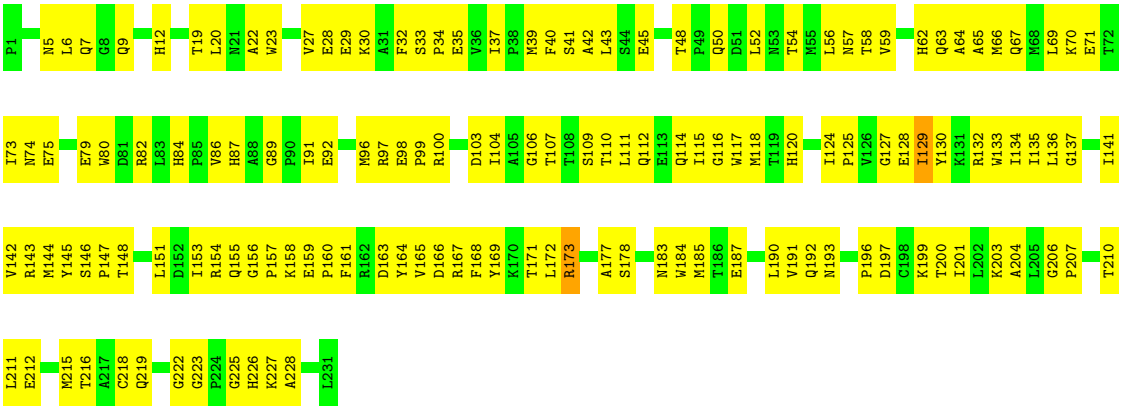
• Molecule 1: capsid protein

Chain 11:

• Molecule 1: capsid protein

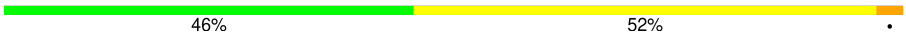
Chain ak:

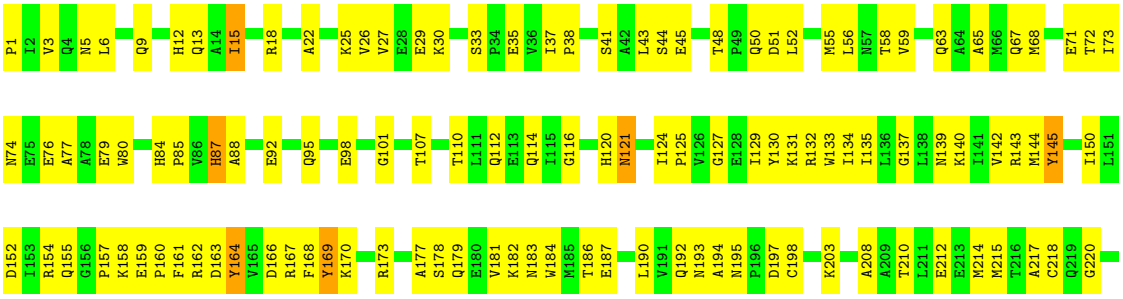


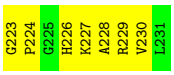


• Molecule 1: capsid protein

Chain al:

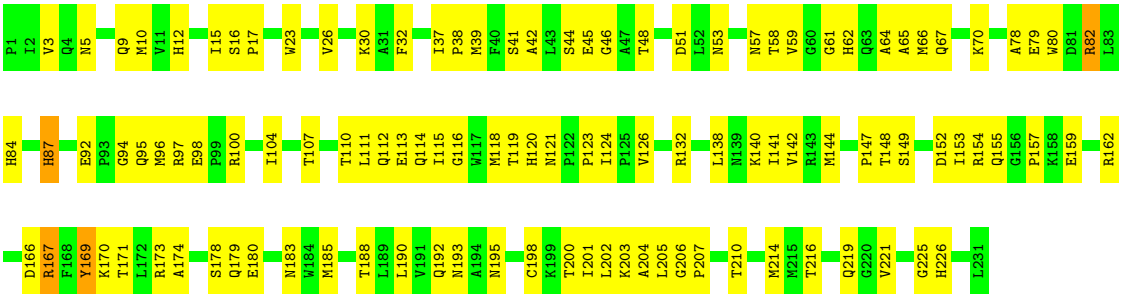






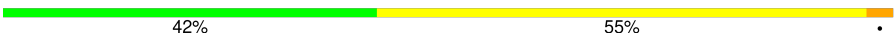
• Molecule 1: capsid protein

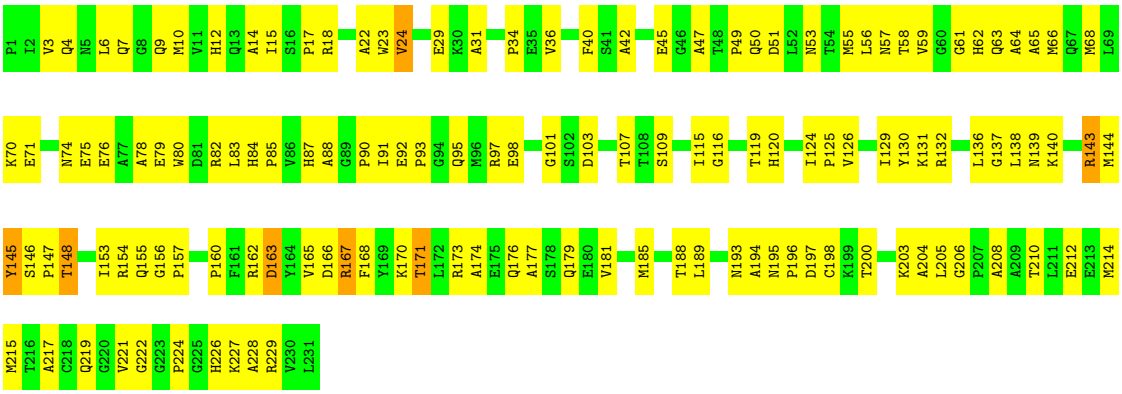
Chain am:



• Molecule 1: capsid protein

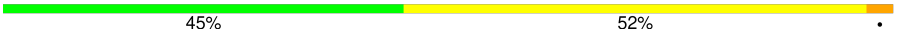
Chain an:

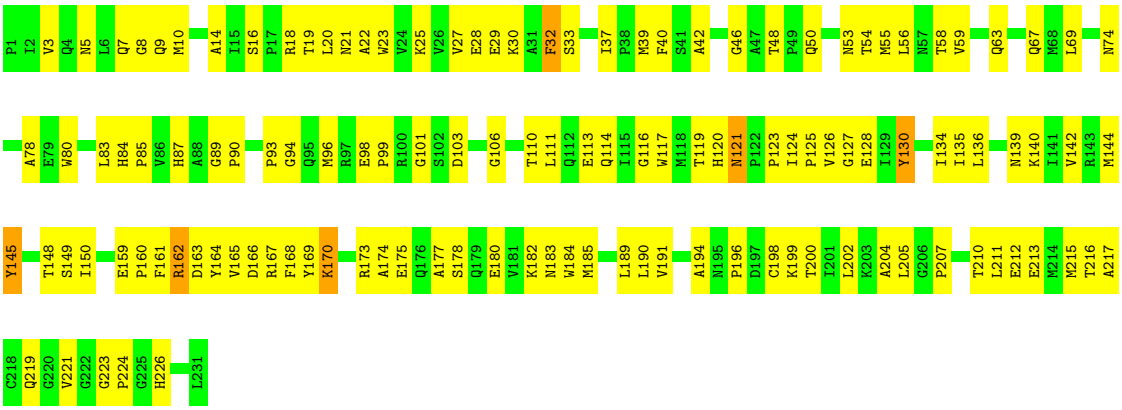




• Molecule 1: capsid protein

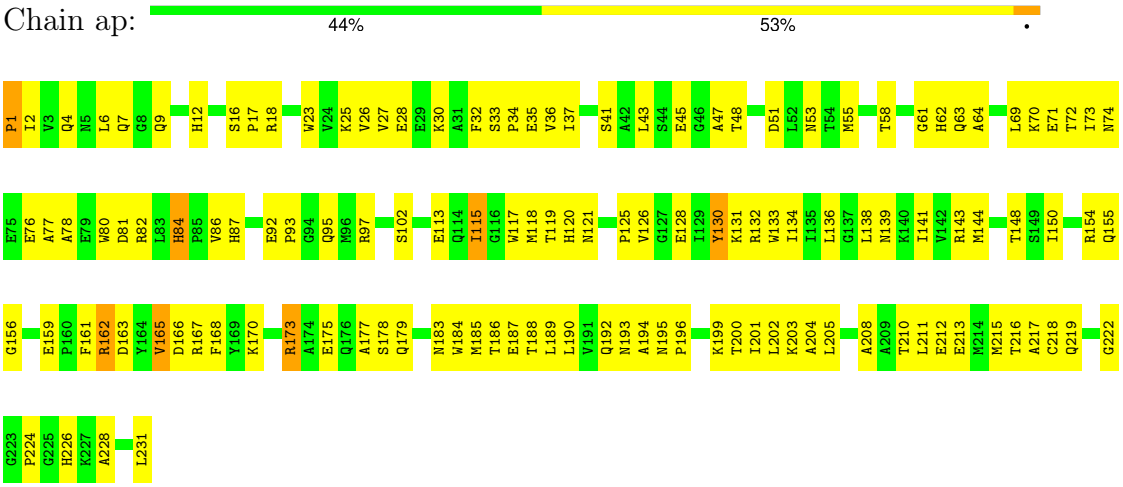
Chain ao:





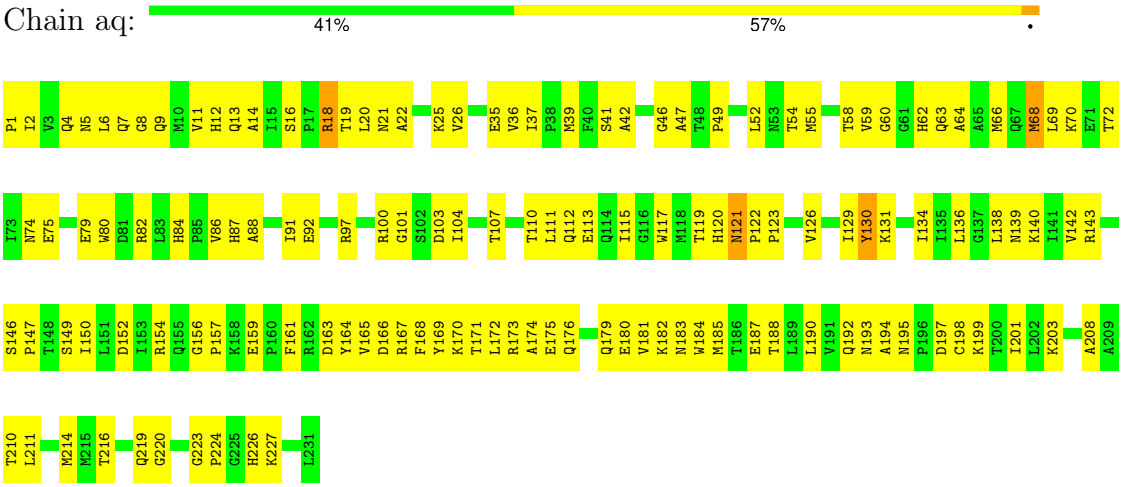
• Molecule 1: capsid protein

Chain ap:



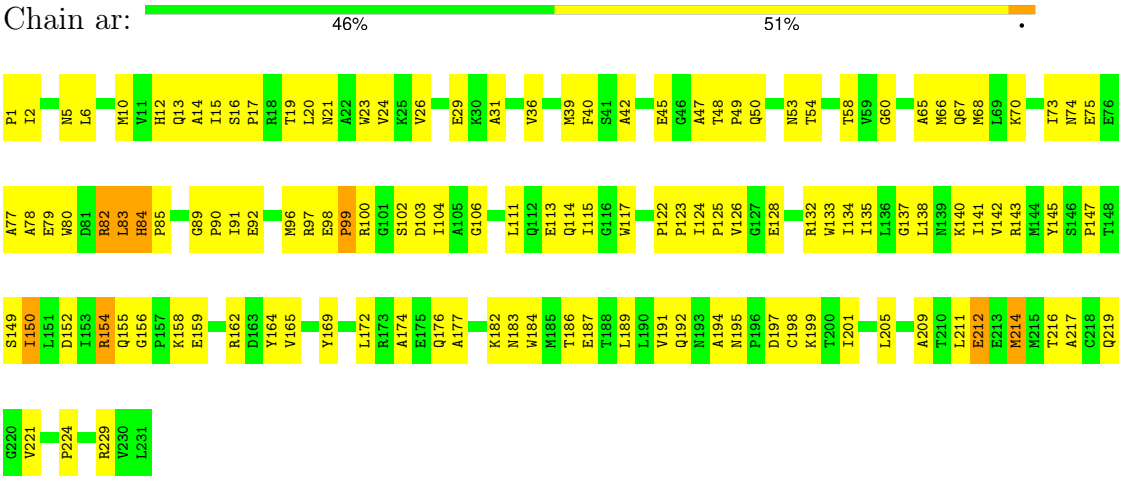
• Molecule 1: capsid protein

Chain aq:



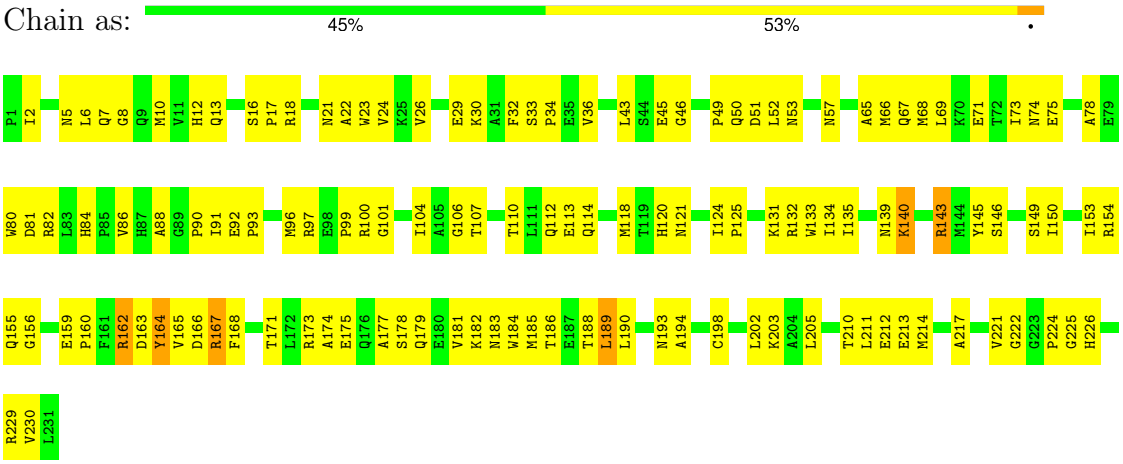
• Molecule 1: capsid protein

Chain ar:



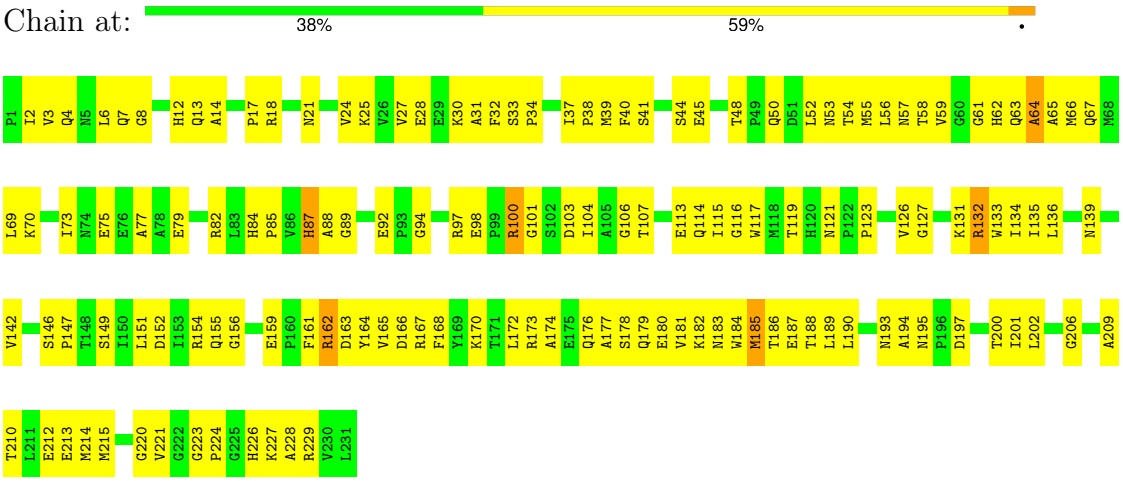
• Molecule 1: capsid protein

Chain as:



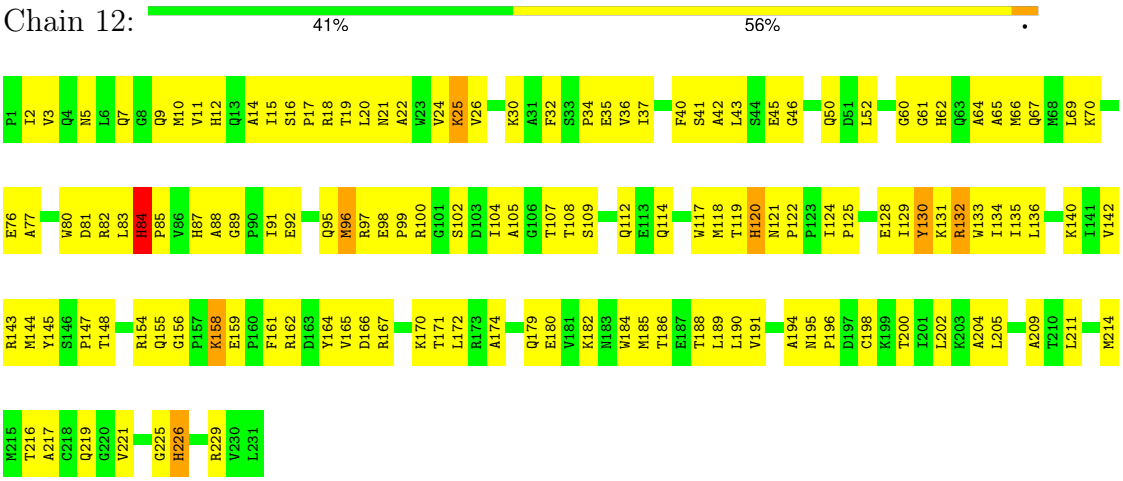
• Molecule 1: capsid protein

Chain at:



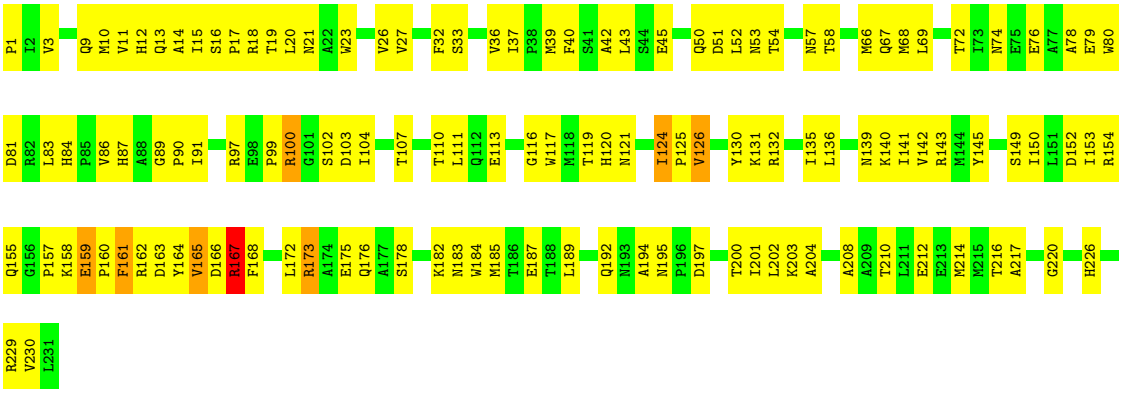
• Molecule 1: capsid protein

Chain 12:



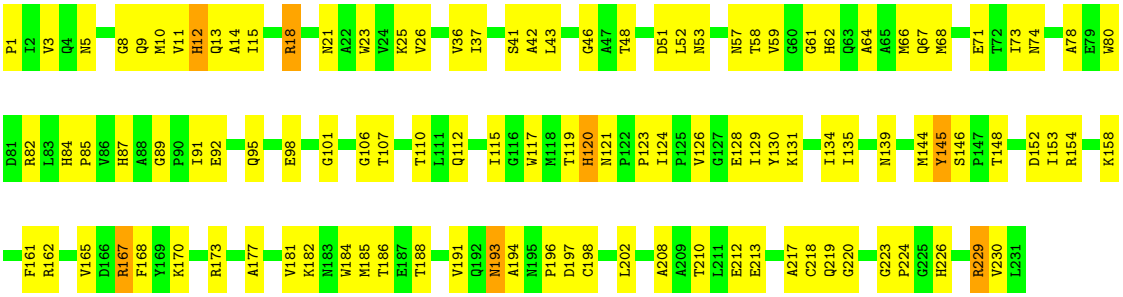
• Molecule 1: capsid protein

Chain au:



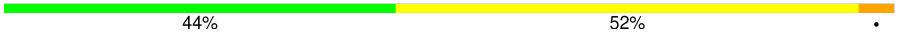
• Molecule 1: capsid protein

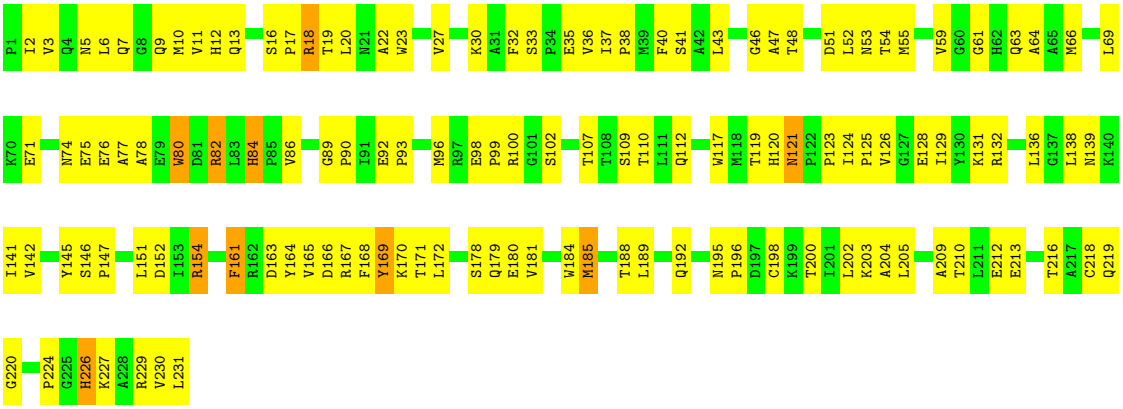
Chain av:



• Molecule 1: capsid protein

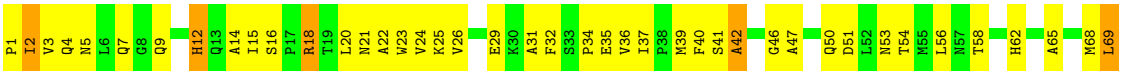
Chain aw:

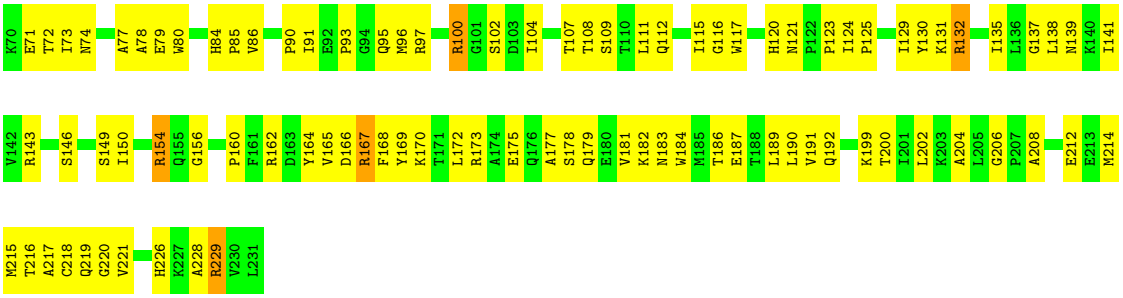




• Molecule 1: capsid protein

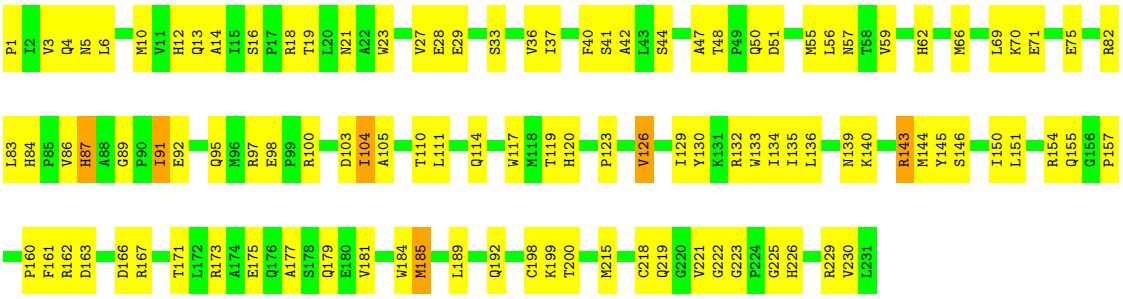
Chain ax:





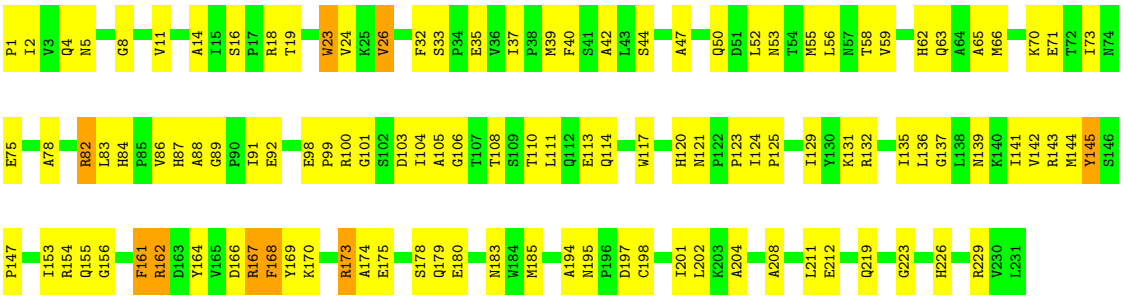
• Molecule 1: capsid protein

Chain ay:



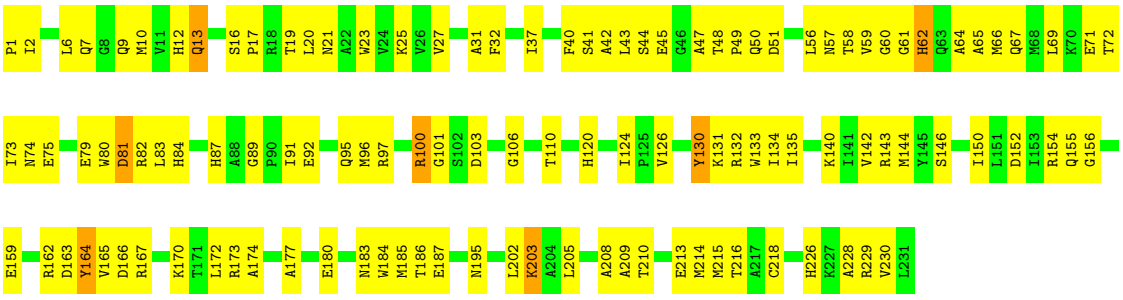
• Molecule 1: capsid protein

Chain az:



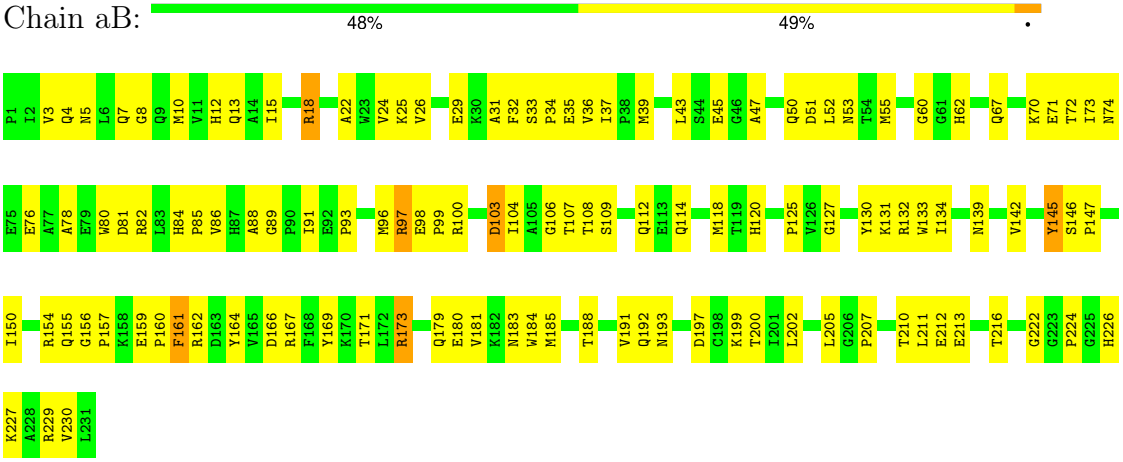
• Molecule 1: capsid protein

Chain aA:



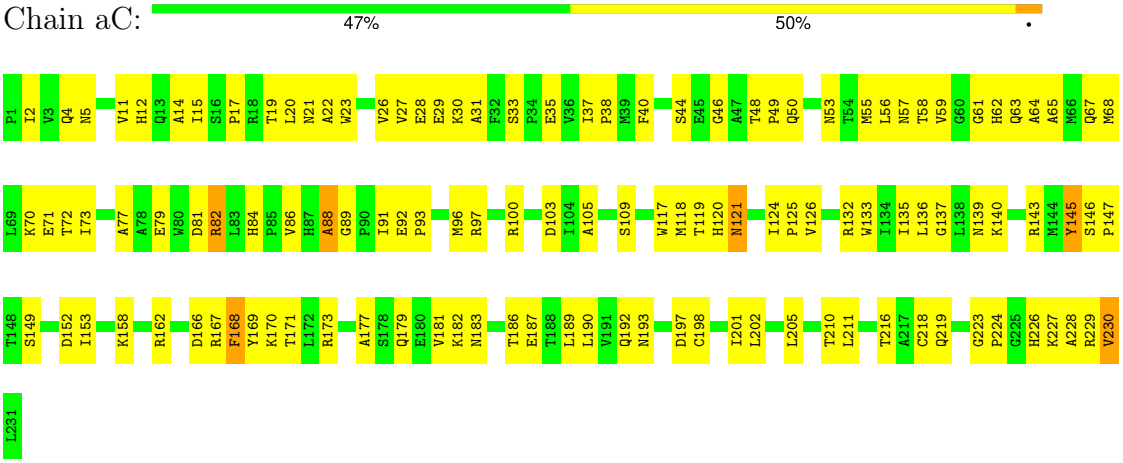
• Molecule 1: capsid protein

Chain aB:



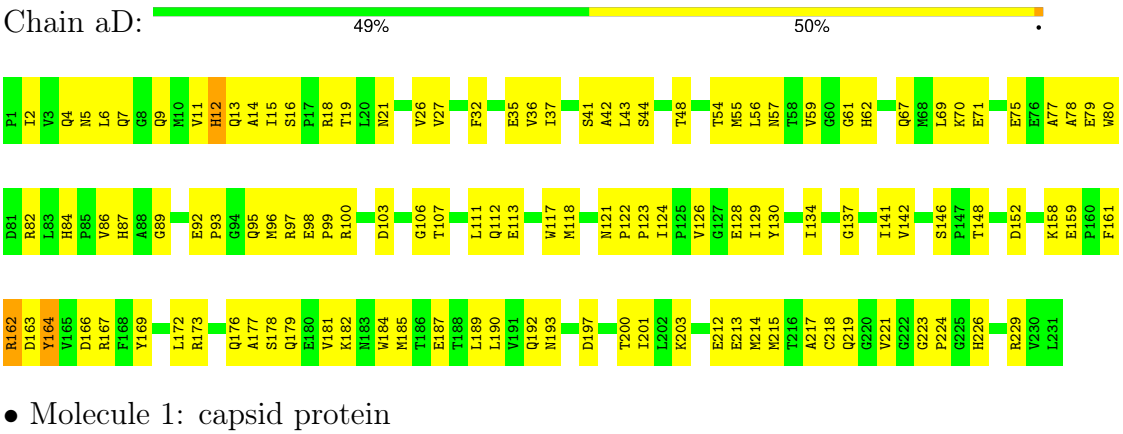
• Molecule 1: capsid protein

Chain aC:



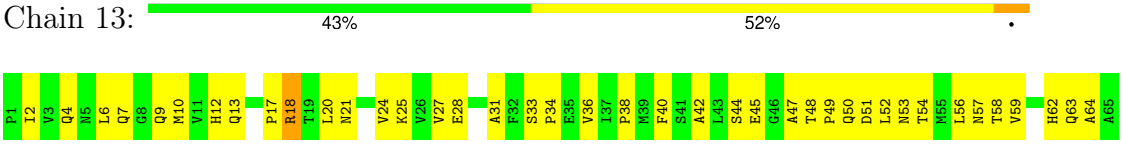
• Molecule 1: capsid protein

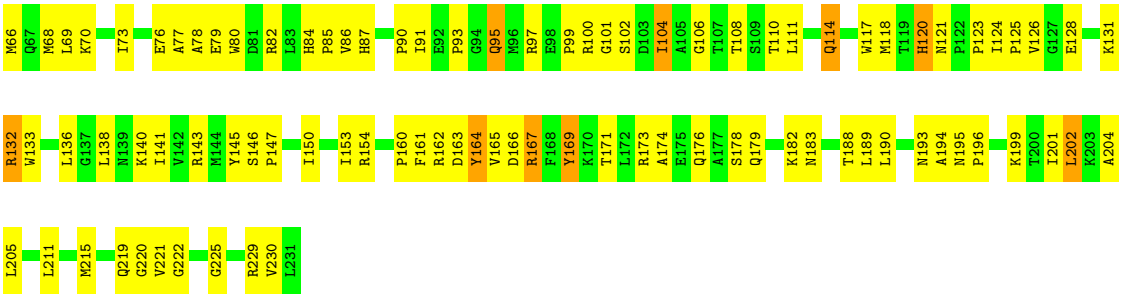
Chain aD:



• Molecule 1: capsid protein

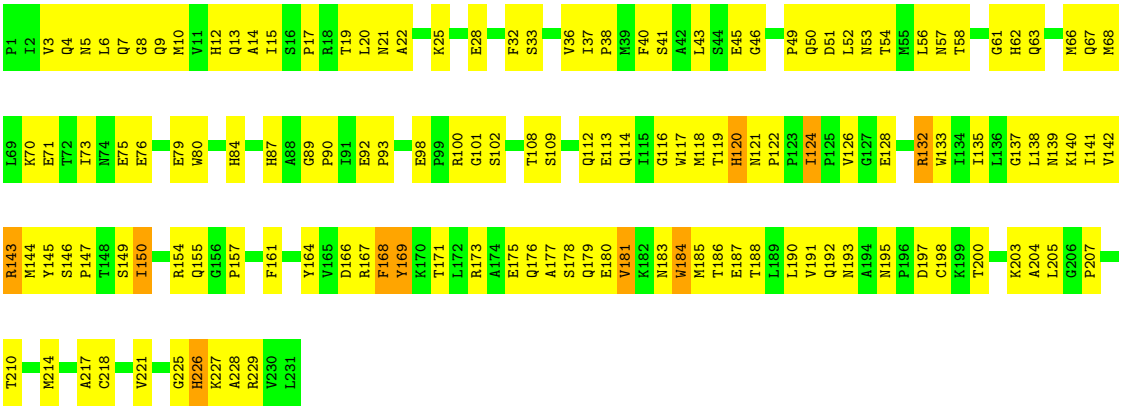
Chain 13:





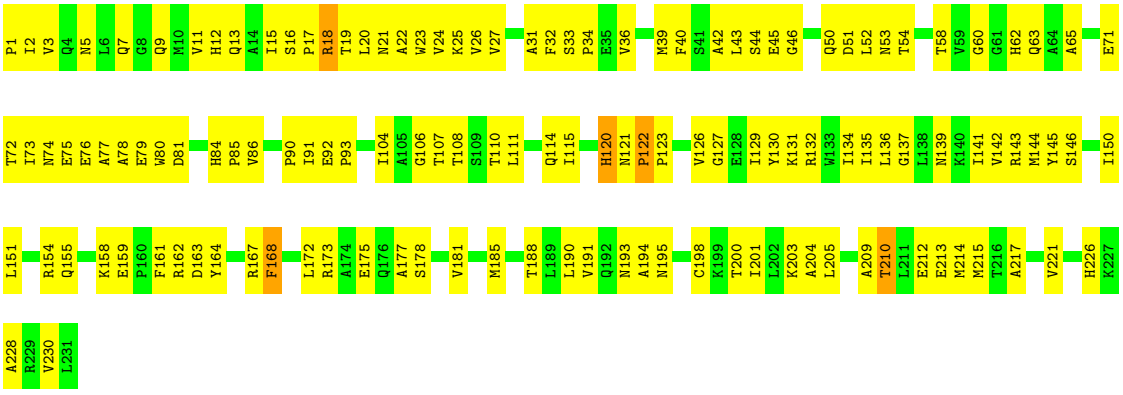
• Molecule 1: capsid protein

Chain aE:



• Molecule 1: capsid protein

Chain aF:



• Molecule 1: capsid protein

Chain aG:

• Molecule 1: capsid protein

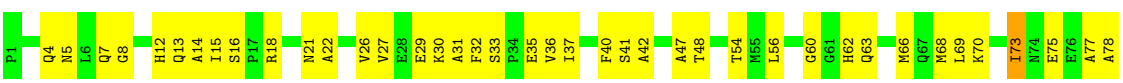
Chain aH:

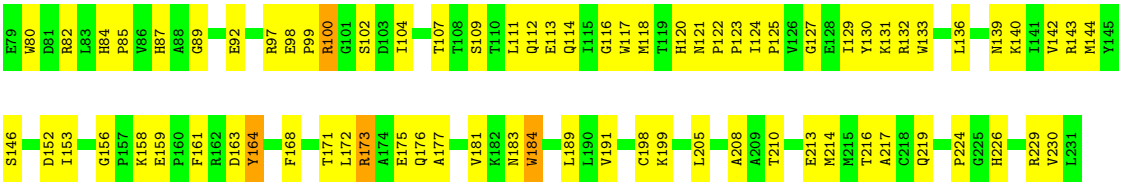
• Molecule 1: capsid protein

Chain aI:

• Molecule 1: capsid protein

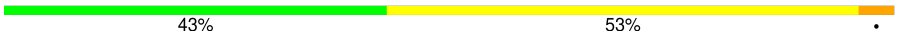
Chain aJ:

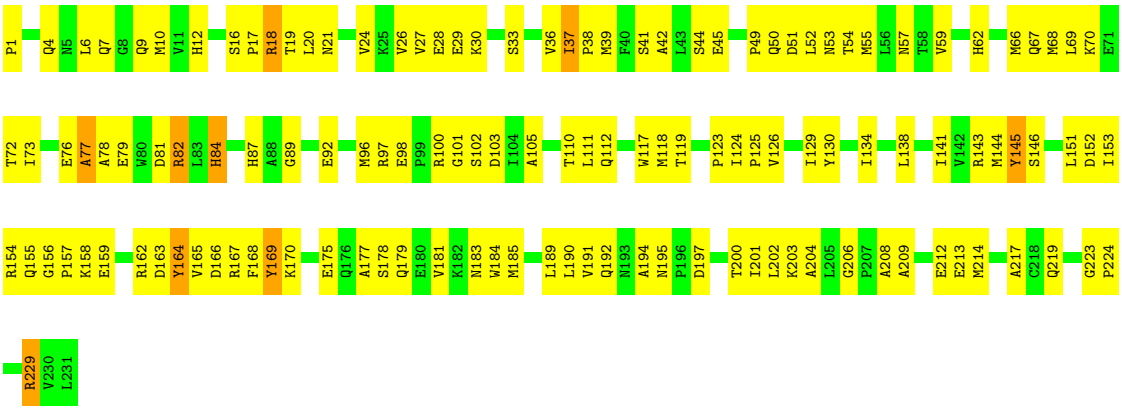




• Molecule 1: capsid protein

Chain aK:



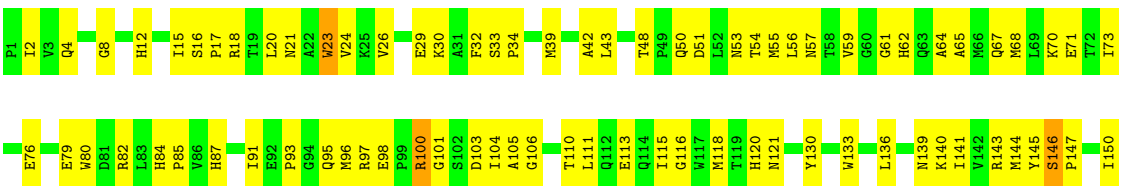


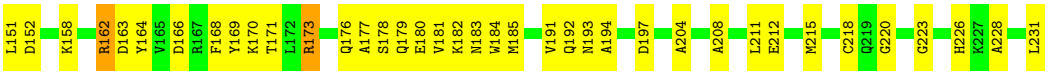
• Molecule 1: capsid protein

Chain aL:

• Molecule 1: capsid protein

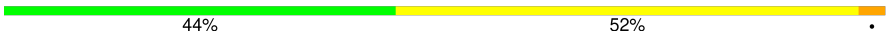
Chain aM:

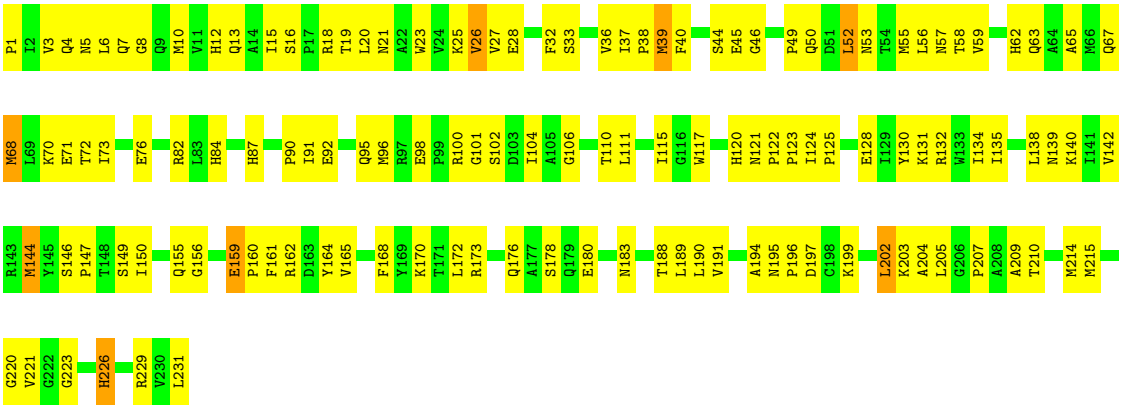




• Molecule 1: capsid protein

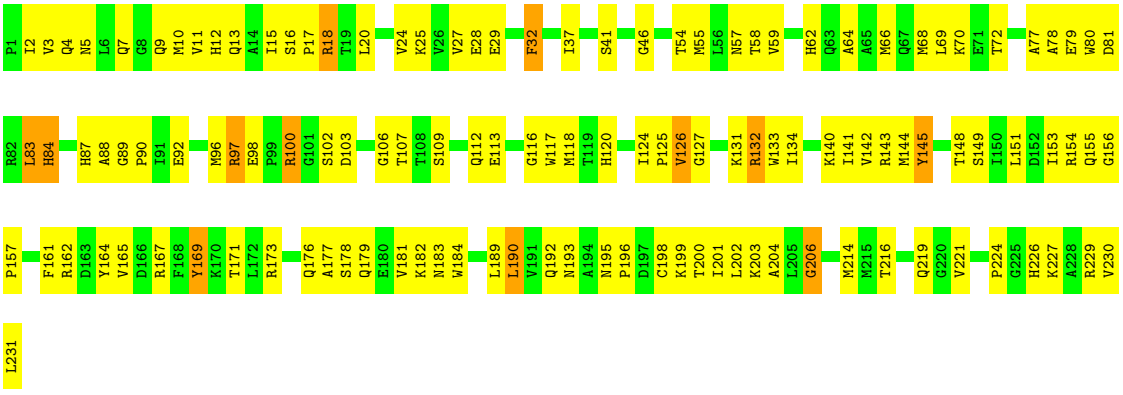
Chain aN:





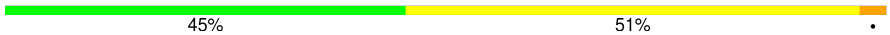
• Molecule 1: capsid protein

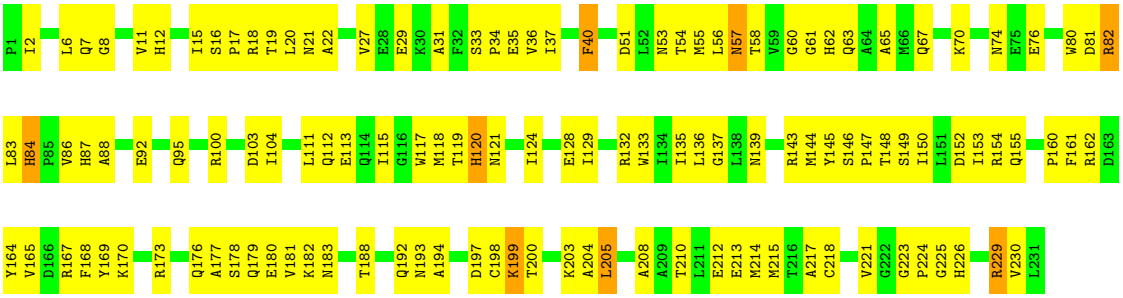
Chain 14:



• Molecule 1: capsid protein

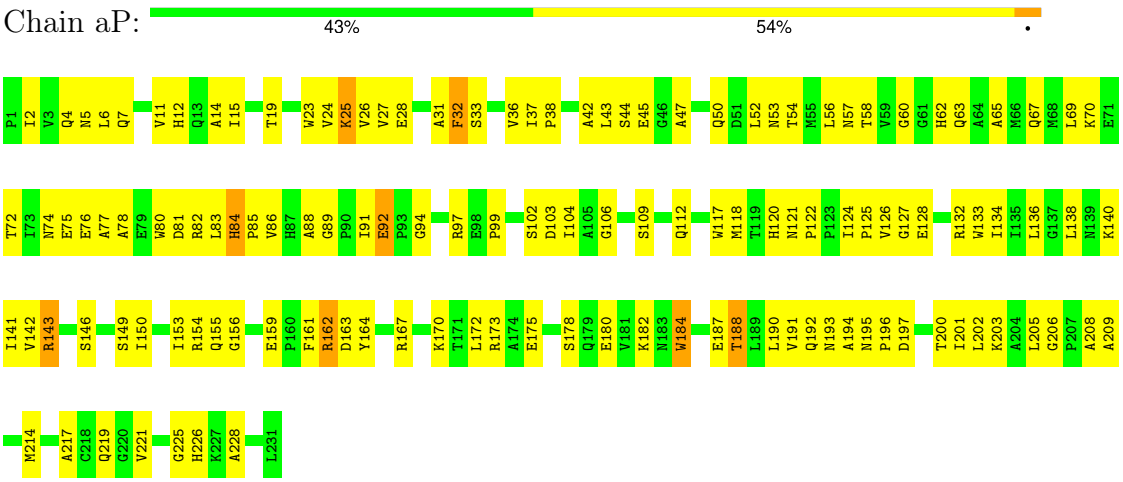
Chain aO:





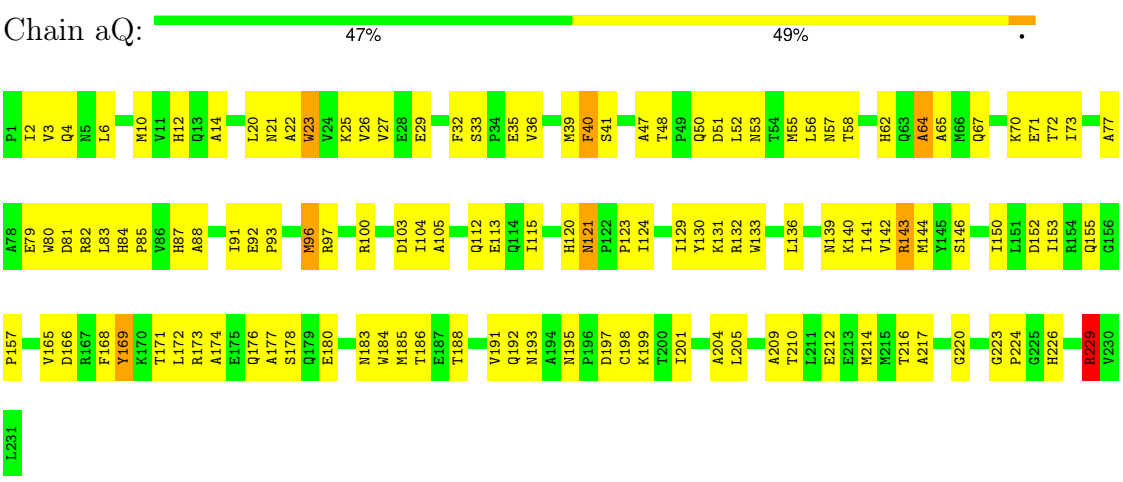
• Molecule 1: capsid protein

Chain aP:



• Molecule 1: capsid protein

Chain aQ:

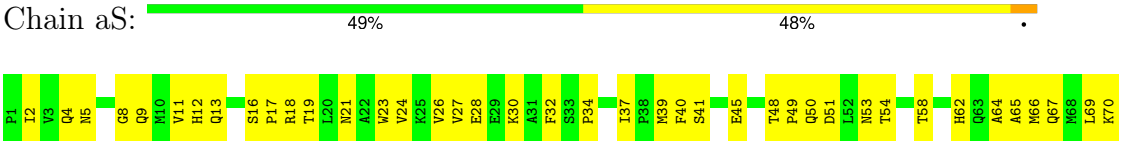


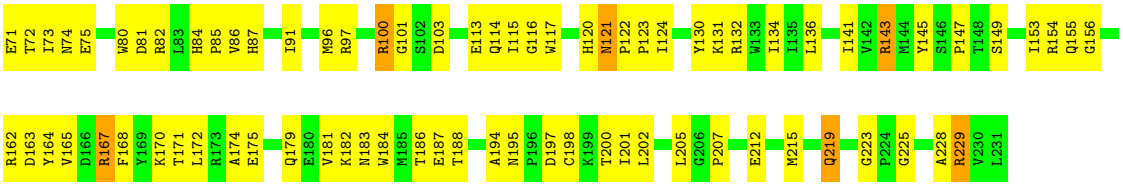
• Molecule 1: capsid protein

Chain aR:

• Molecule 1: capsid protein

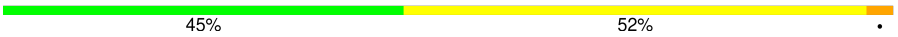
Chain aS:

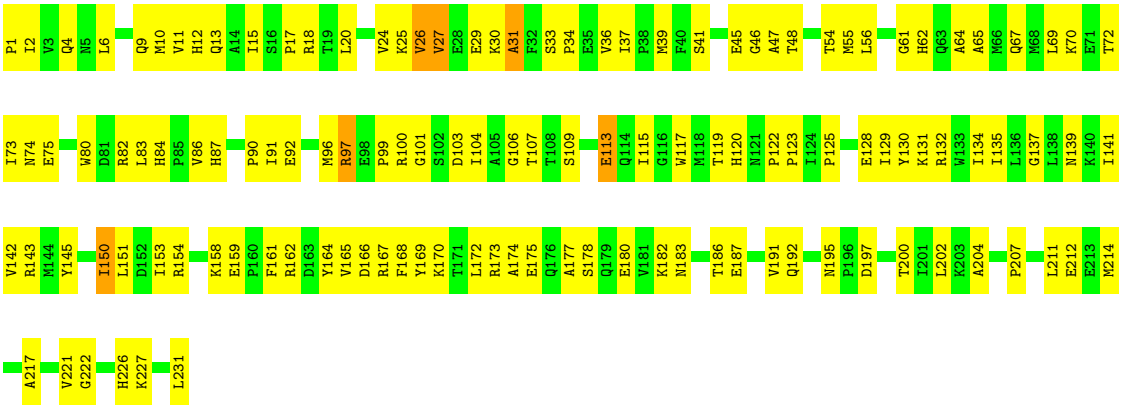




• Molecule 1: capsid protein

Chain aT:



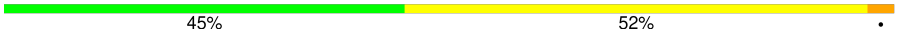


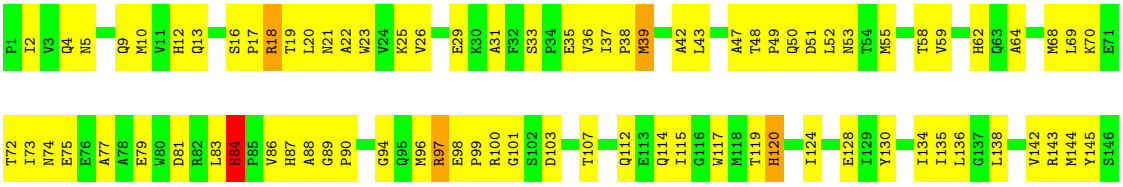
• Molecule 1: capsid protein

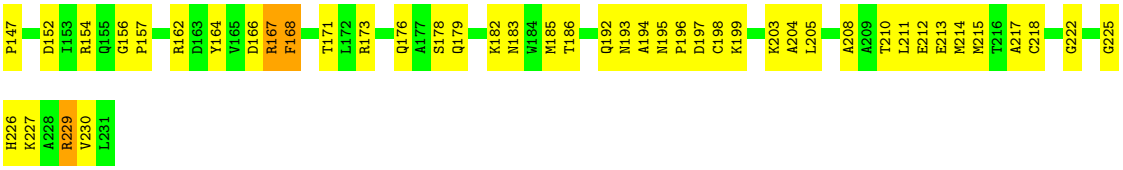
Chain aU:

• Molecule 1: capsid protein

Chain aV:

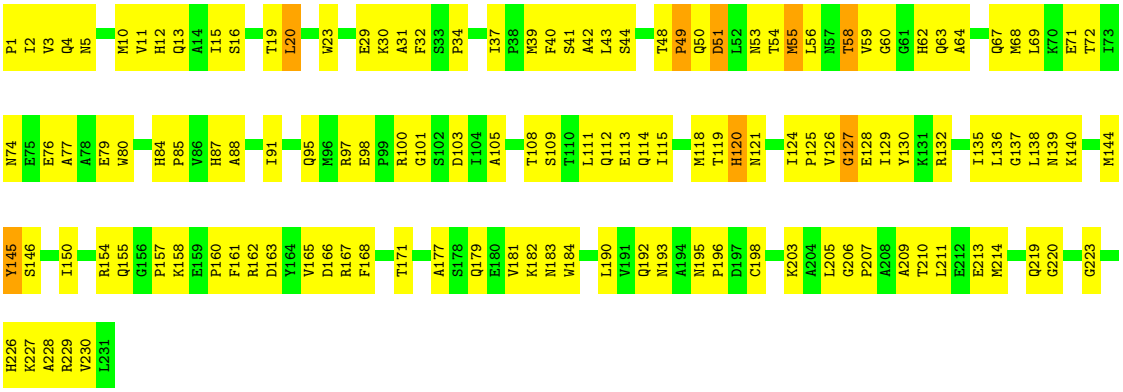






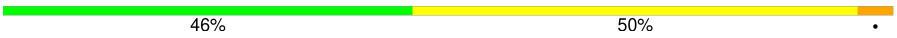
• Molecule 1: capsid protein

Chain aW:



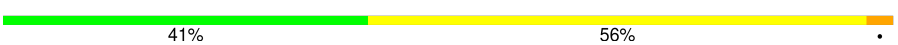
• Molecule 1: capsid protein

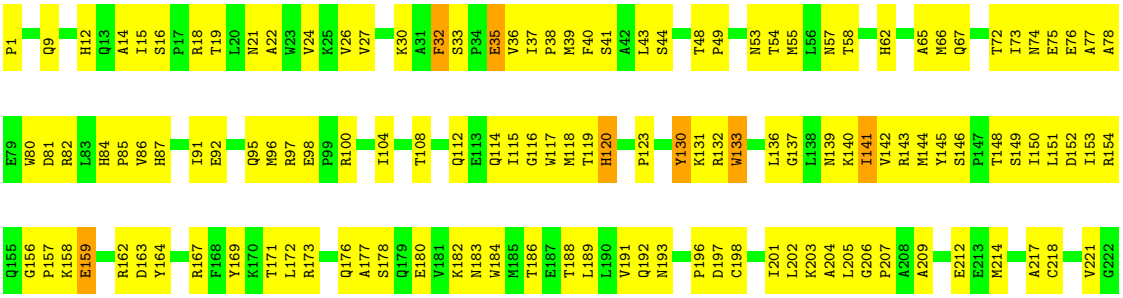
Chain aX:



• Molecule 1: capsid protein

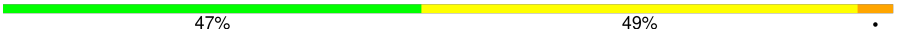
Chain 15:

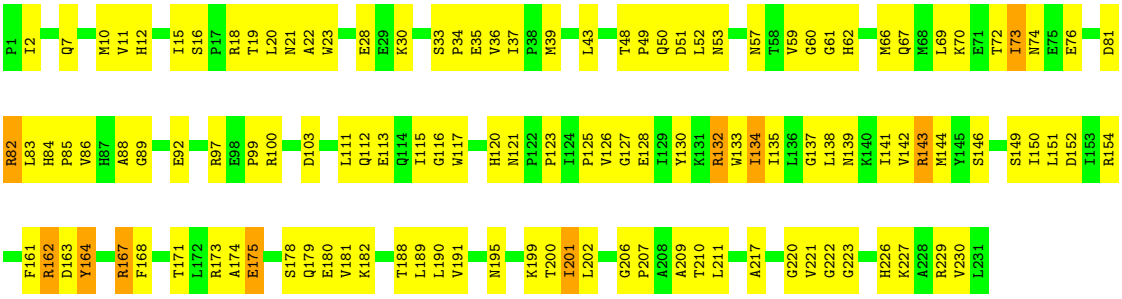




• Molecule 1: capsid protein

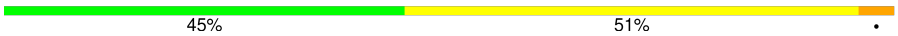
Chain aY:

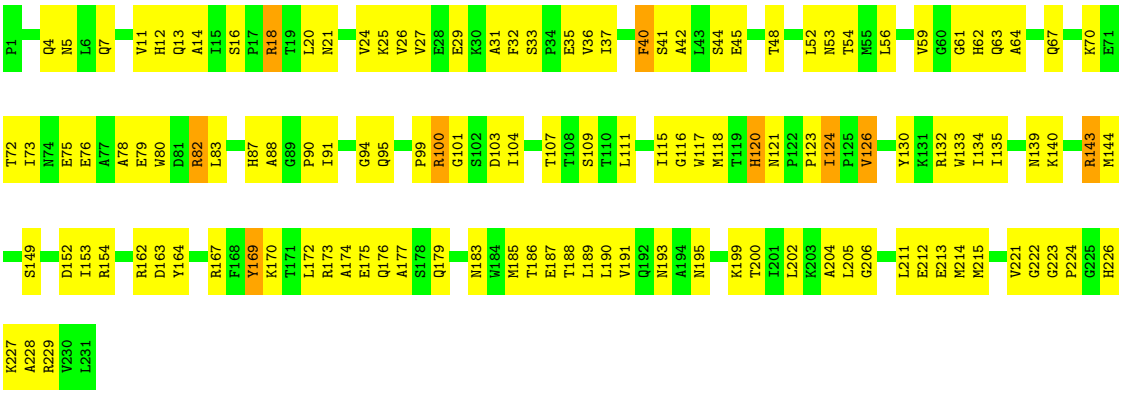




• Molecule 1: capsid protein

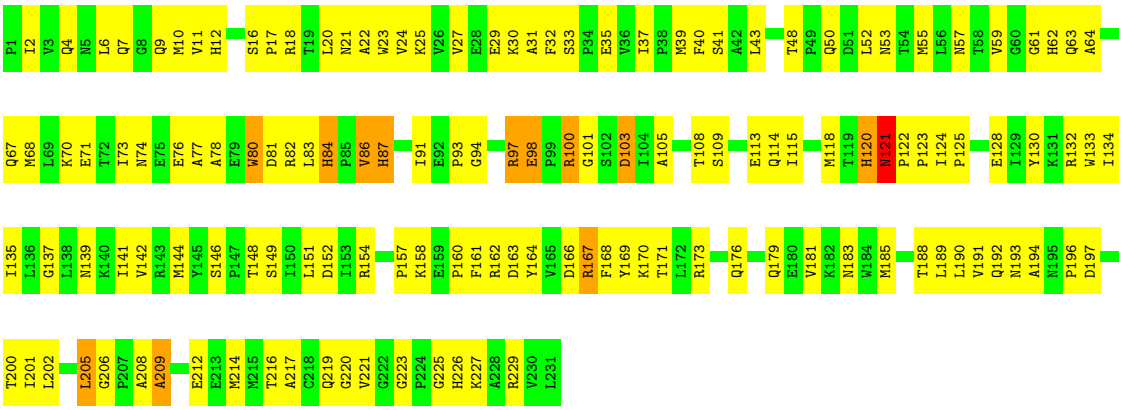
Chain aZ:





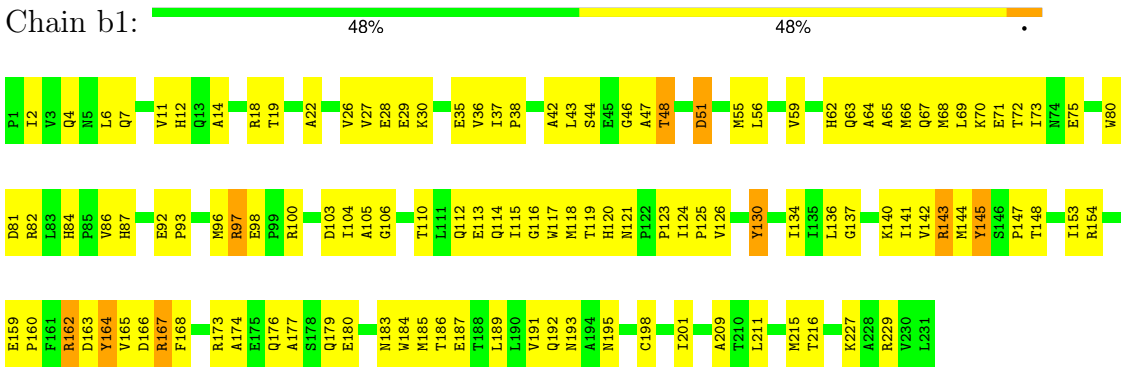
• Molecule 1: capsid protein

Chain b0:



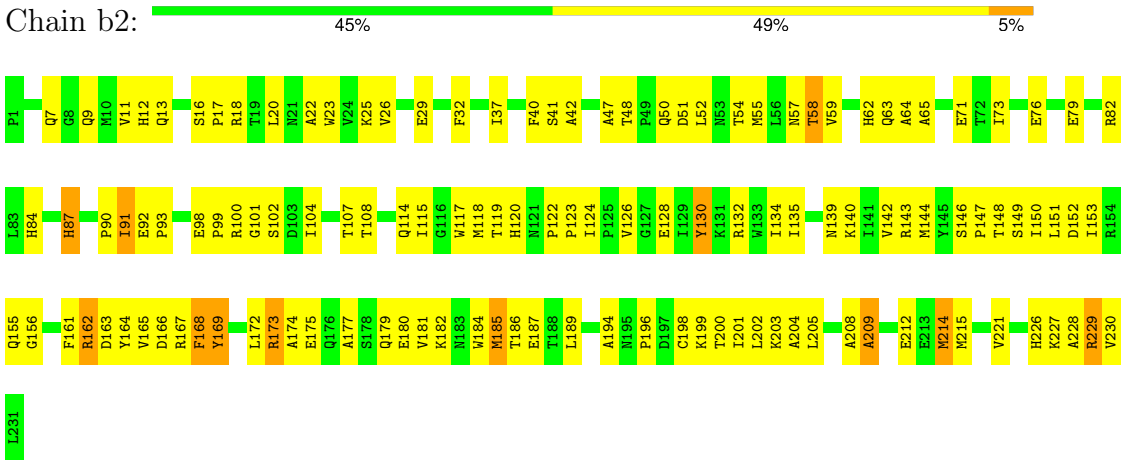
• Molecule 1: capsid protein

Chain b1:



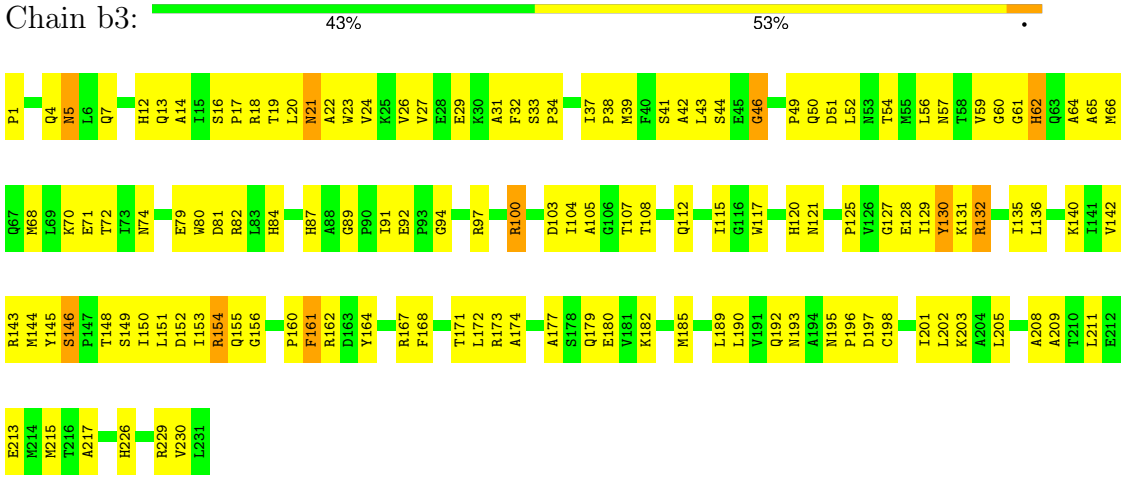
• Molecule 1: capsid protein

Chain b2:



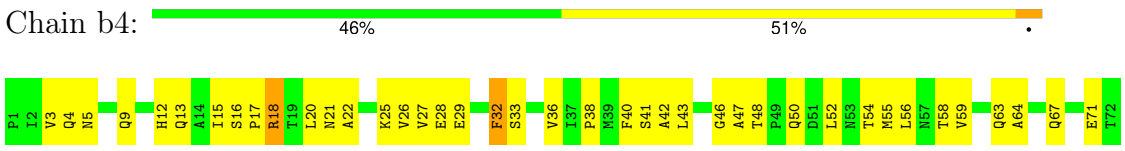
• Molecule 1: capsid protein

Chain b3:



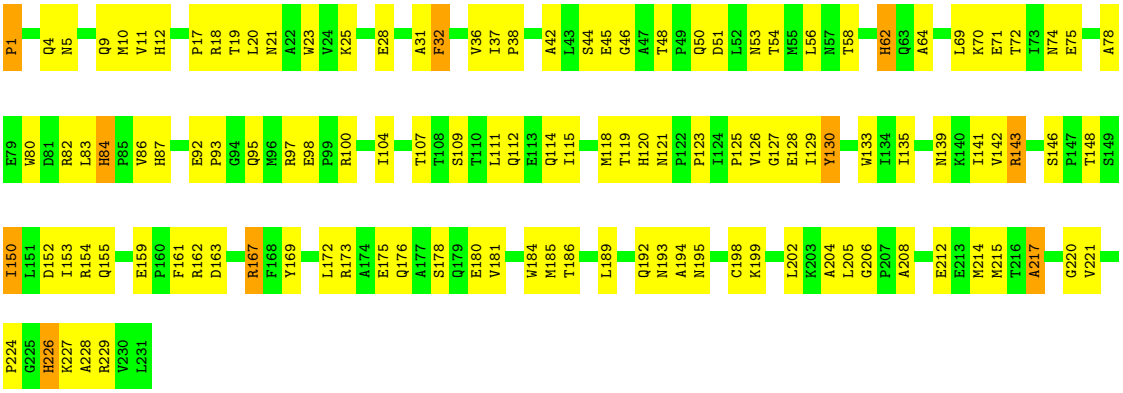
• Molecule 1: capsid protein

Chain b4:



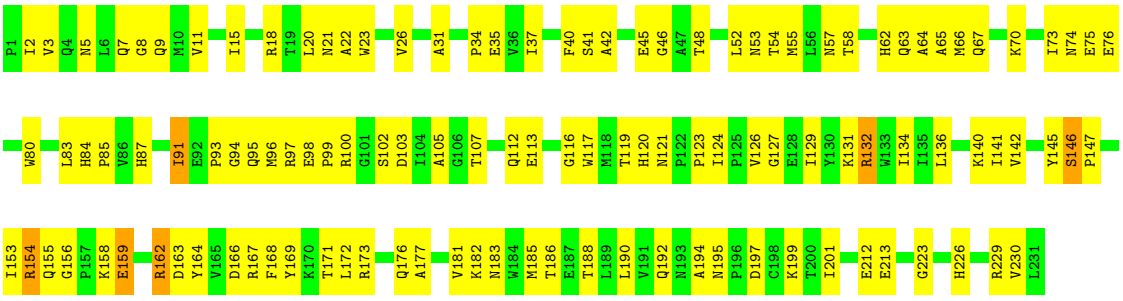
• Molecule 1: capsid protein

Chain b5:



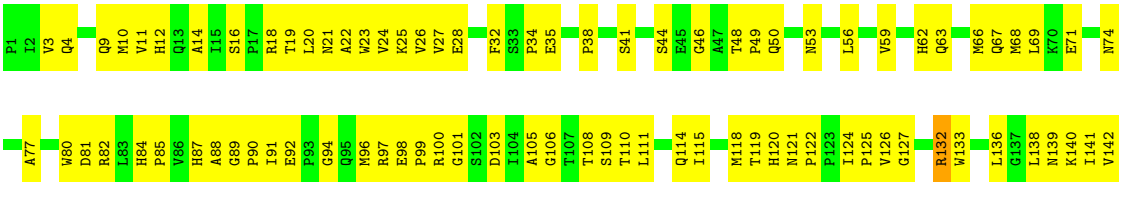
• Molecule 1: capsid protein

Chain b6:



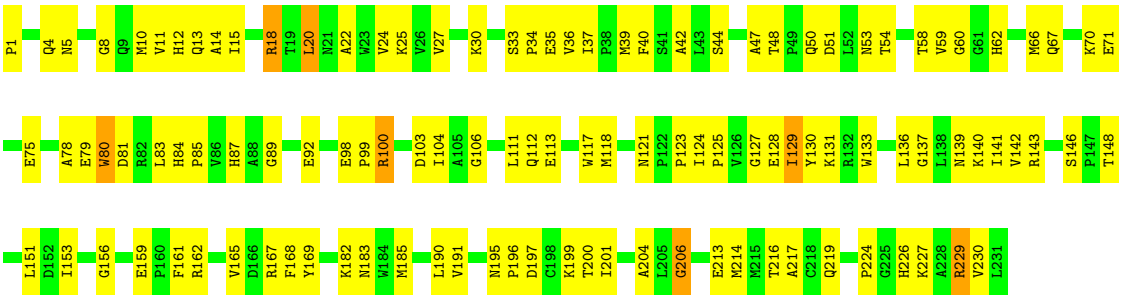
• Molecule 1: capsid protein

Chain b7:



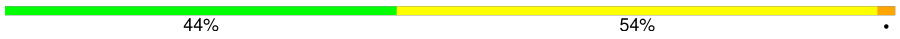
• Molecule 1: capsid protein

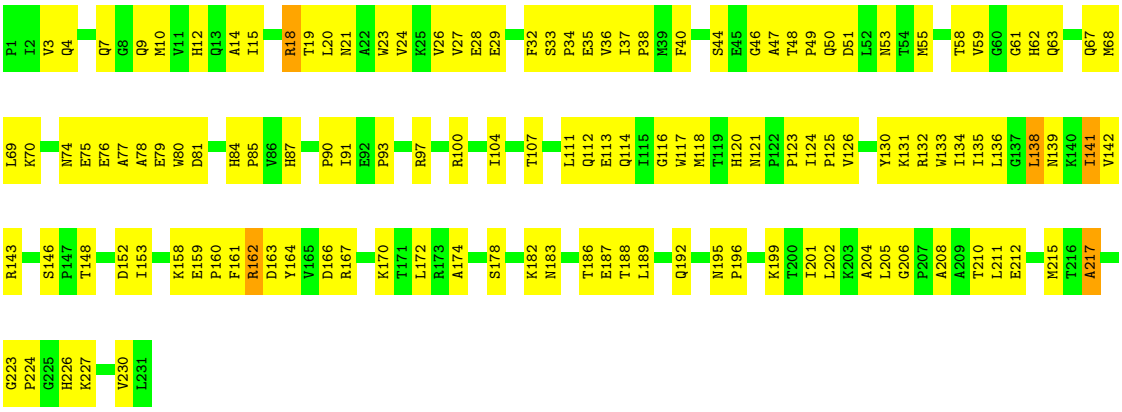
Chain 16:



• Molecule 1: capsid protein

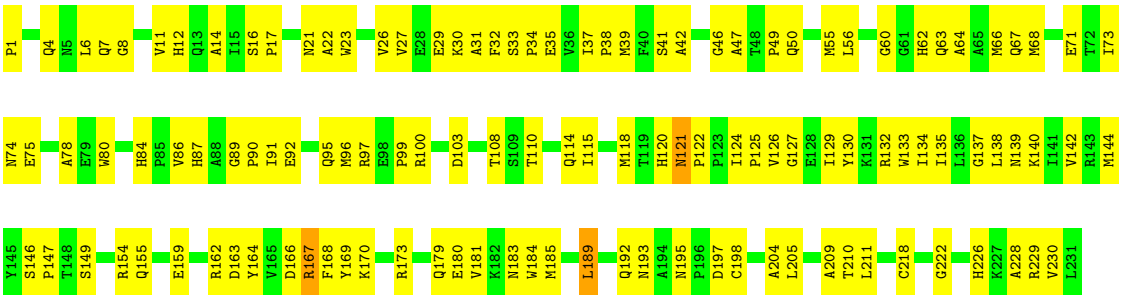
Chain b8:





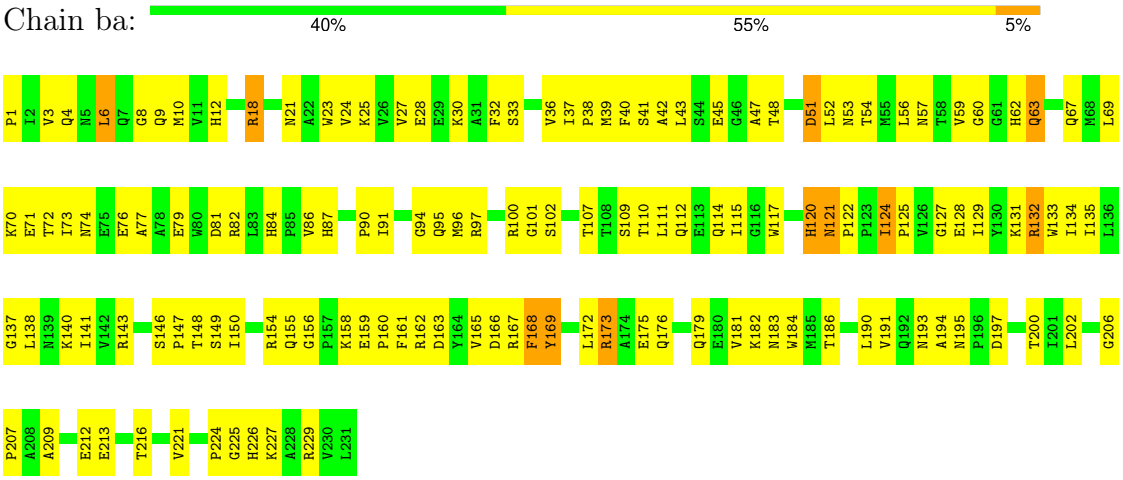
• Molecule 1: capsid protein

Chain b9:



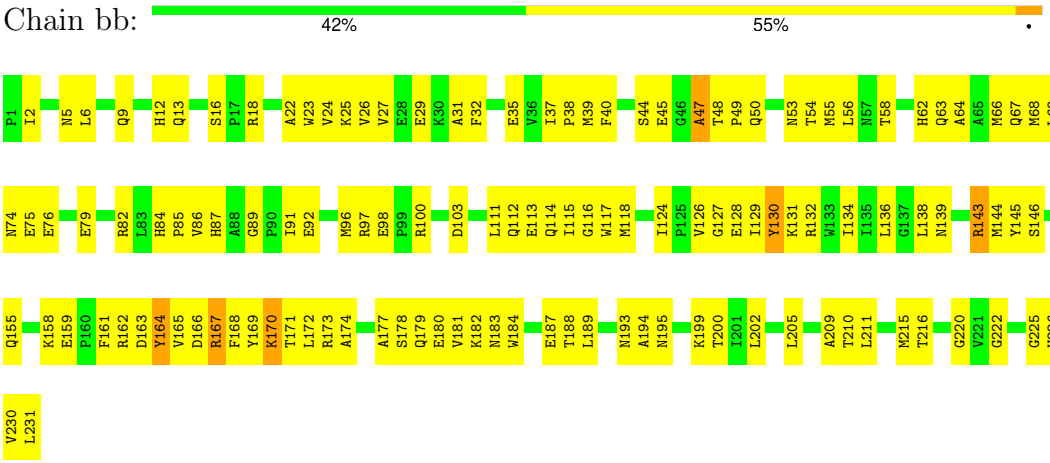
• Molecule 1: capsid protein

Chain ba:



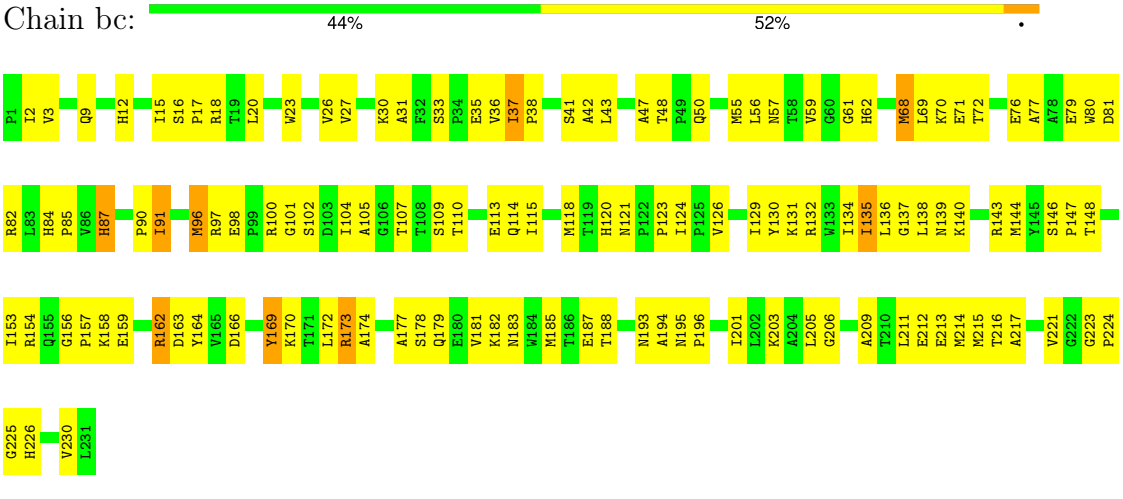
• Molecule 1: capsid protein

Chain bb:



• Molecule 1: capsid protein

Chain bc:

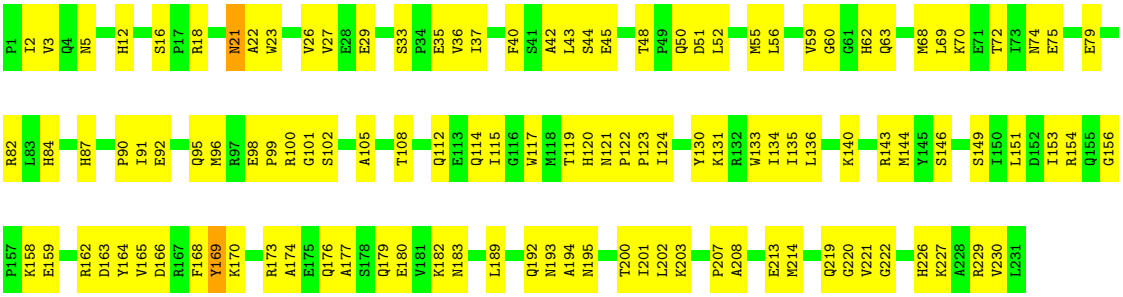


• Molecule 1: capsid protein

Chain bd:

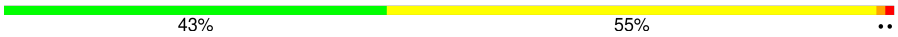
• Molecule 1: capsid protein

Chain be:



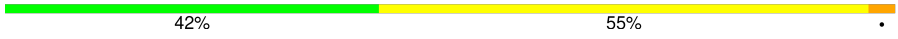
• Molecule 1: capsid protein

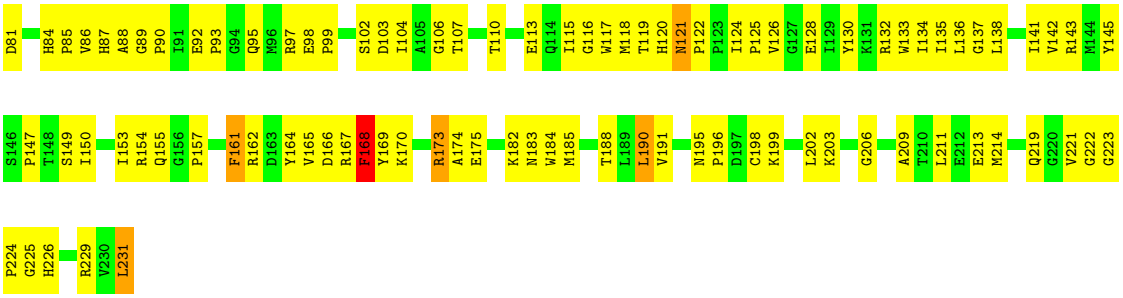
Chain bf:



• Molecule 1: capsid protein

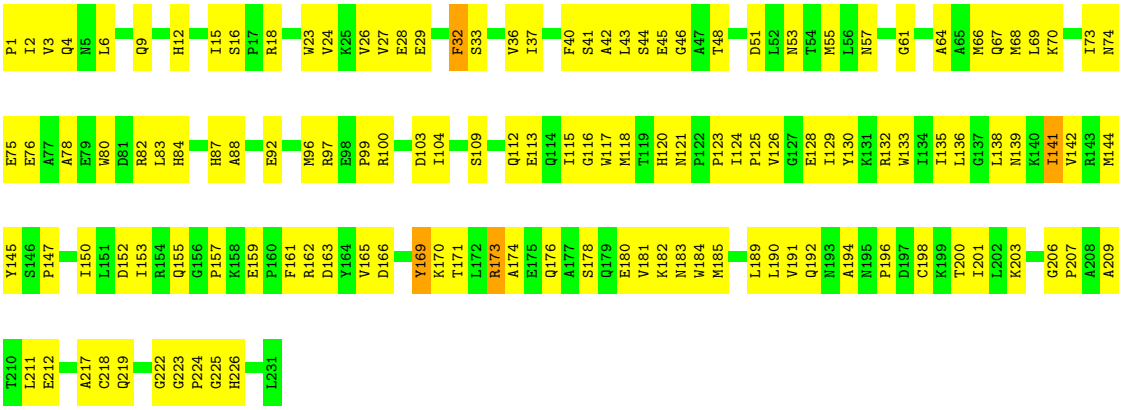
Chain bg:





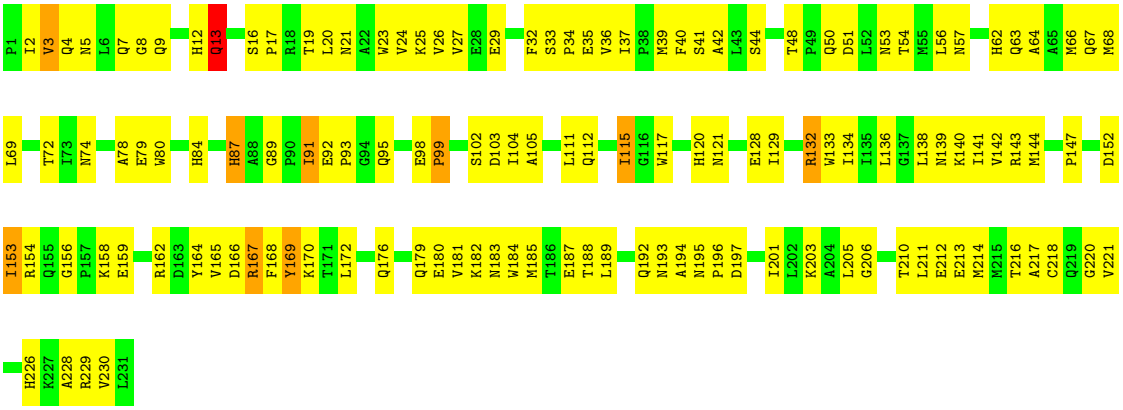
• Molecule 1: capsid protein

Chain bh:



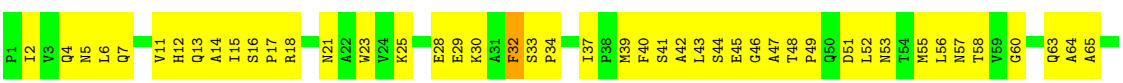
• Molecule 1: capsid protein

Chain 17:



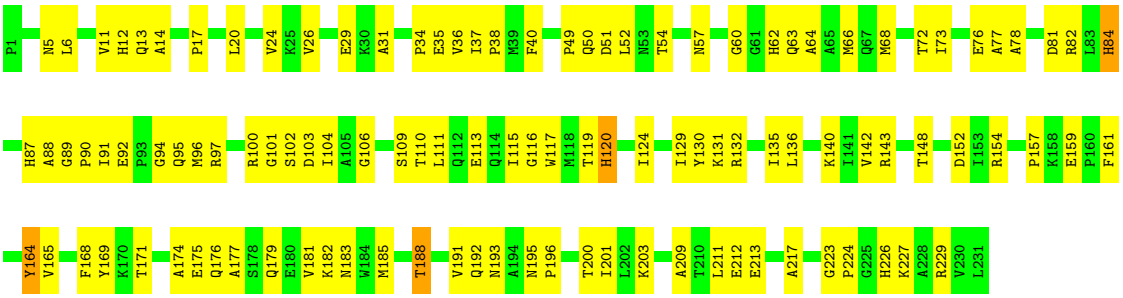
• Molecule 1: capsid protein

Chain bi:



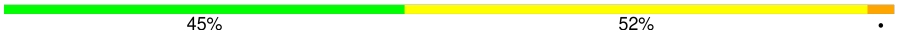
• Molecule 1: capsid protein

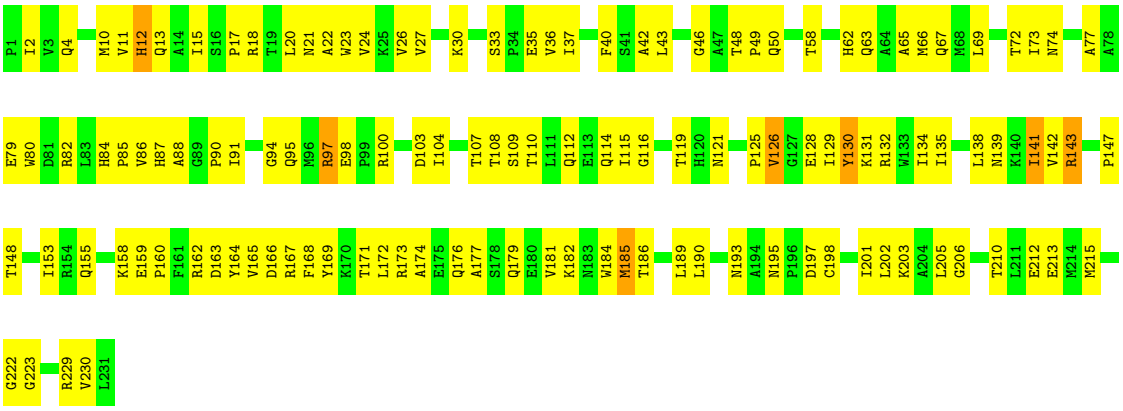
Chain bj:



• Molecule 1: capsid protein

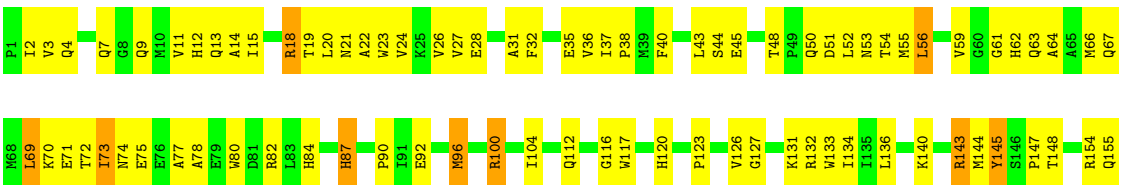
Chain bk:

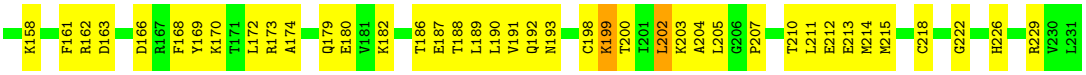




• Molecule 1: capsid protein

Chain bl:



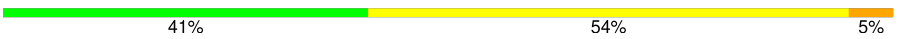


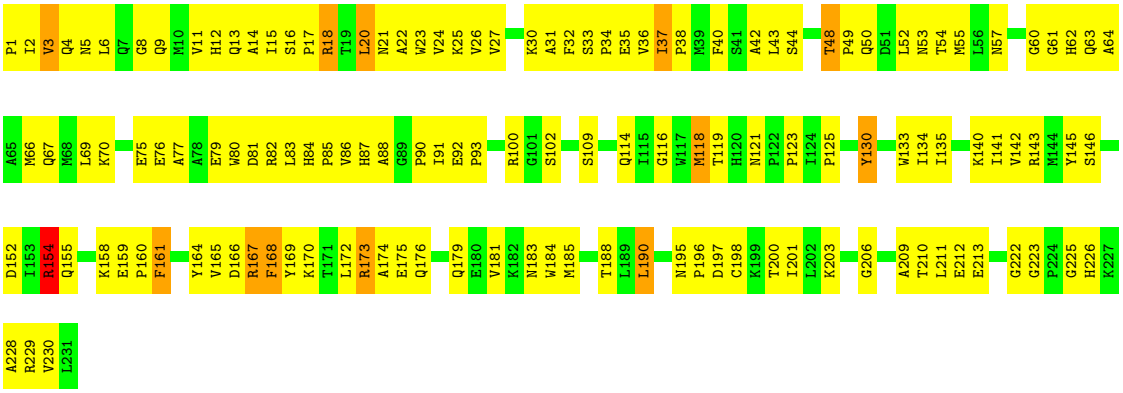
• Molecule 1: capsid protein

Chain bm:

• Molecule 1: capsid protein

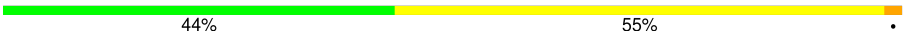
Chain bn:

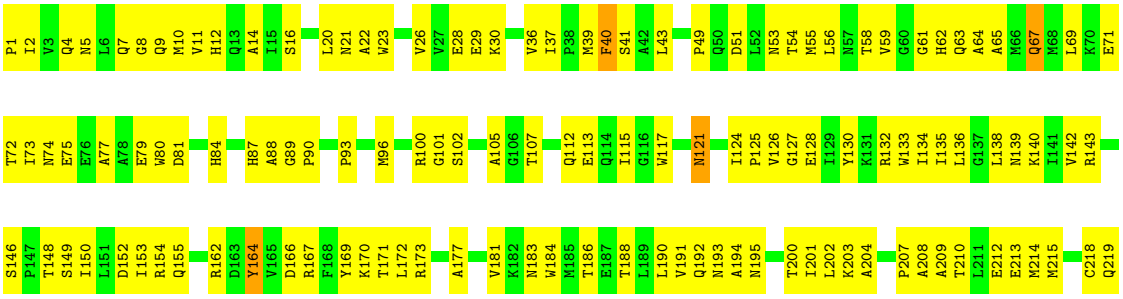


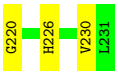


• Molecule 1: capsid protein

Chain bo:

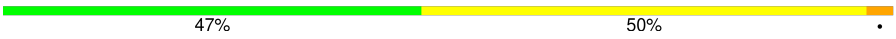


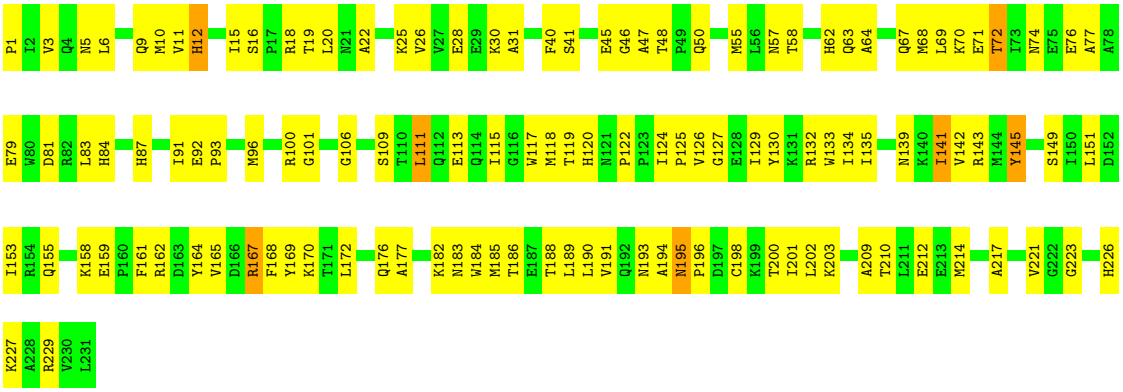




• Molecule 1: capsid protein

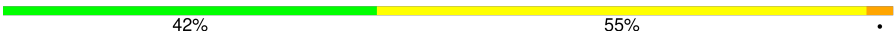
Chain bp:

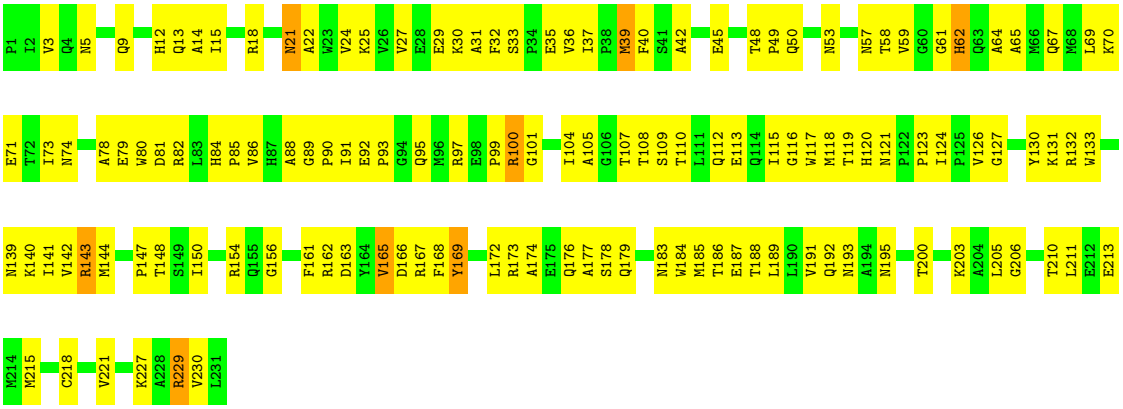




• Molecule 1: capsid protein

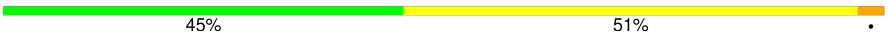
Chain bq:

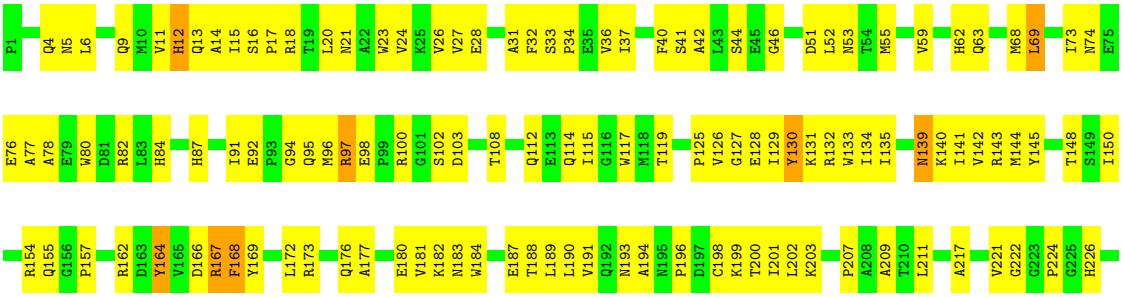




• Molecule 1: capsid protein

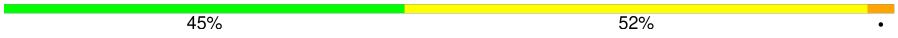
Chain br:





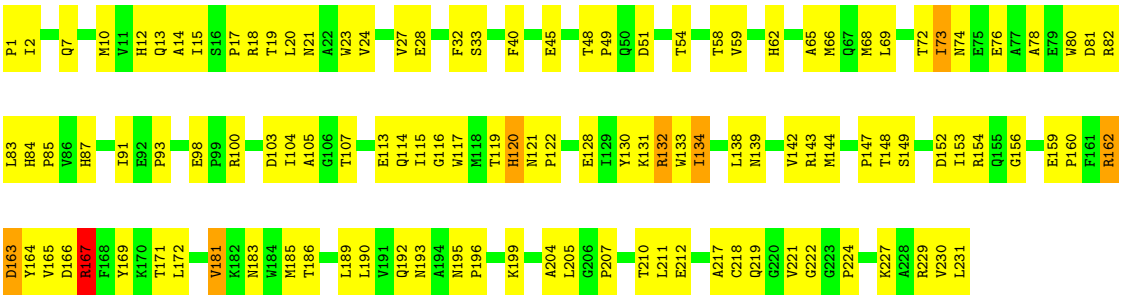
• Molecule 1: capsid protein

Chain 18:



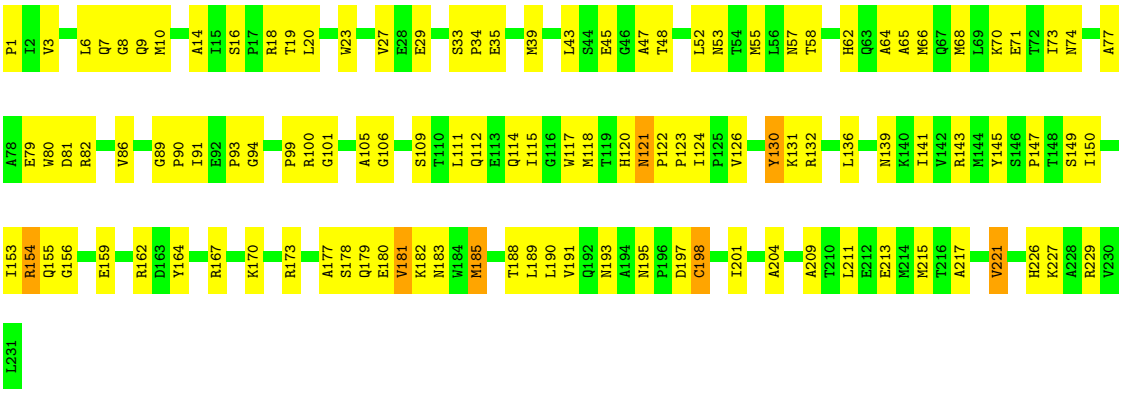
• Molecule 1: capsid protein

Chain bs:



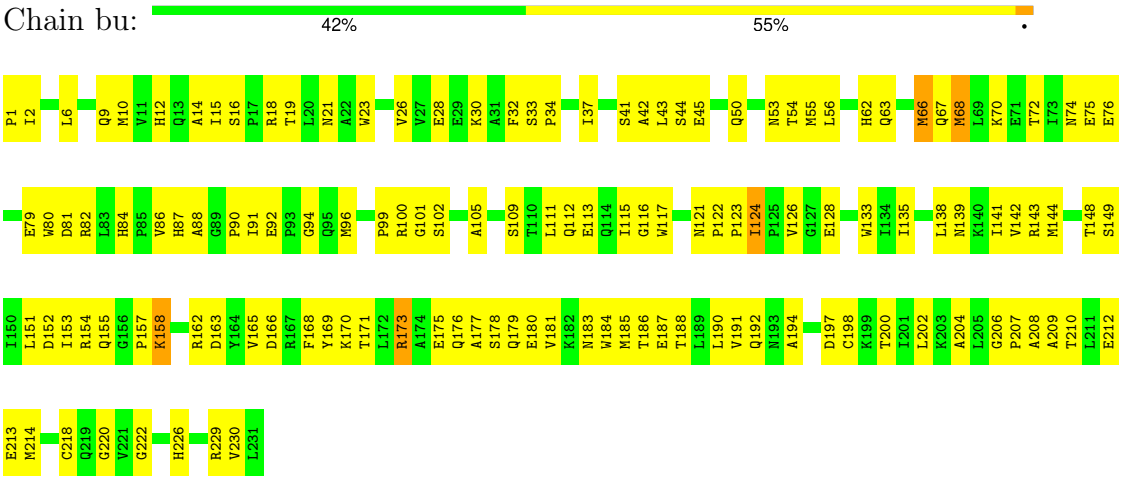
• Molecule 1: capsid protein

Chain bt:



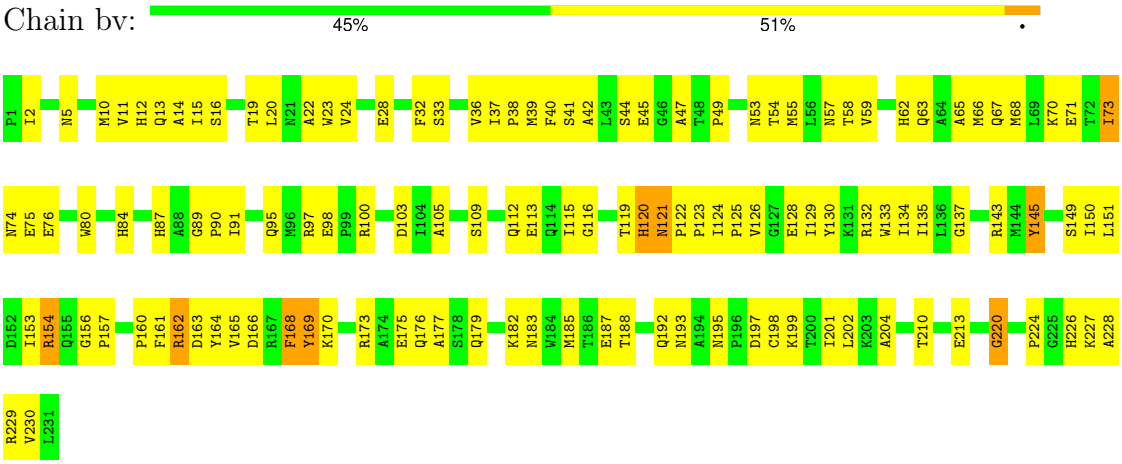
• Molecule 1: capsid protein

Chain bu:



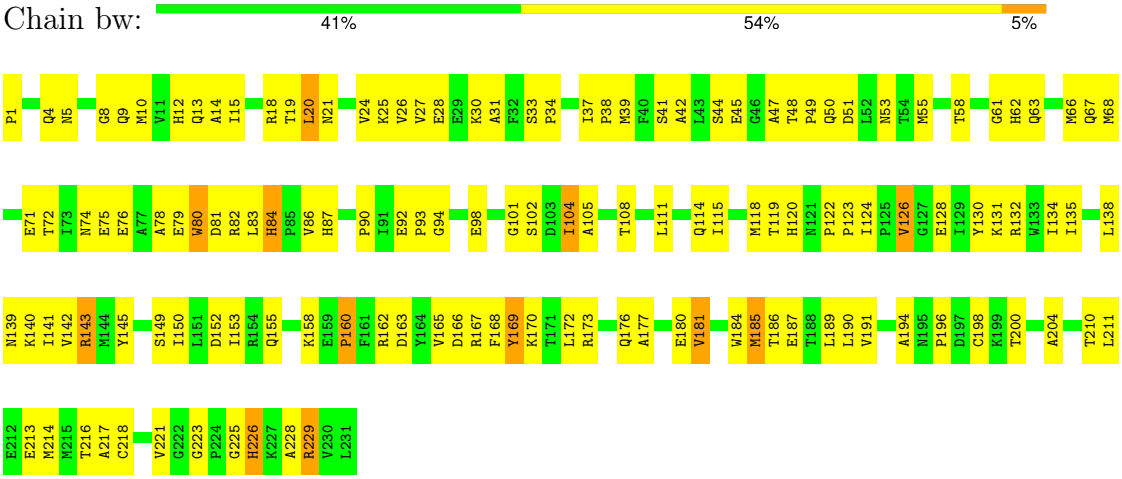
• Molecule 1: capsid protein

Chain bv:



• Molecule 1: capsid protein

Chain bw:

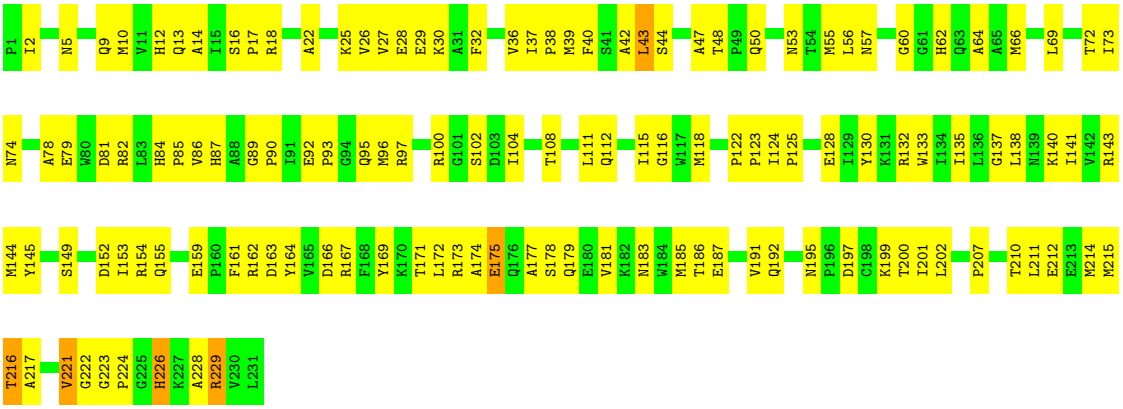


• Molecule 1: capsid protein

Chain bx:

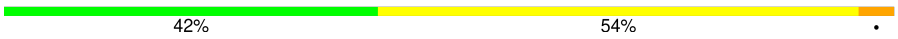
• Molecule 1: capsid protein

Chain by:



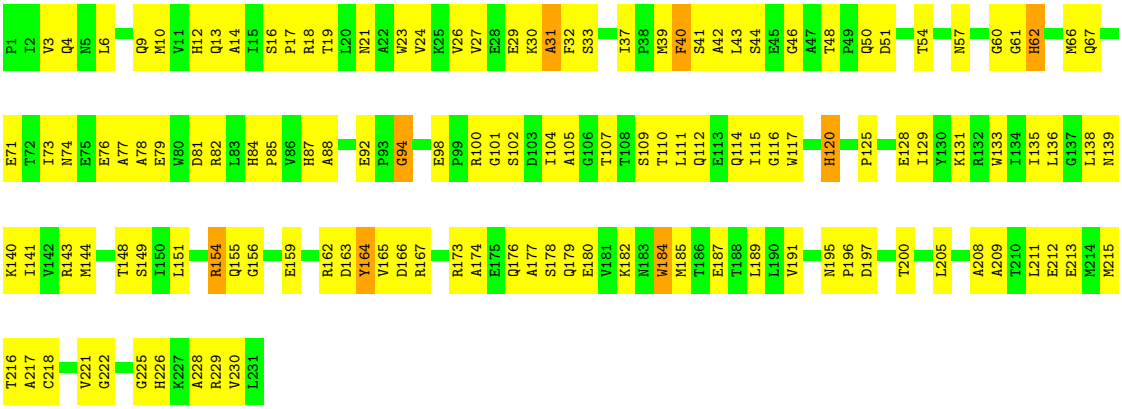
• Molecule 1: capsid protein

Chain bz:



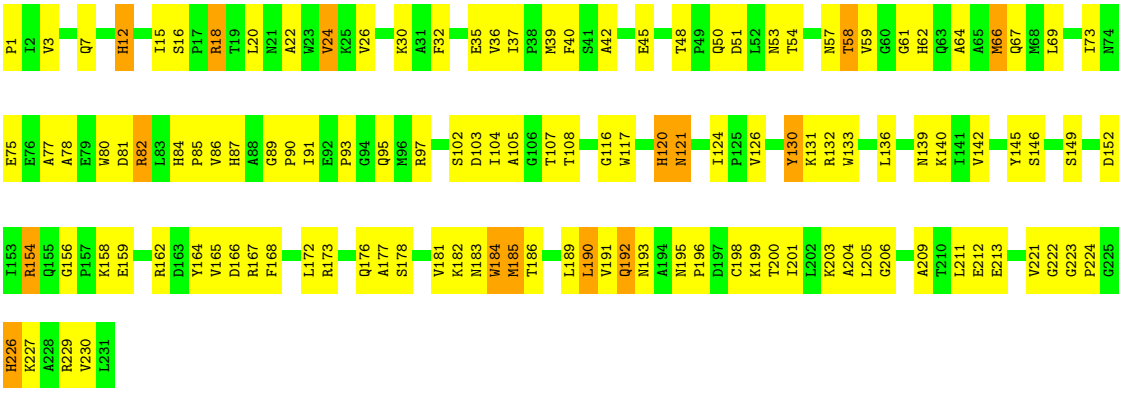
• Molecule 1: capsid protein

Chain bA:



• Molecule 1: capsid protein

Chain bB:

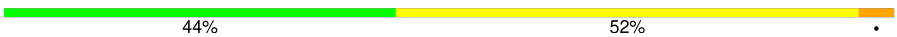


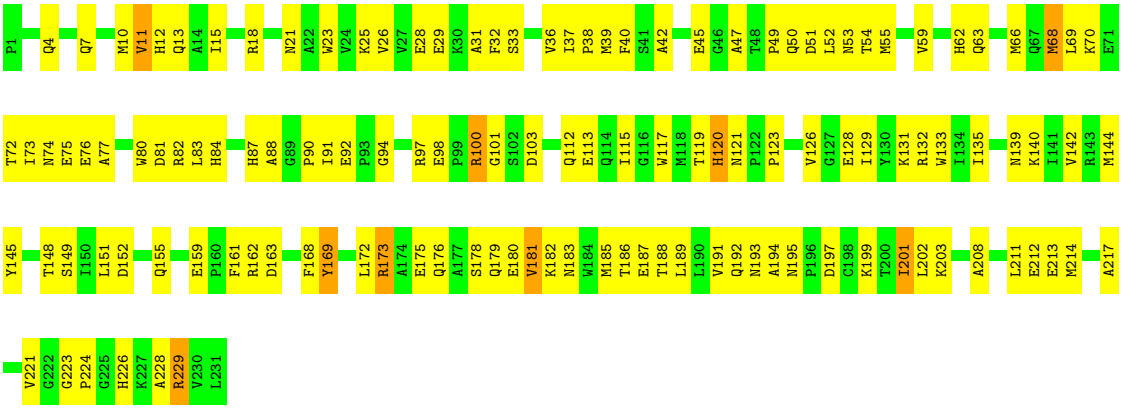
• Molecule 1: capsid protein

Chain 19:

• Molecule 1: capsid protein

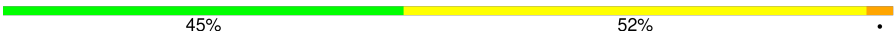
Chain bC:

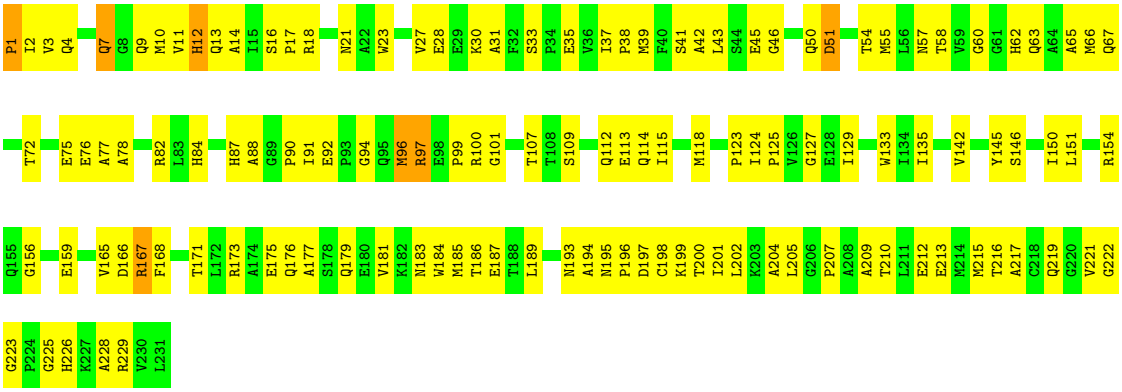




• Molecule 1: capsid protein

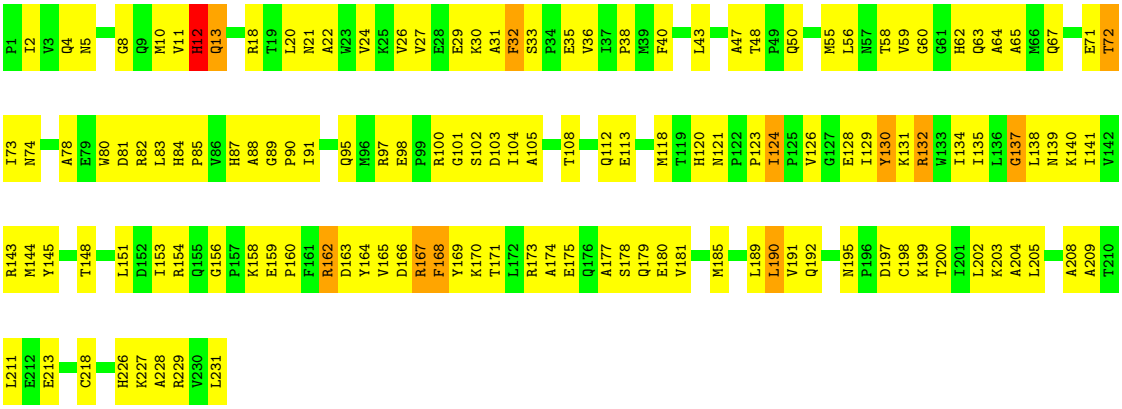
Chain bD:





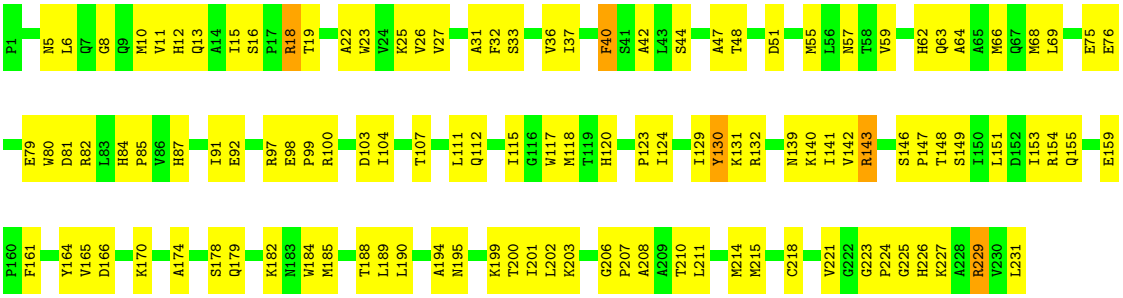
• Molecule 1: capsid protein

Chain bE:



• Molecule 1: capsid protein

Chain bF:

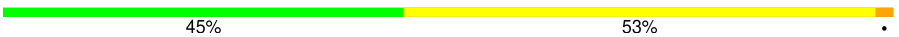


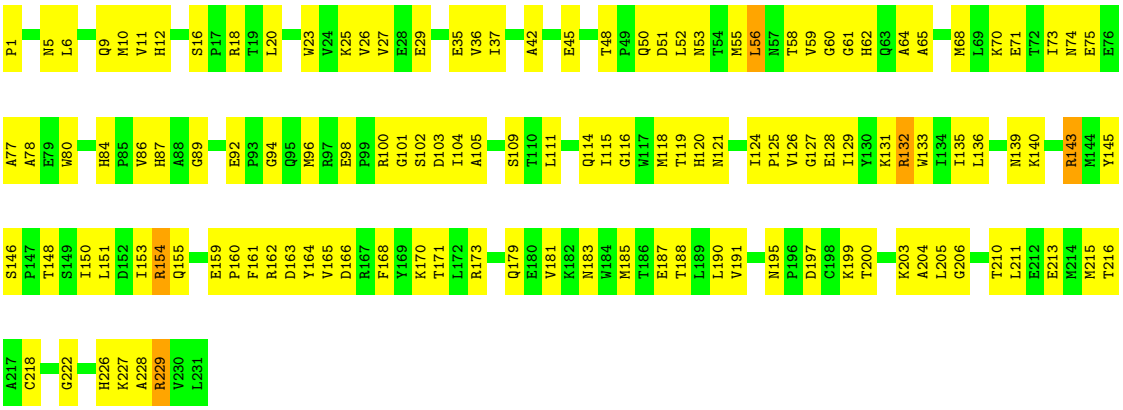
• Molecule 1: capsid protein

Chain bG:

• Molecule 1: capsid protein

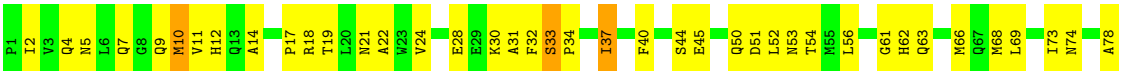
Chain bH:

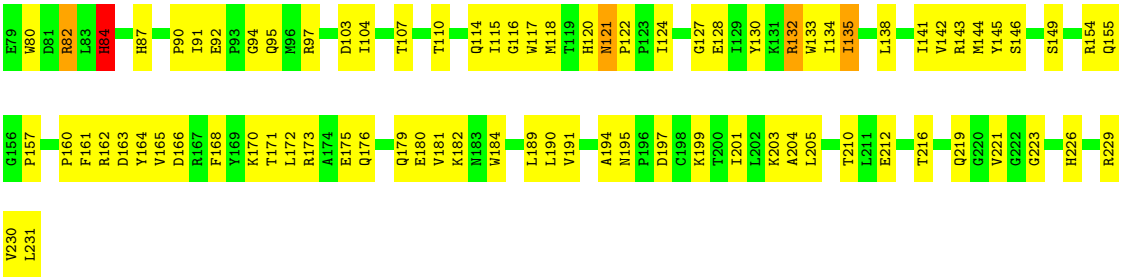




• Molecule 1: capsid protein

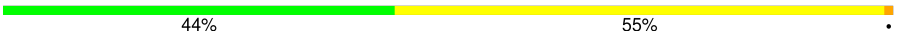
Chain bI:

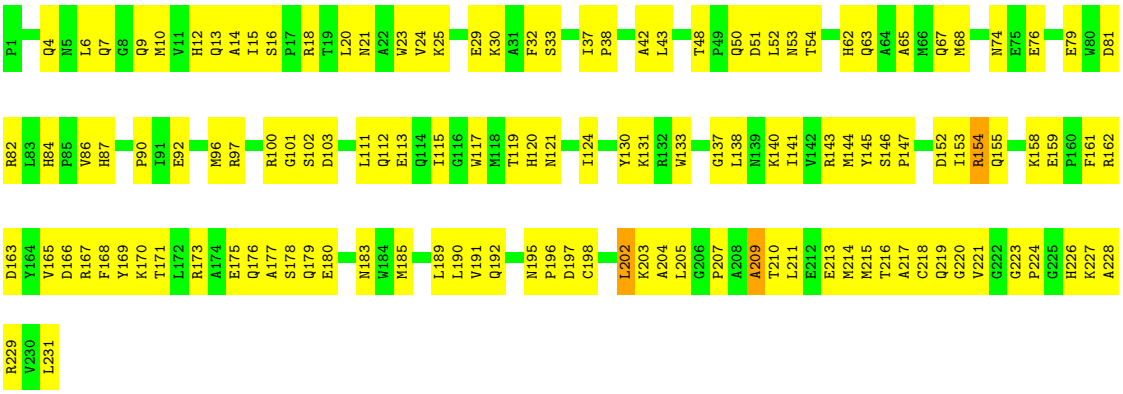




• Molecule 1: capsid protein

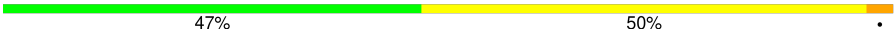
Chain bJ:





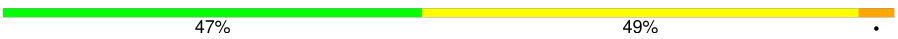
• Molecule 1: capsid protein

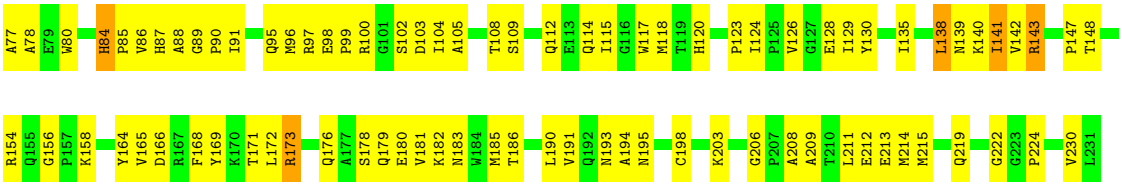
Chain bK:



• Molecule 1: capsid protein

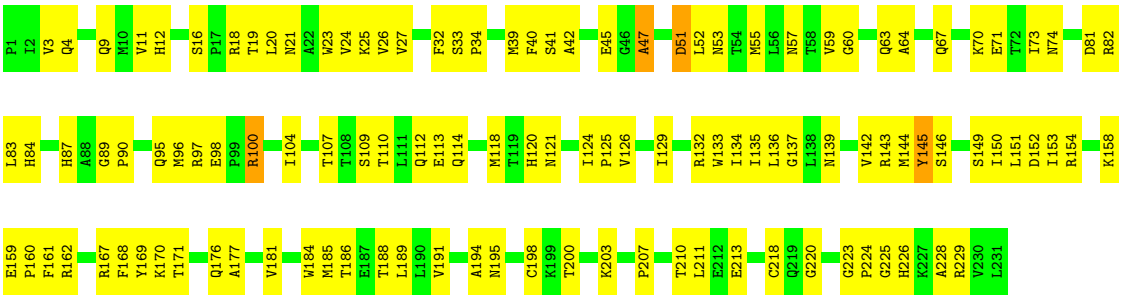
Chain bL:





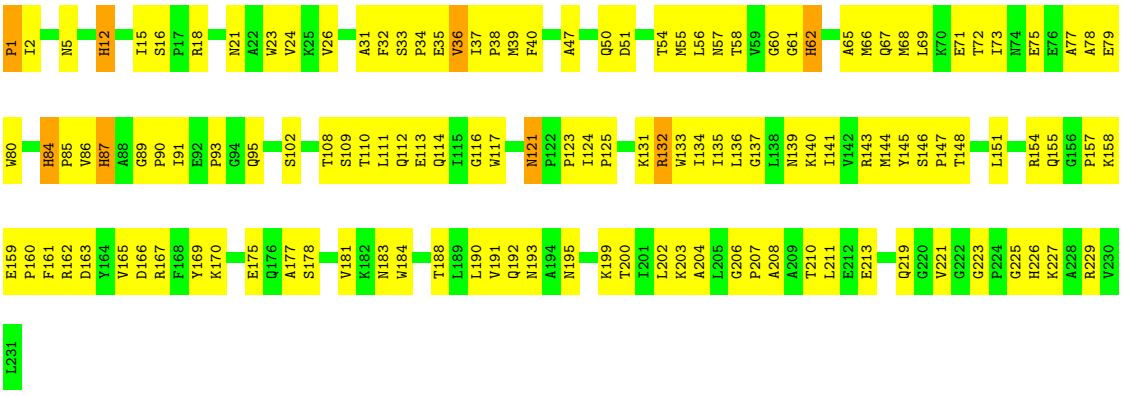
• Molecule 1: capsid protein

Chain 1a:



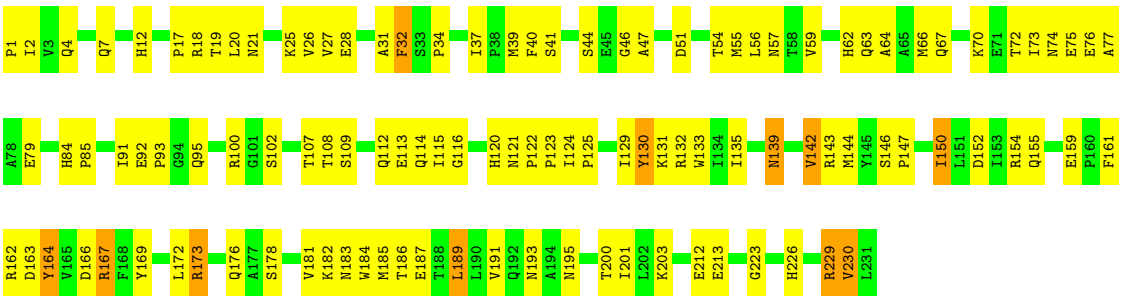
• Molecule 1: capsid protein

Chain bM:



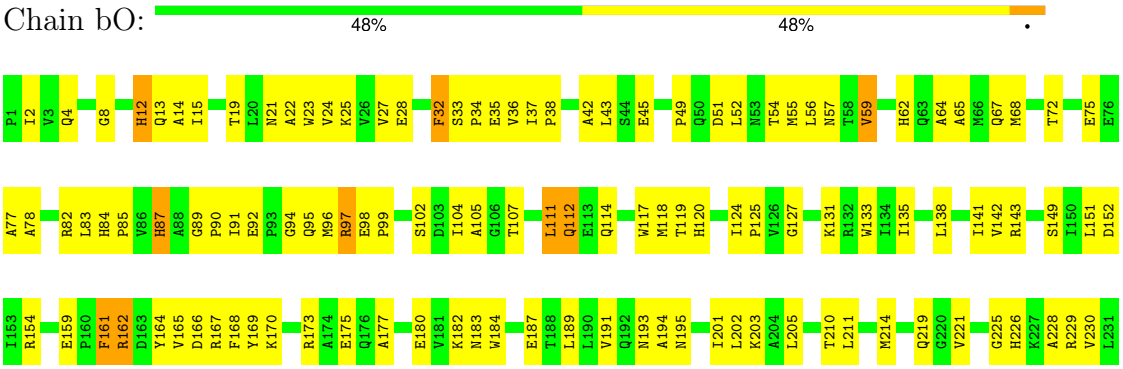
• Molecule 1: capsid protein

Chain bN:



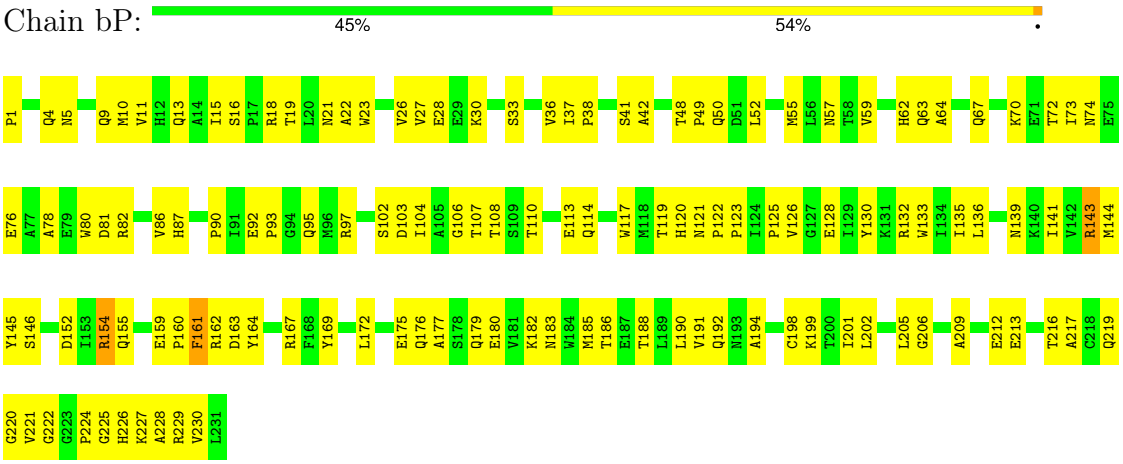
• Molecule 1: capsid protein

Chain bO:



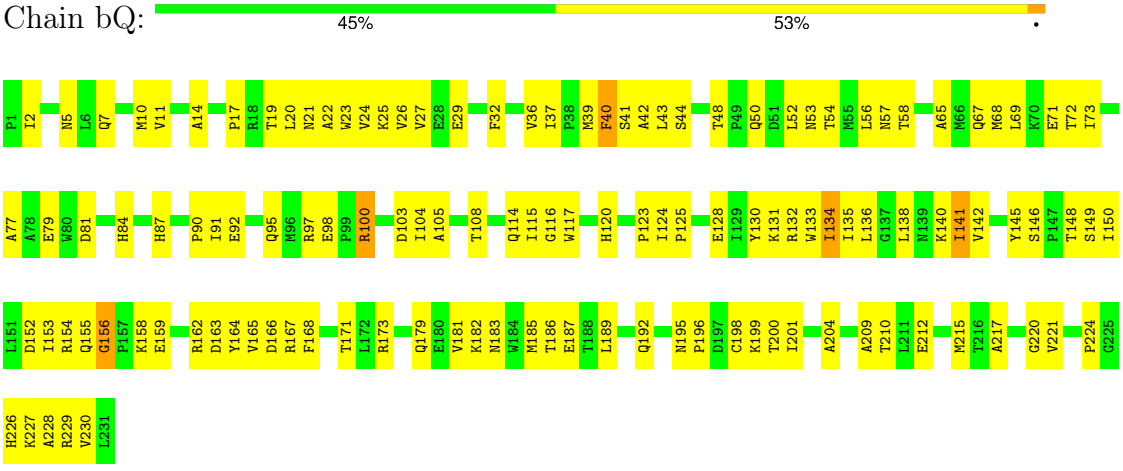
• Molecule 1: capsid protein

Chain bP:



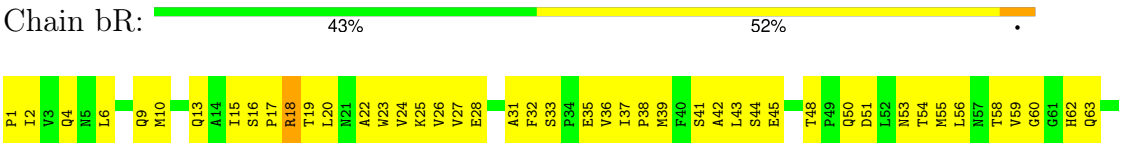
• Molecule 1: capsid protein

Chain bQ:



• Molecule 1: capsid protein

Chain bR:

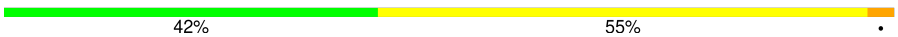


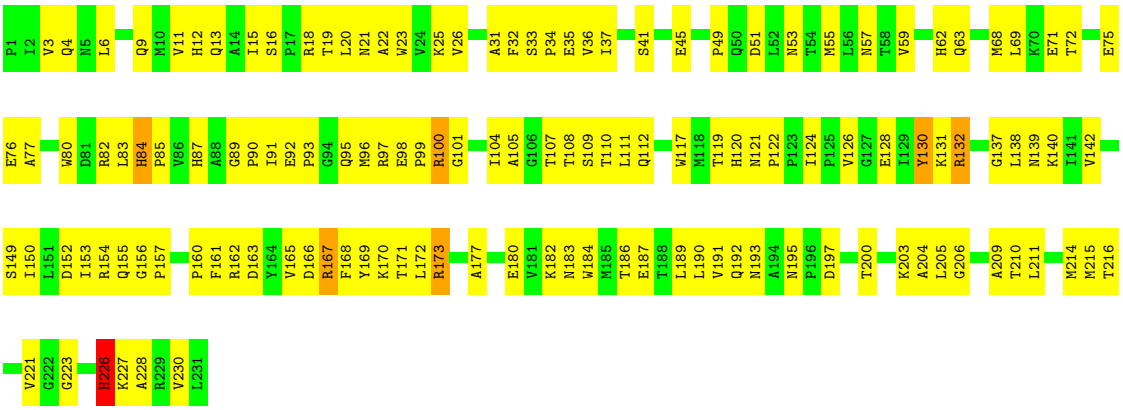
• Molecule 1: capsid protein

Chain bS:

• Molecule 1: capsid protein

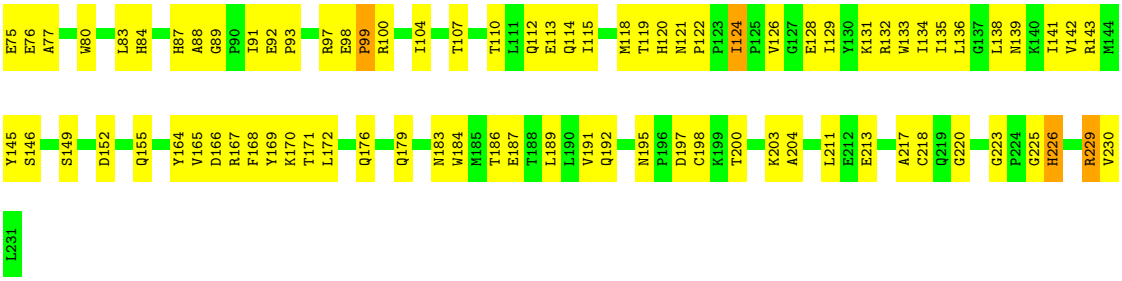
Chain bT:





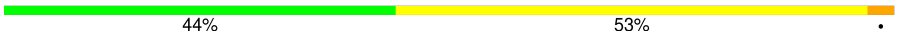
• Molecule 1: capsid protein

Chain bU:



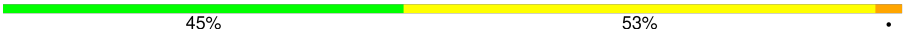
• Molecule 1: capsid protein

Chain bV:



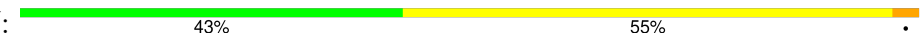
• Molecule 1: capsid protein

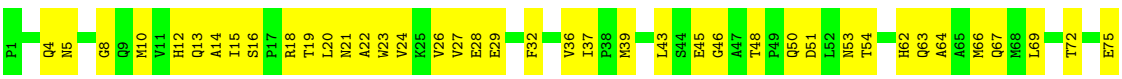
Chain 1b:



• Molecule 1: capsid protein

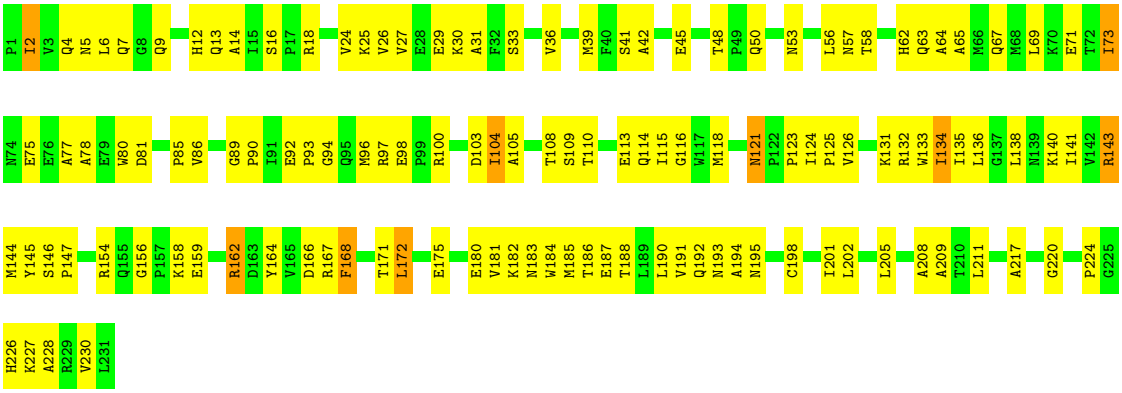
Chain bW:





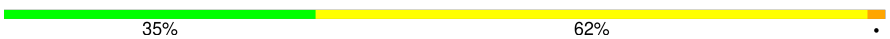
• Molecule 1: capsid protein

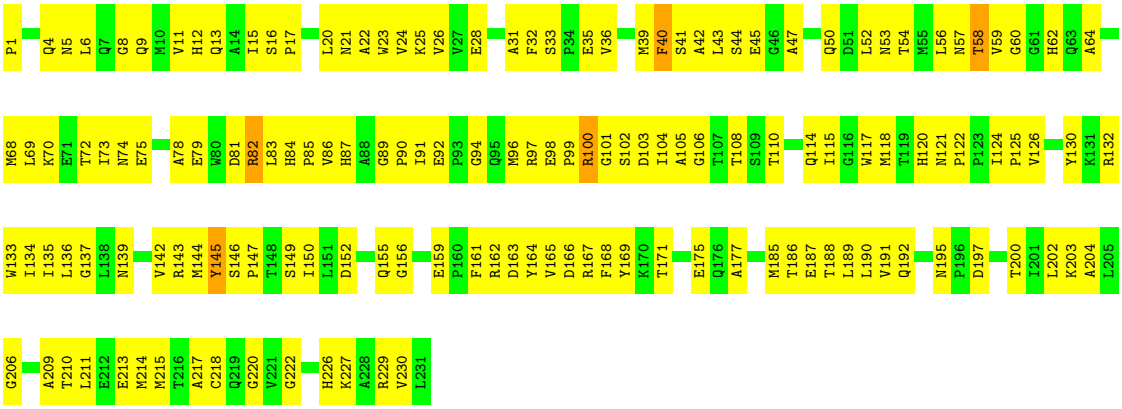
Chain bX:



• Molecule 1: capsid protein

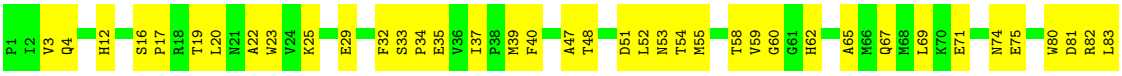
Chain bY:





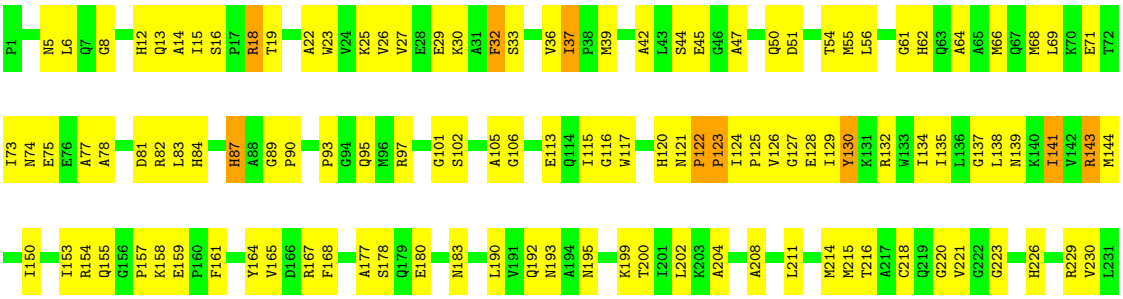
• Molecule 1: capsid protein

Chain bZ:



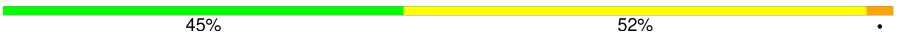
• Molecule 1: capsid protein

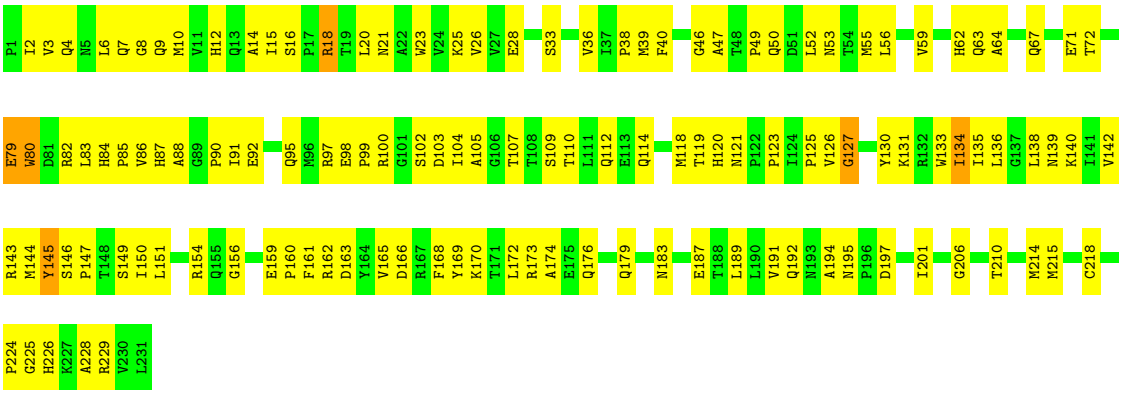
Chain c0:



• Molecule 1: capsid protein

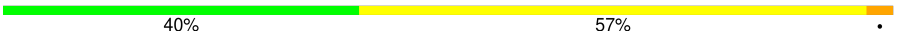
Chain c1:

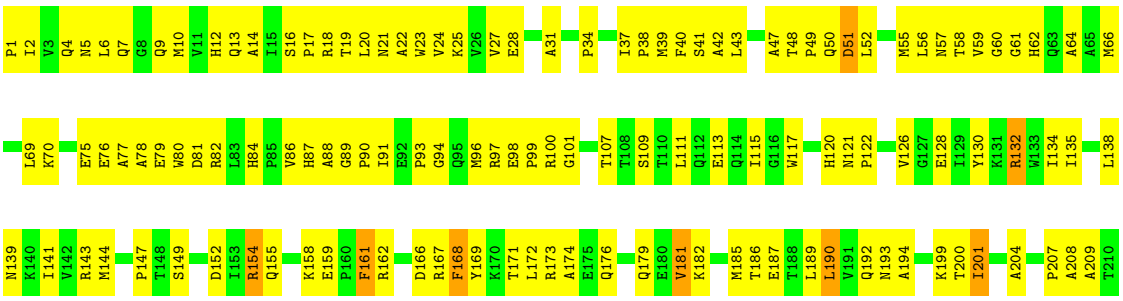


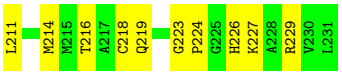


• Molecule 1: capsid protein

Chain c2:

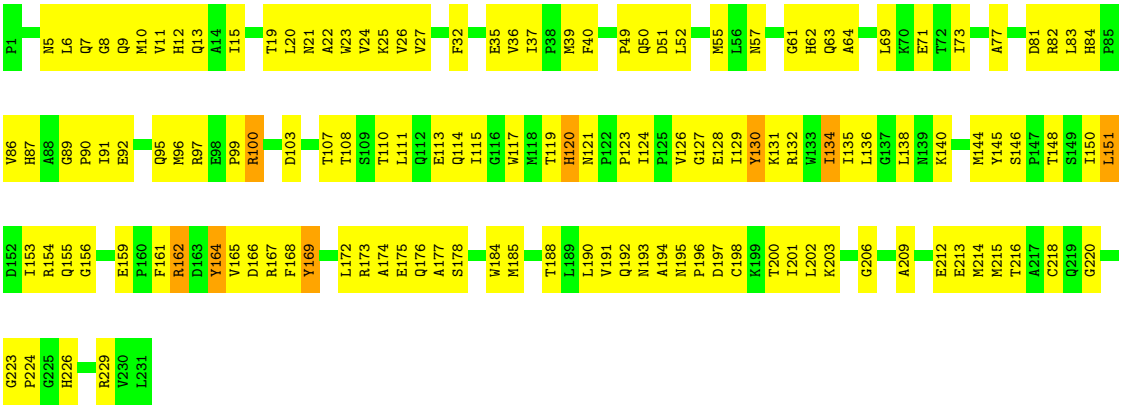






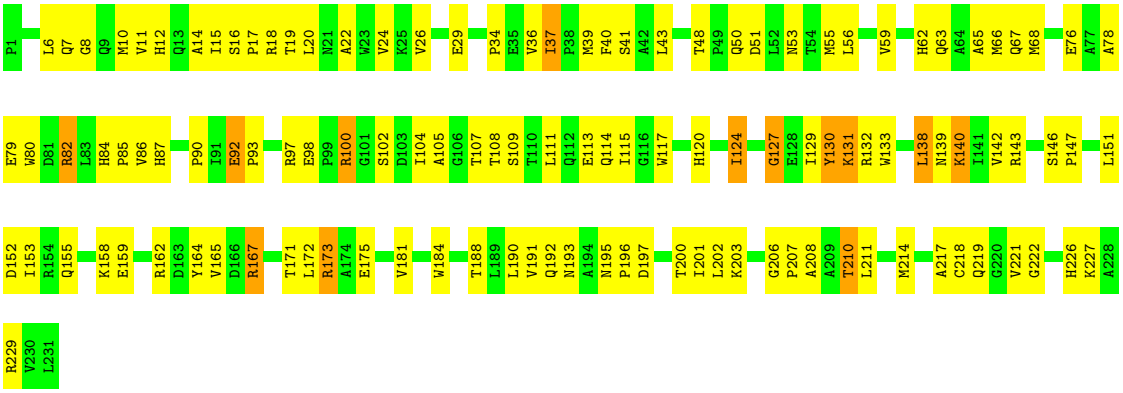
• Molecule 1: capsid protein

Chain c3:



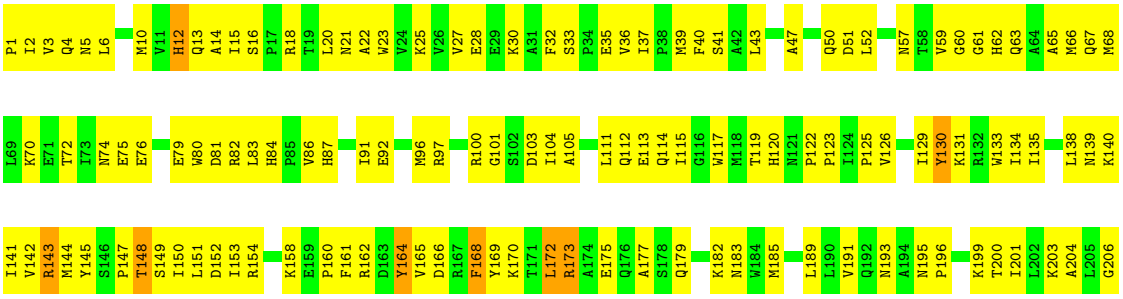
• Molecule 1: capsid protein

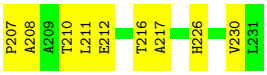
Chain c4:



• Molecule 1: capsid protein

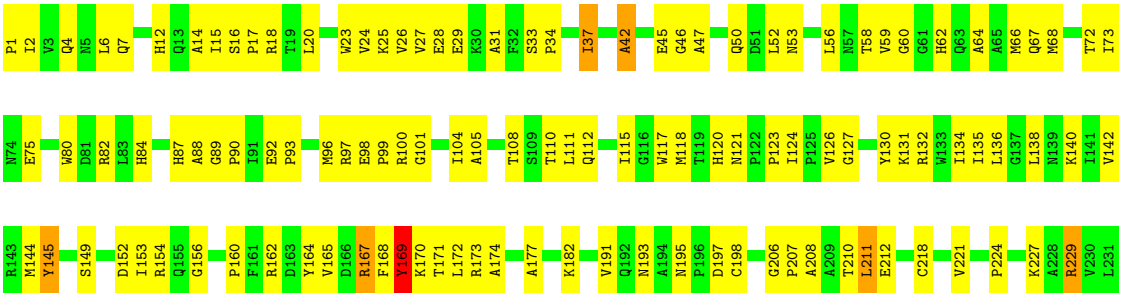
Chain c5:





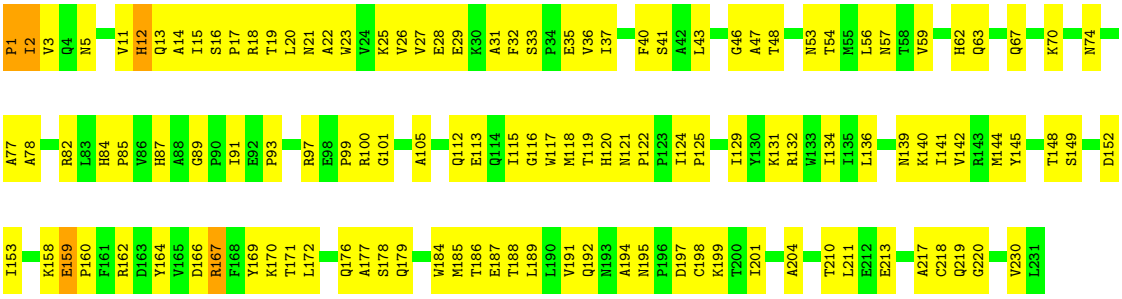
• Molecule 1: capsid protein

Chain 1c:



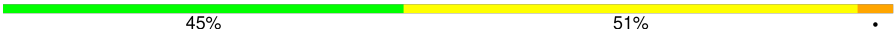
• Molecule 1: capsid protein

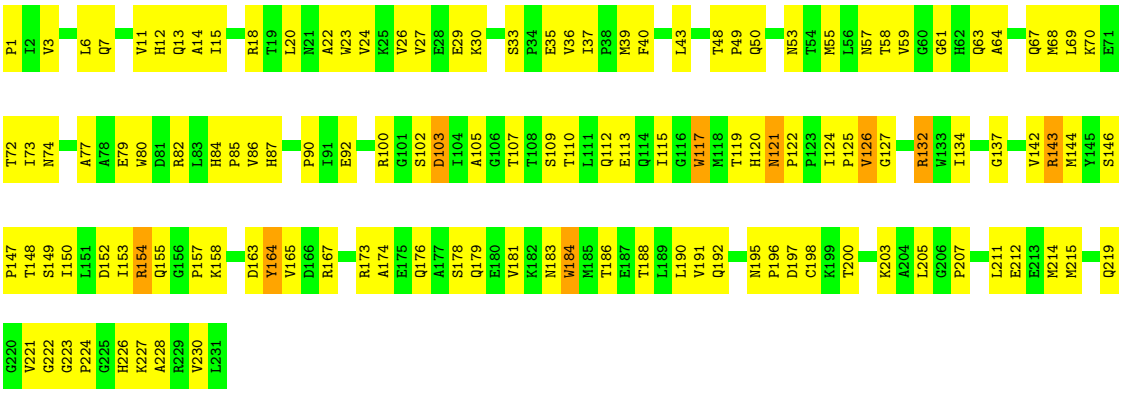
Chain c6:



• Molecule 1: capsid protein

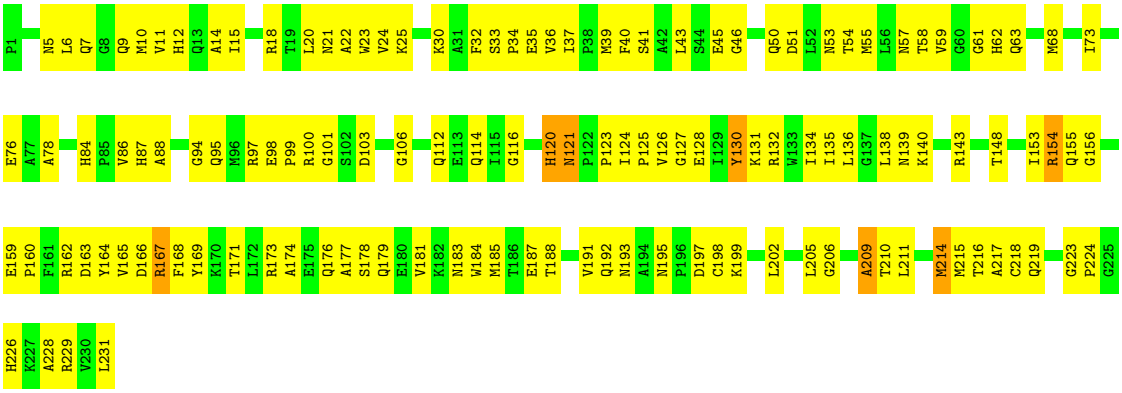
Chain c7:





• Molecule 1: capsid protein

Chain c8:

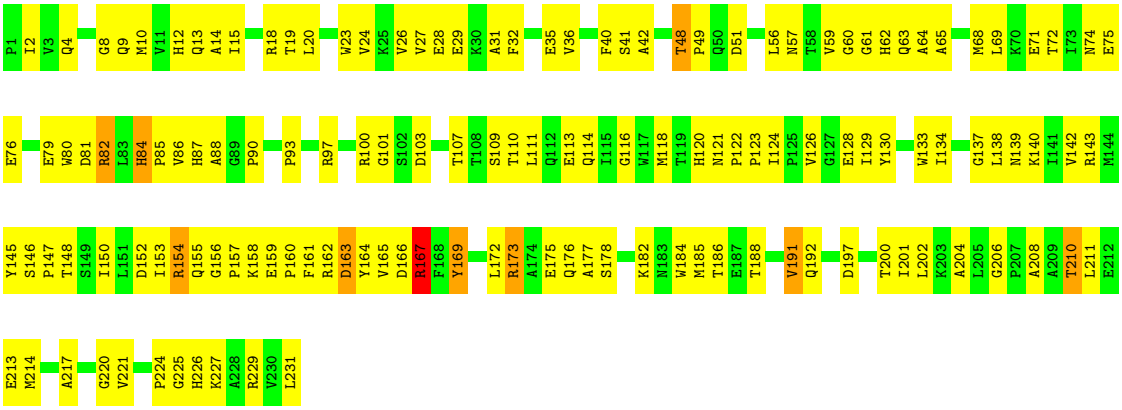


• Molecule 1: capsid protein

Chain c9:

• Molecule 1: capsid protein

Chain ca:

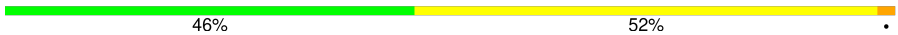


• Molecule 1: capsid protein

Chain cb:

• Molecule 1: capsid protein

Chain cc:



• Molecule 1: capsid protein

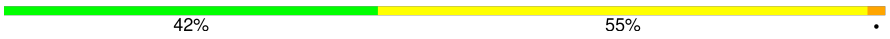
Chain cd:

• Molecule 1: capsid protein

Chain ce:

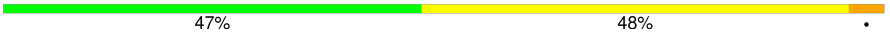
• Molecule 1: capsid protein

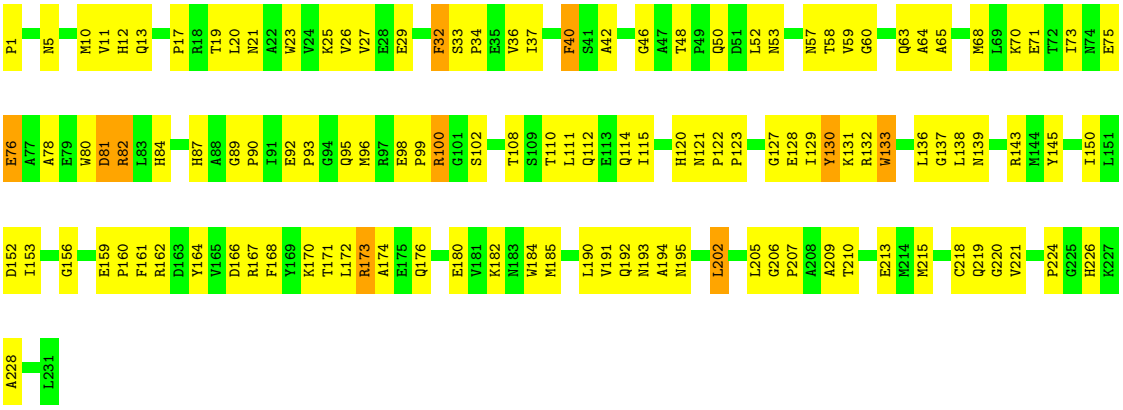
Chain cf:



• Molecule 1: capsid protein

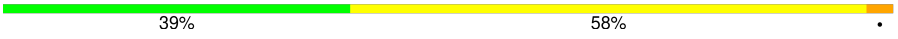
Chain 1d:





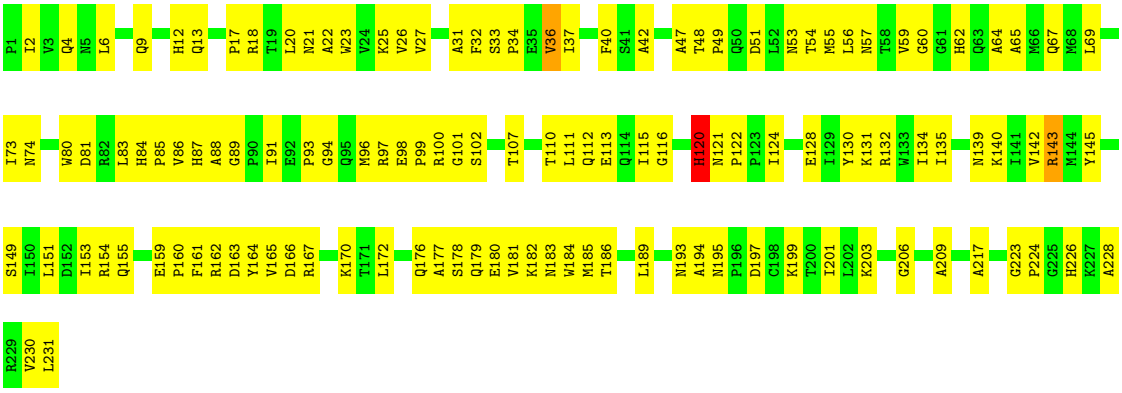
• Molecule 1: capsid protein

Chain cg:



• Molecule 1: capsid protein

Chain ch:

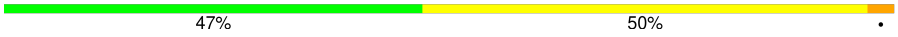


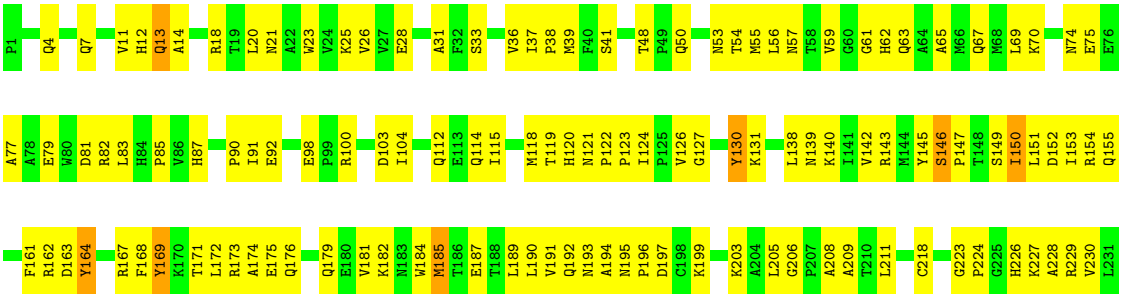
• Molecule 1: capsid protein

Chain ci:

• Molecule 1: capsid protein

Chain cj:





• Molecule 1: capsid protein

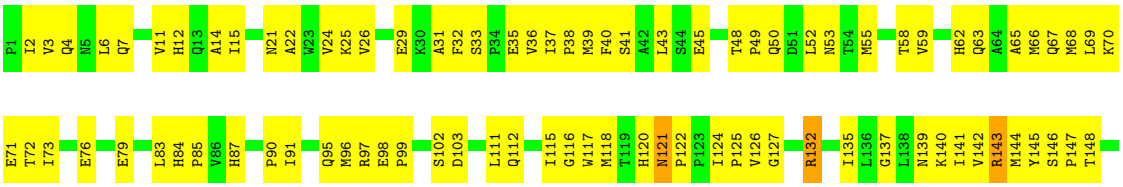
Chain ck:

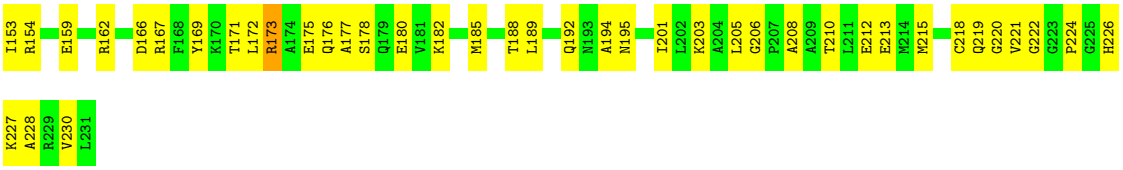
• Molecule 1: capsid protein

Chain cl:

• Molecule 1: capsid protein

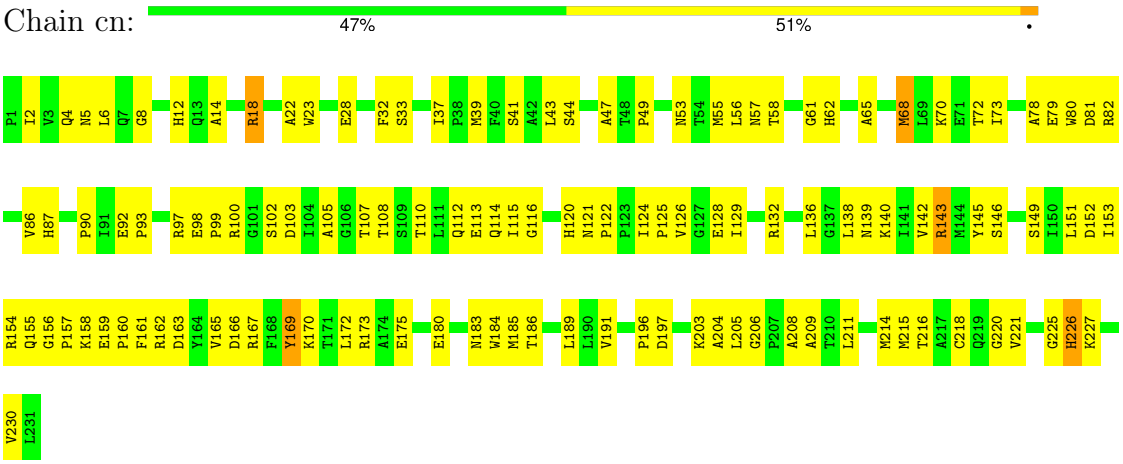
Chain cm:





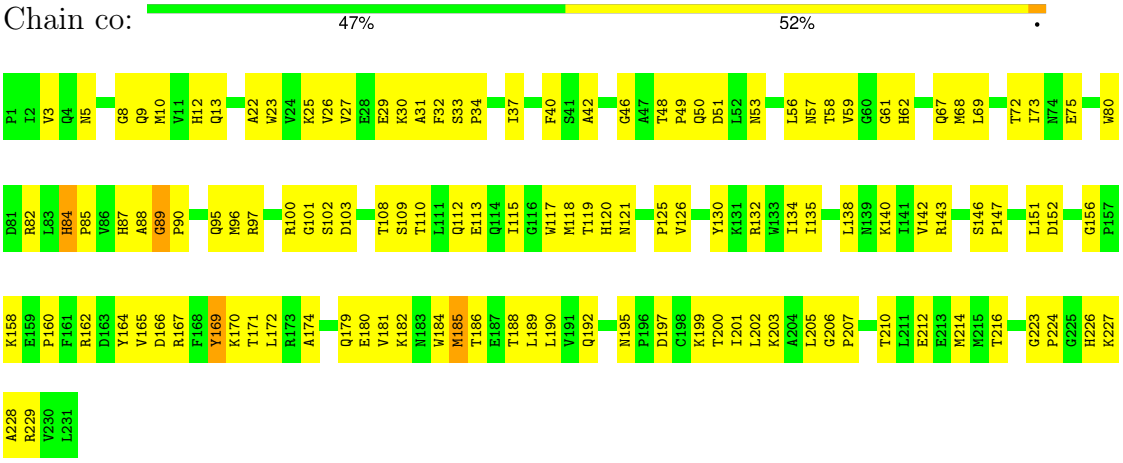
• Molecule 1: capsid protein

Chain cn:



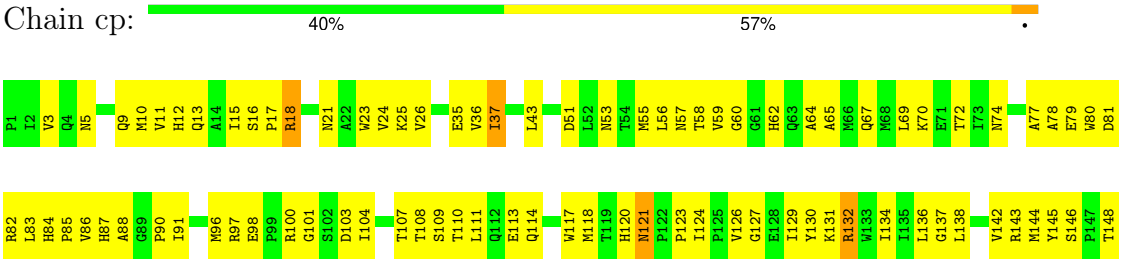
• Molecule 1: capsid protein

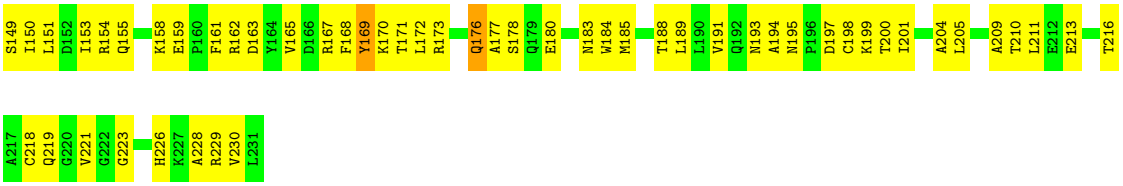
Chain co:



• Molecule 1: capsid protein

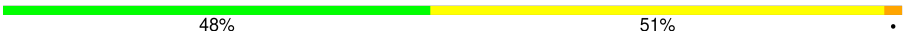
Chain cp:

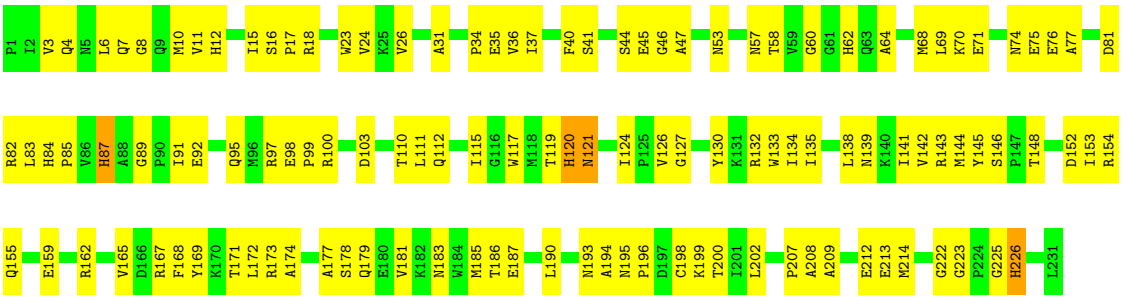




• Molecule 1: capsid protein

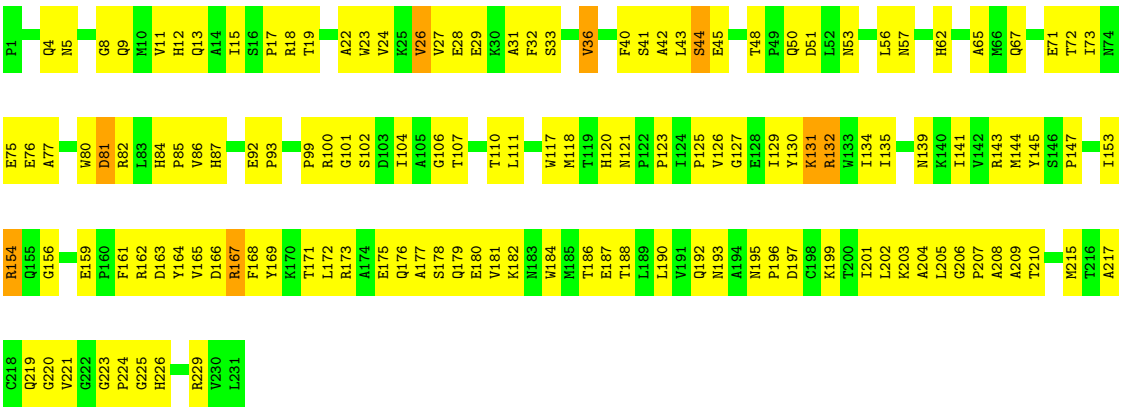
Chain 1e:





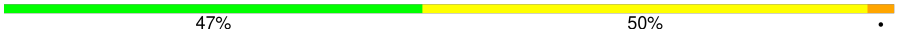
• Molecule 1: capsid protein

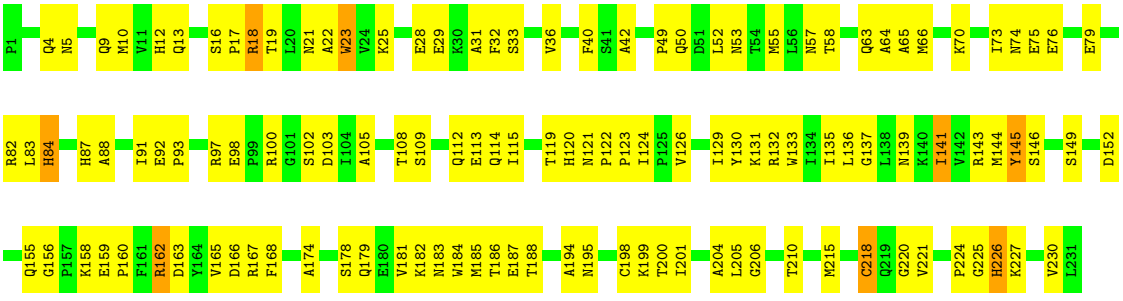
Chain cq:



• Molecule 1: capsid protein

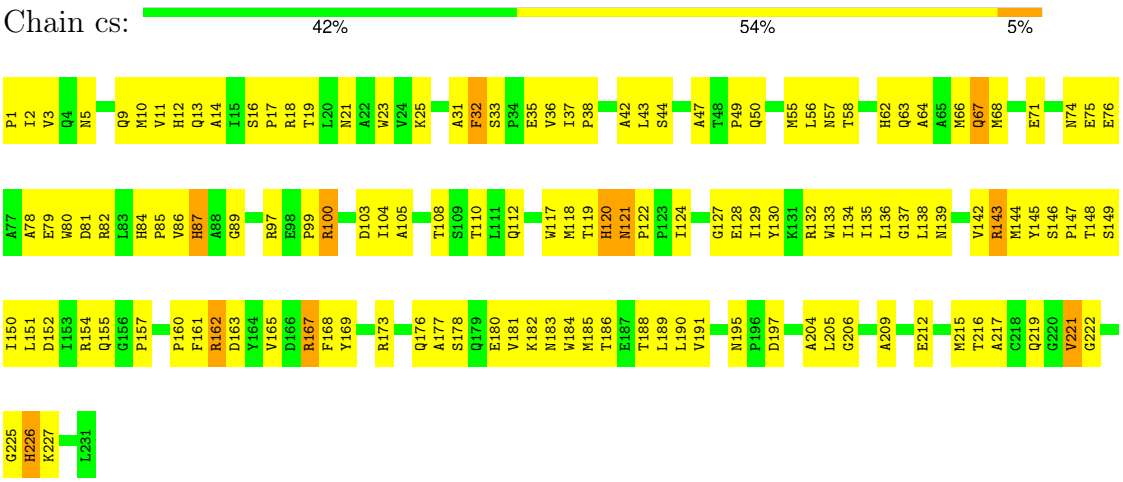
Chain cr:





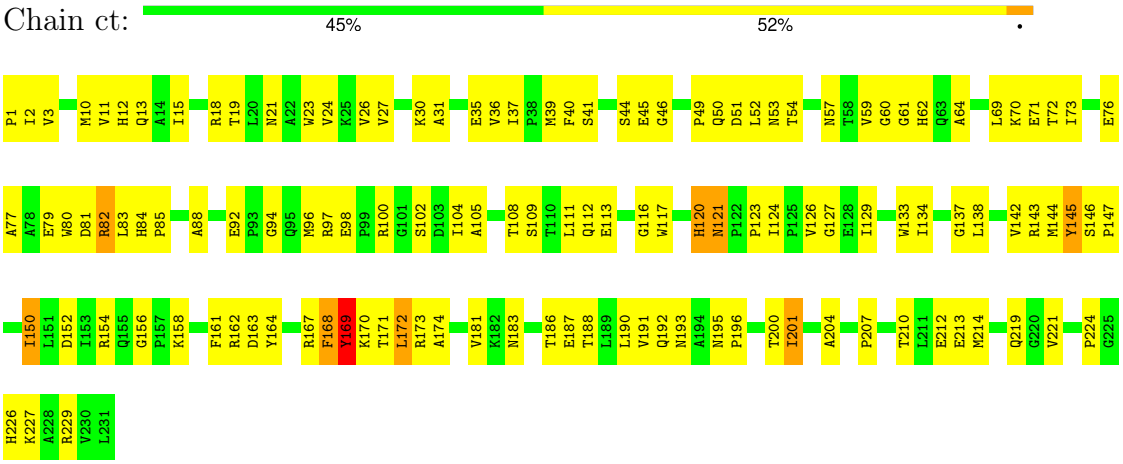
• Molecule 1: capsid protein

Chain cs:



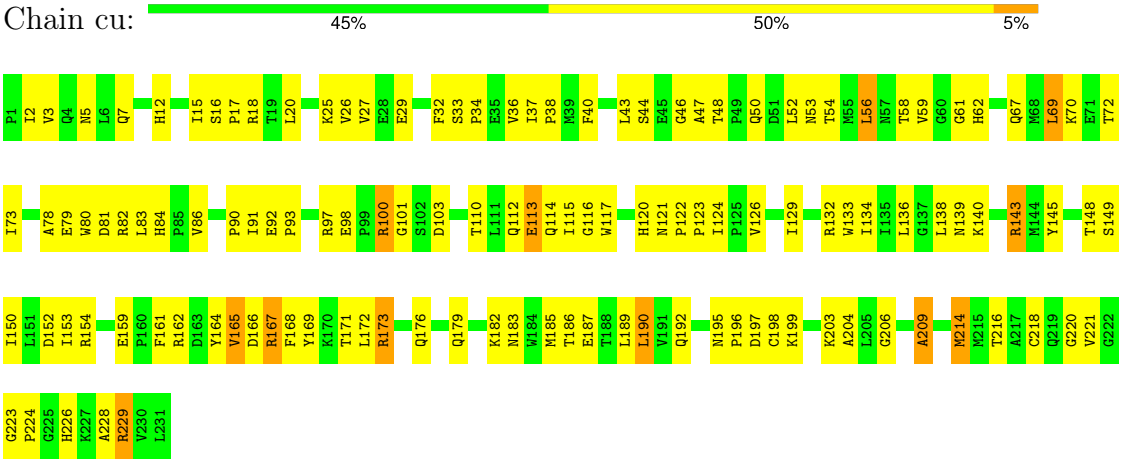
• Molecule 1: capsid protein

Chain ct:



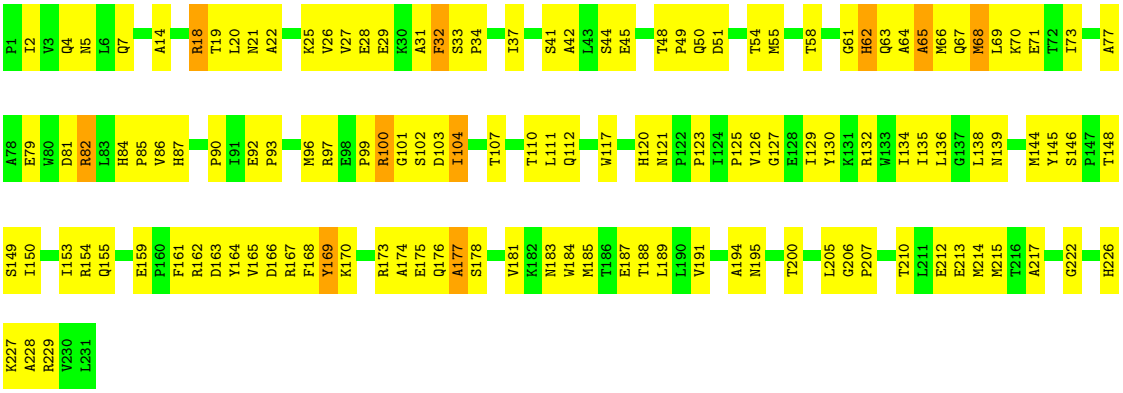
• Molecule 1: capsid protein

Chain cu:



• Molecule 1: capsid protein

Chain cv:

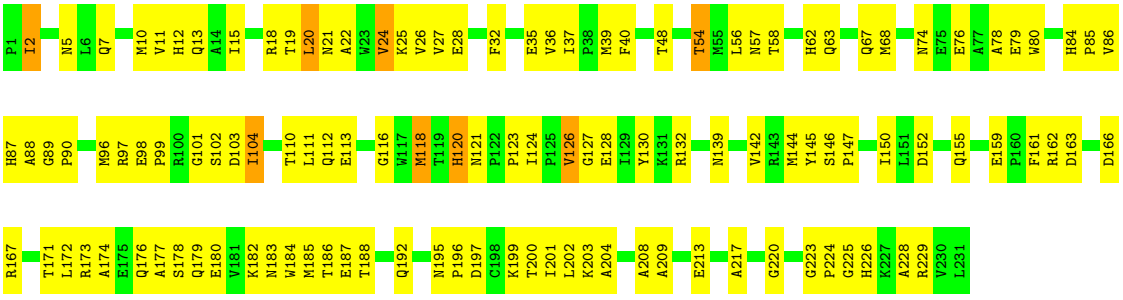


• Molecule 1: capsid protein

Chain cw:

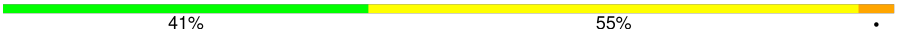
• Molecule 1: capsid protein

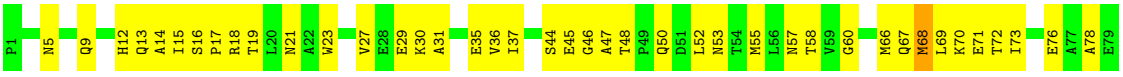
Chain cx:

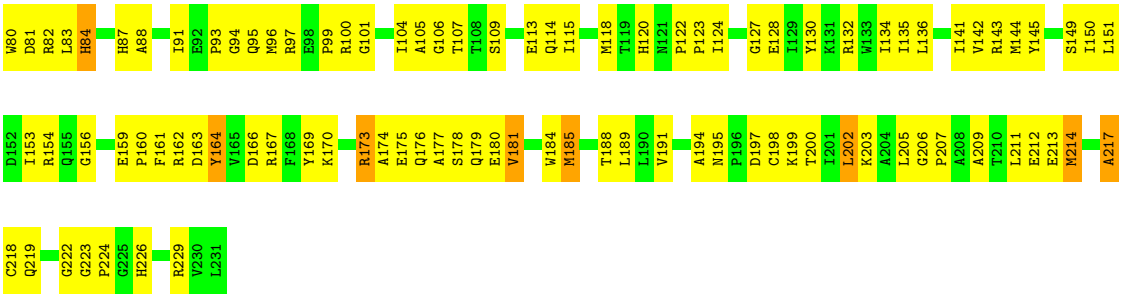


• Molecule 1: capsid protein

Chain cy:

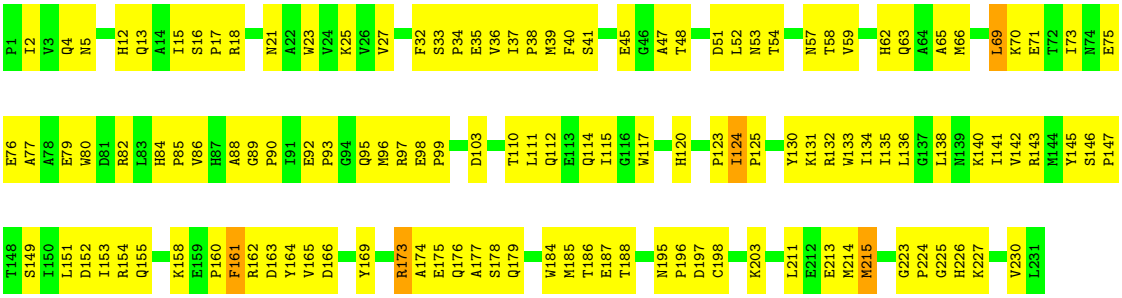






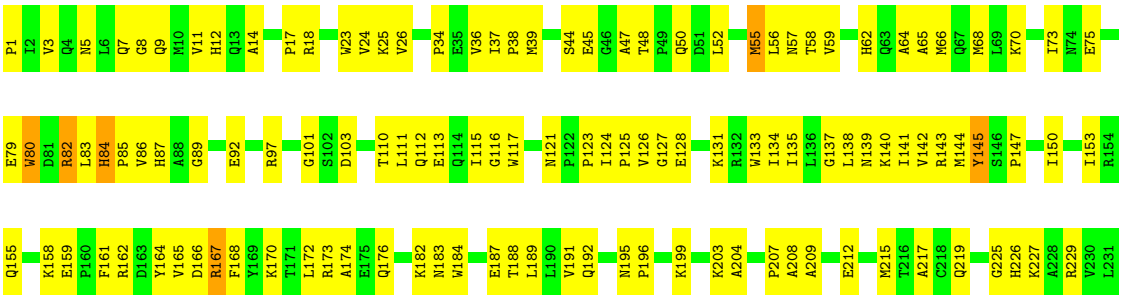
• Molecule 1: capsid protein

Chain cz:



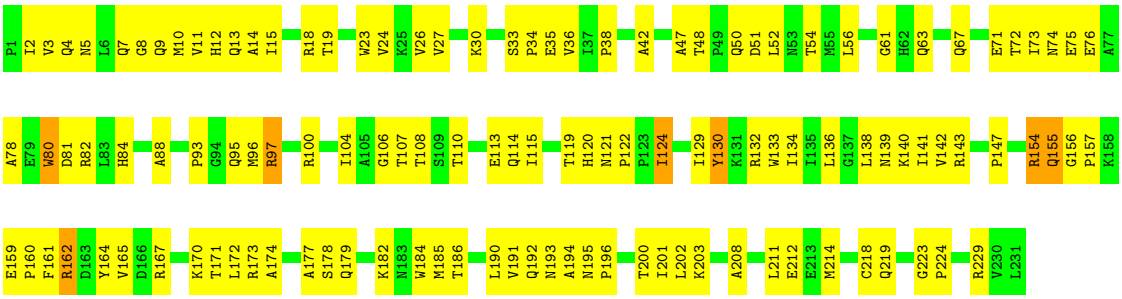
• Molecule 1: capsid protein

Chain 1f:



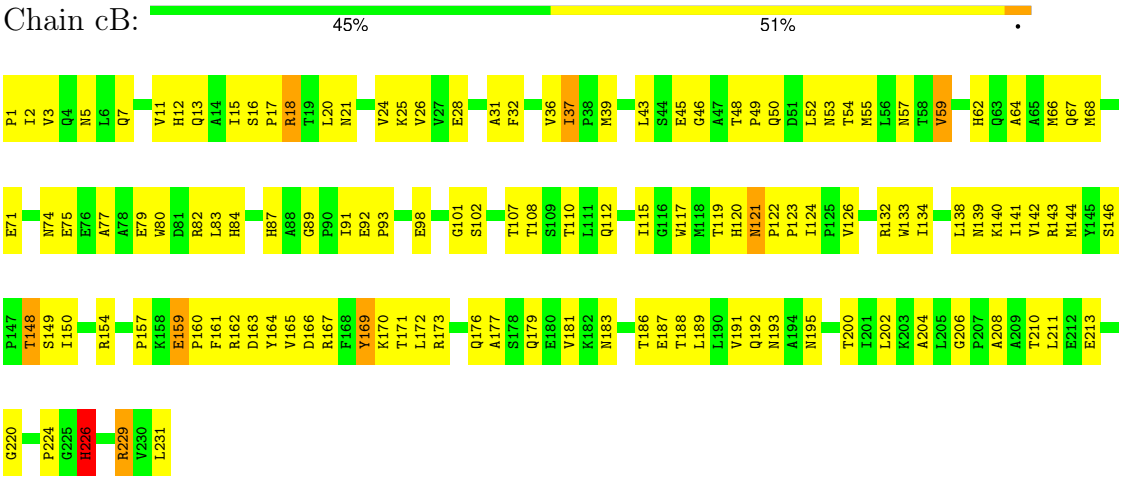
• Molecule 1: capsid protein

Chain cA:



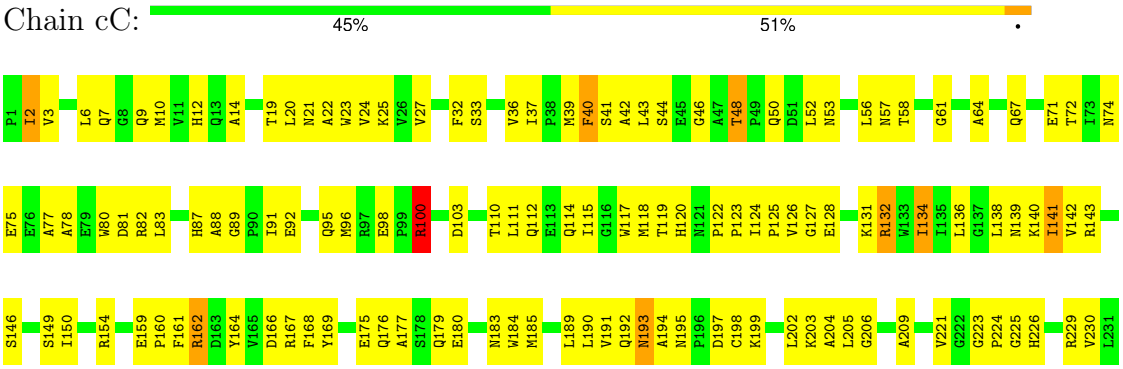
• Molecule 1: capsid protein

Chain cB:



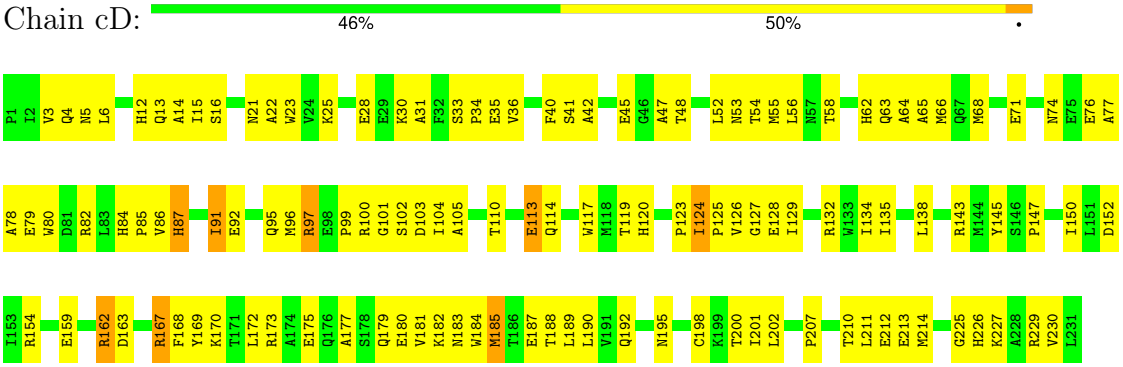
• Molecule 1: capsid protein

Chain cC:



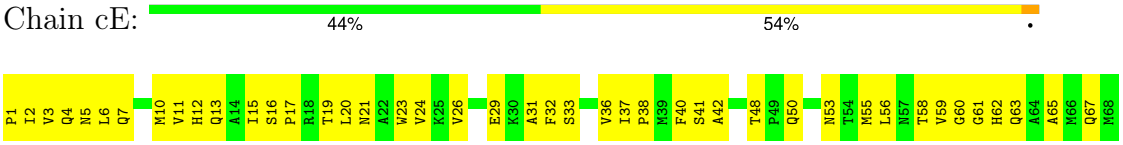
• Molecule 1: capsid protein

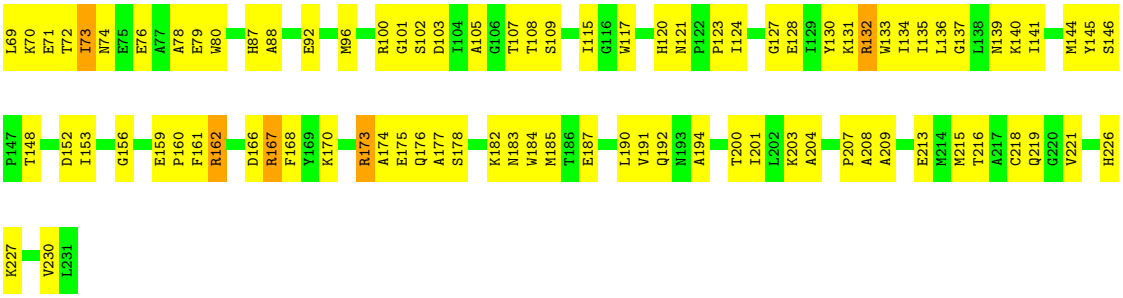
Chain cD:



• Molecule 1: capsid protein

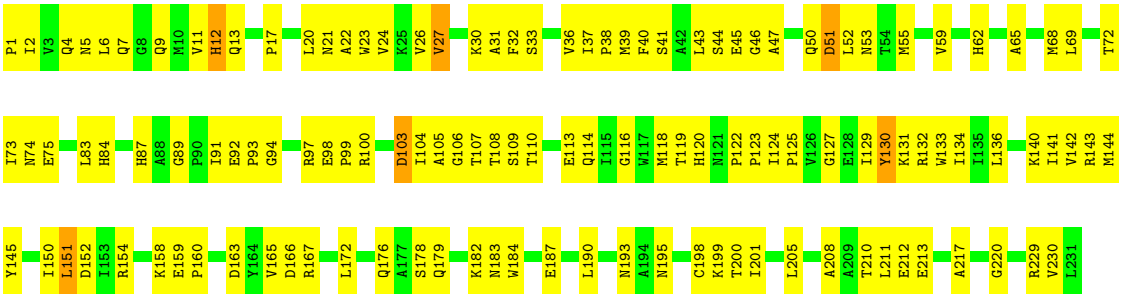
Chain cE:





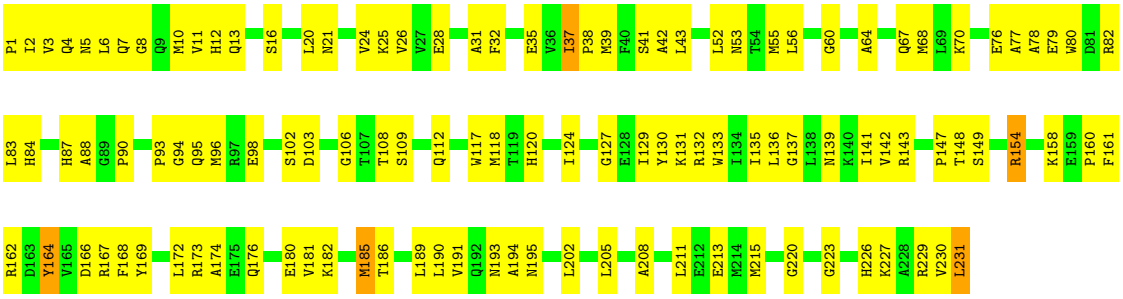
• Molecule 1: capsid protein

Chain cF:



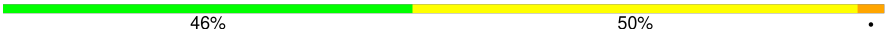
• Molecule 1: capsid protein

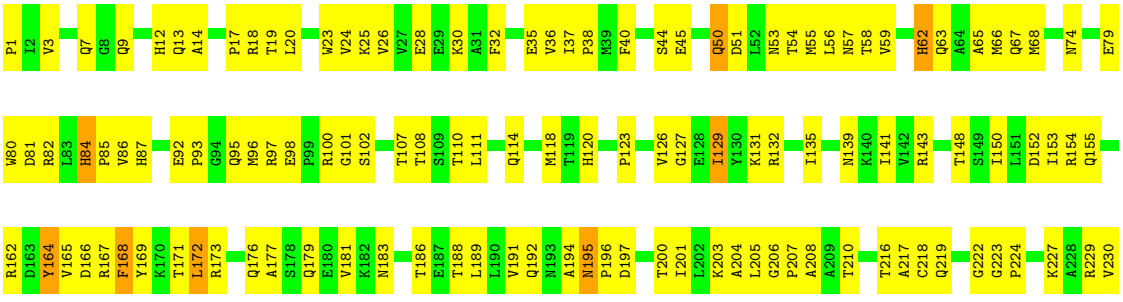
Chain cG:



• Molecule 1: capsid protein

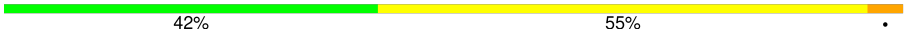
Chain cH:





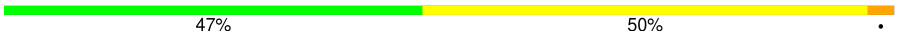
• Molecule 1: capsid protein

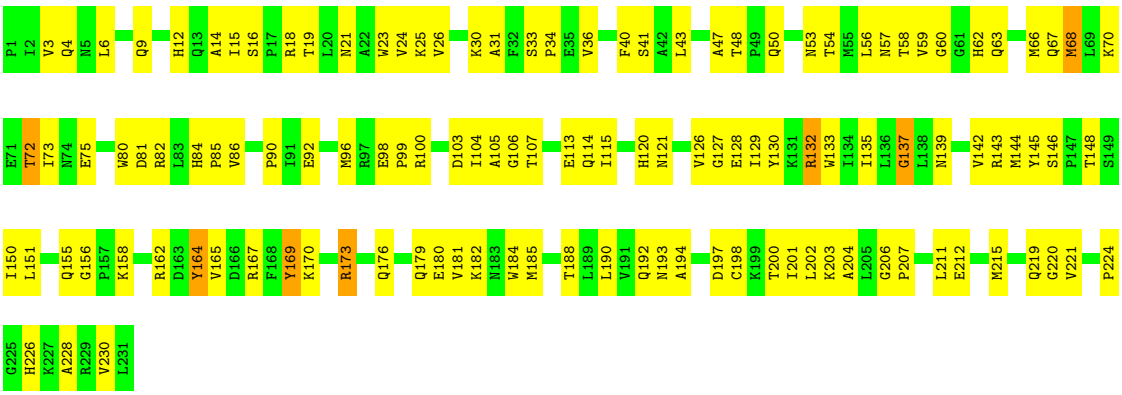
Chain cI:



• Molecule 1: capsid protein

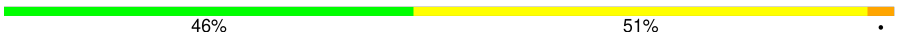
Chain cJ:

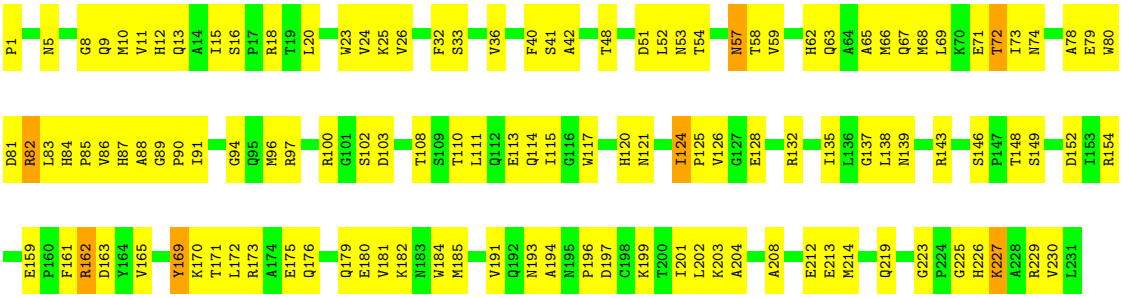




• Molecule 1: capsid protein

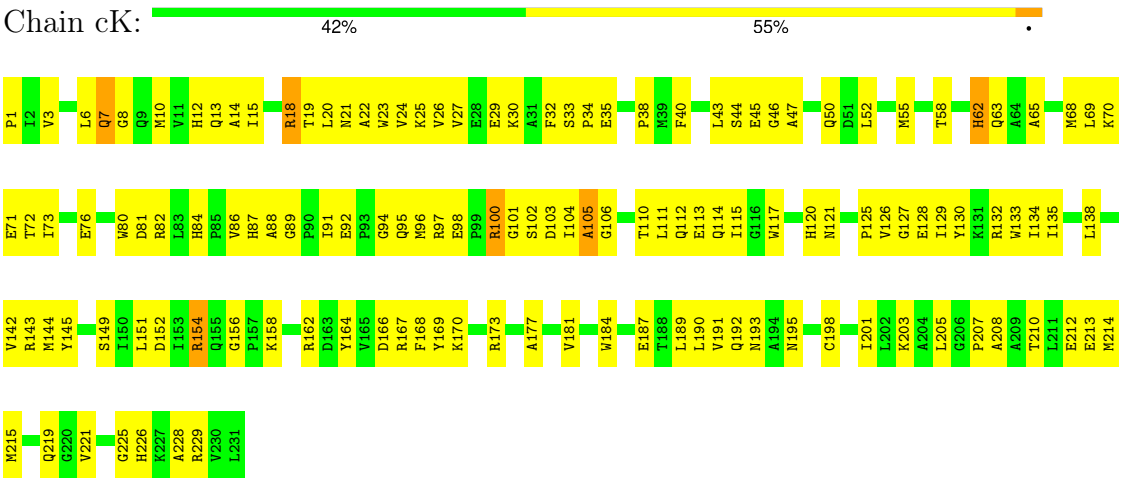
Chain 1g:





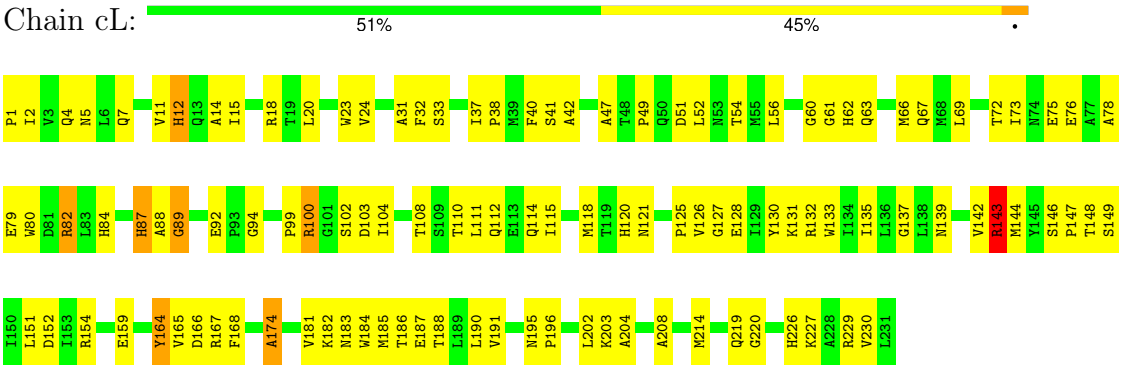
• Molecule 1: capsid protein

Chain cK:



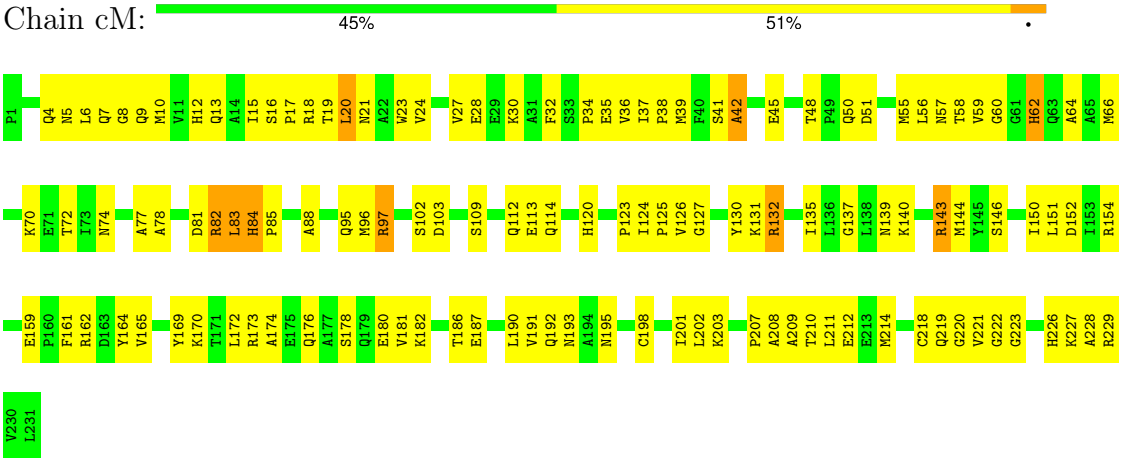
• Molecule 1: capsid protein

Chain cL:



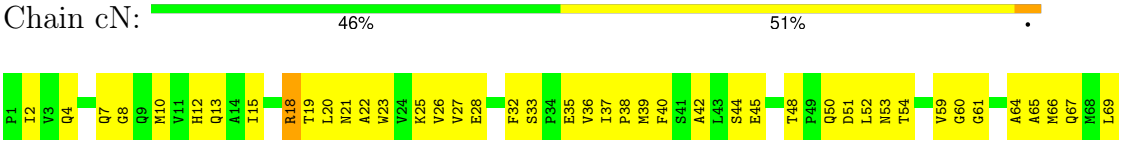
• Molecule 1: capsid protein

Chain cM:



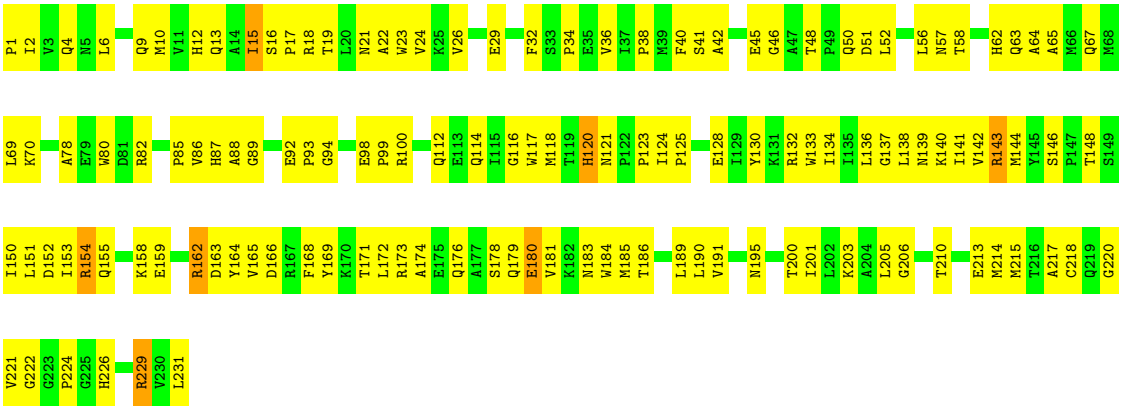
• Molecule 1: capsid protein

Chain cN:



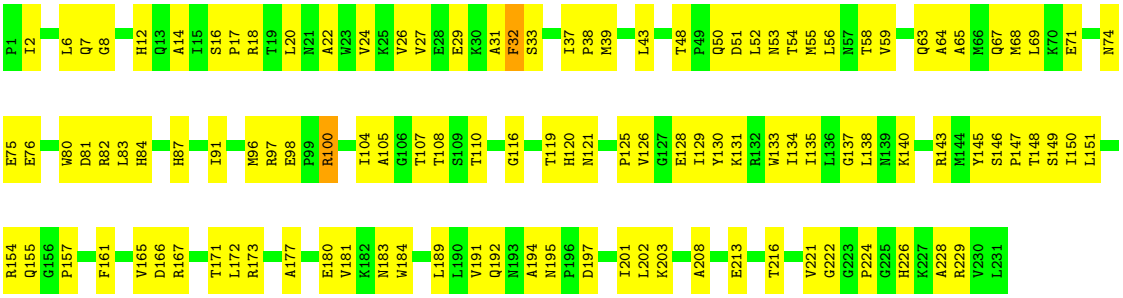
• Molecule 1: capsid protein

Chain cO:



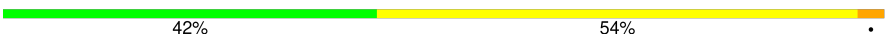
• Molecule 1: capsid protein

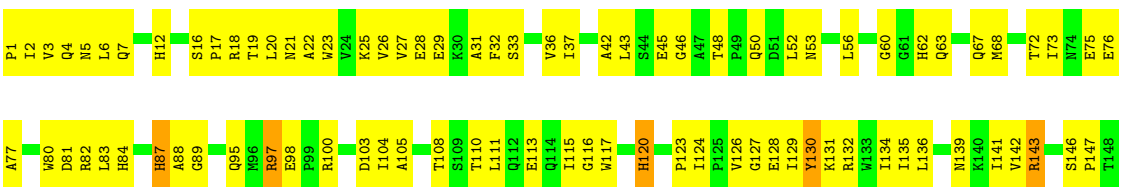
Chain cP:

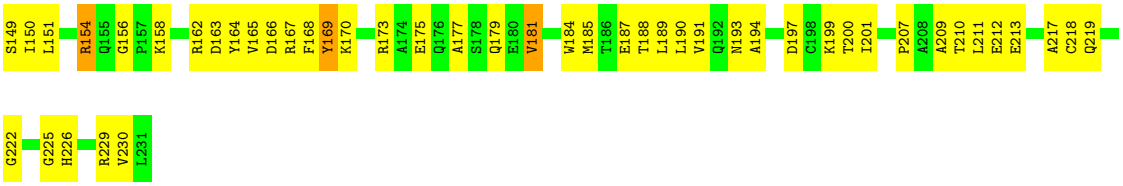


• Molecule 1: capsid protein

Chain cQ:

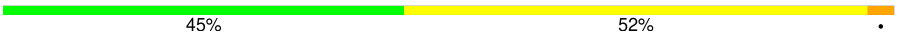


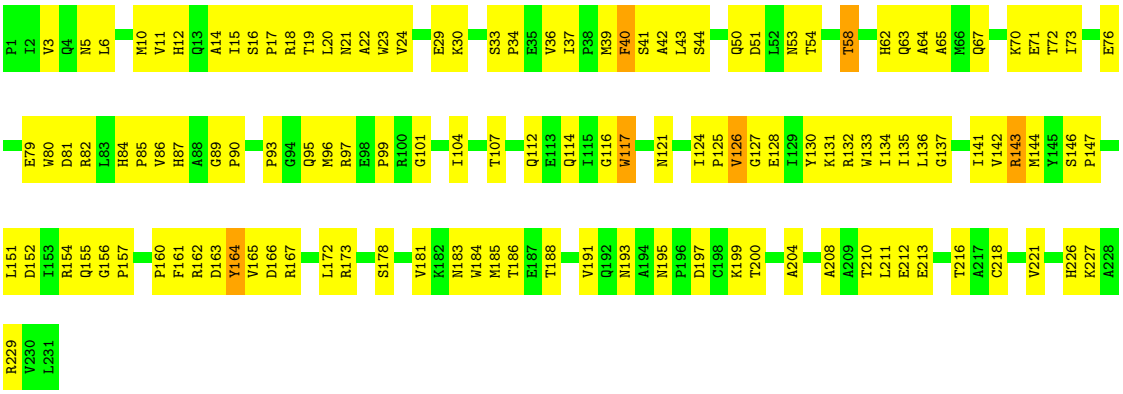




• Molecule 1: capsid protein

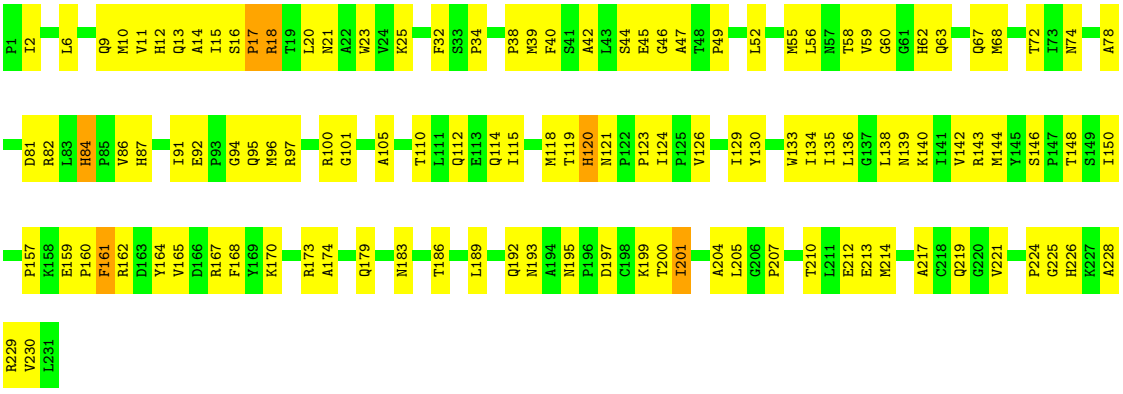
Chain cR:





• Molecule 1: capsid protein

Chain cS:

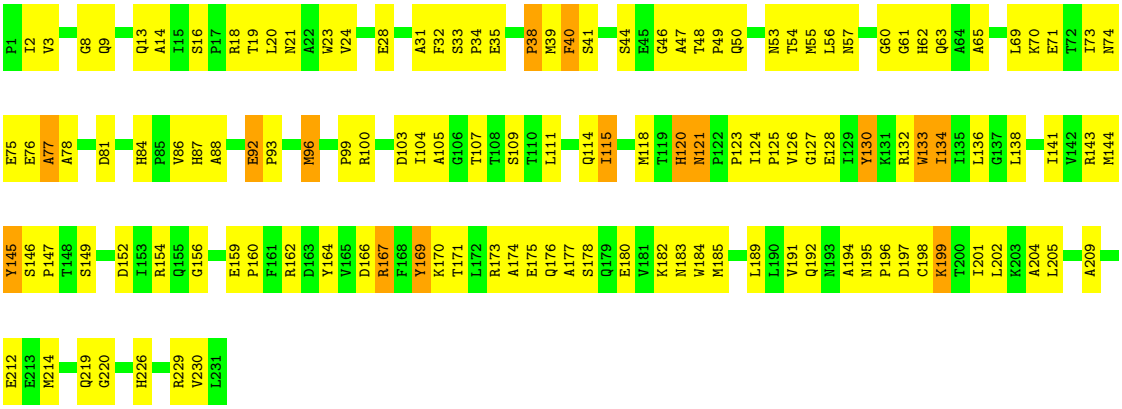


• Molecule 1: capsid protein

Chain cT:

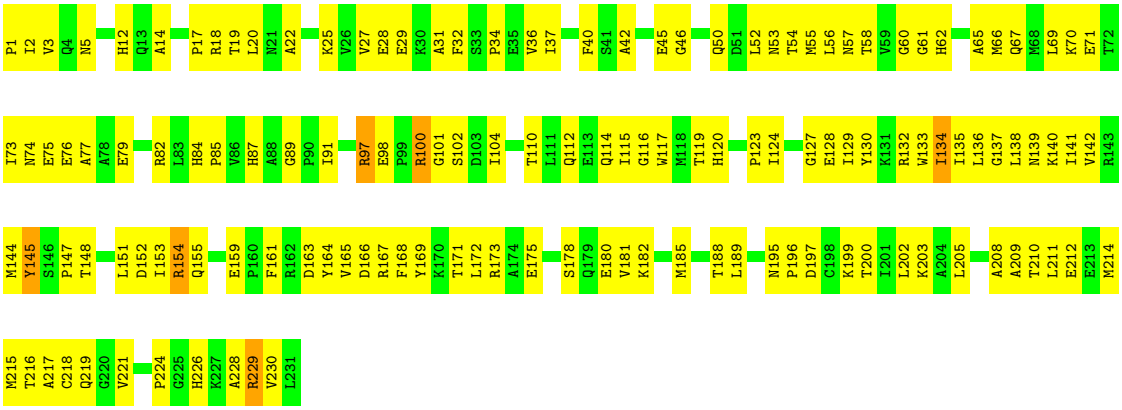
• Molecule 1: capsid protein

Chain 1h:



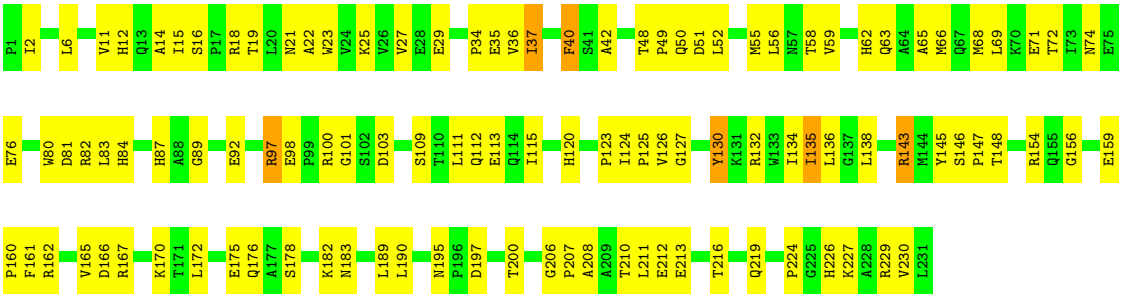
• Molecule 1: capsid protein

Chain cU:



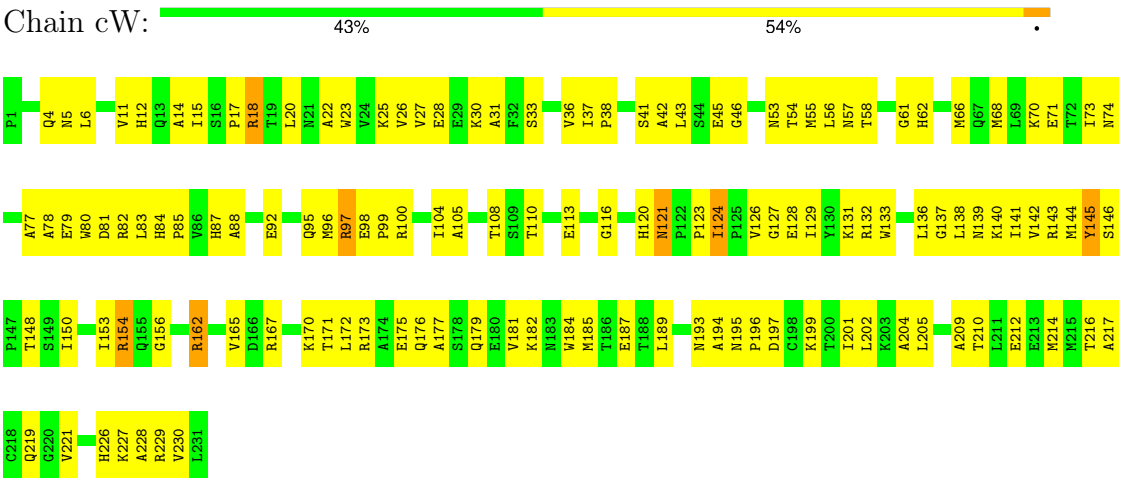
• Molecule 1: capsid protein

Chain cV:



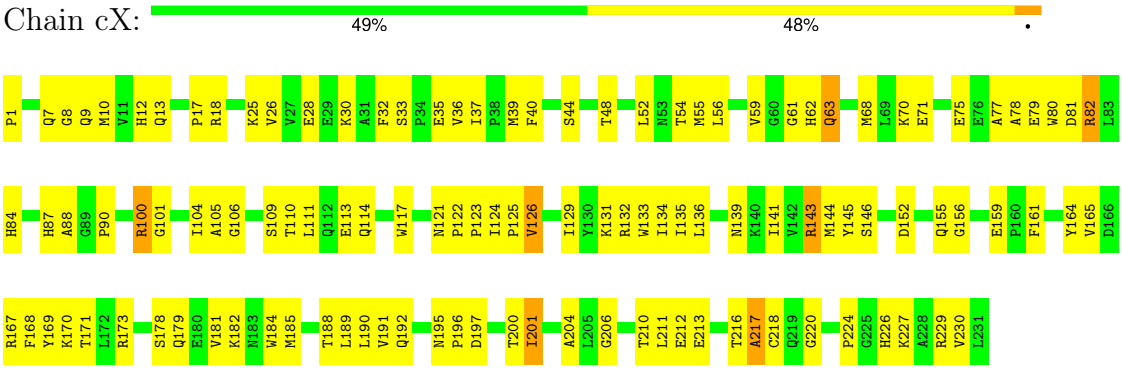
• Molecule 1: capsid protein

Chain cW:



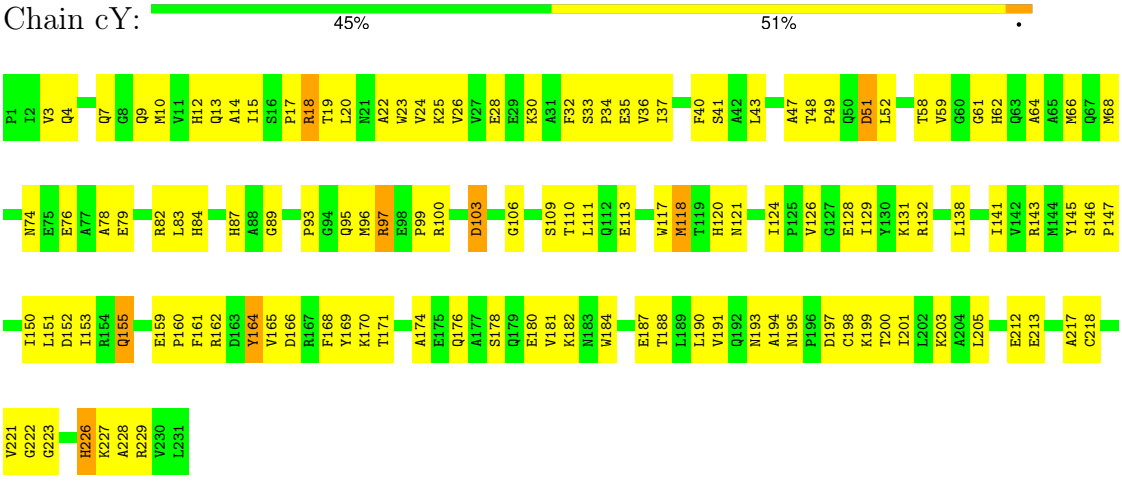
• Molecule 1: capsid protein

Chain cX:



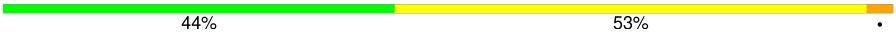
• Molecule 1: capsid protein

Chain cY:



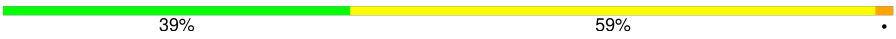
• Molecule 1: capsid protein

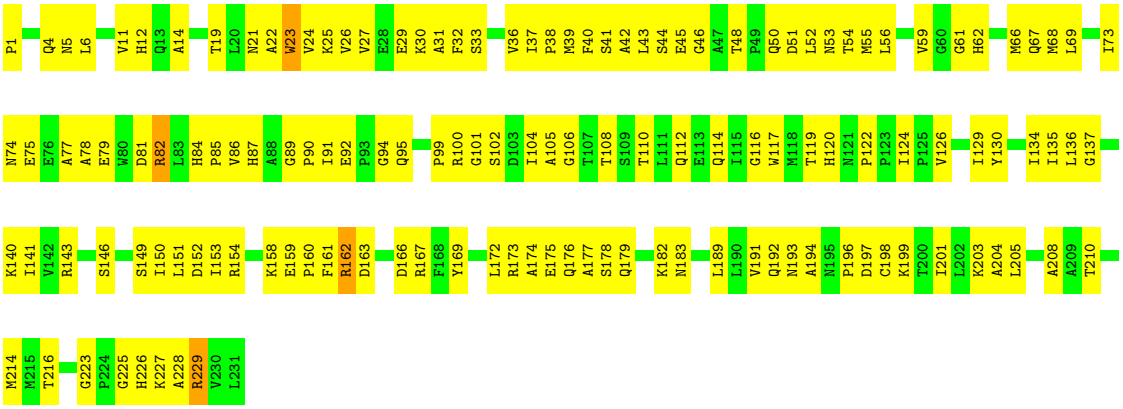
Chain cZ:



• Molecule 1: capsid protein

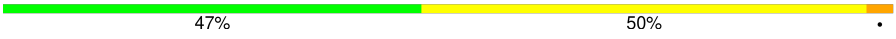
Chain d0:

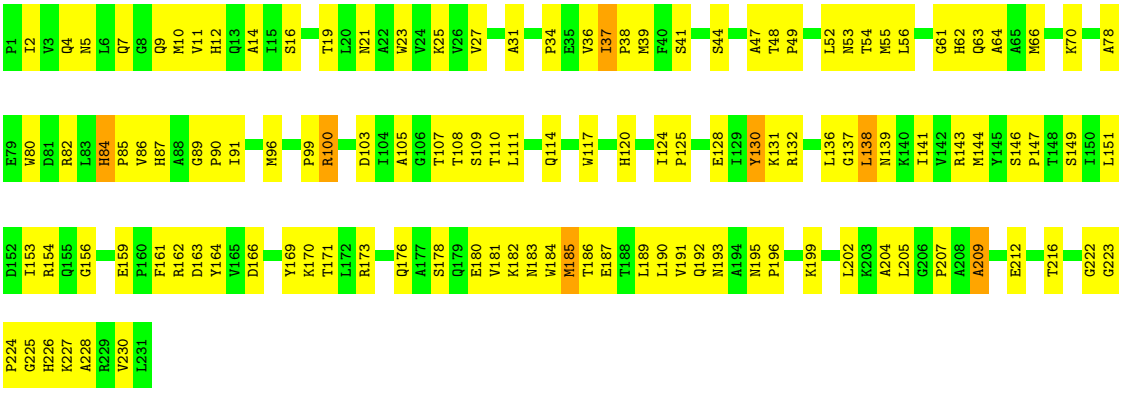




• Molecule 1: capsid protein

Chain d1:



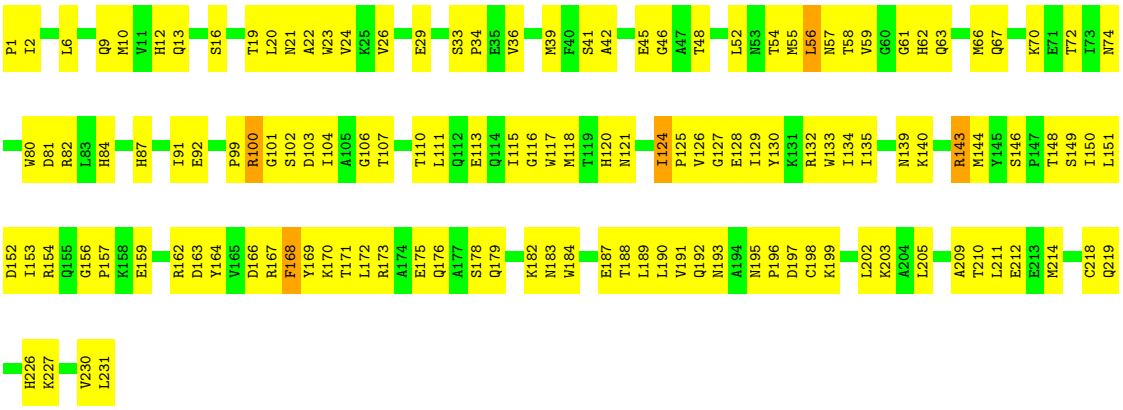


• Molecule 1: capsid protein

Chain d2:

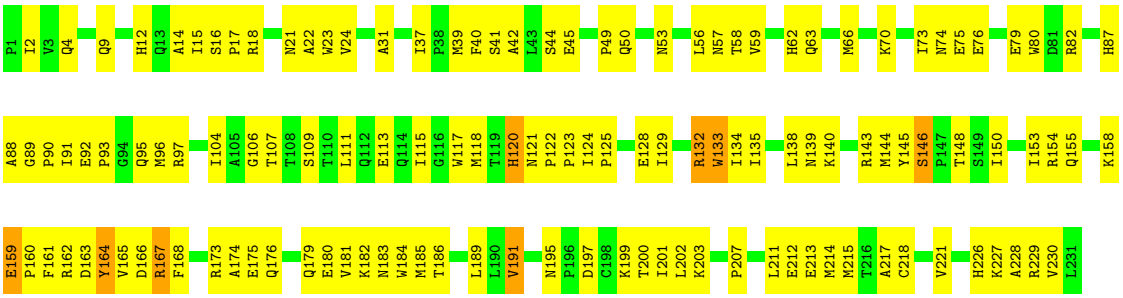
• Molecule 1: capsid protein

Chain d3:



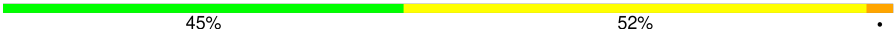
• Molecule 1: capsid protein

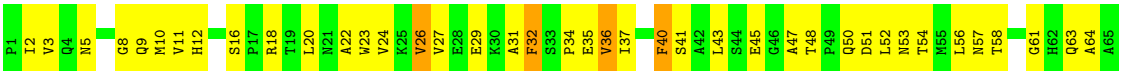
Chain 1i:

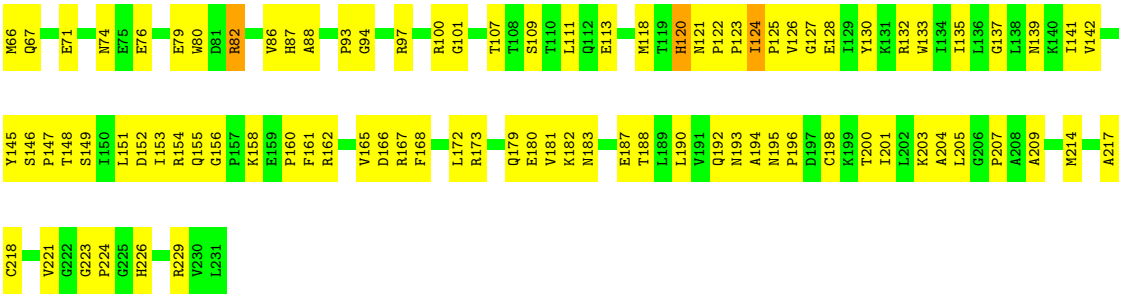


• Molecule 1: capsid protein

Chain d4:





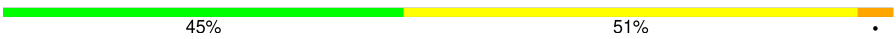


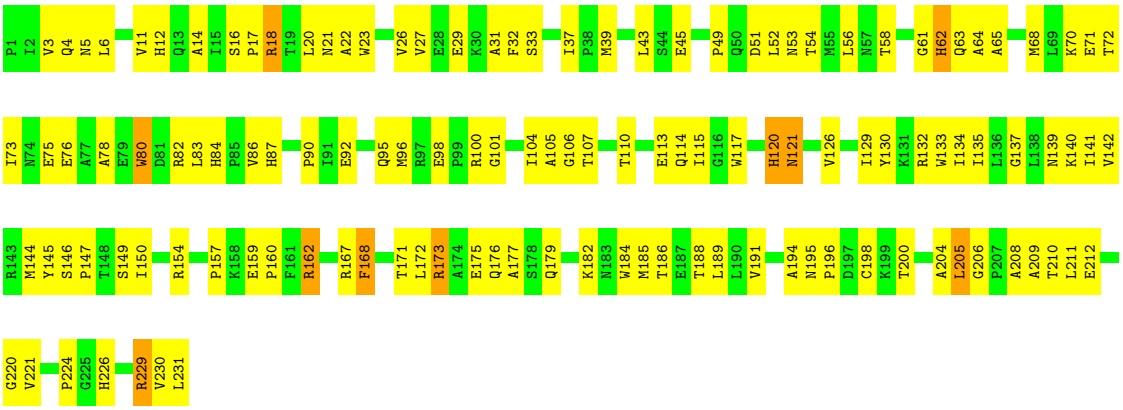
• Molecule 1: capsid protein

Chain d5:

• Molecule 1: capsid protein

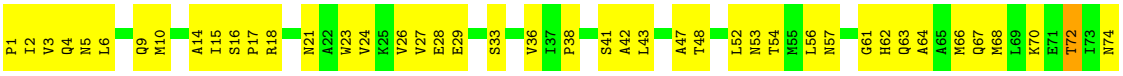
Chain d6:

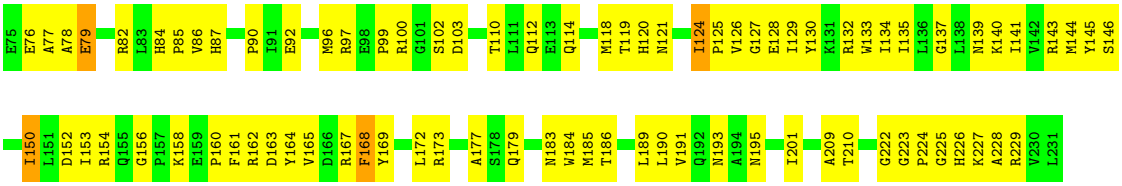




• Molecule 1: capsid protein

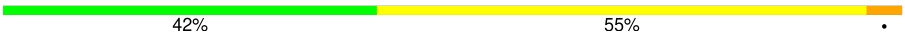
Chain d7:

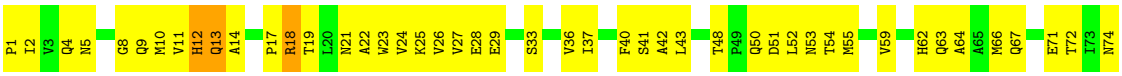


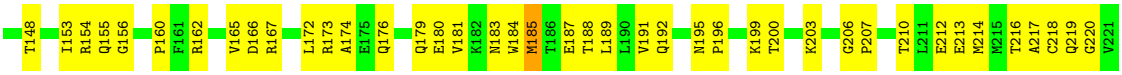


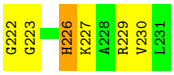
• Molecule 1: capsid protein

Chain d8:



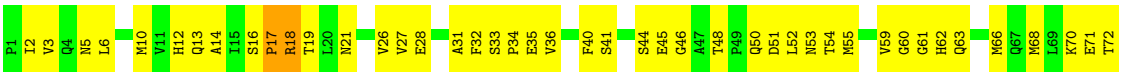


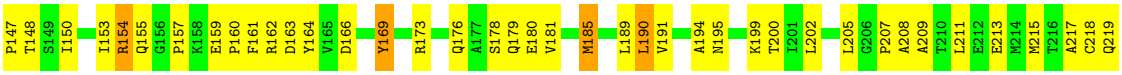


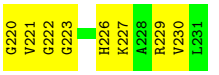


• Molecule 1: capsid protein

Chain d9:

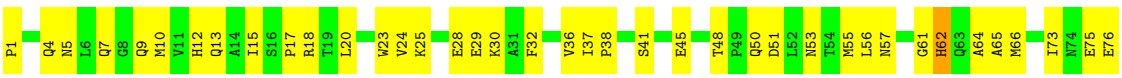


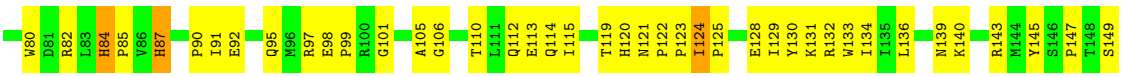


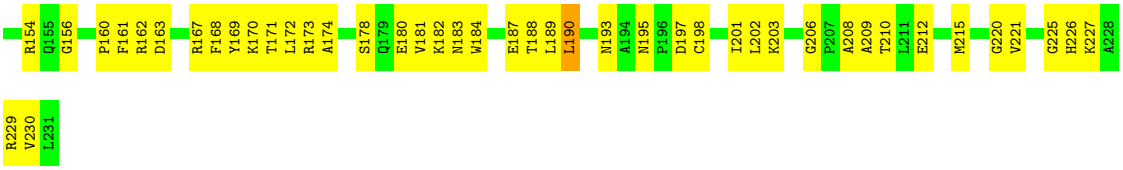


• Molecule 1: capsid protein

Chain da:





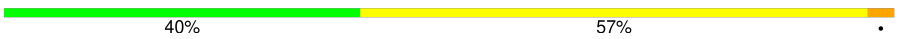


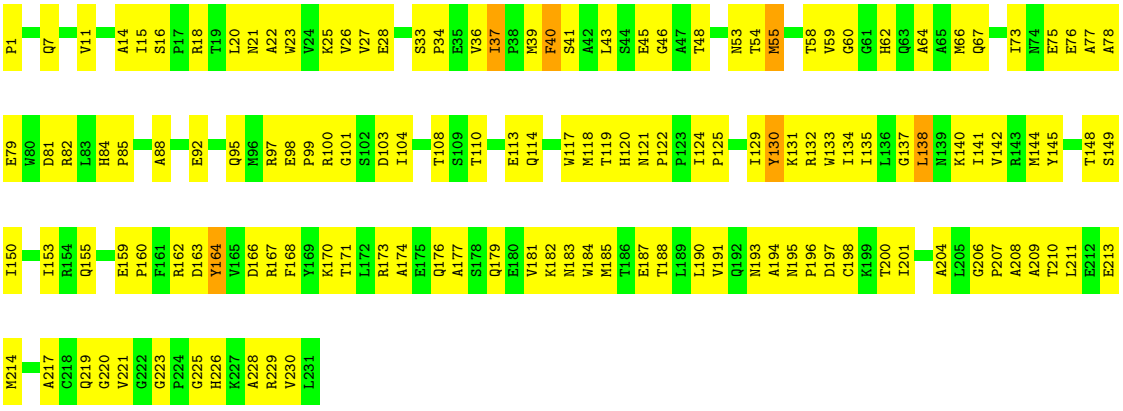
• Molecule 1: capsid protein

Chain db:

• Molecule 1: capsid protein

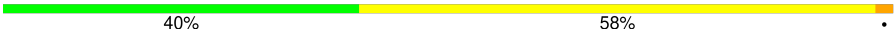
Chain dc:

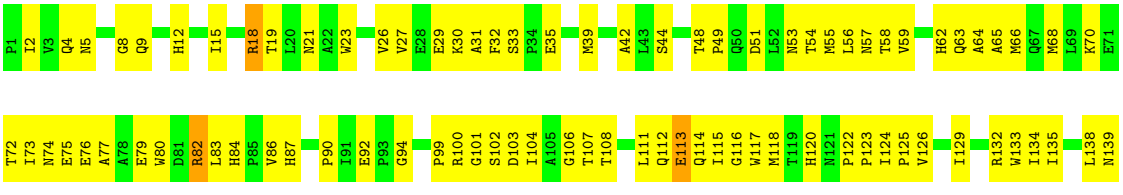


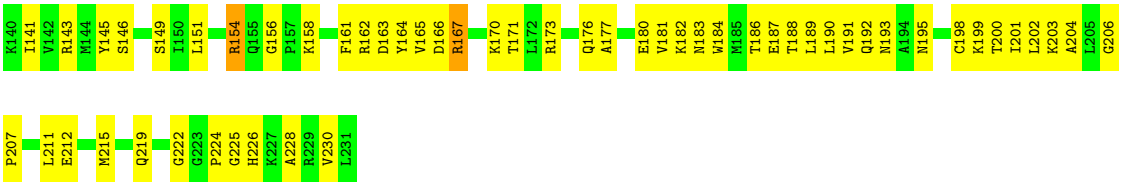


• Molecule 1: capsid protein

Chain dd:

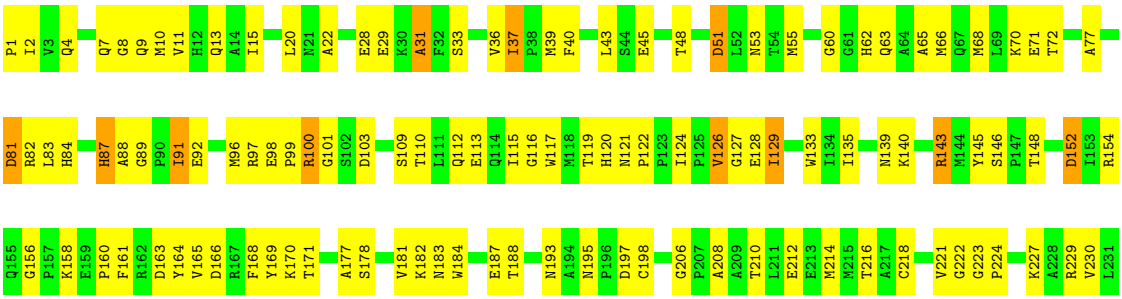






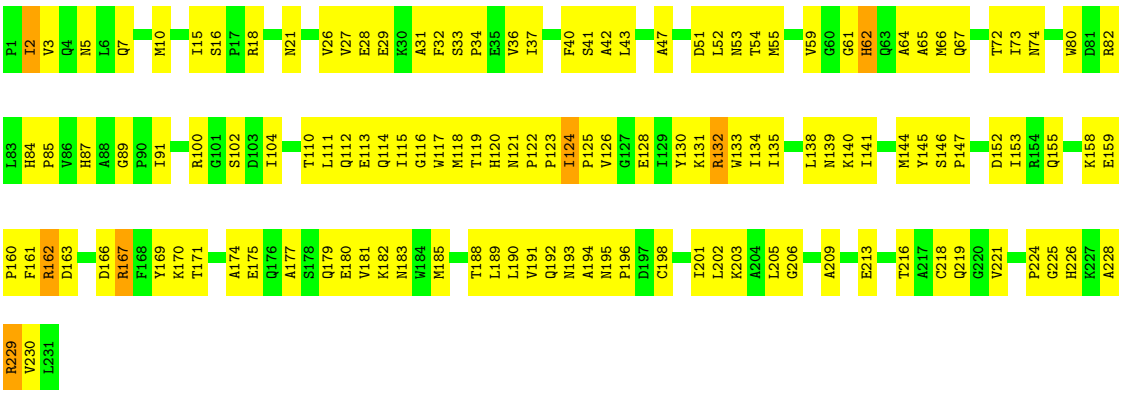
• Molecule 1: capsid protein

Chain 1j:



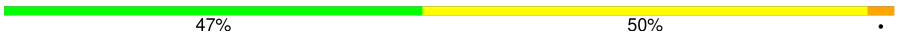
• Molecule 1: capsid protein

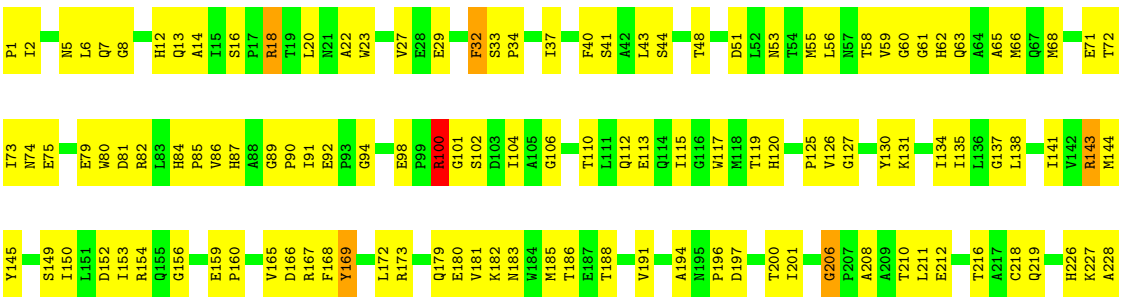
Chain de:



• Molecule 1: capsid protein

Chain df:



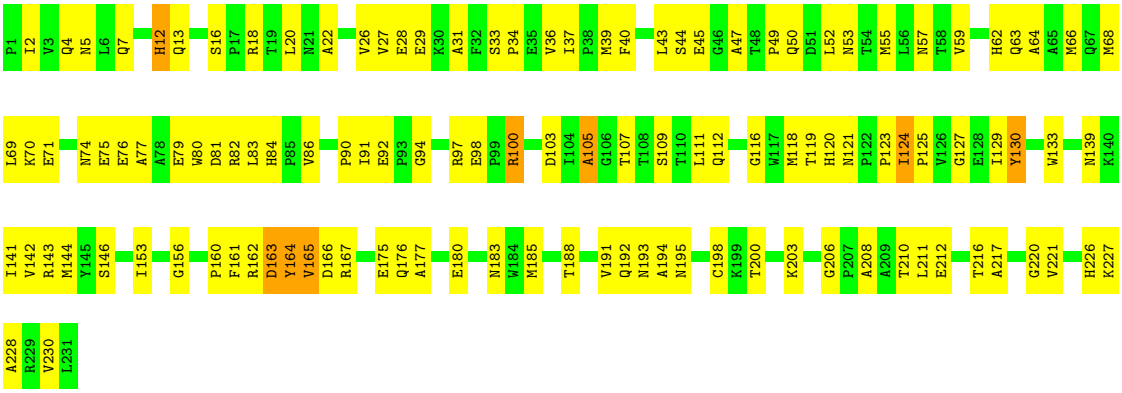


• Molecule 1: capsid protein

Chain dg:

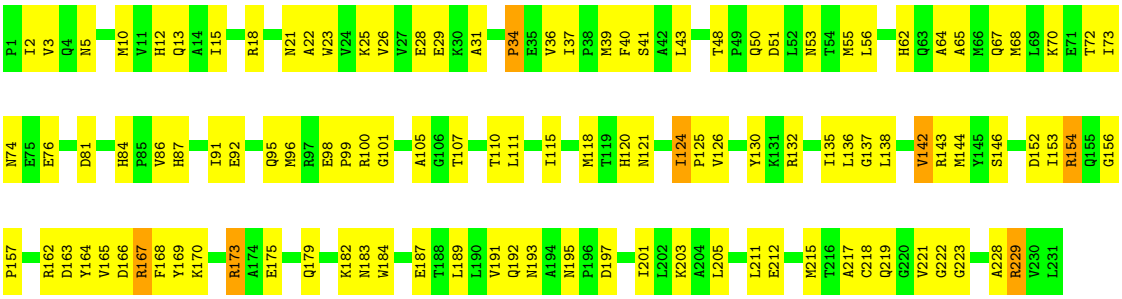
• Molecule 1: capsid protein

Chain dh:



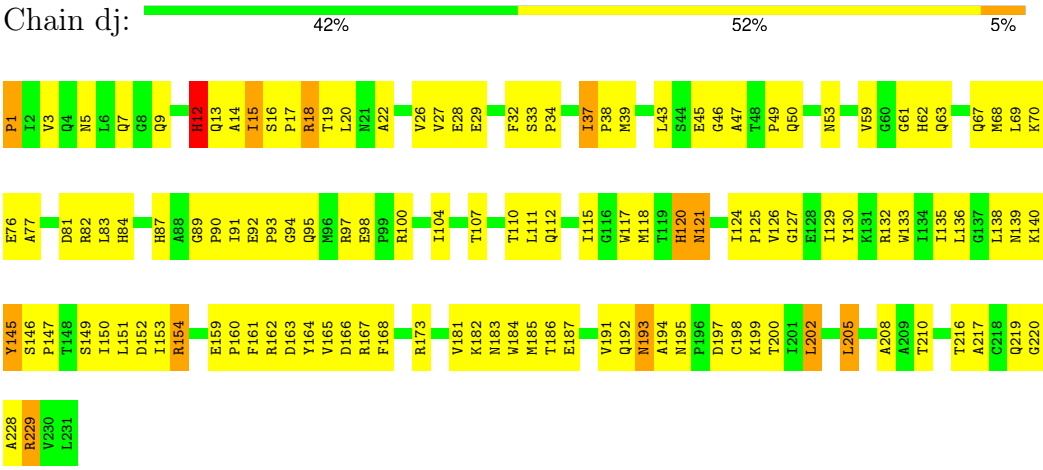
• Molecule 1: capsid protein

Chain di:



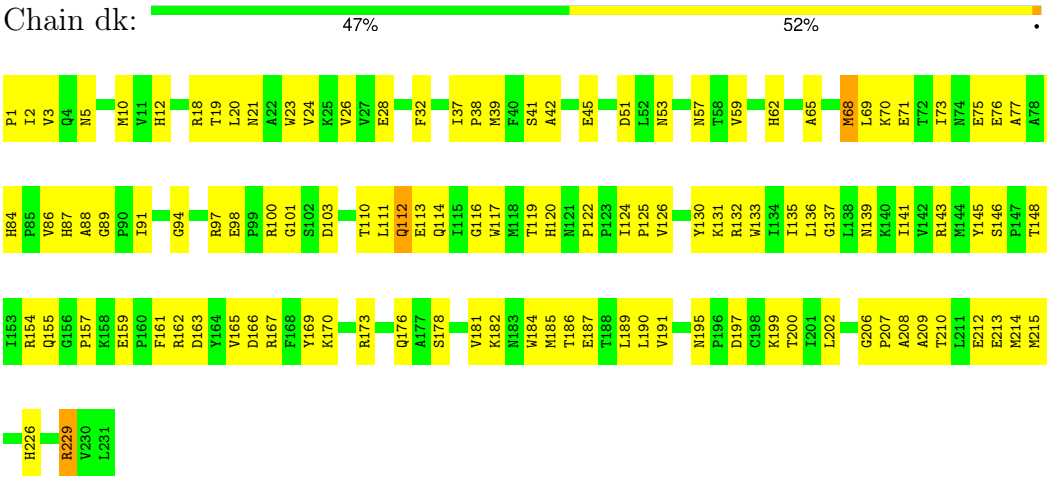
• Molecule 1: capsid protein

Chain dj:



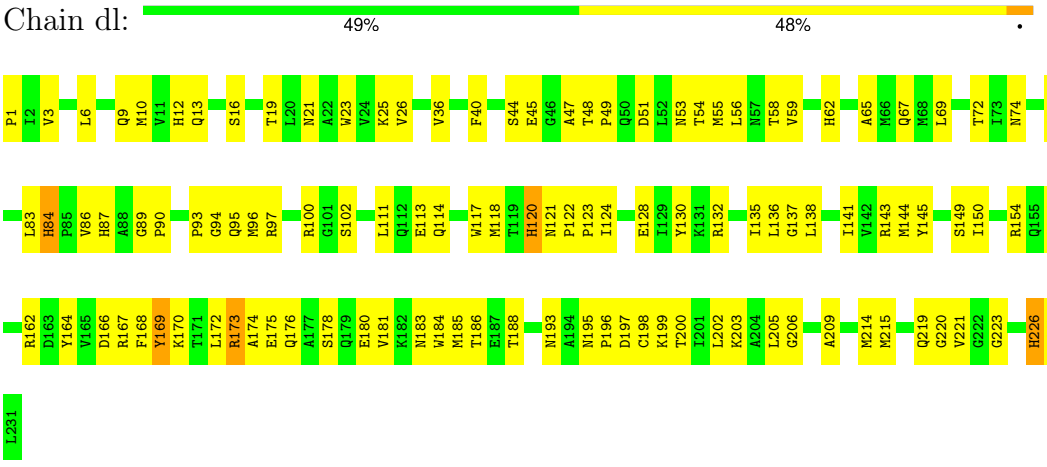
• Molecule 1: capsid protein

Chain dk:



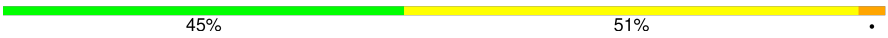
• Molecule 1: capsid protein

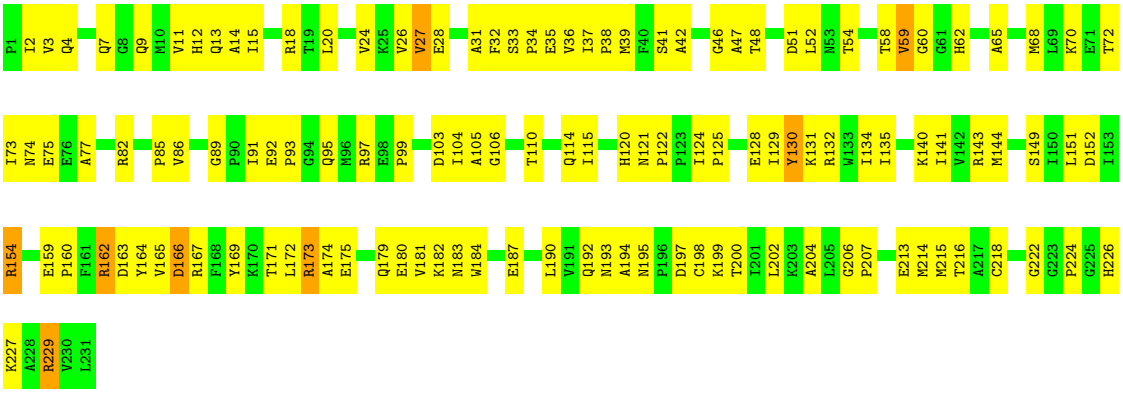
Chain dl:



• Molecule 1: capsid protein

Chain dm:



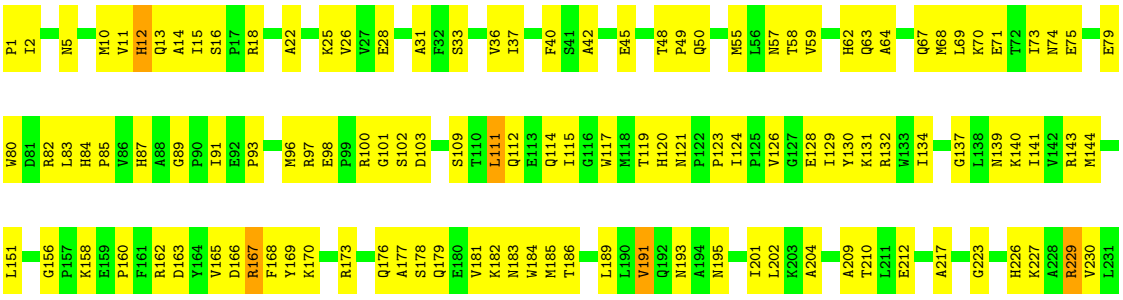


• Molecule 1: capsid protein

Chain dn:

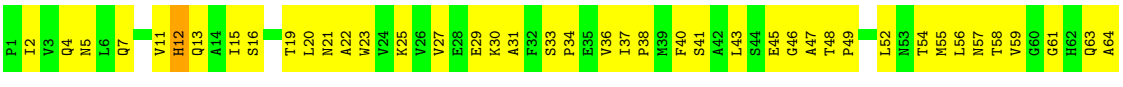
• Molecule 1: capsid protein

Chain 1k:



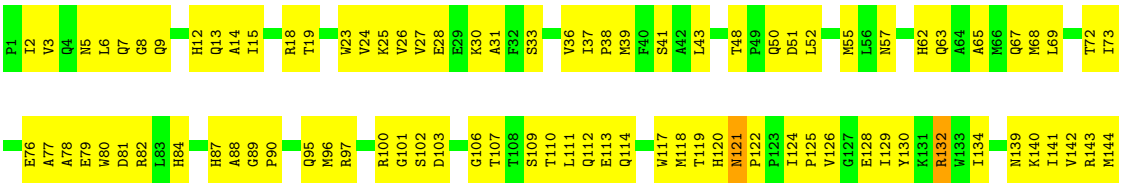
• Molecule 1: capsid protein

Chain do:



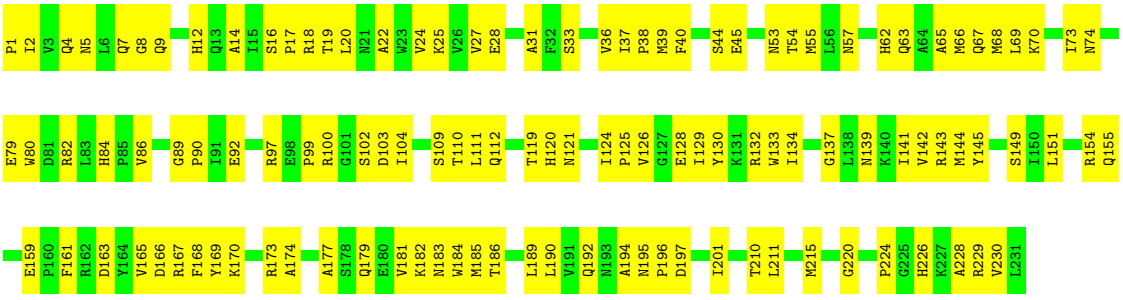
• Molecule 1: capsid protein

Chain dp:



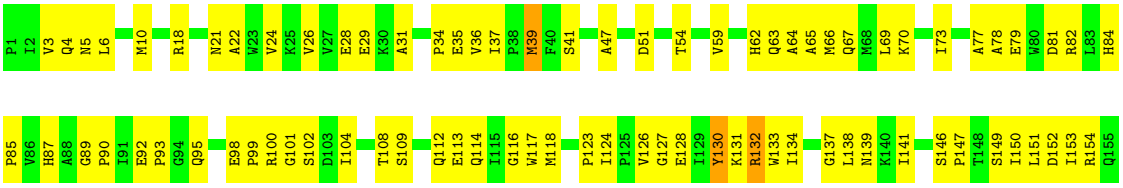
• Molecule 1: capsid protein

Chain dq:



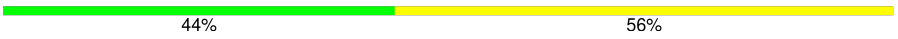
• Molecule 1: capsid protein

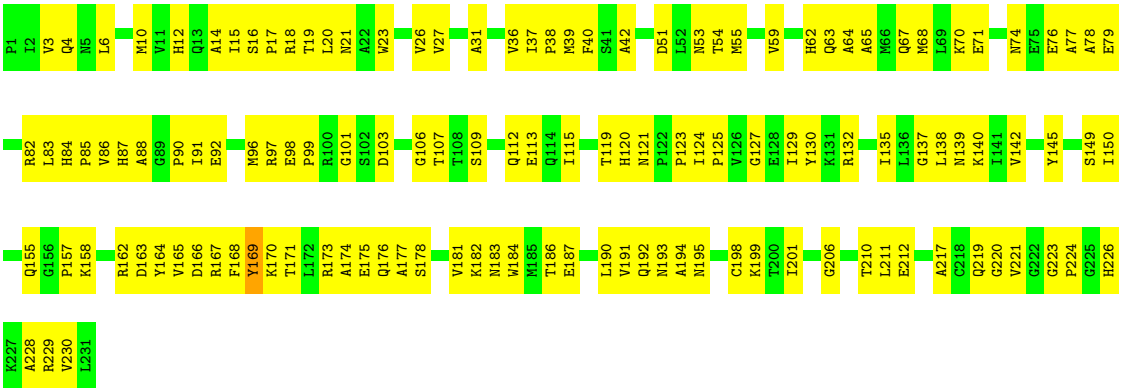
Chain dr:



• Molecule 1: capsid protein

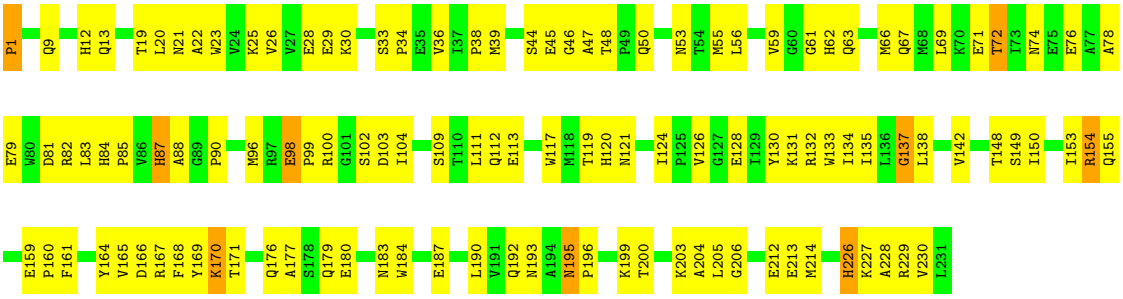
Chain ds:





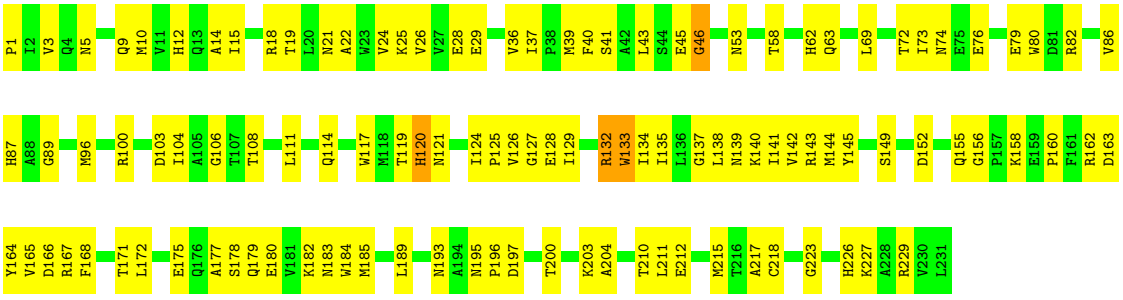
• Molecule 1: capsid protein

Chain dt:



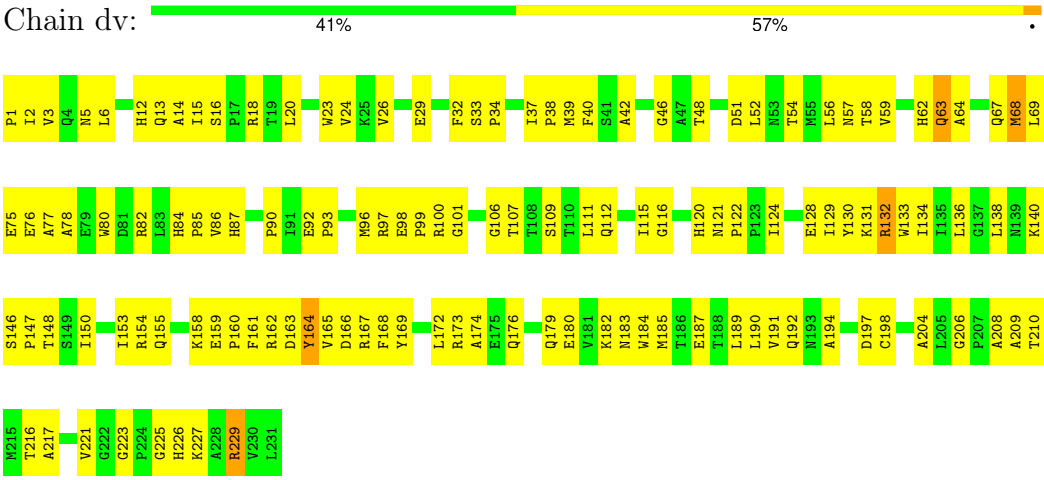
• Molecule 1: capsid protein

Chain du:



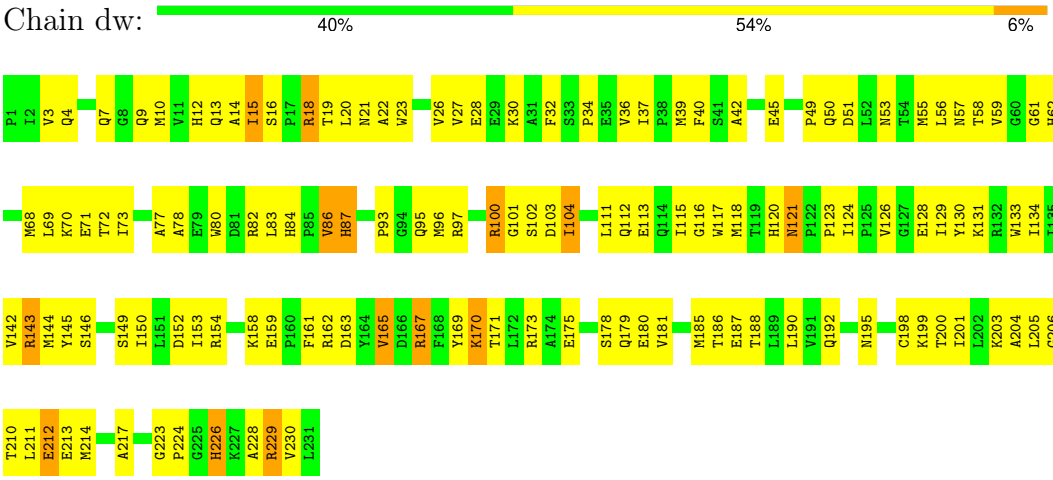
• Molecule 1: capsid protein

Chain dv:



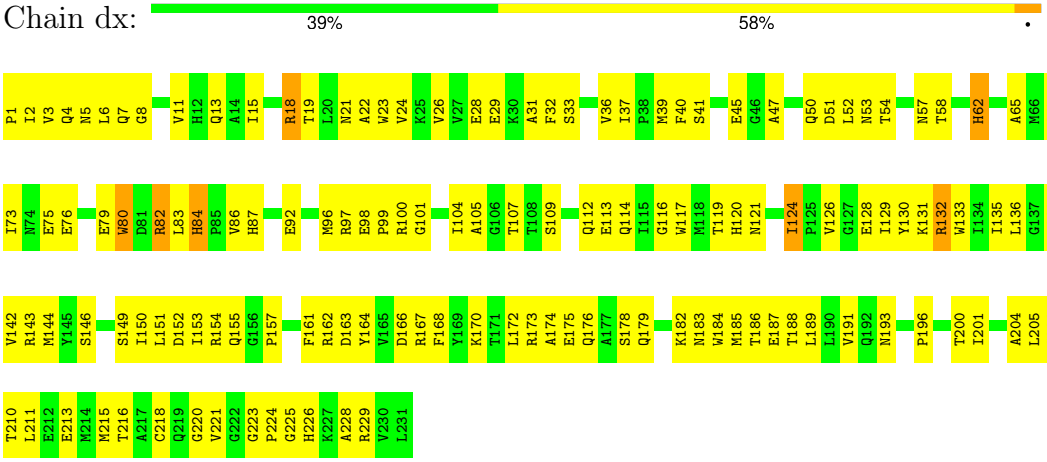
• Molecule 1: capsid protein

Chain dw:



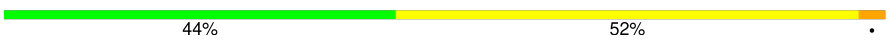
• Molecule 1: capsid protein

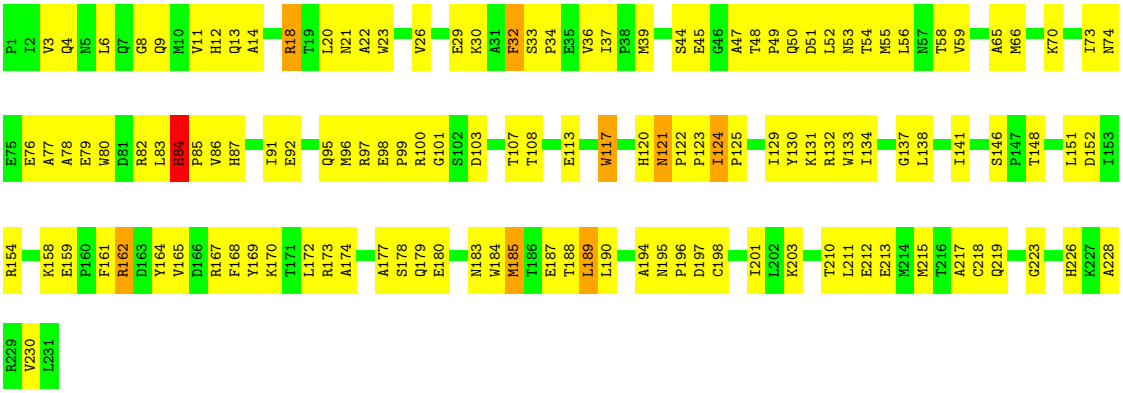
Chain dx:



• Molecule 1: capsid protein

Chain 1l:



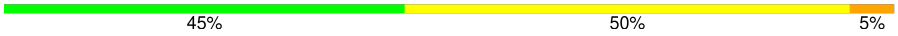


• Molecule 1: capsid protein

Chain dy:

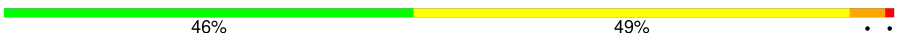
• Molecule 1: capsid protein

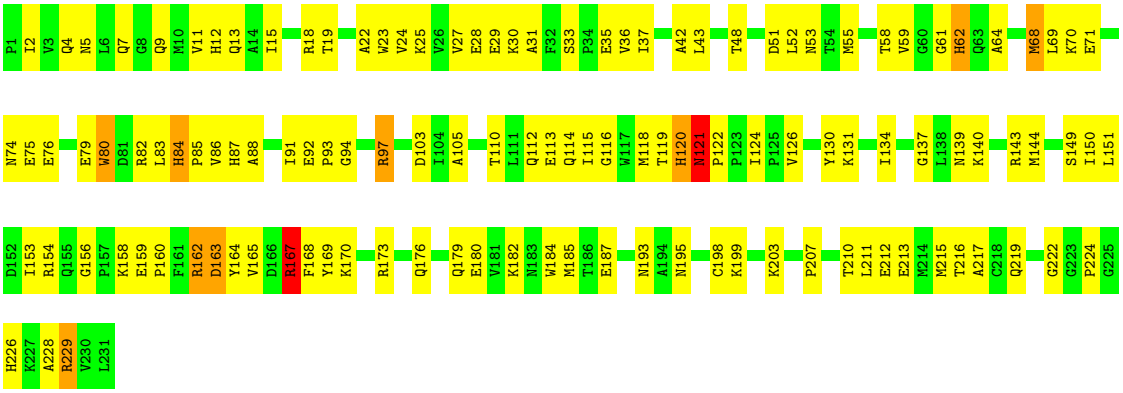
Chain dz:



• Molecule 1: capsid protein

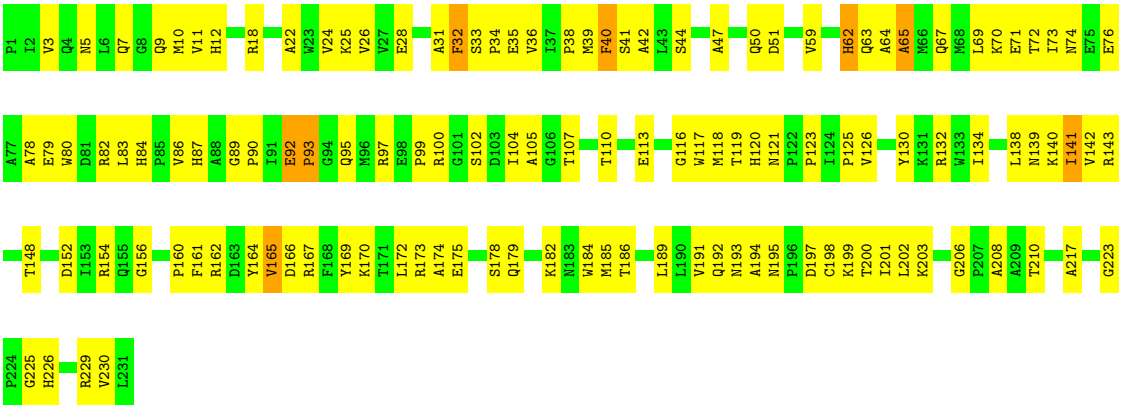
Chain dA:





• Molecule 1: capsid protein

Chain dB:



• Molecule 1: capsid protein

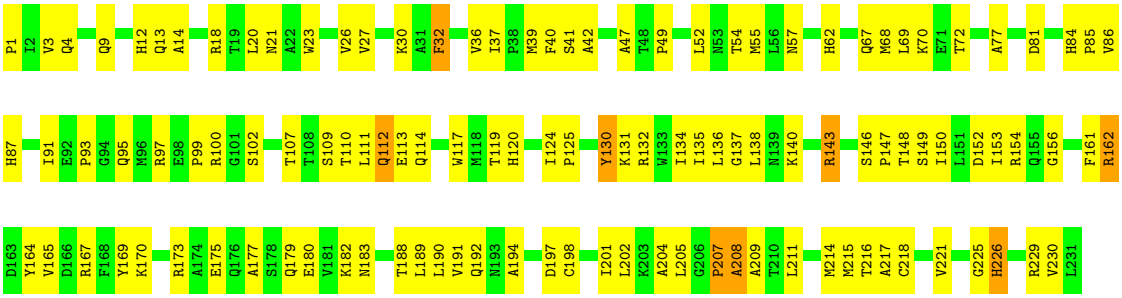
Chain dC:

• Molecule 1: capsid protein

Chain dD:

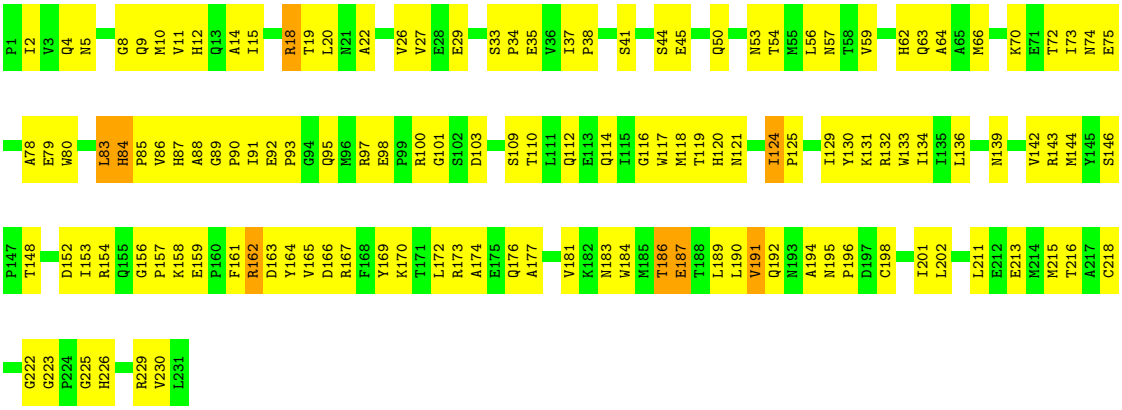
• Molecule 1: capsid protein

Chain dE:



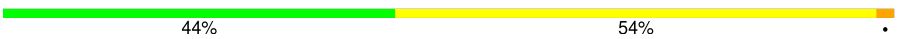
• Molecule 1: capsid protein

Chain dF:



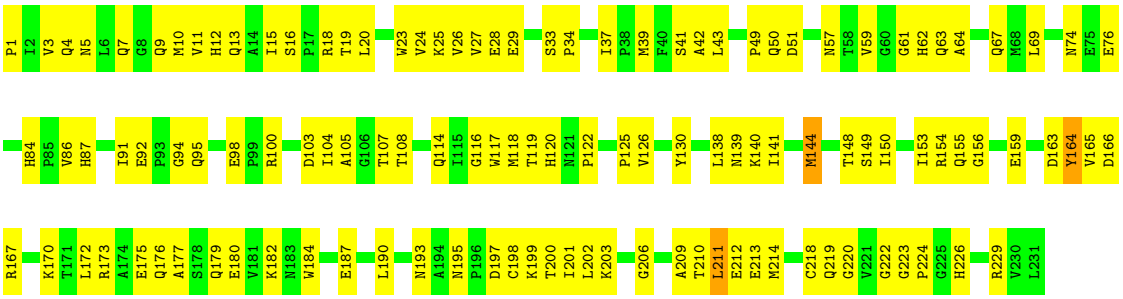
• Molecule 1: capsid protein

Chain dG:



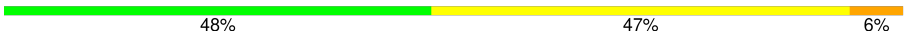
• Molecule 1: capsid protein

Chain dH:



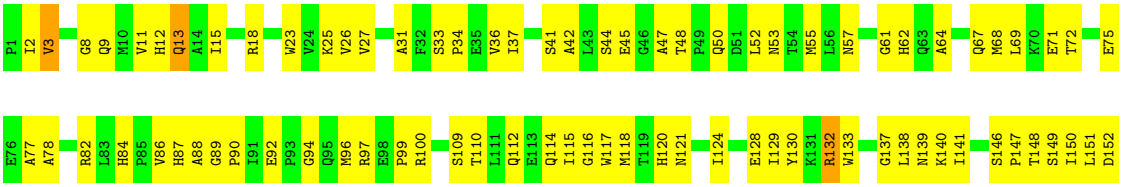
• Molecule 1: capsid protein

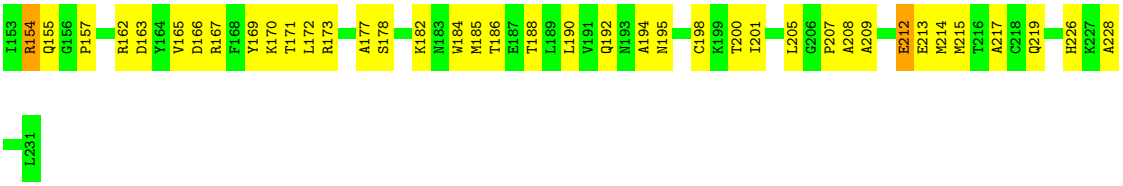
Chain 1m:



• Molecule 1: capsid protein

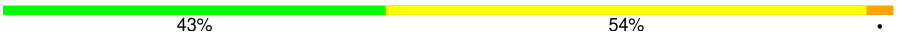
Chain dI:





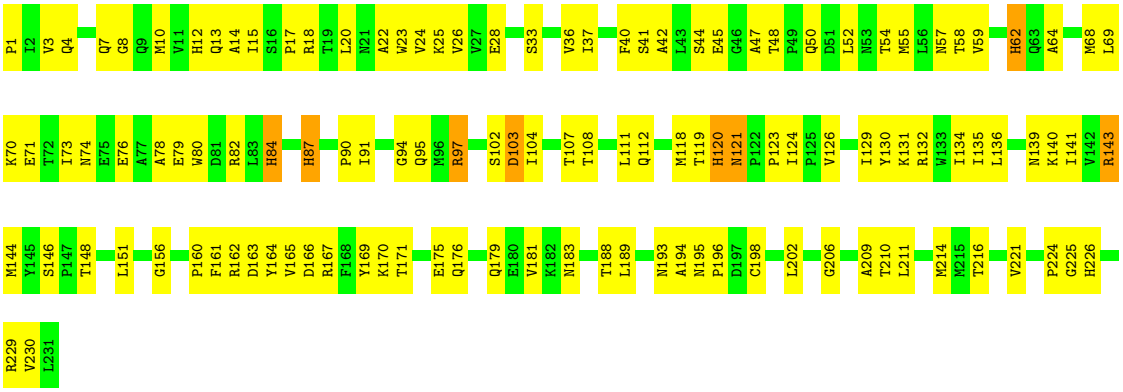
• Molecule 1: capsid protein

Chain dJ:



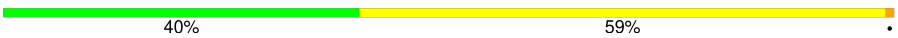
• Molecule 1: capsid protein

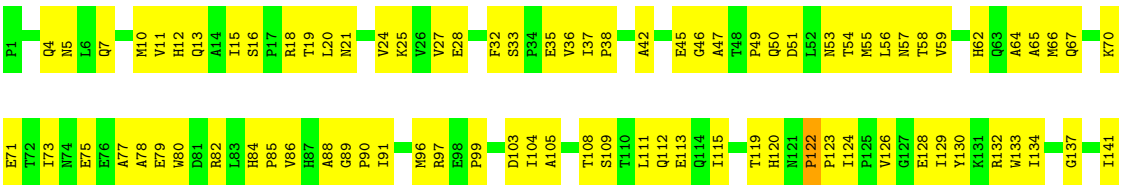
Chain dK:

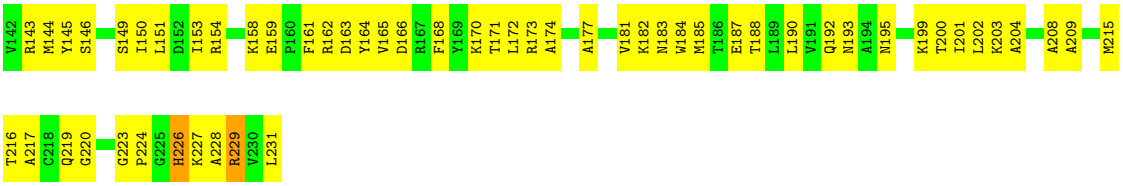


• Molecule 1: capsid protein

Chain dL:

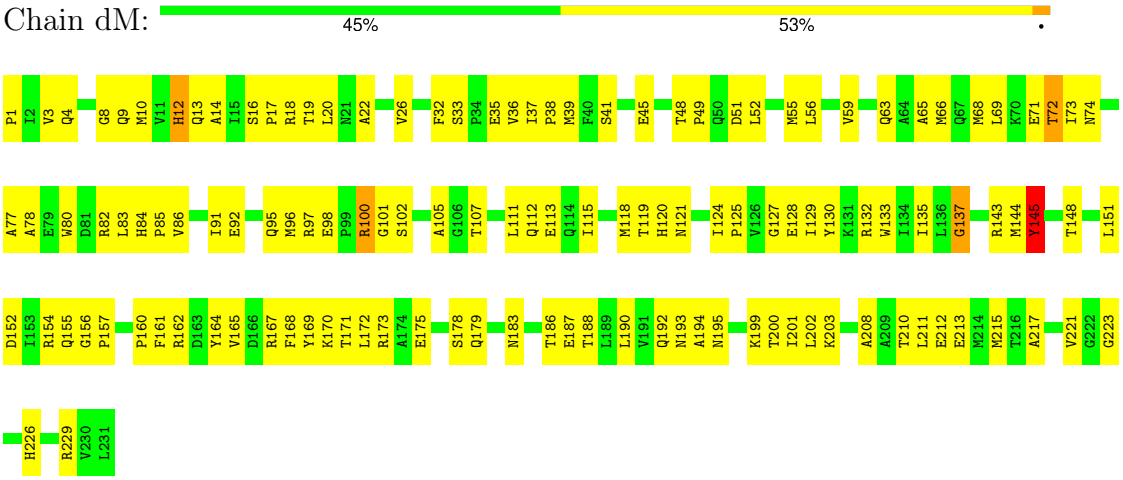






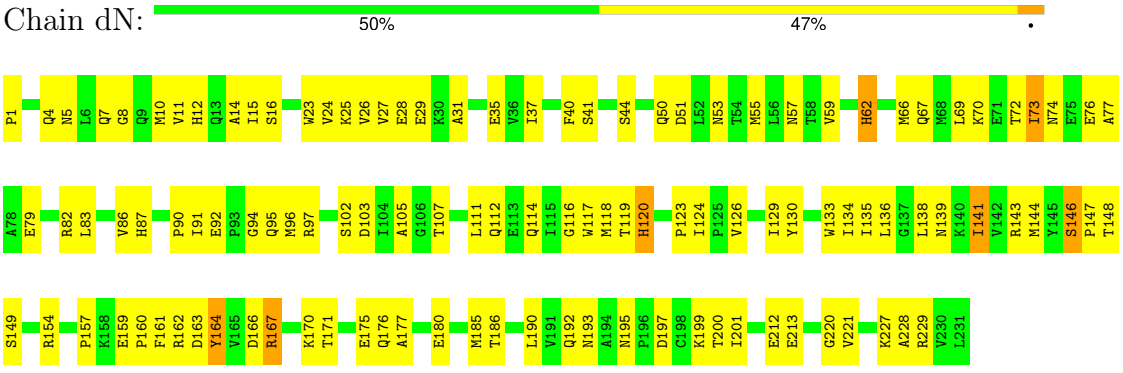
• Molecule 1: capsid protein

Chain dM:



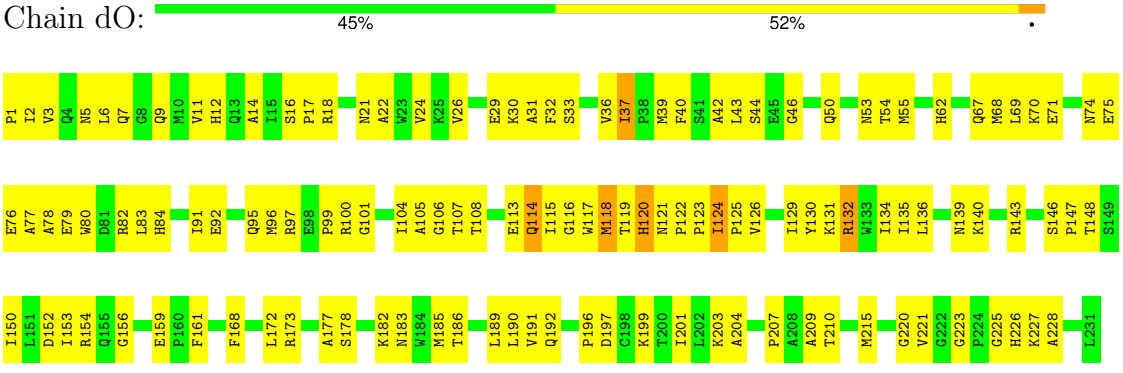
• Molecule 1: capsid protein

Chain dN:



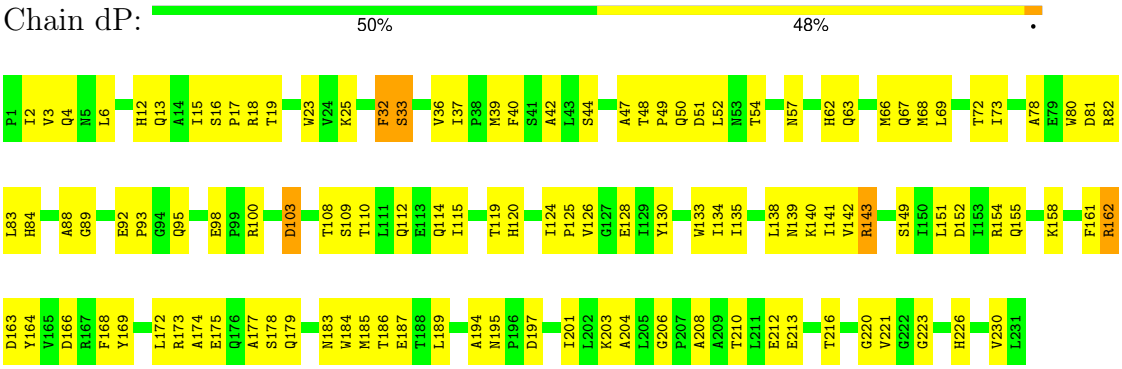
• Molecule 1: capsid protein

Chain dO:



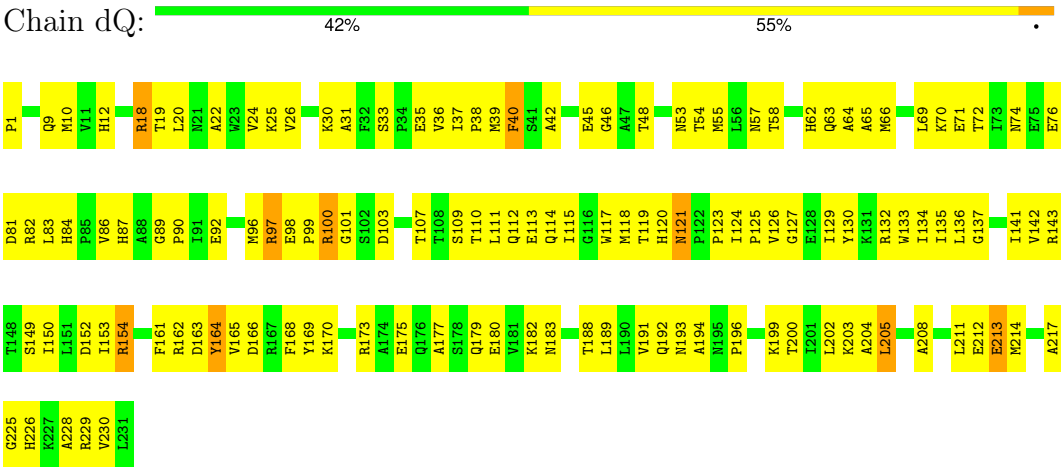
• Molecule 1: capsid protein

Chain dP:



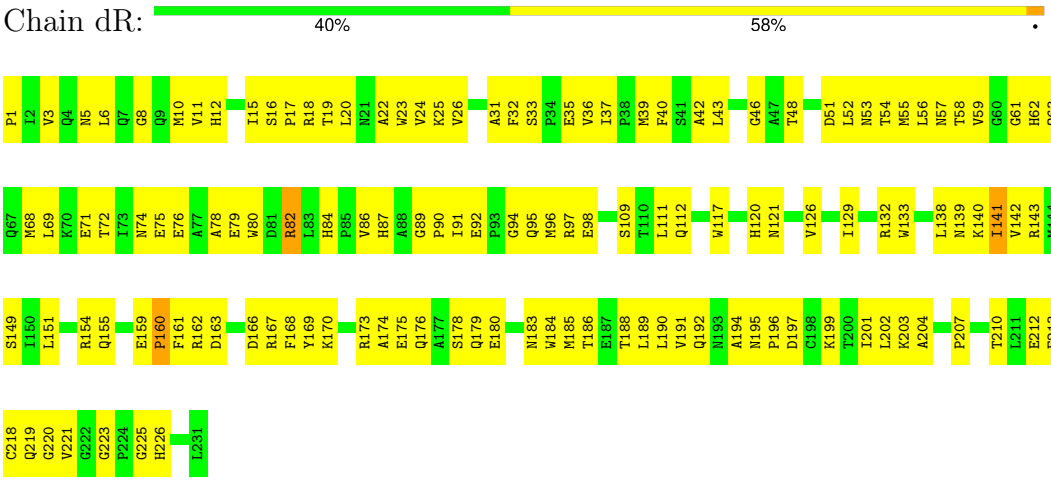
• Molecule 1: capsid protein

Chain dQ:



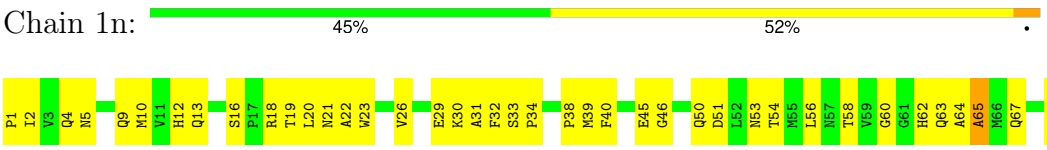
• Molecule 1: capsid protein

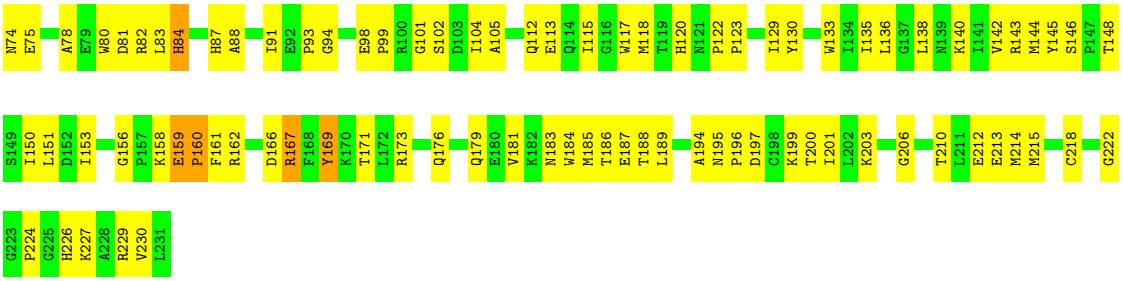
Chain dR:



• Molecule 1: capsid protein

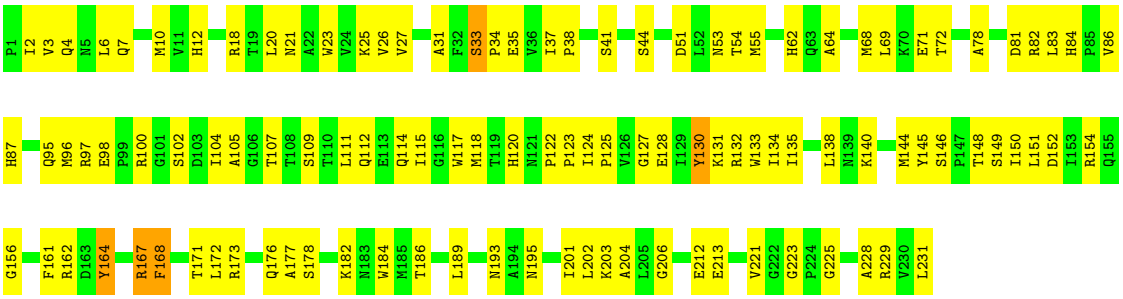
Chain 1n:





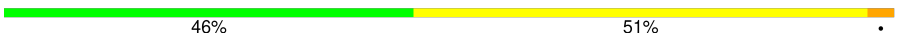
• Molecule 1: capsid protein

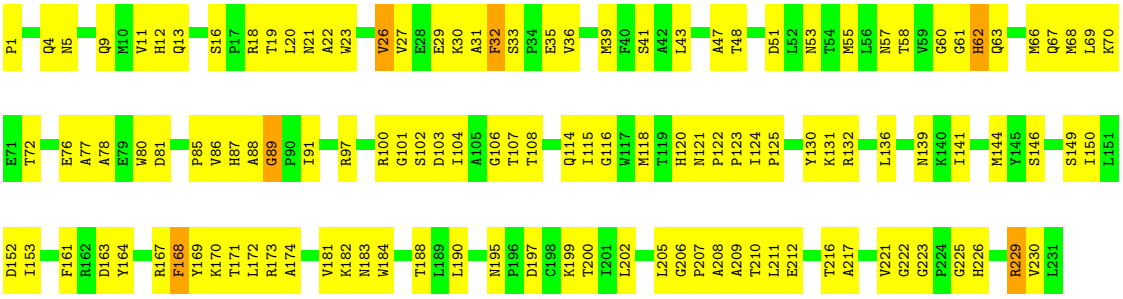
Chain dS:



• Molecule 1: capsid protein

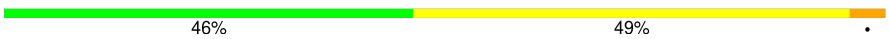
Chain dT:

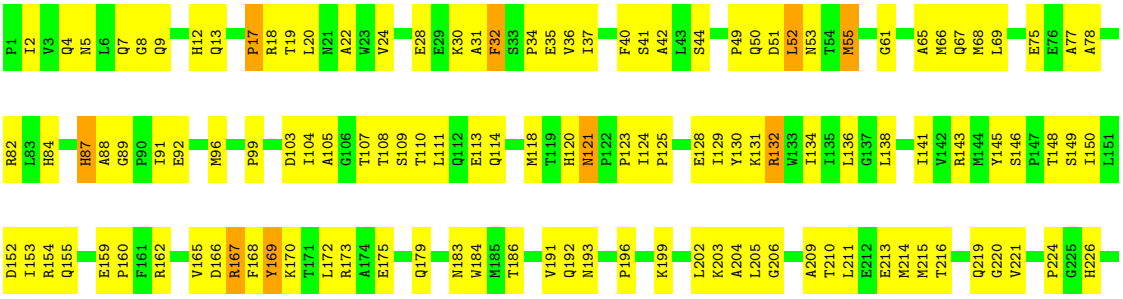




• Molecule 1: capsid protein

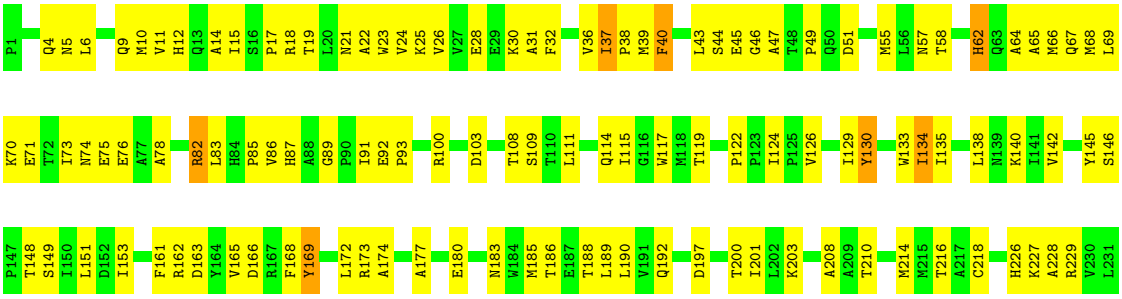
Chain dU:





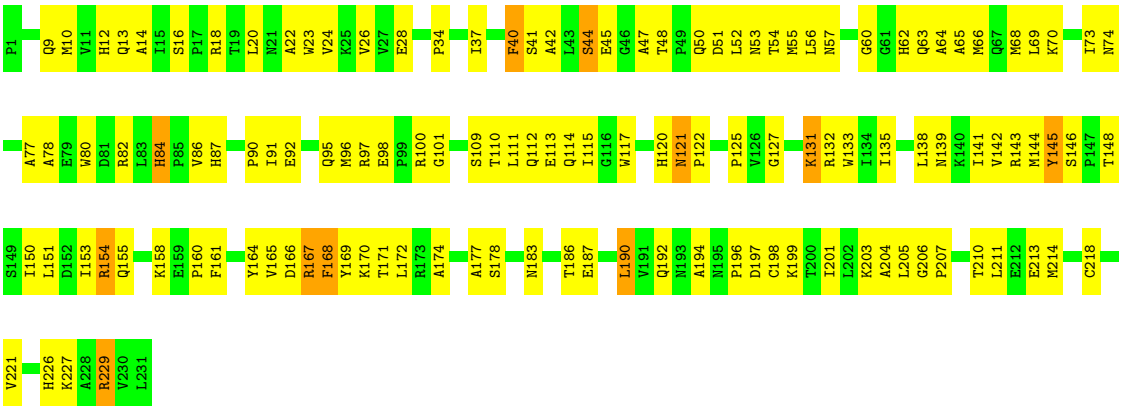
• Molecule 1: capsid protein

Chain dV:



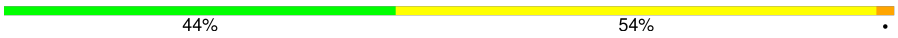
• Molecule 1: capsid protein

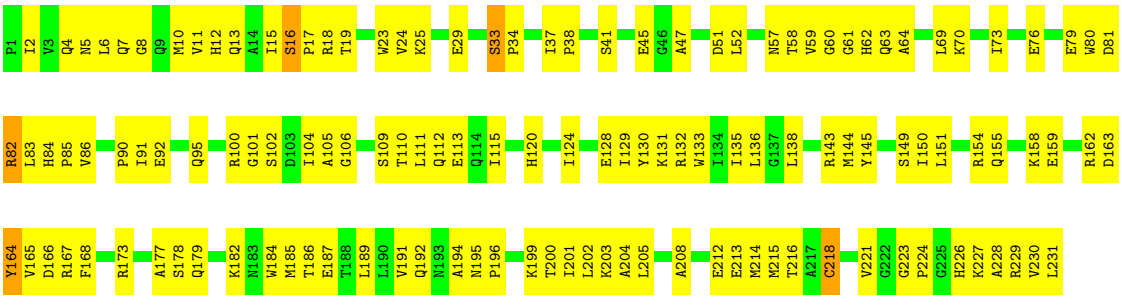
Chain dW:



• Molecule 1: capsid protein

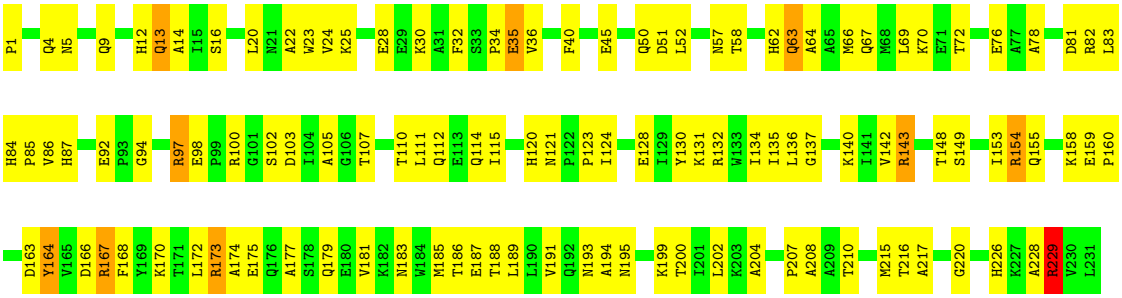
Chain dX:





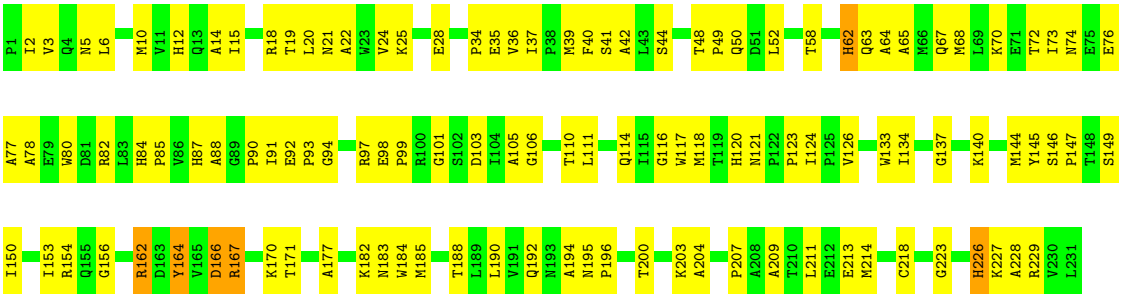
• Molecule 1: capsid protein

Chain dY:



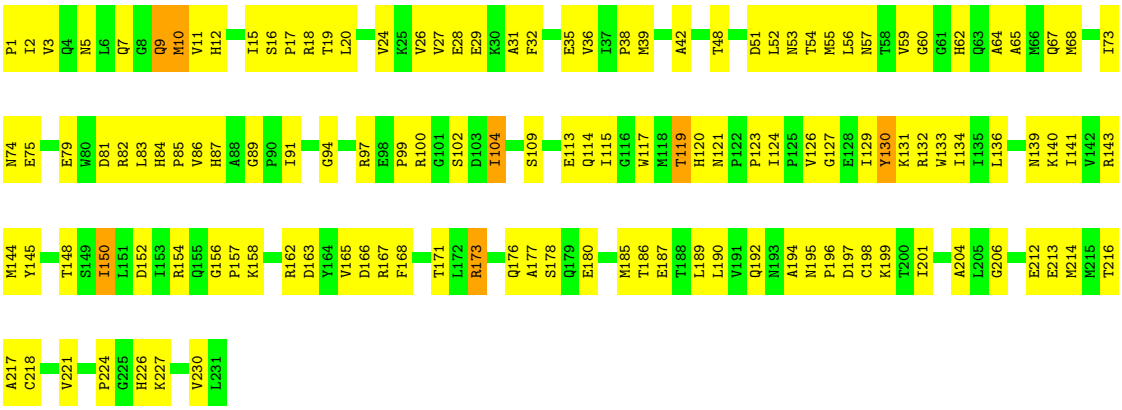
• Molecule 1: capsid protein

Chain dZ:



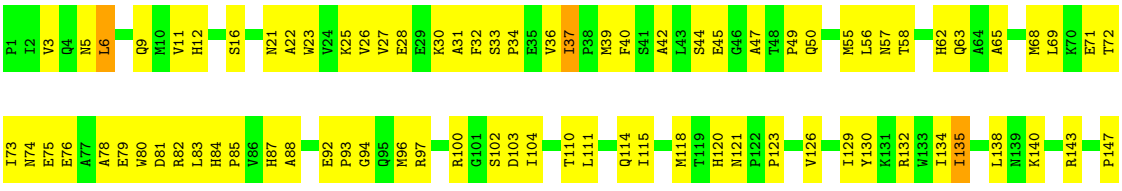
• Molecule 1: capsid protein

Chain e0:



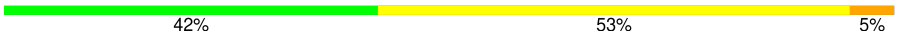
• Molecule 1: capsid protein

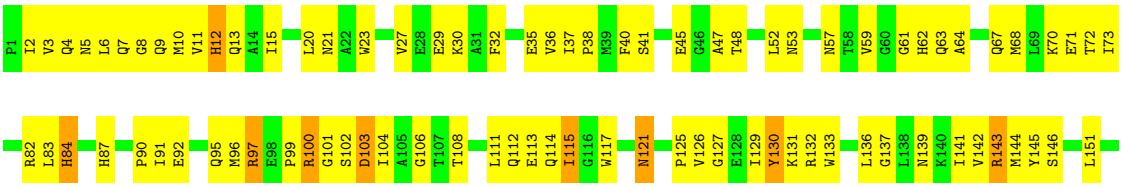
Chain e1:



• Molecule 1: capsid protein

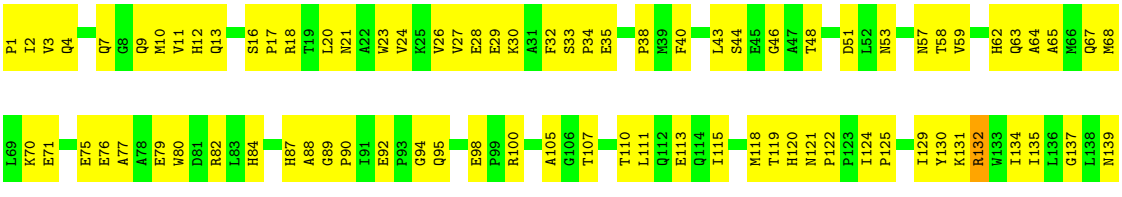
Chain 1o:





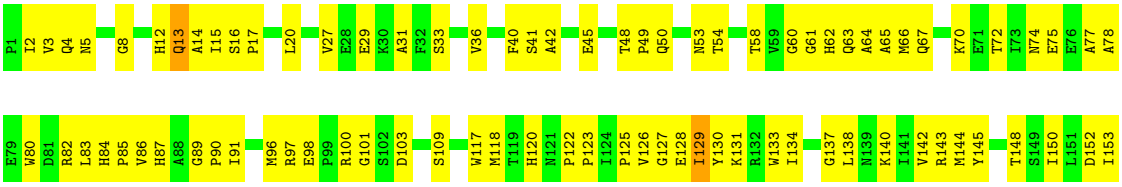
• Molecule 1: capsid protein

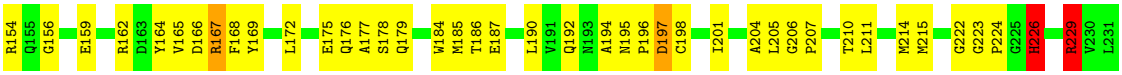
Chain e2:



• Molecule 1: capsid protein

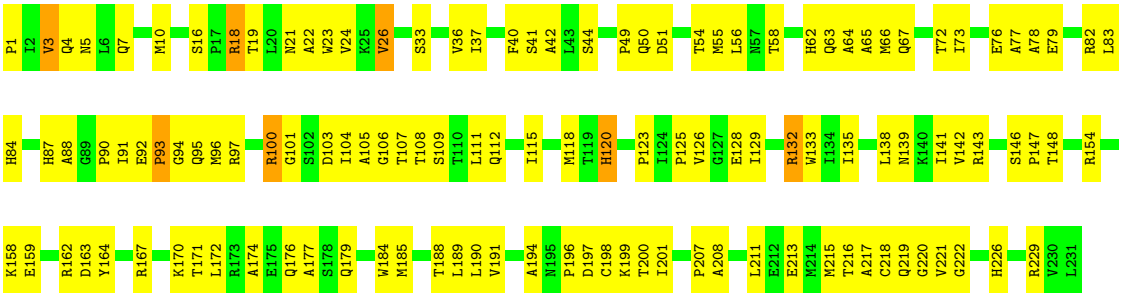
Chain e3:





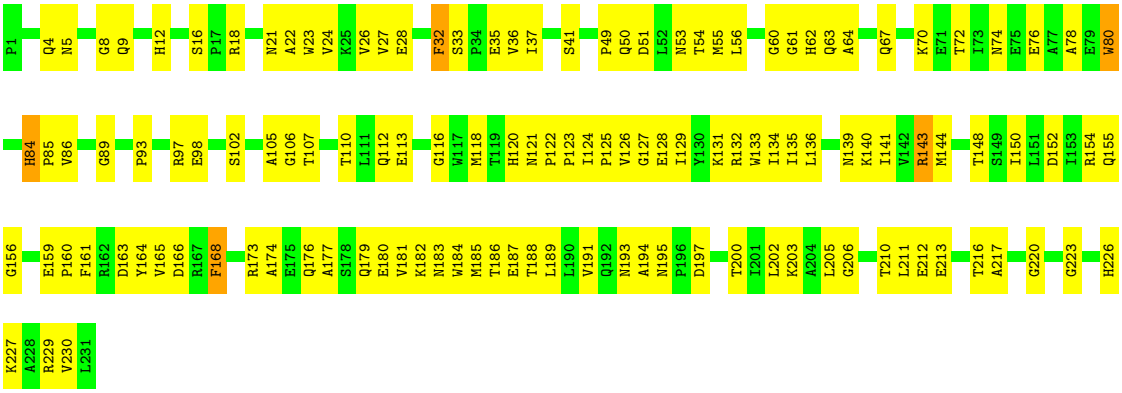
• Molecule 1: capsid protein

Chain e4:



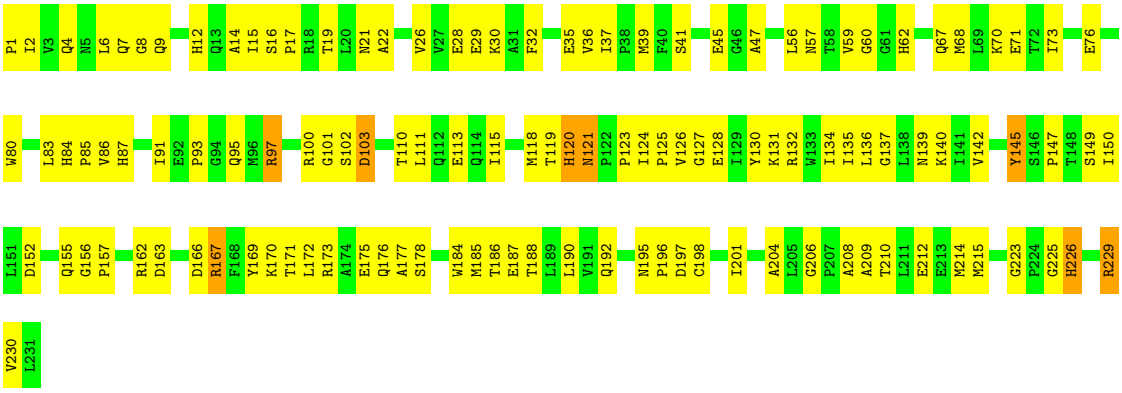
• Molecule 1: capsid protein

Chain e5:



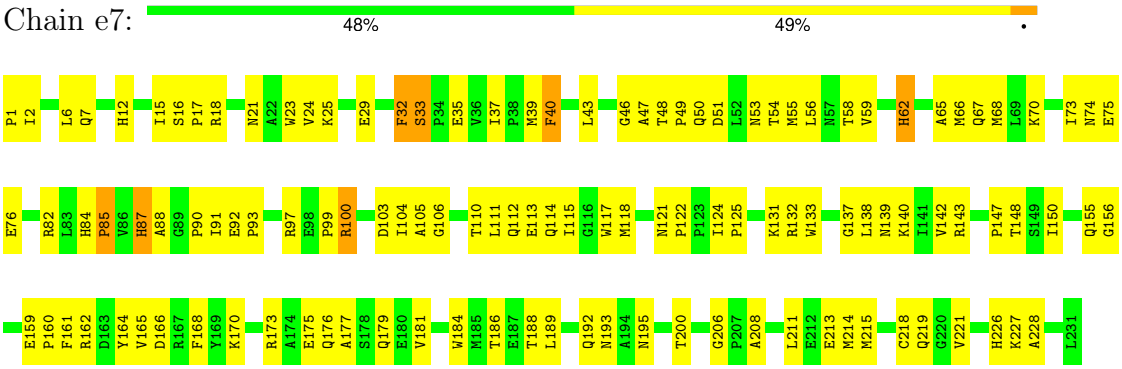
• Molecule 1: capsid protein

Chain e6:



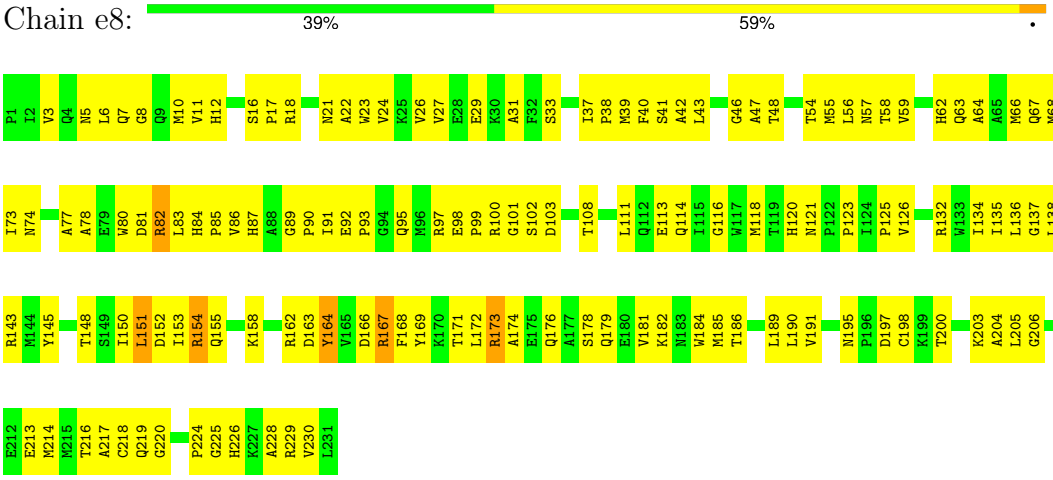
• Molecule 1: capsid protein

Chain e7:



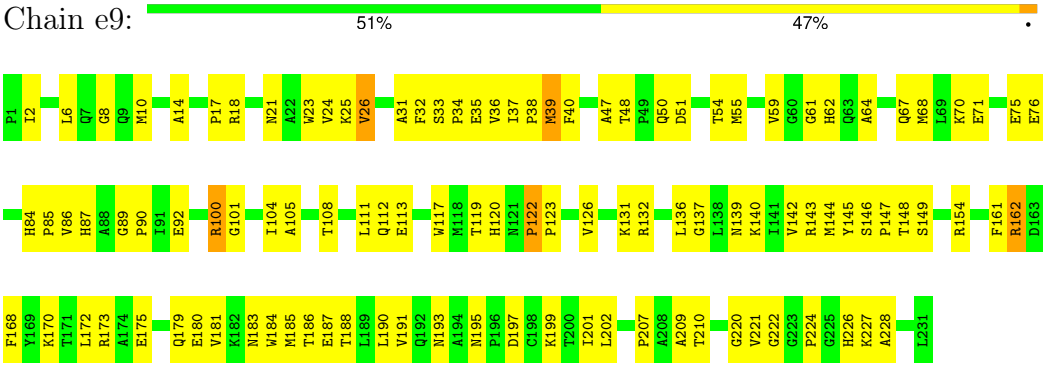
• Molecule 1: capsid protein

Chain e8:



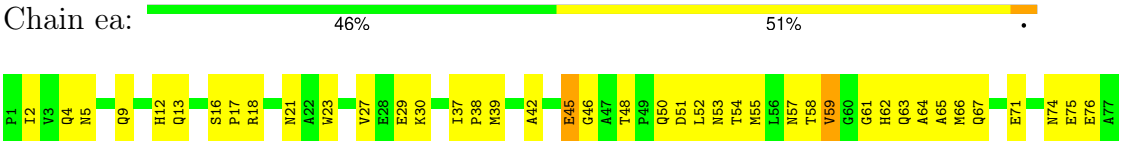
• Molecule 1: capsid protein

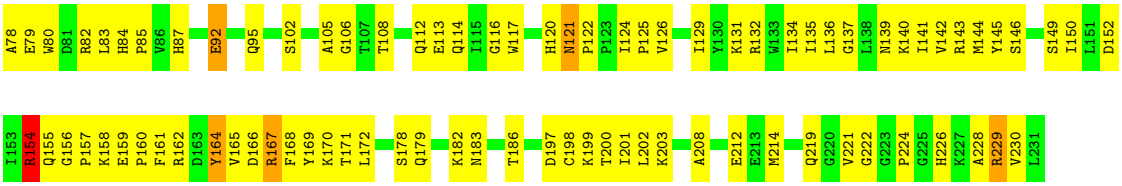
Chain e9:



• Molecule 1: capsid protein

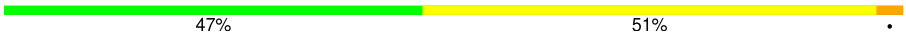
Chain ea:

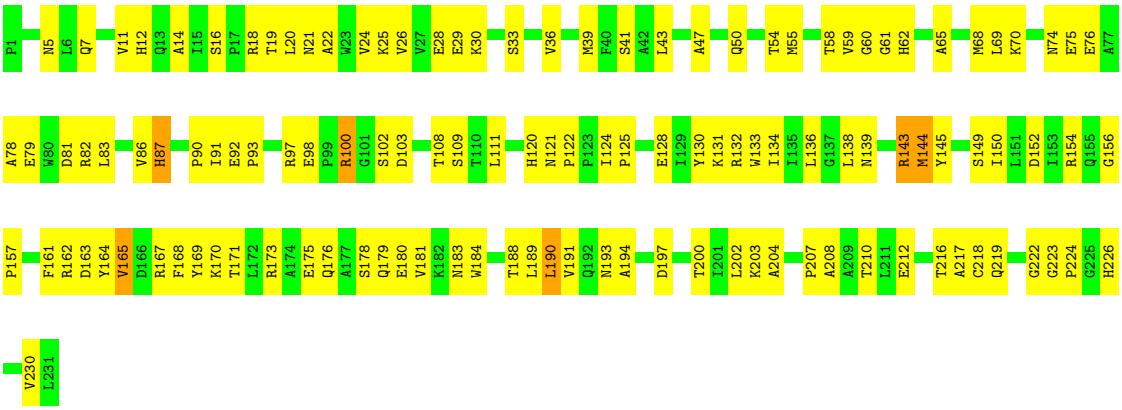




• Molecule 1: capsid protein

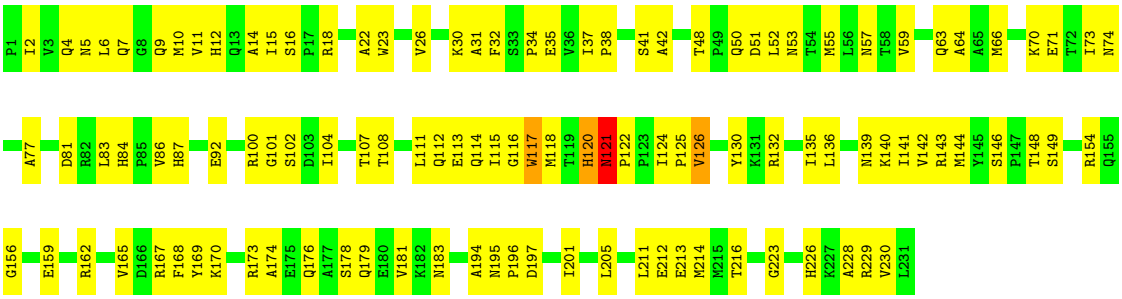
Chain eb:





• Molecule 1: capsid protein

Chain 1p:

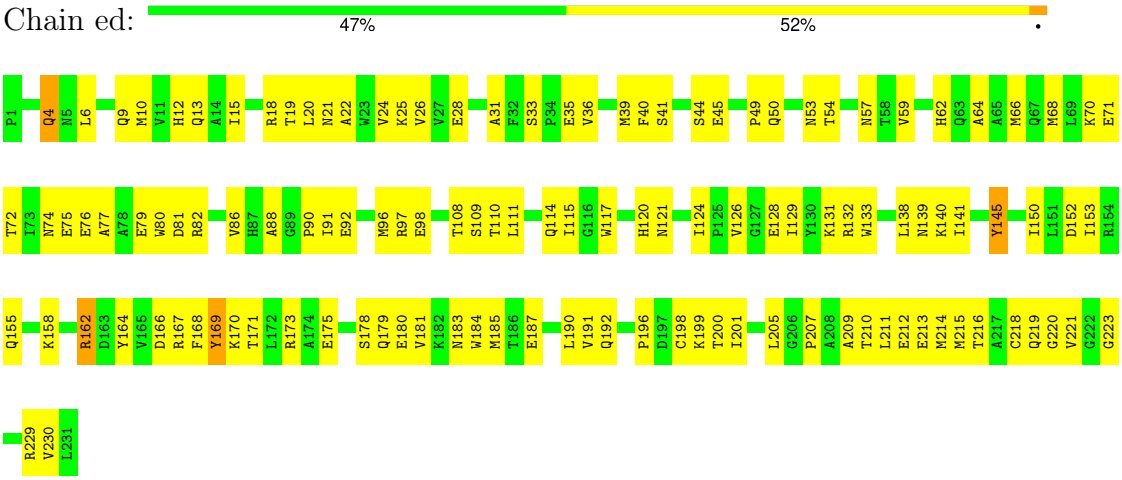


• Molecule 1: capsid protein

Chain ec:

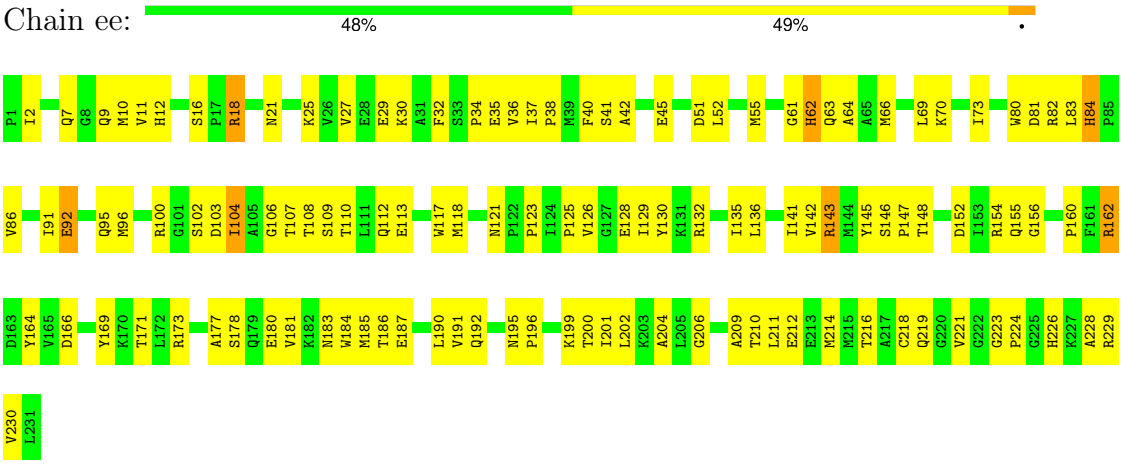
• Molecule 1: capsid protein

Chain ed:



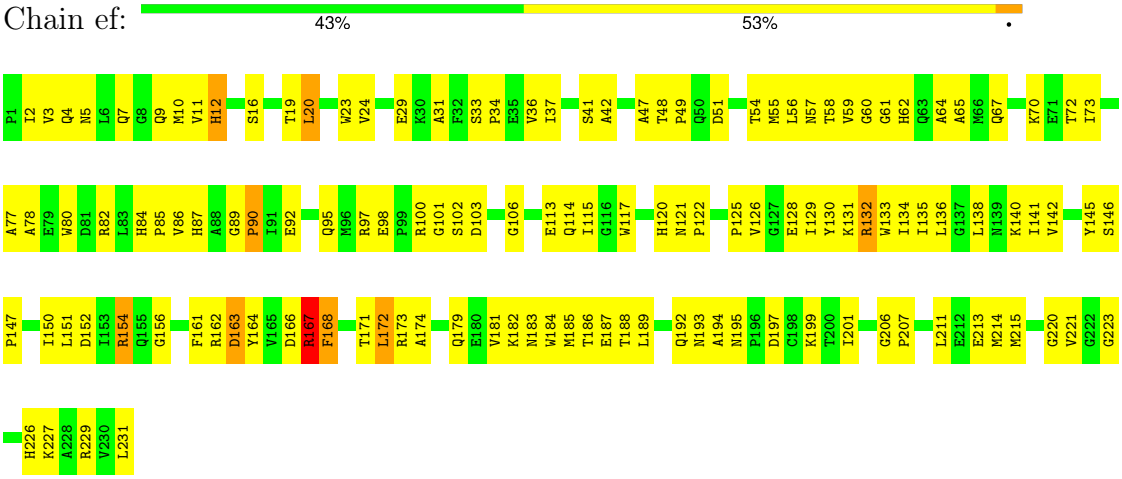
• Molecule 1: capsid protein

Chain ee:



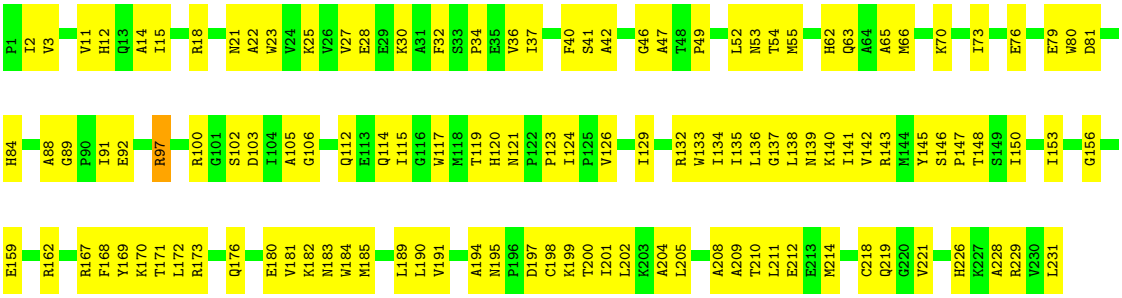
• Molecule 1: capsid protein

Chain ef:



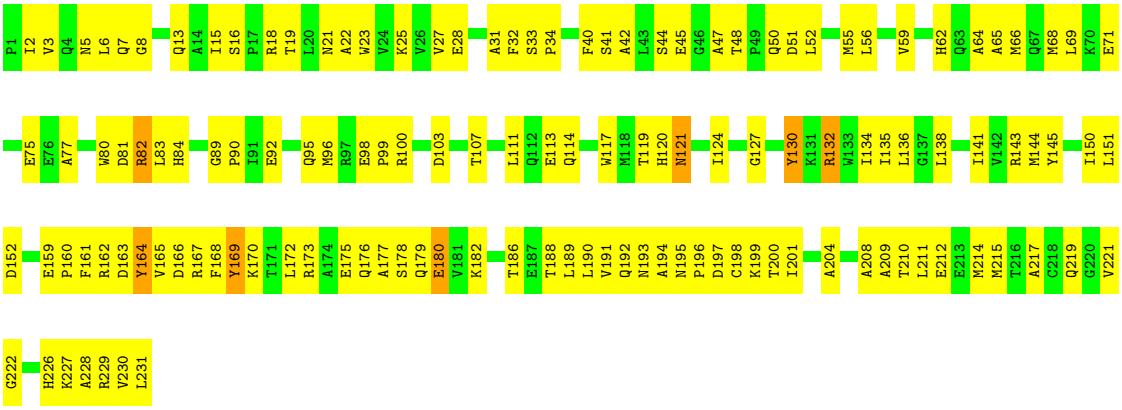
• Molecule 1: capsid protein

Chain eg:



• Molecule 1: capsid protein

Chain eh:

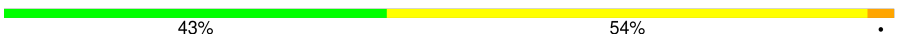


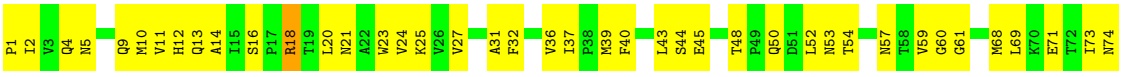
• Molecule 1: capsid protein

Chain ei:

• Molecule 1: capsid protein

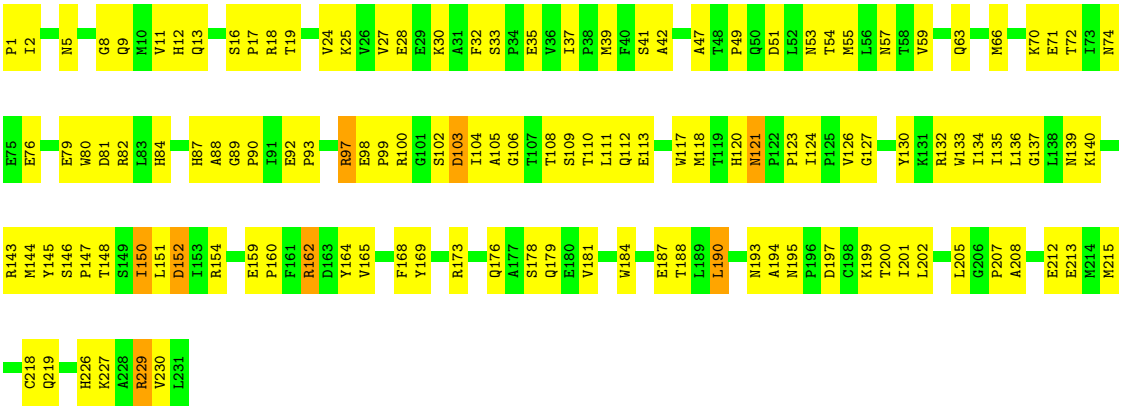
Chain ej:





• Molecule 1: capsid protein

Chain ek:

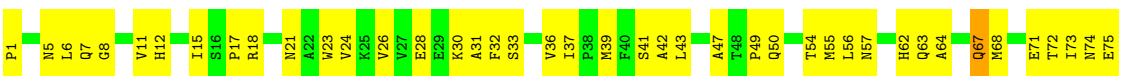


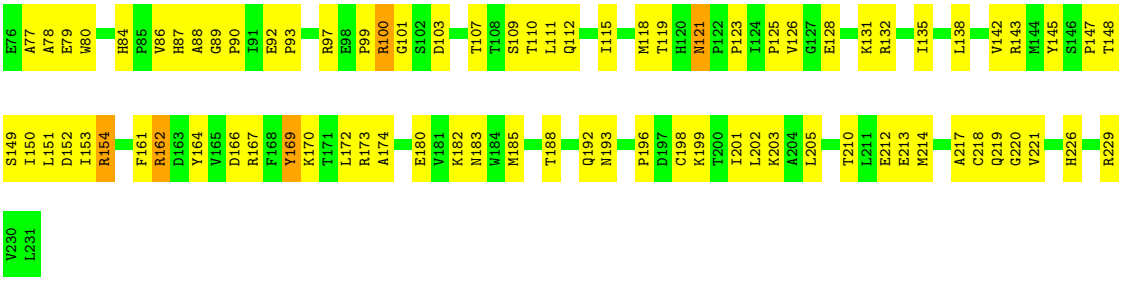
• Molecule 1: capsid protein

Chain el:

• Molecule 1: capsid protein

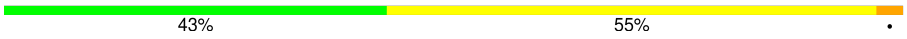
Chain 1q:





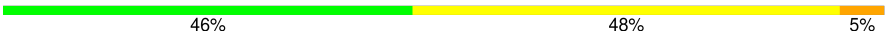
• Molecule 1: capsid protein

Chain em:



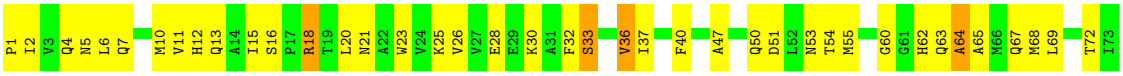
• Molecule 1: capsid protein

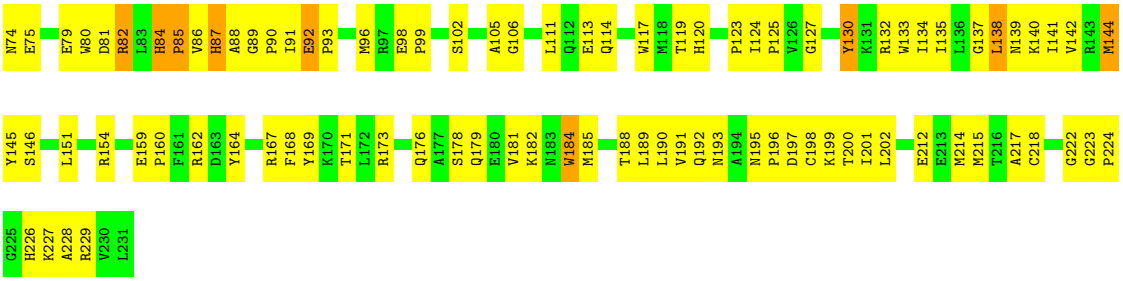
Chain en:



• Molecule 1: capsid protein

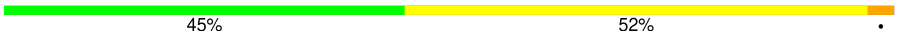
Chain eo:





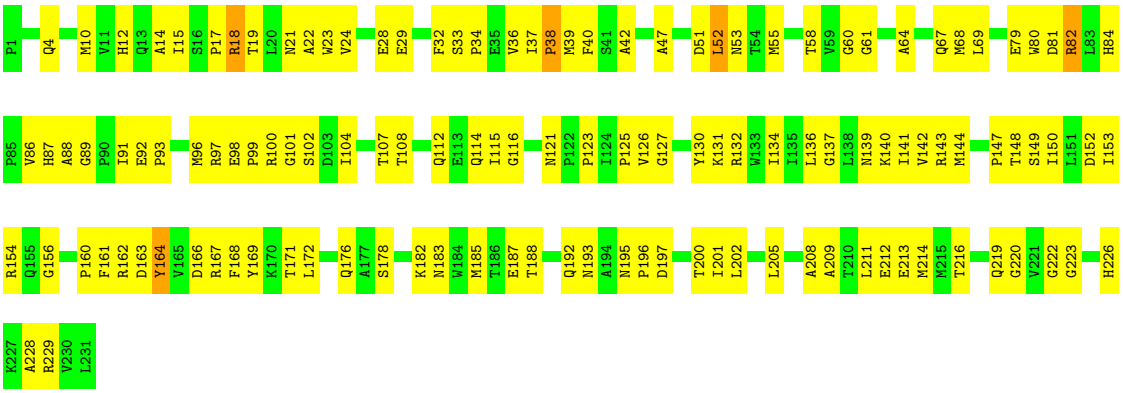
• Molecule 1: capsid protein

Chain ep:



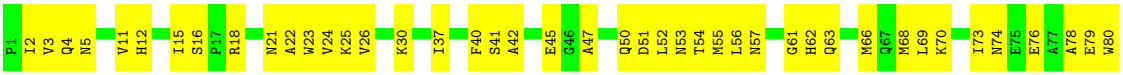
• Molecule 1: capsid protein

Chain eq:



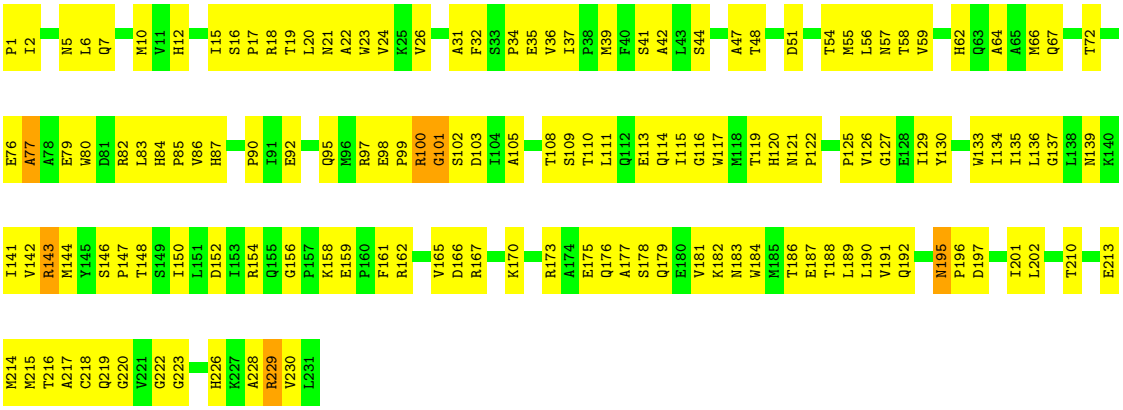
• Molecule 1: capsid protein

Chain er:



• Molecule 1: capsid protein

Chain es:



• Molecule 1: capsid protein

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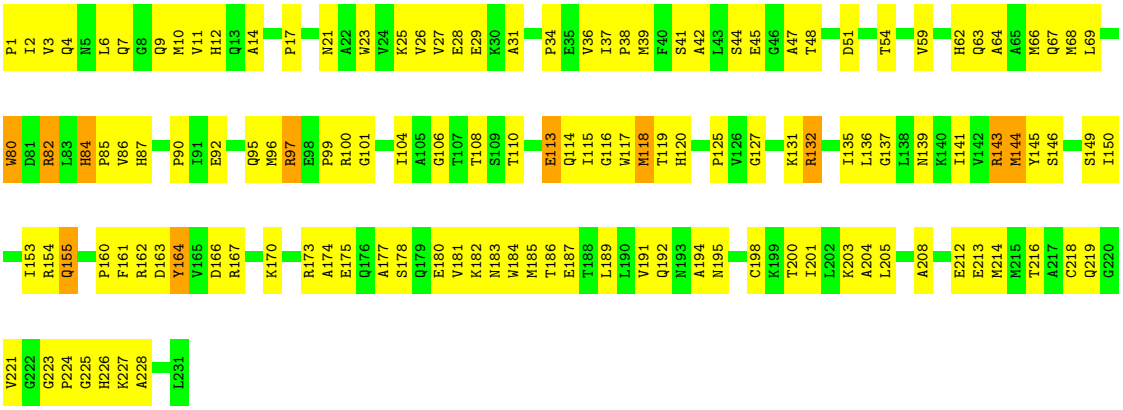

• Molecule 1: capsid protein

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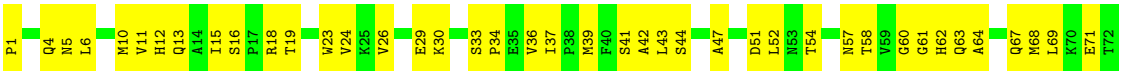
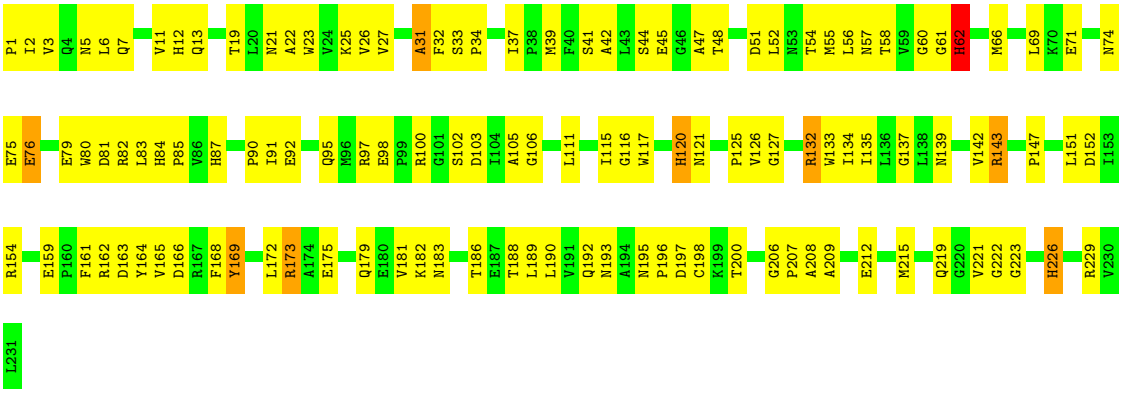


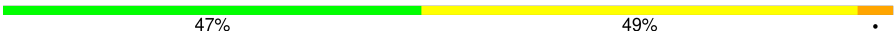
• Molecule 1: capsid protein

Chain ev:



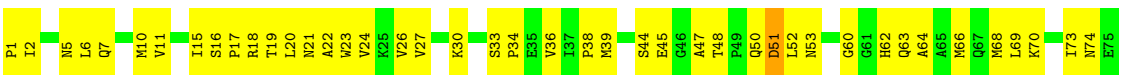
• Molecule 1: capsid protein

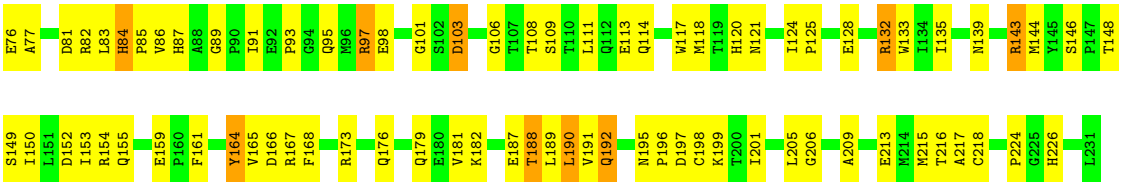
Chain 1r:



• Molecule 1: capsid protein

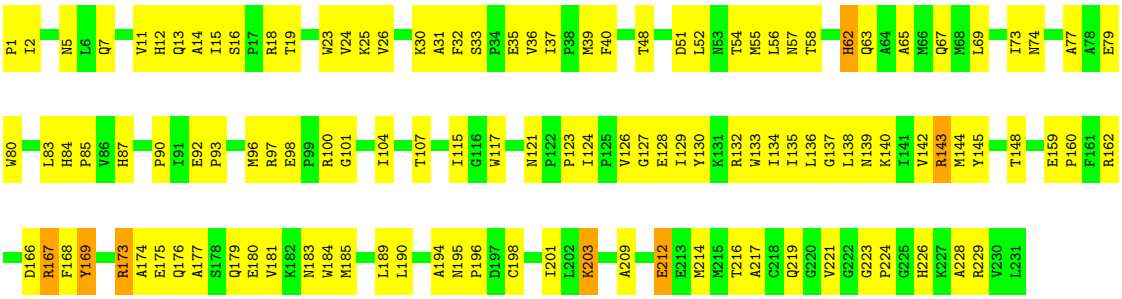
Chain ew:





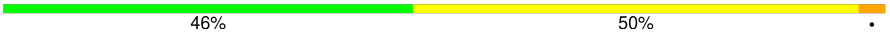
• Molecule 1: capsid protein

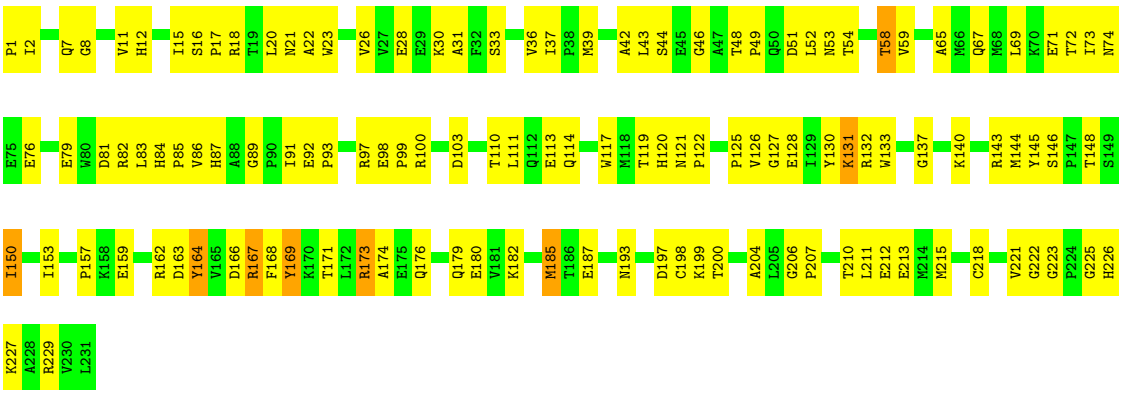
Chain ex:



• Molecule 1: capsid protein

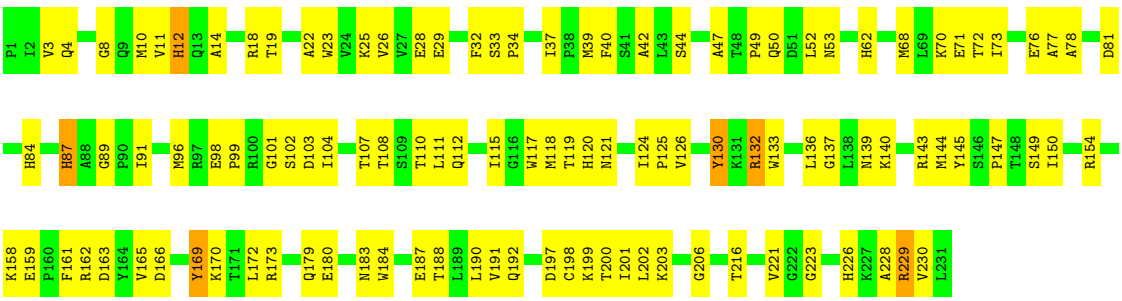
Chain ey:





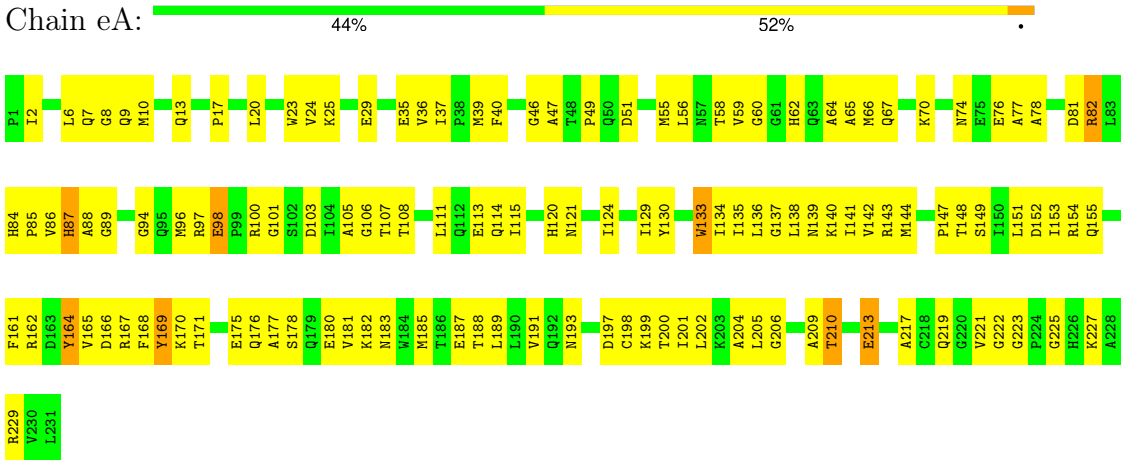
• Molecule 1: capsid protein

Chain ez:



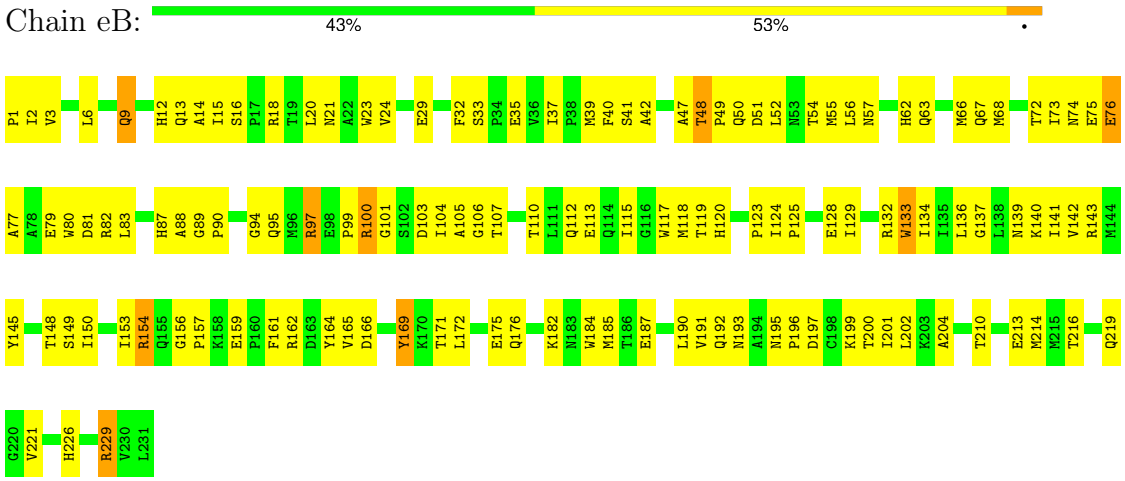
• Molecule 1: capsid protein

Chain eA:



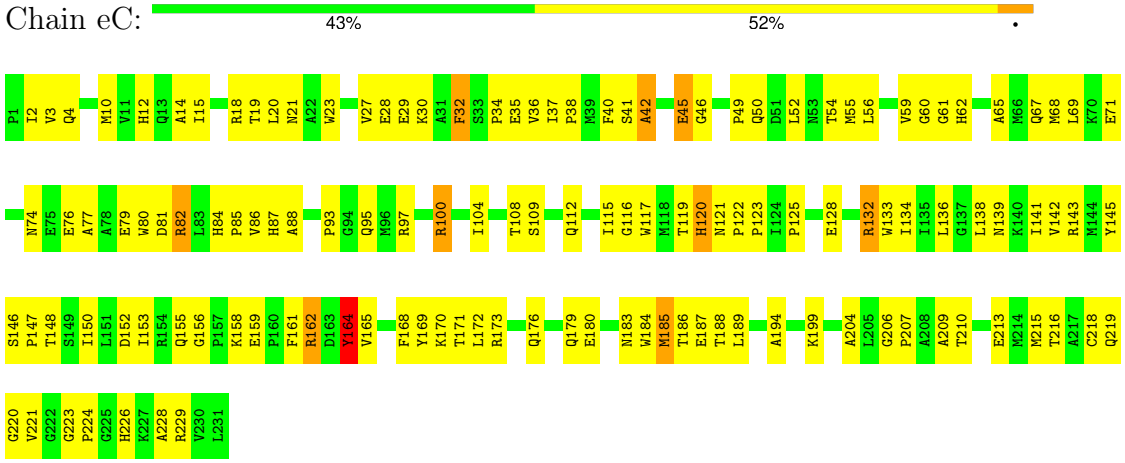
• Molecule 1: capsid protein

Chain eB:



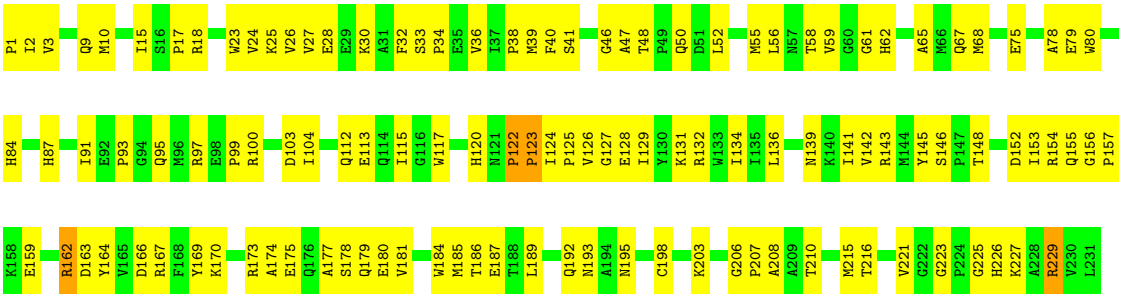
• Molecule 1: capsid protein

Chain eC:



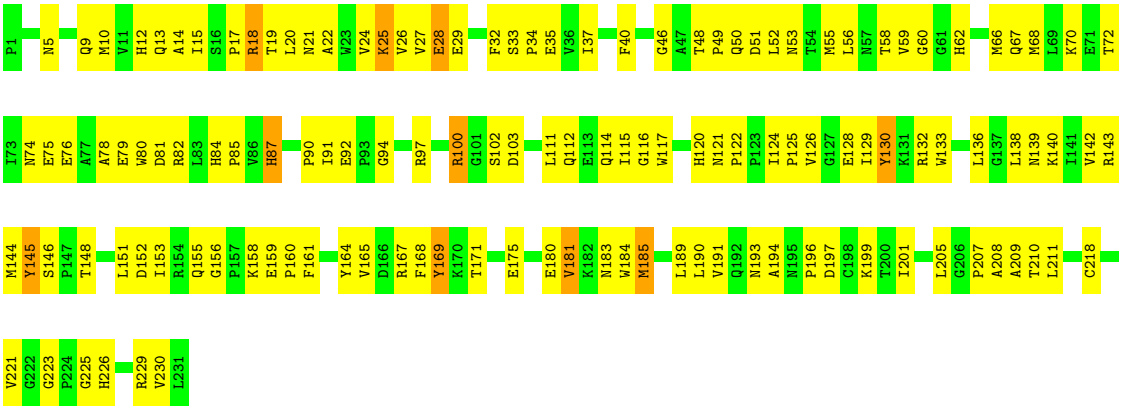
• Molecule 1: capsid protein

Chain eD:



• Molecule 1: capsid protein

Chain eE:

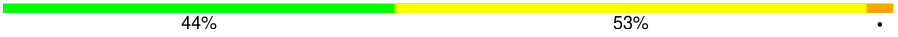


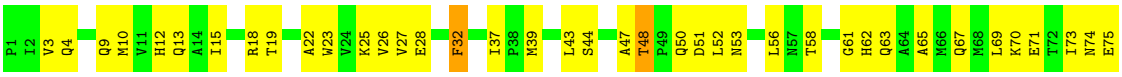
• Molecule 1: capsid protein

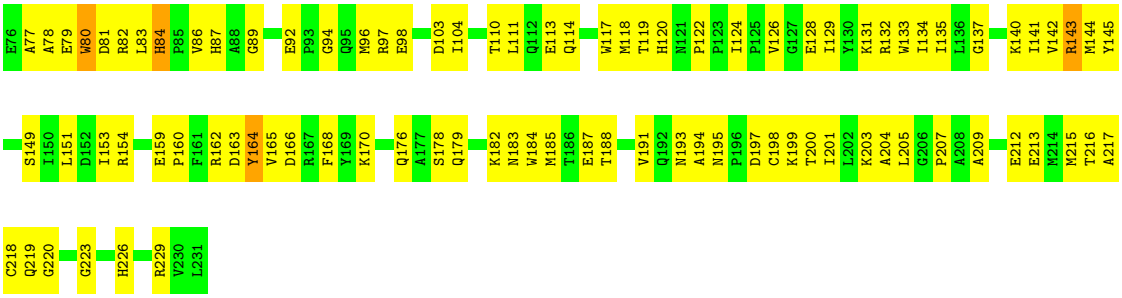
Chain eF:

• Molecule 1: capsid protein

Chain 1s:

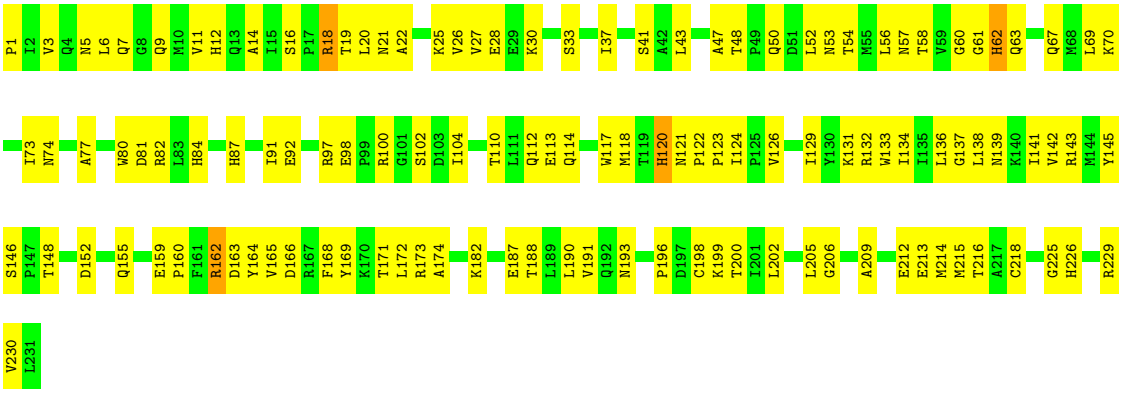






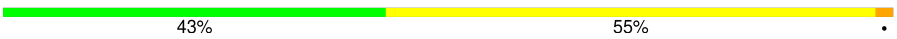
• Molecule 1: capsid protein

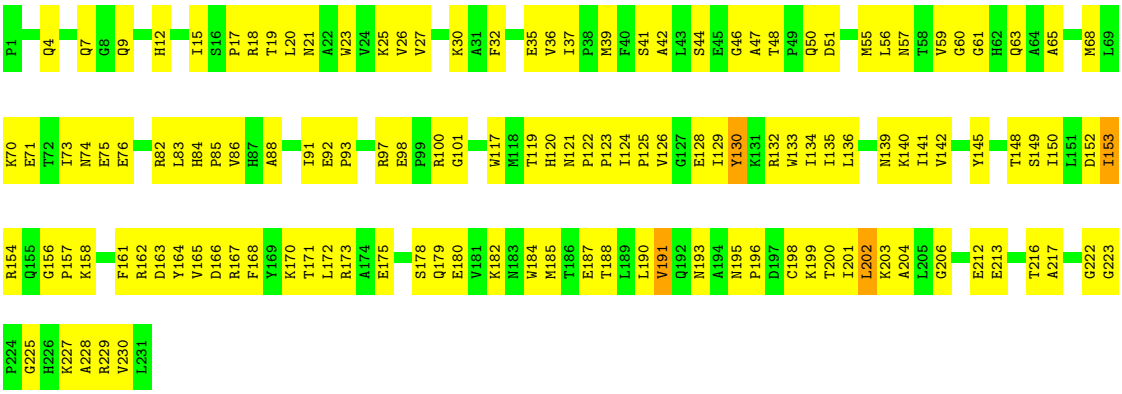
Chain eG:



• Molecule 1: capsid protein

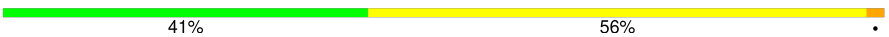
Chain eH:

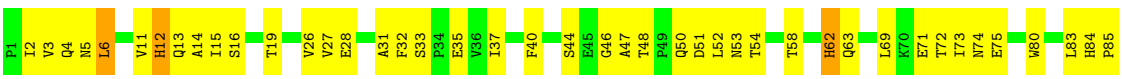


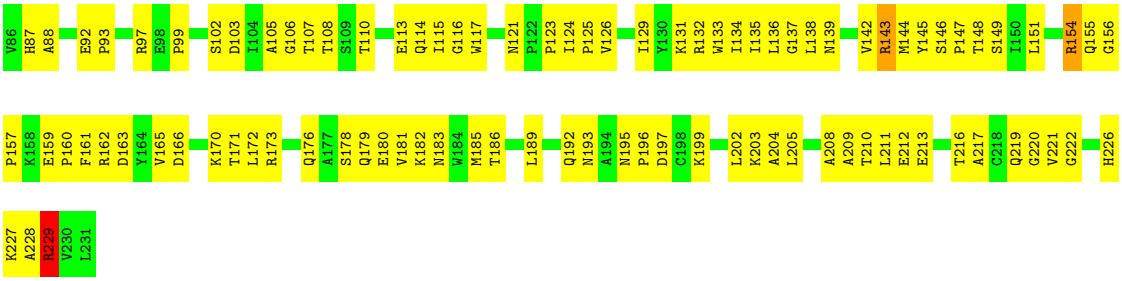


• Molecule 1: capsid protein

Chain eI:

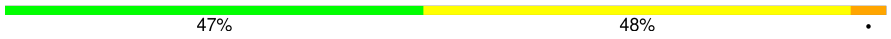


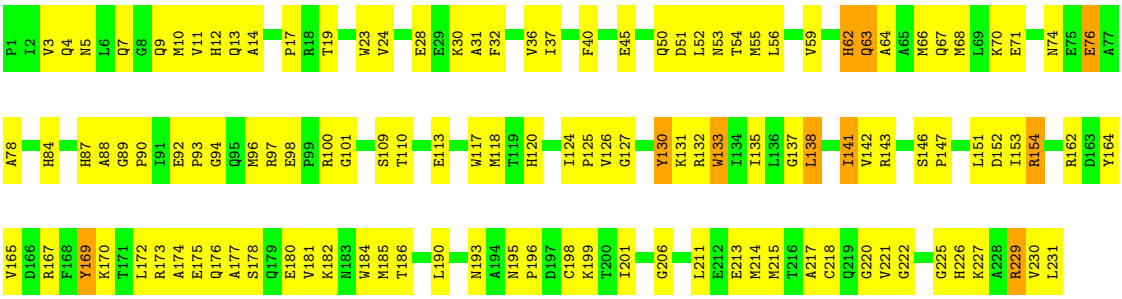




• Molecule 1: capsid protein

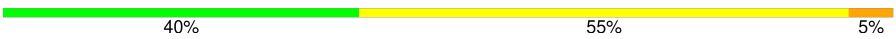
Chain eJ:

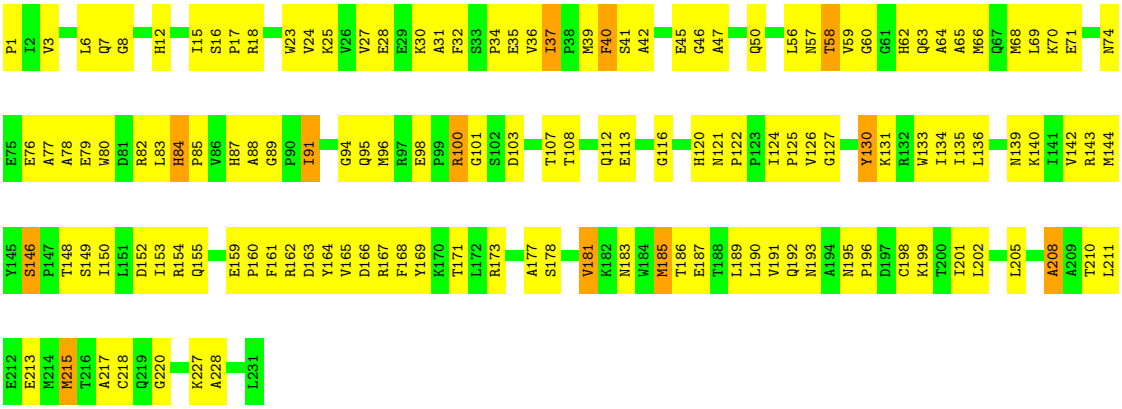




• Molecule 1: capsid protein

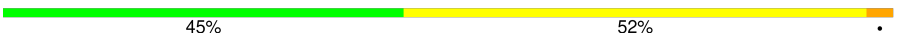
Chain eK:

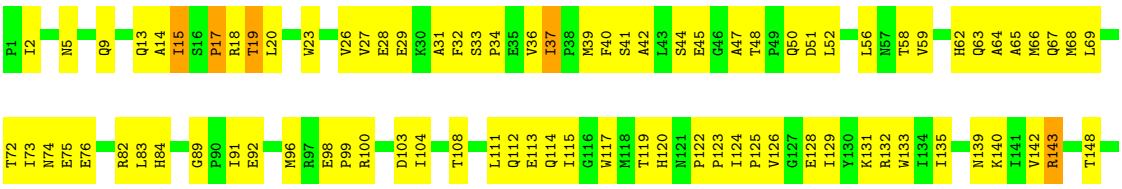


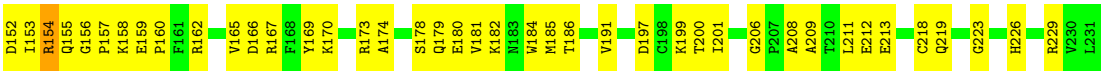


• Molecule 1: capsid protein

Chain eL:

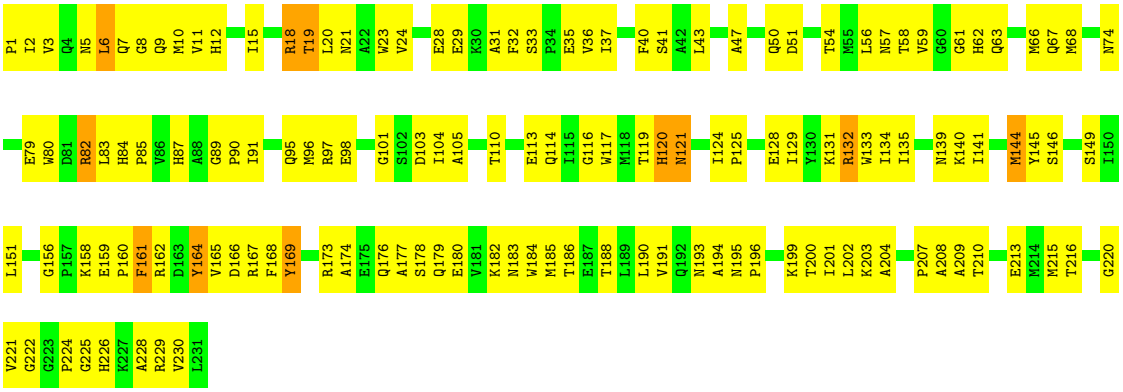






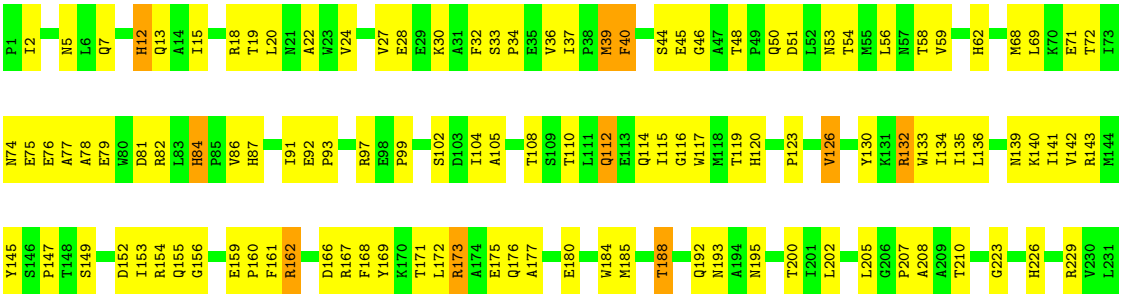
• Molecule 1: capsid protein

Chain eM:



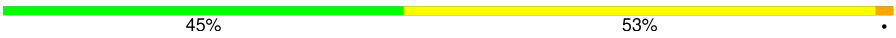
• Molecule 1: capsid protein

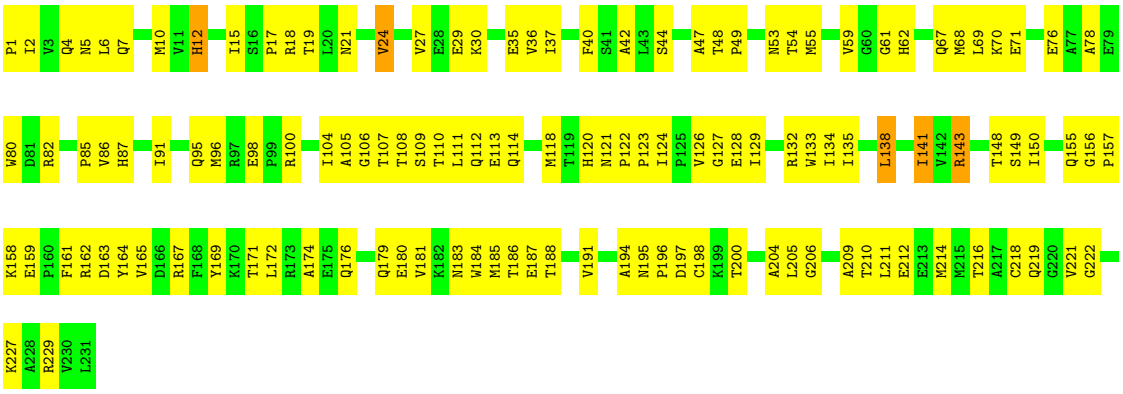
Chain eN:



• Molecule 1: capsid protein

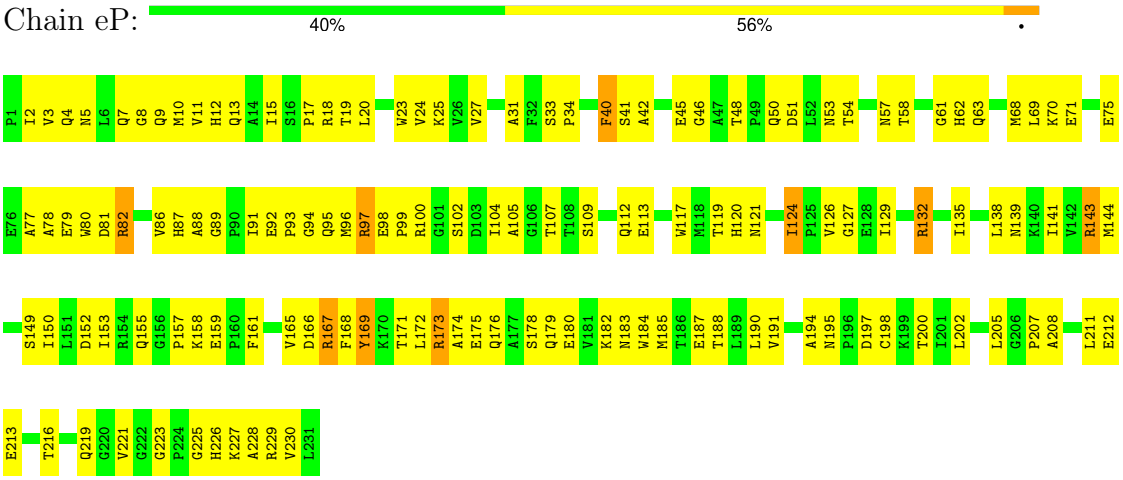
Chain eO:





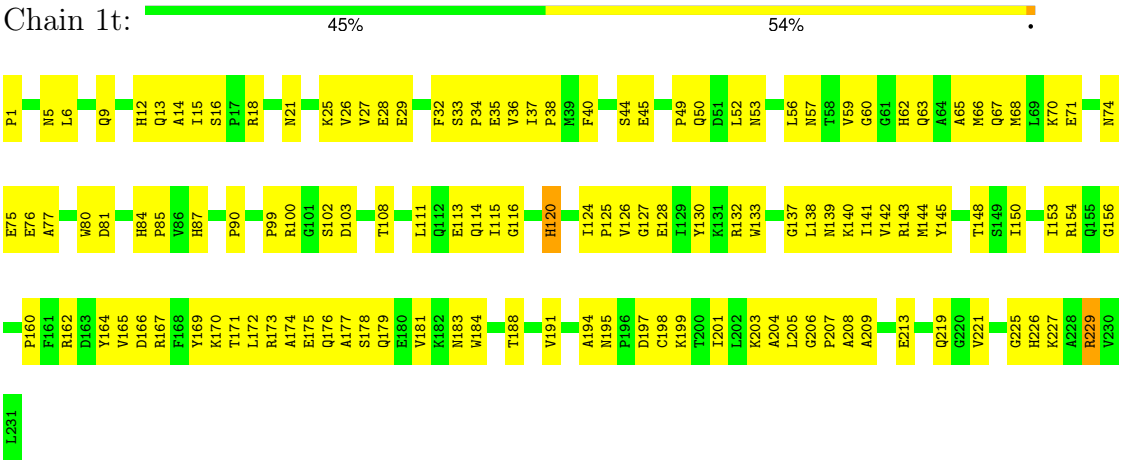
• Molecule 1: capsid protein

Chain eP:



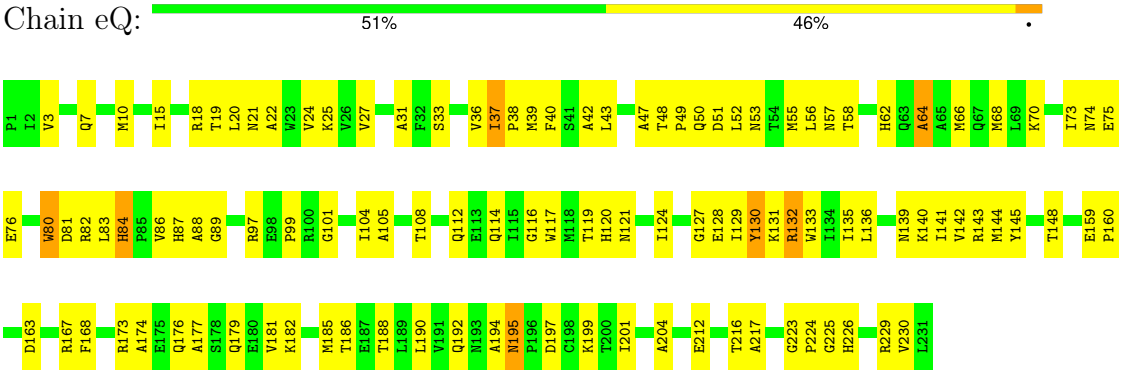
• Molecule 1: capsid protein

Chain 1t:



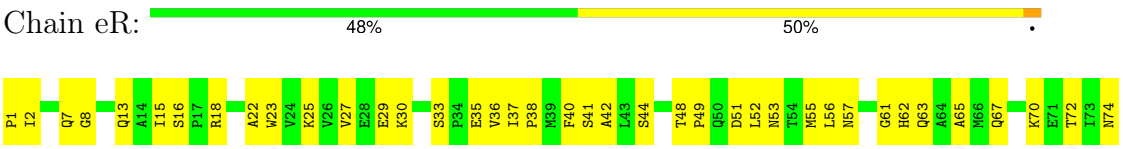
• Molecule 1: capsid protein

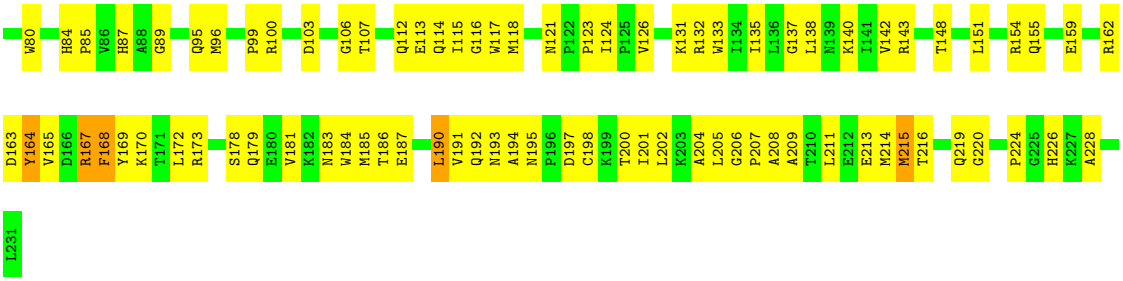
Chain eQ:



• Molecule 1: capsid protein

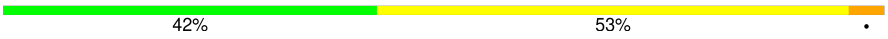
Chain eR:

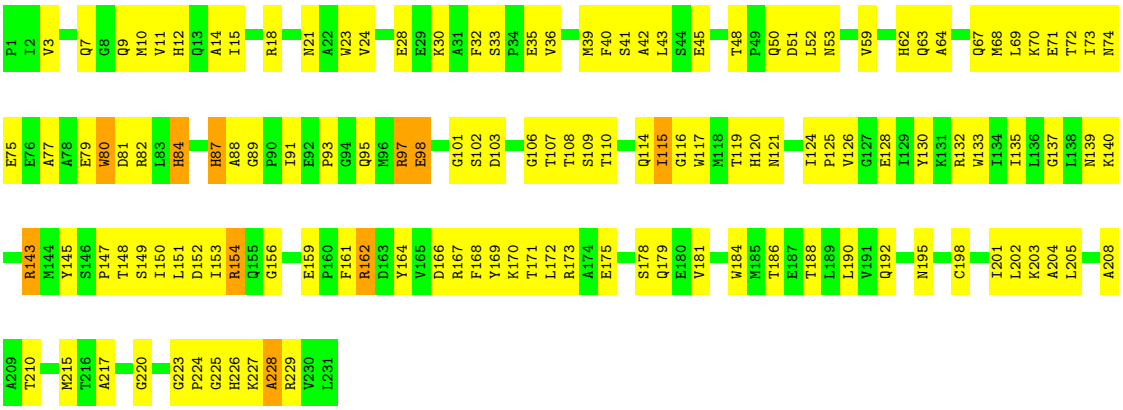




• Molecule 1: capsid protein

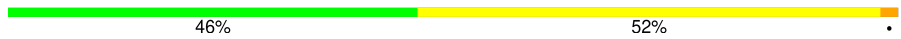
Chain eS:

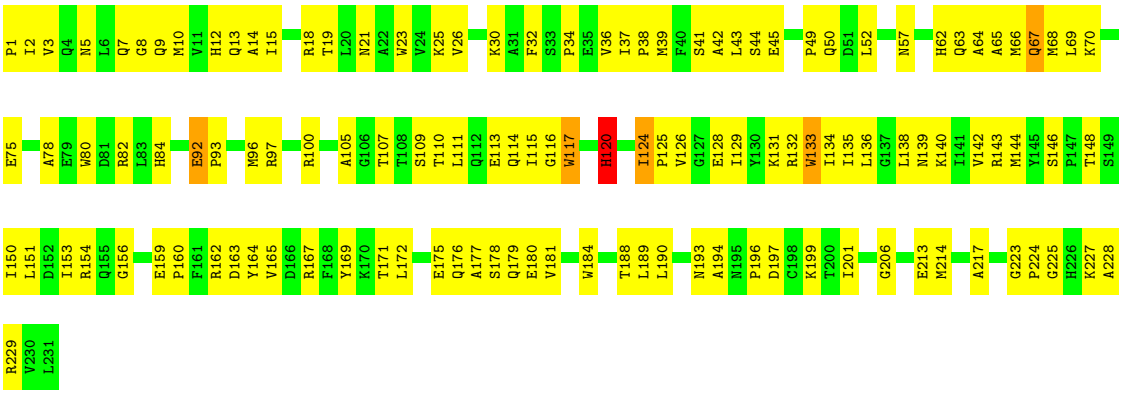




• Molecule 1: capsid protein

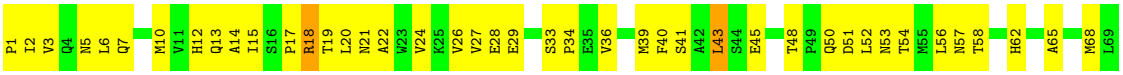
Chain eT:

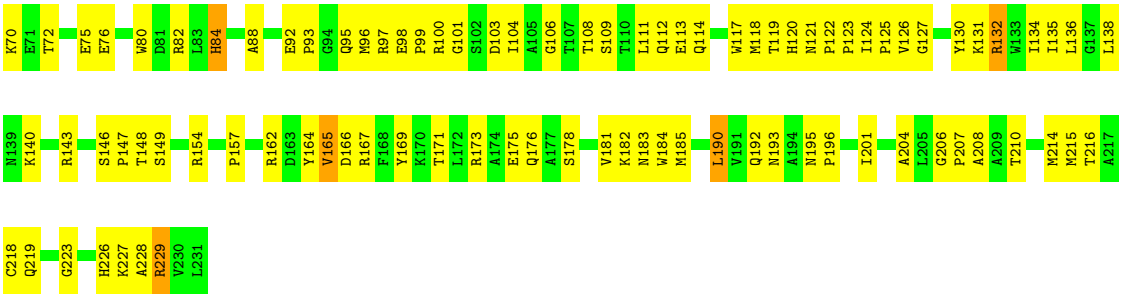




• Molecule 1: capsid protein

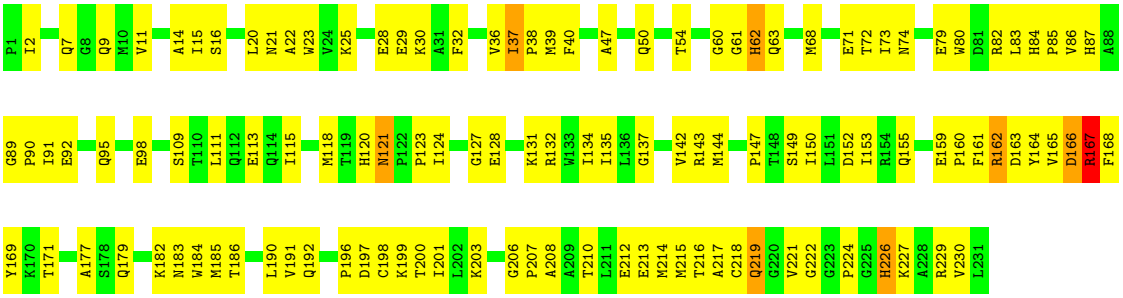
Chain eU:





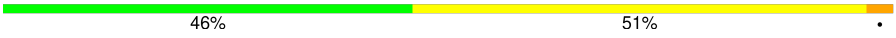
• Molecule 1: capsid protein

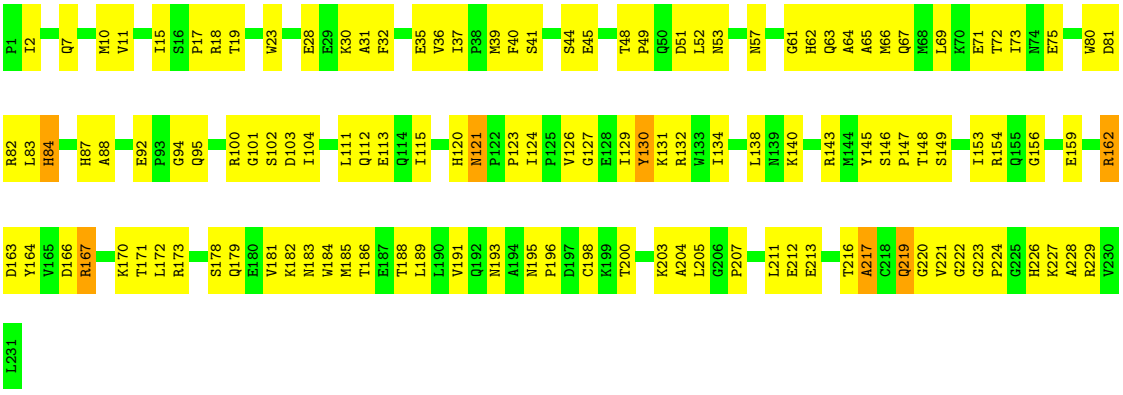
Chain eV:



• Molecule 1: capsid protein

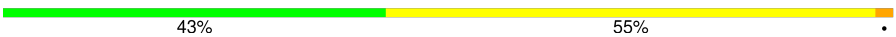
Chain eW:

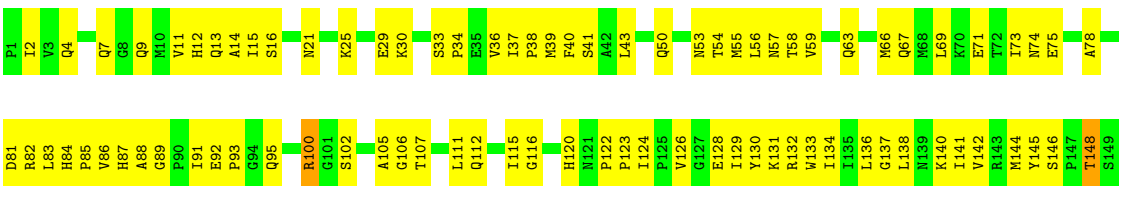


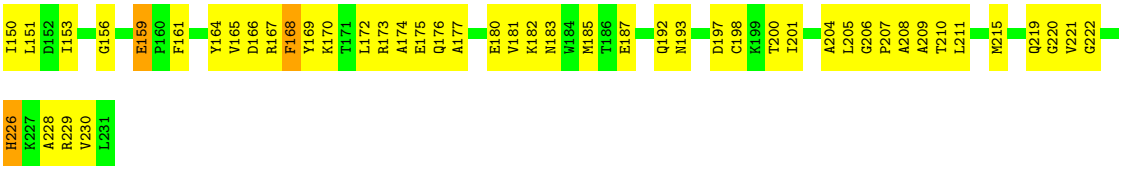


• Molecule 1: capsid protein

Chain eX:

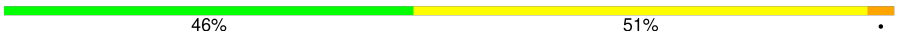






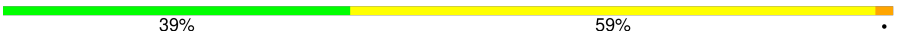
• Molecule 1: capsid protein

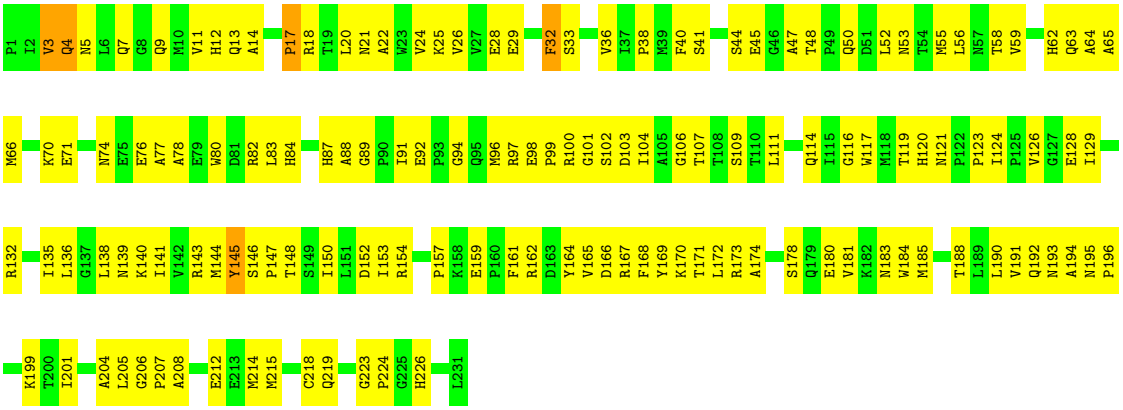
Chain eY:



• Molecule 1: capsid protein

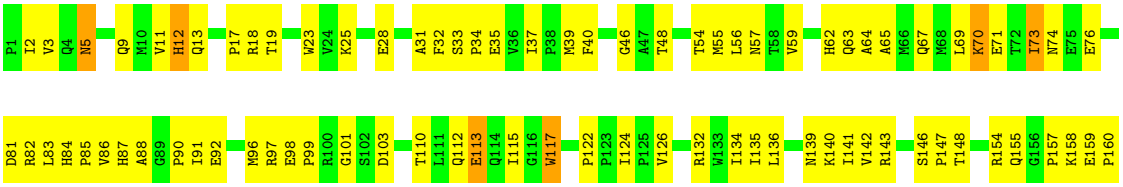
Chain eZ:

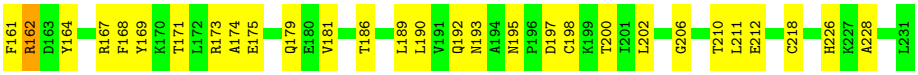




• Molecule 1: capsid protein

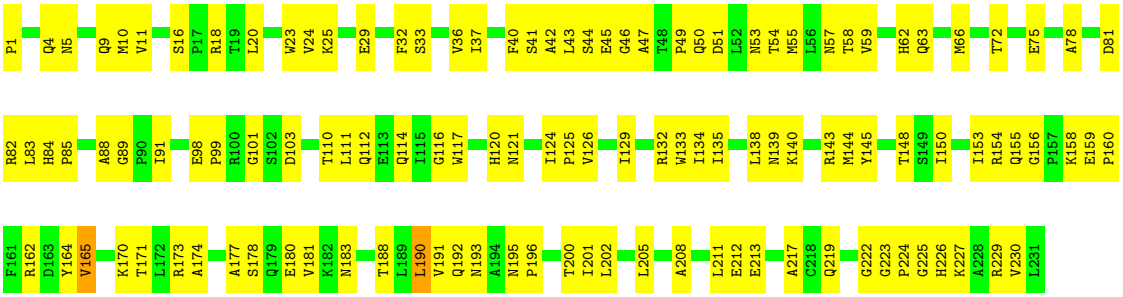
Chain 1u:





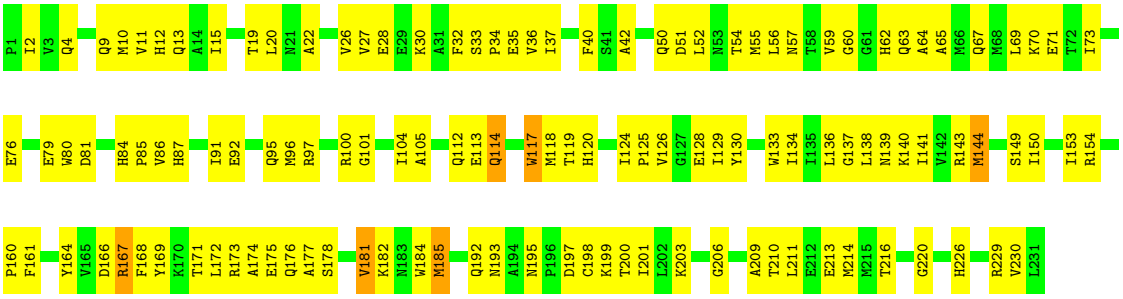
• Molecule 1: capsid protein

Chain f0:



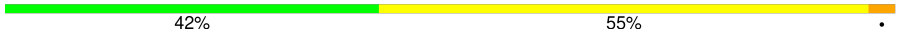
• Molecule 1: capsid protein

Chain f1:



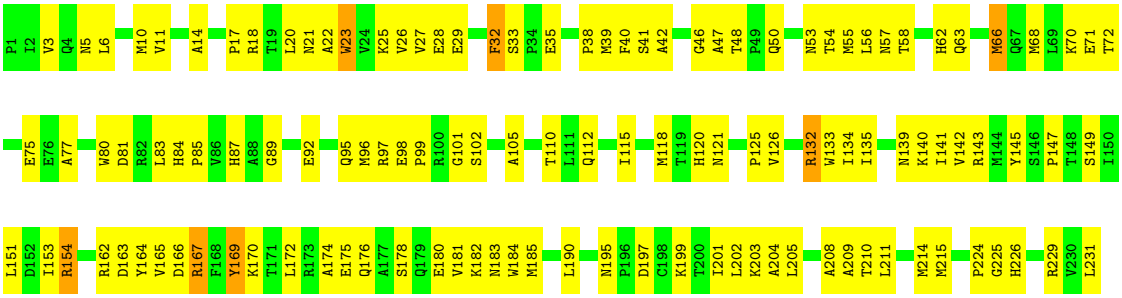
• Molecule 1: capsid protein

Chain f2:



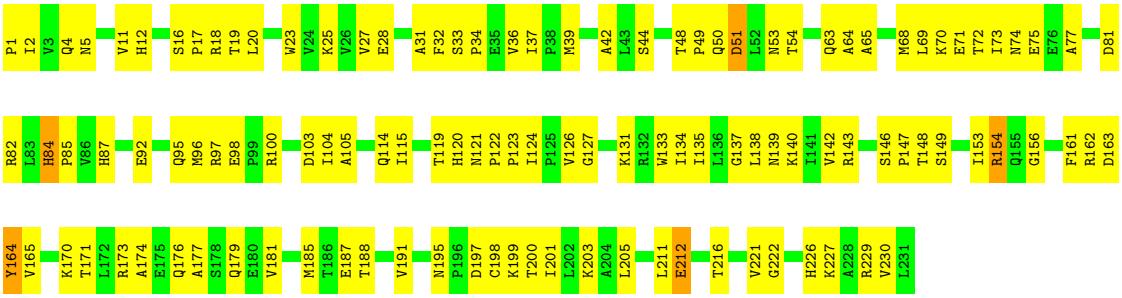
• Molecule 1: capsid protein

Chain f3:



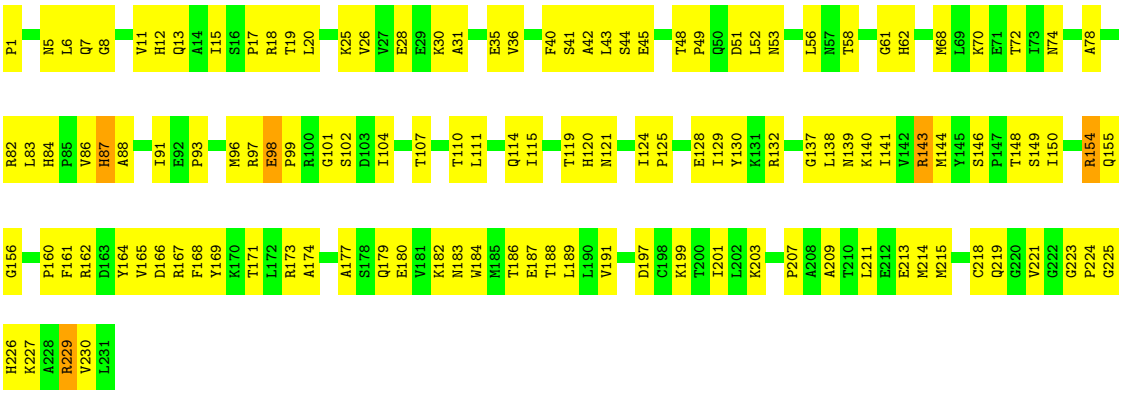
• Molecule 1: capsid protein

Chain f4:



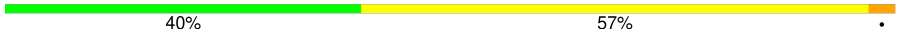
• Molecule 1: capsid protein

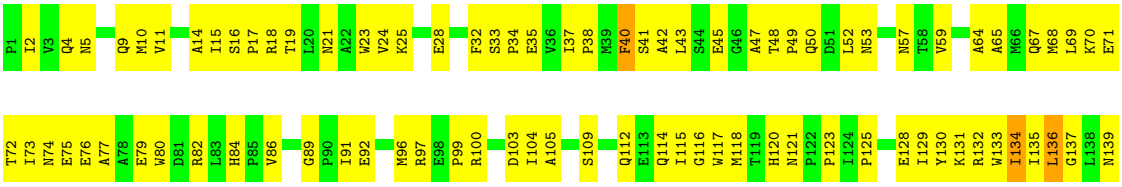
Chain f5:



• Molecule 1: capsid protein

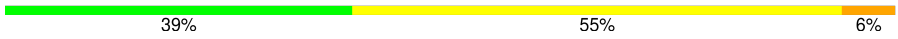
Chain f6:

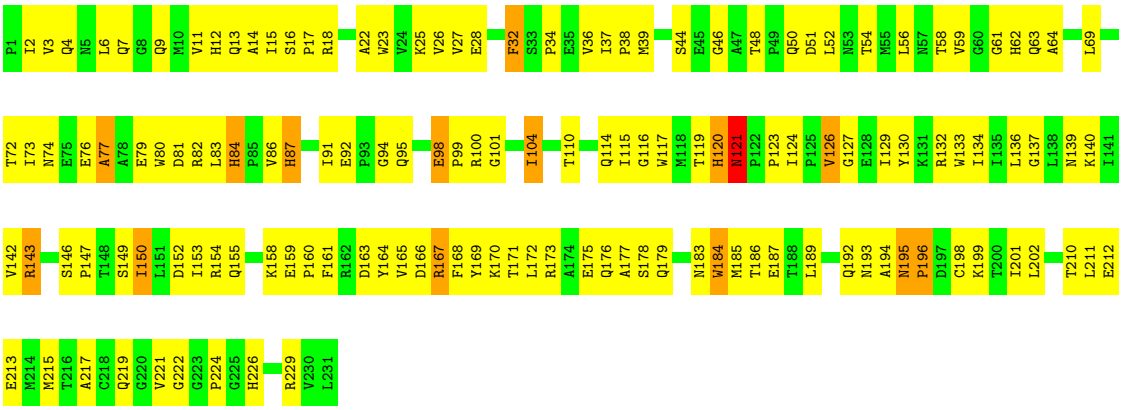




• Molecule 1: capsid protein

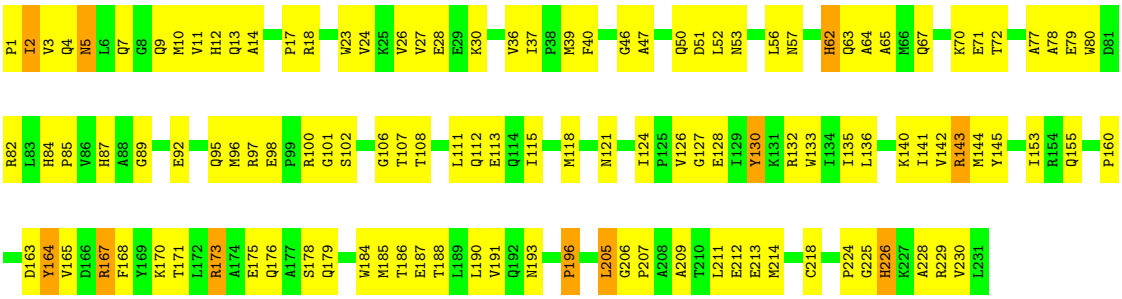
Chain f7:





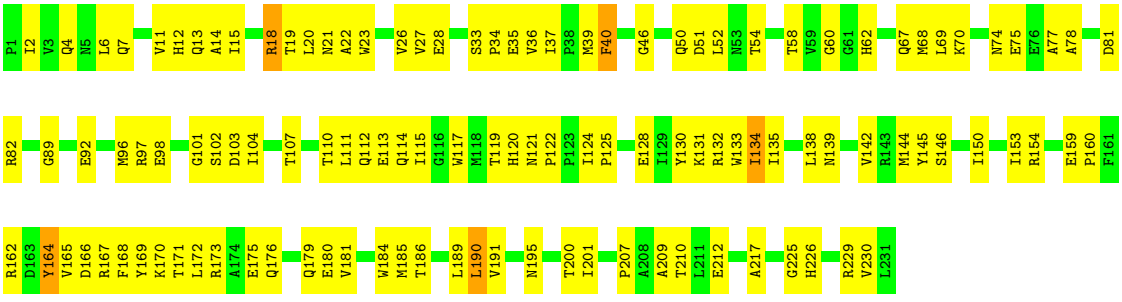
• Molecule 1: capsid protein

Chain f8:



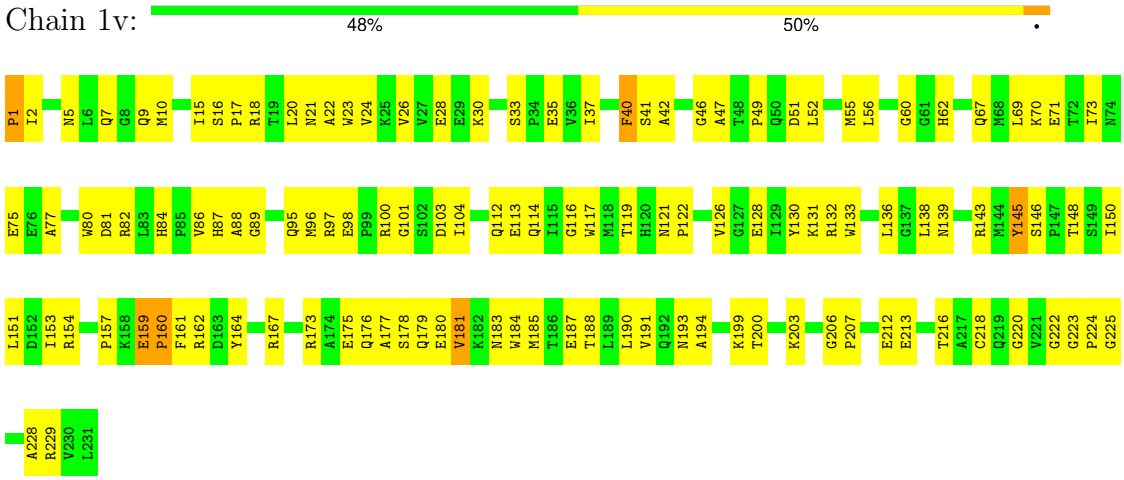
• Molecule 1: capsid protein

Chain f9:



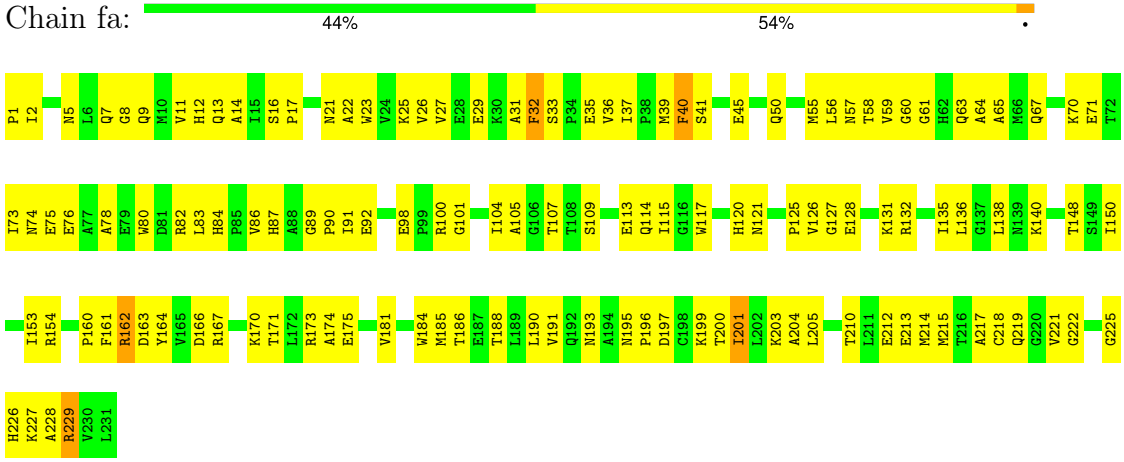
• Molecule 1: capsid protein

Chain 1v:



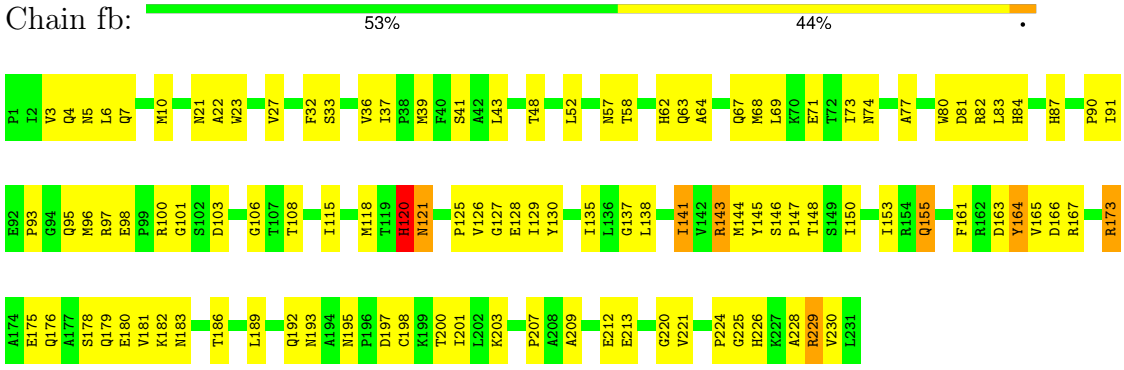
• Molecule 1: capsid protein

Chain fa:



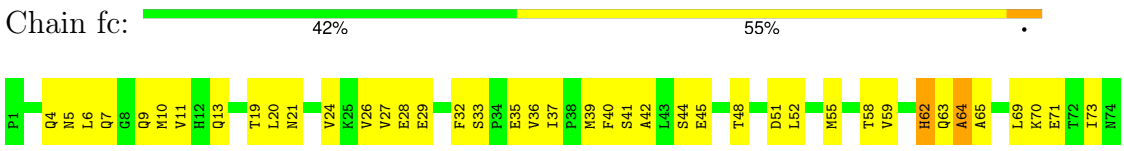
• Molecule 1: capsid protein

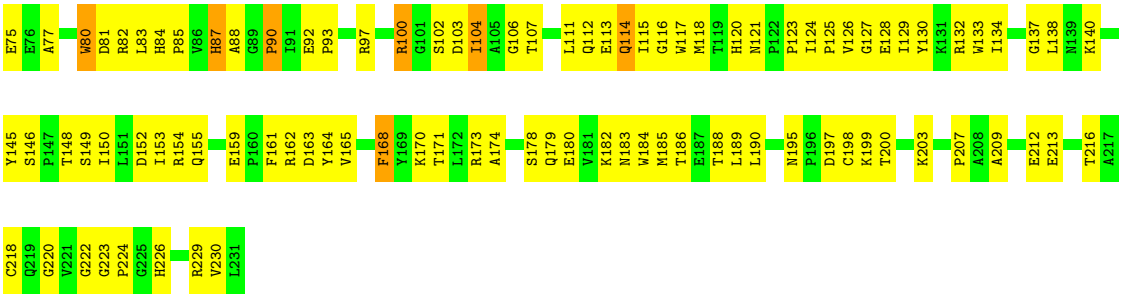
Chain fb:



• Molecule 1: capsid protein

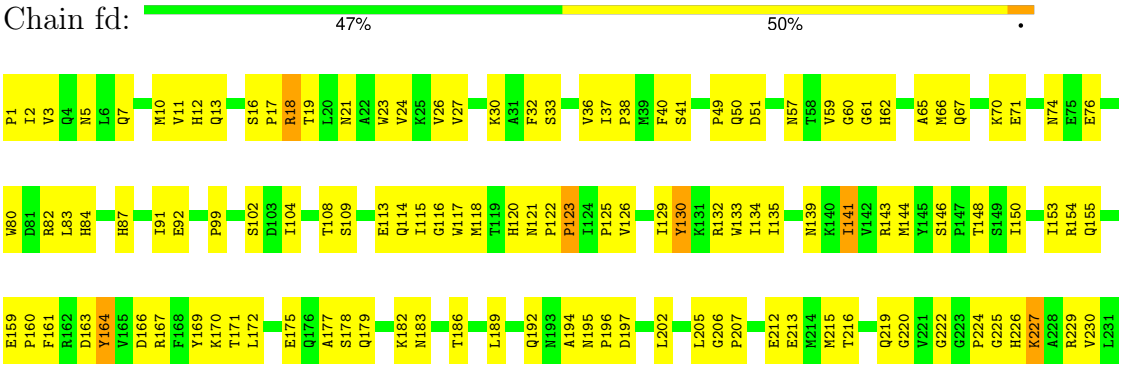
Chain fc:





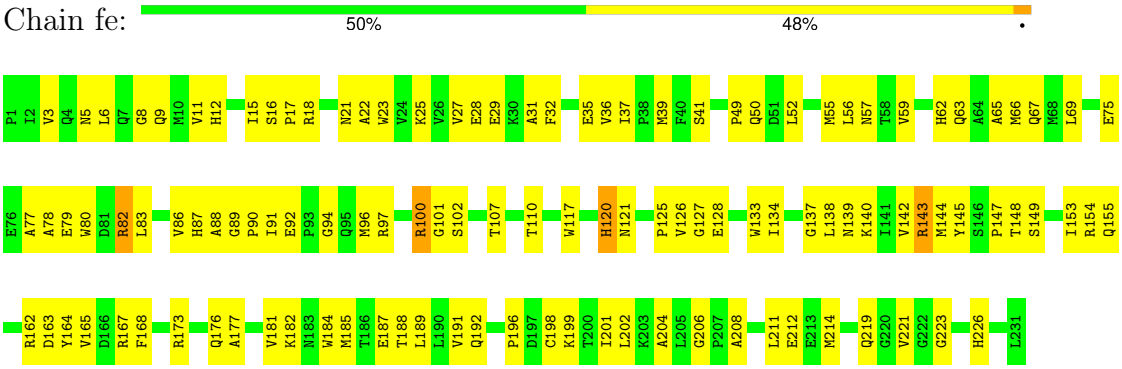
• Molecule 1: capsid protein

Chain fd:



• Molecule 1: capsid protein

Chain fe:

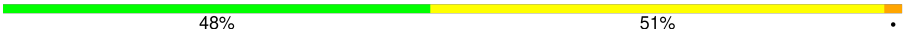


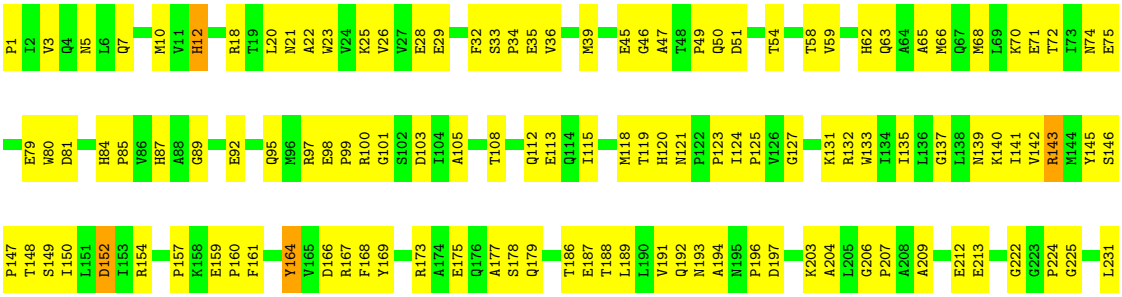
• Molecule 1: capsid protein

Chain ff:

• Molecule 1: capsid protein

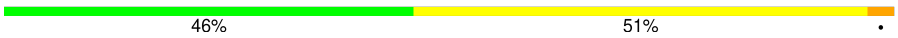
Chain fg:

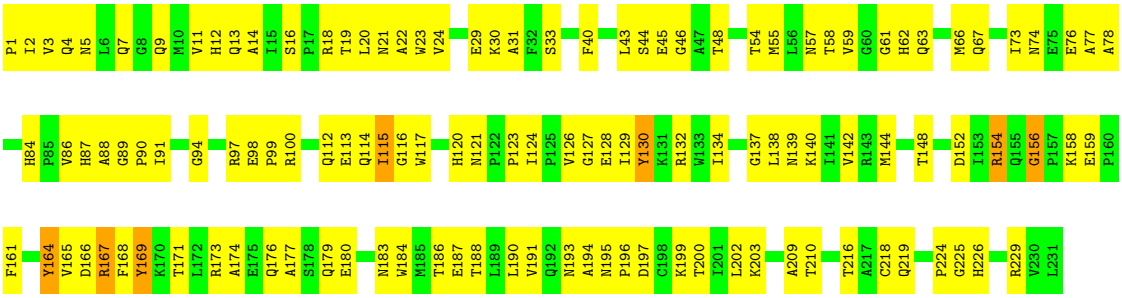




• Molecule 1: capsid protein

Chain fh:



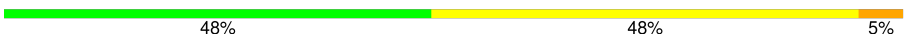


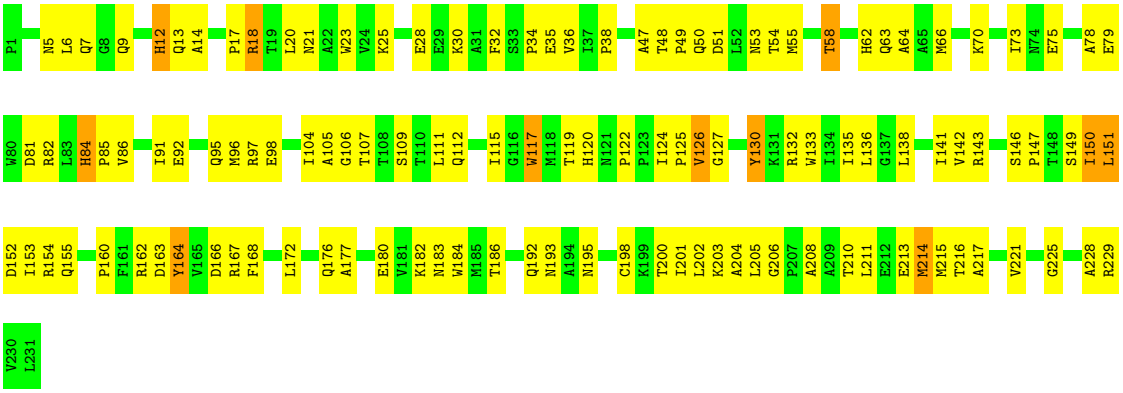
• Molecule 1: capsid protein

Chain fi:

• Molecule 1: capsid protein

Chain fj:



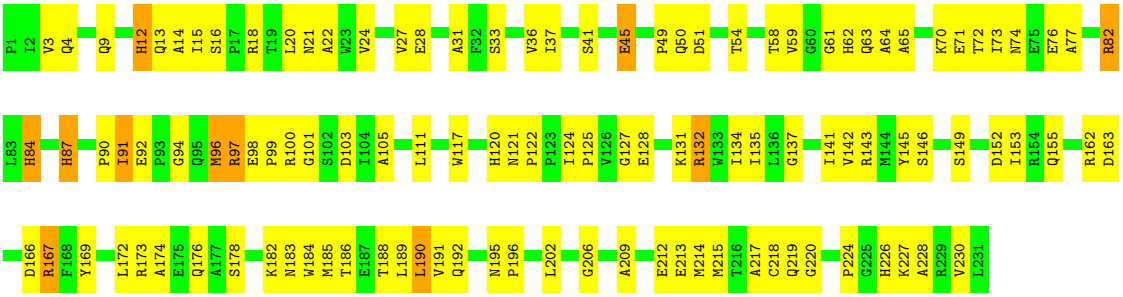


• Molecule 1: capsid protein

Chain 1w:

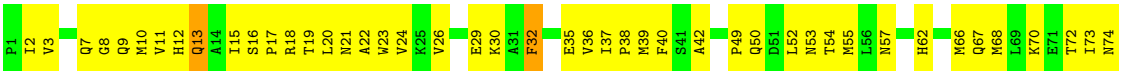
• Molecule 1: capsid protein

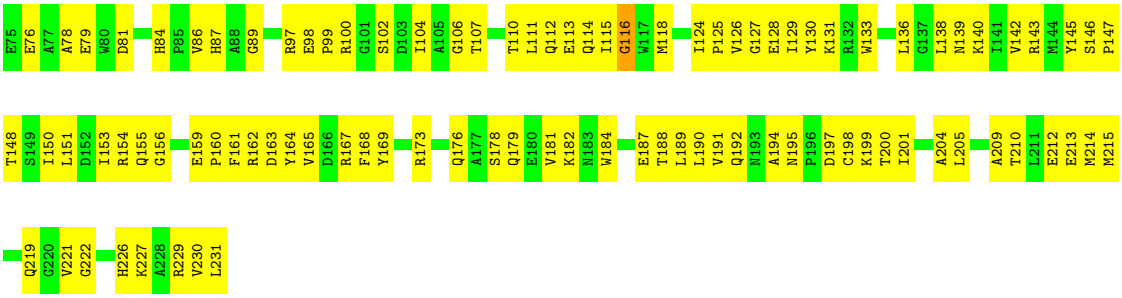
Chain fk:



• Molecule 1: capsid protein

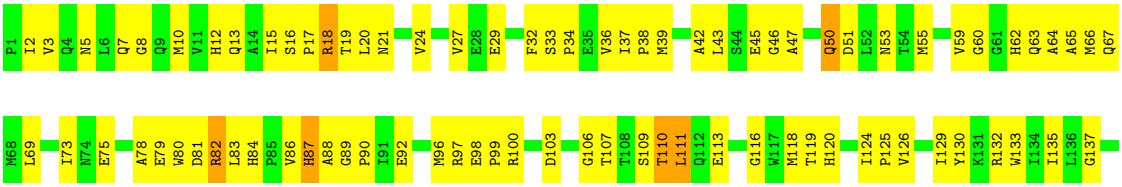
Chain fl:





• Molecule 1: capsid protein

Chain fm:

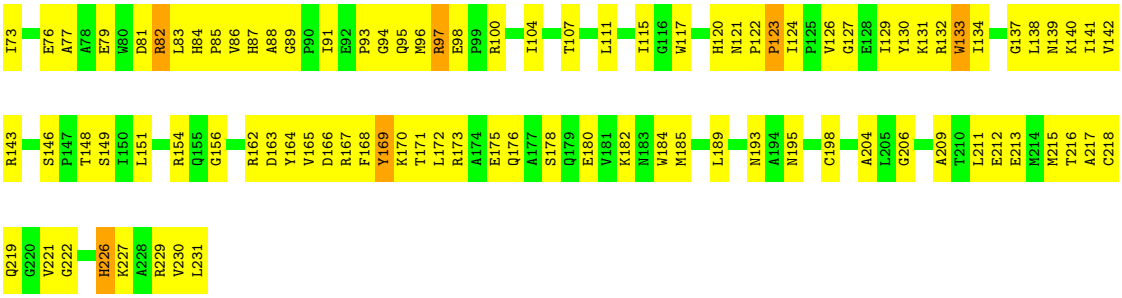


• Molecule 1: capsid protein

Chain fn:

• Molecule 1: capsid protein

Chain fo:

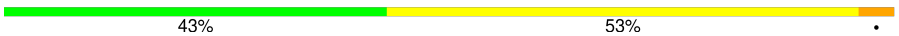


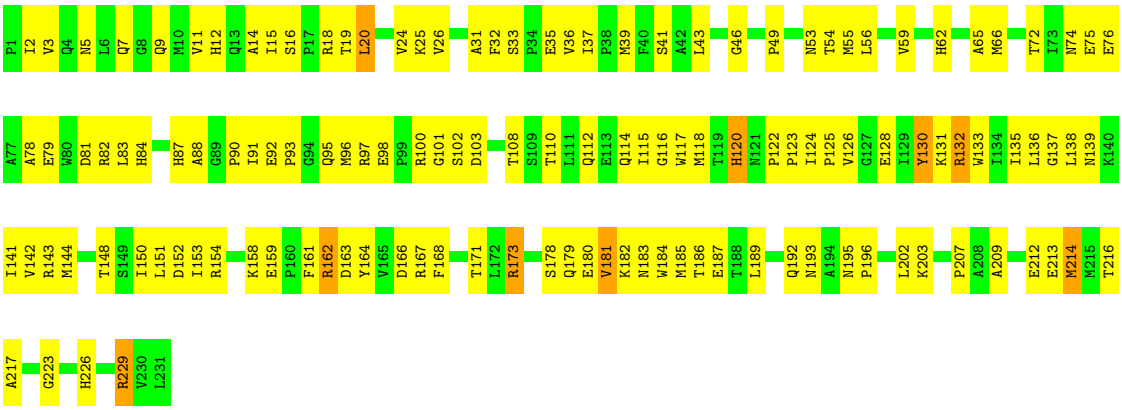
• Molecule 1: capsid protein

Chain fp:

• Molecule 1: capsid protein

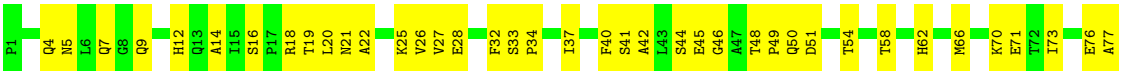
Chain fq:

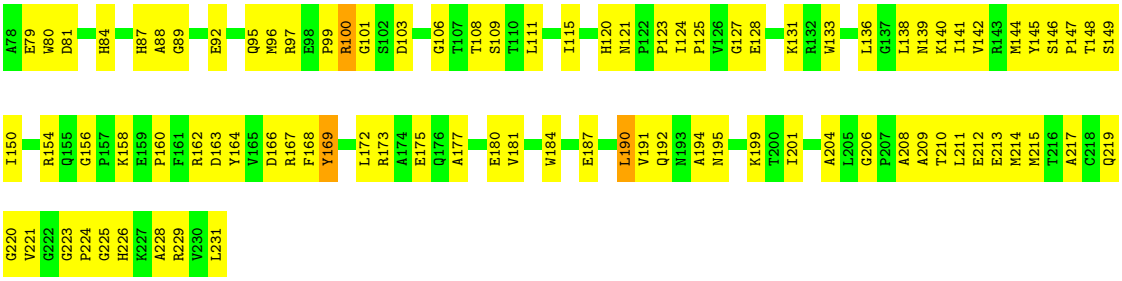




• Molecule 1: capsid protein

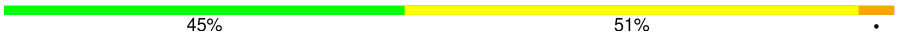
Chain fr:

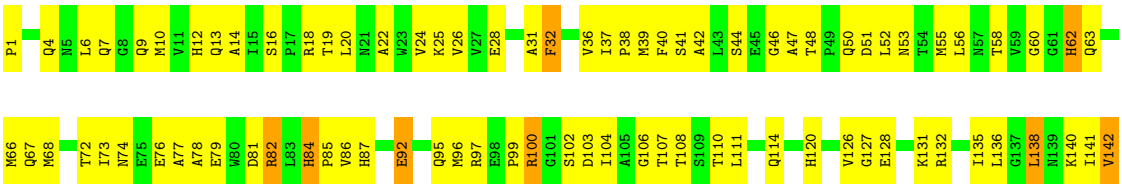




• Molecule 1: capsid protein

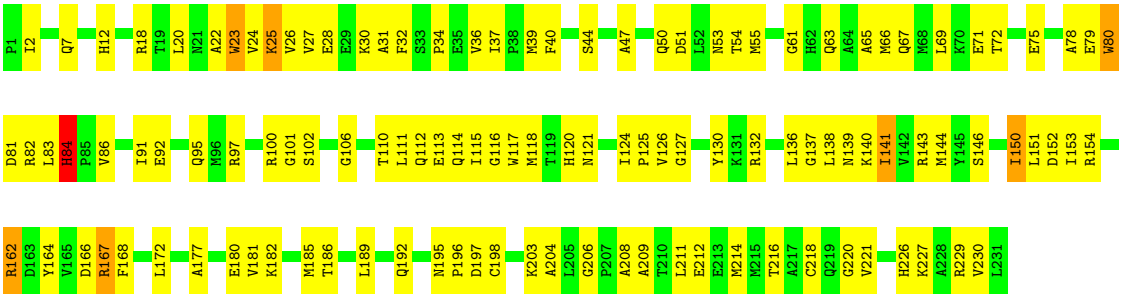
Chain fs:





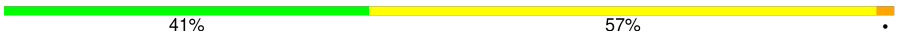
• Molecule 1: capsid protein

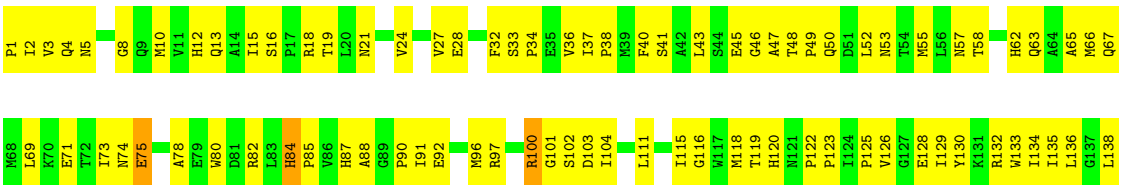
Chain ft:

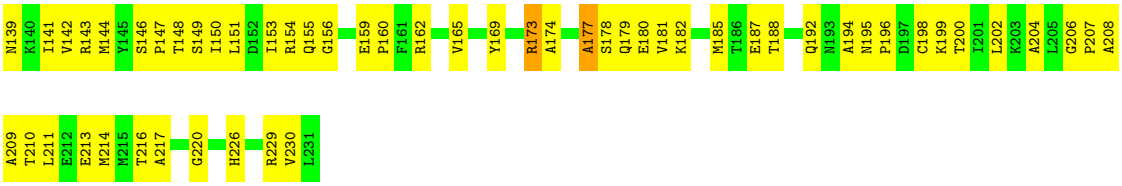


• Molecule 1: capsid protein

Chain 1x:

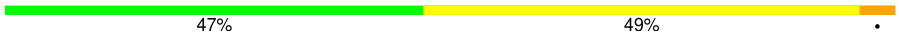


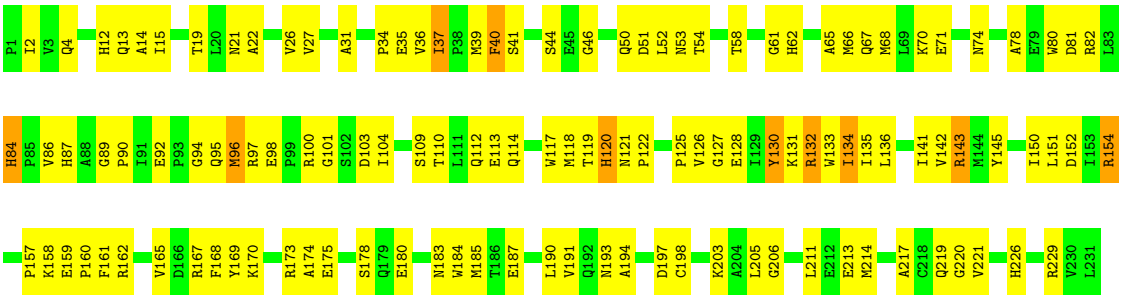




• Molecule 1: capsid protein

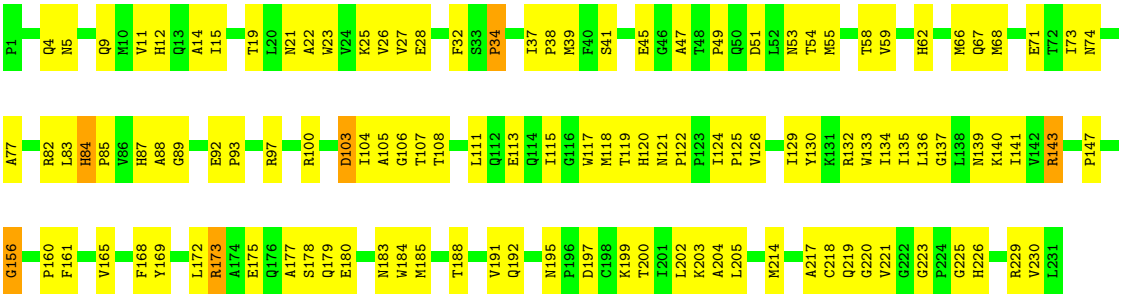
Chain fu:





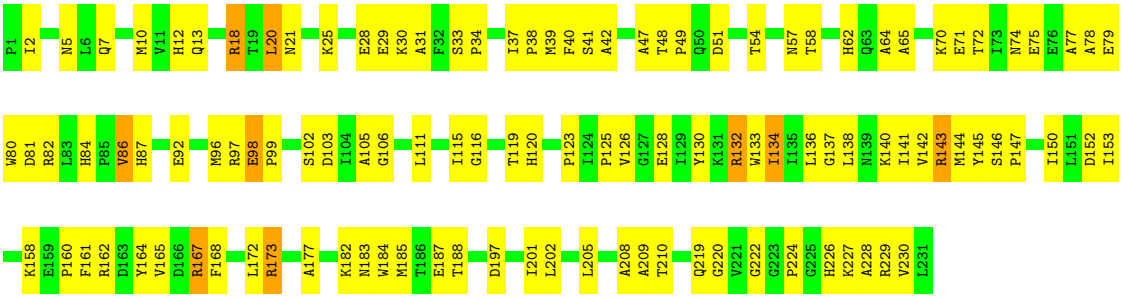
• Molecule 1: capsid protein

Chain fv:



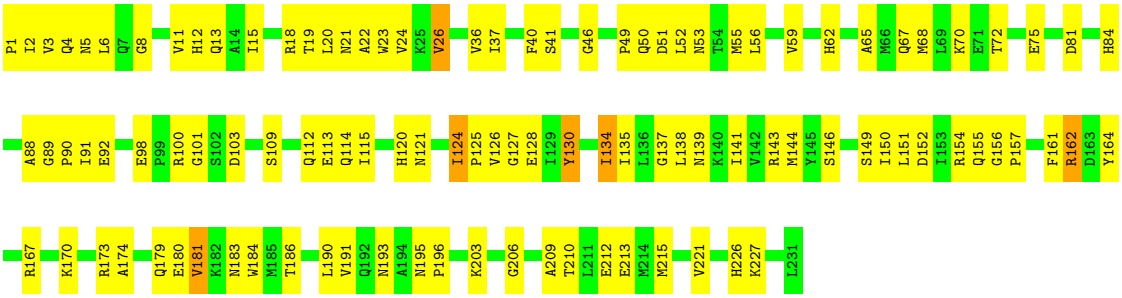
• Molecule 1: capsid protein

Chain fw:



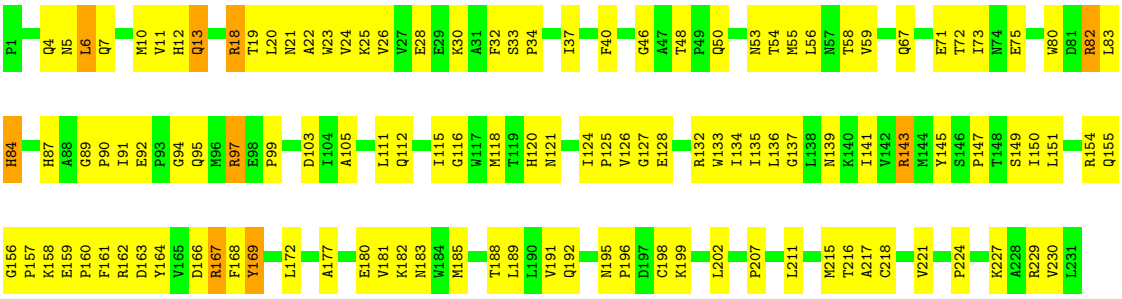
• Molecule 1: capsid protein

Chain fx:



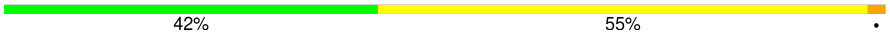
• Molecule 1: capsid protein

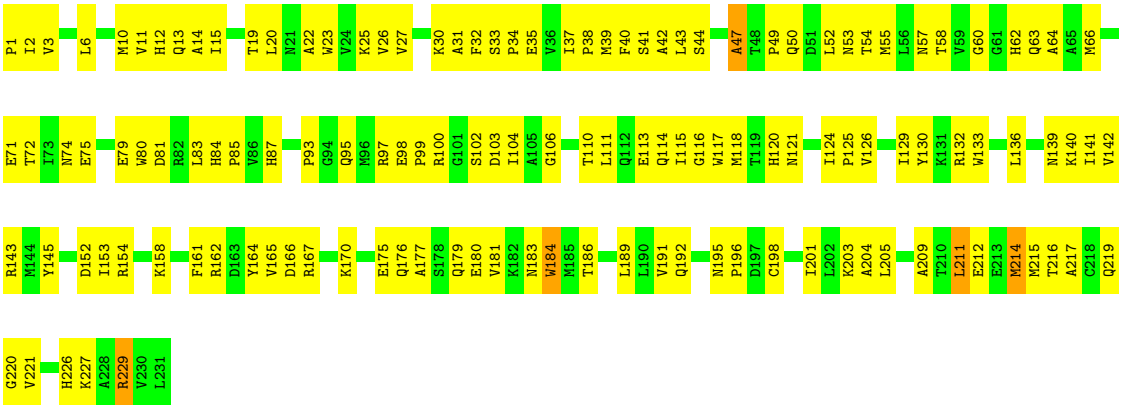
Chain fy:



• Molecule 1: capsid protein

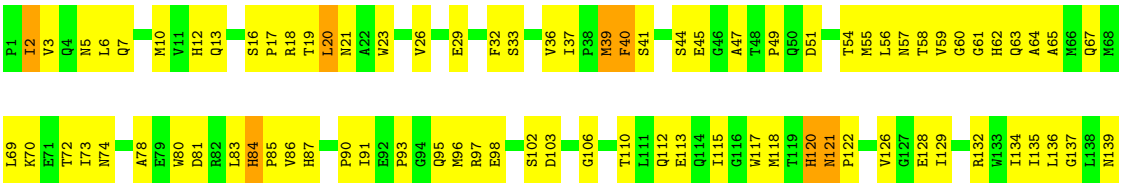
Chain fz:

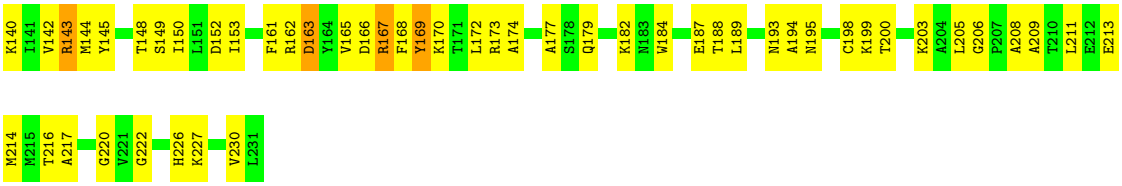




• Molecule 1: capsid protein

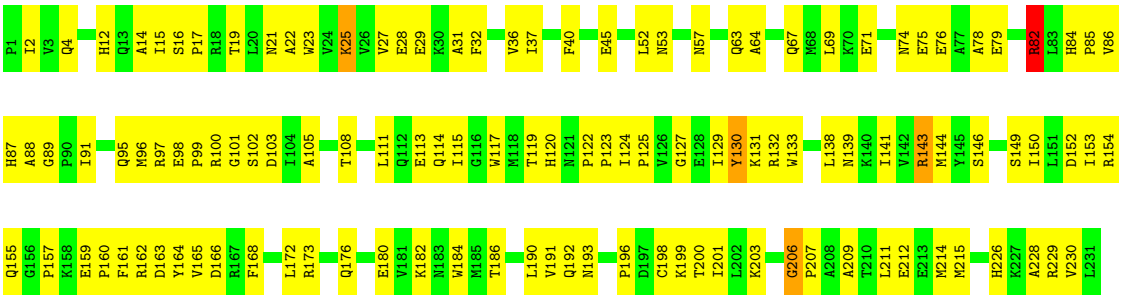
Chain fA:





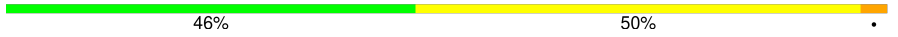
• Molecule 1: capsid protein

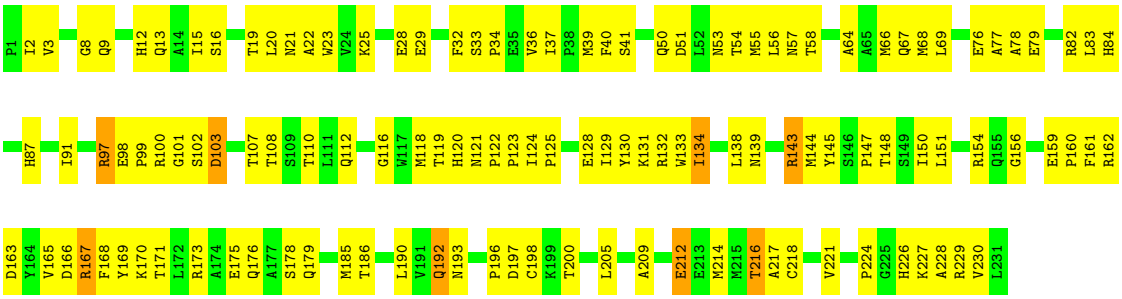
Chain fB:



• Molecule 1: capsid protein

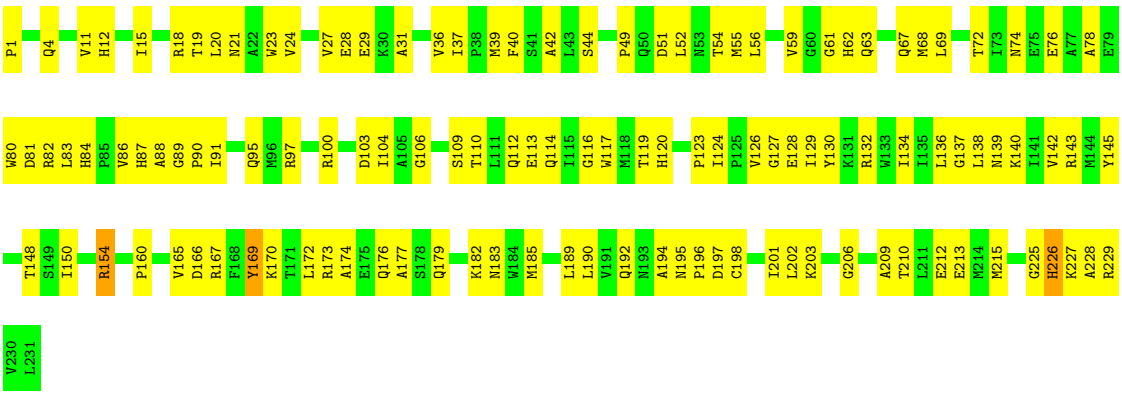
Chain fC:





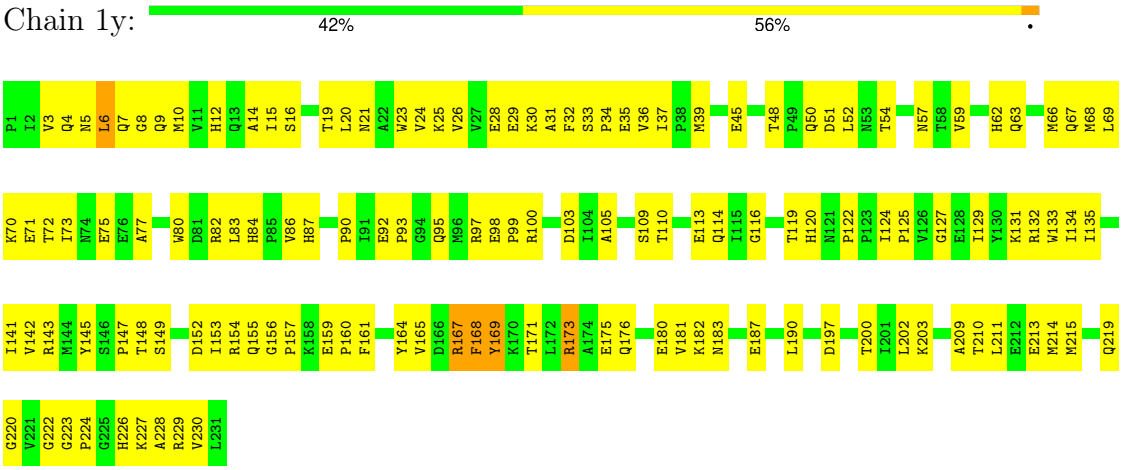
• Molecule 1: capsid protein

Chain fD:



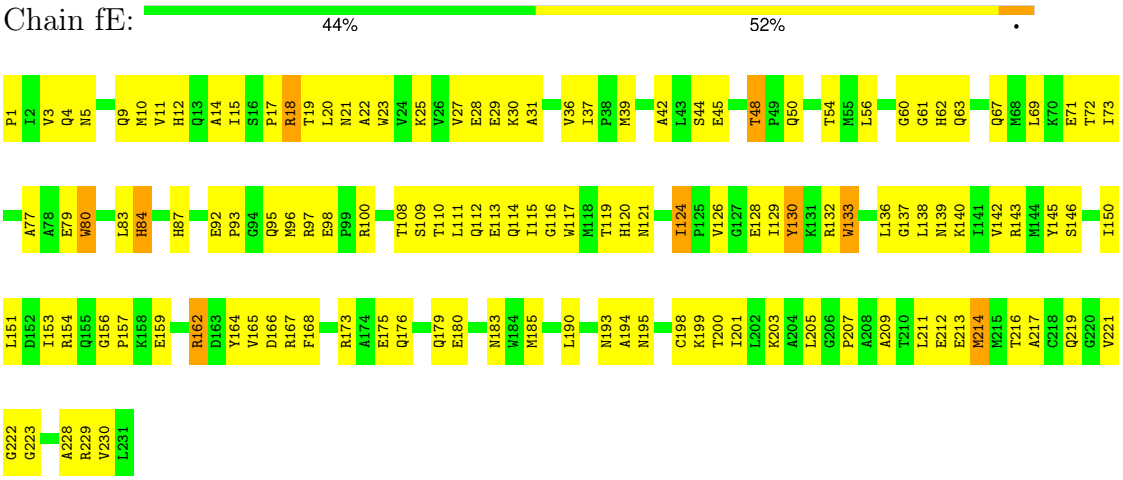
• Molecule 1: capsid protein

Chain 1y:



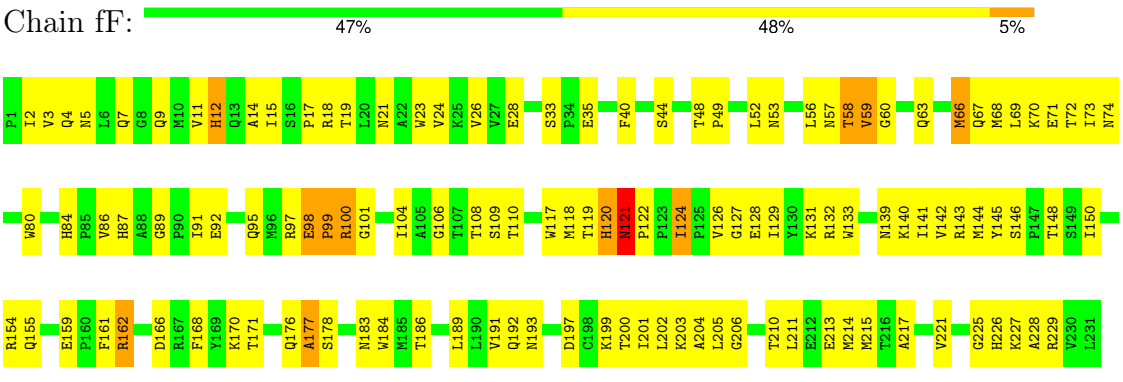
• Molecule 1: capsid protein

Chain fE:



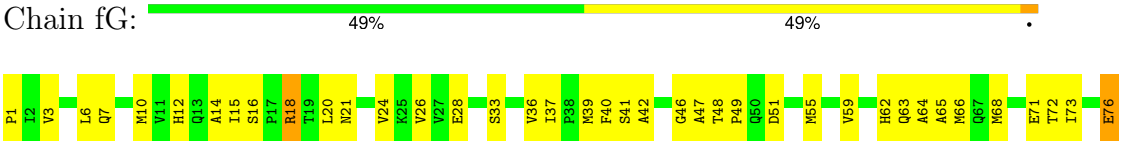
• Molecule 1: capsid protein

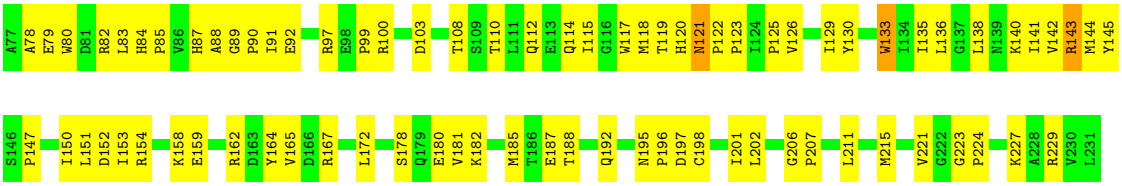
Chain fF:



• Molecule 1: capsid protein

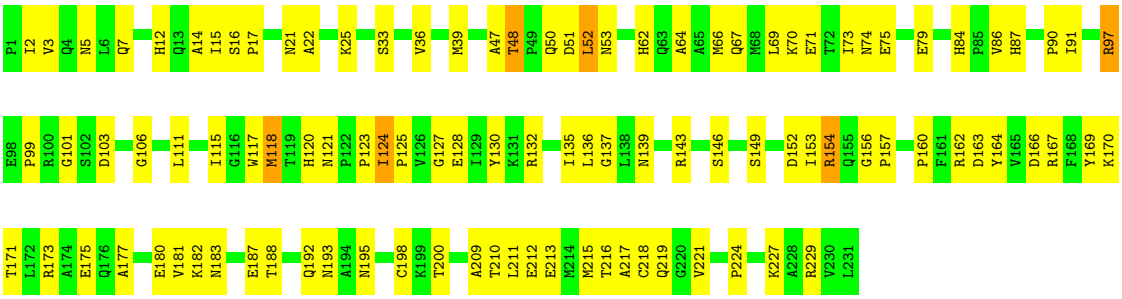
Chain fG:





• Molecule 1: capsid protein

Chain fH:

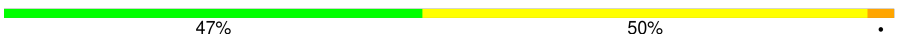


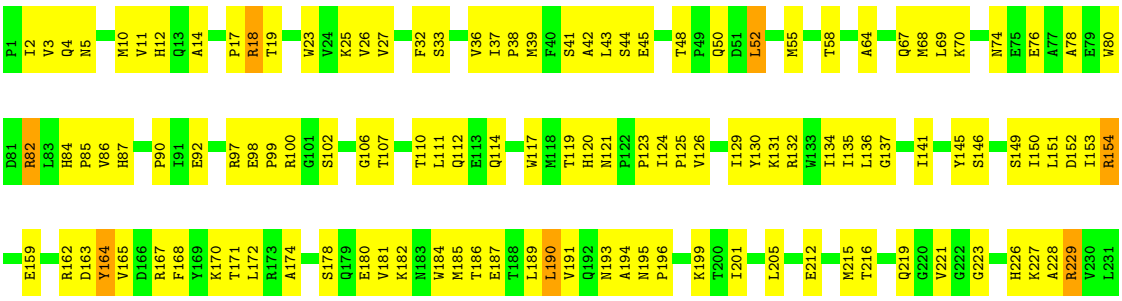
• Molecule 1: capsid protein

Chain fI:

• Molecule 1: capsid protein

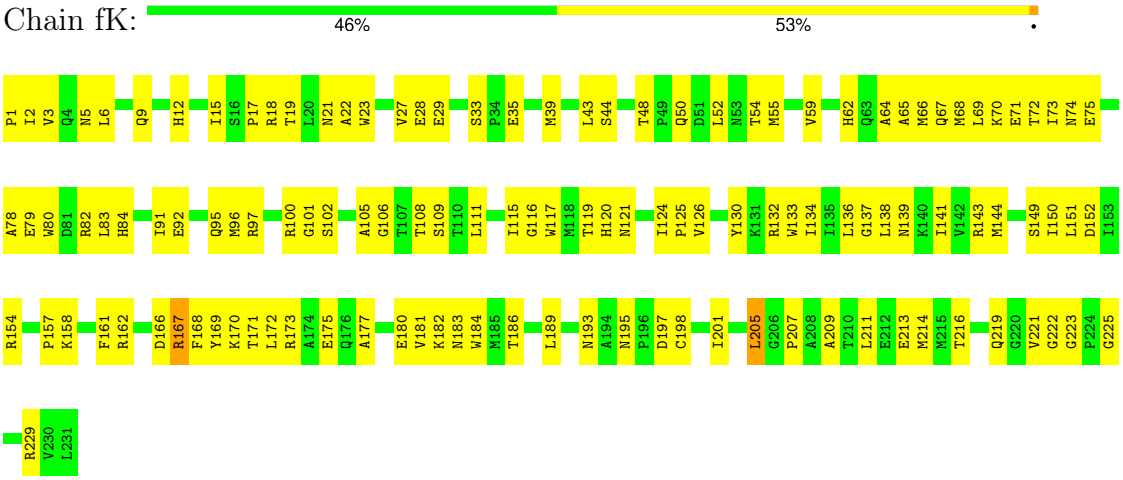
Chain fJ:





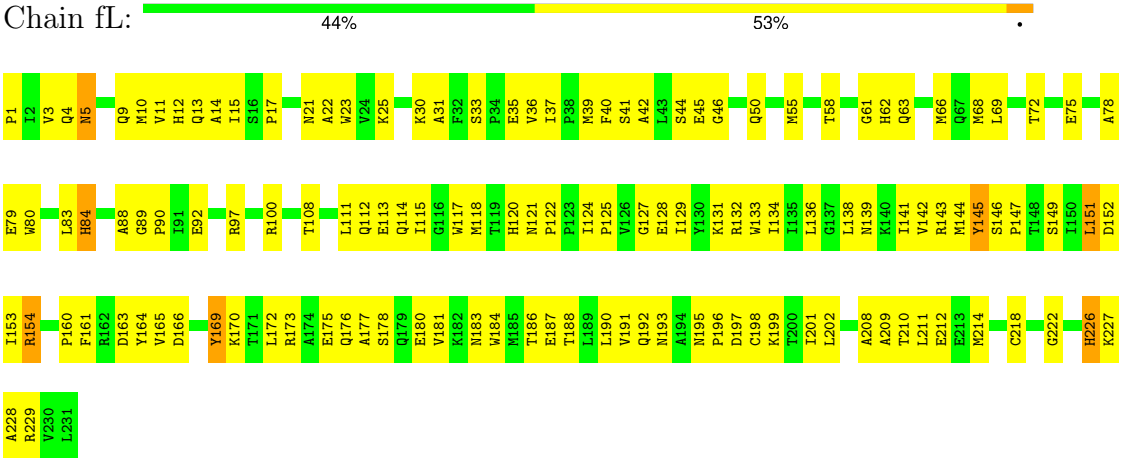
• Molecule 1: capsid protein

Chain fK:



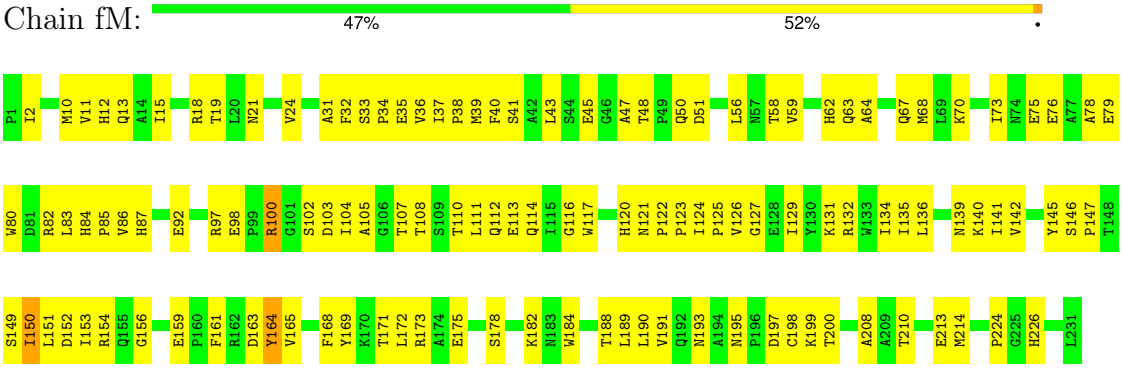
• Molecule 1: capsid protein

Chain fL:



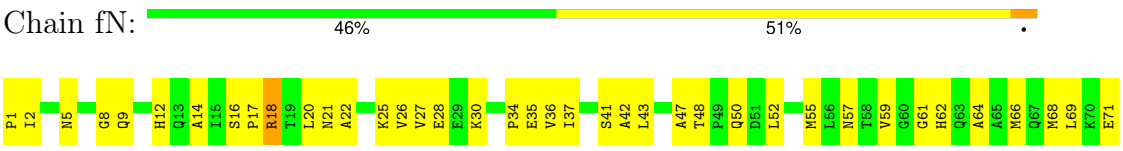
• Molecule 1: capsid protein

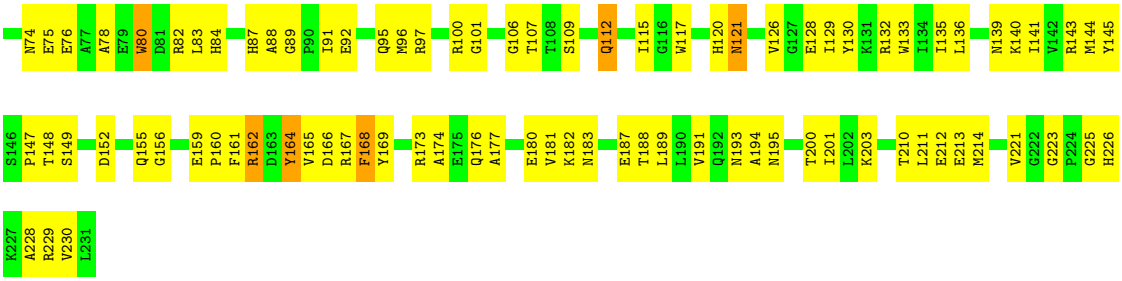
Chain fM:



• Molecule 1: capsid protein

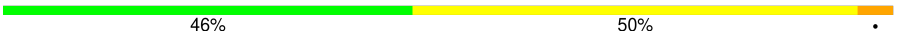
Chain fN:

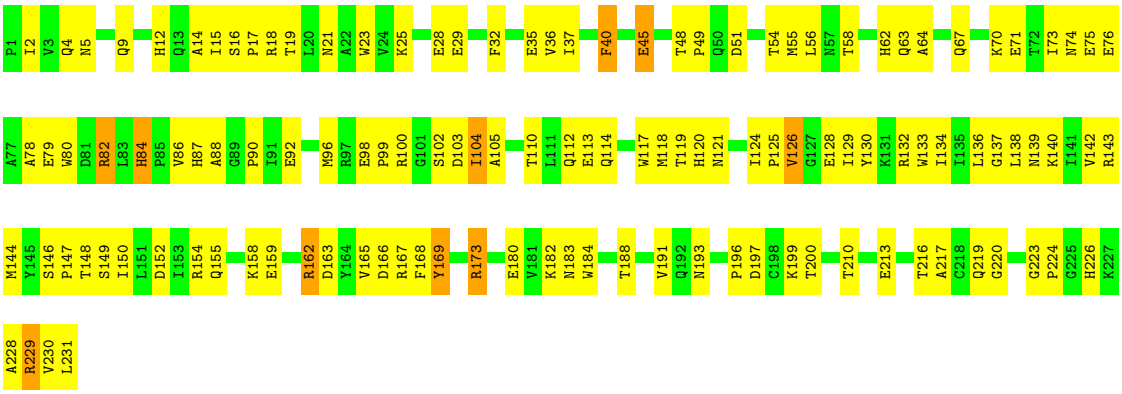




• Molecule 1: capsid protein

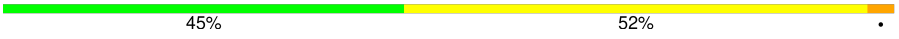
Chain 1z:

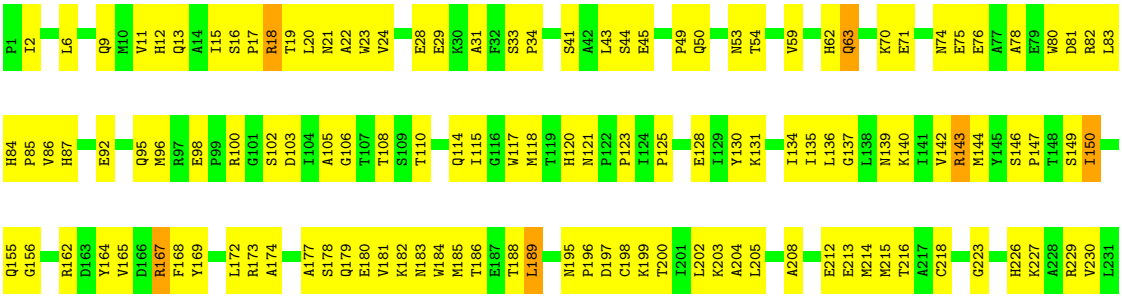




• Molecule 1: capsid protein

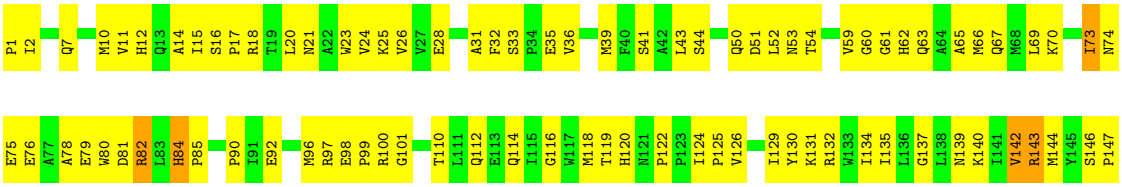
Chain fO:

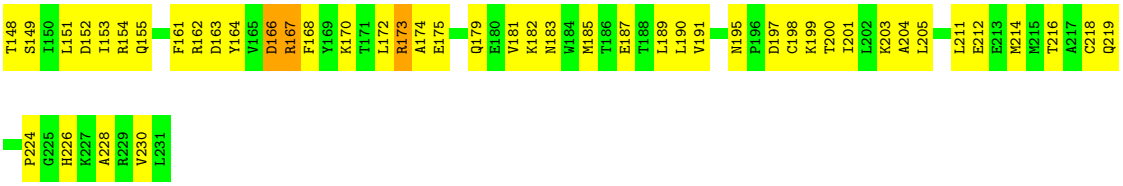




• Molecule 1: capsid protein

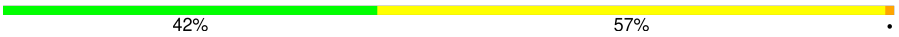
Chain fP:

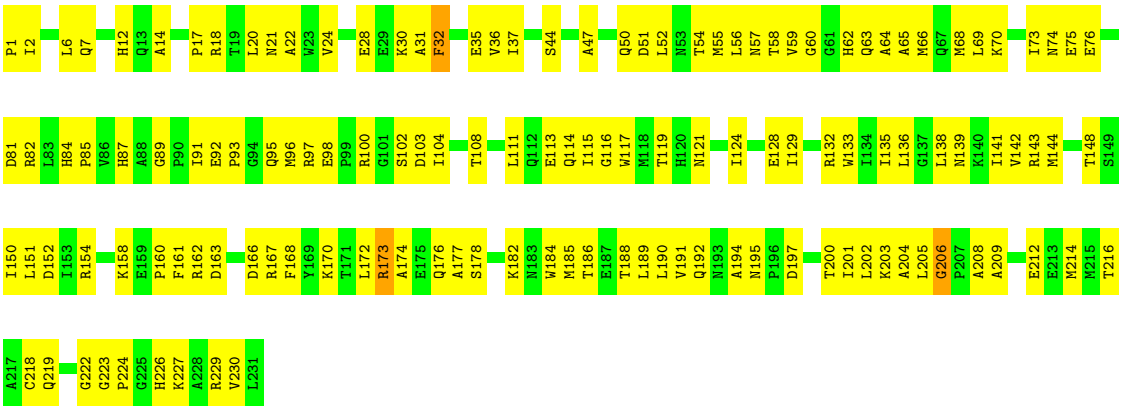




• Molecule 1: capsid protein

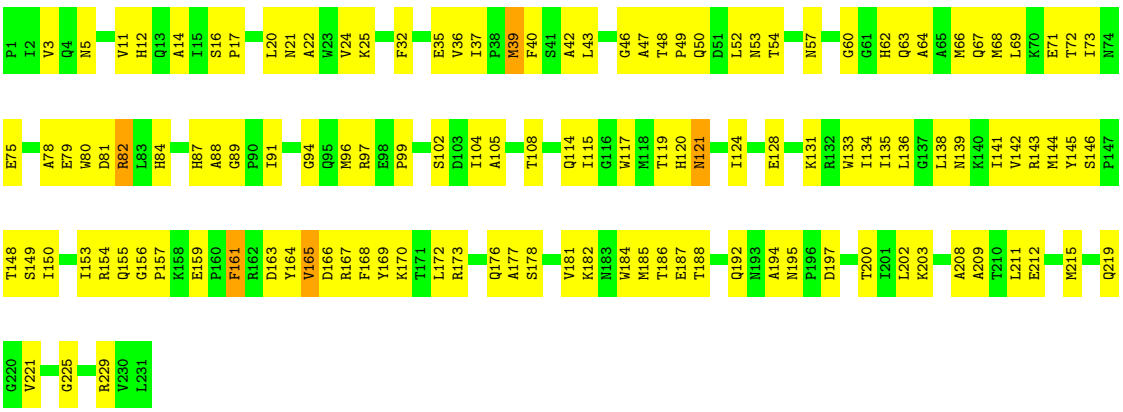
Chain fQ:





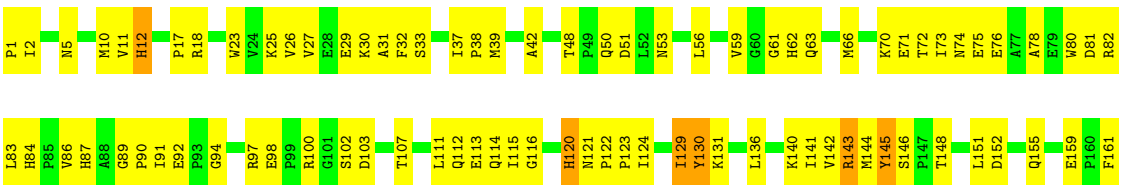
• Molecule 1: capsid protein

Chain fR:



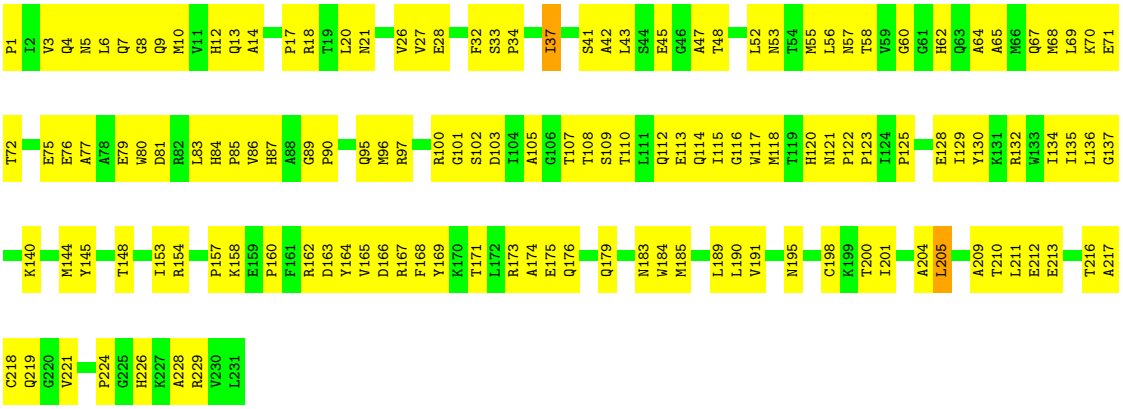
• Molecule 1: capsid protein

Chain fS:



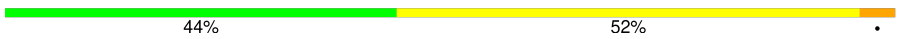
• Molecule 1: capsid protein

Chain fT:



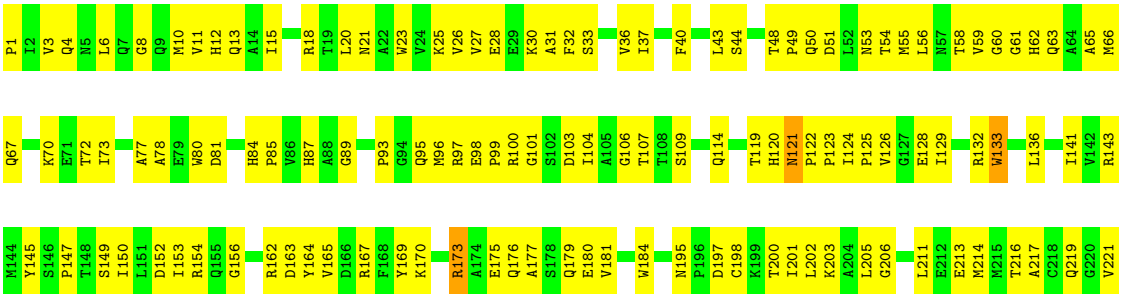
• Molecule 1: capsid protein

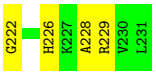
Chain fU:



• Molecule 1: capsid protein

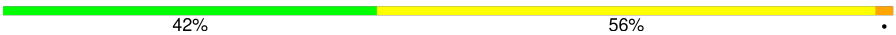
Chain fV:

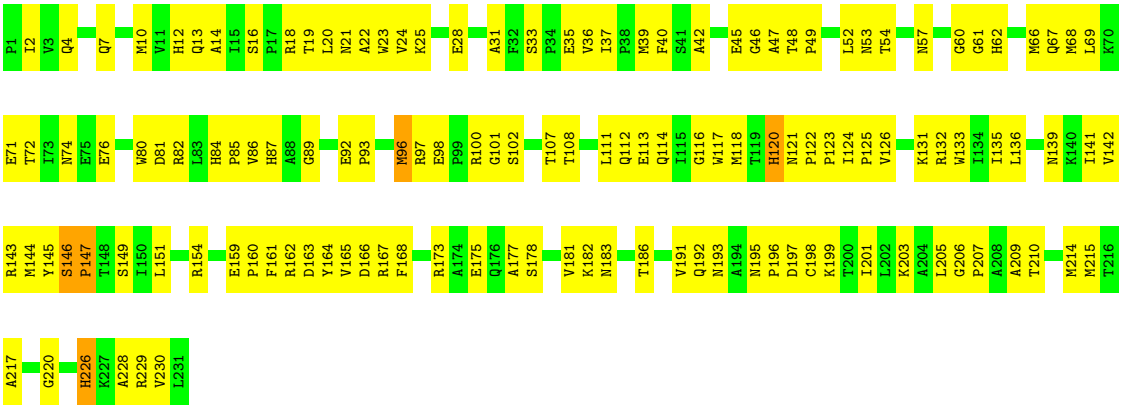




• Molecule 1: capsid protein

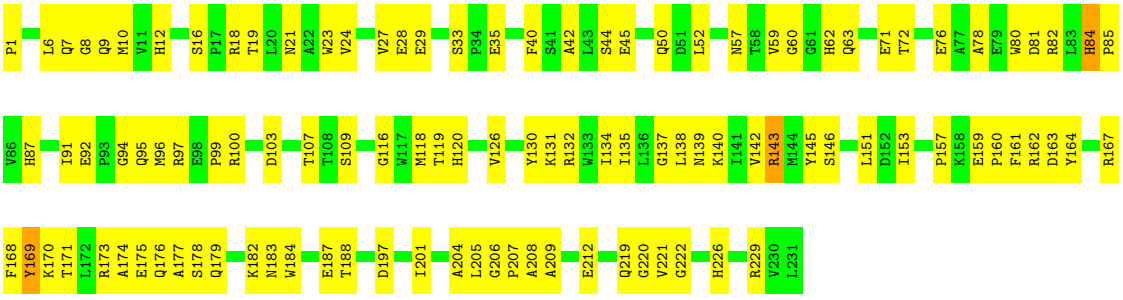
Chain fW:





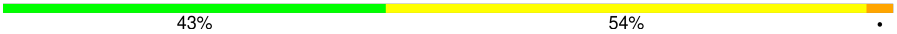
• Molecule 1: capsid protein

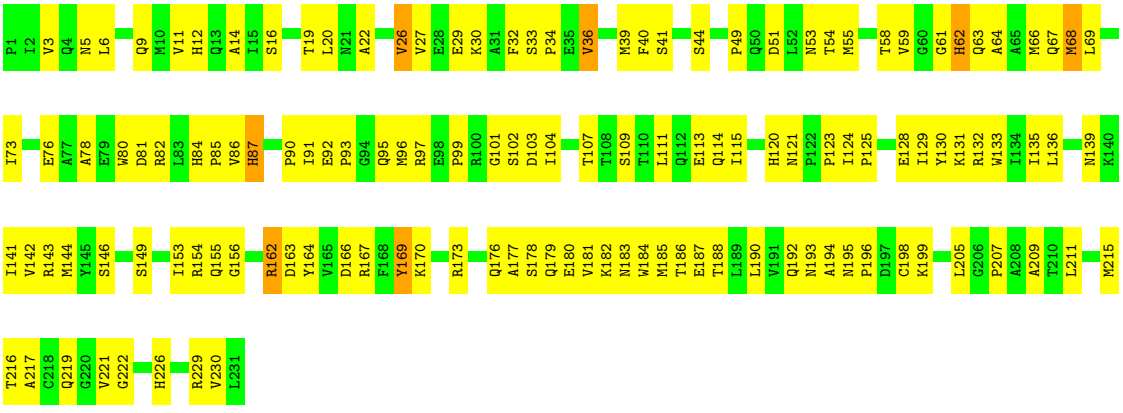
Chain fX:



• Molecule 1: capsid protein

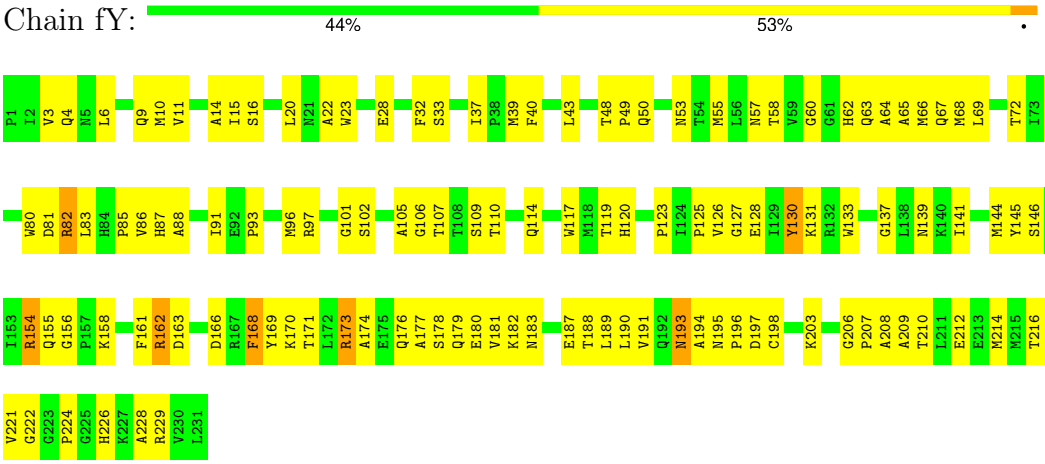
Chain 1A:





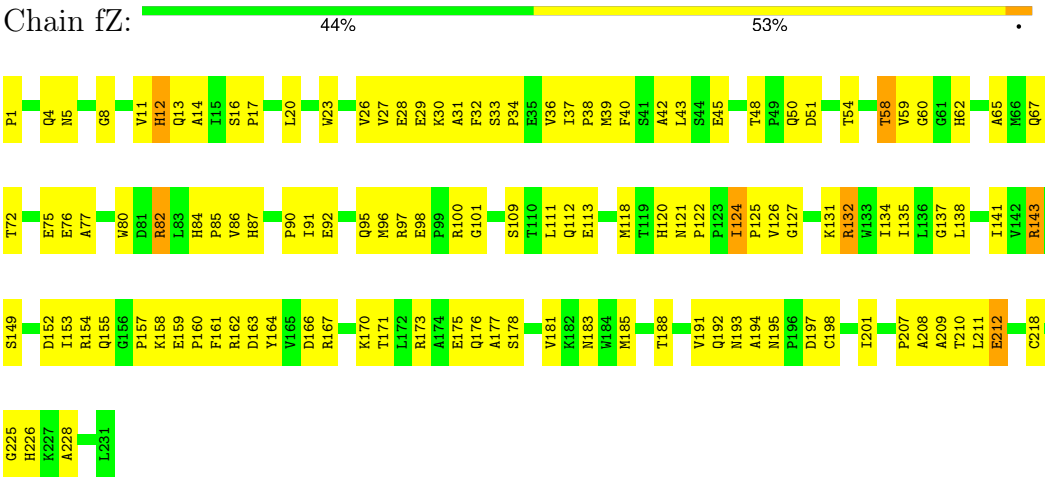
• Molecule 1: capsid protein

Chain fY:



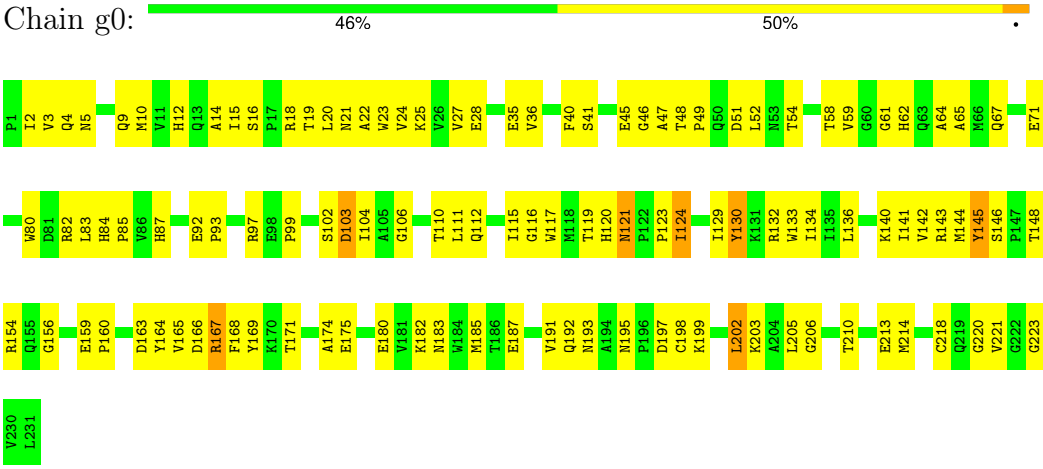
• Molecule 1: capsid protein

Chain fZ:



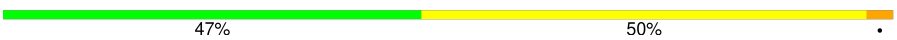
• Molecule 1: capsid protein

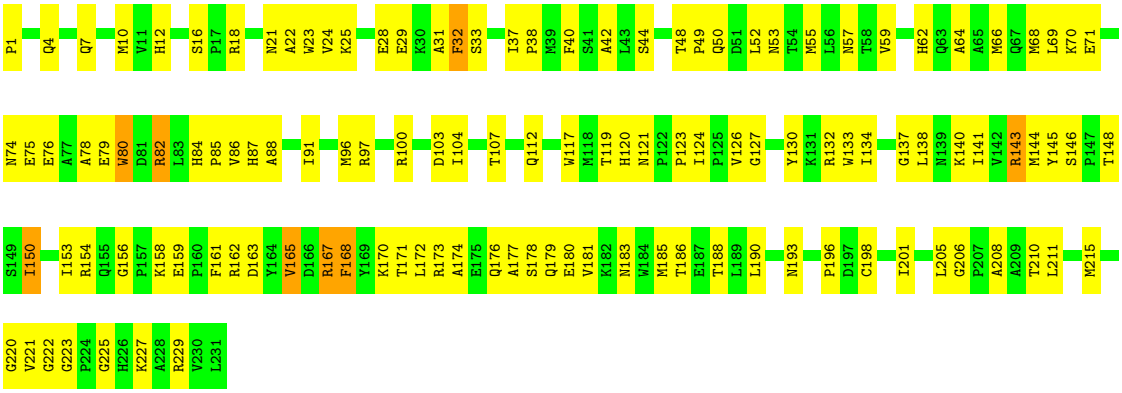
Chain g0:



• Molecule 1: capsid protein

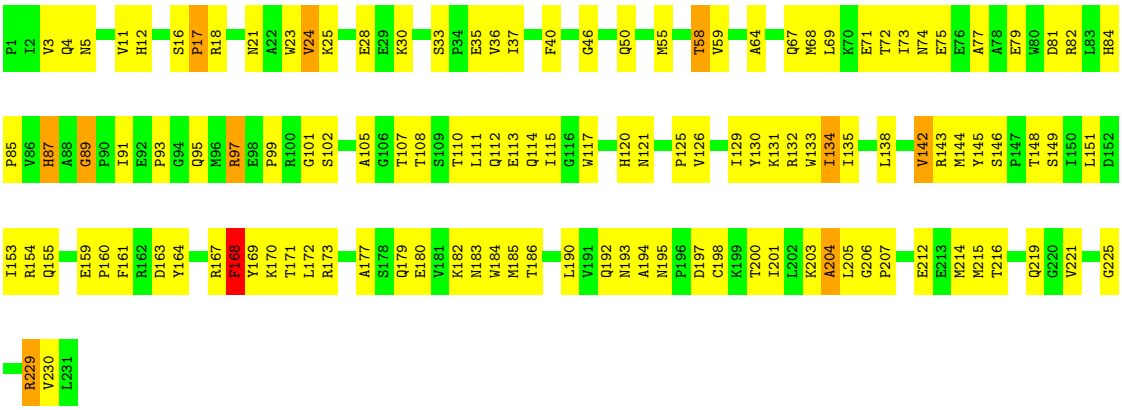
Chain g1:





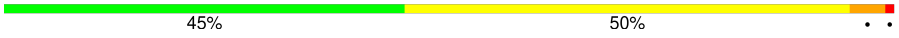
• Molecule 1: capsid protein

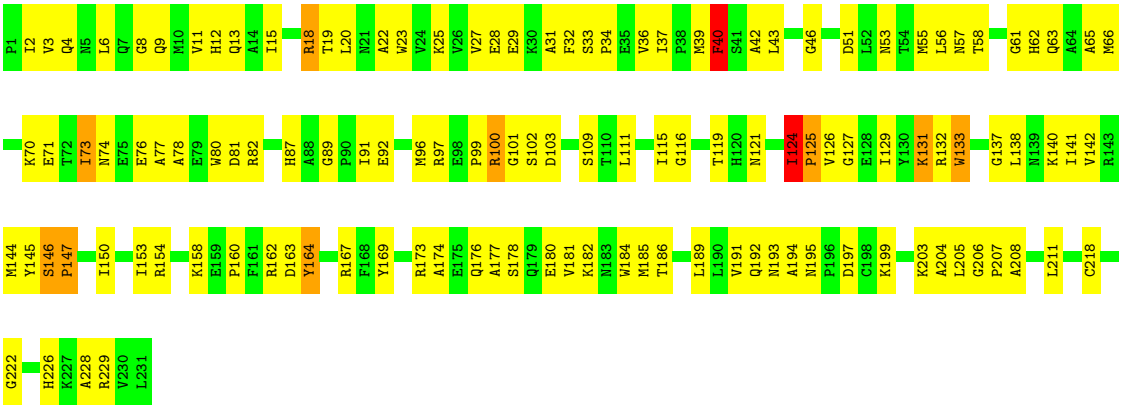
Chain g2:



• Molecule 1: capsid protein

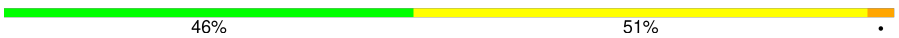
Chain g3:

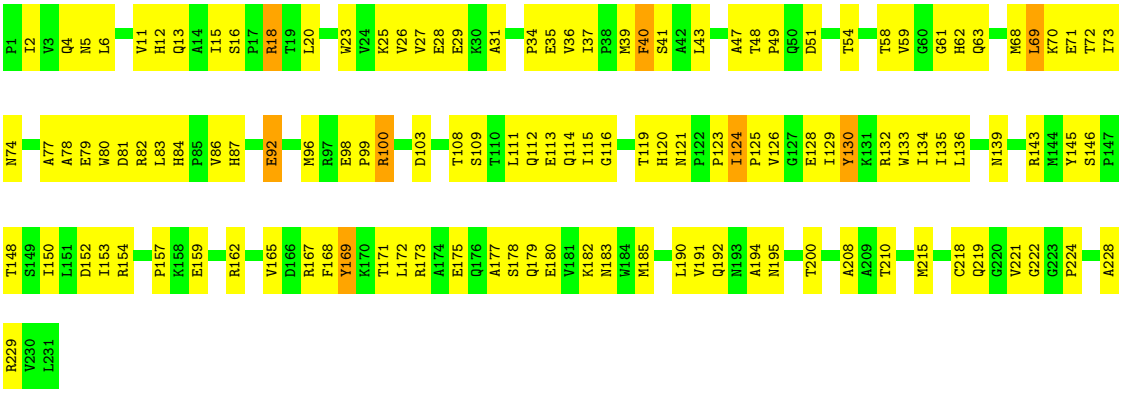




• Molecule 1: capsid protein

Chain g4:



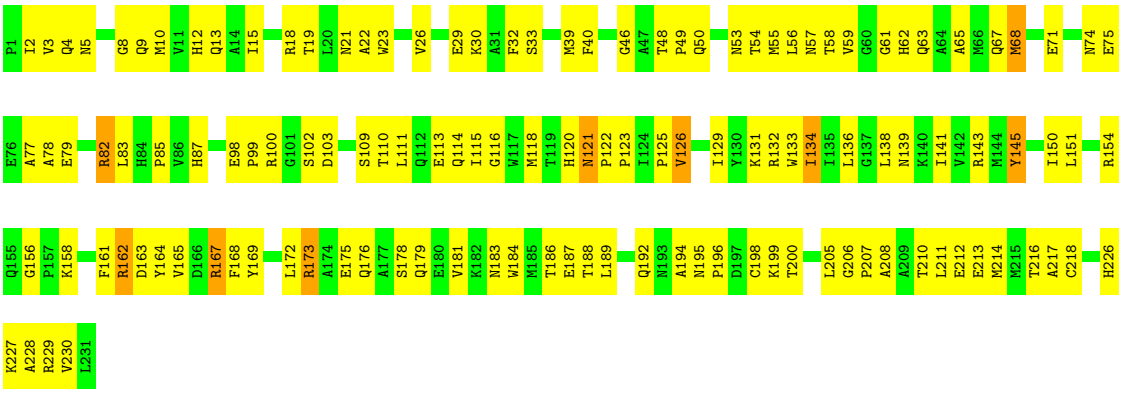


• Molecule 1: capsid protein

Chain g5:

• Molecule 1: capsid protein

Chain g6:

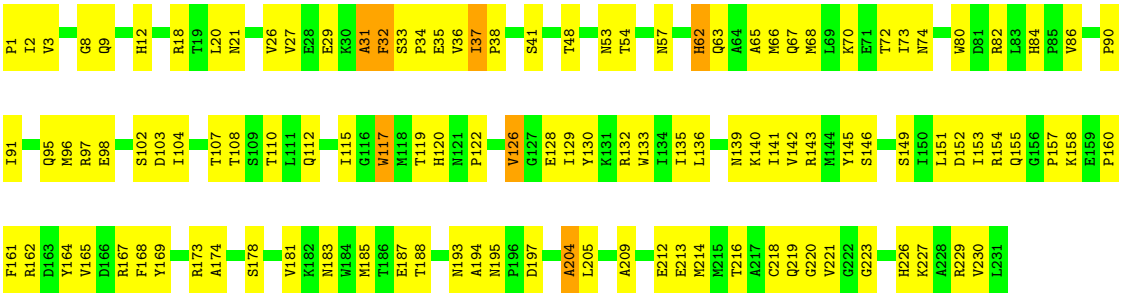


• Molecule 1: capsid protein

Chain g7:

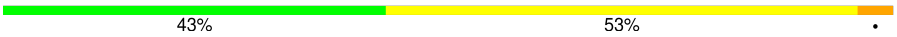
• Molecule 1: capsid protein

Chain 1B:



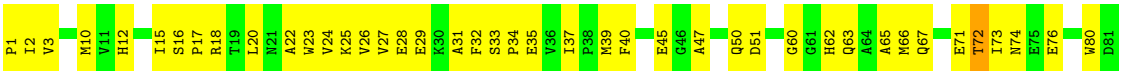
• Molecule 1: capsid protein

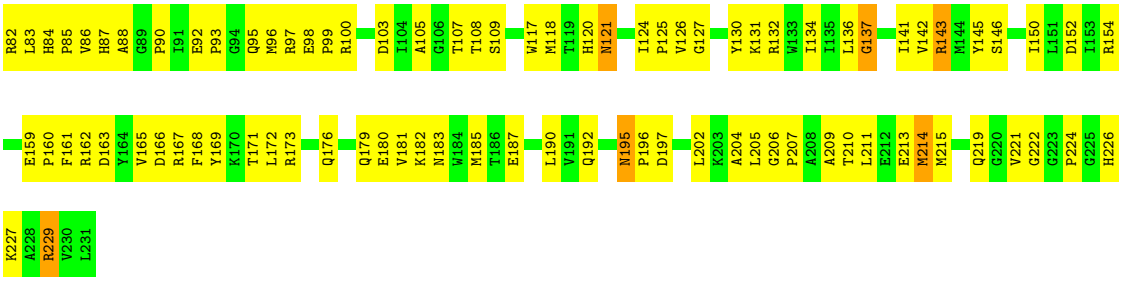
Chain 0:



• Molecule 1: capsid protein

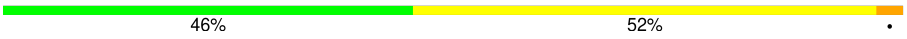
Chain a:

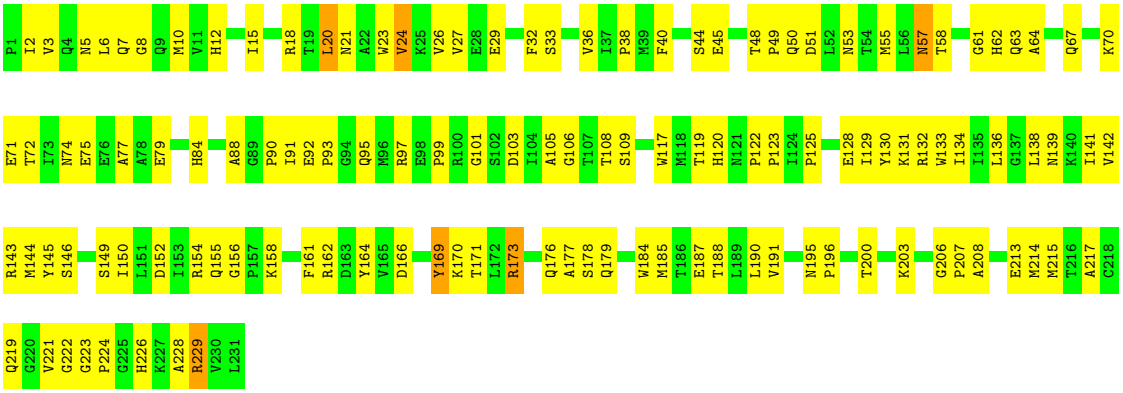




• Molecule 1: capsid protein

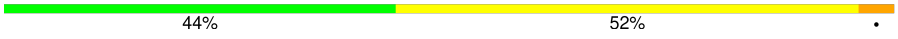
Chain b:

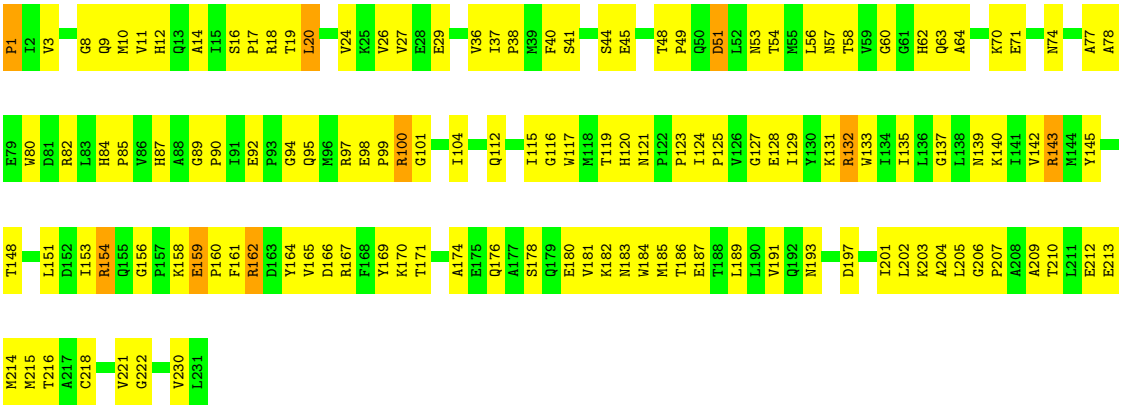




• Molecule 1: capsid protein

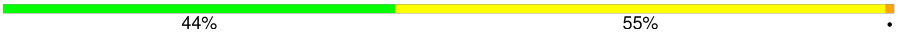
Chain c:

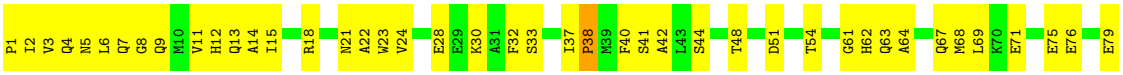


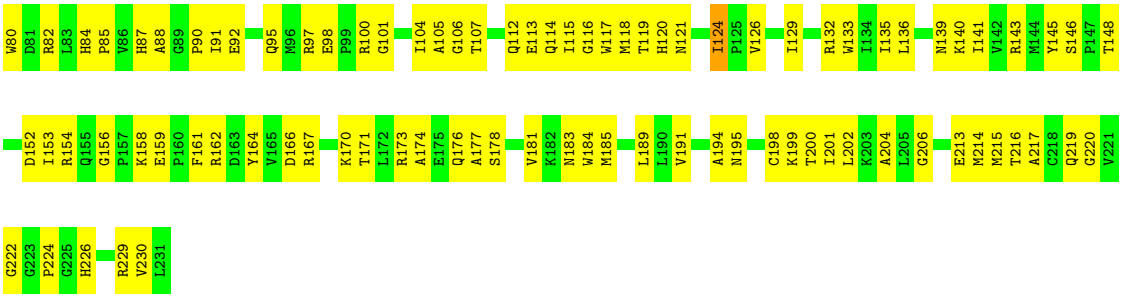


• Molecule 1: capsid protein

Chain d:





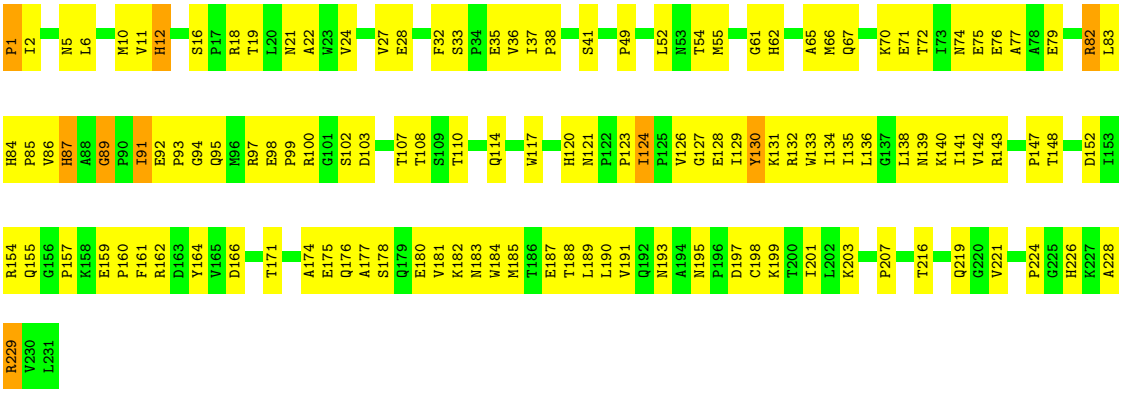


• Molecule 1: capsid protein

Chain e:

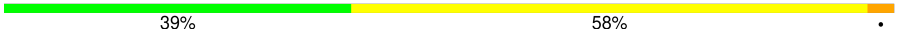
• Molecule 1: capsid protein

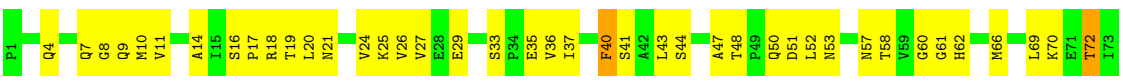
Chain f:

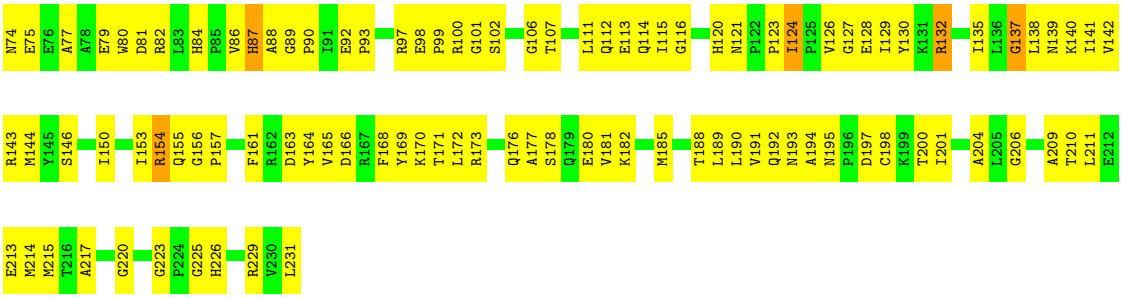


• Molecule 1: capsid protein

Chain g:

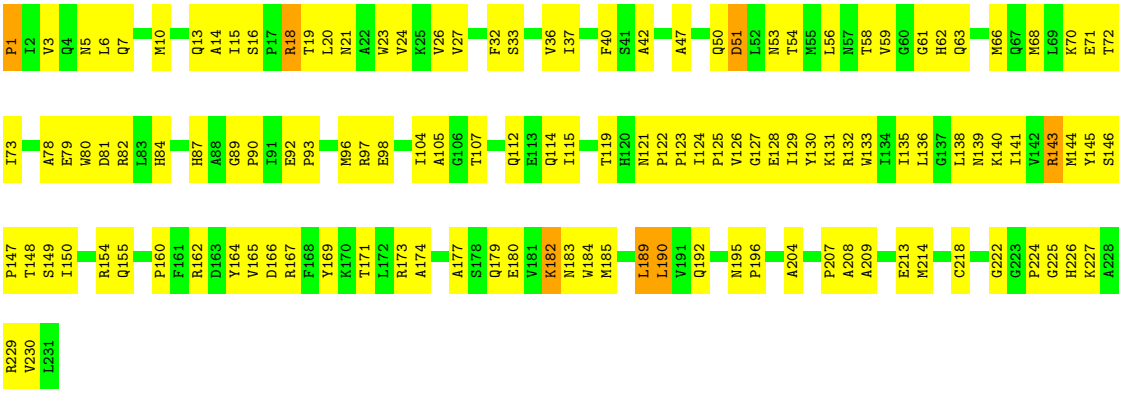






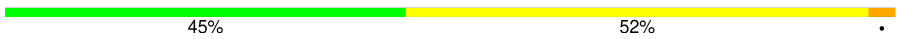
• Molecule 1: capsid protein

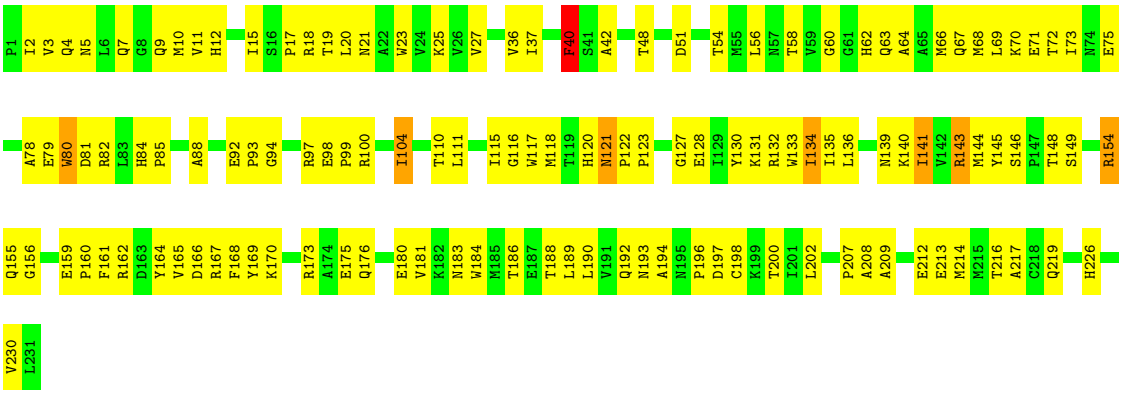
Chain h:



• Molecule 1: capsid protein

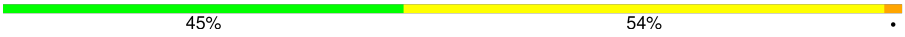
Chain i:

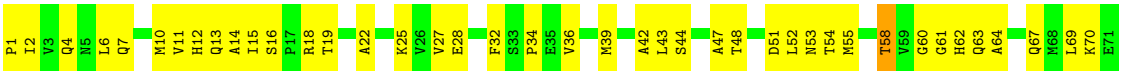


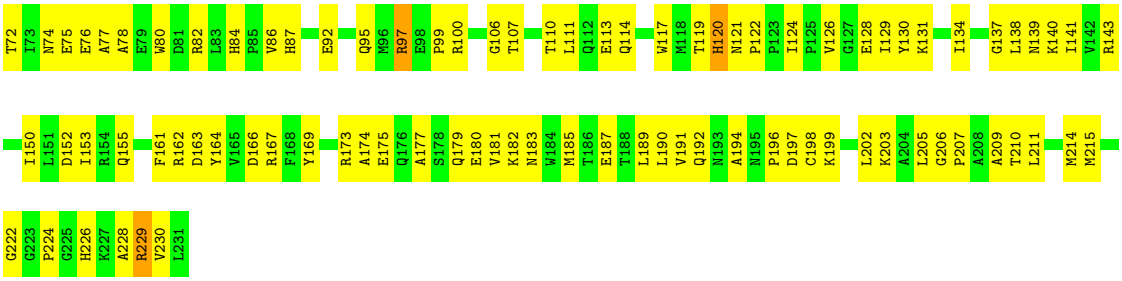


• Molecule 1: capsid protein

Chain j:

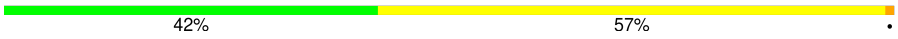


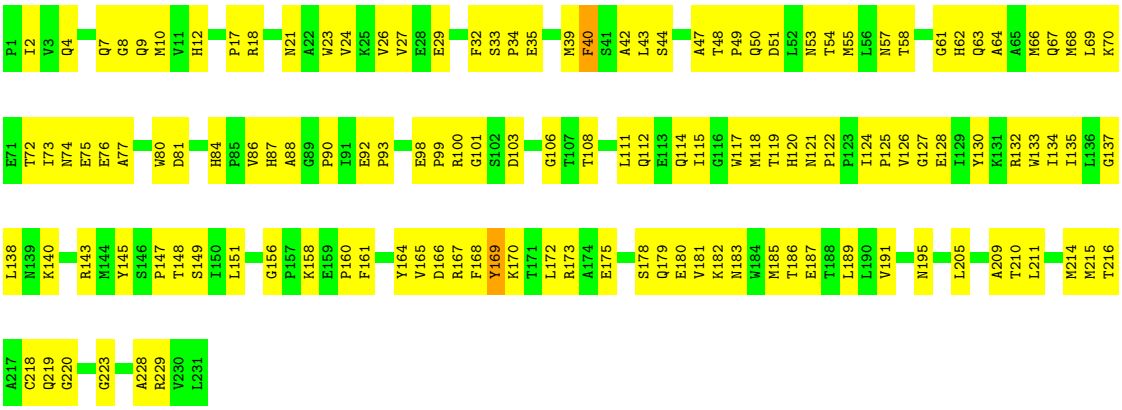




• Molecule 1: capsid protein

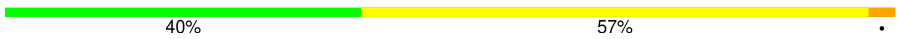
Chain 1:





• Molecule 1: capsid protein

Chain k:

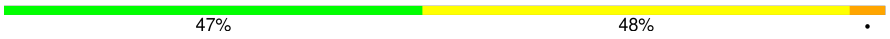


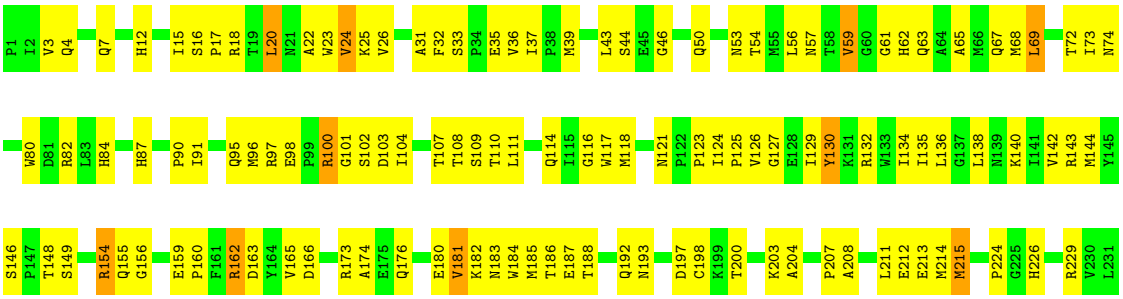
• Molecule 1: capsid protein

Chain l:

• Molecule 1: capsid protein

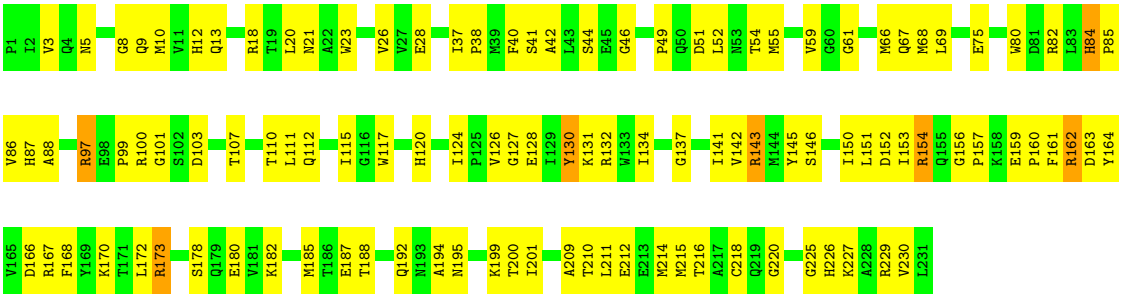
Chain m:





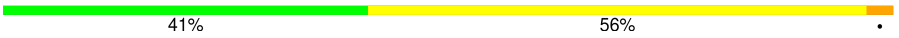
• Molecule 1: capsid protein

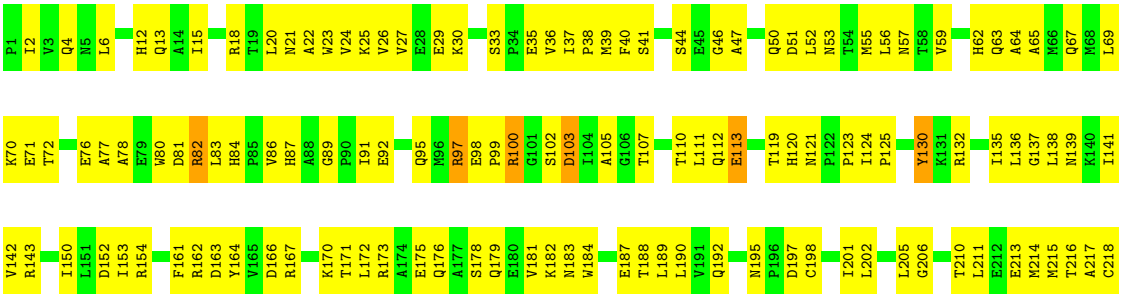
Chain n:



• Molecule 1: capsid protein

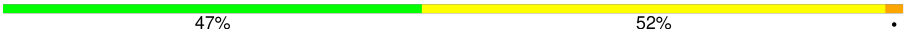
Chain o:

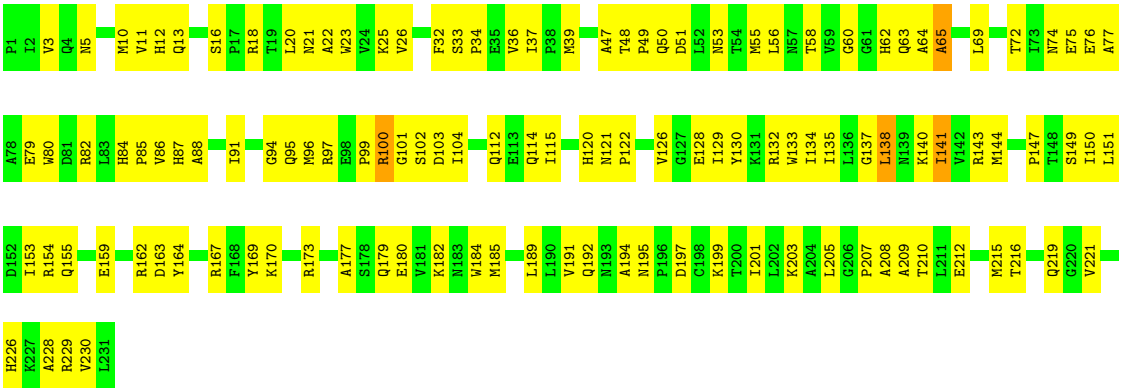




• Molecule 1: capsid protein

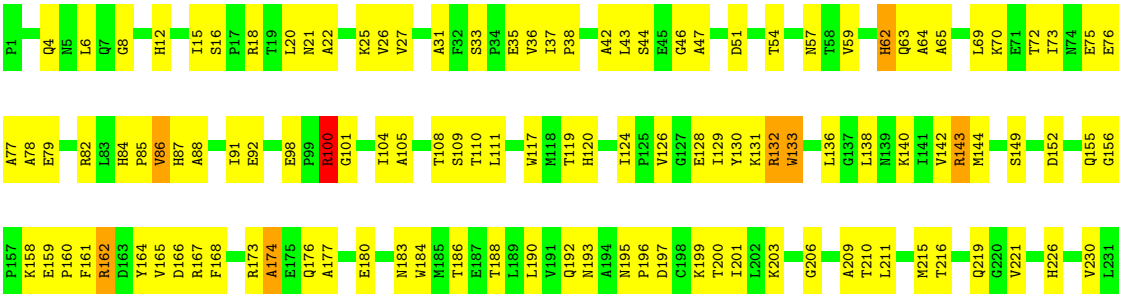
Chain p:





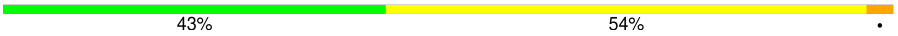
• Molecule 1: capsid protein

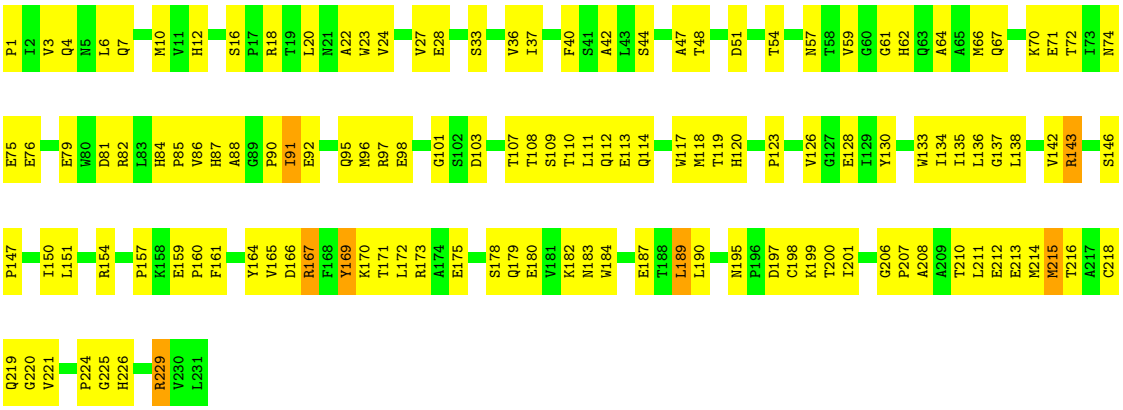
Chain q:



• Molecule 1: capsid protein

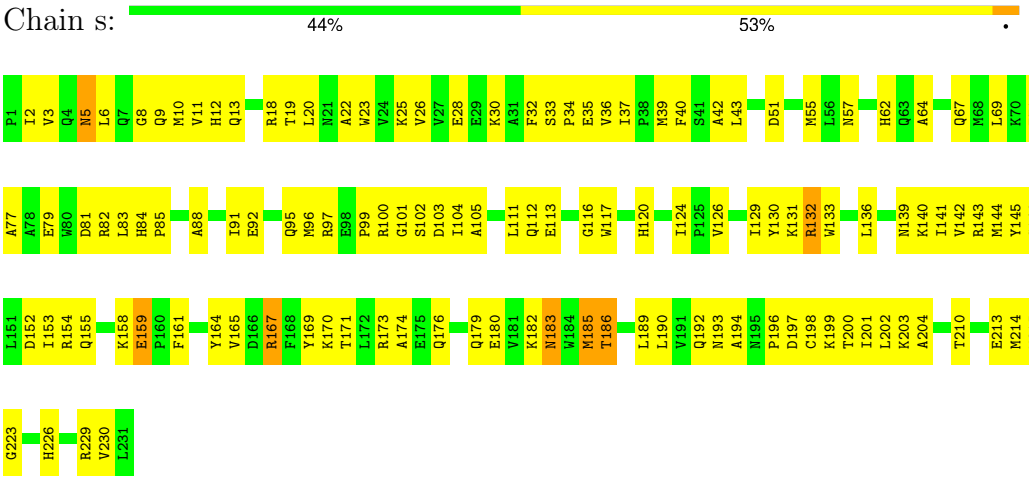
Chain r:





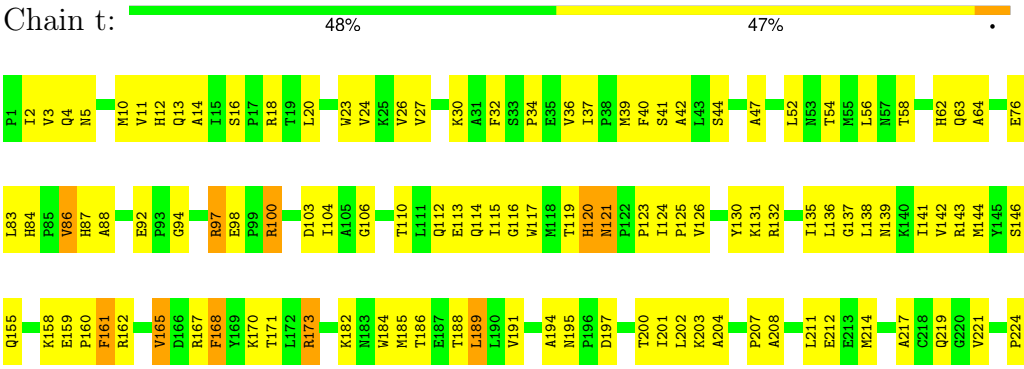
• Molecule 1: capsid protein

Chain s:



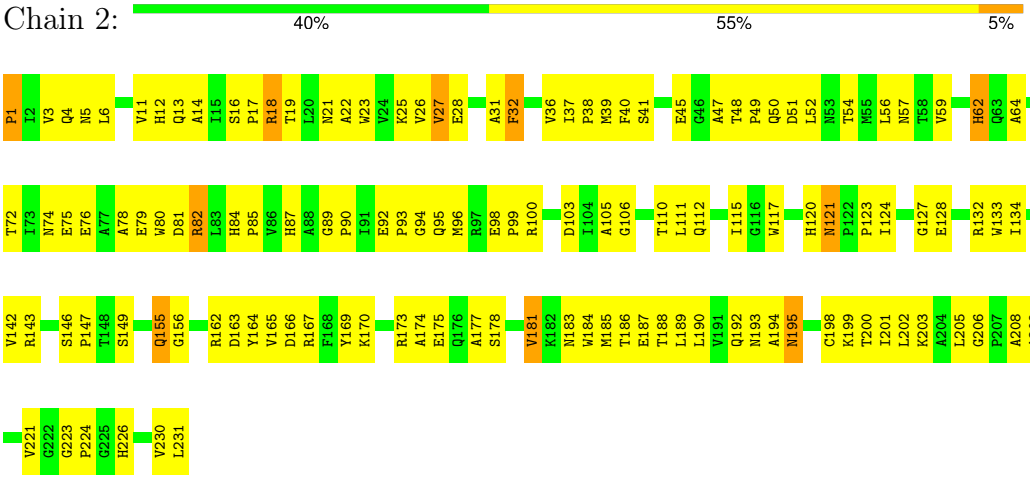
• Molecule 1: capsid protein

Chain t:



• Molecule 1: capsid protein

Chain 2:

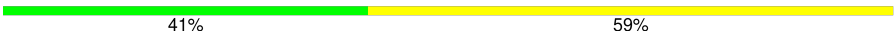


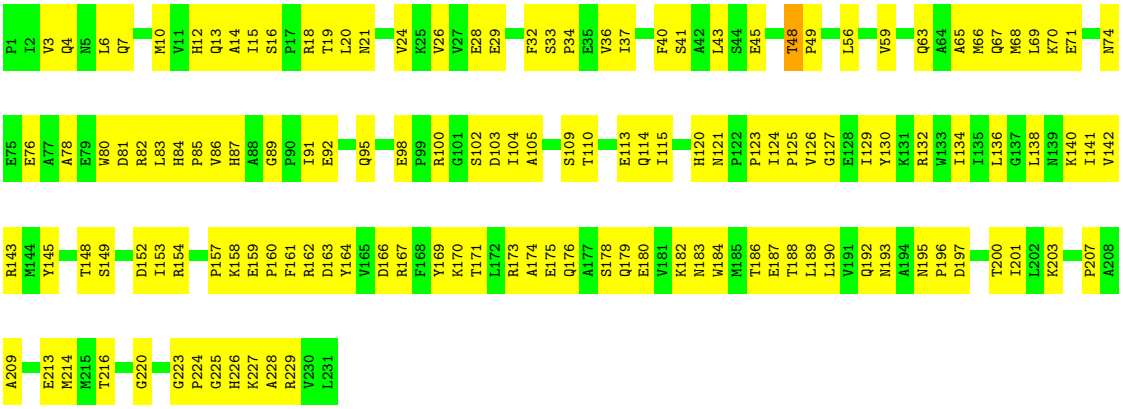
• Molecule 1: capsid protein

Chain u:

• Molecule 1: capsid protein

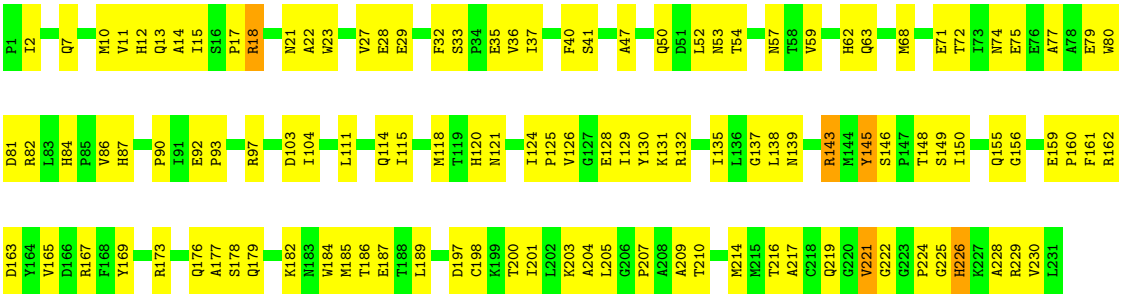
Chain v:





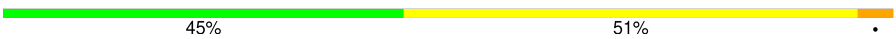
• Molecule 1: capsid protein

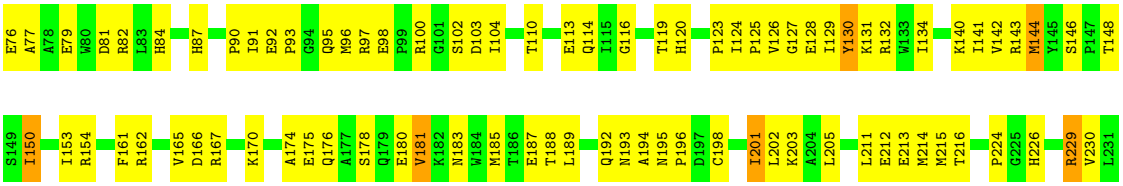
Chain w:



• Molecule 1: capsid protein

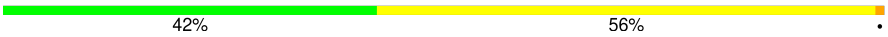
Chain x:





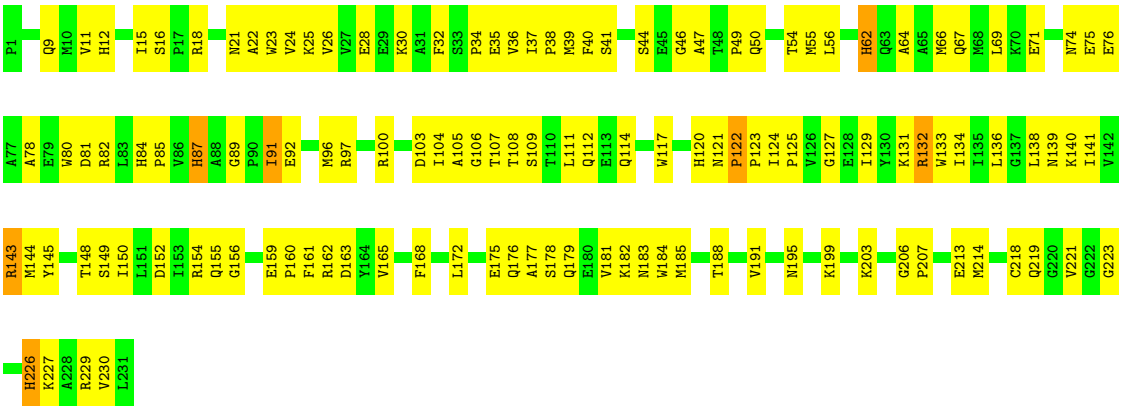
• Molecule 1: capsid protein

Chain y:



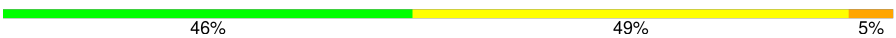
• Molecule 1: capsid protein

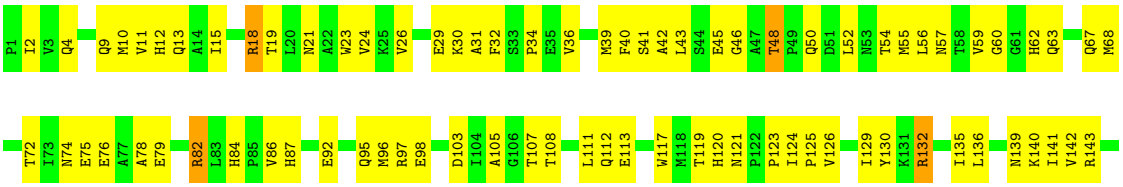
Chain z:

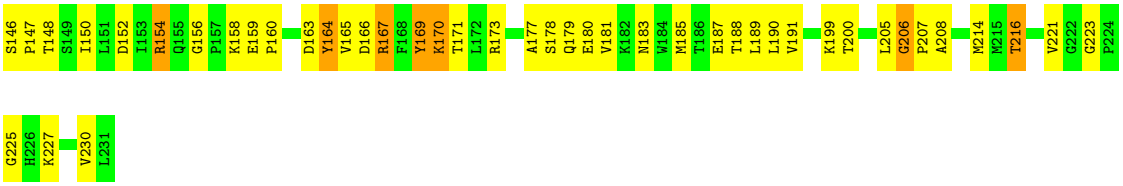


• Molecule 1: capsid protein

Chain A:

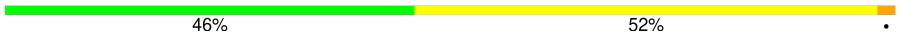


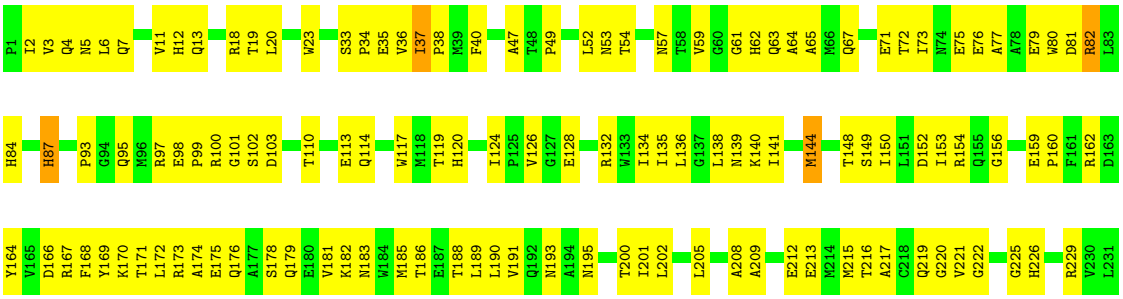




• Molecule 1: capsid protein

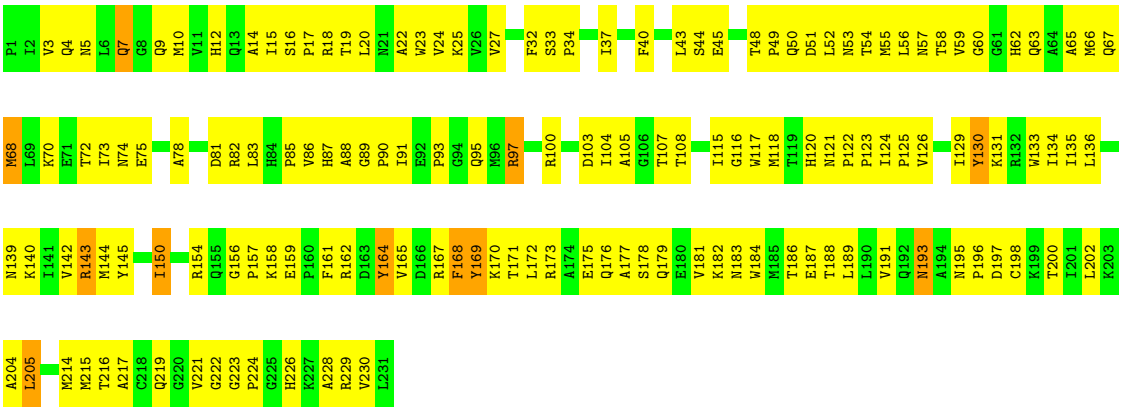
Chain B:





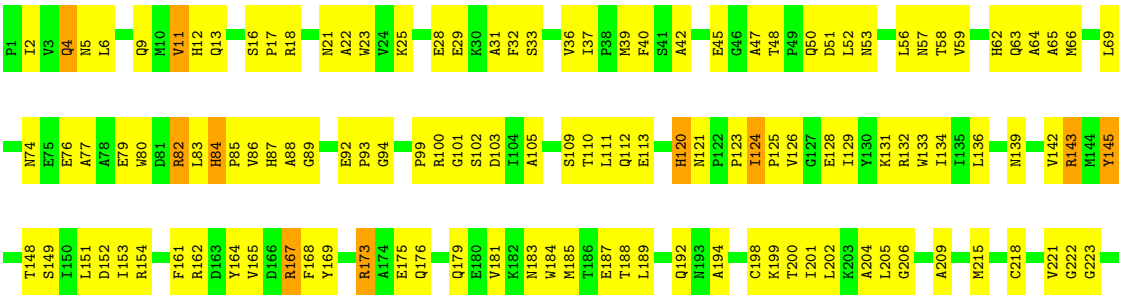
• Molecule 1: capsid protein

Chain C:



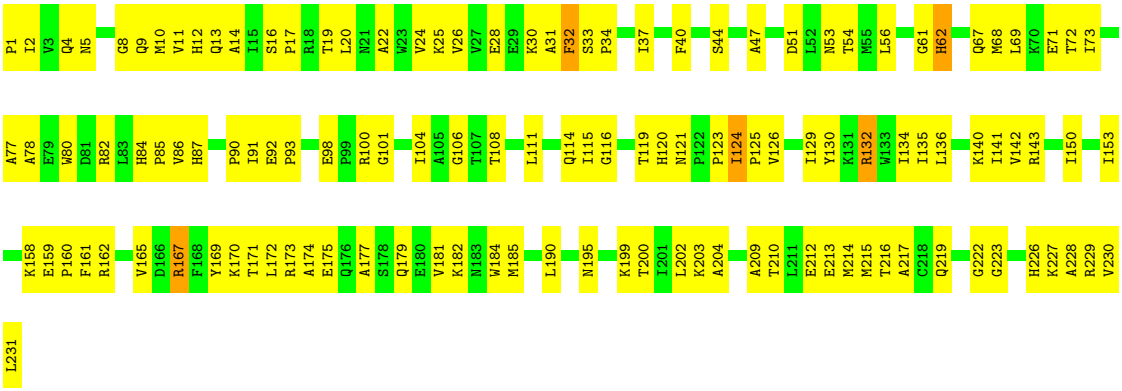
• Molecule 1: capsid protein

Chain D:



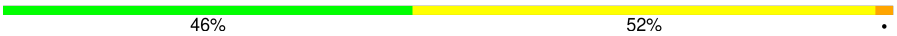
• Molecule 1: capsid protein

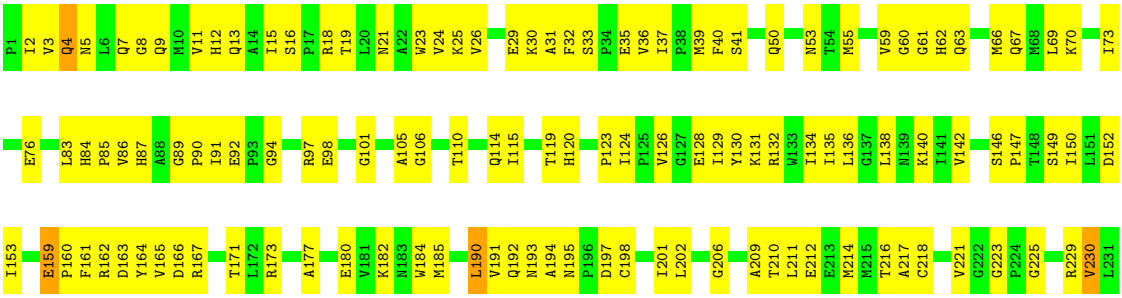
Chain 3:



• Molecule 1: capsid protein

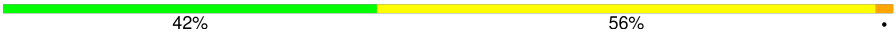
Chain E:





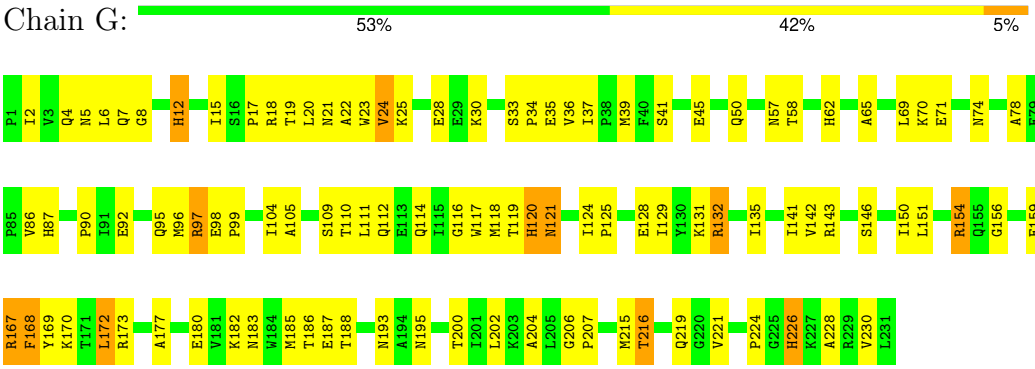
• Molecule 1: capsid protein

Chain F:



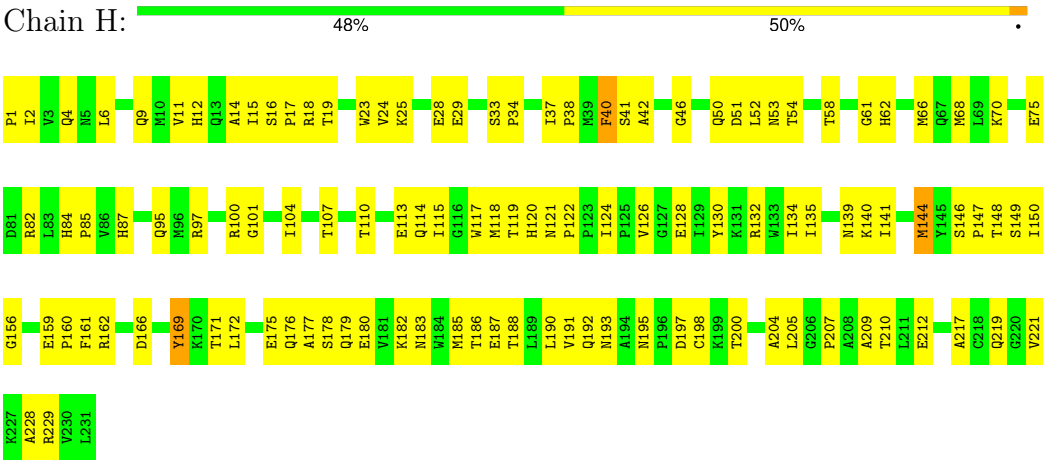
• Molecule 1: capsid protein

Chain G:



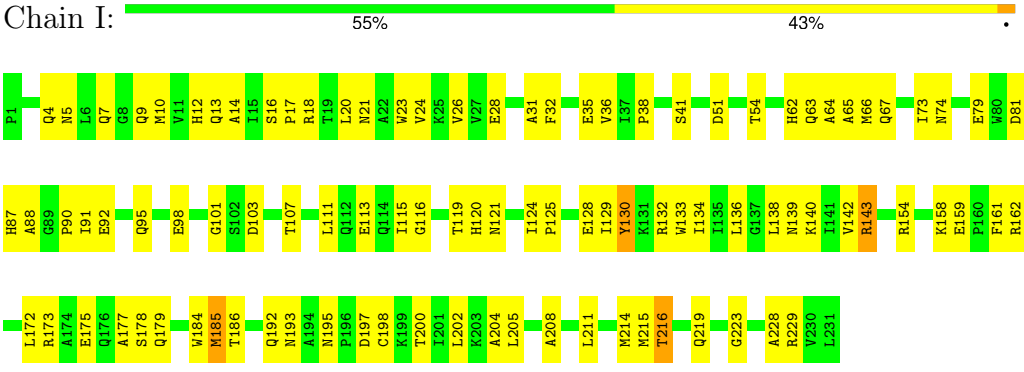
• Molecule 1: capsid protein

Chain H:



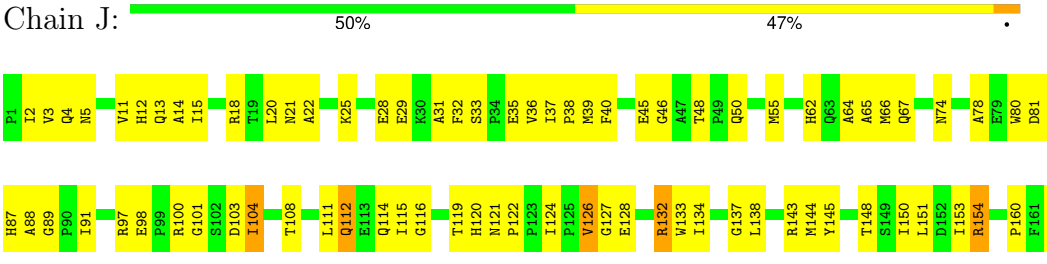
• Molecule 1: capsid protein

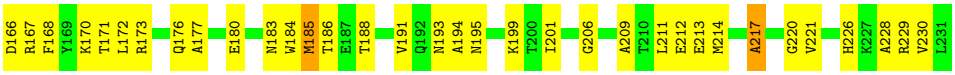
Chain I:



• Molecule 1: capsid protein

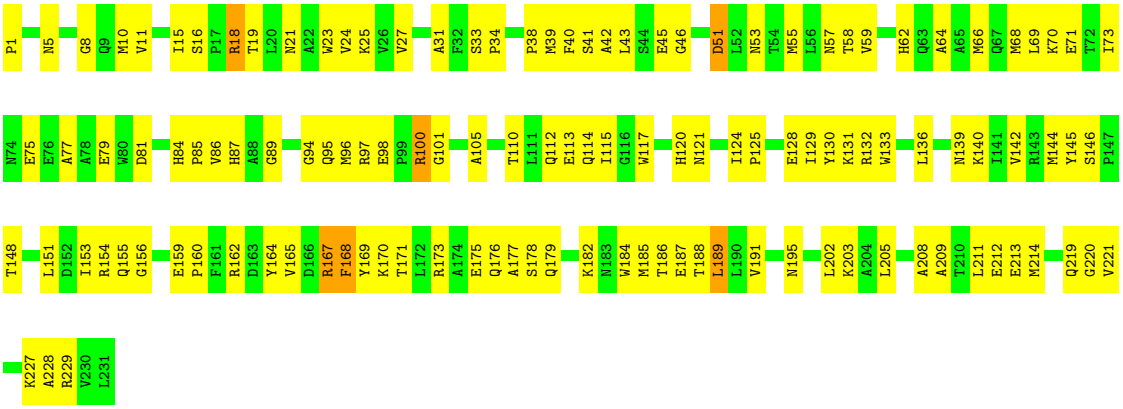
Chain J:





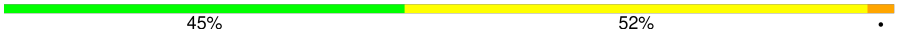
• Molecule 1: capsid protein

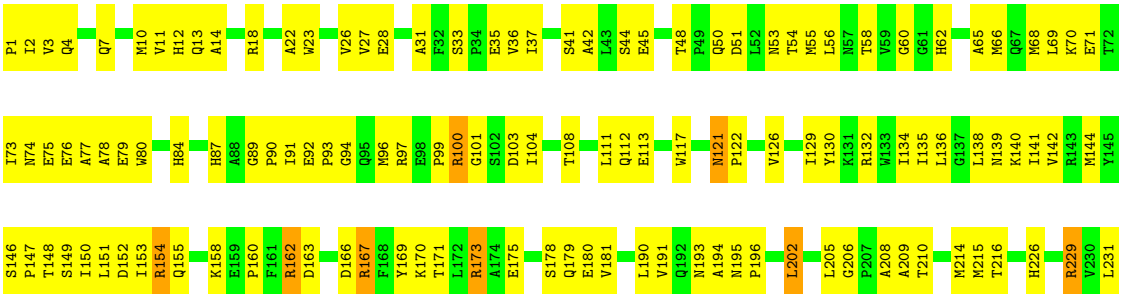
Chain K:



• Molecule 1: capsid protein

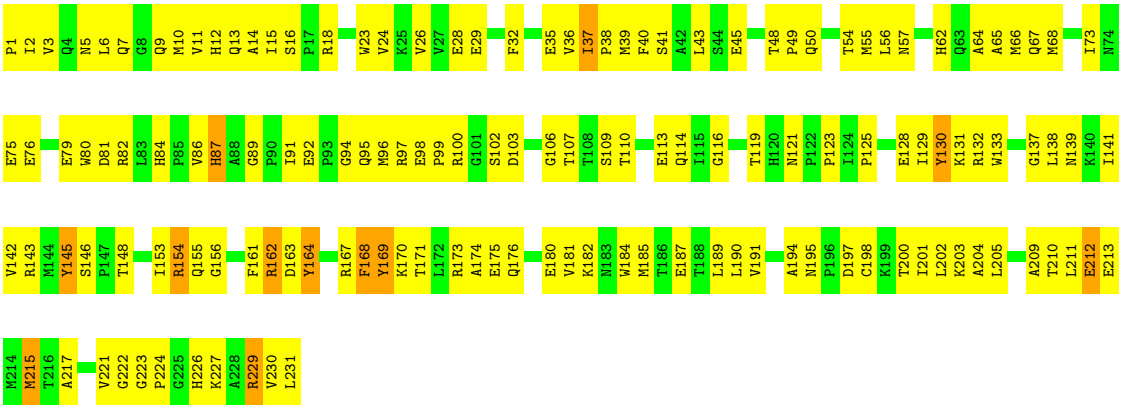
Chain L:





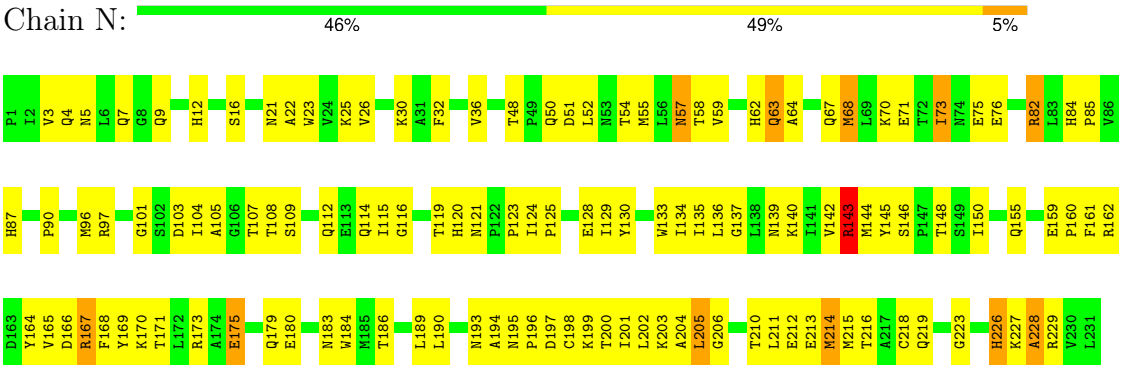
• Molecule 1: capsid protein

Chain M:



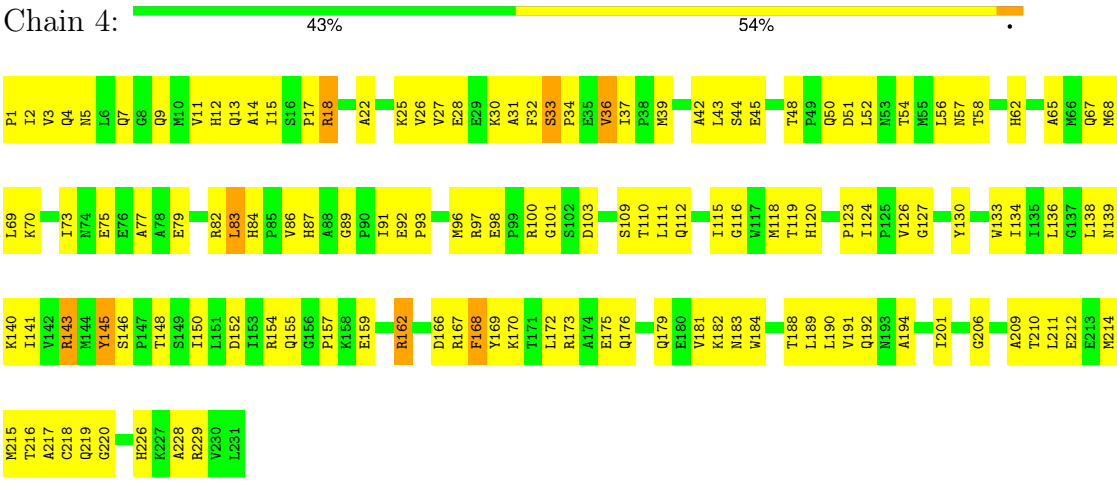
• Molecule 1: capsid protein

Chain N:



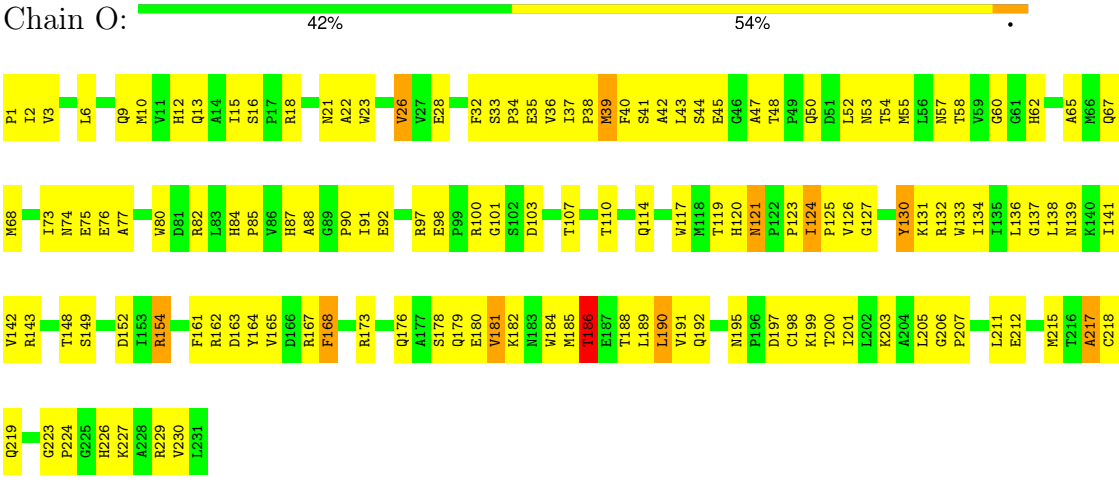
• Molecule 1: capsid protein

Chain 4:



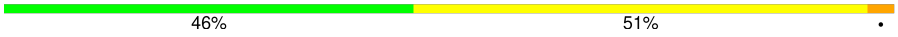
• Molecule 1: capsid protein

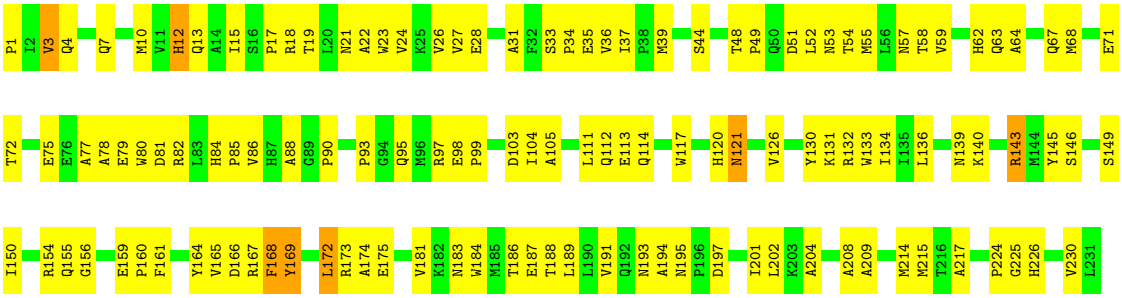
Chain O:



• Molecule 1: capsid protein

Chain P:



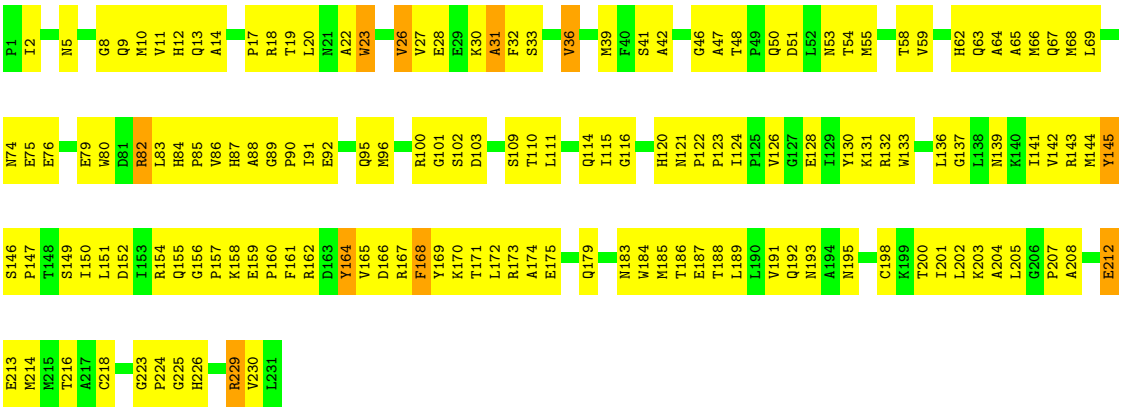


• Molecule 1: capsid protein

Chain Q:

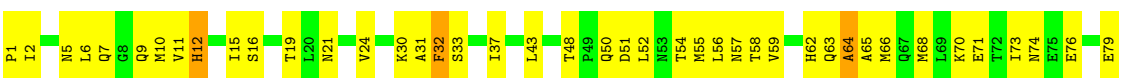
• Molecule 1: capsid protein

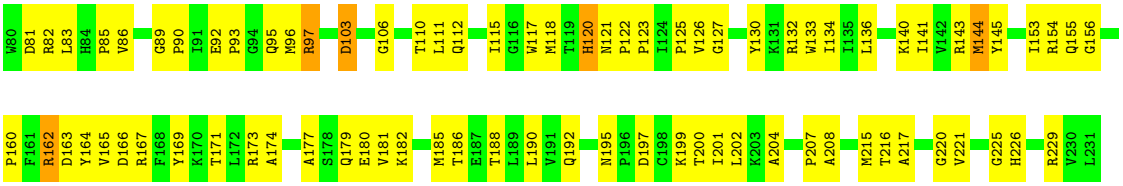
Chain R:



• Molecule 1: capsid protein

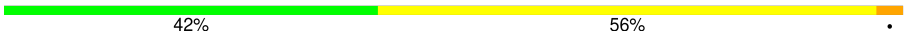
Chain S:





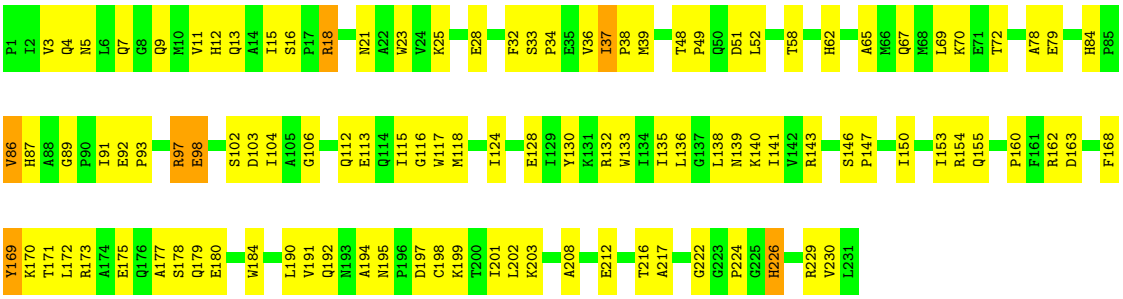
• Molecule 1: capsid protein

Chain T:



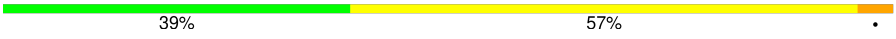
• Molecule 1: capsid protein

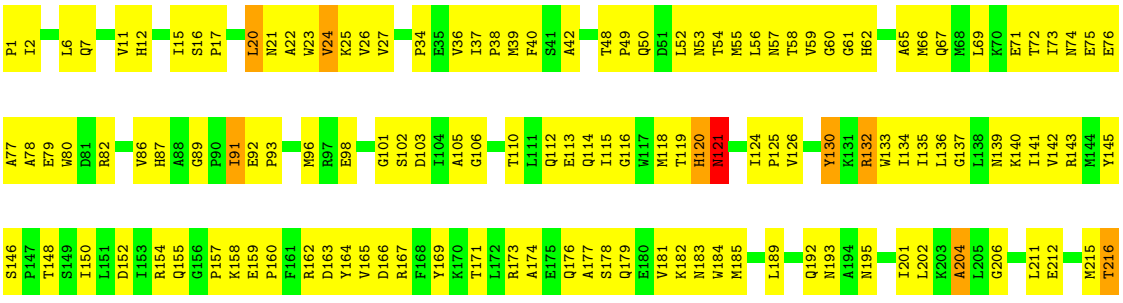
Chain U:



• Molecule 1: capsid protein

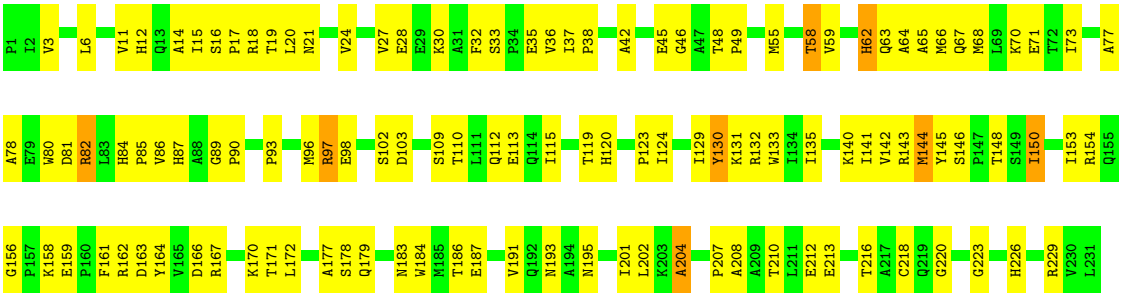
Chain V:





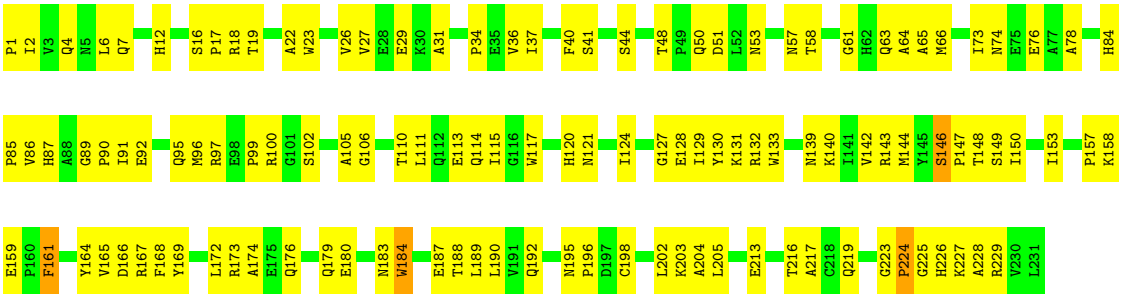
• Molecule 1: capsid protein

Chain W:



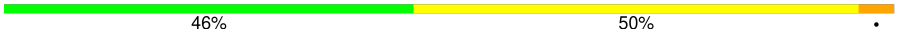
• Molecule 1: capsid protein

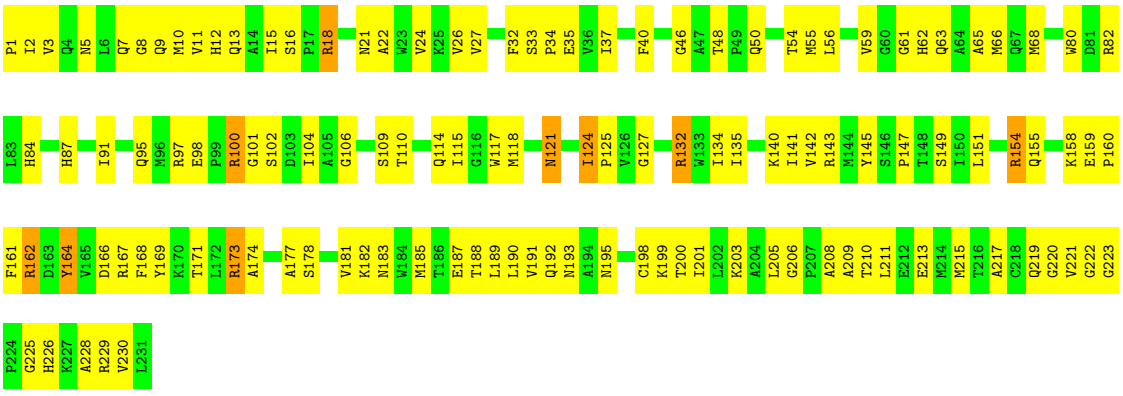
Chain X:



• Molecule 1: capsid protein

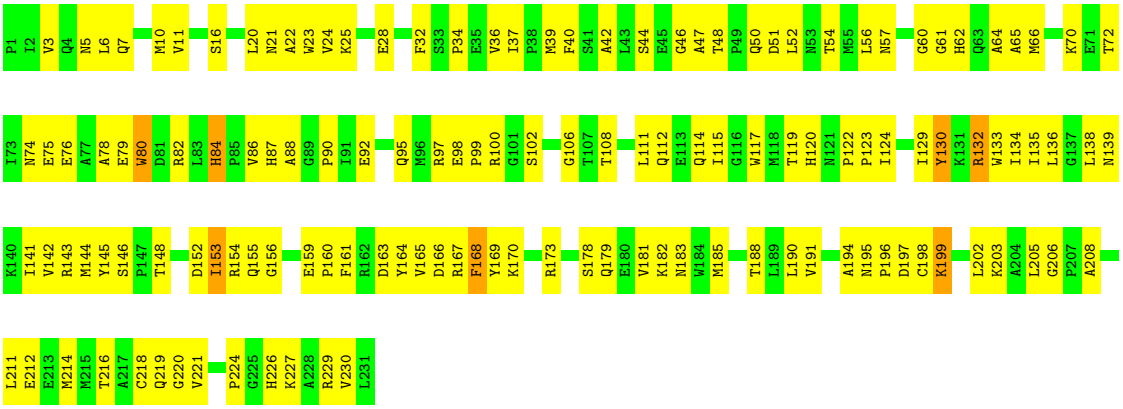
Chain 5:





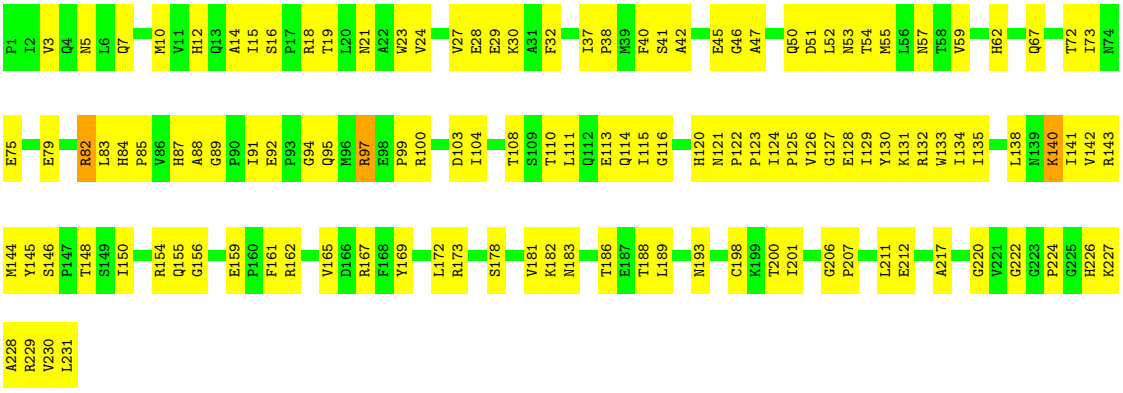
• Molecule 1: capsid protein

Chain 6:



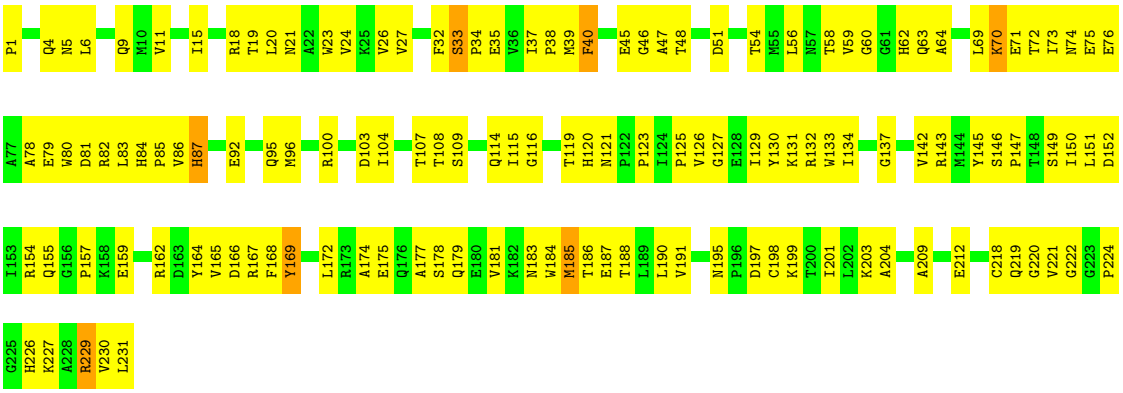
• Molecule 1: capsid protein

Chain 7:



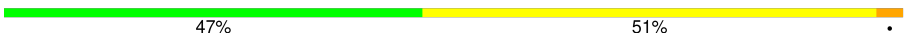
• Molecule 1: capsid protein

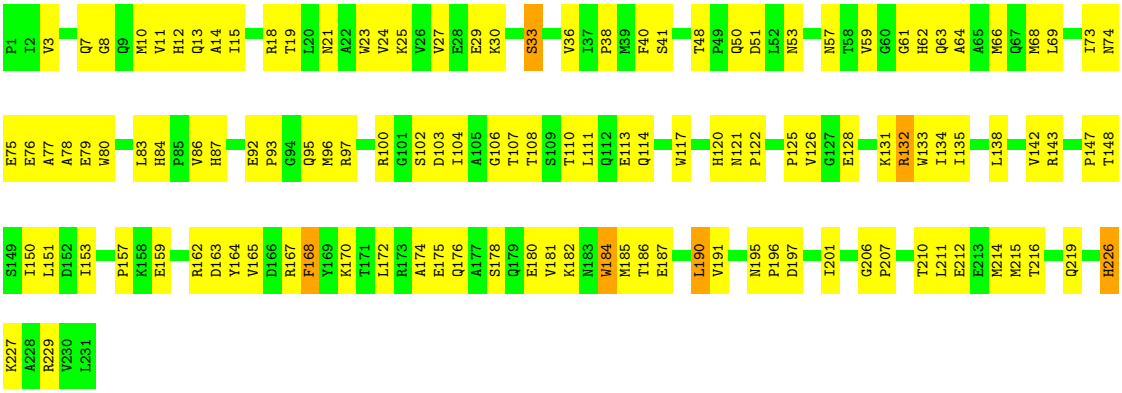
Chain 8:



• Molecule 1: capsid protein

Chain 9:

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E75 E76 A77 A78 E79 W80 L83 H84 P85 V86 H87 E92 P93 G94 Q95 M96 R97 R100 G101 S102 D103 I104 A105 G106 T107 T108 S109 T110 L111 Q112 E113 Q114 W117 H120 N121 P122 P125 V126 G127 E128 K131 R132 W133 I134 I135 L138 V142 R143 P147 T148
S149 I150 L151 D152 I153 P157 K158 E159 R162 D163 Y164 V165 D166 R167 F168 Y169 K170 T171 L172 R173 A174 E175 Q176 A177 S178 Q179 E180 V181 K182 N183 W184 M185 T186 E187 L190 V191 N195 P196 D197 I201 G206 P207 T210 L211 E212 E213 M214 M215 T216 Q219 H226
K227 A228 R229 V230 L231

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of tilted images used	Not provided	
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	120	Depositor
Minimum defocus (nm)	8000	Depositor
Maximum defocus (nm)	8000	Depositor
Magnification	39000	Depositor
Image detector	GATAN ULTRASCAN 4000 (4k x 4k)	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	0	2.18	61/1841 (3.3%)	2.64	157/2500 (6.3%)
1	1	2.21	57/1841 (3.1%)	2.61	160/2500 (6.4%)
1	10	2.22	58/1841 (3.2%)	2.68	167/2500 (6.7%)
1	11	2.20	63/1841 (3.4%)	2.59	140/2500 (5.6%)
1	12	2.24	71/1841 (3.9%)	2.66	164/2500 (6.6%)
1	13	2.18	60/1841 (3.3%)	2.52	140/2500 (5.6%)
1	14	2.19	60/1841 (3.3%)	2.61	148/2500 (5.9%)
1	15	2.22	61/1841 (3.3%)	2.63	173/2500 (6.9%)
1	16	2.19	52/1841 (2.8%)	2.55	149/2500 (6.0%)
1	17	2.14	61/1841 (3.3%)	2.57	150/2500 (6.0%)
1	18	2.22	57/1841 (3.1%)	2.65	162/2500 (6.5%)
1	19	2.16	58/1841 (3.2%)	2.62	156/2500 (6.2%)
1	1A	2.17	59/1841 (3.2%)	2.60	150/2500 (6.0%)
1	1B	2.25	54/1841 (2.9%)	2.50	128/2500 (5.1%)
1	1C	2.15	60/1841 (3.3%)	2.62	170/2500 (6.8%)
1	1D	2.19	48/1841 (2.6%)	2.53	144/2500 (5.8%)
1	1E	2.13	51/1841 (2.8%)	2.51	131/2500 (5.2%)
1	1F	2.22	62/1841 (3.4%)	2.57	146/2500 (5.8%)
1	1G	2.21	61/1841 (3.3%)	2.55	144/2500 (5.8%)
1	1H	2.16	53/1841 (2.9%)	2.60	158/2500 (6.3%)
1	1I	2.24	69/1841 (3.7%)	2.66	156/2500 (6.2%)
1	1J	2.22	63/1841 (3.4%)	2.57	143/2500 (5.7%)
1	1K	2.21	61/1841 (3.3%)	2.52	134/2500 (5.4%)
1	1L	2.21	68/1841 (3.7%)	2.54	134/2500 (5.4%)
1	1M	2.18	55/1841 (3.0%)	2.65	156/2500 (6.2%)
1	1N	2.21	63/1841 (3.4%)	2.60	172/2500 (6.9%)
1	1O	2.21	59/1841 (3.2%)	2.55	136/2500 (5.4%)
1	1P	2.15	47/1841 (2.6%)	2.57	147/2500 (5.9%)
1	1Q	2.19	53/1841 (2.9%)	2.58	141/2500 (5.6%)
1	1R	2.16	56/1841 (3.0%)	2.58	145/2500 (5.8%)
1	1S	2.24	58/1841 (3.2%)	2.61	167/2500 (6.7%)
1	1T	2.18	54/1841 (2.9%)	2.56	137/2500 (5.5%)
1	1U	2.17	55/1841 (3.0%)	2.56	139/2500 (5.6%)
1	1V	2.24	65/1841 (3.5%)	2.59	147/2500 (5.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	1W	2.21	61/1841 (3.3%)	2.54	140/2500 (5.6%)
1	1X	2.18	52/1841 (2.8%)	2.55	130/2500 (5.2%)
1	1Y	2.20	64/1841 (3.5%)	2.64	180/2500 (7.2%)
1	1Z	2.19	59/1841 (3.2%)	2.58	158/2500 (6.3%)
1	1a	2.20	46/1841 (2.5%)	2.57	132/2500 (5.3%)
1	1b	2.18	55/1841 (3.0%)	2.56	135/2500 (5.4%)
1	1c	2.23	65/1841 (3.5%)	2.61	136/2500 (5.4%)
1	1d	2.24	59/1841 (3.2%)	2.49	129/2500 (5.2%)
1	1e	2.17	55/1841 (3.0%)	2.67	159/2500 (6.4%)
1	1f	2.13	49/1841 (2.7%)	2.54	133/2500 (5.3%)
1	1g	2.20	60/1841 (3.3%)	2.52	133/2500 (5.3%)
1	1h	2.22	66/1841 (3.6%)	2.59	136/2500 (5.4%)
1	1i	2.19	52/1841 (2.8%)	2.58	162/2500 (6.5%)
1	1j	2.16	50/1841 (2.7%)	2.56	143/2500 (5.7%)
1	1k	2.30	61/1841 (3.3%)	2.56	144/2500 (5.8%)
1	1l	2.26	58/1841 (3.2%)	2.56	155/2500 (6.2%)
1	1m	2.24	58/1841 (3.2%)	2.52	130/2500 (5.2%)
1	1n	2.25	62/1841 (3.4%)	2.58	144/2500 (5.8%)
1	1o	2.29	71/1841 (3.9%)	2.56	140/2500 (5.6%)
1	1p	2.20	58/1841 (3.2%)	2.51	134/2500 (5.4%)
1	1q	2.11	49/1841 (2.7%)	2.56	156/2500 (6.2%)
1	1r	2.17	56/1841 (3.0%)	2.49	124/2500 (5.0%)
1	1s	2.18	61/1841 (3.3%)	2.65	152/2500 (6.1%)
1	1t	2.23	70/1841 (3.8%)	2.55	133/2500 (5.3%)
1	1u	2.18	51/1841 (2.8%)	2.59	125/2500 (5.0%)
1	1v	2.15	56/1841 (3.0%)	2.52	130/2500 (5.2%)
1	1w	2.26	61/1841 (3.3%)	2.54	140/2500 (5.6%)
1	1x	2.23	61/1841 (3.3%)	2.67	163/2500 (6.5%)
1	1y	2.20	56/1841 (3.0%)	2.59	162/2500 (6.5%)
1	1z	2.12	51/1841 (2.8%)	2.62	153/2500 (6.1%)
1	2	2.18	59/1841 (3.2%)	2.55	139/2500 (5.6%)
1	20	2.22	68/1841 (3.7%)	2.56	143/2500 (5.7%)
1	21	2.26	68/1841 (3.7%)	2.64	167/2500 (6.7%)
1	22	2.22	54/1841 (2.9%)	2.60	152/2500 (6.1%)
1	23	2.31	66/1841 (3.6%)	2.63	147/2500 (5.9%)
1	24	2.24	61/1841 (3.3%)	2.62	155/2500 (6.2%)
1	25	2.26	70/1841 (3.8%)	2.61	145/2500 (5.8%)
1	26	2.19	59/1841 (3.2%)	2.54	155/2500 (6.2%)
1	27	2.19	56/1841 (3.0%)	2.58	145/2500 (5.8%)
1	28	2.18	57/1841 (3.1%)	2.62	150/2500 (6.0%)
1	29	2.35	79/1841 (4.3%)	2.62	142/2500 (5.7%)
1	2A	2.24	66/1841 (3.6%)	2.60	150/2500 (6.0%)
1	2B	2.21	64/1841 (3.5%)	2.50	115/2500 (4.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	2C	2.19	52/1841 (2.8%)	2.66	167/2500 (6.7%)
1	2D	2.18	50/1841 (2.7%)	2.56	143/2500 (5.7%)
1	2E	2.20	60/1841 (3.3%)	2.60	171/2500 (6.8%)
1	2F	2.17	52/1841 (2.8%)	2.58	152/2500 (6.1%)
1	2G	2.21	65/1841 (3.5%)	2.65	178/2500 (7.1%)
1	2H	2.21	53/1841 (2.9%)	2.53	141/2500 (5.6%)
1	2I	2.21	58/1841 (3.2%)	2.59	153/2500 (6.1%)
1	2J	2.17	58/1841 (3.2%)	2.59	145/2500 (5.8%)
1	2K	2.18	49/1841 (2.7%)	2.57	141/2500 (5.6%)
1	2L	2.24	62/1841 (3.4%)	2.56	152/2500 (6.1%)
1	2M	2.20	55/1841 (3.0%)	2.63	160/2500 (6.4%)
1	2N	2.19	55/1841 (3.0%)	2.59	151/2500 (6.0%)
1	2O	2.23	55/1841 (3.0%)	2.66	152/2500 (6.1%)
1	2P	2.21	52/1841 (2.8%)	2.58	151/2500 (6.0%)
1	2Q	2.28	74/1841 (4.0%)	2.62	145/2500 (5.8%)
1	2R	2.21	56/1841 (3.0%)	2.60	164/2500 (6.6%)
1	2S	2.29	70/1841 (3.8%)	2.63	172/2500 (6.9%)
1	2T	2.19	48/1841 (2.6%)	2.66	163/2500 (6.5%)
1	2U	2.17	54/1841 (2.9%)	2.57	153/2500 (6.1%)
1	2V	2.18	64/1841 (3.5%)	2.60	154/2500 (6.2%)
1	2W	2.27	59/1841 (3.2%)	2.54	132/2500 (5.3%)
1	2X	2.30	70/1841 (3.8%)	2.65	175/2500 (7.0%)
1	2Y	2.28	73/1841 (4.0%)	2.59	156/2500 (6.2%)
1	2Z	2.23	67/1841 (3.6%)	2.59	153/2500 (6.1%)
1	2a	2.22	62/1841 (3.4%)	2.65	172/2500 (6.9%)
1	2b	2.28	73/1841 (4.0%)	2.64	165/2500 (6.6%)
1	2c	2.17	56/1841 (3.0%)	2.67	166/2500 (6.6%)
1	2d	2.18	54/1841 (2.9%)	2.57	149/2500 (6.0%)
1	2e	2.21	57/1841 (3.1%)	2.59	153/2500 (6.1%)
1	2f	2.19	70/1841 (3.8%)	2.60	160/2500 (6.4%)
1	2g	2.21	63/1841 (3.4%)	2.63	170/2500 (6.8%)
1	2h	2.15	50/1841 (2.7%)	2.57	147/2500 (5.9%)
1	2i	2.16	55/1841 (3.0%)	2.65	156/2500 (6.2%)
1	2j	2.20	53/1841 (2.9%)	2.61	168/2500 (6.7%)
1	2k	2.19	59/1841 (3.2%)	2.56	158/2500 (6.3%)
1	2l	2.17	50/1841 (2.7%)	2.68	171/2500 (6.8%)
1	2m	2.20	51/1841 (2.8%)	2.55	145/2500 (5.8%)
1	2n	2.22	61/1841 (3.3%)	2.56	162/2500 (6.5%)
1	2o	2.17	52/1841 (2.8%)	2.64	157/2500 (6.3%)
1	2p	2.23	60/1841 (3.3%)	2.65	167/2500 (6.7%)
1	2q	2.26	67/1841 (3.6%)	2.57	142/2500 (5.7%)
1	2r	2.16	56/1841 (3.0%)	2.57	167/2500 (6.7%)
1	2s	2.21	60/1841 (3.3%)	2.69	166/2500 (6.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	2t	2.24	58/1841 (3.2%)	2.50	149/2500 (6.0%)
1	2u	2.20	59/1841 (3.2%)	2.58	132/2500 (5.3%)
1	2v	2.18	57/1841 (3.1%)	2.66	175/2500 (7.0%)
1	2w	2.25	64/1841 (3.5%)	2.70	175/2500 (7.0%)
1	2x	2.28	72/1841 (3.9%)	2.51	157/2500 (6.3%)
1	2y	2.25	70/1841 (3.8%)	2.56	126/2500 (5.0%)
1	2z	2.24	64/1841 (3.5%)	2.57	155/2500 (6.2%)
1	3	2.26	58/1841 (3.2%)	2.66	154/2500 (6.2%)
1	30	2.26	72/1841 (3.9%)	2.58	154/2500 (6.2%)
1	31	2.24	65/1841 (3.5%)	2.48	134/2500 (5.4%)
1	32	2.21	57/1841 (3.1%)	2.58	148/2500 (5.9%)
1	33	2.15	51/1841 (2.8%)	2.51	139/2500 (5.6%)
1	34	2.17	51/1841 (2.8%)	2.62	138/2500 (5.5%)
1	35	2.18	60/1841 (3.3%)	2.56	134/2500 (5.4%)
1	36	2.16	56/1841 (3.0%)	2.61	166/2500 (6.6%)
1	37	2.14	51/1841 (2.8%)	2.53	153/2500 (6.1%)
1	38	2.22	50/1841 (2.7%)	2.60	137/2500 (5.5%)
1	39	2.16	53/1841 (2.9%)	2.54	151/2500 (6.0%)
1	3A	2.24	55/1841 (3.0%)	2.56	156/2500 (6.2%)
1	3B	2.24	55/1841 (3.0%)	2.60	153/2500 (6.1%)
1	3C	2.20	53/1841 (2.9%)	2.68	162/2500 (6.5%)
1	3D	2.28	59/1841 (3.2%)	2.50	158/2500 (6.3%)
1	3E	2.19	56/1841 (3.0%)	2.65	147/2500 (5.9%)
1	3F	2.29	67/1841 (3.6%)	2.59	153/2500 (6.1%)
1	3G	2.25	65/1841 (3.5%)	2.55	142/2500 (5.7%)
1	3H	2.18	58/1841 (3.2%)	2.56	139/2500 (5.6%)
1	3I	2.14	60/1841 (3.3%)	2.66	168/2500 (6.7%)
1	3J	2.15	51/1841 (2.8%)	2.62	137/2500 (5.5%)
1	3K	2.26	66/1841 (3.6%)	2.59	145/2500 (5.8%)
1	3L	2.18	56/1841 (3.0%)	2.62	153/2500 (6.1%)
1	3M	2.19	57/1841 (3.1%)	2.58	144/2500 (5.8%)
1	3N	2.21	57/1841 (3.1%)	2.62	170/2500 (6.8%)
1	3O	2.32	81/1841 (4.4%)	2.68	171/2500 (6.8%)
1	3P	2.22	61/1841 (3.3%)	2.60	156/2500 (6.2%)
1	3Q	2.19	63/1841 (3.4%)	2.60	153/2500 (6.1%)
1	3R	2.18	61/1841 (3.3%)	2.60	150/2500 (6.0%)
1	3S	2.24	62/1841 (3.4%)	2.63	173/2500 (6.9%)
1	3T	2.16	53/1841 (2.9%)	2.62	152/2500 (6.1%)
1	3U	2.22	53/1841 (2.9%)	2.64	152/2500 (6.1%)
1	3V	2.27	68/1841 (3.7%)	2.61	143/2500 (5.7%)
1	3W	2.23	57/1841 (3.1%)	2.60	151/2500 (6.0%)
1	3X	2.23	60/1841 (3.3%)	2.59	169/2500 (6.8%)
1	3Y	2.18	53/1841 (2.9%)	2.56	139/2500 (5.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	3Z	2.24	62/1841 (3.4%)	2.62	161/2500 (6.4%)
1	3a	2.18	52/1841 (2.8%)	2.62	157/2500 (6.3%)
1	3b	2.14	43/1841 (2.3%)	2.61	157/2500 (6.3%)
1	3c	2.29	70/1841 (3.8%)	2.62	155/2500 (6.2%)
1	3d	2.18	46/1841 (2.5%)	2.57	165/2500 (6.6%)
1	3e	2.24	56/1841 (3.0%)	2.55	145/2500 (5.8%)
1	3f	2.17	50/1841 (2.7%)	2.57	136/2500 (5.4%)
1	3g	2.16	54/1841 (2.9%)	2.63	163/2500 (6.5%)
1	3h	2.21	54/1841 (2.9%)	2.60	158/2500 (6.3%)
1	3i	2.18	57/1841 (3.1%)	2.54	139/2500 (5.6%)
1	3j	2.21	62/1841 (3.4%)	2.56	152/2500 (6.1%)
1	3k	2.13	45/1841 (2.4%)	2.50	140/2500 (5.6%)
1	3l	2.23	66/1841 (3.6%)	2.59	144/2500 (5.8%)
1	3m	2.23	55/1841 (3.0%)	2.55	132/2500 (5.3%)
1	3n	2.19	59/1841 (3.2%)	2.55	157/2500 (6.3%)
1	3o	2.22	61/1841 (3.3%)	2.68	167/2500 (6.7%)
1	3p	2.21	52/1841 (2.8%)	2.70	177/2500 (7.1%)
1	3q	2.20	66/1841 (3.6%)	2.58	145/2500 (5.8%)
1	3r	2.18	52/1841 (2.8%)	2.59	168/2500 (6.7%)
1	3s	2.21	59/1841 (3.2%)	2.60	168/2500 (6.7%)
1	3t	2.21	58/1841 (3.2%)	2.54	131/2500 (5.2%)
1	3u	2.25	60/1841 (3.3%)	2.54	124/2500 (5.0%)
1	3v	2.24	65/1841 (3.5%)	2.57	124/2500 (5.0%)
1	3w	2.15	54/1841 (2.9%)	2.61	164/2500 (6.6%)
1	3x	2.20	71/1841 (3.9%)	2.52	138/2500 (5.5%)
1	3y	2.14	56/1841 (3.0%)	2.56	140/2500 (5.6%)
1	3z	2.23	54/1841 (2.9%)	2.64	175/2500 (7.0%)
1	4	2.19	62/1841 (3.4%)	2.60	162/2500 (6.5%)
1	40	2.18	50/1841 (2.7%)	2.57	137/2500 (5.5%)
1	41	2.17	57/1841 (3.1%)	2.53	137/2500 (5.5%)
1	42	2.19	57/1841 (3.1%)	2.57	156/2500 (6.2%)
1	43	2.24	64/1841 (3.5%)	2.61	158/2500 (6.3%)
1	44	2.22	68/1841 (3.7%)	2.65	151/2500 (6.0%)
1	45	2.13	51/1841 (2.8%)	2.54	139/2500 (5.6%)
1	46	2.22	58/1841 (3.2%)	2.62	143/2500 (5.7%)
1	47	2.25	65/1841 (3.5%)	2.58	147/2500 (5.9%)
1	48	2.26	66/1841 (3.6%)	2.65	164/2500 (6.6%)
1	49	2.21	63/1841 (3.4%)	2.56	150/2500 (6.0%)
1	4A	2.10	49/1841 (2.7%)	2.54	130/2500 (5.2%)
1	4B	2.11	51/1841 (2.8%)	2.57	163/2500 (6.5%)
1	4C	2.16	42/1841 (2.3%)	2.59	141/2500 (5.6%)
1	4D	2.26	64/1841 (3.5%)	2.49	146/2500 (5.8%)
1	4E	2.17	52/1841 (2.8%)	2.67	160/2500 (6.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	4F	2.19	63/1841 (3.4%)	2.57	148/2500 (5.9%)
1	4G	2.23	66/1841 (3.6%)	2.58	156/2500 (6.2%)
1	4H	2.21	59/1841 (3.2%)	2.56	130/2500 (5.2%)
1	4I	2.15	50/1841 (2.7%)	2.66	166/2500 (6.6%)
1	4J	2.21	54/1841 (2.9%)	2.62	157/2500 (6.3%)
1	4K	2.18	59/1841 (3.2%)	2.65	157/2500 (6.3%)
1	4L	2.17	58/1841 (3.2%)	2.56	147/2500 (5.9%)
1	4M	2.19	60/1841 (3.3%)	2.63	153/2500 (6.1%)
1	4N	2.13	45/1841 (2.4%)	2.62	158/2500 (6.3%)
1	4O	2.19	59/1841 (3.2%)	2.57	143/2500 (5.7%)
1	4P	2.16	52/1841 (2.8%)	2.61	168/2500 (6.7%)
1	4Q	2.16	53/1841 (2.9%)	2.57	149/2500 (6.0%)
1	4R	2.25	63/1841 (3.4%)	2.44	118/2500 (4.7%)
1	4S	2.24	65/1841 (3.5%)	2.56	137/2500 (5.5%)
1	4T	2.22	65/1841 (3.5%)	2.53	144/2500 (5.8%)
1	4U	2.15	52/1841 (2.8%)	2.63	170/2500 (6.8%)
1	4V	2.17	56/1841 (3.0%)	2.55	150/2500 (6.0%)
1	4W	2.18	58/1841 (3.2%)	2.58	145/2500 (5.8%)
1	4X	2.21	58/1841 (3.2%)	2.59	157/2500 (6.3%)
1	4Y	2.13	48/1841 (2.6%)	2.66	160/2500 (6.4%)
1	4Z	2.18	64/1841 (3.5%)	2.71	179/2500 (7.2%)
1	4a	2.19	50/1841 (2.7%)	2.64	172/2500 (6.9%)
1	4b	2.20	72/1841 (3.9%)	2.64	159/2500 (6.4%)
1	4c	2.20	59/1841 (3.2%)	2.64	146/2500 (5.8%)
1	4d	2.19	59/1841 (3.2%)	2.63	164/2500 (6.6%)
1	4e	2.21	56/1841 (3.0%)	2.53	141/2500 (5.6%)
1	4f	2.27	71/1841 (3.9%)	2.59	156/2500 (6.2%)
1	4g	2.13	42/1841 (2.3%)	2.49	139/2500 (5.6%)
1	4h	2.18	63/1841 (3.4%)	2.69	179/2500 (7.2%)
1	4i	2.18	53/1841 (2.9%)	2.62	152/2500 (6.1%)
1	4j	2.21	65/1841 (3.5%)	2.57	149/2500 (6.0%)
1	4k	2.21	66/1841 (3.6%)	2.67	178/2500 (7.1%)
1	4l	2.18	52/1841 (2.8%)	2.56	155/2500 (6.2%)
1	4m	2.17	50/1841 (2.7%)	2.61	139/2500 (5.6%)
1	4n	2.24	63/1841 (3.4%)	2.57	130/2500 (5.2%)
1	4o	2.23	59/1841 (3.2%)	2.58	148/2500 (5.9%)
1	4p	2.11	43/1841 (2.3%)	2.55	146/2500 (5.8%)
1	4q	2.21	67/1841 (3.6%)	2.58	160/2500 (6.4%)
1	4r	2.23	64/1841 (3.5%)	2.58	144/2500 (5.8%)
1	4s	2.22	63/1841 (3.4%)	2.56	152/2500 (6.1%)
1	4t	2.14	55/1841 (3.0%)	2.53	137/2500 (5.5%)
1	4u	2.19	48/1841 (2.6%)	2.59	146/2500 (5.8%)
1	4v	2.21	71/1841 (3.9%)	2.55	143/2500 (5.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	4w	2.20	50/1841 (2.7%)	2.64	149/2500 (6.0%)
1	4x	2.18	62/1841 (3.4%)	2.55	137/2500 (5.5%)
1	4y	2.21	68/1841 (3.7%)	2.63	161/2500 (6.4%)
1	4z	2.15	56/1841 (3.0%)	2.57	138/2500 (5.5%)
1	5	2.23	62/1841 (3.4%)	2.54	136/2500 (5.4%)
1	50	2.19	57/1841 (3.1%)	2.52	141/2500 (5.6%)
1	51	2.19	52/1841 (2.8%)	2.56	150/2500 (6.0%)
1	52	2.23	67/1841 (3.6%)	2.53	125/2500 (5.0%)
1	53	2.24	53/1841 (2.9%)	2.62	165/2500 (6.6%)
1	54	2.27	61/1841 (3.3%)	2.64	168/2500 (6.7%)
1	55	2.22	66/1841 (3.6%)	2.60	152/2500 (6.1%)
1	56	2.26	67/1841 (3.6%)	2.50	124/2500 (5.0%)
1	57	2.21	66/1841 (3.6%)	2.57	152/2500 (6.1%)
1	58	2.25	69/1841 (3.7%)	2.62	147/2500 (5.9%)
1	59	2.25	67/1841 (3.6%)	2.60	164/2500 (6.6%)
1	5A	2.17	51/1841 (2.8%)	2.64	167/2500 (6.7%)
1	5B	2.18	60/1841 (3.3%)	2.60	142/2500 (5.7%)
1	5C	2.26	62/1841 (3.4%)	2.63	167/2500 (6.7%)
1	5D	2.16	54/1841 (2.9%)	2.58	158/2500 (6.3%)
1	5E	2.19	65/1841 (3.5%)	2.61	152/2500 (6.1%)
1	5F	2.20	56/1841 (3.0%)	2.55	137/2500 (5.5%)
1	5G	2.20	60/1841 (3.3%)	2.61	167/2500 (6.7%)
1	5H	2.22	57/1841 (3.1%)	2.60	139/2500 (5.6%)
1	5I	2.21	64/1841 (3.5%)	2.64	153/2500 (6.1%)
1	5J	2.18	51/1841 (2.8%)	2.60	142/2500 (5.7%)
1	5K	2.22	55/1841 (3.0%)	2.60	145/2500 (5.8%)
1	5L	2.24	66/1841 (3.6%)	2.58	171/2500 (6.8%)
1	5M	2.13	48/1841 (2.6%)	2.56	152/2500 (6.1%)
1	5N	2.10	41/1841 (2.2%)	2.64	150/2500 (6.0%)
1	5O	2.20	47/1841 (2.6%)	2.61	157/2500 (6.3%)
1	5P	2.24	61/1841 (3.3%)	2.57	151/2500 (6.0%)
1	5Q	2.15	59/1841 (3.2%)	2.66	169/2500 (6.8%)
1	5R	2.14	53/1841 (2.9%)	2.61	175/2500 (7.0%)
1	5S	2.18	57/1841 (3.1%)	2.64	172/2500 (6.9%)
1	5T	2.25	65/1841 (3.5%)	2.65	161/2500 (6.4%)
1	5U	2.19	61/1841 (3.3%)	2.52	134/2500 (5.4%)
1	5V	2.20	59/1841 (3.2%)	2.66	178/2500 (7.1%)
1	5W	2.27	65/1841 (3.5%)	2.61	145/2500 (5.8%)
1	5X	2.12	41/1841 (2.2%)	2.63	165/2500 (6.6%)
1	5Y	2.26	73/1841 (4.0%)	2.59	147/2500 (5.9%)
1	5Z	2.21	55/1841 (3.0%)	2.58	154/2500 (6.2%)
1	5a	2.22	65/1841 (3.5%)	2.58	148/2500 (5.9%)
1	5b	2.21	74/1841 (4.0%)	2.53	152/2500 (6.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	5c	2.25	66/1841 (3.6%)	2.61	160/2500 (6.4%)
1	5d	2.22	59/1841 (3.2%)	2.59	158/2500 (6.3%)
1	5e	2.12	51/1841 (2.8%)	2.55	140/2500 (5.6%)
1	5f	2.27	72/1841 (3.9%)	2.59	169/2500 (6.8%)
1	5g	2.23	57/1841 (3.1%)	2.56	134/2500 (5.4%)
1	5h	2.22	65/1841 (3.5%)	2.58	149/2500 (6.0%)
1	5i	2.14	53/1841 (2.9%)	2.63	163/2500 (6.5%)
1	5j	2.19	62/1841 (3.4%)	2.58	161/2500 (6.4%)
1	5k	2.24	58/1841 (3.2%)	2.58	147/2500 (5.9%)
1	5l	2.28	70/1841 (3.8%)	2.64	166/2500 (6.6%)
1	5m	2.21	63/1841 (3.4%)	2.58	123/2500 (4.9%)
1	5n	2.22	54/1841 (2.9%)	2.55	141/2500 (5.6%)
1	5o	2.15	54/1841 (2.9%)	2.53	134/2500 (5.4%)
1	5p	2.23	65/1841 (3.5%)	2.52	133/2500 (5.3%)
1	5q	2.17	53/1841 (2.9%)	2.61	167/2500 (6.7%)
1	5r	2.17	46/1841 (2.5%)	2.61	159/2500 (6.4%)
1	5s	2.18	52/1841 (2.8%)	2.63	150/2500 (6.0%)
1	5t	2.28	77/1841 (4.2%)	2.64	150/2500 (6.0%)
1	5u	2.16	56/1841 (3.0%)	2.67	163/2500 (6.5%)
1	5v	2.20	59/1841 (3.2%)	2.56	138/2500 (5.5%)
1	5w	2.21	62/1841 (3.4%)	2.52	134/2500 (5.4%)
1	5x	2.25	66/1841 (3.6%)	2.63	159/2500 (6.4%)
1	5y	2.14	57/1841 (3.1%)	2.65	157/2500 (6.3%)
1	5z	2.26	71/1841 (3.9%)	2.56	146/2500 (5.8%)
1	6	2.26	60/1841 (3.3%)	2.55	152/2500 (6.1%)
1	60	2.22	62/1841 (3.4%)	2.52	140/2500 (5.6%)
1	61	2.14	47/1841 (2.6%)	2.57	162/2500 (6.5%)
1	62	2.19	55/1841 (3.0%)	2.63	176/2500 (7.0%)
1	63	2.24	70/1841 (3.8%)	2.56	145/2500 (5.8%)
1	64	2.22	56/1841 (3.0%)	2.63	166/2500 (6.6%)
1	65	2.23	62/1841 (3.4%)	2.63	151/2500 (6.0%)
1	66	2.16	58/1841 (3.2%)	2.57	140/2500 (5.6%)
1	67	2.20	65/1841 (3.5%)	2.63	167/2500 (6.7%)
1	68	2.20	60/1841 (3.3%)	2.57	146/2500 (5.8%)
1	69	2.16	51/1841 (2.8%)	2.62	158/2500 (6.3%)
1	6A	2.26	63/1841 (3.4%)	2.70	185/2500 (7.4%)
1	6B	2.16	50/1841 (2.7%)	2.65	172/2500 (6.9%)
1	6C	2.16	47/1841 (2.6%)	2.65	147/2500 (5.9%)
1	6D	2.18	47/1841 (2.6%)	2.59	135/2500 (5.4%)
1	6E	2.11	44/1841 (2.4%)	2.66	173/2500 (6.9%)
1	6F	2.24	62/1841 (3.4%)	2.57	144/2500 (5.8%)
1	6G	2.14	50/1841 (2.7%)	2.62	168/2500 (6.7%)
1	6H	2.19	61/1841 (3.3%)	2.57	147/2500 (5.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	6I	2.15	48/1841 (2.6%)	2.62	161/2500 (6.4%)
1	6J	2.19	60/1841 (3.3%)	2.60	165/2500 (6.6%)
1	6K	2.14	54/1841 (2.9%)	2.65	150/2500 (6.0%)
1	6L	2.19	43/1841 (2.3%)	2.60	141/2500 (5.6%)
1	6M	2.23	64/1841 (3.5%)	2.61	160/2500 (6.4%)
1	6N	2.17	51/1841 (2.8%)	2.56	139/2500 (5.6%)
1	6O	2.19	57/1841 (3.1%)	2.50	135/2500 (5.4%)
1	6P	2.28	63/1841 (3.4%)	2.59	140/2500 (5.6%)
1	6Q	2.21	65/1841 (3.5%)	2.59	146/2500 (5.8%)
1	6R	2.22	55/1841 (3.0%)	2.64	158/2500 (6.3%)
1	6S	2.16	58/1841 (3.2%)	2.57	153/2500 (6.1%)
1	6T	2.16	55/1841 (3.0%)	2.58	152/2500 (6.1%)
1	6U	2.20	58/1841 (3.2%)	2.55	139/2500 (5.6%)
1	6V	2.17	53/1841 (2.9%)	2.53	123/2500 (4.9%)
1	6W	2.21	64/1841 (3.5%)	2.65	155/2500 (6.2%)
1	6X	2.18	49/1841 (2.7%)	2.57	154/2500 (6.2%)
1	6Y	2.25	62/1841 (3.4%)	2.54	123/2500 (4.9%)
1	6Z	2.12	46/1841 (2.5%)	2.66	167/2500 (6.7%)
1	6a	2.24	64/1841 (3.5%)	2.62	167/2500 (6.7%)
1	6b	2.16	58/1841 (3.2%)	2.59	136/2500 (5.4%)
1	6c	2.20	51/1841 (2.8%)	2.60	147/2500 (5.9%)
1	6d	2.21	61/1841 (3.3%)	2.58	139/2500 (5.6%)
1	6e	2.22	49/1841 (2.7%)	2.61	165/2500 (6.6%)
1	6f	2.20	60/1841 (3.3%)	2.55	139/2500 (5.6%)
1	6g	2.18	61/1841 (3.3%)	2.67	184/2500 (7.4%)
1	6h	2.24	73/1841 (4.0%)	2.64	141/2500 (5.6%)
1	6i	2.17	54/1841 (2.9%)	2.62	159/2500 (6.4%)
1	6j	2.26	71/1841 (3.9%)	2.67	170/2500 (6.8%)
1	6k	2.24	66/1841 (3.6%)	2.60	145/2500 (5.8%)
1	6l	2.23	70/1841 (3.8%)	2.58	146/2500 (5.8%)
1	6m	2.23	56/1841 (3.0%)	2.52	135/2500 (5.4%)
1	6n	2.17	49/1841 (2.7%)	2.65	165/2500 (6.6%)
1	6o	2.22	59/1841 (3.2%)	2.59	146/2500 (5.8%)
1	6p	2.25	62/1841 (3.4%)	2.67	166/2500 (6.6%)
1	6q	2.20	57/1841 (3.1%)	2.53	135/2500 (5.4%)
1	6r	2.20	61/1841 (3.3%)	2.52	144/2500 (5.8%)
1	6s	2.23	62/1841 (3.4%)	2.68	175/2500 (7.0%)
1	6t	2.26	68/1841 (3.7%)	2.62	158/2500 (6.3%)
1	6u	2.25	68/1841 (3.7%)	2.52	136/2500 (5.4%)
1	6v	2.25	62/1841 (3.4%)	2.60	141/2500 (5.6%)
1	6w	2.21	62/1841 (3.4%)	2.61	145/2500 (5.8%)
1	6x	2.16	55/1841 (3.0%)	2.55	140/2500 (5.6%)
1	6y	2.15	55/1841 (3.0%)	2.61	149/2500 (6.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	6z	2.21	54/1841 (2.9%)	2.63	163/2500 (6.5%)
1	7	2.24	69/1841 (3.7%)	2.59	133/2500 (5.3%)
1	70	2.29	68/1841 (3.7%)	2.59	160/2500 (6.4%)
1	71	2.15	54/1841 (2.9%)	2.57	151/2500 (6.0%)
1	72	2.20	59/1841 (3.2%)	2.59	161/2500 (6.4%)
1	73	2.26	71/1841 (3.9%)	2.55	147/2500 (5.9%)
1	74	2.20	52/1841 (2.8%)	2.48	124/2500 (5.0%)
1	75	2.13	55/1841 (3.0%)	2.57	135/2500 (5.4%)
1	76	2.19	63/1841 (3.4%)	2.49	111/2500 (4.4%)
1	77	2.26	66/1841 (3.6%)	2.50	129/2500 (5.2%)
1	78	2.18	59/1841 (3.2%)	2.61	155/2500 (6.2%)
1	79	2.27	65/1841 (3.5%)	2.57	138/2500 (5.5%)
1	7A	2.21	55/1841 (3.0%)	2.57	173/2500 (6.9%)
1	7B	2.19	62/1841 (3.4%)	2.67	156/2500 (6.2%)
1	7C	2.18	56/1841 (3.0%)	2.62	158/2500 (6.3%)
1	7D	2.23	56/1841 (3.0%)	2.64	168/2500 (6.7%)
1	7E	2.25	57/1841 (3.1%)	2.67	182/2500 (7.3%)
1	7F	2.17	57/1841 (3.1%)	2.53	139/2500 (5.6%)
1	7G	2.20	47/1841 (2.6%)	2.56	142/2500 (5.7%)
1	7H	2.21	67/1841 (3.6%)	2.62	164/2500 (6.6%)
1	7I	2.17	51/1841 (2.8%)	2.52	135/2500 (5.4%)
1	7J	2.22	60/1841 (3.3%)	2.59	147/2500 (5.9%)
1	7K	2.25	70/1841 (3.8%)	2.65	164/2500 (6.6%)
1	7L	2.14	45/1841 (2.4%)	2.58	151/2500 (6.0%)
1	7M	2.29	62/1841 (3.4%)	2.64	157/2500 (6.3%)
1	7N	2.32	68/1841 (3.7%)	2.51	135/2500 (5.4%)
1	7O	2.20	61/1841 (3.3%)	2.59	138/2500 (5.5%)
1	7P	2.26	64/1841 (3.5%)	2.58	161/2500 (6.4%)
1	7Q	2.19	55/1841 (3.0%)	2.60	171/2500 (6.8%)
1	7R	2.22	62/1841 (3.4%)	2.61	156/2500 (6.2%)
1	7S	2.19	56/1841 (3.0%)	2.62	161/2500 (6.4%)
1	7T	2.20	54/1841 (2.9%)	2.54	129/2500 (5.2%)
1	7U	2.16	65/1841 (3.5%)	2.57	146/2500 (5.8%)
1	7V	2.24	70/1841 (3.8%)	2.59	144/2500 (5.8%)
1	7W	2.17	50/1841 (2.7%)	2.64	150/2500 (6.0%)
1	7X	2.27	68/1841 (3.7%)	2.49	113/2500 (4.5%)
1	7Y	2.14	50/1841 (2.7%)	2.63	168/2500 (6.7%)
1	7Z	2.19	52/1841 (2.8%)	2.68	171/2500 (6.8%)
1	7a	2.17	54/1841 (2.9%)	2.60	168/2500 (6.7%)
1	7b	2.25	61/1841 (3.3%)	2.63	153/2500 (6.1%)
1	7c	2.14	46/1841 (2.5%)	2.61	171/2500 (6.8%)
1	7d	2.25	51/1841 (2.8%)	2.61	163/2500 (6.5%)
1	7e	2.17	53/1841 (2.9%)	2.60	142/2500 (5.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	7f	2.17	66/1841 (3.6%)	2.54	137/2500 (5.5%)
1	7g	2.20	59/1841 (3.2%)	2.64	158/2500 (6.3%)
1	7h	2.15	44/1841 (2.4%)	2.60	162/2500 (6.5%)
1	7i	2.19	55/1841 (3.0%)	2.57	141/2500 (5.6%)
1	7j	2.17	58/1841 (3.2%)	2.64	166/2500 (6.6%)
1	7k	2.21	68/1841 (3.7%)	2.58	157/2500 (6.3%)
1	7l	2.15	61/1841 (3.3%)	2.66	160/2500 (6.4%)
1	7m	2.22	67/1841 (3.6%)	2.66	177/2500 (7.1%)
1	7n	2.16	47/1841 (2.6%)	2.59	158/2500 (6.3%)
1	7o	2.19	52/1841 (2.8%)	2.61	166/2500 (6.6%)
1	7p	2.13	56/1841 (3.0%)	2.56	152/2500 (6.1%)
1	7q	2.19	59/1841 (3.2%)	2.61	157/2500 (6.3%)
1	7r	2.14	50/1841 (2.7%)	2.59	134/2500 (5.4%)
1	7s	2.20	58/1841 (3.2%)	2.58	138/2500 (5.5%)
1	7t	2.15	54/1841 (2.9%)	2.63	155/2500 (6.2%)
1	7u	2.20	52/1841 (2.8%)	2.68	174/2500 (7.0%)
1	7v	2.23	62/1841 (3.4%)	2.55	134/2500 (5.4%)
1	7w	2.19	60/1841 (3.3%)	2.64	139/2500 (5.6%)
1	7x	2.18	58/1841 (3.2%)	2.59	158/2500 (6.3%)
1	7y	2.23	51/1841 (2.8%)	2.67	164/2500 (6.6%)
1	7z	2.21	54/1841 (2.9%)	2.54	144/2500 (5.8%)
1	8	2.17	62/1841 (3.4%)	2.59	148/2500 (5.9%)
1	80	2.14	52/1841 (2.8%)	2.55	136/2500 (5.4%)
1	81	2.10	47/1841 (2.6%)	2.58	151/2500 (6.0%)
1	82	2.16	54/1841 (2.9%)	2.61	171/2500 (6.8%)
1	83	2.17	61/1841 (3.3%)	2.62	151/2500 (6.0%)
1	84	2.23	62/1841 (3.4%)	2.60	154/2500 (6.2%)
1	85	2.24	64/1841 (3.5%)	2.64	164/2500 (6.6%)
1	86	2.21	62/1841 (3.4%)	2.63	170/2500 (6.8%)
1	87	2.13	54/1841 (2.9%)	2.63	157/2500 (6.3%)
1	88	2.18	62/1841 (3.4%)	2.58	142/2500 (5.7%)
1	89	2.18	50/1841 (2.7%)	2.58	143/2500 (5.7%)
1	8A	2.20	54/1841 (2.9%)	2.62	154/2500 (6.2%)
1	8B	2.13	49/1841 (2.7%)	2.63	154/2500 (6.2%)
1	8C	2.26	68/1841 (3.7%)	2.60	148/2500 (5.9%)
1	8D	2.20	60/1841 (3.3%)	2.66	170/2500 (6.8%)
1	8E	2.18	53/1841 (2.9%)	2.57	156/2500 (6.2%)
1	8F	2.20	60/1841 (3.3%)	2.49	146/2500 (5.8%)
1	8G	2.20	60/1841 (3.3%)	2.57	133/2500 (5.3%)
1	8H	2.20	58/1841 (3.2%)	2.63	169/2500 (6.8%)
1	8I	2.25	65/1841 (3.5%)	2.52	136/2500 (5.4%)
1	8J	2.22	59/1841 (3.2%)	2.55	163/2500 (6.5%)
1	8K	2.20	58/1841 (3.2%)	2.56	143/2500 (5.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	8L	2.19	57/1841 (3.1%)	2.61	144/2500 (5.8%)
1	8M	2.27	64/1841 (3.5%)	2.62	160/2500 (6.4%)
1	8N	2.26	66/1841 (3.6%)	2.65	174/2500 (7.0%)
1	8O	2.25	69/1841 (3.7%)	2.62	159/2500 (6.4%)
1	8P	2.30	76/1841 (4.1%)	2.59	156/2500 (6.2%)
1	8Q	2.27	67/1841 (3.6%)	2.52	132/2500 (5.3%)
1	8R	2.22	61/1841 (3.3%)	2.63	160/2500 (6.4%)
1	8S	2.18	51/1841 (2.8%)	2.54	134/2500 (5.4%)
1	8T	2.20	57/1841 (3.1%)	2.60	145/2500 (5.8%)
1	8U	2.19	56/1841 (3.0%)	2.66	155/2500 (6.2%)
1	8V	2.21	61/1841 (3.3%)	2.56	147/2500 (5.9%)
1	8W	2.18	57/1841 (3.1%)	2.61	142/2500 (5.7%)
1	8X	2.23	62/1841 (3.4%)	2.66	171/2500 (6.8%)
1	8Y	2.23	65/1841 (3.5%)	2.57	141/2500 (5.6%)
1	8Z	2.16	51/1841 (2.8%)	2.56	146/2500 (5.8%)
1	8a	2.26	57/1841 (3.1%)	2.62	162/2500 (6.5%)
1	8b	2.29	68/1841 (3.7%)	2.57	149/2500 (6.0%)
1	8c	2.16	47/1841 (2.6%)	2.54	151/2500 (6.0%)
1	8d	2.18	53/1841 (2.9%)	2.59	155/2500 (6.2%)
1	8e	2.23	66/1841 (3.6%)	2.54	133/2500 (5.3%)
1	8f	2.17	52/1841 (2.8%)	2.55	126/2500 (5.0%)
1	8g	2.22	62/1841 (3.4%)	2.55	139/2500 (5.6%)
1	8h	2.21	58/1841 (3.2%)	2.59	146/2500 (5.8%)
1	8i	2.22	61/1841 (3.3%)	2.59	147/2500 (5.9%)
1	8j	2.22	62/1841 (3.4%)	2.61	161/2500 (6.4%)
1	8k	2.18	57/1841 (3.1%)	2.63	162/2500 (6.5%)
1	8l	2.21	54/1841 (2.9%)	2.65	170/2500 (6.8%)
1	8m	2.17	60/1841 (3.3%)	2.61	162/2500 (6.5%)
1	8n	2.18	55/1841 (3.0%)	2.60	149/2500 (6.0%)
1	8o	2.20	55/1841 (3.0%)	2.61	162/2500 (6.5%)
1	8p	2.13	42/1841 (2.3%)	2.59	152/2500 (6.1%)
1	8q	2.17	59/1841 (3.2%)	2.60	145/2500 (5.8%)
1	8r	2.14	52/1841 (2.8%)	2.52	120/2500 (4.8%)
1	8s	2.20	50/1841 (2.7%)	2.54	123/2500 (4.9%)
1	8t	2.22	71/1841 (3.9%)	2.64	166/2500 (6.6%)
1	8u	2.19	53/1841 (2.9%)	2.51	139/2500 (5.6%)
1	8v	2.19	50/1841 (2.7%)	2.60	140/2500 (5.6%)
1	8w	2.16	58/1841 (3.2%)	2.54	148/2500 (5.9%)
1	8x	2.19	54/1841 (2.9%)	2.59	157/2500 (6.3%)
1	8y	2.24	64/1841 (3.5%)	2.59	136/2500 (5.4%)
1	8z	2.25	67/1841 (3.6%)	2.63	153/2500 (6.1%)
1	9	2.22	57/1841 (3.1%)	2.57	142/2500 (5.7%)
1	90	2.26	59/1841 (3.2%)	2.60	147/2500 (5.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	91	2.16	50/1841 (2.7%)	2.64	159/2500 (6.4%)
1	92	2.18	56/1841 (3.0%)	2.61	155/2500 (6.2%)
1	93	2.23	53/1841 (2.9%)	2.62	146/2500 (5.8%)
1	94	2.20	62/1841 (3.4%)	2.64	157/2500 (6.3%)
1	95	2.19	51/1841 (2.8%)	2.68	160/2500 (6.4%)
1	96	2.25	66/1841 (3.6%)	2.68	178/2500 (7.1%)
1	97	2.18	58/1841 (3.2%)	2.54	141/2500 (5.6%)
1	98	2.22	55/1841 (3.0%)	2.63	149/2500 (6.0%)
1	99	2.21	52/1841 (2.8%)	2.51	124/2500 (5.0%)
1	9A	2.07	39/1841 (2.1%)	2.50	138/2500 (5.5%)
1	9B	2.22	61/1841 (3.3%)	2.61	155/2500 (6.2%)
1	9C	2.22	53/1841 (2.9%)	2.58	140/2500 (5.6%)
1	9D	2.14	56/1841 (3.0%)	2.62	139/2500 (5.6%)
1	9E	2.22	63/1841 (3.4%)	2.60	151/2500 (6.0%)
1	9F	2.23	63/1841 (3.4%)	2.55	136/2500 (5.4%)
1	9G	2.17	58/1841 (3.2%)	2.63	171/2500 (6.8%)
1	9H	2.25	69/1841 (3.7%)	2.66	175/2500 (7.0%)
1	9I	2.26	62/1841 (3.4%)	2.54	148/2500 (5.9%)
1	9J	2.16	52/1841 (2.8%)	2.61	158/2500 (6.3%)
1	9K	2.14	49/1841 (2.7%)	2.65	166/2500 (6.6%)
1	9L	2.25	62/1841 (3.4%)	2.54	142/2500 (5.7%)
1	9M	2.17	50/1841 (2.7%)	2.58	139/2500 (5.6%)
1	9N	2.23	51/1841 (2.8%)	2.67	182/2500 (7.3%)
1	9O	2.24	58/1841 (3.2%)	2.64	166/2500 (6.6%)
1	9P	2.22	60/1841 (3.3%)	2.56	161/2500 (6.4%)
1	9Q	2.27	67/1841 (3.6%)	2.52	119/2500 (4.8%)
1	9R	2.20	61/1841 (3.3%)	2.54	148/2500 (5.9%)
1	9S	2.26	79/1841 (4.3%)	2.63	162/2500 (6.5%)
1	9T	2.21	56/1841 (3.0%)	2.54	126/2500 (5.0%)
1	9U	2.26	70/1841 (3.8%)	2.58	157/2500 (6.3%)
1	9V	2.25	56/1841 (3.0%)	2.54	142/2500 (5.7%)
1	9W	2.22	57/1841 (3.1%)	2.57	142/2500 (5.7%)
1	9X	2.18	62/1841 (3.4%)	2.64	157/2500 (6.3%)
1	9Y	2.22	58/1841 (3.2%)	2.60	156/2500 (6.2%)
1	9Z	2.20	63/1841 (3.4%)	2.69	188/2500 (7.5%)
1	9a	2.17	54/1841 (2.9%)	2.60	154/2500 (6.2%)
1	9b	2.19	53/1841 (2.9%)	2.52	146/2500 (5.8%)
1	9c	2.18	51/1841 (2.8%)	2.65	160/2500 (6.4%)
1	9d	2.21	61/1841 (3.3%)	2.65	170/2500 (6.8%)
1	9e	2.24	63/1841 (3.4%)	2.61	154/2500 (6.2%)
1	9f	2.15	55/1841 (3.0%)	2.57	157/2500 (6.3%)
1	9g	2.18	68/1841 (3.7%)	2.58	157/2500 (6.3%)
1	9h	2.21	53/1841 (2.9%)	2.56	142/2500 (5.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	9i	2.23	58/1841 (3.2%)	2.57	173/2500 (6.9%)
1	9j	2.20	59/1841 (3.2%)	2.65	187/2500 (7.5%)
1	9k	2.25	61/1841 (3.3%)	2.64	153/2500 (6.1%)
1	9l	2.17	58/1841 (3.2%)	2.56	144/2500 (5.8%)
1	9m	2.19	63/1841 (3.4%)	2.62	145/2500 (5.8%)
1	9n	2.23	62/1841 (3.4%)	2.53	130/2500 (5.2%)
1	9o	2.22	57/1841 (3.1%)	2.56	150/2500 (6.0%)
1	9p	2.26	60/1841 (3.3%)	2.54	142/2500 (5.7%)
1	9q	2.15	53/1841 (2.9%)	2.60	150/2500 (6.0%)
1	9r	2.17	50/1841 (2.7%)	2.61	164/2500 (6.6%)
1	9s	2.28	75/1841 (4.1%)	2.60	143/2500 (5.7%)
1	9t	2.26	66/1841 (3.6%)	2.63	162/2500 (6.5%)
1	9u	2.18	49/1841 (2.7%)	2.61	156/2500 (6.2%)
1	9v	2.20	57/1841 (3.1%)	2.55	139/2500 (5.6%)
1	9w	2.24	67/1841 (3.6%)	2.59	156/2500 (6.2%)
1	9x	2.21	52/1841 (2.8%)	2.55	138/2500 (5.5%)
1	9y	2.17	51/1841 (2.8%)	2.68	173/2500 (6.9%)
1	9z	2.26	65/1841 (3.5%)	2.58	163/2500 (6.5%)
1	A	2.18	52/1841 (2.8%)	2.59	151/2500 (6.0%)
1	B	2.17	59/1841 (3.2%)	2.55	133/2500 (5.3%)
1	C	2.21	64/1841 (3.5%)	2.70	198/2500 (7.9%)
1	D	2.22	66/1841 (3.6%)	2.53	145/2500 (5.8%)
1	E	2.16	52/1841 (2.8%)	2.52	140/2500 (5.6%)
1	F	2.24	68/1841 (3.7%)	2.55	160/2500 (6.4%)
1	G	2.16	54/1841 (2.9%)	2.53	124/2500 (5.0%)
1	H	2.22	54/1841 (2.9%)	2.62	156/2500 (6.2%)
1	I	2.17	45/1841 (2.4%)	2.49	131/2500 (5.2%)
1	J	2.22	55/1841 (3.0%)	2.50	127/2500 (5.1%)
1	K	2.12	48/1841 (2.6%)	2.56	149/2500 (6.0%)
1	L	2.22	59/1841 (3.2%)	2.47	126/2500 (5.0%)
1	M	2.29	79/1841 (4.3%)	2.61	148/2500 (5.9%)
1	N	2.15	44/1841 (2.4%)	2.68	170/2500 (6.8%)
1	O	2.21	56/1841 (3.0%)	2.70	165/2500 (6.6%)
1	P	2.21	51/1841 (2.8%)	2.62	137/2500 (5.5%)
1	Q	2.21	60/1841 (3.3%)	2.60	146/2500 (5.8%)
1	R	2.29	76/1841 (4.1%)	2.61	153/2500 (6.1%)
1	S	2.25	63/1841 (3.4%)	2.52	133/2500 (5.3%)
1	T	2.24	73/1841 (4.0%)	2.67	156/2500 (6.2%)
1	U	2.14	43/1841 (2.3%)	2.56	131/2500 (5.2%)
1	V	2.25	65/1841 (3.5%)	2.63	170/2500 (6.8%)
1	W	2.17	46/1841 (2.5%)	2.59	154/2500 (6.2%)
1	X	2.20	63/1841 (3.4%)	2.57	138/2500 (5.5%)
1	Y	2.26	66/1841 (3.6%)	2.61	150/2500 (6.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	Z	2.25	66/1841 (3.6%)	2.64	160/2500 (6.4%)
1	a	2.14	55/1841 (3.0%)	2.54	139/2500 (5.6%)
1	a0	2.19	55/1841 (3.0%)	2.55	138/2500 (5.5%)
1	a1	2.20	62/1841 (3.4%)	2.64	154/2500 (6.2%)
1	a2	2.18	63/1841 (3.4%)	2.58	151/2500 (6.0%)
1	a3	2.27	71/1841 (3.9%)	2.55	128/2500 (5.1%)
1	a4	2.18	60/1841 (3.3%)	2.60	149/2500 (6.0%)
1	a5	2.21	65/1841 (3.5%)	2.64	155/2500 (6.2%)
1	a6	2.17	43/1841 (2.3%)	2.55	134/2500 (5.4%)
1	a7	2.22	63/1841 (3.4%)	2.57	145/2500 (5.8%)
1	a8	2.24	67/1841 (3.6%)	2.58	149/2500 (6.0%)
1	a9	2.19	54/1841 (2.9%)	2.58	171/2500 (6.8%)
1	aA	2.22	61/1841 (3.3%)	2.58	152/2500 (6.1%)
1	aB	2.23	52/1841 (2.8%)	2.54	142/2500 (5.7%)
1	aC	2.25	60/1841 (3.3%)	2.58	145/2500 (5.8%)
1	aD	2.27	71/1841 (3.9%)	2.56	141/2500 (5.6%)
1	aE	2.24	67/1841 (3.6%)	2.62	157/2500 (6.3%)
1	aF	2.20	59/1841 (3.2%)	2.57	153/2500 (6.1%)
1	aG	2.26	59/1841 (3.2%)	2.57	148/2500 (5.9%)
1	aH	2.16	48/1841 (2.6%)	2.59	156/2500 (6.2%)
1	aI	2.21	64/1841 (3.5%)	2.68	161/2500 (6.4%)
1	aJ	2.19	52/1841 (2.8%)	2.59	132/2500 (5.3%)
1	aK	2.23	56/1841 (3.0%)	2.64	162/2500 (6.5%)
1	aL	2.24	66/1841 (3.6%)	2.65	155/2500 (6.2%)
1	aM	2.17	53/1841 (2.9%)	2.56	141/2500 (5.6%)
1	aN	2.19	60/1841 (3.3%)	2.59	145/2500 (5.8%)
1	aO	2.26	72/1841 (3.9%)	2.57	132/2500 (5.3%)
1	aP	2.19	62/1841 (3.4%)	2.56	141/2500 (5.6%)
1	aQ	2.19	47/1841 (2.6%)	2.62	164/2500 (6.6%)
1	aR	2.16	51/1841 (2.8%)	2.59	145/2500 (5.8%)
1	aS	2.21	47/1841 (2.6%)	2.53	140/2500 (5.6%)
1	aT	2.27	71/1841 (3.9%)	2.60	146/2500 (5.8%)
1	aU	2.14	51/1841 (2.8%)	2.66	171/2500 (6.8%)
1	aV	2.30	58/1841 (3.2%)	2.64	163/2500 (6.5%)
1	aW	2.25	62/1841 (3.4%)	2.67	175/2500 (7.0%)
1	aX	2.27	62/1841 (3.4%)	2.58	160/2500 (6.4%)
1	aY	2.12	47/1841 (2.6%)	2.57	159/2500 (6.4%)
1	aZ	2.19	56/1841 (3.0%)	2.53	147/2500 (5.9%)
1	aa	2.27	65/1841 (3.5%)	2.53	142/2500 (5.7%)
1	ab	2.23	62/1841 (3.4%)	2.68	177/2500 (7.1%)
1	ac	2.17	44/1841 (2.4%)	2.56	146/2500 (5.8%)
1	ad	2.23	64/1841 (3.5%)	2.61	145/2500 (5.8%)
1	ae	2.23	63/1841 (3.4%)	2.65	163/2500 (6.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	af	2.24	57/1841 (3.1%)	2.53	131/2500 (5.2%)
1	ag	2.20	63/1841 (3.4%)	2.55	135/2500 (5.4%)
1	ah	2.26	58/1841 (3.2%)	2.64	165/2500 (6.6%)
1	ai	2.12	55/1841 (3.0%)	2.59	141/2500 (5.6%)
1	aj	2.25	67/1841 (3.6%)	2.59	147/2500 (5.9%)
1	ak	2.20	63/1841 (3.4%)	2.71	187/2500 (7.5%)
1	al	2.17	51/1841 (2.8%)	2.57	137/2500 (5.5%)
1	am	2.22	59/1841 (3.2%)	2.55	131/2500 (5.2%)
1	an	2.26	65/1841 (3.5%)	2.57	155/2500 (6.2%)
1	ao	2.18	59/1841 (3.2%)	2.51	145/2500 (5.8%)
1	ap	2.19	51/1841 (2.8%)	2.61	166/2500 (6.6%)
1	aq	2.19	65/1841 (3.5%)	2.65	169/2500 (6.8%)
1	ar	2.25	68/1841 (3.7%)	2.59	148/2500 (5.9%)
1	as	2.21	55/1841 (3.0%)	2.57	163/2500 (6.5%)
1	at	2.22	63/1841 (3.4%)	2.62	164/2500 (6.6%)
1	au	2.26	55/1841 (3.0%)	2.68	175/2500 (7.0%)
1	av	2.22	54/1841 (2.9%)	2.54	123/2500 (4.9%)
1	aw	2.20	57/1841 (3.1%)	2.63	144/2500 (5.8%)
1	ax	2.23	63/1841 (3.4%)	2.60	160/2500 (6.4%)
1	ay	2.23	63/1841 (3.4%)	2.49	123/2500 (4.9%)
1	az	2.20	61/1841 (3.3%)	2.55	132/2500 (5.3%)
1	b	2.13	41/1841 (2.2%)	2.61	154/2500 (6.2%)
1	b0	2.22	60/1841 (3.3%)	2.67	171/2500 (6.8%)
1	b1	2.21	62/1841 (3.4%)	2.56	134/2500 (5.4%)
1	b2	2.18	49/1841 (2.7%)	2.51	122/2500 (4.9%)
1	b3	2.21	60/1841 (3.3%)	2.60	166/2500 (6.6%)
1	b4	2.17	56/1841 (3.0%)	2.54	139/2500 (5.6%)
1	b5	2.23	60/1841 (3.3%)	2.55	145/2500 (5.8%)
1	b6	2.22	60/1841 (3.3%)	2.52	126/2500 (5.0%)
1	b7	2.24	66/1841 (3.6%)	2.57	152/2500 (6.1%)
1	b8	2.20	62/1841 (3.4%)	2.65	171/2500 (6.8%)
1	b9	2.22	67/1841 (3.6%)	2.56	119/2500 (4.8%)
1	bA	2.22	63/1841 (3.4%)	2.61	163/2500 (6.5%)
1	bB	2.17	51/1841 (2.8%)	2.65	149/2500 (6.0%)
1	bC	2.18	50/1841 (2.7%)	2.63	159/2500 (6.4%)
1	bD	2.18	56/1841 (3.0%)	2.55	149/2500 (6.0%)
1	bE	2.22	68/1841 (3.7%)	2.61	152/2500 (6.1%)
1	bF	2.18	50/1841 (2.7%)	2.57	143/2500 (5.7%)
1	bG	2.20	59/1841 (3.2%)	2.60	155/2500 (6.2%)
1	bH	2.24	68/1841 (3.7%)	2.63	150/2500 (6.0%)
1	bI	2.20	47/1841 (2.6%)	2.52	134/2500 (5.4%)
1	bJ	2.23	65/1841 (3.5%)	2.59	134/2500 (5.4%)
1	bK	2.16	49/1841 (2.7%)	2.56	144/2500 (5.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	bL	2.20	56/1841 (3.0%)	2.49	124/2500 (5.0%)
1	bM	2.29	77/1841 (4.2%)	2.57	151/2500 (6.0%)
1	bN	2.22	54/1841 (2.9%)	2.57	145/2500 (5.8%)
1	bO	2.27	59/1841 (3.2%)	2.58	137/2500 (5.5%)
1	bP	2.21	59/1841 (3.2%)	2.61	154/2500 (6.2%)
1	bQ	2.24	55/1841 (3.0%)	2.54	151/2500 (6.0%)
1	bR	2.25	73/1841 (4.0%)	2.62	154/2500 (6.2%)
1	bS	2.19	51/1841 (2.8%)	2.57	148/2500 (5.9%)
1	bT	2.26	68/1841 (3.7%)	2.63	149/2500 (6.0%)
1	bU	2.23	60/1841 (3.3%)	2.55	138/2500 (5.5%)
1	bV	2.21	48/1841 (2.6%)	2.57	154/2500 (6.2%)
1	bW	2.16	60/1841 (3.3%)	2.62	158/2500 (6.3%)
1	bX	2.19	56/1841 (3.0%)	2.56	138/2500 (5.5%)
1	bY	2.23	67/1841 (3.6%)	2.66	181/2500 (7.2%)
1	bZ	2.14	43/1841 (2.3%)	2.57	139/2500 (5.6%)
1	ba	2.27	68/1841 (3.7%)	2.65	164/2500 (6.6%)
1	bb	2.17	57/1841 (3.1%)	2.59	162/2500 (6.5%)
1	bc	2.21	48/1841 (2.6%)	2.62	156/2500 (6.2%)
1	bd	2.23	57/1841 (3.1%)	2.61	161/2500 (6.4%)
1	be	2.15	46/1841 (2.5%)	2.61	156/2500 (6.2%)
1	bf	2.16	49/1841 (2.7%)	2.70	186/2500 (7.4%)
1	bg	2.24	66/1841 (3.6%)	2.59	154/2500 (6.2%)
1	bh	2.25	72/1841 (3.9%)	2.55	140/2500 (5.6%)
1	bi	2.22	56/1841 (3.0%)	2.73	170/2500 (6.8%)
1	bj	2.17	45/1841 (2.4%)	2.55	137/2500 (5.5%)
1	bk	2.25	63/1841 (3.4%)	2.56	140/2500 (5.6%)
1	bl	2.18	56/1841 (3.0%)	2.56	133/2500 (5.3%)
1	bm	2.23	68/1841 (3.7%)	2.57	137/2500 (5.5%)
1	bn	2.26	70/1841 (3.8%)	2.55	142/2500 (5.7%)
1	bo	2.18	55/1841 (3.0%)	2.58	140/2500 (5.6%)
1	bp	2.18	46/1841 (2.5%)	2.60	138/2500 (5.5%)
1	bq	2.20	57/1841 (3.1%)	2.57	148/2500 (5.9%)
1	br	2.19	54/1841 (2.9%)	2.59	158/2500 (6.3%)
1	bs	2.26	67/1841 (3.6%)	2.57	145/2500 (5.8%)
1	bt	2.19	64/1841 (3.5%)	2.48	107/2500 (4.3%)
1	bu	2.28	73/1841 (4.0%)	2.57	143/2500 (5.7%)
1	bv	2.22	62/1841 (3.4%)	2.66	156/2500 (6.2%)
1	bw	2.22	62/1841 (3.4%)	2.61	169/2500 (6.8%)
1	bx	2.26	70/1841 (3.8%)	2.62	163/2500 (6.5%)
1	by	2.14	47/1841 (2.6%)	2.53	143/2500 (5.7%)
1	bz	2.20	67/1841 (3.6%)	2.53	140/2500 (5.6%)
1	c	2.22	61/1841 (3.3%)	2.65	158/2500 (6.3%)
1	c0	2.18	48/1841 (2.6%)	2.53	139/2500 (5.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	c1	2.21	46/1841 (2.5%)	2.60	163/2500 (6.5%)
1	c2	2.31	76/1841 (4.1%)	2.63	168/2500 (6.7%)
1	c3	2.24	69/1841 (3.7%)	2.67	170/2500 (6.8%)
1	c4	2.26	68/1841 (3.7%)	2.51	132/2500 (5.3%)
1	c5	2.28	63/1841 (3.4%)	2.69	175/2500 (7.0%)
1	c6	2.21	52/1841 (2.8%)	2.59	134/2500 (5.4%)
1	c7	2.18	57/1841 (3.1%)	2.59	157/2500 (6.3%)
1	c8	2.21	64/1841 (3.5%)	2.64	168/2500 (6.7%)
1	c9	2.32	68/1841 (3.7%)	2.60	150/2500 (6.0%)
1	cA	2.18	54/1841 (2.9%)	2.59	147/2500 (5.9%)
1	cB	2.19	63/1841 (3.4%)	2.53	146/2500 (5.8%)
1	cC	2.17	50/1841 (2.7%)	2.65	155/2500 (6.2%)
1	cD	2.14	54/1841 (2.9%)	2.64	167/2500 (6.7%)
1	cE	2.18	54/1841 (2.9%)	2.65	165/2500 (6.6%)
1	cF	2.18	61/1841 (3.3%)	2.63	151/2500 (6.0%)
1	cG	2.16	52/1841 (2.8%)	2.54	126/2500 (5.0%)
1	cH	2.15	62/1841 (3.4%)	2.56	136/2500 (5.4%)
1	cI	2.20	56/1841 (3.0%)	2.56	147/2500 (5.9%)
1	cJ	2.17	52/1841 (2.8%)	2.58	156/2500 (6.2%)
1	cK	2.29	72/1841 (3.9%)	2.60	162/2500 (6.5%)
1	cL	2.17	54/1841 (2.9%)	2.55	135/2500 (5.4%)
1	cM	2.26	70/1841 (3.8%)	2.59	152/2500 (6.1%)
1	cN	2.14	52/1841 (2.8%)	2.58	138/2500 (5.5%)
1	cO	2.17	50/1841 (2.7%)	2.69	180/2500 (7.2%)
1	cP	2.20	55/1841 (3.0%)	2.56	141/2500 (5.6%)
1	cQ	2.13	50/1841 (2.7%)	2.67	185/2500 (7.4%)
1	cR	2.21	67/1841 (3.6%)	2.63	165/2500 (6.6%)
1	cS	2.22	64/1841 (3.5%)	2.61	147/2500 (5.9%)
1	cT	2.19	46/1841 (2.5%)	2.57	139/2500 (5.6%)
1	cU	2.19	62/1841 (3.4%)	2.57	157/2500 (6.3%)
1	cV	2.22	62/1841 (3.4%)	2.49	129/2500 (5.2%)
1	cW	2.15	59/1841 (3.2%)	2.67	162/2500 (6.5%)
1	cX	2.18	51/1841 (2.8%)	2.61	161/2500 (6.4%)
1	cY	2.18	63/1841 (3.4%)	2.54	159/2500 (6.4%)
1	cZ	2.25	64/1841 (3.5%)	2.56	140/2500 (5.6%)
1	ca	2.24	59/1841 (3.2%)	2.57	141/2500 (5.6%)
1	cb	2.22	57/1841 (3.1%)	2.55	147/2500 (5.9%)
1	cc	2.20	57/1841 (3.1%)	2.57	148/2500 (5.9%)
1	cd	2.23	60/1841 (3.3%)	2.61	154/2500 (6.2%)
1	ce	2.25	62/1841 (3.4%)	2.62	157/2500 (6.3%)
1	cf	2.24	71/1841 (3.9%)	2.59	141/2500 (5.6%)
1	cg	2.19	61/1841 (3.3%)	2.57	155/2500 (6.2%)
1	ch	2.18	50/1841 (2.7%)	2.57	149/2500 (6.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	ci	2.23	65/1841 (3.5%)	2.63	150/2500 (6.0%)
1	cj	2.18	57/1841 (3.1%)	2.59	143/2500 (5.7%)
1	ck	2.24	64/1841 (3.5%)	2.52	136/2500 (5.4%)
1	cl	2.29	68/1841 (3.7%)	2.62	153/2500 (6.1%)
1	cm	2.19	54/1841 (2.9%)	2.57	143/2500 (5.7%)
1	cn	2.22	65/1841 (3.5%)	2.52	119/2500 (4.8%)
1	co	2.21	59/1841 (3.2%)	2.68	171/2500 (6.8%)
1	cp	2.21	69/1841 (3.7%)	2.57	153/2500 (6.1%)
1	cq	2.15	62/1841 (3.4%)	2.56	158/2500 (6.3%)
1	cr	2.15	49/1841 (2.7%)	2.61	164/2500 (6.6%)
1	cs	2.17	50/1841 (2.7%)	2.65	170/2500 (6.8%)
1	ct	2.26	78/1841 (4.2%)	2.64	144/2500 (5.8%)
1	cu	2.17	49/1841 (2.7%)	2.60	163/2500 (6.5%)
1	cv	2.15	58/1841 (3.2%)	2.59	152/2500 (6.1%)
1	cw	2.18	66/1841 (3.6%)	2.59	148/2500 (5.9%)
1	cx	2.19	59/1841 (3.2%)	2.52	122/2500 (4.9%)
1	cy	2.25	61/1841 (3.3%)	2.64	166/2500 (6.6%)
1	cz	2.17	52/1841 (2.8%)	2.62	168/2500 (6.7%)
1	d	2.20	60/1841 (3.3%)	2.62	149/2500 (6.0%)
1	d0	2.26	72/1841 (3.9%)	2.54	150/2500 (6.0%)
1	d1	2.22	63/1841 (3.4%)	2.56	146/2500 (5.8%)
1	d2	2.17	56/1841 (3.0%)	2.62	155/2500 (6.2%)
1	d3	2.21	62/1841 (3.4%)	2.60	155/2500 (6.2%)
1	d4	2.25	66/1841 (3.6%)	2.61	161/2500 (6.4%)
1	d5	2.18	54/1841 (2.9%)	2.56	144/2500 (5.8%)
1	d6	2.14	48/1841 (2.6%)	2.61	155/2500 (6.2%)
1	d7	2.18	50/1841 (2.7%)	2.64	165/2500 (6.6%)
1	d8	2.20	59/1841 (3.2%)	2.63	166/2500 (6.6%)
1	d9	2.17	64/1841 (3.5%)	2.59	168/2500 (6.7%)
1	dA	2.20	44/1841 (2.4%)	2.62	155/2500 (6.2%)
1	dB	2.16	52/1841 (2.8%)	2.59	139/2500 (5.6%)
1	dC	2.22	62/1841 (3.4%)	2.68	179/2500 (7.2%)
1	dD	2.28	70/1841 (3.8%)	2.58	160/2500 (6.4%)
1	dE	2.20	56/1841 (3.0%)	2.64	151/2500 (6.0%)
1	dF	2.27	73/1841 (4.0%)	2.57	152/2500 (6.1%)
1	dG	2.22	60/1841 (3.3%)	2.65	170/2500 (6.8%)
1	dH	2.19	64/1841 (3.5%)	2.52	131/2500 (5.2%)
1	dI	2.15	51/1841 (2.8%)	2.61	152/2500 (6.1%)
1	dJ	2.18	63/1841 (3.4%)	2.55	148/2500 (5.9%)
1	dK	2.23	50/1841 (2.7%)	2.62	161/2500 (6.4%)
1	dL	2.21	60/1841 (3.3%)	2.63	166/2500 (6.6%)
1	dM	2.24	58/1841 (3.2%)	2.64	159/2500 (6.4%)
1	dN	2.13	54/1841 (2.9%)	2.48	120/2500 (4.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	dO	2.26	65/1841 (3.5%)	2.55	141/2500 (5.6%)
1	dP	2.13	43/1841 (2.3%)	2.54	145/2500 (5.8%)
1	dQ	2.29	66/1841 (3.6%)	2.59	163/2500 (6.5%)
1	dR	2.21	68/1841 (3.7%)	2.60	166/2500 (6.6%)
1	dS	2.12	48/1841 (2.6%)	2.52	131/2500 (5.2%)
1	dT	2.19	61/1841 (3.3%)	2.53	139/2500 (5.6%)
1	dU	2.23	58/1841 (3.2%)	2.55	131/2500 (5.2%)
1	dV	2.14	52/1841 (2.8%)	2.55	135/2500 (5.4%)
1	dW	2.27	64/1841 (3.5%)	2.62	162/2500 (6.5%)
1	dX	2.24	72/1841 (3.9%)	2.53	139/2500 (5.6%)
1	dY	2.19	49/1841 (2.7%)	2.55	155/2500 (6.2%)
1	dZ	2.21	58/1841 (3.2%)	2.52	142/2500 (5.7%)
1	da	2.22	61/1841 (3.3%)	2.47	132/2500 (5.3%)
1	db	2.22	53/1841 (2.9%)	2.61	164/2500 (6.6%)
1	dc	2.17	55/1841 (3.0%)	2.68	184/2500 (7.4%)
1	dd	2.19	64/1841 (3.5%)	2.61	162/2500 (6.5%)
1	de	2.20	56/1841 (3.0%)	2.63	154/2500 (6.2%)
1	df	2.24	61/1841 (3.3%)	2.52	130/2500 (5.2%)
1	dg	2.14	49/1841 (2.7%)	2.66	166/2500 (6.6%)
1	dh	2.19	64/1841 (3.5%)	2.54	126/2500 (5.0%)
1	di	2.21	52/1841 (2.8%)	2.57	149/2500 (6.0%)
1	dj	2.24	63/1841 (3.4%)	2.63	148/2500 (5.9%)
1	dk	2.27	59/1841 (3.2%)	2.60	151/2500 (6.0%)
1	dl	2.12	46/1841 (2.5%)	2.59	138/2500 (5.5%)
1	dm	2.20	64/1841 (3.5%)	2.51	126/2500 (5.0%)
1	dn	2.23	74/1841 (4.0%)	2.60	172/2500 (6.9%)
1	do	2.27	68/1841 (3.7%)	2.58	144/2500 (5.8%)
1	dp	2.21	55/1841 (3.0%)	2.58	154/2500 (6.2%)
1	dq	2.21	60/1841 (3.3%)	2.55	141/2500 (5.6%)
1	dr	2.13	52/1841 (2.8%)	2.60	162/2500 (6.5%)
1	ds	2.17	52/1841 (2.8%)	2.64	174/2500 (7.0%)
1	dt	2.20	59/1841 (3.2%)	2.54	118/2500 (4.7%)
1	du	2.17	46/1841 (2.5%)	2.53	127/2500 (5.1%)
1	dv	2.27	72/1841 (3.9%)	2.57	141/2500 (5.6%)
1	dw	2.27	70/1841 (3.8%)	2.68	165/2500 (6.6%)
1	dx	2.28	73/1841 (4.0%)	2.63	170/2500 (6.8%)
1	dy	2.23	63/1841 (3.4%)	2.60	150/2500 (6.0%)
1	dz	2.19	56/1841 (3.0%)	2.53	140/2500 (5.6%)
1	e	2.24	69/1841 (3.7%)	2.55	150/2500 (6.0%)
1	e0	2.18	50/1841 (2.7%)	2.60	161/2500 (6.4%)
1	e1	2.21	57/1841 (3.1%)	2.63	161/2500 (6.4%)
1	e2	2.19	55/1841 (3.0%)	2.60	152/2500 (6.1%)
1	e3	2.13	54/1841 (2.9%)	2.60	146/2500 (5.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	e4	2.16	59/1841 (3.2%)	2.57	139/2500 (5.6%)
1	e5	2.22	59/1841 (3.2%)	2.63	152/2500 (6.1%)
1	e6	2.16	50/1841 (2.7%)	2.57	147/2500 (5.9%)
1	e7	2.19	51/1841 (2.8%)	2.57	145/2500 (5.8%)
1	e8	2.19	54/1841 (2.9%)	2.64	168/2500 (6.7%)
1	e9	2.22	52/1841 (2.8%)	2.54	127/2500 (5.1%)
1	eA	2.22	61/1841 (3.3%)	2.54	134/2500 (5.4%)
1	eB	2.18	61/1841 (3.3%)	2.62	151/2500 (6.0%)
1	eC	2.23	67/1841 (3.6%)	2.59	145/2500 (5.8%)
1	eD	2.24	63/1841 (3.4%)	2.54	138/2500 (5.5%)
1	eE	2.22	61/1841 (3.3%)	2.60	151/2500 (6.0%)
1	eF	2.17	46/1841 (2.5%)	2.52	131/2500 (5.2%)
1	eG	2.17	57/1841 (3.1%)	2.50	131/2500 (5.2%)
1	eH	2.18	57/1841 (3.1%)	2.62	161/2500 (6.4%)
1	eI	2.23	64/1841 (3.5%)	2.59	160/2500 (6.4%)
1	eJ	2.21	56/1841 (3.0%)	2.56	151/2500 (6.0%)
1	eK	2.24	66/1841 (3.6%)	2.61	151/2500 (6.0%)
1	eL	2.30	73/1841 (4.0%)	2.61	153/2500 (6.1%)
1	eM	2.29	74/1841 (4.0%)	2.67	155/2500 (6.2%)
1	eN	2.17	50/1841 (2.7%)	2.57	132/2500 (5.3%)
1	eO	2.21	64/1841 (3.5%)	2.55	138/2500 (5.5%)
1	eP	2.18	61/1841 (3.3%)	2.60	166/2500 (6.6%)
1	eQ	2.13	46/1841 (2.5%)	2.55	141/2500 (5.6%)
1	eR	2.24	56/1841 (3.0%)	2.67	154/2500 (6.2%)
1	eS	2.16	49/1841 (2.7%)	2.70	172/2500 (6.9%)
1	eT	2.26	70/1841 (3.8%)	2.57	139/2500 (5.6%)
1	eU	2.16	60/1841 (3.3%)	2.64	166/2500 (6.6%)
1	eV	2.20	55/1841 (3.0%)	2.61	137/2500 (5.5%)
1	eW	2.18	57/1841 (3.1%)	2.56	139/2500 (5.6%)
1	eX	2.20	56/1841 (3.0%)	2.61	158/2500 (6.3%)
1	eY	2.21	65/1841 (3.5%)	2.52	134/2500 (5.4%)
1	eZ	2.24	68/1841 (3.7%)	2.65	165/2500 (6.6%)
1	ea	2.18	63/1841 (3.4%)	2.64	159/2500 (6.4%)
1	eb	2.17	64/1841 (3.5%)	2.62	155/2500 (6.2%)
1	ec	2.18	54/1841 (2.9%)	2.66	150/2500 (6.0%)
1	ed	2.21	56/1841 (3.0%)	2.61	147/2500 (5.9%)
1	ee	2.13	42/1841 (2.3%)	2.61	144/2500 (5.8%)
1	ef	2.26	70/1841 (3.8%)	2.68	168/2500 (6.7%)
1	eg	2.17	53/1841 (2.9%)	2.56	144/2500 (5.8%)
1	eh	2.20	59/1841 (3.2%)	2.54	149/2500 (6.0%)
1	ei	2.14	52/1841 (2.8%)	2.63	151/2500 (6.0%)
1	ej	2.20	61/1841 (3.3%)	2.59	154/2500 (6.2%)
1	ek	2.16	58/1841 (3.2%)	2.61	141/2500 (5.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	el	2.24	67/1841 (3.6%)	2.51	133/2500 (5.3%)
1	em	2.27	67/1841 (3.6%)	2.62	151/2500 (6.0%)
1	en	2.18	67/1841 (3.6%)	2.58	149/2500 (6.0%)
1	eo	2.24	66/1841 (3.6%)	2.60	164/2500 (6.6%)
1	ep	2.21	56/1841 (3.0%)	2.63	152/2500 (6.1%)
1	eq	2.16	58/1841 (3.2%)	2.60	144/2500 (5.8%)
1	er	2.19	61/1841 (3.3%)	2.69	173/2500 (6.9%)
1	es	2.28	78/1841 (4.2%)	2.65	164/2500 (6.6%)
1	et	2.19	55/1841 (3.0%)	2.58	147/2500 (5.9%)
1	eu	2.24	66/1841 (3.6%)	2.52	145/2500 (5.8%)
1	ev	2.26	64/1841 (3.5%)	2.60	152/2500 (6.1%)
1	ew	2.16	54/1841 (2.9%)	2.55	147/2500 (5.9%)
1	ex	2.16	50/1841 (2.7%)	2.55	134/2500 (5.4%)
1	ey	2.18	55/1841 (3.0%)	2.59	148/2500 (5.9%)
1	ez	2.18	47/1841 (2.6%)	2.53	134/2500 (5.4%)
1	f	2.16	51/1841 (2.8%)	2.60	148/2500 (5.9%)
1	f0	2.20	60/1841 (3.3%)	2.54	131/2500 (5.2%)
1	f1	2.21	59/1841 (3.2%)	2.60	158/2500 (6.3%)
1	f2	2.25	64/1841 (3.5%)	2.57	150/2500 (6.0%)
1	f3	2.24	58/1841 (3.2%)	2.59	142/2500 (5.7%)
1	f4	2.26	61/1841 (3.3%)	2.57	137/2500 (5.5%)
1	f5	2.21	65/1841 (3.5%)	2.60	148/2500 (5.9%)
1	f6	2.27	63/1841 (3.4%)	2.57	158/2500 (6.3%)
1	f7	2.28	75/1841 (4.1%)	2.65	172/2500 (6.9%)
1	f8	2.20	64/1841 (3.5%)	2.53	142/2500 (5.7%)
1	f9	2.24	58/1841 (3.2%)	2.63	152/2500 (6.1%)
1	fA	2.23	62/1841 (3.4%)	2.62	161/2500 (6.4%)
1	fB	2.21	51/1841 (2.8%)	2.61	144/2500 (5.8%)
1	fC	2.23	61/1841 (3.3%)	2.66	159/2500 (6.4%)
1	fD	2.31	75/1841 (4.1%)	2.53	122/2500 (4.9%)
1	fE	2.26	64/1841 (3.5%)	2.58	143/2500 (5.7%)
1	fF	2.18	45/1841 (2.4%)	2.59	152/2500 (6.1%)
1	fG	2.22	60/1841 (3.3%)	2.52	145/2500 (5.8%)
1	fH	2.14	51/1841 (2.8%)	2.51	116/2500 (4.6%)
1	fI	2.25	70/1841 (3.8%)	2.56	150/2500 (6.0%)
1	fJ	2.17	52/1841 (2.8%)	2.60	148/2500 (5.9%)
1	fK	2.16	55/1841 (3.0%)	2.56	143/2500 (5.7%)
1	fL	2.23	56/1841 (3.0%)	2.58	142/2500 (5.7%)
1	fM	2.18	61/1841 (3.3%)	2.53	148/2500 (5.9%)
1	fN	2.26	65/1841 (3.5%)	2.54	131/2500 (5.2%)
1	fO	2.19	54/1841 (2.9%)	2.61	156/2500 (6.2%)
1	fP	2.15	54/1841 (2.9%)	2.61	145/2500 (5.8%)
1	fQ	2.13	55/1841 (3.0%)	2.63	165/2500 (6.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	fR	2.25	64/1841 (3.5%)	2.61	160/2500 (6.4%)
1	fS	2.19	65/1841 (3.5%)	2.56	142/2500 (5.7%)
1	fT	2.22	61/1841 (3.3%)	2.58	149/2500 (6.0%)
1	fU	2.23	57/1841 (3.1%)	2.52	134/2500 (5.4%)
1	fV	2.18	53/1841 (2.9%)	2.61	157/2500 (6.3%)
1	fW	2.21	63/1841 (3.4%)	2.63	163/2500 (6.5%)
1	fX	2.14	45/1841 (2.4%)	2.48	123/2500 (4.9%)
1	fY	2.20	61/1841 (3.3%)	2.54	141/2500 (5.6%)
1	fZ	2.30	69/1841 (3.7%)	2.58	133/2500 (5.3%)
1	fa	2.18	56/1841 (3.0%)	2.58	147/2500 (5.9%)
1	fb	2.14	47/1841 (2.6%)	2.51	125/2500 (5.0%)
1	fc	2.32	65/1841 (3.5%)	2.65	169/2500 (6.8%)
1	fd	2.23	63/1841 (3.4%)	2.53	132/2500 (5.3%)
1	fe	2.21	51/1841 (2.8%)	2.61	148/2500 (5.9%)
1	ff	2.27	60/1841 (3.3%)	2.55	151/2500 (6.0%)
1	fg	2.14	51/1841 (2.8%)	2.53	137/2500 (5.5%)
1	fh	2.23	56/1841 (3.0%)	2.51	137/2500 (5.5%)
1	fi	2.16	57/1841 (3.1%)	2.65	163/2500 (6.5%)
1	fj	2.20	60/1841 (3.3%)	2.60	140/2500 (5.6%)
1	fk	2.17	49/1841 (2.7%)	2.52	141/2500 (5.6%)
1	fl	2.24	63/1841 (3.4%)	2.63	168/2500 (6.7%)
1	fm	2.24	59/1841 (3.2%)	2.70	168/2500 (6.7%)
1	fn	2.24	65/1841 (3.5%)	2.66	167/2500 (6.7%)
1	fo	2.21	64/1841 (3.5%)	2.55	145/2500 (5.8%)
1	fp	2.25	70/1841 (3.8%)	2.68	166/2500 (6.6%)
1	fq	2.15	57/1841 (3.1%)	2.66	167/2500 (6.7%)
1	fr	2.21	61/1841 (3.3%)	2.55	150/2500 (6.0%)
1	fs	2.21	61/1841 (3.3%)	2.59	166/2500 (6.6%)
1	ft	2.16	50/1841 (2.7%)	2.61	152/2500 (6.1%)
1	fu	2.19	63/1841 (3.4%)	2.60	143/2500 (5.7%)
1	fv	2.20	56/1841 (3.0%)	2.52	135/2500 (5.4%)
1	fw	2.18	58/1841 (3.2%)	2.58	147/2500 (5.9%)
1	fx	2.12	42/1841 (2.3%)	2.43	118/2500 (4.7%)
1	fy	2.19	67/1841 (3.6%)	2.60	134/2500 (5.4%)
1	fz	2.18	61/1841 (3.3%)	2.62	144/2500 (5.8%)
1	g	2.24	62/1841 (3.4%)	2.63	180/2500 (7.2%)
1	g0	2.23	65/1841 (3.5%)	2.61	165/2500 (6.6%)
1	g1	2.22	63/1841 (3.4%)	2.62	161/2500 (6.4%)
1	g2	2.21	62/1841 (3.4%)	2.65	157/2500 (6.3%)
1	g3	2.23	64/1841 (3.5%)	2.58	149/2500 (6.0%)
1	g4	2.21	55/1841 (3.0%)	2.55	153/2500 (6.1%)
1	g5	2.22	63/1841 (3.4%)	2.59	160/2500 (6.4%)
1	g6	2.19	46/1841 (2.5%)	2.56	164/2500 (6.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	g7	2.32	71/1841 (3.9%)	2.59	149/2500 (6.0%)
1	g8	2.22	56/1841 (3.0%)	2.56	149/2500 (6.0%)
1	g9	2.19	59/1841 (3.2%)	2.60	168/2500 (6.7%)
1	gA	2.20	58/1841 (3.2%)	2.64	170/2500 (6.8%)
1	gB	2.19	68/1841 (3.7%)	2.64	171/2500 (6.8%)
1	gC	2.25	52/1841 (2.8%)	2.68	156/2500 (6.2%)
1	gD	2.23	67/1841 (3.6%)	2.64	146/2500 (5.8%)
1	gE	2.14	42/1841 (2.3%)	2.59	167/2500 (6.7%)
1	gF	2.25	70/1841 (3.8%)	2.66	159/2500 (6.4%)
1	gG	2.15	57/1841 (3.1%)	2.65	167/2500 (6.7%)
1	gH	2.24	70/1841 (3.8%)	2.58	142/2500 (5.7%)
1	gI	2.17	54/1841 (2.9%)	2.60	157/2500 (6.3%)
1	gJ	2.25	64/1841 (3.5%)	2.54	137/2500 (5.5%)
1	gK	2.23	61/1841 (3.3%)	2.53	133/2500 (5.3%)
1	gL	2.21	60/1841 (3.3%)	2.58	145/2500 (5.8%)
1	gM	2.17	51/1841 (2.8%)	2.58	158/2500 (6.3%)
1	gN	2.21	55/1841 (3.0%)	2.54	140/2500 (5.6%)
1	gO	2.24	69/1841 (3.7%)	2.69	179/2500 (7.2%)
1	gP	2.18	49/1841 (2.7%)	2.57	138/2500 (5.5%)
1	gQ	2.16	51/1841 (2.8%)	2.60	149/2500 (6.0%)
1	gR	2.12	49/1841 (2.7%)	2.58	150/2500 (6.0%)
1	gS	2.17	63/1841 (3.4%)	2.47	140/2500 (5.6%)
1	gT	2.19	59/1841 (3.2%)	2.57	132/2500 (5.3%)
1	gU	2.19	55/1841 (3.0%)	2.64	158/2500 (6.3%)
1	gV	2.24	58/1841 (3.2%)	2.60	142/2500 (5.7%)
1	gW	2.13	50/1841 (2.7%)	2.61	161/2500 (6.4%)
1	gX	2.22	74/1841 (4.0%)	2.59	134/2500 (5.4%)
1	gY	2.21	53/1841 (2.9%)	2.47	129/2500 (5.2%)
1	gZ	2.18	48/1841 (2.6%)	2.55	145/2500 (5.8%)
1	ga	2.15	53/1841 (2.9%)	2.65	156/2500 (6.2%)
1	gb	2.21	66/1841 (3.6%)	2.61	146/2500 (5.8%)
1	gc	2.24	64/1841 (3.5%)	2.52	150/2500 (6.0%)
1	gd	2.18	57/1841 (3.1%)	2.60	167/2500 (6.7%)
1	ge	2.15	49/1841 (2.7%)	2.55	136/2500 (5.4%)
1	gf	2.17	59/1841 (3.2%)	2.58	147/2500 (5.9%)
1	gg	2.25	71/1841 (3.9%)	2.60	156/2500 (6.2%)
1	gh	2.23	58/1841 (3.2%)	2.57	138/2500 (5.5%)
1	gi	2.19	61/1841 (3.3%)	2.70	178/2500 (7.1%)
1	gj	2.24	65/1841 (3.5%)	2.64	152/2500 (6.1%)
1	gk	2.17	55/1841 (3.0%)	2.58	147/2500 (5.9%)
1	gl	2.22	59/1841 (3.2%)	2.58	141/2500 (5.6%)
1	gm	2.21	62/1841 (3.4%)	2.55	155/2500 (6.2%)
1	gn	2.17	49/1841 (2.7%)	2.64	163/2500 (6.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	go	2.16	47/1841 (2.6%)	2.62	148/2500 (5.9%)
1	gp	2.26	74/1841 (4.0%)	2.60	170/2500 (6.8%)
1	gq	2.14	52/1841 (2.8%)	2.62	150/2500 (6.0%)
1	gr	2.14	55/1841 (3.0%)	2.62	169/2500 (6.8%)
1	gs	2.21	56/1841 (3.0%)	2.61	152/2500 (6.1%)
1	gt	2.27	64/1841 (3.5%)	2.65	176/2500 (7.0%)
1	gu	2.24	65/1841 (3.5%)	2.55	141/2500 (5.6%)
1	gv	2.18	63/1841 (3.4%)	2.48	139/2500 (5.6%)
1	gw	2.18	57/1841 (3.1%)	2.56	151/2500 (6.0%)
1	gx	2.17	46/1841 (2.5%)	2.56	144/2500 (5.8%)
1	gy	2.22	62/1841 (3.4%)	2.61	166/2500 (6.6%)
1	gz	2.24	62/1841 (3.4%)	2.62	151/2500 (6.0%)
1	h	2.19	55/1841 (3.0%)	2.60	161/2500 (6.4%)
1	h0	2.22	58/1841 (3.2%)	2.63	163/2500 (6.5%)
1	h1	2.18	55/1841 (3.0%)	2.62	154/2500 (6.2%)
1	h2	2.18	55/1841 (3.0%)	2.68	174/2500 (7.0%)
1	h3	2.18	65/1841 (3.5%)	2.62	164/2500 (6.6%)
1	h4	2.20	59/1841 (3.2%)	2.57	152/2500 (6.1%)
1	h5	2.25	63/1841 (3.4%)	2.61	155/2500 (6.2%)
1	h6	2.20	46/1841 (2.5%)	2.59	150/2500 (6.0%)
1	h7	2.20	52/1841 (2.8%)	2.52	133/2500 (5.3%)
1	h8	2.16	57/1841 (3.1%)	2.55	134/2500 (5.4%)
1	h9	2.28	61/1841 (3.3%)	2.58	149/2500 (6.0%)
1	hA	2.12	44/1841 (2.4%)	2.64	165/2500 (6.6%)
1	hB	2.22	51/1841 (2.8%)	2.56	128/2500 (5.1%)
1	hC	2.22	61/1841 (3.3%)	2.59	160/2500 (6.4%)
1	hD	2.28	68/1841 (3.7%)	2.61	149/2500 (6.0%)
1	hE	2.16	53/1841 (2.9%)	2.48	132/2500 (5.3%)
1	hF	2.21	53/1841 (2.9%)	2.64	157/2500 (6.3%)
1	hG	2.26	72/1841 (3.9%)	2.63	168/2500 (6.7%)
1	hH	2.15	45/1841 (2.4%)	2.58	139/2500 (5.6%)
1	hI	2.23	58/1841 (3.2%)	2.57	138/2500 (5.5%)
1	hJ	2.19	62/1841 (3.4%)	2.55	135/2500 (5.4%)
1	hK	2.24	61/1841 (3.3%)	2.52	141/2500 (5.6%)
1	hL	2.20	64/1841 (3.5%)	2.48	123/2500 (4.9%)
1	hM	2.20	53/1841 (2.9%)	2.57	147/2500 (5.9%)
1	hN	2.20	54/1841 (2.9%)	2.58	155/2500 (6.2%)
1	hO	2.16	48/1841 (2.6%)	2.56	145/2500 (5.8%)
1	hP	2.22	66/1841 (3.6%)	2.58	149/2500 (6.0%)
1	hQ	2.23	70/1841 (3.8%)	2.59	159/2500 (6.4%)
1	hR	2.26	71/1841 (3.9%)	2.55	160/2500 (6.4%)
1	hS	2.20	64/1841 (3.5%)	2.55	139/2500 (5.6%)
1	hT	2.21	64/1841 (3.5%)	2.53	138/2500 (5.5%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	hU	2.20	56/1841 (3.0%)	2.53	135/2500 (5.4%)
1	hV	2.12	54/1841 (2.9%)	2.52	143/2500 (5.7%)
1	hW	2.20	54/1841 (2.9%)	2.59	145/2500 (5.8%)
1	hX	2.16	52/1841 (2.8%)	2.57	135/2500 (5.4%)
1	hY	2.18	60/1841 (3.3%)	2.54	138/2500 (5.5%)
1	hZ	2.25	76/1841 (4.1%)	2.56	138/2500 (5.5%)
1	ha	2.24	62/1841 (3.4%)	2.64	158/2500 (6.3%)
1	hb	2.19	58/1841 (3.2%)	2.53	128/2500 (5.1%)
1	hc	2.19	56/1841 (3.0%)	2.64	153/2500 (6.1%)
1	hd	2.15	48/1841 (2.6%)	2.53	121/2500 (4.8%)
1	he	2.19	57/1841 (3.1%)	2.56	144/2500 (5.8%)
1	hf	2.25	66/1841 (3.6%)	2.59	167/2500 (6.7%)
1	hg	2.21	54/1841 (2.9%)	2.63	170/2500 (6.8%)
1	hh	2.29	71/1841 (3.9%)	2.62	161/2500 (6.4%)
1	hi	2.25	63/1841 (3.4%)	2.56	145/2500 (5.8%)
1	hj	2.18	56/1841 (3.0%)	2.62	153/2500 (6.1%)
1	hk	2.22	60/1841 (3.3%)	2.57	142/2500 (5.7%)
1	hl	2.26	63/1841 (3.4%)	2.61	162/2500 (6.5%)
1	hm	2.22	58/1841 (3.2%)	2.61	150/2500 (6.0%)
1	hn	2.13	57/1841 (3.1%)	2.61	164/2500 (6.6%)
1	ho	2.19	51/1841 (2.8%)	2.66	160/2500 (6.4%)
1	hp	2.17	49/1841 (2.7%)	2.64	167/2500 (6.7%)
1	hq	2.21	62/1841 (3.4%)	2.53	131/2500 (5.2%)
1	hr	2.23	49/1841 (2.7%)	2.64	173/2500 (6.9%)
1	hs	2.26	64/1841 (3.5%)	2.56	138/2500 (5.5%)
1	ht	2.15	59/1841 (3.2%)	2.54	159/2500 (6.4%)
1	hu	2.21	61/1841 (3.3%)	2.57	143/2500 (5.7%)
1	hv	2.20	55/1841 (3.0%)	2.57	147/2500 (5.9%)
1	hw	2.15	48/1841 (2.6%)	2.61	155/2500 (6.2%)
1	hx	2.18	61/1841 (3.3%)	2.53	142/2500 (5.7%)
1	hy	2.19	57/1841 (3.1%)	2.67	171/2500 (6.8%)
1	hz	2.15	48/1841 (2.6%)	2.67	162/2500 (6.5%)
1	i	2.24	62/1841 (3.4%)	2.54	152/2500 (6.1%)
1	i0	2.24	62/1841 (3.4%)	2.66	162/2500 (6.5%)
1	i1	2.21	61/1841 (3.3%)	2.66	163/2500 (6.5%)
1	i2	2.21	47/1841 (2.6%)	2.57	147/2500 (5.9%)
1	i3	2.22	68/1841 (3.7%)	2.53	151/2500 (6.0%)
1	i4	2.23	57/1841 (3.1%)	2.54	132/2500 (5.3%)
1	i5	2.24	61/1841 (3.3%)	2.57	146/2500 (5.8%)
1	i6	2.20	57/1841 (3.1%)	2.64	169/2500 (6.8%)
1	i7	2.17	58/1841 (3.2%)	2.60	152/2500 (6.1%)
1	i8	2.24	75/1841 (4.1%)	2.59	156/2500 (6.2%)
1	i9	2.24	65/1841 (3.5%)	2.57	152/2500 (6.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	iA	2.18	49/1841 (2.7%)	2.68	156/2500 (6.2%)
1	iB	2.13	51/1841 (2.8%)	2.57	144/2500 (5.8%)
1	iC	2.12	45/1841 (2.4%)	2.58	142/2500 (5.7%)
1	iD	2.15	52/1841 (2.8%)	2.57	154/2500 (6.2%)
1	iE	2.20	64/1841 (3.5%)	2.62	153/2500 (6.1%)
1	iF	2.27	71/1841 (3.9%)	2.56	149/2500 (6.0%)
1	iG	2.21	67/1841 (3.6%)	2.57	152/2500 (6.1%)
1	iH	2.26	63/1841 (3.4%)	2.60	156/2500 (6.2%)
1	iI	2.21	57/1841 (3.1%)	2.54	140/2500 (5.6%)
1	iJ	2.21	55/1841 (3.0%)	2.54	138/2500 (5.5%)
1	iK	2.20	63/1841 (3.4%)	2.56	127/2500 (5.1%)
1	iL	2.26	68/1841 (3.7%)	2.62	155/2500 (6.2%)
1	iM	2.26	69/1841 (3.7%)	2.62	146/2500 (5.8%)
1	iN	2.19	56/1841 (3.0%)	2.68	181/2500 (7.2%)
1	iO	2.20	63/1841 (3.4%)	2.50	132/2500 (5.3%)
1	iP	2.28	68/1841 (3.7%)	2.60	172/2500 (6.9%)
1	iQ	2.17	55/1841 (3.0%)	2.61	165/2500 (6.6%)
1	iR	2.19	60/1841 (3.3%)	2.63	168/2500 (6.7%)
1	iS	2.27	68/1841 (3.7%)	2.56	145/2500 (5.8%)
1	iT	2.23	65/1841 (3.5%)	2.62	152/2500 (6.1%)
1	iU	2.14	49/1841 (2.7%)	2.64	160/2500 (6.4%)
1	iV	2.25	65/1841 (3.5%)	2.56	140/2500 (5.6%)
1	iW	2.19	56/1841 (3.0%)	2.65	163/2500 (6.5%)
1	iX	2.25	70/1841 (3.8%)	2.61	161/2500 (6.4%)
1	iY	2.16	59/1841 (3.2%)	2.55	145/2500 (5.8%)
1	iZ	2.18	47/1841 (2.6%)	2.47	130/2500 (5.2%)
1	ia	2.19	63/1841 (3.4%)	2.62	167/2500 (6.7%)
1	ib	2.15	56/1841 (3.0%)	2.68	169/2500 (6.8%)
1	ic	2.20	61/1841 (3.3%)	2.58	148/2500 (5.9%)
1	id	2.14	52/1841 (2.8%)	2.52	125/2500 (5.0%)
1	ie	2.21	55/1841 (3.0%)	2.56	139/2500 (5.6%)
1	if	2.19	55/1841 (3.0%)	2.68	155/2500 (6.2%)
1	ig	2.23	61/1841 (3.3%)	2.68	150/2500 (6.0%)
1	ih	2.22	59/1841 (3.2%)	2.56	158/2500 (6.3%)
1	ii	2.25	77/1841 (4.2%)	2.57	141/2500 (5.6%)
1	ij	2.24	61/1841 (3.3%)	2.59	156/2500 (6.2%)
1	ik	2.20	50/1841 (2.7%)	2.53	142/2500 (5.7%)
1	il	2.17	63/1841 (3.4%)	2.61	160/2500 (6.4%)
1	im	2.21	60/1841 (3.3%)	2.60	138/2500 (5.5%)
1	in	2.21	66/1841 (3.6%)	2.55	153/2500 (6.1%)
1	io	2.30	64/1841 (3.5%)	2.64	152/2500 (6.1%)
1	ip	2.21	68/1841 (3.7%)	2.55	138/2500 (5.5%)
1	iq	2.21	46/1841 (2.5%)	2.56	144/2500 (5.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	ir	2.17	59/1841 (3.2%)	2.56	132/2500 (5.3%)
1	is	2.12	51/1841 (2.8%)	2.53	127/2500 (5.1%)
1	it	2.27	64/1841 (3.5%)	2.62	178/2500 (7.1%)
1	iu	2.18	49/1841 (2.7%)	2.65	164/2500 (6.6%)
1	iv	2.20	64/1841 (3.5%)	2.55	138/2500 (5.5%)
1	iw	2.16	57/1841 (3.1%)	2.54	140/2500 (5.6%)
1	ix	2.22	66/1841 (3.6%)	2.50	145/2500 (5.8%)
1	iy	2.18	64/1841 (3.5%)	2.59	145/2500 (5.8%)
1	iz	2.22	64/1841 (3.5%)	2.61	159/2500 (6.4%)
1	j	2.19	52/1841 (2.8%)	2.57	153/2500 (6.1%)
1	j0	2.24	71/1841 (3.9%)	2.61	168/2500 (6.7%)
1	j1	2.25	70/1841 (3.8%)	2.57	144/2500 (5.8%)
1	j2	2.23	66/1841 (3.6%)	2.61	154/2500 (6.2%)
1	j3	2.23	66/1841 (3.6%)	2.56	139/2500 (5.6%)
1	j4	2.20	53/1841 (2.9%)	2.62	151/2500 (6.0%)
1	j5	2.19	53/1841 (2.9%)	2.59	141/2500 (5.6%)
1	j6	2.19	57/1841 (3.1%)	2.60	148/2500 (5.9%)
1	j7	2.21	57/1841 (3.1%)	2.57	142/2500 (5.7%)
1	j8	2.30	65/1841 (3.5%)	2.59	152/2500 (6.1%)
1	j9	2.18	56/1841 (3.0%)	2.63	161/2500 (6.4%)
1	jA	2.20	52/1841 (2.8%)	2.56	138/2500 (5.5%)
1	jB	2.28	60/1841 (3.3%)	2.63	180/2500 (7.2%)
1	jC	2.24	64/1841 (3.5%)	2.62	165/2500 (6.6%)
1	jD	2.21	57/1841 (3.1%)	2.65	162/2500 (6.5%)
1	jE	2.21	60/1841 (3.3%)	2.61	152/2500 (6.1%)
1	jF	2.30	65/1841 (3.5%)	2.56	154/2500 (6.2%)
1	jG	2.16	52/1841 (2.8%)	2.51	118/2500 (4.7%)
1	jH	2.23	60/1841 (3.3%)	2.54	131/2500 (5.2%)
1	jI	2.16	51/1841 (2.8%)	2.62	148/2500 (5.9%)
1	jJ	2.21	54/1841 (2.9%)	2.58	142/2500 (5.7%)
1	jK	2.16	55/1841 (3.0%)	2.58	157/2500 (6.3%)
1	jL	2.20	53/1841 (2.9%)	2.60	145/2500 (5.8%)
1	jM	2.22	66/1841 (3.6%)	2.64	168/2500 (6.7%)
1	jN	2.20	58/1841 (3.2%)	2.61	167/2500 (6.7%)
1	jO	2.22	70/1841 (3.8%)	2.58	152/2500 (6.1%)
1	jP	2.15	53/1841 (2.9%)	2.57	145/2500 (5.8%)
1	jQ	2.21	68/1841 (3.7%)	2.57	142/2500 (5.7%)
1	jR	2.25	67/1841 (3.6%)	2.62	166/2500 (6.6%)
1	jS	2.14	53/1841 (2.9%)	2.59	144/2500 (5.8%)
1	jT	2.16	57/1841 (3.1%)	2.65	175/2500 (7.0%)
1	jU	2.16	53/1841 (2.9%)	2.64	173/2500 (6.9%)
1	jV	2.20	65/1841 (3.5%)	2.58	141/2500 (5.6%)
1	jW	2.21	61/1841 (3.3%)	2.58	160/2500 (6.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	jX	2.16	52/1841 (2.8%)	2.64	163/2500 (6.5%)
1	jY	2.18	58/1841 (3.2%)	2.57	133/2500 (5.3%)
1	jZ	2.26	54/1841 (2.9%)	2.59	156/2500 (6.2%)
1	ja	2.23	64/1841 (3.5%)	2.51	127/2500 (5.1%)
1	jb	2.30	72/1841 (3.9%)	2.57	161/2500 (6.4%)
1	jc	2.18	60/1841 (3.3%)	2.62	164/2500 (6.6%)
1	jd	2.20	58/1841 (3.2%)	2.57	144/2500 (5.8%)
1	je	2.22	62/1841 (3.4%)	2.66	169/2500 (6.8%)
1	jf	2.22	63/1841 (3.4%)	2.56	129/2500 (5.2%)
1	jg	2.25	66/1841 (3.6%)	2.59	145/2500 (5.8%)
1	jh	2.22	63/1841 (3.4%)	2.56	139/2500 (5.6%)
1	ji	2.25	60/1841 (3.3%)	2.64	157/2500 (6.3%)
1	jj	2.22	59/1841 (3.2%)	2.57	142/2500 (5.7%)
1	jk	2.17	52/1841 (2.8%)	2.68	162/2500 (6.5%)
1	jl	2.20	67/1841 (3.6%)	2.59	150/2500 (6.0%)
1	jm	2.25	66/1841 (3.6%)	2.60	161/2500 (6.4%)
1	jn	2.18	49/1841 (2.7%)	2.59	149/2500 (6.0%)
1	jo	2.17	56/1841 (3.0%)	2.52	144/2500 (5.8%)
1	jp	2.15	53/1841 (2.9%)	2.58	168/2500 (6.7%)
1	jq	2.16	51/1841 (2.8%)	2.59	150/2500 (6.0%)
1	jr	2.20	50/1841 (2.7%)	2.55	149/2500 (6.0%)
1	js	2.28	72/1841 (3.9%)	2.64	140/2500 (5.6%)
1	jt	2.22	59/1841 (3.2%)	2.64	170/2500 (6.8%)
1	ju	2.15	51/1841 (2.8%)	2.55	143/2500 (5.7%)
1	jv	2.21	61/1841 (3.3%)	2.62	161/2500 (6.4%)
1	jw	2.22	56/1841 (3.0%)	2.56	147/2500 (5.9%)
1	jx	2.25	71/1841 (3.9%)	2.58	138/2500 (5.5%)
1	jy	2.21	58/1841 (3.2%)	2.61	162/2500 (6.5%)
1	jz	2.21	62/1841 (3.4%)	2.57	153/2500 (6.1%)
1	k	2.25	72/1841 (3.9%)	2.63	162/2500 (6.5%)
1	k0	2.16	66/1841 (3.6%)	2.62	162/2500 (6.5%)
1	k1	2.14	48/1841 (2.6%)	2.59	143/2500 (5.7%)
1	k2	2.16	50/1841 (2.7%)	2.59	145/2500 (5.8%)
1	k3	2.28	72/1841 (3.9%)	2.52	127/2500 (5.1%)
1	k4	2.21	73/1841 (4.0%)	2.61	176/2500 (7.0%)
1	k5	2.19	61/1841 (3.3%)	2.53	125/2500 (5.0%)
1	k6	2.13	50/1841 (2.7%)	2.63	162/2500 (6.5%)
1	k7	2.24	71/1841 (3.9%)	2.67	153/2500 (6.1%)
1	k8	2.20	49/1841 (2.7%)	2.55	139/2500 (5.6%)
1	k9	2.29	73/1841 (4.0%)	2.59	162/2500 (6.5%)
1	kA	2.21	61/1841 (3.3%)	2.55	152/2500 (6.1%)
1	kB	2.19	53/1841 (2.9%)	2.47	118/2500 (4.7%)
1	kC	2.24	70/1841 (3.8%)	2.54	152/2500 (6.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	kD	2.17	47/1841 (2.6%)	2.62	163/2500 (6.5%)
1	kE	2.20	61/1841 (3.3%)	2.57	147/2500 (5.9%)
1	kF	2.23	73/1841 (4.0%)	2.64	171/2500 (6.8%)
1	kG	2.21	48/1841 (2.6%)	2.57	137/2500 (5.5%)
1	kH	2.27	61/1841 (3.3%)	2.59	152/2500 (6.1%)
1	kI	2.17	56/1841 (3.0%)	2.65	159/2500 (6.4%)
1	kJ	2.22	56/1841 (3.0%)	2.60	139/2500 (5.6%)
1	kK	2.21	64/1841 (3.5%)	2.52	122/2500 (4.9%)
1	kL	2.27	69/1841 (3.7%)	2.58	138/2500 (5.5%)
1	kM	2.22	61/1841 (3.3%)	2.61	151/2500 (6.0%)
1	kN	2.18	60/1841 (3.3%)	2.60	157/2500 (6.3%)
1	kO	2.14	48/1841 (2.6%)	2.59	149/2500 (6.0%)
1	kP	2.19	51/1841 (2.8%)	2.58	153/2500 (6.1%)
1	kQ	2.22	58/1841 (3.2%)	2.53	150/2500 (6.0%)
1	kR	2.23	69/1841 (3.7%)	2.58	169/2500 (6.8%)
1	kS	2.17	48/1841 (2.6%)	2.56	136/2500 (5.4%)
1	kT	2.12	45/1841 (2.4%)	2.67	168/2500 (6.7%)
1	kU	2.22	64/1841 (3.5%)	2.54	131/2500 (5.2%)
1	kV	2.22	61/1841 (3.3%)	2.60	151/2500 (6.0%)
1	kW	2.23	64/1841 (3.5%)	2.57	152/2500 (6.1%)
1	kX	2.21	58/1841 (3.2%)	2.58	157/2500 (6.3%)
1	kY	2.19	59/1841 (3.2%)	2.58	154/2500 (6.2%)
1	kZ	2.16	46/1841 (2.5%)	2.57	148/2500 (5.9%)
1	ka	2.23	63/1841 (3.4%)	2.57	143/2500 (5.7%)
1	kb	2.21	62/1841 (3.4%)	2.62	144/2500 (5.8%)
1	kc	2.15	54/1841 (2.9%)	2.48	133/2500 (5.3%)
1	kd	2.19	54/1841 (2.9%)	2.61	150/2500 (6.0%)
1	ke	2.14	51/1841 (2.8%)	2.56	139/2500 (5.6%)
1	kf	2.18	59/1841 (3.2%)	2.64	150/2500 (6.0%)
1	kg	2.24	61/1841 (3.3%)	2.57	157/2500 (6.3%)
1	kh	2.20	60/1841 (3.3%)	2.57	132/2500 (5.3%)
1	ki	2.16	55/1841 (3.0%)	2.61	160/2500 (6.4%)
1	kj	2.20	60/1841 (3.3%)	2.54	135/2500 (5.4%)
1	kk	2.20	53/1841 (2.9%)	2.55	149/2500 (6.0%)
1	kl	2.19	53/1841 (2.9%)	2.60	144/2500 (5.8%)
1	km	2.26	56/1841 (3.0%)	2.59	146/2500 (5.8%)
1	kn	2.17	45/1841 (2.4%)	2.62	157/2500 (6.3%)
1	ko	2.19	65/1841 (3.5%)	2.58	143/2500 (5.7%)
1	kp	2.19	51/1841 (2.8%)	2.52	131/2500 (5.2%)
1	kq	2.20	67/1841 (3.6%)	2.53	139/2500 (5.6%)
1	kr	2.26	63/1841 (3.4%)	2.59	145/2500 (5.8%)
1	ks	2.24	59/1841 (3.2%)	2.49	132/2500 (5.3%)
1	kt	2.30	71/1841 (3.9%)	2.52	145/2500 (5.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	ku	2.16	51/1841 (2.8%)	2.58	152/2500 (6.1%)
1	kv	2.22	70/1841 (3.8%)	2.60	155/2500 (6.2%)
1	kw	2.14	54/1841 (2.9%)	2.55	138/2500 (5.5%)
1	kx	2.21	65/1841 (3.5%)	2.55	136/2500 (5.4%)
1	ky	2.21	63/1841 (3.4%)	2.64	160/2500 (6.4%)
1	kz	2.19	57/1841 (3.1%)	2.52	138/2500 (5.5%)
1	l	2.29	64/1841 (3.5%)	2.58	144/2500 (5.8%)
1	l0	2.25	73/1841 (4.0%)	2.61	147/2500 (5.9%)
1	l1	2.17	56/1841 (3.0%)	2.63	167/2500 (6.7%)
1	l2	2.17	51/1841 (2.8%)	2.54	151/2500 (6.0%)
1	l3	2.28	64/1841 (3.5%)	2.58	137/2500 (5.5%)
1	l4	2.19	59/1841 (3.2%)	2.63	166/2500 (6.6%)
1	l5	2.08	39/1841 (2.1%)	2.54	135/2500 (5.4%)
1	l6	2.13	56/1841 (3.0%)	2.57	148/2500 (5.9%)
1	l7	2.20	51/1841 (2.8%)	2.60	142/2500 (5.7%)
1	l8	2.13	45/1841 (2.4%)	2.65	172/2500 (6.9%)
1	l9	2.25	58/1841 (3.2%)	2.59	136/2500 (5.4%)
1	lA	2.26	73/1841 (4.0%)	2.62	154/2500 (6.2%)
1	lB	2.22	64/1841 (3.5%)	2.63	149/2500 (6.0%)
1	lC	2.23	68/1841 (3.7%)	2.69	170/2500 (6.8%)
1	lD	2.13	45/1841 (2.4%)	2.58	156/2500 (6.2%)
1	lE	2.17	55/1841 (3.0%)	2.65	170/2500 (6.8%)
1	lF	2.23	62/1841 (3.4%)	2.59	154/2500 (6.2%)
1	lG	2.20	58/1841 (3.2%)	2.62	159/2500 (6.4%)
1	lH	2.25	71/1841 (3.9%)	2.67	156/2500 (6.2%)
1	lI	2.26	72/1841 (3.9%)	2.56	137/2500 (5.5%)
1	lJ	2.23	60/1841 (3.3%)	2.57	142/2500 (5.7%)
1	lK	2.23	68/1841 (3.7%)	2.54	148/2500 (5.9%)
1	lL	2.18	63/1841 (3.4%)	2.64	172/2500 (6.9%)
1	lM	2.17	51/1841 (2.8%)	2.72	167/2500 (6.7%)
1	lN	2.25	66/1841 (3.6%)	2.59	147/2500 (5.9%)
1	lO	2.16	47/1841 (2.6%)	2.64	172/2500 (6.9%)
1	lP	2.27	80/1841 (4.3%)	2.47	117/2500 (4.7%)
1	lQ	2.22	63/1841 (3.4%)	2.55	141/2500 (5.6%)
1	lR	2.16	58/1841 (3.2%)	2.52	130/2500 (5.2%)
1	la	2.18	53/1841 (2.9%)	2.49	128/2500 (5.1%)
1	lb	2.21	63/1841 (3.4%)	2.60	140/2500 (5.6%)
1	lc	2.23	63/1841 (3.4%)	2.54	136/2500 (5.4%)
1	ld	2.19	61/1841 (3.3%)	2.63	159/2500 (6.4%)
1	le	2.13	44/1841 (2.4%)	2.58	145/2500 (5.8%)
1	lf	2.31	71/1841 (3.9%)	2.63	158/2500 (6.3%)
1	lg	2.27	70/1841 (3.8%)	2.58	150/2500 (6.0%)
1	lh	2.24	82/1841 (4.5%)	2.61	155/2500 (6.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
1	li	2.19	63/1841 (3.4%)	2.63	165/2500 (6.6%)
1	lj	2.22	61/1841 (3.3%)	2.63	161/2500 (6.4%)
1	lk	2.22	60/1841 (3.3%)	2.59	131/2500 (5.2%)
1	ll	2.22	69/1841 (3.7%)	2.58	155/2500 (6.2%)
1	lm	2.15	59/1841 (3.2%)	2.57	152/2500 (6.1%)
1	ln	2.17	59/1841 (3.2%)	2.61	159/2500 (6.4%)
1	lo	2.18	49/1841 (2.7%)	2.57	141/2500 (5.6%)
1	lp	2.18	53/1841 (2.9%)	2.48	121/2500 (4.8%)
1	lq	2.10	43/1841 (2.3%)	2.62	163/2500 (6.5%)
1	lr	2.22	54/1841 (2.9%)	2.59	146/2500 (5.8%)
1	ls	2.24	54/1841 (2.9%)	2.55	139/2500 (5.6%)
1	lt	2.22	63/1841 (3.4%)	2.60	160/2500 (6.4%)
1	lu	2.25	61/1841 (3.3%)	2.59	156/2500 (6.2%)
1	lv	2.18	62/1841 (3.4%)	2.50	129/2500 (5.2%)
1	lw	2.16	52/1841 (2.8%)	2.64	175/2500 (7.0%)
1	lx	2.17	54/1841 (2.9%)	2.46	113/2500 (4.5%)
1	ly	2.22	59/1841 (3.2%)	2.58	154/2500 (6.2%)
1	lz	2.16	47/1841 (2.6%)	2.63	151/2500 (6.0%)
1	m	2.21	53/1841 (2.9%)	2.56	128/2500 (5.1%)
1	n	2.17	50/1841 (2.7%)	2.53	136/2500 (5.4%)
1	o	2.27	69/1841 (3.7%)	2.61	164/2500 (6.6%)
1	p	2.21	56/1841 (3.0%)	2.65	160/2500 (6.4%)
1	q	2.21	53/1841 (2.9%)	2.64	143/2500 (5.7%)
1	r	2.26	57/1841 (3.1%)	2.57	148/2500 (5.9%)
1	s	2.16	46/1841 (2.5%)	2.58	155/2500 (6.2%)
1	t	2.18	53/1841 (2.9%)	2.61	134/2500 (5.4%)
1	u	2.23	62/1841 (3.4%)	2.60	150/2500 (6.0%)
1	v	2.23	68/1841 (3.7%)	2.60	151/2500 (6.0%)
1	w	2.24	55/1841 (3.0%)	2.51	130/2500 (5.2%)
1	x	2.17	50/1841 (2.7%)	2.58	148/2500 (5.9%)
1	y	2.22	54/1841 (2.9%)	2.65	173/2500 (6.9%)
1	z	2.21	65/1841 (3.5%)	2.62	144/2500 (5.8%)
All	All	2.21	79738/2496396 (3.2%)	2.59	204007/3390000 (6.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	0	0	5
1	1	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	10	0	3
1	11	0	4
1	12	0	7
1	13	0	8
1	14	0	11
1	15	0	5
1	16	0	4
1	17	0	6
1	18	0	3
1	19	0	3
1	1A	0	4
1	1B	0	6
1	1C	0	5
1	1D	0	5
1	1E	0	3
1	1F	0	8
1	1G	0	5
1	1H	0	6
1	1I	0	4
1	1J	0	4
1	1K	0	9
1	1L	0	3
1	1M	0	9
1	1N	0	4
1	1O	0	2
1	1P	0	5
1	1Q	0	4
1	1R	0	6
1	1S	0	8
1	1T	0	9
1	1U	0	4
1	1V	0	7
1	1W	0	7
1	1X	0	7
1	1Y	0	4
1	1Z	0	2
1	1a	0	3
1	1b	0	6
1	1c	0	6
1	1d	0	6
1	1e	0	3
1	1f	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	1g	0	5
1	1h	0	10
1	1i	0	6
1	1j	0	5
1	1k	0	3
1	1l	0	5
1	1m	0	7
1	1n	0	2
1	1o	0	12
1	1p	0	1
1	1q	0	6
1	1r	0	8
1	1s	0	3
1	1t	0	4
1	1u	0	2
1	1v	0	4
1	1w	0	7
1	1x	0	5
1	1y	0	7
1	1z	0	6
1	2	0	3
1	20	0	4
1	21	0	8
1	22	0	6
1	23	0	8
1	24	0	5
1	25	0	4
1	26	0	9
1	27	0	1
1	28	0	6
1	29	0	7
1	2A	0	6
1	2B	0	5
1	2C	0	5
1	2D	0	10
1	2E	0	6
1	2F	0	4
1	2G	0	10
1	2H	0	5
1	2I	0	6
1	2J	0	6
1	2K	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	2L	0	3
1	2M	0	4
1	2N	0	8
1	2O	0	2
1	2P	0	3
1	2Q	0	7
1	2R	0	5
1	2S	0	3
1	2T	0	7
1	2U	0	11
1	2V	0	4
1	2W	0	7
1	2X	0	2
1	2Y	0	4
1	2Z	0	6
1	2a	0	4
1	2b	0	3
1	2c	0	5
1	2d	0	8
1	2e	0	3
1	2f	0	6
1	2g	0	7
1	2h	0	9
1	2i	0	4
1	2j	0	7
1	2k	0	3
1	2l	0	8
1	2m	0	6
1	2n	0	5
1	2o	0	9
1	2p	0	6
1	2q	0	8
1	2r	0	5
1	2s	0	6
1	2t	0	8
1	2u	0	2
1	2v	0	7
1	2w	0	3
1	2x	0	3
1	2y	0	5
1	2z	0	8
1	3	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	30	0	3
1	31	0	4
1	32	0	4
1	33	0	5
1	34	0	4
1	35	0	10
1	36	0	2
1	37	0	7
1	38	0	8
1	39	0	3
1	3A	0	4
1	3B	0	9
1	3C	0	1
1	3D	0	5
1	3E	0	2
1	3F	0	4
1	3G	0	5
1	3H	0	5
1	3I	0	4
1	3J	0	3
1	3K	0	1
1	3L	0	5
1	3M	0	6
1	3N	0	7
1	3O	0	6
1	3P	0	5
1	3Q	0	8
1	3R	0	5
1	3S	0	9
1	3T	0	8
1	3U	0	8
1	3V	0	4
1	3W	0	9
1	3X	0	6
1	3Y	0	6
1	3Z	0	7
1	3a	0	8
1	3b	0	7
1	3c	0	5
1	3d	0	10
1	3e	0	7
1	3f	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	3g	0	4
1	3h	0	5
1	3i	0	7
1	3j	0	3
1	3k	0	7
1	3l	0	6
1	3m	0	5
1	3n	0	4
1	3o	0	4
1	3p	0	7
1	3q	0	5
1	3r	0	9
1	3s	0	9
1	3t	0	9
1	3u	0	5
1	3v	0	5
1	3w	0	7
1	3x	0	2
1	3y	0	6
1	3z	0	8
1	4	0	8
1	40	0	4
1	41	0	4
1	42	0	9
1	43	0	3
1	44	0	5
1	45	0	3
1	46	0	7
1	47	0	8
1	48	0	3
1	49	0	5
1	4A	0	8
1	4B	0	4
1	4C	0	5
1	4D	0	5
1	4E	0	8
1	4F	0	7
1	4G	0	4
1	4H	0	1
1	4I	0	7
1	4J	0	6
1	4K	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	4L	0	7
1	4M	0	4
1	4N	0	5
1	4O	0	4
1	4P	0	4
1	4Q	0	3
1	4R	0	7
1	4S	0	7
1	4T	0	2
1	4U	0	6
1	4V	0	2
1	4W	0	3
1	4X	0	5
1	4Y	0	10
1	4Z	0	3
1	4a	0	8
1	4b	0	5
1	4c	0	7
1	4d	0	6
1	4e	0	7
1	4f	0	4
1	4g	0	7
1	4h	0	3
1	4i	0	4
1	4j	0	6
1	4k	0	5
1	4l	0	5
1	4m	0	7
1	4n	0	3
1	4o	0	10
1	4p	0	6
1	4q	0	6
1	4r	0	7
1	4s	0	5
1	4t	0	3
1	4u	0	5
1	4v	0	3
1	4w	0	8
1	4x	0	4
1	4y	0	6
1	4z	0	6
1	5	0	13

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	50	0	5
1	51	0	3
1	52	0	2
1	53	0	2
1	54	0	3
1	55	0	8
1	56	0	8
1	57	0	5
1	58	0	5
1	59	0	5
1	5A	0	11
1	5B	0	3
1	5C	0	3
1	5D	0	6
1	5E	0	6
1	5F	0	7
1	5G	0	4
1	5H	0	6
1	5I	0	4
1	5J	0	7
1	5K	0	2
1	5L	0	4
1	5M	0	5
1	5N	0	2
1	5O	0	6
1	5P	0	8
1	5Q	0	8
1	5R	0	5
1	5S	0	4
1	5T	0	8
1	5U	0	7
1	5V	0	3
1	5W	0	6
1	5X	0	5
1	5Y	0	1
1	5Z	0	4
1	5a	0	6
1	5b	0	6
1	5c	0	5
1	5d	0	5
1	5e	0	1
1	5f	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	5g	0	6
1	5h	0	4
1	5i	0	4
1	5j	0	1
1	5k	0	6
1	5l	0	7
1	5m	0	6
1	5n	0	4
1	5o	0	7
1	5p	0	5
1	5q	0	3
1	5r	0	5
1	5s	0	7
1	5t	0	6
1	5u	0	4
1	5v	0	6
1	5w	0	5
1	5x	0	6
1	5y	0	7
1	5z	0	4
1	6	0	5
1	60	0	3
1	61	0	2
1	62	0	6
1	63	0	5
1	64	0	6
1	65	0	9
1	66	0	2
1	67	0	5
1	68	0	7
1	69	0	4
1	6A	0	2
1	6B	0	7
1	6C	0	9
1	6D	0	4
1	6E	0	4
1	6F	0	4
1	6G	0	2
1	6H	0	5
1	6I	0	6
1	6J	0	4
1	6K	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	6L	0	4
1	6M	0	6
1	6N	0	7
1	6O	0	8
1	6P	0	10
1	6Q	0	4
1	6R	0	5
1	6S	0	4
1	6T	0	10
1	6U	0	7
1	6V	0	3
1	6W	0	6
1	6X	0	5
1	6Y	0	7
1	6Z	0	9
1	6a	0	4
1	6b	0	6
1	6c	0	2
1	6d	0	5
1	6e	0	4
1	6f	0	6
1	6g	0	6
1	6h	0	3
1	6i	0	5
1	6j	0	6
1	6k	0	2
1	6l	0	8
1	6m	0	4
1	6n	0	3
1	6o	0	6
1	6p	0	5
1	6q	0	5
1	6r	0	3
1	6s	0	6
1	6t	0	4
1	6u	0	7
1	6v	0	6
1	6w	0	6
1	6x	0	6
1	6y	0	2
1	6z	0	2
1	7	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	70	0	5
1	71	0	7
1	72	0	4
1	73	0	3
1	74	0	3
1	75	0	9
1	76	0	4
1	77	0	12
1	78	0	4
1	79	0	6
1	7A	0	4
1	7B	0	4
1	7C	0	7
1	7D	0	8
1	7E	0	3
1	7F	0	2
1	7G	0	7
1	7H	0	10
1	7I	0	8
1	7J	0	7
1	7K	0	5
1	7L	0	10
1	7M	0	8
1	7N	0	4
1	7O	0	4
1	7P	0	6
1	7Q	0	3
1	7R	0	3
1	7S	0	2
1	7T	0	5
1	7U	0	5
1	7V	0	4
1	7W	0	6
1	7X	0	5
1	7Y	0	5
1	7Z	0	7
1	7a	0	4
1	7b	0	4
1	7c	0	13
1	7d	0	6
1	7e	0	7
1	7f	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	7g	0	6
1	7h	0	8
1	7i	0	7
1	7j	0	7
1	7k	0	8
1	7l	0	8
1	7m	0	4
1	7n	0	7
1	7o	0	4
1	7p	0	3
1	7q	0	6
1	7r	0	8
1	7s	0	8
1	7t	0	5
1	7u	0	3
1	7v	0	2
1	7w	0	6
1	7x	0	5
1	7y	0	3
1	7z	0	7
1	8	0	9
1	80	0	8
1	81	0	5
1	82	0	6
1	83	0	4
1	84	0	6
1	85	0	3
1	86	0	5
1	87	0	8
1	88	0	9
1	89	0	5
1	8A	0	7
1	8B	0	9
1	8C	0	5
1	8D	0	3
1	8E	0	6
1	8F	0	9
1	8G	0	7
1	8H	0	4
1	8I	0	3
1	8J	0	4
1	8K	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	8L	0	4
1	8M	0	4
1	8N	0	4
1	8O	0	4
1	8P	0	5
1	8Q	0	5
1	8R	0	7
1	8S	0	7
1	8T	0	3
1	8U	0	7
1	8V	0	4
1	8W	0	5
1	8X	0	10
1	8Y	0	5
1	8Z	0	2
1	8a	0	5
1	8b	0	3
1	8c	0	6
1	8d	0	7
1	8e	0	4
1	8f	0	5
1	8g	0	6
1	8h	0	3
1	8i	0	7
1	8j	0	4
1	8k	0	6
1	8l	0	9
1	8m	0	6
1	8n	0	3
1	8o	0	3
1	8p	0	7
1	8q	0	5
1	8r	0	5
1	8s	0	6
1	8t	0	7
1	8u	0	3
1	8v	0	10
1	8w	0	2
1	8x	0	4
1	8y	0	2
1	8z	0	5
1	9	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	90	0	7
1	91	0	2
1	92	0	8
1	93	0	4
1	94	0	5
1	95	0	4
1	96	0	4
1	97	0	5
1	98	0	6
1	99	0	3
1	9A	0	4
1	9B	0	8
1	9C	0	5
1	9D	0	6
1	9E	0	5
1	9F	0	4
1	9G	0	7
1	9H	0	5
1	9I	0	6
1	9J	0	2
1	9K	0	5
1	9L	0	4
1	9M	0	6
1	9N	0	5
1	9O	0	10
1	9P	0	6
1	9Q	0	4
1	9R	0	2
1	9S	0	5
1	9T	0	8
1	9U	0	5
1	9V	0	3
1	9W	0	6
1	9X	0	8
1	9Y	0	10
1	9Z	0	4
1	9a	0	6
1	9b	0	6
1	9c	0	6
1	9d	0	11
1	9e	0	7
1	9f	0	10

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	9g	0	8
1	9h	0	8
1	9i	0	6
1	9j	0	7
1	9k	0	3
1	9l	0	6
1	9m	0	4
1	9n	0	9
1	9o	0	7
1	9p	0	9
1	9q	0	7
1	9r	0	6
1	9s	0	6
1	9t	0	9
1	9u	0	5
1	9v	0	7
1	9w	0	3
1	9x	0	3
1	9y	0	4
1	9z	0	3
1	A	0	9
1	B	0	2
1	C	0	5
1	D	0	10
1	E	0	2
1	F	0	6
1	G	0	6
1	H	0	3
1	I	0	4
1	J	0	4
1	K	0	6
1	L	0	8
1	M	0	9
1	N	0	10
1	O	0	9
1	P	0	7
1	Q	0	3
1	R	0	8
1	S	0	3
1	T	0	4
1	U	0	4
1	V	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	W	0	3
1	X	0	2
1	Y	0	2
1	Z	0	2
1	a	0	7
1	a0	0	9
1	a1	0	4
1	a2	0	3
1	a3	0	4
1	a4	0	8
1	a5	0	5
1	a6	0	6
1	a7	0	5
1	a8	0	3
1	a9	0	6
1	aA	0	5
1	aB	0	4
1	aC	0	6
1	aD	0	5
1	aE	0	5
1	aF	0	6
1	aG	0	5
1	aH	0	3
1	aI	0	2
1	aJ	0	3
1	aK	0	9
1	aL	0	5
1	aM	0	5
1	aN	0	3
1	aO	0	9
1	aP	0	7
1	aQ	0	4
1	aR	0	5
1	aS	0	7
1	aT	0	2
1	aU	0	8
1	aV	0	8
1	aW	0	5
1	aX	0	8
1	aY	0	7
1	aZ	0	10
1	aa	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	ab	0	7
1	ac	0	8
1	ad	0	6
1	ae	0	7
1	af	0	5
1	ag	0	7
1	ah	0	4
1	ai	0	7
1	aj	0	5
1	ak	0	1
1	al	0	5
1	am	0	6
1	an	0	3
1	ao	0	7
1	ap	0	8
1	aq	0	5
1	ar	0	3
1	as	0	5
1	at	0	5
1	au	0	6
1	av	0	8
1	aw	0	6
1	ax	0	10
1	ay	0	3
1	az	0	7
1	b	0	6
1	b0	0	4
1	b1	0	9
1	b2	0	6
1	b3	0	10
1	b4	0	7
1	b5	0	7
1	b6	0	8
1	b7	0	4
1	b8	0	3
1	b9	0	3
1	bA	0	4
1	bB	0	8
1	bC	0	7
1	bD	0	4
1	bE	0	12
1	bF	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	bG	0	4
1	bH	0	6
1	bI	0	6
1	bJ	0	6
1	bK	0	5
1	bL	0	5
1	bM	0	5
1	bN	0	6
1	bO	0	2
1	bP	0	3
1	bQ	0	3
1	bR	0	13
1	bS	0	5
1	bT	0	6
1	bU	0	5
1	bV	0	6
1	bW	0	9
1	bX	0	3
1	bY	0	5
1	bZ	0	7
1	ba	0	7
1	bb	0	6
1	bc	0	6
1	bd	0	2
1	be	0	3
1	bf	0	8
1	bg	0	6
1	bh	0	4
1	bi	0	7
1	bj	0	5
1	bk	0	6
1	bl	0	4
1	bm	0	10
1	bn	0	6
1	bo	0	6
1	bp	0	3
1	bq	0	8
1	br	0	8
1	bs	0	6
1	bt	0	3
1	bu	0	2
1	bv	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	bw	0	5
1	bx	0	9
1	by	0	5
1	bz	0	7
1	c	0	7
1	c0	0	7
1	c1	0	4
1	c2	0	5
1	c3	0	6
1	c4	0	8
1	c5	0	4
1	c6	0	1
1	c7	0	6
1	c8	0	4
1	c9	0	4
1	cA	0	5
1	cB	0	7
1	cC	0	5
1	cD	0	4
1	cE	0	4
1	cF	0	2
1	cG	0	3
1	cH	0	7
1	cI	0	4
1	cJ	0	5
1	cK	0	4
1	cL	0	5
1	cM	0	4
1	cN	0	5
1	cO	0	6
1	cP	0	2
1	cQ	0	9
1	cR	0	3
1	cS	0	4
1	cT	0	11
1	cU	0	8
1	cV	0	5
1	cW	0	9
1	cX	0	5
1	cY	0	4
1	cZ	0	5
1	ca	0	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	cb	0	6
1	cc	0	7
1	cd	0	3
1	ce	0	2
1	cf	0	2
1	cg	0	8
1	ch	0	4
1	ci	0	6
1	cj	0	8
1	ck	0	6
1	cl	0	2
1	cm	0	5
1	cn	0	8
1	co	0	3
1	cp	0	8
1	cq	0	6
1	cr	0	6
1	cs	0	9
1	ct	0	6
1	cu	0	7
1	cv	0	7
1	cw	0	4
1	cx	0	5
1	cy	0	4
1	cz	0	4
1	d	0	5
1	d0	0	5
1	d1	0	4
1	d2	0	7
1	d3	0	4
1	d4	0	7
1	d5	0	5
1	d6	0	8
1	d7	0	4
1	d8	0	6
1	d9	0	9
1	dA	0	8
1	dB	0	1
1	dC	0	10
1	dD	0	3
1	dE	0	10
1	dF	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	dG	0	5
1	dH	0	3
1	dI	0	4
1	dJ	0	5
1	dK	0	5
1	dL	0	6
1	dM	0	4
1	dN	0	8
1	dO	0	3
1	dP	0	6
1	dQ	0	9
1	dR	0	5
1	dS	0	6
1	dT	0	5
1	dU	0	7
1	dV	0	5
1	dW	0	8
1	dX	0	5
1	dY	0	6
1	dZ	0	6
1	da	0	5
1	db	0	5
1	dc	0	6
1	dd	0	4
1	de	0	7
1	df	0	8
1	dg	0	7
1	dh	0	4
1	di	0	5
1	dj	0	9
1	dk	0	2
1	dl	0	5
1	dm	0	7
1	dn	0	7
1	do	0	5
1	dp	0	5
1	dq	0	1
1	dr	0	6
1	ds	0	3
1	dt	0	3
1	du	0	5
1	dv	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	dw	0	7
1	dx	0	8
1	dy	0	2
1	dz	0	7
1	e	0	5
1	e0	0	2
1	e1	0	4
1	e2	0	1
1	e3	0	3
1	e4	0	4
1	e5	0	4
1	e6	0	6
1	e7	0	5
1	e8	0	6
1	e9	0	3
1	eA	0	9
1	eB	0	4
1	eC	0	6
1	eD	0	5
1	eE	0	7
1	eF	0	5
1	eG	0	5
1	eH	0	3
1	eI	0	7
1	eJ	0	4
1	eK	0	6
1	eL	0	4
1	eM	0	6
1	eN	0	7
1	eO	0	3
1	eP	0	10
1	eQ	0	2
1	eR	0	3
1	eS	0	5
1	eT	0	5
1	eU	0	4
1	eV	0	3
1	eW	0	4
1	eX	0	7
1	eY	0	4
1	eZ	0	5
1	ea	0	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	eb	0	1
1	ec	0	9
1	ed	0	5
1	ee	0	7
1	ef	0	8
1	eg	0	5
1	eh	0	9
1	ei	0	6
1	ej	0	7
1	ek	0	5
1	el	0	6
1	em	0	6
1	en	0	8
1	eo	0	6
1	ep	0	6
1	eq	0	5
1	er	0	6
1	es	0	4
1	et	0	6
1	eu	0	2
1	ev	0	6
1	ew	0	3
1	ex	0	8
1	ey	0	4
1	ez	0	5
1	f	0	5
1	f1	0	3
1	f2	0	5
1	f3	0	6
1	f4	0	5
1	f5	0	5
1	f6	0	4
1	f7	0	6
1	f8	0	7
1	f9	0	4
1	fA	0	7
1	fB	0	6
1	fC	0	5
1	fD	0	2
1	fE	0	8
1	fF	0	6
1	fG	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	fH	0	5
1	fI	0	4
1	fJ	0	3
1	fK	0	4
1	fL	0	6
1	fM	0	2
1	fN	0	6
1	fO	0	3
1	fP	0	6
1	fQ	0	4
1	fR	0	4
1	fS	0	5
1	fT	0	2
1	fU	0	8
1	fV	0	4
1	fW	0	2
1	fX	0	6
1	fY	0	6
1	fZ	0	7
1	fa	0	5
1	fb	0	6
1	fc	0	5
1	fd	0	4
1	fe	0	7
1	ff	0	6
1	fg	0	3
1	fh	0	8
1	fi	0	5
1	fj	0	4
1	fk	0	7
1	fl	0	3
1	fm	0	4
1	fn	0	6
1	fo	0	6
1	fp	0	4
1	fq	0	9
1	fr	0	2
1	fs	0	10
1	ft	0	6
1	fu	0	7
1	fv	0	6
1	fw	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	fx	0	2
1	fy	0	9
1	fz	0	7
1	g	0	5
1	g0	0	6
1	g1	0	6
1	g2	0	3
1	g3	0	8
1	g4	0	9
1	g5	0	6
1	g6	0	4
1	g7	0	4
1	g8	0	5
1	g9	0	4
1	gA	0	4
1	gB	0	5
1	gC	0	3
1	gD	0	5
1	gE	0	3
1	gF	0	5
1	gG	0	6
1	gH	0	8
1	gI	0	6
1	gJ	0	6
1	gK	0	4
1	gL	0	9
1	gM	0	10
1	gN	0	3
1	gO	0	9
1	gP	0	6
1	gQ	0	1
1	gR	0	5
1	gS	0	8
1	gT	0	5
1	gU	0	8
1	gV	0	3
1	gW	0	6
1	gX	0	10
1	gY	0	5
1	gZ	0	3
1	ga	0	7
1	gb	0	8

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	gc	0	3
1	gd	0	4
1	ge	0	6
1	gf	0	5
1	gg	0	7
1	gh	0	7
1	gi	0	5
1	gj	0	2
1	gk	0	5
1	gl	0	6
1	gm	0	3
1	gn	0	7
1	go	0	7
1	gp	0	7
1	gq	0	7
1	gr	0	7
1	gs	0	7
1	gt	0	5
1	gu	0	4
1	gv	0	5
1	gw	0	6
1	gx	0	4
1	gy	0	5
1	gz	0	3
1	h	0	3
1	h0	0	7
1	h1	0	3
1	h2	0	4
1	h3	0	5
1	h4	0	6
1	h5	0	10
1	h6	0	6
1	h7	0	2
1	h8	0	3
1	h9	0	4
1	hA	0	4
1	hB	0	2
1	hC	0	7
1	hD	0	6
1	hE	0	4
1	hF	0	8
1	hG	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	hH	0	4
1	hI	0	6
1	hJ	0	7
1	hK	0	5
1	hL	0	9
1	hM	0	8
1	hN	0	9
1	hO	0	4
1	hP	0	5
1	hQ	0	4
1	hR	0	6
1	hS	0	5
1	hT	0	5
1	hU	0	9
1	hV	0	9
1	hW	0	9
1	hX	0	4
1	hY	0	9
1	hZ	0	5
1	ha	0	5
1	hb	0	4
1	hc	0	4
1	hd	0	6
1	he	0	8
1	hf	0	4
1	hg	0	4
1	hh	0	4
1	hi	0	3
1	hj	0	6
1	hk	0	3
1	hl	0	2
1	hm	0	6
1	hn	0	7
1	ho	0	8
1	hp	0	11
1	hq	0	8
1	hr	0	6
1	hs	0	8
1	ht	0	5
1	hu	0	3
1	hv	0	7
1	hw	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	hx	0	5
1	hy	0	6
1	hz	0	7
1	i	0	6
1	i0	0	8
1	i1	0	6
1	i2	0	10
1	i3	0	3
1	i4	0	7
1	i5	0	7
1	i6	0	3
1	i7	0	12
1	i8	0	4
1	i9	0	5
1	iA	0	7
1	iB	0	3
1	iC	0	5
1	iD	0	4
1	iE	0	4
1	iF	0	5
1	iG	0	4
1	iH	0	6
1	iI	0	4
1	iJ	0	10
1	iK	0	3
1	iL	0	2
1	iM	0	4
1	iN	0	8
1	iO	0	6
1	iP	0	4
1	iQ	0	3
1	iR	0	7
1	iS	0	8
1	iT	0	5
1	iU	0	1
1	iV	0	7
1	iW	0	5
1	iX	0	4
1	iY	0	7
1	iZ	0	6
1	ia	0	5
1	ib	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	ic	0	3
1	id	0	4
1	ie	0	7
1	if	0	3
1	ig	0	11
1	ih	0	10
1	ii	0	4
1	ij	0	7
1	ik	0	8
1	il	0	7
1	im	0	6
1	in	0	4
1	io	0	4
1	ip	0	6
1	iq	0	4
1	ir	0	6
1	is	0	5
1	it	0	3
1	iu	0	5
1	iv	0	8
1	iw	0	4
1	ix	0	6
1	iy	0	5
1	iz	0	6
1	j	0	2
1	j0	0	6
1	j1	0	3
1	j2	0	7
1	j3	0	6
1	j4	0	3
1	j5	0	8
1	j6	0	6
1	j7	0	2
1	j8	0	5
1	j9	0	9
1	jA	0	7
1	jB	0	6
1	jC	0	7
1	jD	0	7
1	jE	0	4
1	jF	0	8
1	jG	0	4

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	jH	0	5
1	jI	0	3
1	jJ	0	7
1	jK	0	7
1	jL	0	6
1	jM	0	5
1	jN	0	4
1	jO	0	8
1	jP	0	6
1	jQ	0	5
1	jR	0	2
1	jS	0	6
1	jT	0	6
1	jU	0	6
1	jV	0	1
1	jW	0	4
1	jX	0	2
1	jY	0	9
1	jZ	0	8
1	ja	0	4
1	jb	0	6
1	jc	0	8
1	jd	0	3
1	je	0	6
1	jf	0	5
1	jg	0	10
1	jh	0	7
1	ji	0	7
1	jj	0	7
1	jk	0	4
1	jl	0	7
1	jm	0	8
1	jn	0	7
1	jo	0	6
1	jp	0	5
1	jq	0	9
1	jr	0	4
1	js	0	7
1	jt	0	8
1	ju	0	7
1	jv	0	2
1	jw	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	jx	0	6
1	jy	0	2
1	jz	0	5
1	k	0	9
1	k0	0	9
1	k1	0	8
1	k2	0	5
1	k3	0	4
1	k4	0	8
1	k5	0	4
1	k6	0	7
1	k7	0	7
1	k8	0	7
1	k9	0	7
1	kA	0	4
1	kB	0	8
1	kC	0	7
1	kD	0	5
1	kE	0	4
1	kF	0	2
1	kG	0	8
1	kH	0	7
1	kI	0	1
1	kJ	0	11
1	kK	0	6
1	kL	0	3
1	kM	0	2
1	kN	0	1
1	kO	0	4
1	kP	0	9
1	kQ	0	5
1	kR	0	8
1	kS	0	4
1	kT	0	5
1	kU	0	8
1	kV	0	5
1	kW	0	8
1	kX	0	6
1	kY	0	5
1	kZ	0	5
1	ka	0	9
1	kb	0	9

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	kc	0	7
1	kd	0	3
1	ke	0	1
1	kf	0	3
1	kg	0	2
1	kh	0	7
1	ki	0	7
1	kj	0	4
1	kk	0	6
1	kl	0	3
1	km	0	4
1	kn	0	6
1	ko	0	10
1	kp	0	6
1	kq	0	4
1	kr	0	7
1	ks	0	4
1	kt	0	6
1	ku	0	6
1	kv	0	9
1	kw	0	4
1	kx	0	9
1	ky	0	9
1	kz	0	5
1	l	0	5
1	l0	0	10
1	l1	0	4
1	l2	0	5
1	l3	0	6
1	l4	0	3
1	l5	0	5
1	l6	0	2
1	l7	0	8
1	l8	0	8
1	l9	0	4
1	lA	0	4
1	lB	0	7
1	lC	0	5
1	lD	0	3
1	lE	0	4
1	lF	0	7
1	lG	0	6

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	lH	0	11
1	lI	0	5
1	lJ	0	4
1	lK	0	5
1	lL	0	5
1	lM	0	8
1	lN	0	6
1	lO	0	6
1	lP	0	5
1	lQ	0	6
1	lR	0	2
1	la	0	9
1	lb	0	5
1	lc	0	2
1	ld	0	4
1	le	0	5
1	lf	0	10
1	lg	0	1
1	lh	0	5
1	li	0	6
1	lj	0	7
1	lk	0	5
1	ll	0	9
1	ln	0	5
1	lo	0	8
1	lp	0	7
1	lq	0	6
1	lr	0	8
1	ls	0	5
1	lt	0	6
1	lu	0	5
1	lv	0	6
1	lw	0	2
1	lx	0	4
1	ly	0	6
1	lz	0	7
1	m	0	5
1	n	0	9
1	o	0	5
1	p	0	2
1	q	0	6
1	r	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	s	0	2
1	t	0	6
1	u	0	1
1	v	0	6
1	w	0	5
1	x	0	5
1	y	0	1
1	z	0	6
All	All	0	7415

All (79738) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h6	37	ILE	CA-CB	20.53	1.65	1.54
1	2W	37	ILE	CA-CB	-19.67	1.44	1.54
1	90	37	ILE	CA-CB	-19.09	1.44	1.54
1	aV	37	ILE	CA-CB	-19.00	1.44	1.54
1	5O	37	ILE	CA-CB	-18.67	1.44	1.54
1	2R	37	ILE	CA-CB	-17.88	1.45	1.54
1	fU	37	ILE	CA-CB	-17.39	1.45	1.54
1	54	37	ILE	CA-CB	-17.23	1.45	1.54
1	dK	37	ILE	CA-CB	-16.73	1.45	1.54
1	hg	37	ILE	CA-CB	16.57	1.63	1.54
1	he	37	ILE	CA-CB	16.26	1.62	1.54
1	c6	125	PRO	CA-CB	-15.98	1.43	1.53
1	1k	37	ILE	CA-CB	15.89	1.62	1.54
1	aB	37	ILE	CA-CB	-15.86	1.45	1.54
1	l9	37	ILE	CA-CB	-15.85	1.46	1.54
1	kp	37	ILE	CA-CB	15.82	1.62	1.54
1	4a	37	ILE	CA-CB	-15.77	1.45	1.54
1	6a	6	LEU	N-CA	-15.68	1.36	1.46
1	H	188	THR	CA-C	-15.57	1.37	1.53
1	98	37	ILE	CA-CB	-15.54	1.46	1.54
1	91	37	ILE	CA-CB	-15.42	1.46	1.54
1	2X	124	ILE	CA-C	-15.37	1.41	1.52
1	3L	37	ILE	CA-CB	-15.37	1.46	1.54
1	3X	37	ILE	CA-CB	-15.16	1.46	1.54
1	89	125	PRO	CA-CB	15.15	1.62	1.53
1	9H	37	ILE	CA-CB	-15.15	1.46	1.54
1	3F	188	THR	CA-C	15.10	1.59	1.52
1	85	37	ILE	CA-CB	-14.94	1.46	1.54
1	ch	37	ILE	CA-CB	14.90	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9p	37	ILE	CA-CB	-14.90	1.46	1.54
1	iI	37	ILE	CA-CB	14.88	1.61	1.54
1	h8	37	ILE	CA-C	14.86	1.65	1.52
1	ct	37	ILE	CA-CB	-14.67	1.46	1.54
1	2t	37	ILE	CA-CB	-14.66	1.46	1.54
1	7E	37	ILE	CA-CB	-14.62	1.46	1.54
1	7y	37	ILE	CA-CB	-14.60	1.46	1.54
1	hm	37	ILE	CA-C	14.59	1.66	1.52
1	8W	188	THR	CA-C	-14.53	1.42	1.52
1	6P	125	PRO	CA-CB	14.49	1.63	1.53
1	i1	37	ILE	CA-CB	-14.35	1.47	1.54
1	2T	37	ILE	CA-CB	-14.33	1.46	1.54
1	cY	188	THR	CA-C	14.26	1.62	1.52
1	km	125	PRO	CA-CB	14.22	1.63	1.53
1	fc	37	ILE	CA-CB	-14.19	1.47	1.54
1	c4	124	ILE	N-CA	-14.15	1.35	1.46
1	1l	124	ILE	N-CA	-14.08	1.35	1.46
1	5	37	ILE	CA-CB	14.05	1.61	1.54
1	9L	125	PRO	CA-CB	14.03	1.62	1.53
1	dz	37	ILE	CA-CB	14.03	1.61	1.54
1	kG	125	PRO	CA-CB	14.00	1.62	1.53
1	dF	37	ILE	CA-CB	-13.95	1.46	1.54
1	h	37	ILE	CA-CB	13.94	1.61	1.54
1	8c	8	GLY	N-CA	13.91	1.57	1.45
1	8S	37	ILE	CA-CB	-13.72	1.47	1.54
1	3F	37	ILE	CA-CB	-13.66	1.47	1.54
1	c4	37	ILE	CA-CB	13.55	1.61	1.54
1	6d	37	ILE	CA-CB	13.54	1.60	1.54
1	gl	33	SER	CA-CB	13.51	1.71	1.53
1	iW	37	ILE	CA-C	13.51	1.65	1.52
1	9V	37	ILE	CA-CB	-13.40	1.47	1.54
1	15	37	ILE	CA-CB	-13.40	1.47	1.54
1	6t	37	ILE	CA-CB	13.38	1.61	1.54
1	4M	121	ASN	CA-C	13.35	1.63	1.52
1	2X	124	ILE	CA-CB	13.35	1.64	1.54
1	iV	37	ILE	CA-CB	13.25	1.62	1.53
1	3p	37	ILE	CA-C	13.20	1.64	1.52
1	gy	188	THR	CA-C	-13.16	1.43	1.52
1	d7	33	SER	C-N	13.15	1.46	1.33
1	2B	26	VAL	CA-CB	-13.15	1.40	1.54
1	8Q	189	LEU	CA-C	-13.11	1.43	1.52
1	eW	188	THR	CA-C	-13.02	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fD	37	ILE	CA-CB	12.98	1.61	1.54
1	cv	33	SER	CA-C	12.92	1.67	1.53
1	2e	125	PRO	CA-CB	12.85	1.61	1.53
1	lj	37	ILE	CA-CB	12.78	1.61	1.54
1	5Q	87	HIS	ND1-CE1	12.77	1.45	1.32
1	5X	37	ILE	CA-C	12.73	1.64	1.52
1	hM	37	ILE	CA-CB	-12.71	1.47	1.54
1	7e	145	TYR	CA-C	12.71	1.60	1.52
1	aC	37	ILE	CA-CB	-12.67	1.47	1.54
1	jm	37	ILE	CA-CB	12.65	1.61	1.54
1	8a	188	THR	CA-C	12.65	1.59	1.52
1	fG	37	ILE	CA-CB	-12.64	1.47	1.54
1	2x	84	HIS	C-O	-12.60	1.18	1.23
1	4y	37	ILE	CA-CB	-12.59	1.47	1.54
1	5b	37	ILE	CA-CB	-12.57	1.47	1.54
1	5h	84	HIS	C-N	12.56	1.47	1.33
1	70	121	ASN	CA-C	12.50	1.62	1.52
1	f9	37	ILE	CA-C	12.50	1.64	1.52
1	av	37	ILE	CA-CB	12.49	1.60	1.54
1	fk	125	PRO	CA-CB	12.47	1.62	1.53
1	23	37	ILE	CA-CB	-12.45	1.45	1.53
1	Y	37	ILE	CA-C	12.43	1.64	1.52
1	2G	37	ILE	CA-C	12.42	1.63	1.52
1	i8	37	ILE	CA-CB	12.41	1.61	1.54
1	5h	124	ILE	N-CA	-12.39	1.37	1.46
1	2C	121	ASN	CA-C	12.38	1.65	1.52
1	b0	37	ILE	CA-CB	-12.35	1.48	1.54
1	62	37	ILE	CA-CB	12.34	1.61	1.54
1	jL	37	ILE	CA-CB	12.33	1.60	1.54
1	g4	191	VAL	CA-CB	12.32	1.68	1.54
1	j	6	LEU	CA-C	12.31	1.61	1.52
1	km	146	SER	C-N	12.19	1.43	1.33
1	fc	188	THR	CA-C	-12.10	1.44	1.52
1	dU	229	ARG	CD-NE	12.09	1.63	1.46
1	fT	37	ILE	C-N	12.08	1.44	1.33
1	S	37	ILE	CA-CB	12.05	1.60	1.54
1	bd	209	ALA	CA-C	12.04	1.67	1.52
1	1B	153	ILE	CA-CB	-12.04	1.42	1.54
1	jn	37	ILE	CA-CB	12.04	1.60	1.54
1	hQ	37	ILE	CA-CB	-12.03	1.47	1.54
1	3Q	37	ILE	CA-CB	-12.02	1.47	1.54
1	jC	24	VAL	CA-C	11.99	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5j	37	ILE	CA-CB	11.99	1.60	1.54
1	ff	37	ILE	CA-CB	-11.97	1.47	1.54
1	8Y	188	THR	CA-C	11.96	1.59	1.52
1	3R	37	ILE	CA-CB	11.94	1.60	1.54
1	gK	226	HIS	ND1-CE1	11.89	1.44	1.32
1	hH	79	GLU	CA-C	11.88	1.68	1.52
1	2D	87	HIS	ND1-CE1	11.88	1.44	1.32
1	he	91	ILE	CA-CB	-11.87	1.42	1.54
1	25	127	GLY	CA-C	-11.87	1.39	1.52
1	kf	191	VAL	CA-CB	-11.86	1.41	1.54
1	ca	124	ILE	CA-C	-11.86	1.42	1.53
1	1D	133	TRP	NE1-CE2	11.85	1.50	1.37
1	9H	37	ILE	CA-C	11.84	1.63	1.52
1	g2	33	SER	CA-C	11.83	1.63	1.52
1	jb	37	ILE	CA-CB	11.83	1.61	1.53
1	eS	225	GLY	CA-C	-11.81	1.37	1.52
1	jh	184	TRP	CA-C	11.79	1.68	1.52
1	ga	146	SER	C-N	-11.78	1.24	1.33
1	3A	19	THR	CA-C	-11.77	1.37	1.52
1	R	188	THR	CA-C	-11.77	1.44	1.52
1	kG	124	ILE	CA-C	11.73	1.65	1.52
1	5V	153	ILE	CA-C	-11.72	1.42	1.52
1	jy	91	ILE	CA-C	11.71	1.63	1.52
1	9C	3	VAL	N-CA	-11.70	1.31	1.46
1	aL	37	ILE	CA-CB	11.69	1.59	1.54
1	hb	37	ILE	CA-CB	-11.67	1.48	1.54
1	29	124	ILE	N-CA	-11.60	1.35	1.46
1	cV	124	ILE	CA-C	11.59	1.62	1.53
1	3h	226	HIS	ND1-CE1	11.58	1.44	1.32
1	bg	147	PRO	CA-C	11.58	1.62	1.53
1	bM	37	ILE	CA-CB	-11.57	1.48	1.54
1	ez	37	ILE	CA-CB	11.57	1.60	1.54
1	1d	129	ILE	CA-CB	11.56	1.68	1.54
1	fV	124	ILE	CA-C	11.56	1.62	1.53
1	gf	195	ASN	CA-CB	11.54	1.71	1.53
1	18	90	PRO	CA-C	11.53	1.62	1.53
1	4u	124	ILE	CA-C	11.53	1.62	1.53
1	8T	31	ALA	CA-C	11.51	1.68	1.52
1	8l	188	THR	CA-C	11.50	1.58	1.52
1	bb	37	ILE	CA-CB	-11.50	1.48	1.54
1	lo	37	ILE	CA-C	11.49	1.63	1.52
1	70	146	SER	CA-CB	11.49	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eR	23	TRP	NE1-CE2	-11.49	1.24	1.37
1	1Y	221	VAL	CA-CB	-11.48	1.43	1.54
1	bS	188	THR	CA-C	-11.47	1.44	1.52
1	9U	125	PRO	CA-CB	11.47	1.61	1.53
1	hI	188	THR	CA-C	-11.46	1.43	1.52
1	9z	220	GLY	C-O	-11.45	1.16	1.24
1	9J	124	ILE	CA-C	-11.45	1.44	1.52
1	jZ	229	ARG	CA-C	11.44	1.67	1.52
1	3g	188	THR	CA-C	-11.44	1.47	1.52
1	5t	173	ARG	N-CA	11.44	1.59	1.46
1	7T	10	MET	C-N	11.40	1.45	1.33
1	ai	37	ILE	CA-CB	11.38	1.60	1.54
1	dm	3	VAL	CA-C	11.38	1.65	1.52
1	bd	37	ILE	CA-CB	-11.36	1.48	1.54
1	gV	125	PRO	CA-CB	11.35	1.61	1.53
1	P	15	ILE	N-CA	-11.35	1.34	1.46
1	7Z	23	TRP	NE1-CE2	-11.34	1.25	1.37
1	iW	137	GLY	CA-C	11.30	1.65	1.51
1	1X	121	ASN	CA-C	-11.27	1.43	1.52
1	5z	37	ILE	CA-CB	-11.27	1.48	1.54
1	9q	37	ILE	CA-CB	-11.27	1.46	1.53
1	lH	3	VAL	CA-C	11.26	1.66	1.52
1	h9	125	PRO	CA-CB	11.24	1.61	1.53
1	3G	226	HIS	ND1-CE1	11.23	1.43	1.32
1	eN	37	ILE	CA-C	11.23	1.62	1.52
1	eh	6	LEU	CA-C	-11.22	1.41	1.52
1	1k	123	PRO	C-N	11.21	1.43	1.33
1	1b	124	ILE	CA-C	11.20	1.62	1.53
1	c1	123	PRO	CA-CB	11.20	1.66	1.54
1	34	37	ILE	CA-CB	-11.19	1.46	1.53
1	5C	91	ILE	CA-CB	-11.19	1.43	1.54
1	fy	134	ILE	CA-CB	-11.19	1.41	1.54
1	jJ	144	MET	CA-C	-11.19	1.38	1.52
1	aK	87	HIS	ND1-CE1	11.18	1.43	1.32
1	aO	188	THR	CA-C	-11.17	1.45	1.52
1	cj	206	GLY	C-N	-11.17	1.23	1.34
1	aS	84	HIS	N-CA	-11.17	1.34	1.46
1	iO	37	ILE	CA-C	11.16	1.63	1.52
1	4i	124	ILE	CA-C	11.16	1.64	1.52
1	d8	195	ASN	CA-C	11.16	1.64	1.53
1	8C	125	PRO	CA-CB	11.15	1.64	1.53
1	6j	123	PRO	CA-CB	11.15	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	12	HIS	ND1-CE1	11.14	1.43	1.32
1	6e	37	ILE	CA-CB	11.14	1.60	1.54
1	7d	30	LYS	CA-C	11.14	1.62	1.52
1	7m	90	PRO	CA-C	-11.12	1.38	1.52
1	aX	37	ILE	CA-CB	11.12	1.59	1.54
1	6r	37	ILE	CA-CB	-11.11	1.48	1.54
1	ei	124	ILE	CA-C	11.10	1.61	1.53
1	gm	125	PRO	CA-C	-11.10	1.43	1.53
1	3N	3	VAL	CA-C	-11.10	1.40	1.52
1	l3	92	GLU	CA-C	11.08	1.65	1.52
1	4R	110	THR	CA-C	-11.08	1.39	1.52
1	3s	37	ILE	CA-C	11.08	1.62	1.52
1	5C	206	GLY	C-N	11.08	1.42	1.33
1	4G	37	ILE	CA-CB	-11.07	1.48	1.54
1	8y	31	ALA	CA-C	11.07	1.63	1.53
1	3V	2	ILE	CA-C	11.06	1.65	1.53
1	7b	51	ASP	N-CA	11.05	1.59	1.46
1	kl	141	ILE	CA-C	11.05	1.66	1.52
1	7O	137	GLY	CA-C	-11.04	1.40	1.52
1	iL	20	LEU	CA-C	-11.04	1.39	1.52
1	6z	198	CYS	C-N	11.04	1.47	1.33
1	dU	226	HIS	ND1-CE1	11.04	1.43	1.32
1	hO	37	ILE	CA-C	11.03	1.62	1.52
1	3m	121	ASN	CA-CB	11.03	1.67	1.53
1	gc	80	TRP	NE1-CE2	-11.03	1.25	1.37
1	6s	37	ILE	CA-CB	-11.03	1.46	1.53
1	fq	33	SER	N-CA	-11.03	1.36	1.46
1	4x	213	GLU	C-N	11.01	1.48	1.33
1	76	198	CYS	CA-C	-11.00	1.38	1.52
1	e7	115	ILE	C-N	10.99	1.46	1.33
1	ll	37	ILE	CA-CB	-10.99	1.48	1.54
1	7j	92	GLU	CA-C	10.99	1.63	1.52
1	2l	123	PRO	CA-C	10.96	1.64	1.52
1	eG	206	GLY	C-N	-10.96	1.23	1.34
1	ko	12	HIS	ND1-CE1	10.95	1.43	1.32
1	6q	59	VAL	CA-CB	-10.95	1.41	1.54
1	iU	216	THR	C-N	10.94	1.47	1.33
1	5s	124	ILE	N-CA	-10.94	1.38	1.46
1	jl	121	ASN	CA-C	10.93	1.61	1.52
1	i4	52	LEU	CA-C	10.93	1.66	1.52
1	cb	84	HIS	C-N	10.92	1.42	1.33
1	bO	37	ILE	CA-C	10.91	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g7	91	ILE	CA-CB	-10.91	1.41	1.54
1	ge	124	ILE	CA-C	10.90	1.64	1.52
1	1k	124	ILE	CA-C	10.90	1.61	1.53
1	6B	84	HIS	ND1-CE1	10.90	1.43	1.32
1	7i	21	ASN	CA-C	10.90	1.67	1.52
1	7F	2	ILE	CA-C	10.89	1.64	1.52
1	hY	205	LEU	CA-C	10.88	1.67	1.52
1	2j	12	HIS	ND1-CE1	10.88	1.43	1.32
1	5K	58	THR	CA-C	-10.87	1.38	1.52
1	bI	191	VAL	CA-C	-10.86	1.39	1.52
1	jH	37	ILE	CA-C	10.85	1.62	1.52
1	iN	123	PRO	C-N	10.85	1.43	1.33
1	8F	62	HIS	CE1-NE2	10.84	1.43	1.32
1	kB	114	GLN	C-N	10.84	1.47	1.33
1	l0	123	PRO	C-N	10.84	1.44	1.33
1	3H	37	ILE	CA-C	10.84	1.61	1.52
1	jW	62	HIS	CE1-NE2	10.82	1.43	1.32
1	23	117	TRP	CA-C	10.81	1.67	1.52
1	fU	105	ALA	C-N	10.81	1.44	1.33
1	aD	137	GLY	CA-C	-10.79	1.39	1.52
1	iM	37	ILE	CA-CB	-10.78	1.48	1.54
1	ag	121	ASN	CA-C	10.76	1.61	1.52
1	2n	33	SER	CA-C	10.76	1.63	1.52
1	8G	219	GLN	N-CA	-10.76	1.33	1.46
1	3c	84	HIS	ND1-CE1	10.76	1.43	1.32
1	b9	32	PHE	CA-CB	10.75	1.66	1.52
1	jX	120	HIS	ND1-CE1	10.75	1.43	1.32
1	94	84	HIS	C-N	-10.74	1.24	1.33
1	2i	121	ASN	CA-CB	10.74	1.66	1.53
1	iL	37	ILE	CA-C	10.73	1.62	1.52
1	48	213	GLU	CA-C	10.73	1.66	1.52
1	k6	10	MET	CA-C	10.72	1.57	1.52
1	fd	92	GLU	C-N	10.72	1.42	1.33
1	bP	188	THR	CA-C	10.72	1.57	1.52
1	ca	61	GLY	N-CA	10.71	1.55	1.44
1	65	192	GLN	N-CA	-10.71	1.33	1.46
1	kM	37	ILE	CA-CB	10.70	1.60	1.54
1	ec	86	VAL	CA-CB	-10.69	1.43	1.54
1	fc	121	ASN	CA-C	10.69	1.64	1.52
1	i	92	GLU	CA-CB	10.69	1.66	1.53
1	gH	147	PRO	CA-C	-10.67	1.38	1.52
1	6w	37	ILE	CA-CB	10.67	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	121	ASN	CA-C	-10.67	1.44	1.52
1	bT	37	ILE	CA-C	10.66	1.64	1.52
1	iX	123	PRO	C-N	10.66	1.42	1.33
1	as	125	PRO	CA-C	10.65	1.62	1.53
1	6X	33	SER	N-CA	-10.65	1.36	1.46
1	5D	58	THR	C-N	10.64	1.44	1.33
1	7B	9	GLN	CA-C	10.63	1.62	1.52
1	9Q	119	THR	N-CA	10.63	1.60	1.46
1	cI	177	ALA	CA-C	10.63	1.65	1.52
1	8N	120	HIS	ND1-CE1	10.62	1.43	1.32
1	55	229	ARG	CD-NE	10.62	1.61	1.46
1	bv	121	ASN	CA-CB	10.62	1.65	1.53
1	w	214	MET	CA-C	-10.62	1.39	1.52
1	a1	226	HIS	CB-CG	10.62	1.65	1.50
1	jF	123	PRO	C-N	10.61	1.42	1.33
1	iJ	223	GLY	C-N	-10.61	1.23	1.34
1	cT	93	PRO	CA-CB	10.60	1.67	1.53
1	31	120	HIS	CA-C	10.59	1.67	1.52
1	fi	125	PRO	CA-C	-10.59	1.44	1.53
1	eK	62	HIS	CG-ND1	10.58	1.49	1.38
1	2k	176	GLN	CA-C	10.57	1.63	1.53
1	ft	206	GLY	C-N	-10.57	1.23	1.34
1	b0	206	GLY	C-N	10.57	1.43	1.33
1	aA	92	GLU	CA-C	10.56	1.64	1.53
1	23	51	ASP	CA-C	10.56	1.66	1.52
1	2c	85	PRO	CA-C	-10.55	1.42	1.52
1	j1	37	ILE	CA-C	10.55	1.62	1.52
1	7v	98	GLU	CA-C	10.55	1.66	1.52
1	U	92	GLU	CA-C	10.55	1.65	1.53
1	6w	37	ILE	CA-C	10.54	1.61	1.52
1	8I	124	ILE	CA-CB	-10.54	1.45	1.54
1	bu	168	PHE	CA-CB	10.54	1.69	1.53
1	bZ	124	ILE	CA-C	10.54	1.61	1.53
1	cK	226	HIS	CA-C	-10.54	1.39	1.52
1	cy	37	ILE	CA-CB	10.53	1.59	1.54
1	ip	125	PRO	CA-CB	10.53	1.61	1.53
1	6f	124	ILE	CA-C	10.52	1.61	1.53
1	2o	158	LYS	CA-CB	10.52	1.69	1.53
1	aG	124	ILE	CA-C	-10.52	1.44	1.53
1	9J	123	PRO	C-N	10.52	1.41	1.33
1	4z	195	ASN	CA-C	10.51	1.65	1.53
1	av	181	VAL	CA-CB	10.51	1.68	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	br	6	LEU	CA-C	10.51	1.66	1.53
1	aO	124	ILE	CA-C	10.51	1.64	1.52
1	iF	181	VAL	C-N	10.50	1.47	1.33
1	7z	190	LEU	C-N	10.50	1.45	1.34
1	7E	8	GLY	N-CA	10.50	1.52	1.44
1	C	176	GLN	CA-CB	10.49	1.69	1.53
1	gs	127	GLY	CA-C	10.49	1.64	1.52
1	cz	59	VAL	CA-C	10.49	1.64	1.52
1	6w	123	PRO	C-N	10.48	1.43	1.33
1	1r	61	GLY	N-CA	10.47	1.55	1.44
1	7E	177	ALA	CA-C	10.47	1.66	1.52
1	ht	220	GLY	CA-C	10.47	1.62	1.52
1	6Q	133	TRP	N-CA	10.47	1.59	1.46
1	co	9	GLN	N-CA	-10.47	1.33	1.46
1	7M	92	GLU	CA-C	10.46	1.66	1.52
1	aA	37	ILE	CA-CB	-10.46	1.48	1.54
1	ho	12	HIS	CB-CG	10.46	1.64	1.50
1	kM	124	ILE	N-CA	-10.46	1.38	1.46
1	ao	37	ILE	CA-C	10.46	1.62	1.52
1	Z	188	THR	CA-C	-10.45	1.45	1.52
1	7Z	141	ILE	CA-C	10.45	1.65	1.52
1	f2	84	HIS	C-O	-10.45	1.16	1.25
1	hv	161	PHE	CA-CB	10.45	1.68	1.53
1	iM	73	ILE	CA-C	10.44	1.66	1.52
1	fZ	30	LYS	C-N	10.44	1.44	1.32
1	ji	99	PRO	CA-C	10.43	1.64	1.52
1	dW	226	HIS	N-CA	10.43	1.58	1.46
1	6g	61	GLY	CA-C	-10.43	1.41	1.52
1	94	84	HIS	ND1-CE1	10.43	1.43	1.32
1	4s	124	ILE	CA-C	10.41	1.61	1.53
1	ln	124	ILE	CA-CB	10.40	1.63	1.54
1	dX	61	GLY	CA-C	-10.40	1.40	1.52
1	2L	32	PHE	CA-CB	10.40	1.66	1.52
1	aB	96	MET	CA-C	10.39	1.66	1.52
1	gg	37	ILE	CA-C	10.39	1.63	1.52
1	iX	115	ILE	C-N	10.38	1.46	1.33
1	8g	204	ALA	CA-C	10.38	1.62	1.53
1	jg	54	THR	CA-C	-10.38	1.39	1.52
1	gx	52	LEU	N-CA	-10.38	1.34	1.46
1	7K	129	ILE	CA-CB	10.37	1.66	1.54
1	jx	217	ALA	CA-C	10.37	1.65	1.52
1	aN	172	LEU	CA-C	10.37	1.66	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1c	42	ALA	N-CA	10.37	1.58	1.46
1	ip	224	PRO	C-N	10.36	1.41	1.33
1	2S	184	TRP	NE1-CE2	-10.36	1.26	1.37
1	ag	87	HIS	CG-CD2	10.36	1.47	1.35
1	9i	30	LYS	CA-C	-10.36	1.39	1.52
1	hm	218	CYS	CA-CB	10.36	1.68	1.53
1	31	91	ILE	CA-C	-10.35	1.43	1.53
1	7J	126	VAL	N-CA	-10.35	1.34	1.46
1	9K	85	PRO	CA-CB	-10.35	1.46	1.53
1	lP	47	ALA	CA-C	10.35	1.65	1.52
1	2i	37	ILE	CA-CB	10.35	1.59	1.54
1	h9	120	HIS	ND1-CE1	10.34	1.42	1.32
1	dv	37	ILE	CA-CB	-10.34	1.46	1.53
1	bP	222	GLY	CA-C	-10.34	1.41	1.52
1	gU	223	GLY	N-CA	10.34	1.58	1.44
1	ij	203	LYS	CA-C	-10.34	1.39	1.52
1	km	37	ILE	CA-CB	10.33	1.60	1.53
1	9z	63	GLN	CA-C	-10.33	1.38	1.52
1	iZ	124	ILE	N-CA	-10.33	1.38	1.46
1	4F	172	LEU	CA-C	-10.33	1.39	1.52
1	5r	12	HIS	ND1-CE1	10.33	1.42	1.32
1	8K	171	THR	CA-C	10.32	1.66	1.52
1	gj	58	THR	CA-C	-10.32	1.39	1.52
1	3s	15	ILE	CA-CB	10.31	1.64	1.54
1	8C	160	PRO	CA-CB	10.31	1.65	1.54
1	j8	86	VAL	CA-CB	-10.31	1.41	1.54
1	8w	195	ASN	CA-C	10.31	1.63	1.53
1	bZ	12	HIS	CB-CG	10.30	1.64	1.50
1	3w	37	ILE	CA-CB	-10.29	1.49	1.54
1	5n	107	THR	CA-C	-10.29	1.45	1.52
1	3g	184	TRP	CA-C	10.28	1.66	1.52
1	k9	137	GLY	N-CA	10.28	1.58	1.45
1	6M	37	ILE	CA-CB	10.27	1.59	1.54
1	lf	114	GLN	CA-C	-10.27	1.39	1.52
1	1u	9	GLN	CA-C	10.27	1.59	1.53
1	fW	89	GLY	C-N	-10.26	1.21	1.33
1	hV	152	ASP	CA-C	-10.25	1.42	1.53
1	kt	17	PRO	N-CA	-10.25	1.39	1.47
1	gE	124	ILE	N-CA	10.25	1.54	1.46
1	k8	37	ILE	CA-CB	-10.25	1.48	1.54
1	b8	55	MET	CA-CB	10.25	1.69	1.53
1	gE	3	VAL	CA-C	-10.24	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gJ	84	HIS	ND1-CE1	10.24	1.42	1.32
1	e5	155	GLN	CA-C	-10.23	1.39	1.52
1	cd	15	ILE	CA-CB	10.23	1.66	1.54
1	4O	124	ILE	CA-C	-10.22	1.43	1.52
1	d	104	ILE	N-CA	10.22	1.58	1.46
1	b5	37	ILE	CA-CB	-10.21	1.48	1.54
1	51	37	ILE	CA-C	10.21	1.63	1.52
1	5s	123	PRO	C-N	10.21	1.43	1.33
1	aI	124	ILE	CA-C	-10.21	1.44	1.53
1	aG	37	ILE	CA-CB	-10.20	1.47	1.53
1	ia	194	ALA	CA-CB	10.20	1.69	1.53
1	hr	156	GLY	C-N	10.19	1.42	1.33
1	j1	37	ILE	CA-CB	-10.19	1.48	1.54
1	iP	87	HIS	CA-CB	10.19	1.69	1.53
1	jL	49	PRO	CA-C	10.19	1.67	1.52
1	dp	3	VAL	CA-C	10.19	1.65	1.52
1	kl	123	PRO	CA-C	-10.19	1.42	1.52
1	8l	124	ILE	CA-C	10.19	1.61	1.53
1	ad	99	PRO	CA-CB	10.19	1.66	1.53
1	ao	140	LYS	CA-C	10.18	1.66	1.52
1	aE	117	TRP	NE1-CE2	-10.18	1.26	1.37
1	2b	222	GLY	N-CA	10.18	1.54	1.45
1	fN	188	THR	CA-C	-10.17	1.47	1.52
1	l	48	THR	C-N	-10.17	1.21	1.34
1	1Z	16	SER	C-N	10.16	1.44	1.34
1	5l	12	HIS	CA-C	-10.16	1.40	1.52
1	e0	141	ILE	CA-C	10.16	1.65	1.52
1	6x	34	PRO	CA-C	10.16	1.62	1.52
1	aD	26	VAL	CA-CB	-10.16	1.42	1.54
1	e2	1	PRO	N-CD	10.16	1.61	1.47
1	eu	209	ALA	CA-C	10.16	1.66	1.52
1	fL	142	VAL	CA-CB	-10.16	1.41	1.54
1	7z	39	MET	C-N	10.16	1.46	1.33
1	cN	146	SER	C-N	-10.16	1.21	1.33
1	6c	16	SER	CA-C	10.15	1.64	1.52
1	6e	159	GLU	CA-C	10.15	1.65	1.53
1	3U	37	ILE	CA-CB	10.15	1.59	1.54
1	gJ	123	PRO	C-N	10.14	1.42	1.33
1	6T	37	ILE	CA-CB	-10.14	1.49	1.54
1	9h	124	ILE	CA-C	10.14	1.61	1.53
1	eo	125	PRO	CA-CB	10.14	1.63	1.53
1	gF	82	ARG	CA-CB	10.13	1.69	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5k	132	ARG	CD-NE	10.13	1.60	1.46
1	78	37	ILE	CA-CB	-10.13	1.48	1.54
1	6A	161	PHE	CA-C	10.13	1.65	1.52
1	cl	37	ILE	CA-CB	-10.12	1.48	1.54
1	1	99	PRO	CA-C	10.12	1.62	1.52
1	gS	18	ARG	N-CA	-10.12	1.34	1.46
1	f0	37	ILE	CA-CB	10.12	1.60	1.53
1	l2	226	HIS	CA-CB	10.12	1.63	1.53
1	6k	78	ALA	CA-C	10.12	1.66	1.52
1	9u	84	HIS	N-CA	-10.12	1.36	1.46
1	j5	100	ARG	CD-NE	10.11	1.60	1.46
1	5u	137	GLY	C-N	10.11	1.46	1.33
1	fE	62	HIS	CE1-NE2	10.11	1.42	1.32
1	Z	86	VAL	CA-C	10.11	1.64	1.52
1	dG	181	VAL	CA-CB	10.11	1.66	1.54
1	iW	37	ILE	CA-CB	10.10	1.59	1.54
1	8f	33	SER	CA-C	10.10	1.61	1.52
1	4c	85	PRO	CA-C	-10.10	1.40	1.52
1	4D	140	LYS	C-N	10.10	1.46	1.33
1	2S	124	ILE	CA-C	10.09	1.61	1.53
1	9S	97	ARG	N-CA	-10.09	1.32	1.45
1	af	12	HIS	ND1-CE1	10.08	1.42	1.32
1	aQ	32	PHE	CA-C	-10.08	1.39	1.52
1	du	37	ILE	CA-C	10.08	1.61	1.52
1	69	42	ALA	CA-C	-10.08	1.39	1.52
1	6i	84	HIS	ND1-CE1	10.08	1.42	1.32
1	dQ	62	HIS	CE1-NE2	10.08	1.42	1.32
1	e8	3	VAL	C-N	10.08	1.47	1.33
1	4j	37	ILE	CA-CB	10.07	1.59	1.54
1	e6	37	ILE	CA-CB	10.07	1.59	1.54
1	3F	80	TRP	NE1-CE2	-10.07	1.26	1.37
1	5S	134	ILE	C-N	10.07	1.46	1.33
1	9A	101	GLY	CA-C	-10.07	1.40	1.52
1	9O	71	GLU	CA-CB	10.07	1.69	1.53
1	cs	190	LEU	C-N	10.07	1.46	1.33
1	bV	37	ILE	CA-CB	-10.07	1.49	1.54
1	3S	110	THR	CA-C	10.07	1.65	1.52
1	4d	1	PRO	N-CD	10.06	1.61	1.47
1	1D	72	THR	N-CA	10.06	1.58	1.46
1	5l	30	LYS	N-CA	-10.06	1.37	1.46
1	cj	218	CYS	CA-CB	10.06	1.67	1.53
1	90	37	ILE	CA-C	10.05	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ev	37	ILE	C-N	10.05	1.46	1.34
1	1m	198	CYS	C-N	10.04	1.47	1.33
1	f9	33	SER	CA-C	10.04	1.66	1.53
1	bS	153	ILE	CA-CB	-10.03	1.42	1.54
1	c2	134	ILE	CA-C	-10.03	1.41	1.52
1	19	188	THR	CA-C	10.03	1.58	1.52
1	1d	32	PHE	CA-CB	10.03	1.68	1.53
1	dD	174	ALA	CA-CB	10.03	1.65	1.53
1	7	3	VAL	CA-C	10.02	1.63	1.52
1	kk	87	HIS	ND1-CE1	10.02	1.42	1.32
1	20	133	TRP	N-CA	-10.02	1.33	1.46
1	7k	104	ILE	CA-C	10.02	1.67	1.52
1	8J	165	VAL	CA-CB	-10.02	1.42	1.54
1	fc	185	MET	CA-C	-10.02	1.39	1.52
1	7j	226	HIS	ND1-CE1	10.01	1.42	1.32
1	dd	171	THR	N-CA	10.01	1.58	1.46
1	3X	124	ILE	N-CA	-10.01	1.38	1.46
1	eu	165	VAL	N-CA	10.01	1.59	1.46
1	fn	224	PRO	CA-C	10.01	1.65	1.52
1	fI	22	ALA	C-N	10.01	1.47	1.33
1	i5	109	SER	CA-C	-10.01	1.40	1.52
1	dA	37	ILE	CA-CB	-10.01	1.49	1.54
1	hC	121	ASN	CA-C	-10.00	1.41	1.52
1	52	179	GLN	N-CA	-10.00	1.34	1.46
1	h0	229	ARG	C-N	10.00	1.48	1.33
1	8s	214	MET	CA-C	9.99	1.65	1.52
1	bb	205	LEU	CA-C	-9.99	1.38	1.52
1	ga	16	SER	CA-C	9.99	1.63	1.52
1	7j	37	ILE	CA-C	9.99	1.61	1.52
1	dR	160	PRO	CA-CB	9.99	1.59	1.53
1	7H	21	ASN	CA-CB	9.98	1.68	1.53
1	8r	121	ASN	CA-C	9.98	1.63	1.52
1	g1	201	ILE	C-N	9.98	1.47	1.33
1	bH	195	ASN	CA-C	9.98	1.64	1.53
1	hY	123	PRO	C-N	9.98	1.41	1.33
1	54	3	VAL	CA-C	-9.98	1.40	1.52
1	2R	212	GLU	N-CA	-9.98	1.34	1.46
1	3y	13	GLN	CA-C	-9.97	1.40	1.52
1	9t	3	VAL	CA-C	-9.97	1.40	1.52
1	9G	117	TRP	NE1-CE2	-9.97	1.26	1.37
1	aX	120	HIS	CB-CG	-9.97	1.36	1.50
1	jI	42	ALA	CA-C	9.97	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3g	101	GLY	CA-C	-9.97	1.40	1.51
1	5	54	THR	C-O	-9.97	1.12	1.24
1	l0	98	GLU	C-N	9.96	1.45	1.33
1	fa	91	ILE	CA-C	9.97	1.64	1.52
1	8U	124	ILE	CA-C	9.96	1.61	1.53
1	6	97	ARG	N-CA	9.96	1.58	1.45
1	b2	101	GLY	CA-C	-9.96	1.41	1.52
1	3z	182	LYS	CA-C	9.96	1.66	1.52
1	4w	104	ILE	CA-C	9.95	1.65	1.52
1	5C	115	ILE	CA-CB	9.95	1.65	1.54
1	97	153	ILE	CA-C	9.95	1.64	1.52
1	ab	37	ILE	CA-CB	9.95	1.60	1.53
1	li	169	TYR	CA-C	-9.94	1.39	1.52
1	4g	141	ILE	N-CA	9.94	1.57	1.46
1	he	125	PRO	CA-CB	9.94	1.59	1.53
1	fn	102	SER	CA-C	9.94	1.66	1.52
1	iX	124	ILE	CA-C	9.94	1.61	1.53
1	iZ	85	PRO	CA-C	9.94	1.64	1.52
1	4T	13	GLN	CA-C	9.93	1.64	1.52
1	by	2	ILE	CA-C	-9.93	1.40	1.52
1	8u	222	GLY	CA-C	-9.93	1.40	1.52
1	lA	33	SER	CA-C	9.93	1.65	1.52
1	cz	155	GLN	N-CA	-9.92	1.34	1.46
1	4f	207	PRO	CA-C	9.92	1.61	1.52
1	4A	45	GLU	C-N	9.92	1.44	1.33
1	H	154	ARG	CA-C	9.92	1.64	1.52
1	56	92	GLU	CA-C	9.92	1.64	1.53
1	iM	182	LYS	N-CA	-9.91	1.34	1.46
1	9Y	180	GLU	CA-C	9.91	1.65	1.52
1	jb	153	ILE	CA-CB	-9.91	1.44	1.54
1	hT	37	ILE	CA-CB	-9.91	1.49	1.54
1	dK	123	PRO	C-N	9.91	1.41	1.33
1	5T	183	ASN	CA-C	9.90	1.65	1.52
1	hQ	24	VAL	CA-CB	-9.90	1.42	1.54
1	6c	37	ILE	CA-C	9.90	1.63	1.52
1	41	37	ILE	CA-CB	9.90	1.59	1.54
1	5I	15	ILE	CA-CB	9.90	1.64	1.54
1	lg	117	TRP	CA-C	9.88	1.66	1.52
1	aT	75	GLU	CA-CB	9.88	1.69	1.53
1	jb	36	VAL	CA-C	-9.88	1.40	1.52
1	7K	71	GLU	CA-C	-9.88	1.40	1.52
1	el	123	PRO	C-N	9.87	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7u	152	ASP	C-N	9.87	1.45	1.33
1	jR	37	ILE	CA-C	9.87	1.61	1.52
1	4J	44	SER	C-O	-9.86	1.16	1.23
1	8V	99	PRO	CA-C	9.86	1.64	1.52
1	lc	23	TRP	CA-C	-9.85	1.40	1.52
1	3K	37	ILE	CA-CB	-9.85	1.49	1.54
1	fT	7	GLN	N-CA	-9.85	1.34	1.46
1	it	37	ILE	CA-C	9.85	1.61	1.52
1	fZ	124	ILE	N-CA	-9.85	1.38	1.46
1	V	73	ILE	N-CA	9.84	1.58	1.46
1	6H	123	PRO	CA-CB	9.84	1.66	1.53
1	4u	117	TRP	NE1-CE2	-9.84	1.26	1.37
1	8C	85	PRO	CA-C	-9.84	1.42	1.53
1	fr	127	GLY	CA-C	9.84	1.62	1.52
1	j3	23	TRP	CA-C	-9.83	1.40	1.52
1	4o	87	HIS	ND1-CE1	9.83	1.42	1.32
1	f4	147	PRO	CA-C	-9.83	1.41	1.52
1	cx	112	GLN	CA-C	9.83	1.67	1.52
1	6e	181	VAL	CA-C	9.82	1.64	1.52
1	8q	37	ILE	CA-CB	9.82	1.59	1.54
1	dD	32	PHE	CA-CB	9.82	1.65	1.53
1	hl	37	ILE	CA-C	9.82	1.61	1.52
1	2Z	87	HIS	ND1-CE1	9.82	1.42	1.32
1	kk	37	ILE	CA-CB	9.82	1.60	1.53
1	hJ	87	HIS	ND1-CE1	9.81	1.42	1.32
1	gg	196	PRO	CA-C	9.81	1.66	1.52
1	3p	189	LEU	CA-CB	9.81	1.67	1.53
1	5Z	120	HIS	ND1-CE1	9.81	1.42	1.32
1	c4	87	HIS	C-N	9.81	1.46	1.33
1	eV	123	PRO	C-N	9.81	1.42	1.33
1	56	100	ARG	CA-C	9.80	1.64	1.52
1	64	163	ASP	CA-C	9.80	1.65	1.52
1	dX	101	GLY	CA-C	-9.80	1.41	1.52
1	ey	146	SER	CA-C	9.80	1.63	1.52
1	ih	88	ALA	N-CA	-9.80	1.33	1.45
1	kQ	37	ILE	CA-C	9.80	1.61	1.52
1	iE	120	HIS	C-N	9.80	1.45	1.33
1	4F	16	SER	CA-C	9.79	1.63	1.53
1	58	23	TRP	N-CA	-9.79	1.34	1.46
1	e2	12	HIS	ND1-CE1	9.79	1.42	1.32
1	fz	87	HIS	ND1-CE1	9.79	1.42	1.32
1	7H	165	VAL	C-O	-9.79	1.12	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jF	206	GLY	C-N	9.79	1.43	1.34
1	6f	90	PRO	C-N	-9.79	1.23	1.33
1	bu	23	TRP	N-CA	-9.79	1.34	1.46
1	1F	124	ILE	CA-CB	-9.79	1.43	1.53
1	ec	224	PRO	CA-C	9.79	1.66	1.52
1	61	37	ILE	CA-CB	-9.78	1.49	1.54
1	bo	125	PRO	N-CA	9.79	1.54	1.47
1	c0	226	HIS	ND1-CE1	9.78	1.42	1.32
1	cm	71	GLU	C-N	9.78	1.46	1.33
1	dZ	37	ILE	CA-CB	9.79	1.59	1.54
1	1Q	146	SER	C-N	9.78	1.46	1.34
1	kF	207	PRO	CA-C	9.78	1.63	1.52
1	1o	3	VAL	CA-CB	-9.78	1.41	1.54
1	dG	123	PRO	CA-CB	-9.78	1.40	1.53
1	6O	33	SER	N-CA	9.78	1.52	1.46
1	bM	134	ILE	CA-CB	-9.78	1.43	1.54
1	11	116	GLY	CA-C	-9.78	1.41	1.52
1	7Z	84	HIS	ND1-CE1	9.77	1.42	1.32
1	lN	63	GLN	CA-CB	9.77	1.68	1.53
1	hB	189	LEU	CA-C	-9.76	1.44	1.52
1	3c	121	ASN	CA-C	9.76	1.60	1.52
1	8t	12	HIS	ND1-CE1	9.76	1.42	1.32
1	ad	124	ILE	CA-C	-9.76	1.44	1.52
1	ff	124	ILE	CA-CB	-9.76	1.45	1.54
1	lm	150	ILE	CA-C	-9.75	1.40	1.52
1	3J	219	GLN	CA-C	9.75	1.64	1.52
1	5h	84	HIS	ND1-CE1	9.75	1.42	1.32
1	70	50	GLN	N-CA	9.75	1.57	1.46
1	ee	2	ILE	C-N	9.75	1.45	1.33
1	4f	34	PRO	CA-C	9.74	1.61	1.52
1	cp	226	HIS	CD2-NE2	9.74	1.48	1.37
1	d6	4	GLN	C-N	9.74	1.46	1.33
1	hD	195	ASN	CA-C	9.74	1.63	1.53
1	ik	134	ILE	CA-C	-9.73	1.41	1.52
1	9o	26	VAL	CA-C	9.73	1.64	1.52
1	eT	1	PRO	N-CD	9.72	1.61	1.47
1	eY	24	VAL	CA-C	9.72	1.64	1.52
1	1J	121	ASN	CA-C	9.72	1.64	1.52
1	cd	128	GLU	CA-C	-9.71	1.40	1.52
1	6s	161	PHE	CA-C	9.71	1.65	1.52
1	aW	23	TRP	NE1-CE2	-9.71	1.26	1.37
1	ap	37	ILE	CA-CB	-9.71	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k8	83	LEU	C-N	9.70	1.43	1.33
1	5c	211	LEU	CA-C	-9.70	1.40	1.52
1	5C	146	SER	C-O	-9.70	1.17	1.25
1	6V	214	MET	CA-C	9.70	1.65	1.52
1	8E	189	LEU	CA-CB	9.70	1.68	1.53
1	bV	17	PRO	C-N	9.70	1.47	1.33
1	li	120	HIS	ND1-CE1	9.70	1.42	1.32
1	ih	99	PRO	CA-C	9.69	1.64	1.52
1	7c	166	ASP	C-N	9.70	1.47	1.33
1	dP	110	THR	CA-C	9.70	1.64	1.52
1	4g	120	HIS	C-N	9.69	1.43	1.33
1	4Q	189	LEU	N-CA	9.69	1.58	1.46
1	y	146	SER	C-N	-9.69	1.25	1.33
1	jX	37	ILE	CA-C	9.69	1.63	1.52
1	8e	87	HIS	ND1-CE1	9.69	1.42	1.32
1	1F	177	ALA	CA-C	9.68	1.65	1.52
1	34	62	HIS	CE1-NE2	9.68	1.42	1.32
1	bx	146	SER	C-N	-9.68	1.25	1.33
1	bI	203	LYS	CA-C	9.68	1.59	1.52
1	cs	9	GLN	CA-C	9.68	1.64	1.53
1	a	87	HIS	ND1-CE1	9.68	1.42	1.32
1	gY	23	TRP	NE1-CE2	-9.68	1.26	1.37
1	jd	195	ASN	CA-C	9.68	1.65	1.52
1	27	153	ILE	CA-C	-9.67	1.41	1.52
1	hj	87	HIS	ND1-CE1	9.67	1.42	1.32
1	jk	48	THR	CA-C	9.67	1.65	1.53
1	eJ	221	VAL	CA-C	9.67	1.65	1.52
1	kB	186	THR	N-CA	9.67	1.58	1.46
1	1o	87	HIS	ND1-CE1	9.67	1.42	1.32
1	5L	36	VAL	CA-CB	9.66	1.66	1.54
1	cV	12	HIS	ND1-CE1	9.66	1.42	1.32
1	kJ	229	ARG	C-N	9.66	1.46	1.33
1	50	191	VAL	CA-CB	-9.66	1.42	1.54
1	aX	219	GLN	C-N	9.66	1.43	1.33
1	cI	21	ASN	CA-CB	9.66	1.68	1.53
1	3A	37	ILE	CA-C	9.66	1.60	1.52
1	iD	37	ILE	CA-C	9.66	1.60	1.52
1	iW	61	GLY	N-CA	9.66	1.52	1.44
1	8A	98	GLU	CA-C	9.66	1.64	1.52
1	gK	40	PHE	CA-C	9.65	1.65	1.52
1	aQ	80	TRP	NE1-CE2	-9.65	1.26	1.37
1	c	37	ILE	CA-C	9.65	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iq	53	ASN	C-N	9.65	1.46	1.33
1	9n	37	ILE	CA-C	9.65	1.61	1.52
1	W	131	LYS	CA-C	9.65	1.65	1.52
1	70	2	ILE	CA-C	9.65	1.63	1.52
1	7O	37	ILE	CA-C	-9.65	1.43	1.52
1	8W	84	HIS	CA-CB	9.65	1.67	1.53
1	1V	37	ILE	CA-C	9.64	1.63	1.52
1	3S	84	HIS	CA-C	9.64	1.62	1.52
1	3m	173	ARG	CA-C	-9.64	1.40	1.52
1	5v	120	HIS	ND1-CE1	9.64	1.42	1.32
1	5W	195	ASN	CA-C	9.64	1.63	1.53
1	3H	62	HIS	CE1-NE2	9.64	1.42	1.32
1	63	162	ARG	CD-NE	9.64	1.59	1.46
1	72	230	VAL	CA-C	9.63	1.65	1.52
1	cL	67	GLN	CA-C	9.63	1.65	1.52
1	9Q	83	LEU	CA-C	9.63	1.65	1.52
1	6M	12	HIS	ND1-CE1	9.63	1.42	1.32
1	ab	10	MET	CA-C	9.62	1.64	1.52
1	59	89	GLY	C-N	-9.62	1.22	1.33
1	6L	14	ALA	CA-C	9.62	1.64	1.52
1	v	33	SER	C-N	-9.62	1.25	1.33
1	l7	62	HIS	CE1-NE2	9.62	1.42	1.32
1	ci	33	SER	C-N	-9.62	1.26	1.33
1	cn	8	GLY	CA-C	9.62	1.61	1.51
1	5Z	212	GLU	CA-C	-9.62	1.39	1.52
1	74	212	GLU	N-CA	-9.62	1.34	1.46
1	2S	37	ILE	CA-CB	9.61	1.59	1.54
1	7X	154	ARG	CA-CB	9.61	1.66	1.53
1	em	162	ARG	CA-C	9.61	1.65	1.52
1	O	124	ILE	CA-C	9.61	1.60	1.53
1	bP	219	GLN	CA-C	-9.61	1.41	1.52
1	ef	146	SER	CA-C	9.61	1.59	1.53
1	f4	229	ARG	CD-NE	9.60	1.59	1.46
1	jr	23	TRP	NE1-CE2	-9.60	1.26	1.37
1	cK	12	HIS	ND1-CE1	9.60	1.42	1.32
1	k	124	ILE	N-CA	-9.60	1.39	1.46
1	1W	147	PRO	CA-C	9.59	1.61	1.52
1	5g	36	VAL	C-N	9.59	1.44	1.33
1	cS	59	VAL	CA-C	9.59	1.64	1.52
1	7d	98	GLU	CA-C	9.59	1.60	1.52
1	aI	69	LEU	CA-CB	9.59	1.68	1.53
1	dr	147	PRO	CA-C	9.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	47	87	HIS	CB-CG	9.59	1.63	1.50
1	cT	43	LEU	N-CA	9.59	1.58	1.46
1	cY	229	ARG	CA-C	9.59	1.65	1.52
1	kQ	87	HIS	ND1-CE1	9.58	1.42	1.32
1	4T	120	HIS	C-N	9.58	1.43	1.33
1	cX	30	LYS	N-CA	9.58	1.56	1.46
1	9t	213	GLU	N-CA	-9.58	1.34	1.46
1	ar	60	GLY	CA-C	-9.58	1.38	1.51
1	e6	91	ILE	CA-C	9.58	1.64	1.52
1	4J	21	ASN	N-CA	-9.58	1.34	1.46
1	dV	40	PHE	CA-CB	9.58	1.68	1.53
1	f5	62	HIS	CE1-NE2	9.58	1.42	1.32
1	k3	41	SER	CA-C	9.57	1.65	1.52
1	kM	86	VAL	CA-C	9.57	1.63	1.52
1	5K	110	THR	CA-C	-9.57	1.40	1.52
1	6Y	133	TRP	N-CA	-9.57	1.34	1.46
1	7r	175	GLU	CA-C	9.57	1.64	1.52
1	c5	173	ARG	CA-CB	9.57	1.68	1.53
1	3o	80	TRP	NE1-CE2	-9.57	1.26	1.37
1	gF	84	HIS	C-O	-9.57	1.17	1.25
1	hN	14	ALA	CA-C	9.56	1.64	1.52
1	lu	214	MET	N-CA	9.56	1.57	1.46
1	8o	15	ILE	CA-C	9.56	1.63	1.52
1	4n	37	ILE	CA-CB	9.56	1.59	1.54
1	80	216	THR	N-CA	9.56	1.58	1.46
1	av	188	THR	CA-C	-9.56	1.41	1.53
1	k7	213	GLU	N-CA	9.55	1.57	1.46
1	cr	109	SER	CA-C	9.55	1.64	1.52
1	dj	143	ARG	CA-C	-9.55	1.41	1.52
1	gR	215	MET	CA-C	9.55	1.66	1.52
1	kL	6	LEU	C-N	9.55	1.46	1.33
1	l3	158	LYS	CA-CB	9.55	1.68	1.53
1	2h	37	ILE	CA-CB	9.55	1.60	1.53
1	1W	226	HIS	ND1-CE1	9.55	1.42	1.32
1	3Z	145	TYR	CA-CB	9.55	1.69	1.53
1	bO	180	GLU	C-N	9.55	1.46	1.33
1	21	178	SER	CA-C	-9.54	1.41	1.52
1	c6	78	ALA	CA-C	9.55	1.65	1.52
1	eY	64	ALA	CA-C	9.55	1.65	1.52
1	7X	130	TYR	N-CA	-9.54	1.34	1.46
1	9I	150	ILE	CA-C	9.54	1.65	1.52
1	1T	31	ALA	CA-C	9.54	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9d	37	ILE	CA-CB	-9.54	1.49	1.54
1	bF	37	ILE	CA-CB	9.54	1.59	1.54
1	ju	103	ASP	C-N	9.54	1.45	1.33
1	3c	63	GLN	CA-CB	9.53	1.69	1.53
1	hR	169	TYR	CA-CB	9.53	1.68	1.53
1	js	10	MET	CA-C	9.53	1.64	1.52
1	km	77	ALA	CA-C	-9.53	1.40	1.52
1	6h	61	GLY	N-CA	9.53	1.57	1.44
1	ax	69	LEU	CA-C	9.53	1.65	1.52
1	4B	155	GLN	CA-CB	9.53	1.69	1.53
1	bA	61	GLY	CA-C	-9.53	1.41	1.52
1	cy	45	GLU	C-N	9.53	1.42	1.33
1	fE	114	GLN	C-N	9.53	1.45	1.33
1	1J	13	GLN	CA-C	9.52	1.64	1.52
1	kG	62	HIS	CE1-NE2	9.52	1.42	1.32
1	6r	123	PRO	C-N	9.52	1.41	1.33
1	Y	37	ILE	CA-CB	9.52	1.59	1.54
1	8p	219	GLN	C-N	9.52	1.43	1.33
1	lQ	125	PRO	CA-CB	9.51	1.62	1.53
1	ic	84	HIS	CA-C	9.51	1.63	1.52
1	9Z	166	ASP	N-CA	-9.51	1.34	1.46
1	fl	173	ARG	N-CA	9.51	1.57	1.46
1	i	15	ILE	CA-C	9.51	1.63	1.52
1	iv	40	PHE	CA-C	9.50	1.64	1.52
1	i0	101	GLY	CA-C	9.50	1.62	1.51
1	7c	87	HIS	CA-C	-9.50	1.41	1.52
1	iR	214	MET	CA-C	-9.50	1.40	1.52
1	62	124	ILE	CA-CB	-9.50	1.43	1.53
1	es	197	ASP	N-CA	-9.50	1.34	1.46
1	7O	124	ILE	CA-C	9.49	1.62	1.52
1	1l	184	TRP	NE1-CE2	-9.49	1.27	1.37
1	fE	216	THR	CA-C	9.49	1.66	1.52
1	ln	86	VAL	CA-CB	9.49	1.64	1.54
1	lr	58	THR	C-N	9.49	1.43	1.33
1	5T	19	THR	C-N	9.49	1.46	1.33
1	gm	37	ILE	CA-C	9.49	1.63	1.52
1	kE	37	ILE	CA-C	9.49	1.60	1.52
1	2J	120	HIS	ND1-CE1	9.49	1.42	1.32
1	lk	146	SER	C-N	9.49	1.41	1.33
1	2r	143	ARG	CA-CB	9.49	1.68	1.53
1	hI	187	GLU	CA-C	-9.48	1.40	1.52
1	6C	120	HIS	CB-CG	9.48	1.63	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9P	226	HIS	ND1-CE1	9.48	1.42	1.32
1	1k	16	SER	CA-C	9.48	1.63	1.53
1	7Y	15	ILE	CA-CB	9.48	1.64	1.54
1	8t	30	LYS	CA-C	9.48	1.65	1.52
1	9d	123	PRO	C-N	9.48	1.41	1.33
1	bv	195	ASN	CA-CB	9.48	1.67	1.53
1	1n	161	PHE	CA-CB	9.48	1.65	1.53
1	e9	25	LYS	N-CA	9.48	1.57	1.46
1	G	146	SER	C-N	9.48	1.46	1.33
1	6u	40	PHE	CA-CB	9.47	1.68	1.53
1	1I	26	VAL	CA-CB	9.47	1.65	1.54
1	3i	126	VAL	CA-CB	9.46	1.66	1.54
1	bQ	10	MET	CA-CB	9.46	1.65	1.53
1	jt	226	HIS	ND1-CE1	9.46	1.42	1.32
1	kg	37	ILE	CA-CB	9.46	1.58	1.54
1	cB	84	HIS	ND1-CE1	9.46	1.42	1.32
1	4E	135	ILE	CA-C	-9.46	1.41	1.52
1	8X	97	ARG	CA-C	9.46	1.64	1.52
1	g4	135	ILE	CA-C	9.46	1.64	1.52
1	ae	187	GLU	CA-C	-9.46	1.43	1.52
1	1j	188	THR	CA-C	-9.46	1.46	1.52
1	fl	12	HIS	CD2-NE2	9.46	1.48	1.37
1	gC	178	SER	CA-C	9.45	1.66	1.53
1	hB	121	ASN	CA-C	9.45	1.63	1.52
1	7N	160	PRO	C-N	9.45	1.45	1.33
1	dp	37	ILE	CA-CB	-9.45	1.49	1.54
1	iN	210	THR	CA-C	-9.45	1.41	1.52
1	5V	120	HIS	ND1-CE1	9.45	1.42	1.32
1	f5	11	VAL	C-O	-9.45	1.14	1.24
1	eq	98	GLU	C-N	9.45	1.44	1.33
1	jO	206	GLY	C-N	9.45	1.41	1.33
1	dd	21	ASN	CA-CB	9.45	1.68	1.53
1	dZ	120	HIS	ND1-CE1	9.45	1.42	1.32
1	I	62	HIS	CG-CD2	9.45	1.46	1.35
1	35	189	LEU	CA-C	9.44	1.65	1.52
1	d	80	TRP	NE1-CE2	-9.44	1.27	1.37
1	b1	37	ILE	CA-CB	9.44	1.59	1.54
1	6F	12	HIS	ND1-CE1	9.44	1.42	1.32
1	5c	170	LYS	CA-C	9.44	1.65	1.52
1	1o	40	PHE	N-CA	9.44	1.57	1.46
1	29	160	PRO	CA-CB	-9.44	1.40	1.53
1	1b	33	SER	CA-CB	9.43	1.68	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1W	131	LYS	CA-CB	9.43	1.68	1.53
1	iZ	28	GLU	CA-C	9.43	1.64	1.52
1	cT	12	HIS	ND1-CE1	9.43	1.42	1.32
1	n	75	GLU	N-CA	-9.43	1.35	1.46
1	iA	150	ILE	CA-C	9.42	1.66	1.52
1	jO	85	PRO	CA-CB	9.42	1.59	1.53
1	2Q	36	VAL	CA-CB	9.42	1.66	1.54
1	ft	82	ARG	CD-NE	9.42	1.59	1.46
1	l2	226	HIS	ND1-CE1	9.42	1.42	1.32
1	lg	124	ILE	N-CA	-9.42	1.38	1.46
1	3o	23	TRP	NE1-CE2	-9.42	1.27	1.37
1	dP	187	GLU	CA-C	9.42	1.64	1.52
1	1N	91	ILE	C-N	9.41	1.42	1.33
1	5S	61	GLY	CA-C	-9.41	1.42	1.52
1	c0	161	PHE	CA-C	9.41	1.64	1.52
1	1h	125	PRO	N-CA	9.41	1.54	1.47
1	f3	125	PRO	CA-CB	9.41	1.59	1.53
1	8V	80	TRP	NE1-CE2	-9.41	1.27	1.37
1	bq	191	VAL	C-N	9.41	1.45	1.33
1	fw	120	HIS	ND1-CE1	9.41	1.42	1.32
1	eu	12	HIS	ND1-CE1	9.41	1.42	1.32
1	3P	128	GLU	C-N	9.40	1.45	1.33
1	9U	12	HIS	ND1-CE1	9.40	1.42	1.32
1	iJ	61	GLY	CA-C	-9.40	1.43	1.52
1	hq	226	HIS	CA-CB	9.40	1.66	1.53
1	jO	88	ALA	CA-C	9.40	1.64	1.52
1	kU	62	HIS	CE1-NE2	9.40	1.42	1.32
1	8d	125	PRO	N-CA	9.40	1.54	1.47
1	fy	37	ILE	CA-C	9.40	1.61	1.52
1	23	123	PRO	C-N	9.40	1.41	1.32
1	bf	33	SER	N-CA	9.40	1.54	1.45
1	hm	52	LEU	CA-C	9.39	1.65	1.52
1	5l	121	ASN	CA-CB	9.39	1.64	1.53
1	aK	141	ILE	CA-CB	9.39	1.64	1.54
1	ej	132	ARG	CA-CB	9.39	1.68	1.53
1	94	37	ILE	CA-CB	9.39	1.59	1.54
1	dg	23	TRP	CA-CB	9.39	1.68	1.53
1	gh	6	LEU	CA-CB	9.39	1.67	1.53
1	1J	181	VAL	CA-C	9.39	1.64	1.52
1	55	10	MET	CA-C	9.39	1.64	1.52
1	8V	81	ASP	N-CA	9.39	1.58	1.46
1	1u	48	THR	CA-C	9.39	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jX	190	LEU	CA-CB	9.39	1.65	1.53
1	e0	12	HIS	ND1-CE1	9.38	1.42	1.32
1	9T	166	ASP	CA-C	9.38	1.65	1.52
1	ft	78	ALA	CA-C	9.38	1.64	1.52
1	64	35	GLU	N-CA	-9.38	1.32	1.46
1	jg	191	VAL	C-O	-9.38	1.14	1.24
1	ij	33	SER	CA-C	9.38	1.61	1.52
1	kD	16	SER	CA-C	9.38	1.63	1.53
1	1O	149	SER	N-CA	9.37	1.58	1.46
1	j0	134	ILE	N-CA	-9.38	1.35	1.46
1	9Z	179	GLN	CA-CB	9.38	1.68	1.53
1	es	84	HIS	ND1-CE1	9.38	1.42	1.32
1	gR	219	GLN	C-N	9.37	1.43	1.33
1	hf	90	PRO	CA-CB	9.37	1.66	1.53
1	5f	228	ALA	CA-C	-9.37	1.41	1.52
1	8h	139	ASN	N-CA	9.37	1.57	1.46
1	3A	33	SER	CA-CB	9.37	1.65	1.54
1	4r	11	VAL	CA-C	9.37	1.64	1.52
1	7S	1	PRO	N-CD	9.37	1.60	1.47
1	dj	47	ALA	CA-C	9.37	1.65	1.52
1	4h	84	HIS	ND1-CE1	9.37	1.42	1.32
1	9R	206	GLY	C-N	9.37	1.41	1.33
1	eg	105	ALA	CA-C	9.36	1.65	1.52
1	7D	123	PRO	C-N	9.36	1.44	1.33
1	7Q	125	PRO	CA-CB	9.36	1.59	1.53
1	aA	185	MET	C-O	-9.36	1.13	1.24
1	eR	219	GLN	CA-CB	9.36	1.64	1.53
1	u	180	GLU	C-N	9.36	1.45	1.33
1	kQ	92	GLU	CA-C	-9.35	1.40	1.52
1	io	15	ILE	CA-CB	-9.35	1.45	1.54
1	8h	45	GLU	C-N	9.35	1.42	1.33
1	hy	45	GLU	C-N	9.35	1.42	1.33
1	7D	39	MET	CA-C	9.35	1.65	1.52
1	ax	204	ALA	N-CA	-9.35	1.34	1.46
1	1I	62	HIS	CE1-NE2	9.35	1.41	1.32
1	6s	59	VAL	C-N	9.35	1.42	1.33
1	8t	221	VAL	N-CA	-9.35	1.35	1.46
1	9O	87	HIS	ND1-CE1	9.34	1.41	1.32
1	i9	202	LEU	N-CA	9.34	1.57	1.46
1	6h	124	ILE	CA-C	-9.34	1.43	1.52
1	6A	45	GLU	C-N	9.34	1.45	1.33
1	ar	89	GLY	N-CA	9.34	1.57	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cA	8	GLY	CA-C	-9.34	1.40	1.51
1	4l	27	VAL	CA-C	9.33	1.64	1.52
1	8b	126	VAL	CA-C	9.33	1.65	1.52
1	fm	92	GLU	N-CA	9.33	1.54	1.45
1	jf	159	GLU	CA-CB	9.33	1.67	1.53
1	lc	188	THR	CA-C	9.33	1.60	1.52
1	83	156	GLY	C-N	9.33	1.41	1.33
1	dw	87	HIS	ND1-CE1	9.32	1.41	1.32
1	6	72	THR	C-N	9.32	1.44	1.33
1	1U	18	ARG	CA-C	9.32	1.64	1.52
1	8X	212	GLU	CA-C	9.32	1.64	1.52
1	jX	199	LYS	CA-CB	9.32	1.67	1.53
1	kI	75	GLU	C-N	9.32	1.46	1.33
1	kO	51	ASP	CA-C	-9.32	1.41	1.52
1	9e	53	ASN	CA-CB	9.32	1.67	1.53
1	bT	230	VAL	CA-CB	-9.32	1.44	1.54
1	eC	37	ILE	CA-CB	-9.32	1.49	1.54
1	6J	91	ILE	CA-CB	-9.32	1.41	1.54
1	fw	84	HIS	CG-ND1	9.31	1.48	1.38
1	9	184	TRP	NE1-CE2	-9.31	1.27	1.37
1	kC	128	GLU	N-CA	-9.31	1.35	1.46
1	7k	226	HIS	ND1-CE1	9.31	1.41	1.32
1	e0	86	VAL	CA-C	9.31	1.64	1.52
1	20	139	ASN	N-CA	9.31	1.57	1.46
1	7r	152	ASP	CA-C	9.31	1.64	1.52
1	29	146	SER	C-N	9.31	1.41	1.33
1	1r	86	VAL	CA-C	-9.31	1.42	1.52
1	2t	5	ASN	CA-C	-9.30	1.39	1.52
1	84	34	PRO	C-N	9.30	1.46	1.34
1	a4	213	GLU	CA-CB	9.30	1.67	1.53
1	am	37	ILE	CA-CB	-9.30	1.49	1.54
1	as	33	SER	N-CA	-9.30	1.37	1.45
1	R	19	THR	CA-C	-9.30	1.41	1.52
1	iP	229	ARG	CA-CB	9.30	1.66	1.54
1	l8	37	ILE	CA-C	9.30	1.61	1.52
1	lh	37	ILE	CA-CB	9.30	1.60	1.53
1	d3	6	LEU	CA-C	9.30	1.64	1.52
1	hl	191	VAL	CA-CB	9.29	1.65	1.54
1	6H	37	ILE	CA-C	9.29	1.60	1.52
1	b7	59	VAL	CA-CB	9.29	1.64	1.54
1	1e	12	HIS	ND1-CE1	9.29	1.41	1.32
1	42	147	PRO	CA-C	9.29	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6f	107	THR	CA-C	9.29	1.64	1.52
1	bv	84	HIS	ND1-CE1	9.29	1.41	1.32
1	aW	12	HIS	ND1-CE1	9.29	1.41	1.32
1	T	193	ASN	CA-CB	9.29	1.67	1.53
1	dj	121	ASN	CA-C	9.29	1.60	1.52
1	5V	91	ILE	CA-CB	-9.28	1.43	1.53
1	7r	220	GLY	CA-C	-9.28	1.38	1.51
1	8R	34	PRO	N-CA	9.28	1.59	1.47
1	8S	226	HIS	ND1-CE1	9.28	1.41	1.32
1	jR	37	ILE	CA-CB	-9.28	1.47	1.53
1	cm	142	VAL	CA-CB	-9.27	1.42	1.54
1	4W	109	SER	CA-C	-9.27	1.41	1.52
1	53	184	TRP	CA-CB	9.27	1.67	1.53
1	aX	120	HIS	ND1-CE1	9.27	1.41	1.32
1	5L	16	SER	CA-C	9.27	1.65	1.53
1	eZ	44	SER	CA-C	9.27	1.64	1.52
1	E	140	LYS	CA-C	-9.27	1.40	1.52
1	iH	52	LEU	N-CA	9.27	1.57	1.46
1	jW	140	LYS	C-N	9.27	1.45	1.33
1	jx	198	CYS	CA-C	-9.26	1.40	1.52
1	3i	144	MET	N-CA	-9.26	1.35	1.46
1	5k	26	VAL	CA-C	9.26	1.64	1.52
1	5C	14	ALA	C-N	9.26	1.44	1.33
1	fX	118	MET	CA-C	9.26	1.65	1.52
1	jD	226	HIS	ND1-CE1	9.26	1.41	1.32
1	ac	99	PRO	C-N	9.26	1.46	1.33
1	kg	159	GLU	C-N	9.26	1.44	1.33
1	dx	146	SER	CA-C	9.26	1.64	1.52
1	ev	91	ILE	CA-CB	-9.26	1.44	1.54
1	eZ	80	TRP	CA-CB	9.26	1.67	1.53
1	U	84	HIS	C-N	-9.26	1.25	1.33
1	3c	62	HIS	CE1-NE2	9.25	1.41	1.32
1	c4	229	ARG	CA-C	9.25	1.63	1.52
1	33	12	HIS	ND1-CE1	9.25	1.41	1.32
1	3e	8	GLY	CA-C	-9.25	1.43	1.52
1	5x	199	LYS	N-CA	9.25	1.57	1.46
1	hQ	155	GLN	CA-C	-9.25	1.41	1.52
1	jr	226	HIS	CA-CB	9.25	1.64	1.53
1	az	86	VAL	CA-C	9.25	1.63	1.52
1	1B	181	VAL	CA-CB	-9.25	1.42	1.54
1	kk	45	GLU	CA-C	-9.25	1.40	1.52
1	7P	140	LYS	CA-CB	9.25	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9g	71	GLU	CA-CB	9.25	1.67	1.53
1	cx	80	TRP	N-CA	-9.24	1.35	1.46
1	fo	121	ASN	CA-C	9.24	1.62	1.52
1	c2	149	SER	C-N	9.24	1.45	1.33
1	5p	84	HIS	ND1-CE1	9.24	1.41	1.32
1	cV	123	PRO	C-N	9.24	1.41	1.33
1	2	214	MET	N-CA	9.24	1.57	1.46
1	d0	79	GLU	CA-CB	9.23	1.67	1.53
1	fu	128	GLU	N-CA	-9.23	1.35	1.46
1	2J	208	ALA	CA-C	-9.23	1.41	1.52
1	iZ	30	LYS	C-N	9.23	1.46	1.33
1	gT	85	PRO	CA-C	9.23	1.63	1.53
1	aX	123	PRO	C-N	9.23	1.43	1.33
1	bT	152	ASP	C-N	9.23	1.45	1.34
1	dQ	125	PRO	N-CA	-9.23	1.40	1.47
1	C	135	ILE	CA-CB	-9.22	1.42	1.54
1	lf	45	GLU	C-N	9.22	1.45	1.33
1	4f	39	MET	CA-C	9.22	1.64	1.52
1	5f	141	ILE	C-N	9.22	1.45	1.33
1	8P	51	ASP	N-CA	9.22	1.57	1.46
1	2H	92	GLU	CA-C	9.22	1.62	1.53
1	ca	177	ALA	CA-C	9.22	1.65	1.52
1	6J	230	VAL	CA-C	-9.22	1.44	1.53
1	bO	99	PRO	N-CA	-9.21	1.35	1.47
1	jw	127	GLY	CA-C	-9.21	1.40	1.51
1	49	117	TRP	NE1-CE2	-9.21	1.27	1.37
1	3B	71	GLU	CA-C	9.21	1.65	1.52
1	9E	12	HIS	ND1-CE1	9.21	1.41	1.32
1	ii	112	GLN	CA-C	9.21	1.64	1.52
1	2x	226	HIS	ND1-CE1	9.21	1.41	1.32
1	7F	125	PRO	CA-CB	-9.21	1.47	1.53
1	2W	171	THR	CA-C	9.20	1.64	1.52
1	dH	206	GLY	CA-C	9.20	1.65	1.51
1	k7	64	ALA	N-CA	-9.20	1.35	1.46
1	hV	109	SER	CA-C	-9.20	1.41	1.52
1	4D	109	SER	CA-C	-9.20	1.40	1.52
1	6x	6	LEU	CA-CB	9.19	1.68	1.53
1	89	130	TYR	CA-C	9.19	1.65	1.52
1	bB	182	LYS	CA-CB	9.20	1.68	1.53
1	1Y	90	PRO	CA-C	9.19	1.63	1.52
1	J	133	TRP	NE1-CE2	-9.19	1.27	1.37
1	gb	121	ASN	CA-C	9.19	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h0	188	THR	CA-C	-9.19	1.45	1.52
1	cj	12	HIS	ND1-CE1	9.19	1.41	1.32
1	dv	146	SER	N-CA	9.19	1.52	1.46
1	hw	131	LYS	CA-C	-9.19	1.40	1.52
1	1S	128	GLU	CA-C	9.18	1.64	1.52
1	lp	191	VAL	C-N	9.18	1.45	1.33
1	lJ	208	ALA	CA-CB	9.18	1.62	1.53
1	bD	90	PRO	CA-CB	9.18	1.59	1.53
1	n	84	HIS	C-O	9.18	1.28	1.23
1	gc	171	THR	CA-C	-9.18	1.41	1.52
1	88	12	HIS	ND1-CE1	9.18	1.41	1.32
1	jo	188	THR	CA-C	-9.18	1.40	1.52
1	bc	30	LYS	C-N	9.18	1.43	1.32
1	ix	29	GLU	CA-C	9.18	1.65	1.52
1	5a	23	TRP	NE1-CE2	-9.18	1.27	1.37
1	6x	37	ILE	CA-C	9.17	1.61	1.52
1	8j	123	PRO	CA-C	-9.17	1.43	1.52
1	a7	213	GLU	N-CA	-9.17	1.34	1.46
1	hg	104	ILE	CA-C	-9.17	1.41	1.52
1	2O	154	ARG	CD-NE	9.17	1.59	1.46
1	4F	132	ARG	N-CA	9.17	1.57	1.46
1	cA	124	ILE	N-CA	-9.17	1.38	1.46
1	8c	55	MET	N-CA	9.17	1.57	1.46
1	dw	26	VAL	CA-CB	-9.17	1.43	1.54
1	gF	210	THR	C-N	9.17	1.45	1.33
1	6x	134	ILE	N-CA	9.16	1.57	1.46
1	gY	124	ILE	CA-C	9.16	1.60	1.53
1	8u	69	LEU	CA-C	9.16	1.64	1.52
1	8i	143	ARG	CA-C	9.16	1.64	1.52
1	h5	13	GLN	N-CA	9.16	1.57	1.45
1	iD	73	ILE	CA-CB	-9.16	1.42	1.54
1	2Y	227	LYS	C-N	9.16	1.46	1.33
1	dh	175	GLU	N-CA	9.16	1.57	1.46
1	5k	92	GLU	CA-C	9.16	1.64	1.52
1	5y	186	THR	N-CA	9.16	1.58	1.46
1	7N	159	GLU	CA-C	9.16	1.63	1.52
1	8H	12	HIS	ND1-CE1	9.16	1.41	1.32
1	l7	37	ILE	CA-CB	9.15	1.59	1.54
1	4E	127	GLY	CA-C	-9.15	1.41	1.52
1	60	33	SER	CA-C	9.15	1.60	1.52
1	b7	143	ARG	CA-CB	9.15	1.67	1.53
1	9X	121	ASN	CA-C	9.15	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eH	179	GLN	N-CA	-9.15	1.35	1.46
1	kn	111	LEU	N-CA	-9.14	1.35	1.46
1	7S	41	SER	CA-C	-9.14	1.40	1.52
1	a6	87	HIS	ND1-CE1	9.14	1.41	1.32
1	9p	98	GLU	C-N	-9.14	1.23	1.33
1	fE	61	GLY	CA-C	-9.14	1.43	1.52
1	jX	66	MET	CA-C	-9.14	1.41	1.52
1	6n	166	ASP	CA-CB	9.14	1.67	1.53
1	dg	50	GLN	N-CA	-9.14	1.35	1.46
1	g5	200	THR	CA-C	-9.14	1.41	1.52
1	hD	87	HIS	CG-ND1	9.14	1.48	1.38
1	jB	95	GLN	CA-C	-9.14	1.41	1.52
1	4j	129	ILE	CA-C	9.14	1.64	1.52
1	ho	153	ILE	CA-CB	9.13	1.63	1.53
1	2O	23	TRP	NE1-CE2	-9.13	1.27	1.37
1	1S	26	VAL	CA-CB	-9.13	1.44	1.54
1	3K	55	MET	CA-C	9.13	1.64	1.52
1	77	162	ARG	CA-C	9.13	1.65	1.52
1	6V	184	TRP	NE1-CE2	-9.13	1.27	1.37
1	l4	92	GLU	CA-C	9.13	1.62	1.53
1	4O	125	PRO	CA-C	-9.13	1.45	1.53
1	74	45	GLU	CA-CB	9.13	1.66	1.53
1	bR	37	ILE	CA-C	9.13	1.63	1.52
1	g3	229	ARG	CA-C	-9.13	1.41	1.52
1	lw	16	SER	C-N	9.12	1.45	1.34
1	73	22	ALA	N-CA	-9.12	1.35	1.46
1	8X	145	TYR	CA-C	9.12	1.65	1.52
1	cH	196	PRO	CA-C	-9.12	1.39	1.52
1	cQ	194	ALA	N-CA	9.12	1.57	1.46
1	df	119	THR	N-CA	-9.12	1.35	1.46
1	fl	127	GLY	CA-C	9.12	1.62	1.52
1	gu	124	ILE	CA-C	9.12	1.60	1.53
1	hC	226	HIS	CE1-NE2	-9.12	1.23	1.32
1	3M	45	GLU	CA-C	9.12	1.65	1.52
1	gO	66	MET	CA-C	9.12	1.64	1.52
1	46	12	HIS	CA-CB	9.12	1.67	1.53
1	6k	230	VAL	CA-CB	-9.12	1.43	1.54
1	fl	21	ASN	CA-CB	9.12	1.67	1.53
1	i5	105	ALA	C-N	9.12	1.46	1.33
1	df	94	GLY	N-CA	9.12	1.57	1.45
1	hk	221	VAL	N-CA	9.11	1.56	1.46
1	lv	37	ILE	CA-CB	-9.11	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	18	203	LYS	CA-CB	9.11	1.67	1.53
1	iz	124	ILE	CA-C	-9.11	1.45	1.53
1	6O	38	PRO	CA-C	9.11	1.65	1.52
1	9v	147	PRO	CA-C	-9.11	1.42	1.52
1	aW	120	HIS	CB-CG	-9.11	1.37	1.50
1	3c	224	PRO	N-CA	-9.11	1.40	1.47
1	bf	84	HIS	C-N	9.11	1.43	1.33
1	bQ	164	TYR	N-CA	-9.11	1.35	1.46
1	dY	45	GLU	CA-C	9.11	1.64	1.52
1	io	87	HIS	ND1-CE1	9.11	1.41	1.32
1	km	168	PHE	CA-C	-9.11	1.41	1.52
1	aj	116	GLY	CA-C	9.11	1.61	1.52
1	fH	111	LEU	C-N	9.11	1.45	1.33
1	7E	137	GLY	N-CA	9.11	1.57	1.45
1	2i	99	PRO	CA-CB	-9.10	1.42	1.53
1	44	68	MET	C-N	9.10	1.45	1.33
1	a1	226	HIS	ND1-CE1	9.10	1.41	1.32
1	2L	37	ILE	CA-C	9.10	1.62	1.52
1	5K	199	LYS	CA-CB	9.10	1.67	1.53
1	2z	13	GLN	N-CA	-9.10	1.34	1.46
1	59	229	ARG	C-N	9.10	1.44	1.33
1	ds	37	ILE	CA-CB	-9.10	1.47	1.53
1	o	121	ASN	CA-C	9.10	1.61	1.52
1	l1	225	GLY	C-O	-9.09	1.17	1.23
1	le	84	HIS	CA-C	9.09	1.62	1.52
1	5g	92	GLU	CA-C	9.09	1.64	1.53
1	6S	37	ILE	CA-CB	-9.09	1.47	1.53
1	3T	11	VAL	CA-CB	-9.09	1.42	1.54
1	aC	147	PRO	CA-CB	9.09	1.59	1.53
1	fd	159	GLU	CA-C	9.09	1.64	1.53
1	kc	137	GLY	CA-C	9.09	1.62	1.52
1	2D	125	PRO	N-CA	9.09	1.54	1.47
1	4o	37	ILE	CA-C	9.09	1.60	1.52
1	4B	172	LEU	CA-C	9.09	1.64	1.52
1	1A	16	SER	C-N	9.09	1.45	1.33
1	6l	203	LYS	CA-C	9.09	1.64	1.52
1	a5	125	PRO	CA-CB	9.09	1.60	1.53
1	lM	130	TYR	N-CA	-9.09	1.35	1.46
1	2S	93	PRO	CA-C	-9.09	1.39	1.52
1	4D	33	SER	CA-C	9.09	1.61	1.52
1	9C	99	PRO	CA-C	9.09	1.64	1.52
1	c7	149	SER	N-CA	9.09	1.57	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ce	116	GLY	CA-C	-9.09	1.41	1.52
1	dw	15	ILE	CA-C	9.09	1.62	1.52
1	i5	166	ASP	CA-C	-9.08	1.40	1.52
1	im	82	ARG	C-N	9.08	1.45	1.33
1	dx	50	GLN	CA-CB	9.08	1.67	1.53
1	3w	37	ILE	CA-C	9.08	1.62	1.52
1	7y	12	HIS	ND1-CE1	9.08	1.41	1.32
1	8v	26	VAL	CA-C	9.08	1.64	1.52
1	ba	209	ALA	N-CA	-9.08	1.35	1.45
1	i0	124	ILE	N-CA	-9.08	1.39	1.46
1	g1	127	GLY	CA-C	-9.08	1.41	1.52
1	d6	37	ILE	CA-CB	9.08	1.58	1.54
1	f9	15	ILE	CA-CB	9.07	1.63	1.54
1	1H	37	ILE	CA-C	9.07	1.61	1.52
1	89	27	VAL	N-CA	-9.07	1.35	1.46
1	3n	123	PRO	C-N	9.07	1.41	1.33
1	8z	84	HIS	CA-C	9.07	1.63	1.52
1	a7	143	ARG	NE-CZ	-9.07	1.23	1.33
1	i5	206	GLY	C-N	-9.07	1.25	1.33
1	j8	110	THR	C-N	9.07	1.45	1.33
1	k3	224	PRO	CA-CB	9.07	1.66	1.53
1	3Z	87	HIS	ND1-CE1	9.07	1.41	1.32
1	iH	86	VAL	CA-CB	-9.06	1.45	1.54
1	7s	84	HIS	ND1-CE1	9.06	1.41	1.32
1	em	219	GLN	N-CA	-9.06	1.35	1.46
1	eM	160	PRO	N-CA	-9.06	1.35	1.47
1	fU	92	GLU	CA-C	9.06	1.62	1.53
1	jM	226	HIS	ND1-CE1	9.06	1.41	1.32
1	kw	37	ILE	CA-CB	9.06	1.58	1.54
1	o	198	CYS	CA-C	9.06	1.64	1.52
1	8H	25	LYS	CA-C	9.06	1.64	1.52
1	aD	167	ARG	CD-NE	9.06	1.58	1.46
1	ej	198	CYS	C-N	9.06	1.46	1.34
1	f3	27	VAL	CA-CB	-9.06	1.43	1.54
1	2s	29	GLU	CA-C	9.06	1.64	1.52
1	8e	123	PRO	CA-CB	9.06	1.65	1.53
1	bG	120	HIS	ND1-CE1	9.05	1.41	1.32
1	iS	196	PRO	C-N	9.05	1.45	1.33
1	5k	114	GLN	N-CA	-9.05	1.35	1.46
1	7h	225	GLY	C-N	9.05	1.45	1.33
1	c4	155	GLN	N-CA	-9.05	1.35	1.46
1	4z	61	GLY	C-N	9.05	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gt	206	GLY	N-CA	9.05	1.57	1.44
1	9N	79	GLU	N-CA	-9.05	1.35	1.46
1	dC	37	ILE	CA-CB	9.05	1.59	1.54
1	dG	162	ARG	N-CA	-9.05	1.35	1.46
1	6q	62	HIS	CE1-NE2	9.05	1.41	1.32
1	91	153	ILE	CA-C	9.05	1.65	1.52
1	kg	62	HIS	CE1-NE2	9.05	1.41	1.32
1	2L	185	MET	CA-CB	9.05	1.67	1.53
1	iv	144	MET	CA-CB	9.05	1.67	1.53
1	40	124	ILE	CA-C	9.05	1.62	1.52
1	4m	166	ASP	CA-C	9.05	1.64	1.52
1	5m	225	GLY	CA-C	-9.05	1.42	1.51
1	c1	52	LEU	CA-CB	9.05	1.67	1.53
1	1o	162	ARG	CA-C	-9.04	1.40	1.52
1	en	124	ILE	CA-C	9.04	1.60	1.53
1	eE	33	SER	C-N	9.04	1.41	1.33
1	iP	116	GLY	CA-C	-9.04	1.42	1.52
1	bc	135	ILE	N-CA	9.04	1.57	1.46
1	R	121	ASN	CA-CB	9.04	1.65	1.53
1	ha	124	ILE	N-CA	9.04	1.53	1.46
1	1I	36	VAL	CA-CB	-9.04	1.43	1.54
1	l1	114	GLN	C-N	9.04	1.45	1.33
1	9c	114	GLN	CA-C	9.04	1.64	1.52
1	eJ	94	GLY	CA-C	-9.04	1.41	1.52
1	8s	2	ILE	CA-C	-9.04	1.40	1.52
1	ct	79	GLU	CA-CB	9.04	1.68	1.53
1	dp	221	VAL	CA-CB	9.04	1.64	1.55
1	fR	37	ILE	CA-CB	-9.04	1.49	1.54
1	hj	88	ALA	CA-C	9.04	1.63	1.52
1	aG	173	ARG	CD-NE	9.04	1.58	1.46
1	5J	210	THR	CA-C	-9.03	1.41	1.52
1	66	123	PRO	C-N	9.04	1.41	1.33
1	7X	93	PRO	N-CA	9.03	1.58	1.47
1	hO	180	GLU	CA-C	9.03	1.64	1.52
1	3U	175	GLU	N-CA	9.03	1.57	1.46
1	5D	201	ILE	CA-CB	-9.03	1.43	1.54
1	62	39	MET	N-CA	-9.03	1.35	1.46
1	3	84	HIS	CA-CB	9.03	1.60	1.52
1	bp	25	LYS	C-N	9.03	1.44	1.33
1	e8	158	LYS	CA-C	-9.03	1.40	1.52
1	49	98	GLU	CA-C	9.03	1.62	1.53
1	4d	138	LEU	CA-C	9.03	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ls	87	HIS	ND1-CE1	9.03	1.41	1.32
1	73	39	MET	CA-CB	9.03	1.67	1.53
1	a6	40	PHE	CA-C	9.03	1.64	1.52
1	2i	149	SER	C-N	9.02	1.41	1.33
1	3M	127	GLY	CA-C	-9.02	1.42	1.52
1	f7	99	PRO	CA-C	-9.02	1.41	1.52
1	eO	183	ASN	CA-C	-9.02	1.40	1.52
1	ki	37	ILE	CA-CB	-9.02	1.47	1.53
1	bJ	92	GLU	C-N	-9.02	1.25	1.33
1	lg	163	ASP	N-CA	9.02	1.57	1.46
1	69	123	PRO	C-N	-9.02	1.23	1.33
1	bx	186	THR	N-CA	9.02	1.57	1.46
1	e4	177	ALA	CA-C	-9.02	1.41	1.52
1	3V	87	HIS	ND1-CE1	9.01	1.41	1.32
1	4t	214	MET	CA-C	9.01	1.64	1.52
1	5A	62	HIS	CE1-NE2	9.01	1.41	1.32
1	6h	33	SER	CA-C	9.01	1.61	1.52
1	9u	173	ARG	CD-NE	9.01	1.58	1.46
1	a0	91	ILE	CA-C	-9.01	1.41	1.52
1	a3	24	VAL	CA-CB	9.01	1.66	1.54
1	a3	201	ILE	CA-C	9.01	1.63	1.52
1	am	98	GLU	C-N	9.01	1.43	1.33
1	1s	73	ILE	CA-C	9.01	1.64	1.52
1	2i	204	ALA	CA-C	9.01	1.64	1.52
1	fB	86	VAL	CA-C	9.01	1.64	1.52
1	bs	83	LEU	C-N	9.01	1.44	1.33
1	4N	207	PRO	CA-CB	9.01	1.66	1.53
1	6m	135	ILE	CA-CB	-9.01	1.44	1.54
1	b7	92	GLU	CA-C	9.01	1.62	1.53
1	cX	37	ILE	CA-CB	-9.01	1.49	1.54
1	kI	191	VAL	CA-CB	9.00	1.65	1.54
1	3K	159	GLU	CA-C	-9.00	1.43	1.52
1	bw	141	ILE	CA-CB	9.00	1.65	1.54
1	5g	184	TRP	CA-C	9.00	1.64	1.52
1	iD	120	HIS	CB-CG	9.00	1.62	1.50
1	2L	124	ILE	CA-C	9.00	1.60	1.52
1	2o	167	ARG	C-N	9.00	1.44	1.33
1	35	207	PRO	CA-C	9.00	1.61	1.52
1	dT	223	GLY	N-CA	9.00	1.54	1.43
1	f6	37	ILE	CA-C	9.00	1.62	1.52
1	9Y	138	LEU	CA-CB	9.00	1.67	1.53
1	hc	97	ARG	CD-NE	8.99	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hl	133	TRP	NE1-CE2	-8.99	1.27	1.37
1	lc	10	MET	CA-CB	8.99	1.66	1.53
1	3u	12	HIS	CA-CB	8.99	1.68	1.53
1	gi	84	HIS	N-CA	-8.99	1.36	1.46
1	3v	2	ILE	C-N	8.99	1.45	1.33
1	9J	84	HIS	C-O	-8.99	1.17	1.25
1	aj	103	ASP	CA-C	8.99	1.64	1.52
1	c5	2	ILE	C-O	-8.99	1.14	1.24
1	1c	59	VAL	CA-CB	-8.99	1.43	1.53
1	cD	190	LEU	CA-C	-8.99	1.41	1.52
1	cF	69	LEU	C-N	8.99	1.45	1.33
1	dG	160	PRO	CA-C	8.99	1.65	1.52
1	4S	72	THR	N-CA	8.99	1.57	1.46
1	8E	150	ILE	N-CA	8.99	1.57	1.46
1	hG	226	HIS	ND1-CE1	8.99	1.41	1.32
1	e5	226	HIS	ND1-CE1	8.99	1.41	1.32
1	5L	84	HIS	ND1-CE1	8.98	1.41	1.32
1	ii	84	HIS	CB-CG	-8.98	1.37	1.50
1	7N	73	ILE	CA-C	-8.98	1.41	1.52
1	eF	163	ASP	C-N	8.98	1.45	1.33
1	8c	146	SER	CA-CB	8.98	1.62	1.54
1	8y	223	GLY	N-CA	8.98	1.57	1.44
1	aE	15	ILE	CA-C	8.98	1.64	1.52
1	b	23	TRP	CA-C	8.98	1.64	1.52
1	iL	59	VAL	CA-C	8.98	1.63	1.52
1	kT	110	THR	N-CA	-8.98	1.35	1.45
1	6O	37	ILE	CA-C	8.98	1.60	1.52
1	2E	215	MET	CA-C	8.98	1.64	1.52
1	72	56	LEU	CA-C	-8.98	1.41	1.52
1	aG	62	HIS	CG-ND1	8.98	1.48	1.38
1	eE	180	GLU	CA-C	8.98	1.64	1.52
1	47	17	PRO	CA-CB	8.97	1.66	1.53
1	an	55	MET	CA-C	8.97	1.64	1.52
1	73	226	HIS	CE1-NE2	-8.97	1.23	1.32
1	eE	56	LEU	CA-CB	8.97	1.67	1.53
1	jn	226	HIS	ND1-CE1	8.97	1.41	1.32
1	jy	201	ILE	C-N	8.97	1.46	1.33
1	3T	212	GLU	N-CA	-8.97	1.35	1.46
1	75	33	SER	CA-C	8.97	1.64	1.52
1	7v	12	HIS	CB-CG	8.97	1.62	1.50
1	8v	175	GLU	C-N	8.97	1.45	1.33
1	8Q	84	HIS	CG-CD2	8.97	1.45	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d4	146	SER	CA-C	8.97	1.62	1.53
1	I	32	PHE	CA-C	8.97	1.64	1.53
1	gw	145	TYR	CA-CB	8.96	1.65	1.53
1	hZ	37	ILE	CA-C	8.97	1.62	1.52
1	1M	95	GLN	CA-CB	8.96	1.66	1.53
1	iZ	72	THR	CA-C	-8.96	1.41	1.52
1	ln	142	VAL	CA-CB	8.97	1.64	1.54
1	34	135	ILE	CA-CB	-8.96	1.43	1.54
1	4U	37	ILE	CA-CB	-8.97	1.49	1.54
1	5j	123	PRO	CA-C	8.97	1.63	1.52
1	7e	80	TRP	NE1-CE2	-8.96	1.27	1.37
1	0	165	VAL	CA-CB	8.96	1.65	1.54
1	c6	84	HIS	ND1-CE1	8.96	1.41	1.32
1	hj	12	HIS	ND1-CE1	8.96	1.41	1.32
1	lP	16	SER	CA-C	-8.96	1.44	1.53
1	3P	84	HIS	ND1-CE1	8.96	1.41	1.32
1	7i	123	PRO	C-N	8.96	1.41	1.33
1	cY	30	LYS	CA-CB	8.96	1.66	1.54
1	eC	134	ILE	CA-CB	-8.96	1.44	1.54
1	hD	37	ILE	CA-C	8.96	1.60	1.52
1	hG	123	PRO	C-N	8.96	1.41	1.33
1	hP	187	GLU	CA-CB	8.96	1.68	1.53
1	4k	85	PRO	CA-CB	8.96	1.64	1.53
1	8h	37	ILE	CA-CB	8.96	1.59	1.54
1	dX	70	LYS	CA-C	-8.96	1.41	1.52
1	9N	80	TRP	N-CA	-8.96	1.35	1.46
1	c	84	HIS	C-O	-8.96	1.19	1.23
1	V	55	MET	CA-C	8.96	1.64	1.52
1	iv	62	HIS	CE1-NE2	8.96	1.41	1.32
1	1V	166	ASP	C-N	8.96	1.46	1.33
1	38	159	GLU	CA-C	-8.95	1.41	1.52
1	4u	26	VAL	CA-C	-8.96	1.41	1.52
1	gV	87	HIS	CG-CD2	8.95	1.45	1.35
1	kz	120	HIS	CA-CB	8.95	1.66	1.53
1	iF	60	GLY	CA-C	-8.95	1.42	1.52
1	an	18	ARG	CA-C	8.95	1.64	1.52
1	H	87	HIS	ND1-CE1	8.95	1.41	1.32
1	20	129	ILE	CA-C	8.95	1.63	1.52
1	5W	2	ILE	CA-C	8.95	1.63	1.52
1	eM	37	ILE	CA-C	8.95	1.60	1.52
1	i2	52	LEU	CA-CB	8.94	1.67	1.53
1	kI	202	LEU	CA-C	8.95	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2s	25	LYS	C-N	8.94	1.44	1.33
1	5Y	37	ILE	CA-C	8.94	1.60	1.52
1	6t	126	VAL	CA-CB	-8.94	1.42	1.54
1	3q	34	PRO	CA-C	-8.94	1.40	1.52
1	4E	29	GLU	CA-C	-8.94	1.41	1.52
1	4W	138	LEU	C-N	8.94	1.45	1.33
1	9T	117	TRP	N-CA	8.94	1.57	1.46
1	1B	230	VAL	CA-CB	-8.94	1.45	1.54
1	js	153	ILE	CA-C	8.94	1.62	1.52
1	jr	117	TRP	NE1-CE2	-8.94	1.27	1.37
1	g0	73	ILE	C-N	8.94	1.45	1.33
1	hQ	15	ILE	N-CA	-8.93	1.35	1.46
1	3N	135	ILE	C-N	8.93	1.45	1.33
1	dJ	124	ILE	CA-CB	-8.93	1.45	1.53
1	2d	84	HIS	C-O	-8.93	1.17	1.25
1	gy	12	HIS	ND1-CE1	8.93	1.41	1.32
1	kV	7	GLN	C-N	8.93	1.43	1.32
1	4e	18	ARG	C-N	8.93	1.45	1.33
1	8B	33	SER	CA-CB	8.93	1.66	1.54
1	1f	158	LYS	CA-CB	8.93	1.65	1.53
1	eh	188	THR	CA-C	-8.93	1.46	1.52
1	hd	178	SER	CA-CB	8.93	1.67	1.53
1	lx	218	CYS	CA-CB	8.93	1.68	1.53
1	7D	87	HIS	ND1-CE1	8.93	1.41	1.32
1	2A	7	GLN	CA-CB	8.93	1.68	1.53
1	bR	125	PRO	CA-C	8.93	1.61	1.53
1	cj	124	ILE	N-CA	-8.93	1.38	1.46
1	do	204	ALA	C-N	8.93	1.46	1.34
1	ho	201	ILE	N-CA	-8.92	1.35	1.46
1	9i	37	ILE	CA-CB	-8.92	1.49	1.54
1	i9	19	THR	CB-OG1	-8.92	1.29	1.43
1	ld	87	HIS	ND1-CE1	8.92	1.41	1.32
1	ls	18	ARG	CD-NE	8.92	1.58	1.46
1	3o	120	HIS	ND1-CE1	8.92	1.41	1.32
1	77	53	ASN	C-N	8.92	1.45	1.33
1	ki	168	PHE	CA-CB	8.91	1.68	1.53
1	bH	58	THR	CA-C	-8.91	1.41	1.52
1	o	84	HIS	CE1-NE2	8.91	1.41	1.32
1	aw	125	PRO	N-CA	8.91	1.53	1.47
1	2C	36	VAL	CA-CB	-8.91	1.43	1.54
1	3u	62	HIS	CE1-NE2	8.91	1.41	1.32
1	7Q	229	ARG	CA-C	8.91	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dT	116	GLY	CA-C	8.91	1.61	1.52
1	l8	124	ILE	N-CA	-8.91	1.39	1.46
1	le	9	GLN	N-CA	8.91	1.56	1.46
1	k3	17	PRO	CA-CB	8.91	1.66	1.53
1	3e	62	HIS	CE1-NE2	8.91	1.41	1.32
1	56	65	ALA	N-CA	8.91	1.57	1.46
1	9c	78	ALA	CA-C	-8.91	1.41	1.52
1	h0	37	ILE	CA-C	-8.90	1.44	1.52
1	2z	12	HIS	CD2-NE2	8.90	1.47	1.37
1	bU	99	PRO	CA-C	-8.90	1.44	1.52
1	hG	87	HIS	ND1-CE1	8.90	1.41	1.32
1	4l	62	HIS	CB-CG	8.90	1.62	1.50
1	cD	33	SER	CA-C	-8.90	1.43	1.53
1	i	144	MET	CA-C	-8.90	1.41	1.52
1	hC	222	GLY	CA-C	8.90	1.64	1.51
1	fI	87	HIS	CA-C	-8.90	1.41	1.52
1	k1	228	ALA	CA-C	8.90	1.63	1.52
1	2p	146	SER	CA-C	8.90	1.64	1.52
1	4H	40	PHE	CA-C	-8.90	1.41	1.52
1	5d	57	ASN	N-CA	-8.90	1.34	1.46
1	7t	187	GLU	N-CA	-8.90	1.35	1.46
1	cb	161	PHE	CA-CB	8.90	1.68	1.53
1	eo	84	HIS	CA-CB	8.90	1.64	1.53
1	gz	155	GLN	CA-CB	8.89	1.66	1.53
1	2P	133	TRP	NE1-CE2	-8.89	1.27	1.37
1	4i	37	ILE	CA-C	8.89	1.60	1.52
1	9O	62	HIS	ND1-CE1	8.89	1.41	1.32
1	2g	84	HIS	C-N	8.89	1.44	1.33
1	cW	128	GLU	N-CA	-8.89	1.35	1.46
1	dQ	142	VAL	CA-C	-8.89	1.42	1.52
1	q	84	HIS	CD2-NE2	8.89	1.47	1.37
1	I	208	ALA	C-N	8.89	1.45	1.33
1	gw	5	ASN	CA-CB	8.89	1.65	1.53
1	1X	229	ARG	CA-C	8.89	1.63	1.52
1	ft	143	ARG	CD-NE	8.89	1.58	1.46
1	d	42	ALA	CA-C	8.89	1.64	1.52
1	i	146	SER	CA-CB	8.89	1.63	1.53
1	k5	84	HIS	CA-C	-8.89	1.43	1.52
1	kj	124	ILE	CA-C	8.89	1.60	1.53
1	3P	90	PRO	CA-C	8.88	1.65	1.52
1	5W	176	GLN	CA-C	8.88	1.64	1.52
1	7x	18	ARG	CD-NE	8.88	1.58	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c9	29	GLU	CA-C	8.88	1.61	1.53
1	1G	22	ALA	C-N	8.88	1.45	1.33
1	je	55	MET	CA-C	8.88	1.64	1.52
1	54	150	ILE	CA-C	8.88	1.64	1.52
1	aM	20	LEU	N-CA	8.88	1.57	1.46
1	8C	92	GLU	CA-C	8.88	1.60	1.52
1	95	3	VAL	CA-CB	-8.88	1.43	1.54
1	cX	110	THR	CA-C	-8.88	1.40	1.53
1	lw	57	ASN	C-N	8.88	1.46	1.33
1	2U	226	HIS	ND1-CE1	8.88	1.41	1.32
1	5G	12	HIS	CE1-NE2	8.88	1.41	1.32
1	as	29	GLU	N-CA	-8.88	1.35	1.46
1	9o	67	GLN	CA-C	8.88	1.63	1.52
1	dx	98	GLU	CA-C	8.88	1.63	1.53
1	eo	30	LYS	CA-C	8.88	1.62	1.52
1	l	12	HIS	CE1-NE2	8.88	1.41	1.32
1	hq	176	GLN	N-CA	8.88	1.57	1.46
1	lN	57	ASN	CA-CB	8.88	1.67	1.53
1	55	113	GLU	N-CA	8.88	1.57	1.46
1	76	27	VAL	N-CA	8.88	1.56	1.46
1	a3	124	ILE	N-CA	-8.88	1.39	1.46
1	bF	120	HIS	ND1-CE1	8.88	1.41	1.32
1	ik	101	GLY	CA-C	-8.87	1.42	1.52
1	76	172	LEU	C-N	8.87	1.46	1.33
1	az	135	ILE	CA-C	-8.87	1.39	1.52
1	cV	2	ILE	CA-C	8.87	1.62	1.52
1	9T	185	MET	N-CA	-8.87	1.35	1.46
1	1N	12	HIS	C-N	8.87	1.45	1.33
1	7f	62	HIS	ND1-CE1	-8.87	1.23	1.32
1	a1	148	THR	CA-C	-8.87	1.41	1.52
1	eD	159	GLU	CA-CB	8.87	1.67	1.53
1	gp	18	ARG	N-CA	-8.87	1.35	1.46
1	io	197	ASP	CA-C	8.87	1.64	1.52
1	2y	212	GLU	N-CA	-8.87	1.35	1.46
1	6S	111	LEU	CA-C	8.87	1.64	1.52
1	es	125	PRO	CA-C	8.87	1.61	1.53
1	86	119	THR	CA-CB	8.86	1.65	1.53
1	hQ	124	ILE	CA-C	8.86	1.60	1.53
1	iE	179	GLN	C-N	8.86	1.45	1.33
1	jl	10	MET	N-CA	-8.86	1.34	1.46
1	kk	122	PRO	C-N	8.86	1.44	1.33
1	32	98	GLU	C-N	8.86	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7q	51	ASP	CA-C	-8.86	1.41	1.52
1	kQ	204	ALA	N-CA	-8.86	1.35	1.46
1	6N	230	VAL	CA-CB	-8.86	1.45	1.54
1	b1	93	PRO	CA-C	8.86	1.63	1.52
1	jg	37	ILE	CA-CB	8.86	1.59	1.54
1	k2	84	HIS	ND1-CE1	8.86	1.41	1.32
1	8B	88	ALA	N-CA	8.86	1.56	1.45
1	ej	37	ILE	CA-C	8.86	1.60	1.52
1	gO	136	LEU	CA-C	8.86	1.64	1.52
1	ci	104	ILE	N-CA	8.86	1.57	1.46
1	87	153	ILE	CA-CB	8.86	1.64	1.54
1	9Z	64	ALA	CA-C	8.86	1.64	1.52
1	eh	199	LYS	N-CA	-8.86	1.35	1.46
1	l8	37	ILE	CA-CB	-8.85	1.49	1.54
1	ht	37	ILE	CA-C	8.85	1.60	1.52
1	5C	226	HIS	ND1-CE1	8.85	1.41	1.32
1	8G	92	GLU	N-CA	8.85	1.57	1.45
1	hP	133	TRP	C-N	8.85	1.45	1.33
1	c3	103	ASP	N-CA	-8.85	1.34	1.46
1	4q	123	PRO	CA-C	8.85	1.65	1.52
1	7w	103	ASP	N-CA	8.85	1.56	1.46
1	i4	106	GLY	CA-C	-8.85	1.42	1.51
1	kh	125	PRO	N-CA	-8.85	1.40	1.47
1	2e	59	VAL	N-CA	8.85	1.56	1.46
1	5l	121	ASN	CA-C	8.85	1.62	1.52
1	cd	43	LEU	N-CA	-8.85	1.34	1.46
1	gV	181	VAL	CA-C	-8.84	1.42	1.52
1	gX	13	GLN	N-CA	-8.84	1.35	1.46
1	31	60	GLY	C-N	8.84	1.42	1.33
1	6I	96	MET	N-CA	8.84	1.57	1.46
1	f8	190	LEU	CA-C	-8.84	1.41	1.52
1	i	214	MET	CA-C	8.84	1.64	1.52
1	39	19	THR	CA-C	8.84	1.65	1.52
1	I	28	GLU	CA-C	-8.84	1.46	1.52
1	ge	87	HIS	ND1-CE1	8.84	1.41	1.32
1	iD	106	GLY	CA-C	-8.84	1.39	1.51
1	g8	107	THR	CA-C	-8.84	1.46	1.52
1	iY	95	GLN	CA-C	-8.84	1.42	1.52
1	24	20	LEU	C-N	8.84	1.45	1.33
1	25	120	HIS	ND1-CE1	8.84	1.41	1.32
1	ex	124	ILE	CA-CB	-8.84	1.44	1.53
1	ju	153	ILE	CA-CB	-8.84	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kU	159	GLU	C-N	8.84	1.44	1.33
1	lj	69	LEU	CA-C	8.84	1.64	1.52
1	V	52	LEU	N-CA	-8.84	1.35	1.46
1	g2	197	ASP	CA-CB	8.84	1.67	1.53
1	b6	105	ALA	CA-C	8.83	1.64	1.52
1	jw	56	LEU	CA-C	8.83	1.64	1.52
1	kI	14	ALA	N-CA	-8.83	1.35	1.45
1	2N	37	ILE	CA-CB	-8.83	1.47	1.53
1	7t	25	LYS	CA-C	8.83	1.64	1.52
1	8P	37	ILE	CA-C	8.83	1.60	1.52
1	gN	32	PHE	CA-CB	8.83	1.64	1.53
1	k9	84	HIS	N-CA	-8.83	1.35	1.46
1	ad	153	ILE	CA-CB	8.83	1.64	1.54
1	hC	139	ASN	CA-CB	8.83	1.67	1.53
1	ig	62	HIS	CE1-NE2	8.83	1.41	1.32
1	kn	92	GLU	CA-C	8.83	1.65	1.52
1	3c	142	VAL	CA-C	8.83	1.64	1.52
1	aX	130	TYR	CA-C	8.83	1.64	1.52
1	5	178	SER	CA-C	-8.83	1.42	1.52
1	bD	171	THR	CA-C	8.82	1.64	1.52
1	dh	129	ILE	CA-C	-8.82	1.42	1.52
1	74	119	THR	CA-C	-8.82	1.40	1.52
1	gA	72	THR	CA-C	8.82	1.64	1.52
1	hW	222	GLY	CA-C	8.82	1.61	1.52
1	4m	220	GLY	CA-C	8.82	1.64	1.51
1	lz	20	LEU	CA-C	8.82	1.64	1.52
1	30	161	PHE	C-N	8.82	1.45	1.33
1	4f	37	ILE	CA-C	8.82	1.60	1.52
1	eK	177	ALA	N-CA	-8.82	1.34	1.46
1	gk	216	THR	CA-C	-8.82	1.41	1.52
1	hC	4	GLN	CA-CB	8.82	1.66	1.53
1	4O	165	VAL	CA-CB	-8.82	1.44	1.54
1	98	142	VAL	CA-CB	-8.82	1.43	1.54
1	au	125	PRO	N-CA	8.82	1.53	1.47
1	gU	73	ILE	CA-CB	-8.81	1.44	1.54
1	lQ	120	HIS	CG-CD2	8.81	1.45	1.35
1	2r	1	PRO	N-CA	8.81	1.60	1.47
1	3d	55	MET	CA-C	8.81	1.64	1.52
1	jP	59	VAL	CA-C	-8.81	1.44	1.53
1	gB	120	HIS	CA-C	-8.81	1.41	1.52
1	gG	226	HIS	ND1-CE1	8.81	1.41	1.32
1	gH	85	PRO	CA-C	8.81	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Q	62	HIS	CE1-NE2	8.81	1.41	1.32
1	2g	61	GLY	C-N	8.81	1.44	1.33
1	8j	206	GLY	C-N	8.81	1.42	1.33
1	au	162	ARG	CA-C	8.81	1.64	1.52
1	av	126	VAL	C-N	8.81	1.43	1.33
1	bh	48	THR	CA-C	8.81	1.64	1.53
1	bq	84	HIS	ND1-CE1	8.81	1.41	1.32
1	gy	32	PHE	CA-CB	8.81	1.65	1.53
1	hb	27	VAL	CA-C	8.81	1.63	1.52
1	j8	84	HIS	CB-CG	8.81	1.62	1.50
1	8n	201	ILE	CA-CB	8.81	1.64	1.54
1	lk	125	PRO	CA-C	-8.81	1.45	1.53
1	g0	124	ILE	CA-C	-8.81	1.46	1.53
1	o	87	HIS	ND1-CE1	8.81	1.41	1.32
1	kY	9	GLN	CA-C	8.81	1.64	1.52
1	ln	37	ILE	CA-C	8.80	1.62	1.52
1	aw	90	PRO	C-N	8.81	1.44	1.33
1	dk	98	GLU	CA-C	8.80	1.62	1.53
1	en	58	THR	N-CA	8.80	1.57	1.46
1	7b	2	ILE	CA-CB	-8.80	1.44	1.54
1	jx	96	MET	CA-CB	8.80	1.64	1.53
1	5V	155	GLN	CA-C	8.80	1.64	1.52
1	7P	164	TYR	C-N	8.80	1.44	1.33
1	aW	71	GLU	CA-C	-8.80	1.40	1.52
1	cd	29	GLU	CA-CB	8.80	1.67	1.53
1	jh	191	VAL	CA-CB	-8.79	1.43	1.54
1	5F	125	PRO	CA-CB	8.79	1.59	1.53
1	5V	230	VAL	CA-CB	8.79	1.64	1.54
1	8M	72	THR	N-CA	8.79	1.57	1.46
1	9w	169	TYR	C-N	8.79	1.45	1.33
1	9G	219	GLN	N-CA	8.79	1.56	1.46
1	eO	37	ILE	CA-C	8.79	1.62	1.52
1	21	37	ILE	CA-CB	8.79	1.58	1.54
1	7S	7	GLN	CA-CB	8.79	1.65	1.53
1	8q	99	PRO	CA-C	-8.79	1.41	1.52
1	3T	84	HIS	ND1-CE1	8.79	1.41	1.32
1	5h	79	GLU	N-CA	8.79	1.56	1.46
1	5Y	99	PRO	CA-C	8.79	1.64	1.52
1	79	33	SER	CA-CB	8.79	1.66	1.54
1	7P	198	CYS	C-N	8.79	1.45	1.33
1	97	10	MET	CA-C	8.79	1.64	1.53
1	9N	69	LEU	CA-CB	8.79	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b5	93	PRO	C-N	8.79	1.42	1.33
1	bH	94	GLY	C-N	8.79	1.44	1.33
1	M	110	THR	N-CA	8.79	1.56	1.45
1	jr	164	TYR	C-N	8.79	1.43	1.34
1	ef	126	VAL	CA-C	8.79	1.64	1.52
1	el	133	TRP	CA-C	-8.79	1.41	1.52
1	L	75	GLU	CA-C	-8.78	1.41	1.52
1	jH	223	GLY	C-N	-8.78	1.22	1.33
1	lH	93	PRO	CA-C	-8.78	1.42	1.52
1	4V	159	GLU	CA-C	-8.78	1.44	1.53
1	cc	11	VAL	CA-CB	-8.78	1.44	1.54
1	ar	48	THR	CA-C	8.78	1.64	1.53
1	eN	37	ILE	CA-CB	-8.78	1.48	1.53
1	gW	162	ARG	CA-CB	8.78	1.67	1.53
1	hV	82	ARG	CA-C	8.78	1.64	1.52
1	ik	195	ASN	CA-CB	8.78	1.65	1.53
1	iZ	33	SER	C-N	8.78	1.42	1.33
1	9k	211	LEU	N-CA	8.78	1.56	1.46
1	S	12	HIS	ND1-CE1	8.78	1.41	1.32
1	2n	87	HIS	ND1-CE1	8.78	1.41	1.32
1	4w	84	HIS	ND1-CE1	8.78	1.41	1.32
1	ax	124	ILE	CA-C	8.78	1.60	1.53
1	bg	133	TRP	CA-C	8.78	1.64	1.52
1	cQ	62	HIS	CE1-NE2	8.78	1.41	1.32
1	j	78	ALA	CA-C	8.78	1.64	1.52
1	dI	129	ILE	N-CA	-8.77	1.36	1.46
1	gd	80	TRP	CA-C	-8.77	1.41	1.52
1	hR	18	ARG	CD-NE	8.77	1.58	1.46
1	1W	12	HIS	ND1-CE1	8.77	1.41	1.32
1	2q	82	ARG	CD-NE	8.77	1.58	1.46
1	9T	109	SER	CA-CB	8.77	1.65	1.53
1	bC	195	ASN	CA-CB	8.77	1.67	1.53
1	7X	156	GLY	CA-C	8.77	1.63	1.51
1	aG	160	PRO	CA-CB	-8.77	1.48	1.53
1	7q	164	TYR	CA-CB	8.77	1.67	1.53
1	1y	83	LEU	C-N	8.77	1.42	1.33
1	iV	120	HIS	CA-CB	8.77	1.66	1.53
1	54	226	HIS	ND1-CE1	8.77	1.41	1.32
1	9Z	144	MET	CA-CB	8.77	1.67	1.53
1	1E	226	HIS	ND1-CE1	8.76	1.41	1.32
1	kW	9	GLN	CA-CB	8.76	1.66	1.53
1	cs	57	ASN	CA-CB	8.76	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3O	226	HIS	ND1-CE1	8.76	1.41	1.32
1	eV	15	ILE	CA-C	-8.76	1.42	1.52
1	jH	14	ALA	N-CA	-8.76	1.34	1.45
1	lC	224	PRO	CA-CB	8.76	1.59	1.53
1	aK	10	MET	CA-C	8.76	1.64	1.53
1	dO	148	THR	CA-C	8.76	1.64	1.53
1	G	33	SER	CA-C	8.76	1.61	1.52
1	9	126	VAL	CA-CB	-8.76	1.42	1.54
1	8	37	ILE	CA-C	8.76	1.60	1.52
1	kY	33	SER	CA-C	8.76	1.61	1.52
1	lC	125	PRO	CA-CB	8.76	1.59	1.53
1	7k	127	GLY	CA-C	-8.76	1.42	1.52
1	8M	205	LEU	CA-C	8.76	1.64	1.52
1	dt	30	LYS	C-N	8.76	1.46	1.33
1	gN	189	LEU	CA-C	8.76	1.64	1.52
1	jJ	71	GLU	CA-C	8.76	1.64	1.52
1	9N	202	LEU	CA-C	-8.76	1.41	1.52
1	5v	155	GLN	CA-C	-8.76	1.42	1.52
1	bM	124	ILE	CA-CB	-8.76	1.44	1.53
1	iK	37	ILE	CA-CB	-8.75	1.48	1.53
1	35	13	GLN	CA-C	-8.75	1.42	1.52
1	5Y	12	HIS	ND1-CE1	8.75	1.41	1.32
1	y	226	HIS	CE1-NE2	-8.75	1.23	1.32
1	gA	10	MET	CA-C	-8.75	1.42	1.52
1	lf	128	GLU	C-N	8.75	1.44	1.33
1	4D	186	THR	N-CA	8.75	1.56	1.46
1	8L	7	GLN	CA-C	-8.75	1.41	1.52
1	au	136	LEU	CA-C	-8.75	1.41	1.52
1	aT	84	HIS	ND1-CE1	8.75	1.41	1.32
1	kw	221	VAL	CA-CB	8.75	1.64	1.55
1	7t	69	LEU	CA-C	8.75	1.64	1.52
1	8V	36	VAL	CA-C	8.75	1.64	1.52
1	9K	64	ALA	C-N	8.75	1.45	1.33
1	1h	53	ASN	C-N	8.75	1.45	1.33
1	fN	159	GLU	CA-C	8.75	1.63	1.53
1	iH	94	GLY	CA-C	-8.74	1.42	1.51
1	77	188	THR	CA-C	-8.74	1.43	1.52
1	9m	175	GLU	CA-C	8.74	1.63	1.52
1	e4	199	LYS	C-N	8.74	1.45	1.33
1	6T	88	ALA	C-N	8.74	1.46	1.33
1	82	91	ILE	CA-CB	8.74	1.63	1.54
1	eH	23	TRP	CA-C	8.74	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g7	82	ARG	CD-NE	8.74	1.58	1.46
1	9	159	GLU	CA-CB	8.74	1.66	1.52
1	6g	33	SER	CA-C	8.74	1.63	1.52
1	9z	129	ILE	CA-C	-8.74	1.42	1.52
1	cr	167	ARG	NE-CZ	-8.74	1.23	1.33
1	cB	79	GLU	C-N	8.74	1.45	1.33
1	1l	120	HIS	ND1-CE1	8.74	1.41	1.32
1	3v	58	THR	CA-C	8.74	1.64	1.52
1	gP	117	TRP	NE1-CE2	-8.74	1.27	1.37
1	1I	186	THR	CA-C	-8.74	1.41	1.52
1	5j	127	GLY	CA-C	8.74	1.61	1.52
1	ag	81	ASP	CA-C	8.74	1.64	1.52
1	eE	37	ILE	CA-C	8.74	1.62	1.52
1	gt	182	LYS	N-CA	8.73	1.56	1.46
1	kg	69	LEU	CA-C	8.73	1.64	1.52
1	9T	99	PRO	CA-C	8.73	1.61	1.52
1	af	139	ASN	CA-CB	8.73	1.66	1.53
1	L	153	ILE	CA-CB	-8.73	1.43	1.54
1	gI	141	ILE	CA-CB	-8.73	1.43	1.54
1	8F	226	HIS	ND1-CE1	8.73	1.41	1.32
1	cr	19	THR	N-CA	8.73	1.57	1.46
1	ek	140	LYS	CA-C	8.73	1.64	1.52
1	7	15	ILE	CA-CB	8.73	1.63	1.54
1	jM	13	GLN	CA-C	-8.73	1.41	1.52
1	3A	97	ARG	CD-NE	8.73	1.58	1.46
1	9r	85	PRO	CA-C	8.73	1.63	1.52
1	iH	24	VAL	CA-C	8.73	1.63	1.52
1	3t	158	LYS	CA-C	8.73	1.64	1.52
1	ef	37	ILE	CA-C	8.73	1.62	1.52
1	0	73	ILE	CA-C	-8.73	1.42	1.52
1	j5	40	PHE	N-CA	8.72	1.56	1.46
1	3O	162	ARG	CD-NE	8.72	1.58	1.46
1	66	10	MET	CA-CB	8.72	1.66	1.53
1	1v	190	LEU	CA-CB	8.72	1.67	1.53
1	b	70	LYS	C-N	8.72	1.45	1.33
1	2b	146	SER	CA-C	8.72	1.62	1.52
1	8h	125	PRO	CA-C	8.72	1.60	1.53
1	aW	124	ILE	CA-C	8.72	1.62	1.52
1	gw	164	TYR	CA-C	8.72	1.63	1.52
1	4X	62	HIS	CE1-NE2	8.72	1.41	1.32
1	g7	197	ASP	C-N	8.72	1.45	1.33
1	kR	124	ILE	CA-C	-8.72	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4H	121	ASN	CA-C	8.72	1.60	1.52
1	9k	127	GLY	CA-C	-8.72	1.42	1.52
1	kT	176	GLN	CA-CB	8.72	1.66	1.53
1	lo	29	GLU	CA-C	8.72	1.63	1.52
1	7m	84	HIS	CE1-NE2	-8.72	1.23	1.32
1	6E	120	HIS	CA-C	-8.71	1.41	1.52
1	7M	142	VAL	CA-CB	-8.71	1.43	1.54
1	j2	59	VAL	CA-CB	8.71	1.66	1.53
1	9L	58	THR	N-CA	8.71	1.57	1.46
1	1r	205	LEU	CA-CB	8.71	1.66	1.53
1	gR	70	LYS	CA-C	8.71	1.64	1.52
1	hs	37	ILE	CA-CB	-8.71	1.49	1.54
1	kH	16	SER	C-N	8.71	1.45	1.33
1	cF	187	GLU	CA-C	8.71	1.64	1.52
1	91	2	ILE	CA-CB	8.71	1.64	1.54
1	iy	181	VAL	CA-C	8.71	1.63	1.52
1	jY	32	PHE	CA-CB	8.71	1.66	1.53
1	kw	124	ILE	N-CA	-8.71	1.39	1.46
1	4N	128	GLU	N-CA	-8.71	1.36	1.46
1	64	216	THR	C-N	8.71	1.45	1.33
1	bd	130	TYR	CA-CB	8.71	1.67	1.53
1	dt	61	GLY	C-N	8.71	1.44	1.33
1	5Q	117	TRP	NE1-CE2	-8.71	1.27	1.37
1	8p	163	ASP	CA-C	-8.71	1.41	1.52
1	aJ	29	GLU	CA-C	8.71	1.64	1.52
1	3C	191	VAL	CA-C	-8.71	1.41	1.52
1	bc	43	LEU	CA-CB	8.71	1.68	1.53
1	hl	12	HIS	CA-CB	8.70	1.65	1.53
1	kB	120	HIS	ND1-CE1	8.70	1.41	1.32
1	3i	123	PRO	C-N	8.71	1.41	1.33
1	bL	23	TRP	CA-C	8.71	1.64	1.52
1	5c	169	TYR	N-CA	-8.70	1.36	1.46
1	dy	152	ASP	C-N	8.70	1.44	1.33
1	e7	40	PHE	CA-CB	8.70	1.66	1.53
1	fa	8	GLY	N-CA	8.70	1.53	1.45
1	ia	21	ASN	CA-CB	8.70	1.67	1.53
1	bw	31	ALA	C-O	-8.70	1.16	1.24
1	j6	170	LYS	CA-C	-8.70	1.41	1.52
1	lq	195	ASN	CA-C	8.70	1.62	1.53
1	3K	211	LEU	N-CA	-8.70	1.36	1.46
1	4K	165	VAL	CA-CB	8.70	1.64	1.54
1	85	120	HIS	ND1-CE1	8.70	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ag	218	CYS	C-N	8.70	1.46	1.33
1	fu	37	ILE	CA-CB	8.70	1.59	1.53
1	kx	124	ILE	CA-C	-8.70	1.45	1.53
1	gI	12	HIS	CB-CG	8.70	1.62	1.50
1	k9	109	SER	CA-C	-8.70	1.41	1.52
1	g6	151	LEU	CA-C	-8.70	1.40	1.52
1	dm	226	HIS	CB-CG	8.69	1.62	1.50
1	iT	104	ILE	CA-C	8.69	1.64	1.52
1	jg	80	TRP	CA-CB	8.69	1.66	1.53
1	jD	121	ASN	CA-C	8.69	1.59	1.52
1	3o	162	ARG	CA-C	8.69	1.64	1.52
1	bj	84	HIS	ND1-CE1	8.69	1.41	1.32
1	5p	109	SER	N-CA	8.69	1.57	1.45
1	7u	141	ILE	N-CA	-8.69	1.36	1.46
1	8Q	222	GLY	CA-C	8.69	1.62	1.52
1	c8	166	ASP	N-CA	-8.69	1.36	1.46
1	iT	73	ILE	CA-CB	-8.69	1.44	1.54
1	6e	148	THR	N-CA	8.69	1.56	1.46
1	94	174	ALA	C-N	8.69	1.45	1.33
1	aj	210	THR	C-N	8.69	1.45	1.33
1	iV	227	LYS	CA-CB	8.69	1.65	1.53
1	7M	120	HIS	ND1-CE1	8.69	1.41	1.32
1	15	156	GLY	C-N	8.69	1.40	1.33
1	da	121	ASN	CA-C	8.69	1.59	1.52
1	iF	97	ARG	N-CA	-8.69	1.35	1.46
1	2L	188	THR	N-CA	8.69	1.55	1.46
1	5j	15	ILE	CA-CB	-8.69	1.43	1.54
1	lx	77	ALA	CA-C	-8.69	1.41	1.52
1	8x	88	ALA	C-N	8.69	1.46	1.33
1	1T	144	MET	CA-C	8.68	1.64	1.52
1	76	37	ILE	CA-CB	-8.68	1.49	1.54
1	dY	199	LYS	CA-C	-8.68	1.41	1.52
1	eD	33	SER	CA-C	-8.68	1.43	1.52
1	I	38	PRO	N-CA	-8.68	1.35	1.47
1	cJ	82	ARG	CD-NE	8.68	1.58	1.46
1	d3	120	HIS	ND1-CE1	8.68	1.41	1.32
1	ev	223	GLY	C-N	-8.68	1.26	1.33
1	fm	125	PRO	CA-C	8.68	1.61	1.53
1	ha	55	MET	CA-C	8.68	1.64	1.52
1	hL	170	LYS	N-CA	8.68	1.56	1.46
1	lf	48	THR	CA-C	8.68	1.62	1.53
1	dD	114	GLN	CA-C	-8.68	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fF	121	ASN	CA-C	-8.68	1.45	1.52
1	7F	68	MET	CA-C	-8.68	1.41	1.52
1	aV	128	GLU	CA-C	-8.68	1.41	1.52
1	dM	13	GLN	CA-CB	8.68	1.66	1.53
1	fT	62	HIS	CE1-NE2	8.68	1.41	1.32
1	ge	123	PRO	C-N	8.67	1.41	1.33
1	h8	228	ALA	CA-C	-8.67	1.41	1.52
1	jb	62	HIS	CB-CG	-8.67	1.38	1.50
1	4b	43	LEU	N-CA	8.67	1.57	1.46
1	4T	167	ARG	N-CA	8.67	1.56	1.46
1	8z	52	LEU	C-N	8.67	1.45	1.33
1	9x	154	ARG	CA-C	-8.67	1.42	1.52
1	iE	197	ASP	C-N	8.67	1.45	1.33
1	5q	163	ASP	CA-C	8.67	1.64	1.52
1	89	133	TRP	N-CA	8.67	1.57	1.46
1	fp	85	PRO	N-CD	-8.67	1.35	1.47
1	i	97	ARG	NE-CZ	8.67	1.42	1.33
1	gm	135	ILE	CA-C	-8.67	1.41	1.52
1	hO	62	HIS	CE1-NE2	8.67	1.41	1.32
1	5E	167	ARG	CA-C	-8.67	1.41	1.52
1	9j	117	TRP	NE1-CE2	-8.67	1.27	1.37
1	cq	153	ILE	CA-C	8.67	1.62	1.52
1	gj	26	VAL	CA-CB	8.66	1.65	1.54
1	jK	28	GLU	N-CA	-8.66	1.36	1.46
1	ls	37	ILE	CA-C	8.66	1.60	1.52
1	4z	87	HIS	ND1-CE1	8.66	1.41	1.32
1	9y	16	SER	C-N	8.66	1.44	1.34
1	jO	135	ILE	CA-C	-8.66	1.41	1.52
1	57	12	HIS	CD2-NE2	8.66	1.47	1.37
1	dJ	124	ILE	CA-C	-8.66	1.46	1.53
1	7z	62	HIS	CE1-NE2	8.66	1.41	1.32
1	8p	105	ALA	CA-C	8.66	1.65	1.52
1	bN	120	HIS	CD2-NE2	8.66	1.47	1.37
1	dB	193	ASN	N-CA	-8.66	1.34	1.46
1	1N	136	LEU	N-CA	-8.66	1.35	1.46
1	4z	45	GLU	N-CA	8.66	1.57	1.46
1	8X	170	LYS	CA-C	-8.66	1.41	1.52
1	2i	230	VAL	C-N	8.66	1.45	1.33
1	8i	183	ASN	N-CA	-8.66	1.36	1.46
1	f3	23	TRP	NE1-CE2	8.66	1.47	1.37
1	j9	135	ILE	N-CA	8.65	1.56	1.46
1	l3	103	ASP	N-CA	-8.65	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3m	36	VAL	C-N	8.65	1.43	1.33
1	5p	208	ALA	C-N	8.65	1.45	1.33
1	6l	41	SER	C-N	8.65	1.44	1.33
1	kg	146	SER	CA-C	8.65	1.61	1.53
1	ad	195	ASN	CA-CB	8.65	1.65	1.53
1	bG	112	GLN	CA-CB	8.65	1.66	1.53
1	hO	174	ALA	CA-CB	8.65	1.67	1.53
1	1U	12	HIS	ND1-CE1	8.65	1.41	1.32
1	gZ	225	GLY	C-O	-8.65	1.14	1.24
1	3W	214	MET	CA-C	-8.65	1.41	1.52
1	4N	117	TRP	NE1-CE2	-8.65	1.27	1.37
1	9i	185	MET	N-CA	-8.65	1.35	1.46
1	9L	221	VAL	N-CA	8.65	1.54	1.46
1	15	104	ILE	N-CA	-8.65	1.36	1.46
1	a1	51	ASP	C-N	8.65	1.45	1.34
1	lD	229	ARG	CA-C	8.64	1.64	1.52
1	7b	84	HIS	CB-CG	8.64	1.62	1.50
1	3Q	206	GLY	CA-C	8.64	1.64	1.51
1	7a	99	PRO	CA-CB	8.64	1.65	1.53
1	v	32	PHE	C-N	8.64	1.43	1.33
1	dm	75	GLU	N-CA	-8.64	1.35	1.46
1	hg	201	ILE	CA-C	8.64	1.62	1.52
1	4n	120	HIS	ND1-CE1	8.64	1.41	1.32
1	5g	124	ILE	CA-CB	-8.64	1.45	1.53
1	bP	1	PRO	N-CD	8.64	1.59	1.47
1	cT	127	GLY	CA-C	-8.64	1.42	1.52
1	iG	30	LYS	N-CA	-8.64	1.39	1.47
1	gw	105	ALA	CA-C	-8.64	1.40	1.52
1	gN	128	GLU	CA-C	8.64	1.64	1.52
1	2e	11	VAL	C-O	-8.64	1.15	1.24
1	bj	132	ARG	CD-NE	8.64	1.58	1.46
1	6F	146	SER	CA-CB	8.63	1.65	1.53
1	cN	206	GLY	C-N	8.63	1.42	1.34
1	1i	24	VAL	CA-C	8.63	1.63	1.52
1	dO	84	HIS	CA-C	-8.63	1.45	1.52
1	dR	109	SER	CA-C	-8.63	1.42	1.52
1	ef	125	PRO	CA-CB	-8.63	1.48	1.53
1	hi	120	HIS	ND1-CE1	8.63	1.41	1.32
1	5P	96	MET	CA-CB	8.63	1.67	1.53
1	7S	84	HIS	CA-CB	8.63	1.63	1.53
1	el	189	LEU	N-CA	-8.63	1.35	1.46
1	bt	126	VAL	CA-CB	8.63	1.66	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e5	62	HIS	CE1-NE2	8.63	1.41	1.32
1	jB	178	SER	CA-CB	8.63	1.68	1.53
1	lk	214	MET	N-CA	8.63	1.56	1.46
1	4v	221	VAL	CA-C	-8.63	1.42	1.52
1	8k	112	GLN	CA-CB	8.63	1.66	1.53
1	ah	27	VAL	CA-C	-8.63	1.41	1.52
1	bB	185	MET	CA-C	8.63	1.63	1.52
1	1A	184	TRP	CA-C	8.63	1.63	1.52
1	J	121	ASN	CA-C	8.63	1.61	1.52
1	hc	50	GLN	N-CA	-8.63	1.35	1.46
1	hT	192	GLN	CA-C	8.62	1.64	1.52
1	iE	140	LYS	CA-C	8.62	1.64	1.52
1	ku	28	GLU	CA-C	8.63	1.63	1.52
1	2z	67	GLN	CA-CB	8.62	1.66	1.53
1	3m	78	ALA	C-N	8.62	1.45	1.33
1	7J	86	VAL	CA-CB	8.62	1.65	1.54
1	1P	117	TRP	CA-CB	8.62	1.66	1.53
1	3c	183	ASN	CA-C	8.62	1.64	1.52
1	5I	7	GLN	CA-C	-8.62	1.42	1.53
1	8u	213	GLU	CA-C	-8.62	1.42	1.52
1	fD	54	THR	C-N	8.62	1.44	1.33
1	lj	197	ASP	CA-C	-8.62	1.41	1.52
1	9o	100	ARG	C-N	8.62	1.45	1.33
1	bl	190	LEU	CA-CB	8.62	1.64	1.54
1	p	85	PRO	CA-C	-8.62	1.42	1.52
1	2	121	ASN	CA-C	-8.62	1.45	1.52
1	iT	79	GLU	CA-C	8.62	1.64	1.52
1	ja	75	GLU	N-CA	-8.62	1.36	1.46
1	k5	168	PHE	N-CA	-8.62	1.36	1.46
1	8x	184	TRP	CA-CB	8.62	1.66	1.53
1	Z	196	PRO	N-CA	-8.62	1.36	1.47
1	eB	226	HIS	CE1-NE2	-8.62	1.24	1.32
1	g1	145	TYR	N-CA	8.62	1.56	1.46
1	2e	142	VAL	CA-CB	-8.62	1.45	1.54
1	2C	126	VAL	CA-CB	-8.62	1.43	1.54
1	ae	120	HIS	ND1-CE1	8.62	1.41	1.32
1	cO	114	GLN	C-N	8.62	1.44	1.33
1	30	91	ILE	CA-C	8.62	1.62	1.53
1	H	28	GLU	N-CA	8.62	1.56	1.46
1	4G	148	THR	CA-C	8.62	1.62	1.52
1	7S	219	GLN	CA-C	8.62	1.64	1.52
1	7Y	114	GLN	C-N	8.62	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k5	226	HIS	ND1-CE1	8.61	1.41	1.32
1	ko	214	MET	CA-C	8.61	1.64	1.52
1	lr	146	SER	C-N	-8.61	1.26	1.33
1	48	118	MET	CA-C	-8.61	1.41	1.52
1	84	140	LYS	N-CA	8.61	1.56	1.46
1	4a	173	ARG	CA-CB	8.61	1.66	1.53
1	7p	198	CYS	CA-CB	8.61	1.66	1.53
1	iH	148	THR	CA-C	-8.61	1.41	1.52
1	3v	80	TRP	CA-C	8.61	1.64	1.52
1	aE	135	ILE	CA-CB	8.61	1.65	1.54
1	4p	228	ALA	CA-C	8.61	1.62	1.53
1	4N	18	ARG	CD-NE	8.61	1.58	1.46
1	9s	167	ARG	N-CA	-8.61	1.36	1.46
1	gO	37	ILE	CA-C	8.61	1.60	1.52
1	1G	75	GLU	C-N	-8.61	1.22	1.33
1	h7	145	TYR	CA-CB	8.61	1.65	1.53
1	8F	153	ILE	CA-CB	8.61	1.64	1.54
1	5J	7	GLN	N-CA	-8.61	1.35	1.46
1	bg	26	VAL	CA-CB	-8.61	1.44	1.54
1	d3	45	GLU	CA-C	-8.61	1.41	1.52
1	e0	117	TRP	N-CA	-8.61	1.36	1.46
1	h5	99	PRO	CA-C	8.60	1.62	1.52
1	7V	190	LEU	C-N	8.60	1.44	1.33
1	em	45	GLU	C-N	8.60	1.44	1.33
1	f5	124	ILE	CA-C	-8.60	1.45	1.52
1	f9	166	ASP	CA-C	8.60	1.64	1.52
1	4e	215	MET	C-N	8.60	1.44	1.33
1	1k	93	PRO	CA-CB	8.60	1.66	1.53
1	lP	86	VAL	C-N	8.60	1.45	1.33
1	eN	130	TYR	CA-C	8.60	1.63	1.52
1	gz	140	LYS	C-N	8.60	1.44	1.33
1	ha	87	HIS	ND1-CE1	8.60	1.41	1.32
1	k8	28	GLU	CA-C	8.60	1.63	1.52
1	kX	171	THR	N-CA	8.60	1.56	1.46
1	3U	133	TRP	NE1-CE2	-8.60	1.27	1.37
1	6v	230	VAL	CA-C	-8.60	1.42	1.52
1	7G	37	ILE	CA-C	8.60	1.60	1.52
1	1t	59	VAL	CA-CB	8.60	1.64	1.54
1	z	30	LYS	CA-C	-8.60	1.41	1.52
1	6o	226	HIS	ND1-CE1	8.60	1.41	1.32
1	6P	149	SER	C-N	8.60	1.44	1.33
1	1E	124	ILE	CA-C	8.60	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i6	11	VAL	CA-CB	-8.60	1.44	1.54
1	cw	123	PRO	CA-C	-8.60	1.44	1.53
1	jW	16	SER	CA-CB	8.59	1.66	1.53
1	kj	153	ILE	CA-C	8.59	1.60	1.52
1	kk	72	THR	N-CA	8.59	1.56	1.46
1	5A	79	GLU	CA-C	8.59	1.64	1.52
1	jW	208	ALA	CA-C	8.59	1.64	1.52
1	kP	139	ASN	CA-CB	8.59	1.66	1.53
1	5B	37	ILE	CA-CB	8.59	1.58	1.54
1	63	38	PRO	C-N	8.59	1.44	1.33
1	8B	84	HIS	N-CA	-8.59	1.37	1.46
1	fH	182	LYS	CA-CB	8.59	1.66	1.53
1	6u	114	GLN	C-N	8.59	1.44	1.33
1	fZ	125	PRO	CA-CB	-8.59	1.48	1.53
1	hp	174	ALA	CA-C	8.59	1.64	1.52
1	b0	189	LEU	CA-CB	8.59	1.67	1.53
1	H	37	ILE	CA-C	8.59	1.59	1.52
1	1M	53	ASN	CA-C	8.59	1.64	1.52
1	3C	62	HIS	CE1-NE2	8.59	1.41	1.32
1	fe	12	HIS	ND1-CE1	8.59	1.41	1.32
1	5T	226	HIS	ND1-CE1	8.59	1.41	1.32
1	i4	32	PHE	CA-CB	8.58	1.65	1.53
1	j4	143	ARG	CA-CB	8.58	1.66	1.53
1	2F	37	ILE	CA-CB	8.58	1.58	1.54
1	6m	19	THR	N-CA	8.58	1.56	1.46
1	ck	194	ALA	CA-CB	8.58	1.67	1.53
1	4Z	133	TRP	CA-CB	8.58	1.67	1.53
1	5k	113	GLU	C-N	8.58	1.45	1.33
1	cp	169	TYR	CA-C	8.58	1.64	1.52
1	3o	226	HIS	CA-C	-8.58	1.41	1.52
1	8L	124	ILE	N-CA	-8.58	1.39	1.46
1	aA	84	HIS	ND1-CE1	8.58	1.41	1.32
1	5a	62	HIS	CE1-NE2	8.58	1.41	1.32
1	aX	30	LYS	CA-C	8.58	1.63	1.52
1	2K	91	ILE	CA-CB	-8.58	1.43	1.54
1	48	21	ASN	N-CA	8.58	1.57	1.46
1	5a	87	HIS	ND1-CE1	8.58	1.41	1.32
1	fE	71	GLU	C-N	8.58	1.44	1.33
1	6y	48	THR	CA-C	-8.58	1.41	1.52
1	93	114	GLN	CA-CB	8.58	1.66	1.53
1	2q	133	TRP	CA-C	8.57	1.63	1.52
1	3p	37	ILE	CA-CB	8.57	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6u	140	LYS	N-CA	-8.57	1.36	1.46
1	9k	37	ILE	CA-C	8.57	1.60	1.52
1	eo	159	GLU	CA-C	8.57	1.62	1.53
1	1w	35	GLU	C-N	8.57	1.44	1.33
1	k	96	MET	CA-C	-8.57	1.41	1.52
1	hM	48	THR	CA-C	-8.57	1.42	1.52
1	gR	124	ILE	CA-C	8.57	1.61	1.52
1	ic	185	MET	N-CA	-8.57	1.35	1.46
1	lu	45	GLU	CA-C	8.57	1.64	1.52
1	2S	108	THR	N-CA	8.57	1.55	1.46
1	4L	199	LYS	N-CA	8.57	1.56	1.46
1	4Y	41	SER	CA-CB	8.57	1.66	1.53
1	kY	188	THR	CA-C	-8.57	1.46	1.52
1	3r	125	PRO	CA-C	8.57	1.61	1.53
1	7v	126	VAL	C-N	8.57	1.43	1.33
1	8D	223	GLY	C-N	-8.57	1.24	1.33
1	al	71	GLU	N-CA	-8.57	1.35	1.46
1	bA	43	LEU	CA-CB	8.57	1.66	1.53
1	an	188	THR	CA-C	-8.57	1.42	1.52
1	aW	91	ILE	N-CA	-8.57	1.37	1.46
1	ht	133	TRP	CA-CB	8.57	1.66	1.53
1	1K	174	ALA	CA-CB	8.57	1.66	1.53
1	hM	154	ARG	CA-C	8.57	1.63	1.52
1	j3	37	ILE	C-O	-8.57	1.17	1.24
1	lk	42	ALA	CA-C	8.57	1.64	1.52
1	5H	33	SER	CA-CB	8.56	1.66	1.54
1	b8	90	PRO	CA-C	-8.56	1.43	1.52
1	bU	65	ALA	N-CA	-8.56	1.36	1.46
1	5i	136	LEU	CA-CB	8.56	1.66	1.53
1	5B	134	ILE	CA-C	8.56	1.63	1.52
1	1h	184	TRP	N-CA	-8.56	1.35	1.46
1	kL	206	GLY	C-N	-8.56	1.25	1.33
1	lB	160	PRO	N-CA	-8.56	1.37	1.47
1	hG	192	GLN	N-CA	8.56	1.57	1.46
1	2M	84	HIS	ND1-CE1	8.56	1.41	1.32
1	6X	195	ASN	CA-C	8.56	1.64	1.52
1	77	2	ILE	N-CA	-8.56	1.36	1.46
1	1d	81	ASP	CA-C	8.56	1.63	1.52
1	L	93	PRO	C-N	8.56	1.40	1.33
1	7A	195	ASN	CA-C	8.56	1.62	1.53
1	98	193	ASN	CA-C	8.56	1.64	1.52
1	bn	2	ILE	CA-C	-8.56	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	de	188	THR	CA-C	8.56	1.61	1.53
1	4D	18	ARG	CA-C	8.56	1.64	1.52
1	6J	40	PHE	CA-C	-8.56	1.41	1.52
1	cq	123	PRO	C-N	8.56	1.43	1.33
1	iz	170	LYS	CA-C	8.55	1.63	1.52
1	l0	141	ILE	CA-CB	8.55	1.65	1.54
1	7y	120	HIS	ND1-CE1	8.55	1.41	1.32
1	bn	16	SER	C-N	8.55	1.43	1.34
1	bE	226	HIS	ND1-CE1	8.55	1.41	1.32
1	cM	210	THR	CA-C	-8.55	1.41	1.53
1	iY	135	ILE	C-N	8.55	1.45	1.33
1	kU	87	HIS	ND1-CE1	8.55	1.41	1.32
1	4Z	61	GLY	N-CA	8.55	1.53	1.44
1	6T	98	GLU	C-N	8.55	1.44	1.33
1	1l	132	ARG	CD-NE	8.55	1.58	1.46
1	f5	86	VAL	C-O	-8.55	1.15	1.24
1	fF	59	VAL	CA-C	-8.55	1.42	1.52
1	1l	212	GLU	CA-C	8.55	1.63	1.52
1	e2	178	SER	CA-CB	8.55	1.67	1.53
1	fd	227	LYS	CA-CB	8.55	1.64	1.53
1	io	227	LYS	CA-C	-8.55	1.42	1.52
1	16	111	LEU	CA-C	8.55	1.63	1.52
1	j1	8	GLY	CA-C	-8.55	1.43	1.52
1	2j	92	GLU	CA-C	-8.55	1.44	1.53
1	9	134	ILE	CA-CB	-8.55	1.43	1.54
1	in	125	PRO	CA-CB	8.54	1.58	1.53
1	eC	62	HIS	CE1-NE2	8.54	1.41	1.32
1	2o	124	ILE	CA-C	-8.54	1.46	1.53
1	jd	18	ARG	CA-C	8.54	1.63	1.52
1	lk	148	THR	N-CA	8.54	1.56	1.45
1	2P	14	ALA	C-N	8.54	1.44	1.33
1	69	37	ILE	CA-CB	8.54	1.58	1.54
1	6A	177	ALA	CA-C	8.54	1.64	1.52
1	7v	92	GLU	CA-C	-8.54	1.44	1.52
1	cb	57	ASN	CA-CB	8.54	1.66	1.53
1	fV	150	ILE	CA-C	-8.54	1.39	1.52
1	gq	29	GLU	CA-C	-8.54	1.41	1.52
1	5c	26	VAL	CA-C	-8.54	1.42	1.52
1	63	125	PRO	CA-C	8.54	1.62	1.53
1	7j	98	GLU	CA-C	8.54	1.62	1.52
1	ax	150	ILE	CA-C	-8.54	1.39	1.52
1	ce	131	LYS	CA-C	-8.54	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dK	146	SER	C-N	-8.54	1.23	1.34
1	is	66	MET	C-O	-8.54	1.14	1.24
1	6P	125	PRO	CA-C	-8.54	1.43	1.53
1	fL	22	ALA	N-CA	-8.54	1.35	1.46
1	dm	2	ILE	CA-CB	-8.53	1.44	1.54
1	fR	81	ASP	CA-CB	8.53	1.67	1.53
1	2	208	ALA	CA-CB	8.54	1.66	1.53
1	2l	95	GLN	N-CA	-8.53	1.36	1.46
1	4a	84	HIS	ND1-CE1	8.53	1.41	1.32
1	fu	13	GLN	N-CA	-8.53	1.34	1.45
1	9o	14	ALA	C-N	8.53	1.42	1.33
1	9x	160	PRO	C-N	8.53	1.44	1.33
1	cD	180	GLU	CA-C	-8.53	1.41	1.52
1	f0	120	HIS	ND1-CE1	8.53	1.41	1.32
1	c8	84	HIS	CA-CB	8.53	1.63	1.53
1	jC	141	ILE	C-N	8.53	1.44	1.33
1	9P	105	ALA	CA-C	8.53	1.64	1.52
1	fu	101	GLY	N-CA	8.53	1.56	1.45
1	M	145	TYR	CA-C	8.53	1.63	1.52
1	S	117	TRP	NE1-CE2	-8.53	1.28	1.37
1	28	24	VAL	CA-C	-8.53	1.42	1.52
1	dG	210	THR	CA-C	-8.53	1.41	1.53
1	v	89	GLY	CA-C	8.53	1.64	1.51
1	jq	87	HIS	ND1-CE1	8.53	1.41	1.32
1	kP	68	MET	CA-C	-8.53	1.41	1.52
1	ae	45	GLU	CA-CB	8.53	1.63	1.52
1	24	148	THR	CA-C	-8.53	1.42	1.52
1	2m	12	HIS	N-CA	-8.53	1.35	1.46
1	4M	198	CYS	C-N	8.53	1.45	1.33
1	4T	149	SER	N-CA	8.53	1.57	1.45
1	53	26	VAL	CA-CB	8.53	1.63	1.54
1	5H	226	HIS	CG-CD2	8.53	1.45	1.35
1	8o	193	ASN	CA-CB	8.53	1.68	1.53
1	jx	25	LYS	CA-C	8.52	1.63	1.52
1	bG	81	ASP	CA-C	8.52	1.63	1.52
1	k0	217	ALA	CA-C	-8.52	1.41	1.53
1	ld	157	PRO	CA-CB	8.52	1.65	1.53
1	64	138	LEU	CA-CB	8.52	1.67	1.53
1	8U	47	ALA	N-CA	-8.52	1.35	1.46
1	B	181	VAL	C-N	8.52	1.44	1.33
1	kX	230	VAL	CA-CB	-8.52	1.44	1.53
1	lj	9	GLN	CA-CB	8.52	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4H	107	THR	N-CA	8.52	1.57	1.46
1	jc	123	PRO	C-N	8.52	1.41	1.33
1	k7	217	ALA	CA-C	8.52	1.63	1.52
1	3S	124	ILE	N-CA	-8.52	1.38	1.46
1	4n	68	MET	C-N	8.52	1.44	1.33
1	c4	117	TRP	NE1-CE2	-8.52	1.28	1.37
1	dM	211	LEU	N-CA	-8.52	1.36	1.46
1	J	5	ASN	C-N	8.52	1.44	1.33
1	1L	61	GLY	N-CA	8.52	1.55	1.45
1	iO	17	PRO	C-N	8.52	1.45	1.33
1	jC	59	VAL	CA-CB	8.52	1.64	1.54
1	kd	16	SER	CA-C	8.52	1.62	1.52
1	l0	120	HIS	CD2-NE2	8.52	1.47	1.37
1	6N	62	HIS	CE1-NE2	8.52	1.41	1.32
1	7G	83	LEU	CA-C	8.52	1.64	1.52
1	96	92	GLU	CA-C	8.52	1.61	1.53
1	ca	120	HIS	ND1-CE1	8.52	1.41	1.32
1	1l	101	GLY	CA-C	8.52	1.61	1.51
1	fP	120	HIS	ND1-CE1	8.52	1.41	1.32
1	70	117	TRP	CA-CB	8.51	1.66	1.53
1	cX	124	ILE	CA-C	8.51	1.60	1.52
1	1B	139	ASN	C-N	8.51	1.44	1.33
1	17	84	HIS	CD2-NE2	8.51	1.47	1.37
1	cv	228	ALA	CA-C	8.51	1.63	1.52
1	fE	120	HIS	ND1-CE1	8.51	1.41	1.32
1	fZ	160	PRO	CA-C	8.51	1.62	1.52
1	v	197	ASP	N-CA	-8.51	1.35	1.46
1	2L	113	GLU	C-N	8.51	1.44	1.33
1	8D	34	PRO	CA-CB	8.51	1.67	1.53
1	an	137	GLY	CA-C	-8.51	1.40	1.51
1	cJ	84	HIS	C-N	-8.51	1.24	1.33
1	bF	165	VAL	CA-C	8.51	1.63	1.52
1	1P	218	CYS	CA-CB	8.51	1.65	1.53
1	3m	229	ARG	CD-NE	8.51	1.58	1.46
1	5x	5	ASN	CA-C	8.51	1.64	1.52
1	6v	120	HIS	ND1-CE1	8.51	1.41	1.32
1	jm	129	ILE	CA-CB	-8.51	1.45	1.54
1	5z	215	MET	N-CA	-8.51	1.35	1.46
1	7d	125	PRO	CA-C	-8.51	1.45	1.53
1	dF	34	PRO	CA-C	8.51	1.65	1.52
1	id	61	GLY	CA-C	8.50	1.64	1.52
1	ku	71	GLU	N-CA	-8.50	1.35	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	53	144	MET	CA-C	8.50	1.64	1.52
1	6k	183	ASN	CA-C	8.50	1.63	1.52
1	a3	196	PRO	N-CA	-8.50	1.36	1.47
1	ai	84	HIS	CE1-NE2	-8.50	1.24	1.32
1	cc	84	HIS	ND1-CE1	8.50	1.41	1.32
1	cI	78	ALA	C-N	8.50	1.45	1.33
1	fx	143	ARG	CA-CB	8.50	1.67	1.53
1	fv	203	LYS	CA-CB	8.50	1.66	1.53
1	jB	96	MET	CA-C	8.50	1.63	1.52
1	jE	123	PRO	C-N	8.50	1.43	1.33
1	3S	10	MET	CA-CB	8.50	1.66	1.53
1	jB	183	ASN	CA-C	-8.50	1.41	1.52
1	5B	173	ARG	CD-NE	8.50	1.58	1.46
1	6s	8	GLY	N-CA	8.50	1.54	1.45
1	8O	26	VAL	C-N	8.50	1.44	1.33
1	90	51	ASP	CA-C	8.50	1.63	1.52
1	cL	84	HIS	ND1-CE1	8.50	1.41	1.32
1	eO	82	ARG	CA-CB	8.50	1.66	1.53
1	1v	37	ILE	CA-CB	-8.50	1.49	1.54
1	7	24	VAL	N-CA	-8.50	1.36	1.46
1	4l	33	SER	CA-C	8.49	1.61	1.53
1	bh	83	LEU	N-CA	8.49	1.56	1.46
1	kz	84	HIS	N-CA	-8.49	1.37	1.46
1	kD	162	ARG	CA-CB	8.49	1.67	1.53
1	25	174	ALA	C-O	-8.49	1.13	1.24
1	ly	29	GLU	CA-CB	8.49	1.67	1.53
1	3E	59	VAL	CA-CB	-8.49	1.44	1.53
1	8J	23	TRP	CA-CB	8.49	1.66	1.53
1	bv	123	PRO	C-N	8.49	1.41	1.33
1	c4	111	LEU	C-O	-8.49	1.14	1.24
1	P	12	HIS	ND1-CE1	8.49	1.41	1.32
1	hM	193	ASN	C-N	8.49	1.44	1.33
1	kW	132	ARG	CD-NE	8.49	1.58	1.46
1	hS	68	MET	C-N	8.49	1.44	1.33
1	48	220	GLY	C-N	8.49	1.43	1.33
1	5y	124	ILE	N-CA	-8.49	1.40	1.46
1	fj	58	THR	C-N	8.49	1.43	1.33
1	iv	71	GLU	C-N	8.49	1.45	1.33
1	lN	230	VAL	CA-C	-8.49	1.42	1.52
1	3Z	55	MET	CA-C	-8.49	1.41	1.52
1	Z	209	ALA	N-CA	-8.49	1.35	1.46
1	dC	158	LYS	CA-CB	8.49	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eB	40	PHE	CB-CG	8.49	1.70	1.50
1	c8	37	ILE	CA-CB	8.48	1.58	1.54
1	g9	23	TRP	NE1-CE2	-8.48	1.28	1.37
1	2g	5	ASN	CA-C	-8.48	1.42	1.52
1	dj	225	GLY	N-CA	8.48	1.57	1.45
1	hp	15	ILE	CA-C	8.48	1.62	1.52
1	2Y	109	SER	N-CA	-8.48	1.36	1.46
1	O	154	ARG	CA-C	-8.48	1.42	1.52
1	3V	125	PRO	CA-C	8.48	1.60	1.53
1	8z	87	HIS	ND1-CE1	8.48	1.41	1.32
1	8	137	GLY	CA-C	8.48	1.61	1.52
1	1F	229	ARG	C-N	8.48	1.44	1.33
1	i0	123	PRO	C-N	8.48	1.40	1.33
1	if	83	LEU	C-N	8.48	1.41	1.33
1	jP	84	HIS	N-CA	8.48	1.55	1.46
1	ln	146	SER	CA-C	-8.48	1.43	1.52
1	lt	121	ASN	CA-C	8.48	1.61	1.52
1	6C	90	PRO	N-CA	-8.48	1.38	1.47
1	a8	140	LYS	CA-C	-8.48	1.41	1.52
1	br	12	HIS	ND1-CE1	8.48	1.41	1.32
1	cj	224	PRO	N-CD	-8.48	1.35	1.47
1	1f	147	PRO	N-CD	-8.48	1.35	1.47
1	f7	163	ASP	CA-C	8.48	1.64	1.52
1	r	160	PRO	CA-C	8.48	1.62	1.52
1	jJ	12	HIS	ND1-CE1	8.47	1.41	1.32
1	hD	26	VAL	CA-CB	-8.47	1.44	1.54
1	kU	229	ARG	C-N	8.47	1.43	1.34
1	2v	23	TRP	C-N	8.47	1.44	1.33
1	59	35	GLU	C-N	8.47	1.44	1.33
1	5D	14	ALA	C-N	8.47	1.43	1.33
1	6p	9	GLN	CA-CB	8.47	1.65	1.53
1	eF	173	ARG	CA-C	8.47	1.63	1.52
1	D	53	ASN	N-CA	-8.47	1.36	1.46
1	ie	217	ALA	CA-C	-8.47	1.42	1.53
1	5L	185	MET	CA-CB	8.47	1.66	1.53
1	a0	166	ASP	CA-C	-8.47	1.42	1.52
1	jY	46	GLY	CA-C	-8.47	1.40	1.51
1	85	121	ASN	CA-C	8.47	1.61	1.52
1	9v	18	ARG	CA-C	8.47	1.64	1.52
1	h7	50	GLN	CA-CB	8.47	1.66	1.53
1	bI	31	ALA	C-O	-8.47	1.15	1.24
1	an	165	VAL	CA-CB	8.47	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	84	HIS	N-CA	-8.47	1.36	1.46
1	i9	84	HIS	C-N	8.47	1.43	1.33
1	47	159	GLU	CA-C	8.46	1.61	1.52
1	bz	213	GLU	CA-C	8.47	1.63	1.52
1	4D	85	PRO	C-N	8.46	1.44	1.33
1	90	140	LYS	C-N	8.46	1.44	1.33
1	c8	121	ASN	CA-C	8.46	1.59	1.52
1	id	73	ILE	CA-CB	-8.46	1.44	1.54
1	a8	228	ALA	CA-C	-8.46	1.41	1.53
1	co	50	GLN	CA-C	8.46	1.63	1.52
1	cK	47	ALA	CA-C	8.46	1.63	1.52
1	fa	199	LYS	C-N	8.46	1.45	1.33
1	hL	53	ASN	N-CA	-8.46	1.36	1.46
1	kW	190	LEU	CA-CB	8.46	1.66	1.53
1	47	111	LEU	N-CA	8.46	1.56	1.46
1	4D	87	HIS	CB-CG	8.46	1.61	1.50
1	69	92	GLU	CA-C	-8.46	1.43	1.52
1	6o	64	ALA	CA-C	8.46	1.63	1.52
1	9h	229	ARG	CD-NE	8.46	1.58	1.46
1	dG	167	ARG	CD-NE	8.46	1.58	1.46
1	lh	37	ILE	CA-C	8.46	1.59	1.52
1	dB	184	TRP	N-CA	8.46	1.56	1.46
1	eI	14	ALA	CA-C	8.46	1.64	1.52
1	en	150	ILE	CA-C	8.46	1.64	1.52
1	8S	28	GLU	N-CA	8.45	1.56	1.46
1	ah	47	ALA	CA-C	8.45	1.63	1.52
1	d8	134	ILE	CA-C	8.45	1.63	1.52
1	ec	123	PRO	C-N	8.45	1.40	1.33
1	fL	120	HIS	CE1-NE2	-8.45	1.24	1.32
1	hd	67	GLN	N-CA	8.45	1.56	1.46
1	jE	144	MET	C-N	8.45	1.45	1.33
1	kL	36	VAL	CA-CB	-8.45	1.44	1.54
1	lb	132	ARG	CD-NE	8.45	1.58	1.46
1	5I	99	PRO	CA-CB	-8.45	1.42	1.53
1	6j	221	VAL	CA-C	8.45	1.64	1.52
1	a8	155	GLN	N-CA	8.45	1.56	1.45
1	16	125	PRO	CA-CB	8.45	1.58	1.53
1	cy	124	ILE	CA-C	8.45	1.59	1.53
1	cI	90	PRO	CA-CB	8.45	1.65	1.53
1	er	111	LEU	N-CA	-8.45	1.36	1.46
1	fN	37	ILE	CA-CB	8.45	1.58	1.54
1	iX	215	MET	CA-CB	8.45	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jB	171	THR	CA-C	8.45	1.63	1.52
1	hQ	12	HIS	CG-CD2	-8.45	1.26	1.35
1	jf	26	VAL	CA-C	8.45	1.63	1.52
1	9i	55	MET	CA-CB	8.45	1.66	1.53
1	a5	211	LEU	CA-CB	8.45	1.66	1.53
1	1l	80	TRP	CA-C	8.45	1.63	1.52
1	8C	159	GLU	CA-C	8.45	1.61	1.53
1	eR	163	ASP	CA-C	8.45	1.63	1.52
1	eT	120	HIS	ND1-CE1	8.45	1.41	1.32
1	1R	73	ILE	CA-CB	-8.45	1.44	1.54
1	l2	39	MET	CA-C	-8.45	1.42	1.52
1	5E	25	LYS	C-N	8.45	1.44	1.33
1	am	210	THR	CA-C	-8.45	1.41	1.53
1	d0	105	ALA	C-N	8.45	1.43	1.33
1	6W	40	PHE	C-O	-8.44	1.14	1.24
1	8f	7	GLN	CA-CB	8.44	1.65	1.53
1	cw	28	GLU	CA-CB	8.45	1.66	1.53
1	dx	124	ILE	CA-CB	-8.45	1.45	1.53
1	gl	85	PRO	CA-CB	8.44	1.65	1.53
1	3n	62	HIS	CE1-NE2	8.44	1.41	1.32
1	8n	164	TYR	CA-CB	8.44	1.66	1.53
1	ah	12	HIS	ND1-CE1	8.44	1.41	1.32
1	d9	74	ASN	N-CA	8.44	1.56	1.46
1	ew	197	ASP	CA-CB	8.44	1.66	1.53
1	fV	3	VAL	CA-C	-8.44	1.42	1.52
1	ga	81	ASP	CA-C	8.44	1.64	1.52
1	1D	13	GLN	N-CA	8.44	1.56	1.46
1	1H	158	LYS	CA-C	-8.44	1.42	1.52
1	1M	124	ILE	CA-C	8.44	1.59	1.53
1	i2	226	HIS	ND1-CE1	8.44	1.41	1.32
1	3m	164	TYR	CA-CB	8.44	1.66	1.53
1	3R	30	LYS	C-N	8.44	1.45	1.34
1	4S	9	GLN	CA-C	8.44	1.64	1.52
1	7V	125	PRO	CA-C	-8.44	1.45	1.53
1	c1	154	ARG	CD-NE	8.44	1.58	1.46
1	es	154	ARG	CA-CB	8.44	1.66	1.53
1	eZ	21	ASN	CA-CB	8.44	1.66	1.53
1	fN	169	TYR	CA-C	8.44	1.63	1.52
1	3O	195	ASN	CA-C	8.44	1.61	1.53
1	hs	1	PRO	N-CD	8.44	1.59	1.47
1	kX	177	ALA	CA-C	8.44	1.64	1.52
1	6O	88	ALA	CA-C	-8.44	1.41	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bt	183	ASN	N-CA	8.44	1.56	1.46
1	bz	115	ILE	N-CA	8.44	1.56	1.46
1	bQ	37	ILE	CA-C	8.44	1.60	1.52
1	jj	45	GLU	C-N	8.43	1.41	1.33
1	4I	38	PRO	CA-CB	8.43	1.65	1.53
1	50	101	GLY	CA-C	-8.43	1.42	1.52
1	6	75	GLU	N-CA	-8.43	1.35	1.46
1	9g	153	ILE	CA-CB	8.43	1.64	1.54
1	9r	87	HIS	ND1-CE1	8.43	1.41	1.32
1	eq	19	THR	CA-C	8.43	1.63	1.52
1	eN	200	THR	N-CA	8.43	1.56	1.46
1	f2	83	LEU	C-N	8.43	1.41	1.33
1	gj	132	ARG	CA-C	8.43	1.63	1.52
1	jh	203	LYS	CA-CB	8.43	1.67	1.53
1	k0	120	HIS	CA-CB	8.43	1.66	1.53
1	8J	207	PRO	N-CA	-8.43	1.39	1.47
1	cV	29	GLU	CA-C	-8.43	1.41	1.52
1	fm	124	ILE	CA-C	8.43	1.59	1.53
1	1z	229	ARG	CA-CB	8.43	1.67	1.53
1	4p	120	HIS	ND1-CE1	8.43	1.41	1.32
1	aU	151	LEU	CA-C	8.43	1.63	1.52
1	dK	120	HIS	ND1-CE1	8.43	1.41	1.32
1	fK	121	ASN	CA-C	8.43	1.59	1.52
1	2z	82	ARG	CD-NE	8.43	1.58	1.46
1	5g	118	MET	CA-C	8.43	1.63	1.52
1	5R	125	PRO	CA-C	8.43	1.60	1.53
1	cd	57	ASN	N-CA	8.43	1.56	1.46
1	dc	163	ASP	CA-C	8.43	1.63	1.52
1	fY	146	SER	C-O	-8.43	1.18	1.25
1	gr	190	LEU	CA-C	8.42	1.63	1.52
1	kU	131	LYS	CA-CB	8.42	1.66	1.53
1	44	152	ASP	C-N	8.42	1.44	1.33
1	62	37	ILE	CA-C	8.42	1.60	1.52
1	12	70	LYS	CA-C	-8.42	1.42	1.52
1	d9	13	GLN	CA-C	8.42	1.62	1.52
1	9u	127	GLY	N-CA	8.42	1.56	1.45
1	ax	228	ALA	CA-C	8.42	1.63	1.52
1	b2	84	HIS	CA-C	8.42	1.61	1.52
1	ii	224	PRO	CA-CB	8.42	1.62	1.53
1	iS	90	PRO	N-CA	8.42	1.56	1.47
1	k9	30	LYS	CA-C	8.42	1.63	1.52
1	l9	82	ARG	CA-CB	8.42	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5f	133	TRP	C-N	8.42	1.44	1.33
1	2q	126	VAL	C-N	8.42	1.44	1.33
1	be	115	ILE	N-CA	-8.42	1.36	1.46
1	gb	87	HIS	ND1-CE1	8.42	1.41	1.32
1	iY	111	LEU	N-CA	-8.42	1.36	1.46
1	jY	151	LEU	CA-C	8.42	1.64	1.52
1	2d	215	MET	CA-C	8.42	1.64	1.52
1	2Q	199	LYS	CA-C	-8.42	1.41	1.52
1	4T	87	HIS	C-N	8.42	1.46	1.33
1	5P	191	VAL	CA-CB	-8.42	1.45	1.55
1	el	7	GLN	CA-C	8.42	1.63	1.52
1	hw	143	ARG	CA-C	-8.41	1.42	1.52
1	iV	125	PRO	N-CA	-8.41	1.36	1.47
1	kB	95	GLN	CA-C	-8.41	1.42	1.52
1	lM	159	GLU	C-N	8.41	1.44	1.33
1	6s	37	ILE	CA-C	8.41	1.59	1.52
1	6U	123	PRO	C-N	8.41	1.41	1.33
1	9V	72	THR	CA-C	-8.41	1.41	1.52
1	bV	188	THR	CA-C	-8.41	1.47	1.52
1	d0	210	THR	CA-C	-8.41	1.41	1.52
1	5n	128	GLU	C-N	8.41	1.44	1.33
1	a6	37	ILE	CA-C	8.41	1.59	1.52
1	bT	119	THR	N-CA	8.41	1.55	1.46
1	ey	198	CYS	CA-C	-8.41	1.40	1.52
1	gF	146	SER	CA-CB	-8.41	1.43	1.53
1	iL	98	GLU	CA-C	8.41	1.62	1.52
1	11	214	MET	CA-C	8.41	1.63	1.52
1	es	37	ILE	CA-CB	8.41	1.58	1.54
1	iK	210	THR	N-CA	8.41	1.56	1.46
1	jd	54	THR	CA-C	-8.41	1.41	1.52
1	4w	112	GLN	C-N	8.41	1.45	1.33
1	6v	131	LYS	N-CA	8.41	1.56	1.46
1	ba	102	SER	N-CA	8.41	1.56	1.46
1	hR	172	LEU	CA-CB	8.41	1.66	1.53
1	je	22	ALA	CA-CB	8.41	1.66	1.53
1	db	3	VAL	C-N	8.41	1.45	1.33
1	iw	149	SER	CA-C	8.41	1.62	1.52
1	kC	185	MET	N-CA	-8.41	1.36	1.46
1	2d	55	MET	CA-CB	8.41	1.67	1.53
1	55	183	ASN	CA-CB	8.41	1.66	1.53
1	9A	101	GLY	N-CA	8.41	1.56	1.45
1	S	115	ILE	N-CA	8.41	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l2	135	ILE	CA-C	-8.40	1.40	1.52
1	2T	124	ILE	CA-C	-8.40	1.46	1.53
1	4j	138	LEU	C-N	8.40	1.45	1.33
1	54	25	LYS	CA-CB	8.40	1.66	1.53
1	aQ	193	ASN	N-CA	-8.40	1.35	1.46
1	1x	156	GLY	C-N	-8.40	1.24	1.34
1	y	62	HIS	ND1-CE1	8.40	1.41	1.32
1	D	142	VAL	CA-CB	-8.40	1.44	1.54
1	2I	37	ILE	CA-C	8.40	1.60	1.52
1	52	84	HIS	ND1-CE1	8.40	1.41	1.32
1	8J	222	GLY	N-CA	8.40	1.56	1.44
1	9o	102	SER	CA-CB	8.40	1.67	1.53
1	bE	160	PRO	CA-C	8.40	1.60	1.52
1	bf	28	GLU	CA-CB	8.40	1.66	1.53
1	hB	129	ILE	CA-CB	-8.40	1.44	1.54
1	hZ	226	HIS	ND1-CE1	8.40	1.41	1.32
1	2w	42	ALA	N-CA	8.40	1.56	1.46
1	67	79	GLU	CA-C	8.40	1.63	1.52
1	6D	52	LEU	CA-CB	8.40	1.66	1.53
1	9q	184	TRP	CA-CB	8.40	1.66	1.53
1	9M	77	ALA	CA-C	8.40	1.63	1.52
1	aS	134	ILE	CA-CB	-8.40	1.44	1.54
1	cR	125	PRO	CA-C	-8.40	1.44	1.53
1	hN	136	LEU	C-N	8.40	1.44	1.33
1	jU	115	ILE	CA-CB	8.40	1.65	1.54
1	lP	155	GLN	C-N	8.40	1.46	1.33
1	8Q	87	HIS	CA-C	8.40	1.64	1.53
1	38	189	LEU	CA-C	-8.39	1.42	1.52
1	fd	32	PHE	CA-CB	8.39	1.66	1.53
1	hm	150	ILE	CA-CB	-8.39	1.43	1.54
1	jO	226	HIS	CD2-NE2	8.39	1.47	1.37
1	6u	19	THR	C-N	8.39	1.45	1.33
1	f3	214	MET	N-CA	-8.39	1.36	1.46
1	fL	4	GLN	N-CA	-8.39	1.35	1.46
1	1K	95	GLN	CA-CB	8.39	1.65	1.53
1	kx	124	ILE	CA-CB	8.39	1.62	1.53
1	43	16	SER	CA-CB	8.39	1.66	1.53
1	6G	56	LEU	CA-CB	8.39	1.66	1.53
1	f7	4	GLN	N-CA	-8.39	1.35	1.46
1	jM	100	ARG	C-N	8.39	1.45	1.33
1	3F	23	TRP	NE1-CE2	-8.39	1.28	1.37
1	9c	226	HIS	CA-CB	8.39	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	191	VAL	CA-CB	-8.39	1.43	1.54
1	gd	123	PRO	C-N	8.39	1.40	1.32
1	3j	72	THR	CA-C	-8.39	1.41	1.52
1	7b	210	THR	CA-CB	-8.39	1.40	1.53
1	8E	16	SER	CA-CB	8.39	1.65	1.53
1	aO	229	ARG	CA-C	8.39	1.62	1.52
1	cA	30	LYS	N-CA	-8.39	1.35	1.46
1	i	164	TYR	CA-CB	8.39	1.66	1.53
1	gL	120	HIS	CA-CB	8.39	1.66	1.53
1	2u	114	GLN	N-CA	-8.39	1.36	1.46
1	lA	51	ASP	N-CA	8.38	1.56	1.46
1	9y	144	MET	CA-C	-8.38	1.42	1.52
1	ah	93	PRO	CA-C	8.38	1.62	1.52
1	aA	101	GLY	N-CA	8.38	1.56	1.45
1	bc	223	GLY	N-CA	8.38	1.56	1.44
1	df	212	GLU	CA-C	8.38	1.63	1.52
1	dp	146	SER	CA-C	8.38	1.62	1.52
1	dz	125	PRO	CA-C	8.38	1.64	1.52
1	f4	226	HIS	CB-CG	8.38	1.61	1.50
1	n	226	HIS	ND1-CE1	8.38	1.41	1.32
1	hS	11	VAL	CA-C	8.38	1.61	1.52
1	lz	148	THR	CA-C	8.38	1.64	1.52
1	3q	14	ALA	CA-C	8.38	1.63	1.52
1	84	210	THR	CA-C	8.38	1.63	1.52
1	5W	29	GLU	CA-CB	8.38	1.67	1.53
1	t	37	ILE	CA-C	8.38	1.59	1.52
1	2S	120	HIS	ND1-CE1	8.38	1.41	1.32
1	3j	172	LEU	C-N	8.38	1.44	1.33
1	k3	37	ILE	CA-CB	-8.38	1.49	1.54
1	l9	84	HIS	CA-CB	8.38	1.62	1.53
1	73	164	TYR	CA-C	8.38	1.63	1.52
1	dC	183	ASN	C-N	8.38	1.45	1.33
1	9O	135	ILE	CA-CB	-8.38	1.44	1.54
1	cf	40	PHE	CA-CB	8.38	1.66	1.53
1	ci	165	VAL	CA-C	8.38	1.63	1.52
1	k	124	ILE	CA-C	8.38	1.59	1.53
1	gg	126	VAL	CA-CB	-8.38	1.44	1.54
1	gI	73	ILE	C-N	8.38	1.44	1.33
1	4T	163	ASP	CA-C	8.37	1.63	1.52
1	6C	117	TRP	NE1-CE2	-8.38	1.28	1.37
1	ah	125	PRO	CA-CB	-8.37	1.48	1.53
1	bt	121	ASN	C-N	8.38	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	en	37	ILE	CA-CB	8.38	1.65	1.54
1	L	136	LEU	CA-CB	8.37	1.66	1.53
1	jI	87	HIS	ND1-CE1	8.37	1.41	1.32
1	46	53	ASN	CA-C	8.37	1.63	1.52
1	1c	152	ASP	C-N	8.37	1.45	1.33
1	11	62	HIS	CG-ND1	8.37	1.47	1.38
1	bo	87	HIS	CB-CG	-8.37	1.38	1.50
1	bM	113	GLU	N-CA	-8.37	1.36	1.46
1	km	30	LYS	CA-CB	8.37	1.67	1.53
1	4G	92	GLU	CA-C	8.37	1.62	1.52
1	f7	16	SER	CA-C	8.37	1.61	1.53
1	gT	150	ILE	CA-C	8.37	1.61	1.52
1	hI	129	ILE	N-CA	-8.37	1.36	1.46
1	iP	54	THR	CA-C	8.37	1.63	1.52
1	iZ	178	SER	CA-CB	8.37	1.65	1.53
1	ji	192	GLN	CA-CB	8.37	1.66	1.53
1	jr	84	HIS	ND1-CE1	8.37	1.41	1.32
1	5W	75	GLU	N-CA	-8.37	1.35	1.46
1	6f	175	GLU	CA-C	8.37	1.63	1.52
1	6z	205	LEU	CA-C	-8.37	1.41	1.52
1	aQ	172	LEU	CA-C	8.37	1.64	1.52
1	dm	2	ILE	CA-C	8.37	1.61	1.52
1	ey	16	SER	CA-C	8.37	1.63	1.53
1	fI	120	HIS	CA-C	8.37	1.64	1.52
1	2x	38	PRO	CA-CB	8.37	1.65	1.53
1	6P	187	GLU	N-CA	8.37	1.56	1.46
1	bp	109	SER	CA-CB	8.37	1.64	1.53
1	gH	13	GLN	N-CA	8.36	1.56	1.45
1	7P	63	GLN	C-N	8.36	1.43	1.33
1	9S	133	TRP	C-N	8.37	1.44	1.33
1	eu	5	ASN	CA-CB	8.37	1.67	1.53
1	hJ	164	TYR	CA-CB	8.36	1.66	1.53
1	iZ	112	GLN	C-N	8.36	1.44	1.33
1	jY	162	ARG	CA-C	-8.36	1.44	1.52
1	kn	140	LYS	N-CA	-8.36	1.34	1.46
1	7R	12	HIS	ND1-CE1	8.36	1.41	1.32
1	9z	15	ILE	CA-C	8.36	1.62	1.52
1	1q	121	ASN	CA-C	-8.36	1.43	1.52
1	ir	32	PHE	CA-CB	8.36	1.62	1.52
1	28	224	PRO	CA-C	8.36	1.62	1.52
1	8U	26	VAL	CA-C	8.36	1.63	1.52
1	cv	146	SER	CA-C	8.36	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3c	154	ARG	CD-NE	8.36	1.57	1.46
1	9s	44	SER	CA-CB	8.36	1.65	1.53
1	1b	92	GLU	C-N	-8.36	1.25	1.34
1	dO	168	PHE	N-CA	-8.36	1.36	1.46
1	hL	15	ILE	CA-C	8.36	1.62	1.52
1	i8	80	TRP	CA-C	8.36	1.63	1.52
1	cH	36	VAL	CA-C	8.36	1.63	1.52
1	3V	78	ALA	C-O	-8.36	1.14	1.24
1	7v	221	VAL	CA-CB	8.36	1.64	1.54
1	az	169	TYR	C-N	8.36	1.44	1.33
1	bj	91	ILE	CA-C	8.36	1.63	1.52
1	fM	152	ASP	CA-CB	8.36	1.67	1.53
1	1o	62	HIS	CA-CB	8.36	1.65	1.53
1	f0	84	HIS	ND1-CE1	8.35	1.41	1.32
1	fm	159	GLU	CA-C	-8.35	1.44	1.53
1	gr	87	HIS	CA-CB	8.35	1.67	1.53
1	32	201	ILE	CA-CB	8.35	1.64	1.54
1	fw	34	PRO	CA-C	8.35	1.64	1.52
1	gZ	8	GLY	CA-C	-8.35	1.43	1.52
1	kR	124	ILE	N-CA	8.35	1.52	1.46
1	2m	115	ILE	CA-CB	8.35	1.64	1.54
1	2W	229	ARG	N-CA	-8.35	1.35	1.45
1	9N	225	GLY	CA-C	-8.35	1.40	1.51
1	dV	226	HIS	ND1-CE1	8.35	1.41	1.32
1	l	68	MET	CA-C	-8.35	1.42	1.52
1	39	18	ARG	CA-C	8.35	1.63	1.52
1	3Z	120	HIS	ND1-CE1	8.35	1.41	1.32
1	7a	87	HIS	CA-CB	8.35	1.66	1.53
1	8P	91	ILE	CA-CB	-8.35	1.46	1.54
1	6z	37	ILE	CA-C	8.35	1.61	1.52
1	7N	159	GLU	N-CA	-8.35	1.37	1.46
1	8h	91	ILE	CA-C	8.35	1.62	1.52
1	fr	37	ILE	CA-C	8.35	1.61	1.52
1	fU	12	HIS	CE1-NE2	8.35	1.40	1.32
1	4g	84	HIS	CA-C	8.35	1.63	1.52
1	78	84	HIS	CA-CB	8.35	1.63	1.53
1	aZ	228	ALA	N-CA	-8.35	1.35	1.46
1	h6	218	CYS	CA-CB	8.35	1.66	1.53
1	4r	132	ARG	CD-NE	8.35	1.57	1.46
1	71	137	GLY	CA-C	8.35	1.61	1.52
1	9c	27	VAL	CA-CB	-8.35	1.44	1.54
1	bS	206	GLY	C-N	-8.35	1.23	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cn	226	HIS	CD2-NE2	8.35	1.47	1.37
1	f1	13	GLN	CA-C	8.35	1.63	1.52
1	fc	92	GLU	CA-C	8.35	1.63	1.52
1	t	230	VAL	CA-C	-8.35	1.42	1.52
1	hx	84	HIS	ND1-CE1	8.34	1.40	1.32
1	k2	178	SER	CA-C	8.34	1.63	1.52
1	8V	192	GLN	N-CA	-8.34	1.36	1.46
1	ds	21	ASN	CA-CB	8.34	1.66	1.53
1	D	39	MET	N-CA	-8.34	1.36	1.46
1	bj	154	ARG	CA-CB	8.34	1.66	1.53
1	lA	41	SER	CA-CB	8.34	1.66	1.53
1	4g	121	ASN	CA-CB	8.34	1.65	1.53
1	if	143	ARG	CA-C	8.34	1.63	1.52
1	2X	91	ILE	CA-CB	-8.34	1.44	1.54
1	hB	37	ILE	CA-C	-8.34	1.45	1.52
1	kE	201	ILE	CA-CB	8.34	1.64	1.54
1	ct	64	ALA	CA-C	-8.34	1.42	1.52
1	j8	148	THR	CA-C	8.34	1.64	1.52
1	kc	7	GLN	CA-CB	8.34	1.67	1.53
1	l4	170	LYS	CA-C	8.34	1.63	1.52
1	2M	83	LEU	C-N	8.34	1.41	1.33
1	2O	12	HIS	N-CA	8.34	1.56	1.46
1	c2	227	LYS	CA-CB	8.34	1.63	1.53
1	5H	228	ALA	N-CA	-8.34	1.36	1.46
1	7Z	154	ARG	N-CA	-8.34	1.35	1.46
1	5W	26	VAL	CA-CB	8.34	1.63	1.54
1	c2	2	ILE	N-CA	8.34	1.55	1.46
1	gQ	64	ALA	CA-C	8.33	1.63	1.52
1	ie	180	GLU	N-CA	-8.33	1.35	1.46
1	kg	165	VAL	CA-C	8.33	1.63	1.52
1	lg	189	LEU	N-CA	8.33	1.56	1.46
1	li	226	HIS	ND1-CE1	8.33	1.40	1.32
1	3v	4	GLN	C-N	8.33	1.45	1.33
1	6u	184	TRP	C-N	8.33	1.45	1.33
1	ad	98	GLU	CA-C	8.33	1.62	1.53
1	de	158	LYS	CA-CB	8.33	1.66	1.54
1	cs	97	ARG	CA-C	8.33	1.64	1.52
1	cD	55	MET	CA-C	8.33	1.64	1.52
1	g4	219	GLN	CA-C	-8.33	1.42	1.52
1	z	78	ALA	CA-C	-8.33	1.42	1.52
1	hZ	78	ALA	CA-C	8.33	1.63	1.52
1	71	2	ILE	C-N	8.33	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9S	99	PRO	N-CA	-8.33	1.36	1.47
1	M	190	LEU	N-CA	-8.33	1.36	1.46
1	ci	151	LEU	CA-CB	8.33	1.67	1.53
1	R	132	ARG	CA-CB	8.33	1.66	1.53
1	hV	91	ILE	CA-CB	-8.33	1.45	1.54
1	i7	15	ILE	CA-CB	-8.33	1.43	1.54
1	iE	124	ILE	CA-C	-8.33	1.46	1.52
1	2Z	84	HIS	ND1-CE1	8.33	1.40	1.32
1	3B	120	HIS	ND1-CE1	8.33	1.40	1.32
1	3O	219	GLN	N-CA	-8.33	1.35	1.46
1	5p	54	THR	CA-C	8.33	1.63	1.52
1	bm	91	ILE	N-CA	8.33	1.56	1.46
1	el	95	GLN	CA-C	8.33	1.64	1.52
1	x	216	THR	C-N	8.33	1.45	1.34
1	28	72	THR	CA-CB	8.32	1.66	1.53
1	lv	196	PRO	N-CA	-8.32	1.36	1.47
1	5z	120	HIS	ND1-CE1	8.32	1.40	1.32
1	cc	117	TRP	C-N	8.32	1.45	1.34
1	gN	99	PRO	N-CA	-8.32	1.37	1.47
1	km	165	VAL	CA-CB	-8.32	1.45	1.54
1	3d	56	LEU	C-N	8.32	1.44	1.33
1	3h	149	SER	C-N	8.32	1.42	1.34
1	5t	37	ILE	CA-CB	8.32	1.58	1.54
1	87	207	PRO	CA-CB	8.32	1.64	1.53
1	8a	154	ARG	CD-NE	8.32	1.57	1.46
1	f0	125	PRO	CA-CB	8.32	1.59	1.53
1	gI	128	GLU	C-N	8.32	1.44	1.33
1	gU	188	THR	CA-C	-8.32	1.42	1.52
1	hf	128	GLU	CA-C	8.32	1.63	1.52
1	kC	92	GLU	CA-C	8.32	1.61	1.53
1	4N	62	HIS	ND1-CE1	-8.32	1.24	1.32
1	6s	13	GLN	CA-C	-8.32	1.42	1.52
1	ft	37	ILE	CA-CB	8.32	1.58	1.54
1	8A	130	TYR	CA-C	-8.32	1.42	1.52
1	bw	135	ILE	CA-CB	-8.32	1.44	1.54
1	bx	132	ARG	CA-C	-8.32	1.42	1.52
1	bM	54	THR	CA-C	8.32	1.63	1.52
1	eV	128	GLU	N-CA	-8.32	1.36	1.46
1	fW	175	GLU	CA-CB	8.32	1.66	1.53
1	w	29	GLU	CA-C	-8.32	1.42	1.52
1	lI	114	GLN	CA-C	8.32	1.63	1.52
1	lR	123	PRO	CA-CB	8.32	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jh	71	GLU	CA-C	8.32	1.64	1.52
1	lo	214	MET	N-CA	-8.32	1.36	1.46
1	47	199	LYS	CA-C	-8.32	1.42	1.52
1	4y	117	TRP	CA-C	-8.32	1.42	1.52
1	7x	120	HIS	ND1-CE1	8.32	1.40	1.32
1	9R	203	LYS	N-CA	-8.32	1.36	1.46
1	dO	3	VAL	CA-C	-8.32	1.43	1.52
1	fe	185	MET	CA-CB	8.32	1.66	1.53
1	3K	170	LYS	CA-CB	8.31	1.66	1.53
1	k	90	PRO	CA-C	8.31	1.62	1.52
1	kP	230	VAL	CA-CB	-8.31	1.44	1.54
1	lc	19	THR	CA-CB	8.31	1.66	1.53
1	4J	79	GLU	N-CA	-8.31	1.36	1.46
1	am	141	ILE	N-CA	8.31	1.56	1.46
1	da	25	LYS	CA-C	8.31	1.63	1.52
1	1p	15	ILE	CA-C	8.31	1.61	1.52
1	1w	153	ILE	CA-C	8.31	1.63	1.52
1	g7	125	PRO	N-CA	8.31	1.53	1.47
1	k0	62	HIS	CE1-NE2	8.31	1.40	1.32
1	24	54	THR	CA-C	8.31	1.63	1.52
1	3S	164	TYR	C-N	8.31	1.44	1.33
1	48	74	ASN	CA-C	8.31	1.63	1.52
1	du	58	THR	N-CA	8.31	1.56	1.46
1	eX	222	GLY	CA-C	-8.31	1.43	1.52
1	4P	220	GLY	C-N	8.31	1.41	1.33
1	5w	191	VAL	N-CA	-8.31	1.35	1.46
1	gz	181	VAL	CA-C	-8.31	1.42	1.52
1	2k	155	GLN	CA-C	8.31	1.63	1.52
1	is	107	THR	CA-C	-8.31	1.42	1.53
1	ks	95	GLN	CA-C	-8.31	1.42	1.52
1	4S	80	TRP	NE1-CE2	-8.31	1.28	1.37
1	4W	127	GLY	CA-C	-8.31	1.43	1.52
1	7k	18	ARG	CA-CB	8.31	1.66	1.53
1	dI	97	ARG	CD-NE	8.31	1.57	1.46
1	fT	53	ASN	CA-C	8.31	1.63	1.52
1	7K	137	GLY	CA-C	8.31	1.61	1.52
1	cq	127	GLY	CA-C	-8.31	1.43	1.52
1	eH	133	TRP	NE1-CE2	-8.31	1.28	1.37
1	l	208	ALA	CA-CB	8.31	1.66	1.53
1	lJ	139	ASN	CA-CB	8.31	1.66	1.53
1	6G	102	SER	C-N	8.31	1.44	1.33
1	7w	141	ILE	N-CA	8.31	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9D	176	GLN	N-CA	-8.31	1.35	1.46
1	1r	184	TRP	NE1-CE2	-8.31	1.28	1.37
1	H	80	TRP	CA-CB	8.31	1.66	1.53
1	go	85	PRO	C-N	8.30	1.46	1.33
1	hF	8	GLY	CA-C	8.30	1.60	1.51
1	2Z	216	THR	CA-C	8.30	1.63	1.52
1	Z	12	HIS	ND1-CE1	8.30	1.40	1.32
1	18	64	ALA	CA-C	8.30	1.64	1.52
1	bL	176	GLN	C-N	8.30	1.44	1.33
1	75	75	GLU	N-CA	-8.30	1.36	1.46
1	8l	12	HIS	ND1-CE1	8.30	1.40	1.32
1	cG	176	GLN	CA-CB	8.30	1.67	1.53
1	dH	117	TRP	CA-CB	8.30	1.67	1.53
1	ha	3	VAL	CA-C	-8.30	1.42	1.52
1	jz	53	ASN	CA-CB	8.30	1.66	1.53
1	k3	152	ASP	C-N	8.30	1.42	1.34
1	ky	124	ILE	CA-C	8.30	1.61	1.52
1	6m	62	HIS	CE1-NE2	8.30	1.40	1.32
1	9O	62	HIS	CB-CG	-8.30	1.38	1.50
1	bF	185	MET	CA-CB	8.30	1.66	1.53
1	ef	98	GLU	CA-C	8.30	1.61	1.53
1	fA	87	HIS	ND1-CE1	8.30	1.40	1.32
1	fS	42	ALA	N-CA	-8.30	1.36	1.46
1	35	123	PRO	CA-C	-8.30	1.43	1.52
1	4w	62	HIS	CE1-NE2	8.30	1.40	1.32
1	gC	159	GLU	CA-C	-8.30	1.43	1.52
1	jU	144	MET	CA-CB	8.30	1.66	1.53
1	kQ	227	LYS	CA-C	8.30	1.63	1.52
1	lm	215	MET	CA-C	-8.30	1.41	1.52
1	9y	164	TYR	CA-CB	8.30	1.66	1.53
1	3l	25	LYS	CA-C	8.30	1.63	1.52
1	3W	80	TRP	CA-C	8.30	1.63	1.52
1	4Z	176	GLN	CA-CB	8.30	1.66	1.53
1	60	123	PRO	CA-C	-8.30	1.42	1.52
1	7T	179	GLN	CA-CB	8.30	1.66	1.53
1	9X	126	VAL	C-N	8.30	1.43	1.33
1	ax	91	ILE	CA-C	-8.30	1.43	1.52
1	f4	69	LEU	CA-CB	8.30	1.66	1.53
1	Q	151	LEU	CA-C	8.30	1.64	1.52
1	k4	120	HIS	C-N	8.30	1.42	1.33
1	6k	123	PRO	C-N	8.30	1.40	1.33
1	fn	50	GLN	CA-C	8.30	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jp	145	TYR	CA-C	-8.29	1.41	1.52
1	lf	210	THR	CA-C	-8.29	1.42	1.53
1	8A	92	GLU	CA-C	8.29	1.61	1.52
1	9t	82	ARG	CA-C	8.29	1.64	1.52
1	9D	84	HIS	ND1-CE1	8.29	1.40	1.32
1	dX	84	HIS	ND1-CE1	8.29	1.40	1.32
1	fh	121	ASN	N-CA	-8.29	1.35	1.46
1	H	228	ALA	N-CA	-8.29	1.38	1.46
1	1E	170	LYS	CA-CB	8.29	1.66	1.53
1	2z	91	ILE	CA-CB	8.29	1.63	1.54
1	3O	170	LYS	CA-CB	8.29	1.66	1.53
1	aX	16	SER	CA-C	8.29	1.64	1.53
1	7l	124	ILE	N-CA	-8.29	1.40	1.46
1	eD	59	VAL	CA-C	8.29	1.62	1.52
1	eZ	141	ILE	CA-C	8.29	1.63	1.52
1	gp	21	ASN	N-CA	8.29	1.56	1.46
1	hv	133	TRP	NE1-CE2	-8.29	1.28	1.37
1	j3	108	THR	CA-C	-8.29	1.42	1.52
1	jr	14	ALA	CA-C	8.29	1.63	1.52
1	hw	189	LEU	N-CA	8.29	1.56	1.46
1	iK	168	PHE	C-O	-8.29	1.14	1.24
1	lw	51	ASP	CA-CB	8.29	1.66	1.53
1	5p	66	MET	CA-C	8.29	1.63	1.52
1	86	147	PRO	CA-C	8.29	1.62	1.52
1	aF	163	ASP	CA-CB	8.29	1.66	1.53
1	dC	52	LEU	C-N	8.29	1.44	1.33
1	ff	194	ALA	CA-C	8.29	1.63	1.52
1	fB	102	SER	CA-C	8.29	1.64	1.52
1	hc	71	GLU	CA-C	-8.29	1.42	1.52
1	23	128	GLU	CA-CB	8.29	1.66	1.53
1	lt	146	SER	CA-C	8.29	1.61	1.53
1	5G	212	GLU	CA-C	-8.29	1.42	1.52
1	7a	23	TRP	CA-CB	8.29	1.66	1.53
1	9L	86	VAL	CA-CB	-8.29	1.43	1.54
1	9M	210	THR	C-N	8.29	1.44	1.33
1	2w	194	ALA	CA-C	8.28	1.64	1.53
1	2P	206	GLY	N-CA	8.28	1.56	1.44
1	8Z	50	GLN	CA-CB	8.29	1.66	1.53
1	9b	166	ASP	CA-C	8.29	1.63	1.52
1	ds	97	ARG	CD-NE	8.29	1.57	1.46
1	r	224	PRO	CA-C	-8.29	1.44	1.52
1	q	120	HIS	ND1-CE1	8.28	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1C	210	THR	CA-C	-8.28	1.42	1.52
1	gu	31	ALA	CA-C	-8.28	1.41	1.52
1	8o	183	ASN	CA-CB	8.28	1.67	1.53
1	ac	9	GLN	C-N	8.28	1.45	1.33
1	1v	104	ILE	C-N	8.28	1.45	1.33
1	fw	119	THR	C-N	8.28	1.44	1.33
1	2x	7	GLN	C-N	8.28	1.45	1.33
1	3e	187	GLU	CA-C	8.28	1.57	1.52
1	3B	185	MET	CA-C	-8.28	1.42	1.52
1	7I	226	HIS	ND1-CE1	8.28	1.40	1.32
1	bR	141	ILE	CA-C	-8.28	1.42	1.52
1	eI	195	ASN	CA-CB	8.28	1.65	1.53
1	hh	167	ARG	C-O	-8.28	1.14	1.24
1	2m	195	ASN	C-N	8.28	1.44	1.34
1	hD	84	HIS	CG-CD2	8.28	1.45	1.35
1	1Y	186	THR	CA-C	8.28	1.63	1.52
1	ks	11	VAL	CA-CB	-8.28	1.43	1.54
1	lw	25	LYS	N-CA	-8.28	1.36	1.46
1	al	9	GLN	CA-C	-8.28	1.42	1.52
1	bv	12	HIS	ND1-CE1	8.28	1.40	1.32
1	d6	65	ALA	CA-C	-8.28	1.42	1.52
1	fG	125	PRO	C-N	8.28	1.44	1.33
1	v	59	VAL	CA-C	8.28	1.62	1.52
1	gD	9	GLN	CA-C	8.28	1.62	1.52
1	hM	37	ILE	CA-C	8.28	1.60	1.52
1	jO	225	GLY	CA-C	-8.28	1.43	1.51
1	hN	214	MET	CA-C	-8.28	1.42	1.52
1	kp	87	HIS	ND1-CE1	8.28	1.40	1.32
1	kw	70	LYS	N-CA	8.28	1.56	1.46
1	7L	39	MET	CA-CB	8.28	1.66	1.53
1	lN	40	PHE	N-CA	8.28	1.56	1.46
1	9T	135	ILE	N-CA	8.28	1.56	1.46
1	av	78	ALA	CA-CB	-8.28	1.40	1.53
1	fQ	52	LEU	C-N	8.28	1.45	1.34
1	2	226	HIS	ND1-CE1	8.28	1.40	1.32
1	Q	124	ILE	N-CA	-8.28	1.38	1.46
1	7T	80	TRP	NE1-CE2	-8.27	1.28	1.37
1	84	226	HIS	CG-ND1	8.27	1.47	1.38
1	bK	84	HIS	ND1-CE1	8.27	1.40	1.32
1	i6	123	PRO	C-N	8.27	1.41	1.33
1	8Z	56	LEU	CA-C	8.27	1.63	1.52
1	bY	28	GLU	CA-C	8.27	1.64	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c3	127	GLY	CA-C	-8.27	1.43	1.52
1	e7	15	ILE	CA-C	8.27	1.61	1.52
1	eL	98	GLU	C-N	-8.27	1.26	1.33
1	dk	120	HIS	CD2-NE2	8.27	1.47	1.37
1	eV	90	PRO	N-CA	8.27	1.56	1.47
1	eV	184	TRP	N-CA	8.27	1.56	1.46
1	ig	215	MET	CA-CB	8.27	1.66	1.53
1	fz	126	VAL	N-CA	-8.27	1.36	1.46
1	ii	134	ILE	CA-C	-8.27	1.42	1.52
1	iv	91	ILE	CA-CB	-8.27	1.46	1.54
1	kq	83	LEU	CA-CB	8.27	1.66	1.53
1	7g	15	ILE	CA-CB	-8.27	1.46	1.54
1	8l	12	HIS	CD2-NE2	8.27	1.47	1.37
1	bw	10	MET	CA-CB	8.27	1.65	1.53
1	bd	111	LEU	CA-CB	8.27	1.66	1.53
1	eK	195	ASN	CA-C	8.27	1.63	1.53
1	1B	119	THR	CA-C	-8.27	1.41	1.52
1	hQ	23	TRP	N-CA	-8.27	1.36	1.46
1	h7	73	ILE	CA-CB	-8.27	1.43	1.54
1	hR	31	ALA	CA-C	-8.27	1.45	1.53
1	1V	12	HIS	CA-CB	8.27	1.65	1.53
1	3o	146	SER	CA-C	8.27	1.62	1.52
1	5I	220	GLY	C-N	8.27	1.42	1.34
1	9W	137	GLY	N-CA	8.27	1.56	1.45
1	c0	127	GLY	N-CA	8.27	1.56	1.45
1	ie	62	HIS	CA-CB	8.26	1.66	1.53
1	1Y	208	ALA	C-N	8.26	1.44	1.33
1	iS	33	SER	C-N	-8.26	1.26	1.33
1	kf	5	ASN	CA-C	-8.26	1.42	1.52
1	6z	117	TRP	NE1-CE2	-8.26	1.28	1.37
1	9V	123	PRO	C-N	8.26	1.40	1.33
1	fM	107	THR	N-CA	8.26	1.56	1.46
1	5m	76	GLU	N-CA	-8.26	1.35	1.46
1	y	80	TRP	NE1-CE2	-8.26	1.28	1.37
1	1H	125	PRO	N-CA	-8.26	1.41	1.47
1	ih	54	THR	CA-C	-8.26	1.42	1.52
1	lC	199	LYS	CA-CB	8.26	1.66	1.53
1	fd	226	HIS	ND1-CE1	8.26	1.40	1.32
1	2g	201	ILE	CA-C	8.26	1.62	1.52
1	12	96	MET	CA-C	8.26	1.64	1.52
1	eQ	84	HIS	ND1-CE1	8.26	1.40	1.32
1	4M	101	GLY	CA-C	-8.26	1.40	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6D	207	PRO	N-CA	-8.26	1.37	1.47
1	aD	5	ASN	CA-C	8.26	1.63	1.52
1	ex	209	ALA	CA-C	8.26	1.63	1.52
1	hQ	27	VAL	CA-CB	-8.26	1.44	1.54
1	22	140	LYS	C-N	8.26	1.44	1.33
1	3p	146	SER	C-N	-8.26	1.25	1.34
1	4T	36	VAL	N-CA	8.26	1.56	1.46
1	bE	159	GLU	C-N	-8.26	1.26	1.33
1	bU	37	ILE	CA-CB	8.26	1.58	1.54
1	ch	80	TRP	CA-C	8.26	1.63	1.52
1	cM	159	GLU	N-CA	8.26	1.55	1.45
1	eD	185	MET	CA-C	8.26	1.63	1.52
1	3	167	ARG	CD-NE	8.26	1.57	1.46
1	gU	61	GLY	CA-C	-8.25	1.42	1.52
1	jg	102	SER	N-CA	-8.25	1.36	1.46
1	jO	183	ASN	N-CA	-8.25	1.36	1.46
1	5h	2	ILE	CA-CB	-8.25	1.44	1.54
1	c2	40	PHE	CA-C	8.25	1.63	1.52
1	cI	62	HIS	CG-ND1	8.25	1.47	1.38
1	1o	163	ASP	CA-C	8.25	1.63	1.52
1	lq	201	ILE	C-N	8.25	1.44	1.33
1	ls	78	ALA	CA-C	-8.25	1.41	1.52
1	4X	163	ASP	CA-CB	8.25	1.64	1.53
1	5m	72	THR	CA-C	-8.25	1.42	1.52
1	an	84	HIS	ND1-CE1	8.25	1.40	1.32
1	18	103	ASP	N-CA	8.25	1.56	1.46
1	gc	213	GLU	CA-CB	8.25	1.66	1.53
1	jF	149	SER	N-CA	-8.25	1.36	1.46
1	8K	110	THR	N-CA	8.25	1.55	1.45
1	1h	134	ILE	CA-CB	8.25	1.64	1.54
1	dt	113	GLU	CA-CB	8.25	1.66	1.53
1	fI	136	LEU	N-CA	8.25	1.56	1.46
1	hk	178	SER	N-CA	8.24	1.56	1.46
1	8v	121	ASN	CA-CB	8.24	1.65	1.53
1	dw	50	GLN	C-N	8.24	1.44	1.33
1	k7	63	GLN	N-CA	-8.24	1.35	1.46
1	19	221	VAL	CA-CB	-8.24	1.43	1.54
1	f3	92	GLU	N-CA	8.24	1.55	1.46
1	c9	123	PRO	C-N	8.24	1.40	1.33
1	d5	84	HIS	CG-ND1	-8.24	1.29	1.38
1	gq	120	HIS	CE1-NE2	8.24	1.40	1.32
1	3D	165	VAL	N-CA	-8.24	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aA	215	MET	CA-CB	8.24	1.66	1.53
1	eO	62	HIS	CE1-NE2	8.24	1.40	1.32
1	bL	57	ASN	N-CA	-8.24	1.35	1.46
1	f1	129	ILE	CA-C	8.24	1.63	1.52
1	j	84	HIS	CD2-NE2	8.24	1.47	1.37
1	r	92	GLU	CA-C	8.24	1.59	1.52
1	h0	181	VAL	CA-CB	-8.24	1.44	1.54
1	js	62	HIS	CE1-NE2	8.24	1.40	1.32
1	kV	12	HIS	N-CA	-8.24	1.36	1.46
1	l3	149	SER	N-CA	8.24	1.56	1.46
1	3V	67	GLN	N-CA	-8.24	1.36	1.46
1	85	135	ILE	CA-CB	-8.24	1.45	1.54
1	8Y	33	SER	N-CA	8.24	1.53	1.45
1	aW	84	HIS	ND1-CE1	8.24	1.40	1.32
1	4T	205	LEU	N-CA	-8.24	1.35	1.46
1	6H	47	ALA	N-CA	-8.24	1.35	1.46
1	aa	15	ILE	N-CA	8.24	1.56	1.46
1	aC	133	TRP	CA-CB	8.24	1.66	1.53
1	g	178	SER	CA-CB	8.24	1.66	1.53
1	5D	34	PRO	CA-C	8.23	1.60	1.52
1	6V	84	HIS	ND1-CE1	8.23	1.40	1.32
1	eU	183	ASN	CA-CB	8.23	1.66	1.53
1	hD	94	GLY	CA-C	-8.23	1.44	1.52
1	jG	69	LEU	C-N	8.23	1.44	1.33
1	dK	64	ALA	CA-C	-8.23	1.42	1.52
1	w	50	GLN	CA-CB	8.23	1.66	1.53
1	g8	124	ILE	CA-C	8.23	1.60	1.53
1	i2	59	VAL	CA-CB	-8.23	1.44	1.54
1	lh	156	GLY	N-CA	8.23	1.55	1.44
1	gy	168	PHE	CA-C	8.23	1.63	1.52
1	hK	154	ARG	CD-NE	8.23	1.57	1.46
1	j7	208	ALA	N-CA	-8.23	1.35	1.46
1	jp	134	ILE	CA-CB	-8.23	1.44	1.54
1	lO	84	HIS	CD2-NE2	8.23	1.47	1.37
1	6Z	206	GLY	CA-C	8.23	1.63	1.51
1	7w	86	VAL	CA-CB	8.23	1.62	1.54
1	7y	225	GLY	CA-C	-8.23	1.41	1.51
1	1T	225	GLY	C-N	8.23	1.44	1.33
1	i7	37	ILE	CA-C	8.23	1.61	1.52
1	20	85	PRO	CA-CB	8.23	1.64	1.53
1	3R	84	HIS	ND1-CE1	8.23	1.40	1.32
1	eZ	117	TRP	CA-C	-8.23	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	37	ILE	CA-C	8.23	1.60	1.52
1	l3	145	TYR	CA-CB	8.23	1.65	1.53
1	7S	99	PRO	CA-C	-8.23	1.42	1.52
1	9c	181	VAL	N-CA	-8.23	1.36	1.46
1	1w	172	LEU	CA-CB	8.23	1.66	1.53
1	9O	73	ILE	CA-C	-8.23	1.42	1.52
1	e5	22	ALA	CA-C	8.23	1.63	1.52
1	eT	62	HIS	ND1-CE1	8.23	1.40	1.32
1	I	87	HIS	ND1-CE1	8.23	1.40	1.32
1	hJ	82	ARG	CD-NE	8.22	1.57	1.46
1	iO	18	ARG	CD-NE	8.22	1.57	1.46
1	le	103	ASP	CA-C	8.22	1.63	1.52
1	by	221	VAL	CA-C	8.22	1.61	1.52
1	iN	46	GLY	CA-C	-8.22	1.43	1.51
1	lL	163	ASP	N-CA	8.22	1.56	1.46
1	3z	44	SER	CA-CB	8.22	1.64	1.53
1	8b	191	VAL	CA-CB	8.22	1.64	1.54
1	8s	130	TYR	CA-CB	8.22	1.67	1.53
1	9E	146	SER	CA-C	-8.22	1.43	1.52
1	9F	37	ILE	CA-C	8.22	1.60	1.52
1	bq	101	GLY	CA-C	-8.22	1.42	1.52
1	eH	86	VAL	N-CA	8.22	1.57	1.46
1	f4	127	GLY	CA-C	-8.22	1.42	1.52
1	hb	26	VAL	N-CA	8.22	1.56	1.46
1	ji	37	ILE	CA-C	8.22	1.59	1.52
1	31	183	ASN	CA-C	8.22	1.63	1.52
1	bN	125	PRO	CA-CB	-8.22	1.48	1.53
1	da	201	ILE	CB-CG1	8.22	1.69	1.53
1	1m	100	ARG	C-N	8.22	1.45	1.33
1	dR	40	PHE	N-CA	8.22	1.56	1.46
1	1o	218	CYS	CA-C	8.22	1.63	1.53
1	iS	11	VAL	CA-C	-8.22	1.43	1.52
1	22	106	GLY	CA-C	-8.22	1.43	1.51
1	kC	215	MET	N-CA	-8.22	1.35	1.46
1	kG	67	GLN	C-N	8.22	1.44	1.33
1	7C	224	PRO	CA-C	8.22	1.62	1.52
1	80	24	VAL	CA-C	8.22	1.62	1.52
1	6k	13	GLN	CA-C	8.22	1.62	1.52
1	eO	105	ALA	CA-C	8.22	1.64	1.52
1	gD	1	PRO	N-CD	8.21	1.59	1.47
1	hj	138	LEU	CA-C	8.22	1.63	1.52
1	hS	60	GLY	C-N	8.21	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l0	17	PRO	CA-C	-8.21	1.40	1.52
1	5Z	144	MET	CA-CB	8.22	1.66	1.53
1	75	184	TRP	NE1-CE2	-8.22	1.28	1.37
1	78	92	GLU	C-N	8.22	1.43	1.33
1	3R	80	TRP	CA-C	8.21	1.63	1.52
1	7E	32	PHE	CA-CB	8.21	1.67	1.53
1	dy	123	PRO	C-N	8.22	1.40	1.33
1	cO	205	LEU	CA-C	-8.21	1.42	1.52
1	k	63	GLN	CA-C	-8.21	1.42	1.52
1	hV	92	GLU	CA-C	8.21	1.62	1.52
1	jR	124	ILE	CA-C	8.21	1.59	1.53
1	g7	1	PRO	N-CD	8.21	1.59	1.47
1	h2	210	THR	N-CA	8.21	1.56	1.45
1	iS	195	ASN	CA-C	8.21	1.61	1.53
1	jJ	180	GLU	N-CA	8.21	1.56	1.46
1	k3	34	PRO	CA-C	8.21	1.64	1.52
1	l0	113	GLU	CA-CB	8.21	1.66	1.53
1	2Q	145	TYR	N-CA	-8.21	1.36	1.46
1	3h	40	PHE	CA-C	8.21	1.63	1.52
1	8n	90	PRO	CA-C	8.21	1.62	1.52
1	fS	30	LYS	CA-C	8.21	1.63	1.52
1	cu	103	ASP	CA-C	8.21	1.63	1.52
1	dL	220	GLY	N-CA	8.21	1.53	1.45
1	1t	145	TYR	C-N	8.21	1.41	1.33
1	f7	14	ALA	CA-C	8.21	1.63	1.52
1	j7	180	GLU	CA-CB	8.21	1.66	1.53
1	hx	58	THR	C-N	8.21	1.42	1.33
1	kR	230	VAL	CA-CB	8.21	1.63	1.54
1	4s	78	ALA	N-CA	-8.21	1.36	1.46
1	9a	37	ILE	CA-CB	8.21	1.58	1.54
1	cW	123	PRO	C-N	8.21	1.40	1.33
1	cT	169	TYR	CA-CB	8.21	1.67	1.53
1	e7	84	HIS	ND1-CE1	8.21	1.40	1.32
1	f5	188	THR	N-CA	8.21	1.56	1.46
1	1	205	LEU	N-CA	-8.21	1.35	1.46
1	u	184	TRP	CA-CB	8.21	1.66	1.53
1	hN	185	MET	C-N	8.21	1.45	1.34
1	hW	64	ALA	N-CA	-8.21	1.35	1.46
1	ie	65	ALA	C-O	-8.21	1.14	1.24
1	lp	178	SER	CA-CB	8.21	1.65	1.53
1	iX	212	GLU	N-CA	-8.20	1.36	1.46
1	kE	24	VAL	CA-C	8.20	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lB	23	TRP	NE1-CE2	-8.20	1.28	1.37
1	39	23	TRP	CA-C	8.21	1.63	1.52
1	71	148	THR	C-N	8.21	1.44	1.33
1	76	183	ASN	CA-CB	8.21	1.66	1.53
1	61	221	VAL	CA-CB	-8.20	1.45	1.54
1	7I	197	ASP	CA-CB	8.21	1.66	1.53
1	7K	132	ARG	N-CA	-8.21	1.36	1.46
1	2	103	ASP	C-N	8.21	1.43	1.33
1	aJ	8	GLY	N-CA	8.20	1.57	1.45
1	1s	220	GLY	CA-C	-8.20	1.44	1.52
1	m	148	THR	CA-C	-8.21	1.42	1.52
1	2C	58	THR	C-N	8.20	1.44	1.33
1	hM	130	TYR	CA-C	8.20	1.63	1.52
1	jX	146	SER	CA-C	8.20	1.62	1.52
1	lG	225	GLY	CA-C	8.20	1.59	1.52
1	2c	87	HIS	ND1-CE1	8.20	1.40	1.32
1	79	148	THR	N-CA	8.20	1.55	1.46
1	9Y	84	HIS	ND1-CE1	8.20	1.40	1.32
1	fO	174	ALA	C-N	8.20	1.44	1.33
1	gc	224	PRO	N-CA	-8.20	1.36	1.47
1	hp	101	GLY	CA-C	-8.20	1.42	1.52
1	ir	20	LEU	N-CA	-8.20	1.36	1.46
1	3b	8	GLY	CA-C	-8.20	1.41	1.52
1	6J	137	GLY	CA-C	8.20	1.61	1.52
1	7n	37	ILE	CA-CB	-8.20	1.50	1.54
1	7h	42	ALA	N-CA	-8.20	1.36	1.46
1	cf	47	ALA	CA-C	-8.20	1.42	1.52
1	fo	38	PRO	CA-C	8.20	1.63	1.52
1	fr	84	HIS	CA-C	8.20	1.62	1.52
1	H	159	GLU	CA-C	-8.20	1.44	1.53
1	gN	161	PHE	CA-CB	8.20	1.66	1.53
1	it	30	LYS	CA-CB	8.20	1.66	1.53
1	iN	168	PHE	N-CA	-8.20	1.36	1.46
1	kJ	16	SER	CA-C	8.20	1.62	1.53
1	kN	46	GLY	CA-C	-8.20	1.43	1.51
1	3T	133	TRP	CA-CB	8.20	1.66	1.53
1	4c	83	LEU	CA-C	8.20	1.63	1.52
1	4J	50	GLN	CA-C	-8.20	1.42	1.52
1	a1	194	ALA	N-CA	8.20	1.56	1.46
1	gD	51	ASP	C-N	8.19	1.44	1.33
1	kW	117	TRP	NE1-CE2	8.19	1.46	1.37
1	4f	208	ALA	CA-C	8.20	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8b	1	PRO	N-CD	8.19	1.59	1.47
1	cl	93	PRO	CA-C	8.19	1.62	1.52
1	eh	160	PRO	CA-C	-8.20	1.42	1.52
1	2	47	ALA	N-CA	-8.20	1.35	1.45
1	3R	71	GLU	C-N	8.19	1.44	1.33
1	5P	45	GLU	CA-CB	8.19	1.63	1.53
1	7C	153	ILE	CA-CB	8.19	1.63	1.54
1	a3	205	LEU	CA-C	8.19	1.63	1.52
1	bV	72	THR	CA-C	-8.19	1.42	1.52
1	hP	88	ALA	CA-CB	8.19	1.63	1.53
1	j0	84	HIS	ND1-CE1	8.19	1.40	1.32
1	6U	124	ILE	CA-C	8.19	1.60	1.53
1	3d	78	ALA	CA-C	8.19	1.63	1.52
1	3U	226	HIS	CD2-NE2	8.19	1.46	1.37
1	60	174	ALA	CA-C	8.19	1.63	1.52
1	9Q	176	GLN	CA-C	-8.19	1.42	1.52
1	aP	118	MET	CA-CB	8.19	1.66	1.53
1	cA	5	ASN	CA-C	8.19	1.60	1.53
1	1n	218	CYS	CA-C	-8.19	1.41	1.52
1	62	129	ILE	N-CA	8.19	1.56	1.46
1	6n	226	HIS	N-CA	8.19	1.56	1.46
1	98	37	ILE	CA-C	8.19	1.60	1.52
1	gp	23	TRP	N-CA	-8.19	1.36	1.46
1	bk	88	ALA	N-CA	-8.19	1.35	1.46
1	kO	185	MET	N-CA	-8.19	1.36	1.46
1	3i	124	ILE	CA-C	8.19	1.59	1.53
1	3M	123	PRO	CA-CB	8.19	1.63	1.54
1	48	33	SER	CA-C	8.19	1.61	1.53
1	ae	230	VAL	N-CA	-8.19	1.36	1.46
1	bO	141	ILE	N-CA	-8.19	1.36	1.46
1	ay	12	HIS	CE1-NE2	-8.19	1.24	1.32
1	az	100	ARG	CA-CB	8.19	1.65	1.53
1	f2	190	LEU	CA-CB	8.19	1.66	1.53
1	i	93	PRO	CA-C	-8.19	1.43	1.52
1	ig	153	ILE	CA-CB	-8.18	1.45	1.54
1	jO	160	PRO	CA-C	8.18	1.62	1.52
1	9N	6	LEU	CA-C	-8.18	1.41	1.52
1	jU	121	ASN	CA-CB	8.18	1.63	1.53
1	4r	140	LYS	CA-CB	8.18	1.66	1.53
1	4Q	101	GLY	N-CA	8.18	1.56	1.45
1	80	173	ARG	NE-CZ	-8.18	1.24	1.33
1	8u	85	PRO	CA-C	8.18	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9a	224	PRO	CA-CB	8.18	1.65	1.53
1	ah	153	ILE	CA-CB	8.18	1.63	1.53
1	12	147	PRO	N-CA	8.18	1.55	1.47
1	by	60	GLY	CA-C	-8.18	1.40	1.51
1	d8	117	TRP	CA-CB	8.18	1.66	1.53
1	fa	86	VAL	CA-C	8.18	1.62	1.52
1	fL	72	THR	CA-C	8.18	1.63	1.52
1	gc	144	MET	N-CA	8.18	1.56	1.46
1	kv	50	GLN	CA-C	8.18	1.63	1.52
1	fU	209	ALA	CA-C	-8.18	1.42	1.52
1	1C	129	ILE	CA-CB	-8.18	1.44	1.54
1	h3	210	THR	C-N	8.18	1.45	1.34
1	1K	37	ILE	CA-CB	8.18	1.59	1.53
1	im	201	ILE	C-N	8.18	1.44	1.33
1	jg	34	PRO	N-CA	-8.18	1.36	1.47
1	li	12	HIS	ND1-CE1	8.18	1.40	1.32
1	b6	52	LEU	CA-C	8.18	1.63	1.52
1	1d	29	GLU	N-CA	-8.18	1.35	1.46
1	je	21	ASN	CA-CB	8.18	1.66	1.53
1	lA	178	SER	N-CA	8.18	1.56	1.46
1	7E	15	ILE	N-CA	8.18	1.55	1.46
1	c3	37	ILE	CA-CB	8.18	1.59	1.53
1	9r	203	LYS	C-N	8.18	1.44	1.33
1	gh	158	LYS	N-CA	8.18	1.55	1.46
1	hP	129	ILE	CA-CB	-8.18	1.44	1.54
1	iv	87	HIS	CG-ND1	-8.18	1.29	1.38
1	k1	220	GLY	N-CA	8.18	1.57	1.45
1	ds	140	LYS	CA-CB	8.18	1.66	1.53
1	B	136	LEU	CA-C	8.18	1.63	1.52
1	hk	147	PRO	CA-C	-8.17	1.42	1.52
1	1V	1	PRO	N-CD	8.17	1.59	1.47
1	1Y	92	GLU	CA-CB	8.17	1.65	1.53
1	kk	126	VAL	CA-C	8.17	1.63	1.52
1	l3	38	PRO	C-N	8.17	1.44	1.33
1	2p	186	THR	CA-C	-8.17	1.42	1.52
1	94	98	GLU	CA-C	8.17	1.62	1.53
1	b3	81	ASP	N-CA	-8.17	1.35	1.46
1	bJ	29	GLU	CA-C	-8.17	1.42	1.52
1	fj	48	THR	CA-C	8.17	1.62	1.52
1	99	194	ALA	CA-C	8.17	1.63	1.52
1	1H	124	ILE	CA-C	8.17	1.61	1.52
1	ih	37	ILE	CA-C	8.17	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8j	99	PRO	CA-CB	8.17	1.64	1.53
1	9p	11	VAL	N-CA	8.17	1.56	1.46
1	ii	230	VAL	N-CA	-8.17	1.36	1.46
1	kC	219	GLN	N-CA	8.17	1.54	1.46
1	2u	100	ARG	CD-NE	8.17	1.57	1.46
1	4h	111	LEU	N-CA	-8.17	1.36	1.46
1	4D	121	ASN	CA-C	-8.17	1.42	1.52
1	5a	221	VAL	C-N	8.17	1.44	1.33
1	5a	7	GLN	C-N	8.17	1.41	1.33
1	6p	148	THR	N-CA	-8.17	1.35	1.46
1	6r	152	ASP	N-CA	8.17	1.56	1.46
1	7o	87	HIS	ND1-CE1	8.17	1.40	1.32
1	do	116	GLY	CA-C	-8.17	1.43	1.52
1	ij	82	ARG	C-N	8.17	1.44	1.33
1	l7	227	LYS	CA-C	-8.17	1.42	1.52
1	b7	84	HIS	CA-C	-8.17	1.43	1.52
1	cn	175	GLU	CA-C	8.17	1.61	1.52
1	d3	100	ARG	CD-NE	8.17	1.57	1.46
1	1K	33	SER	C-N	-8.16	1.23	1.33
1	78	198	CYS	CA-C	-8.16	1.41	1.52
1	7P	157	PRO	CA-C	8.16	1.61	1.52
1	jV	176	GLN	CA-C	-8.16	1.43	1.52
1	kd	170	LYS	CA-C	-8.16	1.42	1.52
1	kQ	213	GLU	CA-C	8.16	1.63	1.52
1	f8	13	GLN	CA-CB	8.16	1.66	1.53
1	fV	153	ILE	CA-C	-8.16	1.43	1.53
1	kL	82	ARG	N-CA	8.16	1.56	1.46
1	gQ	32	PHE	CA-CB	8.16	1.62	1.52
1	hT	177	ALA	CA-C	8.16	1.63	1.53
1	iN	85	PRO	CA-C	8.16	1.60	1.52
1	2T	84	HIS	ND1-CE1	8.16	1.40	1.32
1	di	10	MET	C-N	8.16	1.42	1.33
1	7a	9	GLN	N-CA	8.16	1.56	1.46
1	7N	55	MET	N-CA	8.16	1.56	1.46
1	98	165	VAL	C-N	8.16	1.44	1.33
1	g	81	ASP	CA-CB	8.16	1.66	1.53
1	k3	227	LYS	CA-C	8.16	1.63	1.52
1	3f	37	ILE	CA-C	8.16	1.60	1.52
1	3U	26	VAL	CA-C	8.16	1.62	1.52
1	1C	5	ASN	CA-C	-8.15	1.42	1.52
1	go	87	HIS	ND1-CE1	8.15	1.40	1.32
1	hK	124	ILE	CA-C	8.15	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gq	5	ASN	CA-CB	8.15	1.67	1.53
1	gA	207	PRO	N-CA	-8.15	1.39	1.47
1	hU	143	ARG	N-CA	-8.15	1.36	1.46
1	jy	133	TRP	CA-CB	8.15	1.66	1.53
1	lm	145	TYR	CA-C	8.15	1.63	1.52
1	2O	230	VAL	CA-C	-8.15	1.42	1.52
1	1j	187	GLU	CA-C	8.15	1.63	1.52
1	1u	71	GLU	N-CA	-8.15	1.36	1.46
1	fb	108	THR	N-CA	8.15	1.56	1.46
1	fe	144	MET	CA-CB	8.15	1.66	1.53
1	gl	50	GLN	N-CA	8.15	1.56	1.46
1	2m	120	HIS	ND1-CE1	8.15	1.40	1.32
1	7t	158	LYS	C-N	8.15	1.42	1.33
1	9h	74	ASN	CA-CB	8.15	1.66	1.53
1	cl	59	VAL	N-CA	8.15	1.56	1.46
1	1J	129	ILE	CA-C	8.15	1.62	1.52
1	cP	110	THR	N-CA	8.15	1.56	1.45
1	fI	124	ILE	CA-C	8.15	1.61	1.52
1	hJ	127	GLY	CA-C	-8.15	1.41	1.51
1	hQ	140	LYS	CA-C	8.15	1.63	1.52
1	lt	175	GLU	N-CA	8.15	1.56	1.46
1	4v	38	PRO	CA-C	8.15	1.63	1.52
1	7W	15	ILE	CA-CB	8.15	1.63	1.54
1	gm	195	ASN	C-N	8.15	1.43	1.34
1	jz	188	THR	N-CA	8.15	1.56	1.46
1	2O	220	GLY	CA-C	8.15	1.62	1.51
1	3u	163	ASP	N-CA	-8.15	1.36	1.46
1	7d	109	SER	N-CA	8.15	1.55	1.45
1	7h	80	TRP	CA-CB	8.15	1.66	1.53
1	b9	41	SER	CA-CB	8.15	1.66	1.53
1	cV	25	LYS	CA-CB	8.15	1.66	1.53
1	5l	172	LEU	C-N	8.14	1.45	1.33
1	7f	76	GLU	C-N	8.14	1.44	1.33
1	p	47	ALA	C-N	-8.14	1.21	1.33
1	hJ	212	GLU	CA-C	8.14	1.63	1.52
1	ly	152	ASP	C-N	8.14	1.42	1.33
1	6U	12	HIS	CB-CG	8.14	1.61	1.50
1	8o	197	ASP	CA-C	8.14	1.63	1.52
1	al	226	HIS	CE1-NE2	8.14	1.40	1.32
1	8P	115	ILE	CA-C	-8.14	1.43	1.52
1	do	195	ASN	CA-C	-8.14	1.43	1.53
1	G	187	GLU	CA-C	8.14	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k5	166	ASP	N-CA	-8.14	1.36	1.46
1	gg	188	THR	CA-C	-8.14	1.46	1.52
1	4s	81	ASP	CA-C	-8.14	1.42	1.52
1	7o	35	GLU	N-CA	8.14	1.57	1.46
1	c6	33	SER	CA-C	8.14	1.61	1.53
1	cz	174	ALA	CA-C	8.14	1.63	1.52
1	1o	113	GLU	CA-CB	8.14	1.66	1.53
1	eL	84	HIS	CA-CB	8.14	1.65	1.53
1	gu	37	ILE	CA-C	8.14	1.61	1.52
1	1I	72	THR	CA-C	-8.14	1.42	1.52
1	iS	121	ASN	CA-C	8.14	1.62	1.52
1	lp	124	ILE	CA-CB	8.14	1.62	1.53
1	hY	222	GLY	CA-C	8.14	1.63	1.52
1	iE	151	LEU	CA-C	8.14	1.64	1.52
1	kj	84	HIS	C-O	-8.14	1.16	1.24
1	30	116	GLY	CA-C	8.14	1.63	1.51
1	63	61	GLY	N-CA	8.14	1.52	1.44
1	9o	153	ILE	CA-C	8.14	1.61	1.53
1	9E	226	HIS	CB-CG	8.14	1.61	1.50
1	9Q	121	ASN	CA-C	8.14	1.61	1.52
1	9X	2	ILE	CA-C	8.14	1.62	1.52
1	aV	84	HIS	ND1-CE1	8.14	1.40	1.32
1	bD	1	PRO	N-CD	8.14	1.59	1.47
1	eU	226	HIS	ND1-CE1	8.14	1.40	1.32
1	f8	98	GLU	CA-C	8.14	1.62	1.53
1	gV	204	ALA	CA-C	8.14	1.63	1.52
1	iF	112	GLN	CA-CB	8.14	1.66	1.53
1	37	41	SER	N-CA	-8.14	1.36	1.46
1	5b	229	ARG	CA-CB	8.14	1.66	1.53
1	8Q	189	LEU	C-N	8.14	1.43	1.33
1	m	117	TRP	NE1-CE2	-8.14	1.28	1.37
1	hp	123	PRO	N-CA	-8.13	1.37	1.47
1	33	73	ILE	CA-CB	8.13	1.63	1.54
1	8P	146	SER	CA-C	8.13	1.62	1.53
1	aD	146	SER	CA-C	8.14	1.61	1.53
1	8Q	123	PRO	CA-C	8.13	1.62	1.52
1	aX	4	GLN	CA-CB	8.13	1.65	1.53
1	em	137	GLY	CA-C	-8.13	1.42	1.52
1	i	68	MET	CA-C	8.14	1.63	1.52
1	eE	92	GLU	N-CA	-8.13	1.36	1.45
1	q	183	ASN	CA-C	8.13	1.63	1.52
1	jq	92	GLU	CA-C	8.13	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lP	117	TRP	CA-CB	8.13	1.66	1.53
1	2k	37	ILE	CA-C	8.13	1.60	1.52
1	3B	193	ASN	CA-CB	8.13	1.66	1.53
1	5y	125	PRO	CA-CB	8.13	1.63	1.53
1	dE	153	ILE	CA-C	8.13	1.61	1.52
1	1m	35	GLU	CA-C	8.13	1.63	1.52
1	z	87	HIS	ND1-CE1	8.13	1.40	1.32
1	3y	218	CYS	CA-C	-8.13	1.44	1.53
1	4l	170	LYS	C-O	-8.13	1.14	1.24
1	7f	80	TRP	N-CA	8.13	1.56	1.46
1	fF	129	ILE	CA-C	-8.13	1.43	1.52
1	hn	147	PRO	C-O	-8.13	1.14	1.24
1	hG	56	LEU	CA-C	8.13	1.63	1.52
1	iw	22	ALA	CA-C	-8.13	1.42	1.52
1	j5	140	LYS	C-N	8.13	1.44	1.33
1	2y	152	ASP	CA-C	8.13	1.63	1.52
1	kV	94	GLY	C-O	-8.13	1.15	1.24
1	55	33	SER	CA-C	8.13	1.60	1.52
1	19	48	THR	CA-CB	8.13	1.64	1.54
1	1	111	LEU	N-CA	-8.13	1.36	1.46
1	gO	37	ILE	CA-CB	-8.12	1.50	1.54
1	hW	221	VAL	CA-CB	-8.12	1.44	1.54
1	kY	84	HIS	ND1-CE1	8.12	1.40	1.32
1	6N	136	LEU	C-N	8.12	1.43	1.33
1	9j	81	ASP	CA-C	-8.12	1.42	1.52
1	17	93	PRO	CA-CB	8.13	1.64	1.53
1	e9	226	HIS	ND1-CE1	8.13	1.40	1.32
1	11	202	LEU	CA-CB	8.12	1.66	1.53
1	cR	128	GLU	N-CA	8.12	1.56	1.46
1	hU	109	SER	N-CA	8.12	1.56	1.45
1	ib	45	GLU	N-CA	-8.12	1.36	1.46
1	25	21	ASN	CA-CB	8.12	1.66	1.53
1	5X	49	PRO	C-N	8.12	1.43	1.33
1	60	28	GLU	CA-CB	8.12	1.66	1.53
1	7I	124	ILE	N-CA	-8.12	1.40	1.46
1	cc	12	HIS	ND1-CE1	8.12	1.40	1.32
1	em	231	LEU	CA-CB	8.12	1.69	1.53
1	hP	37	ILE	CA-CB	8.12	1.58	1.54
1	jh	33	SER	N-CA	8.12	1.53	1.45
1	kC	75	GLU	CA-C	8.12	1.63	1.52
1	29	134	ILE	CA-CB	-8.12	1.44	1.54
1	2S	155	GLN	N-CA	8.12	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5B	159	GLU	C-N	8.12	1.40	1.33
1	6K	134	ILE	CA-CB	-8.12	1.44	1.54
1	9j	201	ILE	CA-C	8.12	1.62	1.52
1	d6	167	ARG	CD-NE	8.12	1.57	1.46
1	1n	21	ASN	CA-CB	8.12	1.66	1.53
1	gt	198	CYS	CA-CB	8.12	1.66	1.53
1	hg	124	ILE	CA-C	8.12	1.59	1.53
1	kC	82	ARG	NE-CZ	8.12	1.42	1.33
1	kG	124	ILE	N-CA	-8.12	1.36	1.46
1	3O	181	VAL	CA-C	-8.12	1.42	1.52
1	49	187	GLU	N-CA	-8.12	1.35	1.46
1	7G	84	HIS	C-O	-8.12	1.18	1.25
1	8V	49	PRO	N-CA	8.12	1.57	1.47
1	9r	23	TRP	CA-CB	8.12	1.66	1.53
1	cm	14	ALA	CA-C	8.12	1.63	1.52
1	eN	12	HIS	CB-CG	-8.12	1.38	1.50
1	a	39	MET	C-N	8.12	1.44	1.34
1	gT	155	GLN	C-N	8.12	1.45	1.33
1	hX	117	TRP	NE1-CE2	-8.12	1.28	1.37
1	kh	98	GLU	CA-CB	8.12	1.65	1.52
1	2W	88	ALA	CA-C	8.12	1.62	1.52
1	3Q	73	ILE	CA-CB	-8.12	1.44	1.54
1	5x	102	SER	C-N	8.12	1.44	1.33
1	5P	62	HIS	CE1-NE2	8.12	1.40	1.32
1	80	107	THR	CA-CB	-8.12	1.40	1.53
1	88	203	LYS	CA-CB	8.12	1.66	1.53
1	8z	3	VAL	N-CA	-8.12	1.36	1.46
1	a4	72	THR	CA-C	-8.12	1.42	1.52
1	c3	218	CYS	CA-CB	8.12	1.65	1.53
1	cx	37	ILE	CA-C	8.12	1.60	1.52
1	eo	72	THR	N-CA	-8.12	1.36	1.46
1	dz	27	VAL	N-CA	-8.12	1.36	1.46
1	e6	86	VAL	CA-CB	-8.12	1.44	1.54
1	fh	113	GLU	C-N	8.12	1.44	1.33
1	iG	133	TRP	CA-C	8.12	1.63	1.52
1	2D	211	LEU	N-CA	-8.12	1.36	1.46
1	4b	90	PRO	CA-C	8.12	1.64	1.52
1	8f	121	ASN	CA-C	-8.12	1.44	1.52
1	8u	109	SER	CA-C	-8.12	1.42	1.52
1	bU	119	THR	C-N	8.12	1.45	1.33
1	o	21	ASN	CA-CB	8.12	1.66	1.53
1	dT	184	TRP	NE1-CE2	-8.11	1.28	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jU	86	VAL	C-O	-8.11	1.15	1.24
1	gf	169	TYR	CA-CB	8.11	1.66	1.53
1	21	51	ASP	N-CA	-8.11	1.36	1.46
1	lr	125	PRO	N-CA	8.11	1.53	1.47
1	2k	84	HIS	CA-CB	8.11	1.64	1.53
1	3q	175	GLU	C-N	8.11	1.45	1.33
1	44	85	PRO	CA-CB	8.11	1.64	1.53
1	lA	39	MET	C-N	8.11	1.44	1.33
1	6i	101	GLY	CA-C	8.11	1.61	1.52
1	a2	12	HIS	CG-CD2	8.11	1.44	1.35
1	b6	117	TRP	NE1-CE2	-8.11	1.28	1.37
1	dv	90	PRO	N-CA	-8.11	1.39	1.46
1	gl	164	TYR	C-N	8.11	1.44	1.33
1	jW	14	ALA	N-CA	-8.11	1.35	1.46
1	5I	135	ILE	C-N	8.11	1.44	1.33
1	bq	178	SER	CA-C	8.11	1.64	1.53
1	1l	133	TRP	CA-C	8.11	1.63	1.52
1	1m	154	ARG	CZ-NH2	-8.11	1.23	1.33
1	em	101	GLY	CA-C	-8.11	1.43	1.52
1	kt	124	ILE	N-CA	-8.11	1.38	1.46
1	2t	23	TRP	N-CA	-8.11	1.36	1.46
1	2F	166	ASP	C-N	8.11	1.45	1.33
1	52	37	ILE	CA-C	8.11	1.60	1.52
1	aM	62	HIS	CE1-NE2	8.11	1.40	1.32
1	hh	167	ARG	CD-NE	8.11	1.57	1.46
1	ks	184	TRP	NE1-CE2	8.11	1.46	1.37
1	lF	207	PRO	C-N	8.11	1.45	1.33
1	3Q	219	GLN	CA-C	8.11	1.62	1.52
1	9i	197	ASP	C-N	8.11	1.44	1.33
1	9u	140	LYS	CA-C	8.11	1.63	1.52
1	dC	129	ILE	CA-CB	-8.11	1.45	1.54
1	g0	192	GLN	C-N	8.11	1.44	1.33
1	9Q	132	ARG	CD-NE	8.11	1.57	1.46
1	3	10	MET	CA-C	8.11	1.63	1.52
1	H	166	ASP	C-N	8.11	1.45	1.34
1	O	90	PRO	N-CA	8.11	1.56	1.47
1	1M	87	HIS	ND1-CE1	8.10	1.40	1.32
1	kH	68	MET	CA-CB	8.10	1.66	1.53
1	25	170	LYS	CA-C	8.10	1.63	1.52
1	2u	87	HIS	CB-CG	8.10	1.61	1.50
1	3z	87	HIS	C-N	8.10	1.44	1.33
1	7x	16	SER	CA-C	-8.10	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9x	136	LEU	CA-C	8.10	1.63	1.52
1	al	214	MET	CA-C	-8.10	1.42	1.52
1	12	147	PRO	CA-C	8.10	1.61	1.52
1	aX	12	HIS	CD2-NE2	8.10	1.46	1.37
1	dA	203	LYS	CA-CB	8.10	1.66	1.53
1	4c	125	PRO	CA-C	8.10	1.59	1.53
1	df	208	ALA	CA-C	8.10	1.63	1.52
1	ho	148	THR	C-N	8.10	1.45	1.33
1	iO	132	ARG	CA-CB	8.10	1.66	1.53
1	21	2	ILE	C-N	8.10	1.44	1.33
1	5T	177	ALA	N-CA	-8.10	1.35	1.45
1	6V	167	ARG	CA-C	8.10	1.63	1.52
1	ax	102	SER	N-CA	-8.10	1.36	1.46
1	cX	7	GLN	N-CA	-8.10	1.37	1.46
1	82	147	PRO	CA-C	8.10	1.60	1.52
1	p	63	GLN	CA-C	-8.10	1.42	1.52
1	8x	62	HIS	CG-CD2	8.10	1.44	1.35
1	gZ	62	HIS	CE1-NE2	8.10	1.40	1.32
1	hh	18	ARG	CD-NE	8.10	1.57	1.46
1	kA	167	ARG	CD-NE	8.10	1.57	1.46
1	3z	120	HIS	CB-CG	8.10	1.61	1.50
1	7T	105	ALA	C-N	8.10	1.43	1.33
1	8v	189	LEU	N-CA	-8.10	1.38	1.46
1	dx	157	PRO	N-CA	-8.10	1.36	1.47
1	gq	124	ILE	CA-C	-8.09	1.45	1.53
1	i4	195	ASN	CA-C	8.09	1.62	1.53
1	kg	120	HIS	CG-CD2	8.09	1.44	1.35
1	ku	73	ILE	CA-CB	8.09	1.63	1.54
1	kX	216	THR	N-CA	-8.09	1.36	1.46
1	2c	117	TRP	CA-CB	8.09	1.65	1.53
1	4C	78	ALA	N-CA	-8.09	1.36	1.46
1	6C	189	LEU	N-CA	-8.09	1.38	1.46
1	de	124	ILE	CA-C	8.09	1.59	1.53
1	dZ	156	GLY	N-CA	8.09	1.55	1.44
1	8z	82	ARG	CD-NE	8.09	1.57	1.46
1	8C	67	GLN	CA-CB	8.09	1.65	1.53
1	aZ	25	LYS	N-CA	-8.09	1.35	1.46
1	ca	86	VAL	CA-C	-8.09	1.43	1.52
1	eN	135	ILE	N-CA	-8.09	1.37	1.46
1	3e	92	GLU	CA-C	8.09	1.59	1.52
1	7J	121	ASN	CA-C	-8.09	1.46	1.52
1	9Y	79	GLU	CA-C	-8.09	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cG	12	HIS	CB-CG	8.09	1.61	1.50
1	i7	72	THR	N-CA	8.09	1.56	1.46
1	8F	178	SER	CA-C	8.09	1.63	1.52
1	al	168	PHE	CA-CB	8.09	1.66	1.53
1	bD	207	PRO	CA-CB	8.09	1.59	1.53
1	et	85	PRO	N-CA	-8.09	1.37	1.47
1	go	100	ARG	CA-C	-8.09	1.42	1.53
1	1S	166	ASP	CA-CB	8.09	1.66	1.53
1	iz	62	HIS	CE1-NE2	8.09	1.40	1.32
1	3J	209	ALA	C-N	8.09	1.44	1.33
1	48	173	ARG	C-N	8.09	1.44	1.33
1	8z	73	ILE	CA-C	8.09	1.62	1.52
1	e7	215	MET	N-CA	8.09	1.56	1.46
1	fL	121	ASN	CA-C	8.09	1.59	1.52
1	5p	24	VAL	CA-CB	-8.09	1.43	1.54
1	6F	136	LEU	CA-C	-8.09	1.42	1.52
1	9X	66	MET	C-O	-8.09	1.14	1.24
1	1e	16	SER	CA-C	8.09	1.62	1.52
1	d6	37	ILE	CA-C	8.09	1.61	1.52
1	fH	152	ASP	CA-CB	8.09	1.64	1.53
1	n	167	ARG	CD-NE	8.09	1.57	1.46
1	w	130	TYR	N-CA	-8.09	1.36	1.46
1	gn	37	ILE	CA-C	8.08	1.61	1.52
1	h9	160	PRO	C-N	8.08	1.44	1.34
1	2I	132	ARG	CD-NE	8.08	1.57	1.46
1	gW	154	ARG	CD-NE	8.08	1.57	1.46
1	hV	147	PRO	CA-C	8.08	1.63	1.52
1	iD	146	SER	CA-CB	8.08	1.59	1.52
1	k3	165	VAL	CA-C	8.08	1.64	1.52
1	5k	140	LYS	N-CA	-8.08	1.36	1.46
1	8F	154	ARG	N-CA	-8.08	1.35	1.45
1	9n	62	HIS	CD2-NE2	8.08	1.46	1.37
1	ah	180	GLU	CA-C	-8.08	1.42	1.52
1	17	205	LEU	CA-C	8.08	1.64	1.52
1	f2	165	VAL	CA-C	8.08	1.62	1.52
1	gv	38	PRO	N-CA	-8.08	1.37	1.47
1	h4	91	ILE	CA-CB	8.08	1.63	1.54
1	iR	154	ARG	CA-CB	8.08	1.67	1.53
1	jx	84	HIS	CE1-NE2	-8.08	1.24	1.32
1	2U	108	THR	N-CA	8.08	1.55	1.46
1	4f	164	TYR	CA-C	8.08	1.63	1.52
1	bz	23	TRP	N-CA	8.08	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dC	96	MET	N-CA	8.08	1.56	1.45
1	f7	6	LEU	C-O	-8.08	1.16	1.24
1	ff	131	LYS	C-N	8.08	1.44	1.33
1	fl	201	ILE	CA-CB	-8.08	1.45	1.54
1	1o	226	HIS	ND1-CE1	8.08	1.40	1.32
1	g9	228	ALA	C-N	8.08	1.44	1.33
1	gb	124	ILE	CA-C	8.08	1.60	1.53
1	iV	24	VAL	CA-CB	-8.08	1.45	1.54
1	2y	127	GLY	CA-C	-8.08	1.43	1.52
1	4e	7	GLN	CA-CB	8.08	1.63	1.53
1	6c	38	PRO	C-N	8.08	1.44	1.33
1	8a	206	GLY	N-CA	8.08	1.55	1.44
1	gz	87	HIS	ND1-CE1	8.08	1.40	1.32
1	6n	212	GLU	C-N	8.08	1.43	1.33
1	7D	144	MET	N-CA	-8.08	1.36	1.46
1	db	184	TRP	C-N	8.08	1.44	1.33
1	J	206	GLY	N-CA	8.08	1.55	1.44
1	gP	124	ILE	N-CA	8.07	1.52	1.46
1	ja	180	GLU	C-N	8.07	1.44	1.33
1	kJ	222	GLY	CA-C	8.07	1.59	1.52
1	bZ	74	ASN	CA-C	8.07	1.63	1.52
1	ic	104	ILE	CA-CB	8.07	1.64	1.54
1	kk	226	HIS	CA-C	8.07	1.63	1.52
1	2V	125	PRO	CA-CB	8.07	1.62	1.53
1	3M	146	SER	CA-CB	8.07	1.65	1.53
1	b8	208	ALA	N-CA	-8.07	1.35	1.46
1	bE	124	ILE	N-CA	-8.07	1.40	1.46
1	ch	167	ARG	CA-C	8.07	1.63	1.52
1	dv	212	GLU	CA-C	8.07	1.63	1.52
1	hs	186	THR	CA-C	8.07	1.63	1.52
1	iT	44	SER	C-N	8.07	1.44	1.33
1	jK	193	ASN	CA-C	8.07	1.65	1.52
1	7r	195	ASN	CA-C	8.07	1.62	1.52
1	19	166	ASP	C-N	8.07	1.45	1.34
1	1f	124	ILE	CA-C	8.07	1.59	1.53
1	3E	221	VAL	CA-C	-8.07	1.43	1.52
1	5l	124	ILE	CA-CB	8.07	1.60	1.54
1	8C	188	THR	CA-C	-8.07	1.44	1.53
1	9N	28	GLU	CA-C	8.07	1.62	1.52
1	eM	9	GLN	C-N	8.07	1.45	1.33
1	Y	45	GLU	CA-CB	8.07	1.65	1.53
1	aC	109	SER	N-CA	8.07	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fe	9	GLN	CA-C	8.07	1.63	1.52
1	ff	178	SER	CA-CB	8.07	1.66	1.53
1	gL	23	TRP	NE1-CE2	8.07	1.46	1.37
1	lo	181	VAL	CA-CB	8.07	1.64	1.54
1	A	164	TYR	CA-CB	8.07	1.66	1.53
1	5l	216	THR	CA-CB	8.07	1.64	1.53
1	6b	195	ASN	CA-C	8.07	1.62	1.53
1	7l	19	THR	CA-C	8.07	1.63	1.52
1	7T	15	ILE	C-O	-8.07	1.15	1.24
1	8t	178	SER	CA-CB	8.07	1.66	1.53
1	96	40	PHE	CA-C	8.07	1.63	1.52
1	bp	96	MET	CA-C	8.07	1.62	1.52
1	cl	98	GLU	C-N	8.07	1.44	1.33
1	cx	90	PRO	CA-CB	8.07	1.65	1.53
1	dz	87	HIS	ND1-CE1	8.07	1.40	1.32
1	fY	226	HIS	CB-CG	8.07	1.61	1.50
1	hn	109	SER	N-CA	8.06	1.55	1.46
1	hD	194	ALA	CA-CB	8.06	1.65	1.53
1	iJ	180	GLU	CA-C	8.06	1.63	1.52
1	l3	12	HIS	ND1-CE1	8.06	1.40	1.32
1	7J	39	MET	CA-C	8.06	1.62	1.52
1	2l	53	ASN	CA-CB	8.06	1.65	1.53
1	8S	39	MET	CA-CB	8.06	1.66	1.53
1	l	202	LEU	N-CA	8.06	1.55	1.46
1	X	203	LYS	CA-C	8.06	1.63	1.52
1	aP	99	PRO	CA-CB	-8.06	1.45	1.54
1	b9	197	ASP	N-CA	-8.06	1.36	1.46
1	bI	63	GLN	CA-C	8.06	1.63	1.52
1	eN	40	PHE	C-N	8.06	1.44	1.33
1	f6	40	PHE	CA-CB	8.06	1.66	1.53
1	56	107	THR	CA-C	-8.06	1.44	1.53
1	1y	23	TRP	CA-CB	8.06	1.65	1.53
1	gh	140	LYS	CA-CB	8.06	1.65	1.53
1	2q	196	PRO	C-N	8.06	1.44	1.33
1	c1	161	PHE	C-N	8.06	1.44	1.33
1	cA	202	LEU	CA-CB	8.06	1.65	1.53
1	eB	201	ILE	CA-CB	-8.06	1.44	1.54
1	eB	51	ASP	CA-C	8.06	1.63	1.52
1	fa	186	THR	N-CA	8.06	1.56	1.46
1	gQ	161	PHE	CA-C	8.05	1.63	1.52
1	je	95	GLN	CA-C	8.06	1.62	1.52
1	lE	182	LYS	CA-C	8.05	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	72	193	ASN	CA-C	-8.06	1.42	1.53
1	hB	86	VAL	CA-C	8.05	1.62	1.52
1	i0	190	LEU	C-N	8.05	1.44	1.33
1	43	18	ARG	CD-NE	8.05	1.57	1.46
1	5P	34	PRO	N-CD	-8.05	1.36	1.47
1	5W	85	PRO	CA-CB	8.05	1.64	1.53
1	85	201	ILE	C-N	8.05	1.44	1.34
1	8c	197	ASP	CA-CB	8.06	1.66	1.53
1	fO	87	HIS	ND1-CE1	8.06	1.40	1.32
1	3h	202	LEU	CA-CB	8.05	1.65	1.53
1	5l	88	ALA	CA-C	-8.05	1.43	1.52
1	5m	7	GLN	N-CA	-8.05	1.36	1.46
1	93	153	ILE	CA-CB	-8.05	1.46	1.54
1	as	106	GLY	CA-C	-8.05	1.43	1.51
1	1b	123	PRO	C-N	8.05	1.40	1.33
1	1h	180	GLU	N-CA	8.05	1.56	1.46
1	j1	62	HIS	CG-CD2	8.05	1.44	1.35
1	lF	40	PHE	N-CA	-8.05	1.36	1.46
1	9P	84	HIS	CB-CG	8.05	1.61	1.50
1	fy	124	ILE	CA-CB	-8.05	1.45	1.53
1	jp	38	PRO	N-CA	-8.05	1.37	1.47
1	kt	137	GLY	CA-C	-8.05	1.42	1.51
1	8O	2	ILE	CA-C	-8.05	1.42	1.52
1	fO	218	CYS	CA-CB	8.05	1.65	1.53
1	id	122	PRO	N-CD	-8.05	1.36	1.47
1	1O	159	GLU	CA-C	8.05	1.61	1.53
1	lG	222	GLY	N-CA	8.05	1.57	1.45
1	9x	140	LYS	CA-C	8.05	1.63	1.52
1	9E	73	ILE	CA-CB	-8.05	1.45	1.54
1	5g	114	GLN	N-CA	-8.05	1.36	1.46
1	cI	164	TYR	C-N	8.05	1.44	1.33
1	d1	49	PRO	CA-C	8.05	1.63	1.52
1	ju	111	LEU	CA-CB	8.05	1.65	1.53
1	jQ	167	ARG	CA-CB	8.04	1.65	1.53
1	l3	4	GLN	CA-CB	8.05	1.67	1.53
1	2b	82	ARG	CA-C	8.04	1.63	1.52
1	2f	165	VAL	CA-CB	-8.04	1.44	1.54
1	43	226	HIS	CG-CD2	8.05	1.44	1.35
1	78	142	VAL	CA-CB	8.05	1.64	1.54
1	9D	99	PRO	N-CA	-8.05	1.37	1.47
1	e1	191	VAL	CA-CB	8.05	1.64	1.54
1	3D	93	PRO	CA-C	8.04	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5t	84	HIS	CD2-NE2	8.04	1.46	1.37
1	dy	121	ASN	CA-CB	8.04	1.65	1.53
1	ex	54	THR	N-CA	8.04	1.56	1.46
1	ki	120	HIS	ND1-CE1	8.04	1.40	1.32
1	4w	143	ARG	CD-NE	8.04	1.57	1.46
1	gS	194	ALA	CA-C	8.04	1.63	1.53
1	1M	191	VAL	CA-C	8.04	1.63	1.52
1	56	161	PHE	N-CA	-8.04	1.36	1.46
1	5V	125	PRO	CA-CB	8.04	1.59	1.53
1	80	21	ASN	CA-C	8.04	1.62	1.52
1	9V	120	HIS	ND1-CE1	8.04	1.40	1.32
1	eZ	26	VAL	N-CA	8.04	1.55	1.46
1	9y	123	PRO	C-N	8.04	1.39	1.32
1	1j	222	GLY	CA-C	8.04	1.62	1.52
1	dw	37	ILE	CA-CB	8.04	1.59	1.53
1	1r	159	GLU	CA-C	-8.04	1.44	1.52
1	g	132	ARG	CA-C	-8.04	1.41	1.52
1	ig	133	TRP	CA-C	8.04	1.63	1.52
1	iD	166	ASP	CA-CB	8.04	1.66	1.53
1	4Y	175	GLU	CA-C	8.04	1.63	1.52
1	15	108	THR	N-CA	-8.04	1.36	1.46
1	c2	58	THR	C-N	8.04	1.41	1.33
1	cR	163	ASP	N-CA	8.04	1.56	1.45
1	eY	12	HIS	CA-C	8.04	1.62	1.52
1	3x	37	ILE	CA-C	8.04	1.59	1.52
1	4D	166	ASP	CA-CB	8.04	1.65	1.53
1	a2	37	ILE	CA-C	8.04	1.61	1.52
1	bV	121	ASN	CA-C	8.04	1.59	1.52
1	fQ	191	VAL	CA-CB	8.04	1.64	1.54
1	1h	195	ASN	CA-C	-8.04	1.44	1.53
1	fE	113	GLU	N-CA	-8.04	1.36	1.46
1	fU	219	GLN	CA-CB	8.04	1.63	1.53
1	h4	188	THR	CA-C	-8.04	1.45	1.52
1	3r	43	LEU	CA-C	8.04	1.63	1.52
1	ba	176	GLN	CA-CB	8.04	1.65	1.53
1	hI	15	ILE	CA-CB	-8.03	1.46	1.54
1	jb	58	THR	C-N	8.04	1.43	1.33
1	lQ	156	GLY	CA-C	8.04	1.63	1.51
1	8v	207	PRO	CA-C	8.04	1.60	1.52
1	jO	24	VAL	N-CA	-8.03	1.35	1.46
1	2v	200	THR	C-N	8.04	1.44	1.33
1	8D	180	GLU	N-CA	-8.04	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fG	197	ASP	CA-C	-8.04	1.42	1.52
1	4S	65	ALA	CA-CB	8.03	1.66	1.53
1	5P	195	ASN	CA-C	8.03	1.63	1.53
1	77	12	HIS	CE1-NE2	8.03	1.40	1.32
1	ba	37	ILE	CA-CB	-8.04	1.50	1.54
1	h	183	ASN	CA-CB	8.04	1.65	1.53
1	iQ	28	GLU	CA-C	8.03	1.62	1.52
1	3e	142	VAL	C-N	8.03	1.44	1.33
1	b6	147	PRO	C-N	8.03	1.43	1.33
1	cf	134	ILE	CA-C	-8.03	1.42	1.52
1	2E	78	ALA	CA-C	8.03	1.63	1.52
1	3S	7	GLN	N-CA	-8.03	1.35	1.46
1	7i	105	ALA	CA-C	8.03	1.64	1.52
1	8g	37	ILE	CA-C	8.03	1.59	1.52
1	bc	18	ARG	CA-C	8.03	1.63	1.52
1	dM	152	ASP	N-CA	-8.03	1.35	1.46
1	0	137	GLY	CA-C	-8.03	1.43	1.52
1	N	148	THR	CA-C	-8.03	1.42	1.52
1	gd	211	LEU	CB-CG	8.03	1.69	1.53
1	1J	221	VAL	CA-C	-8.03	1.41	1.53
1	kM	125	PRO	CA-CB	8.03	1.59	1.53
1	2R	195	ASN	CA-CB	8.03	1.65	1.53
1	5f	120	HIS	CE1-NE2	8.03	1.40	1.32
1	8y	192	GLN	CA-C	-8.03	1.42	1.52
1	bk	84	HIS	CE1-NE2	-8.03	1.24	1.32
1	19	170	LYS	N-CA	8.03	1.56	1.46
1	e6	124	ILE	CA-C	-8.03	1.46	1.53
1	ei	87	HIS	ND1-CE1	8.03	1.40	1.32
1	E	62	HIS	ND1-CE1	8.03	1.40	1.32
1	3O	207	PRO	CA-C	-8.03	1.41	1.52
1	1W	193	ASN	C-N	8.03	1.44	1.33
1	2V	90	PRO	N-CA	8.03	1.56	1.47
1	6A	148	THR	N-CA	8.03	1.56	1.45
1	8a	100	ARG	CD-NE	8.03	1.57	1.46
1	aD	117	TRP	NE1-CE2	-8.03	1.28	1.37
1	es	148	THR	N-CA	8.03	1.55	1.46
1	V	204	ALA	CA-C	8.03	1.62	1.52
1	g2	221	VAL	CA-C	8.03	1.62	1.53
1	31	141	ILE	CA-CB	8.02	1.63	1.54
1	8n	55	MET	N-CA	-8.02	1.36	1.46
1	8I	213	GLU	CA-CB	8.02	1.67	1.53
1	9e	192	GLN	CA-C	-8.02	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jm	137	GLY	CA-C	-8.02	1.43	1.52
1	jV	158	LYS	CA-C	8.02	1.63	1.52
1	2A	136	LEU	N-CA	-8.02	1.36	1.46
1	52	25	LYS	N-CA	-8.02	1.36	1.46
1	5w	143	ARG	CA-CB	8.02	1.66	1.53
1	74	87	HIS	CD2-NE2	8.02	1.46	1.37
1	9d	94	GLY	CA-C	-8.02	1.40	1.51
1	a8	49	PRO	CA-CB	-8.02	1.42	1.53
1	bF	27	VAL	N-CA	8.02	1.56	1.46
1	cq	186	THR	CA-C	-8.02	1.42	1.52
1	fT	101	GLY	N-CA	8.02	1.55	1.45
1	gX	141	ILE	CA-CB	8.02	1.63	1.54
1	1N	43	LEU	C-N	8.02	1.44	1.33
1	lI	84	HIS	ND1-CE1	8.02	1.40	1.32
1	bl	82	ARG	CA-C	8.02	1.63	1.52
1	g	24	VAL	CA-CB	-8.02	1.45	1.54
1	ih	114	GLN	CA-C	8.02	1.63	1.52
1	2s	166	ASP	CA-CB	8.02	1.65	1.53
1	3s	13	GLN	CA-C	8.02	1.62	1.52
1	4q	132	ARG	CZ-NH1	-8.02	1.21	1.32
1	4J	121	ASN	CA-C	8.02	1.63	1.52
1	7a	117	TRP	N-CA	8.02	1.56	1.46
1	9g	153	ILE	C-N	8.02	1.43	1.33
1	1u	136	LEU	C-N	8.02	1.43	1.33
1	g3	22	ALA	N-CA	-8.02	1.36	1.46
1	ha	52	LEU	CA-CB	8.02	1.65	1.53
1	1R	170	LYS	CA-CB	8.02	1.66	1.53
1	kI	10	MET	C-N	8.02	1.43	1.33
1	lh	25	LYS	CA-CB	8.02	1.65	1.53
1	5m	41	SER	CA-C	8.02	1.63	1.52
1	2Q	159	GLU	C-N	8.02	1.40	1.33
1	3l	226	HIS	CA-C	8.02	1.62	1.52
1	4F	98	GLU	CA-C	8.02	1.61	1.53
1	c5	28	GLU	N-CA	8.02	1.55	1.46
1	eM	18	ARG	C-N	8.02	1.44	1.33
1	5v	108	THR	N-CA	8.02	1.56	1.46
1	8h	95	GLN	CA-C	-8.02	1.42	1.52
1	jF	146	SER	CA-C	8.01	1.61	1.52
1	64	96	MET	CA-C	8.01	1.62	1.52
1	b1	120	HIS	ND1-CE1	8.01	1.40	1.32
1	d1	224	PRO	C-N	8.01	1.43	1.33
1	h4	166	ASP	CA-C	8.01	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jv	61	GLY	CA-C	-8.01	1.44	1.52
1	2B	204	ALA	C-N	8.01	1.44	1.33
1	2N	142	VAL	CA-C	8.01	1.62	1.52
1	6e	87	HIS	ND1-CE1	8.01	1.40	1.32
1	81	180	GLU	N-CA	-8.01	1.36	1.46
1	8b	16	SER	CA-C	8.01	1.61	1.53
1	ej	53	ASN	CA-CB	8.01	1.66	1.53
1	jF	149	SER	C-N	8.01	1.42	1.34
1	21	198	CYS	CA-CB	8.01	1.66	1.53
1	kI	199	LYS	C-N	8.01	1.44	1.33
1	3u	68	MET	N-CA	-8.01	1.36	1.46
1	bv	115	ILE	CA-C	8.01	1.62	1.52
1	30	121	ASN	CA-C	8.01	1.59	1.52
1	3i	110	THR	C-N	8.01	1.44	1.33
1	43	120	HIS	ND1-CE1	8.01	1.40	1.32
1	4p	84	HIS	ND1-CE1	8.01	1.40	1.32
1	6A	37	ILE	CA-CB	8.01	1.58	1.54
1	7e	37	ILE	CA-CB	8.01	1.58	1.54
1	9A	98	GLU	CA-C	8.01	1.62	1.53
1	au	185	MET	CA-C	8.01	1.63	1.52
1	dx	209	ALA	C-N	8.01	1.44	1.33
1	S	136	LEU	C-N	8.01	1.43	1.33
1	6	108	THR	CA-C	-8.01	1.43	1.52
1	ge	37	ILE	CA-C	8.01	1.60	1.52
1	gU	124	ILE	CA-C	-8.01	1.46	1.53
1	hZ	212	GLU	CA-C	8.01	1.63	1.52
1	lJ	82	ARG	CA-CB	8.01	1.65	1.53
1	3i	191	VAL	N-CA	-8.01	1.36	1.46
1	8z	124	ILE	CA-C	8.01	1.59	1.53
1	9q	82	ARG	CA-C	8.01	1.63	1.52
1	bK	139	ASN	C-N	8.01	1.44	1.33
1	O	123	PRO	C-N	8.01	1.40	1.33
1	im	193	ASN	CA-CB	8.01	1.65	1.53
1	eN	12	HIS	ND1-CE1	8.01	1.40	1.32
1	fZ	170	LYS	C-N	8.01	1.44	1.33
1	gs	102	SER	CA-C	-8.00	1.42	1.52
1	gY	74	ASN	CA-C	8.00	1.63	1.52
1	h5	115	ILE	C-N	8.00	1.44	1.33
1	hf	62	HIS	CE1-NE2	8.00	1.40	1.32
1	hk	67	GLN	CA-C	8.00	1.62	1.52
1	iq	109	SER	CA-C	-8.00	1.42	1.52
1	jP	124	ILE	CA-CB	-8.00	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jZ	120	HIS	ND1-CE1	8.00	1.40	1.32
1	lA	190	LEU	C-N	8.00	1.43	1.33
1	2p	110	THR	CA-CB	8.00	1.66	1.53
1	4b	135	ILE	CA-C	8.00	1.62	1.52
1	4D	87	HIS	CA-C	-8.00	1.42	1.52
1	90	201	ILE	CA-C	8.00	1.62	1.52
1	aa	229	ARG	CD-NE	8.00	1.57	1.46
1	f7	132	ARG	CA-C	8.00	1.63	1.52
1	fT	114	GLN	CA-CB	8.00	1.65	1.53
1	7l	12	HIS	CA-C	8.00	1.62	1.52
1	9D	134	ILE	CA-C	-8.00	1.43	1.52
1	17	166	ASP	CA-CB	8.00	1.65	1.53
1	l	85	PRO	CA-CB	8.00	1.59	1.53
1	w	28	GLU	CA-C	8.00	1.63	1.52
1	gB	197	ASP	N-CA	-8.00	1.36	1.46
1	jz	12	HIS	ND1-CE1	8.00	1.40	1.32
1	1Y	95	GLN	C-N	8.00	1.45	1.33
1	k7	124	ILE	N-CA	-8.00	1.40	1.46
1	8w	205	LEU	CA-CB	8.00	1.67	1.53
1	bW	166	ASP	CA-C	8.00	1.63	1.52
1	cH	84	HIS	ND1-CE1	8.00	1.40	1.32
1	dE	40	PHE	CA-CB	8.00	1.65	1.53
1	1o	104	ILE	CA-CB	8.00	1.63	1.54
1	gu	64	ALA	N-CA	-8.00	1.36	1.46
1	gX	23	TRP	CA-CB	8.00	1.66	1.53
1	lB	165	VAL	CA-CB	-8.00	1.45	1.54
1	9d	221	VAL	N-CA	8.00	1.55	1.46
1	fA	13	GLN	CA-C	-8.00	1.42	1.52
1	kW	62	HIS	CE1-NE2	8.00	1.40	1.32
1	49	106	GLY	CA-C	8.00	1.63	1.51
1	4h	213	GLU	N-CA	-8.00	1.36	1.46
1	4I	160	PRO	CA-C	8.00	1.61	1.52
1	4U	90	PRO	C-N	8.00	1.43	1.33
1	aL	225	GLY	CA-C	-8.00	1.43	1.51
1	cM	125	PRO	CA-CB	8.00	1.58	1.53
1	iV	23	TRP	NE1-CE2	-8.00	1.28	1.37
1	jh	206	GLY	C-N	-8.00	1.24	1.33
1	5u	184	TRP	NE1-CE2	8.00	1.46	1.37
1	2w	77	ALA	C-N	7.99	1.44	1.33
1	4v	221	VAL	CA-CB	7.99	1.63	1.54
1	aK	170	LYS	CA-CB	7.99	1.65	1.53
1	bJ	216	THR	CA-C	-7.99	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cw	94	GLY	CA-C	-7.99	1.40	1.51
1	gQ	164	TYR	C-N	7.99	1.43	1.33
1	iL	172	LEU	C-N	7.99	1.44	1.33
1	4J	62	HIS	CG-ND1	7.99	1.47	1.38
1	8s	192	GLN	CA-CB	7.99	1.65	1.53
1	bi	125	PRO	CA-C	7.99	1.61	1.53
1	c0	126	VAL	C-N	7.99	1.43	1.33
1	gz	184	TRP	CA-CB	7.99	1.65	1.53
1	3G	21	ASN	C-N	7.99	1.43	1.33
1	4T	197	ASP	CA-C	7.99	1.63	1.52
1	89	124	ILE	CA-C	7.99	1.60	1.53
1	9b	184	TRP	NE1-CE2	7.99	1.46	1.37
1	ba	124	ILE	CA-C	-7.99	1.47	1.53
1	bI	210	THR	C-N	7.99	1.44	1.33
1	f2	37	ILE	CA-C	7.99	1.61	1.52
1	lx	37	ILE	CA-CB	-7.99	1.50	1.54
1	3y	13	GLN	C-N	7.99	1.44	1.33
1	5y	62	HIS	CB-CG	-7.99	1.39	1.50
1	6G	68	MET	N-CA	7.99	1.56	1.46
1	9I	86	VAL	CA-CB	-7.99	1.44	1.54
1	b5	10	MET	N-CA	-7.99	1.35	1.46
1	dq	104	ILE	C-N	7.99	1.44	1.33
1	h2	125	PRO	CA-CB	7.99	1.58	1.53
1	hx	127	GLY	CA-C	-7.99	1.40	1.51
1	gk	126	VAL	CA-CB	-7.99	1.45	1.54
1	3C	155	GLN	N-CA	-7.99	1.37	1.46
1	az	55	MET	CA-C	-7.99	1.42	1.52
1	dL	192	GLN	C-N	7.99	1.44	1.33
1	eS	224	PRO	CA-C	7.99	1.63	1.52
1	ia	216	THR	CA-C	7.98	1.63	1.52
1	32	124	ILE	CA-C	7.98	1.60	1.53
1	46	37	ILE	CA-CB	7.98	1.59	1.53
1	4v	74	ASN	N-CA	7.98	1.55	1.46
1	7E	110	THR	N-CA	7.98	1.55	1.45
1	86	32	PHE	CA-CB	-7.98	1.43	1.53
1	a6	92	GLU	C-N	7.98	1.43	1.33
1	bm	84	HIS	N-CA	7.98	1.56	1.45
1	i8	230	VAL	N-CA	-7.98	1.36	1.45
1	jh	54	THR	CA-C	-7.98	1.42	1.52
1	kt	181	VAL	C-N	7.98	1.44	1.33
1	kB	113	GLU	N-CA	-7.98	1.36	1.46
1	2W	56	LEU	CA-C	7.98	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4I	22	ALA	C-N	7.98	1.44	1.33
1	cW	37	ILE	CA-C	7.98	1.60	1.52
1	d5	165	VAL	CA-CB	-7.98	1.44	1.54
1	1	178	SER	N-CA	-7.98	1.35	1.45
1	gu	19	THR	C-N	7.98	1.44	1.33
1	2d	59	VAL	CA-CB	-7.98	1.44	1.54
1	fL	183	ASN	CA-CB	7.98	1.65	1.53
1	ga	165	VAL	N-CA	7.98	1.56	1.46
1	i1	2	ILE	CA-C	7.98	1.62	1.53
1	lP	55	MET	CA-C	7.98	1.62	1.52
1	84	115	ILE	CA-C	-7.98	1.42	1.52
1	95	47	ALA	CA-C	-7.98	1.42	1.52
1	c9	107	THR	C-O	-7.98	1.14	1.24
1	ct	161	PHE	N-CA	7.98	1.56	1.46
1	dM	226	HIS	ND1-CE1	7.98	1.40	1.32
1	eM	159	GLU	CA-C	7.98	1.61	1.52
1	jB	124	ILE	CA-C	7.98	1.59	1.53
1	54	204	ALA	CA-C	7.98	1.63	1.52
1	5i	87	HIS	ND1-CE1	7.98	1.40	1.32
1	7k	89	GLY	CA-C	7.98	1.63	1.51
1	au	39	MET	CA-CB	7.98	1.65	1.53
1	dY	12	HIS	CB-CG	7.98	1.61	1.50
1	eA	136	LEU	C-N	7.98	1.43	1.34
1	f3	54	THR	C-N	7.98	1.44	1.33
1	3d	226	HIS	CB-CG	7.98	1.61	1.50
1	53	7	GLN	CA-CB	7.98	1.64	1.53
1	6E	116	GLY	CA-C	7.98	1.60	1.52
1	8Y	123	PRO	C-N	7.98	1.40	1.33
1	1J	197	ASP	N-CA	-7.97	1.35	1.46
1	23	83	LEU	C-N	7.97	1.40	1.33
1	2b	169	TYR	CA-C	-7.97	1.42	1.52
1	8s	23	TRP	CA-C	7.97	1.62	1.52
1	ee	25	LYS	CA-CB	7.97	1.65	1.53
1	1w	59	VAL	CA-C	-7.97	1.43	1.52
1	gC	132	ARG	C-N	7.97	1.44	1.33
1	j9	87	HIS	CG-CD2	7.97	1.44	1.35
1	79	159	GLU	CA-C	7.97	1.61	1.53
1	83	14	ALA	N-CA	-7.97	1.36	1.46
1	ad	36	VAL	CA-CB	-7.97	1.44	1.54
1	aC	124	ILE	N-CA	-7.97	1.39	1.46
1	dt	62	HIS	CE1-NE2	7.97	1.40	1.32
1	5z	55	MET	CA-C	7.97	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6a	5	ASN	CA-CB	7.97	1.66	1.53
1	7Y	54	THR	N-CA	-7.97	1.36	1.46
1	aB	81	ASP	CA-C	-7.97	1.42	1.52
1	d3	26	VAL	CA-CB	-7.97	1.44	1.54
1	dH	86	VAL	CA-C	7.97	1.61	1.52
1	dO	77	ALA	CA-CB	7.97	1.65	1.53
1	u	124	ILE	CA-CB	-7.97	1.45	1.53
1	J	193	ASN	CA-C	7.97	1.63	1.52
1	jM	146	SER	N-CA	7.97	1.56	1.46
1	48	58	THR	CA-C	7.97	1.64	1.52
1	8j	27	VAL	CA-C	7.97	1.62	1.52
1	a6	215	MET	CA-C	7.97	1.63	1.52
1	G	71	GLU	CA-C	7.97	1.63	1.52
1	1P	198	CYS	C-N	7.97	1.44	1.33
1	kB	137	GLY	C-N	7.97	1.44	1.34
1	64	218	CYS	CA-CB	7.97	1.65	1.53
1	7R	81	ASP	CA-C	7.97	1.63	1.52
1	8D	18	ARG	N-CA	7.97	1.55	1.46
1	dz	62	HIS	CA-C	-7.97	1.43	1.53
1	1n	187	GLU	CA-CB	7.97	1.66	1.53
1	em	175	GLU	C-N	7.97	1.44	1.33
1	1G	103	ASP	CA-C	7.96	1.63	1.52
1	j2	159	GLU	CA-C	-7.96	1.43	1.52
1	22	107	THR	CA-C	-7.96	1.42	1.52
1	lk	103	ASP	CA-C	7.96	1.62	1.52
1	2F	84	HIS	CA-C	7.96	1.61	1.52
1	4n	162	ARG	CD-NE	7.96	1.57	1.46
1	b2	124	ILE	CA-CB	-7.96	1.45	1.53
1	bK	12	HIS	CA-C	-7.96	1.43	1.52
1	ef	64	ALA	CA-CB	7.96	1.66	1.53
1	fm	88	ALA	N-CA	-7.96	1.36	1.46
1	jX	201	ILE	CA-C	-7.96	1.43	1.52
1	9g	175	GLU	CA-C	7.96	1.62	1.52
1	1I	124	ILE	CA-C	7.96	1.61	1.52
1	hX	213	GLU	CA-CB	7.96	1.65	1.53
1	79	3	VAL	CA-C	7.96	1.63	1.52
1	8b	84	HIS	ND1-CE1	7.96	1.40	1.32
1	bw	92	GLU	CA-CB	7.96	1.64	1.53
1	5k	51	ASP	CA-C	7.96	1.63	1.52
1	1	77	ALA	CA-C	7.96	1.63	1.52
1	hi	32	PHE	C-N	7.96	1.42	1.33
1	kZ	181	VAL	N-CA	7.96	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ls	150	ILE	CA-CB	-7.96	1.45	1.54
1	2Q	135	ILE	CA-C	7.96	1.62	1.52
1	3r	165	VAL	CA-CB	7.96	1.64	1.54
1	3U	107	THR	CA-C	-7.96	1.47	1.52
1	1P	47	ALA	CA-CB	7.96	1.66	1.53
1	ix	226	HIS	ND1-CE1	7.96	1.40	1.32
1	iz	116	GLY	CA-C	-7.96	1.43	1.52
1	ky	138	LEU	CA-CB	7.96	1.65	1.53
1	kY	70	LYS	N-CA	-7.96	1.36	1.46
1	6u	33	SER	CA-CB	7.96	1.62	1.53
1	bC	72	THR	C-N	7.96	1.43	1.33
1	1m	78	ALA	N-CA	-7.96	1.36	1.46
1	f	124	ILE	CA-C	-7.96	1.46	1.53
1	hX	74	ASN	CA-CB	7.95	1.65	1.53
1	jp	120	HIS	ND1-CE1	7.95	1.40	1.32
1	2l	127	GLY	CA-C	-7.95	1.40	1.51
1	3i	53	ASN	C-N	-7.95	1.23	1.33
1	4L	72	THR	CA-C	-7.95	1.42	1.52
1	4V	201	ILE	C-N	7.95	1.44	1.33
1	6A	103	ASP	CA-CB	7.95	1.66	1.53
1	1k	166	ASP	N-CA	-7.95	1.36	1.46
1	h9	29	GLU	CA-C	7.95	1.63	1.52
1	lK	180	GLU	N-CA	7.95	1.55	1.46
1	5v	214	MET	CA-C	7.95	1.63	1.52
1	kt	129	ILE	CA-CB	7.95	1.64	1.54
1	kG	171	THR	C-N	7.95	1.44	1.34
1	lh	120	HIS	ND1-CE1	7.95	1.40	1.32
1	6B	178	SER	CA-C	-7.95	1.42	1.53
1	a9	143	ARG	N-CA	-7.95	1.36	1.46
1	cx	25	LYS	CA-CB	7.95	1.65	1.53
1	u	221	VAL	CA-CB	-7.95	1.46	1.54
1	J	46	GLY	N-CA	7.95	1.57	1.45
1	ij	134	ILE	C-N	7.95	1.44	1.33
1	kk	220	GLY	CA-C	7.95	1.61	1.51
1	kO	114	GLN	CA-C	7.95	1.62	1.52
1	kQ	138	LEU	CA-CB	7.95	1.65	1.53
1	27	10	MET	N-CA	-7.95	1.36	1.46
1	3F	86	VAL	CA-CB	-7.95	1.44	1.54
1	4y	37	ILE	CA-C	7.95	1.61	1.52
1	7D	115	ILE	CA-CB	7.95	1.64	1.54
1	7Q	133	TRP	C-N	7.95	1.43	1.33
1	7U	187	GLU	C-N	7.95	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7X	83	LEU	C-N	7.95	1.40	1.33
1	9o	113	GLU	CA-C	7.95	1.63	1.52
1	10	169	TYR	C-N	7.95	1.44	1.33
1	ba	12	HIS	ND1-CE1	7.95	1.40	1.32
1	cj	173	ARG	CA-CB	7.95	1.65	1.53
1	d3	16	SER	CA-C	-7.95	1.43	1.53
1	hZ	149	SER	N-CA	-7.95	1.35	1.45
1	bB	39	MET	CA-CB	7.95	1.65	1.53
1	g2	177	ALA	CA-C	7.95	1.62	1.52
1	g	84	HIS	CA-C	7.95	1.59	1.52
1	g8	124	ILE	N-CA	-7.95	1.40	1.46
1	hs	211	LEU	C-N	7.95	1.44	1.33
1	ib	162	ARG	CD-NE	7.95	1.57	1.46
1	59	130	TYR	CA-CB	7.95	1.66	1.53
1	aK	78	ALA	CA-C	7.95	1.63	1.52
1	1f	207	PRO	CA-C	-7.95	1.40	1.52
1	dS	12	HIS	CD2-NE2	-7.95	1.29	1.37
1	e3	205	LEU	CA-C	-7.95	1.42	1.52
1	1N	33	SER	CA-C	-7.94	1.45	1.53
1	1P	62	HIS	CE1-NE2	7.94	1.40	1.32
1	4U	116	GLY	CA-C	-7.94	1.43	1.52
1	dx	92	GLU	N-CA	7.94	1.56	1.45
1	jj	1	PRO	N-CD	7.94	1.58	1.47
1	kt	31	ALA	CA-C	7.94	1.63	1.52
1	3f	154	ARG	N-CA	-7.94	1.36	1.45
1	3U	158	LYS	N-CA	-7.94	1.37	1.46
1	5y	169	TYR	CA-C	7.94	1.63	1.52
1	5H	50	GLN	CA-C	7.94	1.63	1.52
1	7I	181	VAL	CA-CB	-7.94	1.44	1.54
1	9t	37	ILE	CA-C	-7.94	1.45	1.52
1	aV	47	ALA	CA-C	7.94	1.63	1.52
1	b7	71	GLU	CA-CB	7.94	1.66	1.53
1	dC	139	ASN	CA-CB	7.94	1.66	1.53
1	dN	123	PRO	C-N	7.94	1.40	1.33
1	kA	120	HIS	N-CA	-7.94	1.35	1.45
1	kV	146	SER	C-N	7.94	1.42	1.33
1	l8	5	ASN	C-N	7.94	1.45	1.34
1	2e	226	HIS	CD2-NE2	7.94	1.46	1.37
1	2i	49	PRO	C-N	7.94	1.44	1.33
1	bX	124	ILE	CA-C	7.94	1.61	1.52
1	cU	181	VAL	CA-CB	-7.94	1.45	1.54
1	y	215	MET	C-N	7.94	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jt	25	LYS	CA-CB	7.94	1.66	1.53
1	hz	140	LYS	N-CA	7.94	1.55	1.46
1	jm	188	THR	CA-CB	7.94	1.66	1.53
1	97	34	PRO	CA-C	7.94	1.63	1.52
1	14	59	VAL	N-CA	7.94	1.56	1.46
1	cq	18	ARG	CA-CB	7.94	1.66	1.53
1	dl	202	LEU	CA-C	7.94	1.62	1.52
1	2k	216	THR	N-CA	-7.94	1.36	1.46
1	7N	28	GLU	CA-C	7.94	1.62	1.52
1	1C	4	GLN	CA-CB	7.93	1.66	1.53
1	jv	53	ASN	N-CA	-7.93	1.35	1.46
1	3Q	85	PRO	CA-CB	-7.93	1.48	1.53
1	6j	1	PRO	N-CD	7.93	1.58	1.47
1	bU	12	HIS	CD2-NE2	7.93	1.46	1.37
1	m	84	HIS	CA-C	7.93	1.62	1.52
1	L	10	MET	CA-C	7.93	1.62	1.52
1	ao	123	PRO	N-CA	7.93	1.57	1.47
1	aF	172	LEU	CA-CB	7.93	1.65	1.53
1	eu	164	TYR	N-CA	7.93	1.55	1.46
1	ff	29	GLU	CA-C	7.93	1.63	1.52
1	fu	150	ILE	CA-CB	-7.93	1.45	1.54
1	bo	142	VAL	CA-CB	-7.93	1.45	1.54
1	kN	45	GLU	C-N	7.93	1.42	1.33
1	3Q	13	GLN	N-CA	-7.93	1.35	1.45
1	5F	98	GLU	CA-C	7.93	1.62	1.53
1	9z	81	ASP	CA-C	7.93	1.63	1.52
1	b5	87	HIS	CA-C	7.93	1.62	1.52
1	bi	173	ARG	N-CA	-7.93	1.36	1.46
1	cy	194	ALA	C-N	7.93	1.46	1.33
1	dc	37	ILE	CA-C	7.93	1.61	1.52
1	1t	124	ILE	N-CA	-7.93	1.39	1.46
1	kt	129	ILE	CA-C	7.93	1.62	1.52
1	2x	139	ASN	CA-CB	7.93	1.65	1.53
1	4u	58	THR	N-CA	7.93	1.55	1.46
1	bD	205	LEU	CA-C	7.93	1.63	1.52
1	hB	172	LEU	CA-CB	7.93	1.64	1.53
1	lg	6	LEU	C-N	7.93	1.45	1.33
1	6w	154	ARG	CA-CB	7.93	1.65	1.53
1	bQ	230	VAL	CA-CB	7.93	1.64	1.54
1	cm	201	ILE	CA-C	7.93	1.62	1.52
1	d0	161	PHE	CA-C	7.93	1.63	1.52
1	g2	37	ILE	CA-CB	-7.93	1.48	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	62	HIS	CA-C	-7.93	1.43	1.53
1	it	67	GLN	C-N	7.92	1.44	1.33
1	lf	61	GLY	CA-C	-7.92	1.42	1.52
1	lr	126	VAL	C-N	7.92	1.45	1.33
1	2f	220	GLY	CA-C	7.92	1.61	1.51
1	4E	37	ILE	CA-CB	7.92	1.58	1.54
1	82	12	HIS	CA-CB	7.92	1.65	1.53
1	9y	22	ALA	CA-C	7.92	1.62	1.52
1	9F	92	GLU	CA-CB	7.92	1.66	1.53
1	dM	125	PRO	CA-CB	7.92	1.61	1.53
1	eG	69	LEU	C-N	7.92	1.44	1.33
1	fA	128	GLU	CA-C	7.92	1.63	1.52
1	hr	92	GLU	N-CA	-7.92	1.38	1.46
1	1X	50	GLN	CA-C	7.92	1.63	1.52
1	3S	172	LEU	C-N	7.92	1.44	1.34
1	b2	37	ILE	CA-CB	7.92	1.59	1.53
1	i	143	ARG	CA-CB	7.92	1.65	1.53
1	i9	87	HIS	ND1-CE1	7.92	1.40	1.32
1	jA	129	ILE	N-CA	7.92	1.55	1.46
1	2c	189	LEU	N-CA	7.92	1.55	1.46
1	2z	153	ILE	CA-C	7.92	1.61	1.52
1	7m	52	LEU	N-CA	7.92	1.56	1.46
1	9B	182	LYS	C-N	7.92	1.44	1.33
1	ax	154	ARG	C-N	7.92	1.43	1.33
1	bu	202	LEU	C-O	-7.92	1.14	1.24
1	7	29	GLU	N-CA	-7.92	1.37	1.46
1	hp	154	ARG	N-CA	7.92	1.55	1.46
1	4F	180	GLU	CA-CB	7.92	1.65	1.53
1	7y	81	ASP	CA-C	7.92	1.63	1.52
1	b3	171	THR	CA-C	7.92	1.63	1.52
1	iK	3	VAL	CA-CB	7.92	1.63	1.54
1	21	215	MET	CA-C	-7.92	1.42	1.52
1	3z	125	PRO	CA-CB	7.92	1.59	1.53
1	4h	61	GLY	N-CA	7.92	1.54	1.45
1	6k	87	HIS	C-N	7.92	1.44	1.33
1	9c	93	PRO	CA-C	7.92	1.62	1.52
1	9s	33	SER	CA-C	7.92	1.60	1.52
1	he	69	LEU	CA-C	7.92	1.62	1.52
1	id	112	GLN	CA-C	7.92	1.63	1.52
1	jN	18	ARG	CA-CB	7.92	1.65	1.53
1	2Q	60	GLY	CA-C	-7.92	1.46	1.52
1	5A	20	LEU	CA-C	7.92	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9j	129	ILE	N-CA	7.92	1.55	1.46
1	cp	79	GLU	CA-CB	7.92	1.65	1.53
1	cX	36	VAL	CA-C	-7.92	1.40	1.52
1	jZ	216	THR	N-CA	7.92	1.56	1.46
1	ah	195	ASN	CA-C	7.92	1.61	1.53
1	fE	143	ARG	CA-CB	7.92	1.65	1.53
1	hy	125	PRO	C-N	7.91	1.43	1.34
1	jd	114	GLN	C-N	7.91	1.44	1.33
1	lA	193	ASN	CA-CB	7.91	1.64	1.53
1	2e	3	VAL	N-CA	7.91	1.56	1.46
1	2O	133	TRP	NE1-CE2	-7.91	1.28	1.37
1	3s	54	THR	C-N	7.91	1.44	1.33
1	5K	34	PRO	CA-C	7.91	1.60	1.52
1	7w	80	TRP	CA-C	-7.91	1.42	1.52
1	7W	139	ASN	CA-CB	7.91	1.65	1.53
1	9a	43	LEU	CA-CB	7.91	1.66	1.53
1	cm	15	ILE	CA-C	-7.91	1.43	1.52
1	er	116	GLY	CA-C	7.91	1.61	1.51
1	hT	123	PRO	C-N	7.91	1.41	1.33
1	k3	33	SER	CA-C	7.91	1.61	1.52
1	1c	221	VAL	CA-CB	-7.91	1.46	1.54
1	gc	183	ASN	CA-CB	7.91	1.65	1.53
1	1C	100	ARG	NE-CZ	-7.91	1.24	1.33
1	iX	84	HIS	ND1-CE1	7.91	1.40	1.32
1	jV	71	GLU	C-N	7.91	1.44	1.33
1	3G	180	GLU	C-O	-7.91	1.15	1.24
1	4H	110	THR	CA-C	-7.91	1.42	1.53
1	6q	21	ASN	C-N	7.91	1.44	1.33
1	96	24	VAL	CA-CB	-7.91	1.44	1.54
1	V	110	THR	CA-C	-7.91	1.42	1.53
1	gj	115	ILE	CA-C	7.91	1.62	1.52
1	iP	87	HIS	ND1-CE1	7.91	1.40	1.32
1	kw	184	TRP	CA-CB	7.91	1.65	1.53
1	29	76	GLU	N-CA	-7.91	1.36	1.46
1	2h	140	LYS	CA-CB	7.91	1.66	1.53
1	3I	59	VAL	N-CA	-7.91	1.36	1.46
1	6D	37	ILE	CA-CB	7.91	1.59	1.53
1	7e	21	ASN	CA-CB	7.91	1.65	1.53
1	bL	164	TYR	CA-C	7.91	1.63	1.52
1	25	69	LEU	CA-CB	7.91	1.65	1.53
1	cx	68	MET	N-CA	-7.91	1.36	1.46
1	du	129	ILE	N-CA	-7.91	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gP	165	VAL	N-CA	7.91	1.56	1.46
1	iL	87	HIS	ND1-CE1	7.91	1.40	1.32
1	68	2	ILE	CA-CB	-7.91	1.45	1.54
1	ah	126	VAL	C-N	7.91	1.43	1.34
1	dK	206	GLY	CA-C	7.91	1.63	1.51
1	eX	71	GLU	CA-C	-7.91	1.42	1.52
1	t	214	MET	CA-CB	7.91	1.65	1.53
1	p	137	GLY	N-CA	7.90	1.55	1.45
1	1H	29	GLU	N-CA	7.90	1.55	1.46
1	jv	120	HIS	CB-CG	-7.90	1.39	1.50
1	4s	230	VAL	CA-C	-7.90	1.43	1.52
1	6l	62	HIS	ND1-CE1	7.90	1.40	1.32
1	dp	80	TRP	C-N	7.90	1.44	1.33
1	eo	179	GLN	CA-C	7.90	1.63	1.52
1	gf	23	TRP	CA-CB	7.90	1.65	1.53
1	6H	186	THR	N-CA	7.90	1.55	1.46
1	9Q	98	GLU	CA-C	7.90	1.62	1.53
1	aw	46	GLY	CA-C	-7.90	1.40	1.51
1	bN	62	HIS	CE1-NE2	7.90	1.40	1.32
1	cP	80	TRP	NE1-CE2	7.90	1.46	1.37
1	cU	123	PRO	C-N	7.90	1.40	1.33
1	ie	199	LYS	C-N	7.90	1.43	1.33
1	4L	37	ILE	CA-C	7.90	1.59	1.52
1	g1	133	TRP	C-N	7.90	1.43	1.33
1	1C	188	THR	CA-C	-7.90	1.46	1.52
1	gr	60	GLY	CA-C	7.90	1.56	1.51
1	jm	142	VAL	CA-CB	7.90	1.63	1.54
1	kj	93	PRO	CA-C	7.90	1.62	1.52
1	l0	212	GLU	N-CA	7.90	1.56	1.46
1	2a	24	VAL	C-N	7.90	1.44	1.33
1	5W	124	ILE	CA-C	-7.90	1.46	1.53
1	7d	75	GLU	N-CA	-7.90	1.36	1.46
1	7E	127	GLY	CA-C	7.90	1.61	1.51
1	7J	99	PRO	CA-C	7.90	1.62	1.52
1	aL	162	ARG	CD-NE	7.90	1.57	1.46
1	97	12	HIS	ND1-CE1	7.90	1.40	1.32
1	c5	80	TRP	NE1-CE2	-7.90	1.28	1.37
1	iF	192	GLN	CA-CB	7.89	1.66	1.53
1	kM	79	GLU	N-CA	7.89	1.55	1.46
1	bM	38	PRO	CA-CB	7.89	1.65	1.53
1	d7	1	PRO	N-CD	7.89	1.58	1.47
1	kX	11	VAL	CA-CB	7.89	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	la	130	TYR	CA-CB	7.89	1.65	1.53
1	le	28	GLU	CA-CB	7.89	1.65	1.53
1	lQ	7	GLN	CA-CB	7.89	1.65	1.53
1	3A	120	HIS	ND1-CE1	7.89	1.40	1.32
1	4d	97	ARG	CA-C	7.89	1.63	1.53
1	5t	192	GLN	CA-CB	7.89	1.65	1.53
1	9E	58	THR	N-CA	7.89	1.55	1.46
1	cQ	33	SER	CA-C	7.89	1.62	1.53
1	eG	48	THR	CA-C	7.89	1.62	1.53
1	jI	16	SER	CA-CB	7.89	1.67	1.53
1	kd	87	HIS	CG-ND1	-7.89	1.29	1.38
1	kB	124	ILE	CA-CB	7.89	1.61	1.54
1	8l	189	LEU	CA-C	-7.89	1.42	1.52
1	bA	184	TRP	C-N	7.89	1.44	1.33
1	dR	109	SER	N-CA	-7.89	1.36	1.46
1	eP	191	VAL	N-CA	7.89	1.53	1.46
1	hv	65	ALA	N-CA	-7.89	1.36	1.46
1	4D	216	THR	CA-C	-7.89	1.43	1.52
1	7M	87	HIS	ND1-CE1	7.89	1.40	1.32
1	13	124	ILE	CA-CB	-7.89	1.45	1.53
1	cH	44	SER	N-CA	7.89	1.55	1.46
1	2z	132	ARG	CD-NE	7.89	1.57	1.46
1	6A	94	GLY	CA-C	7.89	1.63	1.51
1	8P	45	GLU	CA-C	7.89	1.62	1.52
1	dF	139	ASN	C-N	7.89	1.44	1.33
1	ex	37	ILE	CA-C	7.89	1.60	1.52
1	gd	89	GLY	N-CA	7.89	1.55	1.44
1	ik	61	GLY	N-CA	7.89	1.55	1.45
1	iR	117	TRP	NE1-CE2	-7.89	1.28	1.37
1	lu	142	VAL	CA-CB	-7.89	1.44	1.54
1	7c	204	ALA	N-CA	-7.89	1.36	1.46
1	7o	31	ALA	CA-C	7.89	1.62	1.53
1	ad	36	VAL	N-CA	-7.89	1.36	1.46
1	bz	65	ALA	N-CA	-7.89	1.35	1.46
1	cn	129	ILE	CA-CB	-7.89	1.46	1.54
1	cA	141	ILE	N-CA	-7.89	1.36	1.46
1	es	66	MET	CA-C	7.89	1.63	1.52
1	hr	84	HIS	ND1-CE1	7.88	1.40	1.32
1	hA	229	ARG	CD-NE	7.88	1.57	1.46
1	hU	152	ASP	N-CA	7.88	1.56	1.46
1	21	7	GLN	C-N	7.88	1.44	1.33
1	50	137	GLY	CA-C	-7.88	1.42	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6g	55	MET	N-CA	7.88	1.55	1.46
1	7q	162	ARG	CD-NE	7.88	1.57	1.46
1	98	132	ARG	C-N	7.88	1.44	1.34
1	bP	186	THR	N-CA	7.88	1.56	1.46
1	ea	134	ILE	C-N	7.88	1.42	1.34
1	fJ	37	ILE	CA-CB	7.88	1.58	1.54
1	1X	62	HIS	CE1-NE2	7.88	1.40	1.32
1	5e	134	ILE	C-O	-7.88	1.15	1.24
1	fo	131	LYS	CA-C	7.88	1.63	1.52
1	O	136	LEU	N-CA	-7.88	1.36	1.46
1	gT	125	PRO	CA-C	7.88	1.60	1.53
1	ic	37	ILE	CA-CB	7.88	1.59	1.53
1	jk	100	ARG	CA-C	-7.88	1.42	1.53
1	jQ	133	TRP	C-N	7.88	1.43	1.33
1	lm	129	ILE	CA-CB	-7.88	1.46	1.54
1	lA	188	THR	CA-C	-7.88	1.43	1.52
1	2a	115	ILE	CA-C	7.88	1.62	1.52
1	lN	198	CYS	C-N	7.88	1.44	1.33
1	2i	196	PRO	C-N	7.88	1.44	1.33
1	3O	86	VAL	CA-CB	7.88	1.64	1.54
1	5g	26	VAL	C-N	7.88	1.43	1.33
1	5E	105	ALA	CA-C	7.88	1.63	1.52
1	6n	120	HIS	ND1-CE1	7.88	1.40	1.32
1	6B	204	ALA	CA-C	7.88	1.63	1.52
1	bO	175	GLU	CA-CB	7.88	1.66	1.53
1	cx	96	MET	C-N	7.88	1.44	1.33
1	cS	45	GLU	C-N	7.88	1.42	1.33
1	do	31	ALA	CA-C	7.88	1.63	1.52
1	du	26	VAL	C-N	7.88	1.43	1.33
1	f9	12	HIS	ND1-CE1	7.88	1.40	1.32
1	fD	61	GLY	CA-C	-7.88	1.42	1.52
1	fR	73	ILE	N-CA	7.88	1.56	1.46
1	hB	62	HIS	CE1-NE2	7.88	1.40	1.32
1	aN	26	VAL	C-N	7.88	1.43	1.33
1	1A	125	PRO	CA-CB	-7.88	1.45	1.53
1	hj	124	ILE	CA-C	7.88	1.61	1.52
1	iT	228	ALA	CA-C	-7.88	1.43	1.53
1	kB	55	MET	N-CA	-7.88	1.36	1.46
1	80	12	HIS	CA-C	-7.88	1.43	1.52
1	dC	132	ARG	CD-NE	7.88	1.57	1.46
1	gi	96	MET	CA-CB	7.88	1.65	1.53
1	gt	191	VAL	C-N	7.88	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lo	20	LEU	CA-C	-7.88	1.42	1.52
1	29	120	HIS	N-CA	-7.88	1.36	1.45
1	2Q	13	GLN	N-CA	7.88	1.55	1.46
1	4K	48	THR	CA-C	-7.88	1.42	1.53
1	4R	90	PRO	C-N	7.88	1.43	1.33
1	7k	90	PRO	N-CD	7.88	1.58	1.47
1	8Q	161	PHE	CA-C	7.88	1.62	1.53
1	aB	146	SER	C-O	-7.88	1.15	1.24
1	b9	16	SER	C-N	-7.88	1.24	1.34
1	cd	143	ARG	N-CA	-7.88	1.36	1.46
1	eU	165	VAL	CA-CB	7.88	1.64	1.54
1	h7	81	ASP	N-CA	-7.88	1.36	1.46
1	kK	189	LEU	CA-CB	7.88	1.65	1.53
1	g2	99	PRO	C-N	7.88	1.45	1.33
1	hx	228	ALA	CA-C	7.87	1.62	1.52
1	hF	5	ASN	CA-C	7.87	1.62	1.52
1	kB	50	GLN	CA-C	7.87	1.63	1.52
1	8b	11	VAL	CA-C	-7.87	1.42	1.52
1	9m	60	GLY	C-N	7.87	1.40	1.33
1	9T	48	THR	N-CA	7.87	1.57	1.45
1	aq	52	LEU	N-CA	7.87	1.55	1.46
1	F	87	HIS	ND1-CE1	7.87	1.40	1.32
1	il	132	ARG	CD-NE	7.87	1.57	1.46
1	4P	12	HIS	CE1-NE2	7.87	1.40	1.32
1	7w	112	GLN	CA-C	-7.87	1.42	1.52
1	c6	87	HIS	ND1-CE1	7.87	1.40	1.32
1	dx	47	ALA	C-N	7.87	1.45	1.33
1	ez	124	ILE	CA-C	7.87	1.60	1.52
1	eK	213	GLU	CA-CB	7.87	1.66	1.53
1	eL	41	SER	CA-C	-7.87	1.42	1.52
1	f4	74	ASN	CA-CB	7.87	1.65	1.53
1	fy	202	LEU	N-CA	-7.87	1.36	1.46
1	fZ	193	ASN	CA-CB	7.87	1.64	1.53
1	T	153	ILE	C-N	7.87	1.43	1.33
1	hq	136	LEU	CA-C	7.87	1.63	1.52
1	iz	133	TRP	C-N	7.87	1.43	1.33
1	3d	23	TRP	N-CA	7.87	1.55	1.46
1	66	20	LEU	CA-CB	7.87	1.66	1.53
1	8m	222	GLY	N-CA	7.87	1.56	1.45
1	bC	123	PRO	CA-C	-7.87	1.43	1.52
1	dO	69	LEU	CA-CB	7.87	1.65	1.53
1	h0	125	PRO	C-N	7.87	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hz	74	ASN	C-N	7.87	1.43	1.33
1	il	151	LEU	N-CA	-7.87	1.36	1.46
1	kA	37	ILE	CA-CB	7.87	1.58	1.54
1	kM	2	ILE	C-N	7.87	1.43	1.33
1	4W	35	GLU	C-N	7.87	1.43	1.33
1	65	85	PRO	N-CA	-7.87	1.37	1.47
1	7U	224	PRO	N-CA	-7.87	1.37	1.47
1	7Z	18	ARG	N-CA	7.87	1.56	1.46
1	aW	30	LYS	CA-C	-7.87	1.42	1.52
1	bD	84	HIS	CD2-NE2	7.87	1.46	1.37
1	cI	120	HIS	ND1-CE1	7.87	1.40	1.32
1	C	188	THR	C-N	7.87	1.43	1.33
1	H	229	ARG	CD-NE	7.87	1.57	1.46
1	jg	39	MET	C-N	-7.87	1.23	1.33
1	5B	120	HIS	ND1-CE1	7.87	1.40	1.32
1	7g	12	HIS	ND1-CE1	7.87	1.40	1.32
1	1b	158	LYS	CA-CB	7.87	1.64	1.53
1	dT	225	GLY	N-CA	7.87	1.54	1.45
1	gx	205	LEU	CA-CB	7.87	1.66	1.53
1	hp	79	GLU	CA-C	7.87	1.63	1.52
1	iK	154	ARG	CD-NE	7.87	1.57	1.46
1	2H	29	GLU	CA-C	7.87	1.62	1.52
1	2K	23	TRP	CA-CB	7.87	1.65	1.53
1	4G	124	ILE	CA-C	-7.87	1.46	1.53
1	6O	182	LYS	CA-C	7.87	1.62	1.52
1	7q	33	SER	C-N	7.87	1.41	1.34
1	99	120	HIS	CG-CD2	7.87	1.44	1.35
1	b2	130	TYR	CA-CB	7.87	1.65	1.53
1	iJ	112	GLN	CA-C	7.86	1.63	1.52
1	jp	117	TRP	NE1-CE2	-7.86	1.28	1.37
1	lA	165	VAL	N-CA	-7.86	1.37	1.46
1	2W	120	HIS	ND1-CE1	7.86	1.40	1.32
1	47	120	HIS	ND1-CE1	7.86	1.40	1.32
1	8h	164	TYR	CA-C	7.86	1.63	1.52
1	9H	98	GLU	C-N	7.86	1.42	1.33
1	bP	228	ALA	C-N	7.86	1.43	1.33
1	l9	175	GLU	CA-C	7.86	1.62	1.52
1	28	44	SER	N-CA	7.86	1.56	1.46
1	aj	147	PRO	N-CD	-7.86	1.36	1.47
1	1g	63	GLN	CA-CB	7.86	1.65	1.53
1	iP	20	LEU	C-N	7.86	1.44	1.33
1	jA	16	SER	CA-C	7.86	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3N	184	TRP	CA-C	7.86	1.62	1.52
1	5m	190	LEU	N-CA	7.86	1.56	1.46
1	75	168	PHE	C-N	7.86	1.45	1.33
1	b5	148	THR	CA-C	-7.86	1.43	1.52
1	cW	26	VAL	CA-CB	-7.86	1.45	1.54
1	2Z	172	LEU	CA-CB	7.86	1.65	1.53
1	4v	173	ARG	CA-C	7.86	1.62	1.52
1	5J	104	ILE	CA-C	-7.86	1.42	1.52
1	ao	127	GLY	CA-C	-7.86	1.43	1.52
1	dQ	19	THR	CA-CB	7.86	1.65	1.53
1	gl	92	GLU	CA-C	7.86	1.62	1.52
1	jf	87	HIS	CG-CD2	7.86	1.44	1.35
1	2n	205	LEU	CA-CB	7.86	1.65	1.53
1	4B	175	GLU	CA-C	7.86	1.62	1.52
1	aq	112	GLN	CA-CB	7.86	1.65	1.53
1	1f	196	PRO	CA-CB	7.86	1.65	1.53
1	dg	113	GLU	CA-C	7.86	1.62	1.52
1	fU	131	LYS	N-CA	-7.86	1.36	1.46
1	h7	128	GLU	C-N	7.86	1.43	1.33
1	i9	135	ILE	CA-C	-7.86	1.42	1.52
1	ic	195	ASN	CA-CB	7.86	1.64	1.53
1	jm	97	ARG	CZ-NH1	-7.86	1.21	1.32
1	la	80	TRP	N-CA	7.86	1.55	1.46
1	lo	148	THR	CA-C	7.86	1.62	1.52
1	lG	87	HIS	CA-CB	7.86	1.64	1.53
1	3L	37	ILE	CA-C	7.86	1.59	1.52
1	42	77	ALA	C-N	7.86	1.43	1.33
1	5p	147	PRO	C-N	7.86	1.44	1.33
1	7X	12	HIS	ND1-CE1	7.86	1.40	1.32
1	8L	120	HIS	ND1-CE1	7.86	1.40	1.32
1	fi	98	GLU	C-N	-7.86	1.25	1.33
1	fz	191	VAL	CA-CB	-7.86	1.45	1.54
1	2J	47	ALA	CA-C	-7.85	1.42	1.52
1	2Y	77	ALA	CA-C	7.85	1.63	1.52
1	aa	143	ARG	CA-CB	7.85	1.65	1.53
1	bs	24	VAL	N-CA	7.85	1.56	1.46
1	fE	28	GLU	CA-C	-7.85	1.46	1.52
1	gL	101	GLY	N-CA	7.85	1.56	1.45
1	ji	162	ARG	CA-CB	7.85	1.63	1.53
1	jn	199	LYS	CA-C	7.85	1.63	1.52
1	9n	142	VAL	N-CA	7.85	1.55	1.46
1	1c	33	SER	N-CA	-7.85	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fQ	144	MET	CA-CB	7.85	1.65	1.53
1	g7	85	PRO	N-CD	-7.85	1.36	1.47
1	bn	134	ILE	CA-CB	7.85	1.63	1.54
1	ds	175	GLU	CA-CB	7.85	1.65	1.53
1	hL	10	MET	CA-C	7.85	1.62	1.52
1	k8	108	THR	CA-C	-7.85	1.43	1.53
1	3C	76	GLU	C-N	7.85	1.43	1.33
1	5m	37	ILE	CA-C	7.85	1.59	1.52
1	60	169	TYR	CA-C	-7.85	1.42	1.52
1	6I	43	LEU	N-CA	-7.85	1.36	1.46
1	bU	217	ALA	N-CA	-7.85	1.36	1.46
1	eh	166	ASP	CA-C	-7.85	1.42	1.52
1	f2	57	ASN	CA-CB	7.85	1.65	1.53
1	c	204	ALA	CA-C	7.85	1.62	1.52
1	j3	14	ALA	C-N	7.85	1.43	1.33
1	jn	124	ILE	N-CA	-7.85	1.39	1.46
1	jX	113	GLU	N-CA	7.85	1.55	1.46
1	kH	72	THR	CA-C	7.85	1.62	1.52
1	lB	39	MET	CA-C	7.85	1.62	1.52
1	lN	175	GLU	N-CA	7.85	1.55	1.46
1	d3	175	GLU	CA-CB	7.85	1.64	1.53
1	1q	36	VAL	CA-CB	7.85	1.64	1.54
1	R	83	LEU	CA-C	7.85	1.63	1.52
1	25	87	HIS	CA-C	-7.85	1.43	1.52
1	2w	12	HIS	CA-CB	7.85	1.64	1.53
1	fI	47	ALA	N-CA	-7.85	1.36	1.46
1	1V	143	ARG	CA-C	7.84	1.62	1.52
1	2x	123	PRO	N-CA	-7.84	1.41	1.47
1	2F	132	ARG	N-CA	-7.84	1.36	1.46
1	64	163	ASP	CA-CB	7.84	1.65	1.53
1	6s	163	ASP	CA-C	7.84	1.62	1.52
1	77	154	ARG	CA-C	-7.84	1.43	1.52
1	cc	76	GLU	CA-CB	7.84	1.65	1.53
1	ee	62	HIS	CE1-NE2	7.84	1.40	1.32
1	gU	65	ALA	C-N	7.84	1.43	1.33
1	hK	188	THR	CA-C	7.84	1.59	1.52
1	l9	124	ILE	CA-C	-7.84	1.46	1.53
1	lP	173	ARG	CA-C	-7.84	1.42	1.52
1	b4	164	TYR	C-N	7.84	1.43	1.33
1	1w	80	TRP	C-O	-7.84	1.15	1.24
1	hx	16	SER	CA-C	7.84	1.63	1.53
1	i3	200	THR	N-CA	7.84	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i5	92	GLU	CA-C	-7.84	1.45	1.53
1	iZ	90	PRO	C-N	-7.84	1.26	1.33
1	jI	170	LYS	CA-C	7.84	1.63	1.52
1	kH	37	ILE	CA-CB	7.84	1.59	1.53
1	ld	167	ARG	C-N	7.84	1.43	1.33
1	e4	141	ILE	CA-C	-7.84	1.43	1.52
1	1u	2	ILE	C-N	7.84	1.43	1.33
1	jh	23	TRP	NE1-CE2	-7.84	1.28	1.37
1	kK	98	GLU	CA-C	7.84	1.61	1.52
1	kL	124	ILE	CA-C	7.84	1.59	1.53
1	3w	16	SER	C-N	7.84	1.44	1.33
1	52	146	SER	C-N	7.84	1.40	1.33
1	5J	83	LEU	C-N	7.84	1.40	1.33
1	6Q	40	PHE	CA-C	7.84	1.62	1.52
1	8y	126	VAL	C-N	7.84	1.42	1.33
1	c2	128	GLU	CA-C	7.84	1.63	1.52
1	d6	206	GLY	CA-C	7.84	1.63	1.51
1	hE	190	LEU	CA-CB	7.84	1.65	1.53
1	3M	156	GLY	N-CA	7.84	1.55	1.44
1	5q	171	THR	N-CA	7.84	1.55	1.46
1	8s	132	ARG	CA-CB	7.84	1.66	1.53
1	9L	29	GLU	CA-C	7.84	1.61	1.52
1	bw	139	ASN	CA-C	7.84	1.62	1.52
1	d5	5	ASN	CA-CB	7.84	1.65	1.53
1	f2	127	GLY	CA-C	-7.84	1.40	1.51
1	ff	195	ASN	CA-C	7.84	1.61	1.53
1	ho	135	ILE	N-CA	7.84	1.55	1.46
1	j0	42	ALA	C-N	7.84	1.44	1.33
1	jJ	176	GLN	CA-C	-7.84	1.42	1.52
1	3L	129	ILE	C-N	7.84	1.43	1.33
1	42	153	ILE	CA-CB	-7.84	1.44	1.53
1	4R	191	VAL	CA-CB	-7.84	1.43	1.54
1	59	162	ARG	CD-NE	7.84	1.57	1.46
1	6Y	48	THR	CA-C	7.84	1.61	1.52
1	7F	197	ASP	CA-C	-7.84	1.42	1.52
1	84	208	ALA	C-N	7.84	1.43	1.33
1	bx	120	HIS	CD2-NE2	7.84	1.46	1.37
1	5	33	SER	C-N	-7.84	1.27	1.33
1	jN	195	ASN	CA-C	7.83	1.62	1.53
1	lf	190	LEU	CA-CB	7.83	1.65	1.53
1	3v	37	ILE	CA-C	7.83	1.59	1.52
1	61	82	ARG	C-N	7.83	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7K	68	MET	C-N	7.83	1.43	1.33
1	13	86	VAL	CA-C	7.83	1.61	1.52
1	eK	191	VAL	C-N	7.83	1.44	1.34
1	jj	56	LEU	CA-CB	7.83	1.66	1.53
1	22	152	ASP	C-N	7.83	1.41	1.33
1	kX	188	THR	CA-C	-7.83	1.46	1.52
1	ld	216	THR	C-N	7.83	1.43	1.33
1	2k	156	GLY	C-N	7.83	1.44	1.34
1	7A	5	ASN	N-CA	-7.83	1.37	1.46
1	df	228	ALA	CA-C	7.83	1.62	1.52
1	1o	84	HIS	ND1-CE1	7.83	1.40	1.32
1	em	39	MET	CA-C	-7.83	1.42	1.52
1	gb	164	TYR	C-N	7.83	1.43	1.33
1	jn	229	ARG	C-N	7.83	1.42	1.33
1	2T	19	THR	N-CA	7.83	1.55	1.46
1	3L	62	HIS	CA-CB	7.83	1.65	1.53
1	3V	181	VAL	CA-C	-7.83	1.43	1.52
1	44	172	LEU	CB-CG	7.83	1.69	1.53
1	52	45	GLU	CA-C	7.83	1.63	1.52
1	5C	146	SER	C-N	7.83	1.40	1.33
1	5J	168	PHE	CA-C	7.83	1.62	1.52
1	7h	219	GLN	CA-CB	7.83	1.64	1.53
1	81	120	HIS	ND1-CE1	7.83	1.40	1.32
1	88	207	PRO	CA-CB	7.83	1.64	1.53
1	8z	88	ALA	N-CA	-7.83	1.36	1.46
1	9V	37	ILE	CA-C	7.83	1.59	1.52
1	ci	109	SER	CA-CB	7.83	1.65	1.53
1	d6	130	TYR	C-N	7.83	1.43	1.33
1	df	206	GLY	C-N	7.83	1.40	1.33
1	eg	133	TRP	NE1-CE2	-7.83	1.28	1.37
1	1w	111	LEU	C-N	7.83	1.43	1.33
1	hT	176	GLN	CA-CB	7.83	1.66	1.53
1	im	81	ASP	CA-C	7.83	1.62	1.52
1	39	173	ARG	CA-CB	7.83	1.66	1.53
1	9V	178	SER	CA-C	7.83	1.63	1.52
1	aq	68	MET	CA-C	-7.83	1.42	1.52
1	b8	158	LYS	N-CA	7.83	1.55	1.46
1	1s	23	TRP	CA-CB	7.83	1.65	1.53
1	iw	140	LYS	CA-C	7.83	1.62	1.52
1	jr	87	HIS	C-N	7.83	1.44	1.33
1	kx	63	GLN	CA-CB	7.83	1.66	1.53
1	kG	84	HIS	ND1-CE1	7.83	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lN	188	THR	N-CA	7.83	1.56	1.46
1	2t	33	SER	N-CA	7.83	1.51	1.46
1	5B	108	THR	CA-C	7.83	1.62	1.52
1	8z	143	ARG	C-N	7.83	1.45	1.33
1	9D	166	ASP	CA-CB	7.83	1.65	1.53
1	aP	11	VAL	CA-C	-7.83	1.43	1.52
1	do	174	ALA	N-CA	-7.83	1.36	1.46
1	dN	133	TRP	CD2-CE3	7.83	1.52	1.40
1	eL	73	ILE	N-CA	-7.83	1.37	1.46
1	fY	97	ARG	CA-CB	7.83	1.65	1.53
1	jx	137	GLY	CA-C	-7.83	1.43	1.52
1	dK	160	PRO	CA-CB	-7.83	1.43	1.53
1	fN	181	VAL	C-O	-7.83	1.14	1.24
1	hS	226	HIS	CD2-NE2	7.83	1.46	1.37
1	l5	169	TYR	C-N	7.83	1.44	1.33
1	lA	87	HIS	CB-CG	-7.83	1.39	1.50
1	83	78	ALA	C-N	7.83	1.43	1.33
1	83	212	GLU	CA-CB	7.83	1.65	1.53
1	aP	155	GLN	CA-C	-7.83	1.42	1.52
1	gx	230	VAL	CA-CB	7.82	1.61	1.54
1	iG	61	GLY	CA-C	7.82	1.62	1.51
1	jo	11	VAL	CA-C	7.82	1.61	1.52
1	jA	137	GLY	CA-C	-7.82	1.43	1.51
1	jF	7	GLN	N-CA	-7.82	1.37	1.46
1	l2	164	TYR	CA-CB	7.82	1.65	1.53
1	6p	178	SER	N-CA	7.82	1.56	1.46
1	7O	12	HIS	ND1-CE1	7.82	1.40	1.32
1	7S	21	ASN	CA-C	7.82	1.62	1.52
1	8s	91	ILE	N-CA	7.82	1.55	1.46
1	8T	203	LYS	CA-C	7.82	1.63	1.52
1	9Y	124	ILE	CA-C	7.82	1.59	1.53
1	ex	58	THR	CA-CB	7.82	1.65	1.53
1	fD	202	LEU	CA-C	-7.82	1.42	1.52
1	fY	93	PRO	CA-C	-7.82	1.41	1.52
1	ge	141	ILE	N-CA	7.82	1.55	1.46
1	lz	102	SER	CA-C	-7.82	1.42	1.52
1	7V	52	LEU	C-N	7.82	1.44	1.33
1	br	115	ILE	C-N	7.82	1.45	1.33
1	dM	74	ASN	N-CA	-7.82	1.36	1.46
1	kL	108	THR	CA-CB	-7.82	1.43	1.54
1	6k	22	ALA	C-N	7.82	1.43	1.33
1	6R	69	LEU	N-CA	-7.82	1.36	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	213	GLU	C-N	7.82	1.44	1.33
1	c2	88	ALA	CA-C	-7.82	1.42	1.52
1	fo	217	ALA	N-CA	-7.82	1.37	1.47
1	fW	12	HIS	ND1-CE1	7.82	1.40	1.32
1	gA	7	GLN	CA-C	-7.82	1.42	1.52
1	hf	216	THR	CA-CB	7.82	1.65	1.53
1	iS	87	HIS	ND1-CE1	7.82	1.40	1.32
1	lH	167	ARG	CA-C	-7.82	1.43	1.52
1	2z	217	ALA	CA-CB	7.82	1.66	1.53
1	3D	164	TYR	CA-C	7.82	1.62	1.52
1	cU	58	THR	CA-C	7.82	1.63	1.52
1	gK	167	ARG	C-N	7.82	1.43	1.33
1	hm	83	LEU	CA-CB	7.82	1.67	1.53
1	hI	61	GLY	CA-C	-7.82	1.44	1.51
1	jl	106	GLY	N-CA	7.82	1.57	1.45
1	3w	102	SER	N-CA	-7.82	1.36	1.46
1	3H	84	HIS	ND1-CE1	7.82	1.40	1.32
1	3O	98	GLU	CA-C	-7.82	1.44	1.52
1	4P	44	SER	CA-CB	7.82	1.64	1.53
1	7F	181	VAL	CA-CB	-7.82	1.45	1.54
1	7K	213	GLU	C-N	7.82	1.44	1.34
1	bx	73	ILE	CA-CB	-7.82	1.45	1.54
1	d2	207	PRO	N-CA	-7.82	1.36	1.47
1	df	160	PRO	CA-CB	7.82	1.63	1.53
1	g4	169	TYR	CA-C	-7.82	1.42	1.52
1	kM	3	VAL	C-N	7.82	1.44	1.33
1	lg	199	LYS	CA-C	-7.82	1.42	1.52
1	lL	30	LYS	CA-C	7.82	1.62	1.52
1	49	220	GLY	N-CA	-7.82	1.39	1.45
1	54	126	VAL	CA-C	-7.82	1.43	1.52
1	5Y	226	HIS	CD2-NE2	7.82	1.46	1.37
1	8O	221	VAL	CA-CB	7.82	1.62	1.53
1	e1	162	ARG	CD-NE	7.82	1.57	1.46
1	ev	164	TYR	C-N	7.82	1.43	1.34
1	lG	218	CYS	CA-C	-7.81	1.42	1.52
1	7R	188	THR	CA-C	-7.81	1.47	1.52
1	9e	151	LEU	C-N	7.81	1.44	1.33
1	9z	174	ALA	N-CA	-7.81	1.36	1.46
1	bH	71	GLU	CA-C	7.81	1.62	1.52
1	6	160	PRO	CA-CB	-7.81	1.42	1.53
1	gY	82	ARG	CA-CB	7.81	1.66	1.53
1	hc	225	GLY	CA-C	-7.81	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hg	33	SER	N-CA	7.81	1.53	1.45
1	2m	37	ILE	CA-CB	-7.81	1.48	1.53
1	4D	13	GLN	CA-C	-7.81	1.43	1.52
1	9z	87	HIS	ND1-CE1	7.81	1.40	1.32
1	df	79	GLU	N-CA	7.81	1.55	1.46
1	1O	216	THR	N-CA	-7.81	1.35	1.46
1	3S	195	ASN	CA-C	-7.81	1.44	1.53
1	4v	73	ILE	CA-C	7.81	1.62	1.52
1	5T	7	GLN	C-N	7.81	1.43	1.33
1	72	62	HIS	CE1-NE2	7.81	1.40	1.32
1	jJ	36	VAL	C-N	7.81	1.42	1.33
1	kp	207	PRO	CA-C	-7.81	1.45	1.52
1	7l	134	ILE	C-N	7.81	1.43	1.33
1	bk	190	LEU	C-N	7.81	1.43	1.34
1	cw	63	GLN	N-CA	-7.81	1.36	1.46
1	eb	194	ALA	CA-C	7.81	1.63	1.52
1	22	143	ARG	CD-NE	7.81	1.57	1.46
1	2M	82	ARG	CD-NE	7.81	1.57	1.46
1	5d	184	TRP	C-N	7.81	1.44	1.34
1	5C	50	GLN	N-CA	-7.81	1.36	1.46
1	7J	205	LEU	CA-CB	7.81	1.63	1.53
1	bO	184	TRP	CA-CB	7.81	1.66	1.53
1	db	114	GLN	C-N	7.81	1.43	1.33
1	eO	129	ILE	C-N	7.81	1.44	1.33
1	g7	9	GLN	CA-C	-7.81	1.43	1.52
1	lc	7	GLN	N-CA	7.81	1.55	1.46
1	aC	121	ASN	CA-C	7.81	1.59	1.52
1	15	196	PRO	C-N	7.81	1.44	1.33
1	da	136	LEU	CA-C	-7.81	1.42	1.52
1	hc	126	VAL	N-CA	7.80	1.55	1.46
1	ji	166	ASP	N-CA	-7.80	1.37	1.46
1	58	120	HIS	CB-CG	-7.80	1.39	1.50
1	6u	2	ILE	CA-C	7.80	1.61	1.52
1	av	181	VAL	C-N	7.80	1.44	1.33
1	gr	84	HIS	ND1-CE1	7.80	1.40	1.32
1	iG	226	HIS	CA-C	7.80	1.63	1.53
1	4i	193	ASN	C-N	7.80	1.43	1.33
1	6X	107	THR	CA-C	7.80	1.63	1.52
1	75	93	PRO	CA-C	7.80	1.61	1.52
1	7B	91	ILE	CA-C	7.80	1.62	1.52
1	9J	19	THR	CA-CB	-7.80	1.41	1.53
1	aO	62	HIS	CE1-NE2	7.80	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bx	125	PRO	CA-C	7.80	1.59	1.53
1	bD	124	ILE	CA-C	-7.80	1.44	1.52
1	fa	14	ALA	CA-CB	7.80	1.63	1.53
1	ls	156	GLY	N-CA	7.80	1.55	1.44
1	3x	179	GLN	CA-C	-7.80	1.43	1.52
1	8d	185	MET	C-O	-7.80	1.15	1.24
1	aA	65	ALA	C-N	7.80	1.44	1.33
1	co	119	THR	C-N	7.80	1.44	1.33
1	dz	100	ARG	CD-NE	7.80	1.57	1.46
1	ez	154	ARG	CA-C	-7.80	1.43	1.52
1	0	191	VAL	CA-C	-7.80	1.43	1.52
1	2	95	GLN	CA-C	7.80	1.62	1.52
1	K	94	GLY	C-N	7.80	1.44	1.33
1	hL	169	TYR	CA-C	7.80	1.62	1.52
1	i3	121	ASN	CA-CB	7.80	1.63	1.53
1	3l	78	ALA	CA-C	7.80	1.63	1.52
1	4K	82	ARG	CA-C	-7.80	1.43	1.52
1	52	201	ILE	N-CA	7.80	1.55	1.46
1	5l	40	PHE	CA-CB	7.80	1.65	1.53
1	63	100	ARG	CD-NE	7.80	1.57	1.46
1	7X	174	ALA	CA-CB	7.80	1.66	1.53
1	9f	220	GLY	CA-C	-7.80	1.40	1.51
1	9N	154	ARG	CA-CB	7.80	1.66	1.53
1	aA	214	MET	CA-C	7.80	1.62	1.52
1	by	210	THR	C-N	7.80	1.43	1.33
1	dk	169	TYR	N-CA	7.80	1.55	1.46
1	i0	166	ASP	CA-C	7.80	1.63	1.52
1	ig	58	THR	N-CA	7.80	1.55	1.46
1	iL	117	TRP	NE1-CE2	-7.80	1.28	1.37
1	l9	184	TRP	CA-C	7.80	1.62	1.52
1	5C	12	HIS	ND1-CE1	7.80	1.40	1.32
1	6G	123	PRO	CA-CB	7.80	1.63	1.53
1	eA	87	HIS	CD2-NE2	7.80	1.46	1.37
1	eP	5	ASN	C-N	-7.80	1.23	1.33
1	g4	175	GLU	CA-CB	7.80	1.64	1.53
1	lb	159	GLU	CA-C	7.80	1.61	1.52
1	2U	133	TRP	CA-C	7.80	1.63	1.52
1	4n	12	HIS	ND1-CE1	7.80	1.40	1.32
1	7K	191	VAL	CA-CB	7.80	1.64	1.54
1	9s	16	SER	C-N	7.80	1.43	1.33
1	a1	36	VAL	CA-C	7.80	1.62	1.52
1	ai	121	ASN	CA-C	7.80	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bM	133	TRP	CA-C	7.80	1.62	1.52
1	eK	36	VAL	CA-CB	-7.80	1.44	1.54
1	1J	76	GLU	CA-CB	7.79	1.65	1.53
1	iU	62	HIS	CA-C	-7.79	1.43	1.53
1	jw	220	GLY	C-N	7.79	1.43	1.33
1	lR	195	ASN	CA-C	7.79	1.62	1.53
1	4S	2	ILE	CA-C	7.79	1.61	1.52
1	7C	23	TRP	NE1-CE2	-7.79	1.28	1.37
1	87	16	SER	C-N	-7.79	1.22	1.33
1	8X	206	GLY	C-N	7.79	1.40	1.33
1	dq	125	PRO	N-CA	7.79	1.57	1.47
1	1v	187	GLU	CA-C	-7.79	1.47	1.52
1	jG	182	LYS	N-CA	7.79	1.55	1.46
1	4z	10	MET	CA-CB	7.79	1.62	1.53
1	4B	154	ARG	CA-C	-7.79	1.43	1.52
1	6P	126	VAL	N-CA	7.79	1.55	1.46
1	6Q	84	HIS	ND1-CE1	7.79	1.40	1.32
1	7q	202	LEU	CA-C	7.79	1.62	1.52
1	ay	173	ARG	N-CA	7.79	1.56	1.46
1	bj	29	GLU	CA-CB	7.79	1.65	1.54
1	1v	73	ILE	N-CA	7.79	1.55	1.46
1	fj	49	PRO	N-CD	-7.79	1.36	1.47
1	R	187	GLU	CA-C	7.79	1.62	1.52
1	hk	179	GLN	CA-CB	7.79	1.66	1.53
1	jh	141	ILE	N-CA	7.79	1.55	1.46
1	3c	137	GLY	C-N	7.79	1.44	1.33
1	54	132	ARG	N-CA	-7.79	1.37	1.46
1	5Y	62	HIS	CE1-NE2	7.79	1.40	1.32
1	6A	89	GLY	C-N	7.79	1.42	1.33
1	6F	185	MET	CA-C	7.79	1.62	1.52
1	7i	74	ASN	N-CA	-7.79	1.36	1.46
1	h3	13	GLN	N-CA	-7.79	1.36	1.46
1	in	22	ALA	CA-C	-7.79	1.42	1.52
1	j8	121	ASN	CA-C	7.79	1.61	1.52
1	4d	62	HIS	CE1-NE2	7.79	1.40	1.32
1	99	106	GLY	C-N	7.79	1.44	1.33
1	eK	6	LEU	CA-CB	7.79	1.65	1.53
1	f6	175	GLU	CA-C	7.79	1.63	1.52
1	gX	190	LEU	CA-C	7.79	1.60	1.53
1	hz	57	ASN	N-CA	-7.79	1.35	1.46
1	1T	12	HIS	ND1-CE1	7.79	1.40	1.32
1	jy	226	HIS	ND1-CE1	7.79	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	25	195	ASN	CA-CB	7.79	1.64	1.53
1	7g	100	ARG	CD-NE	7.79	1.57	1.46
1	9v	112	GLN	C-N	7.79	1.44	1.33
1	9E	195	ASN	CA-C	7.79	1.61	1.53
1	cR	167	ARG	CD-NE	7.79	1.57	1.46
1	du	19	THR	CA-C	-7.79	1.42	1.52
1	dO	5	ASN	CA-C	-7.79	1.43	1.52
1	e0	213	GLU	C-N	7.79	1.44	1.33
1	eg	226	HIS	CD2-NE2	7.79	1.46	1.37
1	i3	143	ARG	CZ-NH2	-7.79	1.23	1.33
1	3e	184	TRP	NE1-CE2	-7.79	1.28	1.37
1	4g	68	MET	CA-CB	7.79	1.65	1.53
1	4K	37	ILE	CA-C	7.79	1.59	1.52
1	6J	82	ARG	CA-CB	7.79	1.65	1.53
1	7j	223	GLY	C-N	7.79	1.41	1.34
1	9s	26	VAL	CA-CB	-7.79	1.45	1.54
1	cC	160	PRO	C-N	7.79	1.43	1.33
1	cY	120	HIS	CB-CG	7.79	1.61	1.50
1	fP	226	HIS	ND1-CE1	7.79	1.40	1.32
1	G	125	PRO	CA-C	-7.79	1.45	1.53
1	j1	67	GLN	CA-CB	7.78	1.65	1.53
1	k3	154	ARG	CD-NE	7.78	1.57	1.46
1	lk	216	THR	N-CA	7.78	1.56	1.46
1	3k	84	HIS	N-CA	-7.78	1.38	1.46
1	10	178	SER	CA-CB	7.78	1.65	1.53
1	ab	62	HIS	CA-C	-7.78	1.46	1.53
1	aJ	229	ARG	CA-C	7.78	1.62	1.52
1	aY	123	PRO	C-N	-7.78	1.26	1.33
1	bV	113	GLU	N-CA	-7.78	1.37	1.46
1	fA	37	ILE	CA-CB	7.78	1.58	1.54
1	iD	206	GLY	C-N	7.78	1.42	1.34
1	lN	152	ASP	CA-CB	7.78	1.63	1.53
1	6V	175	GLU	CA-C	-7.78	1.42	1.52
1	fr	213	GLU	CA-CB	7.78	1.65	1.53
1	W	103	ASP	CA-C	-7.78	1.42	1.52
1	6	159	GLU	CA-C	7.78	1.61	1.52
1	hJ	28	GLU	CA-C	7.78	1.62	1.52
1	i0	125	PRO	CA-C	-7.78	1.45	1.53
1	j3	228	ALA	CA-C	7.78	1.62	1.52
1	3H	133	TRP	CA-CB	7.78	1.65	1.53
1	eu	139	ASN	C-N	7.78	1.43	1.33
1	fM	161	PHE	CA-C	7.78	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kv	81	ASP	CA-C	7.78	1.63	1.52
1	lk	153	ILE	CA-C	7.78	1.61	1.52
1	fW	60	GLY	C-N	7.78	1.42	1.33
1	iL	147	PRO	CA-CB	7.78	1.64	1.53
1	jo	3	VAL	CA-C	-7.78	1.43	1.52
1	lz	93	PRO	CA-C	-7.78	1.41	1.52
1	32	154	ARG	CD-NE	7.78	1.57	1.46
1	3D	62	HIS	ND1-CE1	7.78	1.40	1.32
1	4J	11	VAL	CA-CB	-7.78	1.45	1.54
1	8P	100	ARG	CD-NE	7.78	1.57	1.46
1	bS	186	THR	C-N	7.78	1.44	1.33
1	ff	145	TYR	N-CA	7.78	1.55	1.46
1	fp	126	VAL	CA-CB	7.78	1.65	1.54
1	fC	120	HIS	ND1-CE1	7.78	1.40	1.32
1	hD	212	GLU	C-N	7.78	1.43	1.33
1	lH	214	MET	N-CA	7.78	1.55	1.46
1	5g	123	PRO	C-N	7.78	1.41	1.33
1	79	85	PRO	C-N	7.78	1.43	1.33
1	7j	124	ILE	N-CA	-7.78	1.40	1.46
1	8z	226	HIS	CA-C	7.78	1.62	1.52
1	g7	173	ARG	CD-NE	7.78	1.57	1.46
1	3K	230	VAL	CA-CB	-7.77	1.46	1.54
1	4r	184	TRP	CA-C	7.77	1.62	1.52
1	71	49	PRO	CA-C	-7.77	1.41	1.52
1	8I	229	ARG	C-N	7.77	1.43	1.33
1	15	87	HIS	CA-C	-7.77	1.42	1.52
1	1d	60	GLY	CA-C	-7.77	1.41	1.51
1	gy	168	PHE	N-CA	-7.77	1.37	1.46
1	hM	143	ARG	C-N	7.77	1.43	1.33
1	kP	197	ASP	C-N	7.77	1.44	1.33
1	Z	120	HIS	CD2-NE2	7.77	1.46	1.37
1	2a	104	ILE	CA-CB	-7.77	1.45	1.54
1	gj	68	MET	N-CA	-7.77	1.36	1.46
1	4A	59	VAL	CA-C	7.77	1.62	1.52
1	5W	181	VAL	C-N	7.77	1.43	1.33
1	f	2	ILE	CA-C	-7.77	1.43	1.52
1	hL	80	TRP	NE1-CE2	-7.77	1.28	1.37
1	iu	7	GLN	CA-CB	7.77	1.63	1.53
1	lG	84	HIS	ND1-CE1	7.77	1.40	1.32
1	5w	195	ASN	CA-C	7.77	1.61	1.53
1	6i	77	ALA	N-CA	7.77	1.55	1.46
1	9E	201	ILE	CA-CB	7.77	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	13	160	PRO	CA-C	-7.77	1.42	1.52
1	1V	213	GLU	CA-CB	7.77	1.65	1.53
1	ko	153	ILE	CA-CB	7.77	1.62	1.53
1	29	123	PRO	C-N	7.77	1.40	1.33
1	2B	10	MET	CA-CB	7.77	1.65	1.53
1	4O	43	LEU	CA-C	7.77	1.62	1.52
1	19	76	GLU	N-CA	7.77	1.55	1.46
1	cf	51	ASP	C-N	7.77	1.43	1.33
1	cl	165	VAL	CA-CB	7.77	1.63	1.54
1	f9	133	TRP	CA-C	-7.77	1.43	1.52
1	8	159	GLU	C-N	7.77	1.43	1.33
1	gr	126	VAL	CA-C	7.76	1.62	1.52
1	im	229	ARG	CD-NE	7.76	1.57	1.46
1	it	103	ASP	CA-C	7.76	1.62	1.52
1	3W	206	GLY	N-CA	7.76	1.55	1.44
1	45	47	ALA	CA-C	7.76	1.62	1.52
1	4y	72	THR	CA-C	7.76	1.62	1.52
1	8R	200	THR	C-N	7.76	1.43	1.33
1	8Z	87	HIS	CB-CG	7.76	1.61	1.50
1	8Z	166	ASP	CA-C	-7.76	1.43	1.52
1	aK	152	ASP	C-N	7.76	1.43	1.33
1	dh	18	ARG	C-N	7.76	1.44	1.33
1	fo	151	LEU	CA-C	7.76	1.63	1.52
1	f	127	GLY	CA-C	-7.76	1.43	1.52
1	lh	84	HIS	CE1-NE2	7.76	1.40	1.32
1	3T	38	PRO	CA-CB	7.76	1.64	1.53
1	7x	47	ALA	N-CA	-7.76	1.36	1.46
1	99	15	ILE	N-CA	7.76	1.56	1.46
1	aX	136	LEU	C-N	7.76	1.43	1.33
1	cg	139	ASN	CA-C	7.76	1.63	1.52
1	x	224	PRO	CA-C	7.76	1.61	1.52
1	il	1	PRO	N-CD	7.76	1.58	1.47
1	jT	6	LEU	CA-C	7.76	1.62	1.52
1	1Z	64	ALA	C-N	7.76	1.43	1.33
1	3B	39	MET	C-N	7.76	1.43	1.33
1	4h	12	HIS	ND1-CE1	7.76	1.40	1.32
1	55	186	THR	N-CA	7.76	1.55	1.46
1	13	50	GLN	N-CA	7.76	1.55	1.46
1	aL	202	LEU	CA-C	7.76	1.62	1.52
1	aV	88	ALA	CA-CB	7.76	1.65	1.53
1	c3	36	VAL	C-N	7.76	1.44	1.34
1	dD	83	LEU	C-N	7.76	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ed	166	ASP	CA-C	-7.76	1.43	1.52
1	fD	20	LEU	CA-CB	7.76	1.65	1.53
1	21	31	ALA	CA-C	7.76	1.62	1.53
1	2d	133	TRP	CA-C	7.76	1.62	1.52
1	2y	96	MET	C-N	7.76	1.43	1.33
1	4L	34	PRO	CA-C	-7.76	1.41	1.52
1	5i	182	LYS	N-CA	-7.76	1.36	1.46
1	9M	222	GLY	C-N	7.76	1.45	1.33
1	9U	141	ILE	C-N	7.76	1.43	1.33
1	aC	88	ALA	CA-C	7.76	1.62	1.52
1	bu	148	THR	CA-C	7.76	1.61	1.52
1	cj	142	VAL	C-N	7.76	1.44	1.33
1	dJ	226	HIS	CA-CB	7.76	1.66	1.53
1	c	87	HIS	ND1-CE1	7.76	1.40	1.32
1	r	170	LYS	CA-CB	7.76	1.65	1.53
1	gx	5	ASN	N-CA	7.76	1.55	1.45
1	hE	7	GLN	CA-CB	7.76	1.64	1.53
1	ip	177	ALA	CA-C	-7.76	1.43	1.52
1	jb	117	TRP	NE1-CE2	-7.76	1.28	1.37
1	7V	167	ARG	CD-NE	7.76	1.57	1.46
1	c1	173	ARG	CZ-NH2	-7.76	1.23	1.33
1	1d	68	MET	CA-CB	7.76	1.65	1.53
1	cS	189	LEU	CA-C	-7.76	1.42	1.52
1	d8	87	HIS	ND1-CE1	7.76	1.40	1.32
1	iP	87	HIS	CE1-NE2	7.76	1.40	1.32
1	3m	184	TRP	NE1-CE2	-7.76	1.28	1.37
1	4L	220	GLY	CA-C	-7.76	1.40	1.51
1	7Q	57	ASN	CA-CB	7.76	1.65	1.53
1	b7	74	ASN	CA-CB	7.76	1.65	1.53
1	do	203	LYS	CA-C	7.76	1.63	1.52
1	4	111	LEU	CA-CB	7.76	1.65	1.53
1	lR	226	HIS	ND1-CE1	7.75	1.40	1.32
1	2e	36	VAL	C-N	7.75	1.42	1.33
1	61	96	MET	C-N	7.75	1.44	1.33
1	16	143	ARG	C-N	7.75	1.43	1.33
1	bB	162	ARG	CZ-NH2	-7.75	1.23	1.33
1	d0	48	THR	CA-C	7.75	1.62	1.52
1	eu	197	ASP	CA-CB	7.75	1.65	1.53
1	gT	26	VAL	N-CA	7.75	1.55	1.46
1	gU	104	ILE	N-CA	7.75	1.56	1.46
1	gZ	145	TYR	N-CA	-7.75	1.36	1.46
1	jo	34	PRO	C-N	7.75	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k3	132	ARG	CD-NE	7.75	1.57	1.46
1	lr	87	HIS	CA-C	7.75	1.62	1.52
1	68	70	LYS	C-N	7.75	1.43	1.33
1	7e	86	VAL	CA-CB	-7.75	1.44	1.54
1	bA	184	TRP	CA-CB	7.75	1.66	1.53
1	bN	91	ILE	CA-CB	-7.75	1.44	1.53
1	dj	127	GLY	CA-C	7.75	1.61	1.52
1	e3	4	GLN	C-N	7.75	1.43	1.33
1	kS	132	ARG	CD-NE	7.75	1.57	1.46
1	5t	51	ASP	CA-CB	7.75	1.65	1.53
1	7n	152	ASP	CA-CB	7.75	1.59	1.53
1	98	33	SER	CA-C	7.75	1.60	1.52
1	e2	156	GLY	N-CA	7.75	1.55	1.44
1	eW	83	LEU	N-CA	-7.75	1.36	1.46
1	fM	117	TRP	N-CA	-7.75	1.37	1.46
1	z	155	GLN	CA-C	-7.75	1.43	1.52
1	h9	205	LEU	CA-C	7.75	1.62	1.52
1	hJ	54	THR	CA-CB	7.75	1.65	1.53
1	jH	162	ARG	CA-C	7.75	1.62	1.52
1	3e	221	VAL	CA-CB	-7.75	1.46	1.54
1	3l	49	PRO	N-CA	7.75	1.57	1.47
1	5S	177	ALA	CA-C	7.75	1.62	1.52
1	81	140	LYS	N-CA	-7.75	1.36	1.46
1	cV	109	SER	CA-C	7.75	1.62	1.52
1	fY	125	PRO	CA-CB	7.75	1.62	1.53
1	h9	52	LEU	CA-CB	7.75	1.65	1.53
1	3Q	98	GLU	CA-C	7.75	1.62	1.53
1	9s	28	GLU	CA-C	7.75	1.62	1.52
1	eY	84	HIS	N-CA	-7.75	1.37	1.46
1	f5	44	SER	CA-CB	7.75	1.65	1.53
1	v	6	LEU	N-CA	7.75	1.56	1.46
1	i7	98	GLU	C-N	7.75	1.43	1.33
1	jj	112	GLN	N-CA	-7.75	1.37	1.46
1	3x	48	THR	CA-C	-7.75	1.42	1.52
1	6i	139	ASN	CA-C	7.75	1.62	1.52
1	9I	6	LEU	CA-C	-7.75	1.42	1.52
1	ap	35	GLU	C-N	7.75	1.43	1.34
1	bw	118	MET	C-N	7.75	1.45	1.33
1	fq	178	SER	CA-C	7.75	1.61	1.52
1	23	84	HIS	CA-C	-7.75	1.43	1.52
1	8b	129	ILE	N-CA	7.75	1.55	1.46
1	h8	133	TRP	C-N	7.74	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jE	120	HIS	ND1-CE1	7.74	1.40	1.32
1	2Q	4	GLN	CA-CB	7.74	1.66	1.53
1	5A	227	LYS	CA-CB	7.74	1.65	1.53
1	6a	30	LYS	N-CA	7.74	1.55	1.46
1	8H	29	GLU	CA-C	-7.74	1.47	1.52
1	9m	104	ILE	N-CA	-7.74	1.37	1.46
1	14	116	GLY	CA-C	7.74	1.61	1.52
1	bA	82	ARG	C-N	7.74	1.43	1.33
1	cK	8	GLY	CA-C	-7.74	1.41	1.51
1	cK	71	GLU	CA-CB	7.74	1.65	1.53
1	d0	36	VAL	C-N	7.74	1.42	1.33
1	df	5	ASN	CA-C	7.74	1.58	1.52
1	fN	92	GLU	N-CA	7.74	1.54	1.46
1	m	56	LEU	CA-C	7.74	1.62	1.52
1	hf	25	LYS	CA-C	7.74	1.62	1.52
1	3t	2	ILE	C-N	7.74	1.43	1.33
1	b1	142	VAL	N-CA	-7.74	1.37	1.46
1	de	54	THR	C-N	7.74	1.44	1.33
1	dI	15	ILE	CA-CB	7.74	1.63	1.54
1	dJ	162	ARG	CD-NE	7.74	1.57	1.46
1	fD	113	GLU	N-CA	7.74	1.55	1.46
1	iH	229	ARG	C-O	7.74	1.33	1.24
1	6I	63	GLN	CA-CB	7.74	1.65	1.53
1	6V	151	LEU	CA-C	7.74	1.62	1.52
1	8b	3	VAL	CA-CB	-7.74	1.44	1.53
1	aF	81	ASP	CA-C	-7.74	1.42	1.52
1	aL	130	TYR	N-CA	-7.74	1.37	1.46
1	dk	12	HIS	N-CA	-7.74	1.36	1.45
1	dF	124	ILE	CA-CB	7.74	1.62	1.53
1	eX	183	ASN	C-O	-7.74	1.15	1.24
1	h	96	MET	CA-C	7.74	1.63	1.53
1	hk	225	GLY	CA-C	-7.74	1.43	1.52
1	kh	212	GLU	C-N	7.74	1.43	1.33
1	ln	91	ILE	N-CA	7.74	1.55	1.46
1	4Y	13	GLN	CA-C	-7.74	1.43	1.52
1	7n	56	LEU	CA-CB	7.74	1.65	1.53
1	7X	206	GLY	C-N	7.74	1.42	1.34
1	8k	179	GLN	CA-C	7.74	1.62	1.52
1	aJ	208	ALA	C-N	7.74	1.44	1.33
1	bn	88	ALA	CA-C	7.74	1.62	1.52
1	eD	226	HIS	CA-C	7.74	1.62	1.52
1	eQ	52	LEU	CA-C	-7.74	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	it	33	SER	CA-CB	7.74	1.65	1.54
1	5D	196	PRO	CA-CB	7.74	1.65	1.53
1	cV	130	TYR	CA-C	7.74	1.62	1.52
1	dT	1	PRO	N-CA	7.74	1.58	1.47
1	gL	14	ALA	C-N	7.74	1.42	1.33
1	gY	96	MET	CA-C	7.74	1.61	1.52
1	jI	2	ILE	CA-CB	7.74	1.63	1.54
1	br	202	LEU	CA-CB	7.74	1.65	1.53
1	ce	176	GLN	CA-C	-7.74	1.45	1.53
1	dv	198	CYS	CA-CB	7.74	1.66	1.53
1	gv	17	PRO	C-N	7.73	1.44	1.33
1	iA	52	LEU	C-N	7.73	1.44	1.33
1	1V	199	LYS	C-N	7.73	1.44	1.33
1	kU	13	GLN	C-N	7.73	1.44	1.33
1	3Z	36	VAL	C-N	7.73	1.42	1.33
1	7t	154	ARG	CA-C	-7.73	1.43	1.52
1	8b	213	GLU	C-N	7.73	1.44	1.34
1	cQ	26	VAL	N-CA	-7.73	1.37	1.46
1	eq	166	ASP	CA-C	7.73	1.62	1.52
1	2	3	VAL	C-N	7.73	1.43	1.33
1	ig	34	PRO	CA-CB	-7.73	1.42	1.53
1	it	226	HIS	ND1-CE1	7.73	1.40	1.32
1	jf	160	PRO	N-CA	-7.73	1.37	1.47
1	1V	84	HIS	CA-C	7.73	1.61	1.52
1	ln	33	SER	CA-CB	7.73	1.64	1.54
1	lN	208	ALA	CA-C	7.73	1.62	1.52
1	39	125	PRO	CA-CB	-7.73	1.48	1.53
1	5k	162	ARG	CA-C	-7.73	1.42	1.52
1	5J	158	LYS	CA-C	-7.73	1.41	1.52
1	6N	67	GLN	N-CA	-7.73	1.36	1.46
1	8s	97	ARG	CD-NE	7.73	1.57	1.46
1	cX	100	ARG	CD-NE	7.73	1.57	1.46
1	f7	69	LEU	N-CA	7.73	1.55	1.46
1	fS	37	ILE	CA-C	-7.73	1.45	1.52
1	9	40	PHE	C-N	7.73	1.44	1.33
1	kp	32	PHE	N-CA	7.73	1.56	1.46
1	kv	10	MET	C-N	7.73	1.42	1.33
1	5I	230	VAL	CA-CB	7.73	1.63	1.54
1	64	83	LEU	N-CA	-7.73	1.37	1.46
1	9D	110	THR	N-CA	-7.73	1.35	1.45
1	bn	37	ILE	CA-CB	7.73	1.57	1.54
1	da	61	GLY	N-CA	7.73	1.56	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eh	80	TRP	CA-CB	7.73	1.65	1.53
1	lz	166	ASP	CA-C	7.73	1.62	1.52
1	c9	119	THR	N-CA	7.73	1.56	1.45
1	hx	45	GLU	CA-CB	7.73	1.64	1.53
1	iT	186	THR	N-CA	7.73	1.55	1.46
1	1U	124	ILE	CA-C	7.73	1.59	1.53
1	25	74	ASN	CA-C	7.73	1.62	1.52
1	2Z	132	ARG	C-N	7.73	1.44	1.33
1	5h	128	GLU	CA-C	7.73	1.62	1.52
1	5L	120	HIS	ND1-CE1	7.73	1.40	1.32
1	8I	9	GLN	CA-C	7.73	1.62	1.52
1	8I	195	ASN	CA-CB	7.73	1.63	1.53
1	9C	181	VAL	C-N	7.73	1.44	1.33
1	aB	4	GLN	CA-CB	7.73	1.63	1.53
1	bH	129	ILE	CA-C	7.73	1.62	1.52
1	U	51	ASP	CA-CB	7.73	1.65	1.53
1	ju	12	HIS	CA-CB	7.73	1.62	1.52
1	kl	142	VAL	CA-C	7.73	1.62	1.52
1	kO	85	PRO	CA-CB	7.73	1.61	1.53
1	lF	144	MET	CA-CB	7.73	1.65	1.53
1	lM	85	PRO	CA-C	-7.73	1.43	1.52
1	4F	64	ALA	CA-CB	7.73	1.65	1.53
1	5f	40	PHE	N-CA	-7.73	1.36	1.46
1	gJ	229	ARG	CA-CB	7.72	1.64	1.53
1	jc	207	PRO	CA-CB	7.72	1.63	1.53
1	2v	12	HIS	CB-CG	7.72	1.60	1.50
1	7y	157	PRO	C-N	7.72	1.44	1.33
1	7N	62	HIS	CB-CG	-7.72	1.39	1.50
1	8E	204	ALA	CA-CB	7.72	1.65	1.53
1	as	124	ILE	CA-C	7.72	1.59	1.53
1	bi	181	VAL	CA-C	-7.72	1.43	1.52
1	18	132	ARG	CD-NE	7.72	1.57	1.46
1	e1	147	PRO	CA-C	7.72	1.61	1.52
1	gh	173	ARG	CA-C	7.72	1.62	1.52
1	hY	152	ASP	CA-CB	7.72	1.67	1.53
1	lF	62	HIS	CA-CB	7.72	1.65	1.53
1	3b	203	LYS	CA-CB	7.72	1.65	1.53
1	3Q	121	ASN	CA-C	7.72	1.59	1.52
1	43	84	HIS	CA-C	7.72	1.60	1.52
1	7V	230	VAL	CA-C	7.72	1.61	1.52
1	7Y	226	HIS	ND1-CE1	7.72	1.40	1.32
1	18	154	ARG	NE-CZ	7.72	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1r	87	HIS	CG-CD2	7.72	1.44	1.35
1	fM	135	ILE	C-N	7.72	1.44	1.33
1	ka	59	VAL	N-CA	7.72	1.55	1.46
1	cf	134	ILE	N-CA	-7.72	1.37	1.46
1	dF	29	GLU	CA-C	7.72	1.62	1.52
1	eX	92	GLU	CA-C	-7.72	1.44	1.52
1	ip	69	LEU	CA-C	7.72	1.62	1.52
1	l2	127	GLY	CA-C	-7.72	1.41	1.51
1	lA	89	GLY	C-N	-7.72	1.23	1.33
1	5i	174	ALA	C-N	7.72	1.43	1.33
1	5D	59	VAL	CA-CB	-7.72	1.44	1.53
1	68	37	ILE	CA-CB	7.72	1.58	1.54
1	8A	159	GLU	CA-C	7.72	1.61	1.52
1	9x	69	LEU	C-N	7.72	1.43	1.33
1	bM	55	MET	CA-C	7.72	1.62	1.52
1	cX	161	PHE	CA-CB	7.72	1.66	1.53
1	e2	120	HIS	ND1-CE1	7.72	1.40	1.32
1	fn	57	ASN	CA-CB	7.72	1.65	1.53
1	23	132	ARG	CA-CB	7.72	1.65	1.53
1	I	62	HIS	ND1-CE1	7.72	1.40	1.32
1	jq	12	HIS	ND1-CE1	7.72	1.40	1.32
1	kr	151	LEU	N-CA	-7.72	1.36	1.46
1	kO	137	GLY	CA-C	7.72	1.60	1.52
1	l0	181	VAL	CA-CB	-7.72	1.45	1.54
1	l9	117	TRP	NE1-CE2	-7.72	1.28	1.37
1	lh	14	ALA	N-CA	7.72	1.55	1.46
1	2X	75	GLU	CA-C	-7.72	1.43	1.52
1	3s	132	ARG	CD-NE	7.72	1.57	1.46
1	9k	195	ASN	CA-C	7.72	1.61	1.53
1	c4	62	HIS	CE1-NE2	7.72	1.40	1.32
1	cB	20	LEU	CA-CB	7.72	1.65	1.53
1	d9	111	LEU	CA-C	7.72	1.63	1.52
1	fv	125	PRO	CA-C	7.72	1.60	1.53
1	fC	120	HIS	CB-CG	7.72	1.60	1.50
1	kj	156	GLY	C-N	7.71	1.40	1.33
1	kY	146	SER	CA-CB	7.71	1.63	1.53
1	2P	207	PRO	CA-C	7.71	1.59	1.52
1	5w	74	ASN	CA-C	7.71	1.63	1.52
1	5A	28	GLU	CA-CB	7.71	1.66	1.53
1	9q	115	ILE	C-N	7.71	1.44	1.33
1	9U	23	TRP	CA-C	-7.71	1.46	1.52
1	aK	84	HIS	ND1-CE1	7.71	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bb	195	ASN	CA-C	7.71	1.62	1.53
1	1b	129	ILE	CA-C	-7.71	1.43	1.52
1	cF	176	GLN	CA-CB	7.71	1.63	1.53
1	dR	191	VAL	CA-C	7.71	1.63	1.52
1	Q	167	ARG	N-CA	7.71	1.56	1.46
1	hv	75	GLU	N-CA	-7.71	1.36	1.46
1	26	229	ARG	CD-NE	7.71	1.57	1.46
1	2T	51	ASP	CA-C	7.71	1.62	1.52
1	7d	120	HIS	ND1-CE1	7.71	1.40	1.32
1	8I	143	ARG	CA-C	-7.71	1.42	1.52
1	aH	71	GLU	C-N	7.71	1.43	1.33
1	cD	147	PRO	CA-CB	7.71	1.64	1.53
1	dn	215	MET	CA-C	-7.71	1.42	1.52
1	i6	135	ILE	CA-CB	7.71	1.63	1.54
1	j7	63	GLN	CA-C	-7.71	1.42	1.52
1	jF	124	ILE	CA-C	7.71	1.59	1.53
1	2S	224	PRO	C-N	7.71	1.43	1.34
1	6R	118	MET	CA-CB	7.71	1.65	1.53
1	88	122	PRO	C-N	7.71	1.43	1.33
1	18	123	PRO	N-CA	-7.71	1.37	1.47
1	en	134	ILE	CA-CB	-7.71	1.44	1.54
1	er	5	ASN	CA-CB	7.71	1.64	1.53
1	V	17	PRO	N-CA	7.71	1.57	1.47
1	gh	18	ARG	CA-C	-7.71	1.43	1.52
1	j5	144	MET	CA-CB	7.71	1.67	1.53
1	5D	77	ALA	N-CA	-7.71	1.37	1.46
1	d5	174	ALA	N-CA	-7.71	1.35	1.46
1	3o	87	HIS	ND1-CE1	7.71	1.40	1.32
1	48	101	GLY	CA-C	-7.71	1.42	1.52
1	8d	208	ALA	CA-C	7.71	1.63	1.52
1	8t	225	GLY	CA-C	-7.71	1.40	1.51
1	8J	41	SER	CA-C	7.71	1.62	1.52
1	90	215	MET	C-N	7.71	1.45	1.33
1	9h	170	LYS	CA-CB	7.71	1.66	1.53
1	hQ	171	THR	C-N	7.71	1.44	1.33
1	hS	159	GLU	CA-C	-7.71	1.44	1.53
1	lt	182	LYS	N-CA	-7.71	1.37	1.46
1	2c	162	ARG	CA-C	7.71	1.63	1.52
1	7C	164	TYR	CA-C	7.71	1.62	1.52
1	8j	177	ALA	CA-C	7.71	1.63	1.52
1	8H	226	HIS	ND1-CE1	7.71	1.40	1.32
1	a1	202	LEU	CA-C	7.71	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bY	167	ARG	CD-NE	7.71	1.57	1.46
1	c2	43	LEU	CA-CB	7.71	1.65	1.53
1	eo	134	ILE	CA-CB	-7.71	1.44	1.54
1	eA	129	ILE	N-CA	7.71	1.55	1.46
1	fn	119	THR	N-CA	7.71	1.56	1.46
1	fs	114	GLN	CA-C	-7.71	1.42	1.52
1	ho	23	TRP	CA-CB	7.71	1.65	1.53
1	li	72	THR	C-N	7.71	1.43	1.34
1	6J	129	ILE	CA-CB	-7.71	1.44	1.54
1	c2	21	ASN	CA-CB	7.71	1.65	1.53
1	d0	68	MET	N-CA	-7.71	1.36	1.46
1	dw	32	PHE	CA-C	-7.71	1.45	1.53
1	fZ	43	LEU	N-CA	-7.71	1.36	1.46
1	gb	86	VAL	CA-CB	-7.70	1.44	1.54
1	jK	195	ASN	CA-C	7.70	1.61	1.53
1	22	80	TRP	CA-C	7.70	1.62	1.52
1	lq	170	LYS	CA-C	7.70	1.62	1.52
1	40	62	HIS	CB-CG	-7.70	1.39	1.50
1	4H	178	SER	CA-C	7.70	1.63	1.52
1	5e	133	TRP	C-O	-7.70	1.15	1.24
1	cJ	115	ILE	CA-C	7.70	1.64	1.52
1	fi	76	GLU	CA-C	-7.70	1.43	1.52
1	M	155	GLN	CA-C	7.70	1.62	1.52
1	2v	111	LEU	CA-C	-7.70	1.42	1.52
1	3M	15	ILE	CA-C	7.70	1.61	1.52
1	dc	185	MET	N-CA	-7.70	1.37	1.46
1	dd	143	ARG	CA-CB	7.70	1.65	1.53
1	dE	211	LEU	N-CA	-7.70	1.36	1.46
1	dL	174	ALA	CA-C	7.70	1.63	1.52
1	ee	230	VAL	N-CA	-7.70	1.37	1.46
1	fF	184	TRP	N-CA	7.70	1.55	1.46
1	ji	80	TRP	N-CA	-7.70	1.36	1.46
1	jv	98	GLU	CA-C	7.70	1.62	1.53
1	jQ	62	HIS	CA-CB	7.70	1.65	1.53
1	7y	63	GLN	CA-C	-7.70	1.42	1.52
1	7T	37	ILE	CA-C	7.70	1.60	1.52
1	8Q	43	LEU	CA-C	-7.70	1.42	1.52
1	bU	139	ASN	C-N	7.70	1.43	1.33
1	g2	37	ILE	CA-C	7.70	1.59	1.52
1	1V	93	PRO	CA-CB	7.70	1.64	1.53
1	jM	63	GLN	CA-CB	7.70	1.65	1.53
1	k0	137	GLY	CA-C	7.70	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kX	33	SER	CA-CB	7.70	1.64	1.53
1	lK	87	HIS	CE1-NE2	7.70	1.40	1.32
1	9s	208	ALA	CA-CB	7.70	1.64	1.53
1	Y	149	SER	CA-CB	7.70	1.64	1.53
1	cg	123	PRO	C-N	7.70	1.40	1.33
1	G	74	ASN	C-N	7.70	1.43	1.33
1	7N	123	PRO	C-N	7.70	1.40	1.33
1	9u	192	GLN	CA-C	7.70	1.62	1.52
1	9B	73	ILE	CA-CB	7.70	1.64	1.54
1	9E	87	HIS	CG-ND1	7.70	1.46	1.38
1	1c	173	ARG	CA-C	7.70	1.63	1.52
1	cw	67	GLN	CA-C	7.70	1.62	1.52
1	fG	224	PRO	CA-C	7.70	1.59	1.52
1	fU	117	TRP	CA-CB	7.70	1.65	1.53
1	h1	56	LEU	CA-CB	7.70	1.65	1.53
1	jN	219	GLN	N-CA	7.70	1.56	1.46
1	kM	20	LEU	CA-C	7.70	1.62	1.52
1	lH	84	HIS	ND1-CE1	7.70	1.40	1.32
1	3K	10	MET	C-N	7.70	1.43	1.33
1	5m	96	MET	C-N	7.70	1.44	1.33
1	fl	159	GLU	CA-CB	7.70	1.68	1.53
1	jS	124	ILE	N-CA	-7.69	1.40	1.46
1	3T	164	TYR	CA-CB	7.69	1.65	1.53
1	5T	72	THR	N-CA	7.69	1.55	1.46
1	a9	189	LEU	N-CA	-7.69	1.36	1.46
1	b5	142	VAL	N-CA	7.69	1.55	1.46
1	cD	188	THR	CA-C	-7.69	1.46	1.52
1	f3	195	ASN	CA-C	7.69	1.61	1.53
1	fc	223	GLY	N-CA	7.69	1.55	1.44
1	1V	12	HIS	ND1-CE1	7.69	1.40	1.32
1	k5	89	GLY	CA-C	7.69	1.62	1.51
1	ku	84	HIS	ND1-CE1	7.69	1.40	1.32
1	3Y	82	ARG	CD-NE	7.69	1.57	1.46
1	55	64	ALA	CA-C	7.69	1.62	1.52
1	7m	115	ILE	C-N	7.69	1.44	1.33
1	am	155	GLN	CA-C	7.69	1.62	1.52
1	p	33	SER	N-CA	-7.69	1.40	1.46
1	p	153	ILE	CA-C	-7.69	1.44	1.52
1	z	195	ASN	CA-C	7.69	1.61	1.53
1	Q	129	ILE	CB-CG1	7.69	1.68	1.53
1	a3	62	HIS	CE1-NE2	7.69	1.40	1.32
1	cn	149	SER	C-N	7.69	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eE	59	VAL	CA-C	-7.69	1.43	1.52
1	g5	193	ASN	N-CA	-7.69	1.35	1.46
1	iy	60	GLY	CA-C	-7.69	1.41	1.51
1	lJ	98	GLU	CA-C	7.69	1.61	1.53
1	2s	41	SER	CA-CB	7.69	1.65	1.53
1	51	12	HIS	CG-CD2	7.69	1.44	1.35
1	9i	172	LEU	C-N	7.69	1.43	1.33
1	fA	220	GLY	C-N	7.69	1.42	1.33
1	kc	151	LEU	CA-C	7.69	1.63	1.52
1	kB	221	VAL	CA-C	-7.69	1.42	1.52
1	lD	74	ASN	CA-C	7.69	1.62	1.52
1	39	165	VAL	CA-CB	-7.69	1.45	1.54
1	4j	146	SER	CA-C	7.69	1.61	1.53
1	7h	172	LEU	CA-C	-7.69	1.42	1.52
1	8H	62	HIS	CD2-NE2	7.69	1.46	1.37
1	8V	143	ARG	CA-C	7.69	1.62	1.52
1	aQ	92	GLU	CA-CB	7.69	1.64	1.53
1	1r	33	SER	CA-C	7.69	1.63	1.52
1	2j	33	SER	CA-C	-7.69	1.45	1.53
1	8k	70	LYS	N-CA	-7.69	1.36	1.46
1	aq	49	PRO	CA-C	7.69	1.63	1.52
1	au	178	SER	C-N	7.69	1.43	1.33
1	g	75	GLU	C-N	7.69	1.44	1.33
1	S	55	MET	C-N	7.69	1.43	1.33
1	gK	84	HIS	N-CA	-7.68	1.38	1.46
1	1J	174	ALA	C-N	7.68	1.44	1.33
1	k3	97	ARG	CA-C	7.68	1.63	1.52
1	l6	219	GLN	CA-CB	7.68	1.65	1.53
1	2f	124	ILE	N-CA	-7.68	1.39	1.46
1	3A	4	GLN	C-N	7.68	1.41	1.32
1	5G	16	SER	CA-CB	7.68	1.65	1.53
1	5M	37	ILE	CA-CB	7.68	1.59	1.53
1	6C	153	ILE	CA-C	7.68	1.62	1.53
1	7k	193	ASN	C-N	7.68	1.43	1.33
1	8w	161	PHE	N-CA	7.68	1.55	1.46
1	8H	5	ASN	C-N	7.68	1.44	1.33
1	99	97	ARG	CD-NE	7.68	1.57	1.46
1	bo	37	ILE	C-N	7.68	1.44	1.34
1	c4	226	HIS	ND1-CE1	7.68	1.40	1.32
1	cy	29	GLU	CA-CB	7.68	1.65	1.53
1	de	135	ILE	CA-CB	7.68	1.64	1.54
1	e5	5	ASN	C-N	7.68	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kH	105	ALA	C-N	7.68	1.43	1.33
1	lf	168	PHE	CA-CB	7.68	1.65	1.53
1	40	156	GLY	CA-C	-7.68	1.41	1.51
1	4V	146	SER	CA-C	7.68	1.61	1.52
1	6J	12	HIS	ND1-CE1	7.68	1.40	1.32
1	8C	128	GLU	C-N	7.68	1.43	1.33
1	bg	50	GLN	CA-CB	7.68	1.65	1.53
1	ct	164	TYR	C-N	7.68	1.43	1.33
1	dv	187	GLU	CA-C	7.68	1.63	1.52
1	dx	220	GLY	C-N	7.68	1.43	1.33
1	N	30	LYS	C-O	7.68	1.34	1.24
1	gM	12	HIS	CA-C	-7.68	1.43	1.52
1	kn	120	HIS	ND1-CE1	7.68	1.40	1.32
1	57	11	VAL	CA-CB	7.68	1.63	1.54
1	6V	76	GLU	CA-CB	7.68	1.65	1.53
1	8K	12	HIS	ND1-CE1	7.68	1.40	1.32
1	9B	117	TRP	NE1-CE2	-7.68	1.29	1.37
1	I	51	ASP	CA-C	7.68	1.62	1.52
1	26	154	ARG	CD-NE	7.68	1.57	1.46
1	lH	26	VAL	CA-CB	7.68	1.64	1.54
1	2r	127	GLY	CA-C	-7.68	1.43	1.52
1	6K	99	PRO	CA-C	-7.68	1.45	1.52
1	93	47	ALA	CA-C	7.68	1.62	1.52
1	co	33	SER	CA-C	7.68	1.60	1.53
1	eY	226	HIS	CB-CG	-7.68	1.39	1.50
1	fD	40	PHE	CA-CB	7.68	1.65	1.53
1	4x	141	ILE	CA-CB	-7.68	1.45	1.54
1	8M	112	GLN	C-N	7.68	1.44	1.33
1	fN	42	ALA	CA-C	7.68	1.62	1.52
1	5O	95	GLN	CA-C	-7.68	1.43	1.52
1	6Y	117	TRP	NE1-CE2	-7.68	1.29	1.37
1	8r	27	VAL	CA-C	7.68	1.62	1.52
1	9U	216	THR	N-CA	7.68	1.56	1.46
1	dF	44	SER	N-CA	7.68	1.54	1.46
1	em	72	THR	N-CA	7.68	1.55	1.46
1	fn	42	ALA	N-CA	7.68	1.55	1.46
1	c	120	HIS	ND1-CE1	7.68	1.40	1.32
1	Q	120	HIS	CB-CG	7.68	1.60	1.50
1	gh	144	MET	CA-CB	7.67	1.65	1.53
1	gj	226	HIS	CD2-NE2	7.67	1.46	1.37
1	ja	127	GLY	CA-C	-7.67	1.43	1.52
1	4s	84	HIS	ND1-CE1	7.67	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7X	82	ARG	CA-C	7.67	1.63	1.52
1	7Z	62	HIS	ND1-CE1	-7.67	1.24	1.32
1	dq	166	ASP	CA-C	7.67	1.62	1.52
1	iR	51	ASP	CA-CB	7.67	1.65	1.53
1	4x	28	GLU	CA-CB	7.67	1.65	1.53
1	5m	221	VAL	CA-C	-7.67	1.43	1.52
1	gR	143	ARG	CD-NE	7.67	1.56	1.46
1	gZ	120	HIS	ND1-CE1	7.67	1.40	1.32
1	if	56	LEU	CA-CB	7.67	1.66	1.53
1	kg	132	ARG	C-N	7.67	1.44	1.33
1	kj	114	GLN	N-CA	7.67	1.55	1.46
1	kP	186	THR	N-CA	7.67	1.55	1.46
1	2T	86	VAL	CA-C	7.67	1.61	1.52
1	3w	96	MET	C-N	7.67	1.43	1.33
1	3C	86	VAL	C-N	7.67	1.43	1.33
1	4k	169	TYR	C-N	7.67	1.43	1.33
1	4V	130	TYR	CA-CB	7.67	1.65	1.53
1	5a	37	ILE	CA-CB	7.67	1.59	1.53
1	6P	124	ILE	CA-C	7.67	1.60	1.52
1	72	68	MET	N-CA	7.67	1.55	1.46
1	7v	63	GLN	CA-C	7.67	1.63	1.52
1	7X	179	GLN	N-CA	-7.67	1.36	1.46
1	9L	23	TRP	NE1-CE2	7.67	1.45	1.37
1	d4	12	HIS	ND1-CE1	7.67	1.40	1.32
1	eI	72	THR	C-N	7.67	1.43	1.33
1	fD	1	PRO	C-N	7.67	1.43	1.33
1	g1	12	HIS	CD2-NE2	7.67	1.46	1.37
1	g3	208	ALA	N-CA	-7.67	1.36	1.45
1	M	142	VAL	CA-CB	7.67	1.62	1.54
1	U	104	ILE	CA-CB	-7.67	1.44	1.54
1	kv	176	GLN	CA-CB	7.67	1.63	1.53
1	2L	5	ASN	CA-C	7.67	1.56	1.52
1	3M	154	ARG	CD-NE	7.67	1.56	1.46
1	4w	25	LYS	CA-C	-7.67	1.42	1.52
1	bH	181	VAL	CA-C	7.67	1.62	1.52
1	eP	75	GLU	CA-CB	7.67	1.65	1.53
1	fM	82	ARG	CD-NE	7.67	1.56	1.46
1	gw	118	MET	CA-CB	7.67	1.65	1.53
1	gL	162	ARG	CA-CB	7.67	1.65	1.53
1	lK	63	GLN	C-N	7.67	1.43	1.33
1	3T	190	LEU	CA-CB	7.67	1.65	1.53
1	44	11	VAL	CA-CB	-7.67	1.46	1.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	51	106	GLY	N-CA	7.67	1.57	1.44
1	aE	138	LEU	C-N	7.67	1.44	1.33
1	aM	59	VAL	CA-CB	7.67	1.63	1.54
1	ce	19	THR	CB-OG1	-7.67	1.31	1.43
1	dg	43	LEU	CA-C	7.67	1.63	1.52
1	dv	84	HIS	CA-CB	7.67	1.63	1.53
1	X	153	ILE	N-CA	7.67	1.55	1.46
1	ic	215	MET	N-CA	-7.67	1.36	1.46
1	j4	93	PRO	CA-C	-7.67	1.42	1.52
1	kH	92	GLU	CA-C	7.67	1.61	1.53
1	lL	92	GLU	C-N	7.67	1.43	1.33
1	2Z	164	TYR	CA-CB	7.67	1.65	1.53
1	54	120	HIS	ND1-CE1	7.67	1.40	1.32
1	5w	80	TRP	N-CA	-7.67	1.37	1.46
1	6C	178	SER	CA-CB	7.67	1.65	1.53
1	7B	204	ALA	N-CA	7.67	1.55	1.46
1	dA	75	GLU	C-N	7.67	1.44	1.33
1	ew	164	TYR	CA-C	7.67	1.62	1.52
1	eE	128	GLU	CA-C	7.67	1.62	1.52
1	eP	27	VAL	N-CA	7.67	1.55	1.46
1	eS	166	ASP	CA-CB	7.67	1.65	1.53
1	2I	145	TYR	CA-CB	7.67	1.63	1.53
1	1h	55	MET	CA-C	7.67	1.62	1.52
1	dR	78	ALA	CA-C	7.67	1.62	1.52
1	gr	115	ILE	CA-CB	-7.66	1.45	1.54
1	2r	44	SER	CA-CB	7.66	1.64	1.53
1	2W	190	LEU	N-CA	7.66	1.55	1.46
1	3A	10	MET	CA-C	-7.66	1.44	1.53
1	6j	86	VAL	C-N	7.66	1.43	1.33
1	72	132	ARG	CA-C	7.66	1.62	1.52
1	7g	75	GLU	C-N	7.66	1.44	1.34
1	8c	162	ARG	CA-C	7.66	1.62	1.52
1	9N	89	GLY	CA-C	-7.66	1.41	1.51
1	e1	56	LEU	CA-CB	7.66	1.65	1.53
1	f7	27	VAL	C-N	7.66	1.44	1.33
1	8h	67	GLN	CA-C	-7.66	1.43	1.52
1	a3	53	ASN	CA-C	-7.66	1.43	1.52
1	ce	37	ILE	C-N	-7.66	1.24	1.34
1	hW	125	PRO	CA-C	-7.66	1.46	1.53
1	js	94	GLY	CA-C	-7.66	1.40	1.51
1	ku	64	ALA	CA-C	7.66	1.62	1.52
1	2R	130	TYR	CA-C	7.66	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3e	183	ASN	CA-C	7.66	1.62	1.52
1	9p	215	MET	CA-CB	7.66	1.65	1.53
1	fh	19	THR	N-CA	7.66	1.55	1.46
1	6	230	VAL	N-CA	-7.66	1.37	1.46
1	if	91	ILE	CA-C	7.66	1.61	1.52
1	ig	141	ILE	CA-CB	-7.66	1.43	1.54
1	iO	121	ASN	CA-CB	7.66	1.62	1.53
1	2G	47	ALA	N-CA	-7.66	1.36	1.46
1	41	218	CYS	CA-C	7.66	1.63	1.52
1	4M	12	HIS	ND1-CE1	7.66	1.40	1.32
1	8e	181	VAL	N-CA	7.66	1.55	1.46
1	8q	226	HIS	ND1-CE1	7.66	1.40	1.32
1	aF	167	ARG	CA-CB	7.66	1.65	1.53
1	b2	118	MET	CA-CB	7.66	1.66	1.53
1	g4	6	LEU	N-CA	7.66	1.55	1.46
1	3h	151	LEU	CA-CB	7.66	1.65	1.53
1	9c	75	GLU	C-N	7.66	1.44	1.33
1	bS	25	LYS	CA-C	-7.66	1.42	1.52
1	cM	23	TRP	NE1-CE2	-7.66	1.29	1.37
1	1p	113	GLU	CA-CB	7.66	1.65	1.53
1	4	83	LEU	C-N	7.66	1.43	1.33
1	jy	21	ASN	CA-C	7.66	1.62	1.52
1	kP	195	ASN	CA-CB	7.66	1.64	1.53
1	2F	62	HIS	CE1-NE2	7.66	1.40	1.32
1	3F	87	HIS	CA-C	-7.66	1.43	1.52
1	57	190	LEU	CA-CB	7.66	1.65	1.53
1	5X	126	VAL	N-CA	7.66	1.55	1.46
1	aU	126	VAL	CA-CB	-7.66	1.46	1.54
1	dH	19	THR	CA-C	-7.66	1.43	1.52
1	3M	36	VAL	N-CA	-7.65	1.36	1.46
1	49	170	LYS	C-N	7.65	1.43	1.33
1	7k	129	ILE	N-CA	-7.65	1.38	1.46
1	a0	229	ARG	CA-C	7.65	1.63	1.52
1	cN	37	ILE	CA-CB	7.65	1.57	1.54
1	1i	180	GLU	N-CA	7.65	1.55	1.46
1	et	21	ASN	CA-C	-7.65	1.43	1.52
1	b	176	GLN	CA-C	7.65	1.63	1.53
1	ie	73	ILE	CA-C	7.65	1.62	1.52
1	jr	168	PHE	CA-C	7.65	1.63	1.52
1	ka	144	MET	N-CA	-7.65	1.37	1.46
1	le	201	ILE	CA-CB	-7.65	1.44	1.54
1	5j	114	GLN	CA-C	7.65	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7b	37	ILE	CA-C	7.65	1.59	1.52
1	8T	112	GLN	CA-CB	7.65	1.65	1.53
1	9j	51	ASP	C-N	7.65	1.43	1.33
1	fI	29	GLU	CA-C	7.65	1.62	1.52
1	iV	68	MET	CA-C	7.65	1.62	1.52
1	kS	213	GLU	N-CA	-7.65	1.37	1.46
1	l7	177	ALA	C-N	7.65	1.43	1.33
1	2B	92	GLU	CA-CB	7.65	1.65	1.53
1	a9	163	ASP	N-CA	7.65	1.55	1.46
1	bD	197	ASP	CA-CB	7.65	1.65	1.53
1	cC	21	ASN	C-N	7.65	1.43	1.33
1	dy	203	LYS	CA-C	7.65	1.62	1.52
1	gO	32	PHE	CA-CB	7.65	1.64	1.53
1	iJ	168	PHE	CA-CB	7.65	1.65	1.53
1	jN	84	HIS	CA-CB	7.65	1.63	1.53
1	5L	68	MET	C-N	7.65	1.43	1.33
1	7b	169	TYR	CA-C	-7.65	1.42	1.52
1	7w	85	PRO	N-CA	7.65	1.57	1.47
1	8L	10	MET	CA-CB	7.65	1.65	1.53
1	at	64	ALA	N-CA	-7.65	1.36	1.46
1	dd	124	ILE	CA-C	-7.65	1.47	1.53
1	gu	126	VAL	CA-CB	7.65	1.63	1.54
1	gB	154	ARG	CA-C	-7.65	1.43	1.52
1	gO	180	GLU	CA-CB	7.65	1.65	1.53
1	hG	32	PHE	CA-C	7.65	1.62	1.52
1	i5	120	HIS	ND1-CE1	7.65	1.40	1.32
1	j0	126	VAL	C-N	7.65	1.43	1.34
1	j5	25	LYS	CA-C	-7.65	1.42	1.52
1	ke	15	ILE	CA-C	-7.65	1.43	1.52
1	lh	84	HIS	ND1-CE1	7.65	1.40	1.32
1	lp	116	GLY	CA-C	7.65	1.60	1.52
1	2U	230	VAL	CA-C	7.65	1.61	1.52
1	5s	1	PRO	N-CD	7.65	1.58	1.47
1	6y	91	ILE	CA-CB	-7.65	1.45	1.54
1	9m	224	PRO	CA-C	7.65	1.60	1.52
1	bY	12	HIS	C-N	7.65	1.43	1.33
1	cl	62	HIS	ND1-CE1	-7.65	1.25	1.32
1	ff	223	GLY	CA-C	7.65	1.62	1.51
1	j	64	ALA	CA-C	7.65	1.62	1.52
1	3a	86	VAL	CA-C	7.65	1.61	1.52
1	43	140	LYS	CA-C	7.65	1.62	1.52
1	9M	135	ILE	CA-CB	-7.65	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9R	34	PRO	N-CA	-7.65	1.37	1.47
1	gb	122	PRO	C-N	7.64	1.43	1.33
1	gF	167	ARG	CA-C	7.64	1.62	1.52
1	5A	126	VAL	C-N	7.64	1.42	1.33
1	8e	204	ALA	CA-C	7.64	1.63	1.52
1	8Y	154	ARG	CD-NE	7.64	1.56	1.46
1	ca	72	THR	CA-C	7.64	1.62	1.52
1	ds	86	VAL	CA-CB	7.64	1.63	1.54
1	ef	226	HIS	CD2-NE2	7.64	1.46	1.37
1	f4	114	GLN	N-CA	-7.64	1.36	1.46
1	r	6	LEU	CA-CB	7.64	1.65	1.53
1	gs	86	VAL	N-CA	7.64	1.55	1.46
1	gO	195	ASN	CA-CB	7.64	1.65	1.53
1	3n	33	SER	CA-CB	7.64	1.65	1.53
1	7H	99	PRO	C-N	7.64	1.43	1.33
1	8p	22	ALA	N-CA	-7.64	1.37	1.46
1	aa	128	GLU	CA-C	-7.64	1.42	1.52
1	bo	37	ILE	CA-CB	7.64	1.58	1.54
1	fq	20	LEU	CA-C	-7.64	1.43	1.52
1	hk	143	ARG	CD-NE	7.64	1.56	1.46
1	4a	49	PRO	CA-C	7.64	1.63	1.52
1	5d	163	ASP	CA-CB	7.64	1.65	1.53
1	9N	21	ASN	CA-CB	7.64	1.65	1.53
1	cG	148	THR	CA-C	-7.64	1.43	1.52
1	h9	153	ILE	C-N	7.64	1.43	1.33
1	ik	32	PHE	C-N	7.64	1.42	1.33
1	ik	184	TRP	CA-CB	7.64	1.65	1.53
1	jP	176	GLN	C-O	-7.64	1.15	1.24
1	kd	209	ALA	C-N	7.64	1.43	1.33
1	39	206	GLY	CA-C	-7.64	1.41	1.51
1	7Z	45	GLU	CA-C	7.64	1.62	1.52
1	8K	132	ARG	CD-NE	7.64	1.56	1.46
1	a3	221	VAL	CA-CB	-7.64	1.44	1.54
1	bP	139	ASN	CA-C	7.64	1.62	1.52
1	g7	94	GLY	C-N	7.64	1.43	1.33
1	5h	73	ILE	CA-CB	-7.64	1.46	1.54
1	9A	70	LYS	CA-C	-7.64	1.43	1.52
1	Z	45	GLU	CA-C	7.64	1.63	1.52
1	bC	126	VAL	CA-CB	7.64	1.65	1.54
1	fq	144	MET	CA-C	7.64	1.62	1.52
1	hB	120	HIS	CG-CD2	7.64	1.44	1.35
1	hY	120	HIS	CG-CD2	7.64	1.44	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i5	157	PRO	CA-C	7.64	1.59	1.52
1	km	210	THR	CA-CB	7.64	1.65	1.53
1	2I	120	HIS	CA-C	7.64	1.63	1.53
1	9p	185	MET	N-CA	-7.64	1.36	1.46
1	ak	37	ILE	CA-C	7.64	1.60	1.52
1	aC	167	ARG	C-N	7.64	1.44	1.33
1	dW	114	GLN	N-CA	-7.64	1.37	1.46
1	fQ	113	GLU	CA-CB	7.64	1.65	1.53
1	fQ	144	MET	N-CA	-7.64	1.37	1.46
1	A	4	GLN	CA-C	-7.64	1.43	1.52
1	M	24	VAL	CA-CB	-7.64	1.44	1.54
1	gq	124	ILE	CA-CB	7.63	1.63	1.54
1	iw	118	MET	C-N	7.63	1.43	1.33
1	jm	143	ARG	CA-CB	7.63	1.65	1.53
1	kk	99	PRO	N-CA	-7.63	1.38	1.47
1	2i	177	ALA	CA-C	7.63	1.63	1.53
1	3X	134	ILE	CA-C	7.63	1.62	1.52
1	4C	57	ASN	CA-C	7.63	1.63	1.52
1	6p	185	MET	CA-C	7.63	1.63	1.52
1	7V	124	ILE	CA-CB	7.63	1.60	1.54
1	8N	198	CYS	CA-C	7.63	1.62	1.52
1	a8	23	TRP	CA-C	7.63	1.62	1.52
1	1g	12	HIS	CB-CG	7.63	1.60	1.50
1	d1	195	ASN	CA-C	7.63	1.61	1.53
1	du	226	HIS	N-CA	-7.63	1.36	1.45
1	er	45	GLU	CA-C	7.63	1.62	1.52
1	eJ	226	HIS	ND1-CE1	7.63	1.40	1.32
1	cB	71	GLU	CA-CB	7.63	1.65	1.53
1	1t	120	HIS	CA-CB	7.63	1.66	1.53
1	20	116	GLY	CA-C	7.63	1.60	1.51
1	lk	19	THR	CA-C	-7.63	1.42	1.52
1	2Q	80	TRP	CA-C	7.63	1.62	1.52
1	3p	226	HIS	CB-CG	7.63	1.60	1.50
1	3V	143	ARG	N-CA	-7.63	1.37	1.46
1	71	39	MET	C-N	7.63	1.44	1.33
1	8V	167	ARG	CD-NE	7.63	1.56	1.46
1	bQ	181	VAL	CA-CB	7.63	1.63	1.54
1	dW	109	SER	CA-C	-7.63	1.43	1.52
1	fI	82	ARG	CA-C	7.63	1.62	1.52
1	z	54	THR	CA-C	7.63	1.63	1.52
1	1T	154	ARG	N-CA	-7.63	1.36	1.45
1	t	3	VAL	C-N	7.63	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	71	GLU	N-CA	-7.63	1.36	1.46
1	gX	158	LYS	N-CA	7.63	1.56	1.46
1	1K	163	ASP	CA-C	-7.63	1.42	1.52
1	2b	84	HIS	N-CA	7.63	1.54	1.46
1	2u	12	HIS	CA-C	-7.63	1.43	1.52
1	2E	158	LYS	CA-CB	7.63	1.64	1.53
1	3n	52	LEU	N-CA	7.63	1.55	1.46
1	6j	39	MET	N-CA	-7.63	1.37	1.46
1	8Q	12	HIS	CA-CB	7.63	1.64	1.53
1	1c	207	PRO	CA-C	-7.63	1.45	1.52
1	cQ	72	THR	C-N	7.63	1.43	1.33
1	em	45	GLU	CA-CB	7.63	1.62	1.53
1	g8	64	ALA	CA-CB	7.63	1.65	1.53
1	gK	139	ASN	CA-C	-7.63	1.42	1.52
1	hJ	89	GLY	N-CA	7.63	1.55	1.44
1	lL	16	SER	CA-C	7.63	1.61	1.53
1	2t	17	PRO	N-CD	-7.63	1.37	1.47
1	3G	165	VAL	CA-C	7.63	1.62	1.52
1	3X	115	ILE	C-N	7.63	1.44	1.33
1	8a	67	GLN	CA-CB	7.63	1.65	1.53
1	bR	10	MET	CA-CB	7.63	1.66	1.53
1	ew	198	CYS	CA-C	7.63	1.63	1.52
1	P	139	ASN	CA-CB	7.63	1.65	1.53
1	X	100	ARG	CD-NE	7.63	1.56	1.46
1	1J	143	ARG	CA-C	7.62	1.62	1.52
1	2m	19	THR	CA-C	7.62	1.62	1.52
1	4b	191	VAL	CA-CB	7.62	1.64	1.54
1	5W	9	GLN	C-N	7.62	1.44	1.33
1	aG	154	ARG	CD-NE	7.62	1.56	1.46
1	le	12	HIS	CG-CD2	7.62	1.44	1.35
1	2u	15	ILE	C-N	7.62	1.45	1.33
1	5X	48	THR	CA-C	-7.62	1.42	1.52
1	6u	33	SER	C-N	7.62	1.43	1.33
1	6u	119	THR	CA-C	-7.62	1.43	1.52
1	70	22	ALA	N-CA	-7.62	1.37	1.46
1	8V	19	THR	N-CA	7.62	1.55	1.46
1	9p	132	ARG	CA-CB	7.62	1.65	1.53
1	9L	73	ILE	CA-CB	7.62	1.64	1.54
1	cc	12	HIS	CB-CG	7.62	1.60	1.50
1	ef	186	THR	N-CA	-7.62	1.36	1.46
1	eg	84	HIS	ND1-CE1	7.62	1.40	1.32
1	eK	35	GLU	CA-C	7.62	1.63	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eT	213	GLU	C-N	7.62	1.44	1.33
1	gv	5	ASN	C-N	7.62	1.44	1.33
1	i6	75	GLU	C-N	7.62	1.44	1.33
1	ib	87	HIS	CA-CB	7.62	1.66	1.53
1	jJ	37	ILE	C-N	7.62	1.43	1.34
1	2v	136	LEU	CA-C	7.62	1.62	1.52
1	7g	202	LEU	CA-CB	7.62	1.65	1.53
1	aV	99	PRO	N-CA	-7.62	1.38	1.47
1	dC	198	CYS	N-CA	7.62	1.56	1.46
1	iS	16	SER	CA-C	-7.62	1.44	1.53
1	6X	59	VAL	N-CA	7.62	1.55	1.46
1	bI	175	GLU	N-CA	7.62	1.55	1.46
1	em	89	GLY	C-O	7.62	1.34	1.24
1	gs	216	THR	N-CA	7.62	1.56	1.46
1	hc	161	PHE	CA-C	-7.62	1.43	1.52
1	ie	90	PRO	CA-CB	7.62	1.64	1.53
1	iz	138	LEU	CA-C	7.62	1.63	1.52
1	iZ	49	PRO	C-N	7.62	1.43	1.33
1	jM	137	GLY	C-N	7.62	1.44	1.33
1	2M	75	GLU	CA-CB	7.62	1.65	1.53
1	4y	113	GLU	CA-C	-7.62	1.43	1.52
1	4V	124	ILE	CA-CB	-7.62	1.44	1.54
1	5v	102	SER	CA-C	7.62	1.62	1.52
1	8K	122	PRO	N-CD	7.62	1.58	1.47
1	b1	141	ILE	CA-C	7.62	1.62	1.52
1	bL	9	GLN	C-N	7.62	1.44	1.33
1	cM	36	VAL	CA-CB	7.62	1.63	1.54
1	dI	170	LYS	CA-CB	7.62	1.65	1.53
1	eb	162	ARG	CD-NE	7.62	1.56	1.46
1	eK	146	SER	CA-C	7.62	1.62	1.52
1	gs	218	CYS	CA-C	-7.62	1.41	1.52
1	h3	92	GLU	C-N	-7.62	1.26	1.33
1	lz	135	ILE	C-N	7.62	1.44	1.33
1	2x	59	VAL	CA-CB	-7.62	1.44	1.54
1	2z	73	ILE	CA-CB	7.62	1.64	1.54
1	dc	220	GLY	N-CA	7.62	1.53	1.45
1	F	75	GLU	CA-CB	7.62	1.65	1.53
1	hr	81	ASP	N-CA	-7.62	1.36	1.46
1	ir	177	ALA	N-CA	-7.62	1.36	1.46
1	kb	35	GLU	CA-C	-7.62	1.42	1.52
1	kk	110	THR	CA-C	-7.62	1.42	1.52
1	24	129	ILE	CA-C	-7.62	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l7	63	GLN	C-O	-7.62	1.14	1.24
1	8B	136	LEU	N-CA	-7.62	1.37	1.46
1	9m	74	ASN	CA-CB	7.62	1.65	1.53
1	A	163	ASP	CA-C	7.62	1.63	1.52
1	gA	103	ASP	CA-CB	7.61	1.65	1.53
1	gC	164	TYR	C-N	7.61	1.43	1.33
1	gL	126	VAL	CA-CB	-7.61	1.45	1.54
1	ib	45	GLU	CA-CB	7.61	1.65	1.53
1	ih	23	TRP	NE1-CE2	7.61	1.45	1.37
1	iq	149	SER	CA-C	-7.61	1.43	1.52
1	lI	109	SER	N-CA	7.61	1.55	1.46
1	2r	168	PHE	CA-CB	7.61	1.65	1.53
1	4u	52	LEU	CA-C	-7.61	1.42	1.52
1	5e	86	VAL	CA-C	7.61	1.62	1.52
1	5j	113	GLU	CA-CB	7.61	1.65	1.53
1	63	62	HIS	CE1-NE2	7.61	1.40	1.32
1	6C	65	ALA	N-CA	-7.61	1.36	1.46
1	7v	143	ARG	CD-NE	7.61	1.56	1.46
1	8z	103	ASP	C-N	7.61	1.43	1.34
1	9X	82	ARG	CA-CB	7.61	1.65	1.53
1	aw	120	HIS	N-CA	-7.61	1.36	1.46
1	c4	22	ALA	CA-C	7.61	1.63	1.52
1	cm	226	HIS	CB-CG	7.61	1.60	1.50
1	ef	120	HIS	ND1-CE1	7.61	1.40	1.32
1	eK	124	ILE	CA-C	-7.61	1.47	1.53
1	C	157	PRO	N-CA	-7.61	1.37	1.47
1	jP	228	ALA	C-N	7.61	1.44	1.33
1	6U	124	ILE	N-CA	-7.61	1.40	1.46
1	8C	85	PRO	CA-CB	7.61	1.60	1.53
1	aF	185	MET	CA-C	-7.61	1.42	1.52
1	hf	131	LYS	CA-C	-7.61	1.42	1.52
1	4E	222	GLY	C-O	7.61	1.30	1.23
1	6H	187	GLU	CA-C	7.61	1.62	1.52
1	ei	118	MET	CA-C	7.61	1.62	1.52
1	f0	145	TYR	CA-CB	7.61	1.66	1.53
1	fy	127	GLY	CA-C	-7.61	1.44	1.52
1	2b	101	GLY	CA-C	7.61	1.60	1.52
1	3K	26	VAL	CA-C	-7.61	1.43	1.52
1	3L	94	GLY	N-CA	7.61	1.56	1.45
1	c	26	VAL	N-CA	-7.61	1.37	1.46
1	gu	200	THR	C-N	7.61	1.43	1.33
1	hz	229	ARG	C-N	7.61	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1V	116	GLY	CA-C	-7.61	1.43	1.52
1	jo	125	PRO	CA-C	7.61	1.63	1.52
1	jM	75	GLU	CA-CB	7.61	1.65	1.53
1	3A	200	THR	N-CA	7.61	1.55	1.46
1	4u	126	VAL	C-N	7.61	1.43	1.33
1	6w	152	ASP	CA-C	7.61	1.63	1.53
1	6U	120	HIS	C-N	7.61	1.40	1.33
1	86	48	THR	CA-CB	7.61	1.64	1.53
1	9e	126	VAL	CA-CB	-7.61	1.45	1.54
1	cp	57	ASN	N-CA	-7.61	1.36	1.46
1	dV	6	LEU	C-N	7.61	1.44	1.33
1	eJ	32	PHE	C-N	7.61	1.42	1.33
1	i1	87	HIS	N-CA	-7.61	1.36	1.46
1	iU	120	HIS	CD2-NE2	7.61	1.46	1.37
1	lJ	3	VAL	CA-CB	-7.61	1.45	1.54
1	3m	40	PHE	N-CA	7.61	1.55	1.46
1	46	43	LEU	CA-C	7.61	1.62	1.52
1	50	176	GLN	C-N	7.61	1.43	1.33
1	7w	139	ASN	CA-CB	7.61	1.65	1.53
1	7z	120	HIS	CB-CG	7.61	1.60	1.50
1	cG	1	PRO	N-CA	7.61	1.58	1.47
1	dO	207	PRO	C-N	7.61	1.43	1.33
1	dZ	213	GLU	CA-C	7.61	1.62	1.52
1	e4	41	SER	CA-CB	7.61	1.65	1.53
1	ee	110	THR	N-CA	7.61	1.55	1.45
1	fE	98	GLU	C-N	7.61	1.42	1.33
1	iJ	230	VAL	CA-C	7.60	1.64	1.53
1	kC	201	ILE	CA-CB	-7.60	1.45	1.54
1	65	182	LYS	CA-C	7.60	1.62	1.52
1	8A	84	HIS	ND1-CE1	7.60	1.40	1.32
1	8Q	188	THR	CA-CB	7.60	1.65	1.53
1	ar	23	TRP	N-CA	-7.60	1.37	1.46
1	1e	12	HIS	C-N	7.60	1.45	1.33
1	cw	195	ASN	CA-C	7.60	1.62	1.52
1	t	83	LEU	CA-C	-7.60	1.43	1.52
1	z	179	GLN	CA-C	7.60	1.63	1.52
1	i2	146	SER	CA-C	7.60	1.60	1.53
1	29	161	PHE	CA-CB	7.60	1.63	1.52
1	3f	184	TRP	CA-CB	7.60	1.65	1.53
1	5b	41	SER	C-N	7.60	1.43	1.33
1	7J	226	HIS	CE1-NE2	7.60	1.40	1.32
1	9R	36	VAL	C-N	7.60	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9T	29	GLU	CA-CB	7.60	1.65	1.53
1	db	226	HIS	CG-CD2	7.60	1.44	1.35
1	dr	6	LEU	CA-C	-7.60	1.43	1.52
1	e4	211	LEU	CA-C	-7.60	1.42	1.52
1	eo	195	ASN	CA-C	7.60	1.60	1.53
1	eH	141	ILE	N-CA	-7.60	1.38	1.46
1	eK	154	ARG	CA-C	-7.60	1.43	1.52
1	fm	137	GLY	CA-C	-7.60	1.43	1.52
1	A	152	ASP	C-N	7.60	1.42	1.33
1	gw	123	PRO	C-N	7.60	1.40	1.33
1	hd	124	ILE	CA-C	7.60	1.59	1.53
1	k1	54	THR	N-CA	-7.60	1.37	1.46
1	k4	54	THR	CA-CB	7.60	1.66	1.53
1	35	164	TYR	CA-CB	7.60	1.65	1.53
1	51	134	ILE	N-CA	-7.60	1.37	1.46
1	8y	206	GLY	C-N	-7.60	1.25	1.34
1	eR	209	ALA	CA-C	7.60	1.62	1.52
1	1x	69	LEU	CA-CB	7.60	1.65	1.53
1	fA	161	PHE	N-CA	-7.60	1.37	1.46
1	1y	149	SER	N-CA	-7.60	1.35	1.45
1	g7	218	CYS	CA-CB	7.60	1.66	1.53
1	hb	195	ASN	CA-CB	7.60	1.64	1.53
1	hz	205	LEU	CA-C	7.60	1.62	1.52
1	k5	113	GLU	C-N	7.60	1.43	1.33
1	kA	111	LEU	CA-CB	7.60	1.65	1.53
1	2h	135	ILE	N-CA	-7.60	1.37	1.46
1	2I	161	PHE	CA-CB	7.60	1.65	1.53
1	6d	188	THR	CA-CB	7.60	1.62	1.53
1	6s	120	HIS	ND1-CE1	7.60	1.40	1.32
1	8p	124	ILE	N-CA	-7.60	1.40	1.46
1	aD	184	TRP	NE1-CE2	7.60	1.45	1.37
1	14	132	ARG	N-CA	-7.60	1.37	1.46
1	aR	97	ARG	CD-NE	7.60	1.56	1.46
1	cF	2	ILE	CA-C	7.60	1.61	1.52
1	dx	107	THR	C-N	7.60	1.44	1.33
1	dM	156	GLY	C-N	7.60	1.40	1.33
1	g7	2	ILE	N-CA	-7.60	1.36	1.46
1	F	170	LYS	CA-C	7.60	1.63	1.52
1	ge	135	ILE	CA-CB	7.60	1.64	1.54
1	hf	19	THR	CA-C	7.60	1.62	1.52
1	i6	141	ILE	CA-C	-7.60	1.43	1.52
1	i7	221	VAL	C-N	7.60	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iw	41	SER	CA-C	7.60	1.62	1.52
1	iL	47	ALA	CA-C	7.60	1.62	1.52
1	j0	129	ILE	N-CA	7.60	1.55	1.46
1	kp	166	ASP	N-CA	7.60	1.55	1.46
1	lv	208	ALA	C-N	7.60	1.44	1.33
1	5l	157	PRO	CA-C	7.60	1.63	1.52
1	5n	67	GLN	CA-C	-7.60	1.43	1.52
1	5x	120	HIS	CE1-NE2	-7.60	1.25	1.32
1	6I	229	ARG	CD-NE	7.60	1.56	1.46
1	ax	190	LEU	CA-C	7.60	1.62	1.52
1	aW	31	ALA	C-N	7.60	1.44	1.33
1	ca	129	ILE	CA-C	7.60	1.62	1.52
1	6	198	CYS	CA-C	-7.60	1.43	1.52
1	i1	184	TRP	NE1-CE2	-7.60	1.29	1.37
1	iz	155	GLN	CA-C	7.60	1.63	1.52
1	2O	214	MET	CA-C	-7.60	1.42	1.52
1	c4	167	ARG	CD-NE	7.60	1.56	1.46
1	fw	31	ALA	CA-C	7.60	1.62	1.52
1	g6	205	LEU	N-CA	-7.60	1.37	1.46
1	4	145	TYR	CA-CB	7.60	1.64	1.54
1	gt	75	GLU	CA-CB	7.59	1.65	1.53
1	iR	169	TYR	CA-CB	7.59	1.65	1.53
1	20	45	GLU	C-N	7.59	1.44	1.33
1	9Y	129	ILE	CA-C	7.59	1.62	1.52
1	ax	16	SER	CA-C	7.59	1.60	1.53
1	13	20	LEU	CA-C	7.59	1.62	1.52
1	da	1	PRO	N-CD	7.59	1.58	1.47
1	dy	33	SER	N-CA	-7.59	1.38	1.45
1	ez	169	TYR	CA-CB	7.59	1.65	1.53
1	fC	221	VAL	CA-CB	7.59	1.61	1.54
1	g2	216	THR	CA-C	-7.59	1.44	1.52
1	hR	164	TYR	CA-CB	7.59	1.65	1.53
1	jW	178	SER	CA-CB	7.59	1.65	1.53
1	kK	209	ALA	C-N	7.59	1.43	1.33
1	2b	103	ASP	C-N	7.59	1.44	1.33
1	31	215	MET	CA-CB	7.59	1.65	1.53
1	4J	134	ILE	CA-CB	7.59	1.64	1.54
1	8r	161	PHE	C-N	7.59	1.43	1.33
1	8A	153	ILE	CA-C	7.59	1.62	1.52
1	gW	36	VAL	CA-CB	7.59	1.64	1.54
1	23	195	ASN	CA-C	7.59	1.61	1.53
1	2U	110	THR	C-N	7.59	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4k	120	HIS	ND1-CE1	7.59	1.40	1.32
1	6v	134	ILE	CA-CB	-7.59	1.45	1.54
1	9L	80	TRP	CA-C	-7.59	1.43	1.52
1	aN	111	LEU	C-N	7.59	1.43	1.33
1	cE	103	ASP	C-N	-7.59	1.24	1.33
1	cR	76	GLU	N-CA	-7.59	1.36	1.46
1	dA	5	ASN	C-N	7.59	1.43	1.33
1	g1	210	THR	N-CA	7.59	1.55	1.45
1	j7	223	GLY	N-CA	7.59	1.55	1.44
1	kb	159	GLU	CA-C	7.59	1.61	1.52
1	la	142	VAL	N-CA	7.59	1.55	1.46
1	lH	87	HIS	CA-C	7.59	1.62	1.52
1	3G	132	ARG	CA-CB	7.59	1.65	1.53
1	4o	18	ARG	CA-C	-7.59	1.43	1.52
1	4M	122	PRO	N-CD	-7.59	1.37	1.47
1	5M	219	GLN	C-N	7.59	1.43	1.33
1	8c	12	HIS	N-CA	-7.59	1.36	1.46
1	8J	205	LEU	CA-CB	7.59	1.65	1.53
1	8L	97	ARG	CA-C	-7.59	1.43	1.52
1	9f	18	ARG	C-N	7.59	1.43	1.33
1	bb	139	ASN	CA-CB	7.59	1.65	1.53
1	co	112	GLN	CA-CB	7.59	1.65	1.53
1	eS	162	ARG	CA-CB	7.59	1.65	1.53
1	fb	176	GLN	C-N	7.59	1.44	1.33
1	fp	35	GLU	C-N	7.59	1.43	1.33
1	fB	182	LYS	C-N	7.59	1.43	1.33
1	gg	85	PRO	CA-C	7.59	1.63	1.52
1	gw	96	MET	CA-C	7.59	1.62	1.52
1	4q	25	LYS	CA-C	7.59	1.62	1.52
1	6i	87	HIS	ND1-CE1	7.59	1.40	1.32
1	7G	164	TYR	CA-C	7.59	1.62	1.52
1	ba	62	HIS	CE1-NE2	7.59	1.40	1.32
1	9	102	SER	CA-CB	7.59	1.65	1.53
1	hN	15	ILE	CA-CB	-7.59	1.45	1.54
1	jf	167	ARG	N-CA	-7.59	1.37	1.46
1	kM	62	HIS	CA-CB	7.59	1.65	1.53
1	kW	45	GLU	C-N	7.59	1.43	1.33
1	lG	162	ARG	CA-CB	7.59	1.66	1.53
1	3s	214	MET	CA-CB	7.59	1.65	1.53
1	3Y	180	GLU	C-N	7.59	1.43	1.33
1	4a	18	ARG	CA-C	7.59	1.62	1.52
1	7V	167	ARG	N-CA	-7.59	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8S	15	ILE	CA-CB	7.59	1.64	1.54
1	aP	127	GLY	CA-C	-7.59	1.43	1.52
1	do	52	LEU	CA-CB	7.59	1.65	1.53
1	1u	13	GLN	CA-C	-7.59	1.43	1.52
1	iP	37	ILE	CA-CB	-7.58	1.50	1.54
1	3V	79	GLU	C-N	7.58	1.44	1.34
1	7J	12	HIS	CB-CG	7.58	1.60	1.50
1	ct	164	TYR	CA-CB	7.58	1.65	1.53
1	d5	49	PRO	C-N	7.58	1.43	1.33
1	F	146	SER	CA-C	7.58	1.60	1.53
1	hV	132	ARG	CD-NE	7.58	1.56	1.46
1	hZ	18	ARG	CA-C	-7.58	1.43	1.52
1	iM	192	GLN	CA-CB	7.58	1.65	1.53
1	iS	226	HIS	ND1-CE1	7.58	1.40	1.32
1	1W	152	ASP	C-N	7.58	1.41	1.33
1	4i	170	LYS	CA-CB	7.58	1.65	1.53
1	6j	188	THR	CA-C	-7.58	1.45	1.52
1	a6	184	TRP	CA-CB	7.58	1.65	1.53
1	dt	169	TYR	N-CA	7.58	1.55	1.46
1	e6	110	THR	CA-C	-7.58	1.42	1.53
1	go	218	CYS	N-CA	7.58	1.57	1.46
1	1F	185	MET	N-CA	7.58	1.55	1.46
1	jD	168	PHE	CA-CB	7.58	1.65	1.53
1	jF	23	TRP	CA-CB	7.58	1.65	1.53
1	jR	155	GLN	CA-CB	7.58	1.63	1.53
1	lx	67	GLN	N-CA	-7.58	1.37	1.46
1	46	210	THR	CA-C	7.58	1.63	1.53
1	4e	124	ILE	CA-CB	7.58	1.64	1.54
1	5F	120	HIS	ND1-CE1	7.58	1.40	1.32
1	7x	226	HIS	ND1-CE1	7.58	1.40	1.32
1	80	131	LYS	N-CA	-7.58	1.37	1.46
1	8E	181	VAL	CA-C	-7.58	1.43	1.52
1	9K	124	ILE	CA-C	7.58	1.59	1.53
1	9L	164	TYR	C-N	7.58	1.43	1.33
1	af	82	ARG	CA-C	-7.58	1.43	1.52
1	au	201	ILE	CA-C	-7.58	1.44	1.52
1	bi	205	LEU	C-N	7.58	1.44	1.33
1	dj	49	PRO	CA-C	-7.58	1.40	1.52
1	dw	23	TRP	CA-CB	7.58	1.65	1.53
1	c	100	ARG	CD-NE	7.58	1.56	1.46
1	t	167	ARG	CA-C	-7.58	1.43	1.52
1	D	124	ILE	CA-C	7.58	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	U	115	ILE	CA-CB	-7.58	1.43	1.54
1	1X	198	CYS	CA-CB	7.58	1.65	1.53
1	ln	137	GLY	CA-C	-7.58	1.43	1.52
1	34	78	ALA	CA-C	7.58	1.63	1.52
1	5B	226	HIS	ND1-CE1	7.58	1.40	1.32
1	5L	125	PRO	CA-C	7.58	1.61	1.53
1	bA	120	HIS	CD2-NE2	7.58	1.46	1.37
1	1p	154	ARG	N-CA	-7.58	1.36	1.46
1	3	13	GLN	CA-C	7.58	1.61	1.52
1	1O	117	TRP	CA-CB	7.58	1.65	1.53
1	8F	209	ALA	CA-CB	7.58	1.65	1.53
1	9M	131	LYS	CA-CB	7.58	1.65	1.53
1	aa	146	SER	CA-C	7.58	1.61	1.52
1	1R	103	ASP	CA-C	7.58	1.62	1.52
1	jv	134	ILE	C-N	7.58	1.43	1.33
1	60	159	GLU	C-N	7.58	1.43	1.33
1	dD	198	CYS	CA-CB	7.58	1.65	1.53
1	fr	136	LEU	C-N	7.58	1.42	1.33
1	fD	124	ILE	CA-C	7.58	1.60	1.52
1	gx	47	ALA	CA-CB	7.58	1.65	1.53
1	gZ	13	GLN	CA-C	-7.58	1.43	1.52
1	hA	154	ARG	CA-C	7.58	1.62	1.52
1	i1	151	LEU	N-CA	-7.58	1.37	1.46
1	iP	154	ARG	CD-NE	7.58	1.56	1.46
1	jn	23	TRP	NE1-CE2	-7.58	1.29	1.37
1	kW	2	ILE	CA-C	7.58	1.62	1.52
1	4f	135	ILE	CA-CB	-7.58	1.45	1.54
1	b5	87	HIS	ND1-CE1	7.58	1.40	1.32
1	dc	137	GLY	CA-C	-7.58	1.42	1.52
1	dm	135	ILE	CA-CB	-7.58	1.45	1.54
1	dZ	195	ASN	CA-CB	7.58	1.64	1.53
1	gy	100	ARG	CD-NE	7.57	1.56	1.46
1	21	195	ASN	CA-CB	7.57	1.63	1.53
1	2n	26	VAL	CA-CB	7.57	1.64	1.54
1	3D	27	VAL	CA-C	7.57	1.62	1.52
1	8q	169	TYR	N-CA	7.57	1.55	1.46
1	9j	15	ILE	CA-CB	-7.57	1.46	1.54
1	al	195	ASN	CA-CB	7.57	1.64	1.53
1	aJ	125	PRO	C-N	7.57	1.42	1.34
1	bh	45	GLU	C-N	7.57	1.41	1.33
1	9	121	ASN	CA-C	7.57	1.60	1.52
1	99	230	VAL	C-N	7.57	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	131	LYS	CA-CB	7.57	1.65	1.53
1	gN	117	TRP	NE1-CE2	-7.57	1.29	1.37
1	if	112	GLN	CA-C	-7.57	1.42	1.52
1	iL	25	LYS	C-N	7.57	1.43	1.33
1	jr	142	VAL	CA-CB	-7.57	1.45	1.54
1	2q	21	ASN	CA-C	-7.57	1.43	1.52
1	4r	111	LEU	CA-C	7.57	1.62	1.52
1	5L	160	PRO	N-CA	-7.57	1.38	1.47
1	5O	37	ILE	CA-C	7.57	1.59	1.52
1	64	10	MET	CA-CB	7.57	1.64	1.53
1	6q	139	ASN	CA-CB	7.57	1.65	1.53
1	70	12	HIS	CG-ND1	-7.57	1.29	1.38
1	8k	12	HIS	CG-ND1	-7.57	1.29	1.38
1	aH	87	HIS	CG-ND1	-7.57	1.29	1.38
1	bA	50	GLN	CA-CB	7.57	1.65	1.53
1	c7	63	GLN	C-N	7.57	1.43	1.33
1	cq	56	LEU	CA-CB	7.57	1.65	1.53
1	cJ	3	VAL	CA-CB	-7.57	1.45	1.54
1	G	120	HIS	CA-CB	7.57	1.64	1.53
1	6t	48	THR	CA-C	7.57	1.63	1.52
1	8M	13	GLN	N-CA	-7.57	1.36	1.46
1	9I	132	ARG	N-CA	-7.57	1.37	1.46
1	bh	190	LEU	C-N	7.57	1.43	1.33
1	fs	31	ALA	C-N	7.57	1.43	1.33
1	gt	33	SER	N-CA	7.57	1.52	1.45
1	gX	120	HIS	CG-CD2	7.57	1.44	1.35
1	gY	64	ALA	C-N	7.57	1.43	1.33
1	jQ	228	ALA	N-CA	-7.57	1.36	1.46
1	ly	5	ASN	CA-C	7.57	1.62	1.52
1	3G	224	PRO	C-N	7.57	1.44	1.33
1	44	138	LEU	CA-C	7.57	1.62	1.52
1	5J	167	ARG	NE-CZ	7.57	1.41	1.33
1	cd	103	ASP	CA-C	7.57	1.62	1.52
1	d2	184	TRP	NE1-CE2	-7.57	1.29	1.37
1	d4	142	VAL	CA-CB	-7.57	1.45	1.54
1	er	66	MET	CA-CB	7.57	1.65	1.53
1	J	184	TRP	N-CA	-7.57	1.37	1.46
1	hQ	37	ILE	C-O	-7.57	1.18	1.24
1	jT	123	PRO	C-N	7.57	1.40	1.33
1	2u	195	ASN	CA-CB	7.57	1.64	1.53
1	43	69	LEU	CA-CB	7.57	1.65	1.53
1	77	66	MET	C-N	7.57	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7b	159	GLU	CA-C	-7.57	1.44	1.52
1	8f	36	VAL	C-N	7.57	1.42	1.33
1	ab	14	ALA	CA-C	7.57	1.62	1.52
1	bc	157	PRO	C-N	7.57	1.43	1.33
1	bv	55	MET	CA-CB	7.57	1.65	1.53
1	1b	205	LEU	N-CA	7.57	1.56	1.45
1	cZ	53	ASN	CA-CB	7.57	1.65	1.53
1	fW	173	ARG	CA-CB	7.57	1.65	1.53
1	i4	140	LYS	C-N	7.56	1.43	1.33
1	i9	107	THR	CA-C	-7.56	1.43	1.52
1	iS	13	GLN	C-N	7.56	1.43	1.33
1	kz	100	ARG	CZ-NH2	-7.56	1.23	1.33
1	lC	176	GLN	CA-CB	7.56	1.64	1.53
1	2E	81	ASP	CA-C	7.56	1.62	1.52
1	3Y	21	ASN	N-CA	7.56	1.55	1.46
1	4b	84	HIS	CE1-NE2	7.56	1.40	1.32
1	78	134	ILE	CA-CB	7.56	1.63	1.54
1	c4	227	LYS	CA-CB	7.56	1.66	1.53
1	s	164	TYR	N-CA	7.56	1.55	1.46
1	g8	91	ILE	CA-CB	7.56	1.63	1.54
1	ja	166	ASP	CA-CB	7.56	1.65	1.53
1	l4	132	ARG	CD-NE	7.56	1.56	1.46
1	6z	183	ASN	CA-C	-7.56	1.43	1.52
1	eZ	3	VAL	N-CA	-7.56	1.38	1.46
1	x	192	GLN	CA-CB	7.56	1.65	1.53
1	V	162	ARG	CD-NE	7.56	1.56	1.46
1	gx	184	TRP	CA-CB	7.56	1.65	1.53
1	2J	13	GLN	CA-C	-7.56	1.43	1.52
1	4q	166	ASP	CA-C	7.56	1.62	1.52
1	5b	156	GLY	C-N	7.56	1.42	1.34
1	5K	12	HIS	ND1-CE1	7.56	1.40	1.32
1	6w	111	LEU	C-N	7.56	1.43	1.33
1	9b	88	ALA	C-N	7.56	1.44	1.33
1	6	179	GLN	CA-CB	7.56	1.65	1.53
1	1G	92	GLU	CA-C	7.56	1.62	1.53
1	hp	189	LEU	CA-C	7.56	1.62	1.52
1	j4	26	VAL	CA-CB	7.56	1.63	1.54
1	kC	223	GLY	C-N	-7.56	1.25	1.34
1	la	164	TYR	C-N	7.56	1.43	1.33
1	3I	208	ALA	N-CA	-7.56	1.37	1.46
1	8d	195	ASN	CA-CB	7.56	1.65	1.53
1	a8	77	ALA	CA-C	7.56	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1a	82	ARG	CD-NE	7.56	1.56	1.46
1	cp	84	HIS	ND1-CE1	7.56	1.40	1.32
1	dW	37	ILE	CA-CB	7.56	1.59	1.53
1	e3	177	ALA	CA-C	7.56	1.62	1.52
1	q	82	ARG	CZ-NH2	-7.56	1.23	1.33
1	W	49	PRO	CA-CB	-7.56	1.43	1.53
1	gx	120	HIS	CA-CB	7.56	1.64	1.53
1	jz	172	LEU	CA-C	7.56	1.62	1.52
1	jM	92	GLU	CA-C	7.56	1.60	1.53
1	k7	128	GLU	N-CA	-7.56	1.37	1.46
1	ka	157	PRO	C-N	7.56	1.43	1.33
1	kB	153	ILE	CA-C	-7.56	1.43	1.52
1	74	78	ALA	CA-C	7.56	1.62	1.52
1	7f	87	HIS	ND1-CE1	7.56	1.40	1.32
1	bp	101	GLY	N-CA	7.56	1.55	1.45
1	bu	43	LEU	N-CA	7.56	1.56	1.46
1	bJ	141	ILE	N-CA	7.56	1.55	1.46
1	1v	176	GLN	N-CA	-7.56	1.37	1.46
1	fo	14	ALA	CA-C	-7.56	1.43	1.52
1	fA	162	ARG	CD-NE	7.56	1.56	1.46
1	g4	154	ARG	CA-C	-7.56	1.43	1.52
1	gV	147	PRO	CA-CB	7.56	1.64	1.53
1	4p	140	LYS	N-CA	7.56	1.55	1.46
1	52	80	TRP	CA-CB	7.56	1.65	1.53
1	5z	5	ASN	N-CA	-7.56	1.36	1.46
1	dd	186	THR	N-CA	-7.56	1.36	1.46
1	1n	34	PRO	N-CA	7.56	1.57	1.47
1	je	20	LEU	N-CA	7.55	1.55	1.46
1	4G	226	HIS	CD2-NE2	-7.55	1.29	1.37
1	8d	200	THR	C-N	7.55	1.42	1.34
1	co	170	LYS	CA-C	-7.55	1.43	1.52
1	ef	132	ARG	CA-CB	7.55	1.65	1.53
1	1r	190	LEU	CA-C	-7.55	1.43	1.52
1	hA	82	ARG	CA-CB	7.55	1.65	1.53
1	hF	117	TRP	N-CA	7.55	1.55	1.46
1	ia	221	VAL	C-O	-7.55	1.15	1.24
1	2c	170	LYS	CA-C	-7.55	1.42	1.52
1	l	135	ILE	CA-CB	7.55	1.62	1.54
1	gt	124	ILE	N-CA	7.55	1.52	1.46
1	h9	47	ALA	CA-C	-7.55	1.43	1.52
1	hG	167	ARG	CA-C	-7.55	1.43	1.52
1	iY	117	TRP	CA-C	7.55	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kA	162	ARG	CD-NE	7.55	1.56	1.46
1	2O	50	GLN	CA-CB	7.55	1.65	1.53
1	69	52	LEU	CA-CB	7.55	1.65	1.53
1	6D	32	PHE	N-CA	7.55	1.55	1.46
1	c8	168	PHE	CA-CB	7.55	1.65	1.53
1	dV	86	VAL	CA-C	7.55	1.61	1.52
1	eL	84	HIS	ND1-CE1	7.55	1.40	1.32
1	fi	37	ILE	CA-C	7.55	1.59	1.52
1	fD	132	ARG	CA-C	7.55	1.62	1.52
1	hy	96	MET	CA-C	7.55	1.62	1.52
1	iS	78	ALA	C-N	7.55	1.43	1.33
1	5s	127	GLY	N-CA	7.55	1.55	1.45
1	6s	41	SER	CA-CB	7.55	1.65	1.53
1	e5	116	GLY	CA-C	-7.55	1.44	1.52
1	eL	37	ILE	CA-CB	7.55	1.58	1.54
1	eP	19	THR	N-CA	7.55	1.55	1.46
1	g5	127	GLY	CA-C	7.55	1.60	1.52
1	k	143	ARG	CA-C	-7.55	1.43	1.52
1	2O	87	HIS	CA-C	7.55	1.62	1.52
1	3z	98	GLU	CA-C	-7.55	1.44	1.53
1	43	62	HIS	CE1-NE2	7.55	1.40	1.32
1	5g	226	HIS	CA-CB	7.55	1.62	1.53
1	6A	62	HIS	C-N	-7.55	1.23	1.33
1	9p	3	VAL	CA-C	-7.55	1.43	1.52
1	9H	40	PHE	CA-C	-7.55	1.43	1.52
1	aX	210	THR	CA-C	7.55	1.62	1.52
1	ct	124	ILE	N-CA	-7.55	1.39	1.46
1	f3	95	GLN	CA-C	-7.55	1.43	1.52
1	h2	165	VAL	CA-C	7.55	1.63	1.52
1	h5	226	HIS	ND1-CE1	7.55	1.40	1.32
1	hs	199	LYS	CA-CB	7.55	1.65	1.53
1	ix	92	GLU	CA-CB	7.55	1.65	1.54
1	km	214	MET	CA-CB	7.55	1.65	1.53
1	2s	163	ASP	CA-C	7.55	1.62	1.52
1	4o	176	GLN	CA-CB	7.55	1.65	1.53
1	4r	91	ILE	CA-C	7.55	1.61	1.52
1	4F	184	TRP	C-N	7.55	1.44	1.33
1	8a	39	MET	C-N	7.55	1.43	1.33
1	8F	85	PRO	CA-C	7.55	1.61	1.52
1	aT	221	VAL	CA-CB	7.55	1.62	1.54
1	bh	46	GLY	C-N	7.55	1.44	1.33
1	eA	164	TYR	CA-C	-7.55	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fJ	199	LYS	C-O	-7.55	1.15	1.24
1	fT	175	GLU	CA-CB	7.55	1.65	1.53
1	d	153	ILE	CA-CB	7.55	1.62	1.53
1	hx	153	ILE	CA-C	7.54	1.61	1.52
1	j8	130	TYR	CA-C	7.54	1.62	1.52
1	jk	125	PRO	CA-CB	-7.54	1.48	1.53
1	ly	59	VAL	CA-C	7.54	1.61	1.52
1	6q	108	THR	CA-CB	-7.54	1.42	1.53
1	dj	95	GLN	C-N	7.54	1.44	1.33
1	g4	152	ASP	CA-C	7.54	1.63	1.52
1	j	44	SER	N-CA	7.54	1.54	1.46
1	j	107	THR	CA-C	-7.54	1.43	1.52
1	Q	145	TYR	N-CA	-7.54	1.36	1.46
1	hZ	186	THR	C-N	7.54	1.43	1.33
1	iv	92	GLU	N-CA	-7.54	1.38	1.46
1	iZ	135	ILE	CA-CB	7.54	1.63	1.54
1	lm	3	VAL	CA-C	-7.54	1.44	1.52
1	ly	104	ILE	N-CA	-7.54	1.37	1.46
1	lG	141	ILE	C-N	7.54	1.43	1.33
1	lQ	130	TYR	CA-CB	7.54	1.65	1.53
1	3M	149	SER	CA-CB	7.54	1.65	1.53
1	5F	111	LEU	C-N	7.54	1.43	1.33
1	aj	77	ALA	N-CA	-7.54	1.37	1.46
1	ce	222	GLY	N-CA	7.54	1.55	1.45
1	ja	23	TRP	N-CA	7.54	1.55	1.46
1	k1	133	TRP	CA-C	7.54	1.62	1.52
1	2Z	162	ARG	CD-NE	7.54	1.56	1.46
1	4u	37	ILE	CA-CB	7.54	1.58	1.54
1	5n	104	ILE	N-CA	7.54	1.55	1.46
1	78	124	ILE	N-CA	7.54	1.53	1.46
1	8H	219	GLN	N-CA	-7.54	1.36	1.46
1	8J	31	ALA	N-CA	-7.54	1.36	1.46
1	aM	76	GLU	C-O	7.54	1.33	1.24
1	bB	192	GLN	CA-C	-7.54	1.42	1.52
1	eq	91	ILE	C-O	-7.54	1.16	1.24
1	f2	38	PRO	C-N	7.54	1.43	1.33
1	fQ	20	LEU	CA-C	7.54	1.62	1.52
1	jX	87	HIS	CA-C	7.54	1.62	1.52
1	kk	146	SER	CA-C	7.54	1.61	1.52
1	4z	180	GLU	CA-CB	7.54	1.65	1.53
1	6r	14	ALA	CA-C	7.54	1.62	1.52
1	6U	161	PHE	CA-CB	7.54	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a2	66	MET	C-N	7.54	1.43	1.33
1	ac	226	HIS	CA-C	7.54	1.62	1.52
1	g8	6	LEU	CA-C	7.54	1.61	1.52
1	hx	47	ALA	CA-C	7.54	1.62	1.52
1	hz	193	ASN	C-N	7.54	1.43	1.33
1	ih	153	ILE	CA-CB	7.54	1.62	1.53
1	jz	81	ASP	N-CA	-7.54	1.37	1.46
1	kb	105	ALA	C-N	7.54	1.43	1.33
1	3b	141	ILE	CA-CB	-7.54	1.45	1.54
1	62	191	VAL	N-CA	-7.54	1.37	1.46
1	73	170	LYS	N-CA	-7.54	1.37	1.46
1	7e	22	ALA	CA-C	7.54	1.62	1.52
1	aP	120	HIS	CD2-NE2	7.54	1.46	1.37
1	l	12	HIS	CG-ND1	-7.54	1.29	1.38
1	iF	86	VAL	CA-CB	7.54	1.63	1.54
1	ja	194	ALA	CA-C	-7.54	1.42	1.53
1	3U	28	GLU	CA-C	-7.54	1.45	1.53
1	3Y	123	PRO	N-CA	7.54	1.56	1.47
1	dG	79	GLU	CA-CB	7.54	1.65	1.53
1	jz	157	PRO	N-CA	-7.54	1.37	1.47
1	k2	124	ILE	CA-C	7.54	1.60	1.52
1	lM	219	GLN	CA-CB	7.54	1.66	1.53
1	2s	169	TYR	CA-C	7.54	1.62	1.52
1	3k	48	THR	CA-CB	7.54	1.65	1.53
1	9s	97	ARG	CA-CB	7.54	1.65	1.53
1	9s	146	SER	N-CA	7.54	1.54	1.46
1	9B	140	LYS	CA-CB	7.54	1.65	1.53
1	bL	84	HIS	ND1-CE1	7.54	1.40	1.32
1	cj	98	GLU	CA-C	-7.54	1.44	1.52
1	fx	183	ASN	CA-C	7.54	1.62	1.52
1	fI	184	TRP	N-CA	-7.54	1.37	1.46
1	kk	83	LEU	CA-CB	7.53	1.65	1.53
1	ln	197	ASP	CA-CB	7.53	1.65	1.53
1	4i	69	LEU	N-CA	-7.53	1.37	1.46
1	8L	11	VAL	CA-C	7.53	1.61	1.52
1	99	142	VAL	CA-CB	-7.53	1.44	1.54
1	c1	92	GLU	C-N	7.53	1.41	1.34
1	dM	52	LEU	CA-CB	7.53	1.65	1.53
1	eg	117	TRP	NE1-CE2	-7.53	1.29	1.37
1	z	152	ASP	CA-C	7.53	1.63	1.52
1	hB	119	THR	N-CA	7.53	1.55	1.46
1	jg	139	ASN	CA-CB	7.53	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fd	36	VAL	CA-CB	7.53	1.65	1.54
1	jG	215	MET	C-N	7.53	1.43	1.33
1	km	2	ILE	N-CA	7.53	1.54	1.46
1	kr	84	HIS	CA-CB	7.53	1.64	1.53
1	3D	207	PRO	CA-C	7.53	1.63	1.52
1	10	57	ASN	C-N	7.53	1.44	1.34
1	b5	226	HIS	CA-C	-7.53	1.43	1.53
1	d9	137	GLY	CA-C	-7.53	1.42	1.51
1	ds	18	ARG	CD-NE	7.53	1.56	1.46
1	dW	98	GLU	CA-C	7.53	1.60	1.52
1	f9	110	THR	CA-CB	7.53	1.65	1.53
1	fR	105	ALA	C-O	-7.53	1.14	1.24
1	l5	189	LEU	CA-C	7.53	1.62	1.52
1	1c	89	GLY	N-CA	7.53	1.55	1.44
1	dB	63	GLN	N-CA	-7.53	1.37	1.46
1	eH	122	PRO	N-CD	-7.53	1.37	1.47
1	h4	103	ASP	CA-C	7.53	1.62	1.52
1	21	153	ILE	CA-C	7.53	1.61	1.52
1	7J	37	ILE	CA-C	7.53	1.59	1.52
1	8h	142	VAL	CA-C	7.53	1.62	1.52
1	8J	65	ALA	CA-CB	7.53	1.65	1.53
1	8X	152	ASP	C-N	-7.53	1.23	1.33
1	15	104	ILE	CA-CB	-7.53	1.45	1.54
1	bE	13	GLN	N-CA	-7.53	1.36	1.46
1	fP	66	MET	CA-C	7.53	1.62	1.52
1	fR	37	ILE	N-CA	7.53	1.55	1.46
1	R	136	LEU	N-CA	7.53	1.55	1.46
1	1D	84	HIS	ND1-CE1	7.53	1.40	1.32
1	ho	62	HIS	CE1-NE2	7.53	1.40	1.32
1	ij	24	VAL	C-N	7.53	1.42	1.33
1	1P	226	HIS	C-N	7.53	1.44	1.33
1	2t	46	GLY	C-N	7.53	1.43	1.33
1	2V	92	GLU	N-CA	7.53	1.54	1.46
1	4v	42	ALA	CA-CB	7.53	1.65	1.53
1	4y	54	THR	N-CA	7.53	1.55	1.46
1	5z	226	HIS	N-CA	-7.53	1.40	1.47
1	5S	91	ILE	CA-C	7.53	1.62	1.52
1	5U	213	GLU	CA-C	7.53	1.62	1.52
1	7h	15	ILE	N-CA	7.53	1.55	1.46
1	7s	30	LYS	N-CA	7.53	1.53	1.46
1	8U	217	ALA	CA-C	7.53	1.62	1.52
1	9v	83	LEU	N-CA	-7.53	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aH	177	ALA	CA-C	-7.53	1.43	1.52
1	c2	55	MET	CA-C	7.53	1.62	1.52
1	cq	11	VAL	C-N	7.53	1.43	1.33
1	di	22	ALA	CA-CB	7.53	1.65	1.53
1	eI	12	HIS	ND1-CE1	7.53	1.40	1.32
1	eJ	124	ILE	CA-C	7.53	1.59	1.53
1	fn	96	MET	C-O	7.53	1.32	1.23
1	g7	211	LEU	CA-CB	7.53	1.65	1.53
1	gh	154	ARG	CA-CB	7.52	1.62	1.53
1	iO	15	ILE	C-N	-7.52	1.25	1.33
1	kE	87	HIS	CE1-NE2	7.52	1.40	1.32
1	4S	223	GLY	CA-C	7.52	1.62	1.51
1	5N	219	GLN	C-N	7.52	1.44	1.33
1	gx	35	GLU	N-CA	-7.52	1.37	1.46
1	hM	173	ARG	CD-NE	7.52	1.56	1.46
1	iq	4	GLN	CA-CB	7.52	1.65	1.53
1	iM	230	VAL	CA-C	7.52	1.61	1.52
1	2g	226	HIS	ND1-CE1	7.52	1.40	1.32
1	3L	195	ASN	CA-C	7.52	1.62	1.52
1	5u	165	VAL	CA-CB	-7.52	1.45	1.54
1	76	1	PRO	N-CD	7.52	1.58	1.47
1	9E	214	MET	CA-C	-7.52	1.42	1.52
1	9O	146	SER	CA-CB	7.52	1.66	1.53
1	az	229	ARG	CD-NE	7.52	1.56	1.46
1	bq	58	THR	C-N	7.52	1.43	1.33
1	bN	77	ALA	CA-C	7.52	1.62	1.52
1	dP	184	TRP	CA-CB	7.52	1.65	1.53
1	f4	138	LEU	C-N	7.52	1.43	1.33
1	fb	6	LEU	C-N	7.52	1.42	1.33
1	fp	204	ALA	CA-CB	7.52	1.65	1.53
1	7x	1	PRO	N-CD	7.52	1.58	1.47
1	f0	57	ASN	CA-C	7.52	1.62	1.52
1	le	27	VAL	N-CA	-7.52	1.37	1.46
1	lg	84	HIS	ND1-CE1	7.52	1.40	1.32
1	lo	214	MET	CA-CB	7.52	1.65	1.53
1	2D	153	ILE	CA-CB	7.52	1.64	1.54
1	2Q	29	GLU	CA-CB	7.52	1.65	1.53
1	2Q	69	LEU	C-N	7.52	1.43	1.33
1	4X	114	GLN	CA-C	-7.52	1.43	1.52
1	7s	23	TRP	CA-C	7.52	1.62	1.52
1	c8	30	LYS	CA-C	-7.52	1.42	1.52
1	cf	117	TRP	CA-C	7.52	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dh	36	VAL	N-CA	7.52	1.55	1.46
1	eM	125	PRO	CA-C	-7.52	1.46	1.53
1	fr	184	TRP	NE1-CE2	-7.52	1.29	1.37
1	t	12	HIS	ND1-CE1	7.52	1.40	1.32
1	gO	98	GLU	N-CA	-7.52	1.36	1.45
1	jO	208	ALA	CA-C	7.52	1.62	1.52
1	2m	67	GLN	N-CA	-7.52	1.37	1.46
1	3v	61	GLY	N-CA	7.52	1.54	1.45
1	4e	103	ASP	CA-C	7.52	1.62	1.52
1	8d	1	PRO	N-CA	7.52	1.58	1.47
1	bi	98	GLU	CA-C	-7.52	1.43	1.52
1	cy	12	HIS	ND1-CE1	7.52	1.40	1.32
1	cE	102	SER	CA-C	-7.52	1.43	1.52
1	cK	1	PRO	N-CA	7.52	1.58	1.47
1	cM	84	HIS	CA-CB	7.52	1.62	1.53
1	dK	10	MET	CA-CB	7.52	1.64	1.53
1	e7	18	ARG	CA-CB	7.52	1.65	1.53
1	s	226	HIS	ND1-CE1	7.52	1.40	1.32
1	8e	188	THR	N-CA	7.52	1.55	1.46
1	8M	206	GLY	N-CA	7.52	1.55	1.44
1	1v	37	ILE	CA-C	7.52	1.61	1.52
1	1L	117	TRP	NE1-CE2	-7.51	1.29	1.37
1	1P	18	ARG	N-CA	-7.51	1.37	1.46
1	jr	6	LEU	N-CA	7.51	1.55	1.46
1	jQ	4	GLN	CA-C	7.51	1.61	1.53
1	kq	129	ILE	CA-CB	7.51	1.63	1.54
1	2c	23	TRP	CA-C	7.51	1.62	1.52
1	7m	32	PHE	N-CA	-7.51	1.38	1.46
1	8b	226	HIS	ND1-CE1	7.51	1.40	1.32
1	93	167	ARG	NE-CZ	-7.51	1.24	1.33
1	98	31	ALA	N-CA	-7.51	1.36	1.46
1	19	120	HIS	CD2-NE2	7.51	1.46	1.37
1	dJ	182	LYS	CA-CB	-7.51	1.41	1.53
1	dR	65	ALA	C-N	-7.51	1.24	1.33
1	k	104	ILE	N-CA	7.51	1.55	1.46
1	D	102	SER	CA-CB	7.51	1.65	1.53
1	J	89	GLY	C-N	-7.51	1.24	1.33
1	3K	114	GLN	N-CA	7.51	1.55	1.46
1	5v	55	MET	CA-C	7.51	1.62	1.52
1	7B	126	VAL	CA-CB	7.51	1.63	1.54
1	g4	112	GLN	CA-CB	7.51	1.65	1.53
1	gc	9	GLN	CA-C	7.51	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h7	63	GLN	CA-C	-7.51	1.43	1.52
1	hK	168	PHE	CA-C	7.51	1.62	1.52
1	kH	52	LEU	CA-CB	7.51	1.65	1.53
1	3A	154	ARG	CA-C	-7.51	1.43	1.52
1	45	170	LYS	C-N	7.51	1.44	1.33
1	4M	22	ALA	CA-C	7.51	1.62	1.52
1	bl	117	TRP	C-N	7.51	1.43	1.33
1	bs	144	MET	N-CA	-7.51	1.36	1.46
1	c1	63	GLN	N-CA	-7.51	1.37	1.46
1	cl	229	ARG	CD-NE	7.51	1.56	1.46
1	el	45	GLU	CA-CB	7.51	1.64	1.53
1	1s	145	TYR	CA-CB	7.51	1.65	1.54
1	gs	121	ASN	CA-C	-7.51	1.46	1.52
1	k1	130	TYR	CA-C	7.51	1.62	1.52
1	3n	156	GLY	C-N	7.51	1.41	1.33
1	7V	150	ILE	C-N	7.51	1.44	1.33
1	14	164	TYR	N-CA	7.51	1.55	1.46
1	dA	28	GLU	CA-CB	7.51	1.65	1.53
1	dF	90	PRO	CA-C	7.51	1.61	1.52
1	dF	124	ILE	CA-C	-7.51	1.47	1.53
1	gQ	230	VAL	CA-CB	7.51	1.61	1.54
1	lr	226	HIS	CG-ND1	-7.51	1.29	1.38
1	a9	62	HIS	ND1-CE1	-7.51	1.25	1.32
1	at	117	TRP	NE1-CE2	-7.51	1.29	1.37
1	b3	4	GLN	CA-C	-7.51	1.42	1.52
1	ce	115	ILE	N-CA	-7.51	1.37	1.46
1	1o	104	ILE	CA-C	7.51	1.61	1.52
1	gV	98	GLU	C-N	7.51	1.42	1.33
1	1J	230	VAL	C-N	7.51	1.43	1.33
1	iE	58	THR	C-N	7.51	1.41	1.33
1	kM	45	GLU	CA-C	7.51	1.62	1.52
1	4z	62	HIS	N-CA	-7.51	1.36	1.46
1	4I	125	PRO	CA-CB	7.51	1.64	1.53
1	7s	182	LYS	CA-C	7.51	1.62	1.52
1	7W	60	GLY	CA-C	-7.51	1.44	1.52
1	8J	120	HIS	ND1-CE1	7.51	1.40	1.32
1	92	126	VAL	C-N	7.51	1.42	1.33
1	a6	74	ASN	CA-CB	7.51	1.65	1.53
1	at	50	GLN	C-N	7.51	1.43	1.33
1	f1	37	ILE	C-N	7.51	1.43	1.34
1	fY	49	PRO	CA-CB	-7.51	1.43	1.53
1	h	229	ARG	CZ-NH2	-7.51	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ke	133	TRP	NE1-CE2	-7.50	1.29	1.37
1	2e	226	HIS	ND1-CE1	7.50	1.40	1.32
1	4e	62	HIS	CA-CB	7.50	1.64	1.53
1	9L	3	VAL	N-CA	7.50	1.55	1.46
1	ax	12	HIS	N-CA	-7.50	1.37	1.46
1	de	181	VAL	CA-CB	7.50	1.63	1.54
1	dW	44	SER	N-CA	-7.50	1.36	1.46
1	eF	184	TRP	C-N	7.50	1.43	1.33
1	eU	27	VAL	CA-CB	-7.50	1.46	1.54
1	K	221	VAL	C-O	-7.50	1.15	1.24
1	1H	72	THR	C-N	7.50	1.43	1.33
1	hq	197	ASP	CA-C	7.50	1.62	1.52
1	kn	44	SER	N-CA	7.50	1.54	1.46
1	lc	221	VAL	C-N	7.50	1.44	1.33
1	lf	7	GLN	CA-CB	7.50	1.65	1.53
1	lg	145	TYR	CA-CB	7.50	1.65	1.53
1	2s	120	HIS	CG-ND1	7.50	1.46	1.38
1	3w	111	LEU	CA-CB	7.50	1.65	1.53
1	3V	149	SER	CA-CB	7.50	1.65	1.53
1	78	158	LYS	N-CA	7.50	1.55	1.46
1	cr	33	SER	CA-C	7.50	1.61	1.53
1	eL	36	VAL	N-CA	7.50	1.55	1.46
1	h6	15	ILE	CA-CB	-7.50	1.46	1.54
1	i2	133	TRP	NE1-CE2	-7.50	1.29	1.37
1	kv	86	VAL	C-N	7.50	1.43	1.33
1	kN	99	PRO	CA-C	7.50	1.59	1.52
1	4h	226	HIS	ND1-CE1	7.50	1.40	1.32
1	84	128	GLU	C-N	7.50	1.43	1.33
1	8P	55	MET	CA-CB	7.50	1.65	1.53
1	90	27	VAL	N-CA	-7.50	1.37	1.46
1	bQ	44	SER	C-N	7.50	1.43	1.33
1	cM	55	MET	CA-CB	7.50	1.65	1.53
1	dL	27	VAL	N-CA	-7.50	1.37	1.46
1	eC	3	VAL	CA-CB	-7.50	1.45	1.54
1	gr	24	VAL	CA-CB	-7.50	1.44	1.54
1	2o	45	GLU	CA-CB	7.50	1.64	1.53
1	3t	114	GLN	C-O	-7.50	1.15	1.24
1	6k	163	ASP	CA-C	7.50	1.62	1.52
1	6t	154	ARG	CD-NE	7.50	1.56	1.46
1	8f	151	LEU	CA-CB	7.50	1.66	1.53
1	ec	132	ARG	C-N	7.50	1.43	1.33
1	id	176	GLN	CA-C	-7.50	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iX	87	HIS	ND1-CE1	7.50	1.40	1.32
1	jl	164	TYR	CA-C	7.50	1.62	1.52
1	jp	84	HIS	CA-C	-7.50	1.42	1.52
1	jt	45	GLU	CA-C	7.50	1.63	1.52
1	jz	10	MET	C-N	7.50	1.40	1.33
1	jW	168	PHE	CA-CB	7.50	1.65	1.53
1	3u	108	THR	CA-C	-7.50	1.42	1.52
1	3E	161	PHE	N-CA	-7.50	1.37	1.46
1	5G	65	ALA	CA-C	-7.50	1.43	1.52
1	8g	75	GLU	C-N	7.50	1.43	1.33
1	9Z	33	SER	CA-C	7.50	1.60	1.53
1	bi	65	ALA	N-CA	7.50	1.55	1.46
1	ca	206	GLY	CA-C	7.50	1.62	1.51
1	dD	37	ILE	N-CA	-7.50	1.37	1.46
1	dO	156	GLY	C-N	7.50	1.42	1.33
1	jZ	131	LYS	CA-CB	7.50	1.65	1.53
1	kA	217	ALA	CA-C	7.50	1.62	1.52
1	2s	180	GLU	CA-CB	7.50	1.65	1.53
1	3T	173	ARG	CD-NE	7.50	1.56	1.46
1	43	43	LEU	CA-C	-7.50	1.43	1.52
1	6h	122	PRO	C-N	7.50	1.43	1.33
1	6Q	171	THR	N-CA	7.50	1.55	1.46
1	8q	150	ILE	CA-C	7.50	1.62	1.52
1	aV	115	ILE	CA-CB	-7.50	1.45	1.54
1	bB	204	ALA	CA-CB	7.50	1.65	1.53
1	bU	220	GLY	C-N	7.50	1.40	1.33
1	eE	79	GLU	CA-CB	7.50	1.65	1.53
1	a	134	ILE	CA-CB	7.50	1.63	1.54
1	1S	117	TRP	NE1-CE2	-7.50	1.29	1.37
1	ky	169	TYR	N-CA	-7.50	1.37	1.46
1	lj	35	GLU	CA-C	7.50	1.63	1.52
1	b9	209	ALA	C-N	7.50	1.43	1.33
1	db	14	ALA	C-N	7.50	1.42	1.33
1	eX	85	PRO	CA-CB	-7.50	1.48	1.53
1	h2	17	PRO	C-N	7.49	1.44	1.33
1	jx	90	PRO	CA-CB	7.49	1.63	1.53
1	2T	14	ALA	CA-C	-7.49	1.42	1.52
1	4R	114	GLN	N-CA	7.49	1.55	1.46
1	7k	136	LEU	CA-CB	7.49	1.65	1.53
1	bu	188	THR	CA-C	-7.49	1.47	1.52
1	bD	184	TRP	NE1-CE2	-7.49	1.29	1.37
1	dI	27	VAL	CA-C	7.49	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eg	21	ASN	N-CA	-7.49	1.36	1.46
1	1z	76	GLU	C-N	7.49	1.43	1.33
1	g	172	LEU	CA-C	7.49	1.62	1.52
1	hu	62	HIS	CE1-NE2	7.49	1.40	1.32
1	lK	67	GLN	CA-C	-7.49	1.42	1.52
1	8c	16	SER	CA-C	-7.49	1.42	1.52
1	dI	194	ALA	CA-C	7.49	1.62	1.52
1	eq	33	SER	C-O	-7.49	1.17	1.24
1	eO	62	HIS	CA-C	7.49	1.63	1.53
1	j5	205	LEU	C-N	7.49	1.44	1.33
1	kv	157	PRO	CA-CB	7.49	1.65	1.53
1	lh	135	ILE	CA-C	-7.49	1.43	1.52
1	2y	36	VAL	CA-C	7.49	1.64	1.52
1	2C	35	GLU	CA-CB	7.49	1.65	1.53
1	3V	84	HIS	C-N	-7.49	1.26	1.33
1	49	102	SER	C-N	7.49	1.44	1.33
1	4o	111	LEU	CA-C	7.49	1.62	1.52
1	5j	230	VAL	CA-CB	7.49	1.61	1.54
1	6p	78	ALA	CA-C	7.49	1.62	1.52
1	6x	12	HIS	ND1-CE1	7.49	1.40	1.32
1	8b	147	PRO	C-N	7.49	1.43	1.33
1	1d	1	PRO	N-CD	7.49	1.58	1.47
1	gp	60	GLY	CA-C	-7.49	1.41	1.51
1	iN	83	LEU	N-CA	7.49	1.55	1.46
1	lD	16	SER	CA-C	7.49	1.61	1.53
1	94	112	GLN	CA-CB	7.49	1.65	1.53
1	dt	39	MET	C-N	7.49	1.43	1.33
1	ea	117	TRP	NE1-CE2	-7.49	1.29	1.37
1	f6	161	PHE	C-N	7.49	1.43	1.33
1	f8	57	ASN	C-N	7.49	1.43	1.33
1	hX	111	LEU	N-CA	-7.49	1.36	1.46
1	hX	212	GLU	C-N	7.49	1.43	1.33
1	ju	22	ALA	CA-CB	7.49	1.65	1.53
1	lb	133	TRP	N-CA	-7.49	1.37	1.46
1	2A	59	VAL	C-N	7.49	1.42	1.33
1	3g	44	SER	N-CA	7.49	1.54	1.46
1	5L	82	ARG	CD-NE	7.49	1.56	1.46
1	8g	84	HIS	CA-CB	7.49	1.63	1.53
1	8z	84	HIS	N-CA	-7.49	1.39	1.46
1	8K	33	SER	C-N	7.49	1.40	1.33
1	8Q	33	SER	CA-C	7.49	1.62	1.53
1	ck	25	LYS	CA-CB	7.49	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hy	62	HIS	CA-CB	7.49	1.66	1.53
1	ku	33	SER	CA-CB	7.49	1.63	1.53
1	5f	15	ILE	CA-CB	7.49	1.61	1.54
1	5A	84	HIS	ND1-CE1	7.49	1.40	1.32
1	95	163	ASP	C-N	7.49	1.43	1.33
1	9c	175	GLU	N-CA	7.49	1.55	1.46
1	a1	230	VAL	CA-CB	-7.49	1.46	1.54
1	ay	226	HIS	C-N	7.49	1.43	1.33
1	bo	138	LEU	CA-CB	7.49	1.65	1.53
1	bu	79	GLU	C-N	7.49	1.44	1.33
1	bv	65	ALA	CA-C	-7.49	1.43	1.52
1	cK	132	ARG	CD-NE	7.49	1.56	1.46
1	1m	169	TYR	CA-C	7.49	1.62	1.52
1	f4	200	THR	N-CA	-7.49	1.37	1.46
1	fs	40	PHE	CA-CB	7.49	1.65	1.53
1	g	123	PRO	C-N	7.49	1.41	1.33
1	8	51	ASP	C-N	7.49	1.43	1.33
1	gJ	192	GLN	CA-CB	7.48	1.66	1.53
1	jE	84	HIS	C-N	7.48	1.43	1.33
1	5I	199	LYS	C-N	7.48	1.43	1.33
1	8D	62	HIS	CE1-NE2	7.48	1.40	1.32
1	9T	82	ARG	CD-NE	7.48	1.56	1.46
1	ap	64	ALA	CA-C	-7.48	1.43	1.52
1	c3	192	GLN	CA-C	7.48	1.62	1.52
1	er	88	ALA	N-CA	-7.48	1.36	1.46
1	f8	78	ALA	N-CA	-7.48	1.37	1.46
1	1x	180	GLU	C-N	7.48	1.43	1.33
1	s	176	GLN	CA-CB	7.48	1.64	1.53
1	gD	13	GLN	N-CA	-7.48	1.36	1.46
1	gL	38	PRO	C-N	7.48	1.43	1.33
1	h2	123	PRO	C-N	7.48	1.41	1.33
1	iO	37	ILE	CA-CB	-7.48	1.50	1.54
1	2f	47	ALA	N-CA	-7.48	1.36	1.46
1	5H	76	GLU	N-CA	7.48	1.55	1.46
1	65	45	GLU	N-CA	-7.48	1.37	1.46
1	ay	12	HIS	ND1-CE1	7.48	1.40	1.32
1	d7	85	PRO	CA-CB	-7.48	1.48	1.53
1	fv	221	VAL	CA-CB	-7.48	1.45	1.54
1	fC	198	CYS	N-CA	-7.48	1.37	1.46
1	g3	71	GLU	CA-C	-7.48	1.43	1.52
1	8	45	GLU	CA-C	7.48	1.63	1.52
1	gN	65	ALA	C-N	7.48	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iA	75	GLU	CA-C	7.48	1.62	1.52
1	iM	71	GLU	CA-CB	7.48	1.65	1.53
1	4U	62	HIS	CE1-NE2	7.48	1.40	1.32
1	5r	55	MET	CA-CB	7.48	1.65	1.53
1	6o	120	HIS	CE1-NE2	7.48	1.40	1.32
1	7p	112	GLN	N-CA	7.48	1.55	1.46
1	9Q	86	VAL	CA-C	-7.48	1.43	1.52
1	1c	142	VAL	CA-CB	-7.48	1.45	1.54
1	d3	24	VAL	CA-C	7.48	1.62	1.52
1	g0	45	GLU	N-CA	-7.48	1.36	1.46
1	M	130	TYR	C-N	7.48	1.43	1.33
1	hR	103	ASP	C-N	7.48	1.43	1.33
1	i7	53	ASN	CA-C	-7.48	1.43	1.52
1	43	210	THR	C-N	7.48	1.43	1.33
1	T	181	VAL	CA-C	-7.48	1.43	1.52
1	ln	218	CYS	CA-CB	7.48	1.63	1.53
1	lE	3	VAL	C-N	7.48	1.44	1.33
1	30	37	ILE	CA-C	7.48	1.60	1.52
1	6b	37	ILE	CA-C	7.48	1.59	1.52
1	6u	97	ARG	N-CA	7.48	1.55	1.45
1	8v	132	ARG	NE-CZ	7.48	1.41	1.33
1	9y	117	TRP	NE1-CE2	-7.48	1.29	1.37
1	f6	2	ILE	CA-C	7.48	1.61	1.52
1	k3	87	HIS	ND1-CE1	7.48	1.40	1.32
1	2m	94	GLY	C-O	7.48	1.31	1.24
1	4K	124	ILE	N-CA	-7.48	1.40	1.46
1	7X	168	PHE	CA-C	7.48	1.62	1.52
1	8Z	127	GLY	CA-C	7.48	1.60	1.52
1	9w	37	ILE	CA-C	7.48	1.58	1.52
1	bH	205	LEU	CA-C	7.48	1.62	1.52
1	ea	121	ASN	CA-C	7.48	1.58	1.52
1	eO	100	ARG	CD-NE	7.48	1.56	1.46
1	F	37	ILE	CA-C	7.48	1.59	1.52
1	i7	124	ILE	N-CA	7.47	1.52	1.46
1	iS	104	ILE	CA-C	-7.47	1.43	1.52
1	jd	208	ALA	N-CA	-7.47	1.37	1.46
1	k8	195	ASN	CA-C	7.47	1.60	1.53
1	kg	214	MET	CA-C	7.47	1.62	1.52
1	3O	153	ILE	CA-CB	7.47	1.63	1.54
1	4S	120	HIS	CE1-NE2	-7.47	1.25	1.32
1	7f	173	ARG	CA-CB	7.47	1.65	1.53
1	7Y	148	THR	CA-C	-7.47	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8C	40	PHE	CA-C	-7.47	1.43	1.52
1	d4	86	VAL	N-CA	7.47	1.55	1.46
1	db	196	PRO	C-N	7.47	1.43	1.33
1	em	74	ASN	CA-CB	7.47	1.65	1.53
1	fu	184	TRP	NE1-CE2	-7.47	1.29	1.37
1	gp	137	GLY	CA-C	-7.47	1.43	1.52
1	hC	95	GLN	CA-C	-7.47	1.43	1.52
1	jj	199	LYS	C-N	7.47	1.43	1.33
1	kt	134	ILE	C-N	7.47	1.43	1.33
1	kY	217	ALA	N-CA	-7.47	1.35	1.45
1	2G	120	HIS	ND1-CE1	7.47	1.40	1.32
1	30	138	LEU	CA-C	7.47	1.62	1.52
1	4T	80	TRP	N-CA	-7.47	1.36	1.46
1	7c	103	ASP	C-N	7.47	1.43	1.33
1	7i	12	HIS	CD2-NE2	7.47	1.46	1.37
1	7l	146	SER	CA-CB	7.47	1.62	1.53
1	Z	209	ALA	CA-CB	7.47	1.65	1.53
1	ag	18	ARG	CA-C	7.47	1.62	1.52
1	b6	131	LYS	N-CA	-7.47	1.37	1.46
1	cd	143	ARG	CD-NE	7.47	1.56	1.46
1	1d	205	LEU	CA-C	-7.47	1.43	1.52
1	fo	10	MET	CA-CB	7.47	1.66	1.53
1	p	33	SER	CA-CB	7.47	1.63	1.54
1	j8	91	ILE	C-O	-7.47	1.15	1.23
1	jR	15	ILE	CA-C	-7.47	1.44	1.52
1	24	151	LEU	CA-C	7.47	1.62	1.52
1	6l	187	GLU	CA-C	7.47	1.62	1.52
1	a7	194	ALA	C-N	7.47	1.44	1.33
1	ac	97	ARG	CD-NE	7.47	1.56	1.46
1	aw	32	PHE	CA-CB	7.47	1.66	1.53
1	aU	142	VAL	CA-C	7.47	1.62	1.52
1	b0	70	LYS	CA-CB	7.47	1.65	1.53
1	fa	136	LEU	C-N	7.47	1.43	1.33
1	hl	40	PHE	CA-C	7.47	1.62	1.52
1	1P	143	ARG	CA-CB	7.47	1.65	1.53
1	4O	75	GLU	CA-CB	7.47	1.65	1.53
1	6M	97	ARG	CA-C	-7.47	1.43	1.53
1	8B	59	VAL	CA-CB	-7.47	1.45	1.54
1	aE	62	HIS	CE1-NE2	7.47	1.40	1.32
1	cM	96	MET	C-N	7.47	1.43	1.33
1	gd	159	GLU	CA-C	7.47	1.62	1.52
1	3H	54	THR	N-CA	7.47	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7X	204	ALA	CA-C	7.47	1.62	1.52
1	aa	184	TRP	NE1-CE2	-7.47	1.29	1.37
1	dh	80	TRP	CA-CB	7.47	1.65	1.53
1	p	11	VAL	CA-CB	-7.47	1.45	1.54
1	gn	92	GLU	N-CA	7.47	1.54	1.46
1	gW	97	ARG	CA-C	7.47	1.62	1.52
1	1I	132	ARG	C-N	7.47	1.43	1.33
1	hK	139	ASN	CA-CB	7.47	1.65	1.53
1	iE	135	ILE	C-O	7.47	1.32	1.24
1	la	135	ILE	C-N	7.47	1.44	1.34
1	lp	206	GLY	C-N	7.47	1.41	1.34
1	29	95	GLN	CA-CB	7.47	1.65	1.53
1	2m	225	GLY	CA-C	-7.47	1.43	1.52
1	2z	43	LEU	N-CA	7.47	1.55	1.46
1	2H	46	GLY	C-O	7.47	1.29	1.24
1	3H	127	GLY	C-N	7.47	1.43	1.33
1	5d	61	GLY	C-N	7.47	1.44	1.33
1	5m	222	GLY	CA-C	7.47	1.62	1.51
1	6O	124	ILE	CA-C	-7.47	1.47	1.53
1	84	50	GLN	CA-C	7.47	1.62	1.52
1	87	134	ILE	C-O	-7.47	1.15	1.24
1	8m	193	ASN	CA-CB	7.47	1.65	1.53
1	8J	166	ASP	CA-C	7.47	1.62	1.52
1	bQ	228	ALA	N-CA	7.47	1.55	1.46
1	ck	152	ASP	C-N	7.47	1.43	1.33
1	dX	101	GLY	N-CA	7.47	1.55	1.45
1	1B	37	ILE	CA-C	7.47	1.59	1.52
1	ij	219	GLN	CA-CB	7.46	1.62	1.53
1	jh	154	ARG	CA-CB	7.46	1.62	1.52
1	jo	133	TRP	N-CA	7.46	1.55	1.46
1	jx	79	GLU	C-O	-7.46	1.15	1.24
1	jY	188	THR	CA-C	7.46	1.56	1.52
1	ko	49	PRO	CA-CB	7.46	1.64	1.53
1	kP	99	PRO	CA-C	7.46	1.60	1.52
1	2A	14	ALA	N-CA	-7.46	1.36	1.46
1	3b	99	PRO	CA-CB	-7.46	1.46	1.54
1	5v	77	ALA	CA-CB	7.46	1.65	1.53
1	76	74	ASN	N-CA	-7.46	1.37	1.46
1	7G	91	ILE	N-CA	7.46	1.55	1.46
1	am	100	ARG	C-N	7.46	1.43	1.33
1	b1	159	GLU	CA-C	7.46	1.61	1.52
1	g	81	ASP	CA-C	7.46	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ha	112	GLN	CA-C	7.46	1.62	1.52
1	hO	213	GLU	N-CA	7.46	1.55	1.46
1	4g	40	PHE	CA-C	7.46	1.62	1.52
1	6U	8	GLY	N-CA	7.46	1.53	1.45
1	7s	59	VAL	N-CA	-7.46	1.37	1.46
1	7y	32	PHE	CA-CB	7.46	1.63	1.53
1	93	126	VAL	CA-CB	-7.46	1.43	1.54
1	c9	64	ALA	C-N	7.46	1.43	1.33
1	dV	229	ARG	C-N	7.46	1.42	1.33
1	fx	84	HIS	CE1-NE2	7.46	1.40	1.32
1	gm	16	SER	CA-C	7.46	1.61	1.53
1	hk	140	LYS	N-CA	-7.46	1.36	1.46
1	1M	174	ALA	CA-C	7.46	1.62	1.52
1	i4	117	TRP	CA-C	-7.46	1.43	1.52
1	iA	146	SER	CA-C	7.46	1.60	1.53
1	jb	6	LEU	C-N	7.46	1.44	1.33
1	jV	10	MET	N-CA	-7.46	1.36	1.45
1	lf	43	LEU	N-CA	7.46	1.55	1.46
1	5Q	189	LEU	CA-C	-7.46	1.42	1.52
1	7i	81	ASP	CA-C	7.46	1.62	1.52
1	9V	204	ALA	C-N	7.46	1.43	1.33
1	eW	84	HIS	ND1-CE1	7.46	1.40	1.32
1	fU	63	GLN	CA-CB	7.46	1.66	1.53
1	ko	183	ASN	N-CA	7.46	1.55	1.46
1	lc	189	LEU	CA-CB	7.46	1.65	1.53
1	54	12	HIS	CG-ND1	-7.46	1.30	1.38
1	59	73	ILE	CA-CB	-7.46	1.45	1.54
1	5L	74	ASN	N-CA	7.46	1.55	1.46
1	bM	136	LEU	CA-C	7.46	1.62	1.52
1	gO	33	SER	C-N	-7.46	1.26	1.34
1	hg	105	ALA	C-N	7.46	1.43	1.33
1	hz	84	HIS	ND1-CE1	7.46	1.40	1.32
1	hK	99	PRO	CA-C	-7.46	1.45	1.52
1	1V	37	ILE	CA-CB	7.46	1.63	1.54
1	jP	93	PRO	CA-CB	7.46	1.64	1.53
1	kM	70	LYS	N-CA	7.46	1.55	1.46
1	2y	142	VAL	CA-C	7.46	1.62	1.52
1	6o	147	PRO	CA-C	7.46	1.59	1.52
1	aI	37	ILE	CA-CB	7.46	1.58	1.54
1	ba	163	ASP	N-CA	-7.46	1.37	1.46
1	1f	39	MET	CA-CB	7.46	1.65	1.53
1	dk	217	ALA	C-N	7.46	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eu	37	ILE	CA-CB	-7.46	1.50	1.54
1	1s	84	HIS	CA-CB	7.46	1.63	1.53
1	f5	87	HIS	CE1-NE2	7.46	1.40	1.32
1	fr	32	PHE	CA-CB	7.46	1.62	1.52
1	hm	37	ILE	CA-CB	-7.46	1.50	1.54
1	1N	36	VAL	CA-CB	-7.46	1.44	1.54
1	i7	84	HIS	CA-CB	7.46	1.62	1.53
1	3i	50	GLN	C-N	7.46	1.43	1.33
1	5O	73	ILE	CA-C	7.46	1.62	1.52
1	8p	107	THR	CA-C	-7.46	1.43	1.52
1	8x	3	VAL	CA-C	7.46	1.61	1.52
1	cZ	175	GLU	CA-CB	7.46	1.62	1.53
1	e6	184	TRP	NE1-CE2	-7.46	1.29	1.37
1	eo	125	PRO	CA-C	7.46	1.61	1.53
1	fk	59	VAL	CA-C	7.46	1.61	1.52
1	H	172	LEU	N-CA	-7.46	1.37	1.46
1	ld	21	ASN	C-N	7.46	1.43	1.33
1	2m	87	HIS	CB-CG	7.46	1.60	1.50
1	2o	90	PRO	C-N	7.46	1.43	1.33
1	Y	163	ASP	N-CA	-7.46	1.37	1.46
1	cA	212	GLU	CA-C	7.46	1.62	1.52
1	f3	11	VAL	CA-CB	-7.46	1.45	1.54
1	x	62	HIS	CB-CG	7.46	1.60	1.50
1	5	1	PRO	N-CA	7.46	1.58	1.47
1	gp	167	ARG	CD-NE	7.45	1.56	1.46
1	kJ	113	GLU	N-CA	-7.45	1.37	1.46
1	kW	152	ASP	N-CA	-7.45	1.37	1.46
1	lo	226	HIS	ND1-CE1	7.45	1.40	1.32
1	3c	43	LEU	CA-CB	7.45	1.67	1.53
1	7w	56	LEU	CA-C	7.45	1.62	1.52
1	8l	26	VAL	CA-CB	-7.45	1.45	1.54
1	a0	12	HIS	ND1-CE1	7.45	1.40	1.32
1	af	71	GLU	CA-C	7.45	1.62	1.52
1	as	32	PHE	N-CA	-7.45	1.37	1.46
1	bs	12	HIS	CA-C	-7.45	1.43	1.52
1	bF	149	SER	C-N	7.45	1.42	1.34
1	e1	30	LYS	C-O	-7.45	1.15	1.24
1	fj	124	ILE	N-CA	7.45	1.51	1.46
1	6j	109	SER	N-CA	7.45	1.54	1.46
1	gq	188	THR	CA-C	7.45	1.62	1.52
1	1F	62	HIS	CD2-NE2	7.45	1.46	1.37
1	iH	105	ALA	CA-CB	7.45	1.66	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jD	185	MET	CA-C	7.45	1.62	1.52
1	ks	113	GLU	N-CA	-7.45	1.37	1.46
1	lw	88	ALA	CA-C	-7.45	1.43	1.53
1	2S	145	TYR	CA-C	7.45	1.59	1.52
1	48	189	LEU	N-CA	-7.45	1.37	1.46
1	49	81	ASP	N-CA	-7.45	1.36	1.46
1	4e	212	GLU	N-CA	7.45	1.55	1.46
1	6t	68	MET	C-N	7.45	1.43	1.33
1	7C	124	ILE	CA-CB	7.45	1.61	1.53
1	8k	124	ILE	N-CA	-7.45	1.40	1.46
1	8F	138	LEU	CA-CB	7.45	1.65	1.53
1	aH	39	MET	N-CA	-7.45	1.37	1.46
1	bU	4	GLN	CA-C	7.45	1.63	1.53
1	fS	170	LYS	N-CA	-7.45	1.36	1.46
1	gX	218	CYS	CA-C	7.45	1.62	1.52
1	hp	102	SER	CA-C	7.45	1.62	1.52
1	1N	96	MET	CA-C	7.45	1.62	1.52
1	ih	156	GLY	N-CA	7.45	1.54	1.44
1	ij	62	HIS	C-N	7.45	1.43	1.33
1	kU	129	ILE	CA-C	7.45	1.61	1.52
1	ld	132	ARG	CA-C	7.45	1.62	1.52
1	lA	2	ILE	CA-C	7.45	1.60	1.53
1	5C	155	GLN	CA-CB	7.45	1.63	1.53
1	8R	72	THR	C-N	7.45	1.43	1.33
1	96	17	PRO	CA-CB	7.45	1.64	1.53
1	aI	149	SER	C-N	7.45	1.42	1.33
1	bw	184	TRP	CA-CB	7.45	1.65	1.53
1	f0	33	SER	CA-CB	7.45	1.64	1.53
1	f3	70	LYS	C-N	7.45	1.43	1.33
1	fI	203	LYS	N-CA	-7.45	1.37	1.46
1	fY	87	HIS	ND1-CE1	7.45	1.40	1.32
1	g7	88	ALA	CA-C	7.45	1.62	1.52
1	gu	200	THR	N-CA	-7.45	1.36	1.46
1	3x	174	ALA	CA-C	7.45	1.62	1.52
1	7G	9	GLN	C-N	7.45	1.44	1.33
1	9G	125	PRO	CA-C	7.45	1.61	1.53
1	1j	178	SER	CA-C	7.45	1.62	1.52
1	1G	94	GLY	CA-C	-7.45	1.41	1.51
1	hx	188	THR	CA-CB	7.45	1.65	1.53
1	iz	37	ILE	C-O	7.45	1.30	1.24
1	iG	30	LYS	CA-C	7.45	1.59	1.52
1	k4	24	VAL	N-CA	-7.45	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kM	195	ASN	CA-CB	7.45	1.63	1.53
1	cG	182	LYS	C-O	-7.45	1.15	1.24
1	cW	85	PRO	CA-C	7.45	1.61	1.52
1	dV	174	ALA	CA-C	7.45	1.62	1.52
1	1u	90	PRO	C-N	7.45	1.41	1.33
1	i	136	LEU	CA-C	7.45	1.62	1.52
1	4	167	ARG	CD-NE	7.45	1.56	1.46
1	iy	50	GLN	CA-C	7.44	1.62	1.52
1	2j	84	HIS	ND1-CE1	7.44	1.40	1.32
1	3B	100	ARG	CA-C	7.44	1.63	1.53
1	3H	160	PRO	CA-CB	7.44	1.64	1.53
1	5c	158	LYS	CA-C	-7.44	1.42	1.52
1	bq	50	GLN	N-CA	7.44	1.54	1.46
1	eO	184	TRP	NE1-CE2	-7.44	1.29	1.37
1	gR	22	ALA	N-CA	-7.44	1.37	1.46
1	2s	137	GLY	CA-C	7.44	1.60	1.52
1	3D	82	ARG	CD-NE	7.44	1.56	1.46
1	51	84	HIS	CA-CB	7.44	1.63	1.53
1	8h	103	ASP	CA-C	7.44	1.62	1.52
1	aX	202	LEU	N-CA	7.44	1.55	1.46
1	bT	124	ILE	CA-CB	-7.44	1.46	1.53
1	dJ	175	GLU	C-N	7.44	1.43	1.33
1	fR	133	TRP	C-N	7.44	1.43	1.33
1	i8	167	ARG	N-CA	-7.44	1.37	1.46
1	iq	151	LEU	CA-CB	7.44	1.65	1.53
1	lr	199	LYS	N-CA	7.44	1.55	1.46
1	lu	186	THR	C-N	7.44	1.44	1.33
1	lB	87	HIS	CE1-NE2	7.44	1.40	1.32
1	4t	108	THR	CA-CB	7.44	1.65	1.54
1	4z	180	GLU	C-N	7.44	1.43	1.33
1	5t	21	ASN	CA-CB	7.44	1.65	1.53
1	8Z	37	ILE	C-N	7.44	1.43	1.34
1	9r	62	HIS	CE1-NE2	7.44	1.40	1.32
1	9Z	216	THR	N-CA	7.44	1.56	1.45
1	aO	37	ILE	CA-CB	-7.44	1.50	1.54
1	bt	52	LEU	CA-C	7.44	1.62	1.52
1	bR	162	ARG	CD-NE	7.44	1.56	1.46
1	cr	183	ASN	CA-C	-7.44	1.43	1.52
1	5	65	ALA	CA-CB	7.44	1.65	1.53
1	gA	154	ARG	N-CA	7.44	1.55	1.46
1	j9	121	ASN	CA-C	7.44	1.58	1.52
1	kM	149	SER	N-CA	7.44	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	30	63	GLN	C-N	7.44	1.43	1.33
1	38	177	ALA	C-N	7.44	1.43	1.33
1	7E	30	LYS	CA-CB	7.44	1.64	1.53
1	bX	147	PRO	CA-C	7.44	1.63	1.52
1	d8	84	HIS	CG-CD2	-7.44	1.27	1.35
1	fi	140	LYS	CA-C	7.44	1.62	1.52
1	h6	221	VAL	CA-C	-7.44	1.44	1.52
1	k2	228	ALA	CA-C	-7.44	1.42	1.52
1	lc	174	ALA	N-CA	-7.44	1.36	1.46
1	ll	30	LYS	N-CA	-7.44	1.37	1.46
1	33	32	PHE	CA-CB	7.44	1.63	1.53
1	3f	189	LEU	N-CA	7.44	1.55	1.46
1	3h	147	PRO	CA-C	7.44	1.64	1.52
1	aX	148	THR	CA-C	7.44	1.62	1.52
1	cp	80	TRP	CA-CB	7.44	1.65	1.53
1	cE	133	TRP	N-CA	-7.44	1.37	1.46
1	x	146	SER	CA-C	7.44	1.61	1.52
1	i7	86	VAL	CA-CB	-7.44	1.46	1.54
1	3s	125	PRO	CA-CB	7.44	1.60	1.53
1	5R	33	SER	C-N	7.44	1.42	1.33
1	86	220	GLY	N-CA	7.44	1.51	1.44
1	e6	22	ALA	CA-C	-7.44	1.43	1.52
1	gt	187	GLU	N-CA	-7.43	1.37	1.46
1	gK	96	MET	N-CA	-7.43	1.36	1.45
1	gO	130	TYR	CA-CB	7.43	1.64	1.53
1	hS	37	ILE	CA-C	7.43	1.61	1.52
1	jh	169	TYR	CA-C	-7.43	1.42	1.52
1	3k	141	ILE	N-CA	7.43	1.55	1.46
1	49	1	PRO	N-CD	7.43	1.58	1.47
1	4l	12	HIS	C-N	7.43	1.43	1.33
1	5c	12	HIS	ND1-CE1	7.43	1.40	1.32
1	7b	82	ARG	CD-NE	7.43	1.56	1.46
1	7w	220	GLY	C-N	7.43	1.41	1.33
1	cA	81	ASP	CA-CB	7.43	1.65	1.53
1	1l	194	ALA	CA-C	7.43	1.63	1.53
1	eY	26	VAL	C-N	7.43	1.43	1.33
1	fh	59	VAL	CA-C	-7.43	1.44	1.53
1	1H	44	SER	CA-CB	7.43	1.63	1.53
1	1J	25	LYS	C-N	7.43	1.43	1.33
1	hG	113	GLU	C-N	7.43	1.43	1.33
1	kz	39	MET	CA-CB	7.43	1.65	1.53
1	42	135	ILE	CA-CB	-7.43	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8T	102	SER	CA-C	7.43	1.62	1.52
1	92	13	GLN	N-CA	7.43	1.55	1.45
1	9h	141	ILE	C-N	7.43	1.42	1.33
1	aS	41	SER	CA-CB	7.43	1.64	1.53
1	bt	58	THR	CA-C	7.43	1.62	1.52
1	c9	118	MET	N-CA	7.43	1.55	1.46
1	d6	11	VAL	CA-C	7.43	1.62	1.52
1	fS	81	ASP	C-N	7.43	1.44	1.33
1	n	199	LYS	CA-CB	7.43	1.64	1.53
1	q	144	MET	N-CA	-7.43	1.36	1.46
1	gz	10	MET	CA-C	-7.43	1.44	1.53
1	jM	62	HIS	CE1-NE2	7.43	1.40	1.32
1	kX	128	GLU	N-CA	-7.43	1.37	1.46
1	81	213	GLU	N-CA	-7.43	1.37	1.46
1	ee	200	THR	C-N	7.43	1.43	1.33
1	gb	199	LYS	CA-CB	7.43	1.64	1.53
1	jt	185	MET	CA-C	-7.43	1.43	1.52
1	k2	143	ARG	CA-C	7.43	1.62	1.52
1	ks	184	TRP	CA-C	-7.43	1.42	1.52
1	2C	219	GLN	CA-C	7.43	1.62	1.52
1	4E	83	LEU	C-N	7.43	1.43	1.33
1	60	203	LYS	CA-C	7.43	1.62	1.52
1	7i	120	HIS	CA-C	7.43	1.63	1.53
1	df	86	VAL	CA-CB	-7.43	1.45	1.54
1	fr	125	PRO	CA-C	7.43	1.61	1.53
1	fD	55	MET	CA-C	-7.43	1.43	1.52
1	P	121	ASN	CA-C	-7.43	1.44	1.52
1	1J	24	VAL	CA-C	-7.43	1.43	1.52
1	2T	69	LEU	CA-C	-7.43	1.43	1.52
1	4g	191	VAL	CA-CB	-7.43	1.44	1.54
1	6P	182	LYS	CA-C	7.43	1.62	1.52
1	9t	16	SER	CA-C	7.43	1.61	1.53
1	ak	129	ILE	C-N	7.43	1.43	1.33
1	1h	199	LYS	C-N	7.43	1.43	1.33
1	dh	125	PRO	CA-CB	7.43	1.58	1.53
1	gJ	130	TYR	CA-C	7.43	1.62	1.52
1	iL	223	GLY	C-N	-7.43	1.26	1.33
1	iN	204	ALA	CA-C	7.43	1.62	1.52
1	kE	133	TRP	CA-CB	7.43	1.64	1.53
1	29	73	ILE	N-CA	-7.43	1.38	1.46
1	2b	75	GLU	CA-C	7.43	1.62	1.52
1	2X	76	GLU	C-O	-7.43	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	41	21	ASN	CA-CB	7.43	1.64	1.53
1	4r	69	LEU	N-CA	-7.43	1.37	1.46
1	5h	23	TRP	CA-CB	7.43	1.64	1.53
1	an	153	ILE	CA-CB	7.43	1.62	1.54
1	az	226	HIS	ND1-CE1	7.43	1.40	1.32
1	cR	178	SER	C-N	7.43	1.43	1.33
1	1k	83	LEU	CA-C	-7.43	1.43	1.52
1	dz	42	ALA	CA-CB	7.43	1.64	1.53
1	dA	84	HIS	ND1-CE1	7.43	1.40	1.32
1	e8	80	TRP	CA-CB	7.43	1.64	1.53
1	fi	75	GLU	C-O	-7.43	1.15	1.24
1	gl	15	ILE	CA-C	7.42	1.62	1.52
1	hv	219	GLN	CA-C	7.42	1.62	1.52
1	io	182	LYS	CA-CB	7.42	1.64	1.53
1	lb	172	LEU	CA-CB	7.42	1.64	1.53
1	le	44	SER	CA-C	-7.42	1.42	1.52
1	61	201	ILE	CA-C	7.42	1.62	1.52
1	9n	91	ILE	N-CA	7.42	1.55	1.46
1	aV	77	ALA	CA-C	-7.42	1.43	1.52
1	dq	143	ARG	NE-CZ	-7.42	1.24	1.33
1	dS	213	GLU	N-CA	-7.42	1.37	1.46
1	g5	26	VAL	CA-CB	-7.42	1.46	1.54
1	i6	40	PHE	C-N	7.42	1.43	1.33
1	2a	90	PRO	CA-C	7.42	1.61	1.52
1	2c	177	ALA	C-N	7.42	1.43	1.33
1	7f	206	GLY	N-CA	7.42	1.56	1.44
1	d8	62	HIS	CD2-NE2	7.42	1.46	1.37
1	gv	113	GLU	C-N	7.42	1.43	1.33
1	gC	166	ASP	CA-CB	7.42	1.65	1.53
1	hs	217	ALA	N-CA	-7.42	1.36	1.45
1	jR	160	PRO	CA-CB	7.42	1.64	1.53
1	ln	202	LEU	CA-C	7.42	1.62	1.52
1	lP	226	HIS	CA-CB	7.42	1.65	1.53
1	2R	64	ALA	N-CA	7.42	1.55	1.46
1	32	23	TRP	CA-C	-7.42	1.42	1.52
1	3o	167	ARG	CD-NE	7.42	1.56	1.46
1	5t	18	ARG	C-N	7.42	1.43	1.33
1	79	193	ASN	CA-C	-7.42	1.45	1.53
1	7F	226	HIS	ND1-CE1	7.42	1.40	1.32
1	8a	6	LEU	CA-C	-7.42	1.42	1.52
1	1c	84	HIS	CD2-NE2	7.42	1.46	1.37
1	1q	71	GLU	CA-C	7.42	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	km	91	ILE	CA-C	7.42	1.61	1.52
1	kr	86	VAL	CA-C	7.42	1.62	1.52
1	kx	145	TYR	N-CA	-7.42	1.36	1.46
1	25	50	GLN	N-CA	-7.42	1.37	1.46
1	lj	17	PRO	CA-C	7.42	1.64	1.52
1	3n	153	ILE	CA-C	-7.42	1.46	1.53
1	7f	163	ASP	N-CA	-7.42	1.36	1.46
1	9Z	15	ILE	C-N	7.42	1.44	1.33
1	bS	9	GLN	CA-CB	7.42	1.64	1.53
1	dM	91	ILE	CA-C	-7.42	1.43	1.52
1	dN	192	GLN	N-CA	-7.42	1.36	1.46
1	gL	184	TRP	CA-CB	7.42	1.64	1.53
1	jj	206	GLY	N-CA	7.42	1.54	1.44
1	2d	225	GLY	CA-C	-7.42	1.41	1.51
1	4P	171	THR	CA-C	7.42	1.62	1.52
1	77	168	PHE	CA-C	7.42	1.62	1.52
1	7E	37	ILE	CA-C	-7.42	1.46	1.52
1	7L	189	LEU	N-CA	-7.42	1.37	1.46
1	8x	187	GLU	C-N	7.42	1.44	1.33
1	9L	138	LEU	C-N	7.42	1.42	1.33
1	aM	87	HIS	ND1-CE1	7.42	1.40	1.32
1	bq	90	PRO	CA-C	7.42	1.61	1.52
1	bX	131	LYS	C-O	-7.42	1.15	1.24
1	c4	226	HIS	CG-ND1	7.42	1.46	1.38
1	cL	191	VAL	CA-C	-7.42	1.44	1.52
1	dw	129	ILE	C-N	7.42	1.43	1.33
1	dX	23	TRP	NE1-CE2	-7.42	1.29	1.37
1	ev	135	ILE	CA-CB	-7.42	1.45	1.54
1	fb	198	CYS	CA-C	7.42	1.62	1.52
1	fs	99	PRO	CA-CB	7.42	1.63	1.53
1	fC	116	GLY	CA-C	-7.42	1.44	1.52
1	fJ	90	PRO	N-CA	-7.42	1.38	1.46
1	4	140	LYS	CA-C	-7.42	1.43	1.52
1	l4	120	HIS	ND1-CE1	7.42	1.40	1.32
1	lJ	129	ILE	CA-C	-7.42	1.43	1.52
1	lP	226	HIS	ND1-CE1	7.42	1.40	1.32
1	3R	124	ILE	N-CA	7.42	1.52	1.46
1	4r	226	HIS	ND1-CE1	7.42	1.40	1.32
1	16	1	PRO	N-CD	7.42	1.58	1.47
1	dX	131	LYS	CA-CB	7.42	1.64	1.53
1	ej	80	TRP	NE1-CE2	-7.42	1.29	1.37
1	et	90	PRO	CA-C	7.42	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fB	78	ALA	CA-C	-7.42	1.42	1.52
1	L	154	ARG	CD-NE	7.42	1.56	1.46
1	1L	138	LEU	CA-CB	7.42	1.65	1.53
1	iV	5	ASN	CA-CB	7.42	1.63	1.53
1	jl	46	GLY	N-CA	7.42	1.54	1.45
1	l9	137	GLY	CA-C	7.42	1.60	1.52
1	6D	176	GLN	C-N	7.42	1.43	1.33
1	cv	51	ASP	CA-C	7.42	1.62	1.52
1	1n	22	ALA	N-CA	7.42	1.55	1.46
1	ec	105	ALA	CA-C	7.42	1.62	1.52
1	ef	120	HIS	CE1-NE2	-7.42	1.25	1.32
1	eY	163	ASP	CA-C	7.42	1.62	1.52
1	hb	169	TYR	C-N	7.41	1.43	1.33
1	jq	220	GLY	N-CA	7.41	1.55	1.45
1	kn	125	PRO	CA-C	7.41	1.62	1.53
1	6B	50	GLN	CA-C	7.41	1.62	1.52
1	7b	188	THR	CA-C	-7.41	1.44	1.52
1	7G	39	MET	N-CA	-7.41	1.37	1.46
1	18	53	ASN	CA-CB	7.41	1.65	1.53
1	di	25	LYS	N-CA	-7.41	1.37	1.46
1	L	202	LEU	CA-CB	7.41	1.65	1.53
1	O	176	GLN	CA-C	7.41	1.62	1.53
1	5	205	LEU	N-CA	7.41	1.55	1.46
1	3R	1	PRO	N-CA	7.41	1.58	1.47
1	76	117	TRP	CA-CB	7.41	1.65	1.53
1	84	92	GLU	CA-C	7.41	1.61	1.53
1	8X	22	ALA	CA-C	-7.41	1.43	1.52
1	9N	86	VAL	C-N	7.41	1.43	1.33
1	1x	85	PRO	N-CA	-7.41	1.38	1.47
1	1A	40	PHE	C-N	7.41	1.43	1.33
1	1G	120	HIS	ND1-CE1	7.41	1.40	1.32
1	if	146	SER	CA-C	-7.41	1.43	1.52
1	kf	87	HIS	ND1-CE1	7.41	1.40	1.32
1	29	129	ILE	CA-CB	-7.41	1.45	1.54
1	lN	12	HIS	CE1-NE2	7.41	1.40	1.32
1	4G	136	LEU	CA-C	-7.41	1.42	1.52
1	54	12	HIS	ND1-CE1	7.41	1.40	1.32
1	7R	171	THR	CA-C	-7.41	1.43	1.52
1	8a	80	TRP	C-N	7.41	1.44	1.33
1	8V	87	HIS	CA-CB	7.41	1.61	1.53
1	90	212	GLU	C-N	7.41	1.43	1.33
1	9e	185	MET	N-CA	-7.41	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9k	213	GLU	CA-C	-7.41	1.43	1.52
1	cv	205	LEU	N-CA	7.41	1.55	1.46
1	er	110	THR	CA-C	-7.41	1.43	1.52
1	f9	210	THR	CA-C	-7.41	1.43	1.52
1	fc	6	LEU	CA-CB	7.41	1.66	1.53
1	Q	33	SER	CA-CB	7.41	1.62	1.53
1	iH	140	LYS	CA-CB	7.41	1.65	1.53
1	kD	180	GLU	N-CA	7.41	1.55	1.46
1	kW	25	LYS	CA-CB	7.41	1.64	1.53
1	31	128	GLU	CA-C	7.41	1.62	1.52
1	4o	117	TRP	CA-CB	7.41	1.65	1.53
1	5w	87	HIS	ND1-CE1	7.41	1.40	1.32
1	6j	153	ILE	C-N	7.41	1.43	1.33
1	7h	66	MET	CA-C	-7.41	1.43	1.52
1	8Y	161	PHE	CA-CB	7.41	1.64	1.53
1	9e	84	HIS	CA-CB	7.41	1.62	1.53
1	bC	84	HIS	CD2-NE2	7.41	1.46	1.37
1	fK	219	GLN	CA-CB	7.41	1.64	1.53
1	k	44	SER	N-CA	7.41	1.54	1.46
1	hO	230	VAL	N-CA	-7.41	1.37	1.46
1	l5	152	ASP	CA-C	7.41	1.62	1.52
1	cl	103	ASP	C-N	-7.41	1.24	1.33
1	ho	7	GLN	CA-C	7.41	1.62	1.52
1	km	27	VAL	CA-C	7.41	1.62	1.52
1	kt	229	ARG	CA-C	7.41	1.62	1.52
1	36	57	ASN	CA-C	-7.41	1.42	1.52
1	3O	58	THR	C-N	7.41	1.40	1.33
1	4M	125	PRO	CA-CB	7.41	1.62	1.53
1	5G	109	SER	CA-C	-7.41	1.44	1.52
1	8I	62	HIS	CE1-NE2	7.41	1.40	1.32
1	bO	83	LEU	CA-C	-7.41	1.42	1.52
1	co	97	ARG	CA-C	7.41	1.62	1.52
1	cr	13	GLN	C-N	7.41	1.43	1.33
1	d7	132	ARG	CA-CB	7.41	1.64	1.53
1	dO	62	HIS	CA-CB	7.41	1.65	1.53
1	1s	65	ALA	N-CA	-7.41	1.37	1.46
1	eM	133	TRP	CA-CB	7.41	1.65	1.53
1	iS	15	ILE	CA-CB	-7.40	1.44	1.54
1	1W	100	ARG	CD-NE	7.40	1.56	1.46
1	l3	53	ASN	N-CA	7.40	1.55	1.46
1	lA	112	GLN	CA-C	7.40	1.62	1.52
1	90	121	ASN	CA-C	7.40	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	91	173	ARG	N-CA	-7.40	1.37	1.46
1	9Z	37	ILE	CA-C	7.40	1.58	1.52
1	cZ	37	ILE	CA-CB	7.40	1.57	1.54
1	gG	229	ARG	CA-C	7.40	1.61	1.52
1	jq	25	LYS	N-CA	-7.40	1.37	1.46
1	kX	207	PRO	CA-C	7.40	1.62	1.52
1	li	45	GLU	CA-CB	7.40	1.65	1.53
1	3U	40	PHE	CA-C	-7.40	1.43	1.52
1	71	22	ALA	N-CA	-7.40	1.37	1.46
1	7i	139	ASN	CA-CB	7.40	1.65	1.53
1	7S	14	ALA	CA-C	7.40	1.62	1.52
1	8e	45	GLU	C-N	7.40	1.44	1.33
1	91	74	ASN	CA-C	7.40	1.62	1.52
1	9G	20	LEU	CA-C	-7.40	1.43	1.52
1	cA	36	VAL	N-CA	-7.40	1.37	1.46
1	dz	208	ALA	C-N	7.40	1.43	1.33
1	eP	143	ARG	N-CA	-7.40	1.36	1.46
1	fq	124	ILE	CA-C	-7.40	1.47	1.53
1	g4	86	VAL	CA-C	7.40	1.62	1.52
1	c	129	ILE	N-CA	-7.40	1.38	1.46
1	3	217	ALA	N-CA	-7.40	1.36	1.46
1	hC	39	MET	CA-C	7.40	1.62	1.52
1	iP	112	GLN	CA-CB	7.40	1.64	1.53
1	j8	124	ILE	CA-CB	-7.40	1.45	1.54
1	kY	175	GLU	CA-C	7.40	1.62	1.52
1	3u	139	ASN	CA-C	7.40	1.62	1.52
1	4i	12	HIS	CA-C	-7.40	1.43	1.52
1	4C	62	HIS	CE1-NE2	7.40	1.40	1.32
1	7o	18	ARG	CA-C	7.40	1.62	1.52
1	8y	128	GLU	CA-C	7.40	1.62	1.52
1	8W	13	GLN	C-N	7.40	1.43	1.33
1	b9	47	ALA	CA-C	-7.40	1.43	1.52
1	bi	104	ILE	CA-C	-7.40	1.42	1.52
1	bJ	138	LEU	CA-CB	7.40	1.65	1.53
1	c1	92	GLU	CA-C	7.40	1.60	1.52
1	f4	174	ALA	CA-C	-7.40	1.43	1.52
1	R	111	LEU	CA-CB	7.40	1.65	1.53
1	ju	151	LEU	CA-C	-7.40	1.42	1.52
1	lb	127	GLY	CA-C	-7.40	1.44	1.52
1	lG	15	ILE	CA-CB	7.40	1.62	1.54
1	5b	116	GLY	C-O	-7.40	1.15	1.23
1	7f	153	ILE	CA-CB	7.40	1.64	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8u	84	HIS	ND1-CE1	7.40	1.40	1.32
1	bz	223	GLY	CA-C	7.40	1.62	1.51
1	bE	145	TYR	CA-CB	7.40	1.65	1.53
1	fr	58	THR	N-CA	7.40	1.55	1.46
1	gO	98	GLU	CA-C	7.40	1.63	1.52
1	h1	103	ASP	CA-C	7.40	1.62	1.52
1	hg	76	GLU	CA-CB	7.40	1.64	1.53
1	i1	133	TRP	N-CA	7.40	1.55	1.46
1	jx	48	THR	CA-CB	7.40	1.63	1.53
1	l0	31	ALA	CA-CB	7.40	1.66	1.53
1	2v	120	HIS	ND1-CE1	7.40	1.40	1.32
1	37	159	GLU	CA-CB	7.40	1.63	1.53
1	3T	87	HIS	N-CA	-7.40	1.36	1.46
1	4p	83	LEU	C-N	7.40	1.40	1.33
1	6e	206	GLY	C-N	7.40	1.41	1.34
1	6O	7	GLN	CA-C	-7.40	1.43	1.52
1	6T	12	HIS	ND1-CE1	7.40	1.40	1.32
1	8D	61	GLY	C-N	7.40	1.43	1.33
1	8O	43	LEU	CA-CB	7.40	1.65	1.53
1	8P	127	GLY	C-N	7.40	1.43	1.33
1	93	172	LEU	CA-C	7.40	1.62	1.52
1	9i	129	ILE	C-N	7.40	1.43	1.33
1	9k	69	LEU	C-O	-7.40	1.15	1.24
1	9t	95	GLN	CA-C	7.40	1.62	1.52
1	a9	112	GLN	CA-CB	7.40	1.64	1.53
1	1b	177	ALA	C-N	7.40	1.43	1.33
1	1d	23	TRP	N-CA	-7.40	1.37	1.46
1	ck	15	ILE	CA-C	-7.40	1.42	1.52
1	1e	172	LEU	N-CA	-7.40	1.37	1.46
1	1x	196	PRO	N-CA	-7.40	1.37	1.47
1	1y	142	VAL	CA-CB	7.40	1.63	1.54
1	if	212	GLU	CA-C	7.40	1.62	1.52
1	ij	173	ARG	CD-NE	7.40	1.56	1.46
1	3b	186	THR	N-CA	-7.40	1.37	1.46
1	4t	24	VAL	N-CA	7.40	1.55	1.46
1	4Q	14	ALA	CA-C	7.40	1.62	1.52
1	6e	87	HIS	CA-C	-7.40	1.43	1.52
1	8o	13	GLN	CA-C	7.40	1.61	1.52
1	92	124	ILE	CA-C	-7.40	1.47	1.53
1	bB	184	TRP	CA-CB	7.40	1.64	1.53
1	ei	17	PRO	N-CA	-7.40	1.37	1.47
1	1s	28	GLU	N-CA	-7.40	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eX	219	GLN	C-N	7.40	1.42	1.34
1	fj	150	ILE	CA-C	7.40	1.62	1.52
1	go	190	LEU	N-CA	7.39	1.55	1.46
1	hi	173	ARG	CD-NE	7.39	1.56	1.46
1	ho	158	LYS	CA-CB	7.39	1.63	1.53
1	if	84	HIS	ND1-CE1	7.39	1.40	1.32
1	iM	5	ASN	CA-CB	7.39	1.64	1.53
1	1U	105	ALA	CA-C	7.39	1.63	1.52
1	lN	190	LEU	C-N	7.39	1.41	1.33
1	4O	226	HIS	CA-CB	7.39	1.64	1.53
1	5B	154	ARG	CA-C	-7.39	1.43	1.52
1	5V	89	GLY	CA-C	7.39	1.62	1.51
1	7z	26	VAL	C-N	7.39	1.43	1.33
1	86	37	ILE	CA-CB	-7.39	1.50	1.54
1	88	143	ARG	CA-C	7.39	1.62	1.52
1	8C	177	ALA	CA-C	7.39	1.62	1.52
1	9p	161	PHE	CA-C	7.39	1.62	1.52
1	9W	195	ASN	CA-CB	7.39	1.64	1.53
1	ae	67	GLN	C-N	7.39	1.43	1.33
1	aG	89	GLY	N-CA	7.39	1.54	1.44
1	b8	37	ILE	CA-C	7.39	1.61	1.52
1	by	133	TRP	NE1-CE2	-7.39	1.29	1.37
1	c3	92	GLU	CA-C	-7.39	1.44	1.53
1	cr	119	THR	N-CA	7.39	1.55	1.46
1	1z	74	ASN	CA-C	7.39	1.62	1.52
1	j	192	GLN	N-CA	7.39	1.55	1.46
1	h3	103	ASP	N-CA	7.39	1.55	1.46
1	hD	16	SER	CA-C	7.39	1.60	1.53
1	hG	97	ARG	CD-NE	7.39	1.56	1.46
1	jQ	56	LEU	CA-C	7.39	1.62	1.52
1	lc	2	ILE	CA-CB	7.39	1.62	1.54
1	31	223	GLY	N-CA	7.39	1.54	1.44
1	3T	184	TRP	C-O	-7.39	1.15	1.24
1	63	61	GLY	CA-C	-7.39	1.44	1.52
1	6Z	6	LEU	CA-C	-7.39	1.43	1.52
1	7d	62	HIS	CA-CB	7.39	1.64	1.53
1	7t	73	ILE	CA-CB	-7.39	1.45	1.54
1	8k	173	ARG	CD-NE	7.39	1.56	1.46
1	8J	27	VAL	C-O	-7.39	1.15	1.24
1	a5	132	ARG	CD-NE	7.39	1.56	1.46
1	aM	29	GLU	CA-CB	7.39	1.64	1.53
1	18	190	LEU	C-N	7.39	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bD	113	GLU	CA-C	7.39	1.62	1.52
1	dr	109	SER	CA-CB	7.39	1.65	1.53
1	e9	104	ILE	CA-C	-7.39	1.43	1.52
1	hO	136	LEU	N-CA	7.39	1.55	1.46
1	dN	62	HIS	CE1-NE2	7.39	1.40	1.32
1	dW	69	LEU	CA-C	-7.39	1.43	1.52
1	gI	99	PRO	CA-CB	7.39	1.63	1.53
1	h2	100	ARG	CD-NE	7.39	1.56	1.46
1	iF	45	GLU	CA-CB	7.39	1.63	1.53
1	jF	141	ILE	C-N	7.39	1.43	1.33
1	41	140	LYS	C-N	7.39	1.43	1.33
1	4b	82	ARG	N-CA	-7.39	1.37	1.46
1	51	50	GLN	CA-C	7.39	1.62	1.52
1	5z	210	THR	C-N	7.39	1.43	1.33
1	9Z	168	PHE	CA-C	7.39	1.62	1.52
1	ak	57	ASN	CA-C	7.39	1.62	1.52
1	aQ	87	HIS	ND1-CE1	7.39	1.40	1.32
1	c9	83	LEU	CA-CB	7.39	1.66	1.53
1	eb	78	ALA	C-N	7.39	1.43	1.33
1	ft	40	PHE	CA-CB	7.39	1.65	1.53
1	1C	163	ASP	CA-CB	7.39	1.64	1.53
1	52	226	HIS	CD2-NE2	7.39	1.46	1.37
1	8z	127	GLY	C-O	-7.39	1.15	1.23
1	9G	10	MET	CA-CB	7.39	1.63	1.53
1	9L	43	LEU	C-N	7.39	1.43	1.33
1	11	168	PHE	N-CA	7.39	1.55	1.46
1	bq	30	LYS	N-CA	7.39	1.55	1.46
1	cR	166	ASP	CA-CB	7.39	1.64	1.53
1	e3	75	GLU	CA-CB	7.39	1.64	1.53
1	eG	84	HIS	C-O	-7.39	1.18	1.25
1	gy	136	LEU	C-N	7.39	1.43	1.33
1	io	213	GLU	CA-CB	7.39	1.64	1.53
1	jc	66	MET	CA-C	7.39	1.62	1.52
1	2L	154	ARG	CD-NE	7.39	1.56	1.46
1	aH	70	LYS	CA-C	7.39	1.62	1.52
1	bv	97	ARG	CD-NE	7.39	1.56	1.46
1	c2	51	ASP	C-N	7.39	1.43	1.33
1	cg	75	GLU	CA-C	-7.39	1.42	1.52
1	e9	35	GLU	CA-CB	7.39	1.65	1.53
1	J	37	ILE	CA-CB	7.39	1.58	1.53
1	6	16	SER	CA-CB	7.39	1.66	1.53
1	jY	65	ALA	N-CA	-7.38	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kr	144	MET	CA-C	7.38	1.62	1.52
1	2k	162	ARG	CZ-NH2	-7.38	1.23	1.33
1	3l	5	ASN	CA-C	7.38	1.61	1.52
1	42	47	ALA	CA-C	7.38	1.62	1.52
1	4l	69	LEU	CA-C	-7.38	1.43	1.52
1	7M	155	GLN	N-CA	-7.38	1.36	1.46
1	9P	104	ILE	N-CA	7.38	1.55	1.46
1	c9	53	ASN	N-CA	7.38	1.55	1.46
1	dW	26	VAL	C-N	-7.38	1.25	1.34
1	f3	225	GLY	N-CA	7.38	1.55	1.45
1	p	16	SER	C-N	7.38	1.43	1.34
1	A	159	GLU	C-N	7.38	1.42	1.33
1	C	121	ASN	CA-CB	7.38	1.61	1.53
1	jg	227	LYS	CA-C	7.38	1.62	1.52
1	3g	102	SER	CA-CB	7.38	1.65	1.53
1	3j	126	VAL	C-N	7.38	1.42	1.33
1	3n	13	GLN	CA-C	7.38	1.61	1.52
1	4C	185	MET	N-CA	7.38	1.55	1.46
1	aE	120	HIS	CG-ND1	7.38	1.46	1.38
1	ds	10	MET	C-O	7.38	1.33	1.24
1	iS	6	LEU	CB-CG	7.38	1.68	1.53
1	kG	15	ILE	N-CA	7.38	1.55	1.46
1	kR	168	PHE	CA-CB	7.38	1.64	1.53
1	3O	51	ASP	CA-CB	7.38	1.65	1.53
1	45	84	HIS	CE1-NE2	-7.38	1.25	1.32
1	5A	223	GLY	N-CA	7.38	1.54	1.44
1	62	78	ALA	CA-C	7.38	1.62	1.52
1	8m	11	VAL	N-CA	7.38	1.54	1.46
1	8T	164	TYR	CA-CB	7.38	1.64	1.53
1	9a	219	GLN	CA-CB	7.38	1.63	1.53
1	ag	154	ARG	CD-NE	7.38	1.56	1.46
1	dC	161	PHE	N-CA	-7.38	1.37	1.46
1	e1	219	GLN	N-CA	-7.38	1.36	1.46
1	eq	152	ASP	C-N	7.38	1.43	1.33
1	fp	199	LYS	C-O	-7.38	1.15	1.24
1	gL	69	LEU	N-CA	7.38	1.55	1.46
1	49	163	ASP	C-O	-7.38	1.15	1.24
1	6R	7	GLN	C-N	7.38	1.42	1.33
1	bb	12	HIS	CB-CG	7.38	1.60	1.50
1	be	221	VAL	C-O	-7.38	1.17	1.24
1	I	120	HIS	ND1-CE1	7.38	1.40	1.32
1	gh	18	ARG	CD-NE	7.38	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	go	229	ARG	C-N	-7.38	1.23	1.33
1	iW	55	MET	N-CA	-7.38	1.37	1.46
1	jA	127	GLY	C-N	7.38	1.44	1.33
1	ly	140	LYS	CA-C	7.38	1.62	1.52
1	2c	117	TRP	C-N	7.38	1.44	1.34
1	3R	202	LEU	N-CA	7.38	1.55	1.46
1	40	211	LEU	CA-C	-7.38	1.43	1.52
1	4G	184	TRP	NE1-CE2	-7.38	1.29	1.37
1	5U	185	MET	C-N	7.38	1.43	1.33
1	8q	95	GLN	C-N	7.38	1.43	1.33
1	aq	181	VAL	C-N	7.38	1.43	1.33
1	bm	12	HIS	CD2-NE2	7.38	1.46	1.37
1	cw	216	THR	N-CA	7.38	1.54	1.46
1	d5	210	THR	CA-C	-7.38	1.42	1.52
1	1v	98	GLU	CA-C	7.38	1.61	1.52
1	P	62	HIS	ND1-CE1	7.38	1.40	1.32
1	X	19	THR	C-N	7.38	1.42	1.33
1	i9	128	GLU	C-N	7.38	1.43	1.33
1	iv	124	ILE	CA-C	-7.38	1.47	1.53
1	kE	204	ALA	N-CA	-7.38	1.36	1.46
1	63	120	HIS	ND1-CE1	7.38	1.40	1.32
1	64	40	PHE	CA-C	7.38	1.62	1.52
1	6s	100	ARG	CD-NE	7.38	1.56	1.46
1	7P	168	PHE	C-N	7.38	1.43	1.33
1	9J	226	HIS	CB-CG	-7.38	1.39	1.50
1	aN	7	GLN	CA-CB	7.38	1.64	1.53
1	aQ	195	ASN	C-N	7.38	1.43	1.34
1	b6	230	VAL	CA-C	7.38	1.61	1.52
1	bI	116	GLY	C-N	7.38	1.43	1.33
1	eg	134	ILE	CB-CG1	7.38	1.68	1.53
1	ei	73	ILE	CA-C	7.38	1.61	1.52
1	15	38	PRO	N-CA	-7.38	1.37	1.47
1	c3	108	THR	N-CA	7.38	1.54	1.46
1	e	219	GLN	C-N	7.38	1.44	1.33
1	he	53	ASN	C-O	-7.37	1.15	1.24
1	hu	33	SER	N-CA	7.37	1.51	1.46
1	iL	121	ASN	CA-C	7.37	1.62	1.52
1	l0	168	PHE	CA-C	7.37	1.62	1.52
1	2b	53	ASN	CA-C	7.37	1.62	1.52
1	2Q	134	ILE	C-N	7.37	1.43	1.33
1	ad	154	ARG	CA-C	-7.37	1.43	1.52
1	bU	155	GLN	CA-C	-7.37	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fi	229	ARG	CA-C	7.37	1.62	1.52
1	fy	157	PRO	CA-C	-7.37	1.41	1.52
1	fD	84	HIS	ND1-CE1	7.37	1.40	1.32
1	fP	142	VAL	CA-C	7.37	1.62	1.52
1	s	97	ARG	CA-C	7.37	1.63	1.53
1	D	113	GLU	C-N	7.37	1.43	1.33
1	gm	128	GLU	CA-CB	7.37	1.64	1.53
1	he	127	GLY	N-CA	7.37	1.56	1.45
1	jg	21	ASN	CA-C	7.37	1.62	1.52
1	jg	105	ALA	CA-C	-7.37	1.42	1.52
1	kb	33	SER	CA-C	-7.37	1.44	1.52
1	lD	213	GLU	CA-CB	7.37	1.65	1.53
1	2M	84	HIS	C-O	-7.37	1.19	1.25
1	2N	77	ALA	C-N	7.37	1.43	1.33
1	3X	17	PRO	C-O	-7.37	1.15	1.24
1	47	72	THR	C-N	7.37	1.43	1.33
1	5t	156	GLY	N-CA	7.37	1.54	1.44
1	5z	140	LYS	CA-CB	7.37	1.64	1.53
1	6o	77	ALA	N-CA	-7.37	1.37	1.46
1	6S	97	ARG	CA-CB	7.37	1.65	1.53
1	7D	228	ALA	C-N	7.37	1.43	1.33
1	ah	143	ARG	CD-NE	7.37	1.56	1.46
1	av	226	HIS	ND1-CE1	7.37	1.40	1.32
1	aM	67	GLN	CA-CB	7.37	1.65	1.53
1	aP	197	ASP	CA-C	-7.37	1.43	1.52
1	bg	84	HIS	CG-CD2	7.37	1.44	1.35
1	ck	81	ASP	C-N	7.37	1.44	1.33
1	cO	222	GLY	N-CA	7.37	1.56	1.45
1	dR	98	GLU	N-CA	-7.37	1.37	1.46
1	e9	139	ASN	CA-C	7.37	1.62	1.52
1	v	166	ASP	CA-C	-7.37	1.43	1.52
1	v	183	ASN	N-CA	-7.37	1.37	1.46
1	kr	190	LEU	C-N	-7.37	1.25	1.33
1	2c	18	ARG	CA-C	-7.37	1.43	1.52
1	2k	50	GLN	CA-CB	7.37	1.64	1.53
1	3x	116	GLY	CA-C	-7.37	1.43	1.52
1	91	178	SER	C-N	7.37	1.43	1.33
1	11	224	PRO	N-CD	7.37	1.58	1.47
1	eL	120	HIS	ND1-CE1	7.37	1.40	1.32
1	fZ	132	ARG	CD-NE	7.37	1.56	1.46
1	1F	44	SER	N-CA	-7.37	1.37	1.46
1	hc	143	ARG	CD-NE	7.37	1.56	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i5	216	THR	C-N	7.37	1.42	1.33
1	i8	226	HIS	C-N	7.37	1.43	1.33
1	iq	176	GLN	N-CA	-7.37	1.37	1.46
1	iW	61	GLY	CA-C	-7.37	1.44	1.52
1	21	46	GLY	C-N	7.37	1.43	1.33
1	lq	218	CYS	CA-CB	7.37	1.64	1.53
1	2l	35	GLU	CA-C	7.37	1.62	1.52
1	3f	135	ILE	CA-CB	7.37	1.63	1.54
1	6q	83	LEU	CA-C	7.37	1.62	1.52
1	8d	225	GLY	CA-C	-7.37	1.41	1.51
1	96	132	ARG	CZ-NH2	-7.37	1.23	1.33
1	af	79	GLU	CA-C	-7.37	1.43	1.52
1	am	149	SER	CA-C	-7.37	1.43	1.52
1	ap	213	GLU	C-N	7.37	1.43	1.33
1	dD	160	PRO	CA-CB	7.37	1.62	1.53
1	1p	26	VAL	CA-C	7.37	1.61	1.52
1	eR	72	THR	N-CA	7.37	1.55	1.46
1	f2	143	ARG	N-CA	-7.37	1.37	1.46
1	g3	133	TRP	NE1-CE2	7.37	1.45	1.37
1	t	143	ARG	CD-NE	7.37	1.56	1.46
1	j1	16	SER	CA-C	-7.37	1.43	1.53
1	l3	199	LYS	CA-C	7.37	1.62	1.52
1	3R	133	TRP	NE1-CE2	-7.37	1.29	1.37
1	7y	110	THR	CA-C	7.37	1.63	1.53
1	9j	162	ARG	N-CA	7.37	1.55	1.46
1	dk	207	PRO	N-CA	7.37	1.55	1.47
1	1l	87	HIS	CA-C	-7.37	1.43	1.52
1	gd	37	ILE	CA-CB	7.37	1.58	1.53
1	hE	190	LEU	CA-C	-7.37	1.43	1.52
1	hL	114	GLN	N-CA	-7.37	1.37	1.46
1	jl	103	ASP	C-N	7.37	1.43	1.34
1	l7	146	SER	N-CA	7.37	1.54	1.45
1	2y	102	SER	CA-CB	7.37	1.64	1.53
1	3c	33	SER	C-N	7.37	1.41	1.34
1	4D	84	HIS	CB-CG	7.37	1.60	1.50
1	4G	50	GLN	N-CA	7.37	1.55	1.46
1	5z	114	GLN	CA-C	7.37	1.62	1.52
1	5H	210	THR	CA-CB	7.37	1.66	1.53
1	6a	108	THR	CB-OG1	-7.37	1.31	1.43
1	7m	12	HIS	CB-CG	7.37	1.60	1.50
1	7M	37	ILE	CA-C	7.37	1.60	1.52
1	8x	165	VAL	CA-CB	7.37	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9M	127	GLY	CA-C	-7.37	1.44	1.52
1	a2	165	VAL	N-CA	-7.37	1.38	1.46
1	dS	117	TRP	NE1-CE2	-7.37	1.29	1.37
1	dV	119	THR	C-N	7.37	1.43	1.33
1	ej	94	GLY	CA-C	-7.37	1.42	1.51
1	el	114	GLN	CA-C	7.37	1.62	1.52
1	gg	11	VAL	CA-C	7.36	1.61	1.52
1	gk	86	VAL	CA-C	7.36	1.61	1.52
1	jN	223	GLY	N-CA	7.36	1.54	1.44
1	2w	125	PRO	CA-CB	7.36	1.58	1.53
1	7K	185	MET	CA-CB	7.36	1.64	1.53
1	8v	159	GLU	CA-C	7.36	1.61	1.53
1	aK	70	LYS	CA-C	7.36	1.62	1.52
1	et	12	HIS	ND1-CE1	7.36	1.40	1.32
1	fU	30	LYS	CA-C	-7.36	1.43	1.52
1	v	126	VAL	CA-CB	-7.36	1.45	1.54
1	w	226	HIS	ND1-CE1	7.36	1.40	1.32
1	io	84	HIS	CA-CB	7.36	1.63	1.53
1	ly	139	ASN	CA-C	7.36	1.62	1.52
1	dr	197	ASP	CA-C	-7.36	1.43	1.52
1	eg	46	GLY	CA-C	7.36	1.60	1.51
1	ew	36	VAL	C-N	7.36	1.41	1.33
1	gG	61	GLY	N-CA	7.36	1.54	1.45
1	1V	162	ARG	N-CA	-7.36	1.37	1.46
1	21	12	HIS	CB-CG	-7.36	1.39	1.50
1	49	59	VAL	CA-CB	7.36	1.62	1.54
1	4T	84	HIS	N-CA	-7.36	1.38	1.46
1	4W	92	GLU	C-N	7.36	1.41	1.33
1	7m	212	GLU	N-CA	-7.36	1.37	1.46
1	9H	90	PRO	N-CA	-7.36	1.38	1.47
1	ac	226	HIS	ND1-CE1	7.36	1.40	1.32
1	aT	109	SER	CA-C	-7.36	1.43	1.52
1	c5	134	ILE	CA-CB	-7.36	1.45	1.54
1	ct	113	GLU	N-CA	7.36	1.55	1.46
1	eA	154	ARG	CD-NE	7.36	1.56	1.46
1	he	99	PRO	N-CA	-7.36	1.38	1.46
1	il	51	ASP	N-CA	7.36	1.55	1.46
1	jR	12	HIS	CA-CB	7.36	1.63	1.53
1	ae	167	ARG	CA-C	7.36	1.62	1.52
1	bq	86	VAL	CA-CB	-7.36	1.45	1.53
1	bU	146	SER	C-N	7.36	1.39	1.33
1	dI	152	ASP	CA-C	-7.36	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dK	216	THR	N-CA	7.36	1.54	1.46
1	fl	72	THR	CA-C	-7.36	1.43	1.52
1	fN	43	LEU	C-N	7.36	1.43	1.33
1	gO	167	ARG	N-CA	7.36	1.55	1.46
1	jr	158	LYS	CA-CB	7.36	1.64	1.54
1	k7	199	LYS	CA-C	7.36	1.62	1.52
1	7h	46	GLY	C-N	7.36	1.43	1.33
1	93	85	PRO	CA-C	7.36	1.62	1.52
1	c2	138	LEU	CA-CB	7.36	1.64	1.53
1	ci	202	LEU	CA-C	7.36	1.62	1.52
1	fv	197	ASP	C-O	-7.36	1.15	1.24
1	fO	115	ILE	C-N	7.36	1.43	1.33
1	O	139	ASN	CA-CB	7.36	1.64	1.53
1	gX	96	MET	CA-CB	7.36	1.65	1.53
1	1K	84	HIS	C-N	7.36	1.43	1.33
1	i7	65	ALA	C-N	7.36	1.43	1.33
1	kP	211	LEU	CA-C	7.36	1.62	1.52
1	l0	14	ALA	N-CA	-7.36	1.36	1.46
1	lq	215	MET	CA-CB	7.36	1.65	1.53
1	4i	84	HIS	CG-CD2	7.36	1.44	1.35
1	5m	31	ALA	C-N	7.36	1.43	1.33
1	11	162	ARG	CA-C	7.36	1.62	1.52
1	aV	156	GLY	C-N	7.36	1.40	1.33
1	fc	116	GLY	N-CA	-7.36	1.36	1.45
1	fz	35	GLU	N-CA	-7.36	1.36	1.46
1	z	227	LYS	CA-CB	7.36	1.64	1.53
1	C	75	GLU	CA-C	7.36	1.62	1.52
1	L	78	ALA	C-N	7.36	1.43	1.33
1	jl	4	GLN	CA-C	-7.35	1.46	1.53
1	jB	87	HIS	CB-CG	7.35	1.60	1.50
1	2n	10	MET	N-CA	-7.35	1.36	1.46
1	67	23	TRP	CA-C	-7.35	1.43	1.52
1	cl	205	LEU	CA-C	7.35	1.62	1.52
1	fo	57	ASN	CA-C	-7.35	1.42	1.52
1	gY	73	ILE	CA-CB	-7.35	1.45	1.54
1	hy	37	ILE	C-N	-7.35	1.25	1.34
1	jA	17	PRO	C-N	7.35	1.43	1.33
1	kM	87	HIS	CA-C	7.35	1.61	1.52
1	lH	177	ALA	CA-C	7.35	1.62	1.52
1	2f	7	GLN	C-O	-7.35	1.16	1.23
1	3z	125	PRO	N-CA	-7.35	1.41	1.47
1	4U	138	LEU	CA-C	7.35	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	50	19	THR	CA-C	-7.35	1.43	1.52
1	5a	173	ARG	CA-CB	7.35	1.64	1.53
1	73	12	HIS	N-CA	-7.35	1.36	1.46
1	7n	40	PHE	CA-CB	7.35	1.64	1.53
1	7V	135	ILE	C-N	7.35	1.44	1.34
1	8o	125	PRO	N-CA	7.35	1.53	1.47
1	9W	4	GLN	N-CA	-7.35	1.37	1.46
1	b1	140	LYS	CA-C	7.35	1.62	1.52
1	19	76	GLU	C-N	7.35	1.43	1.33
1	dR	214	MET	C-N	7.35	1.43	1.33
1	ej	120	HIS	ND1-CE1	7.35	1.40	1.32
1	fm	221	VAL	C-O	-7.35	1.16	1.24
1	N	212	GLU	C-N	7.35	1.43	1.33
1	hh	141	ILE	C-N	7.35	1.43	1.33
1	33	120	HIS	CB-CG	7.35	1.60	1.50
1	5q	144	MET	N-CA	-7.35	1.36	1.46
1	68	92	GLU	CA-C	7.35	1.62	1.53
1	9a	1	PRO	N-CD	7.35	1.58	1.47
1	bX	93	PRO	CA-C	-7.35	1.43	1.52
1	gD	6	LEU	N-CA	-7.35	1.36	1.46
1	iM	93	PRO	CA-CB	7.35	1.64	1.53
1	kt	66	MET	CA-C	7.35	1.62	1.52
1	kP	122	PRO	C-N	7.35	1.43	1.33
1	lK	88	ALA	C-N	7.35	1.44	1.33
1	4k	165	VAL	CA-CB	-7.35	1.45	1.54
1	6w	71	GLU	CA-CB	7.35	1.64	1.53
1	8i	215	MET	CA-C	7.35	1.62	1.52
1	8D	166	ASP	CA-CB	7.35	1.65	1.53
1	93	75	GLU	CA-CB	7.35	1.64	1.53
1	d9	205	LEU	CA-CB	7.35	1.64	1.53
1	d9	226	HIS	CD2-NE2	7.35	1.46	1.37
1	dH	229	ARG	CZ-NH2	-7.35	1.23	1.33
1	1t	153	ILE	CA-C	7.35	1.62	1.52
1	f	160	PRO	N-CD	-7.35	1.37	1.47
1	i	181	VAL	CA-C	7.35	1.61	1.52
1	jV	5	ASN	CA-C	7.35	1.61	1.52
1	lB	166	ASP	CA-C	7.35	1.62	1.52
1	48	9	GLN	CA-CB	7.35	1.65	1.53
1	4E	77	ALA	N-CA	7.35	1.55	1.46
1	5y	217	ALA	CA-C	7.35	1.62	1.52
1	78	105	ALA	C-N	7.35	1.43	1.33
1	7F	162	ARG	CA-CB	7.35	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8N	99	PRO	CA-C	7.35	1.60	1.52
1	cp	17	PRO	N-CA	-7.35	1.37	1.47
1	dT	18	ARG	CD-NE	7.35	1.56	1.46
1	gI	126	VAL	C-N	7.35	1.42	1.34
1	jK	19	THR	C-N	7.35	1.43	1.33
1	2g	161	PHE	C-N	7.35	1.43	1.33
1	4S	120	HIS	ND1-CE1	7.35	1.39	1.32
1	6F	70	LYS	CA-CB	7.35	1.64	1.53
1	7s	211	LEU	N-CA	-7.35	1.37	1.46
1	ao	142	VAL	CA-CB	-7.35	1.44	1.54
1	cg	36	VAL	C-N	7.35	1.41	1.33
1	fc	124	ILE	CA-C	-7.35	1.47	1.53
1	fo	25	LYS	CA-C	-7.35	1.42	1.52
1	fP	97	ARG	N-CA	-7.35	1.37	1.46
1	gO	177	ALA	CA-C	7.34	1.62	1.52
1	gV	100	ARG	N-CA	7.34	1.54	1.46
1	ki	2	ILE	C-N	7.34	1.42	1.33
1	kA	173	ARG	CD-NE	7.34	1.56	1.46
1	kX	41	SER	C-O	-7.34	1.15	1.24
1	lA	186	THR	CA-C	-7.34	1.43	1.52
1	lI	115	ILE	CA-CB	-7.34	1.45	1.54
1	5x	200	THR	C-N	7.34	1.43	1.33
1	5M	192	GLN	CA-CB	7.34	1.64	1.53
1	7O	37	ILE	CA-CB	7.34	1.58	1.54
1	8F	12	HIS	CA-C	7.34	1.62	1.52
1	9s	7	GLN	C-N	7.34	1.41	1.32
1	as	82	ARG	CZ-NH2	-7.34	1.24	1.33
1	aX	32	PHE	CA-C	-7.34	1.43	1.52
1	aZ	195	ASN	CA-CB	7.34	1.65	1.53
1	b2	108	THR	C-N	7.34	1.43	1.33
1	d1	196	PRO	N-CA	7.34	1.56	1.47
1	dU	123	PRO	C-N	7.34	1.40	1.33
1	fh	134	ILE	CA-C	-7.34	1.43	1.52
1	j1	126	VAL	C-N	7.34	1.43	1.34
1	kE	201	ILE	C-O	-7.34	1.15	1.24
1	lk	177	ALA	C-N	7.34	1.43	1.33
1	2E	108	THR	CA-C	-7.34	1.44	1.52
1	5f	152	ASP	CA-C	-7.34	1.42	1.52
1	5H	140	LYS	CA-C	7.34	1.62	1.52
1	6k	26	VAL	CA-CB	7.34	1.63	1.54
1	6t	90	PRO	C-N	7.34	1.42	1.33
1	8U	133	TRP	C-N	7.34	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9P	161	PHE	N-CA	-7.34	1.37	1.46
1	bx	213	GLU	CA-CB	7.34	1.64	1.53
1	dp	162	ARG	CA-C	7.34	1.62	1.52
1	1v	103	ASP	C-O	-7.34	1.15	1.24
1	ix	144	MET	CA-C	-7.34	1.42	1.52
1	j9	228	ALA	CA-CB	7.34	1.63	1.53
1	l4	202	LEU	CA-C	7.34	1.62	1.52
1	3U	41	SER	CA-C	-7.34	1.43	1.52
1	4V	23	TRP	NE1-CE2	-7.34	1.29	1.37
1	5f	115	ILE	CA-C	-7.34	1.43	1.52
1	5O	224	PRO	CA-CB	7.34	1.63	1.53
1	5R	72	THR	CA-C	-7.34	1.43	1.52
1	5X	170	LYS	CA-C	7.34	1.62	1.52
1	6o	170	LYS	C-N	7.34	1.43	1.33
1	6x	20	LEU	CA-C	7.34	1.62	1.52
1	88	217	ALA	N-CA	-7.34	1.36	1.46
1	a3	224	PRO	C-N	7.34	1.42	1.33
1	aF	84	HIS	ND1-CE1	7.34	1.39	1.32
1	c2	186	THR	C-N	7.34	1.43	1.33
1	cM	176	GLN	CA-C	7.34	1.64	1.52
1	cR	36	VAL	CA-CB	-7.34	1.45	1.54
1	eT	39	MET	CA-C	7.34	1.62	1.52
1	fM	151	LEU	CA-C	-7.34	1.43	1.52
1	gi	173	ARG	CD-NE	7.34	1.56	1.46
1	hw	153	ILE	N-CA	-7.34	1.38	1.46
1	jl	14	ALA	C-N	-7.34	1.24	1.33
1	kR	163	ASP	C-N	7.34	1.43	1.33
1	27	142	VAL	CA-C	7.34	1.62	1.52
1	5C	84	HIS	ND1-CE1	7.34	1.39	1.32
1	6z	184	TRP	NE1-CE2	-7.34	1.29	1.37
1	8i	148	THR	CA-CB	-7.34	1.42	1.53
1	8I	2	ILE	CA-CB	7.34	1.62	1.54
1	9C	184	TRP	C-N	7.34	1.43	1.34
1	c5	126	VAL	CA-CB	7.34	1.62	1.54
1	1o	129	ILE	CA-CB	-7.34	1.45	1.54
1	eb	82	ARG	CD-NE	7.34	1.56	1.46
1	f9	125	PRO	CA-C	7.34	1.62	1.52
1	jE	84	HIS	CA-CB	7.34	1.61	1.53
1	2w	226	HIS	ND1-CE1	7.34	1.39	1.32
1	2W	81	ASP	CA-CB	7.34	1.64	1.53
1	3y	178	SER	CA-C	7.34	1.62	1.53
1	49	97	ARG	N-CA	7.34	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6k	119	THR	N-CA	7.34	1.56	1.45
1	8z	188	THR	C-N	7.34	1.43	1.33
1	eM	226	HIS	CD2-NE2	7.34	1.46	1.37
1	eT	148	THR	CA-C	-7.34	1.43	1.52
1	iK	219	GLN	CA-CB	7.34	1.62	1.53
1	jY	76	GLU	C-N	7.34	1.43	1.33
1	5F	210	THR	CA-C	-7.34	1.43	1.53
1	8e	182	LYS	CA-C	7.34	1.62	1.52
1	8O	188	THR	CA-C	-7.34	1.46	1.52
1	98	146	SER	CA-C	-7.34	1.43	1.52
1	bl	213	GLU	CA-C	7.34	1.62	1.52
1	bD	37	ILE	CA-CB	7.34	1.58	1.54
1	c2	115	ILE	CA-CB	-7.34	1.45	1.54
1	dL	46	GLY	CA-C	7.34	1.61	1.51
1	ea	229	ARG	NE-CZ	-7.34	1.25	1.33
1	fV	8	GLY	CA-C	-7.34	1.41	1.51
1	e	133	TRP	C-N	7.34	1.43	1.33
1	q	200	THR	CA-C	-7.34	1.43	1.52
1	X	36	VAL	CA-CB	7.34	1.62	1.54
1	gm	181	VAL	CA-C	7.33	1.62	1.52
1	gu	197	ASP	C-N	7.33	1.44	1.33
1	ic	200	THR	C-N	7.33	1.43	1.33
1	ih	226	HIS	ND1-CE1	7.33	1.39	1.32
1	iB	22	ALA	C-N	7.33	1.43	1.33
1	jH	122	PRO	C-N	7.33	1.42	1.33
1	3m	164	TYR	C-N	7.33	1.43	1.33
1	cH	54	THR	CA-CB	7.33	1.64	1.53
1	e	92	GLU	C-N	-7.33	1.25	1.33
1	gb	101	GLY	CA-C	-7.33	1.43	1.52
1	iq	49	PRO	N-CA	-7.33	1.37	1.47
1	iv	143	ARG	CD-NE	7.33	1.56	1.46
1	js	24	VAL	C-N	7.33	1.43	1.33
1	2R	86	VAL	C-N	7.33	1.43	1.33
1	39	224	PRO	C-N	7.33	1.44	1.33
1	90	55	MET	N-CA	7.33	1.55	1.46
1	b7	179	GLN	C-N	7.33	1.43	1.33
1	1c	58	THR	CA-C	7.33	1.62	1.52
1	d2	141	ILE	CA-CB	7.33	1.63	1.54
1	fe	140	LYS	C-N	7.33	1.43	1.34
1	fl	84	HIS	ND1-CE1	7.33	1.39	1.32
1	1x	75	GLU	CA-CB	7.33	1.66	1.53
1	3Y	120	HIS	ND1-CE1	7.33	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	41	107	THR	N-CA	7.33	1.55	1.46
1	44	143	ARG	N-CA	-7.33	1.37	1.46
1	6x	139	ASN	CA-CB	7.33	1.65	1.53
1	7n	35	GLU	C-N	7.33	1.43	1.33
1	8l	226	HIS	C-N	7.33	1.43	1.33
1	ay	114	GLN	CA-CB	7.33	1.64	1.53
1	fd	87	HIS	CD2-NE2	7.33	1.46	1.37
1	fp	56	LEU	CA-CB	7.33	1.65	1.53
1	fP	118	MET	CA-CB	7.33	1.65	1.53
1	fV	219	GLN	N-CA	-7.33	1.37	1.46
1	h8	77	ALA	N-CA	-7.33	1.37	1.46
1	hC	39	MET	N-CA	-7.33	1.37	1.46
1	jO	51	ASP	CA-CB	7.33	1.65	1.53
1	8K	201	ILE	CA-C	-7.33	1.43	1.52
1	bR	62	HIS	CG-CD2	7.33	1.44	1.35
1	en	34	PRO	CA-C	-7.33	1.42	1.52
1	hz	1	PRO	N-CD	7.33	1.58	1.47
1	kC	28	GLU	N-CA	7.33	1.55	1.46
1	3V	148	THR	C-N	7.33	1.43	1.33
1	4F	142	VAL	CA-CB	-7.33	1.45	1.54
1	81	195	ASN	CA-C	7.33	1.61	1.53
1	8r	60	GLY	CA-C	-7.33	1.41	1.51
1	8Q	149	SER	CA-CB	7.33	1.65	1.53
1	8V	78	ALA	CA-C	-7.33	1.43	1.52
1	8W	85	PRO	N-CA	7.33	1.56	1.47
1	bn	121	ASN	CA-C	7.33	1.58	1.52
1	ei	116	GLY	CA-C	7.33	1.60	1.52
1	eW	224	PRO	C-N	7.33	1.44	1.33
1	fj	62	HIS	ND1-CE1	-7.33	1.25	1.32
1	fM	79	GLU	CA-C	7.33	1.62	1.52
1	g6	85	PRO	N-CA	-7.33	1.41	1.47
1	7	84	HIS	ND1-CE1	7.33	1.39	1.32
1	jQ	83	LEU	N-CA	-7.33	1.37	1.46
1	k5	195	ASN	CA-C	7.33	1.62	1.53
1	3A	47	ALA	N-CA	-7.33	1.37	1.46
1	8w	170	LYS	C-N	7.33	1.44	1.33
1	9z	108	THR	CA-CB	7.33	1.63	1.53
1	9H	126	VAL	C-N	7.33	1.44	1.33
1	bM	24	VAL	CA-CB	-7.33	1.45	1.54
1	g9	111	LEU	CA-C	7.33	1.62	1.52
1	gU	140	LYS	C-N	7.33	1.43	1.33
1	hU	195	ASN	C-N	7.33	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i1	32	PHE	CA-CB	7.33	1.63	1.53
1	i3	159	GLU	CA-CB	7.33	1.64	1.53
1	lg	25	LYS	CA-C	7.33	1.62	1.52
1	5b	125	PRO	CA-CB	7.33	1.61	1.53
1	7q	62	HIS	CE1-NE2	7.33	1.39	1.32
1	84	125	PRO	CA-C	7.33	1.61	1.53
1	88	3	VAL	CA-CB	-7.33	1.45	1.54
1	9B	182	LYS	CA-C	7.33	1.62	1.52
1	cd	227	LYS	CA-C	7.33	1.62	1.52
1	cs	163	ASP	CA-C	7.33	1.62	1.52
1	d0	126	VAL	CA-C	7.33	1.61	1.52
1	eL	129	ILE	CA-CB	-7.33	1.45	1.54
1	f6	82	ARG	CD-NE	7.33	1.56	1.46
1	i	94	GLY	N-CA	-7.33	1.34	1.45
1	P	78	ALA	C-O	-7.33	1.15	1.24
1	hM	159	GLU	CA-C	7.32	1.61	1.52
1	1Y	23	TRP	CA-C	7.32	1.62	1.52
1	1Z	145	TYR	CA-C	-7.32	1.42	1.52
1	kH	144	MET	N-CA	-7.32	1.37	1.46
1	lL	229	ARG	C-N	7.32	1.41	1.33
1	2d	94	GLY	C-N	7.32	1.43	1.33
1	2F	119	THR	C-N	7.32	1.43	1.33
1	2W	140	LYS	CA-CB	7.32	1.64	1.53
1	2X	34	PRO	CA-C	7.32	1.62	1.52
1	4k	50	GLN	CA-C	-7.32	1.43	1.52
1	8y	63	GLN	C-N	7.32	1.43	1.33
1	b7	108	THR	CA-CB	-7.32	1.42	1.53
1	dh	98	GLU	CA-C	-7.32	1.44	1.52
1	1m	206	GLY	C-N	-7.32	1.27	1.33
1	dQ	92	GLU	CA-C	7.32	1.62	1.52
1	1o	228	ALA	CA-C	-7.32	1.43	1.52
1	r	154	ARG	CA-C	-7.32	1.43	1.52
1	1Y	230	VAL	CA-CB	-7.32	1.45	1.54
1	5k	132	ARG	CA-C	7.32	1.62	1.52
1	5R	181	VAL	CA-CB	7.32	1.62	1.54
1	9P	197	ASP	N-CA	-7.32	1.37	1.46
1	9R	40	PHE	N-CA	7.32	1.55	1.46
1	b4	22	ALA	C-N	7.32	1.43	1.33
1	c8	121	ASN	CA-CB	7.32	1.64	1.53
1	dY	34	PRO	CA-C	7.32	1.63	1.52
1	f0	164	TYR	CA-C	7.32	1.62	1.52
1	fk	167	ARG	C-N	7.32	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	91	ILE	CA-C	-7.32	1.43	1.52
1	h8	150	ILE	CA-CB	-7.32	1.45	1.54
1	iy	75	GLU	C-N	7.32	1.43	1.33
1	2f	21	ASN	CA-CB	7.32	1.65	1.53
1	31	2	ILE	N-CA	-7.32	1.37	1.46
1	3N	69	LEU	CA-C	-7.32	1.42	1.52
1	3V	12	HIS	CD2-NE2	7.32	1.46	1.37
1	4f	142	VAL	CA-C	-7.32	1.44	1.52
1	5G	208	ALA	N-CA	-7.32	1.36	1.46
1	8J	62	HIS	CE1-NE2	7.32	1.39	1.32
1	9t	167	ARG	CD-NE	7.32	1.56	1.46
1	9y	27	VAL	CA-CB	-7.32	1.45	1.54
1	9B	196	PRO	CA-C	7.32	1.63	1.52
1	dm	224	PRO	CA-C	-7.32	1.41	1.52
1	dX	195	ASN	CA-C	7.32	1.62	1.53
1	1s	198	CYS	CA-C	7.32	1.62	1.52
1	fx	184	TRP	C-N	7.32	1.43	1.33
1	r	81	ASP	CA-C	7.32	1.62	1.52
1	gk	12	HIS	ND1-CE1	7.32	1.39	1.32
1	1F	55	MET	CA-C	7.32	1.62	1.52
1	iz	189	LEU	CA-C	-7.32	1.43	1.52
1	jc	1	PRO	N-CD	7.32	1.57	1.47
1	lH	11	VAL	CA-C	-7.32	1.44	1.52
1	50	110	THR	CA-C	-7.32	1.43	1.52
1	65	147	PRO	CA-C	7.32	1.63	1.52
1	7y	213	GLU	CA-C	-7.32	1.43	1.52
1	8u	36	VAL	N-CA	7.32	1.55	1.46
1	9n	207	PRO	N-CA	-7.32	1.42	1.47
1	bn	25	LYS	N-CA	-7.32	1.37	1.46
1	dr	37	ILE	CA-CB	7.32	1.58	1.54
1	ew	16	SER	CA-CB	7.32	1.63	1.53
1	gC	19	THR	CA-CB	-7.32	1.41	1.53
1	iI	44	SER	C-N	7.32	1.43	1.33
1	iS	73	ILE	CA-CB	7.32	1.64	1.54
1	j0	192	GLN	CA-CB	7.32	1.64	1.53
1	jo	207	PRO	N-CA	7.32	1.55	1.47
1	k3	83	LEU	N-CA	-7.32	1.37	1.46
1	lx	61	GLY	N-CA	7.32	1.51	1.44
1	2x	184	TRP	NE1-CE2	-7.32	1.29	1.37
1	3q	125	PRO	CA-CB	-7.32	1.46	1.53
1	5C	185	MET	CA-C	-7.32	1.43	1.52
1	65	214	MET	CA-C	7.32	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6j	105	ALA	N-CA	7.32	1.55	1.46
1	9t	115	ILE	N-CA	-7.32	1.38	1.46
1	bs	15	ILE	N-CA	7.32	1.54	1.46
1	bR	187	GLU	CA-CB	7.32	1.65	1.53
1	ci	221	VAL	CA-C	7.32	1.61	1.52
1	cw	143	ARG	CA-CB	7.32	1.64	1.53
1	1g	114	GLN	N-CA	-7.32	1.37	1.46
1	dy	154	ARG	CA-C	-7.32	1.43	1.52
1	dT	174	ALA	CA-C	7.32	1.62	1.52
1	o	141	ILE	C-N	7.32	1.43	1.33
1	R	20	LEU	CA-CB	7.32	1.64	1.53
1	hU	69	LEU	CA-C	7.32	1.62	1.52
1	iY	86	VAL	CA-C	7.32	1.61	1.52
1	jr	6	LEU	C-N	7.32	1.44	1.33
1	lG	29	GLU	CA-CB	7.32	1.65	1.53
1	lH	141	ILE	C-N	7.32	1.43	1.33
1	2w	11	VAL	CA-CB	-7.32	1.45	1.54
1	4Y	221	VAL	C-N	7.32	1.44	1.33
1	aB	71	GLU	CA-CB	7.32	1.64	1.53
1	aD	37	ILE	CA-CB	7.32	1.58	1.54
1	bk	67	GLN	CA-C	7.32	1.62	1.52
1	bn	11	VAL	CA-CB	-7.32	1.45	1.54
1	cl	146	SER	CA-CB	7.32	1.64	1.53
1	cL	121	ASN	N-CA	-7.32	1.37	1.46
1	dt	180	GLU	C-N	7.32	1.43	1.33
1	fp	188	THR	CA-C	-7.32	1.46	1.53
1	5	63	GLN	C-O	-7.32	1.15	1.24
1	33	153	ILE	CA-C	7.31	1.62	1.52
1	5O	12	HIS	CE1-NE2	-7.31	1.25	1.32
1	8B	154	ARG	CD-NE	7.31	1.56	1.46
1	9e	2	ILE	C-N	7.31	1.42	1.33
1	ec	78	ALA	CA-C	-7.31	1.43	1.52
1	fq	16	SER	CA-CB	7.31	1.64	1.53
1	fw	164	TYR	N-CA	-7.31	1.37	1.46
1	g9	59	VAL	C-N	7.31	1.44	1.33
1	jw	112	GLN	CA-C	-7.31	1.43	1.52
1	jR	194	ALA	CA-CB	7.31	1.65	1.53
1	kU	195	ASN	C-N	7.31	1.43	1.34
1	ll	15	ILE	N-CA	7.31	1.54	1.46
1	3k	158	LYS	CA-CB	7.31	1.63	1.53
1	55	1	PRO	C-N	7.31	1.42	1.33
1	5F	27	VAL	CA-CB	-7.31	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6P	135	ILE	C-N	7.31	1.43	1.33
1	7M	189	LEU	CA-C	-7.31	1.43	1.52
1	8k	92	GLU	CA-CB	7.31	1.63	1.53
1	dE	149	SER	C-N	7.31	1.43	1.33
1	f0	230	VAL	CA-C	-7.31	1.43	1.52
1	f3	87	HIS	ND1-CE1	7.31	1.39	1.32
1	fj	104	ILE	CA-C	-7.31	1.43	1.52
1	g7	133	TRP	NE1-CE2	-7.31	1.29	1.37
1	hz	110	THR	CA-C	-7.31	1.42	1.53
1	kb	187	GLU	N-CA	7.31	1.55	1.46
1	ll	150	ILE	C-N	7.31	1.44	1.33
1	lm	62	HIS	N-CA	7.31	1.55	1.46
1	lF	170	LYS	CA-C	7.31	1.62	1.52
1	4d	22	ALA	C-N	7.31	1.43	1.33
1	73	49	PRO	C-N	7.31	1.43	1.33
1	8t	202	LEU	CA-C	7.31	1.62	1.52
1	9r	230	VAL	CA-C	7.31	1.61	1.52
1	bo	20	LEU	CA-C	7.31	1.62	1.52
1	1a	16	SER	C-N	7.31	1.43	1.34
1	bX	9	GLN	CA-C	-7.31	1.44	1.52
1	d3	116	GLY	CA-C	-7.31	1.44	1.52
1	hv	226	HIS	ND1-CE1	7.31	1.39	1.32
1	jt	170	LYS	CA-CB	7.31	1.65	1.53
1	jB	12	HIS	CG-CD2	7.31	1.43	1.35
1	kN	48	THR	N-CA	7.31	1.58	1.45
1	2Y	141	ILE	CA-CB	-7.31	1.45	1.54
1	3B	129	ILE	CA-C	7.31	1.62	1.52
1	4l	51	ASP	N-CA	7.31	1.54	1.46
1	52	12	HIS	ND1-CE1	7.31	1.39	1.32
1	5l	12	HIS	ND1-CE1	7.31	1.39	1.32
1	5H	7	GLN	C-N	7.31	1.42	1.33
1	6k	41	SER	CA-CB	7.31	1.64	1.53
1	6o	150	ILE	CA-C	7.31	1.62	1.52
1	7e	108	THR	C-N	7.31	1.44	1.33
1	7s	226	HIS	CE1-NE2	7.31	1.39	1.32
1	7P	7	GLN	N-CA	-7.31	1.37	1.46
1	9M	160	PRO	CA-CB	7.31	1.64	1.53
1	aZ	229	ARG	CD-NE	7.31	1.56	1.46
1	cx	120	HIS	CE1-NE2	7.31	1.39	1.32
1	dk	87	HIS	ND1-CE1	7.31	1.39	1.32
1	dJ	131	LYS	N-CA	7.31	1.55	1.46
1	fR	91	ILE	CA-CB	7.31	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e	14	ALA	CA-C	7.31	1.62	1.52
1	j	140	LYS	N-CA	7.31	1.55	1.46
1	gp	120	HIS	CB-CG	-7.31	1.40	1.50
1	hA	202	LEU	CA-C	7.31	1.62	1.52
1	hF	225	GLY	CA-C	-7.31	1.42	1.51
1	is	68	MET	CA-C	7.31	1.62	1.52
1	24	123	PRO	CA-C	7.31	1.61	1.52
1	l1	90	PRO	C-N	7.31	1.43	1.33
1	4p	99	PRO	CA-C	-7.31	1.45	1.52
1	4I	131	LYS	N-CA	7.31	1.55	1.46
1	5f	152	ASP	CA-CB	7.31	1.65	1.53
1	6M	53	ASN	CA-C	7.31	1.62	1.52
1	7D	163	ASP	N-CA	-7.31	1.37	1.46
1	9P	130	TYR	CA-CB	7.31	1.65	1.53
1	dZ	44	SER	CA-C	-7.31	1.43	1.52
1	es	230	VAL	N-CA	7.31	1.55	1.46
1	eA	24	VAL	N-CA	-7.31	1.37	1.46
1	fE	168	PHE	CA-CB	7.31	1.64	1.53
1	1Y	166	ASP	N-CA	7.31	1.55	1.46
1	2b	43	LEU	N-CA	7.31	1.55	1.46
1	3u	225	GLY	N-CA	-7.31	1.35	1.45
1	5t	155	GLN	CA-CB	7.31	1.64	1.53
1	aO	84	HIS	ND1-CE1	7.31	1.39	1.32
1	dA	103	ASP	C-N	7.31	1.43	1.33
1	A	160	PRO	N-CA	-7.31	1.38	1.47
1	gH	196	PRO	C-O	-7.30	1.15	1.24
1	hK	184	TRP	NE1-CE2	-7.30	1.29	1.37
1	hX	154	ARG	CA-CB	7.30	1.66	1.53
1	hZ	80	TRP	NE1-CE2	-7.30	1.29	1.37
1	jd	97	ARG	CA-C	7.30	1.62	1.52
1	jo	114	GLN	CA-CB	7.30	1.64	1.53
1	6z	102	SER	CA-C	7.30	1.62	1.52
1	8o	82	ARG	CD-NE	7.30	1.56	1.46
1	ai	105	ALA	CA-CB	7.30	1.66	1.53
1	aT	202	LEU	CA-C	7.30	1.62	1.52
1	cA	2	ILE	CA-CB	-7.30	1.45	1.53
1	dx	172	LEU	C-N	7.30	1.43	1.33
1	dP	221	VAL	CA-C	7.30	1.60	1.53
1	eL	69	LEU	N-CA	-7.30	1.37	1.46
1	fg	63	GLN	N-CA	-7.30	1.37	1.46
1	gA	32	PHE	N-CA	7.30	1.55	1.46
1	iz	78	ALA	CA-CB	7.30	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jS	80	TRP	CA-C	-7.30	1.43	1.52
1	4c	170	LYS	CA-C	-7.30	1.43	1.52
1	6s	47	ALA	CA-C	7.30	1.61	1.52
1	7W	123	PRO	CA-CB	7.30	1.64	1.53
1	8s	191	VAL	CA-C	7.30	1.64	1.52
1	aP	226	HIS	ND1-CE1	7.30	1.39	1.32
1	cf	5	ASN	N-CA	-7.30	1.36	1.46
1	1y	169	TYR	N-CA	-7.30	1.37	1.46
1	jO	87	HIS	CG-CD2	-7.30	1.27	1.35
1	lO	133	TRP	CA-CB	7.30	1.64	1.53
1	7v	114	GLN	C-O	-7.30	1.15	1.24
1	a6	73	ILE	CA-CB	7.30	1.62	1.54
1	aX	42	ALA	CA-CB	7.30	1.64	1.53
1	dp	97	ARG	N-CA	-7.30	1.36	1.45
1	eM	186	THR	C-N	7.30	1.42	1.33
1	i9	151	LEU	CA-CB	7.30	1.65	1.53
1	ln	120	HIS	ND1-CE1	7.30	1.39	1.32
1	lC	72	THR	C-N	7.30	1.43	1.33
1	32	9	GLN	CA-C	-7.30	1.43	1.52
1	3g	228	ALA	CA-CB	7.30	1.65	1.53
1	4n	82	ARG	CA-C	7.30	1.62	1.52
1	4w	158	LYS	CA-CB	7.30	1.63	1.53
1	6q	205	LEU	CA-C	7.30	1.62	1.52
1	92	97	ARG	CD-NE	7.30	1.56	1.46
1	ab	115	ILE	CA-CB	-7.30	1.45	1.54
1	cV	124	ILE	CA-CB	-7.30	1.46	1.53
1	it	49	PRO	CA-C	-7.30	1.42	1.52
1	iO	25	LYS	N-CA	-7.30	1.36	1.46
1	l2	90	PRO	CA-CB	-7.30	1.43	1.53
1	5B	43	LEU	CA-C	7.30	1.62	1.52
1	7s	153	ILE	C-N	7.30	1.43	1.33
1	9t	18	ARG	C-N	7.30	1.43	1.33
1	bW	117	TRP	NE1-CE2	-7.30	1.29	1.37
1	cy	195	ASN	CA-C	7.30	1.61	1.53
1	dW	160	PRO	C-N	7.30	1.43	1.33
1	ea	145	TYR	CA-C	-7.30	1.43	1.52
1	fD	49	PRO	C-N	7.30	1.43	1.33
1	gF	56	LEU	N-CA	7.30	1.55	1.46
1	gJ	172	LEU	C-N	7.30	1.43	1.33
1	1H	6	LEU	CA-C	7.30	1.62	1.52
1	hh	59	VAL	C-N	7.30	1.44	1.33
1	im	109	SER	CA-C	-7.30	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jY	18	ARG	CA-C	7.30	1.62	1.52
1	kH	176	GLN	C-N	7.30	1.42	1.33
1	5b	209	ALA	N-CA	-7.30	1.36	1.46
1	5A	70	LYS	C-N	7.30	1.43	1.34
1	6i	133	TRP	NE1-CE2	7.30	1.45	1.37
1	6J	1	PRO	N-CD	7.30	1.57	1.47
1	7h	170	LYS	N-CA	-7.30	1.37	1.46
1	7A	85	PRO	CA-CB	7.30	1.64	1.53
1	8N	12	HIS	ND1-CE1	7.30	1.39	1.32
1	aJ	214	MET	CA-CB	7.30	1.65	1.53
1	bd	167	ARG	CD-NE	7.30	1.56	1.46
1	cy	144	MET	C-N	7.30	1.43	1.33
1	B	168	PHE	C-N	7.30	1.43	1.33
1	j1	55	MET	C-N	7.29	1.43	1.33
1	5b	84	HIS	CA-CB	7.29	1.63	1.53
1	5I	173	ARG	CA-CB	7.29	1.64	1.53
1	aK	146	SER	CA-C	7.29	1.61	1.53
1	bn	57	ASN	C-N	7.29	1.43	1.33
1	dN	201	ILE	CA-CB	7.29	1.62	1.54
1	f2	90	PRO	N-CA	-7.29	1.38	1.47
1	fH	146	SER	CA-C	7.29	1.61	1.52
1	gL	159	GLU	CA-C	7.29	1.61	1.53
1	in	67	GLN	C-O	-7.29	1.15	1.24
1	1Y	23	TRP	NE1-CE2	-7.29	1.29	1.37
1	jW	6	LEU	CA-CB	7.29	1.64	1.53
1	kr	142	VAL	CA-C	-7.29	1.44	1.52
1	2g	62	HIS	CE1-NE2	7.29	1.39	1.32
1	43	194	ALA	CA-CB	7.29	1.63	1.53
1	52	110	THR	CA-C	-7.29	1.43	1.53
1	8u	184	TRP	N-CA	-7.29	1.37	1.46
1	8G	29	GLU	CA-C	7.29	1.59	1.52
1	bo	200	THR	C-N	7.29	1.43	1.33
1	bz	2	ILE	CA-C	-7.29	1.44	1.53
1	ci	149	SER	CA-C	-7.29	1.43	1.52
1	dT	21	ASN	C-N	7.29	1.43	1.33
1	ej	160	PRO	CA-C	7.29	1.62	1.52
1	y	193	ASN	CA-CB	7.29	1.65	1.53
1	R	90	PRO	CA-CB	-7.29	1.43	1.53
1	kL	110	THR	CA-C	-7.29	1.43	1.52
1	lC	114	GLN	CA-CB	7.29	1.64	1.53
1	3f	12	HIS	N-CA	7.29	1.54	1.46
1	53	173	ARG	C-N	7.29	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5E	190	LEU	C-O	-7.29	1.15	1.24
1	65	153	ILE	CA-C	7.29	1.60	1.52
1	6R	21	ASN	CA-C	7.29	1.62	1.52
1	8P	48	THR	CA-C	7.29	1.61	1.53
1	9g	63	GLN	CA-CB	7.29	1.64	1.53
1	9Y	91	ILE	N-CA	-7.29	1.37	1.46
1	b8	49	PRO	N-CA	-7.29	1.38	1.47
1	eC	184	TRP	CA-CB	7.29	1.64	1.53
1	r	22	ALA	N-CA	-7.29	1.37	1.46
1	R	10	MET	CA-C	7.29	1.62	1.52
1	kr	3	VAL	CA-CB	-7.29	1.45	1.54
1	2Q	30	LYS	CA-C	-7.29	1.43	1.52
1	cl	226	HIS	CG-ND1	7.29	1.46	1.38
1	h2	209	ALA	C-N	7.29	1.43	1.33
1	iV	37	ILE	CA-C	7.29	1.58	1.52
1	j0	107	THR	N-CA	7.29	1.55	1.46
1	je	117	TRP	NE1-CE2	-7.29	1.29	1.37
1	kd	14	ALA	CA-C	7.29	1.61	1.52
1	32	45	GLU	CA-C	-7.29	1.43	1.52
1	3x	87	HIS	CG-ND1	7.29	1.46	1.38
1	1c	37	ILE	N-CA	-7.29	1.38	1.46
1	dd	149	SER	C-N	7.29	1.42	1.34
1	eD	163	ASP	CA-CB	7.29	1.65	1.53
1	f7	94	GLY	N-CA	7.29	1.55	1.45
1	1S	197	ASP	CA-C	7.29	1.62	1.52
1	jH	64	ALA	C-N	7.29	1.43	1.33
1	3j	97	ARG	CD-NE	7.29	1.56	1.46
1	7d	3	VAL	CA-CB	7.29	1.62	1.54
1	86	33	SER	C-O	-7.29	1.18	1.24
1	8r	56	LEU	CA-CB	7.29	1.64	1.53
1	bz	133	TRP	NE1-CE2	-7.29	1.29	1.37
1	gl	117	TRP	C-N	7.29	1.44	1.33
1	in	229	ARG	CD-NE	7.29	1.56	1.46
1	iz	36	VAL	CA-CB	-7.29	1.45	1.54
1	iQ	59	VAL	N-CA	-7.29	1.37	1.46
1	1S	199	LYS	C-N	7.29	1.43	1.33
1	iU	226	HIS	CD2-NE2	7.29	1.45	1.37
1	1T	32	PHE	C-N	7.29	1.42	1.33
1	jm	58	THR	C-N	7.29	1.43	1.33
1	lr	115	ILE	CA-C	-7.29	1.43	1.52
1	2Y	118	MET	CA-C	7.29	1.62	1.52
1	3s	132	ARG	CA-C	7.29	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3Z	85	PRO	CA-C	7.29	1.59	1.53
1	5a	226	HIS	ND1-CE1	7.29	1.39	1.32
1	9y	175	GLU	CA-C	7.29	1.62	1.52
1	a0	84	HIS	N-CA	-7.29	1.38	1.46
1	b3	87	HIS	ND1-CE1	7.29	1.39	1.32
1	1r	102	SER	C-N	7.29	1.44	1.33
1	fT	32	PHE	CA-CB	7.29	1.65	1.53
1	hZ	6	LEU	C-N	7.28	1.43	1.33
1	i0	172	LEU	CA-CB	7.28	1.64	1.53
1	ko	123	PRO	C-N	7.28	1.39	1.33
1	kx	4	GLN	CA-CB	7.28	1.64	1.53
1	3m	126	VAL	CA-C	7.28	1.62	1.52
1	5W	84	HIS	N-CA	-7.28	1.39	1.46
1	95	18	ARG	N-CA	-7.28	1.37	1.46
1	aW	139	ASN	CA-CB	7.28	1.64	1.53
1	dc	53	ASN	N-CA	-7.28	1.37	1.46
1	f2	190	LEU	N-CA	7.28	1.55	1.46
1	f4	28	GLU	CA-C	-7.28	1.43	1.52
1	fG	187	GLU	CA-C	7.28	1.62	1.52
1	fS	184	TRP	CA-CB	7.28	1.64	1.53
1	iL	226	HIS	CA-CB	7.28	1.64	1.53
1	4G	33	SER	C-O	-7.28	1.18	1.24
1	5t	149	SER	C-N	7.28	1.42	1.34
1	7s	108	THR	CA-C	7.28	1.62	1.52
1	9i	80	TRP	C-N	7.28	1.43	1.33
1	hu	161	PHE	C-N	7.28	1.43	1.33
1	1U	5	ASN	C-N	7.28	1.44	1.34
1	k6	47	ALA	CA-C	7.28	1.62	1.52
1	2A	68	MET	C-N	7.28	1.43	1.33
1	2I	11	VAL	CA-C	7.28	1.61	1.52
1	3W	149	SER	CA-C	-7.28	1.43	1.52
1	ap	53	ASN	CA-CB	7.28	1.64	1.53
1	bg	11	VAL	C-O	-7.28	1.16	1.24
1	ca	188	THR	CA-C	7.28	1.61	1.52
1	cg	140	LYS	N-CA	-7.28	1.37	1.46
1	dC	126	VAL	C-N	7.28	1.42	1.33
1	eq	219	GLN	CA-CB	7.28	1.63	1.53
1	N	21	ASN	N-CA	-7.28	1.37	1.46
1	kJ	124	ILE	CA-C	7.28	1.59	1.53
1	lB	56	LEU	C-N	7.28	1.44	1.33
1	2J	173	ARG	CD-NE	7.28	1.56	1.46
1	4s	36	VAL	CA-CB	-7.28	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5h	153	ILE	C-O	-7.28	1.17	1.23
1	5I	116	GLY	CA-C	-7.28	1.43	1.52
1	8Z	7	GLN	CA-C	7.28	1.62	1.52
1	ac	76	GLU	N-CA	-7.28	1.37	1.46
1	aO	146	SER	CA-CB	7.28	1.65	1.53
1	b8	117	TRP	NE1-CE2	-7.28	1.29	1.37
1	bp	184	TRP	C-O	-7.28	1.15	1.24
1	cx	188	THR	CA-CB	7.28	1.64	1.53
1	G	135	ILE	C-N	7.28	1.44	1.33
1	6	129	ILE	CA-CB	-7.28	1.45	1.54
1	hG	105	ALA	CA-C	7.28	1.64	1.52
1	iI	190	LEU	CA-CB	7.28	1.64	1.53
1	jq	124	ILE	CA-C	-7.28	1.47	1.53
1	jy	65	ALA	CA-CB	7.28	1.64	1.53
1	jQ	98	GLU	CA-C	7.28	1.61	1.53
1	jT	208	ALA	CA-C	7.28	1.61	1.52
1	42	41	SER	CA-C	-7.28	1.43	1.52
1	5x	26	VAL	C-O	-7.28	1.15	1.24
1	6g	114	GLN	C-N	7.28	1.43	1.33
1	6G	45	GLU	CA-CB	7.28	1.62	1.53
1	9V	226	HIS	ND1-CE1	7.28	1.39	1.32
1	a4	113	GLU	CA-C	-7.28	1.43	1.52
1	bl	187	GLU	C-N	7.28	1.43	1.33
1	cz	62	HIS	CE1-NE2	7.28	1.39	1.32
1	dV	124	ILE	CA-CB	-7.28	1.47	1.54
1	ef	187	GLU	C-N	-7.28	1.25	1.33
1	eh	16	SER	CA-C	7.28	1.61	1.52
1	ez	158	LYS	CA-CB	7.28	1.63	1.53
1	eQ	135	ILE	CA-CB	-7.28	1.45	1.54
1	f2	226	HIS	CG-CD2	7.28	1.43	1.35
1	fj	153	ILE	CA-CB	7.28	1.64	1.54
1	gr	159	GLU	CA-CB	7.28	1.64	1.53
1	gu	87	HIS	ND1-CE1	7.28	1.39	1.32
1	gN	12	HIS	CE1-NE2	7.28	1.39	1.32
1	1M	210	THR	N-CA	7.28	1.55	1.45
1	jn	96	MET	CA-CB	7.28	1.65	1.53
1	lr	141	ILE	C-N	7.28	1.42	1.34
1	4h	40	PHE	CA-C	7.28	1.62	1.52
1	5c	55	MET	N-CA	7.28	1.55	1.46
1	5M	82	ARG	C-N	7.28	1.44	1.33
1	75	83	LEU	N-CA	-7.28	1.37	1.46
1	8b	217	ALA	N-CA	-7.28	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dl	180	GLU	CA-CB	7.28	1.65	1.53
1	en	158	LYS	CA-C	7.28	1.62	1.52
1	y	70	LYS	CA-C	-7.28	1.43	1.52
1	O	114	GLN	CA-CB	7.28	1.64	1.53
1	is	109	SER	CA-C	-7.27	1.43	1.52
1	kP	175	GLU	CA-CB	7.27	1.64	1.53
1	49	209	ALA	C-N	7.27	1.43	1.33
1	5g	120	HIS	ND1-CE1	7.27	1.39	1.32
1	7u	10	MET	C-N	7.27	1.43	1.33
1	b8	124	ILE	N-CA	7.27	1.51	1.46
1	dx	120	HIS	N-CA	7.27	1.55	1.45
1	eE	70	LYS	CA-CB	7.27	1.64	1.53
1	fW	86	VAL	CA-CB	7.27	1.61	1.54
1	o	201	ILE	CA-C	-7.27	1.43	1.52
1	hq	68	MET	CA-C	7.27	1.62	1.52
1	i5	165	VAL	CA-C	7.27	1.62	1.52
1	ib	140	LYS	CA-C	7.27	1.62	1.52
1	1V	211	LEU	C-N	7.27	1.43	1.33
1	kB	223	GLY	C-N	7.27	1.43	1.33
1	lf	23	TRP	NE1-CE2	7.27	1.45	1.37
1	lw	142	VAL	N-CA	7.27	1.55	1.46
1	4x	220	GLY	CA-C	-7.27	1.43	1.52
1	52	68	MET	CA-C	7.27	1.62	1.52
1	5s	128	GLU	CA-CB	7.27	1.64	1.53
1	6U	12	HIS	CG-CD2	7.27	1.43	1.35
1	7Q	195	ASN	CA-C	7.27	1.61	1.53
1	8g	79	GLU	CA-C	7.27	1.62	1.52
1	9k	184	TRP	NE1-CE2	-7.27	1.29	1.37
1	aI	87	HIS	ND1-CE1	7.27	1.39	1.32
1	cU	218	CYS	CA-C	-7.27	1.42	1.53
1	df	2	ILE	C-N	7.27	1.40	1.33
1	dC	175	GLU	CA-CB	7.27	1.64	1.53
1	fA	226	HIS	ND1-CE1	7.27	1.39	1.32
1	S	6	LEU	CA-CB	7.27	1.67	1.54
1	gn	184	TRP	CA-C	7.27	1.62	1.52
1	kq	11	VAL	CA-C	-7.27	1.44	1.52
1	4K	13	GLN	CA-C	7.27	1.61	1.52
1	6S	28	GLU	CA-C	-7.27	1.43	1.52
1	dO	161	PHE	CA-CB	7.27	1.64	1.53
1	eC	80	TRP	CA-CB	7.27	1.64	1.53
1	gN	37	ILE	CA-C	7.27	1.60	1.52
1	hr	139	ASN	CA-CB	7.27	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hW	189	LEU	CA-CB	7.27	1.64	1.53
1	1T	100	ARG	CD-NE	7.27	1.56	1.46
1	ji	190	LEU	CA-CB	7.27	1.64	1.53
1	kN	124	ILE	CA-C	7.27	1.58	1.53
1	2W	61	GLY	CA-C	7.27	1.60	1.52
1	3Z	134	ILE	N-CA	7.27	1.54	1.46
1	52	50	GLN	N-CA	-7.27	1.37	1.46
1	5A	5	ASN	CA-CB	7.27	1.64	1.53
1	7v	230	VAL	CA-C	-7.27	1.42	1.52
1	9D	199	LYS	C-N	7.27	1.43	1.33
1	9Q	209	ALA	C-O	7.27	1.32	1.24
1	bN	37	ILE	CA-C	7.27	1.59	1.52
1	eH	119	THR	N-CA	7.27	1.55	1.46
1	fj	147	PRO	CA-CB	7.27	1.64	1.53
1	fl	39	MET	CA-C	7.27	1.62	1.52
1	fq	12	HIS	ND1-CE1	7.27	1.39	1.32
1	gb	162	ARG	NE-CZ	-7.27	1.25	1.33
1	48	135	ILE	N-CA	7.27	1.55	1.46
1	6h	24	VAL	CA-CB	7.27	1.62	1.54
1	7A	154	ARG	C-N	7.27	1.43	1.33
1	7O	5	ASN	CA-CB	7.27	1.64	1.54
1	ap	155	GLN	N-CA	-7.27	1.37	1.46
1	aJ	35	GLU	CA-C	7.27	1.62	1.52
1	be	123	PRO	C-N	7.27	1.39	1.33
1	cs	71	GLU	C-N	7.27	1.43	1.33
1	cO	166	ASP	CA-C	7.27	1.62	1.52
1	d1	114	GLN	N-CA	-7.27	1.37	1.46
1	d8	12	HIS	ND1-CE1	7.27	1.39	1.32
1	e4	126	VAL	CA-C	-7.27	1.44	1.52
1	f2	154	ARG	CA-CB	7.27	1.64	1.53
1	fC	125	PRO	CA-CB	-7.27	1.46	1.53
1	fI	111	LEU	N-CA	-7.27	1.37	1.46
1	b	36	VAL	CA-CB	-7.27	1.45	1.54
1	C	68	MET	N-CA	7.27	1.55	1.46
1	R	156	GLY	N-CA	7.27	1.54	1.44
1	gH	60	GLY	C-N	7.27	1.42	1.33
1	5O	90	PRO	C-N	7.27	1.42	1.33
1	8H	113	GLU	C-N	-7.27	1.24	1.33
1	aF	131	LYS	N-CA	7.27	1.55	1.46
1	bC	217	ALA	CA-C	7.27	1.62	1.52
1	fp	102	SER	N-CA	-7.27	1.37	1.46
1	c	153	ILE	CA-CB	7.27	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ge	229	ARG	C-N	7.26	1.41	1.33
1	gg	72	THR	CA-C	7.26	1.62	1.52
1	gm	50	GLN	CA-CB	7.26	1.65	1.53
1	gQ	88	ALA	C-N	7.26	1.44	1.33
1	is	73	ILE	CA-CB	7.26	1.63	1.54
1	iy	71	GLU	CA-C	7.26	1.62	1.52
1	kW	24	VAL	C-N	7.26	1.43	1.33
1	l4	135	ILE	CA-CB	7.26	1.64	1.54
1	lK	91	ILE	CA-CB	-7.26	1.46	1.54
1	2s	123	PRO	CA-C	7.26	1.61	1.52
1	2x	197	ASP	CA-C	-7.26	1.43	1.52
1	3H	55	MET	CA-C	7.26	1.62	1.52
1	4N	134	ILE	CA-CB	-7.26	1.46	1.54
1	55	226	HIS	ND1-CE1	7.26	1.39	1.32
1	5w	67	GLN	C-N	7.26	1.43	1.33
1	6I	180	GLU	C-N	7.26	1.42	1.33
1	9n	167	ARG	CD-NE	7.26	1.56	1.46
1	9t	35	GLU	C-N	7.26	1.43	1.33
1	9U	61	GLY	N-CA	7.26	1.51	1.44
1	br	11	VAL	CA-C	7.26	1.61	1.52
1	dj	146	SER	CA-C	7.26	1.60	1.52
1	eL	19	THR	N-CA	7.26	1.55	1.46
1	fT	174	ALA	N-CA	-7.26	1.37	1.46
1	gi	85	PRO	CA-CB	-7.26	1.44	1.53
1	hS	68	MET	N-CA	-7.26	1.37	1.46
1	iW	15	ILE	CA-CB	-7.26	1.46	1.54
1	2S	1	PRO	N-CD	7.26	1.57	1.47
1	g8	132	ARG	CD-NE	7.26	1.56	1.46
1	gp	19	THR	N-CA	7.26	1.55	1.46
1	gt	82	ARG	CA-C	-7.26	1.43	1.52
1	gV	3	VAL	CA-C	-7.26	1.43	1.52
1	h5	87	HIS	C-N	7.26	1.43	1.33
1	1M	215	MET	CA-C	7.26	1.62	1.52
1	iQ	26	VAL	CA-CB	7.26	1.63	1.54
1	kp	132	ARG	CD-NE	7.26	1.56	1.46
1	2t	87	HIS	CA-CB	7.26	1.64	1.53
1	2D	9	GLN	CA-C	7.26	1.61	1.52
1	5O	140	LYS	CA-C	7.26	1.62	1.52
1	77	24	VAL	CA-CB	-7.26	1.45	1.54
1	eC	2	ILE	CA-CB	-7.26	1.45	1.54
1	g7	15	ILE	CA-CB	7.26	1.61	1.54
1	iG	219	GLN	CA-CB	7.26	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jT	134	ILE	CA-CB	7.26	1.63	1.54
1	kd	26	VAL	N-CA	-7.26	1.38	1.46
1	2K	98	GLU	C-N	-7.26	1.25	1.33
1	3z	17	PRO	N-CD	-7.26	1.37	1.47
1	3M	123	PRO	CA-C	-7.26	1.44	1.52
1	7R	125	PRO	CA-C	7.26	1.59	1.53
1	b0	93	PRO	CA-CB	7.26	1.62	1.53
1	br	23	TRP	CA-CB	7.26	1.64	1.53
1	ca	32	PHE	CA-CB	7.26	1.62	1.53
1	fU	84	HIS	ND1-CE1	7.26	1.39	1.32
1	fW	42	ALA	N-CA	-7.26	1.37	1.46
1	gv	55	MET	CA-C	-7.26	1.43	1.52
1	i9	60	GLY	C-N	7.26	1.40	1.33
1	iC	115	ILE	CA-C	-7.26	1.44	1.52
1	kM	87	HIS	C-N	7.26	1.43	1.33
1	3l	132	ARG	N-CA	-7.26	1.37	1.46
1	3p	165	VAL	C-N	7.26	1.43	1.33
1	4a	64	ALA	CA-C	7.26	1.62	1.52
1	4B	129	ILE	C-N	7.26	1.43	1.33
1	4J	188	THR	N-CA	7.26	1.55	1.46
1	6Y	152	ASP	CA-C	-7.26	1.42	1.52
1	7B	62	HIS	CE1-NE2	7.26	1.39	1.32
1	cs	80	TRP	NE1-CE2	-7.26	1.29	1.37
1	cV	59	VAL	C-O	-7.26	1.16	1.24
1	ea	226	HIS	ND1-CE1	7.26	1.39	1.32
1	fm	154	ARG	N-CA	-7.26	1.37	1.46
1	gm	18	ARG	N-CA	-7.26	1.37	1.46
1	gy	30	LYS	CA-C	7.26	1.59	1.52
1	h1	62	HIS	CA-C	7.26	1.62	1.53
1	hT	125	PRO	C-N	7.26	1.42	1.34
1	jn	88	ALA	CA-C	7.26	1.62	1.52
1	k4	16	SER	CA-C	-7.26	1.44	1.53
1	kQ	148	THR	CA-C	-7.26	1.44	1.52
1	2t	105	ALA	C-N	7.26	1.42	1.33
1	2A	133	TRP	NE1-CE2	-7.26	1.29	1.37
1	31	207	PRO	N-CA	-7.26	1.38	1.47
1	8f	62	HIS	CA-C	-7.26	1.43	1.53
1	9l	170	LYS	CA-CB	7.26	1.65	1.53
1	9y	190	LEU	CA-CB	7.26	1.64	1.53
1	aH	115	ILE	C-N	7.26	1.42	1.33
1	bf	87	HIS	ND1-CE1	7.26	1.39	1.32
1	bQ	209	ALA	CA-CB	7.26	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dJ	100	ARG	CA-CB	7.26	1.65	1.53
1	ex	226	HIS	ND1-CE1	7.26	1.39	1.32
1	gR	175	GLU	C-N	7.25	1.43	1.33
1	hf	219	GLN	C-N	7.25	1.42	1.33
1	k9	40	PHE	CA-CB	7.25	1.64	1.53
1	lt	227	LYS	CA-CB	7.25	1.63	1.53
1	66	80	TRP	CA-C	7.25	1.62	1.52
1	6x	74	ASN	N-CA	-7.25	1.37	1.46
1	7s	37	ILE	CA-CB	-7.25	1.44	1.54
1	e2	28	GLU	CA-CB	7.25	1.64	1.53
1	1t	9	GLN	CA-CB	7.25	1.64	1.53
1	fv	53	ASN	C-N	7.25	1.43	1.33
1	gc	178	SER	CA-C	-7.25	1.43	1.53
1	hA	72	THR	N-CA	7.25	1.55	1.46
1	hS	158	LYS	C-N	7.25	1.43	1.33
1	iE	114	GLN	CA-C	7.25	1.62	1.52
1	j2	77	ALA	N-CA	-7.25	1.36	1.46
1	kh	53	ASN	N-CA	-7.25	1.37	1.46
1	23	108	THR	CA-CB	7.25	1.64	1.53
1	kE	23	TRP	CZ2-CH2	7.25	1.51	1.37
1	2p	146	SER	C-N	-7.25	1.25	1.34
1	35	95	GLN	C-N	7.25	1.43	1.33
1	3h	77	ALA	N-CA	-7.25	1.37	1.46
1	40	58	THR	CA-C	-7.25	1.42	1.52
1	4e	104	ILE	C-N	7.25	1.43	1.33
1	4h	142	VAL	CA-C	-7.25	1.44	1.52
1	4k	226	HIS	CE1-NE2	7.25	1.39	1.32
1	4C	110	THR	N-CA	7.25	1.54	1.45
1	5K	82	ARG	CA-CB	7.25	1.64	1.53
1	8u	121	ASN	CA-C	7.25	1.58	1.52
1	8R	87	HIS	CA-C	-7.25	1.43	1.53
1	9Z	196	PRO	CA-C	7.25	1.62	1.52
1	ax	73	ILE	CA-C	7.25	1.62	1.52
1	bc	126	VAL	CA-C	7.25	1.62	1.52
1	bx	148	THR	CA-C	-7.25	1.43	1.52
1	f	61	GLY	N-CA	7.25	1.55	1.45
1	t	10	MET	CA-C	-7.25	1.42	1.53
1	F	78	ALA	CA-CB	7.25	1.64	1.53
1	I	125	PRO	CA-C	7.25	1.59	1.53
1	hI	40	PHE	CA-CB	7.25	1.64	1.53
1	jo	136	LEU	CA-C	7.25	1.62	1.52
1	lg	44	SER	CA-CB	7.25	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lB	48	THR	C-N	7.25	1.43	1.33
1	2Z	180	GLU	CA-C	-7.25	1.43	1.52
1	3s	61	GLY	CA-C	-7.25	1.44	1.52
1	4S	211	LEU	C-N	7.25	1.43	1.33
1	4T	87	HIS	CB-CG	7.25	1.60	1.50
1	5S	105	ALA	N-CA	-7.25	1.36	1.46
1	6o	166	ASP	CA-CB	7.25	1.64	1.53
1	7j	204	ALA	CA-C	7.25	1.62	1.52
1	8M	45	GLU	N-CA	7.25	1.54	1.46
1	aG	84	HIS	CE1-NE2	-7.25	1.25	1.32
1	aN	183	ASN	CA-CB	7.25	1.64	1.53
1	bB	173	ARG	CA-C	7.25	1.62	1.52
1	bR	75	GLU	N-CA	7.25	1.54	1.46
1	c0	143	ARG	CD-NE	7.25	1.56	1.46
1	cV	23	TRP	C-N	7.25	1.42	1.34
1	1l	66	MET	CA-C	7.25	1.62	1.52
1	ef	164	TYR	CA-C	7.25	1.62	1.52
1	1B	197	ASP	CA-CB	7.25	1.64	1.53
1	gh	205	LEU	CA-CB	7.25	1.64	1.53
1	id	164	TYR	CA-CB	7.25	1.64	1.53
1	ky	226	HIS	ND1-CE1	7.25	1.39	1.32
1	lE	55	MET	C-N	7.25	1.43	1.33
1	3P	121	ASN	CA-C	7.25	1.58	1.52
1	4S	23	TRP	CA-CB	7.25	1.64	1.53
1	57	164	TYR	CA-C	7.25	1.62	1.52
1	60	67	GLN	CA-C	7.25	1.62	1.52
1	63	12	HIS	ND1-CE1	7.25	1.39	1.32
1	6w	62	HIS	CE1-NE2	7.25	1.39	1.32
1	6W	138	LEU	CA-C	7.25	1.62	1.52
1	7G	37	ILE	CA-CB	7.25	1.58	1.54
1	Z	203	LYS	CA-CB	7.25	1.64	1.53
1	cE	121	ASN	N-CA	7.25	1.54	1.46
1	cZ	208	ALA	CA-C	7.25	1.62	1.52
1	d0	37	ILE	N-CA	-7.25	1.37	1.46
1	1n	153	ILE	CA-C	-7.25	1.42	1.52
1	fi	135	ILE	CA-C	7.25	1.61	1.52
1	gt	135	ILE	CA-C	7.25	1.61	1.52
1	jL	32	PHE	N-CA	7.25	1.55	1.46
1	kF	186	THR	CA-CB	-7.25	1.41	1.53
1	38	81	ASP	C-N	7.25	1.43	1.33
1	4u	9	GLN	CA-C	-7.25	1.43	1.52
1	4S	176	GLN	C-N	7.25	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	53	2	ILE	CA-C	7.25	1.61	1.53
1	5J	41	SER	CA-C	-7.25	1.43	1.52
1	69	89	GLY	C-N	-7.25	1.24	1.33
1	9P	95	GLN	CA-C	7.25	1.61	1.52
1	a6	226	HIS	C-N	7.25	1.43	1.33
1	iE	115	ILE	C-N	7.25	1.43	1.33
1	jF	23	TRP	C-N	7.25	1.41	1.34
1	k4	90	PRO	N-CA	-7.25	1.38	1.47
1	kX	128	GLU	C-N	7.25	1.43	1.33
1	ls	199	LYS	CA-CB	7.25	1.64	1.53
1	2H	205	LEU	CA-C	7.25	1.62	1.52
1	4n	140	LYS	CA-CB	7.25	1.64	1.53
1	6x	153	ILE	C-N	7.25	1.42	1.33
1	7S	208	ALA	CA-C	7.25	1.62	1.53
1	bt	181	VAL	CA-CB	-7.25	1.46	1.54
1	bG	120	HIS	C-N	7.25	1.40	1.33
1	c3	115	ILE	N-CA	-7.25	1.37	1.46
1	c8	86	VAL	CA-CB	-7.25	1.44	1.54
1	dN	92	GLU	CA-C	-7.25	1.43	1.52
1	f4	12	HIS	ND1-CE1	7.25	1.39	1.32
1	gQ	197	ASP	CA-C	-7.25	1.42	1.52
1	hD	1	PRO	N-CD	7.25	1.57	1.47
1	ij	199	LYS	CA-C	7.25	1.62	1.52
1	jr	139	ASN	CA-CB	7.25	1.64	1.53
1	jB	143	ARG	CD-NE	7.25	1.56	1.46
1	kq	116	GLY	CA-C	-7.25	1.44	1.52
1	kF	226	HIS	ND1-CE1	7.25	1.39	1.32
1	4J	12	HIS	CA-CB	7.25	1.64	1.53
1	58	12	HIS	CA-C	-7.25	1.43	1.52
1	5w	62	HIS	CE1-NE2	7.25	1.39	1.32
1	6F	115	ILE	CA-CB	7.25	1.64	1.54
1	8f	69	LEU	CA-C	7.25	1.62	1.52
1	cK	114	GLN	C-N	7.25	1.42	1.33
1	el	138	LEU	C-N	7.25	1.43	1.34
1	f8	170	LYS	CA-C	-7.25	1.43	1.52
1	hf	132	ARG	C-N	7.24	1.43	1.33
1	hZ	62	HIS	CE1-NE2	7.24	1.39	1.32
1	ik	84	HIS	CA-C	7.24	1.60	1.52
1	1P	161	PHE	CA-CB	7.24	1.65	1.53
1	iF	74	ASN	CA-CB	7.24	1.64	1.53
1	kP	92	GLU	CA-C	7.24	1.60	1.52
1	lg	124	ILE	CA-CB	7.24	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lM	37	ILE	CA-C	7.24	1.58	1.52
1	2d	84	HIS	ND1-CE1	7.24	1.39	1.32
1	2O	181	VAL	CA-CB	-7.24	1.46	1.54
1	4k	32	PHE	CA-CB	7.24	1.61	1.52
1	4D	124	ILE	CA-C	7.24	1.58	1.53
1	5C	21	ASN	C-N	7.24	1.43	1.33
1	7i	132	ARG	CA-CB	7.24	1.64	1.53
1	9p	187	GLU	CA-C	7.24	1.62	1.52
1	aa	114	GLN	C-N	7.24	1.41	1.34
1	br	23	TRP	NE1-CE2	7.24	1.45	1.37
1	bK	67	GLN	CA-C	-7.24	1.43	1.52
1	bX	201	ILE	CA-CB	7.24	1.63	1.54
1	c2	135	ILE	C-N	7.24	1.43	1.33
1	ct	45	GLU	N-CA	-7.24	1.37	1.46
1	de	33	SER	CA-C	-7.24	1.45	1.53
1	a	62	HIS	ND1-CE1	7.24	1.39	1.32
1	J	101	GLY	CA-C	-7.24	1.43	1.52
1	2r	209	ALA	C-N	7.24	1.42	1.33
1	2t	92	GLU	CA-C	-7.24	1.46	1.52
1	7r	32	PHE	C-N	7.24	1.41	1.33
1	8A	40	PHE	CA-CB	7.24	1.64	1.53
1	ap	194	ALA	N-CA	-7.24	1.36	1.46
1	aD	57	ASN	C-N	7.24	1.43	1.33
1	c1	90	PRO	C-N	7.24	1.42	1.33
1	1e	99	PRO	CA-CB	7.24	1.62	1.54
1	cB	120	HIS	ND1-CE1	7.24	1.39	1.32
1	fo	163	ASP	CA-CB	7.24	1.64	1.53
1	fM	75	GLU	CA-CB	7.24	1.64	1.53
1	1R	105	ALA	CA-CB	7.24	1.65	1.53
1	j8	8	GLY	CA-C	-7.24	1.43	1.52
1	jK	80	TRP	NE1-CE2	-7.24	1.29	1.37
1	ki	137	GLY	CA-C	-7.24	1.44	1.52
1	l0	116	GLY	CA-C	-7.24	1.44	1.52
1	3T	37	ILE	N-CA	-7.24	1.38	1.46
1	4o	97	ARG	CA-CB	7.24	1.65	1.53
1	4Y	161	PHE	N-CA	7.24	1.55	1.46
1	61	40	PHE	N-CA	-7.24	1.37	1.46
1	62	74	ASN	N-CA	-7.24	1.37	1.46
1	8x	36	VAL	C-N	7.24	1.41	1.33
1	98	100	ARG	CD-NE	7.24	1.56	1.46
1	9u	193	ASN	CA-CB	7.24	1.66	1.53
1	aY	149	SER	CA-C	7.24	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dv	86	VAL	CA-C	-7.24	1.44	1.52
1	4	79	GLU	N-CA	-7.24	1.37	1.46
1	1I	15	ILE	CA-CB	7.24	1.62	1.54
1	hB	64	ALA	CA-CB	7.24	1.64	1.53
1	hR	49	PRO	C-N	7.24	1.43	1.33
1	iB	120	HIS	CD2-NE2	7.24	1.45	1.37
1	jt	33	SER	CA-CB	7.24	1.64	1.54
1	l8	133	TRP	N-CA	-7.24	1.37	1.46
1	3w	81	ASP	C-N	7.24	1.43	1.33
1	3Y	208	ALA	CA-C	-7.24	1.44	1.53
1	48	35	GLU	CA-CB	7.24	1.65	1.53
1	5Z	18	ARG	NE-CZ	7.24	1.41	1.33
1	7R	121	ASN	CA-C	7.24	1.60	1.52
1	8y	133	TRP	N-CA	7.24	1.55	1.46
1	9L	93	PRO	N-CD	-7.24	1.37	1.47
1	au	135	ILE	CA-CB	7.24	1.63	1.54
1	dD	32	PHE	CA-C	7.24	1.62	1.52
1	eg	18	ARG	C-N	7.24	1.43	1.33
1	f6	133	TRP	NE1-CE2	-7.24	1.29	1.37
1	fM	98	GLU	CA-C	7.24	1.61	1.53
1	x	64	ALA	N-CA	7.24	1.55	1.46
1	jV	22	ALA	CA-C	7.24	1.62	1.52
1	2Z	91	ILE	CA-CB	-7.24	1.44	1.54
1	4c	177	ALA	CA-C	-7.24	1.44	1.52
1	6r	61	GLY	CA-C	-7.24	1.43	1.52
1	d3	125	PRO	CA-C	7.24	1.62	1.52
1	eF	87	HIS	ND1-CE1	7.24	1.39	1.32
1	fg	71	GLU	C-N	7.24	1.43	1.33
1	hc	190	LEU	CA-C	7.24	1.62	1.52
1	1L	54	THR	CA-C	7.24	1.62	1.52
1	jX	80	TRP	NE1-CE2	-7.24	1.29	1.37
1	kP	22	ALA	CA-C	7.24	1.62	1.52
1	2z	123	PRO	C-N	-7.24	1.27	1.33
1	34	125	PRO	CA-C	-7.24	1.46	1.53
1	4A	96	MET	CA-CB	7.24	1.64	1.53
1	61	46	GLY	CA-C	-7.24	1.41	1.51
1	8G	87	HIS	ND1-CE1	7.24	1.39	1.32
1	8Y	117	TRP	CZ2-CH2	7.24	1.50	1.37
1	an	131	LYS	N-CA	7.24	1.55	1.46
1	aZ	116	GLY	C-N	7.24	1.43	1.33
1	bW	135	ILE	C-O	-7.24	1.16	1.24
1	dt	1	PRO	N-CD	7.24	1.57	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fm	226	HIS	N-CA	-7.24	1.37	1.46
1	fN	161	PHE	CA-C	7.24	1.62	1.52
1	K	132	ARG	CD-NE	7.24	1.56	1.46
1	jZ	45	GLU	C-N	7.23	1.43	1.33
1	7X	96	MET	CA-CB	7.23	1.65	1.53
1	aK	89	GLY	N-CA	7.23	1.54	1.44
1	fR	42	ALA	N-CA	-7.23	1.37	1.46
1	hw	89	GLY	N-CA	7.23	1.56	1.44
1	iu	37	ILE	CA-CB	-7.23	1.50	1.54
1	ja	132	ARG	NE-CZ	7.23	1.41	1.33
1	jq	84	HIS	ND1-CE1	7.23	1.39	1.32
1	jO	86	VAL	CA-CB	-7.23	1.46	1.54
1	kq	174	ALA	N-CA	-7.23	1.37	1.46
1	lv	168	PHE	CA-C	7.23	1.62	1.52
1	lF	82	ARG	CD-NE	7.23	1.56	1.46
1	lI	50	GLN	CA-C	7.23	1.62	1.52
1	2d	203	LYS	C-N	-7.23	1.24	1.34
1	3h	203	LYS	CA-CB	7.23	1.64	1.53
1	5G	9	GLN	CA-C	-7.23	1.44	1.53
1	5J	188	THR	CA-C	7.23	1.56	1.52
1	5R	116	GLY	CA-C	-7.23	1.43	1.51
1	6Q	177	ALA	C-N	7.23	1.43	1.33
1	8F	143	ARG	CA-CB	7.23	1.64	1.53
1	9s	2	ILE	CA-CB	7.23	1.62	1.54
1	9D	220	GLY	CA-C	-7.23	1.42	1.51
1	b2	185	MET	N-CA	-7.23	1.37	1.46
1	bu	185	MET	N-CA	7.23	1.55	1.46
1	cw	123	PRO	N-CA	7.23	1.53	1.46
1	dr	127	GLY	CA-C	-7.23	1.42	1.51
1	eO	24	VAL	CA-CB	7.23	1.64	1.54
1	hE	32	PHE	CA-CB	7.23	1.62	1.53
1	hG	100	ARG	NE-CZ	7.23	1.41	1.33
1	1S	2	ILE	CA-CB	-7.23	1.45	1.54
1	kA	205	LEU	CA-CB	7.23	1.65	1.53
1	2s	176	GLN	C-N	7.23	1.43	1.33
1	2D	145	TYR	CA-C	-7.23	1.43	1.52
1	3C	23	TRP	C-N	7.23	1.43	1.33
1	48	50	GLN	CA-CB	7.23	1.64	1.53
1	4d	33	SER	C-N	-7.23	1.26	1.34
1	5q	176	GLN	N-CA	7.23	1.54	1.46
1	77	130	TYR	CA-C	7.23	1.62	1.52
1	7b	229	ARG	CZ-NH2	-7.23	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8X	16	SER	CA-C	7.23	1.60	1.52
1	9t	195	ASN	CA-CB	7.23	1.64	1.53
1	9U	74	ASN	CA-C	7.23	1.62	1.52
1	bM	36	VAL	C-N	7.23	1.44	1.33
1	fP	166	ASP	CA-C	7.23	1.61	1.52
1	g7	128	GLU	CA-C	7.23	1.62	1.52
1	g	53	ASN	N-CA	-7.23	1.37	1.46
1	F	73	ILE	C-N	7.23	1.43	1.33
1	kH	23	TRP	CA-CB	7.23	1.65	1.53
1	fc	164	TYR	CA-CB	7.23	1.64	1.53
1	fg	189	LEU	N-CA	7.23	1.55	1.46
1	fj	172	LEU	C-N	7.23	1.43	1.33
1	8	166	ASP	CA-CB	7.23	1.64	1.53
1	g8	114	GLN	C-N	7.23	1.43	1.33
1	hE	62	HIS	CE1-NE2	7.23	1.39	1.32
1	jt	8	GLY	C-N	7.23	1.43	1.33
1	jS	83	LEU	N-CA	-7.23	1.37	1.46
1	kY	144	MET	N-CA	7.23	1.55	1.46
1	lv	77	ALA	N-CA	-7.23	1.37	1.46
1	2u	175	GLU	N-CA	7.23	1.55	1.45
1	50	190	LEU	C-N	7.23	1.43	1.33
1	55	104	ILE	N-CA	7.23	1.55	1.46
1	6A	63	GLN	CA-CB	7.23	1.64	1.54
1	6D	161	PHE	C-N	7.23	1.43	1.33
1	7V	37	ILE	CA-CB	-7.23	1.50	1.54
1	7Y	69	LEU	C-N	7.23	1.43	1.33
1	8d	18	ARG	N-CA	7.23	1.55	1.46
1	8p	113	GLU	CA-CB	7.23	1.64	1.53
1	aa	153	ILE	CA-CB	-7.23	1.45	1.53
1	at	154	ARG	CA-C	-7.23	1.43	1.52
1	bt	90	PRO	CA-CB	7.23	1.63	1.53
1	bE	148	THR	CA-C	-7.23	1.43	1.52
1	dr	174	ALA	CA-C	7.23	1.61	1.52
1	e8	84	HIS	CA-C	7.23	1.60	1.52
1	f7	187	GLU	C-N	7.23	1.42	1.33
1	S	1	PRO	C-N	7.23	1.40	1.33
1	1Q	218	CYS	CA-C	-7.23	1.44	1.52
1	kb	194	ALA	N-CA	-7.23	1.36	1.46
1	kq	7	GLN	C-N	7.23	1.43	1.33
1	5t	213	GLU	C-N	7.23	1.43	1.33
1	6M	131	LYS	CA-CB	7.23	1.64	1.53
1	7f	2	ILE	CA-CB	7.23	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ai	136	LEU	CA-C	7.23	1.62	1.52
1	1j	45	GLU	C-N	7.23	1.41	1.33
1	dt	170	LYS	CA-CB	7.23	1.64	1.53
1	ea	58	THR	CA-C	-7.23	1.43	1.52
1	6	87	HIS	CG-CD2	7.23	1.43	1.35
1	gF	120	HIS	ND1-CE1	7.22	1.39	1.32
1	iu	127	GLY	CA-C	-7.22	1.42	1.51
1	iB	199	LYS	N-CA	-7.22	1.37	1.46
1	iQ	84	HIS	CB-CG	7.22	1.60	1.50
1	ku	56	LEU	CA-C	-7.22	1.43	1.52
1	lf	167	ARG	CD-NE	7.22	1.56	1.46
1	lw	140	LYS	CA-CB	7.22	1.64	1.53
1	lN	151	LEU	CA-CB	7.22	1.65	1.53
1	30	159	GLU	CA-C	-7.22	1.44	1.52
1	3m	156	GLY	C-N	-7.22	1.25	1.33
1	3L	170	LYS	CA-CB	7.22	1.65	1.53
1	4q	57	ASN	CA-CB	7.22	1.65	1.53
1	58	196	PRO	C-N	7.22	1.43	1.33
1	5M	12	HIS	ND1-CE1	7.22	1.39	1.32
1	68	39	MET	CA-CB	7.22	1.64	1.53
1	ak	201	ILE	CA-C	7.22	1.61	1.52
1	aM	168	PHE	CA-CB	7.22	1.64	1.53
1	1h	62	HIS	ND1-CE1	7.22	1.39	1.32
1	eN	84	HIS	CG-CD2	7.22	1.43	1.35
1	eY	221	VAL	CA-C	-7.22	1.44	1.52
1	eZ	62	HIS	CE1-NE2	7.22	1.39	1.32
1	l	213	GLU	CA-C	-7.22	1.43	1.52
1	gg	107	THR	CA-C	-7.22	1.42	1.52
1	iM	229	ARG	CA-C	7.22	1.62	1.52
1	j5	59	VAL	CA-CB	-7.22	1.45	1.54
1	jj	96	MET	CA-CB	7.22	1.66	1.53
1	k8	91	ILE	CA-CB	7.22	1.63	1.54
1	kh	7	GLN	N-CA	-7.22	1.37	1.46
1	kn	84	HIS	ND1-CE1	7.22	1.39	1.32
1	kW	45	GLU	CA-C	7.22	1.62	1.52
1	31	86	VAL	N-CA	7.22	1.54	1.46
1	3P	62	HIS	CE1-NE2	7.22	1.39	1.32
1	7L	118	MET	C-N	-7.22	1.24	1.33
1	8e	101	GLY	CA-C	-7.22	1.44	1.52
1	9V	84	HIS	ND1-CE1	7.22	1.39	1.32
1	ad	120	HIS	ND1-CE1	7.22	1.39	1.32
1	aP	195	ASN	CA-C	7.22	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bi	123	PRO	CA-C	-7.22	1.43	1.52
1	cH	18	ARG	CA-CB	7.22	1.64	1.53
1	ep	208	ALA	CA-C	-7.22	1.44	1.53
1	fo	40	PHE	CA-CB	7.22	1.64	1.53
1	c	158	LYS	CA-C	-7.22	1.43	1.52
1	K	38	PRO	CA-C	7.22	1.62	1.52
1	lC	126	VAL	CA-CB	7.22	1.63	1.54
1	40	138	LEU	N-CA	7.22	1.55	1.46
1	5y	197	ASP	N-CA	-7.22	1.37	1.46
1	5L	159	GLU	CA-CB	7.22	1.67	1.53
1	6J	125	PRO	CA-CB	7.22	1.60	1.53
1	7t	47	ALA	N-CA	-7.22	1.37	1.46
1	8e	53	ASN	CA-C	-7.22	1.43	1.52
1	8U	100	ARG	C-N	7.22	1.43	1.33
1	bh	96	MET	C-N	7.22	1.43	1.33
1	cC	98	GLU	C-N	7.22	1.42	1.33
1	cN	87	HIS	ND1-CE1	7.22	1.39	1.32
1	fJ	87	HIS	CG-CD2	7.22	1.43	1.35
1	1G	204	ALA	CA-C	7.22	1.62	1.52
1	hb	18	ARG	CA-CB	7.22	1.64	1.53
1	iq	108	THR	N-CA	-7.22	1.38	1.46
1	iR	54	THR	C-N	7.22	1.43	1.33
1	1V	43	LEU	CA-CB	7.22	1.66	1.53
1	kh	158	LYS	CA-CB	7.22	1.64	1.53
1	kG	184	TRP	C-O	-7.22	1.15	1.24
1	kT	149	SER	CA-CB	7.22	1.62	1.53
1	l3	149	SER	CA-C	7.22	1.62	1.52
1	lk	168	PHE	C-N	7.22	1.43	1.33
1	2g	37	ILE	CA-CB	-7.22	1.50	1.54
1	2x	74	ASN	C-N	7.22	1.43	1.33
1	3Y	35	GLU	C-N	7.22	1.43	1.33
1	4c	46	GLY	CA-C	-7.22	1.41	1.51
1	5H	124	ILE	N-CA	7.22	1.51	1.46
1	8h	100	ARG	N-CA	-7.22	1.36	1.45
1	92	37	ILE	CA-CB	7.22	1.58	1.54
1	9b	99	PRO	CA-CB	7.22	1.63	1.53
1	a0	67	GLN	N-CA	7.22	1.55	1.46
1	a8	120	HIS	ND1-CE1	7.22	1.39	1.32
1	10	56	LEU	CA-C	7.22	1.62	1.52
1	ax	9	GLN	CA-C	-7.22	1.43	1.52
1	aY	188	THR	N-CA	7.22	1.55	1.46
1	b5	12	HIS	ND1-CE1	7.22	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bv	150	ILE	CA-C	7.22	1.61	1.52
1	fD	62	HIS	CD2-NE2	7.22	1.45	1.37
1	gn	90	PRO	N-CA	7.22	1.55	1.47
1	j2	62	HIS	CE1-NE2	7.22	1.39	1.32
1	kx	217	ALA	CA-C	7.22	1.62	1.52
1	kZ	94	GLY	N-CA	7.22	1.54	1.45
1	lb	120	HIS	N-CA	7.22	1.55	1.45
1	lk	124	ILE	N-CA	-7.22	1.37	1.46
1	3L	138	LEU	CA-CB	7.22	1.64	1.53
1	48	146	SER	C-N	7.22	1.43	1.33
1	bP	52	LEU	CA-C	-7.22	1.43	1.52
1	dE	3	VAL	CA-C	-7.22	1.43	1.52
1	h9	99	PRO	N-CA	-7.22	1.38	1.47
1	ih	140	LYS	C-N	7.22	1.43	1.33
1	jg	209	ALA	CA-C	7.22	1.62	1.52
1	kz	179	GLN	C-N	7.22	1.43	1.33
1	24	83	LEU	CA-C	7.22	1.61	1.52
1	5r	84	HIS	ND1-CE1	7.22	1.39	1.32
1	7n	32	PHE	CA-CB	7.22	1.63	1.52
1	7v	48	THR	CA-CB	-7.22	1.42	1.53
1	97	26	VAL	CA-CB	7.22	1.63	1.54
1	9i	12	HIS	ND1-CE1	7.22	1.39	1.32
1	9I	91	ILE	CA-CB	-7.22	1.45	1.54
1	ai	197	ASP	CA-C	7.22	1.61	1.52
1	an	29	GLU	CA-CB	7.22	1.64	1.53
1	aJ	117	TRP	CA-C	-7.22	1.43	1.52
1	bk	126	VAL	C-N	7.22	1.42	1.34
1	bv	149	SER	N-CA	7.22	1.55	1.46
1	cF	142	VAL	CA-C	-7.22	1.44	1.52
1	cQ	154	ARG	CA-C	-7.22	1.43	1.52
1	ej	145	TYR	C-N	7.22	1.44	1.33
1	f3	18	ARG	CA-C	-7.22	1.43	1.52
1	fy	164	TYR	C-O	-7.22	1.15	1.24
1	F	213	GLU	CA-C	7.22	1.62	1.52
1	gd	195	ASN	CA-C	7.21	1.60	1.53
1	i4	83	LEU	CA-C	-7.21	1.43	1.52
1	ii	76	GLU	C-N	7.21	1.43	1.33
1	iG	84	HIS	CA-CB	7.21	1.63	1.53
1	iJ	7	GLN	CA-CB	7.21	1.63	1.53
1	2k	97	ARG	CD-NE	7.21	1.56	1.46
1	2B	62	HIS	CE1-NE2	7.21	1.39	1.32
1	4Q	35	GLU	CA-CB	7.21	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	61	63	GLN	CA-C	-7.21	1.43	1.52
1	6c	62	HIS	CE1-NE2	7.21	1.39	1.32
1	9O	169	TYR	CA-C	-7.21	1.43	1.52
1	au	184	TRP	CA-C	7.21	1.61	1.52
1	aE	133	TRP	C-N	7.21	1.43	1.33
1	aK	44	SER	N-CA	-7.21	1.36	1.46
1	aO	182	LYS	C-N	7.21	1.44	1.33
1	1c	18	ARG	CD-NE	7.21	1.56	1.46
1	d1	212	GLU	CA-C	7.21	1.62	1.52
1	es	56	LEU	CA-C	7.21	1.62	1.52
1	f6	134	ILE	CA-CB	-7.21	1.46	1.54
1	fk	50	GLN	CA-C	-7.21	1.43	1.52
1	fk	224	PRO	C-N	7.21	1.42	1.33
1	g0	175	GLU	CA-C	7.21	1.61	1.52
1	gT	173	ARG	CA-CB	7.21	1.64	1.53
1	i0	163	ASP	CA-C	7.21	1.62	1.52
1	kr	120	HIS	ND1-CE1	7.21	1.39	1.32
1	li	40	PHE	CA-C	7.21	1.62	1.52
1	67	192	GLN	CA-C	-7.21	1.43	1.52
1	6j	81	ASP	CA-CB	7.21	1.64	1.53
1	aj	23	TRP	C-N	7.21	1.43	1.34
1	dy	146	SER	CA-C	-7.21	1.44	1.52
1	fh	168	PHE	CA-CB	7.21	1.64	1.53
1	hC	188	THR	N-CA	7.21	1.55	1.46
1	ic	221	VAL	CA-CB	-7.21	1.45	1.54
1	iE	226	HIS	ND1-CE1	7.21	1.39	1.32
1	iN	171	THR	CA-C	-7.21	1.43	1.52
1	j5	40	PHE	CA-CB	7.21	1.64	1.53
1	j6	200	THR	C-O	-7.21	1.15	1.24
1	1Z	219	GLN	N-CA	-7.21	1.37	1.46
1	kL	174	ALA	N-CA	7.21	1.54	1.46
1	2G	82	ARG	CZ-NH2	-7.21	1.24	1.33
1	3f	143	ARG	CA-C	7.21	1.62	1.52
1	4H	13	GLN	CA-C	-7.21	1.43	1.52
1	67	115	ILE	CA-CB	-7.21	1.45	1.54
1	7Y	66	MET	N-CA	-7.21	1.37	1.46
1	8q	6	LEU	CA-C	7.21	1.62	1.52
1	8O	228	ALA	N-CA	-7.21	1.36	1.46
1	8X	61	GLY	CA-C	-7.21	1.43	1.52
1	18	227	LYS	CA-C	7.21	1.61	1.53
1	bD	181	VAL	CA-CB	-7.21	1.45	1.54
1	bE	158	LYS	N-CA	-7.21	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cb	59	VAL	N-CA	-7.21	1.37	1.46
1	cR	156	GLY	C-N	-7.21	1.26	1.34
1	fL	160	PRO	CA-C	7.21	1.62	1.52
1	d	92	GLU	CA-CB	7.21	1.63	1.53
1	L	148	THR	N-CA	-7.21	1.37	1.46
1	2q	92	GLU	CA-C	7.21	1.60	1.53
1	4i	82	ARG	CA-CB	7.21	1.64	1.53
1	5c	91	ILE	N-CA	7.21	1.54	1.46
1	7c	120	HIS	CB-CG	7.21	1.60	1.50
1	8D	92	GLU	CA-C	7.21	1.61	1.52
1	8K	112	GLN	C-N	7.21	1.43	1.33
1	a8	11	VAL	C-N	7.21	1.43	1.33
1	aj	178	SER	CA-CB	7.21	1.65	1.53
1	b9	139	ASN	CA-CB	7.21	1.65	1.53
1	dc	221	VAL	C-N	7.21	1.43	1.33
1	eM	215	MET	CA-C	-7.21	1.43	1.52
1	eY	10	MET	CA-CB	7.21	1.66	1.53
1	fy	188	THR	N-CA	7.21	1.55	1.46
1	v	21	ASN	CA-C	7.21	1.62	1.52
1	hk	136	LEU	CA-C	7.21	1.62	1.52
1	iP	79	GLU	N-CA	7.21	1.54	1.46
1	k5	20	LEU	CA-CB	7.21	1.64	1.53
1	3b	62	HIS	CE1-NE2	7.21	1.39	1.32
1	4j	79	GLU	CA-CB	7.21	1.65	1.53
1	5g	50	GLN	CA-CB	7.21	1.64	1.53
1	6l	164	TYR	C-N	7.21	1.42	1.33
1	8p	169	TYR	CA-CB	7.21	1.64	1.53
1	9M	203	LYS	C-N	7.21	1.43	1.33
1	9R	177	ALA	CA-C	-7.21	1.43	1.52
1	ap	30	LYS	CA-CB	7.21	1.65	1.53
1	aX	133	TRP	CA-CB	7.21	1.64	1.53
1	b6	146	SER	CA-C	7.21	1.60	1.52
1	bQ	105	ALA	CA-CB	7.21	1.65	1.53
1	cm	73	ILE	C-N	7.21	1.43	1.33
1	d9	61	GLY	CA-C	-7.21	1.45	1.52
1	1p	7	GLN	CA-C	7.21	1.64	1.52
1	ei	62	HIS	CD2-NE2	7.21	1.45	1.37
1	gH	187	GLU	CA-CB	7.21	1.64	1.53
1	hg	92	GLU	CA-C	7.21	1.60	1.52
1	i7	221	VAL	CA-CB	7.21	1.62	1.54
1	1R	206	GLY	C-N	7.21	1.43	1.34
1	j8	80	TRP	N-CA	-7.21	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2d	153	ILE	CA-C	-7.21	1.44	1.52
1	2C	60	GLY	C-N	7.21	1.42	1.33
1	2X	226	HIS	ND1-CE1	7.21	1.39	1.32
1	3n	92	GLU	CA-C	7.21	1.60	1.53
1	44	181	VAL	CA-CB	7.21	1.63	1.54
1	4e	174	ALA	C-N	7.21	1.43	1.33
1	72	83	LEU	N-CA	-7.21	1.37	1.46
1	7n	132	ARG	CD-NE	7.21	1.56	1.46
1	8d	88	ALA	CA-C	7.21	1.62	1.52
1	8M	111	LEU	CA-CB	7.21	1.64	1.53
1	8Q	40	PHE	C-N	7.21	1.43	1.33
1	aa	173	ARG	CD-NE	7.21	1.56	1.46
1	ab	123	PRO	CA-C	7.21	1.62	1.52
1	ah	84	HIS	CA-CB	7.21	1.60	1.53
1	cf	130	TYR	CA-CB	7.21	1.64	1.53
1	cH	67	GLN	C-N	7.21	1.43	1.34
1	eC	115	ILE	C-N	7.21	1.43	1.33
1	id	174	ALA	CA-C	-7.21	1.45	1.52
1	5J	37	ILE	CA-C	7.21	1.58	1.52
1	8h	120	HIS	CE1-NE2	7.21	1.39	1.32
1	8x	125	PRO	CA-CB	7.21	1.58	1.53
1	Y	185	MET	C-N	7.21	1.43	1.33
1	bc	101	GLY	CA-C	-7.21	1.43	1.52
1	dH	184	TRP	C-O	-7.21	1.15	1.24
1	hw	117	TRP	CA-CB	7.20	1.65	1.53
1	kr	37	ILE	CA-C	7.20	1.59	1.52
1	lJ	170	LYS	CA-C	7.20	1.62	1.52
1	2K	230	VAL	CA-C	7.20	1.60	1.52
1	4E	119	THR	CA-C	-7.20	1.43	1.52
1	4Q	86	VAL	CA-C	-7.20	1.42	1.53
1	5F	48	THR	CA-C	7.20	1.62	1.53
1	6q	37	ILE	CA-CB	7.20	1.57	1.54
1	7f	132	ARG	CA-CB	7.20	1.65	1.53
1	8a	128	GLU	C-N	7.20	1.42	1.33
1	8u	156	GLY	N-CA	7.20	1.54	1.44
1	b7	146	SER	CA-C	7.20	1.61	1.52
1	16	125	PRO	N-CA	-7.20	1.41	1.47
1	be	12	HIS	ND1-CE1	7.20	1.39	1.32
1	1k	166	ASP	CA-C	7.20	1.62	1.52
1	ej	167	ARG	C-N	7.20	1.43	1.33
1	ew	167	ARG	CD-NE	7.20	1.56	1.46
1	eN	133	TRP	CA-C	7.20	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jW	101	GLY	CA-C	-7.20	1.43	1.52
1	kR	28	GLU	CA-CB	7.20	1.64	1.53
1	4Z	102	SER	CA-C	7.20	1.62	1.52
1	7t	85	PRO	N-CA	-7.20	1.38	1.47
1	7Q	168	PHE	CA-CB	7.20	1.64	1.53
1	90	135	ILE	CA-C	-7.20	1.43	1.52
1	97	138	LEU	CA-CB	7.20	1.64	1.53
1	9E	167	ARG	CD-NE	7.20	1.56	1.46
1	ai	37	ILE	C-N	7.20	1.42	1.34
1	e0	2	ILE	CA-CB	7.20	1.62	1.54
1	go	7	GLN	CA-CB	7.20	1.64	1.53
1	gt	23	TRP	CA-C	-7.20	1.43	1.52
1	gN	222	GLY	N-CA	7.20	1.52	1.45
1	h4	72	THR	CA-C	7.20	1.62	1.52
1	ho	145	TYR	CA-CB	7.20	1.62	1.53
1	j3	182	LYS	N-CA	7.20	1.54	1.46
1	j4	18	ARG	CA-C	7.20	1.62	1.52
1	jC	72	THR	N-CA	-7.20	1.37	1.46
1	kd	113	GLU	CA-C	7.20	1.62	1.52
1	lF	34	PRO	N-CD	-7.20	1.37	1.47
1	3m	143	ARG	CA-C	7.20	1.61	1.52
1	44	60	GLY	C-N	7.20	1.42	1.33
1	7m	140	LYS	N-CA	7.20	1.55	1.46
1	Y	38	PRO	C-N	7.20	1.43	1.33
1	b3	62	HIS	CG-CD2	7.20	1.43	1.35
1	dU	172	LEU	N-CA	-7.20	1.37	1.46
1	gj	115	ILE	C-O	-7.20	1.16	1.24
1	iI	12	HIS	ND1-CE1	7.20	1.39	1.32
1	jg	132	ARG	N-CA	-7.20	1.37	1.46
1	kE	95	GLN	CA-C	7.20	1.62	1.52
1	lm	183	ASN	C-N	7.20	1.43	1.33
1	lC	154	ARG	CD-NE	7.20	1.56	1.46
1	2o	25	LYS	CA-C	-7.20	1.43	1.52
1	39	201	ILE	C-N	7.20	1.43	1.33
1	4i	162	ARG	C-N	-7.20	1.24	1.33
1	4J	132	ARG	CD-NE	7.20	1.56	1.46
1	6z	62	HIS	CE1-NE2	7.20	1.39	1.32
1	6G	37	ILE	CA-C	7.20	1.60	1.52
1	7t	43	LEU	C-N	7.20	1.43	1.33
1	8k	45	GLU	CA-CB	7.20	1.61	1.52
1	9F	168	PHE	N-CA	7.20	1.54	1.46
1	9V	140	LYS	CA-C	7.20	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a4	132	ARG	C-N	7.20	1.43	1.33
1	ab	58	THR	CA-C	-7.20	1.43	1.52
1	au	87	HIS	CB-CG	7.20	1.60	1.50
1	bg	25	LYS	CA-C	7.20	1.62	1.52
1	cd	85	PRO	CA-CB	-7.20	1.49	1.53
1	eq	205	LEU	CA-C	7.20	1.62	1.52
1	eA	55	MET	CA-C	-7.20	1.43	1.52
1	iP	184	TRP	NE1-CE2	-7.20	1.29	1.37
1	ki	76	GLU	CA-C	-7.20	1.43	1.52
1	2Y	166	ASP	CA-CB	7.20	1.64	1.53
1	3z	84	HIS	ND1-CE1	7.20	1.39	1.32
1	6I	20	LEU	CA-CB	7.20	1.64	1.53
1	9e	108	THR	N-CA	7.20	1.54	1.46
1	9W	96	MET	CA-CB	7.20	1.65	1.53
1	a2	62	HIS	CG-ND1	7.20	1.46	1.38
1	aC	29	GLU	C-N	7.20	1.43	1.33
1	ec	120	HIS	ND1-CE1	7.20	1.39	1.32
1	f0	40	PHE	C-N	7.20	1.43	1.33
1	hX	106	GLY	CA-C	-7.20	1.41	1.51
1	jX	136	LEU	C-N	7.20	1.42	1.33
1	3j	140	LYS	CA-C	7.20	1.61	1.52
1	5K	144	MET	N-CA	-7.20	1.37	1.46
1	7m	155	GLN	C-N	7.20	1.44	1.33
1	82	56	LEU	CA-CB	7.20	1.65	1.53
1	86	134	ILE	C-N	7.20	1.42	1.33
1	9x	188	THR	CA-C	-7.20	1.45	1.53
1	9G	62	HIS	CG-CD2	-7.20	1.27	1.35
1	ak	92	GLU	CA-C	7.20	1.60	1.53
1	c6	142	VAL	CA-CB	7.20	1.62	1.54
1	cx	166	ASP	CA-C	7.20	1.61	1.52
1	d4	187	GLU	N-CA	-7.20	1.37	1.46
1	dl	183	ASN	N-CA	7.20	1.54	1.46
1	ed	207	PRO	CA-C	-7.20	1.44	1.52
1	fK	2	ILE	N-CA	-7.20	1.38	1.46
1	h5	79	GLU	N-CA	-7.19	1.37	1.46
1	hh	120	HIS	CB-CG	7.19	1.60	1.50
1	iW	178	SER	CA-C	7.19	1.62	1.52
1	ld	88	ALA	CA-C	7.19	1.63	1.53
1	6C	141	ILE	CA-CB	-7.19	1.45	1.54
1	7y	98	GLU	CA-CB	7.19	1.64	1.52
1	at	184	TRP	NE1-CE2	-7.19	1.29	1.37
1	cn	185	MET	CA-CB	7.19	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fS	148	THR	CA-C	-7.19	1.43	1.53
1	hg	123	PRO	CA-CB	7.19	1.63	1.53
1	2A	84	HIS	ND1-CE1	7.19	1.39	1.32
1	58	218	CYS	CA-CB	7.19	1.62	1.52
1	67	87	HIS	CD2-NE2	7.19	1.45	1.37
1	9j	106	GLY	CA-C	-7.19	1.42	1.51
1	aq	171	THR	N-CA	7.19	1.54	1.46
1	aC	14	ALA	CA-CB	7.19	1.65	1.53
1	aT	92	GLU	CA-CB	7.19	1.64	1.53
1	bn	229	ARG	CA-CB	7.19	1.62	1.52
1	bO	33	SER	N-CA	7.19	1.52	1.45
1	c2	171	THR	CA-CB	-7.19	1.42	1.53
1	cB	186	THR	CA-C	-7.19	1.43	1.52
1	1o	35	GLU	CA-C	-7.19	1.42	1.52
1	e3	138	LEU	C-N	7.19	1.43	1.33
1	eG	114	GLN	CA-CB	7.19	1.64	1.53
1	fJ	100	ARG	CD-NE	7.19	1.56	1.46
1	t	207	PRO	CA-C	7.19	1.59	1.52
1	jF	152	ASP	C-N	7.19	1.42	1.33
1	jZ	48	THR	N-CA	-7.19	1.37	1.46
1	kW	78	ALA	CA-C	7.19	1.62	1.52
1	2F	37	ILE	CA-C	7.19	1.59	1.52
1	71	33	SER	CA-C	7.19	1.61	1.53
1	a0	191	VAL	CA-CB	-7.19	1.45	1.54
1	b4	36	VAL	C-N	7.19	1.41	1.33
1	cR	89	GLY	N-CA	7.19	1.54	1.44
1	cS	121	ASN	CA-CB	7.19	1.64	1.53
1	g7	226	HIS	ND1-CE1	7.19	1.39	1.32
1	r	85	PRO	N-CD	-7.19	1.37	1.47
1	kw	91	ILE	CA-CB	7.19	1.61	1.53
1	2x	167	ARG	C-N	7.19	1.43	1.33
1	7S	143	ARG	N-CA	-7.19	1.37	1.46
1	8z	170	LYS	CA-C	-7.19	1.43	1.52
1	8J	143	ARG	CD-NE	7.19	1.56	1.46
1	aq	12	HIS	CE1-NE2	-7.19	1.25	1.32
1	br	76	GLU	C-N	7.19	1.43	1.33
1	18	226	HIS	ND1-CE1	7.19	1.39	1.32
1	ed	124	ILE	CA-C	-7.19	1.46	1.53
1	ef	141	ILE	N-CA	7.19	1.55	1.46
1	jl	105	ALA	C-N	7.19	1.40	1.33
1	jN	61	GLY	C-N	7.19	1.42	1.33
1	kF	59	VAL	CA-C	7.19	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lv	66	MET	CA-CB	7.19	1.64	1.53
1	2B	141	ILE	CA-CB	-7.19	1.45	1.54
1	2K	92	GLU	CA-C	-7.19	1.46	1.53
1	3R	73	ILE	CA-CB	-7.19	1.45	1.54
1	3W	198	CYS	C-N	7.19	1.43	1.33
1	40	189	LEU	C-N	7.19	1.43	1.33
1	4W	33	SER	CA-CB	7.19	1.63	1.54
1	6n	226	HIS	ND1-CE1	7.19	1.39	1.32
1	7A	227	LYS	CA-CB	7.19	1.64	1.53
1	8t	167	ARG	CD-NE	7.19	1.56	1.46
1	9l	12	HIS	ND1-CE1	7.19	1.39	1.32
1	12	119	THR	N-CA	7.19	1.55	1.46
1	bq	78	ALA	CA-C	-7.19	1.43	1.52
1	c2	115	ILE	N-CA	7.19	1.55	1.46
1	cB	91	ILE	CB-CG1	7.19	1.67	1.53
1	dz	189	LEU	N-CA	-7.19	1.37	1.46
1	e5	54	THR	CA-C	7.19	1.62	1.52
1	S	86	VAL	N-CA	-7.19	1.37	1.46
1	gE	12	HIS	ND1-CE1	7.19	1.39	1.32
1	il	40	PHE	CA-C	-7.19	1.43	1.52
1	iD	35	GLU	C-N	7.19	1.41	1.34
1	jt	74	ASN	C-N	7.19	1.43	1.33
1	24	224	PRO	C-N	7.19	1.44	1.33
1	7H	124	ILE	CA-C	7.19	1.58	1.53
1	96	103	ASP	CA-C	7.19	1.62	1.52
1	bI	219	GLN	N-CA	7.19	1.55	1.46
1	cu	206	GLY	C-N	7.19	1.39	1.33
1	e7	166	ASP	CA-C	7.19	1.62	1.52
1	fy	34	PRO	N-CA	-7.19	1.38	1.47
1	c	159	GLU	CA-C	7.19	1.60	1.53
1	X	132	ARG	CA-C	-7.19	1.43	1.52
1	gU	84	HIS	ND1-CE1	7.18	1.39	1.32
1	1G	79	GLU	C-N	7.18	1.43	1.33
1	it	226	HIS	C-N	7.18	1.42	1.33
1	lv	50	GLN	CA-CB	7.18	1.64	1.53
1	6u	135	ILE	CA-C	7.18	1.62	1.52
1	7v	18	ARG	C-N	7.18	1.43	1.33
1	8b	140	LYS	N-CA	7.18	1.55	1.46
1	8C	229	ARG	C-N	7.18	1.41	1.33
1	Z	206	GLY	N-CA	7.18	1.54	1.44
1	ae	161	PHE	CA-CB	7.18	1.64	1.53
1	19	97	ARG	C-N	7.18	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bO	124	ILE	N-CA	-7.18	1.41	1.46
1	dB	24	VAL	C-N	7.18	1.43	1.33
1	b	32	PHE	N-CA	7.18	1.55	1.46
1	1F	60	GLY	CA-C	7.18	1.62	1.51
1	hy	130	TYR	CA-C	-7.18	1.43	1.52
1	hy	154	ARG	CA-C	-7.18	1.43	1.52
1	im	115	ILE	CA-CB	7.18	1.63	1.54
1	in	227	LYS	CA-C	-7.18	1.44	1.52
1	j6	226	HIS	ND1-CE1	7.18	1.39	1.32
1	jI	213	GLU	CA-C	-7.18	1.43	1.52
1	23	227	LYS	C-N	7.18	1.43	1.33
1	2y	143	ARG	CD-NE	7.18	1.56	1.46
1	2J	211	LEU	CA-C	-7.18	1.43	1.52
1	6e	22	ALA	CA-C	7.18	1.62	1.52
1	6S	12	HIS	ND1-CE1	7.18	1.39	1.32
1	9Y	53	ASN	C-N	7.18	1.43	1.33
1	aY	217	ALA	CA-CB	7.18	1.65	1.53
1	dc	60	GLY	CA-C	-7.18	1.41	1.51
1	ef	229	ARG	C-N	7.18	1.41	1.33
1	eA	10	MET	CA-C	7.18	1.62	1.52
1	d	133	TRP	N-CA	7.18	1.54	1.46
1	ke	128	GLU	N-CA	7.18	1.55	1.46
1	kk	47	ALA	CA-CB	7.18	1.64	1.53
1	6q	121	ASN	CA-C	7.18	1.61	1.52
1	aN	101	GLY	CA-C	7.18	1.60	1.51
1	cC	197	ASP	C-N	7.18	1.43	1.33
1	e9	54	THR	CA-C	-7.18	1.43	1.52
1	e9	221	VAL	CA-C	7.18	1.60	1.52
1	f6	162	ARG	CD-NE	7.18	1.56	1.46
1	gj	55	MET	N-CA	7.18	1.54	1.46
1	iX	75	GLU	N-CA	-7.18	1.37	1.46
1	jY	20	LEU	CA-C	7.18	1.62	1.52
1	ka	181	VAL	CA-CB	7.18	1.64	1.54
1	29	20	LEU	CA-CB	7.18	1.64	1.53
1	29	167	ARG	CA-C	-7.18	1.43	1.52
1	lR	125	PRO	CA-CB	7.18	1.60	1.53
1	2X	162	ARG	CD-NE	7.18	1.56	1.46
1	38	91	ILE	CA-CB	7.18	1.62	1.54
1	3v	150	ILE	CA-CB	-7.18	1.44	1.54
1	3A	63	GLN	CA-C	-7.18	1.43	1.52
1	3I	206	GLY	CA-C	7.18	1.62	1.51
1	3O	96	MET	N-CA	7.18	1.55	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	57	143	ARG	CD-NE	7.18	1.56	1.46
1	bt	39	MET	CA-CB	7.18	1.65	1.53
1	bQ	159	GLU	CA-C	-7.18	1.44	1.53
1	cr	92	GLU	CA-C	7.18	1.60	1.53
1	di	26	VAL	N-CA	-7.18	1.38	1.46
1	dY	229	ARG	CA-C	7.18	1.61	1.52
1	e1	135	ILE	CA-C	-7.18	1.44	1.52
1	ei	32	PHE	CA-CB	7.18	1.63	1.52
1	eB	77	ALA	C-N	7.18	1.43	1.33
1	fD	123	PRO	CA-CB	7.18	1.63	1.53
1	fK	84	HIS	CA-C	-7.18	1.46	1.52
1	gD	26	VAL	CA-C	7.18	1.62	1.52
1	gE	137	GLY	C-N	7.18	1.43	1.33
1	jo	199	LYS	N-CA	7.18	1.55	1.46
1	kD	129	ILE	CA-C	7.18	1.61	1.52
1	kO	72	THR	CA-C	-7.18	1.43	1.52
1	2d	21	ASN	CA-C	-7.18	1.43	1.52
1	5u	67	GLN	N-CA	7.18	1.55	1.46
1	bh	217	ALA	C-N	7.18	1.43	1.33
1	gN	176	GLN	CA-CB	7.18	1.62	1.53
1	hu	59	VAL	CA-CB	-7.18	1.45	1.54
1	hI	103	ASP	CA-C	7.18	1.62	1.52
1	is	99	PRO	C-O	-7.18	1.16	1.23
1	iB	173	ARG	CD-NE	7.18	1.56	1.46
1	j3	140	LYS	CA-CB	7.18	1.64	1.53
1	5a	228	ALA	C-N	-7.18	1.24	1.33
1	6d	167	ARG	CA-CB	7.18	1.64	1.53
1	7b	205	LEU	CA-CB	7.18	1.65	1.53
1	7F	124	ILE	N-CA	-7.18	1.41	1.46
1	8w	8	GLY	CA-C	7.18	1.61	1.52
1	8P	226	HIS	C-N	7.18	1.44	1.33
1	8Y	37	ILE	CA-CB	7.18	1.58	1.54
1	a3	97	ARG	CD-NE	7.18	1.56	1.46
1	ar	102	SER	CA-C	7.18	1.62	1.52
1	b4	196	PRO	C-N	7.18	1.43	1.33
1	bN	212	GLU	CA-C	7.18	1.62	1.52
1	dv	46	GLY	CA-C	7.18	1.60	1.51
1	g	82	ARG	NE-CZ	-7.18	1.25	1.33
1	g8	55	MET	C-N	7.17	1.43	1.33
1	iO	196	PRO	CA-C	-7.17	1.42	1.52
1	k8	3	VAL	N-CA	-7.17	1.37	1.46
1	kh	195	ASN	C-N	7.17	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4o	129	ILE	CA-CB	-7.17	1.46	1.54
1	4U	226	HIS	CA-C	-7.17	1.46	1.53
1	54	143	ARG	CD-NE	7.17	1.56	1.46
1	5F	179	GLN	N-CA	7.17	1.55	1.46
1	7X	98	GLU	CA-C	7.17	1.61	1.52
1	9p	185	MET	CA-CB	7.17	1.65	1.53
1	ae	204	ALA	CA-C	7.17	1.62	1.52
1	aP	191	VAL	CA-CB	-7.17	1.45	1.54
1	cE	123	PRO	C-N	7.17	1.39	1.33
1	cM	192	GLN	CA-CB	7.17	1.64	1.53
1	dF	93	PRO	CA-CB	7.17	1.64	1.53
1	i	72	THR	C-N	7.17	1.43	1.33
1	gG	18	ARG	CA-C	-7.17	1.43	1.52
1	hv	7	GLN	CA-C	7.17	1.61	1.52
1	km	36	VAL	N-CA	-7.17	1.38	1.46
1	5n	195	ASN	CA-C	7.17	1.61	1.53
1	6F	103	ASP	CA-C	7.17	1.62	1.52
1	13	199	LYS	N-CA	7.17	1.55	1.46
1	bA	166	ASP	C-N	7.17	1.43	1.33
1	cS	100	ARG	CD-NE	7.17	1.56	1.46
1	u	152	ASP	CA-C	7.17	1.62	1.52
1	ga	98	GLU	CA-C	7.17	1.61	1.53
1	hX	133	TRP	CZ2-CH2	7.17	1.50	1.37
1	jm	166	ASP	CA-C	7.17	1.61	1.52
1	l0	148	THR	N-CA	7.17	1.54	1.46
1	2a	195	ASN	CA-CB	7.17	1.64	1.53
1	2n	198	CYS	C-N	7.17	1.43	1.33
1	4M	226	HIS	ND1-CE1	7.17	1.39	1.32
1	7W	124	ILE	CA-C	-7.17	1.47	1.53
1	bV	149	SER	CA-C	7.17	1.62	1.52
1	ci	128	GLU	N-CA	7.17	1.55	1.46
1	dw	72	THR	N-CA	7.17	1.54	1.46
1	o	124	ILE	CA-C	7.17	1.58	1.53
1	J	128	GLU	CA-C	7.17	1.62	1.52
1	1O	71	GLU	CA-CB	7.17	1.64	1.53
1	kH	184	TRP	C-N	7.17	1.43	1.33
1	2l	3	VAL	N-CA	7.17	1.55	1.46
1	2L	117	TRP	CA-C	7.17	1.62	1.52
1	5o	187	GLU	C-N	7.17	1.43	1.33
1	5t	197	ASP	CA-C	7.17	1.61	1.52
1	68	211	LEU	C-N	7.17	1.42	1.33
1	7f	124	ILE	N-CA	-7.17	1.41	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9l	82	ARG	C-N	7.17	1.43	1.33
1	co	165	VAL	C-N	7.17	1.43	1.33
1	dX	120	HIS	ND1-CE1	7.17	1.39	1.32
1	eE	223	GLY	N-CA	7.17	1.54	1.44
1	g0	175	GLU	N-CA	-7.17	1.36	1.46
1	gq	24	VAL	CA-C	7.17	1.61	1.52
1	hh	141	ILE	CA-C	7.17	1.61	1.52
1	jk	78	ALA	C-O	7.17	1.32	1.24
1	jS	72	THR	N-CA	7.17	1.55	1.46
1	3S	23	TRP	CA-C	7.17	1.61	1.52
1	3V	2	ILE	CA-CB	7.17	1.61	1.53
1	5c	154	ARG	N-CA	7.17	1.55	1.45
1	6f	62	HIS	CE1-NE2	7.17	1.39	1.32
1	6P	136	LEU	CB-CG	7.17	1.67	1.53
1	8u	140	LYS	C-N	7.17	1.43	1.33
1	9t	198	CYS	CA-CB	7.17	1.64	1.53
1	9B	144	MET	N-CA	7.17	1.55	1.46
1	aS	147	PRO	N-CA	-7.17	1.38	1.47
1	br	84	HIS	ND1-CE1	7.17	1.39	1.32
1	1a	82	ARG	CA-C	7.17	1.62	1.52
1	c2	121	ASN	N-CA	7.17	1.55	1.46
1	cs	47	ALA	CA-C	7.17	1.62	1.52
1	1f	192	GLN	N-CA	7.17	1.54	1.46
1	cD	97	ARG	C-O	-7.17	1.15	1.23
1	K	62	HIS	ND1-CE1	7.17	1.39	1.32
1	gm	195	ASN	CA-CB	7.17	1.64	1.53
1	go	162	ARG	CA-CB	7.17	1.64	1.53
1	kK	83	LEU	CA-C	-7.17	1.43	1.52
1	lJ	62	HIS	CE1-NE2	7.17	1.39	1.32
1	3a	191	VAL	CA-CB	-7.17	1.45	1.54
1	3D	10	MET	N-CA	-7.17	1.36	1.46
1	5Z	227	LYS	C-N	7.17	1.43	1.33
1	6S	37	ILE	CA-C	7.17	1.58	1.52
1	6W	113	GLU	C-N	7.17	1.42	1.33
1	a4	173	ARG	CA-CB	7.17	1.64	1.53
1	dP	120	HIS	CE1-NE2	7.17	1.39	1.32
1	eF	104	ILE	CA-C	-7.17	1.43	1.52
1	hM	44	SER	CA-CB	7.17	1.63	1.53
1	kJ	84	HIS	CA-C	7.17	1.60	1.52
1	3K	115	ILE	CA-C	7.17	1.62	1.52
1	46	152	ASP	CA-C	7.17	1.62	1.52
1	47	120	HIS	CA-C	7.17	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	56	97	ARG	CD-NE	7.17	1.56	1.46
1	63	149	SER	CA-C	7.17	1.61	1.52
1	7l	162	ARG	CD-NE	7.17	1.56	1.46
1	9K	23	TRP	NE1-CE2	-7.17	1.29	1.37
1	ay	4	GLN	N-CA	-7.17	1.37	1.46
1	dr	92	GLU	CA-CB	7.17	1.63	1.53
1	1x	115	ILE	CA-CB	-7.17	1.45	1.54
1	g1	87	HIS	CA-C	7.17	1.62	1.52
1	hG	142	VAL	CA-C	7.16	1.61	1.52
1	jd	48	THR	N-CA	7.16	1.54	1.45
1	jf	81	ASP	CA-C	7.16	1.62	1.52
1	jg	189	LEU	CA-CB	7.16	1.65	1.53
1	jl	11	VAL	CA-C	7.16	1.61	1.52
1	kC	12	HIS	ND1-CE1	7.16	1.39	1.32
1	kF	84	HIS	ND1-CE1	7.16	1.39	1.32
1	kY	162	ARG	CA-CB	7.16	1.64	1.53
1	kZ	164	TYR	CA-CB	7.16	1.64	1.53
1	2g	153	ILE	CA-C	7.16	1.61	1.52
1	4H	22	ALA	C-N	7.16	1.43	1.33
1	4X	54	THR	CA-CB	-7.16	1.42	1.53
1	69	228	ALA	C-N	7.16	1.42	1.33
1	6J	13	GLN	N-CA	-7.16	1.36	1.45
1	73	200	THR	CA-C	-7.16	1.43	1.52
1	85	146	SER	CA-CB	7.16	1.65	1.53
1	8N	73	ILE	CA-CB	-7.16	1.45	1.54
1	8R	230	VAL	C-N	7.16	1.43	1.33
1	9g	4	GLN	CA-C	7.16	1.62	1.52
1	ba	193	ASN	CA-C	7.16	1.62	1.52
1	bf	154	ARG	CD-NE	7.16	1.56	1.46
1	f0	229	ARG	CA-C	7.16	1.62	1.52
1	fw	150	ILE	CA-CB	-7.16	1.45	1.54
1	fV	107	THR	CA-C	-7.16	1.43	1.52
1	M	116	GLY	CA-C	7.16	1.60	1.51
1	hb	188	THR	CA-C	7.16	1.62	1.52
1	jI	228	ALA	CA-C	-7.16	1.44	1.52
1	7s	79	GLU	N-CA	7.16	1.55	1.46
1	as	75	GLU	CA-CB	7.16	1.64	1.53
1	dH	120	HIS	ND1-CE1	7.16	1.39	1.32
1	fg	10	MET	CA-CB	7.16	1.65	1.53
1	1G	73	ILE	C-N	7.16	1.43	1.33
1	it	18	ARG	CD-NE	7.16	1.56	1.46
1	iu	54	THR	N-CA	-7.16	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iB	127	GLY	CA-C	-7.16	1.44	1.52
1	j5	12	HIS	CA-C	7.16	1.61	1.52
1	jP	77	ALA	CA-C	-7.16	1.43	1.52
1	kT	170	LYS	CA-C	-7.16	1.43	1.52
1	kY	158	LYS	CA-CB	7.16	1.63	1.53
1	lN	178	SER	N-CA	-7.16	1.36	1.46
1	4n	189	LEU	N-CA	-7.16	1.36	1.46
1	5p	26	VAL	CA-C	-7.16	1.43	1.52
1	5X	72	THR	C-N	7.16	1.43	1.33
1	7H	82	ARG	CA-CB	7.16	1.64	1.53
1	7O	195	ASN	CA-C	7.16	1.61	1.52
1	8n	27	VAL	CA-C	7.16	1.61	1.52
1	96	37	ILE	CA-C	7.16	1.59	1.52
1	9s	145	TYR	CA-CB	7.16	1.63	1.53
1	bz	42	ALA	C-N	7.16	1.43	1.33
1	1d	12	HIS	ND1-CE1	7.16	1.39	1.32
1	do	25	LYS	CA-CB	7.16	1.64	1.53
1	dF	29	GLU	N-CA	7.16	1.54	1.46
1	dR	31	ALA	CA-C	-7.16	1.47	1.53
1	dS	37	ILE	CA-CB	-7.16	1.50	1.54
1	f1	105	ALA	CA-CB	7.16	1.66	1.53
1	fG	26	VAL	C-O	-7.16	1.15	1.24
1	gR	71	GLU	N-CA	7.16	1.55	1.46
1	h1	133	TRP	NE1-CE2	7.16	1.45	1.37
1	h9	190	LEU	C-N	7.16	1.41	1.34
1	i7	185	MET	CA-CB	7.16	1.64	1.53
1	iv	159	GLU	CA-C	7.16	1.62	1.52
1	iw	200	THR	CA-C	-7.16	1.43	1.52
1	iU	124	ILE	CA-C	7.16	1.59	1.53
1	1W	130	TYR	CA-C	7.16	1.61	1.52
1	jQ	181	VAL	CA-C	-7.16	1.44	1.52
1	kc	172	LEU	CA-C	-7.16	1.43	1.52
1	kX	10	MET	CA-C	7.16	1.61	1.52
1	lm	143	ARG	CD-NE	7.16	1.56	1.46
1	2J	37	ILE	CA-C	7.16	1.58	1.52
1	2X	150	ILE	CA-CB	-7.16	1.45	1.54
1	6F	216	THR	N-CA	-7.16	1.37	1.46
1	81	21	ASN	CA-C	-7.16	1.43	1.52
1	9U	221	VAL	C-N	7.16	1.44	1.33
1	9V	67	GLN	N-CA	-7.16	1.37	1.46
1	bm	105	ALA	N-CA	7.16	1.55	1.46
1	bT	23	TRP	CA-C	7.16	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cL	139	ASN	CA-CB	7.16	1.65	1.53
1	el	125	PRO	C-N	7.16	1.43	1.33
1	eV	152	ASP	CA-CB	7.16	1.65	1.53
1	k	147	PRO	CA-C	-7.16	1.42	1.52
1	o	181	VAL	CA-CB	-7.16	1.46	1.54
1	jt	199	LYS	C-N	7.16	1.43	1.33
1	kx	62	HIS	CE1-NE2	7.16	1.39	1.32
1	2V	84	HIS	N-CA	-7.16	1.38	1.46
1	34	84	HIS	ND1-CE1	7.16	1.39	1.32
1	4o	104	ILE	N-CA	7.16	1.55	1.46
1	56	8	GLY	CA-C	7.16	1.59	1.52
1	6t	56	LEU	N-CA	7.16	1.55	1.46
1	aL	45	GLU	N-CA	-7.16	1.37	1.46
1	by	154	ARG	CA-CB	7.16	1.65	1.53
1	da	82	ARG	CD-NE	7.16	1.56	1.46
1	dK	126	VAL	CA-CB	7.16	1.63	1.54
1	ig	115	ILE	N-CA	7.16	1.55	1.46
1	2B	23	TRP	CA-C	7.16	1.62	1.52
1	3F	155	GLN	CA-CB	7.16	1.62	1.53
1	5Z	192	GLN	CA-C	7.16	1.61	1.52
1	6M	14	ALA	CA-CB	7.16	1.64	1.53
1	83	209	ALA	CA-C	7.16	1.62	1.52
1	8M	180	GLU	N-CA	7.16	1.55	1.46
1	9s	124	ILE	CA-C	7.16	1.59	1.53
1	aV	182	LYS	N-CA	7.16	1.55	1.46
1	bg	145	TYR	CA-CB	7.16	1.65	1.53
1	1i	181	VAL	C-N	7.16	1.42	1.33
1	e4	208	ALA	C-N	7.16	1.43	1.33
1	eB	33	SER	CA-C	7.16	1.59	1.52
1	fh	90	PRO	CA-CB	7.16	1.62	1.53
1	fR	156	GLY	N-CA	7.16	1.52	1.43
1	c	181	VAL	CA-CB	-7.16	1.46	1.54
1	s	3	VAL	N-CA	-7.16	1.37	1.46
1	G	5	ASN	CA-C	-7.16	1.43	1.53
1	kt	34	PRO	CA-CB	-7.15	1.43	1.53
1	kF	154	ARG	CD-NE	7.15	1.56	1.46
1	ll	16	SER	C-N	-7.15	1.25	1.34
1	41	84	HIS	CE1-NE2	7.15	1.39	1.32
1	7L	112	GLN	CA-C	7.15	1.62	1.52
1	7X	161	PHE	C-N	7.15	1.43	1.34
1	8D	220	GLY	N-CA	7.15	1.55	1.45
1	8K	196	PRO	N-CD	-7.15	1.37	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ba	84	HIS	CA-C	7.15	1.60	1.52
1	be	82	ARG	C-N	7.15	1.43	1.34
1	1g	97	ARG	CD-NE	7.15	1.56	1.46
1	dS	186	THR	N-CA	-7.15	1.37	1.46
1	1s	229	ARG	CD-NE	7.15	1.56	1.46
1	eL	186	THR	CA-C	-7.15	1.43	1.52
1	n	49	PRO	C-N	7.15	1.43	1.33
1	q	166	ASP	CA-CB	7.15	1.64	1.53
1	K	98	GLU	C-N	7.15	1.40	1.33
1	gV	45	GLU	N-CA	7.15	1.55	1.46
1	jA	166	ASP	CA-CB	7.15	1.64	1.53
1	2b	53	ASN	N-CA	-7.15	1.37	1.46
1	2M	69	LEU	CA-C	7.15	1.62	1.52
1	34	120	HIS	ND1-CE1	7.15	1.39	1.32
1	3v	140	LYS	C-N	7.15	1.42	1.33
1	3N	22	ALA	N-CA	-7.15	1.37	1.46
1	3Y	184	TRP	CA-CB	7.15	1.64	1.53
1	4k	165	VAL	N-CA	-7.15	1.38	1.46
1	57	186	THR	CA-CB	7.15	1.63	1.53
1	5s	12	HIS	CD2-NE2	7.15	1.45	1.37
1	aA	165	VAL	CA-CB	7.15	1.62	1.54
1	aM	176	GLN	CA-CB	7.15	1.64	1.53
1	aN	12	HIS	ND1-CE1	7.15	1.39	1.32
1	1e	120	HIS	C-N	7.15	1.42	1.33
1	da	28	GLU	CA-CB	7.15	1.65	1.53
1	eT	109	SER	N-CA	7.15	1.54	1.45
1	fq	124	ILE	CA-CB	7.15	1.61	1.53
1	h	213	GLU	C-N	7.15	1.43	1.33
1	9	84	HIS	ND1-CE1	7.15	1.39	1.32
1	gb	121	ASN	CA-CB	7.15	1.64	1.53
1	ht	154	ARG	CD-NE	7.15	1.56	1.46
1	it	199	LYS	CA-CB	7.15	1.64	1.53
1	iI	197	ASP	CA-C	7.15	1.62	1.52
1	1U	53	ASN	CA-CB	7.15	1.64	1.53
1	jJ	4	GLN	CA-CB	7.15	1.64	1.53
1	jR	50	GLN	N-CA	7.15	1.55	1.46
1	jR	93	PRO	CA-C	7.15	1.61	1.52
1	48	30	LYS	C-N	7.15	1.43	1.33
1	64	130	TYR	N-CA	-7.15	1.37	1.46
1	9n	143	ARG	CA-C	-7.15	1.44	1.52
1	17	165	VAL	C-N	7.15	1.43	1.33
1	bG	25	LYS	C-N	7.15	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1d	84	HIS	CE1-NE2	-7.15	1.25	1.32
1	dd	2	ILE	CA-CB	7.15	1.63	1.54
1	do	150	ILE	CA-C	7.15	1.61	1.52
1	gb	120	HIS	ND1-CE1	7.15	1.39	1.32
1	hh	155	GLN	CA-C	-7.15	1.44	1.52
1	iS	62	HIS	CG-ND1	-7.15	1.30	1.38
1	kx	69	LEU	CA-C	-7.15	1.43	1.52
1	dI	201	ILE	CA-CB	-7.15	1.44	1.54
1	eL	229	ARG	N-CA	-7.15	1.37	1.46
1	f3	80	TRP	NE1-CE2	-7.15	1.29	1.37
1	fM	226	HIS	CA-CB	7.15	1.64	1.53
1	gC	170	LYS	N-CA	-7.15	1.37	1.46
1	gH	51	ASP	C-N	7.15	1.43	1.33
1	ho	6	LEU	N-CA	-7.15	1.41	1.46
1	j7	161	PHE	CA-CB	7.15	1.64	1.53
1	kP	37	ILE	CA-C	7.15	1.59	1.52
1	2C	22	ALA	CA-CB	7.15	1.64	1.53
1	2Q	84	HIS	CA-C	7.15	1.60	1.53
1	39	190	LEU	CA-C	7.15	1.62	1.52
1	46	81	ASP	CA-CB	7.15	1.65	1.53
1	4k	37	ILE	CA-CB	-7.15	1.50	1.54
1	9w	120	HIS	ND1-CE1	7.15	1.39	1.32
1	aL	88	ALA	CA-C	7.15	1.61	1.52
1	b4	28	GLU	CA-C	7.15	1.61	1.52
1	cr	36	VAL	N-CA	-7.15	1.38	1.46
1	ct	201	ILE	C-O	-7.15	1.15	1.24
1	dW	121	ASN	CA-C	-7.15	1.45	1.52
1	ez	120	HIS	ND1-CE1	7.15	1.39	1.32
1	fO	123	PRO	CA-CB	-7.15	1.44	1.53
1	fP	10	MET	N-CA	-7.15	1.37	1.46
1	u	136	LEU	C-O	-7.15	1.15	1.24
1	L	113	GLU	CA-C	7.15	1.62	1.52
1	iw	179	GLN	CA-CB	7.15	1.64	1.53
1	iX	168	PHE	CA-C	-7.15	1.43	1.52
1	jj	107	THR	CA-CB	7.15	1.64	1.53
1	kk	23	TRP	C-N	7.15	1.43	1.33
1	6H	18	ARG	CA-CB	7.15	1.64	1.53
1	7x	35	GLU	CA-C	7.15	1.62	1.52
1	7U	138	LEU	C-N	7.15	1.43	1.33
1	8h	32	PHE	CA-CB	7.15	1.62	1.53
1	9j	91	ILE	CA-C	7.15	1.60	1.52
1	bl	174	ALA	C-N	7.15	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	br	184	TRP	CA-CB	7.15	1.64	1.53
1	cs	82	ARG	N-CA	-7.15	1.37	1.46
1	cF	94	GLY	N-CA	7.15	1.56	1.45
1	i1	31	ALA	C-N	7.14	1.43	1.33
1	id	99	PRO	CA-CB	-7.14	1.46	1.54
1	2g	52	LEU	N-CA	-7.14	1.37	1.46
1	53	189	LEU	CA-C	7.14	1.62	1.52
1	5L	8	GLY	C-N	7.14	1.42	1.33
1	6f	139	ASN	C-N	7.14	1.43	1.33
1	7I	81	ASP	CA-CB	7.14	1.65	1.53
1	8R	86	VAL	CA-C	-7.14	1.44	1.52
1	as	221	VAL	CA-CB	-7.14	1.45	1.54
1	aT	217	ALA	CA-C	-7.14	1.44	1.52
1	b4	131	LYS	CA-CB	7.14	1.64	1.53
1	bs	189	LEU	N-CA	7.14	1.55	1.46
1	cj	83	LEU	C-N	7.14	1.40	1.33
1	ck	16	SER	CA-CB	7.14	1.64	1.53
1	cx	183	ASN	CA-CB	7.14	1.64	1.53
1	da	29	GLU	CA-CB	7.14	1.64	1.53
1	dD	124	ILE	CA-C	-7.14	1.46	1.53
1	eD	184	TRP	NE1-CE2	7.14	1.45	1.37
1	a	12	HIS	CA-C	-7.14	1.44	1.52
1	G	97	ARG	CD-NE	7.14	1.56	1.46
1	hx	88	ALA	N-CA	7.14	1.52	1.46
1	ie	87	HIS	C-N	7.14	1.43	1.33
1	kH	118	MET	CA-C	-7.14	1.43	1.52
1	25	111	LEU	CA-CB	7.14	1.64	1.53
1	lQ	62	HIS	CE1-NE2	7.14	1.39	1.32
1	2N	214	MET	CA-C	-7.14	1.43	1.52
1	3q	181	VAL	N-CA	7.14	1.55	1.46
1	3Q	96	MET	C-N	7.14	1.43	1.33
1	5J	181	VAL	CA-CB	-7.14	1.45	1.54
1	5R	174	ALA	N-CA	-7.14	1.36	1.46
1	6M	143	ARG	CA-CB	7.14	1.64	1.53
1	7F	159	GLU	CA-CB	7.14	1.62	1.53
1	8n	37	ILE	CA-CB	-7.14	1.50	1.54
1	8w	120	HIS	CD2-NE2	7.14	1.45	1.37
1	bS	196	PRO	N-CA	-7.14	1.38	1.47
1	do	74	ASN	N-CA	-7.14	1.37	1.46
1	dO	75	GLU	CA-CB	7.14	1.64	1.53
1	1x	96	MET	CA-C	7.14	1.62	1.52
1	hr	61	GLY	CA-C	7.14	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3j	135	ILE	C-N	7.14	1.43	1.34
1	45	82	ARG	CD-NE	7.14	1.56	1.46
1	5x	83	LEU	C-N	-7.14	1.26	1.33
1	62	110	THR	N-CA	7.14	1.54	1.45
1	ax	182	LYS	CA-C	7.14	1.61	1.52
1	eH	48	THR	CA-C	-7.14	1.44	1.53
1	fE	176	GLN	CA-CB	7.14	1.65	1.53
1	g1	68	MET	N-CA	7.14	1.55	1.46
1	g8	29	GLU	CA-C	7.14	1.62	1.52
1	jx	175	GLU	CA-CB	7.14	1.63	1.53
1	k6	121	ASN	CA-CB	7.14	1.66	1.53
1	31	120	HIS	CB-CG	7.14	1.60	1.50
1	4y	38	PRO	CA-C	-7.14	1.41	1.52
1	5N	70	LYS	CA-C	7.14	1.61	1.52
1	7c	24	VAL	N-CA	-7.14	1.38	1.46
1	9F	33	SER	CA-CB	7.14	1.64	1.53
1	9V	156	GLY	N-CA	7.14	1.54	1.44
1	cr	79	GLU	CA-C	-7.14	1.43	1.52
1	dp	191	VAL	N-CA	-7.14	1.36	1.46
1	dt	195	ASN	CA-C	7.14	1.61	1.53
1	1o	84	HIS	C-N	7.14	1.43	1.33
1	eF	194	ALA	N-CA	-7.14	1.36	1.46
1	eY	91	ILE	CA-C	7.14	1.61	1.52
1	32	20	LEU	N-CA	-7.14	1.37	1.46
1	6e	117	TRP	CA-C	7.14	1.62	1.52
1	6n	59	VAL	CA-C	7.14	1.60	1.52
1	7D	168	PHE	CA-C	-7.14	1.43	1.52
1	aJ	163	ASP	CA-C	7.14	1.61	1.52
1	bp	125	PRO	CA-CB	7.14	1.58	1.53
1	1f	38	PRO	N-CD	-7.14	1.37	1.47
1	e1	167	ARG	CA-C	-7.14	1.43	1.52
1	1o	102	SER	N-CA	-7.14	1.37	1.46
1	gN	117	TRP	CA-CB	7.14	1.64	1.53
1	iU	134	ILE	CA-CB	-7.14	1.46	1.54
1	jO	180	GLU	C-N	7.14	1.42	1.33
1	lu	14	ALA	CA-C	-7.14	1.43	1.52
1	2p	99	PRO	CA-CB	7.14	1.63	1.53
1	2Y	157	PRO	CA-CB	7.14	1.64	1.53
1	4h	179	GLN	CA-C	-7.14	1.43	1.52
1	4M	133	TRP	NE1-CE2	-7.14	1.29	1.37
1	59	220	GLY	CA-C	-7.14	1.43	1.51
1	6z	112	GLN	CA-C	7.14	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6W	167	ARG	CZ-NH2	-7.14	1.24	1.33
1	aZ	189	LEU	CA-C	7.14	1.61	1.52
1	bs	230	VAL	C-N	7.14	1.43	1.33
1	el	84	HIS	CA-CB	7.14	1.63	1.53
1	eH	134	ILE	CA-C	7.14	1.61	1.52
1	fn	158	LYS	CA-C	-7.14	1.43	1.52
1	fL	12	HIS	CA-C	7.14	1.61	1.52
1	fL	44	SER	C-N	7.14	1.43	1.34
1	w	120	HIS	ND1-CE1	7.14	1.39	1.32
1	8	85	PRO	N-CA	7.14	1.55	1.47
1	gZ	206	GLY	C-N	-7.13	1.27	1.34
1	i9	120	HIS	CA-CB	7.13	1.65	1.53
1	i9	216	THR	N-CA	7.13	1.54	1.46
1	ix	46	GLY	CA-C	7.13	1.61	1.51
1	jY	54	THR	CA-C	-7.13	1.43	1.52
1	k6	191	VAL	CA-C	-7.13	1.43	1.52
1	lh	175	GLU	CA-C	7.13	1.62	1.52
1	2H	147	PRO	N-CD	7.13	1.57	1.47
1	4K	206	GLY	C-N	7.13	1.43	1.33
1	6x	3	VAL	CA-CB	-7.13	1.45	1.54
1	70	132	ARG	CD-NE	7.13	1.56	1.46
1	7v	230	VAL	N-CA	7.13	1.55	1.46
1	7Q	125	PRO	N-CA	-7.13	1.41	1.47
1	bG	200	THR	CA-C	-7.13	1.43	1.52
1	dZ	18	ARG	CD-NE	7.13	1.56	1.46
1	1u	54	THR	C-N	-7.13	1.24	1.33
1	0	124	ILE	CA-CB	7.13	1.63	1.54
1	K	177	ALA	CA-C	7.13	1.62	1.52
1	hC	227	LYS	CA-CB	7.13	1.63	1.53
1	iZ	162	ARG	CA-CB	7.13	1.64	1.53
1	6B	71	GLU	C-N	7.13	1.43	1.33
1	6N	186	THR	N-CA	7.13	1.55	1.46
1	az	37	ILE	CA-CB	7.13	1.58	1.54
1	ce	76	GLU	C-N	7.13	1.43	1.34
1	fu	12	HIS	CA-CB	7.13	1.65	1.53
1	1B	3	VAL	CA-CB	-7.13	1.45	1.54
1	Q	76	GLU	C-N	7.13	1.43	1.33
1	hc	221	VAL	C-O	-7.13	1.16	1.24
1	hG	116	GLY	CA-C	-7.13	1.44	1.52
1	i6	187	GLU	CA-C	7.13	1.62	1.52
1	jk	27	VAL	CA-CB	7.13	1.63	1.54
1	kK	55	MET	CA-CB	7.13	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lC	119	THR	C-N	7.13	1.42	1.33
1	2o	21	ASN	CA-CB	7.13	1.64	1.53
1	3R	115	ILE	CA-CB	-7.13	1.45	1.54
1	4G	12	HIS	ND1-CE1	7.13	1.39	1.32
1	57	154	ARG	CD-NE	7.13	1.56	1.46
1	5K	74	ASN	CA-C	7.13	1.61	1.52
1	7y	105	ALA	CA-C	-7.13	1.43	1.52
1	7M	34	PRO	CA-C	7.13	1.62	1.52
1	a7	113	GLU	CA-CB	7.13	1.64	1.53
1	aV	176	GLN	C-O	-7.13	1.14	1.23
1	cq	62	HIS	CE1-NE2	7.13	1.39	1.32
1	cI	114	GLN	CA-C	-7.13	1.43	1.52
1	1p	86	VAL	CA-CB	-7.13	1.45	1.54
1	eT	177	ALA	N-CA	7.13	1.54	1.46
1	f6	177	ALA	C-N	7.13	1.42	1.33
1	A	227	LYS	CA-CB	7.13	1.65	1.53
1	ho	85	PRO	CA-C	7.13	1.61	1.52
1	hT	77	ALA	CA-CB	7.13	1.64	1.53
1	2O	133	TRP	N-CA	-7.13	1.37	1.46
1	3g	227	LYS	CA-C	7.13	1.61	1.52
1	3t	217	ALA	N-CA	7.13	1.54	1.45
1	49	46	GLY	C-N	7.13	1.43	1.33
1	6y	222	GLY	CA-C	-7.13	1.42	1.51
1	6D	167	ARG	CD-NE	7.13	1.56	1.46
1	7k	91	ILE	CA-CB	-7.13	1.47	1.54
1	7D	169	TYR	CA-CB	7.13	1.64	1.53
1	al	142	VAL	CA-CB	-7.13	1.46	1.54
1	bW	63	GLN	CA-C	-7.13	1.43	1.52
1	dq	124	ILE	CA-C	-7.13	1.47	1.52
1	1C	24	VAL	CA-CB	-7.13	1.45	1.54
1	gr	133	TRP	C-N	7.13	1.42	1.33
1	hb	102	SER	CA-CB	7.13	1.64	1.53
1	hr	62	HIS	CE1-NE2	7.13	1.39	1.32
1	jE	136	LEU	N-CA	-7.13	1.37	1.46
1	kd	161	PHE	C-N	7.13	1.43	1.33
1	kx	228	ALA	N-CA	-7.13	1.37	1.46
1	lp	153	ILE	C-N	7.13	1.43	1.33
1	4e	90	PRO	N-CA	7.13	1.56	1.47
1	4y	15	ILE	N-CA	-7.13	1.37	1.46
1	6j	20	LEU	CA-C	7.13	1.61	1.52
1	7D	74	ASN	C-N	7.13	1.43	1.33
1	89	8	GLY	CA-C	-7.13	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8S	20	LEU	CA-C	7.13	1.62	1.52
1	aB	81	ASP	N-CA	-7.13	1.37	1.46
1	aL	18	ARG	C-N	7.13	1.43	1.33
1	bu	26	VAL	C-N	7.13	1.42	1.33
1	dh	191	VAL	CA-CB	-7.13	1.45	1.54
1	e4	78	ALA	N-CA	-7.13	1.37	1.46
1	fI	211	LEU	C-N	7.13	1.43	1.33
1	m	101	GLY	N-CA	7.13	1.54	1.45
1	B	152	ASP	CA-C	7.13	1.61	1.52
1	gg	113	GLU	C-N	7.13	1.43	1.33
1	gs	33	SER	CA-CB	7.13	1.63	1.53
1	1L	141	ILE	C-N	7.13	1.42	1.33
1	kS	139	ASN	C-N	7.13	1.43	1.33
1	lu	87	HIS	CB-CG	7.13	1.60	1.50
1	2X	82	ARG	N-CA	-7.13	1.37	1.46
1	3s	84	HIS	ND1-CE1	7.13	1.39	1.32
1	3H	43	LEU	CA-C	7.13	1.61	1.52
1	4c	87	HIS	ND1-CE1	7.13	1.39	1.32
1	4N	145	TYR	CA-CB	7.13	1.62	1.53
1	4V	174	ALA	N-CA	-7.13	1.36	1.46
1	6v	56	LEU	C-O	-7.13	1.15	1.24
1	6F	16	SER	CA-CB	7.13	1.63	1.53
1	9R	144	MET	CA-C	7.13	1.62	1.52
1	aK	170	LYS	C-O	-7.13	1.15	1.24
1	aN	155	GLN	CA-CB	7.13	1.62	1.53
1	ep	54	THR	C-N	7.13	1.42	1.33
1	0	125	PRO	CA-CB	7.13	1.61	1.53
1	gO	110	THR	C-N	7.12	1.42	1.33
1	h5	139	ASN	CA-C	7.12	1.61	1.52
1	hP	155	GLN	CA-C	-7.12	1.43	1.52
1	jR	226	HIS	CG-ND1	7.12	1.46	1.38
1	ku	80	TRP	N-CA	-7.12	1.38	1.46
1	3W	104	ILE	C-N	7.12	1.43	1.33
1	54	143	ARG	CZ-NH2	-7.12	1.24	1.33
1	7Y	51	ASP	N-CA	7.12	1.54	1.46
1	8s	59	VAL	CA-CB	7.12	1.62	1.53
1	gs	24	VAL	CA-CB	-7.12	1.45	1.54
1	hd	83	LEU	C-N	7.12	1.44	1.33
1	hl	151	LEU	N-CA	-7.12	1.37	1.46
1	iS	121	ASN	N-CA	-7.12	1.39	1.46
1	jd	127	GLY	CA-C	-7.12	1.44	1.52
1	21	220	GLY	C-N	7.12	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2v	27	VAL	N-CA	7.12	1.54	1.46
1	82	111	LEU	N-CA	-7.12	1.37	1.46
1	8G	214	MET	CA-CB	7.12	1.64	1.53
1	18	78	ALA	N-CA	7.12	1.54	1.46
1	bC	120	HIS	C-N	7.12	1.40	1.33
1	1r	69	LEU	N-CA	7.12	1.54	1.46
1	eZ	120	HIS	C-N	7.12	1.42	1.33
1	fD	212	GLU	CA-CB	7.12	1.64	1.53
1	w	84	HIS	CE1-NE2	7.12	1.39	1.32
1	h2	181	VAL	CA-C	-7.12	1.43	1.52
1	io	101	GLY	CA-C	7.12	1.60	1.52
1	ip	80	TRP	NE1-CE2	-7.12	1.29	1.37
1	kb	138	LEU	CA-C	7.12	1.62	1.52
1	kB	204	ALA	N-CA	-7.12	1.37	1.46
1	kQ	165	VAL	CA-C	-7.12	1.44	1.52
1	lJ	97	ARG	CA-C	7.12	1.62	1.52
1	3t	5	ASN	C-N	7.12	1.42	1.33
1	3D	218	CYS	C-N	7.12	1.42	1.33
1	4v	224	PRO	C-N	7.12	1.42	1.33
1	54	160	PRO	C-N	7.12	1.43	1.33
1	5h	51	ASP	CA-CB	7.12	1.64	1.53
1	5E	189	LEU	C-N	7.12	1.43	1.33
1	7q	57	ASN	C-N	7.12	1.43	1.34
1	7U	85	PRO	N-CA	-7.12	1.42	1.47
1	8G	16	SER	CA-C	7.12	1.60	1.52
1	8L	164	TYR	CA-CB	7.12	1.64	1.53
1	8X	169	TYR	CA-CB	7.12	1.65	1.53
1	9x	64	ALA	CA-CB	7.12	1.64	1.53
1	b3	132	ARG	CD-NE	7.12	1.56	1.46
1	cz	154	ARG	CA-C	7.12	1.61	1.52
1	1r	56	LEU	CA-C	7.12	1.61	1.52
1	1v	117	TRP	NE1-CE2	-7.12	1.29	1.37
1	fb	167	ARG	CD-NE	7.12	1.56	1.46
1	kG	96	MET	C-N	7.12	1.42	1.33
1	ag	153	ILE	CA-CB	-7.12	1.47	1.54
1	aO	33	SER	CA-C	-7.12	1.44	1.53
1	b5	127	GLY	CA-C	-7.12	1.44	1.52
1	c6	139	ASN	C-N	7.12	1.43	1.33
1	1h	56	LEU	CA-CB	7.12	1.64	1.53
1	dh	77	ALA	CA-C	7.12	1.61	1.52
1	1n	58	THR	C-N	7.12	1.41	1.33
1	e	109	SER	CA-C	-7.12	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jK	142	VAL	N-CA	-7.12	1.38	1.46
1	lz	166	ASP	CA-CB	7.12	1.64	1.53
1	lK	84	HIS	CG-CD2	7.12	1.43	1.35
1	2r	51	ASP	N-CA	7.12	1.54	1.46
1	2Z	17	PRO	C-N	-7.12	1.24	1.33
1	30	124	ILE	CA-CB	-7.12	1.46	1.53
1	31	154	ARG	CD-NE	7.12	1.56	1.46
1	41	125	PRO	CA-CB	7.12	1.62	1.53
1	5R	143	ARG	CA-CB	7.12	1.64	1.53
1	6M	88	ALA	CA-C	7.12	1.62	1.52
1	8N	142	VAL	N-CA	7.12	1.54	1.46
1	az	70	LYS	N-CA	7.12	1.54	1.46
1	bn	35	GLU	C-N	7.12	1.42	1.33
1	cf	13	GLN	CA-C	-7.12	1.43	1.52
1	d7	53	ASN	CA-C	7.12	1.62	1.52
1	e4	172	LEU	CA-C	7.12	1.61	1.52
1	fb	41	SER	C-N	7.12	1.43	1.33
1	O	52	LEU	CA-CB	7.12	1.64	1.53
1	iN	32	PHE	C-N	7.12	1.41	1.33
1	lk	155	GLN	CA-C	-7.12	1.44	1.52
1	3T	135	ILE	CA-CB	-7.12	1.45	1.54
1	8o	126	VAL	CA-CB	-7.12	1.46	1.54
1	9z	120	HIS	CB-CG	-7.12	1.40	1.50
1	aY	127	GLY	CA-C	-7.12	1.43	1.51
1	bY	189	LEU	N-CA	-7.12	1.37	1.46
1	c8	229	ARG	CA-CB	7.12	1.64	1.53
1	ck	173	ARG	CD-NE	7.12	1.56	1.46
1	cK	125	PRO	CA-CB	7.12	1.60	1.53
1	ix	62	HIS	CG-CD2	7.12	1.43	1.35
1	iy	59	VAL	CA-CB	7.12	1.61	1.53
1	jy	84	HIS	ND1-CE1	7.12	1.39	1.32
1	kf	162	ARG	C-N	7.12	1.43	1.33
1	ks	152	ASP	CA-CB	7.12	1.66	1.53
1	25	173	ARG	N-CA	-7.12	1.37	1.46
1	2I	65	ALA	CA-C	7.12	1.61	1.52
1	2P	154	ARG	CA-C	7.12	1.61	1.52
1	3o	206	GLY	C-N	7.12	1.42	1.34
1	6o	195	ASN	N-CA	7.12	1.55	1.45
1	7g	177	ALA	CA-C	7.12	1.61	1.52
1	7H	226	HIS	CG-ND1	-7.12	1.30	1.38
1	8I	180	GLU	C-N	7.12	1.42	1.33
1	9C	123	PRO	C-N	7.12	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bM	146	SER	N-CA	-7.12	1.39	1.46
1	cl	221	VAL	N-CA	7.12	1.54	1.46
1	cL	166	ASP	CA-CB	7.12	1.64	1.53
1	fe	181	VAL	CA-C	-7.12	1.44	1.52
1	F	221	VAL	CA-C	-7.12	1.45	1.52
1	iM	134	ILE	CA-C	-7.11	1.43	1.52
1	kR	225	GLY	C-N	7.11	1.43	1.33
1	lh	42	ALA	C-N	7.11	1.43	1.33
1	2f	53	ASN	CA-CB	7.11	1.65	1.53
1	2h	84	HIS	C-N	7.11	1.43	1.33
1	5H	3	VAL	N-CA	-7.11	1.38	1.46
1	6M	139	ASN	N-CA	-7.11	1.37	1.46
1	9d	153	ILE	N-CA	-7.11	1.36	1.46
1	a2	101	GLY	C-O	-7.11	1.15	1.23
1	bI	87	HIS	ND1-CE1	7.11	1.39	1.32
1	cm	84	HIS	CD2-NE2	7.11	1.45	1.37
1	dd	90	PRO	N-CA	7.11	1.55	1.47
1	dB	152	ASP	C-N	7.11	1.40	1.33
1	dX	173	ARG	CD-NE	7.11	1.56	1.46
1	eJ	5	ASN	CA-CB	7.11	1.62	1.53
1	eR	62	HIS	CE1-NE2	7.11	1.39	1.32
1	2	100	ARG	CA-CB	7.11	1.63	1.53
1	gn	68	MET	N-CA	7.11	1.54	1.46
1	h8	162	ARG	CA-C	-7.11	1.43	1.52
1	hZ	13	GLN	CA-CB	7.11	1.65	1.53
1	7u	161	PHE	CA-C	7.11	1.62	1.52
1	81	196	PRO	N-CD	-7.11	1.37	1.47
1	8d	92	GLU	CA-C	7.11	1.62	1.53
1	8X	127	GLY	C-N	7.11	1.43	1.33
1	99	153	ILE	CA-CB	-7.11	1.45	1.54
1	9C	54	THR	N-CA	-7.11	1.37	1.46
1	14	149	SER	N-CA	7.11	1.55	1.46
1	dq	128	GLU	CA-CB	7.11	1.64	1.53
1	em	120	HIS	CA-C	7.11	1.63	1.53
1	fs	102	SER	CA-C	-7.11	1.43	1.52
1	gg	112	GLN	N-CA	-7.11	1.37	1.46
1	hK	226	HIS	ND1-CE1	7.11	1.39	1.32
1	hR	98	GLU	CA-CB	7.11	1.63	1.53
1	1O	215	MET	CA-CB	7.11	1.65	1.53
1	kJ	37	ILE	CA-C	7.11	1.59	1.52
1	28	188	THR	CA-C	-7.11	1.47	1.52
1	lA	84	HIS	ND1-CE1	7.11	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3P	116	GLY	CA-C	-7.11	1.44	1.52
1	3Z	195	ASN	CA-C	7.11	1.61	1.52
1	4H	62	HIS	CE1-NE2	7.11	1.39	1.32
1	5l	47	ALA	CA-C	7.11	1.61	1.52
1	5w	158	LYS	CA-CB	7.11	1.62	1.53
1	5A	125	PRO	CA-CB	7.11	1.62	1.53
1	6M	2	ILE	N-CA	-7.11	1.38	1.46
1	7d	134	ILE	CA-C	7.11	1.61	1.52
1	7j	45	GLU	C-N	7.11	1.40	1.33
1	8N	64	ALA	C-N	-7.11	1.24	1.33
1	94	74	ASN	CA-CB	7.11	1.65	1.53
1	9P	174	ALA	CA-CB	7.11	1.64	1.53
1	b1	134	ILE	C-N	7.11	1.42	1.33
1	18	215	MET	CA-C	7.11	1.62	1.52
1	bD	168	PHE	C-N	7.11	1.43	1.33
1	cl	10	MET	N-CA	-7.11	1.37	1.46
1	dM	32	PHE	CA-C	7.11	1.61	1.53
1	eI	227	LYS	CA-C	7.11	1.62	1.52
1	g5	188	THR	CA-C	-7.11	1.48	1.52
1	8	27	VAL	C-N	7.11	1.43	1.33
1	hq	2	ILE	CA-C	-7.11	1.44	1.52
1	iV	121	ASN	N-CA	-7.11	1.39	1.46
1	lr	61	GLY	CA-C	-7.11	1.44	1.51
1	2y	117	TRP	C-O	-7.11	1.15	1.24
1	3u	156	GLY	C-N	-7.11	1.25	1.34
1	79	81	ASP	CA-CB	7.11	1.66	1.53
1	aY	16	SER	CA-CB	7.11	1.64	1.53
1	cM	28	GLU	C-N	7.11	1.44	1.33
1	l	117	TRP	NE1-CE2	-7.11	1.29	1.37
1	gn	92	GLU	CA-C	7.11	1.61	1.52
1	gY	36	VAL	N-CA	-7.11	1.37	1.46
1	iH	212	GLU	CA-C	-7.11	1.43	1.52
1	jv	133	TRP	C-N	7.11	1.42	1.33
1	jG	35	GLU	CA-CB	7.11	1.64	1.53
1	jG	84	HIS	CE1-NE2	7.11	1.39	1.32
1	k4	16	SER	CA-CB	7.11	1.67	1.53
1	2X	222	GLY	N-CA	7.11	1.54	1.45
1	3e	164	TYR	C-N	7.11	1.42	1.33
1	6j	12	HIS	ND1-CE1	7.11	1.39	1.32
1	6F	45	GLU	CA-C	-7.11	1.43	1.52
1	83	66	MET	CA-C	7.11	1.61	1.52
1	8O	87	HIS	CG-CD2	7.11	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8X	148	THR	CA-C	-7.11	1.43	1.52
1	94	116	GLY	CA-C	-7.11	1.43	1.51
1	a4	177	ALA	C-N	7.11	1.43	1.33
1	1a	120	HIS	ND1-CE1	7.11	1.39	1.32
1	cf	135	ILE	CA-C	7.11	1.61	1.52
1	cB	167	ARG	N-CA	-7.11	1.37	1.46
1	di	187	GLU	N-CA	7.11	1.55	1.46
1	dS	111	LEU	N-CA	-7.11	1.38	1.46
1	eo	16	SER	CA-CB	7.11	1.64	1.53
1	f6	11	VAL	CA-C	-7.11	1.45	1.53
1	ff	37	ILE	CA-C	-7.11	1.46	1.52
1	fX	42	ALA	C-N	7.11	1.43	1.34
1	3	153	ILE	CA-C	7.11	1.60	1.52
1	X	131	LYS	CA-C	-7.11	1.43	1.52
1	ha	67	GLN	CA-C	-7.11	1.43	1.52
1	kG	33	SER	C-N	7.11	1.40	1.33
1	kU	167	ARG	CD-NE	7.11	1.56	1.46
1	31	18	ARG	CD-NE	7.11	1.56	1.46
1	3u	32	PHE	CA-CB	7.11	1.63	1.53
1	3O	197	ASP	CA-C	7.11	1.61	1.52
1	53	159	GLU	CA-C	-7.11	1.45	1.52
1	62	85	PRO	C-N	7.11	1.42	1.33
1	7T	168	PHE	CA-C	7.11	1.62	1.52
1	8n	39	MET	CA-C	7.11	1.62	1.52
1	8A	168	PHE	N-CA	-7.11	1.37	1.46
1	12	167	ARG	C-N	7.11	1.42	1.33
1	aQ	33	SER	CA-C	7.11	1.62	1.53
1	bC	112	GLN	N-CA	7.11	1.55	1.46
1	cy	30	LYS	N-CA	7.11	1.55	1.45
1	gH	62	HIS	ND1-CE1	-7.10	1.25	1.32
1	jW	229	ARG	N-CA	7.10	1.54	1.45
1	kV	110	THR	C-N	7.10	1.43	1.34
1	3v	177	ALA	N-CA	-7.10	1.37	1.46
1	5f	25	LYS	CA-CB	7.10	1.64	1.53
1	68	174	ALA	N-CA	-7.10	1.36	1.46
1	6t	229	ARG	CD-NE	7.10	1.56	1.46
1	7F	171	THR	CA-C	7.10	1.62	1.52
1	9X	99	PRO	N-CA	-7.10	1.38	1.47
1	cS	67	GLN	CA-C	7.10	1.61	1.52
1	dk	226	HIS	CA-C	7.10	1.61	1.52
1	dy	151	LEU	CA-C	7.10	1.61	1.52
1	eP	62	HIS	CA-CB	7.10	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fH	130	TYR	CA-C	7.10	1.61	1.52
1	0	139	ASN	CA-C	-7.10	1.43	1.52
1	gi	123	PRO	CA-CB	7.10	1.62	1.53
1	hL	180	GLU	CA-C	7.10	1.62	1.52
1	iq	35	GLU	CA-CB	7.10	1.66	1.53
1	ir	229	ARG	CD-NE	7.10	1.56	1.46
1	lt	215	MET	C-N	7.10	1.43	1.33
1	2B	42	ALA	CA-CB	7.10	1.64	1.53
1	30	118	MET	CA-CB	7.10	1.65	1.53
1	4x	12	HIS	ND1-CE1	7.10	1.39	1.32
1	4D	152	ASP	C-N	7.10	1.41	1.33
1	51	141	ILE	N-CA	-7.10	1.37	1.46
1	59	124	ILE	CA-C	7.10	1.58	1.53
1	66	58	THR	CA-C	7.10	1.62	1.52
1	7I	166	ASP	C-N	7.10	1.43	1.33
1	81	130	TYR	CA-CB	7.10	1.64	1.53
1	8b	173	ARG	N-CA	-7.10	1.37	1.46
1	8e	62	HIS	CE1-NE2	7.10	1.39	1.32
1	9b	147	PRO	CA-C	7.10	1.62	1.52
1	9t	137	GLY	CA-C	-7.10	1.42	1.51
1	bE	29	GLU	CA-C	7.10	1.62	1.52
1	dp	161	PHE	CA-C	7.10	1.62	1.52
1	eg	92	GLU	CA-C	7.10	1.60	1.53
1	v	220	GLY	C-N	7.10	1.42	1.33
1	B	87	HIS	ND1-CE1	7.10	1.39	1.32
1	3	116	GLY	N-CA	7.10	1.54	1.45
1	ij	204	ALA	C-N	7.10	1.43	1.33
1	2I	130	TYR	CA-C	7.10	1.62	1.52
1	3V	84	HIS	CG-ND1	-7.10	1.30	1.38
1	5g	178	SER	CA-C	-7.10	1.43	1.53
1	6y	171	THR	CA-C	7.10	1.62	1.52
1	at	24	VAL	CA-CB	-7.10	1.46	1.54
1	cb	35	GLU	N-CA	-7.10	1.36	1.46
1	cn	227	LYS	CA-C	-7.10	1.43	1.52
1	1e	87	HIS	CE1-NE2	-7.10	1.25	1.32
1	d4	160	PRO	N-CA	-7.10	1.38	1.47
1	dr	149	SER	C-N	7.10	1.41	1.33
1	fd	49	PRO	N-CA	-7.10	1.38	1.47
1	hz	84	HIS	CA-C	-7.10	1.45	1.52
1	hT	121	ASN	N-CA	-7.10	1.37	1.46
1	iL	84	HIS	ND1-CE1	7.10	1.39	1.32
1	jk	183	ASN	CA-CB	7.10	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ko	37	ILE	CA-CB	7.10	1.58	1.54
1	la	65	ALA	CA-C	7.10	1.61	1.52
1	ln	72	THR	N-CA	7.10	1.54	1.46
1	lr	116	GLY	C-N	7.10	1.43	1.33
1	lt	115	ILE	CA-CB	7.10	1.62	1.54
1	2m	96	MET	C-N	7.10	1.42	1.33
1	2y	83	LEU	CA-C	7.10	1.62	1.52
1	38	119	THR	N-CA	7.10	1.54	1.46
1	3I	197	ASP	N-CA	7.10	1.55	1.46
1	4s	194	ALA	CA-C	7.10	1.62	1.53
1	5l	201	ILE	C-N	7.10	1.43	1.33
1	5n	174	ALA	CA-C	7.10	1.62	1.52
1	5H	199	LYS	N-CA	-7.10	1.37	1.46
1	62	125	PRO	CA-C	-7.10	1.47	1.53
1	7z	69	LEU	CA-CB	7.10	1.64	1.53
1	8a	25	LYS	C-O	-7.10	1.15	1.24
1	8G	221	VAL	N-CA	7.10	1.54	1.46
1	93	70	LYS	CA-C	7.10	1.62	1.52
1	bx	191	VAL	N-CA	-7.10	1.37	1.46
1	bU	41	SER	N-CA	7.10	1.55	1.46
1	cb	125	PRO	CA-CB	7.10	1.57	1.53
1	eU	130	TYR	C-N	7.10	1.42	1.33
1	f0	114	GLN	C-O	-7.10	1.15	1.24
1	fk	190	LEU	CA-CB	7.10	1.64	1.53
1	fS	10	MET	CA-CB	7.10	1.62	1.52
1	o	18	ARG	CZ-NH2	-7.10	1.24	1.33
1	V	178	SER	CA-C	7.10	1.62	1.52
1	ja	4	GLN	CA-C	7.10	1.61	1.53
1	jE	5	ASN	C-O	7.10	1.32	1.23
1	lb	140	LYS	CA-CB	7.10	1.65	1.53
1	2N	115	ILE	CA-C	7.10	1.63	1.52
1	5t	133	TRP	N-CA	-7.10	1.37	1.46
1	6k	5	ASN	CA-C	-7.10	1.44	1.52
1	76	217	ALA	N-CA	-7.10	1.36	1.45
1	9r	8	GLY	N-CA	7.10	1.55	1.45
1	aT	175	GLU	CA-C	7.10	1.62	1.52
1	d1	87	HIS	CA-C	-7.10	1.44	1.52
1	ej	5	ASN	CA-CB	7.10	1.64	1.53
1	eC	216	THR	N-CA	7.10	1.55	1.46
1	fQ	55	MET	C-N	7.10	1.43	1.33
1	g1	198	CYS	CA-CB	7.10	1.65	1.53
1	g5	12	HIS	CA-CB	7.10	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gm	37	ILE	CA-CB	-7.10	1.50	1.54
1	1R	157	PRO	N-CA	-7.10	1.39	1.47
1	ka	97	ARG	CA-CB	7.10	1.64	1.53
1	kl	166	ASP	CA-C	-7.10	1.43	1.52
1	3h	86	VAL	CA-C	7.10	1.61	1.52
1	3V	218	CYS	CA-CB	7.10	1.63	1.53
1	4p	69	LEU	CA-CB	7.10	1.64	1.53
1	79	157	PRO	CA-CB	7.10	1.63	1.53
1	8e	62	HIS	CA-C	-7.10	1.43	1.53
1	9b	173	ARG	CD-NE	7.10	1.56	1.46
1	bB	172	LEU	CA-C	-7.10	1.43	1.52
1	hJ	120	HIS	CA-C	-7.09	1.44	1.52
1	il	32	PHE	CA-C	7.09	1.62	1.52
1	iw	62	HIS	CE1-NE2	7.09	1.39	1.32
1	l2	153	ILE	C-O	-7.09	1.16	1.24
1	lq	65	ALA	N-CA	7.09	1.55	1.46
1	lz	84	HIS	CD2-NE2	7.09	1.45	1.37
1	2n	73	ILE	CA-CB	7.09	1.62	1.54
1	3C	33	SER	CA-C	-7.09	1.45	1.53
1	3T	174	ALA	C-N	7.09	1.43	1.33
1	4r	133	TRP	NE1-CE2	7.09	1.45	1.37
1	5e	87	HIS	CE1-NE2	-7.09	1.25	1.32
1	6X	84	HIS	N-CA	7.09	1.53	1.46
1	72	105	ALA	C-N	7.09	1.41	1.33
1	7g	47	ALA	N-CA	-7.09	1.36	1.46
1	7j	220	GLY	CA-C	-7.09	1.41	1.51
1	9z	177	ALA	CA-CB	7.09	1.65	1.53
1	9H	24	VAL	CA-CB	-7.09	1.46	1.54
1	dN	74	ASN	CA-C	-7.09	1.43	1.52
1	eP	191	VAL	CA-C	-7.09	1.45	1.52
1	k	229	ARG	CA-CB	7.09	1.64	1.53
1	F	116	GLY	CA-C	-7.09	1.44	1.52
1	3D	130	TYR	C-O	-7.09	1.16	1.24
1	3O	9	GLN	C-N	7.09	1.42	1.33
1	5I	85	PRO	CA-C	-7.09	1.45	1.53
1	7X	193	ASN	CA-C	-7.09	1.44	1.52
1	f1	203	LYS	CA-C	7.09	1.61	1.52
1	1z	165	VAL	CA-C	-7.09	1.43	1.52
1	fV	53	ASN	CA-C	-7.09	1.43	1.52
1	gT	177	ALA	CA-C	7.09	1.61	1.52
1	1L	114	GLN	C-N	7.09	1.42	1.33
1	iQ	211	LEU	CA-CB	7.09	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jK	92	GLU	CA-C	7.09	1.61	1.53
1	lq	227	LYS	CA-CB	7.09	1.62	1.53
1	28	39	MET	N-CA	7.09	1.55	1.46
1	lN	146	SER	CA-C	7.09	1.58	1.52
1	33	186	THR	N-CA	7.09	1.55	1.46
1	3c	72	THR	C-N	7.09	1.42	1.33
1	3U	69	LEU	CA-C	-7.09	1.44	1.52
1	4O	25	LYS	N-CA	7.09	1.54	1.46
1	5t	168	PHE	N-CA	-7.09	1.38	1.46
1	6d	28	GLU	CA-CB	7.09	1.65	1.53
1	7n	107	THR	CA-C	-7.09	1.43	1.52
1	8u	52	LEU	CA-C	7.09	1.61	1.52
1	9p	76	GLU	CA-C	-7.09	1.43	1.52
1	9w	33	SER	CA-C	-7.09	1.45	1.53
1	a7	121	ASN	CA-C	7.09	1.61	1.52
1	aw	16	SER	CA-C	-7.09	1.44	1.52
1	bB	30	LYS	CA-C	7.09	1.62	1.52
1	1j	11	VAL	CA-C	7.09	1.61	1.52
1	eV	62	HIS	CE1-NE2	7.09	1.39	1.32
1	fF	119	THR	CA-C	7.09	1.61	1.52
1	d	116	GLY	C-N	7.09	1.43	1.33
1	M	109	SER	CA-C	-7.09	1.44	1.52
1	gJ	44	SER	CA-C	-7.09	1.43	1.52
1	io	93	PRO	CA-CB	7.09	1.63	1.53
1	iC	114	GLN	CA-C	7.09	1.61	1.52
1	iR	120	HIS	CA-CB	7.09	1.65	1.53
1	jj	39	MET	N-CA	-7.09	1.37	1.46
1	kb	121	ASN	CA-C	-7.09	1.46	1.52
1	kf	118	MET	C-N	7.09	1.43	1.33
1	2l	149	SER	CA-CB	-7.09	1.43	1.53
1	5f	173	ARG	NE-CZ	-7.09	1.25	1.33
1	5i	143	ARG	C-N	7.09	1.43	1.33
1	6J	18	ARG	CD-NE	7.09	1.56	1.46
1	8o	12	HIS	ND1-CE1	7.09	1.39	1.32
1	cS	192	GLN	C-O	-7.09	1.15	1.24
1	d3	81	ASP	C-N	7.09	1.42	1.33
1	ek	120	HIS	CA-CB	7.09	1.65	1.53
1	eD	208	ALA	N-CA	-7.09	1.38	1.46
1	eG	209	ALA	N-CA	-7.09	1.37	1.46
1	fZ	225	GLY	CA-C	-7.09	1.43	1.51
1	0	226	HIS	CA-CB	7.09	1.64	1.53
1	c	209	ALA	C-N	7.09	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kV	213	GLU	N-CA	-7.09	1.37	1.46
1	8F	162	ARG	CA-C	-7.09	1.43	1.52
1	b0	100	ARG	CA-C	-7.09	1.44	1.52
1	1e	202	LEU	CA-C	7.09	1.61	1.52
1	d4	130	TYR	CA-CB	7.09	1.64	1.53
1	d4	149	SER	CA-CB	7.09	1.64	1.53
1	f0	103	ASP	C-N	7.09	1.41	1.34
1	g	129	ILE	CA-CB	-7.09	1.45	1.54
1	gu	93	PRO	CA-C	-7.09	1.46	1.53
1	hz	29	GLU	CA-C	7.09	1.61	1.52
1	hC	62	HIS	CE1-NE2	7.09	1.39	1.32
1	jn	97	ARG	N-CA	-7.09	1.37	1.46
1	l3	175	GLU	CA-C	7.09	1.62	1.52
1	l5	146	SER	CA-C	7.09	1.61	1.52
1	lD	37	ILE	CA-CB	-7.09	1.50	1.54
1	lL	145	TYR	CA-CB	-7.09	1.43	1.53
1	2x	16	SER	CA-C	7.09	1.61	1.52
1	3Q	19	THR	CA-C	7.09	1.61	1.52
1	3Z	92	GLU	C-N	-7.09	1.27	1.33
1	6m	15	ILE	CA-CB	7.09	1.61	1.54
1	7r	23	TRP	C-N	7.09	1.42	1.34
1	7R	75	GLU	C-N	7.09	1.43	1.33
1	95	29	GLU	CA-C	7.09	1.61	1.52
1	aC	158	LYS	CA-C	7.09	1.63	1.52
1	aF	190	LEU	N-CA	-7.09	1.37	1.46
1	cw	87	HIS	CE1-NE2	-7.09	1.25	1.32
1	dt	169	TYR	CA-CB	-7.09	1.42	1.53
1	dB	104	ILE	CA-C	-7.09	1.43	1.52
1	ff	115	ILE	CA-C	7.09	1.64	1.52
1	fj	120	HIS	CD2-NE2	7.09	1.45	1.37
1	fp	10	MET	N-CA	-7.09	1.37	1.46
1	l	129	ILE	CA-C	7.09	1.61	1.52
1	h3	173	ARG	CD-NE	7.08	1.56	1.46
1	i4	213	GLU	CA-CB	7.08	1.64	1.53
1	5Z	28	GLU	C-N	7.08	1.43	1.33
1	a7	50	GLN	CA-CB	7.08	1.64	1.53
1	1q	229	ARG	CA-CB	7.08	1.63	1.53
1	eH	88	ALA	CA-C	-7.08	1.44	1.52
1	q	33	SER	CA-C	7.08	1.61	1.52
1	M	7	GLN	CA-C	7.08	1.62	1.52
1	8	107	THR	CA-C	-7.08	1.43	1.52
1	gs	57	ASN	CA-CB	7.08	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1H	197	ASP	C-N	7.08	1.42	1.33
1	i7	154	ARG	CD-NE	7.08	1.56	1.46
1	ih	60	GLY	CA-C	-7.08	1.41	1.51
1	2A	117	TRP	CA-CB	7.08	1.64	1.53
1	2F	165	VAL	N-CA	-7.08	1.38	1.46
1	3Q	157	PRO	N-CD	-7.08	1.37	1.47
1	5U	153	ILE	CA-CB	-7.08	1.47	1.54
1	6a	120	HIS	ND1-CE1	7.08	1.39	1.32
1	6X	179	GLN	C-N	7.08	1.42	1.33
1	9d	83	LEU	N-CA	-7.08	1.37	1.46
1	9y	194	ALA	CA-C	7.08	1.62	1.52
1	a7	96	MET	CA-C	7.08	1.62	1.53
1	bn	85	PRO	C-N	7.08	1.41	1.33
1	cd	184	TRP	CA-C	7.08	1.61	1.52
1	dW	155	GLN	CA-C	-7.08	1.43	1.52
1	dY	85	PRO	CA-C	7.08	1.61	1.52
1	fw	134	ILE	N-CA	-7.08	1.37	1.46
1	b	128	GLU	CA-C	7.08	1.61	1.52
1	g9	226	HIS	CD2-NE2	7.08	1.45	1.37
1	1D	177	ALA	CA-C	-7.08	1.43	1.52
1	hN	10	MET	CA-C	-7.08	1.44	1.52
1	jH	21	ASN	CA-C	-7.08	1.43	1.52
1	ke	120	HIS	C-N	7.08	1.42	1.33
1	kq	127	GLY	CA-C	7.08	1.59	1.52
1	kJ	71	GLU	CA-C	-7.08	1.43	1.52
1	kQ	132	ARG	CA-C	-7.08	1.43	1.52
1	lK	153	ILE	CA-C	7.08	1.62	1.52
1	2t	42	ALA	C-N	-7.08	1.23	1.33
1	2D	157	PRO	N-CA	7.08	1.55	1.47
1	2G	109	SER	CA-C	-7.08	1.43	1.52
1	2X	194	ALA	CA-CB	7.08	1.63	1.53
1	36	192	GLN	CA-CB	7.08	1.65	1.53
1	6I	211	LEU	CA-C	-7.08	1.43	1.52
1	8W	152	ASP	CA-CB	7.08	1.66	1.53
1	am	104	ILE	N-CA	7.08	1.54	1.46
1	ev	5	ASN	C-N	7.08	1.42	1.33
1	ew	139	ASN	CA-C	7.08	1.61	1.52
1	fQ	135	ILE	C-N	7.08	1.43	1.33
1	y	40	PHE	CA-CB	7.08	1.64	1.53
1	hZ	97	ARG	CD-NE	7.08	1.56	1.46
1	ik	154	ARG	CD-NE	7.08	1.56	1.46
1	lE	195	ASN	CA-C	-7.08	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lM	45	GLU	CA-C	-7.08	1.43	1.52
1	6b	111	LEU	CA-C	7.08	1.61	1.52
1	7S	182	LYS	C-N	7.08	1.43	1.33
1	8V	83	LEU	C-N	7.08	1.40	1.33
1	90	55	MET	C-N	7.08	1.44	1.33
1	eE	84	HIS	CD2-NE2	7.08	1.45	1.37
1	eY	13	GLN	C-N	7.08	1.43	1.33
1	ip	12	HIS	CA-C	7.08	1.61	1.52
1	iD	91	ILE	CA-CB	7.08	1.63	1.54
1	k7	20	LEU	CA-C	7.08	1.61	1.52
1	kt	192	GLN	C-N	7.08	1.43	1.33
1	kN	8	GLY	C-N	7.08	1.42	1.33
1	lt	121	ASN	C-O	-7.08	1.16	1.24
1	32	50	GLN	C-N	7.08	1.43	1.33
1	3H	27	VAL	C-N	7.08	1.42	1.33
1	4k	45	GLU	C-N	7.08	1.42	1.33
1	5x	153	ILE	N-CA	-7.08	1.37	1.46
1	64	75	GLU	CA-CB	7.08	1.64	1.53
1	6y	193	ASN	CA-C	7.08	1.62	1.52
1	6D	55	MET	N-CA	-7.08	1.37	1.46
1	6G	107	THR	CA-CB	7.08	1.64	1.53
1	7p	12	HIS	ND1-CE1	7.08	1.39	1.32
1	9p	114	GLN	CA-C	7.08	1.61	1.52
1	9E	211	LEU	C-N	7.08	1.42	1.33
1	by	64	ALA	CA-C	7.08	1.61	1.52
1	c0	208	ALA	CA-CB	7.08	1.62	1.53
1	cE	80	TRP	N-CA	-7.08	1.37	1.46
1	cU	62	HIS	CE1-NE2	7.08	1.39	1.32
1	dt	226	HIS	C-N	7.08	1.43	1.33
1	ed	49	PRO	C-N	7.08	1.42	1.33
1	eD	227	LYS	N-CA	7.08	1.54	1.46
1	jw	63	GLN	N-CA	-7.08	1.37	1.46
1	lh	45	GLU	C-N	7.08	1.43	1.33
1	87	211	LEU	C-N	7.08	1.42	1.33
1	8D	70	LYS	CA-CB	7.08	1.64	1.53
1	a4	134	ILE	C-N	7.08	1.42	1.33
1	bI	82	ARG	CA-C	7.08	1.61	1.52
1	fZ	161	PHE	N-CA	-7.08	1.37	1.46
1	g9	115	ILE	CA-CB	7.08	1.63	1.54
1	gf	112	GLN	CA-CB	7.08	1.65	1.53
1	gL	199	LYS	CA-C	-7.08	1.43	1.52
1	h1	98	GLU	CA-C	7.08	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h4	87	HIS	ND1-CE1	7.08	1.39	1.32
1	h9	151	LEU	CA-C	-7.08	1.42	1.52
1	ig	15	ILE	CA-C	7.08	1.61	1.52
1	iw	184	TRP	CA-C	7.08	1.61	1.52
1	1S	23	TRP	C-N	7.08	1.42	1.33
1	iX	183	ASN	C-N	7.08	1.42	1.33
1	j7	55	MET	C-O	-7.08	1.15	1.24
1	23	177	ALA	C-N	7.08	1.39	1.33
1	lC	18	ARG	CD-NE	7.08	1.56	1.46
1	3r	202	LEU	CA-CB	7.08	1.64	1.53
1	4D	47	ALA	N-CA	-7.08	1.36	1.46
1	5S	81	ASP	N-CA	-7.08	1.37	1.46
1	6z	28	GLU	C-N	7.08	1.43	1.33
1	7v	3	VAL	CA-CB	-7.08	1.44	1.54
1	92	202	LEU	CA-C	-7.08	1.43	1.52
1	9s	218	CYS	C-N	7.08	1.43	1.33
1	ay	144	MET	C-N	7.08	1.42	1.33
1	aQ	113	GLU	C-N	7.08	1.42	1.33
1	ci	68	MET	C-O	-7.08	1.15	1.24
1	dN	90	PRO	CA-C	7.08	1.62	1.52
1	ea	38	PRO	C-N	7.08	1.43	1.33
1	eu	195	ASN	CA-CB	7.08	1.64	1.53
1	C	191	VAL	CA-CB	7.08	1.64	1.54
1	hi	82	ARG	N-CA	7.07	1.54	1.46
1	ii	34	PRO	CA-C	7.07	1.62	1.52
1	iX	157	PRO	CA-C	-7.07	1.42	1.52
1	1U	206	GLY	C-N	-7.07	1.27	1.33
1	je	126	VAL	CA-CB	-7.07	1.46	1.54
1	kz	159	GLU	C-N	7.07	1.42	1.33
1	3k	48	THR	C-N	-7.07	1.23	1.33
1	63	37	ILE	CA-C	7.07	1.60	1.52
1	6G	203	LYS	CA-CB	7.07	1.64	1.53
1	75	79	GLU	C-N	7.07	1.43	1.33
1	7q	118	MET	CA-CB	7.07	1.65	1.53
1	8e	91	ILE	CB-CG1	7.07	1.67	1.53
1	9s	87	HIS	N-CA	-7.07	1.37	1.46
1	11	161	PHE	CA-C	-7.07	1.43	1.52
1	ce	56	LEU	C-N	7.07	1.44	1.33
1	de	230	VAL	N-CA	7.07	1.52	1.46
1	ej	156	GLY	CA-C	-7.07	1.41	1.51
1	fv	204	ALA	C-N	7.07	1.44	1.33
1	c	54	THR	N-CA	7.07	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hl	199	LYS	N-CA	7.07	1.54	1.46
1	3S	135	ILE	CA-CB	7.07	1.63	1.54
1	8v	61	GLY	N-CA	7.07	1.54	1.44
1	8N	162	ARG	CD-NE	7.07	1.56	1.46
1	ai	123	PRO	C-N	7.07	1.39	1.33
1	aj	114	GLN	N-CA	-7.07	1.38	1.46
1	bw	84	HIS	CA-CB	7.07	1.62	1.53
1	gV	59	VAL	N-CA	7.07	1.54	1.46
1	hs	99	PRO	CA-CB	7.07	1.61	1.54
1	ka	58	THR	N-CA	-7.07	1.37	1.46
1	2c	146	SER	CA-C	7.07	1.60	1.53
1	6Y	39	MET	C-N	7.07	1.42	1.33
1	7m	73	ILE	CA-CB	-7.07	1.45	1.54
1	7C	227	LYS	CA-CB	7.07	1.63	1.53
1	7O	165	VAL	C-N	7.07	1.43	1.33
1	al	170	LYS	CA-CB	7.07	1.64	1.53
1	am	61	GLY	CA-C	-7.07	1.42	1.51
1	14	177	ALA	CA-C	7.07	1.61	1.52
1	bv	63	GLN	CA-CB	7.07	1.65	1.53
1	c9	89	GLY	C-N	-7.07	1.24	1.33
1	cl	45	GLU	CA-CB	7.07	1.65	1.53
1	cu	120	HIS	CB-CG	7.07	1.60	1.50
1	da	32	PHE	CA-CB	7.07	1.62	1.52
1	dK	221	VAL	CA-C	7.07	1.61	1.52
1	dZ	117	TRP	NE1-CE2	7.07	1.45	1.37
1	ep	124	ILE	C-O	-7.07	1.15	1.24
1	fJ	112	GLN	N-CA	-7.07	1.37	1.46
1	1B	212	GLU	C-N	7.07	1.42	1.33
1	0	64	ALA	N-CA	7.07	1.54	1.46
1	G	221	VAL	C-N	-7.07	1.25	1.33
1	lt	84	HIS	CA-C	7.07	1.61	1.52
1	9I	50	GLN	CA-CB	7.07	1.64	1.53
1	am	207	PRO	CA-CB	7.07	1.64	1.54
1	bk	159	GLU	C-O	-7.07	1.18	1.25
1	bF	147	PRO	CA-CB	7.07	1.63	1.53
1	g4	129	ILE	CA-C	7.07	1.61	1.52
1	gr	87	HIS	ND1-CE1	7.07	1.39	1.32
1	gA	124	ILE	CA-C	7.07	1.58	1.52
1	gU	110	THR	C-N	7.07	1.43	1.33
1	id	184	TRP	N-CA	-7.07	1.37	1.46
1	ik	28	GLU	N-CA	-7.07	1.38	1.46
1	lg	103	ASP	N-CA	-7.07	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3q	130	TYR	C-N	7.07	1.42	1.33
1	3B	78	ALA	CA-C	7.07	1.61	1.52
1	42	158	LYS	CA-C	7.07	1.62	1.52
1	76	84	HIS	CE1-NE2	-7.07	1.25	1.32
1	7i	129	ILE	CB-CG1	7.07	1.67	1.53
1	7A	168	PHE	CA-CB	7.07	1.64	1.53
1	9f	115	ILE	CA-C	7.07	1.62	1.52
1	9A	142	VAL	C-N	7.07	1.42	1.33
1	9B	67	GLN	C-N	7.07	1.43	1.33
1	b9	154	ARG	CA-CB	7.07	1.64	1.53
1	ba	24	VAL	CA-CB	-7.07	1.45	1.54
1	bv	153	ILE	CA-CB	7.07	1.62	1.54
1	cE	145	TYR	CA-CB	7.07	1.64	1.53
1	d5	55	MET	C-N	7.07	1.42	1.33
1	fY	9	GLN	CA-C	7.07	1.62	1.52
1	l	84	HIS	CA-CB	7.07	1.62	1.52
1	iU	54	THR	CA-C	7.07	1.62	1.52
1	jB	145	TYR	CA-CB	7.07	1.66	1.53
1	kL	176	GLN	CA-C	-7.07	1.43	1.52
1	kN	22	ALA	CA-C	-7.07	1.44	1.52
1	kT	120	HIS	ND1-CE1	7.07	1.39	1.32
1	25	220	GLY	N-CA	7.07	1.55	1.45
1	lj	110	THR	CA-C	7.07	1.63	1.53
1	2H	102	SER	N-CA	-7.07	1.36	1.46
1	38	146	SER	C-N	-7.07	1.27	1.33
1	3o	124	ILE	N-CA	7.07	1.53	1.46
1	3C	47	ALA	N-CA	-7.07	1.36	1.45
1	3D	98	GLU	CA-C	7.07	1.60	1.53
1	bg	229	ARG	NE-CZ	7.07	1.40	1.33
1	by	162	ARG	CD-NE	7.07	1.56	1.46
1	cn	82	ARG	CD-NE	7.07	1.56	1.46
1	ef	171	THR	N-CA	-7.07	1.36	1.46
1	fL	44	SER	N-CA	-7.07	1.37	1.46
1	fT	198	CYS	C-N	7.07	1.43	1.33
1	1A	136	LEU	N-CA	-7.07	1.37	1.46
1	q	192	GLN	C-N	7.07	1.43	1.33
1	J	194	ALA	N-CA	7.07	1.54	1.46
1	i3	164	TYR	CA-CB	7.06	1.64	1.53
1	lI	17	PRO	CA-CB	-7.06	1.44	1.53
1	6j	195	ASN	CA-C	7.06	1.61	1.53
1	6q	194	ALA	CA-CB	7.06	1.65	1.53
1	8y	173	ARG	CA-C	-7.06	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	12	70	LYS	CA-CB	7.06	1.64	1.53
1	bS	175	GLU	CA-C	-7.06	1.43	1.52
1	eT	124	ILE	CA-C	7.06	1.58	1.52
1	gk	1	PRO	N-CD	7.06	1.57	1.47
1	1Q	134	ILE	CA-C	7.06	1.62	1.52
1	iz	48	THR	CA-C	-7.06	1.43	1.53
1	kT	201	ILE	N-CA	-7.06	1.37	1.46
1	kU	12	HIS	CA-CB	7.06	1.63	1.53
1	lI	68	MET	C-N	7.06	1.43	1.33
1	lQ	32	PHE	C-N	7.06	1.43	1.33
1	4W	132	ARG	CD-NE	7.06	1.56	1.46
1	5U	177	ALA	N-CA	-7.06	1.37	1.46
1	6s	84	HIS	CA-C	7.06	1.60	1.52
1	6Y	184	TRP	CA-C	7.06	1.62	1.52
1	80	145	TYR	CA-C	7.06	1.61	1.52
1	8b	16	SER	C-N	-7.06	1.25	1.34
1	8O	50	GLN	C-N	7.06	1.43	1.33
1	96	77	ALA	CA-C	7.06	1.61	1.52
1	bl	203	LYS	CA-CB	7.06	1.64	1.53
1	bQ	37	ILE	CA-CB	-7.06	1.50	1.54
1	cf	175	GLU	CA-CB	7.06	1.64	1.53
1	t	41	SER	N-CA	-7.06	1.37	1.46
1	iP	199	LYS	N-CA	-7.06	1.37	1.46
1	3F	149	SER	N-CA	-7.06	1.40	1.46
1	77	80	TRP	CA-C	7.06	1.62	1.52
1	fo	143	ARG	CA-CB	7.06	1.64	1.53
1	hE	72	THR	N-CA	7.06	1.54	1.46
1	hT	12	HIS	CA-C	-7.06	1.44	1.52
1	hT	140	LYS	C-N	7.06	1.42	1.33
1	iO	12	HIS	ND1-CE1	7.06	1.39	1.32
1	1Z	115	ILE	N-CA	7.06	1.54	1.46
1	kE	194	ALA	CA-CB	7.06	1.65	1.53
1	ll	72	THR	C-N	7.06	1.42	1.33
1	lL	87	HIS	CE1-NE2	7.06	1.39	1.32
1	2b	221	VAL	C-N	7.06	1.40	1.32
1	2F	191	VAL	CA-C	7.06	1.61	1.52
1	3q	17	PRO	CA-CB	-7.06	1.44	1.53
1	3V	214	MET	CA-C	-7.06	1.43	1.52
1	63	15	ILE	C-O	-7.06	1.15	1.24
1	8n	146	SER	CA-CB	7.06	1.64	1.53
1	91	121	ASN	CA-C	7.06	1.60	1.52
1	b7	125	PRO	N-CA	-7.06	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cu	183	ASN	N-CA	-7.06	1.37	1.46
1	cy	145	TYR	CA-CB	7.06	1.64	1.53
1	dB	203	LYS	C-O	7.06	1.32	1.24
1	S	15	ILE	CA-CB	7.06	1.61	1.54
1	gM	2	ILE	C-N	7.06	1.43	1.33
1	hb	140	LYS	CA-C	7.06	1.62	1.52
1	hl	84	HIS	CE1-NE2	-7.06	1.25	1.32
1	hU	133	TRP	NE1-CE2	-7.06	1.29	1.37
1	hY	135	ILE	CA-C	7.06	1.61	1.52
1	iY	183	ASN	C-O	-7.06	1.16	1.24
1	j5	229	ARG	CD-NE	7.06	1.56	1.46
1	jL	7	GLN	N-CA	7.06	1.54	1.46
1	kf	58	THR	C-N	7.06	1.42	1.33
1	kk	22	ALA	CA-CB	7.06	1.64	1.53
1	ks	82	ARG	CA-CB	7.06	1.64	1.53
1	3u	149	SER	CA-CB	7.06	1.64	1.53
1	3w	177	ALA	C-N	7.06	1.42	1.33
1	48	22	ALA	CA-CB	7.06	1.64	1.53
1	5p	211	LEU	CA-C	7.06	1.62	1.52
1	88	100	ARG	NE-CZ	-7.06	1.25	1.33
1	9k	158	LYS	CA-CB	7.06	1.63	1.53
1	9M	80	TRP	NE1-CE2	-7.06	1.29	1.37
1	b0	196	PRO	CA-CB	-7.06	1.43	1.53
1	dS	81	ASP	C-N	7.06	1.43	1.34
1	eM	57	ASN	CA-CB	7.06	1.65	1.53
1	eY	111	LEU	C-O	-7.06	1.16	1.24
1	l	124	ILE	N-CA	7.06	1.55	1.46
1	gs	176	GLN	CA-C	-7.06	1.43	1.52
1	hh	168	PHE	CA-C	7.06	1.62	1.52
1	ib	213	GLU	CA-C	7.06	1.61	1.52
1	jI	138	LEU	CA-CB	7.06	1.65	1.53
1	lt	215	MET	CA-C	7.06	1.61	1.52
1	4a	126	VAL	N-CA	-7.06	1.38	1.46
1	ce	121	ASN	CA-C	7.06	1.58	1.52
1	dC	216	THR	CA-C	7.06	1.62	1.52
1	fB	84	HIS	ND1-CE1	7.06	1.39	1.32
1	hn	226	HIS	ND1-CE1	7.05	1.39	1.32
1	1L	153	ILE	C-O	-7.05	1.17	1.23
1	im	129	ILE	CA-CB	-7.05	1.46	1.54
1	im	134	ILE	CA-CB	7.05	1.63	1.54
1	jc	153	ILE	N-CA	7.05	1.54	1.46
1	jF	90	PRO	CA-C	7.05	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jY	178	SER	CA-C	-7.05	1.43	1.53
1	1Z	168	PHE	N-CA	-7.05	1.37	1.46
1	l1	163	ASP	CA-CB	7.05	1.64	1.53
1	lu	26	VAL	CA-C	7.05	1.61	1.52
1	3j	109	SER	CA-C	-7.05	1.44	1.52
1	3x	158	LYS	CA-C	-7.05	1.44	1.53
1	4b	92	GLU	CA-CB	7.05	1.62	1.53
1	4t	22	ALA	N-CA	-7.05	1.38	1.46
1	4C	141	ILE	N-CA	7.05	1.54	1.46
1	4Y	132	ARG	C-N	7.05	1.43	1.33
1	6d	191	VAL	CA-C	-7.05	1.45	1.53
1	6J	40	PHE	CA-CB	7.05	1.64	1.53
1	8i	14	ALA	C-N	-7.05	1.25	1.33
1	9U	1	PRO	C-N	7.05	1.42	1.33
1	9Y	59	VAL	CA-CB	-7.05	1.45	1.54
1	aF	226	HIS	CB-CG	7.05	1.60	1.50
1	aW	182	LYS	C-N	7.05	1.42	1.33
1	bi	28	GLU	N-CA	7.05	1.54	1.46
1	bt	91	ILE	CA-CB	-7.05	1.45	1.54
1	1h	226	HIS	ND1-CE1	7.05	1.39	1.32
1	dN	73	ILE	C-N	7.05	1.43	1.33
1	f1	12	HIS	ND1-CE1	7.05	1.39	1.32
1	fo	166	ASP	C-N	7.05	1.43	1.34
1	fJ	110	THR	CA-C	-7.05	1.43	1.53
1	hk	164	TYR	C-O	7.05	1.32	1.24
1	j9	143	ARG	CD-NE	7.05	1.56	1.46
1	k6	55	MET	CA-CB	7.05	1.64	1.53
1	29	62	HIS	CE1-NE2	7.05	1.39	1.32
1	2P	110	THR	C-N	7.05	1.42	1.33
1	2R	44	SER	N-CA	-7.05	1.37	1.46
1	4W	195	ASN	C-N	-7.05	1.25	1.34
1	6v	12	HIS	N-CA	-7.05	1.36	1.46
1	8S	98	GLU	CA-C	7.05	1.60	1.53
1	9w	159	GLU	C-N	-7.05	1.27	1.33
1	9A	220	GLY	N-CA	7.05	1.55	1.45
1	15	96	MET	CA-C	7.05	1.62	1.52
1	bY	143	ARG	C-N	7.05	1.44	1.33
1	eK	1	PRO	N-CD	7.05	1.57	1.47
1	gc	200	THR	CA-C	7.05	1.61	1.52
1	gl	195	ASN	CA-CB	7.05	1.63	1.53
1	gu	79	GLU	CA-C	7.05	1.62	1.52
1	i3	124	ILE	N-CA	-7.05	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iK	228	ALA	CA-C	7.05	1.61	1.52
1	1Z	13	GLN	CA-C	-7.05	1.44	1.52
1	lm	152	ASP	CA-C	7.05	1.62	1.52
1	lJ	12	HIS	ND1-CE1	7.05	1.39	1.32
1	lM	229	ARG	CD-NE	7.05	1.56	1.46
1	4L	163	ASP	N-CA	-7.05	1.38	1.46
1	6e	84	HIS	ND1-CE1	7.05	1.39	1.32
1	7h	144	MET	CA-C	-7.05	1.43	1.52
1	7i	37	ILE	CA-CB	7.05	1.58	1.54
1	81	103	ASP	C-N	7.05	1.42	1.33
1	8M	78	ALA	C-N	-7.05	1.24	1.33
1	8N	214	MET	C-N	7.05	1.42	1.33
1	96	18	ARG	C-N	7.05	1.42	1.33
1	9m	174	ALA	CA-C	7.05	1.62	1.52
1	cr	179	GLN	CA-CB	7.05	1.64	1.53
1	1k	209	ALA	C-N	7.05	1.43	1.33
1	eC	62	HIS	N-CA	-7.05	1.37	1.46
1	eI	154	ARG	CA-C	-7.05	1.43	1.52
1	f1	118	MET	N-CA	-7.05	1.37	1.46
1	f6	220	GLY	C-N	7.05	1.41	1.33
1	fA	56	LEU	CA-C	7.05	1.62	1.52
1	4	152	ASP	CA-C	-7.05	1.43	1.52
1	U	154	ARG	C-N	7.05	1.42	1.33
1	gn	195	ASN	CA-C	7.05	1.61	1.52
1	gp	98	GLU	CA-CB	7.05	1.64	1.53
1	gy	2	ILE	C-N	7.05	1.41	1.33
1	ht	33	SER	N-CA	7.05	1.56	1.46
1	hD	199	LYS	CA-CB	7.05	1.64	1.53
1	hM	33	SER	CA-C	7.05	1.58	1.52
1	ip	9	GLN	N-CA	-7.05	1.37	1.46
1	25	128	GLU	C-N	7.05	1.42	1.33
1	lb	129	ILE	CA-C	7.05	1.61	1.52
1	lg	40	PHE	CA-CB	7.05	1.65	1.53
1	lw	84	HIS	ND1-CE1	7.05	1.39	1.32
1	32	68	MET	CA-CB	7.05	1.64	1.53
1	3b	191	VAL	N-CA	-7.05	1.37	1.46
1	56	106	GLY	C-N	-7.05	1.25	1.33
1	6a	75	GLU	CA-CB	7.05	1.64	1.53
1	6F	188	THR	CA-C	-7.05	1.48	1.52
1	7v	118	MET	CA-C	7.05	1.62	1.52
1	99	86	VAL	CA-C	-7.05	1.44	1.52
1	ar	20	LEU	CA-CB	7.05	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b8	59	VAL	N-CA	7.05	1.55	1.46
1	1c	211	LEU	C-N	7.05	1.42	1.33
1	c6	21	ASN	CA-C	-7.05	1.43	1.52
1	dE	169	TYR	C-N	7.05	1.43	1.33
1	1m	21	ASN	C-N	-7.05	1.25	1.33
1	ff	209	ALA	N-CA	-7.05	1.37	1.45
1	c	191	VAL	CA-C	7.05	1.61	1.52
1	s	101	GLY	N-CA	7.05	1.55	1.45
1	he	84	HIS	C-N	7.05	1.43	1.33
1	iB	42	ALA	CA-C	7.05	1.61	1.52
1	k2	110	THR	C-N	7.05	1.42	1.33
1	kC	205	LEU	CA-C	7.05	1.61	1.52
1	24	189	LEU	C-N	7.05	1.42	1.33
1	lx	183	ASN	CA-C	-7.05	1.43	1.52
1	lz	154	ARG	CD-NE	7.05	1.56	1.46
1	2Y	12	HIS	ND1-CE1	7.05	1.39	1.32
1	3a	133	TRP	CA-CB	7.05	1.65	1.53
1	3w	143	ARG	CD-NE	7.05	1.56	1.46
1	7Y	125	PRO	CA-C	7.05	1.59	1.53
1	d6	157	PRO	CA-C	-7.05	1.43	1.52
1	dk	149	SER	CA-CB	7.05	1.62	1.53
1	q	167	ARG	C-O	-7.05	1.16	1.24
1	hQ	32	PHE	N-CA	-7.05	1.37	1.46
1	jp	177	ALA	CA-C	7.05	1.61	1.52
1	jv	12	HIS	CA-C	-7.05	1.44	1.52
1	jZ	26	VAL	CA-CB	7.05	1.64	1.54
1	ky	197	ASP	CA-C	-7.05	1.43	1.52
1	lc	83	LEU	C-N	7.05	1.42	1.33
1	lw	118	MET	CA-C	7.05	1.62	1.52
1	lE	203	LYS	CA-C	7.05	1.62	1.52
1	4o	18	ARG	C-N	7.05	1.42	1.33
1	4L	12	HIS	ND1-CE1	7.05	1.39	1.32
1	5E	123	PRO	CA-C	-7.05	1.43	1.52
1	5I	24	VAL	C-N	7.05	1.43	1.33
1	6p	216	THR	N-CA	-7.05	1.37	1.46
1	70	119	THR	C-N	7.05	1.42	1.33
1	7f	154	ARG	CD-NE	7.05	1.56	1.46
1	7Z	147	PRO	C-N	7.05	1.42	1.33
1	8v	141	ILE	CA-CB	-7.05	1.45	1.54
1	8I	130	TYR	CA-CB	7.05	1.64	1.53
1	9o	105	ALA	CA-C	7.05	1.63	1.52
1	9Q	33	SER	C-O	-7.05	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aL	128	GLU	CA-C	-7.05	1.43	1.52
1	b4	82	ARG	NE-CZ	-7.05	1.25	1.33
1	bx	11	VAL	C-N	7.05	1.43	1.33
1	c7	69	LEU	C-N	7.05	1.42	1.33
1	g4	229	ARG	NE-CZ	-7.05	1.25	1.33
1	M	99	PRO	CA-CB	7.05	1.63	1.53
1	hX	141	ILE	C-N	7.04	1.42	1.33
1	1P	229	ARG	CD-NE	7.04	1.56	1.46
1	lE	88	ALA	CA-CB	7.04	1.63	1.53
1	9I	96	MET	C-N	7.04	1.42	1.33
1	bU	21	ASN	CA-CB	7.04	1.64	1.53
1	hb	85	PRO	CA-C	7.04	1.60	1.52
1	hE	44	SER	CA-CB	7.04	1.63	1.53
1	hP	230	VAL	CA-C	-7.04	1.45	1.53
1	km	197	ASP	N-CA	-7.04	1.38	1.46
1	lA	27	VAL	N-CA	7.04	1.54	1.46
1	32	66	MET	N-CA	7.04	1.54	1.46
1	5Z	84	HIS	CE1-NE2	7.04	1.39	1.32
1	6d	186	THR	C-N	7.04	1.43	1.33
1	Z	132	ARG	CD-NE	7.04	1.56	1.46
1	a9	70	LYS	CA-C	7.04	1.62	1.52
1	ab	217	ALA	C-N	7.04	1.43	1.33
1	b0	87	HIS	CD2-NE2	7.04	1.45	1.37
1	cz	136	LEU	CA-C	7.04	1.62	1.52
1	cL	219	GLN	CA-CB	7.04	1.64	1.53
1	cV	126	VAL	CA-CB	-7.04	1.44	1.54
1	fv	120	HIS	CA-CB	7.04	1.64	1.53
1	g	124	ILE	CA-CB	7.04	1.63	1.54
1	Q	145	TYR	CA-CB	7.04	1.64	1.53
1	gm	212	GLU	CA-C	7.04	1.61	1.52
1	jt	71	GLU	CA-C	-7.04	1.43	1.52
1	lq	96	MET	CA-CB	7.04	1.63	1.53
1	lF	162	ARG	CD-NE	7.04	1.56	1.46
1	2x	213	GLU	CA-C	7.04	1.61	1.52
1	3b	84	HIS	C-N	-7.04	1.24	1.33
1	3K	182	LYS	CA-C	-7.04	1.43	1.52
1	6m	50	GLN	CA-C	7.04	1.61	1.52
1	8u	117	TRP	NE1-CE2	-7.04	1.29	1.37
1	9R	226	HIS	CA-C	7.04	1.62	1.52
1	aI	3	VAL	CA-C	7.04	1.60	1.52
1	cq	197	ASP	CA-CB	7.04	1.64	1.53
1	d9	40	PHE	C-N	7.04	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	df	59	VAL	CA-C	-7.04	1.45	1.53
1	dD	107	THR	CA-C	-7.04	1.45	1.53
1	eP	81	ASP	N-CA	-7.04	1.37	1.46
1	fc	19	THR	C-O	-7.04	1.16	1.24
1	fh	12	HIS	ND1-CE1	7.04	1.39	1.32
1	g7	198	CYS	CA-C	-7.04	1.44	1.52
1	hD	70	LYS	CA-CB	7.04	1.64	1.53
1	lh	153	ILE	CA-CB	7.04	1.61	1.54
1	lr	184	TRP	C-N	7.04	1.43	1.33
1	5K	114	GLN	C-O	-7.04	1.15	1.24
1	7v	78	ALA	CA-C	7.04	1.62	1.52
1	b8	116	GLY	CA-C	-7.04	1.44	1.52
1	bH	127	GLY	CA-C	-7.04	1.44	1.52
1	bT	12	HIS	CG-ND1	7.04	1.46	1.38
1	dK	47	ALA	N-CA	-7.04	1.37	1.46
1	eB	213	GLU	C-N	7.04	1.43	1.33
1	fm	47	ALA	N-CA	-7.04	1.36	1.46
1	fL	37	ILE	CA-C	7.04	1.58	1.52
1	fN	97	ARG	CD-NE	7.04	1.56	1.46
1	fY	133	TRP	CA-CB	7.04	1.64	1.53
1	hu	11	VAL	C-O	-7.04	1.16	1.24
1	hD	119	THR	CA-C	-7.04	1.46	1.53
1	jh	12	HIS	CE1-NE2	-7.04	1.25	1.32
1	jm	182	LYS	C-N	7.04	1.43	1.33
1	kr	124	ILE	N-CA	-7.04	1.41	1.46
1	kM	154	ARG	CD-NE	7.04	1.56	1.46
1	kP	9	GLN	N-CA	-7.04	1.36	1.46
1	lv	37	ILE	C-O	-7.04	1.18	1.24
1	5Z	53	ASN	N-CA	-7.04	1.38	1.46
1	62	87	HIS	CE1-NE2	7.04	1.39	1.32
1	6S	211	LEU	N-CA	-7.04	1.37	1.46
1	79	70	LYS	C-N	7.04	1.43	1.33
1	8t	40	PHE	N-CA	7.04	1.54	1.46
1	8M	143	ARG	CD-NE	7.04	1.56	1.46
1	Y	206	GLY	N-CA	7.04	1.54	1.44
1	9W	218	CYS	N-CA	7.04	1.55	1.46
1	ad	18	ARG	CZ-NH1	-7.04	1.22	1.32
1	15	172	LEU	CA-C	7.04	1.62	1.52
1	18	212	GLU	CA-C	7.04	1.62	1.52
1	bA	110	THR	CA-C	-7.04	1.43	1.52
1	c7	59	VAL	CA-C	-7.04	1.44	1.52
1	c8	63	GLN	CA-CB	7.04	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dI	11	VAL	CA-C	-7.04	1.45	1.52
1	eM	24	VAL	CA-CB	-7.04	1.45	1.54
1	fk	189	LEU	C-N	7.04	1.42	1.33
1	fT	184	TRP	NE1-CE2	-7.04	1.29	1.37
1	g3	126	VAL	N-CA	7.04	1.54	1.46
1	i8	75	GLU	N-CA	7.04	1.54	1.46
1	j8	82	ARG	CA-CB	7.04	1.64	1.53
1	ke	176	GLN	N-CA	-7.04	1.37	1.46
1	21	92	GLU	CA-C	7.04	1.60	1.53
1	6I	17	PRO	CA-CB	7.04	1.63	1.53
1	8f	216	THR	N-CA	7.04	1.55	1.46
1	93	37	ILE	C-N	-7.04	1.25	1.34
1	aI	191	VAL	CA-C	-7.04	1.43	1.52
1	cT	111	LEU	CA-C	7.04	1.62	1.52
1	1B	80	TRP	NE1-CE2	7.04	1.45	1.37
1	gf	120	HIS	ND1-CE1	7.04	1.39	1.32
1	hy	78	ALA	CA-C	7.04	1.61	1.52
1	hO	5	ASN	CA-CB	7.04	1.64	1.53
1	i3	33	SER	CA-CB	7.04	1.63	1.53
1	1N	159	GLU	CA-C	7.04	1.60	1.52
1	j7	13	GLN	CA-C	-7.04	1.44	1.52
1	jT	84	HIS	C-N	-7.04	1.26	1.33
1	21	75	GLU	CA-C	-7.04	1.44	1.52
1	25	97	ARG	CA-C	7.04	1.62	1.52
1	4L	84	HIS	CE1-NE2	-7.04	1.25	1.32
1	5x	24	VAL	C-N	7.04	1.42	1.33
1	6O	196	PRO	N-CA	7.04	1.56	1.47
1	71	113	GLU	N-CA	-7.04	1.38	1.46
1	7J	126	VAL	CA-CB	-7.04	1.46	1.54
1	7O	226	HIS	ND1-CE1	7.04	1.39	1.32
1	7U	125	PRO	CA-CB	7.04	1.57	1.53
1	8I	62	HIS	CA-C	7.04	1.62	1.53
1	8U	134	ILE	CA-CB	7.04	1.62	1.54
1	9c	10	MET	CA-CB	7.04	1.63	1.53
1	cq	145	TYR	CA-CB	7.04	1.64	1.53
1	d6	120	HIS	CG-ND1	-7.04	1.30	1.38
1	o	188	THR	N-CA	7.04	1.53	1.46
1	u	164	TYR	CA-CB	7.04	1.64	1.53
1	hy	117	TRP	C-N	7.03	1.43	1.33
1	i8	129	ILE	N-CA	-7.03	1.38	1.46
1	lh	184	TRP	CA-CB	7.03	1.65	1.53
1	ll	96	MET	C-N	-7.03	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2n	189	LEU	N-CA	7.03	1.54	1.46
1	2x	120	HIS	CB-CG	7.03	1.59	1.50
1	2y	141	ILE	CA-CB	7.03	1.63	1.54
1	2X	182	LYS	CA-C	-7.03	1.43	1.52
1	38	75	GLU	C-N	7.03	1.43	1.33
1	4I	146	SER	CA-C	-7.03	1.45	1.53
1	52	191	VAL	N-CA	7.03	1.54	1.46
1	54	171	THR	CA-C	7.03	1.61	1.52
1	5b	129	ILE	CA-CB	-7.03	1.46	1.54
1	5x	214	MET	CA-C	-7.03	1.43	1.52
1	5P	28	GLU	CA-CB	7.03	1.64	1.53
1	5R	95	GLN	C-N	-7.03	1.24	1.33
1	68	195	ASN	CA-CB	7.03	1.63	1.53
1	6i	226	HIS	CB-CG	7.03	1.59	1.50
1	6Y	169	TYR	C-O	-7.03	1.15	1.24
1	7m	120	HIS	ND1-CE1	7.03	1.39	1.32
1	8o	167	ARG	CA-C	-7.03	1.43	1.52
1	a5	44	SER	CA-CB	7.03	1.64	1.53
1	bq	40	PHE	N-CA	-7.03	1.37	1.46
1	bR	1	PRO	N-CD	7.03	1.57	1.47
1	bS	73	ILE	CA-CB	7.03	1.62	1.54
1	dM	65	ALA	N-CA	-7.03	1.37	1.46
1	eE	139	ASN	CA-C	7.03	1.61	1.52
1	1	120	HIS	ND1-CE1	7.03	1.39	1.32
1	gg	70	LYS	CA-CB	7.03	1.64	1.53
1	hk	91	ILE	C-N	7.03	1.43	1.33
1	j3	84	HIS	ND1-CE1	7.03	1.39	1.32
1	54	14	ALA	N-CA	-7.03	1.37	1.45
1	5K	114	GLN	CA-CB	7.03	1.64	1.53
1	5Y	227	LYS	C-N	7.03	1.42	1.33
1	67	173	ARG	CD-NE	7.03	1.56	1.46
1	7D	76	GLU	N-CA	-7.03	1.37	1.46
1	b0	154	ARG	NE-CZ	7.03	1.40	1.33
1	cv	169	TYR	N-CA	-7.03	1.37	1.46
1	cx	203	LYS	C-N	7.03	1.42	1.33
1	e4	50	GLN	CA-C	7.03	1.61	1.52
1	ft	120	HIS	ND1-CE1	7.03	1.39	1.32
1	fG	164	TYR	CA-C	7.03	1.61	1.52
1	gb	35	GLU	CA-C	7.03	1.62	1.52
1	gY	57	ASN	N-CA	7.03	1.55	1.46
1	hc	22	ALA	CA-C	-7.03	1.44	1.52
1	hp	168	PHE	CA-CB	7.03	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iu	5	ASN	CA-CB	7.03	1.61	1.53
1	1R	201	ILE	CA-CB	-7.03	1.45	1.54
1	kw	124	ILE	CA-C	7.03	1.58	1.53
1	kD	84	HIS	ND1-CE1	7.03	1.39	1.32
1	3L	6	LEU	CA-C	-7.03	1.43	1.52
1	4U	62	HIS	CG-ND1	7.03	1.46	1.38
1	8e	170	LYS	CA-C	7.03	1.62	1.52
1	9H	87	HIS	CG-CD2	-7.03	1.28	1.35
1	a2	121	ASN	CA-CB	7.03	1.64	1.53
1	ar	211	LEU	CA-C	7.03	1.62	1.52
1	bT	166	ASP	CA-CB	7.03	1.64	1.53
1	cf	223	GLY	C-N	-7.03	1.27	1.33
1	cT	3	VAL	CA-C	-7.03	1.44	1.52
1	1k	26	VAL	CA-CB	7.03	1.63	1.54
1	1p	213	GLU	CA-C	7.03	1.61	1.52
1	eJ	120	HIS	ND1-CE1	7.03	1.39	1.32
1	eU	109	SER	CA-C	7.03	1.61	1.52
1	n	26	VAL	C-N	7.03	1.42	1.34
1	gH	121	ASN	CA-C	-7.03	1.47	1.52
1	gM	161	PHE	CA-C	7.03	1.62	1.52
1	kr	4	GLN	CA-CB	7.03	1.63	1.53
1	kF	111	LEU	C-N	7.03	1.42	1.33
1	lB	96	MET	CA-CB	7.03	1.65	1.53
1	4i	87	HIS	CG-ND1	-7.03	1.30	1.38
1	8k	168	PHE	N-CA	7.03	1.54	1.46
1	91	24	VAL	CA-C	-7.03	1.44	1.52
1	c1	156	GLY	CA-C	-7.03	1.41	1.51
1	ca	157	PRO	CA-CB	7.03	1.64	1.53
1	ck	97	ARG	CD-NE	7.03	1.56	1.46
1	eT	169	TYR	CA-CB	7.03	1.65	1.53
1	gM	93	PRO	CA-CB	7.03	1.62	1.53
1	h0	12	HIS	C-N	7.03	1.43	1.33
1	hH	130	TYR	N-CA	7.03	1.55	1.46
1	iT	137	GLY	CA-C	-7.03	1.44	1.52
1	kv	108	THR	N-CA	-7.03	1.37	1.46
1	l1	195	ASN	CA-CB	7.03	1.64	1.53
1	2f	178	SER	C-N	7.03	1.43	1.34
1	3c	104	ILE	CA-C	7.03	1.61	1.52
1	4M	198	CYS	CA-C	-7.03	1.44	1.52
1	aB	3	VAL	C-N	7.03	1.43	1.33
1	bk	121	ASN	CA-C	7.03	1.60	1.52
1	bp	210	THR	N-CA	7.03	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c9	68	MET	CA-CB	7.03	1.64	1.53
1	ec	57	ASN	N-CA	-7.03	1.36	1.46
1	eM	79	GLU	N-CA	-7.03	1.37	1.46
1	1t	126	VAL	N-CA	-7.03	1.38	1.46
1	eT	197	ASP	CA-C	7.03	1.62	1.52
1	f4	185	MET	CA-CB	7.03	1.64	1.53
1	g	154	ARG	CA-C	7.03	1.61	1.52
1	o	170	LYS	N-CA	-7.03	1.37	1.46
1	E	85	PRO	CA-C	-7.03	1.47	1.53
1	M	97	ARG	C-N	7.03	1.45	1.33
1	5	7	GLN	CA-C	7.03	1.61	1.52
1	gf	137	GLY	CA-C	7.03	1.60	1.52
1	js	75	GLU	CA-C	7.03	1.61	1.52
1	jG	197	ASP	CA-C	7.03	1.61	1.52
1	ks	135	ILE	CA-C	-7.03	1.43	1.52
1	kt	210	THR	CA-C	7.03	1.61	1.52
1	lv	7	GLN	CA-C	-7.03	1.44	1.53
1	3d	85	PRO	C-N	7.03	1.42	1.33
1	6g	96	MET	CA-C	7.03	1.62	1.52
1	9B	163	ASP	CA-CB	7.03	1.64	1.53
1	15	221	VAL	C-N	7.03	1.43	1.33
1	d8	19	THR	C-N	7.03	1.42	1.33
1	dT	89	GLY	CA-C	7.03	1.61	1.51
1	er	179	GLN	N-CA	-7.03	1.37	1.46
1	eL	132	ARG	N-CA	-7.03	1.37	1.46
1	eQ	190	LEU	N-CA	7.03	1.55	1.46
1	g5	71	GLU	CA-C	-7.03	1.43	1.52
1	0	85	PRO	CA-C	-7.03	1.47	1.53
1	gb	139	ASN	CA-C	7.02	1.61	1.52
1	j4	15	ILE	CA-CB	-7.02	1.47	1.54
1	jk	121	ASN	CA-C	7.02	1.60	1.52
1	kc	43	LEU	CA-CB	7.02	1.64	1.53
1	2q	97	ARG	CA-C	-7.02	1.44	1.52
1	2A	228	ALA	CA-C	7.02	1.61	1.52
1	2I	33	SER	CA-C	7.02	1.59	1.52
1	3v	31	ALA	CA-CB	7.02	1.65	1.53
1	3U	170	LYS	CA-CB	7.02	1.64	1.53
1	42	45	GLU	N-CA	7.02	1.55	1.46
1	7m	82	ARG	N-CA	-7.02	1.38	1.46
1	8H	190	LEU	C-N	7.02	1.41	1.34
1	al	177	ALA	CA-C	-7.02	1.44	1.52
1	aA	25	LYS	CA-C	7.02	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bt	3	VAL	CA-C	-7.02	1.44	1.52
1	dU	52	LEU	CA-CB	7.02	1.64	1.53
1	fi	8	GLY	N-CA	7.02	1.53	1.45
1	h7	103	ASP	C-N	7.02	1.42	1.33
1	hF	133	TRP	NE1-CE2	-7.02	1.29	1.37
1	iI	103	ASP	C-N	7.02	1.42	1.33
1	k6	187	GLU	C-O	-7.02	1.16	1.24
1	k8	95	GLN	CA-CB	7.02	1.63	1.53
1	kd	39	MET	C-N	7.02	1.43	1.33
1	ko	173	ARG	CA-C	7.02	1.61	1.52
1	kt	184	TRP	CA-C	7.02	1.61	1.52
1	lB	139	ASN	CA-C	-7.02	1.43	1.52
1	37	17	PRO	C-O	-7.02	1.16	1.23
1	3s	199	LYS	CA-CB	7.02	1.64	1.53
1	52	155	GLN	CA-C	7.02	1.61	1.52
1	6l	79	GLU	CA-C	-7.02	1.43	1.52
1	7s	125	PRO	CA-C	7.02	1.60	1.53
1	7N	10	MET	N-CA	-7.02	1.37	1.46
1	8y	118	MET	CA-C	7.02	1.61	1.52
1	8U	93	PRO	CA-C	7.02	1.62	1.52
1	9m	16	SER	CA-C	7.02	1.60	1.52
1	9z	72	THR	CA-C	-7.02	1.43	1.52
1	ab	37	ILE	CA-C	7.02	1.58	1.52
1	aP	67	GLN	N-CA	7.02	1.54	1.46
1	bn	195	ASN	CA-C	7.02	1.60	1.53
1	cM	42	ALA	N-CA	7.02	1.54	1.46
1	fj	36	VAL	CA-CB	7.02	1.63	1.54
1	fm	12	HIS	ND1-CE1	7.02	1.39	1.32
1	fE	229	ARG	CA-CB	7.02	1.64	1.54
1	fR	87	HIS	ND1-CE1	7.02	1.39	1.32
1	F	169	TYR	CA-C	7.02	1.62	1.52
1	g8	106	GLY	CA-C	-7.02	1.41	1.51
1	go	87	HIS	CD2-NE2	7.02	1.45	1.37
1	i9	9	GLN	CA-C	7.02	1.61	1.52
1	jV	46	GLY	CA-C	-7.02	1.41	1.51
1	ly	67	GLN	CA-C	-7.02	1.44	1.52
1	2h	66	MET	C-O	-7.02	1.16	1.24
1	4K	197	ASP	N-CA	-7.02	1.36	1.46
1	58	169	TYR	N-CA	7.02	1.55	1.46
1	6O	166	ASP	CA-CB	7.02	1.64	1.53
1	7H	11	VAL	CA-C	7.02	1.61	1.52
1	9E	99	PRO	CA-CB	-7.02	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9T	168	PHE	C-N	7.02	1.43	1.33
1	at	53	ASN	CA-C	-7.02	1.44	1.52
1	cC	24	VAL	N-CA	-7.02	1.38	1.46
1	et	82	ARG	N-CA	-7.02	1.37	1.46
1	eM	84	HIS	ND1-CE1	7.02	1.39	1.32
1	eM	199	LYS	N-CA	7.02	1.54	1.46
1	fv	23	TRP	C-O	-7.02	1.15	1.24
1	g9	84	HIS	CG-CD2	7.02	1.43	1.35
1	hH	26	VAL	N-CA	-7.02	1.38	1.46
1	i5	77	ALA	C-N	7.02	1.43	1.33
1	j3	182	LYS	CA-CB	7.02	1.64	1.53
1	kb	64	ALA	C-N	7.02	1.43	1.33
1	lH	48	THR	C-O	-7.02	1.16	1.23
1	2a	192	GLN	CA-C	7.02	1.61	1.52
1	lR	39	MET	C-N	7.02	1.43	1.33
1	3z	173	ARG	CD-NE	7.02	1.56	1.46
1	42	146	SER	CA-CB	7.02	1.64	1.53
1	4D	62	HIS	CE1-NE2	7.02	1.39	1.32
1	5f	115	ILE	C-O	-7.02	1.16	1.24
1	6b	96	MET	CA-C	-7.02	1.44	1.52
1	6y	206	GLY	C-N	7.02	1.41	1.34
1	7P	24	VAL	CA-CB	-7.02	1.46	1.54
1	8Z	209	ALA	N-CA	-7.02	1.37	1.46
1	a2	108	THR	CA-CB	-7.02	1.42	1.53
1	cr	120	HIS	CE1-NE2	-7.02	1.25	1.32
1	dd	9	GLN	CA-C	7.02	1.60	1.52
1	dm	165	VAL	CA-CB	-7.02	1.45	1.54
1	1k	184	TRP	CA-CB	7.02	1.64	1.53
1	eo	53	ASN	CA-C	-7.02	1.43	1.52
1	1y	92	GLU	CA-C	7.02	1.60	1.53
1	fH	221	VAL	CA-CB	-7.02	1.45	1.54
1	iC	62	HIS	CG-ND1	-7.02	1.30	1.38
1	iQ	41	SER	CA-CB	7.02	1.64	1.53
1	jW	40	PHE	CA-C	-7.02	1.44	1.52
1	k0	141	ILE	N-CA	7.02	1.54	1.46
1	kg	156	GLY	CA-C	7.02	1.61	1.51
1	3B	198	CYS	C-N	7.02	1.43	1.33
1	4r	155	GLN	CA-C	-7.02	1.44	1.52
1	4J	126	VAL	CA-CB	-7.02	1.46	1.54
1	6L	170	LYS	CA-C	7.02	1.61	1.52
1	8S	202	LEU	CA-C	7.02	1.61	1.52
1	ae	23	TRP	CA-C	7.02	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aT	34	PRO	CA-C	7.02	1.59	1.52
1	bK	92	GLU	C-N	7.02	1.41	1.33
1	c3	20	LEU	C-N	7.02	1.42	1.33
1	1f	158	LYS	CA-C	-7.02	1.43	1.52
1	cI	108	THR	N-CA	7.02	1.54	1.46
1	d0	78	ALA	CA-CB	7.02	1.64	1.53
1	eO	104	ILE	CA-C	-7.02	1.44	1.52
1	1t	59	VAL	N-CA	7.02	1.54	1.46
1	f7	87	HIS	ND1-CE1	7.02	1.39	1.32
1	fp	37	ILE	CA-CB	7.02	1.57	1.54
1	fK	59	VAL	CA-CB	-7.02	1.46	1.53
1	T	49	PRO	CA-CB	7.02	1.63	1.53
1	gJ	101	GLY	N-CA	7.02	1.55	1.45
1	iT	38	PRO	N-CD	-7.02	1.38	1.47
1	1V	219	GLN	N-CA	7.02	1.54	1.46
1	kz	4	GLN	CA-C	7.02	1.62	1.52
1	ln	173	ARG	N-CA	-7.02	1.37	1.46
1	lH	214	MET	C-O	-7.02	1.16	1.24
1	lM	87	HIS	C-N	7.02	1.42	1.33
1	7H	86	VAL	CA-CB	7.02	1.62	1.54
1	8A	2	ILE	N-CA	-7.02	1.38	1.46
1	9j	100	ARG	C-O	7.02	1.32	1.23
1	9Q	96	MET	CA-C	-7.02	1.44	1.52
1	a3	182	LYS	N-CA	-7.02	1.37	1.46
1	e	182	LYS	CA-CB	7.02	1.64	1.53
1	iP	155	GLN	N-CA	-7.01	1.37	1.46
1	jz	217	ALA	N-CA	-7.01	1.37	1.46
1	jW	65	ALA	C-N	7.01	1.43	1.33
1	kR	152	ASP	CA-CB	7.01	1.63	1.53
1	lc	70	LYS	C-N	7.01	1.42	1.33
1	2k	37	ILE	C-O	-7.01	1.18	1.24
1	2D	216	THR	N-CA	7.01	1.55	1.46
1	2Y	90	PRO	CA-C	7.01	1.60	1.53
1	35	1	PRO	C-N	7.01	1.42	1.33
1	3R	164	TYR	CA-C	7.01	1.61	1.52
1	4N	1	PRO	N-CD	7.01	1.57	1.47
1	64	1	PRO	N-CD	7.01	1.57	1.47
1	6x	12	HIS	CD2-NE2	7.01	1.45	1.37
1	7y	28	GLU	CA-CB	7.01	1.64	1.53
1	9B	37	ILE	CA-CB	7.01	1.58	1.54
1	ah	85	PRO	CA-C	7.01	1.60	1.52
1	bn	181	VAL	CA-CB	7.01	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bZ	132	ARG	CD-NE	7.01	1.56	1.46
1	cY	143	ARG	CA-C	7.01	1.61	1.52
1	dJ	120	HIS	ND1-CE1	7.01	1.39	1.32
1	fr	149	SER	N-CA	7.01	1.55	1.46
1	gB	2	ILE	CA-CB	7.01	1.63	1.54
1	iN	41	SER	CA-CB	7.01	1.64	1.53
1	jw	99	PRO	CA-C	7.01	1.60	1.52
1	kk	24	VAL	CA-CB	-7.01	1.45	1.54
1	kT	196	PRO	N-CA	7.01	1.56	1.47
1	3g	223	GLY	CA-C	7.01	1.61	1.51
1	46	35	GLU	N-CA	-7.01	1.37	1.46
1	6g	226	HIS	ND1-CE1	7.01	1.39	1.32
1	7n	28	GLU	CA-C	7.01	1.61	1.52
1	7R	168	PHE	CA-C	7.01	1.61	1.52
1	9n	229	ARG	N-CA	7.01	1.54	1.46
1	9w	83	LEU	CA-CB	7.01	1.64	1.53
1	bN	167	ARG	N-CA	-7.01	1.37	1.46
1	c2	98	GLU	CA-C	7.01	1.61	1.53
1	cC	143	ARG	C-N	7.01	1.42	1.33
1	dX	173	ARG	C-N	7.01	1.43	1.33
1	1p	112	GLN	C-N	7.01	1.43	1.33
1	f5	149	SER	C-N	7.01	1.41	1.34
1	fe	62	HIS	CA-C	-7.01	1.44	1.53
1	fB	67	GLN	CA-C	-7.01	1.43	1.52
1	gm	148	THR	CA-C	-7.01	1.44	1.52
1	hu	206	GLY	CA-C	7.01	1.61	1.51
1	hv	93	PRO	CA-CB	7.01	1.63	1.53
1	iJ	161	PHE	CA-CB	7.01	1.64	1.53
1	iN	76	GLU	N-CA	-7.01	1.37	1.46
1	j2	97	ARG	NE-CZ	7.01	1.40	1.33
1	jH	206	GLY	CA-C	-7.01	1.41	1.51
1	kx	14	ALA	CA-C	-7.01	1.43	1.52
1	kN	115	ILE	CA-CB	-7.01	1.46	1.54
1	lC	14	ALA	CA-C	7.01	1.62	1.53
1	lF	29	GLU	C-N	7.01	1.43	1.33
1	3n	143	ARG	CA-C	-7.01	1.44	1.52
1	45	78	ALA	C-N	7.01	1.43	1.33
1	57	179	GLN	C-N	7.01	1.43	1.33
1	5T	201	ILE	C-N	7.01	1.42	1.33
1	6A	226	HIS	CB-CG	7.01	1.59	1.50
1	7p	3	VAL	CA-C	-7.01	1.44	1.52
1	82	87	HIS	CA-C	-7.01	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8I	99	PRO	CA-CB	7.01	1.62	1.53
1	8S	87	HIS	ND1-CE1	7.01	1.39	1.32
1	94	98	GLU	C-N	7.01	1.42	1.33
1	ab	55	MET	C-N	7.01	1.42	1.33
1	ai	99	PRO	CA-C	7.01	1.59	1.52
1	aj	124	ILE	CA-C	7.01	1.58	1.53
1	d1	227	LYS	CA-C	-7.01	1.44	1.52
1	dF	129	ILE	C-N	7.01	1.42	1.33
1	fT	65	ALA	N-CA	-7.01	1.37	1.46
1	3	159	GLU	CA-C	7.01	1.61	1.52
1	gf	206	GLY	C-N	7.01	1.40	1.33
1	go	37	ILE	CA-C	7.01	1.59	1.52
1	gL	177	ALA	N-CA	7.01	1.55	1.45
1	1K	11	VAL	N-CA	-7.01	1.38	1.46
1	i8	70	LYS	CA-CB	7.01	1.64	1.53
1	iT	9	GLN	CA-C	7.01	1.62	1.53
1	j0	107	THR	C-N	7.01	1.42	1.33
1	k4	196	PRO	CA-C	-7.01	1.41	1.52
1	ky	224	PRO	CA-CB	7.01	1.63	1.53
1	kA	86	VAL	CA-C	7.01	1.61	1.52
1	lG	16	SER	CA-CB	7.01	1.64	1.53
1	3b	99	PRO	C-O	-7.01	1.18	1.24
1	3D	49	PRO	C-N	7.01	1.43	1.33
1	3Y	154	ARG	NE-CZ	-7.01	1.25	1.33
1	4I	102	SER	CA-C	-7.01	1.43	1.52
1	60	203	LYS	CA-CB	7.01	1.64	1.53
1	6H	224	PRO	CA-C	7.01	1.61	1.52
1	8N	103	ASP	N-CA	-7.01	1.38	1.46
1	9e	94	GLY	N-CA	7.01	1.55	1.45
1	Y	14	ALA	N-CA	7.01	1.54	1.46
1	a9	85	PRO	C-N	7.01	1.40	1.33
1	bc	178	SER	C-N	7.01	1.42	1.33
1	bA	33	SER	C-N	-7.01	1.25	1.34
1	cl	116	GLY	CA-C	-7.01	1.44	1.52
1	dE	192	GLN	N-CA	-7.01	1.37	1.46
1	dE	226	HIS	CD2-NE2	7.01	1.45	1.37
1	f0	84	HIS	CG-CD2	7.01	1.43	1.35
1	d	120	HIS	N-CA	7.01	1.54	1.45
1	D	87	HIS	CG-ND1	7.01	1.46	1.38
1	R	198	CYS	CA-CB	7.01	1.64	1.53
1	ht	62	HIS	CE1-NE2	7.01	1.39	1.32
1	hF	83	LEU	CA-C	7.01	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i4	210	THR	CA-CB	-7.01	1.42	1.53
1	iY	48	THR	CA-CB	7.01	1.63	1.53
1	25	91	ILE	N-CA	7.01	1.53	1.46
1	ll	31	ALA	N-CA	-7.01	1.37	1.46
1	31	35	GLU	CA-CB	7.01	1.65	1.53
1	9T	208	ALA	CA-C	-7.01	1.42	1.52
1	bG	204	ALA	C-N	7.01	1.42	1.33
1	dY	25	LYS	CA-CB	7.01	1.64	1.53
1	eW	95	GLN	CA-C	7.01	1.61	1.52
1	h4	75	GLU	C-N	7.01	1.43	1.33
1	he	55	MET	CA-C	7.01	1.61	1.52
1	jf	149	SER	CA-CB	7.01	1.65	1.53
1	k0	212	GLU	CA-CB	7.01	1.64	1.53
1	27	59	VAL	N-CA	7.01	1.54	1.46
1	6d	114	GLN	C-N	7.01	1.42	1.33
1	6C	141	ILE	N-CA	-7.01	1.38	1.46
1	76	87	HIS	ND1-CE1	7.01	1.39	1.32
1	8P	32	PHE	N-CA	-7.01	1.37	1.46
1	9v	124	ILE	CA-C	7.01	1.60	1.52
1	aa	147	PRO	CA-CB	7.01	1.62	1.53
1	11	31	ALA	CA-C	7.01	1.62	1.52
1	bf	167	ARG	CA-CB	7.01	1.64	1.53
1	bn	27	VAL	C-N	7.01	1.43	1.34
1	bz	171	THR	CA-C	-7.01	1.43	1.52
1	bT	77	ALA	C-N	7.01	1.42	1.33
1	bW	153	ILE	CA-C	7.01	1.61	1.52
1	bY	133	TRP	NE1-CE2	-7.01	1.29	1.37
1	c1	134	ILE	N-CA	-7.01	1.38	1.46
1	cZ	87	HIS	CA-C	7.01	1.62	1.53
1	dn	36	VAL	CA-CB	-7.01	1.45	1.54
1	dD	120	HIS	CG-CD2	7.01	1.43	1.35
1	fQ	229	ARG	CA-CB	7.01	1.65	1.53
1	H	124	ILE	CA-C	7.01	1.59	1.53
1	3G	82	ARG	CD-NE	7.00	1.56	1.46
1	44	133	TRP	CA-CB	7.00	1.64	1.53
1	4q	225	GLY	CA-C	-7.00	1.43	1.51
1	5K	201	ILE	N-CA	7.00	1.54	1.46
1	5M	15	ILE	N-CA	-7.00	1.37	1.46
1	9f	227	LYS	CA-C	7.00	1.61	1.52
1	bx	123	PRO	N-CA	-7.00	1.38	1.47
1	bJ	131	LYS	CA-CB	7.00	1.64	1.53
1	iW	125	PRO	CA-C	-7.00	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1U	117	TRP	CA-C	-7.00	1.43	1.52
1	2D	116	GLY	N-CA	7.00	1.54	1.45
1	3v	131	LYS	N-CA	-7.00	1.37	1.46
1	5v	226	HIS	N-CA	-7.00	1.37	1.46
1	9s	70	LYS	C-N	7.00	1.43	1.33
1	9s	171	THR	CA-C	-7.00	1.43	1.52
1	9I	156	GLY	N-CA	7.00	1.54	1.44
1	a9	212	GLU	CA-CB	7.00	1.64	1.53
1	aX	171	THR	N-CA	-7.00	1.37	1.46
1	cy	67	GLN	CA-C	7.00	1.61	1.52
1	d4	53	ASN	CA-CB	7.00	1.64	1.53
1	dD	128	GLU	N-CA	7.00	1.54	1.46
1	dO	220	GLY	N-CA	-7.00	1.34	1.45
1	em	202	LEU	C-N	7.00	1.43	1.33
1	1s	201	ILE	N-CA	7.00	1.54	1.46
1	fc	195	ASN	CA-CB	7.00	1.65	1.53
1	B	212	GLU	C-N	7.00	1.42	1.33
1	gy	2	ILE	C-O	7.00	1.31	1.24
1	hJ	12	HIS	ND1-CE1	7.00	1.39	1.32
1	hS	173	ARG	CA-CB	7.00	1.64	1.53
1	iw	74	ASN	CA-C	7.00	1.61	1.52
1	iR	168	PHE	CA-CB	7.00	1.64	1.53
1	jN	145	TYR	CA-C	-7.00	1.43	1.52
1	kK	186	THR	CA-C	-7.00	1.43	1.52
1	2W	28	GLU	CA-C	7.00	1.62	1.52
1	3V	77	ALA	N-CA	-7.00	1.37	1.46
1	4e	86	VAL	CA-CB	-7.00	1.45	1.54
1	4j	37	ILE	CA-C	-7.00	1.45	1.52
1	4G	173	ARG	CD-NE	7.00	1.56	1.46
1	5y	190	LEU	C-N	7.00	1.42	1.33
1	75	53	ASN	CA-CB	7.00	1.64	1.53
1	8m	186	THR	C-N	7.00	1.43	1.33
1	8R	229	ARG	C-N	-7.00	1.25	1.33
1	9O	153	ILE	N-CA	-7.00	1.37	1.46
1	a0	21	ASN	N-CA	-7.00	1.38	1.46
1	a5	219	GLN	C-N	7.00	1.43	1.33
1	aq	214	MET	CA-C	7.00	1.61	1.52
1	aC	96	MET	CA-CB	7.00	1.64	1.53
1	bd	75	GLU	CA-CB	7.00	1.64	1.53
1	c8	162	ARG	C-N	7.00	1.43	1.33
1	dh	146	SER	CA-C	7.00	1.60	1.52
1	dU	172	LEU	CA-C	-7.00	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eu	62	HIS	CE1-NE2	7.00	1.39	1.32
1	fN	76	GLU	CA-CB	7.00	1.64	1.53
1	S	51	ASP	N-CA	-7.00	1.37	1.46
1	S	207	PRO	CA-C	-7.00	1.45	1.52
1	gy	128	GLU	CA-CB	7.00	1.64	1.53
1	1K	220	GLY	C-N	7.00	1.42	1.34
1	hD	33	SER	N-CA	7.00	1.52	1.46
1	1Z	90	PRO	CA-C	7.00	1.61	1.52
1	kM	17	PRO	CA-C	-7.00	1.41	1.52
1	5T	47	ALA	CA-C	-7.00	1.43	1.52
1	6q	229	ARG	CA-C	7.00	1.62	1.53
1	7B	230	VAL	CA-C	7.00	1.61	1.52
1	bV	223	GLY	N-CA	7.00	1.54	1.44
1	1p	87	HIS	CD2-NE2	7.00	1.45	1.37
1	eG	37	ILE	CA-CB	-7.00	1.45	1.54
1	1x	155	GLN	CA-C	-7.00	1.44	1.53
1	fJ	27	VAL	CA-C	-7.00	1.44	1.52
1	K	62	HIS	CD2-NE2	7.00	1.45	1.37
1	gn	47	ALA	CA-C	7.00	1.61	1.52
1	i9	92	GLU	N-CA	7.00	1.53	1.45
1	i9	196	PRO	CA-C	7.00	1.62	1.52
1	jR	226	HIS	ND1-CE1	7.00	1.39	1.32
1	3l	8	GLY	CA-C	-7.00	1.42	1.51
1	4n	108	THR	CA-CB	-7.00	1.43	1.53
1	5u	218	CYS	C-N	7.00	1.42	1.33
1	73	119	THR	CA-C	-7.00	1.43	1.52
1	aj	132	ARG	CD-NE	7.00	1.56	1.46
1	b1	227	LYS	CA-C	-7.00	1.43	1.53
1	bg	61	GLY	C-O	7.00	1.30	1.23
1	bp	149	SER	C-N	7.00	1.42	1.33
1	bC	226	HIS	CA-CB	7.00	1.65	1.53
1	bE	64	ALA	CA-C	7.00	1.61	1.52
1	cf	92	GLU	CA-C	7.00	1.60	1.52
1	cT	128	GLU	CA-CB	7.00	1.64	1.53
1	dy	180	GLU	N-CA	-7.00	1.37	1.46
1	dK	144	MET	N-CA	-7.00	1.37	1.46
1	dL	129	ILE	C-N	7.00	1.43	1.34
1	ev	181	VAL	CA-CB	-7.00	1.45	1.54
1	fw	220	GLY	C-N	7.00	1.41	1.33
1	fN	200	THR	C-N	7.00	1.42	1.33
1	e	4	GLN	N-CA	7.00	1.54	1.46
1	H	122	PRO	N-CD	7.00	1.57	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1J	21	ASN	C-N	7.00	1.43	1.33
1	hG	216	THR	CA-C	-7.00	1.42	1.52
1	iR	87	HIS	CA-CB	7.00	1.63	1.53
1	kb	39	MET	N-CA	-7.00	1.38	1.46
1	kE	95	GLN	N-CA	-7.00	1.37	1.46
1	5B	160	PRO	C-N	7.00	1.43	1.33
1	5D	97	ARG	CD-NE	7.00	1.56	1.46
1	64	84	HIS	ND1-CE1	7.00	1.39	1.32
1	6G	124	ILE	CA-CB	7.00	1.61	1.53
1	73	130	TYR	C-N	7.00	1.43	1.33
1	7z	31	ALA	N-CA	-7.00	1.38	1.47
1	8i	207	PRO	C-N	7.00	1.42	1.33
1	8P	45	GLU	CA-CB	-7.00	1.41	1.53
1	8P	77	ALA	CA-CB	7.00	1.64	1.53
1	a9	59	VAL	N-CA	-7.00	1.37	1.46
1	b2	200	THR	C-O	7.00	1.32	1.24
1	18	151	LEU	N-CA	7.00	1.55	1.46
1	c1	112	GLN	CA-CB	7.00	1.64	1.53
1	e1	62	HIS	CB-CG	-7.00	1.40	1.50
1	g	66	MET	N-CA	-7.00	1.38	1.46
1	hC	154	ARG	N-CA	7.00	1.54	1.46
1	hI	39	MET	CA-C	7.00	1.61	1.52
1	1Z	14	ALA	CA-C	7.00	1.61	1.52
1	4u	223	GLY	C-N	-7.00	1.26	1.33
1	5u	84	HIS	ND1-CE1	7.00	1.39	1.32
1	6u	197	ASP	CA-CB	7.00	1.64	1.53
1	8F	26	VAL	CA-CB	-7.00	1.45	1.54
1	aT	55	MET	CA-CB	7.00	1.64	1.53
1	ef	97	ARG	CA-C	-7.00	1.43	1.53
1	ex	133	TRP	CA-C	7.00	1.61	1.52
1	f0	205	LEU	C-N	7.00	1.44	1.33
1	fs	24	VAL	C-N	7.00	1.43	1.33
1	fP	155	GLN	C-O	-7.00	1.15	1.23
1	i4	128	GLU	CA-C	6.99	1.61	1.52
1	1R	14	ALA	CA-C	6.99	1.61	1.52
1	jN	124	ILE	N-CA	-6.99	1.40	1.46
1	2a	98	GLU	CA-C	6.99	1.60	1.52
1	3N	154	ARG	CD-NE	6.99	1.56	1.46
1	5G	97	ARG	C-N	6.99	1.44	1.33
1	64	7	GLN	C-N	6.99	1.41	1.33
1	6S	26	VAL	N-CA	-6.99	1.38	1.46
1	7R	224	PRO	CA-CB	6.99	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8t	25	LYS	CA-CB	6.99	1.64	1.53
1	b0	20	LEU	CA-C	-6.99	1.44	1.52
1	bm	181	VAL	CA-CB	6.99	1.62	1.54
1	ce	100	ARG	N-CA	-6.99	1.36	1.45
1	dw	12	HIS	CA-C	-6.99	1.43	1.52
1	dM	120	HIS	ND1-CE1	6.99	1.39	1.32
1	dT	104	ILE	CA-CB	-6.99	1.46	1.54
1	fL	145	TYR	CA-CB	6.99	1.62	1.53
1	a	23	TRP	CA-C	6.99	1.61	1.52
1	2	106	GLY	N-CA	6.99	1.54	1.45
1	1G	21	ASN	CA-C	6.99	1.61	1.52
1	lA	24	VAL	CA-CB	6.99	1.63	1.54
1	2i	171	THR	CA-C	-6.99	1.43	1.52
1	7a	117	TRP	NE1-CE2	-6.99	1.29	1.37
1	8K	128	GLU	CA-C	6.99	1.61	1.52
1	ax	71	GLU	CA-CB	6.99	1.64	1.53
1	c7	134	ILE	CA-CB	-6.99	1.45	1.54
1	1i	82	ARG	CD-NE	6.99	1.56	1.46
1	dj	18	ARG	CD-NE	6.99	1.56	1.46
1	dw	179	GLN	C-N	6.99	1.42	1.33
1	e4	190	LEU	CA-C	6.99	1.62	1.52
1	eG	92	GLU	CA-C	6.99	1.61	1.52
1	gg	106	GLY	CA-C	-6.99	1.41	1.51
1	gy	143	ARG	CD-NE	6.99	1.56	1.46
1	gB	112	GLN	N-CA	6.99	1.55	1.46
1	ho	117	TRP	CA-C	6.99	1.61	1.52
1	i1	162	ARG	CA-C	6.99	1.62	1.52
1	i4	42	ALA	CA-CB	6.99	1.64	1.53
1	ip	90	PRO	CA-C	-6.99	1.44	1.52
1	j8	138	LEU	CA-C	6.99	1.61	1.52
1	kL	120	HIS	CG-ND1	6.99	1.46	1.38
1	kP	127	GLY	CA-C	-6.99	1.44	1.52
1	lb	209	ALA	C-N	6.99	1.42	1.33
1	lp	63	GLN	CA-C	6.99	1.61	1.52
1	3g	123	PRO	C-N	6.99	1.39	1.33
1	3h	16	SER	CA-C	-6.99	1.44	1.52
1	4P	20	LEU	C-N	6.99	1.42	1.33
1	4Y	179	GLN	CA-C	-6.99	1.43	1.52
1	6f	48	THR	CA-CB	6.99	1.63	1.53
1	7V	212	GLU	N-CA	-6.99	1.38	1.46
1	8m	164	TYR	C-O	-6.99	1.16	1.24
1	8y	72	THR	CA-CB	-6.99	1.42	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9w	132	ARG	CA-C	-6.99	1.43	1.52
1	9E	24	VAL	CA-C	6.99	1.61	1.52
1	c0	18	ARG	CA-C	6.99	1.61	1.52
1	cc	123	PRO	C-N	6.99	1.41	1.33
1	cS	159	GLU	CA-CB	6.99	1.63	1.53
1	dK	166	ASP	CA-CB	6.99	1.64	1.53
1	ez	216	THR	CA-C	-6.99	1.43	1.52
1	1v	139	ASN	C-N	6.99	1.42	1.33
1	fD	63	GLN	C-N	6.99	1.43	1.33
1	g7	182	LYS	CA-CB	6.99	1.64	1.53
1	S	95	GLN	CA-C	-6.99	1.44	1.52
1	gy	84	HIS	CE1-NE2	-6.99	1.25	1.32
1	i9	178	SER	CA-CB	6.99	1.65	1.53
1	lE	168	PHE	CA-CB	6.99	1.64	1.53
1	lF	42	ALA	CA-CB	6.99	1.64	1.53
1	2w	110	THR	C-N	6.99	1.43	1.33
1	36	33	SER	C-N	6.99	1.42	1.33
1	41	189	LEU	CA-CB	6.99	1.64	1.53
1	4c	172	LEU	CA-CB	6.99	1.64	1.53
1	5O	226	HIS	CD2-NE2	6.99	1.45	1.37
1	5T	15	ILE	CA-CB	-6.99	1.47	1.54
1	80	78	ALA	CA-C	6.99	1.61	1.52
1	8F	141	ILE	CA-C	6.99	1.61	1.52
1	aj	146	SER	C-N	6.99	1.39	1.33
1	b4	204	ALA	CA-C	-6.99	1.44	1.52
1	b4	209	ALA	CA-C	6.99	1.62	1.52
1	cR	160	PRO	CA-C	6.99	1.62	1.52
1	cS	34	PRO	CA-CB	6.99	1.63	1.53
1	dn	146	SER	CA-C	6.99	1.60	1.53
1	eV	197	ASP	CA-CB	6.99	1.64	1.53
1	fw	230	VAL	CA-C	-6.99	1.43	1.52
1	fz	110	THR	CA-C	-6.99	1.43	1.53
1	fV	123	PRO	N-CA	-6.99	1.39	1.47
1	h9	40	PHE	CA-C	6.99	1.61	1.52
1	jD	216	THR	N-CA	-6.99	1.37	1.46
1	26	123	PRO	C-N	6.99	1.40	1.33
1	lA	152	ASP	C-N	6.99	1.41	1.33
1	4W	69	LEU	CA-C	-6.99	1.44	1.52
1	as	114	GLN	N-CA	-6.99	1.38	1.46
1	14	120	HIS	ND1-CE1	6.99	1.39	1.32
1	bf	152	ASP	C-N	6.99	1.41	1.34
1	dC	84	HIS	ND1-CE1	6.99	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eq	36	VAL	N-CA	-6.99	1.37	1.46
1	gd	224	PRO	CA-C	6.99	1.60	1.52
1	gh	166	ASP	C-N	6.99	1.43	1.33
1	hm	158	LYS	CA-C	6.99	1.61	1.52
1	hq	3	VAL	N-CA	-6.99	1.38	1.46
1	ie	130	TYR	CA-C	6.99	1.61	1.52
1	ij	97	ARG	CD-NE	6.99	1.56	1.46
1	lH	123	PRO	N-CD	6.99	1.57	1.47
1	2j	155	GLN	CA-C	6.99	1.62	1.52
1	2L	6	LEU	CA-C	6.99	1.61	1.52
1	3x	107	THR	N-CA	6.99	1.55	1.46
1	47	188	THR	CA-C	6.99	1.57	1.52
1	6X	47	ALA	N-CA	-6.99	1.37	1.46
1	8v	78	ALA	C-N	6.99	1.42	1.33
1	93	37	ILE	CA-C	6.99	1.58	1.52
1	9n	70	LYS	CA-CB	6.99	1.64	1.53
1	9z	84	HIS	CG-CD2	6.99	1.43	1.35
1	aj	80	TRP	CA-C	6.99	1.61	1.52
1	aV	143	ARG	N-CA	-6.99	1.37	1.46
1	bb	183	ASN	CA-C	6.99	1.62	1.52
1	bC	212	GLU	CA-CB	6.99	1.64	1.53
1	cW	99	PRO	CA-C	-6.99	1.46	1.52
1	1n	4	GLN	CA-CB	6.99	1.63	1.53
1	dW	213	GLU	N-CA	6.99	1.55	1.46
1	eQ	105	ALA	CA-C	6.99	1.62	1.52
1	eT	2	ILE	C-N	6.99	1.43	1.33
1	fb	7	GLN	CA-C	6.99	1.60	1.53
1	J	38	PRO	C-O	-6.99	1.14	1.24
1	4W	123	PRO	C-N	6.98	1.39	1.32
1	8w	133	TRP	NE1-CE2	-6.98	1.29	1.37
1	8z	71	GLU	N-CA	6.98	1.54	1.46
1	bC	119	THR	N-CA	6.98	1.55	1.46
1	1d	115	ILE	CA-CB	-6.98	1.45	1.54
1	ck	81	ASP	N-CA	6.98	1.54	1.46
1	cE	183	ASN	C-O	-6.98	1.15	1.24
1	dt	72	THR	CA-C	-6.98	1.43	1.52
1	eh	152	ASP	CA-CB	6.98	1.64	1.53
1	eG	205	LEU	CA-C	-6.98	1.43	1.52
1	h5	124	ILE	N-CA	6.98	1.51	1.46
1	hO	130	TYR	CA-CB	6.98	1.64	1.53
1	iv	96	MET	CA-C	6.98	1.61	1.52
1	iZ	164	TYR	N-CA	-6.98	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j4	109	SER	N-CA	-6.98	1.37	1.46
1	36	3	VAL	CA-C	6.98	1.61	1.52
1	49	227	LYS	CA-CB	6.98	1.64	1.53
1	4l	27	VAL	CA-CB	-6.98	1.46	1.54
1	53	134	ILE	CA-CB	6.98	1.63	1.54
1	5u	18	ARG	CA-C	-6.98	1.42	1.52
1	5L	146	SER	CA-C	6.98	1.61	1.53
1	6i	21	ASN	N-CA	-6.98	1.38	1.46
1	72	37	ILE	CA-C	6.98	1.58	1.52
1	8N	37	ILE	CA-C	6.98	1.59	1.52
1	9N	121	ASN	CA-CB	6.98	1.63	1.53
1	15	44	SER	CA-CB	6.98	1.64	1.53
1	1h	175	GLU	CA-CB	6.98	1.64	1.53
1	cZ	33	SER	CA-C	6.98	1.61	1.52
1	dQ	125	PRO	CA-CB	6.98	1.58	1.53
1	ef	70	LYS	CA-C	-6.98	1.43	1.52
1	fY	67	GLN	CA-CB	6.98	1.64	1.53
1	gx	226	HIS	CA-C	6.98	1.61	1.52
1	iT	229	ARG	CA-C	6.98	1.61	1.52
1	jJ	140	LYS	C-N	6.98	1.42	1.34
1	ks	160	PRO	CA-C	-6.98	1.44	1.52
1	lf	132	ARG	CD-NE	6.98	1.56	1.46
1	2g	134	ILE	CA-C	6.98	1.61	1.52
1	2X	114	GLN	CA-CB	6.98	1.64	1.53
1	2Z	2	ILE	N-CA	6.98	1.54	1.46
1	3g	224	PRO	N-CD	-6.98	1.38	1.47
1	3V	156	GLY	N-CA	6.98	1.52	1.43
1	4Z	217	ALA	CA-C	6.98	1.61	1.52
1	5e	32	PHE	CA-CB	6.98	1.64	1.53
1	5F	84	HIS	CE1-NE2	-6.98	1.25	1.32
1	66	124	ILE	CA-CB	-6.98	1.45	1.54
1	7G	168	PHE	C-O	-6.98	1.16	1.24
1	8F	71	GLU	C-N	6.98	1.43	1.33
1	9n	179	GLN	CA-CB	6.98	1.64	1.53
1	9t	120	HIS	C-N	6.98	1.41	1.33
1	av	213	GLU	N-CA	6.98	1.54	1.46
1	bR	195	ASN	CA-CB	6.98	1.64	1.53
1	1g	132	ARG	C-N	6.98	1.43	1.33
1	1i	201	ILE	C-N	6.98	1.43	1.33
1	d5	80	TRP	N-CA	-6.98	1.38	1.46
1	dv	172	LEU	C-N	6.98	1.43	1.33
1	e2	121	ASN	CA-CB	6.98	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e8	89	GLY	N-CA	6.98	1.54	1.44
1	eM	213	GLU	CA-CB	6.98	1.64	1.53
1	f4	149	SER	C-N	6.98	1.41	1.34
1	j	10	MET	C-N	6.98	1.41	1.34
1	kK	68	MET	C-N	6.98	1.43	1.33
1	2W	85	PRO	CA-C	-6.98	1.44	1.52
1	6Q	128	GLU	CA-CB	6.98	1.64	1.53
1	9J	12	HIS	ND1-CE1	6.98	1.39	1.32
1	al	56	LEU	CA-CB	6.98	1.64	1.53
1	1A	131	LYS	CA-C	6.98	1.61	1.52
1	L	35	GLU	N-CA	-6.98	1.38	1.46
1	g8	226	HIS	CG-CD2	-6.98	1.28	1.35
1	hv	2	ILE	CA-CB	-6.98	1.45	1.54
1	1L	228	ALA	N-CA	-6.98	1.37	1.46
1	i0	9	GLN	C-N	6.98	1.42	1.33
1	jy	4	GLN	C-N	6.98	1.43	1.33
1	kW	152	ASP	CA-C	6.98	1.61	1.53
1	lx	19	THR	C-N	6.98	1.43	1.33
1	2P	71	GLU	CA-C	6.98	1.61	1.52
1	2R	206	GLY	CA-C	-6.98	1.42	1.51
1	3o	169	TYR	C-N	6.98	1.43	1.33
1	3C	115	ILE	CA-CB	6.98	1.62	1.54
1	58	162	ARG	CZ-NH1	-6.98	1.23	1.32
1	5P	5	ASN	CA-CB	6.98	1.63	1.53
1	6P	14	ALA	CA-C	-6.98	1.44	1.52
1	7y	142	VAL	C-N	6.98	1.42	1.33
1	9l	96	MET	CA-CB	6.98	1.65	1.53
1	ae	169	TYR	C-O	-6.98	1.16	1.24
1	af	167	ARG	CD-NE	6.98	1.56	1.46
1	bK	125	PRO	CA-CB	6.98	1.57	1.53
1	ca	40	PHE	CA-C	6.98	1.61	1.52
1	cS	105	ALA	C-N	6.98	1.42	1.33
1	dd	129	ILE	CA-CB	6.98	1.62	1.54
1	e9	120	HIS	ND1-CE1	6.98	1.39	1.32
1	fA	144	MET	CA-C	6.98	1.61	1.52
1	v	84	HIS	CA-CB	6.98	1.63	1.53
1	y	1	PRO	N-CD	6.98	1.57	1.47
1	A	92	GLU	CA-CB	6.98	1.64	1.54
1	gM	17	PRO	C-N	6.98	1.43	1.34
1	hy	93	PRO	N-CA	-6.98	1.39	1.47
1	is	219	GLN	CA-CB	6.98	1.63	1.53
1	jo	217	ALA	C-N	6.98	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	js	202	LEU	CB-CG	6.98	1.67	1.53
1	24	78	ALA	N-CA	-6.98	1.38	1.46
1	7N	174	ALA	CA-C	6.98	1.62	1.52
1	8x	30	LYS	CA-C	-6.98	1.43	1.52
1	aI	145	TYR	CA-CB	6.98	1.64	1.53
1	bu	230	VAL	CA-CB	-6.98	1.46	1.54
1	c0	168	PHE	CA-C	6.98	1.61	1.52
1	cw	101	GLY	N-CA	6.98	1.55	1.45
1	d4	221	VAL	CA-C	-6.98	1.44	1.52
1	em	87	HIS	ND1-CE1	6.98	1.39	1.32
1	f2	62	HIS	CG-CD2	6.98	1.43	1.35
1	f9	122	PRO	C-N	-6.98	1.25	1.33
1	fj	21	ASN	CA-C	6.98	1.61	1.52
1	gT	38	PRO	C-N	6.97	1.42	1.33
1	h6	87	HIS	ND1-CE1	6.97	1.39	1.32
1	hi	138	LEU	N-CA	6.97	1.54	1.46
1	it	87	HIS	N-CA	-6.97	1.37	1.45
1	1X	104	ILE	CA-CB	6.97	1.63	1.54
1	kH	180	GLU	C-N	6.97	1.42	1.33
1	kS	173	ARG	CD-NE	6.97	1.56	1.46
1	2K	62	HIS	ND1-CE1	-6.97	1.25	1.32
1	35	48	THR	CA-CB	6.97	1.61	1.53
1	3q	72	THR	C-N	6.97	1.42	1.33
1	3H	62	HIS	CA-C	-6.97	1.44	1.53
1	48	152	ASP	CA-C	6.97	1.61	1.52
1	5n	210	THR	C-N	6.97	1.43	1.33
1	6P	107	THR	N-CA	6.97	1.54	1.46
1	8m	192	GLN	N-CA	-6.97	1.38	1.46
1	8B	221	VAL	CA-C	6.97	1.61	1.52
1	8W	84	HIS	ND1-CE1	6.97	1.39	1.32
1	9n	66	MET	CA-CB	6.97	1.64	1.53
1	a0	51	ASP	CA-C	6.97	1.61	1.52
1	aw	226	HIS	CD2-NE2	6.97	1.45	1.37
1	cv	169	TYR	CA-C	6.97	1.61	1.52
1	cI	17	PRO	CA-CB	6.97	1.63	1.53
1	a	131	LYS	CA-C	6.97	1.61	1.52
1	W	195	ASN	C-N	6.97	1.42	1.34
1	gt	158	LYS	C-N	6.97	1.40	1.33
1	gG	228	ALA	N-CA	-6.97	1.37	1.46
1	hf	166	ASP	CA-C	-6.97	1.44	1.52
1	1N	52	LEU	N-CA	-6.97	1.38	1.46
1	i4	66	MET	C-N	-6.97	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	il	81	ASP	N-CA	6.97	1.54	1.46
1	im	214	MET	C-N	6.97	1.43	1.33
1	1S	105	ALA	CA-C	6.97	1.63	1.52
1	jh	226	HIS	CD2-NE2	6.97	1.45	1.37
1	kJ	1	PRO	N-CA	6.97	1.57	1.47
1	4o	193	ASN	CA-CB	6.97	1.65	1.53
1	4Y	226	HIS	CA-C	6.97	1.61	1.53
1	5x	97	ARG	N-CA	-6.97	1.36	1.46
1	7c	76	GLU	CA-C	6.97	1.61	1.52
1	9v	82	ARG	CD-NE	6.97	1.56	1.46
1	bm	72	THR	C-N	6.97	1.42	1.34
1	dw	53	ASN	CA-C	-6.97	1.43	1.52
1	ea	59	VAL	CA-C	6.97	1.60	1.52
1	eC	112	GLN	N-CA	-6.97	1.38	1.46
1	fc	58	THR	N-CA	6.97	1.55	1.46
1	fG	99	PRO	C-N	6.97	1.43	1.33
1	g6	78	ALA	C-N	-6.97	1.24	1.33
1	a	37	ILE	CA-C	6.97	1.60	1.52
1	l	108	THR	N-CA	-6.97	1.36	1.46
1	gz	52	LEU	CA-CB	6.97	1.64	1.53
1	2x	124	ILE	N-CA	-6.97	1.40	1.46
1	4r	120	HIS	C-N	6.97	1.42	1.33
1	4V	158	LYS	CA-CB	6.97	1.62	1.53
1	59	221	VAL	CA-C	6.97	1.60	1.52
1	5W	93	PRO	CA-C	-6.97	1.44	1.52
1	dG	195	ASN	CA-CB	6.97	1.63	1.53
1	g4	5	ASN	CA-C	-6.97	1.43	1.52
1	gG	133	TRP	CA-C	6.97	1.61	1.52
1	gT	61	GLY	C-O	-6.97	1.15	1.23
1	hb	175	GLU	CA-C	-6.97	1.43	1.52
1	1S	12	HIS	CB-CG	6.97	1.59	1.50
1	kd	154	ARG	CZ-NH2	-6.97	1.24	1.33
1	2p	65	ALA	N-CA	-6.97	1.38	1.46
1	2w	160	PRO	CA-CB	6.97	1.63	1.53
1	2Q	37	ILE	CA-CB	6.97	1.58	1.54
1	3A	180	GLU	C-N	6.97	1.42	1.33
1	5b	143	ARG	CA-CB	6.97	1.64	1.53
1	5e	110	THR	N-CA	6.97	1.53	1.45
1	6c	165	VAL	CA-CB	6.97	1.62	1.54
1	7X	204	ALA	N-CA	-6.97	1.37	1.46
1	8x	136	LEU	CA-CB	6.97	1.64	1.53
1	8T	183	ASN	CA-CB	6.97	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8U	123	PRO	N-CA	-6.97	1.39	1.47
1	9l	130	TYR	CA-C	6.97	1.61	1.52
1	as	33	SER	CA-CB	6.97	1.62	1.53
1	aG	58	THR	CA-CB	6.97	1.64	1.53
1	cR	136	LEU	N-CA	6.97	1.54	1.46
1	dd	106	GLY	CA-C	-6.97	1.44	1.51
1	di	136	LEU	CA-C	-6.97	1.44	1.52
1	f6	18	ARG	N-CA	-6.97	1.37	1.46
1	fS	23	TRP	C-N	6.97	1.42	1.33
1	m	135	ILE	CA-C	6.97	1.61	1.52
1	J	48	THR	C-N	6.97	1.43	1.33
1	7	87	HIS	ND1-CE1	6.97	1.39	1.32
1	1F	223	GLY	C-N	6.97	1.41	1.33
1	ie	21	ASN	CA-C	6.97	1.61	1.52
1	ii	186	THR	C-O	-6.97	1.15	1.24
1	jG	154	ARG	CD-NE	6.97	1.56	1.46
1	2z	120	HIS	CA-C	6.97	1.62	1.53
1	40	131	LYS	CA-C	6.97	1.62	1.52
1	6N	201	ILE	CA-C	-6.97	1.44	1.52
1	8A	124	ILE	N-CA	-6.97	1.40	1.46
1	8S	86	VAL	CA-C	6.97	1.60	1.52
1	9Z	84	HIS	ND1-CE1	6.97	1.39	1.32
1	aN	59	VAL	CA-C	-6.97	1.44	1.52
1	1j	158	LYS	CA-C	-6.97	1.43	1.53
1	3	170	LYS	N-CA	-6.97	1.38	1.46
1	hb	5	ASN	N-CA	-6.97	1.40	1.46
1	ic	39	MET	CA-C	6.97	1.61	1.52
1	jg	186	THR	N-CA	-6.97	1.38	1.46
1	22	87	HIS	CG-CD2	6.97	1.43	1.35
1	l3	5	ASN	CA-C	6.97	1.60	1.52
1	ly	91	ILE	CA-CB	6.97	1.61	1.54
1	2N	226	HIS	CE1-NE2	6.97	1.39	1.32
1	5n	201	ILE	CA-C	6.97	1.61	1.52
1	5u	201	ILE	CA-CB	6.97	1.63	1.54
1	6f	118	MET	CA-CB	6.97	1.64	1.54
1	70	33	SER	N-CA	6.97	1.52	1.46
1	8l	82	ARG	CA-C	6.97	1.61	1.52
1	9k	166	ASP	CA-C	6.97	1.61	1.52
1	ap	25	LYS	CA-CB	6.97	1.64	1.53
1	aq	195	ASN	C-N	6.97	1.43	1.34
1	ay	23	TRP	CA-C	-6.97	1.43	1.52
1	bZ	39	MET	CA-C	6.97	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	57	ASN	C-N	6.97	1.43	1.33
1	dc	184	TRP	NE1-CE2	-6.97	1.29	1.37
1	gF	127	GLY	CA-C	-6.96	1.42	1.51
1	h0	60	GLY	CA-C	-6.96	1.42	1.51
1	h7	145	TYR	CA-C	6.96	1.62	1.52
1	hi	160	PRO	N-CA	6.96	1.56	1.47
1	1M	167	ARG	CD-NE	6.96	1.56	1.46
1	jv	86	VAL	CA-C	6.96	1.60	1.52
1	jE	223	GLY	C-N	-6.96	1.25	1.33
1	jM	36	VAL	N-CA	6.96	1.54	1.46
1	jW	121	ASN	CA-C	-6.96	1.45	1.52
1	24	159	GLU	N-CA	6.96	1.53	1.45
1	3L	200	THR	C-N	6.96	1.42	1.33
1	4S	218	CYS	CA-C	6.96	1.62	1.52
1	5z	111	LEU	CA-C	6.96	1.61	1.52
1	5F	198	CYS	N-CA	-6.96	1.38	1.46
1	7S	162	ARG	CZ-NH2	-6.96	1.24	1.33
1	86	10	MET	CA-C	6.96	1.60	1.52
1	8g	147	PRO	N-CA	-6.96	1.39	1.47
1	9l	223	GLY	C-N	6.96	1.42	1.33
1	Z	21	ASN	C-N	6.96	1.43	1.33
1	a0	204	ALA	CA-C	6.96	1.61	1.52
1	ag	1	PRO	C-N	6.96	1.43	1.33
1	aj	143	ARG	CA-C	-6.96	1.44	1.52
1	be	99	PRO	CA-C	-6.96	1.44	1.52
1	bC	155	GLN	N-CA	6.96	1.54	1.46
1	c9	211	LEU	CA-CB	6.96	1.64	1.53
1	do	22	ALA	CA-CB	6.96	1.64	1.53
1	1p	135	ILE	CA-CB	-6.96	1.45	1.54
1	g7	18	ARG	CZ-NH2	-6.96	1.24	1.33
1	C	37	ILE	CA-CB	6.96	1.58	1.54
1	H	37	ILE	CA-CB	6.96	1.58	1.53
1	ga	84	HIS	CB-CG	6.96	1.59	1.50
1	1C	77	ALA	CA-C	-6.96	1.44	1.52
1	if	199	LYS	N-CA	-6.96	1.37	1.46
1	1W	100	ARG	CA-CB	6.96	1.64	1.53
1	22	197	ASP	CA-CB	6.96	1.64	1.53
1	lQ	106	GLY	CA-C	-6.96	1.42	1.51
1	4W	124	ILE	N-CA	6.96	1.53	1.46
1	6p	117	TRP	CA-C	6.96	1.61	1.52
1	cD	41	SER	CA-CB	6.96	1.64	1.53
1	1y	213	GLU	CA-CB	6.96	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	x	72	THR	N-CA	6.96	1.54	1.46
1	1W	190	LEU	N-CA	6.96	1.54	1.46
1	25	62	HIS	CD2-NE2	-6.96	1.30	1.37
1	28	87	HIS	CE1-NE2	-6.96	1.25	1.32
1	2p	1	PRO	N-CD	6.96	1.57	1.47
1	2K	37	ILE	CA-CB	6.96	1.58	1.53
1	4w	220	GLY	CA-C	-6.96	1.42	1.51
1	5k	75	GLU	CA-C	-6.96	1.43	1.52
1	5S	143	ARG	CA-CB	6.96	1.64	1.53
1	68	10	MET	CA-CB	6.96	1.65	1.53
1	6q	199	LYS	CA-C	6.96	1.62	1.52
1	7m	3	VAL	CA-CB	-6.96	1.46	1.54
1	9S	102	SER	CA-CB	6.96	1.64	1.53
1	bL	14	ALA	N-CA	-6.96	1.37	1.46
1	cc	165	VAL	CA-C	6.96	1.61	1.52
1	dh	86	VAL	CA-CB	-6.96	1.45	1.54
1	dD	184	TRP	N-CA	6.96	1.54	1.46
1	V	79	GLU	C-N	6.96	1.43	1.33
1	gH	219	GLN	N-CA	-6.96	1.37	1.45
1	hG	12	HIS	N-CA	-6.96	1.37	1.46
1	jN	140	LYS	C-N	6.96	1.42	1.33
1	4d	8	GLY	C-N	6.96	1.42	1.33
1	4p	208	ALA	CA-CB	6.96	1.58	1.53
1	6g	198	CYS	C-N	6.96	1.42	1.33
1	6X	54	THR	N-CA	6.96	1.54	1.46
1	8u	120	HIS	CA-CB	6.96	1.64	1.53
1	9L	30	LYS	CA-CB	6.96	1.63	1.53
1	bF	184	TRP	CA-C	6.96	1.61	1.52
1	1k	111	LEU	CA-CB	6.96	1.64	1.53
1	f9	138	LEU	CA-CB	6.96	1.64	1.53
1	gB	163	ASP	CA-C	-6.96	1.42	1.52
1	iy	170	LYS	CA-CB	6.96	1.64	1.53
1	ka	229	ARG	C-O	-6.96	1.14	1.23
1	kt	162	ARG	CD-NE	6.96	1.55	1.46
1	kE	173	ARG	CD-NE	6.96	1.55	1.46
1	kF	162	ARG	CD-NE	6.96	1.55	1.46
1	lO	68	MET	N-CA	6.96	1.54	1.46
1	lO	185	MET	CA-C	6.96	1.62	1.52
1	2Q	3	VAL	CA-C	-6.96	1.43	1.52
1	3G	164	TYR	C-N	-6.96	1.25	1.33
1	48	42	ALA	N-CA	-6.96	1.37	1.46
1	4e	80	TRP	CA-C	-6.96	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5K	22	ALA	C-N	6.96	1.43	1.33
1	6d	90	PRO	CA-C	6.96	1.60	1.52
1	9e	167	ARG	CD-NE	6.96	1.55	1.46
1	9u	147	PRO	N-CA	-6.96	1.38	1.47
1	a5	88	ALA	CA-CB	6.96	1.62	1.53
1	cP	97	ARG	CD-NE	6.96	1.55	1.46
1	dm	106	GLY	CA-C	6.96	1.61	1.51
1	dK	143	ARG	CA-C	-6.96	1.43	1.52
1	dX	59	VAL	CA-CB	-6.96	1.46	1.54
1	1z	45	GLU	N-CA	-6.96	1.37	1.46
1	g4	143	ARG	C-N	6.96	1.43	1.33
1	e	137	GLY	N-CA	6.96	1.54	1.45
1	Q	37	ILE	CA-CB	6.96	1.58	1.54
1	hw	26	VAL	CA-CB	6.96	1.63	1.54
1	kq	65	ALA	N-CA	-6.96	1.37	1.46
1	lM	91	ILE	CA-C	6.96	1.60	1.52
1	lN	123	PRO	C-N	6.96	1.39	1.33
1	2T	104	ILE	CA-CB	-6.96	1.46	1.54
1	36	1	PRO	N-CD	6.96	1.57	1.47
1	47	133	TRP	CA-CB	6.96	1.64	1.53
1	5p	44	SER	CA-CB	6.96	1.62	1.53
1	5q	95	GLN	C-N	6.96	1.42	1.33
1	7O	126	VAL	CA-C	6.96	1.62	1.52
1	93	177	ALA	CA-C	6.96	1.61	1.52
1	9r	134	ILE	CA-C	-6.96	1.44	1.52
1	9w	220	GLY	N-CA	6.96	1.53	1.45
1	9W	120	HIS	CB-CG	6.96	1.59	1.50
1	aF	24	VAL	C-N	6.96	1.43	1.34
1	aP	2	ILE	C-N	6.96	1.42	1.33
1	1a	70	LYS	C-N	6.96	1.42	1.33
1	cJ	155	GLN	N-CA	-6.96	1.37	1.46
1	cQ	68	MET	N-CA	-6.96	1.37	1.46
1	eY	79	GLU	CA-C	6.96	1.62	1.52
1	fm	67	GLN	C-N	6.96	1.43	1.34
1	g6	133	TRP	N-CA	6.96	1.54	1.46
1	1B	2	ILE	C-N	6.96	1.42	1.33
1	X	100	ARG	CA-CB	6.96	1.63	1.53
1	jS	171	THR	N-CA	-6.96	1.38	1.46
1	2t	131	LYS	CA-C	-6.96	1.43	1.52
1	5F	133	TRP	CA-CB	6.96	1.64	1.53
1	6s	196	PRO	C-O	-6.96	1.15	1.24
1	6R	190	LEU	C-N	6.96	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7s	120	HIS	ND1-CE1	6.96	1.39	1.32
1	8n	95	GLN	CA-CB	6.96	1.64	1.53
1	av	123	PRO	C-N	6.96	1.40	1.33
1	cD	36	VAL	C-N	6.96	1.41	1.33
1	cJ	84	HIS	CA-CB	6.96	1.62	1.53
1	fL	134	ILE	CA-C	6.96	1.61	1.52
1	hC	104	ILE	CA-C	6.95	1.61	1.52
1	j5	105	ALA	N-CA	-6.95	1.37	1.46
1	js	89	GLY	CA-C	-6.95	1.42	1.51
1	25	27	VAL	CA-C	6.95	1.61	1.52
1	l7	168	PHE	CA-C	6.95	1.61	1.52
1	lb	83	LEU	CA-C	6.95	1.61	1.52
1	28	214	MET	C-N	6.95	1.43	1.34
1	lt	113	GLU	N-CA	6.95	1.54	1.46
1	2i	126	VAL	CA-C	-6.95	1.44	1.52
1	2t	163	ASP	N-CA	6.95	1.55	1.46
1	3B	216	THR	C-N	6.95	1.42	1.33
1	3G	85	PRO	CA-C	6.95	1.61	1.52
1	5m	107	THR	CA-C	-6.95	1.44	1.53
1	5Z	59	VAL	N-CA	6.95	1.54	1.46
1	6d	59	VAL	CA-C	6.95	1.61	1.52
1	6d	177	ALA	CA-C	6.95	1.61	1.52
1	6J	37	ILE	CA-C	6.95	1.60	1.52
1	89	78	ALA	CA-CB	6.95	1.64	1.53
1	8j	43	LEU	CA-C	-6.95	1.43	1.52
1	8o	165	VAL	C-N	6.95	1.43	1.33
1	8q	40	PHE	CA-CB	6.95	1.64	1.53
1	8y	187	GLU	CA-C	-6.95	1.43	1.52
1	a2	33	SER	CA-C	-6.95	1.45	1.53
1	al	208	ALA	CA-CB	6.95	1.64	1.53
1	aA	124	ILE	CA-CB	6.95	1.60	1.54
1	13	196	PRO	N-CA	-6.95	1.38	1.47
1	bs	160	PRO	N-CA	-6.95	1.38	1.47
1	bA	129	ILE	N-CA	6.95	1.54	1.46
1	ch	26	VAL	CA-C	-6.95	1.44	1.52
1	cy	31	ALA	CA-C	6.95	1.62	1.52
1	dw	145	TYR	C-N	6.95	1.42	1.33
1	dJ	126	VAL	C-O	-6.95	1.16	1.24
1	1o	161	PHE	CA-C	-6.95	1.43	1.52
1	fo	141	ILE	CA-CB	-6.95	1.46	1.54
1	fP	191	VAL	CA-C	6.95	1.61	1.52
1	fW	67	GLN	C-N	6.95	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fX	59	VAL	CA-CB	-6.95	1.45	1.53
1	I	51	ASP	CA-CB	6.95	1.64	1.53
1	gT	85	PRO	CA-CB	6.95	1.60	1.53
1	1K	57	ASN	N-CA	-6.95	1.36	1.46
1	i5	135	ILE	N-CA	-6.95	1.38	1.46
1	jW	175	GLU	CA-CB	6.95	1.65	1.53
1	kb	39	MET	CA-C	6.95	1.61	1.52
1	lG	197	ASP	C-N	6.95	1.43	1.33
1	3M	72	THR	CA-CB	6.95	1.64	1.53
1	42	187	GLU	C-N	6.95	1.42	1.33
1	4e	20	LEU	CA-C	6.95	1.61	1.52
1	8Q	53	ASN	CA-C	-6.95	1.43	1.52
1	9h	227	LYS	CA-C	-6.95	1.44	1.52
1	bd	226	HIS	ND1-CE1	6.95	1.39	1.32
1	bM	50	GLN	CA-CB	6.95	1.64	1.53
1	bT	26	VAL	C-N	6.95	1.42	1.34
1	dL	99	PRO	CA-CB	6.95	1.62	1.53
1	ec	149	SER	CA-CB	6.95	1.65	1.53
1	fg	108	THR	CA-CB	-6.95	1.42	1.53
1	p	82	ARG	N-CA	-6.95	1.38	1.46
1	gN	23	TRP	CA-CB	6.95	1.64	1.53
1	hF	205	LEU	CA-CB	6.95	1.65	1.53
1	i0	45	GLU	CA-C	6.95	1.61	1.52
1	i5	150	ILE	N-CA	6.95	1.55	1.46
1	2E	37	ILE	C-N	6.95	1.43	1.34
1	4R	147	PRO	CA-C	-6.95	1.41	1.52
1	65	18	ARG	CD-NE	6.95	1.55	1.46
1	6f	82	ARG	CA-CB	6.95	1.64	1.53
1	7A	214	MET	CA-CB	6.95	1.64	1.53
1	8g	117	TRP	CA-CB	6.95	1.64	1.53
1	8v	12	HIS	ND1-CE1	6.95	1.39	1.32
1	8R	87	HIS	ND1-CE1	6.95	1.39	1.32
1	8W	87	HIS	ND1-CE1	6.95	1.39	1.32
1	bq	163	ASP	CA-CB	6.95	1.64	1.53
1	ca	142	VAL	N-CA	6.95	1.54	1.46
1	cP	29	GLU	CA-C	6.95	1.61	1.52
1	1m	194	ALA	CA-C	6.95	1.61	1.52
1	1p	37	ILE	CA-C	6.95	1.60	1.52
1	1x	181	VAL	CA-C	6.95	1.61	1.52
1	fD	210	THR	C-N	6.95	1.43	1.33
1	e	141	ILE	C-N	6.95	1.42	1.33
1	1D	195	ASN	CA-C	6.95	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hB	221	VAL	C-N	6.95	1.41	1.33
1	hI	131	LYS	CA-CB	6.95	1.64	1.53
1	hV	130	TYR	CA-C	-6.95	1.44	1.52
1	id	211	LEU	C-O	-6.95	1.16	1.24
1	if	192	GLN	CA-CB	6.95	1.64	1.53
1	iv	95	GLN	CA-CB	6.95	1.63	1.54
1	iZ	8	GLY	CA-C	6.95	1.63	1.52
1	jC	115	ILE	CA-CB	-6.95	1.45	1.54
1	jQ	84	HIS	CE1-NE2	6.95	1.39	1.32
1	kU	154	ARG	CD-NE	6.95	1.55	1.46
1	5d	144	MET	CA-C	-6.95	1.44	1.52
1	5K	80	TRP	C-N	6.95	1.43	1.33
1	5L	132	ARG	CZ-NH2	-6.95	1.24	1.33
1	7g	37	ILE	CA-C	6.95	1.58	1.52
1	83	59	VAL	C-N	6.95	1.42	1.33
1	8w	174	ALA	C-N	6.95	1.42	1.33
1	96	201	ILE	CA-C	6.95	1.61	1.52
1	9I	65	ALA	CA-CB	6.95	1.64	1.53
1	aF	141	ILE	CA-CB	6.95	1.62	1.54
1	b4	188	THR	CA-C	-6.95	1.43	1.52
1	cI	28	GLU	C-O	-6.95	1.16	1.24
1	eb	87	HIS	CA-C	6.95	1.60	1.52
1	eG	143	ARG	C-N	6.95	1.43	1.33
1	eW	228	ALA	CA-C	-6.95	1.43	1.52
1	eZ	84	HIS	CA-CB	6.95	1.62	1.53
1	f9	75	GLU	CA-C	-6.95	1.44	1.52
1	fc	33	SER	C-N	6.95	1.40	1.33
1	fL	122	PRO	C-N	6.95	1.42	1.33
1	hq	178	SER	CA-CB	6.95	1.64	1.53
1	hE	222	GLY	CA-C	-6.95	1.42	1.51
1	hU	82	ARG	CD-NE	6.95	1.55	1.46
1	is	190	LEU	CA-CB	6.95	1.64	1.53
1	jf	60	GLY	CA-C	-6.95	1.42	1.51
1	jV	164	TYR	CA-CB	6.95	1.64	1.53
1	29	66	MET	CA-C	-6.95	1.43	1.52
1	48	145	TYR	CA-C	-6.95	1.43	1.52
1	4y	99	PRO	C-N	-6.95	1.23	1.33
1	4A	82	ARG	CA-C	-6.95	1.43	1.52
1	5H	29	GLU	N-CA	-6.95	1.37	1.46
1	8h	159	GLU	C-N	6.95	1.43	1.33
1	aE	145	TYR	CA-CB	6.95	1.65	1.53
1	cd	220	GLY	C-N	6.95	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dJ	27	VAL	CA-C	6.95	1.61	1.52
1	fD	78	ALA	C-N	6.95	1.42	1.33
1	h9	217	ALA	N-CA	-6.95	1.36	1.45
1	hq	120	HIS	ND1-CE1	6.95	1.39	1.32
1	iX	10	MET	CA-C	6.95	1.60	1.52
1	25	12	HIS	C-N	6.95	1.43	1.33
1	lE	99	PRO	CA-C	6.95	1.61	1.52
1	2i	100	ARG	CA-C	-6.95	1.43	1.53
1	33	96	MET	C-O	6.95	1.32	1.23
1	35	120	HIS	ND1-CE1	6.95	1.39	1.32
1	3I	52	LEU	CA-CB	6.95	1.64	1.53
1	47	162	ARG	CA-C	6.95	1.62	1.52
1	4s	11	VAL	N-CA	-6.95	1.38	1.46
1	54	70	LYS	CA-CB	6.95	1.64	1.53
1	6a	186	THR	N-CA	6.95	1.54	1.46
1	8Z	37	ILE	CA-C	6.95	1.60	1.52
1	9l	173	ARG	CA-CB	6.95	1.65	1.53
1	aw	141	ILE	N-CA	-6.95	1.37	1.46
1	bn	87	HIS	CA-C	6.95	1.61	1.52
1	c7	221	VAL	C-N	6.95	1.41	1.33
1	cs	154	ARG	N-CA	6.95	1.54	1.45
1	dJ	4	GLN	C-N	6.95	1.43	1.33
1	1q	5	ASN	CA-CB	6.95	1.64	1.53
1	ex	84	HIS	ND1-CE1	6.95	1.39	1.32
1	gZ	181	VAL	CA-C	-6.94	1.44	1.52
1	hD	108	THR	N-CA	6.94	1.55	1.46
1	2q	84	HIS	N-CA	-6.94	1.39	1.46
1	3u	209	ALA	CA-C	-6.94	1.44	1.52
1	3E	45	GLU	CA-C	6.94	1.61	1.52
1	4a	27	VAL	CA-C	6.94	1.61	1.52
1	59	98	GLU	CA-CB	6.94	1.63	1.53
1	6y	56	LEU	CA-CB	6.94	1.64	1.53
1	8n	155	GLN	CA-C	6.94	1.61	1.52
1	9E	95	GLN	CA-C	-6.94	1.44	1.52
1	aM	171	THR	N-CA	6.94	1.54	1.46
1	c9	111	LEU	CA-C	-6.94	1.43	1.52
1	1i	132	ARG	CA-C	6.94	1.61	1.52
1	fs	226	HIS	CB-CG	6.94	1.59	1.50
1	fz	219	GLN	CA-C	-6.94	1.44	1.52
1	fH	120	HIS	ND1-CE1	6.94	1.39	1.32
1	hN	86	VAL	CA-C	6.94	1.60	1.52
1	hS	37	ILE	CA-CB	-6.94	1.50	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hX	132	ARG	CD-NE	6.94	1.55	1.46
1	ik	120	HIS	CD2-NE2	6.94	1.45	1.37
1	jL	217	ALA	C-O	-6.94	1.15	1.24
1	2X	56	LEU	CA-C	6.94	1.61	1.52
1	3w	154	ARG	CA-CB	6.94	1.66	1.53
1	3B	31	ALA	CA-C	-6.94	1.47	1.53
1	5k	71	GLU	CA-CB	6.94	1.64	1.53
1	8x	123	PRO	C-N	6.94	1.39	1.33
1	9d	179	GLN	CA-CB	6.94	1.64	1.53
1	9D	4	GLN	N-CA	-6.94	1.37	1.46
1	9U	38	PRO	N-CA	6.94	1.56	1.47
1	9X	37	ILE	N-CA	6.94	1.55	1.46
1	ah	32	PHE	C-N	6.94	1.41	1.33
1	14	28	GLU	N-CA	-6.94	1.38	1.46
1	e6	100	ARG	N-CA	6.94	1.54	1.46
1	A	11	VAL	N-CA	6.94	1.54	1.46
1	5	177	ALA	CA-C	6.94	1.62	1.52
1	gc	83	LEU	N-CA	-6.94	1.38	1.46
1	gP	16	SER	CA-C	-6.94	1.44	1.53
1	hD	110	THR	CA-CB	-6.94	1.42	1.53
1	jp	138	LEU	CA-CB	6.94	1.64	1.53
1	48	180	GLU	N-CA	6.94	1.55	1.46
1	4Q	86	VAL	CA-CB	6.94	1.61	1.54
1	5s	1	PRO	C-N	6.94	1.42	1.33
1	5H	114	GLN	C-N	6.94	1.42	1.33
1	63	36	VAL	N-CA	-6.94	1.38	1.46
1	6M	201	ILE	CA-C	-6.94	1.43	1.52
1	7G	206	GLY	CA-C	6.94	1.61	1.51
1	97	172	LEU	CA-CB	6.94	1.62	1.53
1	ah	128	GLU	CA-CB	6.94	1.64	1.53
1	bM	112	GLN	N-CA	-6.94	1.38	1.46
1	ch	23	TRP	N-CA	-6.94	1.38	1.46
1	dQ	120	HIS	ND1-CE1	6.94	1.39	1.32
1	eD	134	ILE	C-N	6.94	1.42	1.33
1	f0	143	ARG	CA-CB	6.94	1.64	1.53
1	S	59	VAL	CA-C	6.94	1.61	1.52
1	gh	129	ILE	CA-C	6.94	1.61	1.52
1	ht	223	GLY	N-CA	6.94	1.54	1.44
1	hG	14	ALA	CA-C	6.94	1.62	1.52
1	lF	201	ILE	CA-CB	-6.94	1.45	1.54
1	3S	133	TRP	CZ2-CH2	6.94	1.50	1.37
1	5x	84	HIS	CD2-NE2	6.94	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ah	202	LEU	CA-C	6.94	1.61	1.52
1	bf	107	THR	CA-C	-6.94	1.44	1.52
1	c5	37	ILE	CA-CB	6.94	1.58	1.54
1	cs	120	HIS	CB-CG	6.94	1.59	1.50
1	et	23	TRP	C-N	6.94	1.42	1.33
1	eH	76	GLU	C-N	6.94	1.42	1.33
1	fg	124	ILE	N-CA	-6.94	1.40	1.46
1	o	71	GLU	N-CA	-6.94	1.38	1.46
1	hb	39	MET	CA-CB	6.94	1.64	1.53
1	i7	199	LYS	CA-CB	6.94	1.64	1.53
1	jH	184	TRP	CA-CB	6.94	1.64	1.53
1	kx	114	GLN	CA-C	-6.94	1.44	1.52
1	kE	77	ALA	N-CA	6.94	1.54	1.46
1	24	112	GLN	CA-C	6.94	1.61	1.52
1	28	12	HIS	ND1-CE1	6.94	1.39	1.32
1	lR	83	LEU	CA-CB	6.94	1.64	1.53
1	2q	24	VAL	CA-C	6.94	1.61	1.52
1	2Q	98	GLU	CA-CB	6.94	1.64	1.53
1	2Y	125	PRO	CA-C	-6.94	1.46	1.53
1	3m	133	TRP	CA-CB	6.94	1.64	1.53
1	56	23	TRP	NE1-CE2	-6.94	1.29	1.37
1	5n	175	GLU	C-O	-6.94	1.15	1.24
1	7t	24	VAL	CA-C	6.94	1.61	1.52
1	7F	136	LEU	CA-C	-6.94	1.44	1.52
1	8h	135	ILE	C-N	6.94	1.43	1.33
1	ak	39	MET	C-N	6.94	1.43	1.33
1	ax	47	ALA	CA-C	-6.94	1.43	1.52
1	aS	174	ALA	N-CA	-6.94	1.38	1.46
1	bl	134	ILE	C-N	6.94	1.42	1.33
1	bm	216	THR	C-N	6.94	1.42	1.33
1	bM	113	GLU	C-N	6.94	1.43	1.33
1	cq	65	ALA	CA-C	6.94	1.61	1.52
1	d0	153	ILE	CA-C	6.94	1.61	1.52
1	eb	156	GLY	N-CA	6.94	1.54	1.44
1	eu	71	GLU	C-N	6.94	1.43	1.33
1	fn	79	GLU	C-N	6.94	1.42	1.33
1	E	135	ILE	CA-C	-6.94	1.44	1.52
1	Q	124	ILE	CA-C	6.94	1.59	1.53
1	5	13	GLN	CA-C	-6.94	1.44	1.52
1	gv	188	THR	CA-C	6.94	1.57	1.52
1	1H	130	TYR	C-O	-6.94	1.15	1.24
1	hj	154	ARG	CD-NE	6.94	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hR	116	GLY	C-N	6.94	1.43	1.33
1	iH	162	ARG	CA-CB	6.94	1.64	1.53
1	j5	130	TYR	C-N	6.94	1.43	1.33
1	jL	221	VAL	CA-CB	6.94	1.61	1.54
1	2I	107	THR	CA-C	-6.94	1.43	1.52
1	6m	105	ALA	C-N	6.94	1.43	1.33
1	6Y	132	ARG	N-CA	-6.94	1.37	1.46
1	8A	9	GLN	CA-CB	6.94	1.61	1.52
1	8M	2	ILE	CA-C	6.94	1.61	1.52
1	bB	131	LYS	CA-C	6.94	1.61	1.52
1	bO	114	GLN	CA-CB	6.94	1.64	1.53
1	eL	99	PRO	N-CD	-6.94	1.38	1.47
1	gM	62	HIS	CE1-NE2	6.93	1.39	1.32
1	hm	77	ALA	N-CA	-6.93	1.38	1.46
1	hC	7	GLN	C-O	6.93	1.33	1.24
1	k7	165	VAL	C-N	6.93	1.42	1.33
1	kz	164	TYR	N-CA	-6.93	1.37	1.46
1	kM	11	VAL	N-CA	-6.93	1.38	1.46
1	le	123	PRO	N-CA	-6.93	1.38	1.47
1	lP	181	VAL	CA-C	-6.93	1.44	1.52
1	3e	128	GLU	N-CA	-6.93	1.38	1.46
1	3W	33	SER	CA-C	6.93	1.60	1.52
1	5G	18	ARG	N-CA	6.93	1.55	1.46
1	5T	54	THR	CB-OG1	-6.93	1.32	1.43
1	6h	203	LYS	CA-C	-6.93	1.43	1.52
1	6F	61	GLY	C-N	6.93	1.43	1.33
1	8h	124	ILE	CA-C	6.93	1.58	1.53
1	8N	195	ASN	CA-CB	6.93	1.63	1.53
1	9n	207	PRO	CA-C	6.93	1.61	1.53
1	bh	225	GLY	N-CA	6.93	1.54	1.45
1	br	87	HIS	C-N	6.93	1.43	1.33
1	bv	74	ASN	N-CA	6.93	1.55	1.46
1	bv	228	ALA	CA-C	6.93	1.61	1.53
1	c4	132	ARG	C-N	6.93	1.43	1.33
1	1g	52	LEU	CA-C	6.93	1.61	1.52
1	dj	61	GLY	N-CA	-6.93	1.36	1.45
1	do	160	PRO	CA-C	6.93	1.62	1.52
1	eM	226	HIS	ND1-CE1	6.93	1.39	1.32
1	eX	116	GLY	CA-C	-6.93	1.44	1.51
1	ff	1	PRO	C-N	6.93	1.42	1.33
1	fi	26	VAL	CA-C	-6.93	1.44	1.52
1	i	219	GLN	N-CA	-6.93	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	220	GLY	CA-C	6.93	1.60	1.51
1	hp	107	THR	N-CA	6.93	1.55	1.46
1	hI	163	ASP	CA-C	-6.93	1.43	1.52
1	k5	205	LEU	CA-C	6.93	1.63	1.52
1	k7	18	ARG	C-O	6.93	1.32	1.24
1	kY	74	ASN	CA-CB	6.93	1.64	1.53
1	l1	117	TRP	CA-CB	6.93	1.64	1.53
1	ll	3	VAL	C-N	6.93	1.43	1.33
1	lO	146	SER	CA-C	-6.93	1.46	1.53
1	39	120	HIS	ND1-CE1	6.93	1.39	1.32
1	3M	6	LEU	C-N	6.93	1.42	1.33
1	4S	97	ARG	CD-NE	6.93	1.55	1.46
1	5u	95	GLN	CA-C	6.93	1.61	1.52
1	6f	203	LYS	N-CA	-6.93	1.38	1.46
1	6l	43	LEU	N-CA	6.93	1.54	1.46
1	6R	40	PHE	C-N	6.93	1.43	1.33
1	7o	26	VAL	N-CA	-6.93	1.38	1.46
1	7r	97	ARG	CA-CB	6.93	1.65	1.53
1	7Z	226	HIS	ND1-CE1	6.93	1.39	1.32
1	ad	29	GLU	N-CA	-6.93	1.38	1.46
1	bl	15	ILE	CA-C	6.93	1.62	1.52
1	bJ	185	MET	CA-CB	6.93	1.64	1.53
1	cR	101	GLY	CA-C	-6.93	1.43	1.51
1	cU	56	LEU	N-CA	-6.93	1.37	1.46
1	da	180	GLU	CA-C	-6.93	1.43	1.52
1	dV	228	ALA	CA-C	-6.93	1.43	1.53
1	ex	12	HIS	ND1-CE1	6.93	1.39	1.32
1	eU	43	LEU	CB-CG	6.93	1.67	1.53
1	fI	214	MET	CA-C	6.93	1.61	1.52
1	g2	153	ILE	N-CA	6.93	1.54	1.46
1	P	86	VAL	CA-CB	-6.93	1.45	1.54
1	h7	208	ALA	N-CA	-6.93	1.37	1.46
1	1K	228	ALA	C-O	-6.93	1.15	1.23
1	hN	101	GLY	CA-C	-6.93	1.44	1.52
1	iI	132	ARG	CD-NE	6.93	1.55	1.46
1	k4	166	ASP	CA-CB	6.93	1.64	1.53
1	kc	68	MET	CA-CB	6.93	1.64	1.53
1	ls	2	ILE	CA-C	-6.93	1.44	1.52
1	4X	198	CYS	N-CA	-6.93	1.38	1.46
1	9V	130	TYR	C-N	6.93	1.43	1.33
1	bg	31	ALA	CA-C	6.93	1.62	1.52
1	bW	221	VAL	C-N	6.93	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bX	56	LEU	CA-C	6.93	1.62	1.52
1	cD	110	THR	CA-C	-6.93	1.44	1.52
1	cQ	226	HIS	C-N	-6.93	1.24	1.33
1	eZ	98	GLU	C-N	6.93	1.42	1.33
1	g0	140	LYS	C-N	6.93	1.42	1.33
1	gv	97	ARG	N-CA	6.93	1.55	1.46
1	hF	138	LEU	C-N	6.93	1.42	1.33
1	j7	12	HIS	CB-CG	6.93	1.59	1.50
1	jo	48	THR	CA-C	6.93	1.61	1.52
1	jx	55	MET	CA-C	6.93	1.61	1.52
1	jU	204	ALA	CA-C	6.93	1.61	1.52
1	2H	154	ARG	CD-NE	6.93	1.55	1.46
1	3k	53	ASN	CA-CB	6.93	1.64	1.53
1	3C	12	HIS	CE1-NE2	6.93	1.39	1.32
1	3F	9	GLN	N-CA	-6.93	1.37	1.45
1	5e	122	PRO	C-N	-6.93	1.25	1.33
1	6n	161	PHE	CA-C	6.93	1.62	1.52
1	6U	101	GLY	CA-C	6.93	1.60	1.51
1	6W	52	LEU	C-N	6.93	1.44	1.33
1	71	10	MET	CA-CB	6.93	1.63	1.53
1	7P	56	LEU	N-CA	6.93	1.54	1.46
1	9G	58	THR	CA-C	6.93	1.62	1.52
1	9K	58	THR	C-N	6.93	1.42	1.33
1	b6	116	GLY	CA-C	-6.93	1.44	1.52
1	dh	124	ILE	N-CA	-6.93	1.41	1.46
1	1n	196	PRO	CA-CB	6.93	1.63	1.53
1	e9	202	LEU	CA-CB	6.93	1.64	1.53
1	eC	100	ARG	CZ-NH2	-6.93	1.24	1.33
1	eT	80	TRP	CA-CB	6.93	1.64	1.53
1	fj	133	TRP	CA-C	-6.93	1.44	1.52
1	fA	72	THR	N-CA	6.93	1.54	1.46
1	g	92	GLU	CA-CB	6.93	1.64	1.53
1	w	92	GLU	CA-C	-6.93	1.45	1.53
1	h7	25	LYS	N-CA	-6.93	1.38	1.46
1	26	125	PRO	N-CA	-6.93	1.41	1.47
1	3r	178	SER	CA-C	6.93	1.61	1.52
1	4T	146	SER	C-N	6.93	1.42	1.34
1	8J	12	HIS	ND1-CE1	6.93	1.39	1.32
1	8L	89	GLY	C-N	6.93	1.42	1.33
1	aq	143	ARG	CA-C	6.93	1.62	1.52
1	bZ	194	ALA	CA-C	6.93	1.62	1.53
1	ca	152	ASP	C-N	6.93	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	db	33	SER	N-CA	-6.93	1.41	1.46
1	ef	213	GLU	CA-C	6.93	1.62	1.52
1	k	213	GLU	CA-C	-6.93	1.43	1.52
1	B	229	ARG	CA-CB	6.93	1.64	1.53
1	gF	12	HIS	ND1-CE1	6.93	1.39	1.32
1	gM	35	GLU	C-N	6.93	1.41	1.33
1	hu	37	ILE	CA-CB	6.93	1.58	1.54
1	1M	222	GLY	CA-C	6.93	1.59	1.52
1	i9	4	GLN	CA-CB	6.93	1.61	1.52
1	iZ	70	LYS	CA-CB	6.93	1.64	1.53
1	jq	84	HIS	CD2-NE2	6.93	1.45	1.37
1	js	108	THR	CA-C	-6.93	1.43	1.52
1	k5	41	SER	N-CA	6.93	1.54	1.46
1	ku	111	LEU	CA-CB	6.93	1.64	1.53
1	l3	133	TRP	CA-CB	6.93	1.64	1.53
1	ll	92	GLU	CA-C	-6.93	1.46	1.52
1	lB	226	HIS	CG-CD2	6.93	1.43	1.35
1	2j	14	ALA	CA-C	6.93	1.61	1.52
1	3o	69	LEU	N-CA	6.93	1.54	1.46
1	3S	117	TRP	N-CA	6.93	1.54	1.46
1	59	92	GLU	N-CA	6.93	1.52	1.46
1	5V	124	ILE	CA-C	-6.93	1.47	1.53
1	9a	159	GLU	CA-C	6.93	1.61	1.52
1	9m	165	VAL	CA-CB	-6.93	1.45	1.54
1	c4	120	HIS	CB-CG	-6.93	1.40	1.50
1	cy	134	ILE	C-N	6.93	1.42	1.33
1	dO	199	LYS	N-CA	6.93	1.54	1.46
1	f8	92	GLU	CA-CB	6.93	1.64	1.53
1	fC	218	CYS	N-CA	6.93	1.55	1.46
1	fD	89	GLY	CA-C	-6.93	1.42	1.51
1	fT	105	ALA	N-CA	-6.93	1.36	1.46
1	hg	226	HIS	ND1-CE1	6.92	1.39	1.32
1	iS	125	PRO	CA-C	6.92	1.62	1.52
1	jG	142	VAL	CA-C	6.92	1.61	1.52
1	kk	125	PRO	C-N	6.92	1.42	1.33
1	km	92	GLU	CA-C	6.92	1.61	1.53
1	kw	221	VAL	CA-C	6.92	1.60	1.52
1	l7	100	ARG	CD-NE	6.92	1.55	1.46
1	lr	128	GLU	C-N	6.92	1.42	1.33
1	lE	37	ILE	N-CA	-6.92	1.38	1.46
1	lE	45	GLU	CA-CB	6.92	1.61	1.53
1	lM	132	ARG	CD-NE	6.92	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	68	185	MET	CA-C	-6.92	1.43	1.52
1	8T	144	MET	CA-C	6.92	1.61	1.52
1	12	100	ARG	CD-NE	6.92	1.55	1.46
1	bd	114	GLN	N-CA	6.92	1.54	1.46
1	bE	209	ALA	CA-C	6.92	1.61	1.52
1	fc	85	PRO	CA-CB	6.92	1.62	1.53
1	fv	205	LEU	CA-C	6.92	1.62	1.52
1	gC	183	ASN	CA-C	6.92	1.61	1.52
1	h2	20	LEU	CA-C	6.92	1.61	1.52
1	hf	149	SER	CA-C	-6.92	1.44	1.52
1	iK	6	LEU	CA-C	6.92	1.59	1.52
1	4p	102	SER	N-CA	-6.92	1.38	1.46
1	5c	171	THR	C-N	-6.92	1.24	1.34
1	gf	67	GLN	N-CA	6.92	1.54	1.46
1	gt	76	GLU	CA-C	6.92	1.61	1.52
1	j3	224	PRO	CA-CB	6.92	1.62	1.53
1	jf	125	PRO	N-CA	-6.92	1.36	1.48
1	1Y	97	ARG	CA-C	6.92	1.60	1.52
1	jQ	93	PRO	CA-C	-6.92	1.44	1.52
1	ku	83	LEU	CA-C	6.92	1.61	1.52
1	lb	108	THR	CA-C	6.92	1.61	1.52
1	lg	125	PRO	CA-C	6.92	1.58	1.53
1	lo	206	GLY	C-N	6.92	1.39	1.33
1	2m	136	LEU	CA-C	6.92	1.61	1.52
1	2F	162	ARG	NE-CZ	-6.92	1.25	1.33
1	3m	154	ARG	N-CA	-6.92	1.36	1.45
1	3L	33	SER	CA-C	6.92	1.61	1.52
1	3P	192	GLN	CA-CB	6.92	1.64	1.53
1	3Q	147	PRO	CA-C	-6.92	1.44	1.52
1	3T	158	LYS	CA-C	-6.92	1.44	1.52
1	4r	67	GLN	CA-C	-6.92	1.44	1.52
1	4C	32	PHE	N-CA	-6.92	1.37	1.46
1	4E	12	HIS	ND1-CE1	6.92	1.39	1.32
1	50	67	GLN	CA-CB	6.92	1.64	1.53
1	5P	69	LEU	N-CA	-6.92	1.38	1.46
1	6A	7	GLN	C-N	6.92	1.42	1.33
1	6X	10	MET	C-N	6.92	1.42	1.33
1	7g	62	HIS	CG-CD2	6.92	1.43	1.35
1	7q	164	TYR	CA-C	-6.92	1.43	1.52
1	7r	231	LEU	CA-CB	6.92	1.67	1.53
1	85	120	HIS	CA-C	6.92	1.62	1.52
1	8j	139	ASN	N-CA	6.92	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8L	81	ASP	CA-CB	6.92	1.64	1.53
1	aL	97	ARG	CZ-NH2	-6.92	1.24	1.33
1	17	195	ASN	CA-C	6.92	1.60	1.53
1	bO	195	ASN	CA-CB	6.92	1.63	1.53
1	eY	183	ASN	CA-C	-6.92	1.44	1.52
1	M	12	HIS	CA-C	6.92	1.61	1.52
1	iH	100	ARG	CD-NE	6.92	1.55	1.46
1	j0	168	PHE	CA-C	6.92	1.61	1.52
1	jD	91	ILE	CA-CB	6.92	1.61	1.54
1	43	18	ARG	C-N	6.92	1.42	1.33
1	57	120	HIS	CE1-NE2	-6.92	1.25	1.32
1	78	62	HIS	N-CA	-6.92	1.36	1.46
1	7k	169	TYR	CA-C	-6.92	1.43	1.52
1	8H	175	GLU	CA-CB	6.92	1.65	1.53
1	cD	87	HIS	CG-ND1	-6.92	1.30	1.38
1	fq	19	THR	N-CA	6.92	1.54	1.46
1	L	134	ILE	CA-CB	-6.92	1.45	1.54
1	gm	2	ILE	CA-CB	6.92	1.62	1.54
1	h2	44	SER	C-N	6.92	1.43	1.33
1	hh	220	GLY	N-CA	6.92	1.52	1.45
1	hu	139	ASN	C-N	6.92	1.42	1.33
1	hY	149	SER	N-CA	6.92	1.55	1.46
1	iq	15	ILE	CA-CB	-6.92	1.47	1.54
1	iv	154	ARG	CD-NE	6.92	1.55	1.46
1	j1	97	ARG	CA-CB	6.92	1.64	1.53
1	j7	81	ASP	CA-C	6.92	1.62	1.52
1	k3	19	THR	N-CA	6.92	1.54	1.46
1	kd	88	ALA	CA-CB	6.92	1.65	1.53
1	kE	74	ASN	CA-C	6.92	1.61	1.52
1	kW	21	ASN	C-N	6.92	1.42	1.33
1	lc	41	SER	CA-C	-6.92	1.44	1.52
1	3B	125	PRO	CA-CB	6.92	1.57	1.53
1	3N	219	GLN	C-N	6.92	1.41	1.33
1	4G	226	HIS	CA-C	6.92	1.61	1.52
1	6a	5	ASN	C-N	6.92	1.38	1.33
1	6t	92	GLU	C-N	-6.92	1.24	1.33
1	8I	84	HIS	CG-ND1	6.92	1.45	1.38
1	8M	12	HIS	ND1-CE1	6.92	1.39	1.32
1	9a	18	ARG	CD-NE	6.92	1.55	1.46
1	9f	123	PRO	C-N	6.92	1.39	1.33
1	9Q	118	MET	CA-CB	6.92	1.64	1.53
1	aa	137	GLY	CA-C	-6.92	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ar	154	ARG	CZ-NH2	-6.92	1.24	1.33
1	az	88	ALA	CA-CB	6.92	1.61	1.53
1	bn	102	SER	C-N	6.92	1.43	1.33
1	bH	153	ILE	CA-CB	-6.92	1.45	1.54
1	bR	42	ALA	C-N	6.92	1.43	1.33
1	d0	124	ILE	N-CA	-6.92	1.41	1.46
1	dC	87	HIS	CG-ND1	-6.92	1.30	1.38
1	e2	94	GLY	CA-C	-6.92	1.42	1.51
1	eD	123	PRO	CA-C	6.92	1.60	1.52
1	fa	181	VAL	N-CA	6.92	1.54	1.46
1	fv	219	GLN	N-CA	-6.92	1.37	1.46
1	fX	78	ALA	C-N	6.92	1.43	1.33
1	k8	131	LYS	CA-C	6.92	1.61	1.52
1	2a	91	ILE	CA-CB	6.92	1.63	1.54
1	2I	187	GLU	N-CA	6.92	1.54	1.46
1	7k	145	TYR	CA-C	6.92	1.61	1.52
1	7r	145	TYR	CA-CB	6.92	1.63	1.53
1	8i	5	ASN	CA-C	-6.92	1.44	1.53
1	8C	181	VAL	C-N	6.92	1.43	1.33
1	8X	39	MET	CA-C	-6.92	1.43	1.52
1	97	95	GLN	CA-CB	6.92	1.64	1.53
1	aS	2	ILE	CA-CB	6.92	1.62	1.54
1	bI	52	LEU	CA-C	6.92	1.61	1.52
1	c8	112	GLN	CA-CB	6.92	1.64	1.53
1	c9	229	ARG	CD-NE	6.92	1.55	1.46
1	ct	80	TRP	CA-C	6.92	1.61	1.52
1	d2	201	ILE	C-O	-6.92	1.16	1.24
1	e5	120	HIS	CB-CG	6.92	1.59	1.50
1	en	95	GLN	CA-C	-6.92	1.44	1.52
1	fp	150	ILE	N-CA	6.92	1.54	1.46
1	hn	83	LEU	CA-CB	6.92	1.64	1.53
1	ie	6	LEU	CA-CB	6.92	1.64	1.53
1	iF	50	GLN	CA-CB	6.92	1.64	1.53
1	jO	75	GLU	C-N	6.92	1.42	1.33
1	6k	89	GLY	CA-C	6.92	1.61	1.51
1	ai	159	GLU	C-N	6.92	1.43	1.33
1	bU	77	ALA	C-N	6.92	1.43	1.33
1	cR	173	ARG	CA-CB	6.92	1.64	1.53
1	6	120	HIS	CD2-NE2	6.92	1.45	1.37
1	gb	30	LYS	C-O	6.91	1.32	1.24
1	gW	123	PRO	CA-CB	6.91	1.63	1.53
1	ho	106	GLY	CA-C	-6.91	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hD	226	HIS	ND1-CE1	6.91	1.39	1.32
1	iK	9	GLN	CA-CB	6.91	1.58	1.53
1	jm	128	GLU	C-N	6.91	1.42	1.33
1	jY	181	VAL	N-CA	6.91	1.54	1.46
1	l9	65	ALA	N-CA	-6.91	1.38	1.46
1	27	186	THR	C-O	6.91	1.32	1.24
1	lL	127	GLY	C-O	-6.91	1.15	1.23
1	2a	149	SER	N-CA	-6.91	1.37	1.46
1	lR	138	LEU	C-O	-6.91	1.15	1.24
1	3t	40	PHE	CA-C	-6.91	1.43	1.52
1	3x	95	GLN	CA-C	-6.91	1.44	1.52
1	5Y	146	SER	C-N	-6.91	1.25	1.33
1	7j	62	HIS	CD2-NE2	6.91	1.45	1.37
1	8s	1	PRO	N-CD	6.91	1.57	1.47
1	9q	52	LEU	CA-C	6.91	1.61	1.52
1	a0	192	GLN	CA-C	6.91	1.62	1.52
1	cv	212	GLU	CA-C	6.91	1.61	1.52
1	d1	12	HIS	CD2-NE2	6.91	1.45	1.37
1	dk	116	GLY	CA-C	-6.91	1.44	1.52
1	dU	129	ILE	N-CA	-6.91	1.38	1.46
1	1p	121	ASN	CA-C	6.91	1.58	1.52
1	eC	60	GLY	CA-C	-6.91	1.43	1.51
1	fR	195	ASN	N-CA	6.91	1.55	1.45
1	fU	106	GLY	CA-C	-6.91	1.44	1.51
1	1	9	GLN	CA-C	-6.91	1.44	1.52
1	5	2	ILE	CA-C	6.91	1.61	1.52
1	h7	112	GLN	CA-CB	6.91	1.64	1.53
1	hz	103	ASP	N-CA	-6.91	1.37	1.46
1	ib	184	TRP	NE1-CE2	6.91	1.45	1.37
1	ja	120	HIS	N-CA	6.91	1.54	1.46
1	li	37	ILE	C-N	6.91	1.42	1.34
1	44	132	ARG	CD-NE	6.91	1.55	1.46
1	4D	105	ALA	N-CA	-6.91	1.36	1.46
1	5s	24	VAL	N-CA	6.91	1.54	1.46
1	7M	149	SER	CA-CB	6.91	1.63	1.53
1	13	221	VAL	C-N	6.91	1.44	1.33
1	aX	121	ASN	N-CA	-6.91	1.39	1.46
1	1h	54	THR	N-CA	6.91	1.54	1.46
1	fz	189	LEU	N-CA	6.91	1.54	1.46
1	g3	129	ILE	CA-CB	6.91	1.62	1.54
1	gC	104	ILE	CB-CG1	6.91	1.67	1.53
1	hZ	136	LEU	C-N	6.91	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i0	183	ASN	CA-C	-6.91	1.43	1.52
1	k3	18	ARG	CD-NE	6.91	1.55	1.46
1	l3	28	GLU	CA-CB	6.91	1.64	1.53
1	l4	33	SER	C-N	6.91	1.42	1.34
1	31	29	GLU	CA-C	6.91	1.62	1.52
1	3e	1	PRO	N-CA	6.91	1.57	1.47
1	51	104	ILE	CA-C	6.91	1.61	1.52
1	5Z	218	CYS	CA-C	6.91	1.62	1.52
1	6b	201	ILE	CA-CB	6.91	1.62	1.54
1	6k	104	ILE	CA-CB	-6.91	1.46	1.54
1	88	67	GLN	CA-CB	6.91	1.64	1.53
1	8t	120	HIS	CE1-NE2	6.91	1.39	1.32
1	aw	147	PRO	N-CA	6.91	1.55	1.47
1	aL	173	ARG	CD-NE	6.91	1.55	1.46
1	cf	87	HIS	CD2-NE2	6.91	1.45	1.37
1	1o	212	GLU	C-N	6.91	1.43	1.33
1	en	212	GLU	CA-CB	6.91	1.64	1.53
1	fE	44	SER	CA-CB	6.91	1.64	1.53
1	gU	172	LEU	CA-C	6.91	1.61	1.52
1	il	173	ARG	C-N	6.91	1.44	1.33
1	k9	84	HIS	ND1-CE1	6.91	1.39	1.32
1	kv	226	HIS	ND1-CE1	6.91	1.39	1.32
1	kx	123	PRO	CA-C	-6.91	1.45	1.52
1	2u	189	LEU	CA-CB	6.91	1.64	1.53
1	2Z	59	VAL	C-O	-6.91	1.16	1.24
1	3j	164	TYR	CA-CB	6.91	1.64	1.53
1	3k	100	ARG	NE-CZ	6.91	1.40	1.33
1	42	21	ASN	CA-C	6.91	1.61	1.52
1	4s	217	ALA	N-CA	-6.91	1.36	1.45
1	53	112	GLN	CA-C	6.91	1.61	1.52
1	5d	153	ILE	C-O	-6.91	1.16	1.24
1	5V	16	SER	N-CA	6.91	1.55	1.45
1	61	134	ILE	CA-CB	-6.91	1.46	1.54
1	6p	184	TRP	CA-CB	6.91	1.64	1.53
1	6C	125	PRO	C-N	6.91	1.42	1.34
1	7F	55	MET	N-CA	6.91	1.54	1.46
1	95	95	GLN	CA-CB	6.91	1.64	1.53
1	a5	57	ASN	CA-C	6.91	1.62	1.52
1	ax	229	ARG	CA-C	6.91	1.61	1.52
1	bs	21	ASN	N-CA	6.91	1.54	1.46
1	c3	132	ARG	CA-CB	6.91	1.64	1.53
1	c6	218	CYS	CA-C	-6.91	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1d	120	HIS	ND1-CE1	6.91	1.39	1.32
1	cF	53	ASN	N-CA	-6.91	1.38	1.46
1	d3	196	PRO	C-N	6.91	1.43	1.33
1	dw	224	PRO	C-N	6.91	1.43	1.34
1	ep	196	PRO	CA-C	6.91	1.62	1.52
1	fr	158	LYS	CA-C	-6.91	1.44	1.52
1	ih	222	GLY	N-CA	6.91	1.52	1.45
1	lP	87	HIS	ND1-CE1	6.91	1.39	1.32
1	35	64	ALA	N-CA	6.91	1.54	1.46
1	3t	47	ALA	CA-C	6.91	1.61	1.52
1	3u	67	GLN	CA-C	-6.91	1.43	1.52
1	70	70	LYS	CA-C	6.91	1.61	1.52
1	8c	125	PRO	CA-CB	6.91	1.63	1.53
1	bm	52	LEU	CA-C	6.91	1.62	1.52
1	ck	178	SER	C-O	-6.91	1.15	1.23
1	fa	37	ILE	CA-CB	6.91	1.58	1.53
1	fH	117	TRP	NE1-CE2	6.91	1.45	1.37
1	fI	84	HIS	N-CA	-6.91	1.39	1.46
1	n	195	ASN	N-CA	6.91	1.54	1.46
1	J	170	LYS	C-O	-6.91	1.16	1.24
1	j8	183	ASN	CA-C	-6.91	1.43	1.52
1	kF	155	GLN	CA-C	6.91	1.61	1.52
1	kL	35	GLU	CA-C	6.91	1.62	1.52
1	2N	133	TRP	CA-CB	6.91	1.64	1.53
1	3K	6	LEU	C-N	6.91	1.42	1.33
1	4F	87	HIS	ND1-CE1	6.91	1.39	1.32
1	6s	160	PRO	N-CA	6.91	1.56	1.47
1	7a	92	GLU	CA-C	6.91	1.60	1.53
1	7T	37	ILE	N-CA	6.91	1.55	1.46
1	8d	4	GLN	CA-CB	6.91	1.65	1.53
1	9u	5	ASN	C-N	6.91	1.42	1.33
1	9C	178	SER	CA-C	6.91	1.62	1.53
1	cA	143	ARG	CD-NE	6.91	1.55	1.46
1	f3	81	ASP	N-CA	6.91	1.54	1.46
1	g7	3	VAL	CA-C	6.91	1.60	1.52
1	3	215	MET	CA-CB	6.91	1.64	1.53
1	M	107	THR	N-CA	6.91	1.54	1.46
1	hu	72	THR	C-O	-6.90	1.15	1.24
1	lB	122	PRO	CA-C	6.90	1.58	1.52
1	5f	65	ALA	CA-C	-6.90	1.44	1.52
1	5V	180	GLU	CA-CB	6.90	1.64	1.53
1	bt	221	VAL	CA-CB	-6.90	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f9	20	LEU	CA-CB	6.90	1.64	1.53
1	fa	91	ILE	CB-CG1	6.90	1.67	1.53
1	C	16	SER	CA-CB	6.90	1.64	1.53
1	U	15	ILE	CA-C	6.90	1.60	1.52
1	h0	20	LEU	N-CA	-6.90	1.37	1.46
1	ij	51	ASP	CA-CB	6.90	1.64	1.53
1	j8	152	ASP	CA-CB	6.90	1.62	1.53
1	jH	132	ARG	C-N	6.90	1.42	1.33
1	kJ	100	ARG	CD-NE	6.90	1.55	1.46
1	lC	27	VAL	CA-C	6.90	1.61	1.52
1	4b	37	ILE	CA-CB	-6.90	1.49	1.53
1	5i	112	GLN	CA-CB	6.90	1.64	1.53
1	6a	43	LEU	C-N	6.90	1.42	1.33
1	6H	223	GLY	CA-C	-6.90	1.42	1.51
1	73	217	ALA	CA-CB	6.90	1.63	1.53
1	7r	164	TYR	N-CA	-6.90	1.38	1.46
1	7y	63	GLN	C-N	-6.90	1.24	1.33
1	85	18	ARG	C-N	6.90	1.42	1.33
1	8G	107	THR	CA-C	-6.90	1.44	1.53
1	9I	28	GLU	CA-CB	6.90	1.64	1.53
1	ay	89	GLY	N-CA	6.90	1.54	1.44
1	cP	177	ALA	N-CA	-6.90	1.37	1.45
1	cW	145	TYR	CA-CB	6.90	1.63	1.53
1	d5	223	GLY	C-N	-6.90	1.25	1.33
1	dS	33	SER	N-CA	6.90	1.52	1.45
1	fm	60	GLY	C-N	6.90	1.40	1.33
1	B	5	ASN	CA-C	-6.90	1.44	1.52
1	jb	44	SER	N-CA	-6.90	1.38	1.46
1	k3	26	VAL	CA-CB	-6.90	1.45	1.54
1	lx	195	ASN	C-N	6.90	1.43	1.34
1	lQ	87	HIS	CA-C	-6.90	1.43	1.52
1	2B	192	GLN	CA-CB	6.90	1.64	1.53
1	3d	161	PHE	CA-C	6.90	1.61	1.52
1	3V	72	THR	N-CA	6.90	1.54	1.46
1	3W	106	GLY	CA-C	-6.90	1.41	1.51
1	4a	217	ALA	CA-C	6.90	1.62	1.53
1	4o	64	ALA	CA-C	6.90	1.61	1.52
1	5k	187	GLU	N-CA	6.90	1.55	1.46
1	7c	142	VAL	N-CA	6.90	1.54	1.46
1	7m	181	VAL	CA-C	-6.90	1.43	1.52
1	7C	169	TYR	N-CA	-6.90	1.38	1.46
1	7S	205	LEU	CA-CB	6.90	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	80	65	ALA	N-CA	-6.90	1.38	1.46
1	9u	98	GLU	CA-C	6.90	1.60	1.53
1	9L	24	VAL	C-N	6.90	1.43	1.33
1	9Q	18	ARG	CD-NE	6.90	1.55	1.46
1	aq	84	HIS	ND1-CE1	6.90	1.39	1.32
1	b7	90	PRO	CA-CB	6.90	1.63	1.53
1	bT	162	ARG	CA-C	6.90	1.61	1.52
1	1b	32	PHE	CA-C	-6.90	1.44	1.52
1	bW	226	HIS	CA-C	-6.90	1.46	1.53
1	bY	45	GLU	CA-C	6.90	1.61	1.52
1	dF	84	HIS	CG-CD2	6.90	1.43	1.35
1	dJ	93	PRO	CA-C	6.90	1.60	1.52
1	e0	227	LYS	C-N	6.90	1.43	1.33
1	eP	3	VAL	CA-C	-6.90	1.44	1.52
1	fY	3	VAL	CA-CB	6.90	1.62	1.54
1	gj	41	SER	N-CA	-6.90	1.38	1.46
1	iS	132	ARG	CD-NE	6.90	1.55	1.46
1	kQ	72	THR	C-N	6.90	1.42	1.33
1	3b	173	ARG	CD-NE	6.90	1.55	1.46
1	3s	77	ALA	CA-C	6.90	1.61	1.52
1	4n	84	HIS	C-O	-6.90	1.19	1.25
1	4x	9	GLN	CA-CB	6.90	1.63	1.53
1	5W	191	VAL	C-N	6.90	1.43	1.33
1	6p	186	THR	CA-CB	6.90	1.64	1.53
1	6X	120	HIS	CA-C	6.90	1.62	1.52
1	7Y	47	ALA	N-CA	6.90	1.54	1.45
1	a4	133	TRP	C-N	6.90	1.42	1.33
1	az	56	LEU	CA-CB	6.90	1.64	1.53
1	aO	198	CYS	CA-C	-6.90	1.43	1.52
1	aO	225	GLY	C-N	6.90	1.42	1.33
1	bc	170	LYS	CA-CB	6.90	1.64	1.53
1	cM	30	LYS	CA-CB	6.90	1.65	1.53
1	fs	202	LEU	CA-C	-6.90	1.43	1.52
1	gk	115	ILE	CA-C	6.90	1.62	1.52
1	gH	72	THR	CA-C	-6.90	1.44	1.52
1	1G	76	GLU	CA-C	6.90	1.61	1.52
1	in	58	THR	C-N	6.90	1.41	1.33
1	iy	79	GLU	CA-C	6.90	1.61	1.52
1	jv	6	LEU	C-N	6.90	1.42	1.33
1	kH	42	ALA	CA-CB	6.90	1.64	1.53
1	kJ	132	ARG	CA-C	-6.90	1.43	1.52
1	kM	134	ILE	CA-C	-6.90	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2j	64	ALA	C-N	6.90	1.42	1.33
1	4l	173	ARG	CA-CB	6.90	1.64	1.53
1	6b	60	GLY	CA-C	-6.90	1.42	1.51
1	6U	86	VAL	CA-CB	-6.90	1.47	1.54
1	7N	226	HIS	ND1-CE1	6.90	1.39	1.32
1	7R	124	ILE	CA-C	6.90	1.58	1.53
1	8B	64	ALA	CA-C	-6.90	1.44	1.52
1	9x	19	THR	N-CA	6.90	1.54	1.46
1	ap	222	GLY	N-CA	6.90	1.51	1.44
1	aq	220	GLY	C-N	-6.90	1.26	1.34
1	aT	182	LYS	N-CA	6.90	1.54	1.46
1	c6	192	GLN	C-N	6.90	1.42	1.33
1	cd	187	GLU	N-CA	6.90	1.54	1.46
1	dd	4	GLN	N-CA	-6.90	1.37	1.46
1	e8	103	ASP	CA-CB	6.90	1.64	1.53
1	ew	188	THR	CA-C	-6.90	1.44	1.52
1	1s	223	GLY	C-N	-6.90	1.26	1.34
1	fg	147	PRO	N-CA	-6.90	1.38	1.47
1	fO	50	GLN	CA-CB	6.90	1.64	1.53
1	hL	166	ASP	CA-CB	6.90	1.64	1.53
1	jE	121	ASN	CA-C	6.90	1.58	1.52
1	3f	30	LYS	C-N	6.90	1.43	1.33
1	6h	25	LYS	CA-CB	6.90	1.64	1.53
1	7i	20	LEU	CA-CB	6.90	1.64	1.53
1	94	176	GLN	CA-C	-6.90	1.44	1.52
1	18	97	ARG	CA-C	-6.90	1.44	1.52
1	bI	91	ILE	C-O	6.90	1.30	1.24
1	ci	196	PRO	CA-CB	-6.90	1.44	1.53
1	cO	174	ALA	C-N	6.90	1.42	1.33
1	1k	212	GLU	CA-C	6.90	1.62	1.52
1	eC	87	HIS	CG-ND1	-6.90	1.30	1.38
1	hm	176	GLN	CA-CB	6.89	1.64	1.53
1	jc	131	LYS	N-CA	6.89	1.54	1.46
1	jN	30	LYS	CA-CB	6.89	1.65	1.54
1	km	159	GLU	CA-C	6.89	1.60	1.52
1	li	121	ASN	CA-C	6.89	1.60	1.52
1	lx	20	LEU	N-CA	-6.89	1.38	1.46
1	2T	89	GLY	C-N	-6.89	1.25	1.33
1	4x	23	TRP	CA-CB	6.89	1.64	1.53
1	6d	26	VAL	N-CA	6.89	1.54	1.46
1	6j	191	VAL	CA-CB	-6.89	1.45	1.54
1	81	183	ASN	CA-C	6.89	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8E	212	GLU	N-CA	6.89	1.54	1.46
1	9n	113	GLU	C-N	6.89	1.43	1.33
1	9p	57	ASN	CA-CB	6.89	1.64	1.53
1	9B	38	PRO	C-N	6.89	1.42	1.33
1	aM	15	ILE	CA-C	6.89	1.60	1.52
1	aO	12	HIS	C-O	-6.89	1.15	1.23
1	b6	40	PHE	CA-CB	6.89	1.64	1.53
1	c8	120	HIS	ND1-CE1	6.89	1.39	1.32
1	dw	175	GLU	CA-C	6.89	1.61	1.52
1	fe	138	LEU	CA-CB	6.89	1.64	1.53
1	gY	136	LEU	C-N	6.89	1.43	1.33
1	jE	152	ASP	CA-C	-6.89	1.42	1.52
1	jM	202	LEU	CA-CB	6.89	1.64	1.53
1	kj	36	VAL	C-N	6.89	1.41	1.33
1	kz	12	HIS	ND1-CE1	6.89	1.39	1.32
1	kJ	100	ARG	CA-C	-6.89	1.43	1.52
1	37	31	ALA	CA-C	6.89	1.62	1.52
1	3m	67	GLN	CA-C	6.89	1.61	1.52
1	3s	138	LEU	CA-C	6.89	1.62	1.52
1	3G	29	GLU	CA-C	6.89	1.62	1.52
1	6a	36	VAL	C-N	6.89	1.41	1.33
1	6I	87	HIS	C-N	6.89	1.42	1.33
1	6T	142	VAL	CA-CB	-6.89	1.46	1.54
1	6V	118	MET	CA-CB	6.89	1.64	1.53
1	90	98	GLU	CA-CB	6.89	1.65	1.53
1	9d	18	ARG	C-O	-6.89	1.16	1.24
1	9d	173	ARG	N-CA	-6.89	1.37	1.46
1	9L	62	HIS	CE1-NE2	6.89	1.39	1.32
1	Y	174	ALA	C-N	6.89	1.42	1.33
1	a5	87	HIS	CE1-NE2	6.89	1.39	1.32
1	bf	10	MET	CA-C	6.89	1.61	1.52
1	bT	128	GLU	CA-C	-6.89	1.44	1.52
1	cI	83	LEU	C-N	6.89	1.39	1.33
1	cO	181	VAL	CA-CB	-6.89	1.45	1.54
1	ef	19	THR	N-CA	6.89	1.54	1.46
1	eE	126	VAL	N-CA	6.89	1.54	1.46
1	fk	94	GLY	CA-C	-6.89	1.43	1.52
1	fC	21	ASN	CA-C	6.89	1.61	1.52
1	fJ	123	PRO	C-N	6.89	1.39	1.33
1	h	104	ILE	CA-C	6.89	1.62	1.52
1	t	138	LEU	N-CA	6.89	1.55	1.46
1	j9	98	GLU	CA-CB	6.89	1.65	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jy	5	ASN	N-CA	6.89	1.55	1.46
1	4y	27	VAL	N-CA	6.89	1.55	1.46
1	4J	115	ILE	CA-C	6.89	1.62	1.52
1	52	32	PHE	CA-CB	6.89	1.62	1.53
1	8g	56	LEU	CA-C	6.89	1.61	1.52
1	8R	124	ILE	CA-C	6.89	1.58	1.52
1	en	62	HIS	CE1-NE2	6.89	1.39	1.32
1	es	129	ILE	CA-CB	6.89	1.62	1.54
1	3	132	ARG	CD-NE	6.89	1.55	1.46
1	gz	124	ILE	N-CA	-6.89	1.40	1.46
1	gM	130	TYR	CA-C	6.89	1.61	1.52
1	h5	140	LYS	CA-C	6.89	1.61	1.52
1	i4	84	HIS	C-N	6.89	1.42	1.33
1	jh	25	LYS	N-CA	6.89	1.54	1.46
1	jz	6	LEU	C-N	-6.89	1.25	1.33
1	jV	96	MET	C-N	6.89	1.43	1.33
1	kQ	74	ASN	N-CA	6.89	1.54	1.46
1	kX	219	GLN	CA-CB	6.89	1.63	1.53
1	ly	191	VAL	N-CA	-6.89	1.38	1.46
1	2m	84	HIS	ND1-CE1	6.89	1.39	1.32
1	2r	129	ILE	CA-CB	-6.89	1.45	1.54
1	3h	224	PRO	CA-C	-6.89	1.44	1.52
1	60	134	ILE	N-CA	6.89	1.54	1.46
1	6r	223	GLY	C-N	6.89	1.41	1.34
1	9g	64	ALA	C-N	6.89	1.42	1.33
1	9j	107	THR	N-CA	6.89	1.54	1.46
1	9Y	37	ILE	C-N	6.89	1.42	1.34
1	a2	227	LYS	N-CA	-6.89	1.37	1.46
1	aq	187	GLU	CA-C	-6.89	1.44	1.52
1	b2	230	VAL	CA-C	6.89	1.61	1.52
1	bZ	154	ARG	C-N	6.89	1.42	1.33
1	ca	129	ILE	CA-CB	6.89	1.63	1.54
1	ef	42	ALA	N-CA	6.89	1.54	1.46
1	fD	55	MET	C-N	6.89	1.43	1.34
1	1	84	HIS	CG-ND1	6.89	1.45	1.38
1	q	156	GLY	C-N	-6.89	1.27	1.33
1	s	214	MET	N-CA	-6.89	1.38	1.46
1	2	138	LEU	CA-CB	6.89	1.64	1.53
1	ja	123	PRO	N-CD	-6.89	1.38	1.47
1	jf	213	GLU	CA-CB	6.89	1.64	1.53
1	1W	206	GLY	N-CA	6.89	1.54	1.44
1	lk	23	TRP	CA-CB	6.89	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lu	63	GLN	CA-CB	6.89	1.64	1.53
1	3E	9	GLN	CA-CB	6.89	1.62	1.52
1	4C	9	GLN	N-CA	-6.89	1.37	1.46
1	6C	184	TRP	NE1-CE2	-6.89	1.29	1.37
1	ax	109	SER	CA-CB	6.89	1.63	1.53
1	dL	84	HIS	CE1-NE2	-6.89	1.25	1.32
1	dL	188	THR	CA-C	-6.89	1.43	1.52
1	dO	80	TRP	C-N	6.89	1.43	1.34
1	W	207	PRO	N-CA	-6.89	1.38	1.47
1	gt	171	THR	CA-C	6.89	1.61	1.52
1	gL	211	LEU	CA-C	-6.89	1.43	1.52
1	gV	67	GLN	CA-C	6.89	1.61	1.52
1	hp	45	GLU	C-N	6.89	1.43	1.33
1	hx	50	GLN	CA-CB	6.89	1.64	1.53
1	hI	75	GLU	N-CA	6.89	1.54	1.46
1	hK	154	ARG	NE-CZ	6.89	1.40	1.33
1	i0	87	HIS	CA-C	6.89	1.61	1.52
1	1P	230	VAL	CA-CB	-6.89	1.47	1.54
1	jL	46	GLY	CA-C	6.89	1.61	1.51
1	2n	22	ALA	N-CA	-6.89	1.38	1.46
1	2C	148	THR	C-N	6.89	1.42	1.33
1	3c	4	GLN	CA-C	6.89	1.61	1.52
1	6r	175	GLU	CA-C	-6.89	1.43	1.52
1	7B	18	ARG	NE-CZ	6.89	1.40	1.33
1	7U	92	GLU	N-CA	6.89	1.55	1.45
1	11	117	TRP	CA-C	6.89	1.61	1.52
1	c2	66	MET	CA-CB	6.89	1.64	1.53
1	1k	28	GLU	N-CA	-6.89	1.38	1.46
1	1k	50	GLN	N-CA	6.89	1.54	1.46
1	dS	2	ILE	C-N	6.89	1.42	1.33
1	dT	36	VAL	CA-CB	-6.89	1.44	1.54
1	eI	203	LYS	CA-CB	6.89	1.64	1.53
1	f6	153	ILE	CA-CB	6.89	1.63	1.54
1	fu	203	LYS	CA-C	6.89	1.61	1.52
1	fz	44	SER	N-CA	-6.89	1.38	1.46
1	q	27	VAL	CA-C	-6.89	1.42	1.52
1	z	104	ILE	CA-CB	-6.89	1.45	1.54
1	gN	168	PHE	CA-C	6.88	1.61	1.52
1	h7	12	HIS	CG-ND1	-6.88	1.30	1.38
1	hF	21	ASN	CA-CB	6.88	1.64	1.53
1	ig	228	ALA	CA-CB	6.88	1.65	1.53
1	ih	133	TRP	CA-C	6.88	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ii	37	ILE	CA-CB	-6.88	1.49	1.53
1	jm	38	PRO	N-CD	-6.88	1.38	1.47
1	jH	120	HIS	ND1-CE1	6.88	1.39	1.32
1	kp	62	HIS	CB-CG	-6.88	1.40	1.50
1	l6	42	ALA	CA-C	6.88	1.62	1.52
1	32	51	ASP	N-CA	-6.88	1.38	1.46
1	3W	84	HIS	ND1-CE1	6.88	1.39	1.32
1	4l	98	GLU	CA-C	6.88	1.60	1.53
1	51	44	SER	N-CA	6.88	1.54	1.46
1	6i	121	ASN	CA-C	6.88	1.58	1.52
1	6J	62	HIS	CB-CG	6.88	1.59	1.50
1	6R	180	GLU	CA-CB	6.88	1.64	1.53
1	7j	120	HIS	CB-CG	6.88	1.59	1.50
1	9s	80	TRP	NE1-CE2	-6.88	1.29	1.37
1	Y	48	THR	CA-CB	-6.88	1.42	1.53
1	at	73	ILE	CA-C	-6.88	1.44	1.52
1	d4	158	LYS	CA-CB	6.88	1.62	1.53
1	dk	117	TRP	N-CA	-6.88	1.38	1.46
1	er	149	SER	C-N	6.88	1.42	1.33
1	1w	64	ALA	N-CA	6.88	1.54	1.46
1	fq	167	ARG	N-CA	-6.88	1.37	1.46
1	fD	11	VAL	N-CA	-6.88	1.38	1.46
1	1y	98	GLU	C-N	6.88	1.42	1.33
1	kf	2	ILE	CA-C	6.88	1.61	1.52
1	kK	43	LEU	CB-CG	6.88	1.67	1.53
1	lN	153	ILE	CA-CB	-6.88	1.46	1.54
1	4Q	40	PHE	CA-CB	6.88	1.64	1.53
1	6w	84	HIS	ND1-CE1	6.88	1.39	1.32
1	9s	226	HIS	ND1-CE1	6.88	1.39	1.32
1	a2	187	GLU	CA-C	6.88	1.61	1.52
1	aF	115	ILE	CA-C	6.88	1.61	1.52
1	bO	43	LEU	N-CA	-6.88	1.37	1.46
1	bQ	104	ILE	CA-C	-6.88	1.43	1.52
1	cw	65	ALA	CA-C	-6.88	1.43	1.52
1	cL	139	ASN	CA-C	-6.88	1.43	1.52
1	d5	56	LEU	CA-C	6.88	1.61	1.52
1	dG	226	HIS	CB-CG	6.88	1.59	1.50
1	gH	206	GLY	C-N	-6.88	1.27	1.33
1	h4	83	LEU	C-N	6.88	1.43	1.33
1	i7	86	VAL	N-CA	6.88	1.54	1.46
1	jF	94	GLY	C-N	6.88	1.42	1.33
1	kT	123	PRO	CA-C	6.88	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kT	168	PHE	N-CA	-6.88	1.38	1.46
1	l6	173	ARG	C-N	6.88	1.43	1.33
1	l9	119	THR	C-N	6.88	1.42	1.33
1	lt	22	ALA	N-CA	6.88	1.54	1.46
1	lJ	7	GLN	CA-C	6.88	1.61	1.52
1	4Z	40	PHE	CA-CB	6.88	1.64	1.53
1	5q	33	SER	CA-C	6.88	1.61	1.52
1	5z	5	ASN	C-O	-6.88	1.15	1.23
1	5O	76	GLU	CA-CB	6.88	1.64	1.53
1	6W	85	PRO	CA-C	6.88	1.61	1.52
1	6W	230	VAL	C-O	6.88	1.31	1.24
1	7n	16	SER	CA-C	6.88	1.60	1.52
1	7y	132	ARG	CA-CB	6.88	1.64	1.53
1	8M	189	LEU	CA-CB	6.88	1.64	1.53
1	9L	124	ILE	CA-C	6.88	1.58	1.53
1	aa	190	LEU	CA-CB	6.88	1.64	1.53
1	ay	167	ARG	CA-C	-6.88	1.44	1.52
1	aG	171	THR	CA-C	6.88	1.61	1.52
1	aU	101	GLY	N-CA	6.88	1.55	1.45
1	b7	84	HIS	ND1-CE1	6.88	1.39	1.32
1	bQ	156	GLY	N-CA	6.88	1.52	1.43
1	bW	79	GLU	CA-C	6.88	1.61	1.52
1	c4	146	SER	CA-CB	6.88	1.63	1.53
1	c4	201	ILE	CA-C	6.88	1.61	1.52
1	1g	226	HIS	ND1-CE1	6.88	1.39	1.32
1	cT	63	GLN	C-O	-6.88	1.16	1.24
1	cY	66	MET	CA-CB	6.88	1.64	1.53
1	e0	83	LEU	C-N	6.88	1.40	1.33
1	eo	20	LEU	CA-CB	6.88	1.64	1.53
1	eu	89	GLY	N-CA	6.88	1.54	1.44
1	ft	86	VAL	C-N	6.88	1.43	1.33
1	n	26	VAL	CA-CB	6.88	1.63	1.54
1	iX	88	ALA	CA-C	-6.88	1.44	1.52
1	jE	211	LEU	CA-CB	6.88	1.64	1.53
1	4K	85	PRO	CA-CB	6.88	1.63	1.53
1	5F	92	GLU	CA-C	6.88	1.60	1.52
1	6b	88	ALA	N-CA	-6.88	1.37	1.46
1	70	143	ARG	CD-NE	6.88	1.55	1.46
1	7l	173	ARG	NE-CZ	-6.88	1.25	1.33
1	aa	125	PRO	CA-C	6.88	1.58	1.53
1	b5	215	MET	CA-C	-6.88	1.43	1.52
1	1o	38	PRO	CA-C	-6.88	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1q	11	VAL	CA-CB	-6.88	1.45	1.54
1	fs	82	ARG	CD-NE	6.88	1.55	1.46
1	3	92	GLU	CA-CB	6.88	1.61	1.53
1	gc	60	GLY	CA-C	6.88	1.61	1.51
1	gD	15	ILE	CA-CB	-6.88	1.46	1.54
1	iW	117	TRP	CA-CB	6.88	1.64	1.53
1	jx	98	GLU	CA-CB	6.88	1.63	1.53
1	jy	183	ASN	N-CA	-6.88	1.38	1.46
1	jF	159	GLU	CA-C	6.88	1.61	1.53
1	jS	221	VAL	N-CA	6.88	1.54	1.46
1	lG	43	LEU	N-CA	-6.88	1.36	1.46
1	2C	103	ASP	C-N	6.88	1.42	1.33
1	2Q	62	HIS	CB-CG	-6.88	1.40	1.50
1	3S	37	ILE	CA-CB	6.88	1.58	1.53
1	43	140	LYS	CA-CB	6.88	1.64	1.53
1	4v	200	THR	N-CA	6.88	1.54	1.46
1	6i	138	LEU	N-CA	6.88	1.54	1.46
1	16	8	GLY	CA-C	6.88	1.60	1.51
1	bL	185	MET	CA-CB	6.88	1.64	1.53
1	bY	167	ARG	CA-C	6.88	1.61	1.52
1	c9	3	VAL	CA-C	6.88	1.60	1.52
1	cy	213	GLU	N-CA	6.88	1.54	1.46
1	cL	125	PRO	CA-C	-6.88	1.47	1.53
1	d3	62	HIS	CE1-NE2	6.88	1.39	1.32
1	ew	82	ARG	CD-NE	6.88	1.55	1.46
1	f9	103	ASP	CA-CB	6.88	1.64	1.53
1	ff	205	LEU	CA-CB	6.88	1.64	1.53
1	fB	162	ARG	N-CA	-6.88	1.37	1.46
1	fG	122	PRO	C-N	6.88	1.42	1.33
1	6	218	CYS	CA-C	6.88	1.60	1.52
1	i0	49	PRO	CA-CB	-6.88	1.43	1.53
1	i3	211	LEU	CA-C	-6.88	1.44	1.52
1	ii	70	LYS	CA-CB	6.88	1.64	1.53
1	j9	157	PRO	N-CA	-6.88	1.39	1.47
1	ks	92	GLU	CA-C	6.88	1.61	1.53
1	kX	37	ILE	C-N	-6.88	1.25	1.34
1	lK	4	GLN	CA-C	6.88	1.61	1.52
1	lP	148	THR	N-CA	6.88	1.54	1.46
1	5N	212	GLU	C-N	6.88	1.43	1.33
1	60	202	LEU	CA-CB	6.88	1.64	1.53
1	6M	173	ARG	N-CA	-6.88	1.37	1.46
1	9c	100	ARG	CD-NE	6.88	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9n	181	VAL	C-N	6.88	1.43	1.33
1	b3	226	HIS	CE1-NE2	-6.88	1.25	1.32
1	bg	125	PRO	N-CD	-6.88	1.38	1.47
1	bE	162	ARG	CD-NE	6.88	1.55	1.46
1	2	84	HIS	CD2-NE2	6.88	1.45	1.37
1	P	214	MET	CA-CB	-6.88	1.42	1.53
1	1C	40	PHE	CA-C	-6.88	1.43	1.52
1	gn	148	THR	CA-C	6.88	1.61	1.52
1	1J	226	HIS	ND1-CE1	6.88	1.39	1.32
1	i9	110	THR	C-N	6.88	1.42	1.33
1	je	154	ARG	C-N	6.88	1.42	1.33
1	kH	18	ARG	CA-CB	6.88	1.64	1.53
1	6k	6	LEU	CA-C	6.88	1.61	1.52
1	6q	135	ILE	CA-CB	-6.88	1.44	1.54
1	9w	128	GLU	C-N	6.88	1.42	1.33
1	a5	23	TRP	N-CA	-6.88	1.38	1.46
1	ch	87	HIS	CA-CB	6.88	1.63	1.54
1	h7	62	HIS	CA-C	6.87	1.61	1.53
1	hr	226	HIS	CD2-NE2	-6.87	1.30	1.37
1	1N	6	LEU	CA-CB	6.87	1.63	1.54
1	iS	179	GLN	CA-C	-6.87	1.43	1.52
1	jb	84	HIS	ND1-CE1	6.87	1.39	1.32
1	jf	124	ILE	CA-C	6.87	1.59	1.53
1	jy	104	ILE	C-N	6.87	1.43	1.33
1	ko	208	ALA	CA-CB	6.87	1.64	1.53
1	l7	160	PRO	CA-C	-6.87	1.44	1.52
1	ln	87	HIS	ND1-CE1	6.87	1.39	1.32
1	3l	120	HIS	ND1-CE1	6.87	1.39	1.32
1	4B	226	HIS	ND1-CE1	6.87	1.39	1.32
1	4L	37	ILE	CA-CB	6.87	1.58	1.53
1	6t	65	ALA	N-CA	-6.87	1.38	1.46
1	72	12	HIS	CE1-NE2	-6.87	1.25	1.32
1	7l	214	MET	CA-C	6.87	1.61	1.52
1	7q	73	ILE	CA-CB	-6.87	1.45	1.54
1	7D	32	PHE	CA-CB	6.87	1.61	1.53
1	8g	162	ARG	C-N	6.87	1.43	1.34
1	b0	101	GLY	N-CA	6.87	1.54	1.45
1	bu	151	LEU	CA-CB	6.87	1.65	1.53
1	1k	22	ALA	N-CA	-6.87	1.38	1.46
1	dy	145	TYR	N-CA	-6.87	1.37	1.46
1	dA	137	GLY	CA-C	-6.87	1.44	1.52
1	ee	192	GLN	CA-C	6.87	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fp	91	ILE	N-CA	-6.87	1.38	1.46
1	fP	35	GLU	C-N	6.87	1.42	1.33
1	b	158	LYS	N-CA	6.87	1.55	1.45
1	k	94	GLY	CA-C	-6.87	1.42	1.51
1	4	97	ARG	NE-CZ	-6.87	1.25	1.33
1	gO	3	VAL	C-N	6.87	1.42	1.33
1	iF	93	PRO	C-N	6.87	1.41	1.33
1	iX	2	ILE	C-N	-6.87	1.24	1.33
1	je	126	VAL	N-CA	6.87	1.54	1.46
1	jH	195	ASN	CA-CB	6.87	1.62	1.53
1	k2	8	GLY	N-CA	6.87	1.52	1.45
1	k5	47	ALA	CA-C	6.87	1.61	1.52
1	2Z	167	ARG	CA-CB	6.87	1.64	1.53
1	3j	113	GLU	CA-C	6.87	1.61	1.52
1	6n	180	GLU	CA-C	6.87	1.61	1.52
1	6N	227	LYS	CA-C	-6.87	1.44	1.52
1	6V	194	ALA	C-N	6.87	1.43	1.33
1	9S	189	LEU	CA-C	-6.87	1.43	1.52
1	an	195	ASN	CA-CB	6.87	1.63	1.53
1	ax	164	TYR	CA-CB	6.87	1.64	1.53
1	aB	120	HIS	ND1-CE1	6.87	1.39	1.32
1	eO	128	GLU	CA-C	-6.87	1.44	1.52
1	k	18	ARG	CA-CB	6.87	1.64	1.53
1	ir	78	ALA	N-CA	-6.87	1.38	1.46
1	iR	162	ARG	CD-NE	6.87	1.55	1.46
1	km	78	ALA	N-CA	-6.87	1.38	1.46
1	l8	92	GLU	C-N	6.87	1.40	1.34
1	3y	101	GLY	CA-C	-6.87	1.43	1.52
1	4i	156	GLY	N-CA	6.87	1.54	1.44
1	5x	80	TRP	CA-C	6.87	1.61	1.52
1	8m	24	VAL	CA-C	6.87	1.61	1.52
1	94	62	HIS	CE1-NE2	6.87	1.39	1.32
1	9Y	175	GLU	CA-CB	6.87	1.63	1.53
1	at	69	LEU	CA-C	6.87	1.61	1.52
1	c3	87	HIS	CA-C	6.87	1.61	1.52
1	d7	84	HIS	ND1-CE1	6.87	1.39	1.32
1	dk	145	TYR	CA-C	6.87	1.61	1.52
1	eu	34	PRO	C-N	6.87	1.43	1.33
1	gi	110	THR	CA-C	-6.87	1.44	1.52
1	gV	168	PHE	CA-CB	6.87	1.64	1.53
1	ha	120	HIS	ND1-CE1	6.87	1.39	1.32
1	hx	151	LEU	C-N	6.87	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hC	97	ARG	CA-C	6.87	1.61	1.52
1	ic	59	VAL	CA-CB	6.87	1.63	1.54
1	if	122	PRO	C-N	6.87	1.42	1.33
1	1U	106	GLY	C-N	6.87	1.43	1.33
1	jw	98	GLU	CA-CB	6.87	1.64	1.53
1	lx	163	ASP	N-CA	-6.87	1.37	1.46
1	36	77	ALA	CA-CB	6.87	1.64	1.53
1	3f	16	SER	CA-CB	6.87	1.63	1.53
1	3o	109	SER	CA-C	-6.87	1.44	1.52
1	3L	74	ASN	CA-CB	6.87	1.64	1.53
1	45	33	SER	C-N	6.87	1.42	1.33
1	4j	84	HIS	ND1-CE1	6.87	1.39	1.32
1	5C	28	GLU	CA-C	-6.87	1.43	1.52
1	6u	58	THR	C-N	6.87	1.42	1.33
1	6E	11	VAL	C-O	-6.87	1.15	1.24
1	8V	78	ALA	C-O	-6.87	1.16	1.24
1	9Z	19	THR	C-N	6.87	1.42	1.33
1	ag	149	SER	CA-C	-6.87	1.46	1.53
1	b0	61	GLY	C-N	6.87	1.43	1.33
1	b3	13	GLN	CA-CB	6.87	1.66	1.53
1	17	121	ASN	CA-C	6.87	1.58	1.52
1	bo	183	ASN	CA-CB	6.87	1.64	1.53
1	bY	120	HIS	ND1-CE1	6.87	1.39	1.32
1	cT	143	ARG	CA-C	-6.87	1.44	1.52
1	dS	82	ARG	N-CA	6.87	1.55	1.46
1	1o	189	LEU	CA-C	-6.87	1.47	1.52
1	3	161	PHE	N-CA	-6.87	1.38	1.46
1	P	51	ASP	CA-C	6.87	1.61	1.52
1	P	154	ARG	CD-NE	6.87	1.55	1.46
1	hf	146	SER	C-N	6.87	1.39	1.33
1	1L	195	ASN	CA-C	6.87	1.61	1.53
1	iC	5	ASN	CA-C	6.87	1.62	1.53
1	jH	133	TRP	CA-CB	6.87	1.64	1.53
1	kN	91	ILE	CA-C	-6.87	1.44	1.52
1	9R	87	HIS	CA-C	6.87	1.61	1.52
1	9X	62	HIS	CE1-NE2	6.87	1.39	1.32
1	15	143	ARG	CD-NE	6.87	1.55	1.46
1	bV	19	THR	C-N	-6.87	1.25	1.33
1	dg	206	GLY	N-CA	6.87	1.54	1.44
1	ed	10	MET	N-CA	-6.87	1.37	1.46
1	gI	175	GLU	CA-CB	6.87	1.65	1.53
1	hc	218	CYS	CA-CB	6.87	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i4	102	SER	CA-C	-6.87	1.43	1.52
1	iF	62	HIS	CE1-NE2	6.87	1.39	1.32
1	iV	135	ILE	CA-CB	6.87	1.63	1.54
1	kF	17	PRO	CA-CB	-6.87	1.44	1.53
1	kQ	10	MET	N-CA	-6.87	1.37	1.46
1	lD	62	HIS	CE1-NE2	6.87	1.39	1.32
1	2n	147	PRO	CA-C	6.87	1.62	1.52
1	2u	218	CYS	C-N	6.87	1.43	1.33
1	2x	224	PRO	CA-C	-6.87	1.44	1.52
1	2H	130	TYR	C-N	6.87	1.43	1.33
1	2L	84	HIS	CA-CB	6.87	1.62	1.53
1	3c	60	GLY	CA-C	-6.87	1.42	1.51
1	4q	145	TYR	N-CA	-6.87	1.38	1.46
1	5A	143	ARG	CZ-NH2	-6.87	1.24	1.33
1	85	122	PRO	N-CD	-6.87	1.38	1.47
1	86	91	ILE	CA-CB	-6.87	1.46	1.54
1	8F	191	VAL	CA-C	6.87	1.61	1.52
1	96	75	GLU	CA-CB	6.87	1.64	1.53
1	aj	160	PRO	CA-C	-6.87	1.46	1.53
1	am	48	THR	CA-CB	6.87	1.62	1.53
1	cU	230	VAL	CA-CB	-6.87	1.47	1.54
1	1k	16	SER	C-N	-6.87	1.26	1.34
1	do	45	GLU	CA-CB	6.87	1.61	1.52
1	1p	174	ALA	CA-CB	6.87	1.64	1.53
1	f7	183	ASN	CA-CB	6.87	1.64	1.53
1	1w	154	ARG	CA-C	-6.87	1.43	1.52
1	fx	181	VAL	N-CA	-6.87	1.38	1.46
1	fF	53	ASN	C-N	6.87	1.43	1.33
1	gt	164	TYR	CZ-OH	6.86	1.52	1.38
1	gX	221	VAL	CA-CB	6.86	1.62	1.54
1	k9	20	LEU	CA-CB	6.86	1.64	1.53
1	lK	36	VAL	CA-C	-6.86	1.44	1.52
1	lO	161	PHE	CA-CB	6.86	1.64	1.53
1	3a	59	VAL	CA-C	6.86	1.60	1.52
1	3K	217	ALA	CA-CB	6.86	1.63	1.53
1	5W	77	ALA	CA-C	6.86	1.61	1.52
1	6U	70	LYS	N-CA	6.86	1.54	1.46
1	6X	188	THR	N-CA	6.86	1.55	1.46
1	75	44	SER	C-N	6.86	1.43	1.33
1	87	215	MET	C-N	6.86	1.43	1.33
1	89	64	ALA	N-CA	6.86	1.54	1.46
1	8H	102	SER	N-CA	-6.86	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aT	104	ILE	CA-CB	-6.86	1.46	1.54
1	bW	226	HIS	N-CA	6.86	1.55	1.46
1	dy	178	SER	N-CA	-6.86	1.36	1.45
1	dF	98	GLU	CA-C	6.86	1.60	1.52
1	eL	33	SER	CA-CB	6.86	1.63	1.53
1	fh	30	LYS	CA-C	-6.86	1.44	1.52
1	le	18	ARG	CA-C	-6.86	1.43	1.52
1	29	149	SER	CA-C	-6.86	1.43	1.53
1	3o	229	ARG	CD-NE	6.86	1.55	1.46
1	3N	216	THR	N-CA	6.86	1.55	1.45
1	5f	133	TRP	CA-CB	6.86	1.64	1.53
1	6i	102	SER	CA-CB	6.86	1.64	1.53
1	6M	204	ALA	N-CA	-6.86	1.37	1.46
1	7S	56	LEU	CB-CG	6.86	1.67	1.53
1	aD	97	ARG	CD-NE	6.86	1.55	1.46
1	aW	163	ASP	N-CA	6.86	1.55	1.46
1	1e	36	VAL	CA-C	-6.86	1.44	1.52
1	d1	52	LEU	CA-C	6.86	1.61	1.52
1	e8	85	PRO	CA-C	6.86	1.62	1.52
1	eF	187	GLU	CA-CB	6.86	1.65	1.53
1	1w	123	PRO	C-N	6.86	1.41	1.33
1	g5	117	TRP	CA-CB	6.86	1.64	1.53
1	gL	33	SER	C-N	6.86	1.41	1.34
1	iJ	124	ILE	N-CA	-6.86	1.41	1.46
1	iU	47	ALA	CA-C	6.86	1.61	1.52
1	jk	84	HIS	CG-CD2	6.86	1.43	1.35
1	20	196	PRO	CA-CB	-6.86	1.44	1.53
1	kX	124	ILE	CA-C	6.86	1.58	1.52
1	l2	131	LYS	CA-C	-6.86	1.43	1.52
1	26	225	GLY	CA-C	-6.86	1.45	1.52
1	3V	207	PRO	CA-CB	-6.86	1.44	1.53
1	4D	79	GLU	CA-CB	6.86	1.64	1.53
1	5v	4	GLN	CA-CB	6.86	1.64	1.53
1	5w	153	ILE	CA-C	-6.86	1.44	1.52
1	7O	144	MET	CA-CB	6.86	1.64	1.53
1	an	88	ALA	CA-C	6.86	1.61	1.52
1	aY	138	LEU	C-N	6.86	1.42	1.33
1	bl	50	GLN	C-N	6.86	1.43	1.33
1	cx	187	GLU	CA-CB	6.86	1.65	1.53
1	fa	226	HIS	ND1-CE1	6.86	1.39	1.32
1	fq	203	LYS	CA-CB	6.86	1.64	1.53
1	fQ	50	GLN	CA-C	6.86	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	189	LEU	C-N	6.86	1.42	1.33
1	T	84	HIS	CA-C	6.86	1.60	1.52
1	9	201	ILE	C-N	6.86	1.43	1.33
1	gK	218	CYS	CA-CB	6.86	1.63	1.53
1	h8	45	GLU	N-CA	6.86	1.55	1.46
1	hZ	199	LYS	CA-CB	6.86	1.64	1.53
1	i9	26	VAL	N-CA	6.86	1.54	1.46
1	iW	63	GLN	CA-CB	6.86	1.64	1.53
1	2H	201	ILE	CA-CB	-6.86	1.46	1.54
1	3F	87	HIS	CD2-NE2	6.86	1.45	1.37
1	3N	213	GLU	C-N	6.86	1.43	1.34
1	ao	136	LEU	CA-C	6.86	1.61	1.52
1	ap	222	GLY	CA-C	-6.86	1.44	1.52
1	cM	135	ILE	CA-C	6.86	1.61	1.52
1	eR	113	GLU	CA-C	6.86	1.61	1.52
1	fI	113	GLU	CA-C	6.86	1.61	1.52
1	J	127	GLY	C-N	6.86	1.43	1.33
1	gz	99	PRO	CA-C	-6.86	1.44	1.52
1	1I	117	TRP	NE1-CE2	-6.86	1.29	1.37
1	hP	68	MET	C-N	6.86	1.42	1.33
1	1M	23	TRP	CA-C	-6.86	1.43	1.52
1	i2	226	HIS	CD2-NE2	6.86	1.45	1.37
1	iX	69	LEU	CA-CB	6.86	1.64	1.53
1	jo	213	GLU	CA-C	-6.86	1.44	1.52
1	l9	98	GLU	CA-C	6.86	1.60	1.53
1	ls	21	ASN	CA-C	6.86	1.61	1.52
1	lt	195	ASN	C-N	6.86	1.44	1.33
1	2x	69	LEU	N-CA	6.86	1.54	1.46
1	3F	207	PRO	N-CD	-6.86	1.38	1.47
1	3R	190	LEU	C-N	-6.86	1.24	1.33
1	3X	149	SER	CA-CB	6.86	1.64	1.53
1	4j	112	GLN	C-N	6.86	1.43	1.33
1	4x	189	LEU	N-CA	6.86	1.55	1.46
1	57	19	THR	C-N	6.86	1.42	1.33
1	59	219	GLN	CA-C	-6.86	1.44	1.52
1	5S	109	SER	N-CA	-6.86	1.37	1.46
1	69	19	THR	CA-C	-6.86	1.44	1.52
1	6s	71	GLU	N-CA	6.86	1.54	1.46
1	8g	133	TRP	NE1-CE2	-6.86	1.29	1.37
1	9u	110	THR	N-CA	6.86	1.54	1.45
1	9H	226	HIS	ND1-CE1	6.86	1.39	1.32
1	ah	69	LEU	C-N	6.86	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bh	159	GLU	C-N	6.86	1.42	1.33
1	cl	64	ALA	C-N	6.86	1.43	1.33
1	cR	99	PRO	CA-CB	-6.86	1.46	1.54
1	do	83	LEU	CA-CB	6.86	1.65	1.53
1	eI	217	ALA	C-N	6.86	1.43	1.33
1	fn	132	ARG	CD-NE	6.86	1.55	1.46
1	fu	12	HIS	CA-C	6.86	1.61	1.52
1	t	182	LYS	CA-C	-6.86	1.43	1.52
1	ga	62	HIS	CE1-NE2	6.86	1.39	1.32
1	go	163	ASP	CA-CB	6.86	1.64	1.53
1	h3	190	LEU	CA-C	6.86	1.61	1.52
1	ia	77	ALA	C-N	6.86	1.43	1.34
1	1O	208	ALA	C-N	6.86	1.42	1.33
1	1R	100	ARG	C-N	6.86	1.42	1.33
1	jg	193	ASN	CA-CB	6.86	1.64	1.53
1	ji	26	VAL	CA-C	-6.86	1.44	1.52
1	jo	158	LYS	N-CA	-6.86	1.36	1.46
1	1X	151	LEU	CA-CB	6.86	1.65	1.53
1	kM	150	ILE	CB-CG1	6.86	1.67	1.53
1	lu	136	LEU	N-CA	6.86	1.54	1.46
1	2X	15	ILE	CA-CB	-6.86	1.46	1.54
1	4V	27	VAL	CA-CB	6.86	1.63	1.54
1	5p	87	HIS	ND1-CE1	6.86	1.39	1.32
1	6E	35	GLU	CA-C	6.86	1.62	1.52
1	6G	132	ARG	N-CA	6.86	1.54	1.46
1	6M	81	ASP	CA-C	6.86	1.61	1.52
1	6Z	37	ILE	CA-CB	6.86	1.58	1.54
1	7f	63	GLN	N-CA	-6.86	1.37	1.46
1	9p	39	MET	C-N	6.86	1.42	1.33
1	9u	90	PRO	N-CA	-6.86	1.38	1.47
1	9K	54	THR	CB-OG1	-6.86	1.32	1.43
1	au	51	ASP	N-CA	-6.86	1.38	1.46
1	bO	2	ILE	CA-C	-6.86	1.43	1.52
1	c5	18	ARG	C-N	6.86	1.42	1.33
1	c9	160	PRO	C-N	6.86	1.43	1.33
1	ci	195	ASN	CA-C	6.86	1.60	1.53
1	cw	226	HIS	N-CA	-6.86	1.38	1.46
1	cI	105	ALA	C-N	6.86	1.42	1.33
1	dT	19	THR	CA-C	-6.86	1.44	1.52
1	e6	120	HIS	ND1-CE1	6.86	1.39	1.32
1	fl	37	ILE	CA-CB	-6.86	1.50	1.54
1	fZ	154	ARG	CD-NE	6.86	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fZ	218	CYS	CA-CB	6.86	1.63	1.53
1	0	9	GLN	N-CA	-6.86	1.37	1.45
1	7	100	ARG	C-N	6.86	1.42	1.33
1	hR	133	TRP	NE1-CE2	-6.85	1.29	1.37
1	jb	43	LEU	CA-CB	6.85	1.64	1.53
1	kh	183	ASN	C-N	6.85	1.43	1.33
1	kB	171	THR	C-O	6.85	1.32	1.24
1	l6	102	SER	CA-CB	6.85	1.64	1.53
1	2V	46	GLY	CA-C	6.85	1.61	1.51
1	b0	30	LYS	C-N	6.85	1.43	1.33
1	bd	40	PHE	CA-CB	6.85	1.64	1.53
1	cR	200	THR	C-N	6.85	1.42	1.33
1	ez	39	MET	CA-C	6.85	1.61	1.52
1	gt	195	ASN	CA-CB	6.85	1.63	1.53
1	gG	228	ALA	CA-C	6.85	1.60	1.52
1	k6	167	ARG	CA-CB	6.85	1.64	1.53
1	3i	33	SER	CA-CB	6.85	1.62	1.53
1	3V	103	ASP	CA-C	6.85	1.61	1.52
1	54	59	VAL	C-O	6.85	1.30	1.24
1	5E	114	GLN	CA-C	6.85	1.61	1.52
1	6l	226	HIS	CE1-NE2	-6.85	1.25	1.32
1	6Z	93	PRO	CA-C	6.85	1.62	1.52
1	79	61	GLY	C-N	6.85	1.42	1.33
1	8j	9	GLN	CA-CB	6.85	1.64	1.53
1	8q	5	ASN	CA-C	-6.85	1.44	1.52
1	8B	41	SER	CA-CB	6.85	1.64	1.53
1	8L	215	MET	C-N	6.85	1.43	1.34
1	8O	118	MET	C-N	6.85	1.43	1.33
1	9D	52	LEU	C-N	6.85	1.43	1.33
1	12	124	ILE	CA-CB	-6.85	1.46	1.54
1	18	174	ALA	N-CA	-6.85	1.37	1.46
1	19	84	HIS	N-CA	-6.85	1.37	1.46
1	bF	132	ARG	CA-CB	6.85	1.64	1.53
1	cB	55	MET	N-CA	6.85	1.54	1.46
1	cP	84	HIS	ND1-CE1	6.85	1.39	1.32
1	eI	11	VAL	N-CA	6.85	1.54	1.46
1	1z	56	LEU	C-N	6.85	1.43	1.34
1	fP	43	LEU	C-N	6.85	1.42	1.33
1	g3	12	HIS	CG-CD2	6.85	1.43	1.35
1	V	193	ASN	CA-CB	6.85	1.63	1.53
1	g8	143	ARG	C-N	6.85	1.43	1.33
1	1D	184	TRP	NE1-CE2	-6.85	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hy	173	ARG	CD-NE	6.85	1.55	1.46
1	9o	62	HIS	CE1-NE2	6.85	1.39	1.32
1	aM	84	HIS	CB-CG	6.85	1.59	1.50
1	bU	68	MET	CA-CB	6.85	1.64	1.53
1	ec	119	THR	CA-CB	6.85	1.62	1.53
1	el	177	ALA	N-CA	6.85	1.54	1.45
1	eq	17	PRO	C-O	-6.85	1.16	1.24
1	fC	132	ARG	CA-CB	6.85	1.64	1.53
1	S	37	ILE	CA-C	-6.85	1.46	1.52
1	gc	188	THR	CA-CB	6.85	1.65	1.53
1	gp	100	ARG	C-N	6.85	1.43	1.33
1	1F	87	HIS	ND1-CE1	6.85	1.39	1.32
1	h0	38	PRO	C-N	6.85	1.42	1.33
1	h0	81	ASP	C-N	6.85	1.43	1.33
1	h9	167	ARG	CD-NE	6.85	1.55	1.46
1	hn	169	TYR	CA-C	6.85	1.61	1.52
1	hA	59	VAL	CA-C	-6.85	1.44	1.52
1	iR	226	HIS	ND1-CE1	6.85	1.39	1.32
1	j2	23	TRP	CA-CB	6.85	1.64	1.53
1	jm	51	ASP	N-CA	-6.85	1.37	1.46
1	k4	181	VAL	CA-CB	-6.85	1.45	1.54
1	kj	125	PRO	CA-CB	6.85	1.60	1.53
1	21	152	ASP	CA-C	6.85	1.61	1.52
1	ko	40	PHE	C-N	6.85	1.43	1.34
1	lH	37	ILE	CA-CB	6.85	1.57	1.54
1	3z	153	ILE	CA-C	6.85	1.60	1.52
1	4m	84	HIS	ND1-CE1	6.85	1.39	1.32
1	5E	25	LYS	CA-CB	6.85	1.64	1.53
1	6J	36	VAL	C-N	6.85	1.41	1.33
1	6Q	140	LYS	CA-C	-6.85	1.44	1.52
1	a2	92	GLU	CA-C	6.85	1.61	1.53
1	bP	135	ILE	CA-C	6.85	1.61	1.52
1	bZ	123	PRO	C-N	6.85	1.40	1.33
1	1c	160	PRO	CA-C	6.85	1.59	1.52
1	cg	12	HIS	CB-CG	6.85	1.59	1.50
1	cy	151	LEU	CA-C	6.85	1.61	1.52
1	dO	126	VAL	C-N	6.85	1.43	1.33
1	dQ	12	HIS	ND1-CE1	6.85	1.39	1.32
1	ev	117	TRP	CA-C	-6.85	1.43	1.52
1	f0	85	PRO	C-N	6.85	1.42	1.33
1	fj	23	TRP	C-O	-6.85	1.16	1.24
1	1w	132	ARG	CD-NE	6.85	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fA	41	SER	CA-CB	6.85	1.64	1.53
1	C	170	LYS	CA-CB	6.85	1.64	1.53
1	1E	84	HIS	CA-CB	6.85	1.62	1.53
1	gJ	21	ASN	C-N	6.85	1.42	1.33
1	1L	164	TYR	CA-C	6.85	1.61	1.52
1	ii	25	LYS	N-CA	-6.85	1.38	1.46
1	iN	15	ILE	CA-CB	6.85	1.63	1.53
1	j1	121	ASN	CA-C	6.85	1.60	1.52
1	kO	133	TRP	CA-CB	6.85	1.64	1.53
1	3N	179	GLN	CA-CB	6.85	1.64	1.53
1	3W	28	GLU	CA-CB	6.85	1.64	1.53
1	6l	97	ARG	CA-CB	6.85	1.65	1.53
1	9J	138	LEU	CA-CB	6.85	1.64	1.53
1	9R	126	VAL	CA-C	-6.85	1.44	1.52
1	ch	230	VAL	N-CA	6.85	1.55	1.46
1	cl	198	CYS	CA-C	-6.85	1.43	1.52
1	da	124	ILE	CA-C	-6.85	1.45	1.52
1	dg	189	LEU	N-CA	6.85	1.54	1.46
1	f6	131	LYS	CA-C	-6.85	1.43	1.52
1	fP	129	ILE	CA-CB	-6.85	1.46	1.54
1	g7	28	GLU	CA-C	6.85	1.61	1.52
1	f	185	MET	N-CA	-6.85	1.38	1.46
1	7	84	HIS	C-N	-6.85	1.24	1.33
1	j6	22	ALA	CA-C	-6.85	1.43	1.52
1	j8	113	GLU	CA-CB	6.85	1.64	1.53
1	jw	137	GLY	N-CA	6.85	1.54	1.45
1	jO	203	LYS	C-N	6.85	1.43	1.33
1	2y	157	PRO	C-N	6.85	1.43	1.33
1	3t	87	HIS	CA-CB	6.85	1.64	1.53
1	3F	116	GLY	CA-C	-6.85	1.44	1.52
1	6D	68	MET	C-N	6.85	1.42	1.33
1	9N	17	PRO	C-N	6.85	1.43	1.33
1	Z	49	PRO	CA-CB	-6.85	1.44	1.53
1	a8	174	ALA	CA-C	-6.85	1.43	1.52
1	au	187	GLU	CA-C	6.85	1.61	1.52
1	b1	56	LEU	C-O	-6.85	1.16	1.24
1	dq	154	ARG	CD-NE	6.85	1.55	1.46
1	dw	212	GLU	N-CA	-6.85	1.38	1.46
1	dA	48	THR	CA-C	-6.85	1.44	1.53
1	eq	97	ARG	CD-NE	6.85	1.55	1.46
1	H	219	GLN	CA-C	6.85	1.61	1.52
1	O	226	HIS	CG-CD2	6.85	1.43	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	178	SER	CA-CB	6.85	1.64	1.53
1	gn	17	PRO	N-CA	-6.84	1.38	1.47
1	gs	23	TRP	CA-C	6.84	1.61	1.52
1	gJ	1	PRO	N-CD	6.84	1.57	1.47
1	ib	117	TRP	NE1-CE2	6.84	1.45	1.37
1	iH	162	ARG	NE-CZ	-6.84	1.25	1.33
1	1S	122	PRO	N-CD	6.84	1.57	1.47
1	iU	131	LYS	CA-CB	6.84	1.64	1.53
1	jj	155	GLN	C-N	6.84	1.43	1.33
1	kN	173	ARG	CD-NE	6.84	1.55	1.46
1	kZ	171	THR	CA-CB	6.84	1.64	1.53
1	lf	128	GLU	N-CA	-6.84	1.38	1.46
1	li	9	GLN	CA-CB	6.84	1.63	1.53
1	2d	16	SER	CA-C	6.84	1.60	1.53
1	2q	202	LEU	CA-C	6.84	1.61	1.52
1	4s	153	ILE	CA-CB	6.84	1.61	1.54
1	7P	72	THR	C-N	6.84	1.42	1.33
1	7W	179	GLN	N-CA	-6.84	1.37	1.46
1	8K	84	HIS	ND1-CE1	6.84	1.39	1.32
1	8V	121	ASN	CA-C	6.84	1.58	1.52
1	99	24	VAL	CA-CB	6.84	1.61	1.54
1	aN	178	SER	C-N	6.84	1.43	1.33
1	aO	53	ASN	CA-CB	6.84	1.64	1.53
1	dn	118	MET	C-N	6.84	1.42	1.33
1	dt	177	ALA	CA-CB	6.84	1.64	1.53
1	dD	141	ILE	C-N	6.84	1.42	1.33
1	fj	176	GLN	C-N	6.84	1.43	1.33
1	b	208	ALA	CA-C	6.84	1.62	1.53
1	hv	116	GLY	C-N	6.84	1.43	1.34
1	i3	162	ARG	CD-NE	6.84	1.55	1.46
1	4T	191	VAL	CA-CB	-6.84	1.45	1.54
1	4W	36	VAL	CA-CB	-6.84	1.45	1.54
1	6q	119	THR	CA-CB	6.84	1.64	1.53
1	8i	22	ALA	CA-C	-6.84	1.43	1.52
1	aB	39	MET	N-CA	6.84	1.54	1.46
1	cv	25	LYS	C-N	6.84	1.42	1.33
1	ef	33	SER	N-CA	6.84	1.55	1.46
1	eA	56	LEU	N-CA	-6.84	1.38	1.46
1	fO	142	VAL	CA-CB	6.84	1.61	1.54
1	y	200	THR	CB-OG1	-6.84	1.32	1.43
1	z	182	LYS	CA-CB	6.84	1.64	1.53
1	gF	118	MET	CA-C	6.84	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gX	25	LYS	CA-CB	6.84	1.64	1.53
1	hh	143	ARG	CD-NE	6.84	1.55	1.46
1	i0	10	MET	CA-CB	6.84	1.63	1.53
1	ih	28	GLU	CA-C	6.84	1.61	1.52
1	1Q	9	GLN	CA-C	6.84	1.60	1.52
1	j6	15	ILE	CA-CB	-6.84	1.46	1.54
1	jf	167	ARG	CD-NE	6.84	1.55	1.46
1	jN	152	ASP	C-N	6.84	1.40	1.33
1	jV	29	GLU	CA-C	-6.84	1.44	1.52
1	ko	25	LYS	CA-CB	6.84	1.64	1.53
1	22	48	THR	C-N	-6.84	1.25	1.34
1	kG	218	CYS	CA-CB	6.84	1.63	1.53
1	kN	69	LEU	C-O	-6.84	1.16	1.24
1	4S	102	SER	CA-C	-6.84	1.44	1.52
1	4W	165	VAL	CA-C	6.84	1.61	1.52
1	56	115	ILE	C-N	6.84	1.42	1.33
1	6h	51	ASP	CA-C	-6.84	1.44	1.52
1	97	30	LYS	CA-C	6.84	1.61	1.52
1	9f	98	GLU	CA-C	6.84	1.60	1.53
1	b0	123	PRO	N-CA	-6.84	1.38	1.47
1	bo	69	LEU	CA-CB	6.84	1.64	1.53
1	bB	82	ARG	CD-NE	6.84	1.55	1.46
1	c1	138	LEU	CA-CB	6.84	1.64	1.53
1	ea	140	LYS	CA-C	6.84	1.61	1.52
1	fD	134	ILE	CA-C	-6.84	1.44	1.52
1	fH	136	LEU	C-O	-6.84	1.15	1.24
1	1B	227	LYS	CA-C	-6.84	1.44	1.52
1	p	86	VAL	CA-CB	6.84	1.61	1.54
1	X	2	ILE	CA-CB	-6.84	1.45	1.53
1	gt	72	THR	C-N	6.84	1.42	1.33
1	1M	165	VAL	CA-CB	-6.84	1.46	1.54
1	iy	209	ALA	CA-C	6.84	1.61	1.52
1	1W	116	GLY	CA-C	6.84	1.59	1.51
1	jW	95	GLN	CA-C	6.84	1.61	1.52
1	kn	125	PRO	CA-CB	-6.84	1.48	1.53
1	lf	91	ILE	C-N	6.84	1.42	1.33
1	lC	130	TYR	CZ-OH	6.84	1.52	1.38
1	lL	224	PRO	CA-C	6.84	1.60	1.52
1	36	123	PRO	N-CA	6.84	1.55	1.47
1	3a	164	TYR	C-N	6.84	1.42	1.34
1	3D	182	LYS	C-N	6.84	1.42	1.33
1	3T	86	VAL	C-N	6.84	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5H	87	HIS	ND1-CE1	6.84	1.39	1.32
1	5H	109	SER	CA-C	-6.84	1.44	1.52
1	5O	125	PRO	C-N	6.84	1.42	1.33
1	5T	135	ILE	CA-CB	-6.84	1.46	1.54
1	6m	218	CYS	CA-CB	6.84	1.63	1.53
1	6R	187	GLU	N-CA	-6.84	1.36	1.45
1	8M	156	GLY	N-CA	6.84	1.54	1.44
1	8Y	143	ARG	CD-NE	6.84	1.55	1.46
1	a3	87	HIS	ND1-CE1	6.84	1.39	1.32
1	a5	193	ASN	C-N	6.84	1.42	1.33
1	aA	208	ALA	CA-C	6.84	1.60	1.52
1	bM	84	HIS	CB-CG	-6.84	1.40	1.50
1	g1	100	ARG	CD-NE	6.84	1.55	1.46
1	M	175	GLU	CA-C	-6.84	1.44	1.52
1	im	126	VAL	CA-C	-6.84	1.44	1.52
1	iD	57	ASN	CA-CB	6.84	1.65	1.53
1	kv	103	ASP	N-CA	6.84	1.54	1.46
1	kK	9	GLN	C-N	6.84	1.42	1.33
1	2M	22	ALA	CA-CB	6.84	1.64	1.53
1	5z	105	ALA	CA-C	6.84	1.62	1.52
1	b0	63	GLN	C-N	6.84	1.43	1.33
1	dp	51	ASP	CA-CB	6.84	1.64	1.53
1	dG	87	HIS	CD2-NE2	6.84	1.45	1.37
1	e9	87	HIS	ND1-CE1	6.84	1.39	1.32
1	3	124	ILE	CA-C	-6.84	1.47	1.53
1	gJ	96	MET	N-CA	6.84	1.53	1.45
1	1K	154	ARG	CD-NE	6.84	1.55	1.46
1	hI	93	PRO	CA-C	6.84	1.60	1.52
1	hU	20	LEU	N-CA	6.84	1.54	1.46
1	hY	182	LYS	CA-C	-6.84	1.44	1.52
1	iy	52	LEU	C-O	-6.84	1.15	1.24
1	iF	62	HIS	CA-C	6.84	1.61	1.53
1	k0	162	ARG	CD-NE	6.84	1.55	1.46
1	kj	84	HIS	CG-ND1	-6.84	1.30	1.38
1	4h	40	PHE	N-CA	-6.84	1.38	1.46
1	4n	25	LYS	C-O	-6.84	1.16	1.24
1	7f	180	GLU	C-N	6.84	1.42	1.33
1	7N	209	ALA	C-N	6.84	1.42	1.33
1	8G	88	ALA	CA-C	-6.84	1.44	1.52
1	9b	35	GLU	CA-CB	6.84	1.65	1.53
1	12	125	PRO	CA-CB	6.84	1.57	1.53
1	aL	87	HIS	ND1-CE1	6.84	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bz	104	ILE	C-O	-6.84	1.16	1.24
1	bE	178	SER	CA-C	6.84	1.61	1.52
1	1a	12	HIS	CG-ND1	6.84	1.45	1.38
1	1f	131	LYS	N-CA	-6.84	1.37	1.46
1	dQ	107	THR	CA-C	-6.84	1.43	1.52
1	f8	97	ARG	NE-CZ	-6.84	1.25	1.33
1	fl	114	GLN	CA-C	6.84	1.61	1.52
1	1x	10	MET	CA-C	-6.84	1.44	1.52
1	g2	131	LYS	N-CA	-6.84	1.38	1.46
1	i	154	ARG	CA-C	6.84	1.61	1.52
1	u	53	ASN	CA-CB	6.84	1.64	1.53
1	gf	95	GLN	CA-C	6.83	1.62	1.53
1	iM	125	PRO	CA-CB	6.83	1.60	1.53
1	j9	33	SER	CA-CB	6.83	1.63	1.54
1	kX	120	HIS	ND1-CE1	6.83	1.39	1.32
1	31	67	GLN	CA-CB	6.83	1.64	1.53
1	7u	140	LYS	CA-C	-6.83	1.43	1.52
1	9H	140	LYS	CA-C	6.83	1.61	1.52
1	9N	224	PRO	C-N	6.83	1.43	1.33
1	ar	197	ASP	C-N	6.83	1.42	1.33
1	av	107	THR	CA-C	6.83	1.57	1.52
1	b5	25	LYS	CA-CB	6.83	1.64	1.53
1	cM	218	CYS	CA-C	-6.83	1.47	1.53
1	dh	26	VAL	CA-CB	6.83	1.62	1.54
1	dv	87	HIS	ND1-CE1	6.83	1.39	1.32
1	dA	85	PRO	CA-C	-6.83	1.44	1.52
1	eg	200	THR	C-O	-6.83	1.16	1.24
1	eE	103	ASP	CA-CB	6.83	1.64	1.53
1	g9	130	TYR	CA-C	6.83	1.61	1.52
1	gj	134	ILE	CA-C	-6.83	1.44	1.52
1	gG	87	HIS	CG-CD2	6.83	1.43	1.35
1	1M	54	THR	C-N	6.83	1.42	1.33
1	i2	165	VAL	N-CA	6.83	1.54	1.46
1	i5	192	GLN	CA-C	6.83	1.61	1.52
1	kf	132	ARG	N-CA	-6.83	1.38	1.46
1	kL	73	ILE	C-N	6.83	1.42	1.33
1	kP	59	VAL	CA-CB	6.83	1.61	1.54
1	l0	167	ARG	CA-CB	6.83	1.64	1.53
1	ly	14	ALA	C-N	6.83	1.43	1.33
1	2p	203	LYS	CA-C	6.83	1.62	1.52
1	2E	89	GLY	N-CA	6.83	1.54	1.44
1	2O	64	ALA	CA-C	-6.83	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3l	179	GLN	N-CA	-6.83	1.38	1.46
1	5Y	117	TRP	NE1-CE2	-6.83	1.29	1.37
1	6r	227	LYS	CA-C	6.83	1.61	1.52
1	7b	96	MET	CA-C	6.83	1.61	1.52
1	7I	133	TRP	CA-CB	6.83	1.64	1.53
1	85	3	VAL	C-N	6.83	1.42	1.33
1	8s	124	ILE	CA-CB	-6.83	1.46	1.53
1	8F	62	HIS	CG-CD2	6.83	1.43	1.35
1	92	109	SER	N-CA	-6.83	1.37	1.46
1	9n	117	TRP	CA-C	6.83	1.61	1.52
1	9q	184	TRP	N-CA	-6.83	1.38	1.46
1	af	196	PRO	CA-CB	-6.83	1.44	1.53
1	13	204	ALA	CA-CB	6.83	1.64	1.53
1	b6	22	ALA	N-CA	-6.83	1.38	1.46
1	bb	68	MET	C-N	6.83	1.42	1.33
1	c4	175	GLU	CA-CB	6.83	1.62	1.53
1	cs	226	HIS	ND1-CE1	6.83	1.39	1.32
1	d3	111	LEU	C-O	-6.83	1.16	1.24
1	dC	154	ARG	CD-NE	6.83	1.55	1.46
1	eV	131	LYS	CA-CB	6.83	1.64	1.53
1	eX	30	LYS	N-CA	6.83	1.53	1.46
1	f0	129	ILE	CA-C	6.83	1.61	1.52
1	fO	19	THR	C-N	6.83	1.42	1.33
1	w	80	TRP	CA-C	6.83	1.61	1.52
1	gp	217	ALA	CA-C	-6.83	1.43	1.53
1	hx	36	VAL	CA-CB	-6.83	1.45	1.54
1	jj	104	ILE	CA-CB	-6.83	1.46	1.54
1	kl	190	LEU	C-N	6.83	1.41	1.34
1	ko	45	GLU	C-N	6.83	1.41	1.33
1	lx	98	GLU	CA-C	6.83	1.60	1.52
1	lG	51	ASP	CA-CB	6.83	1.64	1.53
1	2p	158	LYS	N-CA	6.83	1.55	1.46
1	2S	202	LEU	CA-CB	6.83	1.64	1.53
1	4u	196	PRO	N-CD	-6.83	1.38	1.47
1	5m	24	VAL	CA-C	6.83	1.62	1.52
1	6F	135	ILE	N-CA	6.83	1.54	1.46
1	6R	4	GLN	CA-C	6.83	1.61	1.52
1	7F	85	PRO	N-CA	-6.83	1.38	1.47
1	9Y	173	ARG	N-CA	6.83	1.54	1.46
1	aG	212	GLU	C-N	6.83	1.42	1.33
1	bg	117	TRP	CA-CB	6.83	1.64	1.53
1	c3	19	THR	N-CA	6.83	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c5	201	ILE	N-CA	-6.83	1.38	1.46
1	ct	186	THR	N-CA	6.83	1.54	1.46
1	cw	15	ILE	CA-C	6.83	1.60	1.52
1	dX	120	HIS	C-N	6.83	1.42	1.33
1	es	142	VAL	CA-C	-6.83	1.44	1.52
1	eE	24	VAL	N-CA	6.83	1.54	1.46
1	eV	128	GLU	C-N	6.83	1.42	1.34
1	f0	192	GLN	CA-C	6.83	1.61	1.52
1	m	87	HIS	CA-CB	6.83	1.62	1.53
1	q	131	LYS	CA-C	6.83	1.61	1.52
1	L	35	GLU	CA-CB	6.83	1.64	1.53
1	gV	204	ALA	N-CA	-6.83	1.37	1.46
1	iE	95	GLN	CA-CB	6.83	1.64	1.53
1	iE	112	GLN	CA-C	-6.83	1.43	1.52
1	iH	106	GLY	C-N	6.83	1.43	1.33
1	j0	18	ARG	NE-CZ	-6.83	1.25	1.33
1	jC	16	SER	N-CA	-6.83	1.37	1.45
1	jZ	162	ARG	C-N	6.83	1.43	1.34
1	2T	120	HIS	ND1-CE1	6.83	1.39	1.32
1	3e	108	THR	CA-C	6.83	1.61	1.52
1	46	98	GLU	N-CA	6.83	1.57	1.46
1	71	134	ILE	CA-CB	6.83	1.62	1.54
1	bc	2	ILE	CA-CB	6.83	1.61	1.54
1	bB	78	ALA	CA-CB	6.83	1.64	1.53
1	d0	225	GLY	CA-C	-6.83	1.45	1.52
1	eD	198	CYS	CA-C	6.83	1.61	1.52
1	eZ	188	THR	C-N	6.83	1.42	1.33
1	gP	42	ALA	N-CA	-6.83	1.38	1.46
1	h6	113	GLU	CA-CB	6.83	1.64	1.53
1	hd	120	HIS	CG-CD2	6.83	1.43	1.35
1	hA	123	PRO	C-N	6.83	1.41	1.33
1	hU	90	PRO	CA-C	6.83	1.60	1.52
1	ij	120	HIS	CB-CG	6.83	1.59	1.50
1	iG	82	ARG	N-CA	6.83	1.55	1.46
1	jC	163	ASP	CA-C	6.83	1.62	1.52
1	k0	90	PRO	CA-C	6.83	1.60	1.52
1	la	160	PRO	C-N	6.83	1.42	1.33
1	2N	161	PHE	CA-CB	6.83	1.65	1.53
1	47	6	LEU	N-CA	6.83	1.54	1.45
1	5q	87	HIS	CG-ND1	-6.83	1.30	1.38
1	6Y	126	VAL	C-N	6.83	1.43	1.33
1	79	151	LEU	C-O	-6.83	1.14	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7H	124	ILE	N-CA	6.83	1.51	1.46
1	7R	108	THR	CA-C	-6.83	1.43	1.52
1	8P	12	HIS	ND1-CE1	6.83	1.39	1.32
1	9b	12	HIS	CE1-NE2	-6.83	1.25	1.32
1	9G	6	LEU	C-N	6.83	1.44	1.33
1	bc	177	ALA	CA-C	6.83	1.61	1.52
1	c7	29	GLU	CA-C	-6.83	1.43	1.52
1	ct	207	PRO	N-CA	-6.83	1.38	1.47
1	cv	4	GLN	CA-CB	6.83	1.63	1.53
1	dC	212	GLU	CA-CB	6.83	1.64	1.53
1	dE	161	PHE	N-CA	6.83	1.54	1.46
1	dU	19	THR	N-CA	6.83	1.54	1.46
1	e5	51	ASP	CA-CB	6.83	1.64	1.53
1	f5	43	LEU	CA-C	6.83	1.62	1.52
1	fa	226	HIS	CE1-NE2	6.83	1.39	1.32
1	fm	86	VAL	N-CA	6.83	1.54	1.46
1	fK	15	ILE	C-N	6.83	1.43	1.33
1	g1	165	VAL	N-CA	-6.83	1.38	1.46
1	7	5	ASN	N-CA	6.83	1.53	1.46
1	1C	96	MET	CA-C	6.83	1.61	1.52
1	gs	198	CYS	N-CA	6.83	1.54	1.46
1	jJ	39	MET	CA-C	6.83	1.61	1.52
1	kB	205	LEU	CA-C	-6.83	1.43	1.52
1	lN	76	GLU	N-CA	6.83	1.54	1.46
1	8g	54	THR	CA-C	6.83	1.61	1.52
1	b9	30	LYS	C-N	6.83	1.40	1.33
1	dh	156	GLY	CA-C	6.83	1.61	1.51
1	eg	37	ILE	CA-C	6.83	1.58	1.52
1	f3	14	ALA	N-CA	-6.83	1.37	1.46
1	fJ	182	LYS	CA-C	-6.83	1.44	1.52
1	1C	127	GLY	N-CA	6.83	1.54	1.45
1	gX	129	ILE	N-CA	-6.83	1.38	1.46
1	j0	200	THR	N-CA	6.83	1.54	1.46
1	ju	114	GLN	N-CA	-6.83	1.38	1.46
1	jP	206	GLY	C-O	-6.83	1.14	1.24
1	21	20	LEU	CA-C	6.83	1.61	1.52
1	2o	195	ASN	CA-C	-6.83	1.45	1.53
1	3D	174	ALA	C-N	6.83	1.42	1.33
1	43	185	MET	CA-C	-6.83	1.44	1.52
1	46	39	MET	C-N	6.83	1.42	1.33
1	4m	89	GLY	CA-C	-6.83	1.42	1.51
1	58	167	ARG	CA-CB	6.83	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	67	219	GLN	C-N	6.83	1.40	1.33
1	8t	163	ASP	CA-C	-6.83	1.44	1.52
1	8Y	119	THR	N-CA	6.83	1.54	1.46
1	Z	31	ALA	CA-C	-6.83	1.47	1.53
1	1e	198	CYS	N-CA	-6.83	1.37	1.46
1	eG	162	ARG	CD-NE	6.83	1.55	1.46
1	fY	9	GLN	CA-CB	6.83	1.64	1.53
1	g5	106	GLY	CA-C	-6.83	1.41	1.51
1	J	172	LEU	N-CA	-6.83	1.38	1.46
1	X	110	THR	CA-C	-6.83	1.43	1.53
1	gz	159	GLU	N-CA	6.82	1.53	1.45
1	gD	45	GLU	CA-C	6.82	1.61	1.52
1	gP	179	GLN	C-N	6.82	1.42	1.33
1	hA	62	HIS	CG-CD2	6.82	1.43	1.35
1	iw	55	MET	CA-CB	6.82	1.64	1.53
1	iY	157	PRO	C-N	6.82	1.43	1.33
1	j6	100	ARG	CA-CB	6.82	1.64	1.53
1	jd	41	SER	CA-CB	6.82	1.64	1.53
1	jg	84	HIS	CE1-NE2	-6.82	1.25	1.32
1	k2	13	GLN	CA-C	6.82	1.60	1.52
1	37	143	ARG	CD-NE	6.82	1.55	1.46
1	3F	227	LYS	CA-CB	6.82	1.64	1.53
1	5i	12	HIS	ND1-CE1	6.82	1.39	1.32
1	7X	43	LEU	C-N	6.82	1.42	1.33
1	8o	195	ASN	CA-CB	6.82	1.64	1.53
1	9y	121	ASN	CA-C	6.82	1.60	1.52
1	9M	170	LYS	CA-C	6.82	1.61	1.52
1	10	206	GLY	CA-C	6.82	1.61	1.51
1	bA	131	LYS	N-CA	-6.82	1.38	1.46
1	bA	191	VAL	CA-C	-6.82	1.44	1.52
1	cz	130	TYR	CA-C	6.82	1.61	1.52
1	cL	66	MET	CA-CB	6.82	1.64	1.53
1	e4	194	ALA	CA-C	6.82	1.61	1.52
1	1r	226	HIS	CE1-NE2	-6.82	1.25	1.32
1	gi	85	PRO	CA-C	6.82	1.60	1.52
1	gV	61	GLY	CA-C	-6.82	1.44	1.52
1	k7	163	ASP	CA-C	-6.82	1.43	1.52
1	lm	96	MET	CA-C	-6.82	1.44	1.52
1	2d	164	TYR	CA-C	6.82	1.61	1.52
1	2q	12	HIS	ND1-CE1	6.82	1.39	1.32
1	2y	69	LEU	CA-C	-6.82	1.44	1.52
1	3p	46	GLY	C-N	6.82	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	53	68	MET	CA-CB	6.82	1.64	1.53
1	87	139	ASN	C-N	6.82	1.42	1.33
1	a3	33	SER	C-N	6.82	1.39	1.33
1	bG	161	PHE	CA-CB	6.82	1.64	1.53
1	df	20	LEU	C-N	6.82	1.42	1.33
1	dx	154	ARG	CA-C	-6.82	1.43	1.52
1	dY	143	ARG	CD-NE	6.82	1.55	1.46
1	f3	101	GLY	N-CA	6.82	1.54	1.45
1	0	120	HIS	ND1-CE1	6.82	1.39	1.32
1	gm	157	PRO	CA-CB	6.82	1.63	1.53
1	gA	43	LEU	CA-CB	6.82	1.64	1.53
1	1I	227	LYS	CA-C	-6.82	1.44	1.53
1	i9	32	PHE	CA-CB	6.82	1.62	1.53
1	kP	98	GLU	C-N	6.82	1.41	1.33
1	l7	44	SER	C-N	6.82	1.40	1.32
1	2n	134	ILE	CA-CB	-6.82	1.46	1.54
1	2C	133	TRP	CA-C	-6.82	1.44	1.52
1	3P	19	THR	CA-C	6.82	1.61	1.52
1	4O	203	LYS	N-CA	-6.82	1.38	1.46
1	6p	226	HIS	CG-ND1	6.82	1.45	1.38
1	7p	213	GLU	N-CA	-6.82	1.38	1.46
1	7W	224	PRO	C-N	6.82	1.42	1.33
1	87	87	HIS	CA-C	-6.82	1.43	1.52
1	89	227	LYS	N-CA	-6.82	1.38	1.46
1	be	23	TRP	C-N	6.82	1.42	1.33
1	1b	171	THR	C-N	6.82	1.42	1.33
1	1i	62	HIS	CE1-NE2	6.82	1.39	1.32
1	dt	29	GLU	CA-C	6.82	1.61	1.52
1	dx	176	GLN	CA-CB	6.82	1.63	1.53
1	eu	153	ILE	CB-CG1	6.82	1.67	1.53
1	eE	72	THR	CA-C	-6.82	1.44	1.52
1	fO	83	LEU	N-CA	-6.82	1.38	1.46
1	gA	190	LEU	CA-C	6.82	1.61	1.52
1	ih	195	ASN	CA-C	6.82	1.60	1.53
1	jE	98	GLU	CA-C	6.82	1.60	1.52
1	l0	103	ASP	CA-CB	6.82	1.64	1.53
1	lH	92	GLU	N-CA	-6.82	1.40	1.46
1	3T	176	GLN	N-CA	-6.82	1.37	1.46
1	5n	58	THR	CA-C	6.82	1.62	1.52
1	5Z	161	PHE	CA-CB	6.82	1.64	1.53
1	e6	8	GLY	CA-C	-6.82	1.42	1.52
1	ei	94	GLY	CA-C	6.82	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	72	THR	N-CA	6.82	1.54	1.46
1	gy	96	MET	CA-C	-6.82	1.44	1.52
1	h0	210	THR	CA-C	-6.82	1.44	1.52
1	hI	70	LYS	CA-C	6.82	1.61	1.52
1	hJ	97	ARG	CD-NE	6.82	1.55	1.46
1	iD	72	THR	CA-C	6.82	1.61	1.52
1	iH	162	ARG	C-N	6.82	1.43	1.33
1	jd	85	PRO	N-CA	6.82	1.52	1.47
1	25	141	ILE	C-N	6.82	1.42	1.33
1	lb	163	ASP	N-CA	-6.82	1.37	1.46
1	2k	221	VAL	N-CA	6.82	1.54	1.46
1	2D	190	LEU	C-N	6.82	1.43	1.34
1	2T	30	LYS	CA-CB	6.82	1.65	1.53
1	34	214	MET	CA-C	-6.82	1.44	1.52
1	3A	33	SER	CA-C	6.82	1.59	1.52
1	3Z	124	ILE	CA-C	6.82	1.58	1.53
1	5k	155	GLN	CA-CB	6.82	1.62	1.53
1	5x	71	GLU	CA-C	6.82	1.61	1.52
1	8q	31	ALA	CA-C	6.82	1.61	1.52
1	99	173	ARG	CD-NE	6.82	1.55	1.46
1	16	100	ARG	CD-NE	6.82	1.55	1.46
1	c7	113	GLU	N-CA	-6.82	1.38	1.46
1	cr	75	GLU	CA-C	6.82	1.61	1.52
1	cy	179	GLN	N-CA	-6.82	1.38	1.46
1	e5	226	HIS	CA-CB	6.82	1.63	1.53
1	fb	186	THR	CA-C	-6.82	1.44	1.52
1	fd	87	HIS	CG-ND1	6.82	1.45	1.38
1	hN	62	HIS	CE1-NE2	6.82	1.39	1.32
1	i2	65	ALA	CA-CB	6.82	1.64	1.53
1	iA	87	HIS	CA-C	-6.82	1.44	1.52
1	ja	173	ARG	CA-C	6.82	1.61	1.52
1	jN	14	ALA	CA-C	-6.82	1.43	1.52
1	jT	188	THR	CA-C	-6.82	1.46	1.52
1	2w	12	HIS	ND1-CE1	6.82	1.39	1.32
1	3D	169	TYR	CA-C	6.82	1.61	1.52
1	3F	135	ILE	CA-CB	-6.82	1.46	1.54
1	3S	87	HIS	CA-CB	6.82	1.64	1.53
1	4v	96	MET	N-CA	6.82	1.54	1.45
1	53	117	TRP	NE1-CE2	6.82	1.45	1.37
1	5h	228	ALA	CA-C	6.82	1.61	1.52
1	6s	25	LYS	CA-C	6.82	1.61	1.52
1	78	84	HIS	ND1-CE1	6.82	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7H	175	GLU	C-N	6.82	1.43	1.33
1	7I	123	PRO	CA-C	-6.82	1.45	1.52
1	8c	193	ASN	CA-CB	6.82	1.62	1.53
1	9T	66	MET	N-CA	6.82	1.55	1.46
1	a4	37	ILE	CA-CB	-6.82	1.49	1.53
1	bA	110	THR	CA-CB	6.82	1.64	1.53
1	bZ	87	HIS	CA-C	6.82	1.61	1.52
1	cU	50	GLN	CA-CB	6.82	1.64	1.53
1	e1	223	GLY	C-N	-6.82	1.25	1.33
1	eA	8	GLY	N-CA	6.82	1.55	1.45
1	eJ	92	GLU	CA-C	6.82	1.60	1.52
1	fa	71	GLU	CA-CB	6.82	1.64	1.53
1	v	65	ALA	CA-C	-6.82	1.44	1.52
1	D	37	ILE	CA-C	6.82	1.58	1.52
1	js	44	SER	CA-CB	6.81	1.62	1.53
1	61	168	PHE	N-CA	6.81	1.54	1.46
1	6s	80	TRP	NE1-CE2	-6.81	1.29	1.37
1	70	215	MET	CA-CB	6.81	1.64	1.53
1	7g	161	PHE	N-CA	-6.81	1.38	1.46
1	9F	181	VAL	CA-C	6.81	1.61	1.53
1	aH	120	HIS	N-CA	-6.81	1.37	1.46
1	dJ	164	TYR	CA-CB	6.81	1.64	1.53
1	1s	168	PHE	CA-C	-6.81	1.44	1.52
1	fO	49	PRO	C-N	6.81	1.42	1.33
1	V	98	GLU	CA-C	6.81	1.60	1.53
1	gA	149	SER	C-N	6.81	1.41	1.34
1	jq	100	ARG	CA-C	6.81	1.61	1.52
1	k1	87	HIS	CB-CG	6.81	1.59	1.50
1	kO	37	ILE	CA-CB	6.81	1.58	1.53
1	25	104	ILE	CA-CB	6.81	1.62	1.54
1	l6	47	ALA	CA-C	6.81	1.61	1.52
1	lr	120	HIS	CA-C	6.81	1.62	1.53
1	2O	139	ASN	CA-CB	6.81	1.64	1.53
1	4S	221	VAL	C-N	6.81	1.43	1.33
1	4T	220	GLY	CA-C	-6.81	1.42	1.51
1	7i	57	ASN	CA-CB	6.81	1.64	1.53
1	86	6	LEU	CA-CB	6.81	1.62	1.53
1	8g	16	SER	CA-CB	6.81	1.63	1.53
1	98	223	GLY	N-CA	6.81	1.54	1.44
1	9c	210	THR	CA-C	6.81	1.61	1.52
1	ab	59	VAL	CA-C	-6.81	1.45	1.53
1	bU	183	ASN	CA-C	6.81	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ci	104	ILE	C-N	6.81	1.42	1.33
1	1f	111	LEU	C-N	6.81	1.42	1.33
1	dn	213	GLU	C-O	-6.81	1.16	1.24
1	1A	129	ILE	CA-CB	6.81	1.62	1.54
1	V	82	ARG	CA-CB	6.81	1.64	1.53
1	gx	175	GLU	CA-CB	6.81	1.64	1.53
1	kE	84	HIS	C-O	-6.81	1.17	1.24
1	lO	209	ALA	CA-C	6.81	1.61	1.52
1	4o	127	GLY	CA-C	6.81	1.59	1.52
1	4s	54	THR	C-N	6.81	1.42	1.33
1	6R	185	MET	N-CA	6.81	1.54	1.46
1	79	84	HIS	ND1-CE1	6.81	1.39	1.32
1	aH	71	GLU	CA-C	-6.81	1.43	1.52
1	aX	133	TRP	CZ2-CH2	6.81	1.50	1.37
1	d5	156	GLY	C-N	-6.81	1.27	1.33
1	fS	61	GLY	C-N	6.81	1.43	1.33
1	4	155	GLN	CA-CB	6.81	1.64	1.53
1	8	73	ILE	CA-CB	-6.81	1.46	1.54
1	hk	187	GLU	CA-CB	6.81	1.64	1.53
1	1J	117	TRP	CA-C	-6.81	1.44	1.52
1	hC	108	THR	CA-CB	6.81	1.64	1.53
1	i3	18	ARG	C-N	6.81	1.42	1.33
1	id	131	LYS	CA-CB	6.81	1.64	1.53
1	iC	48	THR	CA-C	6.81	1.62	1.53
1	lP	229	ARG	CD-NE	6.81	1.55	1.46
1	2C	87	HIS	C-O	-6.81	1.15	1.23
1	2O	80	TRP	NE1-CE2	-6.81	1.29	1.37
1	3e	175	GLU	N-CA	-6.81	1.37	1.46
1	3Z	75	GLU	CA-CB	6.81	1.64	1.53
1	4K	201	ILE	CA-CB	6.81	1.62	1.54
1	5c	135	ILE	CA-C	-6.81	1.44	1.52
1	6k	40	PHE	CA-C	6.81	1.61	1.52
1	6v	78	ALA	CA-C	6.81	1.61	1.52
1	6K	154	ARG	CD-NE	6.81	1.55	1.46
1	8b	154	ARG	CA-C	-6.81	1.44	1.52
1	9C	40	PHE	N-CA	-6.81	1.38	1.46
1	9T	125	PRO	CA-CB	6.81	1.58	1.53
1	9U	144	MET	CA-C	6.81	1.61	1.52
1	9Z	15	ILE	N-CA	6.81	1.54	1.46
1	11	110	THR	N-CA	6.81	1.54	1.45
1	19	178	SER	N-CA	6.81	1.54	1.46
1	c7	214	MET	CA-CB	6.81	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cG	174	ALA	CA-CB	6.81	1.64	1.53
1	e7	176	GLN	CA-C	-6.81	1.43	1.52
1	er	92	GLU	C-N	-6.81	1.27	1.34
1	fs	39	MET	C-N	6.81	1.42	1.33
1	fA	129	ILE	CA-C	6.81	1.61	1.52
1	fS	159	GLU	C-N	6.81	1.42	1.33
1	P	59	VAL	C-O	-6.81	1.17	1.24
1	gc	145	TYR	C-N	6.81	1.43	1.33
1	hu	111	LEU	CA-C	-6.81	1.44	1.52
1	hI	108	THR	CA-C	-6.81	1.43	1.52
1	k1	37	ILE	CA-C	6.81	1.60	1.52
1	kQ	53	ASN	C-N	6.81	1.42	1.33
1	lv	102	SER	CA-CB	6.81	1.64	1.53
1	lJ	12	HIS	CB-CG	6.81	1.59	1.50
1	2w	63	GLN	N-CA	-6.81	1.38	1.46
1	2x	180	GLU	N-CA	-6.81	1.37	1.46
1	4C	37	ILE	CA-C	6.81	1.60	1.52
1	4Z	2	ILE	N-CA	-6.81	1.38	1.46
1	5K	103	ASP	C-N	6.81	1.42	1.33
1	67	227	LYS	CA-CB	6.81	1.62	1.53
1	6L	161	PHE	CA-C	6.81	1.61	1.52
1	6X	36	VAL	C-N	6.81	1.41	1.33
1	8h	63	GLN	C-N	6.81	1.42	1.33
1	8D	18	ARG	NE-CZ	6.81	1.40	1.33
1	97	80	TRP	NE1-CE2	-6.81	1.29	1.37
1	af	49	PRO	N-CA	-6.81	1.38	1.47
1	am	138	LEU	C-N	6.81	1.43	1.34
1	at	195	ASN	C-N	6.81	1.43	1.33
1	az	208	ALA	CA-C	-6.81	1.43	1.52
1	1a	73	ILE	C-N	6.81	1.42	1.33
1	c9	77	ALA	N-CA	-6.81	1.37	1.46
1	cm	91	ILE	C-N	6.81	1.44	1.33
1	cx	226	HIS	ND1-CE1	6.81	1.39	1.32
1	cy	154	ARG	CD-NE	6.81	1.55	1.46
1	dO	91	ILE	CA-CB	-6.81	1.46	1.53
1	dX	192	GLN	N-CA	-6.81	1.37	1.46
1	ec	64	ALA	C-N	6.81	1.43	1.34
1	em	53	ASN	CA-C	6.81	1.61	1.52
1	fc	184	TRP	C-N	6.81	1.42	1.33
1	fk	134	ILE	N-CA	6.81	1.54	1.46
1	k	178	SER	CA-CB	6.81	1.64	1.53
1	ie	22	ALA	CA-C	6.81	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2B	124	ILE	CA-C	6.81	1.58	1.53
1	4C	40	PHE	CA-CB	6.81	1.64	1.53
1	8f	142	VAL	CA-CB	-6.81	1.46	1.54
1	Y	78	ALA	CA-C	6.81	1.61	1.52
1	cr	199	LYS	CA-C	-6.81	1.44	1.52
1	1p	216	THR	CA-CB	6.81	1.64	1.53
1	w	90	PRO	CA-CB	-6.81	1.44	1.53
1	K	87	HIS	CD2-NE2	6.81	1.45	1.37
1	g8	179	GLN	CA-CB	6.80	1.64	1.53
1	hw	226	HIS	CD2-NE2	6.80	1.45	1.37
1	hF	18	ARG	CD-NE	6.80	1.55	1.46
1	iU	65	ALA	CA-CB	6.80	1.63	1.53
1	jd	170	LYS	CA-CB	6.80	1.64	1.53
1	kC	45	GLU	CA-CB	6.80	1.64	1.53
1	kD	168	PHE	N-CA	6.80	1.54	1.46
1	ld	198	CYS	N-CA	6.80	1.55	1.46
1	2n	32	PHE	CA-CB	6.80	1.61	1.53
1	2u	37	ILE	CA-CB	6.80	1.58	1.53
1	2W	219	GLN	N-CA	-6.80	1.38	1.46
1	3d	3	VAL	CA-CB	-6.80	1.45	1.54
1	4x	143	ARG	CD-NE	6.80	1.55	1.46
1	51	74	ASN	CA-CB	6.80	1.64	1.53
1	5P	179	GLN	C-N	6.80	1.42	1.33
1	62	179	GLN	CA-CB	6.80	1.64	1.53
1	68	45	GLU	N-CA	6.80	1.54	1.46
1	6w	64	ALA	C-O	-6.80	1.16	1.24
1	76	77	ALA	C-N	6.80	1.43	1.33
1	7j	95	GLN	CA-C	6.80	1.61	1.52
1	7P	134	ILE	CB-CG1	6.80	1.67	1.53
1	a1	229	ARG	CD-NE	6.80	1.55	1.46
1	bR	221	VAL	CA-CB	-6.80	1.46	1.54
1	cd	97	ARG	C-N	6.80	1.40	1.33
1	ct	35	GLU	CA-CB	6.80	1.64	1.53
1	cR	53	ASN	CA-C	-6.80	1.44	1.52
1	f7	212	GLU	C-N	6.80	1.42	1.33
1	o	214	MET	C-N	-6.80	1.24	1.33
1	js	173	ARG	C-N	6.80	1.44	1.33
1	jF	52	LEU	CA-C	6.80	1.61	1.52
1	2b	23	TRP	NE1-CE2	6.80	1.45	1.37
1	2y	190	LEU	CA-CB	6.80	1.63	1.53
1	4d	162	ARG	CA-C	6.80	1.61	1.52
1	4x	45	GLU	CA-C	-6.80	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4T	214	MET	N-CA	-6.80	1.37	1.46
1	7c	169	TYR	CA-CB	6.80	1.64	1.53
1	ay	120	HIS	ND1-CE1	6.80	1.39	1.32
1	bC	21	ASN	CA-C	6.80	1.61	1.52
1	cQ	129	ILE	CA-C	6.80	1.61	1.52
1	ga	116	GLY	CA-C	6.80	1.59	1.52
1	go	75	GLU	N-CA	-6.80	1.38	1.46
1	gp	188	THR	CA-C	-6.80	1.47	1.52
1	hJ	146	SER	CA-CB	6.80	1.66	1.53
1	1L	52	LEU	CB-CG	6.80	1.67	1.53
1	hQ	57	ASN	CA-C	6.80	1.61	1.52
1	j3	138	LEU	CA-C	6.80	1.61	1.52
1	jj	156	GLY	C-N	-6.80	1.25	1.34
1	jE	105	ALA	CA-CB	6.80	1.64	1.53
1	jS	31	ALA	C-N	6.80	1.43	1.33
1	kb	195	ASN	CA-CB	6.80	1.63	1.53
1	kn	226	HIS	N-CA	-6.80	1.37	1.46
1	kq	75	GLU	CA-C	6.80	1.61	1.52
1	ll	143	ARG	CA-C	6.80	1.59	1.52
1	2t	124	ILE	CA-C	6.80	1.60	1.52
1	2E	201	ILE	CA-C	6.80	1.61	1.52
1	3H	132	ARG	CD-NE	6.80	1.55	1.46
1	4X	12	HIS	CB-CG	6.80	1.59	1.50
1	4X	157	PRO	C-O	-6.80	1.16	1.24
1	5i	167	ARG	NE-CZ	-6.80	1.25	1.33
1	8g	84	HIS	CA-C	6.80	1.60	1.52
1	8N	24	VAL	CA-C	-6.80	1.44	1.52
1	a2	167	ARG	CA-CB	6.80	1.63	1.53
1	c1	84	HIS	ND1-CE1	6.80	1.39	1.32
1	cZ	190	LEU	C-N	6.80	1.40	1.33
1	eJ	186	THR	CA-C	-6.80	1.44	1.52
1	fo	34	PRO	N-CA	6.80	1.56	1.47
1	fU	103	ASP	C-O	-6.80	1.16	1.24
1	1D	106	GLY	CA-C	-6.80	1.42	1.51
1	hs	25	LYS	N-CA	6.80	1.55	1.46
1	1M	20	LEU	N-CA	6.80	1.54	1.46
1	jd	142	VAL	CA-CB	6.80	1.62	1.54
1	jp	3	VAL	N-CA	6.80	1.54	1.46
1	jQ	227	LYS	C-N	6.80	1.41	1.33
1	jT	126	VAL	CA-C	6.80	1.61	1.52
1	kb	70	LYS	CA-C	6.80	1.61	1.52
1	22	114	GLN	C-N	6.80	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3H	178	SER	CA-C	6.80	1.61	1.52
1	3J	96	MET	C-N	6.80	1.42	1.33
1	3O	126	VAL	CA-CB	-6.80	1.46	1.54
1	5a	197	ASP	CA-C	6.80	1.61	1.52
1	5k	4	GLN	CA-C	6.80	1.61	1.52
1	63	78	ALA	CA-CB	6.80	1.64	1.53
1	6Z	222	GLY	CA-C	6.80	1.59	1.52
1	7k	21	ASN	N-CA	-6.80	1.38	1.46
1	87	164	TYR	CA-C	6.80	1.61	1.52
1	8C	178	SER	N-CA	6.80	1.54	1.46
1	9X	132	ARG	N-CA	-6.80	1.38	1.46
1	Z	123	PRO	C-N	6.80	1.41	1.33
1	ba	124	ILE	CA-CB	6.80	1.60	1.53
1	bj	224	PRO	CA-C	6.80	1.60	1.52
1	bA	16	SER	CA-C	6.80	1.60	1.52
1	bJ	54	THR	CA-C	-6.80	1.44	1.52
1	bJ	119	THR	CA-C	-6.80	1.44	1.52
1	bJ	162	ARG	CA-C	6.80	1.61	1.52
1	1g	103	ASP	N-CA	6.80	1.55	1.46
1	1g	163	ASP	CA-CB	6.80	1.64	1.53
1	dE	134	ILE	CA-CB	6.80	1.62	1.54
1	ea	42	ALA	N-CA	-6.80	1.38	1.46
1	ej	20	LEU	CA-C	6.80	1.61	1.52
1	1r	141	ILE	CA-C	-6.80	1.44	1.52
1	eB	55	MET	CA-C	6.80	1.62	1.52
1	fJ	44	SER	C-N	6.80	1.43	1.33
1	9	180	GLU	CA-C	6.80	1.61	1.52
1	1E	115	ILE	CA-CB	-6.80	1.46	1.54
1	jN	181	VAL	CA-CB	-6.80	1.45	1.54
1	4P	87	HIS	CG-ND1	6.80	1.45	1.38
1	73	88	ALA	CA-C	-6.80	1.44	1.52
1	8N	83	LEU	CA-C	6.80	1.61	1.52
1	bD	154	ARG	CD-NE	6.80	1.55	1.46
1	bI	84	HIS	ND1-CE1	6.80	1.39	1.32
1	eo	113	GLU	C-N	6.80	1.43	1.33
1	f7	217	ALA	CA-CB	6.80	1.64	1.53
1	1D	146	SER	C-N	-6.80	1.26	1.34
1	hC	98	GLU	CA-C	-6.80	1.45	1.53
1	hY	37	ILE	CA-C	-6.80	1.46	1.52
1	j0	10	MET	N-CA	6.80	1.54	1.46
1	ke	109	SER	CA-C	-6.80	1.44	1.52
1	ky	21	ASN	CA-CB	6.80	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	26	84	HIS	ND1-CE1	6.80	1.39	1.32
1	26	158	LYS	N-CA	-6.80	1.38	1.46
1	2z	66	MET	C-N	6.80	1.42	1.33
1	3a	26	VAL	CA-C	6.80	1.61	1.52
1	5L	201	ILE	N-CA	-6.80	1.37	1.46
1	5Y	74	ASN	CA-CB	6.80	1.64	1.53
1	ae	64	ALA	CA-C	6.80	1.61	1.52
1	13	84	HIS	CA-C	6.80	1.60	1.53
1	1d	128	GLU	C-O	-6.80	1.16	1.24
1	cw	113	GLU	N-CA	-6.80	1.38	1.46
1	cF	84	HIS	ND1-CE1	6.80	1.39	1.32
1	cV	136	LEU	N-CA	-6.80	1.37	1.46
1	ef	59	VAL	CA-C	-6.80	1.45	1.52
1	eB	153	ILE	CA-CB	-6.80	1.46	1.54
1	C	87	HIS	ND1-CE1	6.80	1.39	1.32
1	gX	154	ARG	CA-C	-6.79	1.44	1.52
1	hw	40	PHE	CA-C	6.79	1.61	1.52
1	iO	214	MET	C-N	6.79	1.44	1.33
1	je	45	GLU	N-CA	6.79	1.54	1.46
1	kV	214	MET	N-CA	6.79	1.54	1.46
1	lJ	132	ARG	N-CA	-6.79	1.38	1.46
1	4m	211	LEU	CA-C	-6.79	1.44	1.52
1	73	34	PRO	CA-C	6.79	1.62	1.52
1	8g	184	TRP	CA-C	6.79	1.61	1.52
1	bT	12	HIS	CA-CB	6.79	1.62	1.53
1	1i	120	HIS	CD2-NE2	6.79	1.45	1.37
1	er	87	HIS	ND1-CE1	6.79	1.39	1.32
1	o	170	LYS	CA-C	-6.79	1.44	1.52
1	i6	26	VAL	CA-CB	-6.79	1.46	1.54
1	iR	108	THR	CA-C	-6.79	1.43	1.52
1	kE	209	ALA	CA-CB	6.79	1.65	1.53
1	24	134	ILE	C-N	6.79	1.41	1.34
1	26	37	ILE	CA-C	6.79	1.59	1.52
1	2p	99	PRO	CA-C	-6.79	1.44	1.52
1	2C	225	GLY	C-N	6.79	1.43	1.33
1	4l	216	THR	N-CA	6.79	1.54	1.46
1	4t	202	LEU	N-CA	6.79	1.54	1.46
1	6X	227	LYS	CA-C	6.79	1.62	1.53
1	7K	62	HIS	CA-C	-6.79	1.44	1.53
1	8a	142	VAL	CA-CB	-6.79	1.46	1.54
1	8x	5	ASN	CA-C	6.79	1.61	1.52
1	9D	74	ASN	CA-C	6.79	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9Z	202	LEU	CA-C	6.79	1.61	1.52
1	cw	81	ASP	CA-CB	6.79	1.64	1.53
1	e1	217	ALA	CA-C	6.79	1.61	1.52
1	1s	111	LEU	CA-CB	6.79	1.64	1.53
1	eL	91	ILE	N-CA	6.79	1.53	1.46
1	a	130	TYR	N-CA	-6.79	1.37	1.46
1	C	224	PRO	CA-C	-6.79	1.44	1.52
1	8	80	TRP	NE1-CE2	-6.79	1.29	1.37
1	hg	77	ALA	N-CA	-6.79	1.37	1.46
1	hs	96	MET	N-CA	-6.79	1.37	1.46
1	hA	10	MET	CA-CB	6.79	1.64	1.53
1	hM	138	LEU	CA-CB	6.79	1.64	1.53
1	hY	77	ALA	CA-C	-6.79	1.44	1.52
1	hZ	120	HIS	CE1-NE2	-6.79	1.25	1.32
1	iL	168	PHE	N-CA	-6.79	1.38	1.46
1	j2	184	TRP	CD2-CE3	-6.79	1.29	1.40
1	kW	222	GLY	C-N	6.79	1.43	1.33
1	kZ	33	SER	N-CA	-6.79	1.36	1.45
1	l6	36	VAL	CA-C	6.79	1.61	1.52
1	lf	54	THR	CA-C	-6.79	1.43	1.52
1	2w	163	ASP	CA-CB	6.79	1.63	1.53
1	2X	28	GLU	N-CA	-6.79	1.37	1.46
1	5u	153	ILE	CA-CB	6.79	1.62	1.54
1	5W	21	ASN	CA-CB	6.79	1.64	1.53
1	63	183	ASN	N-CA	-6.79	1.38	1.46
1	6u	147	PRO	C-N	-6.79	1.25	1.33
1	6G	103	ASP	C-N	6.79	1.42	1.33
1	7Z	126	VAL	N-CA	-6.79	1.38	1.46
1	83	126	VAL	CA-CB	-6.79	1.46	1.54
1	8c	69	LEU	CA-C	6.79	1.61	1.52
1	8V	57	ASN	CA-C	6.79	1.62	1.52
1	9E	12	HIS	CE1-NE2	-6.79	1.25	1.32
1	9H	2	ILE	CA-CB	6.79	1.62	1.54
1	9S	78	ALA	CA-C	6.79	1.61	1.52
1	a0	42	ALA	C-N	6.79	1.42	1.33
1	bt	204	ALA	CA-C	6.79	1.61	1.52
1	c3	90	PRO	CA-C	6.79	1.60	1.52
1	1c	208	ALA	N-CA	-6.79	1.38	1.46
1	dT	153	ILE	CA-C	-6.79	1.45	1.53
1	dZ	226	HIS	CB-CG	6.79	1.59	1.50
1	ew	143	ARG	CD-NE	6.79	1.55	1.46
1	eZ	178	SER	C-N	6.79	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f6	201	ILE	CA-CB	-6.79	1.46	1.54
1	fb	23	TRP	CA-CB	-6.79	1.42	1.53
1	fD	56	LEU	C-N	6.79	1.42	1.33
1	fJ	80	TRP	NE1-CE2	-6.79	1.29	1.37
1	fZ	71	GLU	C-N	6.79	1.43	1.34
1	m	59	VAL	CA-CB	-6.79	1.46	1.54
1	hQ	162	ARG	CD-NE	6.79	1.55	1.46
1	iY	162	ARG	CD-NE	6.79	1.55	1.46
1	jM	12	HIS	ND1-CE1	6.79	1.39	1.32
1	kt	119	THR	N-CA	6.79	1.54	1.46
1	3a	118	MET	CA-CB	6.79	1.65	1.53
1	5C	151	LEU	N-CA	-6.79	1.37	1.46
1	7b	12	HIS	ND1-CE1	6.79	1.39	1.32
1	7X	99	PRO	CA-CB	6.79	1.63	1.53
1	7Z	91	ILE	N-CA	-6.79	1.38	1.46
1	8h	133	TRP	CA-CB	6.79	1.63	1.53
1	9h	44	SER	CA-CB	6.79	1.64	1.53
1	9Q	184	TRP	N-CA	6.79	1.54	1.46
1	a5	137	GLY	C-N	6.79	1.42	1.33
1	15	27	VAL	CA-CB	-6.79	1.46	1.54
1	cd	52	LEU	CA-C	6.79	1.61	1.52
1	cJ	162	ARG	CD-NE	6.79	1.55	1.46
1	cT	226	HIS	ND1-CE1	6.79	1.39	1.32
1	dz	184	TRP	CA-CB	6.79	1.64	1.53
1	dH	61	GLY	N-CA	6.79	1.53	1.45
1	gm	2	ILE	CA-C	6.79	1.60	1.52
1	hV	88	ALA	C-N	6.79	1.43	1.33
1	i4	19	THR	C-N	6.79	1.42	1.33
1	jm	139	ASN	C-O	6.79	1.31	1.24
1	jQ	175	GLU	N-CA	-6.79	1.37	1.46
1	2z	120	HIS	ND1-CE1	6.79	1.39	1.32
1	5d	104	ILE	CA-C	6.79	1.61	1.52
1	7L	97	ARG	N-CA	-6.79	1.38	1.46
1	8a	182	LYS	CA-C	-6.79	1.44	1.52
1	8Z	119	THR	CA-CB	6.79	1.64	1.53
1	a3	28	GLU	CA-CB	6.79	1.63	1.53
1	bF	118	MET	CA-C	-6.79	1.43	1.52
1	bM	146	SER	CA-CB	-6.79	1.43	1.53
1	cG	129	ILE	CA-CB	6.79	1.62	1.54
1	eX	37	ILE	CA-CB	6.79	1.58	1.53
1	c	3	VAL	CA-C	6.79	1.60	1.52
1	j	28	GLU	N-CA	-6.79	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	68	MET	N-CA	6.79	1.54	1.46
1	T	38	PRO	CA-C	6.79	1.63	1.52
1	U	178	SER	C-N	6.79	1.42	1.33
1	gv	193	ASN	CA-C	-6.79	1.43	1.52
1	hH	159	GLU	CA-C	6.79	1.59	1.52
1	i4	146	SER	C-N	-6.79	1.27	1.33
1	ij	11	VAL	C-N	6.79	1.42	1.33
1	6K	64	ALA	C-O	-6.79	1.16	1.24
1	7G	184	TRP	NE1-CE2	-6.79	1.29	1.37
1	a3	112	GLN	CA-CB	6.79	1.63	1.53
1	aM	192	GLN	CA-C	6.79	1.62	1.52
1	bo	117	TRP	CA-CB	6.79	1.64	1.53
1	n	117	TRP	CA-C	-6.79	1.44	1.52
1	gP	192	GLN	C-N	-6.79	1.25	1.33
1	hk	226	HIS	ND1-CE1	6.79	1.39	1.32
1	hG	200	THR	N-CA	6.79	1.54	1.46
1	ii	17	PRO	C-N	6.79	1.42	1.33
1	iH	87	HIS	CD2-NE2	6.79	1.45	1.37
1	jL	200	THR	N-CA	-6.79	1.38	1.46
1	jP	148	THR	CA-C	-6.79	1.44	1.52
1	kJ	134	ILE	CA-C	6.79	1.61	1.52
1	kM	143	ARG	CD-NE	6.79	1.55	1.46
1	2x	202	LEU	N-CA	6.79	1.54	1.46
1	5n	19	THR	CA-C	-6.79	1.44	1.52
1	5p	21	ASN	CA-CB	6.79	1.64	1.53
1	5s	48	THR	CA-C	6.79	1.60	1.53
1	5J	212	GLU	CA-C	6.79	1.61	1.52
1	7R	114	GLN	CA-C	6.79	1.61	1.52
1	87	16	SER	CA-CB	6.79	1.63	1.53
1	8J	21	ASN	C-N	6.79	1.42	1.33
1	97	136	LEU	C-N	6.79	1.42	1.34
1	9m	4	GLN	CA-CB	6.79	1.65	1.53
1	18	77	ALA	CA-C	6.79	1.61	1.52
1	c2	79	GLU	CA-C	-6.79	1.44	1.52
1	cm	79	GLU	N-CA	6.79	1.54	1.46
1	cU	214	MET	CA-CB	6.79	1.63	1.53
1	dW	24	VAL	CA-C	6.79	1.61	1.52
1	ek	98	GLU	CA-C	6.79	1.61	1.53
1	eO	80	TRP	CA-CB	6.79	1.63	1.53
1	g3	91	ILE	CB-CG1	6.79	1.67	1.53
1	i	118	MET	N-CA	-6.79	1.37	1.46
1	gK	189	LEU	CA-C	6.78	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jM	47	ALA	CA-C	6.78	1.62	1.52
1	kE	61	GLY	C-N	6.78	1.43	1.33
1	2k	219	GLN	CA-CB	6.78	1.64	1.53
1	3A	166	ASP	CA-CB	6.78	1.63	1.53
1	3R	161	PHE	CA-CB	6.78	1.65	1.53
1	5b	88	ALA	C-N	6.78	1.43	1.33
1	5G	166	ASP	CA-C	6.78	1.61	1.52
1	6b	230	VAL	CA-C	6.78	1.61	1.52
1	6r	117	TRP	NE1-CE2	-6.78	1.29	1.37
1	6X	127	GLY	CA-C	-6.78	1.44	1.52
1	8J	95	GLN	CA-CB	6.78	1.64	1.53
1	9F	65	ALA	C-N	6.78	1.42	1.33
1	aj	51	ASP	N-CA	6.78	1.54	1.46
1	an	80	TRP	CA-CB	6.78	1.63	1.53
1	be	52	LEU	C-N	6.78	1.42	1.33
1	bP	59	VAL	N-CA	6.78	1.54	1.46
1	bY	187	GLU	C-N	6.78	1.41	1.33
1	cC	44	SER	N-CA	6.78	1.54	1.46
1	dt	45	GLU	CA-C	6.78	1.62	1.52
1	dP	37	ILE	CA-C	-6.78	1.45	1.52
1	dX	60	GLY	N-CA	6.78	1.55	1.45
1	fh	128	GLU	CA-C	-6.78	1.44	1.52
1	fA	84	HIS	C-N	6.78	1.41	1.33
1	fD	145	TYR	C-N	6.78	1.39	1.33
1	gS	222	GLY	CA-C	-6.78	1.43	1.52
1	jb	189	LEU	N-CA	-6.78	1.38	1.46
1	jZ	54	THR	CA-C	6.78	1.61	1.52
1	jZ	165	VAL	CA-CB	-6.78	1.46	1.54
1	k3	94	GLY	N-CA	6.78	1.53	1.44
1	kq	37	ILE	CA-CB	6.78	1.58	1.54
1	kU	2	ILE	CA-CB	-6.78	1.46	1.54
1	l4	132	ARG	NE-CZ	-6.78	1.25	1.33
1	67	188	THR	CA-C	-6.78	1.47	1.52
1	7X	129	ILE	CA-C	6.78	1.61	1.52
1	81	178	SER	C-N	6.78	1.42	1.33
1	11	65	ALA	C-N	6.78	1.42	1.33
1	b5	159	GLU	CA-C	6.78	1.60	1.52
1	cc	166	ASP	N-CA	-6.78	1.38	1.46
1	cN	23	TRP	N-CA	-6.78	1.38	1.46
1	d7	38	PRO	C-N	6.78	1.42	1.33
1	da	62	HIS	CA-C	6.78	1.61	1.53
1	do	221	VAL	CA-CB	6.78	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e7	17	PRO	C-N	6.78	1.42	1.33
1	h8	50	GLN	C-N	-6.78	1.24	1.33
1	hx	202	LEU	C-N	6.78	1.42	1.33
1	hT	10	MET	CA-C	-6.78	1.44	1.52
1	j5	148	THR	N-CA	6.78	1.54	1.46
1	1Y	166	ASP	CA-CB	6.78	1.63	1.53
1	k3	162	ARG	C-N	6.78	1.42	1.33
1	ld	226	HIS	CA-C	-6.78	1.44	1.52
1	lC	35	GLU	C-N	6.78	1.40	1.33
1	2M	47	ALA	N-CA	-6.78	1.37	1.45
1	46	226	HIS	C-N	6.78	1.42	1.33
1	4h	204	ALA	N-CA	-6.78	1.38	1.46
1	4i	144	MET	CA-C	6.78	1.61	1.52
1	4k	42	ALA	CA-C	6.78	1.61	1.52
1	55	219	GLN	CA-C	-6.78	1.43	1.52
1	5N	195	ASN	CA-C	-6.78	1.46	1.53
1	6c	173	ARG	CD-NE	6.78	1.55	1.46
1	8z	189	LEU	N-CA	6.78	1.54	1.46
1	9t	230	VAL	CA-C	6.78	1.60	1.52
1	10	48	THR	CA-C	-6.78	1.45	1.53
1	bH	100	ARG	CD-NE	6.78	1.55	1.46
1	bH	143	ARG	CD-NE	6.78	1.55	1.46
1	bQ	134	ILE	N-CA	6.78	1.54	1.46
1	cr	168	PHE	CA-C	6.78	1.61	1.52
1	cw	97	ARG	CD-NE	6.78	1.55	1.46
1	cx	87	HIS	ND1-CE1	6.78	1.39	1.32
1	cA	119	THR	C-N	6.78	1.42	1.33
1	cZ	213	GLU	CA-CB	6.78	1.64	1.53
1	dh	92	GLU	N-CA	-6.78	1.39	1.46
1	du	100	ARG	CA-C	6.78	1.62	1.53
1	dU	125	PRO	CA-CB	6.78	1.63	1.53
1	fh	87	HIS	ND1-CE1	6.78	1.39	1.32
1	fm	42	ALA	CA-C	6.78	1.61	1.52
1	fn	204	ALA	N-CA	-6.78	1.38	1.46
1	p	140	LYS	C-N	6.78	1.42	1.34
1	4	157	PRO	CA-CB	6.78	1.63	1.53
1	X	74	ASN	N-CA	-6.78	1.37	1.46
1	1K	108	THR	N-CA	6.78	1.54	1.46
1	id	16	SER	CA-C	-6.78	1.45	1.52
1	jx	4	GLN	C-N	6.78	1.43	1.33
1	2e	27	VAL	CA-CB	-6.78	1.46	1.54
1	3t	200	THR	C-N	6.78	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3x	37	ILE	N-CA	-6.78	1.38	1.46
1	5I	36	VAL	N-CA	6.78	1.55	1.46
1	8V	37	ILE	CA-C	6.78	1.58	1.52
1	by	216	THR	C-N	6.78	1.43	1.33
1	gs	44	SER	C-N	6.78	1.42	1.33
1	gN	120	HIS	ND1-CE1	6.78	1.39	1.32
1	i0	22	ALA	CA-C	6.78	1.61	1.52
1	1O	226	HIS	ND1-CE1	6.78	1.39	1.32
1	k2	227	LYS	C-N	6.78	1.43	1.33
1	ks	75	GLU	CA-CB	6.78	1.64	1.53
1	ks	226	HIS	ND1-CE1	6.78	1.39	1.32
1	kw	55	MET	CA-CB	6.78	1.63	1.53
1	l4	166	ASP	CA-CB	6.78	1.64	1.53
1	2S	175	GLU	CA-CB	6.78	1.64	1.53
1	40	126	VAL	CA-C	6.78	1.61	1.52
1	4d	216	THR	N-CA	-6.78	1.38	1.46
1	4T	87	HIS	ND1-CE1	6.78	1.39	1.32
1	5L	25	LYS	N-CA	-6.78	1.38	1.46
1	7k	65	ALA	CA-CB	6.78	1.63	1.53
1	8P	113	GLU	C-N	6.78	1.42	1.33
1	92	28	GLU	CA-C	6.78	1.61	1.52
1	9G	220	GLY	CA-C	-6.78	1.44	1.52
1	9I	134	ILE	C-N	6.78	1.42	1.33
1	b0	158	LYS	CA-CB	6.78	1.65	1.53
1	bq	48	THR	CA-C	6.78	1.61	1.52
1	bD	90	PRO	N-CA	-6.78	1.41	1.47
1	e1	33	SER	N-CA	-6.78	1.39	1.45
1	eK	74	ASN	CA-C	-6.78	1.44	1.52
1	eL	226	HIS	CB-CG	6.78	1.59	1.50
1	f3	154	ARG	CA-CB	6.78	1.65	1.53
1	fD	97	ARG	CD-NE	6.78	1.55	1.46
1	T	173	ARG	CD-NE	6.78	1.55	1.46
1	gk	165	VAL	CA-C	6.78	1.61	1.52
1	gp	53	ASN	N-CA	-6.78	1.38	1.46
1	gC	119	THR	C-N	6.78	1.42	1.33
1	j8	32	PHE	C-N	6.78	1.41	1.33
1	kx	185	MET	C-O	-6.78	1.16	1.24
1	kH	202	LEU	CA-CB	6.78	1.63	1.53
1	l3	226	HIS	CD2-NE2	6.78	1.45	1.37
1	lR	114	GLN	CA-C	-6.78	1.44	1.52
1	2S	168	PHE	CA-C	6.78	1.61	1.52
1	3n	181	VAL	N-CA	6.78	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4M	27	VAL	N-CA	-6.78	1.38	1.46
1	5k	69	LEU	CA-C	6.78	1.61	1.52
1	5p	184	TRP	CA-CB	6.78	1.63	1.53
1	5L	7	GLN	N-CA	-6.78	1.36	1.46
1	7g	191	VAL	C-N	6.78	1.43	1.33
1	7G	194	ALA	C-N	6.78	1.42	1.33
1	7R	186	THR	CA-C	6.78	1.61	1.52
1	86	226	HIS	CG-ND1	-6.78	1.30	1.38
1	8Q	143	ARG	CA-C	6.78	1.61	1.52
1	at	113	GLU	CA-CB	6.78	1.64	1.53
1	bc	230	VAL	CA-C	-6.78	1.44	1.52
1	d2	224	PRO	N-CA	6.78	1.55	1.47
1	e8	90	PRO	N-CD	-6.78	1.38	1.47
1	ez	144	MET	N-CA	6.78	1.54	1.46
1	fy	132	ARG	NE-CZ	-6.78	1.25	1.33
1	hN	227	LYS	CA-C	6.77	1.61	1.52
1	1N	134	ILE	N-CA	6.77	1.54	1.46
1	iz	120	HIS	CD2-NE2	6.77	1.45	1.37
1	29	162	ARG	N-CA	-6.77	1.37	1.46
1	4V	2	ILE	CA-C	-6.77	1.44	1.52
1	5i	172	LEU	CA-C	-6.77	1.44	1.52
1	95	93	PRO	C-N	6.77	1.43	1.33
1	99	164	TYR	CA-C	6.77	1.61	1.52
1	9d	55	MET	CA-CB	6.77	1.63	1.53
1	9B	218	CYS	CA-C	6.77	1.61	1.52
1	ag	230	VAL	CA-CB	6.77	1.60	1.54
1	bE	118	MET	C-N	6.77	1.42	1.33
1	bY	8	GLY	CA-C	-6.77	1.45	1.52
1	1i	73	ILE	CA-C	-6.77	1.44	1.52
1	dE	188	THR	CA-C	-6.77	1.43	1.52
1	fN	173	ARG	CD-NE	6.77	1.55	1.46
1	v	138	LEU	C-N	6.77	1.42	1.33
1	I	31	ALA	N-CA	-6.77	1.36	1.46
1	hD	52	LEU	N-CA	-6.77	1.38	1.46
1	hM	96	MET	CA-C	6.77	1.61	1.52
1	jt	87	HIS	ND1-CE1	6.77	1.39	1.32
1	jB	90	PRO	CA-C	-6.77	1.42	1.52
1	k9	86	VAL	C-N	6.77	1.42	1.33
1	kq	129	ILE	N-CA	6.77	1.54	1.46
1	kG	53	ASN	CA-C	6.77	1.61	1.52
1	kI	140	LYS	C-N	6.77	1.42	1.33
1	l6	189	LEU	CA-CB	6.77	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l8	100	ARG	CA-C	6.77	1.62	1.53
1	ly	77	ALA	CA-C	6.77	1.61	1.52
1	lz	12	HIS	CB-CG	-6.77	1.40	1.50
1	5p	101	GLY	CA-C	6.77	1.60	1.52
1	5z	21	ASN	N-CA	-6.77	1.38	1.46
1	6W	15	ILE	CA-C	-6.77	1.44	1.52
1	7K	9	GLN	CA-C	6.77	1.61	1.52
1	87	38	PRO	N-CA	-6.77	1.38	1.47
1	8f	110	THR	C-N	6.77	1.42	1.33
1	8r	59	VAL	CA-C	6.77	1.61	1.52
1	8u	95	GLN	C-N	6.77	1.43	1.33
1	8V	207	PRO	N-CA	-6.77	1.38	1.47
1	9f	159	GLU	CA-C	6.77	1.60	1.52
1	9l	48	THR	CA-C	6.77	1.61	1.53
1	9O	79	GLU	CA-C	6.77	1.61	1.52
1	c4	191	VAL	CA-C	-6.77	1.43	1.52
1	cp	85	PRO	C-N	6.77	1.42	1.33
1	du	139	ASN	N-CA	6.77	1.54	1.46
1	1q	67	GLN	CA-CB	6.77	1.63	1.53
1	ew	161	PHE	CA-CB	6.77	1.63	1.53
1	f4	50	GLN	CA-CB	6.77	1.63	1.53
1	1v	228	ALA	CA-C	-6.77	1.44	1.52
1	q	109	SER	C-N	6.77	1.42	1.33
1	h8	214	MET	N-CA	-6.77	1.38	1.46
1	hn	206	GLY	C-N	-6.77	1.27	1.33
1	iF	46	GLY	C-N	6.77	1.42	1.33
1	j2	106	GLY	C-N	6.77	1.42	1.33
1	kp	187	GLU	N-CA	-6.77	1.38	1.46
1	kx	102	SER	CA-CB	6.77	1.63	1.53
1	lf	43	LEU	CB-CG	6.77	1.67	1.53
1	lh	88	ALA	CA-CB	6.77	1.64	1.53
1	lu	197	ASP	C-N	6.77	1.43	1.33
1	57	214	MET	CG-SD	6.77	1.97	1.80
1	59	123	PRO	C-N	-6.77	1.27	1.33
1	5v	143	ARG	NE-CZ	-6.77	1.25	1.33
1	62	212	GLU	N-CA	6.77	1.54	1.46
1	7v	203	LYS	CA-CB	6.77	1.64	1.53
1	94	25	LYS	N-CA	-6.77	1.38	1.46
1	9j	1	PRO	N-CA	6.77	1.57	1.47
1	9n	129	ILE	C-N	6.77	1.42	1.33
1	9o	137	GLY	N-CA	6.77	1.54	1.45
1	bD	11	VAL	CA-C	-6.77	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dx	172	LEU	CA-C	-6.77	1.44	1.52
1	e8	92	GLU	C-N	6.77	1.42	1.33
1	eR	89	GLY	N-CA	6.77	1.53	1.44
1	eX	33	SER	C-N	6.77	1.42	1.33
1	f2	147	PRO	CA-C	6.77	1.61	1.52
1	f6	49	PRO	CA-C	6.77	1.62	1.52
1	fF	99	PRO	CA-C	6.77	1.62	1.52
1	h	96	MET	C-N	6.77	1.42	1.33
1	hs	121	ASN	N-CA	-6.77	1.39	1.46
1	iw	226	HIS	CA-CB	6.77	1.63	1.53
1	k6	208	ALA	N-CA	6.77	1.54	1.46
1	kA	199	LYS	N-CA	-6.77	1.38	1.46
1	kE	185	MET	N-CA	6.77	1.54	1.46
1	kT	104	ILE	CA-C	-6.77	1.44	1.52
1	ls	26	VAL	C-N	6.77	1.42	1.33
1	3q	221	VAL	CA-C	6.77	1.60	1.52
1	3x	198	CYS	CA-C	-6.77	1.43	1.52
1	3E	55	MET	CA-C	6.77	1.61	1.52
1	44	75	GLU	CA-C	-6.77	1.44	1.52
1	48	117	TRP	N-CA	6.77	1.54	1.46
1	4o	52	LEU	CA-CB	6.77	1.63	1.53
1	6g	67	GLN	CA-CB	6.77	1.63	1.53
1	6p	214	MET	CA-CB	6.77	1.64	1.53
1	71	16	SER	CA-C	6.77	1.60	1.53
1	85	149	SER	CA-C	-6.77	1.44	1.52
1	8k	141	ILE	C-N	6.77	1.42	1.33
1	cf	63	GLN	CA-CB	6.77	1.64	1.53
1	cD	179	GLN	C-N	6.77	1.42	1.33
1	cS	10	MET	CA-CB	6.77	1.65	1.53
1	d4	194	ALA	CA-CB	6.77	1.65	1.53
1	dN	176	GLN	CA-CB	6.77	1.64	1.53
1	dR	196	PRO	CA-C	6.77	1.61	1.52
1	dT	19	THR	C-N	6.77	1.42	1.33
1	e9	61	GLY	CA-C	-6.77	1.45	1.52
1	el	183	ASN	C-O	-6.77	1.16	1.24
1	fF	58	THR	CA-C	6.77	1.62	1.52
1	g0	124	ILE	N-CA	-6.77	1.41	1.46
1	g4	178	SER	N-CA	6.77	1.54	1.45
1	gk	224	PRO	CA-CB	6.77	1.63	1.53
1	gx	32	PHE	C-N	6.77	1.43	1.33
1	hH	127	GLY	C-N	6.77	1.42	1.33
1	ix	84	HIS	CB-CG	6.77	1.59	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	20	186	THR	C-N	6.77	1.42	1.33
1	ks	211	LEU	C-O	6.77	1.32	1.24
1	kL	82	ARG	CD-NE	6.77	1.55	1.46
1	24	48	THR	CA-CB	6.77	1.63	1.53
1	25	150	ILE	C-N	6.77	1.42	1.33
1	lA	184	TRP	NE1-CE2	-6.77	1.30	1.37
1	2k	5	ASN	CA-CB	6.77	1.65	1.53
1	3B	195	ASN	CA-CB	6.77	1.64	1.53
1	41	29	GLU	CA-C	6.77	1.58	1.52
1	5b	113	GLU	CA-CB	6.77	1.64	1.53
1	5f	97	ARG	CZ-NH2	-6.77	1.24	1.33
1	6m	159	GLU	CA-C	6.77	1.60	1.52
1	6v	51	ASP	CA-C	-6.77	1.44	1.52
1	6H	194	ALA	N-CA	6.77	1.54	1.46
1	7k	62	HIS	CE1-NE2	6.77	1.39	1.32
1	9x	226	HIS	ND1-CE1	6.77	1.39	1.32
1	b8	59	VAL	C-N	6.77	1.43	1.33
1	cM	12	HIS	CB-CG	6.77	1.59	1.50
1	cW	45	GLU	CA-C	-6.77	1.44	1.52
1	d4	204	ALA	CA-CB	6.77	1.64	1.53
1	do	91	ILE	CA-CB	-6.77	1.45	1.54
1	eG	12	HIS	CG-CD2	-6.77	1.28	1.35
1	eR	173	ARG	CA-C	6.77	1.61	1.52
1	fO	173	ARG	CA-C	-6.77	1.43	1.52
1	x	12	HIS	ND1-CE1	6.77	1.39	1.32
1	C	229	ARG	CA-C	6.77	1.60	1.52
1	E	120	HIS	CD2-NE2	6.77	1.45	1.37
1	gv	2	ILE	CA-C	-6.77	1.44	1.52
1	gJ	29	GLU	CA-C	6.77	1.61	1.52
1	hB	211	LEU	CA-C	6.77	1.61	1.52
1	hG	45	GLU	C-N	6.77	1.42	1.33
1	j2	55	MET	CA-C	6.77	1.61	1.52
1	ja	223	GLY	CA-C	6.77	1.60	1.51
1	kx	221	VAL	C-N	6.77	1.43	1.33
1	lo	35	GLU	C-N	6.77	1.42	1.33
1	2m	123	PRO	CA-CB	6.77	1.62	1.53
1	2V	28	GLU	CA-C	-6.77	1.43	1.52
1	42	30	LYS	CA-C	6.77	1.61	1.52
1	8M	173	ARG	CA-C	6.77	1.61	1.52
1	bM	78	ALA	CA-C	-6.77	1.43	1.52
1	c9	140	LYS	CA-CB	6.77	1.63	1.53
1	v	19	THR	CA-C	-6.77	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gH	76	GLU	C-N	6.76	1.42	1.33
1	gN	210	THR	N-CA	6.76	1.54	1.45
1	h3	100	ARG	CD-NE	6.76	1.55	1.46
1	hL	153	ILE	CA-CB	-6.76	1.47	1.54
1	iu	90	PRO	C-N	6.76	1.42	1.33
1	iB	87	HIS	CG-ND1	-6.76	1.30	1.38
1	jf	12	HIS	CD2-NE2	6.76	1.45	1.37
1	20	72	THR	CA-C	-6.76	1.44	1.52
1	kG	66	MET	C-N	6.76	1.43	1.34
1	kX	148	THR	CA-C	-6.76	1.44	1.52
1	ly	132	ARG	CA-C	6.76	1.61	1.52
1	lN	37	ILE	CA-CB	6.76	1.58	1.54
1	3N	11	VAL	N-CA	-6.76	1.37	1.46
1	5f	127	GLY	CA-C	6.76	1.59	1.52
1	65	154	ARG	N-CA	-6.76	1.37	1.46
1	6X	189	LEU	CA-C	-6.76	1.44	1.52
1	7o	199	LYS	C-O	-6.76	1.15	1.24
1	7A	122	PRO	CA-C	6.76	1.58	1.52
1	9R	86	VAL	C-N	6.76	1.43	1.33
1	bX	104	ILE	N-CA	6.76	1.54	1.46
1	cl	92	GLU	C-N	-6.76	1.25	1.33
1	cF	108	THR	CA-C	-6.76	1.43	1.52
1	cR	87	HIS	CA-CB	6.76	1.62	1.53
1	cX	165	VAL	CA-CB	6.76	1.63	1.54
1	cX	218	CYS	CA-CB	6.76	1.65	1.53
1	1i	226	HIS	CA-CB	6.76	1.64	1.53
1	dv	206	GLY	C-N	6.76	1.42	1.33
1	dw	186	THR	CA-C	6.76	1.61	1.52
1	eg	132	ARG	NE-CZ	-6.76	1.25	1.33
1	1u	17	PRO	CA-CB	-6.76	1.44	1.53
1	f1	40	PHE	CA-C	6.76	1.61	1.52
1	gY	198	CYS	CA-C	6.76	1.61	1.52
1	hh	218	CYS	CA-CB	6.76	1.65	1.53
1	jO	229	ARG	N-CA	-6.76	1.38	1.46
1	k9	87	HIS	N-CA	-6.76	1.36	1.45
1	k9	182	LYS	CA-C	6.76	1.61	1.52
1	lP	198	CYS	CA-C	-6.76	1.43	1.52
1	2A	135	ILE	CA-CB	6.76	1.62	1.54
1	4y	106	GLY	CA-C	6.76	1.60	1.51
1	5r	163	ASP	CA-C	-6.76	1.44	1.52
1	8x	120	HIS	ND1-CE1	6.76	1.39	1.32
1	9s	229	ARG	CA-C	6.76	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cM	62	HIS	CE1-NE2	6.76	1.39	1.32
1	dW	53	ASN	CA-C	6.76	1.61	1.52
1	eo	92	GLU	CA-CB	6.76	1.65	1.54
1	I	214	MET	N-CA	-6.76	1.38	1.46
1	hG	139	ASN	CA-CB	6.76	1.63	1.53
1	hO	38	PRO	C-N	6.76	1.42	1.33
1	hT	59	VAL	N-CA	-6.76	1.39	1.46
1	is	30	LYS	C-N	6.76	1.42	1.33
1	iX	114	GLN	CA-CB	6.76	1.63	1.53
1	jx	93	PRO	CA-C	-6.76	1.42	1.52
1	jX	19	THR	C-N	6.76	1.43	1.33
1	kY	104	ILE	CA-CB	6.76	1.62	1.54
1	l1	95	GLN	C-N	6.76	1.42	1.33
1	li	59	VAL	CA-CB	-6.76	1.46	1.54
1	lI	117	TRP	CA-C	-6.76	1.44	1.52
1	lI	190	LEU	CA-C	6.76	1.61	1.52
1	3m	147	PRO	CA-C	6.76	1.60	1.52
1	48	17	PRO	C-O	-6.76	1.15	1.24
1	7B	50	GLN	C-N	6.76	1.42	1.33
1	83	230	VAL	N-CA	-6.76	1.38	1.46
1	8T	226	HIS	CG-ND1	-6.76	1.30	1.38
1	9C	37	ILE	C-O	-6.76	1.18	1.24
1	au	97	ARG	N-CA	6.76	1.54	1.46
1	aM	178	SER	N-CA	6.76	1.54	1.46
1	e7	161	PHE	CA-CB	6.76	1.64	1.53
1	ed	80	TRP	CA-C	6.76	1.61	1.52
1	eh	28	GLU	C-N	6.76	1.43	1.33
1	ej	2	ILE	CA-CB	-6.76	1.47	1.54
1	g2	143	ARG	CA-C	-6.76	1.43	1.52
1	1E	111	LEU	N-CA	-6.76	1.38	1.46
1	jv	2	ILE	CA-C	-6.76	1.44	1.52
1	23	146	SER	C-O	-6.76	1.15	1.24
1	kX	149	SER	CA-C	6.76	1.61	1.52
1	26	138	LEU	C-O	-6.76	1.16	1.24
1	lq	43	LEU	N-CA	6.76	1.54	1.46
1	3n	124	ILE	N-CA	-6.76	1.41	1.46
1	3s	107	THR	CA-C	6.76	1.61	1.52
1	4u	133	TRP	CA-C	6.76	1.61	1.52
1	67	23	TRP	C-N	6.76	1.42	1.33
1	7v	167	ARG	CA-CB	6.76	1.64	1.53
1	83	106	GLY	CA-C	-6.76	1.42	1.51
1	8G	127	GLY	CA-C	-6.76	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1e	120	HIS	ND1-CE1	6.76	1.39	1.32
1	cH	153	ILE	C-O	-6.76	1.15	1.24
1	fz	81	ASP	C-N	6.76	1.42	1.33
1	fz	143	ARG	C-N	6.76	1.43	1.34
1	c	207	PRO	CA-CB	-6.76	1.44	1.53
1	1	57	ASN	CA-C	-6.76	1.43	1.52
1	D	12	HIS	CB-CG	6.76	1.59	1.50
1	U	133	TRP	NE1-CE2	-6.76	1.30	1.37
1	gF	224	PRO	CA-CB	-6.76	1.44	1.53
1	kW	69	LEU	CA-C	6.76	1.61	1.52
1	2l	49	PRO	CA-CB	-6.76	1.44	1.53
1	3X	1	PRO	N-CD	6.76	1.57	1.47
1	59	174	ALA	N-CA	-6.76	1.38	1.46
1	5P	116	GLY	N-CA	6.76	1.54	1.45
1	7C	37	ILE	N-CA	-6.76	1.38	1.46
1	bK	14	ALA	C-N	6.76	1.42	1.33
1	d9	109	SER	C-N	6.76	1.43	1.33
1	1C	11	VAL	CA-CB	6.76	1.62	1.53
1	gk	110	THR	N-CA	6.76	1.53	1.45
1	gv	159	GLU	CA-C	6.76	1.58	1.52
1	gy	165	VAL	CA-CB	-6.76	1.45	1.54
1	gR	26	VAL	C-O	-6.76	1.16	1.24
1	hb	97	ARG	NE-CZ	-6.76	1.25	1.33
1	hF	172	LEU	CA-C	6.76	1.61	1.52
1	ia	208	ALA	N-CA	-6.76	1.37	1.46
1	iQ	164	TYR	CA-C	-6.76	1.44	1.52
1	jg	203	LYS	N-CA	-6.76	1.38	1.46
1	k8	144	MET	C-N	6.76	1.44	1.33
1	kb	214	MET	CA-C	-6.76	1.44	1.52
1	l3	162	ARG	C-N	6.76	1.43	1.33
1	lh	110	THR	CA-CB	6.76	1.64	1.53
1	2h	158	LYS	N-CA	-6.76	1.37	1.46
1	31	62	HIS	CG-CD2	6.76	1.43	1.35
1	4M	130	TYR	CA-C	6.76	1.61	1.52
1	4M	230	VAL	CA-CB	6.76	1.62	1.54
1	6O	108	THR	CA-C	-6.76	1.43	1.52
1	77	153	ILE	C-N	6.76	1.42	1.33
1	7s	74	ASN	CA-CB	6.76	1.63	1.53
1	7V	169	TYR	CA-C	6.76	1.61	1.52
1	ab	165	VAL	CA-C	-6.76	1.44	1.52
1	ag	3	VAL	CA-CB	-6.76	1.46	1.54
1	bu	142	VAL	CA-C	-6.76	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d8	191	VAL	CA-CB	-6.76	1.44	1.54
1	dd	5	ASN	CA-C	6.76	1.61	1.52
1	dG	133	TRP	C-N	6.76	1.42	1.33
1	ed	15	ILE	CA-CB	-6.76	1.47	1.54
1	er	158	LYS	N-CA	6.76	1.54	1.46
1	eX	120	HIS	ND1-CE1	6.76	1.39	1.32
1	gw	9	GLN	C-O	-6.75	1.16	1.23
1	kI	103	ASP	CA-C	-6.75	1.44	1.52
1	lv	120	HIS	CA-CB	6.75	1.63	1.53
1	2x	112	GLN	N-CA	-6.75	1.38	1.46
1	80	208	ALA	CA-C	-6.75	1.44	1.52
1	8l	170	LYS	CA-CB	6.75	1.64	1.53
1	8R	18	ARG	CD-NE	6.75	1.55	1.46
1	ax	107	THR	C-N	6.75	1.43	1.33
1	1d	210	THR	N-CA	6.75	1.54	1.45
1	ck	48	THR	CA-CB	6.75	1.62	1.53
1	cP	222	GLY	N-CA	-6.75	1.37	1.45
1	dd	103	ASP	N-CA	-6.75	1.38	1.46
1	e7	112	GLN	CA-C	-6.75	1.44	1.52
1	g3	222	GLY	N-CA	-6.75	1.38	1.45
1	1E	196	PRO	N-CD	-6.75	1.38	1.47
1	gK	107	THR	N-CA	6.75	1.54	1.46
1	jb	118	MET	CA-C	6.75	1.61	1.52
1	24	9	GLN	C-N	6.75	1.42	1.33
1	2S	173	ARG	CA-C	6.75	1.61	1.52
1	3v	183	ASN	C-N	6.75	1.43	1.34
1	44	79	GLU	N-CA	-6.75	1.38	1.46
1	4j	202	LEU	N-CA	6.75	1.54	1.46
1	4q	37	ILE	CA-CB	-6.75	1.50	1.54
1	5j	89	GLY	N-CA	6.75	1.53	1.44
1	5M	168	PHE	CA-CB	6.75	1.63	1.53
1	6K	94	GLY	CA-C	-6.75	1.42	1.51
1	7N	58	THR	C-N	6.75	1.42	1.33
1	7V	23	TRP	C-N	6.75	1.42	1.33
1	8b	208	ALA	CA-C	6.75	1.61	1.53
1	8t	100	ARG	CA-CB	6.75	1.63	1.53
1	9Y	53	ASN	CA-C	6.75	1.61	1.52
1	aE	190	LEU	C-N	6.75	1.42	1.33
1	aS	19	THR	C-N	6.75	1.42	1.33
1	aT	183	ASN	CA-CB	6.75	1.65	1.53
1	bb	27	VAL	N-CA	6.75	1.54	1.46
1	bh	29	GLU	CA-CB	6.75	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	143	ARG	N-CA	6.75	1.54	1.46
1	1d	17	PRO	N-CA	6.75	1.56	1.47
1	ch	172	LEU	CA-CB	6.75	1.64	1.53
1	cJ	181	VAL	C-N	6.75	1.42	1.33
1	fi	129	ILE	CA-C	6.75	1.61	1.52
1	fX	18	ARG	CD-NE	6.75	1.55	1.46
1	I	186	THR	N-CA	6.75	1.54	1.46
1	hj	181	VAL	CA-CB	-6.75	1.45	1.54
1	hD	24	VAL	CA-C	6.75	1.61	1.52
1	i3	205	LEU	C-O	-6.75	1.16	1.24
1	iI	192	GLN	CA-C	6.75	1.61	1.52
1	je	64	ALA	CA-C	6.75	1.61	1.52
1	l6	195	ASN	CA-CB	6.75	1.66	1.53
1	35	70	LYS	CA-C	6.75	1.61	1.52
1	3y	220	GLY	CA-C	-6.75	1.44	1.52
1	4u	97	ARG	CD-NE	6.75	1.55	1.46
1	59	97	ARG	CA-CB	6.75	1.61	1.52
1	5h	210	THR	CA-C	6.75	1.61	1.52
1	5k	101	GLY	N-CA	6.75	1.54	1.45
1	60	84	HIS	CB-CG	6.75	1.59	1.50
1	6b	42	ALA	CA-C	-6.75	1.44	1.52
1	7V	108	THR	CA-C	6.75	1.61	1.52
1	8k	63	GLN	CA-C	-6.75	1.44	1.52
1	8N	36	VAL	CA-CB	-6.75	1.46	1.54
1	8S	158	LYS	N-CA	-6.75	1.37	1.46
1	10	160	PRO	N-CA	-6.75	1.41	1.47
1	aE	98	GLU	CA-C	6.75	1.60	1.53
1	aH	195	ASN	CA-CB	6.75	1.62	1.53
1	c5	30	LYS	N-CA	-6.75	1.38	1.46
1	cB	141	ILE	N-CA	6.75	1.54	1.46
1	cC	7	GLN	CA-CB	6.75	1.64	1.53
1	ez	190	LEU	C-N	6.75	1.42	1.33
1	eV	68	MET	CA-C	-6.75	1.44	1.52
1	fP	181	VAL	N-CA	-6.75	1.38	1.46
1	s	213	GLU	CA-CB	6.75	1.64	1.53
1	u	6	LEU	CA-CB	6.75	1.64	1.53
1	h9	181	VAL	CA-CB	-6.75	1.45	1.54
1	1U	204	ALA	CA-CB	6.75	1.63	1.53
1	27	64	ALA	C-N	6.75	1.43	1.33
1	2P	93	PRO	C-N	6.75	1.41	1.33
1	4m	116	GLY	CA-C	6.75	1.60	1.51
1	4K	77	ALA	C-N	6.75	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6p	96	MET	N-CA	6.75	1.54	1.45
1	6E	178	SER	CA-C	6.75	1.61	1.52
1	7O	230	VAL	CA-C	6.75	1.60	1.52
1	bY	44	SER	C-N	6.75	1.43	1.33
1	cs	10	MET	C-N	6.75	1.41	1.33
1	gf	173	ARG	CD-NE	6.75	1.55	1.46
1	1C	9	GLN	C-N	6.75	1.43	1.33
1	gP	174	ALA	CA-CB	6.75	1.64	1.53
1	hD	37	ILE	CA-CB	6.75	1.58	1.53
1	if	152	ASP	C-N	6.75	1.41	1.33
1	il	195	ASN	CA-C	-6.75	1.45	1.53
1	ix	161	PHE	C-N	6.75	1.42	1.33
1	iJ	16	SER	CA-C	6.75	1.60	1.52
1	kZ	210	THR	CA-C	-6.75	1.43	1.52
1	lj	104	ILE	CA-C	6.75	1.61	1.52
1	lQ	158	LYS	CA-CB	6.75	1.63	1.54
1	2c	99	PRO	CA-CB	6.75	1.61	1.53
1	3I	104	ILE	N-CA	6.75	1.54	1.46
1	4b	184	TRP	CA-CB	6.75	1.64	1.53
1	4S	213	GLU	CA-CB	6.75	1.63	1.53
1	6x	151	LEU	CA-CB	6.75	1.64	1.53
1	89	162	ARG	CA-C	-6.75	1.43	1.52
1	91	130	TYR	CA-C	6.75	1.61	1.52
1	97	213	GLU	CA-CB	6.75	1.64	1.53
1	9I	230	VAL	CA-CB	-6.75	1.46	1.54
1	Y	209	ALA	N-CA	-6.75	1.37	1.46
1	Z	124	ILE	CA-C	6.75	1.59	1.52
1	a1	85	PRO	CA-C	-6.75	1.44	1.52
1	a1	212	GLU	CA-CB	6.75	1.64	1.53
1	bg	37	ILE	N-CA	6.75	1.55	1.46
1	bU	16	SER	CA-CB	6.75	1.63	1.53
1	c0	62	HIS	ND1-CE1	6.75	1.39	1.32
1	c5	216	THR	N-CA	6.75	1.54	1.46
1	c6	2	ILE	CA-CB	-6.75	1.45	1.54
1	e7	188	THR	CB-OG1	-6.75	1.32	1.43
1	g4	28	GLU	CA-CB	6.75	1.63	1.53
1	C	124	ILE	CA-C	6.75	1.58	1.53
1	K	51	ASP	C-N	6.75	1.43	1.33
1	gc	120	HIS	CE1-NE2	6.75	1.39	1.32
1	ge	220	GLY	C-N	6.75	1.42	1.33
1	hV	104	ILE	CA-CB	-6.75	1.46	1.54
1	i2	144	MET	CA-C	6.75	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iL	226	HIS	CG-CD2	6.75	1.43	1.35
1	iT	120	HIS	CE1-NE2	6.75	1.39	1.32
1	kQ	198	CYS	CA-CB	6.75	1.63	1.53
1	l8	136	LEU	C-N	-6.75	1.24	1.33
1	3x	212	GLU	CA-CB	6.75	1.64	1.53
1	5i	62	HIS	CE1-NE2	6.75	1.39	1.32
1	6r	5	ASN	N-CA	6.75	1.55	1.46
1	at	59	VAL	C-O	-6.75	1.17	1.24
1	bQ	73	ILE	C-N	6.75	1.43	1.33
1	cf	28	GLU	CA-CB	6.75	1.64	1.53
1	dq	1	PRO	C-N	6.75	1.41	1.33
1	dF	142	VAL	N-CA	-6.75	1.38	1.46
1	eo	69	LEU	CA-C	6.75	1.61	1.52
1	eU	84	HIS	CA-C	6.75	1.60	1.52
1	ff	96	MET	CA-C	6.75	1.60	1.52
1	1z	220	GLY	C-N	6.75	1.42	1.33
1	R	22	ALA	C-N	6.75	1.42	1.33
1	i6	27	VAL	C-N	6.75	1.42	1.33
1	kl	164	TYR	CA-C	6.75	1.62	1.52
1	2Z	17	PRO	N-CA	6.75	1.56	1.47
1	3y	24	VAL	CA-C	-6.75	1.44	1.52
1	51	164	TYR	C-N	-6.75	1.26	1.33
1	68	84	HIS	CB-CG	-6.75	1.40	1.50
1	6X	135	ILE	C-N	6.75	1.42	1.33
1	7j	15	ILE	CA-C	6.75	1.59	1.52
1	7N	71	GLU	CA-C	6.75	1.61	1.52
1	8g	92	GLU	CA-C	6.75	1.60	1.53
1	ca	134	ILE	CA-C	6.75	1.61	1.52
1	fT	71	GLU	N-CA	-6.75	1.38	1.46
1	D	165	VAL	N-CA	6.75	1.54	1.46
1	H	134	ILE	CA-C	6.75	1.61	1.52
1	hs	74	ASN	C-N	6.74	1.43	1.33
1	hC	96	MET	CA-C	6.74	1.61	1.52
1	jq	191	VAL	N-CA	6.74	1.54	1.46
1	kg	226	HIS	ND1-CE1	6.74	1.39	1.32
1	kI	95	GLN	CA-CB	6.74	1.63	1.53
1	l6	116	GLY	CA-C	-6.74	1.44	1.51
1	3M	192	GLN	CA-C	-6.74	1.43	1.52
1	3P	185	MET	CA-CB	6.74	1.63	1.53
1	5M	113	GLU	N-CA	-6.74	1.38	1.46
1	6M	10	MET	CA-CB	6.74	1.63	1.53
1	7C	78	ALA	CA-CB	6.74	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8c	11	VAL	CA-CB	6.74	1.61	1.53
1	9a	123	PRO	C-N	6.74	1.39	1.33
1	9b	33	SER	C-N	6.74	1.41	1.34
1	bo	146	SER	CA-C	6.74	1.58	1.53
1	bO	68	MET	C-N	6.74	1.43	1.33
1	c4	133	TRP	NE1-CE2	-6.74	1.30	1.37
1	cf	79	GLU	CA-C	6.74	1.61	1.52
1	ct	117	TRP	NE1-CE2	-6.74	1.30	1.37
1	d2	181	VAL	N-CA	6.74	1.54	1.46
1	dU	107	THR	C-N	6.74	1.42	1.33
1	1r	87	HIS	CD2-NE2	6.74	1.45	1.37
1	ft	140	LYS	CA-C	6.74	1.61	1.52
1	1y	223	GLY	C-N	-6.74	1.24	1.33
1	1z	146	SER	CA-CB	6.74	1.64	1.53
1	g3	153	ILE	CA-C	6.74	1.60	1.52
1	iD	68	MET	CA-C	-6.74	1.44	1.52
1	kB	143	ARG	CD-NE	6.74	1.55	1.46
1	2j	84	HIS	CB-CG	6.74	1.59	1.50
1	3j	109	SER	C-N	6.74	1.43	1.33
1	3K	130	TYR	CA-C	6.74	1.61	1.52
1	5k	55	MET	N-CA	-6.74	1.38	1.46
1	61	129	ILE	C-N	6.74	1.43	1.34
1	6L	208	ALA	C-N	6.74	1.42	1.33
1	8n	154	ARG	N-CA	-6.74	1.37	1.45
1	a7	150	ILE	C-N	6.74	1.43	1.33
1	aN	221	VAL	N-CA	6.74	1.54	1.46
1	aX	181	VAL	N-CA	-6.74	1.38	1.46
1	fi	188	THR	CA-C	-6.74	1.43	1.52
1	fn	12	HIS	ND1-CE1	6.74	1.39	1.32
1	t	125	PRO	N-CD	6.74	1.57	1.47
1	4	139	ASN	N-CA	6.74	1.54	1.46
1	gK	4	GLN	CA-C	6.74	1.62	1.53
1	he	143	ARG	CD-NE	6.74	1.55	1.46
1	in	111	LEU	N-CA	6.74	1.54	1.46
1	1T	60	GLY	CA-C	-6.74	1.45	1.52
1	kC	29	GLU	CA-CB	6.74	1.64	1.53
1	lk	190	LEU	CA-CB	6.74	1.64	1.53
1	38	166	ASP	C-N	6.74	1.42	1.33
1	3j	189	LEU	CA-CB	6.74	1.64	1.53
1	3s	59	VAL	CA-CB	-6.74	1.45	1.54
1	3T	100	ARG	CA-C	-6.74	1.43	1.53
1	4a	202	LEU	C-N	6.74	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4f	13	GLN	CA-C	-6.74	1.44	1.52
1	4O	147	PRO	N-CA	6.74	1.55	1.47
1	58	202	LEU	N-CA	-6.74	1.38	1.46
1	82	99	PRO	CA-C	6.74	1.58	1.52
1	8f	50	GLN	C-N	6.74	1.42	1.33
1	8h	112	GLN	CA-C	6.74	1.61	1.52
1	8j	214	MET	CA-CB	6.74	1.64	1.53
1	8r	23	TRP	N-CA	-6.74	1.38	1.46
1	95	105	ALA	C-N	6.74	1.41	1.33
1	9H	108	THR	N-CA	6.74	1.54	1.46
1	a3	186	THR	CA-CB	6.74	1.64	1.53
1	bc	188	THR	C-N	6.74	1.42	1.33
1	cl	100	ARG	N-CA	-6.74	1.37	1.45
1	cF	123	PRO	CA-CB	-6.74	1.44	1.53
1	fE	203	LYS	CA-C	6.74	1.61	1.52
1	r	224	PRO	N-CA	6.74	1.54	1.47
1	gz	211	LEU	CA-CB	6.74	1.63	1.53
1	gU	137	GLY	C-N	6.74	1.42	1.33
1	hq	68	MET	CA-CB	6.74	1.64	1.53
1	io	106	GLY	CA-C	-6.74	1.42	1.51
1	kN	25	LYS	CA-C	6.74	1.61	1.52
1	lu	16	SER	CA-C	-6.74	1.46	1.53
1	2o	19	THR	CA-C	-6.74	1.44	1.52
1	2t	15	ILE	CA-CB	-6.74	1.47	1.54
1	2D	23	TRP	CA-CB	6.74	1.64	1.53
1	2M	86	VAL	CA-C	6.74	1.59	1.52
1	3g	153	ILE	CA-C	-6.74	1.45	1.52
1	3p	194	ALA	N-CA	-6.74	1.37	1.46
1	4I	2	ILE	CA-C	6.74	1.60	1.52
1	5L	173	ARG	N-CA	-6.74	1.37	1.46
1	65	229	ARG	CD-NE	6.74	1.55	1.46
1	6e	226	HIS	ND1-CE1	6.74	1.39	1.32
1	77	171	THR	CA-CB	6.74	1.64	1.53
1	84	137	GLY	CA-C	-6.74	1.44	1.52
1	8L	166	ASP	CA-CB	6.74	1.63	1.53
1	9j	195	ASN	CA-C	6.74	1.60	1.53
1	b8	205	LEU	CA-C	-6.74	1.44	1.52
1	bj	100	ARG	N-CA	-6.74	1.38	1.45
1	df	150	ILE	CA-C	6.74	1.61	1.52
1	dn	228	ALA	CA-CB	6.74	1.63	1.53
1	1l	82	ARG	N-CA	6.74	1.54	1.46
1	eD	32	PHE	C-N	6.74	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eP	61	GLY	C-N	6.74	1.43	1.33
1	j	67	GLN	CA-C	-6.74	1.44	1.52
1	D	88	ALA	C-O	-6.74	1.15	1.23
1	gx	160	PRO	CA-CB	-6.74	1.44	1.53
1	hV	217	ALA	C-N	6.74	1.42	1.33
1	jS	149	SER	CA-C	-6.74	1.44	1.52
1	k2	49	PRO	CA-C	-6.74	1.42	1.52
1	6b	149	SER	CA-CB	6.74	1.63	1.53
1	8N	110	THR	N-CA	-6.74	1.37	1.45
1	af	173	ARG	N-CA	-6.74	1.38	1.46
1	aG	219	GLN	CA-CB	6.74	1.61	1.52
1	cj	163	ASP	N-CA	6.74	1.54	1.46
1	cx	76	GLU	CA-C	6.74	1.61	1.52
1	cL	220	GLY	CA-C	-6.74	1.44	1.51
1	1h	49	PRO	N-CA	6.74	1.56	1.47
1	1s	133	TRP	C-N	6.74	1.42	1.33
1	fp	4	GLN	CA-CB	6.74	1.64	1.53
1	gF	130	TYR	C-N	6.74	1.42	1.33
1	hq	70	LYS	CA-C	-6.74	1.44	1.52
1	hX	84	HIS	ND1-CE1	6.74	1.39	1.32
1	l3	51	ASP	C-N	-6.74	1.25	1.33
1	l3	212	GLU	CA-CB	6.74	1.64	1.53
1	3r	144	MET	C-N	6.74	1.42	1.33
1	48	197	ASP	N-CA	6.74	1.54	1.46
1	4b	115	ILE	C-N	6.74	1.42	1.33
1	6g	50	GLN	N-CA	-6.74	1.38	1.46
1	7k	51	ASP	N-CA	-6.74	1.38	1.46
1	7P	136	LEU	CA-C	6.74	1.61	1.52
1	9f	109	SER	CA-C	-6.74	1.44	1.52
1	aj	226	HIS	N-CA	-6.74	1.37	1.46
1	aw	205	LEU	CA-CB	6.74	1.64	1.53
1	13	70	LYS	CA-CB	6.74	1.63	1.53
1	ct	59	VAL	CA-C	6.74	1.61	1.52
1	cJ	33	SER	CA-C	6.74	1.60	1.53
1	eb	21	ASN	CA-C	6.74	1.61	1.52
1	em	63	GLN	C-N	6.74	1.42	1.33
1	ey	30	LYS	CA-C	-6.74	1.43	1.52
1	eD	120	HIS	CG-CD2	-6.74	1.28	1.35
1	eF	136	LEU	N-CA	-6.74	1.38	1.46
1	eI	63	GLN	CA-CB	6.74	1.64	1.53
1	fd	113	GLU	CA-CB	6.74	1.63	1.53
1	fv	121	ASN	CA-C	6.74	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g1	126	VAL	C-N	6.74	1.42	1.33
1	F	167	ARG	NE-CZ	6.74	1.40	1.33
1	M	29	GLU	CA-C	6.74	1.61	1.52
1	6	62	HIS	ND1-CE1	6.74	1.39	1.32
1	j3	104	ILE	CA-CB	-6.73	1.45	1.54
1	ka	124	ILE	CA-C	6.73	1.58	1.53
1	kV	181	VAL	N-CA	6.73	1.54	1.46
1	26	125	PRO	CA-CB	6.73	1.57	1.53
1	3H	200	THR	CA-C	6.73	1.61	1.52
1	3V	140	LYS	CA-C	6.73	1.61	1.52
1	5Q	69	LEU	CA-C	6.73	1.61	1.52
1	6u	228	ALA	CA-C	6.73	1.61	1.52
1	93	188	THR	CA-C	-6.73	1.46	1.53
1	9r	61	GLY	N-CA	6.73	1.50	1.44
1	b5	109	SER	CA-C	-6.73	1.44	1.52
1	bd	18	ARG	CD-NE	6.73	1.55	1.46
1	bn	54	THR	C-N	6.73	1.42	1.33
1	bD	114	GLN	CA-CB	6.73	1.63	1.53
1	bW	172	LEU	CA-CB	6.73	1.64	1.53
1	dB	167	ARG	N-CA	6.73	1.54	1.46
1	m	180	GLU	CA-CB	6.73	1.64	1.53
1	q	78	ALA	CA-C	6.73	1.61	1.52
1	gS	184	TRP	NE1-CE2	-6.73	1.30	1.37
1	hu	12	HIS	ND1-CE1	6.73	1.39	1.32
1	hV	160	PRO	C-N	6.73	1.42	1.33
1	i6	98	GLU	C-N	6.73	1.41	1.33
1	jw	149	SER	N-CA	6.73	1.54	1.46
1	jT	196	PRO	CA-CB	6.73	1.63	1.53
1	kb	207	PRO	C-N	6.73	1.43	1.33
1	kn	94	GLY	CA-C	-6.73	1.43	1.51
1	ky	188	THR	CA-C	6.73	1.58	1.52
1	kG	110	THR	CA-CB	-6.73	1.42	1.53
1	lj	3	VAL	CA-C	6.73	1.60	1.52
1	lC	191	VAL	CA-CB	-6.73	1.46	1.54
1	lN	97	ARG	N-CA	6.73	1.54	1.46
1	lP	120	HIS	CB-CG	6.73	1.59	1.50
1	2U	121	ASN	N-CA	6.73	1.53	1.46
1	3c	44	SER	CA-C	-6.73	1.44	1.52
1	3x	120	HIS	CA-C	6.73	1.61	1.52
1	3V	1	PRO	N-CD	6.73	1.57	1.47
1	3Y	43	LEU	CA-C	-6.73	1.42	1.52
1	4j	197	ASP	CA-C	6.73	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4H	68	MET	CA-C	6.73	1.61	1.52
1	5o	205	LEU	CA-CB	6.73	1.64	1.53
1	5G	130	TYR	CZ-OH	6.73	1.52	1.38
1	6g	26	VAL	CA-C	-6.73	1.44	1.52
1	6D	167	ARG	CA-C	-6.73	1.44	1.52
1	6K	196	PRO	CA-C	6.73	1.61	1.52
1	75	26	VAL	N-CA	6.73	1.54	1.46
1	79	217	ALA	CA-CB	6.73	1.63	1.53
1	7b	123	PRO	CA-C	-6.73	1.44	1.52
1	7o	12	HIS	CE1-NE2	-6.73	1.25	1.32
1	7B	6	LEU	C-O	-6.73	1.16	1.24
1	7C	198	CYS	N-CA	-6.73	1.38	1.46
1	83	82	ARG	NE-CZ	6.73	1.40	1.33
1	9q	178	SER	CA-C	-6.73	1.44	1.52
1	aC	20	LEU	C-N	6.73	1.42	1.33
1	14	204	ALA	N-CA	-6.73	1.38	1.46
1	bH	73	ILE	CA-C	-6.73	1.43	1.52
1	cm	120	HIS	CD2-NE2	-6.73	1.30	1.37
1	eh	182	LYS	CA-C	6.73	1.61	1.52
1	ek	187	GLU	CA-CB	6.73	1.63	1.53
1	k	80	TRP	N-CA	-6.73	1.38	1.46
1	hf	31	ALA	C-O	-6.73	1.18	1.24
1	ho	104	ILE	C-N	6.73	1.43	1.33
1	hx	124	ILE	CA-C	6.73	1.59	1.52
1	hB	146	SER	CA-C	6.73	1.61	1.52
1	jo	229	ARG	CA-CB	6.73	1.65	1.53
1	kx	226	HIS	CE1-NE2	6.73	1.39	1.32
1	kx	227	LYS	CA-C	-6.73	1.44	1.52
1	li	49	PRO	C-N	6.73	1.42	1.33
1	lC	84	HIS	ND1-CE1	6.73	1.39	1.32
1	2A	13	GLN	CA-C	-6.73	1.44	1.52
1	31	184	TRP	CA-C	6.73	1.61	1.52
1	49	134	ILE	N-CA	6.73	1.54	1.46
1	4d	229	ARG	CD-NE	6.73	1.55	1.46
1	4p	123	PRO	N-CA	-6.73	1.39	1.47
1	4s	29	GLU	CA-C	-6.73	1.44	1.52
1	4y	199	LYS	C-N	-6.73	1.25	1.33
1	58	40	PHE	CA-CB	6.73	1.63	1.53
1	6a	98	GLU	CA-C	-6.73	1.44	1.53
1	6o	87	HIS	ND1-CE1	6.73	1.39	1.32
1	6Q	77	ALA	CA-CB	6.73	1.63	1.53
1	7M	163	ASP	C-N	6.73	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8u	9	GLN	CA-CB	6.73	1.63	1.53
1	8D	96	MET	N-CA	-6.73	1.37	1.46
1	8X	226	HIS	ND1-CE1	6.73	1.39	1.32
1	9p	224	PRO	CA-CB	6.73	1.63	1.53
1	9C	227	LYS	N-CA	6.73	1.54	1.46
1	an	205	LEU	CA-C	-6.73	1.43	1.52
1	cb	69	LEU	N-CA	-6.73	1.38	1.46
1	cO	144	MET	C-N	6.73	1.43	1.33
1	dJ	196	PRO	C-O	-6.73	1.16	1.24
1	dT	60	GLY	CA-C	-6.73	1.42	1.51
1	dU	91	ILE	CA-CB	-6.73	1.46	1.54
1	fl	115	ILE	N-CA	6.73	1.54	1.46
1	1G	228	ALA	CA-CB	6.73	1.64	1.53
1	i7	59	VAL	CA-C	6.73	1.60	1.52
1	ir	33	SER	CA-C	6.73	1.60	1.52
1	ji	27	VAL	CA-C	6.73	1.61	1.52
1	lg	53	ASN	CA-CB	6.73	1.63	1.53
1	3v	73	ILE	CA-CB	6.73	1.62	1.54
1	4u	91	ILE	C-O	-6.73	1.17	1.24
1	4Y	54	THR	N-CA	6.73	1.54	1.46
1	6i	195	ASN	CA-C	6.73	1.61	1.52
1	6S	62	HIS	ND1-CE1	6.73	1.39	1.32
1	79	64	ALA	C-N	6.73	1.42	1.33
1	am	53	ASN	CA-CB	6.73	1.63	1.53
1	bT	104	ILE	CA-CB	6.73	1.62	1.54
1	1e	7	GLN	C-N	6.73	1.39	1.32
1	cO	16	SER	CA-C	6.73	1.60	1.52
1	cP	221	VAL	CA-CB	-6.73	1.45	1.54
1	eM	195	ASN	CA-CB	6.73	1.63	1.53
1	eT	21	ASN	CA-C	6.73	1.61	1.52
1	6	132	ARG	CA-C	6.73	1.61	1.52
1	i0	122	PRO	C-N	6.73	1.42	1.33
1	iY	49	PRO	C-N	6.73	1.43	1.33
1	j1	108	THR	N-CA	6.73	1.54	1.46
1	jp	5	ASN	CA-C	6.73	1.60	1.52
1	22	1	PRO	N-CD	6.73	1.57	1.47
1	ly	43	LEU	N-CA	-6.73	1.38	1.46
1	2K	124	ILE	CA-C	6.73	1.59	1.52
1	2Y	212	GLU	C-N	6.73	1.42	1.33
1	36	123	PRO	CA-CB	6.73	1.62	1.53
1	3G	64	ALA	N-CA	-6.73	1.38	1.46
1	4c	114	GLN	CA-C	-6.73	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4d	226	HIS	ND1-CE1	6.73	1.39	1.32
1	4P	37	ILE	CA-CB	6.73	1.57	1.54
1	50	7	GLN	C-N	6.73	1.43	1.33
1	5s	208	ALA	N-CA	6.73	1.54	1.46
1	6h	50	GLN	N-CA	-6.73	1.38	1.46
1	8Q	52	LEU	N-CA	6.73	1.54	1.46
1	as	175	GLU	CA-C	6.73	1.61	1.52
1	b1	26	VAL	CA-CB	-6.73	1.46	1.54
1	bk	69	LEU	CA-C	6.73	1.61	1.52
1	ca	164	TYR	CA-C	6.73	1.61	1.52
1	cK	50	GLN	CA-CB	6.73	1.64	1.53
1	dl	226	HIS	CA-C	-6.73	1.43	1.52
1	fg	168	PHE	CA-CB	6.73	1.64	1.53
1	o	223	GLY	N-CA	6.73	1.52	1.43
1	gc	157	PRO	CA-C	-6.73	1.42	1.52
1	gP	220	GLY	C-N	6.73	1.40	1.33
1	hS	147	PRO	CA-C	6.73	1.60	1.52
1	jJ	185	MET	N-CA	6.73	1.54	1.46
1	2k	71	GLU	C-N	6.73	1.42	1.33
1	2G	216	THR	CA-C	6.73	1.62	1.52
1	53	174	ALA	CA-C	6.73	1.62	1.52
1	5S	193	ASN	CA-CB	6.73	1.65	1.53
1	67	120	HIS	CA-C	6.73	1.61	1.52
1	7G	230	VAL	CA-C	6.73	1.62	1.52
1	8f	173	ARG	CD-NE	6.73	1.55	1.46
1	8u	12	HIS	CA-CB	6.73	1.62	1.53
1	8w	124	ILE	CA-CB	6.73	1.62	1.54
1	a1	85	PRO	CA-CB	6.73	1.62	1.53
1	aL	59	VAL	CA-CB	6.73	1.62	1.53
1	b6	158	LYS	N-CA	6.73	1.54	1.46
1	1d	82	ARG	CD-NE	6.73	1.55	1.46
1	cP	221	VAL	CA-C	-6.73	1.44	1.52
1	di	55	MET	CA-C	6.73	1.61	1.52
1	et	198	CYS	C-N	6.73	1.43	1.33
1	eK	45	GLU	C-N	6.73	1.43	1.33
1	gj	190	LEU	CA-C	6.72	1.61	1.52
1	gx	12	HIS	CG-CD2	6.72	1.43	1.35
1	h7	222	GLY	N-CA	6.72	1.53	1.45
1	he	100	ARG	CA-C	-6.72	1.43	1.53
1	hn	209	ALA	CA-CB	6.72	1.64	1.53
1	hA	195	ASN	CA-C	6.72	1.60	1.53
1	hZ	172	LEU	CA-C	6.72	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j0	120	HIS	ND1-CE1	6.72	1.39	1.32
1	jg	100	ARG	CA-CB	6.72	1.64	1.53
1	jr	187	GLU	N-CA	-6.72	1.38	1.46
1	2g	143	ARG	CA-C	-6.72	1.44	1.52
1	2s	16	SER	CA-CB	6.72	1.64	1.53
1	4g	212	GLU	CA-C	6.72	1.61	1.52
1	5P	226	HIS	CG-CD2	6.72	1.43	1.35
1	6l	116	GLY	CA-C	-6.72	1.44	1.51
1	6v	68	MET	N-CA	-6.72	1.38	1.46
1	8h	111	LEU	CA-C	6.72	1.61	1.52
1	8l	68	MET	CA-C	-6.72	1.44	1.52
1	9K	164	TYR	CA-C	6.72	1.61	1.52
1	9P	125	PRO	N-CD	-6.72	1.38	1.47
1	aW	190	LEU	C-O	6.72	1.31	1.24
1	ce	83	LEU	N-CA	-6.72	1.38	1.46
1	cp	53	ASN	N-CA	-6.72	1.38	1.46
1	d7	146	SER	CA-CB	6.72	1.63	1.53
1	eJ	214	MET	CA-C	6.72	1.61	1.52
1	1v	47	ALA	CA-C	6.72	1.61	1.52
1	1w	80	TRP	NE1-CE2	6.72	1.44	1.37
1	fN	64	ALA	CA-C	6.72	1.61	1.52
1	g4	229	ARG	CD-NE	6.72	1.55	1.46
1	M	57	ASN	CA-CB	6.72	1.64	1.53
1	ir	199	LYS	CA-C	-6.72	1.43	1.52
1	iG	19	THR	CA-C	-6.72	1.44	1.52
1	1S	38	PRO	C-N	6.72	1.42	1.33
1	j2	98	GLU	CA-C	6.72	1.60	1.52
1	jl	226	HIS	CE1-NE2	-6.72	1.25	1.32
1	jm	25	LYS	CA-C	6.72	1.61	1.52
1	kf	21	ASN	N-CA	-6.72	1.38	1.46
1	l2	35	GLU	N-CA	-6.72	1.38	1.46
1	le	126	VAL	CA-C	-6.72	1.42	1.52
1	lg	90	PRO	CA-CB	6.72	1.61	1.53
1	lj	95	GLN	CA-CB	6.72	1.64	1.53
1	ls	44	SER	CA-C	-6.72	1.43	1.52
1	ls	168	PHE	CA-CB	6.72	1.63	1.53
1	2o	133	TRP	N-CA	6.72	1.54	1.46
1	2F	26	VAL	CA-CB	-6.72	1.46	1.54
1	4U	125	PRO	CA-C	6.72	1.59	1.53
1	56	38	PRO	C-N	6.72	1.42	1.33
1	68	177	ALA	N-CA	-6.72	1.37	1.45
1	6g	175	GLU	CA-C	6.72	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	76	27	VAL	CA-CB	6.72	1.61	1.54
1	7u	28	GLU	C-N	6.72	1.43	1.33
1	7v	114	GLN	C-N	6.72	1.42	1.33
1	8y	108	THR	N-CA	6.72	1.53	1.46
1	9t	106	GLY	CA-C	-6.72	1.43	1.51
1	a4	156	GLY	N-CA	6.72	1.53	1.44
1	ac	99	PRO	N-CA	-6.72	1.39	1.47
1	aJ	41	SER	CA-C	6.72	1.61	1.52
1	c2	115	ILE	CA-C	-6.72	1.44	1.52
1	co	49	PRO	N-CA	-6.72	1.38	1.47
1	cQ	177	ALA	N-CA	-6.72	1.37	1.46
1	1h	8	GLY	C-N	6.72	1.42	1.33
1	d5	84	HIS	ND1-CE1	6.72	1.39	1.32
1	dc	48	THR	CA-C	6.72	1.61	1.52
1	dm	31	ALA	C-N	6.72	1.42	1.33
1	1n	214	MET	CA-C	6.72	1.61	1.52
1	ee	226	HIS	CD2-NE2	6.72	1.45	1.37
1	eV	213	GLU	N-CA	6.72	1.54	1.46
1	fx	62	HIS	CE1-NE2	6.72	1.39	1.32
1	fU	99	PRO	N-CA	6.72	1.54	1.47
1	a	124	ILE	CA-C	6.72	1.59	1.52
1	Q	33	SER	C-O	-6.72	1.18	1.24
1	X	226	HIS	ND1-CE1	6.72	1.39	1.32
1	gL	110	THR	C-N	6.72	1.42	1.33
1	h3	132	ARG	CD-NE	6.72	1.55	1.46
1	ik	21	ASN	CA-CB	6.72	1.64	1.53
1	j1	82	ARG	CA-C	6.72	1.61	1.52
1	jF	45	GLU	CA-CB	6.72	1.62	1.53
1	jO	69	LEU	CA-C	6.72	1.61	1.52
1	kT	87	HIS	ND1-CE1	6.72	1.39	1.32
1	2d	188	THR	CA-CB	6.72	1.64	1.53
1	3s	77	ALA	C-O	-6.72	1.16	1.24
1	5r	58	THR	CA-C	-6.72	1.44	1.52
1	6f	179	GLN	CA-CB	6.72	1.63	1.53
1	6x	123	PRO	C-N	6.72	1.41	1.33
1	7l	174	ALA	CA-CB	6.72	1.63	1.53
1	7D	21	ASN	N-CA	-6.72	1.38	1.46
1	7P	159	GLU	CA-C	6.72	1.60	1.53
1	8J	133	TRP	C-O	-6.72	1.16	1.24
1	8O	156	GLY	C-N	-6.72	1.25	1.33
1	9Z	92	GLU	CA-CB	6.72	1.64	1.53
1	ar	45	GLU	N-CA	6.72	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cX	77	ALA	CA-C	-6.72	1.44	1.52
1	du	28	GLU	CA-CB	6.72	1.64	1.53
1	fI	9	GLN	CA-C	6.72	1.60	1.52
1	h3	121	ASN	CA-C	6.72	1.60	1.52
1	hw	148	THR	N-CA	6.72	1.54	1.46
1	hY	97	ARG	CA-CB	6.72	1.64	1.53
1	iD	214	MET	CA-C	6.72	1.61	1.52
1	jr	171	THR	N-CA	6.72	1.54	1.46
1	jN	18	ARG	CD-NE	6.72	1.55	1.46
1	kH	163	ASP	C-N	6.72	1.42	1.33
1	2j	36	VAL	C-N	6.72	1.41	1.33
1	2t	150	ILE	N-CA	6.72	1.54	1.46
1	2V	128	GLU	CA-CB	6.72	1.63	1.53
1	3I	40	PHE	C-N	6.72	1.42	1.33
1	3V	89	GLY	N-CA	6.72	1.53	1.44
1	4a	214	MET	CA-CB	6.72	1.63	1.53
1	6b	220	GLY	N-CA	6.72	1.55	1.45
1	6R	109	SER	N-CA	6.72	1.54	1.46
1	8k	102	SER	CA-CB	6.72	1.63	1.53
1	8R	82	ARG	NE-CZ	-6.72	1.25	1.33
1	9E	27	VAL	CA-C	6.72	1.61	1.52
1	ap	154	ARG	C-O	-6.72	1.16	1.23
1	aq	54	THR	CA-C	-6.72	1.44	1.52
1	aH	1	PRO	N-CD	6.72	1.57	1.47
1	aR	173	ARG	CZ-NH1	-6.72	1.23	1.32
1	bz	143	ARG	C-N	6.72	1.42	1.33
1	d3	120	HIS	CG-CD2	6.72	1.43	1.35
1	di	219	GLN	CA-CB	6.72	1.62	1.53
1	dx	23	TRP	CA-CB	6.72	1.63	1.53
1	dL	133	TRP	NE1-CE2	-6.72	1.30	1.37
1	e7	200	THR	CA-C	-6.72	1.43	1.52
1	R	205	LEU	N-CA	6.72	1.54	1.46
1	iY	111	LEU	C-O	-6.72	1.16	1.24
1	kT	198	CYS	N-CA	6.72	1.54	1.46
1	2P	97	ARG	CA-C	-6.72	1.43	1.52
1	4g	30	LYS	CA-C	6.72	1.58	1.52
1	6Q	113	GLU	CA-CB	6.72	1.63	1.53
1	8s	84	HIS	CD2-NE2	6.72	1.45	1.37
1	ax	111	LEU	CA-CB	6.72	1.63	1.53
1	cT	74	ASN	CA-CB	6.72	1.64	1.53
1	e0	32	PHE	CA-C	-6.72	1.45	1.53
1	P	209	ALA	CA-C	6.72	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gx	186	THR	N-CA	6.72	1.54	1.46
1	i0	132	ARG	C-N	6.72	1.42	1.33
1	in	99	PRO	CA-C	-6.72	1.46	1.52
1	jz	120	HIS	ND1-CE1	6.72	1.39	1.32
1	kt	98	GLU	N-CA	6.72	1.56	1.46
1	24	143	ARG	CA-CB	6.72	1.63	1.53
1	l1	37	ILE	CA-CB	6.72	1.57	1.54
1	2t	18	ARG	CA-CB	6.72	1.63	1.53
1	2t	113	GLU	C-N	6.72	1.43	1.33
1	2H	146	SER	CA-C	6.72	1.60	1.53
1	2N	37	ILE	CA-C	6.72	1.58	1.52
1	35	228	ALA	CA-CB	-6.72	1.42	1.53
1	3e	115	ILE	CA-CB	-6.72	1.46	1.54
1	5b	136	LEU	C-N	6.72	1.42	1.33
1	6I	162	ARG	N-CA	-6.72	1.38	1.46
1	6S	126	VAL	CA-C	6.72	1.61	1.52
1	7H	4	GLN	CA-C	6.72	1.60	1.52
1	7J	82	ARG	CA-C	6.72	1.61	1.52
1	8c	80	TRP	CD2-CE3	-6.72	1.29	1.40
1	95	159	GLU	C-O	-6.72	1.15	1.23
1	9j	196	PRO	CA-C	6.72	1.61	1.52
1	Y	108	THR	CA-CB	-6.72	1.42	1.53
1	a9	40	PHE	CA-C	-6.72	1.44	1.52
1	a9	183	ASN	C-N	6.72	1.43	1.33
1	ab	84	HIS	ND1-CE1	6.72	1.39	1.32
1	af	132	ARG	CD-NE	6.72	1.55	1.46
1	b9	193	ASN	CA-CB	6.72	1.63	1.53
1	1k	126	VAL	C-N	6.72	1.41	1.33
1	1t	201	ILE	CA-CB	-6.72	1.46	1.54
1	ff	127	GLY	CA-C	-6.72	1.43	1.51
1	fu	151	LEU	CA-C	6.72	1.61	1.52
1	gq	67	GLN	CA-C	-6.71	1.44	1.52
1	gF	195	ASN	CA-C	6.71	1.60	1.53
1	1T	16	SER	CA-C	-6.71	1.46	1.53
1	jv	211	LEU	CA-CB	6.71	1.64	1.53
1	jC	75	GLU	N-CA	-6.71	1.38	1.46
1	kb	70	LYS	C-N	6.71	1.42	1.33
1	kl	125	PRO	C-N	6.71	1.42	1.33
1	4n	127	GLY	CA-C	-6.71	1.44	1.52
1	5r	185	MET	CA-CB	6.71	1.63	1.53
1	8j	36	VAL	C-N	6.71	1.41	1.33
1	8q	120	HIS	CD2-NE2	6.71	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	178	SER	CA-C	6.71	1.61	1.52
1	a4	94	GLY	C-N	6.71	1.42	1.33
1	af	173	ARG	CA-CB	6.71	1.63	1.53
1	as	222	GLY	CA-C	-6.71	1.43	1.52
1	aU	73	ILE	CA-C	-6.71	1.44	1.52
1	cT	229	ARG	CZ-NH2	-6.71	1.24	1.33
1	d4	58	THR	C-N	6.71	1.42	1.33
1	dq	168	PHE	CA-CB	6.71	1.64	1.53
1	ed	218	CYS	CA-CB	6.71	1.64	1.53
1	eo	96	MET	C-N	6.71	1.42	1.33
1	f7	136	LEU	C-N	6.71	1.42	1.34
1	fY	180	GLU	C-N	6.71	1.42	1.33
1	gI	182	LYS	N-CA	6.71	1.54	1.46
1	1R	100	ARG	CZ-NH1	-6.71	1.23	1.32
1	jH	144	MET	CA-CB	6.71	1.64	1.53
1	kD	36	VAL	C-N	6.71	1.43	1.34
1	l9	160	PRO	N-CA	6.71	1.55	1.47
1	lu	77	ALA	C-N	6.71	1.42	1.33
1	lz	128	GLU	N-CA	-6.71	1.38	1.46
1	2y	83	LEU	C-N	6.71	1.43	1.33
1	31	44	SER	CA-C	-6.71	1.43	1.52
1	6v	204	ALA	C-N	6.71	1.43	1.33
1	6C	152	ASP	C-N	6.71	1.43	1.33
1	7W	211	LEU	N-CA	6.71	1.54	1.46
1	8m	202	LEU	N-CA	-6.71	1.38	1.46
1	8y	154	ARG	CA-CB	6.71	1.65	1.53
1	8V	51	ASP	C-N	6.71	1.42	1.33
1	aa	123	PRO	C-N	6.71	1.39	1.33
1	dh	18	ARG	C-O	-6.71	1.16	1.24
1	1p	87	HIS	C-O	6.71	1.32	1.23
1	el	127	GLY	CA-C	-6.71	1.45	1.52
1	gu	73	ILE	CA-CB	6.71	1.62	1.54
1	iE	21	ASN	CA-C	6.71	1.61	1.52
1	iE	68	MET	C-N	6.71	1.42	1.33
1	iW	209	ALA	CA-C	6.71	1.61	1.52
1	k6	150	ILE	C-N	6.71	1.42	1.33
1	kh	175	GLU	CA-CB	6.71	1.62	1.53
1	25	62	HIS	ND1-CE1	-6.71	1.25	1.32
1	l9	38	PRO	CA-CB	-6.71	1.44	1.53
1	3a	33	SER	CA-C	6.71	1.61	1.53
1	3I	126	VAL	C-O	-6.71	1.16	1.24
1	45	181	VAL	CA-C	6.71	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4A	139	ASN	CA-CB	6.71	1.63	1.53
1	4S	132	ARG	CZ-NH2	-6.71	1.24	1.33
1	5v	218	CYS	C-N	6.71	1.42	1.33
1	5M	14	ALA	C-N	6.71	1.41	1.33
1	7N	170	LYS	CA-CB	6.71	1.64	1.53
1	8J	69	LEU	C-O	-6.71	1.16	1.24
1	9l	149	SER	CA-CB	6.71	1.63	1.53
1	ac	150	ILE	C-N	6.71	1.42	1.33
1	cu	115	ILE	CA-C	-6.71	1.44	1.52
1	cU	67	GLN	CA-CB	6.71	1.63	1.53
1	f2	164	TYR	N-CA	6.71	1.54	1.46
1	fI	68	MET	CA-C	-6.71	1.44	1.52
1	g7	87	HIS	ND1-CE1	6.71	1.39	1.32
1	c	185	MET	C-N	6.71	1.43	1.33
1	x	26	VAL	CA-CB	6.71	1.61	1.54
1	hY	113	GLU	N-CA	6.71	1.54	1.46
1	iA	166	ASP	CA-CB	6.71	1.64	1.53
1	iL	203	LYS	CA-CB	6.71	1.63	1.53
1	jv	100	ARG	C-N	6.71	1.42	1.33
1	l3	91	ILE	CA-CB	6.71	1.61	1.54
1	l9	112	GLN	CA-CB	6.71	1.63	1.53
1	lp	224	PRO	CA-C	6.71	1.61	1.52
1	lE	181	VAL	CA-C	-6.71	1.43	1.52
1	52	178	SER	CA-C	6.71	1.62	1.53
1	5n	167	ARG	CD-NE	6.71	1.55	1.46
1	65	181	VAL	CA-CB	6.71	1.62	1.54
1	6t	112	GLN	C-N	6.71	1.42	1.33
1	aL	29	GLU	CA-C	-6.71	1.44	1.52
1	aW	50	GLN	C-N	6.71	1.42	1.33
1	bL	29	GLU	CA-C	6.71	1.61	1.52
1	dw	188	THR	CA-C	-6.71	1.46	1.52
1	en	50	GLN	C-N	6.71	1.42	1.33
1	1r	179	GLN	CA-CB	6.71	1.64	1.53
1	fT	48	THR	N-CA	6.71	1.55	1.45
1	F	130	TYR	CA-CB	6.71	1.64	1.53
1	gS	202	LEU	N-CA	-6.71	1.38	1.46
1	hK	128	GLU	CA-CB	6.71	1.63	1.53
1	in	133	TRP	NE1-CE2	-6.71	1.30	1.37
1	iK	176	GLN	N-CA	-6.71	1.38	1.46
1	jS	41	SER	CA-CB	6.71	1.63	1.53
1	l3	98	GLU	C-N	6.71	1.40	1.33
1	lG	30	LYS	N-CA	-6.71	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3Q	168	PHE	CA-C	-6.71	1.44	1.52
1	53	46	GLY	CA-C	-6.71	1.42	1.51
1	5f	229	ARG	CD-NE	6.71	1.55	1.46
1	6U	155	GLN	CA-CB	6.71	1.64	1.53
1	73	75	GLU	CA-C	6.71	1.61	1.52
1	7f	34	PRO	CA-C	6.71	1.58	1.52
1	7l	84	HIS	CA-CB	6.71	1.63	1.53
1	8O	217	ALA	N-CA	-6.71	1.37	1.46
1	9c	170	LYS	CA-C	6.71	1.61	1.52
1	9N	206	GLY	N-CA	6.71	1.53	1.44
1	9W	46	GLY	C-N	6.71	1.42	1.33
1	9W	82	ARG	C-N	6.71	1.43	1.34
1	ac	133	TRP	CA-C	6.71	1.61	1.52
1	ac	195	ASN	CA-CB	6.71	1.61	1.53
1	aS	86	VAL	CA-CB	6.71	1.62	1.54
1	cE	144	MET	CA-CB	6.71	1.63	1.53
1	di	43	LEU	C-N	6.71	1.42	1.33
1	dk	155	GLN	CA-C	6.71	1.61	1.52
1	eP	87	HIS	ND1-CE1	6.71	1.39	1.32
1	fq	202	LEU	CA-CB	6.71	1.64	1.53
1	w	71	GLU	CA-C	6.71	1.61	1.52
1	j9	173	ARG	CD-NE	6.71	1.55	1.46
1	ja	12	HIS	C-N	6.71	1.43	1.33
1	26	230	VAL	C-N	6.71	1.42	1.33
1	2q	22	ALA	N-CA	-6.71	1.38	1.46
1	38	144	MET	CA-CB	6.71	1.64	1.53
1	3I	23	TRP	CA-CB	6.71	1.64	1.53
1	5a	156	GLY	CA-C	-6.71	1.42	1.51
1	5o	25	LYS	CA-C	-6.71	1.44	1.52
1	5R	164	TYR	C-N	6.71	1.42	1.33
1	5U	132	ARG	CD-NE	6.71	1.55	1.46
1	5U	187	GLU	N-CA	-6.71	1.38	1.46
1	5W	18	ARG	CA-CB	6.71	1.64	1.53
1	6b	226	HIS	C-N	6.71	1.43	1.33
1	6n	22	ALA	CA-C	6.71	1.61	1.52
1	6E	86	VAL	C-O	-6.71	1.17	1.24
1	6Y	45	GLU	C-N	6.71	1.40	1.33
1	8i	84	HIS	CG-ND1	6.71	1.45	1.38
1	8V	154	ARG	CD-NE	6.71	1.55	1.46
1	8Y	201	ILE	C-O	-6.71	1.16	1.24
1	9o	55	MET	CA-C	6.71	1.61	1.52
1	ap	228	ALA	CA-C	-6.71	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bW	135	ILE	C-N	6.71	1.42	1.33
1	cf	31	ALA	CA-C	-6.71	1.43	1.52
1	cn	129	ILE	CA-C	-6.71	1.45	1.52
1	dk	157	PRO	N-CA	-6.71	1.38	1.47
1	1p	42	ALA	N-CA	-6.71	1.38	1.46
1	ek	124	ILE	N-CA	-6.71	1.41	1.46
1	eR	154	ARG	CA-C	-6.71	1.44	1.52
1	fZ	26	VAL	C-N	6.71	1.42	1.33
1	g0	159	GLU	N-CA	-6.71	1.39	1.46
1	g6	75	GLU	C-O	-6.71	1.16	1.24
1	g7	115	ILE	CA-CB	6.71	1.63	1.54
1	gT	84	HIS	N-CA	6.71	1.53	1.46
1	gU	12	HIS	CB-CG	6.71	1.59	1.50
1	hX	30	LYS	CA-C	-6.71	1.43	1.52
1	iG	62	HIS	CE1-NE2	6.71	1.39	1.32
1	jG	48	THR	C-N	6.71	1.42	1.33
1	jI	111	LEU	CB-CG	6.71	1.66	1.53
1	kj	32	PHE	CA-CB	6.71	1.62	1.53
1	4q	198	CYS	C-N	6.71	1.43	1.33
1	4A	63	GLN	CA-C	-6.71	1.44	1.52
1	6N	61	GLY	C-N	6.71	1.43	1.33
1	8X	154	ARG	CA-C	6.71	1.60	1.52
1	92	191	VAL	CA-CB	-6.71	1.45	1.54
1	br	26	VAL	C-N	6.71	1.42	1.33
1	bu	113	GLU	CA-C	6.71	1.61	1.52
1	fN	27	VAL	N-CA	-6.71	1.38	1.46
1	g2	129	ILE	CA-CB	6.71	1.62	1.54
1	T	98	GLU	CA-C	-6.71	1.45	1.52
1	gf	123	PRO	CA-C	-6.70	1.44	1.52
1	h1	220	GLY	CA-C	6.70	1.61	1.51
1	hl	69	LEU	CA-CB	6.70	1.64	1.53
1	it	95	GLN	CA-CB	6.70	1.65	1.54
1	iA	78	ALA	CA-C	-6.70	1.44	1.52
1	jL	226	HIS	C-N	6.70	1.42	1.33
1	k9	226	HIS	CB-CG	6.70	1.59	1.50
1	lH	84	HIS	C-O	-6.70	1.18	1.25
1	2d	125	PRO	CA-CB	6.70	1.60	1.53
1	2K	21	ASN	C-N	6.70	1.43	1.33
1	3K	181	VAL	C-N	6.70	1.42	1.33
1	40	65	ALA	C-N	6.70	1.43	1.33
1	5f	191	VAL	CA-CB	6.70	1.62	1.54
1	5R	88	ALA	N-CA	-6.70	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5U	176	GLN	C-N	6.70	1.42	1.33
1	73	120	HIS	CA-C	6.70	1.62	1.53
1	7D	36	VAL	N-CA	-6.70	1.37	1.46
1	8A	152	ASP	CA-CB	6.70	1.63	1.53
1	8Z	55	MET	CA-C	6.70	1.61	1.52
1	bs	93	PRO	N-CA	6.70	1.55	1.47
1	bJ	12	HIS	ND1-CE1	6.70	1.39	1.32
1	eg	115	ILE	CA-CB	6.70	1.63	1.54
1	fb	80	TRP	N-CA	-6.70	1.38	1.46
1	fj	180	GLU	CA-CB	6.70	1.63	1.53
1	fp	124	ILE	CA-C	-6.70	1.47	1.53
1	jC	6	LEU	N-CA	-6.70	1.40	1.46
1	kj	83	LEU	CA-CB	6.70	1.64	1.53
1	lI	219	GLN	C-N	6.70	1.44	1.33
1	3F	64	ALA	N-CA	-6.70	1.38	1.46
1	4t	123	PRO	C-N	6.70	1.40	1.33
1	4P	218	CYS	CA-CB	6.70	1.63	1.53
1	95	87	HIS	ND1-CE1	6.70	1.39	1.32
1	1p	212	GLU	CA-C	6.70	1.61	1.52
1	eI	219	GLN	CA-C	6.70	1.61	1.52
1	f9	175	GLU	CA-CB	6.70	1.64	1.53
1	fm	178	SER	N-CA	6.70	1.54	1.45
1	fS	205	LEU	N-CA	-6.70	1.37	1.46
1	W	132	ARG	C-N	6.70	1.42	1.33
1	h4	203	LYS	C-N	6.70	1.42	1.33
1	iG	62	HIS	CG-CD2	6.70	1.43	1.35
1	iQ	113	GLU	C-N	6.70	1.43	1.33
1	jD	96	MET	N-CA	-6.70	1.37	1.46
1	jQ	3	VAL	CA-CB	6.70	1.61	1.53
1	kM	87	HIS	CB-CG	6.70	1.59	1.50
1	kQ	85	PRO	N-CD	-6.70	1.38	1.47
1	4k	107	THR	CA-C	-6.70	1.45	1.52
1	5L	7	GLN	C-N	6.70	1.40	1.33
1	69	44	SER	C-N	6.70	1.43	1.33
1	6C	117	TRP	CD2-CE3	-6.70	1.29	1.40
1	7j	134	ILE	CB-CG1	6.70	1.66	1.53
1	7P	109	SER	CA-CB	6.70	1.64	1.53
1	7V	97	ARG	CD-NE	6.70	1.55	1.46
1	96	84	HIS	ND1-CE1	6.70	1.39	1.32
1	a0	226	HIS	ND1-CE1	6.70	1.39	1.32
1	bV	229	ARG	C-N	6.70	1.42	1.33
1	ck	103	ASP	C-N	6.70	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cH	100	ARG	C-N	6.70	1.42	1.33
1	dy	100	ARG	CZ-NH1	-6.70	1.23	1.32
1	ek	226	HIS	ND1-CE1	6.70	1.39	1.32
1	fz	38	PRO	CA-C	6.70	1.61	1.52
1	fY	109	SER	CA-C	-6.70	1.44	1.52
1	g5	84	HIS	ND1-CE1	6.70	1.39	1.32
1	c	112	GLN	CA-C	6.70	1.62	1.52
1	q	128	GLU	CA-C	-6.70	1.44	1.52
1	3	140	LYS	C-N	6.70	1.42	1.33
1	T	198	CYS	CA-C	6.70	1.61	1.52
1	gk	82	ARG	CD-NE	6.70	1.55	1.46
1	gK	84	HIS	CA-CB	6.70	1.61	1.53
1	ic	173	ARG	C-N	6.70	1.43	1.33
1	jS	111	LEU	CA-C	6.70	1.61	1.52
1	jU	61	GLY	N-CA	6.70	1.51	1.44
1	21	226	HIS	CA-C	6.70	1.61	1.52
1	kY	73	ILE	C-N	6.70	1.42	1.33
1	lu	80	TRP	CA-C	6.70	1.61	1.52
1	2D	144	MET	CA-C	-6.70	1.43	1.52
1	3X	51	ASP	N-CA	-6.70	1.38	1.46
1	4y	123	PRO	C-N	6.70	1.39	1.33
1	5l	23	TRP	CA-C	6.70	1.61	1.52
1	5Y	164	TYR	CA-CB	6.70	1.63	1.53
1	63	163	ASP	N-CA	-6.70	1.38	1.46
1	6A	85	PRO	CA-C	6.70	1.58	1.53
1	7E	87	HIS	N-CA	6.70	1.54	1.46
1	7R	230	VAL	N-CA	-6.70	1.38	1.46
1	a8	185	MET	CA-CB	6.70	1.63	1.53
1	av	80	TRP	CA-CB	6.70	1.63	1.53
1	cz	52	LEU	C-O	-6.70	1.16	1.24
1	d5	45	GLU	CA-CB	6.70	1.62	1.53
1	dc	173	ARG	CA-C	6.70	1.62	1.52
1	dD	162	ARG	C-N	6.70	1.43	1.33
1	dJ	84	HIS	ND1-CE1	6.70	1.39	1.32
1	r	173	ARG	NE-CZ	6.70	1.40	1.33
1	L	193	ASN	N-CA	-6.70	1.37	1.46
1	4	34	PRO	CA-C	6.70	1.58	1.52
1	gB	111	LEU	CA-CB	6.70	1.64	1.53
1	ji	183	ASN	C-N	6.70	1.42	1.33
1	jq	3	VAL	CA-CB	-6.70	1.47	1.54
1	ku	86	VAL	CA-CB	-6.70	1.47	1.54
1	3F	211	LEU	CA-C	6.70	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3O	23	TRP	NE1-CE2	-6.70	1.30	1.37
1	4c	164	TYR	CA-CB	6.70	1.63	1.53
1	5a	83	LEU	CA-CB	6.70	1.62	1.53
1	7D	125	PRO	CA-CB	-6.70	1.44	1.53
1	bY	203	LYS	N-CA	-6.70	1.38	1.46
1	e3	126	VAL	N-CA	6.70	1.54	1.46
1	fM	226	HIS	ND1-CE1	6.70	1.39	1.32
1	fU	167	ARG	CA-C	-6.70	1.44	1.52
1	gm	57	ASN	N-CA	6.70	1.54	1.46
1	hb	167	ARG	NE-CZ	-6.70	1.25	1.33
1	i4	155	GLN	CA-CB	6.70	1.65	1.53
1	ia	174	ALA	CA-C	6.70	1.61	1.52
1	ij	79	GLU	CA-C	-6.70	1.43	1.52
1	1P	19	THR	CA-CB	6.70	1.64	1.53
1	iw	22	ALA	C-N	6.70	1.42	1.33
1	iG	95	GLN	C-N	6.70	1.42	1.33
1	jo	221	VAL	CA-CB	-6.70	1.46	1.54
1	jG	50	GLN	CA-C	6.70	1.61	1.52
1	jY	177	ALA	CA-C	6.70	1.61	1.52
1	k4	88	ALA	N-CA	6.70	1.54	1.46
1	lK	84	HIS	CE1-NE2	-6.70	1.25	1.32
1	2O	194	ALA	N-CA	-6.70	1.36	1.45
1	35	148	THR	CA-C	-6.70	1.44	1.52
1	56	132	ARG	CD-NE	6.70	1.55	1.46
1	5O	107	THR	CA-C	6.70	1.61	1.52
1	6f	107	THR	CA-CB	-6.70	1.42	1.53
1	8f	10	MET	C-N	6.70	1.42	1.33
1	98	216	THR	N-CA	6.70	1.54	1.46
1	9s	165	VAL	C-N	6.70	1.42	1.33
1	9z	223	GLY	N-CA	6.70	1.53	1.44
1	aS	141	ILE	C-O	-6.70	1.16	1.24
1	bf	178	SER	N-CA	-6.70	1.37	1.46
1	ce	130	TYR	CA-CB	6.70	1.63	1.53
1	ct	190	LEU	N-CA	-6.70	1.37	1.46
1	cI	99	PRO	C-N	6.70	1.42	1.33
1	du	140	LYS	CA-CB	6.70	1.64	1.53
1	e1	88	ALA	C-N	6.70	1.43	1.33
1	es	77	ALA	N-CA	-6.70	1.38	1.46
1	eu	189	LEU	CA-CB	6.70	1.63	1.53
1	fI	1	PRO	N-CA	6.70	1.57	1.47
1	g0	198	CYS	C-N	6.70	1.42	1.33
1	f	182	LYS	C-N	6.70	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gN	168	PHE	CA-CB	6.69	1.64	1.53
1	gS	204	ALA	C-N	6.69	1.43	1.33
1	hf	1	PRO	N-CD	6.69	1.57	1.47
1	1J	53	ASN	CA-C	6.69	1.61	1.52
1	2u	93	PRO	N-CA	-6.69	1.38	1.47
1	30	38	PRO	CA-C	6.69	1.61	1.52
1	4o	87	HIS	CD2-NE2	6.69	1.45	1.37
1	5U	73	ILE	N-CA	6.69	1.54	1.46
1	8i	91	ILE	CA-C	6.69	1.60	1.52
1	8H	123	PRO	C-N	6.69	1.40	1.33
1	99	84	HIS	ND1-CE1	6.69	1.39	1.32
1	9v	84	HIS	ND1-CE1	6.69	1.39	1.32
1	9Q	104	ILE	CA-CB	-6.69	1.46	1.54
1	9Z	173	ARG	CD-NE	6.69	1.55	1.46
1	a9	12	HIS	CB-CG	6.69	1.59	1.50
1	15	57	ASN	CA-C	6.69	1.61	1.52
1	b0	133	TRP	CA-C	6.69	1.61	1.52
1	cy	151	LEU	N-CA	6.69	1.54	1.46
1	dl	156	GLY	C-N	-6.69	1.27	1.33
1	fn	221	VAL	CA-C	6.69	1.63	1.53
1	go	2	ILE	N-CA	6.69	1.54	1.46
1	gW	190	LEU	CA-CB	6.69	1.63	1.53
1	h4	188	THR	C-N	6.69	1.42	1.33
1	hf	133	TRP	NE1-CE2	-6.69	1.30	1.37
1	hv	66	MET	CG-SD	6.69	1.97	1.80
1	is	213	GLU	CA-C	6.69	1.61	1.52
1	ju	212	GLU	CA-C	6.69	1.61	1.52
1	jK	33	SER	C-N	-6.69	1.28	1.33
1	jX	25	LYS	CA-C	6.69	1.61	1.52
1	kl	47	ALA	CA-CB	6.69	1.62	1.53
1	kr	58	THR	C-N	6.69	1.42	1.33
1	kr	105	ALA	N-CA	6.69	1.54	1.46
1	kR	22	ALA	CA-CB	-6.69	1.42	1.53
1	2i	87	HIS	ND1-CE1	6.69	1.39	1.32
1	30	226	HIS	ND1-CE1	6.69	1.39	1.32
1	4h	140	LYS	N-CA	-6.69	1.38	1.46
1	4l	120	HIS	CB-CG	6.69	1.59	1.50
1	63	45	GLU	CA-C	6.69	1.61	1.52
1	6F	84	HIS	ND1-CE1	6.69	1.39	1.32
1	6X	217	ALA	CA-CB	6.69	1.64	1.53
1	79	15	ILE	CA-CB	-6.69	1.46	1.54
1	7m	211	LEU	C-O	-6.69	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7x	195	ASN	C-N	6.69	1.42	1.34
1	7N	61	GLY	CA-C	-6.69	1.42	1.51
1	7X	92	GLU	N-CA	6.69	1.53	1.46
1	8E	139	ASN	CA-CB	6.69	1.63	1.53
1	98	153	ILE	C-N	6.69	1.42	1.33
1	9f	82	ARG	CA-C	6.69	1.61	1.52
1	bi	164	TYR	CA-CB	6.69	1.64	1.53
1	bs	107	THR	CA-C	-6.69	1.43	1.52
1	bX	86	VAL	N-CA	-6.69	1.38	1.46
1	bX	226	HIS	CG-CD2	6.69	1.43	1.35
1	cn	97	ARG	CA-C	6.69	1.61	1.52
1	1f	153	ILE	CA-C	-6.69	1.45	1.52
1	dn	72	THR	N-CA	6.69	1.54	1.46
1	dq	45	GLU	C-N	6.69	1.40	1.33
1	f3	201	ILE	C-N	6.69	1.42	1.33
1	9	138	LEU	C-N	6.69	1.42	1.33
1	i8	187	GLU	C-O	-6.69	1.16	1.24
1	iu	62	HIS	CE1-NE2	6.69	1.39	1.32
1	k4	120	HIS	ND1-CE1	6.69	1.39	1.32
1	k9	199	LYS	CA-C	-6.69	1.43	1.52
1	kK	149	SER	CA-C	-6.69	1.44	1.52
1	kU	162	ARG	N-CA	6.69	1.54	1.46
1	kV	142	VAL	N-CA	6.69	1.54	1.46
1	ln	11	VAL	N-CA	-6.69	1.38	1.46
1	2G	229	ARG	CD-NE	6.69	1.55	1.46
1	4v	90	PRO	C-N	6.69	1.42	1.33
1	4z	34	PRO	CA-C	6.69	1.61	1.52
1	4C	208	ALA	CA-C	6.69	1.62	1.52
1	4W	171	THR	N-CA	6.69	1.54	1.46
1	5Q	6	LEU	CA-CB	6.69	1.64	1.53
1	64	159	GLU	CA-CB	6.69	1.66	1.53
1	66	229	ARG	CA-C	6.69	1.60	1.52
1	6j	36	VAL	C-N	6.69	1.43	1.33
1	8E	176	GLN	N-CA	-6.69	1.38	1.46
1	9v	151	LEU	C-N	6.69	1.42	1.33
1	9S	213	GLU	CA-C	-6.69	1.44	1.52
1	a4	126	VAL	CA-C	6.69	1.61	1.52
1	ad	99	PRO	CA-C	6.69	1.60	1.52
1	bh	55	MET	CA-C	6.69	1.61	1.52
1	bo	154	ARG	CA-C	6.69	1.60	1.52
1	bG	163	ASP	CA-CB	6.69	1.64	1.53
1	cn	143	ARG	C-N	6.69	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cx	111	LEU	C-N	6.69	1.42	1.33
1	cM	85	PRO	N-CA	6.69	1.55	1.47
1	d6	6	LEU	CB-CG	6.69	1.66	1.53
1	dK	135	ILE	CA-CB	6.69	1.62	1.54
1	ek	181	VAL	CA-CB	-6.69	1.46	1.54
1	em	117	TRP	CA-CB	6.69	1.63	1.53
1	eq	183	ASN	CA-C	6.69	1.61	1.52
1	f3	96	MET	C-N	6.69	1.42	1.33
1	it	86	VAL	CA-CB	-6.69	1.45	1.54
1	iQ	120	HIS	C-N	-6.69	1.26	1.33
1	jt	113	GLU	CA-CB	6.69	1.64	1.53
1	kv	150	ILE	CB-CG1	6.69	1.66	1.53
1	kO	112	GLN	CA-C	-6.69	1.44	1.52
1	ll	62	HIS	CE1-NE2	6.69	1.39	1.32
1	3b	59	VAL	CA-CB	6.69	1.62	1.54
1	4J	131	LYS	CA-C	6.69	1.61	1.52
1	5z	145	TYR	C-N	6.69	1.42	1.33
1	5K	202	LEU	C-N	6.69	1.43	1.33
1	6K	177	ALA	N-CA	-6.69	1.37	1.46
1	8u	18	ARG	CD-NE	6.69	1.55	1.46
1	aj	179	GLN	C-N	6.69	1.42	1.33
1	b3	23	TRP	C-N	6.69	1.42	1.33
1	d3	198	CYS	N-CA	-6.69	1.38	1.46
1	dk	86	VAL	CA-CB	-6.69	1.46	1.54
1	ej	132	ARG	CA-C	-6.69	1.44	1.52
1	eK	148	THR	C-N	6.69	1.42	1.33
1	X	147	PRO	N-CA	6.69	1.55	1.47
1	g8	58	THR	N-CA	6.69	1.54	1.46
1	ha	4	GLN	CA-CB	6.69	1.63	1.53
1	ho	114	GLN	N-CA	6.69	1.54	1.46
1	hv	106	GLY	N-CA	6.69	1.55	1.45
1	iM	227	LYS	CA-CB	6.69	1.64	1.53
1	j1	173	ARG	N-CA	6.69	1.54	1.46
1	1W	198	CYS	CA-C	-6.69	1.44	1.52
1	kK	93	PRO	CA-CB	-6.69	1.44	1.53
1	lh	11	VAL	CA-CB	-6.69	1.46	1.54
1	ll	59	VAL	CA-C	-6.69	1.44	1.52
1	2Z	120	HIS	N-CA	6.69	1.54	1.45
1	4o	16	SER	CA-C	6.69	1.60	1.52
1	5j	73	ILE	C-O	-6.69	1.15	1.24
1	5J	5	ASN	CA-CB	6.69	1.63	1.53
1	74	183	ASN	CA-C	-6.69	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7w	99	PRO	N-CA	-6.69	1.39	1.47
1	7D	134	ILE	CA-C	-6.69	1.45	1.52
1	8H	87	HIS	CB-CG	6.69	1.59	1.50
1	9r	162	ARG	CA-C	-6.69	1.44	1.52
1	9z	114	GLN	CA-CB	6.69	1.63	1.53
1	aE	197	ASP	C-N	6.69	1.42	1.33
1	ba	86	VAL	CA-C	-6.69	1.44	1.52
1	bo	127	GLY	CA-C	-6.69	1.43	1.51
1	18	168	PHE	N-CA	-6.69	1.38	1.46
1	bO	68	MET	CA-CB	6.69	1.63	1.53
1	cg	80	TRP	CA-C	6.69	1.61	1.52
1	cF	124	ILE	CA-CB	6.69	1.59	1.54
1	dg	229	ARG	CA-C	6.69	1.60	1.52
1	dx	144	MET	CA-CB	6.69	1.64	1.53
1	dG	18	ARG	CD-NE	6.69	1.55	1.46
1	eE	15	ILE	CA-C	6.69	1.60	1.52
1	fZ	50	GLN	CA-CB	6.69	1.63	1.53
1	t	62	HIS	CB-CG	6.69	1.59	1.50
1	U	84	HIS	ND1-CE1	6.69	1.39	1.32
1	8	165	VAL	C-O	-6.69	1.16	1.24
1	h6	47	ALA	CA-C	-6.69	1.44	1.52
1	iX	157	PRO	N-CA	-6.69	1.38	1.47
1	jQ	120	HIS	CA-C	6.69	1.62	1.53
1	lI	19	THR	C-N	6.69	1.43	1.34
1	2c	36	VAL	C-N	6.69	1.41	1.33
1	3e	156	GLY	C-N	6.69	1.41	1.34
1	3v	167	ARG	CA-C	6.69	1.61	1.52
1	3S	93	PRO	CA-C	6.69	1.60	1.52
1	5o	2	ILE	C-N	6.69	1.40	1.33
1	7X	33	SER	CA-C	-6.69	1.45	1.52
1	9H	117	TRP	CA-C	-6.69	1.43	1.52
1	ao	30	LYS	CA-C	-6.69	1.43	1.52
1	aU	211	LEU	C-N	6.69	1.42	1.33
1	bo	143	ARG	NE-CZ	-6.69	1.25	1.33
1	bO	92	GLU	C-N	6.69	1.41	1.33
1	cn	184	TRP	CZ2-CH2	6.69	1.50	1.37
1	cS	226	HIS	ND1-CE1	6.69	1.39	1.32
1	dn	71	GLU	C-N	-6.69	1.25	1.33
1	dD	120	HIS	ND1-CE1	6.69	1.39	1.32
1	fy	37	ILE	CA-CB	-6.69	1.50	1.54
1	fE	180	GLU	N-CA	-6.69	1.38	1.46
1	gG	43	LEU	N-CA	-6.68	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gS	23	TRP	CA-CB	6.68	1.63	1.53
1	i9	15	ILE	CA-C	6.68	1.60	1.52
1	1Q	143	ARG	C-O	-6.68	1.16	1.24
1	20	126	VAL	C-O	-6.68	1.16	1.24
1	kK	120	HIS	CE1-NE2	-6.68	1.25	1.32
1	2e	154	ARG	CD-NE	6.68	1.55	1.46
1	2n	117	TRP	N-CA	6.68	1.54	1.46
1	2M	13	GLN	CA-CB	6.68	1.64	1.53
1	3s	168	PHE	CA-CB	6.68	1.63	1.53
1	3T	208	ALA	N-CA	-6.68	1.38	1.46
1	47	11	VAL	CA-C	6.68	1.60	1.52
1	4n	62	HIS	CE1-NE2	6.68	1.39	1.32
1	4r	198	CYS	CA-CB	6.68	1.64	1.53
1	6z	167	ARG	CA-CB	6.68	1.63	1.53
1	6L	65	ALA	CA-C	6.68	1.61	1.52
1	7Z	79	GLU	CA-C	6.68	1.61	1.52
1	83	155	GLN	CA-C	-6.68	1.44	1.52
1	8x	229	ARG	CA-CB	6.68	1.64	1.53
1	90	177	ALA	CA-CB	6.68	1.64	1.53
1	9o	187	GLU	CA-C	6.68	1.61	1.52
1	bb	171	THR	C-N	6.68	1.42	1.33
1	bm	199	LYS	C-N	6.68	1.42	1.33
1	dS	111	LEU	CA-CB	6.68	1.63	1.53
1	fd	84	HIS	CA-CB	6.68	1.63	1.53
1	fS	71	GLU	C-N	6.68	1.43	1.33
1	g2	204	ALA	CA-C	6.68	1.61	1.52
1	gt	70	LYS	CA-CB	6.68	1.64	1.53
1	1J	116	GLY	N-CA	6.68	1.55	1.45
1	1J	141	ILE	CA-CB	-6.68	1.46	1.54
1	hr	146	SER	CA-C	-6.68	1.45	1.53
1	hJ	143	ARG	N-CA	-6.68	1.38	1.46
1	iT	58	THR	C-N	6.68	1.42	1.33
1	kx	99	PRO	CA-C	-6.68	1.44	1.52
1	4G	108	THR	N-CA	-6.68	1.38	1.46
1	5v	82	ARG	CZ-NH2	-6.68	1.24	1.33
1	6r	188	THR	CA-CB	6.68	1.64	1.53
1	7O	123	PRO	CA-C	-6.68	1.43	1.52
1	82	5	ASN	CA-C	6.68	1.61	1.52
1	8z	85	PRO	N-CA	6.68	1.55	1.47
1	9f	173	ARG	CD-NE	6.68	1.55	1.46
1	9j	142	VAL	CA-CB	-6.68	1.46	1.54
1	9M	154	ARG	CA-CB	6.68	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	18	80	TRP	N-CA	6.68	1.54	1.46
1	bH	58	THR	CB-OG1	-6.68	1.33	1.43
1	bI	37	ILE	CA-CB	6.68	1.57	1.54
1	cn	142	VAL	N-CA	6.68	1.54	1.46
1	dv	59	VAL	C-N	6.68	1.43	1.33
1	dz	45	GLU	CA-CB	6.68	1.62	1.53
1	eh	162	ARG	CA-C	-6.68	1.44	1.52
1	ew	81	ASP	CA-C	-6.68	1.44	1.52
1	1s	185	MET	CA-C	6.68	1.61	1.52
1	eQ	121	ASN	N-CA	-6.68	1.39	1.46
1	ff	98	GLU	CA-C	6.68	1.60	1.52
1	fy	20	LEU	CA-C	-6.68	1.44	1.52
1	fy	84	HIS	ND1-CE1	6.68	1.39	1.32
1	fO	226	HIS	CB-CG	6.68	1.59	1.50
1	n	141	ILE	CA-CB	-6.68	1.46	1.54
1	B	200	THR	N-CA	6.68	1.54	1.46
1	U	87	HIS	ND1-CE1	6.68	1.39	1.32
1	iz	66	MET	C-N	6.68	1.42	1.33
1	iM	178	SER	CA-C	6.68	1.61	1.52
1	kg	87	HIS	ND1-CE1	6.68	1.39	1.32
1	l6	112	GLN	CA-C	6.68	1.61	1.52
1	lq	191	VAL	CA-C	-6.68	1.44	1.52
1	lQ	226	HIS	ND1-CE1	6.68	1.39	1.32
1	2F	2	ILE	N-CA	6.68	1.54	1.46
1	3x	134	ILE	N-CA	6.68	1.54	1.46
1	3A	207	PRO	N-CA	-6.68	1.38	1.47
1	3Y	146	SER	C-N	6.68	1.39	1.33
1	4A	132	ARG	CD-NE	6.68	1.55	1.46
1	6v	172	LEU	C-N	6.68	1.42	1.33
1	8i	44	SER	CA-CB	6.68	1.63	1.53
1	8w	32	PHE	C-N	6.68	1.43	1.33
1	b4	84	HIS	N-CA	6.68	1.54	1.46
1	b6	62	HIS	CA-C	6.68	1.61	1.53
1	ch	56	LEU	CA-CB	6.68	1.64	1.53
1	cM	24	VAL	C-N	6.68	1.43	1.34
1	eb	204	ALA	C-N	6.68	1.42	1.34
1	fi	98	GLU	CA-C	6.68	1.61	1.53
1	V	42	ALA	CA-C	6.68	1.61	1.52
1	gH	115	ILE	CA-CB	6.68	1.63	1.54
1	gL	24	VAL	CA-CB	6.68	1.62	1.54
1	hH	30	LYS	CA-CB	6.68	1.65	1.53
1	1O	173	ARG	CD-NE	6.68	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Q	195	ASN	CA-CB	6.68	1.63	1.53
1	jy	208	ALA	CA-C	-6.68	1.44	1.52
1	jA	169	TYR	C-N	6.68	1.42	1.33
1	jK	128	GLU	CA-C	-6.68	1.44	1.52
1	21	107	THR	N-CA	6.68	1.54	1.46
1	kt	161	PHE	CA-C	-6.68	1.44	1.52
1	l2	163	ASP	C-N	6.68	1.42	1.33
1	lK	74	ASN	CA-C	-6.68	1.44	1.52
1	lM	82	ARG	CD-NE	6.68	1.55	1.46
1	34	59	VAL	CA-CB	-6.68	1.46	1.54
1	8z	185	MET	C-N	6.68	1.43	1.33
1	8P	4	GLN	CA-C	6.68	1.61	1.52
1	ak	41	SER	C-N	6.68	1.42	1.33
1	at	173	ARG	CA-CB	6.68	1.63	1.53
1	ay	86	VAL	CA-C	-6.68	1.44	1.52
1	bb	92	GLU	CA-CB	6.68	1.64	1.53
1	bm	212	GLU	C-N	6.68	1.42	1.33
1	bI	172	LEU	CA-CB	6.68	1.63	1.53
1	bN	93	PRO	CA-CB	6.68	1.63	1.53
1	c3	64	ALA	C-O	-6.68	1.16	1.24
1	cp	178	SER	CA-CB	6.68	1.63	1.53
1	1k	85	PRO	N-CA	-6.68	1.38	1.47
1	eu	198	CYS	CA-C	6.68	1.61	1.52
1	eP	96	MET	CA-CB	6.68	1.64	1.53
1	g6	18	ARG	CA-C	6.68	1.61	1.52
1	p	133	TRP	CA-C	6.68	1.61	1.52
1	gE	195	ASN	CA-CB	6.68	1.63	1.53
1	h0	50	GLN	C-N	6.68	1.43	1.33
1	hc	217	ALA	CA-CB	6.68	1.63	1.53
1	jf	37	ILE	CB-CG1	6.68	1.66	1.53
1	48	158	LYS	CA-C	6.68	1.61	1.52
1	4m	18	ARG	CA-CB	6.68	1.64	1.53
1	5L	212	GLU	CA-CB	6.68	1.63	1.53
1	61	208	ALA	CA-C	6.68	1.61	1.53
1	6c	65	ALA	N-CA	-6.68	1.37	1.46
1	6o	104	ILE	CA-CB	6.68	1.62	1.54
1	7b	150	ILE	CA-C	6.68	1.61	1.52
1	9F	15	ILE	CA-C	6.68	1.60	1.53
1	19	167	ARG	C-N	6.68	1.43	1.33
1	cE	60	GLY	CA-C	-6.68	1.42	1.51
1	cF	84	HIS	CG-ND1	6.68	1.45	1.38
1	cO	23	TRP	CA-CB	6.68	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ed	229	ARG	CA-C	-6.68	1.44	1.52
1	eY	140	LYS	CA-C	6.68	1.61	1.52
1	R	101	GLY	N-CA	6.68	1.55	1.45
1	gv	226	HIS	CD2-NE2	6.68	1.45	1.37
1	is	115	ILE	CA-CB	-6.68	1.46	1.54
1	iW	87	HIS	ND1-CE1	6.68	1.39	1.32
1	jJ	120	HIS	ND1-CE1	6.68	1.39	1.32
1	lj	168	PHE	CA-CB	6.68	1.63	1.53
1	ll	83	LEU	CA-C	-6.68	1.44	1.52
1	lq	154	ARG	CD-NE	6.68	1.55	1.46
1	2t	49	PRO	CA-C	-6.68	1.41	1.52
1	3r	33	SER	C-N	-6.68	1.26	1.34
1	4h	103	ASP	CA-C	6.68	1.61	1.52
1	4C	67	GLN	CA-C	6.68	1.61	1.52
1	4E	201	ILE	CA-CB	-6.68	1.45	1.54
1	5q	184	TRP	CA-C	6.68	1.61	1.52
1	5J	176	GLN	CA-CB	6.68	1.65	1.53
1	6n	82	ARG	CD-NE	6.68	1.55	1.46
1	6O	132	ARG	CD-NE	6.68	1.55	1.46
1	8a	97	ARG	N-CA	6.68	1.54	1.46
1	8d	167	ARG	NE-CZ	6.68	1.40	1.33
1	8g	133	TRP	CA-CB	6.68	1.64	1.53
1	8g	190	LEU	CA-CB	6.68	1.63	1.53
1	aJ	84	HIS	CA-C	6.68	1.59	1.52
1	b3	144	MET	CA-CB	6.68	1.64	1.53
1	bd	72	THR	C-N	6.68	1.42	1.33
1	c3	12	HIS	ND1-CE1	6.68	1.39	1.32
1	1h	100	ARG	CA-C	6.68	1.62	1.53
1	dB	148	THR	C-N	6.68	1.42	1.33
1	e8	171	THR	C-N	6.68	1.42	1.33
1	ec	88	ALA	CA-C	-6.68	1.44	1.52
1	es	136	LEU	C-N	6.68	1.42	1.33
1	n	192	GLN	CA-C	6.68	1.61	1.52
1	G	12	HIS	ND1-CE1	6.68	1.39	1.32
1	gk	110	THR	C-N	6.67	1.42	1.33
1	gt	185	MET	CA-CB	6.67	1.63	1.53
1	iJ	44	SER	CA-CB	6.67	1.63	1.53
1	1S	27	VAL	CA-CB	-6.67	1.46	1.54
1	js	123	PRO	CA-CB	6.67	1.62	1.53
1	l8	71	GLU	C-O	-6.67	1.15	1.24
1	lJ	147	PRO	C-N	6.67	1.41	1.33
1	lL	161	PHE	CA-C	6.67	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2k	100	ARG	C-N	6.67	1.43	1.33
1	2m	141	ILE	CA-C	-6.67	1.44	1.52
1	3i	181	VAL	CA-C	6.67	1.61	1.52
1	3j	214	MET	CA-C	-6.67	1.44	1.52
1	3n	18	ARG	CD-NE	6.67	1.55	1.46
1	3B	181	VAL	CA-C	6.67	1.61	1.52
1	4I	53	ASN	CA-CB	6.67	1.63	1.53
1	4Z	25	LYS	C-N	6.67	1.42	1.33
1	53	83	LEU	C-N	6.67	1.41	1.33
1	6p	226	HIS	CB-CG	6.67	1.59	1.50
1	6v	211	LEU	N-CA	6.67	1.54	1.46
1	6M	152	ASP	CA-CB	6.67	1.62	1.53
1	7t	143	ARG	CD-NE	6.67	1.55	1.46
1	81	123	PRO	CA-CB	6.67	1.62	1.53
1	8h	126	VAL	N-CA	-6.67	1.38	1.46
1	8C	18	ARG	CA-C	6.67	1.61	1.52
1	8N	56	LEU	CA-CB	6.67	1.63	1.53
1	99	121	ASN	CA-CB	6.67	1.64	1.54
1	9Q	151	LEU	CA-C	-6.67	1.44	1.52
1	am	206	GLY	C-N	-6.67	1.28	1.33
1	aD	212	GLU	CA-CB	6.67	1.63	1.53
1	b6	199	LYS	CA-CB	6.67	1.64	1.53
1	bb	87	HIS	C-N	6.67	1.42	1.33
1	bx	50	GLN	CA-C	6.67	1.61	1.52
1	dm	86	VAL	CA-C	6.67	1.60	1.52
1	do	206	GLY	N-CA	6.67	1.53	1.44
1	ds	64	ALA	N-CA	-6.67	1.38	1.46
1	dY	170	LYS	CA-C	-6.67	1.44	1.52
1	1t	81	ASP	N-CA	-6.67	1.38	1.46
1	eR	197	ASP	CA-C	6.67	1.61	1.52
1	fd	160	PRO	CA-C	6.67	1.60	1.52
1	g2	69	LEU	C-N	6.67	1.43	1.34
1	D	2	ILE	C-N	6.67	1.41	1.33
1	L	149	SER	CA-C	6.67	1.60	1.52
1	P	21	ASN	CA-C	6.67	1.61	1.52
1	gP	111	LEU	N-CA	6.67	1.54	1.46
1	hg	157	PRO	CA-CB	-6.67	1.43	1.53
1	hV	98	GLU	CA-C	6.67	1.60	1.53
1	hW	209	ALA	N-CA	-6.67	1.37	1.46
1	1O	224	PRO	CA-CB	6.67	1.62	1.53
1	im	158	LYS	CA-CB	6.67	1.62	1.53
1	im	199	LYS	C-N	6.67	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ir	111	LEU	N-CA	-6.67	1.38	1.46
1	jO	2	ILE	CA-CB	6.67	1.62	1.54
1	kh	229	ARG	CA-C	6.67	1.61	1.52
1	kk	198	CYS	C-O	-6.67	1.15	1.24
1	ln	25	LYS	CA-C	6.67	1.61	1.52
1	3Y	84	HIS	CE1-NE2	-6.67	1.25	1.32
1	6A	130	TYR	N-CA	6.67	1.54	1.46
1	6Y	11	VAL	C-N	6.67	1.43	1.33
1	75	199	LYS	C-N	6.67	1.43	1.33
1	78	27	VAL	CA-C	6.67	1.60	1.52
1	91	5	ASN	CA-C	-6.67	1.44	1.52
1	9B	107	THR	N-CA	6.67	1.54	1.46
1	at	97	ARG	CA-C	-6.67	1.44	1.52
1	dV	12	HIS	CE1-NE2	-6.67	1.25	1.32
1	eT	26	VAL	CA-CB	-6.67	1.45	1.54
1	1w	206	GLY	C-N	6.67	1.39	1.33
1	fR	124	ILE	N-CA	6.67	1.51	1.46
1	gm	167	ARG	CA-C	6.67	1.61	1.52
1	hP	59	VAL	CA-CB	6.67	1.62	1.53
1	iP	142	VAL	CA-CB	-6.67	1.46	1.54
1	k3	171	THR	CA-C	-6.67	1.44	1.52
1	20	84	HIS	CA-CB	-6.67	1.44	1.53
1	kL	190	LEU	CA-C	-6.67	1.44	1.52
1	kW	33	SER	CA-CB	-6.67	1.45	1.54
1	lC	137	GLY	CA-C	-6.67	1.44	1.52
1	2j	46	GLY	CA-C	-6.67	1.42	1.51
1	2q	140	LYS	CA-CB	6.67	1.63	1.53
1	3u	37	ILE	N-CA	-6.67	1.38	1.46
1	3P	83	LEU	CA-CB	6.67	1.63	1.53
1	4d	169	TYR	CA-C	6.67	1.61	1.52
1	4w	139	ASN	CA-CB	6.67	1.63	1.53
1	4E	133	TRP	CA-C	6.67	1.61	1.52
1	6n	178	SER	N-CA	-6.67	1.38	1.45
1	7I	123	PRO	C-N	6.67	1.39	1.33
1	8P	190	LEU	C-N	6.67	1.41	1.34
1	91	191	VAL	N-CA	-6.67	1.38	1.46
1	a4	86	VAL	N-CA	6.67	1.54	1.46
1	a9	212	GLU	C-N	6.67	1.42	1.33
1	aq	18	ARG	CD-NE	6.67	1.55	1.46
1	aK	190	LEU	CA-C	6.67	1.61	1.52
1	14	189	LEU	N-CA	6.67	1.54	1.46
1	1c	115	ILE	N-CA	-6.67	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ce	39	MET	CA-C	-6.67	1.44	1.52
1	d0	178	SER	C-N	6.67	1.42	1.33
1	dq	190	LEU	CA-CB	6.67	1.63	1.53
1	1o	159	GLU	CA-C	6.67	1.60	1.53
1	ei	59	VAL	N-CA	-6.67	1.39	1.46
1	ex	25	LYS	C-N	6.67	1.42	1.33
1	eL	17	PRO	CA-CB	6.67	1.63	1.53
1	eX	34	PRO	C-N	6.67	1.43	1.33
1	u	129	ILE	CA-CB	-6.67	1.47	1.54
1	X	205	LEU	C-N	6.67	1.43	1.33
1	g9	23	TRP	C-O	-6.67	1.16	1.24
1	hN	60	GLY	C-N	6.67	1.42	1.33
1	hZ	173	ARG	CA-CB	6.67	1.63	1.53
1	ie	35	GLU	CA-C	6.67	1.61	1.52
1	kI	84	HIS	CG-CD2	6.67	1.43	1.35
1	2A	135	ILE	C-N	6.67	1.42	1.33
1	3a	184	TRP	CA-CB	6.67	1.63	1.53
1	7D	92	GLU	CA-C	6.67	1.61	1.52
1	8x	70	LYS	CA-C	-6.67	1.44	1.52
1	8Y	103	ASP	C-N	6.67	1.42	1.33
1	94	222	GLY	N-CA	6.67	1.55	1.45
1	aw	185	MET	N-CA	-6.67	1.38	1.46
1	ay	111	LEU	N-CA	-6.67	1.37	1.46
1	bP	16	SER	CA-CB	6.67	1.64	1.53
1	cm	159	GLU	C-N	6.67	1.42	1.33
1	dZ	19	THR	CA-C	6.67	1.61	1.52
1	fq	103	ASP	N-CA	-6.67	1.38	1.46
1	fs	138	LEU	N-CA	-6.67	1.38	1.46
1	gI	210	THR	N-CA	-6.67	1.37	1.46
1	h1	98	GLU	CA-CB	6.67	1.62	1.53
1	ht	128	GLU	CA-CB	6.67	1.63	1.53
1	1L	3	VAL	CA-C	6.67	1.61	1.53
1	1S	136	LEU	CA-CB	6.67	1.63	1.53
1	jZ	157	PRO	N-CA	-6.67	1.38	1.47
1	kF	116	GLY	CA-C	6.67	1.59	1.52
1	kL	116	GLY	C-N	6.67	1.42	1.33
1	lC	33	SER	N-CA	6.67	1.53	1.46
1	lI	63	GLN	CA-C	6.67	1.61	1.52
1	lR	205	LEU	CA-CB	6.67	1.63	1.53
1	2i	32	PHE	CA-CB	6.67	1.64	1.53
1	34	155	GLN	CA-C	6.67	1.61	1.52
1	3E	13	GLN	C-N	6.67	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4f	213	GLU	N-CA	-6.67	1.38	1.46
1	4R	12	HIS	ND1-CE1	6.67	1.39	1.32
1	6v	71	GLU	CA-C	-6.67	1.44	1.52
1	6x	84	HIS	ND1-CE1	6.67	1.39	1.32
1	71	201	ILE	CA-CB	-6.67	1.46	1.54
1	7K	150	ILE	CA-C	6.67	1.61	1.52
1	aq	182	LYS	CA-CB	6.67	1.63	1.53
1	aJ	87	HIS	CE1-NE2	6.67	1.39	1.32
1	aO	113	GLU	C-N	6.67	1.42	1.33
1	aU	137	GLY	C-N	6.67	1.42	1.33
1	aV	86	VAL	CA-CB	-6.67	1.45	1.54
1	bn	53	ASN	CA-C	-6.67	1.44	1.52
1	bs	82	ARG	CA-CB	6.67	1.63	1.53
1	bI	18	ARG	C-N	6.67	1.43	1.33
1	cU	45	GLU	N-CA	-6.67	1.37	1.46
1	dc	62	HIS	CE1-NE2	6.67	1.39	1.32
1	dt	34	PRO	CA-C	6.67	1.61	1.52
1	dx	5	ASN	CA-CB	6.67	1.65	1.53
1	dA	224	PRO	CA-C	6.67	1.60	1.52
1	f9	217	ALA	N-CA	-6.67	1.38	1.45
1	fp	117	TRP	CA-C	6.67	1.61	1.52
1	0	230	VAL	N-CA	-6.67	1.38	1.46
1	E	123	PRO	CA-CB	-6.67	1.45	1.53
1	K	128	GLU	CA-C	6.67	1.61	1.52
1	gS	181	VAL	N-CA	6.67	1.55	1.46
1	jb	41	SER	CA-CB	6.67	1.63	1.53
1	kl	221	VAL	CA-C	-6.67	1.44	1.52
1	kJ	68	MET	C-O	6.67	1.32	1.24
1	lG	110	THR	N-CA	-6.67	1.38	1.46
1	2o	153	ILE	C-O	-6.67	1.17	1.24
1	2J	82	ARG	CD-NE	6.67	1.55	1.46
1	3A	175	GLU	CA-CB	6.67	1.64	1.53
1	3G	87	HIS	N-CA	6.67	1.54	1.46
1	3Y	84	HIS	ND1-CE1	6.67	1.39	1.32
1	4K	152	ASP	CA-CB	6.67	1.58	1.53
1	5D	59	VAL	CA-C	6.67	1.59	1.53
1	5Y	119	THR	C-N	6.67	1.42	1.33
1	7d	115	ILE	CB-CG1	6.67	1.66	1.53
1	7N	91	ILE	N-CA	6.67	1.54	1.46
1	7U	213	GLU	C-N	6.67	1.43	1.34
1	82	153	ILE	CA-CB	-6.67	1.46	1.54
1	8C	139	ASN	CA-C	6.67	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8O	47	ALA	CA-C	-6.67	1.44	1.52
1	9f	92	GLU	CA-C	-6.67	1.44	1.53
1	9x	79	GLU	N-CA	6.67	1.54	1.46
1	b1	134	ILE	CA-C	-6.67	1.44	1.52
1	bO	225	GLY	CA-C	6.67	1.60	1.51
1	cA	35	GLU	C-N	6.67	1.41	1.34
1	cR	172	LEU	C-N	6.67	1.43	1.33
1	eC	186	THR	CA-C	-6.67	1.43	1.52
1	fv	124	ILE	N-CA	-6.67	1.40	1.46
1	b	173	ARG	C-N	6.67	1.42	1.33
1	g8	5	ASN	CA-CB	6.67	1.64	1.54
1	go	226	HIS	CB-CG	6.67	1.59	1.50
1	i1	184	TRP	CA-CB	6.67	1.63	1.53
1	iM	182	LYS	CA-C	6.67	1.61	1.52
1	jy	178	SER	C-N	6.67	1.43	1.33
1	k9	177	ALA	C-N	6.67	1.42	1.33
1	ke	140	LYS	C-N	6.67	1.42	1.33
1	l7	69	LEU	CA-C	6.67	1.61	1.52
1	5g	225	GLY	CA-C	-6.67	1.42	1.51
1	5z	188	THR	CA-CB	6.67	1.63	1.53
1	5J	136	LEU	N-CA	-6.67	1.38	1.46
1	5U	86	VAL	CA-C	-6.67	1.45	1.52
1	9d	1	PRO	N-CD	6.67	1.57	1.47
1	9F	224	PRO	CA-C	6.67	1.58	1.53
1	am	169	TYR	CA-CB	6.67	1.63	1.53
1	15	204	ALA	CA-C	6.67	1.64	1.52
1	cm	41	SER	C-N	6.67	1.43	1.33
1	fr	62	HIS	CE1-NE2	6.67	1.39	1.32
1	9	104	ILE	CA-CB	-6.67	1.46	1.54
1	h4	15	ILE	CA-CB	6.66	1.61	1.54
1	hV	144	MET	N-CA	-6.66	1.38	1.46
1	1O	178	SER	C-N	6.66	1.42	1.33
1	iI	226	HIS	ND1-CE1	6.66	1.39	1.32
1	2y	195	ASN	CA-CB	6.66	1.63	1.53
1	35	133	TRP	N-CA	-6.66	1.37	1.46
1	3i	135	ILE	CA-CB	6.66	1.61	1.54
1	4M	41	SER	N-CA	6.66	1.54	1.46
1	5s	112	GLN	CA-C	-6.66	1.44	1.52
1	5z	99	PRO	N-CA	-6.66	1.39	1.47
1	5W	229	ARG	CD-NE	6.66	1.55	1.46
1	6k	23	TRP	CA-C	6.66	1.61	1.52
1	6X	176	GLN	N-CA	-6.66	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	78	124	ILE	CA-C	-6.66	1.47	1.53
1	7u	214	MET	C-N	6.66	1.43	1.34
1	8e	62	HIS	CA-CB	6.66	1.63	1.53
1	96	73	ILE	N-CA	6.66	1.54	1.46
1	a1	74	ASN	CA-C	6.66	1.61	1.52
1	1e	15	ILE	CA-C	6.66	1.59	1.52
1	1j	152	ASP	CA-C	6.66	1.61	1.52
1	1t	75	GLU	CA-C	-6.66	1.44	1.52
1	fq	118	MET	CA-C	6.66	1.61	1.52
1	fG	162	ARG	C-N	6.66	1.43	1.33
1	fQ	12	HIS	CA-CB	6.66	1.64	1.53
1	fW	96	MET	C-N	6.66	1.43	1.33
1	0	113	GLU	CA-C	-6.66	1.44	1.52
1	o	77	ALA	CA-CB	6.66	1.63	1.53
1	gT	173	ARG	CZ-NH2	-6.66	1.24	1.33
1	hw	146	SER	C-O	-6.66	1.19	1.25
1	hI	27	VAL	CA-CB	-6.66	1.45	1.54
1	hQ	66	MET	CA-CB	6.66	1.64	1.53
1	ix	100	ARG	CD-NE	6.66	1.55	1.46
1	3L	146	SER	CA-CB	6.66	1.63	1.53
1	3W	179	GLN	C-N	6.66	1.42	1.33
1	57	16	SER	C-N	-6.66	1.25	1.34
1	9d	16	SER	CA-C	6.66	1.60	1.52
1	9F	14	ALA	C-N	6.66	1.40	1.33
1	a0	41	SER	CA-CB	6.66	1.63	1.53
1	aq	208	ALA	N-CA	-6.66	1.37	1.46
1	bS	197	ASP	CA-C	6.66	1.61	1.52
1	fD	59	VAL	CA-CB	-6.66	1.45	1.53
1	gV	78	ALA	N-CA	-6.66	1.38	1.46
1	il	113	GLU	CA-C	6.66	1.61	1.52
1	1Q	145	TYR	N-CA	6.66	1.53	1.46
1	jD	180	GLU	CA-C	-6.66	1.44	1.52
1	kf	115	ILE	CA-CB	6.66	1.63	1.54
1	kW	146	SER	CA-CB	6.66	1.62	1.53
1	2y	84	HIS	CA-CB	6.66	1.64	1.53
1	2z	7	GLN	CA-CB	6.66	1.62	1.53
1	2K	84	HIS	ND1-CE1	6.66	1.39	1.32
1	37	221	VAL	CA-C	6.66	1.61	1.52
1	4A	172	LEU	CA-CB	6.66	1.64	1.53
1	4P	58	THR	N-CA	-6.66	1.38	1.46
1	51	39	MET	CA-CB	6.66	1.63	1.53
1	6E	26	VAL	C-O	-6.66	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6O	82	ARG	CA-C	6.66	1.61	1.52
1	6Y	162	ARG	CD-NE	6.66	1.55	1.46
1	7E	72	THR	C-N	6.66	1.42	1.33
1	7W	157	PRO	CA-CB	6.66	1.64	1.53
1	7Z	56	LEU	C-N	6.66	1.42	1.33
1	87	185	MET	N-CA	6.66	1.54	1.46
1	9h	155	GLN	N-CA	-6.66	1.38	1.46
1	9C	228	ALA	CA-C	-6.66	1.44	1.52
1	9F	21	ASN	N-CA	-6.66	1.38	1.46
1	cG	137	GLY	CA-C	-6.66	1.44	1.52
1	1j	84	HIS	ND1-CE1	6.66	1.39	1.32
1	ex	37	ILE	CA-CB	6.66	1.57	1.54
1	1t	174	ALA	C-N	6.66	1.42	1.33
1	eR	224	PRO	CA-C	-6.66	1.45	1.52
1	fe	3	VAL	CA-C	6.66	1.60	1.52
1	f	197	ASP	CA-CB	6.66	1.64	1.53
1	u	150	ILE	C-N	6.66	1.44	1.33
1	3	182	LYS	N-CA	-6.66	1.38	1.46
1	h0	12	HIS	ND1-CE1	6.66	1.39	1.32
1	h0	174	ALA	CA-CB	6.66	1.63	1.53
1	h9	38	PRO	C-O	6.66	1.31	1.24
1	hv	15	ILE	CA-C	-6.66	1.44	1.52
1	kD	60	GLY	N-CA	6.66	1.55	1.45
1	lt	39	MET	C-O	-6.66	1.16	1.24
1	lB	171	THR	N-CA	-6.66	1.38	1.46
1	2e	19	THR	N-CA	6.66	1.54	1.46
1	2R	135	ILE	CA-C	-6.66	1.44	1.52
1	3d	49	PRO	CA-C	6.66	1.61	1.52
1	4y	190	LEU	CA-C	6.66	1.61	1.52
1	4L	203	LYS	N-CA	-6.66	1.38	1.46
1	4S	175	GLU	CA-CB	6.66	1.63	1.53
1	56	147	PRO	CA-C	-6.66	1.43	1.52
1	67	173	ARG	CA-C	6.66	1.61	1.52
1	6c	65	ALA	CA-C	6.66	1.61	1.52
1	7p	210	THR	C-N	6.66	1.43	1.33
1	7B	226	HIS	ND1-CE1	6.66	1.39	1.32
1	7F	180	GLU	N-CA	-6.66	1.37	1.46
1	aL	121	ASN	N-CA	-6.66	1.38	1.46
1	cl	138	LEU	N-CA	6.66	1.54	1.46
1	1f	161	PHE	CA-C	6.66	1.61	1.52
1	cD	138	LEU	N-CA	-6.66	1.38	1.46
1	di	12	HIS	CD2-NE2	6.66	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	di	120	HIS	CE1-NE2	-6.66	1.25	1.32
1	dW	52	LEU	N-CA	-6.66	1.38	1.46
1	e6	229	ARG	CA-C	6.66	1.61	1.52
1	eM	114	GLN	C-N	6.66	1.42	1.33
1	f2	35	GLU	N-CA	6.66	1.54	1.46
1	fl	125	PRO	CA-CB	6.66	1.60	1.53
1	fu	161	PHE	C-N	6.66	1.42	1.33
1	a	197	ASP	N-CA	-6.66	1.38	1.46
1	A	120	HIS	CA-CB	6.66	1.64	1.53
1	h1	229	ARG	N-CA	-6.66	1.37	1.46
1	1M	123	PRO	C-N	6.66	1.39	1.33
1	4G	64	ALA	N-CA	-6.66	1.37	1.46
1	6v	42	ALA	CA-C	-6.66	1.43	1.52
1	aw	9	GLN	CA-CB	6.66	1.63	1.53
1	bt	124	ILE	CA-CB	-6.66	1.46	1.53
1	bZ	166	ASP	CA-C	6.66	1.61	1.52
1	cf	181	VAL	CA-CB	6.66	1.62	1.54
1	ck	65	ALA	N-CA	6.66	1.54	1.46
1	eq	152	ASP	CA-C	6.66	1.62	1.52
1	eW	173	ARG	CD-NE	6.66	1.55	1.46
1	fk	91	ILE	CA-CB	-6.66	1.46	1.54
1	fB	22	ALA	N-CA	6.66	1.54	1.46
1	gk	211	LEU	CA-C	6.66	1.61	1.52
1	gJ	138	LEU	CA-C	6.66	1.61	1.52
1	hh	147	PRO	N-CA	-6.66	1.38	1.47
1	j2	109	SER	C-O	-6.66	1.16	1.23
1	jx	28	GLU	N-CA	-6.66	1.38	1.46
1	k0	180	GLU	N-CA	6.66	1.54	1.46
1	39	152	ASP	CA-C	-6.66	1.43	1.52
1	3J	170	LYS	CA-C	-6.66	1.44	1.52
1	5f	42	ALA	C-N	6.66	1.42	1.33
1	5j	55	MET	N-CA	6.66	1.54	1.46
1	5E	186	THR	CA-C	6.66	1.61	1.52
1	6h	32	PHE	C-N	6.66	1.41	1.33
1	6C	98	GLU	CA-C	6.66	1.61	1.53
1	6Q	154	ARG	CA-C	-6.66	1.43	1.52
1	71	164	TYR	C-N	6.66	1.42	1.33
1	7I	213	GLU	C-N	6.66	1.42	1.33
1	8B	124	ILE	CA-C	6.66	1.58	1.53
1	8P	40	PHE	N-CA	-6.66	1.38	1.46
1	9h	198	CYS	CA-C	6.66	1.62	1.52
1	Y	167	ARG	CA-CB	6.66	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9S	158	LYS	CA-CB	6.66	1.62	1.53
1	aa	133	TRP	CA-CB	6.66	1.63	1.53
1	aa	184	TRP	CA-CB	6.66	1.63	1.53
1	b6	201	ILE	CA-CB	6.66	1.62	1.54
1	bd	225	GLY	C-N	6.66	1.42	1.33
1	bD	226	HIS	CE1-NE2	6.66	1.39	1.32
1	cF	150	ILE	N-CA	6.66	1.55	1.46
1	dU	36	VAL	C-N	6.66	1.42	1.34
1	f7	52	LEU	CA-C	-6.66	1.44	1.52
1	fi	135	ILE	N-CA	6.66	1.54	1.46
1	g3	78	ALA	CA-CB	6.66	1.63	1.53
1	u	197	ASP	N-CA	-6.66	1.38	1.46
1	hW	87	HIS	ND1-CE1	6.65	1.39	1.32
1	ip	87	HIS	CG-CD2	6.65	1.43	1.35
1	jm	115	ILE	CA-C	6.65	1.62	1.52
1	jm	217	ALA	CA-C	-6.65	1.44	1.53
1	k7	32	PHE	CA-CB	6.65	1.64	1.53
1	7B	105	ALA	C-N	6.65	1.42	1.33
1	80	76	GLU	C-N	6.65	1.42	1.33
1	b0	91	ILE	CA-CB	6.65	1.60	1.54
1	bI	189	LEU	CA-C	6.65	1.61	1.52
1	cl	112	GLN	C-N	6.65	1.42	1.33
1	e	131	LYS	CA-CB	6.65	1.63	1.53
1	m	160	PRO	N-CA	-6.65	1.39	1.47
1	G	104	ILE	N-CA	6.65	1.54	1.46
1	gb	172	LEU	N-CA	6.65	1.54	1.46
1	gm	87	HIS	C-N	6.65	1.43	1.33
1	hK	182	LYS	CA-CB	6.65	1.63	1.53
1	i7	166	ASP	CA-C	6.65	1.61	1.52
1	ik	99	PRO	CA-C	-6.65	1.44	1.52
1	ip	90	PRO	CA-CB	6.65	1.62	1.53
1	iZ	79	GLU	CA-C	6.65	1.61	1.52
1	lb	49	PRO	N-CA	-6.65	1.38	1.47
1	lf	19	THR	CA-C	-6.65	1.44	1.52
1	2k	32	PHE	CA-CB	6.65	1.63	1.53
1	2o	196	PRO	N-CA	-6.65	1.38	1.47
1	2A	58	THR	N-CA	6.65	1.54	1.46
1	2O	83	LEU	CA-CB	6.65	1.63	1.53
1	35	156	GLY	N-CA	6.65	1.51	1.43
1	3v	220	GLY	CA-C	-6.65	1.42	1.51
1	4s	159	GLU	C-N	-6.65	1.25	1.33
1	4F	132	ARG	CA-CB	6.65	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5D	208	ALA	CA-C	6.65	1.61	1.52
1	67	18	ARG	CA-CB	6.65	1.63	1.53
1	6H	62	HIS	ND1-CE1	6.65	1.39	1.32
1	7p	154	ARG	CD-NE	6.65	1.55	1.46
1	7w	55	MET	CA-CB	6.65	1.63	1.53
1	7K	14	ALA	C-N	6.65	1.42	1.33
1	8U	173	ARG	N-CA	-6.65	1.38	1.46
1	9b	3	VAL	N-CA	6.65	1.53	1.46
1	9e	114	GLN	C-N	6.65	1.42	1.33
1	9t	105	ALA	C-O	-6.65	1.15	1.24
1	Y	25	LYS	C-N	6.65	1.42	1.33
1	12	87	HIS	CD2-NE2	6.65	1.45	1.37
1	bb	111	LEU	CA-CB	6.65	1.64	1.53
1	bA	27	VAL	N-CA	-6.65	1.38	1.46
1	c0	214	MET	C-N	6.65	1.42	1.33
1	co	180	GLU	C-N	6.65	1.42	1.33
1	cF	93	PRO	CA-C	-6.65	1.44	1.52
1	1i	129	ILE	N-CA	6.65	1.54	1.46
1	eC	119	THR	C-N	-6.65	1.23	1.33
1	eX	200	THR	N-CA	6.65	1.54	1.46
1	f8	224	PRO	C-N	6.65	1.42	1.33
1	e	97	ARG	CD-NE	6.65	1.55	1.46
1	gn	93	PRO	CA-CB	-6.65	1.46	1.53
1	gp	74	ASN	N-CA	6.65	1.54	1.46
1	gK	211	LEU	CA-C	6.65	1.61	1.52
1	h4	89	GLY	N-CA	6.65	1.53	1.44
1	hh	211	LEU	N-CA	-6.65	1.37	1.46
1	hE	67	GLN	C-N	6.65	1.42	1.33
1	1L	96	MET	C-N	6.65	1.43	1.33
1	1O	124	ILE	N-CA	6.65	1.51	1.46
1	ii	2	ILE	CB-CG1	6.65	1.66	1.53
1	1Z	201	ILE	C-N	6.65	1.42	1.33
1	22	134	ILE	CA-C	-6.65	1.44	1.52
1	kV	97	ARG	CA-C	6.65	1.60	1.52
1	ld	201	ILE	CA-C	-6.65	1.44	1.52
1	lM	20	LEU	C-N	6.65	1.42	1.33
1	2g	135	ILE	C-O	6.65	1.31	1.24
1	2o	12	HIS	CA-C	6.65	1.61	1.52
1	2p	186	THR	C-N	6.65	1.42	1.33
1	32	47	ALA	CA-C	6.65	1.61	1.52
1	4m	133	TRP	C-N	6.65	1.42	1.33
1	4X	37	ILE	CA-CB	6.65	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5i	77	ALA	N-CA	-6.65	1.37	1.46
1	5F	62	HIS	CE1-NE2	6.65	1.39	1.32
1	5J	147	PRO	N-CD	-6.65	1.38	1.47
1	5T	69	LEU	CA-CB	6.65	1.63	1.53
1	66	40	PHE	C-N	6.65	1.42	1.33
1	7w	217	ALA	N-CA	6.65	1.54	1.46
1	8a	81	ASP	N-CA	-6.65	1.38	1.46
1	94	59	VAL	C-N	6.65	1.39	1.33
1	9N	7	GLN	CA-CB	6.65	1.63	1.54
1	a6	117	TRP	CA-CB	6.65	1.63	1.53
1	a7	117	TRP	CA-C	6.65	1.61	1.52
1	dv	67	GLN	C-N	6.65	1.43	1.34
1	1l	76	GLU	N-CA	-6.65	1.38	1.46
1	1r	23	TRP	CA-C	-6.65	1.44	1.52
1	f4	11	VAL	CA-CB	-6.65	1.46	1.54
1	fd	27	VAL	CA-C	-6.65	1.44	1.52
1	fE	164	TYR	CA-C	6.65	1.61	1.52
1	a	88	ALA	N-CA	-6.65	1.38	1.46
1	o	41	SER	C-N	6.65	1.42	1.34
1	1F	183	ASN	C-N	6.65	1.43	1.33
1	hz	175	GLU	C-N	6.65	1.42	1.33
1	ib	161	PHE	CA-CB	6.65	1.64	1.53
1	ji	132	ARG	CD-NE	6.65	1.55	1.46
1	lI	222	GLY	CA-C	-6.65	1.42	1.51
1	3D	57	ASN	CA-CB	6.65	1.64	1.53
1	4j	163	ASP	CA-CB	6.65	1.64	1.53
1	4T	207	PRO	N-CA	6.65	1.55	1.47
1	5q	126	VAL	CA-C	6.65	1.61	1.52
1	7o	147	PRO	CA-C	-6.65	1.47	1.53
1	9i	210	THR	CA-C	6.65	1.61	1.52
1	by	81	ASP	N-CA	6.65	1.54	1.46
1	d9	226	HIS	ND1-CE1	6.65	1.39	1.32
1	dd	129	ILE	C-N	6.65	1.42	1.33
1	dt	134	ILE	C-N	6.65	1.42	1.33
1	f	199	LYS	CA-C	-6.65	1.43	1.52
1	1G	183	ASN	CA-C	-6.65	1.44	1.52
1	hj	190	LEU	CA-C	-6.65	1.44	1.52
1	hp	97	ARG	NE-CZ	-6.65	1.25	1.33
1	hU	46	GLY	CA-C	-6.65	1.42	1.51
1	j3	143	ARG	CA-C	6.65	1.61	1.52
1	jo	130	TYR	C-N	6.65	1.42	1.33
1	jq	133	TRP	N-CA	-6.65	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jy	96	MET	CA-CB	6.65	1.64	1.53
1	20	204	ALA	CA-CB	6.65	1.64	1.53
1	kT	84	HIS	CA-CB	6.65	1.62	1.53
1	kT	172	LEU	CA-C	6.65	1.61	1.52
1	2e	44	SER	CA-CB	6.65	1.63	1.53
1	44	16	SER	CA-C	-6.65	1.44	1.52
1	4F	125	PRO	CA-CB	6.65	1.60	1.53
1	4S	14	ALA	CA-C	6.65	1.61	1.52
1	67	140	LYS	CA-C	6.65	1.61	1.52
1	9S	56	LEU	CA-C	6.65	1.61	1.52
1	b7	89	GLY	N-CA	6.65	1.53	1.44
1	c2	70	LYS	CA-CB	6.65	1.63	1.53
1	cQ	142	VAL	N-CA	-6.65	1.38	1.46
1	dy	143	ARG	CA-C	6.65	1.61	1.52
1	eb	230	VAL	CA-C	-6.65	1.44	1.52
1	ff	5	ASN	N-CA	-6.65	1.38	1.46
1	fX	143	ARG	CA-CB	6.65	1.64	1.53
1	P	169	TYR	CA-CB	6.65	1.63	1.53
1	gt	204	ALA	CA-C	6.65	1.61	1.52
1	iu	136	LEU	CA-CB	6.65	1.63	1.53
1	j6	37	ILE	CA-CB	-6.65	1.50	1.54
1	lf	82	ARG	CD-NE	6.65	1.55	1.46
1	3q	153	ILE	CA-C	-6.65	1.45	1.53
1	9B	203	LYS	N-CA	-6.65	1.38	1.46
1	b9	27	VAL	C-O	-6.65	1.16	1.24
1	bL	120	HIS	ND1-CE1	6.65	1.39	1.32
1	W	71	GLU	CA-C	6.65	1.61	1.52
1	gQ	206	GLY	C-N	6.64	1.41	1.33
1	iA	156	GLY	CA-C	6.64	1.61	1.51
1	iE	45	GLU	C-N	6.64	1.40	1.33
1	iR	217	ALA	C-N	6.64	1.43	1.33
1	kX	224	PRO	N-CD	-6.64	1.38	1.47
1	lM	124	ILE	N-CA	-6.64	1.40	1.46
1	2t	225	GLY	N-CA	6.64	1.55	1.45
1	2A	44	SER	C-N	6.64	1.43	1.33
1	2I	87	HIS	CG-CD2	-6.64	1.28	1.35
1	2X	12	HIS	CB-CG	6.64	1.59	1.50
1	4E	43	LEU	CA-C	-6.64	1.43	1.52
1	9a	143	ARG	CA-CB	6.64	1.63	1.53
1	am	95	GLN	N-CA	-6.64	1.37	1.45
1	15	139	ASN	CA-C	6.64	1.61	1.52
1	b9	14	ALA	CA-C	6.64	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dB	217	ALA	CA-C	6.64	1.60	1.52
1	1n	140	LYS	CA-CB	6.64	1.63	1.53
1	em	29	GLU	CA-C	-6.64	1.44	1.52
1	H	52	LEU	CA-C	-6.64	1.44	1.52
1	gd	179	GLN	C-N	6.64	1.42	1.33
1	gI	218	CYS	C-N	6.64	1.43	1.33
1	gM	71	GLU	CA-CB	6.64	1.63	1.53
1	hd	74	ASN	CA-CB	6.64	1.63	1.53
1	hy	11	VAL	CA-C	-6.64	1.44	1.52
1	1K	16	SER	CA-C	-6.64	1.44	1.52
1	hR	182	LYS	C-N	6.64	1.42	1.33
1	iR	57	ASN	C-N	6.64	1.43	1.33
1	iW	183	ASN	C-N	6.64	1.42	1.33
1	j5	202	LEU	C-O	-6.64	1.15	1.24
1	jq	120	HIS	CA-C	6.64	1.61	1.52
1	kg	116	GLY	C-N	6.64	1.43	1.33
1	kp	217	ALA	CA-CB	6.64	1.63	1.53
1	kR	84	HIS	CG-CD2	6.64	1.43	1.35
1	kV	229	ARG	C-N	6.64	1.42	1.33
1	ln	88	ALA	CA-C	6.64	1.60	1.52
1	3l	44	SER	CA-CB	6.64	1.62	1.53
1	3B	12	HIS	ND1-CE1	6.64	1.39	1.32
1	4S	176	GLN	CA-CB	6.64	1.65	1.53
1	5q	69	LEU	CA-C	-6.64	1.44	1.52
1	5Y	207	PRO	CA-C	6.64	1.58	1.52
1	66	138	LEU	CA-C	-6.64	1.44	1.52
1	6D	224	PRO	CA-CB	6.64	1.62	1.53
1	7u	146	SER	CA-C	6.64	1.60	1.52
1	7v	11	VAL	C-N	6.64	1.43	1.33
1	9n	226	HIS	CA-C	-6.64	1.43	1.52
1	9u	139	ASN	C-N	6.64	1.42	1.33
1	9F	204	ALA	CA-C	6.64	1.61	1.52
1	b4	43	LEU	C-N	6.64	1.42	1.33
1	17	56	LEU	CA-C	-6.64	1.44	1.52
1	bm	207	PRO	N-CA	6.64	1.52	1.47
1	18	81	ASP	C-N	6.64	1.43	1.33
1	c5	226	HIS	CD2-NE2	6.64	1.45	1.37
1	ci	136	LEU	CA-CB	6.64	1.63	1.53
1	d0	99	PRO	CA-CB	6.64	1.62	1.53
1	dB	140	LYS	CA-C	6.64	1.61	1.52
1	dW	132	ARG	C-N	6.64	1.42	1.33
1	eN	32	PHE	C-N	6.64	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eO	120	HIS	ND1-CE1	6.64	1.39	1.32
1	eY	71	GLU	N-CA	-6.64	1.38	1.46
1	f8	224	PRO	CA-CB	6.64	1.62	1.53
1	fH	53	ASN	CA-CB	6.64	1.63	1.53
1	o	229	ARG	CA-C	-6.64	1.44	1.52
1	7	133	TRP	C-N	6.64	1.42	1.33
1	h1	132	ARG	CA-C	6.64	1.61	1.52
1	he	124	ILE	CA-C	6.64	1.58	1.53
1	hS	220	GLY	N-CA	6.64	1.50	1.44
1	js	23	TRP	CA-CB	6.64	1.63	1.53
1	jN	163	ASP	N-CA	6.64	1.54	1.46
1	kr	14	ALA	CA-C	6.64	1.61	1.52
1	ky	195	ASN	CA-C	6.64	1.60	1.53
1	lu	18	ARG	CA-C	-6.64	1.44	1.52
1	2O	62	HIS	CE1-NE2	6.64	1.39	1.32
1	2O	215	MET	C-N	6.64	1.42	1.33
1	3b	198	CYS	CA-CB	6.64	1.63	1.53
1	3K	164	TYR	N-CA	-6.64	1.38	1.46
1	44	202	LEU	C-N	6.64	1.42	1.33
1	47	75	GLU	CA-CB	6.64	1.63	1.53
1	5o	99	PRO	CA-C	6.64	1.58	1.52
1	5H	153	ILE	CA-CB	6.64	1.61	1.54
1	6U	11	VAL	CA-CB	-6.64	1.46	1.54
1	8q	87	HIS	N-CA	-6.64	1.38	1.46
1	cY	201	ILE	CA-C	6.64	1.60	1.52
1	dD	21	ASN	CA-C	-6.64	1.44	1.52
1	dZ	42	ALA	N-CA	-6.64	1.37	1.46
1	e4	84	HIS	CG-ND1	6.64	1.45	1.38
1	f2	54	THR	CA-CB	6.64	1.63	1.53
1	f9	189	LEU	C-O	-6.64	1.16	1.24
1	fF	11	VAL	CA-C	-6.64	1.45	1.52
1	4	210	THR	CA-C	-6.64	1.44	1.53
1	5	87	HIS	ND1-CE1	6.64	1.39	1.32
1	ga	3	VAL	C-O	-6.64	1.16	1.23
1	gp	60	GLY	C-N	6.64	1.43	1.33
1	gK	61	GLY	N-CA	6.64	1.52	1.45
1	i1	13	GLN	N-CA	6.64	1.54	1.45
1	ie	161	PHE	CA-CB	6.64	1.64	1.53
1	is	22	ALA	CA-C	-6.64	1.44	1.52
1	iz	188	THR	CA-C	-6.64	1.44	1.52
1	j6	110	THR	CB-OG1	-6.64	1.33	1.43
1	ji	152	ASP	CA-CB	6.64	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Y	109	SER	CA-C	6.64	1.60	1.52
1	l1	82	ARG	C-N	6.64	1.43	1.33
1	27	166	ASP	CA-C	6.64	1.61	1.52
1	2a	1	PRO	N-CA	6.64	1.57	1.47
1	37	120	HIS	ND1-CE1	6.64	1.39	1.32
1	7l	159	GLU	CA-C	6.64	1.60	1.52
1	84	107	THR	N-CA	6.64	1.54	1.46
1	10	113	GLU	N-CA	-6.64	1.38	1.46
1	cn	6	LEU	CA-C	-6.64	1.44	1.52
1	dH	91	ILE	C-N	6.64	1.41	1.32
1	ea	125	PRO	CA-C	6.64	1.59	1.53
1	fi	165	VAL	CA-CB	-6.64	1.46	1.54
1	fK	205	LEU	N-CA	-6.64	1.37	1.46
1	D	189	LEU	CA-C	6.64	1.61	1.52
1	gB	7	GLN	CA-C	6.64	1.60	1.52
1	ia	84	HIS	C-O	-6.64	1.19	1.25
1	lo	201	ILE	CA-CB	-6.64	1.46	1.54
1	2L	120	HIS	ND1-CE1	6.64	1.39	1.32
1	56	51	ASP	CA-C	-6.64	1.44	1.52
1	65	173	ARG	CA-CB	6.64	1.63	1.53
1	7B	22	ALA	CA-C	-6.64	1.44	1.52
1	7B	182	LYS	CA-CB	6.64	1.64	1.53
1	8Z	187	GLU	CA-CB	6.64	1.63	1.53
1	9m	113	GLU	N-CA	6.64	1.54	1.46
1	aE	100	ARG	CZ-NH2	-6.64	1.24	1.33
1	b8	226	HIS	CB-CG	6.64	1.59	1.50
1	bp	132	ARG	CD-NE	6.64	1.55	1.46
1	bs	154	ARG	NE-CZ	6.64	1.40	1.33
1	cM	124	ILE	N-CA	6.64	1.51	1.46
1	d9	159	GLU	CA-C	-6.64	1.45	1.52
1	1m	229	ARG	C-N	-6.64	1.26	1.33
1	eO	150	ILE	CA-CB	-6.64	1.46	1.54
1	1u	212	GLU	C-N	-6.64	1.24	1.34
1	x	148	THR	CA-CB	-6.64	1.42	1.53
1	gg	121	ASN	CA-C	6.64	1.59	1.52
1	gs	63	GLN	N-CA	-6.64	1.37	1.45
1	hi	44	SER	C-N	6.64	1.42	1.33
1	hy	124	ILE	N-CA	-6.64	1.41	1.46
1	hF	107	THR	CA-C	6.64	1.61	1.52
1	1S	31	ALA	N-CA	-6.64	1.38	1.46
1	1U	140	LYS	CA-C	6.64	1.61	1.52
1	kj	125	PRO	N-CD	-6.64	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lc	93	PRO	CA-C	6.64	1.60	1.52
1	2r	29	GLU	CA-CB	6.64	1.63	1.53
1	2I	120	HIS	CG-ND1	-6.64	1.30	1.38
1	4D	99	PRO	CA-C	6.64	1.61	1.52
1	4O	205	LEU	C-O	-6.64	1.16	1.24
1	6H	108	THR	N-CA	-6.64	1.38	1.46
1	83	69	LEU	CA-C	6.64	1.61	1.52
1	89	38	PRO	CA-C	-6.64	1.42	1.52
1	8a	71	GLU	CA-C	6.64	1.61	1.52
1	90	150	ILE	CA-C	-6.64	1.43	1.52
1	9P	44	SER	N-CA	6.64	1.53	1.46
1	14	124	ILE	N-CA	6.64	1.51	1.46
1	bW	53	ASN	N-CA	6.64	1.54	1.46
1	eu	80	TRP	N-CA	-6.64	1.38	1.46
1	f7	166	ASP	N-CA	6.64	1.54	1.46
1	fu	197	ASP	CA-C	-6.64	1.44	1.52
1	t	87	HIS	CB-CG	6.64	1.59	1.50
1	V	24	VAL	N-CA	6.64	1.54	1.46
1	gp	12	HIS	CA-C	-6.63	1.44	1.52
1	i7	70	LYS	CA-CB	6.63	1.63	1.53
1	iH	8	GLY	CA-C	6.63	1.61	1.51
1	iL	26	VAL	C-N	6.63	1.42	1.33
1	1S	165	VAL	C-N	6.63	1.42	1.33
1	jc	30	LYS	CA-CB	6.63	1.62	1.53
1	jv	34	PRO	C-N	6.63	1.42	1.33
1	1Y	103	ASP	C-N	6.63	1.42	1.33
1	kn	10	MET	CA-C	6.63	1.61	1.52
1	lh	113	GLU	CA-CB	6.63	1.63	1.53
1	29	181	VAL	CA-CB	-6.63	1.46	1.54
1	2M	226	HIS	CE1-NE2	-6.63	1.25	1.32
1	2V	84	HIS	C-N	6.63	1.41	1.33
1	3b	32	PHE	N-CA	6.63	1.54	1.46
1	3d	150	ILE	CA-CB	-6.63	1.47	1.54
1	3E	3	VAL	N-CA	6.63	1.54	1.46
1	3U	199	LYS	C-N	6.63	1.42	1.33
1	5s	168	PHE	CA-CB	6.63	1.63	1.53
1	5U	218	CYS	CA-CB	6.63	1.63	1.53
1	6d	140	LYS	C-N	6.63	1.42	1.33
1	6i	137	GLY	CA-C	-6.63	1.44	1.52
1	8C	93	PRO	C-N	6.63	1.42	1.33
1	8P	193	ASN	CA-CB	6.63	1.62	1.53
1	98	163	ASP	CA-C	6.63	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aH	26	VAL	CA-C	6.63	1.60	1.52
1	aQ	142	VAL	N-CA	6.63	1.54	1.46
1	b3	151	LEU	N-CA	-6.63	1.38	1.46
1	bn	42	ALA	N-CA	-6.63	1.37	1.46
1	bq	132	ARG	CD-NE	6.63	1.55	1.46
1	bJ	154	ARG	N-CA	-6.63	1.38	1.46
1	bL	90	PRO	CA-CB	6.63	1.63	1.53
1	d1	2	ILE	CA-C	-6.63	1.44	1.52
1	di	15	ILE	C-O	6.63	1.30	1.24
1	dD	48	THR	CA-CB	6.63	1.63	1.53
1	ex	30	LYS	CA-C	6.63	1.61	1.52
1	eJ	201	ILE	CA-C	6.63	1.61	1.52
1	fS	217	ALA	C-N	6.63	1.43	1.33
1	1A	54	THR	CA-C	-6.63	1.43	1.52
1	D	58	THR	CA-C	-6.63	1.44	1.52
1	J	15	ILE	CA-CB	-6.63	1.46	1.54
1	jw	161	PHE	C-N	6.63	1.42	1.33
1	jM	33	SER	CA-C	6.63	1.59	1.52
1	jS	209	ALA	N-CA	6.63	1.54	1.45
1	kW	161	PHE	CA-C	6.63	1.61	1.52
1	27	22	ALA	CA-C	6.63	1.61	1.52
1	ly	189	LEU	CA-CB	6.63	1.63	1.53
1	a5	225	GLY	N-CA	6.63	1.54	1.45
1	b7	132	ARG	CD-NE	6.63	1.55	1.46
1	bJ	177	ALA	CA-C	6.63	1.61	1.52
1	v	189	LEU	N-CA	-6.63	1.39	1.46
1	W	184	TRP	N-CA	6.63	1.54	1.46
1	g9	182	LYS	N-CA	6.63	1.54	1.46
1	hu	143	ARG	C-N	6.63	1.42	1.33
1	1K	127	GLY	N-CA	6.63	1.54	1.45
1	1O	49	PRO	CA-C	6.63	1.61	1.52
1	lf	127	GLY	CA-C	-6.63	1.43	1.51
1	2q	117	TRP	NE1-CE2	6.63	1.44	1.37
1	2U	189	LEU	CB-CG	6.63	1.66	1.53
1	3j	172	LEU	N-CA	-6.63	1.38	1.46
1	3A	226	HIS	N-CA	-6.63	1.37	1.46
1	4a	93	PRO	N-CA	-6.63	1.39	1.47
1	4h	173	ARG	CD-NE	6.63	1.55	1.46
1	5d	121	ASN	N-CA	-6.63	1.37	1.46
1	5t	153	ILE	CA-CB	-6.63	1.46	1.53
1	5H	140	LYS	N-CA	-6.63	1.38	1.46
1	5N	5	ASN	CA-C	6.63	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	69	44	SER	CA-C	-6.63	1.43	1.52
1	69	91	ILE	CA-CB	-6.63	1.46	1.54
1	6v	59	VAL	CA-CB	-6.63	1.45	1.53
1	7M	30	LYS	CA-CB	6.63	1.65	1.53
1	7N	97	ARG	CA-CB	6.63	1.63	1.53
1	8k	32	PHE	C-N	6.63	1.47	1.33
1	9g	226	HIS	ND1-CE1	6.63	1.39	1.32
1	9H	86	VAL	C-O	6.63	1.30	1.24
1	9H	184	TRP	N-CA	6.63	1.54	1.46
1	a6	20	LEU	CA-C	6.63	1.61	1.52
1	bA	67	GLN	CA-CB	6.63	1.63	1.53
1	bH	199	LYS	C-N	6.63	1.42	1.33
1	bI	5	ASN	CA-C	6.63	1.61	1.52
1	bL	147	PRO	N-CA	6.63	1.55	1.47
1	e8	6	LEU	CA-C	-6.63	1.44	1.52
1	1v	56	LEU	CA-CB	6.63	1.63	1.53
1	fd	186	THR	N-CA	6.63	1.54	1.46
1	fi	112	GLN	CA-CB	6.63	1.63	1.53
1	E	70	LYS	CA-CB	-6.63	1.43	1.53
1	5	185	MET	N-CA	6.63	1.54	1.46
1	gJ	181	VAL	CA-CB	-6.63	1.46	1.54
1	hV	157	PRO	N-CD	6.63	1.57	1.47
1	i1	3	VAL	CA-C	-6.63	1.44	1.52
1	jO	219	GLN	N-CA	6.63	1.54	1.46
1	kc	220	GLY	CA-C	-6.63	1.43	1.51
1	kK	81	ASP	CA-C	-6.63	1.44	1.52
1	3I	113	GLU	CA-CB	6.63	1.63	1.53
1	4g	118	MET	CA-C	-6.63	1.43	1.52
1	5o	96	MET	CA-C	6.63	1.61	1.52
1	5v	50	GLN	CA-C	-6.63	1.43	1.52
1	68	190	LEU	C-N	6.63	1.42	1.33
1	6a	104	ILE	CA-CB	-6.63	1.45	1.54
1	72	60	GLY	CA-C	-6.63	1.42	1.51
1	73	195	ASN	CA-CB	6.63	1.63	1.53
1	7j	25	LYS	C-O	-6.63	1.16	1.24
1	7F	74	ASN	CA-C	6.63	1.61	1.52
1	9b	174	ALA	CA-C	6.63	1.61	1.52
1	11	118	MET	CA-CB	6.63	1.64	1.53
1	b3	82	ARG	CA-CB	6.63	1.63	1.53
1	cT	59	VAL	N-CA	-6.63	1.38	1.46
1	cW	61	GLY	CA-C	6.63	1.59	1.52
1	ei	22	ALA	CA-CB	6.63	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	208	ALA	N-CA	-6.63	1.37	1.46
1	hp	40	PHE	N-CA	6.63	1.54	1.46
1	iQ	52	LEU	CA-CB	6.63	1.63	1.53
1	jo	137	GLY	N-CA	6.63	1.54	1.45
1	1X	43	LEU	C-N	6.63	1.42	1.33
1	kG	30	LYS	C-N	6.63	1.40	1.33
1	lo	155	GLN	N-CA	-6.63	1.38	1.46
1	2L	188	THR	CA-C	-6.63	1.48	1.52
1	2Q	160	PRO	C-N	-6.63	1.24	1.33
1	3P	181	VAL	C-O	-6.63	1.16	1.24
1	41	69	LEU	CA-CB	-6.63	1.42	1.53
1	4L	203	LYS	CA-CB	6.63	1.63	1.53
1	4S	38	PRO	CA-C	6.63	1.62	1.52
1	55	176	GLN	CA-CB	6.63	1.61	1.52
1	56	16	SER	C-N	6.63	1.42	1.34
1	5Y	13	GLN	CA-C	-6.63	1.44	1.52
1	7S	214	MET	CA-C	6.63	1.61	1.52
1	95	132	ARG	CA-C	6.63	1.61	1.52
1	9U	152	ASP	CA-CB	6.63	1.63	1.54
1	ce	2	ILE	C-N	6.63	1.42	1.33
1	1e	71	GLU	N-CA	6.63	1.54	1.46
1	dp	26	VAL	CA-CB	-6.63	1.46	1.54
1	dD	57	ASN	CA-CB	6.63	1.63	1.53
1	fO	121	ASN	CA-C	6.63	1.59	1.52
1	gb	15	ILE	N-CA	-6.63	1.39	1.46
1	1F	41	SER	C-N	6.63	1.42	1.33
1	h4	142	VAL	N-CA	-6.63	1.38	1.46
1	1V	204	ALA	CA-CB	6.63	1.63	1.53
1	ju	86	VAL	CA-CB	6.63	1.61	1.54
1	jw	100	ARG	CA-CB	6.63	1.64	1.53
1	ke	157	PRO	N-CA	-6.63	1.39	1.47
1	lg	18	ARG	CD-NE	6.63	1.55	1.46
1	lI	68	MET	CA-CB	6.63	1.63	1.53
1	lM	48	THR	C-N	6.63	1.42	1.33
1	2c	157	PRO	N-CA	-6.63	1.38	1.47
1	3h	228	ALA	C-N	6.63	1.43	1.33
1	3M	143	ARG	C-N	-6.63	1.25	1.33
1	49	19	THR	N-CA	6.63	1.54	1.46
1	4l	44	SER	CA-CB	6.63	1.62	1.53
1	4m	72	THR	CA-C	6.63	1.61	1.52
1	4o	204	ALA	N-CA	-6.63	1.37	1.46
1	4q	47	ALA	CA-C	-6.63	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5k	72	THR	C-N	6.63	1.42	1.33
1	5F	2	ILE	CA-C	-6.63	1.44	1.52
1	8q	32	PHE	CA-C	-6.63	1.44	1.52
1	8W	66	MET	C-N	6.63	1.42	1.33
1	9d	95	GLN	C-O	-6.63	1.16	1.23
1	9t	77	ALA	CA-CB	6.63	1.63	1.53
1	af	128	GLU	N-CA	6.63	1.54	1.46
1	ak	151	LEU	CA-C	-6.63	1.43	1.52
1	b4	38	PRO	C-N	6.63	1.43	1.34
1	bD	2	ILE	CB-CG1	6.63	1.66	1.53
1	ci	121	ASN	CA-C	6.63	1.60	1.52
1	cB	13	GLN	C-N	6.63	1.42	1.33
1	cD	227	LYS	N-CA	6.63	1.54	1.46
1	dh	228	ALA	CA-C	-6.63	1.44	1.52
1	ep	146	SER	CA-CB	6.63	1.63	1.53
1	fp	12	HIS	CG-ND1	6.63	1.45	1.38
1	fA	7	GLN	CA-C	6.63	1.61	1.52
1	fN	36	VAL	CA-C	6.63	1.60	1.52
1	fR	181	VAL	CA-C	6.63	1.61	1.52
1	g0	111	LEU	N-CA	6.63	1.54	1.46
1	2	193	ASN	C-N	6.63	1.42	1.33
1	8	19	THR	CA-C	-6.63	1.44	1.52
1	if	154	ARG	CA-CB	6.62	1.64	1.53
1	20	148	THR	N-CA	6.62	1.54	1.46
1	ky	12	HIS	CE1-NE2	6.62	1.39	1.32
1	kB	198	CYS	C-N	6.62	1.43	1.33
1	2F	162	ARG	CD-NE	6.62	1.55	1.46
1	2Q	15	ILE	C-N	6.62	1.42	1.33
1	5t	33	SER	C-N	-6.62	1.27	1.34
1	5x	18	ARG	CD-NE	6.62	1.55	1.46
1	69	134	ILE	C-N	6.62	1.42	1.33
1	6f	198	CYS	CA-C	6.62	1.61	1.52
1	6i	8	GLY	N-CA	6.62	1.52	1.45
1	85	55	MET	CA-CB	6.62	1.63	1.53
1	8z	132	ARG	CD-NE	6.62	1.55	1.46
1	9I	179	GLN	N-CA	6.62	1.54	1.46
1	9I	181	VAL	N-CA	-6.62	1.38	1.46
1	bV	143	ARG	CA-CB	6.62	1.63	1.53
1	cK	19	THR	CA-CB	6.62	1.63	1.53
1	f0	160	PRO	CA-CB	6.62	1.62	1.53
1	ff	173	ARG	N-CA	-6.62	1.38	1.46
1	ft	151	LEU	CA-C	6.62	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fC	212	GLU	C-N	6.62	1.42	1.33
1	1y	152	ASP	N-CA	6.62	1.54	1.46
1	fW	33	SER	CA-C	6.62	1.59	1.52
1	x	185	MET	CA-CB	6.62	1.63	1.53
1	x	226	HIS	CG-ND1	-6.62	1.30	1.38
1	gE	2	ILE	CA-C	-6.62	1.45	1.52
1	hG	151	LEU	CA-CB	6.62	1.63	1.53
1	i5	195	ASN	C-N	6.62	1.43	1.33
1	in	142	VAL	C-O	-6.62	1.16	1.24
1	ir	45	GLU	CA-CB	6.62	1.64	1.53
1	ko	100	ARG	CD-NE	6.62	1.55	1.46
1	3w	228	ALA	CA-C	6.62	1.60	1.52
1	4z	115	ILE	CA-CB	-6.62	1.45	1.54
1	4S	82	ARG	CA-CB	6.62	1.63	1.53
1	54	13	GLN	C-N	6.62	1.42	1.33
1	5m	121	ASN	CA-CB	6.62	1.61	1.53
1	5Y	40	PHE	C-N	6.62	1.42	1.33
1	6S	93	PRO	C-N	6.62	1.40	1.33
1	72	16	SER	CA-C	6.62	1.61	1.53
1	7y	230	VAL	CA-C	6.62	1.61	1.52
1	7Z	187	GLU	N-CA	-6.62	1.38	1.46
1	8w	101	GLY	N-CA	6.62	1.53	1.45
1	aK	62	HIS	CG-ND1	6.62	1.45	1.38
1	bf	226	HIS	ND1-CE1	6.62	1.39	1.32
1	bR	2	ILE	C-N	6.62	1.42	1.33
1	bT	117	TRP	N-CA	6.62	1.54	1.46
1	bX	108	THR	N-CA	6.62	1.54	1.46
1	c0	190	LEU	C-N	6.62	1.41	1.33
1	cn	120	HIS	ND1-CE1	6.62	1.39	1.32
1	cz	223	GLY	N-CA	6.62	1.53	1.44
1	du	162	ARG	CD-NE	6.62	1.55	1.46
1	dJ	94	GLY	CA-C	6.62	1.60	1.51
1	ee	52	LEU	CA-C	6.62	1.61	1.52
1	fb	161	PHE	CA-CB	6.62	1.64	1.53
1	fU	226	HIS	ND1-CE1	6.62	1.39	1.32
1	0	84	HIS	CA-CB	6.62	1.62	1.53
1	T	108	THR	N-CA	6.62	1.53	1.46
1	gO	70	LYS	CA-CB	6.62	1.63	1.53
1	gT	206	GLY	N-CA	6.62	1.53	1.44
1	ha	95	GLN	CA-C	6.62	1.60	1.52
1	hh	144	MET	C-O	-6.62	1.16	1.24
1	hq	62	HIS	CE1-NE2	6.62	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hq	215	MET	N-CA	6.62	1.54	1.46
1	i3	183	ASN	N-CA	-6.62	1.38	1.46
1	im	133	TRP	NE1-CE2	6.62	1.44	1.37
1	ix	119	THR	C-N	6.62	1.42	1.33
1	iI	212	GLU	C-N	6.62	1.42	1.33
1	iP	219	GLN	C-N	6.62	1.41	1.33
1	iQ	59	VAL	CA-CB	-6.62	1.45	1.53
1	j2	227	LYS	CA-CB	6.62	1.64	1.53
1	j8	109	SER	N-CA	6.62	1.54	1.46
1	1V	53	ASN	CA-CB	6.62	1.63	1.53
1	jr	117	TRP	CA-CB	6.62	1.63	1.53
1	kx	6	LEU	CA-C	-6.62	1.45	1.52
1	kE	71	GLU	C-N	6.62	1.42	1.33
1	kW	175	GLU	C-O	-6.62	1.15	1.24
1	lk	188	THR	C-N	6.62	1.42	1.34
1	lP	127	GLY	CA-C	-6.62	1.44	1.52
1	2s	117	TRP	NE1-CE2	-6.62	1.30	1.37
1	32	20	LEU	C-O	-6.62	1.15	1.24
1	5c	23	TRP	N-CA	-6.62	1.38	1.46
1	5n	66	MET	N-CA	-6.62	1.38	1.46
1	62	162	ARG	CA-CB	6.62	1.63	1.53
1	7e	173	ARG	CA-C	-6.62	1.44	1.52
1	7Q	120	HIS	CG-ND1	-6.62	1.30	1.38
1	7T	226	HIS	ND1-CE1	6.62	1.39	1.32
1	8o	92	GLU	CA-C	6.62	1.61	1.52
1	8x	42	ALA	CA-CB	6.62	1.63	1.53
1	8B	40	PHE	N-CA	-6.62	1.38	1.46
1	91	96	MET	CA-CB	6.62	1.63	1.53
1	9W	40	PHE	C-N	6.62	1.42	1.33
1	bl	26	VAL	CA-CB	6.62	1.61	1.54
1	bF	40	PHE	CA-CB	6.62	1.63	1.53
1	dt	88	ALA	CA-CB	6.62	1.64	1.53
1	e6	32	PHE	N-CA	-6.62	1.37	1.46
1	ev	61	GLY	C-N	6.62	1.43	1.33
1	f2	146	SER	N-CA	-6.62	1.41	1.46
1	fg	18	ARG	N-CA	-6.62	1.38	1.46
1	fL	30	LYS	C-N	6.62	1.41	1.33
1	P	3	VAL	CA-C	-6.62	1.45	1.52
1	gr	217	ALA	CA-C	6.62	1.61	1.52
1	gL	121	ASN	CA-C	6.62	1.60	1.52
1	jm	62	HIS	CE1-NE2	6.62	1.39	1.32
1	jv	143	ARG	N-CA	-6.62	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kK	119	THR	C-N	6.62	1.42	1.33
1	3C	84	HIS	ND1-CE1	6.62	1.39	1.32
1	5j	224	PRO	CA-CB	-6.62	1.44	1.53
1	5T	23	TRP	CA-C	6.62	1.61	1.52
1	6P	229	ARG	CD-NE	6.62	1.55	1.46
1	7a	210	THR	N-CA	6.62	1.54	1.45
1	c1	97	ARG	N-CA	-6.62	1.37	1.45
1	cn	152	ASP	CA-C	6.62	1.61	1.52
1	cq	161	PHE	CA-C	6.62	1.61	1.52
1	cL	4	GLN	C-N	6.62	1.42	1.33
1	eA	82	ARG	CA-C	6.62	1.61	1.52
1	F	205	LEU	CA-CB	6.62	1.64	1.53
1	Q	140	LYS	C-N	6.62	1.41	1.33
1	U	201	ILE	C-N	6.62	1.42	1.33
1	hj	40	PHE	CA-C	6.62	1.61	1.52
1	hx	48	THR	CA-CB	6.62	1.62	1.53
1	hR	17	PRO	N-CA	-6.62	1.38	1.47
1	iv	224	PRO	CA-CB	-6.62	1.44	1.53
1	iU	12	HIS	CD2-NE2	6.62	1.45	1.37
1	kA	109	SER	C-O	-6.62	1.16	1.23
1	kO	205	LEU	N-CA	-6.62	1.38	1.46
1	2S	155	GLN	C-N	6.62	1.43	1.33
1	3S	199	LYS	C-N	6.62	1.42	1.33
1	4s	167	ARG	CD-NE	6.62	1.55	1.46
1	4Q	192	GLN	N-CA	-6.62	1.37	1.46
1	4W	35	GLU	CA-CB	6.62	1.64	1.53
1	5a	190	LEU	C-N	6.62	1.42	1.33
1	5g	193	ASN	CA-CB	6.62	1.64	1.53
1	63	221	VAL	CA-C	6.62	1.60	1.52
1	6B	57	ASN	N-CA	-6.62	1.37	1.46
1	6Y	193	ASN	CA-CB	6.62	1.63	1.53
1	70	188	THR	N-CA	6.62	1.54	1.46
1	8a	141	ILE	CA-CB	-6.62	1.46	1.54
1	8k	154	ARG	CZ-NH1	-6.62	1.23	1.32
1	8P	19	THR	CA-CB	6.62	1.63	1.53
1	9b	9	GLN	N-CA	6.62	1.54	1.46
1	9B	82	ARG	C-N	6.62	1.42	1.33
1	9T	114	GLN	C-N	6.62	1.42	1.33
1	am	154	ARG	NE-CZ	-6.62	1.25	1.33
1	aw	38	PRO	CA-C	6.62	1.61	1.52
1	aJ	216	THR	N-CA	6.62	1.53	1.46
1	aW	62	HIS	CE1-NE2	6.62	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aX	175	GLU	N-CA	-6.62	1.38	1.46
1	dl	166	ASP	C-O	-6.62	1.16	1.24
1	dG	51	ASP	CA-CB	6.62	1.63	1.53
1	1o	179	GLN	CA-CB	6.62	1.63	1.53
1	e2	139	ASN	C-N	6.62	1.42	1.33
1	em	160	PRO	C-O	-6.62	1.15	1.24
1	f9	146	SER	CA-CB	6.62	1.65	1.53
1	ff	91	ILE	CA-C	6.62	1.60	1.52
1	V	6	LEU	C-N	6.62	1.42	1.33
1	1M	166	ASP	N-CA	6.62	1.54	1.46
1	iD	124	ILE	CA-C	6.62	1.58	1.53
1	1S	12	HIS	ND1-CE1	6.62	1.39	1.32
1	jJ	194	ALA	C-N	6.62	1.44	1.33
1	ky	161	PHE	N-CA	6.62	1.54	1.46
1	2T	129	ILE	CA-CB	6.62	1.62	1.54
1	3u	115	ILE	CA-C	6.62	1.61	1.52
1	4N	108	THR	N-CA	6.62	1.54	1.46
1	6t	130	TYR	C-N	6.62	1.42	1.33
1	8E	65	ALA	CA-C	-6.62	1.44	1.52
1	e9	226	HIS	CG-ND1	-6.62	1.30	1.38
1	eR	15	ILE	CA-C	6.62	1.60	1.52
1	fd	116	GLY	CA-C	6.62	1.59	1.52
1	fW	87	HIS	ND1-CE1	6.62	1.39	1.32
1	h7	52	LEU	N-CA	6.62	1.54	1.46
1	hz	23	TRP	NE1-CE2	-6.62	1.30	1.37
1	i6	37	ILE	CA-C	6.62	1.58	1.52
1	jx	161	PHE	CA-C	6.62	1.61	1.52
1	kl	147	PRO	N-CA	-6.62	1.38	1.47
1	kQ	153	ILE	CA-CB	-6.62	1.45	1.54
1	l6	143	ARG	CD-NE	6.62	1.55	1.46
1	lv	35	GLU	CA-CB	6.62	1.65	1.53
1	2J	203	LYS	CA-C	6.62	1.61	1.52
1	4c	112	GLN	CA-C	6.62	1.61	1.52
1	4t	18	ARG	CD-NE	6.62	1.55	1.46
1	5s	175	GLU	C-N	6.62	1.43	1.33
1	5s	221	VAL	N-CA	6.62	1.54	1.46
1	5H	128	GLU	C-N	6.62	1.42	1.33
1	5Q	70	LYS	N-CA	-6.62	1.38	1.46
1	5Z	137	GLY	C-N	6.62	1.42	1.33
1	6F	72	THR	N-CA	6.62	1.54	1.46
1	7C	11	VAL	CA-CB	-6.62	1.46	1.54
1	8D	162	ARG	CD-NE	6.62	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8G	101	GLY	N-CA	6.62	1.53	1.45
1	9F	203	LYS	CA-CB	6.62	1.64	1.53
1	aD	86	VAL	CA-CB	-6.62	1.46	1.54
1	bV	144	MET	CA-C	6.62	1.61	1.52
1	cp	153	ILE	CA-C	6.62	1.59	1.52
1	cP	143	ARG	CD-NE	6.62	1.55	1.46
1	cY	131	LYS	CA-CB	6.62	1.63	1.53
1	dh	40	PHE	N-CA	-6.62	1.38	1.46
1	dn	132	ARG	CA-C	-6.62	1.44	1.52
1	dL	37	ILE	CA-C	6.62	1.58	1.52
1	e4	171	THR	CA-C	6.62	1.61	1.52
1	eD	225	GLY	CA-C	-6.62	1.44	1.52
1	g9	127	GLY	CA-C	-6.61	1.44	1.52
1	gv	145	TYR	CA-CB	6.61	1.62	1.53
1	1E	48	THR	CA-C	-6.61	1.44	1.52
1	gZ	132	ARG	CA-CB	6.61	1.63	1.53
1	hs	12	HIS	ND1-CE1	6.61	1.39	1.32
1	i2	182	LYS	CA-C	6.61	1.61	1.52
1	ib	60	GLY	N-CA	6.61	1.54	1.45
1	il	181	VAL	C-N	6.61	1.42	1.33
1	iJ	20	LEU	CA-C	6.61	1.61	1.52
1	iP	135	ILE	C-N	6.61	1.43	1.33
1	jl	93	PRO	N-CA	6.61	1.54	1.47
1	kh	166	ASP	CA-C	6.61	1.61	1.52
1	kO	219	GLN	CA-C	-6.61	1.44	1.52
1	2I	39	MET	N-CA	-6.61	1.38	1.46
1	2S	84	HIS	CG-ND1	6.61	1.45	1.38
1	30	52	LEU	C-N	6.61	1.42	1.33
1	5k	80	TRP	NE1-CE2	-6.61	1.30	1.37
1	5N	15	ILE	CA-C	6.61	1.60	1.52
1	6M	15	ILE	CA-C	6.61	1.60	1.52
1	6M	191	VAL	CA-CB	-6.61	1.46	1.54
1	7k	59	VAL	CA-C	-6.61	1.44	1.52
1	7C	68	MET	CA-C	6.61	1.61	1.52
1	8b	100	ARG	CD-NE	6.61	1.55	1.46
1	8A	176	GLN	C-N	6.61	1.43	1.33
1	8P	67	GLN	N-CA	-6.61	1.38	1.46
1	94	163	ASP	CA-C	6.61	1.61	1.52
1	aG	111	LEU	CA-CB	6.61	1.63	1.53
1	aN	170	LYS	CA-C	-6.61	1.44	1.52
1	aP	4	GLN	CA-CB	6.61	1.64	1.53
1	aW	161	PHE	CA-CB	6.61	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cu	93	PRO	CA-C	-6.61	1.44	1.52
1	cz	158	LYS	CA-CB	6.61	1.64	1.53
1	cK	76	GLU	CA-C	6.61	1.61	1.52
1	cR	116	GLY	C-N	6.61	1.42	1.34
1	cT	128	GLU	N-CA	6.61	1.54	1.46
1	da	173	ARG	CD-NE	6.61	1.55	1.46
1	1j	13	GLN	CA-CB	-6.61	1.44	1.53
1	do	58	THR	C-N	6.61	1.43	1.33
1	dG	145	TYR	CA-C	6.61	1.61	1.52
1	eA	206	GLY	CA-C	6.61	1.61	1.51
1	fe	168	PHE	CA-CB	6.61	1.63	1.53
1	fi	61	GLY	N-CA	-6.61	1.37	1.45
1	g0	164	TYR	CA-CB	6.61	1.63	1.53
1	z	28	GLU	CA-C	6.61	1.61	1.52
1	X	217	ALA	C-N	6.61	1.43	1.33
1	gg	82	ARG	CD-NE	6.61	1.55	1.46
1	ha	183	ASN	C-N	6.61	1.42	1.33
1	hQ	81	ASP	CA-C	6.61	1.61	1.52
1	id	126	VAL	CA-C	6.61	1.61	1.52
1	iS	209	ALA	N-CA	-6.61	1.37	1.45
1	jl	165	VAL	C-N	6.61	1.42	1.33
1	kd	61	GLY	CA-C	6.61	1.59	1.52
1	lg	121	ASN	CA-C	6.61	1.58	1.52
1	lB	154	ARG	CA-CB	6.61	1.64	1.53
1	5j	216	THR	CA-C	-6.61	1.44	1.52
1	6K	52	LEU	CA-CB	6.61	1.63	1.53
1	8A	36	VAL	CA-CB	-6.61	1.46	1.54
1	ah	77	ALA	C-O	-6.61	1.15	1.24
1	be	168	PHE	CA-CB	6.61	1.63	1.53
1	bR	75	GLU	C-N	6.61	1.42	1.33
1	dK	33	SER	C-N	6.61	1.40	1.34
1	fT	21	ASN	CA-CB	6.61	1.64	1.53
1	a	99	PRO	N-CD	-6.61	1.38	1.47
1	gt	41	SER	C-N	6.61	1.42	1.33
1	hy	166	ASP	C-N	6.61	1.42	1.33
1	hI	79	GLU	CA-CB	6.61	1.63	1.53
1	hV	34	PRO	N-CA	-6.61	1.39	1.47
1	hY	188	THR	N-CA	6.61	1.54	1.46
1	i2	160	PRO	C-N	6.61	1.43	1.33
1	iG	199	LYS	N-CA	-6.61	1.38	1.46
1	iV	88	ALA	CA-C	-6.61	1.44	1.52
1	jB	109	SER	CA-CB	6.61	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jZ	9	GLN	N-CA	-6.61	1.37	1.45
1	kb	15	ILE	CA-CB	-6.61	1.47	1.54
1	kA	120	HIS	ND1-CE1	6.61	1.39	1.32
1	lc	43	LEU	C-N	6.61	1.42	1.33
1	lt	212	GLU	CA-CB	6.61	1.63	1.53
1	lR	119	THR	N-CA	6.61	1.54	1.46
1	2F	50	GLN	CA-C	-6.61	1.43	1.52
1	3b	1	PRO	N-CD	6.61	1.57	1.47
1	5t	80	TRP	NE1-CE2	-6.61	1.30	1.37
1	5E	155	GLN	CA-CB	6.61	1.65	1.53
1	64	28	GLU	N-CA	-6.61	1.38	1.46
1	6u	190	LEU	N-CA	-6.61	1.38	1.46
1	7h	151	LEU	N-CA	-6.61	1.37	1.46
1	8o	69	LEU	CA-C	6.61	1.61	1.52
1	8A	50	GLN	CA-C	6.61	1.61	1.52
1	9e	91	ILE	CA-C	6.61	1.60	1.52
1	a2	206	GLY	CA-C	-6.61	1.42	1.51
1	av	52	LEU	C-N	6.61	1.42	1.33
1	aC	109	SER	CA-C	6.61	1.60	1.52
1	aR	143	ARG	CD-NE	6.61	1.55	1.46
1	b4	161	PHE	CA-CB	6.61	1.64	1.53
1	da	105	ALA	CA-CB	6.61	1.64	1.53
1	dq	67	GLN	CA-C	-6.61	1.44	1.52
1	du	180	GLU	C-N	6.61	1.42	1.33
1	eM	132	ARG	N-CA	6.61	1.54	1.46
1	eN	5	ASN	CA-CB	6.61	1.65	1.53
1	eP	168	PHE	CA-CB	6.61	1.63	1.53
1	fD	20	LEU	C-N	-6.61	1.25	1.33
1	a	28	GLU	CA-C	6.61	1.61	1.52
1	1D	124	ILE	CA-CB	6.61	1.60	1.54
1	kP	217	ALA	CA-C	6.61	1.62	1.53
1	3i	173	ARG	CD-NE	6.61	1.55	1.46
1	7s	87	HIS	CD2-NE2	6.61	1.45	1.37
1	8M	163	ASP	CA-CB	6.61	1.63	1.53
1	8U	224	PRO	CA-CB	6.61	1.63	1.53
1	9b	8	GLY	CA-C	-6.61	1.43	1.52
1	dR	11	VAL	CA-C	-6.61	1.44	1.52
1	e7	67	GLN	CA-C	6.61	1.61	1.52
1	f	24	VAL	N-CA	6.61	1.54	1.46
1	gf	31	ALA	N-CA	-6.61	1.38	1.46
1	gq	50	GLN	CA-C	-6.61	1.44	1.52
1	gu	102	SER	N-CA	-6.61	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gM	28	GLU	C-N	6.61	1.43	1.33
1	h5	9	GLN	N-CA	6.61	1.54	1.46
1	hg	189	LEU	CA-C	6.61	1.61	1.52
1	ht	199	LYS	CA-CB	6.61	1.63	1.53
1	i4	26	VAL	CA-C	6.61	1.60	1.52
1	ic	21	ASN	CA-CB	6.61	1.63	1.53
1	1O	91	ILE	N-CA	-6.61	1.38	1.46
1	jq	84	HIS	N-CA	-6.61	1.40	1.46
1	js	224	PRO	N-CA	6.61	1.54	1.47
1	jL	79	GLU	C-N	6.61	1.41	1.33
1	l0	162	ARG	CD-NE	6.61	1.55	1.46
1	lN	182	LYS	C-N	6.61	1.42	1.33
1	3C	32	PHE	CA-C	6.61	1.61	1.52
1	4X	161	PHE	CA-C	6.61	1.61	1.52
1	4Y	140	LYS	C-N	6.61	1.42	1.33
1	6p	124	ILE	CA-C	-6.61	1.47	1.53
1	92	136	LEU	C-N	6.61	1.41	1.34
1	9H	152	ASP	CA-CB	6.61	1.63	1.53
1	a8	226	HIS	CG-ND1	6.61	1.45	1.38
1	al	186	THR	C-N	6.61	1.42	1.33
1	aM	181	VAL	N-CA	6.61	1.54	1.46
1	c4	172	LEU	C-N	6.61	1.43	1.33
1	c8	181	VAL	C-N	6.61	1.42	1.33
1	cn	4	GLN	CA-C	6.61	1.61	1.52
1	cJ	56	LEU	CA-C	-6.61	1.44	1.52
1	ek	205	LEU	CA-C	6.61	1.61	1.52
1	eL	92	GLU	C-N	6.61	1.41	1.33
1	eV	50	GLN	CA-CB	6.61	1.64	1.53
1	fo	173	ARG	CD-NE	6.61	1.55	1.46
1	fu	68	MET	C-N	6.61	1.42	1.33
1	fQ	103	ASP	N-CA	-6.61	1.38	1.46
1	o	172	LEU	CA-CB	-6.61	1.42	1.53
1	x	48	THR	C-N	-6.61	1.25	1.33
1	gq	204	ALA	C-N	6.61	1.42	1.33
1	h6	24	VAL	CA-CB	6.61	1.62	1.54
1	h8	112	GLN	CA-C	-6.61	1.44	1.52
1	hl	97	ARG	CA-CB	6.61	1.64	1.53
1	hN	153	ILE	CA-CB	-6.61	1.47	1.54
1	i0	36	VAL	C-O	-6.61	1.16	1.24
1	ip	22	ALA	CA-C	-6.61	1.44	1.52
1	iD	184	TRP	CA-CB	6.61	1.63	1.53
1	jk	197	ASP	C-N	6.61	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jr	87	HIS	ND1-CE1	6.61	1.39	1.32
1	jE	154	ARG	CD-NE	6.61	1.55	1.46
1	jZ	165	VAL	CA-C	-6.61	1.44	1.52
1	lg	155	GLN	CA-CB	6.61	1.62	1.53
1	lE	212	GLU	N-CA	-6.61	1.37	1.46
1	2b	23	TRP	CA-C	6.61	1.61	1.52
1	2r	61	GLY	N-CA	6.61	1.53	1.45
1	3g	49	PRO	N-CD	-6.61	1.38	1.47
1	3D	95	GLN	C-N	6.61	1.42	1.33
1	4c	181	VAL	CA-C	6.61	1.61	1.52
1	4z	84	HIS	CA-C	6.61	1.60	1.52
1	4E	226	HIS	ND1-CE1	6.61	1.39	1.32
1	5g	155	GLN	CA-CB	-6.61	1.43	1.53
1	5m	191	VAL	CA-C	6.61	1.61	1.52
1	5C	62	HIS	CE1-NE2	6.61	1.39	1.32
1	6a	43	LEU	CA-CB	6.61	1.64	1.53
1	6K	25	LYS	CA-CB	6.61	1.64	1.53
1	6Q	209	ALA	N-CA	-6.61	1.38	1.46
1	7f	86	VAL	CA-CB	-6.61	1.46	1.54
1	7q	94	GLY	C-N	6.61	1.42	1.33
1	7J	101	GLY	CA-C	-6.61	1.44	1.52
1	7R	141	ILE	CA-CB	-6.61	1.45	1.54
1	81	229	ARG	C-N	6.61	1.41	1.33
1	96	79	GLU	C-N	6.61	1.42	1.33
1	9l	12	HIS	CA-CB	6.61	1.63	1.53
1	9p	193	ASN	CA-C	6.61	1.61	1.52
1	9t	102	SER	N-CA	6.61	1.54	1.46
1	9A	163	ASP	C-N	6.61	1.42	1.33
1	aE	33	SER	CA-CB	6.61	1.63	1.53
1	aY	37	ILE	CA-CB	-6.61	1.50	1.54
1	cu	173	ARG	CD-NE	6.61	1.55	1.46
1	cK	82	ARG	CA-CB	6.61	1.63	1.53
1	dv	211	LEU	N-CA	-6.61	1.38	1.46
1	eq	172	LEU	CA-CB	6.61	1.63	1.53
1	g	217	ALA	C-N	6.61	1.42	1.33
1	k	68	MET	N-CA	6.61	1.54	1.46
1	3	185	MET	CA-C	6.61	1.61	1.52
1	ix	30	LYS	C-N	6.60	1.43	1.33
1	k9	45	GLU	CA-C	-6.60	1.44	1.52
1	l1	115	ILE	CA-C	-6.60	1.44	1.52
1	3D	155	GLN	N-CA	6.60	1.54	1.46
1	4G	114	GLN	C-O	-6.60	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	65	166	ASP	CA-CB	6.60	1.63	1.53
1	7N	4	GLN	CA-CB	6.60	1.63	1.53
1	9b	224	PRO	C-N	6.60	1.42	1.33
1	ay	133	TRP	N-CA	-6.60	1.38	1.46
1	cs	100	ARG	CA-C	-6.60	1.44	1.53
1	di	23	TRP	CA-C	6.60	1.61	1.52
1	W	191	VAL	C-O	6.60	1.31	1.24
1	1C	70	LYS	CA-C	-6.60	1.44	1.52
1	he	169	TYR	N-CA	6.60	1.54	1.46
1	hh	67	GLN	CA-CB	6.60	1.63	1.53
1	j5	170	LYS	CA-C	6.60	1.61	1.52
1	jb	72	THR	C-N	6.60	1.42	1.33
1	jW	162	ARG	CA-CB	6.60	1.63	1.53
1	ll	121	ASN	CA-C	6.60	1.58	1.52
1	2u	211	LEU	CA-CB	6.60	1.63	1.53
1	2w	103	ASP	N-CA	-6.60	1.38	1.46
1	2K	139	ASN	C-O	-6.60	1.16	1.24
1	2L	175	GLU	N-CA	6.60	1.54	1.46
1	2O	175	GLU	CA-C	6.60	1.61	1.52
1	36	57	ASN	CA-CB	6.60	1.62	1.53
1	4v	38	PRO	N-CA	-6.60	1.39	1.47
1	4Z	197	ASP	CA-C	-6.60	1.44	1.52
1	51	6	LEU	CA-C	6.60	1.59	1.53
1	64	89	GLY	C-N	6.60	1.41	1.33
1	66	40	PHE	N-CA	-6.60	1.38	1.46
1	6W	96	MET	CA-C	6.60	1.61	1.52
1	7b	195	ASN	CA-CB	6.60	1.64	1.53
1	7u	117	TRP	CA-CB	6.60	1.63	1.53
1	7D	91	ILE	CA-CB	-6.60	1.47	1.54
1	7H	183	ASN	C-N	6.60	1.42	1.33
1	8M	91	ILE	CA-C	-6.60	1.43	1.52
1	8Q	214	MET	N-CA	6.60	1.54	1.46
1	Y	174	ALA	N-CA	-6.60	1.37	1.46
1	av	161	PHE	CA-C	-6.60	1.43	1.52
1	b0	118	MET	CA-C	6.60	1.61	1.52
1	bd	59	VAL	N-CA	6.60	1.53	1.46
1	bB	191	VAL	CA-C	6.60	1.60	1.52
1	bM	124	ILE	CA-C	-6.60	1.47	1.53
1	bP	161	PHE	C-N	6.60	1.42	1.33
1	bQ	26	VAL	C-N	6.60	1.42	1.33
1	c5	151	LEU	CA-C	6.60	1.61	1.52
1	cp	103	ASP	CA-C	6.60	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	da	154	ARG	CA-C	-6.60	1.44	1.52
1	fY	87	HIS	CA-C	-6.60	1.44	1.52
1	g3	56	LEU	CA-CB	6.60	1.63	1.53
1	g3	99	PRO	N-CD	-6.60	1.38	1.47
1	k0	24	VAL	N-CA	6.60	1.54	1.46
1	kl	137	GLY	CA-C	6.60	1.59	1.52
1	2y	226	HIS	ND1-CE1	6.60	1.39	1.32
1	78	2	ILE	CA-C	6.60	1.60	1.52
1	9I	162	ARG	CD-NE	6.60	1.55	1.46
1	bk	23	TRP	CA-CB	6.60	1.63	1.53
1	cl	121	ASN	CA-C	6.60	1.59	1.52
1	dR	59	VAL	CA-CB	-6.60	1.45	1.53
1	e8	63	GLN	N-CA	6.60	1.54	1.46
1	g7	188	THR	N-CA	6.60	1.53	1.46
1	n	152	ASP	N-CA	-6.60	1.37	1.46
1	gQ	18	ARG	C-O	-6.60	1.16	1.24
1	h4	129	ILE	CA-CB	6.60	1.62	1.54
1	hi	144	MET	N-CA	-6.60	1.38	1.46
1	iI	226	HIS	N-CA	6.60	1.54	1.46
1	js	201	ILE	N-CA	-6.60	1.38	1.46
1	jP	82	ARG	CZ-NH2	-6.60	1.24	1.33
1	kg	101	GLY	CA-C	6.60	1.59	1.52
1	kI	87	HIS	ND1-CE1	6.60	1.39	1.32
1	lc	12	HIS	CG-CD2	-6.60	1.28	1.35
1	li	164	TYR	CA-C	6.60	1.61	1.52
1	lv	18	ARG	CD-NE	6.60	1.55	1.46
1	2M	65	ALA	CA-C	6.60	1.61	1.52
1	33	85	PRO	CA-CB	6.60	1.63	1.53
1	3c	64	ALA	N-CA	-6.60	1.38	1.46
1	4f	164	TYR	CZ-OH	6.60	1.51	1.38
1	5t	88	ALA	CA-C	6.60	1.61	1.52
1	5I	112	GLN	C-O	-6.60	1.16	1.24
1	5Y	126	VAL	C-N	6.60	1.41	1.33
1	6r	47	ALA	N-CA	-6.60	1.37	1.46
1	6y	143	ARG	CD-NE	6.60	1.55	1.46
1	6R	73	ILE	CA-CB	6.60	1.62	1.54
1	6R	228	ALA	C-O	-6.60	1.15	1.23
1	7Y	57	ASN	CA-CB	6.60	1.64	1.53
1	8j	28	GLU	CA-CB	6.60	1.63	1.53
1	8k	149	SER	CA-C	-6.60	1.44	1.52
1	8l	131	LYS	C-O	6.60	1.31	1.24
1	96	50	GLN	CA-C	-6.60	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a3	176	GLN	CA-C	-6.60	1.44	1.52
1	aC	77	ALA	CA-C	-6.60	1.43	1.52
1	13	21	ASN	CA-CB	6.60	1.63	1.53
1	aL	72	THR	CA-C	6.60	1.61	1.52
1	aZ	152	ASP	C-N	6.60	1.40	1.33
1	1b	141	ILE	CA-C	-6.60	1.44	1.52
1	bY	92	GLU	CA-C	6.60	1.60	1.53
1	cz	151	LEU	C-O	-6.60	1.16	1.24
1	cL	37	ILE	CA-C	6.60	1.58	1.52
1	d4	47	ALA	N-CA	-6.60	1.38	1.46
1	er	104	ILE	C-N	6.60	1.43	1.33
1	eF	113	GLU	C-N	6.60	1.42	1.33
1	fe	101	GLY	CA-C	-6.60	1.44	1.52
1	gF	82	ARG	CA-C	-6.60	1.44	1.52
1	gO	32	PHE	C-N	6.60	1.41	1.32
1	h9	21	ASN	CA-CB	6.60	1.63	1.53
1	ij	161	PHE	CA-CB	6.60	1.61	1.52
1	jb	85	PRO	CA-C	6.60	1.60	1.52
1	jk	230	VAL	CA-CB	-6.60	1.46	1.54
1	jF	87	HIS	ND1-CE1	6.60	1.39	1.32
1	kp	108	THR	CA-C	-6.60	1.44	1.52
1	le	160	PRO	CA-C	-6.60	1.43	1.52
1	lP	73	ILE	C-N	6.60	1.42	1.33
1	2d	27	VAL	CA-C	6.60	1.62	1.52
1	2l	181	VAL	C-N	6.60	1.42	1.33
1	2Y	174	ALA	CA-C	6.60	1.61	1.52
1	3e	96	MET	CA-C	6.60	1.61	1.52
1	3A	111	LEU	N-CA	-6.60	1.37	1.46
1	52	169	TYR	CA-C	-6.60	1.43	1.52
1	57	103	ASP	CA-C	6.60	1.61	1.52
1	5L	53	ASN	CA-CB	6.60	1.63	1.53
1	6O	53	ASN	CA-C	6.60	1.61	1.52
1	7T	191	VAL	CA-C	-6.60	1.44	1.52
1	8x	179	GLN	C-O	-6.60	1.16	1.24
1	a3	12	HIS	ND1-CE1	6.60	1.39	1.32
1	ao	111	LEU	N-CA	6.60	1.54	1.46
1	14	80	TRP	N-CA	6.60	1.54	1.46
1	aV	20	LEU	CA-CB	6.60	1.63	1.53
1	bg	221	VAL	CA-C	-6.60	1.44	1.52
1	bi	60	GLY	CA-C	6.60	1.61	1.51
1	br	211	LEU	CA-C	6.60	1.61	1.52
1	bP	205	LEU	N-CA	6.60	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bV	4	GLN	CA-C	-6.60	1.44	1.52
1	d1	178	SER	N-CA	6.60	1.54	1.46
1	d3	55	MET	N-CA	-6.60	1.38	1.46
1	dq	120	HIS	CG-ND1	6.60	1.45	1.38
1	1m	84	HIS	C-N	6.60	1.42	1.33
1	dQ	129	ILE	N-CA	6.60	1.54	1.46
1	em	220	GLY	C-N	6.60	1.41	1.33
1	eM	87	HIS	CA-CB	6.60	1.62	1.53
1	fk	33	SER	N-CA	6.60	1.52	1.46
1	1x	160	PRO	CA-CB	6.60	1.63	1.53
1	m	104	ILE	CA-CB	6.60	1.63	1.54
1	u	188	THR	N-CA	6.60	1.54	1.46
1	T	30	LYS	N-CA	6.60	1.54	1.46
1	gd	141	ILE	C-N	6.60	1.41	1.34
1	gn	112	GLN	CA-CB	6.60	1.63	1.53
1	hJ	220	GLY	N-CA	6.60	1.54	1.45
1	iQ	210	THR	CA-C	6.60	1.62	1.53
1	jb	17	PRO	CA-C	-6.60	1.42	1.52
1	kl	162	ARG	CA-CB	6.60	1.64	1.53
1	26	111	LEU	N-CA	6.60	1.54	1.46
1	lq	54	THR	N-CA	6.60	1.54	1.46
1	lx	84	HIS	ND1-CE1	6.60	1.39	1.32
1	35	163	ASP	N-CA	6.60	1.54	1.46
1	3C	142	VAL	CA-CB	-6.60	1.46	1.54
1	84	184	TRP	N-CA	6.60	1.54	1.46
1	8B	184	TRP	C-N	6.60	1.42	1.33
1	9k	142	VAL	CA-CB	6.60	1.62	1.54
1	18	120	HIS	C-N	6.60	1.39	1.33
1	cM	109	SER	N-CA	6.60	1.53	1.45
1	dY	158	LYS	C-N	6.60	1.42	1.33
1	eu	92	GLU	CA-CB	6.60	1.63	1.53
1	fn	100	ARG	CA-C	-6.60	1.44	1.52
1	1y	213	GLU	CA-C	-6.60	1.44	1.52
1	v	87	HIS	C-N	6.60	1.42	1.33
1	gi	80	TRP	NE1-CE2	-6.59	1.30	1.37
1	1H	218	CYS	CA-CB	6.59	1.64	1.53
1	hn	46	GLY	CA-C	-6.59	1.41	1.51
1	1L	22	ALA	C-N	6.59	1.42	1.33
1	iL	167	ARG	CA-C	6.59	1.61	1.52
1	k5	84	HIS	ND1-CE1	6.59	1.39	1.32
1	k5	180	GLU	N-CA	-6.59	1.38	1.46
1	kx	157	PRO	CA-C	6.59	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lj	163	ASP	CA-C	6.59	1.61	1.52
1	lQ	31	ALA	CA-C	-6.59	1.44	1.52
1	4J	122	PRO	N-CD	-6.59	1.38	1.47
1	5h	187	GLU	CA-C	-6.59	1.44	1.52
1	7N	197	ASP	CA-C	6.59	1.61	1.52
1	8j	50	GLN	N-CA	6.59	1.54	1.46
1	8t	23	TRP	CD2-CE3	6.59	1.50	1.40
1	8E	214	MET	CA-C	-6.59	1.44	1.52
1	99	113	GLU	CA-CB	6.59	1.63	1.53
1	9L	78	ALA	N-CA	6.59	1.54	1.46
1	dJ	92	GLU	CA-C	6.59	1.61	1.53
1	eB	145	TYR	CA-CB	6.59	1.61	1.52
1	eZ	78	ALA	N-CA	-6.59	1.38	1.46
1	f9	225	GLY	N-CA	6.59	1.51	1.44
1	fx	227	LYS	C-N	6.59	1.42	1.33
1	fM	111	LEU	CA-CB	6.59	1.64	1.53
1	fV	55	MET	CA-C	-6.59	1.44	1.52
1	gz	143	ARG	CA-C	-6.59	1.44	1.52
1	gL	6	LEU	N-CA	-6.59	1.37	1.46
1	ha	227	LYS	CA-C	-6.59	1.44	1.52
1	kU	114	GLN	N-CA	6.59	1.54	1.46
1	2G	140	LYS	C-N	6.59	1.42	1.33
1	50	224	PRO	CA-C	-6.59	1.42	1.52
1	5z	62	HIS	CE1-NE2	6.59	1.39	1.32
1	5B	75	GLU	N-CA	-6.59	1.38	1.46
1	5O	43	LEU	C-N	6.59	1.43	1.33
1	8e	70	LYS	CA-C	-6.59	1.44	1.52
1	e1	97	ARG	N-CA	6.59	1.54	1.46
1	ea	59	VAL	CA-CB	6.59	1.61	1.54
1	eI	52	LEU	C-N	6.59	1.42	1.33
1	fb	32	PHE	C-N	6.59	1.41	1.33
1	gl	15	ILE	N-CA	6.59	1.54	1.46
1	gB	103	ASP	CA-C	6.59	1.61	1.52
1	gJ	185	MET	CA-CB	6.59	1.64	1.53
1	1O	136	LEU	N-CA	-6.59	1.38	1.46
1	iL	62	HIS	CD2-NE2	-6.59	1.30	1.37
1	kE	167	ARG	NE-CZ	6.59	1.40	1.33
1	lh	123	PRO	CA-CB	6.59	1.62	1.53
1	lh	178	SER	CA-CB	6.59	1.63	1.53
1	2y	230	VAL	CA-C	6.59	1.60	1.52
1	3f	65	ALA	C-N	6.59	1.42	1.33
1	3v	143	ARG	N-CA	6.59	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3P	48	THR	C-N	-6.59	1.25	1.34
1	3P	135	ILE	N-CA	6.59	1.54	1.46
1	45	91	ILE	CA-C	6.59	1.59	1.52
1	4C	226	HIS	ND1-CE1	6.59	1.39	1.32
1	4H	132	ARG	CD-NE	6.59	1.55	1.46
1	4O	81	ASP	N-CA	6.59	1.54	1.46
1	4R	69	LEU	C-O	6.59	1.31	1.24
1	6v	106	GLY	C-N	6.59	1.43	1.33
1	6U	168	PHE	CA-CB	6.59	1.63	1.53
1	86	141	ILE	C-N	6.59	1.42	1.33
1	8F	197	ASP	CA-C	-6.59	1.44	1.52
1	8W	201	ILE	CA-C	6.59	1.60	1.52
1	9p	151	LEU	CA-C	-6.59	1.44	1.52
1	12	170	LYS	CA-C	-6.59	1.44	1.52
1	aC	23	TRP	C-N	6.59	1.42	1.33
1	aV	214	MET	CA-CB	6.59	1.64	1.53
1	1b	149	SER	CA-CB	6.59	1.63	1.53
1	c9	82	ARG	CA-C	6.59	1.61	1.52
1	dc	221	VAL	CA-CB	-6.59	1.47	1.54
1	e5	98	GLU	CA-C	6.59	1.59	1.53
1	f2	67	GLN	N-CA	6.59	1.54	1.46
1	fh	186	THR	C-N	6.59	1.43	1.34
1	fj	216	THR	CA-C	-6.59	1.44	1.52
1	fJ	99	PRO	CA-CB	6.59	1.62	1.53
1	J	217	ALA	N-CA	-6.59	1.38	1.46
1	4	39	MET	CA-C	-6.59	1.44	1.52
1	gf	82	ARG	CA-CB	6.59	1.64	1.53
1	hm	21	ASN	CA-CB	6.59	1.63	1.53
1	ik	96	MET	CA-CB	6.59	1.63	1.53
1	io	58	THR	C-O	6.59	1.32	1.24
1	iF	151	LEU	CA-CB	6.59	1.64	1.53
1	jd	24	VAL	C-N	6.59	1.42	1.33
1	jx	23	TRP	N-CA	6.59	1.54	1.46
1	jE	150	ILE	C-N	6.59	1.42	1.33
1	jH	205	LEU	C-N	6.59	1.43	1.33
1	jQ	123	PRO	C-N	6.59	1.39	1.33
1	k9	226	HIS	ND1-CE1	6.59	1.39	1.32
1	kl	167	ARG	CA-C	6.59	1.61	1.52
1	kr	163	ASP	CA-CB	6.59	1.63	1.53
1	kY	120	HIS	CD2-NE2	6.59	1.45	1.37
1	2O	225	GLY	CA-C	-6.59	1.41	1.51
1	3q	12	HIS	CA-CB	6.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3v	4	GLN	CA-C	-6.59	1.44	1.52
1	3R	227	LYS	C-N	6.59	1.42	1.33
1	40	163	ASP	CA-C	6.59	1.61	1.52
1	4e	87	HIS	CB-CG	6.59	1.59	1.50
1	5s	205	LEU	CA-CB	6.59	1.63	1.53
1	5H	204	ALA	N-CA	6.59	1.54	1.46
1	6q	154	ARG	CA-C	-6.59	1.44	1.52
1	7i	80	TRP	C-N	6.59	1.42	1.33
1	86	188	THR	N-CA	-6.59	1.40	1.46
1	9p	170	LYS	CA-C	6.59	1.61	1.52
1	9F	129	ILE	N-CA	-6.59	1.38	1.46
1	9L	168	PHE	CA-C	6.59	1.61	1.52
1	9X	79	GLU	CA-C	-6.59	1.43	1.52
1	ap	202	LEU	N-CA	-6.59	1.37	1.46
1	aU	23	TRP	CA-CB	6.59	1.64	1.53
1	ba	194	ALA	N-CA	6.59	1.54	1.46
1	1b	155	GLN	C-N	6.59	1.43	1.33
1	da	18	ARG	CD-NE	6.59	1.55	1.46
1	ds	224	PRO	N-CD	-6.59	1.38	1.47
1	e5	62	HIS	CA-CB	6.59	1.63	1.53
1	1p	66	MET	CA-C	6.59	1.61	1.52
1	ec	213	GLU	C-N	6.59	1.42	1.33
1	fa	171	THR	CA-C	-6.59	1.44	1.52
1	fj	63	GLN	CA-C	6.59	1.61	1.52
1	R	131	LYS	N-CA	6.59	1.54	1.46
1	gn	104	ILE	CA-CB	-6.59	1.46	1.54
1	hx	62	HIS	CE1-NE2	6.59	1.39	1.32
1	kR	111	LEU	C-N	6.59	1.42	1.33
1	lk	120	HIS	CD2-NE2	6.59	1.45	1.37
1	6F	41	SER	CA-C	6.59	1.61	1.52
1	6P	213	GLU	N-CA	-6.59	1.38	1.46
1	ba	200	THR	N-CA	-6.59	1.38	1.46
1	bY	36	VAL	C-N	6.59	1.40	1.33
1	cp	117	TRP	N-CA	6.59	1.54	1.46
1	cJ	23	TRP	CA-CB	6.59	1.64	1.53
1	db	62	HIS	CE1-NE2	6.59	1.39	1.32
1	e8	178	SER	C-N	6.59	1.42	1.33
1	gy	1	PRO	N-CD	6.59	1.56	1.47
1	gK	190	LEU	C-N	6.59	1.41	1.33
1	gO	36	VAL	N-CA	6.59	1.54	1.46
1	hb	13	GLN	N-CA	-6.59	1.37	1.45
1	hH	165	VAL	CA-C	-6.59	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hQ	82	ARG	CD-NE	6.59	1.55	1.46
1	ia	85	PRO	CA-CB	6.59	1.59	1.53
1	iv	88	ALA	CA-CB	6.59	1.62	1.53
1	jo	48	THR	N-CA	-6.59	1.37	1.45
1	jq	134	ILE	C-N	6.59	1.42	1.34
1	28	164	TYR	CA-CB	6.59	1.63	1.53
1	lC	87	HIS	ND1-CE1	6.59	1.39	1.32
1	2k	139	ASN	CA-C	6.59	1.61	1.52
1	2I	159	GLU	CA-C	6.59	1.59	1.52
1	2V	40	PHE	C-N	6.59	1.42	1.33
1	3O	137	GLY	N-CA	6.59	1.54	1.45
1	49	39	MET	CA-CB	6.59	1.63	1.53
1	4q	75	GLU	CA-CB	6.59	1.63	1.53
1	5m	71	GLU	CA-C	6.59	1.61	1.52
1	5o	84	HIS	C-N	-6.59	1.28	1.33
1	6i	32	PHE	CA-CB	6.59	1.62	1.53
1	8U	195	ASN	CA-C	6.59	1.59	1.53
1	9l	32	PHE	CA-CB	6.59	1.62	1.53
1	9I	225	GLY	N-CA	6.59	1.54	1.45
1	ab	187	GLU	CA-CB	6.59	1.64	1.53
1	aj	130	TYR	CA-C	6.59	1.61	1.52
1	aF	137	GLY	CA-C	-6.59	1.44	1.52
1	aK	49	PRO	CA-CB	-6.59	1.44	1.53
1	b7	87	HIS	ND1-CE1	6.59	1.39	1.32
1	19	224	PRO	N-CA	6.59	1.56	1.47
1	bO	229	ARG	CD-NE	6.59	1.55	1.46
1	1c	127	GLY	CA-C	-6.59	1.44	1.52
1	d0	44	SER	CA-CB	6.59	1.63	1.53
1	1o	114	GLN	CA-C	6.59	1.61	1.52
1	1s	22	ALA	C-N	6.59	1.42	1.33
1	eT	190	LEU	C-N	6.59	1.41	1.33
1	eV	167	ARG	CD-NE	6.59	1.55	1.46
1	fA	153	ILE	CA-CB	6.59	1.60	1.54
1	fX	16	SER	N-CA	6.59	1.56	1.46
1	1G	117	TRP	N-CA	-6.58	1.38	1.46
1	h0	91	ILE	CA-CB	6.58	1.61	1.54
1	hf	31	ALA	N-CA	-6.58	1.39	1.47
1	hG	127	GLY	C-O	-6.58	1.16	1.23
1	iY	10	MET	CA-CB	6.58	1.64	1.53
1	jM	2	ILE	CA-CB	6.58	1.61	1.54
1	1Z	3	VAL	CA-CB	-6.58	1.46	1.54
1	kr	151	LEU	CA-C	6.58	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kM	62	HIS	CE1-NE2	6.58	1.39	1.32
1	la	230	VAL	CA-CB	-6.58	1.45	1.54
1	lz	122	PRO	C-N	6.58	1.42	1.33
1	2f	174	ALA	N-CA	-6.58	1.40	1.46
1	4R	37	ILE	CA-CB	6.58	1.58	1.53
1	6s	183	ASN	CA-C	6.58	1.61	1.52
1	72	184	TRP	CA-CB	6.58	1.63	1.53
1	8a	187	GLU	CA-C	-6.58	1.44	1.52
1	9h	223	GLY	N-CA	6.58	1.53	1.44
1	bt	33	SER	CA-C	6.58	1.61	1.52
1	co	53	ASN	CA-CB	6.58	1.63	1.53
1	cv	162	ARG	CD-NE	6.58	1.55	1.46
1	eB	226	HIS	ND1-CE1	6.58	1.39	1.32
1	eN	2	ILE	CA-CB	-6.58	1.45	1.54
1	fC	34	PRO	N-CA	-6.58	1.38	1.47
1	fM	87	HIS	CG-ND1	-6.58	1.31	1.38
1	0	206	GLY	C-N	-6.58	1.26	1.33
1	h	119	THR	CA-C	-6.58	1.43	1.52
1	j	75	GLU	CA-CB	6.58	1.63	1.53
1	l	210	THR	C-O	6.58	1.31	1.23
1	gc	190	LEU	CA-C	6.58	1.61	1.52
1	gU	200	THR	CA-CB	-6.58	1.43	1.53
1	it	5	ASN	CA-C	6.58	1.60	1.52
1	js	99	PRO	CA-CB	6.58	1.62	1.53
1	jF	33	SER	CA-C	-6.58	1.45	1.52
1	kq	226	HIS	CG-CD2	6.58	1.43	1.35
1	2E	132	ARG	C-N	6.58	1.42	1.33
1	2O	159	GLU	CA-C	-6.58	1.44	1.53
1	3X	28	GLU	N-CA	-6.58	1.38	1.46
1	4O	188	THR	CA-C	6.58	1.59	1.53
1	5a	188	THR	CA-C	-6.58	1.46	1.53
1	5A	77	ALA	C-N	6.58	1.42	1.33
1	7q	19	THR	C-O	6.58	1.31	1.24
1	8b	220	GLY	CA-C	-6.58	1.42	1.51
1	8D	35	GLU	CA-C	6.58	1.61	1.52
1	8Q	145	TYR	C-O	-6.58	1.15	1.24
1	8T	59	VAL	CA-CB	-6.58	1.46	1.54
1	8X	2	ILE	N-CA	-6.58	1.38	1.46
1	9g	84	HIS	CA-CB	6.58	1.61	1.53
1	av	9	GLN	CA-C	6.58	1.61	1.52
1	ay	117	TRP	N-CA	-6.58	1.38	1.46
1	aI	87	HIS	CA-C	6.58	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aX	120	HIS	C-N	6.58	1.39	1.33
1	c3	103	ASP	CA-C	6.58	1.61	1.52
1	co	109	SER	C-O	-6.58	1.16	1.24
1	e6	1	PRO	N-CA	6.58	1.56	1.47
1	eb	24	VAL	CA-C	-6.58	1.44	1.52
1	el	200	THR	C-N	6.58	1.42	1.33
1	1r	168	PHE	CA-CB	6.58	1.63	1.53
1	2	198	CYS	CA-C	-6.58	1.44	1.52
1	u	24	VAL	C-N	6.58	1.42	1.34
1	gF	123	PRO	CA-C	-6.58	1.44	1.52
1	hq	89	GLY	CA-C	-6.58	1.42	1.51
1	hG	208	ALA	CA-C	6.58	1.61	1.52
1	iZ	137	GLY	CA-C	6.58	1.59	1.52
1	jC	77	ALA	CA-CB	6.58	1.63	1.53
1	l0	95	GLN	N-CA	-6.58	1.38	1.46
1	lt	18	ARG	CA-C	-6.58	1.44	1.52
1	2g	136	LEU	C-N	6.58	1.43	1.33
1	2p	219	GLN	CA-C	6.58	1.61	1.52
1	2W	226	HIS	ND1-CE1	6.58	1.39	1.32
1	3W	209	ALA	C-N	6.58	1.42	1.33
1	4w	147	PRO	CA-CB	6.58	1.63	1.53
1	4O	134	ILE	N-CA	6.58	1.55	1.46
1	6b	126	VAL	CA-CB	6.58	1.63	1.54
1	6g	123	PRO	C-O	6.58	1.31	1.23
1	6w	36	VAL	CA-C	-6.58	1.44	1.52
1	78	152	ASP	CA-C	6.58	1.61	1.52
1	7i	62	HIS	CE1-NE2	6.58	1.39	1.32
1	7l	40	PHE	CA-CB	6.58	1.63	1.53
1	8q	224	PRO	CA-CB	-6.58	1.44	1.53
1	8R	178	SER	CA-CB	6.58	1.64	1.53
1	bv	198	CYS	N-CA	6.58	1.54	1.46
1	bw	101	GLY	N-CA	6.58	1.53	1.45
1	cw	166	ASP	CA-CB	6.58	1.63	1.53
1	1f	55	MET	CA-C	6.58	1.61	1.52
1	eI	106	GLY	N-CA	6.58	1.54	1.45
1	f7	199	LYS	C-N	6.58	1.42	1.33
1	1x	62	HIS	CG-CD2	-6.58	1.28	1.35
1	gu	173	ARG	CA-CB	6.58	1.63	1.53
1	gy	155	GLN	CA-C	-6.58	1.44	1.52
1	hd	117	TRP	NE1-CE2	-6.58	1.30	1.37
1	hy	182	LYS	CA-C	-6.58	1.44	1.52
1	i4	113	GLU	CA-C	6.58	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lf	86	VAL	C-N	6.58	1.42	1.33
1	lq	116	GLY	N-CA	6.58	1.53	1.45
1	29	167	ARG	CA-CB	6.58	1.63	1.53
1	30	78	ALA	CA-C	6.58	1.61	1.52
1	35	152	ASP	C-N	6.58	1.41	1.33
1	40	40	PHE	N-CA	-6.58	1.38	1.46
1	4c	217	ALA	C-N	6.58	1.43	1.33
1	4G	154	ARG	CD-NE	6.58	1.55	1.46
1	7t	54	THR	C-O	-6.58	1.16	1.24
1	8c	7	GLN	C-N	6.58	1.39	1.32
1	ai	208	ALA	N-CA	-6.58	1.37	1.46
1	ar	15	ILE	CA-CB	-6.58	1.47	1.54
1	dh	200	THR	N-CA	6.58	1.54	1.46
1	dA	92	GLU	N-CA	-6.58	1.36	1.45
1	ew	11	VAL	CA-C	-6.58	1.45	1.52
1	f6	160	PRO	N-CA	6.58	1.55	1.47
1	U	34	PRO	CA-CB	-6.58	1.44	1.53
1	V	101	GLY	CA-C	-6.58	1.44	1.52
1	ge	160	PRO	CA-C	-6.58	1.44	1.52
1	h8	124	ILE	CA-C	-6.58	1.46	1.52
1	ho	125	PRO	CA-C	-6.58	1.47	1.53
1	hy	123	PRO	C-N	6.58	1.39	1.33
1	hG	229	ARG	CA-CB	6.58	1.62	1.53
1	if	10	MET	CA-CB	6.58	1.64	1.53
1	iq	145	TYR	N-CA	6.58	1.53	1.46
1	ji	132	ARG	CZ-NH1	-6.58	1.23	1.32
1	jE	147	PRO	CA-C	6.58	1.61	1.52
1	kq	177	ALA	CA-C	6.58	1.60	1.52
1	kt	88	ALA	C-O	6.58	1.31	1.24
1	kt	154	ARG	CD-NE	6.58	1.55	1.46
1	kE	53	ASN	CA-C	-6.58	1.44	1.52
1	kF	209	ALA	C-N	6.58	1.42	1.33
1	kN	211	LEU	N-CA	-6.58	1.38	1.46
1	kV	123	PRO	N-CA	-6.58	1.39	1.47
1	lB	50	GLN	CA-CB	6.58	1.63	1.53
1	43	182	LYS	C-N	6.58	1.41	1.33
1	57	75	GLU	C-N	6.58	1.43	1.34
1	5s	41	SER	CA-C	-6.58	1.44	1.52
1	6r	134	ILE	CA-CB	6.58	1.62	1.54
1	7k	220	GLY	CA-C	6.58	1.60	1.51
1	7O	162	ARG	CA-C	6.58	1.61	1.52
1	7V	76	GLU	N-CA	6.58	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	94	139	ASN	CA-CB	6.58	1.63	1.53
1	9b	4	GLN	CA-C	6.58	1.61	1.52
1	9I	82	ARG	CD-NE	6.58	1.55	1.46
1	aG	17	PRO	CA-CB	-6.58	1.44	1.53
1	c2	13	GLN	C-N	6.58	1.42	1.33
1	cp	103	ASP	N-CA	-6.58	1.38	1.46
1	cN	66	MET	CA-C	-6.58	1.44	1.52
1	dY	63	GLN	CA-C	-6.58	1.43	1.52
1	er	23	TRP	NE1-CE2	-6.58	1.30	1.37
1	eE	48	THR	N-CA	6.58	1.56	1.45
1	1z	118	MET	CA-C	-6.58	1.43	1.52
1	1A	54	THR	C-N	6.58	1.42	1.33
1	A	135	ILE	C-N	6.58	1.42	1.33
1	gw	213	GLU	N-CA	-6.58	1.38	1.46
1	gH	201	ILE	CA-C	6.58	1.60	1.52
1	1H	84	HIS	N-CA	-6.58	1.39	1.46
1	hS	220	GLY	CA-C	-6.58	1.45	1.52
1	iR	226	HIS	CB-CG	-6.58	1.41	1.50
1	8m	61	GLY	C-N	6.58	1.42	1.33
1	9N	19	THR	C-N	6.58	1.42	1.33
1	aC	190	LEU	CA-C	6.58	1.61	1.52
1	eO	198	CYS	CA-C	6.58	1.61	1.52
1	h	230	VAL	CA-C	6.58	1.60	1.52
1	gg	75	GLU	N-CA	-6.58	1.38	1.46
1	ht	168	PHE	CA-CB	6.58	1.63	1.53
1	ic	173	ARG	CD-NE	6.58	1.55	1.46
1	ih	188	THR	N-CA	6.58	1.54	1.46
1	iv	148	THR	C-N	6.58	1.42	1.33
1	iw	64	ALA	CA-C	6.58	1.61	1.52
1	ke	152	ASP	C-N	6.58	1.40	1.33
1	ky	154	ARG	CD-NE	6.58	1.55	1.46
1	l3	124	ILE	CA-C	-6.58	1.47	1.53
1	lI	37	ILE	CA-CB	-6.58	1.50	1.54
1	lJ	37	ILE	CA-CB	6.58	1.62	1.54
1	lM	93	PRO	C-O	6.58	1.31	1.23
1	2g	12	HIS	CG-ND1	-6.58	1.31	1.38
1	2w	138	LEU	C-N	6.58	1.42	1.33
1	2w	144	MET	C-O	-6.58	1.16	1.24
1	2S	223	GLY	C-N	6.58	1.42	1.34
1	3e	51	ASP	CA-CB	6.58	1.63	1.53
1	3v	52	LEU	C-N	6.58	1.42	1.33
1	3U	77	ALA	CA-CB	6.58	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3W	91	ILE	CA-CB	-6.58	1.46	1.54
1	4H	132	ARG	CA-CB	6.58	1.63	1.53
1	4O	196	PRO	C-N	6.58	1.42	1.33
1	4Y	95	GLN	CA-C	6.58	1.61	1.52
1	5f	67	GLN	CA-CB	6.58	1.64	1.53
1	5A	179	GLN	C-N	6.58	1.42	1.33
1	6d	43	LEU	CA-CB	6.58	1.64	1.53
1	6I	45	GLU	N-CA	-6.58	1.37	1.46
1	7b	37	ILE	CA-CB	6.58	1.57	1.54
1	7B	222	GLY	CA-C	-6.58	1.42	1.51
1	7H	95	GLN	C-N	6.58	1.42	1.33
1	8T	71	GLU	N-CA	-6.58	1.38	1.46
1	9v	200	THR	C-N	6.58	1.42	1.33
1	9W	27	VAL	CA-CB	-6.58	1.46	1.54
1	10	30	LYS	CA-CB	6.58	1.63	1.53
1	aZ	33	SER	CA-C	-6.58	1.45	1.52
1	b3	57	ASN	CA-CB	6.58	1.64	1.53
1	cH	227	LYS	CA-CB	6.58	1.63	1.53
1	d7	124	ILE	CA-C	-6.58	1.48	1.53
1	dm	73	ILE	C-N	6.58	1.42	1.33
1	dA	35	GLU	CA-CB	6.58	1.64	1.53
1	gw	154	ARG	CD-NE	6.57	1.55	1.46
1	gU	17	PRO	C-N	6.57	1.43	1.33
1	hJ	166	ASP	CA-CB	6.57	1.63	1.53
1	hW	217	ALA	N-CA	-6.57	1.37	1.46
1	hZ	212	GLU	N-CA	6.57	1.54	1.46
1	i3	10	MET	C-N	6.57	1.41	1.33
1	ia	152	ASP	CA-CB	6.57	1.64	1.53
1	ir	98	GLU	CA-C	-6.57	1.45	1.53
1	jT	172	LEU	CA-CB	6.57	1.63	1.53
1	k8	158	LYS	CA-C	6.57	1.61	1.52
1	kw	16	SER	CA-C	6.57	1.60	1.52
1	ky	184	TRP	NE1-CE2	6.57	1.44	1.37
1	kL	159	GLU	CA-CB	6.57	1.64	1.53
1	lH	202	LEU	CA-C	6.57	1.61	1.52
1	2u	93	PRO	C-N	6.57	1.42	1.33
1	2Y	201	ILE	CA-C	-6.57	1.44	1.52
1	3j	87	HIS	C-N	6.57	1.42	1.33
1	3G	12	HIS	ND1-CE1	6.57	1.39	1.32
1	3U	178	SER	CA-C	-6.57	1.44	1.52
1	43	134	ILE	C-N	6.57	1.42	1.33
1	4m	230	VAL	N-CA	6.57	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5b	120	HIS	CA-CB	6.57	1.64	1.53
1	5i	13	GLN	N-CA	-6.57	1.37	1.46
1	6g	135	ILE	CA-C	-6.57	1.43	1.52
1	6E	190	LEU	N-CA	6.57	1.54	1.46
1	6W	197	ASP	C-N	6.57	1.43	1.33
1	7H	183	ASN	C-O	-6.57	1.16	1.24
1	7J	84	HIS	ND1-CE1	6.57	1.39	1.32
1	7N	82	ARG	CD-NE	6.57	1.55	1.46
1	8G	39	MET	CA-CB	6.57	1.63	1.53
1	9T	100	ARG	N-CA	-6.57	1.37	1.45
1	bg	149	SER	CA-C	6.57	1.61	1.52
1	bg	191	VAL	CA-C	6.57	1.60	1.52
1	bS	161	PHE	CA-C	6.57	1.61	1.52
1	1h	195	ASN	C-N	6.57	1.42	1.34
1	es	108	THR	CA-CB	-6.57	1.43	1.53
1	eT	176	GLN	CA-C	6.57	1.60	1.53
1	fu	145	TYR	N-CA	-6.57	1.37	1.46
1	g4	18	ARG	CD-NE	6.57	1.55	1.46
1	gk	7	GLN	CA-C	-6.57	1.44	1.52
1	ll	2	ILE	N-CA	-6.57	1.39	1.46
1	29	99	PRO	CA-C	6.57	1.60	1.52
1	3t	123	PRO	C-N	6.57	1.39	1.33
1	5H	4	GLN	CA-CB	6.57	1.64	1.53
1	7Z	13	GLN	N-CA	-6.57	1.37	1.45
1	a5	207	PRO	CA-C	6.57	1.58	1.52
1	a8	144	MET	CA-C	6.57	1.61	1.52
1	ce	147	PRO	C-N	6.57	1.42	1.33
1	d0	150	ILE	CA-CB	-6.57	1.46	1.54
1	1i	2	ILE	CA-CB	-6.57	1.46	1.54
1	dl	90	PRO	CA-C	6.57	1.60	1.52
1	g6	55	MET	CA-CB	6.57	1.63	1.53
1	he	82	ARG	CZ-NH1	-6.57	1.23	1.32
1	hh	133	TRP	CA-CB	6.57	1.63	1.53
1	i4	85	PRO	CA-C	6.57	1.60	1.52
1	iy	181	VAL	C-O	-6.57	1.16	1.24
1	jf	218	CYS	CA-CB	6.57	1.63	1.53
1	jH	170	LYS	N-CA	6.57	1.54	1.46
1	k3	170	LYS	N-CA	-6.57	1.38	1.46
1	kn	188	THR	CA-C	-6.57	1.44	1.52
1	kA	100	ARG	CA-CB	6.57	1.64	1.53
1	ln	81	ASP	CA-CB	6.57	1.63	1.53
1	lB	53	ASN	CA-C	6.57	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lD	228	ALA	N-CA	6.57	1.54	1.46
1	lI	175	GLU	CA-CB	6.57	1.63	1.53
1	lP	139	ASN	CA-CB	6.57	1.64	1.53
1	2O	24	VAL	CA-CB	-6.57	1.46	1.54
1	2O	221	VAL	CA-C	-6.57	1.46	1.53
1	3V	60	GLY	C-N	-6.57	1.26	1.33
1	4E	134	ILE	CA-C	-6.57	1.44	1.52
1	5k	80	TRP	CA-CB	6.57	1.63	1.53
1	5k	104	ILE	CA-CB	-6.57	1.46	1.54
1	6N	75	GLU	CA-C	6.57	1.61	1.52
1	72	168	PHE	N-CA	-6.57	1.38	1.46
1	76	84	HIS	CG-CD2	6.57	1.43	1.35
1	8F	13	GLN	CA-C	-6.57	1.44	1.52
1	99	63	GLN	N-CA	6.57	1.54	1.46
1	9Q	97	ARG	CA-C	-6.57	1.44	1.52
1	9W	80	TRP	NE1-CE2	6.57	1.44	1.37
1	aE	197	ASP	CA-CB	6.57	1.63	1.53
1	bH	119	THR	CA-C	-6.57	1.44	1.52
1	ce	81	ASP	C-N	6.57	1.43	1.33
1	cV	134	ILE	CA-C	6.57	1.61	1.52
1	d2	179	GLN	CA-CB	6.57	1.63	1.53
1	dt	33	SER	CA-C	6.57	1.59	1.52
1	dV	185	MET	CA-CB	6.57	1.63	1.53
1	dW	194	ALA	CA-CB	-6.57	1.42	1.53
1	C	86	VAL	C-N	6.57	1.42	1.33
1	K	176	GLN	CA-CB	6.57	1.63	1.53
1	8	162	ARG	NE-CZ	6.57	1.40	1.33
1	gp	9	GLN	N-CA	6.57	1.54	1.46
1	ie	80	TRP	CA-CB	6.57	1.63	1.53
1	kZ	111	LEU	CA-CB	6.57	1.63	1.53
1	26	148	THR	N-CA	-6.57	1.37	1.45
1	2R	78	ALA	CA-C	6.57	1.61	1.52
1	3D	226	HIS	C-N	6.57	1.41	1.33
1	3S	69	LEU	N-CA	-6.57	1.38	1.46
1	5b	127	GLY	CA-C	-6.57	1.44	1.52
1	9S	125	PRO	C-N	6.57	1.41	1.33
1	aA	155	GLN	CA-C	6.57	1.60	1.52
1	bV	65	ALA	CA-C	6.57	1.61	1.52
1	du	193	ASN	CA-C	-6.57	1.43	1.52
1	fk	196	PRO	CA-CB	6.57	1.63	1.53
1	5	26	VAL	CA-CB	-6.57	1.46	1.54
1	gg	92	GLU	CA-C	6.57	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hf	40	PHE	C-N	6.57	1.42	1.33
1	hI	196	PRO	CA-C	-6.57	1.43	1.52
1	hL	152	ASP	C-N	6.57	1.41	1.33
1	hS	95	GLN	CA-C	6.57	1.60	1.52
1	i2	38	PRO	N-CD	-6.57	1.38	1.47
1	ii	27	VAL	C-N	6.57	1.42	1.33
1	26	112	GLN	N-CA	-6.57	1.38	1.46
1	lg	229	ARG	C-O	6.57	1.31	1.23
1	lR	224	PRO	CA-C	-6.57	1.46	1.52
1	2C	93	PRO	CA-C	6.57	1.60	1.52
1	3M	125	PRO	CA-CB	-6.57	1.47	1.53
1	85	20	LEU	N-CA	6.57	1.54	1.46
1	8d	76	GLU	N-CA	6.57	1.54	1.46
1	8X	156	GLY	C-N	6.57	1.42	1.33
1	9k	16	SER	C-N	6.57	1.41	1.33
1	a2	128	GLU	CA-C	-6.57	1.44	1.52
1	aH	123	PRO	N-CA	6.57	1.55	1.47
1	bx	154	ARG	CD-NE	6.57	1.55	1.46
1	bK	230	VAL	CA-CB	6.57	1.63	1.54
1	c9	19	THR	N-CA	-6.57	1.38	1.46
1	e4	142	VAL	CA-CB	-6.57	1.46	1.54
1	ep	79	GLU	CA-C	-6.57	1.44	1.52
1	eJ	93	PRO	C-O	-6.57	1.16	1.24
1	fh	121	ASN	CA-C	6.57	1.58	1.52
1	fs	6	LEU	CA-CB	6.57	1.61	1.53
1	1	125	PRO	CA-CB	6.57	1.60	1.53
1	E	216	THR	C-N	6.57	1.42	1.33
1	U	130	TYR	CA-C	6.57	1.61	1.52
1	hp	86	VAL	CA-CB	-6.57	1.46	1.54
1	hI	80	TRP	NE1-CE2	6.57	1.44	1.37
1	i7	6	LEU	CA-CB	6.57	1.62	1.53
1	is	50	GLN	CA-C	6.57	1.61	1.52
1	jh	196	PRO	N-CD	-6.57	1.38	1.47
1	jv	189	LEU	N-CA	-6.57	1.38	1.46
1	jD	230	VAL	CA-CB	-6.57	1.47	1.54
1	jE	136	LEU	CA-CB	6.57	1.64	1.53
1	jH	97	ARG	CA-C	-6.57	1.44	1.52
1	kI	85	PRO	CA-C	-6.57	1.43	1.52
1	kJ	47	ALA	CA-C	6.57	1.61	1.52
1	l7	55	MET	C-N	6.57	1.42	1.33
1	lB	117	TRP	CA-C	6.57	1.61	1.52
1	31	165	VAL	CA-C	6.57	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3f	8	GLY	CA-C	-6.57	1.42	1.51
1	3z	87	HIS	CD2-NE2	6.57	1.45	1.37
1	4Y	62	HIS	CE1-NE2	6.57	1.39	1.32
1	5c	62	HIS	CD2-NE2	6.57	1.45	1.37
1	5Y	71	GLU	CA-CB	6.57	1.63	1.53
1	62	175	GLU	N-CA	-6.57	1.37	1.46
1	64	166	ASP	CA-C	6.57	1.61	1.52
1	6G	219	GLN	N-CA	6.57	1.53	1.45
1	7D	7	GLN	N-CA	-6.57	1.38	1.46
1	7O	135	ILE	CA-C	6.57	1.60	1.52
1	7V	229	ARG	CD-NE	6.57	1.55	1.46
1	8j	180	GLU	C-N	6.57	1.42	1.33
1	8m	97	ARG	CD-NE	6.57	1.55	1.46
1	8T	58	THR	CA-CB	-6.57	1.43	1.53
1	9k	88	ALA	CA-C	6.57	1.60	1.52
1	as	78	ALA	CA-C	-6.57	1.44	1.52
1	aD	221	VAL	C-N	6.57	1.41	1.33
1	ba	18	ARG	N-CA	-6.57	1.38	1.46
1	bo	75	GLU	CA-CB	6.57	1.63	1.53
1	co	25	LYS	N-CA	-6.57	1.38	1.46
1	cP	24	VAL	CA-C	6.57	1.60	1.52
1	d3	128	GLU	C-N	6.57	1.42	1.33
1	df	210	THR	N-CA	6.57	1.54	1.45
1	dy	134	ILE	N-CA	6.57	1.54	1.46
1	dK	226	HIS	ND1-CE1	6.57	1.39	1.32
1	e4	197	ASP	CA-C	6.57	1.61	1.52
1	e9	24	VAL	CA-CB	-6.57	1.46	1.54
1	eK	66	MET	CA-C	6.57	1.61	1.52
1	eL	91	ILE	CA-CB	-6.57	1.47	1.54
1	f9	69	LEU	CA-CB	6.57	1.63	1.53
1	n	137	GLY	C-N	6.57	1.42	1.33
1	1G	30	LYS	CA-CB	6.56	1.64	1.53
1	hv	215	MET	CA-C	6.56	1.61	1.52
1	i1	45	GLU	N-CA	6.56	1.54	1.46
1	ih	18	ARG	CZ-NH1	-6.56	1.23	1.32
1	k0	109	SER	CA-CB	6.56	1.64	1.53
1	22	19	THR	CA-C	-6.56	1.44	1.52
1	kU	2	ILE	CA-C	6.56	1.61	1.52
1	2X	168	PHE	CA-CB	6.56	1.63	1.53
1	3V	52	LEU	CA-CB	6.56	1.63	1.53
1	4n	36	VAL	C-N	6.56	1.43	1.33
1	4r	80	TRP	N-CA	6.56	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5B	55	MET	N-CA	-6.56	1.38	1.46
1	60	133	TRP	NE1-CE2	-6.56	1.30	1.37
1	6f	185	MET	CA-CB	6.56	1.63	1.53
1	6Q	23	TRP	CA-C	6.56	1.61	1.52
1	7O	67	GLN	CA-C	6.56	1.61	1.52
1	bA	46	GLY	N-CA	6.56	1.55	1.45
1	d0	146	SER	N-CA	-6.56	1.40	1.46
1	d2	181	VAL	CA-CB	-6.56	1.46	1.54
1	gg	162	ARG	CD-NE	6.56	1.55	1.46
1	gk	37	ILE	CA-CB	-6.56	1.50	1.54
1	gC	157	PRO	N-CD	-6.56	1.38	1.47
1	gG	219	GLN	CA-C	-6.56	1.44	1.52
1	hS	132	ARG	CD-NE	6.56	1.55	1.46
1	iJ	133	TRP	NE1-CE2	6.56	1.44	1.37
1	iM	12	HIS	CA-CB	6.56	1.62	1.53
1	iW	95	GLN	CA-CB	6.56	1.65	1.53
1	jZ	70	LYS	CA-CB	6.56	1.63	1.53
1	kw	71	GLU	C-N	6.56	1.42	1.34
1	ky	192	GLN	CA-CB	6.56	1.64	1.53
1	kz	110	THR	CA-C	-6.56	1.43	1.53
1	li	148	THR	CA-C	-6.56	1.44	1.52
1	2x	91	ILE	CA-CB	6.56	1.61	1.53
1	2R	149	SER	N-CA	6.56	1.53	1.45
1	37	141	ILE	CA-C	6.56	1.60	1.52
1	3j	205	LEU	N-CA	6.56	1.54	1.46
1	4L	45	GLU	CA-C	6.56	1.60	1.52
1	5o	208	ALA	CA-C	6.56	1.61	1.53
1	5w	96	MET	N-CA	-6.56	1.38	1.46
1	6z	3	VAL	CA-C	6.56	1.60	1.52
1	70	20	LEU	C-N	6.56	1.42	1.33
1	7p	30	LYS	N-CA	-6.56	1.38	1.46
1	8L	31	ALA	C-O	-6.56	1.16	1.24
1	9h	202	LEU	C-N	6.56	1.42	1.33
1	9i	41	SER	CA-CB	6.56	1.63	1.53
1	9j	16	SER	CA-CB	6.56	1.62	1.53
1	aG	176	GLN	CA-CB	6.56	1.64	1.53
1	bj	38	PRO	N-CA	6.56	1.56	1.47
1	bA	205	LEU	C-N	6.56	1.43	1.33
1	c9	39	MET	CA-C	6.56	1.61	1.52
1	cj	123	PRO	C-N	6.56	1.40	1.33
1	e0	158	LYS	N-CA	-6.56	1.38	1.46
1	fq	88	ALA	C-O	-6.56	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fu	34	PRO	CA-CB	-6.56	1.44	1.53
1	fx	162	ARG	CA-C	-6.56	1.44	1.52
1	C	186	THR	N-CA	6.56	1.54	1.46
1	hY	54	THR	N-CA	-6.56	1.38	1.46
1	1Q	45	GLU	CA-CB	6.56	1.61	1.53
1	iL	93	PRO	CA-CB	6.56	1.63	1.53
1	kV	18	ARG	CD-NE	6.56	1.55	1.46
1	kZ	28	GLU	CA-CB	6.56	1.63	1.53
1	4b	69	LEU	CA-CB	6.56	1.63	1.53
1	7x	55	MET	CA-C	6.56	1.61	1.52
1	7B	84	HIS	C-O	-6.56	1.18	1.24
1	8C	87	HIS	ND1-CE1	6.56	1.39	1.32
1	Y	99	PRO	CA-CB	-6.56	1.45	1.53
1	9T	107	THR	N-CA	-6.56	1.38	1.46
1	at	4	GLN	CA-C	6.56	1.61	1.53
1	aL	154	ARG	CD-NE	6.56	1.55	1.46
1	bR	138	LEU	N-CA	-6.56	1.38	1.46
1	cG	35	GLU	CA-C	6.56	1.61	1.52
1	d8	173	ARG	CD-NE	6.56	1.55	1.46
1	dW	87	HIS	CG-CD2	6.56	1.43	1.35
1	e6	176	GLN	CA-C	6.56	1.61	1.52
1	ff	52	LEU	N-CA	-6.56	1.38	1.46
1	gn	87	HIS	ND1-CE1	6.56	1.39	1.32
1	gW	55	MET	CA-C	6.56	1.61	1.52
1	h8	57	ASN	CA-C	-6.56	1.43	1.52
1	hN	12	HIS	CE1-NE2	6.56	1.39	1.32
1	hZ	131	LYS	N-CA	-6.56	1.37	1.46
1	jf	18	ARG	CA-C	6.56	1.61	1.52
1	jo	146	SER	CA-C	-6.56	1.44	1.52
1	jp	192	GLN	CA-CB	6.56	1.63	1.53
1	js	226	HIS	ND1-CE1	6.56	1.39	1.32
1	jC	193	ASN	C-N	6.56	1.42	1.33
1	jJ	24	VAL	CA-CB	6.56	1.62	1.54
1	k6	117	TRP	C-N	6.56	1.42	1.33
1	23	173	ARG	CA-C	6.56	1.61	1.52
1	2z	118	MET	C-O	-6.56	1.16	1.24
1	2Y	42	ALA	CA-CB	6.56	1.63	1.53
1	3D	167	ARG	C-N	6.56	1.42	1.33
1	3O	226	HIS	CB-CG	-6.56	1.41	1.50
1	45	4	GLN	CA-CB	6.56	1.63	1.53
1	4i	18	ARG	N-CA	-6.56	1.38	1.46
1	57	9	GLN	CA-CB	6.56	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6g	193	ASN	C-N	6.56	1.42	1.33
1	6O	59	VAL	CA-CB	-6.56	1.45	1.54
1	6R	196	PRO	CA-C	-6.56	1.42	1.52
1	76	32	PHE	N-CA	-6.56	1.37	1.46
1	7k	56	LEU	CA-CB	6.56	1.64	1.53
1	7v	130	TYR	C-N	6.56	1.42	1.33
1	7E	41	SER	CA-C	-6.56	1.43	1.52
1	7W	101	GLY	CA-C	6.56	1.59	1.52
1	8c	42	ALA	C-N	6.56	1.42	1.33
1	8h	106	GLY	CA-C	-6.56	1.42	1.51
1	8D	177	ALA	C-N	6.56	1.42	1.33
1	9z	5	ASN	CA-C	-6.56	1.44	1.52
1	bv	126	VAL	C-N	6.56	1.42	1.33
1	cn	93	PRO	CA-C	-6.56	1.46	1.52
1	co	87	HIS	ND1-CE1	6.56	1.39	1.32
1	cD	87	HIS	ND1-CE1	6.56	1.39	1.32
1	cH	139	ASN	CA-CB	6.56	1.63	1.53
1	cY	106	GLY	N-CA	6.56	1.54	1.45
1	g7	63	GLN	CA-C	6.56	1.61	1.52
1	C	121	ASN	N-CA	-6.56	1.39	1.46
1	1G	132	ARG	CD-NE	6.56	1.55	1.46
1	hy	229	ARG	CD-NE	6.56	1.55	1.46
1	iP	115	ILE	N-CA	6.56	1.54	1.46
1	1T	17	PRO	C-N	6.56	1.42	1.33
1	kq	166	ASP	CA-C	6.56	1.61	1.52
1	kA	139	ASN	C-N	-6.56	1.25	1.33
1	kS	87	HIS	ND1-CE1	6.56	1.39	1.32
1	kT	150	ILE	CA-C	6.56	1.61	1.52
1	kW	4	GLN	CA-C	6.56	1.61	1.52
1	la	139	ASN	CA-C	-6.56	1.44	1.52
1	lI	65	ALA	C-N	6.56	1.42	1.33
1	lQ	178	SER	C-N	6.56	1.42	1.34
1	2v	12	HIS	CA-C	-6.56	1.44	1.52
1	2M	226	HIS	CA-C	6.56	1.61	1.52
1	30	93	PRO	CA-CB	6.56	1.63	1.53
1	3k	98	GLU	C-N	6.56	1.41	1.33
1	4E	61	GLY	CA-C	-6.56	1.45	1.51
1	4Z	45	GLU	N-CA	6.56	1.54	1.46
1	6L	226	HIS	CA-C	6.56	1.60	1.52
1	6P	184	TRP	NE1-CE2	-6.56	1.30	1.37
1	7g	97	ARG	CA-C	6.56	1.60	1.52
1	7i	56	LEU	CA-C	6.56	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ak	89	GLY	N-CA	6.56	1.53	1.44
1	al	125	PRO	CA-CB	6.56	1.63	1.53
1	aH	190	LEU	C-N	6.56	1.41	1.33
1	bg	153	ILE	C-O	6.56	1.30	1.24
1	bw	225	GLY	CA-C	-6.56	1.44	1.51
1	bI	103	ASP	N-CA	6.56	1.54	1.46
1	1a	74	ASN	N-CA	-6.56	1.38	1.46
1	bX	5	ASN	CA-C	6.56	1.61	1.52
1	c0	120	HIS	ND1-CE1	6.56	1.39	1.32
1	cb	119	THR	CA-CB	6.56	1.62	1.53
1	d4	32	PHE	CA-C	-6.56	1.44	1.52
1	e5	26	VAL	N-CA	-6.56	1.38	1.46
1	eD	207	PRO	N-CA	-6.56	1.39	1.47
1	f5	102	SER	N-CA	6.56	1.54	1.46
1	fZ	69	LEU	CA-CB	6.56	1.63	1.53
1	1	158	LYS	CA-C	-6.56	1.43	1.52
1	x	229	ARG	CD-NE	6.56	1.55	1.46
1	1D	40	PHE	CA-CB	6.56	1.63	1.53
1	gu	226	HIS	CB-CG	6.56	1.59	1.50
1	hp	87	HIS	ND1-CE1	6.56	1.39	1.32
1	iY	192	GLN	N-CA	6.56	1.54	1.46
1	jP	61	GLY	C-O	-6.56	1.17	1.23
1	lh	69	LEU	CA-C	6.56	1.61	1.52
1	5R	164	TYR	CA-CB	6.56	1.63	1.53
1	7b	81	ASP	CA-C	6.56	1.61	1.52
1	7Y	99	PRO	C-N	6.56	1.42	1.33
1	8g	166	ASP	CA-CB	6.56	1.63	1.53
1	8U	62	HIS	C-N	6.56	1.42	1.33
1	df	127	GLY	CA-C	-6.56	1.44	1.52
1	dj	91	ILE	C-N	6.56	1.41	1.32
1	dQ	96	MET	N-CA	6.56	1.54	1.46
1	f2	170	LYS	N-CA	6.56	1.54	1.46
1	fX	85	PRO	CA-C	6.56	1.60	1.52
1	1G	90	PRO	CA-CB	-6.55	1.44	1.53
1	hZ	154	ARG	CD-NE	6.55	1.55	1.46
1	iP	219	GLN	CA-C	6.55	1.60	1.52
1	j5	178	SER	CA-C	-6.55	1.44	1.52
1	jP	114	GLN	CA-C	-6.55	1.44	1.52
1	ld	5	ASN	CA-CB	6.55	1.64	1.53
1	lR	125	PRO	CA-C	-6.55	1.46	1.53
1	2r	70	LYS	CA-CB	6.55	1.63	1.53
1	36	122	PRO	N-CD	-6.55	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4s	138	LEU	C-N	6.55	1.42	1.33
1	4z	170	LYS	C-N	6.55	1.42	1.33
1	4W	76	GLU	CA-CB	6.55	1.63	1.53
1	5h	93	PRO	CA-C	6.55	1.61	1.52
1	5A	131	LYS	CA-C	-6.55	1.44	1.52
1	5K	12	HIS	CE1-NE2	-6.55	1.25	1.32
1	7P	199	LYS	CA-CB	6.55	1.63	1.53
1	8p	95	GLN	C-N	6.55	1.42	1.33
1	8r	13	GLN	C-N	6.55	1.42	1.33
1	8v	195	ASN	C-N	-6.55	1.25	1.33
1	8D	105	ALA	N-CA	6.55	1.54	1.46
1	9D	163	ASP	CA-CB	6.55	1.63	1.53
1	9F	40	PHE	N-CA	-6.55	1.38	1.46
1	an	7	GLN	CA-CB	6.55	1.64	1.53
1	aM	17	PRO	CA-C	-6.55	1.42	1.52
1	bN	64	ALA	CA-C	-6.55	1.43	1.52
1	ct	213	GLU	CA-C	6.55	1.61	1.52
1	cT	130	TYR	CA-CB	6.55	1.63	1.53
1	ei	208	ALA	CA-CB	6.55	1.65	1.53
1	eu	23	TRP	CA-CB	6.55	1.63	1.53
1	f3	120	HIS	CE1-NE2	6.55	1.39	1.32
1	f6	220	GLY	CA-C	-6.55	1.42	1.51
1	1w	9	GLN	CA-CB	6.55	1.63	1.53
1	x	31	ALA	CA-C	6.55	1.61	1.52
1	B	95	GLN	C-O	-6.55	1.16	1.24
1	gB	201	ILE	CA-C	6.55	1.61	1.52
1	j0	1	PRO	N-CA	6.55	1.56	1.47
1	2u	220	GLY	C-N	6.55	1.41	1.33
1	3p	100	ARG	CD-NE	6.55	1.55	1.46
1	4J	120	HIS	CA-C	6.55	1.60	1.52
1	6f	23	TRP	CA-CB	6.55	1.63	1.53
1	6x	72	THR	N-CA	6.55	1.53	1.46
1	7G	114	GLN	CA-CB	6.55	1.63	1.53
1	9L	106	GLY	CA-C	-6.55	1.43	1.51
1	Y	48	THR	CA-C	6.55	1.61	1.53
1	1e	70	LYS	CA-CB	6.55	1.63	1.53
1	cI	127	GLY	CA-C	-6.55	1.42	1.51
1	dn	180	GLU	C-N	6.55	1.42	1.33
1	v	82	ARG	N-CA	6.55	1.54	1.46
1	ga	37	ILE	CA-C	6.55	1.60	1.52
1	gi	89	GLY	N-CA	6.55	1.53	1.44
1	gm	180	GLU	C-N	6.55	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1H	45	GLU	C-N	6.55	1.39	1.33
1	ho	186	THR	N-CA	-6.55	1.38	1.46
1	hx	228	ALA	CA-CB	6.55	1.64	1.53
1	1N	132	ARG	C-N	6.55	1.42	1.33
1	in	189	LEU	N-CA	6.55	1.54	1.46
1	iY	15	ILE	CA-C	-6.55	1.45	1.52
1	jd	20	LEU	CA-CB	6.55	1.63	1.53
1	jE	173	ARG	CA-C	6.55	1.61	1.52
1	kF	138	LEU	CA-C	6.55	1.61	1.52
1	lc	44	SER	CA-CB	6.55	1.62	1.53
1	lk	127	GLY	CA-C	-6.55	1.45	1.52
1	2n	22	ALA	CA-C	6.55	1.60	1.52
1	2M	134	ILE	CA-CB	-6.55	1.47	1.54
1	3D	84	HIS	ND1-CE1	6.55	1.39	1.32
1	4s	143	ARG	CD-NE	6.55	1.55	1.46
1	5a	224	PRO	N-CD	6.55	1.56	1.47
1	5c	39	MET	C-O	-6.55	1.16	1.24
1	5V	179	GLN	N-CA	6.55	1.54	1.46
1	6b	146	SER	CA-CB	6.55	1.62	1.53
1	8h	191	VAL	C-O	-6.55	1.16	1.24
1	8l	175	GLU	C-N	6.55	1.43	1.33
1	8B	16	SER	CA-CB	6.55	1.62	1.53
1	a3	117	TRP	CA-CB	6.55	1.63	1.53
1	aj	161	PHE	C-O	-6.55	1.16	1.24
1	as	163	ASP	C-N	6.55	1.42	1.33
1	aQ	97	ARG	CA-CB	6.55	1.64	1.53
1	b0	125	PRO	CA-C	-6.55	1.47	1.53
1	bN	12	HIS	ND1-CE1	6.55	1.39	1.32
1	1b	221	VAL	CA-C	-6.55	1.44	1.52
1	c4	173	ARG	CA-CB	6.55	1.64	1.53
1	cF	134	ILE	C-O	-6.55	1.16	1.24
1	1i	97	ARG	CD-NE	6.55	1.55	1.46
1	1k	89	GLY	N-CA	6.55	1.53	1.44
1	f0	132	ARG	CA-CB	6.55	1.63	1.53
1	f1	150	ILE	CA-CB	-6.55	1.46	1.54
1	1	80	TRP	N-CA	6.55	1.54	1.46
1	v	15	ILE	CA-C	-6.55	1.42	1.52
1	gD	159	GLU	CA-CB	6.55	1.63	1.53
1	gZ	143	ARG	C-N	6.55	1.43	1.33
1	h1	83	LEU	N-CA	6.55	1.54	1.46
1	j2	121	ASN	CA-C	6.55	1.58	1.52
1	j4	69	LEU	N-CA	-6.55	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jt	179	GLN	CA-C	6.55	1.61	1.52
1	jy	103	ASP	C-N	6.55	1.42	1.33
1	jC	227	LYS	CA-C	-6.55	1.44	1.52
1	jV	63	GLN	N-CA	-6.55	1.37	1.46
1	kL	33	SER	CA-C	6.55	1.59	1.52
1	26	18	ARG	N-CA	-6.55	1.38	1.46
1	lv	196	PRO	N-CD	6.55	1.56	1.47
1	2t	189	LEU	N-CA	-6.55	1.38	1.46
1	2x	97	ARG	C-O	-6.55	1.16	1.23
1	2H	140	LYS	CA-C	-6.55	1.44	1.52
1	2T	87	HIS	ND1-CE1	6.55	1.39	1.32
1	3d	86	VAL	C-N	6.55	1.42	1.33
1	3f	102	SER	C-O	-6.55	1.16	1.24
1	3m	210	THR	CA-C	6.55	1.61	1.52
1	4D	36	VAL	C-N	6.55	1.40	1.33
1	4Q	166	ASP	N-CA	-6.55	1.38	1.46
1	5a	117	TRP	C-O	-6.55	1.16	1.24
1	61	205	LEU	C-N	6.55	1.43	1.33
1	64	73	ILE	N-CA	6.55	1.54	1.46
1	6V	115	ILE	N-CA	-6.55	1.37	1.46
1	6Y	87	HIS	ND1-CE1	6.55	1.39	1.32
1	7A	164	TYR	CA-CB	6.55	1.63	1.53
1	85	176	GLN	CA-C	6.55	1.61	1.53
1	8L	81	ASP	CA-C	6.55	1.61	1.52
1	95	130	TYR	CA-C	6.55	1.61	1.52
1	9Z	101	GLY	N-CA	6.55	1.54	1.45
1	a9	133	TRP	CA-CB	6.55	1.64	1.53
1	bx	120	HIS	ND1-CE1	6.55	1.39	1.32
1	bM	57	ASN	CA-CB	6.55	1.63	1.53
1	ck	213	GLU	CA-CB	6.55	1.63	1.53
1	cm	227	LYS	CA-C	-6.55	1.44	1.52
1	d6	62	HIS	C-N	6.55	1.42	1.33
1	dm	175	GLU	N-CA	-6.55	1.37	1.46
1	dX	113	GLU	CA-CB	6.55	1.63	1.53
1	el	107	THR	CA-C	-6.55	1.44	1.52
1	eu	211	LEU	C-N	6.55	1.42	1.33
1	eI	48	THR	CA-C	-6.55	1.44	1.52
1	f8	46	GLY	N-CA	6.55	1.55	1.45
1	fZ	178	SER	CA-C	-6.55	1.44	1.52
1	E	29	GLU	CA-C	6.55	1.61	1.52
1	hJ	223	GLY	C-N	6.55	1.41	1.33
1	i4	168	PHE	CA-CB	6.55	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jA	143	ARG	C-N	6.55	1.42	1.33
1	kD	168	PHE	CA-C	6.55	1.61	1.52
1	lq	23	TRP	NE1-CE2	-6.55	1.30	1.37
1	2B	36	VAL	C-N	6.55	1.40	1.33
1	3H	144	MET	N-CA	6.55	1.54	1.46
1	60	37	ILE	CA-C	6.55	1.60	1.52
1	6h	99	PRO	CA-C	-6.55	1.44	1.52
1	7t	82	ARG	CD-NE	6.55	1.55	1.46
1	8s	45	GLU	CA-C	6.55	1.60	1.52
1	9w	213	GLU	CA-C	-6.55	1.44	1.52
1	9V	204	ALA	CA-C	-6.55	1.44	1.52
1	al	163	ASP	CA-CB	6.55	1.64	1.53
1	bc	38	PRO	C-N	-6.55	1.25	1.33
1	bL	129	ILE	C-N	6.55	1.42	1.33
1	bY	53	ASN	N-CA	-6.55	1.38	1.46
1	dt	130	TYR	CA-CB	6.55	1.63	1.53
1	dQ	123	PRO	C-N	6.55	1.39	1.33
1	7	88	ALA	N-CA	-6.55	1.38	1.46
1	gi	5	ASN	CA-C	6.55	1.60	1.53
1	h9	32	PHE	CA-CB	6.55	1.61	1.52
1	1I	18	ARG	NE-CZ	-6.55	1.25	1.33
1	hz	168	PHE	CG-CD2	6.55	1.52	1.38
1	i8	190	LEU	C-N	6.55	1.41	1.33
1	j9	168	PHE	CA-CB	6.55	1.63	1.53
1	1V	129	ILE	CA-C	-6.55	1.44	1.52
1	jt	165	VAL	CA-C	6.55	1.61	1.52
1	k7	144	MET	CA-CB	6.55	1.63	1.53
1	23	145	TYR	N-CA	-6.55	1.38	1.46
1	2H	120	HIS	CG-CD2	-6.55	1.28	1.35
1	35	23	TRP	NE1-CE2	6.55	1.44	1.37
1	39	211	LEU	CA-CB	6.55	1.63	1.53
1	3I	71	GLU	CA-CB	6.55	1.63	1.53
1	61	84	HIS	N-CA	-6.55	1.40	1.46
1	62	63	GLN	CA-C	-6.55	1.44	1.52
1	6c	125	PRO	C-N	6.55	1.42	1.33
1	6c	132	ARG	CA-CB	6.55	1.63	1.53
1	6s	219	GLN	N-CA	6.55	1.54	1.46
1	6P	190	LEU	CA-CB	6.55	1.63	1.53
1	7p	191	VAL	N-CA	-6.55	1.37	1.46
1	7D	61	GLY	N-CA	6.55	1.54	1.45
1	7K	98	GLU	C-N	6.55	1.40	1.33
1	8N	62	HIS	CA-C	-6.55	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9g	202	LEU	N-CA	-6.55	1.38	1.46
1	9H	67	GLN	N-CA	6.55	1.54	1.46
1	9U	41	SER	CA-CB	6.55	1.63	1.53
1	am	140	LYS	CA-C	6.55	1.61	1.52
1	ay	105	ALA	CA-C	6.55	1.61	1.52
1	b1	211	LEU	N-CA	-6.55	1.38	1.46
1	bt	86	VAL	N-CA	-6.55	1.38	1.46
1	bV	127	GLY	CA-C	-6.55	1.43	1.51
1	cI	66	MET	N-CA	6.55	1.54	1.46
1	cO	100	ARG	CA-C	-6.55	1.43	1.53
1	dj	142	VAL	CA-C	-6.55	1.43	1.52
1	dn	116	GLY	C-N	6.55	1.42	1.33
1	dr	65	ALA	CA-C	6.55	1.61	1.52
1	em	167	ARG	C-N	6.55	1.42	1.33
1	eT	107	THR	CA-C	-6.55	1.46	1.53
1	eW	37	ILE	CA-CB	-6.55	1.50	1.54
1	fi	23	TRP	NE1-CE2	6.55	1.44	1.37
1	fz	80	TRP	CA-C	-6.55	1.43	1.52
1	g1	170	LYS	C-O	-6.55	1.16	1.24
1	b	213	GLU	N-CA	-6.55	1.38	1.46
1	w	104	ILE	CA-C	6.55	1.60	1.52
1	ht	84	HIS	C-O	-6.54	1.17	1.24
1	1R	10	MET	N-CA	-6.54	1.38	1.46
1	iN	68	MET	CA-C	6.54	1.61	1.52
1	jh	154	ARG	CA-C	-6.54	1.44	1.52
1	js	37	ILE	CA-C	6.54	1.58	1.52
1	35	50	GLN	CA-C	6.54	1.61	1.52
1	4V	87	HIS	ND1-CE1	6.54	1.39	1.32
1	5l	194	ALA	CA-C	6.54	1.61	1.52
1	5m	219	GLN	N-CA	6.54	1.54	1.46
1	5y	84	HIS	ND1-CE1	6.54	1.39	1.32
1	5H	208	ALA	CA-C	6.54	1.61	1.53
1	6v	104	ILE	N-CA	-6.54	1.38	1.46
1	7p	45	GLU	CA-C	6.54	1.61	1.52
1	9r	199	LYS	C-N	6.54	1.42	1.34
1	ak	114	GLN	C-N	6.54	1.41	1.34
1	dw	37	ILE	N-CA	-6.54	1.38	1.46
1	dU	4	GLN	CA-C	-6.54	1.44	1.52
1	f6	132	ARG	CA-CB	6.54	1.63	1.53
1	fO	184	TRP	CA-C	6.54	1.61	1.52
1	A	86	VAL	CA-CB	-6.54	1.47	1.54
1	gp	72	THR	CA-C	-6.54	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gy	149	SER	CA-CB	6.54	1.64	1.53
1	h7	96	MET	CA-CB	6.54	1.63	1.53
1	ho	26	VAL	C-N	6.54	1.41	1.33
1	1J	215	MET	C-N	6.54	1.42	1.33
1	hW	137	GLY	N-CA	6.54	1.53	1.45
1	ir	173	ARG	CD-NE	6.54	1.55	1.46
1	j4	24	VAL	N-CA	-6.54	1.39	1.46
1	ja	120	HIS	C-N	6.54	1.43	1.33
1	jv	117	TRP	CA-C	6.54	1.61	1.52
1	kg	37	ILE	CA-C	6.54	1.60	1.52
1	kg	52	LEU	N-CA	-6.54	1.37	1.46
1	kF	52	LEU	N-CA	6.54	1.54	1.46
1	lb	130	TYR	CA-CB	-6.54	1.43	1.53
1	28	67	GLN	N-CA	6.54	1.54	1.46
1	lG	62	HIS	CA-CB	6.54	1.64	1.53
1	2m	75	GLU	CA-CB	6.54	1.64	1.53
1	3A	100	ARG	CD-NE	6.54	1.55	1.46
1	3H	100	ARG	CA-CB	6.54	1.62	1.53
1	3Z	116	GLY	CA-C	-6.54	1.44	1.52
1	4i	219	GLN	C-N	6.54	1.41	1.33
1	4w	23	TRP	C-N	6.54	1.42	1.34
1	5f	2	ILE	N-CA	-6.54	1.38	1.46
1	5p	197	ASP	C-N	6.54	1.42	1.33
1	60	124	ILE	N-CA	-6.54	1.41	1.46
1	6D	124	ILE	CB-CG1	6.54	1.66	1.53
1	7A	102	SER	CA-CB	6.54	1.64	1.53
1	7B	184	TRP	CD2-CE3	6.54	1.50	1.40
1	7I	184	TRP	NE1-CE2	-6.54	1.30	1.37
1	8d	14	ALA	C-N	6.54	1.41	1.33
1	8E	169	TYR	CA-CB	6.54	1.63	1.53
1	8Y	225	GLY	CA-C	-6.54	1.45	1.52
1	ak	96	MET	C-N	6.54	1.42	1.33
1	13	189	LEU	C-O	-6.54	1.16	1.24
1	bO	142	VAL	C-O	-6.54	1.16	1.24
1	cC	185	MET	CA-C	6.54	1.61	1.52
1	cE	152	ASP	CA-C	-6.54	1.44	1.53
1	dD	142	VAL	CA-C	6.54	1.62	1.52
1	eS	32	PHE	C-N	6.54	1.40	1.33
1	fv	180	GLU	N-CA	-6.54	1.36	1.46
1	gi	152	ASP	C-N	6.54	1.42	1.33
1	gs	42	ALA	CA-CB	6.54	1.63	1.53
1	h9	57	ASN	C-N	6.54	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i9	158	LYS	CA-CB	6.54	1.63	1.53
1	ij	165	VAL	CA-C	6.54	1.61	1.52
1	iG	100	ARG	CD-NE	6.54	1.55	1.46
1	1R	156	GLY	N-CA	6.54	1.53	1.44
1	kU	188	THR	CA-C	6.54	1.61	1.52
1	29	24	VAL	C-N	6.54	1.42	1.33
1	2w	39	MET	C-N	6.54	1.42	1.33
1	2V	210	THR	CA-CB	-6.54	1.42	1.53
1	3l	181	VAL	C-N	6.54	1.42	1.33
1	3v	163	ASP	N-CA	-6.54	1.38	1.46
1	4o	167	ARG	N-CA	-6.54	1.38	1.46
1	64	219	GLN	CA-C	6.54	1.61	1.53
1	6k	12	HIS	N-CA	-6.54	1.37	1.46
1	6w	72	THR	CA-C	-6.54	1.44	1.52
1	6C	132	ARG	CZ-NH2	-6.54	1.25	1.33
1	6I	169	TYR	CA-C	-6.54	1.44	1.52
1	70	230	VAL	CA-CB	6.54	1.61	1.54
1	7p	143	ARG	CZ-NH2	-6.54	1.25	1.33
1	8f	100	ARG	CD-NE	6.54	1.55	1.46
1	9Q	50	GLN	CA-CB	6.54	1.63	1.53
1	ag	146	SER	CA-CB	6.54	1.65	1.53
1	aq	169	TYR	CA-CB	6.54	1.63	1.53
1	cy	97	ARG	CD-NE	6.54	1.55	1.46
1	cJ	68	MET	CA-CB	6.54	1.63	1.53
1	dC	8	GLY	C-N	6.54	1.42	1.33
1	fn	46	GLY	CA-C	-6.54	1.42	1.51
1	fw	125	PRO	CA-CB	6.54	1.61	1.53
1	fH	193	ASN	C-N	6.54	1.42	1.33
1	q	18	ARG	CD-NE	6.54	1.55	1.46
1	C	40	PHE	C-N	6.54	1.42	1.33
1	E	98	GLU	C-N	6.54	1.42	1.33
1	I	140	LYS	C-O	-6.54	1.15	1.24
1	gr	47	ALA	N-CA	6.54	1.54	1.46
1	gz	106	GLY	C-N	-6.54	1.25	1.33
1	hj	25	LYS	CA-C	6.54	1.61	1.52
1	1J	100	ARG	C-N	6.54	1.42	1.33
1	hT	165	VAL	C-N	6.54	1.42	1.33
1	i5	100	ARG	CZ-NH2	-6.54	1.25	1.33
1	ju	222	GLY	CA-C	-6.54	1.42	1.51
1	jF	100	ARG	C-N	6.54	1.41	1.33
1	kL	93	PRO	CA-C	6.54	1.60	1.52
1	la	84	HIS	CE1-NE2	-6.54	1.26	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2w	110	THR	CA-C	-6.54	1.44	1.53
1	3w	50	GLN	CA-C	6.54	1.61	1.52
1	4J	226	HIS	ND1-CE1	6.54	1.39	1.32
1	7O	71	GLU	CA-CB	6.54	1.63	1.53
1	8e	105	ALA	N-CA	6.54	1.54	1.46
1	8l	141	ILE	N-CA	6.54	1.54	1.46
1	9h	138	LEU	CA-CB	6.54	1.63	1.53
1	ck	184	TRP	CA-CB	6.54	1.63	1.53
1	dJ	199	LYS	CA-CB	6.54	1.63	1.53
1	fA	36	VAL	CA-C	-6.54	1.44	1.52
1	fR	24	VAL	CA-CB	-6.54	1.46	1.54
1	fY	137	GLY	C-N	6.54	1.42	1.33
1	gt	216	THR	CA-C	6.54	1.61	1.52
1	gB	81	ASP	CA-C	6.54	1.61	1.52
1	hi	140	LYS	CA-CB	6.54	1.63	1.53
1	hm	64	ALA	CA-C	6.54	1.61	1.52
1	hm	146	SER	CA-CB	-6.54	1.45	1.53
1	1N	98	GLU	CA-C	6.54	1.60	1.53
1	jV	131	LYS	C-N	6.54	1.42	1.33
1	jY	11	VAL	CA-CB	-6.54	1.46	1.54
1	k8	136	LEU	CA-C	-6.54	1.44	1.52
1	20	68	MET	CA-C	6.54	1.61	1.52
1	20	109	SER	C-N	6.54	1.42	1.33
1	kf	202	LEU	CA-C	6.54	1.61	1.52
1	kK	198	CYS	CA-C	-6.54	1.44	1.52
1	kP	73	ILE	CA-CB	6.54	1.62	1.54
1	ly	48	THR	CA-CB	6.54	1.61	1.53
1	2e	155	GLN	CA-C	-6.54	1.43	1.52
1	2P	40	PHE	CA-CB	6.54	1.64	1.53
1	4A	91	ILE	CA-C	6.54	1.60	1.52
1	4S	210	THR	CA-CB	6.54	1.62	1.53
1	59	18	ARG	NE-CZ	-6.54	1.25	1.33
1	7s	165	VAL	C-O	-6.54	1.16	1.24
1	88	112	GLN	CA-CB	6.54	1.64	1.53
1	8J	84	HIS	N-CA	-6.54	1.39	1.46
1	8L	135	ILE	CA-C	6.54	1.60	1.52
1	9h	230	VAL	CA-CB	-6.54	1.47	1.54
1	9R	188	THR	N-CA	6.54	1.54	1.46
1	9T	42	ALA	N-CA	-6.54	1.37	1.46
1	ah	94	GLY	N-CA	6.54	1.54	1.45
1	bh	43	LEU	CA-CB	6.54	1.64	1.53
1	bq	188	THR	CA-C	6.54	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bD	125	PRO	CA-CB	-6.54	1.49	1.53
1	bG	155	GLN	CA-CB	6.54	1.64	1.53
1	dg	202	LEU	CA-C	6.54	1.61	1.52
1	dq	129	ILE	CA-CB	-6.54	1.46	1.54
1	el	198	CYS	CA-C	6.54	1.61	1.52
1	B	63	GLN	CA-CB	6.54	1.64	1.53
1	T	124	ILE	N-CA	-6.54	1.41	1.46
1	6	5	ASN	N-CA	-6.54	1.38	1.45
1	gx	140	LYS	CA-CB	6.54	1.63	1.53
1	iy	113	GLU	N-CA	-6.54	1.38	1.46
1	k5	97	ARG	CD-NE	6.54	1.55	1.46
1	29	112	GLN	C-N	6.54	1.42	1.33
1	lD	164	TYR	C-N	6.54	1.42	1.33
1	3X	130	TYR	C-N	6.54	1.43	1.34
1	4R	91	ILE	CA-CB	6.54	1.61	1.54
1	4T	54	THR	C-N	6.54	1.42	1.33
1	6Y	218	CYS	CA-C	6.54	1.61	1.53
1	7h	38	PRO	CA-CB	-6.54	1.44	1.53
1	7P	18	ARG	CD-NE	6.54	1.55	1.46
1	9z	172	LEU	N-CA	-6.54	1.38	1.46
1	aI	57	ASN	N-CA	6.54	1.54	1.46
1	aZ	37	ILE	CA-CB	6.54	1.57	1.54
1	bC	179	GLN	CA-CB	6.54	1.63	1.53
1	cr	221	VAL	CA-CB	-6.54	1.46	1.54
1	dA	219	GLN	CA-C	6.54	1.61	1.52
1	e	170	LYS	CA-CB	6.54	1.63	1.53
1	3	8	GLY	CA-C	-6.54	1.45	1.52
1	gF	81	ASP	CA-CB	6.54	1.63	1.53
1	hM	214	MET	C-N	6.54	1.42	1.33
1	hT	100	ARG	CA-C	6.54	1.62	1.53
1	it	175	GLU	N-CA	-6.54	1.38	1.46
1	iv	133	TRP	CA-CB	6.54	1.63	1.53
1	iF	12	HIS	ND1-CE1	6.54	1.39	1.32
1	jp	29	GLU	N-CA	6.54	1.54	1.46
1	jR	161	PHE	N-CA	-6.54	1.38	1.46
1	k0	110	THR	N-CA	6.54	1.54	1.45
1	ks	151	LEU	N-CA	-6.54	1.38	1.46
1	kN	54	THR	N-CA	6.54	1.54	1.46
1	lK	12	HIS	CG-ND1	-6.54	1.31	1.38
1	2l	61	GLY	N-CA	6.54	1.55	1.45
1	2J	3	VAL	CA-CB	-6.54	1.46	1.54
1	2Z	181	VAL	CA-C	-6.54	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	30	134	ILE	CA-C	6.54	1.61	1.52
1	3A	88	ALA	CA-CB	6.54	1.63	1.53
1	3B	166	ASP	N-CA	6.54	1.54	1.46
1	3Q	57	ASN	N-CA	-6.54	1.37	1.46
1	48	70	LYS	N-CA	-6.54	1.38	1.46
1	4B	164	TYR	N-CA	-6.54	1.38	1.46
1	4R	190	LEU	CA-CB	6.54	1.63	1.53
1	5G	118	MET	N-CA	-6.54	1.38	1.46
1	5N	70	LYS	CA-CB	6.54	1.63	1.53
1	71	155	GLN	CA-C	-6.54	1.44	1.52
1	7k	2	ILE	CA-CB	6.54	1.61	1.54
1	9t	120	HIS	CB-CG	-6.54	1.41	1.50
1	9Z	3	VAL	CA-CB	-6.54	1.46	1.54
1	a8	56	LEU	CA-C	6.54	1.61	1.52
1	aw	98	GLU	CA-C	6.54	1.60	1.52
1	b0	39	MET	CA-CB	6.54	1.63	1.53
1	bl	170	LYS	CA-C	-6.54	1.44	1.52
1	ca	48	THR	CA-CB	6.54	1.61	1.53
1	f9	226	HIS	ND1-CE1	6.54	1.39	1.32
1	fD	39	MET	CA-C	6.54	1.61	1.52
1	g0	226	HIS	CA-C	-6.54	1.44	1.52
1	g3	4	GLN	CA-C	6.54	1.61	1.52
1	n	115	ILE	CA-C	-6.54	1.44	1.52
1	M	37	ILE	CA-CB	-6.54	1.45	1.54
1	gw	125	PRO	CA-CB	6.53	1.57	1.53
1	gI	23	TRP	CA-C	6.53	1.61	1.52
1	hr	41	SER	CA-C	-6.53	1.44	1.52
1	iK	1	PRO	N-CA	6.53	1.56	1.47
1	iT	72	THR	N-CA	-6.53	1.38	1.46
1	jc	178	SER	CA-CB	6.53	1.63	1.53
1	k8	154	ARG	CD-NE	6.53	1.55	1.46
1	2I	123	PRO	CA-CB	6.53	1.62	1.53
1	2Y	230	VAL	CA-C	-6.53	1.45	1.53
1	4h	144	MET	N-CA	-6.53	1.38	1.46
1	5t	172	LEU	C-N	6.53	1.41	1.33
1	5H	30	LYS	N-CA	6.53	1.52	1.47
1	6v	120	HIS	CA-CB	6.53	1.63	1.53
1	6J	162	ARG	CA-CB	6.53	1.63	1.53
1	7r	181	VAL	CA-C	6.53	1.61	1.52
1	8h	190	LEU	N-CA	-6.53	1.38	1.46
1	8z	154	ARG	N-CA	-6.53	1.37	1.45
1	8R	18	ARG	CZ-NH2	-6.53	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Y	222	GLY	CA-C	-6.53	1.42	1.51
1	9U	181	VAL	CA-C	-6.53	1.44	1.52
1	aG	23	TRP	NE1-CE2	6.53	1.44	1.37
1	14	32	PHE	CA-CB	6.53	1.61	1.53
1	aV	152	ASP	CA-C	6.53	1.60	1.52
1	c3	177	ALA	N-CA	-6.53	1.38	1.46
1	cc	194	ALA	CA-CB	6.53	1.64	1.53
1	dc	131	LYS	CA-CB	6.53	1.63	1.53
1	do	202	LEU	C-N	6.53	1.42	1.33
1	ek	82	ARG	CD-NE	6.53	1.55	1.46
1	g6	74	ASN	N-CA	6.53	1.54	1.46
1	iM	165	VAL	C-N	6.53	1.42	1.33
1	k2	41	SER	N-CA	6.53	1.54	1.46
1	kk	10	MET	CA-CB	6.53	1.63	1.53
1	l0	192	GLN	N-CA	-6.53	1.38	1.46
1	2b	74	ASN	CA-C	6.53	1.61	1.52
1	2b	77	ALA	C-O	6.53	1.31	1.24
1	2W	62	HIS	C-N	6.53	1.43	1.34
1	3E	176	GLN	CA-C	6.53	1.61	1.52
1	3Q	198	CYS	C-O	-6.53	1.16	1.24
1	4U	138	LEU	CA-CB	6.53	1.63	1.53
1	57	3	VAL	N-CA	-6.53	1.38	1.46
1	5Q	36	VAL	CA-C	-6.53	1.44	1.52
1	78	117	TRP	NE1-CE2	-6.53	1.30	1.37
1	7g	77	ALA	CA-C	-6.53	1.44	1.52
1	8c	167	ARG	CZ-NH2	-6.53	1.25	1.33
1	8n	128	GLU	C-N	6.53	1.42	1.33
1	9Q	229	ARG	CD-NE	6.53	1.55	1.46
1	a5	137	GLY	CA-C	-6.53	1.44	1.52
1	aa	97	ARG	NE-CZ	6.53	1.40	1.33
1	aW	56	LEU	CA-CB	6.53	1.63	1.53
1	bO	91	ILE	C-N	6.53	1.43	1.33
1	dq	210	THR	CA-C	6.53	1.61	1.52
1	dN	37	ILE	CA-C	6.53	1.59	1.52
1	fM	104	ILE	CA-C	-6.53	1.44	1.52
1	g7	80	TRP	N-CA	6.53	1.54	1.46
1	t	81	ASP	CA-C	-6.53	1.43	1.52
1	2	188	THR	CA-C	6.53	1.57	1.52
1	Q	120	HIS	ND1-CE1	6.53	1.39	1.32
1	gF	21	ASN	CA-C	6.53	1.61	1.52
1	hA	213	GLU	CA-CB	6.53	1.63	1.53
1	hX	35	GLU	N-CA	-6.53	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ie	16	SER	CA-C	6.53	1.60	1.52
1	iu	14	ALA	CA-CB	-6.53	1.42	1.53
1	kH	113	GLU	N-CA	-6.53	1.38	1.46
1	li	1	PRO	N-CD	6.53	1.56	1.47
1	2a	85	PRO	N-CA	-6.53	1.39	1.47
1	2p	48	THR	CB-OG1	-6.53	1.33	1.43
1	2K	173	ARG	CD-NE	6.53	1.55	1.46
1	4X	226	HIS	ND1-CE1	6.53	1.39	1.32
1	5s	62	HIS	CA-CB	6.53	1.63	1.53
1	6d	21	ASN	CA-C	6.53	1.61	1.52
1	6d	32	PHE	CA-CB	6.53	1.61	1.52
1	6d	195	ASN	CA-C	-6.53	1.46	1.53
1	6O	87	HIS	CA-C	6.53	1.61	1.53
1	7m	69	LEU	N-CA	6.53	1.54	1.46
1	7s	20	LEU	C-N	6.53	1.43	1.33
1	7H	22	ALA	CA-C	6.53	1.61	1.52
1	7R	218	CYS	CA-C	6.53	1.61	1.52
1	8e	207	PRO	N-CD	-6.53	1.38	1.47
1	8f	91	ILE	CA-CB	6.53	1.60	1.54
1	9h	215	MET	C-N	6.53	1.43	1.34
1	9p	84	HIS	ND1-CE1	6.53	1.39	1.32
1	ab	25	LYS	CA-C	6.53	1.61	1.52
1	ag	226	HIS	ND1-CE1	6.53	1.39	1.32
1	b3	150	ILE	C-N	6.53	1.42	1.33
1	bY	62	HIS	CE1-NE2	6.53	1.39	1.32
1	c3	220	GLY	C-N	6.53	1.42	1.33
1	ch	122	PRO	CA-CB	6.53	1.65	1.53
1	dR	168	PHE	CA-CB	6.53	1.64	1.53
1	eh	114	GLN	CA-CB	6.53	1.63	1.53
1	eZ	4	GLN	CA-CB	6.53	1.64	1.53
1	s	12	HIS	CA-C	-6.53	1.44	1.52
1	3	216	THR	CA-C	6.53	1.61	1.52
1	gg	83	LEU	CA-CB	6.53	1.63	1.53
1	gm	132	ARG	CA-C	6.53	1.61	1.52
1	gs	134	ILE	N-CA	-6.53	1.38	1.46
1	hW	95	GLN	CA-CB	6.53	1.63	1.53
1	i7	50	GLN	N-CA	6.53	1.54	1.46
1	iP	154	ARG	N-CA	6.53	1.54	1.45
1	j1	126	VAL	N-CA	6.53	1.54	1.46
1	1Y	47	ALA	C-N	6.53	1.42	1.33
1	2h	153	ILE	CA-C	6.53	1.59	1.52
1	2M	174	ALA	C-N	6.53	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3G	145	TYR	C-N	6.53	1.42	1.33
1	4e	6	LEU	CA-CB	6.53	1.64	1.53
1	5o	209	ALA	C-N	6.53	1.42	1.33
1	5V	10	MET	N-CA	-6.53	1.37	1.46
1	6C	73	ILE	CA-C	-6.53	1.44	1.52
1	70	208	ALA	N-CA	-6.53	1.37	1.46
1	98	162	ARG	CA-CB	6.53	1.64	1.53
1	9M	149	SER	CA-CB	6.53	1.64	1.53
1	9N	200	THR	C-N	-6.53	1.25	1.33
1	a1	31	ALA	N-CA	-6.53	1.37	1.46
1	ab	90	PRO	CA-CB	6.53	1.62	1.53
1	au	51	ASP	CA-C	6.53	1.61	1.52
1	bV	90	PRO	CA-CB	6.53	1.63	1.53
1	co	72	THR	C-N	6.53	1.42	1.33
1	cK	189	LEU	CA-CB	6.53	1.63	1.53
1	1v	188	THR	N-CA	6.53	1.54	1.46
1	g0	132	ARG	N-CA	6.53	1.53	1.46
1	o	176	GLN	C-N	6.53	1.42	1.33
1	L	44	SER	C-N	6.53	1.42	1.33
1	h1	217	ALA	N-CA	-6.53	1.37	1.45
1	h5	162	ARG	CD-NE	6.53	1.55	1.46
1	hY	123	PRO	N-CA	6.53	1.54	1.46
1	if	207	PRO	CA-C	6.53	1.60	1.52
1	iS	102	SER	CA-CB	6.53	1.65	1.53
1	j2	183	ASN	N-CA	6.53	1.54	1.46
1	jg	29	GLU	CA-C	-6.53	1.44	1.52
1	k4	106	GLY	C-N	6.53	1.42	1.33
1	kr	226	HIS	C-N	6.53	1.42	1.33
1	2N	23	TRP	CA-CB	6.53	1.63	1.53
1	2U	197	ASP	CA-CB	6.53	1.63	1.53
1	4B	2	ILE	C-O	-6.53	1.17	1.24
1	5Y	7	GLN	CA-C	6.53	1.61	1.53
1	67	23	TRP	N-CA	6.53	1.54	1.46
1	6a	53	ASN	CA-CB	6.53	1.63	1.53
1	6d	23	TRP	C-N	-6.53	1.25	1.34
1	7N	87	HIS	ND1-CE1	6.53	1.39	1.32
1	8W	227	LYS	CA-C	-6.53	1.44	1.52
1	9g	62	HIS	CE1-NE2	6.53	1.39	1.32
1	9F	51	ASP	N-CA	-6.53	1.38	1.46
1	ab	204	ALA	CA-C	-6.53	1.44	1.52
1	ce	171	THR	C-O	-6.53	1.16	1.24
1	ci	74	ASN	CA-CB	6.53	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ck	51	ASP	N-CA	6.53	1.54	1.46
1	eh	175	GLU	CA-CB	6.53	1.63	1.53
1	eC	71	GLU	CA-C	6.53	1.61	1.52
1	eV	124	ILE	CB-CG1	6.53	1.66	1.53
1	d	206	GLY	C-N	6.53	1.42	1.34
1	m	136	LEU	C-N	6.53	1.41	1.33
1	gf	189	LEU	C-N	6.53	1.42	1.33
1	gu	171	THR	CA-C	-6.53	1.44	1.52
1	gC	18	ARG	CD-NE	6.53	1.55	1.46
1	hw	160	PRO	N-CA	-6.53	1.40	1.46
1	hM	84	HIS	ND1-CE1	6.53	1.39	1.32
1	iI	80	TRP	NE1-CE2	-6.53	1.30	1.37
1	iL	83	LEU	CA-C	-6.53	1.45	1.52
1	iQ	14	ALA	CA-C	6.53	1.61	1.52
1	j0	12	HIS	CG-CD2	-6.53	1.28	1.35
1	1U	117	TRP	CA-CB	6.53	1.64	1.53
1	jB	166	ASP	C-N	6.53	1.42	1.33
1	2b	73	ILE	CA-CB	6.53	1.62	1.54
1	31	71	GLU	CA-CB	6.53	1.63	1.53
1	3y	23	TRP	CA-CB	6.53	1.63	1.53
1	3U	198	CYS	CA-C	-6.53	1.44	1.52
1	46	165	VAL	CA-C	6.53	1.61	1.52
1	57	97	ARG	CA-C	6.53	1.61	1.52
1	5F	155	GLN	CA-C	6.53	1.60	1.52
1	5X	139	ASN	CA-C	6.53	1.61	1.52
1	7R	106	GLY	CA-C	-6.53	1.42	1.51
1	7W	23	TRP	CA-CB	6.53	1.63	1.53
1	88	165	VAL	CA-C	-6.53	1.44	1.52
1	8f	207	PRO	N-CA	-6.53	1.39	1.47
1	99	229	ARG	N-CA	-6.53	1.38	1.46
1	9p	226	HIS	CE1-NE2	6.53	1.39	1.32
1	9s	51	ASP	CA-CB	6.53	1.63	1.53
1	bb	170	LYS	C-N	6.53	1.42	1.33
1	bY	98	GLU	CA-CB	6.53	1.63	1.53
1	d8	166	ASP	CA-C	6.53	1.61	1.52
1	da	98	GLU	C-N	-6.53	1.26	1.33
1	dt	184	TRP	CA-C	6.53	1.61	1.52
1	dz	204	ALA	C-N	6.53	1.42	1.33
1	dF	202	LEU	CA-CB	6.53	1.63	1.53
1	e7	103	ASP	CA-CB	6.53	1.64	1.53
1	el	66	MET	C-N	6.53	1.42	1.33
1	fp	12	HIS	CE1-NE2	6.53	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fw	79	GLU	N-CA	-6.53	1.38	1.46
1	fR	161	PHE	CA-C	6.53	1.61	1.52
1	2	32	PHE	CA-C	-6.53	1.43	1.52
1	y	106	GLY	CA-C	6.53	1.60	1.51
1	1N	56	LEU	N-CA	6.52	1.54	1.46
1	iM	146	SER	CA-CB	6.52	1.60	1.53
1	1Z	24	VAL	CA-C	6.52	1.61	1.52
1	k4	44	SER	CA-CB	6.52	1.65	1.53
1	kx	137	GLY	CA-C	6.52	1.60	1.51
1	kZ	116	GLY	CA-C	-6.52	1.42	1.51
1	lc	98	GLU	C-N	6.52	1.42	1.33
1	4B	125	PRO	CA-CB	6.52	1.57	1.53
1	5c	8	GLY	N-CA	6.52	1.54	1.45
1	6d	92	GLU	C-N	6.52	1.41	1.34
1	11	197	ASP	CA-CB	6.52	1.63	1.53
1	aJ	226	HIS	CG-ND1	-6.52	1.31	1.38
1	aO	173	ARG	CA-CB	6.52	1.63	1.53
1	cc	133	TRP	CA-CB	6.52	1.63	1.53
1	dG	38	PRO	CA-C	-6.52	1.43	1.52
1	dI	133	TRP	NE1-CE2	6.52	1.44	1.37
1	eo	218	CYS	CA-CB	6.52	1.63	1.53
1	T	71	GLU	CA-C	-6.52	1.44	1.52
1	gj	74	ASN	CA-C	6.52	1.61	1.52
1	gn	166	ASP	CA-C	6.52	1.61	1.52
1	gz	167	ARG	CD-NE	6.52	1.55	1.46
1	1F	229	ARG	N-CA	-6.52	1.38	1.46
1	hj	90	PRO	CA-C	6.52	1.61	1.52
1	hx	88	ALA	CA-C	6.52	1.61	1.53
1	iH	190	LEU	C-N	6.52	1.41	1.33
1	iR	45	GLU	CA-C	-6.52	1.44	1.52
1	j7	7	GLN	CA-C	6.52	1.60	1.52
1	jq	112	GLN	CA-C	6.52	1.61	1.52
1	jE	169	TYR	CA-CB	6.52	1.63	1.53
1	jZ	87	HIS	CA-C	-6.52	1.44	1.52
1	ks	25	LYS	C-N	6.52	1.42	1.33
1	38	168	PHE	CA-CB	6.52	1.63	1.53
1	3d	12	HIS	CE1-NE2	-6.52	1.26	1.32
1	56	40	PHE	CA-CB	6.52	1.63	1.53
1	5k	24	VAL	N-CA	-6.52	1.39	1.46
1	6L	162	ARG	CA-C	-6.52	1.44	1.52
1	7l	223	GLY	CA-C	6.52	1.61	1.51
1	aD	98	GLU	CA-CB	6.52	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aI	10	MET	CA-C	6.52	1.61	1.52
1	aP	25	LYS	C-N	6.52	1.42	1.33
1	aW	229	ARG	CD-NE	6.52	1.55	1.46
1	bu	128	GLU	CA-CB	6.52	1.63	1.53
1	bA	120	HIS	CG-ND1	6.52	1.45	1.38
1	dz	90	PRO	CA-CB	6.52	1.63	1.53
1	eB	200	THR	CA-C	-6.52	1.44	1.52
1	1s	182	LYS	CA-CB	6.52	1.63	1.53
1	fx	4	GLN	CA-CB	6.52	1.63	1.53
1	1z	224	PRO	N-CA	6.52	1.55	1.47
1	J	12	HIS	ND1-CE1	6.52	1.39	1.32
1	kt	36	VAL	CA-CB	6.52	1.61	1.54
1	kA	101	GLY	CA-C	-6.52	1.44	1.52
1	lk	226	HIS	CA-CB	6.52	1.63	1.53
1	2h	221	VAL	N-CA	6.52	1.54	1.46
1	4r	132	ARG	N-CA	-6.52	1.38	1.46
1	5G	171	THR	C-N	6.52	1.42	1.33
1	6x	181	VAL	CA-C	-6.52	1.44	1.52
1	6I	87	HIS	ND1-CE1	6.52	1.39	1.32
1	7c	189	LEU	C-N	6.52	1.42	1.33
1	7d	201	ILE	CB-CG1	6.52	1.66	1.53
1	8o	172	LEU	CA-C	6.52	1.61	1.52
1	8t	228	ALA	CA-CB	6.52	1.64	1.53
1	aA	228	ALA	CA-C	-6.52	1.44	1.52
1	aG	29	GLU	CA-CB	6.52	1.63	1.53
1	cc	62	HIS	CE1-NE2	6.52	1.39	1.32
1	dO	80	TRP	CA-CB	6.52	1.63	1.53
1	e3	130	TYR	CA-CB	6.52	1.63	1.53
1	eU	154	ARG	CA-C	6.52	1.60	1.52
1	fC	110	THR	CA-CB	-6.52	1.43	1.53
1	R	184	TRP	CA-CB	6.52	1.64	1.53
1	1C	212	GLU	CA-CB	6.52	1.63	1.53
1	hi	146	SER	CA-C	6.52	1.61	1.52
1	i8	152	ASP	C-N	6.52	1.42	1.33
1	if	52	LEU	CA-CB	6.52	1.63	1.53
1	1S	82	ARG	CZ-NH2	-6.52	1.25	1.33
1	iX	173	ARG	CD-NE	6.52	1.55	1.46
1	k3	167	ARG	CA-CB	6.52	1.63	1.53
1	k5	55	MET	CA-C	6.52	1.61	1.52
1	kc	53	ASN	C-N	6.52	1.42	1.33
1	kw	193	ASN	CA-CB	6.52	1.64	1.53
1	kF	114	GLN	N-CA	-6.52	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	25	14	ALA	N-CA	-6.52	1.38	1.46
1	kY	93	PRO	N-CA	-6.52	1.39	1.47
1	lm	76	GLU	CA-C	-6.52	1.44	1.52
1	2A	123	PRO	N-CD	-6.52	1.38	1.47
1	3y	81	ASP	C-N	6.52	1.42	1.33
1	4l	117	TRP	CA-CB	6.52	1.63	1.53
1	4x	23	TRP	NE1-CE2	-6.52	1.30	1.37
1	5a	91	ILE	N-CA	-6.52	1.38	1.46
1	6a	84	HIS	N-CA	-6.52	1.39	1.46
1	6Q	66	MET	CA-CB	6.52	1.63	1.53
1	7l	149	SER	N-CA	6.52	1.54	1.45
1	7Y	62	HIS	CE1-NE2	6.52	1.39	1.32
1	8T	84	HIS	CA-C	-6.52	1.46	1.52
1	8X	97	ARG	CD-NE	6.52	1.55	1.46
1	9w	190	LEU	CB-CG	6.52	1.66	1.53
1	Y	24	VAL	N-CA	6.52	1.54	1.46
1	ag	5	ASN	CA-C	6.52	1.60	1.53
1	11	107	THR	N-CA	6.52	1.54	1.46
1	aI	226	HIS	CB-CG	6.52	1.59	1.50
1	bb	49	PRO	N-CD	-6.52	1.38	1.47
1	17	201	ILE	CA-C	6.52	1.61	1.52
1	bE	139	ASN	C-N	6.52	1.42	1.33
1	bF	189	LEU	CA-CB	6.52	1.64	1.53
1	bG	200	THR	C-N	6.52	1.42	1.33
1	d4	165	VAL	C-N	6.52	1.42	1.33
1	d8	48	THR	N-CA	6.52	1.55	1.45
1	d9	17	PRO	C-N	-6.52	1.25	1.33
1	db	24	VAL	CA-CB	-6.52	1.46	1.54
1	dh	12	HIS	CB-CG	6.52	1.59	1.50
1	dj	104	ILE	CA-C	6.52	1.61	1.52
1	dC	17	PRO	C-O	-6.52	1.16	1.24
1	dD	169	TYR	C-N	6.52	1.42	1.33
1	et	228	ALA	N-CA	6.52	1.54	1.46
1	fX	160	PRO	N-CA	-6.52	1.39	1.47
1	F	87	HIS	CE1-NE2	-6.52	1.26	1.32
1	gg	182	LYS	CA-CB	6.52	1.63	1.53
1	gY	120	HIS	CG-CD2	6.52	1.43	1.35
1	hh	33	SER	C-N	6.52	1.41	1.34
1	hh	212	GLU	N-CA	-6.52	1.38	1.46
1	i8	70	LYS	CA-C	6.52	1.61	1.52
1	iW	113	GLU	CA-C	-6.52	1.44	1.52
1	21	174	ALA	N-CA	6.52	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2Q	99	PRO	CA-CB	-6.52	1.46	1.54
1	3l	87	HIS	ND1-CE1	6.52	1.39	1.32
1	3p	99	PRO	C-O	-6.52	1.17	1.23
1	3y	128	GLU	C-N	6.52	1.42	1.33
1	3S	146	SER	CA-CB	6.52	1.60	1.53
1	4q	79	GLU	CA-C	6.52	1.61	1.52
1	58	58	THR	N-CA	6.52	1.54	1.46
1	6I	87	HIS	CB-CG	6.52	1.59	1.50
1	7h	211	LEU	C-N	6.52	1.42	1.33
1	86	180	GLU	C-N	6.52	1.41	1.33
1	8d	93	PRO	CA-C	-6.52	1.43	1.52
1	8G	150	ILE	C-N	6.52	1.43	1.33
1	92	62	HIS	CA-CB	6.52	1.64	1.53
1	9g	143	ARG	CZ-NH1	-6.52	1.23	1.32
1	9s	133	TRP	CA-C	6.52	1.61	1.52
1	9Y	18	ARG	N-CA	-6.52	1.38	1.46
1	ae	154	ARG	N-CA	6.52	1.54	1.45
1	17	9	GLN	N-CA	-6.52	1.37	1.45
1	br	188	THR	CA-C	-6.52	1.48	1.52
1	bP	50	GLN	C-N	6.52	1.43	1.33
1	cg	214	MET	CA-C	-6.52	1.44	1.52
1	cM	57	ASN	CA-CB	6.52	1.64	1.53
1	1j	83	LEU	N-CA	-6.52	1.37	1.46
1	dw	230	VAL	C-N	6.52	1.42	1.33
1	e8	74	ASN	CA-C	6.52	1.61	1.52
1	eD	79	GLU	CA-CB	6.52	1.63	1.53
1	eJ	124	ILE	N-CA	-6.52	1.40	1.46
1	fn	197	ASP	CA-CB	6.52	1.63	1.53
1	9	142	VAL	C-N	6.52	1.42	1.33
1	gB	36	VAL	C-N	6.52	1.40	1.33
1	hc	100	ARG	CA-CB	6.52	1.63	1.53
1	hN	87	HIS	CE1-NE2	-6.52	1.26	1.32
1	i8	124	ILE	CA-C	6.52	1.58	1.53
1	iH	173	ARG	NE-CZ	6.52	1.40	1.33
1	jc	226	HIS	CA-C	-6.52	1.44	1.52
1	ju	89	GLY	C-N	-6.52	1.25	1.33
1	lz	104	ILE	N-CA	6.52	1.54	1.46
1	lN	164	TYR	C-N	6.52	1.42	1.33
1	2p	137	GLY	CA-C	-6.52	1.44	1.52
1	2q	69	LEU	CA-C	6.52	1.61	1.52
1	4k	116	GLY	N-CA	6.52	1.54	1.45
1	5S	84	HIS	ND1-CE1	6.52	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7p	127	GLY	CA-C	-6.52	1.42	1.51
1	9I	205	LEU	N-CA	6.52	1.54	1.46
1	9N	124	ILE	N-CA	6.52	1.51	1.46
1	18	137	GLY	CA-C	-6.52	1.45	1.52
1	bT	184	TRP	NE1-CE2	-6.52	1.30	1.37
1	cW	138	LEU	C-N	6.52	1.42	1.33
1	R	202	LEU	CA-CB	6.52	1.63	1.53
1	go	114	GLN	CA-C	6.51	1.61	1.52
1	hB	134	ILE	C-N	6.51	1.42	1.33
1	ii	79	GLU	N-CA	-6.51	1.38	1.46
1	1Z	158	LYS	CA-C	6.51	1.61	1.52
1	kx	35	GLU	CA-C	6.51	1.61	1.52
1	kz	168	PHE	N-CA	-6.51	1.38	1.46
1	kA	194	ALA	C-N	6.51	1.42	1.33
1	kZ	17	PRO	N-CA	-6.51	1.39	1.47
1	2M	67	GLN	C-O	-6.51	1.16	1.24
1	35	160	PRO	CA-CB	6.51	1.61	1.53
1	3b	5	ASN	N-CA	-6.51	1.38	1.46
1	4G	58	THR	C-N	6.51	1.40	1.33
1	53	50	GLN	CA-CB	6.51	1.63	1.53
1	5U	32	PHE	CA-CB	6.51	1.61	1.52
1	6i	37	ILE	CA-CB	6.51	1.57	1.54
1	6J	83	LEU	CA-C	-6.51	1.43	1.52
1	6W	154	ARG	CD-NE	6.51	1.55	1.46
1	6W	181	VAL	N-CA	-6.51	1.39	1.46
1	76	191	VAL	CA-CB	-6.51	1.46	1.54
1	7j	35	GLU	CA-CB	6.51	1.64	1.53
1	7n	144	MET	C-O	-6.51	1.16	1.24
1	7B	114	GLN	C-N	6.51	1.42	1.33
1	7R	132	ARG	CD-NE	6.51	1.55	1.46
1	9h	71	GLU	CA-C	-6.51	1.44	1.52
1	am	226	HIS	ND1-CE1	6.51	1.39	1.32
1	b1	143	ARG	C-N	6.51	1.41	1.33
1	b6	8	GLY	N-CA	6.51	1.53	1.45
1	bB	84	HIS	CA-CB	6.51	1.62	1.53
1	c9	55	MET	C-N	6.51	1.42	1.33
1	cj	190	LEU	N-CA	6.51	1.54	1.46
1	cp	72	THR	CA-C	-6.51	1.44	1.52
1	cs	142	VAL	CA-CB	6.51	1.62	1.54
1	ct	97	ARG	C-N	6.51	1.44	1.33
1	cK	20	LEU	CA-CB	6.51	1.63	1.53
1	cV	160	PRO	CA-CB	-6.51	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d5	67	GLN	CA-C	-6.51	1.44	1.52
1	dd	87	HIS	CA-C	6.51	1.60	1.52
1	eT	50	GLN	CA-CB	6.51	1.63	1.53
1	fY	33	SER	CA-C	-6.51	1.44	1.52
1	b	132	ARG	CA-CB	6.51	1.64	1.53
1	g	150	ILE	C-N	6.51	1.43	1.33
1	H	84	HIS	CA-C	-6.51	1.48	1.53
1	ha	120	HIS	CG-ND1	6.51	1.45	1.38
1	1I	194	ALA	C-N	6.51	1.42	1.33
1	k8	87	HIS	ND1-CE1	6.51	1.39	1.32
1	kb	213	GLU	CA-CB	6.51	1.63	1.53
1	kC	73	ILE	N-CA	6.51	1.54	1.46
1	2x	60	GLY	CA-C	-6.51	1.44	1.52
1	3h	7	GLN	CA-CB	6.51	1.64	1.53
1	3D	60	GLY	C-N	6.51	1.42	1.33
1	4O	11	VAL	CA-C	6.51	1.60	1.53
1	62	100	ARG	CD-NE	6.51	1.55	1.46
1	7P	187	GLU	CA-CB	6.51	1.63	1.53
1	9g	62	HIS	CA-CB	-6.51	1.43	1.53
1	bD	12	HIS	CG-CD2	6.51	1.43	1.35
1	bG	176	GLN	N-CA	6.51	1.54	1.46
1	cB	15	ILE	CA-C	6.51	1.61	1.52
1	gj	40	PHE	CA-C	-6.51	1.44	1.52
1	gJ	18	ARG	N-CA	-6.51	1.38	1.46
1	gJ	21	ASN	CA-CB	6.51	1.63	1.53
1	hb	200	THR	CA-C	-6.51	1.44	1.52
1	hh	87	HIS	ND1-CE1	6.51	1.39	1.32
1	1L	151	LEU	CA-C	6.51	1.61	1.52
1	hT	3	VAL	N-CA	-6.51	1.38	1.46
1	jD	92	GLU	N-CA	-6.51	1.36	1.46
1	jE	197	ASP	CA-C	6.51	1.61	1.52
1	27	64	ALA	CA-C	6.51	1.61	1.52
1	ll	155	GLN	N-CA	-6.51	1.38	1.46
1	2g	193	ASN	CA-CB	6.51	1.61	1.53
1	2x	20	LEU	CA-CB	6.51	1.63	1.53
1	4d	3	VAL	CA-CB	6.51	1.62	1.54
1	4v	183	ASN	CA-C	6.51	1.61	1.52
1	4A	105	ALA	CA-CB	6.51	1.64	1.53
1	54	37	ILE	C-N	6.51	1.41	1.34
1	5c	153	ILE	CA-CB	6.51	1.62	1.54
1	5l	12	HIS	CA-CB	6.51	1.61	1.53
1	6b	53	ASN	C-N	6.51	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6k	101	GLY	N-CA	6.51	1.53	1.45
1	6P	115	ILE	CA-CB	6.51	1.62	1.54
1	7b	150	ILE	CA-CB	-6.51	1.45	1.54
1	7x	93	PRO	CA-C	-6.51	1.43	1.52
1	7Z	108	THR	CA-C	-6.51	1.44	1.52
1	8i	112	GLN	N-CA	6.51	1.54	1.46
1	8z	84	HIS	ND1-CE1	6.51	1.39	1.32
1	8D	89	GLY	CA-C	6.51	1.61	1.51
1	8G	20	LEU	CA-CB	6.51	1.63	1.53
1	9a	98	GLU	C-N	6.51	1.42	1.33
1	at	202	LEU	C-N	6.51	1.42	1.33
1	ax	40	PHE	N-CA	-6.51	1.38	1.46
1	15	72	THR	N-CA	6.51	1.54	1.46
1	c9	142	VAL	CA-C	-6.51	1.44	1.52
1	cc	194	ALA	C-N	6.51	1.42	1.33
1	dj	67	GLN	N-CA	-6.51	1.38	1.46
1	1n	129	ILE	CA-CB	6.51	1.62	1.54
1	dT	31	ALA	C-N	6.51	1.42	1.33
1	ec	204	ALA	C-N	6.51	1.42	1.34
1	eM	18	ARG	CD-NE	6.51	1.55	1.46
1	1y	168	PHE	CA-CB	6.51	1.63	1.53
1	fG	126	VAL	C-N	6.51	1.41	1.33
1	fU	23	TRP	CD1-NE1	6.51	1.51	1.37
1	gh	28	GLU	CA-C	6.51	1.61	1.52
1	gl	132	ARG	CA-CB	6.51	1.63	1.53
1	gF	202	LEU	N-CA	-6.51	1.38	1.46
1	hi	219	GLN	N-CA	-6.51	1.38	1.46
1	ho	103	ASP	CA-C	6.51	1.61	1.52
1	hN	87	HIS	CB-CG	6.51	1.59	1.50
1	i8	59	VAL	CA-C	6.51	1.60	1.52
1	iJ	121	ASN	CA-CB	6.51	1.63	1.53
1	lL	197	ASP	N-CA	-6.51	1.37	1.46
1	2F	179	GLN	C-O	-6.51	1.16	1.24
1	2M	195	ASN	CA-C	6.51	1.59	1.53
1	2P	186	THR	N-CA	6.51	1.54	1.46
1	35	9	GLN	CA-C	6.51	1.60	1.52
1	39	21	ASN	C-N	6.51	1.42	1.33
1	3m	15	ILE	CA-CB	6.51	1.60	1.54
1	4I	206	GLY	C-N	-6.51	1.27	1.33
1	58	203	LYS	CA-CB	6.51	1.63	1.53
1	5f	172	LEU	CA-CB	6.51	1.64	1.53
1	5z	192	GLN	N-CA	-6.51	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6d	204	ALA	C-N	6.51	1.41	1.33
1	6n	129	ILE	CA-CB	6.51	1.62	1.54
1	6J	194	ALA	CA-CB	6.51	1.64	1.53
1	7b	229	ARG	CD-NE	6.51	1.55	1.46
1	8g	3	VAL	CA-CB	6.51	1.62	1.54
1	8J	19	THR	C-N	6.51	1.42	1.33
1	9H	100	ARG	CA-CB	6.51	1.63	1.53
1	9V	139	ASN	C-N	6.51	1.42	1.33
1	aA	21	ASN	CA-CB	6.51	1.63	1.53
1	13	199	LYS	CA-C	-6.51	1.44	1.52
1	bx	23	TRP	C-N	6.51	1.41	1.34
1	by	223	GLY	CA-C	-6.51	1.42	1.51
1	ck	92	GLU	C-N	6.51	1.41	1.33
1	cv	129	ILE	C-N	6.51	1.42	1.33
1	da	189	LEU	CA-C	6.51	1.61	1.52
1	1j	177	ALA	N-CA	-6.51	1.37	1.45
1	dg	180	GLU	C-N	6.51	1.42	1.33
1	dK	139	ASN	C-N	6.51	1.42	1.33
1	dR	117	TRP	C-N	6.51	1.42	1.34
1	ec	23	TRP	C-N	6.51	1.40	1.34
1	eG	5	ASN	CA-C	-6.51	1.43	1.52
1	eP	159	GLU	C-N	6.51	1.41	1.33
1	eZ	185	MET	CA-C	6.51	1.61	1.52
1	l	41	SER	CA-C	6.51	1.61	1.52
1	o	39	MET	CA-CB	6.51	1.63	1.53
1	gF	107	THR	C-O	-6.51	1.15	1.24
1	h3	36	VAL	N-CA	6.51	1.54	1.46
1	hl	79	GLU	CA-CB	6.51	1.63	1.53
1	hQ	221	VAL	C-N	6.51	1.42	1.33
1	ia	40	PHE	N-CA	6.51	1.54	1.46
1	iF	37	ILE	CA-CB	-6.51	1.49	1.53
1	iO	154	ARG	NE-CZ	-6.51	1.25	1.33
1	j9	32	PHE	CA-C	6.51	1.61	1.52
1	kG	195	ASN	CA-CB	6.51	1.63	1.53
1	ll	129	ILE	CA-CB	6.51	1.61	1.54
1	3m	62	HIS	CE1-NE2	6.51	1.39	1.32
1	3U	3	VAL	CA-C	-6.51	1.44	1.52
1	5t	87	HIS	CE1-NE2	6.51	1.39	1.32
1	7u	144	MET	CA-CB	6.51	1.64	1.53
1	7O	41	SER	CA-CB	6.51	1.63	1.53
1	85	44	SER	CA-C	6.51	1.62	1.52
1	92	97	ARG	CA-CB	6.51	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eJ	177	ALA	CA-CB	6.51	1.63	1.53
1	eO	120	HIS	CA-CB	6.51	1.63	1.53
1	fl	26	VAL	C-N	-6.51	1.25	1.33
1	1	64	ALA	N-CA	-6.51	1.38	1.46
1	M	125	PRO	CA-CB	6.51	1.60	1.53
1	gK	50	GLN	C-N	6.51	1.42	1.33
1	gO	230	VAL	CA-CB	-6.51	1.47	1.54
1	i6	7	GLN	C-N	6.51	1.42	1.33
1	ig	28	GLU	CA-C	6.51	1.61	1.52
1	iH	217	ALA	N-CA	-6.51	1.37	1.46
1	iP	114	GLN	C-O	-6.51	1.16	1.24
1	iU	143	ARG	CD-NE	6.51	1.55	1.46
1	k5	82	ARG	CD-NE	6.51	1.55	1.46
1	28	195	ASN	CA-CB	6.51	1.62	1.53
1	2R	208	ALA	C-N	6.51	1.42	1.33
1	2U	72	THR	CA-C	-6.51	1.44	1.52
1	53	226	HIS	CA-CB	6.51	1.63	1.53
1	5O	213	GLU	CA-CB	6.51	1.63	1.53
1	6I	18	ARG	C-N	6.51	1.42	1.33
1	76	9	GLN	N-CA	-6.51	1.37	1.46
1	7F	124	ILE	CA-C	6.51	1.58	1.53
1	7L	227	LYS	N-CA	-6.51	1.37	1.46
1	8N	45	GLU	CA-CB	6.51	1.63	1.53
1	91	97	ARG	CD-NE	6.51	1.55	1.46
1	aR	56	LEU	N-CA	6.51	1.54	1.46
1	b9	138	LEU	CA-CB	6.51	1.63	1.53
1	bl	82	ARG	CD-NE	6.51	1.55	1.46
1	bt	10	MET	C-O	-6.51	1.15	1.23
1	19	134	ILE	N-CA	6.51	1.54	1.46
1	bW	154	ARG	CD-NE	6.51	1.55	1.46
1	cp	158	LYS	N-CA	-6.51	1.38	1.46
1	cF	116	GLY	CA-C	6.51	1.59	1.52
1	cQ	16	SER	C-N	6.51	1.41	1.33
1	d1	9	GLN	N-CA	6.51	1.54	1.45
1	dK	17	PRO	CA-C	6.51	1.61	1.52
1	ef	186	THR	CA-C	6.51	1.61	1.52
1	eR	100	ARG	CD-NE	6.51	1.55	1.46
1	fo	23	TRP	CD2-CE3	6.51	1.50	1.40
1	g2	184	TRP	CA-C	6.51	1.61	1.52
1	g7	211	LEU	N-CA	6.51	1.54	1.46
1	gd	171	THR	C-N	6.50	1.42	1.33
1	1L	131	LYS	N-CA	6.50	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	if	136	LEU	C-N	6.50	1.42	1.33
1	jz	188	THR	C-N	6.50	1.42	1.33
1	1Z	212	GLU	CA-CB	6.50	1.64	1.53
1	3C	190	LEU	CA-CB	6.50	1.63	1.53
1	3W	62	HIS	CA-C	-6.50	1.44	1.53
1	41	23	TRP	C-N	6.50	1.42	1.34
1	4n	68	MET	CA-C	6.50	1.61	1.52
1	4W	170	LYS	CA-C	6.50	1.61	1.52
1	5S	154	ARG	N-CA	-6.50	1.38	1.46
1	7U	208	ALA	CA-C	6.50	1.60	1.53
1	88	94	GLY	N-CA	6.50	1.54	1.45
1	9s	57	ASN	N-CA	-6.50	1.38	1.46
1	9K	26	VAL	CA-CB	-6.50	1.46	1.54
1	a3	198	CYS	CA-C	6.50	1.61	1.52
1	b1	123	PRO	CA-C	-6.50	1.45	1.52
1	bi	177	ALA	CA-CB	6.50	1.63	1.53
1	de	87	HIS	ND1-CE1	6.50	1.39	1.32
1	fe	37	ILE	CA-C	6.50	1.58	1.52
1	ff	87	HIS	CE1-NE2	6.50	1.39	1.32
1	gi	3	VAL	N-CA	6.50	1.53	1.46
1	gm	96	MET	CA-CB	6.50	1.62	1.53
1	1F	94	GLY	CA-C	-6.50	1.42	1.51
1	hA	180	GLU	C-O	6.50	1.31	1.24
1	hX	3	VAL	CA-C	6.50	1.60	1.52
1	il	172	LEU	C-N	6.50	1.42	1.33
1	it	221	VAL	CA-CB	-6.50	1.47	1.54
1	j6	230	VAL	CA-CB	-6.50	1.46	1.54
1	jj	90	PRO	C-O	-6.50	1.15	1.23
1	jR	74	ASN	N-CA	6.50	1.54	1.46
1	kB	177	ALA	N-CA	-6.50	1.38	1.46
1	2d	70	LYS	CA-CB	6.50	1.63	1.53
1	2D	204	ALA	CA-C	6.50	1.61	1.52
1	2N	11	VAL	CA-C	-6.50	1.44	1.52
1	3n	216	THR	N-CA	-6.50	1.37	1.46
1	3t	162	ARG	CD-NE	6.50	1.55	1.46
1	3F	19	THR	CA-C	-6.50	1.44	1.52
1	3H	24	VAL	C-N	6.50	1.42	1.34
1	43	26	VAL	CA-C	6.50	1.60	1.52
1	47	230	VAL	CA-C	6.50	1.63	1.53
1	4y	50	GLN	C-N	6.50	1.42	1.33
1	5A	93	PRO	C-N	6.50	1.44	1.33
1	5W	138	LEU	C-N	6.50	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	65	87	HIS	CD2-NE2	6.50	1.45	1.37
1	7q	25	LYS	C-N	6.50	1.42	1.33
1	7y	4	GLN	C-N	6.50	1.42	1.33
1	7H	40	PHE	CA-C	-6.50	1.44	1.52
1	7M	123	PRO	CA-C	6.50	1.60	1.52
1	7S	102	SER	CA-C	-6.50	1.44	1.52
1	8F	18	ARG	CD-NE	6.50	1.55	1.46
1	9w	135	ILE	N-CA	6.50	1.54	1.46
1	9J	170	LYS	C-N	6.50	1.42	1.33
1	aC	227	LYS	N-CA	-6.50	1.38	1.46
1	aM	110	THR	CA-C	6.50	1.60	1.52
1	aZ	227	LYS	CA-CB	6.50	1.63	1.53
1	b2	42	ALA	CA-C	6.50	1.61	1.52
1	b6	76	GLU	CA-C	-6.50	1.43	1.52
1	bs	210	THR	N-CA	6.50	1.54	1.45
1	cj	230	VAL	N-CA	-6.50	1.38	1.46
1	1l	30	LYS	CA-CB	6.50	1.63	1.53
1	1l	146	SER	C-O	-6.50	1.20	1.23
1	dA	12	HIS	ND1-CE1	6.50	1.39	1.32
1	dW	165	VAL	CA-CB	-6.50	1.46	1.54
1	eS	82	ARG	CZ-NH2	-6.50	1.25	1.33
1	f7	91	ILE	CA-CB	6.50	1.62	1.54
1	fN	139	ASN	CA-C	6.50	1.61	1.52
1	1z	149	SER	CA-C	-6.50	1.45	1.52
1	g6	67	GLN	CA-CB	6.50	1.63	1.53
1	r	86	VAL	C-N	6.50	1.41	1.33
1	F	86	VAL	CA-C	6.50	1.60	1.52
1	gF	48	THR	CA-C	-6.50	1.46	1.53
1	hh	62	HIS	CE1-NE2	6.50	1.39	1.32
1	hs	193	ASN	CA-CB	-6.50	1.43	1.53
1	it	192	GLN	CA-C	6.50	1.61	1.52
1	1Q	194	ALA	CA-CB	6.50	1.63	1.53
1	jU	121	ASN	N-CA	-6.50	1.38	1.46
1	k9	130	TYR	C-N	6.50	1.42	1.33
1	lh	19	THR	N-CA	6.50	1.54	1.46
1	3D	108	THR	N-CA	6.50	1.54	1.46
1	3J	165	VAL	CA-CB	-6.50	1.46	1.54
1	46	66	MET	C-N	6.50	1.42	1.33
1	4l	12	HIS	CD2-NE2	6.50	1.45	1.37
1	4m	167	ARG	NE-CZ	6.50	1.40	1.33
1	4W	115	ILE	N-CA	-6.50	1.38	1.46
1	50	84	HIS	CA-CB	6.50	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5t	128	GLU	N-CA	-6.50	1.38	1.46
1	6a	13	GLN	CA-C	-6.50	1.44	1.52
1	6k	18	ARG	CZ-NH2	-6.50	1.25	1.33
1	6r	149	SER	CA-C	-6.50	1.44	1.52
1	6u	50	GLN	CA-CB	6.50	1.63	1.53
1	6x	87	HIS	N-CA	-6.50	1.37	1.45
1	6M	228	ALA	CA-C	-6.50	1.43	1.52
1	7j	13	GLN	CA-CB	6.50	1.64	1.53
1	7n	92	GLU	CA-C	6.50	1.59	1.52
1	8C	132	ARG	CA-C	6.50	1.61	1.52
1	8N	9	GLN	CA-C	-6.50	1.44	1.52
1	98	110	THR	N-CA	-6.50	1.37	1.45
1	9a	20	LEU	C-O	-6.50	1.15	1.24
1	9o	226	HIS	ND1-CE1	6.50	1.39	1.32
1	9Z	159	GLU	N-CA	6.50	1.51	1.45
1	ak	143	ARG	CD-NE	6.50	1.55	1.46
1	ao	39	MET	N-CA	-6.50	1.38	1.46
1	aM	95	GLN	CA-C	-6.50	1.44	1.52
1	aU	77	ALA	C-N	6.50	1.42	1.33
1	bm	230	VAL	CA-C	6.50	1.60	1.52
1	cG	169	TYR	N-CA	-6.50	1.37	1.46
1	e0	39	MET	CA-CB	6.50	1.63	1.53
1	e1	22	ALA	CA-C	-6.50	1.44	1.52
1	eN	22	ALA	C-N	6.50	1.42	1.33
1	f9	150	ILE	N-CA	-6.50	1.37	1.46
1	fa	98	GLU	C-N	6.50	1.41	1.33
1	fG	103	ASP	CA-CB	6.50	1.63	1.53
1	fK	84	HIS	C-N	6.50	1.42	1.33
1	fO	169	TYR	CA-CB	6.50	1.64	1.53
1	l	204	ALA	CA-CB	6.50	1.63	1.53
1	hN	103	ASP	CA-C	6.50	1.61	1.52
1	j5	38	PRO	CA-CB	6.50	1.63	1.53
1	jK	17	PRO	C-N	6.50	1.42	1.33
1	kg	157	PRO	CA-CB	-6.50	1.44	1.53
1	kK	3	VAL	CA-C	-6.50	1.44	1.52
1	lu	181	VAL	N-CA	-6.50	1.38	1.46
1	lJ	198	CYS	C-N	6.50	1.42	1.34
1	lN	130	TYR	CA-CB	6.50	1.63	1.53
1	2f	190	LEU	C-N	6.50	1.41	1.33
1	2t	84	HIS	CE1-NE2	6.50	1.39	1.32
1	2H	70	LYS	C-N	6.50	1.42	1.33
1	3i	203	LYS	CA-CB	6.50	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3C	174	ALA	N-CA	-6.50	1.37	1.46
1	65	158	LYS	CA-C	-6.50	1.44	1.52
1	81	22	ALA	N-CA	-6.50	1.38	1.46
1	9G	170	LYS	CA-CB	6.50	1.63	1.53
1	bw	15	ILE	CA-C	6.50	1.62	1.53
1	c5	52	LEU	N-CA	-6.50	1.38	1.46
1	cq	169	TYR	C-N	6.50	1.42	1.33
1	e5	118	MET	CA-C	6.50	1.61	1.52
1	1w	46	GLY	C-N	6.50	1.42	1.33
1	g3	115	ILE	CA-C	6.50	1.60	1.52
1	gO	59	VAL	CA-C	6.50	1.59	1.52
1	jw	145	TYR	CA-CB	6.50	1.63	1.54
1	k1	81	ASP	C-N	-6.50	1.25	1.33
1	k3	103	ASP	N-CA	6.50	1.54	1.46
1	kv	221	VAL	CA-CB	-6.50	1.47	1.54
1	l4	62	HIS	CA-C	-6.50	1.44	1.53
1	lK	56	LEU	CA-CB	6.50	1.63	1.53
1	3W	30	LYS	C-N	6.50	1.42	1.34
1	4G	151	LEU	CA-C	6.50	1.61	1.52
1	50	79	GLU	CA-C	-6.50	1.44	1.52
1	58	86	VAL	CA-C	6.50	1.61	1.52
1	6R	104	ILE	CA-C	-6.50	1.44	1.52
1	6Y	67	GLN	CA-C	6.50	1.61	1.52
1	72	158	LYS	CA-CB	6.50	1.63	1.53
1	7x	104	ILE	CB-CG1	6.50	1.66	1.53
1	83	21	ASN	C-N	6.50	1.42	1.33
1	9C	216	THR	C-N	6.50	1.42	1.33
1	9X	92	GLU	C-N	6.50	1.41	1.33
1	a5	16	SER	CA-C	6.50	1.60	1.53
1	b0	84	HIS	ND1-CE1	6.50	1.39	1.32
1	be	102	SER	C-N	6.50	1.43	1.34
1	bf	83	LEU	C-N	6.50	1.40	1.33
1	bx	170	LYS	CA-CB	6.50	1.63	1.53
1	bR	182	LYS	CA-CB	6.50	1.63	1.53
1	c5	63	GLN	CA-CB	6.50	1.64	1.53
1	cp	205	LEU	CA-C	6.50	1.61	1.52
1	dd	219	GLN	C-N	6.50	1.41	1.33
1	df	135	ILE	CA-CB	-6.50	1.45	1.54
1	dR	91	ILE	CA-C	-6.50	1.44	1.52
1	ey	31	ALA	CA-CB	6.50	1.64	1.53
1	eG	213	GLU	CA-C	6.50	1.61	1.52
1	eW	37	ILE	CA-C	6.50	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1w	154	ARG	CD-NE	6.50	1.55	1.46
1	fo	217	ALA	CA-CB	6.50	1.61	1.53
1	fz	2	ILE	CA-C	6.50	1.60	1.52
1	fW	210	THR	CA-CB	6.50	1.63	1.53
1	m	143	ARG	CA-C	-6.50	1.44	1.52
1	g9	127	GLY	C-N	6.50	1.41	1.33
1	gp	77	ALA	C-N	6.50	1.42	1.33
1	h7	151	LEU	N-CA	6.50	1.54	1.46
1	if	104	ILE	CA-CB	-6.50	1.46	1.54
1	ij	86	VAL	C-N	6.50	1.42	1.33
1	in	91	ILE	CA-C	6.50	1.60	1.52
1	iz	166	ASP	N-CA	-6.50	1.38	1.46
1	iJ	210	THR	CB-OG1	-6.50	1.33	1.43
1	ko	69	LEU	N-CA	-6.50	1.38	1.46
1	kT	37	ILE	C-O	-6.50	1.19	1.24
1	lc	219	GLN	C-N	6.50	1.40	1.33
1	lg	136	LEU	CA-C	6.50	1.61	1.52
1	lj	161	PHE	CA-CB	6.50	1.64	1.53
1	2X	99	PRO	C-O	6.50	1.31	1.23
1	3K	226	HIS	CA-CB	6.50	1.63	1.53
1	6z	79	GLU	CA-CB	6.50	1.64	1.53
1	8F	215	MET	CA-C	6.50	1.61	1.52
1	8X	138	LEU	N-CA	-6.50	1.38	1.46
1	9a	160	PRO	C-N	6.50	1.42	1.33
1	9s	123	PRO	CA-CB	-6.50	1.45	1.53
1	al	1	PRO	N-CD	6.50	1.56	1.47
1	bj	72	THR	CA-CB	-6.50	1.43	1.53
1	1f	161	PHE	CA-CB	6.50	1.63	1.53
1	d0	81	ASP	CA-CB	6.50	1.63	1.53
1	df	186	THR	C-N	-6.50	1.25	1.33
1	dN	29	GLU	N-CA	-6.50	1.37	1.45
1	e2	107	THR	CA-C	6.50	1.61	1.52
1	em	163	ASP	N-CA	-6.50	1.38	1.46
1	eE	111	LEU	C-N	6.50	1.42	1.33
1	f6	200	THR	CA-CB	-6.50	1.43	1.53
1	fB	164	TYR	C-N	6.50	1.42	1.33
1	fK	43	LEU	CA-C	6.50	1.61	1.52
1	7	123	PRO	CA-C	6.50	1.60	1.52
1	1H	139	ASN	C-N	6.50	1.42	1.33
1	hb	89	GLY	CA-C	6.50	1.61	1.51
1	iS	36	VAL	CA-CB	-6.50	1.45	1.54
1	ks	103	ASP	N-CA	6.50	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2A	121	ASN	CA-CB	6.50	1.62	1.53
1	2M	192	GLN	CA-C	6.50	1.61	1.52
1	3a	96	MET	N-CA	-6.50	1.38	1.46
1	3H	162	ARG	N-CA	-6.50	1.38	1.46
1	3Z	217	ALA	C-N	6.50	1.42	1.33
1	5x	229	ARG	NE-CZ	-6.50	1.25	1.33
1	7s	13	GLN	C-N	6.50	1.42	1.33
1	7R	229	ARG	CD-NE	6.50	1.55	1.46
1	8o	37	ILE	CA-CB	-6.50	1.50	1.54
1	9c	20	LEU	CA-C	-6.50	1.44	1.52
1	9Q	152	ASP	C-N	6.50	1.40	1.33
1	9W	84	HIS	ND1-CE1	6.50	1.39	1.32
1	b4	84	HIS	CA-CB	6.50	1.61	1.53
1	bF	226	HIS	ND1-CE1	6.50	1.39	1.32
1	cY	18	ARG	CZ-NH1	-6.50	1.23	1.32
1	dF	132	ARG	CD-NE	6.50	1.55	1.46
1	dI	140	LYS	CA-C	-6.50	1.44	1.52
1	dX	13	GLN	C-N	6.50	1.41	1.33
1	e2	124	ILE	CA-C	6.50	1.58	1.52
1	ed	212	GLU	C-N	6.50	1.42	1.33
1	fr	81	ASP	CA-C	6.50	1.61	1.52
1	gl	102	SER	CA-C	6.49	1.61	1.52
1	gy	202	LEU	CA-CB	6.49	1.63	1.53
1	hu	64	ALA	CA-C	6.49	1.61	1.52
1	ij	223	GLY	N-CA	6.49	1.51	1.43
1	iB	143	ARG	CA-CB	6.49	1.63	1.53
1	iK	139	ASN	CA-CB	6.49	1.63	1.53
1	jC	116	GLY	N-CA	6.49	1.53	1.45
1	kA	229	ARG	N-CA	-6.49	1.37	1.46
1	kI	91	ILE	CA-CB	6.49	1.62	1.54
1	kI	112	GLN	N-CA	-6.49	1.38	1.46
1	2N	77	ALA	N-CA	6.49	1.54	1.46
1	3b	102	SER	N-CA	-6.49	1.37	1.46
1	3r	129	ILE	CA-C	6.49	1.61	1.52
1	4o	82	ARG	CD-NE	6.49	1.55	1.46
1	5j	121	ASN	CA-C	-6.49	1.47	1.52
1	5p	172	LEU	C-N	6.49	1.42	1.33
1	5N	204	ALA	N-CA	6.49	1.54	1.46
1	6z	62	HIS	CG-CD2	-6.49	1.28	1.35
1	7K	145	TYR	CA-CB	6.49	1.62	1.53
1	7V	120	HIS	ND1-CE1	6.49	1.39	1.32
1	8o	120	HIS	N-CA	6.49	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8S	167	ARG	CA-CB	6.49	1.63	1.53
1	9d	94	GLY	C-N	6.49	1.42	1.33
1	a3	21	ASN	C-N	6.49	1.42	1.33
1	aJ	161	PHE	C-O	-6.49	1.15	1.24
1	aV	21	ASN	C-N	6.49	1.42	1.33
1	bc	153	ILE	CA-CB	-6.49	1.46	1.54
1	1c	62	HIS	N-CA	-6.49	1.37	1.46
1	cm	79	GLU	CA-CB	6.49	1.63	1.53
1	1e	173	ARG	CA-C	6.49	1.61	1.52
1	cE	136	LEU	CA-CB	6.49	1.64	1.53
1	cI	179	GLN	C-N	6.49	1.42	1.33
1	cI	209	ALA	N-CA	-6.49	1.38	1.46
1	ea	57	ASN	N-CA	-6.49	1.38	1.46
1	eA	187	GLU	N-CA	-6.49	1.37	1.46
1	eB	106	GLY	C-N	6.49	1.42	1.33
1	f0	55	MET	N-CA	6.49	1.54	1.46
1	7	28	GLU	CA-CB	6.49	1.63	1.53
1	hV	27	VAL	CA-CB	-6.49	1.46	1.54
1	jh	88	ALA	CA-C	6.49	1.60	1.52
1	lj	93	PRO	C-N	6.49	1.41	1.33
1	lv	81	ASP	C-N	6.49	1.42	1.33
1	2u	95	GLN	CA-C	-6.49	1.45	1.52
1	2A	132	ARG	CD-NE	6.49	1.55	1.46
1	2Y	162	ARG	C-N	6.49	1.43	1.33
1	4F	200	THR	N-CA	6.49	1.54	1.46
1	5a	89	GLY	C-N	-6.49	1.26	1.34
1	5m	123	PRO	C-N	6.49	1.38	1.32
1	6J	15	ILE	CA-C	-6.49	1.45	1.52
1	75	147	PRO	CA-CB	6.49	1.62	1.53
1	8m	155	GLN	N-CA	6.49	1.54	1.46
1	8s	116	GLY	N-CA	6.49	1.54	1.45
1	8C	168	PHE	CA-CB	6.49	1.63	1.53
1	90	96	MET	CA-CB	6.49	1.64	1.53
1	bt	64	ALA	N-CA	6.49	1.54	1.46
1	d1	120	HIS	CA-C	6.49	1.60	1.52
1	fq	96	MET	CA-CB	6.49	1.64	1.53
1	fy	67	GLN	CA-C	6.49	1.61	1.52
1	h	167	ARG	N-CA	6.49	1.54	1.46
1	7	75	GLU	C-N	6.49	1.43	1.34
1	gt	170	LYS	CA-CB	6.49	1.63	1.53
1	hu	105	ALA	N-CA	-6.49	1.37	1.46
1	ia	100	ARG	CD-NE	6.49	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ig	80	TRP	CA-CB	6.49	1.63	1.53
1	io	229	ARG	CA-CB	6.49	1.64	1.53
1	iE	82	ARG	CA-CB	6.49	1.63	1.53
1	iI	164	TYR	N-CA	-6.49	1.38	1.46
1	jU	149	SER	N-CA	-6.49	1.37	1.46
1	1Z	80	TRP	CA-C	6.49	1.61	1.52
1	km	213	GLU	N-CA	6.49	1.54	1.46
1	kW	133	TRP	CA-CB	6.49	1.63	1.53
1	28	134	ILE	CA-CB	-6.49	1.45	1.54
1	lJ	16	SER	C-N	6.49	1.41	1.34
1	33	114	GLN	N-CA	6.49	1.54	1.46
1	3J	152	ASP	C-N	6.49	1.41	1.33
1	3Y	62	HIS	CE1-NE2	6.49	1.39	1.32
1	48	136	LEU	CA-CB	6.49	1.63	1.53
1	4b	34	PRO	CA-CB	6.49	1.62	1.53
1	4L	161	PHE	CA-CB	6.49	1.63	1.53
1	5l	143	ARG	CA-CB	6.49	1.63	1.53
1	5r	173	ARG	C-N	6.49	1.43	1.33
1	5F	58	THR	CA-C	-6.49	1.43	1.52
1	5N	165	VAL	CA-C	6.49	1.61	1.52
1	6H	26	VAL	CA-C	6.49	1.60	1.52
1	6I	95	GLN	CA-C	6.49	1.62	1.52
1	6O	181	VAL	CA-C	-6.49	1.45	1.52
1	77	110	THR	CA-C	6.49	1.62	1.53
1	77	126	VAL	C-N	6.49	1.41	1.33
1	7H	160	PRO	C-N	6.49	1.42	1.33
1	8X	12	HIS	CD2-NE2	6.49	1.45	1.37
1	9f	165	VAL	CA-CB	-6.49	1.47	1.54
1	9U	120	HIS	CA-CB	6.49	1.63	1.53
1	a4	217	ALA	N-CA	6.49	1.54	1.45
1	bD	2	ILE	C-N	6.49	1.41	1.33
1	cM	154	ARG	CA-CB	6.49	1.64	1.53
1	dh	13	GLN	CA-CB	6.49	1.61	1.53
1	ed	184	TRP	N-CA	6.49	1.54	1.46
1	f0	75	GLU	CA-CB	6.49	1.63	1.53
1	fn	167	ARG	CA-CB	6.49	1.63	1.53
1	g2	58	THR	N-CA	6.49	1.54	1.46
1	o	107	THR	CA-CB	6.49	1.63	1.53
1	M	170	LYS	N-CA	6.49	1.54	1.46
1	S	33	SER	C-N	6.49	1.41	1.34
1	7	110	THR	CA-C	6.49	1.61	1.53
1	gb	21	ASN	CA-C	6.49	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ge	74	ASN	C-N	6.49	1.42	1.33
1	hj	220	GLY	C-N	6.49	1.40	1.34
1	1J	20	LEU	N-CA	-6.49	1.38	1.46
1	id	9	GLN	C-N	6.49	1.42	1.33
1	in	167	ARG	C-N	6.49	1.42	1.33
1	iv	63	GLN	CA-CB	6.49	1.63	1.53
1	j4	170	LYS	CA-C	6.49	1.61	1.52
1	1W	167	ARG	CD-NE	6.49	1.55	1.46
1	k7	193	ASN	CA-CB	6.49	1.64	1.53
1	kh	226	HIS	CA-CB	6.49	1.64	1.53
1	lr	30	LYS	C-N	6.49	1.40	1.33
1	2u	23	TRP	NE1-CE2	-6.49	1.30	1.37
1	2w	120	HIS	CA-C	-6.49	1.44	1.52
1	2x	219	GLN	CA-C	6.49	1.61	1.52
1	4f	21	ASN	CA-CB	6.49	1.63	1.53
1	4s	208	ALA	CA-CB	6.49	1.62	1.53
1	4B	62	HIS	CD2-NE2	6.49	1.45	1.37
1	58	156	GLY	N-CA	6.49	1.53	1.44
1	5w	121	ASN	CA-C	6.49	1.60	1.52
1	5Z	213	GLU	CA-C	-6.49	1.44	1.52
1	67	2	ILE	CA-C	-6.49	1.45	1.52
1	7U	62	HIS	CA-CB	6.49	1.63	1.53
1	8W	215	MET	N-CA	6.49	1.54	1.46
1	9k	163	ASP	CA-C	-6.49	1.44	1.52
1	9J	145	TYR	CA-CB	6.49	1.61	1.53
1	a8	179	GLN	CA-C	6.49	1.61	1.52
1	bk	147	PRO	C-N	6.49	1.42	1.33
1	bO	167	ARG	CD-NE	6.49	1.55	1.46
1	cn	143	ARG	CA-C	-6.49	1.44	1.52
1	ek	137	GLY	CA-C	6.49	1.59	1.52
1	eR	202	LEU	CA-C	6.49	1.61	1.52
1	f1	161	PHE	CA-C	-6.49	1.43	1.52
1	f8	57	ASN	CA-CB	6.49	1.64	1.53
1	fd	26	VAL	N-CA	6.49	1.54	1.46
1	fy	230	VAL	CA-CB	-6.49	1.47	1.54
1	fJ	85	PRO	CA-C	-6.49	1.45	1.52
1	c	230	VAL	CA-CB	-6.49	1.46	1.54
1	3	12	HIS	ND1-CE1	6.49	1.39	1.32
1	hf	132	ARG	N-CA	-6.49	1.38	1.46
1	ho	151	LEU	CA-CB	6.49	1.63	1.53
1	jW	202	LEU	CA-CB	6.49	1.64	1.53
1	2S	143	ARG	CZ-NH2	-6.49	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	49	206	GLY	CA-C	-6.49	1.42	1.51
1	7N	86	VAL	CA-C	-6.49	1.45	1.52
1	84	13	GLN	CA-C	6.49	1.60	1.52
1	8o	180	GLU	CA-C	6.49	1.61	1.52
1	8C	103	ASP	CA-C	-6.49	1.44	1.52
1	8N	218	CYS	CA-C	6.49	1.61	1.52
1	9i	81	ASP	N-CA	6.49	1.54	1.46
1	9E	164	TYR	CA-C	6.49	1.61	1.52
1	a8	183	ASN	CA-CB	6.49	1.63	1.53
1	11	147	PRO	CA-C	-6.49	1.42	1.52
1	az	173	ARG	CD-NE	6.49	1.55	1.46
1	aH	74	ASN	C-N	6.49	1.42	1.33
1	aT	12	HIS	ND1-CE1	6.49	1.39	1.32
1	bR	99	PRO	CA-CB	6.49	1.62	1.53
1	cC	167	ARG	CD-NE	6.49	1.55	1.46
1	cN	27	VAL	C-N	6.49	1.42	1.33
1	d2	71	GLU	C-N	6.49	1.42	1.33
1	e4	79	GLU	C-N	6.49	1.42	1.33
1	gy	80	TRP	NE1-CE2	-6.49	1.30	1.37
1	1E	85	PRO	CA-C	-6.49	1.44	1.52
1	gH	107	THR	CA-C	-6.49	1.45	1.52
1	h6	75	GLU	CA-C	-6.49	1.44	1.52
1	h7	112	GLN	C-N	6.49	1.42	1.33
1	hd	108	THR	CA-C	-6.49	1.44	1.52
1	hy	43	LEU	CA-C	6.49	1.61	1.52
1	io	32	PHE	CA-CB	6.49	1.62	1.53
1	ir	3	VAL	C-N	6.49	1.42	1.33
1	j0	203	LYS	N-CA	6.49	1.54	1.46
1	j1	164	TYR	N-CA	-6.49	1.38	1.46
1	jm	230	VAL	CA-CB	6.49	1.60	1.54
1	jB	206	GLY	CA-C	6.49	1.61	1.51
1	jU	16	SER	CA-C	6.49	1.60	1.52
1	kA	131	LYS	CA-C	-6.49	1.43	1.52
1	kC	221	VAL	CA-CB	-6.49	1.47	1.54
1	2r	95	GLN	N-CA	6.49	1.54	1.45
1	3q	119	THR	C-N	6.49	1.42	1.33
1	3L	87	HIS	CB-CG	6.49	1.59	1.50
1	3W	52	LEU	N-CA	6.49	1.54	1.46
1	4M	31	ALA	CA-C	-6.49	1.44	1.52
1	5Z	204	ALA	CA-CB	6.49	1.64	1.53
1	6F	30	LYS	C-N	6.49	1.42	1.33
1	6L	108	THR	CA-C	-6.49	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7f	213	GLU	CA-CB	6.49	1.63	1.53
1	7h	102	SER	CA-CB	6.49	1.64	1.53
1	7i	133	TRP	N-CA	-6.49	1.38	1.46
1	7l	62	HIS	CE1-NE2	6.49	1.39	1.32
1	8e	211	LEU	CA-CB	6.49	1.64	1.53
1	8J	119	THR	CA-C	-6.49	1.44	1.52
1	8W	103	ASP	CA-CB	6.49	1.63	1.53
1	96	87	HIS	ND1-CE1	6.49	1.39	1.32
1	9T	84	HIS	ND1-CE1	6.49	1.39	1.32
1	aI	227	LYS	C-O	-6.49	1.15	1.24
1	aJ	124	ILE	N-CA	-6.49	1.40	1.46
1	aR	39	MET	N-CA	-6.49	1.38	1.46
1	bV	138	LEU	C-N	6.49	1.42	1.33
1	ck	26	VAL	C-N	6.49	1.41	1.33
1	ds	174	ALA	CA-C	6.49	1.61	1.52
1	dO	39	MET	CA-C	6.49	1.61	1.52
1	1n	158	LYS	CA-C	6.49	1.61	1.52
1	e6	147	PRO	CA-CB	6.49	1.62	1.53
1	e8	5	ASN	N-CA	-6.49	1.38	1.46
1	eb	121	ASN	CA-C	6.49	1.58	1.52
1	f4	170	LYS	CA-C	6.49	1.61	1.52
1	fu	98	GLU	N-CA	-6.49	1.35	1.46
1	g2	93	PRO	C-N	6.49	1.41	1.33
1	r	111	LEU	C-N	6.49	1.42	1.33
1	B	169	TYR	CA-C	6.49	1.61	1.52
1	D	206	GLY	C-N	6.49	1.42	1.34
1	S	229	ARG	NE-CZ	-6.49	1.25	1.33
1	8	149	SER	N-CA	-6.49	1.39	1.46
1	gb	128	GLU	CA-C	6.48	1.61	1.52
1	gO	230	VAL	CA-C	6.48	1.60	1.52
1	hv	138	LEU	CA-CB	6.48	1.63	1.53
1	hK	22	ALA	C-N	6.48	1.42	1.33
1	iT	82	ARG	N-CA	-6.48	1.38	1.46
1	jk	196	PRO	CA-C	6.48	1.62	1.52
1	jI	111	LEU	C-N	6.48	1.42	1.33
1	kk	195	ASN	C-N	-6.48	1.26	1.34
1	l7	180	GLU	CA-CB	-6.48	1.42	1.53
1	lH	62	HIS	CA-CB	6.48	1.62	1.53
1	2b	131	LYS	CA-CB	6.48	1.63	1.53
1	2N	135	ILE	CA-C	6.48	1.60	1.52
1	3o	15	ILE	CA-CB	6.48	1.60	1.54
1	41	26	VAL	N-CA	6.48	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	42	164	TYR	CA-CB	6.48	1.63	1.53
1	4K	186	THR	CA-C	6.48	1.61	1.52
1	69	24	VAL	CA-CB	6.48	1.63	1.54
1	6O	229	ARG	CD-NE	6.48	1.55	1.46
1	74	165	VAL	C-N	6.48	1.42	1.33
1	78	119	THR	CA-CB	6.48	1.61	1.53
1	7M	15	ILE	CA-C	-6.48	1.45	1.52
1	9W	62	HIS	CG-CD2	6.48	1.43	1.35
1	b7	11	VAL	N-CA	-6.48	1.38	1.46
1	c1	79	GLU	CA-CB	6.48	1.63	1.53
1	ch	33	SER	C-O	-6.48	1.18	1.24
1	db	87	HIS	ND1-CE1	6.48	1.39	1.32
1	dz	59	VAL	CA-CB	-6.48	1.46	1.54
1	1t	63	GLN	C-N	6.48	1.42	1.33
1	fn	74	ASN	C-N	6.48	1.42	1.33
1	M	41	SER	CA-CB	6.48	1.63	1.53
1	gb	182	LYS	CA-CB	6.48	1.63	1.53
1	gx	58	THR	C-N	6.48	1.41	1.33
1	gx	227	LYS	C-N	-6.48	1.25	1.33
1	gM	33	SER	CA-CB	6.48	1.63	1.54
1	1O	124	ILE	CA-C	6.48	1.58	1.53
1	ig	114	GLN	C-N	6.48	1.41	1.34
1	ig	140	LYS	CA-C	6.48	1.61	1.52
1	1P	197	ASP	CA-C	-6.48	1.44	1.52
1	io	20	LEU	C-N	6.48	1.42	1.33
1	iF	131	LYS	N-CA	-6.48	1.38	1.46
1	iQ	202	LEU	C-O	-6.48	1.16	1.24
1	kn	104	ILE	CA-CB	-6.48	1.46	1.54
1	2g	212	GLU	CA-CB	6.48	1.63	1.53
1	2V	5	ASN	CA-C	6.48	1.61	1.52
1	4v	167	ARG	CA-C	-6.48	1.44	1.52
1	5h	24	VAL	N-CA	-6.48	1.38	1.46
1	5I	73	ILE	CA-CB	-6.48	1.47	1.54
1	6Y	183	ASN	C-N	6.48	1.43	1.33
1	72	104	ILE	N-CA	-6.48	1.38	1.46
1	7T	10	MET	N-CA	-6.48	1.37	1.46
1	81	12	HIS	ND1-CE1	6.48	1.39	1.32
1	86	84	HIS	CE1-NE2	6.48	1.39	1.32
1	8b	141	ILE	CA-C	6.48	1.61	1.52
1	8H	205	LEU	CA-C	6.48	1.61	1.52
1	8I	198	CYS	N-CA	6.48	1.54	1.46
1	8I	226	HIS	N-CA	6.48	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9B	63	GLN	CA-C	6.48	1.61	1.52
1	aX	4	GLN	CA-C	6.48	1.59	1.53
1	b9	173	ARG	CA-CB	6.48	1.64	1.53
1	bJ	229	ARG	N-CA	6.48	1.53	1.46
1	bK	62	HIS	CG-ND1	6.48	1.45	1.38
1	ce	153	ILE	C-O	-6.48	1.17	1.23
1	co	23	TRP	NE1-CE2	6.48	1.44	1.37
1	cK	125	PRO	CA-C	-6.48	1.46	1.53
1	cS	86	VAL	C-N	6.48	1.42	1.33
1	dP	15	ILE	C-O	-6.48	1.17	1.24
1	e1	193	ASN	N-CA	-6.48	1.37	1.46
1	ep	62	HIS	CE1-NE2	6.48	1.39	1.32
1	eA	84	HIS	CB-CG	6.48	1.59	1.50
1	fD	154	ARG	CD-NE	6.48	1.55	1.46
1	0	88	ALA	CA-C	6.48	1.62	1.52
1	gn	178	SER	C-N	6.48	1.42	1.33
1	gq	164	TYR	CA-CB	6.48	1.63	1.53
1	gs	162	ARG	CZ-NH2	-6.48	1.25	1.33
1	ji	123	PRO	N-CD	-6.48	1.38	1.47
1	jw	34	PRO	CA-CB	6.48	1.62	1.53
1	l0	6	LEU	N-CA	-6.48	1.37	1.46
1	2J	120	HIS	N-CA	6.48	1.54	1.46
1	2S	66	MET	N-CA	6.48	1.54	1.46
1	3D	124	ILE	N-CA	-6.48	1.41	1.46
1	46	51	ASP	N-CA	6.48	1.54	1.46
1	46	187	GLU	CA-C	-6.48	1.43	1.52
1	4x	66	MET	C-O	-6.48	1.16	1.24
1	4E	9	GLN	N-CA	-6.48	1.38	1.46
1	5b	210	THR	N-CA	6.48	1.54	1.45
1	5i	64	ALA	N-CA	-6.48	1.38	1.46
1	5q	62	HIS	CE1-NE2	6.48	1.39	1.32
1	6x	131	LYS	C-N	6.48	1.42	1.33
1	77	84	HIS	N-CA	-6.48	1.40	1.46
1	8a	230	VAL	CA-C	6.48	1.60	1.52
1	9W	146	SER	CA-CB	6.48	1.63	1.53
1	au	12	HIS	CA-CB	6.48	1.62	1.53
1	aE	80	TRP	N-CA	6.48	1.54	1.46
1	bK	150	ILE	N-CA	-6.48	1.38	1.46
1	co	226	HIS	ND1-CE1	6.48	1.39	1.32
1	dF	35	GLU	CA-C	6.48	1.61	1.52
1	dS	182	LYS	N-CA	-6.48	1.38	1.46
1	e8	209	ALA	N-CA	-6.48	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ej	121	ASN	CA-CB	6.48	1.64	1.53
1	fn	229	ARG	CA-CB	6.48	1.62	1.52
1	fL	31	ALA	CA-C	6.48	1.59	1.53
1	a	146	SER	CA-C	6.48	1.60	1.52
1	h	37	ILE	C-N	6.48	1.42	1.34
1	hQ	26	VAL	CA-CB	6.48	1.62	1.54
1	hV	171	THR	CA-C	-6.48	1.44	1.52
1	io	126	VAL	CA-C	6.48	1.62	1.52
1	jM	22	ALA	CA-CB	6.48	1.63	1.53
1	2i	42	ALA	N-CA	-6.48	1.38	1.46
1	2y	5	ASN	C-N	6.48	1.43	1.34
1	2Y	4	GLN	CA-CB	6.48	1.62	1.53
1	39	12	HIS	CA-C	6.48	1.61	1.52
1	7j	36	VAL	C-O	-6.48	1.15	1.24
1	7x	101	GLY	CA-C	6.48	1.59	1.52
1	cs	225	GLY	CA-C	6.48	1.60	1.52
1	dg	62	HIS	CA-C	-6.48	1.45	1.53
1	ef	72	THR	C-N	6.48	1.42	1.33
1	fh	194	ALA	CA-C	-6.48	1.44	1.53
1	e	50	GLN	CA-CB	6.48	1.63	1.53
1	h	131	LYS	C-N	6.48	1.42	1.33
1	2	230	VAL	CA-CB	6.48	1.62	1.54
1	go	131	LYS	CA-C	6.48	1.61	1.52
1	1G	182	LYS	N-CA	-6.48	1.38	1.46
1	h9	165	VAL	N-CA	-6.48	1.38	1.46
1	hi	230	VAL	CA-CB	6.48	1.62	1.53
1	hH	91	ILE	CA-C	6.48	1.60	1.52
1	il	70	LYS	CA-CB	6.48	1.63	1.53
1	j8	229	ARG	C-N	6.48	1.41	1.33
1	je	226	HIS	CA-C	6.48	1.61	1.52
1	1V	101	GLY	CA-C	-6.48	1.42	1.51
1	jx	107	THR	CA-C	6.48	1.61	1.52
1	jA	63	GLN	CA-C	-6.48	1.44	1.52
1	kb	65	ALA	CA-C	-6.48	1.44	1.52
1	kh	172	LEU	CA-C	6.48	1.61	1.52
1	kp	157	PRO	CA-C	-6.48	1.42	1.52
1	kI	76	GLU	N-CA	-6.48	1.38	1.46
1	27	132	ARG	CA-C	6.48	1.61	1.52
1	lj	120	HIS	CE1-NE2	6.48	1.39	1.32
1	lO	150	ILE	CA-C	6.48	1.61	1.52
1	2f	122	PRO	CA-CB	6.48	1.65	1.53
1	2p	131	LYS	CA-C	-6.48	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2y	25	LYS	CA-C	6.48	1.60	1.52
1	3h	87	HIS	CB-CG	6.48	1.59	1.50
1	3k	62	HIS	CE1-NE2	6.48	1.39	1.32
1	3S	23	TRP	CA-CB	6.48	1.63	1.53
1	4V	29	GLU	N-CA	-6.48	1.37	1.46
1	5f	99	PRO	CA-C	6.48	1.60	1.52
1	5g	105	ALA	CA-CB	6.48	1.64	1.53
1	5h	135	ILE	C-N	6.48	1.42	1.34
1	5l	80	TRP	CD2-CE2	6.48	1.52	1.41
1	6k	162	ARG	CZ-NH2	-6.48	1.25	1.33
1	6P	143	ARG	C-N	6.48	1.42	1.33
1	6S	218	CYS	CA-C	-6.48	1.45	1.53
1	6W	125	PRO	N-CD	6.48	1.56	1.47
1	70	147	PRO	C-N	6.48	1.41	1.33
1	75	189	LEU	N-CA	6.48	1.54	1.46
1	7p	74	ASN	CA-CB	6.48	1.63	1.53
1	88	85	PRO	N-CA	-6.48	1.39	1.47
1	8l	197	ASP	CA-C	6.48	1.61	1.52
1	8G	154	ARG	CA-C	-6.48	1.44	1.52
1	97	3	VAL	CA-CB	-6.48	1.45	1.54
1	9g	28	GLU	C-N	6.48	1.42	1.33
1	9j	23	TRP	CA-CB	6.48	1.63	1.53
1	9o	12	HIS	C-N	-6.48	1.25	1.33
1	9L	10	MET	CA-C	6.48	1.60	1.52
1	aI	43	LEU	CA-CB	6.48	1.64	1.53
1	aQ	112	GLN	N-CA	-6.48	1.38	1.46
1	aY	133	TRP	NE1-CE2	-6.48	1.30	1.37
1	do	104	ILE	CA-CB	-6.48	1.46	1.54
1	du	21	ASN	CA-C	-6.48	1.44	1.52
1	eT	129	ILE	C-N	6.48	1.42	1.33
1	fp	62	HIS	CA-CB	6.48	1.63	1.53
1	R	137	GLY	N-CA	-6.48	1.37	1.45
1	gv	161	PHE	CA-CB	6.48	1.63	1.53
1	hK	8	GLY	C-N	6.48	1.42	1.33
1	i5	108	THR	C-N	6.48	1.42	1.33
1	iO	180	GLU	N-CA	6.48	1.54	1.46
1	ji	219	GLN	CA-C	6.48	1.60	1.52
1	ki	162	ARG	CD-NE	6.48	1.55	1.46
1	2r	125	PRO	CA-CB	6.48	1.61	1.53
1	2y	167	ARG	CD-NE	6.48	1.55	1.46
1	3a	96	MET	C-N	6.48	1.41	1.33
1	3b	180	GLU	C-N	6.48	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3d	161	PHE	CA-CB	6.48	1.63	1.53
1	3y	195	ASN	CA-CB	6.48	1.63	1.53
1	44	80	TRP	N-CA	-6.48	1.38	1.46
1	7w	71	GLU	C-O	-6.48	1.16	1.24
1	8o	85	PRO	CA-CB	-6.48	1.45	1.53
1	9g	223	GLY	N-CA	-6.48	1.35	1.44
1	9C	94	GLY	CA-C	6.48	1.60	1.51
1	bg	211	LEU	CA-CB	6.48	1.64	1.53
1	cF	133	TRP	C-N	6.48	1.42	1.33
1	cY	28	GLU	CA-C	-6.48	1.44	1.52
1	e3	109	SER	CA-C	-6.48	1.44	1.52
1	fX	143	ARG	CD-NE	6.48	1.55	1.46
1	X	115	ILE	C-N	6.48	1.41	1.33
1	gx	117	TRP	NE1-CE2	-6.47	1.30	1.37
1	gD	12	HIS	ND1-CE1	6.47	1.39	1.32
1	hc	68	MET	C-N	-6.47	1.25	1.33
1	ix	17	PRO	C-N	6.47	1.42	1.33
1	ix	97	ARG	CD-NE	6.47	1.55	1.46
1	iA	218	CYS	C-N	6.47	1.42	1.33
1	j2	35	GLU	C-O	-6.47	1.15	1.24
1	jx	214	MET	CA-C	-6.47	1.43	1.52
1	jW	216	THR	N-CA	6.47	1.54	1.46
1	kC	186	THR	N-CA	6.47	1.54	1.46
1	2d	40	PHE	N-CA	-6.47	1.38	1.46
1	2U	53	ASN	CA-C	6.47	1.61	1.52
1	38	117	TRP	N-CA	-6.47	1.38	1.46
1	3A	196	PRO	CA-C	6.47	1.61	1.52
1	3E	140	LYS	C-N	6.47	1.42	1.33
1	4N	181	VAL	N-CA	-6.47	1.38	1.46
1	4R	164	TYR	C-N	6.47	1.42	1.33
1	5C	143	ARG	CD-NE	6.47	1.55	1.46
1	6f	47	ALA	N-CA	-6.47	1.38	1.46
1	6q	40	PHE	C-N	6.47	1.42	1.33
1	7a	66	MET	CA-C	-6.47	1.44	1.52
1	7h	67	GLN	CA-CB	6.47	1.63	1.53
1	7u	87	HIS	CE1-NE2	-6.47	1.26	1.32
1	7P	24	VAL	CA-C	6.47	1.60	1.52
1	8Q	178	SER	CA-C	6.47	1.61	1.52
1	9e	169	TYR	CA-C	6.47	1.61	1.52
1	ak	97	ARG	C-N	6.47	1.43	1.33
1	ak	165	VAL	N-CA	-6.47	1.38	1.46
1	bl	82	ARG	CA-CB	6.47	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dU	99	PRO	CA-CB	-6.47	1.45	1.53
1	eB	142	VAL	N-CA	-6.47	1.39	1.46
1	eF	229	ARG	N-CA	6.47	1.54	1.46
1	fe	78	ALA	CA-CB	6.47	1.63	1.53
1	fk	51	ASP	N-CA	6.47	1.54	1.46
1	m	63	GLN	C-N	-6.47	1.25	1.33
1	D	151	LEU	N-CA	-6.47	1.37	1.46
1	gY	199	LYS	CA-C	6.47	1.61	1.52
1	i5	182	LYS	CA-CB	6.47	1.63	1.53
1	je	229	ARG	CD-NE	6.47	1.55	1.46
1	jR	72	THR	C-O	-6.47	1.16	1.24
1	kc	133	TRP	C-N	6.47	1.42	1.33
1	25	189	LEU	CA-C	6.47	1.61	1.52
1	ly	22	ALA	C-N	6.47	1.42	1.33
1	2n	143	ARG	C-O	-6.47	1.16	1.24
1	2y	174	ALA	CA-C	6.47	1.61	1.52
1	2A	37	ILE	CA-C	6.47	1.59	1.52
1	4W	101	GLY	CA-C	-6.47	1.44	1.52
1	4Y	58	THR	CA-CB	6.47	1.63	1.53
1	52	101	GLY	CA-C	-6.47	1.44	1.52
1	5E	158	LYS	CA-C	-6.47	1.44	1.52
1	6I	201	ILE	CA-CB	-6.47	1.46	1.54
1	6P	197	ASP	CA-C	6.47	1.61	1.52
1	7f	215	MET	N-CA	-6.47	1.38	1.46
1	7D	72	THR	C-N	6.47	1.42	1.33
1	7Y	230	VAL	CA-CB	6.47	1.61	1.54
1	8l	1	PRO	CA-C	-6.47	1.39	1.52
1	8p	132	ARG	CD-NE	6.47	1.55	1.46
1	8E	9	GLN	CA-C	6.47	1.61	1.53
1	8O	107	THR	CA-C	-6.47	1.44	1.52
1	8R	153	ILE	N-CA	-6.47	1.39	1.46
1	97	84	HIS	CD2-NE2	6.47	1.45	1.37
1	9B	146	SER	CA-C	6.47	1.59	1.53
1	a2	78	ALA	N-CA	-6.47	1.38	1.46
1	a7	126	VAL	CA-CB	-6.47	1.46	1.54
1	ac	222	GLY	N-CA	6.47	1.54	1.45
1	ak	116	GLY	CA-C	6.47	1.59	1.52
1	aO	20	LEU	CA-C	6.47	1.61	1.52
1	c7	109	SER	N-CA	6.47	1.53	1.46
1	cB	112	GLN	C-N	6.47	1.42	1.33
1	cN	111	LEU	C-O	-6.47	1.16	1.24
1	d8	172	LEU	CA-C	6.47	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dp	14	ALA	C-O	-6.47	1.16	1.23
1	dW	218	CYS	CA-CB	6.47	1.62	1.53
1	e3	12	HIS	C-O	-6.47	1.15	1.23
1	f0	1	PRO	N-CA	6.47	1.56	1.47
1	1w	82	ARG	CZ-NH2	-6.47	1.25	1.33
1	fz	154	ARG	CD-NE	6.47	1.55	1.46
1	1z	213	GLU	N-CA	-6.47	1.38	1.46
1	T	142	VAL	CA-CB	-6.47	1.46	1.54
1	hO	12	HIS	C-N	6.47	1.42	1.33
1	jD	162	ARG	NE-CZ	6.47	1.40	1.33
1	2u	191	VAL	CA-C	6.47	1.60	1.52
1	2x	189	LEU	C-O	-6.47	1.16	1.24
1	3u	24	VAL	CA-CB	-6.47	1.46	1.54
1	4k	30	LYS	CA-CB	6.47	1.63	1.54
1	5y	22	ALA	CA-C	6.47	1.61	1.52
1	6N	165	VAL	C-O	-6.47	1.16	1.24
1	7l	131	LYS	CA-C	-6.47	1.44	1.52
1	15	144	MET	CA-CB	6.47	1.63	1.53
1	bW	167	ARG	CA-CB	6.47	1.63	1.53
1	d1	137	GLY	CA-C	6.47	1.59	1.51
1	gr	77	ALA	N-CA	-6.47	1.38	1.46
1	h7	21	ASN	CA-CB	6.47	1.63	1.53
1	hR	192	GLN	N-CA	-6.47	1.38	1.46
1	iA	172	LEU	N-CA	-6.47	1.38	1.46
1	iU	133	TRP	C-N	6.47	1.42	1.33
1	j3	20	LEU	N-CA	-6.47	1.38	1.46
1	ka	37	ILE	C-N	6.47	1.42	1.34
1	kz	170	LYS	CA-C	-6.47	1.44	1.52
1	24	56	LEU	CA-C	6.47	1.61	1.52
1	kX	204	ALA	CA-C	6.47	1.61	1.52
1	lF	47	ALA	C-O	-6.47	1.16	1.23
1	lL	184	TRP	CA-CB	6.47	1.63	1.53
1	4V	139	ASN	CA-C	6.47	1.61	1.52
1	5l	113	GLU	CA-CB	6.47	1.63	1.53
1	5Q	37	ILE	N-CA	6.47	1.54	1.46
1	67	116	GLY	CA-C	6.47	1.59	1.52
1	6c	25	LYS	N-CA	-6.47	1.38	1.46
1	73	68	MET	CA-C	-6.47	1.44	1.52
1	7E	142	VAL	CA-C	-6.47	1.44	1.52
1	7O	85	PRO	CA-C	-6.47	1.43	1.52
1	7X	182	LYS	N-CA	-6.47	1.38	1.46
1	7Y	37	ILE	CA-CB	6.47	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8R	62	HIS	CG-CD2	6.47	1.43	1.35
1	9W	172	LEU	C-N	6.47	1.42	1.33
1	aj	13	GLN	CA-CB	6.47	1.63	1.53
1	aE	116	GLY	N-CA	6.47	1.53	1.45
1	aP	146	SER	C-N	6.47	1.42	1.34
1	bd	12	HIS	ND1-CE1	6.47	1.39	1.32
1	bJ	14	ALA	N-CA	6.47	1.54	1.46
1	c2	69	LEU	N-CA	6.47	1.54	1.46
1	ca	62	HIS	CE1-NE2	6.47	1.39	1.32
1	cz	73	ILE	CA-C	6.47	1.60	1.52
1	cJ	192	GLN	N-CA	6.47	1.54	1.46
1	d4	27	VAL	N-CA	-6.47	1.38	1.46
1	d8	27	VAL	CA-C	6.47	1.61	1.52
1	dH	224	PRO	N-CA	-6.47	1.39	1.47
1	dU	91	ILE	CA-C	-6.47	1.45	1.52
1	ei	201	ILE	N-CA	6.47	1.54	1.46
1	eL	128	GLU	C-O	-6.47	1.16	1.24
1	eX	151	LEU	CA-CB	6.47	1.64	1.53
1	eY	221	VAL	C-O	-6.47	1.17	1.24
1	fG	145	TYR	N-CA	-6.47	1.39	1.46
1	D	169	TYR	CA-C	6.47	1.61	1.52
1	gz	3	VAL	N-CA	-6.47	1.39	1.46
1	hA	183	ASN	CA-CB	6.47	1.63	1.53
1	1S	59	VAL	CA-C	6.47	1.61	1.52
1	kW	49	PRO	N-CD	-6.47	1.38	1.47
1	l3	154	ARG	N-CA	-6.47	1.37	1.45
1	lb	8	GLY	C-O	-6.47	1.15	1.23
1	lJ	226	HIS	ND1-CE1	6.47	1.39	1.32
1	3R	205	LEU	CA-C	6.47	1.61	1.52
1	52	32	PHE	N-CA	6.47	1.53	1.46
1	57	35	GLU	N-CA	-6.47	1.37	1.46
1	6h	6	LEU	CA-CB	6.47	1.65	1.53
1	7I	178	SER	CA-C	6.47	1.60	1.52
1	8p	177	ALA	C-N	6.47	1.42	1.33
1	8y	53	ASN	CA-C	-6.47	1.44	1.52
1	bo	12	HIS	ND1-CE1	6.47	1.39	1.32
1	bW	75	GLU	CA-C	6.47	1.61	1.52
1	cp	79	GLU	C-N	6.47	1.41	1.33
1	dF	33	SER	N-CA	6.47	1.51	1.45
1	en	10	MET	CA-CB	6.47	1.64	1.53
1	eU	218	CYS	C-N	6.47	1.42	1.33
1	fu	226	HIS	ND1-CE1	6.47	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	132	ARG	CD-NE	6.47	1.55	1.46
1	gu	38	PRO	CA-CB	6.47	1.62	1.53
1	1F	124	ILE	N-CA	-6.47	1.41	1.46
1	gN	31	ALA	CA-C	6.47	1.61	1.52
1	h1	121	ASN	CA-C	6.47	1.60	1.52
1	h9	113	GLU	CA-C	-6.47	1.44	1.52
1	hs	204	ALA	C-N	6.47	1.42	1.33
1	j3	76	GLU	C-O	6.47	1.31	1.24
1	jd	81	ASP	CA-CB	6.47	1.63	1.53
1	1Z	87	HIS	CG-ND1	-6.47	1.31	1.38
1	kb	80	TRP	NE1-CE2	-6.47	1.30	1.37
1	kp	154	ARG	CD-NE	6.47	1.55	1.46
1	kS	130	TYR	CA-CB	6.47	1.63	1.53
1	lc	143	ARG	CA-CB	6.47	1.63	1.53
1	lf	16	SER	CA-C	6.47	1.60	1.53
1	lr	39	MET	CA-C	-6.47	1.44	1.52
1	2O	96	MET	C-N	6.47	1.42	1.33
1	2V	147	PRO	CA-C	6.47	1.61	1.52
1	2Y	226	HIS	ND1-CE1	6.47	1.39	1.32
1	30	39	MET	CA-C	-6.47	1.44	1.52
1	3l	143	ARG	CA-CB	6.47	1.63	1.53
1	3x	205	LEU	N-CA	-6.47	1.37	1.46
1	4z	37	ILE	C-O	-6.47	1.18	1.24
1	5e	149	SER	CA-C	6.47	1.61	1.52
1	5P	191	VAL	CA-C	6.47	1.61	1.52
1	7d	135	ILE	CA-CB	-6.47	1.46	1.54
1	7A	229	ARG	CD-NE	6.47	1.55	1.46
1	8V	39	MET	C-N	6.47	1.42	1.33
1	9w	84	HIS	CA-C	-6.47	1.46	1.53
1	9Q	160	PRO	CA-CB	6.47	1.61	1.53
1	ar	98	GLU	CA-CB	6.47	1.63	1.53
1	ax	202	LEU	N-CA	6.47	1.54	1.46
1	aF	52	LEU	CA-C	6.47	1.61	1.52
1	aP	70	LYS	CA-CB	6.47	1.63	1.53
1	b4	184	TRP	NE1-CE2	-6.47	1.30	1.37
1	bp	167	ARG	N-CA	-6.47	1.38	1.46
1	cB	165	VAL	CA-CB	6.47	1.61	1.54
1	cP	167	ARG	CD-NE	6.47	1.55	1.46
1	do	122	PRO	CA-CB	6.47	1.65	1.53
1	dE	87	HIS	CB-CG	-6.47	1.41	1.50
1	dJ	195	ASN	CA-C	6.47	1.60	1.52
1	dX	163	ASP	CA-C	6.47	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eL	103	ASP	CA-CB	6.47	1.63	1.53
1	eN	140	LYS	CA-CB	6.47	1.63	1.53
1	eQ	143	ARG	CD-NE	6.47	1.55	1.46
1	f3	48	THR	N-CA	6.47	1.51	1.45
1	fJ	191	VAL	CA-CB	-6.47	1.46	1.54
1	e	37	ILE	C-N	6.47	1.41	1.34
1	hf	175	GLU	CA-CB	6.46	1.63	1.54
1	hx	166	ASP	N-CA	-6.46	1.38	1.46
1	i8	218	CYS	CA-C	-6.46	1.44	1.52
1	ii	78	ALA	CA-C	-6.46	1.44	1.52
1	ii	138	LEU	CA-C	-6.46	1.44	1.52
1	jJ	224	PRO	CA-CB	6.46	1.62	1.53
1	jT	24	VAL	CA-C	6.46	1.60	1.52
1	jZ	132	ARG	CD-NE	6.46	1.55	1.46
1	jZ	180	GLU	CA-CB	6.46	1.64	1.53
1	kL	76	GLU	C-N	6.46	1.42	1.33
1	lh	90	PRO	CA-CB	-6.46	1.45	1.53
1	2L	90	PRO	CA-C	-6.46	1.44	1.52
1	2Z	95	GLN	CA-CB	6.46	1.63	1.53
1	2Z	221	VAL	CA-CB	-6.46	1.45	1.54
1	3o	21	ASN	C-N	6.46	1.42	1.33
1	45	136	LEU	CA-C	-6.46	1.44	1.52
1	66	16	SER	CA-CB	6.46	1.63	1.53
1	6W	209	ALA	N-CA	-6.46	1.38	1.46
1	7a	50	GLN	C-N	6.46	1.42	1.33
1	7p	71	GLU	CA-CB	6.46	1.63	1.53
1	7M	96	MET	N-CA	-6.46	1.38	1.46
1	7X	107	THR	CA-C	6.46	1.61	1.52
1	8n	222	GLY	CA-C	-6.46	1.42	1.51
1	9j	77	ALA	CA-CB	6.46	1.63	1.53
1	a9	72	THR	N-CA	6.46	1.54	1.46
1	aR	4	GLN	CA-C	-6.46	1.44	1.52
1	aZ	25	LYS	C-N	6.46	1.41	1.33
1	c0	125	PRO	CA-CB	6.46	1.58	1.53
1	d6	87	HIS	ND1-CE1	6.46	1.39	1.32
1	eu	10	MET	C-N	6.46	1.41	1.33
1	eZ	135	ILE	C-O	-6.46	1.16	1.24
1	f2	32	PHE	C-N	6.46	1.40	1.33
1	f7	14	ALA	N-CA	6.46	1.54	1.46
1	fE	132	ARG	NE-CZ	-6.46	1.25	1.33
1	fG	59	VAL	C-N	6.46	1.43	1.33
1	g6	102	SER	CA-CB	6.46	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	0	103	ASP	N-CA	6.46	1.54	1.46
1	g	20	LEU	C-N	6.46	1.42	1.33
1	j	161	PHE	C-N	6.46	1.42	1.33
1	q	70	LYS	N-CA	-6.46	1.38	1.46
1	hf	124	ILE	CA-C	6.46	1.58	1.52
1	hu	179	GLN	N-CA	-6.46	1.38	1.46
1	hA	7	GLN	C-N	6.46	1.42	1.33
1	1P	91	ILE	N-CA	6.46	1.54	1.46
1	jo	216	THR	C-N	6.46	1.41	1.33
1	jK	62	HIS	CE1-NE2	6.46	1.39	1.32
1	k2	193	ASN	C-N	6.46	1.41	1.33
1	kl	13	GLN	N-CA	6.46	1.54	1.45
1	lb	125	PRO	N-CA	-6.46	1.39	1.47
1	45	75	GLU	CA-CB	6.46	1.63	1.53
1	85	100	ARG	CA-CB	6.46	1.62	1.53
1	9R	64	ALA	N-CA	-6.46	1.38	1.46
1	9U	138	LEU	C-N	6.46	1.42	1.33
1	a0	139	ASN	CA-C	6.46	1.61	1.52
1	a3	171	THR	C-N	6.46	1.42	1.34
1	b2	189	LEU	C-N	6.46	1.42	1.34
1	bg	115	ILE	C-N	6.46	1.41	1.33
1	bm	45	GLU	CA-CB	6.46	1.61	1.53
1	bz	63	GLN	C-N	6.46	1.42	1.33
1	cC	23	TRP	C-N	6.46	1.42	1.33
1	dc	45	GLU	CA-C	6.46	1.61	1.52
1	1n	230	VAL	CA-C	6.46	1.60	1.52
1	H	84	HIS	C-O	-6.46	1.21	1.23
1	ga	168	PHE	CA-C	-6.46	1.44	1.52
1	gk	156	GLY	N-CA	6.46	1.53	1.44
1	gM	208	ALA	C-N	6.46	1.42	1.33
1	gP	196	PRO	N-CD	-6.46	1.38	1.47
1	hx	167	ARG	CD-NE	6.46	1.55	1.46
1	hN	226	HIS	CD2-NE2	6.46	1.45	1.37
1	hW	120	HIS	CA-CB	6.46	1.63	1.53
1	i4	177	ALA	C-O	6.46	1.31	1.23
1	iJ	172	LEU	N-CA	-6.46	1.37	1.46
1	iQ	143	ARG	CA-C	6.46	1.62	1.52
1	j4	29	GLU	CA-CB	6.46	1.63	1.53
1	jI	215	MET	N-CA	-6.46	1.37	1.46
1	jQ	63	GLN	CA-CB	6.46	1.64	1.53
1	kG	39	MET	CA-C	6.46	1.61	1.52
1	lg	226	HIS	CG-ND1	-6.46	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	29	130	TYR	CA-CB	6.46	1.63	1.53
1	lH	4	GLN	CA-CB	6.46	1.64	1.53
1	2b	62	HIS	CE1-NE2	6.46	1.39	1.32
1	3S	53	ASN	C-O	-6.46	1.16	1.24
1	5l	167	ARG	CD-NE	6.46	1.55	1.46
1	61	204	ALA	C-N	6.46	1.42	1.33
1	6o	40	PHE	CA-CB	6.46	1.63	1.53
1	7v	105	ALA	C-N	6.46	1.40	1.33
1	7W	222	GLY	N-CA	6.46	1.56	1.45
1	82	189	LEU	CA-C	6.46	1.61	1.52
1	84	20	LEU	C-O	-6.46	1.16	1.24
1	8d	14	ALA	CA-C	6.46	1.61	1.52
1	8z	218	CYS	CA-CB	6.46	1.62	1.53
1	8W	120	HIS	CG-ND1	-6.46	1.31	1.38
1	aI	33	SER	CA-CB	6.46	1.63	1.53
1	b0	53	ASN	CA-C	6.46	1.61	1.52
1	b1	68	MET	N-CA	6.46	1.54	1.46
1	bB	86	VAL	N-CA	-6.46	1.38	1.46
1	bM	135	ILE	N-CA	6.46	1.54	1.46
1	cy	57	ASN	N-CA	6.46	1.54	1.46
1	cz	88	ALA	N-CA	6.46	1.54	1.45
1	e4	176	GLN	N-CA	6.46	1.54	1.46
1	e5	23	TRP	NE1-CE2	-6.46	1.30	1.37
1	eg	141	ILE	N-CA	-6.46	1.39	1.46
1	eI	53	ASN	CA-CB	6.46	1.63	1.53
1	fG	223	GLY	C-N	6.46	1.39	1.33
1	I	175	GLU	CA-CB	6.46	1.62	1.53
1	gL	143	ARG	CA-C	-6.46	1.43	1.52
1	hv	32	PHE	CA-CB	6.46	1.61	1.53
1	hM	100	ARG	CD-NE	6.46	1.55	1.46
1	i9	96	MET	CA-C	-6.46	1.45	1.52
1	jw	156	GLY	C-N	6.46	1.42	1.34
1	jC	15	ILE	CA-CB	6.46	1.61	1.53
1	jQ	108	THR	N-CA	-6.46	1.39	1.46
1	kX	20	LEU	CA-CB	6.46	1.63	1.53
1	2u	191	VAL	CA-CB	-6.46	1.46	1.54
1	3e	21	ASN	CA-C	6.46	1.61	1.52
1	7v	8	GLY	CA-C	-6.46	1.43	1.51
1	7Y	114	GLN	N-CA	6.46	1.54	1.46
1	82	75	GLU	N-CA	6.46	1.54	1.46
1	b7	105	ALA	CA-CB	-6.46	1.43	1.53
1	ca	167	ARG	CA-C	-6.46	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d9	230	VAL	CA-C	6.46	1.62	1.53
1	ec	227	LYS	CA-CB	6.46	1.62	1.53
1	C	45	GLU	CA-C	6.46	1.61	1.52
1	J	91	ILE	CA-CB	6.46	1.62	1.54
1	O	74	ASN	N-CA	-6.46	1.38	1.46
1	h7	119	THR	CA-C	-6.46	1.44	1.52
1	hf	144	MET	CA-C	6.46	1.60	1.52
1	hP	229	ARG	CZ-NH2	-6.46	1.25	1.33
1	hX	20	LEU	CA-C	6.46	1.61	1.52
1	i8	220	GLY	CA-C	-6.46	1.42	1.51
1	iG	97	ARG	CD-NE	6.46	1.55	1.46
1	jb	54	THR	CA-C	6.46	1.61	1.52
1	jc	54	THR	CA-CB	6.46	1.63	1.53
1	1V	77	ALA	C-N	-6.46	1.25	1.33
1	kq	90	PRO	CA-CB	6.46	1.62	1.53
1	kB	226	HIS	CG-CD2	-6.46	1.28	1.35
1	kY	125	PRO	CA-CB	6.46	1.62	1.53
1	l0	209	ALA	C-O	6.46	1.31	1.23
1	2g	131	LYS	N-CA	6.46	1.54	1.46
1	3h	78	ALA	C-N	6.46	1.42	1.33
1	3i	164	TYR	CA-C	6.46	1.61	1.52
1	3J	90	PRO	CA-C	6.46	1.60	1.52
1	58	183	ASN	CA-CB	6.46	1.63	1.53
1	5d	135	ILE	CA-CB	6.46	1.61	1.54
1	5M	1	PRO	CA-CB	6.46	1.66	1.53
1	5Z	141	ILE	CA-CB	-6.46	1.46	1.54
1	6p	72	THR	C-N	6.46	1.42	1.33
1	6v	87	HIS	CB-CG	-6.46	1.41	1.50
1	6y	86	VAL	CA-CB	6.46	1.62	1.54
1	6U	226	HIS	CG-ND1	6.46	1.45	1.38
1	7n	57	ASN	C-N	6.46	1.42	1.33
1	7A	181	VAL	N-CA	-6.46	1.38	1.46
1	88	183	ASN	N-CA	-6.46	1.38	1.46
1	8i	75	GLU	CA-CB	6.46	1.64	1.53
1	94	14	ALA	C-N	6.46	1.42	1.33
1	9y	82	ARG	CD-NE	6.46	1.55	1.46
1	ad	9	GLN	CA-C	6.46	1.60	1.52
1	bV	226	HIS	N-CA	6.46	1.54	1.45
1	bY	152	ASP	C-N	6.46	1.42	1.33
1	cK	225	GLY	CA-C	-6.46	1.43	1.51
1	cL	12	HIS	CB-CG	6.46	1.59	1.50
1	d4	100	ARG	CD-NE	6.46	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d6	195	ASN	CA-CB	6.46	1.62	1.53
1	e1	12	HIS	CD2-NE2	6.46	1.45	1.37
1	e5	226	HIS	N-CA	6.46	1.54	1.46
1	1p	136	LEU	CA-C	-6.46	1.44	1.52
1	ee	146	SER	N-CA	-6.46	1.40	1.46
1	fi	1	PRO	N-CA	6.46	1.56	1.47
1	fk	87	HIS	CB-CG	6.46	1.59	1.50
1	fr	177	ALA	C-N	6.46	1.42	1.33
1	B	124	ILE	N-CA	-6.46	1.41	1.46
1	6	87	HIS	C-N	6.46	1.42	1.33
1	gh	3	VAL	CA-C	-6.46	1.45	1.52
1	hg	12	HIS	CA-C	6.46	1.60	1.52
1	hr	9	GLN	CA-C	-6.46	1.44	1.52
1	ih	142	VAL	CA-CB	6.46	1.61	1.54
1	iy	212	GLU	CA-C	6.46	1.61	1.52
1	iF	16	SER	CA-CB	6.46	1.64	1.52
1	22	84	HIS	CD2-NE2	6.46	1.45	1.37
1	kC	121	ASN	CA-C	6.46	1.59	1.52
1	kJ	37	ILE	CA-CB	6.46	1.57	1.54
1	kJ	133	TRP	C-N	6.46	1.42	1.33
1	28	137	GLY	CA-C	-6.46	1.44	1.51
1	ly	52	LEU	CA-CB	6.46	1.63	1.53
1	3K	171	THR	CA-C	6.46	1.61	1.52
1	3K	200	THR	C-N	6.46	1.42	1.33
1	3O	171	THR	N-CA	-6.46	1.38	1.46
1	53	11	VAL	C-N	6.46	1.41	1.33
1	6F	101	GLY	C-N	6.46	1.42	1.33
1	88	129	ILE	CA-CB	-6.46	1.46	1.54
1	8H	36	VAL	CA-C	6.46	1.60	1.52
1	9x	92	GLU	CA-C	6.46	1.61	1.53
1	9E	177	ALA	N-CA	-6.46	1.38	1.46
1	9X	126	VAL	N-CA	-6.46	1.39	1.46
1	a4	167	ARG	CD-NE	6.46	1.55	1.46
1	ac	121	ASN	CA-C	6.46	1.59	1.52
1	aP	121	ASN	CA-C	6.46	1.59	1.52
1	b9	35	GLU	C-N	6.46	1.41	1.33
1	b9	166	ASP	CA-CB	6.46	1.63	1.53
1	cd	27	VAL	C-O	-6.46	1.16	1.24
1	cm	230	VAL	CA-C	6.46	1.59	1.53
1	cV	52	LEU	CA-CB	6.46	1.63	1.53
1	e0	126	VAL	N-CA	-6.46	1.39	1.46
1	ed	20	LEU	N-CA	6.46	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eB	157	PRO	CA-C	6.46	1.62	1.52
1	f5	41	SER	N-CA	6.46	1.54	1.46
1	f6	96	MET	CA-C	6.46	1.61	1.52
1	f7	38	PRO	CA-CB	6.46	1.63	1.53
1	fp	198	CYS	CA-C	6.46	1.61	1.52
1	fx	3	VAL	C-O	-6.46	1.17	1.24
1	g7	69	LEU	C-N	6.46	1.42	1.33
1	P	72	THR	C-N	6.46	1.42	1.33
1	R	124	ILE	CA-C	6.46	1.58	1.53
1	gz	142	VAL	N-CA	6.46	1.54	1.46
1	gA	175	GLU	CA-C	6.46	1.60	1.52
1	iV	121	ASN	CA-CB	6.46	1.60	1.53
1	jY	152	ASP	CA-C	6.46	1.61	1.52
1	kc	97	ARG	CA-CB	6.46	1.64	1.53
1	3c	69	LEU	CA-C	-6.46	1.44	1.52
1	3A	7	GLN	C-N	6.46	1.43	1.33
1	5Y	33	SER	CA-CB	6.46	1.63	1.54
1	cb	123	PRO	C-N	6.46	1.40	1.33
1	1f	87	HIS	ND1-CE1	6.46	1.39	1.32
1	dH	12	HIS	CD2-NE2	6.46	1.45	1.37
1	dL	84	HIS	CA-CB	6.46	1.62	1.53
1	hc	182	LYS	CA-C	6.45	1.61	1.52
1	i8	26	VAL	C-N	6.45	1.42	1.33
1	jj	88	ALA	CA-C	6.45	1.61	1.52
1	kh	42	ALA	N-CA	-6.45	1.38	1.46
1	2C	132	ARG	CA-CB	6.45	1.63	1.53
1	3S	154	ARG	N-CA	6.45	1.54	1.45
1	4j	119	THR	CA-CB	-6.45	1.43	1.53
1	4u	87	HIS	CE1-NE2	-6.45	1.26	1.32
1	4v	4	GLN	N-CA	-6.45	1.38	1.46
1	50	84	HIS	CB-CG	-6.45	1.41	1.50
1	5q	37	ILE	CA-C	6.45	1.59	1.52
1	5E	138	LEU	N-CA	-6.45	1.38	1.46
1	6C	181	VAL	CA-CB	6.45	1.62	1.54
1	6S	186	THR	N-CA	6.45	1.54	1.46
1	7p	176	GLN	CA-C	-6.45	1.44	1.52
1	7V	82	ARG	CA-CB	6.45	1.64	1.53
1	8E	156	GLY	C-N	-6.45	1.27	1.33
1	a2	173	ARG	CA-CB	6.45	1.64	1.53
1	a6	145	TYR	CA-C	6.45	1.62	1.52
1	ae	95	GLN	CA-CB	6.45	1.62	1.53
1	aB	205	LEU	CA-CB	6.45	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	14	77	ALA	N-CA	-6.45	1.38	1.46
1	c0	221	VAL	CA-C	6.45	1.58	1.52
1	cn	47	ALA	CA-CB	6.45	1.62	1.53
1	cr	105	ALA	C-N	6.45	1.40	1.33
1	ds	23	TRP	N-CA	-6.45	1.38	1.46
1	dH	3	VAL	CA-C	6.45	1.60	1.52
1	dN	193	ASN	C-N	6.45	1.41	1.33
1	eq	211	LEU	CA-CB	6.45	1.63	1.53
1	et	175	GLU	CA-CB	6.45	1.62	1.53
1	f4	195	ASN	CA-CB	6.45	1.62	1.53
1	fi	134	ILE	N-CA	6.45	1.54	1.46
1	fC	28	GLU	CA-C	-6.45	1.44	1.52
1	fF	126	VAL	N-CA	-6.45	1.38	1.46
1	fG	65	ALA	N-CA	6.45	1.54	1.46
1	g5	198	CYS	CA-C	6.45	1.61	1.52
1	hh	43	LEU	CA-CB	6.45	1.65	1.53
1	hk	41	SER	N-CA	6.45	1.54	1.46
1	hL	108	THR	CA-C	-6.45	1.44	1.52
1	kH	84	HIS	ND1-CE1	6.45	1.39	1.32
1	l0	59	VAL	CA-CB	6.45	1.61	1.54
1	37	114	GLN	C-N	6.45	1.42	1.33
1	3E	117	TRP	NE1-CE2	-6.45	1.30	1.37
1	4K	133	TRP	CA-C	6.45	1.61	1.52
1	4T	84	HIS	ND1-CE1	6.45	1.39	1.32
1	5b	133	TRP	CA-C	-6.45	1.44	1.52
1	6W	120	HIS	CE1-NE2	6.45	1.39	1.32
1	7l	184	TRP	CA-CB	6.45	1.63	1.53
1	9a	185	MET	N-CA	6.45	1.54	1.46
1	ch	132	ARG	C-N	6.45	1.42	1.33
1	dN	12	HIS	N-CA	-6.45	1.38	1.46
1	e0	121	ASN	CA-C	6.45	1.61	1.52
1	eg	22	ALA	C-N	6.45	1.42	1.33
1	g0	18	ARG	CA-CB	6.45	1.63	1.53
1	y	19	THR	CA-C	6.45	1.61	1.52
1	gZ	133	TRP	C-O	-6.45	1.16	1.24
1	h2	126	VAL	C-O	-6.45	1.16	1.24
1	hJ	31	ALA	N-CA	-6.45	1.37	1.46
1	hP	37	ILE	CA-C	6.45	1.58	1.52
1	1Z	43	LEU	CA-CB	6.45	1.64	1.53
1	k6	177	ALA	CA-CB	-6.45	1.43	1.53
1	ll	153	ILE	N-CA	6.45	1.53	1.46
1	lr	211	LEU	N-CA	-6.45	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2C	117	TRP	NE1-CE2	-6.45	1.30	1.37
1	3V	130	TYR	CA-C	6.45	1.61	1.52
1	3X	8	GLY	C-N	6.45	1.42	1.33
1	4n	123	PRO	N-CD	6.45	1.56	1.47
1	4A	145	TYR	CA-C	6.45	1.60	1.52
1	57	75	GLU	CA-CB	6.45	1.63	1.53
1	5j	39	MET	CA-CB	6.45	1.63	1.53
1	67	226	HIS	CA-C	6.45	1.61	1.52
1	68	213	GLU	CA-CB	6.45	1.63	1.53
1	7t	136	LEU	CA-CB	6.45	1.63	1.53
1	8A	36	VAL	C-N	6.45	1.42	1.34
1	8C	71	GLU	N-CA	-6.45	1.38	1.46
1	9D	229	ARG	CD-NE	6.45	1.55	1.46
1	9R	166	ASP	N-CA	6.45	1.54	1.46
1	ar	224	PRO	CA-CB	-6.45	1.45	1.53
1	az	143	ARG	C-N	6.45	1.42	1.33
1	aM	96	MET	C-N	6.45	1.41	1.33
1	aR	183	ASN	N-CA	-6.45	1.38	1.46
1	bh	133	TRP	NE1-CE2	-6.45	1.30	1.37
1	bA	226	HIS	CD2-NE2	6.45	1.45	1.37
1	bT	120	HIS	CE1-NE2	6.45	1.39	1.32
1	cB	48	THR	CA-CB	6.45	1.62	1.53
1	cY	12	HIS	ND1-CE1	6.45	1.39	1.32
1	dm	128	GLU	N-CA	6.45	1.54	1.46
1	dt	100	ARG	CZ-NH1	-6.45	1.23	1.32
1	eS	164	TYR	CA-C	-6.45	1.44	1.52
1	fi	144	MET	CA-C	-6.45	1.44	1.52
1	fw	97	ARG	CA-CB	6.45	1.64	1.53
1	fO	180	GLU	CA-CB	6.45	1.63	1.53
1	1B	35	GLU	CA-C	6.45	1.61	1.52
1	c	37	ILE	N-CA	-6.45	1.39	1.46
1	u	146	SER	CA-CB	6.45	1.63	1.53
1	E	62	HIS	CA-CB	6.45	1.61	1.52
1	gA	97	ARG	CD-NE	6.45	1.55	1.46
1	1E	62	HIS	CD2-NE2	6.45	1.45	1.37
1	i0	84	HIS	C-N	-6.45	1.25	1.33
1	ig	131	LYS	CA-CB	6.45	1.63	1.53
1	ji	199	LYS	CA-CB	6.45	1.63	1.53
1	1V	120	HIS	CA-C	6.45	1.61	1.53
1	jB	120	HIS	ND1-CE1	6.45	1.39	1.32
1	jE	14	ALA	CA-C	6.45	1.60	1.52
1	kc	2	ILE	CA-C	-6.45	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lf	63	GLN	C-N	6.45	1.42	1.33
1	27	113	GLU	CA-CB	6.45	1.63	1.53
1	ls	2	ILE	N-CA	-6.45	1.39	1.46
1	2q	37	ILE	CA-C	6.45	1.58	1.52
1	4k	187	GLU	C-N	6.45	1.42	1.33
1	54	217	ALA	N-CA	-6.45	1.37	1.45
1	5l	145	TYR	N-CA	-6.45	1.37	1.46
1	6N	184	TRP	NE1-CE2	-6.45	1.30	1.37
1	7N	229	ARG	CD-NE	6.45	1.55	1.46
1	8j	102	SER	CA-CB	6.45	1.63	1.53
1	8A	82	ARG	NE-CZ	-6.45	1.25	1.33
1	8N	201	ILE	N-CA	6.45	1.54	1.46
1	8S	215	MET	N-CA	-6.45	1.37	1.46
1	9s	102	SER	CA-CB	6.45	1.63	1.53
1	ar	128	GLU	CA-C	6.45	1.61	1.52
1	ax	138	LEU	CA-CB	6.45	1.63	1.53
1	aC	218	CYS	CA-CB	6.45	1.62	1.53
1	aO	60	GLY	CA-C	6.45	1.59	1.52
1	b3	145	TYR	CA-CB	6.45	1.64	1.53
1	bs	219	GLN	CA-CB	6.45	1.63	1.53
1	cO	46	GLY	CA-C	-6.45	1.42	1.51
1	cR	40	PHE	CA-C	-6.45	1.44	1.52
1	dd	187	GLU	C-N	6.45	1.42	1.33
1	el	4	GLN	CA-CB	6.45	1.63	1.53
1	er	198	CYS	N-CA	6.45	1.54	1.46
1	eu	11	VAL	C-N	6.45	1.42	1.33
1	1s	195	ASN	CA-C	6.45	1.60	1.53
1	fh	21	ASN	CA-CB	6.45	1.63	1.53
1	ft	204	ALA	CA-C	6.45	1.61	1.52
1	fP	69	LEU	CA-C	6.45	1.61	1.52
1	fT	229	ARG	C-O	-6.45	1.16	1.23
1	fV	141	ILE	C-N	-6.45	1.26	1.34
1	f	138	LEU	N-CA	-6.45	1.38	1.46
1	2	56	LEU	CA-C	6.45	1.61	1.52
1	gP	154	ARG	CA-C	6.45	1.60	1.52
1	hh	20	LEU	C-N	6.45	1.42	1.33
1	kk	43	LEU	CA-C	6.45	1.61	1.52
1	kx	37	ILE	CA-C	6.45	1.59	1.52
1	lD	1	PRO	N-CA	6.45	1.56	1.47
1	2r	148	THR	CA-C	-6.45	1.44	1.52
1	2M	21	ASN	N-CA	6.45	1.54	1.46
1	4m	111	LEU	CA-C	6.45	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4w	78	ALA	CA-C	-6.45	1.44	1.52
1	5F	8	GLY	N-CA	-6.45	1.38	1.45
1	79	176	GLN	CA-C	6.45	1.61	1.52
1	7a	120	HIS	ND1-CE1	6.45	1.39	1.32
1	7r	11	VAL	CA-CB	-6.45	1.46	1.54
1	92	78	ALA	CA-C	6.45	1.61	1.52
1	Z	122	PRO	C-N	6.45	1.41	1.33
1	bw	114	GLN	CA-CB	6.45	1.63	1.53
1	bB	130	TYR	CA-CB	6.45	1.63	1.53
1	bI	4	GLN	CA-C	-6.45	1.44	1.52
1	bP	22	ALA	N-CA	6.45	1.54	1.46
1	d9	83	LEU	C-N	6.45	1.41	1.33
1	dL	120	HIS	ND1-CE1	6.45	1.39	1.32
1	dV	11	VAL	C-O	-6.45	1.17	1.24
1	gp	131	LYS	CA-C	-6.45	1.44	1.52
1	gK	134	ILE	C-N	6.45	1.41	1.33
1	h1	200	THR	C-N	6.45	1.42	1.33
1	hw	52	LEU	CA-CB	6.45	1.63	1.53
1	hF	226	HIS	C-N	6.45	1.42	1.33
1	jf	84	HIS	ND1-CE1	6.45	1.39	1.32
1	jh	68	MET	N-CA	-6.45	1.38	1.46
1	jm	140	LYS	CA-CB	6.45	1.63	1.53
1	jz	182	LYS	C-N	6.45	1.42	1.33
1	22	219	GLN	CA-C	-6.45	1.44	1.52
1	kO	224	PRO	C-N	6.45	1.43	1.33
1	lf	127	GLY	C-N	6.45	1.42	1.33
1	35	99	PRO	N-CD	-6.45	1.38	1.47
1	3t	94	GLY	CA-C	-6.45	1.43	1.52
1	46	179	GLN	C-N	6.45	1.42	1.33
1	46	180	GLU	N-CA	-6.45	1.38	1.46
1	4D	141	ILE	CA-CB	6.45	1.61	1.54
1	54	157	PRO	N-CA	-6.45	1.39	1.47
1	56	90	PRO	CA-C	6.45	1.60	1.52
1	5m	82	ARG	CD-NE	6.45	1.55	1.46
1	5u	167	ARG	C-N	6.45	1.41	1.33
1	6b	170	LYS	N-CA	6.45	1.54	1.46
1	81	100	ARG	CA-CB	6.45	1.63	1.53
1	8P	134	ILE	CA-CB	-6.45	1.46	1.54
1	8U	15	ILE	N-CA	6.45	1.54	1.46
1	9u	33	SER	C-N	-6.45	1.27	1.34
1	9C	63	GLN	CA-C	6.45	1.61	1.52
1	ac	95	GLN	CA-CB	6.45	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aR	95	GLN	CA-C	6.45	1.62	1.52
1	bb	181	VAL	N-CA	-6.45	1.38	1.46
1	bo	169	TYR	C-N	6.45	1.42	1.33
1	bs	227	LYS	CA-CB	6.45	1.62	1.53
1	bw	221	VAL	C-O	-6.45	1.17	1.24
1	bR	31	ALA	C-N	6.45	1.42	1.33
1	cC	56	LEU	C-N	6.45	1.42	1.33
1	d2	48	THR	CA-C	-6.45	1.44	1.53
1	fC	228	ALA	N-CA	6.45	1.54	1.46
1	g5	15	ILE	CA-C	6.45	1.60	1.52
1	gA	82	ARG	CD-NE	6.44	1.55	1.46
1	1O	230	VAL	N-CA	-6.44	1.38	1.46
1	iL	10	MET	C-N	6.44	1.42	1.33
1	jm	97	ARG	CD-NE	6.44	1.55	1.46
1	kp	197	ASP	N-CA	6.44	1.53	1.46
1	kt	23	TRP	NE1-CE2	6.44	1.44	1.37
1	ku	221	VAL	N-CA	-6.44	1.38	1.46
1	kM	113	GLU	N-CA	6.44	1.54	1.46
1	lo	19	THR	C-N	6.44	1.42	1.33
1	31	107	THR	C-N	6.44	1.43	1.33
1	3Q	29	GLU	CA-C	-6.44	1.44	1.52
1	4I	173	ARG	C-N	6.44	1.42	1.33
1	57	225	GLY	C-N	6.44	1.42	1.33
1	66	7	GLN	CA-C	-6.44	1.44	1.52
1	7A	161	PHE	C-N	6.44	1.42	1.33
1	8S	25	LYS	N-CA	-6.44	1.38	1.46
1	96	92	GLU	N-CA	6.44	1.53	1.45
1	bh	118	MET	CA-C	-6.44	1.44	1.52
1	1c	62	HIS	ND1-CE1	6.44	1.39	1.32
1	d9	227	LYS	N-CA	-6.44	1.37	1.45
1	g7	220	GLY	C-N	6.44	1.41	1.33
1	c	84	HIS	CA-C	6.44	1.58	1.53
1	gk	205	LEU	C-O	-6.44	1.15	1.24
1	gy	209	ALA	CA-C	6.44	1.61	1.52
1	gz	154	ARG	CD-NE	6.44	1.55	1.46
1	1E	32	PHE	CA-CB	6.44	1.61	1.53
1	gH	169	TYR	N-CA	-6.44	1.38	1.46
1	gP	202	LEU	CA-C	6.44	1.61	1.52
1	gY	123	PRO	C-N	-6.44	1.27	1.33
1	if	1	PRO	N-CD	6.44	1.56	1.47
1	if	172	LEU	CA-CB	6.44	1.64	1.53
1	j6	156	GLY	N-CA	6.44	1.54	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jG	143	ARG	CD-NE	6.44	1.55	1.46
1	jV	150	ILE	N-CA	-6.44	1.38	1.46
1	k5	222	GLY	C-N	6.44	1.43	1.33
1	kf	175	GLU	CA-CB	6.44	1.64	1.53
1	kW	24	VAL	N-CA	6.44	1.54	1.46
1	2B	97	ARG	CD-NE	6.44	1.55	1.46
1	2N	42	ALA	C-N	6.44	1.42	1.33
1	39	84	HIS	CE1-NE2	6.44	1.39	1.32
1	39	152	ASP	N-CA	6.44	1.54	1.46
1	3p	8	GLY	CA-C	6.44	1.59	1.52
1	5j	197	ASP	CA-C	6.44	1.61	1.52
1	5t	73	ILE	C-N	6.44	1.42	1.33
1	5C	156	GLY	N-CA	6.44	1.51	1.43
1	6Y	217	ALA	C-N	6.44	1.42	1.33
1	7x	160	PRO	N-CA	6.44	1.55	1.47
1	8j	191	VAL	CA-CB	-6.44	1.46	1.54
1	8y	69	LEU	CA-C	6.44	1.61	1.52
1	9r	4	GLN	CA-C	6.44	1.60	1.52
1	a8	42	ALA	CA-C	6.44	1.61	1.52
1	ah	13	GLN	N-CA	-6.44	1.38	1.46
1	aV	195	ASN	CA-CB	6.44	1.63	1.53
1	bl	172	LEU	CA-C	-6.44	1.44	1.52
1	by	90	PRO	CA-C	-6.44	1.45	1.52
1	bC	178	SER	N-CA	6.44	1.54	1.46
1	ce	109	SER	CA-C	-6.44	1.45	1.52
1	cO	153	ILE	CA-CB	-6.44	1.46	1.54
1	e1	37	ILE	CA-C	-6.44	1.46	1.52
1	1z	173	ARG	C-N	6.44	1.42	1.33
1	8	108	THR	CA-C	-6.44	1.44	1.52
1	h3	52	LEU	CA-C	6.44	1.61	1.52
1	hd	110	THR	C-N	6.44	1.42	1.33
1	hh	64	ALA	CA-CB	6.44	1.63	1.53
1	i7	14	ALA	C-N	6.44	1.42	1.33
1	i8	125	PRO	CA-CB	6.44	1.58	1.53
1	iZ	117	TRP	NE1-CE2	-6.44	1.30	1.37
1	j4	45	GLU	CA-CB	6.44	1.64	1.53
1	jz	128	GLU	C-N	6.44	1.41	1.33
1	jB	133	TRP	NE1-CE2	-6.44	1.30	1.37
1	jD	15	ILE	CA-CB	-6.44	1.47	1.54
1	jI	162	ARG	N-CA	6.44	1.54	1.46
1	4U	59	VAL	CA-CB	6.44	1.61	1.54
1	4W	227	LYS	CA-CB	6.44	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7J	8	GLY	N-CA	6.44	1.54	1.45
1	8R	153	ILE	CA-C	6.44	1.60	1.52
1	9t	79	GLU	CA-CB	6.44	1.63	1.53
1	9v	184	TRP	CA-C	6.44	1.61	1.52
1	11	127	GLY	N-CA	6.44	1.54	1.45
1	az	73	ILE	C-N	6.44	1.42	1.33
1	aO	84	HIS	CD2-NE2	-6.44	1.30	1.37
1	aP	62	HIS	C-N	6.44	1.43	1.33
1	b5	38	PRO	CA-C	6.44	1.62	1.52
1	bG	196	PRO	CA-CB	6.44	1.63	1.53
1	c3	151	LEU	N-CA	-6.44	1.38	1.46
1	dq	110	THR	CA-C	6.44	1.60	1.52
1	dr	132	ARG	NE-CZ	6.44	1.40	1.33
1	dx	226	HIS	CB-CG	6.44	1.59	1.50
1	e5	177	ALA	N-CA	-6.44	1.38	1.46
1	ev	23	TRP	C-N	6.44	1.42	1.33
1	p	149	SER	CA-CB	6.44	1.64	1.53
1	z	18	ARG	CA-C	6.44	1.60	1.52
1	Q	62	HIS	ND1-CE1	6.44	1.39	1.32
1	gb	126	VAL	CA-C	-6.44	1.44	1.52
1	gt	53	ASN	CA-CB	6.44	1.63	1.53
1	gG	141	ILE	CA-C	6.44	1.61	1.52
1	i1	27	VAL	CA-C	6.44	1.61	1.52
1	iW	166	ASP	CA-CB	6.44	1.63	1.53
1	2P	56	LEU	N-CA	6.44	1.54	1.46
1	2V	181	VAL	CA-C	-6.44	1.44	1.52
1	4G	148	THR	C-N	6.44	1.41	1.33
1	52	173	ARG	CZ-NH2	-6.44	1.25	1.33
1	54	199	LYS	N-CA	-6.44	1.38	1.46
1	6D	8	GLY	CA-C	-6.44	1.43	1.51
1	6Q	172	LEU	CA-CB	6.44	1.63	1.53
1	7s	117	TRP	N-CA	-6.44	1.38	1.46
1	7K	197	ASP	CA-C	6.44	1.60	1.52
1	89	123	PRO	CA-CB	6.44	1.62	1.53
1	8v	195	ASN	N-CA	6.44	1.53	1.45
1	8A	8	GLY	C-N	6.44	1.42	1.33
1	aa	128	GLU	CA-CB	6.44	1.63	1.53
1	be	69	LEU	CA-C	6.44	1.60	1.52
1	cP	119	THR	N-CA	6.44	1.54	1.45
1	db	164	TYR	C-N	6.44	1.42	1.33
1	et	41	SER	C-N	6.44	1.42	1.33
1	fM	12	HIS	CA-C	6.44	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	H	128	GLU	C-N	6.44	1.42	1.33
1	9	207	PRO	CA-C	6.44	1.61	1.52
1	g9	186	THR	CA-C	-6.44	1.44	1.52
1	gy	134	ILE	C-N	6.44	1.42	1.33
1	hn	69	LEU	N-CA	-6.44	1.38	1.46
1	hD	37	ILE	CB-CG1	6.44	1.66	1.53
1	i8	203	LYS	CA-C	6.44	1.61	1.52
1	ib	129	ILE	CA-C	6.44	1.61	1.52
1	iv	74	ASN	CA-C	6.44	1.60	1.52
1	iC	168	PHE	C-N	6.44	1.42	1.33
1	jA	131	LYS	C-N	6.44	1.42	1.33
1	jN	3	VAL	CA-CB	-6.44	1.47	1.54
1	jT	24	VAL	CA-CB	-6.44	1.47	1.54
1	k3	126	VAL	C-N	6.44	1.42	1.33
1	ki	195	ASN	CA-C	6.44	1.60	1.52
1	ky	83	LEU	C-O	-6.44	1.16	1.24
1	kR	135	ILE	CA-C	-6.44	1.44	1.52
1	l7	183	ASN	CA-CB	6.44	1.63	1.53
1	lg	226	HIS	ND1-CE1	6.44	1.39	1.32
1	lr	133	TRP	C-N	6.44	1.42	1.33
1	lE	62	HIS	CB-CG	-6.44	1.41	1.50
1	2a	159	GLU	CA-CB	6.44	1.63	1.53
1	2p	41	SER	CA-C	6.44	1.60	1.52
1	2t	150	ILE	CA-CB	-6.44	1.45	1.54
1	3h	179	GLN	CA-CB	6.44	1.64	1.53
1	3M	41	SER	CA-C	-6.44	1.44	1.52
1	3S	123	PRO	N-CA	-6.44	1.40	1.46
1	3U	139	ASN	CA-C	6.44	1.60	1.52
1	4o	219	GLN	CA-CB	6.44	1.64	1.53
1	4M	230	VAL	N-CA	6.44	1.54	1.46
1	4Z	70	LYS	C-N	6.44	1.42	1.34
1	5M	196	PRO	CA-CB	6.44	1.62	1.53
1	62	86	VAL	N-CA	6.44	1.54	1.46
1	65	3	VAL	C-N	6.44	1.42	1.33
1	68	183	ASN	N-CA	-6.44	1.38	1.46
1	6w	16	SER	CA-CB	6.44	1.62	1.53
1	70	180	GLU	C-O	-6.44	1.16	1.24
1	7B	87	HIS	ND1-CE1	6.44	1.39	1.32
1	7W	188	THR	N-CA	6.44	1.53	1.46
1	81	199	LYS	CA-C	6.44	1.60	1.52
1	8f	198	CYS	C-N	6.44	1.42	1.33
1	8N	126	VAL	C-O	6.44	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9G	110	THR	CA-C	-6.44	1.45	1.52
1	9R	138	LEU	CA-C	-6.44	1.44	1.52
1	aj	103	ASP	N-CA	-6.44	1.38	1.46
1	an	51	ASP	CA-CB	6.44	1.63	1.53
1	ar	224	PRO	N-CA	6.44	1.54	1.47
1	aO	120	HIS	CE1-NE2	-6.44	1.26	1.32
1	bc	172	LEU	CA-CB	6.44	1.63	1.53
1	c5	204	ALA	CA-CB	6.44	1.63	1.53
1	cO	191	VAL	CA-C	6.44	1.60	1.52
1	dZ	18	ARG	C-N	6.44	1.42	1.33
1	ef	146	SER	N-CA	-6.44	1.40	1.46
1	eJ	55	MET	CA-CB	6.44	1.63	1.53
1	fK	182	LYS	CA-CB	-6.44	1.43	1.53
1	fU	142	VAL	CA-CB	-6.44	1.46	1.54
1	g3	132	ARG	N-CA	-6.44	1.38	1.46
1	3	62	HIS	CB-CG	6.44	1.59	1.50
1	hd	212	GLU	C-N	6.44	1.42	1.33
1	kT	135	ILE	N-CA	6.44	1.54	1.46
1	lh	14	ALA	CA-CB	6.44	1.64	1.53
1	2a	16	SER	CA-C	6.44	1.59	1.52
1	2C	67	GLN	CA-CB	6.44	1.63	1.53
1	35	219	GLN	N-CA	6.44	1.53	1.45
1	3r	124	ILE	CA-CB	-6.44	1.46	1.54
1	3P	179	GLN	CA-C	6.44	1.61	1.52
1	4r	62	HIS	CG-ND1	6.44	1.45	1.38
1	5m	212	GLU	C-N	6.44	1.42	1.33
1	7C	120	HIS	CA-C	6.44	1.61	1.52
1	7D	155	GLN	CA-C	6.44	1.61	1.52
1	8N	45	GLU	C-O	6.44	1.31	1.23
1	a7	183	ASN	CA-CB	6.44	1.63	1.53
1	an	206	GLY	C-N	-6.44	1.28	1.33
1	bs	13	GLN	CA-CB	6.44	1.65	1.53
1	bP	52	LEU	CA-CB	6.44	1.63	1.53
1	c7	13	GLN	CA-CB	6.44	1.66	1.53
1	dD	60	GLY	CA-C	-6.44	1.42	1.51
1	eU	45	GLU	C-N	6.44	1.42	1.33
1	f	121	ASN	CA-C	-6.44	1.47	1.52
1	V	227	LYS	CA-CB	6.44	1.64	1.53
1	h3	4	GLN	CA-C	6.43	1.61	1.52
1	1J	214	MET	CA-C	6.43	1.61	1.52
1	hx	176	GLN	CA-CB	6.43	1.63	1.53
1	hA	53	ASN	N-CA	6.43	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iw	6	LEU	CA-CB	6.43	1.64	1.53
1	iR	158	LYS	CA-C	-6.43	1.44	1.52
1	ji	143	ARG	CD-NE	6.43	1.55	1.46
1	js	144	MET	N-CA	6.43	1.54	1.46
1	jt	112	GLN	CA-C	-6.43	1.44	1.52
1	1W	103	ASP	N-CA	-6.43	1.38	1.46
1	jw	229	ARG	CD-NE	6.43	1.55	1.46
1	kh	68	MET	N-CA	-6.43	1.38	1.46
1	25	144	MET	C-N	6.43	1.42	1.33
1	l9	123	PRO	CA-CB	-6.43	1.44	1.53
1	ll	84	HIS	ND1-CE1	6.43	1.39	1.32
1	lP	124	ILE	CA-CB	6.43	1.62	1.54
1	2f	12	HIS	CG-CD2	6.43	1.43	1.35
1	2s	226	HIS	ND1-CE1	6.43	1.39	1.32
1	2N	21	ASN	C-N	6.43	1.42	1.33
1	36	123	PRO	CA-C	-6.43	1.45	1.52
1	36	177	ALA	CA-CB	6.43	1.62	1.53
1	3v	43	LEU	CA-CB	6.43	1.63	1.53
1	4f	142	VAL	C-N	6.43	1.42	1.33
1	4h	123	PRO	C-O	-6.43	1.16	1.23
1	5r	147	PRO	CA-CB	6.43	1.62	1.53
1	5u	117	TRP	NE1-CE2	6.43	1.44	1.37
1	6h	182	LYS	N-CA	6.43	1.54	1.46
1	6u	172	LEU	CA-CB	6.43	1.63	1.53
1	6C	24	VAL	C-N	6.43	1.42	1.33
1	6V	111	LEU	CB-CG	6.43	1.66	1.53
1	71	174	ALA	C-N	6.43	1.42	1.33
1	8p	225	GLY	C-N	6.43	1.42	1.33
1	8u	179	GLN	CA-C	-6.43	1.44	1.52
1	9D	35	GLU	N-CA	-6.43	1.37	1.46
1	ad	173	ARG	CA-C	-6.43	1.44	1.52
1	aB	76	GLU	CA-C	-6.43	1.44	1.52
1	aL	149	SER	CA-C	-6.43	1.45	1.52
1	c8	103	ASP	CA-C	6.43	1.61	1.52
1	du	43	LEU	N-CA	-6.43	1.38	1.46
1	ea	197	ASP	N-CA	6.43	1.54	1.46
1	1q	42	ALA	CA-C	-6.43	1.44	1.52
1	eA	84	HIS	ND1-CE1	6.43	1.39	1.32
1	eG	7	GLN	CA-C	-6.43	1.44	1.52
1	1w	11	VAL	CA-C	6.43	1.60	1.52
1	g2	168	PHE	C-N	6.43	1.42	1.34
1	a	1	PRO	C-N	6.43	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6	124	ILE	N-CA	-6.43	1.41	1.46
1	9	181	VAL	CA-C	-6.43	1.44	1.52
1	gf	17	PRO	C-N	6.43	1.42	1.33
1	gj	98	GLU	CA-C	-6.43	1.46	1.53
1	gq	166	ASP	C-O	6.43	1.31	1.24
1	gE	113	GLU	CA-CB	6.43	1.63	1.53
1	h8	84	HIS	CA-CB	6.43	1.61	1.53
1	hs	127	GLY	N-CA	6.43	1.53	1.45
1	i5	226	HIS	ND1-CE1	6.43	1.39	1.32
1	ie	168	PHE	CA-CB	6.43	1.63	1.53
1	1U	195	ASN	CA-CB	6.43	1.65	1.53
1	jH	223	GLY	CA-C	6.43	1.61	1.51
1	jO	176	GLN	CA-CB	6.43	1.63	1.53
1	jS	63	GLN	C-O	6.43	1.31	1.24
1	1Z	21	ASN	CA-C	6.43	1.61	1.52
1	k7	44	SER	CA-CB	6.43	1.63	1.53
1	21	209	ALA	CA-C	6.43	1.61	1.52
1	23	79	GLU	N-CA	6.43	1.54	1.46
1	2a	51	ASP	N-CA	6.43	1.54	1.46
1	3W	203	LYS	N-CA	-6.43	1.38	1.46
1	51	134	ILE	CA-CB	-6.43	1.46	1.54
1	5e	221	VAL	CA-CB	-6.43	1.47	1.54
1	5p	206	GLY	CA-C	6.43	1.61	1.51
1	5s	155	GLN	CA-C	6.43	1.61	1.52
1	67	62	HIS	CG-ND1	6.43	1.45	1.38
1	6P	225	GLY	CA-C	6.43	1.60	1.52
1	72	133	TRP	CA-CB	6.43	1.63	1.53
1	7c	62	HIS	CD2-NE2	-6.43	1.30	1.37
1	7k	100	ARG	CZ-NH2	-6.43	1.25	1.33
1	7A	53	ASN	CA-C	6.43	1.61	1.52
1	7D	154	ARG	N-CA	6.43	1.53	1.45
1	7J	175	GLU	CA-C	6.43	1.60	1.52
1	7M	154	ARG	CA-C	-6.43	1.44	1.52
1	9k	168	PHE	CA-C	6.43	1.61	1.52
1	9Y	139	ASN	C-N	6.43	1.42	1.33
1	az	162	ARG	N-CA	-6.43	1.37	1.46
1	b1	160	PRO	CA-CB	6.43	1.58	1.53
1	c6	164	TYR	CA-CB	6.43	1.63	1.53
1	cp	64	ALA	CA-CB	6.43	1.63	1.53
1	cB	36	VAL	CA-CB	6.43	1.62	1.54
1	cP	131	LYS	N-CA	-6.43	1.38	1.46
1	dw	205	LEU	CA-CB	6.43	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dQ	127	GLY	CA-C	-6.43	1.44	1.52
1	ev	179	GLN	CA-C	-6.43	1.44	1.52
1	1y	155	GLN	CA-C	6.43	1.61	1.52
1	fS	2	ILE	N-CA	6.43	1.53	1.46
1	c	71	GLU	C-N	6.43	1.42	1.34
1	p	84	HIS	ND1-CE1	6.43	1.39	1.32
1	s	51	ASP	CA-CB	6.43	1.63	1.53
1	F	141	ILE	CA-C	6.43	1.60	1.52
1	6	170	LYS	CA-C	-6.43	1.44	1.52
1	gu	19	THR	CA-CB	6.43	1.63	1.53
1	h6	42	ALA	CA-C	6.43	1.61	1.52
1	hH	179	GLN	C-N	6.43	1.42	1.33
1	je	51	ASP	CA-C	6.43	1.60	1.52
1	k3	117	TRP	NE1-CE2	-6.43	1.30	1.37
1	kU	18	ARG	CA-C	6.43	1.60	1.52
1	lM	54	THR	C-N	6.43	1.41	1.33
1	2d	62	HIS	ND1-CE1	-6.43	1.26	1.32
1	4S	214	MET	CA-C	-6.43	1.44	1.52
1	5T	123	PRO	N-CA	-6.43	1.39	1.47
1	6f	193	ASN	CA-C	6.43	1.61	1.53
1	6o	221	VAL	CA-CB	-6.43	1.46	1.53
1	8K	9	GLN	CA-C	6.43	1.60	1.52
1	ao	69	LEU	N-CA	-6.43	1.38	1.46
1	aw	196	PRO	CA-CB	-6.43	1.44	1.53
1	aO	55	MET	N-CA	-6.43	1.38	1.46
1	bf	78	ALA	CA-C	6.43	1.60	1.52
1	bg	188	THR	CA-CB	6.43	1.64	1.53
1	bW	105	ALA	CA-C	-6.43	1.43	1.52
1	cN	25	LYS	N-CA	-6.43	1.38	1.46
1	M	64	ALA	CA-C	6.43	1.60	1.52
1	g9	53	ASN	N-CA	6.43	1.54	1.46
1	ga	131	LYS	CA-CB	6.43	1.63	1.53
1	gU	102	SER	CA-C	6.43	1.61	1.52
1	hl	11	VAL	CA-C	6.43	1.60	1.52
1	hy	187	GLU	CA-C	6.43	1.61	1.52
1	hM	110	THR	CA-C	6.43	1.60	1.52
1	i8	166	ASP	C-N	6.43	1.42	1.33
1	ig	211	LEU	C-O	-6.43	1.16	1.24
1	ix	13	GLN	N-CA	-6.43	1.37	1.45
1	iI	40	PHE	CA-CB	6.43	1.63	1.53
1	iN	36	VAL	C-N	-6.43	1.26	1.33
1	ji	21	ASN	N-CA	-6.43	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jU	89	GLY	N-CA	6.43	1.53	1.44
1	k6	131	LYS	N-CA	6.43	1.54	1.46
1	kA	24	VAL	C-N	6.43	1.42	1.33
1	kX	49	PRO	C-N	6.43	1.42	1.33
1	kY	24	VAL	CA-CB	-6.43	1.46	1.54
1	l0	154	ARG	NE-CZ	6.43	1.40	1.33
1	ll	71	GLU	CA-CB	6.43	1.63	1.53
1	2h	150	ILE	CA-C	6.43	1.60	1.52
1	2Z	145	TYR	CA-CB	6.43	1.63	1.53
1	3i	19	THR	N-CA	-6.43	1.38	1.46
1	4G	109	SER	CA-CB	6.43	1.63	1.53
1	4L	99	PRO	N-CD	-6.43	1.38	1.47
1	4R	41	SER	CA-C	6.43	1.61	1.52
1	51	84	HIS	ND1-CE1	6.43	1.39	1.32
1	5c	181	VAL	C-N	6.43	1.42	1.33
1	5s	175	GLU	N-CA	-6.43	1.38	1.46
1	5A	121	ASN	CA-C	6.43	1.61	1.52
1	6o	26	VAL	C-N	6.43	1.42	1.33
1	6B	123	PRO	CA-C	6.43	1.61	1.52
1	72	92	GLU	C-O	-6.43	1.16	1.24
1	7P	92	GLU	CA-C	6.43	1.59	1.53
1	8m	129	ILE	N-CA	6.43	1.54	1.46
1	91	140	LYS	CA-C	-6.43	1.44	1.52
1	9d	72	THR	N-CA	6.43	1.54	1.46
1	b9	49	PRO	CA-CB	6.43	1.63	1.53
1	cC	46	GLY	C-N	6.43	1.42	1.33
1	cL	32	PHE	CA-CB	6.43	1.64	1.53
1	dg	62	HIS	CE1-NE2	6.43	1.39	1.32
1	dV	190	LEU	N-CA	-6.43	1.38	1.46
1	e2	53	ASN	CA-C	6.43	1.61	1.52
1	f4	17	PRO	CA-C	6.43	1.61	1.52
1	fj	34	PRO	CA-CB	-6.43	1.44	1.53
1	fX	8	GLY	N-CA	6.43	1.54	1.44
1	g0	46	GLY	CA-C	6.43	1.60	1.51
1	g	141	ILE	CA-CB	-6.43	1.47	1.54
1	Q	224	PRO	N-CD	-6.43	1.38	1.47
1	gt	150	ILE	C-N	6.43	1.42	1.33
1	hi	171	THR	N-CA	6.43	1.54	1.46
1	i4	198	CYS	CA-C	6.43	1.61	1.52
1	jb	96	MET	CA-CB	6.43	1.64	1.53
1	k9	132	ARG	CZ-NH2	-6.43	1.25	1.33
1	lx	177	ALA	N-CA	-6.43	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4n	53	ASN	CA-C	6.43	1.60	1.52
1	4L	97	ARG	CZ-NH2	-6.43	1.25	1.33
1	68	124	ILE	CA-CB	6.43	1.60	1.54
1	6a	180	GLU	N-CA	-6.43	1.38	1.46
1	6t	173	ARG	CD-NE	6.43	1.55	1.46
1	do	183	ASN	CA-CB	6.43	1.63	1.53
1	ee	177	ALA	CA-C	6.43	1.60	1.52
1	ef	51	ASP	C-N	6.43	1.42	1.33
1	fe	23	TRP	NE1-CE2	-6.43	1.30	1.37
1	fr	164	TYR	C-N	6.43	1.41	1.33
1	1A	139	ASN	CA-C	6.43	1.61	1.52
1	Q	162	ARG	C-O	-6.43	1.16	1.24
1	gl	203	LYS	CA-CB	6.43	1.63	1.53
1	hm	38	PRO	C-O	-6.43	1.16	1.24
1	hs	100	ARG	N-CA	-6.43	1.37	1.45
1	hv	144	MET	CA-CB	6.43	1.63	1.53
1	hw	26	VAL	C-N	6.43	1.41	1.33
1	ja	188	THR	CA-C	-6.43	1.47	1.53
1	jc	23	TRP	NE1-CE2	-6.43	1.30	1.37
1	jJ	167	ARG	C-N	6.43	1.42	1.33
1	k3	177	ALA	CA-C	6.43	1.60	1.52
1	kf	116	GLY	C-N	6.43	1.42	1.33
1	29	84	HIS	ND1-CE1	6.43	1.39	1.32
1	lC	118	MET	CA-C	-6.43	1.44	1.52
1	lP	8	GLY	CA-C	-6.43	1.45	1.52
1	2q	45	GLU	CA-CB	6.43	1.64	1.53
1	3x	168	PHE	CA-C	6.43	1.60	1.52
1	4h	14	ALA	CA-C	-6.43	1.44	1.52
1	4l	59	VAL	CA-CB	-6.43	1.47	1.54
1	4A	134	ILE	CA-CB	6.43	1.62	1.54
1	4V	114	GLN	CA-C	6.43	1.60	1.52
1	5p	64	ALA	C-N	6.43	1.42	1.33
1	5B	14	ALA	C-N	6.43	1.42	1.33
1	5X	45	GLU	CA-CB	6.43	1.61	1.53
1	60	80	TRP	NE1-CE2	6.43	1.44	1.37
1	7k	87	HIS	ND1-CE1	6.43	1.39	1.32
1	7N	7	GLN	CA-C	-6.43	1.45	1.52
1	8s	114	GLN	CA-C	-6.43	1.44	1.52
1	8y	146	SER	CA-C	6.43	1.60	1.52
1	9n	143	ARG	CD-NE	6.43	1.55	1.46
1	ai	94	GLY	C-N	-6.43	1.24	1.33
1	cW	116	GLY	CA-C	-6.43	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eD	47	ALA	C-O	-6.43	1.15	1.23
1	1s	9	GLN	C-N	6.43	1.42	1.33
1	eM	2	ILE	N-CA	-6.43	1.39	1.46
1	eN	62	HIS	CE1-NE2	6.43	1.39	1.32
1	fL	120	HIS	C-N	6.43	1.42	1.33
1	k	6	LEU	N-CA	6.43	1.54	1.46
1	m	138	LEU	CA-C	-6.43	1.44	1.52
1	v	180	GLU	CA-C	6.43	1.61	1.52
1	V	89	GLY	C-N	-6.43	1.25	1.33
1	gc	163	ASP	CA-C	6.42	1.61	1.52
1	gg	142	VAL	N-CA	-6.42	1.39	1.46
1	gq	189	LEU	CA-CB	6.42	1.63	1.53
1	gW	13	GLN	CA-CB	6.42	1.67	1.54
1	hL	69	LEU	N-CA	-6.42	1.38	1.46
1	hP	105	ALA	C-N	6.42	1.42	1.33
1	i9	18	ARG	CA-CB	6.42	1.63	1.53
1	ir	146	SER	CA-CB	6.42	1.63	1.53
1	iS	52	LEU	N-CA	6.42	1.54	1.46
1	j6	83	LEU	CA-C	-6.42	1.43	1.52
1	jB	6	LEU	CA-C	6.42	1.58	1.52
1	jW	119	THR	N-CA	6.42	1.54	1.46
1	21	199	LYS	CA-C	-6.42	1.44	1.52
1	kr	86	VAL	C-N	6.42	1.42	1.33
1	l2	111	LEU	CA-CB	6.42	1.63	1.53
1	lp	117	TRP	CA-C	-6.42	1.44	1.52
1	31	145	TYR	CA-CB	6.42	1.64	1.53
1	44	115	ILE	C-N	6.42	1.42	1.33
1	4v	109	SER	CA-CB	6.42	1.66	1.54
1	5j	64	ALA	N-CA	-6.42	1.38	1.46
1	5o	185	MET	C-N	6.42	1.42	1.33
1	5u	99	PRO	C-N	6.42	1.41	1.33
1	5E	157	PRO	N-CD	-6.42	1.38	1.47
1	5G	84	HIS	ND1-CE1	6.42	1.39	1.32
1	5M	101	GLY	CA-C	6.42	1.59	1.52
1	5V	13	GLN	N-CA	6.42	1.53	1.45
1	68	9	GLN	C-N	6.42	1.42	1.33
1	6H	8	GLY	N-CA	6.42	1.53	1.45
1	bg	203	LYS	CA-CB	6.42	1.63	1.53
1	bC	98	GLU	CA-C	6.42	1.61	1.52
1	bE	154	ARG	CA-C	6.42	1.60	1.52
1	bI	122	PRO	C-N	-6.42	1.25	1.33
1	bK	69	LEU	CA-C	6.42	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cj	87	HIS	C-N	6.42	1.42	1.33
1	ck	211	LEU	C-N	6.42	1.42	1.33
1	cx	182	LYS	N-CA	6.42	1.54	1.46
1	cC	87	HIS	CA-C	-6.42	1.45	1.53
1	cZ	137	GLY	CA-C	-6.42	1.43	1.51
1	dI	12	HIS	CA-C	-6.42	1.45	1.52
1	dJ	143	ARG	CA-C	-6.42	1.44	1.52
1	e7	74	ASN	C-N	6.42	1.42	1.33
1	1r	173	ARG	CD-NE	6.42	1.55	1.46
1	fa	218	CYS	CA-CB	6.42	1.64	1.53
1	ft	39	MET	C-N	6.42	1.42	1.33
1	fK	91	ILE	CA-CB	6.42	1.61	1.54
1	g5	100	ARG	NE-CZ	-6.42	1.25	1.33
1	O	48	THR	CA-C	-6.42	1.45	1.53
1	jQ	201	ILE	CA-C	-6.42	1.45	1.52
1	l0	165	VAL	CA-CB	6.42	1.62	1.54
1	2d	6	LEU	CA-C	6.42	1.61	1.52
1	4J	133	TRP	CA-C	6.42	1.60	1.52
1	6t	222	GLY	C-N	6.42	1.43	1.33
1	7O	84	HIS	CA-CB	6.42	1.62	1.53
1	11	50	GLN	N-CA	6.42	1.54	1.46
1	bW	16	SER	C-N	6.42	1.42	1.34
1	c4	102	SER	CA-CB	6.42	1.63	1.53
1	1d	127	GLY	CA-C	-6.42	1.44	1.51
1	cY	76	GLU	C-O	-6.42	1.16	1.24
1	eL	178	SER	C-N	6.42	1.42	1.33
1	1F	130	TYR	CZ-OH	6.42	1.51	1.38
1	gR	12	HIS	CD2-NE2	6.42	1.45	1.37
1	hq	143	ARG	CZ-NH2	-6.42	1.25	1.33
1	hV	18	ARG	CD-NE	6.42	1.55	1.46
1	iw	26	VAL	CA-C	6.42	1.60	1.52
1	k1	189	LEU	CA-CB	6.42	1.64	1.53
1	2A	38	PRO	CA-CB	6.42	1.62	1.53
1	2G	19	THR	CA-C	6.42	1.60	1.52
1	3d	75	GLU	CA-CB	6.42	1.63	1.53
1	3h	90	PRO	C-N	6.42	1.42	1.33
1	3h	162	ARG	N-CA	6.42	1.54	1.46
1	3O	81	ASP	CA-CB	6.42	1.63	1.53
1	4o	153	ILE	CB-CG1	6.42	1.66	1.53
1	4p	122	PRO	N-CD	-6.42	1.38	1.47
1	52	12	HIS	CA-C	-6.42	1.44	1.52
1	6I	100	ARG	CA-C	-6.42	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	85	54	THR	N-CA	6.42	1.54	1.46
1	8t	126	VAL	C-N	6.42	1.42	1.33
1	8K	18	ARG	C-N	6.42	1.42	1.33
1	95	74	ASN	CA-C	6.42	1.61	1.52
1	an	92	GLU	CA-C	6.42	1.60	1.52
1	aU	11	VAL	CA-CB	-6.42	1.46	1.54
1	16	229	ARG	CD-NE	6.42	1.55	1.46
1	bm	182	LYS	C-N	6.42	1.42	1.33
1	1a	23	TRP	N-CA	-6.42	1.38	1.46
1	d0	51	ASP	C-N	6.42	1.42	1.33
1	d3	159	GLU	CA-CB	6.42	1.64	1.53
1	dy	166	ASP	CA-CB	6.42	1.63	1.53
1	e5	124	ILE	CA-C	-6.42	1.48	1.53
1	1t	183	ASN	N-CA	-6.42	1.38	1.46
1	fN	145	TYR	CA-CB	6.42	1.61	1.53
1	fT	175	GLU	CA-C	6.42	1.60	1.52
1	fV	30	LYS	CA-C	-6.42	1.44	1.52
1	fY	74	ASN	N-CA	-6.42	1.38	1.46
1	g	90	PRO	CA-CB	6.42	1.60	1.53
1	G	96	MET	C-N	6.42	1.41	1.33
1	hF	201	ILE	C-N	6.42	1.42	1.33
1	1O	198	CYS	CA-C	6.42	1.61	1.52
1	jx	19	THR	C-N	6.42	1.42	1.33
1	3d	59	VAL	C-N	6.42	1.42	1.33
1	3V	137	GLY	CA-C	6.42	1.59	1.52
1	80	89	GLY	C-N	-6.42	1.25	1.33
1	8d	75	GLU	CA-CB	-6.42	1.43	1.53
1	aL	163	ASP	CA-C	-6.42	1.44	1.52
1	1h	41	SER	C-N	6.42	1.43	1.33
1	dT	125	PRO	N-CD	6.42	1.56	1.47
1	F	84	HIS	CD2-NE2	6.42	1.45	1.37
1	F	107	THR	C-N	6.42	1.42	1.33
1	O	84	HIS	CD2-NE2	6.42	1.45	1.37
1	gq	166	ASP	CA-CB	6.42	1.63	1.53
1	gM	132	ARG	C-O	-6.42	1.16	1.24
1	ha	181	VAL	CA-CB	-6.42	1.46	1.54
1	1I	62	HIS	CG-ND1	6.42	1.45	1.38
1	hz	69	LEU	CA-CB	6.42	1.63	1.53
1	hT	75	GLU	CA-CB	6.42	1.63	1.53
1	1R	26	VAL	CA-C	6.42	1.60	1.52
1	j1	112	GLN	C-O	-6.42	1.16	1.24
1	ji	189	LEU	CA-C	6.42	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jt	187	GLU	CA-CB	6.42	1.63	1.53
1	jB	37	ILE	N-CA	6.42	1.54	1.46
1	1Z	34	PRO	CA-C	-6.42	1.46	1.52
1	ko	59	VAL	N-CA	-6.42	1.38	1.46
1	l6	103	ASP	N-CA	6.42	1.54	1.46
1	2d	146	SER	C-N	6.42	1.40	1.34
1	2i	123	PRO	N-CD	-6.42	1.38	1.47
1	2m	3	VAL	C-O	-6.42	1.17	1.24
1	2O	35	GLU	CA-C	-6.42	1.44	1.52
1	38	87	HIS	CB-CG	6.42	1.59	1.50
1	3P	104	ILE	C-O	-6.42	1.16	1.24
1	3P	153	ILE	CA-C	-6.42	1.45	1.52
1	43	176	GLN	CA-C	-6.42	1.45	1.53
1	4Y	173	ARG	C-N	6.42	1.43	1.33
1	5i	33	SER	N-CA	-6.42	1.39	1.45
1	5S	70	LYS	C-N	-6.42	1.25	1.33
1	6E	140	LYS	CA-C	6.42	1.61	1.52
1	6R	208	ALA	N-CA	6.42	1.53	1.46
1	7A	143	ARG	CD-NE	6.42	1.55	1.46
1	7G	121	ASN	CA-C	6.42	1.60	1.52
1	7Z	212	GLU	C-N	6.42	1.42	1.33
1	8d	22	ALA	CA-C	6.42	1.61	1.52
1	8K	67	GLN	CA-C	6.42	1.60	1.52
1	9q	163	ASP	CA-CB	6.42	1.63	1.53
1	ad	84	HIS	CE1-NE2	-6.42	1.26	1.32
1	ak	157	PRO	N-CA	6.42	1.55	1.47
1	aV	147	PRO	C-N	6.42	1.41	1.33
1	aZ	177	ALA	CA-C	6.42	1.61	1.52
1	c3	91	ILE	CA-C	-6.42	1.45	1.52
1	cq	73	ILE	N-CA	6.42	1.54	1.46
1	cy	153	ILE	C-N	6.42	1.42	1.33
1	1f	215	MET	CA-CB	6.42	1.64	1.53
1	cB	5	ASN	CA-C	6.42	1.61	1.52
1	de	85	PRO	CA-C	6.42	1.59	1.52
1	dL	64	ALA	N-CA	-6.42	1.38	1.46
1	dR	86	VAL	N-CA	6.42	1.54	1.46
1	e8	169	TYR	CA-CB	6.42	1.63	1.53
1	ec	97	ARG	CA-CB	6.42	1.63	1.53
1	eL	226	HIS	ND1-CE1	6.42	1.39	1.32
1	eM	129	ILE	CA-C	6.42	1.60	1.52
1	eU	184	TRP	NE1-CE2	-6.42	1.30	1.37
1	fp	54	THR	CA-C	-6.42	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fq	214	MET	CA-C	6.42	1.61	1.52
1	fG	83	LEU	N-CA	-6.42	1.38	1.46
1	G	121	ASN	CA-CB	6.42	1.63	1.53
1	R	92	GLU	CA-C	6.42	1.58	1.52
1	gi	190	LEU	C-N	-6.42	1.26	1.33
1	ig	155	GLN	CA-C	-6.42	1.44	1.52
1	1R	50	GLN	CA-C	6.42	1.60	1.52
1	j8	124	ILE	CA-C	6.42	1.58	1.53
1	jc	176	GLN	CA-C	6.42	1.61	1.52
1	jj	165	VAL	CA-CB	6.42	1.62	1.54
1	jH	5	ASN	C-N	6.42	1.42	1.33
1	k9	42	ALA	CA-C	6.42	1.61	1.52
1	21	117	TRP	NE1-CE2	-6.42	1.30	1.37
1	kk	113	GLU	C-N	6.42	1.42	1.33
1	kl	193	ASN	N-CA	-6.42	1.38	1.46
1	kt	41	SER	N-CA	-6.42	1.38	1.46
1	kR	121	ASN	CA-C	6.42	1.61	1.52
1	kZ	61	GLY	C-N	6.42	1.43	1.33
1	lg	72	THR	N-CA	-6.42	1.38	1.46
1	ll	83	LEU	C-N	6.42	1.41	1.33
1	3k	68	MET	CA-C	6.42	1.61	1.52
1	4s	19	THR	CA-C	6.42	1.61	1.52
1	5s	68	MET	CA-CB	6.42	1.63	1.53
1	64	37	ILE	CA-CB	-6.42	1.49	1.53
1	6a	168	PHE	CA-C	6.42	1.61	1.52
1	6a	189	LEU	C-N	6.42	1.42	1.33
1	6A	35	GLU	CA-C	6.42	1.61	1.52
1	6T	94	GLY	C-N	6.42	1.42	1.33
1	80	177	ALA	CA-C	6.42	1.61	1.52
1	86	42	ALA	CA-C	-6.42	1.44	1.52
1	ad	188	THR	CA-C	-6.42	1.44	1.52
1	aq	42	ALA	CA-C	-6.42	1.44	1.52
1	ax	15	ILE	CA-C	6.42	1.60	1.52
1	aG	80	TRP	N-CA	-6.42	1.38	1.46
1	bY	81	ASP	CA-C	6.42	1.61	1.52
1	cy	207	PRO	N-CA	-6.42	1.39	1.47
1	cZ	196	PRO	CA-C	6.42	1.61	1.52
1	1i	164	TYR	CA-C	-6.42	1.44	1.52
1	de	139	ASN	CA-CB	6.42	1.63	1.53
1	dl	84	HIS	ND1-CE1	6.42	1.39	1.32
1	dn	84	HIS	CE1-NE2	-6.42	1.26	1.32
1	fr	213	GLU	CA-C	6.42	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fL	226	HIS	CB-CG	-6.42	1.41	1.50
1	g0	210	THR	N-CA	6.42	1.53	1.45
1	gt	62	HIS	CA-CB	6.42	1.63	1.53
1	gE	167	ARG	CD-NE	6.42	1.55	1.46
1	h2	59	VAL	CA-C	-6.42	1.45	1.52
1	1P	117	TRP	NE1-CE2	6.42	1.44	1.37
1	iB	69	LEU	CA-C	-6.42	1.44	1.52
1	1R	157	PRO	CA-C	6.42	1.59	1.52
1	j1	14	ALA	C-N	6.42	1.41	1.33
1	l0	184	TRP	N-CA	6.42	1.54	1.46
1	2A	145	TYR	CA-C	-6.42	1.46	1.52
1	3J	206	GLY	C-N	-6.42	1.27	1.33
1	4J	6	LEU	C-N	6.42	1.42	1.33
1	7C	33	SER	N-CA	6.42	1.52	1.46
1	7M	16	SER	CA-C	6.42	1.59	1.53
1	89	29	GLU	C-N	6.42	1.42	1.33
1	8K	1	PRO	N-CD	6.42	1.56	1.47
1	ad	206	GLY	N-CA	6.42	1.53	1.44
1	bR	88	ALA	CA-C	6.42	1.61	1.53
1	cb	135	ILE	CA-C	6.42	1.60	1.52
1	cg	180	GLU	C-O	-6.42	1.16	1.24
1	1f	127	GLY	N-CA	-6.42	1.37	1.45
1	cS	56	LEU	CA-CB	6.42	1.63	1.53
1	g3	80	TRP	NE1-CE2	-6.42	1.30	1.37
1	l	62	HIS	ND1-CE1	6.42	1.39	1.32
1	L	62	HIS	ND1-CE1	6.42	1.39	1.32
1	8	188	THR	C-N	6.42	1.41	1.33
1	gb	181	VAL	CA-CB	-6.41	1.46	1.54
1	gg	201	ILE	CA-CB	-6.41	1.46	1.54
1	1D	58	THR	C-N	6.41	1.41	1.33
1	gx	81	ASP	CA-CB	6.41	1.63	1.53
1	hh	5	ASN	N-CA	-6.41	1.38	1.46
1	hW	62	HIS	CE1-NE2	6.41	1.39	1.32
1	i3	166	ASP	N-CA	-6.41	1.38	1.46
1	io	26	VAL	C-O	-6.41	1.16	1.24
1	iz	120	HIS	ND1-CE1	6.41	1.39	1.32
1	iG	164	TYR	C-N	6.41	1.41	1.34
1	iS	73	ILE	CA-C	-6.41	1.42	1.52
1	jp	92	GLU	CA-C	6.41	1.58	1.52
1	jq	10	MET	CA-C	-6.41	1.44	1.52
1	jC	186	THR	CB-OG1	-6.41	1.33	1.43
1	k0	125	PRO	C-N	6.41	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	21	176	GLN	N-CA	6.41	1.53	1.46
1	23	228	ALA	CA-C	6.41	1.60	1.53
1	kS	3	VAL	N-CA	-6.41	1.38	1.46
1	2c	193	ASN	CA-CB	6.41	1.65	1.53
1	2I	161	PHE	C-N	6.41	1.42	1.33
1	2L	121	ASN	N-CA	-6.41	1.38	1.46
1	3m	87	HIS	ND1-CE1	6.41	1.39	1.32
1	3r	84	HIS	ND1-CE1	6.41	1.39	1.32
1	3B	34	PRO	N-CA	-6.41	1.39	1.47
1	5b	155	GLN	CA-CB	6.41	1.62	1.53
1	5j	159	GLU	CA-C	6.41	1.60	1.52
1	5x	135	ILE	CA-CB	6.41	1.62	1.54
1	6h	164	TYR	C-N	6.41	1.41	1.34
1	6R	188	THR	N-CA	6.41	1.53	1.46
1	75	199	LYS	N-CA	-6.41	1.38	1.46
1	7h	33	SER	CA-C	6.41	1.59	1.53
1	8m	39	MET	CA-CB	6.41	1.63	1.53
1	8M	63	GLN	CA-CB	6.41	1.63	1.53
1	93	1	PRO	N-CA	6.41	1.56	1.47
1	9k	156	GLY	N-CA	6.41	1.53	1.44
1	9V	130	TYR	C-O	-6.41	1.16	1.24
1	ac	19	THR	CA-C	6.41	1.61	1.52
1	ar	66	MET	CA-CB	6.41	1.63	1.53
1	18	91	ILE	CA-C	-6.41	1.45	1.52
1	bT	104	ILE	N-CA	-6.41	1.39	1.46
1	c6	179	GLN	C-N	6.41	1.42	1.33
1	ce	18	ARG	CD-NE	6.41	1.55	1.46
1	cu	229	ARG	CA-C	6.41	1.61	1.52
1	cU	147	PRO	C-N	6.41	1.42	1.33
1	fy	218	CYS	C-N	6.41	1.42	1.33
1	p	100	ARG	CD-NE	6.41	1.55	1.46
1	2	80	TRP	CA-CB	6.41	1.63	1.53
1	S	182	LYS	C-N	6.41	1.42	1.34
1	gj	164	TYR	N-CA	6.41	1.54	1.46
1	iE	211	LEU	C-N	6.41	1.42	1.33
1	iQ	4	GLN	N-CA	-6.41	1.38	1.46
1	1S	14	ALA	C-N	6.41	1.42	1.33
1	iW	10	MET	C-N	6.41	1.40	1.33
1	1T	173	ARG	CD-NE	6.41	1.55	1.46
1	kU	35	GLU	C-N	6.41	1.42	1.34
1	lp	155	GLN	N-CA	-6.41	1.38	1.45
1	lM	28	GLU	CA-CB	6.41	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2m	123	PRO	C-N	6.41	1.40	1.33
1	2X	87	HIS	ND1-CE1	6.41	1.39	1.32
1	3l	36	VAL	CA-C	6.41	1.60	1.52
1	3J	73	ILE	N-CA	-6.41	1.38	1.46
1	4s	204	ALA	C-N	6.41	1.42	1.33
1	73	36	VAL	CA-CB	-6.41	1.45	1.54
1	8s	113	GLU	N-CA	6.41	1.54	1.46
1	8t	62	HIS	CE1-NE2	6.41	1.39	1.32
1	8J	124	ILE	N-CA	6.41	1.51	1.46
1	8K	133	TRP	N-CA	-6.41	1.38	1.46
1	an	50	GLN	CA-CB	6.41	1.63	1.53
1	bt	195	ASN	C-O	-6.41	1.15	1.24
1	ce	198	CYS	N-CA	6.41	1.54	1.46
1	d4	88	ALA	CA-CB	6.41	1.63	1.53
1	eD	226	HIS	CG-ND1	-6.41	1.31	1.38
1	eJ	206	GLY	N-CA	6.41	1.53	1.44
1	f6	143	ARG	CA-C	6.41	1.61	1.52
1	fc	64	ALA	C-N	6.41	1.42	1.33
1	fj	214	MET	N-CA	6.41	1.54	1.46
1	g1	153	ILE	CA-CB	6.41	1.61	1.54
1	h	155	GLN	CA-CB	6.41	1.62	1.53
1	s	37	ILE	CA-CB	6.41	1.57	1.54
1	u	112	GLN	N-CA	-6.41	1.38	1.46
1	gc	190	LEU	N-CA	-6.41	1.38	1.46
1	ge	24	VAL	N-CA	-6.41	1.39	1.46
1	gJ	53	ASN	C-N	6.41	1.42	1.33
1	hC	197	ASP	N-CA	-6.41	1.38	1.46
1	iu	208	ALA	CA-CB	6.41	1.61	1.53
1	iN	12	HIS	C-N	6.41	1.41	1.33
1	j0	114	GLN	N-CA	-6.41	1.38	1.46
1	j2	166	ASP	N-CA	-6.41	1.38	1.46
1	jd	171	THR	C-O	6.41	1.31	1.24
1	l8	202	LEU	CA-CB	6.41	1.63	1.53
1	lN	32	PHE	N-CA	6.41	1.53	1.46
1	2p	161	PHE	CG-CD1	6.41	1.52	1.38
1	4B	123	PRO	C-N	6.41	1.40	1.33
1	4X	217	ALA	N-CA	-6.41	1.37	1.45
1	4Z	120	HIS	ND1-CE1	6.41	1.39	1.32
1	5b	154	ARG	CA-CB	6.41	1.64	1.53
1	5o	198	CYS	CA-C	6.41	1.61	1.52
1	5r	98	GLU	CA-C	6.41	1.59	1.52
1	66	209	ALA	CA-C	-6.41	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6s	8	GLY	C-N	6.41	1.41	1.33
1	6U	62	HIS	CE1-NE2	6.41	1.39	1.32
1	71	164	TYR	N-CA	-6.41	1.38	1.46
1	7c	47	ALA	CA-C	6.41	1.61	1.52
1	7q	31	ALA	CA-CB	6.41	1.64	1.53
1	7O	152	ASP	C-N	6.41	1.41	1.33
1	83	7	GLN	N-CA	-6.41	1.36	1.46
1	89	84	HIS	N-CA	-6.41	1.40	1.46
1	8b	225	GLY	CA-C	-6.41	1.44	1.52
1	8e	24	VAL	N-CA	6.41	1.54	1.46
1	9b	2	ILE	CA-C	6.41	1.60	1.52
1	9D	12	HIS	CB-CG	6.41	1.59	1.50
1	bl	166	ASP	CA-C	-6.41	1.44	1.52
1	bL	142	VAL	C-N	-6.41	1.25	1.33
1	c5	51	ASP	C-N	6.41	1.42	1.33
1	ch	47	ALA	CA-C	6.41	1.60	1.52
1	db	27	VAL	CA-CB	-6.41	1.46	1.54
1	dS	84	HIS	CA-C	6.41	1.60	1.52
1	e5	121	ASN	N-CA	-6.41	1.38	1.46
1	ef	193	ASN	C-N	6.41	1.41	1.33
1	1u	190	LEU	CA-C	6.41	1.61	1.52
1	f7	28	GLU	CA-C	-6.41	1.44	1.52
1	fQ	12	HIS	C-N	6.41	1.42	1.33
1	S	86	VAL	CA-CB	6.41	1.63	1.54
1	gS	22	ALA	C-N	6.41	1.42	1.33
1	hd	59	VAL	CA-C	6.41	1.59	1.52
1	hT	159	GLU	CA-C	6.41	1.60	1.52
1	ia	109	SER	CA-C	6.41	1.61	1.52
1	iQ	13	GLN	N-CA	-6.41	1.37	1.45
1	jv	100	ARG	CD-NE	6.41	1.55	1.46
1	jL	134	ILE	C-N	6.41	1.41	1.34
1	jV	198	CYS	CA-CB	6.41	1.63	1.53
1	kY	218	CYS	CA-CB	6.41	1.62	1.53
1	l4	226	HIS	ND1-CE1	6.41	1.39	1.32
1	la	190	LEU	CB-CG	6.41	1.66	1.53
1	lc	15	ILE	N-CA	6.41	1.53	1.46
1	lB	184	TRP	N-CA	-6.41	1.38	1.46
1	lO	121	ASN	CA-CB	6.41	1.62	1.53
1	2z	108	THR	CA-C	-6.41	1.44	1.52
1	2N	70	LYS	CA-C	-6.41	1.44	1.52
1	3e	138	LEU	CA-CB	6.41	1.63	1.53
1	3H	102	SER	N-CA	-6.41	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	48	108	THR	C-N	6.41	1.42	1.33
1	4N	24	VAL	C-O	-6.41	1.17	1.24
1	54	129	ILE	CA-CB	6.41	1.61	1.54
1	5r	192	GLN	N-CA	-6.41	1.38	1.46
1	6b	204	ALA	CA-C	-6.41	1.44	1.52
1	6f	84	HIS	C-N	6.41	1.41	1.33
1	6g	24	VAL	CA-CB	6.41	1.62	1.54
1	6Q	124	ILE	N-CA	-6.41	1.40	1.46
1	7t	166	ASP	C-N	6.41	1.42	1.33
1	7L	141	ILE	CB-CG1	6.41	1.66	1.53
1	7P	186	THR	CA-C	6.41	1.60	1.52
1	7T	165	VAL	N-CA	-6.41	1.38	1.46
1	8P	32	PHE	CA-CB	6.41	1.62	1.53
1	9I	148	THR	N-CA	6.41	1.53	1.46
1	aK	82	ARG	C-N	6.41	1.42	1.33
1	aN	134	ILE	CA-CB	-6.41	1.47	1.54
1	aP	37	ILE	C-N	6.41	1.41	1.34
1	bg	33	SER	CA-C	6.41	1.59	1.52
1	bH	165	VAL	CA-CB	-6.41	1.46	1.54
1	bX	14	ALA	C-N	-6.41	1.26	1.33
1	ci	30	LYS	C-N	6.41	1.40	1.32
1	1e	145	TYR	CA-C	6.41	1.60	1.52
1	cA	18	ARG	CD-NE	6.41	1.55	1.46
1	d1	153	ILE	C-O	-6.41	1.17	1.24
1	dN	212	GLU	C-N	6.41	1.42	1.33
1	dT	120	HIS	ND1-CE1	6.41	1.39	1.32
1	f6	117	TRP	NE1-CE2	-6.41	1.30	1.37
1	fA	194	ALA	N-CA	-6.41	1.36	1.45
1	i	63	GLN	CA-CB	6.41	1.63	1.53
1	q	38	PRO	N-CA	-6.41	1.39	1.47
1	gt	41	SER	N-CA	-6.41	1.38	1.46
1	gF	221	VAL	C-N	6.41	1.42	1.33
1	iO	177	ALA	N-CA	6.41	1.54	1.46
1	iU	7	GLN	CA-CB	6.41	1.61	1.54
1	ko	15	ILE	CA-C	6.41	1.60	1.52
1	2g	46	GLY	C-N	6.41	1.42	1.33
1	2B	73	ILE	CA-CB	6.41	1.61	1.54
1	2R	193	ASN	CA-C	6.41	1.61	1.52
1	30	62	HIS	CG-CD2	-6.41	1.28	1.35
1	3q	198	CYS	CA-CB	6.41	1.63	1.53
1	3N	110	THR	N-CA	6.41	1.53	1.45
1	3Q	154	ARG	CD-NE	6.41	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4D	2	ILE	N-CA	-6.41	1.38	1.46
1	4H	24	VAL	CA-CB	-6.41	1.47	1.54
1	68	82	ARG	CA-C	6.41	1.61	1.52
1	7l	4	GLN	CA-C	-6.41	1.44	1.52
1	aD	61	GLY	N-CA	6.41	1.50	1.44
1	14	178	SER	CA-CB	6.41	1.63	1.53
1	bk	77	ALA	CA-CB	6.41	1.63	1.53
1	bA	195	ASN	CA-CB	6.41	1.61	1.53
1	1a	188	THR	N-CA	-6.41	1.40	1.46
1	c8	160	PRO	CA-CB	6.41	1.62	1.53
1	cZ	35	GLU	CA-CB	6.41	1.64	1.53
1	d7	68	MET	C-N	6.41	1.42	1.33
1	dk	226	HIS	CE1-NE2	-6.41	1.26	1.32
1	eJ	120	HIS	CB-CG	6.41	1.59	1.50
1	ga	65	ALA	C-N	6.41	1.42	1.33
1	gh	181	VAL	CA-C	6.41	1.60	1.52
1	hS	21	ASN	CA-C	6.41	1.61	1.52
1	hT	82	ARG	CZ-NH1	-6.41	1.23	1.32
1	iA	224	PRO	CA-C	-6.41	1.45	1.52
1	j6	165	VAL	CA-CB	6.41	1.61	1.54
1	jx	40	PHE	CA-C	6.41	1.61	1.52
1	k1	79	GLU	N-CA	-6.41	1.38	1.46
1	kf	191	VAL	CA-C	6.41	1.60	1.52
1	kl	27	VAL	CA-CB	6.41	1.62	1.54
1	kq	169	TYR	CA-C	6.41	1.61	1.52
1	lf	221	VAL	CA-C	-6.41	1.44	1.52
1	lk	66	MET	CA-C	-6.41	1.44	1.52
1	lo	216	THR	N-CA	6.41	1.53	1.46
1	28	44	SER	C-N	6.41	1.42	1.33
1	lE	73	ILE	N-CA	6.41	1.54	1.46
1	2g	49	PRO	N-CD	6.41	1.56	1.47
1	2v	189	LEU	CA-CB	6.41	1.63	1.53
1	3g	23	TRP	C-O	-6.41	1.16	1.24
1	3k	168	PHE	CA-C	6.41	1.61	1.52
1	3E	120	HIS	ND1-CE1	6.41	1.39	1.32
1	3F	104	ILE	CA-CB	-6.41	1.46	1.54
1	4o	179	GLN	C-N	6.41	1.42	1.33
1	4v	8	GLY	CA-C	-6.41	1.44	1.51
1	4H	15	ILE	CA-CB	-6.41	1.48	1.54
1	62	21	ASN	CA-C	6.41	1.61	1.52
1	64	87	HIS	CG-ND1	6.41	1.45	1.38
1	6j	185	MET	CA-C	-6.41	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7l	80	TRP	CA-C	-6.41	1.44	1.52
1	7y	9	GLN	C-N	6.41	1.42	1.33
1	82	24	VAL	C-N	6.41	1.42	1.33
1	aQ	153	ILE	CA-CB	-6.41	1.46	1.54
1	b6	153	ILE	CA-CB	6.41	1.61	1.54
1	bc	41	SER	C-O	-6.41	1.16	1.24
1	bE	60	GLY	N-CA	-6.41	1.38	1.45
1	ch	145	TYR	C-N	6.41	1.43	1.33
1	dm	2	ILE	N-CA	-6.41	1.38	1.46
1	ds	150	ILE	CA-C	6.41	1.60	1.52
1	dD	165	VAL	C-N	6.41	1.42	1.33
1	dM	199	LYS	CA-C	-6.41	1.44	1.52
1	eb	30	LYS	N-CA	6.41	1.53	1.46
1	1s	120	HIS	CA-C	6.41	1.61	1.53
1	f6	84	HIS	N-CA	-6.41	1.39	1.46
1	fk	58	THR	C-N	6.41	1.40	1.33
1	fS	29	GLU	CA-CB	6.41	1.63	1.53
1	V	216	THR	N-CA	-6.41	1.38	1.46
1	gv	12	HIS	ND1-CE1	6.40	1.39	1.32
1	gF	180	GLU	C-N	6.40	1.42	1.33
1	gS	212	GLU	N-CA	-6.40	1.38	1.46
1	hm	149	SER	CA-C	6.40	1.61	1.52
1	hr	29	GLU	CA-CB	6.40	1.63	1.53
1	iL	226	HIS	ND1-CE1	6.40	1.39	1.32
1	1T	140	LYS	C-N	6.40	1.41	1.33
1	kl	69	LEU	N-CA	6.40	1.54	1.46
1	lt	29	GLU	CA-C	-6.40	1.43	1.52
1	lO	130	TYR	CA-C	6.40	1.60	1.52
1	2d	90	PRO	CA-C	6.40	1.58	1.52
1	2l	22	ALA	CA-C	-6.40	1.44	1.52
1	35	185	MET	CA-C	6.40	1.61	1.52
1	4g	5	ASN	C-O	-6.40	1.16	1.24
1	6z	20	LEU	CA-C	6.40	1.61	1.52
1	7n	142	VAL	CA-C	-6.40	1.45	1.52
1	7V	142	VAL	C-N	6.40	1.42	1.33
1	87	217	ALA	N-CA	-6.40	1.37	1.45
1	8g	37	ILE	N-CA	-6.40	1.39	1.46
1	9k	170	LYS	CA-C	6.40	1.61	1.52
1	9J	97	ARG	CD-NE	6.40	1.55	1.46
1	bv	162	ARG	CA-C	6.40	1.61	1.52
1	1a	40	PHE	N-CA	-6.40	1.38	1.46
1	cf	12	HIS	CA-CB	6.40	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cA	120	HIS	ND1-CE1	6.40	1.39	1.32
1	ei	144	MET	CA-C	-6.40	1.44	1.52
1	gb	187	GLU	CA-C	6.40	1.60	1.53
1	gu	13	GLN	CA-C	6.40	1.60	1.52
1	hi	225	GLY	CA-C	6.40	1.60	1.51
1	hC	162	ARG	CA-C	6.40	1.61	1.52
1	hF	229	ARG	CA-C	6.40	1.61	1.52
1	ih	144	MET	CA-CB	6.40	1.63	1.53
1	iQ	37	ILE	CA-CB	-6.40	1.50	1.54
1	iS	103	ASP	C-N	6.40	1.42	1.33
1	jb	61	GLY	N-CA	6.40	1.53	1.45
1	jb	205	LEU	N-CA	6.40	1.54	1.46
1	1U	12	HIS	C-N	6.40	1.41	1.33
1	jX	126	VAL	CA-C	6.40	1.60	1.52
1	23	167	ARG	N-CA	-6.40	1.38	1.46
1	lb	228	ALA	CA-C	6.40	1.60	1.52
1	2D	207	PRO	CA-C	6.40	1.62	1.52
1	31	27	VAL	N-CA	-6.40	1.38	1.46
1	3l	116	GLY	N-CA	6.40	1.53	1.45
1	4a	91	ILE	N-CA	6.40	1.53	1.46
1	4b	107	THR	CA-C	-6.40	1.44	1.52
1	4g	117	TRP	CA-CB	6.40	1.63	1.53
1	4H	81	ASP	CA-CB	6.40	1.64	1.53
1	4P	129	ILE	C-N	6.40	1.42	1.33
1	53	230	VAL	N-CA	6.40	1.55	1.46
1	5E	65	ALA	CA-CB	6.40	1.64	1.53
1	5P	15	ILE	N-CA	6.40	1.53	1.46
1	5Y	153	ILE	N-CA	6.40	1.54	1.46
1	6j	143	ARG	N-CA	6.40	1.54	1.46
1	6N	49	PRO	N-CD	6.40	1.56	1.47
1	77	63	GLN	CA-C	6.40	1.61	1.52
1	7C	75	GLU	N-CA	6.40	1.54	1.46
1	80	188	THR	N-CA	6.40	1.54	1.46
1	99	126	VAL	C-N	6.40	1.41	1.33
1	9k	192	GLN	CA-C	6.40	1.61	1.52
1	9B	132	ARG	CA-C	-6.40	1.44	1.52
1	9M	204	ALA	C-O	-6.40	1.16	1.24
1	aH	200	THR	C-N	6.40	1.42	1.33
1	aJ	153	ILE	CA-C	-6.40	1.45	1.52
1	bg	222	GLY	CA-C	6.40	1.60	1.51
1	bx	63	GLN	CA-CB	6.40	1.64	1.53
1	bx	129	ILE	N-CA	6.40	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c3	213	GLU	CA-CB	6.40	1.63	1.53
1	c4	124	ILE	CA-CB	6.40	1.60	1.53
1	c5	139	ASN	CA-C	6.40	1.60	1.52
1	cn	166	ASP	CA-C	6.40	1.61	1.52
1	cx	87	HIS	N-CA	-6.40	1.37	1.45
1	d1	181	VAL	CA-CB	-6.40	1.46	1.54
1	fv	84	HIS	CA-C	6.40	1.58	1.52
1	n	209	ALA	C-N	6.40	1.42	1.33
1	x	196	PRO	C-O	-6.40	1.16	1.24
1	D	168	PHE	C-N	6.40	1.42	1.33
1	X	34	PRO	N-CD	-6.40	1.38	1.47
1	gd	62	HIS	CD2-NE2	6.40	1.44	1.37
1	gw	105	ALA	CA-CB	6.40	1.64	1.53
1	i8	172	LEU	CA-CB	6.40	1.63	1.53
1	jv	195	ASN	CA-CB	6.40	1.62	1.53
1	jC	67	GLN	CA-CB	6.40	1.63	1.53
1	ka	61	GLY	C-N	6.40	1.42	1.33
1	kC	3	VAL	CA-C	6.40	1.60	1.52
1	kT	127	GLY	CA-C	-6.40	1.45	1.52
1	lq	203	LYS	CA-CB	6.40	1.63	1.53
1	2k	210	THR	C-N	6.40	1.42	1.34
1	2K	218	CYS	CA-C	6.40	1.61	1.52
1	4a	220	GLY	C-N	6.40	1.43	1.33
1	4L	226	HIS	N-CA	-6.40	1.38	1.46
1	5D	173	ARG	CD-NE	6.40	1.55	1.46
1	5U	129	ILE	C-N	6.40	1.42	1.33
1	8g	143	ARG	N-CA	-6.40	1.37	1.46
1	8i	218	CYS	CA-C	-6.40	1.45	1.53
1	8k	138	LEU	N-CA	-6.40	1.38	1.46
1	9U	199	LYS	CA-CB	6.40	1.63	1.53
1	9V	179	GLN	C-O	6.40	1.31	1.24
1	11	80	TRP	NE1-CE2	-6.40	1.30	1.37
1	b5	120	HIS	CE1-NE2	6.40	1.39	1.32
1	ba	91	ILE	C-N	6.40	1.42	1.33
1	c9	125	PRO	CA-CB	-6.40	1.44	1.53
1	cE	131	LYS	CA-CB	6.40	1.63	1.53
1	cY	193	ASN	CA-CB	6.40	1.62	1.53
1	da	227	LYS	N-CA	6.40	1.55	1.46
1	dh	91	ILE	CA-C	-6.40	1.45	1.53
1	ds	168	PHE	CA-CB	6.40	1.63	1.53
1	e3	190	LEU	CA-C	6.40	1.61	1.52
1	fD	117	TRP	NE1-CE2	-6.40	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b	190	LEU	CA-C	6.40	1.60	1.52
1	l	211	LEU	CA-C	6.40	1.61	1.52
1	V	118	MET	CA-C	6.40	1.61	1.52
1	hT	136	LEU	C-O	-6.40	1.16	1.24
1	jR	121	ASN	C-N	-6.40	1.22	1.34
1	kC	11	VAL	CA-CB	6.40	1.62	1.54
1	kX	188	THR	C-N	6.40	1.42	1.33
1	3W	224	PRO	CA-C	6.40	1.60	1.52
1	3Z	18	ARG	CD-NE	6.40	1.55	1.46
1	5w	50	GLN	CA-C	6.40	1.60	1.52
1	5y	201	ILE	N-CA	-6.40	1.38	1.46
1	5O	84	HIS	CA-CB	6.40	1.61	1.53
1	6j	16	SER	CA-CB	6.40	1.62	1.53
1	6p	5	ASN	C-N	6.40	1.42	1.33
1	6W	102	SER	CA-C	6.40	1.61	1.52
1	7C	167	ARG	C-N	6.40	1.42	1.33
1	9K	71	GLU	C-N	6.40	1.42	1.33
1	a9	114	GLN	C-N	6.40	1.42	1.33
1	aI	117	TRP	CA-C	6.40	1.61	1.52
1	14	87	HIS	ND1-CE1	6.40	1.39	1.32
1	cp	107	THR	CA-CB	-6.40	1.43	1.53
1	cS	228	ALA	C-N	6.40	1.41	1.33
1	dF	93	PRO	CA-C	-6.40	1.43	1.52
1	fV	97	ARG	CD-NE	6.40	1.55	1.46
1	r	84	HIS	N-CA	6.40	1.51	1.46
1	gc	36	VAL	CA-CB	6.40	1.62	1.54
1	gs	41	SER	C-O	-6.40	1.16	1.24
1	iD	29	GLU	CA-CB	6.40	1.63	1.53
1	1U	67	GLN	CA-C	6.40	1.60	1.52
1	jZ	37	ILE	CA-CB	-6.40	1.49	1.53
1	k1	44	SER	N-CA	6.40	1.53	1.46
1	k4	121	ASN	CA-C	6.40	1.58	1.52
1	20	25	LYS	C-N	6.40	1.42	1.33
1	l1	229	ARG	CA-C	-6.40	1.44	1.53
1	2j	72	THR	CA-C	-6.40	1.44	1.52
1	2t	70	LYS	N-CA	-6.40	1.38	1.46
1	2K	112	GLN	CA-CB	6.40	1.63	1.53
1	3c	212	GLU	CA-C	6.40	1.61	1.52
1	3G	170	LYS	N-CA	-6.40	1.38	1.46
1	3Z	136	LEU	C-N	6.40	1.41	1.33
1	4p	226	HIS	CB-CG	6.40	1.59	1.50
1	4E	217	ALA	C-N	6.40	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5J	33	SER	CA-CB	-6.40	1.46	1.53
1	5L	211	LEU	CA-CB	6.40	1.63	1.53
1	65	63	GLN	C-O	-6.40	1.16	1.24
1	6t	177	ALA	CA-C	-6.40	1.44	1.52
1	6O	9	GLN	CA-C	6.40	1.61	1.53
1	7H	66	MET	N-CA	-6.40	1.38	1.46
1	7U	99	PRO	N-CD	-6.40	1.38	1.47
1	9p	102	SER	CA-C	6.40	1.61	1.52
1	a2	94	GLY	N-CA	6.40	1.54	1.45
1	ax	204	ALA	C-N	6.40	1.42	1.33
1	az	170	LYS	C-O	-6.40	1.16	1.24
1	c2	214	MET	N-CA	-6.40	1.38	1.46
1	cq	118	MET	N-CA	-6.40	1.38	1.46
1	cP	128	GLU	C-N	6.40	1.41	1.33
1	dT	141	ILE	CA-C	6.40	1.60	1.53
1	e7	214	MET	CA-CB	6.40	1.65	1.53
1	1u	81	ASP	CA-CB	6.40	1.63	1.53
1	1u	132	ARG	CA-C	6.40	1.61	1.52
1	ff	2	ILE	CA-C	6.40	1.60	1.52
1	x	79	GLU	CA-CB	6.40	1.63	1.53
1	4	127	GLY	CA-C	-6.40	1.44	1.52
1	h6	212	GLU	C-N	6.40	1.42	1.33
1	hx	226	HIS	CE1-NE2	-6.40	1.26	1.32
1	il	88	ALA	CA-C	-6.40	1.44	1.52
1	iJ	128	GLU	CA-CB	6.40	1.63	1.53
1	lj	97	ARG	CA-C	6.40	1.61	1.52
1	2C	123	PRO	CA-C	-6.40	1.45	1.52
1	2R	62	HIS	CA-C	6.40	1.61	1.53
1	5E	146	SER	CA-CB	6.40	1.65	1.53
1	6q	208	ALA	CA-C	6.40	1.60	1.52
1	6r	102	SER	CA-C	6.40	1.61	1.52
1	7b	103	ASP	C-N	6.40	1.42	1.33
1	7g	123	PRO	C-N	6.40	1.38	1.32
1	8w	201	ILE	CA-CB	-6.40	1.46	1.54
1	94	80	TRP	CA-C	6.40	1.61	1.52
1	9k	226	HIS	CG-CD2	6.40	1.42	1.35
1	aH	116	GLY	CA-C	6.40	1.59	1.52
1	aR	23	TRP	N-CA	-6.40	1.38	1.46
1	bn	211	LEU	C-N	6.40	1.41	1.33
1	bO	14	ALA	N-CA	6.40	1.54	1.46
1	cE	1	PRO	N-CD	6.40	1.56	1.47
1	1h	105	ALA	CA-C	6.40	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cZ	116	GLY	CA-C	-6.40	1.44	1.51
1	dd	190	LEU	CA-CB	6.40	1.63	1.53
1	dk	41	SER	CA-CB	6.40	1.63	1.53
1	f	135	ILE	CA-CB	-6.40	1.47	1.54
1	M	130	TYR	CA-C	-6.40	1.44	1.52
1	O	22	ALA	CA-C	6.40	1.60	1.52
1	1H	221	VAL	C-N	6.39	1.42	1.33
1	hs	84	HIS	ND1-CE1	6.39	1.39	1.32
1	hJ	132	ARG	C-N	6.39	1.42	1.33
1	i6	215	MET	N-CA	-6.39	1.38	1.46
1	ii	137	GLY	C-O	-6.39	1.16	1.23
1	jq	71	GLU	C-N	-6.39	1.25	1.33
1	1W	126	VAL	CA-CB	6.39	1.61	1.54
1	jw	62	HIS	CG-ND1	6.39	1.45	1.38
1	kg	25	LYS	CA-C	6.39	1.61	1.52
1	2f	16	SER	CA-C	6.39	1.60	1.53
1	2w	189	LEU	CA-C	-6.39	1.44	1.52
1	2I	83	LEU	N-CA	-6.39	1.38	1.46
1	38	62	HIS	N-CA	6.39	1.54	1.46
1	46	119	THR	C-N	6.39	1.41	1.33
1	4b	156	GLY	N-CA	6.39	1.53	1.44
1	4Q	126	VAL	N-CA	-6.39	1.39	1.46
1	5a	182	LYS	CA-C	6.39	1.61	1.52
1	5K	132	ARG	CD-NE	6.39	1.55	1.46
1	5O	226	HIS	CG-CD2	6.39	1.42	1.35
1	6t	225	GLY	CA-C	6.39	1.60	1.51
1	6A	224	PRO	N-CA	-6.39	1.39	1.46
1	7G	230	VAL	N-CA	6.39	1.52	1.46
1	7N	37	ILE	CA-C	6.39	1.59	1.52
1	84	27	VAL	CA-CB	6.39	1.63	1.54
1	8H	75	GLU	CA-CB	6.39	1.63	1.53
1	9y	157	PRO	CA-C	6.39	1.61	1.52
1	9A	161	PHE	CA-CB	6.39	1.63	1.53
1	9K	192	GLN	CA-C	-6.39	1.44	1.52
1	9P	24	VAL	CA-CB	6.39	1.62	1.54
1	9V	141	ILE	CA-CB	-6.39	1.46	1.54
1	a7	37	ILE	C-O	-6.39	1.19	1.24
1	ay	1	PRO	N-CD	6.39	1.56	1.47
1	aC	121	ASN	CA-CB	6.39	1.62	1.53
1	aK	9	GLN	CA-CB	6.39	1.65	1.53
1	1d	195	ASN	CA-C	6.39	1.60	1.52
1	ct	123	PRO	N-CA	6.39	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cA	26	VAL	N-CA	-6.39	1.39	1.46
1	cF	72	THR	CA-C	6.39	1.61	1.52
1	eS	62	HIS	N-CA	6.39	1.55	1.46
1	fh	188	THR	CA-C	6.39	1.61	1.52
1	0	28	GLU	N-CA	-6.39	1.38	1.46
1	gs	13	GLN	CA-C	6.39	1.59	1.52
1	gA	154	ARG	CA-C	6.39	1.60	1.52
1	gD	226	HIS	CE1-NE2	-6.39	1.26	1.32
1	h0	133	TRP	CA-C	6.39	1.60	1.52
1	h9	1	PRO	N-CD	6.39	1.56	1.47
1	he	193	ASN	CA-C	6.39	1.61	1.52
1	ht	37	ILE	CA-CB	6.39	1.58	1.53
1	if	30	LYS	C-N	6.39	1.40	1.32
1	ii	165	VAL	C-N	6.39	1.42	1.33
1	iM	149	SER	C-N	6.39	1.41	1.34
1	k9	123	PRO	CA-CB	6.39	1.62	1.53
1	l3	12	HIS	CB-CG	6.39	1.59	1.50
1	ln	162	ARG	NE-CZ	6.39	1.40	1.33
1	lx	102	SER	CA-CB	6.39	1.63	1.53
1	lR	69	LEU	CA-C	6.39	1.61	1.52
1	4M	206	GLY	C-N	6.39	1.40	1.33
1	53	203	LYS	C-N	6.39	1.42	1.33
1	5W	120	HIS	C-N	6.39	1.42	1.33
1	6w	208	ALA	N-CA	-6.39	1.37	1.45
1	6x	110	THR	C-N	6.39	1.42	1.33
1	6V	54	THR	CA-C	-6.39	1.44	1.52
1	70	2	ILE	N-CA	6.39	1.53	1.46
1	8d	223	GLY	N-CA	6.39	1.53	1.44
1	8p	132	ARG	CA-C	-6.39	1.44	1.52
1	8I	108	THR	N-CA	6.39	1.54	1.46
1	9r	183	ASN	CA-C	6.39	1.61	1.52
1	9s	163	ASP	C-N	6.39	1.41	1.33
1	bB	16	SER	CA-CB	6.39	1.63	1.52
1	cs	79	GLU	CA-CB	6.39	1.63	1.53
1	cy	12	HIS	CG-CD2	6.39	1.42	1.35
1	cM	132	ARG	CD-NE	6.39	1.55	1.46
1	d4	218	CYS	CA-CB	6.39	1.62	1.53
1	d9	59	VAL	CA-C	6.39	1.60	1.52
1	dx	163	ASP	N-CA	-6.39	1.38	1.46
1	eu	136	LEU	C-N	-6.39	1.26	1.33
1	eC	97	ARG	CD-NE	6.39	1.55	1.46
1	1v	229	ARG	C-N	6.39	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fb	3	VAL	CA-C	6.39	1.60	1.52
1	fk	125	PRO	N-CA	-6.39	1.42	1.47
1	fM	131	LYS	C-N	6.39	1.42	1.33
1	fS	11	VAL	CA-C	6.39	1.60	1.52
1	fT	166	ASP	C-N	6.39	1.42	1.33
1	1A	136	LEU	CA-CB	6.39	1.63	1.53
1	a	224	PRO	N-CD	-6.39	1.39	1.47
1	h	97	ARG	CD-NE	6.39	1.55	1.46
1	9	211	LEU	C-N	6.39	1.42	1.33
1	he	88	ALA	CA-CB	6.39	1.61	1.53
1	1T	103	ASP	C-O	6.39	1.31	1.24
1	jq	167	ARG	NE-CZ	6.39	1.40	1.33
1	jw	100	ARG	N-CA	-6.39	1.37	1.45
1	jC	121	ASN	CA-C	-6.39	1.47	1.52
1	1X	36	VAL	CA-CB	6.39	1.62	1.54
1	l7	68	MET	N-CA	6.39	1.54	1.46
1	2G	67	GLN	N-CA	6.39	1.53	1.46
1	2J	91	ILE	CA-CB	-6.39	1.47	1.54
1	39	21	ASN	N-CA	6.39	1.54	1.46
1	3q	57	ASN	CA-CB	6.39	1.63	1.53
1	3u	159	GLU	CA-CB	6.39	1.64	1.53
1	4i	184	TRP	CA-CB	6.39	1.63	1.53
1	5z	192	GLN	CA-CB	6.39	1.63	1.53
1	5S	120	HIS	CE1-NE2	-6.39	1.26	1.32
1	6G	72	THR	C-N	6.39	1.41	1.33
1	8A	28	GLU	CA-CB	6.39	1.63	1.53
1	9l	56	LEU	CA-C	6.39	1.61	1.52
1	ay	91	ILE	CA-C	6.39	1.60	1.52
1	cF	195	ASN	CA-C	6.39	1.59	1.53
1	fz	35	GLU	CA-CB	6.39	1.64	1.53
1	g5	170	LYS	CA-C	6.39	1.60	1.52
1	s	174	ALA	C-N	6.39	1.42	1.34
1	S	30	LYS	CA-CB	6.39	1.63	1.53
1	gv	31	ALA	N-CA	6.39	1.54	1.46
1	hO	30	LYS	C-N	6.39	1.40	1.32
1	hX	130	TYR	N-CA	-6.39	1.38	1.46
1	id	146	SER	CA-C	6.39	1.60	1.52
1	is	177	ALA	C-N	6.39	1.41	1.33
1	jz	92	GLU	C-N	6.39	1.41	1.34
1	jR	167	ARG	CA-CB	6.39	1.63	1.53
1	la	29	GLU	CA-C	6.39	1.61	1.52
1	lI	228	ALA	N-CA	-6.39	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2n	142	VAL	CA-CB	6.39	1.62	1.54
1	2D	94	GLY	CA-C	-6.39	1.43	1.51
1	2X	221	VAL	CA-C	6.39	1.60	1.52
1	3D	159	GLU	C-N	-6.39	1.25	1.33
1	4l	28	GLU	N-CA	6.39	1.54	1.46
1	4V	115	ILE	N-CA	6.39	1.54	1.46
1	5r	134	ILE	C-N	6.39	1.42	1.33
1	5R	128	GLU	CA-C	-6.39	1.44	1.52
1	5Y	128	GLU	CA-C	6.39	1.61	1.52
1	6Q	87	HIS	ND1-CE1	6.39	1.39	1.32
1	75	205	LEU	CA-C	6.39	1.61	1.52
1	7g	161	PHE	CA-C	6.39	1.61	1.52
1	7m	191	VAL	CA-CB	-6.39	1.46	1.54
1	8w	226	HIS	ND1-CE1	6.39	1.39	1.32
1	9g	167	ARG	NE-CZ	6.39	1.40	1.33
1	9q	219	GLN	C-N	6.39	1.41	1.33
1	9E	154	ARG	CD-NE	6.39	1.55	1.46
1	aa	112	GLN	N-CA	-6.39	1.38	1.46
1	bn	125	PRO	CA-CB	-6.39	1.45	1.53
1	bs	128	GLU	C-N	6.39	1.41	1.33
1	cg	146	SER	C-N	6.39	1.42	1.33
1	cj	70	LYS	CA-C	-6.39	1.44	1.52
1	dy	197	ASP	CA-CB	6.39	1.63	1.53
1	dB	162	ARG	CZ-NH1	-6.39	1.23	1.32
1	dE	93	PRO	C-N	6.39	1.42	1.33
1	eX	4	GLN	N-CA	-6.39	1.38	1.46
1	1u	226	HIS	CA-CB	6.39	1.61	1.53
1	g3	206	GLY	N-CA	6.39	1.53	1.44
1	g4	200	THR	C-N	6.39	1.42	1.33
1	g6	59	VAL	N-CA	-6.39	1.39	1.46
1	A	136	LEU	N-CA	-6.39	1.38	1.46
1	L	136	LEU	N-CA	6.39	1.54	1.46
1	gj	146	SER	CA-CB	6.39	1.62	1.53
1	hh	155	GLN	C-N	6.39	1.43	1.33
1	1O	87	HIS	CA-CB	6.39	1.64	1.53
1	iG	190	LEU	N-CA	-6.39	1.38	1.46
1	ja	2	ILE	CA-C	6.39	1.59	1.52
1	je	198	CYS	CA-C	-6.39	1.44	1.52
1	lf	164	TYR	CA-CB	6.39	1.63	1.53
1	2z	109	SER	CA-C	-6.39	1.45	1.52
1	2W	112	GLN	CA-C	6.39	1.61	1.52
1	3f	26	VAL	CA-C	-6.39	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3O	34	PRO	CA-CB	6.39	1.62	1.53
1	4j	14	ALA	C-O	-6.39	1.16	1.23
1	5R	124	ILE	N-CA	6.39	1.51	1.46
1	8h	16	SER	CA-CB	6.39	1.63	1.52
1	8B	30	LYS	CA-C	6.39	1.61	1.52
1	8H	221	VAL	CA-C	6.39	1.61	1.53
1	9V	69	LEU	CB-CG	6.39	1.66	1.53
1	bG	183	ASN	C-O	-6.39	1.16	1.24
1	bJ	63	GLN	C-N	6.39	1.42	1.33
1	c6	201	ILE	CA-C	6.39	1.60	1.52
1	c6	204	ALA	C-N	6.39	1.42	1.33
1	cK	152	ASP	C-N	6.39	1.41	1.33
1	fR	20	LEU	CA-CB	6.39	1.63	1.53
1	j	39	MET	N-CA	6.39	1.54	1.46
1	Q	45	GLU	CA-C	6.39	1.61	1.52
1	hC	87	HIS	ND1-CE1	6.39	1.39	1.32
1	il	210	THR	C-N	6.39	1.42	1.34
1	iI	162	ARG	CA-C	6.39	1.61	1.52
1	jO	115	ILE	N-CA	-6.39	1.38	1.46
1	jW	24	VAL	C-N	6.39	1.42	1.33
1	jZ	120	HIS	CA-C	6.39	1.61	1.53
1	lb	24	VAL	CA-CB	6.39	1.61	1.54
1	2m	23	TRP	CA-CB	6.39	1.63	1.53
1	2w	97	ARG	CD-NE	6.39	1.55	1.46
1	2Y	166	ASP	C-N	6.39	1.42	1.33
1	3s	104	ILE	CA-CB	-6.39	1.46	1.54
1	4M	138	LEU	CA-C	-6.39	1.44	1.52
1	4R	154	ARG	C-N	6.39	1.42	1.33
1	4Z	230	VAL	CA-C	6.39	1.60	1.52
1	5b	51	ASP	CA-CB	6.39	1.63	1.53
1	5U	129	ILE	CA-CB	6.39	1.61	1.54
1	6q	175	GLU	CA-C	-6.39	1.44	1.52
1	6y	45	GLU	N-CA	-6.39	1.38	1.46
1	81	192	GLN	CA-CB	6.39	1.63	1.53
1	88	55	MET	C-N	6.39	1.42	1.34
1	8l	61	GLY	C-O	-6.39	1.17	1.23
1	98	84	HIS	CA-C	6.39	1.60	1.52
1	9d	17	PRO	N-CA	-6.39	1.39	1.47
1	9i	222	GLY	C-N	6.39	1.43	1.33
1	9I	187	GLU	N-CA	-6.39	1.38	1.46
1	9W	12	HIS	CG-ND1	6.39	1.45	1.38
1	aK	155	GLN	CA-CB	6.39	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aV	101	GLY	CA-C	-6.39	1.45	1.52
1	aV	213	GLU	C-N	6.39	1.42	1.34
1	aY	37	ILE	CA-C	6.39	1.58	1.52
1	17	42	ALA	CA-C	6.39	1.61	1.52
1	c8	138	LEU	CA-CB	6.39	1.63	1.53
1	cO	169	TYR	CA-CB	6.39	1.63	1.53
1	cX	33	SER	CA-CB	-6.39	1.45	1.53
1	dm	93	PRO	CA-C	6.39	1.60	1.52
1	e7	228	ALA	N-CA	-6.39	1.38	1.46
1	eQ	18	ARG	CD-NE	6.39	1.55	1.46
1	ff	124	ILE	CA-C	6.39	1.58	1.52
1	fU	109	SER	CA-CB	6.39	1.64	1.53
1	w	221	VAL	CA-C	-6.39	1.44	1.52
1	E	53	ASN	CA-C	6.39	1.61	1.52
1	hh	66	MET	N-CA	6.38	1.53	1.46
1	hm	162	ARG	CA-CB	6.38	1.63	1.53
1	hI	46	GLY	CA-C	6.38	1.58	1.51
1	iz	134	ILE	CA-C	-6.38	1.45	1.52
1	j6	108	THR	CA-CB	-6.38	1.44	1.53
1	jh	47	ALA	CA-CB	6.38	1.63	1.53
1	jX	61	GLY	CA-C	-6.38	1.42	1.52
1	kD	228	ALA	N-CA	-6.38	1.38	1.46
1	kX	126	VAL	C-N	6.38	1.41	1.33
1	ll	104	ILE	C-N	6.38	1.42	1.33
1	lu	43	LEU	CA-C	-6.38	1.42	1.52
1	2B	18	ARG	CD-NE	6.38	1.55	1.46
1	2E	226	HIS	N-CA	-6.38	1.37	1.45
1	3Q	53	ASN	CA-CB	6.38	1.63	1.53
1	3T	138	LEU	C-N	6.38	1.42	1.33
1	49	164	TYR	CA-CB	6.38	1.63	1.53
1	4b	164	TYR	C-N	6.38	1.41	1.33
1	4j	110	THR	CA-C	6.38	1.61	1.53
1	4k	67	GLN	C-N	6.38	1.42	1.33
1	4G	32	PHE	C-N	6.38	1.41	1.32
1	5u	9	GLN	CA-C	-6.38	1.44	1.52
1	70	26	VAL	N-CA	-6.38	1.39	1.46
1	8x	12	HIS	CD2-NE2	6.38	1.44	1.37
1	8x	15	ILE	C-O	-6.38	1.16	1.24
1	8A	30	LYS	CA-C	-6.38	1.45	1.52
1	8N	168	PHE	CA-CB	6.38	1.63	1.53
1	9d	44	SER	N-CA	6.38	1.53	1.46
1	9R	216	THR	C-N	6.38	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bN	74	ASN	CA-C	6.38	1.60	1.52
1	cc	195	ASN	N-CA	6.38	1.54	1.45
1	dY	36	VAL	CA-CB	6.38	1.62	1.54
1	eg	115	ILE	CA-C	-6.38	1.44	1.52
1	eT	228	ALA	C-N	6.38	1.41	1.33
1	eW	226	HIS	ND1-CE1	6.38	1.39	1.32
1	fr	213	GLU	N-CA	-6.38	1.38	1.46
1	fB	19	THR	N-CA	6.38	1.54	1.46
1	fO	85	PRO	CA-C	6.38	1.60	1.52
1	4	28	GLU	CA-CB	6.38	1.61	1.53
1	gh	122	PRO	CA-CB	6.38	1.65	1.53
1	gj	199	LYS	CA-C	6.38	1.61	1.52
1	gT	41	SER	N-CA	-6.38	1.38	1.46
1	h3	120	HIS	C-N	6.38	1.39	1.33
1	1I	41	SER	N-CA	-6.38	1.38	1.46
1	hl	181	VAL	C-N	6.38	1.42	1.33
1	ix	17	PRO	N-CA	-6.38	1.38	1.47
1	iB	68	MET	C-N	6.38	1.42	1.33
1	jI	72	THR	CA-CB	-6.38	1.43	1.53
1	kj	137	GLY	CA-C	-6.38	1.42	1.51
1	kl	40	PHE	CA-C	-6.38	1.44	1.52
1	kM	201	ILE	CA-CB	-6.38	1.46	1.54
1	2S	100	ARG	CA-CB	6.38	1.63	1.53
1	2U	207	PRO	CA-CB	6.38	1.63	1.53
1	31	227	LYS	CA-CB	6.38	1.63	1.54
1	6Q	79	GLU	C-N	6.38	1.42	1.33
1	7t	9	GLN	CA-CB	6.38	1.62	1.53
1	9T	135	ILE	C-N	6.38	1.42	1.33
1	b1	42	ALA	C-N	6.38	1.42	1.33
1	cv	226	HIS	C-N	6.38	1.42	1.33
1	cw	4	GLN	C-N	6.38	1.41	1.33
1	cX	189	LEU	C-N	6.38	1.41	1.33
1	eB	197	ASP	N-CA	-6.38	1.38	1.46
1	gy	186	THR	CA-C	-6.38	1.45	1.52
1	gO	1	PRO	N-CA	6.38	1.56	1.47
1	hh	180	GLU	N-CA	-6.38	1.38	1.46
1	hC	22	ALA	C-O	-6.38	1.16	1.24
1	hE	198	CYS	N-CA	-6.38	1.37	1.46
1	ia	184	TRP	CA-CB	6.38	1.63	1.53
1	ju	84	HIS	CB-CG	6.38	1.59	1.50
1	22	224	PRO	N-CA	-6.38	1.38	1.47
1	kz	87	HIS	CG-CD2	6.38	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lg	158	LYS	CA-CB	6.38	1.63	1.53
1	lP	231	LEU	CA-C	6.38	1.66	1.52
1	2g	162	ARG	CA-C	6.38	1.61	1.52
1	2J	26	VAL	CA-C	-6.38	1.44	1.52
1	3c	43	LEU	C-N	6.38	1.42	1.33
1	3w	173	ARG	CD-NE	6.38	1.55	1.46
1	44	40	PHE	CA-C	6.38	1.61	1.52
1	6h	120	HIS	ND1-CE1	6.38	1.39	1.32
1	73	109	SER	C-N	6.38	1.42	1.33
1	7N	142	VAL	CA-C	-6.38	1.44	1.52
1	7V	164	TYR	C-N	6.38	1.42	1.33
1	8r	96	MET	CA-CB	6.38	1.63	1.53
1	92	18	ARG	C-N	6.38	1.42	1.33
1	9v	72	THR	C-N	6.38	1.42	1.33
1	ab	5	ASN	CA-CB	6.38	1.63	1.53
1	ad	210	THR	C-N	6.38	1.42	1.33
1	bh	87	HIS	ND1-CE1	6.38	1.39	1.32
1	1c	80	TRP	C-N	6.38	1.42	1.33
1	ck	105	ALA	CA-C	-6.38	1.43	1.52
1	ct	219	GLN	C-N	6.38	1.42	1.33
1	cJ	62	HIS	CE1-NE2	6.38	1.39	1.32
1	cS	134	ILE	CA-C	-6.38	1.44	1.52
1	cW	104	ILE	CA-C	6.38	1.61	1.52
1	d4	229	ARG	CA-CB	6.38	1.61	1.53
1	dq	181	VAL	CA-C	6.38	1.60	1.52
1	du	229	ARG	CA-C	6.38	1.60	1.52
1	dw	131	LYS	C-N	6.38	1.42	1.33
1	1m	7	GLN	N-CA	6.38	1.54	1.46
1	dK	44	SER	CA-CB	6.38	1.62	1.53
1	em	90	PRO	N-CA	6.38	1.54	1.47
1	eo	72	THR	C-N	6.38	1.42	1.33
1	g0	166	ASP	C-N	6.38	1.42	1.33
1	g7	25	LYS	CA-CB	6.38	1.63	1.53
1	c	49	PRO	N-CA	-6.38	1.39	1.47
1	r	226	HIS	ND1-CE1	6.38	1.39	1.32
1	L	22	ALA	CA-CB	6.38	1.63	1.53
1	h6	85	PRO	CA-C	-6.38	1.43	1.52
1	hH	149	SER	N-CA	6.38	1.53	1.46
1	i6	12	HIS	ND1-CE1	6.38	1.39	1.32
1	23	73	ILE	CA-CB	-6.38	1.47	1.54
1	lG	191	VAL	CA-CB	6.38	1.62	1.54
1	3L	180	GLU	CA-C	6.38	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Y	72	THR	C-O	-6.38	1.16	1.24
1	6O	45	GLU	N-CA	-6.38	1.38	1.46
1	6O	107	THR	CA-CB	6.38	1.63	1.53
1	77	197	ASP	C-N	6.38	1.42	1.33
1	8D	143	ARG	C-N	6.38	1.42	1.33
1	8M	97	ARG	CZ-NH2	-6.38	1.25	1.33
1	8Y	83	LEU	N-CA	6.38	1.54	1.46
1	9v	219	GLN	CA-CB	6.38	1.63	1.53
1	aA	62	HIS	CE1-NE2	6.38	1.39	1.32
1	aD	229	ARG	C-O	-6.38	1.16	1.23
1	1f	131	LYS	C-N	6.38	1.42	1.33
1	cI	87	HIS	ND1-CE1	6.38	1.39	1.32
1	dm	128	GLU	C-O	6.38	1.31	1.24
1	fE	151	LEU	CA-C	6.38	1.61	1.52
1	fW	230	VAL	C-N	6.38	1.42	1.33
1	m	180	GLU	CA-C	-6.38	1.44	1.52
1	gq	64	ALA	N-CA	-6.38	1.38	1.46
1	gO	5	ASN	N-CA	-6.38	1.37	1.46
1	ho	167	ARG	CZ-NH1	-6.38	1.23	1.32
1	hM	83	LEU	N-CA	-6.38	1.38	1.46
1	hO	58	THR	CA-C	-6.38	1.44	1.52
1	hO	111	LEU	CA-CB	6.38	1.63	1.53
1	jm	96	MET	N-CA	-6.38	1.37	1.45
1	kU	86	VAL	N-CA	-6.38	1.38	1.46
1	2f	126	VAL	CA-C	6.38	1.62	1.52
1	2G	217	ALA	N-CA	-6.38	1.37	1.45
1	2Y	166	ASP	CA-C	6.38	1.61	1.52
1	2Z	21	ASN	CA-CB	6.38	1.63	1.53
1	3g	179	GLN	CA-C	6.38	1.61	1.52
1	3j	16	SER	CA-C	-6.38	1.46	1.53
1	42	83	LEU	CA-C	-6.38	1.44	1.53
1	4Y	199	LYS	C-N	6.38	1.41	1.33
1	59	125	PRO	C-N	6.38	1.42	1.33
1	5d	130	TYR	CA-C	6.38	1.61	1.52
1	5u	163	ASP	C-O	-6.38	1.16	1.24
1	5G	12	HIS	CA-C	-6.38	1.45	1.52
1	6W	114	GLN	N-CA	6.38	1.53	1.46
1	74	216	THR	CA-CB	-6.38	1.43	1.53
1	7Q	198	CYS	CA-CB	6.38	1.63	1.53
1	8m	71	GLU	C-N	-6.38	1.25	1.33
1	8I	4	GLN	N-CA	6.38	1.54	1.46
1	aC	230	VAL	CA-CB	-6.38	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aG	161	PHE	CA-CB	6.38	1.64	1.53
1	aG	192	GLN	CA-CB	6.38	1.63	1.53
1	aU	37	ILE	CA-CB	-6.38	1.50	1.54
1	bp	16	SER	CA-C	-6.38	1.46	1.53
1	bY	204	ALA	N-CA	-6.38	1.38	1.46
1	cq	100	ARG	CD-NE	6.38	1.55	1.46
1	cw	106	GLY	CA-C	-6.38	1.42	1.51
1	ed	183	ASN	CA-CB	6.38	1.63	1.53
1	eh	136	LEU	CA-C	-6.38	1.44	1.52
1	eh	214	MET	CA-C	6.38	1.61	1.52
1	en	85	PRO	CA-CB	6.38	1.62	1.53
1	f7	161	PHE	CA-CB	6.38	1.63	1.53
1	fJ	90	PRO	CA-CB	6.38	1.62	1.53
1	S	62	HIS	ND1-CE1	6.38	1.39	1.32
1	T	45	GLU	CA-CB	6.38	1.63	1.53
1	gd	72	THR	CA-C	6.38	1.61	1.52
1	1C	100	ARG	CD-NE	6.38	1.55	1.46
1	1H	77	ALA	N-CA	-6.38	1.38	1.46
1	hw	84	HIS	CD2-NE2	6.38	1.44	1.37
1	hN	90	PRO	N-CA	-6.38	1.40	1.47
1	hX	10	MET	CA-C	6.38	1.61	1.52
1	i9	33	SER	C-N	6.38	1.42	1.33
1	j7	188	THR	C-N	6.38	1.42	1.33
1	js	99	PRO	CA-C	6.38	1.59	1.52
1	k6	53	ASN	CA-CB	6.38	1.63	1.53
1	kk	14	ALA	CA-CB	6.38	1.63	1.53
1	2b	209	ALA	CA-C	-6.38	1.44	1.52
1	2n	187	GLU	CA-C	6.38	1.58	1.52
1	32	86	VAL	CA-CB	-6.38	1.47	1.54
1	3s	143	ARG	C-N	6.38	1.42	1.33
1	3s	192	GLN	CA-CB	6.38	1.63	1.53
1	6i	168	PHE	N-CA	-6.38	1.38	1.46
1	76	62	HIS	CG-CD2	6.38	1.42	1.35
1	7v	127	GLY	CA-C	-6.38	1.45	1.52
1	8a	207	PRO	C-O	-6.38	1.16	1.24
1	99	12	HIS	CE1-NE2	6.38	1.39	1.32
1	ap	165	VAL	CA-CB	-6.38	1.46	1.54
1	cn	2	ILE	N-CA	6.38	1.53	1.46
1	1g	42	ALA	CA-CB	6.38	1.63	1.53
1	cK	100	ARG	CA-CB	6.38	1.63	1.53
1	d3	192	GLN	C-N	6.38	1.42	1.33
1	db	85	PRO	CA-C	6.38	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dZ	6	LEU	CA-C	-6.38	1.45	1.52
1	fU	189	LEU	CA-CB	6.38	1.61	1.53
1	g1	112	GLN	CA-CB	6.38	1.63	1.53
1	1B	12	HIS	ND1-CE1	6.38	1.39	1.32
1	1J	184	TRP	NE1-CE2	6.38	1.44	1.37
1	hX	15	ILE	N-CA	6.38	1.53	1.46
1	iA	120	HIS	ND1-CE1	6.38	1.39	1.32
1	iI	97	ARG	CA-C	-6.38	1.45	1.52
1	js	226	HIS	C-N	6.38	1.41	1.33
1	jt	163	ASP	C-O	-6.38	1.16	1.24
1	jC	173	ARG	CD-NE	6.38	1.55	1.46
1	jF	128	GLU	CA-CB	6.38	1.63	1.53
1	4z	227	LYS	CA-C	6.38	1.61	1.52
1	4U	26	VAL	CA-C	-6.38	1.44	1.52
1	57	24	VAL	CA-CB	-6.38	1.45	1.54
1	84	135	ILE	CA-CB	6.38	1.61	1.54
1	8f	128	GLU	CA-CB	6.38	1.63	1.53
1	8o	149	SER	CA-C	-6.38	1.44	1.52
1	8K	87	HIS	CB-CG	6.38	1.59	1.50
1	aZ	190	LEU	CA-C	-6.38	1.44	1.52
1	bx	134	ILE	CA-C	6.38	1.60	1.52
1	bK	28	GLU	CA-CB	6.38	1.63	1.53
1	cU	165	VAL	C-N	6.38	1.42	1.33
1	df	229	ARG	N-CA	-6.38	1.38	1.46
1	dB	138	LEU	CA-CB	6.38	1.63	1.53
1	ej	130	TYR	CA-C	6.38	1.61	1.52
1	d	229	ARG	CD-NE	6.38	1.55	1.46
1	l	100	ARG	NE-CZ	6.38	1.40	1.33
1	gH	41	SER	C-N	6.37	1.42	1.33
1	h7	114	GLN	CA-C	-6.37	1.44	1.52
1	j7	229	ARG	CA-C	-6.37	1.44	1.52
1	ka	13	GLN	CA-C	6.37	1.60	1.52
1	ka	179	GLN	C-N	6.37	1.42	1.33
1	kh	125	PRO	C-N	6.37	1.42	1.33
1	2Q	130	TYR	CA-C	-6.37	1.44	1.52
1	2U	167	ARG	CA-CB	6.37	1.63	1.53
1	3y	69	LEU	N-CA	6.37	1.53	1.46
1	3G	15	ILE	N-CA	6.37	1.54	1.46
1	4k	163	ASP	CA-C	-6.37	1.44	1.52
1	5a	28	GLU	CA-CB	6.37	1.63	1.53
1	5e	117	TRP	CA-C	6.37	1.61	1.52
1	6j	228	ALA	CA-C	-6.37	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	74	176	GLN	CA-C	6.37	1.60	1.52
1	8e	179	GLN	CA-CB	-6.37	1.43	1.53
1	9L	126	VAL	CA-C	-6.37	1.44	1.52
1	a3	230	VAL	C-N	6.37	1.42	1.33
1	10	87	HIS	ND1-CE1	6.37	1.39	1.32
1	az	114	GLN	CA-C	-6.37	1.44	1.52
1	aX	169	TYR	CA-C	6.37	1.61	1.52
1	b1	75	GLU	N-CA	-6.37	1.38	1.46
1	b3	29	GLU	CA-C	6.37	1.61	1.52
1	bm	154	ARG	CA-C	6.37	1.60	1.52
1	bz	210	THR	C-N	6.37	1.42	1.33
1	c9	35	GLU	C-N	6.37	1.41	1.33
1	cj	189	LEU	CA-C	6.37	1.61	1.52
1	cm	180	GLU	CA-C	6.37	1.61	1.52
1	1g	184	TRP	CA-CB	6.37	1.63	1.53
1	dt	212	GLU	CA-CB	6.37	1.63	1.53
1	ei	31	ALA	N-CA	6.37	1.54	1.46
1	er	215	MET	N-CA	6.37	1.54	1.46
1	eD	136	LEU	C-N	6.37	1.41	1.33
1	fm	10	MET	N-CA	6.37	1.54	1.46
1	1x	129	ILE	C-O	-6.37	1.16	1.24
1	fW	141	ILE	N-CA	-6.37	1.39	1.46
1	o	98	GLU	CA-CB	6.37	1.62	1.53
1	w	35	GLU	CA-CB	6.37	1.63	1.53
1	5	220	GLY	CA-C	-6.37	1.40	1.52
1	gV	50	GLN	C-N	6.37	1.41	1.33
1	hG	124	ILE	CA-C	-6.37	1.47	1.53
1	hN	208	ALA	CA-CB	-6.37	1.43	1.53
1	j3	132	ARG	C-N	6.37	1.42	1.33
1	jq	160	PRO	CA-CB	-6.37	1.45	1.53
1	km	198	CYS	CA-CB	6.37	1.63	1.53
1	kC	130	TYR	CA-CB	6.37	1.63	1.53
1	lC	43	LEU	N-CA	-6.37	1.38	1.46
1	2U	35	GLU	CA-C	6.37	1.61	1.52
1	3f	171	THR	CA-C	6.37	1.60	1.52
1	3o	27	VAL	C-N	6.37	1.42	1.33
1	3x	108	THR	CA-CB	-6.37	1.43	1.53
1	3C	67	GLN	CA-CB	6.37	1.63	1.53
1	3U	205	LEU	N-CA	-6.37	1.37	1.46
1	4U	92	GLU	CA-C	6.37	1.60	1.52
1	59	157	PRO	CA-C	6.37	1.60	1.53
1	5o	85	PRO	CA-C	-6.37	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6U	100	ARG	CA-CB	6.37	1.63	1.53
1	7g	227	LYS	N-CA	-6.37	1.37	1.46
1	7Y	124	ILE	N-CA	6.37	1.54	1.46
1	8K	191	VAL	CA-CB	6.37	1.62	1.54
1	9k	25	LYS	C-N	6.37	1.41	1.34
1	13	124	ILE	CA-C	-6.37	1.48	1.53
1	b6	3	VAL	CA-C	6.37	1.60	1.52
1	bB	3	VAL	CA-CB	-6.37	1.46	1.54
1	bC	149	SER	C-N	6.37	1.41	1.34
1	c6	121	ASN	N-CA	-6.37	1.38	1.46
1	1d	36	VAL	C-N	6.37	1.40	1.33
1	cg	166	ASP	CA-C	6.37	1.61	1.52
1	d4	45	GLU	N-CA	6.37	1.54	1.46
1	dm	12	HIS	ND1-CE1	6.37	1.39	1.32
1	dw	97	ARG	CA-CB	6.37	1.63	1.53
1	1p	118	MET	C-N	6.37	1.42	1.33
1	1p	183	ASN	CA-C	6.37	1.61	1.52
1	fo	149	SER	C-N	6.37	1.41	1.34
1	fq	148	THR	N-CA	6.37	1.53	1.46
1	fU	91	ILE	CA-CB	-6.37	1.46	1.54
1	g5	7	GLN	CA-CB	6.37	1.64	1.53
1	gD	53	ASN	N-CA	-6.37	1.38	1.46
1	ic	1	PRO	N-CD	6.37	1.56	1.47
1	in	84	HIS	N-CA	-6.37	1.39	1.46
1	jt	143	ARG	CA-C	6.37	1.60	1.52
1	l6	26	VAL	C-O	-6.37	1.17	1.24
1	4s	121	ASN	CA-CB	6.37	1.61	1.52
1	5G	179	GLN	CA-C	-6.37	1.44	1.52
1	9G	143	ARG	CA-C	6.37	1.61	1.52
1	a5	138	LEU	CA-C	-6.37	1.44	1.52
1	14	202	LEU	CA-CB	6.37	1.63	1.53
1	bk	143	ARG	CD-NE	6.37	1.55	1.46
1	bH	96	MET	N-CA	6.37	1.53	1.46
1	bS	176	GLN	CA-CB	6.37	1.61	1.53
1	du	175	GLU	CA-CB	6.37	1.62	1.53
1	dx	179	GLN	C-N	6.37	1.42	1.34
1	f8	206	GLY	C-N	6.37	1.40	1.34
1	fF	80	TRP	N-CA	-6.37	1.38	1.46
1	e	8	GLY	CA-C	-6.37	1.42	1.51
1	m	24	VAL	CA-C	-6.37	1.45	1.52
1	1E	29	GLU	CA-C	6.37	1.60	1.52
1	1E	103	ASP	C-N	6.37	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gO	164	TYR	C-O	-6.37	1.16	1.24
1	hm	131	LYS	N-CA	6.37	1.54	1.46
1	hm	139	ASN	C-N	6.37	1.42	1.33
1	il	120	HIS	CD2-NE2	6.37	1.44	1.37
1	it	18	ARG	CA-CB	6.37	1.63	1.53
1	iE	108	THR	CA-C	-6.37	1.44	1.52
1	j9	110	THR	CA-C	6.37	1.60	1.52
1	ko	144	MET	CA-CB	6.37	1.63	1.53
1	kD	54	THR	N-CA	6.37	1.54	1.46
1	lv	195	ASN	CA-CB	6.37	1.63	1.53
1	lF	205	LEU	N-CA	-6.37	1.37	1.46
1	lN	27	VAL	N-CA	6.37	1.54	1.46
1	4d	168	PHE	CA-CB	6.37	1.63	1.53
1	4Q	132	ARG	CA-C	-6.37	1.44	1.52
1	5J	154	ARG	NE-CZ	-6.37	1.26	1.33
1	6w	94	GLY	CA-C	-6.37	1.42	1.52
1	6C	182	LYS	CA-C	-6.37	1.44	1.52
1	6W	51	ASP	N-CA	-6.37	1.38	1.46
1	7j	77	ALA	N-CA	6.37	1.54	1.46
1	80	146	SER	CA-CB	6.37	1.63	1.53
1	8N	33	SER	CA-CB	6.37	1.63	1.54
1	97	15	ILE	C-O	-6.37	1.17	1.24
1	9S	87	HIS	ND1-CE1	6.37	1.39	1.32
1	11	100	ARG	CD-NE	6.37	1.55	1.46
1	av	25	LYS	CA-C	-6.37	1.44	1.52
1	15	162	ARG	CA-CB	6.37	1.64	1.53
1	bk	139	ASN	N-CA	6.37	1.54	1.46
1	bK	222	GLY	C-N	6.37	1.43	1.33
1	c8	84	HIS	CB-CG	-6.37	1.41	1.50
1	ce	165	VAL	C-N	6.37	1.41	1.33
1	cS	62	HIS	CE1-NE2	6.37	1.39	1.32
1	cS	224	PRO	C-N	6.37	1.40	1.32
1	cU	228	ALA	CA-C	6.37	1.60	1.52
1	d5	100	ARG	CA-CB	6.37	1.63	1.53
1	df	41	SER	CA-C	6.37	1.61	1.52
1	dn	213	GLU	CA-C	-6.37	1.44	1.52
1	eP	173	ARG	CD-NE	6.37	1.55	1.46
1	fa	76	GLU	C-N	6.37	1.42	1.33
1	fD	139	ASN	CA-C	6.37	1.61	1.52
1	fQ	21	ASN	CA-C	-6.37	1.44	1.52
1	hs	71	GLU	N-CA	6.37	1.54	1.46
1	iE	35	GLU	N-CA	-6.37	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jV	205	LEU	CA-CB	6.37	1.64	1.53
1	k8	143	ARG	N-CA	6.37	1.54	1.46
1	kx	24	VAL	CA-C	-6.37	1.45	1.52
1	23	118	MET	CA-C	6.37	1.61	1.52
1	4I	181	VAL	CA-CB	6.37	1.62	1.54
1	4J	123	PRO	CA-C	6.37	1.60	1.52
1	4Z	84	HIS	CA-CB	6.37	1.61	1.53
1	6n	73	ILE	CA-CB	-6.37	1.46	1.54
1	73	162	ARG	CA-C	-6.37	1.44	1.52
1	8k	112	GLN	N-CA	-6.37	1.38	1.46
1	8O	123	PRO	N-CD	-6.37	1.38	1.47
1	9r	47	ALA	N-CA	-6.37	1.37	1.46
1	aa	95	GLN	N-CA	-6.37	1.37	1.46
1	bH	215	MET	CA-CB	6.37	1.62	1.53
1	c8	53	ASN	CA-C	6.37	1.61	1.52
1	d9	169	TYR	CA-CB	6.37	1.63	1.53
1	1k	115	ILE	N-CA	-6.37	1.39	1.46
1	e8	169	TYR	C-N	6.37	1.42	1.33
1	eg	146	SER	CA-CB	6.37	1.61	1.53
1	f5	162	ARG	N-CA	-6.37	1.38	1.46
1	fB	37	ILE	CA-C	6.37	1.58	1.52
1	g	157	PRO	N-CD	-6.37	1.38	1.47
1	gs	97	ARG	CD-NE	6.37	1.55	1.46
1	gB	127	GLY	CA-C	-6.37	1.44	1.52
1	1H	39	MET	CA-C	-6.37	1.44	1.52
1	hB	24	VAL	CA-C	-6.37	1.44	1.52
1	il	7	GLN	C-N	6.37	1.39	1.33
1	1Q	85	PRO	N-CD	6.37	1.56	1.47
1	1S	50	GLN	CA-CB	6.37	1.63	1.53
1	j0	7	GLN	C-N	6.37	1.43	1.33
1	j5	28	GLU	CA-C	6.37	1.61	1.52
1	2l	164	TYR	CA-CB	6.37	1.62	1.53
1	2o	199	LYS	C-N	6.37	1.42	1.33
1	2r	84	HIS	CG-ND1	-6.37	1.31	1.38
1	2u	156	GLY	CA-C	6.37	1.61	1.51
1	3n	47	ALA	CA-CB	6.37	1.62	1.53
1	4A	120	HIS	ND1-CE1	6.37	1.39	1.32
1	4I	133	TRP	NE1-CE2	6.37	1.44	1.37
1	4X	127	GLY	CA-C	6.37	1.59	1.52
1	5U	87	HIS	ND1-CE1	6.37	1.39	1.32
1	6G	120	HIS	CG-ND1	6.37	1.45	1.38
1	7G	23	TRP	NE1-CE2	-6.37	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8H	134	ILE	C-N	6.37	1.41	1.33
1	9g	82	ARG	CA-C	6.37	1.61	1.52
1	9k	145	TYR	CZ-OH	6.37	1.51	1.38
1	9R	162	ARG	CA-CB	6.37	1.63	1.53
1	10	116	GLY	C-N	6.37	1.42	1.33
1	b1	12	HIS	CD2-NE2	6.37	1.44	1.37
1	bv	33	SER	CA-C	6.37	1.58	1.52
1	bQ	168	PHE	CA-C	6.37	1.61	1.52
1	bX	194	ALA	C-N	6.37	1.42	1.33
1	cI	229	ARG	CA-C	-6.37	1.44	1.52
1	cP	83	LEU	C-N	6.37	1.41	1.33
1	d8	129	ILE	CA-C	6.37	1.62	1.52
1	dl	93	PRO	N-CD	-6.37	1.38	1.47
1	eB	14	ALA	C-N	6.37	1.40	1.33
1	g6	102	SER	N-CA	-6.37	1.38	1.46
1	v	226	HIS	ND1-CE1	6.37	1.39	1.32
1	A	123	PRO	C-N	6.37	1.38	1.33
1	I	67	GLN	CA-C	6.37	1.61	1.52
1	I	159	GLU	CA-C	6.37	1.60	1.52
1	6	99	PRO	CA-C	6.37	1.61	1.52
1	1C	125	PRO	CA-CB	6.36	1.58	1.53
1	1D	222	GLY	C-N	6.36	1.43	1.33
1	1E	62	HIS	CG-CD2	-6.36	1.28	1.35
1	1H	33	SER	N-CA	-6.36	1.40	1.45
1	hD	19	THR	CA-CB	6.36	1.63	1.53
1	1L	150	ILE	C-O	-6.36	1.17	1.24
1	hQ	167	ARG	CA-CB	6.36	1.63	1.53
1	hV	69	LEU	CA-CB	6.36	1.63	1.53
1	iw	82	ARG	NE-CZ	6.36	1.40	1.33
1	iW	181	VAL	CA-CB	6.36	1.62	1.54
1	jB	192	GLN	CA-CB	6.36	1.63	1.53
1	k5	182	LYS	CA-CB	6.36	1.63	1.53
1	kE	48	THR	CA-CB	6.36	1.63	1.53
1	kF	165	VAL	CA-C	-6.36	1.44	1.52
1	kP	120	HIS	ND1-CE1	6.36	1.39	1.32
1	lh	229	ARG	CD-NE	6.36	1.55	1.46
1	lA	76	GLU	CA-C	6.36	1.61	1.52
1	2L	80	TRP	CA-CB	6.36	1.63	1.53
1	3w	83	LEU	CA-CB	6.36	1.63	1.53
1	3w	120	HIS	CE1-NE2	-6.36	1.26	1.32
1	3y	187	GLU	C-O	-6.36	1.16	1.24
1	3M	86	VAL	CA-CB	-6.36	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	44	109	SER	C-O	6.36	1.31	1.23
1	5a	141	ILE	CA-CB	6.36	1.62	1.54
1	6o	83	LEU	CA-C	6.36	1.61	1.52
1	78	118	MET	C-N	6.36	1.42	1.33
1	7i	128	GLU	C-O	-6.36	1.16	1.24
1	8i	149	SER	CA-C	6.36	1.61	1.52
1	8Y	201	ILE	CA-C	6.36	1.61	1.52
1	9e	25	LYS	C-N	6.36	1.41	1.33
1	9H	76	GLU	CA-CB	6.36	1.63	1.53
1	9M	32	PHE	N-CA	-6.36	1.38	1.46
1	9N	132	ARG	CA-CB	6.36	1.63	1.53
1	9R	170	LYS	CA-CB	6.36	1.63	1.53
1	9S	82	ARG	CA-CB	6.36	1.63	1.53
1	9Y	84	HIS	CD2-NE2	6.36	1.44	1.37
1	a1	164	TYR	CA-CB	6.36	1.63	1.53
1	b1	46	GLY	CA-C	6.36	1.60	1.51
1	bb	162	ARG	CD-NE	6.36	1.55	1.46
1	bt	47	ALA	CA-C	6.36	1.60	1.52
1	bS	57	ASN	N-CA	-6.36	1.38	1.46
1	da	226	HIS	CA-C	6.36	1.61	1.52
1	db	117	TRP	CA-C	6.36	1.60	1.52
1	dZ	114	GLN	CA-CB	6.36	1.63	1.53
1	ef	172	LEU	C-N	6.36	1.42	1.33
1	fd	202	LEU	N-CA	6.36	1.53	1.46
1	ft	120	HIS	CB-CG	-6.36	1.41	1.50
1	fA	112	GLN	CA-C	-6.36	1.44	1.52
1	fL	120	HIS	CA-C	-6.36	1.44	1.52
1	fQ	188	THR	CA-C	-6.36	1.46	1.52
1	fQ	218	CYS	CA-CB	6.36	1.62	1.53
1	fV	98	GLU	C-N	6.36	1.39	1.33
1	G	151	LEU	CA-C	-6.36	1.44	1.52
1	H	87	HIS	CB-CG	6.36	1.59	1.50
1	ir	100	ARG	NE-CZ	-6.36	1.26	1.33
1	iZ	86	VAL	CA-CB	-6.36	1.45	1.54
1	je	158	LYS	CA-C	6.36	1.60	1.52
1	jr	62	HIS	CE1-NE2	6.36	1.39	1.32
1	l4	153	ILE	CA-C	6.36	1.59	1.52
1	2f	179	GLN	C-N	6.36	1.42	1.33
1	42	71	GLU	C-N	6.36	1.42	1.33
1	4q	143	ARG	N-CA	6.36	1.53	1.46
1	7q	217	ALA	N-CA	-6.36	1.37	1.45
1	7u	215	MET	CA-CB	6.36	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8e	150	ILE	CA-CB	6.36	1.63	1.54
1	8t	136	LEU	CA-CB	6.36	1.63	1.53
1	8Y	195	ASN	CA-CB	6.36	1.63	1.53
1	9p	38	PRO	C-N	6.36	1.42	1.33
1	dv	176	GLN	CA-C	6.36	1.61	1.52
1	dx	120	HIS	ND1-CE1	6.36	1.39	1.32
1	dS	120	HIS	CG-ND1	6.36	1.45	1.38
1	ed	128	GLU	N-CA	-6.36	1.38	1.46
1	fK	6	LEU	C-N	6.36	1.41	1.33
1	D	79	GLU	CA-C	-6.36	1.44	1.52
1	hl	92	GLU	CA-CB	6.36	1.62	1.53
1	hU	226	HIS	ND1-CE1	6.36	1.39	1.32
1	ii	118	MET	CA-C	6.36	1.61	1.52
1	ij	194	ALA	CA-CB	6.36	1.63	1.53
1	iQ	116	GLY	N-CA	-6.36	1.38	1.45
1	jh	193	ASN	C-O	6.36	1.32	1.24
1	jK	175	GLU	CA-CB	6.36	1.64	1.53
1	1Z	97	ARG	CD-NE	6.36	1.55	1.46
1	kd	120	HIS	C-N	6.36	1.42	1.33
1	kn	215	MET	C-N	6.36	1.42	1.33
1	kq	229	ARG	CA-C	-6.36	1.44	1.52
1	lB	184	TRP	CD2-CE3	-6.36	1.30	1.40
1	2j	113	GLU	CA-C	6.36	1.61	1.52
1	2L	61	GLY	CA-C	-6.36	1.43	1.51
1	3f	123	PRO	C-N	6.36	1.39	1.33
1	3P	152	ASP	C-N	6.36	1.40	1.33
1	4f	58	THR	C-N	6.36	1.39	1.33
1	4x	168	PHE	C-N	6.36	1.42	1.33
1	4O	86	VAL	CA-CB	6.36	1.61	1.54
1	5s	113	GLU	N-CA	-6.36	1.38	1.46
1	5P	84	HIS	ND1-CE1	6.36	1.39	1.32
1	6S	84	HIS	CD2-NE2	6.36	1.44	1.37
1	77	187	GLU	CA-CB	6.36	1.63	1.53
1	7a	112	GLN	C-N	6.36	1.42	1.33
1	7e	92	GLU	CA-C	6.36	1.60	1.53
1	8t	55	MET	CA-CB	6.36	1.63	1.53
1	8Q	162	ARG	CZ-NH2	-6.36	1.25	1.33
1	8R	128	GLU	CA-C	-6.36	1.44	1.52
1	8T	183	ASN	C-N	6.36	1.42	1.33
1	9g	86	VAL	CA-CB	-6.36	1.45	1.54
1	aI	219	GLN	CA-CB	6.36	1.63	1.53
1	b7	201	ILE	CA-CB	-6.36	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bC	133	TRP	CA-C	6.36	1.61	1.52
1	bL	103	ASP	CA-C	6.36	1.61	1.52
1	1c	68	MET	CA-C	6.36	1.61	1.52
1	1d	80	TRP	NE1-CE2	-6.36	1.30	1.37
1	ch	32	PHE	C-N	6.36	1.40	1.33
1	cA	185	MET	N-CA	-6.36	1.38	1.46
1	cK	113	GLU	C-O	6.36	1.31	1.24
1	dw	161	PHE	CA-C	6.36	1.61	1.52
1	dE	189	LEU	CA-C	-6.36	1.44	1.52
1	dJ	128	GLU	C-N	6.36	1.41	1.33
1	1o	90	PRO	CA-C	-6.36	1.43	1.52
1	1o	121	ASN	CA-CB	6.36	1.66	1.54
1	em	44	SER	C-N	6.36	1.42	1.33
1	eI	213	GLU	CA-CB	6.36	1.63	1.53
1	fc	102	SER	N-CA	-6.36	1.38	1.46
1	fo	133	TRP	CA-CB	6.36	1.63	1.53
1	w	18	ARG	CA-CB	6.36	1.63	1.53
1	C	53	ASN	CA-C	6.36	1.61	1.52
1	gd	50	GLN	CA-C	6.36	1.60	1.52
1	gh	79	GLU	CA-CB	6.36	1.63	1.53
1	hV	45	GLU	CA-C	-6.36	1.44	1.52
1	ih	127	GLY	N-CA	6.36	1.53	1.45
1	iy	166	ASP	C-N	6.36	1.42	1.34
1	2o	84	HIS	CA-C	6.36	1.60	1.52
1	2v	202	LEU	CA-CB	6.36	1.63	1.53
1	3r	191	VAL	N-CA	-6.36	1.39	1.46
1	4o	67	GLN	N-CA	-6.36	1.38	1.46
1	4M	144	MET	C-O	-6.36	1.16	1.24
1	5a	154	ARG	CA-C	-6.36	1.44	1.52
1	6j	36	VAL	CA-C	-6.36	1.44	1.52
1	6j	55	MET	N-CA	6.36	1.54	1.46
1	6m	51	ASP	N-CA	-6.36	1.38	1.46
1	70	92	GLU	C-N	6.36	1.41	1.33
1	7e	16	SER	CA-C	6.36	1.60	1.53
1	7t	155	GLN	C-N	6.36	1.43	1.33
1	95	32	PHE	C-N	6.36	1.40	1.33
1	98	134	ILE	CA-C	6.36	1.61	1.52
1	9I	152	ASP	CA-C	6.36	1.61	1.52
1	1h	162	ARG	CA-CB	-6.36	1.42	1.53
1	dF	9	GLN	CA-C	6.36	1.61	1.53
1	ew	111	LEU	N-CA	6.36	1.54	1.46
1	f5	128	GLU	N-CA	6.36	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	p	72	THR	C-N	6.36	1.41	1.33
1	A	87	HIS	ND1-CE1	6.36	1.39	1.32
1	E	39	MET	C-N	6.36	1.42	1.33
1	gn	201	ILE	CA-CB	6.36	1.62	1.54
1	gD	33	SER	N-CA	6.36	1.52	1.46
1	hk	69	LEU	CA-C	-6.36	1.44	1.52
1	hm	113	GLU	C-N	-6.36	1.25	1.34
1	hA	58	THR	N-CA	6.36	1.54	1.46
1	hG	123	PRO	CA-C	-6.36	1.46	1.52
1	iG	188	THR	N-CA	6.36	1.52	1.46
1	1R	217	ALA	CA-CB	6.36	1.64	1.53
1	1T	229	ARG	C-N	6.36	1.40	1.33
1	j7	152	ASP	CA-CB	6.36	1.63	1.53
1	jc	222	GLY	CA-C	6.36	1.60	1.51
1	ka	74	ASN	CA-C	6.36	1.61	1.52
1	kE	204	ALA	CA-C	6.36	1.61	1.52
1	l0	100	ARG	CD-NE	6.36	1.55	1.46
1	2S	56	LEU	N-CA	6.36	1.54	1.46
1	3k	74	ASN	CA-CB	6.36	1.63	1.53
1	3v	186	THR	C-N	6.36	1.42	1.33
1	4j	104	ILE	C-N	6.36	1.43	1.33
1	5b	124	ILE	CA-C	-6.36	1.47	1.53
1	6c	180	GLU	C-O	-6.36	1.16	1.24
1	6f	80	TRP	C-N	6.36	1.42	1.33
1	6w	224	PRO	CA-CB	-6.36	1.44	1.53
1	77	153	ILE	N-CA	6.36	1.54	1.46
1	8p	65	ALA	CA-CB	6.36	1.63	1.53
1	9w	110	THR	C-N	6.36	1.42	1.33
1	9S	175	GLU	N-CA	6.36	1.53	1.46
1	cg	87	HIS	CE1-NE2	6.36	1.39	1.32
1	dM	229	ARG	CA-CB	6.36	1.61	1.52
1	e5	33	SER	CA-CB	6.36	1.61	1.53
1	e8	209	ALA	CA-CB	6.36	1.64	1.53
1	eR	159	GLU	N-CA	6.36	1.54	1.45
1	fa	61	GLY	C-N	6.36	1.42	1.33
1	fW	37	ILE	C-O	-6.36	1.19	1.24
1	f	154	ARG	CD-NE	6.36	1.55	1.46
1	J	31	ALA	CA-C	6.36	1.61	1.52
1	V	193	ASN	C-N	6.36	1.42	1.33
1	1E	57	ASN	CA-C	6.36	1.61	1.52
1	hN	25	LYS	N-CA	-6.36	1.38	1.46
1	in	146	SER	C-N	-6.36	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k1	34	PRO	C-N	6.36	1.43	1.33
1	kQ	33	SER	C-N	6.36	1.39	1.33
1	kR	189	LEU	N-CA	6.36	1.53	1.46
1	ll	190	LEU	CA-CB	6.36	1.63	1.53
1	2G	92	GLU	CA-C	6.36	1.59	1.53
1	2X	103	ASP	CA-C	-6.36	1.44	1.52
1	4c	61	GLY	N-CA	6.36	1.51	1.45
1	4C	60	GLY	CA-C	-6.36	1.43	1.51
1	4G	138	LEU	CA-C	-6.36	1.44	1.52
1	4P	88	ALA	CA-C	6.36	1.61	1.52
1	69	7	GLN	CA-C	-6.36	1.44	1.52
1	6g	35	GLU	N-CA	6.36	1.54	1.46
1	6P	11	VAL	CA-C	6.36	1.60	1.52
1	6P	30	LYS	CA-CB	6.36	1.64	1.53
1	75	71	GLU	N-CA	-6.36	1.38	1.46
1	8x	95	GLN	N-CA	-6.36	1.38	1.46
1	8O	176	GLN	CA-C	6.36	1.60	1.52
1	93	31	ALA	CA-C	6.36	1.61	1.52
1	9D	210	THR	CA-C	-6.36	1.44	1.52
1	aw	203	LYS	N-CA	6.36	1.53	1.46
1	cL	79	GLU	C-N	6.36	1.42	1.33
1	cY	109	SER	N-CA	6.36	1.53	1.46
1	d3	72	THR	CA-C	6.36	1.60	1.52
1	dj	167	ARG	CD-NE	6.36	1.55	1.46
1	dX	216	THR	CA-CB	6.36	1.63	1.53
1	el	37	ILE	CA-C	6.36	1.59	1.52
1	eD	46	GLY	C-N	6.36	1.41	1.33
1	eH	125	PRO	CA-CB	6.36	1.58	1.53
1	eH	195	ASN	N-CA	6.36	1.54	1.45
1	eI	138	LEU	CA-C	6.36	1.61	1.52
1	eR	40	PHE	CA-CB	6.36	1.63	1.53
1	eT	172	LEU	CA-C	-6.36	1.44	1.52
1	f2	207	PRO	C-N	6.36	1.41	1.33
1	fe	140	LYS	N-CA	-6.36	1.38	1.46
1	ff	165	VAL	N-CA	-6.36	1.39	1.46
1	g7	213	GLU	C-N	6.36	1.42	1.33
1	A	111	LEU	C-N	6.36	1.41	1.33
1	R	65	ALA	N-CA	-6.36	1.38	1.46
1	hc	5	ASN	N-CA	-6.35	1.38	1.46
1	hZ	155	GLN	CA-C	-6.35	1.45	1.52
1	ka	12	HIS	CE1-NE2	6.35	1.39	1.32
1	kH	185	MET	CA-CB	6.35	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kY	15	ILE	CA-C	6.35	1.59	1.52
1	2E	12	HIS	CB-CG	6.35	1.59	1.50
1	2P	197	ASP	C-O	-6.35	1.16	1.24
1	34	144	MET	CA-C	6.35	1.60	1.52
1	3m	22	ALA	C-N	6.35	1.42	1.33
1	3r	91	ILE	N-CA	6.35	1.54	1.46
1	6A	77	ALA	CA-C	-6.35	1.44	1.52
1	85	42	ALA	N-CA	-6.35	1.38	1.46
1	b8	12	HIS	ND1-CE1	6.35	1.39	1.32
1	bi	72	THR	N-CA	6.35	1.53	1.46
1	bU	74	ASN	CA-CB	6.35	1.63	1.53
1	gr	46	GLY	C-O	-6.35	1.19	1.24
1	1E	146	SER	CA-C	6.35	1.60	1.53
1	gF	109	SER	CA-C	-6.35	1.45	1.52
1	1R	160	PRO	CA-CB	6.35	1.62	1.53
1	jQ	60	GLY	C-N	6.35	1.43	1.33
1	k8	173	ARG	CD-NE	6.35	1.55	1.46
1	lv	145	TYR	CA-CB	6.35	1.63	1.53
1	lQ	226	HIS	CB-CG	6.35	1.59	1.50
1	2j	87	HIS	ND1-CE1	6.35	1.39	1.32
1	2X	226	HIS	CA-C	6.35	1.60	1.53
1	30	120	HIS	CB-CG	6.35	1.59	1.50
1	46	25	LYS	N-CA	6.35	1.53	1.46
1	46	94	GLY	N-CA	6.35	1.54	1.45
1	5n	120	HIS	CB-CG	6.35	1.59	1.50
1	5p	57	ASN	CA-C	-6.35	1.43	1.52
1	5Y	100	ARG	C-N	-6.35	1.25	1.33
1	5Z	7	GLN	CA-CB	6.35	1.62	1.53
1	61	10	MET	CA-CB	6.35	1.64	1.53
1	6t	117	TRP	CA-C	6.35	1.61	1.52
1	7N	42	ALA	CA-CB	6.35	1.63	1.53
1	7U	36	VAL	C-N	6.35	1.40	1.33
1	8w	225	GLY	CA-C	-6.35	1.43	1.51
1	8U	146	SER	CA-C	-6.35	1.44	1.52
1	95	171	THR	C-N	6.35	1.42	1.33
1	98	111	LEU	CA-C	6.35	1.61	1.52
1	9p	224	PRO	CA-C	6.35	1.60	1.52
1	9F	161	PHE	CA-C	6.35	1.61	1.52
1	9P	18	ARG	CD-NE	6.35	1.55	1.46
1	9Z	184	TRP	CA-C	6.35	1.60	1.52
1	12	14	ALA	C-N	6.35	1.41	1.33
1	17	230	VAL	CA-C	-6.35	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bp	64	ALA	C-O	-6.35	1.16	1.24
1	bq	37	ILE	CA-CB	-6.35	1.50	1.54
1	bJ	124	ILE	CA-C	6.35	1.58	1.52
1	c1	160	PRO	N-CA	-6.35	1.39	1.47
1	c6	12	HIS	ND1-CE1	6.35	1.39	1.32
1	dn	187	GLU	CA-CB	6.35	1.63	1.53
1	e2	18	ARG	CD-NE	6.35	1.55	1.46
1	e5	212	GLU	CA-C	-6.35	1.44	1.52
1	1p	26	VAL	CA-CB	6.35	1.61	1.54
1	ez	203	LYS	CA-C	6.35	1.60	1.52
1	eA	87	HIS	CE1-NE2	6.35	1.39	1.32
1	eY	115	ILE	C-N	6.35	1.42	1.33
1	f0	16	SER	C-N	-6.35	1.26	1.34
1	1v	62	HIS	CE1-NE2	6.35	1.39	1.32
1	fL	180	GLU	C-N	6.35	1.41	1.33
1	fU	108	THR	CA-CB	-6.35	1.43	1.53
1	fV	181	VAL	CA-C	6.35	1.61	1.52
1	i	155	GLN	CA-C	6.35	1.60	1.52
1	gM	206	GLY	CA-C	6.35	1.60	1.51
1	hS	79	GLU	C-O	-6.35	1.16	1.24
1	i4	167	ARG	C-O	-6.35	1.16	1.24
1	iN	143	ARG	CZ-NH2	-6.35	1.25	1.33
1	jb	159	GLU	C-N	6.35	1.41	1.33
1	js	146	SER	CA-C	6.35	1.60	1.52
1	l3	159	GLU	CA-C	6.35	1.59	1.52
1	2Y	138	LEU	N-CA	6.35	1.54	1.46
1	3N	12	HIS	CA-CB	6.35	1.62	1.53
1	4n	139	ASN	N-CA	6.35	1.53	1.46
1	5n	37	ILE	CA-C	6.35	1.58	1.52
1	9j	125	PRO	CA-C	-6.35	1.43	1.52
1	10	207	PRO	CA-CB	-6.35	1.45	1.53
1	aj	72	THR	C-N	6.35	1.41	1.33
1	dq	39	MET	CA-CB	6.35	1.63	1.53
1	dG	221	VAL	CA-C	-6.35	1.45	1.52
1	l	13	GLN	N-CA	-6.35	1.38	1.46
1	gb	82	ARG	CZ-NH1	-6.35	1.23	1.32
1	h5	71	GLU	CA-C	6.35	1.60	1.52
1	hm	19	THR	CA-C	-6.35	1.44	1.52
1	hK	86	VAL	CA-C	-6.35	1.44	1.52
1	io	84	HIS	ND1-CE1	6.35	1.38	1.32
1	iq	7	GLN	CA-CB	6.35	1.63	1.53
1	iE	1	PRO	N-CA	6.35	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jf	211	LEU	CA-C	6.35	1.61	1.52
1	jI	44	SER	CA-C	-6.35	1.45	1.52
1	ka	84	HIS	CA-CB	6.35	1.61	1.53
1	kj	39	MET	N-CA	-6.35	1.38	1.46
1	kr	123	PRO	C-N	6.35	1.38	1.33
1	kz	226	HIS	ND1-CE1	6.35	1.38	1.32
1	kS	33	SER	CA-CB	6.35	1.61	1.53
1	2Y	10	MET	CA-CB	6.35	1.62	1.53
1	36	7	GLN	C-N	6.35	1.41	1.33
1	3l	82	ARG	NE-CZ	-6.35	1.26	1.33
1	4j	87	HIS	CG-CD2	6.35	1.42	1.35
1	4O	136	LEU	C-N	6.35	1.41	1.33
1	5f	72	THR	C-N	6.35	1.41	1.33
1	5g	75	GLU	CA-CB	6.35	1.63	1.53
1	6R	7	GLN	CA-CB	6.35	1.64	1.53
1	6R	26	VAL	C-N	6.35	1.41	1.33
1	6S	200	THR	C-N	6.35	1.41	1.33
1	6W	161	PHE	CA-CB	6.35	1.63	1.53
1	73	41	SER	N-CA	6.35	1.53	1.46
1	77	65	ALA	CA-CB	6.35	1.63	1.53
1	79	128	GLU	C-N	6.35	1.41	1.33
1	7p	12	HIS	CG-ND1	6.35	1.45	1.38
1	8b	111	LEU	CA-CB	6.35	1.63	1.53
1	8u	12	HIS	CG-CD2	6.35	1.42	1.35
1	93	133	TRP	CA-CB	6.35	1.64	1.53
1	9j	11	VAL	CA-C	6.35	1.60	1.52
1	ax	53	ASN	CA-CB	6.35	1.63	1.53
1	14	221	VAL	N-CA	-6.35	1.39	1.46
1	bS	87	HIS	ND1-CE1	6.35	1.38	1.32
1	bY	96	MET	CA-CB	6.35	1.62	1.53
1	cg	24	VAL	CA-C	6.35	1.60	1.52
1	cm	177	ALA	CA-C	6.35	1.61	1.52
1	cx	177	ALA	C-N	6.35	1.41	1.33
1	cK	18	ARG	CD-NE	6.35	1.55	1.46
1	cX	18	ARG	C-N	6.35	1.42	1.34
1	dF	80	TRP	C-N	6.35	1.42	1.33
1	dW	167	ARG	CD-NE	6.35	1.55	1.46
1	es	59	VAL	C-N	6.35	1.42	1.33
1	ev	22	ALA	CA-C	6.35	1.61	1.52
1	ey	174	ALA	C-O	-6.35	1.16	1.23
1	eC	54	THR	N-CA	6.35	1.53	1.46
1	fp	11	VAL	C-N	6.35	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fJ	219	GLN	CA-C	6.35	1.61	1.52
1	fQ	173	ARG	CA-CB	6.35	1.63	1.53
1	q	221	VAL	CA-C	-6.35	1.44	1.52
1	v	74	ASN	CA-CB	6.35	1.63	1.53
1	3	116	GLY	CA-C	-6.35	1.44	1.51
1	S	2	ILE	N-CA	-6.35	1.39	1.46
1	gp	221	VAL	CA-C	-6.35	1.44	1.52
1	gw	80	TRP	NE1-CE2	-6.35	1.30	1.37
1	gU	83	LEU	CA-CB	6.35	1.63	1.53
1	h3	228	ALA	C-N	6.35	1.41	1.33
1	hv	147	PRO	CA-C	-6.35	1.43	1.52
1	hL	36	VAL	C-N	6.35	1.40	1.33
1	iM	32	PHE	CA-CB	6.35	1.61	1.53
1	j8	151	LEU	CA-CB	6.35	1.63	1.53
1	jn	40	PHE	CA-C	-6.35	1.44	1.52
1	jx	144	MET	N-CA	-6.35	1.38	1.46
1	jJ	121	ASN	CA-CB	6.35	1.63	1.53
1	kf	185	MET	CA-CB	6.35	1.63	1.53
1	kr	65	ALA	CA-C	6.35	1.60	1.52
1	lu	210	THR	CA-C	-6.35	1.44	1.53
1	lD	173	ARG	CD-NE	6.35	1.55	1.46
1	33	69	LEU	C-N	6.35	1.42	1.33
1	3t	178	SER	CA-C	-6.35	1.44	1.53
1	3z	148	THR	N-CA	6.35	1.54	1.45
1	3G	2	ILE	CA-C	-6.35	1.44	1.52
1	4e	84	HIS	CA-CB	6.35	1.60	1.53
1	4f	166	ASP	CA-CB	6.35	1.63	1.53
1	5y	20	LEU	CA-C	-6.35	1.44	1.52
1	65	14	ALA	N-CA	6.35	1.53	1.45
1	6H	9	GLN	C-N	-6.35	1.24	1.33
1	7x	154	ARG	CA-CB	6.35	1.64	1.53
1	8w	132	ARG	CD-NE	6.35	1.55	1.46
1	8A	17	PRO	C-N	6.35	1.41	1.33
1	9N	76	GLU	C-N	6.35	1.42	1.33
1	9P	84	HIS	ND1-CE1	6.35	1.38	1.32
1	aq	185	MET	C-N	6.35	1.41	1.33
1	aX	168	PHE	CA-C	-6.35	1.44	1.52
1	bu	214	MET	N-CA	-6.35	1.38	1.46
1	c9	107	THR	CA-CB	6.35	1.63	1.53
1	cd	163	ASP	CA-CB	6.35	1.63	1.53
1	ci	62	HIS	ND1-CE1	-6.35	1.26	1.32
1	ci	63	GLN	CA-C	-6.35	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ck	72	THR	C-N	6.35	1.41	1.33
1	cp	153	ILE	CA-CB	6.35	1.61	1.54
1	1k	227	LYS	CA-CB	6.35	1.61	1.53
1	ds	191	VAL	C-O	-6.35	1.18	1.24
1	dH	156	GLY	C-N	-6.35	1.25	1.34
1	eL	184	TRP	N-CA	6.35	1.54	1.46
1	fO	100	ARG	CD-NE	6.35	1.55	1.46
1	fZ	226	HIS	CD2-NE2	6.35	1.44	1.37
1	a	82	ARG	N-CA	-6.35	1.38	1.46
1	y	16	SER	CA-C	6.35	1.61	1.53
1	Q	96	MET	CA-CB	6.35	1.63	1.53
1	h8	12	HIS	ND1-CE1	6.35	1.38	1.32
1	hO	152	ASP	CA-C	6.35	1.61	1.52
1	in	15	ILE	C-O	-6.35	1.17	1.24
1	1P	210	THR	C-N	6.35	1.42	1.33
1	ir	11	VAL	CA-CB	-6.35	1.46	1.54
1	jf	48	THR	CA-C	6.35	1.60	1.52
1	jz	5	ASN	C-N	6.35	1.42	1.33
1	jK	161	PHE	N-CA	-6.35	1.38	1.46
1	2a	142	VAL	CA-CB	6.35	1.62	1.54
1	lN	143	ARG	CD-NE	6.35	1.55	1.46
1	2x	164	TYR	CA-CB	6.35	1.63	1.53
1	3e	153	ILE	N-CA	-6.35	1.39	1.46
1	4h	3	VAL	CA-C	6.35	1.60	1.52
1	4Z	16	SER	C-N	6.35	1.42	1.34
1	6m	5	ASN	CA-C	-6.35	1.45	1.52
1	6J	23	TRP	CA-CB	6.35	1.63	1.53
1	8F	30	LYS	C-O	6.35	1.31	1.23
1	8T	12	HIS	CA-C	-6.35	1.45	1.52
1	9k	217	ALA	N-CA	6.35	1.54	1.45
1	ap	192	GLN	CA-C	6.35	1.61	1.52
1	ay	117	TRP	CA-CB	6.35	1.63	1.53
1	b5	111	LEU	CA-CB	6.35	1.63	1.53
1	bE	129	ILE	CA-C	-6.35	1.45	1.52
1	bY	47	ALA	CA-C	-6.35	1.44	1.52
1	dn	98	GLU	C-N	6.35	1.41	1.33
1	dN	119	THR	CB-OG1	-6.35	1.33	1.43
1	ey	15	ILE	CA-C	6.35	1.59	1.52
1	eF	124	ILE	N-CA	-6.35	1.41	1.46
1	E	185	MET	CA-C	-6.35	1.44	1.52
1	I	79	GLU	C-N	6.35	1.42	1.33
1	Q	226	HIS	CG-ND1	-6.35	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hT	91	ILE	N-CA	-6.34	1.38	1.46
1	ig	132	ARG	CD-NE	6.34	1.55	1.46
1	it	148	THR	CA-CB	-6.34	1.45	1.53
1	iE	87	HIS	CB-CG	6.34	1.59	1.50
1	iK	18	ARG	CD-NE	6.34	1.55	1.46
1	jn	132	ARG	C-N	6.34	1.43	1.33
1	kl	173	ARG	CZ-NH1	-6.34	1.23	1.32
1	km	130	TYR	N-CA	-6.34	1.38	1.46
1	kt	32	PHE	CA-CB	6.34	1.62	1.53
1	kN	61	GLY	C-O	-6.34	1.17	1.23
1	lA	146	SER	N-CA	6.34	1.53	1.45
1	lI	40	PHE	C-N	6.34	1.42	1.33
1	2e	135	ILE	CA-C	-6.34	1.44	1.52
1	2K	22	ALA	C-N	6.34	1.42	1.33
1	5r	54	THR	N-CA	6.34	1.53	1.46
1	5L	12	HIS	ND1-CE1	6.34	1.38	1.32
1	5R	20	LEU	CA-CB	6.34	1.63	1.53
1	6a	73	ILE	CA-CB	-6.34	1.47	1.54
1	6d	204	ALA	CA-C	-6.34	1.44	1.52
1	75	162	ARG	CA-CB	6.34	1.63	1.53
1	7L	130	TYR	CA-C	-6.34	1.44	1.52
1	8U	172	LEU	N-CA	-6.34	1.38	1.46
1	8Z	111	LEU	C-N	6.34	1.42	1.34
1	99	200	THR	N-CA	-6.34	1.38	1.46
1	9p	124	ILE	CA-C	6.34	1.58	1.53
1	9R	23	TRP	CA-CB	6.34	1.63	1.53
1	9U	46	GLY	C-N	6.34	1.41	1.33
1	a9	62	HIS	CE1-NE2	6.34	1.38	1.32
1	aU	132	ARG	CA-CB	6.34	1.63	1.53
1	b7	49	PRO	C-N	6.34	1.42	1.33
1	19	170	LYS	C-O	-6.34	1.16	1.24
1	c2	216	THR	N-CA	6.34	1.54	1.46
1	cy	144	MET	CA-C	6.34	1.61	1.52
1	cz	92	GLU	C-N	6.34	1.41	1.33
1	cK	63	GLN	CA-C	6.34	1.61	1.52
1	de	29	GLU	CA-CB	-6.34	1.43	1.53
1	dA	11	VAL	N-CA	-6.34	1.38	1.46
1	dM	120	HIS	C-N	6.34	1.39	1.33
1	dN	12	HIS	CB-CG	6.34	1.59	1.50
1	ej	104	ILE	CA-CB	6.34	1.62	1.54
1	en	171	THR	CA-C	-6.34	1.44	1.52
1	fI	53	ASN	C-N	6.34	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	179	GLN	N-CA	6.34	1.53	1.46
1	hK	167	ARG	C-O	6.34	1.31	1.24
1	iK	49	PRO	C-N	6.34	1.42	1.33
1	j1	201	ILE	N-CA	6.34	1.54	1.46
1	kL	130	TYR	CA-CB	6.34	1.63	1.53
1	2W	100	ARG	CA-CB	6.34	1.62	1.53
1	4x	117	TRP	C-N	6.34	1.42	1.33
1	4B	164	TYR	CA-CB	6.34	1.63	1.53
1	5G	114	GLN	C-N	6.34	1.42	1.33
1	6c	73	ILE	N-CA	-6.34	1.39	1.46
1	6z	100	ARG	CZ-NH1	-6.34	1.23	1.32
1	7Z	146	SER	CA-CB	6.34	1.63	1.53
1	85	151	LEU	N-CA	-6.34	1.38	1.46
1	at	229	ARG	CD-NE	6.34	1.55	1.46
1	aT	64	ALA	C-N	6.34	1.42	1.33
1	cH	194	ALA	C-N	6.34	1.42	1.33
1	cK	195	ASN	CA-C	6.34	1.60	1.52
1	d1	226	HIS	CE1-NE2	-6.34	1.26	1.32
1	1j	82	ARG	CA-C	6.34	1.60	1.52
1	fk	101	GLY	C-N	6.34	1.42	1.34
1	O	16	SER	C-N	-6.34	1.26	1.34
1	gM	80	TRP	CA-CB	6.34	1.63	1.53
1	gS	135	ILE	N-CA	6.34	1.53	1.46
1	hQ	181	VAL	N-CA	6.34	1.54	1.46
1	ik	11	VAL	N-CA	6.34	1.53	1.46
1	im	84	HIS	CA-C	-6.34	1.44	1.52
1	jJ	87	HIS	ND1-CE1	6.34	1.38	1.32
1	jQ	120	HIS	CG-ND1	6.34	1.45	1.38
1	jU	143	ARG	CD-NE	6.34	1.55	1.46
1	kq	23	TRP	CZ2-CH2	6.34	1.49	1.37
1	kK	165	VAL	C-N	6.34	1.42	1.33
1	lk	35	GLU	N-CA	-6.34	1.37	1.46
1	lJ	182	LYS	CA-CB	6.34	1.63	1.53
1	lQ	185	MET	N-CA	6.34	1.53	1.46
1	2w	33	SER	C-O	-6.34	1.18	1.24
1	2y	174	ALA	CA-CB	6.34	1.63	1.53
1	3n	135	ILE	N-CA	-6.34	1.39	1.46
1	3r	134	ILE	N-CA	-6.34	1.39	1.46
1	3s	91	ILE	CA-C	6.34	1.60	1.52
1	4c	37	ILE	CA-C	6.34	1.58	1.52
1	4F	127	GLY	CA-C	-6.34	1.43	1.51
1	4X	99	PRO	N-CA	-6.34	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Y	39	MET	C-N	6.34	1.42	1.33
1	6S	174	ALA	CA-C	6.34	1.61	1.52
1	88	62	HIS	CE1-NE2	6.34	1.38	1.32
1	8z	56	LEU	CA-C	6.34	1.60	1.52
1	8L	146	SER	CA-C	6.34	1.61	1.52
1	8Q	104	ILE	C-N	6.34	1.42	1.33
1	9z	188	THR	CA-C	-6.34	1.48	1.52
1	9Q	153	ILE	CA-C	-6.34	1.45	1.53
1	aa	181	VAL	N-CA	-6.34	1.39	1.46
1	ab	159	GLU	CA-CB	6.34	1.63	1.54
1	ae	83	LEU	CA-C	6.34	1.60	1.52
1	bm	145	TYR	CZ-OH	6.34	1.51	1.38
1	bu	204	ALA	CA-C	6.34	1.61	1.52
1	cb	80	TRP	C-N	6.34	1.42	1.33
1	cw	167	ARG	N-CA	6.34	1.54	1.46
1	de	192	GLN	C-N	6.34	1.41	1.33
1	1k	87	HIS	ND1-CE1	6.34	1.38	1.32
1	1n	51	ASP	C-N	6.34	1.42	1.33
1	dX	33	SER	CA-CB	6.34	1.63	1.53
1	1p	168	PHE	C-N	6.34	1.42	1.33
1	fn	110	THR	CA-C	-6.34	1.44	1.53
1	1x	185	MET	N-CA	6.34	1.54	1.46
1	fO	130	TYR	CA-CB	6.34	1.63	1.53
1	gy	127	GLY	CA-C	-6.34	1.45	1.52
1	ig	82	ARG	CD-NE	6.34	1.55	1.46
1	ik	225	GLY	C-N	6.34	1.42	1.33
1	im	39	MET	CA-CB	6.34	1.63	1.53
1	ip	181	VAL	CA-C	-6.34	1.44	1.52
1	iL	146	SER	CA-C	6.34	1.60	1.52
1	j8	117	TRP	NE1-CE2	-6.34	1.30	1.37
1	k7	37	ILE	CA-CB	-6.34	1.50	1.54
1	ka	231	LEU	CA-C	6.34	1.66	1.52
1	kQ	80	TRP	N-CA	6.34	1.54	1.46
1	l3	110	THR	C-N	6.34	1.42	1.33
1	l3	126	VAL	C-O	6.34	1.31	1.24
1	lE	120	HIS	ND1-CE1	6.34	1.38	1.32
1	2e	201	ILE	CA-CB	6.34	1.61	1.54
1	2q	71	GLU	N-CA	-6.34	1.38	1.46
1	2v	156	GLY	CA-C	6.34	1.59	1.51
1	2O	55	MET	C-N	6.34	1.43	1.33
1	2S	162	ARG	CA-CB	6.34	1.63	1.53
1	3b	188	THR	CA-C	6.34	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3v	128	GLU	N-CA	-6.34	1.38	1.46
1	3O	140	LYS	N-CA	-6.34	1.38	1.46
1	4n	226	HIS	CA-C	6.34	1.60	1.52
1	4t	76	GLU	CA-C	6.34	1.61	1.52
1	5b	62	HIS	CA-CB	6.34	1.63	1.53
1	5c	226	HIS	ND1-CE1	6.34	1.38	1.32
1	5d	150	ILE	C-N	6.34	1.42	1.33
1	5h	157	PRO	C-N	6.34	1.42	1.33
1	64	123	PRO	CA-C	-6.34	1.43	1.52
1	68	15	ILE	N-CA	-6.34	1.37	1.46
1	6j	127	GLY	CA-C	-6.34	1.44	1.52
1	6F	159	GLU	CA-CB	6.34	1.62	1.53
1	6S	30	LYS	N-CA	6.34	1.53	1.46
1	7U	184	TRP	NE1-CE2	6.34	1.44	1.37
1	8l	33	SER	CA-C	-6.34	1.46	1.52
1	8V	230	VAL	CA-CB	-6.34	1.45	1.54
1	9M	46	GLY	CA-C	-6.34	1.43	1.51
1	9S	145	TYR	C-N	6.34	1.39	1.33
1	a1	51	ASP	CA-CB	6.34	1.63	1.53
1	ab	226	HIS	CB-CG	-6.34	1.41	1.50
1	aP	136	LEU	CA-C	-6.34	1.44	1.52
1	aW	37	ILE	CA-CB	-6.34	1.50	1.54
1	bj	168	PHE	CA-C	-6.34	1.44	1.52
1	bz	207	PRO	N-CA	-6.34	1.39	1.47
1	bL	219	GLN	N-CA	6.34	1.53	1.45
1	cB	134	ILE	C-N	6.34	1.41	1.33
1	cD	52	LEU	N-CA	-6.34	1.38	1.46
1	cK	84	HIS	ND1-CE1	6.34	1.38	1.32
1	dr	62	HIS	CE1-NE2	6.34	1.38	1.32
1	ea	51	ASP	C-N	6.34	1.41	1.33
1	ed	191	VAL	CA-CB	6.34	1.63	1.54
1	ez	84	HIS	ND1-CE1	6.34	1.38	1.32
1	eU	39	MET	CA-C	-6.34	1.44	1.52
1	1z	113	GLU	CA-CB	6.34	1.63	1.53
1	O	165	VAL	CA-C	-6.34	1.44	1.52
1	hd	91	ILE	CA-CB	-6.34	1.46	1.54
1	ig	113	GLU	C-N	6.34	1.42	1.33
1	1X	20	LEU	N-CA	-6.34	1.38	1.46
1	3C	140	LYS	C-N	6.34	1.41	1.33
1	3P	212	GLU	CA-CB	6.34	1.63	1.53
1	4y	54	THR	CA-C	-6.34	1.44	1.52
1	5e	213	GLU	C-O	-6.34	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6R	223	GLY	N-CA	6.34	1.51	1.43
1	7m	217	ALA	CA-C	6.34	1.60	1.52
1	8k	134	ILE	N-CA	-6.34	1.39	1.46
1	8J	26	VAL	CA-CB	-6.34	1.46	1.54
1	dv	142	VAL	CA-CB	6.34	1.63	1.54
1	eX	165	VAL	CA-C	6.34	1.60	1.52
1	f7	184	TRP	N-CA	6.34	1.54	1.46
1	fP	50	GLN	N-CA	6.34	1.54	1.46
1	o	6	LEU	C-N	6.34	1.41	1.33
1	gd	113	GLU	CA-C	6.34	1.60	1.52
1	hR	199	LYS	CA-CB	6.34	1.63	1.53
1	iu	145	TYR	C-N	6.34	1.43	1.33
1	iJ	212	GLU	CA-C	6.34	1.61	1.52
1	iO	12	HIS	CA-C	-6.34	1.44	1.52
1	jf	186	THR	N-CA	6.34	1.53	1.46
1	jA	128	GLU	N-CA	-6.34	1.38	1.46
1	jK	57	ASN	CA-C	6.34	1.61	1.52
1	kb	220	GLY	C-N	6.34	1.42	1.33
1	24	158	LYS	N-CA	-6.34	1.39	1.46
1	28	154	ARG	CA-C	6.34	1.60	1.52
1	2N	167	ARG	CD-NE	6.34	1.55	1.46
1	2U	220	GLY	CA-C	6.34	1.60	1.51
1	3l	34	PRO	N-CA	-6.34	1.39	1.47
1	3B	202	LEU	CA-CB	6.34	1.63	1.53
1	3I	18	ARG	CD-NE	6.34	1.55	1.46
1	5K	105	ALA	CA-C	6.34	1.62	1.52
1	6h	138	LEU	CA-CB	6.34	1.63	1.53
1	75	32	PHE	CA-CB	6.34	1.63	1.53
1	7p	103	ASP	C-O	-6.34	1.16	1.24
1	7U	207	PRO	N-CA	-6.34	1.39	1.47
1	8e	82	ARG	N-CA	-6.34	1.38	1.46
1	8l	116	GLY	N-CA	6.34	1.53	1.45
1	8m	33	SER	CA-C	-6.34	1.44	1.52
1	8q	188	THR	N-CA	-6.34	1.38	1.46
1	8v	21	ASN	N-CA	6.34	1.54	1.46
1	9I	141	ILE	CA-CB	6.34	1.61	1.54
1	9R	39	MET	CA-C	-6.34	1.43	1.52
1	12	211	LEU	C-N	6.34	1.42	1.33
1	aR	25	LYS	N-CA	-6.34	1.38	1.46
1	15	12	HIS	ND1-CE1	6.34	1.38	1.32
1	bq	86	VAL	C-N	6.34	1.42	1.33
1	bx	194	ALA	N-CA	6.34	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cR	185	MET	N-CA	6.34	1.54	1.46
1	1i	123	PRO	C-N	6.34	1.40	1.33
1	1i	199	LYS	CA-C	6.34	1.61	1.52
1	dq	226	HIS	CE1-NE2	6.34	1.38	1.32
1	e2	125	PRO	CA-C	-6.34	1.47	1.53
1	e7	115	ILE	N-CA	6.34	1.54	1.46
1	ei	136	LEU	C-N	6.34	1.41	1.33
1	1v	130	TYR	CA-C	6.34	1.61	1.52
1	fV	152	ASP	C-N	6.34	1.39	1.33
1	fY	177	ALA	CA-C	6.34	1.61	1.53
1	g3	205	LEU	CA-C	6.34	1.61	1.52
1	O	141	ILE	C-O	6.34	1.31	1.24
1	hl	134	ILE	CB-CG1	6.33	1.66	1.53
1	hM	62	HIS	CB-CG	-6.33	1.41	1.50
1	jr	121	ASN	N-CA	-6.33	1.38	1.46
1	kS	189	LEU	N-CA	6.33	1.54	1.46
1	27	153	ILE	CA-CB	6.33	1.61	1.54
1	4I	167	ARG	CA-CB	6.33	1.63	1.53
1	79	147	PRO	CA-CB	-6.33	1.44	1.53
1	8Q	151	LEU	CA-CB	6.33	1.63	1.53
1	9b	15	ILE	CA-C	6.33	1.60	1.52
1	9O	173	ARG	CD-NE	6.33	1.55	1.46
1	ak	40	PHE	N-CA	6.33	1.54	1.46
1	aq	165	VAL	CA-C	6.33	1.60	1.52
1	aA	170	LYS	N-CA	6.33	1.54	1.46
1	bk	4	GLN	CA-CB	6.33	1.63	1.53
1	bN	1	PRO	N-CD	6.33	1.56	1.47
1	d2	15	ILE	CA-CB	-6.33	1.46	1.53
1	du	182	LYS	C-N	6.33	1.42	1.33
1	ea	75	GLU	CA-C	6.33	1.60	1.52
1	ei	152	ASP	N-CA	6.33	1.54	1.46
1	eV	183	ASN	CA-CB	6.33	1.63	1.53
1	fd	1	PRO	N-CA	6.33	1.56	1.47
1	fk	37	ILE	CA-C	6.33	1.57	1.52
1	fH	200	THR	CA-CB	6.33	1.63	1.53
1	fM	134	ILE	CA-C	6.33	1.60	1.52
1	g3	184	TRP	CA-C	6.33	1.61	1.52
1	gV	132	ARG	C-N	6.33	1.42	1.33
1	h5	8	GLY	C-O	-6.33	1.19	1.23
1	hd	77	ALA	C-O	-6.33	1.16	1.24
1	hg	39	MET	C-N	6.33	1.42	1.33
1	hE	195	ASN	CA-C	6.33	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i4	205	LEU	CA-C	6.33	1.61	1.52
1	kj	58	THR	N-CA	6.33	1.54	1.46
1	kt	62	HIS	CA-C	-6.33	1.44	1.53
1	2n	150	ILE	CA-C	6.33	1.60	1.52
1	2I	26	VAL	CA-C	6.33	1.60	1.52
1	36	201	ILE	N-CA	-6.33	1.38	1.46
1	4j	229	ARG	CA-CB	6.33	1.64	1.53
1	5i	166	ASP	CA-C	-6.33	1.44	1.52
1	5y	134	ILE	N-CA	-6.33	1.38	1.46
1	5U	229	ARG	N-CA	-6.33	1.37	1.45
1	6n	79	GLU	CA-C	-6.33	1.44	1.52
1	6A	92	GLU	N-CA	-6.33	1.40	1.46
1	6P	119	THR	CA-C	6.33	1.62	1.52
1	7S	214	MET	C-N	6.33	1.42	1.33
1	87	181	VAL	C-O	-6.33	1.17	1.24
1	8V	29	GLU	CA-C	-6.33	1.44	1.52
1	8Y	36	VAL	CA-C	6.33	1.61	1.52
1	9w	41	SER	CA-C	-6.33	1.44	1.52
1	aE	66	MET	CA-C	6.33	1.61	1.52
1	bh	88	ALA	CA-CB	6.33	1.65	1.53
1	cZ	6	LEU	CA-CB	6.33	1.64	1.53
1	dl	214	MET	C-N	6.33	1.43	1.33
1	dC	75	GLU	CA-C	-6.33	1.44	1.52
1	eH	56	LEU	N-CA	6.33	1.53	1.46
1	eL	154	ARG	C-N	6.33	1.42	1.33
1	fB	144	MET	CA-CB	6.33	1.63	1.53
1	fU	100	ARG	CD-NE	6.33	1.55	1.46
1	g5	185	MET	C-O	-6.33	1.16	1.24
1	z	108	THR	CA-C	6.33	1.61	1.52
1	gz	77	ALA	CA-C	6.33	1.60	1.52
1	gF	201	ILE	CA-CB	6.33	1.61	1.54
1	h5	185	MET	CA-C	6.33	1.61	1.52
1	i2	122	PRO	C-N	6.33	1.42	1.33
1	ia	66	MET	CA-C	6.33	1.60	1.52
1	iy	18	ARG	CA-CB	6.33	1.63	1.53
1	jX	226	HIS	CA-CB	6.33	1.63	1.53
1	kL	89	GLY	CA-C	6.33	1.60	1.51
1	2X	215	MET	CA-C	-6.33	1.44	1.52
1	3V	98	GLU	CA-CB	6.33	1.63	1.53
1	3Z	55	MET	C-N	6.33	1.42	1.34
1	4w	134	ILE	CA-C	-6.33	1.45	1.52
1	5v	143	ARG	C-N	6.33	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5W	215	MET	C-N	6.33	1.43	1.33
1	61	133	TRP	NE1-CE2	-6.33	1.30	1.37
1	6g	183	ASN	CA-CB	6.33	1.63	1.53
1	72	191	VAL	CA-CB	-6.33	1.47	1.54
1	7o	84	HIS	CA-CB	6.33	1.61	1.53
1	7O	66	MET	CA-CB	6.33	1.63	1.53
1	8D	72	THR	C-N	6.33	1.41	1.33
1	8M	104	ILE	CA-CB	-6.33	1.46	1.54
1	9k	19	THR	C-N	6.33	1.42	1.33
1	9q	126	VAL	N-CA	6.33	1.53	1.46
1	9r	125	PRO	C-N	6.33	1.41	1.34
1	as	177	ALA	CA-C	6.33	1.61	1.52
1	ay	59	VAL	N-CA	6.33	1.53	1.46
1	aE	67	GLN	N-CA	6.33	1.54	1.46
1	aK	190	LEU	CA-CB	6.33	1.63	1.53
1	b5	54	THR	N-CA	6.33	1.53	1.46
1	18	136	LEU	N-CA	-6.33	1.38	1.46
1	bI	229	ARG	CZ-NH2	-6.33	1.25	1.33
1	cf	72	THR	CA-CB	6.33	1.63	1.53
1	cD	195	ASN	CA-CB	6.33	1.63	1.53
1	dU	155	GLN	N-CA	-6.33	1.38	1.46
1	dW	218	CYS	N-CA	-6.33	1.37	1.46
1	e4	184	TRP	NE1-CE2	6.33	1.44	1.37
1	ed	150	ILE	CA-C	6.33	1.60	1.52
1	eD	24	VAL	N-CA	-6.33	1.39	1.46
1	eV	38	PRO	N-CD	6.33	1.56	1.47
1	f4	119	THR	CA-C	-6.33	1.44	1.52
1	fH	33	SER	C-N	6.33	1.40	1.33
1	1A	87	HIS	ND1-CE1	6.33	1.38	1.32
1	8	130	TYR	N-CA	-6.33	1.38	1.46
1	k4	96	MET	N-CA	-6.33	1.38	1.46
1	l4	116	GLY	CA-C	-6.33	1.45	1.52
1	2W	16	SER	N-CA	-6.33	1.36	1.46
1	3M	27	VAL	CA-C	6.33	1.60	1.52
1	aT	226	HIS	ND1-CE1	6.33	1.38	1.32
1	bu	67	GLN	CA-C	-6.33	1.44	1.52
1	bz	73	ILE	CA-C	6.33	1.60	1.52
1	cn	22	ALA	N-CA	-6.33	1.38	1.46
1	eb	191	VAL	C-O	-6.33	1.15	1.24
1	eD	40	PHE	CA-CB	6.33	1.63	1.53
1	f5	53	ASN	C-O	-6.33	1.16	1.24
1	1w	190	LEU	CA-CB	6.33	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	142	VAL	C-N	6.33	1.42	1.34
1	gf	28	GLU	CA-CB	6.33	1.63	1.53
1	gJ	213	GLU	CA-C	6.33	1.61	1.52
1	gR	182	LYS	N-CA	-6.33	1.38	1.46
1	1K	198	CYS	N-CA	-6.33	1.38	1.46
1	iR	74	ASN	C-N	-6.33	1.25	1.33
1	jV	56	LEU	CA-CB	6.33	1.63	1.53
1	kH	53	ASN	C-N	6.33	1.42	1.33
1	l4	175	GLU	CA-C	6.33	1.60	1.52
1	lb	58	THR	CA-C	-6.33	1.44	1.52
1	lg	173	ARG	CD-NE	6.33	1.55	1.46
1	lp	14	ALA	N-CA	6.33	1.53	1.46
1	lu	111	LEU	CA-C	6.33	1.61	1.52
1	2z	14	ALA	N-CA	-6.33	1.38	1.46
1	2B	139	ASN	CA-C	6.33	1.61	1.52
1	2W	216	THR	CA-C	6.33	1.61	1.52
1	39	226	HIS	CB-CG	6.33	1.59	1.50
1	3C	82	ARG	CA-CB	6.33	1.64	1.53
1	43	23	TRP	CD2-CE3	-6.33	1.30	1.40
1	5f	1	PRO	N-CD	6.33	1.56	1.47
1	6l	164	TYR	C-O	-6.33	1.16	1.24
1	72	89	GLY	CA-C	6.33	1.60	1.51
1	7u	142	VAL	C-N	6.33	1.42	1.34
1	7z	72	THR	C-N	6.33	1.41	1.33
1	84	96	MET	CG-SD	6.33	1.96	1.80
1	8d	208	ALA	N-CA	-6.33	1.37	1.46
1	ad	135	ILE	N-CA	6.33	1.54	1.46
1	as	146	SER	CA-C	6.33	1.60	1.52
1	aG	228	ALA	CA-CB	6.33	1.62	1.54
1	bW	215	MET	CA-C	6.33	1.61	1.52
1	c5	22	ALA	N-CA	6.33	1.54	1.46
1	ck	109	SER	N-CA	-6.33	1.37	1.45
1	cw	12	HIS	ND1-CE1	6.33	1.38	1.32
1	cU	216	THR	C-O	-6.33	1.16	1.24
1	d6	96	MET	CA-C	6.33	1.61	1.53
1	dn	167	ARG	NE-CZ	6.33	1.40	1.33
1	du	165	VAL	CA-C	-6.33	1.45	1.52
1	eg	221	VAL	C-N	6.33	1.41	1.33
1	ew	132	ARG	CA-C	6.33	1.61	1.52
1	eQ	21	ASN	CA-C	-6.33	1.44	1.52
1	1y	215	MET	CA-CB	6.33	1.64	1.53
1	p	180	GLU	N-CA	-6.33	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gH	173	ARG	CA-CB	6.33	1.63	1.53
1	iz	2	ILE	CA-CB	-6.33	1.46	1.54
1	2l	84	HIS	CA-CB	6.33	1.59	1.53
1	37	23	TRP	CD2-CE3	-6.33	1.30	1.40
1	4r	170	LYS	N-CA	6.33	1.54	1.46
1	6a	211	LEU	CA-C	6.33	1.61	1.52
1	83	16	SER	CA-C	6.33	1.60	1.53
1	9T	54	THR	C-N	6.33	1.42	1.33
1	br	117	TRP	NE1-CE2	-6.33	1.30	1.37
1	bL	190	LEU	N-CA	-6.33	1.38	1.46
1	bO	173	ARG	CD-NE	6.33	1.55	1.46
1	bS	189	LEU	C-N	6.33	1.41	1.33
1	ch	49	PRO	CA-C	-6.33	1.43	1.52
1	cF	23	TRP	CD2-CE3	-6.33	1.30	1.40
1	dR	112	GLN	CA-CB	6.33	1.63	1.53
1	dU	186	THR	CA-C	-6.33	1.44	1.52
1	gd	118	MET	CA-CB	6.33	1.64	1.53
1	gv	111	LEU	CA-CB	6.33	1.63	1.53
1	gD	50	GLN	C-O	-6.33	1.16	1.24
1	gI	92	GLU	C-N	6.33	1.41	1.33
1	gU	226	HIS	ND1-CE1	6.33	1.38	1.32
1	h4	124	ILE	CA-CB	6.33	1.60	1.53
1	hk	173	ARG	CA-C	6.33	1.61	1.52
1	ii	33	SER	CA-CB	6.33	1.63	1.54
1	iM	79	GLU	CA-C	-6.33	1.44	1.52
1	j5	107	THR	CA-C	-6.33	1.44	1.52
1	jS	114	GLN	C-N	6.33	1.41	1.33
1	k7	97	ARG	CZ-NH2	-6.33	1.25	1.33
1	kC	123	PRO	CA-CB	6.33	1.62	1.53
1	lh	184	TRP	NE1-CE2	-6.33	1.30	1.37
1	lz	83	LEU	CA-CB	6.33	1.63	1.53
1	lz	120	HIS	CB-CG	6.33	1.59	1.50
1	2z	84	HIS	N-CA	-6.33	1.40	1.46
1	4c	55	MET	C-O	-6.33	1.16	1.24
1	4s	150	ILE	CB-CG1	6.33	1.66	1.53
1	4w	62	HIS	CB-CG	6.33	1.59	1.50
1	4J	5	ASN	C-O	-6.33	1.16	1.23
1	6o	217	ALA	CA-C	6.33	1.62	1.53
1	6L	105	ALA	N-CA	-6.33	1.37	1.46
1	7k	134	ILE	CA-CB	-6.33	1.47	1.54
1	7y	202	LEU	CA-CB	6.33	1.63	1.53
1	80	221	VAL	N-CA	-6.33	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8I	188	THR	CA-C	6.33	1.58	1.52
1	93	102	SER	CA-C	6.33	1.61	1.52
1	97	155	GLN	CA-C	6.33	1.60	1.52
1	98	198	CYS	C-N	6.33	1.41	1.33
1	9e	134	ILE	CA-C	-6.33	1.45	1.52
1	9S	73	ILE	N-CA	6.33	1.54	1.46
1	a8	50	GLN	CA-C	6.33	1.60	1.52
1	az	141	ILE	C-N	6.33	1.42	1.34
1	bD	228	ALA	CA-CB	6.33	1.63	1.53
1	bM	184	TRP	CA-CB	6.33	1.63	1.53
1	1k	84	HIS	CD2-NE2	6.33	1.44	1.37
1	e1	3	VAL	N-CA	-6.33	1.38	1.46
1	e5	193	ASN	CA-C	6.33	1.61	1.52
1	eh	5	ASN	C-N	6.33	1.41	1.33
1	eM	135	ILE	CA-C	6.33	1.60	1.52
1	f4	72	THR	C-N	6.33	1.41	1.33
1	fS	166	ASP	CA-CB	6.33	1.63	1.53
1	g4	87	HIS	ND1-CE1	6.33	1.38	1.32
1	e	134	ILE	C-N	6.33	1.41	1.33
1	1	228	ALA	C-N	6.33	1.42	1.33
1	l	187	GLU	CA-C	-6.33	1.44	1.52
1	N	134	ILE	CA-C	-6.33	1.45	1.52
1	1J	3	VAL	CA-CB	-6.32	1.46	1.54
1	i0	156	GLY	C-N	-6.32	1.26	1.34
1	1N	155	GLN	CA-CB	6.32	1.63	1.53
1	iv	45	GLU	C-N	6.32	1.39	1.33
1	iW	228	ALA	CA-C	6.32	1.61	1.52
1	jB	183	ASN	C-N	6.32	1.42	1.33
1	kc	211	LEU	C-O	-6.32	1.16	1.24
1	ky	136	LEU	CA-C	-6.32	1.44	1.52
1	kI	182	LYS	C-N	6.32	1.42	1.33
1	24	202	LEU	CA-C	6.32	1.60	1.52
1	l0	36	VAL	CA-CB	-6.32	1.46	1.54
1	2B	137	GLY	C-N	6.32	1.42	1.33
1	2B	187	GLU	C-N	6.32	1.42	1.33
1	2H	124	ILE	CA-CB	-6.32	1.48	1.54
1	43	87	HIS	CB-CG	-6.32	1.41	1.50
1	4f	97	ARG	NE-CZ	-6.32	1.26	1.33
1	4Q	122	PRO	N-CD	-6.32	1.39	1.47
1	57	207	PRO	C-N	6.32	1.41	1.33
1	5r	130	TYR	CA-C	6.32	1.60	1.52
1	6g	30	LYS	CA-C	-6.32	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6K	160	PRO	CA-C	-6.32	1.44	1.52
1	6R	11	VAL	N-CA	-6.32	1.38	1.46
1	7b	153	ILE	CA-CB	6.32	1.60	1.54
1	7r	190	LEU	N-CA	-6.32	1.38	1.46
1	7D	70	LYS	CA-C	-6.32	1.44	1.52
1	7Q	99	PRO	CA-C	-6.32	1.45	1.52
1	7T	117	TRP	CA-C	6.32	1.60	1.52
1	8b	40	PHE	CA-C	-6.32	1.44	1.52
1	8r	134	ILE	CA-C	6.32	1.60	1.52
1	9b	129	ILE	C-N	6.32	1.42	1.33
1	9s	25	LYS	CA-C	6.32	1.60	1.52
1	bx	98	GLU	CA-C	-6.32	1.46	1.52
1	dl	94	GLY	CA-C	-6.32	1.42	1.51
1	dG	29	GLU	CA-CB	6.32	1.63	1.53
1	dN	29	GLU	C-N	6.32	1.42	1.33
1	ec	226	HIS	ND1-CE1	6.32	1.38	1.32
1	et	146	SER	CA-C	6.32	1.60	1.53
1	ew	103	ASP	CA-C	6.32	1.61	1.52
1	fV	26	VAL	CA-CB	-6.32	1.47	1.54
1	5	40	PHE	C-N	6.32	1.42	1.33
1	1E	153	ILE	CA-CB	-6.32	1.47	1.54
1	hF	20	LEU	CA-CB	6.32	1.63	1.53
1	hJ	139	ASN	CA-CB	6.32	1.63	1.53
1	i4	141	ILE	N-CA	-6.32	1.39	1.46
1	ig	181	VAL	CA-CB	6.32	1.61	1.54
1	k8	199	LYS	CA-C	6.32	1.60	1.52
1	kF	37	ILE	CA-CB	-6.32	1.50	1.54
1	kV	173	ARG	CA-CB	6.32	1.63	1.53
1	l5	84	HIS	CA-CB	6.32	1.62	1.53
1	lA	102	SER	CA-C	-6.32	1.44	1.52
1	lF	43	LEU	C-N	6.32	1.41	1.33
1	2x	23	TRP	NE1-CE2	-6.32	1.30	1.37
1	4G	117	TRP	CA-CB	6.32	1.63	1.53
1	6o	84	HIS	ND1-CE1	6.32	1.38	1.32
1	6p	229	ARG	N-CA	-6.32	1.37	1.45
1	6O	39	MET	CA-CB	6.32	1.63	1.53
1	7q	85	PRO	N-CA	-6.32	1.39	1.47
1	8F	100	ARG	CD-NE	6.32	1.55	1.46
1	9P	172	LEU	N-CA	-6.32	1.38	1.46
1	aB	200	THR	C-N	6.32	1.41	1.33
1	bb	177	ALA	C-N	6.32	1.41	1.33
1	bh	183	ASN	CA-C	6.32	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bE	5	ASN	N-CA	-6.32	1.37	1.45
1	c1	139	ASN	CA-CB	6.32	1.63	1.53
1	eR	226	HIS	C-N	6.32	1.42	1.33
1	f8	113	GLU	C-N	6.32	1.42	1.33
1	fI	22	ALA	CA-CB	6.32	1.63	1.53
1	g6	50	GLN	N-CA	-6.32	1.38	1.46
1	G	230	VAL	CA-C	6.32	1.58	1.52
1	gw	225	GLY	N-CA	6.32	1.54	1.45
1	1G	39	MET	N-CA	-6.32	1.38	1.46
1	1J	99	PRO	CA-CB	-6.32	1.45	1.53
1	hS	218	CYS	CA-C	6.32	1.61	1.53
1	it	40	PHE	N-CA	-6.32	1.38	1.46
1	jM	107	THR	N-CA	6.32	1.54	1.46
1	k8	217	ALA	CA-C	6.32	1.62	1.53
1	kj	192	GLN	CA-CB	6.32	1.63	1.53
1	kG	220	GLY	N-CA	-6.32	1.39	1.45
1	li	27	VAL	N-CA	6.32	1.54	1.46
1	lk	12	HIS	ND1-CE1	6.32	1.38	1.32
1	lt	202	LEU	CA-C	-6.32	1.44	1.52
1	2p	25	LYS	N-CA	-6.32	1.38	1.46
1	3c	138	LEU	CA-CB	6.32	1.63	1.53
1	3x	117	TRP	CD2-CE3	-6.32	1.30	1.40
1	3x	181	VAL	C-N	6.32	1.42	1.33
1	4x	62	HIS	CD2-NE2	6.32	1.44	1.37
1	54	125	PRO	CA-C	6.32	1.61	1.52
1	58	89	GLY	CA-C	6.32	1.60	1.51
1	5p	154	ARG	CD-NE	6.32	1.55	1.46
1	5t	6	LEU	C-O	-6.32	1.16	1.24
1	6i	124	ILE	CA-C	6.32	1.58	1.52
1	6n	223	GLY	N-CA	6.32	1.53	1.44
1	7L	87	HIS	CE1-NE2	-6.32	1.26	1.32
1	86	154	ARG	CA-CB	6.32	1.64	1.53
1	8W	2	ILE	N-CA	-6.32	1.38	1.46
1	90	4	GLN	CA-CB	6.32	1.62	1.53
1	9w	206	GLY	C-N	-6.32	1.28	1.33
1	9L	47	ALA	CA-C	6.32	1.60	1.52
1	9Q	184	TRP	C-N	6.32	1.42	1.33
1	ah	66	MET	C-O	-6.32	1.16	1.24
1	13	108	THR	N-CA	6.32	1.53	1.46
1	aO	169	TYR	CA-CB	6.32	1.63	1.53
1	bm	36	VAL	C-O	-6.32	1.16	1.24
1	bP	123	PRO	CA-C	-6.32	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dq	65	ALA	CA-CB	6.32	1.63	1.53
1	ef	185	MET	CA-C	-6.32	1.44	1.52
1	ev	52	LEU	CA-CB	6.32	1.63	1.53
1	eJ	211	LEU	CA-C	-6.32	1.44	1.52
1	eX	86	VAL	CA-CB	-6.32	1.47	1.54
1	s	35	GLU	C-N	6.32	1.41	1.33
1	t	58	THR	CA-CB	6.32	1.62	1.52
1	gl	172	LEU	CA-C	6.32	1.61	1.52
1	hj	226	HIS	CA-C	-6.32	1.44	1.52
1	iB	44	SER	C-N	6.32	1.42	1.33
1	iN	6	LEU	CA-C	6.32	1.61	1.53
1	1S	28	GLU	C-N	6.32	1.43	1.33
1	jh	170	LYS	CA-C	-6.32	1.44	1.52
1	jQ	62	HIS	N-CA	6.32	1.56	1.46
1	kf	170	LYS	N-CA	-6.32	1.38	1.46
1	kG	52	LEU	CA-C	-6.32	1.44	1.52
1	ls	187	GLU	N-CA	6.32	1.54	1.46
1	lw	26	VAL	CA-C	6.32	1.60	1.52
1	lJ	10	MET	CA-CB	6.32	1.61	1.53
1	2L	99	PRO	CA-C	6.32	1.59	1.52
1	3l	41	SER	N-CA	6.32	1.54	1.46
1	5u	53	ASN	C-N	6.32	1.43	1.33
1	7h	44	SER	CA-CB	6.32	1.62	1.53
1	7s	57	ASN	C-N	6.32	1.42	1.33
1	7v	196	PRO	N-CA	-6.32	1.39	1.47
1	87	53	ASN	C-O	-6.32	1.16	1.24
1	9O	148	THR	N-CA	6.32	1.53	1.45
1	ai	12	HIS	ND1-CE1	6.32	1.38	1.32
1	av	112	GLN	CA-C	-6.32	1.44	1.52
1	c7	82	ARG	NE-CZ	-6.32	1.26	1.33
1	cN	142	VAL	C-O	-6.32	1.16	1.24
1	dp	82	ARG	N-CA	6.32	1.54	1.46
1	dt	83	LEU	CB-CG	6.32	1.66	1.53
1	f8	178	SER	N-CA	6.32	1.53	1.46
1	1z	87	HIS	CG-CD2	6.32	1.42	1.35
1	W	120	HIS	CA-CB	6.32	1.64	1.53
1	gH	19	THR	N-CA	6.32	1.53	1.46
1	1F	89	GLY	C-N	6.32	1.41	1.33
1	hh	4	GLN	C-N	6.32	1.42	1.33
1	1K	25	LYS	CA-CB	6.32	1.63	1.53
1	iz	132	ARG	CD-NE	6.32	1.55	1.46
1	iH	15	ILE	CA-CB	-6.32	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j6	49	PRO	N-CD	-6.32	1.39	1.47
1	jg	11	VAL	CA-CB	6.32	1.62	1.54
1	jk	22	ALA	N-CA	6.32	1.53	1.46
1	jY	82	ARG	NE-CZ	-6.32	1.26	1.33
1	20	147	PRO	N-CA	6.32	1.55	1.47
1	ka	221	VAL	CA-CB	-6.32	1.46	1.54
1	ke	140	LYS	N-CA	-6.32	1.38	1.46
1	kn	59	VAL	N-CA	6.32	1.53	1.46
1	27	99	PRO	C-N	6.32	1.42	1.33
1	lJ	32	PHE	N-CA	-6.32	1.39	1.46
1	2k	87	HIS	ND1-CE1	6.32	1.38	1.32
1	2C	144	MET	C-N	6.32	1.42	1.33
1	2T	157	PRO	CA-C	-6.32	1.42	1.52
1	3u	142	VAL	CA-CB	6.32	1.61	1.54
1	44	125	PRO	CA-CB	-6.32	1.49	1.53
1	4w	159	GLU	N-CA	-6.32	1.36	1.45
1	5d	192	GLN	CA-C	6.32	1.60	1.52
1	5n	58	THR	N-CA	6.32	1.54	1.46
1	5I	153	ILE	CA-CB	6.32	1.62	1.53
1	7v	18	ARG	CD-NE	6.32	1.55	1.46
1	Y	87	HIS	CD2-NE2	6.32	1.44	1.37
1	aJ	109	SER	CA-C	6.32	1.60	1.52
1	bf	152	ASP	C-O	-6.32	1.16	1.24
1	bs	152	ASP	CA-C	6.32	1.60	1.52
1	dj	220	GLY	CA-C	-6.32	1.45	1.52
1	1k	210	THR	CA-C	-6.32	1.44	1.53
1	dx	84	HIS	CA-CB	6.32	1.61	1.53
1	e4	120	HIS	ND1-CE1	6.32	1.38	1.32
1	el	225	GLY	N-CA	6.32	1.53	1.45
1	ey	213	GLU	C-N	6.32	1.42	1.34
1	ez	78	ALA	CA-C	6.32	1.60	1.52
1	eK	202	LEU	C-N	6.32	1.42	1.33
1	eM	195	ASN	CA-C	6.32	1.61	1.53
1	f8	124	ILE	CA-C	-6.32	1.47	1.53
1	fa	67	GLN	CA-CB	6.32	1.63	1.53
1	j	51	ASP	CA-CB	6.32	1.63	1.53
1	7	67	GLN	C-N	-6.32	1.25	1.33
1	gp	135	ILE	C-N	6.32	1.42	1.33
1	gZ	7	GLN	C-N	6.32	1.39	1.33
1	hr	112	GLN	CA-CB	6.32	1.63	1.53
1	hs	199	LYS	C-N	6.32	1.42	1.33
1	hQ	104	ILE	CA-CB	-6.32	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i0	172	LEU	C-N	6.32	1.42	1.34
1	iD	229	ARG	CZ-NH2	-6.32	1.25	1.33
1	j2	204	ALA	CA-C	6.32	1.62	1.52
1	jb	103	ASP	CA-C	6.32	1.61	1.52
1	ji	12	HIS	ND1-CE1	6.32	1.38	1.32
1	jt	39	MET	CA-CB	6.32	1.63	1.53
1	k7	40	PHE	CA-C	-6.32	1.44	1.52
1	k7	82	ARG	C-O	-6.32	1.16	1.24
1	kS	92	GLU	CA-C	6.32	1.60	1.52
1	l6	120	HIS	ND1-CE1	6.32	1.38	1.32
1	2G	99	PRO	N-CD	-6.32	1.39	1.47
1	2I	1	PRO	N-CA	6.32	1.56	1.47
1	2K	202	LEU	CA-C	6.32	1.61	1.52
1	2W	166	ASP	CA-CB	6.32	1.63	1.53
1	3A	134	ILE	N-CA	-6.32	1.39	1.46
1	3D	59	VAL	CA-C	-6.32	1.44	1.52
1	3M	71	GLU	CA-CB	6.32	1.63	1.53
1	5Q	12	HIS	N-CA	-6.32	1.38	1.46
1	63	21	ASN	C-N	6.32	1.42	1.34
1	6r	182	LYS	CA-CB	6.32	1.63	1.53
1	7J	70	LYS	C-N	6.32	1.42	1.33
1	7W	161	PHE	CA-C	6.32	1.60	1.52
1	87	216	THR	CA-C	6.32	1.61	1.52
1	8t	222	GLY	C-N	6.32	1.42	1.33
1	8P	4	GLN	N-CA	6.32	1.54	1.46
1	9a	124	ILE	N-CA	6.32	1.51	1.46
1	9P	120	HIS	ND1-CE1	6.32	1.38	1.32
1	10	62	HIS	C-N	-6.32	1.25	1.33
1	ar	113	GLU	CA-C	6.32	1.60	1.52
1	bm	43	LEU	CA-C	6.32	1.61	1.52
1	bG	71	GLU	CA-C	-6.32	1.44	1.52
1	bS	24	VAL	N-CA	6.32	1.53	1.46
1	c6	91	ILE	C-N	6.32	1.42	1.33
1	cD	177	ALA	CA-C	6.32	1.60	1.52
1	cR	126	VAL	C-N	6.32	1.41	1.33
1	cR	181	VAL	C-N	6.32	1.42	1.33
1	d1	162	ARG	CA-CB	6.32	1.63	1.53
1	d4	198	CYS	C-O	-6.32	1.16	1.24
1	ds	90	PRO	CA-C	6.32	1.60	1.52
1	eo	160	PRO	CA-CB	-6.32	1.45	1.53
1	g6	183	ASN	CA-CB	6.32	1.63	1.53
1	o	229	ARG	CD-NE	6.32	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	228	ALA	C-O	-6.32	1.15	1.23
1	v	85	PRO	CA-C	6.32	1.61	1.52
1	F	133	TRP	N-CA	-6.32	1.38	1.46
1	5	229	ARG	CA-CB	6.32	1.63	1.53
1	hk	89	GLY	CA-C	-6.31	1.42	1.51
1	iR	26	VAL	CA-C	6.31	1.60	1.52
1	jN	198	CYS	CA-CB	6.31	1.63	1.53
1	kE	77	ALA	C-N	6.31	1.42	1.33
1	2F	139	ASN	N-CA	6.31	1.54	1.46
1	3r	113	GLU	C-N	6.31	1.42	1.33
1	49	226	HIS	CE1-NE2	6.31	1.38	1.32
1	5P	133	TRP	NE1-CE2	6.31	1.44	1.37
1	6F	205	LEU	CA-C	6.31	1.60	1.52
1	7V	103	ASP	CA-C	-6.31	1.44	1.52
1	91	47	ALA	CA-C	6.31	1.60	1.52
1	9m	28	GLU	N-CA	-6.31	1.38	1.46
1	9V	185	MET	N-CA	-6.31	1.38	1.46
1	ar	84	HIS	ND1-CE1	6.31	1.38	1.32
1	bt	123	PRO	N-CA	-6.31	1.39	1.46
1	bF	87	HIS	C-N	6.31	1.42	1.33
1	c4	113	GLU	CA-CB	6.31	1.63	1.53
1	cK	170	LYS	C-O	-6.31	1.16	1.24
1	dg	23	TRP	N-CA	-6.31	1.38	1.46
1	e6	177	ALA	CA-C	6.31	1.60	1.52
1	eE	158	LYS	CA-CB	6.31	1.61	1.53
1	fd	153	ILE	C-N	6.31	1.42	1.33
1	fN	91	ILE	CA-CB	-6.31	1.46	1.54
1	0	116	GLY	CA-C	6.31	1.59	1.51
1	gs	181	VAL	CA-CB	-6.31	1.45	1.54
1	gA	44	SER	CA-CB	6.31	1.62	1.53
1	hp	118	MET	CA-CB	6.31	1.63	1.53
1	hu	126	VAL	C-N	6.31	1.42	1.33
1	i9	170	LYS	CA-C	6.31	1.61	1.52
1	if	197	ASP	CA-CB	6.31	1.63	1.53
1	jj	93	PRO	C-N	6.31	1.41	1.33
1	jp	211	LEU	N-CA	-6.31	1.38	1.46
1	ka	116	GLY	N-CA	-6.31	1.38	1.45
1	kc	87	HIS	ND1-CE1	6.31	1.38	1.32
1	kc	117	TRP	NE1-CE2	-6.31	1.30	1.37
1	21	67	GLN	CA-CB	6.31	1.63	1.53
1	l7	124	ILE	CA-CB	-6.31	1.46	1.54
1	l8	133	TRP	CA-CB	6.31	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lo	58	THR	N-CA	6.31	1.54	1.46
1	lv	87	HIS	CG-ND1	-6.31	1.31	1.38
1	lD	195	ASN	CA-CB	6.31	1.63	1.53
1	2k	1	PRO	N-CA	6.31	1.56	1.47
1	2U	21	ASN	CA-C	-6.31	1.44	1.52
1	4Z	2	ILE	CA-C	-6.31	1.44	1.52
1	51	117	TRP	NE1-CE2	-6.31	1.30	1.37
1	5H	82	ARG	CA-C	-6.31	1.44	1.52
1	5Z	135	ILE	CA-CB	6.31	1.62	1.54
1	63	202	LEU	C-O	-6.31	1.16	1.24
1	7F	11	VAL	CA-C	-6.31	1.45	1.52
1	86	83	LEU	CA-C	6.31	1.60	1.52
1	8h	17	PRO	C-O	-6.31	1.15	1.24
1	8q	124	ILE	N-CA	-6.31	1.41	1.46
1	8C	39	MET	C-N	6.31	1.42	1.33
1	9d	134	ILE	CA-C	-6.31	1.45	1.52
1	9S	74	ASN	N-CA	-6.31	1.38	1.46
1	9S	186	THR	CA-CB	6.31	1.63	1.53
1	9S	212	GLU	CA-CB	6.31	1.63	1.53
1	ao	18	ARG	C-N	6.31	1.42	1.33
1	az	37	ILE	C-O	-6.31	1.19	1.24
1	cI	50	GLN	CA-CB	6.31	1.63	1.53
1	cL	78	ALA	CA-C	6.31	1.60	1.52
1	d2	37	ILE	CA-C	6.31	1.59	1.52
1	dN	221	VAL	CA-C	6.31	1.60	1.52
1	1s	194	ALA	CA-C	-6.31	1.44	1.53
1	eT	224	PRO	CA-CB	6.31	1.63	1.53
1	eW	44	SER	CA-C	-6.31	1.46	1.53
1	eW	120	HIS	ND1-CE1	6.31	1.38	1.32
1	fu	120	HIS	N-CA	6.31	1.53	1.45
1	x	42	ALA	N-CA	-6.31	1.38	1.46
1	D	111	LEU	CA-CB	6.31	1.63	1.53
1	I	35	GLU	C-N	6.31	1.41	1.33
1	gw	32	PHE	N-CA	-6.31	1.37	1.46
1	gG	116	GLY	CA-C	-6.31	1.45	1.52
1	hE	98	GLU	CA-CB	-6.31	1.44	1.53
1	j9	204	ALA	N-CA	-6.31	1.38	1.46
1	jJ	142	VAL	N-CA	-6.31	1.39	1.46
1	k3	129	ILE	CA-C	-6.31	1.44	1.52
1	kq	30	LYS	C-N	6.31	1.42	1.33
1	kw	54	THR	CA-C	-6.31	1.44	1.52
1	lt	55	MET	CA-CB	6.31	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3z	82	ARG	CD-NE	6.31	1.55	1.46
1	4n	226	HIS	ND1-CE1	6.31	1.38	1.32
1	4o	133	TRP	NE1-CE2	-6.31	1.30	1.37
1	4r	81	ASP	CA-C	6.31	1.60	1.52
1	50	84	HIS	CA-C	6.31	1.60	1.52
1	6f	127	GLY	CA-C	-6.31	1.43	1.51
1	6C	9	GLN	CA-C	6.31	1.61	1.52
1	7T	193	ASN	CA-CB	6.31	1.62	1.53
1	9X	181	VAL	C-N	6.31	1.42	1.33
1	ae	160	PRO	CA-CB	6.31	1.62	1.53
1	c9	129	ILE	CA-CB	6.31	1.62	1.54
1	cQ	218	CYS	CA-CB	6.31	1.62	1.53
1	d9	44	SER	CA-CB	6.31	1.63	1.53
1	fZ	135	ILE	CA-CB	6.31	1.62	1.54
1	h7	126	VAL	C-N	6.31	1.42	1.33
1	ho	102	SER	N-CA	6.31	1.54	1.46
1	i8	56	LEU	CA-CB	6.31	1.63	1.53
1	1O	103	ASP	C-O	6.31	1.32	1.24
1	iH	84	HIS	CG-ND1	-6.31	1.31	1.38
1	iU	213	GLU	N-CA	-6.31	1.38	1.46
1	jb	148	THR	C-N	6.31	1.42	1.33
1	jr	213	GLU	CA-CB	6.31	1.63	1.53
1	kw	31	ALA	CA-C	6.31	1.61	1.52
1	lf	63	GLN	N-CA	-6.31	1.38	1.46
1	lp	54	THR	C-O	-6.31	1.16	1.24
1	lI	110	THR	N-CA	6.31	1.53	1.45
1	lQ	182	LYS	C-N	6.31	1.42	1.33
1	2K	203	LYS	CA-CB	6.31	1.63	1.53
1	2M	132	ARG	CA-C	6.31	1.60	1.52
1	2Q	103	ASP	N-CA	-6.31	1.38	1.46
1	4z	36	VAL	N-CA	6.31	1.53	1.46
1	4T	147	PRO	N-CA	-6.31	1.39	1.47
1	4Y	178	SER	CA-C	-6.31	1.44	1.52
1	56	53	ASN	N-CA	-6.31	1.38	1.46
1	5u	8	GLY	N-CA	6.31	1.51	1.45
1	64	194	ALA	N-CA	6.31	1.54	1.45
1	6d	54	THR	CA-C	6.31	1.60	1.52
1	75	145	TYR	CA-CB	6.31	1.64	1.53
1	7w	58	THR	CA-CB	-6.31	1.43	1.53
1	7O	59	VAL	C-N	6.31	1.41	1.33
1	8i	12	HIS	CE1-NE2	-6.31	1.26	1.32
1	9J	222	GLY	CA-C	-6.31	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9Z	57	ASN	CA-CB	6.31	1.63	1.53
1	az	144	MET	C-N	6.31	1.41	1.33
1	bG	160	PRO	N-CA	-6.31	1.39	1.47
1	cy	164	TYR	N-CA	-6.31	1.38	1.46
1	d5	105	ALA	CA-CB	6.31	1.64	1.53
1	dI	228	ALA	N-CA	-6.31	1.38	1.45
1	ez	121	ASN	N-CA	-6.31	1.38	1.46
1	g2	11	VAL	N-CA	6.31	1.53	1.46
1	u	61	GLY	CA-C	-6.31	1.45	1.52
1	I	154	ARG	N-CA	-6.31	1.38	1.46
1	gb	25	LYS	C-N	6.31	1.41	1.33
1	gw	87	HIS	CB-CG	6.31	1.58	1.50
1	gD	71	GLU	CA-C	-6.31	1.44	1.52
1	h4	102	SER	C-O	6.31	1.32	1.24
1	hi	83	LEU	CA-CB	6.31	1.63	1.53
1	id	167	ARG	CA-C	-6.31	1.43	1.52
1	ir	17	PRO	N-CD	-6.31	1.39	1.47
1	iG	51	ASP	CA-C	6.31	1.60	1.52
1	js	32	PHE	C-N	-6.31	1.26	1.33
1	jF	3	VAL	CA-C	6.31	1.60	1.52
1	k2	161	PHE	CA-C	6.31	1.60	1.52
1	lh	214	MET	CA-CB	6.31	1.63	1.53
1	lp	182	LYS	C-N	6.31	1.41	1.33
1	lG	52	LEU	CB-CG	6.31	1.66	1.53
1	2s	125	PRO	CA-CB	6.31	1.60	1.53
1	2L	79	GLU	N-CA	6.31	1.53	1.46
1	2X	152	ASP	CA-C	-6.31	1.44	1.52
1	39	124	ILE	CA-C	-6.31	1.47	1.52
1	3c	143	ARG	CA-C	-6.31	1.44	1.52
1	42	11	VAL	CA-CB	6.31	1.62	1.54
1	4B	86	VAL	CA-C	-6.31	1.45	1.52
1	5w	115	ILE	CA-C	6.31	1.61	1.52
1	6K	53	ASN	CA-CB	6.31	1.63	1.53
1	6Q	63	GLN	CA-C	-6.31	1.43	1.52
1	7x	5	ASN	N-CA	6.31	1.54	1.46
1	7G	18	ARG	C-N	6.31	1.42	1.33
1	84	36	VAL	CA-CB	6.31	1.61	1.54
1	8v	85	PRO	N-CA	6.31	1.54	1.47
1	8F	163	ASP	C-N	6.31	1.42	1.33
1	8P	74	ASN	CA-CB	6.31	1.63	1.53
1	9x	133	TRP	CA-CB	6.31	1.63	1.53
1	9M	192	GLN	CA-CB	6.31	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a7	181	VAL	CA-C	-6.31	1.44	1.52
1	aD	229	ARG	CA-CB	6.31	1.64	1.53
1	cE	3	VAL	CA-C	6.31	1.60	1.52
1	d8	8	GLY	CA-C	-6.31	1.43	1.52
1	eh	227	LYS	CA-CB	6.31	1.64	1.53
1	eo	117	TRP	NE1-CE2	-6.31	1.30	1.37
1	1r	195	ASN	CA-C	6.31	1.60	1.53
1	eY	76	GLU	C-O	-6.31	1.16	1.24
1	fL	108	THR	CA-C	-6.31	1.43	1.52
1	gI	154	ARG	CA-C	-6.31	1.44	1.52
1	1H	74	ASN	CA-C	-6.31	1.44	1.52
1	jr	84	HIS	CA-CB	6.31	1.63	1.53
1	22	55	MET	CA-C	6.31	1.60	1.52
1	kS	153	ILE	CA-CB	6.31	1.60	1.53
1	l7	147	PRO	N-CA	6.31	1.55	1.47
1	2N	215	MET	CA-C	6.31	1.60	1.52
1	36	38	PRO	C-N	6.31	1.41	1.33
1	4U	224	PRO	CA-CB	6.31	1.62	1.53
1	65	156	GLY	CA-C	6.31	1.60	1.51
1	6c	10	MET	CA-C	6.31	1.61	1.53
1	6d	206	GLY	N-CA	6.31	1.53	1.44
1	7p	168	PHE	C-N	6.31	1.42	1.33
1	8c	57	ASN	C-N	6.31	1.42	1.33
1	9M	94	GLY	C-N	6.31	1.42	1.33
1	9T	178	SER	N-CA	6.31	1.53	1.45
1	Z	209	ALA	CA-C	-6.31	1.44	1.52
1	aj	87	HIS	N-CA	-6.31	1.37	1.46
1	bz	19	THR	C-N	6.31	1.42	1.33
1	bF	195	ASN	CA-C	6.31	1.60	1.53
1	1m	124	ILE	CA-C	-6.31	1.47	1.53
1	eA	210	THR	CA-C	-6.31	1.44	1.52
1	eY	177	ALA	N-CA	6.31	1.54	1.46
1	f7	142	VAL	CA-CB	6.31	1.61	1.54
1	gD	55	MET	N-CA	6.30	1.53	1.46
1	1N	12	HIS	CE1-NE2	6.30	1.38	1.32
1	i9	136	LEU	CA-C	6.30	1.60	1.52
1	1O	68	MET	CA-CB	6.30	1.63	1.53
1	1O	116	GLY	CA-C	-6.30	1.44	1.51
1	iu	52	LEU	C-O	-6.30	1.16	1.24
1	iJ	145	TYR	CA-CB	6.30	1.61	1.52
1	kX	208	ALA	C-O	-6.30	1.17	1.24
1	l0	97	ARG	CA-C	6.30	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lu	153	ILE	CA-C	-6.30	1.45	1.53
1	lw	74	ASN	CA-C	6.30	1.60	1.52
1	2e	93	PRO	N-CA	6.30	1.55	1.47
1	2n	103	ASP	CA-C	-6.30	1.44	1.52
1	3S	179	GLN	CA-C	-6.30	1.44	1.52
1	4f	220	GLY	C-O	-6.30	1.15	1.24
1	4q	62	HIS	CE1-NE2	6.30	1.38	1.32
1	4t	230	VAL	CA-CB	-6.30	1.46	1.54
1	4R	86	VAL	C-N	6.30	1.41	1.33
1	55	84	HIS	ND1-CE1	6.30	1.38	1.32
1	5N	7	GLN	C-N	6.30	1.41	1.33
1	5T	207	PRO	N-CA	6.30	1.54	1.47
1	6q	85	PRO	CA-CB	6.30	1.62	1.53
1	7l	120	HIS	ND1-CE1	6.30	1.38	1.32
1	84	37	ILE	CA-CB	6.30	1.58	1.53
1	8t	74	ASN	CA-C	-6.30	1.44	1.52
1	8B	27	VAL	CA-CB	6.30	1.63	1.54
1	Y	92	GLU	C-N	6.30	1.40	1.33
1	Z	62	HIS	CE1-NE2	6.30	1.38	1.32
1	a7	195	ASN	CA-CB	6.30	1.62	1.53
1	11	203	LYS	CA-C	6.30	1.61	1.52
1	ao	212	GLU	CA-CB	6.30	1.63	1.53
1	aV	75	GLU	C-O	-6.30	1.16	1.24
1	bD	87	HIS	ND1-CE1	6.30	1.38	1.32
1	bM	193	ASN	C-N	6.30	1.41	1.33
1	cU	189	LEU	CA-C	6.30	1.60	1.52
1	cY	155	GLN	CA-CB	6.30	1.62	1.53
1	d1	149	SER	N-CA	6.30	1.53	1.45
1	da	97	ARG	N-CA	-6.30	1.38	1.46
1	dN	118	MET	C-O	-6.30	1.16	1.24
1	eu	142	VAL	CA-CB	-6.30	1.47	1.54
1	ev	159	GLU	C-N	-6.30	1.28	1.33
1	1t	56	LEU	CA-C	-6.30	1.44	1.52
1	gE	141	ILE	CA-C	6.30	1.60	1.52
1	ie	12	HIS	CE1-NE2	6.30	1.38	1.32
1	ig	80	TRP	NE1-CE2	-6.30	1.30	1.37
1	io	57	ASN	N-CA	-6.30	1.37	1.46
1	iJ	146	SER	CA-C	6.30	1.59	1.52
1	iR	198	CYS	CA-CB	6.30	1.63	1.53
1	kQ	11	VAL	CA-C	6.30	1.60	1.52
1	ll	42	ALA	CA-C	-6.30	1.44	1.52
1	2m	98	GLU	CA-CB	6.30	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5u	87	HIS	CB-CG	-6.30	1.41	1.50
1	9g	141	ILE	CA-C	6.30	1.61	1.52
1	9V	172	LEU	N-CA	6.30	1.53	1.46
1	at	206	GLY	C-N	6.30	1.41	1.34
1	aM	208	ALA	CA-C	6.30	1.60	1.52
1	aS	131	LYS	C-N	6.30	1.42	1.33
1	bS	93	PRO	N-CA	6.30	1.54	1.47
1	cm	70	LYS	C-N	-6.30	1.25	1.33
1	dg	177	ALA	CA-C	6.30	1.61	1.52
1	dI	137	GLY	CA-C	-6.30	1.45	1.52
1	eu	93	PRO	CA-CB	6.30	1.62	1.53
1	fP	199	LYS	C-N	6.30	1.42	1.33
1	y	41	SER	C-O	-6.30	1.16	1.24
1	hK	15	ILE	CA-CB	6.30	1.61	1.54
1	i1	19	THR	CA-C	6.30	1.60	1.52
1	i2	10	MET	CA-C	6.30	1.60	1.52
1	ki	65	ALA	N-CA	-6.30	1.38	1.46
1	kG	84	HIS	CA-C	-6.30	1.44	1.52
1	l4	58	THR	CA-CB	6.30	1.64	1.53
1	lb	68	MET	C-N	6.30	1.41	1.33
1	lu	193	ASN	C-N	6.30	1.41	1.33
1	lB	204	ALA	N-CA	6.30	1.53	1.46
1	lK	44	SER	CA-CB	6.30	1.64	1.53
1	2g	124	ILE	CA-C	-6.30	1.48	1.53
1	2q	73	ILE	CA-CB	-6.30	1.46	1.54
1	2v	226	HIS	CD2-NE2	6.30	1.44	1.37
1	34	148	THR	CB-OG1	-6.30	1.33	1.43
1	3B	189	LEU	C-N	6.30	1.42	1.33
1	3I	152	ASP	N-CA	-6.30	1.38	1.46
1	3K	132	ARG	CA-C	6.30	1.60	1.52
1	4R	125	PRO	CA-CB	6.30	1.62	1.53
1	6c	152	ASP	CA-C	6.30	1.60	1.53
1	7Z	140	LYS	CA-CB	6.30	1.63	1.53
1	8v	226	HIS	CB-CG	6.30	1.58	1.50
1	8B	139	ASN	C-N	6.30	1.42	1.33
1	8C	13	GLN	CA-C	6.30	1.60	1.52
1	8N	32	PHE	C-N	6.30	1.40	1.33
1	8Q	175	GLU	N-CA	-6.30	1.38	1.46
1	ak	153	ILE	N-CA	6.30	1.53	1.46
1	aA	215	MET	N-CA	-6.30	1.38	1.46
1	bs	172	LEU	CA-C	6.30	1.60	1.52
1	bU	18	ARG	N-CA	6.30	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cq	223	GLY	C-N	6.30	1.41	1.33
1	1g	69	LEU	CA-C	6.30	1.60	1.52
1	d1	151	LEU	CA-CB	6.30	1.63	1.53
1	ez	130	TYR	C-N	6.30	1.42	1.33
1	eZ	66	MET	N-CA	6.30	1.53	1.46
1	fD	37	ILE	CA-C	6.30	1.58	1.52
1	L	117	TRP	CA-C	6.30	1.60	1.52
1	hF	152	ASP	C-O	-6.30	1.15	1.24
1	hM	130	TYR	CZ-OH	6.30	1.51	1.38
1	hW	135	ILE	CA-CB	6.30	1.62	1.54
1	i1	190	LEU	C-N	-6.30	1.25	1.33
1	ia	190	LEU	C-O	-6.30	1.16	1.24
1	ik	37	ILE	C-O	-6.30	1.19	1.24
1	it	120	HIS	CB-CG	6.30	1.58	1.50
1	iO	127	GLY	CA-C	6.30	1.59	1.52
1	j9	85	PRO	CA-CB	6.30	1.62	1.53
1	jl	137	GLY	N-CA	6.30	1.53	1.45
1	kc	198	CYS	CA-CB	-6.30	1.43	1.53
1	kd	81	ASP	C-O	-6.30	1.16	1.24
1	ke	114	GLN	C-N	6.30	1.41	1.33
1	kx	184	TRP	CA-CB	6.30	1.63	1.53
1	lh	3	VAL	CA-C	-6.30	1.45	1.52
1	lj	130	TYR	CZ-OH	6.30	1.51	1.38
1	lj	190	LEU	N-CA	-6.30	1.38	1.46
1	lB	120	HIS	ND1-CE1	6.30	1.38	1.32
1	3j	61	GLY	CA-C	-6.30	1.41	1.52
1	3R	124	ILE	CA-CB	6.30	1.60	1.53
1	3Y	44	SER	CA-C	-6.30	1.44	1.52
1	4z	208	ALA	CA-C	6.30	1.61	1.52
1	52	71	GLU	CA-C	-6.30	1.44	1.52
1	5j	23	TRP	CA-CB	-6.30	1.43	1.53
1	5m	120	HIS	CB-CG	6.30	1.58	1.50
1	5D	189	LEU	N-CA	6.30	1.53	1.46
1	61	37	ILE	C-O	-6.30	1.19	1.24
1	63	88	ALA	C-N	6.30	1.42	1.33
1	6g	219	GLN	N-CA	-6.30	1.38	1.46
1	6O	55	MET	CA-CB	6.30	1.63	1.53
1	7e	26	VAL	CA-C	-6.30	1.44	1.52
1	7m	53	ASN	CA-C	6.30	1.61	1.52
1	8d	179	GLN	CA-C	-6.30	1.44	1.52
1	8k	95	GLN	N-CA	-6.30	1.38	1.46
1	8m	198	CYS	CA-CB	6.30	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9F	42	ALA	N-CA	-6.30	1.38	1.46
1	9J	117	TRP	NE1-CE2	-6.30	1.30	1.37
1	9V	55	MET	CA-C	6.30	1.60	1.52
1	a6	12	HIS	CA-CB	6.30	1.61	1.53
1	ac	129	ILE	CA-C	6.30	1.60	1.52
1	aK	165	VAL	CA-CB	6.30	1.61	1.54
1	aO	176	GLN	CA-CB	6.30	1.64	1.53
1	bu	154	ARG	CA-C	6.30	1.60	1.52
1	bA	17	PRO	N-CD	-6.30	1.39	1.47
1	1d	226	HIS	N-CA	-6.30	1.38	1.45
1	cC	33	SER	N-CA	6.30	1.54	1.45
1	d0	153	ILE	C-N	6.30	1.41	1.33
1	dv	191	VAL	CA-C	6.30	1.60	1.52
1	dM	133	TRP	NE1-CE2	6.30	1.44	1.37
1	es	15	ILE	CA-CB	-6.30	1.45	1.54
1	1r	37	ILE	CA-C	6.30	1.58	1.52
1	eA	58	THR	CA-C	-6.30	1.44	1.52
1	eW	178	SER	CA-CB	6.30	1.64	1.53
1	fo	62	HIS	CB-CG	-6.30	1.41	1.50
1	fy	137	GLY	N-CA	6.30	1.53	1.45
1	fH	157	PRO	N-CD	-6.30	1.39	1.47
1	fT	162	ARG	CD-NE	6.30	1.55	1.46
1	g3	6	LEU	CA-C	6.30	1.60	1.52
1	k	64	ALA	C-N	6.30	1.41	1.33
1	r	128	GLU	C-N	6.30	1.41	1.33
1	gD	192	GLN	C-N	6.30	1.41	1.33
1	gQ	63	GLN	C-N	6.30	1.42	1.33
1	gX	62	HIS	CE1-NE2	6.30	1.38	1.32
1	hc	12	HIS	N-CA	-6.30	1.38	1.46
1	ii	129	ILE	C-N	6.30	1.42	1.33
1	iM	164	TYR	CA-C	-6.30	1.44	1.52
1	iZ	154	ARG	C-N	6.30	1.42	1.33
1	72	87	HIS	ND1-CE1	6.30	1.38	1.32
1	7U	41	SER	CA-CB	6.30	1.63	1.53
1	96	183	ASN	C-N	6.30	1.41	1.33
1	9t	84	HIS	N-CA	-6.30	1.40	1.46
1	9C	101	GLY	N-CA	6.30	1.54	1.45
1	9Q	134	ILE	CA-C	6.30	1.60	1.52
1	eM	3	VAL	CA-C	-6.30	1.45	1.52
1	fN	101	GLY	N-CA	6.30	1.53	1.45
1	fY	123	PRO	N-CD	-6.30	1.39	1.47
1	g6	100	ARG	CA-CB	6.30	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h	141	ILE	N-CA	-6.30	1.39	1.46
1	gm	127	GLY	CA-C	-6.30	1.45	1.52
1	gB	52	LEU	CA-C	6.30	1.60	1.52
1	gC	222	GLY	N-CA	6.30	1.54	1.45
1	gP	18	ARG	CA-C	-6.30	1.44	1.52
1	gV	62	HIS	CA-C	-6.30	1.46	1.53
1	h3	25	LYS	CA-CB	6.30	1.63	1.53
1	h3	91	ILE	CA-C	6.30	1.60	1.52
1	hc	139	ASN	C-N	6.30	1.41	1.33
1	ia	212	GLU	CA-CB	6.30	1.63	1.53
1	il	185	MET	CA-CB	6.30	1.63	1.53
1	jp	64	ALA	CA-CB	6.30	1.63	1.53
1	ka	166	ASP	N-CA	-6.30	1.38	1.46
1	kt	134	ILE	CA-CB	6.30	1.62	1.54
1	kA	124	ILE	CA-C	6.30	1.59	1.52
1	kB	201	ILE	CA-C	6.30	1.61	1.52
1	kL	132	ARG	CA-CB	6.30	1.63	1.53
1	lR	226	HIS	CG-CD2	6.30	1.42	1.35
1	2e	147	PRO	CA-CB	6.30	1.62	1.53
1	2e	177	ALA	CA-C	6.30	1.61	1.52
1	2Z	84	HIS	N-CA	6.30	1.54	1.46
1	31	15	ILE	N-CA	-6.30	1.38	1.46
1	3o	123	PRO	CA-C	6.30	1.60	1.52
1	51	21	ASN	CA-CB	6.30	1.63	1.53
1	5B	211	LEU	CA-CB	6.30	1.64	1.53
1	6e	149	SER	N-CA	6.30	1.54	1.46
1	6u	92	GLU	CA-C	6.30	1.60	1.53
1	6w	230	VAL	N-CA	6.30	1.53	1.46
1	8z	25	LYS	CA-C	6.30	1.60	1.52
1	8C	133	TRP	C-N	6.30	1.41	1.33
1	a3	4	GLN	C-N	6.30	1.41	1.33
1	ak	228	ALA	C-N	6.30	1.42	1.33
1	12	180	GLU	CA-C	-6.30	1.44	1.52
1	aO	51	ASP	C-N	6.30	1.41	1.33
1	17	25	LYS	CA-C	-6.30	1.44	1.52
1	bu	54	THR	C-O	-6.30	1.16	1.24
1	bD	46	GLY	C-N	6.30	1.42	1.33
1	cu	37	ILE	CA-C	6.30	1.58	1.52
1	cu	43	LEU	CA-C	6.30	1.61	1.52
1	es	183	ASN	CA-C	6.30	1.60	1.52
1	1t	225	GLY	N-CA	-6.30	1.36	1.45
1	f0	42	ALA	CA-C	6.30	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	175	GLU	CA-C	6.30	1.61	1.52
1	J	160	PRO	C-N	6.30	1.42	1.33
1	7	140	LYS	N-CA	-6.30	1.38	1.46
1	hm	15	ILE	N-CA	-6.29	1.38	1.46
1	hs	84	HIS	CE1-NE2	-6.29	1.26	1.32
1	k3	73	ILE	CA-C	6.29	1.60	1.52
1	kr	172	LEU	C-N	6.29	1.42	1.33
1	2D	122	PRO	N-CD	-6.29	1.39	1.47
1	2S	40	PHE	N-CA	6.29	1.53	1.46
1	3Y	40	PHE	CA-CB	6.29	1.63	1.53
1	4F	14	ALA	C-N	6.29	1.42	1.33
1	4X	167	ARG	N-CA	-6.29	1.38	1.46
1	5d	68	MET	CG-SD	6.29	1.96	1.80
1	5l	151	LEU	N-CA	-6.29	1.38	1.46
1	7o	163	ASP	CA-CB	6.29	1.63	1.53
1	7P	152	ASP	CA-CB	6.29	1.64	1.53
1	9o	75	GLU	N-CA	-6.29	1.38	1.46
1	9M	221	VAL	CA-C	6.29	1.59	1.52
1	Y	12	HIS	ND1-CE1	6.29	1.38	1.32
1	12	120	HIS	ND1-CE1	6.29	1.38	1.32
1	aF	127	GLY	C-N	6.29	1.41	1.33
1	aH	25	LYS	CA-CB	6.29	1.63	1.53
1	b4	15	ILE	CA-C	6.29	1.59	1.52
1	b4	195	ASN	CA-CB	6.29	1.62	1.53
1	b5	184	TRP	CA-CB	6.29	1.63	1.53
1	bJ	165	VAL	CA-CB	6.29	1.62	1.54
1	cy	164	TYR	C-N	6.29	1.41	1.33
1	e6	130	TYR	CA-CB	6.29	1.63	1.53
1	h	164	TYR	C-O	6.29	1.31	1.24
1	h9	216	THR	CA-C	6.29	1.61	1.52
1	hy	31	ALA	CA-C	-6.29	1.45	1.53
1	hT	2	ILE	C-N	6.29	1.42	1.33
1	ir	137	GLY	CA-C	-6.29	1.44	1.52
1	iZ	160	PRO	CA-CB	6.29	1.61	1.53
1	jn	32	PHE	N-CA	-6.29	1.39	1.46
1	1Y	152	ASP	N-CA	-6.29	1.38	1.46
1	k0	116	GLY	C-N	6.29	1.42	1.33
1	ky	53	ASN	CA-CB	6.29	1.63	1.53
1	lh	179	GLN	CA-CB	6.29	1.63	1.53
1	lh	192	GLN	CA-C	6.29	1.60	1.52
1	3e	197	ASP	N-CA	6.29	1.53	1.46
1	3u	115	ILE	N-CA	-6.29	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3E	131	LYS	N-CA	-6.29	1.38	1.46
1	4r	111	LEU	C-N	6.29	1.41	1.33
1	4U	79	GLU	C-N	6.29	1.41	1.33
1	5e	226	HIS	ND1-CE1	6.29	1.38	1.32
1	5j	86	VAL	N-CA	-6.29	1.38	1.46
1	5L	122	PRO	C-N	6.29	1.41	1.33
1	5V	150	ILE	CA-CB	6.29	1.62	1.54
1	6E	176	GLN	CA-CB	6.29	1.64	1.53
1	79	164	TYR	CA-CB	6.29	1.64	1.53
1	7r	110	THR	N-CA	6.29	1.53	1.45
1	8f	171	THR	CA-C	-6.29	1.44	1.52
1	8g	203	LYS	C-N	6.29	1.43	1.33
1	8o	130	TYR	CG-CD2	6.29	1.52	1.39
1	9d	84	HIS	C-O	-6.29	1.19	1.25
1	9Y	230	VAL	CA-CB	-6.29	1.46	1.54
1	ao	29	GLU	CA-C	-6.29	1.44	1.52
1	aE	188	THR	C-O	-6.29	1.16	1.24
1	aM	116	GLY	CA-C	-6.29	1.44	1.51
1	aT	187	GLU	CA-C	6.29	1.60	1.52
1	15	203	LYS	CA-C	6.29	1.61	1.52
1	bv	224	PRO	N-CD	-6.29	1.39	1.47
1	bH	70	LYS	CA-CB	6.29	1.63	1.53
1	bO	170	LYS	CA-C	6.29	1.60	1.52
1	bP	179	GLN	N-CA	6.29	1.53	1.46
1	c8	128	GLU	CA-CB	6.29	1.63	1.53
1	da	162	ARG	C-N	6.29	1.41	1.33
1	dO	105	ALA	CA-C	6.29	1.61	1.52
1	ei	169	TYR	CA-CB	6.29	1.63	1.53
1	1s	166	ASP	CA-CB	6.29	1.63	1.53
1	eK	32	PHE	CA-CB	6.29	1.63	1.53
1	f4	146	SER	N-CA	6.29	1.51	1.46
1	fB	27	VAL	CA-C	-6.29	1.44	1.52
1	fO	215	MET	CA-CB	6.29	1.63	1.53
1	fR	115	ILE	C-N	6.29	1.41	1.33
1	fS	217	ALA	N-CA	-6.29	1.37	1.45
1	C	184	TRP	C-N	-6.29	1.25	1.33
1	L	27	VAL	CA-CB	6.29	1.62	1.54
1	L	179	GLN	CA-C	6.29	1.61	1.52
1	gk	74	ASN	CA-CB	6.29	1.63	1.53
1	gL	5	ASN	C-N	6.29	1.42	1.33
1	hp	190	LEU	CA-C	6.29	1.60	1.52
1	id	178	SER	CA-CB	6.29	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iW	184	TRP	CA-C	6.29	1.61	1.52
1	jC	219	GLN	CA-CB	6.29	1.63	1.53
1	jQ	166	ASP	CA-C	6.29	1.60	1.52
1	jW	219	GLN	C-N	6.29	1.42	1.33
1	k6	134	ILE	N-CA	-6.29	1.39	1.46
1	kD	75	GLU	CA-C	-6.29	1.44	1.52
1	25	97	ARG	CD-NE	6.29	1.55	1.46
1	2x	73	ILE	N-CA	-6.29	1.39	1.46
1	57	46	GLY	C-O	-6.29	1.16	1.24
1	5j	103	ASP	C-N	6.29	1.41	1.33
1	7k	162	ARG	N-CA	-6.29	1.38	1.46
1	82	49	PRO	C-N	6.29	1.42	1.33
1	8q	77	ALA	CA-C	6.29	1.60	1.52
1	8I	53	ASN	N-CA	-6.29	1.38	1.46
1	8M	129	ILE	CA-C	6.29	1.60	1.52
1	8Q	123	PRO	C-O	6.29	1.31	1.23
1	9c	157	PRO	C-N	6.29	1.42	1.33
1	9s	23	TRP	C-N	-6.29	1.25	1.33
1	a6	123	PRO	C-N	6.29	1.40	1.33
1	as	188	THR	C-N	6.29	1.41	1.33
1	aB	80	TRP	NE1-CE2	6.29	1.44	1.37
1	bc	166	ASP	CA-CB	6.29	1.63	1.53
1	bX	78	ALA	CA-C	6.29	1.60	1.52
1	dn	166	ASP	CA-C	6.29	1.60	1.52
1	du	215	MET	C-N	6.29	1.42	1.33
1	eH	126	VAL	CA-C	-6.29	1.44	1.52
1	eR	194	ALA	CA-C	-6.29	1.44	1.52
1	eS	202	LEU	N-CA	-6.29	1.38	1.46
1	eY	44	SER	CA-C	6.29	1.61	1.52
1	fA	3	VAL	N-CA	6.29	1.53	1.46
1	g5	78	ALA	CA-C	-6.29	1.44	1.52
1	R	47	ALA	N-CA	6.29	1.54	1.46
1	gr	12	HIS	ND1-CE1	6.29	1.38	1.32
1	gP	80	TRP	CA-CB	6.29	1.63	1.53
1	gQ	88	ALA	CA-C	6.29	1.60	1.52
1	ho	146	SER	CA-C	6.29	1.59	1.52
1	hZ	65	ALA	N-CA	-6.29	1.38	1.46
1	ix	21	ASN	CA-C	-6.29	1.44	1.52
1	j8	162	ARG	C-O	-6.29	1.16	1.24
1	kx	75	GLU	CA-CB	6.29	1.63	1.53
1	4X	78	ALA	CA-CB	-6.29	1.42	1.53
1	5t	32	PHE	N-CA	6.29	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5z	188	THR	CA-C	-6.29	1.48	1.52
1	5J	62	HIS	CA-C	6.29	1.61	1.53
1	5Y	134	ILE	C-N	6.29	1.41	1.33
1	6h	227	LYS	N-CA	-6.29	1.39	1.46
1	7r	24	VAL	CA-C	-6.29	1.44	1.52
1	9C	201	ILE	CA-C	6.29	1.60	1.52
1	a2	84	HIS	C-O	-6.29	1.20	1.25
1	bv	45	GLU	N-CA	6.29	1.54	1.46
1	bU	9	GLN	N-CA	-6.29	1.38	1.46
1	ei	162	ARG	CA-CB	6.29	1.63	1.53
1	et	54	THR	CA-C	6.29	1.60	1.52
1	f9	142	VAL	CA-CB	6.29	1.62	1.54
1	W	143	ARG	CD-NE	6.29	1.55	1.46
1	gS	216	THR	C-N	6.29	1.42	1.33
1	gZ	125	PRO	C-N	6.29	1.41	1.33
1	1I	6	LEU	C-O	-6.29	1.19	1.24
1	hv	30	LYS	N-CA	-6.29	1.38	1.46
1	hP	21	ASN	C-N	6.29	1.42	1.34
1	i9	78	ALA	CA-CB	6.29	1.63	1.53
1	iC	89	GLY	CA-C	6.29	1.60	1.51
1	iG	49	PRO	CA-CB	-6.29	1.45	1.53
1	iK	16	SER	CA-C	6.29	1.61	1.52
1	jd	22	ALA	CA-C	6.29	1.60	1.52
1	ji	134	ILE	C-N	6.29	1.41	1.34
1	jl	35	GLU	CA-C	6.29	1.61	1.52
1	jF	170	LYS	CA-CB	6.29	1.63	1.53
1	ku	224	PRO	CA-C	-6.29	1.45	1.52
1	l7	22	ALA	N-CA	6.29	1.53	1.46
1	2M	132	ARG	C-O	-6.29	1.16	1.24
1	32	1	PRO	N-CA	6.29	1.56	1.47
1	3e	140	LYS	CA-CB	6.29	1.63	1.53
1	3l	135	ILE	CA-CB	-6.29	1.47	1.54
1	3l	164	TYR	CA-C	6.29	1.60	1.52
1	3r	12	HIS	C-N	-6.29	1.24	1.33
1	3r	68	MET	CA-CB	6.29	1.63	1.53
1	3w	121	ASN	CA-C	6.29	1.59	1.52
1	3x	43	LEU	N-CA	6.29	1.53	1.46
1	3J	108	THR	CA-C	-6.29	1.44	1.52
1	3L	161	PHE	N-CA	6.29	1.54	1.46
1	4b	4	GLN	N-CA	6.29	1.54	1.46
1	4E	66	MET	C-N	6.29	1.42	1.33
1	57	199	LYS	CA-CB	6.29	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5p	227	LYS	N-CA	6.29	1.53	1.45
1	6v	184	TRP	CA-C	6.29	1.60	1.52
1	73	34	PRO	CA-CB	-6.29	1.44	1.53
1	80	15	ILE	CA-CB	6.29	1.60	1.54
1	8c	101	GLY	CA-C	6.29	1.59	1.52
1	8o	124	ILE	N-CA	-6.29	1.41	1.46
1	8y	20	LEU	CA-C	6.29	1.60	1.52
1	8B	154	ARG	N-CA	-6.29	1.37	1.45
1	8O	120	HIS	ND1-CE1	6.29	1.38	1.32
1	8U	201	ILE	CA-C	-6.29	1.44	1.52
1	a0	153	ILE	CA-C	-6.29	1.45	1.52
1	a5	133	TRP	CA-C	6.29	1.60	1.52
1	av	223	GLY	C-N	6.29	1.41	1.33
1	aK	118	MET	C-N	6.29	1.41	1.33
1	bd	87	HIS	ND1-CE1	6.29	1.38	1.32
1	dD	79	GLU	C-O	-6.29	1.16	1.24
1	ek	201	ILE	N-CA	6.29	1.53	1.46
1	f9	77	ALA	C-N	6.29	1.42	1.33
1	l	133	TRP	NE1-CE2	-6.29	1.30	1.37
1	s	100	ARG	CD-NE	6.29	1.55	1.46
1	J	84	HIS	C-N	6.29	1.41	1.33
1	gZ	78	ALA	CA-C	-6.29	1.44	1.52
1	ir	116	GLY	CA-C	6.29	1.59	1.52
1	k0	9	GLN	CA-CB	6.29	1.62	1.53
1	34	113	GLU	CA-C	6.29	1.60	1.52
1	47	59	VAL	CA-C	6.29	1.60	1.52
1	5I	61	GLY	C-N	6.29	1.41	1.33
1	6f	110	THR	C-O	6.29	1.31	1.23
1	7E	152	ASP	CA-CB	6.29	1.63	1.53
1	9a	157	PRO	CA-CB	6.29	1.63	1.53
1	15	144	MET	N-CA	-6.29	1.38	1.46
1	bg	40	PHE	N-CA	-6.29	1.38	1.46
1	bJ	51	ASP	CA-C	6.29	1.60	1.52
1	bO	226	HIS	CD2-NE2	6.29	1.44	1.37
1	1g	97	ARG	N-CA	-6.29	1.37	1.45
1	dG	179	GLN	N-CA	6.29	1.53	1.46
1	fG	71	GLU	C-O	-6.29	1.16	1.24
1	gW	120	HIS	CB-CG	6.29	1.58	1.50
1	h2	102	SER	CA-C	6.29	1.61	1.52
1	hb	2	ILE	CA-CB	6.29	1.62	1.54
1	hc	119	THR	CA-CB	-6.29	1.44	1.53
1	hs	87	HIS	CG-ND1	6.29	1.45	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hA	148	THR	N-CA	-6.29	1.38	1.46
1	j9	230	VAL	C-N	6.29	1.42	1.33
1	jj	195	ASN	CA-CB	6.29	1.63	1.52
1	jA	4	GLN	CA-C	6.29	1.60	1.52
1	k9	11	VAL	CA-C	-6.29	1.45	1.52
1	21	132	ARG	CD-NE	6.29	1.55	1.46
1	kn	62	HIS	ND1-CE1	6.29	1.38	1.32
1	kp	129	ILE	C-N	6.29	1.41	1.33
1	kQ	201	ILE	N-CA	6.29	1.53	1.46
1	l1	86	VAL	N-CA	6.29	1.54	1.46
1	lE	214	MET	C-O	-6.29	1.16	1.24
1	2S	123	PRO	C-N	6.29	1.39	1.33
1	37	140	LYS	CA-CB	6.29	1.63	1.53
1	38	128	GLU	C-N	6.29	1.41	1.33
1	3S	25	LYS	CA-C	-6.29	1.44	1.52
1	3Y	85	PRO	N-CD	6.29	1.56	1.47
1	4S	94	GLY	N-CA	6.29	1.53	1.45
1	5b	188	THR	N-CA	6.29	1.54	1.46
1	5z	73	ILE	CA-CB	6.29	1.62	1.54
1	6I	182	LYS	CA-CB	6.29	1.63	1.53
1	6Y	164	TYR	CA-C	6.29	1.60	1.52
1	7s	214	MET	N-CA	-6.29	1.38	1.46
1	8g	87	HIS	CA-C	-6.29	1.45	1.52
1	8k	127	GLY	C-N	6.29	1.42	1.33
1	8H	113	GLU	CA-C	-6.29	1.44	1.52
1	8O	57	ASN	N-CA	6.29	1.54	1.46
1	93	120	HIS	CA-C	6.29	1.60	1.52
1	9Q	133	TRP	CA-CB	6.29	1.63	1.53
1	10	166	ASP	CA-C	6.29	1.60	1.52
1	bf	226	HIS	CA-C	-6.29	1.44	1.52
1	bk	100	ARG	CD-NE	6.29	1.55	1.46
1	bm	133	TRP	C-N	6.29	1.41	1.33
1	cb	99	PRO	CA-C	6.29	1.60	1.52
1	cd	45	GLU	CA-CB	6.29	1.60	1.53
1	cg	202	LEU	C-N	-6.29	1.25	1.34
1	dr	139	ASN	CA-C	6.29	1.60	1.52
1	eL	206	GLY	C-N	-6.29	1.27	1.34
1	1v	23	TRP	N-CA	6.29	1.53	1.46
1	W	164	TYR	CZ-OH	6.29	1.51	1.38
1	hO	97	ARG	CZ-NH2	-6.28	1.25	1.33
1	1O	214	MET	CA-CB	6.28	1.63	1.53
1	im	165	VAL	N-CA	-6.28	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jl	16	SER	C-N	-6.28	1.26	1.33
1	jq	230	VAL	N-CA	-6.28	1.38	1.46
1	jR	87	HIS	ND1-CE1	6.28	1.38	1.32
1	k1	74	ASN	C-N	6.28	1.41	1.33
1	kf	54	THR	N-CA	6.28	1.53	1.46
1	21	80	TRP	CA-C	6.28	1.60	1.52
1	km	38	PRO	N-CA	-6.28	1.39	1.47
1	kn	200	THR	N-CA	-6.28	1.39	1.46
1	ku	204	ALA	C-N	6.28	1.41	1.33
1	kW	5	ASN	CA-CB	6.28	1.62	1.53
1	l1	154	ARG	CA-CB	-6.28	1.43	1.53
1	l8	132	ARG	CA-C	6.28	1.60	1.52
1	lv	186	THR	N-CA	6.28	1.53	1.46
1	3q	97	ARG	CA-C	-6.28	1.44	1.52
1	3y	128	GLU	C-O	-6.28	1.16	1.24
1	3K	163	ASP	C-N	-6.28	1.26	1.33
1	4h	199	LYS	CA-C	6.28	1.61	1.52
1	4n	54	THR	CB-OG1	-6.28	1.33	1.43
1	4t	84	HIS	ND1-CE1	6.28	1.38	1.32
1	5R	18	ARG	CD-NE	6.28	1.55	1.46
1	6q	69	LEU	N-CA	-6.28	1.39	1.46
1	6B	156	GLY	CA-C	6.28	1.61	1.51
1	6S	87	HIS	CB-CG	6.28	1.58	1.50
1	7G	70	LYS	CA-CB	6.28	1.63	1.53
1	82	52	LEU	CA-C	6.28	1.60	1.52
1	8Z	187	GLU	CA-C	6.28	1.60	1.52
1	93	52	LEU	CA-CB	6.28	1.63	1.53
1	99	62	HIS	CB-CG	-6.28	1.41	1.50
1	ae	124	ILE	CB-CG1	6.28	1.66	1.53
1	aA	2	ILE	C-O	-6.28	1.17	1.24
1	1c	47	ALA	CA-C	6.28	1.60	1.52
1	c9	105	ALA	CA-C	6.28	1.61	1.52
1	dn	113	GLU	CA-CB	6.28	1.63	1.53
1	do	182	LYS	C-N	6.28	1.41	1.33
1	eg	169	TYR	CA-C	6.28	1.61	1.52
1	ek	55	MET	N-CA	-6.28	1.38	1.46
1	ek	106	GLY	N-CA	6.28	1.54	1.45
1	ep	54	THR	CA-CB	-6.28	1.43	1.53
1	eA	204	ALA	C-N	6.28	1.42	1.33
1	g1	66	MET	CA-CB	6.28	1.63	1.53
1	j	69	LEU	C-N	6.28	1.42	1.34
1	p	32	PHE	N-CA	-6.28	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	R	12	HIS	ND1-CE1	6.28	1.38	1.32
1	U	67	GLN	C-N	6.28	1.42	1.33
1	gi	36	VAL	CA-C	6.28	1.60	1.52
1	hm	185	MET	C-O	-6.28	1.16	1.24
1	hn	60	GLY	CA-C	-6.28	1.43	1.51
1	i6	88	ALA	CA-C	-6.28	1.44	1.53
1	iz	129	ILE	N-CA	6.28	1.53	1.46
1	iK	197	ASP	CA-CB	6.28	1.63	1.53
1	iU	79	GLU	CA-C	6.28	1.60	1.52
1	kF	168	PHE	CA-CB	6.28	1.63	1.53
1	24	185	MET	N-CA	-6.28	1.38	1.46
1	lo	165	VAL	CA-C	6.28	1.60	1.52
1	2n	86	VAL	CA-C	-6.28	1.44	1.52
1	2o	200	THR	C-N	6.28	1.41	1.33
1	3O	42	ALA	CA-C	6.28	1.61	1.52
1	92	87	HIS	ND1-CE1	6.28	1.38	1.32
1	9P	191	VAL	C-N	6.28	1.42	1.34
1	ba	191	VAL	CA-C	6.28	1.61	1.53
1	bq	187	GLU	CA-C	6.28	1.60	1.52
1	cP	37	ILE	CA-C	6.28	1.57	1.52
1	cS	96	MET	CA-CB	6.28	1.61	1.53
1	cS	115	ILE	C-N	6.28	1.41	1.33
1	dx	143	ARG	NE-CZ	6.28	1.40	1.33
1	fQ	85	PRO	C-N	6.28	1.42	1.33
1	1	4	GLN	CA-CB	6.28	1.62	1.53
1	Q	14	ALA	C-N	6.28	1.42	1.33
1	gi	193	ASN	N-CA	-6.28	1.39	1.46
1	hr	187	GLU	CA-CB	6.28	1.64	1.53
1	hK	149	SER	CA-C	6.28	1.60	1.52
1	i1	72	THR	CA-CB	6.28	1.63	1.53
1	i9	116	GLY	CA-C	6.28	1.58	1.52
1	ib	206	GLY	C-O	-6.28	1.15	1.24
1	24	139	ASN	CA-C	6.28	1.60	1.52
1	lf	125	PRO	CA-C	6.28	1.58	1.53
1	lr	221	VAL	C-N	6.28	1.41	1.33
1	2H	14	ALA	CA-C	6.28	1.60	1.52
1	3p	18	ARG	CZ-NH1	-6.28	1.24	1.32
1	44	151	LEU	C-N	6.28	1.42	1.33
1	4d	182	LYS	C-N	6.28	1.42	1.33
1	4v	121	ASN	CA-C	6.28	1.57	1.52
1	4O	183	ASN	CA-CB	6.28	1.63	1.53
1	59	183	ASN	CA-C	6.28	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5I	167	ARG	CD-NE	6.28	1.55	1.46
1	5R	109	SER	CA-C	-6.28	1.44	1.52
1	6r	218	CYS	CA-C	6.28	1.60	1.52
1	6v	46	GLY	N-CA	6.28	1.54	1.45
1	7k	144	MET	CA-CB	6.28	1.63	1.53
1	9H	150	ILE	C-O	-6.28	1.18	1.24
1	9T	198	CYS	N-CA	6.28	1.54	1.46
1	9T	201	ILE	C-N	-6.28	1.25	1.33
1	9U	155	GLN	CA-CB	6.28	1.62	1.53
1	a1	34	PRO	CA-CB	6.28	1.62	1.53
1	av	23	TRP	N-CA	-6.28	1.38	1.46
1	bn	52	LEU	CA-CB	6.28	1.63	1.53
1	bs	10	MET	CA-C	-6.28	1.44	1.52
1	cV	125	PRO	C-N	6.28	1.41	1.33
1	en	129	ILE	CA-C	6.28	1.60	1.52
1	eV	207	PRO	C-O	-6.28	1.15	1.24
1	fX	209	ALA	C-N	6.28	1.41	1.33
1	0	74	ASN	C-N	6.28	1.42	1.33
1	Q	134	ILE	C-N	6.28	1.41	1.33
1	ix	144	MET	C-N	6.28	1.41	1.33
1	iB	116	GLY	CA-C	-6.28	1.43	1.51
1	j7	51	ASP	C-O	-6.28	1.16	1.24
1	kg	143	ARG	N-CA	-6.28	1.39	1.46
1	2p	229	ARG	CA-CB	6.28	1.63	1.53
1	2S	192	GLN	C-N	6.28	1.42	1.33
1	2Z	2	ILE	CA-C	6.28	1.60	1.52
1	3K	70	LYS	C-O	-6.28	1.16	1.24
1	3M	206	GLY	CA-C	6.28	1.60	1.51
1	5p	13	GLN	CA-C	-6.28	1.45	1.52
1	6K	12	HIS	CG-ND1	6.28	1.45	1.38
1	7T	174	ALA	CA-C	6.28	1.61	1.52
1	8s	93	PRO	N-CA	6.28	1.55	1.47
1	9H	157	PRO	N-CA	6.28	1.54	1.47
1	ag	107	THR	C-N	6.28	1.42	1.33
1	ar	169	TYR	C-N	6.28	1.42	1.34
1	av	64	ALA	CA-C	-6.28	1.44	1.52
1	c8	25	LYS	C-O	-6.28	1.16	1.24
1	1g	179	GLN	CA-CB	6.28	1.63	1.53
1	1w	94	GLY	CA-C	-6.28	1.42	1.51
1	r	218	CYS	CA-C	-6.28	1.46	1.53
1	2	184	TRP	C-N	6.28	1.42	1.33
1	z	168	PHE	N-CA	6.28	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	100	ARG	CD-NE	6.28	1.55	1.46
1	gE	154	ARG	CD-NE	6.28	1.55	1.46
1	ig	180	GLU	CA-CB	6.28	1.63	1.53
1	ir	183	ASN	CA-C	6.28	1.61	1.52
1	jc	37	ILE	N-CA	6.28	1.54	1.46
1	1X	124	ILE	N-CA	-6.28	1.38	1.46
1	kI	37	ILE	CA-C	6.28	1.59	1.52
1	kT	180	GLU	CA-C	6.28	1.60	1.52
1	l5	11	VAL	CA-CB	-6.28	1.46	1.54
1	li	190	LEU	CA-CB	6.28	1.63	1.53
1	2a	148	THR	C-N	6.28	1.42	1.33
1	2b	4	GLN	N-CA	6.28	1.53	1.46
1	3o	179	GLN	CA-CB	6.28	1.63	1.53
1	4x	83	LEU	N-CA	-6.28	1.38	1.46
1	4J	168	PHE	CA-C	6.28	1.60	1.52
1	5U	48	THR	CA-CB	-6.28	1.43	1.53
1	64	137	GLY	C-N	6.28	1.42	1.34
1	6a	93	PRO	C-N	6.28	1.43	1.33
1	6d	41	SER	N-CA	6.28	1.53	1.46
1	6p	139	ASN	CA-C	-6.28	1.44	1.52
1	6p	194	ALA	C-N	6.28	1.42	1.33
1	6T	223	GLY	N-CA	6.28	1.51	1.43
1	6Z	112	GLN	N-CA	6.28	1.53	1.46
1	8b	123	PRO	CA-CB	6.28	1.62	1.53
1	8b	165	VAL	N-CA	6.28	1.54	1.46
1	8j	154	ARG	N-CA	6.28	1.53	1.46
1	8u	202	LEU	N-CA	-6.28	1.38	1.46
1	8S	189	LEU	CA-C	6.28	1.60	1.52
1	96	200	THR	N-CA	6.28	1.53	1.46
1	9K	216	THR	CA-C	-6.28	1.44	1.52
1	a6	168	PHE	CA-CB	6.28	1.63	1.53
1	aE	21	ASN	CA-CB	6.28	1.63	1.53
1	bl	59	VAL	C-O	-6.28	1.17	1.24
1	bC	221	VAL	CA-C	6.28	1.60	1.52
1	c6	41	SER	CA-C	6.28	1.61	1.52
1	ck	78	ALA	CA-C	6.28	1.60	1.52
1	cm	185	MET	CA-C	6.28	1.60	1.52
1	cX	182	LYS	CA-CB	6.28	1.63	1.53
1	dj	163	ASP	CA-C	6.28	1.61	1.52
1	ds	26	VAL	CA-C	6.28	1.60	1.52
1	1n	102	SER	CA-CB	6.28	1.63	1.53
1	1o	62	HIS	CE1-NE2	6.28	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ea	168	PHE	N-CA	6.28	1.54	1.46
1	eh	194	ALA	N-CA	-6.28	1.38	1.45
1	eo	181	VAL	CA-CB	-6.28	1.47	1.54
1	eX	29	GLU	N-CA	6.28	1.54	1.46
1	e	125	PRO	C-N	6.28	1.41	1.34
1	C	121	ASN	C-O	-6.28	1.20	1.25
1	K	191	VAL	CA-CB	-6.28	1.47	1.54
1	gz	180	GLU	N-CA	-6.28	1.38	1.46
1	ha	156	GLY	N-CA	6.28	1.53	1.44
1	io	223	GLY	N-CA	6.28	1.53	1.44
1	iJ	26	VAL	CA-C	6.28	1.60	1.52
1	j0	213	GLU	CA-CB	6.28	1.63	1.53
1	jb	116	GLY	C-N	6.28	1.42	1.33
1	lv	15	ILE	C-N	6.28	1.42	1.33
1	37	16	SER	C-N	6.28	1.39	1.33
1	3e	69	LEU	CA-CB	6.28	1.63	1.53
1	3I	90	PRO	CA-CB	6.28	1.62	1.53
1	3O	208	ALA	N-CA	-6.28	1.38	1.46
1	3Y	11	VAL	CA-CB	-6.28	1.46	1.54
1	4E	200	THR	C-N	6.28	1.41	1.33
1	4M	61	GLY	N-CA	6.28	1.50	1.44
1	4W	218	CYS	CA-CB	6.28	1.62	1.53
1	5L	42	ALA	CA-C	6.28	1.61	1.52
1	5Y	62	HIS	CA-C	6.28	1.61	1.53
1	6w	57	ASN	C-N	6.28	1.42	1.33
1	72	84	HIS	CD2-NE2	6.28	1.44	1.37
1	7w	153	ILE	CA-C	6.28	1.60	1.53
1	7y	11	VAL	CA-CB	-6.28	1.46	1.54
1	8b	93	PRO	CA-CB	6.28	1.62	1.53
1	8D	135	ILE	N-CA	-6.28	1.38	1.46
1	8O	142	VAL	N-CA	6.28	1.53	1.46
1	9j	67	GLN	CA-CB	6.28	1.63	1.53
1	9o	62	HIS	CA-C	-6.28	1.45	1.53
1	9v	100	ARG	CD-NE	6.28	1.55	1.46
1	at	147	PRO	CA-CB	6.28	1.61	1.53
1	14	16	SER	CA-C	-6.28	1.46	1.53
1	14	161	PHE	CG-CD2	6.28	1.52	1.38
1	bH	62	HIS	N-CA	6.28	1.55	1.46
1	cB	25	LYS	N-CA	-6.28	1.39	1.46
1	dn	125	PRO	CA-C	6.28	1.58	1.53
1	dz	64	ALA	CA-CB	6.28	1.63	1.53
1	dV	11	VAL	C-N	6.28	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ec	52	LEU	CB-CG	6.28	1.66	1.53
1	eO	113	GLU	CA-CB	6.28	1.63	1.53
1	f2	146	SER	C-O	-6.28	1.21	1.23
1	f8	79	GLU	C-N	6.28	1.42	1.33
1	fd	7	GLN	CA-CB	6.28	1.62	1.54
1	fv	168	PHE	C-N	6.28	1.42	1.33
1	fG	64	ALA	CA-C	6.28	1.60	1.52
1	fZ	157	PRO	CA-C	-6.28	1.42	1.52
1	I	98	GLU	CA-C	6.28	1.60	1.53
1	S	133	TRP	CA-C	6.28	1.60	1.52
1	hH	35	GLU	CA-CB	6.27	1.63	1.53
1	iZ	164	TYR	CA-CB	6.27	1.63	1.53
1	kO	13	GLN	C-N	6.27	1.41	1.33
1	2V	121	ASN	CA-CB	6.27	1.61	1.53
1	5L	141	ILE	C-N	6.27	1.41	1.33
1	7u	195	ASN	CA-C	6.27	1.59	1.53
1	7B	48	THR	CA-CB	6.27	1.63	1.53
1	7V	179	GLN	CA-C	6.27	1.61	1.52
1	8s	68	MET	CA-CB	6.27	1.63	1.53
1	91	194	ALA	CA-CB	6.27	1.62	1.53
1	9E	33	SER	CA-CB	6.27	1.63	1.54
1	9F	53	ASN	CA-C	-6.27	1.44	1.52
1	aj	120	HIS	CE1-NE2	6.27	1.38	1.32
1	aA	131	LYS	CA-CB	6.27	1.63	1.53
1	aN	91	ILE	N-CA	-6.27	1.38	1.46
1	bK	96	MET	CA-C	-6.27	1.44	1.52
1	cp	195	ASN	CA-CB	6.27	1.63	1.53
1	cr	220	GLY	C-N	6.27	1.41	1.33
1	di	84	HIS	CB-CG	6.27	1.58	1.50
1	f7	92	GLU	N-CA	-6.27	1.39	1.46
1	fy	162	ARG	CA-C	-6.27	1.44	1.52
1	fE	72	THR	C-N	6.27	1.41	1.33
1	g9	230	VAL	CA-C	6.27	1.59	1.52
1	1H	12	HIS	ND1-CE1	6.27	1.38	1.32
1	hd	130	TYR	N-CA	-6.27	1.38	1.46
1	hG	195	ASN	CA-CB	6.27	1.62	1.53
1	hT	80	TRP	CA-CB	6.27	1.63	1.53
1	iR	106	GLY	C-N	6.27	1.41	1.33
1	j5	62	HIS	CA-C	-6.27	1.47	1.53
1	jd	1	PRO	N-CD	6.27	1.56	1.47
1	jz	75	GLU	N-CA	-6.27	1.38	1.46
1	1Z	63	GLN	N-CA	-6.27	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lv	203	LYS	C-N	6.27	1.42	1.33
1	3b	215	MET	N-CA	-6.27	1.37	1.46
1	3z	22	ALA	CA-C	6.27	1.60	1.52
1	40	39	MET	N-CA	-6.27	1.38	1.46
1	44	12	HIS	CE1-NE2	6.27	1.38	1.32
1	4H	129	ILE	CA-C	6.27	1.60	1.52
1	4H	212	GLU	CA-C	-6.27	1.44	1.52
1	57	135	ILE	CA-C	-6.27	1.45	1.52
1	5u	97	ARG	CD-NE	6.27	1.55	1.46
1	5D	36	VAL	N-CA	-6.27	1.39	1.46
1	6o	16	SER	CA-C	6.27	1.60	1.53
1	7z	199	LYS	CA-C	6.27	1.61	1.52
1	8n	226	HIS	ND1-CE1	6.27	1.38	1.32
1	8v	21	ASN	CA-C	6.27	1.60	1.52
1	9n	117	TRP	NE1-CE2	-6.27	1.30	1.37
1	a1	120	HIS	C-N	6.27	1.41	1.33
1	at	182	LYS	CA-CB	6.27	1.63	1.53
1	bq	88	ALA	CA-C	6.27	1.60	1.52
1	bA	226	HIS	ND1-CE1	6.27	1.38	1.32
1	c8	140	LYS	CA-CB	6.27	1.63	1.53
1	cB	211	LEU	CA-CB	6.27	1.63	1.53
1	dW	153	ILE	N-CA	-6.27	1.38	1.46
1	ed	184	TRP	CA-C	6.27	1.60	1.52
1	ee	142	VAL	CA-CB	6.27	1.60	1.54
1	g7	187	GLU	CA-CB	6.27	1.63	1.53
1	e	124	ILE	CA-CB	-6.27	1.47	1.53
1	1	84	HIS	CA-C	6.27	1.60	1.52
1	D	120	HIS	ND1-CE1	6.27	1.38	1.32
1	4	169	TYR	CA-CB	6.27	1.63	1.53
1	1K	200	THR	C-N	6.27	1.41	1.33
1	1L	144	MET	CA-CB	6.27	1.63	1.53
1	hQ	69	LEU	CA-C	-6.27	1.43	1.52
1	i2	120	HIS	CB-CG	6.27	1.58	1.50
1	iB	53	ASN	CA-CB	6.27	1.63	1.53
1	jg	131	LYS	CA-C	6.27	1.61	1.52
1	jM	1	PRO	N-CA	6.27	1.56	1.47
1	lb	37	ILE	C-N	6.27	1.41	1.34
1	lp	58	THR	C-N	6.27	1.39	1.33
1	2f	143	ARG	N-CA	-6.27	1.38	1.46
1	35	189	LEU	N-CA	-6.27	1.38	1.46
1	3N	40	PHE	CA-C	6.27	1.60	1.52
1	4W	16	SER	C-N	-6.27	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	57	104	ILE	CA-CB	6.27	1.62	1.54
1	5Y	188	THR	CA-C	-6.27	1.46	1.52
1	8M	147	PRO	CA-C	6.27	1.61	1.52
1	8R	206	GLY	CA-C	6.27	1.60	1.51
1	9W	173	ARG	CA-CB	6.27	1.63	1.53
1	ci	24	VAL	N-CA	-6.27	1.38	1.46
1	d0	27	VAL	CA-C	-6.27	1.44	1.52
1	d0	159	GLU	CA-C	6.27	1.59	1.53
1	dC	219	GLN	C-N	6.27	1.42	1.33
1	ex	14	ALA	CA-C	-6.27	1.44	1.52
1	gF	160	PRO	CA-C	-6.27	1.43	1.52
1	1F	145	TYR	CA-CB	6.27	1.63	1.53
1	hC	129	ILE	CA-CB	-6.27	1.47	1.54
1	hC	134	ILE	C-O	-6.27	1.17	1.24
1	i8	219	GLN	N-CA	6.27	1.53	1.46
1	iv	12	HIS	ND1-CE1	6.27	1.38	1.32
1	ja	42	ALA	C-N	6.27	1.42	1.33
1	ji	64	ALA	CA-CB	6.27	1.63	1.53
1	jN	25	LYS	CA-CB	6.27	1.63	1.53
1	k8	3	VAL	C-O	-6.27	1.17	1.24
1	ka	51	ASP	N-CA	-6.27	1.38	1.46
1	kV	5	ASN	N-CA	-6.27	1.38	1.46
1	kV	72	THR	CA-C	-6.27	1.44	1.52
1	lQ	103	ASP	CA-C	6.27	1.61	1.52
1	2J	51	ASP	N-CA	-6.27	1.38	1.46
1	3n	191	VAL	CA-C	6.27	1.60	1.52
1	3O	38	PRO	CA-CB	6.27	1.62	1.53
1	4e	11	VAL	C-O	-6.27	1.17	1.24
1	4C	203	LYS	N-CA	-6.27	1.38	1.46
1	4L	102	SER	C-N	6.27	1.41	1.33
1	4Z	82	ARG	CD-NE	6.27	1.55	1.46
1	5C	37	ILE	CA-CB	-6.27	1.49	1.53
1	5K	35	GLU	N-CA	-6.27	1.37	1.46
1	62	50	GLN	CA-C	6.27	1.60	1.52
1	6A	216	THR	CA-C	6.27	1.60	1.52
1	6Q	62	HIS	CE1-NE2	6.27	1.38	1.32
1	8o	24	VAL	N-CA	6.27	1.53	1.46
1	8p	218	CYS	CA-CB	6.27	1.62	1.53
1	99	26	VAL	N-CA	6.27	1.53	1.46
1	aI	130	TYR	C-N	6.27	1.42	1.33
1	aN	67	GLN	C-N	6.27	1.41	1.33
1	bh	3	VAL	CA-C	-6.27	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cc	171	THR	CA-C	6.27	1.60	1.52
1	cN	27	VAL	CA-CB	-6.27	1.47	1.54
1	cS	121	ASN	C-O	-6.27	1.17	1.25
1	cT	99	PRO	CA-C	6.27	1.60	1.52
1	cX	206	GLY	C-N	-6.27	1.27	1.34
1	d8	223	GLY	N-CA	6.27	1.51	1.43
1	1j	117	TRP	CA-C	6.27	1.61	1.52
1	do	77	ALA	C-N	6.27	1.41	1.33
1	eB	82	ARG	CA-CB	6.27	1.63	1.53
1	ff	100	ARG	CZ-NH2	-6.27	1.25	1.33
1	fi	116	GLY	N-CA	6.27	1.53	1.45
1	1x	66	MET	CA-C	-6.27	1.44	1.52
1	fw	12	HIS	ND1-CE1	6.27	1.38	1.32
1	fS	192	GLN	CA-C	6.27	1.60	1.52
1	l	211	LEU	C-N	6.27	1.42	1.33
1	w	167	ARG	N-CA	-6.27	1.38	1.46
1	S	192	GLN	CA-CB	6.27	1.63	1.53
1	gy	109	SER	CA-C	-6.27	1.45	1.52
1	hn	136	LEU	CB-CG	6.27	1.66	1.53
1	1L	98	GLU	C-N	6.27	1.41	1.33
1	hM	153	ILE	C-N	6.27	1.41	1.33
1	hY	226	HIS	CG-CD2	6.27	1.42	1.35
1	i1	197	ASP	CA-C	6.27	1.60	1.52
1	ic	84	HIS	C-O	6.27	1.30	1.24
1	jh	112	GLN	C-N	6.27	1.42	1.33
1	jv	55	MET	CA-C	6.27	1.60	1.52
1	jZ	167	ARG	CA-C	6.27	1.60	1.52
1	kl	3	VAL	C-N	6.27	1.42	1.33
1	kK	109	SER	CA-C	-6.27	1.45	1.52
1	le	80	TRP	CG-CD2	6.27	1.55	1.43
1	2c	124	ILE	CA-CB	6.27	1.60	1.53
1	44	87	HIS	ND1-CE1	6.27	1.38	1.32
1	4L	226	HIS	C-N	6.27	1.41	1.33
1	5H	132	ARG	CD-NE	6.27	1.55	1.46
1	6d	226	HIS	CB-CG	6.27	1.58	1.50
1	7U	28	GLU	N-CA	-6.27	1.38	1.46
1	8o	230	VAL	CA-C	6.27	1.61	1.52
1	8Z	183	ASN	C-N	6.27	1.42	1.33
1	9B	211	LEU	CA-CB	6.27	1.63	1.53
1	a1	16	SER	N-CA	6.27	1.54	1.46
1	ab	40	PHE	N-CA	-6.27	1.38	1.46
1	ap	72	THR	N-CA	6.27	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aF	18	ARG	CD-NE	6.27	1.55	1.46
1	aO	226	HIS	ND1-CE1	6.27	1.38	1.32
1	bz	19	THR	CA-C	-6.27	1.44	1.52
1	ci	140	LYS	C-N	6.27	1.41	1.33
1	dx	11	VAL	CA-C	-6.27	1.45	1.52
1	dD	121	ASN	CA-C	-6.27	1.46	1.52
1	dQ	1	PRO	C-N	6.27	1.41	1.33
1	ea	182	LYS	CA-C	-6.27	1.44	1.52
1	f2	224	PRO	CA-C	6.27	1.61	1.52
1	f9	128	GLU	N-CA	6.27	1.53	1.46
1	fx	23	TRP	N-CA	6.27	1.53	1.46
1	fy	87	HIS	CD2-NE2	6.27	1.44	1.37
1	fP	81	ASP	N-CA	-6.27	1.38	1.46
1	z	191	VAL	C-N	6.27	1.42	1.33
1	gd	223	GLY	C-N	6.27	1.42	1.33
1	h9	76	GLU	N-CA	6.27	1.54	1.46
1	hS	50	GLN	CA-C	-6.27	1.44	1.52
1	hX	165	VAL	CA-C	-6.27	1.45	1.52
1	i2	49	PRO	CA-CB	-6.27	1.45	1.53
1	j1	52	LEU	CA-C	6.27	1.61	1.52
1	jE	69	LEU	CA-C	-6.27	1.44	1.52
1	48	160	PRO	N-CA	-6.27	1.39	1.47
1	53	218	CYS	CA-C	-6.27	1.44	1.52
1	5a	213	GLU	CA-CB	6.27	1.63	1.53
1	72	59	VAL	CA-C	-6.27	1.45	1.52
1	aD	124	ILE	CA-C	6.27	1.58	1.53
1	aS	117	TRP	N-CA	-6.27	1.38	1.46
1	aZ	205	LEU	N-CA	-6.27	1.38	1.46
1	b9	100	ARG	CD-NE	6.27	1.55	1.46
1	bh	73	ILE	CA-C	6.27	1.60	1.52
1	d3	59	VAL	CA-C	6.27	1.60	1.52
1	ep	224	PRO	C-N	6.27	1.43	1.33
1	er	145	TYR	CA-CB	6.27	1.61	1.53
1	eL	159	GLU	C-N	6.27	1.40	1.33
1	fK	72	THR	CA-C	6.27	1.61	1.52
1	D	77	ALA	N-CA	-6.27	1.39	1.46
1	O	77	ALA	CA-CB	6.27	1.63	1.53
1	gt	24	VAL	N-CA	-6.26	1.38	1.46
1	gB	110	THR	CA-C	6.26	1.61	1.53
1	gK	179	GLN	CA-CB	6.26	1.63	1.53
1	gQ	52	LEU	C-O	-6.26	1.16	1.24
1	i1	151	LEU	CA-C	6.26	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ir	204	ALA	N-CA	-6.26	1.37	1.46
1	j2	191	VAL	C-N	-6.26	1.25	1.33
1	1X	23	TRP	NE1-CE2	6.26	1.44	1.37
1	jL	42	ALA	N-CA	-6.26	1.38	1.46
1	kb	213	GLU	C-N	6.26	1.41	1.33
1	kE	164	TYR	CA-C	6.26	1.60	1.52
1	kJ	221	VAL	C-N	6.26	1.41	1.33
1	kQ	14	ALA	C-N	6.26	1.41	1.33
1	la	23	TRP	CA-C	6.26	1.60	1.52
1	lh	218	CYS	CA-C	-6.26	1.43	1.52
1	lu	91	ILE	CA-C	-6.26	1.44	1.52
1	lx	104	ILE	CA-C	-6.26	1.44	1.52
1	lR	109	SER	CA-C	6.26	1.60	1.52
1	2w	12	HIS	CG-ND1	6.26	1.45	1.38
1	2x	129	ILE	CA-CB	6.26	1.61	1.54
1	2A	214	MET	CA-CB	6.26	1.63	1.53
1	2W	12	HIS	ND1-CE1	6.26	1.38	1.32
1	3D	19	THR	CA-CB	6.26	1.63	1.53
1	3H	210	THR	CA-C	-6.26	1.45	1.52
1	3L	212	GLU	CA-CB	6.26	1.63	1.53
1	47	106	GLY	CA-C	6.26	1.59	1.51
1	4q	95	GLN	CA-C	6.26	1.60	1.52
1	4x	208	ALA	C-N	6.26	1.42	1.33
1	4S	7	GLN	CA-CB	6.26	1.63	1.53
1	54	100	ARG	CA-CB	6.26	1.63	1.53
1	5j	14	ALA	N-CA	-6.26	1.38	1.46
1	5Q	12	HIS	CD2-NE2	6.26	1.44	1.37
1	6d	71	GLU	CA-CB	6.26	1.63	1.53
1	6u	19	THR	CA-C	-6.26	1.44	1.52
1	6C	219	GLN	C-N	6.26	1.41	1.33
1	6F	40	PHE	CA-CB	6.26	1.63	1.53
1	6U	84	HIS	ND1-CE1	6.26	1.38	1.32
1	79	18	ARG	NE-CZ	6.26	1.40	1.33
1	7d	100	ARG	C-N	6.26	1.42	1.33
1	7v	212	GLU	CA-C	6.26	1.60	1.52
1	7E	124	ILE	N-CA	-6.26	1.40	1.46
1	7L	203	LYS	C-O	-6.26	1.16	1.24
1	7S	84	HIS	ND1-CE1	6.26	1.38	1.32
1	7T	96	MET	N-CA	6.26	1.54	1.46
1	7T	211	LEU	CA-C	-6.26	1.44	1.52
1	8b	78	ALA	C-N	6.26	1.42	1.33
1	8s	170	LYS	CA-CB	6.26	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8Y	177	ALA	N-CA	6.26	1.54	1.46
1	aN	207	PRO	N-CA	-6.26	1.39	1.47
1	aR	130	TYR	CA-CB	6.26	1.63	1.53
1	16	4	GLN	CA-CB	6.26	1.61	1.53
1	16	226	HIS	CD2-NE2	-6.26	1.30	1.37
1	bj	14	ALA	C-N	6.26	1.41	1.33
1	bP	15	ILE	N-CA	6.26	1.54	1.46
1	bP	104	ILE	N-CA	6.26	1.53	1.46
1	c9	206	GLY	C-N	6.26	1.40	1.34
1	cW	12	HIS	CB-CG	6.26	1.58	1.50
1	dM	74	ASN	C-N	6.26	1.41	1.33
1	dZ	41	SER	CA-CB	6.26	1.63	1.53
1	ef	120	HIS	N-CA	-6.26	1.37	1.45
1	eg	47	ALA	N-CA	-6.26	1.38	1.46
1	eB	13	GLN	N-CA	6.26	1.53	1.46
1	eB	29	GLU	CA-C	-6.26	1.44	1.52
1	eG	27	VAL	CA-C	6.26	1.60	1.52
1	eP	17	PRO	CA-C	6.26	1.62	1.52
1	fE	96	MET	N-CA	6.26	1.54	1.46
1	fR	91	ILE	CA-C	-6.26	1.45	1.52
1	a	25	LYS	CA-C	6.26	1.61	1.52
1	L	11	VAL	CA-CB	-6.26	1.46	1.54
1	gA	23	TRP	CA-CB	6.26	1.63	1.53
1	hC	155	GLN	N-CA	6.26	1.54	1.46
1	jr	188	THR	C-N	6.26	1.42	1.33
1	k1	156	GLY	C-N	6.26	1.41	1.34
1	l7	22	ALA	CA-C	-6.26	1.44	1.52
1	lt	209	ALA	N-CA	-6.26	1.38	1.46
1	2P	140	LYS	CA-CB	6.26	1.63	1.53
1	5d	113	GLU	CA-CB	6.26	1.63	1.53
1	6b	153	ILE	C-O	-6.26	1.17	1.24
1	6t	154	ARG	CZ-NH2	6.26	1.41	1.33
1	6G	1	PRO	N-CD	6.26	1.56	1.47
1	6N	87	HIS	CG-ND1	6.26	1.45	1.38
1	7C	158	LYS	CA-C	6.26	1.60	1.52
1	7T	190	LEU	C-N	6.26	1.41	1.33
1	8L	19	THR	N-CA	6.26	1.53	1.46
1	8S	46	GLY	N-CA	6.26	1.53	1.45
1	94	96	MET	CA-C	6.26	1.59	1.52
1	dQ	101	GLY	CA-C	-6.26	1.43	1.51
1	eh	7	GLN	CA-CB	6.26	1.64	1.53
1	eI	144	MET	CA-C	-6.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	12	HIS	ND1-CE1	6.26	1.38	1.32
1	gw	99	PRO	C-O	-6.26	1.17	1.23
1	gC	184	TRP	CA-CB	6.26	1.63	1.53
1	gY	88	ALA	C-N	6.26	1.42	1.33
1	hF	22	ALA	N-CA	-6.26	1.38	1.46
1	hO	209	ALA	CA-CB	6.26	1.64	1.53
1	j8	109	SER	C-N	6.26	1.41	1.33
1	jE	28	GLU	N-CA	-6.26	1.38	1.46
1	jG	123	PRO	C-N	6.26	1.39	1.33
1	kb	1	PRO	C-N	6.26	1.41	1.33
1	kt	161	PHE	N-CA	-6.26	1.38	1.46
1	kx	173	ARG	CD-NE	6.26	1.55	1.46
1	24	87	HIS	CD2-NE2	6.26	1.44	1.37
1	kV	161	PHE	N-CA	6.26	1.54	1.46
1	lo	70	LYS	CA-CB	6.26	1.63	1.53
1	2d	191	VAL	N-CA	6.26	1.53	1.46
1	2d	214	MET	N-CA	-6.26	1.38	1.46
1	2B	21	ASN	CA-C	6.26	1.60	1.52
1	2S	160	PRO	N-CA	-6.26	1.39	1.47
1	2U	161	PHE	CA-C	6.26	1.60	1.52
1	3f	90	PRO	N-CA	6.26	1.54	1.47
1	4x	50	GLN	CA-CB	6.26	1.63	1.53
1	4x	65	ALA	CA-C	6.26	1.61	1.52
1	6M	121	ASN	CA-C	-6.26	1.46	1.52
1	77	27	VAL	CA-C	6.26	1.60	1.52
1	7j	120	HIS	ND1-CE1	6.26	1.38	1.32
1	7t	70	LYS	CA-CB	6.26	1.63	1.53
1	7y	106	GLY	CA-C	-6.26	1.43	1.51
1	7I	131	LYS	CA-CB	6.26	1.63	1.53
1	7M	108	THR	N-CA	6.26	1.54	1.46
1	88	203	LYS	N-CA	-6.26	1.38	1.46
1	8K	210	THR	CA-C	-6.26	1.44	1.53
1	b1	163	ASP	N-CA	-6.26	1.38	1.46
1	c0	23	TRP	C-N	6.26	1.41	1.33
1	cd	144	MET	CA-CB	6.26	1.63	1.53
1	cC	89	GLY	N-CA	6.26	1.53	1.44
1	dF	73	ILE	CA-CB	-6.26	1.47	1.54
1	dK	226	HIS	CE1-NE2	6.26	1.38	1.32
1	eB	18	ARG	CZ-NH2	-6.26	1.25	1.33
1	fL	78	ALA	C-N	6.26	1.42	1.33
1	fR	79	GLU	CA-CB	6.26	1.63	1.53
1	d	48	THR	CA-CB	6.26	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f	11	VAL	N-CA	6.26	1.53	1.46
1	l	167	ARG	C-N	6.26	1.41	1.33
1	v	193	ASN	N-CA	-6.26	1.38	1.46
1	gj	62	HIS	CE1-NE2	6.26	1.38	1.32
1	hk	90	PRO	CA-C	-6.26	1.43	1.52
1	hZ	226	HIS	CE1-NE2	-6.26	1.26	1.32
1	ib	184	TRP	CA-CB	6.26	1.63	1.53
1	ig	229	ARG	C-N	6.26	1.39	1.33
1	iH	98	GLU	CA-CB	6.26	1.62	1.53
1	jJ	227	LYS	CA-CB	6.26	1.64	1.53
1	k9	218	CYS	CA-CB	6.26	1.62	1.53
1	ly	134	ILE	C-N	6.26	1.41	1.33
1	lA	117	TRP	NE1-CE2	-6.26	1.30	1.37
1	3q	82	ARG	CD-NE	6.26	1.55	1.46
1	3q	163	ASP	CA-C	-6.26	1.44	1.52
1	3J	72	THR	N-CA	-6.26	1.39	1.46
1	3V	209	ALA	C-N	6.26	1.41	1.33
1	47	167	ARG	C-O	-6.26	1.16	1.24
1	48	160	PRO	C-N	6.26	1.42	1.33
1	4Y	143	ARG	C-N	6.26	1.42	1.33
1	5l	192	GLN	N-CA	-6.26	1.39	1.46
1	5o	130	TYR	N-CA	6.26	1.53	1.46
1	5t	123	PRO	C-N	6.26	1.40	1.33
1	5L	37	ILE	CA-C	6.26	1.59	1.52
1	6p	118	MET	CA-C	6.26	1.61	1.52
1	6t	153	ILE	CA-CB	-6.26	1.46	1.54
1	6v	87	HIS	CD2-NE2	6.26	1.44	1.37
1	6S	84	HIS	CG-ND1	-6.26	1.31	1.38
1	7y	95	GLN	C-O	-6.26	1.16	1.24
1	85	186	THR	CA-C	6.26	1.60	1.52
1	8w	143	ARG	NE-CZ	-6.26	1.26	1.33
1	91	167	ARG	CD-NE	6.26	1.55	1.46
1	9m	62	HIS	CE1-NE2	6.26	1.38	1.32
1	11	84	HIS	ND1-CE1	6.26	1.38	1.32
1	aC	202	LEU	N-CA	-6.26	1.38	1.46
1	aN	125	PRO	CA-C	-6.26	1.47	1.53
1	aT	187	GLU	N-CA	-6.26	1.39	1.46
1	b4	120	HIS	ND1-CE1	6.26	1.38	1.32
1	bi	178	SER	C-N	6.26	1.42	1.33
1	bS	18	ARG	N-CA	6.26	1.53	1.46
1	bV	59	VAL	N-CA	6.26	1.54	1.46
1	cW	12	HIS	ND1-CE1	6.26	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dd	19	THR	N-CA	-6.26	1.39	1.46
1	dC	23	TRP	CA-CB	6.26	1.63	1.53
1	ei	164	TYR	N-CA	6.26	1.53	1.46
1	ej	151	LEU	CA-CB	6.26	1.62	1.53
1	eI	149	SER	CA-CB	6.26	1.63	1.53
1	eN	173	ARG	CD-NE	6.26	1.55	1.46
1	f6	79	GLU	CA-CB	6.26	1.63	1.53
1	fg	54	THR	C-N	6.26	1.41	1.33
1	fT	85	PRO	C-N	6.26	1.39	1.33
1	r	1	PRO	C-N	6.26	1.41	1.33
1	w	207	PRO	CA-C	6.26	1.61	1.52
1	H	140	LYS	C-N	6.26	1.41	1.33
1	7	73	ILE	CA-CB	6.26	1.61	1.54
1	gQ	27	VAL	CA-CB	-6.26	1.46	1.54
1	ik	206	GLY	CA-C	6.26	1.60	1.51
1	iy	98	GLU	CA-C	6.26	1.60	1.52
1	iz	90	PRO	C-N	6.26	1.40	1.33
1	iV	116	GLY	CA-C	-6.26	1.45	1.52
1	jB	105	ALA	C-N	6.26	1.42	1.33
1	k2	43	LEU	CA-C	6.26	1.61	1.52
1	kp	10	MET	C-N	6.26	1.42	1.33
1	kR	191	VAL	CA-CB	-6.26	1.46	1.54
1	6V	189	LEU	CA-C	6.26	1.60	1.52
1	9V	73	ILE	N-CA	-6.26	1.39	1.46
1	a4	200	THR	CA-C	-6.26	1.44	1.52
1	bZ	35	GLU	CA-C	6.26	1.61	1.52
1	c9	83	LEU	C-O	-6.26	1.16	1.24
1	cr	224	PRO	CA-C	6.26	1.61	1.52
1	d7	14	ALA	CA-C	6.26	1.60	1.52
1	eF	113	GLU	CA-CB	6.26	1.63	1.53
1	1y	230	VAL	CA-C	6.26	1.61	1.52
1	g0	151	LEU	CA-C	6.26	1.61	1.52
1	q	226	HIS	CB-CG	6.26	1.58	1.50
1	X	120	HIS	CD2-NE2	6.26	1.44	1.37
1	gd	124	ILE	CA-C	6.26	1.58	1.52
1	hc	40	PHE	CA-CB	6.26	1.63	1.53
1	hi	58	THR	C-N	6.26	1.41	1.33
1	hY	124	ILE	CA-CB	6.26	1.60	1.53
1	ib	150	ILE	C-N	6.26	1.43	1.33
1	js	83	LEU	CA-CB	6.26	1.63	1.53
1	1W	85	PRO	CA-C	6.26	1.58	1.52
1	kt	51	ASP	C-O	-6.26	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ky	38	PRO	CA-CB	6.26	1.62	1.53
1	3c	118	MET	N-CA	-6.26	1.37	1.46
1	3T	35	GLU	N-CA	6.26	1.54	1.46
1	4T	193	ASN	CA-C	6.26	1.61	1.52
1	4W	78	ALA	C-N	6.26	1.42	1.33
1	5o	228	ALA	CA-C	6.26	1.60	1.52
1	5x	139	ASN	CA-C	6.26	1.60	1.52
1	5G	211	LEU	C-N	6.26	1.42	1.33
1	5I	131	LYS	CA-CB	6.26	1.63	1.53
1	5V	127	GLY	N-CA	6.26	1.53	1.45
1	6n	228	ALA	CA-C	6.26	1.60	1.52
1	6w	35	GLU	N-CA	6.26	1.54	1.46
1	6x	88	ALA	C-N	6.26	1.42	1.33
1	6y	12	HIS	ND1-CE1	6.26	1.38	1.32
1	76	170	LYS	CA-C	6.26	1.60	1.52
1	7i	186	THR	CA-C	-6.26	1.44	1.52
1	7k	84	HIS	ND1-CE1	6.26	1.38	1.32
1	7l	97	ARG	CA-C	-6.26	1.44	1.52
1	9r	224	PRO	CA-C	6.26	1.60	1.52
1	bD	97	ARG	CD-NE	6.26	1.55	1.46
1	bJ	117	TRP	N-CA	-6.26	1.38	1.46
1	cx	74	ASN	CA-C	6.26	1.60	1.52
1	cI	158	LYS	CA-CB	6.26	1.62	1.53
1	d0	69	LEU	CA-CB	6.26	1.63	1.53
1	d1	226	HIS	CD2-NE2	6.26	1.44	1.37
1	e4	36	VAL	C-N	6.26	1.43	1.33
1	et	178	SER	CA-C	6.26	1.60	1.52
1	eC	82	ARG	CD-NE	6.26	1.55	1.46
1	f6	32	PHE	CA-C	-6.26	1.45	1.53
1	gJ	58	THR	N-CA	6.25	1.53	1.46
1	h7	84	HIS	CG-CD2	6.25	1.42	1.35
1	j0	63	GLN	C-N	6.25	1.42	1.33
1	jx	95	GLN	CA-C	6.25	1.60	1.52
1	jC	167	ARG	N-CA	-6.25	1.38	1.46
1	kc	84	HIS	C-N	6.25	1.41	1.33
1	kw	185	MET	CA-C	6.25	1.60	1.52
1	2q	66	MET	CA-C	6.25	1.60	1.52
1	2t	120	HIS	ND1-CE1	6.25	1.38	1.32
1	3P	30	LYS	CA-C	6.25	1.60	1.52
1	55	212	GLU	CA-CB	6.25	1.63	1.53
1	5k	195	ASN	CA-CB	6.25	1.62	1.53
1	5q	128	GLU	CA-C	-6.25	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6g	98	GLU	C-O	6.25	1.32	1.24
1	9o	127	GLY	C-N	6.25	1.42	1.33
1	ad	141	ILE	CA-C	6.25	1.60	1.52
1	aN	229	ARG	N-CA	-6.25	1.38	1.46
1	aR	71	GLU	N-CA	-6.25	1.39	1.46
1	b2	156	GLY	N-CA	6.25	1.53	1.44
1	b3	60	GLY	N-CA	6.25	1.53	1.45
1	bZ	202	LEU	C-N	6.25	1.41	1.33
1	cf	164	TYR	CA-C	6.25	1.61	1.52
1	cO	137	GLY	CA-C	-6.25	1.45	1.52
1	1i	70	LYS	N-CA	6.25	1.53	1.46
1	fp	16	SER	CA-C	6.25	1.60	1.52
1	gC	162	ARG	CA-C	6.25	1.60	1.52
1	gG	18	ARG	CD-NE	6.25	1.55	1.46
1	gI	135	ILE	C-O	-6.25	1.16	1.24
1	h1	12	HIS	CG-CD2	6.25	1.42	1.35
1	hB	129	ILE	CA-C	6.25	1.60	1.52
1	il	128	GLU	N-CA	-6.25	1.38	1.46
1	ip	134	ILE	CA-CB	-6.25	1.47	1.54
1	iK	134	ILE	CA-CB	6.25	1.61	1.54
1	jb	80	TRP	NE1-CE2	-6.25	1.30	1.37
1	jM	122	PRO	C-N	-6.25	1.25	1.33
1	jV	172	LEU	N-CA	-6.25	1.38	1.46
1	2M	184	TRP	CA-CB	6.25	1.63	1.53
1	2V	147	PRO	C-O	-6.25	1.15	1.24
1	33	171	THR	C-N	6.25	1.42	1.33
1	3q	203	LYS	CA-CB	6.25	1.63	1.53
1	3r	93	PRO	N-CA	-6.25	1.39	1.47
1	4F	53	ASN	C-N	6.25	1.42	1.33
1	4I	120	HIS	CG-ND1	6.25	1.45	1.38
1	4K	84	HIS	N-CA	-6.25	1.40	1.46
1	4M	91	ILE	CA-CB	6.25	1.61	1.54
1	5c	132	ARG	CZ-NH2	-6.25	1.25	1.33
1	5W	172	LEU	CA-C	-6.25	1.44	1.52
1	5Z	198	CYS	CA-C	6.25	1.61	1.52
1	79	180	GLU	CA-CB	6.25	1.63	1.53
1	7t	48	THR	CA-C	6.25	1.61	1.53
1	7t	64	ALA	C-N	6.25	1.42	1.33
1	7v	168	PHE	CA-CB	6.25	1.63	1.53
1	7G	123	PRO	C-N	6.25	1.38	1.33
1	7V	128	GLU	C-O	-6.25	1.16	1.24
1	8U	230	VAL	C-O	6.25	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9G	228	ALA	N-CA	6.25	1.54	1.46
1	9P	52	LEU	CA-C	6.25	1.61	1.52
1	ae	103	ASP	C-N	6.25	1.41	1.33
1	ae	203	LYS	CA-C	-6.25	1.44	1.52
1	ap	224	PRO	N-CA	6.25	1.54	1.47
1	aZ	212	GLU	CA-CB	6.25	1.63	1.53
1	ba	115	ILE	CA-CB	-6.25	1.47	1.54
1	bb	86	VAL	CA-CB	-6.25	1.47	1.54
1	cD	229	ARG	CD-NE	6.25	1.55	1.46
1	d3	163	ASP	C-N	6.25	1.41	1.33
1	dF	146	SER	CA-CB	6.25	1.63	1.53
1	eD	100	ARG	CA-CB	6.25	1.63	1.53
1	eD	198	CYS	N-CA	-6.25	1.38	1.46
1	eV	98	GLU	C-N	6.25	1.41	1.33
1	f9	62	HIS	CA-C	6.25	1.60	1.53
1	fF	129	ILE	N-CA	6.25	1.53	1.46
1	g3	147	PRO	CA-CB	-6.25	1.44	1.53
1	b	23	TRP	CA-CB	6.25	1.63	1.53
1	R	88	ALA	CA-C	6.25	1.60	1.52
1	gr	178	SER	CA-CB	6.25	1.64	1.53
1	gs	56	LEU	C-O	-6.25	1.16	1.24
1	gz	97	ARG	CD-NE	6.25	1.55	1.46
1	gO	77	ALA	N-CA	-6.25	1.38	1.46
1	hH	148	THR	C-N	6.25	1.41	1.33
1	hR	227	LYS	N-CA	6.25	1.54	1.45
1	im	4	GLN	CA-CB	6.25	1.64	1.53
1	io	125	PRO	C-O	-6.25	1.11	1.23
1	jB	51	ASP	CA-CB	6.25	1.63	1.53
1	20	123	PRO	N-CD	-6.25	1.39	1.47
1	26	88	ALA	N-CA	6.25	1.54	1.46
1	lf	159	GLU	CA-C	6.25	1.59	1.53
1	ln	183	ASN	CA-C	-6.25	1.44	1.52
1	lt	200	THR	CA-CB	6.25	1.63	1.53
1	2m	91	ILE	C-N	6.25	1.42	1.33
1	2y	193	ASN	C-N	6.25	1.41	1.33
1	2D	182	LYS	C-O	-6.25	1.16	1.24
1	46	202	LEU	CA-C	6.25	1.61	1.52
1	4S	168	PHE	N-CA	-6.25	1.39	1.46
1	5A	130	TYR	CA-CB	6.25	1.63	1.53
1	61	147	PRO	N-CA	-6.25	1.43	1.47
1	6w	95	GLN	CA-CB	6.25	1.64	1.53
1	6y	24	VAL	CA-C	-6.25	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6y	195	ASN	CA-C	6.25	1.59	1.53
1	6F	22	ALA	CA-C	6.25	1.60	1.52
1	7c	36	VAL	C-N	6.25	1.42	1.34
1	7f	108	THR	N-CA	-6.25	1.38	1.46
1	7C	204	ALA	C-N	6.25	1.42	1.33
1	7P	59	VAL	N-CA	-6.25	1.38	1.46
1	8a	91	ILE	CA-CB	6.25	1.61	1.54
1	8y	109	SER	C-N	6.25	1.42	1.33
1	8M	65	ALA	CA-C	6.25	1.60	1.52
1	8Q	170	LYS	CA-C	-6.25	1.44	1.52
1	9m	132	ARG	N-CA	6.25	1.53	1.46
1	9w	86	VAL	CA-C	6.25	1.59	1.52
1	9S	14	ALA	C-N	6.25	1.40	1.33
1	9Y	31	ALA	C-O	6.25	1.30	1.24
1	aL	123	PRO	CA-CB	6.25	1.61	1.53
1	b5	87	HIS	CB-CG	6.25	1.58	1.50
1	bj	101	GLY	CA-C	6.25	1.59	1.52
1	bp	191	VAL	CA-CB	-6.25	1.45	1.54
1	br	4	GLN	C-N	6.25	1.42	1.33
1	by	214	MET	C-N	6.25	1.41	1.33
1	cq	203	LYS	C-N	6.25	1.41	1.33
1	cF	131	LYS	CA-C	-6.25	1.44	1.52
1	dx	28	GLU	CA-CB	6.25	1.63	1.53
1	dB	62	HIS	CB-CG	6.25	1.58	1.50
1	dD	134	ILE	CA-CB	6.25	1.62	1.54
1	ek	178	SER	CA-CB	6.25	1.64	1.53
1	eD	1	PRO	N-CA	6.25	1.56	1.47
1	eI	123	PRO	CA-CB	-6.25	1.46	1.53
1	eJ	36	VAL	CA-CB	-6.25	1.46	1.54
1	eR	142	VAL	CA-CB	6.25	1.63	1.54
1	eV	124	ILE	N-CA	-6.25	1.40	1.46
1	f9	51	ASP	CA-C	6.25	1.60	1.52
1	f9	176	GLN	CA-CB	6.25	1.62	1.53
1	1v	30	LYS	CA-C	-6.25	1.44	1.52
1	fE	167	ARG	CD-NE	6.25	1.55	1.46
1	g0	71	GLU	CA-C	-6.25	1.44	1.52
1	H	113	GLU	N-CA	-6.25	1.38	1.46
1	i9	51	ASP	N-CA	-6.25	1.39	1.46
1	il	188	THR	CA-CB	6.25	1.63	1.53
1	jw	82	ARG	N-CA	6.25	1.54	1.46
1	ke	167	ARG	CA-C	6.25	1.60	1.52
1	2V	69	LEU	CA-C	-6.25	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5x	44	SER	CA-CB	6.25	1.63	1.53
1	5X	132	ARG	CD-NE	6.25	1.55	1.46
1	6i	215	MET	N-CA	6.25	1.54	1.46
1	7A	141	ILE	C-N	6.25	1.41	1.33
1	8d	16	SER	CA-C	6.25	1.60	1.53
1	9E	1	PRO	N-CA	6.25	1.56	1.47
1	aC	170	LYS	C-N	6.25	1.42	1.34
1	ba	67	GLN	N-CA	-6.25	1.38	1.46
1	bj	95	GLN	CA-CB	6.25	1.63	1.53
1	dy	24	VAL	C-N	6.25	1.41	1.33
1	1q	212	GLU	C-N	6.25	1.42	1.33
1	fu	168	PHE	N-CA	-6.25	1.38	1.46
1	g2	23	TRP	CA-CB	6.25	1.63	1.53
1	gF	130	TYR	CA-CB	6.25	1.63	1.53
1	hu	213	GLU	N-CA	-6.25	1.38	1.46
1	hI	141	ILE	CA-C	6.25	1.60	1.52
1	iU	47	ALA	CA-CB	6.25	1.63	1.53
1	k0	196	PRO	CA-C	6.25	1.61	1.52
1	kc	73	ILE	N-CA	6.25	1.54	1.46
1	kC	147	PRO	N-CD	-6.25	1.39	1.47
1	lq	40	PHE	N-CA	6.25	1.53	1.46
1	3y	140	LYS	CA-CB	6.25	1.63	1.53
1	4c	107	THR	CA-C	6.25	1.60	1.52
1	5d	192	GLN	CA-CB	6.25	1.63	1.53
1	5r	59	VAL	C-N	6.25	1.42	1.33
1	67	172	LEU	CB-CG	6.25	1.66	1.53
1	6s	36	VAL	CA-CB	-6.25	1.46	1.54
1	6t	71	GLU	N-CA	6.25	1.53	1.46
1	6U	30	LYS	C-N	6.25	1.42	1.34
1	76	168	PHE	C-O	-6.25	1.16	1.24
1	7U	177	ALA	CA-C	6.25	1.61	1.53
1	88	8	GLY	CA-C	6.25	1.60	1.52
1	9x	73	ILE	CA-CB	-6.25	1.45	1.54
1	bi	103	ASP	N-CA	-6.25	1.38	1.46
1	bl	202	LEU	CA-C	6.25	1.60	1.52
1	bo	7	GLN	N-CA	-6.25	1.38	1.46
1	bT	191	VAL	N-CA	6.25	1.54	1.46
1	c2	12	HIS	CA-CB	6.25	1.63	1.53
1	c2	49	PRO	N-CA	-6.25	1.39	1.47
1	ce	36	VAL	C-N	6.25	1.40	1.33
1	cg	172	LEU	CA-C	6.25	1.61	1.52
1	cj	91	ILE	CA-CB	-6.25	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cC	162	ARG	C-N	6.25	1.42	1.33
1	d7	184	TRP	NE1-CE2	-6.25	1.30	1.37
1	dn	202	LEU	CA-CB	6.25	1.63	1.53
1	dT	181	VAL	CA-C	6.25	1.60	1.52
1	eb	125	PRO	CA-C	6.25	1.58	1.53
1	ec	226	HIS	CE1-NE2	6.25	1.38	1.32
1	ep	229	ARG	CA-C	-6.25	1.45	1.52
1	eE	124	ILE	CA-C	6.25	1.58	1.53
1	g3	160	PRO	N-CD	-6.25	1.39	1.47
1	k	222	GLY	CA-C	-6.25	1.43	1.51
1	gl	207	PRO	CA-CB	6.25	1.64	1.53
1	hd	50	GLN	N-CA	6.25	1.53	1.46
1	hR	175	GLU	N-CA	-6.25	1.38	1.45
1	ij	122	PRO	CA-C	-6.25	1.46	1.52
1	il	37	ILE	N-CA	-6.25	1.39	1.46
1	ip	138	LEU	N-CA	-6.25	1.38	1.46
1	iG	5	ASN	CA-CB	6.25	1.62	1.53
1	iP	224	PRO	CA-C	6.25	1.59	1.52
1	j7	87	HIS	ND1-CE1	6.25	1.38	1.32
1	jk	102	SER	N-CA	6.25	1.54	1.46
1	jE	120	HIS	CA-C	6.25	1.61	1.53
1	jF	173	ARG	CA-C	-6.25	1.44	1.52
1	ki	55	MET	CA-CB	6.25	1.63	1.53
1	24	165	VAL	C-N	6.25	1.42	1.33
1	l2	18	ARG	CA-CB	6.25	1.63	1.53
1	l7	151	LEU	C-N	6.25	1.43	1.33
1	lb	72	THR	CA-C	-6.25	1.44	1.52
1	le	16	SER	N-CA	-6.25	1.36	1.45
1	lp	184	TRP	NE1-CE2	6.25	1.44	1.37
1	2h	137	GLY	C-O	-6.25	1.16	1.23
1	2A	62	HIS	CB-CG	6.25	1.58	1.50
1	44	95	GLN	CA-C	6.25	1.60	1.52
1	4m	82	ARG	CD-NE	6.25	1.54	1.46
1	4V	8	GLY	N-CA	6.25	1.51	1.45
1	4Y	216	THR	CA-C	6.25	1.60	1.53
1	58	123	PRO	C-N	6.25	1.40	1.33
1	5h	63	GLN	CA-C	-6.25	1.44	1.52
1	5G	229	ARG	NE-CZ	-6.25	1.26	1.33
1	5V	101	GLY	N-CA	-6.25	1.37	1.45
1	63	167	ARG	CD-NE	6.25	1.54	1.46
1	6l	65	ALA	N-CA	-6.25	1.38	1.46
1	6q	35	GLU	CA-CB	6.25	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6X	221	VAL	CA-CB	-6.25	1.45	1.54
1	8r	120	HIS	CG-ND1	-6.25	1.31	1.38
1	8s	49	PRO	N-CA	-6.25	1.39	1.47
1	8y	81	ASP	CA-C	-6.25	1.44	1.52
1	9v	64	ALA	C-N	6.25	1.41	1.33
1	9U	166	ASP	CA-CB	6.25	1.63	1.53
1	9Z	162	ARG	CD-NE	6.25	1.54	1.46
1	a2	95	GLN	C-N	6.25	1.42	1.33
1	a5	17	PRO	C-O	-6.25	1.16	1.24
1	ar	50	GLN	CA-CB	6.25	1.63	1.53
1	by	153	ILE	CA-CB	-6.25	1.46	1.54
1	bz	82	ARG	N-CA	-6.25	1.39	1.46
1	1a	161	PHE	CA-CB	6.25	1.63	1.53
1	1a	176	GLN	C-N	6.25	1.42	1.33
1	bQ	95	GLN	CA-C	6.25	1.60	1.52
1	co	31	ALA	CA-C	6.25	1.61	1.52
1	ds	142	VAL	CA-CB	6.25	1.62	1.54
1	e2	24	VAL	C-O	-6.25	1.16	1.24
1	ee	73	ILE	N-CA	6.25	1.54	1.46
1	eT	67	GLN	CA-CB	6.25	1.63	1.53
1	f4	44	SER	C-N	6.25	1.42	1.33
1	fr	199	LYS	CA-CB	6.25	1.63	1.53
1	fS	74	ASN	N-CA	-6.25	1.38	1.46
1	he	181	VAL	CA-CB	-6.25	1.47	1.54
1	jp	113	GLU	N-CA	6.25	1.53	1.46
1	1Y	210	THR	N-CA	6.25	1.53	1.45
1	kc	98	GLU	CA-C	-6.25	1.44	1.52
1	kL	128	GLU	CA-C	6.25	1.60	1.52
1	lJ	207	PRO	N-CD	6.25	1.56	1.47
1	lR	149	SER	CA-CB	6.25	1.64	1.53
1	3j	33	SER	CA-C	6.25	1.59	1.53
1	4F	150	ILE	N-CA	6.25	1.54	1.46
1	4M	134	ILE	CA-C	6.25	1.60	1.52
1	51	11	VAL	C-N	6.25	1.42	1.33
1	5m	12	HIS	ND1-CE1	6.25	1.38	1.32
1	8o	197	ASP	CA-CB	6.25	1.63	1.53
1	d2	182	LYS	C-N	6.25	1.42	1.33
1	er	62	HIS	CD2-NE2	6.25	1.44	1.37
1	eE	55	MET	CA-C	6.25	1.61	1.52
1	fl	22	ALA	CA-C	6.25	1.61	1.52
1	gf	143	ARG	CA-CB	6.24	1.63	1.53
1	gk	64	ALA	CA-C	6.24	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gq	162	ARG	CZ-NH2	-6.24	1.25	1.33
1	gT	70	LYS	C-O	-6.24	1.16	1.24
1	1G	129	ILE	CA-CB	-6.24	1.46	1.54
1	hs	194	ALA	CA-C	6.24	1.61	1.52
1	hD	137	GLY	CA-C	6.24	1.58	1.52
1	hS	78	ALA	CA-C	-6.24	1.44	1.52
1	i3	115	ILE	C-O	-6.24	1.17	1.24
1	j3	139	ASN	CA-CB	6.24	1.63	1.53
1	jc	154	ARG	CA-CB	6.24	1.64	1.53
1	jq	123	PRO	CA-CB	-6.24	1.45	1.53
1	jx	53	ASN	CA-CB	6.24	1.63	1.53
1	jW	28	GLU	CA-C	-6.24	1.44	1.52
1	ka	57	ASN	N-CA	6.24	1.53	1.46
1	kj	160	PRO	CA-CB	6.24	1.62	1.53
1	kA	84	HIS	ND1-CE1	6.24	1.38	1.32
1	lj	177	ALA	N-CA	-6.24	1.38	1.46
1	lP	12	HIS	ND1-CE1	6.24	1.38	1.32
1	lQ	15	ILE	CA-C	6.24	1.59	1.52
1	2c	71	GLU	CA-CB	6.24	1.63	1.53
1	2l	213	GLU	CA-C	-6.24	1.44	1.52
1	2n	5	ASN	N-CA	6.24	1.54	1.46
1	2z	96	MET	C-N	6.24	1.42	1.33
1	3r	226	HIS	CG-CD2	6.24	1.42	1.35
1	4G	124	ILE	N-CA	6.24	1.51	1.46
1	4I	12	HIS	ND1-CE1	6.24	1.38	1.32
1	5F	159	GLU	CA-C	6.24	1.60	1.52
1	5G	228	ALA	C-N	6.24	1.41	1.33
1	5R	116	GLY	C-N	6.24	1.42	1.33
1	66	133	TRP	CA-CB	6.24	1.63	1.53
1	6u	178	SER	CA-CB	6.24	1.62	1.53
1	74	190	LEU	C-N	6.24	1.41	1.33
1	7O	13	GLN	CA-C	6.24	1.60	1.52
1	8O	40	PHE	N-CA	-6.24	1.38	1.46
1	91	134	ILE	C-N	6.24	1.41	1.33
1	94	175	GLU	N-CA	-6.24	1.38	1.46
1	9f	110	THR	CA-CB	6.24	1.62	1.53
1	9p	104	ILE	CB-CG1	6.24	1.66	1.53
1	aJ	159	GLU	CA-C	6.24	1.60	1.52
1	aQ	84	HIS	ND1-CE1	6.24	1.38	1.32
1	bm	191	VAL	CA-C	-6.24	1.45	1.52
1	c3	6	LEU	C-O	-6.24	1.16	1.24
1	cw	198	CYS	C-N	6.24	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cB	52	LEU	N-CA	-6.24	1.38	1.46
1	d0	1	PRO	N-CA	6.24	1.56	1.47
1	dn	216	THR	N-CA	6.24	1.54	1.46
1	do	93	PRO	C-N	6.24	1.41	1.33
1	dA	83	LEU	CA-C	6.24	1.60	1.52
1	en	81	ASP	C-N	6.24	1.43	1.33
1	eI	110	THR	C-N	6.24	1.42	1.34
1	f5	97	ARG	CA-C	6.24	1.60	1.52
1	f8	187	GLU	CA-C	6.24	1.60	1.52
1	d	84	HIS	ND1-CE1	6.24	1.38	1.32
1	ho	23	TRP	C-O	-6.24	1.17	1.24
1	ic	120	HIS	ND1-CE1	6.24	1.38	1.32
1	ih	120	HIS	CA-C	6.24	1.60	1.52
1	iR	187	GLU	CA-CB	6.24	1.64	1.53
1	l1	144	MET	N-CA	-6.24	1.39	1.46
1	lb	60	GLY	C-N	6.24	1.39	1.33
1	lx	116	GLY	N-CA	6.24	1.53	1.45
1	2i	163	ASP	CA-C	-6.24	1.44	1.52
1	3N	37	ILE	CA-C	6.24	1.58	1.52
1	6J	202	LEU	CA-CB	6.24	1.64	1.53
1	8f	185	MET	CA-CB	6.24	1.63	1.53
1	8W	132	ARG	CD-NE	6.24	1.54	1.46
1	98	162	ARG	CZ-NH2	-6.24	1.25	1.33
1	9a	90	PRO	N-CD	-6.24	1.39	1.47
1	9n	37	ILE	CA-CB	6.24	1.57	1.54
1	a9	75	GLU	CA-C	-6.24	1.44	1.52
1	aF	111	LEU	CA-C	-6.24	1.44	1.52
1	15	43	LEU	CA-CB	6.24	1.63	1.53
1	bz	164	TYR	CA-C	6.24	1.60	1.52
1	ef	2	ILE	CA-C	6.24	1.60	1.52
1	ek	35	GLU	CA-C	6.24	1.61	1.52
1	fu	84	HIS	ND1-CE1	6.24	1.38	1.32
1	o	202	LEU	CA-CB	6.24	1.63	1.53
1	M	62	HIS	C-N	6.24	1.42	1.34
1	h2	177	ALA	CA-CB	6.24	1.63	1.53
1	hk	185	MET	N-CA	-6.24	1.38	1.46
1	hy	56	LEU	C-N	6.24	1.42	1.33
1	hH	24	VAL	C-N	6.24	1.42	1.33
1	1L	1	PRO	N-CD	6.24	1.56	1.47
1	ig	14	ALA	N-CA	-6.24	1.38	1.46
1	im	34	PRO	C-O	-6.24	1.15	1.24
1	1R	115	ILE	CA-CB	-6.24	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jj	76	GLU	N-CA	6.24	1.54	1.46
1	jC	100	ARG	CA-C	-6.24	1.44	1.53
1	1X	30	LYS	CA-CB	6.24	1.66	1.53
1	1X	110	THR	CA-CB	6.24	1.63	1.53
1	k7	165	VAL	N-CA	6.24	1.53	1.46
1	kX	222	GLY	N-CA	6.24	1.52	1.45
1	l4	108	THR	N-CA	6.24	1.54	1.46
1	27	203	LYS	CA-CB	6.24	1.63	1.53
1	2g	202	LEU	CA-CB	6.24	1.63	1.53
1	2k	132	ARG	CA-CB	6.24	1.63	1.53
1	2K	25	LYS	CA-CB	6.24	1.63	1.53
1	33	167	ARG	C-N	6.24	1.41	1.33
1	3w	52	LEU	CA-C	6.24	1.60	1.52
1	4Y	196	PRO	C-N	6.24	1.41	1.33
1	55	49	PRO	N-CA	6.24	1.55	1.47
1	5m	37	ILE	N-CA	-6.24	1.39	1.46
1	5M	222	GLY	CA-C	-6.24	1.45	1.52
1	6M	215	MET	CA-C	6.24	1.60	1.52
1	6Z	4	GLN	CA-CB	6.24	1.63	1.53
1	7A	160	PRO	CA-C	6.24	1.61	1.52
1	7Q	93	PRO	CA-C	6.24	1.61	1.52
1	7X	46	GLY	C-N	6.24	1.41	1.33
1	9M	78	ALA	C-N	6.24	1.42	1.33
1	as	80	TRP	C-N	6.24	1.42	1.33
1	13	147	PRO	C-N	6.24	1.41	1.33
1	aH	66	MET	CA-C	6.24	1.61	1.52
1	aW	165	VAL	CA-C	6.24	1.60	1.52
1	b2	84	HIS	ND1-CE1	6.24	1.38	1.32
1	bk	185	MET	N-CA	-6.24	1.38	1.46
1	bJ	145	TYR	CA-CB	6.24	1.62	1.53
1	1g	169	TYR	N-CA	-6.24	1.38	1.46
1	d2	55	MET	CA-C	6.24	1.60	1.52
1	dG	46	GLY	CA-C	-6.24	1.42	1.51
1	dT	169	TYR	CA-CB	6.24	1.63	1.53
1	et	29	GLU	N-CA	-6.24	1.38	1.46
1	eM	12	HIS	CG-CD2	6.24	1.42	1.35
1	eN	39	MET	C-N	6.24	1.41	1.33
1	eU	111	LEU	CA-C	6.24	1.60	1.52
1	f0	156	GLY	C-N	6.24	1.41	1.34
1	fY	155	GLN	CA-CB	6.24	1.62	1.53
1	z	124	ILE	N-CA	-6.24	1.38	1.46
1	go	95	GLN	N-CA	-6.24	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gx	62	HIS	CA-C	-6.24	1.44	1.53
1	gA	131	LYS	C-N	6.24	1.42	1.33
1	gP	44	SER	N-CA	6.24	1.53	1.46
1	gP	70	LYS	CA-C	-6.24	1.44	1.52
1	gY	139	ASN	C-N	6.24	1.42	1.34
1	i4	87	HIS	N-CA	-6.24	1.38	1.46
1	iD	188	THR	CA-C	-6.24	1.46	1.53
1	j7	10	MET	CA-C	6.24	1.60	1.52
1	jb	12	HIS	ND1-CE1	6.24	1.38	1.32
1	jE	33	SER	C-O	-6.24	1.19	1.24
1	jH	87	HIS	ND1-CE1	6.24	1.38	1.32
1	k7	26	VAL	CA-CB	6.24	1.62	1.54
1	kN	109	SER	CA-C	-6.24	1.45	1.52
1	26	44	SER	CA-C	-6.24	1.44	1.52
1	le	120	HIS	CA-C	6.24	1.61	1.52
1	lJ	83	LEU	CA-C	-6.24	1.44	1.52
1	2K	187	GLU	CA-CB	6.24	1.63	1.53
1	2R	126	VAL	CA-CB	6.24	1.63	1.54
1	2Z	180	GLU	N-CA	-6.24	1.38	1.46
1	3x	10	MET	CA-CB	6.24	1.63	1.53
1	3P	2	ILE	N-CA	-6.24	1.38	1.46
1	3U	88	ALA	CA-CB	6.24	1.63	1.53
1	41	127	GLY	C-N	-6.24	1.25	1.33
1	47	104	ILE	C-N	6.24	1.42	1.33
1	4y	66	MET	CG-SD	-6.24	1.65	1.80
1	5y	149	SER	C-N	6.24	1.40	1.34
1	6c	64	ALA	CA-CB	6.24	1.63	1.53
1	6k	151	LEU	CA-C	6.24	1.61	1.52
1	6t	73	ILE	C-N	6.24	1.42	1.33
1	6w	120	HIS	ND1-CE1	6.24	1.38	1.32
1	7o	26	VAL	CA-CB	-6.24	1.47	1.54
1	7N	18	ARG	CD-NE	6.24	1.54	1.46
1	81	53	ASN	CA-CB	6.24	1.63	1.53
1	8C	125	PRO	CA-C	-6.24	1.46	1.53
1	aa	219	GLN	C-N	6.24	1.41	1.33
1	an	221	VAL	N-CA	-6.24	1.38	1.46
1	az	47	ALA	C-O	-6.24	1.16	1.24
1	aI	181	VAL	CA-C	-6.24	1.45	1.52
1	aK	177	ALA	CA-C	-6.24	1.44	1.52
1	aL	203	LYS	C-N	-6.24	1.25	1.33
1	bj	102	SER	CA-CB	6.24	1.63	1.53
1	c3	71	GLU	CA-C	6.24	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c4	80	TRP	NE1-CE2	6.24	1.44	1.37
1	c9	38	PRO	CA-CB	6.24	1.62	1.53
1	cw	141	ILE	N-CA	-6.24	1.38	1.46
1	cM	190	LEU	N-CA	6.24	1.53	1.46
1	eL	82	ARG	CD-NE	6.24	1.54	1.46
1	eW	75	GLU	CA-CB	6.24	1.63	1.53
1	f0	178	SER	CA-CB	6.24	1.63	1.53
1	f1	176	GLN	CA-CB	6.24	1.64	1.53
1	fG	10	MET	C-N	-6.24	1.26	1.33
1	1B	68	MET	C-N	6.24	1.42	1.33
1	gQ	183	ASN	CA-C	-6.24	1.44	1.52
1	i5	184	TRP	NE1-CE2	-6.24	1.30	1.37
1	ix	20	LEU	CA-CB	6.24	1.64	1.53
1	iE	194	ALA	N-CA	-6.24	1.38	1.45
1	kJ	143	ARG	CD-NE	6.24	1.54	1.46
1	kL	225	GLY	C-N	6.24	1.42	1.33
1	lu	120	HIS	ND1-CE1	6.24	1.38	1.32
1	2O	179	GLN	CA-C	6.24	1.60	1.52
1	35	61	GLY	N-CA	6.24	1.54	1.45
1	4W	185	MET	CA-CB	6.24	1.63	1.53
1	56	134	ILE	CA-CB	-6.24	1.47	1.54
1	7Z	11	VAL	C-O	6.24	1.30	1.24
1	8e	145	TYR	N-CA	-6.24	1.38	1.46
1	95	194	ALA	CA-C	6.24	1.60	1.52
1	9k	87	HIS	CG-ND1	-6.24	1.31	1.38
1	ar	137	GLY	CA-C	6.24	1.59	1.52
1	bB	80	TRP	CA-C	6.24	1.60	1.52
1	bN	147	PRO	CA-CB	6.24	1.62	1.53
1	cb	74	ASN	CA-C	6.24	1.60	1.52
1	cp	138	LEU	CA-C	-6.24	1.44	1.52
1	cZ	127	GLY	CA-C	-6.24	1.45	1.52
1	dB	11	VAL	CA-C	-6.24	1.45	1.52
1	1x	32	PHE	CA-CB	6.24	1.61	1.53
1	fC	12	HIS	ND1-CE1	6.24	1.38	1.32
1	g	11	VAL	N-CA	-6.24	1.39	1.46
1	H	18	ARG	CA-CB	6.24	1.63	1.53
1	gn	187	GLU	CA-CB	6.24	1.63	1.53
1	1F	226	HIS	ND1-CE1	6.24	1.38	1.32
1	gO	48	THR	CA-C	6.24	1.59	1.52
1	gP	230	VAL	CA-CB	6.24	1.60	1.54
1	ha	155	GLN	CA-CB	6.24	1.62	1.53
1	hE	140	LYS	CA-C	-6.24	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hW	172	LEU	N-CA	-6.24	1.38	1.46
1	iK	152	ASP	C-N	6.24	1.40	1.33
1	1T	75	GLU	N-CA	6.24	1.53	1.46
1	jB	230	VAL	C-N	6.24	1.42	1.33
1	jN	208	ALA	CA-CB	6.24	1.62	1.53
1	2q	196	PRO	N-CA	6.24	1.55	1.47
1	3Q	102	SER	CA-C	-6.24	1.44	1.52
1	3S	81	ASP	C-O	-6.24	1.16	1.24
1	3T	166	ASP	CA-CB	6.24	1.63	1.53
1	5E	133	TRP	CA-CB	6.24	1.63	1.53
1	5S	105	ALA	C-N	6.24	1.43	1.33
1	63	165	VAL	CA-C	6.24	1.61	1.52
1	6e	186	THR	C-N	6.24	1.41	1.33
1	6F	204	ALA	C-N	6.24	1.41	1.33
1	6R	128	GLU	CA-CB	6.24	1.63	1.53
1	72	193	ASN	CA-CB	6.24	1.61	1.53
1	7m	30	LYS	CA-C	6.24	1.60	1.52
1	7u	84	HIS	CB-CG	6.24	1.58	1.50
1	8d	82	ARG	NE-CZ	-6.24	1.26	1.33
1	8W	41	SER	CA-C	-6.24	1.44	1.52
1	9B	12	HIS	CB-CG	6.24	1.58	1.50
1	9H	129	ILE	CA-CB	6.24	1.61	1.54
1	Z	206	GLY	CA-C	-6.24	1.43	1.51
1	10	185	MET	N-CA	-6.24	1.38	1.46
1	am	5	ASN	N-CA	6.24	1.54	1.46
1	aN	90	PRO	N-CA	-6.24	1.39	1.47
1	bA	71	GLU	CA-C	6.24	1.60	1.52
1	bJ	30	LYS	CA-CB	6.24	1.62	1.53
1	c6	93	PRO	C-O	-6.24	1.16	1.23
1	cg	83	LEU	CA-C	-6.24	1.44	1.52
1	cB	7	GLN	CA-C	6.24	1.60	1.52
1	cR	62	HIS	ND1-CE1	6.24	1.38	1.32
1	1h	114	GLN	C-N	6.24	1.41	1.33
1	dt	171	THR	CA-C	6.24	1.61	1.52
1	eP	223	GLY	CA-C	6.24	1.60	1.51
1	f2	62	HIS	CG-ND1	6.24	1.45	1.38
1	f7	18	ARG	CA-C	-6.24	1.45	1.52
1	fq	148	THR	C-O	-6.24	1.16	1.24
1	fw	172	LEU	CA-C	6.24	1.62	1.52
1	fJ	137	GLY	CA-C	-6.24	1.45	1.52
1	o	132	ARG	CA-C	-6.24	1.44	1.52
1	M	6	LEU	C-N	-6.24	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	63	GLN	N-CA	6.24	1.54	1.46
1	6	120	HIS	CB-CG	6.24	1.58	1.50
1	gy	226	HIS	ND1-CE1	6.23	1.38	1.32
1	hE	103	ASP	C-N	6.23	1.41	1.33
1	hK	62	HIS	CE1-NE2	6.23	1.38	1.32
1	iu	218	CYS	CA-CB	6.23	1.62	1.53
1	iw	133	TRP	NE1-CE2	-6.23	1.30	1.37
1	k9	222	GLY	CA-C	-6.23	1.45	1.52
1	kw	195	ASN	CA-CB	6.23	1.63	1.53
1	57	216	THR	CA-CB	6.23	1.62	1.53
1	5d	124	ILE	N-CA	-6.23	1.40	1.46
1	5V	64	ALA	C-N	6.23	1.41	1.33
1	63	1	PRO	N-CD	6.23	1.56	1.47
1	84	211	LEU	C-N	6.23	1.42	1.33
1	8S	55	MET	CA-C	6.23	1.60	1.52
1	97	126	VAL	CA-CB	6.23	1.62	1.54
1	9p	87	HIS	CA-CB	6.23	1.64	1.53
1	9K	221	VAL	N-CA	6.23	1.53	1.46
1	ay	1	PRO	C-N	6.23	1.41	1.33
1	ay	167	ARG	NE-CZ	6.23	1.40	1.33
1	bd	149	SER	C-N	6.23	1.41	1.33
1	bs	115	ILE	C-N	6.23	1.41	1.33
1	bz	162	ARG	CA-C	-6.23	1.44	1.52
1	bJ	144	MET	C-N	6.23	1.42	1.33
1	e0	9	GLN	CA-CB	6.23	1.60	1.52
1	fe	125	PRO	C-N	6.23	1.41	1.33
1	k	148	THR	N-CA	-6.23	1.38	1.46
1	O	62	HIS	CE1-NE2	6.23	1.38	1.32
1	gz	130	TYR	CA-C	-6.23	1.44	1.52
1	1F	1	PRO	C-N	6.23	1.41	1.33
1	hf	52	LEU	C-N	6.23	1.42	1.33
1	ht	67	GLN	C-N	6.23	1.42	1.34
1	hv	141	ILE	CA-C	6.23	1.60	1.52
1	hF	27	VAL	CA-C	-6.23	1.44	1.52
1	hM	4	GLN	C-O	-6.23	1.16	1.23
1	iH	205	LEU	CA-CB	6.23	1.63	1.53
1	iO	32	PHE	CA-CB	6.23	1.63	1.53
1	j3	184	TRP	C-N	6.23	1.42	1.33
1	jb	106	GLY	CA-C	-6.23	1.42	1.51
1	js	200	THR	N-CA	6.23	1.53	1.46
1	jK	35	GLU	C-N	6.23	1.41	1.33
1	jO	191	VAL	CA-C	-6.23	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Y	86	VAL	CA-CB	6.23	1.60	1.54
1	1Y	190	LEU	N-CA	6.23	1.53	1.46
1	k4	110	THR	N-CA	6.23	1.53	1.46
1	ko	178	SER	N-CA	6.23	1.53	1.46
1	kv	189	LEU	CA-C	-6.23	1.44	1.52
1	kD	219	GLN	C-O	-6.23	1.16	1.24
1	lJ	65	ALA	N-CA	-6.23	1.38	1.46
1	lO	64	ALA	CA-C	6.23	1.60	1.52
1	3c	230	VAL	CA-CB	6.23	1.62	1.53
1	3e	77	ALA	CA-C	6.23	1.60	1.52
1	3D	80	TRP	N-CA	-6.23	1.38	1.46
1	3V	97	ARG	CZ-NH2	-6.23	1.25	1.33
1	4N	124	ILE	CA-CB	6.23	1.60	1.53
1	4R	82	ARG	N-CA	-6.23	1.38	1.46
1	4T	74	ASN	CA-C	6.23	1.61	1.52
1	4Z	128	GLU	CA-C	-6.23	1.45	1.52
1	5m	180	GLU	CA-C	6.23	1.61	1.52
1	6s	159	GLU	CA-C	6.23	1.60	1.53
1	6G	216	THR	C-N	6.23	1.42	1.33
1	6T	124	ILE	CA-CB	-6.23	1.47	1.53
1	7d	149	SER	CA-C	-6.23	1.44	1.52
1	7i	125	PRO	CA-C	6.23	1.61	1.52
1	7C	125	PRO	CA-C	-6.23	1.47	1.53
1	7E	199	LYS	N-CA	6.23	1.53	1.46
1	7L	2	ILE	CA-CB	-6.23	1.46	1.54
1	8t	148	THR	CA-C	-6.23	1.45	1.52
1	8Q	184	TRP	NE1-CE2	6.23	1.44	1.37
1	9B	128	GLU	CA-CB	6.23	1.63	1.53
1	9W	211	LEU	C-N	6.23	1.42	1.34
1	aB	227	LYS	C-N	6.23	1.42	1.33
1	bh	141	ILE	C-N	6.23	1.41	1.33
1	bT	13	GLN	CA-CB	6.23	1.63	1.53
1	cM	165	VAL	CA-C	-6.23	1.45	1.52
1	cW	154	ARG	CD-NE	6.23	1.54	1.46
1	dz	91	ILE	N-CA	6.23	1.54	1.46
1	dB	59	VAL	CA-CB	6.23	1.60	1.54
1	dT	30	LYS	CA-CB	6.23	1.63	1.54
1	ed	138	LEU	N-CA	-6.23	1.38	1.46
1	eG	100	ARG	CA-CB	6.23	1.63	1.53
1	f5	13	GLN	N-CA	-6.23	1.38	1.46
1	fl	8	GLY	N-CA	6.23	1.52	1.45
1	fp	19	THR	CA-C	-6.23	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fu	109	SER	N-CA	-6.23	1.38	1.45
1	fA	12	HIS	ND1-CE1	6.23	1.38	1.32
1	fZ	181	VAL	CA-CB	-6.23	1.47	1.54
1	m	123	PRO	C-N	6.23	1.39	1.33
1	1G	74	ASN	CA-C	6.23	1.60	1.52
1	gW	21	ASN	C-N	6.23	1.42	1.33
1	h3	153	ILE	N-CA	-6.23	1.39	1.46
1	hl	84	HIS	CA-CB	6.23	1.61	1.53
1	hJ	80	TRP	N-CA	-6.23	1.38	1.46
1	i2	76	GLU	N-CA	-6.23	1.38	1.46
1	jj	166	ASP	N-CA	-6.23	1.39	1.46
1	jW	79	GLU	CA-CB	6.23	1.63	1.53
1	k0	72	THR	CA-CB	6.23	1.63	1.53
1	k3	161	PHE	C-N	-6.23	1.25	1.34
1	kS	132	ARG	C-N	6.23	1.42	1.33
1	kZ	150	ILE	CA-C	-6.23	1.44	1.52
1	lk	22	ALA	N-CA	-6.23	1.38	1.46
1	lB	144	MET	CA-CB	6.23	1.63	1.53
1	3g	87	HIS	C-O	-6.23	1.16	1.24
1	3k	149	SER	N-CA	6.23	1.53	1.46
1	4B	166	ASP	N-CA	-6.23	1.38	1.46
1	4B	211	LEU	CA-C	6.23	1.60	1.52
1	4C	100	ARG	CA-C	-6.23	1.45	1.53
1	4Z	139	ASN	N-CA	6.23	1.53	1.46
1	5S	37	ILE	CA-CB	6.23	1.62	1.54
1	6I	73	ILE	CA-C	6.23	1.60	1.52
1	7g	48	THR	CA-CB	6.23	1.63	1.53
1	7q	167	ARG	NE-CZ	-6.23	1.26	1.33
1	80	143	ARG	N-CA	6.23	1.54	1.46
1	84	136	LEU	C-N	6.23	1.41	1.33
1	8g	89	GLY	N-CA	6.23	1.53	1.44
1	8U	82	ARG	CD-NE	6.23	1.54	1.46
1	8Y	71	GLU	N-CA	-6.23	1.38	1.46
1	9F	25	LYS	C-N	6.23	1.41	1.33
1	9O	92	GLU	C-O	-6.23	1.21	1.23
1	9U	86	VAL	CA-C	6.23	1.60	1.52
1	9V	59	VAL	CA-C	-6.23	1.45	1.52
1	br	203	LYS	C-N	6.23	1.42	1.33
1	bx	52	LEU	CA-C	-6.23	1.44	1.52
1	bL	103	ASP	CA-CB	6.23	1.63	1.53
1	bM	165	VAL	N-CA	6.23	1.53	1.46
1	bW	226	HIS	ND1-CE1	6.23	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bY	86	VAL	N-CA	-6.23	1.38	1.46
1	cN	59	VAL	C-N	6.23	1.41	1.33
1	cQ	32	PHE	N-CA	6.23	1.53	1.46
1	d7	164	TYR	CA-C	6.23	1.61	1.52
1	dG	101	GLY	CA-C	6.23	1.59	1.51
1	dV	163	ASP	CA-CB	6.23	1.63	1.53
1	e0	186	THR	N-CA	6.23	1.53	1.46
1	e3	49	PRO	N-CA	-6.23	1.39	1.47
1	e4	139	ASN	CA-C	6.23	1.60	1.52
1	g1	57	ASN	N-CA	6.23	1.54	1.46
1	q	143	ARG	CA-CB	6.23	1.63	1.53
1	h5	117	TRP	CD2-CE3	6.23	1.50	1.40
1	hi	100	ARG	CD-NE	6.23	1.54	1.46
1	ii	118	MET	C-N	6.23	1.42	1.33
1	ja	39	MET	CA-C	-6.23	1.44	1.52
1	jf	29	GLU	CA-CB	6.23	1.63	1.53
1	k9	166	ASP	CA-C	-6.23	1.44	1.52
1	kp	100	ARG	N-CA	6.23	1.54	1.45
1	2L	30	LYS	N-CA	-6.23	1.37	1.46
1	3n	130	TYR	C-N	6.23	1.42	1.33
1	4S	100	ARG	C-N	6.23	1.42	1.33
1	5j	120	HIS	C-N	6.23	1.40	1.33
1	5D	203	LYS	C-N	6.23	1.42	1.33
1	5E	164	TYR	C-O	-6.23	1.17	1.24
1	5O	78	ALA	N-CA	6.23	1.54	1.46
1	6t	139	ASN	CA-CB	6.23	1.63	1.53
1	73	35	GLU	C-N	6.23	1.41	1.33
1	9y	120	HIS	N-CA	6.23	1.53	1.45
1	11	89	GLY	CA-C	6.23	1.60	1.51
1	b1	105	ALA	N-CA	-6.23	1.38	1.46
1	bC	144	MET	CA-C	6.23	1.58	1.52
1	c2	39	MET	C-N	6.23	1.42	1.33
1	ds	220	GLY	C-N	6.23	1.41	1.33
1	fp	5	ASN	CA-C	-6.23	1.45	1.52
1	gC	4	GLN	CA-CB	6.23	1.64	1.53
1	gL	221	VAL	C-N	6.23	1.41	1.32
1	h5	9	GLN	C-N	6.23	1.42	1.33
1	hi	161	PHE	CA-CB	6.23	1.63	1.53
1	hn	205	LEU	C-O	6.23	1.31	1.24
1	1L	26	VAL	N-CA	6.23	1.53	1.46
1	hQ	87	HIS	CA-CB	6.23	1.61	1.53
1	hV	16	SER	C-N	6.23	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iH	25	LYS	CA-C	-6.23	1.45	1.52
1	ka	226	HIS	CG-CD2	6.23	1.42	1.35
1	kb	71	GLU	CA-C	6.23	1.61	1.52
1	24	12	HIS	CB-CG	6.23	1.58	1.50
1	lv	97	ARG	CD-NE	6.23	1.54	1.46
1	2f	30	LYS	C-O	6.23	1.31	1.23
1	2h	27	VAL	N-CA	6.23	1.53	1.46
1	2i	226	HIS	CG-ND1	6.23	1.45	1.38
1	2m	5	ASN	CA-CB	6.23	1.63	1.53
1	2s	124	ILE	CA-C	6.23	1.58	1.53
1	39	184	TRP	CA-CB	6.23	1.63	1.53
1	39	195	ASN	CA-C	6.23	1.60	1.52
1	3c	55	MET	CA-CB	6.23	1.63	1.53
1	3k	99	PRO	N-CA	-6.23	1.39	1.47
1	53	89	GLY	CA-C	-6.23	1.43	1.51
1	57	147	PRO	CA-CB	6.23	1.62	1.53
1	68	54	THR	CA-C	-6.23	1.45	1.52
1	6b	139	ASN	C-N	6.23	1.42	1.34
1	6V	172	LEU	N-CA	-6.23	1.38	1.46
1	6V	227	LYS	CA-C	-6.23	1.45	1.52
1	7x	229	ARG	CZ-NH2	-6.23	1.25	1.33
1	86	163	ASP	N-CA	6.23	1.53	1.46
1	8i	172	LEU	N-CA	6.23	1.53	1.46
1	8w	3	VAL	N-CA	-6.23	1.39	1.46
1	8Z	62	HIS	CE1-NE2	6.23	1.38	1.32
1	9l	109	SER	CA-C	-6.23	1.45	1.52
1	9m	195	ASN	CA-CB	6.23	1.62	1.53
1	9n	219	GLN	CA-CB	6.23	1.64	1.53
1	9x	100	ARG	NE-CZ	-6.23	1.26	1.33
1	9N	59	VAL	CA-C	-6.23	1.45	1.52
1	a8	120	HIS	CB-CG	6.23	1.58	1.50
1	aD	103	ASP	C-N	6.23	1.41	1.33
1	aO	149	SER	CA-C	-6.23	1.44	1.52
1	aP	99	PRO	C-O	-6.23	1.17	1.23
1	b1	96	MET	CA-CB	6.23	1.63	1.53
1	be	207	PRO	N-CD	-6.23	1.39	1.47
1	c3	198	CYS	CA-CB	6.23	1.63	1.53
1	c6	57	ASN	N-CA	6.23	1.54	1.46
1	cg	38	PRO	CA-CB	-6.23	1.45	1.53
1	ct	24	VAL	C-N	6.23	1.43	1.33
1	dk	97	ARG	CD-NE	6.23	1.54	1.46
1	dH	28	GLU	CA-C	-6.23	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e3	103	ASP	CA-CB	6.23	1.63	1.53
1	eg	32	PHE	C-N	6.23	1.40	1.33
1	eP	54	THR	C-N	6.23	1.41	1.33
1	f5	35	GLU	CA-C	6.23	1.61	1.52
1	fH	211	LEU	CA-CB	6.23	1.63	1.53
1	g3	19	THR	CA-C	-6.23	1.45	1.52
1	x	36	VAL	C-N	6.23	1.40	1.33
1	4	133	TRP	N-CA	-6.23	1.38	1.46
1	6	199	LYS	CA-CB	6.23	1.63	1.53
1	kL	23	TRP	NE1-CE2	-6.23	1.30	1.37
1	2a	208	ALA	C-N	6.23	1.41	1.33
1	4k	120	HIS	CG-CD2	6.23	1.42	1.35
1	4u	145	TYR	CA-CB	6.23	1.62	1.53
1	6J	2	ILE	CA-C	6.23	1.59	1.52
1	6R	227	LYS	CA-C	-6.23	1.44	1.53
1	75	139	ASN	CA-CB	6.23	1.62	1.53
1	83	123	PRO	C-N	6.23	1.39	1.33
1	aT	131	LYS	C-N	6.23	1.42	1.33
1	dH	37	ILE	CA-C	6.23	1.57	1.52
1	ef	193	ASN	CA-CB	6.23	1.62	1.53
1	fz	124	ILE	N-CA	-6.23	1.40	1.46
1	g4	195	ASN	CA-C	-6.23	1.46	1.53
1	1	39	MET	CA-C	6.23	1.61	1.52
1	S	164	TYR	C-N	6.23	1.41	1.34
1	gB	37	ILE	CA-C	-6.22	1.46	1.52
1	gI	87	HIS	N-CA	-6.22	1.38	1.46
1	1K	114	GLN	N-CA	-6.22	1.38	1.46
1	hR	120	HIS	CG-CD2	6.22	1.42	1.35
1	hS	89	GLY	N-CA	6.22	1.53	1.44
1	hW	180	GLU	C-N	6.22	1.41	1.33
1	1N	3	VAL	CA-C	-6.22	1.45	1.52
1	if	23	TRP	N-CA	-6.22	1.38	1.46
1	iH	53	ASN	C-N	6.22	1.42	1.33
1	1R	39	MET	CA-C	-6.22	1.44	1.52
1	j1	4	GLN	CA-C	6.22	1.61	1.53
1	jh	77	ALA	CA-C	-6.22	1.44	1.52
1	ji	82	ARG	CZ-NH2	-6.22	1.25	1.33
1	jk	41	SER	CA-C	6.22	1.60	1.52
1	js	204	ALA	C-N	6.22	1.42	1.33
1	jC	209	ALA	CA-C	6.22	1.60	1.52
1	jR	84	HIS	CA-CB	6.22	1.61	1.53
1	jX	141	ILE	CA-CB	-6.22	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kr	15	ILE	CA-CB	-6.22	1.47	1.54
1	kR	220	GLY	CA-C	6.22	1.59	1.51
1	2l	76	GLU	C-O	-6.22	1.16	1.24
1	2B	55	MET	CA-CB	6.22	1.63	1.53
1	3Y	199	LYS	N-CA	-6.22	1.38	1.46
1	4j	9	GLN	C-O	-6.22	1.15	1.23
1	58	30	LYS	CA-CB	6.22	1.61	1.53
1	59	162	ARG	NE-CZ	-6.22	1.26	1.33
1	6B	75	GLU	N-CA	-6.22	1.38	1.46
1	6H	24	VAL	N-CA	-6.22	1.39	1.46
1	7k	181	VAL	CA-C	6.22	1.60	1.52
1	8z	192	GLN	CA-CB	6.22	1.63	1.53
1	9h	37	ILE	CA-C	6.22	1.59	1.52
1	9p	98	GLU	CA-CB	6.22	1.63	1.52
1	a0	176	GLN	C-N	6.22	1.42	1.33
1	af	111	LEU	N-CA	6.22	1.54	1.46
1	an	14	ALA	CA-C	6.22	1.61	1.52
1	bR	199	LYS	CA-C	6.22	1.60	1.52
1	cT	74	ASN	CA-C	6.22	1.60	1.52
1	cW	28	GLU	N-CA	6.22	1.53	1.46
1	ee	211	LEU	N-CA	6.22	1.53	1.46
1	en	120	HIS	ND1-CE1	6.22	1.38	1.32
1	ey	74	ASN	CA-C	6.22	1.61	1.52
1	eS	33	SER	N-CA	-6.22	1.40	1.45
1	eV	150	ILE	CA-C	-6.22	1.43	1.52
1	eX	93	PRO	CA-CB	6.22	1.62	1.53
1	fF	140	LYS	N-CA	-6.22	1.38	1.46
1	l	112	GLN	C-O	-6.22	1.16	1.24
1	gx	61	GLY	C-N	6.22	1.41	1.33
1	1H	57	ASN	CA-C	-6.22	1.44	1.52
1	hc	37	ILE	C-N	6.22	1.41	1.34
1	hv	39	MET	CA-CB	-6.22	1.43	1.53
1	in	110	THR	CA-C	-6.22	1.44	1.52
1	iw	138	LEU	CA-C	6.22	1.60	1.52
1	iA	157	PRO	CA-CB	6.22	1.62	1.53
1	iS	226	HIS	CD2-NE2	6.22	1.44	1.37
1	1T	5	ASN	N-CA	-6.22	1.38	1.46
1	jV	226	HIS	ND1-CE1	6.22	1.38	1.32
1	km	164	TYR	CA-CB	6.22	1.63	1.53
1	kT	37	ILE	CA-C	6.22	1.58	1.52
1	2e	130	TYR	C-N	6.22	1.41	1.33
1	2B	12	HIS	C-N	6.22	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	47	31	ALA	CA-C	6.22	1.61	1.52
1	4o	132	ARG	C-N	6.22	1.42	1.33
1	4w	198	CYS	CA-CB	6.22	1.63	1.53
1	4M	216	THR	CB-OG1	-6.22	1.33	1.43
1	4Y	9	GLN	CA-CB	6.22	1.63	1.53
1	5v	40	PHE	C-N	6.22	1.41	1.33
1	6I	107	THR	CA-CB	6.22	1.62	1.53
1	6Y	120	HIS	CG-CD2	6.22	1.42	1.35
1	8d	170	LYS	CA-C	-6.22	1.44	1.52
1	8E	24	VAL	CA-CB	-6.22	1.45	1.54
1	8S	134	ILE	CA-CB	-6.22	1.46	1.54
1	ah	108	THR	CA-CB	6.22	1.61	1.53
1	aE	120	HIS	N-CA	6.22	1.53	1.45
1	aT	226	HIS	CD2-NE2	6.22	1.44	1.37
1	bl	80	TRP	C-N	6.22	1.42	1.34
1	bz	28	GLU	CA-C	-6.22	1.45	1.52
1	bT	90	PRO	C-N	6.22	1.41	1.33
1	c3	73	ILE	CA-C	6.22	1.60	1.52
1	cc	66	MET	CA-CB	6.22	1.63	1.53
1	dy	72	THR	N-CA	-6.22	1.38	1.46
1	eg	103	ASP	N-CA	-6.22	1.38	1.46
1	eh	121	ASN	CA-CB	6.22	1.60	1.53
1	en	128	GLU	C-N	6.22	1.41	1.33
1	f8	85	PRO	N-CD	-6.22	1.39	1.47
1	fm	3	VAL	N-CA	-6.22	1.38	1.46
1	fs	164	TYR	CZ-OH	6.22	1.51	1.38
1	fA	98	GLU	C-N	-6.22	1.25	1.33
1	i6	173	ARG	CZ-NH2	-6.22	1.25	1.33
1	iT	200	THR	N-CA	-6.22	1.39	1.46
1	2l	115	ILE	C-N	6.22	1.41	1.33
1	2A	104	ILE	CA-CB	-6.22	1.45	1.54
1	3b	167	ARG	CA-C	6.22	1.60	1.52
1	3d	139	ASN	N-CA	-6.22	1.37	1.46
1	41	133	TRP	NE1-CE2	-6.22	1.30	1.37
1	5z	75	GLU	CA-CB	6.22	1.63	1.53
1	5C	153	ILE	CA-CB	6.22	1.60	1.53
1	63	164	TYR	C-N	6.22	1.41	1.34
1	6T	73	ILE	CA-C	-6.22	1.44	1.52
1	92	207	PRO	CA-CB	6.22	1.62	1.53
1	9G	56	LEU	N-CA	-6.22	1.38	1.46
1	bi	51	ASP	CA-CB	6.22	1.63	1.53
1	cf	83	LEU	CA-C	-6.22	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1p	142	VAL	C-N	6.22	1.42	1.33
1	en	135	ILE	CA-C	6.22	1.60	1.52
1	eL	124	ILE	N-CA	-6.22	1.41	1.46
1	f5	201	ILE	CA-CB	-6.22	1.46	1.54
1	fJ	74	ASN	CA-C	-6.22	1.44	1.52
1	d	101	GLY	CA-C	-6.22	1.45	1.52
1	F	181	VAL	C-N	-6.22	1.26	1.33
1	U	224	PRO	CA-CB	6.22	1.62	1.53
1	g8	155	GLN	CA-C	6.22	1.60	1.52
1	gm	221	VAL	CA-C	6.22	1.60	1.52
1	gm	230	VAL	CA-CB	-6.22	1.47	1.54
1	h6	3	VAL	CA-CB	-6.22	1.46	1.54
1	hj	24	VAL	CA-CB	6.22	1.62	1.54
1	1L	43	LEU	CA-C	6.22	1.61	1.52
1	1L	217	ALA	CA-CB	6.22	1.63	1.53
1	i4	229	ARG	N-CA	-6.22	1.37	1.45
1	ih	54	THR	N-CA	6.22	1.54	1.46
1	im	120	HIS	ND1-CE1	6.22	1.38	1.32
1	iX	3	VAL	CA-CB	6.22	1.61	1.54
1	jx	66	MET	N-CA	6.22	1.54	1.46
1	jz	128	GLU	C-O	-6.22	1.16	1.24
1	jz	194	ALA	CA-CB	6.22	1.62	1.53
1	1X	11	VAL	CA-CB	-6.22	1.46	1.54
1	jM	124	ILE	CA-C	6.22	1.58	1.53
1	k9	51	ASP	C-N	6.22	1.42	1.33
1	2P	66	MET	CA-CB	6.22	1.62	1.53
1	3t	58	THR	CA-C	-6.22	1.44	1.52
1	3S	216	THR	CA-C	6.22	1.60	1.52
1	48	86	VAL	N-CA	-6.22	1.39	1.46
1	4a	49	PRO	C-N	6.22	1.42	1.33
1	4h	151	LEU	CA-CB	6.22	1.63	1.54
1	5a	22	ALA	C-O	6.22	1.31	1.24
1	5B	46	GLY	C-N	-6.22	1.24	1.33
1	5X	37	ILE	CA-CB	-6.22	1.50	1.54
1	6N	216	THR	CA-C	-6.22	1.45	1.52
1	7A	211	LEU	N-CA	6.22	1.54	1.46
1	8x	84	HIS	N-CA	-6.22	1.40	1.46
1	9J	123	PRO	CA-C	6.22	1.60	1.52
1	aZ	152	ASP	CA-C	-6.22	1.44	1.52
1	bH	150	ILE	CA-CB	6.22	1.63	1.54
1	c9	125	PRO	C-N	6.22	1.41	1.34
1	cd	82	ARG	CA-CB	6.22	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cj	37	ILE	CA-C	6.22	1.59	1.52
1	cu	67	GLN	CA-C	6.22	1.60	1.52
1	1g	66	MET	C-O	-6.22	1.16	1.24
1	dm	2	ILE	C-N	6.22	1.42	1.33
1	dG	196	PRO	CA-CB	6.22	1.62	1.53
1	e6	172	LEU	C-N	6.22	1.42	1.33
1	ec	84	HIS	CA-C	-6.22	1.45	1.52
1	ec	120	HIS	CG-ND1	-6.22	1.31	1.38
1	eq	188	THR	CA-C	-6.22	1.47	1.52
1	eD	189	LEU	CA-C	-6.22	1.46	1.52
1	eG	98	GLU	CA-C	6.22	1.60	1.52
1	eK	148	THR	N-CA	6.22	1.53	1.45
1	eZ	154	ARG	N-CA	6.22	1.53	1.45
1	1y	211	LEU	N-CA	-6.22	1.39	1.46
1	fX	12	HIS	ND1-CE1	6.22	1.38	1.32
1	g6	3	VAL	CA-CB	6.22	1.64	1.54
1	F	43	LEU	C-N	6.22	1.42	1.33
1	hf	80	TRP	N-CA	-6.22	1.38	1.46
1	hq	157	PRO	C-N	6.22	1.42	1.33
1	hI	71	GLU	N-CA	-6.22	1.38	1.46
1	hN	162	ARG	NE-CZ	6.22	1.39	1.33
1	1S	96	MET	CA-C	6.22	1.60	1.52
1	iT	146	SER	CA-CB	6.22	1.63	1.52
1	lf	54	THR	C-N	6.22	1.43	1.33
1	2X	37	ILE	CA-CB	-6.22	1.51	1.54
1	57	120	HIS	CG-CD2	-6.22	1.29	1.35
1	8B	31	ALA	CA-C	6.22	1.61	1.52
1	bC	74	ASN	CA-C	6.22	1.60	1.52
1	cc	81	ASP	CA-C	6.22	1.61	1.52
1	cJ	70	LYS	C-N	6.22	1.42	1.33
1	cR	132	ARG	N-CA	-6.22	1.38	1.46
1	dD	59	VAL	CA-C	-6.22	1.46	1.53
1	dQ	96	MET	CA-CB	6.22	1.63	1.53
1	eK	71	GLU	CA-C	-6.22	1.45	1.52
1	f4	81	ASP	C-N	6.22	1.42	1.33
1	fM	224	PRO	CA-CB	6.22	1.61	1.54
1	w	125	PRO	C-N	6.22	1.41	1.33
1	gq	30	LYS	N-CA	6.22	1.54	1.46
1	gz	200	THR	CA-C	-6.22	1.45	1.52
1	gA	158	LYS	N-CA	-6.22	1.38	1.46
1	gU	218	CYS	CA-CB	6.22	1.64	1.53
1	h6	184	TRP	CA-CB	6.22	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hb	69	LEU	N-CA	-6.22	1.38	1.46
1	hm	154	ARG	CD-NE	6.22	1.54	1.46
1	hO	82	ARG	CD-NE	6.22	1.54	1.46
1	hO	121	ASN	CA-CB	6.22	1.60	1.53
1	jQ	147	PRO	CA-C	-6.22	1.45	1.52
1	jU	86	VAL	CA-C	6.22	1.61	1.52
1	kr	167	ARG	CA-CB	6.22	1.62	1.53
1	kB	27	VAL	C-O	-6.22	1.16	1.24
1	l7	47	ALA	CA-C	-6.22	1.45	1.52
1	2e	143	ARG	NE-CZ	6.22	1.39	1.33
1	2l	161	PHE	CA-C	6.22	1.61	1.52
1	36	197	ASP	CA-C	6.22	1.60	1.52
1	36	230	VAL	CA-C	-6.22	1.45	1.52
1	3e	173	ARG	CD-NE	6.22	1.54	1.46
1	3W	191	VAL	CA-C	-6.22	1.44	1.52
1	44	129	ILE	CA-CB	6.22	1.62	1.54
1	5z	95	GLN	CA-C	6.22	1.60	1.52
1	6G	63	GLN	C-N	6.22	1.42	1.33
1	7n	220	GLY	C-N	6.22	1.41	1.33
1	7q	163	ASP	CA-C	-6.22	1.45	1.52
1	7x	171	THR	CA-C	6.22	1.60	1.52
1	8G	111	LEU	C-N	6.22	1.41	1.33
1	9y	10	MET	C-N	6.22	1.41	1.33
1	aO	55	MET	C-N	6.22	1.42	1.33
1	by	14	ALA	CA-C	6.22	1.60	1.52
1	bH	18	ARG	CA-C	-6.22	1.45	1.52
1	1b	106	GLY	C-N	6.22	1.41	1.33
1	ch	17	PRO	CA-C	6.22	1.61	1.52
1	1h	109	SER	CA-CB	6.22	1.64	1.53
1	1h	130	TYR	CB-CG	6.22	1.65	1.51
1	cY	83	LEU	C-O	-6.22	1.17	1.24
1	d2	186	THR	C-O	-6.22	1.17	1.24
1	dw	121	ASN	CA-C	-6.22	1.47	1.52
1	e8	87	HIS	C-N	6.22	1.41	1.33
1	ec	42	ALA	N-CA	6.22	1.53	1.46
1	el	22	ALA	C-N	6.22	1.42	1.33
1	fa	29	GLU	CA-C	-6.22	1.45	1.53
1	fO	84	HIS	N-CA	6.22	1.53	1.46
1	1A	120	HIS	CA-CB	6.22	1.63	1.53
1	1B	229	ARG	CA-C	-6.22	1.45	1.52
1	C	107	THR	N-CA	-6.22	1.38	1.46
1	gC	148	THR	CA-C	6.21	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gT	66	MET	CA-C	6.21	1.61	1.52
1	gT	184	TRP	NE1-CE2	-6.21	1.30	1.37
1	he	84	HIS	CG-CD2	6.21	1.42	1.35
1	hH	111	LEU	CA-CB	6.21	1.63	1.53
1	1P	145	TYR	CA-C	6.21	1.60	1.52
1	iv	208	ALA	C-N	6.21	1.41	1.33
1	iJ	55	MET	CA-CB	6.21	1.62	1.53
1	jw	175	GLU	N-CA	6.21	1.53	1.46
1	k8	46	GLY	CA-C	6.21	1.60	1.51
1	kn	4	GLN	C-N	6.21	1.42	1.33
1	kF	178	SER	N-CA	6.21	1.54	1.45
1	kN	70	LYS	N-CA	-6.21	1.38	1.46
1	kO	3	VAL	CA-C	6.21	1.59	1.52
1	kX	119	THR	CA-C	6.21	1.60	1.52
1	lP	18	ARG	N-CA	6.21	1.54	1.46
1	2A	2	ILE	CB-CG1	6.21	1.65	1.53
1	3c	185	MET	C-O	6.21	1.31	1.24
1	3V	35	GLU	C-N	6.21	1.41	1.33
1	4o	115	ILE	CA-CB	-6.21	1.46	1.54
1	4w	86	VAL	CA-C	6.21	1.59	1.52
1	4S	82	ARG	C-N	6.21	1.41	1.33
1	5k	100	ARG	CD-NE	6.21	1.54	1.46
1	6g	15	ILE	C-O	-6.21	1.16	1.24
1	6i	117	TRP	N-CA	6.21	1.54	1.46
1	87	121	ASN	N-CA	-6.21	1.39	1.46
1	8Q	176	GLN	CA-CB	6.21	1.63	1.53
1	96	140	LYS	CA-C	6.21	1.60	1.52
1	9h	201	ILE	CA-CB	-6.21	1.46	1.54
1	9C	202	LEU	C-N	6.21	1.41	1.33
1	aI	15	ILE	CA-CB	6.21	1.61	1.54
1	bE	38	PRO	CA-C	-6.21	1.43	1.52
1	bN	66	MET	CA-CB	6.21	1.63	1.53
1	bY	21	ASN	C-N	6.21	1.42	1.33
1	cl	30	LYS	N-CA	6.21	1.51	1.46
1	cz	4	GLN	CA-CB	6.21	1.63	1.53
1	d8	229	ARG	CD-NE	6.21	1.54	1.46
1	da	24	VAL	CA-C	6.21	1.60	1.52
1	ds	155	GLN	N-CA	6.21	1.53	1.46
1	dV	133	TRP	C-N	6.21	1.41	1.33
1	eo	190	LEU	CA-CB	6.21	1.63	1.53
1	eT	14	ALA	CA-C	6.21	1.61	1.52
1	eU	100	ARG	CD-NE	6.21	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f8	113	GLU	CA-C	6.21	1.61	1.52
1	fg	224	PRO	CA-CB	-6.21	1.45	1.53
1	fm	2	ILE	CA-C	6.21	1.60	1.52
1	fE	109	SER	CA-C	-6.21	1.45	1.52
1	fG	64	ALA	C-N	6.21	1.42	1.33
1	g4	86	VAL	CA-CB	-6.21	1.46	1.54
1	g7	226	HIS	CE1-NE2	6.21	1.38	1.32
1	j	230	VAL	CA-CB	6.21	1.61	1.54
1	A	75	GLU	C-O	-6.21	1.17	1.24
1	S	90	PRO	C-N	6.21	1.41	1.33
1	gl	181	VAL	C-N	6.21	1.42	1.33
1	iJ	8	GLY	CA-C	-6.21	1.44	1.52
1	jt	18	ARG	C-O	-6.21	1.16	1.24
1	jt	41	SER	CA-C	-6.21	1.44	1.52
1	jM	69	LEU	CA-C	6.21	1.60	1.52
1	3q	51	ASP	CA-CB	6.21	1.63	1.53
1	4F	189	LEU	N-CA	-6.21	1.39	1.46
1	5t	110	THR	N-CA	6.21	1.53	1.45
1	6J	27	VAL	CA-C	-6.21	1.44	1.52
1	8n	59	VAL	CA-CB	6.21	1.61	1.54
1	8B	37	ILE	CA-CB	6.21	1.57	1.54
1	94	111	LEU	C-N	6.21	1.42	1.33
1	9i	33	SER	CA-C	-6.21	1.45	1.53
1	aL	184	TRP	C-O	-6.21	1.16	1.24
1	c0	183	ASN	CA-C	6.21	1.60	1.52
1	cV	113	GLU	C-N	6.21	1.41	1.33
1	cY	111	LEU	N-CA	6.21	1.53	1.46
1	dE	47	ALA	CA-C	-6.21	1.44	1.52
1	eL	160	PRO	CA-C	-6.21	1.45	1.52
1	gy	208	ALA	CA-C	6.21	1.61	1.52
1	gF	47	ALA	CA-C	6.21	1.61	1.52
1	gW	140	LYS	CA-C	6.21	1.60	1.52
1	h5	53	ASN	N-CA	6.21	1.54	1.46
1	hn	49	PRO	N-CA	-6.21	1.39	1.47
1	hs	33	SER	CA-C	-6.21	1.45	1.53
1	1L	113	GLU	N-CA	6.21	1.53	1.46
1	hR	62	HIS	CE1-NE2	6.21	1.38	1.32
1	i9	121	ASN	N-CA	-6.21	1.40	1.46
1	i9	230	VAL	N-CA	-6.21	1.38	1.46
1	iK	184	TRP	N-CA	-6.21	1.38	1.46
1	iT	131	LYS	CA-CB	6.21	1.62	1.53
1	jd	133	TRP	NE1-CE2	6.21	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ji	125	PRO	CA-CB	6.21	1.61	1.53
1	kl	14	ALA	C-N	6.21	1.41	1.33
1	kJ	53	ASN	CA-C	6.21	1.60	1.52
1	lf	65	ALA	CA-C	6.21	1.61	1.52
1	lK	227	LYS	C-N	6.21	1.41	1.33
1	2u	11	VAL	CA-CB	6.21	1.61	1.53
1	2K	128	GLU	N-CA	-6.21	1.39	1.46
1	3R	95	GLN	C-N	6.21	1.42	1.33
1	4d	62	HIS	ND1-CE1	6.21	1.38	1.32
1	4k	31	ALA	CA-C	6.21	1.61	1.52
1	50	124	ILE	N-CA	-6.21	1.39	1.46
1	5C	202	LEU	CA-CB	6.21	1.63	1.53
1	6v	80	TRP	N-CA	-6.21	1.39	1.46
1	83	53	ASN	CA-C	6.21	1.61	1.52
1	8d	87	HIS	ND1-CE1	6.21	1.38	1.32
1	8h	191	VAL	N-CA	6.21	1.53	1.46
1	8m	186	THR	N-CA	6.21	1.53	1.46
1	8J	131	LYS	CA-C	-6.21	1.44	1.52
1	9X	42	ALA	CA-C	-6.21	1.44	1.52
1	Z	173	ARG	CD-NE	6.21	1.54	1.46
1	a1	182	LYS	N-CA	6.21	1.53	1.46
1	aq	37	ILE	CA-CB	6.21	1.57	1.54
1	12	77	ALA	C-N	6.21	1.41	1.33
1	b6	195	ASN	CA-C	6.21	1.60	1.53
1	b9	78	ALA	N-CA	6.21	1.53	1.46
1	19	193	ASN	CA-CB	-6.21	1.44	1.53
1	bE	202	LEU	N-CA	6.21	1.53	1.46
1	1a	184	TRP	CA-CB	6.21	1.62	1.53
1	ci	94	GLY	CA-C	-6.21	1.42	1.51
1	ci	189	LEU	C-N	6.21	1.41	1.33
1	ck	49	PRO	N-CD	-6.21	1.39	1.47
1	cl	133	TRP	NE1-CE2	6.21	1.44	1.37
1	co	102	SER	C-N	6.21	1.42	1.33
1	cF	22	ALA	N-CA	-6.21	1.38	1.46
1	d0	38	PRO	N-CA	-6.21	1.39	1.47
1	dk	39	MET	CA-C	6.21	1.61	1.52
1	e3	134	ILE	N-CA	6.21	1.53	1.46
1	ei	78	ALA	N-CA	-6.21	1.38	1.46
1	eu	122	PRO	N-CD	-6.21	1.39	1.47
1	f7	13	GLN	CA-CB	6.21	1.62	1.53
1	1x	33	SER	N-CA	6.21	1.51	1.46
1	fN	88	ALA	CA-C	6.21	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g5	24	VAL	CA-C	6.21	1.60	1.52
1	K	179	GLN	CA-C	-6.21	1.44	1.52
1	4	89	GLY	C-N	6.21	1.41	1.33
1	T	155	GLN	CA-CB	6.21	1.60	1.53
1	gA	50	GLN	C-O	-6.21	1.16	1.24
1	ha	52	LEU	N-CA	-6.21	1.39	1.46
1	io	131	LYS	N-CA	-6.21	1.38	1.46
1	iE	117	TRP	NE1-CE2	-6.21	1.30	1.37
1	iV	18	ARG	C-N	6.21	1.42	1.33
1	jj	203	LYS	CA-C	6.21	1.61	1.52
1	kC	62	HIS	CE1-NE2	6.21	1.38	1.32
1	lz	39	MET	CA-CB	6.21	1.62	1.53
1	3a	139	ASN	C-N	-6.21	1.26	1.33
1	6r	175	GLU	CA-CB	6.21	1.62	1.53
1	6z	94	GLY	C-O	-6.21	1.15	1.23
1	6H	143	ARG	N-CA	-6.21	1.39	1.46
1	6K	210	THR	C-N	6.21	1.42	1.33
1	73	15	ILE	C-N	6.21	1.42	1.33
1	79	215	MET	N-CA	-6.21	1.37	1.46
1	7I	116	GLY	N-CA	6.21	1.53	1.45
1	8r	86	VAL	N-CA	-6.21	1.38	1.46
1	8I	2	ILE	N-CA	6.21	1.54	1.46
1	aB	127	GLY	CA-C	-6.21	1.45	1.52
1	bv	125	PRO	CA-C	-6.21	1.47	1.53
1	ct	69	LEU	CA-C	6.21	1.60	1.52
1	cz	198	CYS	C-N	6.21	1.42	1.33
1	eu	83	LEU	CA-CB	6.21	1.61	1.53
1	eH	117	TRP	NE1-CE2	-6.21	1.30	1.37
1	eR	121	ASN	CA-C	6.21	1.59	1.52
1	fT	95	GLN	C-N	6.21	1.41	1.33
1	gC	5	ASN	N-CA	-6.21	1.38	1.46
1	gH	134	ILE	C-O	-6.21	1.17	1.24
1	gX	208	ALA	N-CA	6.21	1.53	1.46
1	gZ	224	PRO	N-CA	-6.21	1.39	1.47
1	hb	184	TRP	N-CA	-6.21	1.39	1.46
1	hm	18	ARG	CD-NE	6.21	1.54	1.46
1	hJ	222	GLY	CA-C	-6.21	1.43	1.51
1	i5	25	LYS	CA-C	6.21	1.61	1.52
1	iq	140	LYS	CA-CB	6.21	1.63	1.53
1	iP	87	HIS	CG-ND1	6.21	1.45	1.38
1	jd	220	GLY	CA-C	-6.21	1.43	1.51
1	je	24	VAL	N-CA	6.21	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kN	158	LYS	CA-C	-6.21	1.44	1.52
1	kQ	177	ALA	CA-C	6.21	1.61	1.52
1	kV	98	GLU	CA-C	6.21	1.60	1.52
1	lg	46	GLY	N-CA	6.21	1.54	1.45
1	lh	154	ARG	CD-NE	6.21	1.54	1.46
1	lQ	88	ALA	CA-C	6.21	1.60	1.52
1	2p	220	GLY	C-N	6.21	1.41	1.33
1	2E	87	HIS	N-CA	-6.21	1.38	1.46
1	4q	23	TRP	NE1-CE2	-6.21	1.30	1.37
1	5d	170	LYS	CA-CB	6.21	1.62	1.53
1	5q	55	MET	C-O	-6.21	1.16	1.24
1	6X	67	GLN	CA-C	6.21	1.60	1.52
1	7Q	40	PHE	CA-C	-6.21	1.44	1.52
1	7R	217	ALA	N-CA	6.21	1.53	1.46
1	81	177	ALA	N-CA	6.21	1.53	1.45
1	8g	177	ALA	N-CA	6.21	1.54	1.45
1	8s	224	PRO	CA-C	-6.21	1.43	1.52
1	8M	138	LEU	C-O	-6.21	1.16	1.24
1	9g	143	ARG	CD-NE	6.21	1.54	1.46
1	9B	215	MET	C-N	6.21	1.42	1.33
1	a6	187	GLU	CA-CB	6.21	1.63	1.53
1	a8	166	ASP	CA-CB	6.21	1.62	1.53
1	ao	84	HIS	ND1-CE1	6.21	1.38	1.32
1	ar	143	ARG	NE-CZ	6.21	1.39	1.33
1	aN	226	HIS	CE1-NE2	6.21	1.38	1.32
1	aW	226	HIS	CD2-NE2	-6.21	1.31	1.37
1	ba	158	LYS	N-CA	-6.21	1.37	1.45
1	bt	217	ALA	N-CA	-6.21	1.38	1.45
1	bw	12	HIS	CA-C	-6.21	1.44	1.52
1	c5	158	LYS	CA-C	-6.21	1.45	1.52
1	1c	170	LYS	N-CA	-6.21	1.39	1.46
1	c6	28	GLU	CA-CB	6.21	1.62	1.53
1	c6	70	LYS	CA-C	6.21	1.60	1.52
1	c7	142	VAL	N-CA	-6.21	1.39	1.46
1	cf	76	GLU	N-CA	6.21	1.53	1.46
1	cf	191	VAL	CA-C	-6.21	1.44	1.52
1	cY	184	TRP	NE1-CE2	-6.21	1.30	1.37
1	d5	47	ALA	N-CA	-6.21	1.38	1.46
1	dp	193	ASN	CA-CB	6.21	1.61	1.53
1	e1	22	ALA	N-CA	6.21	1.53	1.46
1	ei	39	MET	N-CA	-6.21	1.39	1.46
1	en	142	VAL	CA-CB	6.21	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ev	197	ASP	CA-C	6.21	1.60	1.52
1	fa	27	VAL	C-N	6.21	1.41	1.33
1	ff	12	HIS	ND1-CE1	6.21	1.38	1.32
1	fA	91	ILE	N-CA	-6.21	1.38	1.46
1	fY	91	ILE	CA-CB	6.21	1.64	1.55
1	gm	132	ARG	NE-CZ	-6.21	1.26	1.33
1	h5	215	MET	C-N	6.21	1.42	1.33
1	he	185	MET	CA-C	-6.21	1.44	1.52
1	hg	208	ALA	CA-CB	-6.21	1.45	1.54
1	hA	189	LEU	CA-C	6.21	1.60	1.52
1	hH	124	ILE	CA-C	-6.21	1.46	1.53
1	iC	175	GLU	C-N	6.21	1.41	1.33
1	iH	102	SER	N-CA	-6.21	1.38	1.46
1	iX	120	HIS	CB-CG	6.21	1.58	1.50
1	jm	80	TRP	CA-C	6.21	1.61	1.52
1	kW	188	THR	CA-C	6.21	1.60	1.52
1	2n	162	ARG	CD-NE	6.21	1.54	1.46
1	2S	23	TRP	NE1-CE2	-6.21	1.30	1.37
1	2T	195	ASN	C-N	-6.21	1.26	1.34
1	2V	226	HIS	ND1-CE1	6.21	1.38	1.32
1	32	88	ALA	CA-C	-6.21	1.47	1.53
1	41	42	ALA	C-O	-6.21	1.16	1.24
1	57	191	VAL	CA-CB	-6.21	1.46	1.54
1	5p	142	VAL	C-N	6.21	1.42	1.33
1	6l	87	HIS	CG-CD2	6.21	1.42	1.35
1	6m	26	VAL	N-CA	-6.21	1.39	1.46
1	71	120	HIS	ND1-CE1	6.21	1.38	1.32
1	7k	54	THR	CA-CB	6.21	1.63	1.53
1	9D	197	ASP	CA-C	6.21	1.60	1.52
1	9F	81	ASP	CA-CB	6.21	1.63	1.53
1	9H	143	ARG	N-CA	-6.21	1.38	1.46
1	9U	93	PRO	CA-CB	6.21	1.62	1.53
1	9Y	226	HIS	ND1-CE1	6.21	1.38	1.32
1	a8	223	GLY	N-CA	6.21	1.53	1.44
1	az	197	ASP	N-CA	-6.21	1.38	1.46
1	aO	152	ASP	CA-CB	6.21	1.63	1.53
1	aP	206	GLY	N-CA	6.21	1.53	1.44
1	aR	74	ASN	N-CA	-6.21	1.38	1.46
1	bu	56	LEU	CA-CB	6.21	1.62	1.53
1	bu	124	ILE	N-CA	-6.21	1.41	1.46
1	bO	166	ASP	CA-C	6.21	1.60	1.52
1	bP	143	ARG	CD-NE	6.21	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	207	PRO	N-CD	6.21	1.56	1.47
1	c9	168	PHE	CG-CD2	6.21	1.51	1.38
1	cP	138	LEU	CA-CB	6.21	1.63	1.53
1	dj	147	PRO	N-CA	-6.21	1.39	1.47
1	1l	26	VAL	CA-CB	-6.21	1.46	1.54
1	1m	17	PRO	N-CA	-6.21	1.39	1.47
1	eP	61	GLY	CA-C	-6.21	1.43	1.51
1	5	132	ARG	CA-CB	6.21	1.62	1.53
1	it	119	THR	CA-CB	6.21	1.63	1.53
1	js	17	PRO	N-CD	-6.21	1.39	1.47
1	20	144	MET	CA-C	6.21	1.61	1.52
1	kr	212	GLU	N-CA	-6.21	1.38	1.46
1	33	19	THR	N-CA	6.21	1.53	1.46
1	5l	87	HIS	ND1-CE1	6.21	1.38	1.32
1	6w	33	SER	C-N	-6.21	1.27	1.34
1	7G	98	GLU	CA-C	-6.21	1.46	1.53
1	7U	147	PRO	CA-CB	6.21	1.62	1.53
1	8C	132	ARG	CD-NE	6.21	1.54	1.46
1	93	175	GLU	CA-C	-6.21	1.45	1.52
1	9w	44	SER	CA-C	-6.21	1.44	1.52
1	bj	52	LEU	CA-CB	6.21	1.63	1.53
1	dn	220	GLY	N-CA	6.21	1.51	1.45
1	dM	165	VAL	N-CA	6.21	1.53	1.46
1	eG	54	THR	CA-C	6.21	1.61	1.52
1	1w	113	GLU	N-CA	-6.21	1.39	1.46
1	g8	223	GLY	N-CA	6.20	1.53	1.44
1	gc	153	ILE	CA-C	6.20	1.59	1.52
1	gi	44	SER	C-N	6.20	1.42	1.33
1	gC	213	GLU	C-N	6.20	1.41	1.33
1	gT	206	GLY	CA-C	-6.20	1.43	1.51
1	hA	35	GLU	C-N	6.20	1.41	1.33
1	i3	143	ARG	CD-NE	6.20	1.54	1.46
1	ip	140	LYS	C-N	6.20	1.41	1.33
1	iO	205	LEU	CA-CB	6.20	1.62	1.53
1	jh	73	ILE	CA-CB	6.20	1.62	1.54
1	jv	120	HIS	CG-ND1	6.20	1.45	1.38
1	kF	140	LYS	C-N	6.20	1.41	1.33
1	28	212	GLU	CA-CB	6.20	1.62	1.53
1	2e	55	MET	CA-CB	6.20	1.62	1.53
1	2o	37	ILE	N-CA	6.20	1.54	1.46
1	2P	75	GLU	C-O	6.20	1.31	1.24
1	2Z	45	GLU	N-CA	6.20	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3b	12	HIS	CA-C	-6.20	1.45	1.52
1	3c	110	THR	CA-C	-6.20	1.44	1.53
1	3q	84	HIS	CB-CG	6.20	1.58	1.50
1	4x	9	GLN	C-N	6.20	1.41	1.33
1	4L	70	LYS	CA-CB	6.20	1.62	1.53
1	4Y	126	VAL	CA-CB	-6.20	1.45	1.54
1	5I	69	LEU	CA-C	-6.20	1.44	1.52
1	5J	176	GLN	C-O	-6.20	1.16	1.23
1	6l	50	GLN	CA-C	6.20	1.60	1.52
1	6y	93	PRO	C-N	6.20	1.40	1.33
1	7f	41	SER	CA-C	-6.20	1.44	1.52
1	7s	112	GLN	C-N	6.20	1.42	1.33
1	7F	9	GLN	N-CA	6.20	1.53	1.46
1	7P	96	MET	CA-CB	6.20	1.63	1.53
1	7S	184	TRP	CA-CB	6.20	1.62	1.53
1	7W	153	ILE	CA-C	6.20	1.59	1.52
1	8d	157	PRO	N-CA	-6.20	1.39	1.47
1	8m	116	GLY	CA-C	6.20	1.60	1.51
1	92	143	ARG	CD-NE	6.20	1.54	1.46
1	9d	38	PRO	CA-C	6.20	1.60	1.52
1	9h	216	THR	N-CA	6.20	1.54	1.46
1	9u	131	LYS	C-O	-6.20	1.17	1.24
1	9H	117	TRP	C-N	6.20	1.42	1.33
1	ag	194	ALA	CA-C	6.20	1.61	1.52
1	ay	135	ILE	C-N	6.20	1.42	1.33
1	1a	136	LEU	CA-CB	6.20	1.64	1.53
1	ce	142	VAL	C-N	6.20	1.42	1.34
1	cw	163	ASP	CA-CB	6.20	1.63	1.53
1	cx	217	ALA	N-CA	6.20	1.54	1.45
1	d7	120	HIS	ND1-CE1	6.20	1.38	1.32
1	db	203	LYS	N-CA	6.20	1.54	1.46
1	dp	79	GLU	C-O	-6.20	1.16	1.24
1	du	184	TRP	NE1-CE2	-6.20	1.30	1.37
1	1n	227	LYS	N-CA	-6.20	1.38	1.46
1	1o	64	ALA	N-CA	-6.20	1.38	1.46
1	e2	202	LEU	CA-CB	6.20	1.63	1.53
1	fu	51	ASP	CA-C	-6.20	1.45	1.52
1	fx	113	GLU	CA-C	6.20	1.60	1.52
1	fE	37	ILE	C-O	6.20	1.29	1.24
1	1z	138	LEU	CA-CB	6.20	1.63	1.53
1	t	24	VAL	CA-CB	-6.20	1.46	1.54
1	t	204	ALA	CA-C	6.20	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	100	ARG	C-N	6.20	1.42	1.33
1	gg	70	LYS	N-CA	-6.20	1.39	1.46
1	gX	226	HIS	ND1-CE1	6.20	1.38	1.32
1	1N	213	GLU	CA-C	6.20	1.61	1.52
1	iC	179	GLN	N-CA	-6.20	1.38	1.46
1	k3	230	VAL	N-CA	-6.20	1.38	1.46
1	kt	153	ILE	CA-CB	-6.20	1.46	1.53
1	kV	123	PRO	CA-CB	6.20	1.62	1.53
1	kY	10	MET	CA-CB	6.20	1.63	1.53
1	l3	129	ILE	CA-C	6.20	1.60	1.52
1	28	61	GLY	N-CA	6.20	1.53	1.45
1	37	139	ASN	CA-CB	6.20	1.62	1.53
1	7A	40	PHE	CA-C	6.20	1.60	1.52
1	8P	44	SER	CA-C	6.20	1.61	1.52
1	90	184	TRP	CD2-CE3	6.20	1.50	1.40
1	9A	143	ARG	C-N	6.20	1.42	1.33
1	9I	143	ARG	CZ-NH2	-6.20	1.25	1.33
1	cy	96	MET	CA-C	6.20	1.61	1.52
1	cF	4	GLN	CA-C	-6.20	1.44	1.52
1	cL	114	GLN	C-O	-6.20	1.17	1.24
1	ec	112	GLN	C-N	6.20	1.42	1.33
1	ek	139	ASN	N-CA	6.20	1.53	1.46
1	fq	180	GLU	N-CA	6.20	1.53	1.46
1	fH	149	SER	CA-C	-6.20	1.45	1.52
1	o	35	GLU	C-N	6.20	1.41	1.33
1	T	63	GLN	CA-CB	6.20	1.62	1.53
1	ga	223	GLY	N-CA	6.20	1.53	1.44
1	gp	178	SER	N-CA	6.20	1.53	1.45
1	hi	3	VAL	CA-CB	6.20	1.61	1.54
1	hZ	197	ASP	C-N	6.20	1.42	1.33
1	i0	173	ARG	NE-CZ	6.20	1.39	1.33
1	i1	95	GLN	CA-C	6.20	1.61	1.53
1	ia	202	LEU	C-N	6.20	1.42	1.33
1	iq	90	PRO	CA-C	6.20	1.60	1.52
1	jI	211	LEU	N-CA	6.20	1.54	1.46
1	k7	230	VAL	CA-C	-6.20	1.45	1.52
1	ki	201	ILE	CA-C	-6.20	1.45	1.52
1	kC	136	LEU	CA-C	6.20	1.61	1.52
1	lN	111	LEU	CA-CB	6.20	1.62	1.53
1	2f	24	VAL	C-N	6.20	1.43	1.33
1	2l	49	PRO	N-CA	-6.20	1.39	1.47
1	2v	86	VAL	C-O	-6.20	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2R	40	PHE	CA-CB	6.20	1.62	1.53
1	2U	141	ILE	CA-C	6.20	1.60	1.52
1	3r	219	GLN	CA-CB	6.20	1.63	1.53
1	3L	173	ARG	C-N	6.20	1.41	1.33
1	46	124	ILE	CA-C	-6.20	1.48	1.53
1	5d	170	LYS	CA-C	-6.20	1.44	1.52
1	5r	23	TRP	CA-C	6.20	1.60	1.52
1	5z	65	ALA	C-N	6.20	1.42	1.34
1	5W	15	ILE	CA-CB	6.20	1.60	1.54
1	6q	181	VAL	CA-C	6.20	1.60	1.52
1	8G	139	ASN	CA-C	6.20	1.61	1.52
1	8Q	150	ILE	C-N	6.20	1.41	1.33
1	98	73	ILE	C-O	-6.20	1.17	1.24
1	9a	100	ARG	CA-CB	6.20	1.62	1.53
1	am	188	THR	CA-C	-6.20	1.44	1.52
1	bG	33	SER	C-N	-6.20	1.25	1.33
1	bG	135	ILE	CA-C	6.20	1.60	1.52
1	bK	115	ILE	CA-CB	6.20	1.62	1.54
1	cn	14	ALA	CA-CB	6.20	1.64	1.53
1	co	85	PRO	N-CA	-6.20	1.39	1.47
1	cy	194	ALA	CA-C	6.20	1.60	1.52
1	cD	105	ALA	C-N	6.20	1.41	1.33
1	cP	201	ILE	C-N	6.20	1.42	1.33
1	cZ	72	THR	N-CA	6.20	1.53	1.46
1	dn	2	ILE	N-CA	-6.20	1.38	1.46
1	dC	79	GLU	C-N	6.20	1.42	1.33
1	dN	26	VAL	C-O	-6.20	1.17	1.24
1	ek	123	PRO	C-N	6.20	1.38	1.33
1	eI	143	ARG	CA-CB	6.20	1.62	1.53
1	eR	115	ILE	N-CA	-6.20	1.39	1.46
1	eZ	107	THR	CA-CB	6.20	1.63	1.53
1	f4	229	ARG	CA-CB	6.20	1.62	1.53
1	f5	84	HIS	CA-CB	6.20	1.61	1.52
1	f9	28	GLU	CA-C	6.20	1.60	1.52
1	fg	140	LYS	N-CA	6.20	1.53	1.46
1	fq	161	PHE	N-CA	6.20	1.54	1.46
1	g2	101	GLY	N-CA	6.20	1.53	1.45
1	t	56	LEU	CA-CB	6.20	1.62	1.53
1	gh	82	ARG	CD-NE	6.20	1.54	1.46
1	gw	93	PRO	N-CD	6.20	1.56	1.47
1	hL	198	CYS	CA-C	6.20	1.61	1.52
1	ik	136	LEU	CA-C	6.20	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iV	75	GLU	CA-CB	6.20	1.62	1.53
1	j9	193	ASN	CA-C	6.20	1.61	1.52
1	ja	41	SER	CA-C	6.20	1.60	1.52
1	jk	69	LEU	N-CA	-6.20	1.38	1.46
1	jl	143	ARG	CD-NE	6.20	1.54	1.46
1	jM	155	GLN	CA-C	-6.20	1.44	1.52
1	jT	143	ARG	C-N	6.20	1.41	1.33
1	k1	167	ARG	CD-NE	6.20	1.54	1.46
1	ku	38	PRO	CA-C	6.20	1.61	1.52
1	ky	40	PHE	N-CA	6.20	1.53	1.46
1	kL	145	TYR	CA-CB	6.20	1.62	1.53
1	kV	1	PRO	N-CD	6.20	1.56	1.47
1	l6	77	ALA	CA-C	-6.20	1.44	1.52
1	l7	213	GLU	CA-C	6.20	1.60	1.52
1	lF	131	LYS	CA-CB	6.20	1.63	1.53
1	lH	92	GLU	CA-C	6.20	1.60	1.52
1	lQ	129	ILE	N-CA	6.20	1.53	1.46
1	33	190	LEU	CA-CB	6.20	1.62	1.53
1	3e	7	GLN	N-CA	6.20	1.53	1.46
1	3j	9	GLN	CA-C	-6.20	1.44	1.52
1	4H	168	PHE	C-N	6.20	1.42	1.34
1	5n	92	GLU	C-O	-6.20	1.15	1.24
1	5Z	189	LEU	CA-C	6.20	1.61	1.52
1	68	45	GLU	CA-CB	6.20	1.61	1.53
1	6s	163	ASP	C-N	6.20	1.41	1.33
1	6t	104	ILE	N-CA	6.20	1.53	1.46
1	6D	120	HIS	ND1-CE1	6.20	1.38	1.32
1	6Y	67	GLN	N-CA	-6.20	1.38	1.46
1	70	18	ARG	CD-NE	6.20	1.54	1.46
1	78	100	ARG	CA-CB	6.20	1.63	1.53
1	7a	187	GLU	C-N	6.20	1.41	1.33
1	7m	173	ARG	NE-CZ	6.20	1.39	1.33
1	7J	47	ALA	CA-C	6.20	1.60	1.52
1	7V	68	MET	CA-CB	6.20	1.62	1.53
1	8C	77	ALA	CA-CB	6.20	1.62	1.53
1	8Y	17	PRO	C-N	6.20	1.42	1.33
1	9I	206	GLY	N-CA	6.20	1.53	1.44
1	9Q	68	MET	CA-CB	6.20	1.63	1.53
1	9S	32	PHE	CA-C	6.20	1.61	1.52
1	bj	50	GLN	CA-CB	6.20	1.62	1.53
1	bC	203	LYS	N-CA	6.20	1.53	1.46
1	cp	136	LEU	N-CA	6.20	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cK	144	MET	CA-CB	6.20	1.62	1.53
1	1o	174	ALA	C-N	6.20	1.41	1.33
1	eu	15	ILE	CA-CB	-6.20	1.47	1.54
1	fB	120	HIS	CD2-NE2	6.20	1.44	1.37
1	fI	201	ILE	CA-C	6.20	1.60	1.52
1	fQ	64	ALA	CA-C	6.20	1.60	1.52
1	a	66	MET	CA-CB	6.20	1.63	1.53
1	z	133	TRP	NE1-CE2	-6.20	1.30	1.37
1	O	90	PRO	CA-CB	6.20	1.62	1.53
1	gL	155	GLN	CA-CB	6.20	1.62	1.53
1	he	139	ASN	CA-CB	6.20	1.62	1.53
1	hK	52	LEU	N-CA	-6.20	1.39	1.46
1	i0	99	PRO	N-CA	-6.20	1.39	1.47
1	i8	163	ASP	N-CA	6.20	1.53	1.46
1	kH	4	GLN	CA-C	6.20	1.60	1.52
1	lK	2	ILE	N-CA	-6.20	1.39	1.46
1	2U	55	MET	C-N	6.20	1.42	1.34
1	33	141	ILE	CA-CB	-6.20	1.46	1.54
1	3c	154	ARG	N-CA	-6.20	1.38	1.46
1	3P	168	PHE	CA-CB	6.20	1.63	1.53
1	ap	102	SER	CA-CB	6.20	1.62	1.53
1	cc	16	SER	CA-CB	6.20	1.63	1.53
1	cp	104	ILE	CA-C	6.20	1.60	1.52
1	cq	4	GLN	C-N	6.20	1.41	1.33
1	e2	105	ALA	C-N	6.20	1.41	1.33
1	eE	138	LEU	C-N	6.20	1.42	1.33
1	1w	123	PRO	CA-C	-6.20	1.44	1.52
1	fk	4	GLN	N-CA	-6.20	1.38	1.46
1	fC	98	GLU	CA-C	6.20	1.59	1.52
1	fZ	34	PRO	CA-C	6.20	1.61	1.52
1	gy	50	GLN	C-N	6.20	1.41	1.33
1	gJ	109	SER	N-CA	6.20	1.53	1.45
1	gK	127	GLY	CA-C	-6.20	1.45	1.52
1	gQ	122	PRO	C-N	6.20	1.41	1.33
1	hg	195	ASN	C-N	6.20	1.42	1.34
1	hk	41	SER	C-N	6.20	1.41	1.33
1	hv	194	ALA	CA-C	6.20	1.61	1.53
1	i3	100	ARG	CA-CB	6.20	1.62	1.53
1	i6	119	THR	C-N	6.20	1.42	1.33
1	ig	98	GLU	CA-C	6.20	1.60	1.53
1	j2	27	VAL	CA-C	6.20	1.60	1.52
1	j3	88	ALA	N-CA	6.20	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kz	10	MET	CA-C	6.20	1.61	1.52
1	kP	153	ILE	N-CA	-6.20	1.38	1.46
1	l0	160	PRO	CA-C	-6.20	1.44	1.52
1	lc	43	LEU	CB-CG	6.20	1.65	1.53
1	lo	180	GLU	CA-C	6.20	1.60	1.52
1	2b	73	ILE	CA-C	6.20	1.60	1.52
1	2z	67	GLN	CA-C	-6.20	1.44	1.52
1	2I	120	HIS	ND1-CE1	6.20	1.38	1.32
1	2X	196	PRO	N-CA	-6.20	1.39	1.47
1	33	123	PRO	CA-C	6.20	1.60	1.52
1	3O	154	ARG	CA-CB	6.20	1.62	1.53
1	48	79	GLU	C-N	6.20	1.42	1.33
1	4N	160	PRO	CA-C	6.20	1.61	1.52
1	54	141	ILE	CA-CB	-6.20	1.46	1.54
1	5Z	85	PRO	C-N	6.20	1.41	1.33
1	6b	51	ASP	C-N	6.20	1.42	1.34
1	6J	133	TRP	N-CA	-6.20	1.38	1.46
1	6J	171	THR	CA-CB	-6.20	1.43	1.53
1	6T	41	SER	CA-CB	6.20	1.63	1.53
1	8J	170	LYS	N-CA	6.20	1.53	1.46
1	8L	208	ALA	N-CA	-6.20	1.38	1.46
1	8N	75	GLU	CA-CB	6.20	1.63	1.53
1	9t	61	GLY	CA-C	-6.20	1.43	1.52
1	9y	97	ARG	CD-NE	6.20	1.54	1.46
1	9L	53	ASN	CA-CB	6.20	1.63	1.53
1	a3	123	PRO	N-CD	-6.20	1.39	1.47
1	aq	91	ILE	CA-CB	6.20	1.61	1.54
1	au	20	LEU	CA-CB	6.20	1.62	1.53
1	ax	97	ARG	CA-C	6.20	1.60	1.52
1	bb	6	LEU	N-CA	6.20	1.52	1.46
1	bh	97	ARG	CD-NE	6.20	1.54	1.46
1	cC	2	ILE	C-N	6.20	1.41	1.33
1	cX	33	SER	C-N	6.20	1.42	1.34
1	dl	172	LEU	CA-C	6.20	1.60	1.52
1	f2	104	ILE	CA-CB	-6.20	1.46	1.54
1	fB	228	ALA	CA-C	6.20	1.60	1.52
1	1y	148	THR	CA-C	6.20	1.61	1.52
1	n	142	VAL	N-CA	-6.20	1.39	1.46
1	t	173	ARG	CA-C	-6.20	1.44	1.52
1	F	67	GLN	N-CA	6.20	1.54	1.46
1	8	40	PHE	CA-CB	6.20	1.63	1.53
1	gG	15	ILE	C-O	-6.19	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h0	205	LEU	CA-CB	6.19	1.63	1.53
1	h1	123	PRO	CA-CB	-6.19	1.45	1.53
1	h4	74	ASN	CA-CB	6.19	1.63	1.53
1	i7	187	GLU	CA-C	6.19	1.60	1.52
1	iA	124	ILE	CA-C	-6.19	1.48	1.53
1	kO	177	ALA	N-CA	-6.19	1.38	1.45
1	lM	206	GLY	C-N	6.19	1.41	1.34
1	lN	209	ALA	CA-C	6.19	1.60	1.52
1	2h	12	HIS	ND1-CE1	6.19	1.38	1.32
1	3s	211	LEU	CA-CB	6.19	1.62	1.53
1	4T	55	MET	N-CA	-6.19	1.38	1.46
1	5o	183	ASN	N-CA	6.19	1.53	1.46
1	5t	147	PRO	C-N	6.19	1.42	1.33
1	5u	40	PHE	CA-C	6.19	1.60	1.52
1	5u	202	LEU	CB-CG	6.19	1.65	1.53
1	6w	227	LYS	C-N	6.19	1.42	1.33
1	8j	146	SER	CA-C	6.19	1.59	1.53
1	bd	158	LYS	CA-C	-6.19	1.44	1.52
1	eI	107	THR	N-CA	6.19	1.53	1.46
1	gm	134	ILE	CA-CB	6.19	1.61	1.54
1	gm	220	GLY	CA-C	-6.19	1.43	1.51
1	gp	51	ASP	N-CA	6.19	1.53	1.46
1	gB	93	PRO	C-N	6.19	1.41	1.33
1	gU	217	ALA	CA-C	-6.19	1.45	1.52
1	hb	62	HIS	CE1-NE2	6.19	1.38	1.32
1	ho	132	ARG	CA-CB	6.19	1.63	1.53
1	ht	83	LEU	C-N	6.19	1.41	1.33
1	hT	17	PRO	N-CD	6.19	1.56	1.47
1	i0	74	ASN	CA-CB	6.19	1.62	1.53
1	i8	156	GLY	N-CA	6.19	1.53	1.44
1	ia	162	ARG	CD-NE	6.19	1.54	1.46
1	1O	35	GLU	N-CA	-6.19	1.38	1.46
1	iA	158	LYS	CA-CB	6.19	1.61	1.53
1	iB	27	VAL	CA-C	-6.19	1.45	1.52
1	jd	185	MET	N-CA	6.19	1.53	1.46
1	jj	155	GLN	CA-C	-6.19	1.44	1.52
1	jx	195	ASN	CA-CB	6.19	1.62	1.53
1	kd	204	ALA	CA-CB	-6.19	1.42	1.53
1	kf	209	ALA	N-CA	-6.19	1.37	1.45
1	ks	170	LYS	N-CA	6.19	1.53	1.46
1	kB	33	SER	CA-C	-6.19	1.46	1.52
1	kQ	132	ARG	CA-CB	6.19	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l4	131	LYS	CA-C	-6.19	1.44	1.52
1	l5	112	GLN	C-N	6.19	1.42	1.33
1	lx	64	ALA	CA-C	6.19	1.60	1.52
1	lJ	182	LYS	C-N	6.19	1.42	1.33
1	2M	23	TRP	CA-C	-6.19	1.44	1.52
1	3G	1	PRO	N-CA	6.19	1.56	1.47
1	47	20	LEU	CA-C	-6.19	1.44	1.52
1	4r	120	HIS	CE1-NE2	6.19	1.38	1.32
1	4D	226	HIS	CG-ND1	6.19	1.45	1.38
1	55	10	MET	CA-CB	6.19	1.62	1.53
1	5g	113	GLU	CA-C	6.19	1.60	1.52
1	61	143	ARG	CD-NE	6.19	1.54	1.46
1	6b	199	LYS	CA-CB	6.19	1.63	1.53
1	6c	202	LEU	CA-CB	6.19	1.63	1.53
1	7p	67	GLN	CA-C	6.19	1.60	1.52
1	7C	44	SER	C-N	6.19	1.42	1.33
1	91	131	LYS	CA-CB	6.19	1.62	1.53
1	am	126	VAL	C-N	6.19	1.41	1.33
1	aB	226	HIS	CA-CB	6.19	1.61	1.53
1	aO	82	ARG	CA-C	-6.19	1.44	1.52
1	bm	119	THR	CA-C	-6.19	1.44	1.52
1	1d	137	GLY	N-CA	6.19	1.53	1.45
1	cP	18	ARG	CA-CB	6.19	1.62	1.53
1	cP	183	ASN	CA-C	6.19	1.60	1.52
1	d4	160	PRO	CA-CB	6.19	1.62	1.53
1	dn	98	GLU	CA-C	6.19	1.60	1.52
1	dG	182	LYS	C-O	-6.19	1.16	1.24
1	dH	141	ILE	CA-CB	-6.19	1.46	1.54
1	dQ	87	HIS	C-N	6.19	1.42	1.33
1	fw	137	GLY	CA-C	6.19	1.59	1.51
1	fF	26	VAL	C-N	6.19	1.41	1.33
1	fJ	221	VAL	CA-C	6.19	1.60	1.52
1	fP	172	LEU	CA-CB	6.19	1.62	1.53
1	q	62	HIS	CD2-NE2	6.19	1.44	1.37
1	1N	198	CYS	CA-C	6.19	1.60	1.52
1	i5	199	LYS	N-CA	-6.19	1.38	1.46
1	in	111	LEU	CA-C	6.19	1.61	1.52
1	iF	119	THR	CB-OG1	6.19	1.53	1.43
1	iF	140	LYS	N-CA	-6.19	1.38	1.46
1	iR	120	HIS	ND1-CE1	6.19	1.38	1.32
1	j2	20	LEU	CA-C	-6.19	1.44	1.52
1	j2	136	LEU	CA-CB	-6.19	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k1	87	HIS	CA-C	6.19	1.61	1.52
1	kw	10	MET	CA-CB	6.19	1.64	1.53
1	kH	135	ILE	C-N	6.19	1.43	1.33
1	kV	132	ARG	C-N	6.19	1.42	1.34
1	l9	84	HIS	CE1-NE2	-6.19	1.26	1.32
1	li	224	PRO	C-N	6.19	1.42	1.33
1	2q	115	ILE	C-O	-6.19	1.16	1.24
1	37	198	CYS	CA-CB	6.19	1.63	1.53
1	4i	154	ARG	C-N	6.19	1.41	1.33
1	4v	63	GLN	C-N	6.19	1.42	1.33
1	4Z	120	HIS	CB-CG	-6.19	1.41	1.50
1	5a	169	TYR	C-N	6.19	1.41	1.33
1	5t	191	VAL	C-N	6.19	1.42	1.33
1	6a	131	LYS	CA-CB	6.19	1.62	1.53
1	6v	24	VAL	CA-CB	-6.19	1.47	1.54
1	6U	179	GLN	N-CA	6.19	1.53	1.46
1	70	76	GLU	C-N	6.19	1.41	1.33
1	70	217	ALA	CA-C	6.19	1.61	1.53
1	7v	200	THR	CA-C	-6.19	1.44	1.52
1	7z	12	HIS	CE1-NE2	6.19	1.38	1.32
1	7C	10	MET	N-CA	6.19	1.53	1.46
1	7H	137	GLY	CA-C	-6.19	1.45	1.52
1	8D	85	PRO	CA-CB	6.19	1.61	1.53
1	8L	177	ALA	CA-C	6.19	1.60	1.52
1	99	19	THR	CA-C	-6.19	1.44	1.52
1	9k	141	ILE	CA-CB	6.19	1.62	1.54
1	9L	226	HIS	CG-ND1	6.19	1.45	1.38
1	aC	40	PHE	CA-CB	6.19	1.62	1.53
1	16	62	HIS	ND1-CE1	6.19	1.38	1.32
1	ca	90	PRO	N-CA	6.19	1.55	1.47
1	ci	72	THR	C-N	6.19	1.41	1.33
1	cp	81	ASP	N-CA	6.19	1.53	1.46
1	ct	3	VAL	CA-C	-6.19	1.45	1.52
1	ct	62	HIS	CE1-NE2	6.19	1.38	1.32
1	cw	72	THR	C-N	-6.19	1.26	1.33
1	dm	199	LYS	CA-CB	6.19	1.63	1.53
1	e8	198	CYS	CA-C	6.19	1.60	1.52
1	ec	204	ALA	N-CA	-6.19	1.39	1.46
1	em	7	GLN	N-CA	6.19	1.54	1.46
1	ep	162	ARG	CA-C	-6.19	1.44	1.52
1	f1	86	VAL	N-CA	6.19	1.53	1.46
1	f1	101	GLY	C-N	-6.19	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f4	126	VAL	CA-C	-6.19	1.44	1.52
1	fb	175	GLU	CA-CB	6.19	1.63	1.53
1	fS	87	HIS	CB-CG	6.19	1.58	1.50
1	fU	182	LYS	N-CA	6.19	1.53	1.46
1	fY	55	MET	CA-C	-6.19	1.45	1.52
1	g5	70	LYS	N-CA	6.19	1.53	1.46
1	t	212	GLU	CA-C	6.19	1.60	1.52
1	M	129	ILE	CA-C	-6.19	1.45	1.52
1	R	121	ASN	CA-C	6.19	1.60	1.52
1	X	58	THR	C-N	-6.19	1.27	1.34
1	hS	53	ASN	N-CA	6.19	1.53	1.46
1	1U	168	PHE	CA-CB	6.19	1.62	1.53
1	jl	25	LYS	CA-CB	6.19	1.63	1.53
1	kZ	13	GLN	N-CA	-6.19	1.38	1.46
1	2C	32	PHE	C-O	-6.19	1.16	1.23
1	3i	99	PRO	CA-CB	6.19	1.61	1.53
1	4f	141	ILE	C-N	6.19	1.41	1.33
1	6m	45	GLU	CA-C	6.19	1.60	1.52
1	7w	62	HIS	CE1-NE2	6.19	1.38	1.32
1	8f	23	TRP	CA-C	6.19	1.60	1.52
1	8X	3	VAL	CA-C	-6.19	1.45	1.52
1	an	87	HIS	ND1-CE1	6.19	1.38	1.32
1	aD	69	LEU	C-N	-6.19	1.25	1.33
1	aU	143	ARG	CA-CB	6.19	1.63	1.53
1	bq	62	HIS	CA-C	6.19	1.61	1.53
1	bB	15	ILE	CA-CB	6.19	1.60	1.54
1	bW	151	LEU	CA-C	6.19	1.60	1.52
1	cD	4	GLN	CA-CB	6.19	1.61	1.53
1	e4	159	GLU	N-CA	-6.19	1.38	1.46
1	eb	131	LYS	CA-C	-6.19	1.45	1.52
1	ey	92	GLU	CA-C	6.19	1.59	1.53
1	eT	66	MET	CA-C	6.19	1.60	1.52
1	fs	100	ARG	CD-NE	6.19	1.54	1.46
1	fK	121	ASN	N-CA	-6.19	1.38	1.46
1	I	23	TRP	NE1-CE2	6.19	1.44	1.37
1	gq	157	PRO	N-CA	6.19	1.55	1.47
1	h9	200	THR	CA-C	-6.19	1.45	1.52
1	hw	62	HIS	CA-C	-6.19	1.45	1.53
1	hy	166	ASP	CA-C	6.19	1.60	1.52
1	ip	99	PRO	CA-CB	6.19	1.61	1.53
1	iu	7	GLN	N-CA	-6.19	1.38	1.46
1	1S	226	HIS	CG-CD2	6.19	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iW	40	PHE	CA-C	-6.19	1.44	1.52
1	jy	79	GLU	CA-C	6.19	1.60	1.52
1	kf	162	ARG	CD-NE	6.19	1.54	1.46
1	kX	120	HIS	CD2-NE2	6.19	1.44	1.37
1	25	218	CYS	C-N	6.19	1.42	1.33
1	2k	53	ASN	N-CA	-6.19	1.38	1.46
1	30	62	HIS	CG-ND1	6.19	1.45	1.38
1	3m	38	PRO	C-N	6.19	1.42	1.33
1	3s	64	ALA	C-N	6.19	1.42	1.33
1	41	99	PRO	C-N	6.19	1.41	1.33
1	4d	25	LYS	CA-C	-6.19	1.44	1.52
1	4P	102	SER	CA-CB	6.19	1.63	1.53
1	4R	184	TRP	N-CA	6.19	1.53	1.46
1	4X	84	HIS	ND1-CE1	6.19	1.38	1.32
1	5I	187	GLU	N-CA	-6.19	1.39	1.46
1	6u	167	ARG	N-CA	-6.19	1.38	1.46
1	7p	109	SER	N-CA	-6.19	1.38	1.45
1	7I	162	ARG	CD-NE	6.19	1.54	1.46
1	7R	102	SER	CA-C	6.19	1.61	1.52
1	7T	23	TRP	CA-C	6.19	1.61	1.52
1	7W	75	GLU	CA-CB	6.19	1.63	1.53
1	7W	164	TYR	CA-CB	6.19	1.62	1.53
1	7X	96	MET	N-CA	-6.19	1.38	1.46
1	8w	84	HIS	CD2-NE2	6.19	1.44	1.37
1	8P	121	ASN	CA-CB	6.19	1.61	1.53
1	9p	207	PRO	CA-C	6.19	1.60	1.52
1	9s	52	LEU	C-N	6.19	1.41	1.33
1	9B	195	ASN	CA-C	6.19	1.59	1.53
1	9K	198	CYS	CA-C	-6.19	1.44	1.52
1	9Y	75	GLU	CA-CB	6.19	1.63	1.53
1	aq	82	ARG	CD-NE	6.19	1.54	1.46
1	12	20	LEU	N-CA	-6.19	1.39	1.46
1	aP	69	LEU	C-N	6.19	1.42	1.33
1	aP	125	PRO	N-CD	-6.19	1.39	1.47
1	b7	106	GLY	CA-C	-6.19	1.43	1.51
1	17	66	MET	CA-C	-6.19	1.45	1.52
1	bm	135	ILE	CA-CB	6.19	1.63	1.54
1	bn	119	THR	N-CA	6.19	1.54	1.46
1	bJ	195	ASN	C-N	6.19	1.41	1.33
1	ct	39	MET	CA-CB	6.19	1.63	1.53
1	1i	158	LYS	CA-C	6.19	1.61	1.52
1	dz	190	LEU	CA-CB	6.19	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e5	12	HIS	ND1-CE1	6.19	1.38	1.32
1	es	166	ASP	CA-CB	6.19	1.62	1.53
1	eA	169	TYR	C-N	6.19	1.42	1.33
1	eD	153	ILE	C-N	6.19	1.41	1.33
1	eF	128	GLU	CA-CB	6.19	1.63	1.53
1	eO	68	MET	CA-CB	6.19	1.63	1.53
1	1t	128	GLU	CA-CB	6.19	1.62	1.53
1	eR	112	GLN	CA-CB	6.19	1.63	1.53
1	fk	49	PRO	N-CA	-6.19	1.39	1.47
1	fu	110	THR	CA-C	-6.19	1.45	1.52
1	fB	196	PRO	C-N	6.19	1.42	1.33
1	fY	43	LEU	CA-CB	6.19	1.63	1.53
1	V	80	TRP	CA-C	6.19	1.60	1.52
1	hJ	208	ALA	N-CA	6.19	1.54	1.46
1	it	188	THR	CA-C	6.19	1.61	1.52
1	iC	95	GLN	CA-C	6.19	1.60	1.53
1	lc	107	THR	CA-C	6.19	1.60	1.52
1	2q	132	ARG	N-CA	6.19	1.53	1.46
1	2y	138	LEU	C-O	-6.19	1.16	1.24
1	4k	18	ARG	CD-NE	6.19	1.54	1.46
1	52	84	HIS	CE1-NE2	6.19	1.38	1.32
1	55	188	THR	N-CA	6.19	1.53	1.46
1	5s	97	ARG	CA-C	-6.19	1.44	1.52
1	5C	226	HIS	CG-CD2	6.19	1.42	1.35
1	83	186	THR	C-O	-6.19	1.17	1.24
1	8k	126	VAL	CA-C	6.19	1.61	1.52
1	8Z	218	CYS	CA-CB	6.19	1.62	1.53
1	9S	210	THR	N-CA	6.19	1.54	1.45
1	a6	56	LEU	CA-CB	6.19	1.62	1.53
1	am	178	SER	C-N	6.19	1.42	1.33
1	e4	109	SER	C-O	6.19	1.31	1.23
1	e7	186	THR	CA-CB	-6.19	1.43	1.53
1	ee	130	TYR	CA-C	6.19	1.60	1.52
1	gb	80	TRP	NE1-CE2	-6.18	1.30	1.37
1	hp	212	GLU	N-CA	-6.18	1.38	1.46
1	iB	96	MET	N-CA	-6.18	1.38	1.46
1	jK	147	PRO	CA-CB	6.18	1.62	1.53
1	kb	50	GLN	CA-CB	6.18	1.62	1.53
1	kv	164	TYR	N-CA	6.18	1.53	1.46
1	lb	167	ARG	CD-NE	6.18	1.54	1.46
1	lo	81	ASP	CA-C	-6.18	1.44	1.52
1	lz	99	PRO	CA-CB	6.18	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lM	39	MET	C-N	6.18	1.42	1.33
1	lN	174	ALA	CA-C	6.18	1.60	1.52
1	lQ	172	LEU	N-CA	6.18	1.53	1.46
1	2j	5	ASN	N-CA	6.18	1.53	1.46
1	2B	33	SER	C-N	6.18	1.41	1.34
1	2O	167	ARG	C-N	6.18	1.41	1.33
1	3Q	131	LYS	C-N	6.18	1.42	1.33
1	40	190	LEU	N-CA	-6.18	1.38	1.46
1	41	84	HIS	CD2-NE2	6.18	1.44	1.37
1	46	120	HIS	CD2-NE2	6.18	1.44	1.37
1	48	163	ASP	C-N	6.18	1.42	1.33
1	4m	120	HIS	CE1-NE2	6.18	1.38	1.32
1	4q	126	VAL	CA-CB	-6.18	1.46	1.54
1	4t	142	VAL	CA-CB	-6.18	1.46	1.54
1	57	141	ILE	N-CA	6.18	1.53	1.46
1	68	178	SER	CA-C	-6.18	1.44	1.53
1	6a	180	GLU	C-N	6.18	1.41	1.33
1	6n	140	LYS	CA-C	6.18	1.60	1.52
1	7B	32	PHE	CA-C	6.18	1.60	1.52
1	83	207	PRO	C-N	6.18	1.43	1.33
1	8Y	73	ILE	N-CA	6.18	1.53	1.46
1	9z	9	GLN	CA-C	-6.18	1.45	1.52
1	Y	105	ALA	CA-C	-6.18	1.44	1.52
1	aj	117	TRP	C-N	6.18	1.42	1.34
1	bF	140	LYS	N-CA	6.18	1.53	1.46
1	c3	155	GLN	CA-CB	6.18	1.62	1.53
1	c8	41	SER	CA-C	6.18	1.60	1.52
1	cc	4	GLN	CA-CB	6.18	1.62	1.53
1	cw	50	GLN	C-N	6.18	1.42	1.33
1	cV	50	GLN	C-N	6.18	1.42	1.33
1	dd	114	GLN	CA-C	6.18	1.60	1.52
1	dn	183	ASN	CA-CB	6.18	1.63	1.53
1	dE	217	ALA	N-CA	-6.18	1.37	1.46
1	dO	178	SER	CA-C	-6.18	1.45	1.52
1	dY	87	HIS	CA-CB	6.18	1.63	1.53
1	el	62	HIS	ND1-CE1	-6.18	1.26	1.32
1	ep	100	ARG	CA-CB	6.18	1.62	1.53
1	es	178	SER	CA-CB	6.18	1.63	1.53
1	f1	37	ILE	CA-CB	-6.18	1.51	1.54
1	f6	71	GLU	CA-CB	6.18	1.63	1.53
1	s	10	MET	CA-C	6.18	1.60	1.52
1	X	225	GLY	C-N	6.18	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ga	188	THR	N-CA	6.18	1.54	1.46
1	gN	211	LEU	CA-C	6.18	1.60	1.52
1	i7	144	MET	N-CA	-6.18	1.39	1.46
1	iA	42	ALA	N-CA	6.18	1.53	1.46
1	iI	158	LYS	CA-CB	6.18	1.62	1.53
1	jp	210	THR	CA-C	6.18	1.61	1.52
1	jP	13	GLN	CA-C	6.18	1.60	1.52
1	kJ	128	GLU	CA-C	-6.18	1.44	1.52
1	kR	133	TRP	CA-CB	6.18	1.62	1.53
1	kV	170	LYS	CA-C	-6.18	1.44	1.52
1	lJ	70	LYS	CA-C	-6.18	1.45	1.52
1	lP	37	ILE	C-O	6.18	1.29	1.24
1	2p	192	GLN	CA-C	-6.18	1.44	1.52
1	2u	18	ARG	NE-CZ	6.18	1.39	1.33
1	3z	135	ILE	N-CA	-6.18	1.39	1.46
1	5M	185	MET	C-N	6.18	1.41	1.33
1	66	220	GLY	CA-C	6.18	1.59	1.51
1	6m	196	PRO	CA-C	-6.18	1.43	1.52
1	6o	131	LYS	CA-C	-6.18	1.44	1.52
1	6J	92	GLU	CA-C	6.18	1.61	1.53
1	6N	90	PRO	C-N	-6.18	1.26	1.33
1	71	69	LEU	C-N	6.18	1.42	1.33
1	7g	115	ILE	CA-C	6.18	1.60	1.52
1	7g	170	LYS	CA-CB	6.18	1.62	1.53
1	8a	218	CYS	C-N	6.18	1.41	1.33
1	8G	29	GLU	CA-CB	6.18	1.64	1.54
1	8Q	78	ALA	N-CA	-6.18	1.38	1.46
1	8U	180	GLU	N-CA	-6.18	1.39	1.46
1	99	114	GLN	C-N	6.18	1.41	1.33
1	9L	202	LEU	CA-C	6.18	1.60	1.52
1	Y	108	THR	C-O	-6.18	1.15	1.23
1	a7	212	GLU	CA-C	-6.18	1.44	1.52
1	ad	203	LYS	N-CA	-6.18	1.38	1.46
1	ax	37	ILE	CA-C	6.18	1.58	1.52
1	bW	66	MET	CA-C	6.18	1.60	1.52
1	c1	136	LEU	CA-C	-6.18	1.44	1.52
1	cp	35	GLU	N-CA	-6.18	1.37	1.46
1	cL	51	ASP	N-CA	-6.18	1.39	1.46
1	cQ	115	ILE	N-CA	-6.18	1.39	1.46
1	cY	18	ARG	CD-NE	6.18	1.54	1.46
1	1j	115	ILE	N-CA	-6.18	1.39	1.46
1	do	134	ILE	N-CA	6.18	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	el	96	MET	CA-CB	6.18	1.63	1.53
1	ep	157	PRO	CA-C	6.18	1.61	1.52
1	fI	82	ARG	CD-NE	6.18	1.54	1.46
1	e	3	VAL	N-CA	6.18	1.52	1.46
1	1	132	ARG	CZ-NH2	-6.18	1.25	1.33
1	V	124	ILE	CA-CB	-6.18	1.47	1.53
1	8	96	MET	C-N	6.18	1.41	1.33
1	gg	145	TYR	CA-CB	6.18	1.64	1.53
1	hq	78	ALA	N-CA	-6.18	1.38	1.46
1	hN	127	GLY	CA-C	-6.18	1.45	1.52
1	im	44	SER	N-CA	6.18	1.53	1.46
1	ir	91	ILE	N-CA	-6.18	1.39	1.46
1	iI	82	ARG	CD-NE	6.18	1.54	1.46
1	kB	114	GLN	N-CA	6.18	1.53	1.46
1	ls	113	GLU	CA-CB	6.18	1.63	1.53
1	2e	221	VAL	CA-CB	-6.18	1.46	1.53
1	3D	176	GLN	N-CA	-6.18	1.38	1.46
1	4B	136	LEU	CA-CB	6.18	1.62	1.53
1	65	91	ILE	CA-CB	6.18	1.61	1.54
1	7x	20	LEU	CA-CB	6.18	1.63	1.53
1	83	75	GLU	CA-C	6.18	1.60	1.52
1	8d	7	GLN	CA-C	-6.18	1.44	1.52
1	8A	184	TRP	CA-CB	6.18	1.62	1.53
1	al	50	GLN	CA-C	6.18	1.60	1.52
1	cD	100	ARG	CD-NE	6.18	1.54	1.46
1	cT	89	GLY	CA-C	6.18	1.60	1.51
1	1i	23	TRP	CA-CB	6.18	1.64	1.53
1	eH	70	LYS	C-O	-6.18	1.17	1.24
1	eR	211	LEU	CA-CB	6.18	1.62	1.53
1	f5	144	MET	CA-C	6.18	1.61	1.52
1	fs	12	HIS	ND1-CE1	6.18	1.38	1.32
1	fB	25	LYS	CA-C	6.18	1.60	1.52
1	k	228	ALA	CA-CB	6.18	1.64	1.53
1	gu	195	ASN	CA-CB	6.18	1.61	1.53
1	gz	43	LEU	CA-CB	6.18	1.63	1.53
1	gD	226	HIS	ND1-CE1	6.18	1.38	1.32
1	hl	22	ALA	CA-CB	6.18	1.62	1.53
1	i7	181	VAL	N-CA	-6.18	1.39	1.46
1	ic	41	SER	CA-CB	6.18	1.62	1.53
1	it	226	HIS	N-CA	6.18	1.54	1.46
1	iG	14	ALA	CA-C	6.18	1.61	1.52
1	iG	160	PRO	CA-CB	6.18	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j4	169	TYR	C-N	6.18	1.42	1.33
1	jH	63	GLN	N-CA	-6.18	1.38	1.46
1	kd	11	VAL	N-CA	6.18	1.52	1.46
1	kW	172	LEU	CA-CB	6.18	1.63	1.53
1	le	175	GLU	CA-C	6.18	1.60	1.52
1	2s	110	THR	N-CA	6.18	1.54	1.45
1	2I	46	GLY	CA-C	-6.18	1.43	1.51
1	3e	78	ALA	N-CA	6.18	1.53	1.46
1	3K	103	ASP	N-CA	-6.18	1.38	1.46
1	3W	138	LEU	CA-C	6.18	1.60	1.52
1	4f	208	ALA	C-N	6.18	1.42	1.33
1	4U	71	GLU	CA-C	6.18	1.60	1.52
1	56	138	LEU	CA-CB	6.18	1.62	1.53
1	5A	203	LYS	CA-C	6.18	1.60	1.52
1	6M	113	GLU	CA-C	6.18	1.60	1.52
1	7b	11	VAL	CA-C	-6.18	1.45	1.52
1	7V	193	ASN	CA-CB	6.18	1.61	1.53
1	7Y	9	GLN	N-CA	6.18	1.54	1.46
1	9q	97	ARG	NE-CZ	-6.18	1.26	1.33
1	aF	143	ARG	CD-NE	6.18	1.54	1.46
1	18	203	LYS	CA-C	6.18	1.60	1.52
1	c8	197	ASP	N-CA	6.18	1.53	1.46
1	ct	120	HIS	N-CA	6.18	1.53	1.45
1	cz	65	ALA	C-N	6.18	1.41	1.33
1	cR	218	CYS	CA-C	-6.18	1.47	1.53
1	cS	52	LEU	N-CA	-6.18	1.38	1.46
1	cZ	167	ARG	CA-C	6.18	1.61	1.52
1	cZ	200	THR	N-CA	6.18	1.53	1.46
1	d8	111	LEU	C-N	6.18	1.41	1.33
1	di	111	LEU	CA-CB	6.18	1.63	1.53
1	1l	74	ASN	CA-CB	6.18	1.63	1.53
1	e7	82	ARG	CD-NE	6.18	1.54	1.46
1	e9	172	LEU	CA-CB	6.18	1.62	1.53
1	eB	72	THR	CA-C	-6.18	1.44	1.52
1	fe	88	ALA	CA-C	6.18	1.60	1.52
1	fe	162	ARG	CD-NE	6.18	1.54	1.46
1	g2	23	TRP	NE1-CE2	-6.18	1.30	1.37
1	f	138	LEU	CA-C	6.18	1.60	1.52
1	i	79	GLU	CA-CB	6.18	1.63	1.53
1	v	161	PHE	C-N	-6.18	1.25	1.33
1	gp	120	HIS	CE1-NE2	6.18	1.38	1.32
1	h3	1	PRO	N-CD	6.18	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hy	119	THR	CA-C	6.18	1.61	1.52
1	if	226	HIS	CE1-NE2	-6.18	1.26	1.32
1	iu	33	SER	C-N	6.18	1.41	1.33
1	j7	129	ILE	CA-CB	-6.18	1.47	1.54
1	jl	3	VAL	C-N	6.18	1.41	1.33
1	kp	133	TRP	CA-CB	6.18	1.62	1.53
1	kC	223	GLY	CA-C	6.18	1.60	1.51
1	kE	87	HIS	CG-CD2	6.18	1.42	1.35
1	l0	36	VAL	CA-C	6.18	1.60	1.52
1	2k	71	GLU	CA-C	-6.18	1.45	1.52
1	3L	167	ARG	CD-NE	6.18	1.54	1.46
1	4K	97	ARG	CD-NE	6.18	1.54	1.46
1	7N	2	ILE	C-N	6.18	1.41	1.33
1	8z	130	TYR	CA-CB	6.18	1.63	1.53
1	b9	12	HIS	ND1-CE1	6.18	1.38	1.32
1	bd	47	ALA	N-CA	-6.18	1.38	1.46
1	c0	93	PRO	CA-C	6.18	1.60	1.52
1	ch	153	ILE	C-N	6.18	1.42	1.33
1	dm	11	VAL	CA-C	6.18	1.59	1.52
1	eO	188	THR	N-CA	6.18	1.53	1.46
1	fO	76	GLU	CA-C	6.18	1.60	1.52
1	C	24	VAL	CA-CB	6.18	1.62	1.54
1	Q	201	ILE	CA-C	6.18	1.60	1.52
1	gb	174	ALA	N-CA	-6.18	1.38	1.46
1	gW	52	LEU	CA-C	6.18	1.60	1.52
1	1N	181	VAL	CA-CB	-6.18	1.47	1.54
1	io	1	PRO	N-CD	6.18	1.56	1.47
1	it	78	ALA	CA-C	-6.18	1.44	1.52
1	iI	201	ILE	CA-CB	-6.18	1.46	1.54
1	j0	184	TRP	CA-CB	6.18	1.62	1.53
1	j7	208	ALA	CA-C	-6.18	1.44	1.52
1	k5	95	GLN	N-CA	-6.18	1.38	1.45
1	kh	151	LEU	CA-CB	6.18	1.63	1.53
1	l7	138	LEU	C-N	6.18	1.41	1.33
1	lG	171	THR	N-CA	-6.18	1.38	1.46
1	lP	12	HIS	CG-ND1	-6.18	1.31	1.38
1	2s	90	PRO	N-CA	6.18	1.54	1.47
1	2v	95	GLN	C-N	6.18	1.41	1.33
1	39	149	SER	C-N	6.18	1.41	1.33
1	3R	120	HIS	ND1-CE1	6.18	1.38	1.32
1	3R	149	SER	N-CA	6.18	1.53	1.45
1	4c	180	GLU	C-O	-6.18	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4f	11	VAL	CA-C	-6.18	1.45	1.52
1	4K	57	ASN	CA-CB	6.18	1.64	1.53
1	58	189	LEU	CA-C	6.18	1.60	1.52
1	6f	79	GLU	CA-CB	6.18	1.63	1.53
1	6F	120	HIS	ND1-CE1	6.18	1.38	1.32
1	7r	134	ILE	CA-C	-6.18	1.45	1.52
1	7t	226	HIS	CA-C	6.18	1.61	1.52
1	7B	68	MET	CA-CB	6.18	1.62	1.53
1	7D	84	HIS	C-N	6.18	1.39	1.33
1	91	49	PRO	C-N	6.18	1.42	1.33
1	9m	73	ILE	N-CA	6.18	1.53	1.46
1	9w	189	LEU	C-N	6.18	1.42	1.33
1	9P	187	GLU	CA-C	6.18	1.60	1.52
1	Z	74	ASN	CA-CB	6.18	1.62	1.53
1	10	58	THR	CA-C	-6.18	1.44	1.52
1	aQ	71	GLU	N-CA	6.18	1.53	1.46
1	aW	11	VAL	N-CA	6.18	1.53	1.46
1	bp	159	GLU	C-N	-6.18	1.25	1.33
1	bJ	165	VAL	C-N	6.18	1.41	1.33
1	cl	1	PRO	CA-C	-6.18	1.40	1.52
1	cl	59	VAL	C-O	-6.18	1.17	1.24
1	ct	170	LYS	C-N	6.18	1.42	1.34
1	cX	188	THR	N-CA	6.18	1.53	1.46
1	de	72	THR	N-CA	-6.18	1.38	1.46
1	dn	141	ILE	CA-C	-6.18	1.45	1.52
1	dC	62	HIS	CE1-NE2	6.18	1.38	1.32
1	dX	143	ARG	CD-NE	6.18	1.54	1.46
1	eu	104	ILE	CA-CB	-6.18	1.46	1.54
1	ey	28	GLU	N-CA	-6.18	1.38	1.46
1	ez	26	VAL	CA-CB	-6.18	1.47	1.54
1	eS	52	LEU	CA-CB	6.18	1.63	1.53
1	f1	153	ILE	N-CA	6.18	1.53	1.46
1	fp	12	HIS	ND1-CE1	6.18	1.38	1.32
1	h	147	PRO	CA-C	-6.18	1.43	1.52
1	s	102	SER	CA-CB	6.18	1.63	1.53
1	7	59	VAL	CA-CB	-6.18	1.46	1.54
1	gI	84	HIS	CA-CB	6.17	1.61	1.53
1	gX	71	GLU	C-N	6.17	1.42	1.33
1	h9	80	TRP	N-CA	-6.17	1.38	1.46
1	hI	229	ARG	CD-NE	6.17	1.54	1.46
1	hK	158	LYS	CA-C	-6.17	1.45	1.52
1	hM	20	LEU	CA-CB	6.17	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	il	117	TRP	C-N	6.17	1.42	1.33
1	im	73	ILE	C-N	6.17	1.42	1.33
1	iw	62	HIS	ND1-CE1	6.17	1.38	1.32
1	1R	195	ASN	CA-CB	6.17	1.62	1.53
1	iL	43	LEU	CA-CB	6.17	1.64	1.53
1	j0	18	ARG	CA-C	-6.17	1.44	1.52
1	jd	103	ASP	CA-CB	6.17	1.62	1.53
1	li	184	TRP	CA-C	6.17	1.60	1.52
1	lC	226	HIS	CB-CG	6.17	1.58	1.50
1	lL	18	ARG	CD-NE	6.17	1.54	1.46
1	lM	110	THR	CA-C	-6.17	1.44	1.52
1	lO	146	SER	C-O	6.17	1.31	1.24
1	lR	20	LEU	CA-CB	6.17	1.63	1.53
1	2b	198	CYS	CA-C	6.17	1.60	1.52
1	3H	48	THR	CA-C	-6.17	1.45	1.53
1	3O	120	HIS	ND1-CE1	6.17	1.38	1.32
1	4h	23	TRP	CA-CB	6.17	1.62	1.53
1	4u	121	ASN	CA-C	-6.17	1.46	1.52
1	6U	130	TYR	CA-CB	6.17	1.62	1.53
1	6Z	97	ARG	NE-CZ	-6.17	1.26	1.33
1	7w	173	ARG	CD-NE	6.17	1.54	1.46
1	7x	186	THR	CA-CB	6.17	1.63	1.53
1	7P	12	HIS	CG-ND1	6.17	1.45	1.38
1	8j	100	ARG	N-CA	6.17	1.53	1.45
1	9O	141	ILE	CA-C	-6.17	1.43	1.52
1	9U	101	GLY	C-O	-6.17	1.16	1.23
1	ak	199	LYS	N-CA	-6.17	1.38	1.46
1	bu	123	PRO	C-N	6.17	1.39	1.33
1	bY	117	TRP	CA-CB	6.17	1.62	1.53
1	cs	87	HIS	ND1-CE1	6.17	1.38	1.32
1	cF	131	LYS	C-N	6.17	1.42	1.33
1	d0	46	GLY	C-N	6.17	1.41	1.33
1	1k	45	GLU	CA-CB	6.17	1.63	1.53
1	1l	123	PRO	C-N	6.17	1.38	1.33
1	dB	39	MET	CA-C	-6.17	1.44	1.52
1	dI	151	LEU	CA-CB	6.17	1.63	1.53
1	eg	162	ARG	CA-C	-6.17	1.45	1.52
1	eD	192	GLN	CA-CB	6.17	1.63	1.53
1	fm	37	ILE	CA-CB	6.17	1.58	1.53
1	fr	156	GLY	N-CA	6.17	1.53	1.44
1	fw	64	ALA	CA-C	-6.17	1.44	1.52
1	fM	34	PRO	C-O	-6.17	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gK	230	VAL	CA-C	6.17	1.59	1.52
1	hC	196	PRO	C-O	6.17	1.31	1.24
1	ia	154	ARG	C-N	6.17	1.42	1.33
1	jH	107	THR	C-N	6.17	1.42	1.33
1	k8	35	GLU	C-N	6.17	1.41	1.33
1	2E	113	GLU	C-N	6.17	1.41	1.33
1	2H	83	LEU	C-O	-6.17	1.16	1.24
1	2J	219	GLN	CA-C	-6.17	1.45	1.52
1	34	184	TRP	NE1-CE2	-6.17	1.30	1.37
1	3k	120	HIS	CD2-NE2	6.17	1.44	1.37
1	3A	117	TRP	NE1-CE2	-6.17	1.30	1.37
1	3I	101	GLY	C-N	6.17	1.42	1.34
1	4b	148	THR	CB-OG1	6.17	1.53	1.43
1	4J	33	SER	C-N	6.17	1.41	1.34
1	50	32	PHE	CA-C	-6.17	1.45	1.52
1	5z	123	PRO	C-N	-6.17	1.28	1.33
1	8I	156	GLY	CA-C	-6.17	1.43	1.51
1	8N	163	ASP	C-N	6.17	1.41	1.33
1	8R	12	HIS	CB-CG	6.17	1.58	1.50
1	9V	70	LYS	C-N	6.17	1.42	1.33
1	a3	51	ASP	CA-CB	-6.17	1.43	1.53
1	a5	208	ALA	C-N	6.17	1.42	1.33
1	aB	200	THR	N-CA	-6.17	1.38	1.46
1	aC	61	GLY	N-CA	6.17	1.51	1.45
1	17	164	TYR	CA-C	6.17	1.60	1.52
1	bu	126	VAL	C-N	6.17	1.40	1.33
1	cY	84	HIS	CD2-NE2	6.17	1.44	1.37
1	f5	213	GLU	N-CA	-6.17	1.38	1.46
1	fA	168	PHE	C-N	6.17	1.42	1.33
1	h2	40	PHE	CA-C	-6.17	1.44	1.52
1	ha	226	HIS	CG-ND1	-6.17	1.31	1.38
1	hL	226	HIS	ND1-CE1	6.17	1.38	1.32
1	io	80	TRP	NE1-CE2	-6.17	1.30	1.37
1	ip	62	HIS	ND1-CE1	-6.17	1.26	1.32
1	j2	104	ILE	CA-CB	6.17	1.63	1.54
1	1U	138	LEU	CA-CB	6.17	1.63	1.53
1	ju	141	ILE	C-N	6.17	1.41	1.33
1	kl	90	PRO	CA-CB	6.17	1.62	1.53
1	l2	226	HIS	CA-C	-6.17	1.45	1.53
1	lh	169	TYR	C-O	-6.17	1.16	1.24
1	lo	197	ASP	CA-C	6.17	1.61	1.52
1	ly	211	LEU	C-N	6.17	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	29	157	PRO	C-N	6.17	1.41	1.33
1	lJ	228	ALA	N-CA	6.17	1.53	1.46
1	2p	179	GLN	CA-C	-6.17	1.44	1.52
1	2s	143	ARG	CA-CB	6.17	1.62	1.53
1	3t	1	PRO	N-CA	6.17	1.56	1.47
1	3W	130	TYR	CA-CB	6.17	1.62	1.53
1	52	126	VAL	CA-CB	6.17	1.62	1.54
1	5l	82	ARG	CA-C	6.17	1.60	1.52
1	76	154	ARG	CD-NE	6.17	1.54	1.46
1	7i	162	ARG	CD-NE	6.17	1.54	1.46
1	7Q	118	MET	CA-CB	6.17	1.64	1.53
1	81	96	MET	CA-CB	6.17	1.64	1.53
1	8T	23	TRP	C-O	-6.17	1.17	1.24
1	8Z	128	GLU	C-N	6.17	1.41	1.33
1	9e	79	GLU	C-N	6.17	1.41	1.33
1	9l	164	TYR	CA-C	6.17	1.61	1.52
1	9E	117	TRP	CA-C	6.17	1.60	1.52
1	10	170	LYS	CA-C	6.17	1.60	1.52
1	ah	199	LYS	N-CA	6.17	1.53	1.46
1	aw	167	ARG	CA-CB	6.17	1.63	1.53
1	aH	12	HIS	CA-CB	6.17	1.63	1.53
1	b2	91	ILE	C-O	-6.17	1.16	1.24
1	bh	40	PHE	CA-CB	6.17	1.62	1.53
1	bi	96	MET	CA-C	-6.17	1.44	1.53
1	bM	60	GLY	N-CA	6.17	1.54	1.45
1	c0	117	TRP	NE1-CE2	6.17	1.44	1.37
1	ce	89	GLY	CA-C	6.17	1.60	1.51
1	cN	44	SER	CA-C	-6.17	1.45	1.52
1	e5	126	VAL	N-CA	6.17	1.53	1.46
1	e5	176	GLN	CA-CB	6.17	1.63	1.53
1	en	163	ASP	C-O	-6.17	1.17	1.24
1	ep	9	GLN	CA-CB	6.17	1.61	1.53
1	ex	115	ILE	N-CA	6.17	1.54	1.46
1	eY	117	TRP	C-N	6.17	1.42	1.33
1	fb	221	VAL	CA-C	-6.17	1.44	1.52
1	1w	104	ILE	CA-CB	-6.17	1.46	1.54
1	ft	111	LEU	CA-CB	6.17	1.63	1.53
1	fy	80	TRP	CA-CB	6.17	1.63	1.53
1	fA	84	HIS	ND1-CE1	6.17	1.38	1.32
1	fA	209	ALA	CA-C	6.17	1.61	1.52
1	l	84	HIS	CB-CG	6.17	1.58	1.50
1	gd	54	THR	N-CA	6.17	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	go	182	LYS	CA-CB	6.17	1.63	1.53
1	gB	124	ILE	CA-C	6.17	1.57	1.53
1	gL	174	ALA	CA-C	6.17	1.60	1.52
1	1N	115	ILE	CA-CB	6.17	1.62	1.54
1	k0	135	ILE	C-O	-6.17	1.16	1.24
1	k1	36	VAL	CA-C	6.17	1.60	1.52
1	k7	62	HIS	CA-C	6.17	1.61	1.52
1	2s	38	PRO	CA-CB	6.17	1.62	1.53
1	2V	63	GLN	CD-NE2	6.17	1.46	1.33
1	34	133	TRP	N-CA	6.17	1.53	1.46
1	3B	172	LEU	CA-CB	6.17	1.63	1.53
1	5w	75	GLU	CA-C	6.17	1.60	1.52
1	6g	122	PRO	N-CD	-6.17	1.39	1.47
1	6Y	125	PRO	CA-C	6.17	1.58	1.53
1	8N	28	GLU	N-CA	-6.17	1.39	1.46
1	9B	97	ARG	CD-NE	6.17	1.54	1.46
1	Y	135	ILE	CB-CG1	6.17	1.65	1.53
1	ae	199	LYS	C-N	-6.17	1.25	1.33
1	c5	103	ASP	C-O	-6.17	1.16	1.24
1	cE	192	GLN	C-N	6.17	1.42	1.33
1	cU	98	GLU	CA-C	6.17	1.61	1.53
1	dQ	80	TRP	N-CA	6.17	1.53	1.46
1	iz	53	ASN	C-N	6.17	1.41	1.33
1	jF	140	LYS	CA-CB	6.17	1.63	1.53
1	jO	225	GLY	N-CA	6.17	1.55	1.46
1	jQ	54	THR	CA-C	6.17	1.60	1.52
1	kV	117	TRP	CA-CB	6.17	1.62	1.53
1	l1	11	VAL	N-CA	6.17	1.53	1.46
1	3z	184	TRP	CA-CB	6.17	1.63	1.53
1	4n	148	THR	N-CA	6.17	1.53	1.45
1	4q	140	LYS	C-N	-6.17	1.26	1.33
1	4z	52	LEU	C-O	-6.17	1.17	1.24
1	4Q	221	VAL	C-N	6.17	1.41	1.33
1	5h	12	HIS	CA-CB	6.17	1.60	1.53
1	5W	77	ALA	C-N	6.17	1.41	1.33
1	65	69	LEU	C-N	6.17	1.42	1.33
1	6f	176	GLN	C-N	6.17	1.42	1.33
1	6m	130	TYR	C-N	-6.17	1.26	1.33
1	6D	210	THR	N-CA	6.17	1.52	1.45
1	7B	134	ILE	CA-CB	-6.17	1.47	1.54
1	7D	164	TYR	C-N	6.17	1.41	1.33
1	7P	184	TRP	C-N	6.17	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	89	223	GLY	N-CA	6.17	1.53	1.44
1	8N	37	ILE	C-O	-6.17	1.19	1.24
1	99	199	LYS	N-CA	-6.17	1.38	1.46
1	9B	62	HIS	CA-CB	6.17	1.62	1.53
1	9G	172	LEU	C-N	6.17	1.42	1.33
1	9M	65	ALA	N-CA	-6.17	1.38	1.46
1	a4	230	VAL	CA-CB	-6.17	1.46	1.54
1	12	200	THR	CA-C	6.17	1.60	1.52
1	aw	184	TRP	N-CA	-6.17	1.38	1.46
1	aA	84	HIS	CA-C	-6.17	1.45	1.52
1	16	224	PRO	N-CA	6.17	1.55	1.47
1	bz	154	ARG	CD-NE	6.17	1.54	1.46
1	cR	144	MET	CA-CB	6.17	1.62	1.53
1	dw	16	SER	CA-C	6.17	1.59	1.53
1	e7	87	HIS	CD2-NE2	6.17	1.44	1.37
1	eb	33	SER	N-CA	6.17	1.54	1.46
1	eC	67	GLN	N-CA	-6.17	1.38	1.46
1	eG	102	SER	CA-C	6.17	1.61	1.52
1	fy	73	ILE	CA-C	-6.17	1.44	1.52
1	fJ	41	SER	C-N	6.17	1.41	1.33
1	gi	120	HIS	C-N	6.17	1.39	1.33
1	gm	22	ALA	CA-CB	6.17	1.62	1.53
1	gv	165	VAL	CA-C	6.17	1.60	1.52
1	gw	84	HIS	CA-C	-6.17	1.46	1.52
1	gQ	181	VAL	CA-CB	-6.17	1.47	1.54
1	hj	163	ASP	N-CA	-6.17	1.38	1.46
1	hD	219	GLN	N-CA	6.17	1.54	1.46
1	hZ	230	VAL	CA-C	6.17	1.60	1.53
1	ip	3	VAL	CA-C	-6.17	1.45	1.52
1	iL	45	GLU	C-N	6.17	1.42	1.33
1	iX	59	VAL	CA-CB	6.17	1.61	1.54
1	je	115	ILE	CA-CB	6.17	1.62	1.54
1	jz	98	GLU	CA-CB	6.17	1.61	1.53
1	jH	166	ASP	C-N	6.17	1.41	1.33
1	kS	62	HIS	CE1-NE2	6.17	1.38	1.32
1	26	101	GLY	N-CA	6.17	1.53	1.45
1	lP	51	ASP	N-CA	6.17	1.53	1.46
1	2z	76	GLU	N-CA	-6.17	1.38	1.46
1	36	5	ASN	C-O	-6.17	1.17	1.24
1	3p	88	ALA	CA-CB	6.17	1.62	1.53
1	3H	110	THR	CA-C	-6.17	1.44	1.53
1	5n	156	GLY	N-CA	6.17	1.53	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5z	149	SER	CA-CB	6.17	1.64	1.53
1	6j	18	ARG	CA-CB	6.17	1.62	1.53
1	6m	167	ARG	CD-NE	6.17	1.54	1.46
1	6z	54	THR	CA-C	6.17	1.61	1.52
1	7M	86	VAL	CA-CB	6.17	1.61	1.53
1	82	37	ILE	CA-CB	-6.17	1.49	1.53
1	8c	53	ASN	CA-CB	6.17	1.62	1.53
1	8i	120	HIS	CG-ND1	-6.17	1.31	1.38
1	8E	86	VAL	CA-CB	-6.17	1.46	1.54
1	au	204	ALA	C-N	6.17	1.42	1.33
1	aQ	183	ASN	N-CA	6.17	1.53	1.46
1	c3	195	ASN	CA-CB	6.17	1.62	1.53
1	d2	134	ILE	CA-CB	-6.17	1.47	1.54
1	1j	120	HIS	CE1-NE2	6.17	1.38	1.32
1	dv	39	MET	C-O	-6.17	1.16	1.24
1	dy	210	THR	CA-CB	6.17	1.62	1.53
1	eC	215	MET	C-N	6.17	1.42	1.33
1	eN	123	PRO	C-N	6.17	1.40	1.33
1	fC	37	ILE	CA-C	6.17	1.57	1.52
1	fH	118	MET	N-CA	-6.17	1.38	1.46
1	hl	87	HIS	C-N	6.17	1.41	1.33
1	1L	226	HIS	CE1-NE2	-6.17	1.26	1.32
1	iV	84	HIS	CE1-NE2	6.17	1.38	1.32
1	iW	4	GLN	CA-C	-6.17	1.44	1.52
1	jj	76	GLU	CA-C	6.17	1.61	1.52
1	js	18	ARG	CA-CB	6.17	1.62	1.53
1	k6	173	ARG	CD-NE	6.17	1.54	1.46
1	ks	128	GLU	C-O	-6.17	1.17	1.24
1	kM	97	ARG	CA-C	6.17	1.61	1.52
1	lv	46	GLY	C-N	-6.17	1.25	1.33
1	lC	57	ASN	C-N	6.17	1.42	1.33
1	4j	136	LEU	CB-CG	6.17	1.65	1.53
1	4X	179	GLN	CA-CB	6.17	1.63	1.53
1	5r	73	ILE	N-CA	6.17	1.53	1.46
1	65	74	ASN	C-N	6.17	1.42	1.33
1	6d	79	GLU	C-N	6.17	1.42	1.33
1	8z	116	GLY	CA-C	-6.17	1.43	1.51
1	9E	228	ALA	C-N	6.17	1.41	1.33
1	9O	48	THR	N-CA	6.17	1.54	1.45
1	a9	181	VAL	C-N	6.17	1.42	1.33
1	aG	97	ARG	CA-CB	6.17	1.63	1.53
1	co	201	ILE	CA-C	-6.17	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1h	57	ASN	CA-C	6.17	1.61	1.52
1	er	210	THR	CA-C	-6.17	1.45	1.52
1	fH	66	MET	CA-C	6.17	1.60	1.52
1	d	152	ASP	CA-C	6.17	1.61	1.52
1	gx	54	THR	N-CA	-6.16	1.39	1.46
1	gP	39	MET	C-N	6.16	1.42	1.33
1	ha	84	HIS	CA-CB	6.16	1.61	1.53
1	hC	87	HIS	CA-CB	-6.16	1.45	1.53
1	ia	1	PRO	N-CD	6.16	1.56	1.47
1	iM	129	ILE	CA-C	6.16	1.60	1.52
1	jr	37	ILE	CA-CB	6.16	1.57	1.54
1	kE	50	GLN	C-N	6.16	1.42	1.33
1	kO	88	ALA	CA-C	6.16	1.60	1.53
1	kZ	227	LYS	CA-C	6.16	1.60	1.52
1	lq	16	SER	CA-CB	6.16	1.63	1.52
1	28	113	GLU	CA-CB	6.16	1.63	1.53
1	2Q	116	GLY	CA-C	6.16	1.59	1.51
1	40	200	THR	C-N	6.16	1.41	1.33
1	50	40	PHE	C-N	6.16	1.41	1.33
1	59	61	GLY	N-CA	6.16	1.53	1.45
1	5o	75	GLU	CA-C	6.16	1.60	1.52
1	6v	192	GLN	N-CA	6.16	1.54	1.46
1	6z	113	GLU	CA-C	-6.16	1.44	1.52
1	7M	195	ASN	CA-C	6.16	1.60	1.52
1	8b	2	ILE	C-N	6.16	1.41	1.33
1	8e	155	GLN	CA-C	6.16	1.60	1.52
1	8q	69	LEU	CA-C	6.16	1.60	1.52
1	9j	134	ILE	CA-C	-6.16	1.45	1.52
1	9o	192	GLN	CA-C	-6.16	1.44	1.52
1	a3	173	ARG	CD-NE	6.16	1.54	1.46
1	aB	156	GLY	C-N	6.16	1.41	1.34
1	13	123	PRO	CA-C	-6.16	1.45	1.52
1	aP	58	THR	CA-CB	6.16	1.62	1.53
1	15	183	ASN	CA-C	6.16	1.60	1.52
1	bX	175	GLU	C-O	6.16	1.31	1.24
1	ct	13	GLN	CA-C	-6.16	1.45	1.52
1	cv	135	ILE	CA-C	-6.16	1.45	1.52
1	1f	116	GLY	CA-C	6.16	1.59	1.51
1	cY	124	ILE	N-CA	6.16	1.50	1.46
1	dw	111	LEU	CA-C	-6.16	1.44	1.52
1	dX	224	PRO	C-N	6.16	1.38	1.33
1	e3	164	TYR	C-N	6.16	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e9	161	PHE	CA-CB	6.16	1.62	1.53
1	eB	216	THR	C-N	6.16	1.41	1.33
1	f6	43	LEU	C-N	6.16	1.41	1.33
1	fe	96	MET	CA-CB	6.16	1.63	1.53
1	1x	32	PHE	N-CA	-6.16	1.38	1.46
1	6	24	VAL	CA-C	6.16	1.60	1.52
1	hU	197	ASP	N-CA	6.16	1.53	1.46
1	1Q	138	LEU	CA-CB	6.16	1.62	1.53
1	jn	70	LYS	CA-C	6.16	1.60	1.52
1	jp	92	GLU	N-CA	-6.16	1.40	1.46
1	kg	156	GLY	N-CA	6.16	1.53	1.44
1	kw	84	HIS	CB-CG	-6.16	1.41	1.50
1	l9	141	ILE	N-CA	6.16	1.53	1.46
1	lu	180	GLU	CA-CB	6.16	1.63	1.53
1	2x	115	ILE	C-N	6.16	1.40	1.33
1	2O	92	GLU	CA-C	-6.16	1.46	1.53
1	3N	142	VAL	CA-CB	-6.16	1.47	1.54
1	3W	176	GLN	CA-CB	6.16	1.63	1.53
1	4b	135	ILE	CB-CG1	6.16	1.65	1.53
1	4g	193	ASN	CA-CB	6.16	1.63	1.53
1	4H	36	VAL	CA-CB	6.16	1.63	1.54
1	55	33	SER	C-N	6.16	1.40	1.34
1	5C	17	PRO	N-CD	6.16	1.56	1.47
1	6T	161	PHE	CA-CB	6.16	1.62	1.53
1	70	15	ILE	CA-CB	6.16	1.60	1.53
1	7N	54	THR	C-N	6.16	1.41	1.33
1	7Y	225	GLY	CA-C	-6.16	1.45	1.52
1	7Z	84	HIS	CE1-NE2	-6.16	1.26	1.32
1	8m	162	ARG	CD-NE	6.16	1.54	1.46
1	8S	130	TYR	CA-C	6.16	1.60	1.52
1	d6	72	THR	C-N	6.16	1.41	1.33
1	f3	166	ASP	CA-C	6.16	1.60	1.52
1	fv	185	MET	CA-C	-6.16	1.45	1.52
1	v	175	GLU	CA-C	6.16	1.61	1.52
1	X	140	LYS	C-N	6.16	1.41	1.33
1	gd	42	ALA	N-CA	-6.16	1.39	1.46
1	gn	31	ALA	CA-C	-6.16	1.44	1.52
1	gn	107	THR	N-CA	-6.16	1.39	1.46
1	gp	69	LEU	C-N	6.16	1.41	1.33
1	h5	119	THR	CA-CB	6.16	1.61	1.53
1	hG	184	TRP	NE1-CE2	-6.16	1.30	1.37
1	hK	188	THR	N-CA	6.16	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hY	10	MET	N-CA	-6.16	1.39	1.46
1	ig	177	ALA	C-N	6.16	1.42	1.33
1	iz	184	TRP	CA-CB	6.16	1.62	1.53
1	iM	154	ARG	CD-NE	6.16	1.54	1.46
1	j5	178	SER	CA-CB	6.16	1.63	1.53
1	jW	82	ARG	CA-C	6.16	1.61	1.52
1	kd	16	SER	CA-CB	6.16	1.63	1.52
1	kB	173	ARG	N-CA	-6.16	1.38	1.46
1	29	139	ASN	CA-C	-6.16	1.45	1.52
1	2v	84	HIS	C-N	-6.16	1.25	1.33
1	3E	136	LEU	C-N	6.16	1.41	1.33
1	4s	121	ASN	CA-C	6.16	1.59	1.52
1	4L	226	HIS	ND1-CE1	6.16	1.38	1.32
1	5c	132	ARG	NE-CZ	6.16	1.39	1.33
1	6b	121	ASN	CA-CB	6.16	1.60	1.53
1	6j	226	HIS	ND1-CE1	6.16	1.38	1.32
1	6z	160	PRO	CA-CB	6.16	1.57	1.53
1	6X	96	MET	N-CA	-6.16	1.38	1.46
1	77	22	ALA	N-CA	-6.16	1.38	1.46
1	79	133	TRP	N-CA	6.16	1.53	1.46
1	7X	183	ASN	C-N	6.16	1.41	1.33
1	8O	64	ALA	N-CA	-6.16	1.38	1.46
1	9p	58	THR	C-N	6.16	1.41	1.33
1	ae	130	TYR	N-CA	-6.16	1.39	1.46
1	15	117	TRP	NE1-CE2	-6.16	1.30	1.37
1	bd	98	GLU	CA-C	-6.16	1.46	1.52
1	17	188	THR	CA-C	-6.16	1.48	1.52
1	bD	7	GLN	C-N	6.16	1.42	1.33
1	bJ	23	TRP	CA-C	-6.16	1.45	1.52
1	bW	62	HIS	N-CA	6.16	1.55	1.46
1	cj	26	VAL	CA-C	6.16	1.60	1.52
1	cG	3	VAL	CA-C	-6.16	1.45	1.52
1	dD	37	ILE	CA-C	6.16	1.58	1.52
1	dL	168	PHE	CA-CB	6.16	1.63	1.53
1	dL	173	ARG	CD-NE	6.16	1.54	1.46
1	t	52	LEU	C-O	-6.16	1.16	1.24
1	u	76	GLU	CA-CB	6.16	1.63	1.53
1	y	128	GLU	CA-C	6.16	1.61	1.52
1	gn	218	CYS	CA-CB	6.16	1.62	1.53
1	1D	41	SER	C-N	6.16	1.42	1.33
1	gD	112	GLN	CA-CB	6.16	1.62	1.53
1	gF	38	PRO	CA-C	6.16	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gR	99	PRO	C-N	6.16	1.41	1.33
1	gR	103	ASP	CA-CB	6.16	1.62	1.53
1	gY	137	GLY	N-CA	6.16	1.53	1.45
1	i9	202	LEU	C-N	6.16	1.42	1.34
1	iF	56	LEU	N-CA	-6.16	1.39	1.46
1	iS	8	GLY	C-N	-6.16	1.25	1.34
1	1T	40	PHE	CA-C	-6.16	1.44	1.52
1	jZ	57	ASN	C-N	6.16	1.43	1.33
1	ka	8	GLY	CA-C	-6.16	1.43	1.51
1	km	125	PRO	CA-C	-6.16	1.45	1.53
1	ks	203	LYS	CA-C	6.16	1.60	1.52
1	l2	164	TYR	N-CA	6.16	1.53	1.46
1	lb	71	GLU	C-N	6.16	1.42	1.33
1	29	230	VAL	N-CA	-6.16	1.39	1.46
1	lN	141	ILE	C-N	6.16	1.41	1.33
1	2z	8	GLY	N-CA	6.16	1.52	1.45
1	2Q	72	THR	C-N	6.16	1.41	1.33
1	32	109	SER	CA-C	-6.16	1.45	1.52
1	34	45	GLU	CA-C	6.16	1.60	1.52
1	35	92	GLU	CA-C	6.16	1.60	1.52
1	3g	39	MET	CA-C	6.16	1.60	1.52
1	3X	101	GLY	CA-C	-6.16	1.43	1.51
1	40	227	LYS	CA-C	6.16	1.60	1.53
1	4A	149	SER	CA-C	-6.16	1.45	1.52
1	4C	130	TYR	N-CA	6.16	1.53	1.46
1	4Z	56	LEU	CA-CB	6.16	1.63	1.53
1	50	44	SER	CA-CB	6.16	1.61	1.53
1	6G	230	VAL	N-CA	6.16	1.51	1.46
1	73	84	HIS	CG-CD2	6.16	1.42	1.35
1	7k	139	ASN	CA-CB	6.16	1.62	1.53
1	7r	226	HIS	N-CA	-6.16	1.37	1.46
1	7s	3	VAL	C-N	6.16	1.42	1.33
1	7z	52	LEU	CA-C	-6.16	1.44	1.52
1	7C	124	ILE	CA-C	6.16	1.57	1.53
1	8l	62	HIS	ND1-CE1	-6.16	1.26	1.32
1	9H	224	PRO	CA-C	6.16	1.61	1.52
1	9O	129	ILE	CA-C	6.16	1.60	1.52
1	am	179	GLN	C-N	6.16	1.42	1.33
1	aO	200	THR	C-N	6.16	1.41	1.33
1	aX	132	ARG	CD-NE	6.16	1.54	1.46
1	bo	22	ALA	CA-CB	6.16	1.62	1.53
1	bF	206	GLY	CA-C	6.16	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c9	144	MET	N-CA	6.16	1.54	1.46
1	cu	17	PRO	N-CA	6.16	1.55	1.47
1	cB	154	ARG	CA-C	6.16	1.61	1.53
1	cB	200	THR	CA-C	6.16	1.60	1.52
1	cJ	18	ARG	N-CA	-6.16	1.38	1.46
1	cO	206	GLY	CA-C	-6.16	1.43	1.51
1	dg	121	ASN	CA-CB	6.16	1.60	1.53
1	dk	12	HIS	ND1-CE1	6.16	1.38	1.32
1	1m	82	ARG	CD-NE	6.16	1.54	1.46
1	dZ	12	HIS	C-O	-6.16	1.16	1.23
1	1q	57	ASN	C-N	6.16	1.42	1.33
1	er	40	PHE	CA-CB	6.16	1.63	1.53
1	ev	19	THR	C-N	6.16	1.41	1.33
1	fq	62	HIS	CA-CB	6.16	1.62	1.53
1	fV	25	LYS	C-N	6.16	1.41	1.33
1	z	109	SER	CA-C	-6.16	1.45	1.52
1	hm	193	ASN	N-CA	-6.16	1.38	1.46
1	hG	229	ARG	C-N	6.16	1.41	1.33
1	iT	222	GLY	C-N	6.16	1.42	1.33
1	iZ	18	ARG	C-N	6.16	1.42	1.33
1	jF	41	SER	C-N	6.16	1.42	1.34
1	jW	179	GLN	N-CA	-6.16	1.39	1.46
1	2b	196	PRO	N-CA	-6.16	1.39	1.47
1	4k	23	TRP	NE1-CE2	-6.16	1.30	1.37
1	5y	169	TYR	N-CA	-6.16	1.38	1.46
1	5Y	2	ILE	CB-CG1	6.16	1.65	1.53
1	6D	164	TYR	CA-C	6.16	1.60	1.52
1	6L	1	PRO	N-CD	6.16	1.56	1.47
1	6U	211	LEU	CA-CB	6.16	1.63	1.53
1	7n	6	LEU	CA-CB	6.16	1.61	1.53
1	7n	9	GLN	C-N	6.16	1.41	1.33
1	7B	167	ARG	CD-NE	6.16	1.54	1.46
1	8f	159	GLU	N-CA	-6.16	1.37	1.46
1	8y	106	GLY	C-O	-6.16	1.16	1.24
1	bm	193	ASN	CA-C	6.16	1.60	1.52
1	bU	62	HIS	CE1-NE2	6.16	1.38	1.32
1	cY	199	LYS	CA-C	-6.16	1.44	1.52
1	dU	167	ARG	C-N	6.16	1.41	1.33
1	1s	84	HIS	ND1-CE1	6.16	1.38	1.32
1	k	198	CYS	C-N	6.16	1.42	1.33
1	g9	217	ALA	CA-CB	6.16	1.63	1.53
1	hP	224	PRO	C-N	6.16	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ib	163	ASP	CA-C	-6.16	1.44	1.52
1	jj	192	GLN	N-CA	-6.16	1.39	1.46
1	jD	179	GLN	CA-C	6.16	1.60	1.52
1	jE	123	PRO	CA-C	-6.16	1.44	1.52
1	jU	187	GLU	N-CA	-6.16	1.38	1.46
1	kc	198	CYS	N-CA	-6.16	1.39	1.46
1	ko	132	ARG	CD-NE	6.16	1.54	1.46
1	kH	68	MET	CA-C	-6.16	1.45	1.52
1	kI	160	PRO	CA-CB	6.16	1.61	1.53
1	kN	223	GLY	N-CA	6.16	1.53	1.44
1	l4	56	LEU	CA-CB	6.16	1.62	1.53
1	lb	100	ARG	CD-NE	6.16	1.54	1.46
1	lc	179	GLN	N-CA	-6.16	1.38	1.46
1	lg	120	HIS	CE1-NE2	-6.16	1.26	1.32
1	li	129	ILE	CA-CB	-6.16	1.47	1.54
1	lF	127	GLY	N-CA	6.16	1.53	1.45
1	lK	12	HIS	CB-CG	6.16	1.58	1.50
1	2i	87	HIS	CD2-NE2	6.16	1.44	1.37
1	2n	132	ARG	C-N	6.16	1.42	1.33
1	2r	57	ASN	CA-C	6.16	1.61	1.52
1	3H	53	ASN	CA-C	6.16	1.60	1.52
1	3L	62	HIS	CB-CG	6.16	1.58	1.50
1	3V	145	TYR	CA-CB	6.16	1.61	1.53
1	42	62	HIS	CD2-NE2	6.16	1.44	1.37
1	5S	120	HIS	CG-ND1	-6.16	1.31	1.38
1	67	128	GLU	C-N	6.16	1.41	1.33
1	73	62	HIS	CE1-NE2	6.16	1.38	1.32
1	84	178	SER	C-N	6.16	1.41	1.33
1	89	151	LEU	N-CA	-6.16	1.39	1.46
1	8r	97	ARG	CA-C	6.16	1.60	1.52
1	8E	82	ARG	CA-C	6.16	1.60	1.52
1	8V	15	ILE	N-CA	6.16	1.54	1.46
1	ae	15	ILE	CA-CB	6.16	1.61	1.54
1	ag	75	GLU	N-CA	-6.16	1.39	1.46
1	bm	77	ALA	CA-C	-6.16	1.44	1.52
1	cg	157	PRO	N-CA	-6.16	1.39	1.47
1	cl	190	LEU	C-N	6.16	1.41	1.33
1	cR	84	HIS	ND1-CE1	6.16	1.38	1.32
1	cY	18	ARG	CZ-NH2	-6.16	1.25	1.33
1	di	167	ARG	C-N	6.16	1.41	1.33
1	dn	62	HIS	CE1-NE2	6.16	1.38	1.32
1	dA	213	GLU	C-O	-6.16	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dQ	152	ASP	N-CA	6.16	1.54	1.46
1	e6	35	GLU	C-N	6.16	1.41	1.34
1	f3	32	PHE	N-CA	6.16	1.54	1.46
1	fm	165	VAL	N-CA	-6.16	1.39	1.46
1	fr	25	LYS	N-CA	-6.16	1.38	1.46
1	g3	66	MET	N-CA	6.16	1.53	1.46
1	z	71	GLU	C-N	6.16	1.42	1.33
1	A	74	ASN	CA-CB	6.16	1.63	1.53
1	L	10	MET	CA-CB	6.16	1.62	1.53
1	6	88	ALA	CA-C	6.16	1.61	1.52
1	6	99	PRO	N-CA	-6.16	1.39	1.47
1	go	103	ASP	N-CA	-6.15	1.39	1.46
1	gr	167	ARG	CA-C	-6.15	1.44	1.52
1	hZ	190	LEU	C-N	6.15	1.41	1.33
1	i3	191	VAL	N-CA	6.15	1.54	1.46
1	i8	230	VAL	CA-C	6.15	1.59	1.52
1	iP	81	ASP	N-CA	-6.15	1.38	1.46
1	jc	117	TRP	CA-C	6.15	1.60	1.52
1	jN	136	LEU	C-O	-6.15	1.17	1.24
1	jU	26	VAL	C-O	-6.15	1.17	1.24
1	jV	62	HIS	CE1-NE2	6.15	1.38	1.32
1	kF	148	THR	C-N	6.15	1.41	1.33
1	kL	107	THR	CA-C	-6.15	1.44	1.52
1	kN	139	ASN	N-CA	-6.15	1.38	1.46
1	kP	69	LEU	N-CA	-6.15	1.39	1.46
1	l1	36	VAL	CA-C	6.15	1.60	1.52
1	lk	84	HIS	CE1-NE2	6.15	1.38	1.32
1	lO	69	LEU	CA-CB	6.15	1.62	1.53
1	3o	30	LYS	CA-C	6.15	1.61	1.52
1	3q	59	VAL	CA-CB	6.15	1.61	1.54
1	5Q	38	PRO	C-N	6.15	1.41	1.33
1	6r	83	LEU	N-CA	6.15	1.53	1.46
1	6M	102	SER	N-CA	-6.15	1.38	1.46
1	76	208	ALA	CA-C	6.15	1.60	1.52
1	7M	58	THR	CA-C	-6.15	1.44	1.52
1	9b	125	PRO	CA-C	-6.15	1.43	1.52
1	9i	21	ASN	CA-CB	6.15	1.62	1.53
1	aH	23	TRP	C-O	-6.15	1.17	1.24
1	cA	167	ARG	CD-NE	6.15	1.54	1.46
1	cH	132	ARG	CA-C	-6.15	1.44	1.52
1	dD	80	TRP	NE1-CE2	6.15	1.44	1.37
1	ef	188	THR	N-CA	6.15	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	em	229	ARG	CA-C	-6.15	1.44	1.52
1	fp	66	MET	CA-CB	6.15	1.63	1.53
1	n	157	PRO	CA-C	6.15	1.61	1.52
1	s	34	PRO	CA-C	6.15	1.58	1.52
1	gf	116	GLY	C-N	6.15	1.42	1.33
1	gv	127	GLY	N-CA	-6.15	1.38	1.45
1	gT	197	ASP	CA-C	-6.15	1.44	1.52
1	h9	159	GLU	N-CA	-6.15	1.36	1.45
1	hh	166	ASP	N-CA	-6.15	1.39	1.46
1	hr	65	ALA	N-CA	-6.15	1.38	1.46
1	hC	32	PHE	C-N	6.15	1.40	1.33
1	hP	14	ALA	C-N	6.15	1.41	1.34
1	iF	97	ARG	C-O	-6.15	1.16	1.23
1	iO	216	THR	N-CA	6.15	1.53	1.46
1	iW	28	GLU	CA-C	-6.15	1.44	1.52
1	j7	190	LEU	CA-CB	6.15	1.63	1.53
1	ja	91	ILE	CA-CB	-6.15	1.46	1.54
1	jo	164	TYR	CA-C	6.15	1.60	1.52
1	jp	123	PRO	N-CD	6.15	1.56	1.47
1	ju	174	ALA	CA-CB	6.15	1.63	1.53
1	k5	88	ALA	N-CA	-6.15	1.37	1.45
1	lr	87	HIS	CD2-NE2	6.15	1.44	1.37
1	lt	181	VAL	CA-C	6.15	1.60	1.52
1	29	34	PRO	N-CA	6.15	1.54	1.47
1	2j	3	VAL	N-CA	-6.15	1.39	1.46
1	2j	7	GLN	CA-C	6.15	1.61	1.52
1	2w	215	MET	CA-C	-6.15	1.44	1.52
1	37	164	TYR	C-N	6.15	1.41	1.34
1	3o	36	VAL	CA-CB	-6.15	1.46	1.54
1	3z	62	HIS	CA-CB	6.15	1.63	1.53
1	42	143	ARG	CD-NE	6.15	1.54	1.46
1	4w	202	LEU	CA-CB	6.15	1.62	1.53
1	4G	80	TRP	CD2-CE3	-6.15	1.30	1.40
1	5O	154	ARG	CZ-NH2	-6.15	1.25	1.33
1	60	84	HIS	CA-C	6.15	1.60	1.52
1	6x	229	ARG	CA-C	6.15	1.60	1.52
1	7E	100	ARG	CA-C	6.15	1.61	1.53
1	7G	65	ALA	C-N	6.15	1.42	1.34
1	7L	20	LEU	CA-CB	6.15	1.63	1.53
1	7Z	61	GLY	N-CA	6.15	1.50	1.44
1	8j	132	ARG	CD-NE	6.15	1.54	1.46
1	8m	6	LEU	CA-CB	6.15	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	87	HIS	CB-CG	6.15	1.58	1.50
1	8G	34	PRO	N-CA	6.15	1.55	1.47
1	90	26	VAL	CA-C	6.15	1.60	1.52
1	a3	163	ASP	C-N	6.15	1.41	1.33
1	a7	37	ILE	CA-CB	6.15	1.57	1.54
1	ax	78	ALA	CA-C	6.15	1.60	1.52
1	aB	97	ARG	CA-C	-6.15	1.45	1.52
1	aV	38	PRO	N-CA	-6.15	1.39	1.47
1	aZ	7	GLN	C-N	6.15	1.42	1.33
1	bf	177	ALA	C-N	6.15	1.41	1.33
1	bh	12	HIS	CG-CD2	6.15	1.42	1.35
1	bv	227	LYS	C-N	6.15	1.41	1.33
1	bw	58	THR	CA-C	-6.15	1.43	1.52
1	bQ	103	ASP	C-N	6.15	1.41	1.33
1	cU	70	LYS	CA-CB	6.15	1.64	1.53
1	da	220	GLY	C-N	6.15	1.41	1.34
1	dl	170	LYS	CA-C	-6.15	1.44	1.52
1	ds	103	ASP	CA-C	-6.15	1.44	1.52
1	dD	24	VAL	CA-CB	-6.15	1.47	1.54
1	dR	207	PRO	C-N	6.15	1.42	1.33
1	ej	99	PRO	CA-C	-6.15	1.45	1.52
1	ew	133	TRP	CD2-CE3	-6.15	1.30	1.40
1	ex	39	MET	CA-C	6.15	1.60	1.52
1	eH	85	PRO	N-CD	-6.15	1.39	1.47
1	eM	59	VAL	CA-C	6.15	1.59	1.52
1	fh	218	CYS	CA-CB	6.15	1.63	1.53
1	fj	176	GLN	CA-CB	6.15	1.62	1.53
1	fM	172	LEU	CA-C	6.15	1.60	1.52
1	fM	191	VAL	N-CA	6.15	1.53	1.46
1	fR	50	GLN	CA-CB	6.15	1.63	1.53
1	P	172	LEU	CB-CG	6.15	1.65	1.53
1	gj	131	LYS	CA-CB	6.15	1.62	1.53
1	gv	133	TRP	N-CA	-6.15	1.39	1.46
1	h9	8	GLY	C-O	-6.15	1.17	1.23
1	iu	85	PRO	CA-CB	-6.15	1.45	1.53
1	jq	15	ILE	N-CA	6.15	1.54	1.46
1	kr	144	MET	C-N	6.15	1.42	1.33
1	kw	51	ASP	N-CA	6.15	1.54	1.46
1	23	154	ARG	CD-NE	6.15	1.54	1.46
1	lb	14	ALA	CA-C	6.15	1.60	1.52
1	li	214	MET	N-CA	6.15	1.53	1.46
1	lm	2	ILE	N-CA	-6.15	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lp	75	GLU	CA-CB	6.15	1.62	1.53
1	lu	11	VAL	CA-C	-6.15	1.45	1.52
1	lx	183	ASN	CA-CB	6.15	1.62	1.53
1	lP	133	TRP	CA-CB	6.15	1.63	1.53
1	2u	121	ASN	CA-C	6.15	1.57	1.52
1	2L	76	GLU	CA-C	6.15	1.60	1.52
1	3x	73	ILE	C-N	6.15	1.42	1.33
1	3A	76	GLU	C-N	6.15	1.42	1.33
1	49	8	GLY	C-N	6.15	1.42	1.33
1	5d	25	LYS	C-N	6.15	1.41	1.33
1	5V	115	ILE	CA-C	-6.15	1.45	1.52
1	63	180	GLU	CA-C	-6.15	1.44	1.52
1	6j	122	PRO	N-CD	-6.15	1.39	1.47
1	6F	129	ILE	CA-CB	6.15	1.61	1.54
1	6G	217	ALA	CA-C	6.15	1.60	1.52
1	6K	76	GLU	CA-C	6.15	1.60	1.52
1	6W	48	THR	C-N	6.15	1.43	1.33
1	6X	6	LEU	CA-C	-6.15	1.45	1.53
1	7c	74	ASN	CA-CB	6.15	1.62	1.53
1	89	125	PRO	N-CA	-6.15	1.42	1.47
1	8H	142	VAL	C-N	6.15	1.42	1.33
1	8K	165	VAL	C-N	6.15	1.42	1.33
1	9W	87	HIS	CB-CG	6.15	1.58	1.50
1	a5	229	ARG	NE-CZ	6.15	1.39	1.33
1	13	188	THR	C-O	-6.15	1.16	1.24
1	aK	145	TYR	N-CA	-6.15	1.38	1.46
1	bB	176	GLN	C-N	6.15	1.42	1.33
1	bR	43	LEU	C-N	6.15	1.42	1.33
1	cB	55	MET	CA-CB	6.15	1.62	1.53
1	cO	190	LEU	C-N	6.15	1.41	1.33
1	d8	212	GLU	CA-CB	6.15	1.63	1.53
1	dp	102	SER	N-CA	-6.15	1.38	1.46
1	dx	33	SER	C-N	-6.15	1.28	1.33
1	dL	84	HIS	CB-CG	6.15	1.58	1.50
1	dN	91	ILE	CA-C	6.15	1.60	1.52
1	dX	64	ALA	CA-C	-6.15	1.44	1.52
1	ee	223	GLY	C-N	6.15	1.40	1.34
1	eX	205	LEU	CA-CB	6.15	1.63	1.53
1	f1	26	VAL	N-CA	-6.15	1.39	1.46
1	fp	184	TRP	C-N	6.15	1.41	1.33
1	fG	159	GLU	CA-C	6.15	1.60	1.52
1	g5	76	GLU	N-CA	-6.15	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g5	139	ASN	CA-C	6.15	1.60	1.52
1	a	50	GLN	CA-CB	6.15	1.63	1.53
1	j	183	ASN	CA-CB	6.15	1.62	1.53
1	w	37	ILE	CA-CB	6.15	1.57	1.54
1	z	226	HIS	ND1-CE1	6.15	1.38	1.32
1	Q	35	GLU	CA-CB	6.15	1.63	1.53
1	gM	229	ARG	CA-C	6.15	1.60	1.52
1	gN	167	ARG	CA-C	6.15	1.60	1.52
1	h5	149	SER	CA-CB	6.15	1.63	1.53
1	hN	214	MET	C-N	6.15	1.42	1.33
1	ia	132	ARG	C-N	6.15	1.42	1.33
1	iF	44	SER	N-CA	6.15	1.53	1.46
1	iN	186	THR	C-N	6.15	1.41	1.33
1	lf	133	TRP	NE1-CE2	-6.15	1.30	1.37
1	lm	31	ALA	C-N	6.15	1.42	1.33
1	3f	86	VAL	CA-CB	-6.15	1.46	1.54
1	3v	64	ALA	CA-C	6.15	1.60	1.52
1	49	113	GLU	C-N	6.15	1.41	1.33
1	7a	143	ARG	CA-CB	6.15	1.62	1.53
1	7q	218	CYS	CA-CB	6.15	1.62	1.53
1	7x	26	VAL	C-N	6.15	1.41	1.33
1	8b	219	GLN	N-CA	-6.15	1.38	1.46
1	8Z	188	THR	CA-C	6.15	1.61	1.52
1	9r	191	VAL	C-O	-6.15	1.17	1.24
1	9x	138	LEU	CA-CB	6.15	1.63	1.53
1	9N	120	HIS	ND1-CE1	6.15	1.38	1.32
1	9P	114	GLN	N-CA	-6.15	1.39	1.46
1	19	46	GLY	CA-C	6.15	1.60	1.51
1	dm	89	GLY	N-CA	6.15	1.53	1.44
1	dn	175	GLU	CA-CB	6.15	1.63	1.53
1	dn	188	THR	CA-C	-6.15	1.44	1.52
1	en	48	THR	CA-C	-6.15	1.45	1.53
1	eo	193	ASN	CA-C	6.15	1.61	1.52
1	eq	60	GLY	C-N	6.15	1.42	1.33
1	fu	31	ALA	CA-C	6.15	1.58	1.52
1	g5	121	ASN	CA-C	-6.15	1.47	1.52
1	z	75	GLU	CA-C	6.15	1.60	1.52
1	gl	78	ALA	CA-CB	6.15	1.63	1.53
1	gN	221	VAL	CA-C	6.15	1.60	1.52
1	hc	205	LEU	N-CA	6.15	1.53	1.46
1	hK	117	TRP	CA-C	-6.15	1.45	1.52
1	hU	37	ILE	C-N	6.15	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i0	54	THR	CA-CB	6.15	1.62	1.53
1	ig	119	THR	CA-C	6.15	1.60	1.52
1	iL	117	TRP	C-N	6.15	1.42	1.33
1	iY	220	GLY	N-CA	6.15	1.53	1.45
1	j3	120	HIS	CG-CD2	6.15	1.42	1.35
1	jh	131	LYS	CA-CB	6.15	1.62	1.53
1	jF	5	ASN	N-CA	-6.15	1.38	1.46
1	k4	21	ASN	CA-C	6.15	1.60	1.52
1	k7	10	MET	CA-C	-6.15	1.45	1.52
1	kz	148	THR	N-CA	6.15	1.53	1.46
1	kN	84	HIS	ND1-CE1	6.15	1.38	1.32
1	l4	1	PRO	N-CA	6.15	1.56	1.47
1	2e	176	GLN	CA-CB	6.15	1.63	1.53
1	2D	28	GLU	CA-C	-6.15	1.45	1.52
1	32	12	HIS	ND1-CE1	6.15	1.38	1.32
1	32	104	ILE	N-CA	6.15	1.53	1.46
1	3m	51	ASP	CA-CB	6.15	1.62	1.53
1	3q	117	TRP	N-CA	-6.15	1.39	1.46
1	3s	136	LEU	CA-C	-6.15	1.45	1.52
1	3M	122	PRO	N-CD	-6.15	1.39	1.47
1	44	207	PRO	CA-C	6.15	1.58	1.52
1	4H	115	ILE	C-N	6.15	1.41	1.33
1	5l	169	TYR	N-CA	6.15	1.53	1.46
1	67	50	GLN	N-CA	6.15	1.54	1.46
1	6N	62	HIS	CA-C	6.15	1.60	1.53
1	7q	114	GLN	N-CA	-6.15	1.39	1.46
1	7P	192	GLN	CA-CB	6.15	1.63	1.53
1	7T	33	SER	C-N	-6.15	1.28	1.34
1	8W	21	ASN	CA-CB	6.15	1.63	1.53
1	96	153	ILE	CA-CB	-6.15	1.47	1.54
1	9j	6	LEU	CA-C	6.15	1.61	1.52
1	9R	88	ALA	C-O	-6.15	1.16	1.23
1	9Y	50	GLN	CA-C	6.15	1.60	1.52
1	a7	80	TRP	CA-CB	6.15	1.62	1.53
1	a9	135	ILE	CA-C	6.15	1.60	1.52
1	an	197	ASP	CA-CB	6.15	1.63	1.53
1	at	59	VAL	C-N	6.15	1.42	1.33
1	aw	136	LEU	C-N	6.15	1.42	1.33
1	18	84	HIS	ND1-CE1	6.15	1.38	1.32
1	18	134	ILE	CA-C	6.15	1.60	1.52
1	bY	166	ASP	N-CA	6.15	1.53	1.46
1	cE	11	VAL	C-O	-6.15	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cE	153	ILE	CA-C	6.15	1.60	1.52
1	dG	50	GLN	N-CA	6.15	1.53	1.46
1	eo	124	ILE	CA-C	6.15	1.59	1.52
1	eu	44	SER	N-CA	6.15	1.53	1.46
1	eF	112	GLN	CA-CB	-6.15	1.43	1.53
1	eM	144	MET	CA-CB	6.15	1.63	1.53
1	fv	5	ASN	CA-C	6.15	1.61	1.52
1	A	108	THR	CA-C	-6.15	1.44	1.52
1	4	70	LYS	CA-C	-6.15	1.44	1.52
1	O	198	CYS	C-N	6.15	1.42	1.33
1	gn	224	PRO	CA-C	6.15	1.59	1.52
1	hV	76	GLU	N-CA	-6.15	1.38	1.46
1	1N	62	HIS	CE1-NE2	6.15	1.38	1.32
1	jV	76	GLU	C-N	6.15	1.42	1.33
1	ky	190	LEU	C-N	6.15	1.41	1.33
1	2L	83	LEU	N-CA	6.15	1.54	1.46
1	2Q	9	GLN	CA-C	-6.15	1.44	1.52
1	31	132	ARG	CD-NE	6.15	1.54	1.46
1	32	181	VAL	N-CA	-6.15	1.38	1.46
1	48	107	THR	C-N	6.15	1.43	1.33
1	5w	20	LEU	C-N	6.15	1.41	1.33
1	5X	189	LEU	CA-C	-6.15	1.44	1.52
1	60	121	ASN	CA-CB	6.15	1.61	1.53
1	6l	121	ASN	CA-C	6.15	1.60	1.52
1	7y	167	ARG	CA-C	-6.15	1.44	1.52
1	7U	59	VAL	C-N	6.15	1.42	1.33
1	8j	161	PHE	CA-C	6.15	1.60	1.52
1	8s	211	LEU	N-CA	-6.15	1.38	1.46
1	aS	8	GLY	CA-C	-6.15	1.43	1.51
1	aZ	107	THR	N-CA	6.15	1.53	1.46
1	c4	208	ALA	CA-CB	-6.15	1.44	1.53
1	f	148	THR	C-N	-6.15	1.25	1.33
1	G	30	LYS	N-CA	6.15	1.53	1.46
1	gd	142	VAL	CA-C	6.14	1.60	1.52
1	gf	88	ALA	CA-C	6.14	1.60	1.52
1	hc	115	ILE	CA-CB	-6.14	1.46	1.54
1	hl	59	VAL	N-CA	6.14	1.53	1.46
1	hx	84	HIS	CB-CG	6.14	1.58	1.50
1	hW	221	VAL	N-CA	6.14	1.53	1.46
1	i1	63	GLN	C-N	6.14	1.42	1.33
1	ii	189	LEU	C-N	6.14	1.42	1.33
1	ip	81	ASP	CA-C	-6.14	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ix	90	PRO	C-N	-6.14	1.26	1.33
1	iL	14	ALA	CA-CB	6.14	1.63	1.53
1	iP	46	GLY	N-CA	6.14	1.54	1.45
1	1X	178	SER	CA-CB	6.14	1.63	1.53
1	jT	97	ARG	CD-NE	6.14	1.54	1.46
1	20	132	ARG	CD-NE	6.14	1.54	1.46
1	kP	92	GLU	CA-CB	6.14	1.59	1.54
1	l6	54	THR	CA-C	6.14	1.60	1.52
1	lL	5	ASN	CA-C	6.14	1.60	1.52
1	2a	229	ARG	C-O	-6.14	1.17	1.23
1	2j	170	LYS	CA-CB	6.14	1.62	1.53
1	2B	184	TRP	CA-CB	6.14	1.62	1.53
1	2I	180	GLU	CA-CB	6.14	1.63	1.53
1	2S	25	LYS	CA-CB	6.14	1.62	1.53
1	2Y	34	PRO	C-N	6.14	1.42	1.34
1	3b	84	HIS	CA-CB	6.14	1.59	1.53
1	3p	219	GLN	CA-CB	6.14	1.63	1.53
1	3V	221	VAL	CA-CB	6.14	1.61	1.54
1	3W	142	VAL	CA-CB	-6.14	1.47	1.54
1	4b	113	GLU	C-N	6.14	1.41	1.33
1	4d	119	THR	C-N	6.14	1.41	1.33
1	4C	158	LYS	CA-CB	6.14	1.61	1.53
1	55	211	LEU	CA-C	6.14	1.61	1.52
1	58	84	HIS	CA-C	-6.14	1.45	1.52
1	5k	82	ARG	CA-C	6.14	1.61	1.52
1	5P	100	ARG	CD-NE	6.14	1.54	1.46
1	66	103	ASP	C-N	6.14	1.41	1.33
1	6k	147	PRO	CA-CB	-6.14	1.45	1.53
1	6L	120	HIS	ND1-CE1	6.14	1.38	1.32
1	7h	21	ASN	CA-CB	6.14	1.62	1.53
1	7C	228	ALA	N-CA	-6.14	1.38	1.46
1	8j	88	ALA	C-N	6.14	1.42	1.33
1	8K	21	ASN	C-O	-6.14	1.16	1.24
1	aa	37	ILE	C-N	6.14	1.41	1.34
1	aS	202	LEU	CA-C	6.14	1.60	1.52
1	16	230	VAL	N-CA	-6.14	1.38	1.46
1	bm	229	ARG	NE-CZ	6.14	1.39	1.33
1	bJ	196	PRO	C-O	-6.14	1.16	1.24
1	cb	43	LEU	CA-C	6.14	1.61	1.52
1	cp	143	ARG	CD-NE	6.14	1.54	1.46
1	dk	68	MET	CA-C	-6.14	1.44	1.52
1	dl	196	PRO	N-CD	6.14	1.56	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ej	31	ALA	N-CA	6.14	1.53	1.46
1	fc	226	HIS	CA-C	-6.14	1.44	1.52
1	fK	69	LEU	CA-CB	6.14	1.62	1.53
1	fM	182	LYS	CA-C	6.14	1.60	1.52
1	fR	157	PRO	N-CA	-6.14	1.39	1.47
1	g7	193	ASN	C-N	-6.14	1.25	1.33
1	E	147	PRO	N-CA	6.14	1.55	1.47
1	X	53	ASN	CA-C	6.14	1.60	1.52
1	gg	149	SER	C-O	-6.14	1.16	1.23
1	gY	226	HIS	N-CA	-6.14	1.38	1.46
1	ht	18	ARG	C-O	-6.14	1.16	1.24
1	i4	139	ASN	CA-CB	6.14	1.62	1.53
1	i7	109	SER	C-O	-6.14	1.17	1.23
1	iM	228	ALA	N-CA	-6.14	1.39	1.46
1	1V	84	HIS	CG-ND1	6.14	1.45	1.38
1	1W	40	PHE	CA-C	-6.14	1.44	1.52
1	jW	143	ARG	CD-NE	6.14	1.54	1.46
1	jX	170	LYS	N-CA	6.14	1.53	1.46
1	jY	10	MET	CA-CB	6.14	1.62	1.53
1	ko	65	ALA	C-N	6.14	1.41	1.33
1	lj	39	MET	CA-CB	6.14	1.62	1.53
1	lM	18	ARG	N-CA	6.14	1.53	1.46
1	2f	184	TRP	NE1-CE2	-6.14	1.30	1.37
1	2h	228	ALA	N-CA	-6.14	1.37	1.45
1	2r	121	ASN	CA-C	-6.14	1.47	1.52
1	2t	84	HIS	ND1-CE1	6.14	1.38	1.32
1	3E	58	THR	CA-C	-6.14	1.44	1.52
1	3F	32	PHE	CA-CB	6.14	1.61	1.53
1	3W	80	TRP	N-CA	-6.14	1.39	1.46
1	4T	18	ARG	CD-NE	6.14	1.54	1.46
1	4T	26	VAL	CA-C	6.14	1.60	1.52
1	50	74	ASN	C-N	6.14	1.41	1.33
1	65	84	HIS	CA-C	6.14	1.61	1.52
1	6b	81	ASP	C-N	6.14	1.42	1.33
1	7B	29	GLU	CA-C	6.14	1.60	1.52
1	7H	73	ILE	C-N	6.14	1.41	1.33
1	8e	13	GLN	CA-C	-6.14	1.45	1.52
1	94	63	GLN	N-CA	6.14	1.53	1.46
1	as	91	ILE	N-CA	-6.14	1.38	1.46
1	bd	153	ILE	CA-C	-6.14	1.44	1.52
1	bs	76	GLU	N-CA	-6.14	1.39	1.46
1	bx	184	TRP	CA-CB	6.14	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ck	174	ALA	N-CA	6.14	1.54	1.46
1	cn	79	GLU	C-N	6.14	1.41	1.33
1	cq	67	GLN	CA-CB	6.14	1.62	1.53
1	cK	219	GLN	CA-C	-6.14	1.45	1.52
1	1i	154	ARG	NE-CZ	-6.14	1.26	1.33
1	dH	218	CYS	CA-C	-6.14	1.45	1.53
1	e9	67	GLN	CA-CB	6.14	1.62	1.53
1	eB	72	THR	N-CA	6.14	1.53	1.46
1	c	142	VAL	N-CA	-6.14	1.38	1.46
1	1	90	PRO	N-CA	6.14	1.55	1.47
1	B	189	LEU	CA-CB	6.14	1.63	1.53
1	hS	207	PRO	CA-CB	-6.14	1.45	1.53
1	ix	63	GLN	CA-CB	6.14	1.63	1.53
1	jM	140	LYS	N-CA	-6.14	1.39	1.46
1	jO	124	ILE	CA-C	6.14	1.59	1.52
1	kk	12	HIS	CG-CD2	6.14	1.42	1.35
1	kt	167	ARG	CA-C	6.14	1.61	1.52
1	kz	83	LEU	C-N	6.14	1.41	1.33
1	l3	78	ALA	CA-C	-6.14	1.44	1.52
1	lL	8	GLY	C-N	6.14	1.41	1.33
1	2c	92	GLU	CA-C	6.14	1.58	1.52
1	2r	52	LEU	C-N	6.14	1.42	1.33
1	3E	113	GLU	C-N	6.14	1.41	1.33
1	4b	95	GLN	CA-CB	6.14	1.62	1.53
1	6X	5	ASN	CA-CB	6.14	1.60	1.53
1	7P	143	ARG	CA-C	6.14	1.60	1.52
1	9E	136	LEU	C-O	-6.14	1.17	1.24
1	a7	12	HIS	C-N	6.14	1.41	1.33
1	ad	149	SER	CA-CB	6.14	1.62	1.53
1	aR	162	ARG	NE-CZ	6.14	1.39	1.33
1	bU	99	PRO	N-CA	-6.14	1.40	1.47
1	cS	230	VAL	C-N	6.14	1.42	1.33
1	cZ	1	PRO	C-N	6.14	1.41	1.33
1	cZ	188	THR	CA-C	6.14	1.57	1.52
1	du	24	VAL	CA-CB	-6.14	1.47	1.54
1	dW	125	PRO	N-CD	-6.14	1.39	1.47
1	J	229	ARG	C-N	6.14	1.41	1.33
1	g8	182	LYS	CA-C	6.14	1.60	1.52
1	hT	71	GLU	CA-C	-6.14	1.44	1.52
1	ir	132	ARG	CA-CB	6.14	1.62	1.53
1	1Q	173	ARG	N-CA	-6.14	1.38	1.46
1	iA	138	LEU	C-N	6.14	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iH	12	HIS	CG-CD2	6.14	1.42	1.35
1	j1	166	ASP	CA-CB	6.14	1.62	1.53
1	j2	214	MET	CA-CB	6.14	1.63	1.53
1	ja	112	GLN	C-N	6.14	1.42	1.33
1	je	216	THR	CA-C	-6.14	1.44	1.52
1	jw	48	THR	CA-C	-6.14	1.46	1.53
1	1Y	205	LEU	CA-C	6.14	1.60	1.52
1	jW	230	VAL	CA-C	6.14	1.60	1.52
1	k0	80	TRP	CA-CB	6.14	1.62	1.53
1	kz	119	THR	CA-C	6.14	1.61	1.52
1	kK	37	ILE	CA-CB	6.14	1.57	1.54
1	kK	96	MET	CA-CB	6.14	1.63	1.53
1	ld	87	HIS	N-CA	6.14	1.52	1.45
1	2y	84	HIS	ND1-CE1	6.14	1.38	1.32
1	2I	163	ASP	N-CA	6.14	1.53	1.46
1	3B	186	THR	C-N	-6.14	1.26	1.33
1	3G	175	GLU	C-N	6.14	1.41	1.33
1	3M	37	ILE	N-CA	-6.14	1.39	1.46
1	4l	90	PRO	CA-CB	6.14	1.62	1.53
1	4R	71	GLU	CA-C	-6.14	1.44	1.52
1	4Y	211	LEU	CA-C	6.14	1.60	1.52
1	5k	125	PRO	CA-C	-6.14	1.47	1.52
1	5r	215	MET	CA-CB	6.14	1.63	1.53
1	5M	134	ILE	C-O	-6.14	1.17	1.24
1	6Y	47	ALA	C-N	6.14	1.42	1.33
1	7N	35	GLU	C-N	6.14	1.41	1.33
1	86	199	LYS	CA-CB	6.14	1.63	1.53
1	8f	63	GLN	CA-CB	6.14	1.62	1.53
1	8j	23	TRP	N-CA	-6.14	1.39	1.46
1	8y	150	ILE	CA-CB	-6.14	1.45	1.54
1	8X	34	PRO	CA-C	6.14	1.61	1.52
1	9m	28	GLU	CA-C	-6.14	1.44	1.52
1	9z	131	LYS	N-CA	-6.14	1.39	1.46
1	af	168	PHE	CA-CB	6.14	1.62	1.53
1	ag	100	ARG	CZ-NH1	-6.14	1.24	1.32
1	ag	166	ASP	CA-C	6.14	1.60	1.52
1	ak	168	PHE	N-CA	6.14	1.53	1.46
1	ao	78	ALA	CA-CB	6.14	1.63	1.53
1	b2	169	TYR	CA-C	-6.14	1.44	1.52
1	bu	62	HIS	CA-C	-6.14	1.45	1.53
1	19	229	ARG	CD-NE	6.14	1.54	1.46
1	cK	149	SER	N-CA	6.14	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d7	92	GLU	CA-CB	6.14	1.61	1.53
1	dw	195	ASN	CA-C	6.14	1.60	1.52
1	dA	124	ILE	CA-CB	-6.14	1.46	1.54
1	1q	143	ARG	CA-CB	6.14	1.63	1.53
1	eo	28	GLU	CA-C	6.14	1.61	1.52
1	f9	189	LEU	CA-C	-6.14	1.44	1.52
1	fs	81	ASP	N-CA	-6.14	1.37	1.46
1	fz	12	HIS	CA-CB	6.14	1.62	1.53
1	fE	93	PRO	CA-CB	-6.14	1.45	1.53
1	e	170	LYS	CA-C	6.14	1.60	1.52
1	J	162	ARG	CA-C	6.14	1.60	1.52
1	h1	28	GLU	CA-C	6.14	1.61	1.52
1	hl	201	ILE	C-N	6.14	1.42	1.33
1	1N	78	ALA	CA-C	6.14	1.60	1.52
1	km	211	LEU	CB-CG	6.14	1.65	1.53
1	kw	67	GLN	CA-C	-6.14	1.44	1.52
1	26	165	VAL	C-N	6.14	1.41	1.33
1	lJ	162	ARG	C-O	-6.14	1.17	1.24
1	lP	182	LYS	C-O	6.14	1.31	1.24
1	2m	55	MET	CA-CB	6.14	1.63	1.53
1	2v	164	TYR	CA-CB	6.14	1.62	1.53
1	4g	12	HIS	N-CA	-6.14	1.38	1.46
1	6u	154	ARG	NE-CZ	6.14	1.39	1.33
1	7x	13	GLN	C-O	-6.14	1.16	1.24
1	7J	77	ALA	CA-C	6.14	1.60	1.52
1	7N	2	ILE	CA-CB	-6.14	1.47	1.54
1	7R	222	GLY	C-N	6.14	1.42	1.33
1	7Z	40	PHE	CA-CB	6.14	1.63	1.53
1	8n	39	MET	C-O	-6.14	1.17	1.24
1	9f	208	ALA	CA-C	6.14	1.61	1.53
1	9l	31	ALA	CA-C	6.14	1.59	1.53
1	9I	163	ASP	CA-CB	6.14	1.62	1.53
1	ar	90	PRO	CA-C	6.14	1.59	1.52
1	aJ	73	ILE	CA-C	6.14	1.61	1.52
1	cw	153	ILE	N-CA	6.14	1.53	1.46
1	cz	195	ASN	CA-CB	6.14	1.63	1.53
1	dt	165	VAL	C-O	-6.14	1.17	1.24
1	ev	87	HIS	ND1-CE1	6.14	1.38	1.32
1	h	126	VAL	C-N	-6.14	1.26	1.33
1	gI	51	ASP	CA-C	6.14	1.60	1.52
1	hh	121	ASN	N-CA	6.14	1.54	1.46
1	i4	163	ASP	CA-CB	6.14	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iD	129	ILE	CA-CB	-6.14	1.47	1.54
1	iN	153	ILE	CA-CB	-6.14	1.47	1.54
1	iT	79	GLU	CA-CB	6.14	1.62	1.53
1	j3	160	PRO	CA-C	6.14	1.61	1.52
1	jB	50	GLN	CA-CB	6.14	1.62	1.53
1	jJ	12	HIS	N-CA	6.14	1.53	1.46
1	jT	114	GLN	N-CA	-6.14	1.39	1.46
1	1Z	161	PHE	CA-CB	6.14	1.62	1.53
1	kg	120	HIS	ND1-CE1	6.14	1.38	1.32
1	21	181	VAL	CA-C	-6.14	1.44	1.52
1	kk	117	TRP	NE1-CE2	-6.14	1.30	1.37
1	kl	182	LYS	C-N	6.14	1.42	1.33
1	kH	153	ILE	CA-CB	-6.14	1.48	1.54
1	kJ	120	HIS	CB-CG	6.14	1.58	1.50
1	ls	102	SER	CA-CB	6.14	1.63	1.53
1	lI	149	SER	N-CA	-6.14	1.38	1.45
1	lN	84	HIS	CA-CB	6.14	1.60	1.53
1	2Y	22	ALA	N-CA	-6.14	1.38	1.46
1	3a	214	MET	C-N	6.14	1.42	1.33
1	4u	194	ALA	CA-C	6.14	1.60	1.52
1	5j	226	HIS	C-N	6.14	1.41	1.33
1	5F	135	ILE	CB-CG1	6.14	1.65	1.53
1	64	180	GLU	CA-C	6.14	1.60	1.52
1	6w	124	ILE	CA-C	6.14	1.58	1.53
1	77	52	LEU	CA-C	-6.14	1.45	1.52
1	8O	96	MET	N-CA	-6.14	1.39	1.46
1	8T	132	ARG	N-CA	6.14	1.53	1.46
1	93	59	VAL	CA-CB	6.14	1.61	1.54
1	9i	130	TYR	CA-CB	6.14	1.62	1.53
1	a0	208	ALA	C-O	6.14	1.32	1.24
1	13	114	GLN	CA-C	-6.14	1.44	1.52
1	bz	205	LEU	N-CA	6.14	1.53	1.46
1	bD	78	ALA	CA-CB	6.14	1.62	1.53
1	cN	44	SER	CA-CB	6.14	1.61	1.53
1	eA	154	ARG	CA-C	-6.14	1.45	1.52
1	eL	169	TYR	CA-CB	6.14	1.62	1.53
1	eS	147	PRO	N-CA	-6.14	1.40	1.47
1	eV	226	HIS	CB-CG	6.14	1.58	1.50
1	eZ	92	GLU	CA-C	6.14	1.58	1.52
1	fC	163	ASP	CA-C	6.14	1.61	1.52
1	T	36	VAL	CA-C	-6.14	1.44	1.52
1	7	133	TRP	NE1-CE2	6.14	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8	84	HIS	CA-CB	6.14	1.63	1.53
1	gB	189	LEU	N-CA	-6.13	1.38	1.46
1	gO	26	VAL	C-N	6.13	1.41	1.33
1	h1	88	ALA	C-N	6.13	1.44	1.33
1	hI	76	GLU	CA-CB	6.13	1.62	1.53
1	hP	167	ARG	C-N	6.13	1.42	1.33
1	iR	78	ALA	C-N	6.13	1.42	1.33
1	j1	104	ILE	CA-C	-6.13	1.45	1.52
1	j4	172	LEU	C-N	6.13	1.42	1.33
1	j6	142	VAL	CA-C	-6.13	1.45	1.52
1	kp	62	HIS	CG-ND1	6.13	1.45	1.38
1	ky	170	LYS	C-N	-6.13	1.25	1.33
1	kB	9	GLN	CA-CB	6.13	1.63	1.53
1	l3	161	PHE	CA-CB	6.13	1.62	1.53
1	lC	215	MET	CA-C	6.13	1.61	1.52
1	lF	19	THR	CB-OG1	-6.13	1.33	1.43
1	lR	173	ARG	CD-NE	6.13	1.54	1.46
1	2g	189	LEU	N-CA	-6.13	1.38	1.46
1	31	119	THR	CB-OG1	-6.13	1.33	1.43
1	3m	12	HIS	N-CA	6.13	1.53	1.46
1	3q	211	LEU	C-N	6.13	1.41	1.33
1	3H	71	GLU	CA-C	-6.13	1.45	1.52
1	4p	16	SER	CA-CB	6.13	1.64	1.53
1	4u	150	ILE	CA-C	6.13	1.60	1.52
1	5p	150	ILE	N-CA	6.13	1.54	1.46
1	5u	230	VAL	CA-C	-6.13	1.47	1.52
1	5z	10	MET	C-N	6.13	1.41	1.33
1	5T	229	ARG	C-N	6.13	1.41	1.33
1	5V	192	GLN	CA-C	6.13	1.61	1.52
1	5W	62	HIS	CA-CB	6.13	1.62	1.53
1	6k	86	VAL	C-N	6.13	1.42	1.33
1	6m	149	SER	N-CA	6.13	1.54	1.46
1	6O	83	LEU	CA-C	6.13	1.61	1.52
1	72	176	GLN	C-N	6.13	1.41	1.33
1	7O	215	MET	C-N	6.13	1.42	1.33
1	8b	82	ARG	CD-NE	6.13	1.54	1.46
1	8r	167	ARG	CD-NE	6.13	1.54	1.46
1	8E	153	ILE	CA-CB	6.13	1.61	1.53
1	8I	113	GLU	N-CA	-6.13	1.39	1.46
1	9O	50	GLN	CA-C	6.13	1.60	1.52
1	9W	25	LYS	C-N	6.13	1.41	1.33
1	a5	10	MET	C-O	6.13	1.31	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a7	149	SER	N-CA	6.13	1.53	1.46
1	aa	52	LEU	CA-C	6.13	1.60	1.52
1	b6	42	ALA	C-N	6.13	1.42	1.33
1	ba	3	VAL	CA-C	6.13	1.60	1.52
1	bX	195	ASN	CA-C	6.13	1.60	1.53
1	1c	210	THR	CA-C	-6.13	1.45	1.52
1	cI	186	THR	N-CA	6.13	1.53	1.46
1	1j	208	ALA	N-CA	6.13	1.53	1.46
1	dn	78	ALA	N-CA	-6.13	1.39	1.46
1	dv	96	MET	CA-C	6.13	1.60	1.52
1	1l	91	ILE	CA-C	-6.13	1.45	1.52
1	e1	120	HIS	CA-C	6.13	1.60	1.52
1	eF	192	GLN	CA-CB	6.13	1.63	1.53
1	1s	144	MET	CA-CB	6.13	1.62	1.53
1	eP	62	HIS	CB-CG	6.13	1.58	1.50
1	1B	9	GLN	CA-CB	6.13	1.65	1.53
1	z	223	GLY	N-CA	6.13	1.53	1.44
1	F	12	HIS	CA-CB	6.13	1.63	1.53
1	N	123	PRO	C-N	6.13	1.41	1.33
1	ib	83	LEU	CA-C	-6.13	1.44	1.52
1	iE	135	ILE	CA-CB	6.13	1.61	1.54
1	k9	14	ALA	C-N	6.13	1.41	1.33
1	2b	35	GLU	CA-C	6.13	1.61	1.52
1	4a	32	PHE	N-CA	6.13	1.53	1.46
1	5x	79	GLU	C-N	6.13	1.41	1.33
1	63	213	GLU	CA-C	6.13	1.60	1.52
1	80	172	LEU	C-N	6.13	1.41	1.33
1	8z	91	ILE	N-CA	6.13	1.53	1.46
1	8H	163	ASP	CA-C	6.13	1.61	1.52
1	8J	50	GLN	CA-C	6.13	1.60	1.52
1	9D	16	SER	CA-CB	6.13	1.62	1.53
1	9P	20	LEU	C-O	-6.13	1.17	1.24
1	cK	18	ARG	CZ-NH2	-6.13	1.25	1.33
1	d3	66	MET	C-O	-6.13	1.17	1.24
1	dC	149	SER	CA-C	6.13	1.60	1.52
1	1m	126	VAL	CA-CB	-6.13	1.46	1.54
1	dW	41	SER	CA-C	-6.13	1.44	1.52
1	fg	121	ASN	C-O	-6.13	1.17	1.24
1	fp	84	HIS	CD2-NE2	6.13	1.44	1.37
1	fw	28	GLU	CA-C	6.13	1.61	1.52
1	1A	12	HIS	ND1-CE1	6.13	1.38	1.32
1	gK	25	LYS	C-N	6.13	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gN	214	MET	C-N	6.13	1.42	1.33
1	hI	46	GLY	C-O	-6.13	1.20	1.24
1	ib	51	ASP	CA-CB	6.13	1.62	1.53
1	ie	79	GLU	CA-C	6.13	1.60	1.52
1	1P	189	LEU	CA-C	6.13	1.60	1.52
1	iY	209	ALA	CA-C	6.13	1.60	1.52
1	jG	133	TRP	NE1-CE2	6.13	1.44	1.37
1	jS	11	VAL	CA-C	6.13	1.59	1.52
1	kv	92	GLU	CA-CB	6.13	1.63	1.53
1	kH	189	LEU	C-N	6.13	1.42	1.33
1	kW	84	HIS	ND1-CE1	6.13	1.38	1.32
1	la	217	ALA	CA-CB	6.13	1.61	1.53
1	li	51	ASP	CA-CB	6.13	1.62	1.53
1	lM	59	VAL	C-N	6.13	1.42	1.33
1	32	120	HIS	ND1-CE1	6.13	1.38	1.32
1	3T	165	VAL	C-N	6.13	1.41	1.33
1	4T	82	ARG	CA-C	-6.13	1.45	1.52
1	5f	170	LYS	C-N	6.13	1.41	1.33
1	5n	60	GLY	C-N	6.13	1.38	1.33
1	5t	16	SER	C-N	6.13	1.42	1.33
1	5I	56	LEU	CA-C	-6.13	1.44	1.52
1	77	33	SER	N-CA	-6.13	1.37	1.45
1	8o	157	PRO	C-O	-6.13	1.16	1.24
1	8G	196	PRO	C-O	-6.13	1.16	1.24
1	8T	226	HIS	CD2-NE2	6.13	1.44	1.37
1	9I	201	ILE	N-CA	6.13	1.53	1.46
1	9L	37	ILE	C-O	6.13	1.29	1.24
1	12	98	GLU	CA-C	6.13	1.59	1.53
1	bu	133	TRP	NE1-CE2	-6.13	1.30	1.37
1	1d	37	ILE	CA-C	6.13	1.59	1.52
1	dK	8	GLY	CA-C	6.13	1.60	1.51
1	dU	7	GLN	N-CA	6.13	1.54	1.46
1	1p	102	SER	C-O	-6.13	1.16	1.24
1	fN	226	HIS	CD2-NE2	6.13	1.44	1.37
1	g2	24	VAL	CA-CB	-6.13	1.46	1.54
1	K	140	LYS	CA-C	6.13	1.60	1.52
1	hb	88	ALA	CA-C	6.13	1.60	1.52
1	hV	19	THR	CA-C	-6.13	1.44	1.52
1	io	213	GLU	CA-C	-6.13	1.45	1.52
1	jG	105	ALA	CA-C	6.13	1.61	1.52
1	kh	160	PRO	N-CA	-6.13	1.40	1.47
1	l3	54	THR	CA-C	-6.13	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l5	124	ILE	N-CA	-6.13	1.41	1.46
1	lD	207	PRO	CA-CB	6.13	1.61	1.53
1	2k	81	ASP	CA-C	6.13	1.61	1.52
1	3q	195	ASN	CA-CB	6.13	1.62	1.53
1	4v	117	TRP	CA-CB	6.13	1.63	1.53
1	4R	120	HIS	CA-C	6.13	1.60	1.52
1	4Z	76	GLU	CA-C	6.13	1.60	1.52
1	5T	28	GLU	CA-CB	6.13	1.61	1.53
1	6c	114	GLN	N-CA	-6.13	1.39	1.46
1	7D	55	MET	CA-C	6.13	1.60	1.52
1	8j	64	ALA	CA-C	6.13	1.60	1.52
1	8A	220	GLY	CA-C	-6.13	1.45	1.52
1	8V	59	VAL	CA-C	6.13	1.59	1.52
1	9C	87	HIS	CA-C	6.13	1.60	1.52
1	aZ	214	MET	CA-CB	6.13	1.63	1.53
1	bd	50	GLN	CA-C	6.13	1.61	1.52
1	c6	67	GLN	C-N	6.13	1.42	1.33
1	ch	120	HIS	ND1-CE1	6.13	1.38	1.32
1	d3	230	VAL	N-CA	6.13	1.54	1.46
1	di	201	ILE	CA-C	6.13	1.60	1.52
1	dA	153	ILE	CA-C	6.13	1.59	1.52
1	dD	123	PRO	C-N	6.13	1.38	1.33
1	fb	141	ILE	CA-C	6.13	1.60	1.52
1	fv	83	LEU	CA-C	-6.13	1.44	1.52
1	G	5	ASN	CA-CB	6.13	1.62	1.53
1	gr	56	LEU	N-CA	6.13	1.53	1.46
1	gx	167	ARG	NE-CZ	6.13	1.39	1.33
1	h5	173	ARG	CA-CB	6.13	1.62	1.53
1	ht	191	VAL	CA-C	6.13	1.60	1.52
1	hx	18	ARG	C-O	-6.13	1.16	1.24
1	hz	75	GLU	CA-CB	6.13	1.62	1.53
1	hL	92	GLU	CA-CB	6.13	1.63	1.54
1	i6	22	ALA	C-O	-6.13	1.17	1.24
1	jj	183	ASN	CA-C	-6.13	1.44	1.52
1	jl	206	GLY	CA-C	6.13	1.60	1.51
1	jm	6	LEU	C-N	6.13	1.42	1.33
1	jt	145	TYR	N-CA	-6.13	1.37	1.46
1	ju	167	ARG	NE-CZ	-6.13	1.26	1.33
1	jy	139	ASN	CA-C	-6.13	1.44	1.52
1	k9	112	GLN	CA-C	6.13	1.60	1.52
1	ke	138	LEU	N-CA	-6.13	1.39	1.46
1	lk	221	VAL	C-N	6.13	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lH	147	PRO	CA-CB	6.13	1.62	1.53
1	lJ	170	LYS	C-N	6.13	1.42	1.33
1	2l	120	HIS	N-CA	-6.13	1.37	1.45
1	2B	121	ASN	CA-C	6.13	1.59	1.52
1	2Q	167	ARG	CD-NE	6.13	1.54	1.46
1	2V	60	GLY	C-N	6.13	1.41	1.33
1	3t	124	ILE	CA-C	6.13	1.58	1.53
1	4L	132	ARG	CD-NE	6.13	1.54	1.46
1	4Q	79	GLU	N-CA	-6.13	1.39	1.46
1	4S	173	ARG	CA-CB	6.13	1.63	1.53
1	5f	135	ILE	C-N	6.13	1.41	1.33
1	5h	137	GLY	CA-C	6.13	1.58	1.52
1	6a	99	PRO	CA-CB	6.13	1.62	1.53
1	6h	71	GLU	CA-C	-6.13	1.44	1.52
1	6z	229	ARG	C-N	6.13	1.41	1.33
1	6W	199	LYS	CA-C	6.13	1.60	1.52
1	7r	150	ILE	CA-CB	-6.13	1.45	1.54
1	7s	25	LYS	CA-C	6.13	1.61	1.52
1	9p	123	PRO	C-N	6.13	1.38	1.33
1	9P	122	PRO	C-N	6.13	1.41	1.33
1	bg	175	GLU	C-N	6.13	1.42	1.33
1	by	226	HIS	C-O	-6.13	1.16	1.23
1	c3	135	ILE	CA-C	-6.13	1.45	1.52
1	cp	83	LEU	N-CA	6.13	1.53	1.46
1	cs	177	ALA	N-CA	-6.13	1.38	1.46
1	cS	25	LYS	CA-CB	6.13	1.63	1.53
1	dB	87	HIS	CE1-NE2	6.13	1.38	1.32
1	1p	143	ARG	CD-NE	6.13	1.54	1.46
1	ef	136	LEU	CA-CB	6.13	1.62	1.53
1	eh	22	ALA	CA-CB	6.13	1.62	1.53
1	eF	159	GLU	CA-CB	6.13	1.62	1.52
1	eH	120	HIS	CD2-NE2	6.13	1.44	1.37
1	eK	149	SER	C-N	6.13	1.41	1.34
1	eR	38	PRO	CA-C	6.13	1.61	1.52
1	eU	147	PRO	N-CA	-6.13	1.40	1.47
1	f2	11	VAL	N-CA	-6.13	1.39	1.46
1	fv	88	ALA	CA-C	6.13	1.60	1.52
1	fC	151	LEU	N-CA	6.13	1.53	1.46
1	c	14	ALA	N-CA	-6.13	1.38	1.46
1	B	93	PRO	CA-C	-6.13	1.46	1.52
1	P	165	VAL	CA-C	6.13	1.60	1.52
1	g8	100	ARG	N-CA	6.13	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gp	162	ARG	CA-CB	6.13	1.62	1.53
1	gx	49	PRO	N-CD	-6.13	1.39	1.47
1	h1	91	ILE	CA-CB	6.13	1.62	1.54
1	hc	184	TRP	C-O	-6.13	1.17	1.24
1	hP	93	PRO	C-O	6.13	1.31	1.24
1	iQ	141	ILE	CA-C	-6.13	1.44	1.52
1	jq	173	ARG	CD-NE	6.13	1.54	1.46
1	jz	87	HIS	CD2-NE2	6.13	1.44	1.37
1	jQ	30	LYS	CA-CB	6.13	1.62	1.54
1	lA	52	LEU	N-CA	6.13	1.53	1.46
1	lI	111	LEU	N-CA	6.13	1.54	1.46
1	lR	117	TRP	NE1-CE2	-6.13	1.30	1.37
1	2u	230	VAL	CA-CB	-6.13	1.48	1.54
1	2A	97	ARG	CA-CB	6.13	1.63	1.53
1	2E	210	THR	N-CA	6.13	1.54	1.46
1	2J	111	LEU	N-CA	-6.13	1.39	1.46
1	2R	17	PRO	CA-CB	6.13	1.62	1.53
1	36	31	ALA	CA-C	-6.13	1.47	1.53
1	3X	12	HIS	ND1-CE1	6.13	1.38	1.32
1	4D	94	GLY	N-CA	6.13	1.54	1.45
1	4M	147	PRO	CA-C	-6.13	1.46	1.52
1	4U	2	ILE	CA-C	-6.13	1.44	1.52
1	57	164	TYR	CA-CB	6.13	1.62	1.53
1	5k	56	LEU	C-N	6.13	1.42	1.33
1	5I	156	GLY	C-N	6.13	1.41	1.34
1	5S	134	ILE	CA-CB	6.13	1.62	1.54
1	6m	211	LEU	CA-CB	6.13	1.63	1.53
1	6n	111	LEU	N-CA	-6.13	1.38	1.46
1	6J	121	ASN	CA-C	6.13	1.60	1.52
1	79	125	PRO	CA-C	-6.13	1.43	1.52
1	79	228	ALA	CA-C	-6.13	1.44	1.53
1	7P	117	TRP	NE1-CE2	-6.13	1.30	1.37
1	7T	5	ASN	CA-CB	6.13	1.63	1.53
1	82	120	HIS	N-CA	6.13	1.54	1.46
1	83	163	ASP	N-CA	-6.13	1.39	1.46
1	8f	225	GLY	CA-C	-6.13	1.44	1.52
1	a5	143	ARG	N-CA	6.13	1.53	1.46
1	aX	126	VAL	N-CA	-6.13	1.39	1.46
1	b6	168	PHE	CA-CB	6.13	1.63	1.53
1	bK	227	LYS	C-N	6.13	1.42	1.33
1	bU	200	THR	CA-CB	-6.13	1.42	1.53
1	cE	107	THR	CB-OG1	-6.13	1.33	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cG	83	LEU	CA-C	6.13	1.61	1.52
1	cW	38	PRO	C-N	6.13	1.41	1.33
1	1j	133	TRP	CA-C	6.13	1.60	1.52
1	dj	3	VAL	CA-CB	-6.13	1.47	1.54
1	eV	147	PRO	CA-CB	6.13	1.62	1.53
1	f4	173	ARG	CA-C	6.13	1.61	1.52
1	1w	21	ASN	N-CA	6.13	1.53	1.46
1	fW	71	GLU	C-N	6.13	1.42	1.33
1	R	85	PRO	CA-C	6.13	1.58	1.52
1	h7	48	THR	N-CA	6.12	1.53	1.46
1	hA	203	LYS	N-CA	-6.12	1.39	1.46
1	hE	35	GLU	N-CA	6.12	1.53	1.46
1	hJ	51	ASP	N-CA	-6.12	1.39	1.46
1	ic	135	ILE	CA-CB	6.12	1.62	1.54
1	kO	21	ASN	CA-CB	6.12	1.62	1.53
1	2D	49	PRO	N-CA	6.12	1.55	1.47
1	34	4	GLN	C-N	6.12	1.42	1.33
1	67	23	TRP	NE1-CE2	-6.12	1.30	1.37
1	6x	48	THR	N-CA	6.12	1.53	1.45
1	6Q	226	HIS	ND1-CE1	6.12	1.38	1.32
1	79	76	GLU	CA-CB	6.12	1.63	1.53
1	8I	76	GLU	CA-CB	6.12	1.63	1.53
1	a9	45	GLU	N-CA	-6.12	1.38	1.46
1	al	164	TYR	CZ-OH	6.12	1.50	1.38
1	aL	50	GLN	N-CA	-6.12	1.39	1.46
1	c7	230	VAL	CA-C	-6.12	1.46	1.53
1	eu	57	ASN	C-N	6.12	1.41	1.33
1	fq	36	VAL	CA-CB	-6.12	1.46	1.54
1	fX	84	HIS	ND1-CE1	6.12	1.38	1.32
1	R	137	GLY	CA-C	6.12	1.58	1.52
1	7	207	PRO	C-N	6.12	1.42	1.33
1	gl	13	GLN	C-N	6.12	1.41	1.33
1	gl	30	LYS	N-CA	6.12	1.54	1.46
1	gq	140	LYS	CA-C	-6.12	1.44	1.52
1	gS	139	ASN	N-CA	6.12	1.53	1.46
1	gU	155	GLN	CA-CB	6.12	1.61	1.53
1	h6	224	PRO	CA-CB	6.12	1.62	1.53
1	hh	121	ASN	CA-C	6.12	1.60	1.52
1	hJ	61	GLY	CA-C	-6.12	1.44	1.52
1	is	58	THR	N-CA	6.12	1.54	1.46
1	ix	172	LEU	N-CA	-6.12	1.39	1.46
1	1S	159	GLU	CA-C	6.12	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jx	9	GLN	CA-C	-6.12	1.45	1.52
1	kh	37	ILE	CA-C	6.12	1.59	1.52
1	kh	87	HIS	CB-CG	6.12	1.58	1.50
1	lD	140	LYS	N-CA	-6.12	1.38	1.46
1	lF	20	LEU	CA-CB	6.12	1.63	1.53
1	lJ	16	SER	CA-C	6.12	1.61	1.53
1	2p	202	LEU	CA-C	-6.12	1.45	1.52
1	2y	111	LEU	C-N	6.12	1.42	1.33
1	30	207	PRO	CA-C	6.12	1.59	1.52
1	36	180	GLU	C-N	6.12	1.41	1.33
1	3t	137	GLY	CA-C	6.12	1.59	1.51
1	3N	120	HIS	ND1-CE1	6.12	1.38	1.32
1	3X	27	VAL	CA-CB	-6.12	1.46	1.54
1	45	5	ASN	C-N	6.12	1.41	1.33
1	4w	192	GLN	N-CA	-6.12	1.38	1.46
1	4x	82	ARG	CD-NE	6.12	1.54	1.46
1	5r	165	VAL	CA-C	-6.12	1.45	1.52
1	68	190	LEU	N-CA	-6.12	1.39	1.46
1	6a	9	GLN	N-CA	-6.12	1.38	1.46
1	71	115	ILE	N-CA	6.12	1.53	1.46
1	89	39	MET	CA-C	6.12	1.60	1.52
1	8i	100	ARG	CD-NE	6.12	1.54	1.46
1	94	180	GLU	C-N	6.12	1.41	1.33
1	9g	171	THR	CA-CB	6.12	1.62	1.53
1	9z	24	VAL	CA-C	-6.12	1.45	1.52
1	a0	57	ASN	CA-CB	6.12	1.64	1.53
1	a6	71	GLU	N-CA	-6.12	1.39	1.46
1	aw	226	HIS	ND1-CE1	6.12	1.38	1.32
1	aL	91	ILE	CA-C	6.12	1.60	1.52
1	ci	23	TRP	CZ2-CH2	6.12	1.48	1.37
1	cz	39	MET	CA-C	6.12	1.60	1.52
1	cN	176	GLN	CA-C	6.12	1.60	1.52
1	d4	203	LYS	CA-C	-6.12	1.45	1.52
1	dm	97	ARG	CD-NE	6.12	1.54	1.46
1	1m	226	HIS	ND1-CE1	6.12	1.38	1.32
1	dW	186	THR	CA-C	6.12	1.61	1.52
1	em	80	TRP	CA-CB	6.12	1.62	1.53
1	en	164	TYR	CA-C	6.12	1.60	1.52
1	1r	227	LYS	CA-C	-6.12	1.44	1.52
1	eP	216	THR	C-N	6.12	1.41	1.33
1	0	196	PRO	CA-C	-6.12	1.43	1.52
1	w	22	ALA	CA-C	6.12	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gf	10	MET	CA-CB	6.12	1.63	1.53
1	gS	86	VAL	C-N	6.12	1.42	1.33
1	h8	54	THR	CB-OG1	-6.12	1.33	1.43
1	hq	123	PRO	CA-C	6.12	1.59	1.52
1	hZ	18	ARG	CD-NE	6.12	1.54	1.46
1	i3	138	LEU	N-CA	-6.12	1.39	1.46
1	it	215	MET	CA-C	6.12	1.61	1.52
1	iV	129	ILE	C-N	6.12	1.42	1.33
1	iX	44	SER	N-CA	-6.12	1.39	1.46
1	iZ	128	GLU	CA-CB	6.12	1.63	1.53
1	ju	84	HIS	CA-C	-6.12	1.45	1.52
1	jS	163	ASP	C-N	6.12	1.41	1.33
1	kb	67	GLN	C-N	6.12	1.41	1.33
1	kd	139	ASN	CA-CB	6.12	1.62	1.53
1	kf	200	THR	CA-C	-6.12	1.44	1.52
1	kv	78	ALA	C-O	-6.12	1.17	1.24
1	kz	108	THR	CA-C	6.12	1.60	1.52
1	l9	14	ALA	C-N	6.12	1.41	1.33
1	lR	180	GLU	N-CA	6.12	1.53	1.46
1	2s	222	GLY	C-N	6.12	1.42	1.33
1	2D	84	HIS	C-N	6.12	1.41	1.33
1	5c	188	THR	CA-C	-6.12	1.46	1.53
1	5h	175	GLU	CA-CB	6.12	1.61	1.53
1	5j	175	GLU	C-N	6.12	1.42	1.33
1	60	197	ASP	CA-C	6.12	1.61	1.52
1	66	139	ASN	C-N	-6.12	1.25	1.33
1	6O	136	LEU	N-CA	6.12	1.53	1.46
1	76	56	LEU	CA-CB	6.12	1.62	1.53
1	7f	112	GLN	CA-C	-6.12	1.45	1.52
1	7w	106	GLY	CA-C	-6.12	1.43	1.51
1	7C	145	TYR	CA-CB	6.12	1.63	1.53
1	7M	41	SER	CA-C	-6.12	1.44	1.52
1	7O	2	ILE	N-CA	-6.12	1.39	1.46
1	7W	159	GLU	C-N	-6.12	1.25	1.33
1	8m	87	HIS	CE1-NE2	6.12	1.38	1.32
1	8s	79	GLU	CA-CB	6.12	1.62	1.53
1	8v	152	ASP	C-N	6.12	1.42	1.33
1	8y	172	LEU	C-O	-6.12	1.17	1.24
1	8G	127	GLY	C-N	6.12	1.42	1.33
1	8O	162	ARG	CA-C	6.12	1.60	1.52
1	8R	169	TYR	C-N	6.12	1.42	1.34
1	9R	176	GLN	CA-CB	6.12	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aQ	141	ILE	CA-CB	-6.12	1.47	1.54
1	be	202	LEU	C-O	-6.12	1.17	1.24
1	c9	15	ILE	CA-CB	-6.12	1.47	1.54
1	cG	226	HIS	CG-ND1	6.12	1.45	1.38
1	cK	89	GLY	N-CA	6.12	1.53	1.44
1	d7	183	ASN	C-N	6.12	1.42	1.33
1	1j	160	PRO	CA-C	-6.12	1.45	1.52
1	dC	156	GLY	N-CA	6.12	1.51	1.43
1	dE	170	LYS	C-N	6.12	1.42	1.33
1	e0	104	ILE	CA-CB	6.12	1.62	1.54
1	eO	1	PRO	N-CD	6.12	1.56	1.47
1	fa	225	GLY	C-N	6.12	1.42	1.33
1	fq	195	ASN	CA-C	6.12	1.60	1.53
1	hy	66	MET	C-O	-6.12	1.17	1.24
1	hL	57	ASN	CA-C	-6.12	1.44	1.52
1	i0	182	LYS	CA-C	6.12	1.60	1.52
1	i5	101	GLY	CA-C	-6.12	1.44	1.51
1	kQ	91	ILE	CA-CB	-6.12	1.47	1.54
1	kT	195	ASN	CA-CB	6.12	1.64	1.53
1	ld	199	LYS	N-CA	-6.12	1.38	1.46
1	li	227	LYS	CA-C	6.12	1.62	1.52
1	2f	87	HIS	N-CA	6.12	1.54	1.46
1	4X	210	THR	CA-CB	-6.12	1.43	1.53
1	7a	84	HIS	N-CA	-6.12	1.40	1.46
1	7x	1	PRO	C-N	6.12	1.41	1.33
1	7E	16	SER	CA-C	-6.12	1.44	1.52
1	bY	164	TYR	CZ-OH	6.12	1.50	1.38
1	cX	124	ILE	N-CA	6.12	1.52	1.46
1	dC	194	ALA	CA-C	-6.12	1.44	1.52
1	1n	212	GLU	CA-CB	6.12	1.63	1.53
1	e2	98	GLU	CA-C	6.12	1.60	1.53
1	eB	161	PHE	CA-CB	-6.12	1.47	1.54
1	eN	130	TYR	N-CA	6.12	1.53	1.46
1	k	25	LYS	CA-C	6.12	1.61	1.52
1	ga	40	PHE	CA-C	6.12	1.60	1.52
1	gf	227	LYS	N-CA	6.12	1.53	1.46
1	gl	215	MET	CA-CB	6.12	1.63	1.53
1	gv	45	GLU	N-CA	6.12	1.53	1.46
1	gA	97	ARG	NE-CZ	-6.12	1.26	1.33
1	iK	87	HIS	ND1-CE1	6.12	1.38	1.32
1	iQ	217	ALA	C-N	6.12	1.42	1.33
1	1U	133	TRP	N-CA	6.12	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jw	147	PRO	CA-CB	6.12	1.62	1.53
1	jz	82	ARG	CA-CB	6.12	1.62	1.53
1	jB	12	HIS	CB-CG	6.12	1.58	1.50
1	l9	158	LYS	CA-CB	6.12	1.61	1.53
1	lw	108	THR	CA-CB	-6.12	1.43	1.53
1	lO	21	ASN	CA-C	6.12	1.60	1.52
1	lQ	22	ALA	N-CA	-6.12	1.39	1.46
1	2n	179	GLN	CA-C	6.12	1.60	1.52
1	2o	83	LEU	CB-CG	6.12	1.65	1.53
1	2L	39	MET	C-N	6.12	1.42	1.33
1	4g	52	LEU	CA-C	6.12	1.60	1.52
1	4v	64	ALA	CA-C	6.12	1.60	1.52
1	58	21	ASN	C-N	6.12	1.42	1.33
1	5N	78	ALA	CA-C	-6.12	1.45	1.52
1	69	162	ARG	C-N	6.12	1.42	1.33
1	7g	53	ASN	CA-C	6.12	1.60	1.52
1	7l	32	PHE	CA-CB	6.12	1.60	1.52
1	7o	51	ASP	C-O	-6.12	1.17	1.24
1	7p	130	TYR	N-CA	-6.12	1.39	1.46
1	7P	139	ASN	CA-CB	6.12	1.62	1.53
1	81	104	ILE	CA-C	6.12	1.60	1.52
1	9H	150	ILE	C-N	6.12	1.42	1.33
1	9J	153	ILE	CA-CB	-6.12	1.47	1.54
1	9O	111	LEU	N-CA	6.12	1.53	1.46
1	Z	51	ASP	CA-CB	6.12	1.62	1.53
1	ak	177	ALA	C-N	6.12	1.41	1.33
1	at	104	ILE	N-CA	6.12	1.53	1.46
1	br	164	TYR	CA-C	6.12	1.60	1.52
1	c4	124	ILE	CA-C	-6.12	1.48	1.53
1	1c	23	TRP	NE1-CE2	-6.12	1.30	1.37
1	1f	172	LEU	CA-C	6.12	1.60	1.52
1	e5	134	ILE	CA-C	6.12	1.60	1.52
1	fe	3	VAL	CA-CB	-6.12	1.46	1.54
1	1w	134	ILE	CA-C	6.12	1.60	1.52
1	g5	133	TRP	NE1-CE2	-6.12	1.30	1.37
1	i	75	GLU	N-CA	-6.12	1.39	1.46
1	D	230	VAL	N-CA	6.12	1.53	1.46
1	5	174	ALA	N-CA	-6.12	1.38	1.46
1	hh	227	LYS	N-CA	-6.12	1.38	1.46
1	i3	161	PHE	CA-CB	6.12	1.62	1.53
1	jf	12	HIS	ND1-CE1	6.12	1.38	1.32
1	ly	115	ILE	CA-CB	-6.12	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3B	230	VAL	CA-CB	-6.12	1.46	1.54
1	3G	120	HIS	CA-C	6.12	1.61	1.53
1	55	223	GLY	C-N	-6.12	1.26	1.34
1	65	86	VAL	CA-CB	6.12	1.61	1.54
1	69	161	PHE	CA-C	6.12	1.60	1.52
1	7G	187	GLU	C-N	6.12	1.41	1.33
1	7M	74	ASN	CA-CB	6.12	1.62	1.53
1	8B	23	TRP	CA-C	-6.12	1.45	1.52
1	8M	74	ASN	CA-C	-6.12	1.44	1.52
1	9F	177	ALA	N-CA	-6.12	1.39	1.46
1	10	209	ALA	C-N	6.12	1.41	1.33
1	1e	168	PHE	CA-CB	6.12	1.62	1.53
1	dn	15	ILE	C-O	-6.12	1.18	1.24
1	1q	131	LYS	CA-CB	6.12	1.62	1.53
1	eG	91	ILE	CA-CB	6.12	1.62	1.54
1	fz	141	ILE	C-N	6.12	1.41	1.33
1	fD	179	GLN	C-O	-6.12	1.17	1.24
1	M	28	GLU	CA-C	6.12	1.60	1.52
1	P	54	THR	C-N	6.12	1.42	1.33
1	9	150	ILE	CA-CB	6.12	1.62	1.54
1	9	219	GLN	CA-CB	6.12	1.63	1.53
1	gg	22	ALA	N-CA	-6.12	1.39	1.46
1	gj	23	TRP	CA-CB	6.12	1.62	1.53
1	h2	10	MET	CA-CB	6.12	1.60	1.52
1	h5	138	LEU	C-O	-6.12	1.16	1.24
1	hh	151	LEU	C-O	-6.12	1.16	1.24
1	hn	121	ASN	CA-C	6.12	1.59	1.52
1	hw	3	VAL	CA-C	6.12	1.61	1.53
1	hQ	140	LYS	CA-CB	6.12	1.62	1.53
1	ip	189	LEU	CA-C	6.12	1.60	1.52
1	iQ	186	THR	CA-C	-6.12	1.44	1.52
1	j6	88	ALA	CA-CB	6.12	1.62	1.53
1	jW	92	GLU	C-N	6.12	1.40	1.33
1	kC	202	LEU	CA-CB	6.12	1.62	1.53
1	kE	152	ASP	CA-C	6.12	1.61	1.52
1	kJ	231	LEU	N-CA	6.12	1.57	1.46
1	kO	65	ALA	CA-CB	6.12	1.62	1.53
1	lq	202	LEU	CA-C	-6.12	1.44	1.52
1	2z	87	HIS	CA-CB	6.12	1.64	1.53
1	3p	203	LYS	C-N	6.12	1.42	1.33
1	4a	24	VAL	CA-C	6.12	1.60	1.52
1	4m	187	GLU	CA-C	-6.12	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4s	131	LYS	CA-C	-6.12	1.45	1.52
1	4v	29	GLU	N-CA	-6.12	1.37	1.45
1	53	151	LEU	C-N	6.12	1.41	1.33
1	5E	183	ASN	CA-C	6.12	1.60	1.52
1	5F	81	ASP	CA-C	-6.12	1.44	1.52
1	5R	110	THR	CA-C	-6.12	1.44	1.52
1	6m	131	LYS	CA-C	-6.12	1.44	1.52
1	7w	96	MET	CA-C	6.12	1.61	1.52
1	7y	50	GLN	CA-CB	6.12	1.62	1.53
1	7I	9	GLN	CA-CB	6.12	1.63	1.53
1	8j	4	GLN	CA-CB	6.12	1.63	1.53
1	8B	142	VAL	CA-CB	-6.12	1.46	1.54
1	93	2	ILE	CA-C	6.12	1.59	1.52
1	9k	41	SER	C-N	6.12	1.41	1.33
1	9o	125	PRO	C-N	6.12	1.41	1.34
1	9s	36	VAL	C-N	6.12	1.40	1.33
1	9F	123	PRO	CA-C	-6.12	1.45	1.52
1	9N	123	PRO	N-CD	-6.12	1.39	1.47
1	9Y	41	SER	CA-C	-6.12	1.44	1.52
1	aD	12	HIS	ND1-CE1	6.12	1.38	1.32
1	aW	227	LYS	CA-CB	6.12	1.63	1.53
1	b2	163	ASP	CA-CB	6.12	1.62	1.53
1	bb	45	GLU	CA-C	6.12	1.61	1.52
1	1j	221	VAL	CA-C	6.12	1.59	1.52
1	ds	90	PRO	N-CA	-6.12	1.40	1.47
1	dv	112	GLN	N-CA	6.12	1.53	1.46
1	dX	129	ILE	CA-C	-6.12	1.44	1.52
1	ev	58	THR	C-N	6.12	1.41	1.33
1	1r	164	TYR	CA-CB	6.12	1.62	1.53
1	eF	67	GLN	CA-CB	6.12	1.62	1.53
1	eT	32	PHE	N-CA	6.12	1.53	1.46
1	eT	184	TRP	CA-C	-6.12	1.45	1.52
1	fs	146	SER	CA-CB	6.12	1.61	1.53
1	fu	136	LEU	C-N	6.12	1.41	1.33
1	fP	170	LYS	C-N	6.12	1.41	1.33
1	g6	212	GLU	CA-CB	6.12	1.62	1.53
1	G	35	GLU	CA-C	6.12	1.60	1.52
1	M	138	LEU	CA-CB	6.12	1.62	1.53
1	ia	200	THR	C-N	6.11	1.41	1.33
1	ii	145	TYR	CA-CB	6.11	1.61	1.53
1	iK	71	GLU	CA-C	-6.11	1.44	1.52
1	iK	164	TYR	CA-CB	6.11	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j8	78	ALA	C-N	6.11	1.41	1.33
1	kA	82	ARG	CA-C	-6.11	1.45	1.52
1	2A	92	GLU	C-N	6.11	1.40	1.33
1	2V	54	THR	CA-C	6.11	1.60	1.52
1	3E	118	MET	N-CA	-6.11	1.39	1.46
1	4t	141	ILE	N-CA	6.11	1.53	1.46
1	4x	87	HIS	ND1-CE1	6.11	1.38	1.32
1	5t	36	VAL	CA-CB	-6.11	1.46	1.54
1	6E	200	THR	C-O	-6.11	1.17	1.24
1	6G	30	LYS	C-N	6.11	1.40	1.32
1	6M	46	GLY	C-N	6.11	1.41	1.33
1	7I	76	GLU	N-CA	6.11	1.54	1.46
1	7S	12	HIS	ND1-CE1	6.11	1.38	1.32
1	8k	54	THR	CA-CB	-6.11	1.43	1.53
1	8q	133	TRP	C-N	-6.11	1.26	1.33
1	8X	62	HIS	CB-CG	-6.11	1.41	1.50
1	96	9	GLN	CA-CB	6.11	1.63	1.53
1	9n	101	GLY	N-CA	6.11	1.53	1.45
1	9G	16	SER	CA-C	6.11	1.60	1.52
1	a9	99	PRO	C-N	6.11	1.41	1.33
1	aw	71	GLU	CA-C	-6.11	1.45	1.52
1	aQ	133	TRP	C-N	6.11	1.41	1.33
1	aW	56	LEU	CA-C	6.11	1.60	1.52
1	bL	183	ASN	CA-C	6.11	1.60	1.52
1	cA	115	ILE	C-N	6.11	1.41	1.33
1	cE	108	THR	CA-C	-6.11	1.45	1.52
1	cY	141	ILE	C-N	6.11	1.41	1.33
1	e3	126	VAL	C-N	6.11	1.41	1.33
1	eo	179	GLN	N-CA	-6.11	1.39	1.46
1	ev	166	ASP	CA-CB	-6.11	1.43	1.53
1	eF	142	VAL	CA-C	-6.11	1.45	1.52
1	o	138	LEU	CA-CB	-6.11	1.43	1.53
1	u	80	TRP	CA-C	6.11	1.60	1.52
1	4	119	THR	N-CA	6.11	1.54	1.45
1	O	167	ARG	N-CA	-6.11	1.38	1.46
1	O	226	HIS	ND1-CE1	6.11	1.38	1.32
1	U	103	ASP	C-N	6.11	1.41	1.33
1	6	226	HIS	CB-CG	6.11	1.58	1.50
1	1C	134	ILE	N-CA	-6.11	1.39	1.46
1	gr	23	TRP	NE1-CE2	-6.11	1.30	1.37
1	gv	18	ARG	C-O	-6.11	1.16	1.24
1	jg	141	ILE	C-N	6.11	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jv	219	GLN	CA-C	-6.11	1.45	1.52
1	jH	114	GLN	N-CA	-6.11	1.39	1.46
1	3j	162	ARG	CA-CB	6.11	1.63	1.53
1	3G	184	TRP	CA-CB	6.11	1.62	1.53
1	4J	12	HIS	CG-ND1	-6.11	1.31	1.38
1	75	167	ARG	C-N	6.11	1.41	1.33
1	7a	204	ALA	CA-C	6.11	1.60	1.52
1	7i	120	HIS	N-CA	-6.11	1.37	1.45
1	7p	98	GLU	C-N	6.11	1.39	1.33
1	7s	69	LEU	CA-CB	6.11	1.62	1.53
1	7z	204	ALA	CA-CB	6.11	1.62	1.53
1	8W	184	TRP	C-N	6.11	1.41	1.33
1	9o	173	ARG	C-N	6.11	1.42	1.33
1	c0	77	ALA	CA-C	6.11	1.60	1.52
1	cr	93	PRO	N-CD	-6.11	1.39	1.47
1	1f	174	ALA	C-N	6.11	1.41	1.33
1	dQ	100	ARG	N-CA	6.11	1.53	1.45
1	e3	144	MET	CA-CB	6.11	1.62	1.53
1	eM	207	PRO	N-CA	6.11	1.54	1.47
1	1u	64	ALA	N-CA	-6.11	1.39	1.46
1	fd	175	GLU	C-N	6.11	1.41	1.33
1	fn	193	ASN	CA-CB	6.11	1.63	1.53
1	g6	4	GLN	N-CA	-6.11	1.38	1.46
1	a	213	GLU	CA-CB	-6.11	1.43	1.53
1	C	219	GLN	CA-C	6.11	1.60	1.52
1	5	59	VAL	CA-CB	-6.11	1.46	1.54
1	g8	220	GLY	C-N	6.11	1.41	1.33
1	gp	191	VAL	CA-CB	-6.11	1.45	1.54
1	gH	55	MET	CA-C	6.11	1.60	1.52
1	h6	25	LYS	N-CA	-6.11	1.39	1.46
1	h7	51	ASP	CA-C	6.11	1.60	1.52
1	1J	47	ALA	CA-CB	6.11	1.63	1.53
1	hs	208	ALA	CA-C	6.11	1.60	1.52
1	hD	98	GLU	C-N	6.11	1.40	1.33
1	1Q	199	LYS	N-CA	6.11	1.53	1.46
1	iz	9	GLN	CA-CB	6.11	1.60	1.53
1	jg	185	MET	N-CA	-6.11	1.39	1.46
1	jm	120	HIS	CG-CD2	6.11	1.42	1.35
1	k6	212	GLU	CA-C	6.11	1.60	1.52
1	kf	195	ASN	C-O	6.11	1.31	1.23
1	kf	208	ALA	C-N	6.11	1.41	1.33
1	26	226	HIS	CA-C	-6.11	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l9	153	ILE	N-CA	-6.11	1.40	1.46
1	lc	18	ARG	C-N	6.11	1.42	1.33
1	lH	177	ALA	N-CA	-6.11	1.38	1.46
1	lI	90	PRO	CA-C	6.11	1.61	1.52
1	lN	171	THR	N-CA	6.11	1.53	1.46
1	2c	102	SER	CA-CB	6.11	1.62	1.53
1	2k	185	MET	N-CA	-6.11	1.39	1.46
1	2G	118	MET	N-CA	-6.11	1.38	1.46
1	2U	226	HIS	N-CA	6.11	1.53	1.46
1	31	23	TRP	C-O	6.11	1.31	1.24
1	3e	85	PRO	CA-CB	6.11	1.57	1.53
1	45	88	ALA	CA-C	6.11	1.59	1.52
1	4v	154	ARG	CD-NE	6.11	1.54	1.46
1	6v	48	THR	CA-C	6.11	1.61	1.53
1	6E	62	HIS	C-N	6.11	1.42	1.34
1	73	168	PHE	CA-CB	6.11	1.62	1.53
1	78	179	GLN	N-CA	6.11	1.54	1.46
1	79	151	LEU	C-N	6.11	1.42	1.33
1	86	103	ASP	CA-CB	6.11	1.63	1.53
1	8g	156	GLY	C-N	-6.11	1.26	1.34
1	8s	153	ILE	CA-C	6.11	1.60	1.52
1	9b	103	ASP	C-N	6.11	1.41	1.33
1	9R	201	ILE	CA-CB	6.11	1.61	1.54
1	a4	201	ILE	CA-CB	-6.11	1.46	1.54
1	ag	190	LEU	C-N	6.11	1.41	1.33
1	aj	117	TRP	NE1-CE2	6.11	1.44	1.37
1	al	218	CYS	CA-C	-6.11	1.46	1.53
1	ar	169	TYR	CA-C	6.11	1.60	1.52
1	aD	93	PRO	CA-CB	6.11	1.61	1.53
1	bt	141	ILE	C-N	6.11	1.41	1.33
1	bx	224	PRO	CA-C	6.11	1.61	1.52
1	bX	228	ALA	CA-C	6.11	1.60	1.52
1	cd	202	LEU	C-O	-6.11	1.16	1.24
1	cw	30	LYS	CA-CB	6.11	1.59	1.53
1	dp	185	MET	CA-CB	6.11	1.62	1.53
1	dF	173	ARG	CD-NE	6.11	1.54	1.46
1	et	194	ALA	CA-C	-6.11	1.44	1.53
1	f5	189	LEU	N-CA	-6.11	1.39	1.46
1	fo	83	LEU	CA-C	-6.11	1.45	1.52
1	g1	71	GLU	CA-C	-6.11	1.45	1.52
1	h	84	HIS	CA-C	-6.11	1.45	1.52
1	E	110	THR	CA-C	-6.11	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kc	208	ALA	CA-C	6.11	1.61	1.52
1	kY	176	GLN	C-N	6.11	1.42	1.33
1	lj	6	LEU	CA-C	-6.11	1.44	1.52
1	ls	106	GLY	C-N	6.11	1.41	1.33
1	lE	66	MET	CA-CB	6.11	1.63	1.53
1	2w	56	LEU	CA-C	6.11	1.60	1.52
1	41	62	HIS	CA-C	6.11	1.61	1.53
1	6z	87	HIS	ND1-CE1	6.11	1.38	1.32
1	74	162	ARG	CA-C	6.11	1.61	1.52
1	77	150	ILE	C-N	6.11	1.42	1.33
1	7z	191	VAL	CA-C	6.11	1.61	1.52
1	8E	16	SER	C-N	-6.11	1.26	1.34
1	97	165	VAL	CA-CB	-6.11	1.46	1.54
1	9j	68	MET	N-CA	-6.11	1.39	1.46
1	9J	23	TRP	NE1-CE2	-6.11	1.30	1.37
1	a4	191	VAL	C-N	-6.11	1.25	1.33
1	cC	6	LEU	C-N	6.11	1.42	1.33
1	dh	69	LEU	CA-CB	6.11	1.62	1.53
1	dL	16	SER	N-CA	6.11	1.52	1.45
1	e3	184	TRP	CA-CB	6.11	1.63	1.53
1	eh	33	SER	CA-C	6.11	1.58	1.52
1	1r	214	MET	CA-CB	6.11	1.63	1.53
1	ex	181	VAL	C-N	6.11	1.41	1.33
1	eO	35	GLU	CA-CB	6.11	1.64	1.53
1	fH	16	SER	C-N	-6.11	1.26	1.33
1	gs	228	ALA	CA-C	-6.11	1.45	1.52
1	gN	17	PRO	N-CD	6.11	1.56	1.47
1	hz	125	PRO	CA-CB	6.11	1.62	1.53
1	hW	116	GLY	C-N	6.11	1.42	1.33
1	iw	195	ASN	CA-C	6.11	1.60	1.52
1	iF	51	ASP	C-N	6.11	1.42	1.33
1	iO	92	GLU	CA-C	6.11	1.61	1.53
1	j2	209	ALA	N-CA	6.11	1.53	1.45
1	kr	153	ILE	CA-C	-6.11	1.44	1.52
1	25	132	ARG	N-CA	6.11	1.53	1.46
1	lA	65	ALA	CA-C	-6.11	1.45	1.52
1	lL	77	ALA	C-N	6.11	1.42	1.33
1	2a	62	HIS	CE1-NE2	6.11	1.38	1.32
1	2l	94	GLY	C-N	-6.11	1.25	1.33
1	2G	104	ILE	CA-C	6.11	1.60	1.52
1	2L	149	SER	CA-C	6.11	1.61	1.53
1	3h	193	ASN	C-N	-6.11	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3K	33	SER	CA-C	-6.11	1.46	1.53
1	3R	128	GLU	N-CA	6.11	1.53	1.46
1	4n	34	PRO	N-CD	6.11	1.56	1.47
1	4s	171	THR	CA-C	6.11	1.60	1.52
1	4D	130	TYR	CA-C	6.11	1.60	1.52
1	4N	117	TRP	C-N	6.11	1.43	1.33
1	5b	116	GLY	N-CA	6.11	1.53	1.45
1	5D	222	GLY	CA-C	-6.11	1.43	1.51
1	6G	201	ILE	C-N	6.11	1.41	1.33
1	6O	62	HIS	CE1-NE2	6.11	1.38	1.32
1	7m	123	PRO	C-N	6.11	1.40	1.33
1	8m	174	ALA	C-N	6.11	1.41	1.33
1	8y	37	ILE	CA-CB	6.11	1.58	1.53
1	8P	123	PRO	C-N	6.11	1.40	1.33
1	9N	12	HIS	CA-C	-6.11	1.45	1.52
1	9O	125	PRO	N-CA	6.11	1.52	1.47
1	ah	104	ILE	N-CA	-6.11	1.39	1.46
1	ak	169	TYR	CA-C	6.11	1.60	1.52
1	aQ	73	ILE	N-CA	6.11	1.54	1.46
1	aS	200	THR	C-N	6.11	1.41	1.33
1	bB	223	GLY	CA-C	-6.11	1.43	1.51
1	19	169	TYR	CA-CB	6.11	1.62	1.53
1	dJ	18	ARG	CD-NE	6.11	1.54	1.46
1	dO	134	ILE	CB-CG1	6.11	1.65	1.53
1	dV	117	TRP	NE1-CE2	6.11	1.44	1.37
1	1o	5	ASN	CA-C	6.11	1.59	1.52
1	eB	87	HIS	ND1-CE1	6.11	1.38	1.32
1	eV	192	GLN	CA-C	6.11	1.60	1.52
1	fp	108	THR	CA-C	-6.11	1.44	1.52
1	g	144	MET	N-CA	-6.11	1.39	1.46
1	o	182	LYS	CA-CB	6.11	1.63	1.53
1	S	162	ARG	CD-NE	6.11	1.54	1.46
1	gi	120	HIS	CG-CD2	-6.11	1.29	1.35
1	gL	176	GLN	N-CA	-6.11	1.37	1.46
1	hs	203	LYS	C-N	-6.11	1.26	1.33
1	ht	120	HIS	C-N	-6.11	1.24	1.33
1	1K	12	HIS	C-N	6.11	1.41	1.33
1	hL	9	GLN	C-N	6.11	1.42	1.33
1	hV	149	SER	CA-C	-6.11	1.45	1.52
1	iD	134	ILE	CA-C	6.11	1.60	1.52
1	iE	186	THR	CA-C	-6.11	1.44	1.52
1	1Y	154	ARG	CD-NE	6.11	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k4	211	LEU	CA-C	-6.11	1.44	1.52
1	kN	227	LYS	CA-C	-6.11	1.44	1.53
1	l3	26	VAL	C-O	-6.11	1.17	1.24
1	2y	115	ILE	N-CA	6.11	1.53	1.46
1	2N	93	PRO	N-CD	-6.11	1.39	1.47
1	33	84	HIS	C-O	-6.11	1.20	1.25
1	3R	175	GLU	CA-C	6.11	1.61	1.52
1	4y	51	ASP	CA-C	-6.11	1.44	1.52
1	5y	40	PHE	CA-C	6.11	1.60	1.52
1	5B	199	LYS	CA-CB	6.11	1.63	1.53
1	5D	16	SER	C-O	-6.11	1.15	1.24
1	60	120	HIS	ND1-CE1	6.11	1.38	1.32
1	6r	53	ASN	CA-CB	6.11	1.62	1.53
1	6K	216	THR	CA-C	-6.11	1.45	1.52
1	77	20	LEU	C-N	6.11	1.42	1.33
1	7W	162	ARG	CD-NE	6.11	1.54	1.46
1	85	120	HIS	CE1-NE2	6.11	1.38	1.32
1	8A	101	GLY	N-CA	6.11	1.53	1.45
1	8M	213	GLU	CA-C	6.11	1.60	1.52
1	92	163	ASP	CA-CB	6.11	1.63	1.53
1	9S	30	LYS	CA-C	-6.11	1.44	1.52
1	10	132	ARG	CD-NE	6.11	1.54	1.46
1	aA	103	ASP	C-N	6.11	1.41	1.33
1	aL	120	HIS	C-N	6.11	1.41	1.33
1	aX	65	ALA	C-N	6.11	1.42	1.33
1	b1	167	ARG	CD-NE	6.11	1.54	1.46
1	17	87	HIS	ND1-CE1	6.11	1.38	1.32
1	17	103	ASP	C-N	6.11	1.41	1.33
1	1c	92	GLU	CA-C	-6.11	1.46	1.53
1	1c	104	ILE	CA-C	6.11	1.61	1.52
1	ca	220	GLY	CA-C	-6.11	1.45	1.52
1	cN	129	ILE	CA-CB	-6.11	1.46	1.54
1	dv	56	LEU	CA-C	6.11	1.60	1.52
1	dY	87	HIS	CG-CD2	6.11	1.42	1.35
1	fd	117	TRP	N-CA	-6.11	1.38	1.46
1	fr	20	LEU	CA-C	-6.11	1.44	1.52
1	fA	58	THR	N-CA	6.11	1.54	1.46
1	fB	129	ILE	CA-C	6.11	1.60	1.52
1	fV	6	LEU	CA-C	6.11	1.60	1.52
1	fX	1	PRO	CA-C	-6.11	1.40	1.52
1	g3	116	GLY	CA-C	-6.11	1.45	1.52
1	c	63	GLN	CA-CB	6.11	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	116	GLY	CA-C	-6.11	1.44	1.51
1	h4	68	MET	CA-C	-6.10	1.45	1.52
1	ht	140	LYS	C-N	6.10	1.40	1.34
1	hC	179	GLN	CA-CB	6.10	1.62	1.53
1	hZ	11	VAL	N-CA	-6.10	1.39	1.46
1	ie	92	GLU	CA-C	6.10	1.60	1.52
1	ju	3	VAL	CA-C	-6.10	1.45	1.52
1	km	138	LEU	C-N	6.10	1.41	1.33
1	2o	56	LEU	C-N	6.10	1.43	1.33
1	2t	159	GLU	CA-C	6.10	1.59	1.52
1	3p	62	HIS	CE1-NE2	6.10	1.38	1.32
1	40	176	GLN	CA-C	6.10	1.63	1.52
1	55	26	VAL	C-N	6.10	1.41	1.33
1	5T	53	ASN	CA-CB	6.10	1.62	1.53
1	6h	30	LYS	CA-C	-6.10	1.44	1.52
1	7j	138	LEU	C-N	6.10	1.42	1.33
1	7k	86	VAL	CA-C	6.10	1.60	1.52
1	7X	178	SER	C-N	6.10	1.41	1.33
1	8H	181	VAL	C-N	6.10	1.41	1.33
1	9s	161	PHE	C-O	-6.10	1.17	1.24
1	9N	151	LEU	CA-C	6.10	1.61	1.52
1	aN	120	HIS	ND1-CE1	6.10	1.38	1.32
1	bm	54	THR	N-CA	6.10	1.53	1.46
1	cA	173	ARG	CA-C	-6.10	1.44	1.52
1	dB	97	ARG	CA-CB	6.10	1.63	1.53
1	eh	62	HIS	CD2-NE2	6.10	1.44	1.37
1	ep	4	GLN	CA-C	-6.10	1.45	1.52
1	f9	96	MET	CA-C	6.10	1.60	1.52
1	fc	44	SER	CA-CB	6.10	1.61	1.52
1	g2	108	THR	N-CA	6.10	1.53	1.46
1	w	84	HIS	ND1-CE1	6.10	1.38	1.32
1	gj	15	ILE	CA-CB	6.10	1.60	1.53
1	gl	190	LEU	CA-C	-6.10	1.44	1.52
1	gO	11	VAL	CA-CB	-6.10	1.46	1.53
1	1G	132	ARG	CZ-NH2	-6.10	1.25	1.33
1	hb	160	PRO	C-N	6.10	1.42	1.34
1	i2	51	ASP	CA-CB	6.10	1.62	1.53
1	1N	134	ILE	CA-CB	6.10	1.61	1.54
1	iD	171	THR	C-N	6.10	1.41	1.33
1	iP	88	ALA	CA-C	6.10	1.60	1.52
1	ja	57	ASN	CA-C	-6.10	1.44	1.52
1	ja	176	GLN	CA-CB	6.10	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jn	2	ILE	N-CA	6.10	1.53	1.46
1	jw	181	VAL	CA-CB	-6.10	1.45	1.54
1	jF	199	LYS	C-O	-6.10	1.17	1.24
1	1Y	100	ARG	CD-NE	6.10	1.54	1.46
1	jW	65	ALA	CA-C	6.10	1.60	1.52
1	kq	54	THR	CA-CB	6.10	1.62	1.53
1	kJ	209	ALA	C-N	6.10	1.41	1.33
1	lp	36	VAL	CA-C	6.10	1.60	1.52
1	2n	134	ILE	CA-C	6.10	1.60	1.52
1	2v	163	ASP	CA-CB	6.10	1.62	1.53
1	3k	64	ALA	N-CA	6.10	1.53	1.46
1	3O	204	ALA	CA-C	6.10	1.60	1.52
1	4j	132	ARG	CD-NE	6.10	1.54	1.46
1	52	81	ASP	CA-CB	6.10	1.62	1.53
1	6f	123	PRO	C-N	6.10	1.38	1.33
1	6h	121	ASN	CA-CB	6.10	1.60	1.53
1	6H	3	VAL	CA-C	6.10	1.59	1.52
1	74	102	SER	CA-CB	6.10	1.63	1.53
1	9h	84	HIS	CA-C	6.10	1.59	1.52
1	9j	86	VAL	CA-C	-6.10	1.45	1.52
1	9u	146	SER	C-N	6.10	1.41	1.33
1	9A	143	ARG	CD-NE	6.10	1.54	1.46
1	9C	83	LEU	N-CA	-6.10	1.38	1.46
1	aj	102	SER	CA-C	6.10	1.61	1.52
1	at	57	ASN	CA-C	6.10	1.60	1.52
1	bh	206	GLY	C-N	6.10	1.41	1.33
1	bZ	108	THR	N-CA	6.10	1.53	1.46
1	1c	207	PRO	C-N	6.10	1.42	1.33
1	cc	84	HIS	CD2-NE2	6.10	1.44	1.37
1	cf	164	TYR	CA-CB	6.10	1.63	1.53
1	1e	18	ARG	C-N	6.10	1.42	1.33
1	1h	183	ASN	CA-C	6.10	1.60	1.52
1	cX	88	ALA	CA-C	6.10	1.60	1.52
1	dw	18	ARG	N-CA	-6.10	1.39	1.46
1	dx	129	ILE	CA-C	6.10	1.60	1.52
1	eP	190	LEU	CA-C	-6.10	1.44	1.52
1	fv	141	ILE	C-N	6.10	1.42	1.33
1	fI	95	GLN	C-N	6.10	1.42	1.33
1	g2	134	ILE	CA-C	6.10	1.60	1.52
1	q	174	ALA	CA-CB	-6.10	1.43	1.53
1	H	150	ILE	N-CA	6.10	1.53	1.46
1	N	179	GLN	CA-C	6.10	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	23	TRP	NE1-CE2	-6.10	1.30	1.37
1	gL	153	ILE	CA-C	6.10	1.60	1.52
1	hF	124	ILE	CA-C	6.10	1.58	1.53
1	i0	157	PRO	C-N	6.10	1.43	1.33
1	i0	216	THR	N-CA	6.10	1.53	1.46
1	ij	40	PHE	N-CA	6.10	1.53	1.46
1	im	163	ASP	CA-CB	6.10	1.63	1.53
1	iX	39	MET	C-N	6.10	1.42	1.33
1	jA	133	TRP	N-CA	-6.10	1.38	1.46
1	jY	181	VAL	CA-C	6.10	1.60	1.52
1	kw	126	VAL	CA-C	-6.10	1.43	1.52
1	lP	49	PRO	C-N	6.10	1.41	1.33
1	2d	97	ARG	CA-CB	6.10	1.63	1.53
1	2H	23	TRP	CA-CB	6.10	1.62	1.53
1	3E	103	ASP	CA-C	6.10	1.60	1.52
1	4G	35	GLU	C-N	6.10	1.41	1.33
1	4X	227	LYS	N-CA	6.10	1.53	1.46
1	5F	161	PHE	C-N	6.10	1.42	1.33
1	68	111	LEU	CA-CB	6.10	1.62	1.53
1	6k	90	PRO	CA-CB	6.10	1.62	1.53
1	9p	153	ILE	CA-C	6.10	1.59	1.52
1	9F	141	ILE	CA-CB	6.10	1.61	1.54
1	a1	108	THR	CA-C	6.10	1.60	1.52
1	at	132	ARG	CA-C	6.10	1.60	1.52
1	aM	120	HIS	CG-ND1	6.10	1.45	1.38
1	bc	70	LYS	CA-CB	6.10	1.63	1.53
1	bg	81	ASP	C-N	6.10	1.42	1.33
1	bW	94	GLY	N-CA	6.10	1.56	1.45
1	cC	149	SER	CA-C	-6.10	1.45	1.52
1	cL	227	LYS	C-N	6.10	1.41	1.33
1	1o	13	GLN	N-CA	6.10	1.53	1.45
1	fK	138	LEU	C-O	-6.10	1.17	1.24
1	1z	199	LYS	N-CA	6.10	1.53	1.46
1	o	121	ASN	CA-CB	6.10	1.61	1.54
1	X	127	GLY	CA-C	-6.10	1.43	1.51
1	gD	100	ARG	C-N	6.10	1.42	1.33
1	gH	41	SER	CA-CB	6.10	1.63	1.53
1	hz	104	ILE	N-CA	-6.10	1.38	1.46
1	hG	109	SER	CA-C	6.10	1.59	1.52
1	i8	133	TRP	NE1-CE2	6.10	1.44	1.37
1	ib	22	ALA	CA-CB	6.10	1.62	1.53
1	ij	99	PRO	N-CA	-6.10	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ik	63	GLN	CA-C	-6.10	1.44	1.52
1	iY	120	HIS	CA-CB	6.10	1.61	1.53
1	jC	67	GLN	C-N	6.10	1.42	1.33
1	jD	62	HIS	CG-ND1	6.10	1.45	1.38
1	l1	92	GLU	CA-CB	6.10	1.62	1.53
1	26	29	GLU	CA-CB	6.10	1.63	1.53
1	ld	98	GLU	N-CA	-6.10	1.37	1.46
1	lo	97	ARG	CZ-NH2	-6.10	1.25	1.33
1	lw	142	VAL	CA-C	6.10	1.60	1.52
1	lA	75	GLU	N-CA	-6.10	1.39	1.46
1	lB	84	HIS	N-CA	-6.10	1.40	1.46
1	lB	156	GLY	N-CA	6.10	1.53	1.44
1	2m	41	SER	CA-CB	6.10	1.62	1.53
1	2J	42	ALA	CA-C	6.10	1.60	1.52
1	3t	83	LEU	CA-CB	6.10	1.62	1.53
1	3t	187	GLU	CA-CB	6.10	1.62	1.53
1	3C	11	VAL	N-CA	6.10	1.53	1.46
1	43	84	HIS	C-N	6.10	1.40	1.33
1	4b	222	GLY	N-CA	6.10	1.53	1.44
1	4u	27	VAL	CA-CB	-6.10	1.46	1.54
1	4L	47	ALA	C-N	6.10	1.42	1.33
1	4R	222	GLY	CA-C	-6.10	1.43	1.51
1	4W	143	ARG	CZ-NH2	6.10	1.41	1.33
1	4Z	142	VAL	N-CA	6.10	1.54	1.46
1	5L	88	ALA	CA-C	6.10	1.59	1.52
1	6q	122	PRO	C-N	6.10	1.41	1.33
1	6t	125	PRO	C-N	6.10	1.41	1.33
1	6K	36	VAL	CA-C	6.10	1.60	1.52
1	6O	116	GLY	CA-C	-6.10	1.45	1.51
1	77	87	HIS	ND1-CE1	6.10	1.38	1.32
1	7a	227	LYS	N-CA	6.10	1.53	1.46
1	7x	112	GLN	N-CA	6.10	1.53	1.46
1	7G	197	ASP	CA-C	-6.10	1.44	1.52
1	7Q	108	THR	N-CA	-6.10	1.38	1.46
1	8j	87	HIS	ND1-CE1	6.10	1.38	1.32
1	8r	177	ALA	CA-C	-6.10	1.45	1.52
1	a8	142	VAL	CA-C	-6.10	1.43	1.52
1	a8	195	ASN	CA-C	6.10	1.61	1.53
1	aV	17	PRO	C-N	6.10	1.42	1.33
1	b6	91	ILE	C-N	6.10	1.42	1.33
1	b8	120	HIS	ND1-CE1	6.10	1.38	1.32
1	bk	110	THR	N-CA	-6.10	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	216	THR	C-N	6.10	1.41	1.33
1	d4	147	PRO	C-N	6.10	1.41	1.33
1	dd	195	ASN	CA-CB	6.10	1.62	1.53
1	dd	204	ALA	CA-CB	-6.10	1.44	1.53
1	do	20	LEU	CA-CB	6.10	1.62	1.53
1	dv	52	LEU	CA-C	6.10	1.60	1.52
1	dZ	184	TRP	CA-CB	6.10	1.62	1.53
1	eq	53	ASN	CA-C	-6.10	1.44	1.52
1	eQ	132	ARG	CZ-NH2	-6.10	1.25	1.33
1	eZ	218	CYS	C-N	6.10	1.41	1.33
1	fh	159	GLU	C-N	-6.10	1.28	1.33
1	fj	215	MET	N-CA	-6.10	1.38	1.46
1	fT	200	THR	N-CA	6.10	1.53	1.46
1	d	75	GLU	N-CA	6.10	1.53	1.46
1	x	21	ASN	CA-CB	6.10	1.62	1.53
1	C	140	LYS	CA-C	6.10	1.60	1.52
1	3	129	ILE	N-CA	-6.10	1.38	1.46
1	gq	24	VAL	CA-CB	6.10	1.61	1.54
1	ho	69	LEU	N-CA	-6.10	1.39	1.46
1	hL	173	ARG	CD-NE	6.10	1.54	1.46
1	hY	87	HIS	CA-CB	6.10	1.63	1.53
1	id	117	TRP	NE1-CE2	-6.10	1.30	1.37
1	ie	167	ARG	CZ-NH2	-6.10	1.25	1.33
1	1S	114	GLN	CA-CB	6.10	1.62	1.53
1	1V	42	ALA	CA-C	6.10	1.60	1.52
1	jM	127	GLY	CA-C	-6.10	1.45	1.52
1	kg	171	THR	C-N	6.10	1.41	1.33
1	22	53	ASN	CA-C	6.10	1.60	1.52
1	ll	36	VAL	CA-C	6.10	1.60	1.52
1	2x	82	ARG	CA-CB	6.10	1.61	1.53
1	3f	220	GLY	C-N	6.10	1.41	1.33
1	3m	78	ALA	N-CA	-6.10	1.39	1.46
1	3w	120	HIS	CB-CG	6.10	1.58	1.50
1	3N	154	ARG	N-CA	-6.10	1.38	1.46
1	3P	219	GLN	CA-C	-6.10	1.44	1.52
1	3Z	192	GLN	CA-C	6.10	1.61	1.52
1	5w	188	THR	CB-OG1	6.10	1.53	1.43
1	5G	37	ILE	CA-CB	-6.10	1.51	1.54
1	5K	143	ARG	C-N	6.10	1.42	1.34
1	6W	32	PHE	CA-CB	6.10	1.60	1.52
1	6X	123	PRO	CA-C	6.10	1.59	1.52
1	7u	162	ARG	CZ-NH2	-6.10	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7N	90	PRO	CA-C	-6.10	1.45	1.52
1	8m	114	GLN	N-CA	-6.10	1.38	1.46
1	8E	165	VAL	CA-CB	-6.10	1.47	1.54
1	8Q	1	PRO	C-N	6.10	1.41	1.33
1	9v	62	HIS	CA-C	-6.10	1.44	1.52
1	9w	124	ILE	N-CA	-6.10	1.39	1.46
1	9J	174	ALA	N-CA	-6.10	1.38	1.46
1	9T	117	TRP	NE1-CE2	-6.10	1.30	1.37
1	9X	211	LEU	C-N	6.10	1.41	1.33
1	a0	15	ILE	C-O	-6.10	1.17	1.24
1	aa	155	GLN	N-CA	6.10	1.53	1.46
1	ay	84	HIS	N-CA	-6.10	1.36	1.46
1	aX	131	LYS	CA-C	-6.10	1.44	1.52
1	bC	76	GLU	C-N	6.10	1.41	1.33
1	bT	172	LEU	CA-CB	6.10	1.64	1.53
1	df	104	ILE	N-CA	6.10	1.53	1.46
1	dt	98	GLU	CA-C	6.10	1.59	1.53
1	dO	134	ILE	N-CA	6.10	1.53	1.46
1	ex	137	GLY	N-CA	6.10	1.53	1.45
1	eJ	230	VAL	C-N	6.10	1.41	1.33
1	fc	87	HIS	CA-CB	6.10	1.63	1.53
1	3	229	ARG	N-CA	-6.10	1.38	1.46
1	V	73	ILE	CA-C	6.10	1.60	1.52
1	gv	76	GLU	CA-CB	6.10	1.62	1.53
1	hw	94	GLY	CA-C	6.10	1.60	1.51
1	ib	105	ALA	C-N	6.10	1.42	1.33
1	ii	50	GLN	C-N	6.10	1.42	1.33
1	is	120	HIS	C-O	-6.10	1.16	1.23
1	iB	127	GLY	N-CA	6.10	1.53	1.45
1	iG	209	ALA	CA-CB	6.10	1.62	1.53
1	je	87	HIS	ND1-CE1	6.10	1.38	1.32
1	k0	122	PRO	C-N	6.10	1.41	1.33
1	kB	84	HIS	CD2-NE2	6.10	1.44	1.37
1	kW	120	HIS	ND1-CE1	6.10	1.38	1.32
1	lL	133	TRP	N-CA	6.10	1.53	1.46
1	lP	83	LEU	CA-C	-6.10	1.44	1.52
1	2c	227	LYS	CA-C	-6.10	1.44	1.52
1	2I	47	ALA	C-N	6.10	1.42	1.33
1	3c	3	VAL	CA-CB	-6.10	1.46	1.54
1	3d	159	GLU	CA-C	6.10	1.59	1.52
1	3t	19	THR	CA-C	6.10	1.60	1.52
1	4N	198	CYS	C-O	-6.10	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5W	225	GLY	C-N	-6.10	1.25	1.33
1	5Y	27	VAL	N-CA	6.10	1.54	1.46
1	7b	164	TYR	N-CA	-6.10	1.39	1.46
1	7T	31	ALA	CA-CB	6.10	1.63	1.53
1	8e	54	THR	C-N	6.10	1.42	1.33
1	8H	126	VAL	N-CA	6.10	1.54	1.46
1	am	10	MET	C-N	6.10	1.39	1.33
1	cp	90	PRO	CA-C	-6.10	1.45	1.52
1	de	181	VAL	CA-C	-6.10	1.45	1.52
1	eX	146	SER	CA-CB	6.10	1.65	1.53
1	fA	10	MET	CA-C	6.10	1.61	1.53
1	gX	197	ASP	C-N	6.09	1.43	1.33
1	h6	210	THR	N-CA	6.09	1.54	1.45
1	hD	126	VAL	C-N	6.09	1.41	1.33
1	hP	115	ILE	CA-CB	-6.09	1.46	1.54
1	iB	56	LEU	CA-CB	6.09	1.62	1.53
1	iG	39	MET	CA-CB	6.09	1.62	1.53
1	iI	152	ASP	C-N	6.09	1.40	1.33
1	iU	57	ASN	C-N	6.09	1.42	1.33
1	j0	153	ILE	N-CA	-6.09	1.38	1.46
1	j8	135	ILE	CA-CB	-6.09	1.47	1.54
1	jI	80	TRP	CA-CB	6.09	1.62	1.53
1	jM	81	ASP	N-CA	-6.09	1.38	1.46
1	jQ	127	GLY	CA-C	-6.09	1.44	1.51
1	jW	176	GLN	CA-CB	6.09	1.61	1.53
1	jY	77	ALA	N-CA	-6.09	1.39	1.46
1	23	111	LEU	CA-C	6.09	1.60	1.52
1	kV	146	SER	CA-C	-6.09	1.47	1.53
1	lb	164	TYR	CA-CB	6.09	1.62	1.53
1	lc	186	THR	CA-CB	6.09	1.62	1.53
1	ll	65	ALA	C-N	6.09	1.41	1.33
1	29	116	GLY	CA-C	6.09	1.58	1.51
1	2h	141	ILE	CA-CB	6.09	1.61	1.54
1	40	188	THR	N-CA	6.09	1.54	1.46
1	4V	47	ALA	CA-C	6.09	1.60	1.52
1	5l	120	HIS	ND1-CE1	6.09	1.38	1.32
1	5m	62	HIS	CD2-NE2	6.09	1.44	1.37
1	5E	96	MET	N-CA	-6.09	1.37	1.45
1	74	217	ALA	CA-CB	6.09	1.62	1.53
1	8r	118	MET	CA-C	-6.09	1.44	1.52
1	99	68	MET	CA-CB	6.09	1.63	1.53
1	9D	145	TYR	CA-CB	6.09	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9E	134	ILE	C-N	6.09	1.41	1.33
1	9S	143	ARG	CD-NE	6.09	1.54	1.46
1	Z	42	ALA	CA-C	6.09	1.60	1.52
1	aR	212	GLU	CA-CB	6.09	1.62	1.53
1	b9	137	GLY	CA-C	-6.09	1.45	1.52
1	17	78	ALA	C-N	6.09	1.42	1.33
1	bt	68	MET	CA-CB	6.09	1.62	1.53
1	bv	37	ILE	CA-CB	6.09	1.57	1.54
1	bB	54	THR	C-N	6.09	1.42	1.33
1	bC	45	GLU	CA-CB	6.09	1.61	1.53
1	bI	134	ILE	C-N	6.09	1.41	1.34
1	1d	131	LYS	N-CA	-6.09	1.39	1.46
1	ci	105	ALA	CA-CB	6.09	1.62	1.53
1	cl	112	GLN	CA-C	-6.09	1.45	1.52
1	cO	189	LEU	C-N	6.09	1.41	1.33
1	dL	172	LEU	CA-C	-6.09	1.43	1.52
1	eH	173	ARG	CA-C	-6.09	1.45	1.52
1	f0	143	ARG	CA-C	-6.09	1.44	1.52
1	fc	65	ALA	CA-CB	6.09	1.63	1.53
1	fm	118	MET	C-N	6.09	1.41	1.33
1	fC	150	ILE	CA-C	6.09	1.60	1.52
1	fL	136	LEU	C-N	6.09	1.42	1.33
1	fN	195	ASN	C-N	6.09	1.42	1.33
1	gM	100	ARG	N-CA	-6.09	1.38	1.45
1	hT	93	PRO	CA-CB	6.09	1.61	1.53
1	1Q	5	ASN	CA-C	6.09	1.60	1.52
1	iD	15	ILE	N-CA	6.09	1.53	1.46
1	k4	230	VAL	CA-CB	-6.09	1.47	1.54
1	kt	80	TRP	CA-CB	6.09	1.62	1.53
1	23	219	GLN	N-CA	-6.09	1.37	1.46
1	l6	123	PRO	C-O	-6.09	1.16	1.23
1	33	61	GLY	C-N	6.09	1.41	1.33
1	3n	180	GLU	CA-C	6.09	1.60	1.52
1	4B	189	LEU	C-N	6.09	1.41	1.33
1	5p	88	ALA	CA-CB	6.09	1.62	1.53
1	6v	124	ILE	N-CA	6.09	1.50	1.46
1	83	114	GLN	CA-C	6.09	1.60	1.52
1	8g	229	ARG	CA-C	6.09	1.60	1.52
1	9X	186	THR	N-CA	6.09	1.53	1.46
1	a3	220	GLY	C-N	6.09	1.42	1.33
1	ad	26	VAL	CA-CB	6.09	1.61	1.54
1	11	169	TYR	CA-C	-6.09	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aM	70	LYS	N-CA	-6.09	1.39	1.46
1	aZ	87	HIS	CG-ND1	-6.09	1.31	1.38
1	19	54	THR	C-N	6.09	1.41	1.33
1	bM	175	GLU	CA-C	6.09	1.60	1.52
1	cK	10	MET	N-CA	-6.09	1.38	1.46
1	eb	144	MET	CA-CB	6.09	1.62	1.53
1	fB	75	GLU	CA-CB	6.09	1.63	1.53
1	C	12	HIS	ND1-CE1	6.09	1.38	1.32
1	P	84	HIS	CD2-NE2	6.09	1.44	1.37
1	gk	147	PRO	N-CA	6.09	1.54	1.47
1	gJ	142	VAL	CA-CB	-6.09	1.46	1.54
1	gW	146	SER	CA-C	6.09	1.60	1.52
1	gY	116	GLY	N-CA	6.09	1.53	1.45
1	hy	142	VAL	C-N	6.09	1.42	1.33
1	hS	74	ASN	CA-CB	6.09	1.62	1.53
1	i9	69	LEU	CA-C	-6.09	1.45	1.52
1	ig	43	LEU	CA-CB	6.09	1.62	1.53
1	ix	43	LEU	C-O	-6.09	1.17	1.24
1	iA	93	PRO	N-CA	-6.09	1.40	1.47
1	iP	132	ARG	CD-NE	6.09	1.54	1.46
1	j9	66	MET	C-N	6.09	1.42	1.33
1	jF	84	HIS	CE1-NE2	6.09	1.38	1.32
1	jG	221	VAL	CA-CB	6.09	1.62	1.54
1	k3	121	ASN	CA-C	-6.09	1.47	1.52
1	kW	35	GLU	N-CA	6.09	1.54	1.46
1	lp	165	VAL	C-N	-6.09	1.25	1.34
1	2p	162	ARG	CD-NE	6.09	1.54	1.46
1	2D	87	HIS	CG-CD2	6.09	1.42	1.35
1	3i	11	VAL	N-CA	-6.09	1.38	1.46
1	3v	71	GLU	N-CA	6.09	1.53	1.46
1	5z	20	LEU	C-N	6.09	1.42	1.33
1	5A	164	TYR	C-N	6.09	1.41	1.33
1	5G	104	ILE	CA-C	6.09	1.61	1.52
1	5W	12	HIS	CG-ND1	6.09	1.45	1.38
1	6C	155	GLN	CA-C	-6.09	1.45	1.52
1	7e	50	GLN	N-CA	6.09	1.53	1.46
1	84	85	PRO	C-N	6.09	1.41	1.33
1	8a	14	ALA	CA-C	-6.09	1.44	1.53
1	8H	72	THR	C-N	6.09	1.41	1.33
1	9w	26	VAL	CA-CB	6.09	1.62	1.54
1	9D	157	PRO	N-CA	-6.09	1.39	1.47
1	a1	52	LEU	CA-C	-6.09	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ah	37	ILE	CA-CB	-6.09	1.51	1.54
1	aQ	23	TRP	CA-C	6.09	1.60	1.52
1	b0	78	ALA	CA-C	-6.09	1.45	1.52
1	ci	1	PRO	N-CD	6.09	1.56	1.47
1	dh	80	TRP	C-N	6.09	1.42	1.33
1	dt	213	GLU	CA-C	6.09	1.60	1.52
1	1l	45	GLU	CA-C	-6.09	1.44	1.52
1	dB	107	THR	CA-CB	6.09	1.63	1.53
1	dJ	1	PRO	C-N	6.09	1.41	1.33
1	dO	6	LEU	CA-C	6.09	1.60	1.53
1	dW	199	LYS	CA-C	-6.09	1.44	1.52
1	el	101	GLY	C-N	6.09	1.43	1.33
1	ev	154	ARG	CD-NE	6.09	1.54	1.46
1	fl	9	GLN	CA-CB	6.09	1.60	1.53
1	fW	66	MET	C-N	6.09	1.42	1.34
1	1B	62	HIS	CA-C	-6.09	1.44	1.52
1	q	86	VAL	CA-C	-6.09	1.46	1.52
1	E	2	ILE	CA-CB	-6.09	1.46	1.54
1	E	92	GLU	CA-C	-6.09	1.45	1.52
1	N	5	ASN	N-CA	6.09	1.54	1.46
1	hs	172	LEU	N-CA	-6.09	1.38	1.46
1	hu	129	ILE	C-O	-6.09	1.17	1.24
1	hJ	46	GLY	CA-C	-6.09	1.43	1.51
1	i1	143	ARG	CA-C	6.09	1.60	1.52
1	i8	11	VAL	CA-C	-6.09	1.45	1.52
1	ih	228	ALA	N-CA	-6.09	1.38	1.46
1	iL	203	LYS	C-O	6.09	1.31	1.24
1	iY	72	THR	N-CA	6.09	1.53	1.46
1	jk	195	ASN	CA-C	6.09	1.61	1.53
1	1V	189	LEU	C-N	6.09	1.42	1.33
1	1Y	109	SER	N-CA	6.09	1.53	1.46
1	jQ	52	LEU	CA-C	-6.09	1.45	1.52
1	lq	100	ARG	CD-NE	6.09	1.54	1.46
1	lu	109	SER	C-N	6.09	1.41	1.33
1	3M	161	PHE	N-CA	-6.09	1.39	1.46
1	4t	124	ILE	CA-C	-6.09	1.47	1.52
1	4I	87	HIS	CG-ND1	-6.09	1.31	1.38
1	5o	11	VAL	CA-C	-6.09	1.46	1.53
1	5I	79	GLU	N-CA	-6.09	1.39	1.46
1	6W	154	ARG	CA-C	-6.09	1.45	1.52
1	7u	217	ALA	C-N	6.09	1.42	1.33
1	7T	152	ASP	CA-CB	6.09	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8C	107	THR	CA-C	6.09	1.60	1.52
1	8I	169	TYR	CA-CB	6.09	1.62	1.53
1	8O	84	HIS	CA-CB	6.09	1.63	1.52
1	9l	132	ARG	CD-NE	6.09	1.54	1.46
1	9q	132	ARG	CA-C	6.09	1.60	1.52
1	9F	85	PRO	C-N	-6.09	1.25	1.33
1	a1	23	TRP	C-N	6.09	1.40	1.34
1	a7	174	ALA	CA-C	6.09	1.60	1.52
1	al	101	GLY	CA-C	-6.09	1.44	1.52
1	aS	172	LEU	CA-CB	6.09	1.62	1.53
1	aY	117	TRP	C-N	6.09	1.42	1.33
1	b2	152	ASP	CA-CB	6.09	1.62	1.53
1	18	163	ASP	CA-CB	6.09	1.64	1.53
1	bS	95	GLN	CA-CB	6.09	1.63	1.53
1	1b	168	PHE	CA-C	-6.09	1.45	1.52
1	cS	74	ASN	C-N	6.09	1.42	1.33
1	cV	120	HIS	ND1-CE1	6.09	1.38	1.32
1	cY	43	LEU	C-O	-6.09	1.17	1.24
1	d0	216	THR	C-N	6.09	1.42	1.33
1	d8	137	GLY	N-CA	-6.09	1.38	1.45
1	df	226	HIS	N-CA	6.09	1.54	1.46
1	1l	97	ARG	CD-NE	6.09	1.54	1.46
1	e9	26	VAL	C-N	6.09	1.41	1.33
1	ea	157	PRO	CA-CB	6.09	1.62	1.53
1	ew	106	GLY	N-CA	6.09	1.53	1.45
1	ew	199	LYS	C-N	6.09	1.42	1.33
1	eC	77	ALA	C-O	-6.09	1.17	1.24
1	eN	185	MET	N-CA	-6.09	1.38	1.46
1	eY	183	ASN	C-N	-6.09	1.25	1.33
1	0	78	ALA	CA-CB	6.09	1.63	1.53
1	d	229	ARG	CA-C	6.09	1.60	1.52
1	K	81	ASP	CA-CB	6.09	1.62	1.53
1	gc	49	PRO	C-N	6.09	1.42	1.33
1	go	149	SER	C-N	6.09	1.40	1.34
1	hN	117	TRP	NE1-CE2	-6.09	1.30	1.37
1	ke	86	VAL	C-N	6.09	1.41	1.33
1	l3	82	ARG	CD-NE	6.09	1.54	1.46
1	34	13	GLN	CA-CB	6.09	1.61	1.53
1	34	118	MET	CG-SD	6.09	1.96	1.80
1	5C	117	TRP	C-O	-6.09	1.17	1.24
1	6n	20	LEU	C-N	6.09	1.41	1.33
1	71	75	GLU	N-CA	6.09	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7F	57	ASN	CA-CB	6.09	1.64	1.53
1	9G	85	PRO	CA-C	-6.09	1.45	1.52
1	9P	9	GLN	CA-CB	6.09	1.63	1.53
1	aG	103	ASP	CA-CB	6.09	1.62	1.53
1	aS	26	VAL	C-O	-6.09	1.17	1.24
1	c4	138	LEU	CA-C	6.09	1.60	1.52
1	1e	35	GLU	C-N	6.09	1.41	1.33
1	ct	162	ARG	C-N	-6.09	1.25	1.34
1	cv	79	GLU	CA-CB	6.09	1.63	1.53
1	cD	168	PHE	CB-CG	6.09	1.64	1.50
1	cD	227	LYS	CA-C	6.09	1.60	1.52
1	d1	7	GLN	CA-CB	6.09	1.66	1.53
1	es	97	ARG	CZ-NH2	-6.09	1.25	1.33
1	f4	222	GLY	N-CA	6.09	1.54	1.45
1	d	146	SER	CA-C	6.09	1.59	1.52
1	R	186	THR	C-N	6.09	1.42	1.33
1	gM	193	ASN	CA-CB	6.09	1.63	1.53
1	1G	129	ILE	C-O	-6.09	1.17	1.24
1	hu	212	GLU	CA-CB	6.09	1.62	1.53
1	hW	18	ARG	CD-NE	6.09	1.54	1.46
1	j1	60	GLY	N-CA	6.09	1.54	1.45
1	j7	162	ARG	CD-NE	6.09	1.54	1.46
1	1Y	8	GLY	CA-C	6.09	1.59	1.51
1	kz	116	GLY	CA-C	-6.09	1.45	1.52
1	kE	158	LYS	CA-C	6.09	1.60	1.52
1	26	52	LEU	CA-C	6.09	1.60	1.52
1	lz	55	MET	CA-CB	6.09	1.62	1.53
1	2d	100	ARG	CD-NE	6.09	1.54	1.46
1	2q	80	TRP	C-O	-6.09	1.16	1.24
1	2w	112	GLN	CA-CB	6.09	1.62	1.53
1	2M	26	VAL	CA-CB	6.09	1.62	1.54
1	2R	197	ASP	N-CA	6.09	1.53	1.46
1	3a	34	PRO	CA-CB	6.09	1.62	1.53
1	3n	87	HIS	CD2-NE2	6.09	1.44	1.37
1	3L	167	ARG	CZ-NH1	-6.09	1.24	1.32
1	3X	189	LEU	C-N	6.09	1.41	1.33
1	4T	154	ARG	N-CA	6.09	1.53	1.45
1	5D	163	ASP	N-CA	-6.09	1.39	1.46
1	5H	40	PHE	CA-C	6.09	1.60	1.52
1	6f	1	PRO	N-CD	6.09	1.56	1.47
1	7j	224	PRO	CA-C	6.09	1.61	1.52
1	7n	19	THR	C-O	-6.09	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	80	68	MET	CA-C	6.09	1.60	1.52
1	84	188	THR	N-CA	6.09	1.54	1.46
1	8P	141	ILE	C-N	6.09	1.41	1.33
1	9u	118	MET	N-CA	6.09	1.53	1.46
1	9J	183	ASN	CA-CB	6.09	1.63	1.53
1	a9	82	ARG	CA-CB	6.09	1.62	1.53
1	at	92	GLU	CA-C	6.09	1.60	1.52
1	aG	91	ILE	CA-C	-6.09	1.45	1.52
1	aN	197	ASP	CA-C	-6.09	1.45	1.52
1	b4	168	PHE	CA-C	-6.09	1.45	1.52
1	18	204	ALA	N-CA	-6.09	1.38	1.46
1	bS	182	LYS	CA-C	6.09	1.60	1.52
1	cj	61	GLY	C-O	-6.09	1.18	1.23
1	cN	123	PRO	CA-C	-6.09	1.45	1.52
1	eb	93	PRO	CA-C	6.09	1.59	1.52
1	eH	84	HIS	C-N	6.09	1.41	1.33
1	eS	87	HIS	ND1-CE1	6.09	1.38	1.32
1	fL	152	ASP	N-CA	-6.09	1.39	1.46
1	9	121	ASN	CA-CB	6.09	1.64	1.53
1	gS	175	GLU	CA-CB	6.08	1.62	1.53
1	hk	227	LYS	CA-C	6.08	1.60	1.52
1	hK	197	ASP	N-CA	-6.08	1.38	1.46
1	1M	102	SER	C-O	-6.08	1.16	1.24
1	iV	149	SER	CA-CB	6.08	1.62	1.53
1	jD	85	PRO	CA-C	-6.08	1.44	1.52
1	l4	15	ILE	N-CA	6.08	1.53	1.46
1	l8	212	GLU	CA-C	6.08	1.60	1.52
1	ls	226	HIS	ND1-CE1	6.08	1.38	1.32
1	lw	59	VAL	N-CA	-6.08	1.39	1.46
1	3H	136	LEU	N-CA	6.08	1.53	1.46
1	4R	12	HIS	CB-CG	6.08	1.58	1.50
1	4T	109	SER	N-CA	6.08	1.52	1.45
1	6k	131	LYS	CA-C	6.08	1.60	1.52
1	6B	64	ALA	N-CA	-6.08	1.39	1.46
1	7K	12	HIS	CA-CB	6.08	1.61	1.53
1	8O	150	ILE	C-N	6.08	1.42	1.33
1	9K	209	ALA	C-N	6.08	1.42	1.33
1	a5	73	ILE	CA-C	-6.08	1.45	1.52
1	as	224	PRO	N-CD	-6.08	1.39	1.47
1	aH	80	TRP	C-O	-6.08	1.17	1.24
1	b5	172	LEU	CA-C	6.08	1.60	1.52
1	bJ	10	MET	CA-C	-6.08	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cw	229	ARG	CA-C	-6.08	1.45	1.52
1	eK	58	THR	CB-OG1	-6.08	1.34	1.43
1	1x	143	ARG	C-N	6.08	1.41	1.33
1	1x	207	PRO	N-CD	-6.08	1.39	1.47
1	g5	219	GLN	C-N	6.08	1.41	1.33
1	o	230	VAL	CA-CB	6.08	1.61	1.53
1	gA	15	ILE	CA-CB	-6.08	1.46	1.54
1	1E	25	LYS	C-N	6.08	1.41	1.33
1	gL	189	LEU	C-N	6.08	1.41	1.33
1	hU	167	ARG	CA-C	6.08	1.60	1.52
1	hW	37	ILE	CA-CB	6.08	1.57	1.54
1	ic	145	TYR	CA-C	6.08	1.60	1.52
1	1P	175	GLU	N-CA	-6.08	1.38	1.46
1	ix	14	ALA	CA-CB	6.08	1.62	1.53
1	ix	222	GLY	N-CA	6.08	1.53	1.45
1	jD	113	GLU	N-CA	6.08	1.53	1.46
1	jP	168	PHE	C-N	6.08	1.42	1.33
1	20	9	GLN	N-CA	-6.08	1.39	1.46
1	ki	185	MET	N-CA	6.08	1.53	1.46
1	kU	132	ARG	CA-C	6.08	1.60	1.52
1	ln	18	ARG	CA-CB	6.08	1.62	1.53
1	ln	93	PRO	CA-C	6.08	1.61	1.52
1	lr	54	THR	C-N	6.08	1.41	1.33
1	lw	20	LEU	C-N	6.08	1.41	1.33
1	lC	142	VAL	CA-CB	-6.08	1.46	1.54
1	2E	153	ILE	CA-C	-6.08	1.45	1.52
1	2Q	197	ASP	CA-C	6.08	1.60	1.52
1	3n	2	ILE	CA-CB	-6.08	1.47	1.54
1	41	20	LEU	C-O	-6.08	1.17	1.24
1	4e	119	THR	CA-C	6.08	1.60	1.52
1	4L	137	GLY	CA-C	-6.08	1.45	1.51
1	4O	37	ILE	CA-C	6.08	1.59	1.52
1	4Q	36	VAL	C-N	6.08	1.40	1.33
1	6i	157	PRO	C-O	-6.08	1.17	1.24
1	7J	154	ARG	CD-NE	6.08	1.54	1.46
1	7Q	221	VAL	N-CA	6.08	1.53	1.46
1	7T	67	GLN	N-CA	-6.08	1.38	1.46
1	81	207	PRO	CA-C	-6.08	1.42	1.52
1	8u	61	GLY	CA-C	-6.08	1.44	1.52
1	9u	143	ARG	CD-NE	6.08	1.54	1.46
1	9z	148	THR	CA-C	6.08	1.60	1.52
1	9U	135	ILE	CA-CB	6.08	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a2	101	GLY	CA-C	6.08	1.58	1.52
1	aJ	87	HIS	CG-CD2	6.08	1.42	1.35
1	aK	33	SER	N-CA	-6.08	1.40	1.45
1	15	188	THR	CA-C	-6.08	1.44	1.52
1	aZ	204	ALA	CA-C	-6.08	1.45	1.52
1	bf	222	GLY	CA-C	-6.08	1.43	1.52
1	17	44	SER	CA-C	6.08	1.60	1.52
1	bm	66	MET	N-CA	-6.08	1.39	1.46
1	bp	115	ILE	CA-C	-6.08	1.45	1.52
1	bB	12	HIS	C-O	6.08	1.31	1.23
1	bH	136	LEU	CA-C	6.08	1.60	1.52
1	cN	76	GLU	CA-CB	6.08	1.62	1.53
1	d3	129	ILE	CA-C	6.08	1.60	1.52
1	d3	167	ARG	CA-C	6.08	1.61	1.52
1	er	73	ILE	N-CA	6.08	1.53	1.46
1	eI	133	TRP	NE1-CE2	-6.08	1.30	1.37
1	1t	28	GLU	CA-C	-6.08	1.45	1.52
1	fx	72	THR	C-N	6.08	1.41	1.33
1	fz	118	MET	CA-C	-6.08	1.45	1.52
1	fB	29	GLU	CA-C	6.08	1.60	1.52
1	fV	21	ASN	N-CA	6.08	1.53	1.46
1	R	82	ARG	CA-CB	6.08	1.61	1.53
1	gf	153	ILE	CA-C	6.08	1.59	1.52
1	gp	92	GLU	CA-C	6.08	1.60	1.53
1	gz	161	PHE	CA-C	6.08	1.60	1.53
1	gV	205	LEU	CA-CB	6.08	1.62	1.54
1	h4	87	HIS	N-CA	6.08	1.53	1.46
1	hr	94	GLY	C-N	6.08	1.41	1.33
1	in	87	HIS	CB-CG	6.08	1.58	1.50
1	1Q	179	GLN	N-CA	-6.08	1.38	1.46
1	iD	128	GLU	CA-CB	6.08	1.62	1.53
1	iF	132	ARG	CD-NE	6.08	1.54	1.46
1	j6	219	GLN	C-N	6.08	1.42	1.33
1	jf	162	ARG	C-O	-6.08	1.17	1.24
1	ji	203	LYS	C-N	6.08	1.42	1.33
1	jK	145	TYR	N-CA	-6.08	1.37	1.46
1	k2	148	THR	CA-C	6.08	1.59	1.52
1	k3	64	ALA	C-N	6.08	1.42	1.33
1	k9	133	TRP	CA-C	6.08	1.60	1.52
1	kg	218	CYS	C-N	6.08	1.42	1.33
1	ki	139	ASN	CA-CB	6.08	1.62	1.53
1	kt	112	GLN	CA-CB	6.08	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ky	109	SER	N-CA	-6.08	1.38	1.45
1	kY	229	ARG	N-CA	-6.08	1.38	1.46
1	26	33	SER	C-O	6.08	1.31	1.23
1	27	213	GLU	CA-C	-6.08	1.45	1.52
1	lm	230	VAL	CA-CB	6.08	1.61	1.54
1	lt	2	ILE	N-CA	-6.08	1.38	1.46
1	lC	120	HIS	ND1-CE1	6.08	1.38	1.32
1	lJ	180	GLU	CA-CB	6.08	1.62	1.53
1	lK	73	ILE	CA-CB	-6.08	1.46	1.54
1	2h	87	HIS	N-CA	-6.08	1.38	1.46
1	2i	227	LYS	N-CA	6.08	1.53	1.45
1	2A	48	THR	CA-C	6.08	1.59	1.52
1	2G	6	LEU	CA-C	6.08	1.60	1.52
1	33	140	LYS	C-N	6.08	1.41	1.33
1	4b	183	ASN	CA-CB	6.08	1.62	1.53
1	4F	219	GLN	C-N	6.08	1.41	1.33
1	55	11	VAL	CA-C	6.08	1.60	1.52
1	63	167	ARG	C-N	6.08	1.41	1.33
1	66	3	VAL	CA-CB	-6.08	1.48	1.54
1	6h	39	MET	C-N	6.08	1.42	1.33
1	6A	62	HIS	CG-CD2	6.08	1.42	1.35
1	8b	200	THR	N-CA	6.08	1.53	1.46
1	8m	214	MET	CA-C	6.08	1.60	1.52
1	8Q	155	GLN	CA-C	-6.08	1.45	1.52
1	8U	164	TYR	CA-C	6.08	1.60	1.52
1	ao	59	VAL	CA-CB	-6.08	1.47	1.54
1	at	123	PRO	CA-CB	6.08	1.62	1.54
1	bA	217	ALA	CA-C	-6.08	1.44	1.53
1	cU	28	GLU	CA-CB	6.08	1.62	1.53
1	do	16	SER	N-CA	6.08	1.54	1.45
1	dW	226	HIS	ND1-CE1	6.08	1.38	1.32
1	e1	149	SER	CA-C	-6.08	1.45	1.52
1	eo	81	ASP	C-N	6.08	1.42	1.33
1	eM	176	GLN	N-CA	-6.08	1.37	1.46
1	fa	184	TRP	CA-CB	6.08	1.63	1.53
1	y	88	ALA	CA-C	-6.08	1.45	1.52
1	J	177	ALA	N-CA	-6.08	1.38	1.46
1	h2	161	PHE	N-CA	6.08	1.53	1.46
1	hh	40	PHE	CA-CB	-6.08	1.43	1.53
1	id	54	THR	C-N	6.08	1.41	1.33
1	ix	145	TYR	CA-CB	6.08	1.62	1.53
1	jv	87	HIS	ND1-CE1	6.08	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jY	95	GLN	CA-C	6.08	1.60	1.52
1	jY	142	VAL	CA-CB	6.08	1.62	1.54
1	jZ	20	LEU	CA-CB	6.08	1.62	1.53
1	ke	92	GLU	CA-CB	6.08	1.63	1.53
1	23	218	CYS	CA-C	-6.08	1.44	1.52
1	l5	224	PRO	C-N	6.08	1.38	1.33
1	2B	72	THR	C-O	-6.08	1.17	1.24
1	33	166	ASP	N-CA	-6.08	1.39	1.46
1	35	154	ARG	CZ-NH2	-6.08	1.25	1.33
1	3F	110	THR	N-CA	6.08	1.53	1.45
1	3G	169	TYR	CA-C	6.08	1.60	1.52
1	3K	222	GLY	N-CA	6.08	1.53	1.45
1	3Y	79	GLU	CA-C	-6.08	1.45	1.52
1	4E	67	GLN	C-N	6.08	1.42	1.33
1	4R	75	GLU	C-N	6.08	1.42	1.33
1	50	38	PRO	N-CA	6.08	1.55	1.47
1	5j	52	LEU	N-CA	-6.08	1.39	1.46
1	5v	84	HIS	N-CA	-6.08	1.40	1.46
1	5S	43	LEU	CA-CB	6.08	1.62	1.53
1	5T	167	ARG	CA-CB	6.08	1.62	1.53
1	6c	37	ILE	CA-CB	6.08	1.62	1.54
1	6i	131	LYS	CA-C	-6.08	1.45	1.52
1	6R	150	ILE	C-N	6.08	1.42	1.33
1	7b	113	GLU	CA-C	-6.08	1.45	1.52
1	7b	169	TYR	C-N	6.08	1.42	1.33
1	7K	205	LEU	CA-CB	6.08	1.64	1.53
1	7Q	219	GLN	CA-CB	6.08	1.64	1.53
1	7X	140	LYS	CA-C	6.08	1.60	1.52
1	b1	112	GLN	CA-C	6.08	1.60	1.52
1	b1	140	LYS	C-O	-6.08	1.17	1.24
1	cm	35	GLU	CA-CB	6.08	1.64	1.53
1	dl	132	ARG	C-O	-6.08	1.17	1.24
1	fR	62	HIS	CB-CG	6.08	1.58	1.50
1	g0	191	VAL	C-N	6.08	1.43	1.33
1	x	1	PRO	N-CA	6.08	1.56	1.47
1	gd	91	ILE	C-N	6.08	1.40	1.33
1	gu	62	HIS	CE1-NE2	6.08	1.38	1.32
1	gw	79	GLU	N-CA	6.08	1.53	1.46
1	gz	29	GLU	CA-CB	6.08	1.62	1.53
1	gG	112	GLN	CA-CB	6.08	1.62	1.53
1	gM	63	GLN	CA-CB	6.08	1.62	1.53
1	gQ	37	ILE	CA-C	6.08	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i8	176	GLN	CA-CB	6.08	1.61	1.53
1	ih	229	ARG	CA-CB	6.08	1.65	1.53
1	iu	1	PRO	N-CD	6.08	1.56	1.47
1	iG	136	LEU	CA-CB	6.08	1.62	1.53
1	jx	111	LEU	N-CA	-6.08	1.38	1.46
1	jH	208	ALA	N-CA	-6.08	1.38	1.46
1	jN	115	ILE	N-CA	6.08	1.54	1.46
1	1Y	122	PRO	C-N	6.08	1.40	1.33
1	k0	52	LEU	CA-C	6.08	1.60	1.52
1	k5	10	MET	C-N	6.08	1.42	1.33
1	kB	145	TYR	C-N	6.08	1.43	1.33
1	kX	209	ALA	CA-CB	6.08	1.63	1.53
1	28	69	LEU	N-CA	-6.08	1.38	1.46
1	3j	167	ARG	NE-CZ	6.08	1.39	1.33
1	3n	12	HIS	CG-ND1	6.08	1.45	1.38
1	48	26	VAL	CA-CB	6.08	1.61	1.54
1	4D	28	GLU	CA-CB	6.08	1.62	1.53
1	4U	136	LEU	CA-CB	6.08	1.62	1.53
1	5m	223	GLY	CA-C	6.08	1.60	1.51
1	5z	104	ILE	CA-CB	6.08	1.61	1.54
1	5F	199	LYS	CA-C	6.08	1.60	1.52
1	6p	124	ILE	N-CA	-6.08	1.41	1.46
1	6u	153	ILE	CA-CB	-6.08	1.46	1.54
1	6v	74	ASN	CA-CB	6.08	1.62	1.53
1	88	87	HIS	CA-CB	6.08	1.63	1.54
1	8s	183	ASN	N-CA	-6.08	1.39	1.46
1	8z	170	LYS	N-CA	6.08	1.53	1.46
1	8F	12	HIS	CB-CG	6.08	1.58	1.50
1	8G	143	ARG	CZ-NH1	-6.08	1.24	1.32
1	8J	222	GLY	C-O	6.08	1.29	1.23
1	90	180	GLU	CA-C	6.08	1.60	1.52
1	9d	68	MET	N-CA	-6.08	1.38	1.46
1	9q	42	ALA	N-CA	6.08	1.53	1.46
1	a5	42	ALA	CA-C	6.08	1.60	1.52
1	a7	123	PRO	C-N	6.08	1.39	1.33
1	a8	85	PRO	C-N	6.08	1.41	1.33
1	ae	218	CYS	C-N	6.08	1.42	1.33
1	aH	60	GLY	N-CA	6.08	1.53	1.45
1	aI	154	ARG	CD-NE	6.08	1.54	1.46
1	aU	154	ARG	CD-NE	6.08	1.54	1.46
1	b6	87	HIS	C-N	6.08	1.41	1.33
1	bC	100	ARG	CD-NE	6.08	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bE	151	LEU	C-N	6.08	1.41	1.33
1	bL	98	GLU	CA-C	6.08	1.60	1.52
1	bP	120	HIS	CE1-NE2	-6.08	1.26	1.32
1	cV	212	GLU	CA-CB	6.08	1.62	1.53
1	dR	56	LEU	C-N	6.08	1.42	1.33
1	1o	222	GLY	CA-C	-6.08	1.44	1.52
1	e3	62	HIS	CA-C	6.08	1.60	1.53
1	1s	58	THR	C-N	6.08	1.41	1.33
1	eN	93	PRO	C-N	6.08	1.40	1.33
1	1u	110	THR	N-CA	-6.08	1.38	1.46
1	f0	124	ILE	CB-CG1	6.08	1.65	1.53
1	fo	50	GLN	CA-C	6.08	1.60	1.52
1	fC	134	ILE	CA-C	6.08	1.60	1.52
1	g4	108	THR	CA-CB	-6.08	1.44	1.54
1	b	91	ILE	CA-CB	6.08	1.61	1.54
1	c	119	THR	C-N	6.08	1.41	1.33
1	1	127	GLY	CA-C	6.08	1.60	1.51
1	F	108	THR	CA-C	6.08	1.60	1.52
1	W	146	SER	CA-CB	6.08	1.61	1.53
1	g9	11	VAL	CA-CB	-6.08	1.46	1.53
1	hk	197	ASP	CA-CB	6.08	1.62	1.53
1	1K	66	MET	N-CA	-6.08	1.38	1.46
1	hY	78	ALA	C-N	6.08	1.42	1.34
1	iZ	160	PRO	CA-C	6.08	1.59	1.52
1	j6	139	ASN	CA-CB	6.08	1.62	1.53
1	jy	12	HIS	ND1-CE1	6.08	1.38	1.32
1	l5	205	LEU	C-N	6.08	1.42	1.33
1	lm	179	GLN	C-N	6.08	1.42	1.34
1	lI	14	ALA	N-CA	6.08	1.52	1.45
1	2c	51	ASP	CA-CB	6.08	1.62	1.53
1	2U	180	GLU	C-N	6.08	1.41	1.33
1	4x	123	PRO	C-N	6.08	1.40	1.33
1	5E	56	LEU	CA-CB	6.08	1.62	1.53
1	61	150	ILE	N-CA	-6.08	1.39	1.46
1	6t	98	GLU	CA-CB	6.08	1.62	1.53
1	6M	188	THR	CA-C	-6.08	1.46	1.52
1	7q	144	MET	CA-C	6.08	1.58	1.52
1	7K	6	LEU	CA-C	6.08	1.60	1.52
1	7Z	57	ASN	CA-C	6.08	1.60	1.52
1	8i	41	SER	CA-CB	6.08	1.62	1.53
1	8E	138	LEU	CA-CB	6.08	1.62	1.53
1	9E	131	LYS	CA-C	6.08	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9U	208	ALA	N-CA	-6.08	1.38	1.46
1	af	125	PRO	CA-C	-6.08	1.47	1.52
1	aX	186	THR	C-O	-6.08	1.17	1.24
1	br	141	ILE	N-CA	6.08	1.53	1.46
1	cy	44	SER	CA-CB	6.08	1.62	1.53
1	do	153	ILE	CA-C	6.08	1.59	1.52
1	dz	99	PRO	CA-CB	-6.08	1.47	1.54
1	eu	184	TRP	C-N	6.08	1.41	1.33
1	g8	73	ILE	CB-CG1	6.08	1.65	1.53
1	gL	208	ALA	C-N	6.08	1.41	1.33
1	1K	84	HIS	CE1-NE2	-6.08	1.26	1.32
1	i0	14	ALA	N-CA	6.08	1.54	1.46
1	iR	162	ARG	N-CA	6.08	1.53	1.46
1	jv	95	GLN	N-CA	-6.08	1.38	1.46
1	jJ	9	GLN	C-N	6.08	1.42	1.33
1	jK	102	SER	C-N	6.08	1.42	1.33
1	jV	66	MET	N-CA	-6.08	1.39	1.46
1	kQ	83	LEU	CA-CB	6.08	1.62	1.53
1	lA	13	GLN	CA-CB	6.08	1.65	1.53
1	lI	165	VAL	N-CA	6.08	1.53	1.46
1	2a	33	SER	CA-C	-6.08	1.46	1.52
1	2f	10	MET	CA-CB	6.08	1.63	1.53
1	2B	7	GLN	C-N	6.08	1.42	1.33
1	2Y	64	ALA	N-CA	-6.08	1.38	1.46
1	3a	225	GLY	C-N	6.08	1.42	1.33
1	3i	90	PRO	CA-C	6.08	1.59	1.52
1	3m	33	SER	C-N	6.08	1.40	1.34
1	3m	222	GLY	N-CA	6.08	1.54	1.45
1	3r	27	VAL	C-N	6.08	1.41	1.33
1	3Z	99	PRO	N-CD	-6.08	1.39	1.47
1	4h	100	ARG	CA-C	6.08	1.61	1.53
1	4M	217	ALA	CA-C	6.08	1.60	1.52
1	4X	157	PRO	CA-C	-6.08	1.42	1.52
1	5a	100	ARG	CA-C	-6.08	1.44	1.53
1	5h	139	ASN	N-CA	-6.08	1.38	1.46
1	6b	70	LYS	C-N	6.08	1.41	1.33
1	6v	155	GLN	CA-CB	6.08	1.63	1.53
1	6P	211	LEU	C-N	6.08	1.41	1.33
1	7f	13	GLN	CA-C	-6.08	1.45	1.52
1	7g	170	LYS	N-CA	-6.08	1.39	1.46
1	7D	131	LYS	CA-C	6.08	1.60	1.52
1	7O	58	THR	CA-CB	-6.08	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8i	6	LEU	C-N	6.08	1.42	1.33
1	96	113	GLU	N-CA	6.08	1.53	1.46
1	97	166	ASP	CA-CB	6.08	1.62	1.53
1	9F	161	PHE	C-N	6.08	1.41	1.33
1	9X	44	SER	C-N	6.08	1.41	1.33
1	a3	13	GLN	CA-CB	6.08	1.64	1.53
1	ah	124	ILE	N-CA	6.08	1.52	1.46
1	ar	115	ILE	C-N	6.08	1.42	1.33
1	aV	208	ALA	N-CA	-6.08	1.38	1.46
1	b0	20	LEU	C-N	6.08	1.41	1.33
1	b1	116	GLY	CA-C	-6.08	1.44	1.51
1	b6	132	ARG	CD-NE	6.08	1.54	1.46
1	bz	25	LYS	N-CA	-6.08	1.39	1.46
1	cg	55	MET	CA-CB	6.08	1.62	1.53
1	d8	117	TRP	NE1-CE2	6.08	1.44	1.37
1	dv	165	VAL	CA-C	6.08	1.60	1.52
1	dJ	165	VAL	CA-CB	6.08	1.62	1.54
1	dM	145	TYR	C-N	6.08	1.41	1.33
1	dZ	162	ARG	CA-CB	6.08	1.62	1.53
1	eB	90	PRO	N-CA	-6.08	1.39	1.47
1	eX	181	VAL	N-CA	-6.08	1.38	1.46
1	eZ	99	PRO	N-CD	-6.08	1.39	1.47
1	fg	123	PRO	C-N	6.08	1.38	1.33
1	1B	34	PRO	C-O	-6.08	1.16	1.24
1	1	17	PRO	C-O	-6.08	1.16	1.24
1	u	87	HIS	CG-CD2	6.08	1.42	1.35
1	v	203	LYS	CA-C	-6.08	1.44	1.52
1	G	141	ILE	CA-C	6.08	1.60	1.52
1	gd	206	GLY	CA-C	6.07	1.60	1.51
1	gs	53	ASN	C-O	-6.07	1.17	1.24
1	gF	203	LYS	CA-CB	6.07	1.62	1.53
1	gY	51	ASP	CA-CB	6.07	1.62	1.53
1	hh	173	ARG	CA-C	6.07	1.61	1.52
1	hB	226	HIS	ND1-CE1	6.07	1.38	1.32
1	hF	37	ILE	N-CA	6.07	1.54	1.46
1	hM	114	GLN	CA-CB	6.07	1.62	1.53
1	il	15	ILE	CB-CG1	6.07	1.65	1.53
1	ir	112	GLN	C-N	6.07	1.42	1.33
1	iG	205	LEU	CA-C	-6.07	1.44	1.52
1	iO	100	ARG	CD-NE	6.07	1.54	1.46
1	jf	206	GLY	CA-C	6.07	1.60	1.51
1	jA	101	GLY	CA-C	6.07	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jP	95	GLN	C-N	6.07	1.42	1.33
1	jR	88	ALA	C-N	6.07	1.42	1.33
1	kk	57	ASN	CA-CB	6.07	1.62	1.53
1	ku	85	PRO	C-N	-6.07	1.27	1.33
1	kv	114	GLN	C-N	6.07	1.41	1.33
1	kD	98	GLU	C-N	6.07	1.40	1.33
1	lh	100	ARG	CA-CB	6.07	1.63	1.53
1	ll	12	HIS	ND1-CE1	6.07	1.38	1.32
1	lG	84	HIS	CB-CG	-6.07	1.41	1.50
1	lH	16	SER	CA-C	6.07	1.60	1.52
1	2G	200	THR	CA-CB	6.07	1.63	1.53
1	4c	87	HIS	CE1-NE2	-6.07	1.26	1.32
1	4N	38	PRO	C-N	6.07	1.41	1.33
1	6A	84	HIS	ND1-CE1	6.07	1.38	1.32
1	6K	69	LEU	CA-CB	6.07	1.62	1.53
1	6S	53	ASN	CA-CB	6.07	1.62	1.53
1	6T	197	ASP	CA-C	6.07	1.60	1.52
1	76	76	GLU	N-CA	-6.07	1.39	1.46
1	7o	190	LEU	CA-CB	6.07	1.62	1.53
1	7R	52	LEU	CA-C	6.07	1.60	1.52
1	8s	93	PRO	C-N	6.07	1.42	1.34
1	8K	176	GLN	N-CA	-6.07	1.38	1.46
1	93	67	GLN	CA-C	6.07	1.60	1.52
1	9W	154	ARG	CA-CB	6.07	1.63	1.53
1	at	206	GLY	N-CA	6.07	1.53	1.44
1	aJ	189	LEU	CA-C	6.07	1.60	1.52
1	be	108	THR	CA-C	-6.07	1.44	1.52
1	bE	135	ILE	CA-C	6.07	1.60	1.52
1	c2	60	GLY	CA-C	-6.07	1.46	1.52
1	cG	185	MET	CA-CB	6.07	1.62	1.53
1	fe	65	ALA	C-N	6.07	1.41	1.33
1	fj	151	LEU	CA-C	6.07	1.61	1.52
1	fZ	1	PRO	N-CA	6.07	1.56	1.47
1	k	155	GLN	N-CA	-6.07	1.38	1.45
1	L	138	LEU	N-CA	-6.07	1.38	1.46
1	gw	72	THR	N-CA	-6.07	1.39	1.46
1	gG	144	MET	N-CA	6.07	1.54	1.46
1	hR	160	PRO	CA-C	-6.07	1.45	1.52
1	i3	224	PRO	CA-C	6.07	1.61	1.52
1	i4	226	HIS	CA-C	-6.07	1.45	1.52
1	ji	93	PRO	CA-CB	-6.07	1.45	1.53
1	k9	26	VAL	C-N	6.07	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kl	66	MET	C-O	-6.07	1.17	1.24
1	kP	182	LYS	N-CA	6.07	1.53	1.46
1	ld	26	VAL	N-CA	-6.07	1.39	1.46
1	lC	219	GLN	C-N	6.07	1.41	1.33
1	lQ	152	ASP	CA-C	6.07	1.61	1.52
1	3q	62	HIS	C-N	6.07	1.41	1.33
1	4h	129	ILE	CA-CB	6.07	1.61	1.54
1	4l	128	GLU	C-O	6.07	1.31	1.24
1	5j	122	PRO	C-N	6.07	1.41	1.33
1	5p	190	LEU	CA-CB	6.07	1.62	1.53
1	6v	130	TYR	CA-CB	6.07	1.62	1.53
1	8P	8	GLY	C-N	6.07	1.42	1.33
1	9s	114	GLN	C-N	6.07	1.41	1.33
1	9R	52	LEU	CA-CB	6.07	1.62	1.53
1	9S	189	LEU	CB-CG	6.07	1.65	1.53
1	aQ	84	HIS	CG-ND1	-6.07	1.31	1.38
1	bs	45	GLU	CA-CB	6.07	1.62	1.53
1	bJ	133	TRP	C-N	6.07	1.41	1.33
1	bW	145	TYR	N-CA	-6.07	1.38	1.46
1	c5	179	GLN	CA-C	-6.07	1.44	1.52
1	cq	165	VAL	N-CA	6.07	1.53	1.46
1	d9	143	ARG	N-CA	6.07	1.53	1.46
1	da	37	ILE	CA-CB	-6.07	1.46	1.54
1	eU	17	PRO	C-O	-6.07	1.17	1.24
1	C	179	GLN	N-CA	-6.07	1.39	1.46
1	9	106	GLY	CA-C	-6.07	1.42	1.51
1	gH	136	LEU	C-N	6.07	1.41	1.33
1	gP	124	ILE	CA-C	-6.07	1.48	1.53
1	gU	203	LYS	CA-C	6.07	1.60	1.52
1	hD	114	GLN	CA-C	-6.07	1.44	1.52
1	hV	193	ASN	CA-C	6.07	1.61	1.52
1	iM	146	SER	C-O	-6.07	1.20	1.25
1	1S	82	ARG	NE-CZ	6.07	1.39	1.33
1	j2	115	ILE	CB-CG1	6.07	1.65	1.53
1	j5	155	GLN	CA-CB	6.07	1.63	1.53
1	js	87	HIS	CD2-NE2	6.07	1.44	1.37
1	jy	185	MET	CA-C	6.07	1.60	1.52
1	kf	83	LEU	CA-C	6.07	1.60	1.52
1	21	5	ASN	CA-CB	6.07	1.63	1.53
1	km	87	HIS	CB-CG	-6.07	1.41	1.50
1	kw	35	GLU	N-CA	-6.07	1.38	1.46
1	kS	199	LYS	C-N	6.07	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	25	226	HIS	CG-CD2	6.07	1.42	1.35
1	lf	181	VAL	CA-C	6.07	1.60	1.52
1	lq	33	SER	CA-C	-6.07	1.45	1.53
1	lA	62	HIS	CG-CD2	6.07	1.42	1.35
1	lR	87	HIS	CB-CG	6.07	1.58	1.50
1	2l	73	ILE	CA-CB	6.07	1.62	1.54
1	2o	57	ASN	C-O	6.07	1.32	1.24
1	2P	78	ALA	CA-C	6.07	1.60	1.52
1	3u	184	TRP	N-CA	-6.07	1.38	1.46
1	3L	88	ALA	N-CA	-6.07	1.38	1.46
1	3Z	224	PRO	CA-C	6.07	1.58	1.52
1	40	113	GLU	CA-CB	6.07	1.62	1.53
1	4R	84	HIS	ND1-CE1	6.07	1.38	1.32
1	4T	185	MET	N-CA	6.07	1.53	1.46
1	57	62	HIS	ND1-CE1	6.07	1.38	1.32
1	5o	33	SER	CA-C	-6.07	1.46	1.52
1	5F	82	ARG	CA-CB	6.07	1.62	1.53
1	6B	227	LYS	C-N	6.07	1.41	1.33
1	6C	92	GLU	CA-C	6.07	1.60	1.53
1	7T	155	GLN	CA-CB	6.07	1.62	1.53
1	7X	87	HIS	CE1-NE2	6.07	1.38	1.32
1	83	102	SER	CA-CB	6.07	1.62	1.53
1	86	70	LYS	CA-CB	6.07	1.62	1.53
1	8g	70	LYS	CA-CB	6.07	1.62	1.53
1	8L	123	PRO	C-N	6.07	1.39	1.33
1	9k	138	LEU	C-O	-6.07	1.17	1.24
1	9D	99	PRO	N-CD	6.07	1.56	1.47
1	ag	91	ILE	CA-C	6.07	1.60	1.52
1	aZ	149	SER	CA-C	6.07	1.61	1.53
1	b0	6	LEU	CA-C	6.07	1.60	1.52
1	b5	202	LEU	C-N	6.07	1.41	1.33
1	bi	34	PRO	N-CA	-6.07	1.39	1.47
1	bG	77	ALA	N-CA	-6.07	1.38	1.46
1	c8	171	THR	N-CA	6.07	1.53	1.46
1	cj	41	SER	N-CA	6.07	1.53	1.46
1	cq	111	LEU	CA-C	6.07	1.60	1.52
1	cK	45	GLU	CA-CB	6.07	1.63	1.53
1	cS	112	GLN	N-CA	-6.07	1.39	1.46
1	do	185	MET	CA-CB	6.07	1.62	1.53
1	dF	213	GLU	C-N	6.07	1.41	1.33
1	dR	87	HIS	ND1-CE1	6.07	1.38	1.32
1	dS	83	LEU	CA-CB	6.07	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e0	100	ARG	CD-NE	6.07	1.54	1.46
1	e0	134	ILE	C-N	6.07	1.41	1.33
1	ef	206	GLY	C-N	6.07	1.39	1.33
1	ek	93	PRO	CA-C	6.07	1.60	1.52
1	f1	76	GLU	CA-C	-6.07	1.44	1.52
1	f8	229	ARG	C-N	6.07	1.42	1.33
1	g4	132	ARG	N-CA	-6.07	1.39	1.46
1	h	115	ILE	C-N	6.07	1.41	1.33
1	E	69	LEU	CA-C	-6.07	1.45	1.52
1	I	10	MET	C-N	6.07	1.40	1.33
1	5	3	VAL	CA-CB	-6.07	1.46	1.54
1	gM	199	LYS	N-CA	-6.07	1.39	1.46
1	iq	82	ARG	C-N	6.07	1.42	1.33
1	jM	15	ILE	CA-C	6.07	1.62	1.53
1	km	207	PRO	N-CA	-6.07	1.40	1.47
1	24	141	ILE	C-N	6.07	1.41	1.33
1	kR	25	LYS	CA-CB	6.07	1.62	1.53
1	4j	176	GLN	CA-C	-6.07	1.44	1.52
1	54	33	SER	CA-CB	6.07	1.63	1.54
1	5d	10	MET	N-CA	-6.07	1.38	1.46
1	5E	197	ASP	CA-C	6.07	1.61	1.52
1	5W	71	GLU	C-N	6.07	1.41	1.33
1	6l	19	THR	CA-C	6.07	1.60	1.52
1	7i	117	TRP	CD2-CE2	6.07	1.51	1.41
1	7G	105	ALA	C-N	6.07	1.41	1.33
1	8u	151	LEU	CA-CB	6.07	1.64	1.53
1	8w	20	LEU	CA-C	6.07	1.60	1.52
1	9d	58	THR	N-CA	6.07	1.54	1.46
1	ak	197	ASP	CA-C	6.07	1.60	1.52
1	cc	59	VAL	N-CA	-6.07	1.39	1.46
1	cE	115	ILE	CA-C	6.07	1.60	1.52
1	1r	20	LEU	C-O	-6.07	1.16	1.24
1	eY	123	PRO	N-CA	6.07	1.55	1.47
1	C	82	ARG	N-CA	-6.07	1.39	1.46
1	ga	49	PRO	CA-CB	-6.07	1.45	1.53
1	gi	86	VAL	CA-C	-6.07	1.45	1.52
1	gH	179	GLN	CA-CB	6.07	1.63	1.53
1	gI	79	GLU	N-CA	-6.07	1.38	1.46
1	h7	160	PRO	CA-CB	6.07	1.57	1.53
1	hk	76	GLU	CA-C	6.07	1.60	1.52
1	1K	93	PRO	CA-C	6.07	1.59	1.52
1	hH	29	GLU	CA-CB	6.07	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hY	12	HIS	ND1-CE1	6.07	1.38	1.32
1	i3	10	MET	CA-CB	6.07	1.61	1.53
1	is	134	ILE	CA-CB	-6.07	1.47	1.54
1	iu	148	THR	CA-CB	6.07	1.61	1.53
1	1Q	186	THR	N-CA	6.07	1.53	1.46
1	iG	115	ILE	C-N	6.07	1.41	1.33
1	iO	16	SER	CA-C	6.07	1.57	1.52
1	iT	80	TRP	C-N	6.07	1.42	1.33
1	iV	210	THR	N-CA	6.07	1.52	1.45
1	jd	6	LEU	CA-C	6.07	1.60	1.52
1	1V	165	VAL	C-N	6.07	1.41	1.33
1	jY	68	MET	CA-CB	6.07	1.62	1.53
1	ka	154	ARG	CA-C	-6.07	1.45	1.52
1	kh	62	HIS	CE1-NE2	6.07	1.38	1.32
1	kn	154	ARG	CA-C	-6.07	1.45	1.52
1	22	176	GLN	CA-CB	6.07	1.60	1.52
1	23	26	VAL	C-N	6.07	1.41	1.33
1	lh	133	TRP	CZ2-CH2	6.07	1.48	1.37
1	ly	62	HIS	CE1-NE2	-6.07	1.26	1.32
1	35	12	HIS	ND1-CE1	6.07	1.38	1.32
1	3W	41	SER	C-N	6.07	1.41	1.33
1	4v	194	ALA	CA-CB	6.07	1.62	1.53
1	4N	226	HIS	CB-CG	6.07	1.58	1.50
1	5a	191	VAL	C-O	-6.07	1.17	1.24
1	5C	12	HIS	CA-C	6.07	1.60	1.52
1	5D	113	GLU	C-N	6.07	1.42	1.33
1	6g	2	ILE	CA-CB	-6.07	1.46	1.54
1	7y	15	ILE	CA-CB	6.07	1.61	1.54
1	7J	125	PRO	N-CA	6.07	1.52	1.47
1	8k	111	LEU	C-N	6.07	1.41	1.33
1	9v	141	ILE	CA-CB	-6.07	1.47	1.54
1	9L	143	ARG	CA-CB	6.07	1.62	1.53
1	9L	219	GLN	N-CA	-6.07	1.38	1.46
1	a3	58	THR	CA-C	-6.07	1.44	1.52
1	c3	97	ARG	CD-NE	6.07	1.54	1.46
1	cy	81	ASP	N-CA	-6.07	1.39	1.46
1	cH	219	GLN	CA-CB	6.07	1.60	1.53
1	d1	202	LEU	CA-C	-6.07	1.44	1.52
1	d4	93	PRO	N-CA	6.07	1.54	1.47
1	do	40	PHE	N-CA	-6.07	1.38	1.46
1	dA	74	ASN	C-O	-6.07	1.17	1.24
1	e1	115	ILE	N-CA	6.07	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ei	156	GLY	C-O	-6.07	1.15	1.24
1	et	6	LEU	CA-C	6.07	1.60	1.52
1	eN	28	GLU	CA-C	6.07	1.60	1.52
1	fg	166	ASP	CA-CB	6.07	1.62	1.53
1	fg	209	ALA	N-CA	-6.07	1.38	1.46
1	fm	172	LEU	N-CA	6.07	1.53	1.46
1	1y	54	THR	CA-C	-6.07	1.45	1.52
1	g2	125	PRO	CA-CB	6.07	1.60	1.53
1	m	154	ARG	CA-C	-6.07	1.45	1.52
1	H	210	THR	CA-C	-6.07	1.45	1.53
1	M	43	LEU	CA-C	6.07	1.61	1.52
1	gi	100	ARG	N-CA	6.07	1.53	1.45
1	1D	103	ASP	CA-CB	6.07	1.63	1.53
1	gw	67	GLN	CA-C	6.07	1.60	1.52
1	gS	188	THR	N-CA	-6.07	1.40	1.46
1	1I	36	VAL	C-N	6.07	1.42	1.34
1	i7	154	ARG	C-O	6.07	1.30	1.23
1	ig	40	PHE	N-CA	-6.07	1.39	1.46
1	j8	71	GLU	C-N	6.07	1.42	1.34
1	jn	12	HIS	ND1-CE1	6.07	1.38	1.32
1	k2	12	HIS	CG-ND1	6.07	1.45	1.38
1	k3	198	CYS	CA-CB	6.07	1.63	1.53
1	kS	186	THR	CA-CB	6.07	1.64	1.53
1	l4	137	GLY	CA-C	-6.07	1.45	1.52
1	lk	107	THR	C-N	6.07	1.42	1.33
1	lu	59	VAL	N-CA	6.07	1.53	1.46
1	lE	70	LYS	C-N	6.07	1.41	1.33
1	lL	176	GLN	CA-CB	6.07	1.63	1.53
1	lO	75	GLU	N-CA	-6.07	1.38	1.46
1	2c	226	HIS	ND1-CE1	6.07	1.38	1.32
1	2g	48	THR	C-N	6.07	1.41	1.33
1	2S	196	PRO	CA-CB	-6.07	1.45	1.53
1	2U	86	VAL	C-N	6.07	1.42	1.33
1	2Y	83	LEU	CA-CB	6.07	1.62	1.53
1	3i	164	TYR	C-N	6.07	1.41	1.33
1	3H	226	HIS	CE1-NE2	6.07	1.38	1.32
1	42	199	LYS	CA-CB	6.07	1.62	1.53
1	4f	17	PRO	CA-C	6.07	1.61	1.52
1	4g	187	GLU	CA-C	6.07	1.60	1.52
1	4B	43	LEU	CA-CB	6.07	1.64	1.53
1	58	100	ARG	NE-CZ	-6.07	1.26	1.33
1	5a	61	GLY	C-O	-6.07	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6v	140	LYS	C-O	-6.07	1.17	1.24
1	6R	139	ASN	N-CA	-6.07	1.39	1.46
1	78	160	PRO	CA-C	6.07	1.59	1.52
1	7m	49	PRO	N-CD	-6.07	1.39	1.47
1	7I	162	ARG	N-CA	-6.07	1.39	1.46
1	7K	31	ALA	N-CA	-6.07	1.38	1.46
1	8e	202	LEU	CA-CB	6.07	1.62	1.53
1	8W	74	ASN	C-N	6.07	1.41	1.33
1	a0	41	SER	N-CA	6.07	1.53	1.46
1	ae	37	ILE	CA-CB	6.07	1.57	1.54
1	al	224	PRO	C-N	6.07	1.41	1.33
1	aB	99	PRO	CA-C	6.07	1.60	1.52
1	aW	139	ASN	C-N	6.07	1.41	1.33
1	bl	163	ASP	CA-CB	6.07	1.62	1.53
1	c3	55	MET	C-N	6.07	1.41	1.33
1	c5	154	ARG	CD-NE	6.07	1.54	1.46
1	ck	26	VAL	CA-C	-6.07	1.45	1.52
1	cn	78	ALA	C-N	6.07	1.41	1.33
1	cH	36	VAL	CA-CB	-6.07	1.47	1.54
1	cS	68	MET	CA-CB	6.07	1.62	1.53
1	1s	51	ASP	N-CA	6.07	1.53	1.46
1	eN	59	VAL	C-N	6.07	1.42	1.33
1	eZ	4	GLN	CA-C	-6.07	1.45	1.52
1	fz	142	VAL	N-CA	6.07	1.53	1.46
1	fG	90	PRO	N-CD	-6.07	1.39	1.47
1	g0	130	TYR	CA-C	6.07	1.60	1.52
1	h	127	GLY	CA-C	-6.07	1.44	1.51
1	B	49	PRO	CA-CB	6.07	1.62	1.53
1	hk	13	GLN	C-N	6.06	1.42	1.33
1	jg	205	LEU	CA-CB	6.06	1.62	1.53
1	1V	154	ARG	CA-CB	6.06	1.65	1.54
1	jF	13	GLN	C-N	-6.06	1.24	1.33
1	l8	87	HIS	ND1-CE1	6.06	1.38	1.32
1	lJ	52	LEU	C-N	6.06	1.41	1.33
1	35	192	GLN	CA-C	-6.06	1.45	1.52
1	4d	50	GLN	C-N	6.06	1.41	1.33
1	4H	59	VAL	N-CA	6.06	1.53	1.46
1	5b	132	ARG	CD-NE	6.06	1.54	1.46
1	7B	120	HIS	ND1-CE1	6.06	1.38	1.32
1	7G	136	LEU	C-O	6.06	1.31	1.24
1	8G	18	ARG	CZ-NH1	-6.06	1.24	1.32
1	97	84	HIS	C-N	6.06	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9n	224	PRO	CA-CB	6.06	1.62	1.53
1	9L	131	LYS	C-O	-6.06	1.16	1.24
1	av	82	ARG	CA-C	-6.06	1.44	1.52
1	13	69	LEU	N-CA	6.06	1.53	1.46
1	aT	82	ARG	CD-NE	6.06	1.54	1.46
1	bn	15	ILE	CA-C	6.06	1.59	1.52
1	by	177	ALA	C-N	6.06	1.41	1.33
1	cS	148	THR	C-N	6.06	1.41	1.33
1	cW	26	VAL	C-O	6.06	1.30	1.24
1	es	167	ARG	CA-C	6.06	1.60	1.52
1	eA	161	PHE	N-CA	-6.06	1.39	1.46
1	1x	133	TRP	CA-CB	6.06	1.62	1.53
1	fM	126	VAL	N-CA	-6.06	1.39	1.46
1	u	111	LEU	C-N	6.06	1.42	1.34
1	gm	152	ASP	C-N	6.06	1.41	1.33
1	hB	86	VAL	CA-CB	-6.06	1.46	1.54
1	hZ	7	GLN	CA-CB	6.06	1.62	1.53
1	iK	131	LYS	C-O	-6.06	1.17	1.24
1	jE	172	LEU	CA-C	6.06	1.60	1.52
1	k0	216	THR	C-N	6.06	1.41	1.33
1	k7	113	GLU	C-N	6.06	1.41	1.33
1	km	158	LYS	N-CA	6.06	1.53	1.46
1	30	152	ASP	N-CA	-6.06	1.38	1.46
1	36	57	ASN	C-N	6.06	1.42	1.33
1	3u	162	ARG	NE-CZ	6.06	1.39	1.33
1	3S	4	GLN	CA-CB	6.06	1.63	1.53
1	4e	39	MET	C-N	6.06	1.41	1.33
1	4I	5	ASN	C-N	6.06	1.42	1.33
1	4W	100	ARG	CA-C	6.06	1.61	1.53
1	5g	50	GLN	C-O	-6.06	1.17	1.24
1	5l	212	GLU	CA-CB	6.06	1.62	1.53
1	5y	150	ILE	CA-CB	-6.06	1.45	1.54
1	5I	155	GLN	C-N	6.06	1.42	1.33
1	5T	104	ILE	C-N	6.06	1.42	1.33
1	63	117	TRP	NE1-CE2	-6.06	1.30	1.37
1	6o	145	TYR	C-O	-6.06	1.16	1.24
1	6p	145	TYR	CA-CB	6.06	1.61	1.53
1	77	101	GLY	N-CA	6.06	1.53	1.45
1	7u	65	ALA	CA-C	6.06	1.60	1.52
1	7v	215	MET	N-CA	6.06	1.54	1.46
1	7H	161	PHE	CA-CB	6.06	1.62	1.53
1	7U	76	GLU	C-N	6.06	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8r	19	THR	CA-C	-6.06	1.44	1.52
1	8G	226	HIS	ND1-CE1	6.06	1.38	1.32
1	9R	71	GLU	C-N	6.06	1.41	1.33
1	bq	99	PRO	N-CD	6.06	1.56	1.47
1	cu	161	PHE	CA-CB	6.06	1.62	1.53
1	d2	117	TRP	CA-C	-6.06	1.45	1.52
1	dC	164	TYR	C-O	-6.06	1.17	1.24
1	dR	163	ASP	CA-CB	6.06	1.62	1.53
1	dX	45	GLU	CA-C	6.06	1.61	1.52
1	dX	200	THR	N-CA	-6.06	1.39	1.46
1	ed	114	GLN	N-CA	6.06	1.53	1.46
1	eq	216	THR	C-N	6.06	1.41	1.33
1	eU	6	LEU	C-N	6.06	1.41	1.33
1	g4	71	GLU	CA-C	-6.06	1.44	1.52
1	b	133	TRP	CD2-CE3	6.06	1.50	1.40
1	i	67	GLN	C-O	-6.06	1.17	1.24
1	m	215	MET	CA-C	-6.06	1.44	1.52
1	u	169	TYR	CA-C	6.06	1.60	1.52
1	gf	174	ALA	C-N	6.06	1.42	1.33
1	ht	84	HIS	ND1-CE1	6.06	1.38	1.32
1	hH	67	GLN	CA-C	6.06	1.60	1.52
1	iv	11	VAL	CA-CB	-6.06	1.46	1.54
1	jn	67	GLN	C-N	6.06	1.41	1.33
1	jz	113	GLU	CA-C	-6.06	1.45	1.52
1	k6	12	HIS	ND1-CE1	6.06	1.38	1.32
1	lg	87	HIS	ND1-CE1	6.06	1.38	1.32
1	li	108	THR	N-CA	6.06	1.53	1.46
1	lB	176	GLN	CA-C	6.06	1.60	1.52
1	2r	82	ARG	CD-NE	6.06	1.54	1.46
1	2B	63	GLN	N-CA	-6.06	1.38	1.46
1	2P	47	ALA	CA-C	6.06	1.60	1.52
1	3a	230	VAL	C-N	6.06	1.41	1.33
1	42	129	ILE	CA-CB	-6.06	1.47	1.54
1	4b	124	ILE	N-CA	-6.06	1.41	1.46
1	65	148	THR	CA-C	-6.06	1.45	1.52
1	6i	197	ASP	C-N	6.06	1.42	1.33
1	6j	23	TRP	N-CA	-6.06	1.39	1.46
1	6K	4	GLN	N-CA	-6.06	1.38	1.45
1	6X	44	SER	CA-CB	6.06	1.62	1.53
1	7a	175	GLU	C-N	6.06	1.41	1.33
1	7V	110	THR	C-N	6.06	1.42	1.33
1	8A	135	ILE	CA-C	-6.06	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8Q	85	PRO	CA-C	6.06	1.59	1.52
1	9L	90	PRO	CA-CB	6.06	1.62	1.53
1	a5	121	ASN	CA-C	6.06	1.57	1.52
1	aR	125	PRO	N-CA	6.06	1.51	1.47
1	bL	118	MET	CG-SD	6.06	1.96	1.80
1	bU	168	PHE	CA-CB	6.06	1.62	1.53
1	cA	72	THR	C-N	6.06	1.41	1.33
1	cG	136	LEU	CA-CB	6.06	1.62	1.53
1	da	133	TRP	CA-CB	6.06	1.62	1.53
1	dM	112	GLN	CA-C	6.06	1.60	1.52
1	el	210	THR	N-CA	6.06	1.53	1.45
1	em	217	ALA	CA-CB	6.06	1.63	1.53
1	1u	86	VAL	C-N	6.06	1.41	1.33
1	f0	18	ARG	CD-NE	6.06	1.54	1.46
1	fs	10	MET	CA-C	6.06	1.58	1.53
1	fD	148	THR	C-O	-6.06	1.16	1.23
1	fY	86	VAL	CA-CB	-6.06	1.47	1.54
1	7	140	LYS	C-N	6.06	1.41	1.33
1	gS	220	GLY	CA-C	-6.06	1.43	1.51
1	h0	22	ALA	N-CA	-6.06	1.39	1.46
1	h4	226	HIS	CG-ND1	6.06	1.45	1.38
1	h7	105	ALA	CA-CB	6.06	1.63	1.53
1	in	187	GLU	N-CA	-6.06	1.39	1.46
1	iS	143	ARG	CA-C	6.06	1.60	1.52
1	iW	160	PRO	CA-C	-6.06	1.45	1.52
1	j9	4	GLN	N-CA	-6.06	1.38	1.46
1	1X	125	PRO	CA-C	-6.06	1.46	1.53
1	k3	229	ARG	CA-C	-6.06	1.45	1.52
1	k5	164	TYR	CA-CB	6.06	1.63	1.53
1	kd	20	LEU	CA-C	6.06	1.60	1.52
1	kh	228	ALA	C-N	6.06	1.42	1.33
1	kn	117	TRP	CA-CB	6.06	1.62	1.53
1	lu	147	PRO	CA-CB	-6.06	1.44	1.53
1	lv	226	HIS	ND1-CE1	6.06	1.38	1.32
1	lH	113	GLU	CA-CB	6.06	1.62	1.53
1	lH	184	TRP	NE1-CE2	-6.06	1.30	1.37
1	lL	221	VAL	N-CA	-6.06	1.39	1.46
1	2k	22	ALA	CA-C	6.06	1.60	1.52
1	2M	224	PRO	N-CD	-6.06	1.39	1.47
1	30	210	THR	C-N	6.06	1.42	1.34
1	37	177	ALA	N-CA	6.06	1.53	1.45
1	3k	75	GLU	CA-C	6.06	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3x	119	THR	CA-C	-6.06	1.45	1.52
1	3F	180	GLU	CA-C	-6.06	1.45	1.52
1	3J	124	ILE	CA-C	6.06	1.57	1.53
1	4k	97	ARG	CZ-NH2	-6.06	1.25	1.33
1	4o	229	ARG	N-CA	-6.06	1.39	1.46
1	4F	69	LEU	N-CA	-6.06	1.39	1.46
1	4R	173	ARG	N-CA	-6.06	1.39	1.46
1	50	187	GLU	C-N	6.06	1.41	1.33
1	5j	23	TRP	C-N	-6.06	1.27	1.34
1	5U	93	PRO	CA-CB	-6.06	1.45	1.53
1	60	92	GLU	CA-C	6.06	1.60	1.53
1	6a	69	LEU	C-N	6.06	1.41	1.33
1	6u	98	GLU	CA-CB	6.06	1.62	1.53
1	6H	138	LEU	C-N	6.06	1.41	1.33
1	6W	12	HIS	CA-C	6.06	1.60	1.52
1	71	149	SER	CA-CB	6.06	1.63	1.53
1	7f	185	MET	CA-CB	6.06	1.62	1.53
1	7m	221	VAL	CA-C	6.06	1.59	1.52
1	7W	44	SER	CA-CB	6.06	1.62	1.53
1	7W	131	LYS	CA-CB	6.06	1.62	1.53
1	7X	29	GLU	CA-C	-6.06	1.45	1.52
1	98	191	VAL	CA-CB	-6.06	1.47	1.54
1	9b	112	GLN	CA-C	6.06	1.60	1.52
1	a2	57	ASN	C-N	6.06	1.42	1.33
1	aq	139	ASN	N-CA	6.06	1.53	1.46
1	aD	55	MET	N-CA	6.06	1.53	1.46
1	bp	119	THR	C-N	6.06	1.42	1.33
1	bY	110	THR	CA-C	-6.06	1.44	1.52
1	c3	7	GLN	C-N	6.06	1.39	1.33
1	cR	70	LYS	C-N	6.06	1.42	1.33
1	ds	38	PRO	N-CD	6.06	1.56	1.47
1	dw	117	TRP	NE1-CE2	-6.06	1.30	1.37
1	f8	205	LEU	CA-C	-6.06	1.44	1.52
1	fG	84	HIS	CE1-NE2	6.06	1.38	1.32
1	fO	144	MET	CA-C	6.06	1.61	1.52
1	T	154	ARG	CD-NE	6.06	1.54	1.46
1	gi	218	CYS	CA-CB	6.06	1.63	1.53
1	h7	166	ASP	N-CA	-6.06	1.39	1.46
1	hH	165	VAL	C-N	6.06	1.42	1.33
1	ih	62	HIS	CE1-NE2	6.06	1.38	1.32
1	im	112	GLN	N-CA	-6.06	1.39	1.46
1	iX	67	GLN	CA-C	-6.06	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jb	200	THR	C-N	6.06	1.41	1.33
1	jy	223	GLY	C-N	6.06	1.40	1.33
1	jD	37	ILE	CA-C	6.06	1.59	1.52
1	jV	179	GLN	C-N	6.06	1.41	1.33
1	kp	176	GLN	N-CA	-6.06	1.38	1.46
1	28	111	LEU	CA-C	6.06	1.60	1.52
1	30	229	ARG	CD-NE	6.06	1.54	1.46
1	3k	141	ILE	C-N	6.06	1.41	1.33
1	3C	207	PRO	C-N	6.06	1.42	1.33
1	4O	155	GLN	CA-CB	6.06	1.63	1.53
1	53	183	ASN	C-N	6.06	1.41	1.33
1	5H	138	LEU	CA-C	-6.06	1.44	1.52
1	5H	227	LYS	CA-CB	6.06	1.63	1.53
1	6X	199	LYS	CA-C	6.06	1.60	1.52
1	7w	62	HIS	CA-CB	6.06	1.62	1.53
1	7z	45	GLU	C-N	6.06	1.41	1.33
1	7F	39	MET	CA-C	6.06	1.60	1.52
1	7F	168	PHE	N-CA	6.06	1.53	1.46
1	7V	20	LEU	C-O	-6.06	1.17	1.24
1	81	146	SER	CA-C	-6.06	1.44	1.52
1	9m	79	GLU	CA-C	-6.06	1.45	1.52
1	11	208	ALA	C-N	6.06	1.42	1.33
1	aJ	80	TRP	N-CA	6.06	1.53	1.46
1	aV	51	ASP	CA-C	-6.06	1.45	1.52
1	aZ	224	PRO	CA-C	6.06	1.59	1.52
1	16	129	ILE	CA-C	6.06	1.60	1.52
1	cr	137	GLY	N-CA	6.06	1.53	1.45
1	cT	164	TYR	CA-C	6.06	1.61	1.52
1	dr	138	LEU	CA-CB	6.06	1.62	1.53
1	es	1	PRO	N-CA	6.06	1.56	1.47
1	et	84	HIS	CB-CG	6.06	1.58	1.50
1	1u	57	ASN	CA-CB	6.06	1.62	1.53
1	f1	80	TRP	CA-CB	6.06	1.63	1.53
1	1w	112	GLN	N-CA	6.06	1.53	1.46
1	fD	62	HIS	C-N	-6.06	1.25	1.33
1	fF	92	GLU	CA-C	-6.06	1.47	1.53
1	1z	92	GLU	C-N	6.06	1.40	1.34
1	i	12	HIS	C-N	6.06	1.42	1.33
1	D	100	ARG	N-CA	6.06	1.53	1.45
1	gH	57	ASN	CA-CB	6.06	1.64	1.53
1	gL	114	GLN	CA-C	-6.06	1.45	1.52
1	1F	26	VAL	N-CA	6.06	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ho	32	PHE	CA-CB	6.06	1.60	1.52
1	im	120	HIS	CD2-NE2	6.06	1.44	1.37
1	io	25	LYS	C-N	6.06	1.41	1.33
1	jj	125	PRO	CA-C	-6.06	1.48	1.53
1	4u	203	LYS	CA-CB	6.06	1.62	1.53
1	4B	64	ALA	CA-C	6.06	1.60	1.52
1	5p	190	LEU	CA-C	-6.06	1.44	1.52
1	5X	141	ILE	CA-C	-6.06	1.45	1.52
1	6B	184	TRP	CA-CB	6.06	1.63	1.53
1	73	108	THR	CB-OG1	-6.06	1.34	1.43
1	7I	69	LEU	CA-CB	6.06	1.62	1.53
1	98	63	GLN	N-CA	6.06	1.53	1.46
1	a7	39	MET	N-CA	-6.06	1.39	1.46
1	15	226	HIS	N-CA	6.06	1.53	1.46
1	bg	165	VAL	N-CA	-6.06	1.39	1.46
1	cV	103	ASP	C-N	6.06	1.41	1.33
1	eo	127	GLY	N-CA	-6.06	1.38	1.45
1	ex	1	PRO	N-CD	6.06	1.56	1.47
1	eD	123	PRO	C-N	6.06	1.38	1.33
1	g6	32	PHE	N-CA	6.06	1.52	1.46
1	s	88	ALA	C-N	6.06	1.42	1.33
1	gY	226	HIS	CD2-NE2	6.05	1.44	1.37
1	ho	38	PRO	C-N	6.05	1.41	1.33
1	ii	121	ASN	CA-C	6.05	1.59	1.52
1	iq	219	GLN	CA-CB	6.05	1.61	1.53
1	is	186	THR	N-CA	6.05	1.53	1.46
1	j4	120	HIS	CE1-NE2	6.05	1.38	1.32
1	jD	103	ASP	C-N	6.05	1.41	1.34
1	jO	77	ALA	C-N	6.05	1.41	1.33
1	jQ	75	GLU	CA-C	-6.05	1.45	1.52
1	kt	55	MET	CA-CB	6.05	1.62	1.53
1	kP	153	ILE	CA-C	6.05	1.59	1.53
1	kX	87	HIS	CD2-NE2	6.05	1.44	1.37
1	28	165	VAL	N-CA	-6.05	1.39	1.46
1	2f	34	PRO	CA-CB	6.05	1.62	1.53
1	38	51	ASP	CA-CB	6.05	1.62	1.53
1	3g	120	HIS	CB-CG	6.05	1.58	1.50
1	3r	58	THR	C-N	6.05	1.40	1.33
1	4h	41	SER	CA-C	6.05	1.60	1.52
1	4q	129	ILE	C-O	-6.05	1.17	1.24
1	4x	142	VAL	C-N	6.05	1.41	1.33
1	4R	64	ALA	CA-CB	-6.05	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	57	61	GLY	N-CA	-6.05	1.37	1.45
1	5L	25	LYS	CA-CB	6.05	1.62	1.53
1	5P	18	ARG	CZ-NH2	-6.05	1.25	1.33
1	6A	47	ALA	C-O	-6.05	1.16	1.23
1	6L	21	ASN	C-N	6.05	1.41	1.33
1	6R	81	ASP	C-N	6.05	1.41	1.33
1	6U	162	ARG	CZ-NH2	-6.05	1.25	1.33
1	7e	221	VAL	C-N	6.05	1.39	1.32
1	7X	201	ILE	N-CA	6.05	1.53	1.46
1	8t	37	ILE	CA-C	6.05	1.57	1.52
1	9P	127	GLY	CA-C	6.05	1.59	1.52
1	9Q	69	LEU	CA-C	6.05	1.60	1.52
1	ar	134	ILE	C-N	6.05	1.41	1.33
1	aK	190	LEU	C-N	6.05	1.41	1.33
1	aP	72	THR	CA-C	-6.05	1.45	1.52
1	19	143	ARG	CA-C	6.05	1.60	1.52
1	cJ	107	THR	C-N	6.05	1.41	1.33
1	d7	18	ARG	CD-NE	6.05	1.54	1.46
1	es	162	ARG	CD-NE	6.05	1.54	1.46
1	eC	159	GLU	CA-C	6.05	1.59	1.52
1	eR	191	VAL	C-N	-6.05	1.26	1.33
1	eZ	226	HIS	ND1-CE1	6.05	1.38	1.32
1	fz	212	GLU	N-CA	6.05	1.54	1.46
1	fD	140	LYS	CA-C	-6.05	1.45	1.52
1	fK	150	ILE	C-N	6.05	1.42	1.34
1	fZ	173	ARG	CA-CB	6.05	1.62	1.53
1	e	62	HIS	ND1-CE1	6.05	1.38	1.32
1	C	165	VAL	CA-C	-6.05	1.45	1.52
1	8	32	PHE	CA-CB	6.05	1.63	1.53
1	gD	48	THR	C-N	6.05	1.43	1.33
1	hW	84	HIS	ND1-CE1	6.05	1.38	1.32
1	iU	88	ALA	CA-C	6.05	1.60	1.52
1	jf	126	VAL	C-N	6.05	1.41	1.33
1	jg	54	THR	N-CA	6.05	1.53	1.46
1	jB	214	MET	C-N	6.05	1.41	1.33
1	jM	9	GLN	N-CA	6.05	1.54	1.46
1	jV	33	SER	C-N	-6.05	1.28	1.34
1	2b	226	HIS	CE1-NE2	6.05	1.38	1.32
1	2A	115	ILE	CA-CB	-6.05	1.46	1.54
1	3j	12	HIS	CA-C	-6.05	1.45	1.52
1	3F	126	VAL	C-N	6.05	1.40	1.33
1	3R	174	ALA	C-N	6.05	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4l	202	LEU	N-CA	6.05	1.53	1.46
1	6i	191	VAL	CA-C	-6.05	1.45	1.52
1	6j	229	ARG	CA-CB	6.05	1.62	1.53
1	7K	59	VAL	CA-CB	-6.05	1.46	1.54
1	9L	26	VAL	C-N	6.05	1.40	1.33
1	aE	13	GLN	C-N	6.05	1.41	1.33
1	aN	147	PRO	N-CD	-6.05	1.39	1.47
1	cS	221	VAL	C-N	6.05	1.42	1.33
1	d3	22	ALA	C-N	6.05	1.41	1.33
1	d4	209	ALA	CA-C	6.05	1.60	1.52
1	eF	176	GLN	N-CA	-6.05	1.38	1.46
1	eM	31	ALA	CA-CB	6.05	1.63	1.53
1	f7	195	ASN	CA-C	6.05	1.60	1.52
1	fg	74	ASN	C-N	6.05	1.42	1.34
1	fi	216	THR	C-O	-6.05	1.16	1.24
1	d	198	CYS	CA-CB	6.05	1.62	1.53
1	A	164	TYR	CA-C	-6.05	1.45	1.52
1	gt	158	LYS	CA-CB	6.05	1.64	1.54
1	1J	190	LEU	CA-CB	6.05	1.62	1.53
1	hN	87	HIS	ND1-CE1	6.05	1.38	1.32
1	hX	33	SER	CA-C	6.05	1.59	1.53
1	iN	2	ILE	CA-CB	-6.05	1.47	1.54
1	k0	157	PRO	N-CD	6.05	1.56	1.47
1	kh	1	PRO	N-CD	6.05	1.56	1.47
1	ki	12	HIS	ND1-CE1	6.05	1.38	1.32
1	km	164	TYR	C-N	6.05	1.41	1.33
1	kw	169	TYR	C-N	6.05	1.41	1.33
1	lj	180	GLU	N-CA	-6.05	1.39	1.46
1	lC	37	ILE	CA-CB	6.05	1.58	1.53
1	2K	193	ASN	C-N	-6.05	1.25	1.33
1	2V	23	TRP	NE1-CE2	-6.05	1.30	1.37
1	3H	216	THR	CA-C	6.05	1.61	1.52
1	3J	98	GLU	CA-C	6.05	1.60	1.52
1	3M	203	LYS	CA-C	6.05	1.60	1.52
1	46	19	THR	CA-C	-6.05	1.45	1.52
1	4d	136	LEU	C-N	6.05	1.41	1.33
1	4N	87	HIS	CD2-NE2	6.05	1.44	1.37
1	59	90	PRO	CA-CB	6.05	1.61	1.53
1	5t	230	VAL	CA-CB	6.05	1.61	1.54
1	5G	89	GLY	CA-C	6.05	1.60	1.51
1	5K	26	VAL	CA-CB	-6.05	1.47	1.54
1	6K	90	PRO	N-CA	6.05	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	71	54	THR	CA-C	-6.05	1.45	1.52
1	72	147	PRO	CA-CB	6.05	1.62	1.53
1	7U	27	VAL	CA-CB	6.05	1.61	1.54
1	7W	112	GLN	CA-C	6.05	1.60	1.52
1	90	158	LYS	CA-CB	6.05	1.61	1.53
1	aw	204	ALA	C-N	6.05	1.42	1.33
1	aP	54	THR	CA-CB	-6.05	1.44	1.53
1	bm	221	VAL	N-CA	-6.05	1.38	1.46
1	bB	62	HIS	CA-C	-6.05	1.45	1.53
1	c3	26	VAL	CA-C	6.05	1.60	1.52
1	cD	127	GLY	N-CA	6.05	1.53	1.45
1	cW	165	VAL	CA-CB	-6.05	1.46	1.54
1	df	87	HIS	ND1-CE1	6.05	1.38	1.32
1	dg	226	HIS	CG-ND1	6.05	1.45	1.38
1	1k	186	THR	N-CA	-6.05	1.39	1.46
1	dv	210	THR	CA-C	6.05	1.60	1.52
1	e5	181	VAL	CA-CB	-6.05	1.47	1.54
1	ef	23	TRP	CA-CB	6.05	1.62	1.53
1	ef	185	MET	N-CA	-6.05	1.39	1.46
1	eT	30	LYS	CA-CB	6.05	1.62	1.53
1	f3	18	ARG	CA-CB	6.05	1.62	1.53
1	fo	63	GLN	C-N	6.05	1.41	1.33
1	fD	42	ALA	N-CA	6.05	1.53	1.46
1	fR	88	ALA	CA-CB	6.05	1.62	1.53
1	0	128	GLU	C-N	6.05	1.41	1.33
1	k	174	ALA	CA-CB	6.05	1.62	1.53
1	r	109	SER	C-N	-6.05	1.25	1.33
1	v	102	SER	N-CA	-6.05	1.38	1.46
1	ga	207	PRO	CA-C	-6.05	1.43	1.52
1	gW	87	HIS	ND1-CE1	6.05	1.38	1.32
1	hz	49	PRO	C-N	6.05	1.41	1.33
1	iR	150	ILE	CA-CB	6.05	1.64	1.54
1	iZ	106	GLY	C-N	6.05	1.41	1.33
1	jd	40	PHE	N-CA	-6.05	1.39	1.46
1	jE	37	ILE	CA-CB	6.05	1.57	1.54
1	ke	88	ALA	C-N	6.05	1.42	1.33
1	kl	11	VAL	CA-C	-6.05	1.45	1.52
1	kl	87	HIS	ND1-CE1	6.05	1.38	1.32
1	kq	120	HIS	ND1-CE1	6.05	1.38	1.32
1	kY	120	HIS	ND1-CE1	6.05	1.38	1.32
1	2h	91	ILE	CA-C	6.05	1.60	1.52
1	3j	154	ARG	CD-NE	6.05	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3n	64	ALA	C-N	6.05	1.42	1.34
1	3B	165	VAL	CA-C	-6.05	1.45	1.52
1	3D	11	VAL	N-CA	-6.05	1.38	1.46
1	4n	58	THR	C-O	-6.05	1.16	1.24
1	4p	166	ASP	C-N	6.05	1.42	1.34
1	4F	13	GLN	N-CA	6.05	1.53	1.45
1	5i	214	MET	CA-CB	6.05	1.63	1.53
1	5I	126	VAL	C-N	6.05	1.41	1.33
1	6z	159	GLU	CA-CB	6.05	1.61	1.53
1	6C	213	GLU	N-CA	-6.05	1.38	1.46
1	73	211	LEU	C-N	6.05	1.42	1.34
1	7n	116	GLY	CA-C	-6.05	1.45	1.52
1	7v	147	PRO	CA-CB	6.05	1.61	1.53
1	7x	213	GLU	CA-C	-6.05	1.45	1.52
1	7B	71	GLU	CA-CB	6.05	1.62	1.53
1	7V	56	LEU	CA-C	6.05	1.60	1.52
1	81	160	PRO	CA-C	-6.05	1.43	1.52
1	8U	99	PRO	C-O	6.05	1.30	1.23
1	9B	95	GLN	N-CA	6.05	1.53	1.46
1	9C	24	VAL	CA-CB	6.05	1.61	1.54
1	9D	15	ILE	CA-C	6.05	1.60	1.52
1	9J	93	PRO	N-CA	-6.05	1.39	1.47
1	ai	84	HIS	CD2-NE2	6.05	1.44	1.37
1	az	117	TRP	NE1-CE2	-6.05	1.30	1.37
1	aD	84	HIS	ND1-CE1	6.05	1.38	1.32
1	aL	149	SER	CA-CB	6.05	1.63	1.53
1	bL	32	PHE	C-N	6.05	1.40	1.33
1	cc	221	VAL	C-O	-6.05	1.17	1.24
1	cA	97	ARG	CD-NE	6.05	1.54	1.46
1	d2	62	HIS	N-CA	-6.05	1.38	1.46
1	d7	225	GLY	C-N	6.05	1.41	1.33
1	da	160	PRO	CA-C	6.05	1.60	1.52
1	du	3	VAL	CA-CB	-6.05	1.46	1.54
1	dV	76	GLU	C-N	6.05	1.41	1.33
1	ep	128	GLU	N-CA	-6.05	1.39	1.46
1	es	23	TRP	CA-CB	6.05	1.62	1.53
1	ew	187	GLU	CA-C	-6.05	1.44	1.52
1	eT	69	LEU	CA-C	6.05	1.60	1.52
1	fB	130	TYR	CE1-CZ	6.05	1.52	1.38
1	g7	128	GLU	CA-CB	6.05	1.62	1.53
1	n	134	ILE	C-N	6.05	1.41	1.33
1	u	8	GLY	N-CA	6.05	1.54	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	162	ARG	CA-CB	6.05	1.62	1.53
1	7	12	HIS	ND1-CE1	6.05	1.38	1.32
1	hc	230	VAL	N-CA	6.05	1.53	1.46
1	1J	169	TYR	CA-CB	6.05	1.63	1.53
1	hL	26	VAL	N-CA	-6.05	1.39	1.46
1	1P	218	CYS	CA-C	-6.05	1.45	1.52
1	iq	212	GLU	CA-C	6.05	1.60	1.52
1	iP	7	GLN	CA-C	-6.05	1.45	1.52
1	jf	28	GLU	N-CA	6.05	1.53	1.46
1	jG	37	ILE	CA-C	6.05	1.57	1.52
1	kp	43	LEU	CA-CB	6.05	1.64	1.53
1	kF	10	MET	N-CA	-6.05	1.38	1.46
1	lb	219	GLN	CA-CB	6.05	1.63	1.53
1	2i	228	ALA	C-N	6.05	1.41	1.33
1	2J	33	SER	CA-C	6.05	1.60	1.52
1	2S	194	ALA	C-O	-6.05	1.16	1.24
1	3p	137	GLY	CA-C	6.05	1.58	1.52
1	3u	33	SER	CA-C	6.05	1.58	1.52
1	3A	38	PRO	C-N	6.05	1.41	1.33
1	3L	125	PRO	CA-CB	6.05	1.60	1.53
1	41	108	THR	CA-CB	6.05	1.61	1.53
1	4j	177	ALA	N-CA	-6.05	1.38	1.46
1	5z	79	GLU	CA-C	-6.05	1.44	1.52
1	6K	72	THR	C-O	6.05	1.31	1.24
1	74	97	ARG	NE-CZ	6.05	1.39	1.33
1	8Z	201	ILE	C-N	6.05	1.41	1.33
1	97	101	GLY	N-CA	6.05	1.54	1.45
1	9d	45	GLU	C-N	6.05	1.41	1.33
1	9J	84	HIS	ND1-CE1	6.05	1.38	1.32
1	aU	134	ILE	C-N	6.05	1.41	1.33
1	bz	91	ILE	CA-C	-6.05	1.44	1.52
1	ci	132	ARG	CD-NE	6.05	1.54	1.46
1	2	22	ALA	C-N	6.05	1.41	1.33
1	gc	170	LYS	CA-C	6.05	1.60	1.52
1	gg	205	LEU	N-CA	6.05	1.53	1.46
1	gI	108	THR	C-N	6.05	1.41	1.33
1	gP	6	LEU	CA-CB	6.05	1.62	1.53
1	h3	123	PRO	C-N	6.05	1.40	1.33
1	hM	215	MET	CA-C	-6.05	1.45	1.52
1	hP	142	VAL	CA-C	-6.05	1.45	1.52
1	hU	168	PHE	CA-C	6.05	1.60	1.52
1	ik	50	GLN	CA-C	6.05	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1R	87	HIS	N-CA	6.05	1.53	1.46
1	jP	111	LEU	C-N	6.05	1.41	1.33
1	22	91	ILE	CA-CB	6.05	1.60	1.54
1	kG	167	ARG	CA-CB	6.05	1.63	1.53
1	25	130	TYR	C-O	-6.05	1.17	1.24
1	lB	170	LYS	C-O	-6.05	1.17	1.24
1	lN	136	LEU	CA-C	6.05	1.60	1.52
1	2g	200	THR	CA-C	-6.05	1.45	1.52
1	3r	36	VAL	CA-C	6.05	1.59	1.52
1	3H	42	ALA	CA-C	-6.05	1.45	1.52
1	3R	108	THR	N-CA	-6.05	1.38	1.46
1	4G	127	GLY	CA-C	-6.05	1.45	1.52
1	4P	80	TRP	CA-C	6.05	1.60	1.52
1	4P	226	HIS	N-CA	6.05	1.53	1.45
1	5a	143	ARG	CZ-NH2	-6.05	1.25	1.33
1	5I	24	VAL	CA-C	-6.05	1.45	1.52
1	5P	192	GLN	CA-C	-6.05	1.45	1.52
1	8g	223	GLY	C-N	-6.05	1.27	1.34
1	8o	70	LYS	N-CA	-6.05	1.39	1.46
1	8W	223	GLY	N-CA	6.05	1.52	1.44
1	9l	63	GLN	CA-C	-6.05	1.45	1.52
1	9p	71	GLU	CA-C	6.05	1.60	1.52
1	9V	84	HIS	CA-CB	6.05	1.59	1.53
1	a3	62	HIS	CA-CB	6.05	1.62	1.53
1	ai	153	ILE	CB-CG1	6.05	1.65	1.53
1	aD	62	HIS	CE1-NE2	6.05	1.38	1.32
1	aN	189	LEU	CA-C	-6.05	1.44	1.52
1	14	164	TYR	CA-CB	6.05	1.62	1.53
1	aW	184	TRP	CA-C	6.05	1.60	1.52
1	aZ	5	ASN	CA-CB	6.05	1.63	1.53
1	bF	170	LYS	CA-CB	6.05	1.62	1.53
1	c5	86	VAL	CA-CB	-6.05	1.46	1.53
1	cJ	47	ALA	CA-C	-6.05	1.45	1.52
1	dm	125	PRO	CA-CB	6.05	1.57	1.53
1	dv	216	THR	CA-C	6.05	1.61	1.52
1	dJ	104	ILE	C-O	-6.05	1.17	1.24
1	eL	52	LEU	CA-CB	-6.05	1.44	1.53
1	eQ	223	GLY	CA-C	6.05	1.60	1.51
1	eU	106	GLY	CA-C	-6.05	1.43	1.51
1	f4	85	PRO	CA-C	6.05	1.60	1.52
1	fa	65	ALA	C-O	-6.05	1.17	1.24
1	fl	125	PRO	CA-C	6.05	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fA	144	MET	C-N	6.05	1.41	1.33
1	1y	59	VAL	C-N	6.05	1.42	1.33
1	fE	130	TYR	CA-CB	6.05	1.62	1.53
1	fF	226	HIS	CB-CG	6.05	1.58	1.50
1	i1	101	GLY	N-CA	6.04	1.53	1.45
1	ij	67	GLN	CA-C	6.04	1.60	1.52
1	iS	23	TRP	N-CA	6.04	1.53	1.46
1	1T	202	LEU	C-N	6.04	1.42	1.33
1	jZ	25	LYS	C-N	6.04	1.41	1.34
1	kp	77	ALA	CA-C	-6.04	1.45	1.52
1	lP	218	CYS	CA-CB	6.04	1.62	1.53
1	2h	3	VAL	CA-C	-6.04	1.45	1.52
1	2l	32	PHE	CA-CB	6.04	1.61	1.53
1	2s	211	LEU	CA-CB	6.04	1.62	1.53
1	2u	146	SER	C-N	6.04	1.41	1.33
1	3e	32	PHE	N-CA	-6.04	1.39	1.46
1	3o	208	ALA	CA-C	-6.04	1.43	1.52
1	3M	12	HIS	CA-C	-6.04	1.44	1.52
1	5p	13	GLN	C-N	6.04	1.41	1.33
1	5A	168	PHE	N-CA	-6.04	1.39	1.46
1	5Z	143	ARG	C-N	6.04	1.41	1.33
1	7b	119	THR	CA-CB	6.04	1.64	1.53
1	9k	61	GLY	C-N	6.04	1.42	1.33
1	9x	175	GLU	N-CA	-6.04	1.38	1.46
1	aL	91	ILE	C-O	-6.04	1.17	1.23
1	cp	55	MET	CA-C	-6.04	1.45	1.52
1	cH	155	GLN	CA-C	-6.04	1.45	1.52
1	d3	66	MET	N-CA	6.04	1.53	1.46
1	d7	79	GLU	CA-C	-6.04	1.45	1.52
1	et	144	MET	C-N	6.04	1.40	1.33
1	eY	99	PRO	CA-C	6.04	1.59	1.52
1	fA	205	LEU	C-N	6.04	1.42	1.33
1	gg	143	ARG	C-N	6.04	1.41	1.33
1	gB	12	HIS	CA-CB	6.04	1.62	1.53
1	hj	211	LEU	CA-CB	6.04	1.64	1.53
1	hx	138	LEU	CA-CB	6.04	1.62	1.53
1	hN	118	MET	CA-C	6.04	1.61	1.52
1	hO	223	GLY	N-CA	6.04	1.52	1.44
1	ii	152	ASP	C-N	6.04	1.39	1.33
1	ij	91	ILE	N-CA	6.04	1.53	1.46
1	iS	51	ASP	CA-CB	6.04	1.62	1.53
1	j6	38	PRO	C-O	-6.04	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jm	208	ALA	C-N	6.04	1.41	1.33
1	kq	164	TYR	C-N	6.04	1.41	1.33
1	lp	121	ASN	CA-C	6.04	1.60	1.53
1	lA	130	TYR	C-N	6.04	1.41	1.33
1	2m	173	ARG	CZ-NH2	-6.04	1.25	1.33
1	2w	124	ILE	CA-CB	-6.04	1.47	1.53
1	2T	189	LEU	CA-CB	6.04	1.62	1.53
1	2X	186	THR	C-N	6.04	1.41	1.33
1	31	42	ALA	C-N	6.04	1.42	1.34
1	3G	74	ASN	CA-CB	6.04	1.62	1.53
1	4z	78	ALA	N-CA	-6.04	1.39	1.46
1	4C	144	MET	CA-C	-6.04	1.45	1.52
1	5v	52	LEU	N-CA	-6.04	1.39	1.46
1	5v	87	HIS	CE1-NE2	6.04	1.38	1.32
1	5P	212	GLU	C-N	6.04	1.41	1.33
1	6q	54	THR	CA-C	6.04	1.60	1.52
1	6t	132	ARG	N-CA	-6.04	1.39	1.46
1	6u	196	PRO	CA-CB	-6.04	1.44	1.53
1	6Z	1	PRO	N-CA	6.04	1.56	1.47
1	78	42	ALA	C-N	6.04	1.41	1.33
1	7W	111	LEU	C-N	6.04	1.41	1.33
1	8w	109	SER	CA-C	-6.04	1.45	1.52
1	8z	128	GLU	C-N	6.04	1.41	1.33
1	8G	89	GLY	CA-C	6.04	1.60	1.51
1	8R	12	HIS	ND1-CE1	6.04	1.38	1.32
1	9o	52	LEU	N-CA	6.04	1.53	1.46
1	9r	167	ARG	CD-NE	6.04	1.54	1.46
1	a1	104	ILE	C-N	6.04	1.42	1.34
1	a9	53	ASN	CA-C	6.04	1.60	1.52
1	an	10	MET	C-N	6.04	1.41	1.33
1	aI	126	VAL	CA-C	6.04	1.60	1.52
1	aM	111	LEU	CA-C	-6.04	1.45	1.52
1	b9	33	SER	C-N	-6.04	1.28	1.34
1	br	21	ASN	CA-CB	6.04	1.62	1.53
1	1a	191	VAL	N-CA	-6.04	1.39	1.46
1	d3	189	LEU	CA-CB	6.04	1.62	1.53
1	db	101	GLY	N-CA	6.04	1.53	1.45
1	et	184	TRP	NE1-CE2	6.04	1.44	1.37
1	f6	112	GLN	CA-C	6.04	1.60	1.52
1	f8	130	TYR	CA-CB	6.04	1.62	1.53
1	f9	124	ILE	CA-CB	6.04	1.60	1.53
1	fn	37	ILE	CA-CB	6.04	1.57	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fH	216	THR	C-N	6.04	1.41	1.33
1	1z	103	ASP	CA-CB	-6.04	1.43	1.53
1	fO	147	PRO	CA-C	-6.04	1.45	1.52
1	fP	198	CYS	CA-C	-6.04	1.45	1.52
1	fR	96	MET	C-N	6.04	1.41	1.33
1	J	65	ALA	C-O	-6.04	1.17	1.24
1	M	65	ALA	CA-CB	-6.04	1.44	1.53
1	R	147	PRO	CA-CB	6.04	1.62	1.53
1	ge	173	ARG	N-CA	-6.04	1.38	1.46
1	gA	120	HIS	ND1-CE1	6.04	1.38	1.32
1	hK	79	GLU	CA-CB	6.04	1.62	1.53
1	hP	201	ILE	C-N	6.04	1.41	1.33
1	1N	86	VAL	N-CA	-6.04	1.39	1.46
1	1O	136	LEU	CA-CB	6.04	1.62	1.53
1	iB	72	THR	N-CA	6.04	1.53	1.46
1	jO	33	SER	CA-CB	6.04	1.61	1.53
1	jU	183	ASN	N-CA	6.04	1.53	1.46
1	20	228	ALA	CA-C	6.04	1.60	1.52
1	kh	201	ILE	C-N	6.04	1.41	1.33
1	kl	231	LEU	CA-CB	6.04	1.65	1.53
1	kx	110	THR	CA-C	6.04	1.61	1.53
1	kz	171	THR	C-O	-6.04	1.17	1.24
1	l2	163	ASP	CA-CB	6.04	1.62	1.53
1	lh	12	HIS	CE1-NE2	6.04	1.38	1.32
1	ls	190	LEU	N-CA	-6.04	1.39	1.46
1	lu	158	LYS	CA-CB	6.04	1.61	1.53
1	29	173	ARG	CA-CB	6.04	1.63	1.53
1	lJ	39	MET	CA-CB	6.04	1.62	1.53
1	2a	86	VAL	CA-CB	6.04	1.61	1.54
1	2m	154	ARG	CA-C	-6.04	1.45	1.52
1	3f	97	ARG	CA-C	6.04	1.60	1.52
1	3X	72	THR	CA-C	-6.04	1.45	1.52
1	3Z	50	GLN	N-CA	-6.04	1.39	1.46
1	49	71	GLU	CA-C	6.04	1.60	1.52
1	4e	208	ALA	N-CA	-6.04	1.38	1.46
1	4q	54	THR	CA-CB	6.04	1.62	1.53
1	4E	80	TRP	NE1-CE2	-6.04	1.30	1.37
1	4J	44	SER	CA-C	6.04	1.58	1.52
1	4K	110	THR	CA-CB	-6.04	1.43	1.53
1	4Z	187	GLU	C-N	6.04	1.41	1.33
1	6G	182	LYS	C-N	6.04	1.42	1.33
1	7k	173	ARG	C-N	6.04	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7n	144	MET	N-CA	-6.04	1.39	1.46
1	7n	212	GLU	CA-C	6.04	1.60	1.52
1	7v	70	LYS	N-CA	-6.04	1.39	1.46
1	8N	185	MET	N-CA	-6.04	1.39	1.46
1	95	211	LEU	CA-C	6.04	1.60	1.52
1	a0	84	HIS	CA-CB	6.04	1.60	1.53
1	10	73	ILE	CB-CG1	6.04	1.65	1.53
1	aX	111	LEU	C-N	6.04	1.41	1.33
1	b7	38	PRO	C-N	6.04	1.41	1.33
1	16	15	ILE	CA-CB	6.04	1.60	1.54
1	bd	166	ASP	N-CA	-6.04	1.39	1.46
1	bg	17	PRO	CA-C	6.04	1.61	1.52
1	bF	215	MET	N-CA	-6.04	1.38	1.46
1	bJ	226	HIS	CB-CG	6.04	1.58	1.50
1	c9	65	ALA	CA-CB	6.04	1.62	1.53
1	1f	189	LEU	CA-C	-6.04	1.45	1.52
1	cD	180	GLU	C-N	6.04	1.41	1.33
1	da	106	GLY	CA-C	6.04	1.60	1.51
1	dw	200	THR	CA-CB	6.04	1.62	1.53
1	ed	109	SER	CA-C	-6.04	1.45	1.52
1	f4	205	LEU	CA-C	6.04	1.60	1.52
1	f5	168	PHE	CA-CB	6.04	1.62	1.53
1	fl	16	SER	CA-C	6.04	1.59	1.53
1	fv	135	ILE	C-N	6.04	1.41	1.33
1	gc	216	THR	C-N	6.04	1.41	1.33
1	1I	162	ARG	CD-NE	6.04	1.54	1.46
1	hh	84	HIS	ND1-CE1	6.04	1.38	1.32
1	ir	135	ILE	CA-CB	6.04	1.62	1.54
1	iT	196	PRO	N-CD	-6.04	1.39	1.47
1	1Y	189	LEU	N-CA	-6.04	1.39	1.46
1	3W	67	GLN	CA-C	6.04	1.60	1.52
1	4c	162	ARG	C-N	6.04	1.41	1.33
1	4w	138	LEU	C-O	-6.04	1.17	1.24
1	5d	153	ILE	CA-CB	-6.04	1.47	1.54
1	5W	159	GLU	CA-C	-6.04	1.45	1.52
1	6u	226	HIS	CA-C	6.04	1.60	1.52
1	71	180	GLU	N-CA	-6.04	1.39	1.46
1	7j	73	ILE	C-O	-6.04	1.17	1.24
1	a1	175	GLU	C-N	6.04	1.41	1.33
1	ai	42	ALA	CA-C	-6.04	1.45	1.52
1	au	15	ILE	CA-CB	6.04	1.60	1.54
1	aD	9	GLN	CA-C	6.04	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aZ	111	LEU	N-CA	6.04	1.53	1.46
1	c4	127	GLY	C-N	-6.04	1.26	1.33
1	ce	208	ALA	N-CA	-6.04	1.38	1.46
1	cU	148	THR	N-CA	-6.04	1.38	1.46
1	dI	215	MET	C-O	-6.04	1.17	1.24
1	t	126	VAL	CA-C	-6.04	1.45	1.52
1	w	125	PRO	CA-CB	6.04	1.62	1.53
1	5	24	VAL	CA-CB	-6.04	1.47	1.54
1	gk	111	LEU	CA-C	6.04	1.60	1.52
1	gD	115	ILE	CA-CB	-6.04	1.46	1.54
1	gG	132	ARG	CD-NE	6.04	1.54	1.46
1	hd	206	GLY	CA-C	6.04	1.60	1.51
1	j1	90	PRO	N-CD	6.04	1.56	1.47
1	j8	84	HIS	CG-CD2	6.04	1.42	1.35
1	ji	107	THR	N-CA	-6.04	1.39	1.46
1	jE	82	ARG	N-CA	-6.04	1.39	1.46
1	jM	19	THR	CA-CB	6.04	1.62	1.53
1	k6	210	THR	CA-C	6.04	1.61	1.53
1	kb	5	ASN	C-N	6.04	1.42	1.33
1	kg	189	LEU	CA-CB	6.04	1.62	1.53
1	ki	221	VAL	CA-C	6.04	1.60	1.52
1	kN	172	LEU	CA-C	6.04	1.61	1.52
1	kW	24	VAL	CA-CB	-6.04	1.47	1.54
1	l9	125	PRO	CA-CB	6.04	1.60	1.53
1	l9	146	SER	CA-CB	6.04	1.61	1.53
1	lo	141	ILE	CA-CB	-6.04	1.47	1.54
1	lq	6	LEU	CA-C	-6.04	1.44	1.52
1	lA	189	LEU	C-N	6.04	1.41	1.33
1	lB	180	GLU	CA-CB	6.04	1.62	1.53
1	2h	133	TRP	CA-CB	6.04	1.62	1.53
1	2p	10	MET	CA-CB	6.04	1.63	1.53
1	2A	82	ARG	N-CA	6.04	1.54	1.46
1	2B	70	LYS	CA-C	-6.04	1.45	1.52
1	2V	90	PRO	CA-C	-6.04	1.45	1.52
1	3d	180	GLU	CA-CB	6.04	1.62	1.53
1	3F	56	LEU	C-N	6.04	1.41	1.33
1	4g	155	GLN	N-CA	-6.04	1.38	1.46
1	4g	221	VAL	CA-CB	6.04	1.62	1.54
1	4h	117	TRP	NE1-CE2	-6.04	1.30	1.37
1	5t	99	PRO	N-CA	6.04	1.54	1.47
1	5K	4	GLN	N-CA	-6.04	1.38	1.46
1	5O	141	ILE	CA-C	6.04	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7f	99	PRO	CA-CB	6.04	1.62	1.53
1	7m	185	MET	CA-CB	6.04	1.62	1.53
1	7Y	26	VAL	C-N	6.04	1.40	1.33
1	8m	131	LYS	C-N	6.04	1.41	1.33
1	8S	88	ALA	CA-C	6.04	1.60	1.52
1	9j	11	VAL	CA-CB	-6.04	1.47	1.53
1	9N	151	LEU	CA-CB	6.04	1.63	1.53
1	9Y	32	PHE	C-N	6.04	1.41	1.33
1	a3	162	ARG	CZ-NH1	-6.04	1.24	1.32
1	an	91	ILE	CA-CB	-6.04	1.47	1.54
1	13	171	THR	C-N	6.04	1.41	1.33
1	bq	118	MET	CA-CB	6.04	1.62	1.53
1	bH	84	HIS	CA-C	6.04	1.59	1.53
1	cA	12	HIS	CB-CG	-6.04	1.41	1.50
1	cI	202	LEU	CA-CB	6.04	1.62	1.53
1	cJ	219	GLN	CA-CB	6.04	1.62	1.53
1	dY	228	ALA	CA-C	6.04	1.60	1.52
1	eC	162	ARG	C-N	6.04	1.41	1.33
1	eM	161	PHE	C-N	6.04	1.41	1.33
1	f1	33	SER	CA-C	6.04	1.60	1.53
1	fa	109	SER	CA-C	6.04	1.59	1.52
1	fl	18	ARG	CA-CB	6.04	1.62	1.53
1	fl	165	VAL	C-N	6.04	1.41	1.33
1	fm	140	LYS	CA-CB	6.04	1.62	1.53
1	fo	162	ARG	CD-NE	6.04	1.54	1.46
1	fX	140	LYS	C-N	6.04	1.41	1.33
1	gZ	142	VAL	CA-CB	6.04	1.62	1.54
1	hf	189	LEU	CA-CB	6.04	1.62	1.53
1	iU	19	THR	CA-C	6.04	1.60	1.52
1	jQ	193	ASN	CA-C	6.04	1.60	1.52
1	ki	175	GLU	N-CA	-6.04	1.38	1.46
1	21	201	ILE	CA-CB	-6.04	1.47	1.54
1	22	230	VAL	CA-C	-6.04	1.45	1.52
1	kx	11	VAL	C-N	6.04	1.41	1.33
1	kF	184	TRP	N-CA	6.04	1.53	1.46
1	lQ	107	THR	C-N	6.04	1.41	1.33
1	3F	150	ILE	CA-CB	-6.04	1.45	1.54
1	52	53	ASN	CA-CB	6.04	1.62	1.53
1	5g	144	MET	CA-C	6.04	1.60	1.52
1	5n	151	LEU	CA-C	6.04	1.60	1.52
1	5N	200	THR	CA-C	-6.04	1.45	1.52
1	88	123	PRO	C-O	-6.04	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8D	228	ALA	N-CA	-6.04	1.39	1.46
1	9Q	143	ARG	CA-C	6.04	1.60	1.52
1	a9	110	THR	CA-CB	6.04	1.63	1.53
1	ab	177	ALA	CA-C	-6.04	1.45	1.52
1	bJ	121	ASN	CA-C	6.04	1.61	1.53
1	c9	128	GLU	CA-C	6.04	1.60	1.52
1	1k	156	GLY	N-CA	6.04	1.52	1.44
1	dY	87	HIS	ND1-CE1	6.04	1.38	1.32
1	e6	14	ALA	N-CA	-6.04	1.38	1.46
1	ep	49	PRO	CA-CB	6.04	1.62	1.53
1	fj	32	PHE	CA-CB	6.04	1.60	1.53
1	h4	88	ALA	CA-C	-6.04	1.45	1.52
1	hh	220	GLY	C-N	6.04	1.42	1.33
1	hv	92	GLU	CA-C	6.04	1.60	1.52
1	hI	226	HIS	CE1-NE2	-6.04	1.26	1.32
1	i5	12	HIS	ND1-CE1	6.04	1.38	1.32
1	ie	201	ILE	CA-CB	-6.04	1.47	1.54
1	ii	69	LEU	C-N	6.04	1.42	1.33
1	iB	221	VAL	C-N	6.04	1.42	1.33
1	jd	172	LEU	CA-C	-6.04	1.44	1.52
1	jo	162	ARG	CA-CB	6.04	1.63	1.53
1	jw	216	THR	N-CA	6.04	1.53	1.46
1	ka	132	ARG	C-O	-6.04	1.17	1.24
1	kf	96	MET	CA-CB	6.04	1.63	1.53
1	kh	175	GLU	C-O	-6.04	1.17	1.24
1	kW	183	ASN	CA-C	6.04	1.60	1.52
1	l4	26	VAL	C-N	6.04	1.41	1.33
1	2l	82	ARG	CA-CB	6.04	1.62	1.53
1	2N	226	HIS	ND1-CE1	6.04	1.38	1.32
1	3d	134	ILE	CA-CB	6.04	1.61	1.54
1	3x	195	ASN	CA-C	-6.04	1.46	1.53
1	3P	125	PRO	N-CD	-6.04	1.39	1.47
1	3V	134	ILE	CA-CB	6.04	1.61	1.54
1	48	87	HIS	CB-CG	6.04	1.58	1.50
1	5b	39	MET	N-CA	6.04	1.53	1.46
1	5D	115	ILE	C-N	6.04	1.42	1.33
1	5I	156	GLY	CA-C	-6.04	1.43	1.51
1	6h	164	TYR	CA-C	6.04	1.60	1.52
1	6u	95	GLN	CA-CB	6.04	1.64	1.53
1	6H	97	ARG	CD-NE	6.04	1.54	1.46
1	6O	222	GLY	N-CA	6.04	1.54	1.45
1	7r	13	GLN	C-N	6.04	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8H	230	VAL	CA-CB	6.04	1.62	1.54
1	8U	104	ILE	CB-CG1	6.04	1.65	1.53
1	9S	20	LEU	CA-CB	6.04	1.63	1.53
1	9S	99	PRO	C-N	6.04	1.41	1.33
1	9T	201	ILE	CA-CB	6.04	1.61	1.54
1	a5	226	HIS	CD2-NE2	6.04	1.44	1.37
1	a8	129	ILE	CA-C	-6.04	1.45	1.52
1	11	201	ILE	CA-C	6.04	1.60	1.52
1	aN	176	GLN	CA-C	6.04	1.60	1.53
1	bX	18	ARG	CD-NE	6.04	1.54	1.46
1	ck	103	ASP	CA-CB	6.04	1.62	1.53
1	1h	145	TYR	N-CA	-6.04	1.38	1.46
1	cV	40	PHE	C-N	6.04	1.41	1.33
1	e3	97	ARG	CA-C	-6.04	1.45	1.52
1	ew	1	PRO	N-CA	6.04	1.56	1.47
1	eL	113	GLU	C-N	6.04	1.41	1.33
1	fl	205	LEU	CA-CB	6.04	1.63	1.53
1	fY	15	ILE	CA-CB	-6.04	1.47	1.54
1	u	48	THR	C-N	-6.04	1.24	1.33
1	ge	73	ILE	N-CA	6.03	1.53	1.46
1	1C	120	HIS	ND1-CE1	6.03	1.38	1.32
1	gq	49	PRO	C-O	-6.03	1.16	1.24
1	hl	126	VAL	C-O	-6.03	1.17	1.24
1	hN	142	VAL	CA-CB	-6.03	1.47	1.54
1	i3	62	HIS	CB-CG	6.03	1.58	1.50
1	iU	124	ILE	CA-CB	-6.03	1.47	1.53
1	jB	43	LEU	CA-CB	6.03	1.64	1.53
1	jB	217	ALA	CA-CB	6.03	1.63	1.53
1	jH	127	GLY	CA-C	-6.03	1.45	1.52
1	k3	84	HIS	CB-CG	6.03	1.58	1.50
1	kd	32	PHE	C-N	6.03	1.45	1.33
1	ks	126	VAL	CA-C	6.03	1.60	1.52
1	l4	135	ILE	C-N	6.03	1.42	1.34
1	2c	162	ARG	N-CA	-6.03	1.39	1.46
1	2x	156	GLY	C-N	-6.03	1.25	1.34
1	2B	221	VAL	CA-CB	-6.03	1.46	1.54
1	3t	35	GLU	CA-CB	6.03	1.63	1.53
1	3A	50	GLN	CA-C	6.03	1.60	1.52
1	3O	76	GLU	CA-C	-6.03	1.45	1.52
1	4v	3	VAL	C-N	6.03	1.41	1.33
1	4x	67	GLN	C-N	6.03	1.41	1.33
1	4G	104	ILE	CA-CB	6.03	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4S	82	ARG	CD-NE	6.03	1.54	1.46
1	4T	221	VAL	CA-CB	6.03	1.64	1.54
1	5M	171	THR	CA-C	-6.03	1.45	1.52
1	5R	162	ARG	CA-CB	6.03	1.62	1.53
1	6c	198	CYS	CA-C	6.03	1.60	1.52
1	6M	134	ILE	N-CA	-6.03	1.39	1.46
1	6N	218	CYS	CA-CB	6.03	1.62	1.53
1	84	19	THR	N-CA	-6.03	1.38	1.46
1	8i	83	LEU	C-N	6.03	1.41	1.33
1	8M	177	ALA	CA-C	6.03	1.60	1.52
1	9a	56	LEU	CA-C	-6.03	1.45	1.52
1	at	32	PHE	CA-CB	6.03	1.60	1.52
1	aD	152	ASP	N-CA	6.03	1.53	1.46
1	14	219	GLN	C-O	-6.03	1.16	1.23
1	aU	200	THR	C-N	6.03	1.41	1.33
1	bL	208	ALA	CA-C	6.03	1.60	1.53
1	ca	154	ARG	CA-CB	6.03	1.66	1.53
1	ci	195	ASN	CA-CB	6.03	1.62	1.53
1	cm	210	THR	C-N	6.03	1.41	1.33
1	cq	99	PRO	N-CA	-6.03	1.39	1.47
1	cw	33	SER	CA-C	6.03	1.58	1.52
1	cF	182	LYS	CA-CB	6.03	1.62	1.53
1	cS	18	ARG	CA-C	6.03	1.60	1.52
1	cZ	3	VAL	CA-C	6.03	1.61	1.53
1	1j	7	GLN	CA-CB	6.03	1.63	1.53
1	1j	182	LYS	CA-C	6.03	1.60	1.52
1	dr	183	ASN	C-O	6.03	1.31	1.24
1	dG	2	ILE	C-N	6.03	1.42	1.33
1	eO	218	CYS	C-N	6.03	1.41	1.33
1	eR	51	ASP	CA-CB	6.03	1.62	1.53
1	fi	9	GLN	N-CA	-6.03	1.38	1.46
1	fO	167	ARG	N-CA	-6.03	1.39	1.46
1	g5	102	SER	CA-C	-6.03	1.45	1.52
1	p	126	VAL	N-CA	6.03	1.53	1.46
1	s	23	TRP	CA-CB	6.03	1.62	1.53
1	Q	34	PRO	CA-CB	6.03	1.62	1.53
1	6	34	PRO	CA-CB	6.03	1.62	1.53
1	gA	181	VAL	N-CA	-6.03	1.39	1.46
1	h2	80	TRP	CA-C	-6.03	1.45	1.52
1	hi	124	ILE	CA-CB	-6.03	1.47	1.53
1	ht	150	ILE	CA-C	6.03	1.60	1.52
1	hZ	66	MET	C-N	6.03	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ip	133	TRP	C-N	6.03	1.41	1.33
1	jg	11	VAL	CA-C	6.03	1.59	1.52
1	k7	186	THR	C-N	6.03	1.41	1.33
1	ks	200	THR	C-N	6.03	1.41	1.34
1	ku	87	HIS	ND1-CE1	6.03	1.38	1.32
1	kD	212	GLU	C-N	6.03	1.41	1.33
1	kE	3	VAL	CA-C	-6.03	1.45	1.52
1	l0	101	GLY	N-CA	6.03	1.53	1.45
1	lw	62	HIS	CA-C	6.03	1.60	1.53
1	lK	160	PRO	CA-C	-6.03	1.45	1.52
1	2j	139	ASN	C-O	-6.03	1.16	1.24
1	39	99	PRO	N-CA	6.03	1.53	1.47
1	3t	74	ASN	CA-C	6.03	1.60	1.52
1	4w	95	GLN	CA-C	-6.03	1.44	1.52
1	4x	39	MET	CA-C	6.03	1.60	1.52
1	6j	166	ASP	N-CA	-6.03	1.39	1.46
1	6I	129	ILE	C-O	-6.03	1.17	1.24
1	6L	221	VAL	CA-C	6.03	1.59	1.52
1	7c	167	ARG	NE-CZ	-6.03	1.26	1.33
1	8d	174	ALA	CA-C	6.03	1.60	1.52
1	8e	147	PRO	CA-CB	-6.03	1.45	1.53
1	8i	97	ARG	CA-CB	6.03	1.63	1.53
1	8k	152	ASP	CA-CB	6.03	1.64	1.53
1	8P	63	GLN	N-CA	-6.03	1.38	1.46
1	9O	116	GLY	CA-C	-6.03	1.44	1.52
1	9S	128	GLU	C-O	-6.03	1.17	1.24
1	10	52	LEU	CA-CB	6.03	1.62	1.53
1	bw	150	ILE	CA-C	-6.03	1.44	1.52
1	ca	116	GLY	CA-C	-6.03	1.45	1.52
1	cz	82	ARG	CA-C	6.03	1.60	1.52
1	1n	105	ALA	C-N	6.03	1.41	1.33
1	eO	149	SER	CA-C	-6.03	1.45	1.52
1	z	36	VAL	CA-C	-6.03	1.44	1.52
1	W	17	PRO	CA-CB	6.03	1.62	1.53
1	1C	167	ARG	CD-NE	6.03	1.54	1.46
1	1F	145	TYR	CA-C	6.03	1.60	1.52
1	hf	41	SER	CA-CB	6.03	1.62	1.53
1	hI	224	PRO	C-N	6.03	1.42	1.33
1	hV	67	GLN	C-N	6.03	1.41	1.33
1	hW	156	GLY	C-N	6.03	1.41	1.34
1	i5	140	LYS	CA-CB	6.03	1.62	1.53
1	j2	180	GLU	CA-CB	6.03	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jI	66	MET	C-N	6.03	1.41	1.33
1	jK	83	LEU	CA-CB	6.03	1.63	1.53
1	jQ	88	ALA	C-N	6.03	1.42	1.33
1	jV	77	ALA	C-N	6.03	1.41	1.33
1	k8	167	ARG	CD-NE	6.03	1.54	1.46
1	kf	142	VAL	CA-CB	6.03	1.62	1.54
1	kC	224	PRO	C-N	6.03	1.42	1.33
1	lA	32	PHE	CA-C	-6.03	1.45	1.53
1	2F	153	ILE	C-O	-6.03	1.16	1.23
1	2V	153	ILE	C-O	-6.03	1.17	1.24
1	3d	35	GLU	N-CA	-6.03	1.38	1.46
1	3A	23	TRP	CA-C	-6.03	1.45	1.52
1	4x	20	LEU	CA-CB	6.03	1.62	1.53
1	4Q	153	ILE	CA-C	6.03	1.60	1.52
1	5c	183	ASN	CA-CB	6.03	1.62	1.53
1	5e	99	PRO	N-CD	-6.03	1.39	1.47
1	5t	226	HIS	ND1-CE1	6.03	1.38	1.32
1	5u	218	CYS	CA-CB	6.03	1.62	1.53
1	5C	47	ALA	CA-CB	6.03	1.61	1.53
1	5L	24	VAL	N-CA	6.03	1.53	1.46
1	5N	35	GLU	C-N	6.03	1.41	1.33
1	6q	90	PRO	N-CD	-6.03	1.39	1.47
1	6G	162	ARG	C-N	6.03	1.42	1.33
1	6Q	125	PRO	CA-C	-6.03	1.43	1.52
1	6T	178	SER	CA-CB	6.03	1.63	1.53
1	73	40	PHE	CA-CB	6.03	1.62	1.53
1	7g	92	GLU	CA-C	6.03	1.59	1.53
1	7w	219	GLN	C-N	6.03	1.41	1.33
1	8e	127	GLY	N-CA	6.03	1.53	1.45
1	8F	5	ASN	C-N	6.03	1.41	1.33
1	8Q	18	ARG	CA-C	6.03	1.60	1.52
1	9C	183	ASN	N-CA	6.03	1.53	1.46
1	a3	141	ILE	CA-CB	6.03	1.62	1.54
1	ar	145	TYR	CA-CB	6.03	1.61	1.53
1	12	155	GLN	CA-CB	6.03	1.62	1.53
1	ay	75	GLU	C-N	6.03	1.41	1.33
1	aX	4	GLN	C-N	6.03	1.41	1.33
1	bH	118	MET	C-N	6.03	1.41	1.33
1	c3	99	PRO	C-N	6.03	1.42	1.33
1	cd	210	THR	C-N	6.03	1.42	1.33
1	cz	21	ASN	CA-CB	6.03	1.62	1.53
1	cW	15	ILE	CA-CB	-6.03	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d4	128	GLU	CA-C	-6.03	1.45	1.52
1	dr	137	GLY	CA-C	-6.03	1.44	1.51
1	eb	173	ARG	CD-NE	6.03	1.54	1.46
1	eL	212	GLU	CA-CB	6.03	1.62	1.53
1	1t	18	ARG	C-N	6.03	1.42	1.33
1	1u	146	SER	CA-C	-6.03	1.45	1.52
1	ff	11	VAL	N-CA	-6.03	1.38	1.46
1	fg	62	HIS	CE1-NE2	6.03	1.38	1.32
1	0	163	ASP	N-CA	6.03	1.53	1.46
1	B	159	GLU	C-N	6.03	1.41	1.33
1	D	134	ILE	CA-C	-6.03	1.43	1.52
1	X	6	LEU	C-N	6.03	1.41	1.33
1	hb	143	ARG	N-CA	-6.03	1.39	1.46
1	hf	133	TRP	CA-C	6.03	1.60	1.52
1	1I	43	LEU	CA-CB	6.03	1.62	1.53
1	hz	1	PRO	N-CA	6.03	1.56	1.47
1	jE	26	VAL	N-CA	-6.03	1.39	1.46
1	jL	30	LYS	CA-C	6.03	1.60	1.52
1	k3	200	THR	CA-C	6.03	1.60	1.52
1	kL	134	ILE	N-CA	-6.03	1.39	1.46
1	lg	143	ARG	C-N	6.03	1.41	1.33
1	3a	189	LEU	CA-C	6.03	1.61	1.52
1	4n	200	THR	CA-C	6.03	1.60	1.52
1	8b	64	ALA	C-N	6.03	1.41	1.33
1	8j	81	ASP	CA-C	6.03	1.60	1.52
1	8C	21	ASN	C-N	6.03	1.41	1.33
1	9g	75	GLU	CA-C	6.03	1.60	1.52
1	9k	36	VAL	C-N	6.03	1.42	1.33
1	9z	209	ALA	N-CA	-6.03	1.38	1.46
1	9P	195	ASN	CA-C	6.03	1.61	1.53
1	an	157	PRO	C-O	-6.03	1.17	1.24
1	aJ	131	LYS	N-CA	-6.03	1.39	1.46
1	b9	96	MET	N-CA	-6.03	1.38	1.46
1	bH	135	ILE	CA-CB	6.03	1.62	1.54
1	bX	154	ARG	CD-NE	6.03	1.54	1.46
1	c5	36	VAL	CA-C	6.03	1.60	1.52
1	cg	9	GLN	C-O	-6.03	1.15	1.24
1	cj	74	ASN	N-CA	-6.03	1.39	1.46
1	1h	152	ASP	N-CA	-6.03	1.39	1.46
1	di	67	GLN	CA-C	6.03	1.60	1.52
1	ef	131	LYS	CA-C	6.03	1.60	1.52
1	eH	203	LYS	CA-C	6.03	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fn	112	GLN	N-CA	-6.03	1.39	1.46
1	fM	75	GLU	N-CA	-6.03	1.39	1.46
1	2	178	SER	CA-C	6.03	1.60	1.52
1	N	85	PRO	N-CD	-6.03	1.39	1.47
1	g9	44	SER	CA-CB	6.03	1.61	1.53
1	g9	164	TYR	N-CA	-6.03	1.39	1.46
1	1F	42	ALA	CA-CB	6.03	1.62	1.53
1	gT	101	GLY	C-N	6.03	1.41	1.33
1	ha	112	GLN	N-CA	-6.03	1.39	1.46
1	hk	51	ASP	C-O	-6.03	1.17	1.24
1	hJ	161	PHE	CA-C	6.03	1.60	1.52
1	hO	196	PRO	N-CD	6.03	1.56	1.47
1	i2	203	LYS	CA-C	-6.03	1.45	1.52
1	i4	148	THR	C-N	6.03	1.42	1.33
1	in	197	ASP	CA-C	-6.03	1.45	1.52
1	iK	48	THR	CA-C	6.03	1.60	1.52
1	j2	18	ARG	C-N	6.03	1.41	1.33
1	j9	181	VAL	CA-CB	-6.03	1.47	1.54
1	1U	224	PRO	C-N	6.03	1.42	1.33
1	jg	115	ILE	CA-CB	-6.03	1.47	1.54
1	jq	124	ILE	N-CA	6.03	1.51	1.46
1	jH	97	ARG	CD-NE	6.03	1.54	1.46
1	jM	66	MET	CA-C	6.03	1.60	1.52
1	20	27	VAL	N-CA	6.03	1.54	1.46
1	l9	226	HIS	CA-CB	6.03	1.63	1.53
1	lq	42	ALA	CA-CB	6.03	1.62	1.53
1	ly	230	VAL	CA-CB	-6.03	1.46	1.54
1	lD	124	ILE	N-CA	-6.03	1.41	1.46
1	2h	59	VAL	C-N	6.03	1.42	1.33
1	2w	194	ALA	CA-CB	6.03	1.62	1.53
1	2X	45	GLU	CA-C	6.03	1.60	1.52
1	41	84	HIS	CA-C	6.03	1.60	1.52
1	4H	87	HIS	CE1-NE2	-6.03	1.26	1.32
1	57	69	LEU	CA-CB	6.03	1.62	1.53
1	5J	220	GLY	C-N	6.03	1.40	1.33
1	5K	141	ILE	N-CA	-6.03	1.38	1.46
1	5X	173	ARG	C-N	6.03	1.41	1.33
1	6e	177	ALA	CA-C	6.03	1.60	1.52
1	6k	219	GLN	CA-C	6.03	1.60	1.52
1	6q	11	VAL	C-N	6.03	1.41	1.33
1	6A	77	ALA	CA-CB	6.03	1.62	1.53
1	6Q	58	THR	CA-CB	6.03	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7S	189	LEU	CA-C	-6.03	1.45	1.52
1	7U	164	TYR	C-N	6.03	1.41	1.33
1	8P	86	VAL	N-CA	6.03	1.53	1.46
1	9t	226	HIS	ND1-CE1	6.03	1.38	1.32
1	9M	129	ILE	N-CA	-6.03	1.39	1.46
1	ah	116	GLY	CA-C	6.03	1.58	1.52
1	ah	187	GLU	N-CA	-6.03	1.38	1.46
1	an	58	THR	N-CA	6.03	1.54	1.46
1	ao	221	VAL	CA-CB	-6.03	1.47	1.54
1	aT	167	ARG	CD-NE	6.03	1.54	1.46
1	bf	161	PHE	CA-CB	6.03	1.62	1.53
1	17	27	VAL	CA-C	-6.03	1.45	1.52
1	bu	33	SER	CA-C	-6.03	1.46	1.52
1	bA	112	GLN	CA-CB	6.03	1.63	1.53
1	bZ	159	GLU	CA-CB	6.03	1.62	1.53
1	cG	32	PHE	CA-C	6.03	1.60	1.52
1	cM	77	ALA	CA-CB	6.03	1.62	1.53
1	1h	124	ILE	N-CA	6.03	1.52	1.46
1	cY	19	THR	CA-C	-6.03	1.45	1.52
1	d4	154	ARG	N-CA	6.03	1.53	1.45
1	da	12	HIS	CA-CB	6.03	1.61	1.53
1	dv	101	GLY	CA-C	-6.03	1.45	1.52
1	dE	110	THR	CA-C	-6.03	1.45	1.52
1	ei	43	LEU	CA-CB	6.03	1.63	1.53
1	eW	216	THR	N-CA	6.03	1.54	1.46
1	f3	199	LYS	C-N	6.03	1.41	1.33
1	ff	43	LEU	CA-CB	6.03	1.62	1.53
1	fh	16	SER	CA-CB	6.03	1.62	1.53
1	fk	84	HIS	CD2-NE2	6.03	1.44	1.37
1	fm	200	THR	C-N	6.03	1.41	1.33
1	fp	115	ILE	CA-C	-6.03	1.45	1.52
1	fR	60	GLY	CA-C	-6.03	1.46	1.52
1	z	122	PRO	CA-C	-6.03	1.40	1.52
1	8	220	GLY	C-N	6.03	1.40	1.33
1	gV	142	VAL	C-N	6.03	1.42	1.34
1	1I	82	ARG	CA-C	6.03	1.60	1.52
1	hs	158	LYS	CA-CB	6.03	1.63	1.53
1	ia	204	ALA	CA-CB	6.03	1.62	1.53
1	iE	170	LYS	CA-CB	6.03	1.63	1.53
1	iV	198	CYS	C-N	6.03	1.42	1.34
1	iZ	198	CYS	CA-CB	6.03	1.62	1.53
1	j8	173	ARG	CA-CB	6.03	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jL	197	ASP	N-CA	-6.03	1.38	1.46
1	k6	226	HIS	CA-C	6.03	1.59	1.52
1	kh	90	PRO	CA-CB	6.03	1.60	1.54
1	kU	215	MET	CA-CB	6.03	1.63	1.53
1	2v	66	MET	C-N	6.03	1.41	1.33
1	2T	84	HIS	N-CA	-6.03	1.40	1.46
1	3l	72	THR	CA-C	-6.03	1.44	1.52
1	3E	64	ALA	C-N	6.03	1.41	1.33
1	3M	202	LEU	CA-C	6.03	1.60	1.52
1	3S	210	THR	N-CA	6.03	1.53	1.45
1	58	214	MET	C-N	6.03	1.42	1.33
1	5n	14	ALA	N-CA	6.03	1.53	1.45
1	65	136	LEU	N-CA	6.03	1.53	1.46
1	6I	134	ILE	CA-CB	6.03	1.61	1.54
1	7R	187	GLU	CA-C	6.03	1.60	1.52
1	7Y	134	ILE	N-CA	6.03	1.53	1.46
1	85	99	PRO	CA-C	6.03	1.59	1.52
1	8D	151	LEU	CA-CB	6.03	1.62	1.53
1	9i	185	MET	CA-C	-6.03	1.45	1.52
1	9k	58	THR	CA-C	6.03	1.61	1.52
1	9v	43	LEU	N-CA	6.03	1.54	1.46
1	9H	53	ASN	N-CA	-6.03	1.39	1.46
1	aU	10	MET	C-N	6.03	1.42	1.33
1	aY	152	ASP	CA-C	6.03	1.60	1.52
1	b7	71	GLU	C-N	6.03	1.41	1.33
1	bz	4	GLN	CA-CB	6.03	1.63	1.53
1	bE	65	ALA	N-CA	6.03	1.54	1.46
1	cl	72	THR	C-N	6.03	1.41	1.33
1	cm	45	GLU	CA-C	6.03	1.60	1.52
1	cn	108	THR	C-N	6.03	1.41	1.33
1	cE	101	GLY	N-CA	6.03	1.53	1.45
1	d0	12	HIS	CG-ND1	6.03	1.44	1.38
1	d6	154	ARG	CA-CB	6.03	1.63	1.53
1	1l	103	ASP	CA-C	-6.03	1.45	1.52
1	dI	171	THR	C-O	-6.03	1.17	1.24
1	em	165	VAL	N-CA	6.03	1.54	1.46
1	f0	10	MET	C-N	6.03	1.42	1.33
1	fT	195	ASN	C-O	6.03	1.30	1.23
1	0	167	ARG	CD-NE	6.03	1.54	1.46
1	a	202	LEU	N-CA	-6.03	1.39	1.46
1	y	199	LYS	N-CA	-6.03	1.39	1.46
1	U	49	PRO	N-CD	-6.03	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gd	116	GLY	CA-C	6.02	1.58	1.52
1	gx	53	ASN	C-N	6.02	1.41	1.33
1	h3	75	GLU	CA-CB	6.02	1.62	1.53
1	hf	82	ARG	CD-NE	6.02	1.54	1.46
1	hm	81	ASP	CA-C	6.02	1.60	1.52
1	i8	114	GLN	CA-CB	6.02	1.62	1.53
1	io	201	ILE	CA-CB	-6.02	1.47	1.54
1	iv	12	HIS	CB-CG	6.02	1.58	1.50
1	j3	35	GLU	CA-CB	6.02	1.63	1.53
1	3t	181	VAL	CA-C	-6.02	1.45	1.52
1	56	219	GLN	C-N	6.02	1.42	1.33
1	5Q	154	ARG	CD-NE	6.02	1.54	1.46
1	6G	3	VAL	CA-C	-6.02	1.46	1.52
1	7e	37	ILE	N-CA	-6.02	1.39	1.46
1	8v	57	ASN	CA-C	-6.02	1.44	1.52
1	12	45	GLU	CA-CB	6.02	1.63	1.53
1	aL	158	LYS	C-N	6.02	1.39	1.33
1	aV	157	PRO	C-O	6.02	1.31	1.24
1	d1	146	SER	CA-C	6.02	1.59	1.53
1	ea	13	GLN	C-N	6.02	1.41	1.33
1	1t	124	ILE	CA-C	6.02	1.58	1.53
1	eW	11	VAL	N-CA	6.02	1.53	1.46
1	fb	213	GLU	N-CA	6.02	1.53	1.46
1	fX	92	GLU	N-CA	-6.02	1.39	1.45
1	W	112	GLN	CA-CB	6.02	1.62	1.53
1	gv	221	VAL	C-N	6.02	1.42	1.33
1	hD	58	THR	N-CA	6.02	1.54	1.46
1	iz	175	GLU	C-N	6.02	1.41	1.33
1	iO	110	THR	CA-CB	6.02	1.63	1.53
1	j3	115	ILE	C-N	6.02	1.41	1.33
1	j5	86	VAL	CA-C	-6.02	1.44	1.52
1	ja	49	PRO	CA-CB	-6.02	1.44	1.53
1	ko	196	PRO	CA-CB	6.02	1.62	1.53
1	kC	133	TRP	CA-CB	6.02	1.62	1.53
1	kK	159	GLU	CA-C	6.02	1.59	1.52
1	lK	12	HIS	ND1-CE1	6.02	1.38	1.32
1	2v	21	ASN	C-N	6.02	1.41	1.33
1	2I	135	ILE	C-N	6.02	1.41	1.33
1	30	154	ARG	CA-C	-6.02	1.45	1.52
1	3L	54	THR	C-N	6.02	1.41	1.33
1	3W	215	MET	CA-C	6.02	1.60	1.52
1	4f	91	ILE	CA-CB	-6.02	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4J	17	PRO	C-N	6.02	1.41	1.33
1	4R	29	GLU	C-N	6.02	1.43	1.33
1	5F	222	GLY	N-CA	6.02	1.52	1.45
1	5I	105	ALA	C-N	6.02	1.41	1.33
1	6l	63	GLN	C-N	6.02	1.41	1.33
1	6t	84	HIS	CA-C	-6.02	1.45	1.52
1	6B	229	ARG	CD-NE	6.02	1.54	1.46
1	6H	187	GLU	N-CA	-6.02	1.38	1.46
1	7Z	159	GLU	C-N	-6.02	1.25	1.33
1	8O	53	ASN	CA-C	-6.02	1.45	1.52
1	8Q	54	THR	CA-CB	6.02	1.62	1.53
1	8U	84	HIS	ND1-CE1	6.02	1.38	1.32
1	95	7	GLN	CA-C	6.02	1.60	1.52
1	ag	11	VAL	CA-CB	-6.02	1.46	1.54
1	av	202	LEU	CA-CB	6.02	1.62	1.53
1	aB	160	PRO	CA-C	-6.02	1.45	1.52
1	bn	167	ARG	CZ-NH2	-6.02	1.25	1.33
1	c2	50	GLN	C-N	6.02	1.41	1.33
1	cn	4	GLN	N-CA	6.02	1.53	1.46
1	1h	107	THR	N-CA	6.02	1.53	1.46
1	dh	118	MET	N-CA	-6.02	1.39	1.46
1	dm	171	THR	CA-C	-6.02	1.45	1.52
1	eM	225	GLY	CA-C	6.02	1.59	1.52
1	1t	207	PRO	CA-CB	6.02	1.64	1.53
1	fd	170	LYS	CA-CB	6.02	1.62	1.53
1	fz	162	ARG	CA-C	6.02	1.60	1.52
1	c	58	THR	CA-CB	6.02	1.63	1.53
1	w	93	PRO	C-N	6.02	1.41	1.33
1	G	114	GLN	N-CA	-6.02	1.39	1.46
1	W	129	ILE	CA-C	6.02	1.60	1.52
1	gX	36	VAL	CA-C	6.02	1.60	1.52
1	h3	165	VAL	CA-C	6.02	1.60	1.52
1	hq	59	VAL	N-CA	6.02	1.54	1.46
1	hM	167	ARG	CD-NE	6.02	1.54	1.46
1	iP	182	LYS	C-N	6.02	1.42	1.33
1	iT	87	HIS	ND1-CE1	6.02	1.38	1.32
1	k7	93	PRO	CA-C	6.02	1.59	1.52
1	kK	84	HIS	CD2-NE2	6.02	1.44	1.37
1	kN	74	ASN	CA-CB	6.02	1.62	1.53
1	3v	38	PRO	C-N	6.02	1.42	1.33
1	5X	15	ILE	N-CA	6.02	1.53	1.46
1	6m	16	SER	CA-C	6.02	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6w	97	ARG	N-CA	-6.02	1.38	1.46
1	7g	38	PRO	C-N	6.02	1.41	1.33
1	7Q	42	ALA	N-CA	-6.02	1.39	1.46
1	8F	218	CYS	CA-CB	6.02	1.63	1.53
1	9b	155	GLN	CA-C	-6.02	1.45	1.52
1	9y	108	THR	C-O	6.02	1.31	1.23
1	aM	218	CYS	CA-C	-6.02	1.45	1.53
1	bR	206	GLY	N-CA	6.02	1.52	1.44
1	c1	224	PRO	CA-C	-6.02	1.45	1.52
1	cX	211	LEU	C-N	6.02	1.41	1.33
1	ek	1	PRO	CA-C	-6.02	1.40	1.52
1	eI	179	GLN	N-CA	-6.02	1.38	1.46
1	f0	46	GLY	N-CA	6.02	1.53	1.45
1	fj	54	THR	N-CA	6.02	1.53	1.46
1	fk	54	THR	CA-CB	6.02	1.62	1.53
1	fH	181	VAL	CA-CB	-6.02	1.47	1.54
1	1C	110	THR	CA-C	-6.02	1.45	1.53
1	1D	184	TRP	CA-C	6.02	1.60	1.52
1	hd	87	HIS	ND1-CE1	6.02	1.38	1.32
1	hj	144	MET	C-N	6.02	1.42	1.33
1	hk	72	THR	CA-C	-6.02	1.45	1.52
1	hs	21	ASN	N-CA	-6.02	1.39	1.46
1	i5	191	VAL	N-CA	-6.02	1.38	1.46
1	ip	133	TRP	NE1-CE2	6.02	1.44	1.37
1	j4	136	LEU	C-N	6.02	1.41	1.33
1	jp	158	LYS	N-CA	6.02	1.53	1.46
1	jQ	33	SER	C-N	-6.02	1.27	1.34
1	kC	18	ARG	CA-CB	6.02	1.62	1.53
1	l2	120	HIS	C-N	6.02	1.41	1.33
1	lv	95	GLN	CA-CB	6.02	1.62	1.53
1	2J	4	GLN	CA-C	-6.02	1.44	1.52
1	3x	204	ALA	CA-C	6.02	1.60	1.52
1	3U	49	PRO	C-N	6.02	1.42	1.33
1	4y	228	ALA	CA-C	6.02	1.60	1.52
1	4F	225	GLY	CA-C	-6.02	1.44	1.51
1	50	148	THR	C-N	6.02	1.42	1.33
1	5e	114	GLN	CA-C	-6.02	1.45	1.52
1	5H	123	PRO	C-N	6.02	1.38	1.33
1	5I	220	GLY	CA-C	6.02	1.59	1.51
1	6k	199	LYS	CA-CB	6.02	1.62	1.53
1	6B	196	PRO	CA-CB	-6.02	1.45	1.53
1	72	11	VAL	C-N	6.02	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7i	168	PHE	N-CA	-6.02	1.39	1.46
1	7V	53	ASN	CA-CB	6.02	1.62	1.53
1	8e	158	LYS	CA-CB	6.02	1.62	1.53
1	8V	95	GLN	CA-CB	6.02	1.62	1.53
1	9k	195	ASN	CA-CB	6.02	1.62	1.53
1	9m	80	TRP	CA-CB	6.02	1.62	1.53
1	9Z	162	ARG	CA-CB	6.02	1.62	1.53
1	a9	83	LEU	C-O	-6.02	1.16	1.24
1	an	34	PRO	N-CA	-6.02	1.39	1.47
1	av	37	ILE	CA-C	6.02	1.59	1.52
1	aH	125	PRO	CA-C	6.02	1.60	1.52
1	aO	62	HIS	CB-CG	-6.02	1.41	1.50
1	aO	74	ASN	CA-CB	6.02	1.62	1.53
1	aO	88	ALA	N-CA	-6.02	1.39	1.46
1	aQ	77	ALA	N-CA	-6.02	1.39	1.46
1	bj	227	LYS	CA-C	-6.02	1.45	1.52
1	c4	68	MET	CA-CB	6.02	1.62	1.53
1	1c	7	GLN	CA-C	-6.02	1.45	1.52
1	cd	80	TRP	N-CA	-6.02	1.39	1.46
1	cj	13	GLN	N-CA	-6.02	1.38	1.45
1	cL	33	SER	CA-CB	6.02	1.62	1.53
1	dX	100	ARG	CA-CB	6.02	1.61	1.53
1	ew	33	SER	CA-C	6.02	1.60	1.52
1	ey	176	GLN	CA-C	6.02	1.59	1.52
1	fQ	142	VAL	CA-C	6.02	1.60	1.52
1	fS	190	LEU	N-CA	6.02	1.53	1.46
1	j	174	ALA	C-N	6.02	1.41	1.33
1	gh	113	GLU	CA-C	-6.02	1.45	1.52
1	h0	120	HIS	ND1-CE1	6.02	1.38	1.32
1	h3	97	ARG	CA-C	6.02	1.59	1.52
1	hj	79	GLU	N-CA	-6.02	1.39	1.46
1	hR	172	LEU	CA-C	-6.02	1.45	1.52
1	1N	226	HIS	ND1-CE1	6.02	1.38	1.32
1	i5	60	GLY	CA-C	-6.02	1.43	1.51
1	ic	181	VAL	CA-CB	-6.02	1.47	1.54
1	if	36	VAL	C-N	6.02	1.40	1.33
1	kD	99	PRO	C-O	6.02	1.30	1.23
1	kE	13	GLN	N-CA	-6.02	1.38	1.45
1	lh	124	ILE	N-CA	6.02	1.50	1.46
1	lI	116	GLY	N-CA	6.02	1.53	1.45
1	lI	167	ARG	CD-NE	6.02	1.54	1.46
1	lI	223	GLY	CA-C	-6.02	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2g	80	TRP	NE1-CE2	-6.02	1.30	1.37
1	3D	175	GLU	C-N	6.02	1.41	1.33
1	3X	99	PRO	CA-C	6.02	1.60	1.52
1	43	61	GLY	CA-C	-6.02	1.44	1.52
1	47	34	PRO	CA-CB	-6.02	1.45	1.53
1	4F	24	VAL	CA-C	-6.02	1.45	1.52
1	4H	69	LEU	CA-CB	6.02	1.62	1.53
1	56	125	PRO	N-CA	6.02	1.55	1.47
1	58	148	THR	C-N	6.02	1.41	1.33
1	5f	129	ILE	C-N	6.02	1.41	1.33
1	5v	205	LEU	CA-CB	6.02	1.62	1.53
1	6L	229	ARG	N-CA	-6.02	1.38	1.46
1	6T	139	ASN	CA-C	6.02	1.60	1.52
1	70	63	GLN	C-O	-6.02	1.16	1.24
1	7n	149	SER	C-N	6.02	1.40	1.34
1	7E	9	GLN	CA-CB	6.02	1.62	1.53
1	8S	29	GLU	CA-CB	6.02	1.62	1.53
1	8X	32	PHE	CA-C	-6.02	1.45	1.52
1	9q	13	GLN	C-O	-6.02	1.17	1.23
1	9M	227	LYS	CA-C	-6.02	1.44	1.52
1	ad	217	ALA	CA-C	-6.02	1.44	1.52
1	14	72	THR	N-CA	6.02	1.53	1.46
1	b3	5	ASN	CA-CB	6.02	1.63	1.53
1	19	163	ASP	C-O	-6.02	1.17	1.24
1	c6	218	CYS	CA-CB	6.02	1.62	1.53
1	cb	50	GLN	CA-CB	6.02	1.62	1.53
1	cg	154	ARG	CA-C	6.02	1.59	1.52
1	1f	165	VAL	CA-C	-6.02	1.45	1.52
1	cN	39	MET	C-N	6.02	1.42	1.33
1	d0	214	MET	SD-CE	6.02	1.94	1.79
1	ej	18	ARG	CD-NE	6.02	1.54	1.46
1	eG	132	ARG	CD-NE	6.02	1.54	1.46
1	fp	189	LEU	CA-C	-6.02	1.44	1.52
1	fy	90	PRO	CA-C	6.02	1.59	1.52
1	d	85	PRO	N-CA	6.02	1.54	1.47
1	j	16	SER	CA-C	-6.02	1.46	1.53
1	J	64	ALA	C-O	-6.02	1.17	1.24
1	gH	83	LEU	CA-CB	6.02	1.62	1.53
1	h4	168	PHE	CA-CB	6.02	1.62	1.53
1	h4	194	ALA	CA-CB	-6.02	1.44	1.53
1	hv	175	GLU	C-N	6.02	1.42	1.33
1	hB	116	GLY	CA-C	-6.02	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	je	126	VAL	CA-C	6.02	1.60	1.52
1	jj	36	VAL	CA-C	-6.02	1.43	1.52
1	jL	59	VAL	C-N	6.02	1.42	1.33
1	20	26	VAL	CA-CB	-6.02	1.47	1.54
1	kC	104	ILE	CA-C	6.02	1.60	1.52
1	kE	175	GLU	CA-CB	6.02	1.62	1.53
1	3h	145	TYR	N-CA	-6.02	1.38	1.46
1	41	84	HIS	CB-CG	-6.02	1.41	1.50
1	50	74	ASN	CA-CB	6.02	1.62	1.53
1	5u	230	VAL	C-N	6.02	1.41	1.33
1	5x	209	ALA	N-CA	-6.02	1.37	1.45
1	6L	122	PRO	C-N	-6.02	1.26	1.33
1	6Q	14	ALA	CA-CB	6.02	1.63	1.53
1	7v	137	GLY	CA-C	-6.02	1.45	1.52
1	8j	80	TRP	C-N	6.02	1.41	1.33
1	8E	91	ILE	N-CA	6.02	1.53	1.46
1	9m	132	ARG	C-O	-6.02	1.17	1.24
1	9v	55	MET	CA-CB	6.02	1.62	1.53
1	9B	186	THR	C-N	6.02	1.41	1.33
1	9E	68	MET	CA-CB	6.02	1.62	1.53
1	aY	37	ILE	N-CA	-6.02	1.39	1.46
1	b7	121	ASN	CA-CB	6.02	1.60	1.53
1	17	214	MET	CA-CB	6.02	1.62	1.53
1	19	26	VAL	CA-C	6.02	1.60	1.52
1	bX	184	TRP	CA-CB	6.02	1.62	1.53
1	1c	31	ALA	C-O	-6.02	1.18	1.24
1	dy	83	LEU	CA-CB	6.02	1.63	1.53
1	dA	86	VAL	C-O	-6.02	1.17	1.24
1	eH	199	LYS	C-N	6.02	1.41	1.33
1	eT	50	GLN	CA-C	6.02	1.60	1.52
1	fD	12	HIS	C-N	6.02	1.41	1.33
1	fG	1	PRO	N-CD	6.02	1.56	1.47
1	U	32	PHE	CA-CB	6.02	1.61	1.53
1	gm	101	GLY	N-CA	6.01	1.53	1.45
1	gp	211	LEU	CA-CB	6.01	1.62	1.53
1	gs	12	HIS	CA-CB	6.01	1.62	1.53
1	hH	44	SER	N-CA	6.01	1.53	1.46
1	hZ	145	TYR	N-CA	6.01	1.53	1.46
1	ih	185	MET	C-N	6.01	1.42	1.33
1	iv	88	ALA	CA-C	-6.01	1.45	1.52
1	iA	62	HIS	CE1-NE2	6.01	1.38	1.32
1	ju	30	LYS	CA-C	6.01	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jZ	150	ILE	CA-C	-6.01	1.44	1.52
1	k8	37	ILE	C-O	-6.01	1.19	1.24
1	k9	144	MET	N-CA	6.01	1.53	1.46
1	kC	205	LEU	N-CA	6.01	1.53	1.46
1	lc	182	LYS	CA-CB	6.01	1.62	1.53
1	lg	132	ARG	N-CA	-6.01	1.39	1.46
1	lR	181	VAL	C-O	-6.01	1.17	1.24
1	2l	99	PRO	CA-C	-6.01	1.45	1.52
1	2y	62	HIS	CA-CB	6.01	1.62	1.53
1	2Q	75	GLU	C-N	6.01	1.42	1.33
1	2Z	115	ILE	N-CA	-6.01	1.38	1.46
1	3d	12	HIS	CD2-NE2	6.01	1.44	1.37
1	3w	154	ARG	CD-NE	6.01	1.54	1.46
1	3R	180	GLU	N-CA	6.01	1.53	1.46
1	49	165	VAL	C-N	6.01	1.41	1.33
1	4a	184	TRP	C-N	6.01	1.41	1.33
1	4o	200	THR	N-CA	6.01	1.53	1.46
1	4o	228	ALA	C-N	6.01	1.41	1.33
1	4M	226	HIS	CA-C	6.01	1.59	1.52
1	5G	207	PRO	CA-C	-6.01	1.43	1.52
1	5H	64	ALA	CA-CB	6.01	1.62	1.53
1	5W	57	ASN	CA-C	-6.01	1.45	1.52
1	6g	122	PRO	C-N	-6.01	1.25	1.33
1	72	45	GLU	CA-C	6.01	1.60	1.52
1	7g	58	THR	C-N	6.01	1.40	1.34
1	8D	121	ASN	CA-C	6.01	1.59	1.52
1	8G	198	CYS	CA-CB	6.01	1.63	1.53
1	9f	76	GLU	C-N	6.01	1.41	1.33
1	9g	99	PRO	N-CA	6.01	1.55	1.47
1	9n	173	ARG	CZ-NH2	-6.01	1.25	1.33
1	9G	31	ALA	C-N	6.01	1.42	1.33
1	9Q	109	SER	CA-C	-6.01	1.45	1.52
1	aO	82	ARG	CZ-NH2	-6.01	1.25	1.33
1	bd	68	MET	C-N	6.01	1.41	1.33
1	br	162	ARG	CD-NE	6.01	1.54	1.46
1	bu	155	GLN	CA-CB	6.01	1.61	1.53
1	bS	78	ALA	C-N	6.01	1.41	1.33
1	dy	223	GLY	C-N	6.01	1.41	1.33
1	e2	68	MET	C-N	6.01	1.41	1.33
1	e8	84	HIS	N-CA	6.01	1.53	1.46
1	ee	155	GLN	CA-CB	6.01	1.62	1.53
1	eI	133	TRP	C-N	6.01	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eJ	24	VAL	CA-CB	-6.01	1.47	1.54
1	eK	12	HIS	CA-CB	6.01	1.63	1.53
1	f9	7	GLN	N-CA	-6.01	1.38	1.45
1	fj	64	ALA	CA-C	6.01	1.60	1.52
1	fm	37	ILE	C-N	6.01	1.41	1.34
1	fm	160	PRO	CA-CB	6.01	1.61	1.53
1	fK	68	MET	C-N	6.01	1.41	1.33
1	fV	201	ILE	C-O	-6.01	1.17	1.24
1	4	12	HIS	CG-CD2	-6.01	1.29	1.35
1	X	86	VAL	N-CA	-6.01	1.39	1.46
1	gp	149	SER	CA-CB	6.01	1.62	1.53
1	hk	178	SER	CA-CB	6.01	1.63	1.53
1	k4	82	ARG	CD-NE	6.01	1.54	1.46
1	28	7	GLN	C-N	6.01	1.43	1.33
1	3i	138	LEU	CA-CB	6.01	1.62	1.53
1	3x	55	MET	C-N	6.01	1.42	1.33
1	3J	26	VAL	C-N	6.01	1.41	1.33
1	5m	3	VAL	CA-C	6.01	1.59	1.52
1	5O	131	LYS	CA-CB	6.01	1.63	1.53
1	5T	20	LEU	CA-C	6.01	1.60	1.52
1	65	200	THR	C-N	6.01	1.41	1.33
1	6L	203	LYS	N-CA	-6.01	1.39	1.46
1	7f	146	SER	CA-C	6.01	1.59	1.52
1	7r	82	ARG	CZ-NH1	-6.01	1.24	1.32
1	8I	154	ARG	CA-C	-6.01	1.45	1.52
1	bc	100	ARG	N-CA	-6.01	1.38	1.45
1	cn	226	HIS	CB-CG	-6.01	1.41	1.50
1	cU	36	VAL	C-N	6.01	1.40	1.33
1	do	229	ARG	CA-C	6.01	1.60	1.52
1	dR	141	ILE	N-CA	6.01	1.53	1.46
1	fn	144	MET	CA-C	-6.01	1.45	1.52
1	ft	181	VAL	N-CA	6.01	1.53	1.46
1	fG	87	HIS	ND1-CE1	6.01	1.38	1.32
1	fJ	84	HIS	CG-CD2	6.01	1.42	1.35
1	ga	56	LEU	CA-C	-6.01	1.45	1.52
1	gV	91	ILE	CB-CG1	6.01	1.65	1.53
1	h1	59	VAL	C-O	6.01	1.30	1.24
1	h7	219	GLN	N-CA	-6.01	1.38	1.46
1	1J	40	PHE	CA-CB	6.01	1.62	1.53
1	i0	205	LEU	C-N	6.01	1.42	1.33
1	i4	9	GLN	CA-CB	6.01	1.62	1.53
1	ik	29	GLU	CA-C	-6.01	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iP	76	GLU	CA-C	6.01	1.60	1.52
1	iT	75	GLU	CA-CB	6.01	1.62	1.53
1	iW	141	ILE	CA-C	6.01	1.60	1.52
1	j2	103	ASP	CA-CB	6.01	1.62	1.53
1	j6	33	SER	C-O	-6.01	1.16	1.24
1	jy	169	TYR	CA-CB	6.01	1.62	1.53
1	k9	100	ARG	CA-CB	6.01	1.62	1.53
1	l4	18	ARG	CD-NE	6.01	1.54	1.46
1	lg	202	LEU	CA-C	6.01	1.60	1.52
1	lB	107	THR	C-N	6.01	1.43	1.33
1	lH	107	THR	N-CA	6.01	1.53	1.46
1	lP	39	MET	N-CA	-6.01	1.39	1.46
1	2m	181	VAL	CA-CB	-6.01	1.47	1.54
1	2n	156	GLY	C-N	6.01	1.43	1.33
1	3i	226	HIS	CB-CG	6.01	1.58	1.50
1	3I	99	PRO	N-CA	-6.01	1.40	1.47
1	3Q	84	HIS	CE1-NE2	6.01	1.38	1.32
1	3T	7	GLN	C-N	6.01	1.41	1.34
1	45	85	PRO	C-N	6.01	1.41	1.33
1	47	3	VAL	C-N	6.01	1.42	1.33
1	49	14	ALA	CA-C	-6.01	1.45	1.52
1	4f	115	ILE	CA-CB	6.01	1.62	1.54
1	4l	35	GLU	CA-C	6.01	1.60	1.52
1	4C	226	HIS	CD2-NE2	6.01	1.44	1.37
1	54	229	ARG	CA-C	-6.01	1.44	1.52
1	5P	204	ALA	CA-CB	6.01	1.62	1.53
1	6k	6	LEU	N-CA	-6.01	1.39	1.46
1	7c	66	MET	N-CA	6.01	1.53	1.46
1	7m	45	GLU	N-CA	-6.01	1.39	1.46
1	7n	76	GLU	C-O	-6.01	1.17	1.24
1	7P	49	PRO	CA-C	-6.01	1.43	1.52
1	8k	8	GLY	CA-C	-6.01	1.46	1.52
1	8m	209	ALA	C-N	6.01	1.42	1.33
1	8w	40	PHE	N-CA	-6.01	1.39	1.46
1	9j	173	ARG	N-CA	-6.01	1.39	1.46
1	9t	12	HIS	N-CA	-6.01	1.38	1.46
1	av	95	GLN	CA-CB	6.01	1.60	1.53
1	aY	130	TYR	CA-CB	6.01	1.62	1.53
1	bB	39	MET	C-N	6.01	1.41	1.33
1	1e	24	VAL	N-CA	-6.01	1.39	1.46
1	cu	98	GLU	CA-C	6.01	1.60	1.53
1	cS	139	ASN	C-N	6.01	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	de	82	ARG	CD-NE	6.01	1.54	1.46
1	do	30	LYS	C-N	-6.01	1.25	1.33
1	ds	71	GLU	CA-C	6.01	1.60	1.52
1	dW	117	TRP	NE1-CE2	-6.01	1.30	1.37
1	e4	63	GLN	CA-C	6.01	1.60	1.52
1	en	21	ASN	CA-CB	6.01	1.62	1.53
1	es	37	ILE	C-N	6.01	1.41	1.34
1	ev	12	HIS	CG-CD2	6.01	1.42	1.35
1	ev	127	GLY	C-O	-6.01	1.16	1.23
1	eC	226	HIS	CA-C	-6.01	1.44	1.52
1	eE	199	LYS	C-N	6.01	1.41	1.33
1	fp	119	THR	C-N	6.01	1.41	1.33
1	fI	226	HIS	CG-CD2	6.01	1.42	1.35
1	fX	153	ILE	C-N	6.01	1.42	1.33
1	g4	63	GLN	C-N	6.01	1.42	1.34
1	f	110	THR	CA-C	6.01	1.59	1.52
1	g	217	ALA	CA-C	6.01	1.60	1.52
1	G	125	PRO	C-N	6.01	1.40	1.34
1	7	82	ARG	CD-NE	6.01	1.54	1.46
1	gc	79	GLU	CA-CB	6.01	1.62	1.53
1	go	210	THR	C-N	6.01	1.42	1.33
1	he	32	PHE	N-CA	-6.01	1.39	1.46
1	hR	31	ALA	N-CA	-6.01	1.36	1.47
1	ij	78	ALA	C-O	-6.01	1.17	1.24
1	iw	75	GLU	CA-CB	6.01	1.62	1.53
1	iC	3	VAL	N-CA	-6.01	1.39	1.46
1	j1	69	LEU	CA-C	6.01	1.60	1.52
1	jX	15	ILE	CA-CB	-6.01	1.46	1.54
1	jX	45	GLU	CA-C	-6.01	1.44	1.52
1	20	115	ILE	CA-C	-6.01	1.45	1.52
1	kN	48	THR	CA-CB	-6.01	1.44	1.53
1	kR	222	GLY	N-CA	6.01	1.51	1.45
1	ld	97	ARG	N-CA	6.01	1.53	1.45
1	ll	70	LYS	CA-C	6.01	1.60	1.52
1	lq	173	ARG	CA-CB	6.01	1.62	1.53
1	lN	155	GLN	CA-C	6.01	1.60	1.52
1	2r	110	THR	CB-OG1	-6.01	1.34	1.43
1	3o	219	GLN	CA-C	6.01	1.60	1.52
1	3E	14	ALA	CA-C	6.01	1.60	1.52
1	40	36	VAL	CA-CB	-6.01	1.46	1.54
1	41	175	GLU	CA-C	6.01	1.60	1.52
1	4f	174	ALA	N-CA	-6.01	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4P	152	ASP	CA-CB	6.01	1.62	1.53
1	4P	180	GLU	C-N	6.01	1.41	1.33
1	6p	180	GLU	CA-CB	6.01	1.62	1.53
1	7f	81	ASP	N-CA	-6.01	1.38	1.46
1	7h	207	PRO	N-CA	-6.01	1.40	1.47
1	7J	108	THR	CA-C	-6.01	1.45	1.52
1	7M	65	ALA	C-N	-6.01	1.26	1.33
1	8F	209	ALA	C-N	6.01	1.41	1.33
1	8U	173	ARG	CD-NE	6.01	1.54	1.46
1	9g	170	LYS	C-N	6.01	1.41	1.33
1	a3	80	TRP	CA-C	-6.01	1.45	1.52
1	af	6	LEU	CA-CB	6.01	1.63	1.53
1	12	43	LEU	N-CA	6.01	1.53	1.46
1	aW	135	ILE	CA-CB	-6.01	1.47	1.54
1	15	230	VAL	C-N	6.01	1.41	1.33
1	b4	172	LEU	CA-CB	6.01	1.63	1.53
1	bL	99	PRO	CA-C	-6.01	1.44	1.52
1	bX	138	LEU	CA-CB	6.01	1.62	1.53
1	c8	10	MET	C-N	6.01	1.41	1.33
1	c9	126	VAL	N-CA	-6.01	1.39	1.46
1	1g	81	ASP	CA-C	6.01	1.61	1.52
1	cW	172	LEU	C-O	-6.01	1.17	1.24
1	d8	87	HIS	CE1-NE2	6.01	1.38	1.32
1	dd	84	HIS	N-CA	-6.01	1.40	1.46
1	dQ	164	TYR	C-N	6.01	1.41	1.33
1	eB	77	ALA	CA-CB	6.01	1.62	1.53
1	eM	1	PRO	N-CD	6.01	1.56	1.47
1	eM	177	ALA	CA-C	6.01	1.60	1.52
1	f6	52	LEU	CA-C	-6.01	1.45	1.52
1	f7	116	GLY	CA-C	-6.01	1.43	1.51
1	1w	147	PRO	C-N	-6.01	1.25	1.33
1	fq	108	THR	N-CA	6.01	1.53	1.46
1	1x	57	ASN	CA-C	6.01	1.60	1.52
1	g5	132	ARG	CA-C	6.01	1.60	1.52
1	w	17	PRO	CA-CB	6.01	1.62	1.53
1	E	86	VAL	CA-CB	-6.01	1.48	1.54
1	hD	136	LEU	C-N	6.01	1.41	1.33
1	jD	12	HIS	ND1-CE1	6.01	1.38	1.32
1	lj	150	ILE	CA-C	6.01	1.61	1.52
1	ln	140	LYS	N-CA	-6.01	1.39	1.46
1	2l	114	GLN	C-N	6.01	1.41	1.33
1	2s	55	MET	CA-C	6.01	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2F	48	THR	N-CA	-6.01	1.37	1.45
1	2S	82	ARG	CA-CB	6.01	1.63	1.53
1	3k	190	LEU	C-O	-6.01	1.17	1.24
1	3D	114	GLN	C-N	6.01	1.41	1.33
1	5L	173	ARG	CD-NE	6.01	1.54	1.46
1	6W	32	PHE	CA-C	6.01	1.60	1.53
1	7n	155	GLN	CA-CB	6.01	1.62	1.53
1	8Z	92	GLU	CA-C	-6.01	1.47	1.53
1	9d	148	THR	CA-CB	6.01	1.63	1.53
1	bk	27	VAL	CA-C	-6.01	1.44	1.52
1	bx	61	GLY	C-N	6.01	1.42	1.33
1	da	101	GLY	CA-C	-6.01	1.45	1.52
1	dh	81	ASP	C-O	-6.01	1.17	1.24
1	dB	92	GLU	CA-CB	6.01	1.62	1.53
1	dF	90	PRO	CA-CB	-6.01	1.45	1.53
1	eH	37	ILE	CA-C	6.01	1.59	1.52
1	eJ	118	MET	C-N	6.01	1.41	1.33
1	eY	60	GLY	CA-C	-6.01	1.46	1.52
1	fa	92	GLU	CA-C	6.01	1.59	1.53
1	fL	184	TRP	CA-CB	6.01	1.62	1.53
1	1D	129	ILE	CA-CB	-6.01	1.46	1.54
1	gF	204	ALA	C-N	6.01	1.42	1.33
1	gK	18	ARG	CD-NE	6.01	1.54	1.46
1	gU	25	LYS	C-N	6.01	1.41	1.33
1	gX	14	ALA	C-N	6.01	1.39	1.33
1	hi	97	ARG	CD-NE	6.01	1.54	1.46
1	iS	97	ARG	CD-NE	6.01	1.54	1.46
1	jb	152	ASP	CA-CB	6.01	1.64	1.53
1	je	53	ASN	C-N	6.01	1.41	1.33
1	jC	30	LYS	CA-CB	6.01	1.63	1.53
1	21	78	ALA	C-N	6.01	1.41	1.33
1	kk	160	PRO	C-N	6.01	1.42	1.34
1	kp	3	VAL	CA-C	-6.01	1.45	1.52
1	kR	13	GLN	CA-C	-6.01	1.45	1.52
1	lr	98	GLU	C-N	-6.01	1.26	1.33
1	29	143	ARG	CA-C	6.01	1.60	1.52
1	lL	13	GLN	N-CA	6.01	1.52	1.45
1	2o	70	LYS	CA-CB	6.01	1.62	1.53
1	52	97	ARG	CA-C	-6.01	1.45	1.53
1	5b	82	ARG	CD-NE	6.01	1.54	1.46
1	63	132	ARG	CD-NE	6.01	1.54	1.46
1	67	12	HIS	CA-C	-6.01	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6m	107	THR	C-N	6.01	1.41	1.33
1	6J	185	MET	CA-CB	6.01	1.62	1.53
1	6Q	41	SER	C-O	6.01	1.31	1.24
1	6T	70	LYS	C-N	6.01	1.41	1.33
1	7h	206	GLY	C-N	6.01	1.39	1.33
1	7m	107	THR	C-O	-6.01	1.16	1.24
1	8x	82	ARG	C-N	6.01	1.42	1.33
1	8D	115	ILE	CA-CB	6.01	1.61	1.54
1	8O	74	ASN	N-CA	-6.01	1.39	1.46
1	9o	211	LEU	CA-CB	6.01	1.62	1.53
1	a1	163	ASP	CA-CB	6.01	1.62	1.53
1	ag	126	VAL	CA-C	-6.01	1.45	1.52
1	am	9	GLN	C-N	6.01	1.42	1.33
1	aZ	41	SER	N-CA	6.01	1.53	1.46
1	cT	179	GLN	N-CA	-6.01	1.38	1.46
1	1i	58	THR	N-CA	6.01	1.54	1.46
1	d7	97	ARG	CA-C	6.01	1.61	1.53
1	dk	226	HIS	CD2-NE2	6.01	1.44	1.37
1	dt	117	TRP	N-CA	-6.01	1.39	1.46
1	1m	11	VAL	N-CA	6.01	1.52	1.46
1	1p	31	ALA	CA-CB	6.01	1.62	1.53
1	ec	140	LYS	CA-C	6.01	1.60	1.52
1	eM	228	ALA	N-CA	6.01	1.53	1.46
1	eQ	89	GLY	CA-C	6.01	1.60	1.51
1	fl	222	GLY	N-CA	6.01	1.53	1.45
1	fs	16	SER	CA-CB	6.01	1.62	1.53
1	fZ	29	GLU	CA-C	6.01	1.60	1.52
1	u	73	ILE	CA-CB	-6.01	1.47	1.54
1	Q	71	GLU	CA-CB	6.01	1.62	1.53
1	gw	213	GLU	CA-C	6.00	1.60	1.52
1	gB	105	ALA	N-CA	-6.00	1.38	1.46
1	hT	215	MET	CA-C	6.00	1.61	1.52
1	hZ	198	CYS	CA-C	6.00	1.60	1.52
1	ia	173	ARG	CA-CB	6.00	1.63	1.53
1	iP	68	MET	CA-C	6.00	1.60	1.52
1	jb	50	GLN	CA-C	6.00	1.60	1.52
1	jE	176	GLN	CA-C	-6.00	1.44	1.52
1	ke	94	GLY	CA-C	6.00	1.60	1.51
1	2d	120	HIS	ND1-CE1	6.00	1.38	1.32
1	2j	189	LEU	CA-CB	-6.00	1.44	1.53
1	2E	160	PRO	CA-C	6.00	1.59	1.53
1	2V	129	ILE	CA-C	6.00	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3g	166	ASP	CA-C	6.00	1.60	1.52
1	4l	51	ASP	CA-C	-6.00	1.45	1.52
1	4F	193	ASN	N-CA	-6.00	1.38	1.46
1	4H	216	THR	N-CA	6.00	1.54	1.46
1	5u	168	PHE	CA-CB	6.00	1.62	1.53
1	5B	132	ARG	CA-C	-6.00	1.45	1.52
1	5H	54	THR	CA-C	-6.00	1.45	1.52
1	6K	213	GLU	CA-C	6.00	1.60	1.52
1	6W	183	ASN	C-N	6.00	1.41	1.33
1	7F	143	ARG	N-CA	-6.00	1.38	1.46
1	8I	10	MET	N-CA	-6.00	1.37	1.46
1	9S	132	ARG	CD-NE	6.00	1.54	1.46
1	9U	112	GLN	CA-CB	6.00	1.63	1.53
1	an	101	GLY	C-O	-6.00	1.16	1.23
1	12	131	LYS	N-CA	-6.00	1.39	1.46
1	aJ	114	GLN	C-N	6.00	1.41	1.34
1	aQ	2	ILE	C-N	6.00	1.41	1.33
1	b7	12	HIS	CB-CG	6.00	1.58	1.50
1	ci	24	VAL	CA-CB	6.00	1.62	1.54
1	cA	170	LYS	CA-C	-6.00	1.44	1.52
1	dj	186	THR	C-O	-6.00	1.17	1.24
1	dA	154	ARG	CZ-NH1	-6.00	1.24	1.32
1	ea	45	GLU	C-N	6.00	1.39	1.33
1	eq	209	ALA	CA-C	-6.00	1.44	1.52
1	1r	11	VAL	N-CA	6.00	1.53	1.46
1	eL	45	GLU	CA-CB	6.00	1.62	1.53
1	1v	40	PHE	C-N	6.00	1.41	1.33
1	fh	29	GLU	CA-CB	6.00	1.64	1.53
1	q	160	PRO	N-CD	-6.00	1.39	1.47
1	gI	1	PRO	N-CD	6.00	1.56	1.47
1	he	35	GLU	C-N	6.00	1.41	1.33
1	in	83	LEU	C-N	6.00	1.41	1.33
1	kH	83	LEU	C-N	6.00	1.41	1.33
1	l1	82	ARG	CD-NE	6.00	1.54	1.46
1	lb	182	LYS	CA-C	6.00	1.60	1.52
1	3Y	87	HIS	CG-ND1	6.00	1.44	1.38
1	4q	67	GLN	CA-C	6.00	1.60	1.52
1	4u	141	ILE	CA-C	-6.00	1.44	1.52
1	4C	10	MET	CA-C	6.00	1.60	1.52
1	58	162	ARG	C-N	6.00	1.41	1.33
1	5y	157	PRO	C-N	6.00	1.41	1.33
1	5P	68	MET	CA-CB	6.00	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Q	63	GLN	CA-C	6.00	1.61	1.52
1	6q	99	PRO	C-O	6.00	1.31	1.24
1	7d	128	GLU	CA-C	-6.00	1.45	1.52
1	7s	62	HIS	CE1-NE2	6.00	1.38	1.32
1	7A	146	SER	CA-CB	6.00	1.62	1.53
1	8z	203	LYS	CA-C	-6.00	1.45	1.52
1	8H	118	MET	C-O	-6.00	1.17	1.24
1	8T	203	LYS	C-N	6.00	1.41	1.33
1	95	76	GLU	CA-CB	6.00	1.62	1.53
1	9A	87	HIS	CG-CD2	6.00	1.42	1.35
1	au	69	LEU	CA-CB	6.00	1.62	1.53
1	aA	1	PRO	N-CA	6.00	1.56	1.47
1	aS	28	GLU	N-CA	6.00	1.53	1.46
1	aU	172	LEU	C-N	6.00	1.41	1.33
1	aY	125	PRO	CA-CB	-6.00	1.49	1.53
1	bz	183	ASN	CA-C	6.00	1.60	1.52
1	d2	168	PHE	N-CA	6.00	1.53	1.46
1	ea	114	GLN	CA-CB	6.00	1.62	1.53
1	f1	201	ILE	N-CA	6.00	1.53	1.46
1	C	108	THR	C-N	6.00	1.41	1.33
1	H	126	VAL	CA-C	6.00	1.61	1.52
1	M	67	GLN	C-N	6.00	1.41	1.33
1	gc	80	TRP	CA-C	6.00	1.60	1.52
1	gq	97	ARG	CD-NE	6.00	1.54	1.46
1	hp	179	GLN	CA-CB	6.00	1.62	1.53
1	hx	159	GLU	C-N	-6.00	1.26	1.33
1	1K	133	TRP	NE1-CE2	6.00	1.44	1.37
1	js	98	GLU	CA-C	6.00	1.59	1.53
1	jE	78	ALA	CA-CB	6.00	1.62	1.53
1	jN	22	ALA	CA-C	6.00	1.60	1.52
1	jZ	49	PRO	C-N	6.00	1.41	1.33
1	k3	36	VAL	N-CA	6.00	1.53	1.46
1	kQ	72	THR	CA-C	-6.00	1.45	1.52
1	lk	226	HIS	ND1-CE1	6.00	1.38	1.32
1	lx	87	HIS	CD2-NE2	6.00	1.44	1.37
1	lN	147	PRO	CA-C	-6.00	1.45	1.52
1	2d	24	VAL	C-N	6.00	1.42	1.33
1	2p	191	VAL	C-N	6.00	1.42	1.34
1	2s	85	PRO	CA-C	-6.00	1.43	1.52
1	2C	209	ALA	C-N	6.00	1.41	1.33
1	2N	146	SER	N-CA	6.00	1.54	1.45
1	2T	39	MET	CA-CB	6.00	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	38	53	ASN	CA-CB	6.00	1.62	1.53
1	3O	163	ASP	C-N	6.00	1.41	1.33
1	4r	97	ARG	CD-NE	6.00	1.54	1.46
1	4O	114	GLN	C-N	6.00	1.41	1.33
1	4Z	164	TYR	C-N	6.00	1.41	1.33
1	5r	216	THR	N-CA	6.00	1.53	1.46
1	68	147	PRO	C-N	6.00	1.40	1.33
1	6F	18	ARG	CA-C	-6.00	1.45	1.52
1	7j	85	PRO	CA-CB	-6.00	1.47	1.53
1	7n	169	TYR	CZ-OH	6.00	1.50	1.38
1	7s	151	LEU	N-CA	6.00	1.53	1.46
1	7u	225	GLY	C-N	6.00	1.41	1.33
1	7z	229	ARG	CA-C	6.00	1.60	1.52
1	7J	216	THR	CA-CB	6.00	1.63	1.53
1	8l	117	TRP	CA-C	-6.00	1.45	1.52
1	8m	53	ASN	CA-C	-6.00	1.45	1.52
1	8D	203	LYS	CA-C	6.00	1.61	1.52
1	8F	24	VAL	CA-CB	-6.00	1.46	1.54
1	8K	87	HIS	ND1-CE1	6.00	1.38	1.32
1	9r	13	GLN	N-CA	6.00	1.53	1.46
1	9S	7	GLN	N-CA	-6.00	1.38	1.46
1	ac	124	ILE	CA-C	-6.00	1.48	1.52
1	aW	55	MET	CA-CB	6.00	1.62	1.53
1	aW	177	ALA	C-N	6.00	1.41	1.33
1	18	84	HIS	CA-C	6.00	1.59	1.52
1	bO	90	PRO	N-CD	-6.00	1.39	1.47
1	bQ	100	ARG	N-CA	6.00	1.53	1.45
1	bQ	186	THR	CA-C	-6.00	1.44	1.52
1	1b	51	ASP	CA-C	6.00	1.60	1.52
1	ci	103	ASP	CA-CB	6.00	1.62	1.53
1	cp	108	THR	N-CA	-6.00	1.39	1.46
1	cY	51	ASP	N-CA	6.00	1.53	1.46
1	d9	92	GLU	C-N	6.00	1.40	1.33
1	dm	99	PRO	C-O	-6.00	1.16	1.24
1	dW	198	CYS	CA-C	6.00	1.60	1.52
1	e3	143	ARG	CD-NE	6.00	1.54	1.46
1	ek	5	ASN	N-CA	-6.00	1.39	1.47
1	em	154	ARG	CD-NE	6.00	1.54	1.46
1	eo	1	PRO	N-CA	6.00	1.56	1.47
1	eG	191	VAL	N-CA	6.00	1.53	1.46
1	eJ	88	ALA	C-O	-6.00	1.17	1.24
1	eZ	94	GLY	C-N	6.00	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fz	30	LYS	N-CA	-6.00	1.38	1.46
1	f	164	TYR	CA-CB	6.00	1.62	1.53
1	7	19	THR	CA-C	-6.00	1.45	1.52
1	9	41	SER	N-CA	-6.00	1.39	1.46
1	iq	130	TYR	N-CA	6.00	1.53	1.46
1	iR	113	GLU	C-N	6.00	1.41	1.33
1	jk	229	ARG	C-N	6.00	1.41	1.33
1	k6	163	ASP	C-N	6.00	1.41	1.33
1	kS	19	THR	C-N	-6.00	1.26	1.33
1	ln	51	ASP	CA-C	-6.00	1.45	1.52
1	2p	173	ARG	C-N	6.00	1.41	1.33
1	2C	61	GLY	N-CA	6.00	1.52	1.45
1	2C	71	GLU	N-CA	-6.00	1.39	1.46
1	3a	177	ALA	N-CA	-6.00	1.38	1.46
1	3q	153	ILE	CA-CB	-6.00	1.46	1.53
1	5d	99	PRO	N-CA	-6.00	1.40	1.47
1	5Z	175	GLU	N-CA	6.00	1.54	1.46
1	6j	125	PRO	CA-CB	6.00	1.60	1.53
1	75	177	ALA	CA-C	6.00	1.59	1.52
1	8i	68	MET	CA-CB	6.00	1.62	1.53
1	8E	78	ALA	N-CA	-6.00	1.39	1.46
1	12	9	GLN	C-N	6.00	1.42	1.33
1	cB	157	PRO	N-CD	6.00	1.56	1.47
1	cS	2	ILE	CA-C	-6.00	1.45	1.52
1	do	36	VAL	N-CA	6.00	1.54	1.46
1	fn	145	TYR	CA-C	6.00	1.60	1.52
1	j	129	ILE	N-CA	-6.00	1.39	1.46
1	D	25	LYS	C-N	6.00	1.41	1.33
1	F	226	HIS	C-N	-6.00	1.26	1.33
1	4	56	LEU	CA-C	6.00	1.60	1.52
1	gz	29	GLU	CA-C	-6.00	1.45	1.52
1	gO	197	ASP	N-CA	-6.00	1.39	1.46
1	h7	170	LYS	CA-C	-6.00	1.45	1.52
1	h8	222	GLY	CA-C	6.00	1.60	1.51
1	hW	73	ILE	CA-CB	-6.00	1.47	1.54
1	i8	13	GLN	CA-C	-6.00	1.45	1.52
1	ik	10	MET	CA-CB	6.00	1.62	1.53
1	ix	30	LYS	CA-CB	-6.00	1.44	1.53
1	ix	209	ALA	CA-C	-6.00	1.45	1.52
1	iX	157	PRO	CA-CB	6.00	1.62	1.53
1	jf	62	HIS	CE1-NE2	6.00	1.38	1.32
1	jn	119	THR	C-N	6.00	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kb	120	HIS	N-CA	6.00	1.53	1.46
1	ko	177	ALA	CA-C	6.00	1.60	1.52
1	22	74	ASN	CA-C	6.00	1.60	1.52
1	kI	43	LEU	CA-C	6.00	1.60	1.52
1	l7	144	MET	CA-CB	6.00	1.63	1.53
1	la	26	VAL	CA-CB	-6.00	1.47	1.54
1	2h	137	GLY	C-N	6.00	1.41	1.33
1	2t	176	GLN	C-N	6.00	1.41	1.33
1	2y	44	SER	C-O	-6.00	1.16	1.24
1	2z	91	ILE	CA-C	6.00	1.59	1.52
1	2C	142	VAL	C-N	6.00	1.41	1.33
1	52	99	PRO	CA-CB	6.00	1.61	1.53
1	53	205	LEU	CA-CB	6.00	1.63	1.53
1	55	13	GLN	C-N	6.00	1.41	1.33
1	60	152	ASP	CA-CB	6.00	1.62	1.53
1	6e	223	GLY	N-CA	6.00	1.52	1.44
1	6F	14	ALA	C-N	6.00	1.41	1.33
1	6X	174	ALA	CA-C	6.00	1.60	1.53
1	7d	68	MET	CG-SD	6.00	1.95	1.80
1	7d	97	ARG	CD-NE	6.00	1.54	1.46
1	7n	25	LYS	C-N	6.00	1.41	1.33
1	8q	101	GLY	CA-C	-6.00	1.44	1.52
1	8y	111	LEU	CA-CB	6.00	1.62	1.53
1	8I	88	ALA	C-N	6.00	1.42	1.33
1	8I	96	MET	CA-C	6.00	1.59	1.52
1	9L	9	GLN	N-CA	-6.00	1.39	1.46
1	9U	167	ARG	CA-C	-6.00	1.45	1.52
1	ab	8	GLY	CA-C	6.00	1.60	1.51
1	af	85	PRO	CA-C	-6.00	1.43	1.52
1	am	44	SER	CA-CB	6.00	1.61	1.53
1	aR	203	LYS	C-N	6.00	1.41	1.33
1	bY	62	HIS	CG-CD2	6.00	1.42	1.35
1	co	160	PRO	CA-C	-6.00	1.45	1.52
1	e8	120	HIS	ND1-CE1	6.00	1.38	1.32
1	f9	89	GLY	N-CA	6.00	1.52	1.44
1	fa	64	ALA	C-O	-6.00	1.17	1.24
1	ff	173	ARG	CD-NE	6.00	1.54	1.46
1	fg	222	GLY	N-CA	6.00	1.54	1.45
1	fk	146	SER	CA-C	6.00	1.59	1.53
1	gf	116	GLY	C-O	6.00	1.31	1.23
1	gy	160	PRO	CA-C	6.00	1.59	1.52
1	h2	34	PRO	CA-C	6.00	1.62	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h4	140	LYS	CA-C	-6.00	1.45	1.52
1	1M	90	PRO	N-CA	6.00	1.54	1.47
1	1N	136	LEU	C-N	6.00	1.42	1.33
1	iz	182	LYS	C-O	-6.00	1.17	1.24
1	iB	75	GLU	N-CA	-6.00	1.39	1.46
1	jK	98	GLU	C-N	6.00	1.41	1.33
1	jS	24	VAL	CA-CB	6.00	1.61	1.54
1	kC	160	PRO	C-N	6.00	1.41	1.33
1	lG	107	THR	C-O	-6.00	1.17	1.24
1	2f	206	GLY	C-N	6.00	1.39	1.33
1	2h	15	ILE	N-CA	6.00	1.53	1.46
1	2y	46	GLY	C-N	6.00	1.41	1.33
1	3D	224	PRO	C-N	6.00	1.42	1.33
1	3J	44	SER	N-CA	6.00	1.53	1.46
1	3Q	129	ILE	N-CA	-6.00	1.39	1.46
1	4v	12	HIS	CB-CG	6.00	1.58	1.50
1	4D	24	VAL	C-N	6.00	1.42	1.33
1	4R	100	ARG	C-N	6.00	1.41	1.33
1	65	208	ALA	CA-CB	6.00	1.62	1.53
1	6I	218	CYS	N-CA	6.00	1.53	1.46
1	7O	136	LEU	N-CA	-6.00	1.38	1.46
1	7Z	169	TYR	C-N	6.00	1.42	1.33
1	9x	148	THR	N-CA	6.00	1.53	1.46
1	a0	138	LEU	CA-CB	6.00	1.62	1.53
1	a2	25	LYS	C-O	-6.00	1.17	1.24
1	a3	8	GLY	CA-C	6.00	1.60	1.51
1	an	179	GLN	C-N	6.00	1.41	1.33
1	au	200	THR	N-CA	6.00	1.53	1.46
1	ax	123	PRO	N-CA	-6.00	1.40	1.46
1	aO	153	ILE	CA-CB	6.00	1.60	1.53
1	aZ	169	TYR	CA-CB	6.00	1.62	1.53
1	bl	3	VAL	N-CA	-6.00	1.39	1.46
1	bm	27	VAL	CA-CB	-6.00	1.47	1.54
1	bK	187	GLU	N-CA	-6.00	1.39	1.46
1	bW	117	TRP	CA-C	6.00	1.60	1.52
1	bY	150	ILE	CA-CB	-6.00	1.48	1.54
1	c0	69	LEU	N-CA	-6.00	1.39	1.46
1	c0	199	LYS	N-CA	6.00	1.53	1.46
1	ch	60	GLY	CA-C	-6.00	1.43	1.51
1	cl	167	ARG	C-N	-6.00	1.26	1.33
1	cE	213	GLU	CA-C	6.00	1.60	1.52
1	dm	62	HIS	CE1-NE2	6.00	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dp	187	GLU	CA-C	6.00	1.60	1.52
1	1l	85	PRO	CA-C	6.00	1.59	1.52
1	R	142	VAL	CA-CB	-6.00	1.47	1.54
1	gD	167	ARG	CD-NE	6.00	1.54	1.46
1	ik	100	ARG	CA-C	-6.00	1.44	1.53
1	io	187	GLU	CA-CB	6.00	1.62	1.53
1	21	120	HIS	ND1-CE1	6.00	1.38	1.32
1	ky	202	LEU	CA-CB	6.00	1.63	1.53
1	kI	143	ARG	CA-C	6.00	1.60	1.52
1	lw	7	GLN	C-N	6.00	1.42	1.33
1	2H	142	VAL	CA-CB	-6.00	1.47	1.54
1	2K	117	TRP	CA-CB	6.00	1.63	1.53
1	30	99	PRO	CA-CB	-6.00	1.45	1.53
1	39	191	VAL	CA-C	6.00	1.60	1.52
1	4z	156	GLY	N-CA	6.00	1.52	1.44
1	68	10	MET	C-N	6.00	1.41	1.33
1	6y	45	GLU	CA-CB	6.00	1.60	1.53
1	78	117	TRP	CA-CB	6.00	1.62	1.53
1	79	97	ARG	CD-NE	6.00	1.54	1.46
1	7s	95	GLN	CA-CB	6.00	1.63	1.53
1	8l	154	ARG	C-N	-6.00	1.25	1.33
1	9o	86	VAL	N-CA	6.00	1.53	1.46
1	9Q	230	VAL	C-N	6.00	1.41	1.33
1	a7	48	THR	CA-CB	6.00	1.62	1.53
1	aF	7	GLN	CA-C	6.00	1.60	1.53
1	be	151	LEU	CA-CB	6.00	1.63	1.53
1	bN	73	ILE	CA-CB	6.00	1.62	1.54
1	bW	26	VAL	C-O	-6.00	1.17	1.24
1	cy	169	TYR	CA-CB	6.00	1.63	1.53
1	dK	15	ILE	CA-C	6.00	1.59	1.52
1	dW	177	ALA	C-N	6.00	1.41	1.33
1	fp	230	VAL	C-N	6.00	1.41	1.33
1	a	183	ASN	CA-CB	6.00	1.62	1.53
1	r	172	LEU	CA-CB	6.00	1.62	1.53
1	gb	52	LEU	CA-C	5.99	1.60	1.52
1	1D	209	ALA	CA-C	5.99	1.61	1.53
1	gA	18	ARG	CD-NE	5.99	1.54	1.46
1	1E	67	GLN	CA-CB	5.99	1.63	1.53
1	hB	5	ASN	N-CA	-5.99	1.38	1.45
1	hL	87	HIS	CA-CB	5.99	1.62	1.53
1	i8	66	MET	CA-C	-5.99	1.45	1.52
1	ib	9	GLN	N-CA	-5.99	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	if	64	ALA	C-N	5.99	1.41	1.33
1	is	193	ASN	C-N	5.99	1.41	1.33
1	iE	67	GLN	CA-C	5.99	1.60	1.52
1	iI	10	MET	CA-C	5.99	1.60	1.52
1	1S	130	TYR	C-N	5.99	1.41	1.33
1	j9	64	ALA	C-N	5.99	1.41	1.33
1	1Y	84	HIS	CA-CB	5.99	1.60	1.53
1	k0	212	GLU	N-CA	-5.99	1.39	1.46
1	k7	42	ALA	C-N	-5.99	1.25	1.34
1	kC	133	TRP	NE1-CE2	-5.99	1.30	1.37
1	kU	134	ILE	C-N	5.99	1.41	1.33
1	26	95	GLN	C-N	5.99	1.41	1.33
1	lg	131	LYS	CA-CB	5.99	1.63	1.53
1	2C	186	THR	CA-C	-5.99	1.44	1.52
1	2J	4	GLN	CA-CB	5.99	1.63	1.53
1	2S	167	ARG	NE-CZ	5.99	1.39	1.33
1	2U	192	GLN	CA-CB	5.99	1.63	1.53
1	3q	64	ALA	C-N	5.99	1.41	1.33
1	3I	77	ALA	CA-C	5.99	1.60	1.52
1	4x	76	GLU	C-N	5.99	1.42	1.34
1	4A	37	ILE	CA-C	5.99	1.59	1.52
1	4D	227	LYS	CA-CB	5.99	1.63	1.53
1	4Q	127	GLY	CA-C	5.99	1.59	1.52
1	4V	135	ILE	CA-CB	5.99	1.61	1.54
1	4Z	165	VAL	C-N	5.99	1.41	1.33
1	5h	39	MET	N-CA	5.99	1.53	1.46
1	5l	184	TRP	NE1-CE2	-5.99	1.30	1.37
1	5r	120	HIS	CB-CG	5.99	1.58	1.50
1	5S	96	MET	C-N	5.99	1.41	1.33
1	5Y	43	LEU	CA-CB	5.99	1.62	1.53
1	5Z	37	ILE	CA-C	5.99	1.58	1.52
1	60	5	ASN	CA-CB	5.99	1.63	1.53
1	6c	210	THR	C-N	5.99	1.41	1.34
1	6q	116	GLY	CA-C	-5.99	1.45	1.51
1	6L	29	GLU	N-CA	-5.99	1.39	1.46
1	6O	25	LYS	C-N	5.99	1.41	1.33
1	6R	32	PHE	CA-C	-5.99	1.45	1.53
1	7v	12	HIS	CA-CB	5.99	1.60	1.52
1	81	77	ALA	CA-C	5.99	1.60	1.52
1	8g	155	GLN	N-CA	5.99	1.52	1.45
1	8y	230	VAL	CA-CB	-5.99	1.46	1.54
1	8R	103	ASP	CA-CB	5.99	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a4	143	ARG	CD-NE	5.99	1.54	1.46
1	ax	219	GLN	CA-CB	5.99	1.63	1.53
1	bd	150	ILE	CB-CG1	5.99	1.65	1.53
1	bk	189	LEU	CA-CB	5.99	1.62	1.53
1	bv	185	MET	N-CA	5.99	1.53	1.46
1	bS	65	ALA	N-CA	-5.99	1.38	1.46
1	bU	38	PRO	C-N	5.99	1.41	1.33
1	c8	206	GLY	CA-C	5.99	1.60	1.51
1	1d	99	PRO	N-CA	-5.99	1.40	1.47
1	cq	36	VAL	CA-CB	5.99	1.62	1.54
1	cQ	80	TRP	CA-C	5.99	1.60	1.52
1	d5	143	ARG	CA-CB	5.99	1.64	1.53
1	dM	125	PRO	CA-C	-5.99	1.47	1.53
1	dS	182	LYS	C-N	5.99	1.41	1.33
1	1q	151	LEU	CA-CB	5.99	1.63	1.53
1	1u	92	GLU	CA-CB	5.99	1.62	1.53
1	f3	132	ARG	CA-C	5.99	1.61	1.52
1	fa	135	ILE	CA-CB	-5.99	1.47	1.54
1	fk	87	HIS	ND1-CE1	5.99	1.38	1.32
1	fy	67	GLN	CA-CB	5.99	1.63	1.53
1	fU	97	ARG	C-N	5.99	1.42	1.33
1	gA	122	PRO	CA-CB	5.99	1.64	1.53
1	gH	108	THR	N-CA	5.99	1.53	1.46
1	1G	85	PRO	CA-C	5.99	1.59	1.53
1	hM	146	SER	CA-C	5.99	1.60	1.52
1	i3	161	PHE	CA-C	5.99	1.60	1.52
1	iK	167	ARG	CA-C	5.99	1.60	1.52
1	21	29	GLU	CA-CB	5.99	1.63	1.53
1	kJ	172	LEU	C-N	5.99	1.42	1.33
1	l2	205	LEU	CA-C	-5.99	1.45	1.52
1	ls	205	LEU	CA-C	-5.99	1.43	1.52
1	2w	83	LEU	CA-C	-5.99	1.44	1.52
1	3I	12	HIS	ND1-CE1	5.99	1.38	1.32
1	3R	100	ARG	CA-C	-5.99	1.44	1.53
1	4k	93	PRO	C-N	5.99	1.41	1.33
1	50	206	GLY	C-N	-5.99	1.28	1.34
1	5o	68	MET	C-N	5.99	1.41	1.33
1	6q	2	ILE	CB-CG1	5.99	1.65	1.53
1	6y	80	TRP	CA-C	5.99	1.60	1.52
1	6Y	154	ARG	CA-C	-5.99	1.45	1.52
1	97	140	LYS	N-CA	-5.99	1.39	1.46
1	9k	193	ASN	CA-C	5.99	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9r	154	ARG	CA-C	-5.99	1.45	1.52
1	a7	208	ALA	CA-C	5.99	1.60	1.52
1	ax	226	HIS	CD2-NE2	5.99	1.44	1.37
1	bd	199	LYS	CA-C	5.99	1.60	1.52
1	bk	165	VAL	CA-C	-5.99	1.45	1.52
1	bR	82	ARG	CA-C	5.99	1.60	1.52
1	1b	37	ILE	CA-CB	-5.99	1.46	1.54
1	cI	75	GLU	CA-CB	-5.99	1.43	1.53
1	cT	108	THR	C-O	-5.99	1.15	1.23
1	dv	225	GLY	N-CA	5.99	1.53	1.45
1	eV	186	THR	N-CA	5.99	1.53	1.46
1	fN	22	ALA	C-N	5.99	1.41	1.33
1	gy	93	PRO	CA-C	-5.99	1.43	1.52
1	hL	34	PRO	CA-CB	-5.99	1.45	1.53
1	hY	102	SER	N-CA	-5.99	1.38	1.46
1	iH	117	TRP	C-O	5.99	1.30	1.24
1	jn	129	ILE	C-N	-5.99	1.26	1.33
1	jp	133	TRP	N-CA	5.99	1.53	1.46
1	ka	28	GLU	N-CA	-5.99	1.39	1.46
1	kv	69	LEU	CA-CB	5.99	1.62	1.53
1	kA	82	ARG	CA-CB	5.99	1.62	1.53
1	27	50	GLN	CA-C	5.99	1.60	1.52
1	lm	134	ILE	C-N	5.99	1.40	1.34
1	lP	227	LYS	CA-C	5.99	1.60	1.52
1	2M	145	TYR	CA-C	-5.99	1.44	1.52
1	34	131	LYS	CA-C	-5.99	1.45	1.52
1	3y	12	HIS	CB-CG	5.99	1.58	1.50
1	4c	39	MET	N-CA	-5.99	1.39	1.46
1	4d	197	ASP	CA-C	5.99	1.60	1.52
1	4x	161	PHE	C-N	-5.99	1.26	1.33
1	4z	84	HIS	ND1-CE1	5.99	1.38	1.32
1	4G	181	VAL	CA-C	5.99	1.60	1.52
1	4H	7	GLN	C-N	5.99	1.41	1.32
1	4P	86	VAL	CA-C	-5.99	1.44	1.52
1	5i	133	TRP	N-CA	-5.99	1.39	1.46
1	5S	156	GLY	N-CA	5.99	1.52	1.44
1	65	93	PRO	CA-C	-5.99	1.43	1.52
1	67	82	ARG	CA-CB	5.99	1.64	1.53
1	6w	146	SER	CA-CB	5.99	1.61	1.53
1	7H	124	ILE	CA-CB	5.99	1.59	1.53
1	7M	143	ARG	CD-NE	5.99	1.54	1.46
1	7U	83	LEU	N-CA	-5.99	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7V	201	ILE	CA-C	-5.99	1.45	1.52
1	89	49	PRO	N-CD	-5.99	1.39	1.47
1	8h	192	GLN	CA-CB	5.99	1.62	1.53
1	8n	20	LEU	CA-C	-5.99	1.45	1.52
1	8M	166	ASP	CA-C	5.99	1.60	1.52
1	9i	113	GLU	N-CA	5.99	1.53	1.46
1	9J	12	HIS	CB-CG	5.99	1.58	1.50
1	Z	178	SER	CA-CB	5.99	1.63	1.53
1	ac	154	ARG	CD-NE	5.99	1.54	1.46
1	ae	226	HIS	ND1-CE1	5.99	1.38	1.32
1	aH	120	HIS	CB-CG	5.99	1.58	1.50
1	14	29	GLU	CA-C	-5.99	1.45	1.52
1	aO	213	GLU	CA-CB	5.99	1.63	1.53
1	aX	143	ARG	CD-NE	5.99	1.54	1.46
1	15	30	LYS	C-N	5.99	1.42	1.33
1	aZ	149	SER	CA-CB	5.99	1.63	1.53
1	bq	123	PRO	C-N	-5.99	1.27	1.33
1	c7	26	VAL	C-N	5.99	1.41	1.33
1	c9	167	ARG	CD-NE	5.99	1.54	1.46
1	1j	36	VAL	C-N	5.99	1.42	1.34
1	dm	180	GLU	CA-CB	5.99	1.63	1.53
1	dI	177	ALA	C-N	5.99	1.42	1.33
1	dT	205	LEU	CA-C	5.99	1.60	1.52
1	e3	96	MET	CA-CB	5.99	1.63	1.53
1	e5	136	LEU	C-N	5.99	1.41	1.34
1	el	158	LYS	N-CA	-5.99	1.39	1.46
1	eA	96	MET	C-N	5.99	1.41	1.33
1	fc	218	CYS	C-O	5.99	1.31	1.23
1	fW	84	HIS	CA-C	5.99	1.60	1.52
1	0	162	ARG	CZ-NH2	-5.99	1.25	1.33
1	m	188	THR	CA-C	-5.99	1.48	1.52
1	D	62	HIS	ND1-CE1	5.99	1.38	1.32
1	D	131	LYS	N-CA	-5.99	1.39	1.46
1	M	87	HIS	CG-CD2	5.99	1.42	1.35
1	N	200	THR	CA-CB	5.99	1.62	1.53
1	X	84	HIS	ND1-CE1	5.99	1.38	1.32
1	gq	127	GLY	C-O	-5.99	1.16	1.23
1	gA	40	PHE	CA-CB	5.99	1.62	1.53
1	1E	98	GLU	CA-C	5.99	1.59	1.52
1	hd	148	THR	C-N	5.99	1.41	1.33
1	hi	148	THR	N-CA	5.99	1.53	1.46
1	hw	200	THR	CA-C	-5.99	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hF	83	LEU	N-CA	5.99	1.53	1.46
1	hS	202	LEU	C-N	5.99	1.41	1.33
1	hV	95	GLN	CA-CB	5.99	1.62	1.53
1	hX	81	ASP	CA-CB	5.99	1.62	1.53
1	i8	6	LEU	CA-C	-5.99	1.44	1.52
1	iC	195	ASN	CA-CB	5.99	1.62	1.53
1	j7	70	LYS	C-N	5.99	1.42	1.34
1	jn	168	PHE	CA-C	-5.99	1.45	1.52
1	k1	28	GLU	C-N	5.99	1.42	1.33
1	20	92	GLU	CA-CB	5.99	1.62	1.53
1	km	162	ARG	C-N	5.99	1.41	1.33
1	kP	26	VAL	N-CA	-5.99	1.39	1.46
1	lq	86	VAL	CA-C	-5.99	1.45	1.52
1	lK	148	THR	N-CA	5.99	1.53	1.46
1	lL	89	GLY	N-CA	5.99	1.52	1.44
1	2B	213	GLU	N-CA	5.99	1.53	1.46
1	2P	216	THR	CA-C	-5.99	1.47	1.52
1	35	125	PRO	CA-CB	5.99	1.60	1.53
1	39	153	ILE	CA-CB	-5.99	1.47	1.54
1	3p	12	HIS	N-CA	5.99	1.53	1.46
1	3J	107	THR	N-CA	5.99	1.54	1.46
1	4z	230	VAL	CA-CB	5.99	1.64	1.54
1	4I	82	ARG	CA-CB	5.99	1.62	1.53
1	4J	92	GLU	CA-C	5.99	1.59	1.53
1	4V	35	GLU	CA-C	5.99	1.60	1.52
1	6S	2	ILE	N-CA	-5.99	1.39	1.46
1	88	56	LEU	CA-CB	5.99	1.63	1.53
1	8r	131	LYS	CA-CB	5.99	1.62	1.53
1	97	82	ARG	CZ-NH2	-5.99	1.25	1.33
1	9T	112	GLN	C-N	5.99	1.42	1.33
1	ag	18	ARG	CD-NE	5.99	1.54	1.46
1	ap	61	GLY	N-CA	5.99	1.54	1.45
1	b3	16	SER	CA-CB	5.99	1.62	1.53
1	bj	113	GLU	CA-C	-5.99	1.45	1.52
1	bs	40	PHE	CA-CB	5.99	1.62	1.53
1	bw	142	VAL	CA-C	5.99	1.60	1.52
1	bK	45	GLU	CA-C	5.99	1.60	1.52
1	1d	21	ASN	CA-CB	5.99	1.62	1.53
1	ci	98	GLU	CA-C	5.99	1.59	1.52
1	cl	85	PRO	CA-CB	-5.99	1.46	1.53
1	cv	132	ARG	CD-NE	5.99	1.54	1.46
1	d5	16	SER	CA-C	-5.99	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dh	175	GLU	CA-CB	5.99	1.62	1.53
1	e1	120	HIS	ND1-CE1	5.99	1.38	1.32
1	eK	41	SER	CA-CB	5.99	1.62	1.53
1	eL	125	PRO	CA-C	5.99	1.58	1.52
1	eQ	163	ASP	CA-C	5.99	1.60	1.52
1	fF	120	HIS	ND1-CE1	5.99	1.38	1.32
1	fG	71	GLU	CA-CB	5.99	1.62	1.53
1	fG	129	ILE	CA-CB	-5.99	1.47	1.54
1	fQ	31	ALA	CA-C	5.99	1.61	1.53
1	b	108	THR	CA-C	-5.99	1.45	1.52
1	g	43	LEU	N-CA	5.99	1.52	1.46
1	k	18	ARG	C-N	5.99	1.41	1.33
1	C	81	ASP	C-N	5.99	1.41	1.33
1	gR	19	THR	CA-C	-5.99	1.45	1.52
1	h1	210	THR	CB-OG1	-5.99	1.34	1.43
1	h3	179	GLN	N-CA	5.99	1.53	1.46
1	hA	27	VAL	CA-C	-5.99	1.45	1.52
1	iQ	72	THR	CA-C	-5.99	1.45	1.52
1	iV	190	LEU	N-CA	5.99	1.53	1.46
1	j5	56	LEU	C-N	5.99	1.42	1.33
1	k3	82	ARG	CA-C	5.99	1.60	1.52
1	k8	86	VAL	C-N	5.99	1.41	1.33
1	22	108	THR	C-N	5.99	1.41	1.33
1	kA	183	ASN	CA-C	5.99	1.60	1.52
1	l0	85	PRO	C-N	5.99	1.41	1.33
1	2d	82	ARG	CD-NE	5.99	1.54	1.46
1	2i	41	SER	C-O	-5.99	1.17	1.24
1	2K	48	THR	CA-C	-5.99	1.45	1.53
1	2R	197	ASP	CA-CB	5.99	1.62	1.53
1	4j	87	HIS	ND1-CE1	5.99	1.38	1.32
1	56	204	ALA	CA-C	5.99	1.60	1.52
1	58	208	ALA	N-CA	5.99	1.53	1.46
1	9C	97	ARG	CA-C	-5.99	1.44	1.53
1	9O	9	GLN	CA-C	5.99	1.60	1.52
1	9T	58	THR	C-N	5.99	1.40	1.33
1	aG	84	HIS	ND1-CE1	5.99	1.38	1.32
1	b6	55	MET	C-N	5.99	1.41	1.33
1	bB	199	LYS	C-N	5.99	1.42	1.33
1	bH	188	THR	C-N	5.99	1.41	1.33
1	bT	62	HIS	ND1-CE1	-5.99	1.26	1.32
1	ce	123	PRO	C-N	5.99	1.38	1.32
1	cK	181	VAL	CA-CB	-5.99	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	di	221	VAL	CA-C	5.99	1.60	1.52
1	eW	61	GLY	CA-C	-5.99	1.46	1.52
1	fh	114	GLN	N-CA	-5.99	1.39	1.46
1	1w	75	GLU	CA-CB	-5.99	1.44	1.53
1	fE	129	ILE	C-N	5.99	1.42	1.33
1	P	143	ARG	CD-NE	5.99	1.54	1.46
1	X	37	ILE	C-N	5.99	1.41	1.34
1	gI	67	GLN	CA-C	-5.99	1.45	1.52
1	1S	224	PRO	CA-CB	-5.99	1.45	1.53
1	jW	170	LYS	CA-CB	5.99	1.62	1.53
1	1Z	75	GLU	C-N	5.99	1.42	1.34
1	ka	178	SER	CA-C	5.99	1.60	1.52
1	ll	203	LYS	N-CA	5.99	1.53	1.46
1	lD	84	HIS	CA-C	5.99	1.59	1.52
1	lN	38	PRO	C-O	5.99	1.31	1.24
1	2k	49	PRO	N-CD	-5.99	1.39	1.47
1	2L	13	GLN	CA-C	5.99	1.59	1.52
1	2O	214	MET	C-N	5.99	1.42	1.34
1	2U	92	GLU	CA-C	5.99	1.59	1.53
1	2Y	100	ARG	C-N	5.99	1.41	1.33
1	4h	42	ALA	N-CA	-5.99	1.38	1.46
1	4k	93	PRO	N-CA	-5.99	1.40	1.47
1	4r	222	GLY	C-N	5.99	1.42	1.33
1	4v	229	ARG	CD-NE	5.99	1.54	1.46
1	5C	96	MET	C-N	5.99	1.41	1.33
1	5M	176	GLN	CA-C	-5.99	1.44	1.52
1	6l	117	TRP	CA-C	5.99	1.60	1.52
1	6y	15	ILE	CA-C	5.99	1.59	1.52
1	7p	126	VAL	CA-C	5.99	1.60	1.52
1	88	172	LEU	CA-C	5.99	1.60	1.52
1	8I	90	PRO	CA-C	5.99	1.59	1.52
1	90	221	VAL	CA-C	5.99	1.59	1.52
1	9H	222	GLY	N-CA	5.99	1.53	1.45
1	9P	143	ARG	CA-CB	5.99	1.62	1.53
1	9W	101	GLY	C-N	5.99	1.42	1.33
1	ao	196	PRO	CA-C	-5.99	1.43	1.52
1	aB	125	PRO	N-CA	-5.99	1.42	1.47
1	aO	29	GLU	CA-CB	-5.99	1.44	1.53
1	aQ	157	PRO	CA-CB	-5.99	1.45	1.53
1	bL	158	LYS	CA-C	-5.99	1.44	1.52
1	bM	178	SER	N-CA	5.99	1.53	1.46
1	bR	38	PRO	CA-C	-5.99	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bW	220	GLY	CA-C	-5.99	1.43	1.52
1	c4	203	LYS	C-N	5.99	1.41	1.33
1	cb	51	ASP	C-N	5.99	1.41	1.33
1	cq	24	VAL	N-CA	5.99	1.53	1.46
1	1l	162	ARG	CD-NE	5.99	1.54	1.46
1	dz	184	TRP	N-CA	5.99	1.53	1.46
1	dJ	149	SER	C-N	5.99	1.40	1.34
1	e4	196	PRO	CA-CB	5.99	1.62	1.53
1	ev	115	ILE	N-CA	-5.99	1.39	1.46
1	fC	167	ARG	CD-NE	5.99	1.54	1.46
1	fL	113	GLU	CA-CB	5.99	1.62	1.53
1	e	122	PRO	CA-C	5.99	1.64	1.52
1	q	31	ALA	N-CA	-5.99	1.38	1.46
1	x	170	LYS	C-N	-5.99	1.26	1.33
1	iJ	178	SER	C-N	5.98	1.41	1.33
1	iY	173	ARG	NE-CZ	-5.98	1.26	1.33
1	j9	87	HIS	CB-CG	-5.98	1.41	1.50
1	jz	170	LYS	C-N	5.98	1.41	1.33
1	kI	142	VAL	CA-CB	5.98	1.62	1.54
1	2D	12	HIS	ND1-CE1	5.98	1.38	1.32
1	4y	50	GLN	CA-CB	5.98	1.63	1.53
1	5u	10	MET	CA-C	-5.98	1.44	1.52
1	5P	58	THR	C-N	5.98	1.39	1.33
1	8b	25	LYS	CA-C	5.98	1.60	1.52
1	8v	151	LEU	CA-C	5.98	1.60	1.52
1	90	136	LEU	CA-C	5.98	1.60	1.52
1	9i	75	GLU	CA-CB	5.98	1.63	1.53
1	9A	4	GLN	N-CA	-5.98	1.38	1.46
1	Y	120	HIS	CG-ND1	5.98	1.44	1.38
1	Z	50	GLN	CA-C	-5.98	1.45	1.52
1	ar	189	LEU	CB-CG	5.98	1.65	1.53
1	bq	24	VAL	CA-CB	-5.98	1.46	1.54
1	by	22	ALA	CA-C	-5.98	1.45	1.52
1	cv	167	ARG	CZ-NH2	-5.98	1.25	1.33
1	cT	77	ALA	N-CA	-5.98	1.39	1.46
1	d9	162	ARG	C-N	5.98	1.41	1.33
1	dC	37	ILE	CA-C	5.98	1.58	1.52
1	el	216	THR	C-N	5.98	1.41	1.33
1	eI	40	PHE	CA-C	-5.98	1.45	1.52
1	f1	19	THR	N-CA	5.98	1.53	1.46
1	fC	144	MET	CA-CB	5.98	1.62	1.53
1	fJ	227	LYS	C-N	5.98	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g1	86	VAL	C-N	5.98	1.41	1.33
1	gk	97	ARG	CD-NE	5.98	1.54	1.46
1	gl	213	GLU	CA-CB	5.98	1.61	1.53
1	gv	167	ARG	C-N	5.98	1.41	1.33
1	gx	219	GLN	CA-C	5.98	1.60	1.52
1	gC	211	LEU	C-N	5.98	1.41	1.33
1	hc	85	PRO	CA-C	5.98	1.60	1.52
1	1I	30	LYS	C-N	5.98	1.42	1.33
1	hk	116	GLY	CA-C	-5.98	1.45	1.51
1	hA	102	SER	C-O	-5.98	1.17	1.24
1	ic	84	HIS	ND1-CE1	5.98	1.38	1.32
1	ij	159	GLU	CA-C	5.98	1.59	1.53
1	iC	97	ARG	CD-NE	5.98	1.54	1.46
1	iY	31	ALA	CA-C	5.98	1.60	1.52
1	jI	44	SER	CA-CB	5.98	1.63	1.53
1	jT	186	THR	N-CA	5.98	1.54	1.46
1	kf	207	PRO	N-CA	5.98	1.54	1.47
1	ki	170	LYS	CA-C	5.98	1.60	1.52
1	kr	85	PRO	C-N	5.98	1.41	1.33
1	l9	17	PRO	N-CA	-5.98	1.39	1.47
1	2a	26	VAL	CA-CB	5.98	1.62	1.54
1	2x	134	ILE	C-N	-5.98	1.26	1.34
1	2G	167	ARG	CA-C	5.98	1.60	1.52
1	32	135	ILE	C-N	5.98	1.41	1.33
1	3E	206	GLY	CA-C	5.98	1.60	1.51
1	3V	126	VAL	CA-C	5.98	1.60	1.52
1	4k	64	ALA	N-CA	-5.98	1.39	1.46
1	4D	80	TRP	CA-CB	5.98	1.62	1.53
1	4G	220	GLY	N-CA	5.98	1.53	1.45
1	4Z	212	GLU	CA-CB	5.98	1.62	1.53
1	55	97	ARG	N-CA	-5.98	1.38	1.46
1	6V	100	ARG	C-O	-5.98	1.17	1.23
1	7R	224	PRO	CA-C	-5.98	1.45	1.52
1	8m	109	SER	C-N	5.98	1.41	1.33
1	8I	153	ILE	N-CA	5.98	1.53	1.46
1	9C	135	ILE	C-O	-5.98	1.17	1.24
1	9V	133	TRP	C-N	5.98	1.41	1.33
1	ak	80	TRP	CA-CB	5.98	1.62	1.53
1	al	181	VAL	CA-CB	-5.98	1.46	1.54
1	aD	95	GLN	C-N	5.98	1.41	1.33
1	aP	146	SER	CA-CB	5.98	1.62	1.53
1	bh	9	GLN	CA-C	5.98	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bs	7	GLN	C-N	5.98	1.41	1.33
1	bM	73	ILE	CA-C	5.98	1.60	1.52
1	bU	223	GLY	C-N	5.98	1.39	1.33
1	bW	45	GLU	C-O	-5.98	1.17	1.24
1	bX	14	ALA	CA-C	5.98	1.60	1.52
1	ca	24	VAL	CA-CB	5.98	1.62	1.54
1	cU	61	GLY	CA-C	5.98	1.59	1.51
1	cZ	15	ILE	CA-CB	5.98	1.61	1.54
1	d1	138	LEU	CA-CB	5.98	1.63	1.53
1	1k	58	THR	C-N	5.98	1.41	1.33
1	dL	71	GLU	CA-CB	5.98	1.62	1.53
1	dO	136	LEU	CA-C	-5.98	1.45	1.52
1	e5	84	HIS	ND1-CE1	5.98	1.38	1.32
1	ei	26	VAL	CA-C	-5.98	1.45	1.52
1	es	134	ILE	N-CA	-5.98	1.39	1.46
1	fQ	20	LEU	C-N	5.98	1.42	1.33
1	g5	100	ARG	N-CA	5.98	1.52	1.45
1	e	140	LYS	CA-C	-5.98	1.45	1.52
1	g9	166	ASP	C-O	-5.98	1.17	1.24
1	gy	226	HIS	CA-C	-5.98	1.44	1.52
1	gS	136	LEU	C-N	5.98	1.41	1.33
1	1G	50	GLN	CA-CB	5.98	1.63	1.53
1	h1	153	ILE	C-N	5.98	1.41	1.33
1	h9	220	GLY	C-N	5.98	1.40	1.34
1	hi	13	GLN	CA-C	-5.98	1.45	1.52
1	hm	181	VAL	CA-C	5.98	1.60	1.52
1	hD	226	HIS	CG-ND1	-5.98	1.31	1.38
1	hE	132	ARG	C-O	-5.98	1.17	1.24
1	hT	106	GLY	CA-C	-5.98	1.43	1.51
1	ib	21	ASN	N-CA	5.98	1.53	1.46
1	jl	108	THR	CA-C	-5.98	1.44	1.52
1	jS	72	THR	CA-C	-5.98	1.45	1.52
1	ka	123	PRO	C-N	5.98	1.40	1.33
1	kg	169	TYR	N-CA	5.98	1.53	1.46
1	kt	12	HIS	CD2-NE2	5.98	1.44	1.37
1	kt	166	ASP	C-O	5.98	1.30	1.24
1	kv	41	SER	CA-CB	5.98	1.62	1.53
1	kv	78	ALA	CA-CB	5.98	1.62	1.53
1	l4	149	SER	CA-C	-5.98	1.44	1.52
1	l4	162	ARG	CD-NE	5.98	1.54	1.46
1	lp	132	ARG	CA-CB	5.98	1.62	1.53
1	lw	50	GLN	CA-CB	5.98	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2u	12	HIS	CD2-NE2	5.98	1.44	1.37
1	3d	20	LEU	CA-CB	5.98	1.62	1.53
1	3k	219	GLN	CA-C	5.98	1.60	1.52
1	3R	1	PRO	N-CD	5.98	1.56	1.47
1	4t	56	LEU	CA-CB	5.98	1.62	1.53
1	4I	153	ILE	CA-C	5.98	1.59	1.52
1	4S	193	ASN	CA-C	5.98	1.60	1.52
1	5h	100	ARG	CA-CB	5.98	1.62	1.53
1	7w	223	GLY	C-N	5.98	1.41	1.33
1	7D	186	THR	CA-C	-5.98	1.45	1.52
1	8s	21	ASN	C-N	5.98	1.41	1.33
1	8u	186	THR	CA-C	-5.98	1.45	1.52
1	8O	114	GLN	CA-C	5.98	1.60	1.52
1	8T	139	ASN	CA-CB	5.98	1.62	1.53
1	8V	146	SER	CA-C	5.98	1.59	1.52
1	9D	224	PRO	N-CA	5.98	1.51	1.47
1	9V	65	ALA	C-N	5.98	1.42	1.34
1	a3	221	VAL	CA-C	5.98	1.60	1.52
1	ai	111	LEU	CA-CB	5.98	1.62	1.53
1	aF	210	THR	C-N	5.98	1.42	1.34
1	aI	67	GLN	N-CA	-5.98	1.39	1.46
1	bB	77	ALA	C-N	5.98	1.41	1.33
1	bN	44	SER	CA-CB	5.98	1.61	1.53
1	c6	16	SER	C-N	5.98	1.41	1.33
1	cs	182	LYS	CA-C	5.98	1.60	1.52
1	cy	13	GLN	CA-CB	5.98	1.62	1.53
1	cU	209	ALA	N-CA	5.98	1.53	1.46
1	dE	81	ASP	N-CA	-5.98	1.39	1.46
1	dE	138	LEU	CA-CB	5.98	1.62	1.53
1	e1	85	PRO	CA-C	-5.98	1.44	1.52
1	1o	61	GLY	CA-C	5.98	1.59	1.51
1	ea	154	ARG	CA-C	5.98	1.60	1.52
1	ed	164	TYR	C-N	5.98	1.41	1.34
1	ef	134	ILE	CA-CB	5.98	1.61	1.54
1	eJ	143	ARG	CD-NE	5.98	1.54	1.46
1	f7	86	VAL	CA-C	5.98	1.60	1.53
1	1	134	ILE	CA-C	-5.98	1.45	1.52
1	o	162	ARG	CA-CB	5.98	1.62	1.53
1	X	1	PRO	N-CA	5.98	1.56	1.47
1	gB	134	ILE	C-N	5.98	1.41	1.33
1	1J	149	SER	CA-CB	5.98	1.61	1.53
1	iK	114	GLN	CA-CB	5.98	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jc	137	GLY	CA-C	5.98	1.58	1.52
1	k2	41	SER	CA-C	-5.98	1.45	1.52
1	ka	107	THR	N-CA	5.98	1.53	1.46
1	2m	162	ARG	CZ-NH2	-5.98	1.25	1.33
1	2A	24	VAL	CA-CB	-5.98	1.46	1.54
1	38	113	GLU	C-O	-5.98	1.17	1.24
1	3A	200	THR	C-N	5.98	1.41	1.33
1	4d	157	PRO	C-O	-5.98	1.16	1.24
1	4F	32	PHE	N-CA	-5.98	1.39	1.46
1	4L	152	ASP	C-N	5.98	1.41	1.34
1	4V	84	HIS	CA-CB	5.98	1.62	1.53
1	5Q	49	PRO	N-CD	5.98	1.56	1.47
1	5Z	167	ARG	CA-CB	5.98	1.62	1.53
1	6M	189	LEU	CA-CB	5.98	1.62	1.53
1	72	135	ILE	CA-C	5.98	1.60	1.52
1	74	225	GLY	N-CA	5.98	1.53	1.45
1	7z	175	GLU	N-CA	5.98	1.53	1.45
1	8Q	14	ALA	CA-CB	5.98	1.63	1.53
1	9b	164	TYR	CA-CB	5.98	1.62	1.53
1	9C	23	TRP	CA-C	-5.98	1.45	1.52
1	13	80	TRP	NE1-CE2	-5.98	1.30	1.37
1	bp	55	MET	CA-C	5.98	1.60	1.52
1	c1	142	VAL	N-CA	-5.98	1.39	1.46
1	cj	174	ALA	C-N	5.98	1.41	1.33
1	dM	14	ALA	C-O	-5.98	1.16	1.23
1	1n	39	MET	C-N	5.98	1.41	1.33
1	ff	120	HIS	CA-CB	5.98	1.63	1.53
1	fy	56	LEU	CA-CB	5.98	1.62	1.53
1	fL	115	ILE	C-N	5.98	1.41	1.33
1	T	51	ASP	C-O	5.98	1.30	1.24
1	gg	120	HIS	C-N	5.98	1.41	1.33
1	h6	15	ILE	N-CA	-5.98	1.38	1.46
1	hG	178	SER	CA-C	5.98	1.60	1.52
1	hK	147	PRO	CA-C	-5.98	1.46	1.52
1	hZ	8	GLY	C-N	5.98	1.41	1.33
1	iB	166	ASP	N-CA	-5.98	1.39	1.46
1	iX	159	GLU	C-N	5.98	1.41	1.34
1	j0	157	PRO	C-N	5.98	1.41	1.33
1	1U	80	TRP	NE1-CE2	-5.98	1.30	1.37
1	je	221	VAL	CA-C	5.98	1.60	1.52
1	jx	178	SER	C-N	5.98	1.41	1.33
1	kh	6	LEU	CA-CB	5.98	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kj	133	TRP	NE1-CE2	-5.98	1.30	1.37
1	kS	49	PRO	C-N	5.98	1.41	1.33
1	ln	229	ARG	NE-CZ	5.98	1.39	1.33
1	lK	133	TRP	C-N	5.98	1.41	1.33
1	2k	97	ARG	CA-CB	5.98	1.63	1.53
1	3u	218	CYS	CA-C	-5.98	1.46	1.53
1	3K	24	VAL	CA-CB	5.98	1.61	1.54
1	4v	85	PRO	N-CA	5.98	1.54	1.47
1	4C	173	ARG	CA-C	5.98	1.60	1.52
1	5v	69	LEU	CA-CB	5.98	1.63	1.53
1	5I	51	ASP	CA-C	-5.98	1.45	1.52
1	69	18	ARG	CA-CB	-5.98	1.43	1.53
1	6m	215	MET	N-CA	5.98	1.53	1.46
1	6Q	67	GLN	N-CA	-5.98	1.39	1.46
1	71	151	LEU	CA-C	5.98	1.60	1.52
1	74	146	SER	C-N	-5.98	1.26	1.34
1	7v	40	PHE	CA-C	-5.98	1.45	1.52
1	7w	1	PRO	N-CD	5.98	1.56	1.47
1	7S	4	GLN	N-CA	5.98	1.53	1.46
1	8h	100	ARG	CD-NE	5.98	1.54	1.46
1	8J	49	PRO	CA-C	5.98	1.60	1.52
1	90	64	ALA	CA-C	5.98	1.60	1.52
1	90	156	GLY	C-N	-5.98	1.26	1.34
1	9e	186	THR	CA-CB	5.98	1.62	1.53
1	9x	27	VAL	C-O	-5.98	1.17	1.24
1	9E	5	ASN	C-O	5.98	1.31	1.24
1	aq	87	HIS	C-N	5.98	1.41	1.33
1	at	37	ILE	CA-CB	5.98	1.57	1.54
1	ax	35	GLU	CA-CB	5.98	1.62	1.53
1	aC	169	TYR	N-CA	-5.98	1.39	1.46
1	bh	201	ILE	N-CA	-5.98	1.39	1.46
1	bH	129	ILE	C-O	-5.98	1.17	1.24
1	cu	154	ARG	CD-NE	5.98	1.54	1.46
1	cE	161	PHE	CA-C	-5.98	1.45	1.52
1	d2	159	GLU	CA-C	5.98	1.60	1.52
1	dx	82	ARG	CA-C	5.98	1.60	1.52
1	dG	180	GLU	N-CA	-5.98	1.39	1.46
1	ei	164	TYR	CA-CB	5.98	1.62	1.53
1	ep	189	LEU	CA-C	5.98	1.60	1.52
1	1r	132	ARG	CD-NE	5.98	1.54	1.46
1	eE	12	HIS	CA-C	-5.98	1.45	1.53
1	eE	32	PHE	CA-C	5.98	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eL	142	VAL	C-O	-5.98	1.17	1.24
1	f3	57	ASN	CA-C	5.98	1.60	1.52
1	fh	152	ASP	CA-CB	5.98	1.62	1.53
1	fI	106	GLY	N-CA	-5.98	1.36	1.45
1	fV	23	TRP	NE1-CE2	5.98	1.44	1.37
1	g2	28	GLU	N-CA	-5.98	1.38	1.46
1	b	109	SER	CA-C	-5.98	1.45	1.52
1	C	32	PHE	CA-CB	5.98	1.63	1.53
1	F	183	ASN	CA-C	5.98	1.60	1.52
1	1D	87	HIS	CB-CG	5.98	1.58	1.50
1	gw	140	LYS	CA-CB	5.98	1.62	1.53
1	h1	149	SER	C-N	5.98	1.40	1.34
1	hn	129	ILE	N-CA	-5.98	1.39	1.46
1	im	229	ARG	CA-C	5.98	1.60	1.52
1	iM	53	ASN	N-CA	5.98	1.53	1.46
1	kd	78	ALA	CA-CB	5.98	1.62	1.53
1	kk	155	GLN	CA-CB	5.98	1.62	1.53
1	ln	172	LEU	CA-C	5.98	1.60	1.52
1	29	12	HIS	CD2-NE2	-5.98	1.31	1.37
1	3R	170	LYS	C-N	5.98	1.41	1.33
1	3U	2	ILE	CA-C	-5.98	1.45	1.52
1	4R	157	PRO	C-N	5.98	1.42	1.33
1	52	186	THR	N-CA	5.98	1.53	1.46
1	58	12	HIS	CE1-NE2	-5.98	1.26	1.32
1	5E	203	LYS	C-N	-5.98	1.26	1.33
1	6j	143	ARG	CA-CB	5.98	1.62	1.53
1	6y	71	GLU	CA-C	5.98	1.60	1.52
1	6F	15	ILE	N-CA	5.98	1.53	1.46
1	6I	53	ASN	CA-C	-5.98	1.45	1.52
1	6J	209	ALA	C-O	-5.98	1.16	1.23
1	73	154	ARG	CA-C	-5.98	1.45	1.52
1	7K	141	ILE	CB-CG1	5.98	1.65	1.53
1	9g	66	MET	CA-C	5.98	1.60	1.52
1	9S	103	ASP	C-N	5.98	1.41	1.33
1	aT	17	PRO	CA-CB	5.98	1.62	1.53
1	bO	102	SER	CA-CB	5.98	1.63	1.53
1	cb	172	LEU	CA-CB	5.98	1.63	1.53
1	cn	136	LEU	CA-C	5.98	1.60	1.52
1	d4	168	PHE	N-CA	-5.98	1.39	1.46
1	df	92	GLU	CA-C	5.98	1.59	1.53
1	dW	13	GLN	CA-C	5.98	1.59	1.52
1	eo	137	GLY	C-N	5.98	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eS	226	HIS	CB-CG	5.98	1.58	1.50
1	a	95	GLN	CA-C	5.98	1.59	1.52
1	gh	28	GLU	N-CA	-5.97	1.38	1.46
1	gt	117	TRP	NE1-CE2	5.97	1.44	1.37
1	gN	229	ARG	CD-NE	5.97	1.54	1.46
1	hd	12	HIS	CG-CD2	5.97	1.42	1.35
1	hG	11	VAL	CA-C	-5.97	1.45	1.52
1	ii	197	ASP	CA-CB	5.97	1.62	1.53
1	iq	168	PHE	CA-CB	5.97	1.63	1.53
1	iP	80	TRP	NE1-CE2	5.97	1.44	1.37
1	iP	87	HIS	CB-CG	-5.97	1.41	1.50
1	iS	147	PRO	CA-C	-5.97	1.44	1.52
1	jv	175	GLU	CA-CB	5.97	1.62	1.53
1	jw	107	THR	CA-C	-5.97	1.45	1.52
1	kp	73	ILE	N-CA	-5.97	1.38	1.46
1	25	17	PRO	CA-CB	5.97	1.62	1.53
1	kZ	136	LEU	CA-C	5.97	1.60	1.52
1	l9	168	PHE	CA-CB	5.97	1.62	1.53
1	lo	124	ILE	CA-C	5.97	1.59	1.52
1	lv	182	LYS	CA-CB	5.97	1.62	1.53
1	2s	117	TRP	CA-CB	5.97	1.62	1.53
1	32	126	VAL	CA-C	5.97	1.60	1.52
1	3O	138	LEU	CA-CB	5.97	1.62	1.53
1	48	229	ARG	CD-NE	5.97	1.54	1.46
1	4b	135	ILE	N-CA	5.97	1.53	1.46
1	4P	87	HIS	C-N	5.97	1.41	1.33
1	5i	70	LYS	CA-CB	5.97	1.62	1.53
1	5y	193	ASN	CA-C	5.97	1.60	1.52
1	5z	51	ASP	CA-C	5.97	1.60	1.52
1	5E	185	MET	CA-CB	5.97	1.62	1.53
1	6z	23	TRP	CA-CB	5.97	1.62	1.53
1	6M	160	PRO	CA-CB	5.97	1.61	1.53
1	6Q	195	ASN	CA-CB	5.97	1.62	1.53
1	73	18	ARG	NE-CZ	5.97	1.39	1.33
1	8e	12	HIS	CA-CB	5.97	1.62	1.53
1	8s	195	ASN	CA-CB	5.97	1.61	1.53
1	8B	41	SER	C-N	5.97	1.41	1.33
1	8Q	187	GLU	CA-CB	5.97	1.62	1.53
1	93	144	MET	CA-CB	5.97	1.62	1.53
1	95	33	SER	C-N	-5.97	1.28	1.33
1	9l	216	THR	CA-C	-5.97	1.44	1.52
1	9u	139	ASN	N-CA	-5.97	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9M	97	ARG	CD-NE	5.97	1.54	1.46
1	9O	157	PRO	N-CA	5.97	1.55	1.47
1	9P	219	GLN	C-N	5.97	1.42	1.33
1	a0	59	VAL	N-CA	-5.97	1.38	1.46
1	ad	62	HIS	CB-CG	5.97	1.58	1.50
1	ae	213	GLU	C-O	-5.97	1.17	1.24
1	aE	57	ASN	C-O	-5.97	1.16	1.24
1	aN	100	ARG	CA-CB	5.97	1.62	1.53
1	16	12	HIS	CB-CG	-5.97	1.41	1.50
1	b9	118	MET	SD-CE	5.97	1.94	1.79
1	bf	93	PRO	CA-C	5.97	1.60	1.52
1	bw	66	MET	CA-CB	5.97	1.62	1.53
1	bR	75	GLU	CA-CB	5.97	1.62	1.53
1	ce	171	THR	C-N	5.97	1.42	1.33
1	cg	151	LEU	N-CA	-5.97	1.39	1.46
1	1f	153	ILE	N-CA	-5.97	1.39	1.46
1	cS	87	HIS	CG-CD2	5.97	1.42	1.35
1	1h	173	ARG	CD-NE	5.97	1.54	1.46
1	dk	77	ALA	CA-C	5.97	1.60	1.52
1	dk	100	ARG	NE-CZ	-5.97	1.26	1.33
1	dE	180	GLU	N-CA	-5.97	1.39	1.46
1	dH	199	LYS	CA-C	-5.97	1.45	1.52
1	e5	49	PRO	N-CA	5.97	1.54	1.47
1	eg	40	PHE	CA-C	5.97	1.60	1.52
1	em	10	MET	CA-CB	5.97	1.61	1.53
1	em	155	GLN	CA-C	-5.97	1.45	1.52
1	er	11	VAL	C-N	5.97	1.42	1.33
1	f7	76	GLU	CA-C	5.97	1.60	1.52
1	fG	49	PRO	CA-C	5.97	1.61	1.52
1	fO	168	PHE	CA-C	5.97	1.60	1.52
1	e	104	ILE	N-CA	5.97	1.53	1.46
1	g	113	GLU	N-CA	5.97	1.53	1.46
1	gi	86	VAL	CA-CB	-5.97	1.47	1.54
1	gF	85	PRO	CA-C	-5.97	1.45	1.52
1	gV	107	THR	C-N	5.97	1.41	1.33
1	gW	91	ILE	CA-C	-5.97	1.45	1.52
1	h9	71	GLU	C-N	5.97	1.41	1.33
1	hG	71	GLU	C-N	5.97	1.41	1.33
1	hJ	28	GLU	CA-CB	5.97	1.62	1.53
1	ih	126	VAL	N-CA	5.97	1.53	1.46
1	io	119	THR	C-N	5.97	1.42	1.33
1	iw	198	CYS	N-CA	-5.97	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iT	29	GLU	CA-CB	5.97	1.63	1.53
1	jx	56	LEU	N-CA	-5.97	1.39	1.46
1	jR	87	HIS	CE1-NE2	5.97	1.38	1.32
1	23	194	ALA	CA-CB	5.97	1.63	1.53
1	25	182	LYS	CA-C	5.97	1.60	1.52
1	l7	86	VAL	CA-CB	-5.97	1.47	1.54
1	l8	124	ILE	CA-CB	-5.97	1.47	1.53
1	27	106	GLY	C-N	5.97	1.41	1.33
1	3u	9	GLN	CA-C	-5.97	1.45	1.52
1	3A	136	LEU	CA-C	5.97	1.60	1.52
1	3Z	140	LYS	CA-C	-5.97	1.45	1.52
1	42	23	TRP	NE1-CE2	-5.97	1.30	1.37
1	4l	82	ARG	N-CA	5.97	1.53	1.46
1	4v	128	GLU	CA-CB	5.97	1.62	1.53
1	5t	11	VAL	CA-C	-5.97	1.45	1.52
1	5B	70	LYS	N-CA	5.97	1.53	1.46
1	62	210	THR	C-N	5.97	1.42	1.33
1	6g	39	MET	C-N	5.97	1.41	1.33
1	6k	45	GLU	CA-C	5.97	1.60	1.52
1	7D	7	GLN	CA-CB	5.97	1.63	1.53
1	7H	165	VAL	CA-C	5.97	1.60	1.52
1	7L	85	PRO	CA-CB	5.97	1.61	1.53
1	7N	128	GLU	C-N	5.97	1.41	1.33
1	80	129	ILE	CB-CG1	5.97	1.65	1.53
1	8h	13	GLN	C-N	5.97	1.41	1.33
1	8h	59	VAL	N-CA	-5.97	1.39	1.46
1	8j	23	TRP	CA-C	5.97	1.60	1.52
1	8E	10	MET	CA-C	-5.97	1.45	1.52
1	8P	82	ARG	N-CA	-5.97	1.38	1.46
1	9c	36	VAL	CA-C	5.97	1.60	1.52
1	9d	68	MET	CA-C	5.97	1.60	1.52
1	a0	195	ASN	CA-C	5.97	1.60	1.52
1	aO	61	GLY	N-CA	5.97	1.52	1.45
1	aY	115	ILE	N-CA	-5.97	1.39	1.46
1	b8	27	VAL	C-N	5.97	1.41	1.33
1	ba	76	GLU	CA-CB	5.97	1.63	1.53
1	19	188	THR	C-N	5.97	1.41	1.33
1	bJ	63	GLN	CA-CB	-5.97	1.44	1.53
1	bL	78	ALA	C-O	-5.97	1.17	1.24
1	bP	11	VAL	C-N	5.97	1.41	1.33
1	bW	86	VAL	CA-CB	5.97	1.61	1.54
1	cl	67	GLN	CA-CB	-5.97	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cv	68	MET	C-O	-5.97	1.17	1.24
1	cG	109	SER	N-CA	-5.97	1.38	1.46
1	cL	132	ARG	C-N	5.97	1.42	1.33
1	1h	55	MET	C-O	-5.97	1.17	1.24
1	d9	76	GLU	C-O	-5.97	1.17	1.24
1	dr	10	MET	CA-C	-5.97	1.45	1.52
1	dX	229	ARG	CZ-NH2	-5.97	1.25	1.33
1	1q	23	TRP	CA-CB	5.97	1.62	1.53
1	ew	82	ARG	C-N	5.97	1.41	1.33
1	ey	111	LEU	CA-C	5.97	1.60	1.52
1	eD	195	ASN	CA-CB	5.97	1.61	1.53
1	eV	168	PHE	CA-CB	5.97	1.62	1.53
1	f0	121	ASN	CA-C	5.97	1.59	1.52
1	f0	222	GLY	CA-C	5.97	1.59	1.51
1	f7	176	GLN	CA-CB	5.97	1.62	1.53
1	fm	18	ARG	C-N	5.97	1.41	1.33
1	ft	95	GLN	N-CA	5.97	1.53	1.46
1	fx	156	GLY	C-N	5.97	1.41	1.34
1	fE	21	ASN	N-CA	5.97	1.53	1.46
1	fQ	129	ILE	CA-CB	5.97	1.61	1.54
1	g6	62	HIS	CA-CB	5.97	1.62	1.53
1	j	224	PRO	CA-C	5.97	1.60	1.52
1	7	95	GLN	CA-CB	5.97	1.63	1.53
1	gE	167	ARG	N-CA	5.97	1.53	1.46
1	hj	11	VAL	CA-C	-5.97	1.45	1.52
1	hH	101	GLY	N-CA	5.97	1.53	1.45
1	iy	37	ILE	CA-CB	5.97	1.57	1.53
1	iA	133	TRP	N-CA	5.97	1.53	1.46
1	j0	201	ILE	CA-C	5.97	1.60	1.52
1	j8	213	GLU	CA-C	-5.97	1.45	1.52
1	jv	80	TRP	CA-CB	5.97	1.62	1.53
1	jT	108	THR	C-N	5.97	1.41	1.33
1	kb	120	HIS	CA-CB	5.97	1.63	1.53
1	ke	153	ILE	CA-C	-5.97	1.46	1.53
1	lD	10	MET	C-N	5.97	1.41	1.33
1	3r	123	PRO	C-N	5.97	1.38	1.32
1	4R	134	ILE	C-N	5.97	1.41	1.33
1	88	20	LEU	C-N	5.97	1.42	1.33
1	dZ	80	TRP	CA-CB	5.97	1.62	1.53
1	1p	11	VAL	CA-CB	-5.97	1.47	1.54
1	f2	193	ASN	C-N	5.97	1.42	1.33
1	fl	179	GLN	C-O	-5.97	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fP	214	MET	C-N	5.97	1.42	1.33
1	J	153	ILE	CA-C	-5.97	1.46	1.52
1	V	218	CYS	CA-C	5.97	1.60	1.52
1	gl	68	MET	N-CA	-5.97	1.39	1.46
1	gt	107	THR	N-CA	5.97	1.53	1.46
1	gK	168	PHE	C-N	5.97	1.42	1.34
1	1F	39	MET	C-O	-5.97	1.17	1.24
1	gM	67	GLN	CA-CB	5.97	1.63	1.53
1	gV	84	HIS	CG-CD2	5.97	1.42	1.35
1	hT	151	LEU	CA-C	5.97	1.60	1.52
1	iL	9	GLN	N-CA	-5.97	1.39	1.46
1	jo	24	VAL	C-N	5.97	1.42	1.33
1	jH	84	HIS	ND1-CE1	5.97	1.38	1.32
1	jJ	170	LYS	N-CA	5.97	1.53	1.46
1	kr	132	ARG	C-N	5.97	1.42	1.33
1	l1	132	ARG	CD-NE	5.97	1.54	1.46
1	2x	56	LEU	N-CA	-5.97	1.39	1.46
1	3q	109	SER	CB-OG	5.97	1.54	1.42
1	3I	213	GLU	CA-CB	5.97	1.62	1.53
1	3K	14	ALA	C-O	-5.97	1.16	1.23
1	3N	227	LYS	CA-C	5.97	1.60	1.52
1	42	38	PRO	CA-C	-5.97	1.44	1.52
1	45	118	MET	C-N	5.97	1.42	1.33
1	4j	20	LEU	C-N	5.97	1.42	1.33
1	4E	160	PRO	N-CA	-5.97	1.39	1.47
1	5m	141	ILE	N-CA	5.97	1.54	1.46
1	5q	154	ARG	C-N	5.97	1.41	1.33
1	5u	197	ASP	N-CA	5.97	1.53	1.46
1	65	176	GLN	CA-CB	5.97	1.63	1.53
1	69	86	VAL	CA-C	-5.97	1.45	1.52
1	7S	27	VAL	CA-C	5.97	1.60	1.52
1	7X	120	HIS	ND1-CE1	5.97	1.38	1.32
1	8w	43	LEU	N-CA	5.97	1.54	1.46
1	8w	195	ASN	C-N	-5.97	1.24	1.33
1	98	224	PRO	CA-C	5.97	1.59	1.52
1	9d	96	MET	C-O	-5.97	1.16	1.24
1	9e	204	ALA	N-CA	-5.97	1.39	1.46
1	9t	155	GLN	N-CA	-5.97	1.38	1.46
1	9D	18	ARG	CZ-NH1	-5.97	1.24	1.32
1	9X	97	ARG	CD-NE	5.97	1.54	1.46
1	Z	10	MET	C-N	5.97	1.41	1.33
1	b4	140	LYS	N-CA	5.97	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bk	163	ASP	CA-CB	5.97	1.62	1.53
1	bp	183	ASN	N-CA	-5.97	1.39	1.46
1	bM	183	ASN	C-N	-5.97	1.26	1.33
1	cG	25	LYS	CA-C	5.97	1.60	1.52
1	d2	184	TRP	CA-C	5.97	1.60	1.52
1	dy	185	MET	CA-C	5.97	1.60	1.52
1	ee	166	ASP	CA-CB	5.97	1.62	1.53
1	ej	85	PRO	C-N	5.97	1.40	1.33
1	f8	142	VAL	CA-CB	-5.97	1.47	1.54
1	fJ	131	LYS	C-N	5.97	1.41	1.33
1	fR	80	TRP	CA-C	5.97	1.60	1.52
1	fV	164	TYR	N-CA	5.97	1.53	1.46
1	d	21	ASN	CA-C	5.97	1.60	1.52
1	e	170	LYS	N-CA	-5.97	1.39	1.46
1	j	7	GLN	N-CA	-5.97	1.38	1.46
1	N	161	PHE	CA-CB	5.97	1.62	1.53
1	7	144	MET	CA-CB	5.97	1.62	1.53
1	gp	166	ASP	C-N	5.97	1.42	1.33
1	gu	164	TYR	C-N	5.97	1.41	1.33
1	gB	27	VAL	CA-CB	-5.97	1.47	1.54
1	gS	228	ALA	C-N	5.97	1.41	1.33
1	h3	11	VAL	CA-CB	5.97	1.61	1.54
1	h9	182	LYS	CA-C	-5.97	1.45	1.52
1	hm	55	MET	CA-C	-5.97	1.44	1.52
1	hC	44	SER	N-CA	5.97	1.53	1.46
1	iF	149	SER	CA-C	-5.97	1.45	1.52
1	iN	35	GLU	C-N	5.97	1.41	1.33
1	iX	195	ASN	CA-CB	5.97	1.62	1.53
1	j5	81	ASP	CA-C	5.97	1.60	1.52
1	j6	171	THR	C-O	5.97	1.31	1.24
1	jJ	154	ARG	CA-C	5.97	1.60	1.52
1	k8	15	ILE	N-CA	5.97	1.53	1.46
1	l6	74	ASN	C-N	5.97	1.41	1.33
1	lh	105	ALA	N-CA	-5.97	1.38	1.46
1	3q	106	GLY	N-CA	5.97	1.53	1.45
1	3U	151	LEU	CA-CB	5.97	1.63	1.53
1	3X	3	VAL	N-CA	-5.97	1.39	1.46
1	4c	69	LEU	N-CA	-5.97	1.39	1.46
1	4w	52	LEU	CA-CB	5.97	1.62	1.53
1	4w	54	THR	N-CA	5.97	1.53	1.46
1	7C	230	VAL	C-N	5.97	1.41	1.33
1	7F	121	ASN	CA-CB	5.97	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8l	74	ASN	CA-CB	5.97	1.63	1.53
1	8C	218	CYS	C-N	5.97	1.42	1.33
1	90	149	SER	N-CA	5.97	1.53	1.45
1	aE	187	GLU	CA-CB	5.97	1.62	1.53
1	b1	153	ILE	N-CA	5.97	1.53	1.46
1	1j	40	PHE	CA-CB	5.97	1.62	1.53
1	1l	99	PRO	N-CA	-5.97	1.40	1.47
1	en	68	MET	CA-C	-5.97	1.45	1.52
1	eR	207	PRO	CA-CB	5.97	1.62	1.53
1	fv	38	PRO	CA-CB	5.97	1.62	1.53
1	fF	95	GLN	CA-C	5.97	1.60	1.52
1	fQ	135	ILE	N-CA	-5.97	1.39	1.46
1	C	70	LYS	C-N	5.97	1.41	1.33
1	5	5	ASN	CA-C	-5.97	1.45	1.52
1	gi	62	HIS	C-N	5.97	1.42	1.33
1	h3	156	GLY	C-N	-5.97	1.27	1.34
1	1H	213	GLU	CA-C	5.97	1.60	1.52
1	hh	173	ARG	CA-CB	5.97	1.64	1.53
1	hj	195	ASN	CA-C	5.97	1.60	1.52
1	1L	93	PRO	CA-C	5.97	1.59	1.52
1	ia	88	ALA	CA-C	5.97	1.60	1.52
1	ix	131	LYS	N-CA	-5.97	1.39	1.46
1	iR	12	HIS	CB-CG	5.97	1.58	1.50
1	j4	211	LEU	N-CA	-5.97	1.38	1.46
1	jg	223	GLY	C-N	-5.97	1.28	1.34
1	jr	200	THR	C-N	5.97	1.41	1.33
1	kw	143	ARG	CD-NE	5.97	1.54	1.46
1	kC	35	GLU	CA-C	5.97	1.61	1.52
1	kQ	131	LYS	N-CA	-5.97	1.38	1.46
1	kY	69	LEU	CA-C	5.97	1.60	1.52
1	lc	12	HIS	ND1-CE1	5.97	1.38	1.32
1	lL	53	ASN	CA-CB	5.97	1.62	1.53
1	lP	69	LEU	N-CA	-5.97	1.39	1.46
1	2L	4	GLN	CA-C	5.97	1.60	1.52
1	47	184	TRP	C-N	5.97	1.41	1.33
1	4o	78	ALA	CA-C	-5.97	1.45	1.52
1	5m	161	PHE	CA-CB	5.97	1.63	1.53
1	5s	226	HIS	CA-C	5.97	1.60	1.53
1	5w	25	LYS	CA-CB	5.97	1.62	1.53
1	5w	127	GLY	C-O	-5.97	1.16	1.23
1	5D	167	ARG	CD-NE	5.97	1.54	1.46
1	6a	161	PHE	N-CA	-5.97	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Y	62	HIS	CG-CD2	5.97	1.42	1.35
1	6Z	220	GLY	C-N	-5.97	1.27	1.33
1	75	201	ILE	CA-CB	-5.97	1.47	1.54
1	78	182	LYS	CA-C	-5.97	1.45	1.52
1	7w	174	ALA	CA-CB	5.97	1.62	1.53
1	7I	106	GLY	CA-C	-5.97	1.43	1.51
1	88	138	LEU	CA-CB	5.97	1.62	1.53
1	93	62	HIS	CE1-NE2	5.97	1.38	1.32
1	9l	51	ASP	N-CA	-5.97	1.39	1.46
1	9z	228	ALA	CA-C	-5.97	1.45	1.52
1	9V	20	LEU	C-N	5.97	1.42	1.33
1	aD	87	HIS	CE1-NE2	-5.97	1.26	1.32
1	aD	177	ALA	CA-C	5.97	1.60	1.52
1	14	200	THR	CA-CB	5.97	1.63	1.53
1	aX	93	PRO	C-N	5.97	1.42	1.33
1	b6	226	HIS	ND1-CE1	5.97	1.38	1.32
1	bO	92	GLU	CA-C	5.97	1.60	1.53
1	bO	105	ALA	C-N	5.97	1.40	1.33
1	bS	171	THR	N-CA	5.97	1.53	1.46
1	bT	187	GLU	N-CA	5.97	1.53	1.46
1	ch	23	TRP	NE1-CE2	-5.97	1.30	1.37
1	cE	16	SER	C-N	-5.97	1.25	1.33
1	df	56	LEU	N-CA	5.97	1.53	1.46
1	dg	17	PRO	N-CD	-5.97	1.39	1.47
1	di	72	THR	CA-C	5.97	1.60	1.52
1	dq	124	ILE	N-CA	5.97	1.51	1.46
1	dy	176	GLN	CA-C	5.97	1.60	1.52
1	dZ	22	ALA	CA-CB	5.97	1.62	1.53
1	1o	155	GLN	CA-C	-5.97	1.45	1.52
1	en	51	ASP	CA-CB	5.97	1.62	1.53
1	ey	157	PRO	CA-C	-5.97	1.46	1.52
1	eH	175	GLU	CA-CB	5.97	1.63	1.53
1	1t	15	ILE	C-N	5.97	1.46	1.33
1	fg	79	GLU	N-CA	5.97	1.53	1.46
1	fE	130	TYR	N-CA	-5.97	1.39	1.46
1	f	97	ARG	CD-NE	5.97	1.54	1.46
1	h	147	PRO	CA-CB	5.97	1.62	1.53
1	4	1	PRO	CA-C	-5.97	1.40	1.52
1	ge	193	ASN	CA-C	5.96	1.61	1.52
1	1C	32	PHE	C-N	5.96	1.42	1.33
1	gR	127	GLY	C-N	5.96	1.41	1.33
1	gS	88	ALA	CA-C	5.96	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gZ	27	VAL	CA-CB	5.96	1.63	1.54
1	he	190	LEU	CA-CB	5.96	1.62	1.53
1	hq	131	LYS	C-N	5.96	1.41	1.33
1	1L	28	GLU	CA-CB	5.96	1.62	1.53
1	iO	79	GLU	C-O	-5.96	1.17	1.24
1	iT	103	ASP	CA-C	-5.96	1.45	1.52
1	iT	207	PRO	CA-C	-5.96	1.43	1.52
1	jg	176	GLN	CA-CB	5.96	1.62	1.53
1	k7	120	HIS	CA-C	5.96	1.60	1.52
1	kj	230	VAL	C-N	5.96	1.41	1.33
1	l2	84	HIS	CG-ND1	-5.96	1.31	1.38
1	lO	114	GLN	CA-C	-5.96	1.45	1.52
1	2b	177	ALA	CA-CB	-5.96	1.43	1.53
1	2m	171	THR	N-CA	-5.96	1.39	1.46
1	2t	190	LEU	CA-CB	5.96	1.62	1.53
1	2G	99	PRO	C-N	5.96	1.41	1.33
1	2X	19	THR	CA-CB	-5.96	1.44	1.53
1	4d	103	ASP	CA-CB	5.96	1.62	1.53
1	4k	184	TRP	N-CA	-5.96	1.39	1.46
1	4M	39	MET	CA-CB	5.96	1.62	1.53
1	59	142	VAL	C-N	5.96	1.42	1.33
1	5c	134	ILE	CA-CB	-5.96	1.47	1.54
1	5h	77	ALA	CA-C	5.96	1.60	1.52
1	5t	86	VAL	CA-CB	-5.96	1.46	1.55
1	5z	39	MET	CA-C	-5.96	1.45	1.52
1	5G	4	GLN	CA-C	-5.96	1.45	1.52
1	5X	191	VAL	CA-C	-5.96	1.45	1.52
1	6e	85	PRO	CA-CB	5.96	1.61	1.53
1	6T	133	TRP	CZ2-CH2	5.96	1.48	1.37
1	6X	143	ARG	CA-C	5.96	1.60	1.52
1	7g	140	LYS	CA-C	5.96	1.60	1.52
1	7K	191	VAL	CA-C	-5.96	1.45	1.52
1	82	85	PRO	CA-C	5.96	1.59	1.52
1	89	24	VAL	C-N	5.96	1.41	1.33
1	8h	187	GLU	N-CA	-5.96	1.38	1.46
1	8I	63	GLN	C-N	5.96	1.41	1.33
1	9t	143	ARG	CD-NE	5.96	1.54	1.46
1	9L	188	THR	C-N	5.96	1.41	1.33
1	9Y	15	ILE	CA-C	5.96	1.60	1.52
1	a6	133	TRP	CA-CB	5.96	1.62	1.53
1	ad	206	GLY	C-N	-5.96	1.26	1.34
1	aq	195	ASN	N-CA	-5.96	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b0	124	ILE	N-CA	5.96	1.50	1.46
1	bU	184	TRP	N-CA	-5.96	1.39	1.46
1	1d	46	GLY	CA-C	-5.96	1.43	1.51
1	cn	70	LYS	CA-C	-5.96	1.44	1.52
1	cs	149	SER	C-N	5.96	1.40	1.33
1	cz	37	ILE	CA-CB	5.96	1.57	1.54
1	da	197	ASP	CA-C	5.96	1.60	1.52
1	dT	206	GLY	N-CA	5.96	1.52	1.44
1	eV	177	ALA	CA-CB	5.96	1.63	1.53
1	fi	16	SER	CA-C	-5.96	1.45	1.53
1	fk	99	PRO	CA-C	5.96	1.59	1.52
1	fn	14	ALA	C-N	5.96	1.41	1.33
1	ft	82	ARG	C-N	5.96	1.42	1.33
1	fX	178	SER	CA-C	5.96	1.60	1.52
1	d	87	HIS	C-N	5.96	1.41	1.33
1	B	132	ARG	N-CA	-5.96	1.39	1.46
1	3	135	ILE	C-O	5.96	1.30	1.24
1	U	9	GLN	CA-C	5.96	1.59	1.52
1	gJ	102	SER	CA-CB	5.96	1.62	1.53
1	hR	125	PRO	CA-CB	-5.96	1.47	1.53
1	1M	94	GLY	CA-C	5.96	1.59	1.52
1	ip	30	LYS	N-CA	5.96	1.53	1.46
1	iF	38	PRO	CA-C	5.96	1.60	1.52
1	iX	192	GLN	CA-C	-5.96	1.44	1.52
1	1T	216	THR	C-N	5.96	1.41	1.33
1	2J	82	ARG	CZ-NH2	-5.96	1.25	1.33
1	3a	87	HIS	CE1-NE2	-5.96	1.26	1.32
1	3m	188	THR	N-CA	5.96	1.53	1.46
1	3u	164	TYR	C-N	5.96	1.41	1.33
1	3Z	180	GLU	N-CA	5.96	1.53	1.46
1	6c	133	TRP	CA-CB	5.96	1.62	1.53
1	6w	18	ARG	CD-NE	5.96	1.54	1.46
1	7e	58	THR	CA-C	5.96	1.60	1.52
1	7n	10	MET	CA-CB	-5.96	1.43	1.53
1	8L	84	HIS	ND1-CE1	5.96	1.38	1.32
1	9W	37	ILE	CA-C	5.96	1.58	1.52
1	9Z	62	HIS	CA-CB	5.96	1.62	1.53
1	be	136	LEU	C-N	5.96	1.41	1.33
1	bm	121	ASN	C-O	-5.96	1.16	1.24
1	bB	7	GLN	CA-C	5.96	1.60	1.52
1	ch	12	HIS	N-CA	5.96	1.52	1.45
1	cs	23	TRP	CA-C	5.96	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dd	151	LEU	N-CA	5.96	1.54	1.46
1	fE	150	ILE	N-CA	-5.96	1.38	1.46
1	b	119	THR	CA-C	5.96	1.61	1.52
1	H	178	SER	N-CA	-5.96	1.38	1.45
1	gR	184	TRP	N-CA	5.96	1.53	1.46
1	hn	148	THR	N-CA	-5.96	1.38	1.46
1	hy	182	LYS	C-N	5.96	1.41	1.33
1	i5	49	PRO	C-N	5.96	1.41	1.33
1	i8	11	VAL	N-CA	-5.96	1.39	1.46
1	id	77	ALA	C-N	5.96	1.41	1.33
1	iL	86	VAL	CA-CB	-5.96	1.48	1.54
1	j3	58	THR	C-N	5.96	1.42	1.33
1	j4	57	ASN	CA-CB	5.96	1.63	1.53
1	jU	56	LEU	CA-C	5.96	1.60	1.52
1	k4	224	PRO	C-N	5.96	1.40	1.33
1	l1	97	ARG	CD-NE	5.96	1.54	1.46
1	lg	99	PRO	CA-CB	5.96	1.61	1.53
1	lm	108	THR	CA-C	-5.96	1.44	1.52
1	lG	81	ASP	C-N	5.96	1.42	1.34
1	2m	132	ARG	CA-C	5.96	1.60	1.52
1	2p	134	ILE	CA-CB	-5.96	1.47	1.54
1	2t	127	GLY	CA-C	-5.96	1.43	1.51
1	3t	67	GLN	C-O	-5.96	1.17	1.24
1	3A	68	MET	CA-CB	5.96	1.62	1.53
1	4f	223	GLY	CA-C	-5.96	1.43	1.51
1	4q	13	GLN	CA-C	5.96	1.59	1.52
1	4t	149	SER	CA-CB	5.96	1.63	1.53
1	4w	195	ASN	CA-C	5.96	1.59	1.53
1	4E	154	ARG	CD-NE	5.96	1.54	1.46
1	6P	167	ARG	C-N	5.96	1.41	1.33
1	6V	12	HIS	ND1-CE1	5.96	1.38	1.32
1	79	163	ASP	CA-C	-5.96	1.44	1.52
1	7i	191	VAL	CA-C	5.96	1.61	1.52
1	7j	80	TRP	CD2-CE3	5.96	1.49	1.40
1	8O	197	ASP	N-CA	5.96	1.53	1.46
1	8U	118	MET	CA-CB	5.96	1.62	1.53
1	9k	37	ILE	CA-CB	5.96	1.57	1.54
1	9u	150	ILE	CA-CB	-5.96	1.46	1.54
1	9U	45	GLU	C-O	-5.96	1.16	1.23
1	al	226	HIS	ND1-CE1	5.96	1.38	1.32
1	ao	149	SER	CA-CB	5.96	1.62	1.53
1	aB	155	GLN	C-N	5.96	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aE	166	ASP	CA-C	5.96	1.60	1.52
1	b9	41	SER	CA-C	5.96	1.60	1.52
1	bz	197	ASP	C-N	5.96	1.41	1.33
1	cp	3	VAL	N-CA	-5.96	1.39	1.46
1	cv	48	THR	N-CA	5.96	1.52	1.46
1	cC	58	THR	CA-C	-5.96	1.45	1.52
1	cI	87	HIS	CE1-NE2	-5.96	1.26	1.32
1	cI	134	ILE	C-O	-5.96	1.17	1.24
1	d7	41	SER	C-N	5.96	1.41	1.33
1	dB	71	GLU	N-CA	-5.96	1.39	1.46
1	1n	83	LEU	N-CA	-5.96	1.39	1.46
1	dV	86	VAL	N-CA	-5.96	1.38	1.46
1	en	143	ARG	CA-CB	5.96	1.62	1.53
1	ey	140	LYS	C-O	-5.96	1.17	1.24
1	1s	18	ARG	CD-NE	5.96	1.54	1.46
1	1t	120	HIS	ND1-CE1	5.96	1.38	1.32
1	g2	64	ALA	CA-C	5.96	1.60	1.52
1	0	20	LEU	CA-C	5.96	1.60	1.52
1	g	138	LEU	CA-C	-5.96	1.44	1.52
1	1	86	VAL	CA-C	-5.96	1.44	1.52
1	u	166	ASP	C-O	-5.96	1.17	1.24
1	B	175	GLU	CA-C	5.96	1.60	1.52
1	9	180	GLU	N-CA	5.96	1.53	1.46
1	gC	224	PRO	CA-CB	5.96	1.61	1.53
1	he	23	TRP	NE1-CE2	-5.96	1.30	1.37
1	hl	19	THR	N-CA	5.96	1.53	1.46
1	io	167	ARG	CD-NE	5.96	1.54	1.46
1	iP	40	PHE	C-N	5.96	1.41	1.33
1	iW	221	VAL	CA-CB	5.96	1.61	1.54
1	2q	72	THR	CA-C	5.96	1.60	1.52
1	2S	189	LEU	CA-CB	5.96	1.62	1.53
1	4m	195	ASN	N-CA	5.96	1.55	1.45
1	7f	46	GLY	CA-C	-5.96	1.43	1.51
1	7i	173	ARG	CZ-NH2	-5.96	1.25	1.33
1	7w	188	THR	N-CA	5.96	1.53	1.46
1	8x	23	TRP	CA-CB	5.96	1.62	1.53
1	8J	85	PRO	CA-CB	5.96	1.61	1.53
1	9c	22	ALA	CA-C	5.96	1.60	1.52
1	9T	6	LEU	CA-CB	5.96	1.62	1.53
1	9Z	201	ILE	CA-C	-5.96	1.45	1.52
1	au	100	ARG	N-CA	5.96	1.53	1.45
1	bN	51	ASP	CA-CB	5.96	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c9	121	ASN	CA-C	5.96	1.59	1.52
1	cD	87	HIS	N-CA	-5.96	1.38	1.46
1	d5	21	ASN	CA-C	-5.96	1.45	1.52
1	db	108	THR	N-CA	-5.96	1.38	1.46
1	dE	37	ILE	CA-CB	5.96	1.57	1.53
1	eI	181	VAL	CA-CB	-5.96	1.46	1.54
1	g2	194	ALA	C-N	5.96	1.41	1.33
1	x	14	ALA	CA-C	5.96	1.60	1.52
1	gF	19	THR	N-CA	5.96	1.53	1.46
1	gK	96	MET	CA-C	-5.96	1.45	1.52
1	hm	133	TRP	C-N	5.96	1.41	1.33
1	hq	40	PHE	CA-C	5.96	1.60	1.52
1	hy	50	GLN	CA-C	5.96	1.60	1.52
1	hH	162	ARG	N-CA	-5.96	1.38	1.46
1	ij	175	GLU	N-CA	-5.96	1.39	1.46
1	il	120	HIS	CG-ND1	-5.96	1.31	1.38
1	iJ	213	GLU	C-O	-5.96	1.17	1.24
1	j2	229	ARG	CA-CB	5.96	1.61	1.53
1	j8	51	ASP	N-CA	-5.96	1.39	1.46
1	jc	30	LYS	C-N	5.96	1.41	1.33
1	jC	15	ILE	CA-C	5.96	1.59	1.52
1	kD	169	TYR	N-CA	-5.96	1.38	1.46
1	23	189	LEU	N-CA	5.96	1.53	1.46
1	26	75	GLU	CA-CB	5.96	1.62	1.53
1	l9	204	ALA	C-N	-5.96	1.25	1.33
1	lA	123	PRO	CA-C	5.96	1.59	1.52
1	29	131	LYS	N-CA	5.96	1.53	1.46
1	2q	12	HIS	CG-CD2	5.96	1.42	1.35
1	2u	223	GLY	CA-C	5.96	1.60	1.51
1	2w	103	ASP	CA-CB	5.96	1.62	1.53
1	2B	107	THR	CA-CB	5.96	1.62	1.53
1	39	18	ARG	CZ-NH2	-5.96	1.25	1.33
1	3n	225	GLY	CA-C	-5.96	1.43	1.51
1	3H	143	ARG	CA-C	5.96	1.60	1.52
1	3Z	22	ALA	N-CA	-5.96	1.39	1.46
1	4c	183	ASN	CA-CB	5.96	1.62	1.53
1	4d	178	SER	C-O	-5.96	1.16	1.23
1	4e	189	LEU	CA-C	-5.96	1.44	1.52
1	4h	96	MET	CA-CB	5.96	1.63	1.53
1	4i	226	HIS	ND1-CE1	5.96	1.38	1.32
1	56	168	PHE	CA-CB	5.96	1.62	1.53
1	56	210	THR	CA-C	5.96	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	59	87	HIS	C-N	5.96	1.41	1.33
1	5k	117	TRP	C-N	5.96	1.42	1.33
1	5O	28	GLU	CA-CB	5.96	1.62	1.53
1	5S	226	HIS	CE1-NE2	5.96	1.38	1.32
1	7b	138	LEU	CA-CB	5.96	1.62	1.53
1	7g	16	SER	CA-C	5.96	1.61	1.52
1	7k	97	ARG	C-N	5.96	1.41	1.33
1	7H	84	HIS	CD2-NE2	5.96	1.44	1.37
1	82	114	GLN	N-CA	5.96	1.53	1.46
1	88	87	HIS	ND1-CE1	5.96	1.38	1.32
1	8P	103	ASP	C-N	5.96	1.41	1.33
1	9i	189	LEU	N-CA	5.96	1.53	1.46
1	9A	219	GLN	C-N	5.96	1.42	1.33
1	9G	118	MET	CA-CB	5.96	1.63	1.53
1	9R	139	ASN	N-CA	5.96	1.53	1.46
1	9Z	104	ILE	C-N	5.96	1.42	1.33
1	an	148	THR	CA-C	-5.96	1.45	1.53
1	aE	210	THR	N-CA	5.96	1.53	1.45
1	1d	102	SER	N-CA	5.96	1.53	1.46
1	dc	53	ASN	CA-C	5.96	1.60	1.52
1	dA	226	HIS	CA-CB	5.96	1.62	1.53
1	dB	39	MET	CA-CB	5.96	1.62	1.53
1	dG	3	VAL	N-CA	-5.96	1.39	1.46
1	e9	184	TRP	NE1-CE2	-5.96	1.30	1.37
1	ei	7	GLN	C-N	-5.96	1.25	1.33
1	f6	145	TYR	CA-CB	5.96	1.61	1.53
1	fv	184	TRP	N-CA	5.96	1.53	1.46
1	fZ	60	GLY	N-CA	5.96	1.54	1.45
1	gj	33	SER	CA-CB	5.96	1.61	1.53
1	gT	138	LEU	C-O	-5.96	1.17	1.24
1	gW	146	SER	CA-CB	5.96	1.60	1.53
1	h7	82	ARG	CA-CB	5.96	1.62	1.53
1	hc	133	TRP	CA-C	5.96	1.60	1.52
1	i3	79	GLU	C-N	5.96	1.41	1.33
1	ij	149	SER	C-O	5.96	1.31	1.23
1	ir	52	LEU	CA-CB	5.96	1.62	1.53
1	ix	137	GLY	CA-C	-5.96	1.45	1.52
1	iE	221	VAL	C-N	5.96	1.42	1.33
1	iP	160	PRO	CA-C	5.96	1.59	1.52
1	iT	106	GLY	CA-C	-5.96	1.43	1.51
1	iY	82	ARG	CD-NE	5.96	1.54	1.46
1	jf	53	ASN	N-CA	5.96	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	js	1	PRO	N-CD	5.96	1.56	1.47
1	kn	125	PRO	N-CA	-5.96	1.43	1.47
1	kq	55	MET	CA-CB	5.96	1.62	1.53
1	lc	150	ILE	CB-CG1	5.96	1.65	1.53
1	lL	200	THR	N-CA	5.96	1.53	1.46
1	2c	201	ILE	N-CA	5.96	1.53	1.46
1	2m	229	ARG	N-CA	5.96	1.52	1.46
1	2u	33	SER	N-CA	-5.96	1.39	1.46
1	2u	207	PRO	C-N	5.96	1.41	1.33
1	2A	93	PRO	CA-CB	5.96	1.61	1.53
1	2F	69	LEU	CA-CB	5.96	1.62	1.53
1	2G	160	PRO	C-N	5.96	1.41	1.33
1	2J	64	ALA	N-CA	5.96	1.53	1.46
1	2P	109	SER	N-CA	-5.96	1.38	1.46
1	3K	42	ALA	C-N	5.96	1.42	1.34
1	5e	211	LEU	CA-C	5.96	1.60	1.52
1	5E	52	LEU	CA-C	5.96	1.60	1.52
1	5X	18	ARG	CD-NE	5.96	1.54	1.46
1	65	229	ARG	N-CA	-5.96	1.38	1.46
1	6m	96	MET	N-CA	-5.96	1.38	1.46
1	6u	78	ALA	C-O	-5.96	1.17	1.24
1	6z	26	VAL	CA-CB	5.96	1.62	1.54
1	6A	93	PRO	CA-C	-5.96	1.45	1.52
1	6E	120	HIS	CG-CD2	-5.96	1.29	1.35
1	6O	94	GLY	C-N	5.96	1.41	1.33
1	6P	175	GLU	C-N	5.96	1.41	1.33
1	77	90	PRO	CA-CB	5.96	1.61	1.53
1	7V	91	ILE	N-CA	5.96	1.53	1.46
1	8a	38	PRO	C-N	5.96	1.41	1.33
1	8N	23	TRP	CA-CB	5.96	1.62	1.53
1	9e	182	LYS	C-N	5.96	1.41	1.33
1	9S	225	GLY	CA-C	5.96	1.59	1.51
1	9Y	105	ALA	N-CA	-5.96	1.38	1.46
1	a1	107	THR	C-N	5.96	1.42	1.33
1	ac	31	ALA	N-CA	-5.96	1.39	1.47
1	12	185	MET	N-CA	-5.96	1.39	1.46
1	aX	129	ILE	CA-CB	-5.96	1.47	1.54
1	b3	143	ARG	N-CA	5.96	1.53	1.46
1	bO	33	SER	CA-CB	5.96	1.62	1.53
1	1b	64	ALA	C-N	5.96	1.42	1.33
1	cb	164	TYR	CA-C	5.96	1.60	1.52
1	1g	25	LYS	N-CA	-5.96	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dU	154	ARG	C-N	5.96	1.41	1.33
1	1o	37	ILE	CA-C	5.96	1.59	1.52
1	e5	8	GLY	N-CA	5.96	1.54	1.45
1	ea	169	TYR	N-CA	-5.96	1.38	1.46
1	ew	216	THR	C-N	5.96	1.41	1.33
1	eG	142	VAL	C-N	5.96	1.41	1.33
1	fz	111	LEU	CA-C	5.96	1.60	1.52
1	fC	226	HIS	CG-ND1	5.96	1.44	1.38
1	fK	184	TRP	C-O	-5.96	1.17	1.24
1	fN	126	VAL	CA-C	5.96	1.60	1.52
1	w	189	LEU	CA-CB	5.96	1.62	1.54
1	V	113	GLU	CA-C	5.96	1.60	1.52
1	h3	80	TRP	NE1-CE2	-5.96	1.30	1.37
1	ho	83	LEU	N-CA	5.96	1.53	1.46
1	hL	229	ARG	CA-CB	5.96	1.63	1.53
1	i5	87	HIS	CD2-NE2	5.96	1.44	1.37
1	ik	51	ASP	CA-CB	5.96	1.62	1.53
1	ir	206	GLY	C-N	5.96	1.39	1.33
1	jy	226	HIS	CA-CB	5.96	1.63	1.53
1	le	87	HIS	CE1-NE2	-5.96	1.26	1.32
1	lw	38	PRO	CA-CB	5.96	1.62	1.53
1	ly	214	MET	CA-CB	5.96	1.62	1.53
1	lM	90	PRO	N-CA	-5.96	1.40	1.47
1	2T	14	ALA	C-N	5.96	1.39	1.33
1	2Y	40	PHE	CA-CB	5.96	1.62	1.53
1	3u	80	TRP	N-CA	-5.96	1.39	1.46
1	3T	197	ASP	CA-CB	5.96	1.62	1.53
1	42	154	ARG	N-CA	5.96	1.53	1.45
1	4q	81	ASP	CA-C	5.96	1.60	1.52
1	5f	79	GLU	CA-CB	5.96	1.62	1.53
1	65	111	LEU	N-CA	-5.96	1.39	1.46
1	7H	62	HIS	CD2-NE2	5.96	1.44	1.37
1	7R	13	GLN	CA-C	-5.96	1.45	1.52
1	8z	53	ASN	CA-CB	5.96	1.62	1.53
1	aq	227	LYS	CA-CB	5.96	1.62	1.53
1	aI	128	GLU	CA-CB	5.96	1.62	1.53
1	bD	84	HIS	CA-C	5.96	1.59	1.52
1	bL	115	ILE	N-CA	5.96	1.53	1.46
1	eB	112	GLN	CA-CB	5.96	1.62	1.53
1	eQ	226	HIS	CA-C	-5.96	1.45	1.52
1	fP	226	HIS	CE1-NE2	5.96	1.38	1.32
1	g5	135	ILE	C-N	5.96	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	12	HIS	CE1-NE2	-5.96	1.26	1.32
1	gk	163	ASP	CA-CB	5.95	1.62	1.53
1	gJ	18	ARG	CZ-NH2	-5.95	1.25	1.33
1	1H	12	HIS	CG-CD2	5.95	1.42	1.35
1	1I	82	ARG	NE-CZ	5.95	1.39	1.33
1	1I	120	HIS	CB-CG	-5.95	1.41	1.50
1	hh	123	PRO	N-CA	-5.95	1.40	1.47
1	hL	2	ILE	CA-CB	5.95	1.61	1.54
1	ia	98	GLU	CA-C	5.95	1.59	1.53
1	1P	184	TRP	C-N	5.95	1.41	1.33
1	iS	76	GLU	CA-CB	5.95	1.63	1.53
1	j2	114	GLN	C-N	5.95	1.41	1.33
1	je	228	ALA	CA-CB	5.95	1.63	1.53
1	jm	126	VAL	CA-CB	-5.95	1.47	1.54
1	jt	84	HIS	C-O	-5.95	1.20	1.25
1	jC	219	GLN	C-N	5.95	1.42	1.33
1	jH	149	SER	C-N	5.95	1.41	1.33
1	jR	230	VAL	CA-CB	5.95	1.60	1.54
1	jT	27	VAL	N-CA	-5.95	1.39	1.46
1	k3	127	GLY	CA-C	-5.95	1.43	1.51
1	lx	70	LYS	CA-CB	-5.95	1.44	1.53
1	2n	168	PHE	C-N	5.95	1.41	1.33
1	2x	204	ALA	CA-C	-5.95	1.45	1.52
1	2J	110	THR	N-CA	-5.95	1.38	1.45
1	2O	59	VAL	C-N	5.95	1.42	1.33
1	2P	120	HIS	CE1-NE2	5.95	1.38	1.32
1	2Q	204	ALA	N-CA	-5.95	1.39	1.46
1	2V	31	ALA	C-O	-5.95	1.19	1.24
1	3e	225	GLY	CA-C	-5.95	1.44	1.52
1	3s	19	THR	C-N	5.95	1.41	1.33
1	4H	120	HIS	CD2-NE2	5.95	1.44	1.37
1	5s	152	ASP	C-N	5.95	1.40	1.33
1	5I	114	GLN	N-CA	5.95	1.53	1.46
1	6b	177	ALA	CA-C	5.95	1.60	1.52
1	6f	225	GLY	CA-C	5.95	1.57	1.52
1	6j	52	LEU	CA-C	-5.95	1.45	1.52
1	6l	52	LEU	CA-CB	5.95	1.62	1.53
1	6F	6	LEU	N-CA	5.95	1.53	1.46
1	7e	70	LYS	CA-C	-5.95	1.45	1.52
1	7h	5	ASN	CA-CB	5.95	1.63	1.53
1	7k	120	HIS	ND1-CE1	5.95	1.38	1.32
1	86	44	SER	N-CA	5.95	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8v	196	PRO	CA-CB	5.95	1.62	1.53
1	8w	67	GLN	N-CA	-5.95	1.38	1.46
1	8O	157	PRO	N-CA	-5.95	1.39	1.47
1	8X	43	LEU	CA-C	5.95	1.61	1.52
1	92	7	GLN	C-N	5.95	1.38	1.33
1	9l	163	ASP	C-N	5.95	1.41	1.33
1	9l	176	GLN	CA-CB	5.95	1.61	1.53
1	9Q	192	GLN	CA-C	5.95	1.60	1.52
1	a2	172	LEU	CA-C	-5.95	1.44	1.52
1	a4	173	ARG	NE-CZ	-5.95	1.26	1.33
1	a7	229	ARG	CA-CB	5.95	1.62	1.53
1	12	12	HIS	ND1-CE1	5.95	1.38	1.32
1	aF	11	VAL	CA-C	-5.95	1.45	1.52
1	aS	182	LYS	C-N	5.95	1.41	1.33
1	bi	17	PRO	C-O	-5.95	1.16	1.24
1	bM	225	GLY	CA-C	-5.95	1.44	1.51
1	c9	154	ARG	CD-NE	5.95	1.54	1.46
1	d3	191	VAL	N-CA	-5.95	1.39	1.46
1	db	195	ASN	CA-CB	5.95	1.62	1.53
1	dV	111	LEU	CA-CB	5.95	1.63	1.53
1	dY	137	GLY	N-CA	5.95	1.53	1.45
1	ew	146	SER	CA-C	5.95	1.60	1.52
1	eV	7	GLN	CA-C	5.95	1.60	1.52
1	fy	97	ARG	CA-C	-5.95	1.45	1.52
1	fF	70	LYS	C-N	5.95	1.41	1.33
1	fR	148	THR	CA-C	-5.95	1.45	1.52
1	fW	168	PHE	C-N	5.95	1.42	1.34
1	fY	128	GLU	C-N	5.95	1.41	1.33
1	g0	221	VAL	C-N	5.95	1.42	1.33
1	r	66	MET	N-CA	-5.95	1.39	1.46
1	v	196	PRO	C-N	5.95	1.42	1.34
1	E	31	ALA	CA-CB	5.95	1.63	1.53
1	F	24	VAL	N-CA	5.95	1.53	1.46
1	gt	114	GLN	C-N	5.95	1.41	1.33
1	i6	172	LEU	N-CA	-5.95	1.38	1.46
1	iO	173	ARG	CA-CB	5.95	1.63	1.53
1	iQ	119	THR	C-N	5.95	1.41	1.33
1	kt	222	GLY	CA-C	-5.95	1.46	1.52
1	kw	63	GLN	N-CA	-5.95	1.38	1.46
1	kG	140	LYS	N-CA	5.95	1.53	1.46
1	le	83	LEU	C-O	-5.95	1.17	1.24
1	lI	155	GLN	C-N	5.95	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lK	148	THR	C-N	5.95	1.41	1.33
1	2v	54	THR	CA-C	5.95	1.60	1.52
1	32	29	GLU	N-CA	-5.95	1.39	1.46
1	3v	185	MET	C-N	5.95	1.41	1.33
1	4s	125	PRO	CA-C	-5.95	1.44	1.52
1	4B	5	ASN	CA-C	5.95	1.60	1.52
1	5z	46	GLY	C-N	5.95	1.41	1.33
1	6U	189	LEU	CA-CB	5.95	1.61	1.54
1	6V	203	LYS	C-N	5.95	1.42	1.33
1	77	195	ASN	CA-CB	5.95	1.62	1.53
1	an	168	PHE	N-CA	-5.95	1.39	1.46
1	at	37	ILE	CA-C	5.95	1.59	1.52
1	aA	27	VAL	C-N	5.95	1.41	1.34
1	aQ	224	PRO	CA-C	5.95	1.60	1.52
1	dn	154	ARG	CZ-NH2	-5.95	1.25	1.33
1	dB	69	LEU	CB-CG	5.95	1.65	1.53
1	dF	225	GLY	CA-C	5.95	1.57	1.51
1	dK	211	LEU	CA-CB	5.95	1.62	1.53
1	fH	52	LEU	CA-CB	5.95	1.62	1.53
1	g9	181	VAL	CA-CB	-5.95	1.47	1.54
1	gt	32	PHE	CA-CB	5.95	1.61	1.53
1	hN	187	GLU	N-CA	-5.95	1.39	1.46
1	it	124	ILE	N-CA	5.95	1.50	1.46
1	iT	125	PRO	N-CA	5.95	1.51	1.47
1	jC	165	VAL	N-CA	-5.95	1.39	1.46
1	kf	37	ILE	CA-CB	5.95	1.57	1.53
1	kf	229	ARG	CA-CB	5.95	1.62	1.53
1	ko	146	SER	CA-C	5.95	1.59	1.52
1	l3	18	ARG	CA-C	5.95	1.60	1.52
1	le	193	ASN	CA-CB	5.95	1.62	1.53
1	lm	196	PRO	C-N	5.95	1.41	1.33
1	lP	131	LYS	N-CA	5.95	1.53	1.46
1	2t	73	ILE	CA-C	5.95	1.60	1.52
1	39	60	GLY	N-CA	-5.95	1.38	1.45
1	3d	167	ARG	CZ-NH2	-5.95	1.25	1.33
1	3O	12	HIS	CA-CB	5.95	1.62	1.53
1	4K	70	LYS	C-O	5.95	1.31	1.24
1	5j	180	GLU	CA-CB	5.95	1.62	1.53
1	5k	79	GLU	CA-C	5.95	1.60	1.52
1	6a	133	TRP	C-N	5.95	1.41	1.33
1	6d	182	LYS	CA-C	-5.95	1.45	1.52
1	6e	67	GLN	C-N	-5.95	1.25	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6g	201	ILE	CA-CB	5.95	1.61	1.54
1	6s	105	ALA	C-N	5.95	1.39	1.33
1	6V	195	ASN	CA-CB	5.95	1.62	1.53
1	85	160	PRO	CA-C	5.95	1.59	1.52
1	8z	113	GLU	N-CA	-5.95	1.38	1.46
1	9f	36	VAL	CA-CB	-5.95	1.48	1.54
1	9Q	215	MET	CA-CB	-5.95	1.43	1.53
1	9R	16	SER	CA-C	5.95	1.60	1.53
1	9U	87	HIS	ND1-CE1	5.95	1.38	1.32
1	ak	99	PRO	C-O	-5.95	1.17	1.23
1	aD	111	LEU	CA-C	5.95	1.60	1.52
1	aF	193	ASN	N-CA	5.95	1.54	1.45
1	b1	11	VAL	C-O	5.95	1.30	1.23
1	bh	226	HIS	N-CA	-5.95	1.39	1.46
1	bw	102	SER	CA-CB	5.95	1.62	1.53
1	bR	134	ILE	CA-C	-5.95	1.45	1.52
1	c7	167	ARG	CD-NE	5.95	1.54	1.46
1	cu	100	ARG	CD-NE	5.95	1.54	1.46
1	cQ	193	ASN	CA-CB	5.95	1.64	1.53
1	df	227	LYS	C-N	5.95	1.41	1.33
1	dA	122	PRO	CA-C	5.95	1.57	1.52
1	dP	54	THR	N-CA	5.95	1.53	1.46
1	dQ	63	GLN	C-N	5.95	1.41	1.33
1	dU	213	GLU	CA-CB	5.95	1.62	1.53
1	dX	19	THR	CA-C	5.95	1.60	1.52
1	1p	4	GLN	N-CA	-5.95	1.38	1.46
1	eg	47	ALA	C-O	5.95	1.31	1.23
1	eq	40	PHE	CA-CB	5.95	1.62	1.53
1	f4	154	ARG	CD-NE	5.95	1.54	1.46
1	fe	28	GLU	C-N	5.95	1.41	1.33
1	1w	93	PRO	C-N	5.95	1.41	1.33
1	g5	140	LYS	C-O	5.95	1.31	1.24
1	g	155	GLN	CA-C	5.95	1.60	1.52
1	m	129	ILE	CA-C	5.95	1.60	1.52
1	n	187	GLU	C-N	5.95	1.41	1.33
1	C	23	TRP	C-N	5.95	1.41	1.33
1	X	50	GLN	CA-C	5.95	1.60	1.52
1	gj	2	ILE	N-CA	5.95	1.53	1.46
1	hj	110	THR	N-CA	-5.95	1.38	1.45
1	jc	81	ASP	CA-C	5.95	1.60	1.52
1	jr	45	GLU	C-N	5.95	1.41	1.33
1	1W	131	LYS	C-N	5.95	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jQ	224	PRO	CA-C	5.95	1.61	1.52
1	k0	109	SER	C-N	-5.95	1.26	1.33
1	kc	95	GLN	N-CA	-5.95	1.39	1.46
1	kg	77	ALA	CA-C	5.95	1.60	1.52
1	kr	36	VAL	CA-CB	-5.95	1.46	1.54
1	kz	192	GLN	C-O	-5.95	1.17	1.24
1	kC	226	HIS	CD2-NE2	5.95	1.44	1.37
1	l6	3	VAL	CA-CB	-5.95	1.47	1.54
1	lb	128	GLU	N-CA	5.95	1.53	1.46
1	lJ	168	PHE	CA-C	-5.95	1.45	1.52
1	2s	183	ASN	C-N	5.95	1.41	1.33
1	2F	109	SER	C-N	-5.95	1.25	1.33
1	38	50	GLN	CA-C	5.95	1.60	1.52
1	3n	154	ARG	CD-NE	5.95	1.54	1.46
1	3o	11	VAL	CA-C	-5.95	1.45	1.52
1	3p	86	VAL	CA-C	-5.95	1.45	1.52
1	3s	143	ARG	N-CA	-5.95	1.39	1.46
1	3G	57	ASN	N-CA	-5.95	1.37	1.46
1	3S	227	LYS	CA-CB	5.95	1.62	1.53
1	4u	87	HIS	ND1-CE1	5.95	1.38	1.32
1	4x	27	VAL	CA-CB	5.95	1.61	1.54
1	4U	104	ILE	CA-C	-5.95	1.45	1.52
1	5g	151	LEU	N-CA	5.95	1.54	1.46
1	5o	225	GLY	N-CA	5.95	1.53	1.45
1	5s	87	HIS	CA-C	5.95	1.59	1.52
1	5B	61	GLY	C-N	5.95	1.42	1.33
1	5I	148	THR	N-CA	-5.95	1.38	1.45
1	67	84	HIS	ND1-CE1	5.95	1.38	1.32
1	6e	62	HIS	ND1-CE1	5.95	1.38	1.32
1	6V	30	LYS	N-CA	5.95	1.54	1.45
1	7G	221	VAL	C-N	5.95	1.42	1.33
1	7O	224	PRO	CA-CB	5.95	1.61	1.53
1	7Q	70	LYS	CA-C	5.95	1.60	1.52
1	8j	173	ARG	CA-CB	5.95	1.63	1.53
1	8q	169	TYR	C-O	5.95	1.31	1.24
1	8x	61	GLY	CA-C	-5.95	1.45	1.52
1	9x	134	ILE	CA-C	5.95	1.60	1.52
1	12	42	ALA	CA-CB	5.95	1.62	1.53
1	aB	37	ILE	N-CA	5.95	1.53	1.46
1	aD	67	GLN	CA-C	5.95	1.60	1.52
1	b7	56	LEU	CA-CB	5.95	1.62	1.53
1	bl	168	PHE	C-N	5.95	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bJ	219	GLN	CA-C	-5.95	1.45	1.52
1	c7	72	THR	C-N	5.95	1.41	1.33
1	ca	59	VAL	CA-CB	-5.95	1.46	1.53
1	cg	228	ALA	N-CA	5.95	1.52	1.45
1	cO	138	LEU	C-O	-5.95	1.17	1.24
1	dq	183	ASN	CA-CB	5.95	1.62	1.53
1	dU	41	SER	CA-CB	5.95	1.62	1.53
1	dX	91	ILE	CA-CB	-5.95	1.47	1.54
1	eb	74	ASN	CA-C	5.95	1.60	1.52
1	eB	23	TRP	C-O	-5.95	1.17	1.24
1	f3	80	TRP	C-N	5.95	1.41	1.33
1	fd	41	SER	CA-CB	5.95	1.62	1.53
1	fs	192	GLN	CA-C	5.95	1.60	1.52
1	fH	198	CYS	N-CA	-5.95	1.39	1.46
1	fN	214	MET	CA-C	-5.95	1.45	1.52
1	fO	70	LYS	N-CA	5.95	1.53	1.46
1	g0	10	MET	N-CA	5.95	1.53	1.46
1	1	121	ASN	CA-C	-5.95	1.47	1.52
1	C	91	ILE	N-CA	5.95	1.53	1.46
1	D	112	GLN	CA-C	5.95	1.60	1.52
1	M	202	LEU	CA-CB	5.95	1.62	1.53
1	R	214	MET	CA-C	-5.95	1.45	1.52
1	h0	165	VAL	CA-C	5.95	1.60	1.52
1	ho	39	MET	C-N	5.95	1.41	1.33
1	ie	185	MET	CA-C	5.95	1.60	1.52
1	ii	100	ARG	CD-NE	5.95	1.54	1.46
1	jc	180	GLU	C-N	5.95	1.41	1.33
1	jO	11	VAL	CA-CB	-5.95	1.46	1.54
1	kP	201	ILE	CA-CB	5.95	1.62	1.54
1	lh	29	GLU	N-CA	-5.95	1.39	1.46
1	2M	81	ASP	CA-CB	5.95	1.62	1.53
1	4w	230	VAL	CA-CB	-5.95	1.47	1.54
1	5O	46	GLY	C-O	-5.95	1.20	1.24
1	61	127	GLY	C-N	5.95	1.42	1.34
1	6N	133	TRP	CA-CB	5.95	1.62	1.53
1	79	76	GLU	N-CA	-5.95	1.38	1.46
1	7K	135	ILE	CB-CG1	5.95	1.65	1.53
1	7P	213	GLU	CA-CB	5.95	1.62	1.53
1	7V	24	VAL	N-CA	5.95	1.53	1.46
1	81	72	THR	C-N	5.95	1.41	1.33
1	8f	26	VAL	CA-CB	5.95	1.61	1.54
1	9C	169	TYR	CA-C	-5.95	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	10	23	TRP	CA-CB	5.95	1.62	1.53
1	bn	75	GLU	CA-CB	5.95	1.62	1.53
1	ck	143	ARG	CA-CB	5.95	1.62	1.53
1	1e	172	LEU	C-O	-5.95	1.17	1.24
1	d0	116	GLY	N-CA	5.95	1.53	1.45
1	db	141	ILE	N-CA	5.95	1.53	1.46
1	dL	185	MET	C-N	5.95	1.41	1.33
1	dP	72	THR	N-CA	5.95	1.53	1.46
1	1o	155	GLN	CA-CB	5.95	1.61	1.53
1	e3	5	ASN	CA-CB	5.95	1.63	1.53
1	es	21	ASN	CA-C	5.95	1.60	1.52
1	eA	137	GLY	C-O	-5.95	1.17	1.24
1	eO	121	ASN	C-O	5.95	1.32	1.25
1	fe	189	LEU	N-CA	-5.95	1.38	1.46
1	R	139	ASN	N-CA	5.95	1.53	1.46
1	gc	3	VAL	CA-C	5.95	1.59	1.52
1	ge	32	PHE	CA-C	-5.95	1.45	1.52
1	gH	92	GLU	CA-C	5.95	1.59	1.53
1	hi	191	VAL	CA-C	-5.95	1.45	1.52
1	hy	99	PRO	CA-CB	5.95	1.61	1.53
1	1K	69	LEU	C-N	5.95	1.41	1.33
1	hZ	96	MET	CA-C	-5.95	1.45	1.52
1	iv	26	VAL	CA-CB	-5.95	1.47	1.54
1	iA	79	GLU	C-N	5.95	1.41	1.33
1	jx	24	VAL	CA-CB	-5.95	1.47	1.54
1	k0	49	PRO	CA-CB	5.95	1.62	1.53
1	kl	199	LYS	CA-CB	5.95	1.62	1.53
1	kA	192	GLN	CA-CB	5.95	1.62	1.53
1	lJ	19	THR	C-O	5.95	1.31	1.24
1	2a	23	TRP	CA-CB	5.95	1.62	1.53
1	2o	67	GLN	CA-CB	5.95	1.62	1.53
1	2o	212	GLU	N-CA	-5.95	1.39	1.46
1	2p	144	MET	CA-C	-5.95	1.45	1.52
1	2A	16	SER	CA-CB	5.95	1.64	1.53
1	2A	178	SER	CA-C	5.95	1.61	1.53
1	3m	145	TYR	CA-CB	5.95	1.63	1.53
1	3w	185	MET	C-N	5.95	1.41	1.33
1	3B	195	ASN	N-CA	-5.95	1.37	1.46
1	3Y	188	THR	CA-CB	5.95	1.62	1.53
1	43	17	PRO	C-O	5.95	1.31	1.24
1	4a	189	LEU	CA-C	-5.95	1.45	1.52
1	4s	130	TYR	N-CA	5.95	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	55	149	SER	CA-CB	5.95	1.62	1.53
1	5B	141	ILE	CA-CB	-5.95	1.46	1.54
1	5F	180	GLU	C-N	5.95	1.41	1.33
1	5R	88	ALA	CA-CB	5.95	1.60	1.53
1	66	166	ASP	CA-CB	5.95	1.62	1.53
1	6p	207	PRO	C-N	5.95	1.41	1.33
1	6t	196	PRO	CA-CB	5.95	1.62	1.53
1	75	104	ILE	CA-C	-5.95	1.45	1.52
1	8c	44	SER	N-CA	5.95	1.53	1.46
1	aM	61	GLY	N-CA	5.95	1.53	1.45
1	bh	139	ASN	CA-CB	5.95	1.62	1.53
1	bi	51	ASP	N-CA	5.95	1.53	1.46
1	1b	70	LYS	N-CA	-5.95	1.39	1.46
1	cQ	113	GLU	CA-CB	5.95	1.62	1.53
1	d3	56	LEU	CA-C	5.95	1.60	1.52
1	di	130	TYR	CA-C	5.95	1.60	1.52
1	ds	124	ILE	CA-C	5.95	1.58	1.52
1	dz	26	VAL	CA-CB	-5.95	1.46	1.54
1	dE	23	TRP	CA-CB	5.95	1.62	1.53
1	dI	182	LYS	C-N	5.95	1.41	1.33
1	dZ	28	GLU	CA-CB	5.95	1.62	1.53
1	ep	183	ASN	C-N	5.95	1.41	1.33
1	ew	201	ILE	N-CA	5.95	1.53	1.46
1	ey	11	VAL	CA-C	-5.95	1.45	1.52
1	eP	182	LYS	CA-CB	5.95	1.62	1.53
1	1z	16	SER	CA-C	5.95	1.59	1.53
1	g1	62	HIS	CD2-NE2	-5.95	1.31	1.37
1	g3	211	LEU	C-N	5.95	1.41	1.33
1	j	22	ALA	CA-C	5.95	1.60	1.52
1	s	111	LEU	N-CA	-5.95	1.39	1.46
1	R	224	PRO	N-CA	-5.95	1.39	1.47
1	hG	120	HIS	CB-CG	5.94	1.58	1.50
1	iK	37	ILE	C-N	5.94	1.42	1.34
1	jQ	95	GLN	N-CA	-5.94	1.38	1.45
1	36	137	GLY	N-CA	5.94	1.53	1.45
1	3y	162	ARG	CA-C	-5.94	1.44	1.52
1	3z	224	PRO	C-N	5.94	1.39	1.33
1	3B	167	ARG	CZ-NH1	-5.94	1.24	1.32
1	3D	20	LEU	N-CA	-5.94	1.39	1.46
1	3V	205	LEU	CA-C	5.94	1.60	1.52
1	41	124	ILE	N-CA	-5.94	1.39	1.46
1	4v	50	GLN	N-CA	5.94	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4Z	49	PRO	C-N	5.94	1.42	1.34
1	5Y	37	ILE	C-O	-5.94	1.19	1.24
1	7c	143	ARG	CD-NE	5.94	1.54	1.46
1	97	184	TRP	CA-C	5.94	1.60	1.52
1	bm	62	HIS	CE1-NE2	5.94	1.38	1.32
1	cx	86	VAL	CA-C	5.94	1.60	1.52
1	cA	160	PRO	CA-C	5.94	1.59	1.52
1	cR	23	TRP	CA-CB	5.94	1.62	1.53
1	dk	181	VAL	CA-CB	5.94	1.61	1.54
1	dC	126	VAL	CA-C	5.94	1.60	1.52
1	eq	161	PHE	N-CA	-5.94	1.38	1.46
1	fT	224	PRO	C-N	5.94	1.40	1.33
1	0	146	SER	CA-C	-5.94	1.46	1.53
1	i	213	GLU	C-N	5.94	1.42	1.34
1	gm	203	LYS	N-CA	5.94	1.53	1.46
1	gu	157	PRO	N-CA	-5.94	1.40	1.47
1	1K	119	THR	N-CA	-5.94	1.38	1.46
1	hC	87	HIS	CG-CD2	5.94	1.42	1.35
1	hR	211	LEU	C-O	-5.94	1.16	1.24
1	hT	120	HIS	CB-CG	5.94	1.58	1.50
1	hV	12	HIS	N-CA	-5.94	1.38	1.46
1	hY	23	TRP	N-CA	-5.94	1.39	1.46
1	1Q	211	LEU	CA-C	5.94	1.60	1.52
1	iz	220	GLY	CA-C	-5.94	1.48	1.51
1	jd	183	ASN	N-CA	-5.94	1.39	1.46
1	jt	37	ILE	CB-CG1	5.94	1.65	1.53
1	jH	161	PHE	CA-C	5.94	1.60	1.52
1	jZ	14	ALA	CA-C	5.94	1.60	1.52
1	k3	35	GLU	C-N	5.94	1.41	1.33
1	kA	160	PRO	CA-CB	5.94	1.62	1.53
1	24	64	ALA	CA-CB	5.94	1.62	1.53
1	l0	111	LEU	N-CA	5.94	1.53	1.46
1	le	73	ILE	C-N	5.94	1.41	1.33
1	ll	9	GLN	N-CA	5.94	1.53	1.46
1	lt	183	ASN	C-N	5.94	1.41	1.33
1	lC	12	HIS	C-N	5.94	1.41	1.33
1	2p	55	MET	C-O	-5.94	1.17	1.24
1	2p	113	GLU	CA-C	-5.94	1.45	1.52
1	3C	115	ILE	C-N	5.94	1.41	1.33
1	3M	134	ILE	C-O	-5.94	1.17	1.24
1	4c	170	LYS	C-N	-5.94	1.26	1.33
1	4f	62	HIS	C-N	5.94	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4R	170	LYS	N-CA	-5.94	1.39	1.46
1	5a	25	LYS	C-N	5.94	1.41	1.33
1	5l	116	GLY	C-N	5.94	1.42	1.33
1	5I	103	ASP	CA-CB	5.94	1.62	1.53
1	5J	33	SER	C-O	5.94	1.29	1.24
1	5V	203	LYS	C-N	5.94	1.41	1.33
1	6b	12	HIS	CB-CG	-5.94	1.41	1.50
1	6R	132	ARG	C-N	5.94	1.41	1.33
1	76	134	ILE	CA-C	-5.94	1.45	1.52
1	7i	228	ALA	N-CA	-5.94	1.38	1.46
1	7D	156	GLY	C-N	-5.94	1.26	1.34
1	85	180	GLU	C-N	5.94	1.41	1.33
1	89	91	ILE	CA-C	5.94	1.59	1.52
1	8V	10	MET	N-CA	-5.94	1.38	1.45
1	9C	59	VAL	CA-C	-5.94	1.45	1.52
1	a8	7	GLN	CA-C	-5.94	1.45	1.52
1	aq	1	PRO	N-CA	5.94	1.55	1.47
1	ar	199	LYS	C-N	5.94	1.41	1.33
1	as	104	ILE	CA-C	5.94	1.60	1.52
1	b1	81	ASP	N-CA	-5.94	1.38	1.46
1	b9	193	ASN	N-CA	5.94	1.53	1.46
1	bg	63	GLN	CA-CB	5.94	1.62	1.53
1	bo	49	PRO	N-CD	-5.94	1.39	1.47
1	bv	11	VAL	CA-CB	5.94	1.64	1.55
1	bz	82	ARG	CA-CB	5.94	1.62	1.53
1	bU	129	ILE	C-N	5.94	1.41	1.33
1	c3	35	GLU	CA-C	5.94	1.61	1.52
1	cj	208	ALA	CA-C	5.94	1.61	1.52
1	cM	150	ILE	N-CA	5.94	1.53	1.46
1	cZ	159	GLU	CA-C	5.94	1.60	1.53
1	dQ	53	ASN	N-CA	-5.94	1.39	1.46
1	ed	126	VAL	CA-C	5.94	1.60	1.52
1	eZ	50	GLN	C-N	5.94	1.41	1.33
1	f3	178	SER	C-O	-5.94	1.16	1.23
1	f7	25	LYS	N-CA	-5.94	1.39	1.46
1	fn	181	VAL	C-N	5.94	1.42	1.34
1	fp	19	THR	N-CA	5.94	1.53	1.46
1	ft	139	ASN	C-N	5.94	1.41	1.33
1	fC	147	PRO	N-CA	-5.94	1.39	1.47
1	s	169	TYR	N-CA	5.94	1.53	1.46
1	gI	97	ARG	CD-NE	5.94	1.54	1.46
1	he	120	HIS	CD2-NE2	5.94	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	if	143	ARG	N-CA	-5.94	1.37	1.45
1	1R	15	ILE	CA-C	-5.94	1.45	1.52
1	iQ	128	GLU	C-N	5.94	1.41	1.33
1	iX	5	ASN	C-N	5.94	1.41	1.33
1	1U	62	HIS	CA-CB	5.94	1.62	1.53
1	je	67	GLN	N-CA	-5.94	1.39	1.46
1	jx	8	GLY	C-N	5.94	1.41	1.33
1	1Y	5	ASN	N-CA	-5.94	1.38	1.45
1	20	33	SER	CA-C	5.94	1.60	1.52
1	kk	20	LEU	C-N	-5.94	1.26	1.33
1	kv	103	ASP	C-O	-5.94	1.17	1.24
1	kx	131	LYS	C-N	5.94	1.41	1.33
1	l7	166	ASP	N-CA	-5.94	1.39	1.46
1	le	97	ARG	N-CA	5.94	1.53	1.45
1	28	162	ARG	N-CA	5.94	1.53	1.46
1	ly	36	VAL	N-CA	-5.94	1.38	1.46
1	lD	181	VAL	CA-CB	-5.94	1.47	1.54
1	2t	190	LEU	C-N	5.94	1.41	1.33
1	2X	134	ILE	CA-C	-5.94	1.45	1.52
1	34	28	GLU	CA-CB	5.94	1.62	1.53
1	3c	140	LYS	CA-C	5.94	1.60	1.52
1	3W	5	ASN	CA-CB	5.94	1.61	1.53
1	4T	189	LEU	CB-CG	5.94	1.65	1.53
1	5d	87	HIS	CB-CG	5.94	1.58	1.50
1	5p	1	PRO	N-CD	5.94	1.56	1.47
1	5S	114	GLN	C-N	5.94	1.41	1.33
1	5W	212	GLU	N-CA	5.94	1.53	1.46
1	61	62	HIS	CD2-NE2	-5.94	1.31	1.37
1	6j	99	PRO	N-CA	-5.94	1.40	1.47
1	6t	7	GLN	CA-C	5.94	1.60	1.52
1	6t	203	LYS	CA-C	5.94	1.60	1.52
1	6Z	23	TRP	N-CA	-5.94	1.39	1.46
1	76	128	GLU	CA-CB	5.94	1.62	1.53
1	7q	8	GLY	N-CA	5.94	1.50	1.45
1	85	10	MET	CA-CB	-5.94	1.43	1.53
1	87	168	PHE	N-CA	-5.94	1.39	1.46
1	8d	84	HIS	CG-CD2	5.94	1.42	1.35
1	8F	141	ILE	CA-CB	5.94	1.61	1.54
1	9c	20	LEU	CA-CB	5.94	1.62	1.53
1	9m	84	HIS	CD2-NE2	5.94	1.44	1.37
1	9w	32	PHE	CA-CB	5.94	1.61	1.53
1	a0	29	GLU	CA-CB	5.94	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ao	46	GLY	N-CA	5.94	1.53	1.45
1	aF	139	ASN	CA-C	-5.94	1.44	1.52
1	aR	1	PRO	N-CD	5.94	1.56	1.47
1	bt	18	ARG	CD-NE	5.94	1.54	1.46
1	bu	143	ARG	CD-NE	5.94	1.54	1.46
1	bE	208	ALA	CA-C	-5.94	1.44	1.52
1	bI	32	PHE	C-N	5.94	1.40	1.32
1	c8	116	GLY	C-N	5.94	1.41	1.33
1	dl	188	THR	N-CA	-5.94	1.38	1.46
1	dM	113	GLU	CA-CB	5.94	1.62	1.53
1	eF	226	HIS	CG-CD2	5.94	1.42	1.35
1	1u	154	ARG	CA-CB	5.94	1.64	1.53
1	fR	176	GLN	CA-CB	5.94	1.63	1.53
1	fY	75	GLU	CA-CB	5.94	1.62	1.53
1	l	40	PHE	C-N	5.94	1.41	1.33
1	q	177	ALA	C-N	5.94	1.41	1.33
1	r	82	ARG	CD-NE	5.94	1.54	1.46
1	v	159	GLU	CA-CB	5.94	1.62	1.52
1	8	172	LEU	CA-C	5.94	1.60	1.52
1	jU	118	MET	C-N	5.94	1.42	1.33
1	l7	226	HIS	ND1-CE1	5.94	1.38	1.32
1	li	57	ASN	N-CA	-5.94	1.38	1.46
1	lr	27	VAL	CA-CB	5.94	1.62	1.54
1	2a	79	GLU	CA-CB	5.94	1.62	1.53
1	2q	23	TRP	N-CA	5.94	1.53	1.46
1	2z	176	GLN	CA-C	-5.94	1.45	1.53
1	31	66	MET	CA-C	5.94	1.60	1.52
1	3b	200	THR	CA-CB	5.94	1.62	1.53
1	59	20	LEU	C-O	-5.94	1.17	1.24
1	5Z	186	THR	CB-OG1	-5.94	1.34	1.43
1	6Z	203	LYS	N-CA	-5.94	1.39	1.46
1	7h	216	THR	N-CA	5.94	1.53	1.46
1	7k	96	MET	CA-C	-5.94	1.45	1.52
1	84	143	ARG	C-N	5.94	1.41	1.33
1	8b	136	LEU	CA-C	5.94	1.60	1.52
1	ad	202	LEU	C-N	5.94	1.41	1.33
1	ag	226	HIS	CA-C	5.94	1.61	1.53
1	aK	78	ALA	C-N	5.94	1.41	1.33
1	bq	80	TRP	N-CA	5.94	1.53	1.46
1	by	128	GLU	C-O	-5.94	1.17	1.24
1	bQ	17	PRO	N-CD	5.94	1.56	1.47
1	cZ	203	LYS	C-N	5.94	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dD	189	LEU	CA-CB	5.94	1.62	1.53
1	dU	202	LEU	C-N	5.94	1.42	1.33
1	1y	68	MET	CA-CB	-5.94	1.43	1.53
1	gd	156	GLY	CA-C	5.94	1.60	1.51
1	ge	73	ILE	CA-C	-5.94	1.45	1.52
1	hg	101	GLY	N-CA	5.94	1.53	1.45
1	hh	9	GLN	C-N	5.94	1.41	1.33
1	hq	172	LEU	CA-CB	5.94	1.62	1.53
1	i1	80	TRP	C-N	-5.94	1.26	1.33
1	1N	20	LEU	N-CA	5.94	1.53	1.46
1	j3	120	HIS	CE1-NE2	5.94	1.38	1.32
1	jm	64	ALA	N-CA	5.94	1.53	1.46
1	js	134	ILE	CA-CB	5.94	1.61	1.54
1	jB	124	ILE	N-CA	-5.94	1.42	1.46
1	jE	176	GLN	N-CA	5.94	1.53	1.46
1	jH	121	ASN	CA-C	5.94	1.59	1.52
1	kA	97	ARG	CD-NE	5.94	1.54	1.46
1	kI	123	PRO	CA-C	-5.94	1.45	1.52
1	24	18	ARG	CD-NE	5.94	1.54	1.46
1	kO	137	GLY	N-CA	-5.94	1.38	1.45
1	lt	98	GLU	CA-CB	5.94	1.63	1.52
1	lG	18	ARG	CD-NE	5.94	1.54	1.46
1	2N	117	TRP	C-O	-5.94	1.16	1.24
1	2Y	12	HIS	CE1-NE2	-5.94	1.26	1.32
1	2Z	151	LEU	C-N	5.94	1.42	1.33
1	3v	175	GLU	C-N	5.94	1.41	1.33
1	3w	57	ASN	N-CA	-5.94	1.38	1.46
1	3T	168	PHE	CA-CB	5.94	1.62	1.53
1	4u	195	ASN	N-CA	-5.94	1.37	1.45
1	4w	201	ILE	CA-CB	5.94	1.61	1.54
1	55	37	ILE	CA-C	5.94	1.59	1.52
1	5P	96	MET	N-CA	5.94	1.53	1.46
1	6a	139	ASN	CA-CB	5.94	1.63	1.53
1	6n	162	ARG	N-CA	5.94	1.53	1.46
1	6T	117	TRP	CA-CB	5.94	1.62	1.53
1	7b	195	ASN	CA-C	5.94	1.60	1.53
1	7j	118	MET	CA-C	5.94	1.61	1.52
1	7A	55	MET	CA-C	5.94	1.60	1.52
1	7I	37	ILE	CA-CB	5.94	1.57	1.53
1	7K	55	MET	CA-CB	5.94	1.62	1.53
1	7Y	70	LYS	CA-C	5.94	1.60	1.52
1	92	225	GLY	C-O	-5.94	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	94	183	ASN	CA-CB	5.94	1.63	1.53
1	9b	132	ARG	CD-NE	5.94	1.54	1.46
1	9d	114	GLN	CA-C	5.94	1.60	1.52
1	9i	39	MET	N-CA	5.94	1.53	1.46
1	9m	145	TYR	CA-CB	5.94	1.63	1.53
1	9B	146	SER	N-CA	5.94	1.53	1.45
1	ak	33	SER	C-N	5.94	1.41	1.34
1	ar	124	ILE	CA-C	5.94	1.57	1.53
1	au	132	ARG	CZ-NH2	-5.94	1.25	1.33
1	bh	132	ARG	C-N	5.94	1.41	1.33
1	17	188	THR	N-CA	5.94	1.52	1.46
1	bo	201	ILE	N-CA	-5.94	1.39	1.46
1	bv	188	THR	C-N	5.94	1.42	1.33
1	bP	117	TRP	CA-C	5.94	1.60	1.52
1	bU	128	GLU	C-N	5.94	1.41	1.33
1	cg	117	TRP	CA-CB	5.94	1.62	1.53
1	d2	193	ASN	CA-CB	5.94	1.62	1.53
1	d9	194	ALA	C-N	5.94	1.42	1.33
1	df	37	ILE	CA-C	5.94	1.58	1.52
1	dp	101	GLY	CA-C	-5.94	1.45	1.51
1	e2	29	GLU	CA-C	5.94	1.60	1.52
1	ed	205	LEU	N-CA	5.94	1.53	1.46
1	ef	12	HIS	ND1-CE1	5.94	1.38	1.32
1	eG	97	ARG	CA-C	5.94	1.60	1.52
1	1v	173	ARG	N-CA	-5.94	1.39	1.46
1	fB	105	ALA	CA-CB	5.94	1.63	1.53
1	i	68	MET	N-CA	5.94	1.53	1.46
1	B	73	ILE	CA-CB	-5.94	1.47	1.54
1	D	86	VAL	CA-C	-5.94	1.46	1.52
1	V	21	ASN	CA-C	5.94	1.60	1.52
1	W	65	ALA	CA-CB	5.94	1.62	1.53
1	gF	175	GLU	N-CA	-5.94	1.38	1.45
1	gG	205	LEU	C-N	5.94	1.42	1.33
1	he	37	ILE	CA-C	5.94	1.59	1.52
1	hk	228	ALA	N-CA	-5.94	1.38	1.46
1	i1	23	TRP	CA-CB	5.94	1.63	1.53
1	i4	40	PHE	CA-CB	5.94	1.62	1.53
1	iv	115	ILE	CA-C	5.94	1.62	1.52
1	iA	212	GLU	N-CA	5.94	1.53	1.46
1	jg	139	ASN	CG-ND2	5.94	1.45	1.33
1	jv	143	ARG	CZ-NH2	-5.94	1.25	1.33
1	20	98	GLU	C-N	5.94	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	26	54	THR	C-N	5.94	1.41	1.33
1	ly	195	ASN	C-N	5.94	1.41	1.34
1	2Y	143	ARG	N-CA	5.94	1.53	1.46
1	34	66	MET	C-N	5.94	1.41	1.33
1	3o	200	THR	CA-C	5.94	1.60	1.52
1	45	220	GLY	CA-C	5.94	1.59	1.51
1	5q	12	HIS	CA-C	-5.94	1.45	1.52
1	5C	70	LYS	CA-CB	5.94	1.62	1.53
1	8T	97	ARG	CA-CB	5.94	1.63	1.53
1	95	141	ILE	C-N	5.94	1.41	1.34
1	9n	14	ALA	CA-C	5.94	1.60	1.52
1	9A	11	VAL	CA-CB	-5.94	1.47	1.54
1	9K	129	ILE	C-O	-5.94	1.17	1.24
1	9S	96	MET	CA-CB	5.94	1.63	1.53
1	9Y	1	PRO	N-CD	5.94	1.56	1.47
1	aY	141	ILE	CA-C	-5.94	1.44	1.52
1	b0	41	SER	N-CA	5.94	1.53	1.46
1	bs	117	TRP	CA-C	-5.94	1.45	1.52
1	bt	14	ALA	N-CA	5.94	1.53	1.46
1	bt	109	SER	CA-CB	5.94	1.63	1.53
1	dw	144	MET	CA-CB	5.94	1.62	1.53
1	dG	12	HIS	CB-CG	5.94	1.58	1.50
1	f2	230	VAL	C-O	5.94	1.29	1.24
1	g2	148	THR	CA-C	-5.94	1.44	1.52
1	u	167	ARG	CA-C	5.94	1.60	1.52
1	L	162	ARG	CD-NE	5.94	1.54	1.46
1	gm	46	GLY	N-CA	5.93	1.53	1.45
1	gv	102	SER	CA-C	5.93	1.60	1.52
1	gC	12	HIS	ND1-CE1	5.93	1.38	1.32
1	gX	169	TYR	CA-CB	5.93	1.63	1.53
1	1L	58	THR	C-N	5.93	1.40	1.33
1	1P	84	HIS	C-N	5.93	1.40	1.33
1	ip	40	PHE	CA-CB	5.93	1.62	1.53
1	iM	83	LEU	N-CA	5.93	1.54	1.46
1	iX	64	ALA	C-N	5.93	1.41	1.33
1	j2	37	ILE	CA-C	-5.93	1.46	1.52
1	ju	152	ASP	CA-C	5.93	1.60	1.52
1	jy	18	ARG	N-CA	5.93	1.53	1.46
1	jK	32	PHE	N-CA	-5.93	1.39	1.46
1	jR	116	GLY	N-CA	5.93	1.53	1.45
1	k3	187	GLU	C-N	5.93	1.41	1.34
1	kA	66	MET	C-N	5.93	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kG	121	ASN	CA-C	5.93	1.60	1.53
1	kG	200	THR	C-N	5.93	1.41	1.33
1	kK	37	ILE	CA-C	5.93	1.58	1.52
1	24	44	SER	CA-CB	5.93	1.61	1.53
1	kQ	211	LEU	N-CA	-5.93	1.39	1.46
1	kZ	163	ASP	C-N	5.93	1.41	1.33
1	l3	224	PRO	N-CA	5.93	1.54	1.47
1	lG	74	ASN	CA-CB	5.93	1.62	1.53
1	lI	153	ILE	CA-CB	-5.93	1.47	1.54
1	2H	197	ASP	N-CA	-5.93	1.39	1.46
1	2W	58	THR	C-N	5.93	1.39	1.33
1	3Y	19	THR	N-CA	-5.93	1.39	1.46
1	4o	69	LEU	CB-CG	5.93	1.65	1.53
1	54	80	TRP	NE1-CE2	5.93	1.44	1.37
1	5p	180	GLU	CA-CB	5.93	1.62	1.53
1	7p	125	PRO	N-CA	5.93	1.51	1.47
1	84	195	ASN	CA-C	5.93	1.60	1.53
1	8g	41	SER	CA-C	5.93	1.60	1.52
1	8K	11	VAL	CA-C	-5.93	1.45	1.52
1	8L	85	PRO	C-O	-5.93	1.17	1.24
1	8R	134	ILE	C-N	5.93	1.40	1.34
1	9c	230	VAL	CA-CB	5.93	1.60	1.54
1	9o	133	TRP	CA-CB	5.93	1.62	1.53
1	9D	72	THR	C-N	5.93	1.41	1.33
1	a8	221	VAL	N-CA	-5.93	1.38	1.46
1	a9	223	GLY	C-N	-5.93	1.26	1.33
1	az	175	GLU	CA-CB	5.93	1.62	1.53
1	aD	126	VAL	C-N	5.93	1.41	1.34
1	aW	181	VAL	N-CA	-5.93	1.39	1.46
1	bB	26	VAL	CA-C	5.93	1.59	1.52
1	c6	18	ARG	N-CA	-5.93	1.39	1.46
1	cf	71	GLU	N-CA	5.93	1.53	1.46
1	cA	38	PRO	CA-C	-5.93	1.43	1.52
1	cK	86	VAL	C-N	5.93	1.41	1.33
1	d1	12	HIS	ND1-CE1	5.93	1.38	1.32
1	dD	96	MET	CA-CB	5.93	1.62	1.53
1	e6	197	ASP	C-N	5.93	1.42	1.33
1	eo	139	ASN	N-CA	-5.93	1.39	1.46
1	fd	169	TYR	C-O	-5.93	1.17	1.24
1	fu	35	GLU	N-CA	-5.93	1.38	1.46
1	1	32	PHE	N-CA	-5.93	1.39	1.46
1	M	223	GLY	CA-C	5.93	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Q	15	ILE	CA-C	-5.93	1.45	1.52
1	gd	180	GLU	C-N	5.93	1.41	1.33
1	gt	41	SER	CA-CB	5.93	1.62	1.53
1	gV	90	PRO	N-CA	5.93	1.54	1.47
1	h2	133	TRP	CA-C	5.93	1.60	1.52
1	h3	205	LEU	CA-CB	5.93	1.62	1.53
1	hl	43	LEU	C-N	5.93	1.41	1.33
1	ho	76	GLU	CA-C	5.93	1.60	1.52
1	hZ	23	TRP	CA-C	5.93	1.60	1.52
1	i1	146	SER	C-O	-5.93	1.16	1.23
1	1N	99	PRO	N-CA	-5.93	1.40	1.47
1	i9	115	ILE	N-CA	-5.93	1.39	1.46
1	ih	183	ASN	C-N	5.93	1.41	1.33
1	iU	225	GLY	C-N	5.93	1.42	1.33
1	je	56	LEU	CA-CB	5.93	1.62	1.53
1	jk	226	HIS	ND1-CE1	5.93	1.38	1.32
1	jx	154	ARG	N-CA	5.93	1.53	1.46
1	jz	169	TYR	CA-C	5.93	1.60	1.52
1	jB	84	HIS	ND1-CE1	5.93	1.38	1.32
1	kb	118	MET	N-CA	-5.93	1.38	1.46
1	kj	226	HIS	CG-CD2	5.93	1.42	1.35
1	km	41	SER	C-N	5.93	1.41	1.33
1	ko	66	MET	CA-CB	5.93	1.62	1.53
1	kx	202	LEU	C-N	5.93	1.41	1.33
1	l6	100	ARG	CA-C	-5.93	1.45	1.53
1	lA	134	ILE	CA-CB	-5.93	1.47	1.54
1	lB	62	HIS	ND1-CE1	5.93	1.38	1.32
1	29	184	TRP	NE1-CE2	5.93	1.44	1.37
1	2N	19	THR	CA-C	-5.93	1.44	1.52
1	2Y	105	ALA	C-N	5.93	1.41	1.33
1	3f	100	ARG	N-CA	5.93	1.53	1.45
1	3u	185	MET	N-CA	-5.93	1.39	1.46
1	3v	114	GLN	N-CA	5.93	1.53	1.46
1	3G	84	HIS	CD2-NE2	5.93	1.44	1.37
1	43	70	LYS	CA-CB	5.93	1.62	1.53
1	4b	123	PRO	N-CD	-5.93	1.39	1.47
1	4J	29	GLU	CA-C	-5.93	1.45	1.52
1	4V	54	THR	N-CA	5.93	1.53	1.46
1	5q	53	ASN	C-O	-5.93	1.17	1.24
1	5A	47	ALA	N-CA	-5.93	1.38	1.45
1	5D	168	PHE	C-N	5.93	1.41	1.33
1	5E	84	HIS	CG-CD2	5.93	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5W	134	ILE	CA-C	5.93	1.60	1.52
1	77	133	TRP	CA-CB	5.93	1.62	1.53
1	7f	161	PHE	N-CA	-5.93	1.38	1.46
1	7r	22	ALA	N-CA	-5.93	1.39	1.46
1	7B	185	MET	N-CA	5.93	1.53	1.46
1	7P	124	ILE	CA-C	5.93	1.59	1.52
1	7T	133	TRP	NE1-CE2	-5.93	1.30	1.37
1	8p	59	VAL	N-CA	-5.93	1.38	1.46
1	8u	11	VAL	CA-CB	-5.93	1.47	1.54
1	8E	57	ASN	CA-CB	5.93	1.62	1.53
1	8N	114	GLN	CA-C	-5.93	1.45	1.52
1	9B	3	VAL	N-CA	-5.93	1.39	1.46
1	9O	11	VAL	CA-C	-5.93	1.45	1.52
1	9U	188	THR	CA-C	5.93	1.59	1.53
1	9V	180	GLU	C-N	5.93	1.41	1.33
1	a6	193	ASN	N-CA	5.93	1.53	1.46
1	ab	15	ILE	CA-C	5.93	1.59	1.52
1	aU	211	LEU	CA-CB	5.93	1.62	1.53
1	bx	123	PRO	CA-C	5.93	1.60	1.52
1	cN	209	ALA	N-CA	-5.93	1.38	1.46
1	1h	127	GLY	C-N	5.93	1.42	1.33
1	d5	106	GLY	CA-C	-5.93	1.42	1.51
1	dh	29	GLU	CA-C	5.93	1.60	1.52
1	dk	217	ALA	CA-C	5.93	1.60	1.52
1	1p	226	HIS	CA-CB	5.93	1.63	1.53
1	ek	212	GLU	C-N	5.93	1.41	1.33
1	em	166	ASP	CA-C	5.93	1.60	1.52
1	eq	61	GLY	C-N	5.93	1.42	1.33
1	1x	128	GLU	C-O	-5.93	1.17	1.24
1	p	74	ASN	CA-CB	5.93	1.62	1.53
1	u	207	PRO	C-O	-5.93	1.16	1.24
1	A	142	VAL	C-N	5.93	1.42	1.33
1	J	97	ARG	CD-NE	5.93	1.54	1.46
1	g8	219	GLN	C-N	5.93	1.41	1.33
1	gb	104	ILE	CA-CB	5.93	1.61	1.54
1	gj	226	HIS	CB-CG	-5.93	1.41	1.50
1	ip	154	ARG	CD-NE	5.93	1.54	1.46
1	iH	137	GLY	N-CA	5.93	1.53	1.45
1	j8	167	ARG	CD-NE	5.93	1.54	1.46
1	ju	102	SER	N-CA	-5.93	1.38	1.46
1	jH	215	MET	CA-CB	-5.93	1.43	1.53
1	k9	47	ALA	N-CA	-5.93	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ke	70	LYS	N-CA	-5.93	1.39	1.46
1	kJ	52	LEU	N-CA	-5.93	1.39	1.46
1	kR	141	ILE	CA-CB	5.93	1.61	1.54
1	kV	96	MET	C-N	-5.93	1.26	1.33
1	2a	142	VAL	C-N	5.93	1.41	1.33
1	2k	34	PRO	CA-CB	5.93	1.62	1.53
1	2N	213	GLU	C-N	5.93	1.42	1.33
1	34	139	ASN	N-CA	5.93	1.53	1.46
1	3o	110	THR	CA-C	5.93	1.60	1.52
1	3v	145	TYR	CA-C	-5.93	1.44	1.52
1	4n	107	THR	C-N	5.93	1.41	1.33
1	4O	172	LEU	C-N	5.93	1.41	1.33
1	4X	117	TRP	CA-CB	5.93	1.62	1.53
1	51	223	GLY	CA-C	5.93	1.60	1.51
1	7G	217	ALA	N-CA	5.93	1.53	1.46
1	8O	65	ALA	C-N	5.93	1.41	1.33
1	9t	80	TRP	CA-CB	5.93	1.62	1.53
1	9w	199	LYS	CA-CB	5.93	1.63	1.53
1	aj	207	PRO	CA-CB	5.93	1.62	1.53
1	aw	19	THR	CA-CB	-5.93	1.44	1.53
1	aM	162	ARG	NE-CZ	5.93	1.39	1.33
1	aQ	96	MET	N-CA	-5.93	1.39	1.46
1	br	87	HIS	N-CA	-5.93	1.38	1.46
1	bs	130	TYR	CA-C	5.93	1.60	1.52
1	bt	3	VAL	N-CA	5.93	1.53	1.46
1	by	216	THR	N-CA	-5.93	1.39	1.46
1	c7	79	GLU	C-N	5.93	1.42	1.33
1	cp	77	ALA	CA-C	5.93	1.60	1.52
1	eH	156	GLY	N-CA	5.93	1.52	1.44
1	eH	228	ALA	C-N	5.93	1.41	1.33
1	fm	65	ALA	C-O	-5.93	1.17	1.24
1	A	36	VAL	C-N	5.93	1.40	1.33
1	g8	62	HIS	CB-CG	5.93	1.58	1.50
1	1E	136	LEU	CA-CB	5.93	1.62	1.53
1	hl	181	VAL	CA-CB	5.93	1.62	1.54
1	jd	4	GLN	N-CA	-5.93	1.38	1.46
1	jB	86	VAL	CA-CB	-5.93	1.46	1.54
1	jQ	184	TRP	CA-CB	5.93	1.62	1.53
1	jV	211	LEU	CA-C	-5.93	1.44	1.52
1	k4	62	HIS	CE1-NE2	5.93	1.38	1.32
1	ki	91	ILE	N-CA	5.93	1.52	1.46
1	l7	52	LEU	C-N	5.93	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ld	172	LEU	C-N	5.93	1.41	1.33
1	lG	141	ILE	CA-C	-5.93	1.45	1.52
1	lN	198	CYS	CA-C	5.93	1.60	1.52
1	2Z	210	THR	N-CA	-5.93	1.38	1.45
1	3a	179	GLN	CA-C	5.93	1.60	1.52
1	3i	49	PRO	C-N	5.93	1.41	1.33
1	4x	115	ILE	C-N	5.93	1.42	1.33
1	4z	26	VAL	CA-CB	5.93	1.61	1.54
1	4Q	84	HIS	CA-CB	5.93	1.63	1.53
1	5x	184	TRP	N-CA	5.93	1.53	1.46
1	6u	90	PRO	CA-C	5.93	1.60	1.52
1	6y	87	HIS	CG-CD2	5.93	1.42	1.35
1	6A	125	PRO	C-N	5.93	1.41	1.33
1	6B	209	ALA	C-N	5.93	1.41	1.33
1	75	62	HIS	CA-C	5.93	1.60	1.53
1	7y	132	ARG	CD-NE	5.93	1.54	1.46
1	7E	214	MET	N-CA	5.93	1.53	1.46
1	7R	12	HIS	CB-CG	5.93	1.58	1.50
1	7S	187	GLU	CA-C	5.93	1.60	1.52
1	8Q	177	ALA	N-CA	-5.93	1.38	1.46
1	8R	160	PRO	CA-C	-5.93	1.44	1.52
1	94	190	LEU	CA-C	-5.93	1.45	1.52
1	9g	168	PHE	C-N	5.93	1.42	1.34
1	Z	166	ASP	CA-C	5.93	1.60	1.52
1	a3	87	HIS	C-O	-5.93	1.16	1.24
1	al	137	GLY	C-O	-5.93	1.16	1.23
1	bb	129	ILE	C-O	-5.93	1.17	1.24
1	bq	3	VAL	N-CA	5.93	1.53	1.46
1	bK	95	GLN	C-N	5.93	1.41	1.33
1	1a	136	LEU	N-CA	-5.93	1.38	1.46
1	bM	79	GLU	CA-CB	5.93	1.62	1.53
1	bN	108	THR	N-CA	5.93	1.52	1.46
1	bT	62	HIS	CE1-NE2	5.93	1.38	1.32
1	c9	164	TYR	CA-CB	5.93	1.62	1.53
1	ct	104	ILE	CA-CB	5.93	1.61	1.54
1	cv	195	ASN	C-N	5.93	1.41	1.34
1	cD	181	VAL	N-CA	5.93	1.53	1.46
1	cO	85	PRO	C-N	5.93	1.41	1.33
1	d5	1	PRO	N-CA	5.93	1.55	1.47
1	dj	126	VAL	CA-CB	-5.93	1.47	1.54
1	dm	190	LEU	CA-CB	5.93	1.62	1.53
1	dw	170	LYS	C-N	5.93	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dx	218	CYS	C-O	-5.93	1.16	1.23
1	dz	101	GLY	CA-C	5.93	1.58	1.52
1	dF	83	LEU	CA-C	5.93	1.60	1.53
1	e7	105	ALA	N-CA	-5.93	1.39	1.46
1	ej	39	MET	CA-CB	5.93	1.63	1.53
1	eJ	137	GLY	CA-C	-5.93	1.45	1.52
1	f1	4	GLN	CA-CB	5.93	1.62	1.53
1	fP	167	ARG	NE-CZ	-5.93	1.26	1.33
1	g2	30	LYS	C-N	5.93	1.42	1.33
1	2	224	PRO	C-N	5.93	1.42	1.33
1	H	9	GLN	N-CA	5.93	1.53	1.46
1	K	8	GLY	N-CA	5.93	1.53	1.45
1	Q	3	VAL	CA-CB	-5.93	1.47	1.54
1	6	46	GLY	CA-C	-5.93	1.43	1.51
1	gg	132	ARG	CD-NE	5.93	1.54	1.46
1	gL	169	TYR	N-CA	5.93	1.53	1.46
1	he	221	VAL	CA-C	5.93	1.59	1.52
1	hw	35	GLU	C-O	-5.93	1.16	1.24
1	i0	25	LYS	C-N	5.93	1.41	1.33
1	j4	111	LEU	N-CA	-5.93	1.39	1.46
1	jd	192	GLN	C-N	5.93	1.42	1.33
1	kF	45	GLU	N-CA	-5.93	1.38	1.46
1	l0	83	LEU	CB-CG	5.93	1.65	1.53
1	lp	87	HIS	ND1-CE1	5.93	1.38	1.32
1	lw	5	ASN	CA-C	5.93	1.60	1.52
1	2D	111	LEU	CA-C	-5.93	1.44	1.52
1	2W	211	LEU	CA-C	-5.93	1.45	1.52
1	3j	144	MET	CA-C	-5.93	1.44	1.52
1	3L	18	ARG	CD-NE	5.93	1.54	1.46
1	4j	164	TYR	CA-CB	5.93	1.62	1.53
1	4o	42	ALA	N-CA	-5.93	1.39	1.46
1	4E	130	TYR	CA-CB	5.93	1.62	1.53
1	4Z	3	VAL	CA-C	5.93	1.59	1.53
1	5j	90	PRO	CA-CB	-5.93	1.45	1.53
1	5G	218	CYS	CA-C	5.93	1.60	1.53
1	5X	143	ARG	CZ-NH1	-5.93	1.24	1.32
1	6l	215	MET	N-CA	-5.93	1.38	1.46
1	6V	97	ARG	CA-C	5.93	1.60	1.52
1	79	48	THR	N-CA	-5.93	1.38	1.45
1	7p	215	MET	C-N	5.93	1.41	1.33
1	7K	35	GLU	CA-CB	5.93	1.64	1.53
1	90	195	ASN	CA-C	5.93	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	96	145	TYR	N-CA	5.93	1.53	1.46
1	ak	125	PRO	CA-CB	5.93	1.59	1.53
1	at	194	ALA	N-CA	-5.93	1.38	1.45
1	aL	71	GLU	CA-CB	5.93	1.63	1.53
1	aY	88	ALA	N-CA	-5.93	1.38	1.46
1	bs	167	ARG	CA-CB	5.93	1.62	1.53
1	bS	216	THR	C-N	5.93	1.41	1.33
1	cn	209	ALA	CA-CB	5.93	1.62	1.53
1	dy	12	HIS	N-CA	5.93	1.53	1.46
1	fq	49	PRO	CA-CB	5.93	1.62	1.53
1	j	117	TRP	NE1-CE2	-5.93	1.30	1.37
1	z	76	GLU	CA-CB	5.93	1.62	1.53
1	6	28	GLU	CA-C	5.93	1.60	1.52
1	gk	129	ILE	CA-CB	5.93	1.61	1.54
1	gB	227	LYS	C-N	5.93	1.41	1.33
1	gN	209	ALA	N-CA	-5.93	1.37	1.45
1	1H	216	THR	C-N	-5.93	1.25	1.33
1	hl	216	THR	CA-C	-5.93	1.44	1.52
1	iP	5	ASN	N-CA	5.93	1.53	1.45
1	je	42	ALA	C-N	5.93	1.42	1.33
1	jt	7	GLN	CA-C	5.93	1.60	1.52
1	jF	188	THR	CA-C	-5.93	1.47	1.52
1	kb	132	ARG	NE-CZ	-5.93	1.26	1.33
1	kw	38	PRO	C-N	5.93	1.42	1.33
1	24	218	CYS	C-N	5.93	1.42	1.33
1	l9	125	PRO	CA-C	-5.93	1.47	1.53
1	lw	162	ARG	CD-NE	5.93	1.54	1.46
1	lE	86	VAL	C-N	5.93	1.42	1.33
1	lG	158	LYS	N-CA	5.93	1.53	1.46
1	2A	174	ALA	CA-C	5.93	1.60	1.52
1	3d	159	GLU	C-O	5.93	1.32	1.24
1	3g	187	GLU	CA-C	5.93	1.60	1.52
1	3h	159	GLU	N-CA	-5.93	1.38	1.45
1	3n	5	ASN	CA-C	5.93	1.60	1.52
1	3J	86	VAL	C-N	5.93	1.41	1.33
1	3Q	81	ASP	C-N	5.93	1.41	1.33
1	4C	5	ASN	CA-C	5.93	1.60	1.52
1	4I	189	LEU	C-O	-5.93	1.17	1.24
1	5p	124	ILE	CA-CB	-5.93	1.49	1.54
1	5D	227	LYS	CA-C	-5.93	1.45	1.52
1	5N	62	HIS	CE1-NE2	5.93	1.38	1.32
1	5R	18	ARG	CA-CB	5.93	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	66	212	GLU	N-CA	-5.93	1.39	1.46
1	6n	72	THR	C-N	5.93	1.41	1.33
1	6C	7	GLN	CA-CB	5.93	1.62	1.53
1	6G	226	HIS	CE1-NE2	-5.93	1.26	1.32
1	6R	206	GLY	C-N	-5.93	1.28	1.33
1	7J	24	VAL	C-N	5.93	1.42	1.34
1	7M	71	GLU	CA-CB	5.93	1.62	1.53
1	7Q	215	MET	CA-C	5.93	1.60	1.52
1	83	63	GLN	N-CA	-5.93	1.39	1.46
1	8h	138	LEU	CA-C	-5.93	1.45	1.52
1	8l	205	LEU	CA-C	5.93	1.60	1.52
1	8W	173	ARG	CA-C	-5.93	1.44	1.52
1	91	12	HIS	ND1-CE1	5.93	1.38	1.32
1	9l	131	LYS	CA-C	5.93	1.60	1.52
1	9T	132	ARG	NE-CZ	-5.93	1.26	1.33
1	13	38	PRO	C-N	-5.93	1.26	1.33
1	aH	82	ARG	CZ-NH2	-5.93	1.25	1.33
1	bd	78	ALA	CA-C	-5.93	1.44	1.52
1	cE	15	ILE	CA-CB	-5.93	1.46	1.54
1	el	172	LEU	CA-CB	5.93	1.62	1.53
1	ez	137	GLY	N-CA	5.93	1.53	1.45
1	eE	97	ARG	CA-C	5.93	1.61	1.53
1	ft	181	VAL	CA-CB	5.93	1.61	1.54
1	fu	104	ILE	CA-C	5.93	1.60	1.52
1	fu	221	VAL	CA-C	5.93	1.59	1.52
1	1y	181	VAL	CA-C	-5.93	1.45	1.52
1	1A	99	PRO	CA-C	5.93	1.60	1.52
1	1B	142	VAL	CA-C	-5.93	1.44	1.52
1	l	55	MET	C-N	5.93	1.42	1.34
1	r	54	THR	CA-C	-5.93	1.45	1.52
1	r	87	HIS	C-N	5.93	1.41	1.33
1	R	195	ASN	CA-C	-5.93	1.44	1.53
1	V	12	HIS	CG-ND1	5.93	1.44	1.38
1	ga	181	VAL	CA-CB	-5.92	1.46	1.54
1	gO	212	GLU	CA-CB	5.92	1.62	1.53
1	h2	142	VAL	CA-CB	-5.92	1.47	1.54
1	hD	171	THR	CA-CB	5.92	1.62	1.53
1	1L	41	SER	CA-C	-5.92	1.45	1.52
1	hP	84	HIS	CA-C	5.92	1.58	1.52
1	iE	1	PRO	N-CD	5.92	1.56	1.47
1	iG	163	ASP	CA-CB	5.92	1.63	1.53
1	iZ	109	SER	CA-CB	5.92	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ji	102	SER	CA-CB	5.92	1.62	1.53
1	jo	15	ILE	CA-CB	5.92	1.60	1.54
1	1Y	50	GLN	C-N	5.92	1.41	1.33
1	kz	184	TRP	CZ2-CH2	5.92	1.48	1.37
1	kE	4	GLN	CA-CB	5.92	1.63	1.53
1	l0	110	THR	C-O	5.92	1.31	1.23
1	l2	26	VAL	CA-CB	5.92	1.61	1.54
1	l5	118	MET	CA-CB	5.92	1.62	1.53
1	l6	22	ALA	N-CA	-5.92	1.39	1.46
1	lr	93	PRO	CA-CB	5.92	1.62	1.53
1	2b	37	ILE	C-O	-5.92	1.19	1.24
1	2U	10	MET	C-N	5.92	1.42	1.33
1	2U	225	GLY	CA-C	5.92	1.58	1.52
1	2Y	130	TYR	N-CA	-5.92	1.39	1.46
1	3i	10	MET	CA-C	5.92	1.60	1.53
1	3K	202	LEU	CA-CB	5.92	1.63	1.53
1	3W	1	PRO	N-CA	5.92	1.55	1.47
1	4B	144	MET	N-CA	-5.92	1.39	1.46
1	4K	178	SER	CA-CB	5.92	1.62	1.53
1	5w	62	HIS	CA-C	-5.92	1.45	1.53
1	5z	41	SER	C-O	-5.92	1.17	1.24
1	5K	207	PRO	C-N	5.92	1.40	1.33
1	5R	196	PRO	CA-C	5.92	1.60	1.52
1	6e	80	TRP	CA-CB	5.92	1.62	1.53
1	6m	120	HIS	CG-ND1	-5.92	1.31	1.38
1	6p	111	LEU	CA-CB	5.92	1.63	1.53
1	6E	84	HIS	ND1-CE1	5.92	1.38	1.32
1	8d	109	SER	C-N	5.92	1.41	1.33
1	8f	218	CYS	N-CA	5.92	1.53	1.46
1	8j	11	VAL	CA-C	-5.92	1.45	1.52
1	9f	226	HIS	CG-ND1	-5.92	1.31	1.38
1	9k	72	THR	CA-C	5.92	1.60	1.52
1	9t	188	THR	CA-C	-5.92	1.44	1.52
1	9M	66	MET	C-N	5.92	1.42	1.33
1	9S	93	PRO	CA-C	-5.92	1.47	1.52
1	ao	5	ASN	CA-C	5.92	1.61	1.53
1	av	106	GLY	CA-C	-5.92	1.43	1.51
1	az	23	TRP	CA-CB	5.92	1.63	1.53
1	aL	118	MET	CA-C	5.92	1.60	1.52
1	b1	82	ARG	CD-NE	5.92	1.54	1.46
1	bf	214	MET	C-O	-5.92	1.17	1.24
1	br	198	CYS	N-CA	-5.92	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bt	73	ILE	N-CA	5.92	1.53	1.46
1	bP	201	ILE	C-N	5.92	1.41	1.33
1	bW	165	VAL	CA-C	5.92	1.60	1.52
1	bZ	130	TYR	C-N	5.92	1.41	1.33
1	1c	156	GLY	CA-C	-5.92	1.43	1.51
1	cB	62	HIS	CG-CD2	-5.92	1.29	1.35
1	cK	129	ILE	CA-CB	-5.92	1.46	1.54
1	cL	120	HIS	N-CA	5.92	1.53	1.46
1	cM	34	PRO	CA-CB	5.92	1.62	1.53
1	cP	67	GLN	N-CA	-5.92	1.39	1.46
1	cU	74	ASN	N-CA	5.92	1.53	1.46
1	cV	83	LEU	CA-CB	5.92	1.63	1.53
1	cX	170	LYS	CA-CB	5.92	1.62	1.53
1	d1	186	THR	CA-C	-5.92	1.45	1.52
1	dM	39	MET	N-CA	-5.92	1.39	1.46
1	dV	108	THR	CA-CB	5.92	1.63	1.53
1	dX	154	ARG	C-N	5.92	1.42	1.33
1	1p	42	ALA	C-N	5.92	1.42	1.33
1	ed	196	PRO	C-N	5.92	1.41	1.33
1	eZ	36	VAL	CA-C	-5.92	1.45	1.52
1	fU	213	GLU	C-N	5.92	1.41	1.33
1	e	30	LYS	CA-CB	5.92	1.64	1.53
1	f	221	VAL	N-CA	5.92	1.53	1.46
1	E	162	ARG	CA-C	-5.92	1.45	1.52
1	M	81	ASP	CA-CB	5.92	1.63	1.53
1	7	83	LEU	C-N	5.92	1.40	1.33
1	8	219	GLN	CA-CB	5.92	1.60	1.53
1	gc	121	ASN	CA-C	-5.92	1.46	1.52
1	hE	31	ALA	CA-C	5.92	1.60	1.52
1	it	88	ALA	CA-CB	5.92	1.63	1.53
1	iy	97	ARG	CD-NE	5.92	1.54	1.46
1	iY	164	TYR	N-CA	-5.92	1.39	1.46
1	jv	168	PHE	CA-C	5.92	1.60	1.52
1	jE	151	LEU	C-N	5.92	1.41	1.33
1	jS	25	LYS	CA-CB	5.92	1.63	1.53
1	k9	219	GLN	C-O	-5.92	1.16	1.24
1	kr	159	GLU	CA-C	-5.92	1.45	1.52
1	26	52	LEU	CA-CB	5.92	1.62	1.53
1	lr	190	LEU	N-CA	-5.92	1.39	1.46
1	lI	35	GLU	C-O	5.92	1.31	1.24
1	lR	206	GLY	N-CA	5.92	1.52	1.44
1	2H	189	LEU	N-CA	5.92	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3h	162	ARG	CD-NE	5.92	1.54	1.46
1	3z	199	LYS	CA-C	-5.92	1.44	1.52
1	3R	123	PRO	CA-C	-5.92	1.44	1.52
1	4I	184	TRP	N-CA	-5.92	1.39	1.46
1	6z	143	ARG	CZ-NH1	-5.92	1.24	1.32
1	8e	167	ARG	CA-CB	5.92	1.62	1.53
1	a5	80	TRP	CA-CB	5.92	1.62	1.53
1	av	91	ILE	CA-CB	5.92	1.62	1.54
1	aT	151	LEU	CA-C	5.92	1.60	1.52
1	ds	63	GLN	CA-C	5.92	1.60	1.52
1	eO	185	MET	C-N	5.92	1.41	1.33
1	ff	208	ALA	CA-CB	5.92	1.61	1.53
1	fn	128	GLU	CA-C	-5.92	1.45	1.52
1	fu	109	SER	CA-C	5.92	1.59	1.52
1	g7	78	ALA	C-N	-5.92	1.26	1.33
1	9	33	SER	CA-CB	5.92	1.62	1.53
1	gx	203	LYS	CA-C	5.92	1.60	1.52
1	1E	37	ILE	N-CA	-5.92	1.39	1.46
1	gP	181	VAL	C-N	5.92	1.41	1.33
1	gW	132	ARG	CD-NE	5.92	1.54	1.46
1	1I	143	ARG	NE-CZ	5.92	1.39	1.33
1	ht	92	GLU	CA-CB	5.92	1.62	1.53
1	hI	25	LYS	CA-C	-5.92	1.44	1.52
1	if	229	ARG	C-N	5.92	1.41	1.33
1	iK	80	TRP	NE1-CE2	-5.92	1.30	1.37
1	iW	100	ARG	C-N	5.92	1.41	1.33
1	jz	107	THR	CA-CB	-5.92	1.43	1.53
1	ka	129	ILE	C-N	5.92	1.41	1.33
1	kI	190	LEU	N-CA	-5.92	1.39	1.46
1	kV	60	GLY	N-CA	5.92	1.53	1.45
1	kW	12	HIS	CA-CB	5.92	1.63	1.53
1	kX	144	MET	C-N	-5.92	1.26	1.33
1	kZ	23	TRP	NE1-CE2	-5.92	1.30	1.37
1	l4	136	LEU	C-N	5.92	1.40	1.33
1	lw	190	LEU	CA-C	5.92	1.60	1.52
1	lF	154	ARG	CD-NE	5.92	1.54	1.46
1	2q	199	LYS	C-N	5.92	1.41	1.33
1	2S	70	LYS	CA-C	5.92	1.60	1.52
1	2Y	190	LEU	N-CA	-5.92	1.39	1.46
1	3c	78	ALA	CA-C	-5.92	1.45	1.52
1	3J	120	HIS	ND1-CE1	5.92	1.38	1.32
1	40	117	TRP	CD2-CE3	5.92	1.49	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	40	213	GLU	CA-CB	5.92	1.62	1.53
1	4h	143	ARG	CA-C	-5.92	1.45	1.52
1	4L	84	HIS	N-CA	-5.92	1.40	1.46
1	5g	155	GLN	CA-C	-5.92	1.45	1.52
1	5I	87	HIS	CG-CD2	5.92	1.42	1.35
1	5R	112	GLN	CA-CB	5.92	1.63	1.53
1	7C	169	TYR	CA-C	5.92	1.60	1.52
1	7S	198	CYS	CA-C	5.92	1.60	1.52
1	8a	193	ASN	CA-CB	5.92	1.62	1.53
1	8n	18	ARG	C-N	5.92	1.41	1.33
1	8B	44	SER	CA-C	5.92	1.60	1.52
1	8P	189	LEU	N-CA	-5.92	1.39	1.46
1	9l	133	TRP	NE1-CE2	5.92	1.44	1.37
1	10	112	GLN	N-CA	-5.92	1.39	1.46
1	ak	147	PRO	N-CA	5.92	1.54	1.47
1	aq	88	ALA	CA-C	-5.92	1.44	1.52
1	aI	147	PRO	CA-C	5.92	1.60	1.52
1	aI	229	ARG	CA-CB	5.92	1.62	1.53
1	aM	220	GLY	C-N	5.92	1.41	1.33
1	b1	173	ARG	CA-CB	5.92	1.63	1.53
1	ba	229	ARG	CA-C	-5.92	1.45	1.52
1	bA	51	ASP	C-N	5.92	1.41	1.33
1	bY	156	GLY	C-N	5.92	1.42	1.34
1	c7	120	HIS	CG-ND1	5.92	1.44	1.38
1	cs	138	LEU	C-N	5.92	1.41	1.33
1	cQ	60	GLY	N-CA	5.92	1.53	1.45
1	cV	81	ASP	N-CA	-5.92	1.38	1.46
1	dU	209	ALA	CA-C	-5.92	1.45	1.52
1	e9	92	GLU	C-N	5.92	1.38	1.33
1	el	41	SER	CA-C	-5.92	1.45	1.52
1	ey	132	ARG	CD-NE	5.92	1.54	1.46
1	1s	159	GLU	N-CA	5.92	1.53	1.46
1	eW	193	ASN	CA-CB	5.92	1.63	1.53
1	f4	84	HIS	CA-C	5.92	1.58	1.52
1	fe	184	TRP	C-N	5.92	1.42	1.33
1	fh	184	TRP	CA-C	-5.92	1.45	1.52
1	fq	79	GLU	CA-CB	5.92	1.62	1.53
1	fw	13	GLN	N-CA	-5.92	1.39	1.46
1	1z	17	PRO	CA-C	5.92	1.62	1.52
1	f	129	ILE	CA-C	5.92	1.60	1.52
1	h	130	TYR	CA-CB	5.92	1.62	1.53
1	9	174	ALA	CA-CB	5.92	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gj	165	VAL	N-CA	-5.92	1.39	1.46
1	gF	17	PRO	CA-C	-5.92	1.44	1.52
1	ig	140	LYS	N-CA	-5.92	1.39	1.46
1	il	153	ILE	C-N	5.92	1.42	1.33
1	km	126	VAL	CA-CB	-5.92	1.47	1.54
1	kJ	26	VAL	CA-C	5.92	1.60	1.52
1	25	129	ILE	N-CA	-5.92	1.39	1.46
1	2s	97	ARG	NE-CZ	-5.92	1.26	1.33
1	32	124	ILE	N-CA	-5.92	1.41	1.46
1	33	20	LEU	CA-CB	5.92	1.62	1.53
1	3o	87	HIS	CB-CG	5.92	1.58	1.50
1	3P	121	ASN	CA-CB	-5.92	1.42	1.54
1	44	120	HIS	CA-C	5.92	1.61	1.53
1	4i	66	MET	CA-CB	5.92	1.62	1.53
1	4x	62	HIS	CA-C	-5.92	1.45	1.53
1	4W	123	PRO	CA-CB	5.92	1.62	1.53
1	5q	192	GLN	N-CA	-5.92	1.38	1.46
1	7e	18	ARG	N-CA	-5.92	1.38	1.46
1	7x	137	GLY	N-CA	-5.92	1.38	1.45
1	7z	229	ARG	CZ-NH2	-5.92	1.25	1.33
1	87	221	VAL	CA-C	5.92	1.60	1.52
1	8M	121	ASN	N-CA	-5.92	1.40	1.46
1	9J	150	ILE	CA-C	5.92	1.60	1.52
1	Y	45	GLU	CA-C	-5.92	1.44	1.52
1	aa	140	LYS	CA-CB	5.92	1.62	1.53
1	az	78	ALA	N-CA	-5.92	1.39	1.46
1	bV	228	ALA	CA-C	-5.92	1.45	1.52
1	cJ	206	GLY	N-CA	5.92	1.52	1.44
1	d4	133	TRP	CA-CB	5.92	1.62	1.53
1	el	65	ALA	CA-C	5.92	1.60	1.52
1	fn	112	GLN	CA-C	5.92	1.60	1.52
1	fp	37	ILE	CA-C	-5.92	1.46	1.52
1	c	115	ILE	N-CA	-5.92	1.39	1.46
1	gf	47	ALA	C-N	5.92	1.42	1.33
1	gi	161	PHE	CA-C	-5.92	1.44	1.52
1	hg	26	VAL	N-CA	5.92	1.53	1.46
1	hr	156	GLY	N-CA	5.92	1.52	1.44
1	hs	205	LEU	CA-C	5.92	1.60	1.52
1	hw	129	ILE	CA-C	-5.92	1.45	1.52
1	hR	132	ARG	CD-NE	5.92	1.54	1.46
1	hR	229	ARG	CA-CB	5.92	1.63	1.53
1	ir	196	PRO	N-CD	-5.92	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Q	126	VAL	CA-CB	-5.92	1.47	1.54
1	iy	183	ASN	C-N	5.92	1.41	1.33
1	1R	220	GLY	N-CA	5.92	1.53	1.45
1	iU	163	ASP	CA-CB	5.92	1.63	1.53
1	iY	177	ALA	CA-C	5.92	1.60	1.52
1	1V	125	PRO	CA-C	5.92	1.58	1.53
1	jP	39	MET	C-N	-5.92	1.26	1.33
1	kP	135	ILE	CA-CB	-5.92	1.47	1.54
1	25	125	PRO	CA-C	5.92	1.60	1.52
1	l2	144	MET	N-CA	-5.92	1.39	1.46
1	lb	84	HIS	CG-ND1	5.92	1.44	1.38
1	lF	59	VAL	N-CA	5.92	1.53	1.46
1	lK	104	ILE	N-CA	5.92	1.54	1.46
1	2l	86	VAL	CA-C	-5.92	1.45	1.52
1	2s	133	TRP	C-N	5.92	1.41	1.33
1	2D	51	ASP	N-CA	5.92	1.53	1.46
1	2W	119	THR	CA-CB	5.92	1.61	1.53
1	3r	11	VAL	CA-C	-5.92	1.45	1.52
1	3u	168	PHE	CA-C	-5.92	1.45	1.52
1	3Q	46	GLY	CA-C	5.92	1.59	1.51
1	4k	68	MET	N-CA	5.92	1.53	1.46
1	4q	105	ALA	N-CA	-5.92	1.38	1.46
1	4S	105	ALA	C-N	5.92	1.39	1.33
1	5a	71	GLU	C-N	5.92	1.41	1.33
1	5d	134	ILE	CA-CB	5.92	1.61	1.54
1	5m	153	ILE	CA-CB	-5.92	1.48	1.54
1	5E	72	THR	N-CA	-5.92	1.39	1.46
1	72	149	SER	CA-C	-5.92	1.45	1.52
1	7l	135	ILE	CA-C	-5.92	1.45	1.52
1	7t	87	HIS	CE1-NE2	5.92	1.38	1.32
1	7t	154	ARG	N-CA	5.92	1.53	1.46
1	7A	103	ASP	CA-CB	5.92	1.62	1.53
1	7T	137	GLY	CA-C	-5.92	1.45	1.52
1	7Z	88	ALA	CA-C	5.92	1.60	1.52
1	9v	229	ARG	CD-NE	5.92	1.54	1.46
1	Y	84	HIS	N-CA	-5.92	1.40	1.46
1	bb	87	HIS	CA-C	5.92	1.60	1.52
1	bv	197	ASP	CA-CB	5.92	1.63	1.53
1	bJ	43	LEU	C-N	-5.92	1.26	1.33
1	bV	146	SER	CA-C	5.92	1.60	1.52
1	cj	48	THR	CA-C	5.92	1.60	1.52
1	cx	172	LEU	CA-CB	5.92	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d9	118	MET	N-CA	5.92	1.53	1.46
1	1l	11	VAL	CA-C	-5.92	1.45	1.52
1	dN	77	ALA	CA-C	-5.92	1.45	1.52
1	dU	193	ASN	CA-CB	5.92	1.63	1.53
1	dY	52	LEU	C-N	5.92	1.41	1.33
1	ea	29	GLU	CA-CB	5.92	1.62	1.53
1	eD	52	LEU	CA-CB	5.92	1.62	1.53
1	eL	200	THR	CB-OG1	5.92	1.53	1.43
1	1t	114	GLN	C-N	5.92	1.41	1.33
1	fn	109	SER	CA-C	-5.92	1.45	1.52
1	fT	70	LYS	N-CA	-5.92	1.39	1.46
1	c	104	ILE	CA-C	5.92	1.60	1.52
1	s	84	HIS	CA-C	5.92	1.60	1.52
1	H	122	PRO	C-N	5.92	1.40	1.33
1	ga	97	ARG	CD-NE	5.92	1.54	1.46
1	gc	29	GLU	CA-CB	5.92	1.62	1.53
1	gi	229	ARG	CA-C	-5.92	1.45	1.52
1	gv	62	HIS	ND1-CE1	5.92	1.38	1.32
1	gv	157	PRO	N-CD	-5.92	1.39	1.47
1	gF	23	TRP	CA-CB	5.92	1.63	1.53
1	h5	71	GLU	C-N	5.92	1.41	1.33
1	hM	209	ALA	CA-C	5.92	1.60	1.52
1	hS	185	MET	N-CA	5.92	1.53	1.46
1	ih	93	PRO	CA-CB	5.92	1.62	1.53
1	il	181	VAL	C-O	-5.92	1.17	1.24
1	in	39	MET	CA-CB	5.92	1.62	1.53
1	iB	7	GLN	CA-CB	5.92	1.62	1.53
1	j3	62	HIS	CE1-NE2	5.92	1.38	1.32
1	js	26	VAL	CA-C	5.92	1.60	1.52
1	jM	125	PRO	C-O	-5.92	1.16	1.24
1	jR	54	THR	CA-C	5.92	1.60	1.52
1	kf	207	PRO	CA-CB	-5.92	1.46	1.53
1	kN	42	ALA	N-CA	-5.92	1.39	1.46
1	kO	36	VAL	N-CA	-5.92	1.39	1.46
1	lm	148	THR	CA-C	5.92	1.60	1.52
1	lp	82	ARG	N-CA	-5.92	1.39	1.46
1	lN	95	GLN	C-O	5.92	1.31	1.23
1	2E	76	GLU	CA-CB	5.92	1.63	1.53
1	3u	23	TRP	C-N	5.92	1.41	1.33
1	3Q	17	PRO	C-N	5.92	1.41	1.33
1	3Q	138	LEU	CA-CB	5.92	1.62	1.53
1	56	43	LEU	CA-C	5.92	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5s	184	TRP	N-CA	5.92	1.53	1.46
1	5z	60	GLY	N-CA	5.92	1.53	1.45
1	6F	104	ILE	CA-C	5.92	1.60	1.52
1	6I	166	ASP	CA-CB	5.92	1.62	1.53
1	7g	123	PRO	N-CA	-5.92	1.40	1.47
1	7k	190	LEU	CA-C	-5.92	1.45	1.52
1	7F	183	ASN	CA-CB	5.92	1.62	1.53
1	7K	224	PRO	CA-C	-5.92	1.45	1.52
1	83	126	VAL	C-N	5.92	1.42	1.33
1	8P	1	PRO	N-CD	5.92	1.56	1.47
1	8P	16	SER	C-N	5.92	1.41	1.34
1	8Z	202	LEU	N-CA	5.92	1.53	1.46
1	97	117	TRP	CA-CB	5.92	1.62	1.53
1	9w	64	ALA	CA-CB	5.92	1.62	1.53
1	9w	192	GLN	CA-C	-5.92	1.44	1.52
1	9A	112	GLN	N-CA	-5.92	1.39	1.46
1	ae	37	ILE	CA-C	5.92	1.58	1.52
1	b5	69	LEU	CA-CB	5.92	1.62	1.53
1	bd	37	ILE	C-N	5.92	1.41	1.34
1	br	80	TRP	NE1-CE2	-5.92	1.30	1.37
1	bt	136	LEU	CA-C	-5.92	1.45	1.52
1	cs	58	THR	N-CA	5.92	1.53	1.46
1	cA	10	MET	CA-CB	5.92	1.62	1.53
1	cP	69	LEU	CA-C	5.92	1.60	1.52
1	cP	154	ARG	CZ-NH2	-5.92	1.25	1.33
1	cZ	137	GLY	C-N	5.92	1.42	1.33
1	1j	133	TRP	CA-CB	5.92	1.62	1.53
1	dE	110	THR	N-CA	-5.92	1.39	1.45
1	eh	160	PRO	C-N	5.92	1.41	1.33
1	eG	52	LEU	C-N	5.92	1.41	1.33
1	f3	85	PRO	C-N	5.92	1.41	1.33
1	1A	41	SER	N-CA	5.92	1.53	1.46
1	4	209	ALA	CA-CB	5.92	1.62	1.53
1	ge	130	TYR	C-N	5.92	1.41	1.34
1	gO	33	SER	CA-C	5.92	1.58	1.52
1	h2	214	MET	C-N	5.92	1.41	1.33
1	hK	73	ILE	CA-CB	5.92	1.60	1.54
1	j1	109	SER	CA-CB	5.92	1.62	1.53
1	j4	114	GLN	C-N	5.92	1.41	1.33
1	kf	55	MET	C-N	5.92	1.42	1.34
1	kj	199	LYS	CA-CB	5.92	1.62	1.53
1	lo	160	PRO	CA-CB	5.92	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2p	112	GLN	C-N	5.92	1.42	1.33
1	2W	123	PRO	N-CA	-5.92	1.40	1.46
1	3D	61	GLY	CA-C	-5.92	1.43	1.52
1	5K	19	THR	N-CA	5.92	1.53	1.46
1	6j	148	THR	N-CA	5.92	1.53	1.46
1	6M	145	TYR	CA-C	5.92	1.60	1.52
1	7B	12	HIS	ND1-CE1	5.92	1.38	1.32
1	80	123	PRO	CA-C	-5.92	1.44	1.52
1	8t	43	LEU	CA-C	5.92	1.60	1.52
1	93	55	MET	CA-C	5.92	1.60	1.52
1	bv	37	ILE	N-CA	-5.92	1.39	1.46
1	cg	69	LEU	C-N	5.92	1.41	1.33
1	de	66	MET	CA-CB	5.92	1.62	1.53
1	de	225	GLY	N-CA	-5.92	1.39	1.44
1	dx	50	GLN	C-O	-5.92	1.17	1.24
1	go	20	LEU	C-N	5.91	1.41	1.33
1	gu	204	ALA	C-N	5.91	1.42	1.33
1	gJ	181	VAL	CA-C	5.91	1.60	1.52
1	gR	198	CYS	N-CA	-5.91	1.38	1.46
1	gS	151	LEU	CA-CB	5.91	1.63	1.53
1	gT	60	GLY	N-CA	5.91	1.54	1.45
1	h8	61	GLY	N-CA	5.91	1.53	1.45
1	hC	121	ASN	C-O	-5.91	1.20	1.25
1	hE	141	ILE	C-N	5.91	1.41	1.33
1	hI	223	GLY	N-CA	5.91	1.52	1.44
1	hN	25	LYS	CA-C	5.91	1.60	1.52
1	hN	200	THR	CA-C	-5.91	1.45	1.52
1	hY	121	ASN	CA-C	5.91	1.59	1.52
1	ix	93	PRO	CA-CB	5.91	1.62	1.53
1	iH	98	GLU	C-N	5.91	1.40	1.33
1	j2	72	THR	CA-C	5.91	1.60	1.52
1	jl	130	TYR	CA-CB	5.91	1.62	1.53
1	k2	145	TYR	CA-CB	5.91	1.63	1.53
1	kf	228	ALA	CA-CB	5.91	1.63	1.53
1	km	11	VAL	CA-C	-5.91	1.45	1.52
1	23	2	ILE	N-CA	-5.91	1.39	1.46
1	kP	5	ASN	C-N	5.91	1.42	1.33
1	l6	26	VAL	CA-CB	5.91	1.60	1.54
1	li	180	GLU	C-N	5.91	1.41	1.33
1	lD	123	PRO	C-N	5.91	1.38	1.33
1	lE	132	ARG	N-CA	-5.91	1.38	1.46
1	2a	219	GLN	CA-C	-5.91	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lQ	1	PRO	N-CD	5.91	1.56	1.47
1	lR	139	ASN	CA-C	5.91	1.60	1.52
1	2l	80	TRP	N-CA	5.91	1.53	1.46
1	2G	15	ILE	N-CA	-5.91	1.38	1.46
1	2O	185	MET	CA-C	5.91	1.60	1.52
1	3a	92	GLU	C-N	-5.91	1.26	1.33
1	3a	117	TRP	NE1-CE2	-5.91	1.30	1.37
1	3c	80	TRP	C-O	-5.91	1.17	1.24
1	3n	146	SER	CA-C	5.91	1.59	1.52
1	3s	76	GLU	C-O	-5.91	1.17	1.24
1	3s	140	LYS	CA-C	-5.91	1.44	1.52
1	44	63	GLN	CA-CB	5.91	1.62	1.53
1	4i	158	LYS	CA-C	5.91	1.60	1.52
1	4u	213	GLU	C-O	-5.91	1.17	1.24
1	4Y	215	MET	CA-CB	5.91	1.63	1.53
1	50	133	TRP	CA-CB	5.91	1.62	1.53
1	5N	192	GLN	CA-CB	5.91	1.62	1.53
1	67	190	LEU	C-N	-5.91	1.28	1.34
1	6c	132	ARG	CD-NE	5.91	1.54	1.46
1	6m	47	ALA	CA-C	-5.91	1.45	1.52
1	6s	50	GLN	C-N	5.91	1.42	1.33
1	74	226	HIS	CA-CB	5.91	1.61	1.53
1	7q	177	ALA	N-CA	5.91	1.53	1.46
1	7S	82	ARG	CA-C	-5.91	1.44	1.52
1	7Y	37	ILE	CB-CG1	5.91	1.65	1.53
1	83	142	VAL	CA-C	5.91	1.60	1.52
1	8C	84	HIS	ND1-CE1	5.91	1.38	1.32
1	8V	74	ASN	N-CA	-5.91	1.39	1.46
1	9m	55	MET	N-CA	5.91	1.53	1.46
1	9p	41	SER	C-N	5.91	1.41	1.34
1	9r	130	TYR	C-N	5.91	1.41	1.33
1	9U	143	ARG	CD-NE	5.91	1.54	1.46
1	a8	54	THR	N-CA	5.91	1.53	1.46
1	aa	188	THR	CA-C	-5.91	1.48	1.52
1	aj	70	LYS	CA-CB	5.91	1.62	1.53
1	13	120	HIS	CE1-NE2	5.91	1.38	1.32
1	aG	100	ARG	CA-CB	5.91	1.61	1.53
1	aT	186	THR	CA-C	-5.91	1.45	1.52
1	aX	175	GLU	CA-C	5.91	1.60	1.52
1	aX	185	MET	CA-C	-5.91	1.44	1.52
1	bx	219	GLN	C-N	5.91	1.41	1.33
1	bM	15	ILE	CA-C	5.91	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cq	173	ARG	CD-NE	5.91	1.54	1.46
1	dh	20	LEU	C-O	5.91	1.31	1.24
1	dm	134	ILE	CA-CB	-5.91	1.47	1.54
1	dw	226	HIS	ND1-CE1	5.91	1.38	1.32
1	1l	162	ARG	C-N	5.91	1.41	1.33
1	dA	105	ALA	N-CA	-5.91	1.38	1.46
1	dH	126	VAL	N-CA	-5.91	1.39	1.46
1	e7	148	THR	CA-C	-5.91	1.44	1.52
1	ew	206	GLY	N-CA	5.91	1.52	1.44
1	eF	141	ILE	N-CA	-5.91	1.40	1.46
1	f3	162	ARG	N-CA	5.91	1.53	1.46
1	1v	138	LEU	CA-C	-5.91	1.45	1.52
1	1w	69	LEU	CA-C	-5.91	1.45	1.52
1	fs	168	PHE	CA-C	-5.91	1.45	1.52
1	fz	167	ARG	CD-NE	5.91	1.54	1.46
1	fD	119	THR	N-CA	5.91	1.53	1.46
1	fD	209	ALA	N-CA	5.91	1.53	1.46
1	f	72	THR	CA-CB	5.91	1.62	1.53
1	n	212	GLU	C-N	5.91	1.41	1.33
1	gC	183	ASN	C-N	5.91	1.41	1.33
1	h4	214	MET	C-N	5.91	1.42	1.33
1	hI	4	GLN	CA-C	-5.91	1.45	1.53
1	hY	118	MET	N-CA	5.91	1.53	1.46
1	ij	82	ARG	CA-CB	5.91	1.63	1.53
1	jO	37	ILE	C-O	5.91	1.31	1.24
1	ky	62	HIS	CE1-NE2	5.91	1.38	1.32
1	ln	159	GLU	CA-C	5.91	1.59	1.52
1	lt	79	GLU	C-N	5.91	1.41	1.33
1	3Q	221	VAL	CA-C	-5.91	1.46	1.52
1	46	92	GLU	N-CA	-5.91	1.36	1.45
1	5x	183	ASN	C-N	5.91	1.41	1.34
1	5K	38	PRO	C-N	5.91	1.41	1.33
1	6R	74	ASN	CA-CB	5.91	1.62	1.53
1	7d	229	ARG	CD-NE	5.91	1.54	1.46
1	7u	128	GLU	CA-C	-5.91	1.45	1.52
1	7X	105	ALA	CA-C	5.91	1.60	1.52
1	8g	97	ARG	C-O	-5.91	1.16	1.23
1	92	82	ARG	NE-CZ	5.91	1.39	1.33
1	9c	82	ARG	CA-CB	5.91	1.62	1.53
1	9g	141	ILE	C-N	5.91	1.41	1.33
1	9p	178	SER	N-CA	5.91	1.53	1.45
1	9s	60	GLY	C-N	5.91	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cX	168	PHE	CA-C	5.91	1.60	1.52
1	d4	22	ALA	C-N	5.91	1.41	1.33
1	dH	20	LEU	CA-CB	5.91	1.62	1.53
1	fu	44	SER	CA-C	-5.91	1.44	1.52
1	fJ	194	ALA	C-N	5.91	1.42	1.33
1	fW	121	ASN	CA-C	5.91	1.58	1.52
1	g4	133	TRP	CA-CB	5.91	1.63	1.53
1	j	134	ILE	C-N	-5.91	1.26	1.34
1	x	176	GLN	CA-CB	5.91	1.62	1.53
1	Q	10	MET	CA-C	-5.91	1.45	1.52
1	gJ	42	ALA	CA-CB	5.91	1.63	1.53
1	gS	20	LEU	N-CA	-5.91	1.39	1.46
1	h0	62	HIS	C-N	5.91	1.41	1.33
1	h0	215	MET	CG-SD	5.91	1.95	1.80
1	hJ	230	VAL	N-CA	-5.91	1.39	1.46
1	hV	197	ASP	C-N	5.91	1.41	1.33
1	iE	18	ARG	N-CA	-5.91	1.39	1.46
1	iP	66	MET	N-CA	-5.91	1.38	1.46
1	ji	212	GLU	C-N	5.91	1.41	1.33
1	jj	99	PRO	C-N	5.91	1.41	1.33
1	1V	22	ALA	CA-C	5.91	1.60	1.52
1	jo	3	VAL	N-CA	-5.91	1.39	1.46
1	jK	136	LEU	CA-C	-5.91	1.45	1.52
1	k4	120	HIS	CB-CG	-5.91	1.41	1.50
1	ko	91	ILE	CA-C	5.91	1.59	1.52
1	kr	24	VAL	CA-C	-5.91	1.45	1.52
1	25	164	TYR	CA-CB	5.91	1.62	1.53
1	lD	12	HIS	CA-C	-5.91	1.45	1.52
1	2n	177	ALA	N-CA	5.91	1.53	1.46
1	2D	205	LEU	CA-CB	-5.91	1.44	1.53
1	2G	87	HIS	CD2-NE2	5.91	1.44	1.37
1	30	129	ILE	CA-CB	-5.91	1.48	1.54
1	4k	51	ASP	CA-CB	5.91	1.62	1.53
1	4m	169	TYR	C-O	-5.91	1.17	1.24
1	4N	47	ALA	C-N	5.91	1.44	1.33
1	5p	12	HIS	CA-CB	5.91	1.63	1.53
1	5p	223	GLY	C-N	5.91	1.38	1.33
1	5z	230	VAL	C-O	-5.91	1.17	1.24
1	6i	132	ARG	CD-NE	5.91	1.54	1.46
1	6k	219	GLN	C-N	5.91	1.42	1.33
1	6l	135	ILE	CA-CB	5.91	1.62	1.54
1	6K	82	ARG	N-CA	-5.91	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Q	3	VAL	CA-CB	5.91	1.62	1.54
1	7F	53	ASN	CA-CB	5.91	1.62	1.53
1	8n	165	VAL	C-N	5.91	1.41	1.33
1	8t	151	LEU	N-CA	5.91	1.53	1.46
1	8J	174	ALA	N-CA	-5.91	1.38	1.46
1	96	142	VAL	N-CA	-5.91	1.39	1.46
1	9v	193	ASN	C-N	5.91	1.41	1.33
1	9z	196	PRO	CA-C	-5.91	1.43	1.52
1	9O	63	GLN	N-CA	5.91	1.54	1.46
1	9Q	178	SER	CA-CB	5.91	1.62	1.53
1	9Y	42	ALA	CA-C	5.91	1.60	1.52
1	aa	16	SER	CA-C	5.91	1.60	1.53
1	ac	148	THR	CA-C	-5.91	1.45	1.52
1	ad	173	ARG	CA-CB	5.91	1.62	1.53
1	12	18	ARG	C-N	5.91	1.42	1.33
1	b3	115	ILE	CA-CB	-5.91	1.47	1.54
1	bo	169	TYR	CA-CB	5.91	1.62	1.53
1	bx	82	ARG	NE-CZ	5.91	1.39	1.33
1	bH	74	ASN	N-CA	5.91	1.53	1.46
1	c7	157	PRO	C-O	5.91	1.31	1.24
1	cu	124	ILE	CB-CG1	5.91	1.65	1.53
1	cL	151	LEU	CA-CB	5.91	1.63	1.53
1	dc	88	ALA	N-CA	-5.91	1.38	1.46
1	dL	190	LEU	CA-CB	5.91	1.63	1.53
1	dU	51	ASP	C-O	-5.91	1.17	1.24
1	eA	201	ILE	N-CA	-5.91	1.39	1.46
1	f5	174	ALA	C-N	5.91	1.41	1.33
1	f8	127	GLY	CA-C	-5.91	1.45	1.52
1	fc	107	THR	CA-C	5.91	1.60	1.52
1	fs	13	GLN	C-N	5.91	1.41	1.33
1	1x	144	MET	CA-C	5.91	1.60	1.52
1	fu	217	ALA	C-N	5.91	1.41	1.33
1	fF	108	THR	N-CA	-5.91	1.39	1.46
1	gD	24	VAL	CA-CB	-5.91	1.47	1.54
1	gZ	164	TYR	CA-C	5.91	1.60	1.52
1	hT	168	PHE	CA-C	5.91	1.60	1.52
1	1N	170	LYS	CA-CB	5.91	1.62	1.53
1	ir	75	GLU	CA-C	-5.91	1.45	1.52
1	iN	87	HIS	CA-C	5.91	1.60	1.52
1	iO	175	GLU	N-CA	5.91	1.53	1.46
1	iV	134	ILE	C-N	5.91	1.41	1.33
1	j1	120	HIS	CB-CG	5.91	1.58	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ja	209	ALA	C-N	5.91	1.41	1.33
1	js	15	ILE	CA-C	5.91	1.59	1.52
1	jK	82	ARG	CA-CB	5.91	1.62	1.53
1	jY	214	MET	N-CA	5.91	1.54	1.46
1	k1	36	VAL	C-N	5.91	1.40	1.33
1	24	120	HIS	CG-CD2	5.91	1.42	1.35
1	kR	56	LEU	N-CA	-5.91	1.38	1.46
1	25	116	GLY	CA-C	5.91	1.58	1.52
1	lh	155	GLN	CA-C	-5.91	1.45	1.52
1	ln	69	LEU	CA-C	5.91	1.60	1.52
1	2a	96	MET	N-CA	-5.91	1.38	1.46
1	lP	160	PRO	CA-CB	5.91	1.62	1.53
1	2L	66	MET	C-O	-5.91	1.17	1.24
1	2N	45	GLU	C-N	5.91	1.40	1.33
1	2P	9	GLN	CA-CB	5.91	1.60	1.52
1	2S	73	ILE	N-CA	5.91	1.53	1.46
1	35	82	ARG	NE-CZ	5.91	1.39	1.33
1	36	40	PHE	CA-C	5.91	1.60	1.52
1	3c	86	VAL	CA-C	5.91	1.59	1.52
1	3n	203	LYS	CA-CB	5.91	1.62	1.53
1	3u	120	HIS	CA-CB	5.91	1.62	1.53
1	3w	187	GLU	CA-CB	5.91	1.62	1.53
1	4e	130	TYR	C-N	5.91	1.41	1.34
1	4m	95	GLN	N-CA	-5.91	1.38	1.45
1	5i	57	ASN	CA-C	-5.91	1.44	1.52
1	5p	33	SER	CA-C	5.91	1.60	1.52
1	5q	31	ALA	C-N	5.91	1.42	1.33
1	5P	96	MET	CA-C	5.91	1.60	1.52
1	5Z	108	THR	C-N	5.91	1.41	1.33
1	60	168	PHE	CA-C	-5.91	1.45	1.52
1	6b	90	PRO	CA-CB	5.91	1.62	1.53
1	6O	120	HIS	CA-C	5.91	1.61	1.53
1	77	139	ASN	CA-C	5.91	1.60	1.52
1	7y	84	HIS	ND1-CE1	5.91	1.38	1.32
1	8i	133	TRP	CA-CB	5.91	1.62	1.53
1	8k	40	PHE	CA-CB	5.91	1.62	1.53
1	8L	142	VAL	CA-CB	-5.91	1.46	1.54
1	8M	63	GLN	C-O	-5.91	1.17	1.24
1	9i	51	ASP	C-N	5.91	1.41	1.33
1	9i	148	THR	CA-C	-5.91	1.45	1.52
1	9n	70	LYS	CA-C	-5.91	1.45	1.52
1	9S	209	ALA	CA-C	5.91	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aX	107	THR	N-CA	5.91	1.53	1.46
1	b0	123	PRO	CA-C	-5.91	1.45	1.52
1	b8	201	ILE	N-CA	-5.91	1.38	1.46
1	cZ	197	ASP	N-CA	-5.91	1.39	1.46
1	db	51	ASP	CA-CB	5.91	1.62	1.53
1	dw	152	ASP	CA-C	-5.91	1.45	1.52
1	ea	179	GLN	CA-CB	5.91	1.63	1.53
1	fT	168	PHE	N-CA	-5.91	1.39	1.46
1	p	197	ASP	C-O	-5.91	1.17	1.24
1	u	12	HIS	CA-C	-5.91	1.45	1.52
1	gQ	83	LEU	CA-C	5.91	1.60	1.52
1	gX	10	MET	CA-C	5.91	1.60	1.52
1	1K	161	PHE	CA-CB	5.91	1.63	1.53
1	ia	186	THR	N-CA	-5.91	1.39	1.46
1	k4	219	GLN	CA-CB	5.91	1.63	1.53
1	ka	144	MET	CA-CB	5.91	1.62	1.53
1	21	53	ASN	CA-C	-5.91	1.45	1.52
1	kF	213	GLU	CA-CB	5.91	1.62	1.53
1	kV	167	ARG	C-N	5.91	1.41	1.33
1	kX	55	MET	C-N	5.91	1.41	1.33
1	lc	162	ARG	CD-NE	5.91	1.54	1.46
1	ll	189	LEU	CA-CB	5.91	1.62	1.53
1	2c	10	MET	CA-CB	5.91	1.62	1.53
1	2X	205	LEU	CA-CB	5.91	1.62	1.53
1	38	98	GLU	CA-C	5.91	1.60	1.53
1	3s	182	LYS	N-CA	-5.91	1.39	1.46
1	3u	140	LYS	C-N	5.91	1.41	1.33
1	3z	190	LEU	CA-CB	5.91	1.62	1.53
1	3Z	230	VAL	CA-CB	-5.91	1.46	1.54
1	4A	84	HIS	CB-CG	5.91	1.58	1.50
1	5C	160	PRO	CA-CB	5.91	1.61	1.53
1	5T	175	GLU	CA-C	-5.91	1.45	1.53
1	63	69	LEU	N-CA	5.91	1.53	1.46
1	6y	85	PRO	CA-C	5.91	1.60	1.52
1	6V	224	PRO	CA-C	-5.91	1.44	1.52
1	73	224	PRO	C-N	5.91	1.41	1.33
1	76	132	ARG	CA-C	-5.91	1.44	1.52
1	9O	174	ALA	N-CA	-5.91	1.38	1.46
1	al	169	TYR	N-CA	-5.91	1.38	1.46
1	aC	11	VAL	N-CA	-5.91	1.39	1.46
1	bT	186	THR	C-N	5.91	1.42	1.33
1	ck	147	PRO	CA-C	5.91	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cn	28	GLU	C-N	5.91	1.42	1.33
1	cO	180	GLU	CA-CB	5.91	1.62	1.53
1	d5	93	PRO	C-N	5.91	1.42	1.33
1	ef	77	ALA	N-CA	-5.91	1.39	1.46
1	gE	125	PRO	N-CD	-5.91	1.39	1.47
1	h3	226	HIS	CA-CB	5.91	1.63	1.53
1	hi	79	GLU	CA-C	5.91	1.60	1.52
1	hP	68	MET	N-CA	-5.91	1.38	1.46
1	ij	195	ASN	CA-C	5.91	1.60	1.52
1	iQ	126	VAL	N-CA	-5.91	1.39	1.46
1	iT	16	SER	CA-C	-5.91	1.46	1.53
1	iT	145	TYR	CA-C	5.91	1.61	1.52
1	j7	92	GLU	N-CA	5.91	1.51	1.45
1	1U	102	SER	CA-CB	5.91	1.63	1.53
1	jg	49	PRO	CA-C	5.91	1.60	1.52
1	1V	179	GLN	C-O	-5.91	1.16	1.24
1	jo	70	LYS	CA-C	5.91	1.60	1.52
1	k5	8	GLY	N-CA	-5.91	1.38	1.45
1	kc	191	VAL	CA-C	5.91	1.60	1.52
1	kj	75	GLU	C-N	5.91	1.41	1.33
1	kq	19	THR	N-CA	5.91	1.53	1.46
1	kv	162	ARG	CD-NE	5.91	1.54	1.46
1	kZ	143	ARG	NE-CZ	5.91	1.39	1.33
1	l0	167	ARG	CD-NE	5.91	1.54	1.46
1	l7	185	MET	CA-C	5.91	1.60	1.52
1	lo	169	TYR	CA-C	-5.91	1.45	1.52
1	2r	205	LEU	CA-CB	5.91	1.62	1.53
1	2S	225	GLY	C-O	-5.91	1.17	1.24
1	3c	5	ASN	C-N	-5.91	1.25	1.33
1	3i	168	PHE	CA-C	5.91	1.60	1.52
1	3n	22	ALA	CA-C	5.91	1.60	1.52
1	3r	85	PRO	CA-CB	5.91	1.61	1.53
1	3S	228	ALA	CA-CB	5.91	1.62	1.53
1	4K	25	LYS	CA-CB	5.91	1.63	1.53
1	54	179	GLN	CA-C	5.91	1.60	1.52
1	58	213	GLU	CA-CB	5.91	1.62	1.53
1	5v	81	ASP	N-CA	-5.91	1.39	1.46
1	5N	134	ILE	C-N	5.91	1.41	1.33
1	5Y	24	VAL	C-N	5.91	1.41	1.34
1	66	53	ASN	CA-CB	5.91	1.62	1.53
1	6l	152	ASP	N-CA	5.91	1.53	1.46
1	6n	99	PRO	N-CA	-5.91	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6x	166	ASP	CA-C	5.91	1.60	1.52
1	6M	63	GLN	N-CA	5.91	1.53	1.46
1	6N	14	ALA	CA-CB	5.91	1.63	1.53
1	76	33	SER	CA-CB	5.91	1.61	1.53
1	7B	161	PHE	CA-CB	5.91	1.62	1.53
1	7J	101	GLY	N-CA	5.91	1.53	1.45
1	8c	71	GLU	CA-CB	5.91	1.63	1.53
1	8f	125	PRO	N-CA	5.91	1.55	1.47
1	8o	29	GLU	CA-C	5.91	1.60	1.52
1	8O	227	LYS	C-N	5.91	1.41	1.33
1	9f	47	ALA	N-CA	-5.91	1.38	1.46
1	9z	139	ASN	CA-C	-5.91	1.45	1.52
1	9K	12	HIS	C-N	5.91	1.41	1.33
1	a9	12	HIS	CG-CD2	5.91	1.42	1.35
1	a9	30	LYS	CA-C	-5.91	1.45	1.52
1	10	118	MET	C-N	5.91	1.41	1.33
1	ad	200	THR	CB-OG1	-5.91	1.34	1.43
1	aU	92	GLU	CA-CB	5.91	1.62	1.52
1	b4	157	PRO	N-CD	5.91	1.56	1.47
1	16	161	PHE	CA-CB	5.91	1.62	1.53
1	bl	229	ARG	CA-C	-5.91	1.45	1.52
1	bq	211	LEU	C-N	5.91	1.41	1.33
1	bw	177	ALA	CA-C	5.91	1.60	1.52
1	co	27	VAL	CA-CB	-5.91	1.47	1.54
1	co	37	ILE	C-N	5.91	1.41	1.34
1	cv	161	PHE	C-N	5.91	1.41	1.33
1	cF	1	PRO	C-N	-5.91	1.23	1.33
1	cZ	104	ILE	N-CA	5.91	1.53	1.46
1	dL	181	VAL	CA-CB	-5.91	1.46	1.54
1	1n	70	LYS	CA-C	5.91	1.60	1.52
1	dX	202	LEU	CA-CB	5.91	1.62	1.53
1	e5	127	GLY	CA-C	5.91	1.58	1.52
1	es	15	ILE	CA-C	5.91	1.60	1.52
1	1r	203	LYS	CA-CB	5.91	1.63	1.53
1	1t	198	CYS	CA-CB	5.91	1.62	1.53
1	fn	68	MET	N-CA	5.91	1.53	1.46
1	fz	129	ILE	N-CA	5.91	1.53	1.46
1	1y	29	GLU	CA-CB	5.91	1.62	1.53
1	fJ	92	GLU	C-N	5.91	1.40	1.33
1	fO	62	HIS	CA-CB	5.91	1.62	1.53
1	fR	138	LEU	CA-CB	5.91	1.62	1.53
1	fZ	176	GLN	N-CA	5.91	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	132	ARG	N-CA	-5.91	1.39	1.46
1	2	11	VAL	CA-C	-5.91	1.45	1.52
1	4	226	HIS	CB-CG	5.91	1.58	1.50
1	R	27	VAL	N-CA	-5.91	1.39	1.46
1	gb	133	TRP	CA-C	5.90	1.60	1.52
1	hA	207	PRO	N-CA	5.90	1.54	1.47
1	iC	161	PHE	CA-CB	5.90	1.63	1.53
1	1U	227	LYS	CA-CB	5.90	1.63	1.53
1	jn	76	GLU	C-N	5.90	1.41	1.33
1	ju	70	LYS	N-CA	-5.90	1.38	1.46
1	jM	125	PRO	N-CA	-5.90	1.39	1.47
1	kh	195	ASN	CA-CB	5.90	1.62	1.53
1	kB	113	GLU	CA-C	-5.90	1.45	1.52
1	lB	4	GLN	CA-C	5.90	1.61	1.53
1	lJ	217	ALA	C-O	5.90	1.30	1.24
1	2s	133	TRP	N-CA	-5.90	1.39	1.46
1	2Y	7	GLN	C-N	5.90	1.42	1.33
1	3M	38	PRO	C-N	5.90	1.41	1.33
1	4g	49	PRO	C-N	5.90	1.42	1.33
1	4g	140	LYS	CA-C	5.90	1.60	1.52
1	4v	24	VAL	N-CA	-5.90	1.39	1.46
1	5n	36	VAL	CA-CB	-5.90	1.47	1.54
1	5Z	172	LEU	CA-CB	5.90	1.62	1.53
1	6m	75	GLU	C-N	5.90	1.41	1.33
1	6G	145	TYR	CA-CB	5.90	1.60	1.52
1	8l	10	MET	CA-C	5.90	1.60	1.52
1	8w	128	GLU	C-N	5.90	1.41	1.33
1	96	208	ALA	CA-C	5.90	1.60	1.52
1	a7	87	HIS	ND1-CE1	5.90	1.38	1.32
1	a9	33	SER	C-N	-5.90	1.27	1.34
1	at	3	VAL	CA-C	5.90	1.59	1.52
1	au	168	PHE	CA-CB	5.90	1.62	1.53
1	aK	229	ARG	CD-NE	5.90	1.54	1.46
1	bN	39	MET	CA-CB	5.90	1.62	1.53
1	cf	67	GLN	C-N	5.90	1.41	1.33
1	dD	44	SER	CA-CB	5.90	1.61	1.53
1	ei	226	HIS	CA-CB	5.90	1.63	1.53
1	1w	183	ASN	CA-C	5.90	1.60	1.52
1	fq	226	HIS	ND1-CE1	5.90	1.38	1.32
1	E	163	ASP	N-CA	-5.90	1.38	1.46
1	g8	82	ARG	N-CA	-5.90	1.38	1.46
1	gS	230	VAL	CA-C	5.90	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hp	214	MET	CA-CB	5.90	1.63	1.53
1	hG	18	ARG	CZ-NH2	-5.90	1.25	1.33
1	hL	229	ARG	CA-C	5.90	1.60	1.52
1	hP	53	ASN	CA-CB	5.90	1.62	1.53
1	hV	73	ILE	C-N	5.90	1.41	1.33
1	hZ	104	ILE	N-CA	5.90	1.53	1.46
1	hZ	229	ARG	CD-NE	5.90	1.54	1.46
1	ib	147	PRO	C-N	-5.90	1.25	1.33
1	ih	124	ILE	N-CA	-5.90	1.42	1.46
1	iZ	31	ALA	CA-C	-5.90	1.45	1.52
1	jm	169	TYR	C-N	5.90	1.41	1.33
1	jL	173	ARG	CA-C	5.90	1.60	1.52
1	jM	32	PHE	C-N	5.90	1.40	1.33
1	jY	55	MET	CA-CB	5.90	1.62	1.53
1	ka	10	MET	N-CA	-5.90	1.38	1.46
1	kq	18	ARG	CD-NE	5.90	1.54	1.46
1	l1	21	ASN	N-CA	5.90	1.53	1.46
1	l9	11	VAL	CA-CB	-5.90	1.47	1.54
1	lE	62	HIS	CE1-NE2	5.90	1.38	1.32
1	2q	226	HIS	CA-CB	5.90	1.63	1.53
1	2z	51	ASP	C-O	-5.90	1.17	1.24
1	32	167	ARG	CD-NE	5.90	1.54	1.46
1	3h	100	ARG	CD-NE	5.90	1.54	1.46
1	3A	2	ILE	CA-CB	5.90	1.61	1.54
1	3H	7	GLN	CA-C	5.90	1.60	1.52
1	3Q	226	HIS	CD2-NE2	5.90	1.44	1.37
1	4L	135	ILE	C-N	5.90	1.41	1.33
1	5g	54	THR	C-N	5.90	1.41	1.33
1	5j	120	HIS	ND1-CE1	5.90	1.38	1.32
1	6t	120	HIS	ND1-CE1	5.90	1.38	1.32
1	6B	117	TRP	CZ2-CH2	5.90	1.48	1.37
1	6H	31	ALA	C-N	5.90	1.42	1.33
1	6J	230	VAL	CA-CB	5.90	1.59	1.53
1	7a	85	PRO	N-CA	-5.90	1.40	1.47
1	7X	145	TYR	CA-C	-5.90	1.44	1.52
1	8Q	5	ASN	CA-CB	5.90	1.61	1.53
1	8Q	6	LEU	CA-CB	-5.90	1.43	1.53
1	9a	160	PRO	CA-C	-5.90	1.44	1.52
1	9P	5	ASN	CA-C	5.90	1.59	1.52
1	Y	168	PHE	CA-C	5.90	1.60	1.52
1	ak	52	LEU	CA-CB	5.90	1.62	1.53
1	aA	205	LEU	CA-C	5.90	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aF	44	SER	CA-CB	5.90	1.62	1.53
1	aI	120	HIS	C-O	-5.90	1.16	1.23
1	bd	84	HIS	CA-C	5.90	1.59	1.52
1	bn	90	PRO	N-CD	5.90	1.56	1.47
1	bq	29	GLU	CA-C	-5.90	1.46	1.53
1	by	217	ALA	C-N	5.90	1.42	1.33
1	19	203	LYS	CA-C	-5.90	1.44	1.52
1	bF	143	ARG	CD-NE	5.90	1.54	1.46
1	bK	123	PRO	N-CD	-5.90	1.39	1.47
1	cd	83	LEU	C-O	5.90	1.31	1.24
1	cg	12	HIS	ND1-CE1	5.90	1.38	1.32
1	ci	149	SER	N-CA	-5.90	1.39	1.46
1	ci	184	TRP	NE1-CE2	-5.90	1.30	1.37
1	cr	149	SER	CA-CB	5.90	1.62	1.53
1	cw	21	ASN	C-O	-5.90	1.17	1.24
1	cy	124	ILE	N-CA	-5.90	1.42	1.46
1	cy	130	TYR	N-CA	5.90	1.53	1.46
1	dP	142	VAL	N-CA	5.90	1.53	1.46
1	1p	70	LYS	N-CA	-5.90	1.39	1.46
1	eG	113	GLU	CA-C	5.90	1.60	1.52
1	f8	14	ALA	N-CA	-5.90	1.38	1.46
1	g4	13	GLN	N-CA	-5.90	1.38	1.45
1	k	53	ASN	CA-C	5.90	1.60	1.52
1	T	54	THR	N-CA	5.90	1.53	1.46
1	h4	143	ARG	CD-NE	5.90	1.54	1.46
1	hb	162	ARG	CD-NE	5.90	1.54	1.46
1	iq	118	MET	N-CA	-5.90	1.38	1.46
1	iA	79	GLU	N-CA	-5.90	1.39	1.46
1	j8	39	MET	CA-CB	5.90	1.62	1.53
1	jb	95	GLN	N-CA	5.90	1.53	1.45
1	jp	208	ALA	CA-C	-5.90	1.43	1.52
1	jT	224	PRO	C-O	5.90	1.30	1.23
1	jZ	173	ARG	CZ-NH2	-5.90	1.25	1.33
1	k5	8	GLY	CA-C	-5.90	1.44	1.52
1	kH	20	LEU	N-CA	5.90	1.53	1.46
1	kH	84	HIS	N-CA	-5.90	1.40	1.46
1	kX	56	LEU	C-O	-5.90	1.17	1.24
1	lE	37	ILE	CA-CB	5.90	1.57	1.54
1	2p	16	SER	C-N	-5.90	1.26	1.34
1	2r	62	HIS	CE1-NE2	5.90	1.38	1.32
1	2S	192	GLN	CA-C	5.90	1.60	1.52
1	3B	199	LYS	CA-C	-5.90	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3N	36	VAL	CA-CB	5.90	1.61	1.54
1	3Q	111	LEU	C-N	5.90	1.42	1.33
1	3U	73	ILE	CA-CB	-5.90	1.47	1.54
1	3Y	38	PRO	CA-CB	5.90	1.62	1.53
1	40	88	ALA	CA-C	-5.90	1.45	1.52
1	4a	121	ASN	CA-CB	5.90	1.60	1.53
1	4b	117	TRP	CA-CB	5.90	1.62	1.53
1	4z	37	ILE	CA-C	5.90	1.59	1.52
1	4U	199	LYS	CA-CB	5.90	1.62	1.53
1	4W	155	GLN	CA-CB	5.90	1.61	1.53
1	58	96	MET	CA-CB	5.90	1.62	1.53
1	59	95	GLN	CA-C	5.90	1.60	1.52
1	5j	3	VAL	CA-C	5.90	1.59	1.52
1	5l	219	GLN	CA-CB	5.90	1.62	1.53
1	5G	168	PHE	CA-CB	5.90	1.62	1.53
1	6j	82	ARG	CA-CB	5.90	1.62	1.53
1	6p	167	ARG	CA-CB	5.90	1.62	1.53
1	6A	22	ALA	C-O	-5.90	1.17	1.24
1	6A	80	TRP	NE1-CE2	-5.90	1.30	1.37
1	6A	190	LEU	C-N	5.90	1.41	1.33
1	6N	168	PHE	CA-CB	5.90	1.62	1.53
1	6S	155	GLN	N-CA	-5.90	1.38	1.46
1	7k	55	MET	C-N	5.90	1.42	1.34
1	7H	184	TRP	NE1-CE2	-5.90	1.30	1.37
1	8C	121	ASN	CA-CB	5.90	1.60	1.53
1	9A	107	THR	CA-C	-5.90	1.46	1.53
1	14	167	ARG	NE-CZ	-5.90	1.26	1.33
1	14	227	LYS	C-N	5.90	1.42	1.33
1	aP	167	ARG	CA-CB	5.90	1.62	1.53
1	b0	128	GLU	C-N	5.90	1.41	1.34
1	bh	219	GLN	CA-CB	5.90	1.60	1.53
1	bm	74	ASN	CA-CB	5.90	1.62	1.53
1	bx	12	HIS	CE1-NE2	5.90	1.38	1.32
1	dI	110	THR	CA-C	-5.90	1.44	1.53
1	dZ	84	HIS	CA-C	-5.90	1.47	1.52
1	ec	3	VAL	C-N	5.90	1.41	1.33
1	ej	84	HIS	CB-CG	5.90	1.58	1.50
1	1r	181	VAL	C-N	5.90	1.41	1.33
1	1s	22	ALA	N-CA	-5.90	1.39	1.46
1	eG	6	LEU	CA-C	-5.90	1.45	1.52
1	f6	33	SER	CA-CB	5.90	1.62	1.53
1	f7	59	VAL	N-CA	5.90	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1y	230	VAL	C-O	-5.90	1.18	1.24
1	O	40	PHE	CA-CB	5.90	1.62	1.53
1	P	77	ALA	C-N	5.90	1.41	1.33
1	1J	162	ARG	C-N	5.90	1.42	1.34
1	hK	62	HIS	CG-CD2	-5.90	1.29	1.35
1	hQ	21	ASN	C-N	5.90	1.42	1.33
1	if	117	TRP	CE2-CZ2	-5.90	1.27	1.39
1	ir	149	SER	CA-C	-5.90	1.45	1.52
1	iO	152	ASP	CA-CB	5.90	1.63	1.53
1	jR	106	GLY	N-CA	5.90	1.53	1.45
1	kc	100	ARG	CD-NE	5.90	1.54	1.46
1	kP	215	MET	CA-CB	-5.90	1.44	1.53
1	lI	50	GLN	C-O	-5.90	1.17	1.24
1	lI	123	PRO	C-N	5.90	1.38	1.33
1	lN	213	GLU	C-N	5.90	1.42	1.34
1	3h	103	ASP	N-CA	-5.90	1.38	1.46
1	3K	90	PRO	C-N	5.90	1.40	1.33
1	3P	59	VAL	CA-C	5.90	1.59	1.52
1	4y	44	SER	CA-CB	5.90	1.63	1.53
1	4H	147	PRO	CA-CB	5.90	1.62	1.53
1	4V	62	HIS	CE1-NE2	5.90	1.38	1.32
1	5G	87	HIS	C-O	5.90	1.31	1.24
1	66	213	GLU	CA-CB	5.90	1.62	1.53
1	6G	69	LEU	CA-C	-5.90	1.45	1.52
1	6P	35	GLU	C-N	5.90	1.41	1.33
1	77	19	THR	C-N	5.90	1.42	1.33
1	7M	120	HIS	CD2-NE2	5.90	1.44	1.37
1	88	147	PRO	N-CA	5.90	1.55	1.47
1	8z	112	GLN	C-O	-5.90	1.17	1.24
1	94	105	ALA	CA-C	5.90	1.61	1.52
1	9b	212	GLU	CA-CB	5.90	1.63	1.53
1	aS	50	GLN	CA-CB	5.90	1.62	1.53
1	aS	67	GLN	C-N	5.90	1.41	1.33
1	bB	124	ILE	CA-CB	5.90	1.61	1.54
1	cU	168	PHE	CA-C	5.90	1.60	1.52
1	cV	120	HIS	CD2-NE2	5.90	1.44	1.37
1	1j	161	PHE	CA-C	5.90	1.60	1.52
1	dA	212	GLU	CA-C	-5.90	1.45	1.52
1	dC	118	MET	C-N	5.90	1.42	1.33
1	1r	223	GLY	C-N	5.90	1.41	1.33
1	eR	53	ASN	N-CA	-5.90	1.39	1.46
1	F	226	HIS	CA-C	-5.90	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	71	GLU	C-O	-5.90	1.17	1.24
1	gt	143	ARG	N-CA	5.90	1.53	1.46
1	gu	176	GLN	N-CA	-5.90	1.39	1.46
1	1F	211	LEU	N-CA	-5.90	1.39	1.46
1	h8	130	TYR	N-CA	5.90	1.53	1.46
1	hZ	29	GLU	N-CA	-5.90	1.39	1.46
1	ik	187	GLU	CA-C	5.90	1.60	1.52
1	iv	87	HIS	ND1-CE1	5.90	1.38	1.32
1	1Q	166	ASP	CA-CB	5.90	1.62	1.53
1	iy	58	THR	C-N	5.90	1.40	1.33
1	1S	150	ILE	C-O	-5.90	1.17	1.24
1	j3	130	TYR	CA-CB	5.90	1.62	1.53
1	jc	211	LEU	N-CA	5.90	1.53	1.46
1	jt	129	ILE	C-N	5.90	1.41	1.33
1	jL	4	GLN	CA-C	5.90	1.60	1.53
1	jZ	230	VAL	N-CA	5.90	1.53	1.46
1	21	100	ARG	CD-NE	5.90	1.54	1.46
1	ko	93	PRO	N-CA	-5.90	1.39	1.47
1	kr	54	THR	C-N	5.90	1.41	1.33
1	ku	228	ALA	CA-C	5.90	1.60	1.52
1	kz	46	GLY	C-N	5.90	1.41	1.33
1	kC	146	SER	CA-CB	5.90	1.62	1.53
1	kI	87	HIS	C-N	5.90	1.41	1.33
1	kT	226	HIS	ND1-CE1	5.90	1.38	1.32
1	kY	223	GLY	C-N	5.90	1.38	1.33
1	lk	163	ASP	CA-C	5.90	1.60	1.52
1	2q	26	VAL	CA-CB	-5.90	1.46	1.54
1	2z	77	ALA	C-N	-5.90	1.26	1.34
1	2G	10	MET	N-CA	-5.90	1.38	1.46
1	2J	54	THR	C-O	-5.90	1.17	1.24
1	4b	178	SER	CA-C	5.90	1.60	1.52
1	4e	23	TRP	NE1-CE2	-5.90	1.30	1.37
1	5n	101	GLY	CA-C	5.90	1.58	1.52
1	5S	80	TRP	CA-C	5.90	1.60	1.52
1	5T	84	HIS	CD2-NE2	5.90	1.44	1.37
1	6f	153	ILE	CA-CB	-5.90	1.48	1.54
1	6l	172	LEU	CA-C	-5.90	1.44	1.52
1	6u	123	PRO	C-N	5.90	1.40	1.33
1	6C	228	ALA	N-CA	-5.90	1.38	1.45
1	6M	136	LEU	CA-CB	5.90	1.62	1.53
1	6Q	59	VAL	CA-CB	-5.90	1.46	1.53
1	6T	189	LEU	N-CA	5.90	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	70	114	GLN	CA-CB	5.90	1.62	1.53
1	7d	8	GLY	CA-C	-5.90	1.43	1.51
1	7v	119	THR	C-N	5.90	1.41	1.33
1	7F	66	MET	C-O	-5.90	1.17	1.24
1	7Y	97	ARG	CA-CB	5.90	1.63	1.53
1	8a	107	THR	CA-C	5.90	1.60	1.52
1	8c	111	LEU	CA-CB	5.90	1.62	1.53
1	8j	224	PRO	CA-CB	5.90	1.61	1.53
1	8k	95	GLN	C-N	5.90	1.41	1.33
1	8R	167	ARG	N-CA	-5.90	1.39	1.46
1	9a	17	PRO	N-CA	-5.90	1.39	1.47
1	9v	120	HIS	CA-CB	5.90	1.62	1.53
1	9y	124	ILE	N-CA	-5.90	1.40	1.46
1	9F	140	LYS	N-CA	-5.90	1.39	1.46
1	9U	209	ALA	C-N	5.90	1.41	1.33
1	9Y	170	LYS	C-N	5.90	1.41	1.33
1	Z	214	MET	CA-CB	5.90	1.62	1.53
1	10	194	ALA	CA-CB	5.90	1.63	1.53
1	al	41	SER	CA-C	-5.90	1.45	1.52
1	12	221	VAL	C-O	5.90	1.30	1.24
1	aw	212	GLU	CA-C	5.90	1.60	1.52
1	bn	109	SER	CA-C	5.90	1.59	1.52
1	bq	173	ARG	CA-CB	5.90	1.62	1.53
1	bF	208	ALA	C-N	5.90	1.42	1.33
1	bH	59	VAL	CA-CB	-5.90	1.47	1.54
1	cb	21	ASN	C-N	5.90	1.41	1.33
1	cr	23	TRP	C-N	5.90	1.41	1.33
1	cU	203	LYS	CA-C	-5.90	1.45	1.52
1	d4	11	VAL	C-O	-5.90	1.17	1.24
1	dJ	162	ARG	CA-C	-5.90	1.45	1.52
1	e9	84	HIS	ND1-CE1	5.90	1.38	1.32
1	eb	179	GLN	N-CA	-5.90	1.38	1.46
1	ej	106	GLY	C-N	5.90	1.42	1.33
1	es	218	CYS	CA-CB	5.90	1.62	1.53
1	1t	60	GLY	N-CA	5.90	1.53	1.45
1	f1	20	LEU	C-N	5.90	1.41	1.33
1	f7	23	TRP	CA-CB	5.90	1.63	1.53
1	1w	226	HIS	ND1-CE1	5.90	1.38	1.32
1	fI	82	ARG	CA-CB	5.90	1.62	1.53
1	E	171	THR	CA-CB	5.90	1.62	1.53
1	gq	227	LYS	C-N	5.90	1.41	1.33
1	gM	100	ARG	C-N	5.90	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h6	143	ARG	CD-NE	5.90	1.54	1.46
1	h8	31	ALA	CA-C	5.90	1.60	1.52
1	hb	184	TRP	CA-CB	5.90	1.62	1.53
1	i3	120	HIS	CD2-NE2	5.90	1.44	1.37
1	ij	229	ARG	CZ-NH1	-5.90	1.24	1.32
1	ip	133	TRP	CA-CB	5.90	1.62	1.53
1	iU	123	PRO	C-N	5.90	1.39	1.33
1	jb	143	ARG	CD-NE	5.90	1.54	1.46
1	1U	169	TYR	CA-C	5.90	1.60	1.52
1	jv	165	VAL	N-CA	-5.90	1.39	1.46
1	ka	221	VAL	C-N	5.90	1.41	1.33
1	kF	14	ALA	CA-C	-5.90	1.45	1.52
1	kF	209	ALA	N-CA	5.90	1.53	1.46
1	kR	24	VAL	C-N	5.90	1.41	1.33
1	lC	66	MET	C-N	5.90	1.41	1.34
1	2R	226	HIS	ND1-CE1	5.90	1.38	1.32
1	2S	27	VAL	CA-CB	-5.90	1.47	1.54
1	3f	200	THR	CA-C	5.90	1.60	1.52
1	3U	157	PRO	C-O	-5.90	1.18	1.23
1	49	12	HIS	CB-CG	5.90	1.58	1.50
1	4p	36	VAL	C-N	5.90	1.40	1.33
1	52	62	HIS	CE1-NE2	5.90	1.38	1.32
1	5e	126	VAL	CA-CB	5.90	1.62	1.54
1	5g	108	THR	N-CA	5.90	1.52	1.46
1	5g	143	ARG	CD-NE	5.90	1.54	1.46
1	6e	22	ALA	C-N	5.90	1.41	1.33
1	6s	113	GLU	CA-C	5.90	1.60	1.52
1	70	146	SER	C-O	-5.90	1.19	1.25
1	7F	154	ARG	CD-NE	5.90	1.54	1.46
1	89	115	ILE	CA-C	-5.90	1.44	1.52
1	9B	167	ARG	N-CA	-5.90	1.39	1.46
1	10	116	GLY	CA-C	-5.90	1.45	1.52
1	ak	114	GLN	CA-CB	5.90	1.62	1.53
1	aw	117	TRP	NE1-CE2	5.90	1.44	1.37
1	ay	70	LYS	N-CA	5.90	1.53	1.46
1	13	12	HIS	C-N	5.90	1.40	1.33
1	ba	63	GLN	CA-C	5.90	1.60	1.52
1	bO	67	GLN	CA-C	5.90	1.60	1.52
1	d6	220	GLY	CA-C	-5.90	1.44	1.51
1	dq	28	GLU	CA-CB	5.90	1.62	1.53
1	1p	100	ARG	CD-NE	5.90	1.54	1.46
1	ec	183	ASN	C-N	5.90	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ej	151	LEU	C-N	5.90	1.41	1.33
1	fC	130	TYR	C-O	-5.90	1.17	1.24
1	m	193	ASN	CA-C	-5.90	1.44	1.52
1	o	107	THR	N-CA	5.90	1.53	1.46
1	gZ	75	GLU	C-N	-5.89	1.25	1.33
1	h4	185	MET	CA-C	-5.89	1.45	1.52
1	h6	186	THR	CA-C	5.89	1.60	1.52
1	hd	132	ARG	CD-NE	5.89	1.54	1.46
1	hg	55	MET	C-N	5.89	1.41	1.33
1	hE	62	HIS	CG-CD2	5.89	1.42	1.35
1	hS	114	GLN	CA-C	-5.89	1.45	1.52
1	i1	204	ALA	CA-CB	5.89	1.62	1.53
1	i2	84	HIS	CE1-NE2	5.89	1.38	1.32
1	1P	154	ARG	CD-NE	5.89	1.54	1.46
1	iO	117	TRP	CA-C	5.89	1.60	1.52
1	iY	195	ASN	CA-CB	5.89	1.61	1.53
1	js	179	GLN	CA-CB	5.89	1.62	1.53
1	jO	179	GLN	CA-C	-5.89	1.45	1.52
1	kJ	197	ASP	N-CA	5.89	1.53	1.46
1	24	14	ALA	CA-C	5.89	1.60	1.52
1	lv	190	LEU	CB-CG	5.89	1.65	1.53
1	lG	224	PRO	CA-CB	5.89	1.62	1.53
1	lK	48	THR	CB-OG1	-5.89	1.34	1.43
1	2g	230	VAL	C-N	5.89	1.41	1.33
1	2n	125	PRO	N-CA	5.89	1.51	1.47
1	2t	12	HIS	CD2-NE2	5.89	1.44	1.37
1	2y	77	ALA	N-CA	-5.89	1.39	1.46
1	2G	33	SER	C-N	5.89	1.41	1.33
1	2G	174	ALA	CA-C	-5.89	1.45	1.52
1	2H	168	PHE	C-N	5.89	1.41	1.34
1	2S	216	THR	CA-C	5.89	1.61	1.52
1	36	86	VAL	CA-CB	-5.89	1.45	1.54
1	3k	84	HIS	CG-ND1	5.89	1.44	1.38
1	3x	227	LYS	C-N	5.89	1.40	1.33
1	4c	16	SER	CA-C	5.89	1.60	1.53
1	4Y	221	VAL	CA-CB	-5.89	1.47	1.54
1	5g	98	GLU	CA-CB	5.89	1.62	1.53
1	5p	68	MET	CA-CB	-5.89	1.44	1.53
1	5J	165	VAL	CA-CB	5.89	1.61	1.54
1	5Q	229	ARG	CD-NE	5.89	1.54	1.46
1	63	28	GLU	CA-CB	5.89	1.62	1.53
1	6d	219	GLN	N-CA	-5.89	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6v	184	TRP	NE1-CE2	-5.89	1.30	1.37
1	8d	184	TRP	N-CA	5.89	1.53	1.46
1	8L	199	LYS	N-CA	-5.89	1.39	1.46
1	8R	158	LYS	N-CA	-5.89	1.39	1.46
1	9v	154	ARG	N-CA	-5.89	1.39	1.45
1	a5	145	TYR	N-CA	-5.89	1.38	1.46
1	aL	136	LEU	CA-CB	5.89	1.62	1.53
1	aY	52	LEU	CA-C	-5.89	1.45	1.52
1	bi	63	GLN	C-O	-5.89	1.16	1.24
1	cH	195	ASN	CA-CB	5.89	1.62	1.53
1	cO	62	HIS	CA-CB	5.89	1.62	1.53
1	cU	20	LEU	CA-CB	5.89	1.62	1.53
1	dq	110	THR	C-N	5.89	1.41	1.33
1	dt	96	MET	C-N	5.89	1.42	1.33
1	dJ	224	PRO	N-CA	-5.89	1.39	1.47
1	dU	160	PRO	N-CD	-5.89	1.39	1.47
1	1o	183	ASN	C-N	5.89	1.41	1.33
1	e2	131	LYS	CA-CB	5.89	1.62	1.53
1	1q	221	VAL	CA-C	5.89	1.60	1.52
1	em	32	PHE	N-CA	5.89	1.53	1.46
1	eq	154	ARG	C-N	5.89	1.42	1.33
1	eU	13	GLN	C-N	5.89	1.41	1.33
1	fe	78	ALA	CA-C	5.89	1.60	1.52
1	fh	2	ILE	CA-C	-5.89	1.45	1.52
1	1z	19	THR	CA-C	-5.89	1.45	1.52
1	1	130	TYR	CA-C	5.89	1.60	1.52
1	Q	170	LYS	CA-C	5.89	1.60	1.52
1	1F	165	VAL	CA-C	5.89	1.60	1.52
1	hm	33	SER	CA-CB	5.89	1.61	1.53
1	hn	125	PRO	CA-C	5.89	1.60	1.52
1	ht	118	MET	C-N	5.89	1.42	1.33
1	hU	14	ALA	C-N	5.89	1.40	1.33
1	hU	137	GLY	N-CA	5.89	1.53	1.45
1	hV	112	GLN	CA-CB	5.89	1.62	1.53
1	1N	183	ASN	C-N	5.89	1.41	1.33
1	iL	131	LYS	N-CA	-5.89	1.39	1.46
1	j1	211	LEU	CA-C	-5.89	1.45	1.52
1	jh	49	PRO	N-CA	-5.89	1.39	1.47
1	jl	92	GLU	CA-CB	5.89	1.62	1.52
1	jo	143	ARG	CZ-NH2	-5.89	1.25	1.33
1	jQ	156	GLY	CA-C	5.89	1.60	1.51
1	k0	133	TRP	CZ2-CH2	5.89	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k1	229	ARG	C-N	5.89	1.41	1.33
1	k6	119	THR	C-N	-5.89	1.25	1.33
1	kZ	73	ILE	C-O	-5.89	1.16	1.24
1	ld	230	VAL	N-CA	5.89	1.53	1.46
1	li	22	ALA	CA-C	-5.89	1.45	1.52
1	lw	12	HIS	ND1-CE1	5.89	1.38	1.32
1	lP	30	LYS	CA-CB	5.89	1.63	1.53
1	2e	154	ARG	NE-CZ	-5.89	1.26	1.33
1	2o	82	ARG	C-N	5.89	1.41	1.33
1	35	37	ILE	CA-CB	-5.89	1.51	1.54
1	3y	62	HIS	CG-CD2	5.89	1.42	1.35
1	3N	77	ALA	N-CA	-5.89	1.38	1.46
1	3Q	146	SER	N-CA	5.89	1.52	1.46
1	3V	111	LEU	N-CA	5.89	1.53	1.46
1	4f	15	ILE	CA-CB	-5.89	1.48	1.54
1	4m	184	TRP	NE1-CE2	-5.89	1.30	1.37
1	4V	135	ILE	CA-C	-5.89	1.45	1.52
1	5k	68	MET	CA-CB	5.89	1.62	1.53
1	5l	138	LEU	CA-C	-5.89	1.44	1.52
1	5t	9	GLN	C-N	5.89	1.41	1.33
1	5S	40	PHE	CA-C	5.89	1.60	1.52
1	5Y	146	SER	CA-CB	5.89	1.60	1.53
1	69	191	VAL	N-CA	-5.89	1.39	1.46
1	6P	171	THR	C-O	-5.89	1.17	1.24
1	6V	124	ILE	CA-C	-5.89	1.47	1.52
1	71	130	TYR	C-N	5.89	1.41	1.33
1	7C	55	MET	CA-CB	5.89	1.62	1.53
1	8e	26	VAL	C-N	5.89	1.41	1.33
1	8h	50	GLN	C-O	-5.89	1.17	1.24
1	8Z	114	GLN	CA-C	-5.89	1.45	1.52
1	96	170	LYS	C-O	5.89	1.30	1.24
1	9y	15	ILE	CA-C	5.89	1.59	1.52
1	9G	62	HIS	CB-CG	5.89	1.58	1.50
1	9Z	12	HIS	ND1-CE1	5.89	1.38	1.32
1	ab	19	THR	CA-C	-5.89	1.45	1.52
1	aA	144	MET	CA-CB	5.89	1.62	1.53
1	aJ	13	GLN	CA-C	-5.89	1.45	1.52
1	bz	216	THR	C-N	5.89	1.41	1.33
1	c1	12	HIS	ND1-CE1	5.89	1.38	1.32
1	cj	4	GLN	C-N	5.89	1.41	1.33
1	cj	151	LEU	CA-C	5.89	1.60	1.52
1	cx	12	HIS	CG-CD2	5.89	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cP	108	THR	CA-CB	-5.89	1.45	1.54
1	d4	125	PRO	C-N	5.89	1.41	1.33
1	d6	204	ALA	C-N	5.89	1.41	1.33
1	dC	203	LYS	C-O	-5.89	1.17	1.24
1	dO	68	MET	C-O	-5.89	1.17	1.24
1	dW	84	HIS	ND1-CE1	5.89	1.38	1.32
1	e5	125	PRO	CA-C	-5.89	1.48	1.53
1	et	42	ALA	C-N	5.89	1.41	1.34
1	1r	73	ILE	CA-CB	-5.89	1.46	1.54
1	f6	5	ASN	CA-C	5.89	1.60	1.52
1	fe	50	GLN	N-CA	5.89	1.53	1.46
1	fs	12	HIS	CG-ND1	-5.89	1.31	1.38
1	fv	130	TYR	CA-C	5.89	1.60	1.52
1	fG	140	LYS	C-N	5.89	1.41	1.33
1	g4	215	MET	SD-CE	5.89	1.94	1.79
1	b	62	HIS	CA-C	5.89	1.60	1.53
1	k	10	MET	N-CA	5.89	1.53	1.46
1	m	57	ASN	N-CA	5.89	1.53	1.46
1	s	99	PRO	N-CA	-5.89	1.40	1.47
1	in	140	LYS	CA-C	-5.89	1.45	1.52
1	jt	223	GLY	C-N	-5.89	1.26	1.33
1	jw	216	THR	C-N	5.89	1.41	1.33
1	jL	140	LYS	C-N	5.89	1.41	1.33
1	jS	17	PRO	CA-CB	5.89	1.62	1.53
1	ka	63	GLN	C-O	5.89	1.31	1.24
1	kI	163	ASP	N-CA	5.89	1.53	1.46
1	ll	8	GLY	C-N	5.89	1.41	1.33
1	lO	23	TRP	N-CA	-5.89	1.39	1.46
1	2o	163	ASP	CA-CB	5.89	1.63	1.53
1	2F	102	SER	CA-CB	5.89	1.63	1.53
1	2P	152	ASP	C-N	5.89	1.40	1.34
1	2Z	89	GLY	CA-C	5.89	1.60	1.51
1	4h	120	HIS	CA-CB	5.89	1.63	1.53
1	4u	226	HIS	CE1-NE2	5.89	1.38	1.32
1	4G	156	GLY	CA-C	-5.89	1.43	1.51
1	5C	215	MET	CA-C	5.89	1.60	1.52
1	6j	56	LEU	CA-CB	5.89	1.62	1.53
1	6J	217	ALA	C-N	5.89	1.41	1.33
1	74	120	HIS	ND1-CE1	5.89	1.38	1.32
1	7w	11	VAL	C-O	-5.89	1.17	1.24
1	7A	28	GLU	CA-C	5.89	1.60	1.52
1	7J	125	PRO	C-N	5.89	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7M	147	PRO	C-N	5.89	1.41	1.33
1	7T	164	TYR	N-CA	-5.89	1.39	1.46
1	9z	227	LYS	N-CA	5.89	1.53	1.46
1	bL	179	GLN	CA-CB	5.89	1.62	1.53
1	da	62	HIS	ND1-CE1	5.89	1.38	1.32
1	1j	100	ARG	N-CA	5.89	1.52	1.45
1	e3	82	ARG	N-CA	5.89	1.53	1.46
1	ep	121	ASN	CA-C	5.89	1.58	1.52
1	eJ	176	GLN	CA-CB	5.89	1.61	1.53
1	eP	198	CYS	N-CA	5.89	1.53	1.46
1	eS	98	GLU	CA-C	5.89	1.60	1.53
1	gs	153	ILE	CA-CB	5.89	1.60	1.54
1	gD	79	GLU	CA-CB	5.89	1.62	1.53
1	gL	41	SER	N-CA	5.89	1.53	1.46
1	ht	71	GLU	N-CA	-5.89	1.39	1.46
1	hG	205	LEU	N-CA	5.89	1.53	1.46
1	ia	27	VAL	CA-C	5.89	1.60	1.52
1	im	146	SER	CA-CB	5.89	1.61	1.53
1	iw	9	GLN	CA-C	5.89	1.61	1.53
1	iA	40	PHE	C-N	5.89	1.41	1.33
1	iK	164	TYR	C-N	5.89	1.41	1.34
1	iV	162	ARG	CD-NE	5.89	1.54	1.46
1	j3	7	GLN	C-N	5.89	1.41	1.33
1	j5	113	GLU	CA-C	-5.89	1.45	1.52
1	j6	93	PRO	CA-C	5.89	1.59	1.52
1	jk	21	ASN	CA-CB	5.89	1.62	1.53
1	jn	3	VAL	CA-CB	-5.89	1.47	1.54
1	k2	37	ILE	C-O	-5.89	1.17	1.24
1	25	138	LEU	N-CA	-5.89	1.39	1.46
1	kY	90	PRO	C-N	5.89	1.41	1.33
1	2b	175	GLU	CA-CB	5.89	1.61	1.53
1	3e	176	GLN	CA-C	5.89	1.59	1.52
1	3Z	33	SER	CA-CB	5.89	1.62	1.53
1	4t	88	ALA	C-N	5.89	1.42	1.33
1	4v	155	GLN	CA-C	-5.89	1.45	1.52
1	4w	45	GLU	CA-C	5.89	1.60	1.52
1	58	99	PRO	N-CA	-5.89	1.39	1.47
1	5d	122	PRO	N-CA	-5.89	1.37	1.47
1	5q	159	GLU	N-CA	-5.89	1.37	1.45
1	5E	198	CYS	CA-CB	5.89	1.62	1.53
1	5H	157	PRO	N-CD	5.89	1.55	1.47
1	60	218	CYS	CA-CB	5.89	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6O	73	ILE	N-CA	-5.89	1.39	1.46
1	6W	203	LYS	CA-C	5.89	1.60	1.52
1	76	159	GLU	N-CA	5.89	1.53	1.45
1	7a	89	GLY	CA-C	-5.89	1.43	1.51
1	7n	19	THR	N-CA	5.89	1.53	1.46
1	7R	117	TRP	N-CA	5.89	1.53	1.46
1	85	134	ILE	N-CA	5.89	1.53	1.46
1	86	127	GLY	CA-C	5.89	1.58	1.52
1	8p	132	ARG	CA-CB	5.89	1.62	1.53
1	8x	205	LEU	CA-CB	5.89	1.62	1.53
1	8Y	91	ILE	C-N	5.89	1.42	1.33
1	93	42	ALA	C-N	5.89	1.42	1.33
1	9d	183	ASN	CA-CB	5.89	1.62	1.53
1	9s	12	HIS	CB-CG	5.89	1.58	1.50
1	au	230	VAL	CA-C	5.89	1.60	1.52
1	aC	136	LEU	CA-CB	5.89	1.62	1.53
1	c3	114	GLN	CA-C	5.89	1.60	1.52
1	1d	133	TRP	CA-CB	5.89	1.62	1.53
1	cj	114	GLN	CA-C	5.89	1.60	1.52
1	cu	138	LEU	N-CA	5.89	1.53	1.46
1	cC	74	ASN	CA-C	5.89	1.60	1.52
1	cT	62	HIS	CE1-NE2	5.89	1.38	1.32
1	cW	57	ASN	N-CA	5.89	1.53	1.46
1	cX	152	ASP	CA-CB	5.89	1.63	1.53
1	cX	167	ARG	CZ-NH2	-5.89	1.25	1.33
1	dr	66	MET	C-N	5.89	1.41	1.33
1	dw	190	LEU	CA-CB	5.89	1.62	1.53
1	dy	159	GLU	C-O	5.89	1.31	1.24
1	dG	37	ILE	CA-C	5.89	1.57	1.52
1	dN	15	ILE	CB-CG1	5.89	1.65	1.53
1	e0	3	VAL	N-CA	-5.89	1.39	1.46
1	e2	130	TYR	C-N	-5.89	1.26	1.33
1	ei	138	LEU	N-CA	5.89	1.53	1.46
1	es	139	ASN	CA-C	-5.89	1.44	1.52
1	eC	45	GLU	CA-C	-5.89	1.44	1.52
1	eD	67	GLN	CA-C	-5.89	1.45	1.52
1	eD	166	ASP	CA-CB	5.89	1.62	1.53
1	f5	226	HIS	CA-C	-5.89	1.45	1.52
1	fd	66	MET	N-CA	-5.89	1.39	1.46
1	fz	140	LYS	N-CA	-5.89	1.39	1.46
1	k	29	GLU	CA-C	-5.89	1.44	1.52
1	o	12	HIS	ND1-CE1	5.89	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	2	ILE	CA-CB	-5.89	1.47	1.54
1	gy	136	LEU	N-CA	5.89	1.53	1.46
1	hh	206	GLY	N-CA	5.89	1.52	1.44
1	i8	161	PHE	N-CA	-5.89	1.39	1.46
1	ih	229	ARG	C-N	5.89	1.40	1.33
1	ix	224	PRO	N-CD	-5.89	1.39	1.47
1	iL	92	GLU	CA-C	5.89	1.59	1.53
1	k3	63	GLN	CA-CB	5.89	1.63	1.53
1	k4	10	MET	CA-C	5.89	1.60	1.52
1	kw	202	LEU	CA-C	-5.89	1.45	1.52
1	kK	151	LEU	CA-C	-5.89	1.45	1.52
1	2Q	145	TYR	CA-C	5.89	1.60	1.52
1	3R	31	ALA	C-N	5.89	1.41	1.33
1	4M	57	ASN	CA-CB	5.89	1.62	1.53
1	51	230	VAL	C-O	-5.89	1.17	1.24
1	5n	34	PRO	N-CA	-5.89	1.39	1.47
1	5y	190	LEU	C-O	-5.89	1.17	1.24
1	6x	175	GLU	CA-CB	5.89	1.62	1.53
1	6P	154	ARG	CZ-NH2	-5.89	1.25	1.33
1	7E	160	PRO	CA-C	5.89	1.59	1.52
1	8j	43	LEU	CA-CB	5.89	1.62	1.53
1	92	93	PRO	CA-CB	-5.89	1.46	1.53
1	9b	66	MET	N-CA	5.89	1.53	1.46
1	9G	110	THR	N-CA	-5.89	1.38	1.45
1	aB	134	ILE	N-CA	-5.89	1.40	1.46
1	aW	160	PRO	CA-CB	-5.89	1.46	1.53
1	bA	191	VAL	CA-CB	-5.89	1.46	1.54
1	bC	126	VAL	C-N	5.89	1.40	1.33
1	d9	97	ARG	CD-NE	5.89	1.54	1.46
1	df	68	MET	CA-CB	5.89	1.62	1.53
1	dQ	193	ASN	N-CA	5.89	1.53	1.46
1	dU	24	VAL	C-O	5.89	1.31	1.24
1	dX	216	THR	N-CA	-5.89	1.39	1.46
1	eH	120	HIS	ND1-CE1	5.89	1.38	1.32
1	fS	18	ARG	CA-C	-5.89	1.45	1.52
1	fS	107	THR	N-CA	5.89	1.53	1.46
1	1A	32	PHE	N-CA	-5.89	1.39	1.46
1	L	41	SER	C-N	5.89	1.41	1.33
1	gd	11	VAL	CA-CB	-5.89	1.46	1.54
1	gd	98	GLU	CA-C	5.89	1.59	1.52
1	gg	26	VAL	CA-CB	-5.89	1.46	1.54
1	gr	109	SER	C-N	5.89	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1H	185	MET	N-CA	5.89	1.53	1.46
1	hE	2	ILE	C-O	-5.89	1.17	1.24
1	hS	33	SER	CA-C	-5.89	1.46	1.53
1	i3	96	MET	CA-C	-5.89	1.45	1.52
1	ip	151	LEU	N-CA	5.89	1.53	1.46
1	j0	177	ALA	C-N	5.89	1.41	1.33
1	j1	198	CYS	CA-C	-5.89	1.45	1.52
1	j2	65	ALA	C-O	-5.89	1.17	1.24
1	j7	153	ILE	C-O	-5.89	1.18	1.23
1	jR	188	THR	C-N	5.89	1.41	1.33
1	k4	187	GLU	CA-C	-5.89	1.45	1.52
1	kS	155	GLN	CA-C	-5.89	1.45	1.52
1	lf	10	MET	CA-CB	5.89	1.63	1.53
1	ln	30	LYS	C-N	5.89	1.40	1.33
1	32	74	ASN	CA-CB	5.89	1.62	1.53
1	38	125	PRO	C-N	5.89	1.41	1.34
1	3o	24	VAL	CA-CB	-5.89	1.46	1.54
1	3t	194	ALA	CA-C	-5.89	1.44	1.52
1	3S	54	THR	C-N	5.89	1.41	1.33
1	3Y	74	ASN	CA-CB	5.89	1.62	1.53
1	4t	10	MET	CA-C	5.89	1.60	1.52
1	4t	87	HIS	N-CA	5.89	1.53	1.46
1	4y	40	PHE	N-CA	-5.89	1.39	1.46
1	4B	75	GLU	CA-C	-5.89	1.45	1.52
1	4Z	215	MET	CA-CB	5.89	1.63	1.53
1	5Q	140	LYS	CA-C	-5.89	1.45	1.52
1	64	200	THR	C-O	-5.89	1.16	1.24
1	67	47	ALA	N-CA	-5.89	1.38	1.46
1	6g	130	TYR	CA-CB	5.89	1.62	1.53
1	6h	42	ALA	CA-C	5.89	1.60	1.52
1	6w	28	GLU	C-N	5.89	1.42	1.33
1	6D	25	LYS	CA-C	5.89	1.60	1.52
1	6K	118	MET	CA-C	5.89	1.60	1.52
1	7q	53	ASN	CA-C	-5.89	1.45	1.52
1	7u	1	PRO	N-CD	5.89	1.55	1.47
1	7x	217	ALA	CA-C	5.89	1.60	1.52
1	7X	19	THR	N-CA	5.89	1.53	1.46
1	8m	42	ALA	CA-C	5.89	1.60	1.52
1	8A	229	ARG	CD-NE	5.89	1.54	1.46
1	97	87	HIS	CA-CB	5.89	1.63	1.53
1	9f	186	THR	CA-C	5.89	1.60	1.52
1	9h	49	PRO	N-CD	-5.89	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9y	189	LEU	CA-CB	5.89	1.62	1.53
1	9T	116	GLY	N-CA	5.89	1.53	1.45
1	an	109	SER	N-CA	-5.89	1.38	1.45
1	aM	166	ASP	CA-CB	5.89	1.62	1.53
1	15	193	ASN	CA-CB	5.89	1.61	1.53
1	b6	35	GLU	CA-C	5.89	1.60	1.52
1	cJ	158	LYS	CA-C	5.89	1.61	1.52
1	1h	73	ILE	C-N	5.89	1.41	1.33
1	dv	33	SER	CA-C	5.89	1.57	1.52
1	dP	178	SER	CA-C	5.89	1.60	1.52
1	ex	224	PRO	CA-C	5.89	1.58	1.52
1	eV	161	PHE	CA-C	5.89	1.60	1.52
1	f3	139	ASN	CA-CB	5.89	1.62	1.53
1	fO	208	ALA	CA-CB	5.89	1.62	1.53
1	v	161	PHE	CA-CB	5.89	1.62	1.53
1	gc	140	LYS	C-N	5.88	1.41	1.33
1	gB	50	GLN	C-N	5.88	1.41	1.33
1	h3	172	LEU	CA-C	5.88	1.60	1.52
1	ha	229	ARG	CD-NE	5.88	1.54	1.46
1	i2	70	LYS	N-CA	-5.88	1.39	1.46
1	ie	23	TRP	C-N	5.88	1.41	1.33
1	1R	25	LYS	CA-C	-5.88	1.45	1.52
1	iI	64	ALA	N-CA	-5.88	1.39	1.46
1	iT	87	HIS	CA-CB	5.88	1.62	1.53
1	je	80	TRP	CA-C	5.88	1.60	1.52
1	jG	224	PRO	C-N	5.88	1.42	1.33
1	kr	95	GLN	CA-C	5.88	1.60	1.52
1	kw	62	HIS	CE1-NE2	5.88	1.38	1.32
1	28	157	PRO	N-CA	-5.88	1.40	1.47
1	lP	77	ALA	C-N	5.88	1.42	1.34
1	2j	162	ARG	CZ-NH2	-5.88	1.25	1.33
1	2W	21	ASN	C-N	5.88	1.41	1.33
1	31	80	TRP	N-CA	-5.88	1.39	1.46
1	3m	170	LYS	CA-CB	5.88	1.62	1.53
1	5E	165	VAL	C-O	-5.88	1.17	1.24
1	5P	184	TRP	CA-CB	5.88	1.62	1.53
1	6d	141	ILE	C-N	5.88	1.41	1.33
1	6h	94	GLY	CA-C	-5.88	1.43	1.51
1	6u	57	ASN	N-CA	-5.88	1.38	1.46
1	6A	87	HIS	CA-CB	5.88	1.63	1.53
1	6H	44	SER	CA-C	-5.88	1.44	1.52
1	73	186	THR	N-CA	5.88	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7e	161	PHE	C-N	5.88	1.41	1.33
1	7g	40	PHE	CA-CB	5.88	1.62	1.53
1	7r	166	ASP	CA-CB	5.88	1.62	1.53
1	7s	226	HIS	CD2-NE2	5.88	1.44	1.37
1	8V	56	LEU	CA-CB	5.88	1.62	1.53
1	94	67	GLN	CA-C	5.88	1.60	1.52
1	9v	96	MET	C-N	-5.88	1.25	1.33
1	9x	156	GLY	C-N	5.88	1.41	1.34
1	a6	88	ALA	CA-C	5.88	1.61	1.53
1	a7	97	ARG	CD-NE	5.88	1.54	1.46
1	aO	87	HIS	ND1-CE1	5.88	1.38	1.32
1	b8	90	PRO	CA-CB	-5.88	1.47	1.54
1	c6	219	GLN	C-N	5.88	1.39	1.33
1	ci	31	ALA	C-N	5.88	1.40	1.33
1	cn	206	GLY	N-CA	5.88	1.52	1.44
1	da	132	ARG	CD-NE	5.88	1.54	1.46
1	dm	58	THR	CB-OG1	-5.88	1.34	1.43
1	dK	62	HIS	ND1-CE1	5.88	1.38	1.32
1	1n	196	PRO	CA-C	5.88	1.61	1.52
1	ef	188	THR	CA-C	5.88	1.57	1.52
1	en	213	GLU	C-N	5.88	1.41	1.33
1	1r	167	ARG	CD-NE	5.88	1.54	1.46
1	fe	168	PHE	CA-C	-5.88	1.45	1.52
1	ff	164	TYR	CA-CB	5.88	1.62	1.53
1	g0	28	GLU	N-CA	-5.88	1.39	1.46
1	g6	162	ARG	CA-CB	5.88	1.62	1.53
1	O	121	ASN	CA-C	5.88	1.57	1.52
1	gw	17	PRO	C-O	-5.88	1.17	1.24
1	gB	210	THR	CA-C	-5.88	1.45	1.52
1	gV	160	PRO	N-CA	5.88	1.54	1.47
1	hi	163	ASP	C-N	5.88	1.41	1.33
1	hX	223	GLY	C-N	5.88	1.41	1.33
1	i2	126	VAL	N-CA	-5.88	1.39	1.46
1	im	117	TRP	N-CA	5.88	1.53	1.46
1	j2	198	CYS	C-N	5.88	1.41	1.34
1	jJ	216	THR	CA-C	5.88	1.60	1.52
1	lp	57	ASN	CA-CB	5.88	1.63	1.53
1	lH	29	GLU	CA-C	5.88	1.60	1.52
1	lQ	21	ASN	C-O	5.88	1.31	1.24
1	2r	115	ILE	CA-CB	5.88	1.60	1.54
1	2t	59	VAL	CA-C	5.88	1.59	1.52
1	2y	187	GLU	C-N	5.88	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2F	65	ALA	CA-C	5.88	1.60	1.52
1	3G	174	ALA	CA-CB	5.88	1.62	1.53
1	3S	78	ALA	N-CA	-5.88	1.38	1.46
1	4J	129	ILE	N-CA	-5.88	1.39	1.46
1	4M	84	HIS	CA-CB	5.88	1.62	1.53
1	4T	203	LYS	CA-CB	5.88	1.63	1.53
1	6s	155	GLN	C-N	5.88	1.42	1.33
1	6B	167	ARG	C-N	5.88	1.41	1.33
1	6K	226	HIS	CB-CG	5.88	1.58	1.50
1	86	51	ASP	CA-CB	5.88	1.62	1.53
1	88	92	GLU	CA-C	5.88	1.59	1.53
1	8A	187	GLU	N-CA	-5.88	1.39	1.46
1	8H	7	GLN	C-N	5.88	1.40	1.33
1	9X	105	ALA	C-N	5.88	1.41	1.33
1	ad	195	ASN	CA-C	5.88	1.59	1.53
1	aq	147	PRO	C-N	5.88	1.41	1.33
1	aZ	144	MET	N-CA	-5.88	1.39	1.46
1	b8	46	GLY	C-O	-5.88	1.20	1.24
1	bN	172	LEU	C-N	5.88	1.41	1.34
1	cD	87	HIS	CD2-NE2	5.88	1.44	1.37
1	cP	17	PRO	N-CA	-5.88	1.39	1.47
1	do	79	GLU	CA-C	5.88	1.60	1.52
1	do	84	HIS	C-O	-5.88	1.19	1.25
1	dI	213	GLU	CA-C	5.88	1.60	1.52
1	f3	201	ILE	CA-CB	5.88	1.61	1.54
1	fq	112	GLN	CA-C	5.88	1.60	1.52
1	fv	230	VAL	CA-CB	5.88	1.61	1.54
1	k	230	VAL	CA-C	5.88	1.60	1.52
1	p	221	VAL	CA-CB	-5.88	1.47	1.54
1	H	122	PRO	CA-CB	5.88	1.64	1.53
1	1D	163	ASP	C-N	5.88	1.41	1.33
1	gu	165	VAL	CA-CB	-5.88	1.47	1.54
1	gy	104	ILE	C-N	5.88	1.42	1.33
1	gA	19	THR	CA-C	-5.88	1.45	1.52
1	gR	100	ARG	CD-NE	5.88	1.54	1.46
1	gT	177	ALA	N-CA	-5.88	1.38	1.46
1	h1	97	ARG	CA-C	-5.88	1.45	1.52
1	hj	21	ASN	C-N	5.88	1.41	1.33
1	hr	223	GLY	C-N	-5.88	1.28	1.33
1	hS	154	ARG	N-CA	-5.88	1.38	1.45
1	i0	195	ASN	C-O	5.88	1.31	1.24
1	ik	169	TYR	C-O	-5.88	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iM	153	ILE	CA-CB	-5.88	1.47	1.53
1	iM	189	LEU	CA-CB	5.88	1.62	1.53
1	j0	73	ILE	CA-C	-5.88	1.45	1.52
1	j6	61	GLY	CA-C	-5.88	1.45	1.52
1	j8	178	SER	CA-C	-5.88	1.45	1.52
1	jy	3	VAL	CA-C	5.88	1.59	1.52
1	1Z	80	TRP	CA-CB	5.88	1.62	1.53
1	k7	38	PRO	CA-CB	5.88	1.62	1.53
1	kL	174	ALA	C-N	5.88	1.41	1.33
1	kT	132	ARG	CZ-NH1	-5.88	1.24	1.32
1	26	226	HIS	ND1-CE1	5.88	1.38	1.32
1	lj	49	PRO	CA-CB	5.88	1.62	1.53
1	2G	167	ARG	CD-NE	5.88	1.54	1.46
1	2W	125	PRO	CA-CB	-5.88	1.47	1.53
1	43	219	GLN	CA-C	-5.88	1.45	1.52
1	4i	208	ALA	CA-C	-5.88	1.43	1.52
1	4C	197	ASP	CA-CB	5.88	1.64	1.53
1	4N	55	MET	CA-CB	-5.88	1.44	1.53
1	56	202	LEU	C-N	5.88	1.42	1.33
1	5X	59	VAL	C-N	5.88	1.42	1.33
1	5Z	198	CYS	CA-CB	5.88	1.63	1.53
1	6s	156	GLY	CA-C	5.88	1.60	1.51
1	6S	146	SER	CA-C	-5.88	1.46	1.53
1	6V	84	HIS	CB-CG	5.88	1.58	1.50
1	6Z	80	TRP	C-N	5.88	1.41	1.34
1	7w	97	ARG	N-CA	-5.88	1.38	1.45
1	89	32	PHE	CA-CB	5.88	1.60	1.53
1	98	80	TRP	CA-CB	5.88	1.62	1.53
1	9c	128	GLU	CA-C	-5.88	1.44	1.52
1	9r	162	ARG	C-N	5.88	1.42	1.33
1	9P	40	PHE	CA-CB	5.88	1.62	1.53
1	9X	90	PRO	C-N	5.88	1.41	1.33
1	ag	69	LEU	CA-C	5.88	1.60	1.52
1	aq	66	MET	CA-CB	5.88	1.62	1.53
1	aA	84	HIS	CG-ND1	-5.88	1.31	1.38
1	aP	138	LEU	C-N	5.88	1.41	1.33
1	16	67	GLN	C-N	5.88	1.41	1.33
1	b9	14	ALA	CA-CB	5.88	1.62	1.53
1	b9	189	LEU	C-N	-5.88	1.26	1.33
1	bl	18	ARG	CD-NE	5.88	1.54	1.46
1	bE	204	ALA	CA-CB	5.88	1.63	1.53
1	bV	95	GLN	N-CA	-5.88	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c1	4	GLN	C-N	5.88	1.42	1.33
1	cq	164	TYR	CA-CB	5.88	1.62	1.53
1	cs	129	ILE	CA-CB	-5.88	1.47	1.54
1	dL	85	PRO	CA-CB	5.88	1.62	1.53
1	eh	204	ALA	C-O	-5.88	1.17	1.24
1	eE	229	ARG	CA-CB	5.88	1.62	1.53
1	eO	61	GLY	N-CA	5.88	1.53	1.45
1	eP	171	THR	CA-C	-5.88	1.44	1.52
1	eS	71	GLU	CA-CB	5.88	1.62	1.53
1	1u	122	PRO	N-CD	-5.88	1.39	1.47
1	fg	25	LYS	C-N	5.88	1.41	1.33
1	fl	212	GLU	C-O	-5.88	1.17	1.24
1	1	62	HIS	CG-ND1	5.88	1.44	1.38
1	u	19	THR	N-CA	5.88	1.53	1.46
1	J	81	ASP	N-CA	-5.88	1.39	1.46
1	X	158	LYS	CA-CB	5.88	1.63	1.53
1	gR	92	GLU	CA-CB	5.88	1.60	1.53
1	gT	125	PRO	N-CD	5.88	1.55	1.47
1	ht	143	ARG	N-CA	5.88	1.53	1.46
1	hM	197	ASP	N-CA	-5.88	1.38	1.46
1	iH	124	ILE	CA-C	5.88	1.59	1.52
1	j1	146	SER	CA-C	-5.88	1.46	1.53
1	jx	140	LYS	CA-C	5.88	1.60	1.52
1	kH	30	LYS	N-CA	-5.88	1.39	1.46
1	kR	104	ILE	C-N	5.88	1.42	1.33
1	lm	1	PRO	N-CA	5.88	1.55	1.47
1	3d	145	TYR	N-CA	-5.88	1.39	1.46
1	3L	86	VAL	CA-CB	5.88	1.62	1.54
1	3X	17	PRO	CA-CB	5.88	1.62	1.53
1	5C	189	LEU	C-N	5.88	1.41	1.33
1	5J	182	LYS	N-CA	-5.88	1.39	1.46
1	8C	205	LEU	CA-C	5.88	1.60	1.52
1	8H	27	VAL	C-N	5.88	1.41	1.33
1	9a	83	LEU	CA-C	5.88	1.60	1.52
1	9m	204	ALA	N-CA	5.88	1.53	1.46
1	9v	157	PRO	N-CA	5.88	1.54	1.47
1	ab	213	GLU	CA-C	-5.88	1.45	1.52
1	14	32	PHE	CA-C	-5.88	1.45	1.52
1	cr	100	ARG	CA-CB	5.88	1.62	1.53
1	cD	123	PRO	CA-C	5.88	1.59	1.52
1	dm	167	ARG	CD-NE	5.88	1.54	1.46
1	dv	14	ALA	C-N	-5.88	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dz	209	ALA	C-N	5.88	1.41	1.33
1	ea	55	MET	N-CA	-5.88	1.39	1.46
1	eo	162	ARG	CA-CB	5.88	1.62	1.53
1	eW	132	ARG	N-CA	-5.88	1.39	1.46
1	eX	185	MET	N-CA	5.88	1.53	1.46
1	fM	18	ARG	CA-C	-5.88	1.45	1.52
1	1z	163	ASP	CA-CB	5.88	1.63	1.53
1	fS	202	LEU	C-O	-5.88	1.17	1.24
1	fY	228	ALA	N-CA	-5.88	1.39	1.46
1	d	164	TYR	N-CA	-5.88	1.39	1.46
1	f	189	LEU	CA-C	5.88	1.60	1.52
1	F	49	PRO	C-N	5.88	1.41	1.33
1	U	97	ARG	CA-CB	5.88	1.63	1.53
1	gb	27	VAL	CA-C	-5.88	1.45	1.52
1	gc	10	MET	N-CA	5.88	1.53	1.46
1	ge	79	GLU	N-CA	-5.88	1.38	1.46
1	gl	95	GLN	N-CA	5.88	1.53	1.45
1	gu	62	HIS	ND1-CE1	-5.88	1.26	1.32
1	gF	131	LYS	CA-CB	5.88	1.62	1.53
1	gQ	134	ILE	CA-CB	-5.88	1.47	1.54
1	hk	182	LYS	CA-C	5.88	1.60	1.52
1	hv	133	TRP	C-O	5.88	1.30	1.24
1	if	188	THR	N-CA	5.88	1.53	1.46
1	is	123	PRO	C-N	5.88	1.40	1.33
1	iV	214	MET	CA-C	5.88	1.60	1.52
1	j7	3	VAL	C-O	-5.88	1.18	1.24
1	jF	80	TRP	N-CA	5.88	1.53	1.46
1	jO	70	LYS	CA-CB	5.88	1.62	1.53
1	kk	223	GLY	C-N	5.88	1.41	1.33
1	23	59	VAL	CA-CB	5.88	1.61	1.54
1	l0	162	ARG	CZ-NH1	-5.88	1.24	1.32
1	lh	117	TRP	NE1-CE2	-5.88	1.30	1.37
1	lz	86	VAL	CA-CB	-5.88	1.47	1.54
1	29	169	TYR	C-N	5.88	1.41	1.33
1	lI	8	GLY	CA-C	-5.88	1.45	1.51
1	2v	174	ALA	N-CA	-5.88	1.39	1.46
1	2w	162	ARG	NE-CZ	5.88	1.39	1.33
1	2H	52	LEU	CA-C	5.88	1.60	1.52
1	2I	177	ALA	CA-C	5.88	1.60	1.52
1	3u	198	CYS	N-CA	5.88	1.53	1.46
1	3M	67	GLN	CA-CB	5.88	1.62	1.53
1	4d	12	HIS	CD2-NE2	5.88	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4E	52	LEU	C-O	-5.88	1.17	1.24
1	4F	156	GLY	C-N	-5.88	1.28	1.33
1	4T	213	GLU	C-O	-5.88	1.17	1.24
1	5L	58	THR	C-N	5.88	1.39	1.33
1	64	124	ILE	CA-C	-5.88	1.47	1.52
1	6G	19	THR	CA-CB	5.88	1.63	1.53
1	6H	114	GLN	CA-C	5.88	1.60	1.52
1	6N	84	HIS	C-O	-5.88	1.17	1.24
1	7K	119	THR	CA-CB	5.88	1.63	1.53
1	87	93	PRO	N-CD	5.88	1.55	1.47
1	8r	87	HIS	CB-CG	5.88	1.58	1.50
1	8C	77	ALA	N-CA	-5.88	1.39	1.46
1	8R	27	VAL	CA-CB	-5.88	1.47	1.54
1	8U	85	PRO	C-N	5.88	1.41	1.33
1	9a	168	PHE	CA-CB	-5.88	1.44	1.53
1	aq	5	ASN	CA-C	5.88	1.60	1.52
1	13	154	ARG	CA-CB	5.88	1.64	1.53
1	b7	82	ARG	N-CA	-5.88	1.38	1.46
1	bh	133	TRP	CD2-CE3	5.88	1.49	1.40
1	17	176	GLN	N-CA	-5.88	1.38	1.46
1	bn	167	ARG	C-N	5.88	1.41	1.33
1	d0	167	ARG	CA-CB	5.88	1.62	1.53
1	dj	59	VAL	CA-CB	5.88	1.60	1.53
1	dJ	105	ALA	CA-C	5.88	1.61	1.52
1	dX	29	GLU	CA-C	-5.88	1.45	1.52
1	e0	178	SER	CA-CB	5.88	1.63	1.53
1	ea	142	VAL	CA-CB	-5.88	1.47	1.54
1	em	195	ASN	CA-C	5.88	1.59	1.53
1	eq	153	ILE	CA-CB	-5.88	1.47	1.54
1	er	229	ARG	CA-C	-5.88	1.45	1.52
1	ey	11	VAL	N-CA	5.88	1.52	1.46
1	eH	123	PRO	CA-CB	-5.88	1.45	1.53
1	f8	132	ARG	N-CA	-5.88	1.39	1.46
1	fe	55	MET	N-CA	-5.88	1.39	1.46
1	fr	206	GLY	CA-C	-5.88	1.43	1.51
1	fO	205	LEU	CA-C	5.88	1.60	1.52
1	1A	97	ARG	CA-C	5.88	1.59	1.52
1	b	84	HIS	ND1-CE1	5.88	1.38	1.32
1	m	173	ARG	CA-CB	5.88	1.62	1.53
1	B	172	LEU	CA-C	5.88	1.60	1.52
1	M	123	PRO	N-CD	5.88	1.55	1.47
1	5	21	ASN	CA-CB	5.88	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gt	99	PRO	N-CA	-5.88	1.40	1.47
1	gK	47	ALA	CA-C	-5.88	1.44	1.52
1	hB	105	ALA	C-N	5.88	1.42	1.33
1	ir	112	GLN	CA-C	5.88	1.60	1.52
1	j7	28	GLU	CA-C	-5.88	1.45	1.52
1	j8	10	MET	C-O	5.88	1.31	1.23
1	jl	124	ILE	CA-CB	-5.88	1.47	1.54
1	ju	34	PRO	C-N	5.88	1.42	1.33
1	jw	12	HIS	CE1-NE2	5.88	1.38	1.32
1	jS	12	HIS	ND1-CE1	5.88	1.38	1.32
1	jY	12	HIS	CD2-NE2	5.88	1.44	1.37
1	kf	30	LYS	CA-CB	5.88	1.63	1.53
1	kU	159	GLU	CA-C	-5.88	1.46	1.52
1	l3	118	MET	CA-C	-5.88	1.44	1.52
1	l5	49	PRO	N-CA	-5.88	1.39	1.47
1	l5	220	GLY	N-CA	5.88	1.51	1.45
1	l9	199	LYS	CA-CB	5.88	1.62	1.53
1	27	169	TYR	CA-CB	5.88	1.62	1.53
1	lA	74	ASN	CA-C	5.88	1.60	1.52
1	2H	108	THR	C-N	5.88	1.41	1.33
1	2S	176	GLN	CA-C	5.88	1.60	1.52
1	2Y	154	ARG	CA-C	5.88	1.59	1.52
1	3u	109	SER	N-CA	5.88	1.52	1.45
1	3C	111	LEU	CA-CB	5.88	1.62	1.53
1	4m	13	GLN	C-N	5.88	1.41	1.33
1	4t	131	LYS	CA-C	-5.88	1.45	1.52
1	4J	18	ARG	CD-NE	5.88	1.54	1.46
1	4R	230	VAL	N-CA	-5.88	1.39	1.46
1	58	3	VAL	CA-CB	-5.88	1.47	1.54
1	5b	62	HIS	CE1-NE2	5.88	1.38	1.32
1	5J	82	ARG	CD-NE	5.88	1.54	1.46
1	5W	2	ILE	CB-CG1	5.88	1.65	1.53
1	60	110	THR	CA-C	5.88	1.61	1.53
1	68	17	PRO	CA-CB	5.88	1.62	1.53
1	6i	172	LEU	N-CA	5.88	1.53	1.46
1	6W	192	GLN	CA-CB	5.88	1.62	1.53
1	7A	87	HIS	CG-ND1	5.88	1.44	1.38
1	7G	74	ASN	CA-CB	5.88	1.62	1.53
1	7O	118	MET	CA-C	5.88	1.60	1.52
1	7S	93	PRO	CA-CB	5.88	1.61	1.53
1	7U	120	HIS	N-CA	-5.88	1.38	1.45
1	8l	128	GLU	CA-CB	5.88	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8r	18	ARG	NE-CZ	5.88	1.39	1.33
1	8t	31	ALA	C-O	-5.88	1.17	1.24
1	8C	72	THR	CA-C	-5.88	1.45	1.52
1	aN	150	ILE	CB-CG1	5.88	1.65	1.53
1	cq	219	GLN	CA-C	5.88	1.60	1.52
1	cB	183	ASN	CA-C	-5.88	1.45	1.52
1	dx	2	ILE	CA-C	5.88	1.59	1.52
1	e7	111	LEU	C-N	5.88	1.41	1.33
1	eh	51	ASP	C-N	5.88	1.41	1.33
1	fC	12	HIS	C-O	-5.88	1.16	1.24
1	fI	142	VAL	CA-C	5.88	1.59	1.52
1	fN	1	PRO	N-CD	5.88	1.55	1.47
1	x	92	GLU	CA-CB	5.88	1.60	1.53
1	C	142	VAL	C-N	5.88	1.42	1.33
1	S	180	GLU	N-CA	5.88	1.53	1.46
1	gC	187	GLU	CA-CB	5.88	1.62	1.53
1	h0	103	ASP	CA-C	-5.88	1.45	1.52
1	hy	29	GLU	CA-C	-5.88	1.45	1.52
1	1P	10	MET	C-N	5.88	1.41	1.33
1	1T	16	SER	N-CA	5.88	1.54	1.45
1	kz	76	GLU	CA-CB	5.88	1.62	1.53
1	lC	22	ALA	C-N	5.88	1.41	1.33
1	lR	29	GLU	CA-CB	5.88	1.62	1.53
1	lR	143	ARG	C-N	-5.88	1.26	1.33
1	3v	110	THR	CA-CB	5.88	1.63	1.53
1	4f	62	HIS	CD2-NE2	-5.88	1.31	1.37
1	4X	88	ALA	N-CA	-5.88	1.38	1.46
1	5G	226	HIS	CE1-NE2	5.88	1.38	1.32
1	6d	102	SER	C-N	-5.88	1.24	1.33
1	6s	84	HIS	N-CA	-5.88	1.40	1.46
1	6x	201	ILE	CA-CB	5.88	1.62	1.54
1	79	133	TRP	CZ2-CH2	5.88	1.48	1.37
1	8G	152	ASP	C-N	5.88	1.40	1.33
1	93	173	ARG	CZ-NH2	-5.88	1.25	1.33
1	9a	3	VAL	N-CA	-5.88	1.40	1.46
1	9G	209	ALA	C-O	5.88	1.31	1.23
1	9H	120	HIS	CD2-NE2	5.88	1.44	1.37
1	9J	178	SER	CA-C	5.88	1.60	1.52
1	aN	104	ILE	CA-C	-5.88	1.45	1.52
1	17	143	ARG	CA-C	-5.88	1.45	1.52
1	bQ	227	LYS	N-CA	-5.88	1.38	1.46
1	bW	137	GLY	CA-C	-5.88	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ce	3	VAL	N-CA	-5.88	1.39	1.46
1	cQ	124	ILE	CA-C	-5.88	1.48	1.53
1	d2	167	ARG	CA-CB	5.88	1.62	1.53
1	dB	41	SER	CA-CB	5.88	1.62	1.53
1	dF	112	GLN	CA-C	-5.88	1.45	1.52
1	eA	49	PRO	C-N	5.88	1.42	1.33
1	eN	68	MET	CA-C	-5.88	1.45	1.52
1	h	144	MET	CA-CB	5.88	1.62	1.53
1	g8	84	HIS	CA-C	-5.87	1.45	1.52
1	gd	64	ALA	CA-C	5.87	1.60	1.52
1	gq	204	ALA	CA-C	5.87	1.60	1.52
1	gH	62	HIS	CE1-NE2	5.87	1.38	1.32
1	gN	92	GLU	CA-CB	5.87	1.61	1.53
1	gZ	41	SER	N-CA	5.87	1.53	1.46
1	hh	36	VAL	CA-CB	5.87	1.61	1.54
1	hi	48	THR	C-O	-5.87	1.19	1.24
1	hi	124	ILE	N-CA	-5.87	1.41	1.46
1	hJ	117	TRP	CA-CB	5.87	1.62	1.53
1	iG	3	VAL	C-N	5.87	1.42	1.33
1	iH	138	LEU	N-CA	5.87	1.53	1.46
1	j2	16	SER	CA-C	5.87	1.60	1.53
1	jh	157	PRO	C-N	5.87	1.41	1.33
1	jn	167	ARG	CD-NE	5.87	1.54	1.46
1	kh	104	ILE	N-CA	5.87	1.53	1.46
1	km	192	GLN	N-CA	-5.87	1.39	1.46
1	kx	135	ILE	C-N	5.87	1.41	1.33
1	l8	218	CYS	C-N	5.87	1.41	1.33
1	ld	97	ARG	CD-NE	5.87	1.54	1.46
1	lk	214	MET	CA-C	-5.87	1.45	1.52
1	lO	69	LEU	CA-C	-5.87	1.45	1.52
1	lQ	121	ASN	CA-CB	5.87	1.62	1.53
1	2h	182	LYS	CA-CB	5.87	1.62	1.53
1	2i	30	LYS	CA-C	5.87	1.60	1.52
1	2o	167	ARG	CA-C	5.87	1.60	1.52
1	2G	23	TRP	CA-CB	5.87	1.62	1.53
1	2G	132	ARG	CD-NE	5.87	1.54	1.46
1	2Q	82	ARG	CZ-NH1	-5.87	1.24	1.32
1	3l	200	THR	CA-C	5.87	1.60	1.52
1	3o	48	THR	CA-CB	5.87	1.62	1.53
1	3v	51	ASP	CA-CB	5.87	1.62	1.53
1	3J	85	PRO	CA-CB	5.87	1.62	1.53
1	42	69	LEU	CA-CB	5.87	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5c	54	THR	CA-CB	-5.87	1.44	1.53
1	5z	41	SER	N-CA	-5.87	1.39	1.46
1	5B	183	ASN	CA-CB	5.87	1.62	1.53
1	62	206	GLY	CA-C	5.87	1.60	1.51
1	6k	220	GLY	C-N	5.87	1.41	1.33
1	6s	173	ARG	CD-NE	5.87	1.54	1.46
1	6y	147	PRO	C-N	5.87	1.42	1.33
1	6I	33	SER	N-CA	5.87	1.51	1.46
1	6W	120	HIS	CG-CD2	5.87	1.42	1.35
1	73	119	THR	N-CA	5.87	1.53	1.46
1	7N	194	ALA	CA-CB	5.87	1.62	1.53
1	7V	144	MET	SD-CE	5.87	1.94	1.79
1	8n	83	LEU	CA-C	5.87	1.60	1.52
1	9u	229	ARG	CA-CB	5.87	1.62	1.53
1	9H	50	GLN	N-CA	-5.87	1.39	1.46
1	9R	121	ASN	CA-CB	5.87	1.62	1.53
1	9V	129	ILE	CA-C	5.87	1.60	1.52
1	bs	14	ALA	CA-C	5.87	1.60	1.52
1	bA	111	LEU	C-O	-5.87	1.17	1.24
1	bG	75	GLU	CA-C	5.87	1.60	1.52
1	bJ	67	GLN	CA-CB	5.87	1.62	1.53
1	c9	3	VAL	N-CA	5.87	1.52	1.46
1	cQ	67	GLN	CA-CB	5.87	1.62	1.53
1	cV	143	ARG	C-N	5.87	1.42	1.33
1	d2	128	GLU	CA-C	5.87	1.60	1.52
1	dp	84	HIS	CG-ND1	5.87	1.44	1.38
1	dy	105	ALA	CA-C	5.87	1.60	1.52
1	1q	62	HIS	CA-C	5.87	1.60	1.52
1	ew	132	ARG	CD-NE	5.87	1.54	1.46
1	eB	119	THR	CA-C	-5.87	1.44	1.52
1	eY	58	THR	N-CA	-5.87	1.39	1.46
1	f1	149	SER	CA-CB	5.87	1.62	1.53
1	f8	155	GLN	CA-C	-5.87	1.45	1.52
1	fG	115	ILE	C-O	-5.87	1.17	1.24
1	g0	51	ASP	CA-C	5.87	1.60	1.52
1	1B	8	GLY	N-CA	5.87	1.53	1.45
1	R	226	HIS	CE1-NE2	-5.87	1.26	1.32
1	g9	42	ALA	CA-CB	5.87	1.62	1.53
1	ge	69	LEU	CA-CB	5.87	1.62	1.53
1	gh	150	ILE	CA-CB	5.87	1.61	1.54
1	gE	218	CYS	CA-CB	5.87	1.62	1.53
1	hc	6	LEU	CA-C	5.87	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hn	129	ILE	CA-C	5.87	1.59	1.52
1	hV	75	GLU	CA-CB	5.87	1.62	1.53
1	iw	102	SER	CA-C	-5.87	1.45	1.52
1	ja	121	ASN	N-CA	5.87	1.55	1.46
1	jm	226	HIS	ND1-CE1	5.87	1.38	1.32
1	js	131	LYS	CA-CB	5.87	1.62	1.53
1	jS	74	ASN	CA-CB	5.87	1.62	1.53
1	k2	155	GLN	CA-CB	5.87	1.61	1.53
1	ka	225	GLY	N-CA	5.87	1.53	1.45
1	kb	123	PRO	C-N	5.87	1.38	1.33
1	ki	90	PRO	CA-C	5.87	1.60	1.52
1	kJ	55	MET	CA-CB	5.87	1.62	1.53
1	la	199	LYS	C-N	5.87	1.41	1.34
1	lb	177	ALA	CA-CB	5.87	1.63	1.53
1	lc	14	ALA	CA-C	5.87	1.60	1.52
1	lg	215	MET	C-N	5.87	1.42	1.33
1	29	137	GLY	CA-C	-5.87	1.44	1.51
1	2y	70	LYS	N-CA	-5.87	1.39	1.46
1	2Z	165	VAL	C-N	5.87	1.41	1.33
1	31	80	TRP	CA-C	-5.87	1.45	1.52
1	33	113	GLU	C-N	5.87	1.41	1.33
1	37	129	ILE	N-CA	5.87	1.53	1.46
1	3z	18	ARG	CA-CB	5.87	1.63	1.53
1	3S	32	PHE	CA-C	-5.87	1.45	1.52
1	4F	83	LEU	N-CA	5.87	1.53	1.46
1	4O	32	PHE	CA-CB	5.87	1.60	1.52
1	4U	133	TRP	N-CA	-5.87	1.39	1.46
1	4Y	124	ILE	CA-C	5.87	1.57	1.53
1	5s	86	VAL	CA-C	-5.87	1.45	1.52
1	5v	226	HIS	ND1-CE1	5.87	1.38	1.32
1	5y	87	HIS	ND1-CE1	5.87	1.38	1.32
1	6n	61	GLY	N-CA	5.87	1.50	1.44
1	6o	198	CYS	N-CA	-5.87	1.39	1.46
1	7x	221	VAL	CA-CB	-5.87	1.47	1.54
1	8P	84	HIS	CD2-NE2	5.87	1.44	1.37
1	8X	204	ALA	N-CA	5.87	1.53	1.46
1	9i	153	ILE	C-N	5.87	1.41	1.33
1	9s	145	TYR	N-CA	-5.87	1.40	1.46
1	9D	181	VAL	C-N	5.87	1.41	1.33
1	9F	53	ASN	C-N	5.87	1.41	1.33
1	al	121	ASN	CA-CB	5.87	1.62	1.53
1	aG	41	SER	N-CA	-5.87	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aV	22	ALA	CA-C	5.87	1.60	1.52
1	bg	88	ALA	N-CA	-5.87	1.39	1.46
1	bo	29	GLU	CA-CB	5.87	1.62	1.53
1	bz	209	ALA	CA-CB	5.87	1.62	1.53
1	bI	45	GLU	CA-C	5.87	1.60	1.52
1	bX	113	GLU	CA-CB	5.87	1.62	1.53
1	cc	129	ILE	N-CA	-5.87	1.39	1.46
1	cR	156	GLY	CA-C	5.87	1.60	1.51
1	d5	230	VAL	CA-CB	-5.87	1.46	1.54
1	dj	62	HIS	CE1-NE2	5.87	1.38	1.32
1	1k	33	SER	CA-CB	5.87	1.62	1.53
1	dC	127	GLY	CA-C	-5.87	1.45	1.52
1	eb	98	GLU	CA-C	-5.87	1.46	1.53
1	ej	85	PRO	C-O	-5.87	1.16	1.24
1	eL	103	ASP	C-N	5.87	1.41	1.33
1	f5	5	ASN	C-N	5.87	1.41	1.33
1	fs	4	GLN	CA-C	-5.87	1.45	1.52
1	fs	20	LEU	C-N	5.87	1.41	1.33
1	fV	36	VAL	CA-CB	5.87	1.61	1.54
1	g3	109	SER	C-N	5.87	1.41	1.33
1	g4	31	ALA	N-CA	5.87	1.53	1.46
1	v	132	ARG	CA-C	-5.87	1.45	1.52
1	gi	2	ILE	N-CA	-5.87	1.39	1.46
1	gH	40	PHE	CA-CB	5.87	1.62	1.53
1	gI	2	ILE	CA-CB	5.87	1.60	1.53
1	gK	191	VAL	CA-CB	-5.87	1.46	1.54
1	gU	49	PRO	C-N	5.87	1.41	1.33
1	1K	209	ALA	CA-CB	5.87	1.62	1.53
1	hS	187	GLU	N-CA	5.87	1.53	1.46
1	iO	62	HIS	CE1-NE2	5.87	1.38	1.32
1	jm	116	GLY	C-N	-5.87	1.26	1.33
1	jP	189	LEU	N-CA	-5.87	1.39	1.46
1	k0	82	ARG	CA-CB	5.87	1.62	1.53
1	20	221	VAL	N-CA	5.87	1.53	1.46
1	22	37	ILE	C-N	5.87	1.42	1.34
1	kF	12	HIS	ND1-CE1	5.87	1.38	1.32
1	lx	113	GLU	CA-C	-5.87	1.45	1.52
1	2c	180	GLU	CA-CB	5.87	1.62	1.53
1	2w	20	LEU	CA-CB	5.87	1.62	1.53
1	2D	84	HIS	CA-CB	5.87	1.59	1.53
1	3a	206	GLY	CA-C	5.87	1.60	1.51
1	3z	178	SER	C-N	5.87	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3Q	17	PRO	N-CD	-5.87	1.39	1.47
1	3S	70	LYS	N-CA	5.87	1.53	1.46
1	3Y	29	GLU	N-CA	-5.87	1.39	1.46
1	5p	62	HIS	CB-CG	5.87	1.58	1.50
1	5A	18	ARG	N-CA	5.87	1.53	1.46
1	7m	184	TRP	N-CA	-5.87	1.39	1.46
1	7p	142	VAL	CA-CB	-5.87	1.47	1.54
1	7x	55	MET	CA-CB	5.87	1.62	1.53
1	85	84	HIS	ND1-CE1	5.87	1.38	1.32
1	86	216	THR	N-CA	5.87	1.53	1.46
1	8y	39	MET	C-N	-5.87	1.26	1.33
1	b6	132	ARG	CZ-NH2	-5.87	1.25	1.33
1	bL	173	ARG	CD-NE	5.87	1.54	1.46
1	bU	145	TYR	CA-C	5.87	1.60	1.52
1	cr	152	ASP	N-CA	-5.87	1.39	1.46
1	ct	167	ARG	CA-CB	5.87	1.62	1.53
1	ct	212	GLU	CA-C	5.87	1.60	1.52
1	cL	20	LEU	CA-CB	5.87	1.62	1.53
1	de	182	LYS	CA-C	-5.87	1.45	1.52
1	dk	122	PRO	CA-CB	5.87	1.64	1.53
1	dU	17	PRO	CA-C	5.87	1.60	1.52
1	e6	136	LEU	C-N	5.87	1.41	1.33
1	ec	187	GLU	CA-C	5.87	1.60	1.52
1	eH	200	THR	CA-CB	5.87	1.62	1.53
1	h	50	GLN	C-N	5.87	1.41	1.33
1	2	21	ASN	CA-C	-5.87	1.45	1.52
1	hq	164	TYR	CA-CB	5.87	1.62	1.53
1	hV	57	ASN	CA-CB	5.87	1.63	1.53
1	ic	224	PRO	CA-CB	5.87	1.62	1.53
1	ii	208	ALA	CA-C	-5.87	1.46	1.53
1	ix	196	PRO	N-CA	5.87	1.54	1.47
1	iL	23	TRP	C-N	5.87	1.41	1.33
1	jT	205	LEU	CA-C	5.87	1.60	1.52
1	k4	228	ALA	CA-CB	5.87	1.62	1.53
1	20	62	HIS	CG-ND1	5.87	1.44	1.38
1	20	183	ASN	C-N	5.87	1.41	1.33
1	l0	107	THR	N-CA	-5.87	1.38	1.46
1	l9	218	CYS	CA-C	5.87	1.60	1.53
1	2F	105	ALA	C-N	5.87	1.41	1.33
1	2R	100	ARG	CA-C	-5.87	1.45	1.53
1	35	66	MET	C-O	-5.87	1.17	1.24
1	3j	222	GLY	N-CA	5.87	1.52	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3q	60	GLY	CA-C	-5.87	1.43	1.51
1	4n	11	VAL	C-N	5.87	1.41	1.33
1	4s	80	TRP	CA-CB	5.87	1.62	1.53
1	4z	181	VAL	N-CA	5.87	1.53	1.46
1	56	209	ALA	C-N	5.87	1.41	1.33
1	5a	180	GLU	CA-CB	5.87	1.62	1.53
1	5o	18	ARG	N-CA	5.87	1.53	1.46
1	5X	101	GLY	CA-C	-5.87	1.45	1.52
1	6F	138	LEU	CA-C	5.87	1.60	1.52
1	6S	114	GLN	C-O	-5.87	1.17	1.24
1	6V	160	PRO	CA-C	5.87	1.60	1.52
1	7U	32	PHE	CA-CB	5.87	1.60	1.52
1	7W	57	ASN	CA-CB	5.87	1.64	1.53
1	87	223	GLY	C-N	-5.87	1.26	1.33
1	8v	11	VAL	CA-C	-5.87	1.45	1.52
1	8A	3	VAL	CA-CB	-5.87	1.45	1.54
1	8C	179	GLN	N-CA	-5.87	1.39	1.46
1	8Y	115	ILE	N-CA	5.87	1.53	1.46
1	92	103	ASP	C-N	5.87	1.41	1.34
1	9h	225	GLY	CA-C	5.87	1.57	1.51
1	9m	173	ARG	CA-C	-5.87	1.44	1.52
1	9B	176	GLN	CA-CB	5.87	1.62	1.53
1	9F	172	LEU	CA-C	5.87	1.60	1.52
1	a8	199	LYS	CA-CB	5.87	1.62	1.53
1	an	229	ARG	CA-C	5.87	1.60	1.52
1	15	62	HIS	CA-C	5.87	1.60	1.53
1	bv	120	HIS	C-N	5.87	1.38	1.33
1	bw	216	THR	CA-C	5.87	1.60	1.52
1	bx	107	THR	CB-OG1	-5.87	1.34	1.43
1	bE	30	LYS	N-CA	-5.87	1.38	1.46
1	bX	143	ARG	CD-NE	5.87	1.54	1.46
1	cf	229	ARG	CZ-NH1	-5.87	1.24	1.32
1	cp	229	ARG	CA-CB	5.87	1.62	1.53
1	cE	156	GLY	C-N	-5.87	1.26	1.34
1	cV	182	LYS	CA-C	-5.87	1.45	1.52
1	cW	27	VAL	CA-CB	-5.87	1.47	1.54
1	cY	62	HIS	CG-ND1	-5.87	1.31	1.38
1	dn	167	ARG	N-CA	5.87	1.53	1.46
1	dL	86	VAL	CA-C	-5.87	1.46	1.52
1	eM	117	TRP	N-CA	-5.87	1.39	1.46
1	eO	141	ILE	CA-CB	-5.87	1.47	1.54
1	f8	71	GLU	N-CA	-5.87	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fc	126	VAL	CA-C	5.87	1.60	1.52
1	fe	206	GLY	N-CA	5.87	1.52	1.44
1	fE	44	SER	CA-C	5.87	1.60	1.52
1	y	186	THR	N-CA	5.87	1.53	1.46
1	3	30	LYS	C-N	5.87	1.41	1.34
1	hS	31	ALA	C-N	5.87	1.42	1.33
1	i1	124	ILE	CA-CB	-5.87	1.46	1.54
1	i3	137	GLY	CA-C	-5.87	1.45	1.52
1	1P	143	ARG	NE-CZ	5.87	1.39	1.33
1	j2	221	VAL	CA-CB	5.87	1.60	1.54
1	jo	185	MET	CA-CB	5.87	1.62	1.53
1	1Z	185	MET	CA-CB	5.87	1.62	1.53
1	l9	143	ARG	CZ-NH2	-5.87	1.25	1.33
1	3e	37	ILE	CA-CB	-5.87	1.51	1.54
1	3E	89	GLY	C-N	5.87	1.41	1.33
1	4O	121	ASN	C-O	5.87	1.31	1.24
1	4P	75	GLU	CA-C	-5.87	1.45	1.52
1	5D	83	LEU	CA-C	5.87	1.60	1.52
1	5T	62	HIS	CB-CG	5.87	1.58	1.50
1	6L	67	GLN	CA-CB	5.87	1.62	1.53
1	6W	194	ALA	CA-CB	5.87	1.63	1.53
1	7m	84	HIS	ND1-CE1	5.87	1.38	1.32
1	7B	129	ILE	C-N	5.87	1.41	1.33
1	7E	28	GLU	C-N	5.87	1.41	1.33
1	9B	92	GLU	N-CA	-5.87	1.41	1.46
1	ae	226	HIS	CD2-NE2	5.87	1.44	1.37
1	aj	230	VAL	C-N	5.87	1.41	1.33
1	b0	84	HIS	CG-ND1	5.87	1.44	1.38
1	b0	229	ARG	C-N	5.87	1.39	1.33
1	bo	113	GLU	N-CA	-5.87	1.39	1.46
1	1a	109	SER	N-CA	5.87	1.52	1.46
1	cT	173	ARG	CA-CB	5.87	1.62	1.53
1	dl	49	PRO	CA-C	5.87	1.60	1.52
1	dY	177	ALA	C-N	5.87	1.41	1.33
1	e1	143	ARG	CA-C	5.87	1.60	1.52
1	1p	37	ILE	C-O	5.87	1.29	1.24
1	eB	52	LEU	C-O	-5.87	1.17	1.24
1	gV	221	VAL	C-N	5.87	1.40	1.33
1	gY	62	HIS	CA-CB	5.87	1.62	1.53
1	h5	120	HIS	CE1-NE2	-5.87	1.26	1.32
1	hg	117	TRP	NE1-CE2	5.87	1.44	1.37
1	hX	91	ILE	CA-CB	-5.87	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hX	230	VAL	CA-C	-5.87	1.45	1.52
1	i9	133	TRP	NE1-CE2	-5.87	1.30	1.37
1	1S	198	CYS	CA-CB	5.87	1.63	1.53
1	j3	211	LEU	C-O	-5.87	1.17	1.24
1	jo	226	HIS	CA-CB	5.87	1.61	1.53
1	jG	165	VAL	C-N	5.87	1.41	1.33
1	jM	17	PRO	C-N	5.87	1.41	1.33
1	20	86	VAL	CA-C	5.87	1.60	1.52
1	kd	22	ALA	CA-C	5.87	1.60	1.52
1	kA	122	PRO	C-N	5.87	1.41	1.33
1	kL	48	THR	CB-OG1	5.87	1.53	1.43
1	l3	69	LEU	C-N	5.87	1.41	1.33
1	la	195	ASN	CA-CB	5.87	1.62	1.53
1	lq	184	TRP	C-N	5.87	1.41	1.33
1	2I	48	THR	CA-CB	-5.87	1.44	1.53
1	33	148	THR	CA-C	-5.87	1.45	1.52
1	3g	199	LYS	N-CA	-5.87	1.39	1.46
1	3y	113	GLU	C-N	5.87	1.41	1.33
1	3V	71	GLU	N-CA	-5.87	1.39	1.46
1	4f	115	ILE	CA-C	-5.87	1.44	1.52
1	4i	74	ASN	C-N	5.87	1.42	1.34
1	4H	199	LYS	C-N	5.87	1.41	1.33
1	4I	107	THR	CA-C	-5.87	1.46	1.52
1	50	23	TRP	N-CA	5.87	1.53	1.46
1	5u	201	ILE	CA-C	5.87	1.60	1.52
1	5v	53	ASN	CA-CB	5.87	1.62	1.53
1	5K	212	GLU	N-CA	-5.87	1.39	1.46
1	6t	161	PHE	N-CA	5.87	1.53	1.46
1	7R	34	PRO	CA-C	5.87	1.63	1.52
1	83	36	VAL	CA-C	-5.87	1.44	1.52
1	92	33	SER	C-N	-5.87	1.28	1.34
1	9a	12	HIS	ND1-CE1	5.87	1.38	1.32
1	9E	87	HIS	C-N	5.87	1.41	1.33
1	9K	87	HIS	ND1-CE1	5.87	1.38	1.32
1	a3	183	ASN	CA-CB	5.87	1.62	1.53
1	aE	84	HIS	CD2-NE2	5.87	1.44	1.37
1	aY	61	GLY	C-N	5.87	1.42	1.33
1	bm	54	THR	CA-C	5.87	1.60	1.52
1	bz	173	ARG	CD-NE	5.87	1.54	1.46
1	ck	201	ILE	C-O	-5.87	1.17	1.24
1	da	15	ILE	N-CA	-5.87	1.39	1.46
1	dE	209	ALA	N-CA	-5.87	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1m	33	SER	CA-C	5.87	1.59	1.53
1	dJ	141	ILE	N-CA	5.87	1.53	1.46
1	ec	213	GLU	CA-C	-5.87	1.45	1.52
1	en	7	GLN	N-CA	-5.87	1.38	1.45
1	ez	104	ILE	N-CA	-5.87	1.38	1.46
1	f2	35	GLU	C-N	-5.87	1.27	1.33
1	fa	161	PHE	CB-CG	-5.87	1.37	1.50
1	g3	92	GLU	CA-CB	5.87	1.62	1.53
1	g	137	GLY	N-CA	5.87	1.53	1.45
1	p	219	GLN	C-N	5.87	1.41	1.33
1	4	166	ASP	CA-C	5.87	1.60	1.52
1	gg	17	PRO	N-CD	-5.86	1.39	1.47
1	1D	130	TYR	CA-C	5.86	1.60	1.52
1	gu	42	ALA	N-CA	-5.86	1.39	1.46
1	h6	178	SER	CA-CB	5.86	1.62	1.53
1	hj	50	GLN	CA-CB	5.86	1.62	1.53
1	hp	26	VAL	C-O	-5.86	1.17	1.24
1	hp	156	GLY	CA-C	-5.86	1.43	1.51
1	ht	68	MET	C-N	5.86	1.41	1.33
1	hI	90	PRO	CA-CB	5.86	1.61	1.53
1	hI	184	TRP	NE1-CE2	-5.86	1.30	1.37
1	i3	202	LEU	CA-C	-5.86	1.44	1.52
1	i6	107	THR	C-N	5.86	1.42	1.33
1	im	141	ILE	C-N	5.86	1.41	1.33
1	ir	164	TYR	C-N	5.86	1.41	1.34
1	iV	220	GLY	N-CA	5.86	1.53	1.45
1	kv	155	GLN	CA-CB	5.86	1.61	1.53
1	kC	196	PRO	CA-CB	5.86	1.62	1.53
1	kD	152	ASP	CA-CB	5.86	1.62	1.53
1	kW	213	GLU	C-N	5.86	1.41	1.33
1	2a	82	ARG	CA-CB	5.86	1.62	1.53
1	2b	224	PRO	CA-CB	-5.86	1.46	1.53
1	2q	29	GLU	CA-CB	5.86	1.63	1.54
1	30	186	THR	CA-C	-5.86	1.45	1.52
1	3l	65	ALA	C-N	5.86	1.42	1.33
1	44	76	GLU	C-N	5.86	1.41	1.33
1	4a	226	HIS	CB-CG	5.86	1.58	1.50
1	5i	154	ARG	N-CA	5.86	1.53	1.46
1	5p	113	GLU	CA-CB	5.86	1.62	1.53
1	5G	138	LEU	CA-C	5.86	1.60	1.52
1	5Y	192	GLN	CA-C	5.86	1.60	1.52
1	60	147	PRO	C-N	5.86	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Q	183	ASN	C-O	-5.86	1.17	1.24
1	7h	72	THR	CA-C	-5.86	1.45	1.52
1	7x	107	THR	N-CA	5.86	1.53	1.46
1	87	107	THR	CA-C	-5.86	1.47	1.53
1	8l	72	THR	C-N	5.86	1.41	1.33
1	8r	61	GLY	C-N	5.86	1.41	1.33
1	8H	23	TRP	C-O	-5.86	1.17	1.24
1	90	70	LYS	CA-CB	5.86	1.62	1.53
1	9A	120	HIS	N-CA	-5.86	1.38	1.45
1	9D	171	THR	N-CA	5.86	1.53	1.46
1	9F	208	ALA	C-N	5.86	1.41	1.33
1	9T	212	GLU	C-N	5.86	1.41	1.33
1	9Y	75	GLU	C-N	5.86	1.41	1.33
1	aV	90	PRO	CA-C	5.86	1.60	1.52
1	b2	184	TRP	C-N	5.86	1.41	1.33
1	b8	195	ASN	CA-CB	5.86	1.62	1.53
1	ba	30	LYS	CA-C	5.86	1.60	1.52
1	cx	208	ALA	C-O	5.86	1.32	1.23
1	cI	198	CYS	N-CA	5.86	1.53	1.46
1	1j	71	GLU	C-N	5.86	1.41	1.33
1	dm	18	ARG	CZ-NH2	-5.86	1.25	1.33
1	dq	19	THR	C-N	5.86	1.41	1.33
1	dX	189	LEU	CA-C	5.86	1.60	1.52
1	ej	4	GLN	N-CA	-5.86	1.39	1.45
1	eu	168	PHE	N-CA	-5.86	1.39	1.46
1	f5	82	ARG	CZ-NH1	-5.86	1.24	1.32
1	fh	9	GLN	C-N	5.86	1.40	1.33
1	fy	177	ALA	CA-C	5.86	1.59	1.52
1	fI	78	ALA	C-N	5.86	1.41	1.33
1	fQ	32	PHE	CA-CB	5.86	1.60	1.52
1	fU	44	SER	N-CA	-5.86	1.40	1.46
1	fW	49	PRO	CA-C	5.86	1.62	1.52
1	fX	212	GLU	CA-C	5.86	1.60	1.52
1	g	84	HIS	CE1-NE2	5.86	1.38	1.32
1	u	207	PRO	N-CA	-5.86	1.39	1.47
1	N	70	LYS	CA-C	5.86	1.60	1.52
1	S	141	ILE	CA-CB	-5.86	1.47	1.54
1	T	121	ASN	CA-CB	5.86	1.64	1.53
1	hW	84	HIS	N-CA	-5.86	1.40	1.46
1	ie	229	ARG	CD-NE	5.86	1.54	1.46
1	ku	84	HIS	CG-ND1	-5.86	1.31	1.38
1	kI	224	PRO	N-CA	-5.86	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kO	7	GLN	CA-C	5.86	1.60	1.52
1	l5	214	MET	CA-C	-5.86	1.45	1.52
1	3l	151	LEU	CA-C	5.86	1.60	1.52
1	3z	150	ILE	CA-CB	-5.86	1.46	1.54
1	3E	98	GLU	N-CA	5.86	1.53	1.45
1	4f	78	ALA	C-O	-5.86	1.17	1.24
1	4R	213	GLU	CA-CB	5.86	1.62	1.53
1	5c	82	ARG	NE-CZ	-5.86	1.26	1.33
1	6g	15	ILE	CA-C	5.86	1.60	1.52
1	6j	6	LEU	CA-CB	5.86	1.63	1.53
1	6R	26	VAL	CA-C	-5.86	1.45	1.52
1	6S	201	ILE	CA-C	5.86	1.60	1.52
1	78	156	GLY	C-N	5.86	1.41	1.34
1	7d	110	THR	C-N	5.86	1.41	1.33
1	7G	138	LEU	CA-CB	5.86	1.62	1.53
1	9H	93	PRO	CA-CB	5.86	1.64	1.53
1	9I	44	SER	N-CA	-5.86	1.38	1.46
1	9I	198	CYS	N-CA	-5.86	1.40	1.46
1	9S	197	ASP	CA-C	5.86	1.60	1.52
1	9U	1	PRO	N-CD	5.86	1.55	1.47
1	Z	118	MET	CA-CB	5.86	1.63	1.53
1	a0	19	THR	CA-C	-5.86	1.45	1.52
1	ba	69	LEU	C-N	5.86	1.41	1.33
1	bq	141	ILE	C-N	5.86	1.41	1.33
1	bH	200	THR	N-CA	5.86	1.53	1.46
1	cZ	19	THR	CA-C	-5.86	1.45	1.52
1	d8	13	GLN	CA-C	5.86	1.60	1.52
1	do	175	GLU	N-CA	5.86	1.53	1.46
1	1p	216	THR	CA-C	5.86	1.60	1.52
1	er	88	ALA	CA-CB	5.86	1.61	1.53
1	ev	31	ALA	N-CA	5.86	1.53	1.46
1	fa	9	GLN	N-CA	5.86	1.53	1.46
1	fh	87	HIS	CA-C	5.86	1.59	1.52
1	fW	125	PRO	CA-CB	5.86	1.60	1.53
1	S	2	ILE	CA-CB	5.86	1.60	1.53
1	T	57	ASN	C-O	-5.86	1.16	1.24
1	1D	21	ASN	CA-CB	5.86	1.62	1.53
1	gS	62	HIS	CE1-NE2	5.86	1.38	1.32
1	1I	16	SER	C-N	-5.86	1.26	1.33
1	hh	228	ALA	CA-CB	5.86	1.62	1.53
1	hl	91	ILE	N-CA	-5.86	1.39	1.46
1	hn	56	LEU	CA-CB	5.86	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ho	54	THR	C-O	5.86	1.30	1.24
1	i4	156	GLY	N-CA	-5.86	1.36	1.44
1	i8	129	ILE	CA-CB	-5.86	1.47	1.54
1	im	196	PRO	N-CA	5.86	1.55	1.47
1	in	162	ARG	N-CA	-5.86	1.39	1.46
1	ja	211	LEU	CA-CB	5.86	1.62	1.53
1	ji	151	LEU	CA-CB	5.86	1.62	1.53
1	jL	230	VAL	CA-CB	5.86	1.63	1.54
1	jM	175	GLU	CA-C	5.86	1.60	1.52
1	jZ	12	HIS	CA-C	5.86	1.60	1.52
1	1Z	33	SER	CA-CB	5.86	1.62	1.53
1	k7	87	HIS	ND1-CE1	5.86	1.38	1.32
1	k8	168	PHE	CA-CB	5.86	1.62	1.53
1	kd	10	MET	CA-C	5.86	1.60	1.52
1	kJ	181	VAL	C-N	5.86	1.41	1.33
1	25	185	MET	CA-CB	5.86	1.62	1.53
1	l4	125	PRO	CA-C	-5.86	1.48	1.53
1	la	16	SER	CA-C	5.86	1.59	1.53
1	lP	31	ALA	CA-C	-5.86	1.45	1.52
1	2p	165	VAL	CA-C	-5.86	1.45	1.52
1	2W	139	ASN	CA-CB	5.86	1.62	1.53
1	3G	54	THR	C-O	-5.86	1.17	1.24
1	3M	169	TYR	CA-C	5.86	1.60	1.52
1	3Z	212	GLU	C-N	5.86	1.41	1.33
1	4R	114	GLN	C-O	-5.86	1.17	1.24
1	4T	60	GLY	N-CA	5.86	1.53	1.45
1	59	201	ILE	CA-C	5.86	1.59	1.52
1	5i	66	MET	N-CA	5.86	1.53	1.46
1	5t	126	VAL	CA-C	5.86	1.60	1.52
1	5v	230	VAL	CA-C	-5.86	1.45	1.52
1	5w	65	ALA	CA-CB	5.86	1.62	1.53
1	6b	123	PRO	C-N	5.86	1.39	1.33
1	71	111	LEU	N-CA	-5.86	1.39	1.46
1	7b	183	ASN	CA-C	-5.86	1.45	1.52
1	7s	105	ALA	CA-C	5.86	1.60	1.52
1	7z	180	GLU	N-CA	-5.86	1.39	1.46
1	7U	2	ILE	CA-C	5.86	1.59	1.52
1	8c	150	ILE	CA-C	-5.86	1.44	1.52
1	8f	162	ARG	N-CA	5.86	1.53	1.46
1	8z	226	HIS	CE1-NE2	5.86	1.38	1.32
1	8B	226	HIS	CD2-NE2	5.86	1.44	1.37
1	8R	225	GLY	CA-C	-5.86	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	90	12	HIS	CA-CB	5.86	1.62	1.53
1	9e	229	ARG	NE-CZ	-5.86	1.26	1.33
1	9i	119	THR	C-N	5.86	1.41	1.33
1	9p	61	GLY	C-N	5.86	1.41	1.33
1	9w	137	GLY	CA-C	5.86	1.58	1.52
1	9L	25	LYS	CA-CB	5.86	1.62	1.53
1	9P	189	LEU	N-CA	-5.86	1.39	1.46
1	ar	68	MET	CA-C	-5.86	1.45	1.52
1	as	74	ASN	CA-CB	5.86	1.62	1.53
1	bP	81	ASP	C-O	5.86	1.30	1.24
1	c4	190	LEU	N-CA	5.86	1.53	1.46
1	ck	84	HIS	N-CA	-5.86	1.40	1.46
1	d6	179	GLN	CA-CB	5.86	1.63	1.53
1	dv	150	ILE	C-N	5.86	1.42	1.33
1	dD	188	THR	N-CA	-5.86	1.38	1.46
1	dG	189	LEU	CA-CB	5.86	1.62	1.53
1	1m	107	THR	CA-CB	-5.86	1.44	1.53
1	dQ	135	ILE	CA-CB	-5.86	1.47	1.54
1	e5	184	TRP	CZ2-CH2	5.86	1.48	1.37
1	e7	50	GLN	N-CA	5.86	1.53	1.46
1	eb	120	HIS	CA-C	5.86	1.60	1.52
1	eK	103	ASP	CA-CB	5.86	1.62	1.53
1	f9	120	HIS	CE1-NE2	-5.86	1.26	1.32
1	fb	10	MET	CA-CB	5.86	1.61	1.53
1	fh	132	ARG	CD-NE	5.86	1.54	1.46
1	fk	45	GLU	CA-CB	5.86	1.62	1.53
1	fv	124	ILE	CA-CB	5.86	1.59	1.54
1	fx	100	ARG	NE-CZ	-5.86	1.26	1.33
1	fL	36	VAL	N-CA	-5.86	1.38	1.46
1	d	226	HIS	CE1-NE2	5.86	1.38	1.32
1	y	84	HIS	CG-ND1	5.86	1.44	1.38
1	gv	208	ALA	N-CA	-5.86	1.38	1.46
1	l8	12	HIS	CE1-NE2	5.86	1.38	1.32
1	2d	76	GLU	CA-CB	5.86	1.62	1.53
1	2V	162	ARG	CD-NE	5.86	1.54	1.46
1	33	98	GLU	CA-CB	5.86	1.62	1.52
1	3j	139	ASN	CA-C	-5.86	1.44	1.52
1	43	126	VAL	N-CA	5.86	1.53	1.46
1	4E	27	VAL	CA-CB	-5.86	1.46	1.54
1	5v	99	PRO	N-CD	-5.86	1.39	1.47
1	6u	96	MET	N-CA	-5.86	1.38	1.46
1	7K	87	HIS	ND1-CE1	5.86	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8M	97	ARG	N-CA	5.86	1.53	1.45
1	8M	138	LEU	CA-CB	5.86	1.62	1.53
1	9n	12	HIS	CG-ND1	5.86	1.44	1.38
1	a6	62	HIS	CD2-NE2	5.86	1.44	1.37
1	ax	186	THR	CA-CB	-5.86	1.44	1.53
1	13	225	GLY	CA-C	5.86	1.60	1.51
1	aG	171	THR	C-O	-5.86	1.17	1.24
1	aX	138	LEU	CA-C	-5.86	1.45	1.52
1	b7	184	TRP	CZ2-CH2	5.86	1.48	1.37
1	b8	123	PRO	C-N	5.86	1.39	1.33
1	bi	40	PHE	N-CA	-5.86	1.39	1.46
1	cG	12	HIS	ND1-CE1	5.86	1.38	1.32
1	1u	198	CYS	N-CA	-5.86	1.39	1.46
1	g0	2	ILE	N-CA	5.86	1.53	1.46
1	k	18	ARG	CD-NE	5.86	1.54	1.46
1	9	206	GLY	N-CA	5.86	1.52	1.44
1	gE	62	HIS	CG-CD2	-5.86	1.29	1.35
1	hx	182	LYS	C-N	5.86	1.41	1.33
1	i1	145	TYR	CA-CB	5.86	1.61	1.53
1	ih	124	ILE	CA-CB	5.86	1.59	1.53
1	iE	104	ILE	CA-CB	-5.86	1.47	1.54
1	1R	145	TYR	CA-CB	5.86	1.63	1.53
1	j4	139	ASN	CA-CB	5.86	1.62	1.53
1	ja	18	ARG	CA-C	5.86	1.60	1.52
1	1V	87	HIS	CE1-NE2	-5.86	1.26	1.32
1	jo	226	HIS	CB-CG	5.86	1.58	1.50
1	jx	171	THR	C-N	5.86	1.41	1.33
1	jC	87	HIS	ND1-CE1	5.86	1.38	1.32
1	1X	84	HIS	CE1-NE2	-5.86	1.26	1.32
1	jK	70	LYS	N-CA	-5.86	1.39	1.46
1	k0	227	LYS	CA-C	5.86	1.60	1.52
1	kA	200	THR	CA-C	5.86	1.60	1.52
1	kD	203	LYS	N-CA	-5.86	1.39	1.46
1	kS	208	ALA	N-CA	-5.86	1.38	1.46
1	l8	94	GLY	CA-C	-5.86	1.43	1.51
1	l8	191	VAL	CA-CB	5.86	1.61	1.54
1	lr	224	PRO	CA-CB	5.86	1.61	1.53
1	2l	103	ASP	N-CA	-5.86	1.39	1.46
1	3g	44	SER	CA-C	-5.86	1.45	1.52
1	3p	149	SER	C-N	5.86	1.40	1.34
1	4B	161	PHE	N-CA	5.86	1.53	1.46
1	51	11	VAL	CA-C	-5.86	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	58	24	VAL	CA-CB	-5.86	1.47	1.54
1	5u	147	PRO	N-CA	-5.86	1.40	1.47
1	6s	4	GLN	C-N	5.86	1.42	1.33
1	6E	164	TYR	CA-CB	5.86	1.62	1.53
1	6Q	167	ARG	CZ-NH2	-5.86	1.25	1.33
1	6R	116	GLY	N-CA	5.86	1.53	1.45
1	6R	195	ASN	C-N	5.86	1.42	1.33
1	6S	89	GLY	CA-C	5.86	1.60	1.51
1	7K	37	ILE	N-CA	5.86	1.53	1.46
1	86	57	ASN	C-N	5.86	1.41	1.33
1	8m	124	ILE	CA-CB	5.86	1.59	1.53
1	8o	167	ARG	CD-NE	5.86	1.54	1.46
1	8w	17	PRO	CA-CB	5.86	1.62	1.53
1	8L	56	LEU	CB-CG	5.86	1.65	1.53
1	a4	99	PRO	N-CA	-5.86	1.40	1.47
1	am	174	ALA	N-CA	-5.86	1.38	1.46
1	aJ	122	PRO	C-N	5.86	1.41	1.33
1	aM	104	ILE	C-O	-5.86	1.17	1.24
1	17	84	HIS	ND1-CE1	5.86	1.38	1.32
1	bi	161	PHE	CA-C	5.86	1.60	1.52
1	18	156	GLY	N-CA	5.86	1.52	1.44
1	bB	205	LEU	C-N	5.86	1.42	1.33
1	bG	31	ALA	C-N	5.86	1.41	1.33
1	bY	149	SER	CA-C	-5.86	1.45	1.52
1	c0	90	PRO	CA-C	-5.86	1.45	1.52
1	c4	41	SER	CA-CB	5.86	1.62	1.53
1	cY	212	GLU	CA-CB	5.86	1.62	1.53
1	d1	171	THR	N-CA	-5.86	1.39	1.46
1	d4	87	HIS	CB-CG	5.86	1.58	1.50
1	d9	121	ASN	CA-C	5.86	1.58	1.52
1	do	25	LYS	CA-C	5.86	1.60	1.52
1	dP	186	THR	N-CA	5.86	1.53	1.46
1	dR	19	THR	CA-C	5.86	1.60	1.52
1	e1	44	SER	CA-CB	5.86	1.62	1.53
1	e4	219	GLN	CA-C	5.86	1.60	1.52
1	ef	10	MET	CA-C	5.86	1.60	1.52
1	1s	83	LEU	N-CA	5.86	1.53	1.46
1	fd	10	MET	CA-CB	5.86	1.62	1.53
1	fm	132	ARG	NE-CZ	5.86	1.39	1.33
1	fp	43	LEU	C-N	5.86	1.41	1.33
1	fK	12	HIS	N-CA	-5.86	1.39	1.45
1	fT	68	MET	CA-CB	5.86	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g2	84	HIS	CA-CB	5.86	1.61	1.53
1	gd	180	GLU	CA-C	5.86	1.60	1.52
1	gn	10	MET	CA-C	5.86	1.60	1.52
1	gX	190	LEU	C-N	5.86	1.41	1.34
1	h8	47	ALA	CA-C	-5.86	1.45	1.52
1	hn	50	GLN	N-CA	5.86	1.53	1.46
1	hE	58	THR	N-CA	5.86	1.53	1.46
1	hG	121	ASN	CA-C	5.86	1.57	1.52
1	hT	55	MET	N-CA	5.86	1.53	1.46
1	iy	117	TRP	CA-CB	5.86	1.62	1.53
1	iG	229	ARG	CD-NE	5.86	1.54	1.46
1	iO	11	VAL	CA-CB	5.86	1.61	1.53
1	j8	35	GLU	N-CA	-5.86	1.38	1.46
1	jx	134	ILE	CA-CB	5.86	1.61	1.54
1	jR	198	CYS	C-N	5.86	1.41	1.33
1	k0	18	ARG	CA-C	-5.86	1.45	1.52
1	kK	86	VAL	CA-CB	-5.86	1.48	1.54
1	lh	87	HIS	N-CA	-5.86	1.39	1.46
1	27	173	ARG	CD-NE	5.86	1.54	1.46
1	lx	65	ALA	C-O	-5.86	1.17	1.24
1	2h	62	HIS	N-CA	-5.86	1.37	1.46
1	3n	75	GLU	CA-C	-5.86	1.45	1.52
1	3K	177	ALA	CA-CB	5.86	1.62	1.53
1	3L	84	HIS	CA-C	5.86	1.59	1.52
1	49	183	ASN	CA-CB	-5.86	1.44	1.53
1	4o	30	LYS	N-CA	-5.86	1.39	1.46
1	4q	128	GLU	CA-CB	5.86	1.62	1.53
1	4v	77	ALA	CA-CB	5.86	1.62	1.53
1	4w	155	GLN	C-N	5.86	1.42	1.33
1	4z	201	ILE	N-CA	-5.86	1.39	1.46
1	54	77	ALA	N-CA	-5.86	1.39	1.46
1	5q	117	TRP	NE1-CE2	-5.86	1.31	1.37
1	5u	220	GLY	C-N	5.86	1.41	1.33
1	5I	219	GLN	N-CA	-5.86	1.38	1.46
1	5J	179	GLN	C-O	-5.86	1.17	1.24
1	5T	102	SER	CA-C	5.86	1.60	1.52
1	64	106	GLY	C-O	-5.86	1.16	1.24
1	6k	219	GLN	N-CA	-5.86	1.38	1.46
1	6v	216	THR	C-O	-5.86	1.17	1.24
1	6y	139	ASN	N-CA	5.86	1.53	1.46
1	6A	211	LEU	CA-C	5.86	1.60	1.52
1	6T	185	MET	N-CA	5.86	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6W	162	ARG	CA-CB	5.86	1.62	1.53
1	77	54	THR	N-CA	5.86	1.53	1.46
1	87	154	ARG	CD-NE	5.86	1.54	1.46
1	89	37	ILE	CA-CB	5.86	1.57	1.54
1	8k	154	ARG	CD-NE	5.86	1.54	1.46
1	8O	93	PRO	N-CA	5.86	1.53	1.47
1	9j	56	LEU	CA-C	5.86	1.60	1.52
1	9p	55	MET	CA-C	5.86	1.60	1.52
1	af	117	TRP	C-N	5.86	1.41	1.34
1	b6	84	HIS	CD2-NE2	5.86	1.44	1.37
1	18	22	ALA	CA-C	5.86	1.60	1.52
1	c0	124	ILE	CA-CB	-5.86	1.46	1.54
1	c5	217	ALA	CA-C	5.86	1.59	1.52
1	c8	62	HIS	CE1-NE2	5.86	1.38	1.32
1	cl	180	GLU	C-N	5.86	1.41	1.33
1	cq	84	HIS	CG-ND1	5.86	1.44	1.38
1	1f	59	VAL	CA-C	5.86	1.60	1.52
1	dI	55	MET	CA-C	5.86	1.60	1.52
1	dO	143	ARG	CD-NE	5.86	1.54	1.46
1	dW	113	GLU	CA-C	5.86	1.60	1.52
1	e3	91	ILE	C-N	5.86	1.41	1.33
1	e4	82	ARG	NE-CZ	5.86	1.39	1.33
1	eb	19	THR	CA-C	5.86	1.60	1.52
1	eI	31	ALA	CA-C	5.86	1.60	1.52
1	eI	37	ILE	N-CA	-5.86	1.39	1.46
1	eW	31	ALA	CA-C	5.86	1.60	1.53
1	fi	64	ALA	C-O	-5.86	1.17	1.24
1	fl	162	ARG	CA-C	5.86	1.60	1.52
1	fp	24	VAL	C-N	5.86	1.41	1.33
1	1y	131	LYS	CA-C	5.86	1.60	1.52
1	fV	65	ALA	N-CA	-5.86	1.39	1.46
1	N	124	ILE	N-CA	-5.86	1.41	1.47
1	P	97	ARG	N-CA	-5.86	1.38	1.45
1	gc	146	SER	CA-C	5.85	1.59	1.52
1	1C	116	GLY	CA-C	-5.85	1.45	1.51
1	gZ	209	ALA	N-CA	-5.85	1.38	1.45
1	j3	24	VAL	CA-CB	5.85	1.61	1.54
1	jf	142	VAL	CA-CB	-5.85	1.47	1.54
1	jR	23	TRP	CA-CB	5.85	1.62	1.53
1	k0	213	GLU	N-CA	-5.85	1.39	1.46
1	kq	130	TYR	N-CA	5.85	1.53	1.46
1	ls	200	THR	CA-CB	-5.85	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2e	128	GLU	CA-C	5.85	1.60	1.52
1	2O	20	LEU	C-N	5.85	1.42	1.34
1	3d	168	PHE	CA-CB	5.85	1.62	1.53
1	4f	126	VAL	CA-C	5.85	1.60	1.52
1	5x	176	GLN	CA-C	5.85	1.60	1.52
1	5D	60	GLY	N-CA	5.85	1.52	1.45
1	6a	96	MET	CA-CB	5.85	1.62	1.53
1	6P	12	HIS	CA-CB	-5.85	1.44	1.53
1	72	129	ILE	CA-CB	-5.85	1.47	1.54
1	85	103	ASP	N-CA	5.85	1.53	1.46
1	8N	28	GLU	CA-C	5.85	1.60	1.52
1	90	34	PRO	CA-C	5.85	1.58	1.52
1	aF	205	LEU	CA-C	5.85	1.60	1.52
1	aL	221	VAL	CA-CB	5.85	1.61	1.54
1	aX	160	PRO	CA-C	5.85	1.58	1.52
1	cM	186	THR	C-N	5.85	1.41	1.33
1	dW	111	LEU	N-CA	5.85	1.53	1.46
1	eE	114	GLN	CA-CB	5.85	1.62	1.53
1	f	49	PRO	N-CA	-5.85	1.39	1.47
1	gk	195	ASN	N-CA	5.85	1.53	1.45
1	gw	215	MET	CA-C	-5.85	1.44	1.52
1	gD	190	LEU	CA-CB	5.85	1.62	1.53
1	1F	102	SER	CA-CB	5.85	1.62	1.53
1	1F	180	GLU	N-CA	5.85	1.53	1.46
1	ho	149	SER	C-N	5.85	1.41	1.34
1	hp	83	LEU	N-CA	-5.85	1.39	1.46
1	1J	115	ILE	CA-C	5.85	1.59	1.52
1	hq	152	ASP	CA-CB	5.85	1.63	1.53
1	hu	51	ASP	CA-CB	5.85	1.62	1.53
1	hH	130	TYR	CA-C	-5.85	1.45	1.52
1	hL	212	GLU	C-N	5.85	1.41	1.33
1	hS	2	ILE	C-N	5.85	1.40	1.33
1	1Q	32	PHE	CA-CB	5.85	1.62	1.53
1	j7	67	GLN	N-CA	5.85	1.53	1.46
1	jE	25	LYS	C-N	5.85	1.41	1.33
1	k7	63	GLN	CA-C	-5.85	1.44	1.52
1	ka	119	THR	CA-CB	5.85	1.61	1.53
1	kj	204	ALA	N-CA	-5.85	1.39	1.46
1	ko	81	ASP	CA-C	5.85	1.60	1.52
1	kK	231	LEU	CB-CG	5.85	1.65	1.53
1	kV	97	ARG	NE-CZ	-5.85	1.26	1.33
1	lf	183	ASN	CA-C	5.85	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lg	70	LYS	CA-CB	5.85	1.62	1.53
1	li	87	HIS	CG-ND1	-5.85	1.31	1.38
1	lr	3	VAL	CA-CB	-5.85	1.47	1.54
1	lN	167	ARG	CD-NE	5.85	1.54	1.46
1	2k	82	ARG	N-CA	5.85	1.53	1.46
1	2u	147	PRO	CA-C	5.85	1.59	1.52
1	2V	62	HIS	CB-CG	-5.85	1.42	1.50
1	3h	141	ILE	CA-CB	-5.85	1.47	1.54
1	3t	159	GLU	CA-CB	5.85	1.63	1.52
1	4n	143	ARG	CD-NE	5.85	1.54	1.46
1	4S	198	CYS	CA-C	5.85	1.60	1.52
1	5c	178	SER	CA-CB	5.85	1.63	1.53
1	5f	138	LEU	C-O	-5.85	1.17	1.24
1	5l	70	LYS	C-N	5.85	1.41	1.33
1	5v	146	SER	C-N	5.85	1.38	1.33
1	5w	165	VAL	CA-CB	5.85	1.61	1.54
1	62	167	ARG	CA-CB	5.85	1.62	1.53
1	6Q	228	ALA	CA-CB	5.85	1.62	1.53
1	71	120	HIS	CD2-NE2	5.85	1.44	1.37
1	79	2	ILE	CA-C	5.85	1.59	1.52
1	7e	213	GLU	C-O	-5.85	1.16	1.24
1	7N	49	PRO	CA-CB	5.85	1.62	1.53
1	7X	230	VAL	CA-CB	5.85	1.60	1.54
1	86	27	VAL	N-CA	-5.85	1.39	1.46
1	88	36	VAL	C-O	5.85	1.32	1.24
1	8k	164	TYR	CA-CB	5.85	1.62	1.53
1	8I	163	ASP	N-CA	-5.85	1.38	1.46
1	8O	25	LYS	C-O	-5.85	1.17	1.24
1	8X	166	ASP	C-N	5.85	1.42	1.34
1	9w	148	THR	CA-C	-5.85	1.45	1.52
1	9z	138	LEU	CB-CG	5.85	1.65	1.53
1	a8	168	PHE	CA-C	-5.85	1.45	1.52
1	ag	206	GLY	C-N	5.85	1.38	1.33
1	ao	200	THR	C-N	5.85	1.41	1.33
1	aD	43	LEU	CA-CB	5.85	1.62	1.53
1	b1	121	ASN	CA-C	5.85	1.57	1.52
1	bi	115	ILE	CA-C	5.85	1.60	1.52
1	bv	161	PHE	CA-C	5.85	1.60	1.52
1	bz	167	ARG	CA-CB	5.85	1.63	1.53
1	19	162	ARG	CZ-NH2	-5.85	1.25	1.33
1	1a	139	ASN	CA-CB	5.85	1.63	1.53
1	dc	43	LEU	CA-C	-5.85	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ds	195	ASN	CA-CB	5.85	1.61	1.53
1	dO	36	VAL	C-N	5.85	1.40	1.33
1	1n	200	THR	N-CA	5.85	1.53	1.46
1	1o	133	TRP	NE1-CE2	-5.85	1.31	1.37
1	er	229	ARG	CA-CB	-5.85	1.45	1.53
1	es	47	ALA	C-O	5.85	1.31	1.23
1	ex	226	HIS	CG-CD2	5.85	1.42	1.35
1	eU	3	VAL	C-N	5.85	1.42	1.33
1	1y	127	GLY	CA-C	5.85	1.58	1.52
1	fK	158	LYS	CA-C	-5.85	1.44	1.52
1	fL	128	GLU	N-CA	-5.85	1.39	1.46
1	g1	21	ASN	CA-CB	5.85	1.62	1.53
1	i	4	GLN	C-N	5.85	1.41	1.33
1	v	141	ILE	N-CA	5.85	1.53	1.46
1	M	187	GLU	C-N	5.85	1.41	1.33
1	N	227	LYS	N-CA	-5.85	1.38	1.46
1	5	109	SER	CA-C	5.85	1.59	1.52
1	1I	88	ALA	N-CA	-5.85	1.39	1.46
1	hl	208	ALA	C-N	-5.85	1.25	1.33
1	hv	126	VAL	C-N	5.85	1.42	1.33
1	hz	2	ILE	C-O	-5.85	1.16	1.24
1	hN	197	ASP	N-CA	-5.85	1.38	1.46
1	is	223	GLY	CA-C	5.85	1.60	1.51
1	j0	208	ALA	C-N	5.85	1.41	1.33
1	j2	162	ARG	C-O	5.85	1.31	1.24
1	j9	118	MET	CA-C	5.85	1.60	1.52
1	je	181	VAL	CA-CB	-5.85	1.47	1.54
1	2t	167	ARG	CZ-NH2	-5.85	1.25	1.33
1	2u	184	TRP	C-N	5.85	1.41	1.33
1	3f	113	GLU	CA-C	5.85	1.60	1.52
1	4f	96	MET	CA-CB	5.85	1.62	1.53
1	5m	59	VAL	CA-CB	5.85	1.62	1.54
1	5D	176	GLN	CA-CB	5.85	1.62	1.53
1	86	223	GLY	C-N	-5.85	1.26	1.33
1	aV	156	GLY	N-CA	5.85	1.52	1.44
1	bI	160	PRO	N-CD	-5.85	1.39	1.47
1	c9	146	SER	CA-CB	5.85	1.61	1.53
1	cF	205	LEU	C-N	5.85	1.42	1.33
1	dw	206	GLY	CA-C	5.85	1.60	1.51
1	eG	92	GLU	CA-CB	5.85	1.62	1.53
1	G	24	VAL	CA-CB	5.85	1.61	1.54
1	gc	2	ILE	CA-CB	-5.85	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	go	162	ARG	C-N	5.85	1.41	1.33
1	gJ	103	ASP	N-CA	5.85	1.53	1.46
1	gS	196	PRO	C-N	5.85	1.41	1.33
1	gT	212	GLU	CA-CB	5.85	1.62	1.53
1	1G	81	ASP	CA-CB	5.85	1.62	1.53
1	1G	132	ARG	NE-CZ	-5.85	1.26	1.33
1	hz	153	ILE	CA-CB	-5.85	1.48	1.54
1	hX	179	GLN	C-N	5.85	1.41	1.33
1	iC	24	VAL	CA-C	5.85	1.60	1.52
1	iE	206	GLY	N-CA	5.85	1.52	1.44
1	1S	156	GLY	N-CA	5.85	1.52	1.44
1	iS	205	LEU	C-N	5.85	1.42	1.33
1	iX	207	PRO	C-N	5.85	1.43	1.33
1	j7	50	GLN	CA-C	5.85	1.60	1.52
1	jA	32	PHE	CA-CB	5.85	1.61	1.53
1	jP	31	ALA	CA-C	5.85	1.60	1.52
1	jX	229	ARG	CA-C	5.85	1.59	1.52
1	k9	3	VAL	N-CA	-5.85	1.39	1.46
1	23	153	ILE	CA-CB	-5.85	1.47	1.54
1	lh	212	GLU	CA-C	5.85	1.60	1.52
1	li	175	GLU	CA-CB	5.85	1.63	1.53
1	ln	64	ALA	CA-C	5.85	1.60	1.52
1	2k	45	GLU	CA-CB	5.85	1.61	1.53
1	2P	185	MET	CA-C	5.85	1.60	1.52
1	3u	90	PRO	CA-CB	-5.85	1.46	1.53
1	3B	216	THR	CB-OG1	-5.85	1.34	1.43
1	3F	73	ILE	CA-CB	-5.85	1.46	1.54
1	42	22	ALA	C-N	5.85	1.40	1.33
1	4p	144	MET	CA-CB	5.85	1.62	1.53
1	4C	71	GLU	CA-C	-5.85	1.45	1.52
1	4F	207	PRO	C-N	5.85	1.41	1.33
1	4P	24	VAL	CA-C	5.85	1.60	1.52
1	5t	125	PRO	N-CD	5.85	1.55	1.47
1	61	190	LEU	CA-C	5.85	1.60	1.52
1	6E	99	PRO	N-CA	-5.85	1.40	1.47
1	6H	174	ALA	CA-CB	5.85	1.62	1.54
1	6K	200	THR	C-O	5.85	1.31	1.24
1	6T	172	LEU	CA-CB	5.85	1.62	1.53
1	6Y	132	ARG	C-N	5.85	1.41	1.33
1	7x	62	HIS	CE1-NE2	5.85	1.38	1.32
1	8f	209	ALA	C-O	-5.85	1.16	1.23
1	8O	37	ILE	C-N	5.85	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8S	59	VAL	CA-CB	5.85	1.60	1.54
1	8W	113	GLU	N-CA	-5.85	1.39	1.46
1	9r	133	TRP	CA-CB	5.85	1.62	1.53
1	af	182	LYS	C-N	5.85	1.41	1.33
1	aD	92	GLU	CA-C	5.85	1.60	1.52
1	aO	155	GLN	N-CA	-5.85	1.38	1.46
1	b3	120	HIS	ND1-CE1	5.85	1.38	1.32
1	b7	161	PHE	CA-C	5.85	1.59	1.52
1	bt	191	VAL	C-N	5.85	1.42	1.34
1	c5	97	ARG	N-CA	-5.85	1.38	1.46
1	cb	90	PRO	CA-C	5.85	1.60	1.52
1	cA	184	TRP	N-CA	5.85	1.53	1.46
1	dz	145	TYR	CA-CB	5.85	1.63	1.53
1	dR	221	VAL	C-N	5.85	1.38	1.33
1	1s	216	THR	N-CA	-5.85	1.38	1.46
1	fR	16	SER	CA-C	5.85	1.59	1.52
1	y	23	TRP	N-CA	-5.85	1.39	1.46
1	I	228	ALA	N-CA	5.85	1.53	1.46
1	9	185	MET	CA-C	5.85	1.60	1.52
1	1D	216	THR	CA-CB	5.85	1.63	1.53
1	gC	178	SER	CA-CB	5.85	1.62	1.53
1	1F	228	ALA	N-CA	5.85	1.53	1.46
1	gW	20	LEU	C-N	5.85	1.41	1.33
1	h3	130	TYR	C-N	5.85	1.41	1.33
1	h3	132	ARG	CZ-NH2	-5.85	1.25	1.33
1	ha	2	ILE	C-O	5.85	1.29	1.24
1	hg	41	SER	C-N	5.85	1.41	1.33
1	hq	103	ASP	C-N	5.85	1.41	1.34
1	ia	154	ARG	CA-C	5.85	1.59	1.52
1	1O	5	ASN	N-CA	-5.85	1.38	1.46
1	1O	87	HIS	CD2-NE2	5.85	1.44	1.37
1	jf	62	HIS	CD2-NE2	5.85	1.44	1.37
1	jq	12	HIS	CB-CG	5.85	1.58	1.50
1	jR	29	GLU	CA-C	5.85	1.60	1.52
1	kj	37	ILE	N-CA	-5.85	1.39	1.46
1	kj	143	ARG	CD-NE	5.85	1.54	1.46
1	kv	80	TRP	CA-C	-5.85	1.45	1.52
1	kJ	229	ARG	N-CA	-5.85	1.39	1.46
1	kL	147	PRO	C-N	5.85	1.40	1.33
1	lf	125	PRO	N-CA	-5.85	1.40	1.47
1	2a	201	ILE	N-CA	-5.85	1.39	1.46
1	2r	222	GLY	C-O	-5.85	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2W	215	MET	CA-CB	5.85	1.62	1.53
1	2Z	170	LYS	CA-CB	5.85	1.62	1.53
1	3g	178	SER	N-CA	-5.85	1.38	1.46
1	3P	3	VAL	CA-C	5.85	1.59	1.52
1	42	226	HIS	ND1-CE1	5.85	1.38	1.32
1	4Q	201	ILE	C-N	5.85	1.42	1.34
1	50	184	TRP	NE1-CE2	5.85	1.43	1.37
1	5r	76	GLU	C-N	5.85	1.41	1.33
1	5I	168	PHE	CA-C	5.85	1.60	1.52
1	68	37	ILE	CA-C	5.85	1.58	1.52
1	6s	87	HIS	ND1-CE1	5.85	1.38	1.32
1	6M	97	ARG	CA-CB	5.85	1.61	1.53
1	6V	119	THR	N-CA	5.85	1.53	1.46
1	73	62	HIS	CG-ND1	5.85	1.44	1.38
1	75	181	VAL	CA-CB	-5.85	1.47	1.54
1	78	45	GLU	C-N	5.85	1.40	1.33
1	7i	54	THR	CB-OG1	5.85	1.53	1.43
1	7Z	175	GLU	CA-CB	5.85	1.62	1.53
1	8g	121	ASN	C-O	-5.85	1.20	1.25
1	8l	114	GLN	CA-CB	5.85	1.62	1.53
1	98	27	VAL	N-CA	5.85	1.53	1.46
1	9t	60	GLY	CA-C	-5.85	1.43	1.51
1	9H	229	ARG	CD-NE	5.85	1.54	1.46
1	9M	142	VAL	CA-C	-5.85	1.45	1.52
1	9R	87	HIS	C-N	5.85	1.41	1.33
1	aw	77	ALA	CA-CB	-5.85	1.44	1.53
1	aw	84	HIS	ND1-CE1	5.85	1.38	1.32
1	b3	127	GLY	C-N	5.85	1.41	1.33
1	bi	73	ILE	CA-CB	-5.85	1.47	1.54
1	co	118	MET	CA-C	5.85	1.60	1.52
1	cJ	127	GLY	CA-C	-5.85	1.44	1.51
1	cJ	176	GLN	CA-CB	5.85	1.62	1.53
1	cP	16	SER	CA-CB	5.85	1.62	1.53
1	da	170	LYS	C-N	5.85	1.41	1.33
1	dB	28	GLU	N-CA	5.85	1.53	1.46
1	dS	152	ASP	CA-C	5.85	1.60	1.52
1	e1	50	GLN	C-N	5.85	1.41	1.33
1	eu	13	GLN	CA-C	5.85	1.59	1.52
1	ew	149	SER	CA-CB	5.85	1.63	1.53
1	eF	110	THR	CA-C	5.85	1.61	1.53
1	eL	181	VAL	C-N	5.85	1.41	1.33
1	f5	74	ASN	CA-CB	5.85	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fi	26	VAL	N-CA	5.85	1.53	1.46
1	fo	154	ARG	CD-NE	5.85	1.54	1.46
1	fy	22	ALA	CA-CB	5.85	1.62	1.53
1	1A	153	ILE	CA-CB	-5.85	1.47	1.54
1	g2	115	ILE	C-N	5.85	1.41	1.33
1	1	24	VAL	C-O	-5.85	1.16	1.24
1	w	32	PHE	CA-C	5.85	1.61	1.52
1	R	87	HIS	ND1-CE1	5.85	1.38	1.32
1	6	23	TRP	C-O	-5.85	1.17	1.24
1	gF	211	LEU	C-N	5.85	1.41	1.33
1	gG	152	ASP	CA-C	5.85	1.60	1.52
1	gN	97	ARG	N-CA	5.85	1.53	1.46
1	gU	126	VAL	N-CA	5.85	1.53	1.46
1	hh	120	HIS	ND1-CE1	5.85	1.38	1.32
1	hP	166	ASP	CA-CB	5.85	1.62	1.53
1	i2	178	SER	CA-C	-5.85	1.45	1.52
1	iX	133	TRP	CA-CB	5.85	1.62	1.53
1	jt	23	TRP	C-N	5.85	1.40	1.34
1	jQ	148	THR	CB-OG1	-5.85	1.34	1.43
1	jU	205	LEU	CA-CB	5.85	1.62	1.53
1	jX	150	ILE	N-CA	5.85	1.53	1.46
1	kU	25	LYS	CA-CB	5.85	1.62	1.53
1	lJ	55	MET	CG-SD	5.85	1.95	1.80
1	2s	47	ALA	CA-C	5.85	1.60	1.52
1	2N	38	PRO	N-CA	5.85	1.54	1.47
1	2Z	13	GLN	CA-C	-5.85	1.45	1.52
1	43	171	THR	N-CA	5.85	1.53	1.46
1	4B	212	GLU	N-CA	5.85	1.53	1.46
1	6b	142	VAL	CA-CB	5.85	1.63	1.54
1	6U	23	TRP	NE1-CE2	-5.85	1.31	1.37
1	7z	120	HIS	CA-C	-5.85	1.45	1.53
1	8e	191	VAL	N-CA	-5.85	1.39	1.46
1	8f	78	ALA	N-CA	-5.85	1.39	1.46
1	8o	191	VAL	CA-CB	-5.85	1.46	1.54
1	cZ	177	ALA	C-N	5.85	1.41	1.33
1	dG	179	GLN	C-N	5.85	1.41	1.33
1	dQ	110	THR	CB-OG1	-5.85	1.34	1.43
1	e9	197	ASP	CA-CB	5.85	1.62	1.53
1	en	4	GLN	CA-CB	5.85	1.62	1.53
1	9	113	GLU	C-N	5.85	1.41	1.33
1	gp	115	ILE	CB-CG1	5.84	1.65	1.53
1	gr	129	ILE	N-CA	5.84	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gG	108	THR	CA-C	5.84	1.60	1.52
1	gH	133	TRP	CA-C	5.84	1.60	1.52
1	1G	146	SER	CA-C	5.84	1.60	1.52
1	ha	22	ALA	N-CA	5.84	1.53	1.46
1	hb	34	PRO	N-CD	5.84	1.55	1.47
1	hg	143	ARG	C-N	5.84	1.41	1.33
1	hG	90	PRO	CA-CB	5.84	1.59	1.53
1	hV	153	ILE	CA-CB	-5.84	1.47	1.54
1	i7	36	VAL	C-N	5.84	1.40	1.33
1	iB	118	MET	C-N	5.84	1.41	1.33
1	iH	39	MET	CA-C	5.84	1.60	1.52
1	ja	59	VAL	N-CA	5.84	1.53	1.46
1	jT	134	ILE	C-N	5.84	1.41	1.33
1	jV	169	TYR	CA-CB	5.84	1.63	1.53
1	k7	49	PRO	N-CD	-5.84	1.39	1.47
1	20	37	ILE	CB-CG1	5.84	1.65	1.53
1	ke	216	THR	C-N	5.84	1.41	1.33
1	kK	175	GLU	CA-C	-5.84	1.45	1.52
1	ly	145	TYR	CA-C	-5.84	1.44	1.52
1	2m	105	ALA	CA-C	5.84	1.60	1.52
1	2q	184	TRP	C-N	5.84	1.41	1.33
1	2z	152	ASP	C-N	5.84	1.40	1.33
1	2P	5	ASN	CA-CB	5.84	1.62	1.53
1	2Q	4	GLN	CA-C	5.84	1.60	1.52
1	2T	226	HIS	CG-ND1	-5.84	1.31	1.38
1	2X	130	TYR	C-N	5.84	1.41	1.33
1	3b	76	GLU	CA-CB	5.84	1.62	1.53
1	3x	155	GLN	C-N	5.84	1.42	1.33
1	3A	223	GLY	CA-C	5.84	1.60	1.51
1	3C	93	PRO	N-CA	5.84	1.54	1.47
1	4z	116	GLY	N-CA	5.84	1.53	1.45
1	4T	23	TRP	CA-C	5.84	1.60	1.52
1	4V	197	ASP	C-O	-5.84	1.15	1.24
1	5a	28	GLU	CA-C	5.84	1.60	1.52
1	5c	175	GLU	CA-C	-5.84	1.45	1.52
1	5j	111	LEU	C-N	5.84	1.41	1.33
1	5J	135	ILE	CA-C	5.84	1.60	1.52
1	5M	61	GLY	N-CA	5.84	1.51	1.45
1	5N	176	GLN	CA-CB	5.84	1.63	1.53
1	5O	100	ARG	CD-NE	5.84	1.54	1.46
1	5Q	132	ARG	CD-NE	5.84	1.54	1.46
1	61	86	VAL	CA-CB	-5.84	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6q	52	LEU	C-N	5.84	1.41	1.33
1	6X	141	ILE	CA-C	5.84	1.60	1.52
1	7i	167	ARG	CD-NE	5.84	1.54	1.46
1	7E	153	ILE	C-O	-5.84	1.18	1.24
1	7G	113	GLU	CA-C	-5.84	1.44	1.52
1	7J	226	HIS	CA-CB	5.84	1.62	1.53
1	7X	77	ALA	CA-CB	5.84	1.62	1.53
1	90	48	THR	N-CA	5.84	1.53	1.45
1	95	16	SER	C-N	5.84	1.41	1.34
1	9R	40	PHE	C-N	5.84	1.41	1.33
1	ap	9	GLN	N-CA	5.84	1.53	1.46
1	aA	143	ARG	CA-CB	5.84	1.62	1.53
1	aA	195	ASN	CA-CB	5.84	1.62	1.53
1	14	70	LYS	C-N	5.84	1.42	1.34
1	bv	39	MET	CA-C	5.84	1.60	1.52
1	ce	221	VAL	C-N	5.84	1.40	1.33
1	cg	35	GLU	CA-CB	5.84	1.63	1.53
1	cq	13	GLN	C-N	5.84	1.41	1.33
1	cP	33	SER	C-N	5.84	1.39	1.33
1	cR	67	GLN	N-CA	5.84	1.53	1.46
1	d1	137	GLY	C-N	-5.84	1.26	1.34
1	d9	35	GLU	C-N	5.84	1.41	1.34
1	dl	200	THR	CA-C	-5.84	1.45	1.52
1	eb	143	ARG	C-O	-5.84	1.17	1.24
1	ey	72	THR	C-N	5.84	1.41	1.34
1	eA	36	VAL	CA-CB	-5.84	1.47	1.54
1	eJ	218	CYS	C-N	5.84	1.41	1.33
1	fs	126	VAL	C-N	5.84	1.41	1.33
1	fO	71	GLU	CA-C	5.84	1.60	1.52
1	fV	114	GLN	N-CA	5.84	1.53	1.46
1	g3	96	MET	C-N	5.84	1.41	1.33
1	R	41	SER	CA-CB	5.84	1.62	1.53
1	V	92	GLU	N-CA	-5.84	1.40	1.45
1	ga	140	LYS	N-CA	-5.84	1.39	1.46
1	gR	104	ILE	C-N	-5.84	1.25	1.33
1	hl	120	HIS	CB-CG	5.84	1.58	1.50
1	hL	62	HIS	CA-CB	5.84	1.63	1.53
1	hP	216	THR	CA-C	5.84	1.60	1.52
1	iy	46	GLY	CA-C	-5.84	1.43	1.51
1	jJ	42	ALA	CA-C	-5.84	1.45	1.52
1	jZ	123	PRO	CA-C	-5.84	1.46	1.52
1	k9	78	ALA	N-CA	-5.84	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kp	75	GLU	N-CA	-5.84	1.39	1.46
1	kv	112	GLN	C-O	-5.84	1.17	1.24
1	kV	56	LEU	CA-CB	5.84	1.62	1.53
1	ld	92	GLU	CA-CB	5.84	1.61	1.53
1	2e	164	TYR	CA-C	5.84	1.60	1.52
1	2B	160	PRO	CA-C	-5.84	1.44	1.52
1	2N	92	GLU	CA-C	5.84	1.60	1.52
1	41	217	ALA	N-CA	-5.84	1.38	1.46
1	5A	75	GLU	N-CA	5.84	1.53	1.46
1	64	198	CYS	C-N	5.84	1.41	1.33
1	68	23	TRP	C-N	5.84	1.41	1.33
1	7H	18	ARG	CD-NE	5.84	1.54	1.46
1	91	17	PRO	CA-C	5.84	1.61	1.52
1	9S	12	HIS	CA-C	5.84	1.60	1.52
1	aJ	156	GLY	CA-C	-5.84	1.43	1.51
1	17	111	LEU	CA-C	5.84	1.60	1.52
1	bQ	77	ALA	C-N	5.84	1.41	1.33
1	d0	33	SER	CA-C	-5.84	1.46	1.52
1	1k	191	VAL	N-CA	-5.84	1.39	1.46
1	dX	90	PRO	CA-C	5.84	1.60	1.52
1	en	62	HIS	CG-ND1	5.84	1.44	1.38
1	f5	58	THR	CA-C	5.84	1.60	1.52
1	fw	54	THR	N-CA	-5.84	1.39	1.46
1	fK	21	ASN	C-N	5.84	1.41	1.33
1	h	58	THR	CA-C	5.84	1.60	1.52
1	3	84	HIS	C-O	5.84	1.26	1.23
1	8	183	ASN	CA-C	5.84	1.60	1.52
1	gn	154	ARG	C-N	5.84	1.42	1.33
1	gV	12	HIS	ND1-CE1	5.84	1.38	1.32
1	1J	78	ALA	CA-C	-5.84	1.45	1.52
1	i1	159	GLU	C-N	5.84	1.41	1.33
1	jc	35	GLU	N-CA	-5.84	1.38	1.46
1	ju	177	ALA	CA-C	-5.84	1.45	1.52
1	jU	185	MET	CA-CB	5.84	1.62	1.53
1	kJ	129	ILE	C-N	5.84	1.41	1.33
1	26	133	TRP	NE1-CE2	-5.84	1.31	1.37
1	ls	10	MET	CA-C	-5.84	1.45	1.52
1	2m	83	LEU	CA-CB	5.84	1.62	1.53
1	2p	116	GLY	CA-C	-5.84	1.45	1.52
1	2E	84	HIS	CA-C	5.84	1.60	1.53
1	2W	75	GLU	CA-C	5.84	1.60	1.52
1	3s	81	ASP	CA-CB	5.84	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3C	183	ASN	CA-CB	5.84	1.62	1.53
1	41	185	MET	C-N	5.84	1.41	1.33
1	4A	117	TRP	CA-CB	5.84	1.62	1.53
1	4H	124	ILE	CA-C	-5.84	1.46	1.52
1	52	132	ARG	CD-NE	5.84	1.54	1.46
1	52	164	TYR	CA-CB	5.84	1.62	1.53
1	5b	164	TYR	CA-C	-5.84	1.45	1.52
1	5j	157	PRO	CA-CB	5.84	1.62	1.53
1	5w	204	ALA	C-N	5.84	1.41	1.33
1	5C	210	THR	CA-C	-5.84	1.45	1.52
1	6o	124	ILE	N-CA	5.84	1.51	1.46
1	6r	16	SER	CA-C	5.84	1.59	1.53
1	6F	5	ASN	C-N	5.84	1.41	1.33
1	6Z	191	VAL	C-N	-5.84	1.25	1.33
1	7c	87	HIS	ND1-CE1	5.84	1.38	1.32
1	7D	183	ASN	N-CA	-5.84	1.39	1.46
1	8I	210	THR	N-CA	5.84	1.52	1.45
1	9n	34	PRO	N-CA	-5.84	1.39	1.47
1	9x	92	GLU	CA-CB	5.84	1.62	1.52
1	a6	187	GLU	CA-C	5.84	1.60	1.52
1	az	129	ILE	CA-C	-5.84	1.45	1.52
1	br	201	ILE	C-N	5.84	1.41	1.33
1	bR	115	ILE	CA-CB	-5.84	1.47	1.54
1	cl	108	THR	C-O	-5.84	1.16	1.24
1	cr	182	LYS	C-N	5.84	1.41	1.33
1	cN	209	ALA	CA-C	5.84	1.60	1.52
1	cW	80	TRP	C-N	5.84	1.41	1.33
1	cZ	210	THR	CA-C	5.84	1.60	1.52
1	ea	125	PRO	CA-CB	5.84	1.59	1.53
1	eB	68	MET	CA-CB	5.84	1.62	1.53
1	eW	45	GLU	C-N	5.84	1.39	1.33
1	f5	183	ASN	C-O	-5.84	1.16	1.24
1	fc	26	VAL	C-N	5.84	1.41	1.33
1	fh	171	THR	CA-C	5.84	1.60	1.52
1	fE	67	GLN	N-CA	5.84	1.53	1.46
1	e	155	GLN	N-CA	-5.84	1.38	1.46
1	o	166	ASP	CA-C	5.84	1.60	1.52
1	Q	62	HIS	CB-CG	5.84	1.58	1.50
1	T	230	VAL	CA-CB	-5.84	1.47	1.54
1	1C	55	MET	CA-C	5.84	1.60	1.52
1	gC	78	ALA	N-CA	-5.84	1.39	1.46
1	gX	15	ILE	CA-C	5.84	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hn	62	HIS	CE1-NE2	5.84	1.38	1.32
1	hn	99	PRO	CA-C	-5.84	1.45	1.52
1	hJ	215	MET	N-CA	-5.84	1.39	1.46
1	i4	184	TRP	CA-CB	5.84	1.62	1.53
1	i7	154	ARG	CA-CB	5.84	1.62	1.53
1	i9	189	LEU	C-N	5.84	1.41	1.33
1	iy	11	VAL	N-CA	-5.84	1.39	1.46
1	iM	190	LEU	C-N	5.84	1.41	1.33
1	iQ	153	ILE	C-N	5.84	1.41	1.33
1	jn	37	ILE	CA-C	5.84	1.59	1.52
1	jo	204	ALA	N-CA	5.84	1.53	1.46
1	jR	62	HIS	CB-CG	5.84	1.58	1.50
1	jU	94	GLY	N-CA	5.84	1.53	1.45
1	k2	57	ASN	CA-C	-5.84	1.44	1.52
1	k4	148	THR	C-N	5.84	1.41	1.33
1	kF	201	ILE	CA-CB	-5.84	1.46	1.54
1	lL	45	GLU	N-CA	5.84	1.53	1.46
1	2f	114	GLN	CA-C	-5.84	1.45	1.52
1	2X	3	VAL	C-N	5.84	1.42	1.33
1	3t	84	HIS	ND1-CE1	5.84	1.38	1.32
1	3T	18	ARG	CA-CB	5.84	1.62	1.53
1	44	165	VAL	CA-CB	-5.84	1.47	1.54
1	47	5	ASN	N-CA	-5.84	1.39	1.46
1	4p	72	THR	CA-C	-5.84	1.45	1.52
1	4r	84	HIS	CA-C	5.84	1.60	1.52
1	5C	209	ALA	N-CA	-5.84	1.38	1.45
1	5K	149	SER	C-O	5.84	1.30	1.23
1	62	120	HIS	C-N	5.84	1.38	1.33
1	6w	226	HIS	CD2-NE2	5.84	1.44	1.37
1	6D	58	THR	CA-C	5.84	1.60	1.52
1	6K	125	PRO	CA-CB	5.84	1.60	1.53
1	6P	62	HIS	ND1-CE1	5.84	1.38	1.32
1	6R	58	THR	CA-C	5.84	1.60	1.52
1	7f	75	GLU	N-CA	5.84	1.53	1.46
1	7g	220	GLY	CA-C	-5.84	1.42	1.51
1	7w	99	PRO	C-N	5.84	1.41	1.33
1	86	229	ARG	C-N	5.84	1.41	1.33
1	8f	85	PRO	CA-CB	5.84	1.62	1.53
1	8N	177	ALA	CA-C	5.84	1.60	1.52
1	8Q	165	VAL	CA-CB	-5.84	1.47	1.54
1	9d	157	PRO	CA-CB	5.84	1.62	1.53
1	9s	78	ALA	N-CA	-5.84	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9B	30	LYS	C-N	5.84	1.41	1.33
1	ay	4	GLN	CA-C	5.84	1.59	1.53
1	aA	186	THR	N-CA	5.84	1.53	1.46
1	aU	112	GLN	CA-C	5.84	1.60	1.52
1	b4	95	GLN	N-CA	5.84	1.53	1.46
1	be	37	ILE	CA-CB	5.84	1.57	1.53
1	bh	26	VAL	C-N	5.84	1.41	1.33
1	bx	184	TRP	CA-C	5.84	1.60	1.52
1	bG	103	ASP	C-O	-5.84	1.17	1.24
1	bH	140	LYS	C-O	-5.84	1.17	1.24
1	bP	74	ASN	C-N	5.84	1.41	1.33
1	c8	218	CYS	C-N	5.84	1.41	1.33
1	cd	20	LEU	CA-C	-5.84	1.45	1.52
1	cd	120	HIS	ND1-CE1	5.84	1.38	1.32
1	db	221	VAL	C-N	5.84	1.39	1.33
1	dA	187	GLU	CA-CB	5.84	1.62	1.53
1	dE	107	THR	N-CA	5.84	1.53	1.46
1	dO	76	GLU	CA-C	-5.84	1.45	1.52
1	e3	192	GLN	C-N	5.84	1.41	1.33
1	en	91	ILE	C-N	5.84	1.40	1.33
1	fR	149	SER	CA-C	-5.84	1.45	1.52
1	j	80	TRP	NE1-CE2	-5.84	1.31	1.37
1	z	188	THR	CA-C	5.84	1.60	1.52
1	W	142	VAL	C-N	5.84	1.41	1.33
1	gC	21	ASN	CA-CB	5.84	1.62	1.53
1	h4	118	MET	N-CA	-5.84	1.38	1.46
1	ht	59	VAL	CA-CB	-5.84	1.47	1.54
1	hw	158	LYS	CA-C	5.84	1.60	1.52
1	hB	19	THR	N-CA	5.84	1.53	1.46
1	hE	5	ASN	C-N	5.84	1.41	1.33
1	hN	147	PRO	C-N	5.84	1.41	1.33
1	id	9	GLN	CA-C	5.84	1.61	1.52
1	iC	94	GLY	N-CA	5.84	1.53	1.45
1	iG	112	GLN	CA-CB	5.84	1.62	1.53
1	iQ	90	PRO	C-N	5.84	1.42	1.33
1	j5	128	GLU	CA-C	-5.84	1.45	1.52
1	jI	73	ILE	CA-CB	5.84	1.61	1.54
1	jK	40	PHE	N-CA	-5.84	1.39	1.46
1	kC	158	LYS	CA-C	-5.84	1.45	1.52
1	lw	6	LEU	CA-CB	5.84	1.63	1.53
1	2g	118	MET	N-CA	-5.84	1.38	1.46
1	2Z	98	GLU	CA-C	5.84	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3r	72	THR	N-CA	5.84	1.53	1.46
1	4W	90	PRO	CA-C	-5.84	1.45	1.52
1	5U	184	TRP	CA-C	-5.84	1.45	1.52
1	69	137	GLY	C-N	5.84	1.41	1.33
1	6e	84	HIS	CD2-NE2	5.84	1.44	1.37
1	6k	230	VAL	C-N	5.84	1.41	1.33
1	6F	207	PRO	N-CA	-5.84	1.39	1.47
1	8d	133	TRP	NE1-CE2	5.84	1.43	1.37
1	8y	62	HIS	CA-CB	5.84	1.62	1.53
1	8D	84	HIS	CG-ND1	5.84	1.44	1.38
1	90	124	ILE	CA-C	-5.84	1.47	1.53
1	9D	22	ALA	CA-C	5.84	1.60	1.52
1	a0	133	TRP	NE1-CE2	-5.84	1.31	1.37
1	ah	90	PRO	N-CA	-5.84	1.39	1.47
1	16	99	PRO	CA-C	5.84	1.60	1.52
1	bB	37	ILE	CA-C	5.84	1.58	1.52
1	bG	157	PRO	N-CA	-5.84	1.40	1.47
1	cp	10	MET	N-CA	-5.84	1.39	1.45
1	dw	198	CYS	CA-C	-5.84	1.44	1.52
1	e5	161	PHE	CA-CB	5.84	1.62	1.53
1	es	219	GLN	N-CA	-5.84	1.38	1.46
1	1t	87	HIS	CA-C	5.84	1.61	1.53
1	1u	171	THR	N-CA	5.84	1.53	1.46
1	gv	90	PRO	N-CA	5.84	1.53	1.47
1	gG	162	ARG	CA-C	5.84	1.60	1.52
1	gJ	62	HIS	CB-CG	5.84	1.58	1.50
1	hw	155	GLN	CA-C	5.84	1.60	1.52
1	i3	77	ALA	C-O	-5.84	1.17	1.24
1	i8	145	TYR	CA-CB	5.84	1.61	1.53
1	jy	167	ARG	C-N	5.84	1.41	1.33
1	21	43	LEU	N-CA	5.84	1.53	1.46
1	kK	97	ARG	CA-CB	5.84	1.62	1.53
1	lb	42	ALA	C-N	5.84	1.42	1.33
1	2m	169	TYR	CA-CB	5.84	1.62	1.53
1	2M	188	THR	CA-C	-5.84	1.47	1.52
1	3b	147	PRO	C-N	5.84	1.41	1.33
1	3c	156	GLY	CA-C	5.84	1.60	1.51
1	3h	229	ARG	CA-C	5.84	1.59	1.52
1	3y	31	ALA	C-O	-5.84	1.18	1.24
1	3y	102	SER	CA-CB	5.84	1.63	1.53
1	4M	123	PRO	N-CD	5.84	1.55	1.47
1	5c	86	VAL	CA-CB	5.84	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5d	126	VAL	CA-C	5.84	1.60	1.52
1	5w	65	ALA	C-N	5.84	1.41	1.33
1	5B	140	LYS	N-CA	-5.84	1.39	1.46
1	5B	173	ARG	CA-C	5.84	1.60	1.52
1	5I	124	ILE	N-CA	5.84	1.51	1.46
1	64	214	MET	C-N	5.84	1.41	1.34
1	6c	87	HIS	CG-CD2	-5.84	1.29	1.35
1	6r	214	MET	CA-CB	5.84	1.62	1.53
1	6y	193	ASN	N-CA	-5.84	1.38	1.46
1	73	5	ASN	CA-C	-5.84	1.45	1.52
1	79	26	VAL	CA-C	-5.84	1.45	1.52
1	7a	174	ALA	N-CA	-5.84	1.39	1.46
1	7d	126	VAL	C-N	5.84	1.41	1.33
1	7g	55	MET	CG-SD	5.84	1.95	1.80
1	7s	126	VAL	N-CA	-5.84	1.39	1.46
1	7G	66	MET	CA-CB	-5.84	1.43	1.53
1	8i	111	LEU	CA-C	5.84	1.60	1.52
1	8Z	229	ARG	C-O	5.84	1.30	1.23
1	9A	132	ARG	CZ-NH2	-5.84	1.25	1.33
1	9Y	26	VAL	CA-CB	5.84	1.61	1.54
1	aa	157	PRO	CA-C	5.84	1.61	1.52
1	13	195	ASN	CA-CB	5.84	1.62	1.53
1	aU	84	HIS	C-N	5.84	1.41	1.33
1	bd	228	ALA	N-CA	5.84	1.53	1.46
1	bo	80	TRP	NE1-CE2	5.84	1.43	1.37
1	bu	206	GLY	C-N	5.84	1.41	1.33
1	c7	6	LEU	C-N	5.84	1.41	1.33
1	cb	154	ARG	CD-NE	5.84	1.54	1.46
1	cT	69	LEU	C-N	5.84	1.41	1.33
1	dc	85	PRO	CA-CB	5.84	1.61	1.53
1	dq	12	HIS	CG-ND1	5.84	1.44	1.38
1	dB	76	GLU	CA-CB	5.84	1.62	1.53
1	dC	117	TRP	CA-CB	5.84	1.62	1.53
1	dO	196	PRO	C-O	-5.84	1.17	1.24
1	dX	11	VAL	CA-CB	-5.84	1.47	1.54
1	et	213	GLU	CA-C	-5.84	1.45	1.52
1	ew	2	ILE	CA-C	5.84	1.59	1.52
1	eA	60	GLY	CA-C	-5.84	1.43	1.51
1	eK	82	ARG	N-CA	5.84	1.53	1.46
1	fd	59	VAL	N-CA	5.84	1.53	1.46
1	fj	182	LYS	CA-C	-5.84	1.45	1.52
1	fo	27	VAL	C-N	5.84	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g3	182	LYS	C-N	5.84	1.41	1.33
1	g6	156	GLY	C-N	5.84	1.41	1.34
1	j	210	THR	N-CA	5.84	1.53	1.45
1	1	167	ARG	CD-NE	5.84	1.54	1.46
1	q	132	ARG	CA-C	5.84	1.60	1.52
1	x	110	THR	CA-C	-5.84	1.45	1.53
1	D	82	ARG	CD-NE	5.84	1.54	1.46
1	G	96	MET	N-CA	5.84	1.53	1.46
1	gb	179	GLN	CA-C	5.83	1.60	1.52
1	gy	140	LYS	C-N	5.83	1.41	1.33
1	gD	45	GLU	N-CA	-5.83	1.39	1.46
1	h3	166	ASP	N-CA	5.83	1.53	1.46
1	hL	83	LEU	C-N	5.83	1.40	1.33
1	id	52	LEU	CA-C	-5.83	1.45	1.52
1	iD	84	HIS	CG-ND1	5.83	1.44	1.38
1	iY	29	GLU	C-O	5.83	1.31	1.23
1	jc	221	VAL	CA-C	-5.83	1.44	1.52
1	jh	97	ARG	CD-NE	5.83	1.54	1.46
1	kU	155	GLN	CA-C	-5.83	1.45	1.52
1	kX	66	MET	CA-CB	5.83	1.62	1.53
1	41	121	ASN	N-CA	5.83	1.53	1.46
1	46	87	HIS	CA-C	5.83	1.59	1.52
1	5n	41	SER	CA-CB	5.83	1.62	1.53
1	6f	37	ILE	CA-C	5.83	1.59	1.52
1	7U	11	VAL	N-CA	5.83	1.53	1.46
1	9E	124	ILE	CA-C	5.83	1.57	1.53
1	9U	173	ARG	CD-NE	5.83	1.54	1.46
1	aa	59	VAL	N-CA	5.83	1.53	1.46
1	bi	120	HIS	ND1-CE1	5.83	1.38	1.32
1	cG	56	LEU	CA-CB	5.83	1.62	1.53
1	1h	205	LEU	N-CA	-5.83	1.39	1.46
1	d4	26	VAL	C-O	-5.83	1.17	1.24
1	de	59	VAL	CA-C	5.83	1.59	1.52
1	dq	62	HIS	C-N	5.83	1.41	1.33
1	ey	179	GLN	N-CA	-5.83	1.39	1.46
1	eV	226	HIS	CE1-NE2	5.83	1.38	1.32
1	eZ	11	VAL	CA-CB	-5.83	1.47	1.54
1	fg	213	GLU	C-N	5.83	1.42	1.34
1	fi	194	ALA	CA-C	5.83	1.61	1.53
1	fo	12	HIS	CA-C	5.83	1.60	1.52
1	g0	20	LEU	N-CA	5.83	1.53	1.46
1	T	47	ALA	C-O	-5.83	1.16	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g8	95	GLN	N-CA	5.83	1.53	1.46
1	gl	62	HIS	CE1-NE2	5.83	1.38	1.32
1	gD	149	SER	N-CA	5.83	1.53	1.46
1	gM	226	HIS	CA-C	-5.83	1.45	1.52
1	hc	76	GLU	CA-C	5.83	1.60	1.52
1	hp	51	ASP	CA-C	5.83	1.60	1.52
1	hr	197	ASP	CA-CB	5.83	1.62	1.53
1	1L	213	GLU	CA-CB	5.83	1.62	1.53
1	hK	176	GLN	CA-C	-5.83	1.44	1.52
1	1M	228	ALA	C-N	5.83	1.41	1.33
1	iJ	29	GLU	C-N	5.83	1.41	1.33
1	iX	197	ASP	C-O	-5.83	1.16	1.24
1	jA	172	LEU	C-O	-5.83	1.17	1.24
1	kq	49	PRO	N-CA	5.83	1.55	1.47
1	kA	164	TYR	CA-CB	5.83	1.62	1.53
1	kK	226	HIS	CD2-NE2	5.83	1.44	1.37
1	kP	19	THR	N-CA	-5.83	1.39	1.46
1	l2	15	ILE	CA-CB	5.83	1.60	1.54
1	lr	9	GLN	C-N	5.83	1.41	1.33
1	lr	87	HIS	ND1-CE1	5.83	1.38	1.32
1	lr	173	ARG	CA-C	-5.83	1.44	1.52
1	2b	154	ARG	CA-C	5.83	1.60	1.52
1	2f	189	LEU	CA-CB	5.83	1.62	1.53
1	38	18	ARG	CA-CB	5.83	1.62	1.53
1	3X	122	PRO	N-CD	-5.83	1.39	1.47
1	49	178	SER	C-N	5.83	1.42	1.34
1	4I	59	VAL	CA-CB	5.83	1.60	1.54
1	4R	66	MET	CA-CB	5.83	1.62	1.53
1	4T	100	ARG	C-N	5.83	1.41	1.33
1	55	118	MET	N-CA	-5.83	1.38	1.46
1	5u	198	CYS	CA-C	-5.83	1.45	1.52
1	6r	88	ALA	CA-C	5.83	1.60	1.52
1	6B	7	GLN	N-CA	5.83	1.53	1.45
1	7q	226	HIS	CD2-NE2	-5.83	1.31	1.37
1	7T	128	GLU	N-CA	-5.83	1.39	1.46
1	7Z	144	MET	CA-CB	5.83	1.62	1.53
1	84	116	GLY	CA-C	-5.83	1.45	1.52
1	8r	218	CYS	CA-CB	5.83	1.62	1.53
1	9X	123	PRO	N-CA	-5.83	1.40	1.47
1	ak	135	ILE	N-CA	5.83	1.53	1.46
1	as	17	PRO	CA-C	-5.83	1.44	1.52
1	aw	55	MET	CA-CB	5.83	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aM	146	SER	CA-CB	5.83	1.62	1.53
1	b1	209	ALA	N-CA	-5.83	1.39	1.46
1	bf	109	SER	N-CA	5.83	1.53	1.46
1	bC	31	ALA	CA-CB	5.83	1.63	1.53
1	bL	138	LEU	CA-CB	5.83	1.62	1.53
1	bX	67	GLN	N-CA	-5.83	1.39	1.46
1	c8	5	ASN	C-N	5.83	1.41	1.33
1	cx	225	GLY	CA-C	-5.83	1.45	1.51
1	d2	225	GLY	C-N	5.83	1.41	1.33
1	d3	203	LYS	N-CA	-5.83	1.39	1.46
1	dc	219	GLN	C-N	5.83	1.38	1.33
1	dn	77	ALA	CA-C	5.83	1.60	1.52
1	dW	80	TRP	NE1-CE2	-5.83	1.31	1.37
1	es	111	LEU	C-N	5.83	1.42	1.34
1	eH	57	ASN	C-O	-5.83	1.17	1.24
1	eM	36	VAL	N-CA	-5.83	1.40	1.46
1	fC	198	CYS	CA-CB	5.83	1.62	1.53
1	fV	226	HIS	CA-CB	5.83	1.62	1.53
1	1A	154	ARG	CA-CB	5.83	1.64	1.53
1	e	62	HIS	N-CA	5.83	1.54	1.46
1	l	22	ALA	CA-C	5.83	1.60	1.52
1	n	227	LYS	N-CA	5.83	1.52	1.45
1	C	182	LYS	N-CA	-5.83	1.39	1.46
1	N	193	ASN	N-CA	-5.83	1.38	1.46
1	P	23	TRP	CA-CB	5.83	1.62	1.53
1	1C	66	MET	CA-CB	5.83	1.62	1.53
1	h2	180	GLU	CA-CB	5.83	1.62	1.53
1	he	90	PRO	C-N	5.83	1.40	1.33
1	hh	181	VAL	C-N	5.83	1.41	1.33
1	ht	52	LEU	C-O	-5.83	1.17	1.24
1	hZ	81	ASP	CA-CB	5.83	1.62	1.53
1	i1	141	ILE	CA-C	5.83	1.59	1.52
1	i6	207	PRO	CA-C	5.83	1.59	1.53
1	iK	227	LYS	N-CA	5.83	1.52	1.45
1	jq	85	PRO	CA-CB	5.83	1.61	1.53
1	jC	164	TYR	CA-C	-5.83	1.45	1.52
1	jE	75	GLU	CA-C	5.83	1.60	1.52
1	jL	115	ILE	C-N	5.83	1.41	1.33
1	jX	23	TRP	CD2-CE3	-5.83	1.30	1.40
1	ka	26	VAL	CA-CB	-5.83	1.47	1.54
1	ke	97	ARG	CD-NE	5.83	1.54	1.46
1	kj	62	HIS	CA-C	5.83	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ks	98	GLU	C-N	5.83	1.40	1.33
1	kH	179	GLN	N-CA	5.83	1.53	1.46
1	kR	101	GLY	N-CA	5.83	1.53	1.45
1	25	108	THR	N-CA	5.83	1.53	1.46
1	lf	7	GLN	C-N	5.83	1.42	1.33
1	29	45	GLU	C-O	-5.83	1.17	1.24
1	lR	120	HIS	C-N	5.83	1.38	1.33
1	2z	150	ILE	C-N	5.83	1.41	1.33
1	2A	33	SER	C-N	5.83	1.40	1.33
1	2E	104	ILE	N-CA	-5.83	1.39	1.46
1	2J	111	LEU	CA-C	-5.83	1.45	1.52
1	2S	226	HIS	N-CA	-5.83	1.38	1.46
1	36	21	ASN	C-N	5.83	1.41	1.33
1	3g	14	ALA	CA-C	-5.83	1.45	1.52
1	3u	18	ARG	CD-NE	5.83	1.54	1.46
1	3O	32	PHE	N-CA	5.83	1.53	1.46
1	4B	230	VAL	CA-CB	-5.83	1.46	1.54
1	4Q	36	VAL	CA-CB	-5.83	1.46	1.54
1	53	42	ALA	CA-CB	-5.83	1.44	1.53
1	5h	46	GLY	C-N	5.83	1.41	1.33
1	5A	102	SER	C-N	5.83	1.42	1.34
1	5C	95	GLN	CA-C	5.83	1.59	1.52
1	5I	226	HIS	CE1-NE2	5.83	1.38	1.32
1	5N	75	GLU	N-CA	-5.83	1.39	1.46
1	6q	159	GLU	CA-C	5.83	1.59	1.53
1	6v	67	GLN	CA-CB	5.83	1.62	1.53
1	8y	46	GLY	C-N	5.83	1.41	1.33
1	8X	132	ARG	CD-NE	5.83	1.54	1.46
1	9q	193	ASN	CA-C	5.83	1.60	1.52
1	9v	153	ILE	N-CA	5.83	1.53	1.46
1	9C	205	LEU	CA-C	-5.83	1.44	1.52
1	9J	170	LYS	C-O	-5.83	1.17	1.24
1	aA	184	TRP	CA-C	5.83	1.60	1.52
1	bL	53	ASN	C-N	5.83	1.41	1.33
1	cg	20	LEU	N-CA	-5.83	1.39	1.46
1	ct	77	ALA	N-CA	-5.83	1.39	1.46
1	ct	190	LEU	CA-C	5.83	1.60	1.52
1	cv	136	LEU	CA-CB	-5.83	1.44	1.53
1	cw	117	TRP	N-CA	5.83	1.53	1.46
1	d9	114	GLN	CA-CB	5.83	1.62	1.53
1	dL	209	ALA	C-N	5.83	1.41	1.33
1	er	92	GLU	CA-C	5.83	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fT	128	GLU	C-O	-5.83	1.17	1.24
1	k	120	HIS	C-N	-5.83	1.25	1.33
1	M	202	LEU	CA-C	5.83	1.60	1.52
1	7	115	ILE	C-N	5.83	1.42	1.33
1	gg	13	GLN	CA-C	5.83	1.59	1.52
1	hs	77	ALA	CA-C	5.83	1.60	1.52
1	ht	99	PRO	CA-C	5.83	1.59	1.52
1	hI	115	ILE	N-CA	5.83	1.53	1.46
1	i4	196	PRO	CA-C	-5.83	1.44	1.52
1	jd	35	GLU	N-CA	-5.83	1.38	1.46
1	jm	28	GLU	C-N	5.83	1.41	1.33
1	jP	37	ILE	CA-CB	5.83	1.57	1.54
1	k2	117	TRP	N-CA	5.83	1.53	1.46
1	ky	5	ASN	CA-C	-5.83	1.45	1.52
1	kR	67	GLN	CA-CB	5.83	1.62	1.53
1	lz	49	PRO	N-CA	-5.83	1.39	1.47
1	2Q	65	ALA	C-N	5.83	1.41	1.33
1	33	185	MET	N-CA	-5.83	1.39	1.46
1	3s	2	ILE	CA-CB	-5.83	1.47	1.54
1	6n	41	SER	N-CA	5.83	1.53	1.46
1	6x	132	ARG	C-O	5.83	1.30	1.24
1	6z	204	ALA	CA-C	-5.83	1.44	1.52
1	7o	73	ILE	CA-CB	5.83	1.61	1.54
1	8d	173	ARG	CA-C	5.83	1.60	1.52
1	aU	165	VAL	CA-CB	5.83	1.61	1.54
1	aZ	21	ASN	CA-CB	5.83	1.62	1.53
1	cZ	8	GLY	C-N	5.83	1.42	1.33
1	ds	217	ALA	C-O	-5.83	1.16	1.23
1	1l	223	GLY	N-CA	5.83	1.52	1.44
1	dB	143	ARG	CZ-NH2	-5.83	1.25	1.33
1	ea	62	HIS	CE1-NE2	5.83	1.38	1.32
1	ey	86	VAL	CA-C	5.83	1.59	1.52
1	eY	128	GLU	CA-C	5.83	1.60	1.52
1	g5	114	GLN	CA-CB	5.83	1.62	1.53
1	5	213	GLU	CA-CB	5.83	1.62	1.53
1	ge	139	ASN	C-N	5.83	1.41	1.33
1	gh	62	HIS	CE1-NE2	5.83	1.38	1.32
1	gh	213	GLU	N-CA	5.83	1.53	1.46
1	gn	44	SER	CA-C	-5.83	1.45	1.52
1	gO	122	PRO	C-N	-5.83	1.26	1.33
1	gX	61	GLY	CA-C	5.83	1.58	1.51
1	h8	81	ASP	CA-CB	5.83	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	he	113	GLU	C-N	5.83	1.41	1.33
1	1I	178	SER	CA-C	5.83	1.60	1.52
1	hl	153	ILE	N-CA	5.83	1.52	1.46
1	hE	15	ILE	CA-CB	-5.83	1.48	1.54
1	hZ	65	ALA	CA-C	5.83	1.60	1.52
1	ia	15	ILE	CA-C	5.83	1.59	1.52
1	ic	40	PHE	CA-CB	5.83	1.62	1.53
1	in	84	HIS	CE1-NE2	5.83	1.38	1.32
1	iv	108	THR	CA-C	-5.83	1.44	1.52
1	j6	176	GLN	CA-CB	5.83	1.61	1.53
1	jj	119	THR	CA-CB	-5.83	1.43	1.53
1	jO	123	PRO	CA-CB	5.83	1.61	1.53
1	jW	143	ARG	CZ-NH2	-5.83	1.25	1.33
1	k0	108	THR	CB-OG1	-5.83	1.34	1.43
1	k7	63	GLN	C-N	5.83	1.41	1.33
1	kt	201	ILE	N-CA	-5.83	1.39	1.46
1	kU	66	MET	CA-C	5.83	1.60	1.52
1	25	114	GLN	N-CA	5.83	1.53	1.46
1	ly	163	ASP	N-CA	-5.83	1.38	1.46
1	lF	70	LYS	C-N	5.83	1.41	1.33
1	lG	77	ALA	N-CA	-5.83	1.39	1.46
1	2d	87	HIS	C-O	-5.83	1.17	1.24
1	2d	149	SER	N-CA	5.83	1.53	1.45
1	2k	66	MET	N-CA	5.83	1.53	1.46
1	2v	46	GLY	N-CA	5.83	1.53	1.45
1	3b	110	THR	N-CA	5.83	1.52	1.45
1	3b	216	THR	C-N	5.83	1.41	1.33
1	3E	104	ILE	CA-C	5.83	1.60	1.52
1	47	49	PRO	CA-C	5.83	1.62	1.52
1	4l	24	VAL	C-N	5.83	1.41	1.33
1	4l	29	GLU	N-CA	5.83	1.53	1.46
1	4w	9	GLN	N-CA	-5.83	1.39	1.46
1	4C	129	ILE	CA-CB	5.83	1.61	1.54
1	55	9	GLN	CA-CB	5.83	1.62	1.53
1	5c	89	GLY	C-N	5.83	1.41	1.33
1	5i	59	VAL	CA-CB	-5.83	1.46	1.54
1	6k	18	ARG	NE-CZ	-5.83	1.26	1.33
1	6v	154	ARG	C-N	5.83	1.40	1.33
1	6H	55	MET	CA-CB	5.83	1.62	1.53
1	7k	212	GLU	N-CA	-5.83	1.39	1.46
1	7W	72	THR	CA-C	-5.83	1.45	1.52
1	83	43	LEU	CA-C	5.83	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8e	84	HIS	ND1-CE1	5.83	1.38	1.32
1	8B	167	ARG	N-CA	-5.83	1.39	1.46
1	8W	206	GLY	CA-C	5.83	1.60	1.51
1	96	157	PRO	CA-C	5.83	1.58	1.52
1	9d	143	ARG	CD-NE	5.83	1.54	1.46
1	9I	12	HIS	CG-CD2	5.83	1.42	1.35
1	9O	72	THR	C-N	5.83	1.41	1.33
1	af	98	GLU	C-N	-5.83	1.26	1.33
1	al	135	ILE	N-CA	-5.83	1.39	1.46
1	12	205	LEU	CA-CB	5.83	1.63	1.53
1	aG	40	PHE	CA-CB	5.83	1.62	1.53
1	aZ	140	LYS	CA-C	5.83	1.60	1.52
1	b5	75	GLU	CA-CB	5.83	1.62	1.53
1	bt	90	PRO	C-N	5.83	1.41	1.33
1	1d	93	PRO	CA-C	-5.83	1.44	1.52
1	cg	52	LEU	C-N	5.83	1.41	1.33
1	dm	38	PRO	N-CD	-5.83	1.39	1.47
1	dA	139	ASN	CA-CB	5.83	1.62	1.53
1	e2	184	TRP	NE1-CE2	5.83	1.43	1.37
1	eA	227	LYS	C-N	5.83	1.42	1.33
1	eY	190	LEU	C-O	-5.83	1.17	1.24
1	1u	73	ILE	CA-CB	-5.83	1.47	1.54
1	fG	46	GLY	CA-C	-5.83	1.43	1.51
1	b	95	GLN	C-O	-5.83	1.16	1.23
1	e	173	ARG	CD-NE	5.83	1.54	1.46
1	t	208	ALA	N-CA	-5.83	1.38	1.46
1	u	228	ALA	N-CA	-5.83	1.38	1.46
1	v	200	THR	CA-CB	-5.83	1.44	1.53
1	R	116	GLY	N-CA	5.83	1.53	1.45
1	T	26	VAL	CA-C	5.83	1.60	1.52
1	gE	52	LEU	CA-CB	5.83	1.62	1.53
1	gF	208	ALA	C-N	5.83	1.41	1.33
1	gK	161	PHE	C-N	5.83	1.41	1.33
1	gM	49	PRO	CA-CB	5.83	1.62	1.53
1	gS	162	ARG	CD-NE	5.83	1.54	1.46
1	gX	212	GLU	CA-C	5.83	1.60	1.52
1	h5	45	GLU	C-O	-5.83	1.16	1.23
1	hd	101	GLY	C-N	5.83	1.42	1.34
1	hj	121	ASN	CA-CB	5.83	1.60	1.53
1	hz	52	LEU	C-N	5.83	1.41	1.33
1	iz	174	ALA	C-N	5.83	1.41	1.33
1	iB	204	ALA	CA-CB	5.83	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iR	194	ALA	CA-CB	5.83	1.62	1.53
1	jy	183	ASN	C-O	-5.83	1.17	1.24
1	jH	145	TYR	CA-CB	5.83	1.61	1.53
1	jS	31	ALA	CA-C	-5.83	1.45	1.53
1	jS	153	ILE	CA-C	-5.83	1.46	1.52
1	jY	35	GLU	C-N	5.83	1.41	1.33
1	kb	124	ILE	CA-C	5.83	1.58	1.53
1	28	181	VAL	CA-C	-5.83	1.45	1.52
1	2b	18	ARG	CD-NE	5.83	1.54	1.46
1	5n	184	TRP	CA-CB	5.83	1.62	1.53
1	6p	180	GLU	N-CA	5.83	1.53	1.46
1	7E	74	ASN	CA-C	5.83	1.60	1.52
1	95	114	GLN	N-CA	-5.83	1.39	1.46
1	9U	112	GLN	CA-C	5.83	1.60	1.52
1	ai	99	PRO	CA-CB	5.83	1.61	1.53
1	au	84	HIS	CA-CB	5.83	1.61	1.52
1	bU	211	LEU	N-CA	5.83	1.53	1.46
1	ct	145	TYR	CA-C	5.83	1.60	1.52
1	cB	173	ARG	CA-C	-5.83	1.45	1.52
1	d0	92	GLU	C-N	5.83	1.40	1.33
1	dS	104	ILE	C-N	5.83	1.42	1.33
1	1o	162	ARG	N-CA	-5.83	1.39	1.46
1	1t	150	ILE	CA-CB	-5.83	1.47	1.54
1	eU	70	LYS	C-N	5.83	1.41	1.33
1	fy	211	LEU	C-N	5.83	1.41	1.33
1	fM	127	GLY	N-CA	5.83	1.53	1.45
1	1	182	LYS	CA-CB	5.83	1.62	1.53
1	gG	50	GLN	CA-CB	5.83	1.62	1.53
1	gK	87	HIS	CA-CB	5.83	1.63	1.53
1	gX	26	VAL	CA-CB	5.83	1.62	1.54
1	hJ	181	VAL	N-CA	5.83	1.53	1.46
1	1L	208	ALA	N-CA	-5.83	1.39	1.46
1	hR	106	GLY	N-CA	-5.83	1.37	1.45
1	i6	54	THR	C-N	5.83	1.41	1.33
1	1P	152	ASP	N-CA	-5.83	1.39	1.46
1	iM	179	GLN	N-CA	5.83	1.53	1.46
1	iN	52	LEU	CA-C	-5.83	1.45	1.52
1	iN	200	THR	C-N	5.83	1.41	1.33
1	iP	136	LEU	N-CA	-5.83	1.39	1.46
1	ja	159	GLU	CA-C	5.83	1.60	1.52
1	jy	62	HIS	CD2-NE2	-5.83	1.31	1.37
1	1X	62	HIS	CG-ND1	5.83	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jH	63	GLN	CA-C	5.83	1.60	1.52
1	jI	105	ALA	N-CA	-5.83	1.38	1.46
1	jN	25	LYS	CA-C	-5.83	1.45	1.52
1	jR	113	GLU	C-N	5.83	1.41	1.33
1	ks	215	MET	CA-CB	5.83	1.64	1.53
1	kH	138	LEU	C-N	5.83	1.41	1.33
1	lz	182	LYS	N-CA	-5.83	1.38	1.46
1	32	41	SER	N-CA	5.83	1.53	1.46
1	3X	10	MET	CA-C	5.83	1.60	1.52
1	47	153	ILE	N-CA	-5.83	1.39	1.46
1	4O	41	SER	N-CA	-5.83	1.39	1.46
1	4S	96	MET	CA-CB	5.83	1.61	1.53
1	5v	97	ARG	NE-CZ	-5.83	1.26	1.33
1	6i	171	THR	C-O	-5.83	1.17	1.24
1	6o	164	TYR	N-CA	5.83	1.53	1.46
1	7q	115	ILE	N-CA	5.83	1.53	1.46
1	7C	21	ASN	CA-C	5.83	1.60	1.52
1	8J	156	GLY	N-CA	5.83	1.50	1.43
1	97	40	PHE	C-O	-5.83	1.17	1.24
1	a7	163	ASP	CA-C	-5.83	1.45	1.52
1	ak	35	GLU	CA-C	5.83	1.61	1.52
1	aE	52	LEU	CA-CB	-5.83	1.44	1.53
1	aF	75	GLU	C-N	5.83	1.41	1.33
1	aL	115	ILE	C-N	-5.83	1.27	1.33
1	aV	18	ARG	CD-NE	5.83	1.54	1.46
1	ch	178	SER	CA-CB	5.83	1.62	1.53
1	ct	133	TRP	C-O	-5.83	1.17	1.24
1	dD	105	ALA	C-N	5.83	1.41	1.33
1	dW	112	GLN	CA-CB	5.83	1.62	1.53
1	eo	5	ASN	N-CA	-5.83	1.38	1.46
1	fi	151	LEU	N-CA	-5.83	1.39	1.46
1	fK	181	VAL	C-N	5.83	1.41	1.33
1	g5	136	LEU	C-N	5.83	1.40	1.33
1	g7	54	THR	C-N	5.83	1.42	1.34
1	p	39	MET	N-CA	5.83	1.53	1.46
1	gc	56	LEU	CA-C	5.82	1.60	1.52
1	gk	113	GLU	CA-C	5.82	1.60	1.52
1	gF	221	VAL	N-CA	-5.82	1.39	1.46
1	h0	193	ASN	CA-C	5.82	1.60	1.52
1	h8	28	GLU	CA-CB	-5.82	1.43	1.53
1	hF	31	ALA	CA-CB	5.82	1.63	1.53
1	ii	141	ILE	C-N	5.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ik	37	ILE	CA-CB	5.82	1.57	1.54
1	iR	162	ARG	CA-CB	5.82	1.62	1.53
1	ja	84	HIS	CD2-NE2	5.82	1.44	1.37
1	jB	229	ARG	C-N	5.82	1.41	1.33
1	jJ	87	HIS	CA-C	-5.82	1.45	1.52
1	jU	161	PHE	N-CA	-5.82	1.39	1.46
1	k4	100	ARG	CD-NE	5.82	1.54	1.46
1	kd	206	GLY	C-N	-5.82	1.26	1.33
1	kj	158	LYS	N-CA	5.82	1.53	1.46
1	kv	166	ASP	CA-CB	5.82	1.62	1.53
1	kF	151	LEU	CA-CB	5.82	1.64	1.53
1	lw	87	HIS	CD2-NE2	5.82	1.44	1.37
1	lA	159	GLU	CA-CB	5.82	1.61	1.53
1	lP	132	ARG	N-CA	5.82	1.53	1.46
1	lP	178	SER	N-CA	5.82	1.53	1.45
1	2n	31	ALA	CA-CB	5.82	1.63	1.53
1	34	98	GLU	CA-C	5.82	1.59	1.52
1	3p	96	MET	CA-C	5.82	1.60	1.52
1	3F	96	MET	CA-CB	5.82	1.61	1.53
1	4f	165	VAL	N-CA	5.82	1.53	1.46
1	4N	125	PRO	CA-CB	5.82	1.61	1.53
1	5e	30	LYS	N-CA	-5.82	1.38	1.46
1	5e	163	ASP	N-CA	-5.82	1.39	1.46
1	5x	29	GLU	C-N	-5.82	1.26	1.33
1	5y	82	ARG	CZ-NH2	-5.82	1.25	1.33
1	5Z	15	ILE	CA-C	5.82	1.59	1.52
1	6x	195	ASN	CA-CB	5.82	1.62	1.53
1	6G	44	SER	N-CA	5.82	1.52	1.46
1	74	124	ILE	CA-CB	5.82	1.58	1.54
1	7U	136	LEU	C-N	5.82	1.41	1.33
1	84	150	ILE	C-O	-5.82	1.17	1.24
1	8d	87	HIS	CD2-NE2	5.82	1.44	1.37
1	8H	64	ALA	N-CA	5.82	1.53	1.46
1	8O	62	HIS	CE1-NE2	5.82	1.38	1.32
1	97	37	ILE	N-CA	-5.82	1.39	1.46
1	9z	223	GLY	C-N	5.82	1.40	1.33
1	9X	185	MET	C-O	-5.82	1.16	1.24
1	a1	164	TYR	CA-C	5.82	1.60	1.52
1	a6	134	ILE	N-CA	5.82	1.53	1.46
1	av	153	ILE	N-CA	5.82	1.53	1.46
1	aI	18	ARG	CD-NE	5.82	1.54	1.46
1	aK	79	GLU	N-CA	-5.82	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aV	218	CYS	CA-C	5.82	1.61	1.53
1	15	78	ALA	N-CA	-5.82	1.39	1.46
1	b0	130	TYR	CA-C	5.82	1.60	1.52
1	b2	17	PRO	C-N	5.82	1.41	1.33
1	bh	189	LEU	CA-C	5.82	1.60	1.52
1	bi	214	MET	N-CA	5.82	1.53	1.46
1	bu	99	PRO	C-N	5.82	1.42	1.33
1	bz	90	PRO	CA-C	-5.82	1.44	1.52
1	bH	71	GLU	N-CA	-5.82	1.39	1.46
1	c4	86	VAL	CA-CB	5.82	1.63	1.54
1	c9	93	PRO	CA-C	5.82	1.60	1.52
1	cC	191	VAL	N-CA	-5.82	1.39	1.46
1	cK	142	VAL	N-CA	-5.82	1.39	1.46
1	cN	158	LYS	CA-C	-5.82	1.44	1.52
1	cX	80	TRP	NE1-CE2	-5.82	1.31	1.37
1	d2	77	ALA	N-CA	-5.82	1.39	1.46
1	1j	20	LEU	CA-CB	5.82	1.62	1.53
1	1k	12	HIS	ND1-CE1	5.82	1.38	1.32
1	ds	191	VAL	CA-CB	-5.82	1.47	1.54
1	eA	124	ILE	CA-C	-5.82	1.48	1.53
1	f8	1	PRO	N-CD	5.82	1.55	1.47
1	fg	92	GLU	CA-C	5.82	1.60	1.53
1	fm	51	ASP	CA-CB	5.82	1.62	1.53
1	fW	164	TYR	CA-C	5.82	1.60	1.52
1	1A	133	TRP	CA-C	5.82	1.60	1.52
1	i	154	ARG	NE-CZ	-5.82	1.26	1.33
1	m	166	ASP	CA-CB	5.82	1.62	1.53
1	D	185	MET	CA-C	-5.82	1.45	1.52
1	H	147	PRO	CA-C	-5.82	1.44	1.52
1	X	227	LYS	C-O	-5.82	1.17	1.23
1	g8	196	PRO	N-CA	-5.82	1.40	1.47
1	h9	106	GLY	C-N	5.82	1.41	1.33
1	he	87	HIS	CD2-NE2	5.82	1.44	1.37
1	hq	127	GLY	CA-C	-5.82	1.45	1.52
1	hR	86	VAL	N-CA	5.82	1.53	1.46
1	ie	131	LYS	C-N	5.82	1.41	1.33
1	iz	72	THR	CA-C	-5.82	1.45	1.52
1	1S	178	SER	CA-CB	5.82	1.63	1.53
1	iV	100	ARG	CD-NE	5.82	1.54	1.46
1	jx	155	GLN	CA-C	-5.82	1.45	1.52
1	jI	26	VAL	CA-C	5.82	1.60	1.52
1	kr	88	ALA	CA-C	-5.82	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l6	18	ARG	CA-C	-5.82	1.45	1.52
1	2b	132	ARG	N-CA	-5.82	1.39	1.46
1	49	12	HIS	CA-CB	5.82	1.62	1.53
1	55	161	PHE	CA-CB	5.82	1.62	1.53
1	5i	218	CYS	CA-CB	5.82	1.62	1.53
1	5q	187	GLU	CA-C	5.82	1.60	1.52
1	5x	59	VAL	CA-CB	5.82	1.60	1.53
1	5E	204	ALA	CA-C	-5.82	1.45	1.52
1	5W	121	ASN	C-N	5.82	1.45	1.34
1	71	95	GLN	CA-C	-5.82	1.45	1.52
1	76	5	ASN	CA-CB	5.82	1.63	1.53
1	7H	195	ASN	N-CA	-5.82	1.39	1.45
1	94	90	PRO	CA-C	-5.82	1.45	1.52
1	9w	67	GLN	CA-C	5.82	1.60	1.52
1	9V	230	VAL	CA-CB	5.82	1.60	1.54
1	ai	49	PRO	N-CA	-5.82	1.39	1.47
1	b2	174	ALA	C-N	5.82	1.41	1.33
1	bt	120	HIS	CG-ND1	-5.82	1.31	1.38
1	bQ	95	GLN	N-CA	-5.82	1.39	1.45
1	c5	140	LYS	C-N	5.82	1.41	1.33
1	ch	98	GLU	CA-CB	5.82	1.62	1.53
1	cl	201	ILE	N-CA	5.82	1.54	1.46
1	dm	197	ASP	CA-CB	5.82	1.64	1.53
1	dp	219	GLN	C-N	5.82	1.39	1.33
1	dy	173	ARG	CA-CB	5.82	1.62	1.53
1	dz	135	ILE	C-O	-5.82	1.17	1.24
1	eQ	7	GLN	CA-C	-5.82	1.44	1.52
1	fD	136	LEU	CA-CB	5.82	1.62	1.53
1	c	95	GLN	CA-CB	-5.82	1.44	1.53
1	f	171	THR	C-N	5.82	1.41	1.33
1	g	48	THR	N-CA	-5.82	1.37	1.45
1	m	57	ASN	C-N	5.82	1.41	1.33
1	gm	85	PRO	CA-CB	5.82	1.60	1.53
1	gz	147	PRO	CA-C	5.82	1.60	1.52
1	gN	96	MET	CA-CB	5.82	1.62	1.53
1	hz	162	ARG	CD-NE	5.82	1.54	1.46
1	hR	154	ARG	CA-C	5.82	1.59	1.52
1	iM	145	TYR	C-N	5.82	1.38	1.33
1	iS	120	HIS	CA-CB	5.82	1.62	1.53
1	ja	222	GLY	N-CA	-5.82	1.37	1.45
1	jG	159	GLU	CA-C	5.82	1.60	1.52
1	jW	153	ILE	CA-CB	5.82	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kv	218	CYS	C-N	5.82	1.41	1.33
1	la	117	TRP	CA-C	5.82	1.60	1.52
1	lc	33	SER	CA-C	5.82	1.59	1.52
1	ls	81	ASP	CA-C	5.82	1.60	1.52
1	lF	79	GLU	C-N	5.82	1.41	1.34
1	2q	228	ALA	N-CA	-5.82	1.38	1.46
1	2x	230	VAL	CA-C	5.82	1.60	1.52
1	2F	159	GLU	C-N	5.82	1.40	1.33
1	34	48	THR	CA-CB	5.82	1.62	1.52
1	39	184	TRP	NE1-CE2	-5.82	1.31	1.37
1	3i	87	HIS	CA-CB	5.82	1.61	1.53
1	3o	62	HIS	CE1-NE2	5.82	1.38	1.32
1	42	64	ALA	C-N	5.82	1.41	1.33
1	4d	1	PRO	CA-C	-5.82	1.40	1.52
1	4y	183	ASN	CA-CB	5.82	1.62	1.53
1	4D	92	GLU	C-N	5.82	1.40	1.33
1	4L	164	TYR	C-N	5.82	1.41	1.33
1	52	48	THR	C-N	-5.82	1.25	1.33
1	5h	26	VAL	C-N	-5.82	1.26	1.33
1	5u	130	TYR	CA-CB	5.82	1.62	1.53
1	5w	19	THR	N-CA	5.82	1.53	1.46
1	5R	44	SER	C-N	5.82	1.41	1.33
1	5Y	90	PRO	N-CA	5.82	1.54	1.47
1	67	3	VAL	CA-CB	-5.82	1.47	1.54
1	6O	193	ASN	CA-C	5.82	1.60	1.52
1	78	75	GLU	CA-C	5.82	1.60	1.52
1	7y	162	ARG	CA-CB	5.82	1.62	1.53
1	7N	62	HIS	CA-C	-5.82	1.44	1.53
1	8p	103	ASP	CA-CB	5.82	1.62	1.53
1	8Z	98	GLU	CA-CB	5.82	1.62	1.53
1	9a	129	ILE	CA-CB	5.82	1.61	1.54
1	9v	107	THR	C-O	-5.82	1.16	1.24
1	9S	59	VAL	CA-C	-5.82	1.45	1.52
1	aj	69	LEU	CA-CB	5.82	1.62	1.53
1	ao	39	MET	C-N	5.82	1.41	1.33
1	aG	226	HIS	CA-C	5.82	1.60	1.52
1	b3	146	SER	CA-C	5.82	1.60	1.53
1	cj	11	VAL	CA-CB	-5.82	1.46	1.54
1	cm	192	GLN	C-O	-5.82	1.17	1.24
1	cR	199	LYS	CA-CB	5.82	1.62	1.53
1	1k	102	SER	N-CA	-5.82	1.38	1.46
1	dw	130	TYR	C-N	5.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ev	90	PRO	N-CA	-5.82	1.40	1.47
1	1r	62	HIS	CE1-NE2	5.82	1.38	1.32
1	eG	14	ALA	N-CA	5.82	1.53	1.46
1	eR	148	THR	CB-OG1	-5.82	1.34	1.43
1	fg	188	THR	N-CA	5.82	1.52	1.46
1	fi	29	GLU	C-N	-5.82	1.25	1.33
1	fj	20	LEU	C-O	-5.82	1.17	1.24
1	fv	28	GLU	C-O	5.82	1.30	1.24
1	fx	21	ASN	CA-CB	5.82	1.62	1.53
1	fI	168	PHE	N-CA	5.82	1.53	1.46
1	fK	70	LYS	CA-CB	5.82	1.62	1.53
1	1z	78	ALA	N-CA	-5.82	1.39	1.46
1	g7	167	ARG	CA-C	-5.82	1.45	1.52
1	0	16	SER	CA-C	5.82	1.59	1.53
1	K	73	ILE	CA-C	-5.82	1.43	1.52
1	M	230	VAL	C-N	5.82	1.41	1.33
1	N	206	GLY	CA-C	5.82	1.60	1.51
1	X	90	PRO	N-CA	5.82	1.54	1.47
1	5	182	LYS	C-O	-5.82	1.17	1.24
1	gF	112	GLN	CA-CB	5.82	1.62	1.53
1	hh	117	TRP	CA-C	5.82	1.60	1.52
1	hl	4	GLN	C-O	-5.82	1.16	1.24
1	hP	120	HIS	CE1-NE2	-5.82	1.26	1.32
1	ia	190	LEU	N-CA	5.82	1.53	1.46
1	iC	150	ILE	CA-C	5.82	1.60	1.52
1	ju	32	PHE	N-CA	5.82	1.53	1.46
1	l2	62	HIS	CG-ND1	5.82	1.44	1.38
1	la	158	LYS	N-CA	-5.82	1.39	1.46
1	lg	88	ALA	CA-C	5.82	1.60	1.52
1	li	10	MET	CA-C	5.82	1.59	1.52
1	lE	202	LEU	CA-C	5.82	1.60	1.52
1	2q	93	PRO	CA-C	5.82	1.60	1.52
1	2K	180	GLU	N-CA	-5.82	1.39	1.46
1	4b	103	ASP	CA-C	5.82	1.60	1.52
1	5c	228	ALA	N-CA	-5.82	1.39	1.46
1	7z	93	PRO	C-N	5.82	1.42	1.33
1	96	169	TYR	C-N	5.82	1.41	1.33
1	9e	163	ASP	CA-C	5.82	1.60	1.52
1	9y	177	ALA	C-N	5.82	1.41	1.33
1	au	26	VAL	CA-CB	-5.82	1.47	1.54
1	cg	151	LEU	CA-C	-5.82	1.44	1.52
1	d1	10	MET	C-N	5.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dV	23	TRP	CA-CB	5.82	1.62	1.53
1	er	62	HIS	CA-CB	5.82	1.62	1.53
1	eM	202	LEU	N-CA	5.82	1.53	1.46
1	fZ	208	ALA	CA-C	5.82	1.60	1.52
1	H	120	HIS	ND1-CE1	5.82	1.38	1.32
1	K	133	TRP	C-N	-5.82	1.26	1.33
1	gC	92	GLU	CA-C	5.82	1.60	1.53
1	gW	113	GLU	CA-CB	5.82	1.62	1.53
1	h7	184	TRP	N-CA	5.82	1.53	1.46
1	h8	159	GLU	CA-C	-5.82	1.46	1.52
1	hp	217	ALA	CA-C	5.82	1.60	1.52
1	ik	75	GLU	CA-CB	5.82	1.62	1.53
1	io	154	ARG	CA-C	5.82	1.59	1.52
1	iB	163	ASP	CA-CB	5.82	1.62	1.53
1	iI	84	HIS	C-O	-5.82	1.19	1.24
1	iL	82	ARG	N-CA	-5.82	1.38	1.46
1	1S	117	TRP	CA-CB	5.82	1.62	1.53
1	iV	189	LEU	C-N	5.82	1.41	1.33
1	jb	125	PRO	N-CA	5.82	1.57	1.48
1	jI	9	GLN	CA-C	-5.82	1.45	1.52
1	jL	113	GLU	C-N	5.82	1.41	1.33
1	ke	24	VAL	C-N	5.82	1.41	1.33
1	ko	113	GLU	C-N	-5.82	1.26	1.33
1	l5	81	ASP	N-CA	-5.82	1.39	1.46
1	lp	142	VAL	CA-C	-5.82	1.43	1.52
1	lr	168	PHE	CA-CB	5.82	1.62	1.53
1	lv	41	SER	CA-C	-5.82	1.45	1.52
1	2g	199	LYS	CA-CB	5.82	1.62	1.53
1	2o	55	MET	C-N	5.82	1.41	1.33
1	2K	207	PRO	CA-CB	-5.82	1.45	1.53
1	32	183	ASN	CA-CB	5.82	1.62	1.53
1	3m	17	PRO	N-CD	-5.82	1.39	1.47
1	3v	99	PRO	N-CA	-5.82	1.40	1.47
1	3X	123	PRO	C-N	5.82	1.39	1.33
1	48	140	LYS	CA-C	-5.82	1.45	1.52
1	4b	118	MET	CA-CB	5.82	1.62	1.53
1	4b	155	GLN	C-O	-5.82	1.17	1.23
1	4e	103	ASP	N-CA	5.82	1.53	1.46
1	4t	81	ASP	CA-CB	5.82	1.62	1.53
1	4w	130	TYR	CA-CB	5.82	1.62	1.53
1	4A	107	THR	N-CA	-5.82	1.38	1.46
1	4W	71	GLU	C-N	5.82	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5c	216	THR	N-CA	5.82	1.53	1.46
1	5I	196	PRO	CA-C	5.82	1.60	1.52
1	62	121	ASN	CA-CB	5.82	1.60	1.53
1	6h	164	TYR	N-CA	5.82	1.53	1.46
1	6l	172	LEU	CA-CB	5.82	1.62	1.53
1	6l	185	MET	CA-CB	5.82	1.62	1.53
1	7m	111	LEU	C-O	-5.82	1.17	1.24
1	7z	29	GLU	N-CA	-5.82	1.39	1.46
1	8A	211	LEU	C-N	5.82	1.42	1.34
1	8F	42	ALA	N-CA	-5.82	1.39	1.46
1	91	47	ALA	C-O	5.82	1.31	1.24
1	9h	124	ILE	CA-CB	5.82	1.59	1.53
1	9t	97	ARG	N-CA	5.82	1.53	1.46
1	9Z	187	GLU	CA-C	-5.82	1.45	1.52
1	12	2	ILE	CA-CB	5.82	1.60	1.54
1	aA	124	ILE	N-CA	-5.82	1.41	1.46
1	aM	228	ALA	CA-C	5.82	1.60	1.52
1	bh	152	ASP	C-N	5.82	1.41	1.33
1	17	62	HIS	CE1-NE2	5.82	1.38	1.32
1	bk	84	HIS	ND1-CE1	5.82	1.38	1.32
1	by	72	THR	CA-C	-5.82	1.45	1.52
1	bY	149	SER	N-CA	5.82	1.53	1.46
1	cd	162	ARG	N-CA	-5.82	1.39	1.46
1	cJ	143	ARG	CD-NE	5.82	1.54	1.46
1	cV	89	GLY	CA-C	5.82	1.60	1.51
1	d2	14	ALA	C-N	5.82	1.40	1.33
1	d4	161	PHE	CA-CB	5.82	1.62	1.53
1	d7	57	ASN	N-CA	-5.82	1.38	1.46
1	dp	198	CYS	C-N	5.82	1.42	1.33
1	dR	138	LEU	CA-CB	5.82	1.62	1.53
1	1p	64	ALA	CA-C	5.82	1.60	1.52
1	ey	23	TRP	C-N	5.82	1.41	1.33
1	eT	160	PRO	N-CA	-5.82	1.39	1.47
1	eX	187	GLU	N-CA	-5.82	1.39	1.46
1	1u	87	HIS	CA-C	-5.82	1.45	1.52
1	f0	99	PRO	CA-C	5.82	1.59	1.52
1	fb	226	HIS	ND1-CE1	5.82	1.38	1.32
1	fq	226	HIS	CB-CG	-5.82	1.42	1.50
1	fM	184	TRP	NE1-CE2	5.82	1.43	1.37
1	fP	140	LYS	C-N	5.82	1.41	1.33
1	fT	122	PRO	N-CD	-5.82	1.39	1.47
1	fT	154	ARG	CD-NE	5.82	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fW	113	GLU	C-N	-5.82	1.26	1.33
1	fZ	13	GLN	N-CA	-5.82	1.38	1.46
1	fZ	138	LEU	CA-C	5.82	1.60	1.52
1	F	82	ARG	CA-C	-5.82	1.45	1.52
1	gD	87	HIS	CA-C	-5.82	1.45	1.52
1	gM	126	VAL	N-CA	-5.82	1.39	1.46
1	hS	88	ALA	N-CA	-5.82	1.37	1.45
1	ir	152	ASP	CA-CB	5.82	1.63	1.53
1	ix	84	HIS	CG-ND1	5.82	1.44	1.38
1	j7	14	ALA	N-CA	-5.82	1.38	1.46
1	jb	120	HIS	CG-ND1	5.82	1.44	1.38
1	jm	146	SER	CA-CB	5.82	1.61	1.53
1	jt	186	THR	CA-C	-5.82	1.45	1.52
1	jI	51	ASP	N-CA	5.82	1.53	1.46
1	jQ	146	SER	CA-C	5.82	1.60	1.52
1	kq	44	SER	CA-CB	5.82	1.61	1.53
1	38	124	ILE	CA-C	5.82	1.59	1.52
1	3S	12	HIS	CD2-NE2	5.82	1.44	1.37
1	3Z	120	HIS	C-N	5.82	1.38	1.33
1	4c	101	GLY	C-N	5.82	1.42	1.33
1	4H	150	ILE	CA-CB	-5.82	1.46	1.54
1	4L	39	MET	CA-CB	5.82	1.62	1.53
1	5b	35	GLU	CA-C	-5.82	1.44	1.52
1	5c	76	GLU	CA-C	5.82	1.60	1.52
1	5h	40	PHE	CA-CB	5.82	1.62	1.53
1	5B	65	ALA	N-CA	-5.82	1.39	1.46
1	70	98	GLU	C-N	5.82	1.40	1.33
1	7n	83	LEU	N-CA	5.82	1.53	1.46
1	7t	191	VAL	CA-C	5.82	1.59	1.52
1	7u	113	GLU	CA-C	5.82	1.60	1.52
1	7A	70	LYS	CA-C	-5.82	1.45	1.52
1	7N	121	ASN	CA-C	-5.82	1.46	1.52
1	7V	226	HIS	ND1-CE1	5.82	1.38	1.32
1	85	108	THR	C-N	5.82	1.42	1.33
1	8v	230	VAL	C-N	5.82	1.41	1.33
1	8Q	124	ILE	CA-C	-5.82	1.48	1.53
1	99	72	THR	CA-C	-5.82	1.45	1.52
1	9n	95	GLN	CA-C	5.82	1.60	1.52
1	9K	60	GLY	CA-C	-5.82	1.43	1.51
1	9U	215	MET	CA-CB	5.82	1.62	1.53
1	a5	135	ILE	C-N	5.82	1.41	1.34
1	aL	68	MET	N-CA	-5.82	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b3	44	SER	CA-CB	5.82	1.60	1.52
1	16	62	HIS	C-O	-5.82	1.14	1.24
1	bs	149	SER	CA-C	-5.82	1.45	1.52
1	bR	10	MET	C-N	5.82	1.41	1.33
1	c8	99	PRO	CA-C	5.82	1.58	1.52
1	cd	134	ILE	CA-C	5.82	1.59	1.52
1	cq	154	ARG	N-CA	-5.82	1.38	1.46
1	cM	180	GLU	C-N	5.82	1.41	1.33
1	d3	218	CYS	CA-C	-5.82	1.45	1.52
1	dE	12	HIS	CA-CB	5.82	1.62	1.53
1	1m	200	THR	N-CA	5.82	1.53	1.46
1	eB	200	THR	N-CA	5.82	1.53	1.46
1	fn	185	MET	C-N	5.82	1.41	1.33
1	fn	188	THR	N-CA	5.82	1.53	1.46
1	fs	110	THR	C-N	5.82	1.41	1.33
1	fQ	84	HIS	ND1-CE1	5.82	1.38	1.32
1	i	10	MET	CA-C	5.82	1.60	1.52
1	L	23	TRP	C-O	-5.82	1.17	1.24
1	S	202	LEU	CA-C	5.82	1.60	1.52
1	h5	189	LEU	CA-CB	-5.81	1.44	1.53
1	hR	23	TRP	NE1-CE2	-5.81	1.31	1.37
1	1M	155	GLN	CA-CB	5.81	1.63	1.53
1	ix	223	GLY	N-CA	5.81	1.52	1.44
1	jC	195	ASN	CA-CB	5.81	1.61	1.53
1	l2	179	GLN	N-CA	-5.81	1.39	1.46
1	l3	219	GLN	C-N	5.81	1.40	1.33
1	lg	100	ARG	CD-NE	5.81	1.54	1.46
1	lt	100	ARG	N-CA	5.81	1.53	1.45
1	lI	24	VAL	CA-CB	-5.81	1.47	1.54
1	2d	117	TRP	NE1-CE2	-5.81	1.31	1.37
1	3T	221	VAL	N-CA	-5.81	1.39	1.46
1	4B	14	ALA	C-N	-5.81	1.26	1.33
1	4F	47	ALA	CA-C	5.81	1.60	1.52
1	4G	95	GLN	CA-C	5.81	1.59	1.52
1	6m	110	THR	CA-C	-5.81	1.45	1.53
1	6V	166	ASP	C-N	5.81	1.41	1.33
1	7j	120	HIS	CA-CB	5.81	1.63	1.53
1	7O	199	LYS	CA-C	5.81	1.60	1.52
1	8l	120	HIS	ND1-CE1	5.81	1.38	1.32
1	8D	152	ASP	CA-CB	-5.81	1.44	1.53
1	8T	219	GLN	C-O	-5.81	1.16	1.24
1	9C	163	ASP	N-CA	5.81	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9I	77	ALA	N-CA	-5.81	1.39	1.46
1	a7	74	ASN	C-O	-5.81	1.17	1.24
1	b8	126	VAL	C-N	5.81	1.42	1.33
1	bi	84	HIS	CG-CD2	5.81	1.42	1.35
1	bN	116	GLY	CA-C	-5.81	1.45	1.52
1	cH	200	THR	CB-OG1	-5.81	1.34	1.43
1	cM	169	TYR	CA-C	-5.81	1.45	1.52
1	d9	12	HIS	CA-CB	5.81	1.63	1.53
1	di	81	ASP	CA-CB	5.81	1.62	1.53
1	dU	160	PRO	CA-C	-5.81	1.44	1.52
1	eb	184	TRP	NE1-CE2	-5.81	1.31	1.37
1	g6	12	HIS	CB-CG	-5.81	1.42	1.50
1	F	13	GLN	CA-C	-5.81	1.45	1.52
1	gb	48	THR	C-N	-5.81	1.26	1.34
1	gt	67	GLN	N-CA	5.81	1.53	1.46
1	gv	33	SER	N-CA	-5.81	1.37	1.45
1	gT	194	ALA	CA-C	5.81	1.60	1.52
1	gY	226	HIS	CA-C	5.81	1.60	1.52
1	hj	96	MET	C-N	5.81	1.41	1.33
1	hp	5	ASN	CA-CB	5.81	1.62	1.53
1	hu	71	GLU	C-O	-5.81	1.17	1.24
1	hE	37	ILE	C-O	-5.81	1.19	1.24
1	i7	120	HIS	ND1-CE1	5.81	1.38	1.32
1	ib	209	ALA	C-N	5.81	1.41	1.33
1	ii	77	ALA	C-O	-5.81	1.17	1.24
1	iK	43	LEU	C-N	5.81	1.42	1.33
1	iN	136	LEU	CA-C	-5.81	1.44	1.52
1	jt	63	GLN	N-CA	5.81	1.53	1.46
1	jz	12	HIS	CE1-NE2	-5.81	1.26	1.32
1	jE	115	ILE	CA-C	-5.81	1.45	1.52
1	jW	184	TRP	CA-CB	5.81	1.62	1.53
1	ki	63	GLN	CA-C	-5.81	1.45	1.52
1	22	126	VAL	C-N	5.81	1.42	1.33
1	kC	178	SER	N-CA	5.81	1.53	1.46
1	kT	85	PRO	CA-C	5.81	1.59	1.52
1	25	18	ARG	CD-NE	5.81	1.54	1.46
1	lg	109	SER	C-N	5.81	1.41	1.33
1	lI	133	TRP	N-CA	-5.81	1.39	1.46
1	2j	38	PRO	N-CD	-5.81	1.39	1.47
1	2z	200	THR	N-CA	5.81	1.53	1.46
1	2U	155	GLN	CA-CB	5.81	1.62	1.53
1	3p	18	ARG	N-CA	-5.81	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3K	190	LEU	N-CA	-5.81	1.39	1.46
1	3Q	142	VAL	N-CA	-5.81	1.39	1.46
1	3R	217	ALA	CA-CB	5.81	1.62	1.53
1	4v	126	VAL	CA-C	5.81	1.60	1.52
1	52	86	VAL	C-N	5.81	1.41	1.33
1	55	18	ARG	N-CA	-5.81	1.39	1.46
1	5e	55	MET	CA-CB	5.81	1.62	1.53
1	5n	135	ILE	N-CA	5.81	1.53	1.46
1	6L	191	VAL	N-CA	-5.81	1.39	1.46
1	7r	199	LYS	C-O	-5.81	1.16	1.24
1	8k	103	ASP	N-CA	-5.81	1.39	1.46
1	8m	12	HIS	ND1-CE1	5.81	1.38	1.32
1	8p	173	ARG	C-N	5.81	1.42	1.33
1	9n	153	ILE	CA-CB	-5.81	1.47	1.54
1	9M	70	LYS	CA-CB	5.81	1.62	1.53
1	Z	102	SER	C-N	5.81	1.41	1.33
1	a3	197	ASP	CA-C	5.81	1.60	1.52
1	a6	171	THR	N-CA	-5.81	1.39	1.46
1	10	120	HIS	CD2-NE2	5.81	1.44	1.37
1	aa	124	ILE	N-CA	-5.81	1.41	1.46
1	ax	162	ARG	CA-C	5.81	1.60	1.52
1	aA	87	HIS	ND1-CE1	5.81	1.38	1.32
1	aE	164	TYR	CA-CB	5.81	1.62	1.53
1	aN	96	MET	CA-C	5.81	1.59	1.52
1	b3	161	PHE	CG-CD1	5.81	1.51	1.38
1	ba	148	THR	CA-C	5.81	1.59	1.52
1	bk	109	SER	CA-C	-5.81	1.45	1.52
1	bm	120	HIS	CG-CD2	-5.81	1.29	1.35
1	18	166	ASP	N-CA	-5.81	1.39	1.46
1	bs	229	ARG	CZ-NH2	-5.81	1.25	1.33
1	cj	18	ARG	CA-C	-5.81	1.45	1.52
1	cj	226	HIS	CB-CG	5.81	1.58	1.50
1	cD	169	TYR	CA-CB	5.81	1.62	1.53
1	cL	88	ALA	CA-C	-5.81	1.44	1.52
1	cP	82	ARG	CA-C	5.81	1.60	1.52
1	cZ	69	LEU	C-O	-5.81	1.17	1.24
1	1i	155	GLN	CA-C	5.81	1.59	1.52
1	du	125	PRO	CA-CB	-5.81	1.49	1.53
1	dB	125	PRO	CA-C	-5.81	1.48	1.53
1	dT	131	LYS	C-O	-5.81	1.17	1.24
1	dZ	39	MET	CA-CB	5.81	1.62	1.53
1	ek	126	VAL	CA-CB	5.81	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eX	53	ASN	C-N	5.81	1.41	1.33
1	fa	154	ARG	CA-C	5.81	1.59	1.52
1	fe	149	SER	CA-CB	5.81	1.62	1.53
1	fL	3	VAL	CA-C	-5.81	1.45	1.52
1	g6	206	GLY	N-CA	5.81	1.52	1.44
1	r	138	LEU	CA-CB	5.81	1.62	1.53
1	C	120	HIS	ND1-CE1	5.81	1.38	1.32
1	9	69	LEU	CA-CB	5.81	1.62	1.53
1	gs	39	MET	C-N	5.81	1.41	1.33
1	gy	182	LYS	CA-CB	5.81	1.62	1.53
1	gV	182	LYS	C-N	5.81	1.41	1.33
1	hf	80	TRP	CA-C	5.81	1.60	1.52
1	hi	9	GLN	C-N	5.81	1.41	1.33
1	1O	165	VAL	CA-CB	-5.81	1.47	1.54
1	ih	177	ALA	CA-C	-5.81	1.44	1.52
1	jm	83	LEU	N-CA	-5.81	1.38	1.46
1	jv	108	THR	N-CA	5.81	1.52	1.46
1	1W	10	MET	SD-CE	5.81	1.94	1.79
1	kh	127	GLY	CA-C	5.81	1.58	1.52
1	kk	71	GLU	C-N	5.81	1.41	1.33
1	kn	41	SER	N-CA	5.81	1.53	1.46
1	ko	199	LYS	N-CA	-5.81	1.39	1.46
1	ku	22	ALA	N-CA	-5.81	1.38	1.46
1	ld	2	ILE	N-CA	-5.81	1.39	1.46
1	lf	82	ARG	CZ-NH2	-5.81	1.25	1.33
1	lo	136	LEU	CA-CB	5.81	1.62	1.53
1	ly	12	HIS	CB-CG	5.81	1.58	1.50
1	lA	90	PRO	CA-C	-5.81	1.45	1.52
1	35	59	VAL	N-CA	-5.81	1.39	1.46
1	3C	121	ASN	CA-CB	5.81	1.60	1.53
1	3D	12	HIS	CA-CB	5.81	1.64	1.53
1	4P	35	GLU	C-N	-5.81	1.26	1.33
1	5j	26	VAL	CA-C	-5.81	1.45	1.52
1	5w	230	VAL	CA-CB	-5.81	1.47	1.54
1	7M	82	ARG	CD-NE	5.81	1.54	1.46
1	86	37	ILE	CA-C	5.81	1.59	1.52
1	8j	97	ARG	NE-CZ	5.81	1.39	1.33
1	8Z	102	SER	CA-CB	5.81	1.62	1.53
1	9R	229	ARG	CD-NE	5.81	1.54	1.46
1	13	174	ALA	N-CA	-5.81	1.38	1.46
1	aE	108	THR	C-N	5.81	1.41	1.33
1	aY	161	PHE	CA-CB	5.81	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bn	201	ILE	CA-CB	-5.81	1.47	1.54
1	cS	17	PRO	N-CA	-5.81	1.39	1.47
1	1i	207	PRO	N-CA	-5.81	1.40	1.47
1	dT	48	THR	N-CA	5.81	1.52	1.46
1	dZ	146	SER	CA-C	5.81	1.59	1.53
1	e3	229	ARG	CD-NE	5.81	1.54	1.46
1	1A	78	ALA	CA-C	5.81	1.60	1.52
1	fY	85	PRO	CA-C	5.81	1.60	1.52
1	R	2	ILE	C-O	-5.81	1.17	1.24
1	gp	93	PRO	N-CA	5.81	1.52	1.47
1	gW	123	PRO	C-N	5.81	1.40	1.33
1	hu	54	THR	N-CA	-5.81	1.38	1.46
1	hS	204	ALA	N-CA	-5.81	1.38	1.46
1	ih	75	GLU	CA-CB	5.81	1.62	1.53
1	iq	71	GLU	N-CA	-5.81	1.39	1.46
1	iv	190	LEU	N-CA	-5.81	1.39	1.46
1	iB	123	PRO	C-N	5.81	1.39	1.33
1	iC	168	PHE	CA-C	5.81	1.60	1.52
1	j1	122	PRO	C-N	-5.81	1.26	1.33
1	j4	177	ALA	C-N	5.81	1.41	1.33
1	1X	71	GLU	C-N	5.81	1.41	1.33
1	jO	120	HIS	ND1-CE1	5.81	1.38	1.32
1	kh	123	PRO	C-N	5.81	1.38	1.33
1	kk	102	SER	CA-CB	5.81	1.64	1.53
1	ko	189	LEU	CA-C	-5.81	1.44	1.52
1	kO	82	ARG	CD-NE	5.81	1.54	1.46
1	lk	18	ARG	N-CA	5.81	1.53	1.46
1	28	71	GLU	N-CA	-5.81	1.38	1.46
1	lI	95	GLN	C-N	5.81	1.41	1.33
1	lJ	143	ARG	CA-C	5.81	1.60	1.52
1	2J	7	GLN	C-N	5.81	1.42	1.33
1	3C	72	THR	CA-CB	5.81	1.62	1.53
1	3T	216	THR	C-N	5.81	1.41	1.33
1	3W	201	ILE	CA-CB	-5.81	1.47	1.54
1	3Z	206	GLY	N-CA	5.81	1.52	1.44
1	4t	173	ARG	CD-NE	5.81	1.54	1.46
1	5a	209	ALA	C-N	5.81	1.41	1.33
1	5j	45	GLU	CA-CB	5.81	1.62	1.53
1	5q	52	LEU	CA-CB	5.81	1.62	1.53
1	7p	59	VAL	CA-CB	-5.81	1.47	1.54
1	7q	48	THR	CA-C	-5.81	1.45	1.53
1	7r	54	THR	N-CA	5.81	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7M	24	VAL	CA-C	-5.81	1.45	1.52
1	7U	134	ILE	C-N	5.81	1.41	1.33
1	87	113	GLU	C-N	5.81	1.41	1.33
1	8w	129	ILE	CA-CB	-5.81	1.47	1.54
1	8X	199	LYS	CA-C	5.81	1.60	1.52
1	95	2	ILE	CA-C	5.81	1.59	1.52
1	9g	45	GLU	CA-CB	5.81	1.61	1.53
1	b8	170	LYS	CA-C	-5.81	1.45	1.52
1	bF	18	ARG	CD-NE	5.81	1.54	1.46
1	bK	60	GLY	CA-C	-5.81	1.43	1.51
1	c0	116	GLY	CA-C	5.81	1.58	1.52
1	c1	105	ALA	N-CA	5.81	1.53	1.46
1	dc	125	PRO	N-CA	-5.81	1.39	1.47
1	dZ	82	ARG	CD-NE	5.81	1.54	1.46
1	ed	131	LYS	N-CA	-5.81	1.39	1.46
1	eg	117	TRP	CA-CB	5.81	1.62	1.53
1	el	173	ARG	N-CA	-5.81	1.39	1.46
1	es	120	HIS	CD2-NE2	5.81	1.44	1.37
1	eK	65	ALA	CA-CB	-5.81	1.44	1.53
1	f8	24	VAL	C-N	5.81	1.41	1.33
1	fT	84	HIS	CE1-NE2	-5.81	1.26	1.32
1	fY	37	ILE	CA-CB	-5.81	1.46	1.54
1	k	159	GLU	N-CA	5.81	1.54	1.46
1	B	47	ALA	C-N	5.81	1.42	1.33
1	L	96	MET	CA-C	-5.81	1.45	1.52
1	4	109	SER	CA-C	5.81	1.59	1.52
1	S	19	THR	CA-CB	5.81	1.62	1.53
1	T	165	VAL	N-CA	-5.81	1.39	1.46
1	5	187	GLU	CA-C	5.81	1.60	1.52
1	gn	33	SER	C-N	5.81	1.40	1.34
1	gv	113	GLU	N-CA	-5.81	1.39	1.46
1	gH	116	GLY	CA-C	5.81	1.58	1.52
1	gV	69	LEU	C-N	5.81	1.41	1.34
1	hD	41	SER	CA-CB	5.81	1.62	1.53
1	hK	157	PRO	CA-C	-5.81	1.46	1.52
1	hL	116	GLY	CA-C	-5.81	1.43	1.51
1	hX	199	LYS	C-N	-5.81	1.26	1.33
1	ii	13	GLN	C-O	-5.81	1.17	1.23
1	iM	135	ILE	CA-C	-5.81	1.45	1.52
1	jb	81	ASP	CA-C	5.81	1.60	1.52
1	js	147	PRO	CA-C	-5.81	1.46	1.52
1	jy	181	VAL	CA-CB	-5.81	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jB	12	HIS	ND1-CE1	5.81	1.38	1.32
1	jW	72	THR	C-N	5.81	1.41	1.33
1	kN	146	SER	CA-CB	5.81	1.62	1.53
1	kS	84	HIS	CD2-NE2	5.81	1.44	1.37
1	25	226	HIS	CA-CB	5.81	1.62	1.53
1	lb	215	MET	N-CA	-5.81	1.38	1.46
1	2d	125	PRO	C-N	5.81	1.41	1.34
1	2U	185	MET	N-CA	5.81	1.53	1.46
1	32	119	THR	C-N	5.81	1.41	1.33
1	3U	226	HIS	ND1-CE1	5.81	1.38	1.32
1	4n	70	LYS	CA-C	5.81	1.60	1.52
1	4o	143	ARG	CZ-NH2	-5.81	1.25	1.33
1	4B	97	ARG	CA-C	5.81	1.60	1.52
1	4F	62	HIS	CE1-NE2	5.81	1.38	1.32
1	4W	103	ASP	C-N	5.81	1.41	1.33
1	5s	50	GLN	CA-CB	5.81	1.62	1.53
1	6a	126	VAL	C-N	5.81	1.41	1.33
1	6h	118	MET	C-N	5.81	1.41	1.33
1	7f	93	PRO	CA-C	-5.81	1.46	1.52
1	7g	76	GLU	CA-CB	5.81	1.62	1.53
1	89	227	LYS	CA-CB	5.81	1.63	1.53
1	8c	161	PHE	N-CA	-5.81	1.39	1.46
1	8A	129	ILE	CA-CB	5.81	1.61	1.54
1	8D	40	PHE	C-N	5.81	1.41	1.33
1	8P	67	GLN	C-N	5.81	1.41	1.33
1	8P	170	LYS	CA-C	5.81	1.60	1.52
1	95	154	ARG	C-N	5.81	1.41	1.33
1	9h	182	LYS	CA-C	5.81	1.60	1.52
1	9Q	87	HIS	CG-ND1	-5.81	1.31	1.38
1	ag	102	SER	N-CA	-5.81	1.39	1.46
1	aq	172	LEU	C-O	-5.81	1.16	1.24
1	aL	78	ALA	CA-C	5.81	1.60	1.52
1	aT	150	ILE	CB-CG1	5.81	1.65	1.53
1	bf	92	GLU	CA-CB	5.81	1.61	1.53
1	19	162	ARG	C-N	-5.81	1.26	1.33
1	bM	199	LYS	CA-C	-5.81	1.45	1.52
1	bO	97	ARG	CA-C	5.81	1.60	1.52
1	bP	10	MET	C-N	5.81	1.41	1.33
1	bZ	198	CYS	C-O	-5.81	1.17	1.24
1	cj	179	GLN	CA-C	5.81	1.60	1.52
1	d1	209	ALA	CA-CB	5.81	1.61	1.53
1	d9	157	PRO	CA-C	-5.81	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1l	98	GLU	CA-C	5.81	1.60	1.52
1	dB	7	GLN	CA-CB	5.81	1.62	1.53
1	dK	4	GLN	CA-C	-5.81	1.44	1.53
1	dM	18	ARG	C-N	5.81	1.41	1.33
1	eQ	114	GLN	N-CA	-5.81	1.39	1.46
1	eW	163	ASP	C-O	-5.81	1.16	1.24
1	f6	123	PRO	C-N	5.81	1.40	1.33
1	fs	1	PRO	N-CD	5.81	1.55	1.47
1	fu	90	PRO	CA-CB	5.81	1.61	1.53
1	fR	35	GLU	CA-C	-5.81	1.44	1.52
1	fS	197	ASP	CA-C	-5.81	1.45	1.52
1	B	76	GLU	CA-C	5.81	1.60	1.52
1	gI	226	HIS	CA-C	5.81	1.60	1.53
1	hB	216	THR	C-N	5.81	1.41	1.33
1	jq	78	ALA	C-N	-5.81	1.26	1.33
1	jJ	80	TRP	CA-C	5.81	1.60	1.52
1	lJ	173	ARG	N-CA	-5.81	1.39	1.46
1	3j	143	ARG	N-CA	-5.81	1.39	1.46
1	3u	180	GLU	CA-C	5.81	1.61	1.52
1	4y	120	HIS	C-N	5.81	1.39	1.33
1	6l	54	THR	C-N	5.81	1.41	1.33
1	7i	6	LEU	N-CA	-5.81	1.38	1.46
1	7P	87	HIS	ND1-CE1	5.81	1.38	1.32
1	9r	141	ILE	N-CA	-5.81	1.39	1.46
1	9w	6	LEU	C-N	5.81	1.41	1.33
1	a2	155	GLN	CA-CB	5.81	1.61	1.53
1	ax	135	ILE	CA-CB	-5.81	1.47	1.54
1	aE	217	ALA	CA-C	5.81	1.60	1.52
1	aG	197	ASP	CA-C	5.81	1.60	1.52
1	bD	62	HIS	CB-CG	-5.81	1.42	1.50
1	bQ	179	GLN	N-CA	-5.81	1.39	1.46
1	cE	218	CYS	C-N	-5.81	1.25	1.33
1	ee	38	PRO	CA-C	-5.81	1.43	1.52
1	eT	25	LYS	C-N	5.81	1.41	1.33
1	fd	102	SER	CA-CB	5.81	1.62	1.53
1	fs	42	ALA	C-O	-5.81	1.17	1.24
1	gm	134	ILE	C-O	-5.80	1.17	1.24
1	gD	195	ASN	CA-C	5.80	1.59	1.53
1	gF	227	LYS	N-CA	5.80	1.52	1.45
1	gN	82	ARG	CD-NE	5.80	1.54	1.46
1	gR	190	LEU	C-N	5.80	1.40	1.34
1	h1	184	TRP	CA-C	5.80	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ha	204	ALA	N-CA	-5.80	1.39	1.46
1	ip	153	ILE	C-N	5.80	1.41	1.33
1	1Q	24	VAL	N-CA	5.80	1.53	1.46
1	iN	84	HIS	CG-CD2	5.80	1.42	1.35
1	iY	4	GLN	CA-CB	5.80	1.63	1.53
1	j1	68	MET	CA-CB	5.80	1.62	1.53
1	ji	102	SER	N-CA	5.80	1.53	1.46
1	jj	193	ASN	C-N	5.80	1.41	1.33
1	jG	5	ASN	CA-C	-5.80	1.45	1.52
1	kq	41	SER	C-N	5.80	1.41	1.33
1	kr	210	THR	CA-C	5.80	1.60	1.53
1	kR	24	VAL	N-CA	5.80	1.53	1.46
1	2p	3	VAL	C-O	-5.80	1.17	1.24
1	3o	120	HIS	CB-CG	-5.80	1.42	1.50
1	3w	15	ILE	CA-C	-5.80	1.46	1.52
1	43	85	PRO	C-N	5.80	1.40	1.33
1	4k	66	MET	CA-C	5.80	1.60	1.52
1	54	219	GLN	C-N	5.80	1.40	1.33
1	5G	220	GLY	CA-C	5.80	1.60	1.51
1	5H	156	GLY	N-CA	5.80	1.50	1.43
1	5S	124	ILE	CA-CB	-5.80	1.48	1.53
1	5T	133	TRP	CA-CB	5.80	1.62	1.53
1	6h	110	THR	CA-C	-5.80	1.45	1.53
1	6l	85	PRO	CA-CB	5.80	1.62	1.53
1	7O	202	LEU	CA-CB	5.80	1.62	1.53
1	8e	61	GLY	C-O	-5.80	1.18	1.23
1	8V	77	ALA	CA-C	5.80	1.60	1.52
1	90	192	GLN	N-CA	-5.80	1.39	1.46
1	9q	23	TRP	CA-CB	5.80	1.62	1.53
1	9K	192	GLN	N-CA	5.80	1.53	1.46
1	9P	106	GLY	C-N	-5.80	1.26	1.33
1	9S	42	ALA	C-O	-5.80	1.17	1.24
1	a1	143	ARG	CA-CB	5.80	1.62	1.53
1	af	124	ILE	N-CA	5.80	1.50	1.46
1	ai	195	ASN	CA-CB	5.80	1.62	1.53
1	aq	168	PHE	N-CA	-5.80	1.39	1.46
1	ay	140	LYS	N-CA	5.80	1.53	1.46
1	aC	173	ARG	CA-C	5.80	1.60	1.52
1	aW	113	GLU	CA-CB	5.80	1.62	1.53
1	bj	175	GLU	N-CA	-5.80	1.39	1.46
1	bq	173	ARG	CD-NE	5.80	1.54	1.46
1	bH	42	ALA	CA-C	-5.80	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bT	226	HIS	ND1-CE1	5.80	1.38	1.32
1	c4	165	VAL	C-O	-5.80	1.17	1.24
1	ce	101	GLY	CA-C	-5.80	1.45	1.52
1	cI	11	VAL	CA-C	5.80	1.59	1.52
1	dd	211	LEU	N-CA	5.80	1.53	1.46
1	df	1	PRO	N-CD	5.80	1.55	1.47
1	em	12	HIS	ND1-CE1	5.80	1.38	1.32
1	eR	2	ILE	N-CA	-5.80	1.39	1.46
1	fF	132	ARG	CA-C	5.80	1.60	1.52
1	fI	35	GLU	CA-CB	5.80	1.62	1.53
1	fZ	120	HIS	CE1-NE2	-5.80	1.26	1.32
1	1	137	GLY	CA-C	5.80	1.58	1.52
1	l	119	THR	N-CA	5.80	1.53	1.46
1	p	104	ILE	C-O	-5.80	1.17	1.24
1	r	20	LEU	CA-CB	5.80	1.62	1.53
1	G	202	LEU	CB-CG	5.80	1.65	1.53
1	5	132	ARG	CD-NE	5.80	1.54	1.46
1	h0	117	TRP	CD2-CE2	5.80	1.51	1.41
1	hl	42	ALA	C-N	5.80	1.41	1.34
1	hY	93	PRO	CA-C	5.80	1.59	1.52
1	il	30	LYS	CA-C	-5.80	1.45	1.52
1	it	34	PRO	C-N	5.80	1.41	1.33
1	iV	21	ASN	N-CA	-5.80	1.39	1.46
1	kL	76	GLU	CA-CB	5.80	1.62	1.53
1	ll	218	CYS	C-N	5.80	1.41	1.33
1	lK	37	ILE	N-CA	5.80	1.53	1.46
1	2i	84	HIS	N-CA	-5.80	1.40	1.46
1	4G	144	MET	C-N	5.80	1.41	1.33
1	6h	180	GLU	CA-C	5.80	1.60	1.52
1	6J	149	SER	CA-C	5.80	1.60	1.52
1	7V	15	ILE	N-CA	5.80	1.53	1.46
1	8n	47	ALA	CA-CB	5.80	1.61	1.53
1	8p	224	PRO	CA-C	5.80	1.60	1.52
1	8t	132	ARG	CA-CB	5.80	1.62	1.53
1	8N	111	LEU	CA-C	5.80	1.60	1.52
1	8T	81	ASP	CA-C	-5.80	1.45	1.52
1	al	162	ARG	CD-NE	5.80	1.54	1.46
1	aD	18	ARG	N-CA	5.80	1.53	1.46
1	bv	143	ARG	CA-CB	5.80	1.62	1.53
1	bM	23	TRP	CA-CB	5.80	1.62	1.53
1	1k	130	TYR	CA-CB	5.80	1.62	1.53
1	ef	90	PRO	C-N	5.80	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eG	218	CYS	CA-C	5.80	1.60	1.53
1	1y	116	GLY	CA-C	-5.80	1.45	1.52
1	ge	117	TRP	C-O	-5.80	1.17	1.24
1	gj	53	ASN	CA-CB	5.80	1.62	1.53
1	gj	141	ILE	C-O	-5.80	1.17	1.24
1	gk	133	TRP	NE1-CE2	-5.80	1.31	1.37
1	gI	128	GLU	C-O	-5.80	1.17	1.24
1	gM	118	MET	CA-C	5.80	1.60	1.52
1	gX	183	ASN	CA-CB	5.80	1.62	1.53
1	h8	120	HIS	ND1-CE1	5.80	1.38	1.32
1	hb	100	ARG	CZ-NH1	-5.80	1.24	1.32
1	hk	92	GLU	CA-C	-5.80	1.45	1.52
1	hI	69	LEU	N-CA	5.80	1.53	1.46
1	hV	143	ARG	CZ-NH2	-5.80	1.25	1.33
1	ii	65	ALA	C-N	5.80	1.41	1.33
1	iV	188	THR	C-N	5.80	1.41	1.33
1	iX	226	HIS	ND1-CE1	5.80	1.38	1.32
1	jp	57	ASN	CA-C	5.80	1.60	1.52
1	jv	17	PRO	N-CA	-5.80	1.40	1.47
1	jE	140	LYS	CA-C	5.80	1.60	1.52
1	jG	53	ASN	CA-C	-5.80	1.45	1.52
1	jJ	106	GLY	N-CA	5.80	1.53	1.45
1	jM	204	ALA	N-CA	-5.80	1.39	1.46
1	jT	103	ASP	N-CA	5.80	1.53	1.46
1	k1	211	LEU	C-O	-5.80	1.17	1.24
1	k2	57	ASN	C-N	5.80	1.42	1.33
1	kv	109	SER	CA-C	5.80	1.59	1.52
1	kB	225	GLY	C-N	5.80	1.41	1.33
1	kI	129	ILE	CA-C	5.80	1.59	1.52
1	24	133	TRP	C-N	5.80	1.41	1.33
1	kS	103	ASP	CA-CB	5.80	1.62	1.53
1	l1	53	ASN	CA-CB	5.80	1.62	1.53
1	l6	219	GLN	C-O	-5.80	1.17	1.24
1	l9	140	LYS	CA-C	-5.80	1.45	1.52
1	le	100	ARG	CD-NE	5.80	1.54	1.46
1	2B	175	GLU	CA-C	5.80	1.60	1.52
1	2K	173	ARG	CA-C	5.80	1.60	1.52
1	3f	61	GLY	N-CA	-5.80	1.39	1.44
1	3r	104	ILE	CA-C	5.80	1.60	1.52
1	3t	106	GLY	CA-C	-5.80	1.43	1.51
1	3H	114	GLN	N-CA	5.80	1.53	1.46
1	3Q	143	ARG	CD-NE	5.80	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4Q	120	HIS	CG-CD2	5.80	1.42	1.35
1	52	130	TYR	CA-CB	5.80	1.62	1.53
1	5r	12	HIS	N-CA	5.80	1.53	1.46
1	6a	209	ALA	N-CA	5.80	1.53	1.46
1	6u	117	TRP	NE1-CE2	5.80	1.43	1.37
1	7l	11	VAL	CA-C	5.80	1.60	1.52
1	7H	187	GLU	CA-C	5.80	1.60	1.52
1	7X	59	VAL	CA-CB	-5.80	1.46	1.54
1	84	205	LEU	CA-C	-5.80	1.45	1.52
1	8m	193	ASN	C-N	5.80	1.41	1.33
1	8z	33	SER	C-O	5.80	1.31	1.24
1	8C	216	THR	C-N	5.80	1.41	1.33
1	8D	162	ARG	N-CA	5.80	1.53	1.46
1	9F	120	HIS	CA-C	-5.80	1.45	1.53
1	9N	162	ARG	CD-NE	5.80	1.54	1.46
1	9Z	158	LYS	N-CA	5.80	1.53	1.46
1	aq	129	ILE	CA-CB	-5.80	1.47	1.54
1	ay	56	LEU	CA-C	5.80	1.60	1.52
1	az	58	THR	N-CA	5.80	1.53	1.46
1	aK	28	GLU	C-N	5.80	1.41	1.33
1	aV	128	GLU	CA-CB	5.80	1.62	1.53
1	aY	116	GLY	CA-C	-5.80	1.45	1.52
1	b7	23	TRP	N-CA	-5.80	1.39	1.46
1	bc	170	LYS	CA-C	5.80	1.60	1.52
1	bk	202	LEU	CA-CB	5.80	1.62	1.53
1	bU	88	ALA	N-CA	-5.80	1.38	1.46
1	cj	36	VAL	CA-CB	5.80	1.61	1.54
1	cw	228	ALA	N-CA	-5.80	1.38	1.46
1	cS	18	ARG	CD-NE	5.80	1.54	1.46
1	cU	32	PHE	C-N	5.80	1.39	1.33
1	dd	39	MET	CA-CB	5.80	1.62	1.53
1	df	182	LYS	C-N	5.80	1.41	1.33
1	dg	161	PHE	C-N	5.80	1.41	1.33
1	dg	164	TYR	N-CA	-5.80	1.39	1.46
1	dv	58	THR	CA-C	5.80	1.60	1.52
1	dJ	157	PRO	CA-C	5.80	1.61	1.52
1	eq	102	SER	C-N	5.80	1.41	1.33
1	1r	150	ILE	C-N	5.80	1.42	1.34
1	eJ	184	TRP	CA-CB	5.80	1.62	1.53
1	1t	188	THR	CA-CB	-5.80	1.47	1.54
1	eY	153	ILE	CA-CB	-5.80	1.47	1.54
1	f1	126	VAL	CA-C	5.80	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fV	96	MET	CA-CB	5.80	1.62	1.53
1	2	27	VAL	C-O	-5.80	1.17	1.24
1	I	228	ALA	C-O	-5.80	1.17	1.23
1	L	36	VAL	CA-C	5.80	1.60	1.52
1	S	32	PHE	CA-CB	5.80	1.62	1.53
1	g8	158	LYS	N-CA	-5.80	1.39	1.46
1	1E	22	ALA	CA-CB	5.80	1.62	1.53
1	1G	173	ARG	C-N	5.80	1.41	1.33
1	hQ	217	ALA	CA-CB	5.80	1.62	1.53
1	ih	190	LEU	CA-C	5.80	1.60	1.52
1	iv	130	TYR	CA-C	5.80	1.60	1.52
1	iw	48	THR	CA-C	5.80	1.60	1.52
1	jc	227	LYS	CA-C	5.80	1.59	1.52
1	jp	64	ALA	C-N	5.80	1.41	1.33
1	jw	161	PHE	CA-CB	5.80	1.62	1.53
1	jR	70	LYS	CA-C	5.80	1.60	1.52
1	kl	1	PRO	C-N	5.80	1.40	1.33
1	kp	36	VAL	CA-CB	-5.80	1.47	1.54
1	l5	45	GLU	CA-CB	5.80	1.62	1.53
1	ll	165	VAL	N-CA	-5.80	1.39	1.46
1	lR	85	PRO	CA-C	-5.80	1.44	1.52
1	2g	227	LYS	CA-CB	5.80	1.61	1.53
1	2M	49	PRO	N-CA	-5.80	1.39	1.47
1	2S	134	ILE	CA-C	-5.80	1.45	1.52
1	3g	195	ASN	C-O	-5.80	1.16	1.23
1	3r	198	CYS	C-N	5.80	1.41	1.34
1	3D	205	LEU	CA-C	5.80	1.60	1.52
1	3X	223	GLY	N-CA	5.80	1.52	1.44
1	4e	49	PRO	C-N	5.80	1.41	1.33
1	4v	49	PRO	CA-CB	5.80	1.62	1.53
1	4W	228	ALA	N-CA	-5.80	1.38	1.46
1	5B	124	ILE	CA-C	-5.80	1.48	1.53
1	5F	120	HIS	C-N	5.80	1.39	1.33
1	5G	120	HIS	CA-C	-5.80	1.45	1.53
1	5M	140	LYS	N-CA	-5.80	1.39	1.46
1	5U	54	THR	C-O	5.80	1.31	1.24
1	6j	132	ARG	CD-NE	5.80	1.54	1.46
1	6r	86	VAL	CA-CB	-5.80	1.47	1.53
1	6t	83	LEU	CA-C	5.80	1.60	1.52
1	6z	12	HIS	CD2-NE2	5.80	1.44	1.37
1	6L	138	LEU	C-O	-5.80	1.17	1.24
1	8g	67	GLN	CA-CB	5.80	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8t	82	ARG	CD-NE	5.80	1.54	1.46
1	93	38	PRO	CA-CB	-5.80	1.45	1.53
1	9a	199	LYS	CA-C	-5.80	1.45	1.52
1	9i	208	ALA	CA-CB	5.80	1.62	1.53
1	9j	163	ASP	CA-CB	5.80	1.62	1.53
1	a0	53	ASN	CA-CB	5.80	1.62	1.53
1	aj	112	GLN	CA-CB	5.80	1.62	1.53
1	ax	90	PRO	C-N	-5.80	1.25	1.33
1	aK	110	THR	N-CA	-5.80	1.38	1.45
1	bb	138	LEU	C-N	-5.80	1.26	1.33
1	bh	24	VAL	CA-C	5.80	1.59	1.52
1	bW	203	LYS	N-CA	5.80	1.53	1.46
1	ck	115	ILE	CA-CB	-5.80	1.47	1.54
1	cQ	199	LYS	CA-CB	5.80	1.62	1.53
1	dE	211	LEU	CA-CB	5.80	1.62	1.53
1	dH	179	GLN	CA-C	-5.80	1.45	1.52
1	dU	145	TYR	CA-CB	5.80	1.61	1.53
1	dW	64	ALA	C-N	5.80	1.41	1.33
1	ea	171	THR	CA-C	5.80	1.60	1.52
1	eI	142	VAL	CA-C	-5.80	1.45	1.52
1	eT	117	TRP	CA-CB	5.80	1.62	1.53
1	fp	159	GLU	CA-C	5.80	1.59	1.52
1	fr	77	ALA	C-N	-5.80	1.26	1.33
1	fr	228	ALA	CA-CB	-5.80	1.45	1.53
1	1x	52	LEU	CA-C	-5.80	1.45	1.52
1	fK	101	GLY	N-CA	5.80	1.53	1.45
1	g1	100	ARG	CA-CB	5.80	1.62	1.53
1	n	150	ILE	CA-C	5.80	1.60	1.52
1	gZ	41	SER	C-O	-5.80	1.17	1.24
1	hG	129	ILE	C-N	5.80	1.41	1.34
1	hK	94	GLY	C-N	5.80	1.41	1.33
1	hO	148	THR	CA-C	5.80	1.60	1.52
1	i0	173	ARG	CA-CB	5.80	1.62	1.53
1	ie	83	LEU	C-N	5.80	1.43	1.33
1	iB	62	HIS	CE1-NE2	5.80	1.38	1.32
1	jg	118	MET	CA-CB	5.80	1.63	1.53
1	la	70	LYS	N-CA	-5.80	1.38	1.46
1	2m	147	PRO	N-CD	-5.80	1.39	1.47
1	2o	120	HIS	ND1-CE1	5.80	1.38	1.32
1	3y	109	SER	N-CA	-5.80	1.38	1.46
1	3K	98	GLU	C-N	5.80	1.40	1.33
1	3T	12	HIS	CB-CG	5.80	1.58	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4g	7	GLN	CA-C	-5.80	1.45	1.52
1	4k	140	LYS	CA-C	5.80	1.60	1.52
1	6i	149	SER	CA-CB	5.80	1.62	1.53
1	6o	162	ARG	C-N	5.80	1.42	1.33
1	7x	161	PHE	CA-C	5.80	1.60	1.52
1	80	202	LEU	C-N	5.80	1.41	1.33
1	8v	86	VAL	CA-C	-5.80	1.46	1.52
1	9K	154	ARG	CD-NE	5.80	1.54	1.46
1	bN	59	VAL	N-CA	5.80	1.53	1.46
1	bS	27	VAL	C-N	5.80	1.41	1.33
1	1e	117	TRP	CA-CB	5.80	1.62	1.53
1	dS	27	VAL	CA-C	-5.80	1.45	1.52
1	ej	69	LEU	N-CA	-5.80	1.39	1.46
1	eM	54	THR	N-CA	5.80	1.53	1.46
1	eW	181	VAL	N-CA	5.80	1.53	1.46
1	f0	111	LEU	C-O	-5.80	1.17	1.24
1	u	103	ASP	N-CA	5.80	1.53	1.46
1	x	3	VAL	C-N	5.80	1.41	1.33
1	3	87	HIS	CD2-NE2	5.80	1.44	1.37
1	gm	43	LEU	N-CA	-5.80	1.39	1.46
1	1D	84	HIS	CD2-NE2	5.80	1.44	1.37
1	gL	180	GLU	N-CA	-5.80	1.39	1.46
1	ha	4	GLN	N-CA	-5.80	1.38	1.46
1	hc	149	SER	CA-C	-5.80	1.45	1.52
1	hP	185	MET	SD-CE	5.80	1.94	1.79
1	if	191	VAL	CA-CB	5.80	1.61	1.54
1	iy	35	GLU	C-O	-5.80	1.16	1.24
1	iA	162	ARG	CA-C	5.80	1.60	1.52
1	1S	192	GLN	CA-C	5.80	1.60	1.52
1	jo	182	LYS	CA-CB	5.80	1.62	1.53
1	jG	166	ASP	C-N	-5.80	1.26	1.33
1	jL	51	ASP	CA-C	5.80	1.60	1.52
1	k6	151	LEU	N-CA	5.80	1.53	1.46
1	kd	130	TYR	C-N	5.80	1.41	1.33
1	lH	18	ARG	CA-C	-5.80	1.45	1.52
1	lO	139	ASN	CA-CB	5.80	1.62	1.53
1	2o	109	SER	CA-CB	5.80	1.62	1.53
1	33	12	HIS	N-CA	5.80	1.53	1.46
1	3l	184	TRP	CA-CB	5.80	1.62	1.53
1	3Z	53	ASN	CA-C	-5.80	1.45	1.52
1	4l	12	HIS	CA-C	5.80	1.60	1.52
1	4l	112	GLN	C-N	5.80	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4u	96	MET	CA-C	-5.80	1.45	1.52
1	4w	69	LEU	CA-CB	5.80	1.62	1.53
1	4A	212	GLU	N-CA	-5.80	1.39	1.46
1	4U	12	HIS	ND1-CE1	5.80	1.38	1.32
1	4V	97	ARG	CA-C	5.80	1.60	1.52
1	52	112	GLN	C-N	5.80	1.41	1.33
1	5x	116	GLY	N-CA	5.80	1.52	1.45
1	61	109	SER	N-CA	-5.80	1.38	1.46
1	6p	12	HIS	CB-CG	5.80	1.58	1.50
1	6r	172	LEU	CA-C	5.80	1.60	1.52
1	6J	202	LEU	CA-C	5.80	1.60	1.52
1	7m	126	VAL	C-O	5.80	1.30	1.24
1	7p	159	GLU	CA-C	5.80	1.59	1.52
1	7r	216	THR	C-N	5.80	1.41	1.33
1	8s	17	PRO	C-N	5.80	1.41	1.33
1	8J	19	THR	C-O	-5.80	1.17	1.24
1	8X	136	LEU	CA-CB	5.80	1.62	1.53
1	12	35	GLU	CA-C	5.80	1.60	1.52
1	aK	153	ILE	CA-CB	5.80	1.60	1.54
1	aM	136	LEU	CB-CG	5.80	1.65	1.53
1	aT	96	MET	C-N	5.80	1.41	1.33
1	bs	148	THR	CA-C	-5.80	1.44	1.52
1	bE	185	MET	C-N	-5.80	1.25	1.33
1	bM	177	ALA	CA-C	5.80	1.60	1.52
1	c3	21	ASN	N-CA	5.80	1.53	1.46
1	c7	119	THR	CB-OG1	-5.80	1.34	1.43
1	cb	133	TRP	CG-CD2	-5.80	1.33	1.43
1	cG	141	ILE	CA-CB	5.80	1.61	1.54
1	cN	167	ARG	C-N	5.80	1.41	1.33
1	d7	26	VAL	CA-CB	5.80	1.61	1.54
1	dg	43	LEU	N-CA	-5.80	1.38	1.46
1	1k	64	ALA	N-CA	-5.80	1.38	1.46
1	eJ	117	TRP	CA-C	5.80	1.60	1.52
1	eL	135	ILE	CA-CB	-5.80	1.46	1.54
1	fA	84	HIS	CA-C	5.80	1.59	1.52
1	fK	167	ARG	CA-CB	5.80	1.62	1.53
1	b	170	LYS	N-CA	5.80	1.53	1.46
1	j	173	ARG	CD-NE	5.80	1.54	1.46
1	x	167	ARG	CD-NE	5.80	1.54	1.46
1	R	179	GLN	N-CA	5.80	1.53	1.46
1	8	70	LYS	N-CA	-5.80	1.39	1.46
1	gl	41	SER	CA-C	-5.79	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gB	229	ARG	CA-C	-5.79	1.45	1.52
1	gG	215	MET	CA-C	5.79	1.60	1.52
1	hn	62	HIS	CD2-NE2	5.79	1.44	1.37
1	hE	123	PRO	C-N	5.79	1.40	1.33
1	hS	161	PHE	CA-CB	5.79	1.62	1.53
1	j1	12	HIS	CB-CG	-5.79	1.42	1.50
1	jg	100	ARG	CZ-NH1	-5.79	1.24	1.32
1	js	24	VAL	CA-CB	-5.79	1.47	1.54
1	jI	90	PRO	C-N	5.79	1.41	1.33
1	k0	1	PRO	C-N	5.79	1.40	1.33
1	ka	145	TYR	CA-CB	5.79	1.63	1.53
1	22	226	HIS	CB-CG	5.79	1.58	1.50
1	lC	81	ASP	N-CA	5.79	1.53	1.46
1	2f	219	GLN	CA-C	-5.79	1.45	1.52
1	2S	230	VAL	CA-C	-5.79	1.45	1.52
1	36	29	GLU	CA-CB	5.79	1.62	1.53
1	3X	25	LYS	CA-CB	5.79	1.62	1.53
1	4U	100	ARG	CD-NE	5.79	1.54	1.46
1	88	27	VAL	CA-CB	-5.79	1.47	1.54
1	9S	81	ASP	N-CA	-5.79	1.39	1.46
1	9S	151	LEU	CA-C	5.79	1.60	1.52
1	a0	69	LEU	N-CA	5.79	1.53	1.46
1	ad	176	GLN	CA-CB	5.79	1.62	1.53
1	ax	172	LEU	C-N	5.79	1.42	1.34
1	aA	19	THR	C-N	5.79	1.41	1.33
1	bY	164	TYR	CA-C	5.79	1.60	1.52
1	cz	84	HIS	ND1-CE1	5.79	1.38	1.32
1	cH	19	THR	CA-C	-5.79	1.45	1.52
1	cM	123	PRO	CA-C	-5.79	1.45	1.52
1	dd	23	TRP	NE1-CE2	5.79	1.43	1.37
1	1k	189	LEU	CA-C	-5.79	1.45	1.52
1	ed	141	ILE	C-N	5.79	1.41	1.33
1	eB	57	ASN	C-N	5.79	1.42	1.33
1	fY	173	ARG	CD-NE	5.79	1.54	1.46
1	B	171	THR	N-CA	5.79	1.53	1.46
1	T	61	GLY	CA-C	-5.79	1.45	1.52
1	1D	128	GLU	C-O	-5.79	1.17	1.24
1	gx	82	ARG	CD-NE	5.79	1.54	1.46
1	ha	208	ALA	CA-C	5.79	1.60	1.52
1	hE	133	TRP	N-CA	-5.79	1.39	1.46
1	hG	178	SER	C-N	5.79	1.41	1.33
1	i1	30	LYS	N-CA	5.79	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ic	20	LEU	CA-CB	5.79	1.62	1.53
1	id	84	HIS	CA-CB	5.79	1.61	1.52
1	id	148	THR	CA-C	-5.79	1.45	1.52
1	j0	45	GLU	C-N	5.79	1.42	1.33
1	j2	174	ALA	CA-C	5.79	1.60	1.52
1	jv	160	PRO	C-N	5.79	1.41	1.33
1	1X	174	ALA	C-N	5.79	1.41	1.33
1	jW	129	ILE	N-CA	-5.79	1.39	1.46
1	jX	165	VAL	CA-C	5.79	1.59	1.52
1	k4	191	VAL	CA-C	5.79	1.60	1.52
1	20	228	ALA	N-CA	-5.79	1.38	1.46
1	kG	215	MET	N-CA	-5.79	1.38	1.46
1	kH	41	SER	CA-CB	5.79	1.62	1.53
1	kV	73	ILE	CA-C	5.79	1.60	1.52
1	l2	226	HIS	CG-ND1	-5.79	1.31	1.38
1	lk	86	VAL	CA-CB	-5.79	1.47	1.54
1	lI	100	ARG	CD-NE	5.79	1.54	1.46
1	2c	15	ILE	CA-C	5.79	1.59	1.52
1	2c	119	THR	N-CA	5.79	1.53	1.46
1	2f	156	GLY	C-N	-5.79	1.27	1.34
1	2q	221	VAL	CA-C	5.79	1.59	1.52
1	2E	132	ARG	CD-NE	5.79	1.54	1.46
1	2U	104	ILE	CA-C	-5.79	1.45	1.52
1	39	98	GLU	CA-C	5.79	1.59	1.52
1	3g	76	GLU	C-O	5.79	1.30	1.24
1	3w	134	ILE	C-N	5.79	1.41	1.33
1	43	212	GLU	C-O	-5.79	1.17	1.24
1	4j	115	ILE	CA-C	5.79	1.59	1.52
1	4K	57	ASN	C-N	5.79	1.41	1.33
1	5Y	204	ALA	C-O	-5.79	1.17	1.24
1	60	52	LEU	C-N	5.79	1.42	1.34
1	6M	108	THR	C-N	5.79	1.40	1.33
1	72	223	GLY	C-N	-5.79	1.27	1.34
1	7J	178	SER	C-N	5.79	1.42	1.34
1	80	135	ILE	CA-C	5.79	1.60	1.52
1	86	149	SER	C-N	-5.79	1.26	1.34
1	8M	212	GLU	CA-C	5.79	1.60	1.52
1	9g	190	LEU	CA-CB	5.79	1.62	1.53
1	9s	45	GLU	CA-CB	5.79	1.63	1.53
1	9y	219	GLN	N-CA	-5.79	1.39	1.46
1	9A	131	LYS	CA-CB	5.79	1.62	1.53
1	9Q	4	GLN	N-CA	5.79	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a5	149	SER	C-N	5.79	1.40	1.34
1	a7	113	GLU	C-N	5.79	1.41	1.33
1	as	49	PRO	CA-CB	5.79	1.61	1.53
1	b6	98	GLU	C-N	5.79	1.40	1.33
1	bf	90	PRO	CA-CB	-5.79	1.46	1.53
1	bx	84	HIS	CB-CG	5.79	1.58	1.50
1	bF	19	THR	CA-C	-5.79	1.45	1.52
1	c2	87	HIS	CD2-NE2	5.79	1.44	1.37
1	cn	138	LEU	N-CA	-5.79	1.38	1.45
1	cv	86	VAL	C-N	5.79	1.41	1.33
1	cC	226	HIS	CE1-NE2	-5.79	1.26	1.32
1	cY	152	ASP	N-CA	-5.79	1.38	1.46
1	da	193	ASN	CA-C	-5.79	1.45	1.52
1	de	131	LYS	CA-CB	5.79	1.62	1.53
1	dk	62	HIS	CG-ND1	5.79	1.44	1.38
1	dv	85	PRO	C-N	5.79	1.40	1.33
1	dv	183	ASN	CA-CB	5.79	1.62	1.53
1	dL	15	ILE	CA-CB	5.79	1.60	1.54
1	dQ	113	GLU	CA-C	-5.79	1.45	1.52
1	dR	178	SER	N-CA	5.79	1.53	1.45
1	dT	130	TYR	CA-CB	5.79	1.62	1.53
1	eg	205	LEU	C-N	5.79	1.42	1.33
1	1r	162	ARG	CZ-NH2	-5.79	1.25	1.33
1	ey	229	ARG	CA-C	-5.79	1.45	1.53
1	f2	139	ASN	C-N	5.79	1.41	1.33
1	f4	27	VAL	CA-C	5.79	1.59	1.52
1	f5	87	HIS	CA-CB	5.79	1.63	1.53
1	f5	214	MET	CA-C	5.79	1.60	1.52
1	f7	154	ARG	CZ-NH2	-5.79	1.25	1.33
1	fy	180	GLU	CA-CB	5.79	1.62	1.53
1	fZ	4	GLN	N-CA	-5.79	1.38	1.46
1	d	120	HIS	CE1-NE2	-5.79	1.26	1.32
1	2	200	THR	C-N	5.79	1.41	1.33
1	gi	188	THR	N-CA	5.79	1.53	1.46
1	gS	50	GLN	N-CA	5.79	1.53	1.46
1	1H	215	MET	CA-CB	5.79	1.62	1.53
1	hm	202	LEU	N-CA	5.79	1.53	1.46
1	hG	132	ARG	CA-C	5.79	1.60	1.52
1	i0	69	LEU	CA-C	5.79	1.60	1.52
1	1P	162	ARG	N-CA	5.79	1.53	1.46
1	io	133	TRP	NE1-CE2	-5.79	1.31	1.37
1	iB	110	THR	N-CA	5.79	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j9	24	VAL	N-CA	-5.79	1.39	1.46
1	jw	131	LYS	CA-C	-5.79	1.45	1.52
1	jC	56	LEU	CA-CB	5.79	1.62	1.53
1	jJ	208	ALA	CA-C	5.79	1.61	1.52
1	jQ	7	GLN	CA-C	-5.79	1.46	1.52
1	k5	126	VAL	C-N	5.79	1.41	1.33
1	k6	188	THR	CA-C	-5.79	1.48	1.52
1	ky	165	VAL	CA-C	-5.79	1.44	1.52
1	kC	97	ARG	CZ-NH2	-5.79	1.25	1.33
1	kR	29	GLU	CA-C	-5.79	1.45	1.52
1	la	215	MET	CA-CB	5.79	1.63	1.53
1	lD	158	LYS	CA-CB	5.79	1.61	1.53
1	lM	225	GLY	CA-C	5.79	1.59	1.51
1	2g	170	LYS	N-CA	-5.79	1.39	1.46
1	3I	12	HIS	CA-CB	5.79	1.62	1.53
1	3S	77	ALA	CA-C	-5.79	1.45	1.52
1	43	32	PHE	CA-C	-5.79	1.44	1.52
1	56	56	LEU	CA-CB	5.79	1.62	1.53
1	5p	129	ILE	C-O	-5.79	1.17	1.24
1	5A	10	MET	CA-C	5.79	1.60	1.52
1	5T	27	VAL	CA-C	5.79	1.59	1.52
1	5X	164	TYR	C-N	-5.79	1.27	1.34
1	63	66	MET	C-N	5.79	1.42	1.33
1	66	65	ALA	C-O	-5.79	1.17	1.24
1	6f	161	PHE	C-O	-5.79	1.17	1.24
1	6B	47	ALA	CA-C	5.79	1.60	1.52
1	6P	173	ARG	CD-NE	5.79	1.54	1.46
1	72	3	VAL	N-CA	-5.79	1.40	1.46
1	77	178	SER	CA-CB	5.79	1.63	1.53
1	7r	59	VAL	CA-C	5.79	1.59	1.52
1	8t	21	ASN	CA-C	-5.79	1.45	1.52
1	8v	87	HIS	ND1-CE1	5.79	1.38	1.32
1	8w	114	GLN	C-N	5.79	1.41	1.33
1	8A	155	GLN	CA-C	5.79	1.60	1.52
1	8K	96	MET	CA-CB	5.79	1.62	1.53
1	93	108	THR	CA-C	-5.79	1.45	1.52
1	aD	118	MET	C-N	5.79	1.41	1.33
1	aO	194	ALA	CA-C	5.79	1.61	1.53
1	b2	104	ILE	CA-CB	5.79	1.61	1.54
1	bj	81	ASP	N-CA	5.79	1.53	1.46
1	bA	120	HIS	ND1-CE1	5.79	1.38	1.32
1	bJ	25	LYS	N-CA	-5.79	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bR	45	GLU	CA-CB	5.79	1.63	1.53
1	bT	12	HIS	CA-C	-5.79	1.45	1.52
1	cl	91	ILE	C-N	5.79	1.40	1.33
1	cp	16	SER	N-CA	5.79	1.53	1.45
1	cB	3	VAL	N-CA	-5.79	1.39	1.46
1	cY	79	GLU	N-CA	5.79	1.53	1.46
1	do	155	GLN	N-CA	-5.79	1.38	1.45
1	dY	148	THR	N-CA	5.79	1.53	1.45
1	en	24	VAL	CA-CB	5.79	1.62	1.54
1	eP	127	GLY	C-N	5.79	1.41	1.33
1	eR	7	GLN	N-CA	5.79	1.53	1.45
1	eY	170	LYS	C-N	5.79	1.41	1.33
1	eZ	161	PHE	CA-CB	5.79	1.63	1.53
1	1v	128	GLU	C-N	5.79	1.41	1.33
1	I	87	HIS	CD2-NE2	5.79	1.44	1.37
1	gM	159	GLU	CA-C	5.79	1.60	1.52
1	gO	121	ASN	CA-C	5.79	1.59	1.52
1	h0	168	PHE	C-N	5.79	1.42	1.34
1	hq	72	THR	C-O	-5.79	1.17	1.24
1	iM	143	ARG	N-CA	5.79	1.53	1.46
1	k5	164	TYR	C-N	5.79	1.41	1.34
1	ka	143	ARG	CD-NE	5.79	1.54	1.46
1	kp	142	VAL	N-CA	-5.79	1.39	1.46
1	l4	124	ILE	CA-C	5.79	1.58	1.52
1	lP	141	ILE	CA-CB	-5.79	1.47	1.54
1	2O	214	MET	N-CA	5.79	1.53	1.46
1	47	92	GLU	CA-CB	5.79	1.61	1.53
1	4e	132	ARG	CD-NE	5.79	1.54	1.46
1	4l	99	PRO	CA-C	5.79	1.58	1.52
1	4B	24	VAL	C-O	-5.79	1.17	1.24
1	4F	173	ARG	CD-NE	5.79	1.54	1.46
1	4K	18	ARG	C-N	5.79	1.41	1.33
1	4Y	143	ARG	CD-NE	5.79	1.54	1.46
1	5m	37	ILE	CA-CB	5.79	1.57	1.53
1	5S	187	GLU	C-N	5.79	1.41	1.33
1	6W	54	THR	CA-CB	5.79	1.62	1.53
1	9D	44	SER	CA-CB	5.79	1.62	1.53
1	ab	117	TRP	N-CA	5.79	1.53	1.46
1	ao	59	VAL	C-O	-5.79	1.17	1.24
1	aD	123	PRO	C-N	5.79	1.38	1.33
1	b0	151	LEU	CA-C	5.79	1.60	1.52
1	bW	8	GLY	N-CA	5.79	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c0	37	ILE	CA-CB	5.79	1.57	1.54
1	ct	94	GLY	N-CA	5.79	1.53	1.45
1	cB	210	THR	N-CA	-5.79	1.37	1.45
1	cW	171	THR	CA-C	-5.79	1.45	1.52
1	di	136	LEU	CA-CB	5.79	1.62	1.53
1	dE	42	ALA	C-N	5.79	1.41	1.33
1	fk	18	ARG	CA-C	-5.79	1.45	1.52
1	fE	146	SER	CA-CB	5.79	1.62	1.53
1	D	149	SER	CA-C	-5.79	1.45	1.52
1	gg	173	ARG	CD-NE	5.79	1.54	1.46
1	gn	87	HIS	CG-CD2	5.79	1.42	1.35
1	1D	131	LYS	CA-CB	5.79	1.62	1.53
1	gO	220	GLY	CA-C	-5.79	1.43	1.51
1	hJ	68	MET	CA-C	5.79	1.60	1.52
1	hP	58	THR	CA-C	-5.79	1.45	1.52
1	i7	120	HIS	N-CA	-5.79	1.38	1.45
1	iB	93	PRO	C-O	-5.79	1.16	1.24
1	iH	107	THR	C-N	5.79	1.41	1.33
1	iQ	112	GLN	CA-CB	5.79	1.62	1.53
1	j1	226	HIS	CA-C	-5.79	1.45	1.52
1	jb	130	TYR	CA-CB	5.79	1.62	1.53
1	jf	226	HIS	CB-CG	-5.79	1.42	1.50
1	jr	53	ASN	C-N	5.79	1.41	1.33
1	jr	122	PRO	C-N	5.79	1.41	1.33
1	ju	215	MET	N-CA	-5.79	1.39	1.46
1	jw	109	SER	CA-C	-5.79	1.45	1.52
1	jM	101	GLY	C-O	-5.79	1.16	1.23
1	jT	195	ASN	C-O	-5.79	1.17	1.24
1	20	5	ASN	CA-C	5.79	1.60	1.52
1	kd	202	LEU	N-CA	5.79	1.53	1.46
1	kh	16	SER	CA-C	-5.79	1.46	1.53
1	kj	21	ASN	CA-C	5.79	1.60	1.52
1	kF	132	ARG	CD-NE	5.79	1.54	1.46
1	kI	54	THR	C-N	5.79	1.41	1.33
1	kO	14	ALA	CA-CB	5.79	1.62	1.53
1	l3	180	GLU	CA-CB	5.79	1.62	1.53
1	ln	192	GLN	C-N	5.79	1.41	1.33
1	lw	30	LYS	CA-CB	5.79	1.65	1.53
1	lw	87	HIS	N-CA	-5.79	1.38	1.45
1	29	33	SER	CA-CB	5.79	1.61	1.53
1	2B	75	GLU	CA-C	5.79	1.60	1.52
1	2C	53	ASN	CA-C	5.79	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2L	101	GLY	N-CA	5.79	1.52	1.45
1	2L	105	ALA	N-CA	5.79	1.53	1.46
1	2P	20	LEU	C-N	5.79	1.41	1.33
1	37	180	GLU	N-CA	-5.79	1.39	1.46
1	3g	176	GLN	CA-C	5.79	1.60	1.52
1	3x	117	TRP	NE1-CE2	-5.79	1.31	1.37
1	3R	226	HIS	ND1-CE1	5.79	1.38	1.32
1	41	45	GLU	CA-C	5.79	1.60	1.52
1	46	36	VAL	CA-CB	-5.79	1.46	1.54
1	4c	147	PRO	N-CD	-5.79	1.39	1.47
1	4v	127	GLY	N-CA	5.79	1.52	1.45
1	4w	166	ASP	C-N	5.79	1.42	1.34
1	57	44	SER	CA-CB	5.79	1.61	1.53
1	59	181	VAL	CA-C	-5.79	1.45	1.52
1	6y	154	ARG	C-N	5.79	1.41	1.33
1	7a	108	THR	C-N	5.79	1.41	1.33
1	7N	22	ALA	CA-C	-5.79	1.45	1.52
1	7R	35	GLU	C-O	5.79	1.31	1.24
1	7T	138	LEU	CA-CB	5.79	1.62	1.53
1	8j	11	VAL	N-CA	5.79	1.52	1.46
1	8V	19	THR	CA-C	5.79	1.60	1.52
1	94	143	ARG	N-CA	5.79	1.53	1.46
1	9k	84	HIS	C-N	5.79	1.41	1.33
1	9o	127	GLY	C-O	-5.79	1.16	1.23
1	a9	26	VAL	CA-CB	5.79	1.61	1.54
1	ae	36	VAL	C-O	-5.79	1.17	1.24
1	as	131	LYS	CA-CB	5.79	1.62	1.53
1	ax	190	LEU	C-N	5.79	1.40	1.33
1	aF	215	MET	C-N	5.79	1.42	1.33
1	bz	5	ASN	N-CA	-5.79	1.38	1.46
1	bC	62	HIS	CG-ND1	-5.79	1.31	1.38
1	bR	229	ARG	CA-CB	5.79	1.62	1.53
1	1b	119	THR	C-N	5.79	1.41	1.33
1	c5	32	PHE	CA-CB	5.79	1.61	1.53
1	cO	133	TRP	C-O	-5.79	1.17	1.24
1	cZ	84	HIS	CD2-NE2	5.79	1.44	1.37
1	d4	192	GLN	C-N	5.79	1.41	1.33
1	da	112	GLN	C-N	5.79	1.41	1.33
1	dP	50	GLN	CA-C	5.79	1.60	1.52
1	dQ	83	LEU	CA-CB	5.79	1.62	1.53
1	e8	213	GLU	N-CA	-5.79	1.39	1.46
1	el	4	GLN	CA-C	5.79	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eu	142	VAL	CA-C	-5.79	1.45	1.52
1	eP	10	MET	CA-CB	5.79	1.61	1.53
1	fO	174	ALA	CA-C	5.79	1.60	1.52
1	g0	93	PRO	CA-C	-5.79	1.44	1.52
1	j	167	ARG	CA-C	-5.79	1.45	1.52
1	o	41	SER	CA-C	-5.79	1.45	1.52
1	q	143	ARG	CD-NE	5.79	1.54	1.46
1	z	80	TRP	CD2-CE3	5.79	1.49	1.40
1	gk	221	VAL	CA-C	5.79	1.59	1.52
1	gn	227	LYS	CA-CB	5.79	1.62	1.53
1	gz	131	LYS	CA-C	5.79	1.60	1.52
1	gB	217	ALA	CA-C	-5.79	1.45	1.53
1	h5	15	ILE	CA-CB	5.79	1.61	1.54
1	if	28	GLU	N-CA	-5.79	1.39	1.46
1	ja	31	ALA	CA-C	-5.79	1.48	1.53
1	1V	164	TYR	N-CA	5.79	1.53	1.46
1	jR	21	ASN	CA-C	5.79	1.60	1.52
1	jU	73	ILE	CA-CB	5.79	1.60	1.54
1	jZ	221	VAL	CA-CB	5.79	1.60	1.53
1	kz	121	ASN	CA-C	-5.79	1.45	1.52
1	lK	90	PRO	CA-C	-5.79	1.45	1.52
1	3j	110	THR	CA-C	5.79	1.61	1.53
1	3u	131	LYS	C-O	-5.79	1.17	1.24
1	3w	126	VAL	N-CA	-5.79	1.39	1.46
1	3P	201	ILE	N-CA	-5.79	1.39	1.46
1	66	24	VAL	CA-CB	-5.79	1.46	1.54
1	74	26	VAL	N-CA	5.79	1.53	1.46
1	8p	12	HIS	CD2-NE2	-5.79	1.31	1.37
1	8s	113	GLU	CA-C	5.79	1.60	1.52
1	94	17	PRO	CA-C	-5.79	1.44	1.52
1	96	31	ALA	C-N	5.79	1.41	1.33
1	9c	132	ARG	N-CA	-5.79	1.39	1.46
1	9u	75	GLU	N-CA	5.79	1.53	1.46
1	9Q	175	GLU	N-CA	5.79	1.53	1.46
1	ai	1	PRO	C-N	-5.79	1.25	1.33
1	aj	220	GLY	C-O	-5.79	1.18	1.24
1	1b	199	LYS	CA-CB	5.79	1.62	1.53
1	dy	191	VAL	CA-CB	-5.79	1.46	1.54
1	dM	1	PRO	N-CA	5.79	1.55	1.47
1	1n	224	PRO	N-CA	-5.79	1.40	1.47
1	dU	211	LEU	C-N	5.79	1.41	1.33
1	eO	18	ARG	NE-CZ	5.79	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f5	156	GLY	N-CA	5.79	1.52	1.44
1	fb	23	TRP	NE1-CE2	5.79	1.43	1.37
1	m	12	HIS	ND1-CE1	5.79	1.38	1.32
1	u	123	PRO	CA-CB	5.79	1.61	1.53
1	B	135	ILE	CA-CB	-5.79	1.47	1.54
1	g8	56	LEU	CA-C	5.79	1.60	1.52
1	g8	184	TRP	NE1-CE2	5.79	1.43	1.37
1	1C	140	LYS	N-CA	-5.79	1.39	1.46
1	hz	92	GLU	N-CA	-5.79	1.37	1.46
1	1K	82	ARG	CA-CB	5.79	1.62	1.53
1	i0	6	LEU	C-N	5.79	1.41	1.33
1	i7	123	PRO	C-N	5.79	1.38	1.33
1	1P	11	VAL	C-N	5.79	1.41	1.33
1	it	162	ARG	C-N	5.79	1.41	1.33
1	iO	81	ASP	CA-CB	5.79	1.62	1.53
1	iT	202	LEU	CA-CB	5.79	1.62	1.53
1	j2	115	ILE	CA-CB	-5.79	1.47	1.54
1	j8	44	SER	N-CA	-5.79	1.38	1.46
1	jd	161	PHE	C-N	5.79	1.41	1.33
1	jM	98	GLU	C-N	5.79	1.40	1.33
1	jN	209	ALA	CA-CB	5.79	1.61	1.53
1	ka	226	HIS	CA-C	-5.79	1.45	1.52
1	kq	226	HIS	ND1-CE1	5.79	1.38	1.32
1	ln	133	TRP	NE1-CE2	-5.79	1.31	1.37
1	lL	226	HIS	CE1-NE2	5.79	1.38	1.32
1	lP	147	PRO	CA-C	5.79	1.60	1.52
1	lQ	88	ALA	N-CA	-5.79	1.39	1.46
1	2z	120	HIS	CA-CB	5.79	1.62	1.53
1	3L	176	GLN	C-N	5.79	1.41	1.33
1	3N	41	SER	N-CA	5.79	1.53	1.46
1	3R	195	ASN	CA-CB	5.79	1.61	1.53
1	42	226	HIS	CA-CB	5.79	1.63	1.53
1	4q	212	GLU	C-N	5.79	1.42	1.33
1	4L	150	ILE	C-N	5.79	1.42	1.33
1	4S	197	ASP	CA-C	5.79	1.60	1.52
1	5c	206	GLY	C-N	5.79	1.40	1.34
1	5g	165	VAL	C-N	5.79	1.41	1.33
1	5j	48	THR	C-N	5.79	1.41	1.34
1	5y	155	GLN	N-CA	5.79	1.53	1.46
1	5R	209	ALA	C-N	5.79	1.41	1.33
1	5X	68	MET	CA-C	-5.79	1.45	1.52
1	6v	225	GLY	C-N	5.79	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6F	74	ASN	CA-CB	5.79	1.62	1.53
1	7E	82	ARG	N-CA	-5.79	1.39	1.46
1	8k	178	SER	CA-CB	5.79	1.62	1.53
1	8m	152	ASP	C-O	-5.79	1.16	1.24
1	8A	82	ARG	N-CA	-5.79	1.39	1.46
1	8I	154	ARG	CD-NE	5.79	1.54	1.46
1	8M	208	ALA	N-CA	-5.79	1.38	1.46
1	9Q	51	ASP	CA-C	-5.79	1.45	1.52
1	9R	141	ILE	CA-CB	-5.79	1.47	1.54
1	b8	28	GLU	CA-C	-5.79	1.45	1.52
1	br	132	ARG	CA-CB	5.79	1.62	1.53
1	bt	149	SER	CA-C	5.79	1.60	1.52
1	19	195	ASN	CA-C	5.79	1.59	1.53
1	bJ	92	GLU	C-O	-5.79	1.19	1.24
1	1a	11	VAL	CA-C	-5.79	1.45	1.52
1	cc	198	CYS	N-CA	-5.79	1.38	1.46
1	1d	224	PRO	CA-C	5.79	1.60	1.53
1	ck	160	PRO	C-N	5.79	1.41	1.33
1	co	42	ALA	CA-CB	5.79	1.62	1.53
1	de	73	ILE	CA-C	5.79	1.59	1.52
1	dk	148	THR	N-CA	5.79	1.53	1.46
1	dv	194	ALA	CA-C	5.79	1.60	1.52
1	dH	5	ASN	N-CA	-5.79	1.38	1.46
1	ee	117	TRP	C-O	-5.79	1.17	1.24
1	ex	133	TRP	CA-CB	5.79	1.62	1.53
1	eQ	22	ALA	C-N	5.79	1.41	1.33
1	eW	103	ASP	N-CA	-5.79	1.39	1.46
1	fd	59	VAL	CA-CB	-5.79	1.47	1.54
1	g0	195	ASN	CA-CB	5.79	1.61	1.53
1	g4	26	VAL	N-CA	5.79	1.53	1.46
1	r	10	MET	CA-CB	5.79	1.60	1.52
1	4	50	GLN	CA-C	-5.79	1.45	1.52
1	4	109	SER	N-CA	-5.79	1.38	1.46
1	gb	56	LEU	C-O	-5.78	1.17	1.24
1	gj	84	HIS	CA-C	-5.78	1.46	1.52
1	gO	87	HIS	ND1-CE1	5.78	1.38	1.32
1	gR	201	ILE	CA-CB	-5.78	1.47	1.54
1	h7	15	ILE	CA-C	5.78	1.58	1.52
1	hb	135	ILE	N-CA	5.78	1.53	1.46
1	hB	218	CYS	C-N	5.78	1.41	1.33
1	hD	111	LEU	CB-CG	5.78	1.65	1.53
1	i2	62	HIS	CA-C	-5.78	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i8	170	LYS	CA-C	-5.78	1.45	1.52
1	is	54	THR	CA-C	5.78	1.60	1.52
1	iB	64	ALA	CA-CB	5.78	1.62	1.53
1	j3	124	ILE	CA-C	5.78	1.58	1.53
1	j9	137	GLY	CA-C	-5.78	1.43	1.51
1	jC	190	LEU	CA-CB	5.78	1.62	1.53
1	jQ	80	TRP	CA-C	-5.78	1.45	1.52
1	k0	153	ILE	CB-CG1	5.78	1.65	1.53
1	ko	114	GLN	C-N	5.78	1.41	1.33
1	lA	219	GLN	CA-C	-5.78	1.45	1.52
1	2m	11	VAL	CA-C	-5.78	1.46	1.52
1	2p	82	ARG	CD-NE	5.78	1.54	1.46
1	2F	44	SER	C-N	5.78	1.41	1.33
1	2Q	49	PRO	CA-C	-5.78	1.43	1.52
1	3c	15	ILE	CA-CB	5.78	1.60	1.54
1	3c	171	THR	C-N	5.78	1.41	1.33
1	3e	16	SER	C-N	5.78	1.42	1.33
1	3k	17	PRO	C-N	5.78	1.41	1.33
1	3I	128	GLU	CA-CB	5.78	1.62	1.53
1	4c	125	PRO	N-CA	-5.78	1.38	1.48
1	4y	87	HIS	CD2-NE2	5.78	1.44	1.37
1	4D	173	ARG	CD-NE	5.78	1.54	1.46
1	4E	182	LYS	CA-CB	5.78	1.62	1.53
1	4H	104	ILE	CA-C	-5.78	1.45	1.52
1	4Q	148	THR	CA-C	-5.78	1.45	1.52
1	52	115	ILE	N-CA	-5.78	1.39	1.46
1	55	24	VAL	C-O	-5.78	1.17	1.24
1	5p	11	VAL	CA-C	-5.78	1.47	1.52
1	5z	28	GLU	CA-CB	5.78	1.62	1.53
1	66	218	CYS	CA-C	5.78	1.61	1.53
1	6h	140	LYS	CA-CB	5.78	1.62	1.53
1	6z	18	ARG	N-CA	-5.78	1.39	1.46
1	6L	224	PRO	CA-C	5.78	1.59	1.52
1	7w	181	VAL	CA-CB	-5.78	1.47	1.54
1	7L	184	TRP	C-O	-5.78	1.17	1.24
1	7N	6	LEU	CA-CB	5.78	1.64	1.53
1	7Q	199	LYS	CA-CB	5.78	1.63	1.53
1	8c	63	GLN	C-O	-5.78	1.17	1.24
1	8g	157	PRO	N-CA	-5.78	1.39	1.47
1	9q	201	ILE	CA-C	5.78	1.60	1.52
1	9r	138	LEU	C-N	5.78	1.41	1.33
1	9x	32	PHE	C-O	-5.78	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9C	81	ASP	C-N	5.78	1.41	1.33
1	9L	208	ALA	CA-C	5.78	1.60	1.53
1	9O	36	VAL	CA-CB	-5.78	1.46	1.54
1	9P	31	ALA	C-N	5.78	1.41	1.33
1	Y	96	MET	CA-CB	5.78	1.62	1.53
1	a5	185	MET	C-O	5.78	1.30	1.24
1	a6	205	LEU	N-CA	-5.78	1.39	1.46
1	aU	226	HIS	ND1-CE1	5.78	1.38	1.32
1	aZ	11	VAL	CA-C	5.78	1.59	1.52
1	b7	226	HIS	CG-ND1	5.78	1.44	1.38
1	bx	101	GLY	C-N	5.78	1.41	1.33
1	bI	44	SER	CA-CB	5.78	1.63	1.53
1	bK	12	HIS	CD2-NE2	5.78	1.44	1.37
1	bM	184	TRP	C-N	5.78	1.41	1.33
1	cl	160	PRO	CA-CB	-5.78	1.46	1.53
1	1e	97	ARG	CD-NE	5.78	1.54	1.46
1	1k	91	ILE	N-CA	5.78	1.53	1.46
1	du	15	ILE	CA-CB	-5.78	1.47	1.54
1	1o	103	ASP	CA-C	-5.78	1.45	1.52
1	em	31	ALA	CA-C	5.78	1.60	1.52
1	es	229	ARG	CA-C	-5.78	1.45	1.52
1	eW	10	MET	C-O	-5.78	1.16	1.23
1	1u	82	ARG	CD-NE	5.78	1.54	1.46
1	f5	124	ILE	CA-CB	5.78	1.59	1.54
1	1x	80	TRP	NE1-CE2	-5.78	1.31	1.37
1	fJ	167	ARG	CD-NE	5.78	1.54	1.46
1	fK	3	VAL	CA-CB	5.78	1.60	1.54
1	g2	149	SER	CA-C	-5.78	1.45	1.52
1	l	113	GLU	C-N	5.78	1.41	1.33
1	G	98	GLU	CA-CB	5.78	1.61	1.53
1	gV	32	PHE	N-CA	-5.78	1.38	1.46
1	1N	102	SER	CA-CB	5.78	1.64	1.53
1	iq	151	LEU	C-N	5.78	1.42	1.33
1	iJ	131	LYS	CA-CB	5.78	1.62	1.53
1	k7	23	TRP	CA-C	5.78	1.60	1.52
1	kp	218	CYS	CA-CB	5.78	1.63	1.53
1	2l	87	HIS	CE1-NE2	5.78	1.38	1.32
1	2A	139	ASN	CA-C	5.78	1.60	1.52
1	3j	163	ASP	CA-C	-5.78	1.45	1.52
1	3n	184	TRP	CA-CB	5.78	1.62	1.53
1	3t	3	VAL	CA-CB	-5.78	1.47	1.54
1	4P	117	TRP	CA-C	5.78	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4V	40	PHE	CA-C	5.78	1.60	1.52
1	5h	215	MET	C-N	5.78	1.42	1.33
1	7k	43	LEU	N-CA	5.78	1.53	1.46
1	7R	103	ASP	CA-C	5.78	1.60	1.52
1	8q	62	HIS	CA-C	5.78	1.60	1.52
1	8Z	192	GLN	C-N	5.78	1.42	1.33
1	9v	123	PRO	CA-CB	5.78	1.61	1.53
1	ah	156	GLY	N-CA	5.78	1.52	1.44
1	aC	125	PRO	N-CA	5.78	1.51	1.47
1	bn	173	ARG	CA-C	5.78	1.61	1.52
1	dR	183	ASN	N-CA	-5.78	1.39	1.46
1	eG	226	HIS	CA-CB	5.78	1.62	1.53
1	fB	226	HIS	CA-C	5.78	1.59	1.52
1	ga	3	VAL	CA-C	-5.78	1.45	1.52
1	1C	121	ASN	CA-C	5.78	1.58	1.52
1	gR	136	LEU	CA-C	-5.78	1.45	1.52
1	gW	92	GLU	CA-C	5.78	1.60	1.53
1	hb	194	ALA	CA-CB	5.78	1.62	1.53
1	hl	117	TRP	CA-CB	5.78	1.62	1.53
1	hp	61	GLY	CA-C	-5.78	1.46	1.52
1	hq	184	TRP	CA-CB	5.78	1.62	1.53
1	hS	13	GLN	C-N	5.78	1.41	1.33
1	i7	58	THR	C-O	5.78	1.30	1.24
1	ii	93	PRO	N-CA	-5.78	1.40	1.47
1	iy	96	MET	CA-CB	5.78	1.63	1.53
1	iI	45	GLU	C-N	5.78	1.40	1.33
1	j9	221	VAL	N-CA	5.78	1.51	1.46
1	jt	45	GLU	C-N	5.78	1.41	1.33
1	jS	195	ASN	CA-CB	5.78	1.61	1.53
1	ka	25	LYS	CA-CB	5.78	1.62	1.53
1	ks	30	LYS	N-CA	5.78	1.53	1.45
1	ks	187	GLU	C-O	-5.78	1.16	1.24
1	kT	184	TRP	CA-CB	5.78	1.62	1.53
1	kY	72	THR	C-N	5.78	1.41	1.33
1	l8	183	ASN	CA-CB	5.78	1.62	1.53
1	lf	40	PHE	C-N	5.78	1.41	1.34
1	lq	161	PHE	N-CA	5.78	1.53	1.46
1	ly	19	THR	CA-C	5.78	1.60	1.52
1	ly	98	GLU	C-N	5.78	1.40	1.33
1	lC	144	MET	N-CA	-5.78	1.39	1.46
1	lN	136	LEU	C-N	5.78	1.41	1.33
1	2c	45	GLU	C-O	-5.78	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2y	112	GLN	CA-CB	5.78	1.63	1.53
1	2T	63	GLN	N-CA	-5.78	1.38	1.46
1	2Y	127	GLY	C-N	5.78	1.41	1.33
1	3u	105	ALA	C-N	5.78	1.42	1.33
1	4a	121	ASN	N-CA	5.78	1.52	1.46
1	4I	140	LYS	CA-C	-5.78	1.45	1.52
1	57	230	VAL	CA-C	5.78	1.60	1.52
1	5i	62	HIS	N-CA	5.78	1.55	1.46
1	5l	112	GLN	N-CA	5.78	1.53	1.46
1	5G	21	ASN	N-CA	5.78	1.53	1.46
1	5M	213	GLU	N-CA	-5.78	1.38	1.46
1	6k	67	GLN	C-N	5.78	1.41	1.33
1	7l	18	ARG	CA-C	5.78	1.60	1.52
1	7r	95	GLN	CA-C	5.78	1.59	1.52
1	87	83	LEU	CA-C	-5.78	1.45	1.52
1	8n	167	ARG	C-N	5.78	1.41	1.33
1	8F	37	ILE	CA-CB	5.78	1.57	1.54
1	9f	227	LYS	N-CA	-5.78	1.38	1.45
1	9o	147	PRO	CA-C	5.78	1.61	1.52
1	9G	86	VAL	C-N	-5.78	1.25	1.33
1	9L	19	THR	CA-C	-5.78	1.45	1.52
1	9R	181	VAL	CA-CB	-5.78	1.47	1.54
1	9W	200	THR	CA-C	5.78	1.60	1.52
1	a1	5	ASN	CA-C	5.78	1.59	1.52
1	ah	84	HIS	ND1-CE1	5.78	1.38	1.32
1	11	141	ILE	N-CA	5.78	1.53	1.46
1	aJ	56	LEU	CA-CB	5.78	1.62	1.53
1	aO	214	MET	CA-CB	5.78	1.62	1.53
1	16	59	VAL	N-CA	-5.78	1.40	1.46
1	be	154	ARG	CA-CB	5.78	1.64	1.53
1	bq	165	VAL	CA-C	5.78	1.60	1.52
1	1a	41	SER	C-N	5.78	1.41	1.33
1	bO	162	ARG	CD-NE	5.78	1.54	1.46
1	ca	227	LYS	C-N	-5.78	1.25	1.33
1	cg	76	GLU	N-CA	-5.78	1.39	1.46
1	cm	180	GLU	C-N	5.78	1.41	1.33
1	d0	110	THR	C-N	5.78	1.41	1.33
1	dl	56	LEU	CA-CB	5.78	1.62	1.53
1	dr	149	SER	N-CA	-5.78	1.39	1.46
1	dR	159	GLU	CA-C	5.78	1.59	1.53
1	1o	82	ARG	CD-NE	5.78	1.54	1.46
1	f6	211	LEU	CA-C	5.78	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f9	190	LEU	CA-C	5.78	1.60	1.52
1	fw	29	GLU	CA-C	5.78	1.60	1.52
1	fw	96	MET	N-CA	5.78	1.52	1.45
1	g2	40	PHE	C-N	5.78	1.41	1.33
1	g3	63	GLN	CA-C	-5.78	1.45	1.52
1	a	45	GLU	C-O	-5.78	1.16	1.23
1	y	133	TRP	CA-C	-5.78	1.45	1.52
1	N	51	ASP	CA-C	-5.78	1.45	1.52
1	5	219	GLN	CA-CB	5.78	1.61	1.53
1	gd	220	GLY	N-CA	5.78	1.53	1.45
1	gl	74	ASN	C-N	5.78	1.41	1.33
1	gp	214	MET	N-CA	5.78	1.53	1.46
1	gM	86	VAL	CA-CB	5.78	1.62	1.54
1	h5	199	LYS	CA-CB	5.78	1.62	1.53
1	hC	76	GLU	CA-CB	5.78	1.62	1.53
1	iF	201	ILE	CA-C	-5.78	1.45	1.52
1	iH	23	TRP	NE1-CE2	-5.78	1.31	1.37
1	jO	132	ARG	CD-NE	5.78	1.54	1.46
1	kj	167	ARG	CD-NE	5.78	1.54	1.46
1	kU	53	ASN	N-CA	5.78	1.53	1.46
1	lG	146	SER	C-O	-5.78	1.17	1.24
1	lL	213	GLU	CA-CB	-5.78	1.44	1.53
1	lR	207	PRO	CA-CB	5.78	1.61	1.53
1	4G	11	VAL	N-CA	5.78	1.52	1.46
1	5Z	86	VAL	C-N	5.78	1.41	1.33
1	6q	30	LYS	CA-CB	5.78	1.62	1.53
1	7E	42	ALA	C-O	-5.78	1.16	1.24
1	7H	139	ASN	N-CA	5.78	1.53	1.46
1	7U	85	PRO	CA-CB	5.78	1.57	1.53
1	93	207	PRO	C-N	5.78	1.41	1.33
1	9f	108	THR	N-CA	5.78	1.53	1.46
1	9M	23	TRP	CA-CB	5.78	1.62	1.53
1	aI	25	LYS	C-O	-5.78	1.17	1.24
1	aL	182	LYS	CA-C	5.78	1.60	1.52
1	aR	45	GLU	CA-C	-5.78	1.45	1.52
1	b4	169	TYR	CA-C	5.78	1.60	1.52
1	b7	77	ALA	N-CA	-5.78	1.39	1.46
1	bh	136	LEU	N-CA	5.78	1.53	1.46
1	bL	135	ILE	CA-C	5.78	1.60	1.52
1	bR	192	GLN	N-CA	-5.78	1.39	1.46
1	bW	102	SER	N-CA	5.78	1.53	1.46
1	bY	136	LEU	CA-C	5.78	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ck	227	LYS	CA-CB	5.78	1.62	1.53
1	cs	162	ARG	CD-NE	5.78	1.54	1.46
1	cv	32	PHE	CA-CB	5.78	1.61	1.53
1	dS	71	GLU	CA-C	-5.78	1.45	1.52
1	eb	207	PRO	CA-CB	5.78	1.61	1.53
1	ee	196	PRO	N-CD	5.78	1.55	1.47
1	eo	32	PHE	C-N	5.78	1.40	1.33
1	eD	87	HIS	N-CA	5.78	1.53	1.46
1	eT	18	ARG	CA-C	5.78	1.60	1.52
1	fr	84	HIS	CE1-NE2	-5.78	1.26	1.32
1	fR	78	ALA	CA-C	-5.78	1.45	1.52
1	1B	115	ILE	CB-CG1	5.78	1.65	1.53
1	h5	68	MET	C-N	5.78	1.41	1.33
1	h8	212	GLU	C-N	5.78	1.41	1.33
1	hf	87	HIS	ND1-CE1	5.78	1.38	1.32
1	hh	157	PRO	N-CA	-5.78	1.39	1.47
1	hq	226	HIS	CB-CG	5.78	1.58	1.50
1	hs	220	GLY	CA-C	5.78	1.60	1.51
1	hJ	67	GLN	CA-CB	5.78	1.62	1.53
1	i3	138	LEU	C-N	-5.78	1.26	1.33
1	ie	67	GLN	CA-CB	5.78	1.62	1.53
1	ik	119	THR	CA-CB	-5.78	1.43	1.53
1	ir	73	ILE	CA-CB	5.78	1.61	1.54
1	iF	142	VAL	N-CA	-5.78	1.38	1.46
1	jI	3	VAL	CA-CB	-5.78	1.46	1.54
1	kv	58	THR	CA-C	5.78	1.60	1.52
1	l8	52	LEU	C-O	-5.78	1.17	1.24
1	lr	125	PRO	CA-CB	5.78	1.57	1.53
1	lB	179	GLN	C-N	5.78	1.41	1.33
1	29	2	ILE	CB-CG1	5.78	1.65	1.53
1	39	44	SER	CA-C	-5.78	1.44	1.52
1	3D	220	GLY	CA-C	5.78	1.60	1.52
1	3N	194	ALA	C-N	5.78	1.42	1.33
1	3Q	62	HIS	CG-ND1	5.78	1.44	1.38
1	4j	230	VAL	N-CA	-5.78	1.39	1.46
1	4A	18	ARG	CA-C	-5.78	1.45	1.52
1	52	128	GLU	C-O	5.78	1.30	1.24
1	56	6	LEU	CA-CB	5.78	1.62	1.53
1	5a	125	PRO	C-O	-5.78	1.16	1.24
1	5e	61	GLY	CA-C	-5.78	1.43	1.52
1	5w	191	VAL	CA-C	5.78	1.60	1.52
1	5F	208	ALA	CA-CB	5.78	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5L	7	GLN	CA-CB	5.78	1.62	1.53
1	6c	9	GLN	CA-C	-5.78	1.45	1.52
1	7I	79	GLU	N-CA	5.78	1.53	1.46
1	8h	103	ASP	CA-CB	5.78	1.62	1.53
1	8L	38	PRO	N-CD	-5.78	1.39	1.47
1	98	24	VAL	CA-CB	5.78	1.61	1.54
1	9e	173	ARG	CA-C	5.78	1.60	1.52
1	9s	191	VAL	C-O	-5.78	1.17	1.24
1	9Q	17	PRO	C-N	5.78	1.41	1.33
1	af	95	GLN	CA-C	-5.78	1.45	1.53
1	11	8	GLY	C-N	5.78	1.41	1.33
1	aF	92	GLU	CA-C	5.78	1.60	1.52
1	aW	114	GLN	N-CA	-5.78	1.39	1.46
1	b3	54	THR	C-N	5.78	1.41	1.33
1	b9	84	HIS	CG-CD2	5.78	1.42	1.35
1	17	57	ASN	C-N	5.78	1.41	1.33
1	bo	169	TYR	N-CA	-5.78	1.39	1.46
1	bI	92	GLU	CA-C	5.78	1.59	1.53
1	c3	84	HIS	N-CA	5.78	1.53	1.46
1	cd	14	ALA	CA-C	-5.78	1.45	1.52
1	cG	127	GLY	CA-C	-5.78	1.45	1.52
1	cH	179	GLN	C-O	-5.78	1.17	1.24
1	cR	183	ASN	N-CA	-5.78	1.39	1.46
1	cS	81	ASP	CA-C	-5.78	1.45	1.52
1	cU	37	ILE	N-CA	5.78	1.53	1.46
1	d5	189	LEU	CA-C	5.78	1.60	1.52
1	dm	72	THR	C-N	5.78	1.40	1.33
1	dy	155	GLN	CA-C	-5.78	1.45	1.52
1	1m	128	GLU	C-N	5.78	1.41	1.33
1	dO	46	GLY	C-N	5.78	1.41	1.33
1	ev	33	SER	N-CA	-5.78	1.41	1.46
1	fP	52	LEU	CA-CB	5.78	1.62	1.53
1	fR	172	LEU	CA-C	-5.78	1.45	1.52
1	g1	210	THR	CA-C	-5.78	1.45	1.53
1	k	8	GLY	CA-C	-5.78	1.43	1.51
1	r	147	PRO	CA-C	5.78	1.61	1.52
1	t	88	ALA	CA-CB	5.78	1.63	1.53
1	T	8	GLY	CA-C	5.78	1.60	1.51
1	g9	12	HIS	ND1-CE1	5.78	1.38	1.32
1	gf	48	THR	CA-C	5.78	1.59	1.52
1	1E	110	THR	C-N	5.78	1.41	1.33
1	gI	150	ILE	CA-CB	-5.78	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hf	80	TRP	CZ2-CH2	5.78	1.48	1.37
1	1I	193	ASN	CA-CB	5.78	1.62	1.53
1	hg	32	PHE	C-N	5.78	1.39	1.33
1	hk	124	ILE	CA-CB	5.78	1.59	1.54
1	hK	45	GLU	CA-C	5.78	1.60	1.52
1	hO	18	ARG	CA-C	-5.78	1.45	1.52
1	i6	115	ILE	CA-CB	5.78	1.61	1.54
1	ie	97	ARG	CD-NE	5.78	1.54	1.46
1	ie	99	PRO	CA-C	5.78	1.58	1.52
1	it	68	MET	N-CA	5.78	1.53	1.46
1	iH	17	PRO	C-N	5.78	1.41	1.33
1	iL	132	ARG	CZ-NH1	-5.78	1.24	1.32
1	iT	125	PRO	CA-CB	5.78	1.57	1.53
1	j3	154	ARG	CD-NE	5.78	1.54	1.46
1	jt	35	GLU	CA-C	-5.78	1.44	1.52
1	1Y	162	ARG	CD-NE	5.78	1.54	1.46
1	k4	67	GLN	CA-C	5.78	1.60	1.52
1	kx	228	ALA	CA-C	-5.78	1.45	1.52
1	kB	15	ILE	N-CA	5.78	1.53	1.46
1	kB	99	PRO	CA-C	-5.78	1.45	1.52
1	kF	164	TYR	N-CA	5.78	1.53	1.46
1	kL	156	GLY	N-CA	5.78	1.52	1.44
1	le	111	LEU	CA-CB	5.78	1.62	1.53
1	lF	20	LEU	N-CA	-5.78	1.39	1.46
1	lG	1	PRO	N-CD	5.78	1.55	1.47
1	lQ	191	VAL	N-CA	-5.78	1.39	1.46
1	2e	52	LEU	N-CA	-5.78	1.39	1.46
1	2E	97	ARG	CZ-NH1	-5.78	1.24	1.32
1	2H	43	LEU	CA-CB	5.78	1.63	1.53
1	2R	218	CYS	CA-C	5.78	1.60	1.52
1	2Z	20	LEU	N-CA	-5.78	1.39	1.46
1	35	18	ARG	C-O	5.78	1.31	1.24
1	3q	59	VAL	N-CA	-5.78	1.39	1.46
1	3r	85	PRO	N-CA	-5.78	1.40	1.47
1	3z	82	ARG	CA-CB	5.78	1.62	1.53
1	3B	63	GLN	N-CA	5.78	1.53	1.46
1	4c	208	ALA	CA-C	-5.78	1.46	1.53
1	4d	166	ASP	CA-CB	5.78	1.62	1.53
1	4G	204	ALA	CA-C	5.78	1.60	1.52
1	58	78	ALA	C-N	5.78	1.41	1.33
1	5t	159	GLU	C-N	5.78	1.40	1.33
1	5u	99	PRO	N-CD	-5.78	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5M	167	ARG	CD-NE	5.78	1.54	1.46
1	64	90	PRO	CA-C	-5.78	1.45	1.52
1	6Q	12	HIS	N-CA	-5.78	1.39	1.46
1	6V	134	ILE	CA-CB	-5.78	1.47	1.54
1	6X	210	THR	CA-C	5.78	1.59	1.52
1	7q	15	ILE	CA-CB	5.78	1.59	1.54
1	7E	222	GLY	CA-C	5.78	1.59	1.51
1	8m	227	LYS	CA-CB	5.78	1.63	1.53
1	8q	7	GLN	C-N	5.78	1.40	1.33
1	8t	29	GLU	C-O	-5.78	1.16	1.23
1	8O	84	HIS	CG-ND1	5.78	1.44	1.38
1	8O	182	LYS	CA-C	5.78	1.60	1.52
1	91	133	TRP	CA-CB	5.78	1.62	1.53
1	94	139	ASN	CA-C	5.78	1.60	1.52
1	9M	71	GLU	CA-CB	5.78	1.62	1.53
1	9N	7	GLN	N-CA	5.78	1.54	1.45
1	9R	120	HIS	N-CA	-5.78	1.38	1.46
1	Z	84	HIS	ND1-CE1	5.78	1.38	1.32
1	12	202	LEU	N-CA	-5.78	1.39	1.46
1	au	119	THR	N-CA	5.78	1.52	1.46
1	aC	61	GLY	CA-C	-5.78	1.44	1.52
1	aE	20	LEU	CA-C	5.78	1.60	1.52
1	aI	56	LEU	C-O	-5.78	1.17	1.24
1	aN	36	VAL	N-CA	-5.78	1.40	1.46
1	bj	24	VAL	CA-CB	-5.78	1.47	1.54
1	bm	186	THR	N-CA	-5.78	1.39	1.46
1	bu	79	GLU	CA-CB	5.78	1.62	1.53
1	bU	136	LEU	N-CA	-5.78	1.39	1.46
1	1g	121	ASN	CA-C	-5.78	1.47	1.52
1	dE	198	CYS	CA-CB	5.78	1.62	1.53
1	ea	65	ALA	C-N	5.78	1.41	1.33
1	ee	29	GLU	CA-CB	5.78	1.62	1.53
1	eu	155	GLN	CA-C	5.78	1.59	1.52
1	fy	84	HIS	CA-CB	5.78	1.60	1.52
1	fz	120	HIS	CG-CD2	5.78	1.42	1.35
1	fA	174	ALA	N-CA	-5.78	1.39	1.46
1	fN	135	ILE	CB-CG1	5.78	1.65	1.53
1	a	226	HIS	ND1-CE1	5.78	1.38	1.32
1	p	120	HIS	CG-CD2	5.78	1.42	1.35
1	K	87	HIS	ND1-CE1	5.78	1.38	1.32
1	ga	168	PHE	C-N	5.77	1.41	1.33
1	hu	207	PRO	C-N	5.77	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hR	178	SER	CA-CB	5.77	1.62	1.53
1	ih	205	LEU	N-CA	5.77	1.53	1.46
1	jb	135	ILE	CA-C	5.77	1.59	1.52
1	jU	165	VAL	CA-C	5.77	1.60	1.52
1	k3	79	GLU	CA-C	5.77	1.60	1.52
1	kG	1	PRO	N-CD	5.77	1.55	1.47
1	2S	202	LEU	N-CA	-5.77	1.39	1.46
1	3P	91	ILE	CA-CB	-5.77	1.46	1.54
1	5l	68	MET	C-N	-5.77	1.26	1.33
1	5r	168	PHE	N-CA	5.77	1.53	1.46
1	5r	192	GLN	C-N	5.77	1.41	1.33
1	6k	156	GLY	CA-C	5.77	1.60	1.51
1	6C	20	LEU	N-CA	-5.77	1.39	1.46
1	7o	169	TYR	N-CA	5.77	1.53	1.46
1	7M	95	GLN	CA-CB	5.77	1.61	1.53
1	8T	142	VAL	CA-CB	-5.77	1.47	1.54
1	8Y	6	LEU	C-O	5.77	1.31	1.23
1	9C	70	LYS	CA-CB	5.77	1.62	1.53
1	9G	62	HIS	CA-CB	-5.77	1.44	1.53
1	a8	101	GLY	CA-C	5.77	1.58	1.52
1	16	124	ILE	CA-C	5.77	1.57	1.53
1	bl	40	PHE	CA-C	-5.77	1.45	1.52
1	bD	199	LYS	CA-C	-5.77	1.45	1.52
1	cD	167	ARG	CA-CB	5.77	1.62	1.53
1	cY	152	ASP	C-N	5.77	1.40	1.33
1	dx	213	GLU	CA-C	5.77	1.60	1.52
1	e9	186	THR	CA-C	-5.77	1.45	1.52
1	eq	201	ILE	CA-C	5.77	1.60	1.52
1	ev	39	MET	CA-C	-5.77	1.45	1.52
1	v	41	SER	N-CA	-5.77	1.39	1.46
1	v	134	ILE	CA-CB	-5.77	1.47	1.54
1	3	123	PRO	C-N	5.77	1.38	1.33
1	gv	162	ARG	CA-C	-5.77	1.45	1.52
1	1E	85	PRO	CA-CB	5.77	1.61	1.53
1	gX	143	ARG	CA-C	5.77	1.60	1.52
1	hu	226	HIS	CB-CG	5.77	1.58	1.50
1	hw	162	ARG	CA-C	5.77	1.60	1.52
1	hY	170	LYS	C-N	5.77	1.41	1.33
1	hZ	120	HIS	CA-C	5.77	1.59	1.52
1	1P	144	MET	N-CA	-5.77	1.39	1.46
1	jg	37	ILE	CA-C	5.77	1.58	1.52
1	jt	173	ARG	CA-C	-5.77	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jz	146	SER	CA-C	5.77	1.60	1.53
1	kv	195	ASN	CA-C	5.77	1.59	1.53
1	kw	36	VAL	C-O	-5.77	1.17	1.24
1	kM	62	HIS	CD2-NE2	5.77	1.44	1.37
1	kQ	166	ASP	C-N	5.77	1.42	1.34
1	kS	195	ASN	C-N	5.77	1.41	1.34
1	l3	99	PRO	CA-C	-5.77	1.47	1.52
1	27	10	MET	CA-C	5.77	1.60	1.52
1	li	14	ALA	C-N	5.77	1.41	1.33
1	2P	165	VAL	CA-CB	-5.77	1.47	1.54
1	2X	149	SER	C-N	5.77	1.41	1.33
1	2Z	18	ARG	NE-CZ	-5.77	1.26	1.33
1	3o	149	SER	CA-C	5.77	1.59	1.52
1	3F	24	VAL	N-CA	5.77	1.53	1.46
1	3P	149	SER	CA-C	5.77	1.60	1.52
1	3U	216	THR	C-N	5.77	1.41	1.33
1	3X	154	ARG	CZ-NH1	-5.77	1.24	1.32
1	4b	53	ASN	C-N	-5.77	1.26	1.33
1	4R	145	TYR	CA-C	5.77	1.60	1.52
1	6p	87	HIS	ND1-CE1	5.77	1.38	1.32
1	7x	205	LEU	C-N	5.77	1.42	1.33
1	7F	226	HIS	CG-CD2	-5.77	1.29	1.35
1	80	62	HIS	CG-ND1	-5.77	1.31	1.38
1	82	168	PHE	C-N	5.77	1.41	1.33
1	87	169	TYR	C-N	5.77	1.41	1.33
1	89	103	ASP	C-O	-5.77	1.17	1.24
1	8b	198	CYS	N-CA	-5.77	1.39	1.46
1	9H	196	PRO	N-CA	-5.77	1.40	1.47
1	9X	227	LYS	CA-C	5.77	1.60	1.52
1	a8	44	SER	N-CA	-5.77	1.38	1.46
1	ab	162	ARG	CD-NE	5.77	1.54	1.46
1	ac	119	THR	N-CA	5.77	1.53	1.46
1	aq	149	SER	C-N	-5.77	1.27	1.33
1	ax	96	MET	CA-CB	5.77	1.62	1.53
1	aE	228	ALA	C-O	-5.77	1.16	1.24
1	aM	105	ALA	CA-CB	5.77	1.63	1.53
1	aO	36	VAL	CA-CB	-5.77	1.47	1.54
1	aR	41	SER	C-N	5.77	1.41	1.33
1	aV	217	ALA	CA-C	5.77	1.60	1.52
1	bu	194	ALA	CA-C	5.77	1.60	1.53
1	cb	66	MET	N-CA	-5.77	1.39	1.46
1	cV	37	ILE	CA-C	5.77	1.57	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cZ	58	THR	CA-CB	5.77	1.63	1.53
1	d1	19	THR	CA-C	-5.77	1.45	1.52
1	d8	200	THR	N-CA	5.77	1.53	1.46
1	1j	4	GLN	CA-CB	5.77	1.63	1.53
1	dn	204	ALA	C-O	-5.77	1.16	1.24
1	dy	3	VAL	C-N	5.77	1.41	1.33
1	dP	103	ASP	C-N	5.77	1.41	1.33
1	eN	114	GLN	C-N	5.77	1.41	1.33
1	fe	223	GLY	CA-C	5.77	1.60	1.51
1	fC	15	ILE	N-CA	-5.77	1.39	1.46
1	fD	176	GLN	CA-C	-5.77	1.44	1.52
1	fM	140	LYS	CA-CB	5.77	1.62	1.53
1	fR	69	LEU	C-N	5.77	1.41	1.33
1	g5	124	ILE	N-CA	5.77	1.50	1.46
1	s	147	PRO	CA-C	5.77	1.60	1.52
1	A	187	GLU	N-CA	-5.77	1.39	1.46
1	gw	117	TRP	CA-C	5.77	1.60	1.52
1	gX	24	VAL	C-O	-5.77	1.17	1.24
1	h9	16	SER	CA-C	-5.77	1.47	1.53
1	hV	1	PRO	N-CA	5.77	1.55	1.47
1	hY	28	GLU	CA-CB	5.77	1.62	1.53
1	i0	169	TYR	CG-CD1	5.77	1.51	1.39
1	jC	158	LYS	CA-CB	5.77	1.61	1.53
1	k9	198	CYS	C-N	5.77	1.41	1.34
1	kk	4	GLN	CA-CB	5.77	1.61	1.53
1	le	132	ARG	CZ-NH2	-5.77	1.25	1.33
1	2N	12	HIS	ND1-CE1	5.77	1.38	1.32
1	3d	177	ALA	N-CA	-5.77	1.39	1.46
1	3O	53	ASN	N-CA	5.77	1.53	1.46
1	44	24	VAL	CA-C	5.77	1.59	1.52
1	6e	25	LYS	C-N	5.77	1.40	1.34
1	7e	36	VAL	C-N	5.77	1.42	1.33
1	7P	44	SER	CA-CB	5.77	1.62	1.53
1	8C	180	GLU	N-CA	5.77	1.53	1.46
1	8L	167	ARG	C-N	5.77	1.41	1.33
1	9b	221	VAL	CA-CB	-5.77	1.47	1.54
1	9g	166	ASP	CA-C	5.77	1.60	1.52
1	9J	164	TYR	N-CA	5.77	1.53	1.46
1	9N	15	ILE	CA-CB	5.77	1.60	1.54
1	9R	126	VAL	N-CA	5.77	1.53	1.46
1	a1	97	ARG	CD-NE	5.77	1.54	1.46
1	aF	108	THR	C-N	5.77	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b4	130	TYR	CA-CB	5.77	1.62	1.53
1	ck	87	HIS	ND1-CE1	5.77	1.38	1.32
1	ct	226	HIS	CG-ND1	5.77	1.44	1.38
1	eI	151	LEU	N-CA	-5.77	1.38	1.46
1	eU	104	ILE	CA-CB	5.77	1.61	1.54
1	a	192	GLN	CA-C	5.77	1.60	1.52
1	gB	124	ILE	N-CA	-5.77	1.41	1.46
1	gN	27	VAL	CA-CB	-5.77	1.47	1.54
1	gX	97	ARG	CD-NE	5.77	1.54	1.46
1	h0	33	SER	N-CA	5.77	1.51	1.46
1	h2	84	HIS	CG-CD2	-5.77	1.29	1.35
1	hr	177	ALA	CA-C	5.77	1.60	1.52
1	hB	120	HIS	C-N	5.77	1.38	1.33
1	ix	192	GLN	CA-CB	5.77	1.62	1.53
1	jl	91	ILE	CA-C	5.77	1.59	1.52
1	jx	223	GLY	C-N	5.77	1.40	1.34
1	k2	28	GLU	CA-C	5.77	1.60	1.52
1	k8	173	ARG	CZ-NH2	-5.77	1.25	1.33
1	kh	187	GLU	N-CA	-5.77	1.39	1.46
1	ks	37	ILE	N-CA	-5.77	1.39	1.46
1	kM	62	HIS	CA-C	-5.77	1.45	1.53
1	kU	173	ARG	CA-C	-5.77	1.44	1.52
1	lh	87	HIS	CB-CG	-5.77	1.42	1.50
1	lm	109	SER	CA-C	-5.77	1.45	1.52
1	2k	48	THR	CA-CB	5.77	1.60	1.53
1	2k	135	ILE	N-CA	5.77	1.53	1.46
1	2x	98	GLU	CA-CB	5.77	1.64	1.53
1	2U	130	TYR	CA-CB	5.77	1.62	1.53
1	3h	210	THR	N-CA	5.77	1.53	1.46
1	3q	120	HIS	ND1-CE1	5.77	1.38	1.32
1	3w	222	GLY	CA-C	-5.77	1.46	1.52
1	3x	83	LEU	C-N	5.77	1.40	1.33
1	3z	118	MET	N-CA	-5.77	1.39	1.46
1	3X	124	ILE	CA-C	-5.77	1.48	1.53
1	41	41	SER	CA-CB	5.77	1.62	1.53
1	4e	84	HIS	N-CA	-5.77	1.41	1.46
1	4y	132	ARG	NE-CZ	-5.77	1.26	1.33
1	5w	70	LYS	CA-CB	5.77	1.62	1.53
1	5F	167	ARG	CD-NE	5.77	1.54	1.46
1	5T	143	ARG	CZ-NH2	-5.77	1.25	1.33
1	6l	84	HIS	ND1-CE1	5.77	1.38	1.32
1	71	92	GLU	C-O	-5.77	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	76	162	ARG	CA-CB	5.77	1.62	1.53
1	7C	214	MET	CA-CB	5.77	1.62	1.53
1	7S	105	ALA	C-N	5.77	1.41	1.33
1	7W	204	ALA	C-O	5.77	1.30	1.24
1	8d	164	TYR	CA-C	-5.77	1.45	1.52
1	8f	94	GLY	C-N	5.77	1.42	1.33
1	8J	18	ARG	CD-NE	5.77	1.54	1.46
1	8O	118	MET	N-CA	5.77	1.53	1.46
1	8X	221	VAL	CA-C	5.77	1.60	1.52
1	9m	213	GLU	CA-CB	-5.77	1.44	1.53
1	9q	168	PHE	C-O	5.77	1.30	1.24
1	9w	62	HIS	CA-CB	5.77	1.63	1.53
1	Z	53	ASN	C-O	-5.77	1.17	1.24
1	ab	132	ARG	C-N	5.77	1.41	1.33
1	ae	178	SER	CA-CB	5.77	1.63	1.53
1	11	81	ASP	N-CA	-5.77	1.38	1.46
1	aw	76	GLU	N-CA	-5.77	1.39	1.46
1	aV	138	LEU	CA-CB	5.77	1.62	1.53
1	ba	132	ARG	CD-NE	5.77	1.54	1.46
1	bb	173	ARG	C-N	5.77	1.42	1.33
1	bc	205	LEU	CA-CB	5.77	1.62	1.53
1	bu	200	THR	CA-C	-5.77	1.45	1.52
1	bO	62	HIS	CA-C	-5.77	1.45	1.53
1	bW	230	VAL	CA-CB	5.77	1.60	1.54
1	c3	150	ILE	CA-CB	5.77	1.61	1.54
1	ca	2	ILE	CA-CB	-5.77	1.47	1.54
1	1d	84	HIS	ND1-CE1	5.77	1.38	1.32
1	1i	150	ILE	C-O	-5.77	1.17	1.24
1	du	141	ILE	CA-C	5.77	1.60	1.52
1	dL	229	ARG	CD-NE	5.77	1.54	1.46
1	e2	53	ASN	C-N	5.77	1.41	1.33
1	e6	127	GLY	N-CA	-5.77	1.38	1.45
1	1q	182	LYS	CA-CB	5.77	1.62	1.53
1	ew	215	MET	CA-CB	5.77	1.62	1.53
1	eK	37	ILE	CA-CB	5.77	1.61	1.54
1	fQ	12	HIS	CE1-NE2	-5.77	1.26	1.32
1	fX	9	GLN	CA-C	5.77	1.60	1.52
1	a	83	LEU	N-CA	-5.77	1.39	1.46
1	z	18	ARG	C-N	-5.77	1.26	1.33
1	F	18	ARG	CA-CB	5.77	1.62	1.53
1	P	90	PRO	C-N	5.77	1.41	1.33
1	gu	143	ARG	CA-CB	5.77	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gI	7	GLN	CA-C	5.77	1.59	1.52
1	gR	137	GLY	C-N	5.77	1.41	1.33
1	hn	146	SER	C-N	5.77	1.41	1.34
1	hx	143	ARG	CD-NE	5.77	1.54	1.46
1	1M	45	GLU	N-CA	5.77	1.53	1.46
1	hZ	170	LYS	N-CA	-5.77	1.39	1.46
1	im	22	ALA	CA-C	5.77	1.60	1.52
1	ip	212	GLU	N-CA	5.77	1.53	1.46
1	iP	33	SER	CA-C	5.77	1.60	1.52
1	jd	126	VAL	N-CA	5.77	1.53	1.46
1	je	72	THR	N-CA	-5.77	1.39	1.46
1	jz	14	ALA	CA-C	5.77	1.60	1.52
1	jR	210	THR	CA-C	5.77	1.60	1.52
1	jZ	33	SER	C-N	5.77	1.39	1.34
1	k4	127	GLY	N-CA	5.77	1.53	1.45
1	ki	37	ILE	CA-C	5.77	1.57	1.52
1	kr	23	TRP	CA-CB	5.77	1.62	1.53
1	kx	73	ILE	C-O	-5.77	1.17	1.24
1	kE	112	GLN	N-CA	-5.77	1.39	1.46
1	kZ	98	GLU	N-CA	5.77	1.52	1.45
1	lo	56	LEU	N-CA	-5.77	1.39	1.46
1	lt	149	SER	CA-C	-5.77	1.45	1.52
1	lv	159	GLU	CA-C	5.77	1.60	1.53
1	2m	14	ALA	CA-C	5.77	1.60	1.52
1	2o	100	ARG	C-N	5.77	1.40	1.33
1	2L	134	ILE	C-N	5.77	1.41	1.33
1	3g	35	GLU	CA-CB	5.77	1.63	1.53
1	3i	189	LEU	CA-C	5.77	1.60	1.52
1	3j	104	ILE	C-O	-5.77	1.17	1.24
1	3V	111	LEU	C-O	-5.77	1.17	1.24
1	4k	92	GLU	C-N	5.77	1.40	1.33
1	4r	197	ASP	C-N	5.77	1.41	1.33
1	4G	126	VAL	CA-CB	-5.77	1.48	1.54
1	59	135	ILE	N-CA	-5.77	1.40	1.46
1	5h	196	PRO	C-N	5.77	1.41	1.33
1	5j	8	GLY	CA-C	-5.77	1.43	1.51
1	5q	147	PRO	CA-C	-5.77	1.44	1.52
1	5Q	166	ASP	CA-C	5.77	1.60	1.52
1	6u	160	PRO	CA-C	5.77	1.59	1.52
1	6v	14	ALA	CA-C	5.77	1.60	1.52
1	6v	180	GLU	CA-C	-5.77	1.45	1.52
1	6F	87	HIS	CA-CB	5.77	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	70	57	ASN	C-N	5.77	1.42	1.33
1	75	154	ARG	CA-C	-5.77	1.45	1.52
1	7l	53	ASN	CA-CB	5.77	1.62	1.53
1	7m	132	ARG	CA-C	5.77	1.60	1.52
1	7O	74	ASN	C-N	5.77	1.41	1.33
1	8b	107	THR	CB-OG1	-5.77	1.34	1.43
1	8m	229	ARG	CA-C	5.77	1.59	1.52
1	8F	198	CYS	C-N	-5.77	1.26	1.33
1	8X	8	GLY	CA-C	-5.77	1.45	1.51
1	9w	132	ARG	CD-NE	5.77	1.54	1.46
1	Z	185	MET	C-N	5.77	1.41	1.33
1	a8	113	GLU	CA-C	5.77	1.60	1.52
1	b3	202	LEU	N-CA	-5.77	1.39	1.46
1	16	167	ARG	CA-C	5.77	1.60	1.52
1	bd	138	LEU	C-O	-5.77	1.17	1.24
1	br	15	ILE	N-CA	-5.77	1.39	1.46
1	cg	71	GLU	CA-CB	5.77	1.62	1.53
1	cj	104	ILE	CA-CB	-5.77	1.46	1.54
1	dS	124	ILE	CA-C	5.77	1.57	1.53
1	dS	171	THR	CA-CB	5.77	1.62	1.53
1	e7	184	TRP	CD2-CE3	5.77	1.49	1.40
1	en	145	TYR	CA-CB	5.77	1.61	1.53
1	eP	168	PHE	CA-C	-5.77	1.45	1.52
1	eS	124	ILE	CA-CB	5.77	1.61	1.54
1	f8	144	MET	N-CA	5.77	1.53	1.46
1	f8	175	GLU	CA-CB	5.77	1.62	1.53
1	fc	145	TYR	CA-CB	5.77	1.61	1.53
1	fp	3	VAL	CA-C	5.77	1.59	1.52
1	fq	185	MET	CA-CB	5.77	1.63	1.53
1	1A	128	GLU	C-N	5.77	1.41	1.33
1	i	188	THR	CA-C	-5.77	1.48	1.52
1	l	6	LEU	CA-CB	5.77	1.62	1.53
1	p	180	GLU	C-N	5.77	1.41	1.33
1	q	177	ALA	CA-C	5.77	1.60	1.52
1	G	132	ARG	CD-NE	5.77	1.54	1.46
1	hS	170	LYS	CA-C	-5.77	1.45	1.52
1	i6	173	ARG	CD-NE	5.77	1.54	1.46
1	i7	51	ASP	CA-CB	5.77	1.62	1.53
1	j1	73	ILE	C-O	-5.77	1.17	1.24
1	jA	2	ILE	CA-CB	-5.77	1.46	1.54
1	jW	179	GLN	CA-CB	5.77	1.62	1.53
1	l7	80	TRP	NE1-CE2	-5.77	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lK	26	VAL	CA-CB	-5.77	1.48	1.54
1	2V	123	PRO	N-CA	5.77	1.54	1.47
1	30	181	VAL	CA-CB	5.77	1.61	1.54
1	3m	100	ARG	C-N	5.77	1.41	1.33
1	3y	201	ILE	N-CA	5.77	1.53	1.46
1	3Q	212	GLU	CA-CB	5.77	1.62	1.53
1	54	186	THR	CA-CB	-5.77	1.44	1.53
1	67	174	ALA	CA-C	5.77	1.61	1.52
1	6o	17	PRO	C-O	-5.77	1.17	1.24
1	6v	206	GLY	N-CA	5.77	1.52	1.44
1	6B	139	ASN	CA-C	5.77	1.60	1.52
1	7f	70	LYS	N-CA	-5.77	1.39	1.46
1	7q	130	TYR	CZ-OH	5.77	1.50	1.38
1	7s	23	TRP	N-CA	5.77	1.53	1.46
1	8c	228	ALA	CA-C	5.77	1.60	1.52
1	aK	201	ILE	CA-C	5.77	1.59	1.52
1	bJ	103	ASP	C-N	5.77	1.40	1.33
1	c3	130	TYR	C-N	5.77	1.41	1.33
1	cU	34	PRO	CA-CB	5.77	1.61	1.53
1	ek	32	PHE	CA-C	-5.77	1.47	1.53
1	eM	201	ILE	CA-CB	-5.77	1.47	1.54
1	eV	50	GLN	C-O	-5.77	1.16	1.24
1	f7	130	TYR	CA-C	5.77	1.60	1.52
1	fW	20	LEU	CA-C	5.77	1.60	1.52
1	a	105	ALA	C-N	5.77	1.40	1.33
1	gd	117	TRP	CA-CB	5.76	1.62	1.53
1	1E	85	PRO	C-N	5.76	1.40	1.33
1	h6	149	SER	CA-C	5.76	1.60	1.52
1	hy	57	ASN	C-N	5.76	1.41	1.33
1	hD	186	THR	CA-C	-5.76	1.45	1.52
1	i0	193	ASN	C-N	5.76	1.41	1.33
1	1N	135	ILE	CA-CB	5.76	1.61	1.54
1	i9	211	LEU	CA-CB	5.76	1.62	1.53
1	1P	224	PRO	C-O	-5.76	1.16	1.24
1	iv	9	GLN	C-N	5.76	1.41	1.33
1	iv	46	GLY	CA-C	-5.76	1.45	1.51
1	iJ	139	ASN	CA-C	5.76	1.60	1.52
1	1S	103	ASP	CA-CB	5.76	1.62	1.53
1	j5	77	ALA	N-CA	-5.76	1.39	1.46
1	jd	202	LEU	N-CA	-5.76	1.39	1.46
1	ji	31	ALA	CA-CB	5.76	1.63	1.53
1	jx	87	HIS	CA-C	-5.76	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jH	195	ASN	C-N	5.76	1.41	1.34
1	k1	163	ASP	N-CA	-5.76	1.38	1.46
1	kj	83	LEU	C-N	5.76	1.40	1.33
1	ku	175	GLU	CA-CB	5.76	1.63	1.53
1	kV	126	VAL	CA-CB	5.76	1.62	1.54
1	kX	125	PRO	N-CA	-5.76	1.40	1.47
1	27	29	GLU	C-N	5.76	1.43	1.33
1	31	112	GLN	N-CA	-5.76	1.39	1.46
1	33	41	SER	N-CA	5.76	1.53	1.46
1	34	179	GLN	C-N	5.76	1.41	1.33
1	3H	163	ASP	C-N	5.76	1.41	1.33
1	3P	191	VAL	CA-CB	5.76	1.61	1.54
1	3Z	193	ASN	N-CA	5.76	1.52	1.46
1	41	87	HIS	CD2-NE2	5.76	1.44	1.37
1	42	218	CYS	CA-CB	5.76	1.62	1.53
1	4t	3	VAL	N-CA	5.76	1.52	1.46
1	4y	12	HIS	ND1-CE1	5.76	1.38	1.32
1	52	20	LEU	N-CA	-5.76	1.39	1.46
1	5U	206	GLY	CA-C	-5.76	1.43	1.51
1	6z	128	GLU	CA-C	5.76	1.60	1.52
1	6A	209	ALA	N-CA	-5.76	1.39	1.46
1	6D	216	THR	C-N	5.76	1.41	1.33
1	6N	72	THR	N-CA	5.76	1.53	1.46
1	81	85	PRO	N-CA	-5.76	1.40	1.47
1	81	92	GLU	CA-C	5.76	1.59	1.53
1	8C	55	MET	CA-C	5.76	1.60	1.52
1	8W	95	GLN	C-N	5.76	1.40	1.33
1	99	190	LEU	N-CA	5.76	1.53	1.46
1	9J	122	PRO	N-CD	-5.76	1.39	1.47
1	9X	166	ASP	C-O	5.76	1.30	1.24
1	9Y	55	MET	N-CA	5.76	1.53	1.46
1	ai	201	ILE	C-N	5.76	1.41	1.33
1	as	193	ASN	CA-C	5.76	1.60	1.52
1	aw	2	ILE	CA-C	-5.76	1.45	1.52
1	aG	112	GLN	CA-CB	5.76	1.62	1.53
1	14	153	ILE	CA-C	5.76	1.59	1.52
1	15	12	HIS	CB-CG	5.76	1.58	1.50
1	b7	22	ALA	CA-C	-5.76	1.45	1.52
1	b7	94	GLY	CA-C	-5.76	1.43	1.51
1	bb	87	HIS	CB-CG	5.76	1.58	1.50
1	bc	123	PRO	C-N	5.76	1.39	1.33
1	cg	153	ILE	CA-CB	5.76	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cE	4	GLN	N-CA	-5.76	1.39	1.46
1	cH	189	LEU	CA-CB	5.76	1.62	1.53
1	cQ	111	LEU	C-N	5.76	1.41	1.33
1	cS	94	GLY	C-N	5.76	1.41	1.33
1	d6	208	ALA	N-CA	-5.76	1.38	1.46
1	d8	1	PRO	C-N	5.76	1.41	1.33
1	dd	66	MET	CA-C	-5.76	1.45	1.52
1	ed	229	ARG	CD-NE	5.76	1.54	1.46
1	es	130	TYR	CA-CB	5.76	1.62	1.53
1	eI	210	THR	C-N	5.76	1.41	1.33
1	eL	167	ARG	C-N	5.76	1.41	1.33
1	f6	136	LEU	C-N	5.76	1.40	1.33
1	2	85	PRO	CA-C	5.76	1.60	1.52
1	D	121	ASN	CA-C	5.76	1.57	1.52
1	I	143	ARG	CA-CB	5.76	1.62	1.53
1	4	110	THR	C-N	5.76	1.41	1.33
1	Q	95	GLN	CA-C	5.76	1.60	1.52
1	W	15	ILE	N-CA	-5.76	1.38	1.46
1	gx	52	LEU	C-N	5.76	1.41	1.33
1	h7	120	HIS	C-N	5.76	1.40	1.33
1	h8	191	VAL	CA-CB	-5.76	1.47	1.54
1	hQ	122	PRO	N-CD	-5.76	1.39	1.47
1	iF	133	TRP	CA-C	5.76	1.60	1.52
1	kL	102	SER	N-CA	-5.76	1.38	1.46
1	25	217	ALA	CA-CB	5.76	1.62	1.53
1	l6	45	GLU	CA-CB	5.76	1.60	1.53
1	la	78	ALA	C-N	5.76	1.41	1.33
1	ll	68	MET	CA-C	5.76	1.60	1.52
1	2a	147	PRO	N-CA	5.76	1.54	1.47
1	2f	62	HIS	CG-CD2	-5.76	1.29	1.35
1	2R	184	TRP	CA-C	5.76	1.60	1.52
1	4u	226	HIS	CG-ND1	5.76	1.44	1.38
1	5O	7	GLN	CA-C	-5.76	1.45	1.52
1	6i	66	MET	CA-C	-5.76	1.45	1.52
1	6r	168	PHE	CA-C	5.76	1.60	1.52
1	6T	138	LEU	CB-CG	5.76	1.65	1.53
1	88	142	VAL	N-CA	-5.76	1.40	1.46
1	8y	62	HIS	CE1-NE2	5.76	1.38	1.32
1	8H	184	TRP	C-N	5.76	1.41	1.33
1	9H	178	SER	N-CA	5.76	1.53	1.45
1	9X	221	VAL	N-CA	-5.76	1.39	1.46
1	aw	86	VAL	C-N	5.76	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aw	198	CYS	CA-C	-5.76	1.44	1.52
1	az	1	PRO	C-N	5.76	1.40	1.33
1	aW	60	GLY	N-CA	5.76	1.53	1.45
1	15	77	ALA	C-N	5.76	1.41	1.33
1	dH	195	ASN	CA-C	-5.76	1.47	1.53
1	1m	166	ASP	C-N	5.76	1.42	1.33
1	el	114	GLN	C-N	5.76	1.41	1.34
1	eI	87	HIS	CA-CB	5.76	1.60	1.53
1	fd	123	PRO	N-CA	-5.76	1.40	1.47
1	g3	2	ILE	N-CA	5.76	1.53	1.46
1	k	89	GLY	CA-C	5.76	1.60	1.51
1	V	133	TRP	CA-CB	5.76	1.62	1.53
1	he	22	ALA	C-N	-5.76	1.26	1.33
1	hA	152	ASP	N-CA	5.76	1.52	1.46
1	hP	100	ARG	NE-CZ	-5.76	1.26	1.33
1	hY	59	VAL	CA-CB	-5.76	1.47	1.54
1	i7	177	ALA	C-N	5.76	1.41	1.33
1	jb	55	MET	N-CA	-5.76	1.39	1.46
1	1U	97	ARG	N-CA	5.76	1.53	1.46
1	jf	57	ASN	N-CA	5.76	1.53	1.46
1	js	135	ILE	CA-C	5.76	1.59	1.52
1	jH	158	LYS	N-CA	-5.76	1.39	1.46
1	k4	48	THR	CA-C	5.76	1.60	1.52
1	k5	23	TRP	C-N	5.76	1.41	1.33
1	ke	12	HIS	C-O	-5.76	1.16	1.23
1	kK	73	ILE	CA-C	-5.76	1.45	1.52
1	kP	3	VAL	CA-C	5.76	1.58	1.53
1	lB	50	GLN	N-CA	-5.76	1.39	1.46
1	2E	133	TRP	CA-C	5.76	1.60	1.52
1	2E	170	LYS	C-N	-5.76	1.25	1.33
1	2Q	18	ARG	CZ-NH2	-5.76	1.25	1.33
1	2X	138	LEU	CA-CB	5.76	1.62	1.53
1	3K	82	ARG	C-N	5.76	1.41	1.33
1	3Z	117	TRP	CA-CB	5.76	1.62	1.53
1	44	90	PRO	C-N	-5.76	1.26	1.33
1	47	18	ARG	C-O	-5.76	1.17	1.24
1	4b	141	ILE	N-CA	5.76	1.53	1.46
1	4j	50	GLN	C-N	5.76	1.41	1.33
1	4j	93	PRO	N-CA	5.76	1.53	1.47
1	4k	200	THR	N-CA	5.76	1.53	1.46
1	4q	83	LEU	CA-CB	5.76	1.62	1.53
1	4v	70	LYS	CA-C	-5.76	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4E	97	ARG	N-CA	-5.76	1.39	1.45
1	4N	184	TRP	N-CA	5.76	1.53	1.46
1	4V	143	ARG	CA-C	-5.76	1.45	1.52
1	5n	74	ASN	C-N	5.76	1.41	1.33
1	5B	217	ALA	C-N	5.76	1.40	1.33
1	5G	71	GLU	CA-CB	5.76	1.62	1.53
1	5I	3	VAL	C-N	5.76	1.41	1.33
1	5U	219	GLN	CA-C	-5.76	1.44	1.52
1	5W	199	LYS	N-CA	5.76	1.53	1.46
1	6l	188	THR	CA-CB	-5.76	1.45	1.53
1	6B	212	GLU	C-N	5.76	1.41	1.33
1	6Y	20	LEU	C-N	5.76	1.41	1.33
1	6Z	45	GLU	C-N	5.76	1.41	1.33
1	7k	185	MET	C-N	5.76	1.41	1.33
1	7I	44	SER	N-CA	5.76	1.53	1.46
1	7J	30	LYS	CA-C	5.76	1.60	1.52
1	7O	46	GLY	C-N	5.76	1.41	1.33
1	85	148	THR	C-N	5.76	1.40	1.33
1	87	192	GLN	CA-C	-5.76	1.45	1.52
1	93	163	ASP	CA-C	5.76	1.60	1.52
1	9H	123	PRO	C-N	5.76	1.39	1.33
1	Y	32	PHE	CA-C	-5.76	1.45	1.53
1	ap	132	ARG	CA-C	5.76	1.60	1.52
1	aI	62	HIS	ND1-CE1	-5.76	1.26	1.32
1	aN	189	LEU	CA-CB	5.76	1.62	1.53
1	aO	152	ASP	N-CA	5.76	1.53	1.46
1	b4	116	GLY	C-N	5.76	1.41	1.33
1	bJ	119	THR	C-O	-5.76	1.17	1.24
1	bK	197	ASP	CA-C	-5.76	1.45	1.52
1	bU	191	VAL	C-N	5.76	1.41	1.33
1	ce	20	LEU	CA-C	5.76	1.60	1.52
1	cG	24	VAL	CA-C	-5.76	1.45	1.52
1	cK	55	MET	C-N	5.76	1.41	1.33
1	cK	189	LEU	N-CA	5.76	1.53	1.46
1	cU	54	THR	CA-C	5.76	1.60	1.52
1	cY	20	LEU	N-CA	-5.76	1.39	1.46
1	dc	1	PRO	N-CA	5.76	1.55	1.47
1	dp	173	ARG	CD-NE	5.76	1.54	1.46
1	e1	28	GLU	N-CA	-5.76	1.39	1.46
1	en	206	GLY	C-N	5.76	1.42	1.33
1	eq	38	PRO	N-CA	-5.76	1.40	1.47
1	es	87	HIS	CG-CD2	5.76	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eW	221	VAL	CA-CB	-5.76	1.47	1.54
1	fK	55	MET	CA-C	-5.76	1.45	1.52
1	fS	155	GLN	CA-C	-5.76	1.45	1.52
1	p	201	ILE	C-O	5.76	1.30	1.24
1	E	134	ILE	CA-CB	5.76	1.61	1.54
1	E	177	ALA	C-O	5.76	1.30	1.23
1	F	112	GLN	CA-CB	5.76	1.62	1.53
1	M	73	ILE	CA-C	-5.76	1.45	1.52
1	R	151	LEU	CA-C	-5.76	1.44	1.52
1	gn	139	ASN	CA-C	5.76	1.60	1.52
1	gu	54	THR	N-CA	-5.76	1.39	1.46
1	gJ	80	TRP	C-N	5.76	1.41	1.33
1	gO	129	ILE	C-N	5.76	1.41	1.33
1	h0	134	ILE	CA-C	5.76	1.60	1.52
1	h3	86	VAL	CA-CB	5.76	1.59	1.53
1	hb	62	HIS	ND1-CE1	-5.76	1.26	1.32
1	hK	86	VAL	C-N	5.76	1.41	1.33
1	hN	114	GLN	CA-C	5.76	1.60	1.52
1	ii	28	GLU	C-N	5.76	1.41	1.33
1	ii	172	LEU	C-N	5.76	1.41	1.34
1	ip	31	ALA	C-N	5.76	1.41	1.33
1	iu	120	HIS	CD2-NE2	5.76	1.44	1.37
1	iG	104	ILE	N-CA	-5.76	1.39	1.46
1	iO	203	LYS	CA-C	-5.76	1.45	1.52
1	iU	216	THR	C-O	-5.76	1.16	1.24
1	j1	103	ASP	CA-C	-5.76	1.44	1.52
1	jc	166	ASP	C-N	5.76	1.41	1.34
1	1V	170	LYS	CA-C	5.76	1.60	1.52
1	jm	15	ILE	C-O	-5.76	1.17	1.24
1	jw	12	HIS	C-O	-5.76	1.17	1.23
1	jz	79	GLU	CA-C	-5.76	1.45	1.52
1	jD	220	GLY	C-N	5.76	1.41	1.33
1	kF	6	LEU	N-CA	5.76	1.53	1.46
1	kS	88	ALA	N-CA	-5.76	1.38	1.45
1	l1	103	ASP	C-N	5.76	1.41	1.33
1	l8	59	VAL	N-CA	-5.76	1.39	1.46
1	lK	41	SER	CA-CB	5.76	1.62	1.53
1	lP	66	MET	N-CA	-5.76	1.39	1.46
1	2g	200	THR	CA-CB	-5.76	1.44	1.53
1	2S	20	LEU	CA-C	5.76	1.60	1.52
1	31	56	LEU	N-CA	-5.76	1.39	1.46
1	31	224	PRO	CA-C	-5.76	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3b	50	GLN	N-CA	-5.76	1.39	1.46
1	3d	105	ALA	C-N	5.76	1.41	1.33
1	3n	22	ALA	N-CA	-5.76	1.39	1.46
1	47	90	PRO	CA-C	5.76	1.60	1.52
1	4D	108	THR	CA-C	-5.76	1.44	1.52
1	4Q	208	ALA	C-N	5.76	1.41	1.33
1	4T	175	GLU	CA-CB	5.76	1.63	1.53
1	4Z	28	GLU	CA-CB	5.76	1.62	1.53
1	5q	224	PRO	CA-C	5.76	1.59	1.52
1	6a	123	PRO	N-CD	5.76	1.55	1.47
1	6o	51	ASP	CA-CB	5.76	1.62	1.53
1	77	104	ILE	N-CA	5.76	1.53	1.46
1	7a	165	VAL	CA-C	5.76	1.60	1.52
1	7K	158	LYS	CA-CB	5.76	1.60	1.53
1	8i	140	LYS	C-O	5.76	1.30	1.24
1	8D	54	THR	CA-C	-5.76	1.45	1.52
1	8Q	119	THR	N-CA	5.76	1.53	1.46
1	8V	132	ARG	NE-CZ	-5.76	1.26	1.33
1	9F	176	GLN	N-CA	-5.76	1.39	1.46
1	9W	229	ARG	C-N	5.76	1.41	1.33
1	9Y	225	GLY	N-CA	5.76	1.51	1.45
1	ae	68	MET	N-CA	5.76	1.53	1.46
1	b2	29	GLU	CA-C	-5.76	1.45	1.52
1	bg	56	LEU	CA-CB	5.76	1.62	1.53
1	bj	201	ILE	N-CA	-5.76	1.39	1.46
1	by	173	ARG	CA-CB	5.76	1.62	1.53
1	bE	131	LYS	CA-CB	5.76	1.62	1.53
1	bI	175	GLU	CA-C	-5.76	1.45	1.52
1	cp	121	ASN	CA-C	5.76	1.57	1.52
1	cU	141	ILE	CA-CB	5.76	1.61	1.54
1	cZ	206	GLY	CA-C	5.76	1.60	1.51
1	d7	76	GLU	CA-CB	5.76	1.62	1.53
1	1k	75	GLU	CA-CB	5.76	1.62	1.53
1	du	86	VAL	CA-CB	5.76	1.60	1.54
1	dA	51	ASP	N-CA	5.76	1.53	1.46
1	ez	132	ARG	N-CA	-5.76	1.39	1.46
1	eT	201	ILE	CA-CB	5.76	1.60	1.54
1	f7	92	GLU	C-N	5.76	1.38	1.33
1	fq	124	ILE	N-CA	5.76	1.50	1.46
1	fN	106	GLY	CA-C	-5.76	1.44	1.51
1	fW	37	ILE	C-N	5.76	1.41	1.34
1	z	184	TRP	NE1-CE2	5.76	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	58	THR	C-N	5.76	1.40	1.33
1	6	197	ASP	CA-C	5.76	1.60	1.52
1	gY	114	GLN	CA-CB	5.76	1.62	1.53
1	jf	53	ASN	CA-CB	5.76	1.62	1.53
1	jn	85	PRO	CA-CB	5.76	1.61	1.53
1	k2	37	ILE	CA-C	5.76	1.58	1.52
1	kc	133	TRP	CZ2-CH2	5.76	1.48	1.37
1	kq	212	GLU	CA-C	-5.76	1.45	1.52
1	kz	43	LEU	CA-CB	5.76	1.62	1.53
1	kJ	226	HIS	CE1-NE2	-5.76	1.26	1.32
1	kL	197	ASP	CA-CB	5.76	1.62	1.53
1	27	27	VAL	CA-C	5.76	1.60	1.52
1	2G	13	GLN	C-N	5.76	1.41	1.33
1	3t	149	SER	N-CA	5.76	1.53	1.45
1	4f	207	PRO	CA-CB	-5.76	1.46	1.54
1	4D	44	SER	N-CA	5.76	1.53	1.46
1	4F	100	ARG	CA-C	5.76	1.60	1.53
1	4O	125	PRO	N-CD	5.76	1.55	1.47
1	7a	136	LEU	CA-C	5.76	1.60	1.52
1	7O	32	PHE	CA-CB	5.76	1.60	1.52
1	7W	185	MET	C-O	-5.76	1.17	1.24
1	8i	133	TRP	CD2-CE2	-5.76	1.31	1.41
1	8I	78	ALA	N-CA	-5.76	1.39	1.46
1	8J	154	ARG	N-CA	-5.76	1.39	1.46
1	9l	223	GLY	N-CA	5.76	1.53	1.44
1	9v	67	GLN	CA-CB	5.76	1.62	1.53
1	9J	161	PHE	C-N	5.76	1.41	1.33
1	Z	125	PRO	CA-CB	5.76	1.57	1.53
1	aW	230	VAL	CA-C	5.76	1.59	1.52
1	bh	130	TYR	CA-CB	5.76	1.62	1.53
1	cm	121	ASN	N-CA	5.76	1.55	1.45
1	cu	143	ARG	C-N	5.76	1.41	1.33
1	db	60	GLY	N-CA	5.76	1.53	1.45
1	e5	135	ILE	CA-CB	-5.76	1.47	1.54
1	ep	83	LEU	CA-C	-5.76	1.45	1.52
1	fe	144	MET	N-CA	5.76	1.53	1.46
1	fD	140	LYS	N-CA	-5.76	1.39	1.46
1	fN	55	MET	N-CA	-5.76	1.39	1.46
1	1A	26	VAL	CA-CB	-5.76	1.46	1.54
1	1B	157	PRO	N-CD	-5.76	1.39	1.47
1	A	167	ARG	N-CA	5.76	1.53	1.46
1	K	213	GLU	C-N	5.76	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5	55	MET	C-N	5.76	1.41	1.33
1	gp	223	GLY	N-CA	5.76	1.52	1.44
1	gC	130	TYR	C-N	5.76	1.41	1.33
1	hi	145	TYR	CA-CB	5.76	1.62	1.53
1	hG	62	HIS	ND1-CE1	5.76	1.38	1.32
1	hI	52	LEU	C-N	5.76	1.41	1.33
1	ii	7	GLN	CA-CB	5.76	1.63	1.53
1	is	36	VAL	C-N	5.76	1.39	1.33
1	1Q	32	PHE	N-CA	-5.76	1.39	1.46
1	iR	159	GLU	C-O	-5.76	1.16	1.23
1	j8	140	LYS	CA-CB	5.76	1.62	1.53
1	1Y	152	ASP	CA-C	5.76	1.60	1.52
1	jQ	195	ASN	CA-CB	5.76	1.60	1.53
1	k8	180	GLU	CA-CB	5.76	1.62	1.53
1	ky	79	GLU	C-N	5.76	1.41	1.33
1	kL	38	PRO	C-O	-5.76	1.17	1.24
1	lb	161	PHE	C-N	5.76	1.41	1.33
1	lg	192	GLN	CA-C	5.76	1.60	1.52
1	lh	41	SER	CA-C	-5.76	1.45	1.52
1	lj	146	SER	C-O	-5.76	1.16	1.24
1	lA	45	GLU	CA-C	5.76	1.60	1.52
1	lE	216	THR	C-N	5.76	1.41	1.33
1	2a	1	PRO	N-CD	5.76	1.55	1.47
1	2x	155	GLN	N-CA	5.76	1.53	1.46
1	2C	227	LYS	CA-C	-5.76	1.44	1.52
1	31	29	GLU	C-N	5.76	1.40	1.33
1	31	162	ARG	NE-CZ	5.76	1.39	1.33
1	3q	115	ILE	CA-CB	-5.76	1.47	1.54
1	3D	216	THR	N-CA	5.76	1.53	1.46
1	3I	72	THR	CA-C	-5.76	1.45	1.52
1	46	91	ILE	CA-CB	-5.76	1.47	1.54
1	4n	208	ALA	CA-C	5.76	1.60	1.52
1	4I	92	GLU	N-CA	5.76	1.53	1.45
1	4M	198	CYS	C-O	-5.76	1.17	1.24
1	57	165	VAL	CA-C	-5.76	1.45	1.52
1	5l	171	THR	C-N	5.76	1.41	1.33
1	5W	2	ILE	CA-CB	-5.76	1.47	1.54
1	6d	58	THR	CA-C	-5.76	1.45	1.52
1	6k	123	PRO	CA-C	5.76	1.59	1.52
1	6P	90	PRO	CA-C	-5.76	1.45	1.52
1	7v	74	ASN	CA-C	-5.76	1.45	1.52
1	7y	21	ASN	CA-CB	5.76	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	84	119	THR	N-CA	5.76	1.53	1.46
1	87	171	THR	C-N	5.76	1.41	1.33
1	8F	1	PRO	N-CD	5.76	1.55	1.47
1	8I	72	THR	C-N	-5.76	1.26	1.33
1	8L	200	THR	CA-CB	-5.76	1.44	1.53
1	8U	74	ASN	CA-CB	5.76	1.62	1.53
1	90	54	THR	CA-C	5.76	1.60	1.52
1	9a	188	THR	CA-C	-5.76	1.47	1.52
1	9s	62	HIS	CG-ND1	-5.76	1.31	1.38
1	9v	181	VAL	C-O	-5.76	1.17	1.24
1	9I	33	SER	N-CA	-5.76	1.37	1.46
1	9P	203	LYS	CA-C	-5.76	1.44	1.52
1	9Z	195	ASN	CA-C	5.76	1.59	1.53
1	az	52	LEU	CA-CB	5.76	1.62	1.53
1	aT	26	VAL	CA-C	5.76	1.59	1.52
1	b1	192	GLN	N-CA	-5.76	1.38	1.46
1	bh	162	ARG	CD-NE	5.76	1.54	1.46
1	bA	39	MET	C-N	-5.76	1.26	1.33
1	bG	179	GLN	C-N	5.76	1.41	1.34
1	c8	40	PHE	CA-CB	5.76	1.62	1.53
1	cw	211	LEU	CA-C	5.76	1.60	1.52
1	cB	179	GLN	N-CA	5.76	1.53	1.46
1	cC	80	TRP	NE1-CE2	5.76	1.43	1.37
1	cH	111	LEU	C-O	-5.76	1.17	1.24
1	cJ	151	LEU	C-O	-5.76	1.17	1.24
1	d7	18	ARG	CA-C	5.76	1.60	1.52
1	dm	99	PRO	N-CD	-5.76	1.39	1.47
1	dt	227	LYS	CA-CB	5.76	1.61	1.53
1	dG	3	VAL	C-O	-5.76	1.18	1.24
1	dG	121	ASN	CA-C	5.76	1.59	1.52
1	e3	33	SER	CA-C	5.76	1.57	1.52
1	ek	13	GLN	N-CA	-5.76	1.38	1.46
1	em	134	ILE	CA-CB	-5.76	1.47	1.54
1	en	132	ARG	CZ-NH2	-5.76	1.25	1.33
1	et	39	MET	CA-CB	5.76	1.62	1.53
1	eP	117	TRP	CA-C	-5.76	1.45	1.52
1	f0	212	GLU	CA-CB	5.76	1.62	1.53
1	f7	222	GLY	C-N	5.76	1.42	1.33
1	1v	89	GLY	C-N	5.76	1.40	1.33
1	fa	219	GLN	CA-CB	5.76	1.61	1.53
1	fB	101	GLY	N-CA	5.76	1.52	1.45
1	fB	209	ALA	CA-C	-5.76	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1y	160	PRO	C-N	5.76	1.41	1.33
1	fP	44	SER	CA-CB	5.76	1.62	1.53
1	fP	79	GLU	C-N	5.76	1.41	1.33
1	g0	52	LEU	CA-CB	5.76	1.62	1.53
1	4	169	TYR	N-CA	-5.76	1.39	1.46
1	gx	145	TYR	CA-CB	5.75	1.63	1.53
1	gX	33	SER	CA-CB	5.75	1.62	1.54
1	h1	26	VAL	C-N	5.75	1.41	1.33
1	ip	225	GLY	C-O	-5.75	1.18	1.23
1	iK	124	ILE	CA-C	-5.75	1.48	1.53
1	iR	62	HIS	N-CA	-5.75	1.38	1.46
1	js	201	ILE	CA-CB	-5.75	1.47	1.54
1	jv	161	PHE	CA-CB	5.75	1.62	1.53
1	jx	189	LEU	N-CA	-5.75	1.39	1.46
1	jF	17	PRO	CA-CB	5.75	1.61	1.53
1	jG	100	ARG	CA-CB	5.75	1.61	1.53
1	21	132	ARG	C-N	5.75	1.41	1.33
1	l1	144	MET	CA-CB	5.75	1.62	1.53
1	lt	5	ASN	N-CA	-5.75	1.38	1.45
1	2a	226	HIS	ND1-CE1	5.75	1.38	1.32
1	3Y	175	GLU	CA-C	5.75	1.60	1.52
1	4c	101	GLY	N-CA	5.75	1.53	1.45
1	4D	73	ILE	CA-CB	5.75	1.62	1.54
1	4N	201	ILE	N-CA	-5.75	1.39	1.46
1	5o	130	TYR	CA-CB	5.75	1.62	1.53
1	5p	74	ASN	N-CA	5.75	1.53	1.46
1	64	120	HIS	CG-CD2	5.75	1.42	1.35
1	6k	127	GLY	N-CA	5.75	1.53	1.45
1	9m	87	HIS	ND1-CE1	5.75	1.38	1.32
1	am	153	ILE	CA-C	5.75	1.60	1.52
1	b8	132	ARG	NE-CZ	-5.75	1.26	1.33
1	bF	32	PHE	CA-CB	5.75	1.60	1.53
1	bG	53	ASN	CA-C	5.75	1.60	1.52
1	cs	191	VAL	CA-CB	-5.75	1.47	1.54
1	dJ	56	LEU	CA-C	5.75	1.60	1.52
1	f7	115	ILE	CA-CB	-5.75	1.47	1.54
1	fH	154	ARG	N-CA	-5.75	1.38	1.46
1	fS	191	VAL	CA-C	5.75	1.60	1.52
1	g3	218	CYS	N-CA	5.75	1.53	1.46
1	Q	125	PRO	CA-C	5.75	1.58	1.53
1	gw	83	LEU	C-N	5.75	1.42	1.34
1	gQ	143	ARG	C-N	5.75	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hA	23	TRP	CA-CB	5.75	1.62	1.53
1	hF	188	THR	CA-C	-5.75	1.46	1.52
1	hS	37	ILE	C-O	5.75	1.29	1.24
1	hU	64	ALA	CA-CB	-5.75	1.44	1.53
1	hY	161	PHE	C-O	-5.75	1.17	1.24
1	1O	180	GLU	CA-CB	5.75	1.62	1.53
1	iq	112	GLN	N-CA	5.75	1.53	1.46
1	iP	128	GLU	CA-CB	5.75	1.62	1.53
1	j2	113	GLU	N-CA	-5.75	1.39	1.46
1	je	159	GLU	CA-C	5.75	1.59	1.52
1	jt	21	ASN	N-CA	5.75	1.53	1.46
1	jA	145	TYR	CA-CB	5.75	1.61	1.53
1	jL	212	GLU	CA-C	5.75	1.60	1.52
1	jW	116	GLY	C-N	5.75	1.41	1.33
1	1Z	175	GLU	C-N	5.75	1.41	1.33
1	kx	202	LEU	N-CA	-5.75	1.39	1.46
1	kz	221	VAL	C-N	5.75	1.41	1.33
1	kE	14	ALA	CA-C	-5.75	1.45	1.52
1	kF	77	ALA	CA-C	-5.75	1.45	1.52
1	kU	84	HIS	ND1-CE1	5.75	1.38	1.32
1	lp	77	ALA	N-CA	-5.75	1.39	1.46
1	lR	130	TYR	CA-CB	5.75	1.62	1.53
1	2k	162	ARG	N-CA	5.75	1.53	1.46
1	3h	25	LYS	C-N	5.75	1.41	1.33
1	3y	77	ALA	CA-C	-5.75	1.45	1.52
1	3z	52	LEU	CB-CG	5.75	1.65	1.53
1	3N	37	ILE	N-CA	5.75	1.53	1.46
1	40	229	ARG	CA-CB	5.75	1.63	1.53
1	4f	12	HIS	CG-ND1	5.75	1.44	1.38
1	4P	32	PHE	C-N	5.75	1.39	1.33
1	4Q	228	ALA	N-CA	-5.75	1.41	1.46
1	5e	218	CYS	C-N	5.75	1.41	1.33
1	5B	214	MET	CA-CB	5.75	1.62	1.53
1	5C	229	ARG	CD-NE	5.75	1.54	1.46
1	6j	175	GLU	CA-C	-5.75	1.45	1.52
1	6U	92	GLU	CA-C	5.75	1.59	1.53
1	76	132	ARG	CD-NE	5.75	1.54	1.46
1	7R	62	HIS	CE1-NE2	5.75	1.38	1.32
1	7Z	153	ILE	CA-C	5.75	1.60	1.52
1	83	77	ALA	CA-C	-5.75	1.45	1.52
1	8k	101	GLY	N-CA	-5.75	1.38	1.45
1	8t	106	GLY	CA-C	-5.75	1.43	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8x	33	SER	N-CA	5.75	1.51	1.46
1	8H	120	HIS	CE1-NE2	-5.75	1.26	1.32
1	95	174	ALA	C-N	5.75	1.41	1.33
1	9t	84	HIS	CE1-NE2	5.75	1.38	1.32
1	9F	9	GLN	C-O	-5.75	1.16	1.23
1	9F	93	PRO	CA-C	5.75	1.60	1.52
1	9G	52	LEU	N-CA	-5.75	1.39	1.46
1	a1	218	CYS	CA-C	-5.75	1.45	1.52
1	aa	154	ARG	CD-NE	5.75	1.54	1.46
1	14	131	LYS	CA-CB	5.75	1.62	1.53
1	19	35	GLU	C-O	-5.75	1.16	1.24
1	bF	129	ILE	C-N	5.75	1.41	1.33
1	bN	147	PRO	N-CA	-5.75	1.42	1.47
1	bP	48	THR	C-O	5.75	1.31	1.23
1	cT	2	ILE	CB-CG1	5.75	1.65	1.53
1	cY	35	GLU	C-N	5.75	1.40	1.34
1	db	156	GLY	C-N	-5.75	1.28	1.34
1	1m	12	HIS	ND1-CE1	5.75	1.38	1.32
1	dL	151	LEU	CB-CG	5.75	1.65	1.53
1	e7	99	PRO	CA-C	-5.75	1.47	1.52
1	eo	62	HIS	CE1-NE2	5.75	1.38	1.32
1	eO	21	ASN	C-N	5.75	1.41	1.33
1	fc	126	VAL	C-N	5.75	1.40	1.33
1	fp	5	ASN	CA-CB	5.75	1.62	1.53
1	fA	40	PHE	CA-C	5.75	1.60	1.52
1	fD	150	ILE	CA-C	-5.75	1.44	1.52
1	1y	63	GLN	CA-CB	5.75	1.62	1.53
1	1C	220	GLY	CA-C	5.75	1.59	1.51
1	gp	175	GLU	CA-C	-5.75	1.45	1.52
1	gI	2	ILE	N-CA	-5.75	1.39	1.47
1	1H	105	ALA	CA-C	5.75	1.60	1.52
1	hp	223	GLY	N-CA	5.75	1.52	1.44
1	hp	229	ARG	CD-NE	5.75	1.54	1.46
1	hG	136	LEU	N-CA	-5.75	1.39	1.46
1	ip	65	ALA	CA-CB	5.75	1.62	1.53
1	iu	43	LEU	C-N	5.75	1.41	1.33
1	iz	70	LYS	CA-C	5.75	1.60	1.52
1	iD	44	SER	CA-CB	5.75	1.60	1.53
1	iD	185	MET	CA-C	5.75	1.60	1.52
1	1W	79	GLU	CA-CB	5.75	1.62	1.53
1	jT	215	MET	CA-C	-5.75	1.44	1.52
1	k9	120	HIS	CA-CB	5.75	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kb	201	ILE	C-N	5.75	1.41	1.33
1	ki	189	LEU	CB-CG	5.75	1.65	1.53
1	kz	11	VAL	CA-C	-5.75	1.47	1.53
1	kK	140	LYS	CA-C	5.75	1.60	1.52
1	kU	83	LEU	N-CA	-5.75	1.39	1.46
1	kY	23	TRP	CA-C	5.75	1.60	1.52
1	l4	228	ALA	C-O	-5.75	1.17	1.23
1	2v	144	MET	CA-C	-5.75	1.45	1.52
1	2V	70	LYS	N-CA	5.75	1.53	1.46
1	3J	137	GLY	N-CA	5.75	1.52	1.45
1	3N	70	LYS	CA-CB	5.75	1.62	1.53
1	3P	192	GLN	N-CA	5.75	1.53	1.46
1	4v	202	LEU	CA-C	-5.75	1.45	1.52
1	4D	29	GLU	CA-CB	5.75	1.63	1.53
1	4X	200	THR	N-CA	5.75	1.53	1.46
1	50	62	HIS	CG-ND1	5.75	1.44	1.38
1	5f	199	LYS	CA-C	-5.75	1.45	1.52
1	5K	64	ALA	CA-CB	5.75	1.62	1.53
1	5S	30	LYS	CA-C	-5.75	1.45	1.52
1	6y	112	GLN	CA-C	-5.75	1.45	1.52
1	6E	92	GLU	CA-C	5.75	1.60	1.52
1	72	44	SER	CA-C	-5.75	1.43	1.52
1	7l	230	VAL	CA-CB	5.75	1.61	1.54
1	7z	184	TRP	N-CA	-5.75	1.39	1.46
1	87	71	GLU	C-N	5.75	1.41	1.33
1	89	68	MET	N-CA	5.75	1.53	1.46
1	8o	212	GLU	CA-C	5.75	1.60	1.52
1	8M	91	ILE	C-N	5.75	1.41	1.33
1	98	69	LEU	C-O	5.75	1.30	1.24
1	9x	62	HIS	CE1-NE2	5.75	1.38	1.32
1	9L	117	TRP	NE1-CE2	5.75	1.43	1.37
1	9T	26	VAL	CA-CB	5.75	1.62	1.54
1	9X	22	ALA	CA-C	5.75	1.60	1.52
1	a0	84	HIS	ND1-CE1	5.75	1.38	1.32
1	a3	9	GLN	C-N	5.75	1.41	1.33
1	a7	145	TYR	CA-C	-5.75	1.44	1.52
1	aM	191	VAL	C-N	5.75	1.41	1.33
1	bp	143	ARG	CA-CB	5.75	1.62	1.53
1	bY	188	THR	CA-C	-5.75	1.48	1.52
1	cB	189	LEU	C-O	-5.75	1.16	1.24
1	cS	197	ASP	CA-C	5.75	1.60	1.52
1	cZ	189	LEU	CA-C	5.75	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dh	75	GLU	CA-CB	5.75	1.62	1.53
1	dl	86	VAL	CA-C	5.75	1.60	1.52
1	1k	48	THR	CA-C	5.75	1.60	1.52
1	dv	76	GLU	C-N	5.75	1.41	1.33
1	dJ	142	VAL	CA-C	5.75	1.59	1.52
1	dT	124	ILE	CA-C	5.75	1.58	1.52
1	ed	141	ILE	CA-C	5.75	1.60	1.52
1	eh	50	GLN	CA-C	5.75	1.60	1.52
1	ex	144	MET	C-N	5.75	1.41	1.33
1	eC	164	TYR	CA-CB	5.75	1.62	1.53
1	eL	153	ILE	CA-CB	-5.75	1.48	1.54
1	eR	80	TRP	NE1-CE2	5.75	1.43	1.37
1	eW	69	LEU	N-CA	5.75	1.53	1.46
1	eW	185	MET	C-O	-5.75	1.17	1.24
1	f1	9	GLN	CA-CB	5.75	1.62	1.53
1	f5	19	THR	CA-C	-5.75	1.45	1.52
1	fz	209	ALA	C-N	5.75	1.41	1.33
1	fZ	65	ALA	CA-CB	5.75	1.62	1.53
1	g3	131	LYS	CA-CB	5.75	1.62	1.53
1	f	188	THR	N-CA	5.75	1.53	1.46
1	C	12	HIS	CG-CD2	5.75	1.42	1.35
1	C	74	ASN	N-CA	-5.75	1.39	1.46
1	F	62	HIS	ND1-CE1	5.75	1.38	1.32
1	O	92	GLU	CA-C	-5.75	1.46	1.53
1	gr	124	ILE	CA-C	5.75	1.58	1.52
1	ia	103	ASP	CA-C	5.75	1.60	1.52
1	jv	216	THR	C-N	5.75	1.41	1.33
1	jO	207	PRO	CA-C	5.75	1.58	1.52
1	jQ	154	ARG	N-CA	5.75	1.53	1.45
1	k1	44	SER	CA-CB	5.75	1.61	1.53
1	kC	22	ALA	C-N	5.75	1.40	1.33
1	ll	47	ALA	N-CA	5.75	1.53	1.46
1	4l	102	SER	CA-C	-5.75	1.44	1.52
1	4p	130	TYR	N-CA	-5.75	1.39	1.46
1	4B	52	LEU	CA-CB	-5.75	1.44	1.53
1	5v	149	SER	CA-C	-5.75	1.45	1.52
1	5R	219	GLN	N-CA	5.75	1.53	1.45
1	5T	18	ARG	CD-NE	5.75	1.54	1.46
1	6j	62	HIS	CA-C	5.75	1.61	1.53
1	6k	126	VAL	CA-C	-5.75	1.45	1.52
1	6l	62	HIS	CE1-NE2	5.75	1.38	1.32
1	6t	99	PRO	CA-CB	-5.75	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7f	226	HIS	CE1-NE2	5.75	1.38	1.32
1	7m	12	HIS	ND1-CE1	5.75	1.38	1.32
1	7C	70	LYS	N-CA	-5.75	1.39	1.46
1	7X	210	THR	CA-C	-5.75	1.45	1.52
1	9L	124	ILE	CA-CB	5.75	1.59	1.53
1	aK	100	ARG	CD-NE	5.75	1.54	1.46
1	bn	12	HIS	CG-ND1	-5.75	1.31	1.38
1	br	131	LYS	CA-CB	5.75	1.62	1.53
1	bs	73	ILE	CA-CB	-5.75	1.47	1.54
1	bQ	90	PRO	N-CA	5.75	1.54	1.47
1	c0	84	HIS	CB-CG	-5.75	1.42	1.50
1	cQ	229	ARG	CA-C	-5.75	1.45	1.52
1	dh	133	TRP	CA-CB	5.75	1.62	1.53
1	dk	190	LEU	N-CA	5.75	1.52	1.46
1	dF	133	TRP	CA-CB	5.75	1.62	1.53
1	eM	164	TYR	C-N	5.75	1.41	1.33
1	fD	12	HIS	ND1-CE1	5.75	1.38	1.32
1	fZ	111	LEU	N-CA	-5.75	1.39	1.46
1	V	15	ILE	CA-CB	-5.75	1.46	1.54
1	5	84	HIS	ND1-CE1	5.75	1.38	1.32
1	gp	214	MET	CA-CB	5.75	1.62	1.53
1	gF	59	VAL	N-CA	-5.75	1.39	1.46
1	gP	83	LEU	N-CA	-5.75	1.39	1.46
1	gX	195	ASN	CA-C	5.75	1.60	1.52
1	hd	91	ILE	N-CA	5.75	1.53	1.46
1	hy	21	ASN	N-CA	5.75	1.53	1.46
1	hG	196	PRO	CA-C	5.75	1.60	1.52
1	hZ	230	VAL	CA-CB	5.75	1.60	1.54
1	iz	80	TRP	CA-CB	5.75	1.62	1.53
1	j1	15	ILE	N-CA	-5.75	1.39	1.46
1	jm	19	THR	C-N	5.75	1.41	1.33
1	js	194	ALA	CA-C	-5.75	1.45	1.52
1	k2	23	TRP	C-N	5.75	1.41	1.33
1	k9	15	ILE	CB-CG1	5.75	1.65	1.53
1	kn	70	LYS	CA-CB	5.75	1.63	1.53
1	kB	120	HIS	CE1-NE2	5.75	1.38	1.32
1	kH	103	ASP	CA-CB	5.75	1.62	1.53
1	kK	3	VAL	N-CA	5.75	1.53	1.46
1	l2	78	ALA	N-CA	-5.75	1.39	1.46
1	l2	136	LEU	CA-CB	-5.75	1.44	1.53
1	26	8	GLY	CA-C	-5.75	1.45	1.52
1	la	227	LYS	CA-CB	5.75	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lh	119	THR	C-N	5.75	1.41	1.33
1	lF	48	THR	CA-C	5.75	1.60	1.53
1	2U	191	VAL	N-CA	-5.75	1.38	1.46
1	3a	64	ALA	C-N	5.75	1.41	1.33
1	3G	157	PRO	CA-CB	5.75	1.62	1.53
1	3J	72	THR	C-N	5.75	1.41	1.33
1	3L	227	LYS	CA-CB	5.75	1.62	1.53
1	3V	129	ILE	C-O	-5.75	1.17	1.24
1	3Z	188	THR	CA-CB	5.75	1.63	1.53
1	4x	223	GLY	CA-C	5.75	1.60	1.51
1	4y	229	ARG	CD-NE	5.75	1.54	1.46
1	4G	68	MET	CA-C	-5.75	1.44	1.52
1	4Q	137	GLY	N-CA	5.75	1.52	1.45
1	5c	70	LYS	N-CA	5.75	1.53	1.46
1	5t	184	TRP	NE1-CE2	5.75	1.43	1.37
1	5u	23	TRP	C-O	-5.75	1.17	1.24
1	5E	167	ARG	CD-NE	5.75	1.54	1.46
1	5E	175	GLU	N-CA	-5.75	1.39	1.46
1	5K	132	ARG	CA-CB	5.75	1.62	1.53
1	5N	120	HIS	ND1-CE1	5.75	1.38	1.32
1	6k	155	GLN	C-N	5.75	1.42	1.33
1	6M	96	MET	CA-C	-5.75	1.45	1.52
1	6Q	22	ALA	C-N	5.75	1.41	1.34
1	6Z	203	LYS	CA-C	-5.75	1.45	1.52
1	77	103	ASP	CA-C	5.75	1.60	1.52
1	7z	129	ILE	CA-CB	5.75	1.61	1.54
1	7I	119	THR	N-CA	5.75	1.53	1.46
1	7Q	165	VAL	CA-C	5.75	1.60	1.52
1	8w	48	THR	N-CA	-5.75	1.38	1.45
1	8x	37	ILE	CA-C	5.75	1.58	1.52
1	8x	76	GLU	CA-CB	5.75	1.62	1.53
1	8A	77	ALA	N-CA	5.75	1.53	1.46
1	8H	7	GLN	N-CA	5.75	1.54	1.46
1	8N	57	ASN	CA-CB	5.75	1.62	1.53
1	8R	134	ILE	CA-CB	5.75	1.61	1.54
1	8W	53	ASN	CA-CB	5.75	1.62	1.53
1	9g	159	GLU	CA-C	5.75	1.60	1.52
1	9q	195	ASN	CA-C	5.75	1.60	1.52
1	9E	142	VAL	CA-CB	-5.75	1.47	1.54
1	a3	97	ARG	CA-C	5.75	1.60	1.52
1	aE	178	SER	C-O	-5.75	1.17	1.23
1	aG	99	PRO	CA-C	-5.75	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aT	134	ILE	CA-CB	5.75	1.61	1.54
1	aT	211	LEU	C-N	5.75	1.41	1.33
1	aY	180	GLU	N-CA	5.75	1.53	1.46
1	bm	82	ARG	CD-NE	5.75	1.54	1.46
1	bS	70	LYS	C-O	-5.75	1.17	1.24
1	bU	220	GLY	N-CA	5.75	1.51	1.45
1	cj	59	VAL	N-CA	5.75	1.53	1.46
1	ct	156	GLY	CA-C	5.75	1.60	1.51
1	1f	52	LEU	N-CA	-5.75	1.39	1.46
1	cA	194	ALA	CA-C	5.75	1.60	1.52
1	cB	24	VAL	CA-CB	5.75	1.61	1.54
1	cK	70	LYS	C-O	-5.75	1.17	1.24
1	cM	190	LEU	CA-CB	5.75	1.62	1.53
1	dY	35	GLU	CA-C	5.75	1.60	1.52
1	e1	21	ASN	CA-C	5.75	1.60	1.52
1	ev	192	GLN	CA-C	5.75	1.60	1.52
1	ey	87	HIS	CG-ND1	-5.75	1.31	1.38
1	eV	23	TRP	C-N	5.75	1.41	1.33
1	1x	36	VAL	CA-CB	-5.75	1.47	1.54
1	g5	147	PRO	N-CA	-5.75	1.42	1.47
1	t	84	HIS	CA-C	5.75	1.60	1.52
1	A	75	GLU	CA-C	-5.75	1.45	1.52
1	G	17	PRO	C-N	5.75	1.41	1.34
1	gJ	24	VAL	C-N	5.75	1.41	1.33
1	gX	75	GLU	CA-CB	5.75	1.62	1.53
1	h1	72	THR	N-CA	5.75	1.53	1.46
1	hG	57	ASN	N-CA	-5.75	1.39	1.46
1	hQ	104	ILE	CA-C	5.75	1.60	1.52
1	ij	7	GLN	CA-C	5.75	1.60	1.52
1	iK	218	CYS	CA-CB	5.75	1.63	1.53
1	ji	92	GLU	CA-CB	5.75	1.61	1.53
1	jG	80	TRP	CA-CB	5.75	1.62	1.53
1	jL	139	ASN	CA-CB	5.75	1.62	1.53
1	jY	21	ASN	C-O	-5.75	1.17	1.24
1	kd	14	ALA	N-CA	-5.75	1.38	1.46
1	kf	97	ARG	CD-NE	5.75	1.54	1.46
1	kv	118	MET	CA-C	5.75	1.60	1.52
1	kC	32	PHE	N-CA	-5.75	1.39	1.46
1	kI	171	THR	CA-C	5.75	1.60	1.52
1	kR	121	ASN	N-CA	-5.75	1.39	1.46
1	25	75	GLU	CA-C	5.75	1.60	1.52
1	l2	97	ARG	N-CA	-5.75	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	la	70	LYS	CA-C	5.75	1.60	1.52
1	lh	21	ASN	N-CA	-5.75	1.39	1.46
1	lt	42	ALA	CA-CB	5.75	1.62	1.53
1	lH	108	THR	N-CA	5.75	1.53	1.45
1	lI	123	PRO	CA-C	-5.75	1.47	1.53
1	lQ	111	LEU	N-CA	-5.75	1.39	1.46
1	2e	36	VAL	N-CA	-5.75	1.38	1.46
1	2g	116	GLY	CA-C	5.75	1.58	1.51
1	2l	133	TRP	N-CA	-5.75	1.39	1.46
1	2x	141	ILE	CA-CB	5.75	1.61	1.54
1	2N	40	PHE	CA-C	5.75	1.60	1.52
1	30	175	GLU	N-CA	-5.75	1.39	1.46
1	3c	88	ALA	CA-C	5.75	1.60	1.52
1	3O	111	LEU	C-N	5.75	1.41	1.33
1	3X	172	LEU	C-N	5.75	1.41	1.33
1	40	84	HIS	ND1-CE1	5.75	1.38	1.32
1	4G	160	PRO	N-CA	-5.75	1.40	1.47
1	4H	229	ARG	CD-NE	5.75	1.54	1.46
1	5n	142	VAL	CA-C	5.75	1.60	1.52
1	5o	172	LEU	CA-CB	5.75	1.62	1.53
1	5t	59	VAL	CA-CB	-5.75	1.47	1.54
1	5v	125	PRO	CA-C	-5.75	1.48	1.53
1	6e	18	ARG	NE-CZ	5.75	1.39	1.33
1	6t	180	GLU	CA-CB	5.75	1.62	1.53
1	7D	191	VAL	CA-C	5.75	1.60	1.52
1	7K	6	LEU	CA-CB	5.75	1.63	1.53
1	7Z	169	TYR	N-CA	-5.75	1.39	1.46
1	8m	10	MET	CA-CB	5.75	1.61	1.53
1	9j	86	VAL	CA-CB	-5.75	1.47	1.54
1	9z	142	VAL	C-N	5.75	1.41	1.33
1	9G	116	GLY	CA-C	5.75	1.58	1.52
1	9W	10	MET	N-CA	-5.75	1.38	1.46
1	a7	100	ARG	CA-CB	-5.75	1.44	1.53
1	ap	28	GLU	CA-CB	5.75	1.64	1.53
1	av	71	GLU	N-CA	-5.75	1.39	1.46
1	aQ	3	VAL	CA-CB	-5.75	1.47	1.54
1	aU	174	ALA	N-CA	-5.75	1.39	1.46
1	b0	24	VAL	CA-C	-5.75	1.45	1.52
1	b8	29	GLU	N-CA	-5.75	1.39	1.46
1	bg	12	HIS	CG-CD2	-5.75	1.29	1.35
1	bn	17	PRO	C-N	5.75	1.41	1.33
1	bD	76	GLU	CA-CB	5.75	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bG	24	VAL	CA-CB	5.75	1.61	1.54
1	bM	151	LEU	CA-CB	5.75	1.62	1.53
1	c9	223	GLY	C-N	5.75	1.40	1.33
1	cB	28	GLU	CA-C	5.75	1.60	1.52
1	d0	223	GLY	N-CA	5.75	1.52	1.44
1	d1	62	HIS	CE1-NE2	5.75	1.38	1.32
1	d9	68	MET	CA-C	5.75	1.60	1.52
1	dk	5	ASN	CA-CB	5.75	1.62	1.53
1	dt	44	SER	CA-CB	5.75	1.62	1.53
1	dz	151	LEU	CA-C	-5.75	1.45	1.52
1	dZ	229	ARG	CA-C	5.75	1.60	1.52
1	e9	101	GLY	N-CA	-5.75	1.38	1.45
1	ea	171	THR	CA-CB	5.75	1.62	1.53
1	ed	33	SER	N-CA	-5.75	1.40	1.46
1	ef	215	MET	CA-C	5.75	1.59	1.52
1	er	63	GLN	CA-CB	5.75	1.62	1.53
1	et	119	THR	CB-OG1	-5.75	1.34	1.43
1	eC	23	TRP	NE1-CE2	-5.75	1.31	1.37
1	f8	111	LEU	CA-CB	5.75	1.62	1.53
1	fy	82	ARG	CD-NE	5.75	1.54	1.46
1	1y	69	LEU	C-N	5.75	1.41	1.33
1	fZ	159	GLU	CA-C	5.75	1.59	1.53
1	g1	96	MET	C-N	5.75	1.41	1.33
1	y	23	TRP	C-O	-5.75	1.17	1.24
1	P	202	LEU	CA-C	-5.75	1.45	1.52
1	jf	99	PRO	CA-CB	5.75	1.61	1.53
1	jC	101	GLY	C-N	5.75	1.41	1.33
1	23	152	ASP	CA-C	5.75	1.60	1.52
1	lw	70	LYS	N-CA	-5.75	1.39	1.46
1	2q	181	VAL	CA-C	-5.75	1.45	1.52
1	4F	68	MET	CA-C	-5.75	1.45	1.52
1	5a	229	ARG	CA-CB	5.75	1.61	1.53
1	5V	165	VAL	CA-C	5.75	1.59	1.52
1	64	82	ARG	N-CA	-5.75	1.39	1.46
1	8i	82	ARG	CA-CB	5.75	1.62	1.53
1	8P	222	GLY	CA-C	-5.75	1.43	1.51
1	90	45	GLU	C-N	5.75	1.41	1.33
1	9c	80	TRP	NE1-CE2	-5.75	1.31	1.37
1	9t	79	GLU	N-CA	-5.75	1.39	1.46
1	9A	148	THR	CA-CB	5.75	1.61	1.53
1	cC	221	VAL	N-CA	-5.75	1.38	1.46
1	1i	226	HIS	CA-C	5.75	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dl	143	ARG	NE-CZ	5.75	1.39	1.33
1	dB	119	THR	C-N	5.75	1.41	1.33
1	dF	229	ARG	CA-C	5.75	1.60	1.52
1	1s	132	ARG	N-CA	-5.75	1.39	1.46
1	f1	153	ILE	CA-CB	-5.75	1.46	1.53
1	g2	154	ARG	CD-NE	5.75	1.54	1.46
1	9	11	VAL	C-N	5.75	1.41	1.33
1	gi	33	SER	CA-C	5.74	1.57	1.52
1	gi	193	ASN	CA-CB	5.74	1.62	1.53
1	go	185	MET	C-O	-5.74	1.17	1.24
1	gr	131	LYS	CA-CB	5.74	1.62	1.53
1	h2	202	LEU	CA-C	5.74	1.60	1.52
1	1I	44	SER	CA-CB	5.74	1.62	1.53
1	1K	59	VAL	CA-C	-5.74	1.45	1.52
1	hD	19	THR	N-CA	5.74	1.53	1.46
1	hG	159	GLU	CA-CB	5.74	1.61	1.52
1	i3	31	ALA	C-N	5.74	1.42	1.33
1	ig	76	GLU	C-O	-5.74	1.17	1.24
1	j4	178	SER	CA-CB	5.74	1.63	1.53
1	jk	67	GLN	CA-CB	5.74	1.62	1.53
1	jn	178	SER	N-CA	5.74	1.53	1.45
1	jr	114	GLN	C-N	5.74	1.41	1.33
1	jt	229	ARG	CA-CB	5.74	1.63	1.53
1	jA	190	LEU	CA-CB	5.74	1.64	1.53
1	jM	216	THR	CB-OG1	-5.74	1.34	1.43
1	jX	185	MET	C-N	5.74	1.41	1.33
1	kF	189	LEU	N-CA	5.74	1.53	1.46
1	kW	15	ILE	CA-CB	-5.74	1.47	1.54
1	l5	32	PHE	CA-C	-5.74	1.44	1.52
1	lB	65	ALA	N-CA	-5.74	1.39	1.46
1	lR	156	GLY	N-CA	5.74	1.52	1.44
1	2c	101	GLY	N-CA	-5.74	1.38	1.45
1	2J	51	ASP	C-N	-5.74	1.26	1.33
1	2M	92	GLU	CA-C	5.74	1.59	1.53
1	3j	169	TYR	C-N	5.74	1.41	1.33
1	3s	23	TRP	CA-CB	5.74	1.62	1.53
1	4x	220	GLY	C-N	5.74	1.39	1.33
1	5m	135	ILE	C-N	-5.74	1.26	1.33
1	5o	71	GLU	C-N	5.74	1.41	1.33
1	5C	97	ARG	CD-NE	5.74	1.54	1.46
1	5L	37	ILE	CA-CB	-5.74	1.46	1.54
1	69	198	CYS	N-CA	-5.74	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6a	39	MET	CA-C	5.74	1.60	1.52
1	6l	211	LEU	C-N	5.74	1.41	1.33
1	6t	166	ASP	N-CA	5.74	1.53	1.46
1	6z	181	VAL	CA-CB	-5.74	1.47	1.54
1	6G	231	LEU	CB-CG	5.74	1.65	1.53
1	6O	33	SER	C-O	-5.74	1.19	1.24
1	76	169	TYR	CZ-OH	5.74	1.50	1.38
1	7h	84	HIS	CG-CD2	5.74	1.42	1.35
1	7w	57	ASN	C-N	5.74	1.42	1.33
1	7F	140	LYS	CA-C	5.74	1.60	1.52
1	7J	96	MET	C-O	-5.74	1.17	1.23
1	7M	170	LYS	CA-CB	5.74	1.62	1.53
1	88	138	LEU	CA-C	-5.74	1.45	1.52
1	8g	135	ILE	CA-CB	-5.74	1.46	1.54
1	8R	11	VAL	C-O	-5.74	1.17	1.24
1	8U	116	GLY	C-N	5.74	1.41	1.33
1	8Y	124	ILE	CA-C	-5.74	1.48	1.53
1	99	129	ILE	CA-CB	-5.74	1.48	1.54
1	ac	190	LEU	CA-CB	5.74	1.62	1.53
1	af	21	ASN	N-CA	5.74	1.53	1.46
1	an	179	GLN	N-CA	-5.74	1.39	1.46
1	au	210	THR	C-N	5.74	1.41	1.33
1	av	152	ASP	CA-CB	5.74	1.63	1.53
1	aU	53	ASN	N-CA	5.74	1.53	1.46
1	b4	157	PRO	CA-CB	5.74	1.64	1.54
1	bm	90	PRO	C-O	-5.74	1.16	1.23
1	bm	132	ARG	C-N	5.74	1.41	1.33
1	bm	226	HIS	CE1-NE2	5.74	1.38	1.32
1	bA	136	LEU	CA-CB	5.74	1.62	1.53
1	bA	174	ALA	N-CA	-5.74	1.39	1.46
1	1b	133	TRP	NE1-CE2	-5.74	1.31	1.37
1	cj	196	PRO	CA-C	5.74	1.60	1.52
1	cl	217	ALA	CA-CB	5.74	1.63	1.53
1	cO	58	THR	CA-C	-5.74	1.44	1.52
1	cQ	230	VAL	C-N	5.74	1.41	1.33
1	cS	38	PRO	N-CA	5.74	1.55	1.47
1	dz	178	SER	C-N	5.74	1.41	1.34
1	dQ	165	VAL	N-CA	-5.74	1.39	1.46
1	eO	158	LYS	C-O	-5.74	1.16	1.24
1	1t	80	TRP	NE1-CE2	-5.74	1.31	1.37
1	fc	182	LYS	CA-C	5.74	1.60	1.52
1	fA	211	LEU	CA-CB	5.74	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fO	199	LYS	CA-C	5.74	1.60	1.52
1	0	150	ILE	CA-CB	5.74	1.61	1.54
1	L	3	VAL	CA-C	-5.74	1.45	1.52
1	gf	7	GLN	CB-CG	5.74	1.69	1.52
1	gH	185	MET	N-CA	-5.74	1.39	1.46
1	im	134	ILE	N-CA	5.74	1.53	1.46
1	iJ	132	ARG	C-N	5.74	1.41	1.33
1	k6	161	PHE	N-CA	-5.74	1.39	1.46
1	ka	61	GLY	CA-C	-5.74	1.46	1.52
1	kU	161	PHE	CA-CB	5.74	1.62	1.53
1	ln	174	ALA	N-CA	5.74	1.52	1.46
1	2q	140	LYS	N-CA	-5.74	1.39	1.46
1	4b	95	GLN	C-N	5.74	1.41	1.33
1	4F	47	ALA	N-CA	5.74	1.53	1.46
1	50	110	THR	N-CA	5.74	1.53	1.45
1	5B	92	GLU	C-N	5.74	1.40	1.33
1	76	160	PRO	C-N	5.74	1.41	1.33
1	7q	178	SER	CA-C	-5.74	1.45	1.53
1	8l	167	ARG	CD-NE	5.74	1.54	1.46
1	8L	124	ILE	CA-C	5.74	1.58	1.53
1	9f	208	ALA	CA-CB	-5.74	1.44	1.53
1	9m	92	GLU	CA-C	5.74	1.60	1.53
1	9E	6	LEU	C-N	5.74	1.41	1.33
1	9K	62	HIS	CG-ND1	5.74	1.44	1.38
1	9Q	178	SER	CA-C	5.74	1.60	1.53
1	11	48	THR	N-CA	5.74	1.53	1.45
1	aq	131	LYS	C-N	5.74	1.41	1.33
1	bj	40	PHE	CA-CB	5.74	1.62	1.53
1	1g	226	HIS	C-N	5.74	1.42	1.33
1	eA	133	TRP	N-CA	5.74	1.53	1.46
1	fi	129	ILE	CA-CB	-5.74	1.47	1.54
1	g3	18	ARG	CA-CB	5.74	1.62	1.53
1	hf	137	GLY	N-CA	5.74	1.52	1.45
1	1K	156	GLY	C-N	-5.74	1.26	1.34
1	1K	161	PHE	CA-C	5.74	1.60	1.52
1	hB	23	TRP	NE1-CE2	5.74	1.43	1.37
1	ip	213	GLU	C-O	-5.74	1.17	1.24
1	iq	79	GLU	CA-C	5.74	1.60	1.52
1	1Q	114	GLN	C-O	-5.74	1.17	1.24
1	jR	126	VAL	C-N	5.74	1.40	1.34
1	21	15	ILE	CA-C	5.74	1.60	1.52
1	ky	88	ALA	CA-CB	5.74	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	23	207	PRO	N-CA	5.74	1.55	1.47
1	kN	186	THR	C-O	-5.74	1.17	1.24
1	29	6	LEU	CA-C	-5.74	1.45	1.53
1	2E	203	LYS	CA-CB	5.74	1.62	1.53
1	2L	143	ARG	NE-CZ	5.74	1.39	1.33
1	2V	226	HIS	CA-C	-5.74	1.45	1.52
1	36	87	HIS	ND1-CE1	5.74	1.38	1.32
1	3j	131	LYS	CA-C	-5.74	1.45	1.52
1	3v	15	ILE	CA-CB	5.74	1.60	1.53
1	3x	154	ARG	CA-C	5.74	1.59	1.52
1	3W	3	VAL	CA-CB	-5.74	1.47	1.54
1	3Y	65	ALA	C-N	5.74	1.41	1.33
1	4F	40	PHE	CA-CB	5.74	1.62	1.53
1	5v	164	TYR	CA-CB	5.74	1.62	1.53
1	5A	69	LEU	CA-C	5.74	1.60	1.52
1	5G	52	LEU	C-N	5.74	1.41	1.33
1	5O	24	VAL	CA-C	5.74	1.60	1.52
1	5U	5	ASN	CA-CB	5.74	1.62	1.53
1	5U	89	GLY	N-CA	5.74	1.52	1.44
1	5W	40	PHE	CA-CB	5.74	1.62	1.53
1	6f	134	ILE	CA-CB	5.74	1.62	1.54
1	6o	72	THR	C-N	5.74	1.40	1.33
1	79	202	LEU	N-CA	-5.74	1.39	1.46
1	7f	72	THR	C-N	5.74	1.41	1.33
1	7f	117	TRP	CA-CB	5.74	1.62	1.53
1	7u	199	LYS	C-N	5.74	1.41	1.33
1	7z	156	GLY	N-CA	5.74	1.52	1.44
1	7A	212	GLU	CA-C	-5.74	1.45	1.52
1	7Q	6	LEU	CA-CB	5.74	1.62	1.53
1	8e	189	LEU	CA-C	5.74	1.60	1.52
1	8X	69	LEU	N-CA	5.74	1.53	1.46
1	9i	100	ARG	N-CA	-5.74	1.39	1.45
1	9u	161	PHE	CA-C	5.74	1.60	1.52
1	9G	90	PRO	N-CA	-5.74	1.40	1.47
1	aE	150	ILE	C-N	5.74	1.41	1.33
1	aP	4	GLN	N-CA	5.74	1.53	1.45
1	aV	10	MET	C-N	5.74	1.40	1.33
1	be	29	GLU	CA-CB	5.74	1.62	1.53
1	bg	67	GLN	CA-C	5.74	1.60	1.52
1	bx	62	HIS	CE1-NE2	5.74	1.38	1.32
1	bQ	187	GLU	CA-C	-5.74	1.45	1.52
1	cl	134	ILE	C-N	5.74	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	db	230	VAL	N-CA	5.74	1.54	1.46
1	dr	201	ILE	N-CA	5.74	1.53	1.46
1	dv	120	HIS	C-N	5.74	1.39	1.33
1	1l	59	VAL	C-N	5.74	1.41	1.33
1	dM	63	GLN	C-N	5.74	1.41	1.33
1	dT	41	SER	CA-C	-5.74	1.45	1.52
1	e2	174	ALA	C-N	5.74	1.41	1.33
1	e2	226	HIS	CA-CB	5.74	1.62	1.53
1	eA	98	GLU	C-N	5.74	1.40	1.33
1	eA	227	LYS	CA-CB	5.74	1.62	1.53
1	eN	167	ARG	C-N	5.74	1.40	1.33
1	fy	230	VAL	C-N	5.74	1.41	1.33
1	fI	110	THR	CA-C	5.74	1.60	1.53
1	fI	220	GLY	C-N	5.74	1.41	1.33
1	fU	61	GLY	C-O	-5.74	1.17	1.23
1	1A	32	PHE	CA-C	-5.74	1.47	1.53
1	a	33	SER	CA-CB	5.74	1.62	1.53
1	a	143	ARG	CA-C	-5.74	1.45	1.52
1	P	117	TRP	CA-C	-5.74	1.45	1.52
1	ga	149	SER	CA-C	-5.74	1.45	1.52
1	gv	1	PRO	N-CD	5.74	1.55	1.47
1	gZ	214	MET	CA-C	5.74	1.60	1.52
1	1M	3	VAL	N-CA	-5.74	1.39	1.46
1	iC	153	ILE	CA-C	5.74	1.59	1.52
1	iP	196	PRO	C-O	-5.74	1.17	1.24
1	iX	28	GLU	CA-C	-5.74	1.45	1.52
1	jb	97	ARG	CA-CB	5.74	1.62	1.53
1	ji	97	ARG	CA-CB	5.74	1.63	1.53
1	jy	80	TRP	CA-CB	5.74	1.62	1.53
1	jK	169	TYR	CA-CB	5.74	1.62	1.53
1	jO	213	GLU	C-O	-5.74	1.17	1.24
1	jP	218	CYS	CA-C	-5.74	1.45	1.52
1	kD	52	LEU	CA-CB	5.74	1.62	1.53
1	23	170	LYS	CA-C	5.74	1.60	1.52
1	kL	85	PRO	N-CD	-5.74	1.39	1.47
1	kY	141	ILE	C-N	5.74	1.41	1.33
1	kZ	155	GLN	CA-C	5.74	1.60	1.52
1	ly	32	PHE	CA-C	5.74	1.59	1.53
1	29	152	ASP	C-N	5.74	1.39	1.33
1	lM	155	GLN	CA-C	-5.74	1.44	1.52
1	2w	207	PRO	CA-C	-5.74	1.43	1.52
1	2Q	213	GLU	CA-C	5.74	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2W	42	ALA	CA-C	5.74	1.60	1.52
1	3C	210	THR	CB-OG1	-5.74	1.34	1.43
1	3J	197	ASP	CA-C	-5.74	1.45	1.52
1	3Z	77	ALA	CA-C	5.74	1.60	1.52
1	4l	24	VAL	CA-CB	-5.74	1.48	1.54
1	4r	197	ASP	CA-CB	5.74	1.62	1.53
1	4F	88	ALA	C-N	5.74	1.42	1.33
1	59	228	ALA	N-CA	-5.74	1.39	1.46
1	5b	133	TRP	CA-CB	5.74	1.62	1.53
1	5u	221	VAL	CA-C	5.74	1.60	1.52
1	67	71	GLU	CA-CB	5.74	1.62	1.53
1	6r	133	TRP	C-N	5.74	1.41	1.33
1	6z	225	GLY	N-CA	5.74	1.52	1.45
1	6M	227	LYS	N-CA	-5.74	1.39	1.46
1	7f	25	LYS	CA-C	5.74	1.60	1.52
1	7w	184	TRP	CA-CB	5.74	1.62	1.53
1	7H	111	LEU	CA-CB	5.74	1.62	1.53
1	83	187	GLU	CA-CB	5.74	1.62	1.53
1	88	146	SER	C-N	5.74	1.41	1.34
1	8i	7	GLN	CA-C	5.74	1.60	1.52
1	8o	55	MET	CA-CB	5.74	1.62	1.53
1	8y	84	HIS	CB-CG	5.74	1.58	1.50
1	8N	131	LYS	CA-CB	5.74	1.62	1.53
1	99	51	ASP	N-CA	-5.74	1.39	1.46
1	9m	112	GLN	N-CA	-5.74	1.39	1.46
1	9y	125	PRO	CA-CB	5.74	1.59	1.53
1	11	156	GLY	C-N	-5.74	1.28	1.34
1	ao	83	LEU	CB-CG	5.74	1.65	1.53
1	ap	179	GLN	CA-CB	5.74	1.63	1.53
1	at	162	ARG	CA-C	5.74	1.60	1.52
1	12	24	VAL	CA-CB	-5.74	1.47	1.54
1	b3	108	THR	C-N	5.74	1.41	1.33
1	b7	168	PHE	C-N	5.74	1.41	1.34
1	bu	1	PRO	N-CA	5.74	1.55	1.47
1	bT	100	ARG	CD-NE	5.74	1.54	1.46
1	cx	188	THR	CA-C	5.74	1.60	1.52
1	cG	143	ARG	CA-CB	5.74	1.62	1.53
1	1i	96	MET	N-CA	-5.74	1.39	1.46
1	dq	18	ARG	C-N	5.74	1.41	1.33
1	dZ	226	HIS	ND1-CE1	5.74	1.38	1.32
1	e8	184	TRP	NE1-CE2	-5.74	1.31	1.37
1	1r	221	VAL	N-CA	5.74	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fI	214	MET	N-CA	-5.74	1.39	1.46
1	1B	174	ALA	CA-C	5.74	1.60	1.52
1	e	212	GLU	N-CA	-5.74	1.39	1.46
1	h	21	ASN	N-CA	-5.74	1.39	1.46
1	n	84	HIS	ND1-CE1	5.74	1.38	1.32
1	B	212	GLU	N-CA	-5.74	1.39	1.46
1	N	189	LEU	CA-C	5.74	1.60	1.52
1	gH	214	MET	CA-C	5.74	1.60	1.52
1	gM	165	VAL	CA-CB	-5.74	1.47	1.54
1	1J	229	ARG	CD-NE	5.74	1.54	1.46
1	hw	131	LYS	C-N	5.74	1.41	1.33
1	hx	75	GLU	C-N	5.74	1.41	1.33
1	hx	147	PRO	N-CA	5.74	1.54	1.47
1	ih	13	GLN	C-O	-5.74	1.17	1.23
1	j7	72	THR	CA-CB	-5.74	1.44	1.53
1	jY	165	VAL	C-N	5.74	1.41	1.33
1	k7	191	VAL	CA-C	-5.74	1.45	1.52
1	kD	29	GLU	CA-C	-5.74	1.45	1.52
1	l2	84	HIS	CA-C	5.74	1.59	1.52
1	lA	167	ARG	CD-NE	5.74	1.54	1.46
1	2c	40	PHE	CA-C	5.74	1.60	1.52
1	3l	200	THR	CA-CB	5.74	1.62	1.53
1	3H	183	ASN	C-N	-5.74	1.26	1.33
1	3S	90	PRO	CA-C	5.74	1.58	1.53
1	46	203	LYS	C-N	5.74	1.41	1.33
1	77	229	ARG	N-CA	-5.74	1.38	1.45
1	86	105	ALA	N-CA	-5.74	1.38	1.46
1	87	10	MET	CA-C	-5.74	1.45	1.52
1	88	40	PHE	C-N	5.74	1.41	1.33
1	ab	109	SER	CA-C	-5.74	1.45	1.52
1	ao	219	GLN	C-N	5.74	1.41	1.33
1	15	164	TYR	C-N	5.74	1.41	1.33
1	bm	150	ILE	C-O	-5.74	1.17	1.24
1	bO	202	LEU	CA-C	5.74	1.60	1.52
1	1l	4	GLN	CA-CB	5.74	1.62	1.53
1	eY	143	ARG	CA-CB	5.74	1.62	1.53
1	fG	41	SER	CA-CB	5.74	1.62	1.53
1	n	61	GLY	C-N	5.74	1.41	1.33
1	X	168	PHE	C-N	5.74	1.41	1.33
1	gc	102	SER	CA-CB	5.74	1.63	1.53
1	1D	77	ALA	CA-C	5.74	1.60	1.52
1	gC	164	TYR	CA-CB	5.74	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gJ	221	VAL	CA-C	-5.74	1.45	1.52
1	gP	110	THR	N-CA	5.74	1.52	1.45
1	h9	170	LYS	CA-CB	5.74	1.62	1.53
1	hc	124	ILE	CA-CB	-5.74	1.47	1.53
1	hi	118	MET	N-CA	5.74	1.53	1.46
1	hi	179	GLN	CA-C	-5.74	1.45	1.52
1	hM	16	SER	CA-C	5.74	1.60	1.53
1	hO	116	GLY	C-N	5.74	1.41	1.33
1	i1	25	LYS	N-CA	-5.74	1.39	1.46
1	je	102	SER	N-CA	-5.74	1.38	1.46
1	jj	190	LEU	CA-C	5.74	1.60	1.52
1	1V	97	ARG	CZ-NH2	-5.74	1.25	1.33
1	1V	141	ILE	C-N	5.74	1.41	1.33
1	js	207	PRO	N-CA	5.74	1.55	1.47
1	jH	83	LEU	CA-C	5.74	1.60	1.52
1	k0	56	LEU	CB-CG	5.74	1.65	1.53
1	ke	18	ARG	C-N	5.74	1.41	1.33
1	ki	154	ARG	CA-C	5.74	1.59	1.52
1	kk	80	TRP	C-N	5.74	1.41	1.33
1	ku	144	MET	N-CA	-5.74	1.39	1.46
1	kE	195	ASN	CA-CB	5.74	1.61	1.53
1	kF	27	VAL	CA-CB	-5.74	1.47	1.54
1	kV	219	GLN	N-CA	-5.74	1.39	1.46
1	l3	33	SER	CA-CB	5.74	1.64	1.54
1	l8	117	TRP	CA-CB	5.74	1.62	1.53
1	lt	110	THR	C-N	5.74	1.41	1.33
1	lC	104	ILE	C-N	5.74	1.41	1.33
1	lF	104	ILE	C-O	-5.74	1.16	1.24
1	lG	131	LYS	C-N	5.74	1.41	1.33
1	lL	84	HIS	CG-ND1	-5.74	1.31	1.38
1	lM	173	ARG	CD-NE	5.74	1.54	1.46
1	lO	135	ILE	C-N	-5.74	1.26	1.34
1	2b	203	LYS	N-CA	-5.74	1.39	1.46
1	2k	208	ALA	CA-CB	-5.74	1.46	1.54
1	2u	130	TYR	CA-C	5.74	1.60	1.52
1	2X	174	ALA	CA-C	5.74	1.60	1.52
1	34	12	HIS	CE1-NE2	-5.74	1.26	1.32
1	3l	131	LYS	C-N	5.74	1.41	1.33
1	3P	39	MET	CA-C	5.74	1.60	1.52
1	3U	38	PRO	CA-C	-5.74	1.44	1.52
1	4b	76	GLU	CA-CB	-5.74	1.43	1.53
1	4d	140	LYS	N-CA	-5.74	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	55	12	HIS	CE1-NE2	5.74	1.38	1.32
1	56	87	HIS	CG-CD2	5.74	1.42	1.35
1	5m	8	GLY	CA-C	-5.74	1.43	1.51
1	5r	71	GLU	C-N	5.74	1.42	1.33
1	63	132	ARG	CA-C	5.74	1.60	1.52
1	6k	134	ILE	CB-CG1	5.74	1.65	1.53
1	6x	87	HIS	ND1-CE1	5.74	1.38	1.32
1	6T	157	PRO	C-O	-5.74	1.17	1.24
1	6U	11	VAL	C-N	5.74	1.41	1.33
1	70	160	PRO	C-N	5.74	1.41	1.33
1	7L	54	THR	CA-C	-5.74	1.45	1.52
1	8H	181	VAL	N-CA	-5.74	1.39	1.46
1	8T	49	PRO	C-N	5.74	1.41	1.33
1	91	214	MET	CA-CB	5.74	1.62	1.53
1	96	141	ILE	CA-CB	-5.74	1.47	1.54
1	9X	102	SER	CA-C	-5.74	1.44	1.52
1	ac	90	PRO	C-N	5.74	1.41	1.33
1	ac	221	VAL	CA-CB	5.74	1.61	1.54
1	as	73	ILE	N-CA	-5.74	1.39	1.46
1	az	47	ALA	CA-CB	-5.74	1.43	1.53
1	aT	45	GLU	C-N	5.74	1.41	1.33
1	bl	123	PRO	C-N	5.74	1.39	1.33
1	bC	4	GLN	CA-CB	5.74	1.61	1.53
1	bE	105	ALA	CA-C	5.74	1.60	1.52
1	bU	104	ILE	C-N	5.74	1.42	1.33
1	cf	9	GLN	CA-C	-5.74	1.45	1.52
1	cH	87	HIS	CA-CB	5.74	1.61	1.53
1	dB	185	MET	CA-CB	5.74	1.62	1.53
1	1m	229	ARG	N-CA	5.74	1.53	1.46
1	eA	187	GLU	CA-CB	5.74	1.63	1.53
1	eQ	52	LEU	N-CA	-5.74	1.39	1.46
1	eU	125	PRO	C-N	5.74	1.41	1.33
1	f1	117	TRP	CA-CB	5.74	1.62	1.53
1	f9	144	MET	N-CA	-5.74	1.39	1.46
1	1v	55	MET	CA-CB	5.74	1.62	1.53
1	fh	3	VAL	CA-CB	-5.74	1.47	1.54
1	i	155	GLN	N-CA	-5.74	1.39	1.46
1	u	10	MET	CA-CB	5.74	1.62	1.53
1	y	20	LEU	CA-C	-5.74	1.45	1.52
1	A	57	ASN	CA-CB	5.74	1.62	1.53
1	4	14	ALA	N-CA	-5.74	1.38	1.45
1	gQ	49	PRO	CA-CB	5.73	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hz	217	ALA	CA-CB	5.73	1.61	1.53
1	ip	174	ALA	N-CA	-5.73	1.38	1.46
1	iv	94	GLY	CA-C	-5.73	1.43	1.51
1	jm	1	PRO	N-CD	5.73	1.55	1.47
1	jK	120	HIS	ND1-CE1	5.73	1.38	1.32
1	kk	12	HIS	ND1-CE1	5.73	1.38	1.32
1	kA	75	GLU	CA-CB	5.73	1.62	1.53
1	lb	98	GLU	N-CA	-5.73	1.38	1.46
1	lf	18	ARG	CD-NE	5.73	1.54	1.46
1	lL	149	SER	CA-CB	5.73	1.64	1.53
1	2c	20	LEU	C-N	5.73	1.41	1.33
1	2L	150	ILE	CA-CB	5.73	1.61	1.54
1	2T	49	PRO	C-N	5.73	1.41	1.33
1	41	56	LEU	CA-CB	5.73	1.62	1.53
1	43	200	THR	N-CA	5.73	1.53	1.46
1	47	14	ALA	CA-C	5.73	1.60	1.52
1	6m	64	ALA	CA-CB	5.73	1.62	1.53
1	7z	200	THR	C-N	5.73	1.41	1.33
1	7I	222	GLY	CA-C	-5.73	1.46	1.52
1	7T	73	ILE	CA-C	5.73	1.60	1.52
1	8F	173	ARG	NE-CZ	5.73	1.39	1.33
1	9Y	19	THR	N-CA	5.73	1.53	1.46
1	d7	119	THR	CA-C	5.73	1.60	1.52
1	d9	162	ARG	NE-CZ	5.73	1.39	1.33
1	di	182	LYS	N-CA	-5.73	1.39	1.46
1	eY	56	LEU	CA-C	-5.73	1.45	1.52
1	f0	171	THR	N-CA	5.73	1.53	1.46
1	f4	18	ARG	CA-C	5.73	1.60	1.52
1	fo	211	LEU	C-N	-5.73	1.26	1.33
1	g7	113	GLU	C-N	5.73	1.41	1.33
1	gp	36	VAL	CA-CB	-5.73	1.47	1.54
1	gp	117	TRP	CA-CB	5.73	1.62	1.53
1	1E	197	ASP	CA-C	5.73	1.60	1.52
1	gE	133	TRP	C-N	5.73	1.41	1.33
1	gI	74	ASN	C-N	5.73	1.41	1.33
1	hc	125	PRO	N-CA	5.73	1.51	1.47
1	hc	203	LYS	CA-CB	5.73	1.62	1.53
1	hj	99	PRO	N-CA	-5.73	1.40	1.47
1	hs	134	ILE	CA-C	5.73	1.60	1.52
1	hY	131	LYS	CA-CB	5.73	1.62	1.53
1	iB	184	TRP	CA-C	5.73	1.60	1.52
1	iL	42	ALA	N-CA	-5.73	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iS	79	GLU	N-CA	-5.73	1.39	1.46
1	iX	26	VAL	N-CA	-5.73	1.39	1.46
1	jg	200	THR	CA-C	5.73	1.60	1.52
1	jj	114	GLN	CA-C	5.73	1.60	1.52
1	jt	116	GLY	C-N	5.73	1.41	1.33
1	jE	93	PRO	CA-C	5.73	1.59	1.52
1	jS	42	ALA	C-O	-5.73	1.17	1.24
1	jY	16	SER	CA-CB	5.73	1.62	1.53
1	k7	211	LEU	CA-C	5.73	1.60	1.52
1	kK	48	THR	CA-C	5.73	1.60	1.53
1	kM	87	HIS	ND1-CE1	5.73	1.38	1.32
1	kQ	175	GLU	CA-CB	5.73	1.62	1.53
1	kU	183	ASN	CA-CB	5.73	1.62	1.53
1	l0	174	ALA	CA-CB	5.73	1.63	1.53
1	le	192	GLN	CA-C	5.73	1.60	1.52
1	lt	37	ILE	CA-CB	-5.73	1.51	1.54
1	2l	84	HIS	N-CA	-5.73	1.41	1.46
1	2z	214	MET	CA-C	5.73	1.60	1.52
1	2B	28	GLU	CA-CB	5.73	1.62	1.53
1	2Q	207	PRO	N-CA	-5.73	1.40	1.47
1	3c	167	ARG	CD-NE	5.73	1.54	1.46
1	3w	35	GLU	N-CA	-5.73	1.39	1.46
1	3G	23	TRP	CA-CB	5.73	1.62	1.53
1	3Y	143	ARG	CA-C	-5.73	1.44	1.52
1	41	50	GLN	CA-C	5.73	1.60	1.52
1	47	97	ARG	CZ-NH1	-5.73	1.24	1.32
1	49	11	VAL	N-CA	-5.73	1.39	1.46
1	4c	80	TRP	CA-CB	5.73	1.62	1.53
1	4h	59	VAL	CA-C	-5.73	1.46	1.52
1	4o	6	LEU	CA-C	-5.73	1.44	1.52
1	4t	86	VAL	CA-C	5.73	1.60	1.52
1	56	170	LYS	CA-C	-5.73	1.45	1.52
1	5r	226	HIS	CD2-NE2	5.73	1.44	1.37
1	5T	137	GLY	CA-C	5.73	1.58	1.51
1	5U	199	LYS	CA-CB	5.73	1.62	1.53
1	6C	120	HIS	CA-CB	5.73	1.62	1.53
1	6T	140	LYS	CA-C	5.73	1.60	1.52
1	6W	36	VAL	CA-C	5.73	1.61	1.52
1	74	132	ARG	CA-C	-5.73	1.45	1.52
1	7B	92	GLU	N-CA	5.73	1.52	1.45
1	84	56	LEU	N-CA	-5.73	1.39	1.46
1	96	105	ALA	C-N	5.73	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9b	219	GLN	N-CA	-5.73	1.39	1.46
1	9f	108	THR	CA-C	5.73	1.60	1.52
1	9F	46	GLY	N-CA	5.73	1.52	1.45
1	a2	162	ARG	CA-C	5.73	1.60	1.52
1	am	120	HIS	ND1-CE1	5.73	1.38	1.32
1	ao	180	GLU	C-N	-5.73	1.26	1.33
1	aA	66	MET	N-CA	5.73	1.53	1.46
1	aE	141	ILE	CA-CB	-5.73	1.46	1.54
1	aM	65	ALA	C-N	5.73	1.41	1.33
1	b7	87	HIS	N-CA	-5.73	1.38	1.46
1	bw	126	VAL	N-CA	5.73	1.53	1.46
1	bA	12	HIS	CE1-NE2	5.73	1.38	1.32
1	cb	23	TRP	CD2-CE3	-5.73	1.31	1.40
1	cb	187	GLU	CA-C	5.73	1.60	1.52
1	cs	17	PRO	CA-C	-5.73	1.43	1.52
1	cz	75	GLU	C-O	-5.73	1.17	1.24
1	cG	135	ILE	CA-C	5.73	1.60	1.52
1	cR	208	ALA	C-N	5.73	1.41	1.33
1	d0	86	VAL	CA-C	-5.73	1.46	1.52
1	d3	179	GLN	C-N	5.73	1.41	1.33
1	1i	40	PHE	N-CA	5.73	1.53	1.46
1	1i	76	GLU	N-CA	5.73	1.53	1.46
1	dj	68	MET	CA-CB	5.73	1.62	1.53
1	dB	123	PRO	CA-C	-5.73	1.44	1.52
1	dP	95	GLN	CA-C	-5.73	1.45	1.52
1	e1	92	GLU	CA-C	5.73	1.60	1.52
1	e6	60	GLY	N-CA	5.73	1.53	1.45
1	e	66	MET	N-CA	-5.73	1.39	1.46
1	k	62	HIS	ND1-CE1	5.73	1.38	1.32
1	m	24	VAL	CA-CB	-5.73	1.47	1.54
1	s	230	VAL	CA-C	-5.73	1.45	1.53
1	A	221	VAL	C-N	5.73	1.40	1.34
1	gt	231	LEU	CA-CB	5.73	1.65	1.53
1	gE	108	THR	C-N	5.73	1.41	1.33
1	hi	45	GLU	CA-CB	5.73	1.62	1.53
1	hm	226	HIS	ND1-CE1	5.73	1.38	1.32
1	1O	168	PHE	C-N	5.73	1.41	1.34
1	ik	148	THR	C-N	5.73	1.41	1.33
1	il	201	ILE	C-N	5.73	1.41	1.34
1	iu	38	PRO	N-CD	-5.73	1.39	1.47
1	iA	156	GLY	N-CA	5.73	1.52	1.44
1	jb	198	CYS	C-O	-5.73	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ji	39	MET	CA-C	5.73	1.60	1.52
1	jk	173	ARG	CD-NE	5.73	1.54	1.46
1	jt	57	ASN	N-CA	-5.73	1.38	1.46
1	ju	94	GLY	CA-C	-5.73	1.43	1.51
1	20	120	HIS	ND1-CE1	5.73	1.38	1.32
1	ko	5	ASN	C-N	5.73	1.41	1.33
1	ko	85	PRO	C-N	5.73	1.41	1.33
1	kt	75	GLU	C-O	-5.73	1.17	1.24
1	kD	184	TRP	CA-CB	5.73	1.62	1.53
1	ld	211	LEU	CA-C	-5.73	1.45	1.52
1	27	184	TRP	NE1-CE2	-5.73	1.31	1.37
1	lm	192	GLN	N-CA	5.73	1.53	1.46
1	ls	74	ASN	CA-C	5.73	1.60	1.52
1	lA	133	TRP	CA-CB	5.73	1.62	1.53
1	2b	84	HIS	ND1-CE1	5.73	1.38	1.32
1	2c	143	ARG	CA-C	5.73	1.60	1.52
1	2k	12	HIS	CA-C	-5.73	1.45	1.52
1	2v	134	ILE	CA-CB	5.73	1.61	1.54
1	2y	138	LEU	CA-CB	5.73	1.62	1.53
1	2E	133	TRP	C-N	5.73	1.41	1.33
1	2L	213	GLU	CA-C	-5.73	1.45	1.52
1	39	199	LYS	CA-C	5.73	1.60	1.52
1	3d	221	VAL	N-CA	5.73	1.53	1.46
1	3e	22	ALA	C-O	5.73	1.30	1.24
1	4n	70	LYS	CA-CB	5.73	1.62	1.53
1	4H	131	LYS	N-CA	5.73	1.53	1.46
1	6a	84	HIS	CD2-NE2	5.73	1.44	1.37
1	6s	27	VAL	CA-C	5.73	1.60	1.52
1	7i	88	ALA	N-CA	-5.73	1.37	1.46
1	7N	14	ALA	CA-C	-5.73	1.45	1.52
1	7U	173	ARG	CZ-NH2	-5.73	1.26	1.33
1	83	4	GLN	CA-C	-5.73	1.46	1.53
1	8s	110	THR	C-N	5.73	1.41	1.33
1	8z	216	THR	C-N	5.73	1.41	1.33
1	8B	11	VAL	N-CA	-5.73	1.39	1.46
1	8B	123	PRO	CA-C	-5.73	1.45	1.52
1	8C	221	VAL	CA-C	-5.73	1.45	1.52
1	8L	11	VAL	N-CA	-5.73	1.39	1.46
1	92	162	ARG	CD-NE	5.73	1.54	1.46
1	9z	121	ASN	N-CA	-5.73	1.39	1.46
1	9A	129	ILE	CA-C	-5.73	1.45	1.52
1	9O	84	HIS	ND1-CE1	5.73	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9P	120	HIS	CD2-NE2	5.73	1.44	1.37
1	9Q	59	VAL	C-N	5.73	1.41	1.33
1	a8	94	GLY	C-N	5.73	1.41	1.33
1	aj	111	LEU	CA-CB	5.73	1.62	1.53
1	aO	62	HIS	CA-CB	5.73	1.62	1.53
1	aP	37	ILE	CA-CB	-5.73	1.51	1.54
1	aR	221	VAL	CA-C	-5.73	1.47	1.53
1	aZ	56	LEU	C-N	5.73	1.41	1.34
1	b9	210	THR	C-N	5.73	1.41	1.33
1	bn	49	PRO	N-CA	-5.73	1.40	1.47
1	bA	189	LEU	CA-CB	5.73	1.62	1.53
1	c1	99	PRO	CA-C	5.73	1.59	1.52
1	dr	67	GLN	CA-CB	5.73	1.62	1.53
1	dL	133	TRP	CA-CB	5.73	1.62	1.53
1	dO	55	MET	CA-CB	5.73	1.62	1.53
1	e6	76	GLU	C-N	5.73	1.41	1.33
1	eb	47	ALA	C-N	5.73	1.41	1.33
1	eB	37	ILE	C-N	5.73	1.41	1.34
1	eC	36	VAL	N-CA	5.73	1.53	1.46
1	fc	21	ASN	CA-CB	5.73	1.62	1.53
1	fd	224	PRO	C-N	5.73	1.40	1.33
1	fh	127	GLY	CA-C	-5.73	1.45	1.52
1	fw	144	MET	CA-CB	5.73	1.62	1.53
1	fL	147	PRO	N-CA	5.73	1.55	1.47
1	g3	12	HIS	ND1-CE1	5.73	1.38	1.32
1	g7	133	TRP	CA-CB	5.73	1.62	1.53
1	n	54	THR	C-N	5.73	1.41	1.33
1	J	111	LEU	C-N	5.73	1.41	1.33
1	K	120	HIS	CE1-NE2	5.73	1.38	1.32
1	M	57	ASN	CA-C	-5.73	1.44	1.52
1	g9	5	ASN	C-N	5.73	1.41	1.33
1	gz	226	HIS	CD2-NE2	5.73	1.44	1.37
1	hn	206	GLY	CA-C	5.73	1.60	1.51
1	hH	229	ARG	C-N	-5.73	1.27	1.33
1	hU	55	MET	C-N	5.73	1.41	1.33
1	i8	188	THR	CA-C	-5.73	1.45	1.52
1	iD	163	ASP	N-CA	5.73	1.53	1.46
1	iS	166	ASP	CA-C	5.73	1.60	1.52
1	iT	227	LYS	CA-CB	5.73	1.62	1.53
1	1T	104	ILE	N-CA	-5.73	1.39	1.46
1	jq	10	MET	CA-CB	5.73	1.63	1.53
1	jH	95	GLN	CA-C	-5.73	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jV	215	MET	CA-CB	5.73	1.61	1.53
1	kp	171	THR	C-O	5.73	1.30	1.24
1	l8	164	TYR	C-N	5.73	1.41	1.33
1	lc	1	PRO	N-CD	5.73	1.55	1.47
1	lc	50	GLN	CA-CB	5.73	1.62	1.53
1	36	159	GLU	C-N	5.73	1.40	1.33
1	3f	138	LEU	CA-C	5.73	1.60	1.52
1	4A	211	LEU	C-N	5.73	1.41	1.33
1	4Y	23	TRP	CA-CB	5.73	1.62	1.53
1	5s	24	VAL	CA-C	5.73	1.60	1.52
1	5y	54	THR	CA-C	-5.73	1.45	1.52
1	6o	80	TRP	C-N	5.73	1.41	1.34
1	6G	72	THR	CA-C	-5.73	1.45	1.52
1	6X	117	TRP	NE1-CE2	5.73	1.43	1.37
1	7s	134	ILE	N-CA	-5.73	1.39	1.46
1	7t	199	LYS	CA-C	-5.73	1.45	1.52
1	8h	219	GLN	CA-CB	5.73	1.63	1.53
1	8l	66	MET	N-CA	-5.73	1.39	1.46
1	92	151	LEU	CA-C	-5.73	1.44	1.52
1	9j	229	ARG	C-N	5.73	1.41	1.33
1	9u	78	ALA	CA-C	5.73	1.60	1.52
1	ac	210	THR	CA-C	5.73	1.60	1.52
1	am	92	GLU	CA-C	-5.73	1.45	1.53
1	br	91	ILE	C-N	5.73	1.41	1.33
1	ca	59	VAL	N-CA	-5.73	1.39	1.46
1	1f	3	VAL	CA-C	5.73	1.60	1.52
1	cC	67	GLN	CA-C	-5.73	1.45	1.52
1	dv	120	HIS	CE1-NE2	-5.73	1.26	1.32
1	ed	162	ARG	CD-NE	5.73	1.54	1.46
1	ex	48	THR	C-N	5.73	1.41	1.33
1	fj	162	ARG	C-N	5.73	1.41	1.33
1	g4	111	LEU	CA-CB	5.73	1.62	1.53
1	h	82	ARG	CZ-NH2	-5.73	1.26	1.33
1	M	98	GLU	CA-C	5.73	1.59	1.52
1	T	100	ARG	CZ-NH2	-5.73	1.26	1.33
1	gh	88	ALA	N-CA	-5.73	1.39	1.46
1	1D	15	ILE	CA-CB	-5.73	1.48	1.54
1	gJ	69	LEU	CA-CB	5.73	1.62	1.53
1	gN	117	TRP	CA-C	-5.73	1.45	1.52
1	gS	104	ILE	CA-C	5.73	1.60	1.52
1	he	221	VAL	CA-CB	-5.73	1.47	1.55
1	hT	80	TRP	CZ2-CH2	5.73	1.48	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i4	203	LYS	CA-C	5.73	1.60	1.52
1	1R	205	LEU	CA-CB	5.73	1.63	1.53
1	iL	70	LYS	CA-C	5.73	1.60	1.52
1	iR	87	HIS	ND1-CE1	5.73	1.38	1.32
1	j4	23	TRP	N-CA	-5.73	1.39	1.46
1	j8	118	MET	CA-CB	5.73	1.63	1.53
1	jk	26	VAL	C-O	-5.73	1.17	1.24
1	jl	184	TRP	CA-CB	5.73	1.62	1.53
1	jx	215	MET	CG-SD	5.73	1.95	1.80
1	jG	80	TRP	NE1-CE2	-5.73	1.31	1.37
1	k8	142	VAL	CA-CB	5.73	1.61	1.54
1	kK	119	THR	CA-C	5.73	1.60	1.52
1	kN	135	ILE	C-O	-5.73	1.17	1.24
1	kZ	229	ARG	N-CA	5.73	1.52	1.45
1	l3	42	ALA	CA-CB	5.73	1.62	1.53
1	lb	194	ALA	CA-C	-5.73	1.45	1.53
1	lq	220	GLY	N-CA	5.73	1.52	1.44
1	lu	109	SER	CA-C	-5.73	1.45	1.52
1	lz	195	ASN	N-CA	5.73	1.52	1.45
1	2n	23	TRP	CA-C	5.73	1.60	1.52
1	2p	104	ILE	N-CA	-5.73	1.38	1.46
1	2H	160	PRO	N-CA	-5.73	1.40	1.47
1	37	49	PRO	CA-C	5.73	1.60	1.52
1	3j	205	LEU	CA-C	-5.73	1.45	1.52
1	3t	99	PRO	C-O	5.73	1.30	1.23
1	46	132	ARG	CD-NE	5.73	1.54	1.46
1	4A	134	ILE	N-CA	-5.73	1.39	1.46
1	4Z	95	GLN	C-N	5.73	1.41	1.33
1	5w	5	ASN	N-CA	-5.73	1.39	1.46
1	5V	106	GLY	C-N	-5.73	1.26	1.33
1	63	34	PRO	CA-CB	-5.73	1.45	1.53
1	65	83	LEU	CA-C	-5.73	1.45	1.52
1	7f	134	ILE	C-N	5.73	1.40	1.33
1	7p	9	GLN	CA-CB	5.73	1.62	1.53
1	7E	181	VAL	CA-CB	5.73	1.61	1.54
1	8a	48	THR	C-N	5.73	1.41	1.34
1	8N	113	GLU	CA-C	5.73	1.60	1.52
1	8P	226	HIS	CD2-NE2	5.73	1.44	1.37
1	8Q	19	THR	C-N	5.73	1.41	1.33
1	9C	60	GLY	CA-C	-5.73	1.43	1.51
1	ae	45	GLU	C-N	5.73	1.40	1.33
1	ag	143	ARG	CA-CB	5.73	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aH	139	ASN	N-CA	-5.73	1.39	1.46
1	b5	70	LYS	CA-CB	5.73	1.62	1.53
1	bg	89	GLY	CA-C	-5.73	1.43	1.51
1	bi	33	SER	CA-C	5.73	1.59	1.52
1	19	226	HIS	ND1-CE1	5.73	1.38	1.32
1	bD	72	THR	N-CA	5.73	1.53	1.46
1	1b	80	TRP	CA-C	5.73	1.60	1.52
1	bX	143	ARG	CA-C	5.73	1.60	1.52
1	c9	153	ILE	N-CA	5.73	1.53	1.46
1	cb	151	LEU	N-CA	5.73	1.53	1.46
1	cE	65	ALA	N-CA	-5.73	1.39	1.46
1	cH	203	LYS	C-O	-5.73	1.16	1.24
1	cW	184	TRP	NE1-CE2	5.73	1.43	1.37
1	d0	196	PRO	C-N	-5.73	1.26	1.34
1	dn	14	ALA	C-N	5.73	1.40	1.33
1	dn	107	THR	C-N	5.73	1.41	1.33
1	ds	15	ILE	CA-CB	5.73	1.61	1.54
1	dH	175	GLU	CA-CB	5.73	1.61	1.53
1	dX	185	MET	SD-CE	5.73	1.93	1.79
1	e6	83	LEU	C-N	5.73	1.39	1.33
1	en	182	LYS	N-CA	-5.73	1.39	1.46
1	eS	170	LYS	C-N	5.73	1.41	1.34
1	eU	147	PRO	C-N	5.73	1.41	1.33
1	f0	45	GLU	N-CA	-5.73	1.39	1.46
1	1w	141	ILE	N-CA	5.73	1.53	1.46
1	fn	133	TRP	NE1-CE2	5.73	1.43	1.37
1	fS	98	GLU	CA-C	5.73	1.59	1.53
1	fZ	58	THR	CA-C	5.73	1.60	1.52
1	4	136	LEU	CA-CB	5.73	1.62	1.53
1	R	192	GLN	CA-CB	5.73	1.62	1.53
1	gb	162	ARG	CD-NE	5.73	1.54	1.46
1	gR	84	HIS	ND1-CE1	5.73	1.38	1.32
1	hf	100	ARG	CZ-NH2	-5.73	1.26	1.33
1	ij	71	GLU	CA-C	-5.73	1.44	1.52
1	io	116	GLY	CA-C	5.73	1.58	1.52
1	ix	115	ILE	CA-CB	-5.73	1.47	1.54
1	jX	115	ILE	CA-CB	5.73	1.61	1.54
1	k7	162	ARG	N-CA	-5.73	1.38	1.46
1	kE	15	ILE	CA-CB	5.73	1.60	1.54
1	kH	48	THR	C-N	-5.73	1.26	1.33
1	kV	8	GLY	CA-C	-5.73	1.46	1.52
1	l6	228	ALA	N-CA	-5.73	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l8	113	GLU	CA-C	5.73	1.60	1.52
1	lt	100	ARG	CA-C	-5.73	1.45	1.53
1	lF	224	PRO	N-CD	-5.73	1.39	1.47
1	3B	22	ALA	N-CA	-5.73	1.39	1.46
1	4l	122	PRO	C-N	5.73	1.40	1.33
1	4y	105	ALA	N-CA	-5.73	1.38	1.46
1	4S	148	THR	CA-C	5.73	1.59	1.52
1	57	229	ARG	CD-NE	5.73	1.54	1.46
1	7g	228	ALA	C-N	5.73	1.40	1.33
1	7m	126	VAL	C-N	5.73	1.41	1.33
1	7n	86	VAL	CA-CB	5.73	1.60	1.54
1	7Z	69	LEU	C-N	5.73	1.41	1.33
1	8U	191	VAL	CA-C	-5.73	1.45	1.52
1	ag	44	SER	C-N	5.73	1.41	1.33
1	12	194	ALA	C-N	5.73	1.41	1.33
1	aJ	89	GLY	CA-C	-5.73	1.43	1.51
1	1a	18	ARG	CA-C	-5.73	1.45	1.52
1	cw	121	ASN	CA-C	5.73	1.60	1.52
1	cY	195	ASN	CA-CB	5.73	1.62	1.53
1	1i	91	ILE	CA-CB	5.73	1.61	1.54
1	d9	88	ALA	N-CA	-5.73	1.38	1.45
1	dr	156	GLY	C-N	-5.73	1.28	1.33
1	dJ	108	THR	C-N	5.73	1.41	1.33
1	dT	212	GLU	CA-CB	5.73	1.63	1.53
1	eC	136	LEU	CA-C	5.73	1.60	1.52
1	eQ	112	GLN	CA-C	5.73	1.60	1.52
1	f5	82	ARG	CA-C	5.73	1.60	1.52
1	fR	153	ILE	CA-CB	5.73	1.61	1.54
1	V	53	ASN	CA-C	-5.73	1.45	1.52
1	gd	125	PRO	CA-CB	5.72	1.60	1.53
1	go	21	ASN	N-CA	5.72	1.53	1.46
1	gp	124	ILE	CA-C	5.72	1.58	1.52
1	gw	208	ALA	N-CA	5.72	1.53	1.46
1	gJ	193	ASN	C-N	5.72	1.41	1.33
1	gS	57	ASN	CA-C	5.72	1.60	1.52
1	gU	201	ILE	C-N	5.72	1.41	1.33
1	gY	121	ASN	CA-C	5.72	1.59	1.52
1	h3	37	ILE	CA-C	5.72	1.57	1.52
1	1I	87	HIS	CB-CG	5.72	1.58	1.50
1	1I	197	ASP	CA-C	5.72	1.60	1.52
1	hp	185	MET	CA-CB	5.72	1.62	1.53
1	hv	183	ASN	CA-C	5.72	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hM	153	ILE	N-CA	-5.72	1.40	1.46
1	1Q	54	THR	C-O	-5.72	1.17	1.24
1	iR	204	ALA	CA-C	5.72	1.60	1.52
1	j1	63	GLN	N-CA	-5.72	1.38	1.46
1	jd	154	ARG	CZ-NH1	-5.72	1.24	1.32
1	jA	7	GLN	CA-C	-5.72	1.45	1.52
1	jR	211	LEU	CB-CG	5.72	1.65	1.53
1	jS	117	TRP	CD2-CE3	-5.72	1.31	1.40
1	kp	26	VAL	CA-CB	5.72	1.61	1.54
1	22	90	PRO	CA-C	-5.72	1.46	1.52
1	kw	175	GLU	CA-CB	5.72	1.61	1.53
1	kx	132	ARG	N-CA	-5.72	1.39	1.46
1	kX	37	ILE	CA-C	5.72	1.57	1.52
1	lv	196	PRO	CA-C	-5.72	1.43	1.52
1	lG	190	LEU	CA-CB	5.72	1.62	1.53
1	2a	128	GLU	CA-C	5.72	1.60	1.52
1	2s	176	GLN	CA-C	-5.72	1.45	1.52
1	2I	209	ALA	N-CA	5.72	1.53	1.46
1	2M	139	ASN	CA-CB	5.72	1.62	1.53
1	30	211	LEU	CA-C	5.72	1.60	1.52
1	3d	21	ASN	CA-C	-5.72	1.45	1.52
1	3Q	54	THR	CA-C	5.72	1.60	1.52
1	4c	40	PHE	CA-CB	5.72	1.62	1.53
1	4h	91	ILE	CA-CB	-5.72	1.47	1.54
1	4l	18	ARG	CA-CB	-5.72	1.44	1.53
1	4r	78	ALA	N-CA	-5.72	1.39	1.46
1	4R	27	VAL	C-N	5.72	1.41	1.33
1	4T	40	PHE	CA-CB	5.72	1.62	1.53
1	59	34	PRO	N-CA	5.72	1.54	1.47
1	5f	198	CYS	C-N	5.72	1.41	1.33
1	5o	18	ARG	CD-NE	5.72	1.54	1.46
1	5z	117	TRP	C-O	-5.72	1.17	1.24
1	6Y	224	PRO	N-CA	-5.72	1.40	1.47
1	7t	117	TRP	NE1-CE2	-5.72	1.31	1.37
1	7z	187	GLU	CA-C	5.72	1.60	1.52
1	7Q	106	GLY	C-N	5.72	1.40	1.33
1	7T	110	THR	CA-C	-5.72	1.45	1.52
1	83	226	HIS	CA-C	5.72	1.59	1.52
1	8f	198	CYS	CA-C	5.72	1.60	1.52
1	9c	128	GLU	CA-CB	5.72	1.62	1.53
1	9n	184	TRP	CA-C	5.72	1.60	1.52
1	9H	195	ASN	CA-C	5.72	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	Z	50	GLN	CA-CB	5.72	1.62	1.53
1	ag	70	LYS	C-N	5.72	1.41	1.33
1	ai	146	SER	C-N	5.72	1.38	1.33
1	11	130	TYR	CA-C	5.72	1.60	1.52
1	12	124	ILE	CA-C	5.72	1.57	1.52
1	b4	40	PHE	CA-C	-5.72	1.44	1.52
1	b4	143	ARG	N-CA	-5.72	1.39	1.46
1	ba	57	ASN	CA-C	5.72	1.60	1.52
1	1c	12	HIS	CE1-NE2	-5.72	1.26	1.32
1	c9	121	ASN	CA-CB	5.72	1.59	1.53
1	cu	47	ALA	N-CA	-5.72	1.38	1.46
1	cA	113	GLU	N-CA	5.72	1.53	1.46
1	cF	198	CYS	CA-CB	5.72	1.62	1.53
1	1g	226	HIS	CG-ND1	-5.72	1.31	1.38
1	dS	37	ILE	CA-C	5.72	1.58	1.52
1	dU	120	HIS	CA-CB	5.72	1.60	1.53
1	dZ	10	MET	CA-C	-5.72	1.45	1.52
1	dZ	15	ILE	CA-C	5.72	1.60	1.52
1	ec	190	LEU	N-CA	5.72	1.53	1.46
1	ed	138	LEU	CA-C	5.72	1.60	1.52
1	eR	133	TRP	NE1-CE2	-5.72	1.31	1.37
1	1v	146	SER	CA-C	-5.72	1.47	1.53
1	fx	41	SER	C-O	-5.72	1.17	1.24
1	fL	196	PRO	C-N	5.72	1.42	1.33
1	y	7	GLN	N-CA	5.72	1.53	1.46
1	gu	1	PRO	C-N	5.72	1.40	1.33
1	gA	167	ARG	C-N	5.72	1.41	1.33
1	1E	230	VAL	CA-C	5.72	1.59	1.52
1	gL	200	THR	CB-OG1	-5.72	1.34	1.43
1	gT	54	THR	C-N	5.72	1.41	1.33
1	h4	207	PRO	N-CA	-5.72	1.42	1.47
1	h5	111	LEU	C-N	5.72	1.41	1.33
1	ik	177	ALA	N-CA	5.72	1.53	1.46
1	iu	183	ASN	CA-C	5.72	1.60	1.52
1	j0	87	HIS	CB-CG	5.72	1.58	1.50
1	j5	60	GLY	C-O	-5.72	1.16	1.23
1	jn	177	ALA	CA-C	5.72	1.60	1.52
1	jM	33	SER	CA-CB	5.72	1.62	1.54
1	21	143	ARG	NE-CZ	-5.72	1.26	1.33
1	kK	71	GLU	N-CA	-5.72	1.39	1.46
1	l4	210	THR	C-N	5.72	1.41	1.33
1	l9	115	ILE	C-N	5.72	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lw	215	MET	C-N	5.72	1.41	1.33
1	lI	134	ILE	CA-C	5.72	1.59	1.52
1	lI	139	ASN	CA-CB	5.72	1.62	1.53
1	2Y	102	SER	CA-CB	5.72	1.63	1.53
1	35	1	PRO	N-CA	5.72	1.55	1.47
1	3u	185	MET	CA-C	5.72	1.60	1.52
1	3v	149	SER	CA-CB	5.72	1.61	1.53
1	3y	25	LYS	CA-C	-5.72	1.45	1.52
1	3z	189	LEU	C-N	5.72	1.41	1.33
1	3H	82	ARG	NE-CZ	-5.72	1.26	1.33
1	3X	141	ILE	CA-CB	-5.72	1.47	1.54
1	4e	12	HIS	CE1-NE2	5.72	1.38	1.32
1	4k	161	PHE	N-CA	-5.72	1.39	1.46
1	4s	207	PRO	N-CA	-5.72	1.40	1.47
1	4y	15	ILE	CA-CB	5.72	1.60	1.54
1	4C	140	LYS	N-CA	5.72	1.53	1.46
1	4U	123	PRO	C-N	5.72	1.38	1.33
1	5H	149	SER	CA-C	-5.72	1.45	1.53
1	5I	12	HIS	ND1-CE1	5.72	1.38	1.32
1	5V	126	VAL	C-N	-5.72	1.27	1.33
1	6f	229	ARG	CZ-NH2	-5.72	1.26	1.33
1	6n	25	LYS	C-O	-5.72	1.17	1.24
1	6u	80	TRP	CA-C	-5.72	1.45	1.52
1	7f	168	PHE	C-N	5.72	1.41	1.34
1	7B	74	ASN	N-CA	-5.72	1.39	1.46
1	7Y	112	GLN	C-N	5.72	1.41	1.33
1	8a	173	ARG	CZ-NH1	-5.72	1.24	1.32
1	8v	143	ARG	CD-NE	5.72	1.54	1.46
1	8Y	101	GLY	N-CA	-5.72	1.38	1.45
1	9f	192	GLN	CA-CB	5.72	1.62	1.53
1	9p	201	ILE	C-N	5.72	1.41	1.34
1	9w	39	MET	C-N	5.72	1.40	1.33
1	9O	145	TYR	CA-CB	5.72	1.63	1.53
1	9Y	107	THR	CA-CB	5.72	1.62	1.53
1	a6	182	LYS	CA-CB	5.72	1.62	1.53
1	aa	116	GLY	CA-C	-5.72	1.45	1.51
1	ab	15	ILE	CA-CB	-5.72	1.47	1.54
1	11	198	CYS	C-N	5.72	1.41	1.33
1	aN	72	THR	C-O	-5.72	1.17	1.24
1	15	217	ALA	CA-CB	5.72	1.61	1.53
1	be	202	LEU	CA-CB	5.72	1.62	1.53
1	br	142	VAL	CA-C	5.72	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bO	164	TYR	C-N	5.72	1.41	1.33
1	c9	69	LEU	CA-CB	5.72	1.62	1.53
1	ch	181	VAL	N-CA	5.72	1.53	1.46
1	cI	97	ARG	CD-NE	5.72	1.54	1.46
1	cI	113	GLU	C-N	5.72	1.41	1.33
1	cP	2	ILE	CA-C	-5.72	1.46	1.52
1	cX	184	TRP	CA-C	5.72	1.60	1.52
1	dq	2	ILE	CA-CB	-5.72	1.47	1.54
1	dH	211	LEU	CA-C	5.72	1.60	1.52
1	e0	74	ASN	CA-CB	5.72	1.62	1.53
1	1p	84	HIS	ND1-CE1	5.72	1.38	1.32
1	ev	100	ARG	CA-CB	5.72	1.61	1.53
1	ew	51	ASP	CA-C	-5.72	1.45	1.52
1	eB	54	THR	CA-C	-5.72	1.45	1.52
1	eF	7	GLN	C-N	5.72	1.41	1.33
1	f1	97	ARG	CZ-NH2	-5.72	1.26	1.33
1	ft	211	LEU	N-CA	-5.72	1.39	1.46
1	fE	120	HIS	CD2-NE2	5.72	1.44	1.37
1	fL	127	GLY	C-N	5.72	1.41	1.33
1	g2	179	GLN	N-CA	-5.72	1.39	1.46
1	E	114	GLN	C-N	5.72	1.40	1.34
1	gW	226	HIS	CA-C	-5.72	1.45	1.52
1	iU	162	ARG	CD-NE	5.72	1.54	1.46
1	jo	24	VAL	CA-CB	-5.72	1.47	1.54
1	jq	150	ILE	CA-CB	5.72	1.62	1.54
1	jV	101	GLY	CA-C	5.72	1.59	1.51
1	lx	133	TRP	CA-CB	5.72	1.62	1.53
1	2L	149	SER	C-N	5.72	1.41	1.33
1	3S	155	GLN	N-CA	5.72	1.53	1.46
1	52	2	ILE	CA-CB	-5.72	1.47	1.54
1	5n	216	THR	CA-CB	5.72	1.62	1.53
1	5W	193	ASN	C-N	5.72	1.41	1.33
1	6x	140	LYS	C-N	5.72	1.41	1.33
1	6Y	109	SER	N-CA	-5.72	1.39	1.46
1	7P	87	HIS	CE1-NE2	5.72	1.38	1.32
1	7T	53	ASN	CA-CB	5.72	1.62	1.53
1	b9	226	HIS	CE1-NE2	-5.72	1.26	1.32
1	bd	140	LYS	C-N	5.72	1.41	1.33
1	bi	182	LYS	CA-C	5.72	1.60	1.52
1	cC	202	LEU	CA-C	5.72	1.60	1.52
1	d2	92	GLU	CA-CB	5.72	1.62	1.53
1	dF	169	TYR	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dF	194	ALA	CA-C	5.72	1.60	1.53
1	dM	171	THR	CA-C	5.72	1.60	1.52
1	e3	54	THR	C-N	5.72	1.41	1.33
1	e5	144	MET	CA-C	-5.72	1.45	1.52
1	ee	148	THR	C-N	5.72	1.41	1.33
1	1u	186	THR	C-N	5.72	1.41	1.33
1	0	108	THR	CA-C	-5.72	1.45	1.52
1	c	80	TRP	NE1-CE2	5.72	1.43	1.37
1	B	200	THR	CA-C	5.72	1.60	1.52
1	3	213	GLU	CA-CB	5.72	1.62	1.53
1	gp	223	GLY	CA-C	5.72	1.60	1.51
1	gB	94	GLY	N-CA	5.72	1.52	1.45
1	gI	82	ARG	C-N	5.72	1.41	1.33
1	gN	56	LEU	CA-C	5.72	1.60	1.52
1	hf	117	TRP	CA-CB	5.72	1.62	1.53
1	1L	163	ASP	CA-C	5.72	1.60	1.52
1	i8	91	ILE	C-O	-5.72	1.17	1.24
1	im	167	ARG	CD-NE	5.72	1.54	1.46
1	is	147	PRO	C-N	5.72	1.40	1.33
1	it	16	SER	CA-CB	5.72	1.64	1.53
1	iK	62	HIS	CG-ND1	5.72	1.44	1.38
1	iM	168	PHE	C-N	-5.72	1.26	1.33
1	iQ	158	LYS	CA-C	-5.72	1.45	1.52
1	iT	213	GLU	CA-C	5.72	1.60	1.52
1	iW	3	VAL	CA-C	-5.72	1.45	1.52
1	ja	33	SER	CA-CB	5.72	1.60	1.53
1	js	15	ILE	N-CA	-5.72	1.39	1.46
1	jx	55	MET	C-N	5.72	1.41	1.33
1	jL	62	HIS	CA-C	5.72	1.60	1.53
1	jU	174	ALA	CA-C	-5.72	1.45	1.52
1	1Z	93	PRO	N-CD	5.72	1.55	1.47
1	k0	183	ASN	CA-CB	5.72	1.62	1.53
1	ky	68	MET	N-CA	5.72	1.53	1.46
1	kV	62	HIS	CE1-NE2	5.72	1.38	1.32
1	lA	141	ILE	CA-C	5.72	1.61	1.52
1	lL	93	PRO	CA-C	-5.72	1.46	1.52
1	lP	15	ILE	C-N	5.72	1.41	1.33
1	2t	89	GLY	N-CA	5.72	1.52	1.44
1	2Q	12	HIS	CA-CB	5.72	1.61	1.53
1	2V	25	LYS	CA-CB	5.72	1.62	1.53
1	3d	95	GLN	CA-CB	5.72	1.62	1.53
1	3d	132	ARG	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3m	121	ASN	CA-C	-5.72	1.45	1.52
1	3x	148	THR	CA-C	-5.72	1.45	1.52
1	3y	159	GLU	C-N	5.72	1.41	1.33
1	3C	160	PRO	N-CD	5.72	1.55	1.47
1	3F	147	PRO	N-CA	-5.72	1.41	1.46
1	4b	18	ARG	CA-C	5.72	1.60	1.52
1	4r	26	VAL	CA-CB	5.72	1.61	1.54
1	4O	51	ASP	CA-C	5.72	1.60	1.52
1	4O	228	ALA	CA-CB	-5.72	1.44	1.53
1	4W	64	ALA	N-CA	-5.72	1.39	1.46
1	51	36	VAL	CA-C	-5.72	1.45	1.52
1	54	226	HIS	C-N	5.72	1.41	1.33
1	5b	103	ASP	CA-CB	5.72	1.62	1.53
1	5d	31	ALA	CA-C	5.72	1.60	1.53
1	5x	77	ALA	C-N	5.72	1.41	1.33
1	5S	13	GLN	C-N	5.72	1.41	1.33
1	60	171	THR	C-O	5.72	1.30	1.24
1	62	84	HIS	CB-CG	5.72	1.58	1.50
1	6E	104	ILE	CA-C	-5.72	1.45	1.52
1	6H	18	ARG	CZ-NH2	-5.72	1.26	1.33
1	6U	90	PRO	N-CA	5.72	1.54	1.47
1	73	184	TRP	C-N	5.72	1.41	1.33
1	76	72	THR	CA-C	-5.72	1.45	1.52
1	77	226	HIS	ND1-CE1	5.72	1.38	1.32
1	7j	181	VAL	CA-C	5.72	1.60	1.52
1	7l	226	HIS	ND1-CE1	5.72	1.38	1.32
1	7X	80	TRP	CA-CB	5.72	1.62	1.53
1	7Z	209	ALA	CA-C	-5.72	1.45	1.52
1	8l	30	LYS	CA-CB	5.72	1.62	1.54
1	8w	16	SER	CA-CB	5.72	1.62	1.53
1	8L	79	GLU	CA-C	5.72	1.60	1.52
1	8Q	51	ASP	C-O	-5.72	1.17	1.24
1	9q	187	GLU	CA-C	5.72	1.60	1.52
1	9K	42	ALA	N-CA	-5.72	1.38	1.46
1	9O	156	GLY	C-O	5.72	1.31	1.24
1	a3	209	ALA	CA-C	5.72	1.60	1.52
1	a5	100	ARG	CZ-NH2	-5.72	1.26	1.33
1	a7	140	LYS	CA-CB	5.72	1.62	1.53
1	ae	128	GLU	CA-CB	-5.72	1.44	1.53
1	aq	179	GLN	N-CA	5.72	1.53	1.46
1	au	102	SER	CA-C	-5.72	1.45	1.52
1	aX	72	THR	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bg	26	VAL	CA-C	5.72	1.59	1.52
1	bn	33	SER	C-N	5.72	1.39	1.34
1	cC	203	LYS	C-N	5.72	1.41	1.33
1	cV	145	TYR	CA-CB	5.72	1.62	1.53
1	d5	128	GLU	CA-C	-5.72	1.45	1.52
1	dG	195	ASN	CA-C	5.72	1.59	1.53
1	1q	84	HIS	N-CA	-5.72	1.39	1.46
1	eP	105	ALA	CA-CB	5.72	1.61	1.53
1	fN	26	VAL	CA-CB	-5.72	1.47	1.54
1	g0	120	HIS	CG-ND1	-5.72	1.31	1.38
1	g4	37	ILE	N-CA	5.72	1.53	1.46
1	h	23	TRP	N-CA	-5.72	1.39	1.46
1	n	195	ASN	CA-CB	5.72	1.61	1.53
1	2	165	VAL	CA-C	-5.72	1.45	1.52
1	M	231	LEU	CA-CB	5.72	1.64	1.53
1	he	191	VAL	N-CA	-5.72	1.39	1.46
1	1I	200	THR	C-O	-5.72	1.17	1.24
1	i8	29	GLU	CA-CB	5.72	1.62	1.53
1	iV	14	ALA	CA-CB	5.72	1.61	1.53
1	jB	116	GLY	N-CA	5.72	1.53	1.45
1	jT	128	GLU	N-CA	5.72	1.53	1.46
1	k2	33	SER	C-N	-5.72	1.26	1.34
1	l1	97	ARG	NE-CZ	-5.72	1.26	1.33
1	l5	126	VAL	N-CA	5.72	1.53	1.46
1	l6	54	THR	CB-OG1	5.72	1.52	1.43
1	3u	26	VAL	CA-C	-5.72	1.45	1.52
1	47	194	ALA	N-CA	5.72	1.53	1.46
1	4g	59	VAL	C-N	5.72	1.41	1.33
1	5o	131	LYS	CA-C	-5.72	1.45	1.52
1	5q	155	GLN	CA-CB	5.72	1.62	1.53
1	5t	13	GLN	CA-CB	5.72	1.62	1.53
1	8O	57	ASN	CA-CB	5.72	1.62	1.53
1	9d	138	LEU	CA-C	5.72	1.60	1.52
1	9g	87	HIS	ND1-CE1	5.72	1.38	1.32
1	9i	29	GLU	CA-C	5.72	1.59	1.52
1	9u	167	ARG	C-N	5.72	1.41	1.33
1	9K	1	PRO	N-CD	5.72	1.55	1.47
1	9L	59	VAL	C-N	5.72	1.41	1.33
1	b6	164	TYR	CA-C	5.72	1.60	1.52
1	cH	85	PRO	N-CA	-5.72	1.40	1.47
1	dI	173	ARG	C-N	5.72	1.42	1.33
1	eX	81	ASP	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fW	143	ARG	CD-NE	5.72	1.54	1.46
1	fZ	48	THR	CA-C	5.72	1.60	1.53
1	n	88	ALA	CA-C	-5.72	1.45	1.52
1	F	168	PHE	CA-C	-5.72	1.45	1.52
1	gp	73	ILE	N-CA	-5.72	1.40	1.46
1	gp	123	PRO	CA-CB	5.72	1.61	1.53
1	gx	51	ASP	CA-CB	5.72	1.62	1.53
1	gM	7	GLN	CA-CB	5.72	1.63	1.53
1	gQ	6	LEU	N-CA	5.72	1.53	1.46
1	hd	136	LEU	N-CA	-5.72	1.39	1.46
1	hN	190	LEU	C-N	5.72	1.41	1.33
1	hR	165	VAL	CA-CB	-5.72	1.47	1.54
1	iw	182	LYS	CA-CB	5.72	1.62	1.53
1	jl	186	THR	N-CA	5.72	1.53	1.46
1	jr	146	SER	CA-CB	5.72	1.63	1.53
1	jx	53	ASN	N-CA	5.72	1.53	1.46
1	jA	27	VAL	C-N	5.72	1.41	1.33
1	jP	19	THR	CB-OG1	-5.72	1.34	1.43
1	jV	38	PRO	N-CA	-5.72	1.40	1.47
1	kq	125	PRO	CA-CB	5.72	1.59	1.53
1	kF	158	LYS	N-CA	-5.72	1.40	1.46
1	kP	134	ILE	C-N	5.72	1.41	1.33
1	kS	144	MET	CA-CB	5.72	1.62	1.53
1	l2	120	HIS	ND1-CE1	5.72	1.38	1.32
1	lc	34	PRO	CA-C	-5.72	1.44	1.52
1	lq	132	ARG	CD-NE	5.72	1.54	1.46
1	lQ	116	GLY	N-CA	-5.72	1.38	1.45
1	2w	2	ILE	C-O	-5.72	1.18	1.24
1	2U	146	SER	CA-CB	5.72	1.64	1.53
1	30	59	VAL	CA-C	-5.72	1.45	1.52
1	37	135	ILE	N-CA	5.72	1.53	1.46
1	3t	115	ILE	CA-C	5.72	1.60	1.52
1	45	28	GLU	CA-C	-5.72	1.44	1.52
1	45	33	SER	CA-CB	5.72	1.61	1.53
1	49	80	TRP	NE1-CE2	5.72	1.43	1.37
1	4h	86	VAL	N-CA	5.72	1.53	1.46
1	4i	134	ILE	C-N	5.72	1.41	1.33
1	4o	211	LEU	CA-CB	5.72	1.62	1.53
1	4v	21	ASN	C-O	5.72	1.30	1.24
1	4G	93	PRO	N-CA	-5.72	1.40	1.47
1	4L	136	LEU	CA-C	5.72	1.60	1.52
1	5s	4	GLN	C-N	5.72	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5u	123	PRO	N-CD	-5.72	1.39	1.47
1	6p	207	PRO	N-CA	5.72	1.54	1.47
1	6H	55	MET	N-CA	5.72	1.53	1.46
1	6R	120	HIS	CB-CG	5.72	1.58	1.50
1	7E	195	ASN	CA-C	5.72	1.59	1.53
1	7X	84	HIS	CB-CG	5.72	1.58	1.50
1	80	138	LEU	C-O	-5.72	1.17	1.24
1	8i	137	GLY	N-CA	-5.72	1.38	1.45
1	8k	25	LYS	CA-CB	5.72	1.62	1.53
1	9A	100	ARG	CA-C	5.72	1.60	1.53
1	a9	143	ARG	CD-NE	5.72	1.54	1.46
1	at	100	ARG	N-CA	5.72	1.52	1.45
1	aZ	99	PRO	N-CD	-5.72	1.39	1.47
1	bw	19	THR	N-CA	5.72	1.53	1.46
1	bA	218	CYS	CA-CB	5.72	1.61	1.53
1	bB	81	ASP	N-CA	-5.72	1.39	1.46
1	cb	152	ASP	CA-CB	5.72	1.62	1.53
1	cS	225	GLY	C-N	5.72	1.41	1.33
1	dm	162	ARG	CA-CB	5.72	1.62	1.53
1	dv	15	ILE	CA-C	-5.72	1.46	1.52
1	e1	78	ALA	CA-CB	5.72	1.62	1.53
1	1p	12	HIS	CD2-NE2	5.72	1.44	1.37
1	eB	68	MET	C-N	5.72	1.41	1.33
1	fj	112	GLN	C-N	5.72	1.41	1.33
1	fu	62	HIS	CD2-NE2	-5.72	1.31	1.37
1	fv	87	HIS	ND1-CE1	5.72	1.38	1.32
1	fv	147	PRO	C-N	5.72	1.40	1.33
1	fC	83	LEU	CB-CG	5.72	1.64	1.53
1	fI	134	ILE	C-N	5.72	1.41	1.33
1	g7	50	GLN	CA-CB	5.72	1.62	1.53
1	k	23	TRP	NE1-CE2	5.72	1.43	1.37
1	n	164	TYR	CA-C	5.72	1.60	1.52
1	gf	172	LEU	C-N	5.71	1.42	1.33
1	h5	108	THR	N-CA	5.71	1.53	1.46
1	i7	35	GLU	N-CA	-5.71	1.38	1.46
1	1O	171	THR	C-N	5.71	1.41	1.33
1	im	126	VAL	CA-CB	-5.71	1.47	1.54
1	iC	118	MET	N-CA	5.71	1.53	1.46
1	iR	10	MET	CA-CB	5.71	1.60	1.53
1	1S	3	VAL	CA-C	5.71	1.59	1.52
1	iS	145	TYR	C-N	5.71	1.42	1.33
1	j0	108	THR	CA-CB	-5.71	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j2	23	TRP	NE1-CE2	-5.71	1.31	1.37
1	j8	153	ILE	CA-CB	-5.71	1.47	1.53
1	km	186	THR	CA-C	5.71	1.60	1.52
1	kP	172	LEU	C-N	5.71	1.41	1.33
1	kV	179	GLN	CA-CB	5.71	1.62	1.53
1	la	109	SER	C-O	-5.71	1.16	1.23
1	lj	131	LYS	CA-CB	5.71	1.62	1.53
1	lR	84	HIS	ND1-CE1	5.71	1.38	1.32
1	2h	25	LYS	CA-C	5.71	1.60	1.52
1	2w	62	HIS	C-N	5.71	1.41	1.33
1	2A	180	GLU	C-N	5.71	1.41	1.33
1	3t	7	GLN	CA-C	5.71	1.60	1.52
1	3H	84	HIS	CG-CD2	5.71	1.42	1.35
1	3P	18	ARG	CD-NE	5.71	1.54	1.46
1	4b	141	ILE	C-N	5.71	1.41	1.33
1	4q	144	MET	C-N	5.71	1.41	1.33
1	4S	83	LEU	N-CA	-5.71	1.39	1.46
1	58	84	HIS	ND1-CE1	5.71	1.38	1.32
1	5Y	73	ILE	CA-C	5.71	1.59	1.52
1	6a	70	LYS	CA-C	5.71	1.60	1.52
1	6e	74	ASN	N-CA	-5.71	1.39	1.46
1	77	186	THR	N-CA	-5.71	1.39	1.46
1	79	17	PRO	CA-C	5.71	1.61	1.52
1	7f	128	GLU	CA-CB	5.71	1.62	1.53
1	8x	193	ASN	CA-C	5.71	1.60	1.52
1	8C	177	ALA	CA-CB	5.71	1.63	1.53
1	8H	4	GLN	CA-C	5.71	1.59	1.52
1	8Q	162	ARG	C-N	5.71	1.42	1.33
1	8V	164	TYR	N-CA	-5.71	1.39	1.46
1	92	107	THR	C-O	-5.71	1.17	1.24
1	96	90	PRO	C-N	5.71	1.36	1.33
1	9K	226	HIS	ND1-CE1	5.71	1.38	1.32
1	9L	151	LEU	CA-CB	5.71	1.62	1.53
1	9Q	106	GLY	C-N	-5.71	1.26	1.33
1	9W	117	TRP	NE1-CE2	-5.71	1.31	1.37
1	a1	112	GLN	CA-C	-5.71	1.45	1.52
1	a4	8	GLY	N-CA	-5.71	1.37	1.45
1	ah	169	TYR	CZ-OH	5.71	1.50	1.38
1	am	17	PRO	CA-C	-5.71	1.44	1.52
1	13	31	ALA	CA-CB	5.71	1.62	1.53
1	aI	31	ALA	CA-C	5.71	1.60	1.52
1	aL	228	ALA	N-CA	5.71	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aZ	52	LEU	N-CA	5.71	1.53	1.46
1	bs	190	LEU	C-N	5.71	1.41	1.33
1	bY	125	PRO	CA-C	-5.71	1.47	1.53
1	ck	62	HIS	CE1-NE2	-5.71	1.26	1.32
1	co	29	GLU	CA-C	5.71	1.60	1.52
1	1e	209	ALA	CA-C	5.71	1.60	1.52
1	cW	42	ALA	N-CA	-5.71	1.39	1.46
1	d3	1	PRO	CA-CB	5.71	1.64	1.53
1	1i	186	THR	CA-C	-5.71	1.44	1.52
1	dc	174	ALA	C-O	-5.71	1.17	1.24
1	dt	69	LEU	CA-CB	5.71	1.62	1.53
1	dH	12	HIS	ND1-CE1	5.71	1.38	1.32
1	dR	117	TRP	N-CA	5.71	1.53	1.46
1	eh	32	PHE	CA-CB	5.71	1.60	1.52
1	ep	37	ILE	CA-C	5.71	1.58	1.52
1	ex	97	ARG	CD-NE	5.71	1.54	1.46
1	eL	99	PRO	CA-CB	5.71	1.60	1.53
1	f0	213	GLU	CA-C	-5.71	1.45	1.52
1	fc	52	LEU	CA-CB	5.71	1.62	1.53
1	fh	78	ALA	N-CA	-5.71	1.39	1.46
1	fw	49	PRO	N-CA	-5.71	1.40	1.47
1	1y	20	LEU	N-CA	-5.71	1.39	1.46
1	fM	163	ASP	CA-CB	5.71	1.62	1.53
1	fT	134	ILE	N-CA	-5.71	1.39	1.46
1	i	181	VAL	C-N	5.71	1.41	1.33
1	gd	44	SER	C-N	5.71	1.41	1.33
1	gr	166	ASP	CA-C	5.71	1.60	1.52
1	gT	178	SER	CA-CB	5.71	1.62	1.53
1	ha	62	HIS	CE1-NE2	5.71	1.38	1.32
1	1M	56	LEU	N-CA	5.71	1.53	1.46
1	im	162	ARG	N-CA	-5.71	1.39	1.46
1	iv	15	ILE	CA-CB	5.71	1.62	1.53
1	1Q	209	ALA	CA-C	5.71	1.59	1.52
1	1U	147	PRO	CA-C	5.71	1.57	1.52
1	jo	192	GLN	CA-CB	5.71	1.63	1.53
1	kB	82	ARG	CA-CB	5.71	1.62	1.53
1	2A	131	LYS	N-CA	5.71	1.53	1.46
1	3q	216	THR	CA-C	5.71	1.60	1.52
1	3H	168	PHE	C-N	5.71	1.41	1.33
1	42	100	ARG	CZ-NH1	-5.71	1.24	1.32
1	4b	226	HIS	C-N	5.71	1.40	1.33
1	5c	9	GLN	C-N	5.71	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5y	168	PHE	C-O	-5.71	1.17	1.24
1	5D	154	ARG	C-N	5.71	1.40	1.33
1	5S	23	TRP	CZ2-CH2	5.71	1.48	1.37
1	5U	203	LYS	N-CA	-5.71	1.39	1.46
1	6Q	45	GLU	C-N	5.71	1.41	1.33
1	7r	110	THR	C-N	5.71	1.41	1.33
1	8R	151	LEU	CA-CB	5.71	1.63	1.53
1	ay	3	VAL	CA-C	5.71	1.59	1.52
1	be	23	TRP	N-CA	5.71	1.53	1.46
1	bg	168	PHE	CG-CD2	5.71	1.50	1.38
1	1a	125	PRO	CA-C	-5.71	1.44	1.52
1	cp	60	GLY	N-CA	5.71	1.52	1.45
1	cG	82	ARG	CA-C	-5.71	1.45	1.52
1	cZ	11	VAL	CA-CB	5.71	1.61	1.54
1	d3	153	ILE	N-CA	-5.71	1.40	1.46
1	dd	73	ILE	N-CA	-5.71	1.39	1.46
1	e0	143	ARG	C-N	5.71	1.41	1.33
1	es	113	GLU	C-N	5.71	1.41	1.33
1	ez	11	VAL	CA-C	-5.71	1.45	1.52
1	eH	162	ARG	CA-CB	5.71	1.62	1.53
1	eL	82	ARG	CZ-NH1	-5.71	1.24	1.32
1	p	60	GLY	CA-C	-5.71	1.43	1.51
1	gc	188	THR	N-CA	5.71	1.53	1.46
1	gh	92	GLU	C-N	-5.71	1.28	1.33
1	gk	5	ASN	CG-ND2	5.71	1.45	1.33
1	gH	208	ALA	C-N	5.71	1.41	1.33
1	gK	103	ASP	CA-CB	5.71	1.62	1.53
1	gL	94	GLY	CA-C	5.71	1.60	1.51
1	hf	28	GLU	C-N	5.71	1.41	1.33
1	hj	82	ARG	CD-NE	5.71	1.54	1.46
1	hn	22	ALA	CA-CB	5.71	1.62	1.53
1	i9	82	ARG	CD-NE	5.71	1.54	1.46
1	ii	77	ALA	N-CA	-5.71	1.39	1.46
1	in	81	ASP	CA-CB	5.71	1.62	1.53
1	iu	33	SER	CA-CB	5.71	1.61	1.53
1	j8	154	ARG	N-CA	-5.71	1.39	1.46
1	jG	100	ARG	CD-NE	5.71	1.54	1.46
1	jI	83	LEU	CA-C	-5.71	1.45	1.52
1	jS	137	GLY	N-CA	5.71	1.52	1.45
1	jT	144	MET	CA-CB	5.71	1.62	1.53
1	jW	178	SER	N-CA	5.71	1.53	1.45
1	k5	16	SER	CA-C	5.71	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kq	51	ASP	C-O	5.71	1.30	1.24
1	kr	14	ALA	C-N	5.71	1.40	1.33
1	kt	131	LYS	CA-CB	5.71	1.62	1.53
1	kA	144	MET	C-N	5.71	1.41	1.33
1	kF	190	LEU	CA-CB	5.71	1.62	1.53
1	l2	229	ARG	CZ-NH2	-5.71	1.26	1.33
1	l9	4	GLN	CA-CB	5.71	1.63	1.54
1	lp	205	LEU	CA-C	-5.71	1.45	1.52
1	lr	54	THR	C-O	-5.71	1.17	1.24
1	lH	191	VAL	CA-CB	5.71	1.62	1.54
1	2A	63	GLN	CA-CB	5.71	1.62	1.53
1	2R	193	ASN	C-N	5.71	1.41	1.33
1	3N	93	PRO	N-CA	-5.71	1.40	1.47
1	44	192	GLN	CA-CB	5.71	1.62	1.53
1	4B	59	VAL	C-O	5.71	1.29	1.24
1	4Z	137	GLY	CA-C	5.71	1.58	1.52
1	51	98	GLU	CA-C	5.71	1.60	1.52
1	5z	141	ILE	N-CA	-5.71	1.39	1.46
1	5C	130	TYR	CA-C	5.71	1.60	1.52
1	5Y	10	MET	C-N	5.71	1.40	1.33
1	6K	138	LEU	CA-C	5.71	1.60	1.52
1	6P	16	SER	CA-CB	5.71	1.61	1.53
1	77	50	GLN	N-CA	-5.71	1.39	1.46
1	7s	173	ARG	CD-NE	5.71	1.54	1.46
1	7A	141	ILE	CA-C	-5.71	1.45	1.52
1	8j	187	GLU	C-O	-5.71	1.17	1.24
1	9t	51	ASP	CA-CB	5.71	1.62	1.53
1	9y	116	GLY	CA-C	5.71	1.58	1.52
1	ap	139	ASN	CA-CB	5.71	1.62	1.53
1	ba	221	VAL	CA-CB	-5.71	1.47	1.54
1	bl	212	GLU	CA-CB	5.71	1.62	1.53
1	19	97	ARG	N-CA	-5.71	1.38	1.46
1	bI	68	MET	N-CA	5.71	1.53	1.46
1	cq	5	ASN	C-N	5.71	1.41	1.33
1	cI	153	ILE	C-N	5.71	1.41	1.33
1	cI	211	LEU	CA-C	-5.71	1.45	1.52
1	1j	103	ASP	CA-C	5.71	1.60	1.52
1	dt	19	THR	C-N	5.71	1.41	1.33
1	1m	161	PHE	CA-CB	-5.71	1.44	1.53
1	eh	141	ILE	CA-CB	-5.71	1.47	1.54
1	ek	135	ILE	N-CA	5.71	1.53	1.46
1	eK	80	TRP	NE1-CE2	5.71	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f2	190	LEU	C-O	-5.71	1.17	1.24
1	f2	218	CYS	CA-CB	5.71	1.63	1.53
1	f3	18	ARG	CD-NE	5.71	1.54	1.46
1	fd	189	LEU	CB-CG	5.71	1.64	1.53
1	fA	64	ALA	CA-C	5.71	1.59	1.52
1	1y	129	ILE	CA-CB	5.71	1.61	1.54
1	fE	79	GLU	CA-CB	5.71	1.62	1.53
1	fP	70	LYS	N-CA	-5.71	1.39	1.46
1	fX	135	ILE	C-O	5.71	1.30	1.24
1	r	225	GLY	N-CA	5.71	1.54	1.45
1	x	28	GLU	CA-C	5.71	1.60	1.52
1	M	145	TYR	CA-CB	-5.71	1.44	1.53
1	T	82	ARG	CD-NE	5.71	1.54	1.46
1	7	30	LYS	C-N	5.71	1.41	1.33
1	gy	63	GLN	CA-C	5.71	1.60	1.52
1	gV	63	GLN	N-CA	-5.71	1.38	1.46
1	h8	96	MET	C-N	5.71	1.41	1.33
1	ic	30	LYS	CA-C	-5.71	1.45	1.52
1	iq	160	PRO	CA-C	5.71	1.60	1.52
1	is	163	ASP	C-N	5.71	1.41	1.33
1	iE	227	LYS	C-N	5.71	1.41	1.33
1	iR	188	THR	N-CA	-5.71	1.38	1.46
1	iT	26	VAL	N-CA	-5.71	1.39	1.46
1	li	19	THR	N-CA	-5.71	1.39	1.46
1	3w	221	VAL	C-O	5.71	1.30	1.24
1	3X	16	SER	CA-C	-5.71	1.46	1.52
1	5v	84	HIS	CA-CB	5.71	1.61	1.53
1	64	161	PHE	CA-C	5.71	1.60	1.52
1	6j	167	ARG	C-N	5.71	1.41	1.33
1	6M	1	PRO	N-CD	5.71	1.55	1.47
1	7z	227	LYS	CA-C	5.71	1.60	1.52
1	8c	221	VAL	CA-C	5.71	1.59	1.52
1	8N	12	HIS	CB-CG	5.71	1.58	1.50
1	8P	167	ARG	CD-NE	5.71	1.54	1.46
1	8T	13	GLN	CA-C	5.71	1.59	1.52
1	97	53	ASN	CA-C	5.71	1.60	1.52
1	9y	221	VAL	CA-C	-5.71	1.46	1.52
1	ad	130	TYR	CG-CD2	5.71	1.51	1.39
1	b3	56	LEU	C-N	5.71	1.41	1.33
1	b8	189	LEU	CA-C	-5.71	1.44	1.52
1	bm	170	LYS	CA-C	-5.71	1.45	1.52
1	bw	61	GLY	C-N	5.71	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bE	200	THR	C-O	-5.71	1.17	1.24
1	bW	53	ASN	CA-C	5.71	1.60	1.52
1	ch	42	ALA	C-N	5.71	1.42	1.33
1	cw	195	ASN	CA-CB	5.71	1.62	1.53
1	1h	220	GLY	CA-C	-5.71	1.43	1.51
1	1i	56	LEU	CA-C	-5.71	1.45	1.52
1	1o	115	ILE	CA-CB	-5.71	1.47	1.54
1	e7	1	PRO	N-CD	5.71	1.55	1.47
1	eA	171	THR	C-O	-5.71	1.16	1.24
1	c	29	GLU	CA-CB	5.71	1.62	1.53
1	n	84	HIS	CE1-NE2	5.71	1.38	1.32
1	3	72	THR	N-CA	5.71	1.53	1.46
1	gf	132	ARG	CD-NE	5.71	1.54	1.46
1	gt	47	ALA	CA-CB	5.71	1.62	1.53
1	gH	217	ALA	N-CA	-5.71	1.38	1.46
1	gR	166	ASP	CA-C	-5.71	1.45	1.52
1	gS	95	GLN	C-N	5.71	1.41	1.33
1	hF	13	GLN	N-CA	-5.71	1.39	1.46
1	ik	224	PRO	N-CD	-5.71	1.39	1.47
1	in	18	ARG	CD-NE	5.71	1.54	1.46
1	1S	42	ALA	C-N	5.71	1.41	1.34
1	ja	166	ASP	N-CA	-5.71	1.39	1.46
1	ji	11	VAL	C-N	5.71	1.41	1.33
1	kj	200	THR	CB-OG1	-5.71	1.34	1.43
1	kX	138	LEU	N-CA	-5.71	1.39	1.46
1	lv	64	ALA	CA-C	5.71	1.60	1.52
1	lI	172	LEU	CA-C	5.71	1.60	1.52
1	2f	40	PHE	N-CA	-5.71	1.39	1.46
1	2B	84	HIS	ND1-CE1	5.71	1.38	1.32
1	2Z	218	CYS	C-N	5.71	1.42	1.33
1	39	59	VAL	C-O	-5.71	1.18	1.24
1	3k	103	ASP	CA-CB	5.71	1.62	1.53
1	3o	109	SER	C-N	5.71	1.41	1.33
1	3r	84	HIS	N-CA	-5.71	1.41	1.46
1	3x	56	LEU	CA-CB	5.71	1.62	1.53
1	3G	160	PRO	CA-CB	5.71	1.60	1.53
1	48	40	PHE	CA-CB	5.71	1.62	1.53
1	4R	33	SER	CA-CB	5.71	1.61	1.53
1	5a	54	THR	CA-C	-5.71	1.45	1.52
1	5g	90	PRO	C-N	-5.71	1.27	1.33
1	5w	52	LEU	CA-CB	5.71	1.62	1.53
1	6a	124	ILE	CA-C	-5.71	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6g	8	GLY	N-CA	5.71	1.53	1.45
1	6z	158	LYS	CA-CB	5.71	1.61	1.53
1	6Q	155	GLN	CA-C	-5.71	1.45	1.52
1	7H	34	PRO	CA-C	5.71	1.60	1.52
1	7R	45	GLU	CA-CB	5.71	1.61	1.53
1	87	226	HIS	ND1-CE1	5.71	1.38	1.32
1	8A	113	GLU	C-N	5.71	1.41	1.33
1	9c	37	ILE	CA-CB	5.71	1.57	1.53
1	9m	107	THR	N-CA	5.71	1.53	1.45
1	9m	133	TRP	NE1-CE2	-5.71	1.31	1.37
1	Z	120	HIS	ND1-CE1	5.71	1.38	1.32
1	aa	150	ILE	CA-C	-5.71	1.44	1.52
1	ae	86	VAL	CA-C	-5.71	1.46	1.52
1	ap	84	HIS	ND1-CE1	5.71	1.38	1.32
1	aY	178	SER	CA-CB	5.71	1.62	1.53
1	bf	162	ARG	CD-NE	5.71	1.54	1.46
1	bw	139	ASN	CA-CB	5.71	1.62	1.53
1	bU	146	SER	CA-C	5.71	1.58	1.52
1	c5	72	THR	N-CA	5.71	1.53	1.46
1	ce	120	HIS	CE1-NE2	5.71	1.38	1.32
1	1d	76	GLU	C-N	5.71	1.40	1.33
1	ct	143	ARG	CD-NE	5.71	1.54	1.46
1	d1	4	GLN	CA-C	5.71	1.59	1.52
1	1k	79	GLU	C-N	5.71	1.41	1.33
1	do	134	ILE	CA-C	-5.71	1.45	1.52
1	dL	159	GLU	CA-C	5.71	1.58	1.52
1	e0	82	ARG	CD-NE	5.71	1.54	1.46
1	e8	22	ALA	CA-C	5.71	1.60	1.52
1	e8	137	GLY	C-O	-5.71	1.16	1.23
1	ec	120	HIS	CA-CB	5.71	1.62	1.53
1	ev	226	HIS	CD2-NE2	5.71	1.44	1.37
1	ew	6	LEU	CA-CB	5.71	1.61	1.53
1	eO	112	GLN	CA-C	-5.71	1.45	1.52
1	1u	54	THR	CA-CB	-5.71	1.44	1.53
1	f2	121	ASN	CA-C	5.71	1.57	1.52
1	f9	21	ASN	N-CA	5.71	1.53	1.46
1	fm	29	GLU	CA-C	-5.71	1.46	1.52
1	ft	24	VAL	C-N	5.71	1.41	1.33
1	fF	28	GLU	C-N	5.71	1.43	1.33
1	fV	167	ARG	N-CA	5.71	1.53	1.46
1	1A	87	HIS	CA-CB	5.71	1.63	1.53
1	1A	93	PRO	CA-CB	-5.71	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	173	ARG	CA-CB	5.71	1.63	1.53
1	g3	199	LYS	CA-C	5.71	1.60	1.52
1	g6	196	PRO	C-N	5.71	1.41	1.33
1	d	177	ALA	C-N	5.71	1.40	1.33
1	o	2	ILE	CB-CG1	5.71	1.64	1.53
1	L	80	TRP	C-N	5.71	1.41	1.34
1	V	54	THR	CA-C	-5.71	1.45	1.52
1	ga	40	PHE	C-N	5.71	1.41	1.34
1	gm	188	THR	N-CA	5.71	1.53	1.46
1	gT	10	MET	CA-C	5.71	1.60	1.52
1	hj	201	ILE	CA-CB	5.71	1.61	1.54
1	hm	103	ASP	C-N	5.71	1.40	1.33
1	hq	196	PRO	N-CA	5.71	1.54	1.47
1	hs	171	THR	N-CA	5.71	1.53	1.46
1	hE	131	LYS	CA-CB	5.71	1.62	1.53
1	hJ	40	PHE	N-CA	-5.71	1.39	1.46
1	hK	224	PRO	CA-C	5.71	1.59	1.52
1	i2	226	HIS	CB-CG	5.71	1.58	1.50
1	i3	161	PHE	N-CA	-5.71	1.39	1.46
1	if	203	LYS	C-N	5.71	1.41	1.34
1	ix	134	ILE	CA-C	5.71	1.59	1.52
1	iK	189	LEU	C-N	5.71	1.41	1.33
1	j1	188	THR	CA-C	-5.71	1.48	1.52
1	1T	100	ARG	N-CA	5.71	1.53	1.45
1	1V	117	TRP	NE1-CE2	-5.71	1.31	1.37
1	jx	91	ILE	CA-CB	-5.71	1.47	1.54
1	jC	114	GLN	C-N	5.71	1.41	1.33
1	21	37	ILE	N-CA	-5.71	1.40	1.46
1	23	27	VAL	N-CA	5.71	1.53	1.46
1	kH	70	LYS	C-N	5.71	1.41	1.33
1	kH	137	GLY	C-N	5.71	1.41	1.33
1	kI	103	ASP	CA-CB	5.71	1.62	1.53
1	kT	16	SER	CA-CB	5.71	1.61	1.53
1	kX	103	ASP	C-N	5.71	1.41	1.33
1	l2	132	ARG	CD-NE	5.71	1.54	1.46
1	lg	57	ASN	C-N	5.71	1.41	1.33
1	lj	181	VAL	CA-CB	5.71	1.61	1.54
1	lP	34	PRO	CA-CB	-5.71	1.44	1.53
1	2i	183	ASN	CA-CB	5.71	1.62	1.53
1	2C	85	PRO	C-N	5.71	1.40	1.33
1	32	47	ALA	C-N	5.71	1.43	1.33
1	37	134	ILE	CA-C	5.71	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3e	30	LYS	C-N	5.71	1.41	1.33
1	3w	139	ASN	N-CA	5.71	1.53	1.46
1	3M	137	GLY	CA-C	-5.71	1.45	1.52
1	3U	62	HIS	CA-CB	5.71	1.62	1.53
1	3W	173	ARG	CD-NE	5.71	1.54	1.46
1	48	191	VAL	CA-C	5.71	1.60	1.52
1	4k	68	MET	CA-CB	5.71	1.62	1.53
1	4n	92	GLU	CA-C	5.71	1.59	1.52
1	4o	27	VAL	C-O	5.71	1.30	1.24
1	4s	227	LYS	N-CA	-5.71	1.39	1.46
1	4Y	69	LEU	CA-CB	5.71	1.62	1.53
1	50	134	ILE	CA-CB	-5.71	1.47	1.54
1	5a	131	LYS	CA-C	5.71	1.60	1.52
1	5h	87	HIS	ND1-CE1	5.71	1.38	1.32
1	5i	133	TRP	CA-CB	5.71	1.62	1.53
1	5j	167	ARG	C-N	5.71	1.41	1.33
1	5F	39	MET	N-CA	5.71	1.53	1.46
1	71	180	GLU	CA-CB	5.71	1.62	1.53
1	7G	120	HIS	ND1-CE1	5.71	1.38	1.32
1	7H	106	GLY	CA-C	-5.71	1.43	1.51
1	8i	79	GLU	CA-CB	5.71	1.62	1.53
1	8u	124	ILE	N-CA	5.71	1.50	1.46
1	8D	12	HIS	CE1-NE2	5.71	1.38	1.32
1	8Y	211	LEU	CA-CB	5.71	1.62	1.53
1	98	87	HIS	CD2-NE2	5.71	1.44	1.37
1	9q	50	GLN	CA-CB	5.71	1.62	1.53
1	9q	141	ILE	CA-C	-5.71	1.45	1.52
1	9N	180	GLU	N-CA	-5.71	1.39	1.46
1	Y	87	HIS	CE1-NE2	5.71	1.38	1.32
1	aa	113	GLU	CA-CB	5.71	1.62	1.53
1	ai	61	GLY	CA-C	5.71	1.59	1.51
1	11	116	GLY	N-CA	5.71	1.53	1.45
1	aq	170	LYS	C-N	5.71	1.41	1.33
1	ar	132	ARG	C-N	5.71	1.41	1.33
1	13	73	ILE	CA-CB	-5.71	1.47	1.54
1	bT	26	VAL	CA-C	5.71	1.59	1.52
1	bV	125	PRO	CA-CB	5.71	1.57	1.53
1	c8	131	LYS	C-O	-5.71	1.17	1.24
1	cl	12	HIS	CD2-NE2	5.71	1.44	1.37
1	cs	191	VAL	N-CA	-5.71	1.39	1.46
1	cU	208	ALA	CA-C	5.71	1.60	1.53
1	dQ	205	LEU	C-N	5.71	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dS	97	ARG	CA-C	-5.71	1.45	1.52
1	e5	211	LEU	C-O	-5.71	1.17	1.24
1	e9	117	TRP	CA-C	5.71	1.60	1.52
1	eb	157	PRO	N-CA	-5.71	1.40	1.47
1	eT	154	ARG	CD-NE	5.71	1.54	1.46
1	eY	16	SER	CA-C	-5.71	1.47	1.53
1	1u	192	GLN	C-N	5.71	1.41	1.33
1	f0	82	ARG	N-CA	-5.71	1.39	1.46
1	fi	12	HIS	CG-ND1	5.71	1.44	1.38
1	1B	216	THR	CA-C	5.71	1.60	1.52
1	l	184	TRP	C-N	5.71	1.41	1.33
1	gm	213	GLU	CA-CB	5.71	1.62	1.53
1	h1	164	TYR	CA-C	-5.71	1.45	1.52
1	hs	6	LEU	CA-C	-5.71	1.44	1.52
1	1K	34	PRO	N-CD	5.71	1.55	1.47
1	i6	100	ARG	CD-NE	5.71	1.54	1.46
1	jD	147	PRO	N-CD	-5.71	1.39	1.47
1	1Y	12	HIS	CG-CD2	5.71	1.42	1.35
1	20	226	HIS	ND1-CE1	5.71	1.38	1.32
1	kH	90	PRO	CA-CB	5.71	1.61	1.53
1	kK	226	HIS	ND1-CE1	5.71	1.38	1.32
1	kO	175	GLU	N-CA	-5.71	1.38	1.46
1	lf	84	HIS	CA-CB	5.71	1.61	1.53
1	lC	146	SER	CA-C	5.71	1.59	1.53
1	2A	29	GLU	CA-C	-5.71	1.45	1.52
1	2E	118	MET	N-CA	5.71	1.53	1.46
1	2F	46	GLY	N-CA	5.71	1.53	1.45
1	3w	104	ILE	C-N	5.71	1.41	1.33
1	4k	23	TRP	CD2-CE2	5.71	1.51	1.41
1	4E	52	LEU	CA-C	5.71	1.60	1.52
1	4R	143	ARG	C-N	5.71	1.41	1.33
1	6j	48	THR	CA-C	5.71	1.60	1.52
1	6z	92	GLU	CA-C	5.71	1.60	1.53
1	6S	205	LEU	C-N	5.71	1.42	1.33
1	8s	205	LEU	C-O	5.71	1.31	1.24
1	8K	133	TRP	NE1-CE2	5.71	1.43	1.37
1	9x	67	GLN	N-CA	-5.71	1.39	1.46
1	9H	108	THR	C-N	5.71	1.41	1.33
1	aE	198	CYS	CA-CB	5.71	1.62	1.53
1	aK	53	ASN	C-N	5.71	1.41	1.34
1	aT	11	VAL	CA-CB	-5.71	1.47	1.54
1	ce	178	SER	C-N	5.71	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cK	156	GLY	CA-C	-5.71	1.43	1.51
1	dn	160	PRO	CA-C	5.71	1.60	1.52
1	dD	183	ASN	C-O	-5.71	1.17	1.24
1	dI	62	HIS	CE1-NE2	5.71	1.38	1.32
1	eL	166	ASP	N-CA	-5.71	1.39	1.46
1	eT	82	ARG	CD-NE	5.71	1.54	1.46
1	f1	230	VAL	N-CA	-5.71	1.39	1.46
1	fd	18	ARG	CA-C	-5.71	1.45	1.52
1	ff	76	GLU	C-N	5.71	1.41	1.33
1	fm	81	ASP	C-N	5.71	1.41	1.33
1	fI	60	GLY	CA-C	-5.71	1.43	1.51
1	2	205	LEU	CA-CB	5.71	1.63	1.53
1	Q	120	HIS	CG-ND1	5.71	1.44	1.38
1	gJ	162	ARG	CD-NE	5.70	1.54	1.46
1	ha	173	ARG	CD-NE	5.70	1.54	1.46
1	hc	47	ALA	CA-CB	5.70	1.62	1.53
1	hi	56	LEU	CA-CB	5.70	1.62	1.53
1	hk	11	VAL	N-CA	-5.70	1.39	1.46
1	ih	169	TYR	CA-C	5.70	1.60	1.52
1	iX	181	VAL	CA-C	-5.70	1.45	1.52
1	j9	203	LYS	CA-CB	5.70	1.62	1.53
1	jg	144	MET	N-CA	-5.70	1.39	1.46
1	20	154	ARG	C-N	5.70	1.41	1.33
1	ki	87	HIS	CG-ND1	5.70	1.44	1.38
1	kx	209	ALA	N-CA	-5.70	1.39	1.46
1	kL	213	GLU	CA-C	5.70	1.60	1.52
1	l7	154	ARG	CD-NE	5.70	1.54	1.46
1	lr	82	ARG	CD-NE	5.70	1.54	1.46
1	2l	45	GLU	C-N	5.70	1.41	1.33
1	2t	213	GLU	C-N	-5.70	1.26	1.33
1	2H	115	ILE	N-CA	-5.70	1.39	1.46
1	3K	12	HIS	CG-CD2	5.70	1.42	1.35
1	3Z	204	ALA	C-N	5.70	1.41	1.33
1	43	161	PHE	CA-CB	5.70	1.63	1.53
1	4S	55	MET	N-CA	-5.70	1.39	1.46
1	4V	64	ALA	CA-C	5.70	1.60	1.52
1	4X	184	TRP	CA-C	5.70	1.60	1.52
1	52	95	GLN	C-N	5.70	1.41	1.33
1	5f	226	HIS	N-CA	5.70	1.53	1.46
1	6m	179	GLN	C-N	5.70	1.41	1.33
1	6s	121	ASN	CA-C	5.70	1.57	1.52
1	6E	143	ARG	CD-NE	5.70	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6P	217	ALA	N-CA	-5.70	1.39	1.46
1	6V	87	HIS	ND1-CE1	5.70	1.38	1.32
1	7B	108	THR	C-N	5.70	1.41	1.33
1	82	225	GLY	C-O	-5.70	1.17	1.23
1	84	16	SER	CA-CB	5.70	1.62	1.53
1	8h	165	VAL	CA-C	5.70	1.60	1.52
1	8H	105	ALA	C-N	5.70	1.41	1.33
1	8I	68	MET	CA-C	5.70	1.60	1.52
1	92	227	LYS	CA-CB	5.70	1.62	1.53
1	97	29	GLU	N-CA	-5.70	1.38	1.46
1	9v	1	PRO	N-CD	5.70	1.55	1.47
1	9z	175	GLU	C-N	5.70	1.41	1.33
1	9Q	156	GLY	C-N	-5.70	1.26	1.33
1	9V	169	TYR	C-N	5.70	1.41	1.33
1	b9	68	MET	CA-C	5.70	1.60	1.52
1	bd	162	ARG	CA-C	5.70	1.60	1.52
1	bd	192	GLN	N-CA	-5.70	1.38	1.46
1	br	200	THR	CA-CB	5.70	1.62	1.53
1	bI	120	HIS	CA-CB	5.70	1.62	1.53
1	cg	59	VAL	CA-CB	5.70	1.60	1.54
1	cU	224	PRO	N-CA	5.70	1.53	1.47
1	dt	206	GLY	CA-C	5.70	1.60	1.51
1	e2	100	ARG	N-CA	-5.70	1.38	1.45
1	ed	126	VAL	C-N	5.70	1.41	1.33
1	es	92	GLU	C-N	5.70	1.40	1.33
1	ex	31	ALA	C-N	5.70	1.41	1.33
1	ez	145	TYR	C-O	-5.70	1.15	1.23
1	eC	87	HIS	CB-CG	5.70	1.58	1.50
1	eR	53	ASN	CA-C	5.70	1.60	1.52
1	g1	225	GLY	C-N	5.70	1.41	1.33
1	g2	3	VAL	CA-C	5.70	1.59	1.52
1	n	42	ALA	N-CA	-5.70	1.39	1.46
1	w	27	VAL	C-N	5.70	1.41	1.33
1	P	36	VAL	CA-C	-5.70	1.45	1.52
1	Q	138	LEU	N-CA	-5.70	1.39	1.46
1	1F	92	GLU	N-CA	5.70	1.52	1.46
1	hm	50	GLN	C-O	-5.70	1.17	1.24
1	ib	114	GLN	N-CA	5.70	1.53	1.46
1	iR	153	ILE	C-O	-5.70	1.17	1.24
1	iU	58	THR	C-N	5.70	1.40	1.33
1	jw	166	ASP	N-CA	5.70	1.53	1.46
1	jA	161	PHE	CA-C	5.70	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jT	82	ARG	CA-CB	5.70	1.62	1.53
1	kh	77	ALA	CA-CB	5.70	1.62	1.53
1	23	82	ARG	CZ-NH2	-5.70	1.26	1.33
1	kL	230	VAL	C-N	5.70	1.41	1.33
1	lA	153	ILE	N-CA	5.70	1.52	1.46
1	lH	170	LYS	N-CA	-5.70	1.39	1.46
1	2a	93	PRO	N-CA	5.70	1.54	1.47
1	lQ	43	LEU	C-N	5.70	1.41	1.33
1	2G	226	HIS	ND1-CE1	5.70	1.38	1.32
1	2N	219	GLN	CA-C	5.70	1.60	1.52
1	2P	10	MET	CA-CB	5.70	1.62	1.53
1	2Q	215	MET	C-N	5.70	1.41	1.33
1	3l	225	GLY	N-CA	5.70	1.49	1.44
1	3n	183	ASN	CA-C	5.70	1.60	1.52
1	4m	117	TRP	NE1-CE2	-5.70	1.31	1.37
1	4o	77	ALA	CA-CB	5.70	1.62	1.53
1	4W	114	GLN	C-N	5.70	1.41	1.33
1	5n	229	ARG	CA-C	-5.70	1.44	1.52
1	5V	186	THR	CA-C	5.70	1.60	1.52
1	6n	134	ILE	N-CA	-5.70	1.39	1.46
1	6D	113	GLU	N-CA	5.70	1.53	1.46
1	6I	32	PHE	N-CA	-5.70	1.39	1.46
1	6K	3	VAL	CA-CB	5.70	1.61	1.54
1	78	145	TYR	C-N	5.70	1.41	1.33
1	7c	130	TYR	CA-CB	5.70	1.62	1.53
1	7l	213	GLU	C-N	5.70	1.41	1.33
1	8l	88	ALA	CA-C	5.70	1.60	1.52
1	8z	126	VAL	CA-CB	5.70	1.60	1.54
1	8O	14	ALA	CA-C	5.70	1.60	1.52
1	8W	25	LYS	N-CA	-5.70	1.39	1.46
1	9Y	61	GLY	N-CA	5.70	1.50	1.44
1	aj	102	SER	CA-CB	5.70	1.62	1.53
1	aM	226	HIS	CB-CG	5.70	1.58	1.50
1	cO	57	ASN	C-N	5.70	1.41	1.33
1	dv	13	GLN	CA-C	-5.70	1.45	1.52
1	f4	148	THR	CA-C	-5.70	1.45	1.52
1	f7	154	ARG	N-CA	-5.70	1.38	1.46
1	f9	120	HIS	CG-CD2	5.70	1.42	1.35
1	fz	64	ALA	CA-C	-5.70	1.45	1.52
1	fH	164	TYR	N-CA	5.70	1.53	1.46
1	fT	80	TRP	N-CA	-5.70	1.39	1.46
1	gF	201	ILE	C-N	5.70	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gI	100	ARG	CD-NE	5.70	1.54	1.46
1	gJ	85	PRO	CA-C	5.70	1.60	1.52
1	1I	95	GLN	C-N	5.70	1.41	1.33
1	hl	119	THR	CA-CB	5.70	1.62	1.53
1	hr	230	VAL	CA-CB	-5.70	1.47	1.54
1	ht	104	ILE	CA-CB	5.70	1.61	1.54
1	is	192	GLN	N-CA	-5.70	1.39	1.46
1	1Z	201	ILE	CA-C	5.70	1.60	1.52
1	la	211	LEU	C-N	5.70	1.41	1.34
1	lm	38	PRO	CA-CB	-5.70	1.45	1.53
1	lz	136	LEU	CA-CB	5.70	1.62	1.53
1	2X	2	ILE	N-CA	-5.70	1.39	1.46
1	3q	149	SER	CA-C	-5.70	1.45	1.52
1	3G	130	TYR	C-N	5.70	1.41	1.33
1	3O	135	ILE	CA-C	5.70	1.60	1.52
1	3R	140	LYS	CA-CB	5.70	1.62	1.53
1	47	146	SER	CA-CB	5.70	1.62	1.53
1	49	23	TRP	C-N	5.70	1.41	1.33
1	49	26	VAL	C-N	5.70	1.41	1.33
1	4k	166	ASP	CA-CB	5.70	1.62	1.53
1	4r	150	ILE	N-CA	-5.70	1.38	1.46
1	4T	168	PHE	CA-CB	5.70	1.62	1.53
1	50	145	TYR	CA-C	5.70	1.60	1.52
1	5b	12	HIS	CG-ND1	-5.70	1.31	1.38
1	5k	35	GLU	N-CA	-5.70	1.39	1.46
1	5A	64	ALA	N-CA	5.70	1.53	1.46
1	5I	43	LEU	N-CA	-5.70	1.39	1.46
1	64	32	PHE	N-CA	-5.70	1.39	1.46
1	6P	156	GLY	N-CA	5.70	1.52	1.44
1	6T	55	MET	C-N	5.70	1.41	1.33
1	7v	145	TYR	N-CA	-5.70	1.39	1.46
1	7O	76	GLU	C-N	5.70	1.41	1.33
1	7S	90	PRO	C-N	5.70	1.40	1.33
1	7V	133	TRP	NE1-CE2	5.70	1.43	1.37
1	7W	164	TYR	N-CA	-5.70	1.39	1.46
1	8p	23	TRP	C-N	5.70	1.41	1.33
1	96	150	ILE	CA-CB	5.70	1.61	1.54
1	9j	152	ASP	CA-C	-5.70	1.45	1.52
1	9k	138	LEU	CA-CB	5.70	1.62	1.53
1	10	18	ARG	C-N	5.70	1.41	1.33
1	12	186	THR	N-CA	5.70	1.53	1.46
1	az	173	ARG	CA-CB	5.70	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aB	181	VAL	C-N	5.70	1.41	1.33
1	ba	147	PRO	C-O	-5.70	1.16	1.24
1	bl	215	MET	CA-C	-5.70	1.45	1.52
1	bq	65	ALA	CA-C	5.70	1.60	1.52
1	bE	73	ILE	CA-CB	-5.70	1.47	1.54
1	bE	112	GLN	N-CA	-5.70	1.39	1.46
1	1b	91	ILE	CA-C	5.70	1.59	1.52
1	c3	173	ARG	CD-NE	5.70	1.54	1.46
1	ci	18	ARG	N-CA	5.70	1.53	1.46
1	1e	174	ALA	CA-CB	5.70	1.62	1.53
1	d2	192	GLN	C-N	5.70	1.41	1.33
1	d9	185	MET	N-CA	5.70	1.53	1.46
1	dY	70	LYS	CA-CB	5.70	1.62	1.53
1	e0	190	LEU	CA-CB	5.70	1.62	1.53
1	em	1	PRO	CA-CB	5.70	1.64	1.53
1	er	51	ASP	CA-CB	5.70	1.62	1.53
1	1s	23	TRP	N-CA	-5.70	1.39	1.46
1	fx	134	ILE	C-N	5.70	1.41	1.33
1	fA	203	LYS	C-N	-5.70	1.26	1.34
1	g5	59	VAL	C-N	5.70	1.41	1.33
1	c	132	ARG	CD-NE	5.70	1.54	1.46
1	i	100	ARG	CD-NE	5.70	1.54	1.46
1	1	29	GLU	N-CA	-5.70	1.38	1.46
1	2	167	ARG	CD-NE	5.70	1.54	1.46
1	w	185	MET	N-CA	-5.70	1.39	1.46
1	V	152	ASP	C-N	5.70	1.40	1.33
1	gy	132	ARG	CD-NE	5.70	1.54	1.46
1	gM	123	PRO	CA-C	-5.70	1.45	1.52
1	h5	125	PRO	C-N	5.70	1.41	1.34
1	hf	143	ARG	CZ-NH2	-5.70	1.26	1.33
1	hD	55	MET	CA-CB	5.70	1.62	1.53
1	hF	154	ARG	CD-NE	5.70	1.54	1.46
1	hL	138	LEU	CA-CB	5.70	1.62	1.53
1	hW	73	ILE	N-CA	5.70	1.53	1.46
1	ib	33	SER	CA-C	5.70	1.58	1.52
1	iC	14	ALA	CA-C	-5.70	1.45	1.52
1	iC	80	TRP	C-O	-5.70	1.17	1.24
1	iD	191	VAL	CA-C	5.70	1.59	1.52
1	iK	186	THR	N-CA	5.70	1.53	1.46
1	jd	100	ARG	CA-CB	5.70	1.62	1.53
1	jh	120	HIS	CA-CB	5.70	1.62	1.53
1	jw	228	ALA	N-CA	-5.70	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kf	165	VAL	N-CA	5.70	1.53	1.46
1	22	131	LYS	N-CA	5.70	1.53	1.46
1	kA	159	GLU	CA-CB	5.70	1.61	1.53
1	kW	67	GLN	CA-CB	5.70	1.62	1.53
1	lA	95	GLN	CA-C	-5.70	1.45	1.53
1	lE	168	PHE	N-CA	5.70	1.53	1.46
1	lG	84	HIS	C-N	-5.70	1.27	1.33
1	2i	182	LYS	C-N	5.70	1.41	1.33
1	2w	63	GLN	C-O	-5.70	1.17	1.24
1	2O	65	ALA	CA-C	5.70	1.60	1.52
1	34	33	SER	N-CA	-5.70	1.40	1.45
1	38	186	THR	CA-CB	-5.70	1.44	1.53
1	3l	120	HIS	CD2-NE2	5.70	1.44	1.37
1	3s	97	ARG	CD-NE	5.70	1.54	1.46
1	3u	91	ILE	N-CA	-5.70	1.39	1.46
1	3B	162	ARG	CA-CB	5.70	1.63	1.53
1	3D	100	ARG	CA-CB	5.70	1.61	1.53
1	4p	230	VAL	C-N	5.70	1.41	1.33
1	57	32	PHE	CA-CB	5.70	1.61	1.53
1	5g	72	THR	N-CA	5.70	1.53	1.46
1	5L	139	ASN	C-N	5.70	1.41	1.33
1	6A	227	LYS	C-N	5.70	1.41	1.33
1	6B	69	LEU	CA-C	5.70	1.60	1.52
1	76	16	SER	CA-C	-5.70	1.47	1.53
1	7r	163	ASP	CA-C	5.70	1.60	1.52
1	85	35	GLU	C-N	5.70	1.41	1.33
1	8j	143	ARG	CA-C	-5.70	1.44	1.52
1	8y	129	ILE	N-CA	5.70	1.53	1.46
1	8D	10	MET	N-CA	5.70	1.53	1.45
1	8E	97	ARG	CD-NE	5.70	1.54	1.46
1	8E	221	VAL	C-N	5.70	1.42	1.33
1	9i	4	GLN	N-CA	-5.70	1.38	1.46
1	9G	186	THR	N-CA	5.70	1.53	1.46
1	9J	41	SER	N-CA	5.70	1.53	1.46
1	aD	27	VAL	CA-CB	-5.70	1.47	1.54
1	16	71	GLU	N-CA	5.70	1.53	1.46
1	be	108	THR	N-CA	-5.70	1.39	1.46
1	be	121	ASN	CA-C	5.70	1.59	1.52
1	bp	68	MET	N-CA	5.70	1.53	1.46
1	bz	35	GLU	CA-CB	5.70	1.62	1.53
1	bK	80	TRP	NE1-CE2	5.70	1.43	1.37
1	cc	206	GLY	C-N	-5.70	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1d	27	VAL	CA-CB	-5.70	1.46	1.54
1	1e	26	VAL	CA-CB	5.70	1.61	1.54
1	cD	95	GLN	CA-C	-5.70	1.45	1.52
1	d2	46	GLY	C-N	5.70	1.41	1.33
1	dg	5	ASN	N-CA	5.70	1.53	1.46
1	dk	184	TRP	CA-C	-5.70	1.45	1.52
1	dn	117	TRP	C-N	5.70	1.41	1.34
1	dB	86	VAL	C-N	5.70	1.41	1.33
1	eb	175	GLU	C-N	5.70	1.42	1.33
1	eD	17	PRO	CA-CB	-5.70	1.45	1.53
1	eJ	230	VAL	CA-CB	-5.70	1.48	1.54
1	f1	220	GLY	C-N	-5.70	1.27	1.33
1	fo	96	MET	C-N	5.70	1.40	1.33
1	1x	206	GLY	C-N	-5.70	1.27	1.34
1	fy	89	GLY	N-CA	5.70	1.52	1.44
1	fK	109	SER	CA-C	-5.70	1.45	1.52
1	fM	169	TYR	CA-C	-5.70	1.45	1.52
1	fM	210	THR	CA-C	-5.70	1.45	1.53
1	fT	167	ARG	CD-NE	5.70	1.54	1.46
1	2	47	ALA	CA-CB	5.70	1.62	1.53
1	T	115	ILE	CA-CB	5.70	1.62	1.54
1	W	70	LYS	CA-C	-5.70	1.45	1.52
1	7	52	LEU	C-N	5.70	1.41	1.33
1	gD	109	SER	N-CA	5.70	1.52	1.45
1	gP	106	GLY	CA-C	-5.70	1.45	1.51
1	h0	229	ARG	C-O	-5.70	1.17	1.24
1	h8	192	GLN	CA-CB	5.70	1.62	1.53
1	hp	41	SER	C-N	5.70	1.41	1.33
1	ht	12	HIS	ND1-CE1	5.70	1.38	1.32
1	hv	42	ALA	CA-C	-5.70	1.45	1.52
1	it	6	LEU	CA-C	5.70	1.59	1.52
1	ix	116	GLY	CA-C	-5.70	1.45	1.52
1	iI	12	HIS	CE1-NE2	5.70	1.38	1.32
1	iQ	82	ARG	CD-NE	5.70	1.54	1.46
1	jb	177	ALA	CA-C	5.70	1.60	1.52
1	kU	161	PHE	CA-C	-5.70	1.45	1.52
1	kW	3	VAL	CA-CB	5.70	1.62	1.54
1	29	87	HIS	ND1-CE1	5.70	1.38	1.32
1	2M	12	HIS	C-N	5.70	1.40	1.33
1	3h	115	ILE	N-CA	-5.70	1.39	1.46
1	3t	90	PRO	CA-CB	-5.70	1.46	1.53
1	3F	71	GLU	CA-C	-5.70	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3I	35	GLU	C-N	5.70	1.41	1.33
1	4f	120	HIS	ND1-CE1	5.70	1.38	1.32
1	4E	87	HIS	CA-C	-5.70	1.45	1.52
1	56	134	ILE	CA-C	-5.70	1.45	1.52
1	60	159	GLU	CA-CB	5.70	1.60	1.53
1	75	11	VAL	C-N	5.70	1.41	1.33
1	7b	18	ARG	CA-C	5.70	1.60	1.52
1	7m	45	GLU	C-N	5.70	1.41	1.33
1	82	109	SER	CA-CB	-5.70	1.44	1.53
1	87	37	ILE	CA-CB	-5.70	1.50	1.53
1	8M	18	ARG	N-CA	-5.70	1.39	1.46
1	94	132	ARG	C-N	5.70	1.41	1.33
1	9l	156	GLY	N-CA	5.70	1.52	1.44
1	9s	159	GLU	N-CA	5.70	1.54	1.46
1	9U	20	LEU	CA-C	-5.70	1.45	1.52
1	aa	126	VAL	N-CA	-5.70	1.40	1.46
1	ag	131	LYS	C-N	5.70	1.41	1.34
1	ax	21	ASN	C-N	5.70	1.41	1.33
1	aQ	199	LYS	C-N	5.70	1.41	1.33
1	b6	96	MET	CA-CB	5.70	1.62	1.53
1	dj	1	PRO	N-CA	5.70	1.55	1.47
1	dC	187	GLU	N-CA	5.70	1.53	1.46
1	fO	45	GLU	C-N	5.70	1.41	1.33
1	2	117	TRP	CA-CB	5.70	1.62	1.53
1	E	67	GLN	N-CA	5.70	1.53	1.46
1	Q	201	ILE	C-O	-5.70	1.17	1.24
1	g9	161	PHE	CA-CB	5.70	1.62	1.53
1	gO	159	GLU	N-CA	-5.70	1.39	1.46
1	ha	165	VAL	N-CA	5.70	1.53	1.46
1	hL	12	HIS	CA-C	5.70	1.60	1.52
1	hT	204	ALA	CA-C	5.70	1.60	1.52
1	i3	70	LYS	CA-C	-5.70	1.45	1.52
1	i8	216	THR	CA-C	-5.70	1.44	1.52
1	1W	103	ASP	CA-C	5.70	1.60	1.52
1	k7	150	ILE	CA-C	5.70	1.60	1.52
1	kb	10	MET	CA-CB	5.70	1.60	1.52
1	ko	114	GLN	CA-C	-5.70	1.45	1.52
1	ks	54	THR	C-N	5.70	1.41	1.33
1	kx	56	LEU	N-CA	-5.70	1.39	1.46
1	kD	217	ALA	N-CA	5.70	1.53	1.45
1	lf	184	TRP	CA-CB	5.70	1.62	1.53
1	lx	55	MET	N-CA	5.70	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2a	175	GLU	CA-CB	5.70	1.61	1.53
1	2i	175	GLU	CA-C	5.70	1.60	1.52
1	2D	168	PHE	CA-CB	5.70	1.62	1.53
1	2Y	86	VAL	C-N	5.70	1.40	1.33
1	3l	146	SER	CA-CB	-5.70	1.45	1.53
1	3w	185	MET	CA-CB	5.70	1.62	1.53
1	3A	9	GLN	CA-CB	5.70	1.61	1.53
1	3C	111	LEU	C-O	-5.70	1.17	1.24
1	3G	126	VAL	C-N	5.70	1.40	1.33
1	3O	85	PRO	N-CA	-5.70	1.40	1.47
1	63	135	ILE	CA-CB	-5.70	1.47	1.54
1	6l	199	LYS	N-CA	-5.70	1.39	1.46
1	6r	76	GLU	N-CA	5.70	1.53	1.46
1	6H	88	ALA	C-N	5.70	1.42	1.33
1	75	12	HIS	CG-ND1	-5.70	1.31	1.38
1	7e	41	SER	CA-CB	5.70	1.62	1.53
1	7m	33	SER	C-O	-5.70	1.16	1.23
1	7u	212	GLU	N-CA	-5.70	1.39	1.46
1	7v	58	THR	N-CA	5.70	1.53	1.46
1	7S	144	MET	CA-CB	5.70	1.62	1.53
1	85	208	ALA	C-N	5.70	1.41	1.33
1	8a	2	ILE	CA-CB	-5.70	1.47	1.54
1	90	82	ARG	N-CA	-5.70	1.39	1.46
1	9q	85	PRO	C-N	5.70	1.40	1.33
1	9t	84	HIS	CG-ND1	-5.70	1.31	1.38
1	9R	77	ALA	C-N	5.70	1.41	1.33
1	ab	229	ARG	NE-CZ	5.70	1.39	1.33
1	ak	167	ARG	CD-NE	5.70	1.54	1.46
1	aB	167	ARG	CA-CB	5.70	1.62	1.53
1	aD	172	LEU	CA-C	5.70	1.60	1.52
1	b5	86	VAL	C-O	5.70	1.30	1.24
1	bb	134	ILE	CA-CB	-5.70	1.47	1.54
1	bG	45	GLU	CA-C	-5.70	1.45	1.52
1	bP	191	VAL	CA-CB	-5.70	1.46	1.54
1	1b	16	SER	CA-C	5.70	1.59	1.53
1	cu	224	PRO	CA-CB	5.70	1.61	1.53
1	1g	87	HIS	CA-CB	5.70	1.62	1.53
1	1h	87	HIS	ND1-CE1	5.70	1.38	1.32
1	cX	216	THR	CA-C	-5.70	1.45	1.52
1	d2	154	ARG	C-N	5.70	1.41	1.33
1	dc	97	ARG	CD-NE	5.70	1.54	1.46
1	dj	117	TRP	C-O	-5.70	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dn	163	ASP	CA-C	5.70	1.60	1.52
1	dB	79	GLU	N-CA	5.70	1.53	1.46
1	dT	16	SER	CA-C	5.70	1.59	1.52
1	dW	187	GLU	CA-C	-5.70	1.45	1.52
1	eF	46	GLY	C-N	5.70	1.41	1.33
1	1s	89	GLY	N-CA	5.70	1.52	1.44
1	1x	177	ALA	C-N	-5.70	1.25	1.33
1	fB	184	TRP	CA-C	-5.70	1.45	1.52
1	fJ	12	HIS	CA-C	5.70	1.59	1.52
1	fT	116	GLY	CA-C	5.70	1.59	1.51
1	fW	47	ALA	N-CA	-5.70	1.39	1.46
1	g5	17	PRO	C-N	5.70	1.41	1.33
1	h	23	TRP	CA-CB	5.70	1.62	1.53
1	C	44	SER	C-N	5.70	1.41	1.33
1	D	187	GLU	CA-C	5.70	1.60	1.52
1	gu	218	CYS	CA-CB	5.69	1.63	1.53
1	gX	129	ILE	C-O	-5.69	1.17	1.24
1	hD	160	PRO	CA-CB	-5.69	1.45	1.53
1	kR	52	LEU	CA-C	5.69	1.60	1.52
1	lR	121	ASN	CA-C	5.69	1.59	1.52
1	4f	173	ARG	CA-CB	5.69	1.62	1.53
1	4h	229	ARG	CD-NE	5.69	1.54	1.46
1	4O	131	LYS	C-N	5.69	1.41	1.34
1	55	197	ASP	CA-C	5.69	1.60	1.52
1	5y	198	CYS	CA-C	5.69	1.60	1.52
1	75	90	PRO	CA-CB	-5.69	1.45	1.53
1	7q	44	SER	C-N	5.69	1.41	1.33
1	7x	93	PRO	C-N	5.69	1.41	1.33
1	7z	77	ALA	CA-C	5.69	1.60	1.52
1	7J	214	MET	CA-C	-5.69	1.45	1.52
1	86	26	VAL	C-N	5.69	1.41	1.33
1	8v	73	ILE	CA-CB	-5.69	1.46	1.54
1	bi	186	THR	CA-C	5.69	1.60	1.52
1	bM	162	ARG	CD-NE	5.69	1.54	1.46
1	bS	9	GLN	CA-C	5.69	1.60	1.52
1	cA	171	THR	N-CA	-5.69	1.39	1.46
1	cT	194	ALA	N-CA	-5.69	1.38	1.45
1	dq	112	GLN	N-CA	-5.69	1.39	1.46
1	dM	155	GLN	CA-C	5.69	1.59	1.52
1	dZ	28	GLU	CA-C	5.69	1.60	1.52
1	fB	76	GLU	CA-CB	5.69	1.62	1.53
1	d	156	GLY	N-CA	5.69	1.52	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	y	100	ARG	CD-NE	5.69	1.54	1.46
1	g9	153	ILE	C-N	5.69	1.41	1.33
1	gm	25	LYS	C-N	5.69	1.41	1.33
1	gr	210	THR	CA-C	-5.69	1.45	1.52
1	gK	61	GLY	C-O	-5.69	1.18	1.23
1	h4	160	PRO	N-CA	-5.69	1.42	1.47
1	h6	78	ALA	CA-C	-5.69	1.45	1.52
1	hu	51	ASP	C-N	5.69	1.41	1.33
1	hU	44	SER	CA-CB	5.69	1.61	1.53
1	iZ	73	ILE	CA-C	-5.69	1.45	1.52
1	jl	100	ARG	CA-CB	5.69	1.62	1.53
1	jl	133	TRP	CA-C	5.69	1.60	1.52
1	jn	87	HIS	CD2-NE2	5.69	1.44	1.37
1	kb	126	VAL	CA-CB	-5.69	1.47	1.54
1	21	56	LEU	CB-CG	5.69	1.64	1.53
1	kt	173	ARG	CA-CB	5.69	1.62	1.53
1	l0	123	PRO	N-CA	5.69	1.53	1.47
1	28	230	VAL	CA-CB	-5.69	1.47	1.54
1	lH	229	ARG	CD-NE	5.69	1.54	1.46
1	2K	210	THR	CA-CB	-5.69	1.44	1.53
1	2N	11	VAL	N-CA	5.69	1.52	1.46
1	2Z	173	ARG	C-O	-5.69	1.17	1.24
1	31	59	VAL	CA-C	-5.69	1.46	1.52
1	31	82	ARG	CD-NE	5.69	1.54	1.46
1	3h	16	SER	CA-CB	5.69	1.62	1.53
1	42	105	ALA	CA-C	5.69	1.63	1.52
1	4i	2	ILE	CA-C	5.69	1.59	1.52
1	52	18	ARG	CA-CB	5.69	1.62	1.53
1	52	23	TRP	CA-C	-5.69	1.45	1.52
1	5h	204	ALA	C-N	5.69	1.41	1.33
1	5l	97	ARG	CD-NE	5.69	1.54	1.46
1	5p	12	HIS	CE1-NE2	5.69	1.38	1.32
1	5t	143	ARG	CA-C	-5.69	1.45	1.52
1	5u	187	GLU	CA-C	-5.69	1.45	1.52
1	5w	130	TYR	C-N	5.69	1.41	1.33
1	5I	146	SER	CA-C	5.69	1.59	1.53
1	5Q	226	HIS	CA-CB	5.69	1.61	1.53
1	61	22	ALA	C-N	5.69	1.41	1.33
1	67	206	GLY	C-N	-5.69	1.26	1.34
1	6W	84	HIS	CA-C	5.69	1.58	1.52
1	7l	109	SER	CA-CB	5.69	1.63	1.53
1	8b	141	ILE	C-N	5.69	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	100	ARG	NE-CZ	5.69	1.39	1.33
1	8u	57	ASN	N-CA	5.69	1.53	1.46
1	8G	229	ARG	CD-NE	5.69	1.54	1.46
1	9v	23	TRP	CA-CB	5.69	1.62	1.53
1	a1	187	GLU	N-CA	-5.69	1.39	1.46
1	a2	62	HIS	CA-C	-5.69	1.45	1.53
1	aq	91	ILE	N-CA	5.69	1.53	1.46
1	aw	154	ARG	CD-NE	5.69	1.54	1.46
1	18	120	HIS	CA-CB	5.69	1.61	1.53
1	bC	82	ARG	CD-NE	5.69	1.54	1.46
1	bH	218	CYS	N-CA	5.69	1.55	1.46
1	bY	90	PRO	N-CD	-5.69	1.39	1.47
1	cb	164	TYR	C-N	5.69	1.41	1.33
1	ce	184	TRP	CA-CB	5.69	1.62	1.53
1	co	62	HIS	CA-C	-5.69	1.46	1.53
1	cy	82	ARG	CA-CB	5.69	1.62	1.53
1	cQ	83	LEU	CA-CB	5.69	1.62	1.53
1	d2	18	ARG	CD-NE	5.69	1.54	1.46
1	d8	184	TRP	NE1-CE2	-5.69	1.31	1.37
1	dF	110	THR	N-CA	5.69	1.52	1.45
1	dL	201	ILE	CA-CB	5.69	1.61	1.54
1	dR	33	SER	CA-CB	5.69	1.62	1.53
1	e5	123	PRO	N-CD	5.69	1.55	1.47
1	e6	226	HIS	C-O	5.69	1.31	1.24
1	eY	2	ILE	CA-CB	-5.69	1.48	1.54
1	f1	34	PRO	CA-C	5.69	1.62	1.52
1	fm	33	SER	CA-CB	5.69	1.62	1.54
1	fV	175	GLU	C-O	-5.69	1.17	1.23
1	fX	176	GLN	C-N	5.69	1.41	1.33
1	1	98	GLU	C-N	5.69	1.39	1.33
1	gi	141	ILE	C-N	5.69	1.41	1.34
1	gl	154	ARG	N-CA	5.69	1.53	1.46
1	gB	213	GLU	CA-CB	5.69	1.62	1.53
1	h0	24	VAL	CA-CB	-5.69	1.46	1.54
1	h5	56	LEU	N-CA	-5.69	1.39	1.46
1	hB	223	GLY	CA-C	-5.69	1.43	1.51
1	hL	134	ILE	CB-CG1	5.69	1.64	1.53
1	1M	113	GLU	N-CA	5.69	1.53	1.46
1	1N	203	LYS	CA-C	-5.69	1.45	1.52
1	it	140	LYS	C-N	5.69	1.41	1.33
1	ix	98	GLU	CA-CB	5.69	1.61	1.53
1	iP	153	ILE	CB-CG1	5.69	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iS	21	ASN	C-O	-5.69	1.17	1.24
1	jb	227	LYS	N-CA	-5.69	1.38	1.46
1	jc	112	GLN	C-N	5.69	1.41	1.33
1	ju	70	LYS	CA-C	5.69	1.60	1.52
1	jw	92	GLU	CA-CB	5.69	1.61	1.53
1	jI	184	TRP	NE1-CE2	-5.69	1.31	1.37
1	kv	95	GLN	N-CA	-5.69	1.39	1.46
1	kx	79	GLU	CA-C	5.69	1.60	1.52
1	kC	80	TRP	CZ2-CH2	5.69	1.48	1.37
1	kM	145	TYR	CA-CB	5.69	1.63	1.53
1	l0	209	ALA	C-N	5.69	1.41	1.33
1	l3	141	ILE	N-CA	5.69	1.53	1.46
1	lf	68	MET	SD-CE	5.69	1.93	1.79
1	lD	135	ILE	N-CA	5.69	1.53	1.46
1	2a	188	THR	CA-C	5.69	1.57	1.52
1	2f	104	ILE	N-CA	5.69	1.53	1.46
1	2x	123	PRO	C-N	5.69	1.38	1.33
1	2Y	108	THR	CA-CB	5.69	1.61	1.53
1	31	90	PRO	C-N	-5.69	1.28	1.33
1	36	218	CYS	N-CA	-5.69	1.38	1.46
1	3g	37	ILE	CA-C	5.69	1.57	1.52
1	47	167	ARG	CZ-NH1	-5.69	1.24	1.32
1	4D	16	SER	CA-C	5.69	1.59	1.52
1	4M	176	GLN	C-N	5.69	1.41	1.33
1	4Z	73	ILE	CA-C	-5.69	1.45	1.52
1	54	130	TYR	C-N	5.69	1.41	1.33
1	5P	155	GLN	N-CA	-5.69	1.39	1.46
1	5Y	54	THR	N-CA	5.69	1.53	1.46
1	6i	29	GLU	C-O	-5.69	1.16	1.24
1	6o	31	ALA	C-N	5.69	1.41	1.33
1	6y	130	TYR	CA-C	5.69	1.60	1.52
1	6A	212	GLU	CA-C	5.69	1.60	1.52
1	6O	201	ILE	CA-C	5.69	1.59	1.52
1	76	229	ARG	CA-C	5.69	1.60	1.52
1	7j	211	LEU	CA-C	5.69	1.60	1.52
1	7l	12	HIS	CE1-NE2	-5.69	1.26	1.32
1	7l	175	GLU	CA-CB	5.69	1.62	1.53
1	7y	86	VAL	CA-CB	5.69	1.60	1.54
1	7G	88	ALA	CA-CB	5.69	1.61	1.53
1	88	6	LEU	CA-C	-5.69	1.45	1.52
1	8n	208	ALA	CA-CB	5.69	1.62	1.54
1	8o	166	ASP	CA-C	5.69	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8I	153	ILE	CA-C	-5.69	1.46	1.52
1	8R	32	PHE	CA-CB	5.69	1.62	1.53
1	9n	73	ILE	C-N	5.69	1.41	1.33
1	9v	229	ARG	CA-C	-5.69	1.45	1.52
1	9R	32	PHE	CA-C	5.69	1.60	1.52
1	9X	46	GLY	C-N	5.69	1.41	1.33
1	11	26	VAL	CA-CB	5.69	1.61	1.54
1	al	145	TYR	CA-CB	5.69	1.62	1.53
1	aF	114	GLN	N-CA	5.69	1.53	1.46
1	aI	141	ILE	C-N	5.69	1.40	1.33
1	aU	121	ASN	CA-C	5.69	1.59	1.52
1	15	154	ARG	CA-CB	5.69	1.63	1.53
1	b3	103	ASP	C-N	-5.69	1.26	1.33
1	b8	192	GLN	N-CA	-5.69	1.39	1.46
1	bz	119	THR	N-CA	5.69	1.53	1.45
1	c4	147	PRO	N-CA	-5.69	1.40	1.47
1	cj	20	LEU	CA-CB	-5.69	1.44	1.53
1	cu	7	GLN	CA-C	5.69	1.60	1.52
1	cB	12	HIS	C-N	5.69	1.42	1.33
1	1i	14	ALA	N-CA	-5.69	1.38	1.46
1	1i	57	ASN	C-N	5.69	1.41	1.33
1	dD	185	MET	N-CA	5.69	1.53	1.46
1	dH	198	CYS	C-O	-5.69	1.17	1.24
1	dL	51	ASP	CA-C	5.69	1.59	1.52
1	dQ	30	LYS	CA-C	-5.69	1.45	1.52
1	dZ	154	ARG	C-N	5.69	1.41	1.33
1	e7	181	VAL	CA-C	-5.69	1.45	1.52
1	e9	207	PRO	C-N	5.69	1.41	1.33
1	ea	228	ALA	N-CA	-5.69	1.39	1.46
1	en	169	TYR	CA-C	5.69	1.60	1.52
1	eo	145	TYR	C-N	5.69	1.41	1.33
1	eN	86	VAL	CA-CB	-5.69	1.47	1.54
1	eN	166	ASP	N-CA	5.69	1.53	1.46
1	fg	105	ALA	C-N	5.69	1.41	1.33
1	fj	225	GLY	CA-C	5.69	1.59	1.51
1	fr	190	LEU	C-N	5.69	1.41	1.33
1	fN	52	LEU	C-N	5.69	1.41	1.33
1	a	176	GLN	C-N	5.69	1.40	1.33
1	u	158	LYS	CA-CB	5.69	1.62	1.53
1	A	205	LEU	N-CA	-5.69	1.39	1.46
1	gT	40	PHE	CA-C	5.69	1.60	1.52
1	il	135	ILE	CA-CB	-5.69	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jj	189	LEU	C-N	5.69	1.41	1.33
1	jA	164	TYR	CA-CB	5.69	1.63	1.53
1	ka	65	ALA	CA-C	-5.69	1.45	1.52
1	kc	116	GLY	N-CA	5.69	1.52	1.45
1	l6	164	TYR	CA-C	5.69	1.60	1.52
1	4G	9	GLN	N-CA	-5.69	1.38	1.45
1	4R	195	ASN	CA-C	5.69	1.59	1.53
1	4U	225	GLY	CA-C	5.69	1.59	1.51
1	52	106	GLY	CA-C	5.69	1.59	1.51
1	5d	49	PRO	N-CA	-5.69	1.40	1.47
1	5B	63	GLN	CA-CB	5.69	1.62	1.53
1	5C	206	GLY	N-CA	5.69	1.52	1.44
1	64	21	ASN	CA-C	5.69	1.60	1.52
1	7B	131	LYS	CA-C	5.69	1.60	1.52
1	7S	226	HIS	CB-CG	5.69	1.58	1.50
1	aO	176	GLN	C-N	5.69	1.40	1.33
1	b8	51	ASP	N-CA	-5.69	1.39	1.46
1	bw	71	GLU	CA-CB	5.69	1.62	1.53
1	cO	143	ARG	N-CA	5.69	1.53	1.46
1	dv	97	ARG	CA-C	5.69	1.60	1.53
1	dz	110	THR	N-CA	5.69	1.53	1.45
1	dJ	18	ARG	CZ-NH2	-5.69	1.26	1.33
1	f9	209	ALA	CA-CB	5.69	1.60	1.53
1	fp	149	SER	N-CA	5.69	1.52	1.45
1	ft	20	LEU	CA-C	5.69	1.60	1.52
1	fu	162	ARG	N-CA	-5.69	1.39	1.46
1	E	33	SER	CA-CB	5.69	1.62	1.53
1	gF	143	ARG	CA-C	5.69	1.60	1.52
1	h2	99	PRO	CA-C	5.69	1.59	1.52
1	h5	168	PHE	CA-C	5.69	1.60	1.52
1	hp	73	ILE	N-CA	5.69	1.53	1.46
1	1L	23	TRP	CA-CB	5.69	1.62	1.53
1	hR	203	LYS	CA-C	5.69	1.60	1.52
1	i1	70	LYS	C-N	5.69	1.41	1.33
1	ia	52	LEU	C-N	5.69	1.41	1.33
1	io	201	ILE	CA-C	5.69	1.59	1.52
1	it	228	ALA	CA-C	5.69	1.60	1.52
1	iF	32	PHE	CA-CB	5.69	1.62	1.53
1	iF	83	LEU	CA-CB	5.69	1.62	1.53
1	iN	18	ARG	CA-C	-5.69	1.45	1.52
1	iX	9	GLN	C-N	5.69	1.41	1.33
1	js	126	VAL	C-N	5.69	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1X	171	THR	CA-C	5.69	1.60	1.52
1	jK	143	ARG	CA-CB	5.69	1.62	1.53
1	jP	198	CYS	C-N	5.69	1.41	1.34
1	k3	125	PRO	CA-CB	5.69	1.61	1.53
1	kc	2	ILE	CA-CB	5.69	1.60	1.54
1	l4	159	GLU	C-N	5.69	1.40	1.33
1	ls	80	TRP	CA-C	5.69	1.60	1.52
1	2d	77	ALA	CA-CB	5.69	1.62	1.53
1	48	25	LYS	CA-CB	5.69	1.62	1.53
1	4f	164	TYR	C-N	5.69	1.41	1.33
1	4s	77	ALA	N-CA	5.69	1.53	1.46
1	4A	191	VAL	C-N	5.69	1.41	1.33
1	4L	136	LEU	N-CA	5.69	1.53	1.46
1	4U	18	ARG	CD-NE	5.69	1.54	1.46
1	5k	188	THR	C-O	-5.69	1.16	1.24
1	62	140	LYS	N-CA	5.69	1.53	1.46
1	64	24	VAL	CA-CB	-5.69	1.46	1.54
1	66	130	TYR	CA-C	5.69	1.60	1.52
1	69	3	VAL	CA-C	-5.69	1.46	1.52
1	6Z	124	ILE	CA-C	-5.69	1.48	1.52
1	71	214	MET	N-CA	-5.69	1.39	1.46
1	7n	34	PRO	C-N	5.69	1.42	1.33
1	7q	41	SER	CA-C	-5.69	1.45	1.52
1	7K	145	TYR	CA-C	5.69	1.60	1.52
1	7N	143	ARG	CD-NE	5.69	1.54	1.46
1	88	105	ALA	N-CA	-5.69	1.38	1.46
1	8x	206	GLY	C-N	-5.69	1.29	1.33
1	8A	134	ILE	CA-CB	-5.69	1.47	1.54
1	8E	170	LYS	CA-CB	5.69	1.62	1.53
1	8N	23	TRP	NE1-CE2	-5.69	1.31	1.37
1	9f	89	GLY	N-CA	5.69	1.52	1.44
1	9f	195	ASN	N-CA	5.69	1.53	1.45
1	9D	12	HIS	ND1-CE1	5.69	1.38	1.32
1	9Q	205	LEU	CA-C	5.69	1.60	1.52
1	as	217	ALA	N-CA	5.69	1.53	1.46
1	aL	106	GLY	C-O	5.69	1.31	1.23
1	aT	2	ILE	CA-CB	-5.69	1.47	1.53
1	bf	174	ALA	C-N	5.69	1.41	1.33
1	bm	75	GLU	C-N	5.69	1.41	1.33
1	bw	90	PRO	N-CD	-5.69	1.39	1.47
1	bx	197	ASP	C-O	-5.69	1.17	1.24
1	19	164	TYR	CZ-OH	5.69	1.50	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bN	185	MET	N-CA	-5.69	1.39	1.46
1	c8	100	ARG	CD-NE	5.69	1.54	1.46
1	cd	33	SER	CA-C	-5.69	1.45	1.52
1	cp	172	LEU	CA-C	5.69	1.60	1.52
1	cu	72	THR	CA-CB	5.69	1.62	1.53
1	cu	139	ASN	CA-CB	5.69	1.62	1.53
1	cO	18	ARG	CA-CB	5.69	1.62	1.53
1	cZ	199	LYS	N-CA	5.69	1.53	1.46
1	d0	176	GLN	N-CA	-5.69	1.38	1.46
1	dh	79	GLU	CA-C	5.69	1.60	1.52
1	ef	184	TRP	NE1-CE2	-5.69	1.31	1.37
1	ej	100	ARG	N-CA	-5.69	1.38	1.45
1	eP	99	PRO	CA-C	-5.69	1.45	1.52
1	f5	96	MET	N-CA	-5.69	1.38	1.45
1	fa	70	LYS	N-CA	5.69	1.53	1.46
1	fy	28	GLU	C-O	-5.69	1.17	1.24
1	fy	155	GLN	CA-CB	5.69	1.61	1.53
1	fC	190	LEU	C-O	-5.69	1.17	1.24
1	fL	228	ALA	N-CA	5.69	1.52	1.46
1	x	23	TRP	C-N	5.69	1.41	1.33
1	A	140	LYS	C-N	5.69	1.41	1.34
1	K	100	ARG	CD-NE	5.69	1.54	1.46
1	5	100	ARG	CD-NE	5.69	1.54	1.46
1	gB	68	MET	N-CA	5.69	1.53	1.46
1	gD	107	THR	C-O	-5.69	1.17	1.24
1	gD	129	ILE	C-N	5.69	1.41	1.33
1	h8	6	LEU	CA-CB	5.69	1.62	1.53
1	i3	184	TRP	CA-CB	5.69	1.62	1.53
1	1N	145	TYR	CA-C	5.69	1.60	1.52
1	1U	12	HIS	CE1-NE2	-5.69	1.26	1.32
1	jt	136	LEU	CA-CB	5.69	1.62	1.53
1	jH	110	THR	CB-OG1	-5.69	1.34	1.43
1	kA	114	GLN	CA-CB	5.69	1.62	1.53
1	kG	151	LEU	CA-C	5.69	1.60	1.52
1	lF	18	ARG	CD-NE	5.69	1.54	1.46
1	4H	77	ALA	N-CA	-5.69	1.39	1.46
1	59	158	LYS	C-N	5.69	1.40	1.32
1	5a	127	GLY	CA-C	5.69	1.58	1.52
1	6w	76	GLU	C-N	5.69	1.41	1.33
1	73	45	GLU	N-CA	-5.69	1.38	1.46
1	8K	70	LYS	C-N	-5.69	1.26	1.33
1	aS	223	GLY	N-CA	5.69	1.52	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b1	73	ILE	CA-C	-5.69	1.44	1.52
1	b3	148	THR	CA-C	-5.69	1.45	1.52
1	cy	156	GLY	CA-C	5.69	1.60	1.51
1	dg	59	VAL	C-N	5.69	1.41	1.33
1	dQ	26	VAL	CA-CB	-5.69	1.47	1.54
1	e7	133	TRP	CA-C	5.69	1.60	1.52
1	ep	84	HIS	CA-CB	5.69	1.60	1.53
1	ev	137	GLY	C-N	5.69	1.42	1.33
1	1s	213	GLU	N-CA	-5.69	1.39	1.46
1	fI	178	SER	CA-CB	5.69	1.62	1.53
1	g2	169	TYR	CB-CG	5.69	1.64	1.51
1	e	52	LEU	CA-CB	5.69	1.62	1.53
1	g8	17	PRO	CA-C	5.68	1.60	1.52
1	gb	204	ALA	N-CA	-5.68	1.39	1.46
1	gt	135	ILE	C-N	5.68	1.41	1.33
1	gM	151	LEU	CA-CB	5.68	1.63	1.53
1	gU	215	MET	CA-C	5.68	1.60	1.52
1	h3	199	LYS	C-O	-5.68	1.17	1.24
1	hn	228	ALA	CA-C	-5.68	1.45	1.52
1	hC	119	THR	CA-CB	-5.68	1.44	1.53
1	hL	112	GLN	C-N	5.68	1.41	1.33
1	iD	56	LEU	C-O	-5.68	1.17	1.24
1	iI	92	GLU	CA-CB	5.68	1.61	1.53
1	iP	54	THR	C-N	5.68	1.41	1.33
1	j0	223	GLY	C-N	5.68	1.40	1.33
1	js	229	ARG	CD-NE	5.68	1.54	1.46
1	jz	29	GLU	CA-C	5.68	1.59	1.52
1	jO	1	PRO	N-CD	5.68	1.55	1.47
1	1Y	22	ALA	C-N	-5.68	1.26	1.33
1	kb	118	MET	CA-CB	5.68	1.63	1.53
1	kl	209	ALA	CA-C	-5.68	1.45	1.52
1	kr	193	ASN	CA-CB	5.68	1.61	1.53
1	l5	120	HIS	CA-C	-5.68	1.45	1.52
1	lz	112	GLN	C-O	-5.68	1.17	1.24
1	2u	201	ILE	C-O	-5.68	1.17	1.24
1	2C	144	MET	CA-C	5.68	1.61	1.52
1	2Q	18	ARG	CA-CB	5.68	1.62	1.53
1	2Z	159	GLU	CA-C	-5.68	1.46	1.53
1	2Z	196	PRO	N-CD	-5.68	1.39	1.47
1	3G	126	VAL	CA-C	5.68	1.59	1.52
1	3P	64	ALA	C-N	5.68	1.41	1.33
1	3T	182	LYS	N-CA	5.68	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	42	146	SER	N-CA	5.68	1.54	1.46
1	4a	37	ILE	CA-C	5.68	1.57	1.52
1	4b	173	ARG	NE-CZ	-5.68	1.26	1.33
1	4c	226	HIS	C-N	5.68	1.41	1.33
1	4i	116	GLY	CA-C	-5.68	1.45	1.52
1	4j	85	PRO	C-N	5.68	1.40	1.33
1	4G	94	GLY	CA-C	5.68	1.60	1.51
1	4N	6	LEU	CA-CB	5.68	1.62	1.53
1	4T	5	ASN	CA-CB	5.68	1.62	1.54
1	4U	195	ASN	C-N	5.68	1.42	1.33
1	5y	82	ARG	CA-CB	5.68	1.62	1.53
1	60	121	ASN	C-O	-5.68	1.19	1.25
1	6b	194	ALA	C-N	5.68	1.41	1.33
1	6U	44	SER	C-N	5.68	1.41	1.33
1	7c	31	ALA	CA-C	-5.68	1.45	1.52
1	7N	125	PRO	N-CA	-5.68	1.38	1.48
1	7Q	178	SER	CA-CB	5.68	1.63	1.53
1	8g	189	LEU	C-N	5.68	1.41	1.33
1	8w	84	HIS	C-O	-5.68	1.19	1.25
1	8x	141	ILE	N-CA	5.68	1.53	1.46
1	8z	202	LEU	N-CA	-5.68	1.39	1.46
1	9M	25	LYS	CA-C	5.68	1.60	1.52
1	9O	167	ARG	C-O	5.68	1.30	1.24
1	9T	197	ASP	CA-CB	5.68	1.62	1.53
1	at	100	ARG	CA-CB	5.68	1.61	1.53
1	bj	12	HIS	ND1-CE1	5.68	1.38	1.32
1	bH	104	ILE	C-N	-5.68	1.26	1.33
1	bR	197	ASP	CA-CB	5.68	1.62	1.53
1	cr	178	SER	CA-C	-5.68	1.45	1.52
1	cS	55	MET	C-O	-5.68	1.17	1.24
1	dc	168	PHE	N-CA	5.68	1.53	1.46
1	dj	160	PRO	CA-C	5.68	1.60	1.52
1	dF	213	GLU	CA-C	5.68	1.60	1.52
1	e2	180	GLU	CA-CB	5.68	1.62	1.53
1	eo	75	GLU	N-CA	-5.68	1.39	1.46
1	ex	130	TYR	C-O	-5.68	1.17	1.24
1	eA	46	GLY	CA-C	-5.68	1.43	1.51
1	1s	81	ASP	C-N	5.68	1.41	1.33
1	eQ	73	ILE	C-N	-5.68	1.26	1.34
1	eT	151	LEU	CA-CB	5.68	1.62	1.53
1	eX	229	ARG	CZ-NH1	-5.68	1.24	1.32
1	fy	199	LYS	CA-C	-5.68	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fF	225	GLY	CA-C	-5.68	1.43	1.51
1	fT	120	HIS	N-CA	-5.68	1.38	1.45
1	k	82	ARG	CD-NE	5.68	1.54	1.46
1	p	64	ALA	CA-C	5.68	1.60	1.52
1	u	24	VAL	N-CA	-5.68	1.39	1.46
1	w	115	ILE	CA-C	-5.68	1.45	1.52
1	6	136	LEU	C-N	5.68	1.40	1.34
1	hf	218	CYS	CA-CB	5.68	1.63	1.53
1	hB	194	ALA	CA-CB	5.68	1.62	1.53
1	hD	115	ILE	CA-CB	-5.68	1.47	1.54
1	iV	6	LEU	CA-CB	5.68	1.63	1.53
1	je	47	ALA	CA-C	5.68	1.59	1.52
1	jg	89	GLY	CA-C	5.68	1.60	1.51
1	kC	213	GLU	CA-CB	5.68	1.62	1.53
1	kM	187	GLU	N-CA	5.68	1.53	1.46
1	24	199	LYS	CA-C	-5.68	1.45	1.52
1	lr	96	MET	CA-CB	5.68	1.62	1.53
1	2G	85	PRO	C-N	5.68	1.40	1.33
1	30	89	GLY	N-CA	5.68	1.52	1.44
1	31	134	ILE	CA-C	5.68	1.59	1.52
1	3L	85	PRO	C-N	5.68	1.40	1.33
1	3M	44	SER	CA-CB	5.68	1.62	1.53
1	3P	47	ALA	N-CA	-5.68	1.38	1.46
1	3V	208	ALA	CA-CB	5.68	1.62	1.53
1	4y	189	LEU	CA-CB	5.68	1.62	1.53
1	4N	30	LYS	N-CA	5.68	1.53	1.46
1	4O	117	TRP	NE1-CE2	-5.68	1.31	1.37
1	4X	65	ALA	C-O	-5.68	1.17	1.24
1	5c	40	PHE	CA-CB	5.68	1.62	1.53
1	5g	91	ILE	CA-C	5.68	1.60	1.52
1	5D	184	TRP	CA-C	5.68	1.60	1.52
1	5E	139	ASN	C-O	-5.68	1.17	1.24
1	6g	28	GLU	N-CA	-5.68	1.39	1.46
1	6t	116	GLY	CA-C	5.68	1.58	1.52
1	7D	87	HIS	CG-CD2	5.68	1.42	1.35
1	83	74	ASN	CA-CB	5.68	1.62	1.53
1	87	21	ASN	C-N	5.68	1.41	1.33
1	8P	131	LYS	CA-C	-5.68	1.45	1.52
1	8Q	19	THR	CA-C	-5.68	1.45	1.52
1	8X	84	HIS	ND1-CE1	5.68	1.38	1.32
1	90	154	ARG	N-CA	-5.68	1.38	1.45
1	97	38	PRO	N-CA	-5.68	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9b	195	ASN	CA-CB	5.68	1.61	1.53
1	9n	207	PRO	C-N	5.68	1.41	1.34
1	9N	45	GLU	N-CA	5.68	1.53	1.46
1	a0	124	ILE	CA-C	-5.68	1.47	1.52
1	a2	5	ASN	CA-C	5.68	1.58	1.52
1	ao	139	ASN	CA-C	5.68	1.60	1.52
1	ar	42	ALA	N-CA	-5.68	1.39	1.46
1	16	229	ARG	N-CA	5.68	1.53	1.46
1	bk	184	TRP	N-CA	5.68	1.53	1.46
1	bo	177	ALA	CA-C	-5.68	1.45	1.53
1	bs	74	ASN	CA-CB	5.68	1.62	1.53
1	bA	73	ILE	N-CA	5.68	1.53	1.46
1	bI	22	ALA	N-CA	5.68	1.53	1.46
1	bT	155	GLN	C-N	5.68	1.42	1.33
1	cn	230	VAL	C-N	5.68	1.41	1.33
1	d9	125	PRO	CA-CB	5.68	1.61	1.53
1	dy	75	GLU	CA-CB	5.68	1.62	1.53
1	dG	152	ASP	N-CA	-5.68	1.39	1.46
1	ev	92	GLU	CA-CB	5.68	1.62	1.53
1	fd	83	LEU	CA-C	-5.68	1.45	1.52
1	fk	9	GLN	CA-CB	5.68	1.63	1.54
1	fp	37	ILE	N-CA	-5.68	1.40	1.46
1	fN	152	ASP	N-CA	5.68	1.52	1.46
1	s	204	ALA	CA-C	5.68	1.60	1.52
1	z	69	LEU	CA-CB	5.68	1.62	1.53
1	X	174	ALA	CA-C	5.68	1.60	1.52
1	gc	191	VAL	N-CA	-5.68	1.39	1.46
1	gO	111	LEU	CA-CB	5.68	1.62	1.53
1	gZ	100	ARG	CD-NE	5.68	1.54	1.46
1	1I	72	THR	N-CA	5.68	1.53	1.46
1	1K	180	GLU	N-CA	5.68	1.53	1.46
1	hM	69	LEU	C-N	5.68	1.41	1.33
1	ib	51	ASP	CA-C	5.68	1.60	1.52
1	is	142	VAL	C-O	-5.68	1.17	1.24
1	1S	173	ARG	N-CA	5.68	1.53	1.46
1	1Z	27	VAL	CA-C	-5.68	1.44	1.52
1	k4	95	GLN	CA-CB	5.68	1.62	1.53
1	kr	62	HIS	CA-C	5.68	1.60	1.53
1	ku	226	HIS	C-N	5.68	1.41	1.33
1	kN	127	GLY	N-CA	5.68	1.52	1.45
1	kP	169	TYR	CZ-OH	5.68	1.50	1.38
1	lf	19	THR	CA-CB	5.68	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lk	169	TYR	CA-C	-5.68	1.45	1.52
1	lk	177	ALA	CA-CB	5.68	1.63	1.53
1	lm	7	GLN	C-N	5.68	1.41	1.33
1	2D	163	ASP	CA-C	5.68	1.60	1.52
1	3d	97	ARG	CD-NE	5.68	1.54	1.46
1	3G	18	ARG	CD-NE	5.68	1.54	1.46
1	3M	14	ALA	N-CA	5.68	1.53	1.46
1	49	143	ARG	CA-C	-5.68	1.45	1.52
1	59	96	MET	CA-C	5.68	1.59	1.52
1	6m	173	ARG	CD-NE	5.68	1.54	1.46
1	7i	45	GLU	CA-C	-5.68	1.45	1.52
1	7E	54	THR	N-CA	5.68	1.53	1.46
1	8w	69	LEU	C-N	5.68	1.41	1.33
1	8O	93	PRO	CA-C	5.68	1.59	1.52
1	9s	219	GLN	C-O	5.68	1.31	1.23
1	9x	194	ALA	N-CA	-5.68	1.38	1.45
1	9z	218	CYS	CA-CB	5.68	1.61	1.53
1	a3	65	ALA	CA-C	5.68	1.60	1.52
1	a4	17	PRO	C-N	5.68	1.41	1.33
1	aj	17	PRO	CA-C	-5.68	1.43	1.52
1	b5	92	GLU	CA-C	5.68	1.58	1.52
1	be	131	LYS	CA-CB	5.68	1.62	1.53
1	bf	93	PRO	C-N	5.68	1.40	1.33
1	bj	177	ALA	CA-C	-5.68	1.45	1.52
1	bG	133	TRP	CA-CB	5.68	1.62	1.53
1	bH	216	THR	CA-C	5.68	1.60	1.52
1	1f	128	GLU	N-CA	-5.68	1.39	1.46
1	dZ	123	PRO	CA-C	-5.68	1.45	1.52
1	eu	131	LYS	C-N	5.68	1.41	1.33
1	1A	222	GLY	N-CA	-5.68	1.37	1.45
1	k	41	SER	C-N	5.68	1.41	1.33
1	z	62	HIS	CA-CB	5.68	1.62	1.53
1	F	5	ASN	N-CA	5.68	1.53	1.45
1	ga	167	ARG	CA-CB	5.68	1.62	1.53
1	gf	130	TYR	CA-CB	5.68	1.62	1.53
1	gv	95	GLN	CA-C	-5.68	1.45	1.52
1	gD	87	HIS	CG-ND1	-5.68	1.32	1.38
1	gF	86	VAL	C-N	5.68	1.41	1.33
1	gJ	76	GLU	C-N	5.68	1.40	1.33
1	h9	61	GLY	C-N	5.68	1.41	1.33
1	hb	229	ARG	CD-NE	5.68	1.54	1.46
1	hp	135	ILE	CA-C	-5.68	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hw	76	GLU	CA-C	5.68	1.60	1.52
1	hJ	56	LEU	C-N	5.68	1.41	1.34
1	iF	183	ASN	CA-C	-5.68	1.45	1.52
1	iK	23	TRP	CA-CB	5.68	1.62	1.53
1	iN	20	LEU	CA-CB	5.68	1.62	1.53
1	iY	129	ILE	N-CA	-5.68	1.40	1.46
1	1T	37	ILE	C-N	-5.68	1.27	1.34
1	1T	173	ARG	CA-C	5.68	1.60	1.52
1	jg	200	THR	C-O	-5.68	1.17	1.24
1	jj	18	ARG	CD-NE	5.68	1.54	1.46
1	jP	226	HIS	CE1-NE2	5.68	1.38	1.32
1	jQ	26	VAL	N-CA	5.68	1.53	1.46
1	kf	220	GLY	C-N	-5.68	1.27	1.33
1	kg	71	GLU	CA-CB	-5.68	1.44	1.53
1	kp	11	VAL	CA-C	-5.68	1.46	1.52
1	ku	162	ARG	CD-NE	5.68	1.54	1.46
1	kU	120	HIS	CB-CG	5.68	1.58	1.50
1	l9	187	GLU	CA-CB	5.68	1.62	1.53
1	ll	46	GLY	CA-C	5.68	1.59	1.51
1	lo	211	LEU	N-CA	-5.68	1.39	1.46
1	lF	164	TYR	CA-C	5.68	1.60	1.52
1	2c	67	GLN	CA-CB	5.68	1.62	1.53
1	3f	20	LEU	C-O	-5.68	1.17	1.24
1	3f	84	HIS	CA-CB	5.68	1.60	1.53
1	3n	87	HIS	ND1-CE1	5.68	1.38	1.32
1	3Y	116	GLY	CA-C	-5.68	1.46	1.52
1	42	41	SER	CA-CB	5.68	1.62	1.53
1	44	22	ALA	C-N	5.68	1.41	1.33
1	44	39	MET	N-CA	-5.68	1.39	1.46
1	4b	148	THR	CA-C	5.68	1.59	1.52
1	4d	60	GLY	C-O	5.68	1.31	1.23
1	4i	178	SER	N-CA	5.68	1.53	1.46
1	4T	3	VAL	CA-C	-5.68	1.45	1.52
1	4X	53	ASN	N-CA	-5.68	1.39	1.46
1	5s	147	PRO	CA-C	-5.68	1.45	1.52
1	5H	198	CYS	CA-C	5.68	1.60	1.52
1	6Z	94	GLY	CA-C	5.68	1.57	1.52
1	70	40	PHE	C-N	5.68	1.41	1.34
1	7o	187	GLU	CA-C	5.68	1.60	1.52
1	8m	80	TRP	CA-C	5.68	1.60	1.52
1	8L	143	ARG	N-CA	-5.68	1.38	1.46
1	9p	215	MET	N-CA	5.68	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9u	32	PHE	CA-CB	5.68	1.60	1.53
1	9z	19	THR	CA-CB	5.68	1.62	1.53
1	9I	33	SER	C-N	5.68	1.38	1.33
1	9Q	198	CYS	C-N	5.68	1.41	1.33
1	a2	34	PRO	N-CA	-5.68	1.40	1.47
1	aW	157	PRO	N-CA	5.68	1.55	1.47
1	b3	104	ILE	CA-CB	-5.68	1.46	1.54
1	b4	83	LEU	C-N	5.68	1.40	1.33
1	b4	228	ALA	CA-C	5.68	1.60	1.52
1	ba	169	TYR	CA-CB	5.68	1.63	1.53
1	17	99	PRO	CA-C	-5.68	1.45	1.52
1	bn	50	GLN	CA-CB	5.68	1.62	1.53
1	bL	68	MET	C-N	5.68	1.41	1.33
1	bR	63	GLN	CA-CB	5.68	1.62	1.53
1	cf	33	SER	C-N	5.68	1.40	1.34
1	cD	159	GLU	CA-CB	5.68	1.61	1.53
1	cV	143	ARG	N-CA	5.68	1.53	1.46
1	cZ	115	ILE	N-CA	5.68	1.53	1.46
1	dk	126	VAL	CA-CB	-5.68	1.47	1.54
1	dr	85	PRO	CA-C	5.68	1.57	1.53
1	1r	62	HIS	CG-ND1	5.68	1.44	1.38
1	fj	213	GLU	C-N	-5.68	1.26	1.33
1	fx	149	SER	N-CA	5.68	1.52	1.45
1	fM	142	VAL	CA-CB	-5.68	1.46	1.54
1	j	150	ILE	C-N	5.68	1.42	1.33
1	S	164	TYR	CG-CD2	5.68	1.51	1.39
1	gn	164	TYR	C-N	5.68	1.40	1.34
1	gp	12	HIS	CB-CG	5.68	1.58	1.50
1	hu	120	HIS	CD2-NE2	5.68	1.44	1.37
1	hM	121	ASN	N-CA	-5.68	1.39	1.46
1	il	171	THR	C-N	5.68	1.41	1.33
1	it	85	PRO	CA-CB	5.68	1.62	1.53
1	1R	201	ILE	N-CA	-5.68	1.39	1.46
1	jX	53	ASN	CA-C	5.68	1.60	1.52
1	l6	13	GLN	C-O	-5.68	1.16	1.23
1	l9	121	ASN	CA-CB	5.68	1.61	1.53
1	28	190	LEU	C-N	5.68	1.41	1.33
1	2M	184	TRP	NE1-CE2	-5.68	1.31	1.37
1	2O	215	MET	CA-CB	5.68	1.62	1.53
1	2P	172	LEU	C-N	5.68	1.41	1.33
1	35	87	HIS	CB-CG	5.68	1.58	1.50
1	3R	12	HIS	C-N	5.68	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	45	37	ILE	C-N	5.68	1.40	1.34
1	4V	27	VAL	N-CA	-5.68	1.39	1.46
1	5x	103	ASP	C-N	5.68	1.41	1.33
1	5Q	175	GLU	CA-CB	5.68	1.62	1.53
1	68	15	ILE	CA-CB	5.68	1.60	1.54
1	6A	66	MET	C-O	-5.68	1.17	1.24
1	97	48	THR	CA-CB	5.68	1.61	1.53
1	9h	207	PRO	N-CA	-5.68	1.40	1.47
1	9k	145	TYR	C-N	5.68	1.42	1.33
1	9n	56	LEU	CA-CB	5.68	1.62	1.53
1	9r	157	PRO	N-CA	-5.68	1.39	1.47
1	9t	187	GLU	C-O	-5.68	1.17	1.24
1	11	185	MET	CA-C	5.68	1.60	1.52
1	ap	188	THR	C-O	-5.68	1.17	1.24
1	aY	12	HIS	CA-C	5.68	1.60	1.52
1	bf	132	ARG	CZ-NH2	-5.68	1.26	1.33
1	bh	224	PRO	N-CA	-5.68	1.40	1.47
1	bT	53	ASN	CA-CB	5.68	1.62	1.53
1	bV	87	HIS	ND1-CE1	5.68	1.38	1.32
1	c2	97	ARG	CD-NE	5.68	1.54	1.46
1	ck	199	LYS	N-CA	-5.68	1.39	1.46
1	cG	230	VAL	C-O	5.68	1.29	1.24
1	cL	79	GLU	CA-CB	5.68	1.62	1.53
1	d9	221	VAL	C-N	5.68	1.39	1.32
1	ds	138	LEU	C-N	5.68	1.41	1.33
1	dz	122	PRO	CA-CB	5.68	1.64	1.53
1	dJ	11	VAL	C-N	5.68	1.41	1.33
1	dK	24	VAL	CA-CB	-5.68	1.47	1.54
1	dM	151	LEU	CA-C	5.68	1.60	1.52
1	fi	119	THR	CA-C	5.68	1.60	1.52
1	fR	184	TRP	N-CA	5.68	1.53	1.46
1	c	124	ILE	CA-C	5.68	1.57	1.53
1	E	153	ILE	N-CA	-5.68	1.39	1.46
1	1E	112	GLN	C-N	5.68	1.41	1.33
1	h5	65	ALA	CA-CB	5.68	1.62	1.53
1	hd	162	ARG	CD-NE	5.68	1.54	1.46
1	hk	226	HIS	N-CA	-5.68	1.39	1.46
1	hs	231	LEU	CA-C	5.68	1.64	1.52
1	1L	227	LYS	N-CA	-5.68	1.38	1.46
1	hK	196	PRO	N-CD	-5.68	1.39	1.47
1	1N	177	ALA	CA-CB	5.68	1.63	1.53
1	iF	62	HIS	CG-ND1	-5.68	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iV	84	HIS	C-N	5.68	1.40	1.33
1	1U	190	LEU	CA-C	5.68	1.60	1.52
1	jl	32	PHE	N-CA	-5.68	1.39	1.46
1	jm	164	TYR	N-CA	-5.68	1.39	1.46
1	jq	198	CYS	CA-C	5.68	1.60	1.52
1	jt	129	ILE	N-CA	-5.68	1.40	1.46
1	ko	112	GLN	N-CA	5.68	1.53	1.46
1	lc	150	ILE	CA-CB	5.68	1.61	1.54
1	lu	163	ASP	N-CA	5.68	1.53	1.46
1	2f	133	TRP	C-N	-5.68	1.26	1.33
1	2I	95	GLN	CA-C	-5.68	1.45	1.53
1	30	39	MET	CA-CB	5.68	1.62	1.53
1	32	183	ASN	C-O	-5.68	1.17	1.24
1	3a	96	MET	CA-C	5.68	1.60	1.52
1	3c	50	GLN	CA-C	-5.68	1.45	1.52
1	3o	196	PRO	N-CD	5.68	1.55	1.47
1	3r	185	MET	CA-CB	5.68	1.62	1.53
1	3x	157	PRO	CA-CB	5.68	1.62	1.53
1	3A	146	SER	CA-CB	5.68	1.62	1.53
1	3F	187	GLU	CA-C	5.68	1.60	1.52
1	3K	186	THR	CA-C	-5.68	1.45	1.52
1	4d	130	TYR	N-CA	5.68	1.53	1.46
1	4v	13	GLN	C-N	5.68	1.41	1.33
1	4D	191	VAL	C-N	5.68	1.41	1.33
1	59	217	ALA	C-N	5.68	1.40	1.33
1	5M	114	GLN	CA-CB	5.68	1.62	1.53
1	65	120	HIS	C-N	5.68	1.39	1.33
1	6l	56	LEU	C-O	-5.68	1.17	1.24
1	6Z	100	ARG	CA-C	5.68	1.60	1.53
1	70	2	ILE	CA-CB	-5.68	1.47	1.54
1	7v	56	LEU	C-O	-5.68	1.17	1.24
1	7D	44	SER	N-CA	-5.68	1.39	1.46
1	7E	217	ALA	CA-C	5.68	1.60	1.52
1	7J	98	GLU	CA-C	5.68	1.58	1.53
1	7P	1	PRO	N-CA	5.68	1.55	1.47
1	8a	95	GLN	CA-C	5.68	1.59	1.52
1	8d	224	PRO	N-CA	-5.68	1.40	1.47
1	8u	218	CYS	CA-C	-5.68	1.45	1.53
1	8X	202	LEU	CA-C	5.68	1.60	1.52
1	9m	176	GLN	C-N	5.68	1.41	1.33
1	9D	153	ILE	CA-C	-5.68	1.46	1.53
1	9Z	58	THR	N-CA	5.68	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aa	9	GLN	CA-CB	5.68	1.63	1.53
1	af	12	HIS	CA-CB	5.68	1.60	1.53
1	aj	201	ILE	CA-C	5.68	1.59	1.52
1	au	99	PRO	C-N	5.68	1.41	1.33
1	bk	116	GLY	CA-C	-5.68	1.45	1.52
1	bJ	6	LEU	CB-CG	5.68	1.64	1.53
1	bS	146	SER	N-CA	5.68	1.52	1.45
1	bY	79	GLU	CA-C	5.68	1.60	1.52
1	cM	20	LEU	C-N	5.68	1.41	1.33
1	d1	7	GLN	N-CA	-5.68	1.38	1.46
1	di	165	VAL	CA-CB	5.68	1.61	1.54
1	1k	230	VAL	N-CA	-5.68	1.38	1.46
1	dp	194	ALA	N-CA	5.68	1.52	1.45
1	dF	75	GLU	N-CA	5.68	1.53	1.46
1	dO	78	ALA	N-CA	5.68	1.53	1.46
1	dU	49	PRO	CA-C	-5.68	1.44	1.52
1	dU	229	ARG	CA-C	-5.68	1.45	1.53
1	fh	61	GLY	N-CA	5.68	1.49	1.44
1	fH	121	ASN	C-O	5.68	1.31	1.24
1	d	194	ALA	CA-C	5.68	1.60	1.53
1	f	155	GLN	CA-CB	5.68	1.62	1.53
1	m	174	ALA	C-N	5.68	1.40	1.33
1	v	69	LEU	N-CA	-5.68	1.39	1.46
1	gy	16	SER	CA-CB	5.67	1.62	1.53
1	1G	53	ASN	CA-C	-5.67	1.45	1.52
1	h0	69	LEU	CA-C	-5.67	1.45	1.52
1	h5	174	ALA	N-CA	5.67	1.53	1.46
1	hw	213	GLU	N-CA	5.67	1.53	1.46
1	hC	58	THR	C-N	5.67	1.41	1.33
1	hJ	62	HIS	ND1-CE1	5.67	1.38	1.32
1	iC	167	ARG	CA-C	5.67	1.60	1.52
1	iE	85	PRO	CA-CB	5.67	1.59	1.53
1	jj	39	MET	CG-SD	5.67	1.95	1.80
1	jJ	196	PRO	N-CA	-5.67	1.40	1.47
1	jR	96	MET	N-CA	-5.67	1.38	1.46
1	jZ	79	GLU	C-N	5.67	1.41	1.34
1	ld	195	ASN	CA-CB	5.67	1.62	1.53
1	lz	51	ASP	CA-CB	5.67	1.62	1.53
1	lR	55	MET	CA-C	5.67	1.60	1.52
1	3o	154	ARG	C-O	-5.67	1.16	1.24
1	45	21	ASN	CA-C	5.67	1.60	1.52
1	45	142	VAL	CA-CB	5.67	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	48	1	PRO	N-CA	5.67	1.55	1.47
1	4f	177	ALA	CA-C	-5.67	1.45	1.52
1	4t	195	ASN	CA-CB	5.67	1.62	1.52
1	4z	201	ILE	CA-C	-5.67	1.46	1.52
1	5j	136	LEU	CA-CB	5.67	1.62	1.53
1	5u	187	GLU	N-CA	-5.67	1.39	1.46
1	5E	159	GLU	CA-CB	5.67	1.62	1.53
1	5M	149	SER	CA-C	-5.67	1.45	1.52
1	5Q	85	PRO	CA-C	5.67	1.59	1.52
1	6u	208	ALA	N-CA	-5.67	1.38	1.46
1	6M	147	PRO	CA-C	-5.67	1.44	1.52
1	6Z	14	ALA	C-N	5.67	1.40	1.33
1	7m	152	ASP	C-N	5.67	1.40	1.33
1	7E	111	LEU	CA-C	5.67	1.60	1.52
1	7P	69	LEU	N-CA	-5.67	1.39	1.46
1	7P	102	SER	CA-C	5.67	1.60	1.52
1	80	167	ARG	N-CA	5.67	1.53	1.46
1	80	201	ILE	N-CA	5.67	1.53	1.46
1	8i	111	LEU	C-N	5.67	1.41	1.33
1	8v	69	LEU	CA-C	-5.67	1.45	1.52
1	8y	12	HIS	ND1-CE1	5.67	1.38	1.32
1	8C	3	VAL	CA-C	-5.67	1.45	1.52
1	8C	9	GLN	CA-C	5.67	1.62	1.52
1	93	161	PHE	CA-CB	5.67	1.62	1.53
1	9E	104	ILE	CA-CB	5.67	1.62	1.54
1	a8	124	ILE	CA-CB	5.67	1.61	1.54
1	ah	199	LYS	CA-CB	5.67	1.62	1.53
1	aj	100	ARG	CD-NE	5.67	1.54	1.46
1	al	203	LYS	CA-CB	5.67	1.62	1.53
1	az	179	GLN	C-N	5.67	1.41	1.33
1	aJ	33	SER	N-CA	5.67	1.51	1.45
1	aR	175	GLU	C-N	5.67	1.40	1.33
1	b5	28	GLU	N-CA	-5.67	1.39	1.46
1	b5	186	THR	C-N	5.67	1.41	1.33
1	bK	171	THR	C-N	5.67	1.41	1.33
1	c5	195	ASN	N-CA	5.67	1.53	1.45
1	cc	188	THR	N-CA	-5.67	1.39	1.46
1	cj	56	LEU	CA-CB	5.67	1.62	1.53
1	cm	175	GLU	CA-C	-5.67	1.45	1.52
1	cB	159	GLU	CA-C	-5.67	1.47	1.53
1	dH	87	HIS	ND1-CE1	5.67	1.38	1.32
1	dN	4	GLN	C-N	-5.67	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dN	161	PHE	C-N	5.67	1.41	1.33
1	dS	98	GLU	CA-C	5.67	1.59	1.53
1	dW	167	ARG	CA-CB	5.67	1.62	1.53
1	ei	12	HIS	ND1-CE1	5.67	1.38	1.32
1	1q	213	GLU	CA-CB	5.67	1.62	1.53
1	em	226	HIS	CD2-NE2	5.67	1.44	1.37
1	eN	139	ASN	C-O	-5.67	1.17	1.24
1	fo	221	VAL	CA-CB	-5.67	1.46	1.54
1	fz	100	ARG	NE-CZ	-5.67	1.26	1.33
1	fH	86	VAL	CA-CB	-5.67	1.46	1.54
1	g1	215	MET	CA-CB	5.67	1.63	1.53
1	g6	207	PRO	CA-C	-5.67	1.43	1.52
1	s	192	GLN	C-O	5.67	1.30	1.24
1	9	147	PRO	CA-CB	-5.67	1.45	1.53
1	h7	90	PRO	CA-C	5.67	1.60	1.52
1	hE	93	PRO	CA-CB	5.67	1.61	1.53
1	hX	135	ILE	CA-CB	-5.67	1.47	1.54
1	it	157	PRO	N-CA	-5.67	1.40	1.47
1	ju	150	ILE	CA-CB	-5.67	1.47	1.54
1	jF	20	LEU	CA-CB	5.67	1.62	1.53
1	ki	103	ASP	C-N	-5.67	1.26	1.34
1	kn	51	ASP	CA-C	-5.67	1.45	1.52
1	kN	92	GLU	C-N	5.67	1.41	1.33
1	ld	95	GLN	C-N	5.67	1.41	1.33
1	2y	29	GLU	CA-C	5.67	1.60	1.52
1	2J	35	GLU	C-N	5.67	1.40	1.33
1	38	192	GLN	CA-C	5.67	1.60	1.52
1	4v	140	LYS	CA-C	5.67	1.60	1.52
1	4x	169	TYR	C-O	-5.67	1.17	1.24
1	51	95	GLN	CA-CB	5.67	1.61	1.53
1	5h	75	GLU	CA-CB	5.67	1.62	1.53
1	66	128	GLU	CA-CB	5.67	1.62	1.53
1	6P	190	LEU	C-N	5.67	1.41	1.33
1	7f	191	VAL	N-CA	-5.67	1.39	1.46
1	8x	181	VAL	N-CA	-5.67	1.40	1.46
1	90	222	GLY	CA-C	5.67	1.58	1.51
1	93	165	VAL	N-CA	5.67	1.53	1.46
1	ah	131	LYS	C-N	5.67	1.41	1.33
1	aO	111	LEU	CB-CG	5.67	1.64	1.53
1	b8	199	LYS	N-CA	-5.67	1.39	1.46
1	bp	194	ALA	CA-C	-5.67	1.45	1.52
1	bD	222	GLY	C-N	5.67	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c1	6	LEU	CA-CB	5.67	1.61	1.53
1	1c	149	SER	CA-CB	5.67	1.63	1.53
1	cb	187	GLU	C-N	5.67	1.41	1.33
1	dT	91	ILE	C-N	5.67	1.39	1.33
1	e2	192	GLN	CA-CB	5.67	1.62	1.53
1	e4	213	GLU	N-CA	5.67	1.53	1.46
1	ei	170	LYS	CA-C	5.67	1.60	1.52
1	ez	180	GLU	N-CA	-5.67	1.39	1.46
1	1s	18	ARG	CA-CB	5.67	1.62	1.53
1	fm	65	ALA	C-N	5.67	1.41	1.34
1	p	86	VAL	CA-C	-5.67	1.46	1.52
1	N	162	ARG	CZ-NH2	-5.67	1.26	1.33
1	gh	204	ALA	C-O	-5.67	1.17	1.24
1	gA	151	LEU	N-CA	5.67	1.53	1.46
1	gG	5	ASN	CA-C	5.67	1.59	1.52
1	gN	112	GLN	C-O	5.67	1.30	1.24
1	gT	164	TYR	N-CA	-5.67	1.39	1.46
1	gW	76	GLU	CA-CB	5.67	1.62	1.53
1	hG	74	ASN	C-N	5.67	1.41	1.33
1	hJ	31	ALA	CA-C	5.67	1.60	1.52
1	iv	61	GLY	CA-C	5.67	1.60	1.52
1	iK	61	GLY	CA-C	-5.67	1.43	1.51
1	iR	30	LYS	C-N	5.67	1.41	1.33
1	jJ	158	LYS	CA-C	5.67	1.59	1.52
1	jQ	97	ARG	CA-CB	5.67	1.62	1.53
1	jR	196	PRO	CA-C	5.67	1.60	1.52
1	jV	209	ALA	CA-CB	5.67	1.63	1.53
1	ka	99	PRO	CA-CB	5.67	1.60	1.53
1	kc	213	GLU	CA-CB	5.67	1.62	1.53
1	kq	129	ILE	CA-C	5.67	1.59	1.52
1	22	180	GLU	N-CA	5.67	1.53	1.46
1	kv	57	ASN	C-N	5.67	1.41	1.34
1	kP	12	HIS	CG-CD2	5.67	1.42	1.35
1	lj	159	GLU	C-N	5.67	1.40	1.33
1	lo	131	LYS	CA-CB	5.67	1.62	1.53
1	lD	218	CYS	CA-CB	5.67	1.63	1.53
1	lG	76	GLU	CA-C	5.67	1.60	1.52
1	2p	224	PRO	CA-C	5.67	1.60	1.52
1	2q	24	VAL	CA-CB	5.67	1.61	1.54
1	2J	19	THR	CA-C	-5.67	1.45	1.52
1	2Y	44	SER	C-N	5.67	1.41	1.33
1	2Z	60	GLY	N-CA	5.67	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3b	146	SER	CA-C	5.67	1.59	1.52
1	45	104	ILE	CA-CB	-5.67	1.47	1.54
1	47	94	GLY	N-CA	5.67	1.53	1.45
1	4k	12	HIS	ND1-CE1	5.67	1.38	1.32
1	4s	127	GLY	N-CA	5.67	1.53	1.45
1	4N	157	PRO	C-N	5.67	1.41	1.33
1	58	10	MET	CA-CB	5.67	1.61	1.53
1	59	38	PRO	CA-CB	-5.67	1.45	1.53
1	5s	55	MET	CA-CB	5.67	1.62	1.53
1	5z	36	VAL	CA-C	5.67	1.61	1.52
1	5F	207	PRO	CA-C	-5.67	1.44	1.52
1	5Y	219	GLN	CA-CB	5.67	1.63	1.53
1	6j	150	ILE	N-CA	5.67	1.53	1.46
1	6E	56	LEU	CA-CB	5.67	1.62	1.53
1	6M	123	PRO	CA-CB	-5.67	1.46	1.53
1	75	12	HIS	CA-CB	-5.67	1.45	1.53
1	7n	5	ASN	CA-C	5.67	1.60	1.52
1	7J	17	PRO	C-O	-5.67	1.16	1.24
1	8u	15	ILE	CA-CB	-5.67	1.48	1.54
1	8P	178	SER	CA-C	5.67	1.61	1.53
1	9f	131	LYS	N-CA	-5.67	1.39	1.46
1	9x	144	MET	N-CA	5.67	1.53	1.46
1	9z	12	HIS	N-CA	-5.67	1.39	1.46
1	9K	195	ASN	CA-CB	5.67	1.62	1.53
1	9T	69	LEU	N-CA	-5.67	1.39	1.46
1	9Y	128	GLU	N-CA	-5.67	1.39	1.46
1	b4	100	ARG	CZ-NH2	-5.67	1.26	1.33
1	bn	135	ILE	CA-C	5.67	1.60	1.52
1	bB	212	GLU	N-CA	5.67	1.53	1.46
1	19	217	ALA	C-N	5.67	1.41	1.33
1	c7	63	GLN	N-CA	5.67	1.53	1.46
1	ca	176	GLN	CA-CB	5.67	1.62	1.53
1	ch	186	THR	C-N	5.67	1.42	1.33
1	1f	159	GLU	CA-C	5.67	1.59	1.52
1	dc	130	TYR	CA-CB	5.67	1.62	1.53
1	dH	144	MET	CA-CB	5.67	1.62	1.53
1	dK	202	LEU	CA-CB	5.67	1.62	1.53
1	dL	111	LEU	CA-CB	5.67	1.62	1.53
1	dM	190	LEU	CA-CB	5.67	1.62	1.53
1	dS	162	ARG	CA-CB	5.67	1.62	1.53
1	e3	133	TRP	CZ2-CH2	5.67	1.48	1.37
1	1p	125	PRO	N-CA	5.67	1.51	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ej	60	GLY	C-N	5.67	1.41	1.33
1	et	44	SER	CA-C	5.67	1.61	1.52
1	eE	193	ASN	N-CA	5.67	1.52	1.46
1	eM	174	ALA	N-CA	5.67	1.53	1.46
1	f8	37	ILE	N-CA	-5.67	1.39	1.46
1	ff	168	PHE	N-CA	-5.67	1.39	1.46
1	ft	69	LEU	CA-C	5.67	1.60	1.52
1	ft	110	THR	CA-C	-5.67	1.45	1.52
1	fu	197	ASP	C-N	5.67	1.41	1.33
1	fv	199	LYS	C-O	-5.67	1.17	1.24
1	fy	103	ASP	N-CA	5.67	1.53	1.46
1	1y	120	HIS	CG-CD2	5.67	1.42	1.35
1	fK	144	MET	C-N	5.67	1.41	1.33
1	1	84	HIS	ND1-CE1	5.67	1.38	1.32
1	y	230	VAL	N-CA	5.67	1.53	1.46
1	M	213	GLU	CA-CB	5.67	1.62	1.53
1	6	123	PRO	N-CA	-5.67	1.40	1.47
1	gl	33	SER	CA-C	5.67	1.59	1.52
1	gD	123	PRO	N-CA	5.67	1.53	1.47
1	hf	90	PRO	CA-C	-5.67	1.45	1.52
1	hk	90	PRO	C-N	5.67	1.41	1.33
1	if	219	GLN	N-CA	-5.67	1.39	1.46
1	iB	81	ASP	CA-C	5.67	1.60	1.52
1	iR	173	ARG	CD-NE	5.67	1.54	1.46
1	kz	97	ARG	N-CA	5.67	1.53	1.46
1	kA	179	GLN	N-CA	-5.67	1.39	1.46
1	kQ	94	GLY	N-CA	5.67	1.53	1.45
1	l9	231	LEU	CB-CG	5.67	1.64	1.53
1	ll	194	ALA	CA-C	5.67	1.60	1.52
1	lx	1	PRO	N-CA	5.67	1.55	1.47
1	lA	229	ARG	CD-NE	5.67	1.54	1.46
1	lJ	56	LEU	N-CA	-5.67	1.39	1.46
1	4U	31	ALA	C-N	5.67	1.40	1.33
1	5c	32	PHE	CA-C	5.67	1.61	1.52
1	5m	87	HIS	CB-CG	5.67	1.58	1.50
1	6S	41	SER	CA-CB	5.67	1.62	1.53
1	6Z	226	HIS	CG-CD2	5.67	1.42	1.35
1	78	76	GLU	CA-CB	5.67	1.62	1.53
1	7i	101	GLY	C-N	5.67	1.41	1.33
1	7k	161	PHE	CA-C	5.67	1.60	1.52
1	7H	188	THR	CA-C	5.67	1.60	1.52
1	7I	96	MET	CA-C	-5.67	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9t	9	GLN	CA-C	5.67	1.60	1.52
1	9J	162	ARG	C-N	5.67	1.41	1.33
1	18	132	ARG	C-N	5.67	1.41	1.33
1	dC	173	ARG	C-N	5.67	1.42	1.33
1	dD	131	LYS	C-N	5.67	1.41	1.33
1	dO	114	GLN	CA-C	5.67	1.60	1.52
1	dS	193	ASN	CA-C	5.67	1.61	1.52
1	e9	32	PHE	N-CA	-5.67	1.38	1.46
1	ea	164	TYR	CZ-OH	5.67	1.50	1.38
1	et	185	MET	CA-C	5.67	1.60	1.52
1	eS	3	VAL	C-O	-5.67	1.17	1.24
1	fq	14	ALA	CA-C	5.67	1.60	1.52
1	fN	26	VAL	C-N	5.67	1.41	1.33
1	C	205	LEU	CA-C	5.67	1.60	1.52
1	gb	137	GLY	N-CA	5.67	1.52	1.45
1	gq	199	LYS	C-N	5.67	1.41	1.33
1	gL	100	ARG	CA-CB	5.67	1.61	1.53
1	gM	228	ALA	N-CA	5.67	1.53	1.46
1	gY	50	GLN	CA-CB	5.67	1.62	1.53
1	h1	21	ASN	CA-C	5.67	1.60	1.52
1	h2	134	ILE	CA-CB	-5.67	1.46	1.54
1	1H	229	ARG	CD-NE	5.67	1.54	1.46
1	hg	66	MET	CA-C	5.67	1.60	1.52
1	hD	9	GLN	C-O	-5.67	1.16	1.23
1	1L	12	HIS	ND1-CE1	5.67	1.38	1.32
1	hS	211	LEU	CA-C	-5.67	1.45	1.52
1	ip	168	PHE	CA-C	5.67	1.60	1.52
1	iy	82	ARG	CD-NE	5.67	1.54	1.46
1	iS	218	CYS	CA-C	-5.67	1.46	1.53
1	j3	207	PRO	C-N	5.67	1.41	1.33
1	ji	22	ALA	N-CA	-5.67	1.39	1.46
1	jr	162	ARG	NE-CZ	-5.67	1.26	1.33
1	jv	136	LEU	CA-CB	5.67	1.62	1.53
1	1W	80	TRP	N-CA	-5.67	1.39	1.46
1	jz	117	TRP	C-N	5.67	1.41	1.33
1	jM	110	THR	CA-C	-5.67	1.45	1.52
1	jU	221	VAL	CA-CB	5.67	1.61	1.54
1	k2	22	ALA	CA-CB	5.67	1.62	1.53
1	ke	167	ARG	CA-CB	5.67	1.62	1.53
1	kg	194	ALA	C-N	5.67	1.41	1.33
1	ku	126	VAL	CA-CB	5.67	1.61	1.54
1	ly	87	HIS	CB-CG	5.67	1.58	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lO	53	ASN	CA-C	5.67	1.60	1.52
1	2u	156	GLY	C-N	-5.67	1.26	1.34
1	2x	86	VAL	CA-C	-5.67	1.44	1.52
1	2X	175	GLU	N-CA	-5.67	1.38	1.46
1	3x	154	ARG	CD-NE	5.67	1.54	1.46
1	4n	45	GLU	CA-CB	5.67	1.61	1.53
1	4t	219	GLN	CA-C	5.67	1.60	1.52
1	4J	188	THR	C-N	5.67	1.41	1.33
1	5a	26	VAL	CA-C	-5.67	1.44	1.52
1	5o	2	ILE	C-O	5.67	1.30	1.24
1	5I	182	LYS	CA-CB	5.67	1.62	1.53
1	6B	220	GLY	C-N	5.67	1.41	1.33
1	6K	82	ARG	CD-NE	5.67	1.54	1.46
1	6N	211	LEU	N-CA	-5.67	1.38	1.46
1	6P	128	GLU	CA-C	-5.67	1.45	1.52
1	6T	84	HIS	ND1-CE1	5.67	1.38	1.32
1	7j	200	THR	N-CA	-5.67	1.39	1.46
1	7r	21	ASN	C-N	5.67	1.41	1.33
1	7D	123	PRO	N-CA	5.67	1.54	1.47
1	7H	70	LYS	C-O	-5.67	1.17	1.24
1	7N	212	GLU	C-N	5.67	1.41	1.33
1	7P	41	SER	C-N	5.67	1.41	1.33
1	81	153	ILE	CA-C	5.67	1.58	1.52
1	8H	33	SER	CA-CB	5.67	1.62	1.53
1	8Y	77	ALA	CA-C	5.67	1.60	1.52
1	99	33	SER	CA-CB	5.67	1.61	1.53
1	9a	183	ASN	CA-C	5.67	1.60	1.52
1	9M	4	GLN	CA-CB	5.67	1.61	1.53
1	9P	92	GLU	CA-CB	5.67	1.62	1.53
1	a0	219	GLN	C-N	5.67	1.41	1.33
1	a3	147	PRO	C-N	5.67	1.41	1.33
1	am	78	ALA	CA-C	-5.67	1.45	1.52
1	an	194	ALA	CA-C	5.67	1.61	1.53
1	aA	80	TRP	CA-CB	5.67	1.62	1.53
1	aG	116	GLY	C-O	-5.67	1.17	1.23
1	b6	123	PRO	CA-C	-5.67	1.45	1.52
1	17	4	GLN	C-N	5.67	1.40	1.33
1	bo	36	VAL	CA-C	-5.67	1.43	1.52
1	bp	6	LEU	N-CA	5.67	1.53	1.46
1	bK	87	HIS	CG-ND1	-5.67	1.32	1.38
1	1a	120	HIS	CD2-NE2	5.67	1.44	1.37
1	bT	36	VAL	C-N	5.67	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cb	115	ILE	C-N	5.67	1.40	1.33
1	cr	83	LEU	C-N	5.67	1.38	1.33
1	cB	177	ALA	CA-CB	5.67	1.63	1.53
1	1h	123	PRO	C-N	5.67	1.37	1.32
1	1h	171	THR	CA-CB	5.67	1.62	1.53
1	cZ	26	VAL	CA-C	-5.67	1.45	1.52
1	dd	62	HIS	ND1-CE1	-5.67	1.26	1.32
1	ej	18	ARG	N-CA	5.67	1.53	1.46
1	ew	15	ILE	CA-CB	5.67	1.60	1.54
1	ey	26	VAL	CA-C	5.67	1.59	1.52
1	eN	149	SER	N-CA	-5.67	1.39	1.46
1	eP	229	ARG	CD-NE	5.67	1.54	1.46
1	eR	204	ALA	CA-C	-5.67	1.45	1.52
1	fd	30	LYS	CA-C	5.67	1.59	1.52
1	fr	220	GLY	CA-C	-5.67	1.43	1.51
1	ft	67	GLN	N-CA	-5.67	1.39	1.46
1	fu	178	SER	CA-C	5.67	1.59	1.52
1	fz	211	LEU	CA-C	-5.67	1.44	1.52
1	fG	196	PRO	CA-C	-5.67	1.44	1.52
1	1z	112	GLN	C-N	5.67	1.42	1.33
1	fS	82	ARG	C-N	5.67	1.41	1.33
1	m	125	PRO	C-N	5.67	1.40	1.33
1	z	136	LEU	CA-C	5.67	1.60	1.52
1	6	185	MET	C-N	5.67	1.42	1.33
1	8	134	ILE	CA-C	-5.67	1.45	1.52
1	g9	68	MET	C-O	-5.67	1.17	1.24
1	1C	61	GLY	CA-C	-5.67	1.45	1.51
1	1C	171	THR	CA-CB	5.67	1.62	1.53
1	gC	8	GLY	CA-C	-5.67	1.46	1.52
1	h0	191	VAL	CA-C	-5.67	1.45	1.52
1	h9	77	ALA	CA-CB	5.67	1.62	1.53
1	hf	156	GLY	N-CA	-5.67	1.36	1.44
1	1I	120	HIS	ND1-CE1	5.67	1.38	1.32
1	i2	130	TYR	N-CA	-5.67	1.39	1.46
1	i9	54	THR	C-N	5.67	1.40	1.33
1	iM	63	GLN	CA-C	5.67	1.60	1.52
1	1S	83	LEU	C-N	5.67	1.39	1.33
1	j4	91	ILE	CA-C	5.67	1.59	1.52
1	jv	28	GLU	CA-C	5.67	1.60	1.52
1	jH	141	ILE	CA-CB	-5.67	1.47	1.54
1	jI	162	ARG	CD-NE	5.67	1.54	1.46
1	k8	152	ASP	CA-C	5.67	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kj	87	HIS	N-CA	5.67	1.53	1.46
1	kq	68	MET	N-CA	-5.67	1.39	1.46
1	kC	185	MET	CA-C	5.67	1.59	1.52
1	23	4	GLN	C-N	5.67	1.41	1.33
1	kF	120	HIS	CD2-NE2	5.67	1.44	1.37
1	kG	146	SER	CA-CB	5.67	1.61	1.53
1	kW	8	GLY	CA-C	-5.67	1.43	1.51
1	27	186	THR	N-CA	5.67	1.53	1.46
1	lB	133	TRP	C-O	-5.67	1.17	1.24
1	29	25	LYS	C-N	5.67	1.41	1.33
1	lN	54	THR	CA-CB	5.67	1.62	1.53
1	2g	37	ILE	CA-C	5.67	1.57	1.52
1	2k	24	VAL	CA-CB	5.67	1.61	1.54
1	2N	143	ARG	CD-NE	5.67	1.54	1.46
1	2X	7	GLN	CA-C	-5.67	1.45	1.52
1	2X	217	ALA	CA-C	-5.67	1.45	1.53
1	2Y	158	LYS	CA-CB	5.67	1.62	1.53
1	31	199	LYS	CA-C	-5.67	1.45	1.52
1	33	230	VAL	N-CA	-5.67	1.39	1.46
1	3I	231	LEU	CB-CG	5.67	1.64	1.53
1	3V	187	GLU	C-N	5.67	1.41	1.33
1	4t	208	ALA	N-CA	5.67	1.53	1.46
1	4B	79	GLU	C-N	-5.67	1.26	1.33
1	55	95	GLN	CA-CB	5.67	1.62	1.53
1	5A	57	ASN	C-N	5.67	1.41	1.34
1	6b	62	HIS	CE1-NE2	5.67	1.38	1.32
1	6d	226	HIS	CA-CB	5.67	1.62	1.53
1	73	224	PRO	N-CA	-5.67	1.40	1.47
1	7e	68	MET	CA-C	5.67	1.60	1.52
1	7C	91	ILE	C-N	5.67	1.43	1.33
1	7U	15	ILE	CA-CB	-5.67	1.47	1.54
1	85	49	PRO	CA-C	5.67	1.60	1.52
1	8a	35	GLU	C-N	5.67	1.40	1.33
1	8S	225	GLY	CA-C	-5.67	1.43	1.51
1	94	110	THR	N-CA	5.67	1.52	1.45
1	9G	161	PHE	C-O	-5.67	1.17	1.24
1	as	155	GLN	C-N	5.67	1.42	1.33
1	aX	24	VAL	CA-CB	-5.67	1.47	1.54
1	15	226	HIS	ND1-CE1	5.67	1.38	1.32
1	bc	68	MET	CA-CB	5.67	1.62	1.53
1	bl	4	GLN	N-CA	5.67	1.53	1.46
1	by	172	LEU	CA-C	5.67	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	12	HIS	ND1-CE1	5.67	1.38	1.32
1	ce	188	THR	C-N	5.67	1.41	1.33
1	cf	160	PRO	C-N	5.67	1.41	1.33
1	ch	86	VAL	CA-C	5.67	1.59	1.52
1	ch	160	PRO	CA-C	-5.67	1.44	1.52
1	cw	45	GLU	CA-C	5.67	1.60	1.52
1	cz	187	GLU	CA-C	-5.67	1.45	1.52
1	cG	82	ARG	CD-NE	5.67	1.54	1.46
1	cG	112	GLN	CA-CB	5.67	1.62	1.53
1	1g	81	ASP	C-N	5.67	1.41	1.33
1	cK	158	LYS	N-CA	-5.67	1.38	1.46
1	db	62	HIS	CG-CD2	5.67	1.42	1.35
1	dM	128	GLU	CA-C	5.67	1.60	1.52
1	dV	117	TRP	CZ2-CH2	5.67	1.48	1.37
1	dY	100	ARG	CD-NE	5.67	1.54	1.46
1	1o	142	VAL	CA-C	-5.67	1.45	1.52
1	eL	212	GLU	N-CA	-5.67	1.39	1.46
1	fh	154	ARG	N-CA	5.67	1.53	1.45
1	fD	229	ARG	CD-NE	5.67	1.54	1.46
1	fZ	84	HIS	CA-C	5.67	1.60	1.52
1	n	230	VAL	CA-C	-5.67	1.46	1.52
1	q	65	ALA	CA-C	5.67	1.60	1.52
1	y	125	PRO	CA-CB	5.67	1.57	1.53
1	T	224	PRO	N-CA	-5.67	1.37	1.47
1	gI	72	THR	C-O	-5.67	1.17	1.24
1	gW	39	MET	N-CA	5.67	1.53	1.46
1	h5	172	LEU	CA-C	5.67	1.60	1.52
1	h9	12	HIS	ND1-CE1	5.67	1.38	1.32
1	i0	36	VAL	CA-C	5.67	1.59	1.52
1	iw	127	GLY	CA-C	5.67	1.58	1.52
1	jv	157	PRO	CA-C	-5.67	1.44	1.52
1	kc	104	ILE	C-N	5.67	1.42	1.33
1	kk	28	GLU	C-N	5.67	1.41	1.33
1	22	45	GLU	CA-C	5.67	1.60	1.52
1	22	214	MET	N-CA	-5.67	1.39	1.46
1	l9	101	GLY	CA-C	5.67	1.58	1.52
1	2b	183	ASN	CA-CB	5.67	1.62	1.53
1	2f	18	ARG	C-O	5.67	1.30	1.24
1	2x	22	ALA	CA-C	5.67	1.60	1.52
1	2x	141	ILE	CA-C	5.67	1.59	1.52
1	2F	28	GLU	CA-C	-5.67	1.47	1.53
1	3j	31	ALA	CA-CB	5.67	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3v	212	GLU	C-N	5.67	1.41	1.33
1	3y	58	THR	N-CA	5.67	1.53	1.46
1	3T	214	MET	CA-CB	5.67	1.62	1.53
1	4y	25	LYS	C-N	5.67	1.41	1.33
1	4R	179	GLN	C-N	5.67	1.41	1.33
1	58	34	PRO	C-O	-5.67	1.16	1.24
1	5g	95	GLN	N-CA	-5.67	1.39	1.46
1	5n	38	PRO	C-O	5.67	1.30	1.24
1	5n	227	LYS	CA-CB	5.67	1.63	1.53
1	5K	162	ARG	CD-NE	5.67	1.54	1.46
1	60	148	THR	CA-C	-5.67	1.45	1.52
1	64	120	HIS	ND1-CE1	5.67	1.38	1.32
1	6b	144	MET	C-N	5.67	1.40	1.33
1	6g	161	PHE	C-N	5.67	1.41	1.34
1	6N	162	ARG	CA-C	-5.67	1.45	1.52
1	6P	124	ILE	N-CA	5.67	1.53	1.46
1	6Q	173	ARG	CA-C	5.67	1.60	1.52
1	7e	164	TYR	CA-CB	5.67	1.62	1.53
1	7h	229	ARG	CA-CB	5.67	1.63	1.53
1	7x	117	TRP	CA-CB	5.67	1.62	1.53
1	7F	161	PHE	N-CA	-5.67	1.39	1.46
1	8b	124	ILE	CA-CB	-5.67	1.49	1.54
1	8v	57	ASN	C-N	5.67	1.42	1.33
1	8L	155	GLN	CA-C	-5.67	1.45	1.52
1	9c	108	THR	CA-C	-5.67	1.45	1.52
1	9h	120	HIS	CE1-NE2	-5.67	1.26	1.32
1	9B	129	ILE	CA-C	5.67	1.59	1.52
1	9I	166	ASP	CA-C	5.67	1.60	1.52
1	ai	52	LEU	CA-C	5.67	1.60	1.52
1	as	65	ALA	C-N	5.67	1.41	1.34
1	as	114	GLN	CA-CB	5.67	1.62	1.53
1	1d	145	TYR	CB-CG	-5.67	1.39	1.51
1	cg	158	LYS	CA-C	5.67	1.60	1.52
1	cM	195	ASN	N-CA	5.67	1.53	1.45
1	dg	172	LEU	N-CA	-5.67	1.39	1.46
1	dk	151	LEU	CA-C	5.67	1.60	1.52
1	1l	174	ALA	CA-C	5.67	1.60	1.52
1	dK	73	ILE	C-O	-5.67	1.17	1.24
1	ev	151	LEU	C-N	5.67	1.41	1.33
1	B	13	GLN	CA-C	5.67	1.59	1.52
1	D	181	VAL	N-CA	-5.67	1.39	1.46
1	g8	11	VAL	CA-CB	5.66	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gh	30	LYS	CA-C	5.66	1.59	1.52
1	gr	33	SER	C-N	5.66	1.41	1.34
1	gR	100	ARG	C-N	5.66	1.40	1.33
1	h3	92	GLU	N-CA	5.66	1.53	1.46
1	h6	41	SER	CA-CB	5.66	1.62	1.53
1	hd	69	LEU	CA-C	5.66	1.60	1.52
1	hg	1	PRO	N-CD	5.66	1.55	1.47
1	hn	12	HIS	C-N	5.66	1.40	1.33
1	hD	194	ALA	C-O	5.66	1.30	1.24
1	1M	130	TYR	CA-C	5.66	1.60	1.52
1	hY	2	ILE	C-N	5.66	1.40	1.33
1	i5	9	GLN	CA-C	5.66	1.60	1.53
1	1Q	80	TRP	CA-CB	5.66	1.62	1.53
1	iz	26	VAL	C-N	5.66	1.41	1.33
1	jn	51	ASP	CA-CB	5.66	1.62	1.53
1	jQ	154	ARG	CD-NE	5.66	1.54	1.46
1	ku	132	ARG	CA-C	-5.66	1.45	1.52
1	kX	60	GLY	N-CA	-5.66	1.37	1.45
1	l5	18	ARG	CA-C	-5.66	1.45	1.52
1	lh	146	SER	N-CA	5.66	1.52	1.45
1	ll	154	ARG	CD-NE	5.66	1.54	1.46
1	29	137	GLY	C-N	5.66	1.42	1.33
1	lQ	181	VAL	N-CA	5.66	1.53	1.46
1	2p	18	ARG	CZ-NH2	-5.66	1.26	1.33
1	2t	156	GLY	N-CA	-5.66	1.36	1.44
1	2y	89	GLY	N-CA	5.66	1.52	1.44
1	30	115	ILE	CA-CB	-5.66	1.47	1.54
1	35	18	ARG	CD-NE	5.66	1.54	1.46
1	3u	226	HIS	ND1-CE1	5.66	1.38	1.32
1	3K	2	ILE	CA-C	5.66	1.59	1.52
1	44	62	HIS	CA-CB	5.66	1.62	1.53
1	4f	108	THR	CA-C	-5.66	1.45	1.52
1	4x	59	VAL	C-O	-5.66	1.18	1.24
1	4K	115	ILE	C-N	5.66	1.41	1.33
1	5i	195	ASN	CA-C	5.66	1.58	1.53
1	5m	9	GLN	N-CA	5.66	1.53	1.46
1	5P	49	PRO	N-CA	5.66	1.55	1.47
1	5R	66	MET	C-O	-5.66	1.17	1.24
1	6D	25	LYS	CA-CB	5.66	1.62	1.53
1	6Q	130	TYR	CA-C	5.66	1.60	1.52
1	6T	104	ILE	CA-C	5.66	1.60	1.52
1	6Y	80	TRP	NE1-CE2	5.66	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7f	114	GLN	CA-C	5.66	1.60	1.52
1	7f	176	GLN	N-CA	-5.66	1.39	1.46
1	7s	183	ASN	CA-C	5.66	1.60	1.52
1	8l	201	ILE	C-O	-5.66	1.17	1.24
1	8F	7	GLN	C-N	5.66	1.40	1.33
1	8R	87	HIS	CG-CD2	5.66	1.42	1.35
1	8V	69	LEU	CA-CB	5.66	1.62	1.53
1	93	28	GLU	CA-CB	5.66	1.62	1.53
1	97	62	HIS	CG-CD2	5.66	1.42	1.35
1	9j	72	THR	C-N	5.66	1.41	1.33
1	9m	60	GLY	CA-C	-5.66	1.43	1.51
1	9w	134	ILE	C-N	5.66	1.41	1.33
1	9N	18	ARG	CA-CB	5.66	1.62	1.53
1	9S	11	VAL	CA-CB	-5.66	1.47	1.53
1	9S	101	GLY	N-CA	5.66	1.53	1.45
1	9S	169	TYR	CA-CB	5.66	1.62	1.53
1	a7	116	GLY	C-N	5.66	1.41	1.33
1	ab	86	VAL	C-O	-5.66	1.18	1.24
1	aE	108	THR	N-CA	5.66	1.51	1.46
1	aG	44	SER	C-N	5.66	1.41	1.33
1	aP	76	GLU	C-N	5.66	1.41	1.33
1	15	131	LYS	CA-C	-5.66	1.45	1.52
1	b5	95	GLN	CA-CB	5.66	1.64	1.53
1	bD	198	CYS	C-N	5.66	1.41	1.33
1	c0	55	MET	CA-C	5.66	1.60	1.52
1	cf	20	LEU	CA-CB	5.66	1.62	1.53
1	cf	125	PRO	C-N	5.66	1.41	1.33
1	cQ	12	HIS	N-CA	5.66	1.52	1.45
1	dh	194	ALA	CA-C	-5.66	1.45	1.52
1	dn	83	LEU	CA-C	-5.66	1.45	1.52
1	dD	153	ILE	N-CA	5.66	1.53	1.46
1	dK	12	HIS	CB-CG	5.66	1.58	1.50
1	ea	62	HIS	CD2-NE2	-5.66	1.31	1.37
1	ep	39	MET	CA-CB	5.66	1.62	1.53
1	eA	2	ILE	N-CA	5.66	1.52	1.46
1	fv	74	ASN	CA-C	-5.66	1.45	1.52
1	fT	83	LEU	N-CA	-5.66	1.39	1.46
1	fZ	109	SER	CA-C	5.66	1.59	1.52
1	1B	178	SER	C-N	5.66	1.41	1.33
1	0	81	ASP	C-N	5.66	1.41	1.33
1	p	94	GLY	CA-C	-5.66	1.43	1.51
1	M	132	ARG	CD-NE	5.66	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gf	92	GLU	N-CA	5.66	1.53	1.45
1	he	219	GLN	CA-C	5.66	1.59	1.53
1	i5	214	MET	N-CA	-5.66	1.39	1.46
1	1O	227	LYS	CA-C	-5.66	1.44	1.52
1	iy	146	SER	CA-C	5.66	1.59	1.52
1	js	95	GLN	C-N	5.66	1.40	1.33
1	ke	21	ASN	C-N	5.66	1.41	1.33
1	ki	81	ASP	C-O	-5.66	1.17	1.24
1	ki	103	ASP	N-CA	5.66	1.53	1.46
1	22	178	SER	CA-CB	5.66	1.63	1.53
1	kO	212	GLU	C-N	5.66	1.41	1.33
1	kS	162	ARG	C-N	5.66	1.41	1.33
1	l0	218	CYS	CA-CB	5.66	1.63	1.53
1	2a	185	MET	CA-CB	5.66	1.62	1.53
1	2b	177	ALA	C-N	5.66	1.40	1.33
1	3j	151	LEU	CA-CB	5.66	1.62	1.53
1	4j	1	PRO	N-CA	5.66	1.55	1.47
1	4m	180	GLU	CA-CB	5.66	1.62	1.53
1	5h	123	PRO	C-N	5.66	1.38	1.33
1	5j	78	ALA	CA-C	-5.66	1.45	1.52
1	6w	195	ASN	CA-CB	5.66	1.61	1.53
1	71	203	LYS	C-N	5.66	1.42	1.33
1	8h	181	VAL	CA-CB	-5.66	1.47	1.54
1	8t	118	MET	CA-C	5.66	1.60	1.52
1	a3	63	GLN	N-CA	5.66	1.53	1.46
1	a3	174	ALA	N-CA	-5.66	1.39	1.46
1	ao	189	LEU	N-CA	-5.66	1.39	1.46
1	aA	81	ASP	N-CA	-5.66	1.39	1.46
1	aE	137	GLY	CA-C	5.66	1.58	1.51
1	br	132	ARG	CZ-NH2	-5.66	1.26	1.33
1	18	21	ASN	CA-C	5.66	1.60	1.52
1	1a	167	ARG	CD-NE	5.66	1.54	1.46
1	cI	24	VAL	CA-C	-5.66	1.45	1.52
1	dL	7	GLN	C-N	5.66	1.42	1.33
1	1n	118	MET	CA-CB	5.66	1.62	1.53
1	e0	173	ARG	CA-C	5.66	1.60	1.52
1	e9	75	GLU	CA-CB	5.66	1.62	1.53
1	eT	227	LYS	CA-CB	5.66	1.62	1.53
1	fN	147	PRO	CA-C	5.66	1.59	1.52
1	gh	209	ALA	CA-CB	5.66	1.61	1.53
1	gx	91	ILE	CA-CB	-5.66	1.46	1.54
1	gA	130	TYR	CA-CB	5.66	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gC	83	LEU	C-N	5.66	1.39	1.33
1	h3	173	ARG	CA-C	5.66	1.60	1.52
1	h7	168	PHE	C-N	5.66	1.41	1.33
1	h8	212	GLU	C-O	-5.66	1.17	1.24
1	hm	15	ILE	CA-C	5.66	1.61	1.52
1	hy	201	ILE	CA-CB	-5.66	1.47	1.54
1	hJ	199	LYS	N-CA	-5.66	1.38	1.46
1	hJ	226	HIS	ND1-CE1	5.66	1.38	1.32
1	i6	128	GLU	CA-C	5.66	1.60	1.52
1	ip	163	ASP	CA-C	5.66	1.60	1.52
1	1Q	133	TRP	C-N	-5.66	1.26	1.33
1	iF	132	ARG	CA-C	5.66	1.60	1.52
1	iV	127	GLY	CA-C	5.66	1.58	1.52
1	j9	80	TRP	C-N	5.66	1.41	1.33
1	jr	53	ASN	N-CA	-5.66	1.39	1.46
1	jG	70	LYS	C-N	5.66	1.41	1.33
1	k0	73	ILE	CA-C	-5.66	1.46	1.52
1	20	200	THR	N-CA	5.66	1.53	1.46
1	kR	156	GLY	C-N	-5.66	1.27	1.34
1	l9	96	MET	N-CA	-5.66	1.39	1.46
1	lh	214	MET	C-N	5.66	1.41	1.34
1	27	132	ARG	CD-NE	5.66	1.54	1.46
1	lF	37	ILE	C-N	5.66	1.40	1.34
1	lH	36	VAL	CA-C	-5.66	1.45	1.52
1	lN	87	HIS	CB-CG	5.66	1.58	1.50
1	2e	191	VAL	C-N	5.66	1.41	1.33
1	2W	101	GLY	N-CA	5.66	1.53	1.45
1	3f	202	LEU	CA-C	-5.66	1.45	1.52
1	3O	178	SER	CA-CB	5.66	1.63	1.53
1	3X	56	LEU	N-CA	5.66	1.53	1.46
1	4a	86	VAL	C-N	5.66	1.41	1.33
1	4m	226	HIS	ND1-CE1	5.66	1.38	1.32
1	4q	176	GLN	C-N	5.66	1.41	1.33
1	4D	19	THR	CA-C	-5.66	1.45	1.52
1	5c	84	HIS	CB-CG	-5.66	1.42	1.50
1	5f	146	SER	CA-C	5.66	1.58	1.53
1	5q	130	TYR	CA-C	-5.66	1.45	1.52
1	5B	90	PRO	N-CA	-5.66	1.40	1.47
1	5D	138	LEU	CA-C	-5.66	1.45	1.52
1	5J	55	MET	CA-C	5.66	1.60	1.52
1	5M	27	VAL	CA-C	5.66	1.61	1.52
1	6p	9	GLN	N-CA	-5.66	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6w	147	PRO	CA-CB	-5.66	1.45	1.53
1	6Y	73	ILE	C-O	-5.66	1.17	1.24
1	73	12	HIS	ND1-CE1	5.66	1.38	1.32
1	74	98	GLU	CA-C	5.66	1.58	1.53
1	76	173	ARG	NE-CZ	5.66	1.39	1.33
1	7g	136	LEU	C-N	5.66	1.40	1.33
1	7o	186	THR	C-O	-5.66	1.17	1.24
1	7F	82	ARG	CZ-NH1	-5.66	1.24	1.32
1	7G	115	ILE	CA-C	-5.66	1.45	1.52
1	7R	84	HIS	CA-C	-5.66	1.45	1.52
1	7S	224	PRO	N-CD	5.66	1.55	1.47
1	7T	36	VAL	CA-C	5.66	1.59	1.52
1	7Y	71	GLU	CA-C	-5.66	1.45	1.52
1	86	118	MET	CA-CB	5.66	1.62	1.53
1	8e	16	SER	CA-CB	5.66	1.61	1.53
1	8G	167	ARG	CA-C	-5.66	1.45	1.52
1	8K	26	VAL	CA-CB	-5.66	1.47	1.54
1	8S	169	TYR	CA-CB	5.66	1.62	1.53
1	98	182	LYS	CA-C	-5.66	1.45	1.52
1	9q	104	ILE	CA-C	-5.66	1.46	1.52
1	9q	171	THR	N-CA	5.66	1.53	1.46
1	9r	44	SER	C-N	5.66	1.41	1.33
1	a1	228	ALA	CA-C	5.66	1.60	1.52
1	a2	12	HIS	CG-ND1	-5.66	1.32	1.38
1	ar	1	PRO	N-CA	5.66	1.55	1.47
1	aB	82	ARG	C-N	5.66	1.41	1.33
1	bm	157	PRO	CA-CB	-5.66	1.45	1.53
1	bV	172	LEU	CA-CB	-5.66	1.44	1.53
1	1c	172	LEU	N-CA	-5.66	1.39	1.46
1	cb	115	ILE	CA-C	5.66	1.61	1.52
1	ci	46	GLY	CA-C	-5.66	1.43	1.51
1	ck	39	MET	CA-CB	5.66	1.62	1.53
1	cy	82	ARG	CD-NE	5.66	1.54	1.46
1	dd	154	ARG	CA-CB	5.66	1.63	1.53
1	dp	140	LYS	N-CA	-5.66	1.39	1.46
1	dR	173	ARG	C-N	5.66	1.41	1.33
1	ed	39	MET	CA-CB	5.66	1.62	1.53
1	eg	208	ALA	C-N	5.66	1.40	1.33
1	ek	30	LYS	C-N	5.66	1.39	1.33
1	eU	183	ASN	CA-C	5.66	1.60	1.52
1	eW	32	PHE	CA-C	5.66	1.59	1.52
1	eY	48	THR	CA-C	-5.66	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eY	92	GLU	N-CA	5.66	1.53	1.45
1	f8	84	HIS	ND1-CE1	5.66	1.38	1.32
1	fn	87	HIS	CA-C	-5.66	1.46	1.53
1	1x	136	LEU	CA-C	-5.66	1.45	1.52
1	fw	18	ARG	CD-NE	5.66	1.54	1.46
1	fy	126	VAL	CA-C	5.66	1.60	1.52
1	j	215	MET	N-CA	-5.66	1.39	1.46
1	C	162	ARG	CA-C	5.66	1.60	1.52
1	J	98	GLU	CA-C	5.66	1.59	1.52
1	ge	5	ASN	C-N	5.66	1.41	1.33
1	gh	48	THR	N-CA	5.66	1.52	1.46
1	gz	147	PRO	N-CA	5.66	1.54	1.47
1	h1	118	MET	N-CA	-5.66	1.38	1.46
1	h6	84	HIS	N-CA	-5.66	1.39	1.46
1	hj	179	GLN	C-N	5.66	1.41	1.33
1	hq	18	ARG	CA-CB	5.66	1.63	1.53
1	i1	50	GLN	CA-C	5.66	1.60	1.52
1	i9	84	HIS	CA-CB	5.66	1.59	1.53
1	ih	15	ILE	CA-C	-5.66	1.45	1.52
1	iz	159	GLU	C-N	-5.66	1.26	1.33
1	iN	7	GLN	CA-C	-5.66	1.45	1.52
1	jg	87	HIS	CG-ND1	5.66	1.44	1.38
1	jv	43	LEU	CA-CB	5.66	1.62	1.53
1	1X	137	GLY	N-CA	5.66	1.52	1.45
1	kv	120	HIS	ND1-CE1	5.66	1.38	1.32
1	kN	185	MET	C-N	5.66	1.41	1.33
1	ld	130	TYR	N-CA	-5.66	1.39	1.46
1	lf	114	GLN	C-N	5.66	1.41	1.33
1	ls	184	TRP	NE1-CE2	-5.66	1.31	1.37
1	ly	189	LEU	C-N	5.66	1.41	1.33
1	lC	82	ARG	CD-NE	5.66	1.54	1.46
1	lG	69	LEU	N-CA	-5.66	1.39	1.46
1	lH	215	MET	CA-CB	5.66	1.62	1.53
1	2a	217	ALA	CA-C	5.66	1.59	1.52
1	2j	11	VAL	CA-CB	-5.66	1.45	1.54
1	2k	161	PHE	C-N	5.66	1.41	1.33
1	30	32	PHE	CA-CB	5.66	1.60	1.53
1	3c	58	THR	CA-C	-5.66	1.45	1.52
1	3l	124	ILE	CA-C	5.66	1.58	1.52
1	3t	153	ILE	N-CA	-5.66	1.39	1.46
1	3C	64	ALA	C-N	5.66	1.41	1.33
1	3J	44	SER	CA-CB	5.66	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	46	97	ARG	N-CA	-5.66	1.38	1.45
1	4u	59	VAL	CA-C	5.66	1.60	1.52
1	4u	137	GLY	N-CA	-5.66	1.38	1.45
1	5t	228	ALA	C-N	-5.66	1.26	1.33
1	5F	190	LEU	C-N	5.66	1.41	1.33
1	5G	97	ARG	NE-CZ	-5.66	1.26	1.33
1	5X	101	GLY	C-O	5.66	1.30	1.23
1	5Z	131	LYS	C-N	5.66	1.41	1.34
1	65	68	MET	C-O	-5.66	1.17	1.24
1	6b	104	ILE	C-N	5.66	1.41	1.33
1	6w	216	THR	CA-C	5.66	1.60	1.52
1	6Q	111	LEU	CA-C	5.66	1.60	1.52
1	73	170	LYS	C-N	5.66	1.41	1.34
1	87	201	ILE	CA-CB	-5.66	1.48	1.54
1	8o	170	LYS	CA-C	5.66	1.60	1.52
1	8E	23	TRP	C-N	-5.66	1.26	1.33
1	94	80	TRP	NE1-CE2	-5.66	1.31	1.37
1	9k	45	GLU	N-CA	-5.66	1.38	1.46
1	9r	68	MET	CA-C	5.66	1.60	1.52
1	9t	112	GLN	C-N	5.66	1.41	1.33
1	a8	131	LYS	CA-C	-5.66	1.45	1.52
1	aC	162	ARG	CD-NE	5.66	1.54	1.46
1	13	190	LEU	CA-CB	5.66	1.62	1.53
1	aP	84	HIS	ND1-CE1	5.66	1.38	1.32
1	bh	109	SER	N-CA	5.66	1.53	1.45
1	bn	213	GLU	C-N	5.66	1.41	1.34
1	br	100	ARG	C-N	5.66	1.41	1.33
1	bD	23	TRP	NE1-CE2	-5.66	1.31	1.37
1	bN	109	SER	CA-C	-5.66	1.46	1.52
1	bZ	47	ALA	CA-C	-5.66	1.45	1.52
1	cb	117	TRP	N-CA	5.66	1.53	1.46
1	cx	150	ILE	C-N	5.66	1.41	1.33
1	cX	141	ILE	CA-C	5.66	1.60	1.52
1	d0	40	PHE	CA-CB	5.66	1.62	1.53
1	dc	188	THR	C-N	5.66	1.41	1.33
1	dg	114	GLN	CA-CB	5.66	1.62	1.53
1	du	138	LEU	CA-CB	5.66	1.62	1.53
1	dF	38	PRO	C-N	5.66	1.41	1.33
1	dI	36	VAL	N-CA	5.66	1.53	1.46
1	dI	89	GLY	N-CA	5.66	1.50	1.43
1	dM	17	PRO	CA-CB	-5.66	1.45	1.53
1	dN	10	MET	N-CA	5.66	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1n	200	THR	CA-C	-5.66	1.45	1.52
1	dT	152	ASP	CA-C	5.66	1.60	1.52
1	dY	84	HIS	ND1-CE1	5.66	1.38	1.32
1	e0	97	ARG	CA-C	5.66	1.60	1.53
1	ec	163	ASP	CA-C	-5.66	1.45	1.52
1	ev	103	ASP	C-N	5.66	1.41	1.33
1	eA	23	TRP	CD2-CE2	5.66	1.50	1.41
1	eC	59	VAL	CA-CB	-5.66	1.47	1.54
1	1v	159	GLU	CA-CB	5.66	1.62	1.53
1	fd	99	PRO	C-N	5.66	1.42	1.33
1	fD	130	TYR	CB-CG	-5.66	1.39	1.51
1	fG	63	GLN	CA-CB	5.66	1.62	1.53
1	fG	126	VAL	CA-CB	-5.66	1.47	1.54
1	fH	99	PRO	N-CD	-5.66	1.39	1.47
1	fY	74	ASN	CA-CB	5.66	1.62	1.53
1	c	148	THR	C-N	5.66	1.40	1.33
1	G	57	ASN	CA-C	5.66	1.60	1.52
1	T	161	PHE	C-N	5.66	1.41	1.33
1	T	217	ALA	CA-CB	5.66	1.62	1.53
1	gn	118	MET	CA-CB	5.66	1.62	1.53
1	gF	52	LEU	N-CA	-5.66	1.39	1.46
1	1G	190	LEU	CA-C	5.66	1.59	1.52
1	hH	157	PRO	CA-CB	5.66	1.61	1.53
1	ij	226	HIS	CD2-NE2	5.66	1.44	1.37
1	iT	217	ALA	CA-C	5.66	1.60	1.53
1	iW	59	VAL	N-CA	-5.66	1.39	1.46
1	je	100	ARG	NE-CZ	5.66	1.39	1.33
1	ks	222	GLY	N-CA	5.66	1.53	1.45
1	kt	38	PRO	N-CA	-5.66	1.40	1.47
1	kA	77	ALA	N-CA	5.66	1.53	1.46
1	kY	149	SER	C-N	5.66	1.40	1.34
1	3x	167	ARG	CZ-NH2	-5.66	1.26	1.33
1	5y	43	LEU	N-CA	-5.66	1.38	1.46
1	5z	141	ILE	C-N	5.66	1.40	1.33
1	8g	47	ALA	CA-CB	5.66	1.62	1.53
1	8X	36	VAL	CA-C	5.66	1.59	1.52
1	9o	59	VAL	CA-C	5.66	1.59	1.52
1	at	115	ILE	N-CA	5.66	1.53	1.46
1	bH	127	GLY	N-CA	5.66	1.52	1.45
1	bR	23	TRP	CA-CB	5.66	1.62	1.53
1	cr	84	HIS	ND1-CE1	5.66	1.38	1.32
1	d4	217	ALA	CA-C	5.66	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eN	202	LEU	CA-C	5.66	1.60	1.52
1	f3	184	TRP	CA-C	-5.66	1.45	1.52
1	d	178	SER	CA-CB	5.66	1.61	1.53
1	K	214	MET	CA-CB	5.66	1.62	1.53
1	U	116	GLY	C-N	5.66	1.41	1.33
1	h7	93	PRO	CA-C	5.66	1.59	1.52
1	hu	67	GLN	C-O	-5.66	1.16	1.24
1	hP	76	GLU	CA-C	5.66	1.60	1.52
1	i3	169	TYR	N-CA	-5.66	1.39	1.46
1	if	186	THR	CA-C	5.66	1.60	1.52
1	iq	14	ALA	C-N	5.66	1.40	1.33
1	1S	81	ASP	N-CA	5.66	1.53	1.46
1	j1	164	TYR	CA-CB	5.66	1.62	1.53
1	je	30	LYS	C-N	-5.66	1.25	1.33
1	jl	7	GLN	C-N	5.66	1.40	1.33
1	1V	137	GLY	C-N	5.66	1.41	1.33
1	jt	73	ILE	C-N	5.66	1.41	1.33
1	jA	116	GLY	CA-C	-5.66	1.45	1.52
1	jU	97	ARG	CD-NE	5.66	1.54	1.46
1	ki	71	GLU	C-N	5.66	1.41	1.33
1	kJ	49	PRO	C-N	5.66	1.41	1.33
1	kL	182	LYS	N-CA	5.66	1.53	1.46
1	l4	178	SER	CA-CB	5.66	1.63	1.53
1	27	88	ALA	CA-C	5.66	1.60	1.52
1	lm	190	LEU	C-N	5.66	1.40	1.33
1	lv	219	GLN	CA-CB	5.66	1.62	1.53
1	29	93	PRO	CA-CB	-5.66	1.45	1.53
1	lK	9	GLN	CA-C	-5.66	1.45	1.52
1	2j	196	PRO	CA-CB	-5.66	1.45	1.53
1	2I	152	ASP	CA-C	-5.66	1.45	1.52
1	2T	88	ALA	C-N	5.66	1.42	1.33
1	3g	97	ARG	CZ-NH2	-5.66	1.26	1.33
1	3y	153	ILE	C-N	5.66	1.40	1.33
1	3C	30	LYS	CA-CB	5.66	1.63	1.53
1	3C	43	LEU	CA-CB	5.66	1.62	1.53
1	3O	129	ILE	CB-CG1	5.66	1.64	1.53
1	44	170	LYS	CA-C	5.66	1.60	1.52
1	4o	139	ASN	CA-CB	5.66	1.62	1.53
1	4R	72	THR	C-N	5.66	1.41	1.33
1	51	22	ALA	N-CA	5.66	1.53	1.46
1	5z	143	ARG	CA-C	5.66	1.60	1.52
1	6g	18	ARG	N-CA	5.66	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6m	57	ASN	CA-C	5.66	1.60	1.52
1	6K	226	HIS	CA-CB	5.66	1.62	1.53
1	6X	99	PRO	C-O	-5.66	1.16	1.23
1	7x	214	MET	N-CA	-5.66	1.39	1.46
1	7H	89	GLY	CA-C	5.66	1.59	1.51
1	84	226	HIS	CD2-NE2	5.66	1.44	1.37
1	85	39	MET	C-N	-5.66	1.26	1.33
1	8i	182	LYS	C-O	-5.66	1.17	1.24
1	8n	85	PRO	N-CD	5.66	1.55	1.47
1	8I	197	ASP	C-N	5.66	1.41	1.33
1	97	1	PRO	N-CD	5.66	1.55	1.47
1	9H	123	PRO	N-CA	5.66	1.53	1.47
1	9K	18	ARG	CA-C	-5.66	1.45	1.52
1	9R	28	GLU	CA-CB	5.66	1.62	1.53
1	9S	61	GLY	CA-C	-5.66	1.44	1.51
1	9Z	165	VAL	CA-C	5.66	1.59	1.52
1	ad	179	GLN	CA-CB	5.66	1.62	1.53
1	ae	14	ALA	CA-C	-5.66	1.45	1.53
1	an	93	PRO	C-N	5.66	1.40	1.32
1	b9	4	GLN	CA-C	-5.66	1.46	1.53
1	bw	62	HIS	CA-CB	5.66	1.61	1.53
1	bX	144	MET	CA-C	-5.66	1.45	1.52
1	1e	60	GLY	CA-C	5.66	1.59	1.51
1	dd	212	GLU	CA-CB	5.66	1.62	1.53
1	dl	65	ALA	C-N	5.66	1.41	1.33
1	dn	80	TRP	CA-CB	5.66	1.62	1.53
1	dy	135	ILE	C-N	5.66	1.41	1.33
1	ec	104	ILE	CA-C	-5.66	1.45	1.52
1	es	210	THR	C-N	5.66	1.41	1.33
1	ey	113	GLU	C-N	5.66	1.41	1.33
1	g4	182	LYS	CA-CB	5.66	1.62	1.53
1	v	171	THR	CA-CB	5.66	1.62	1.53
1	w	128	GLU	CA-CB	5.66	1.62	1.53
1	F	211	LEU	C-N	5.66	1.41	1.33
1	T	42	ALA	CA-C	5.66	1.60	1.52
1	V	87	HIS	N-CA	5.66	1.53	1.45
1	7	19	THR	N-CA	5.66	1.53	1.46
1	gv	154	ARG	C-N	-5.65	1.25	1.33
1	gG	200	THR	N-CA	5.65	1.53	1.46
1	hD	108	THR	C-N	5.65	1.40	1.33
1	hD	197	ASP	CA-CB	5.65	1.62	1.53
1	hX	12	HIS	ND1-CE1	5.65	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jt	183	ASN	C-N	5.65	1.41	1.33
1	jY	97	ARG	C-N	5.65	1.43	1.33
1	kb	32	PHE	CA-CB	5.65	1.60	1.52
1	kF	79	GLU	N-CA	-5.65	1.39	1.46
1	lH	159	GLU	CA-C	-5.65	1.46	1.52
1	2u	169	TYR	N-CA	-5.65	1.39	1.46
1	2Y	151	LEU	CA-CB	5.65	1.63	1.53
1	3p	113	GLU	C-N	-5.65	1.26	1.33
1	3x	136	LEU	CA-CB	5.65	1.62	1.53
1	3Z	9	GLN	CA-C	-5.65	1.45	1.52
1	44	120	HIS	CE1-NE2	5.65	1.38	1.32
1	4L	141	ILE	CA-CB	-5.65	1.47	1.54
1	5E	33	SER	C-N	5.65	1.41	1.33
1	5F	166	ASP	N-CA	-5.65	1.39	1.46
1	5V	36	VAL	N-CA	5.65	1.53	1.46
1	62	21	ASN	CA-CB	5.65	1.62	1.53
1	6J	76	GLU	CA-CB	5.65	1.62	1.53
1	6N	148	THR	CA-C	-5.65	1.45	1.52
1	6W	152	ASP	N-CA	-5.65	1.39	1.46
1	85	230	VAL	N-CA	-5.65	1.39	1.46
1	8r	109	SER	N-CA	-5.65	1.39	1.46
1	92	142	VAL	CA-CB	-5.65	1.48	1.54
1	9e	120	HIS	CA-C	-5.65	1.45	1.52
1	10	207	PRO	N-CD	-5.65	1.39	1.47
1	ap	63	GLN	C-N	5.65	1.41	1.33
1	az	91	ILE	CB-CG1	5.65	1.64	1.53
1	b3	193	ASN	CA-C	5.65	1.59	1.52
1	bz	112	GLN	CA-C	5.65	1.60	1.52
1	cq	5	ASN	CA-CB	5.65	1.60	1.53
1	cR	210	THR	CA-CB	-5.65	1.43	1.53
1	dd	55	MET	CA-CB	5.65	1.62	1.53
1	dk	70	LYS	C-N	5.65	1.41	1.33
1	1o	6	LEU	C-N	5.65	1.41	1.33
1	eb	60	GLY	CA-C	-5.65	1.44	1.51
1	eq	64	ALA	C-O	5.65	1.30	1.24
1	f4	134	ILE	C-O	-5.65	1.17	1.24
1	f4	171	THR	CA-C	-5.65	1.45	1.52
1	fg	46	GLY	C-N	-5.65	1.25	1.33
1	w	219	GLN	CA-C	-5.65	1.45	1.52
1	g8	141	ILE	C-N	5.65	1.41	1.33
1	gI	200	THR	N-CA	5.65	1.53	1.46
1	gN	212	GLU	CA-C	5.65	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gV	87	HIS	ND1-CE1	5.65	1.38	1.32
1	h9	215	MET	CA-CB	5.65	1.62	1.53
1	ha	222	GLY	CA-C	5.65	1.58	1.51
1	hp	110	THR	N-CA	-5.65	1.39	1.46
1	hq	19	THR	CA-CB	-5.65	1.44	1.53
1	hr	30	LYS	CA-CB	5.65	1.62	1.53
1	hv	137	GLY	CA-C	-5.65	1.45	1.52
1	hJ	64	ALA	N-CA	-5.65	1.39	1.46
1	hO	11	VAL	CA-C	5.65	1.59	1.52
1	hT	78	ALA	N-CA	-5.65	1.39	1.46
1	iB	92	GLU	CA-C	5.65	1.58	1.52
1	1R	44	SER	CA-CB	5.65	1.63	1.53
1	iY	98	GLU	C-N	5.65	1.40	1.33
1	jd	48	THR	C-N	-5.65	1.26	1.33
1	jF	87	HIS	CB-CG	5.65	1.58	1.50
1	jM	67	GLN	C-O	-5.65	1.17	1.24
1	kk	130	TYR	CA-CB	5.65	1.62	1.53
1	kB	224	PRO	CA-C	5.65	1.59	1.52
1	kO	180	GLU	C-N	5.65	1.41	1.33
1	25	94	GLY	CA-C	-5.65	1.43	1.51
1	lu	167	ARG	N-CA	5.65	1.53	1.46
1	lB	37	ILE	CA-C	5.65	1.58	1.52
1	29	181	VAL	CA-C	-5.65	1.46	1.52
1	3t	68	MET	C-N	5.65	1.41	1.33
1	3E	23	TRP	NE1-CE2	-5.65	1.31	1.37
1	3Q	51	ASP	C-N	5.65	1.41	1.33
1	4F	79	GLU	CA-C	5.65	1.60	1.52
1	4H	137	GLY	CA-C	-5.65	1.45	1.52
1	58	199	LYS	C-N	5.65	1.41	1.34
1	5w	84	HIS	C-N	5.65	1.41	1.33
1	6K	100	ARG	CD-NE	5.65	1.54	1.46
1	6T	84	HIS	CA-C	-5.65	1.46	1.52
1	6W	131	LYS	CA-C	-5.65	1.45	1.52
1	6W	228	ALA	N-CA	-5.65	1.38	1.46
1	71	130	TYR	CA-C	5.65	1.60	1.52
1	76	75	GLU	CA-C	5.65	1.60	1.52
1	7A	208	ALA	CA-C	5.65	1.60	1.53
1	85	187	GLU	N-CA	-5.65	1.39	1.46
1	8R	161	PHE	CA-CB	5.65	1.62	1.53
1	9b	172	LEU	C-N	5.65	1.41	1.33
1	9K	21	ASN	N-CA	5.65	1.53	1.46
1	Y	114	GLN	C-O	-5.65	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9R	65	ALA	C-N	5.65	1.41	1.33
1	9W	162	ARG	CD-NE	5.65	1.54	1.46
1	an	101	GLY	CA-C	5.65	1.58	1.51
1	av	80	TRP	N-CA	-5.65	1.39	1.46
1	ay	162	ARG	C-N	5.65	1.41	1.34
1	bh	132	ARG	CA-CB	5.65	1.62	1.53
1	bv	187	GLU	CA-CB	5.65	1.62	1.53
1	19	229	ARG	CZ-NH2	5.65	1.40	1.33
1	bN	20	LEU	N-CA	5.65	1.53	1.46
1	bP	82	ARG	C-N	5.65	1.41	1.33
1	bX	96	MET	C-N	5.65	1.40	1.33
1	bZ	133	TRP	N-CA	-5.65	1.39	1.46
1	c9	218	CYS	CA-C	5.65	1.60	1.52
1	ca	85	PRO	CA-CB	5.65	1.61	1.53
1	cl	8	GLY	N-CA	5.65	1.50	1.45
1	cI	150	ILE	N-CA	5.65	1.53	1.46
1	cJ	228	ALA	CA-C	5.65	1.59	1.52
1	cK	213	GLU	CA-CB	5.65	1.62	1.53
1	cZ	160	PRO	CA-C	5.65	1.59	1.52
1	d2	218	CYS	N-CA	-5.65	1.38	1.45
1	1i	17	PRO	N-CD	-5.65	1.39	1.47
1	dv	87	HIS	CD2-NE2	5.65	1.44	1.37
1	dF	170	LYS	N-CA	-5.65	1.39	1.46
1	1m	160	PRO	CA-CB	5.65	1.61	1.53
1	dV	68	MET	N-CA	-5.65	1.39	1.46
1	dV	142	VAL	C-N	5.65	1.41	1.33
1	eG	165	VAL	CA-CB	-5.65	1.47	1.54
1	eM	110	THR	C-O	-5.65	1.16	1.23
1	eO	200	THR	CA-C	5.65	1.60	1.52
1	f6	109	SER	CA-C	-5.65	1.45	1.52
1	fo	34	PRO	CA-C	5.65	1.60	1.52
1	fr	191	VAL	CA-CB	5.65	1.61	1.54
1	fs	180	GLU	CA-CB	5.65	1.62	1.53
1	fx	18	ARG	CA-C	5.65	1.60	1.52
1	fF	118	MET	N-CA	-5.65	1.38	1.46
1	fI	21	ASN	C-N	5.65	1.41	1.33
1	i	97	ARG	CD-NE	5.65	1.54	1.46
1	ge	55	MET	N-CA	5.65	1.53	1.46
1	gg	183	ASN	CA-C	5.65	1.60	1.52
1	gk	23	TRP	NE1-CE2	-5.65	1.31	1.37
1	gp	100	ARG	CA-C	-5.65	1.45	1.53
1	gB	76	GLU	CA-CB	5.65	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1G	177	ALA	CA-C	5.65	1.60	1.53
1	h2	2	ILE	N-CA	5.65	1.52	1.46
1	hn	103	ASP	CA-C	5.65	1.60	1.52
1	hr	21	ASN	N-CA	5.65	1.53	1.46
1	hu	114	GLN	CA-C	5.65	1.60	1.52
1	hC	162	ARG	CA-CB	5.65	1.62	1.53
1	1L	1	PRO	C-N	5.65	1.40	1.33
1	hY	204	ALA	CA-CB	5.65	1.62	1.53
1	i6	120	HIS	C-N	5.65	1.40	1.33
1	ia	143	ARG	CD-NE	5.65	1.54	1.46
1	ii	154	ARG	CA-C	-5.65	1.46	1.52
1	iq	110	THR	C-N	5.65	1.41	1.33
1	iF	145	TYR	C-N	5.65	1.40	1.33
1	iF	154	ARG	NE-CZ	-5.65	1.26	1.33
1	iJ	151	LEU	CA-CB	5.65	1.62	1.53
1	iX	51	ASP	C-N	5.65	1.41	1.33
1	iY	62	HIS	CE1-NE2	5.65	1.38	1.32
1	jm	177	ALA	C-N	5.65	1.40	1.33
1	jU	6	LEU	CA-C	5.65	1.60	1.52
1	k7	52	LEU	CA-CB	5.65	1.62	1.53
1	kg	141	ILE	CA-C	-5.65	1.46	1.52
1	23	14	ALA	N-CA	-5.65	1.38	1.46
1	kH	87	HIS	ND1-CE1	5.65	1.38	1.32
1	24	85	PRO	N-CA	5.65	1.54	1.47
1	li	6	LEU	CA-C	5.65	1.61	1.52
1	lm	10	MET	C-N	5.65	1.41	1.33
1	lA	100	ARG	CD-NE	5.65	1.54	1.46
1	lK	178	SER	CA-CB	5.65	1.62	1.53
1	lK	230	VAL	CA-C	5.65	1.59	1.52
1	2i	62	HIS	ND1-CE1	-5.65	1.26	1.32
1	2p	164	TYR	N-CA	5.65	1.53	1.46
1	2r	42	ALA	CA-CB	5.65	1.62	1.53
1	2E	120	HIS	CB-CG	5.65	1.58	1.50
1	2Q	59	VAL	CA-CB	5.65	1.61	1.54
1	2T	223	GLY	C-N	5.65	1.41	1.33
1	30	188	THR	C-N	5.65	1.41	1.33
1	32	173	ARG	CA-C	5.65	1.60	1.52
1	3a	146	SER	CA-C	5.65	1.59	1.52
1	3P	130	TYR	N-CA	-5.65	1.39	1.46
1	3S	200	THR	CA-CB	5.65	1.62	1.53
1	42	160	PRO	CA-C	5.65	1.60	1.52
1	4e	148	THR	CA-CB	5.65	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4q	155	GLN	CA-C	-5.65	1.45	1.52
1	4y	167	ARG	CD-NE	5.65	1.54	1.46
1	4H	107	THR	CA-C	-5.65	1.45	1.52
1	56	145	TYR	CA-C	5.65	1.60	1.52
1	5f	136	LEU	CA-CB	5.65	1.62	1.53
1	5j	49	PRO	N-CA	-5.65	1.40	1.47
1	5s	72	THR	N-CA	5.65	1.53	1.46
1	5W	56	LEU	CA-C	5.65	1.59	1.52
1	5W	162	ARG	CA-CB	5.65	1.62	1.53
1	6g	4	GLN	C-N	5.65	1.41	1.34
1	6l	47	ALA	CA-CB	5.65	1.61	1.53
1	6q	199	LYS	N-CA	-5.65	1.39	1.46
1	6H	154	ARG	CA-C	5.65	1.59	1.52
1	7w	158	LYS	CA-C	5.65	1.59	1.52
1	7B	219	GLN	CA-CB	5.65	1.63	1.53
1	7U	12	HIS	CB-CG	5.65	1.58	1.50
1	7U	73	ILE	C-N	5.65	1.41	1.33
1	85	217	ALA	N-CA	-5.65	1.39	1.46
1	89	98	GLU	CA-C	5.65	1.59	1.52
1	8b	190	LEU	CA-CB	5.65	1.62	1.53
1	8y	108	THR	C-O	-5.65	1.16	1.24
1	9m	229	ARG	CA-C	-5.65	1.45	1.52
1	9Q	34	PRO	CA-C	5.65	1.60	1.52
1	a0	98	GLU	CA-CB	5.65	1.63	1.52
1	aj	91	ILE	CA-C	-5.65	1.45	1.53
1	ay	70	LYS	C-O	5.65	1.30	1.24
1	13	173	ARG	C-N	5.65	1.41	1.34
1	b5	133	TRP	CA-CB	5.65	1.62	1.53
1	bd	19	THR	CA-C	5.65	1.60	1.52
1	bs	212	GLU	CA-C	5.65	1.59	1.52
1	bA	18	ARG	CA-C	5.65	1.60	1.52
1	bH	173	ARG	C-O	-5.65	1.17	1.24
1	bI	87	HIS	CB-CG	-5.65	1.42	1.50
1	bO	35	GLU	CA-C	5.65	1.60	1.52
1	cp	72	THR	N-CA	5.65	1.53	1.46
1	cM	164	TYR	C-N	5.65	1.40	1.33
1	cM	173	ARG	NE-CZ	-5.65	1.26	1.33
1	cP	150	ILE	CA-CB	-5.65	1.47	1.54
1	cY	93	PRO	C-N	-5.65	1.26	1.33
1	dF	229	ARG	CD-NE	5.65	1.54	1.46
1	dH	108	THR	CA-C	-5.65	1.44	1.52
1	dY	94	GLY	C-N	5.65	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dZ	14	ALA	N-CA	5.65	1.53	1.45
1	ez	49	PRO	CA-C	-5.65	1.43	1.52
1	f8	26	VAL	CA-CB	5.65	1.61	1.54
1	f8	30	LYS	C-N	5.65	1.41	1.33
1	fp	69	LEU	C-N	5.65	1.41	1.33
1	fv	27	VAL	CA-CB	-5.65	1.47	1.54
1	0	46	GLY	CA-C	-5.65	1.45	1.51
1	v	143	ARG	C-N	-5.65	1.26	1.34
1	1F	150	ILE	C-N	5.65	1.41	1.33
1	gR	117	TRP	NE1-CE2	5.65	1.43	1.37
1	gZ	173	ARG	CA-CB	5.65	1.62	1.53
1	hA	44	SER	CA-CB	5.65	1.63	1.53
1	hX	62	HIS	CE1-NE2	5.65	1.38	1.32
1	j1	151	LEU	CA-C	5.65	1.60	1.52
1	jE	16	SER	CA-C	5.65	1.59	1.53
1	jI	98	GLU	CA-C	5.65	1.59	1.52
1	1Z	207	PRO	CA-CB	5.65	1.62	1.53
1	kQ	185	MET	N-CA	-5.65	1.39	1.46
1	lg	79	GLU	C-O	-5.65	1.17	1.24
1	2c	132	ARG	C-N	5.65	1.41	1.33
1	2L	51	ASP	N-CA	5.65	1.53	1.46
1	2X	91	ILE	C-N	5.65	1.39	1.33
1	3j	143	ARG	C-O	-5.65	1.17	1.24
1	3I	55	MET	CA-CB	5.65	1.62	1.53
1	4D	28	GLU	CA-C	5.65	1.59	1.52
1	59	159	GLU	CA-C	5.65	1.58	1.52
1	5f	54	THR	N-CA	5.65	1.53	1.46
1	5C	90	PRO	CA-CB	5.65	1.61	1.53
1	6C	2	ILE	C-O	-5.65	1.18	1.24
1	6W	164	TYR	C-N	5.65	1.41	1.33
1	7e	151	LEU	CA-CB	5.65	1.62	1.53
1	8T	167	ARG	CA-C	-5.65	1.45	1.52
1	9g	59	VAL	C-O	-5.65	1.18	1.23
1	9p	70	LYS	CA-C	-5.65	1.45	1.52
1	aT	143	ARG	CA-C	5.65	1.60	1.52
1	bp	168	PHE	CA-C	-5.65	1.45	1.52
1	by	163	ASP	N-CA	-5.65	1.39	1.46
1	bO	52	LEU	N-CA	-5.65	1.39	1.46
1	c2	141	ILE	CA-CB	-5.65	1.47	1.54
1	co	108	THR	N-CA	5.65	1.52	1.46
1	cC	179	GLN	CA-CB	5.65	1.62	1.53
1	dn	100	ARG	CA-C	5.65	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dI	96	MET	C-N	5.65	1.40	1.33
1	eF	187	GLU	N-CA	5.65	1.53	1.46
1	1t	108	THR	N-CA	5.65	1.53	1.46
1	f9	144	MET	C-N	5.65	1.41	1.33
1	b	207	PRO	N-CA	5.65	1.54	1.47
1	x	102	SER	CA-CB	5.65	1.62	1.53
1	P	104	ILE	CA-C	-5.65	1.46	1.52
1	gn	10	MET	C-N	5.65	1.41	1.33
1	gI	180	GLU	CA-CB	5.65	1.62	1.53
1	h2	152	ASP	C-N	5.65	1.40	1.33
1	hN	8	GLY	N-CA	5.65	1.53	1.45
1	iK	56	LEU	N-CA	5.65	1.53	1.46
1	ja	202	LEU	CA-C	5.65	1.60	1.52
1	jh	13	GLN	CA-C	-5.65	1.45	1.52
1	jk	19	THR	C-N	5.65	1.41	1.33
1	ki	149	SER	CA-CB	5.65	1.62	1.53
1	kl	59	VAL	CA-CB	-5.65	1.46	1.54
1	kr	155	GLN	N-CA	-5.65	1.38	1.45
1	kv	58	THR	N-CA	5.65	1.53	1.46
1	ky	230	VAL	C-N	5.65	1.41	1.33
1	kC	226	HIS	ND1-CE1	5.65	1.38	1.32
1	kN	181	VAL	N-CA	-5.65	1.39	1.46
1	kQ	211	LEU	C-N	5.65	1.41	1.33
1	kR	137	GLY	N-CA	-5.65	1.38	1.45
1	lb	23	TRP	CG-CD2	-5.65	1.33	1.43
1	lc	20	LEU	C-N	5.65	1.41	1.34
1	li	50	GLN	CA-C	5.65	1.60	1.52
1	lu	164	TYR	C-N	5.65	1.40	1.34
1	lD	37	ILE	CA-C	5.65	1.57	1.52
1	2i	2	ILE	CA-CB	-5.65	1.48	1.54
1	2k	99	PRO	N-CA	5.65	1.53	1.47
1	2C	8	GLY	N-CA	5.65	1.53	1.45
1	2J	202	LEU	N-CA	-5.65	1.39	1.46
1	2Q	84	HIS	CE1-NE2	5.65	1.38	1.32
1	34	46	GLY	CA-C	5.65	1.59	1.51
1	3k	97	ARG	CD-NE	5.65	1.54	1.46
1	3y	154	ARG	C-N	5.65	1.41	1.33
1	49	66	MET	CA-C	5.65	1.60	1.52
1	4c	193	ASN	C-N	5.65	1.41	1.33
1	4j	55	MET	C-N	5.65	1.42	1.33
1	4s	10	MET	CA-C	-5.65	1.46	1.53
1	4E	107	THR	N-CA	5.65	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4L	143	ARG	CD-NE	5.65	1.54	1.46
1	55	162	ARG	CA-CB	5.65	1.62	1.53
1	5e	10	MET	CA-CB	5.65	1.62	1.53
1	5i	204	ALA	C-N	5.65	1.41	1.33
1	5Q	79	GLU	CA-C	-5.65	1.45	1.52
1	5W	139	ASN	CA-C	5.65	1.60	1.52
1	6a	156	GLY	C-N	5.65	1.40	1.34
1	6F	178	SER	CA-C	5.65	1.60	1.52
1	6U	99	PRO	C-N	5.65	1.40	1.33
1	73	65	ALA	CA-C	5.65	1.60	1.52
1	7o	160	PRO	C-N	5.65	1.41	1.33
1	7D	42	ALA	N-CA	5.65	1.53	1.46
1	7S	69	LEU	CA-CB	5.65	1.62	1.53
1	8z	119	THR	N-CA	5.65	1.53	1.46
1	8H	9	GLN	CA-CB	5.65	1.62	1.53
1	8N	151	LEU	C-N	5.65	1.41	1.33
1	8O	45	GLU	CA-C	-5.65	1.44	1.52
1	8P	188	THR	CA-C	5.65	1.60	1.52
1	8S	103	ASP	CA-C	-5.65	1.45	1.52
1	8X	190	LEU	CA-CB	5.65	1.62	1.53
1	92	170	LYS	CA-C	-5.65	1.45	1.52
1	97	210	THR	C-N	5.65	1.41	1.34
1	9a	98	GLU	CA-CB	5.65	1.63	1.52
1	9D	6	LEU	N-CA	5.65	1.53	1.46
1	a0	19	THR	C-O	-5.65	1.17	1.24
1	a4	131	LYS	CA-CB	5.65	1.62	1.53
1	aa	57	ASN	C-N	5.65	1.41	1.33
1	am	203	LYS	C-N	5.65	1.41	1.34
1	aw	19	THR	CA-C	5.65	1.59	1.52
1	13	128	GLU	CA-C	5.65	1.60	1.52
1	aH	226	HIS	C-N	5.65	1.41	1.33
1	aN	202	LEU	CA-C	5.65	1.60	1.52
1	bo	87	HIS	ND1-CE1	5.65	1.38	1.32
1	bv	120	HIS	CE1-NE2	-5.65	1.26	1.32
1	bE	173	ARG	NE-CZ	-5.65	1.26	1.33
1	bX	69	LEU	C-N	5.65	1.41	1.33
1	co	68	MET	CA-C	5.65	1.60	1.52
1	1e	225	GLY	N-CA	5.65	1.53	1.45
1	ct	164	TYR	CA-C	-5.65	1.45	1.52
1	cC	3	VAL	N-CA	-5.65	1.39	1.46
1	cN	13	GLN	N-CA	5.65	1.52	1.46
1	ed	169	TYR	C-N	5.65	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	en	195	ASN	N-CA	-5.65	1.37	1.45
1	eZ	208	ALA	C-N	5.65	1.41	1.33
1	f8	121	ASN	CA-CB	5.65	1.61	1.53
1	fv	132	ARG	C-N	5.65	1.41	1.33
1	fM	33	SER	CA-CB	5.65	1.61	1.53
1	fQ	224	PRO	CA-CB	5.65	1.61	1.53
1	fU	3	VAL	CA-C	5.65	1.59	1.52
1	a	90	PRO	N-CA	5.65	1.54	1.47
1	c	161	PHE	C-O	-5.65	1.17	1.24
1	n	84	HIS	CA-CB	5.65	1.57	1.52
1	A	166	ASP	CA-CB	5.65	1.62	1.53
1	W	172	LEU	CA-C	5.65	1.60	1.52
1	gr	49	PRO	N-CA	5.65	1.55	1.47
1	gu	114	GLN	N-CA	-5.65	1.39	1.46
1	is	102	SER	CA-CB	5.65	1.62	1.53
1	iu	84	HIS	CA-CB	5.65	1.64	1.53
1	iN	223	GLY	C-O	-5.65	1.16	1.24
1	iU	219	GLN	N-CA	5.65	1.53	1.46
1	jp	162	ARG	C-N	5.65	1.41	1.33
1	1Y	111	LEU	C-N	5.65	1.41	1.33
1	jZ	199	LYS	CA-CB	5.65	1.62	1.53
1	k4	66	MET	C-N	5.65	1.41	1.33
1	2N	27	VAL	CA-CB	5.65	1.61	1.54
1	3i	12	HIS	ND1-CE1	5.65	1.38	1.32
1	3z	221	VAL	N-CA	-5.65	1.40	1.46
1	46	18	ARG	CA-C	5.65	1.60	1.52
1	4Q	95	GLN	N-CA	5.65	1.55	1.46
1	55	175	GLU	CA-C	5.65	1.60	1.52
1	63	14	ALA	CA-C	-5.65	1.45	1.52
1	6h	14	ALA	C-O	-5.65	1.16	1.23
1	6m	46	GLY	CA-C	-5.65	1.44	1.51
1	7d	199	LYS	CA-C	5.65	1.59	1.52
1	7u	119	THR	CA-C	5.65	1.59	1.52
1	8a	36	VAL	N-CA	-5.65	1.38	1.46
1	8E	50	GLN	CA-C	5.65	1.60	1.52
1	8J	175	GLU	C-N	5.65	1.41	1.33
1	93	112	GLN	CA-CB	5.65	1.62	1.53
1	9o	196	PRO	N-CA	5.65	1.54	1.47
1	9t	183	ASN	CA-CB	5.65	1.62	1.53
1	12	64	ALA	CA-C	5.65	1.60	1.52
1	au	20	LEU	N-CA	-5.65	1.39	1.46
1	aD	36	VAL	C-N	5.65	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	211	LEU	N-CA	-5.65	1.39	1.46
1	de	62	HIS	CE1-NE2	5.65	1.38	1.32
1	dG	219	GLN	C-N	5.65	1.41	1.33
1	dP	92	GLU	C-N	-5.65	1.26	1.33
1	dV	46	GLY	C-N	5.65	1.41	1.33
1	e0	180	GLU	C-N	5.65	1.41	1.33
1	ex	144	MET	C-O	-5.65	1.17	1.24
1	ff	123	PRO	N-CA	-5.65	1.40	1.46
1	g	164	TYR	CA-CB	5.65	1.62	1.53
1	B	59	VAL	CA-C	-5.65	1.46	1.53
1	T	132	ARG	CZ-NH2	-5.65	1.26	1.33
1	8	178	SER	CA-CB	5.65	1.62	1.53
1	8	198	CYS	C-O	-5.65	1.17	1.24
1	1C	191	VAL	CA-C	5.64	1.60	1.52
1	gz	132	ARG	C-O	-5.64	1.17	1.24
1	gM	201	ILE	CA-C	5.64	1.59	1.52
1	1H	182	LYS	C-N	5.64	1.41	1.33
1	hd	10	MET	CG-SD	5.64	1.94	1.80
1	hG	189	LEU	CA-CB	5.64	1.62	1.53
1	hL	186	THR	CA-CB	5.64	1.62	1.53
1	i0	145	TYR	CA-C	5.64	1.59	1.52
1	i6	120	HIS	CA-CB	5.64	1.63	1.53
1	ic	80	TRP	N-CA	-5.64	1.39	1.46
1	if	23	TRP	C-N	5.64	1.40	1.33
1	ir	120	HIS	CB-CG	5.64	1.58	1.50
1	iG	111	LEU	CA-CB	5.64	1.62	1.53
1	iK	168	PHE	CA-C	5.64	1.59	1.52
1	iU	207	PRO	CA-C	5.64	1.59	1.52
1	j4	217	ALA	CA-C	5.64	1.59	1.52
1	j9	144	MET	N-CA	-5.64	1.39	1.46
1	jR	36	VAL	C-O	-5.64	1.16	1.24
1	jU	88	ALA	CA-CB	5.64	1.61	1.53
1	1Z	107	THR	CA-C	-5.64	1.45	1.52
1	k3	7	GLN	CA-CB	5.64	1.62	1.53
1	km	143	ARG	CA-C	-5.64	1.45	1.52
1	kv	160	PRO	N-CD	5.64	1.55	1.47
1	kV	36	VAL	CA-CB	-5.64	1.47	1.54
1	l7	226	HIS	CE1-NE2	-5.64	1.26	1.32
1	lc	183	ASN	C-O	5.64	1.30	1.24
1	lt	152	ASP	CA-CB	5.64	1.63	1.53
1	29	103	ASP	C-N	5.64	1.41	1.33
1	lO	66	MET	C-N	5.64	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2g	78	ALA	N-CA	-5.64	1.39	1.46
1	2q	12	HIS	CD2-NE2	5.64	1.44	1.37
1	2r	120	HIS	CB-CG	5.64	1.58	1.50
1	30	167	ARG	CD-NE	5.64	1.54	1.46
1	32	91	ILE	N-CA	5.64	1.53	1.46
1	3a	37	ILE	N-CA	5.64	1.53	1.46
1	3c	48	THR	CA-CB	5.64	1.60	1.53
1	3i	216	THR	CA-CB	-5.64	1.44	1.53
1	3l	134	ILE	C-O	5.64	1.30	1.24
1	3t	159	GLU	CA-C	5.64	1.58	1.52
1	3K	111	LEU	CA-C	-5.64	1.45	1.52
1	43	209	ALA	C-N	5.64	1.41	1.33
1	4e	21	ASN	C-N	5.64	1.41	1.33
1	4A	35	GLU	CA-CB	-5.64	1.44	1.53
1	4O	146	SER	CA-CB	5.64	1.62	1.53
1	5j	134	ILE	C-O	-5.64	1.17	1.24
1	5u	37	ILE	CA-C	5.64	1.57	1.52
1	5w	82	ARG	CD-NE	5.64	1.54	1.46
1	5M	44	SER	CA-CB	5.64	1.61	1.53
1	6G	90	PRO	N-CA	5.64	1.54	1.47
1	6Y	227	LYS	N-CA	-5.64	1.39	1.46
1	6Z	226	HIS	ND1-CE1	5.64	1.38	1.32
1	73	159	GLU	C-N	-5.64	1.26	1.34
1	7q	226	HIS	CA-C	5.64	1.59	1.52
1	7v	62	HIS	CE1-NE2	5.64	1.38	1.32
1	7z	19	THR	N-CA	5.64	1.53	1.46
1	80	118	MET	C-N	5.64	1.41	1.33
1	82	169	TYR	C-N	5.64	1.41	1.34
1	8a	1	PRO	N-CA	5.64	1.55	1.47
1	8j	181	VAL	C-N	5.64	1.41	1.33
1	8l	43	LEU	N-CA	5.64	1.53	1.46
1	8l	51	ASP	C-N	5.64	1.41	1.33
1	8z	197	ASP	C-N	5.64	1.41	1.33
1	8S	199	LYS	C-N	5.64	1.41	1.33
1	99	23	TRP	N-CA	5.64	1.53	1.46
1	9j	100	ARG	CA-C	5.64	1.61	1.53
1	9r	202	LEU	CA-CB	5.64	1.62	1.53
1	9y	156	GLY	C-N	5.64	1.40	1.34
1	9Q	151	LEU	CA-CB	5.64	1.62	1.53
1	9U	80	TRP	CA-CB	5.64	1.62	1.53
1	9U	102	SER	C-N	5.64	1.41	1.33
1	ad	123	PRO	CA-C	-5.64	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	11	44	SER	CA-CB	5.64	1.61	1.53
1	aE	43	LEU	C-N	5.64	1.41	1.33
1	aG	117	TRP	CA-C	-5.64	1.44	1.52
1	aI	54	THR	CA-C	5.64	1.60	1.52
1	aJ	85	PRO	C-N	5.64	1.41	1.33
1	aW	108	THR	C-N	5.64	1.41	1.33
1	bg	124	ILE	CA-CB	5.64	1.60	1.54
1	bk	50	GLN	C-N	5.64	1.41	1.33
1	bG	126	VAL	CA-C	-5.64	1.46	1.52
1	bW	143	ARG	CZ-NH2	5.64	1.40	1.33
1	c2	7	GLN	CA-C	-5.64	1.45	1.52
1	db	64	ALA	CA-C	-5.64	1.45	1.52
1	dD	11	VAL	CA-CB	-5.64	1.47	1.54
1	dQ	202	LEU	N-CA	5.64	1.53	1.46
1	dS	133	TRP	N-CA	5.64	1.53	1.46
1	e6	128	GLU	CA-C	-5.64	1.45	1.52
1	ea	64	ALA	CA-C	-5.64	1.45	1.52
1	ed	96	MET	N-CA	5.64	1.53	1.46
1	et	153	ILE	N-CA	5.64	1.53	1.46
1	1s	122	PRO	C-N	-5.64	1.26	1.33
1	eO	155	GLN	CA-C	5.64	1.60	1.52
1	eP	202	LEU	N-CA	5.64	1.53	1.46
1	eV	226	HIS	CA-C	-5.64	1.45	1.52
1	fm	2	ILE	C-N	5.64	1.41	1.33
1	fS	75	GLU	CA-CB	-5.64	1.44	1.53
1	g0	10	MET	CA-C	5.64	1.60	1.52
1	g3	181	VAL	C-N	5.64	1.41	1.33
1	f	72	THR	CA-C	-5.64	1.45	1.52
1	gt	225	GLY	C-N	5.64	1.42	1.33
1	hq	221	VAL	CA-CB	-5.64	1.47	1.54
1	hs	77	ALA	N-CA	-5.64	1.39	1.46
1	hN	226	HIS	CG-ND1	-5.64	1.32	1.38
1	hY	136	LEU	CA-CB	5.64	1.62	1.53
1	ij	167	ARG	C-O	5.64	1.30	1.24
1	ir	76	GLU	CA-CB	5.64	1.62	1.53
1	iz	134	ILE	CA-CB	-5.64	1.48	1.54
1	iC	219	GLN	C-N	5.64	1.39	1.33
1	iE	44	SER	CA-CB	5.64	1.61	1.53
1	iG	74	ASN	CA-CB	5.64	1.62	1.53
1	1T	12	HIS	N-CA	5.64	1.53	1.45
1	j2	50	GLN	CA-CB	5.64	1.62	1.53
1	j5	134	ILE	CA-C	5.64	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jb	161	PHE	C-N	5.64	1.41	1.33
1	je	53	ASN	CA-C	5.64	1.60	1.52
1	k2	134	ILE	C-N	5.64	1.41	1.33
1	km	120	HIS	CD2-NE2	5.64	1.44	1.37
1	l0	68	MET	CG-SD	5.64	1.94	1.80
1	l2	12	HIS	CA-CB	5.64	1.62	1.53
1	lh	101	GLY	CA-C	-5.64	1.43	1.51
1	2f	218	CYS	CA-CB	5.64	1.62	1.53
1	2s	43	LEU	C-N	5.64	1.41	1.33
1	3y	13	GLN	N-CA	-5.64	1.39	1.45
1	3D	190	LEU	N-CA	-5.64	1.39	1.46
1	3N	105	ALA	C-O	-5.64	1.16	1.24
1	3R	92	GLU	CA-CB	5.64	1.62	1.53
1	3R	112	GLN	C-O	5.64	1.30	1.24
1	55	98	GLU	CA-C	5.64	1.59	1.53
1	5l	91	ILE	CA-C	-5.64	1.45	1.52
1	5p	151	LEU	CA-C	5.64	1.61	1.52
1	5x	133	TRP	CA-CB	5.64	1.62	1.53
1	5L	57	ASN	CA-CB	5.64	1.62	1.53
1	6h	98	GLU	CA-C	5.64	1.59	1.52
1	6k	152	ASP	CA-C	5.64	1.60	1.52
1	6l	157	PRO	N-CA	-5.64	1.40	1.47
1	6Q	29	GLU	CA-C	-5.64	1.46	1.53
1	72	93	PRO	CA-C	5.64	1.59	1.52
1	7A	145	TYR	CA-CB	5.64	1.61	1.53
1	7L	18	ARG	C-N	-5.64	1.26	1.33
1	8b	53	ASN	C-O	-5.64	1.17	1.24
1	8i	50	GLN	C-O	-5.64	1.17	1.24
1	8B	116	GLY	CA-C	-5.64	1.45	1.52
1	8G	87	HIS	CB-CG	-5.64	1.42	1.50
1	8P	127	GLY	CA-C	5.64	1.59	1.51
1	8Y	64	ALA	N-CA	5.64	1.53	1.46
1	98	193	ASN	N-CA	-5.64	1.38	1.46
1	9B	144	MET	CA-CB	5.64	1.62	1.53
1	9G	196	PRO	N-CD	5.64	1.55	1.47
1	a1	52	LEU	C-N	5.64	1.41	1.33
1	a6	149	SER	C-N	5.64	1.41	1.33
1	a7	133	TRP	NE1-CE2	-5.64	1.31	1.37
1	ap	2	ILE	CA-C	5.64	1.59	1.52
1	as	13	GLN	CA-C	-5.64	1.45	1.52
1	az	164	TYR	CA-CB	5.64	1.62	1.53
1	aO	92	GLU	N-CA	-5.64	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aQ	56	LEU	N-CA	5.64	1.53	1.46
1	aS	212	GLU	CA-CB	5.64	1.62	1.53
1	bu	226	HIS	CA-C	5.64	1.60	1.53
1	bS	230	VAL	CA-CB	-5.64	1.46	1.54
1	cq	187	GLU	N-CA	-5.64	1.39	1.46
1	d0	149	SER	N-CA	5.64	1.53	1.45
1	d5	62	HIS	CG-ND1	5.64	1.44	1.38
1	dF	44	SER	C-N	5.64	1.41	1.33
1	dH	57	ASN	CA-CB	5.64	1.62	1.53
1	dJ	205	LEU	CA-CB	5.64	1.62	1.53
1	ea	84	HIS	ND1-CE1	5.64	1.38	1.32
1	et	62	HIS	CE1-NE2	5.64	1.38	1.32
1	eL	140	LYS	C-N	5.64	1.41	1.33
1	1u	103	ASP	N-CA	5.64	1.53	1.46
1	fd	19	THR	CA-C	-5.64	1.45	1.52
1	1w	6	LEU	CA-C	5.64	1.60	1.52
1	fn	172	LEU	N-CA	-5.64	1.39	1.46
1	fo	53	ASN	CA-C	5.64	1.60	1.52
1	fN	61	GLY	C-N	5.64	1.41	1.33
1	1z	128	GLU	C-N	5.64	1.41	1.33
1	fW	35	GLU	CA-C	5.64	1.60	1.52
1	1A	20	LEU	CA-CB	5.64	1.62	1.53
1	g7	72	THR	CA-C	-5.64	1.45	1.52
1	e	134	ILE	CA-CB	-5.64	1.47	1.54
1	l	133	TRP	CA-CB	5.64	1.62	1.53
1	w	197	ASP	CA-CB	5.64	1.62	1.53
1	3	86	VAL	CA-CB	-5.64	1.47	1.54
1	Q	53	ASN	CA-CB	5.64	1.62	1.53
1	7	138	LEU	CA-CB	5.64	1.62	1.53
1	hA	195	ASN	CA-CB	5.64	1.61	1.53
1	hQ	173	ARG	NE-CZ	5.64	1.39	1.33
1	hS	167	ARG	CD-NE	5.64	1.54	1.46
1	jw	93	PRO	CA-C	5.64	1.60	1.52
1	jS	166	ASP	N-CA	-5.64	1.39	1.46
1	k7	188	THR	C-N	5.64	1.41	1.34
1	kW	142	VAL	CA-C	-5.64	1.45	1.52
1	lb	169	TYR	C-N	5.64	1.41	1.33
1	le	160	PRO	C-N	5.64	1.41	1.33
1	lg	4	GLN	C-N	5.64	1.41	1.33
1	2O	172	LEU	CA-C	5.64	1.60	1.52
1	3C	18	ARG	CD-NE	5.64	1.54	1.46
1	42	172	LEU	CA-CB	5.64	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4S	65	ALA	CA-C	-5.64	1.45	1.52
1	59	218	CYS	N-CA	-5.64	1.38	1.46
1	5a	54	THR	N-CA	5.64	1.53	1.46
1	5l	42	ALA	CA-C	5.64	1.60	1.52
1	6A	112	GLN	C-N	5.64	1.41	1.33
1	6L	69	LEU	CB-CG	5.64	1.64	1.53
1	77	30	LYS	CA-C	5.64	1.59	1.52
1	7i	76	GLU	N-CA	-5.64	1.39	1.46
1	8j	128	GLU	CA-CB	5.64	1.62	1.53
1	8t	177	ALA	CA-C	5.64	1.60	1.53
1	9L	81	ASP	CA-C	-5.64	1.45	1.52
1	a1	59	VAL	CA-C	-5.64	1.46	1.52
1	am	144	MET	C-N	5.64	1.41	1.33
1	aE	10	MET	C-N	-5.64	1.26	1.33
1	bt	188	THR	CA-C	-5.64	1.48	1.52
1	bv	124	ILE	N-CA	-5.64	1.41	1.46
1	bA	205	LEU	CA-C	5.64	1.59	1.52
1	bR	130	TYR	CZ-OH	5.64	1.49	1.38
1	bY	32	PHE	CA-CB	5.64	1.61	1.53
1	1d	133	TRP	NE1-CE2	5.64	1.43	1.37
1	di	120	HIS	ND1-CE1	5.64	1.38	1.32
1	dn	9	GLN	CA-CB	5.64	1.61	1.53
1	dG	59	VAL	CA-C	5.64	1.59	1.53
1	dV	22	ALA	C-N	5.64	1.41	1.33
1	e9	122	PRO	N-CD	-5.64	1.40	1.47
1	ed	66	MET	C-O	-5.64	1.17	1.24
1	ep	154	ARG	CD-NE	5.64	1.54	1.46
1	eG	62	HIS	ND1-CE1	-5.64	1.26	1.32
1	N	58	THR	N-CA	5.64	1.52	1.46
1	gs	3	VAL	CA-C	5.64	1.59	1.52
1	gt	67	GLN	CA-CB	5.64	1.62	1.53
1	gN	84	HIS	CA-C	5.64	1.59	1.52
1	gR	176	GLN	C-N	5.64	1.40	1.33
1	gX	8	GLY	C-N	5.64	1.41	1.33
1	1H	71	GLU	C-O	-5.64	1.17	1.24
1	hf	95	GLN	CA-C	5.64	1.59	1.52
1	1I	12	HIS	CD2-NE2	5.64	1.44	1.37
1	hV	77	ALA	CA-CB	5.64	1.62	1.53
1	hY	207	PRO	N-CD	5.64	1.55	1.47
1	i1	150	ILE	C-N	5.64	1.41	1.33
1	i8	193	ASN	CA-CB	5.64	1.62	1.53
1	ig	198	CYS	CA-C	-5.64	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iv	224	PRO	C-N	5.64	1.40	1.33
1	iH	72	THR	CB-OG1	-5.64	1.34	1.43
1	iO	79	GLU	CA-C	5.64	1.60	1.52
1	iZ	81	ASP	C-O	-5.64	1.17	1.24
1	j4	226	HIS	CB-CG	-5.64	1.42	1.50
1	ji	17	PRO	CA-C	-5.64	1.44	1.52
1	jv	7	GLN	CA-C	-5.64	1.45	1.52
1	jZ	124	ILE	N-CA	5.64	1.50	1.46
1	1Z	12	HIS	CG-CD2	-5.64	1.29	1.35
1	k0	3	VAL	CA-CB	5.64	1.62	1.54
1	km	10	MET	N-CA	5.64	1.52	1.46
1	kT	76	GLU	CA-C	5.64	1.60	1.52
1	25	67	GLN	C-N	5.64	1.41	1.33
1	ls	174	ALA	CA-C	-5.64	1.44	1.52
1	lB	75	GLU	C-N	5.64	1.41	1.33
1	lC	66	MET	CA-C	5.64	1.60	1.52
1	2f	206	GLY	CA-C	5.64	1.59	1.51
1	2G	39	MET	C-N	5.64	1.41	1.33
1	4V	186	THR	C-N	5.64	1.42	1.33
1	5F	223	GLY	CA-C	5.64	1.59	1.51
1	6R	199	LYS	CA-C	-5.64	1.45	1.52
1	74	68	MET	CA-CB	5.64	1.62	1.53
1	7l	75	GLU	CA-CB	5.64	1.62	1.53
1	7Y	213	GLU	CA-C	5.64	1.60	1.52
1	84	213	GLU	CA-C	5.64	1.59	1.52
1	8Q	92	GLU	CA-CB	5.64	1.61	1.53
1	9c	142	VAL	CA-CB	5.64	1.60	1.54
1	9e	142	VAL	CA-C	-5.64	1.45	1.52
1	9v	44	SER	C-N	5.64	1.41	1.33
1	9D	152	ASP	N-CA	-5.64	1.38	1.46
1	9H	143	ARG	CD-NE	5.64	1.54	1.46
1	9L	53	ASN	CA-C	5.64	1.60	1.52
1	9Z	53	ASN	C-N	5.64	1.41	1.33
1	aa	84	HIS	CA-CB	5.64	1.61	1.53
1	am	190	LEU	CA-CB	5.64	1.62	1.53
1	ap	92	GLU	CA-C	5.64	1.59	1.53
1	aF	90	PRO	N-CA	-5.64	1.39	1.47
1	aL	92	GLU	CA-C	5.64	1.59	1.52
1	aM	84	HIS	CA-CB	5.64	1.59	1.53
1	16	196	PRO	N-CA	-5.64	1.40	1.47
1	bc	138	LEU	N-CA	-5.64	1.39	1.46
1	bc	226	HIS	ND1-CE1	5.64	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bQ	212	GLU	CA-C	-5.64	1.45	1.52
1	ck	165	VAL	CA-CB	-5.64	1.47	1.54
1	cn	157	PRO	CA-CB	5.64	1.61	1.53
1	cA	108	THR	CA-C	-5.64	1.45	1.52
1	cA	192	GLN	C-O	-5.64	1.17	1.24
1	cN	183	ASN	CA-C	5.64	1.60	1.52
1	cX	26	VAL	CA-CB	-5.64	1.48	1.54
1	dk	212	GLU	CA-CB	5.64	1.62	1.53
1	dp	151	LEU	C-N	5.64	1.42	1.33
1	ds	150	ILE	CB-CG1	5.64	1.64	1.53
1	dt	25	LYS	C-N	5.64	1.41	1.34
1	dx	22	ALA	C-N	5.64	1.41	1.33
1	dJ	23	TRP	CZ2-CH2	5.64	1.48	1.37
1	dJ	73	ILE	CA-C	-5.64	1.45	1.52
1	ef	12	HIS	CE1-NE2	-5.64	1.26	1.32
1	ek	81	ASP	CA-CB	5.64	1.62	1.53
1	eR	87	HIS	CA-CB	5.64	1.64	1.53
1	f6	64	ALA	C-O	-5.64	1.17	1.24
1	ff	110	THR	CA-C	-5.64	1.45	1.53
1	1w	125	PRO	CA-CB	-5.64	1.45	1.53
1	fn	12	HIS	CD2-NE2	5.64	1.44	1.37
1	fr	77	ALA	CA-C	5.64	1.60	1.52
1	fZ	30	LYS	CA-CB	5.64	1.62	1.54
1	e	131	LYS	N-CA	-5.64	1.39	1.46
1	e	172	LEU	CA-C	5.64	1.59	1.52
1	r	157	PRO	N-CD	-5.64	1.39	1.47
1	v	149	SER	C-N	5.64	1.40	1.34
1	I	111	LEU	N-CA	-5.64	1.39	1.46
1	P	189	LEU	CA-C	-5.64	1.45	1.52
1	gd	41	SER	CA-CB	5.64	1.62	1.53
1	gg	211	LEU	CA-CB	5.64	1.62	1.53
1	1F	39	MET	N-CA	-5.64	1.39	1.46
1	he	120	HIS	CA-C	5.64	1.60	1.53
1	i1	51	ASP	C-O	-5.64	1.17	1.24
1	ib	99	PRO	CA-C	-5.64	1.47	1.52
1	iB	154	ARG	CA-CB	5.64	1.60	1.53
1	iT	52	LEU	C-N	5.64	1.41	1.33
1	ja	206	GLY	CA-C	5.64	1.59	1.51
1	kI	5	ASN	N-CA	5.64	1.53	1.46
1	kJ	196	PRO	CA-CB	5.64	1.61	1.53
1	kU	64	ALA	CA-C	-5.64	1.45	1.52
1	25	184	TRP	CA-C	5.64	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l0	197	ASP	CA-CB	5.64	1.62	1.53
1	lf	143	ARG	C-O	-5.64	1.17	1.24
1	lI	173	ARG	CA-CB	5.64	1.62	1.53
1	2M	81	ASP	CA-C	5.64	1.60	1.52
1	3Z	54	THR	CA-CB	-5.64	1.44	1.53
1	4G	47	ALA	CA-CB	5.64	1.62	1.53
1	4T	172	LEU	C-O	-5.64	1.17	1.24
1	53	55	MET	C-N	-5.64	1.26	1.33
1	5a	8	GLY	C-N	5.64	1.40	1.33
1	5g	45	GLU	C-N	5.64	1.41	1.33
1	5O	201	ILE	CA-CB	5.64	1.61	1.54
1	6f	96	MET	C-N	-5.64	1.26	1.33
1	6j	26	VAL	N-CA	5.64	1.53	1.46
1	6l	37	ILE	CA-CB	5.64	1.57	1.54
1	7M	40	PHE	CA-CB	5.64	1.62	1.53
1	7R	41	SER	CA-CB	5.64	1.62	1.53
1	8g	147	PRO	CA-C	5.64	1.57	1.52
1	8P	87	HIS	CA-CB	5.64	1.62	1.53
1	9E	87	HIS	ND1-CE1	5.64	1.38	1.32
1	bI	87	HIS	CD2-NE2	5.64	1.44	1.37
1	ck	129	ILE	C-N	5.64	1.41	1.34
1	d4	113	GLU	CA-CB	5.64	1.62	1.53
1	dg	141	ILE	CA-CB	5.64	1.60	1.54
1	dP	185	MET	CA-CB	5.64	1.62	1.53
1	dQ	149	SER	C-N	5.64	1.41	1.33
1	e0	221	VAL	CA-C	5.64	1.60	1.52
1	f8	164	TYR	C-O	-5.64	1.17	1.24
1	1x	208	ALA	CA-CB	5.64	1.60	1.53
1	fJ	45	GLU	CA-CB	5.64	1.62	1.53
1	1A	185	MET	C-N	5.64	1.41	1.33
1	gB	90	PRO	CA-CB	5.64	1.60	1.53
1	gK	227	LYS	N-CA	-5.64	1.39	1.46
1	gM	189	LEU	CA-C	5.64	1.59	1.52
1	hb	210	THR	N-CA	-5.64	1.38	1.45
1	hY	35	GLU	C-N	5.64	1.41	1.33
1	if	145	TYR	CA-CB	5.64	1.63	1.53
1	is	165	VAL	C-N	5.64	1.41	1.33
1	iv	199	LYS	CA-CB	5.64	1.62	1.53
1	iz	22	ALA	CA-C	5.64	1.59	1.52
1	iS	32	PHE	CA-CB	5.64	1.61	1.53
1	iS	200	THR	CA-CB	5.64	1.62	1.53
1	ja	141	ILE	CA-CB	-5.64	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jn	193	ASN	CA-CB	5.64	1.62	1.53
1	jL	159	GLU	C-N	5.64	1.41	1.33
1	kq	195	ASN	C-N	5.64	1.40	1.33
1	kr	158	LYS	CA-C	5.64	1.60	1.52
1	lz	12	HIS	CE1-NE2	-5.64	1.26	1.32
1	lN	165	VAL	CA-CB	5.64	1.61	1.54
1	lP	153	ILE	CA-C	-5.64	1.46	1.53
1	2j	123	PRO	N-CA	5.64	1.53	1.47
1	2k	96	MET	N-CA	5.64	1.52	1.46
1	2S	65	ALA	C-O	-5.64	1.17	1.24
1	2V	67	GLN	CA-CB	5.64	1.62	1.53
1	3e	14	ALA	N-CA	-5.64	1.39	1.46
1	3S	80	TRP	C-O	-5.64	1.17	1.24
1	47	24	VAL	CA-C	5.64	1.59	1.52
1	4b	203	LYS	CA-CB	5.64	1.62	1.53
1	4w	121	ASN	CA-C	5.64	1.59	1.52
1	4P	131	LYS	CA-C	5.64	1.60	1.52
1	5P	119	THR	C-N	5.64	1.40	1.33
1	6e	172	LEU	CA-CB	5.64	1.63	1.53
1	6i	168	PHE	C-N	5.64	1.41	1.33
1	6x	120	HIS	ND1-CE1	5.64	1.38	1.32
1	7a	67	GLN	CA-C	-5.64	1.45	1.52
1	7O	130	TYR	C-N	5.64	1.41	1.34
1	83	223	GLY	N-CA	5.64	1.52	1.44
1	8b	87	HIS	CE1-NE2	5.64	1.38	1.32
1	8o	64	ALA	CA-C	5.64	1.60	1.52
1	8r	74	ASN	CA-C	-5.64	1.45	1.52
1	8P	58	THR	CA-C	5.64	1.60	1.52
1	9e	121	ASN	CA-CB	5.64	1.65	1.54
1	9L	59	VAL	CA-C	-5.64	1.46	1.52
1	9O	37	ILE	CA-C	5.64	1.57	1.52
1	9S	141	ILE	C-O	-5.64	1.17	1.24
1	9U	154	ARG	C-O	-5.64	1.17	1.23
1	9W	84	HIS	CB-CG	5.64	1.58	1.50
1	ad	188	THR	N-CA	5.64	1.53	1.46
1	aY	70	LYS	CA-CB	-5.64	1.44	1.53
1	ba	111	LEU	CA-C	5.64	1.60	1.52
1	ba	168	PHE	C-O	-5.64	1.17	1.24
1	bg	93	PRO	N-CA	-5.64	1.40	1.47
1	bg	99	PRO	CA-CB	5.64	1.61	1.53
1	bq	89	GLY	N-CA	5.64	1.52	1.44
1	cx	177	ALA	N-CA	-5.64	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cD	226	HIS	ND1-CE1	5.64	1.38	1.32
1	cF	172	LEU	N-CA	-5.64	1.38	1.46
1	dq	68	MET	CA-C	5.64	1.59	1.52
1	dO	12	HIS	ND1-CE1	5.64	1.38	1.32
1	dU	221	VAL	N-CA	5.64	1.52	1.46
1	dW	210	THR	CA-CB	5.64	1.62	1.53
1	dX	135	ILE	N-CA	5.64	1.53	1.46
1	ec	143	ARG	NE-CZ	5.64	1.39	1.33
1	1q	47	ALA	CA-C	-5.64	1.45	1.52
1	er	146	SER	CA-C	5.64	1.59	1.52
1	fJ	87	HIS	CB-CG	5.64	1.58	1.50
1	fM	45	GLU	C-N	5.64	1.40	1.33
1	fM	68	MET	CA-CB	5.64	1.62	1.53
1	fM	110	THR	CA-CB	-5.64	1.44	1.53
1	fU	182	LYS	C-N	5.64	1.41	1.33
1	e	126	VAL	CA-CB	-5.64	1.47	1.54
1	g	181	VAL	N-CA	5.64	1.53	1.46
1	l	220	GLY	C-N	5.64	1.41	1.33
1	2	31	ALA	CA-C	-5.64	1.44	1.52
1	u	213	GLU	CA-CB	5.64	1.62	1.53
1	N	101	GLY	CA-C	-5.64	1.45	1.52
1	5	10	MET	N-CA	-5.64	1.40	1.46
1	8	230	VAL	CA-CB	5.64	1.62	1.54
1	gr	5	ASN	N-CA	5.63	1.53	1.46
1	gw	12	HIS	CG-ND1	5.63	1.44	1.38
1	gP	149	SER	C-N	5.63	1.41	1.33
1	gT	35	GLU	C-N	5.63	1.41	1.33
1	gY	207	PRO	N-CA	-5.63	1.40	1.47
1	h9	62	HIS	ND1-CE1	-5.63	1.26	1.32
1	1I	84	HIS	C-O	-5.63	1.19	1.25
1	1I	192	GLN	C-N	5.63	1.41	1.33
1	hI	101	GLY	CA-C	-5.63	1.44	1.51
1	hM	14	ALA	CA-C	5.63	1.59	1.52
1	1N	165	VAL	CA-C	5.63	1.59	1.52
1	ig	216	THR	CA-CB	-5.63	1.44	1.53
1	ip	146	SER	CA-C	5.63	1.59	1.53
1	ir	62	HIS	ND1-CE1	5.63	1.38	1.32
1	iF	7	GLN	C-N	5.63	1.39	1.33
1	jk	193	ASN	CA-C	5.63	1.60	1.52
1	jv	221	VAL	CA-CB	5.63	1.61	1.54
1	jD	87	HIS	CD2-NE2	5.63	1.44	1.37
1	jF	81	ASP	CA-CB	5.63	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jK	209	ALA	CA-C	5.63	1.60	1.52
1	kz	209	ALA	CA-C	5.63	1.59	1.52
1	kI	18	ARG	CA-C	5.63	1.60	1.52
1	kO	100	ARG	C-N	5.63	1.41	1.33
1	lj	202	LEU	CA-CB	5.63	1.62	1.53
1	lt	123	PRO	N-CA	5.63	1.54	1.47
1	lC	192	GLN	CA-CB	5.63	1.62	1.53
1	lD	30	LYS	C-N	5.63	1.41	1.34
1	2r	35	GLU	C-N	5.63	1.41	1.33
1	2r	65	ALA	CA-CB	5.63	1.62	1.53
1	2r	127	GLY	C-N	5.63	1.41	1.33
1	2U	86	VAL	CA-C	-5.63	1.45	1.52
1	2W	165	VAL	C-N	5.63	1.42	1.33
1	2Z	150	ILE	CA-C	5.63	1.59	1.52
1	2Z	222	GLY	CA-C	-5.63	1.43	1.51
1	3m	112	GLN	N-CA	-5.63	1.39	1.46
1	4j	143	ARG	N-CA	-5.63	1.39	1.46
1	4z	27	VAL	N-CA	-5.63	1.39	1.46
1	5n	125	PRO	C-N	5.63	1.41	1.34
1	5t	160	PRO	C-O	5.63	1.30	1.23
1	5J	225	GLY	N-CA	-5.63	1.39	1.45
1	5U	189	LEU	N-CA	5.63	1.53	1.46
1	5V	149	SER	CA-CB	5.63	1.62	1.53
1	65	48	THR	CA-C	5.63	1.60	1.52
1	67	42	ALA	CA-C	-5.63	1.45	1.52
1	6i	114	GLN	CA-C	-5.63	1.45	1.52
1	6q	202	LEU	CA-C	5.63	1.60	1.52
1	7l	189	LEU	C-N	5.63	1.42	1.33
1	7r	120	HIS	CG-ND1	-5.63	1.32	1.38
1	7A	228	ALA	CA-C	-5.63	1.45	1.52
1	7O	138	LEU	C-N	5.63	1.41	1.33
1	7Y	216	THR	C-N	5.63	1.40	1.33
1	8a	26	VAL	C-N	5.63	1.41	1.33
1	8Q	62	HIS	CE1-NE2	5.63	1.38	1.32
1	8S	74	ASN	C-N	5.63	1.41	1.33
1	9a	166	ASP	C-N	5.63	1.41	1.34
1	9p	180	GLU	CA-C	-5.63	1.45	1.52
1	9D	6	LEU	C-O	-5.63	1.17	1.24
1	ab	152	ASP	N-CA	-5.63	1.39	1.46
1	ap	201	ILE	N-CA	-5.63	1.39	1.46
1	12	30	LYS	C-N	5.63	1.41	1.33
1	aC	97	ARG	CA-C	-5.63	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	14	80	TRP	C-N	5.63	1.41	1.33
1	b2	47	ALA	N-CA	-5.63	1.39	1.46
1	bj	51	ASP	CA-C	-5.63	1.45	1.52
1	bL	97	ARG	N-CA	-5.63	1.38	1.45
1	bQ	79	GLU	CA-CB	5.63	1.62	1.53
1	ce	143	ARG	CA-C	5.63	1.60	1.52
1	1e	141	ILE	C-N	5.63	1.41	1.33
1	1g	33	SER	N-CA	5.63	1.51	1.46
1	cO	9	GLN	C-N	5.63	1.41	1.33
1	cS	67	GLN	C-N	5.63	1.41	1.33
1	cV	22	ALA	CA-CB	5.63	1.62	1.53
1	d4	190	LEU	C-N	5.63	1.40	1.33
1	dq	170	LYS	N-CA	-5.63	1.39	1.46
1	dv	107	THR	C-N	5.63	1.42	1.33
1	1l	65	ALA	CA-CB	5.63	1.62	1.53
1	1l	174	ALA	N-CA	-5.63	1.39	1.46
1	dz	118	MET	CA-C	5.63	1.60	1.52
1	dH	154	ARG	CD-NE	5.63	1.54	1.46
1	dJ	150	ILE	N-CA	-5.63	1.38	1.46
1	1n	185	MET	C-N	-5.63	1.26	1.33
1	dT	9	GLN	C-O	-5.63	1.17	1.23
1	dX	4	GLN	CA-C	5.63	1.60	1.53
1	e0	163	ASP	CA-C	5.63	1.60	1.52
1	ep	120	HIS	ND1-CE1	5.63	1.38	1.32
1	f6	14	ALA	CA-C	5.63	1.60	1.53
1	1y	164	TYR	N-CA	-5.63	1.39	1.46
1	fF	57	ASN	C-N	5.63	1.42	1.33
1	fG	82	ARG	C-O	-5.63	1.17	1.24
1	fI	161	PHE	N-CA	-5.63	1.39	1.46
1	fK	28	GLU	N-CA	5.63	1.53	1.45
1	fY	76	GLU	N-CA	-5.63	1.39	1.46
1	g7	131	LYS	C-N	5.63	1.41	1.33
1	p	184	TRP	NE1-CE2	5.63	1.43	1.37
1	J	188	THR	C-N	5.63	1.41	1.33
1	Q	32	PHE	C-N	5.63	1.39	1.33
1	T	123	PRO	C-N	5.63	1.38	1.33
1	9	178	SER	C-O	-5.63	1.17	1.23
1	gk	120	HIS	ND1-CE1	5.63	1.38	1.32
1	gD	26	VAL	C-N	5.63	1.41	1.33
1	h6	82	ARG	CD-NE	5.63	1.54	1.46
1	hg	51	ASP	C-N	5.63	1.42	1.33
1	hv	84	HIS	CB-CG	5.63	1.58	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hH	15	ILE	CA-C	5.63	1.59	1.52
1	hN	226	HIS	ND1-CE1	5.63	1.38	1.32
1	hP	171	THR	CA-CB	-5.63	1.44	1.53
1	hP	228	ALA	N-CA	-5.63	1.39	1.45
1	jf	185	MET	CA-CB	5.63	1.62	1.53
1	jn	87	HIS	CA-C	5.63	1.60	1.52
1	kd	91	ILE	CA-C	-5.63	1.45	1.52
1	ke	62	HIS	CA-C	-5.63	1.46	1.53
1	kq	167	ARG	N-CA	5.63	1.53	1.46
1	kE	48	THR	N-CA	5.63	1.53	1.45
1	lz	89	GLY	CA-C	5.63	1.59	1.51
1	lJ	45	GLU	CA-C	5.63	1.60	1.52
1	lK	1	PRO	N-CD	5.63	1.55	1.47
1	lQ	199	LYS	CA-CB	5.63	1.62	1.53
1	3u	123	PRO	CA-C	-5.63	1.44	1.52
1	3J	202	LEU	CA-CB	5.63	1.62	1.53
1	4o	190	LEU	CA-CB	-5.63	1.44	1.53
1	4o	222	GLY	CA-C	-5.63	1.45	1.52
1	5z	23	TRP	CA-C	5.63	1.60	1.52
1	6a	102	SER	CA-CB	5.63	1.62	1.53
1	6D	72	THR	N-CA	5.63	1.53	1.46
1	73	87	HIS	ND1-CE1	5.63	1.38	1.32
1	7e	227	LYS	CA-C	5.63	1.60	1.52
1	7i	152	ASP	CA-C	5.63	1.60	1.52
1	7v	172	LEU	CA-C	5.63	1.60	1.52
1	9q	219	GLN	CA-C	-5.63	1.45	1.52
1	aq	192	GLN	CA-CB	5.63	1.62	1.53
1	aG	79	GLU	CA-CB	5.63	1.62	1.53
1	aJ	143	ARG	N-CA	5.63	1.53	1.46
1	ba	8	GLY	C-N	5.63	1.41	1.33
1	bc	209	ALA	CA-C	5.63	1.60	1.52
1	cc	144	MET	CA-C	5.63	1.59	1.52
1	cf	195	ASN	CA-CB	5.63	1.61	1.53
1	cO	19	THR	C-N	5.63	1.41	1.33
1	d2	195	ASN	CA-C	5.63	1.59	1.53
1	e8	102	SER	C-N	5.63	1.41	1.33
1	1r	97	ARG	CD-NE	5.63	1.54	1.46
1	eE	161	PHE	C-N	5.63	1.41	1.33
1	eR	173	ARG	CD-NE	5.63	1.54	1.46
1	fb	93	PRO	N-CD	-5.63	1.39	1.47
1	fF	97	ARG	C-O	-5.63	1.16	1.23
1	k	38	PRO	C-O	-5.63	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gh	226	HIS	C-N	5.63	1.41	1.33
1	gi	105	ALA	C-N	5.63	1.40	1.33
1	gj	28	GLU	C-N	5.63	1.42	1.33
1	gx	140	LYS	N-CA	-5.63	1.39	1.46
1	gI	181	VAL	CA-CB	5.63	1.61	1.54
1	gM	57	ASN	C-N	5.63	1.41	1.33
1	gO	120	HIS	ND1-CE1	5.63	1.38	1.32
1	gV	154	ARG	C-N	5.63	1.41	1.33
1	h0	140	LYS	N-CA	5.63	1.53	1.46
1	hy	2	ILE	CA-C	5.63	1.59	1.52
1	hL	218	CYS	C-N	5.63	1.41	1.33
1	il	94	GLY	N-CA	5.63	1.53	1.45
1	iJ	55	MET	C-N	5.63	1.41	1.33
1	j6	186	THR	CA-C	5.63	1.60	1.52
1	je	32	PHE	CA-CB	5.63	1.60	1.52
1	jp	23	TRP	NE1-CE2	-5.63	1.31	1.37
1	jv	157	PRO	CA-CB	5.63	1.61	1.53
1	jD	3	VAL	CA-CB	5.63	1.61	1.54
1	jE	162	ARG	CD-NE	5.63	1.54	1.46
1	kj	49	PRO	CA-CB	-5.63	1.45	1.53
1	ks	22	ALA	CA-C	-5.63	1.45	1.52
1	kB	51	ASP	N-CA	5.63	1.53	1.46
1	kF	177	ALA	CA-C	5.63	1.60	1.52
1	kK	15	ILE	N-CA	-5.63	1.40	1.46
1	kK	188	THR	CA-C	-5.63	1.45	1.52
1	kM	225	GLY	CA-C	5.63	1.59	1.51
1	27	83	LEU	CA-CB	5.63	1.62	1.53
1	28	167	ARG	C-N	5.63	1.41	1.33
1	lt	95	GLN	CA-C	-5.63	1.46	1.52
1	lu	38	PRO	CA-CB	5.63	1.61	1.53
1	lz	125	PRO	C-N	5.63	1.41	1.33
1	2f	35	GLU	C-N	5.63	1.41	1.33
1	2E	42	ALA	C-N	5.63	1.41	1.34
1	2E	211	LEU	N-CA	-5.63	1.39	1.46
1	2H	128	GLU	C-N	5.63	1.41	1.33
1	2H	181	VAL	CA-CB	-5.63	1.47	1.54
1	2I	138	LEU	CA-C	-5.63	1.45	1.52
1	30	18	ARG	CZ-NH2	-5.63	1.26	1.33
1	3d	131	LYS	C-N	5.63	1.41	1.33
1	3G	213	GLU	C-N	5.63	1.41	1.33
1	4j	162	ARG	CZ-NH1	-5.63	1.24	1.32
1	4n	123	PRO	C-N	5.63	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4u	208	ALA	CA-C	-5.63	1.45	1.52
1	4R	110	THR	N-CA	5.63	1.53	1.45
1	51	179	GLN	C-N	5.63	1.41	1.33
1	53	124	ILE	N-CA	-5.63	1.39	1.46
1	55	92	GLU	C-N	-5.63	1.27	1.33
1	5e	160	PRO	CA-CB	5.63	1.61	1.53
1	5g	133	TRP	CA-C	-5.63	1.45	1.52
1	5u	58	THR	C-O	-5.63	1.17	1.24
1	60	21	ASN	C-N	5.63	1.41	1.33
1	60	184	TRP	CA-CB	5.63	1.62	1.53
1	6r	80	TRP	CA-CB	5.63	1.62	1.53
1	6G	204	ALA	CA-CB	5.63	1.62	1.53
1	6J	130	TYR	CA-C	5.63	1.60	1.52
1	6Q	62	HIS	CG-ND1	-5.63	1.32	1.38
1	6R	212	GLU	CA-C	5.63	1.60	1.52
1	6U	203	LYS	CA-C	5.63	1.60	1.52
1	76	193	ASN	CA-C	5.63	1.59	1.52
1	7T	42	ALA	C-O	-5.63	1.17	1.24
1	7X	151	LEU	N-CA	-5.63	1.38	1.46
1	8N	166	ASP	CA-CB	5.63	1.62	1.53
1	8O	226	HIS	CB-CG	5.63	1.58	1.50
1	9o	79	GLU	C-N	5.63	1.41	1.33
1	9s	134	ILE	CA-CB	5.63	1.61	1.54
1	9C	109	SER	C-N	5.63	1.41	1.33
1	a8	100	ARG	CZ-NH2	-5.63	1.26	1.33
1	ak	117	TRP	CA-C	-5.63	1.45	1.52
1	aI	76	GLU	C-N	5.63	1.41	1.33
1	aR	53	ASN	CA-CB	5.63	1.62	1.53
1	bC	52	LEU	C-O	5.63	1.30	1.24
1	bT	228	ALA	CA-C	5.63	1.59	1.52
1	cB	141	ILE	C-N	5.63	1.41	1.33
1	cM	187	GLU	CA-C	5.63	1.60	1.52
1	d0	51	ASP	N-CA	-5.63	1.39	1.46
1	dd	222	GLY	CA-C	-5.63	1.44	1.51
1	de	189	LEU	CA-CB	5.63	1.62	1.53
1	dO	226	HIS	ND1-CE1	5.63	1.38	1.32
1	e9	222	GLY	C-N	5.63	1.41	1.33
1	eA	120	HIS	CA-CB	5.63	1.62	1.53
1	eC	35	GLU	C-N	5.63	1.41	1.33
1	eV	20	LEU	N-CA	-5.63	1.39	1.46
1	f0	88	ALA	CA-C	5.63	1.59	1.52
1	fa	213	GLU	CA-C	5.63	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fd	21	ASN	N-CA	-5.63	1.39	1.46
1	fi	48	THR	N-CA	5.63	1.52	1.46
1	fu	26	VAL	N-CA	-5.63	1.39	1.46
1	g3	185	MET	C-N	5.63	1.41	1.33
1	g	100	ARG	CD-NE	5.63	1.54	1.46
1	i	54	THR	CA-CB	-5.63	1.44	1.53
1	y	10	MET	C-N	5.63	1.40	1.34
1	g9	204	ALA	N-CA	5.63	1.53	1.46
1	1C	75	GLU	C-O	5.63	1.30	1.24
1	gR	36	VAL	C-O	-5.63	1.17	1.24
1	1H	4	GLN	CA-C	-5.63	1.46	1.52
1	hn	120	HIS	C-N	5.63	1.40	1.33
1	i0	80	TRP	N-CA	-5.63	1.39	1.46
1	ie	84	HIS	CE1-NE2	-5.63	1.26	1.32
1	ih	80	TRP	CA-CB	5.63	1.62	1.53
1	ih	136	LEU	CB-CG	5.63	1.64	1.53
1	io	123	PRO	CA-C	5.63	1.59	1.52
1	iv	229	ARG	CA-CB	5.63	1.61	1.53
1	iR	132	ARG	C-O	-5.63	1.17	1.24
1	iV	87	HIS	ND1-CE1	5.63	1.38	1.32
1	j2	25	LYS	CA-C	-5.63	1.45	1.52
1	jg	38	PRO	CA-CB	5.63	1.61	1.53
1	jt	229	ARG	N-CA	-5.63	1.38	1.46
1	jV	171	THR	N-CA	-5.63	1.39	1.46
1	ld	9	GLN	CA-CB	5.63	1.62	1.53
1	lt	114	GLN	N-CA	-5.63	1.39	1.46
1	29	224	PRO	CA-C	-5.63	1.44	1.52
1	lF	80	TRP	N-CA	-5.63	1.39	1.46
1	2j	59	VAL	N-CA	-5.63	1.39	1.46
1	2V	59	VAL	C-O	-5.63	1.18	1.23
1	33	162	ARG	CD-NE	5.63	1.54	1.46
1	4v	42	ALA	N-CA	-5.63	1.39	1.46
1	62	144	MET	SD-CE	-5.63	1.65	1.79
1	7J	183	ASN	N-CA	-5.63	1.39	1.46
1	81	221	VAL	CA-CB	-5.63	1.47	1.54
1	83	62	HIS	C-N	5.63	1.41	1.34
1	8q	12	HIS	CG-ND1	-5.63	1.32	1.38
1	8s	103	ASP	CA-CB	5.63	1.62	1.53
1	8v	18	ARG	C-N	5.63	1.41	1.33
1	92	45	GLU	CA-C	5.63	1.60	1.52
1	9o	159	GLU	CA-CB	5.63	1.62	1.52
1	9t	173	ARG	CD-NE	5.63	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9X	203	LYS	N-CA	5.63	1.53	1.46
1	ae	108	THR	CA-C	-5.63	1.45	1.52
1	aQ	55	MET	CA-C	-5.63	1.45	1.52
1	b6	190	LEU	CA-CB	5.63	1.62	1.53
1	bo	26	VAL	C-N	5.63	1.41	1.33
1	bL	12	HIS	CE1-NE2	5.63	1.38	1.32
1	cf	142	VAL	C-O	5.63	1.30	1.24
1	cs	18	ARG	CA-CB	5.63	1.62	1.53
1	cL	133	TRP	C-N	5.63	1.41	1.33
1	cS	92	GLU	CA-C	5.63	1.59	1.53
1	cS	212	GLU	CA-C	5.63	1.60	1.52
1	da	17	PRO	N-CA	-5.63	1.40	1.47
1	dl	181	VAL	CA-C	-5.63	1.45	1.52
1	dy	11	VAL	CA-CB	-5.63	1.48	1.54
1	dL	70	LYS	CA-CB	5.63	1.62	1.53
1	et	180	GLU	C-N	5.63	1.40	1.33
1	eB	104	ILE	C-N	5.63	1.42	1.33
1	eE	92	GLU	CA-C	5.63	1.58	1.53
1	gf	16	SER	C-N	-5.63	1.27	1.34
1	gl	162	ARG	N-CA	5.63	1.53	1.46
1	gv	143	ARG	CA-C	5.63	1.60	1.52
1	1E	53	ASN	N-CA	5.63	1.53	1.46
1	gL	12	HIS	ND1-CE1	5.63	1.38	1.32
1	gV	73	ILE	CA-C	5.63	1.60	1.52
1	gZ	202	LEU	CA-C	-5.63	1.45	1.52
1	h3	120	HIS	CG-CD2	5.63	1.42	1.35
1	h8	104	ILE	CA-CB	5.63	1.61	1.54
1	hh	26	VAL	CA-CB	-5.63	1.47	1.54
1	hH	53	ASN	C-N	5.63	1.41	1.33
1	hX	168	PHE	CB-CG	5.63	1.63	1.50
1	il	104	ILE	CA-C	-5.63	1.45	1.52
1	iI	105	ALA	N-CA	-5.63	1.38	1.46
1	j3	142	VAL	C-N	5.63	1.41	1.33
1	jD	104	ILE	CA-C	5.63	1.59	1.52
1	jN	174	ALA	CA-C	5.63	1.60	1.52
1	kp	167	ARG	CA-CB	5.63	1.62	1.53
1	ky	117	TRP	CA-CB	5.63	1.62	1.53
1	kN	212	GLU	N-CA	-5.63	1.39	1.46
1	l5	149	SER	C-N	5.63	1.40	1.34
1	l9	54	THR	N-CA	-5.63	1.39	1.46
1	le	128	GLU	CA-C	-5.63	1.45	1.52
1	lG	90	PRO	CA-C	5.63	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lN	82	ARG	CA-CB	5.63	1.62	1.53
1	2w	41	SER	N-CA	-5.63	1.39	1.46
1	2y	62	HIS	ND1-CE1	5.63	1.38	1.32
1	2F	142	VAL	C-N	5.63	1.41	1.33
1	3w	182	LYS	N-CA	5.63	1.53	1.46
1	3z	21	ASN	N-CA	-5.63	1.39	1.46
1	3I	162	ARG	CA-C	5.63	1.59	1.52
1	3L	26	VAL	CA-CB	-5.63	1.47	1.54
1	3O	189	LEU	CA-C	5.63	1.60	1.52
1	4T	125	PRO	CA-C	-5.63	1.48	1.53
1	5d	126	VAL	N-CA	-5.63	1.39	1.46
1	5Q	132	ARG	C-N	5.63	1.41	1.33
1	5V	162	ARG	N-CA	-5.63	1.39	1.46
1	5X	81	ASP	C-N	5.63	1.41	1.33
1	5Y	180	GLU	C-O	5.63	1.30	1.24
1	6z	194	ALA	C-O	-5.63	1.17	1.23
1	6B	68	MET	C-N	5.63	1.41	1.33
1	6E	147	PRO	C-N	5.63	1.40	1.33
1	71	41	SER	CA-CB	5.63	1.62	1.53
1	7d	224	PRO	C-N	5.63	1.39	1.33
1	7I	1	PRO	N-CD	5.63	1.55	1.47
1	7L	97	ARG	CD-NE	5.63	1.54	1.46
1	7N	186	THR	C-N	5.63	1.42	1.33
1	8e	99	PRO	CA-C	5.63	1.58	1.52
1	8Y	26	VAL	C-N	5.63	1.40	1.34
1	9i	130	TYR	CA-C	5.63	1.60	1.52
1	9k	64	ALA	CA-CB	-5.63	1.44	1.53
1	9l	166	ASP	CA-C	5.63	1.60	1.52
1	10	193	ASN	C-N	5.63	1.41	1.33
1	ay	87	HIS	CE1-NE2	-5.63	1.26	1.32
1	aF	129	ILE	CA-C	-5.63	1.46	1.52
1	b5	121	ASN	C-N	5.63	1.45	1.34
1	bf	171	THR	CA-C	-5.63	1.45	1.52
1	bW	117	TRP	N-CA	5.63	1.53	1.46
1	c7	178	SER	CA-C	5.63	1.60	1.52
1	co	216	THR	CB-OG1	-5.63	1.34	1.43
1	cF	136	LEU	N-CA	5.63	1.53	1.46
1	d6	23	TRP	N-CA	-5.63	1.39	1.46
1	df	113	GLU	CA-CB	5.63	1.62	1.53
1	dt	124	ILE	CA-C	5.63	1.57	1.53
1	dx	142	VAL	CA-C	5.63	1.59	1.52
1	dC	74	ASN	CA-C	5.63	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dF	173	ARG	NE-CZ	5.63	1.39	1.33
1	e6	71	GLU	C-N	5.63	1.41	1.33
1	e6	186	THR	CA-C	5.63	1.60	1.52
1	eg	41	SER	CA-CB	5.63	1.62	1.53
1	ew	133	TRP	CA-C	-5.63	1.45	1.52
1	eH	142	VAL	CA-CB	-5.63	1.48	1.54
1	eL	170	LYS	CA-CB	5.63	1.62	1.53
1	eY	9	GLN	CA-CB	5.63	1.60	1.53
1	fb	77	ALA	N-CA	5.63	1.53	1.46
1	fk	142	VAL	CA-C	5.63	1.59	1.52
1	fs	73	ILE	CA-C	-5.63	1.46	1.52
1	fN	221	VAL	CA-CB	-5.63	1.47	1.54
1	fP	17	PRO	N-CA	-5.63	1.40	1.47
1	1	187	GLU	CA-CB	5.63	1.62	1.53
1	B	178	SER	CA-CB	5.63	1.62	1.53
1	4	33	SER	CA-CB	5.63	1.62	1.53
1	9	135	ILE	C-N	5.63	1.41	1.33
1	gt	85	PRO	N-CD	5.63	1.55	1.47
1	gw	184	TRP	C-N	5.63	1.41	1.33
1	gP	49	PRO	N-CA	-5.63	1.40	1.47
1	h4	21	ASN	N-CA	-5.63	1.39	1.46
1	1L	104	ILE	CA-CB	5.63	1.61	1.54
1	hQ	4	GLN	CA-CB	5.63	1.60	1.53
1	i7	134	ILE	C-N	5.63	1.40	1.34
1	ii	171	THR	C-N	5.63	1.41	1.34
1	iv	21	ASN	CA-C	-5.63	1.45	1.52
1	iE	195	ASN	C-N	5.63	1.41	1.34
1	iH	120	HIS	CA-CB	5.63	1.62	1.53
1	iM	87	HIS	ND1-CE1	5.63	1.38	1.32
1	iV	11	VAL	CA-C	5.63	1.59	1.52
1	iW	53	ASN	C-O	-5.63	1.17	1.24
1	1T	133	TRP	CA-C	-5.63	1.45	1.52
1	j5	135	ILE	CA-CB	-5.63	1.47	1.54
1	jz	185	MET	CA-C	-5.63	1.45	1.52
1	jA	133	TRP	NE1-CE2	-5.63	1.31	1.37
1	1X	101	GLY	CA-C	5.63	1.59	1.51
1	jI	63	GLN	CA-CB	5.63	1.63	1.53
1	kg	100	ARG	CD-NE	5.63	1.54	1.46
1	21	10	MET	C-N	5.63	1.40	1.33
1	kw	215	MET	CA-CB	5.63	1.63	1.53
1	kG	80	TRP	CA-CB	5.63	1.62	1.53
1	kS	154	ARG	CD-NE	5.63	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l1	56	LEU	CA-C	5.63	1.60	1.52
1	l6	149	SER	N-CA	-5.63	1.39	1.46
1	ln	229	ARG	CD-NE	5.63	1.54	1.46
1	lo	71	GLU	CA-CB	5.63	1.62	1.53
1	lq	136	LEU	C-O	-5.63	1.17	1.24
1	lv	128	GLU	C-N	5.63	1.41	1.33
1	lv	141	ILE	CA-CB	5.63	1.60	1.54
1	2j	174	ALA	C-N	5.63	1.41	1.33
1	2m	5	ASN	N-CA	-5.63	1.38	1.45
1	2R	21	ASN	C-N	5.63	1.41	1.33
1	2V	67	GLN	CA-C	5.63	1.60	1.52
1	2X	22	ALA	N-CA	5.63	1.53	1.46
1	3L	52	LEU	C-N	5.63	1.41	1.33
1	49	166	ASP	CA-C	5.63	1.59	1.52
1	4n	18	ARG	CD-NE	5.63	1.54	1.46
1	4w	5	ASN	CA-CB	5.63	1.60	1.53
1	50	210	THR	C-N	5.63	1.41	1.33
1	56	139	ASN	CA-CB	5.63	1.62	1.53
1	5m	177	ALA	CA-C	-5.63	1.45	1.52
1	5Q	162	ARG	CA-CB	5.63	1.62	1.53
1	6C	131	LYS	CA-C	5.63	1.60	1.52
1	6C	159	GLU	N-CA	5.63	1.53	1.45
1	6O	195	ASN	CA-C	5.63	1.59	1.53
1	7a	128	GLU	N-CA	-5.63	1.39	1.46
1	7u	24	VAL	N-CA	5.63	1.53	1.46
1	7K	200	THR	CA-C	-5.63	1.45	1.52
1	8n	120	HIS	CA-CB	5.63	1.62	1.53
1	9A	180	GLU	C-N	5.63	1.41	1.33
1	9Z	52	LEU	C-N	5.63	1.41	1.34
1	ad	221	VAL	CA-C	-5.63	1.45	1.52
1	11	170	LYS	CA-CB	5.63	1.62	1.53
1	b4	204	ALA	C-N	5.63	1.41	1.33
1	18	121	ASN	CA-C	5.63	1.59	1.52
1	bx	94	GLY	CA-C	-5.63	1.44	1.51
1	19	18	ARG	CZ-NH2	-5.63	1.26	1.33
1	c1	145	TYR	N-CA	-5.63	1.38	1.46
1	c2	52	LEU	N-CA	-5.63	1.39	1.46
1	cc	190	LEU	CA-C	-5.63	1.45	1.52
1	co	46	GLY	C-N	5.63	1.41	1.33
1	cv	138	LEU	CA-CB	5.63	1.62	1.53
1	1f	140	LYS	C-N	5.63	1.41	1.33
1	df	156	GLY	N-CA	5.63	1.52	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dv	182	LYS	N-CA	5.63	1.53	1.46
1	dC	132	ARG	NE-CZ	5.63	1.39	1.33
1	dD	86	VAL	CA-CB	5.63	1.60	1.54
1	et	14	ALA	C-N	5.63	1.40	1.33
1	eJ	52	LEU	N-CA	-5.63	1.39	1.46
1	f7	119	THR	C-N	5.63	1.41	1.33
1	1v	194	ALA	C-N	5.63	1.41	1.33
1	fb	189	LEU	CA-CB	5.63	1.62	1.53
1	fE	42	ALA	C-N	5.63	1.42	1.33
1	fM	156	GLY	C-N	-5.63	1.27	1.34
1	fP	73	ILE	C-N	5.63	1.41	1.33
1	g3	42	ALA	CA-C	-5.63	1.45	1.52
1	g4	27	VAL	CA-C	5.63	1.59	1.52
1	y	12	HIS	ND1-CE1	5.63	1.38	1.32
1	C	143	ARG	CA-CB	5.63	1.62	1.53
1	D	9	GLN	CA-C	-5.63	1.44	1.52
1	g9	126	VAL	C-N	5.62	1.41	1.33
1	gE	181	VAL	C-O	-5.62	1.16	1.24
1	1G	212	GLU	N-CA	-5.62	1.39	1.46
1	1G	220	GLY	CA-C	-5.62	1.44	1.51
1	1I	123	PRO	N-CD	-5.62	1.39	1.47
1	hx	112	GLN	CA-CB	5.62	1.63	1.53
1	hD	167	ARG	N-CA	-5.62	1.39	1.46
1	hL	147	PRO	N-CA	5.62	1.54	1.47
1	hT	226	HIS	C-N	5.62	1.41	1.33
1	i5	59	VAL	CA-CB	-5.62	1.47	1.53
1	iX	190	LEU	CA-CB	5.62	1.62	1.53
1	jy	39	MET	C-N	5.62	1.41	1.33
1	jz	46	GLY	CA-C	5.62	1.59	1.51
1	ke	143	ARG	CA-C	5.62	1.59	1.52
1	kr	179	GLN	N-CA	5.62	1.53	1.46
1	kW	156	GLY	CA-C	5.62	1.59	1.51
1	lv	87	HIS	ND1-CE1	5.62	1.38	1.32
1	lD	205	LEU	CA-C	-5.62	1.44	1.52
1	2R	224	PRO	N-CA	-5.62	1.40	1.47
1	35	24	VAL	CA-C	5.62	1.59	1.52
1	3T	161	PHE	CG-CD1	5.62	1.50	1.38
1	4g	165	VAL	C-N	5.62	1.41	1.33
1	4i	153	ILE	CA-C	5.62	1.59	1.52
1	5t	212	GLU	C-N	5.62	1.41	1.34
1	6J	54	THR	C-N	5.62	1.41	1.33
1	7Q	164	TYR	CA-CB	5.62	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	21	ASN	CA-CB	5.62	1.62	1.53
1	8G	162	ARG	CD-NE	5.62	1.54	1.46
1	9c	217	ALA	N-CA	5.62	1.53	1.46
1	9g	125	PRO	N-CA	5.62	1.51	1.47
1	9E	171	THR	N-CA	-5.62	1.39	1.46
1	9J	134	ILE	CA-CB	-5.62	1.47	1.54
1	aa	111	LEU	CA-CB	5.62	1.62	1.53
1	ad	84	HIS	ND1-CE1	5.62	1.38	1.32
1	15	202	LEU	C-N	5.62	1.41	1.34
1	b4	108	THR	CA-C	5.62	1.60	1.52
1	bU	87	HIS	CA-CB	5.62	1.62	1.53
1	cs	197	ASP	CA-CB	5.62	1.62	1.53
1	cI	124	ILE	CA-CB	-5.62	1.50	1.54
1	dQ	191	VAL	CA-CB	5.62	1.60	1.54
1	1p	70	LYS	C-O	-5.62	1.17	1.24
1	ep	155	GLN	CA-CB	5.62	1.61	1.53
1	f4	42	ALA	N-CA	-5.62	1.39	1.46
1	fj	177	ALA	CA-C	-5.62	1.45	1.52
1	fU	206	GLY	C-N	-5.62	1.28	1.34
1	c	117	TRP	CA-CB	5.62	1.63	1.53
1	s	39	MET	CA-C	5.62	1.60	1.52
1	y	90	PRO	N-CA	-5.62	1.40	1.47
1	E	173	ARG	NE-CZ	-5.62	1.26	1.33
1	1D	230	VAL	C-N	5.62	1.41	1.33
1	gt	15	ILE	CB-CG1	5.62	1.64	1.53
1	gQ	222	GLY	CA-C	-5.62	1.44	1.52
1	h9	172	LEU	N-CA	5.62	1.53	1.46
1	hz	132	ARG	CD-NE	5.62	1.54	1.46
1	1K	41	SER	CA-CB	5.62	1.62	1.53
1	hF	128	GLU	CA-C	5.62	1.59	1.52
1	hR	64	ALA	CA-C	5.62	1.60	1.52
1	i6	118	MET	CA-C	-5.62	1.45	1.52
1	i7	40	PHE	C-N	5.62	1.41	1.33
1	if	200	THR	C-N	5.62	1.41	1.33
1	is	40	PHE	C-N	5.62	1.41	1.33
1	iH	104	ILE	CA-C	5.62	1.59	1.52
1	iL	46	GLY	C-N	5.62	1.41	1.33
1	iT	127	GLY	C-O	-5.62	1.17	1.24
1	j0	30	LYS	N-CA	5.62	1.53	1.45
1	ja	190	LEU	N-CA	5.62	1.53	1.46
1	jb	129	ILE	CA-CB	-5.62	1.48	1.54
1	ji	12	HIS	N-CA	-5.62	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1V	149	SER	CA-CB	5.62	1.62	1.53
1	jo	19	THR	C-N	5.62	1.41	1.33
1	jT	107	THR	CA-C	-5.62	1.44	1.52
1	jW	217	ALA	CA-CB	5.62	1.62	1.53
1	k0	76	GLU	N-CA	5.62	1.53	1.46
1	kb	101	GLY	CA-C	-5.62	1.46	1.52
1	kZ	87	HIS	CB-CG	5.62	1.58	1.50
1	lo	160	PRO	CA-C	-5.62	1.46	1.52
1	lB	32	PHE	CA-C	5.62	1.60	1.52
1	2h	208	ALA	N-CA	-5.62	1.39	1.46
1	2s	161	PHE	N-CA	5.62	1.53	1.46
1	3s	58	THR	N-CA	5.62	1.53	1.46
1	4c	225	GLY	CA-C	-5.62	1.44	1.52
1	4d	87	HIS	CE1-NE2	5.62	1.38	1.32
1	4z	62	HIS	CE1-NE2	5.62	1.38	1.32
1	58	88	ALA	N-CA	5.62	1.53	1.45
1	5e	9	GLN	N-CA	-5.62	1.39	1.46
1	5f	153	ILE	C-O	5.62	1.30	1.24
1	5g	26	VAL	CA-CB	-5.62	1.47	1.54
1	5h	5	ASN	C-N	5.62	1.42	1.33
1	5k	129	ILE	CB-CG1	5.62	1.64	1.53
1	5k	173	ARG	N-CA	-5.62	1.38	1.46
1	5o	201	ILE	CB-CG1	5.62	1.64	1.53
1	5A	61	GLY	CA-C	-5.62	1.43	1.52
1	5A	173	ARG	CZ-NH2	-5.62	1.26	1.33
1	6t	143	ARG	CA-CB	5.62	1.62	1.53
1	71	161	PHE	N-CA	-5.62	1.39	1.46
1	74	195	ASN	CA-CB	5.62	1.61	1.53
1	7e	56	LEU	CA-CB	5.62	1.62	1.53
1	85	197	ASP	CA-CB	5.62	1.62	1.53
1	88	140	LYS	N-CA	-5.62	1.39	1.46
1	8d	21	ASN	C-N	5.62	1.42	1.33
1	8m	147	PRO	N-CA	-5.62	1.40	1.47
1	8H	80	TRP	N-CA	-5.62	1.39	1.46
1	8M	224	PRO	CA-C	5.62	1.59	1.52
1	8Q	173	ARG	CD-NE	5.62	1.54	1.46
1	95	92	GLU	N-CA	5.62	1.54	1.46
1	9t	87	HIS	CE1-NE2	5.62	1.38	1.32
1	9Z	154	ARG	NE-CZ	-5.62	1.26	1.33
1	ab	226	HIS	ND1-CE1	5.62	1.38	1.32
1	af	23	TRP	CE2-CZ2	-5.62	1.28	1.39
1	ag	151	LEU	CA-CB	5.62	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ar	91	ILE	N-CA	-5.62	1.38	1.46
1	aQ	226	HIS	ND1-CE1	5.62	1.38	1.32
1	b1	59	VAL	CA-CB	-5.62	1.47	1.53
1	ba	56	LEU	C-N	5.62	1.41	1.33
1	ba	173	ARG	CD-NE	5.62	1.54	1.46
1	bb	230	VAL	CA-C	-5.62	1.46	1.52
1	bE	82	ARG	CD-NE	5.62	1.54	1.46
1	bP	114	GLN	C-N	5.62	1.41	1.33
1	bY	171	THR	C-N	5.62	1.41	1.33
1	cn	87	HIS	CD2-NE2	5.62	1.44	1.37
1	cv	96	MET	CA-C	-5.62	1.45	1.52
1	cB	16	SER	CA-CB	5.62	1.61	1.52
1	cK	104	ILE	CA-C	-5.62	1.45	1.52
1	dh	74	ASN	N-CA	5.62	1.53	1.46
1	dn	18	ARG	C-N	5.62	1.41	1.33
1	dN	69	LEU	C-N	5.62	1.41	1.33
1	dO	62	HIS	N-CA	5.62	1.54	1.46
1	e5	132	ARG	CD-NE	5.62	1.54	1.46
1	ea	141	ILE	CA-C	5.62	1.59	1.52
1	ei	175	GLU	C-N	5.62	1.41	1.33
1	eC	206	GLY	CA-C	5.62	1.59	1.51
1	fk	91	ILE	C-O	5.62	1.30	1.24
1	1x	138	LEU	CA-CB	5.62	1.62	1.53
1	fP	12	HIS	CD2-NE2	5.62	1.44	1.37
1	fT	135	ILE	CA-C	5.62	1.59	1.52
1	r	137	GLY	N-CA	-5.62	1.38	1.45
1	M	123	PRO	CA-CB	5.62	1.60	1.53
1	4	176	GLN	CA-C	-5.62	1.45	1.52
1	S	225	GLY	C-N	5.62	1.41	1.33
1	gg	221	VAL	CA-CB	5.62	1.60	1.53
1	gK	214	MET	CA-C	-5.62	1.45	1.52
1	gO	79	GLU	CA-CB	5.62	1.62	1.53
1	hd	149	SER	N-CA	-5.62	1.38	1.46
1	1J	100	ARG	CD-NE	5.62	1.54	1.46
1	hx	21	ASN	CA-CB	5.62	1.62	1.53
1	hL	210	THR	N-CA	5.62	1.52	1.45
1	1N	104	ILE	N-CA	-5.62	1.39	1.46
1	ii	92	GLU	CA-C	5.62	1.59	1.52
1	iH	151	LEU	C-O	-5.62	1.16	1.24
1	iJ	128	GLU	N-CA	5.62	1.53	1.46
1	jG	136	LEU	N-CA	5.62	1.53	1.46
1	jR	55	MET	SD-CE	5.62	1.93	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k0	7	GLN	C-N	5.62	1.41	1.33
1	kj	103	ASP	N-CA	-5.62	1.39	1.46
1	kx	129	ILE	CA-CB	5.62	1.61	1.54
1	l0	111	LEU	CA-C	5.62	1.60	1.52
1	l6	180	GLU	CA-CB	5.62	1.62	1.53
1	lu	191	VAL	CA-CB	5.62	1.60	1.54
1	2k	153	ILE	C-O	-5.62	1.18	1.24
1	2B	114	GLN	C-O	-5.62	1.17	1.24
1	2R	164	TYR	CA-CB	5.62	1.62	1.53
1	2S	50	GLN	CA-CB	5.62	1.62	1.53
1	4v	189	LEU	C-N	5.62	1.41	1.33
1	57	142	VAL	CA-CB	5.62	1.60	1.54
1	58	23	TRP	CA-C	5.62	1.60	1.52
1	5e	156	GLY	C-N	-5.62	1.27	1.34
1	5Q	53	ASN	CA-CB	5.62	1.62	1.53
1	69	132	ARG	C-N	5.62	1.41	1.33
1	6J	64	ALA	CA-C	-5.62	1.45	1.52
1	7h	100	ARG	CD-NE	5.62	1.54	1.46
1	7k	82	ARG	N-CA	-5.62	1.39	1.46
1	7z	161	PHE	CG-CD1	5.62	1.50	1.38
1	7K	226	HIS	ND1-CE1	5.62	1.38	1.32
1	7N	3	VAL	N-CA	-5.62	1.39	1.46
1	7Y	151	LEU	CA-C	-5.62	1.44	1.52
1	89	221	VAL	CA-CB	5.62	1.60	1.54
1	8z	29	GLU	C-N	5.62	1.41	1.33
1	8K	105	ALA	C-N	5.62	1.41	1.33
1	8U	47	ALA	C-N	5.62	1.41	1.33
1	8U	131	LYS	C-O	-5.62	1.17	1.24
1	94	15	ILE	N-CA	-5.62	1.39	1.46
1	9a	165	VAL	CA-CB	-5.62	1.47	1.54
1	9k	85	PRO	N-CA	-5.62	1.40	1.47
1	9o	28	GLU	CA-CB	5.62	1.62	1.53
1	9S	123	PRO	C-N	5.62	1.38	1.32
1	Z	168	PHE	CA-CB	5.62	1.62	1.53
1	al	187	GLU	CA-CB	5.62	1.62	1.53
1	13	34	PRO	CA-C	-5.62	1.44	1.52
1	aN	180	GLU	CA-C	-5.62	1.45	1.52
1	b0	6	LEU	N-CA	-5.62	1.39	1.46
1	bb	164	TYR	C-N	5.62	1.40	1.33
1	bg	138	LEU	CA-C	-5.62	1.45	1.52
1	bD	210	THR	N-CA	5.62	1.53	1.45
1	bJ	198	CYS	C-N	5.62	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bV	26	VAL	C-N	5.62	1.40	1.34
1	ct	134	ILE	CA-C	-5.62	1.46	1.52
1	cW	202	LEU	CA-CB	5.62	1.62	1.53
1	d6	211	LEU	CA-CB	5.62	1.62	1.53
1	da	133	TRP	N-CA	5.62	1.53	1.46
1	1j	98	GLU	CA-C	5.62	1.60	1.53
1	dh	133	TRP	NE1-CE2	-5.62	1.31	1.37
1	dz	105	ALA	C-N	5.62	1.41	1.33
1	dU	30	LYS	C-N	5.62	1.40	1.33
1	el	7	GLN	C-O	-5.62	1.17	1.23
1	fc	41	SER	CA-C	5.62	1.60	1.52
1	1w	103	ASP	N-CA	-5.62	1.39	1.46
1	fm	224	PRO	N-CA	-5.62	1.40	1.47
1	fM	125	PRO	N-CD	-5.62	1.39	1.47
1	fZ	226	HIS	CG-ND1	5.62	1.44	1.38
1	g4	114	GLN	CA-C	5.62	1.59	1.52
1	f	114	GLN	C-N	5.62	1.41	1.33
1	t	173	ARG	C-N	5.62	1.41	1.33
1	E	136	LEU	N-CA	5.62	1.53	1.46
1	5	217	ALA	N-CA	-5.62	1.39	1.46
1	gq	90	PRO	C-N	5.62	1.41	1.33
1	gW	117	TRP	CA-CB	5.62	1.62	1.53
1	hQ	170	LYS	CA-CB	5.62	1.62	1.53
1	hU	230	VAL	CA-C	5.62	1.59	1.52
1	iD	84	HIS	CA-C	5.62	1.57	1.52
1	jG	180	GLU	C-N	5.62	1.41	1.33
1	kj	97	ARG	CA-CB	5.62	1.62	1.53
1	kj	114	GLN	CA-CB	5.62	1.62	1.53
1	kW	228	ALA	C-N	5.62	1.41	1.33
1	lk	93	PRO	N-CD	5.62	1.55	1.47
1	2f	87	HIS	ND1-CE1	5.62	1.38	1.32
1	2v	164	TYR	C-O	-5.62	1.17	1.24
1	3n	127	GLY	N-CA	5.62	1.52	1.45
1	47	221	VAL	C-O	5.62	1.30	1.24
1	4y	78	ALA	N-CA	5.62	1.53	1.46
1	4S	78	ALA	C-N	5.62	1.41	1.33
1	5B	77	ALA	CA-C	5.62	1.60	1.52
1	5B	84	HIS	ND1-CE1	5.62	1.38	1.32
1	61	84	HIS	ND1-CE1	5.62	1.38	1.32
1	65	117	TRP	NE1-CE2	5.62	1.43	1.37
1	6g	172	LEU	CA-C	-5.62	1.45	1.52
1	6y	116	GLY	C-N	5.62	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6z	113	GLU	C-N	5.62	1.41	1.33
1	6F	226	HIS	CE1-NE2	-5.62	1.26	1.32
1	73	10	MET	CA-C	5.62	1.60	1.52
1	7q	37	ILE	CA-CB	5.62	1.57	1.53
1	80	228	ALA	N-CA	5.62	1.52	1.46
1	8U	136	LEU	CA-C	5.62	1.60	1.52
1	a3	195	ASN	CA-C	-5.62	1.47	1.53
1	ay	155	GLN	C-N	5.62	1.41	1.33
1	b1	145	TYR	CA-CB	5.62	1.62	1.53
1	ci	144	MET	CA-CB	5.62	1.62	1.53
1	co	224	PRO	N-CA	-5.62	1.40	1.47
1	cy	197	ASP	CA-C	5.62	1.60	1.52
1	cR	131	LYS	CA-C	5.62	1.60	1.52
1	dh	76	GLU	CA-C	5.62	1.60	1.52
1	dn	140	LYS	CA-C	-5.62	1.45	1.52
1	dX	179	GLN	CA-CB	5.62	1.62	1.53
1	e5	212	GLU	N-CA	-5.62	1.39	1.46
1	ej	162	ARG	NE-CZ	5.62	1.39	1.33
1	eo	79	GLU	C-N	5.62	1.41	1.33
1	1r	24	VAL	CA-C	5.62	1.59	1.52
1	eK	113	GLU	CA-C	-5.62	1.45	1.52
1	fD	123	PRO	C-N	5.62	1.39	1.33
1	fG	138	LEU	CA-C	5.62	1.59	1.52
1	fQ	194	ALA	C-N	5.62	1.42	1.33
1	O	137	GLY	C-N	5.62	1.41	1.33
1	gb	23	TRP	N-CA	-5.62	1.39	1.46
1	gq	91	ILE	CA-CB	-5.62	1.48	1.54
1	gr	69	LEU	C-N	-5.62	1.26	1.34
1	gt	221	VAL	CA-CB	5.62	1.61	1.54
1	gu	63	GLN	N-CA	-5.62	1.38	1.46
1	gB	86	VAL	C-O	-5.62	1.18	1.24
1	1E	141	ILE	C-N	5.62	1.41	1.33
1	h4	129	ILE	CA-C	5.62	1.59	1.52
1	hb	4	GLN	CA-C	5.62	1.60	1.52
1	hi	173	ARG	CA-CB	5.62	1.62	1.53
1	hk	100	ARG	N-CA	-5.62	1.39	1.45
1	1K	181	VAL	CA-C	5.62	1.59	1.52
1	hM	186	THR	CA-C	-5.62	1.45	1.52
1	hP	84	HIS	ND1-CE1	5.62	1.38	1.32
1	hQ	168	PHE	C-N	5.62	1.41	1.33
1	hU	112	GLN	CA-C	5.62	1.60	1.52
1	i3	101	GLY	CA-C	-5.62	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ia	36	VAL	CA-C	5.62	1.59	1.52
1	iz	101	GLY	N-CA	-5.62	1.38	1.45
1	iG	93	PRO	CA-CB	5.62	1.61	1.53
1	j0	21	ASN	CA-CB	5.62	1.62	1.53
1	je	196	PRO	CA-CB	-5.62	1.45	1.53
1	jv	170	LYS	CA-C	5.62	1.60	1.52
1	kj	229	ARG	CA-CB	5.62	1.62	1.53
1	ku	69	LEU	C-O	-5.62	1.17	1.24
1	kW	215	MET	CA-CB	5.62	1.62	1.53
1	l2	178	SER	CA-C	5.62	1.60	1.52
1	2G	133	TRP	N-CA	5.62	1.53	1.46
1	2G	204	ALA	CA-C	5.62	1.60	1.52
1	33	175	GLU	N-CA	-5.62	1.38	1.46
1	48	140	LYS	C-N	5.62	1.41	1.33
1	4d	36	VAL	CA-C	-5.62	1.45	1.52
1	53	137	GLY	N-CA	5.62	1.52	1.45
1	54	190	LEU	CA-C	5.62	1.60	1.52
1	5p	124	ILE	N-CA	5.62	1.50	1.46
1	5H	50	GLN	CA-CB	5.62	1.62	1.53
1	5W	12	HIS	CG-CD2	5.62	1.42	1.35
1	6h	87	HIS	N-CA	-5.62	1.39	1.46
1	6M	76	GLU	CA-C	-5.62	1.45	1.52
1	6T	156	GLY	N-CA	5.62	1.52	1.44
1	70	39	MET	C-N	5.62	1.41	1.33
1	7g	49	PRO	C-N	5.62	1.41	1.33
1	7m	145	TYR	CA-C	-5.62	1.45	1.53
1	7o	173	ARG	CZ-NH1	5.62	1.40	1.32
1	86	71	GLU	CA-CB	5.62	1.62	1.53
1	8b	80	TRP	N-CA	5.62	1.53	1.46
1	8z	139	ASN	CA-C	5.62	1.60	1.52
1	8z	227	LYS	CA-CB	5.62	1.61	1.53
1	8T	46	GLY	C-N	-5.62	1.26	1.33
1	8U	188	THR	CA-C	-5.62	1.46	1.52
1	9a	23	TRP	CA-C	-5.62	1.45	1.52
1	9a	79	GLU	N-CA	5.62	1.53	1.46
1	9k	73	ILE	CA-C	5.62	1.59	1.52
1	9r	187	GLU	C-N	5.62	1.40	1.33
1	9Z	160	PRO	CA-CB	5.62	1.61	1.53
1	Z	92	GLU	N-CA	-5.62	1.40	1.46
1	a3	149	SER	CA-C	5.62	1.59	1.52
1	af	46	GLY	C-N	5.62	1.41	1.33
1	ai	82	ARG	C-N	5.62	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aJ	121	ASN	N-CA	-5.62	1.41	1.46
1	aO	210	THR	CA-C	5.62	1.60	1.52
1	aQ	120	HIS	CD2-NE2	5.62	1.44	1.37
1	b2	208	ALA	C-N	5.62	1.40	1.33
1	b3	164	TYR	C-N	5.62	1.40	1.33
1	bh	157	PRO	CA-C	5.62	1.60	1.52
1	bk	185	MET	CA-C	5.62	1.60	1.52
1	by	36	VAL	N-CA	5.62	1.53	1.46
1	bP	161	PHE	CA-CB	5.62	1.62	1.53
1	cj	131	LYS	N-CA	-5.62	1.39	1.46
1	cn	105	ALA	C-O	5.62	1.31	1.24
1	1h	170	LYS	CA-C	-5.62	1.45	1.52
1	de	112	GLN	CA-C	5.62	1.60	1.52
1	dh	62	HIS	CE1-NE2	5.62	1.38	1.32
1	dn	132	ARG	CD-NE	5.62	1.54	1.46
1	dp	73	ILE	CA-CB	5.62	1.61	1.54
1	dt	96	MET	CA-C	5.62	1.60	1.52
1	dZ	183	ASN	C-N	5.62	1.41	1.33
1	e8	134	ILE	CA-C	-5.62	1.46	1.52
1	es	26	VAL	N-CA	5.62	1.53	1.46
1	eE	140	LYS	C-N	5.62	1.41	1.33
1	eK	199	LYS	CA-CB	5.62	1.62	1.53
1	eO	36	VAL	N-CA	5.62	1.53	1.46
1	eS	87	HIS	CA-C	5.62	1.59	1.52
1	f0	54	THR	C-O	-5.62	1.17	1.24
1	fi	2	ILE	C-N	5.62	1.40	1.33
1	fp	161	PHE	CA-CB	5.62	1.62	1.53
1	fx	180	GLU	C-N	5.62	1.41	1.33
1	fC	178	SER	CA-CB	5.62	1.63	1.53
1	M	66	MET	N-CA	-5.62	1.39	1.46
1	gl	164	TYR	C-O	-5.62	1.17	1.24
1	gs	167	ARG	CA-CB	5.62	1.62	1.53
1	gQ	86	VAL	CA-CB	-5.62	1.47	1.54
1	gQ	97	ARG	CD-NE	5.62	1.54	1.46
1	hd	124	ILE	CA-CB	5.62	1.60	1.54
1	hv	38	PRO	C-O	5.62	1.30	1.24
1	hW	19	THR	CA-C	-5.62	1.45	1.52
1	iE	40	PHE	CA-CB	5.62	1.62	1.53
1	jK	167	ARG	NE-CZ	5.62	1.39	1.33
1	k9	229	ARG	CA-CB	5.62	1.62	1.53
1	ko	7	GLN	CA-C	5.62	1.60	1.52
1	23	87	HIS	CD2-NE2	5.62	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l8	195	ASN	CA-C	-5.62	1.47	1.53
1	ln	220	GLY	CA-C	-5.62	1.44	1.51
1	lJ	120	HIS	CA-C	-5.62	1.45	1.52
1	2W	12	HIS	CA-CB	5.62	1.62	1.53
1	3y	19	THR	N-CA	5.62	1.53	1.46
1	3X	43	LEU	N-CA	5.62	1.53	1.46
1	5a	167	ARG	CA-C	5.62	1.59	1.52
1	5Q	224	PRO	CA-CB	5.62	1.61	1.53
1	5V	141	ILE	C-N	-5.62	1.26	1.33
1	66	152	ASP	N-CA	-5.62	1.39	1.46
1	6j	89	GLY	CA-C	5.62	1.59	1.51
1	6y	93	PRO	C-O	-5.62	1.16	1.24
1	7t	196	PRO	CA-CB	5.62	1.61	1.53
1	7S	201	ILE	C-N	5.62	1.41	1.33
1	7W	85	PRO	CA-C	5.62	1.60	1.52
1	8v	20	LEU	CA-CB	5.62	1.62	1.53
1	bu	54	THR	CA-C	5.62	1.59	1.52
1	c3	11	VAL	CA-C	-5.62	1.46	1.52
1	cP	8	GLY	N-CA	5.62	1.53	1.45
1	cZ	31	ALA	CA-C	5.62	1.58	1.53
1	dF	117	TRP	NE1-CE2	5.62	1.43	1.37
1	dL	159	GLU	N-CA	-5.62	1.41	1.45
1	1n	222	GLY	CA-C	5.62	1.60	1.52
1	dU	134	ILE	CA-C	5.62	1.60	1.52
1	dV	92	GLU	CA-C	5.62	1.58	1.53
1	d	143	ARG	CA-C	5.62	1.60	1.52
1	e	80	TRP	CA-C	5.62	1.59	1.52
1	O	39	MET	C-N	5.62	1.41	1.33
1	gD	99	PRO	CA-CB	5.62	1.61	1.53
1	gH	173	ARG	CA-C	-5.62	1.45	1.52
1	gO	160	PRO	CA-CB	-5.62	1.45	1.53
1	h4	230	VAL	CA-CB	5.62	1.60	1.53
1	hD	65	ALA	C-O	5.62	1.30	1.24
1	hT	128	GLU	C-N	5.62	1.41	1.33
1	hV	104	ILE	CB-CG1	5.62	1.64	1.53
1	i5	23	TRP	C-N	-5.62	1.26	1.33
1	in	180	GLU	CA-C	5.62	1.60	1.52
1	iw	205	LEU	CA-C	5.62	1.60	1.52
1	1Q	212	GLU	CA-C	5.62	1.60	1.52
1	iy	175	GLU	CA-CB	5.62	1.62	1.53
1	1R	195	ASN	N-CA	5.62	1.53	1.45
1	jk	122	PRO	C-N	-5.62	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jM	31	ALA	CA-C	-5.62	1.45	1.52
1	jQ	149	SER	CA-CB	5.62	1.62	1.53
1	k0	144	MET	CA-C	-5.62	1.45	1.52
1	k5	133	TRP	CZ2-CH2	5.62	1.48	1.37
1	k5	139	ASN	N-CA	-5.62	1.39	1.46
1	ka	141	ILE	C-O	-5.62	1.17	1.24
1	kf	12	HIS	CB-CG	-5.62	1.42	1.50
1	kz	24	VAL	C-O	-5.62	1.17	1.24
1	kN	198	CYS	CA-C	-5.62	1.45	1.52
1	l8	61	GLY	CA-C	-5.62	1.41	1.52
1	lg	34	PRO	N-CD	-5.62	1.39	1.47
1	lt	87	HIS	N-CA	5.62	1.53	1.46
1	lI	61	GLY	C-O	5.62	1.28	1.23
1	lL	23	TRP	NE1-CE2	5.62	1.43	1.37
1	2v	87	HIS	N-CA	5.62	1.52	1.46
1	3f	137	GLY	C-N	5.62	1.41	1.33
1	3p	87	HIS	CD2-NE2	5.62	1.44	1.37
1	3z	225	GLY	CA-C	5.62	1.57	1.51
1	3K	164	TYR	C-N	5.62	1.41	1.33
1	3W	148	THR	CA-CB	-5.62	1.46	1.54
1	49	140	LYS	N-CA	5.62	1.53	1.46
1	4h	26	VAL	CA-CB	-5.62	1.47	1.54
1	4r	113	GLU	N-CA	-5.62	1.39	1.46
1	4Q	147	PRO	C-N	5.62	1.41	1.33
1	5g	175	GLU	N-CA	-5.62	1.38	1.45
1	5j	84	HIS	CG-ND1	5.62	1.44	1.38
1	5n	51	ASP	C-O	-5.62	1.17	1.24
1	5C	48	THR	CA-C	-5.62	1.47	1.53
1	6Y	213	GLU	CA-C	5.62	1.60	1.52
1	72	84	HIS	CA-C	5.62	1.59	1.52
1	74	177	ALA	CA-C	5.62	1.59	1.52
1	7p	125	PRO	C-N	5.62	1.40	1.34
1	7s	100	ARG	N-CA	5.62	1.52	1.45
1	7S	132	ARG	CA-C	5.62	1.60	1.52
1	84	97	ARG	N-CA	-5.62	1.39	1.46
1	8k	64	ALA	N-CA	-5.62	1.39	1.46
1	8x	87	HIS	ND1-CE1	5.62	1.38	1.32
1	8z	74	ASN	N-CA	-5.62	1.39	1.46
1	8B	18	ARG	CD-NE	5.62	1.54	1.46
1	8D	134	ILE	CA-C	5.62	1.59	1.52
1	90	59	VAL	CA-CB	-5.62	1.47	1.54
1	92	191	VAL	C-N	5.62	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9u	114	GLN	CA-CB	5.62	1.62	1.53
1	9J	163	ASP	CA-C	5.62	1.60	1.52
1	9L	26	VAL	CA-CB	-5.62	1.47	1.54
1	9M	62	HIS	CA-C	-5.62	1.45	1.53
1	12	129	ILE	C-N	5.62	1.41	1.33
1	aA	72	THR	C-N	-5.62	1.27	1.33
1	aH	93	PRO	CA-C	5.62	1.59	1.52
1	aU	73	ILE	C-N	5.62	1.41	1.33
1	b2	147	PRO	N-CA	-5.62	1.40	1.47
1	b5	64	ALA	N-CA	-5.62	1.39	1.46
1	16	87	HIS	CA-C	-5.62	1.46	1.52
1	bl	43	LEU	CA-C	5.62	1.60	1.52
1	c7	191	VAL	C-N	5.62	1.41	1.33
1	cx	124	ILE	CA-CB	-5.62	1.48	1.53
1	1f	24	VAL	N-CA	5.62	1.53	1.46
1	cI	20	LEU	N-CA	-5.62	1.39	1.46
1	cJ	133	TRP	CA-C	5.62	1.60	1.52
1	d3	87	HIS	CG-CD2	5.62	1.42	1.35
1	dj	208	ALA	C-O	-5.62	1.16	1.23
1	dq	37	ILE	CA-C	5.62	1.57	1.52
1	dv	37	ILE	CA-C	-5.62	1.47	1.52
1	dE	150	ILE	CA-CB	-5.62	1.47	1.54
1	dJ	149	SER	CA-C	5.62	1.60	1.52
1	dY	142	VAL	CA-C	-5.62	1.45	1.52
1	e3	65	ALA	C-O	-5.62	1.17	1.24
1	1p	114	GLN	C-N	5.62	1.40	1.33
1	en	187	GLU	CA-C	5.62	1.59	1.53
1	eP	13	GLN	CA-C	5.62	1.59	1.52
1	eU	123	PRO	CA-C	5.62	1.59	1.52
1	f5	98	GLU	CA-C	5.62	1.59	1.52
1	fh	164	TYR	CA-C	-5.62	1.45	1.52
1	fk	122	PRO	CA-CB	-5.62	1.43	1.53
1	fU	133	TRP	C-N	5.62	1.40	1.33
1	a	107	THR	C-N	5.62	1.42	1.33
1	ga	103	ASP	CA-CB	5.61	1.62	1.53
1	1D	167	ARG	C-N	5.61	1.40	1.33
1	gZ	46	GLY	C-N	5.61	1.41	1.33
1	h6	40	PHE	CA-C	-5.61	1.45	1.52
1	hc	76	GLU	CA-CB	5.61	1.62	1.53
1	hs	200	THR	CA-CB	-5.61	1.44	1.53
1	ht	133	TRP	NE1-CE2	-5.61	1.31	1.37
1	i3	184	TRP	CA-C	5.61	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i8	166	ASP	C-O	5.61	1.30	1.24
1	ie	39	MET	CA-CB	5.61	1.62	1.53
1	ie	222	GLY	C-N	5.61	1.41	1.33
1	iw	120	HIS	CB-CG	5.61	1.58	1.50
1	iT	122	PRO	C-N	5.61	1.40	1.33
1	iX	169	TYR	N-CA	-5.61	1.39	1.46
1	jk	28	GLU	CA-CB	5.61	1.62	1.53
1	jY	200	THR	N-CA	5.61	1.53	1.46
1	km	167	ARG	CA-C	5.61	1.60	1.52
1	l0	27	VAL	N-CA	5.61	1.53	1.46
1	lj	54	THR	CA-C	-5.61	1.45	1.52
1	lG	195	ASN	CA-CB	5.61	1.61	1.53
1	2t	199	LYS	N-CA	5.61	1.53	1.46
1	2X	173	ARG	N-CA	-5.61	1.39	1.46
1	2Y	139	ASN	CA-CB	5.61	1.62	1.53
1	2Y	223	GLY	CA-C	-5.61	1.43	1.51
1	3p	32	PHE	C-N	-5.61	1.26	1.33
1	3L	66	MET	CA-CB	5.61	1.62	1.53
1	4t	198	CYS	CA-CB	5.61	1.62	1.53
1	53	41	SER	CA-C	5.61	1.59	1.52
1	5c	204	ALA	N-CA	5.61	1.53	1.46
1	5A	12	HIS	ND1-CE1	5.61	1.38	1.32
1	5F	162	ARG	CA-CB	5.61	1.62	1.53
1	65	190	LEU	N-CA	-5.61	1.39	1.46
1	6l	82	ARG	CA-C	5.61	1.60	1.53
1	6s	119	THR	N-CA	-5.61	1.38	1.46
1	6z	23	TRP	C-N	5.61	1.40	1.33
1	6T	111	LEU	CA-CB	5.61	1.63	1.53
1	8j	175	GLU	C-N	5.61	1.40	1.33
1	8F	83	LEU	CA-CB	5.61	1.62	1.53
1	9b	175	GLU	CA-CB	5.61	1.62	1.53
1	9k	124	ILE	CA-CB	-5.61	1.47	1.54
1	9v	133	TRP	CA-CB	5.61	1.62	1.53
1	9B	211	LEU	CB-CG	5.61	1.64	1.53
1	9O	222	GLY	CA-C	5.61	1.59	1.51
1	9W	158	LYS	CA-CB	5.61	1.62	1.53
1	11	131	LYS	CA-C	5.61	1.60	1.52
1	ao	120	HIS	ND1-CE1	5.61	1.38	1.32
1	aC	135	ILE	CA-CB	-5.61	1.47	1.54
1	aU	97	ARG	CD-NE	5.61	1.54	1.46
1	aW	85	PRO	C-N	5.61	1.41	1.33
1	b2	168	PHE	N-CA	-5.61	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b3	213	GLU	CA-CB	5.61	1.62	1.53
1	bI	66	MET	CA-CB	5.61	1.62	1.53
1	c5	74	ASN	C-N	-5.61	1.26	1.33
1	c8	15	ILE	C-N	5.61	1.41	1.33
1	cm	146	SER	C-N	5.61	1.40	1.33
1	cs	55	MET	CA-CB	5.61	1.62	1.53
1	cB	120	HIS	CG-ND1	5.61	1.44	1.38
1	cE	117	TRP	NE1-CE2	-5.61	1.31	1.37
1	1i	80	TRP	N-CA	5.61	1.53	1.46
1	dh	198	CYS	CA-CB	5.61	1.62	1.53
1	ds	184	TRP	CA-C	5.61	1.60	1.52
1	dA	215	MET	N-CA	-5.61	1.38	1.46
1	e8	8	GLY	CA-C	-5.61	1.43	1.52
1	eu	6	LEU	CA-CB	5.61	1.63	1.53
1	eJ	213	GLU	CA-C	5.61	1.60	1.52
1	f8	52	LEU	C-N	5.61	1.41	1.33
1	fh	88	ALA	CA-C	-5.61	1.45	1.52
1	fp	143	ARG	CD-NE	5.61	1.54	1.46
1	g2	121	ASN	CA-CB	5.61	1.62	1.53
1	g7	138	LEU	CA-CB	5.61	1.62	1.53
1	r	214	MET	C-N	5.61	1.41	1.34
1	t	142	VAL	CA-CB	-5.61	1.47	1.54
1	L	99	PRO	CA-C	-5.61	1.45	1.52
1	5	181	VAL	CA-CB	-5.61	1.47	1.54
1	h5	88	ALA	CA-C	-5.61	1.45	1.52
1	hn	184	TRP	CA-C	5.61	1.60	1.52
1	iC	179	GLN	CA-CB	5.61	1.62	1.53
1	iE	167	ARG	CD-NE	5.61	1.54	1.46
1	iE	184	TRP	NE1-CE2	-5.61	1.31	1.37
1	iU	228	ALA	C-N	5.61	1.40	1.33
1	jh	104	ILE	N-CA	5.61	1.53	1.46
1	1W	227	LYS	CA-C	-5.61	1.44	1.52
1	ku	135	ILE	CA-C	5.61	1.60	1.52
1	kB	141	ILE	CA-C	-5.61	1.46	1.52
1	kG	12	HIS	CA-C	-5.61	1.45	1.52
1	kI	205	LEU	CA-C	5.61	1.60	1.52
1	kY	35	GLU	C-N	5.61	1.40	1.33
1	lj	121	ASN	CA-C	-5.61	1.48	1.52
1	lj	135	ILE	CA-CB	-5.61	1.48	1.54
1	2v	52	LEU	CA-CB	5.61	1.62	1.53
1	2x	18	ARG	C-N	-5.61	1.26	1.33
1	2G	64	ALA	CA-C	5.61	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2L	1	PRO	C-N	5.61	1.42	1.33
1	3l	229	ARG	CD-NE	5.61	1.54	1.46
1	3t	52	LEU	N-CA	-5.61	1.39	1.46
1	3x	133	TRP	CA-CB	5.61	1.62	1.53
1	45	134	ILE	C-N	5.61	1.41	1.33
1	48	146	SER	CA-C	5.61	1.59	1.52
1	4U	18	ARG	CA-C	-5.61	1.45	1.52
1	5o	15	ILE	C-N	5.61	1.44	1.33
1	60	116	GLY	CA-C	-5.61	1.44	1.51
1	6T	110	THR	C-N	5.61	1.41	1.33
1	7j	177	ALA	C-N	5.61	1.40	1.33
1	7p	25	LYS	C-N	5.61	1.41	1.33
1	7y	86	VAL	N-CA	5.61	1.53	1.46
1	8E	100	ARG	CD-NE	5.61	1.54	1.46
1	8N	206	GLY	N-CA	5.61	1.52	1.44
1	8P	99	PRO	CA-C	5.61	1.59	1.52
1	9j	203	LYS	CA-C	-5.61	1.45	1.52
1	9o	188	THR	C-N	5.61	1.41	1.33
1	9z	162	ARG	CZ-NH1	-5.61	1.24	1.32
1	Y	203	LYS	N-CA	-5.61	1.39	1.46
1	9R	87	HIS	CB-CG	5.61	1.58	1.50
1	aG	39	MET	C-N	5.61	1.41	1.33
1	b7	230	VAL	CA-C	5.61	1.59	1.52
1	bh	1	PRO	N-CD	5.61	1.55	1.47
1	bM	16	SER	CA-CB	5.61	1.61	1.53
1	c2	141	ILE	N-CA	-5.61	1.39	1.46
1	cV	84	HIS	CA-CB	-5.61	1.46	1.53
1	dd	23	TRP	CA-CB	5.61	1.62	1.53
1	e1	76	GLU	CA-C	5.61	1.59	1.52
1	ee	160	PRO	CA-CB	-5.61	1.45	1.53
1	ey	49	PRO	CA-C	5.61	1.61	1.52
1	eU	98	GLU	CA-CB	5.61	1.63	1.53
1	1u	228	ALA	N-CA	-5.61	1.39	1.46
1	fo	139	ASN	CA-C	-5.61	1.45	1.52
1	K	95	GLN	CA-CB	5.61	1.63	1.53
1	5	68	MET	CA-C	-5.61	1.45	1.52
1	g8	83	LEU	CA-C	5.61	1.60	1.52
1	gv	185	MET	CA-C	5.61	1.59	1.52
1	gH	207	PRO	N-CA	-5.61	1.41	1.47
1	gK	1	PRO	N-CD	5.61	1.55	1.47
1	gK	87	HIS	CE1-NE2	-5.61	1.26	1.32
1	gX	215	MET	CA-CB	5.61	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h4	35	GLU	N-CA	-5.61	1.39	1.46
1	h6	79	GLU	C-N	-5.61	1.26	1.33
1	h8	106	GLY	CA-C	-5.61	1.43	1.51
1	hp	66	MET	CA-CB	5.61	1.62	1.53
1	hq	173	ARG	CD-NE	5.61	1.54	1.46
1	i2	217	ALA	CA-CB	5.61	1.62	1.53
1	i6	63	GLN	CA-C	-5.61	1.45	1.52
1	iM	120	HIS	CA-CB	5.61	1.61	1.53
1	iT	193	ASN	CA-C	5.61	1.59	1.52
1	jm	78	ALA	CA-C	5.61	1.59	1.52
1	jp	214	MET	N-CA	-5.61	1.39	1.46
1	jJ	62	HIS	CE1-NE2	5.61	1.38	1.32
1	1Z	23	TRP	CA-CB	5.61	1.62	1.53
1	24	55	MET	CA-C	-5.61	1.45	1.52
1	kR	7	GLN	CA-C	5.61	1.59	1.52
1	kV	71	GLU	C-O	-5.61	1.17	1.24
1	l5	20	LEU	CA-CB	5.61	1.62	1.53
1	lc	163	ASP	CA-CB	5.61	1.62	1.53
1	lq	53	ASN	CA-CB	5.61	1.62	1.53
1	30	189	LEU	N-CA	5.61	1.53	1.46
1	35	87	HIS	CA-C	5.61	1.60	1.52
1	3i	92	GLU	CA-CB	5.61	1.60	1.53
1	3p	87	HIS	N-CA	-5.61	1.39	1.46
1	3q	67	GLN	CA-C	5.61	1.60	1.52
1	3J	91	ILE	N-CA	5.61	1.53	1.46
1	3K	80	TRP	C-N	5.61	1.41	1.33
1	3O	35	GLU	C-N	5.61	1.40	1.34
1	49	77	ALA	C-O	-5.61	1.17	1.24
1	56	165	VAL	N-CA	-5.61	1.39	1.46
1	5g	18	ARG	CA-C	-5.61	1.45	1.52
1	5O	139	ASN	CA-C	5.61	1.60	1.52
1	5P	96	MET	C-N	5.61	1.40	1.33
1	6c	64	ALA	N-CA	-5.61	1.39	1.46
1	6i	158	LYS	CA-C	5.61	1.60	1.52
1	6r	28	GLU	CA-CB	5.61	1.62	1.53
1	6F	170	LYS	CA-CB	5.61	1.62	1.53
1	73	37	ILE	CB-CG1	5.61	1.64	1.53
1	78	28	GLU	CA-CB	5.61	1.62	1.53
1	7z	55	MET	CA-CB	5.61	1.62	1.53
1	7P	138	LEU	CA-CB	5.61	1.62	1.53
1	82	159	GLU	CA-C	5.61	1.59	1.52
1	8i	205	LEU	CB-CG	5.61	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8D	226	HIS	CE1-NE2	5.61	1.38	1.32
1	8T	39	MET	N-CA	-5.61	1.39	1.46
1	8U	133	TRP	NE1-CE2	-5.61	1.31	1.37
1	8Y	125	PRO	CA-CB	5.61	1.61	1.53
1	9g	126	VAL	CA-CB	-5.61	1.47	1.54
1	9l	41	SER	CA-C	5.61	1.60	1.52
1	9u	200	THR	CA-C	5.61	1.59	1.52
1	a7	79	GLU	C-N	5.61	1.41	1.33
1	aa	72	THR	N-CA	5.61	1.53	1.46
1	aa	73	ILE	CA-CB	-5.61	1.47	1.54
1	ab	220	GLY	C-N	5.61	1.39	1.33
1	ah	111	LEU	CA-CB	5.61	1.62	1.53
1	ap	36	VAL	CA-C	5.61	1.59	1.52
1	13	194	ALA	N-CA	-5.61	1.39	1.45
1	aL	56	LEU	CA-C	5.61	1.60	1.52
1	b9	120	HIS	CB-CG	5.61	1.58	1.50
1	18	90	PRO	C-N	5.61	1.41	1.33
1	bE	83	LEU	CA-CB	5.61	1.62	1.53
1	1d	153	ILE	CB-CG1	5.61	1.64	1.53
1	d9	72	THR	C-N	5.61	1.40	1.33
1	da	36	VAL	C-O	-5.61	1.17	1.24
1	dw	175	GLU	CA-CB	5.61	1.62	1.53
1	dD	165	VAL	CA-C	-5.61	1.45	1.52
1	dF	54	THR	C-N	5.61	1.42	1.33
1	1n	167	ARG	CA-CB	5.61	1.62	1.53
1	e3	70	LYS	N-CA	5.61	1.53	1.46
1	eF	134	ILE	CA-C	5.61	1.60	1.52
1	eK	12	HIS	CD2-NE2	5.61	1.44	1.37
1	eQ	99	PRO	N-CA	-5.61	1.40	1.47
1	f4	114	GLN	CA-C	-5.61	1.45	1.52
1	fE	137	GLY	CA-C	-5.61	1.45	1.52
1	fH	48	THR	CA-C	5.61	1.59	1.52
1	fU	143	ARG	CA-C	5.61	1.59	1.52
1	g0	62	HIS	CE1-NE2	5.61	1.38	1.32
1	1B	151	LEU	C-N	5.61	1.41	1.34
1	e	40	PHE	N-CA	-5.61	1.39	1.46
1	h	105	ALA	CA-C	-5.61	1.44	1.52
1	2	127	GLY	CA-C	5.61	1.58	1.52
1	A	52	LEU	CA-CB	5.61	1.62	1.53
1	N	226	HIS	ND1-CE1	5.61	1.38	1.32
1	O	120	HIS	ND1-CE1	5.61	1.38	1.32
1	gf	92	GLU	CA-C	5.61	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gf	111	LEU	C-O	-5.61	1.17	1.24
1	gn	113	GLU	C-N	5.61	1.41	1.33
1	gr	207	PRO	N-CD	-5.61	1.39	1.47
1	gT	117	TRP	CA-C	5.61	1.60	1.52
1	iA	70	LYS	CA-CB	5.61	1.62	1.53
1	iE	142	VAL	CA-C	5.61	1.59	1.52
1	iP	12	HIS	CA-CB	5.61	1.62	1.53
1	j6	18	ARG	C-O	-5.61	1.17	1.24
1	jF	162	ARG	CZ-NH1	-5.61	1.24	1.32
1	31	15	ILE	CA-C	5.61	1.59	1.52
1	34	192	GLN	C-N	5.61	1.42	1.33
1	3W	211	LEU	C-O	-5.61	1.17	1.24
1	5y	5	ASN	N-CA	-5.61	1.39	1.46
1	68	137	GLY	N-CA	-5.61	1.38	1.45
1	6o	131	LYS	CA-CB	5.61	1.63	1.53
1	6s	189	LEU	CA-CB	5.61	1.62	1.53
1	6w	197	ASP	C-N	5.61	1.41	1.33
1	6A	96	MET	CA-CB	5.61	1.62	1.53
1	6B	196	PRO	C-N	5.61	1.41	1.33
1	7U	213	GLU	CA-C	5.61	1.60	1.52
1	84	149	SER	N-CA	-5.61	1.39	1.46
1	8n	11	VAL	CA-C	5.61	1.59	1.52
1	8w	167	ARG	CD-NE	5.61	1.54	1.46
1	9e	100	ARG	CD-NE	5.61	1.54	1.46
1	az	125	PRO	CA-C	5.61	1.60	1.52
1	aF	12	HIS	CG-ND1	-5.61	1.32	1.38
1	15	148	THR	CA-C	-5.61	1.45	1.53
1	bx	74	ASN	CA-CB	5.61	1.62	1.53
1	cc	81	ASP	N-CA	-5.61	1.39	1.46
1	cf	30	LYS	N-CA	-5.61	1.40	1.46
1	cj	168	PHE	N-CA	-5.61	1.39	1.46
1	ck	17	PRO	C-N	5.61	1.41	1.33
1	ck	216	THR	CB-OG1	-5.61	1.34	1.43
1	cp	117	TRP	NE1-CE2	-5.61	1.31	1.37
1	cP	180	GLU	C-N	5.61	1.40	1.33
1	ds	175	GLU	N-CA	5.61	1.52	1.46
1	e1	69	LEU	CA-CB	5.61	1.62	1.53
1	ec	215	MET	CA-CB	5.61	1.63	1.53
1	eF	139	ASN	CA-CB	5.61	1.62	1.53
1	fW	100	ARG	CD-NE	5.61	1.54	1.46
1	g7	110	THR	CB-OG1	-5.61	1.34	1.43
1	C	116	GLY	CA-C	5.61	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3	204	ALA	N-CA	5.61	1.53	1.46
1	H	162	ARG	N-CA	5.61	1.53	1.46
1	gq	184	TRP	CA-C	5.61	1.60	1.52
1	gJ	159	GLU	CA-C	5.61	1.59	1.52
1	gP	17	PRO	N-CA	5.61	1.54	1.47
1	1J	203	LYS	CA-CB	5.61	1.62	1.53
1	ht	32	PHE	CA-CB	5.61	1.60	1.53
1	hC	12	HIS	ND1-CE1	5.61	1.38	1.32
1	hL	6	LEU	C-N	5.61	1.41	1.33
1	hO	125	PRO	CA-CB	5.61	1.60	1.53
1	iS	52	LEU	C-O	-5.61	1.17	1.24
1	jb	192	GLN	CA-C	-5.61	1.45	1.52
1	ji	184	TRP	CA-C	-5.61	1.45	1.52
1	jq	192	GLN	C-O	-5.61	1.17	1.24
1	jx	226	HIS	C-O	-5.61	1.16	1.24
1	1Y	192	GLN	C-O	-5.61	1.17	1.24
1	jS	8	GLY	N-CA	5.61	1.51	1.45
1	k4	205	LEU	CA-CB	5.61	1.62	1.53
1	km	204	ALA	CA-C	-5.61	1.45	1.52
1	kn	40	PHE	CA-CB	5.61	1.62	1.53
1	kW	219	GLN	CA-C	-5.61	1.45	1.53
1	l2	32	PHE	CA-CB	5.61	1.62	1.53
1	l3	60	GLY	CA-C	-5.61	1.44	1.51
1	lk	196	PRO	N-CA	-5.61	1.40	1.47
1	lB	61	GLY	N-CA	-5.61	1.38	1.45
1	2G	39	MET	N-CA	-5.61	1.39	1.46
1	2K	78	ALA	C-N	5.61	1.41	1.33
1	2Y	22	ALA	CA-C	5.61	1.60	1.52
1	3B	21	ASN	N-CA	-5.61	1.39	1.46
1	48	154	ARG	CA-C	-5.61	1.45	1.52
1	4q	126	VAL	C-N	5.61	1.40	1.33
1	4r	118	MET	CA-C	-5.61	1.45	1.52
1	4r	148	THR	CA-CB	-5.61	1.44	1.53
1	4L	135	ILE	N-CA	5.61	1.53	1.46
1	5f	178	SER	C-N	-5.61	1.26	1.33
1	5G	93	PRO	N-CD	-5.61	1.39	1.47
1	5P	150	ILE	CA-C	5.61	1.60	1.52
1	5R	57	ASN	CA-C	5.61	1.60	1.52
1	61	129	ILE	CA-C	-5.61	1.46	1.52
1	6g	29	GLU	CA-CB	5.61	1.62	1.53
1	6F	20	LEU	CA-CB	5.61	1.62	1.53
1	6Q	190	LEU	C-N	5.61	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6R	105	ALA	N-CA	-5.61	1.38	1.46
1	6Y	189	LEU	CA-CB	5.61	1.62	1.53
1	70	219	GLN	C-N	5.61	1.40	1.33
1	76	214	MET	CA-CB	5.61	1.62	1.53
1	7d	69	LEU	CA-C	5.61	1.60	1.52
1	7l	179	GLN	CA-C	-5.61	1.45	1.52
1	7F	32	PHE	C-N	5.61	1.39	1.33
1	7F	88	ALA	CA-C	5.61	1.59	1.52
1	8g	35	GLU	CA-CB	5.61	1.62	1.53
1	8h	154	ARG	NE-CZ	5.61	1.39	1.33
1	8r	18	ARG	CD-NE	5.61	1.54	1.46
1	8s	62	HIS	CE1-NE2	5.61	1.38	1.32
1	8W	191	VAL	CA-CB	5.61	1.61	1.54
1	95	138	LEU	CA-C	-5.61	1.45	1.52
1	9g	37	ILE	CA-CB	-5.61	1.51	1.54
1	9i	77	ALA	N-CA	-5.61	1.39	1.46
1	9l	141	ILE	C-N	5.61	1.40	1.33
1	9x	166	ASP	C-N	5.61	1.41	1.33
1	9z	5	ASN	CA-CB	5.61	1.62	1.53
1	9F	145	TYR	CA-CB	5.61	1.61	1.53
1	a0	174	ALA	C-N	5.61	1.40	1.33
1	a9	37	ILE	N-CA	5.61	1.53	1.46
1	aa	180	GLU	CA-CB	5.61	1.62	1.53
1	bE	87	HIS	CA-C	5.61	1.60	1.52
1	bG	26	VAL	CA-CB	-5.61	1.48	1.54
1	bV	80	TRP	NE1-CE2	5.61	1.43	1.37
1	1c	97	ARG	N-CA	5.61	1.53	1.46
1	c8	185	MET	C-O	-5.61	1.17	1.24
1	cn	49	PRO	C-N	5.61	1.41	1.33
1	co	110	THR	N-CA	5.61	1.53	1.45
1	cI	11	VAL	C-O	-5.61	1.18	1.24
1	cI	85	PRO	CA-C	5.61	1.58	1.52
1	d2	197	ASP	C-N	5.61	1.41	1.33
1	dS	131	LYS	CA-CB	5.61	1.62	1.53
1	dX	168	PHE	CA-CB	5.61	1.62	1.53
1	dX	191	VAL	CA-C	5.61	1.58	1.52
1	eW	149	SER	C-N	5.61	1.39	1.34
1	f3	23	TRP	CA-CB	5.61	1.62	1.53
1	fb	115	ILE	CA-CB	-5.61	1.47	1.54
1	fc	80	TRP	NE1-CE2	-5.61	1.31	1.37
1	g3	138	LEU	CA-CB	5.61	1.62	1.53
1	p	25	LYS	C-N	5.61	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	t	16	SER	C-N	-5.61	1.26	1.33
1	A	82	ARG	CD-NE	5.61	1.54	1.46
1	F	184	TRP	CA-C	5.61	1.60	1.52
1	L	141	ILE	CA-CB	-5.61	1.47	1.54
1	1C	229	ARG	CD-NE	5.61	1.54	1.46
1	gy	51	ASP	N-CA	-5.61	1.39	1.46
1	gT	79	GLU	C-N	5.61	1.41	1.33
1	h6	198	CYS	CA-C	5.61	1.58	1.52
1	hl	208	ALA	CA-CB	5.61	1.62	1.53
1	ht	209	ALA	CA-C	5.61	1.60	1.52
1	hz	62	HIS	CE1-NE2	5.61	1.38	1.32
1	hD	198	CYS	CA-CB	5.61	1.62	1.53
1	i8	1	PRO	N-CA	5.61	1.55	1.47
1	ic	35	GLU	CA-CB	5.61	1.63	1.53
1	ig	163	ASP	CA-CB	5.61	1.62	1.53
1	iu	34	PRO	C-N	5.61	1.42	1.33
1	iP	103	ASP	C-N	-5.61	1.26	1.33
1	iQ	164	TYR	C-N	5.61	1.41	1.33
1	iX	81	ASP	N-CA	5.61	1.53	1.46
1	j1	54	THR	N-CA	-5.61	1.39	1.46
1	ja	140	LYS	N-CA	-5.61	1.39	1.46
1	jl	140	LYS	CA-C	5.61	1.60	1.52
1	jI	149	SER	N-CA	-5.61	1.39	1.46
1	jR	227	LYS	N-CA	-5.61	1.39	1.46
1	ki	66	MET	C-N	5.61	1.41	1.33
1	21	224	PRO	N-CA	-5.61	1.40	1.47
1	kC	118	MET	C-O	-5.61	1.17	1.24
1	26	87	HIS	CB-CG	-5.61	1.42	1.50
1	lA	111	LEU	CA-CB	5.61	1.62	1.53
1	lK	125	PRO	CA-CB	5.61	1.58	1.53
1	2w	38	PRO	CA-C	5.61	1.60	1.52
1	2x	52	LEU	C-N	5.61	1.41	1.34
1	39	171	THR	CA-C	-5.61	1.45	1.52
1	47	100	ARG	CA-C	-5.61	1.45	1.52
1	4J	156	GLY	N-CA	5.61	1.52	1.44
1	4O	40	PHE	CA-C	-5.61	1.45	1.52
1	4V	120	HIS	CD2-NE2	5.61	1.44	1.37
1	4W	146	SER	CA-CB	5.61	1.61	1.53
1	56	15	ILE	CA-CB	5.61	1.60	1.54
1	5d	152	ASP	C-N	5.61	1.40	1.34
1	5l	39	MET	CA-C	5.61	1.60	1.52
1	5A	136	LEU	CA-CB	5.61	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5S	55	MET	CA-CB	5.61	1.62	1.53
1	6z	139	ASN	C-N	5.61	1.41	1.34
1	6E	226	HIS	CA-CB	5.61	1.60	1.53
1	72	229	ARG	CD-NE	5.61	1.54	1.46
1	7f	100	ARG	CD-NE	5.61	1.54	1.46
1	7D	75	GLU	CA-C	5.61	1.59	1.52
1	7E	6	LEU	N-CA	5.61	1.52	1.46
1	7O	114	GLN	C-N	5.61	1.40	1.34
1	8b	53	ASN	CA-CB	5.61	1.62	1.53
1	8c	139	ASN	C-N	5.61	1.41	1.33
1	8k	182	LYS	CA-C	5.61	1.60	1.52
1	95	85	PRO	CA-CB	5.61	1.61	1.53
1	99	124	ILE	CA-C	5.61	1.58	1.52
1	9f	64	ALA	CA-CB	5.61	1.62	1.53
1	9F	183	ASN	N-CA	-5.61	1.39	1.46
1	9V	80	TRP	NE1-CE2	-5.61	1.31	1.37
1	a2	28	GLU	CA-CB	5.61	1.62	1.53
1	a7	83	LEU	C-N	5.61	1.38	1.33
1	ak	161	PHE	CA-CB	5.61	1.62	1.53
1	av	67	GLN	CA-CB	5.61	1.62	1.53
1	aC	120	HIS	CE1-NE2	-5.61	1.26	1.32
1	aO	170	LYS	CA-CB	5.61	1.62	1.53
1	b3	117	TRP	NE1-CE2	-5.61	1.31	1.37
1	b7	82	ARG	C-N	5.61	1.41	1.33
1	bc	107	THR	CA-CB	5.61	1.63	1.53
1	bi	129	ILE	C-O	5.61	1.30	1.24
1	18	162	ARG	CD-NE	5.61	1.54	1.46
1	bH	118	MET	CA-C	5.61	1.60	1.52
1	bK	165	VAL	CA-C	5.61	1.59	1.52
1	bV	14	ALA	C-N	5.61	1.41	1.33
1	cc	75	GLU	N-CA	-5.61	1.39	1.46
1	1e	58	THR	N-CA	5.61	1.53	1.46
1	1e	87	HIS	ND1-CE1	5.61	1.38	1.32
1	cv	215	MET	C-N	5.61	1.42	1.33
1	cO	213	GLU	C-N	5.61	1.41	1.34
1	cV	127	GLY	N-CA	5.61	1.53	1.45
1	cY	37	ILE	CA-CB	-5.61	1.51	1.54
1	dg	175	GLU	CA-C	5.61	1.60	1.52
1	do	120	HIS	C-N	5.61	1.39	1.33
1	dp	170	LYS	N-CA	5.61	1.53	1.46
1	dH	26	VAL	CA-C	-5.61	1.45	1.52
1	dN	147	PRO	N-CA	5.61	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dO	154	ARG	CD-NE	5.61	1.54	1.46
1	dS	167	ARG	CZ-NH1	-5.61	1.25	1.32
1	dY	64	ALA	N-CA	5.61	1.53	1.46
1	e9	21	ASN	N-CA	-5.61	1.39	1.46
1	eb	189	LEU	CA-C	-5.61	1.45	1.52
1	ef	183	ASN	CA-CB	5.61	1.62	1.53
1	eK	23	TRP	CA-C	5.61	1.60	1.52
1	eM	95	GLN	N-CA	5.61	1.53	1.46
1	f6	74	ASN	CA-CB	5.61	1.62	1.53
1	fj	119	THR	CA-CB	5.61	1.61	1.53
1	fz	229	ARG	N-CA	5.61	1.52	1.46
1	1y	203	LYS	CA-C	-5.61	1.44	1.52
1	fU	27	VAL	N-CA	-5.61	1.39	1.46
1	1A	66	MET	CA-CB	5.61	1.62	1.53
1	g1	12	HIS	CB-CG	5.61	1.57	1.50
1	g2	164	TYR	CA-CB	5.61	1.62	1.53
1	l	32	PHE	CA-C	-5.61	1.44	1.52
1	l	101	GLY	CA-C	-5.61	1.45	1.52
1	t	117	TRP	NE1-CE2	-5.61	1.31	1.37
1	gc	66	MET	C-N	5.60	1.41	1.33
1	go	36	VAL	C-N	5.60	1.42	1.33
1	gB	15	ILE	CA-CB	-5.60	1.48	1.54
1	gP	154	ARG	CA-CB	5.60	1.64	1.54
1	hQ	35	GLU	N-CA	-5.60	1.39	1.46
1	il	183	ASN	N-CA	5.60	1.53	1.46
1	ip	226	HIS	ND1-CE1	5.60	1.38	1.32
1	iV	161	PHE	C-N	5.60	1.41	1.33
1	j7	16	SER	C-N	5.60	1.41	1.34
1	jJ	46	GLY	C-O	-5.60	1.20	1.24
1	jR	182	LYS	CA-C	5.60	1.59	1.52
1	k5	122	PRO	C-N	-5.60	1.26	1.33
1	21	96	MET	C-N	5.60	1.40	1.33
1	21	104	ILE	N-CA	-5.60	1.39	1.46
1	27	153	ILE	N-CA	5.60	1.53	1.46
1	lu	23	TRP	CA-CB	5.60	1.62	1.53
1	lv	87	HIS	CB-CG	5.60	1.57	1.50
1	lG	103	ASP	CA-C	-5.60	1.45	1.52
1	2g	165	VAL	C-N	5.60	1.41	1.33
1	2k	80	TRP	C-N	5.60	1.41	1.33
1	3K	185	MET	CG-SD	5.60	1.94	1.80
1	40	29	GLU	CA-CB	5.60	1.62	1.53
1	4q	84	HIS	C-O	-5.60	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4v	151	LEU	C-N	5.60	1.41	1.33
1	4x	58	THR	C-N	5.60	1.40	1.33
1	4L	51	ASP	C-N	5.60	1.41	1.33
1	5D	167	ARG	CZ-NH2	-5.60	1.26	1.33
1	5S	221	VAL	C-N	5.60	1.40	1.32
1	82	2	ILE	C-N	5.60	1.41	1.33
1	8f	184	TRP	NE1-CE2	-5.60	1.31	1.37
1	8o	112	GLN	CA-C	5.60	1.60	1.52
1	8K	148	THR	CA-C	-5.60	1.45	1.52
1	9q	79	GLU	C-N	5.60	1.41	1.33
1	9D	218	CYS	CA-C	5.60	1.60	1.53
1	9I	204	ALA	CA-C	5.60	1.59	1.52
1	an	6	LEU	C-N	5.60	1.40	1.33
1	av	15	ILE	CA-C	5.60	1.59	1.52
1	aH	59	VAL	C-N	5.60	1.40	1.33
1	bb	171	THR	CA-C	5.60	1.59	1.52
1	cc	184	TRP	CA-C	5.60	1.60	1.52
1	co	34	PRO	N-CD	-5.60	1.40	1.47
1	db	66	MET	N-CA	5.60	1.53	1.46
1	dM	12	HIS	CB-CG	-5.60	1.42	1.50
1	e6	137	GLY	CA-C	-5.60	1.45	1.52
1	e9	62	HIS	CA-C	-5.60	1.45	1.53
1	l	130	TYR	CA-CB	5.60	1.62	1.53
1	q	186	THR	C-N	5.60	1.41	1.34
1	gg	48	THR	N-CA	5.60	1.53	1.45
1	gj	84	HIS	CE1-NE2	5.60	1.38	1.32
1	go	49	PRO	C-N	5.60	1.41	1.33
1	h1	73	ILE	N-CA	-5.60	1.40	1.46
1	h9	108	THR	C-N	5.60	1.42	1.33
1	hl	16	SER	CA-C	5.60	1.58	1.52
1	i2	201	ILE	CA-CB	-5.60	1.47	1.54
1	ia	62	HIS	CA-C	-5.60	1.45	1.53
1	in	222	GLY	C-N	5.60	1.41	1.33
1	iP	136	LEU	CA-CB	5.60	1.62	1.53
1	j6	223	GLY	CA-C	-5.60	1.43	1.51
1	jy	36	VAL	CA-C	5.60	1.59	1.52
1	k5	175	GLU	CA-C	-5.60	1.45	1.52
1	k8	99	PRO	CA-C	5.60	1.59	1.52
1	kn	177	ALA	CA-C	-5.60	1.45	1.52
1	kv	68	MET	N-CA	5.60	1.53	1.46
1	kK	28	GLU	CA-CB	5.60	1.62	1.53
1	kW	162	ARG	CD-NE	5.60	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l0	37	ILE	CA-CB	5.60	1.56	1.54
1	l9	155	GLN	N-CA	-5.60	1.39	1.46
1	l9	162	ARG	NE-CZ	5.60	1.39	1.33
1	27	229	ARG	NE-CZ	5.60	1.39	1.33
1	lx	12	HIS	CE1-NE2	5.60	1.38	1.32
1	lF	145	TYR	CA-CB	5.60	1.62	1.53
1	lK	100	ARG	CZ-NH2	-5.60	1.26	1.33
1	2k	145	TYR	N-CA	5.60	1.53	1.46
1	2u	107	THR	CB-OG1	-5.60	1.34	1.43
1	2K	82	ARG	NE-CZ	-5.60	1.26	1.33
1	34	120	HIS	N-CA	-5.60	1.39	1.46
1	3x	229	ARG	N-CA	5.60	1.54	1.46
1	3F	202	LEU	N-CA	5.60	1.53	1.46
1	3R	21	ASN	CA-CB	5.60	1.62	1.53
1	4n	82	ARG	C-O	5.60	1.30	1.24
1	4G	227	LYS	CA-C	-5.60	1.46	1.52
1	4Z	23	TRP	CA-CB	5.60	1.62	1.53
1	51	55	MET	CA-CB	5.60	1.62	1.53
1	53	218	CYS	CA-CB	5.60	1.61	1.53
1	5x	207	PRO	CA-C	-5.60	1.48	1.53
1	5T	130	TYR	CA-CB	5.60	1.62	1.53
1	5T	187	GLU	CA-C	5.60	1.60	1.52
1	5V	199	LYS	CA-C	5.60	1.60	1.52
1	68	3	VAL	C-O	-5.60	1.18	1.24
1	6f	223	GLY	CA-C	5.60	1.59	1.51
1	6D	42	ALA	CA-C	5.60	1.59	1.52
1	7d	70	LYS	N-CA	5.60	1.53	1.46
1	7i	227	LYS	C-N	5.60	1.41	1.33
1	7B	61	GLY	C-O	-5.60	1.17	1.23
1	85	129	ILE	CA-CB	-5.60	1.47	1.54
1	8D	173	ARG	CD-NE	5.60	1.54	1.46
1	8L	164	TYR	N-CA	-5.60	1.39	1.46
1	8Q	169	TYR	C-O	-5.60	1.17	1.24
1	8S	6	LEU	CA-C	5.60	1.60	1.52
1	98	47	ALA	CA-CB	5.60	1.61	1.53
1	9m	186	THR	CA-C	5.60	1.60	1.52
1	12	154	ARG	CD-NE	5.60	1.54	1.46
1	aA	56	LEU	C-O	-5.60	1.17	1.24
1	aG	80	TRP	CA-CB	5.60	1.62	1.53
1	bd	162	ARG	C-N	5.60	1.41	1.33
1	bi	224	PRO	C-N	5.60	1.41	1.33
1	bj	212	GLU	CA-CB	5.60	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bs	143	ARG	CA-C	5.60	1.59	1.52
1	bA	148	THR	CB-OG1	-5.60	1.34	1.43
1	bG	43	LEU	CA-C	-5.60	1.45	1.52
1	bG	164	TYR	CA-CB	5.60	1.62	1.53
1	bY	54	THR	CA-C	5.60	1.60	1.52
1	cb	80	TRP	NE1-CE2	-5.60	1.31	1.37
1	cm	72	THR	CA-C	-5.60	1.45	1.52
1	cm	125	PRO	CA-CB	-5.60	1.45	1.53
1	co	152	ASP	N-CA	-5.60	1.39	1.46
1	cs	165	VAL	N-CA	-5.60	1.39	1.46
1	cM	135	ILE	C-N	5.60	1.41	1.33
1	cN	113	GLU	CA-CB	5.60	1.62	1.53
1	cU	140	LYS	CA-CB	5.60	1.62	1.53
1	cZ	10	MET	CA-CB	5.60	1.62	1.53
1	1i	184	TRP	CA-CB	5.60	1.62	1.53
1	dq	100	ARG	CA-CB	5.60	1.62	1.53
1	dx	100	ARG	CA-C	5.60	1.61	1.53
1	dD	200	THR	C-N	5.60	1.41	1.33
1	e4	139	ASN	N-CA	-5.60	1.39	1.46
1	e4	211	LEU	N-CA	-5.60	1.39	1.46
1	1s	218	CYS	C-N	5.60	1.41	1.33
1	eT	196	PRO	CA-C	-5.60	1.44	1.52
1	fj	97	ARG	CZ-NH1	-5.60	1.25	1.32
1	fw	115	ILE	C-N	5.60	1.41	1.33
1	fx	23	TRP	C-N	5.60	1.40	1.33
1	fO	24	VAL	N-CA	5.60	1.53	1.46
1	fU	186	THR	N-CA	-5.60	1.39	1.46
1	g0	182	LYS	CA-CB	5.60	1.62	1.53
1	g3	133	TRP	C-N	5.60	1.41	1.33
1	g5	84	HIS	CA-CB	5.60	1.65	1.53
1	i	99	PRO	CA-CB	-5.60	1.46	1.53
1	y	164	TYR	CA-C	5.60	1.60	1.52
1	C	87	HIS	CB-CG	-5.60	1.42	1.50
1	D	89	GLY	C-N	-5.60	1.26	1.33
1	E	11	VAL	C-N	5.60	1.41	1.33
1	F	134	ILE	C-N	5.60	1.40	1.33
1	V	183	ASN	N-CA	-5.60	1.39	1.46
1	5	11	VAL	CA-CB	5.60	1.60	1.54
1	9	83	LEU	CA-C	-5.60	1.44	1.52
1	gw	55	MET	CA-CB	5.60	1.62	1.53
1	gC	20	LEU	CA-CB	5.60	1.62	1.53
1	gV	84	HIS	CE1-NE2	5.60	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hc	209	ALA	CA-C	5.60	1.60	1.53
1	j3	229	ARG	C-N	5.60	1.40	1.33
1	ji	144	MET	CA-CB	5.60	1.62	1.53
1	jJ	1	PRO	N-CD	5.60	1.55	1.47
1	k0	9	GLN	C-O	-5.60	1.17	1.24
1	k5	126	VAL	CA-C	5.60	1.59	1.52
1	21	65	ALA	CA-CB	-5.60	1.44	1.53
1	23	92	GLU	N-CA	5.60	1.52	1.46
1	kU	69	LEU	CA-C	-5.60	1.45	1.52
1	lu	141	ILE	C-N	-5.60	1.26	1.33
1	lE	17	PRO	N-CD	-5.60	1.40	1.47
1	3K	54	THR	CA-C	5.60	1.60	1.52
1	3R	226	HIS	CD2-NE2	5.60	1.44	1.37
1	6p	71	GLU	C-N	5.60	1.41	1.33
1	6Q	195	ASN	C-N	5.60	1.42	1.33
1	7g	226	HIS	CB-CG	5.60	1.57	1.50
1	7z	154	ARG	N-CA	5.60	1.53	1.46
1	7E	181	VAL	CA-C	5.60	1.59	1.52
1	7I	30	LYS	CA-CB	5.60	1.61	1.53
1	7T	172	LEU	CA-CB	5.60	1.62	1.53
1	81	8	GLY	CA-C	-5.60	1.44	1.51
1	85	93	PRO	N-CD	5.60	1.55	1.47
1	8B	45	GLU	C-N	5.60	1.41	1.33
1	8M	116	GLY	CA-C	5.60	1.58	1.52
1	9X	189	LEU	N-CA	-5.60	1.39	1.46
1	ad	189	LEU	C-N	5.60	1.41	1.33
1	af	112	GLN	CA-CB	5.60	1.62	1.53
1	am	67	GLN	CA-C	-5.60	1.45	1.52
1	aN	33	SER	C-N	5.60	1.40	1.34
1	bx	50	GLN	C-N	5.60	1.41	1.33
1	bz	140	LYS	C-N	5.60	1.40	1.33
1	c5	120	HIS	CA-CB	5.60	1.61	1.53
1	cc	140	LYS	CA-CB	5.60	1.62	1.53
1	cw	19	THR	N-CA	5.60	1.53	1.46
1	d7	67	GLN	C-O	-5.60	1.17	1.24
1	1k	10	MET	CA-C	5.60	1.59	1.52
1	dx	39	MET	CA-C	-5.60	1.45	1.52
1	1l	180	GLU	C-N	5.60	1.40	1.33
1	eP	46	GLY	C-N	5.60	1.41	1.33
1	g1	173	ARG	CA-C	5.60	1.60	1.52
1	ga	24	VAL	C-O	5.60	1.30	1.24
1	gp	124	ILE	CA-CB	-5.60	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gr	143	ARG	N-CA	-5.60	1.39	1.46
1	h9	128	GLU	CA-CB	5.60	1.62	1.53
1	1I	178	SER	CA-CB	5.60	1.62	1.53
1	1I	213	GLU	CA-C	5.60	1.60	1.52
1	ho	48	THR	CA-C	5.60	1.59	1.52
1	1J	120	HIS	CB-CG	5.60	1.57	1.50
1	hu	227	LYS	N-CA	-5.60	1.39	1.46
1	hK	30	LYS	CA-CB	5.60	1.62	1.53
1	hL	117	TRP	CZ2-CH2	5.60	1.47	1.37
1	hS	125	PRO	CA-CB	-5.60	1.48	1.53
1	hT	87	HIS	CA-CB	5.60	1.60	1.53
1	hZ	113	GLU	CA-C	-5.60	1.45	1.52
1	ic	117	TRP	CA-CB	5.60	1.62	1.53
1	ie	84	HIS	ND1-CE1	5.60	1.38	1.32
1	ig	69	LEU	CA-CB	5.60	1.62	1.53
1	ig	123	PRO	C-N	5.60	1.38	1.33
1	iI	11	VAL	CA-C	-5.60	1.45	1.52
1	1S	188	THR	CA-CB	-5.60	1.44	1.53
1	j1	207	PRO	N-CD	5.60	1.55	1.47
1	j7	69	LEU	CB-CG	5.60	1.64	1.53
1	je	217	ALA	C-N	5.60	1.41	1.33
1	jh	224	PRO	CA-CB	5.60	1.61	1.53
1	jA	52	LEU	CA-C	5.60	1.59	1.52
1	jH	7	GLN	CA-CB	-5.60	1.46	1.53
1	ke	80	TRP	CA-C	5.60	1.60	1.52
1	kq	223	GLY	N-CA	5.60	1.52	1.44
1	kM	107	THR	CA-CB	5.60	1.62	1.53
1	kT	80	TRP	CA-CB	5.60	1.62	1.53
1	25	59	VAL	CA-C	-5.60	1.45	1.52
1	l1	3	VAL	CA-CB	-5.60	1.47	1.54
1	lg	140	LYS	CA-CB	5.60	1.62	1.53
1	lk	153	ILE	CA-CB	-5.60	1.47	1.54
1	lO	175	GLU	C-N	5.60	1.41	1.33
1	2e	128	GLU	CA-CB	5.60	1.62	1.53
1	2q	105	ALA	C-N	5.60	1.41	1.33
1	2H	178	SER	C-N	5.60	1.41	1.33
1	2P	169	TYR	CA-C	5.60	1.60	1.52
1	3k	175	GLU	CA-CB	5.60	1.62	1.53
1	3o	114	GLN	C-N	5.60	1.40	1.34
1	3s	185	MET	CA-C	5.60	1.60	1.52
1	3D	203	LYS	N-CA	-5.60	1.39	1.46
1	3I	110	THR	CA-C	5.60	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3K	151	LEU	C-O	-5.60	1.16	1.24
1	4p	87	HIS	N-CA	5.60	1.52	1.45
1	5r	92	GLU	CA-C	5.60	1.58	1.52
1	5z	8	GLY	C-N	5.60	1.41	1.33
1	5F	220	GLY	CA-C	-5.60	1.46	1.52
1	63	169	TYR	C-N	5.60	1.41	1.33
1	6a	21	ASN	N-CA	5.60	1.53	1.46
1	6b	120	HIS	ND1-CE1	5.60	1.38	1.32
1	6d	82	ARG	CD-NE	5.60	1.54	1.46
1	6P	98	GLU	CA-C	5.60	1.59	1.53
1	6T	188	THR	CA-C	-5.60	1.45	1.52
1	6V	205	LEU	CA-CB	5.60	1.62	1.53
1	78	44	SER	CA-CB	5.60	1.62	1.53
1	7I	215	MET	CA-C	5.60	1.60	1.52
1	7W	102	SER	N-CA	5.60	1.53	1.46
1	8E	10	MET	CA-CB	5.60	1.62	1.53
1	98	120	HIS	ND1-CE1	5.60	1.38	1.32
1	9E	145	TYR	CZ-OH	5.60	1.49	1.38
1	9K	27	VAL	C-N	5.60	1.40	1.33
1	a0	136	LEU	CA-C	5.60	1.60	1.52
1	a4	183	ASN	C-N	5.60	1.41	1.33
1	av	184	TRP	NE1-CE2	-5.60	1.31	1.37
1	bq	29	GLU	C-O	-5.60	1.17	1.24
1	bD	142	VAL	CA-C	-5.60	1.46	1.52
1	bT	214	MET	N-CA	5.60	1.53	1.46
1	1d	114	GLN	C-N	5.60	1.41	1.33
1	ck	204	ALA	CA-C	5.60	1.59	1.52
1	cl	87	HIS	CD2-NE2	5.60	1.44	1.37
1	cm	218	CYS	N-CA	-5.60	1.38	1.46
1	cT	42	ALA	N-CA	5.60	1.53	1.46
1	cY	218	CYS	C-N	5.60	1.41	1.33
1	d5	106	GLY	N-CA	5.60	1.53	1.45
1	d6	52	LEU	N-CA	5.60	1.53	1.46
1	de	21	ASN	C-O	5.60	1.30	1.24
1	dA	94	GLY	CA-C	-5.60	1.43	1.52
1	dC	64	ALA	N-CA	-5.60	1.39	1.46
1	dG	82	ARG	NE-CZ	-5.60	1.26	1.33
1	dL	103	ASP	CA-C	5.60	1.60	1.52
1	e4	64	ALA	N-CA	5.60	1.53	1.46
1	ea	198	CYS	CA-C	-5.60	1.45	1.52
1	1p	101	GLY	CA-C	-5.60	1.45	1.52
1	eC	218	CYS	C-O	-5.60	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eV	91	ILE	CA-CB	5.60	1.60	1.54
1	eX	134	ILE	CA-CB	-5.60	1.47	1.54
1	eY	86	VAL	CA-CB	5.60	1.60	1.54
1	f3	63	GLN	CA-CB	5.60	1.62	1.53
1	f7	184	TRP	CA-CB	5.60	1.62	1.53
1	1x	119	THR	CA-CB	-5.60	1.44	1.53
1	fR	39	MET	C-N	5.60	1.41	1.33
1	n	214	MET	C-N	5.60	1.41	1.33
1	gf	201	ILE	N-CA	-5.60	1.40	1.46
1	gk	3	VAL	C-N	5.60	1.41	1.33
1	gn	198	CYS	C-N	5.60	1.41	1.33
1	gq	129	ILE	C-O	-5.60	1.17	1.24
1	gt	221	VAL	N-CA	5.60	1.52	1.46
1	gu	202	LEU	N-CA	5.60	1.53	1.46
1	gD	9	GLN	CA-CB	5.60	1.63	1.53
1	gG	12	HIS	CG-ND1	5.60	1.44	1.38
1	gJ	134	ILE	CA-C	5.60	1.59	1.52
1	gZ	224	PRO	C-O	-5.60	1.16	1.24
1	1J	216	THR	CA-C	5.60	1.60	1.52
1	hy	157	PRO	C-O	-5.60	1.17	1.24
1	1O	38	PRO	CA-CB	5.60	1.61	1.53
1	io	200	THR	CA-CB	5.60	1.62	1.53
1	it	128	GLU	C-N	5.60	1.41	1.34
1	iD	45	GLU	C-N	5.60	1.41	1.33
1	iF	149	SER	C-N	5.60	1.40	1.33
1	1S	181	VAL	CA-CB	-5.60	1.47	1.54
1	iV	74	ASN	CA-C	5.60	1.60	1.52
1	j9	120	HIS	ND1-CE1	5.60	1.38	1.32
1	jj	90	PRO	N-CA	5.60	1.53	1.47
1	jr	173	ARG	CD-NE	5.60	1.54	1.46
1	1W	208	ALA	CA-C	5.60	1.59	1.52
1	1Z	27	VAL	C-N	5.60	1.41	1.33
1	k0	158	LYS	CA-CB	5.60	1.61	1.53
1	k7	184	TRP	CA-C	5.60	1.59	1.52
1	kl	215	MET	CA-CB	5.60	1.62	1.53
1	kn	132	ARG	NE-CZ	5.60	1.39	1.33
1	ko	171	THR	N-CA	5.60	1.53	1.46
1	ky	196	PRO	C-N	5.60	1.41	1.33
1	kD	62	HIS	CE1-NE2	5.60	1.38	1.32
1	kL	130	TYR	CA-C	5.60	1.59	1.52
1	24	157	PRO	N-CD	-5.60	1.40	1.47
1	ll	130	TYR	CA-C	5.60	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	29	4	GLN	C-O	-5.60	1.15	1.23
1	2v	37	ILE	CA-C	5.60	1.57	1.52
1	2w	84	HIS	C-N	5.60	1.40	1.33
1	2R	87	HIS	CA-CB	5.60	1.61	1.53
1	3w	147	PRO	CA-C	-5.60	1.44	1.52
1	3x	51	ASP	CA-CB	5.60	1.62	1.53
1	3z	154	ARG	C-N	5.60	1.41	1.33
1	3G	72	THR	C-N	5.60	1.41	1.34
1	4s	3	VAL	N-CA	-5.60	1.39	1.46
1	4C	97	ARG	CA-C	5.60	1.60	1.52
1	4L	81	ASP	C-O	-5.60	1.17	1.24
1	4W	100	ARG	C-N	5.60	1.41	1.33
1	52	201	ILE	CA-C	5.60	1.60	1.52
1	5Y	103	ASP	C-N	5.60	1.40	1.33
1	6f	173	ARG	NE-CZ	-5.60	1.26	1.33
1	6C	136	LEU	N-CA	-5.60	1.39	1.46
1	6F	101	GLY	CA-C	5.60	1.58	1.52
1	6X	78	ALA	CA-CB	5.60	1.62	1.53
1	78	52	LEU	N-CA	5.60	1.53	1.46
1	79	1	PRO	C-N	5.60	1.42	1.33
1	7b	219	GLN	CA-C	-5.60	1.45	1.52
1	7e	156	GLY	C-O	-5.60	1.16	1.24
1	7m	99	PRO	C-N	5.60	1.41	1.33
1	7E	226	HIS	CA-CB	5.60	1.62	1.53
1	7J	100	ARG	CZ-NH1	-5.60	1.25	1.32
1	86	62	HIS	CG-ND1	-5.60	1.32	1.38
1	89	108	THR	N-CA	5.60	1.52	1.46
1	8a	75	GLU	CA-C	-5.60	1.45	1.52
1	8c	158	LYS	N-CA	-5.60	1.38	1.45
1	8G	84	HIS	CE1-NE2	-5.60	1.26	1.32
1	8L	126	VAL	N-CA	-5.60	1.39	1.46
1	92	115	ILE	C-O	-5.60	1.17	1.24
1	95	149	SER	C-N	5.60	1.39	1.34
1	9i	211	LEU	CA-CB	5.60	1.62	1.53
1	9N	139	ASN	CA-CB	5.60	1.62	1.53
1	aW	177	ALA	N-CA	5.60	1.53	1.46
1	b6	83	LEU	C-N	5.60	1.39	1.33
1	bh	44	SER	CA-C	5.60	1.60	1.52
1	17	143	ARG	C-N	5.60	1.41	1.33
1	br	102	SER	C-N	5.60	1.42	1.33
1	bG	176	GLN	C-N	5.60	1.41	1.33
1	bO	138	LEU	N-CA	-5.60	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bT	11	VAL	N-CA	-5.60	1.39	1.46
1	ca	42	ALA	N-CA	5.60	1.53	1.46
1	dc	67	GLN	CA-CB	5.60	1.62	1.53
1	dg	143	ARG	N-CA	5.60	1.53	1.46
1	dj	166	ASP	CA-C	5.60	1.59	1.52
1	dr	104	ILE	CA-C	5.60	1.59	1.52
1	dM	178	SER	C-O	-5.60	1.17	1.23
1	dO	70	LYS	C-N	5.60	1.41	1.33
1	dR	26	VAL	CA-CB	-5.60	1.47	1.54
1	ey	132	ARG	CA-CB	5.60	1.62	1.53
1	eD	38	PRO	CA-C	5.60	1.61	1.52
1	eM	62	HIS	CG-ND1	5.60	1.44	1.38
1	eM	80	TRP	CA-C	5.60	1.60	1.52
1	fe	120	HIS	ND1-CE1	5.60	1.38	1.32
1	ff	23	TRP	CA-CB	5.60	1.62	1.53
1	fl	190	LEU	C-N	-5.60	1.27	1.33
1	fm	195	ASN	CA-CB	5.60	1.61	1.53
1	fE	140	LYS	C-N	5.60	1.41	1.33
1	fH	62	HIS	CG-CD2	5.60	1.42	1.35
1	b	51	ASP	CA-C	5.60	1.60	1.52
1	e	112	GLN	CA-CB	5.60	1.62	1.53
1	h	18	ARG	CA-CB	5.60	1.62	1.53
1	C	43	LEU	CA-CB	5.60	1.63	1.53
1	gg	87	HIS	ND1-CE1	5.60	1.38	1.32
1	h1	230	VAL	CA-CB	5.60	1.61	1.54
1	i1	202	LEU	N-CA	-5.60	1.39	1.46
1	if	130	TYR	CA-CB	5.60	1.62	1.53
1	iS	27	VAL	CA-C	5.60	1.59	1.52
1	jc	130	TYR	N-CA	-5.60	1.39	1.46
1	jc	188	THR	N-CA	5.60	1.52	1.46
1	jj	10	MET	N-CA	-5.60	1.39	1.46
1	jk	2	ILE	N-CA	-5.60	1.39	1.46
1	kb	18	ARG	NE-CZ	5.60	1.39	1.33
1	2H	221	VAL	C-N	5.60	1.43	1.33
1	34	101	GLY	CA-C	5.60	1.58	1.51
1	3x	230	VAL	CA-CB	5.60	1.63	1.54
1	3P	59	VAL	C-O	5.60	1.30	1.23
1	3S	82	ARG	C-O	-5.60	1.17	1.24
1	3S	88	ALA	C-N	5.60	1.41	1.33
1	47	218	CYS	C-N	5.60	1.41	1.33
1	4q	206	GLY	CA-C	-5.60	1.44	1.51
1	4I	195	ASN	N-CA	5.60	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4K	27	VAL	CA-C	5.60	1.59	1.52
1	55	12	HIS	CG-ND1	5.60	1.44	1.38
1	5d	37	ILE	N-CA	5.60	1.53	1.46
1	5D	181	VAL	N-CA	-5.60	1.39	1.46
1	5F	122	PRO	CA-C	5.60	1.64	1.52
1	63	13	GLN	CA-CB	5.60	1.60	1.53
1	6p	20	LEU	CA-C	5.60	1.60	1.52
1	6B	90	PRO	C-N	5.60	1.41	1.33
1	8i	12	HIS	CD2-NE2	5.60	1.44	1.37
1	8m	136	LEU	N-CA	-5.60	1.39	1.46
1	8V	137	GLY	CA-C	-5.60	1.45	1.51
1	9S	62	HIS	CA-C	-5.60	1.45	1.53
1	ar	98	GLU	CA-C	5.60	1.59	1.53
1	aC	27	VAL	N-CA	-5.60	1.39	1.46
1	aF	135	ILE	CA-CB	-5.60	1.47	1.54
1	b3	208	ALA	N-CA	-5.60	1.38	1.46
1	bM	157	PRO	N-CD	5.60	1.55	1.47
1	c5	125	PRO	CA-CB	-5.60	1.45	1.53
1	ch	159	GLU	CA-C	5.60	1.58	1.52
1	cM	193	ASN	N-CA	5.60	1.53	1.46
1	cP	173	ARG	CA-CB	5.60	1.62	1.53
1	cV	226	HIS	N-CA	5.60	1.53	1.46
1	e0	152	ASP	CA-C	5.60	1.60	1.52
1	eh	52	LEU	N-CA	5.60	1.53	1.46
1	ep	44	SER	C-N	5.60	1.41	1.33
1	eV	109	SER	CA-CB	5.60	1.62	1.53
1	fb	120	HIS	CE1-NE2	-5.60	1.26	1.32
1	fe	62	HIS	CG-ND1	5.60	1.44	1.38
1	fY	169	TYR	CZ-OH	5.60	1.49	1.38
1	fZ	42	ALA	CA-C	-5.60	1.45	1.52
1	e	118	MET	C-N	5.60	1.41	1.33
1	gI	178	SER	C-N	5.59	1.41	1.33
1	gU	52	LEU	CB-CG	5.59	1.64	1.53
1	ha	16	SER	CA-CB	5.59	1.61	1.53
1	ha	166	ASP	CA-CB	5.59	1.62	1.53
1	hn	123	PRO	CA-CB	-5.59	1.46	1.53
1	hp	151	LEU	CA-C	5.59	1.59	1.52
1	hw	126	VAL	CA-CB	-5.59	1.47	1.54
1	hy	166	ASP	C-O	5.59	1.30	1.24
1	1N	51	ASP	N-CA	-5.59	1.39	1.46
1	1N	139	ASN	C-O	-5.59	1.17	1.24
1	ia	188	THR	C-O	-5.59	1.16	1.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1P	174	ALA	C-N	5.59	1.40	1.33
1	j3	145	TYR	CA-C	5.59	1.60	1.52
1	j7	62	HIS	CE1-NE2	5.59	1.38	1.32
1	jk	229	ARG	C-O	-5.59	1.15	1.24
1	jl	96	MET	CA-C	5.59	1.60	1.52
1	jv	123	PRO	C-N	5.59	1.37	1.32
1	jL	102	SER	CA-C	-5.59	1.45	1.52
1	jS	116	GLY	C-N	5.59	1.41	1.33
1	kd	105	ALA	C-N	5.59	1.40	1.33
1	kl	62	HIS	CE1-NE2	5.59	1.38	1.32
1	kt	91	ILE	CA-C	5.59	1.59	1.52
1	kH	184	TRP	NE1-CE2	5.59	1.43	1.37
1	kS	150	ILE	CA-CB	-5.59	1.47	1.54
1	kY	1	PRO	CA-CB	5.59	1.64	1.53
1	l4	33	SER	CA-CB	5.59	1.62	1.54
1	l4	223	GLY	C-N	-5.59	1.28	1.33
1	ld	47	ALA	N-CA	-5.59	1.38	1.46
1	lt	161	PHE	C-N	5.59	1.41	1.33
1	lM	117	TRP	C-N	5.59	1.41	1.33
1	2e	229	ARG	CD-NE	5.59	1.54	1.46
1	2y	119	THR	CA-C	5.59	1.60	1.52
1	2y	170	LYS	CA-C	5.59	1.60	1.52
1	2Y	16	SER	CA-CB	5.59	1.64	1.53
1	31	156	GLY	CA-C	-5.59	1.44	1.51
1	3G	100	ARG	C-N	5.59	1.40	1.33
1	3O	216	THR	CA-C	5.59	1.59	1.52
1	47	226	HIS	CE1-NE2	5.59	1.38	1.32
1	4t	51	ASP	CA-CB	5.59	1.62	1.53
1	4V	84	HIS	CE1-NE2	-5.59	1.26	1.32
1	5l	190	LEU	C-O	-5.59	1.17	1.24
1	5u	67	GLN	C-N	5.59	1.41	1.33
1	5y	171	THR	N-CA	5.59	1.53	1.46
1	5D	27	VAL	CA-CB	5.59	1.60	1.54
1	5F	124	ILE	CA-CB	-5.59	1.47	1.54
1	5P	112	GLN	CA-CB	5.59	1.63	1.53
1	5S	141	ILE	CA-C	-5.59	1.46	1.52
1	5V	147	PRO	CA-CB	5.59	1.61	1.53
1	65	154	ARG	CA-C	5.59	1.59	1.52
1	6q	120	HIS	ND1-CE1	5.59	1.38	1.32
1	6u	38	PRO	CA-C	5.59	1.60	1.52
1	6S	209	ALA	CA-C	-5.59	1.45	1.52
1	6Y	163	ASP	C-N	5.59	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Z	173	ARG	CD-NE	5.59	1.54	1.46
1	7a	48	THR	N-CA	-5.59	1.37	1.45
1	7R	122	PRO	N-CD	-5.59	1.40	1.47
1	8w	28	GLU	C-O	5.59	1.30	1.24
1	8B	202	LEU	N-CA	-5.59	1.39	1.46
1	9a	226	HIS	CA-C	-5.59	1.45	1.52
1	9g	78	ALA	N-CA	-5.59	1.39	1.46
1	9l	51	ASP	C-O	-5.59	1.17	1.24
1	9O	16	SER	N-CA	5.59	1.53	1.45
1	9O	205	LEU	CA-C	5.59	1.60	1.52
1	a2	21	ASN	N-CA	5.59	1.53	1.46
1	a7	84	HIS	CG-CD2	5.59	1.42	1.35
1	ab	201	ILE	N-CA	-5.59	1.39	1.46
1	ai	154	ARG	CB-CG	5.59	1.69	1.52
1	aA	84	HIS	CD2-NE2	5.59	1.44	1.37
1	aX	208	ALA	N-CA	-5.59	1.40	1.46
1	bH	211	LEU	C-N	5.59	1.41	1.33
1	bM	143	ARG	NE-CZ	-5.59	1.26	1.33
1	cp	151	LEU	CA-C	5.59	1.60	1.52
1	cI	227	LYS	CA-C	5.59	1.60	1.52
1	cT	82	ARG	CA-CB	5.59	1.62	1.53
1	cV	112	GLN	CA-C	5.59	1.60	1.52
1	db	170	LYS	CA-CB	5.59	1.62	1.53
1	dH	201	ILE	C-N	-5.59	1.25	1.33
1	dO	125	PRO	N-CD	5.59	1.55	1.47
1	dT	146	SER	CA-CB	5.59	1.63	1.53
1	dV	30	LYS	CA-CB	5.59	1.62	1.53
1	e6	149	SER	N-CA	-5.59	1.39	1.45
1	es	2	ILE	CA-C	5.59	1.59	1.52
1	fp	41	SER	CA-CB	5.59	1.62	1.53
1	fr	162	ARG	CD-NE	5.59	1.54	1.46
1	fz	102	SER	CA-CB	5.59	1.62	1.53
1	1z	87	HIS	CD2-NE2	5.59	1.44	1.37
1	fP	1	PRO	N-CD	5.59	1.55	1.47
1	fS	179	GLN	CA-CB	5.59	1.62	1.53
1	fZ	185	MET	C-O	-5.59	1.17	1.24
1	g0	5	ASN	CA-C	5.59	1.60	1.53
1	g2	133	TRP	CD2-CE3	-5.59	1.31	1.40
1	1	49	PRO	C-N	5.59	1.41	1.33
1	o	83	LEU	C-N	5.59	1.38	1.33
1	D	101	GLY	C-N	5.59	1.41	1.33
1	O	82	ARG	N-CA	-5.59	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	141	ILE	C-N	-5.59	1.26	1.33
1	1E	220	GLY	N-CA	5.59	1.53	1.45
1	h2	113	GLU	CA-CB	5.59	1.62	1.53
1	h2	167	ARG	N-CA	-5.59	1.39	1.46
1	1N	143	ARG	CA-CB	5.59	1.62	1.53
1	iu	67	GLN	CA-CB	5.59	1.62	1.53
1	iy	145	TYR	CA-C	5.59	1.60	1.52
1	iC	39	MET	CA-CB	5.59	1.62	1.53
1	1X	131	LYS	N-CA	-5.59	1.39	1.46
1	jJ	212	GLU	N-CA	-5.59	1.39	1.46
1	ke	10	MET	CA-CB	5.59	1.62	1.53
1	kv	141	ILE	CA-CB	-5.59	1.47	1.54
1	lD	64	ALA	C-N	5.59	1.41	1.33
1	2b	129	ILE	N-CA	-5.59	1.40	1.46
1	2v	132	ARG	CD-NE	5.59	1.54	1.46
1	44	190	LEU	CA-C	-5.59	1.45	1.52
1	4j	196	PRO	C-N	5.59	1.41	1.33
1	4s	3	VAL	C-N	5.59	1.41	1.33
1	4H	78	ALA	C-N	5.59	1.41	1.33
1	5n	40	PHE	N-CA	-5.59	1.39	1.46
1	6D	131	LYS	C-N	5.59	1.41	1.33
1	7L	129	ILE	N-CA	5.59	1.53	1.46
1	7V	24	VAL	CA-CB	-5.59	1.47	1.54
1	87	215	MET	CA-C	5.59	1.60	1.52
1	8G	108	THR	CA-C	5.59	1.61	1.52
1	8O	195	ASN	C-O	-5.59	1.16	1.23
1	8Q	87	HIS	CA-CB	5.59	1.62	1.53
1	9l	98	GLU	CA-CB	5.59	1.62	1.52
1	9C	186	THR	N-CA	-5.59	1.39	1.46
1	9I	168	PHE	N-CA	-5.59	1.39	1.46
1	9Q	84	HIS	ND1-CE1	5.59	1.38	1.32
1	ag	86	VAL	CA-C	5.59	1.61	1.52
1	ap	4	GLN	CA-C	-5.59	1.45	1.52
1	aJ	13	GLN	CA-CB	5.59	1.62	1.53
1	bt	8	GLY	C-O	5.59	1.31	1.23
1	bS	226	HIS	ND1-CE1	5.59	1.38	1.32
1	bY	24	VAL	C-N	-5.59	1.26	1.33
1	bZ	139	ASN	N-CA	5.59	1.53	1.46
1	d6	175	GLU	CA-C	5.59	1.58	1.52
1	dd	49	PRO	N-CA	-5.59	1.40	1.47
1	dp	124	ILE	CB-CG1	5.59	1.64	1.53
1	1m	43	LEU	CA-CB	5.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1m	157	PRO	C-N	-5.59	1.26	1.33
1	dL	134	ILE	CA-C	-5.59	1.45	1.52
1	ef	37	ILE	CA-CB	5.59	1.56	1.54
1	ei	19	THR	CB-OG1	-5.59	1.34	1.43
1	fc	83	LEU	C-N	5.59	1.38	1.33
1	fG	154	ARG	N-CA	-5.59	1.38	1.45
1	fS	59	VAL	CA-C	5.59	1.59	1.52
1	5	135	ILE	N-CA	5.59	1.53	1.46
1	gg	18	ARG	C-O	-5.59	1.17	1.24
1	gr	54	THR	CA-CB	5.59	1.62	1.53
1	gO	203	LYS	CA-CB	5.59	1.62	1.53
1	gX	103	ASP	CA-CB	5.59	1.62	1.53
1	hl	30	LYS	CA-CB	5.59	1.62	1.54
1	1K	172	LEU	N-CA	-5.59	1.39	1.46
1	hD	216	THR	CA-C	-5.59	1.45	1.52
1	1L	110	THR	C-N	5.59	1.41	1.33
1	iw	73	ILE	N-CA	-5.59	1.39	1.46
1	iw	193	ASN	CA-CB	5.59	1.63	1.53
1	iV	90	PRO	CA-C	-5.59	1.46	1.52
1	jA	112	GLN	CA-C	5.59	1.60	1.52
1	jC	90	PRO	C-N	-5.59	1.25	1.33
1	jF	76	GLU	N-CA	5.59	1.53	1.46
1	jM	173	ARG	CA-C	-5.59	1.45	1.52
1	k9	190	LEU	C-N	5.59	1.40	1.33
1	kf	75	GLU	CA-CB	5.59	1.62	1.53
1	21	9	GLN	C-N	5.59	1.40	1.33
1	kx	83	LEU	N-CA	-5.59	1.39	1.46
1	l4	44	SER	CA-C	-5.59	1.44	1.52
1	le	223	GLY	N-CA	5.59	1.52	1.44
1	lx	65	ALA	N-CA	5.59	1.53	1.46
1	lE	188	THR	CA-CB	-5.59	1.45	1.53
1	lG	179	GLN	C-O	-5.59	1.17	1.24
1	lI	88	ALA	CA-CB	5.59	1.61	1.53
1	lO	33	SER	CA-CB	5.59	1.62	1.54
1	2b	144	MET	N-CA	5.59	1.53	1.46
1	2p	222	GLY	N-CA	5.59	1.52	1.45
1	2u	29	GLU	CA-C	5.59	1.60	1.53
1	2v	188	THR	C-N	5.59	1.40	1.33
1	3j	6	LEU	CA-C	5.59	1.60	1.53
1	3M	141	ILE	C-N	5.59	1.41	1.33
1	3T	84	HIS	C-N	-5.59	1.26	1.33
1	41	79	GLU	CA-C	5.59	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	47	7	GLN	CA-CB	5.59	1.62	1.53
1	4i	176	GLN	C-N	5.59	1.41	1.33
1	4F	206	GLY	C-O	-5.59	1.16	1.24
1	4Q	62	HIS	CE1-NE2	5.59	1.38	1.32
1	52	135	ILE	CA-CB	5.59	1.60	1.54
1	54	142	VAL	N-CA	-5.59	1.39	1.46
1	5p	136	LEU	CB-CG	5.59	1.64	1.53
1	5s	151	LEU	N-CA	-5.59	1.39	1.46
1	6u	189	LEU	CA-CB	5.59	1.62	1.53
1	6K	84	HIS	CA-CB	5.59	1.60	1.53
1	6U	120	HIS	N-CA	-5.59	1.39	1.45
1	71	34	PRO	N-CD	-5.59	1.40	1.47
1	74	94	GLY	N-CA	5.59	1.52	1.45
1	7R	118	MET	CA-C	5.59	1.60	1.52
1	7U	115	ILE	C-N	5.59	1.41	1.33
1	7V	93	PRO	CA-CB	-5.59	1.45	1.53
1	7V	171	THR	CA-C	5.59	1.60	1.52
1	85	62	HIS	N-CA	-5.59	1.38	1.46
1	8e	14	ALA	C-N	5.59	1.40	1.33
1	8u	212	GLU	CA-CB	5.59	1.62	1.53
1	8I	11	VAL	C-N	5.59	1.41	1.33
1	8J	57	ASN	CA-C	5.59	1.60	1.52
1	8V	159	GLU	N-CA	5.59	1.54	1.46
1	9f	117	TRP	NE1-CE2	-5.59	1.31	1.37
1	9i	173	ARG	CA-C	-5.59	1.45	1.52
1	9o	20	LEU	C-N	5.59	1.41	1.33
1	a2	40	PHE	CA-C	5.59	1.60	1.52
1	am	119	THR	C-N	5.59	1.41	1.33
1	ao	3	VAL	C-O	5.59	1.29	1.24
1	av	23	TRP	CD2-CE3	5.59	1.49	1.40
1	aC	140	LYS	C-N	5.59	1.40	1.33
1	aS	49	PRO	CA-C	-5.59	1.44	1.52
1	19	202	LEU	C-N	5.59	1.41	1.34
1	bW	214	MET	CG-SD	5.59	1.94	1.80
1	1c	98	GLU	CA-C	5.59	1.59	1.52
1	c8	62	HIS	CA-C	5.59	1.60	1.53
1	cg	182	LYS	CA-CB	5.59	1.62	1.53
1	1e	40	PHE	CG-CD1	5.59	1.50	1.38
1	1f	70	LYS	CA-CB	5.59	1.62	1.53
1	cW	217	ALA	C-N	5.59	1.41	1.33
1	dc	225	GLY	C-N	5.59	1.41	1.33
1	dh	203	LYS	CA-CB	5.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ef	84	HIS	CB-CG	5.59	1.57	1.50
1	es	219	GLN	CA-C	5.59	1.59	1.52
1	fa	228	ALA	C-N	5.59	1.41	1.33
1	fj	84	HIS	CA-C	5.59	1.59	1.52
1	fS	179	GLN	CA-C	-5.59	1.45	1.52
1	j	162	ARG	CD-NE	5.59	1.54	1.46
1	B	38	PRO	CA-C	-5.59	1.44	1.52
1	4	2	ILE	N-CA	-5.59	1.39	1.46
1	gz	169	TYR	CA-C	-5.59	1.45	1.52
1	h3	123	PRO	CA-CB	-5.59	1.46	1.53
1	h3	207	PRO	CA-C	5.59	1.60	1.52
1	h4	116	GLY	C-N	5.59	1.41	1.33
1	he	162	ARG	CD-NE	5.59	1.54	1.46
1	hD	132	ARG	CD-NE	5.59	1.54	1.46
1	hF	135	ILE	C-N	5.59	1.41	1.33
1	hP	103	ASP	CA-C	-5.59	1.45	1.52
1	1N	97	ARG	CA-C	5.59	1.59	1.52
1	iF	133	TRP	N-CA	-5.59	1.39	1.46
1	iI	89	GLY	CA-C	5.59	1.59	1.51
1	jc	96	MET	N-CA	5.59	1.52	1.46
1	jy	180	GLU	N-CA	-5.59	1.39	1.46
1	jE	102	SER	CA-CB	5.59	1.62	1.53
1	jJ	153	ILE	C-N	5.59	1.41	1.33
1	jS	23	TRP	NE1-CE2	-5.59	1.31	1.37
1	k1	215	MET	C-N	5.59	1.41	1.33
1	kb	132	ARG	C-N	5.59	1.41	1.33
1	kc	163	ASP	N-CA	-5.59	1.39	1.46
1	km	103	ASP	CA-C	5.59	1.60	1.52
1	kt	211	LEU	CA-CB	5.59	1.62	1.53
1	22	29	GLU	N-CA	5.59	1.53	1.46
1	lb	75	GLU	CA-C	5.59	1.59	1.52
1	lj	13	GLN	C-N	5.59	1.41	1.33
1	lt	19	THR	C-N	5.59	1.41	1.33
1	lv	59	VAL	C-N	5.59	1.41	1.33
1	lP	207	PRO	C-N	5.59	1.41	1.33
1	2h	222	GLY	C-N	5.59	1.41	1.33
1	2B	116	GLY	C-N	5.59	1.41	1.33
1	2M	40	PHE	CA-CB	5.59	1.62	1.53
1	30	57	ASN	CA-C	5.59	1.60	1.52
1	3r	171	THR	N-CA	5.59	1.53	1.46
1	3G	201	ILE	C-N	5.59	1.41	1.34
1	40	87	HIS	CB-CG	5.59	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	49	77	ALA	CA-C	-5.59	1.45	1.52
1	4c	30	LYS	CA-CB	5.59	1.62	1.54
1	4e	147	PRO	CA-C	-5.59	1.45	1.52
1	4q	172	LEU	CA-CB	5.59	1.62	1.53
1	4A	120	HIS	CB-CG	-5.59	1.42	1.50
1	57	176	GLN	C-N	5.59	1.41	1.33
1	5b	138	LEU	CA-CB	5.59	1.62	1.53
1	5b	162	ARG	CD-NE	5.59	1.54	1.46
1	5c	138	LEU	CA-C	5.59	1.60	1.52
1	5l	120	HIS	CD2-NE2	5.59	1.44	1.37
1	5s	177	ALA	C-N	5.59	1.41	1.33
1	5V	214	MET	CA-CB	-5.59	1.44	1.53
1	6p	75	GLU	N-CA	-5.59	1.39	1.46
1	6s	156	GLY	C-N	5.59	1.40	1.33
1	6v	85	PRO	C-N	5.59	1.40	1.33
1	6B	129	ILE	C-O	-5.59	1.17	1.24
1	6Q	3	VAL	CA-C	-5.59	1.45	1.52
1	7F	64	ALA	CA-C	-5.59	1.45	1.52
1	7F	147	PRO	N-CD	5.59	1.55	1.47
1	80	18	ARG	N-CA	5.59	1.53	1.46
1	81	70	LYS	C-N	5.59	1.41	1.33
1	89	12	HIS	CG-ND1	-5.59	1.32	1.38
1	8T	229	ARG	CD-NE	5.59	1.54	1.46
1	92	23	TRP	C-N	5.59	1.40	1.33
1	9n	147	PRO	CA-CB	-5.59	1.45	1.53
1	9p	61	GLY	CA-C	5.59	1.57	1.52
1	9F	223	GLY	CA-C	5.59	1.59	1.51
1	10	129	ILE	CA-C	-5.59	1.45	1.52
1	ae	208	ALA	CA-C	5.59	1.60	1.52
1	ak	216	THR	N-CA	5.59	1.53	1.46
1	as	50	GLN	C-N	5.59	1.41	1.33
1	12	104	ILE	CA-CB	5.59	1.61	1.54
1	aY	139	ASN	CA-C	5.59	1.59	1.52
1	bg	166	ASP	CA-CB	5.59	1.62	1.53
1	bj	64	ALA	CA-CB	5.59	1.62	1.53
1	bp	227	LYS	CA-CB	5.59	1.62	1.53
1	bw	82	ARG	CA-CB	5.59	1.62	1.53
1	by	166	ASP	CA-C	-5.59	1.45	1.52
1	bG	65	ALA	CA-CB	5.59	1.62	1.53
1	c8	198	CYS	CA-C	-5.59	1.45	1.52
1	ca	32	PHE	C-O	-5.59	1.17	1.24
1	cG	180	GLU	CA-C	-5.59	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cI	226	HIS	CG-CD2	5.59	1.42	1.35
1	1g	23	TRP	C-N	5.59	1.40	1.33
1	cS	204	ALA	N-CA	-5.59	1.39	1.46
1	cT	109	SER	CA-CB	5.59	1.66	1.53
1	cT	112	GLN	C-N	5.59	1.41	1.33
1	dc	226	HIS	ND1-CE1	5.59	1.38	1.32
1	dj	173	ARG	CZ-NH2	-5.59	1.26	1.33
1	1k	1	PRO	N-CA	5.59	1.55	1.47
1	dr	21	ASN	CA-C	-5.59	1.45	1.52
1	dE	226	HIS	CA-C	-5.59	1.45	1.52
1	dG	188	THR	C-N	5.59	1.41	1.33
1	dR	217	ALA	CA-C	-5.59	1.45	1.53
1	ee	55	MET	CA-C	5.59	1.59	1.52
1	ef	231	LEU	CA-CB	-5.59	1.42	1.53
1	eF	11	VAL	CA-CB	-5.59	1.47	1.54
1	eX	50	GLN	CA-C	5.59	1.60	1.52
1	fd	2	ILE	CA-C	-5.59	1.45	1.52
1	fM	214	MET	CA-C	5.59	1.60	1.52
1	v	189	LEU	CA-CB	5.59	1.61	1.53
1	y	58	THR	N-CA	5.59	1.52	1.46
1	I	133	TRP	CA-C	5.59	1.60	1.52
1	M	5	ASN	CA-CB	5.59	1.62	1.53
1	gv	222	GLY	CA-C	-5.59	1.44	1.51
1	gx	180	GLU	CA-C	5.59	1.60	1.52
1	h9	210	THR	CA-CB	-5.59	1.44	1.53
1	hG	112	GLN	N-CA	5.59	1.53	1.46
1	hJ	125	PRO	CA-C	-5.59	1.48	1.53
1	it	143	ARG	CD-NE	5.59	1.54	1.46
1	jm	136	LEU	CA-CB	5.59	1.62	1.53
1	kw	167	ARG	CZ-NH2	-5.59	1.26	1.33
1	li	36	VAL	C-O	-5.59	1.17	1.24
1	lj	229	ARG	CD-NE	5.59	1.54	1.46
1	2y	109	SER	C-O	-5.59	1.17	1.24
1	2E	197	ASP	N-CA	-5.59	1.39	1.46
1	36	83	LEU	CA-CB	5.59	1.62	1.53
1	3a	43	LEU	C-N	5.59	1.40	1.33
1	3F	82	ARG	CZ-NH2	-5.59	1.26	1.33
1	46	96	MET	CA-CB	5.59	1.61	1.53
1	50	143	ARG	CA-CB	5.59	1.62	1.53
1	67	66	MET	CA-CB	-5.59	1.44	1.53
1	7l	175	GLU	CA-C	-5.59	1.45	1.53
1	7F	170	LYS	N-CA	5.59	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7M	180	GLU	CA-CB	5.59	1.62	1.53
1	7V	69	LEU	C-N	5.59	1.41	1.33
1	8q	205	LEU	CA-C	-5.59	1.45	1.52
1	8C	225	GLY	N-CA	5.59	1.52	1.45
1	95	23	TRP	C-O	-5.59	1.17	1.24
1	9i	229	ARG	CD-NE	5.59	1.54	1.46
1	9z	21	ASN	N-CA	-5.59	1.39	1.46
1	aB	43	LEU	CB-CG	-5.59	1.42	1.53
1	aF	106	GLY	C-N	5.59	1.41	1.33
1	bo	172	LEU	CA-CB	5.59	1.62	1.53
1	bx	143	ARG	CA-CB	5.59	1.62	1.53
1	bz	172	LEU	N-CA	5.59	1.53	1.46
1	bX	104	ILE	C-O	-5.59	1.17	1.24
1	c6	192	GLN	CA-C	5.59	1.60	1.52
1	cq	132	ARG	N-CA	-5.59	1.39	1.46
1	dK	136	LEU	C-N	5.59	1.40	1.33
1	f7	80	TRP	N-CA	5.59	1.53	1.46
1	fR	211	LEU	C-N	5.59	1.41	1.33
1	M	35	GLU	C-O	-5.59	1.17	1.24
1	g8	152	ASP	N-CA	5.59	1.53	1.46
1	gJ	8	GLY	CA-C	-5.59	1.44	1.51
1	gS	163	ASP	CA-CB	5.59	1.62	1.53
1	hl	53	ASN	N-CA	5.59	1.53	1.46
1	hr	10	MET	C-N	5.59	1.39	1.33
1	ht	90	PRO	CA-C	5.59	1.59	1.52
1	hG	143	ARG	N-CA	-5.59	1.39	1.46
1	1O	160	PRO	N-CD	5.59	1.55	1.47
1	iy	168	PHE	N-CA	-5.59	1.39	1.46
1	iG	55	MET	CA-CB	5.59	1.62	1.53
1	iI	126	VAL	CA-CB	5.59	1.61	1.54
1	iX	153	ILE	C-N	5.59	1.41	1.33
1	ja	110	THR	C-N	5.59	1.41	1.34
1	je	43	LEU	N-CA	-5.59	1.38	1.46
1	jy	74	ASN	C-N	5.59	1.41	1.33
1	jz	76	GLU	CA-CB	5.59	1.62	1.53
1	jT	200	THR	N-CA	-5.59	1.39	1.46
1	k4	142	VAL	C-O	-5.59	1.17	1.24
1	k8	14	ALA	CA-C	5.59	1.59	1.52
1	kh	138	LEU	CA-CB	5.59	1.62	1.53
1	ks	165	VAL	C-O	-5.59	1.17	1.24
1	kt	168	PHE	N-CA	-5.59	1.39	1.46
1	kG	140	LYS	C-N	5.59	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kM	85	PRO	CA-CB	-5.59	1.46	1.53
1	l7	62	HIS	CA-CB	-5.59	1.44	1.53
1	li	143	ARG	N-CA	-5.59	1.39	1.46
1	lx	54	THR	C-N	5.59	1.41	1.33
1	2i	179	GLN	C-N	5.59	1.41	1.33
1	2p	72	THR	CA-C	-5.59	1.45	1.52
1	30	82	ARG	CA-C	-5.59	1.45	1.52
1	4U	221	VAL	CA-C	-5.59	1.45	1.52
1	5V	142	VAL	CA-CB	-5.59	1.47	1.54
1	6a	203	LYS	CA-C	-5.59	1.45	1.52
1	6t	138	LEU	C-O	-5.59	1.17	1.24
1	6A	202	LEU	CA-CB	5.59	1.62	1.53
1	6N	34	PRO	C-N	-5.59	1.26	1.34
1	6T	161	PHE	C-O	5.59	1.30	1.24
1	71	220	GLY	N-CA	5.59	1.53	1.45
1	74	185	MET	N-CA	-5.59	1.39	1.46
1	7g	168	PHE	N-CA	5.59	1.53	1.46
1	7o	173	ARG	CA-C	-5.59	1.45	1.52
1	7u	71	GLU	C-O	5.59	1.30	1.24
1	7D	49	PRO	C-N	5.59	1.41	1.33
1	8B	87	HIS	CA-CB	5.59	1.62	1.53
1	8H	75	GLU	CA-C	5.59	1.60	1.52
1	8K	217	ALA	CA-CB	5.59	1.62	1.53
1	8R	56	LEU	CA-C	5.59	1.60	1.52
1	9q	180	GLU	C-N	5.59	1.38	1.33
1	9z	100	ARG	N-CA	5.59	1.52	1.45
1	9G	11	VAL	CA-CB	-5.59	1.48	1.54
1	9Z	66	MET	CA-CB	5.59	1.62	1.53
1	aN	199	LYS	C-N	5.59	1.41	1.33
1	16	206	GLY	N-CA	5.59	1.52	1.44
1	bg	191	VAL	CA-CB	-5.59	1.47	1.54
1	bk	23	TRP	NE1-CE2	-5.59	1.31	1.37
1	bm	118	MET	C-N	5.59	1.41	1.33
1	bA	215	MET	CA-CB	5.59	1.62	1.53
1	bM	227	LYS	CA-CB	5.59	1.60	1.53
1	cx	22	ALA	C-N	5.59	1.41	1.33
1	cT	164	TYR	CA-CB	5.59	1.62	1.53
1	1h	63	GLN	CA-CB	5.59	1.62	1.53
1	cY	121	ASN	CA-C	-5.59	1.46	1.52
1	dx	57	ASN	N-CA	5.59	1.53	1.46
1	dz	92	GLU	CA-C	-5.59	1.46	1.52
1	1m	53	ASN	CA-CB	5.59	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dN	133	TRP	CA-CB	5.59	1.62	1.53
1	dV	78	ALA	N-CA	5.59	1.53	1.46
1	dW	57	ASN	CA-CB	5.59	1.62	1.53
1	dX	8	GLY	CA-C	-5.59	1.43	1.52
1	dZ	184	TRP	N-CA	-5.59	1.39	1.46
1	e1	209	ALA	CA-C	5.59	1.59	1.52
1	el	51	ASP	C-O	-5.59	1.17	1.24
1	es	117	TRP	CA-C	-5.59	1.45	1.52
1	f4	137	GLY	CA-C	-5.59	1.45	1.52
1	fg	120	HIS	CB-CG	5.59	1.57	1.50
1	fy	207	PRO	N-CD	-5.59	1.40	1.47
1	1y	176	GLN	N-CA	5.59	1.53	1.46
1	fL	66	MET	C-N	5.59	1.41	1.34
1	fS	142	VAL	CA-C	-5.59	1.46	1.52
1	g4	153	ILE	C-N	5.59	1.40	1.33
1	o	53	ASN	N-CA	5.59	1.53	1.46
1	y	136	LEU	CA-C	5.59	1.59	1.52
1	gg	179	GLN	N-CA	-5.58	1.39	1.46
1	gq	23	TRP	C-N	5.58	1.40	1.33
1	gv	216	THR	C-N	5.58	1.41	1.33
1	h0	175	GLU	C-N	5.58	1.41	1.33
1	h2	59	VAL	CA-CB	5.58	1.60	1.54
1	hD	30	LYS	C-N	5.58	1.39	1.33
1	hF	154	ARG	CZ-NH1	5.58	1.40	1.32
1	hO	143	ARG	CD-NE	5.58	1.54	1.46
1	hR	141	ILE	C-N	5.58	1.40	1.33
1	hW	54	THR	N-CA	-5.58	1.39	1.46
1	j0	86	VAL	CA-C	5.58	1.59	1.52
1	j1	138	LEU	CA-C	5.58	1.60	1.52
1	jb	176	GLN	N-CA	-5.58	1.39	1.46
1	jf	217	ALA	CA-CB	-5.58	1.44	1.53
1	jP	13	GLN	N-CA	-5.58	1.38	1.46
1	jP	111	LEU	N-CA	-5.58	1.39	1.46
1	k9	68	MET	N-CA	5.58	1.53	1.46
1	kc	226	HIS	CA-CB	5.58	1.62	1.53
1	21	128	GLU	C-N	5.58	1.40	1.33
1	37	80	TRP	C-N	5.58	1.41	1.34
1	3j	125	PRO	C-N	5.58	1.41	1.33
1	4N	113	GLU	C-N	5.58	1.40	1.33
1	5h	36	VAL	N-CA	5.58	1.53	1.46
1	5x	56	LEU	C-N	-5.58	1.26	1.34
1	5S	130	TYR	CA-C	5.58	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6I	1	PRO	CA-CB	5.58	1.64	1.53
1	6O	198	CYS	C-N	5.58	1.41	1.33
1	7f	69	LEU	C-N	5.58	1.41	1.33
1	8i	69	LEU	CA-CB	5.58	1.62	1.53
1	92	100	ARG	CA-CB	5.58	1.61	1.53
1	9l	110	THR	C-N	5.58	1.41	1.33
1	9F	217	ALA	C-N	5.58	1.41	1.33
1	aj	162	ARG	N-CA	5.58	1.53	1.46
1	az	120	HIS	ND1-CE1	5.58	1.38	1.32
1	aH	161	PHE	CA-CB	5.58	1.62	1.53
1	bA	208	ALA	C-N	5.58	1.41	1.33
1	bB	117	TRP	NE1-CE2	-5.58	1.31	1.37
1	bM	2	ILE	C-N	5.58	1.40	1.33
1	bW	4	GLN	CA-CB	5.58	1.62	1.53
1	cf	70	LYS	C-O	-5.58	1.17	1.24
1	1f	36	VAL	CA-C	5.58	1.59	1.52
1	ej	165	VAL	CA-CB	5.58	1.62	1.54
1	1y	12	HIS	CB-CG	5.58	1.57	1.50
1	M	185	MET	CA-CB	5.58	1.62	1.53
1	W	170	LYS	CA-C	-5.58	1.45	1.52
1	6	229	ARG	CD-NE	5.58	1.54	1.46
1	gp	66	MET	CG-SD	5.58	1.94	1.80
1	gB	158	LYS	CA-CB	5.58	1.61	1.53
1	gF	18	ARG	CD-NE	5.58	1.54	1.46
1	1I	197	ASP	C-N	5.58	1.41	1.33
1	hg	42	ALA	N-CA	5.58	1.53	1.46
1	hx	70	LYS	CA-CB	5.58	1.62	1.53
1	hC	89	GLY	N-CA	5.58	1.52	1.44
1	hK	196	PRO	C-N	5.58	1.41	1.33
1	hK	228	ALA	N-CA	-5.58	1.39	1.46
1	hV	144	MET	CG-SD	5.58	1.94	1.80
1	i0	128	GLU	CA-CB	5.58	1.62	1.53
1	im	215	MET	CA-C	5.58	1.59	1.52
1	iG	40	PHE	CA-CB	5.58	1.62	1.53
1	iR	120	HIS	CD2-NE2	5.58	1.44	1.37
1	iY	149	SER	C-N	5.58	1.40	1.33
1	1T	53	ASN	CA-C	-5.58	1.45	1.52
1	j3	133	TRP	CA-CB	5.58	1.62	1.53
1	j4	128	GLU	CA-CB	5.58	1.62	1.53
1	jr	61	GLY	N-CA	5.58	1.52	1.45
1	js	73	ILE	C-N	5.58	1.40	1.33
1	1W	12	HIS	C-N	5.58	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jR	179	GLN	CA-C	-5.58	1.45	1.52
1	jY	23	TRP	C-N	5.58	1.40	1.33
1	k8	162	ARG	CA-C	-5.58	1.45	1.52
1	kl	201	ILE	CA-C	-5.58	1.46	1.52
1	kn	213	GLU	CA-C	-5.58	1.45	1.52
1	24	57	ASN	CA-C	5.58	1.60	1.52
1	kO	153	ILE	N-CA	-5.58	1.39	1.46
1	l1	9	GLN	CA-C	-5.58	1.44	1.52
1	2a	180	GLU	CA-CB	5.58	1.62	1.53
1	lM	5	ASN	N-CA	-5.58	1.39	1.46
1	34	121	ASN	C-N	5.58	1.44	1.34
1	3i	91	ILE	CA-C	-5.58	1.45	1.52
1	3o	180	GLU	C-N	5.58	1.40	1.33
1	3r	114	GLN	CA-CB	5.58	1.62	1.53
1	3y	73	ILE	CA-CB	-5.58	1.47	1.54
1	3C	80	TRP	NE1-CE2	5.58	1.43	1.37
1	3O	118	MET	C-N	5.58	1.41	1.33
1	3R	10	MET	N-CA	-5.58	1.39	1.46
1	4i	219	GLN	N-CA	-5.58	1.39	1.46
1	4m	84	HIS	CB-CG	5.58	1.57	1.50
1	4t	87	HIS	CA-C	-5.58	1.45	1.52
1	4E	118	MET	N-CA	5.58	1.53	1.46
1	4X	174	ALA	CA-C	5.58	1.59	1.52
1	4Y	167	ARG	CD-NE	5.58	1.54	1.46
1	50	121	ASN	CA-CB	5.58	1.61	1.53
1	58	178	SER	N-CA	-5.58	1.39	1.46
1	5c	208	ALA	N-CA	-5.58	1.38	1.46
1	5d	228	ALA	CA-CB	5.58	1.62	1.53
1	5o	84	HIS	C-O	-5.58	1.20	1.25
1	5E	149	SER	C-N	5.58	1.40	1.33
1	5V	136	LEU	CA-C	5.58	1.60	1.52
1	5W	136	LEU	C-N	5.58	1.40	1.33
1	5Y	116	GLY	N-CA	5.58	1.53	1.45
1	5Z	201	ILE	CA-C	5.58	1.59	1.52
1	66	21	ASN	N-CA	5.58	1.53	1.46
1	6n	31	ALA	C-N	5.58	1.40	1.33
1	6F	28	GLU	C-N	5.58	1.41	1.33
1	6F	28	GLU	N-CA	-5.58	1.39	1.46
1	6K	90	PRO	CA-CB	5.58	1.60	1.53
1	6L	202	LEU	C-N	5.58	1.41	1.33
1	7u	153	ILE	CA-CB	5.58	1.60	1.54
1	7w	113	GLU	CA-C	5.58	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	82	18	ARG	C-N	5.58	1.41	1.33
1	84	97	ARG	C-N	5.58	1.41	1.33
1	8m	219	GLN	C-N	5.58	1.40	1.33
1	8o	148	THR	CA-C	-5.58	1.45	1.52
1	8r	28	GLU	N-CA	-5.58	1.39	1.46
1	8B	84	HIS	CG-CD2	-5.58	1.29	1.35
1	8M	131	LYS	CA-C	-5.58	1.45	1.52
1	9f	14	ALA	CA-CB	5.58	1.62	1.53
1	9s	129	ILE	C-N	5.58	1.41	1.34
1	9y	203	LYS	N-CA	-5.58	1.39	1.46
1	9z	155	GLN	CA-C	5.58	1.59	1.52
1	9Y	94	GLY	C-N	5.58	1.41	1.33
1	a2	117	TRP	N-CA	-5.58	1.39	1.46
1	a4	83	LEU	C-N	5.58	1.39	1.33
1	11	12	HIS	CD2-NE2	5.58	1.44	1.37
1	12	174	ALA	CA-CB	5.58	1.62	1.53
1	aw	210	THR	CA-C	5.58	1.60	1.53
1	b3	12	HIS	CE1-NE2	5.58	1.38	1.32
1	b6	35	GLU	N-CA	-5.58	1.38	1.46
1	bE	145	TYR	N-CA	-5.58	1.39	1.46
1	1b	92	GLU	CA-CB	5.58	1.61	1.53
1	c0	30	LYS	CA-CB	5.58	1.62	1.53
1	1g	11	VAL	N-CA	5.58	1.53	1.46
1	cM	84	HIS	ND1-CE1	5.58	1.38	1.32
1	cX	121	ASN	C-O	-5.58	1.20	1.25
1	dm	121	ASN	CA-C	5.58	1.57	1.52
1	dy	35	GLU	N-CA	5.58	1.53	1.46
1	dE	140	LYS	C-N	5.58	1.41	1.33
1	dQ	24	VAL	CA-CB	5.58	1.60	1.54
1	e5	41	SER	CA-CB	5.58	1.62	1.53
1	e8	10	MET	C-N	-5.58	1.26	1.33
1	ea	154	ARG	CZ-NH2	-5.58	1.26	1.33
1	eE	117	TRP	CA-C	5.58	1.60	1.52
1	eP	71	GLU	N-CA	5.58	1.53	1.46
1	eW	87	HIS	CG-ND1	-5.58	1.32	1.38
1	f8	10	MET	C-N	5.58	1.39	1.33
1	fr	99	PRO	CA-C	5.58	1.59	1.52
1	fw	75	GLU	CA-CB	5.58	1.62	1.53
1	fI	84	HIS	ND1-CE1	5.58	1.38	1.32
1	fS	124	ILE	CA-C	5.58	1.58	1.52
1	B	144	MET	CA-CB	5.58	1.62	1.53
1	F	100	ARG	CD-NE	5.58	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	175	GLU	CA-C	5.58	1.59	1.52
1	gg	123	PRO	CA-CB	-5.58	1.45	1.53
1	gJ	195	ASN	CA-CB	5.58	1.61	1.53
1	1I	87	HIS	CE1-NE2	5.58	1.38	1.32
1	hF	211	LEU	CA-C	5.58	1.60	1.52
1	i3	84	HIS	CA-C	5.58	1.59	1.52
1	ib	95	GLN	CA-C	-5.58	1.45	1.52
1	id	24	VAL	C-N	5.58	1.40	1.33
1	ik	140	LYS	CA-CB	5.58	1.62	1.53
1	it	28	GLU	C-N	5.58	1.41	1.33
1	j5	22	ALA	CA-C	5.58	1.60	1.52
1	j9	35	GLU	CA-C	5.58	1.60	1.52
1	jh	81	ASP	C-N	5.58	1.42	1.33
1	jw	223	GLY	N-CA	5.58	1.52	1.44
1	jy	108	THR	CA-C	-5.58	1.44	1.52
1	jC	144	MET	CA-CB	5.58	1.62	1.53
1	jT	26	VAL	C-N	5.58	1.40	1.33
1	k3	208	ALA	N-CA	5.58	1.53	1.46
1	k4	214	MET	N-CA	-5.58	1.39	1.46
1	kl	39	MET	CA-CB	5.58	1.62	1.53
1	kt	105	ALA	C-N	5.58	1.40	1.33
1	kK	217	ALA	C-N	5.58	1.41	1.33
1	l3	47	ALA	C-N	5.58	1.43	1.33
1	lJ	136	LEU	CA-C	5.58	1.60	1.52
1	lK	200	THR	C-N	5.58	1.41	1.33
1	lN	15	ILE	C-O	-5.58	1.17	1.24
1	2c	143	ARG	CD-NE	5.58	1.54	1.46
1	38	48	THR	CA-CB	5.58	1.62	1.53
1	38	99	PRO	N-CA	-5.58	1.40	1.47
1	3i	22	ALA	CA-C	-5.58	1.45	1.52
1	3s	189	LEU	CA-C	-5.58	1.49	1.52
1	3y	20	LEU	CA-CB	5.58	1.62	1.53
1	3C	114	GLN	CA-CB	5.58	1.62	1.53
1	3T	113	GLU	C-N	5.58	1.40	1.33
1	48	110	THR	C-N	5.58	1.41	1.33
1	4q	14	ALA	CA-C	-5.58	1.45	1.52
1	4u	4	GLN	CA-CB	5.58	1.62	1.53
1	4z	122	PRO	C-N	-5.58	1.26	1.33
1	4W	197	ASP	CA-C	-5.58	1.45	1.52
1	50	7	GLN	CA-CB	-5.58	1.45	1.53
1	5c	26	VAL	C-O	-5.58	1.17	1.24
1	5r	203	LYS	CA-CB	5.58	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5A	57	ASN	CA-CB	5.58	1.62	1.53
1	5R	84	HIS	ND1-CE1	5.58	1.38	1.32
1	6U	204	ALA	C-N	5.58	1.41	1.33
1	70	17	PRO	CA-C	5.58	1.62	1.52
1	7b	220	GLY	CA-C	5.58	1.59	1.51
1	7x	53	ASN	N-CA	5.58	1.53	1.46
1	7E	154	ARG	CA-C	5.58	1.59	1.52
1	7M	191	VAL	CA-C	-5.58	1.46	1.52
1	7Y	190	LEU	N-CA	-5.58	1.39	1.46
1	85	33	SER	CA-C	5.58	1.59	1.52
1	8k	138	LEU	C-N	5.58	1.41	1.34
1	8R	179	GLN	C-N	5.58	1.41	1.33
1	91	4	GLN	C-N	5.58	1.41	1.33
1	9l	121	ASN	N-CA	-5.58	1.39	1.46
1	9z	120	HIS	C-N	5.58	1.40	1.33
1	9J	126	VAL	C-N	-5.58	1.27	1.33
1	9T	83	LEU	N-CA	-5.58	1.39	1.46
1	13	87	HIS	ND1-CE1	5.58	1.38	1.32
1	aI	37	ILE	C-N	5.58	1.40	1.34
1	aL	28	GLU	C-O	-5.58	1.17	1.24
1	14	102	SER	C-N	5.58	1.41	1.33
1	aQ	105	ALA	CA-C	5.58	1.61	1.52
1	be	42	ALA	C-O	-5.58	1.17	1.24
1	bn	158	LYS	N-CA	-5.58	1.38	1.46
1	br	73	ILE	C-O	5.58	1.30	1.24
1	bt	118	MET	CA-C	-5.58	1.45	1.52
1	bT	4	GLN	CA-C	5.58	1.60	1.52
1	c1	62	HIS	CG-CD2	-5.58	1.29	1.35
1	1c	218	CYS	C-O	5.58	1.30	1.23
1	cb	25	LYS	C-N	5.58	1.41	1.33
1	cv	112	GLN	N-CA	-5.58	1.39	1.46
1	cw	177	ALA	CA-C	5.58	1.59	1.52
1	1f	65	ALA	C-N	5.58	1.41	1.33
1	cS	62	HIS	CA-C	-5.58	1.45	1.53
1	cX	189	LEU	N-CA	5.58	1.51	1.46
1	d0	62	HIS	CG-CD2	-5.58	1.29	1.35
1	d0	198	CYS	N-CA	-5.58	1.38	1.46
1	da	188	THR	CA-C	5.58	1.58	1.52
1	dz	210	THR	CA-C	-5.58	1.45	1.52
1	dD	141	ILE	CB-CG1	5.58	1.64	1.53
1	dE	189	LEU	CA-CB	5.58	1.62	1.53
1	dP	93	PRO	CA-CB	5.58	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e0	64	ALA	CA-C	-5.58	1.45	1.52
1	1p	170	LYS	N-CA	-5.58	1.39	1.46
1	eh	228	ALA	C-N	5.58	1.41	1.33
1	fv	118	MET	C-N	5.58	1.42	1.33
1	fD	226	HIS	ND1-CE1	5.58	1.38	1.32
1	fW	23	TRP	CA-CB	5.58	1.62	1.53
1	3	47	ALA	CA-C	5.58	1.59	1.52
1	R	120	HIS	C-N	5.58	1.40	1.33
1	gi	16	SER	CA-C	-5.58	1.46	1.53
1	hQ	171	THR	CA-CB	5.58	1.61	1.53
1	i8	149	SER	CA-CB	5.58	1.62	1.53
1	1O	6	LEU	CA-CB	5.58	1.62	1.53
1	iD	146	SER	C-O	-5.58	1.21	1.23
1	1R	120	HIS	CA-CB	5.58	1.62	1.53
1	j7	153	ILE	CA-C	5.58	1.59	1.53
1	k5	153	ILE	N-CA	5.58	1.53	1.46
1	kz	85	PRO	CA-C	-5.58	1.45	1.53
1	kP	66	MET	C-N	5.58	1.41	1.33
1	lf	100	ARG	CD-NE	5.58	1.54	1.46
1	lh	180	GLU	N-CA	5.58	1.53	1.46
1	lk	20	LEU	CA-CB	5.58	1.62	1.53
1	ly	79	GLU	C-N	5.58	1.41	1.33
1	2i	18	ARG	C-N	5.58	1.41	1.33
1	3e	67	GLN	CA-CB	5.58	1.62	1.53
1	3T	195	ASN	CA-CB	5.58	1.61	1.53
1	44	57	ASN	CA-CB	5.58	1.62	1.53
1	46	69	LEU	CA-C	-5.58	1.45	1.52
1	5f	214	MET	C-N	5.58	1.42	1.33
1	5s	210	THR	C-N	5.58	1.41	1.33
1	61	87	HIS	CG-ND1	5.58	1.44	1.38
1	6C	186	THR	N-CA	-5.58	1.39	1.46
1	7H	82	ARG	C-N	5.58	1.41	1.33
1	a5	182	LYS	CA-C	-5.58	1.45	1.52
1	ay	173	ARG	CD-NE	5.58	1.54	1.46
1	aS	122	PRO	N-CA	-5.58	1.37	1.47
1	aV	182	LYS	C-N	5.58	1.41	1.33
1	bi	140	LYS	C-N	5.58	1.40	1.33
1	bt	94	GLY	N-CA	5.58	1.53	1.45
1	bv	157	PRO	C-N	5.58	1.41	1.33
1	bw	38	PRO	CA-C	-5.58	1.44	1.52
1	cd	59	VAL	C-N	5.58	1.41	1.33
1	dc	36	VAL	C-O	-5.58	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dy	169	TYR	CA-C	5.58	1.60	1.52
1	dZ	68	MET	CA-C	-5.58	1.45	1.52
1	e8	64	ALA	N-CA	-5.58	1.39	1.46
1	ej	87	HIS	C-N	5.58	1.41	1.33
1	eG	100	ARG	CA-C	-5.58	1.45	1.53
1	fS	201	ILE	CA-C	5.58	1.59	1.52
1	gz	103	ASP	C-N	5.58	1.41	1.33
1	gG	166	ASP	CA-C	5.58	1.59	1.52
1	h1	180	GLU	C-N	5.58	1.40	1.33
1	hj	160	PRO	C-N	-5.58	1.25	1.33
1	1J	64	ALA	CA-CB	5.58	1.62	1.53
1	hw	168	PHE	CA-CB	5.58	1.62	1.53
1	hE	125	PRO	CA-CB	5.58	1.60	1.53
1	hQ	224	PRO	C-N	5.58	1.41	1.33
1	hR	173	ARG	CD-NE	5.58	1.54	1.46
1	i4	51	ASP	CA-C	5.58	1.59	1.52
1	1O	95	GLN	CA-CB	5.58	1.62	1.53
1	ip	36	VAL	C-N	5.58	1.39	1.33
1	iM	142	VAL	CA-CB	-5.58	1.47	1.54
1	jg	7	GLN	N-CA	5.58	1.53	1.46
1	jt	72	THR	CA-CB	-5.58	1.44	1.53
1	jD	96	MET	CA-C	5.58	1.60	1.52
1	jU	32	PHE	CA-CB	5.58	1.62	1.53
1	jW	39	MET	CA-C	-5.58	1.45	1.52
1	ke	36	VAL	N-CA	5.58	1.53	1.46
1	kj	103	ASP	CA-C	5.58	1.59	1.52
1	kk	73	ILE	C-N	5.58	1.41	1.33
1	kv	180	GLU	CA-CB	5.58	1.61	1.53
1	kI	157	PRO	CA-CB	5.58	1.61	1.53
1	kN	226	HIS	CG-CD2	-5.58	1.29	1.35
1	kY	8	GLY	CA-C	5.58	1.59	1.51
1	l8	19	THR	CA-C	-5.58	1.45	1.52
1	lv	165	VAL	N-CA	5.58	1.53	1.46
1	lw	97	ARG	CD-NE	5.58	1.54	1.46
1	lw	229	ARG	CA-C	-5.58	1.47	1.53
1	lD	98	GLU	CA-C	5.58	1.59	1.52
1	2d	11	VAL	CA-C	5.58	1.59	1.52
1	2g	59	VAL	CA-C	-5.58	1.46	1.53
1	2E	152	ASP	CA-CB	5.58	1.62	1.53
1	3U	191	VAL	CA-CB	-5.58	1.47	1.54
1	45	222	GLY	C-O	-5.58	1.18	1.23
1	46	175	GLU	CA-C	5.58	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4d	143	ARG	C-N	5.58	1.42	1.33
1	4l	149	SER	C-O	5.58	1.30	1.23
1	4m	87	HIS	ND1-CE1	5.58	1.38	1.32
1	4M	120	HIS	ND1-CE1	5.58	1.38	1.32
1	4R	73	ILE	C-N	-5.58	1.26	1.33
1	55	2	ILE	CA-CB	-5.58	1.48	1.54
1	5o	56	LEU	CA-C	5.58	1.59	1.52
1	6o	14	ALA	C-N	5.58	1.41	1.33
1	74	201	ILE	CA-C	-5.58	1.46	1.52
1	7p	99	PRO	C-N	5.58	1.41	1.33
1	7I	75	GLU	C-N	5.58	1.41	1.34
1	8w	167	ARG	CA-C	5.58	1.59	1.52
1	8M	201	ILE	C-O	-5.58	1.17	1.24
1	8S	159	GLU	CA-CB	5.58	1.62	1.53
1	8X	81	ASP	CA-C	5.58	1.60	1.52
1	9e	13	GLN	CA-C	5.58	1.59	1.52
1	9g	131	LYS	CA-C	-5.58	1.45	1.52
1	9k	87	HIS	CA-CB	5.58	1.62	1.54
1	9x	9	GLN	C-N	5.58	1.41	1.33
1	9z	32	PHE	CA-CB	5.58	1.60	1.53
1	Z	90	PRO	C-N	-5.58	1.27	1.33
1	a2	164	TYR	CA-CB	5.58	1.62	1.53
1	al	33	SER	CA-CB	5.58	1.61	1.53
1	am	162	ARG	N-CA	5.58	1.53	1.46
1	aY	123	PRO	N-CD	-5.58	1.40	1.47
1	bx	120	HIS	CA-CB	5.58	1.61	1.53
1	c7	18	ARG	CD-NE	5.58	1.54	1.46
1	c7	212	GLU	CA-C	5.58	1.60	1.52
1	cl	152	ASP	C-N	5.58	1.40	1.33
1	cm	6	LEU	CA-C	5.58	1.59	1.52
1	cr	18	ARG	CD-NE	5.58	1.54	1.46
1	cu	196	PRO	N-CD	-5.58	1.40	1.47
1	cA	161	PHE	CA-C	-5.58	1.45	1.52
1	cQ	189	LEU	CA-C	-5.58	1.45	1.52
1	d2	23	TRP	C-O	-5.58	1.17	1.24
1	1j	109	SER	C-O	-5.58	1.17	1.24
1	e6	185	MET	CA-CB	5.58	1.62	1.53
1	e8	23	TRP	CA-CB	5.58	1.62	1.53
1	ew	20	LEU	C-N	5.58	1.41	1.33
1	1t	100	ARG	CA-C	5.58	1.60	1.53
1	eV	190	LEU	CA-C	-5.58	1.45	1.52
1	f3	120	HIS	ND1-CE1	5.58	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f5	41	SER	C-N	5.58	1.41	1.33
1	f5	84	HIS	ND1-CE1	5.58	1.38	1.32
1	fd	126	VAL	CA-C	-5.58	1.45	1.52
1	fy	25	LYS	CA-C	5.58	1.60	1.52
1	fP	116	GLY	N-CA	5.58	1.52	1.45
1	fS	143	ARG	CD-NE	5.58	1.54	1.46
1	fX	201	ILE	CA-C	-5.58	1.45	1.52
1	g7	31	ALA	CA-C	5.58	1.60	1.52
1	8	79	GLU	CA-CB	5.58	1.62	1.53
1	gz	213	GLU	C-N	5.58	1.41	1.34
1	gE	41	SER	N-CA	-5.58	1.39	1.46
1	h6	185	MET	CA-C	5.58	1.60	1.52
1	hy	46	GLY	C-O	-5.58	1.18	1.24
1	hI	173	ARG	CA-C	5.58	1.59	1.52
1	hP	157	PRO	N-CA	5.58	1.53	1.47
1	hU	37	ILE	C-O	-5.58	1.17	1.24
1	i3	185	MET	N-CA	5.58	1.53	1.46
1	iw	167	ARG	CA-CB	5.58	1.61	1.53
1	iH	71	GLU	C-N	5.58	1.41	1.33
1	iT	205	LEU	CA-CB	5.58	1.62	1.53
1	ji	210	THR	C-N	5.58	1.40	1.33
1	kt	126	VAL	C-N	5.58	1.40	1.33
1	kB	189	LEU	N-CA	-5.58	1.39	1.46
1	kM	151	LEU	N-CA	-5.58	1.38	1.46
1	kW	66	MET	SD-CE	5.58	1.93	1.79
1	3x	110	THR	CA-C	-5.58	1.45	1.52
1	4a	135	ILE	CA-CB	-5.58	1.47	1.54
1	4L	117	TRP	CA-C	-5.58	1.45	1.52
1	60	105	ALA	C-N	5.58	1.40	1.33
1	6a	223	GLY	N-CA	5.58	1.52	1.44
1	7p	27	VAL	CA-C	-5.58	1.45	1.52
1	7s	158	LYS	CA-CB	5.58	1.62	1.53
1	7T	18	ARG	CA-CB	5.58	1.61	1.53
1	8r	173	ARG	CD-NE	5.58	1.54	1.46
1	9q	120	HIS	CE1-NE2	-5.58	1.26	1.32
1	9P	54	THR	C-N	5.58	1.41	1.33
1	aH	99	PRO	CA-CB	-5.58	1.46	1.53
1	aI	32	PHE	N-CA	-5.58	1.39	1.46
1	ca	159	GLU	CA-C	5.58	1.59	1.52
1	cm	36	VAL	CA-C	5.58	1.60	1.52
1	eb	144	MET	C-N	5.58	1.41	1.34
1	eb	152	ASP	CA-C	5.58	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ek	230	VAL	C-O	-5.58	1.18	1.24
1	f5	165	VAL	CA-C	-5.58	1.45	1.52
1	fr	80	TRP	CA-CB	5.58	1.61	1.53
1	fK	138	LEU	C-N	5.58	1.41	1.33
1	fQ	36	VAL	CA-C	-5.58	1.45	1.52
1	b	95	GLN	CA-CB	5.58	1.63	1.53
1	e	27	VAL	CA-C	-5.58	1.45	1.52
1	e	41	SER	C-N	5.58	1.41	1.33
1	N	50	GLN	N-CA	5.58	1.53	1.46
1	gt	191	VAL	CA-CB	-5.58	1.47	1.54
1	gu	27	VAL	CA-CB	-5.58	1.47	1.54
1	gQ	118	MET	C-N	5.58	1.41	1.33
1	h8	127	GLY	CA-C	5.58	1.58	1.52
1	hA	200	THR	CA-C	5.58	1.59	1.52
1	hM	203	LYS	CA-CB	5.58	1.61	1.53
1	1M	158	LYS	CA-C	-5.58	1.45	1.52
1	i5	68	MET	N-CA	-5.58	1.39	1.46
1	ic	54	THR	C-O	-5.58	1.17	1.24
1	in	29	GLU	N-CA	-5.58	1.39	1.46
1	1Q	162	ARG	CA-C	-5.58	1.45	1.52
1	iy	200	THR	N-CA	5.58	1.53	1.46
1	iL	206	GLY	CA-C	5.58	1.59	1.51
1	j2	228	ALA	N-CA	-5.58	1.38	1.46
1	ji	19	THR	CA-CB	-5.58	1.44	1.53
1	jC	12	HIS	CB-CG	-5.58	1.42	1.50
1	jC	162	ARG	CD-NE	5.58	1.54	1.46
1	jK	119	THR	C-N	5.58	1.40	1.33
1	jX	120	HIS	CA-C	5.58	1.60	1.52
1	jY	52	LEU	CA-CB	5.58	1.61	1.53
1	k7	70	LYS	CA-C	-5.58	1.45	1.52
1	ka	10	MET	CA-C	5.58	1.59	1.52
1	kE	180	GLU	CA-CB	5.58	1.62	1.53
1	kU	129	ILE	C-O	-5.58	1.17	1.24
1	l1	24	VAL	CA-CB	5.58	1.61	1.54
1	lc	42	ALA	N-CA	-5.58	1.39	1.46
1	ld	223	GLY	CA-C	5.58	1.59	1.51
1	lf	154	ARG	CD-NE	5.58	1.54	1.46
1	lh	62	HIS	ND1-CE1	5.58	1.38	1.32
1	lL	228	ALA	CA-C	5.58	1.60	1.52
1	lO	73	ILE	C-N	5.58	1.41	1.33
1	lP	149	SER	N-CA	-5.58	1.38	1.45
1	2t	50	GLN	N-CA	-5.58	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	39	90	PRO	N-CD	5.58	1.55	1.47
1	3i	67	GLN	CA-C	5.58	1.59	1.52
1	3m	24	VAL	N-CA	5.58	1.53	1.46
1	3q	68	MET	C-O	5.58	1.30	1.24
1	3r	208	ALA	CA-CB	5.58	1.62	1.53
1	4f	45	GLU	CA-C	5.58	1.60	1.52
1	4s	195	ASN	CA-CB	5.58	1.61	1.53
1	51	82	ARG	C-N	5.58	1.41	1.33
1	5i	63	GLN	CA-CB	5.58	1.61	1.53
1	5E	13	GLN	C-O	5.58	1.31	1.24
1	5Y	32	PHE	CA-C	-5.58	1.45	1.52
1	60	87	HIS	CD2-NE2	5.58	1.44	1.37
1	66	30	LYS	CA-C	-5.58	1.45	1.52
1	6t	229	ARG	CA-CB	5.58	1.61	1.53
1	6A	90	PRO	CA-C	5.58	1.59	1.52
1	7i	131	LYS	CA-C	5.58	1.60	1.52
1	7s	104	ILE	C-O	-5.58	1.17	1.24
1	7A	100	ARG	CD-NE	5.58	1.54	1.46
1	7A	112	GLN	CA-CB	5.58	1.62	1.53
1	7L	77	ALA	C-N	5.58	1.41	1.33
1	7P	154	ARG	CA-CB	5.58	1.62	1.53
1	7U	12	HIS	ND1-CE1	5.58	1.38	1.32
1	84	55	MET	N-CA	-5.58	1.39	1.46
1	8e	10	MET	CA-CB	5.58	1.62	1.53
1	8i	31	ALA	C-N	5.58	1.41	1.33
1	8o	212	GLU	CA-CB	5.58	1.62	1.53
1	8D	143	ARG	NE-CZ	5.58	1.39	1.33
1	8Q	148	THR	CA-C	-5.58	1.45	1.52
1	93	224	PRO	CA-C	-5.58	1.44	1.52
1	98	124	ILE	CA-CB	5.58	1.59	1.53
1	9d	143	ARG	C-O	-5.58	1.17	1.24
1	9m	67	GLN	C-O	5.58	1.30	1.24
1	9s	189	LEU	CA-CB	5.58	1.63	1.53
1	9w	147	PRO	N-CA	-5.58	1.40	1.47
1	as	93	PRO	CA-CB	-5.58	1.45	1.53
1	au	203	LYS	CA-C	5.58	1.60	1.52
1	aN	7	GLN	N-CA	-5.58	1.39	1.46
1	aU	42	ALA	CA-C	-5.58	1.45	1.52
1	bq	79	GLU	CA-CB	5.58	1.61	1.53
1	bD	67	GLN	CA-CB	5.58	1.61	1.53
1	bK	73	ILE	CA-C	-5.58	1.46	1.52
1	cg	199	LYS	C-O	5.58	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ct	12	HIS	ND1-CE1	5.58	1.38	1.32
1	cu	18	ARG	C-N	5.58	1.41	1.33
1	cD	64	ALA	CA-C	5.58	1.59	1.52
1	cH	164	TYR	C-N	5.58	1.41	1.33
1	cR	5	ASN	CA-C	5.58	1.59	1.52
1	cS	157	PRO	CA-CB	-5.58	1.45	1.53
1	dl	120	HIS	CG-ND1	5.58	1.44	1.38
1	dG	97	ARG	CA-C	5.58	1.59	1.52
1	dH	28	GLU	N-CA	-5.58	1.39	1.46
1	dO	31	ALA	N-CA	-5.58	1.39	1.46
1	e8	111	LEU	C-N	5.58	1.41	1.33
1	eo	123	PRO	CA-CB	5.58	1.61	1.53
1	eo	182	LYS	CA-C	5.58	1.59	1.52
1	ep	21	ASN	CA-C	-5.58	1.45	1.52
1	eq	51	ASP	N-CA	5.58	1.53	1.46
1	eE	153	ILE	CA-C	-5.58	1.46	1.52
1	fc	186	THR	CA-C	5.58	1.59	1.52
1	fs	18	ARG	N-CA	-5.58	1.39	1.46
1	1A	3	VAL	C-O	-5.58	1.17	1.24
1	q	84	HIS	N-CA	5.58	1.53	1.46
1	N	26	VAL	CA-CB	-5.58	1.47	1.54
1	ge	18	ARG	CD-NE	5.57	1.54	1.46
1	gD	163	ASP	N-CA	-5.57	1.39	1.46
1	hs	140	LYS	C-N	5.57	1.41	1.33
1	hw	53	ASN	CA-C	-5.57	1.45	1.52
1	hC	37	ILE	CA-C	5.57	1.58	1.52
1	ic	73	ILE	CA-CB	-5.57	1.47	1.54
1	im	10	MET	N-CA	-5.57	1.39	1.46
1	iE	153	ILE	CA-CB	5.57	1.60	1.54
1	iH	83	LEU	CA-CB	5.57	1.61	1.53
1	iL	66	MET	C-N	5.57	1.41	1.33
1	iS	142	VAL	CA-C	5.57	1.59	1.52
1	iV	120	HIS	CD2-NE2	5.57	1.44	1.37
1	j7	181	VAL	C-N	5.57	1.41	1.33
1	jA	220	GLY	N-CA	-5.57	1.37	1.45
1	jE	55	MET	CG-SD	5.57	1.94	1.80
1	jS	210	THR	CA-C	-5.57	1.45	1.53
1	jX	43	LEU	CA-C	-5.57	1.45	1.52
1	jY	103	ASP	C-N	5.57	1.41	1.34
1	ka	198	CYS	CA-C	5.57	1.60	1.52
1	kd	18	ARG	CD-NE	5.57	1.54	1.46
1	kG	175	GLU	CA-CB	5.57	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kZ	80	TRP	C-N	5.57	1.41	1.33
1	lg	128	GLU	CA-C	5.57	1.60	1.52
1	28	189	LEU	C-N	5.57	1.41	1.33
1	2j	132	ARG	CD-NE	5.57	1.54	1.46
1	2w	51	ASP	CA-CB	5.57	1.61	1.53
1	2C	122	PRO	C-N	5.57	1.41	1.33
1	2K	172	LEU	C-O	-5.57	1.17	1.24
1	2M	56	LEU	N-CA	5.57	1.53	1.46
1	3i	201	ILE	CA-C	5.57	1.59	1.52
1	3P	229	ARG	CA-C	-5.57	1.45	1.52
1	3Q	12	HIS	CE1-NE2	5.57	1.38	1.32
1	55	18	ARG	CD-NE	5.57	1.54	1.46
1	5a	82	ARG	NE-CZ	5.57	1.39	1.33
1	5t	154	ARG	CD-NE	5.57	1.54	1.46
1	5t	229	ARG	CD-NE	5.57	1.54	1.46
1	5N	118	MET	CA-CB	5.57	1.62	1.53
1	5Y	45	GLU	C-O	-5.57	1.17	1.23
1	68	97	ARG	CD-NE	5.57	1.54	1.46
1	6y	132	ARG	CD-NE	5.57	1.54	1.46
1	6P	162	ARG	CD-NE	5.57	1.54	1.46
1	76	91	ILE	C-N	5.57	1.41	1.33
1	7J	226	HIS	ND1-CE1	5.57	1.38	1.32
1	7Q	88	ALA	C-N	5.57	1.41	1.33
1	8o	37	ILE	C-N	5.57	1.40	1.34
1	8q	165	VAL	CA-C	5.57	1.60	1.52
1	8u	125	PRO	CA-C	5.57	1.57	1.53
1	8E	11	VAL	CA-C	5.57	1.57	1.52
1	8Z	65	ALA	C-N	5.57	1.41	1.33
1	98	137	GLY	N-CA	5.57	1.53	1.45
1	9n	27	VAL	N-CA	5.57	1.53	1.46
1	9W	37	ILE	CA-CB	-5.57	1.51	1.54
1	a3	96	MET	CA-C	5.57	1.59	1.52
1	aO	37	ILE	C-N	-5.57	1.27	1.34
1	bA	73	ILE	CA-CB	5.57	1.60	1.54
1	bU	28	GLU	CA-CB	5.57	1.61	1.53
1	c4	192	GLN	CA-CB	5.57	1.62	1.53
1	cg	195	ASN	N-CA	5.57	1.53	1.45
1	cQ	29	GLU	N-CA	-5.57	1.39	1.46
1	d4	97	ARG	CZ-NH2	-5.57	1.26	1.33
1	d8	59	VAL	N-CA	-5.57	1.39	1.46
1	dc	25	LYS	CA-C	5.57	1.60	1.52
1	dq	141	ILE	N-CA	5.57	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dy	113	GLU	N-CA	5.57	1.53	1.46
1	dD	102	SER	CA-CB	5.57	1.62	1.53
1	dE	14	ALA	CA-C	5.57	1.60	1.52
1	eG	117	TRP	CA-CB	5.57	1.62	1.53
1	eY	7	GLN	CA-CB	5.57	1.60	1.53
1	1u	31	ALA	N-CA	5.57	1.53	1.46
1	fL	187	GLU	CA-C	5.57	1.59	1.52
1	fP	230	VAL	CA-C	5.57	1.59	1.52
1	fZ	62	HIS	CB-CG	5.57	1.57	1.50
1	0	99	PRO	C-O	5.57	1.29	1.23
1	i	168	PHE	C-N	5.57	1.42	1.33
1	w	143	ARG	CA-C	5.57	1.59	1.52
1	A	146	SER	N-CA	-5.57	1.38	1.46
1	D	62	HIS	CB-CG	5.57	1.57	1.50
1	R	76	GLU	C-O	-5.57	1.17	1.24
1	h9	120	HIS	C-N	5.57	1.39	1.33
1	hL	102	SER	CA-CB	5.57	1.62	1.53
1	iF	134	ILE	N-CA	5.57	1.53	1.46
1	iG	201	ILE	CB-CG1	5.57	1.64	1.53
1	1T	214	MET	CA-CB	5.57	1.61	1.53
1	j4	44	SER	N-CA	5.57	1.53	1.46
1	j8	162	ARG	CZ-NH2	-5.57	1.26	1.33
1	lj	103	ASP	CA-CB	5.57	1.61	1.53
1	2B	166	ASP	C-N	5.57	1.41	1.33
1	2U	8	GLY	C-N	5.57	1.41	1.33
1	3m	123	PRO	N-CA	-5.57	1.40	1.47
1	3K	129	ILE	CA-CB	-5.57	1.47	1.54
1	5z	158	LYS	C-N	5.57	1.43	1.33
1	5O	151	LEU	C-O	-5.57	1.17	1.24
1	67	103	ASP	CA-C	5.57	1.60	1.52
1	7f	199	LYS	CA-CB	5.57	1.61	1.53
1	7i	221	VAL	C-O	5.57	1.29	1.24
1	7q	40	PHE	C-N	5.57	1.41	1.33
1	7w	84	HIS	CA-C	5.57	1.59	1.52
1	7E	171	THR	CA-C	5.57	1.60	1.52
1	7F	173	ARG	CZ-NH2	-5.57	1.26	1.33
1	ae	216	THR	C-N	5.57	1.42	1.33
1	aW	209	ALA	CA-C	5.57	1.60	1.52
1	b5	173	ARG	CA-CB	5.57	1.62	1.53
1	cQ	149	SER	CA-C	5.57	1.60	1.52
1	eD	203	LYS	C-O	-5.57	1.16	1.24
1	1t	170	LYS	CA-C	5.57	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f4	85	PRO	CA-CB	5.57	1.61	1.53
1	fc	51	ASP	CA-C	-5.57	1.45	1.52
1	fe	39	MET	N-CA	-5.57	1.39	1.46
1	fH	130	TYR	CA-CB	5.57	1.61	1.53
1	fI	215	MET	CA-C	5.57	1.60	1.52
1	fJ	84	HIS	N-CA	-5.57	1.40	1.46
1	fM	92	GLU	CA-CB	5.57	1.63	1.53
1	g	97	ARG	CA-C	5.57	1.60	1.52
1	4	28	GLU	N-CA	-5.57	1.40	1.47
1	h1	81	ASP	C-N	5.57	1.41	1.33
1	h3	51	ASP	CA-C	5.57	1.60	1.52
1	hh	93	PRO	CA-CB	-5.57	1.46	1.53
1	hi	124	ILE	CB-CG1	5.57	1.64	1.53
1	hM	69	LEU	N-CA	5.57	1.53	1.46
1	hZ	118	MET	CA-CB	5.57	1.62	1.53
1	i1	33	SER	N-CA	5.57	1.51	1.46
1	i3	190	LEU	N-CA	5.57	1.53	1.46
1	1P	134	ILE	N-CA	-5.57	1.40	1.46
1	iQ	124	ILE	CA-CB	-5.57	1.48	1.53
1	j0	113	GLU	N-CA	-5.57	1.39	1.46
1	1T	75	GLU	CA-CB	5.57	1.62	1.53
1	jL	96	MET	CA-C	5.57	1.60	1.52
1	jT	110	THR	CA-C	-5.57	1.46	1.52
1	kt	12	HIS	ND1-CE1	5.57	1.38	1.32
1	kC	182	LYS	C-N	-5.57	1.26	1.33
1	l4	171	THR	CA-C	-5.57	1.44	1.52
1	lh	120	HIS	CG-CD2	5.57	1.42	1.35
1	2a	64	ALA	N-CA	-5.57	1.39	1.46
1	2g	87	HIS	ND1-CE1	5.57	1.38	1.32
1	2v	178	SER	CA-C	-5.57	1.45	1.52
1	2L	149	SER	CA-CB	5.57	1.62	1.53
1	2S	98	GLU	C-N	5.57	1.40	1.33
1	3e	50	GLN	CA-CB	5.57	1.62	1.53
1	3l	172	LEU	CA-CB	-5.57	1.44	1.53
1	3J	113	GLU	CA-C	5.57	1.59	1.52
1	3N	117	TRP	CA-C	5.57	1.59	1.52
1	3O	206	GLY	C-O	5.57	1.31	1.24
1	45	173	ARG	CA-CB	5.57	1.62	1.53
1	4m	125	PRO	CA-C	-5.57	1.46	1.53
1	4w	220	GLY	C-N	5.57	1.40	1.33
1	4z	117	TRP	C-N	5.57	1.42	1.33
1	4C	96	MET	CA-C	-5.57	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4D	168	PHE	N-CA	-5.57	1.39	1.46
1	4M	84	HIS	N-CA	5.57	1.52	1.45
1	57	58	THR	C-N	5.57	1.40	1.33
1	58	190	LEU	C-N	5.57	1.40	1.33
1	5a	91	ILE	CA-CB	5.57	1.62	1.54
1	5l	150	ILE	CA-C	5.57	1.59	1.52
1	5n	14	ALA	CA-CB	-5.57	1.44	1.53
1	5L	34	PRO	C-N	5.57	1.41	1.33
1	60	40	PHE	CA-C	5.57	1.59	1.52
1	6t	98	GLU	C-N	5.57	1.40	1.33
1	6G	120	HIS	N-CA	-5.57	1.39	1.46
1	6L	125	PRO	CA-CB	5.57	1.59	1.53
1	6T	87	HIS	ND1-CE1	5.57	1.38	1.32
1	7m	174	ALA	C-N	5.57	1.40	1.33
1	7r	25	LYS	N-CA	-5.57	1.39	1.46
1	7H	58	THR	C-N	-5.57	1.26	1.33
1	7X	193	ASN	N-CA	5.57	1.52	1.46
1	8c	170	LYS	CA-CB	5.57	1.62	1.53
1	8y	67	GLN	CA-C	-5.57	1.45	1.52
1	8C	192	GLN	CA-C	5.57	1.59	1.52
1	8O	184	TRP	CD2-CE2	5.57	1.50	1.41
1	9d	117	TRP	N-CA	-5.57	1.39	1.46
1	9n	120	HIS	C-O	-5.57	1.16	1.23
1	9T	205	LEU	CA-C	5.57	1.59	1.52
1	9X	162	ARG	C-N	5.57	1.41	1.33
1	aq	113	GLU	C-N	5.57	1.41	1.33
1	aH	158	LYS	CA-C	-5.57	1.45	1.52
1	aI	36	VAL	CA-CB	5.57	1.61	1.54
1	15	87	HIS	CG-ND1	5.57	1.44	1.38
1	bb	194	ALA	CA-CB	5.57	1.62	1.53
1	bu	169	TYR	C-N	5.57	1.41	1.33
1	bv	73	ILE	N-CA	-5.57	1.39	1.46
1	ce	157	PRO	N-CA	-5.57	1.40	1.47
1	cx	99	PRO	CA-C	5.57	1.59	1.52
1	cJ	25	LYS	C-N	5.57	1.40	1.33
1	cK	154	ARG	CA-CB	5.57	1.62	1.53
1	d7	103	ASP	C-N	-5.57	1.26	1.33
1	dm	54	THR	C-N	5.57	1.41	1.33
1	du	177	ALA	C-N	-5.57	1.26	1.33
1	dx	215	MET	N-CA	-5.57	1.39	1.46
1	dC	137	GLY	N-CA	5.57	1.52	1.45
1	dH	34	PRO	N-CA	-5.57	1.39	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ek	152	ASP	N-CA	5.57	1.53	1.46
1	em	10	MET	CA-C	5.57	1.60	1.52
1	em	105	ALA	C-N	5.57	1.40	1.33
1	es	117	TRP	CA-CB	5.57	1.61	1.53
1	ew	125	PRO	CA-C	5.57	1.60	1.52
1	eU	117	TRP	NE1-CE2	-5.57	1.31	1.37
1	eX	9	GLN	CA-C	5.57	1.59	1.52
1	eZ	223	GLY	N-CA	5.57	1.52	1.44
1	1u	126	VAL	CA-C	5.57	1.59	1.52
1	1w	142	VAL	N-CA	5.57	1.53	1.46
1	1x	92	GLU	CA-C	5.57	1.59	1.53
1	fx	164	TYR	CA-CB	5.57	1.62	1.53
1	0	37	ILE	CB-CG1	5.57	1.64	1.53
1	k	172	LEU	N-CA	5.57	1.53	1.46
1	q	91	ILE	C-N	5.57	1.40	1.33
1	v	121	ASN	C-O	5.57	1.30	1.24
1	ga	73	ILE	CA-C	5.57	1.59	1.52
1	go	74	ASN	CA-C	5.57	1.60	1.52
1	h2	104	ILE	CA-CB	-5.57	1.47	1.54
1	hi	29	GLU	CA-CB	5.57	1.62	1.53
1	ho	19	THR	CA-C	5.57	1.59	1.52
1	hI	27	VAL	N-CA	-5.57	1.39	1.46
1	hT	120	HIS	CA-CB	5.57	1.62	1.53
1	ii	87	HIS	CE1-NE2	5.57	1.38	1.32
1	iC	9	GLN	CA-CB	5.57	1.62	1.53
1	iY	57	ASN	CA-C	-5.57	1.45	1.52
1	jv	56	LEU	CA-CB	5.57	1.62	1.53
1	1W	119	THR	N-CA	5.57	1.52	1.46
1	jY	32	PHE	CA-C	5.57	1.60	1.53
1	km	34	PRO	N-CA	-5.57	1.40	1.47
1	kx	19	THR	CA-CB	5.57	1.62	1.53
1	35	60	GLY	CA-C	5.57	1.59	1.51
1	3p	162	ARG	NE-CZ	-5.57	1.26	1.33
1	51	84	HIS	CB-CG	5.57	1.57	1.50
1	58	64	ALA	CA-C	5.57	1.59	1.52
1	5F	26	VAL	C-N	5.57	1.41	1.33
1	5G	159	GLU	C-O	-5.57	1.17	1.24
1	70	177	ALA	C-N	5.57	1.40	1.33
1	7d	87	HIS	ND1-CE1	5.57	1.38	1.32
1	7l	167	ARG	CA-CB	5.57	1.62	1.53
1	7p	32	PHE	CG-CD2	5.57	1.50	1.38
1	7q	17	PRO	C-N	5.57	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9G	34	PRO	N-CD	5.57	1.55	1.47
1	ae	231	LEU	C-OXT	5.57	1.34	1.23
1	be	91	ILE	CA-CB	5.57	1.60	1.54
1	bk	2	ILE	CA-CB	5.57	1.60	1.54
1	bR	33	SER	N-CA	-5.57	1.40	1.46
1	bT	138	LEU	CA-CB	5.57	1.61	1.53
1	c1	92	GLU	CA-CB	5.57	1.59	1.54
1	cz	141	ILE	N-CA	-5.57	1.39	1.46
1	1f	103	ASP	CA-CB	5.57	1.62	1.53
1	cW	167	ARG	CZ-NH2	-5.57	1.26	1.33
1	d3	107	THR	N-CA	-5.57	1.39	1.46
1	dk	218	CYS	C-N	5.57	1.41	1.33
1	do	148	THR	N-CA	5.57	1.52	1.45
1	dy	102	SER	CA-C	-5.57	1.45	1.52
1	e6	177	ALA	C-N	5.57	1.40	1.33
1	1p	115	ILE	N-CA	-5.57	1.40	1.46
1	fl	178	SER	CA-C	5.57	1.60	1.52
1	fD	120	HIS	CE1-NE2	-5.57	1.26	1.32
1	fD	132	ARG	N-CA	-5.57	1.39	1.46
1	fW	141	ILE	CA-C	5.57	1.59	1.52
1	j	182	LYS	N-CA	-5.57	1.39	1.46
1	o	227	LYS	N-CA	-5.57	1.39	1.46
1	x	141	ILE	CA-C	5.57	1.60	1.52
1	z	24	VAL	C-O	-5.57	1.17	1.24
1	J	164	TYR	N-CA	-5.57	1.39	1.46
1	gb	16	SER	C-N	5.57	1.41	1.33
1	ge	223	GLY	CA-C	-5.57	1.44	1.51
1	gu	104	ILE	C-N	5.57	1.41	1.33
1	hl	22	ALA	CA-C	5.57	1.60	1.52
1	hB	178	SER	N-CA	-5.57	1.39	1.46
1	hO	19	THR	CA-C	5.57	1.59	1.52
1	i0	149	SER	CA-C	-5.57	1.45	1.53
1	ib	205	LEU	C-N	5.57	1.41	1.33
1	iy	185	MET	CA-CB	5.57	1.61	1.53
1	iC	62	HIS	CE1-NE2	5.57	1.38	1.32
1	iN	205	LEU	CA-CB	5.57	1.62	1.53
1	jn	211	LEU	N-CA	-5.57	1.39	1.46
1	1W	171	THR	CA-C	-5.57	1.45	1.52
1	jO	30	LYS	CA-CB	-5.57	1.44	1.53
1	jP	191	VAL	N-CA	5.57	1.53	1.46
1	jY	138	LEU	CA-C	5.57	1.59	1.52
1	k7	220	GLY	C-N	5.57	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kj	102	SER	N-CA	-5.57	1.39	1.46
1	kA	183	ASN	N-CA	-5.57	1.39	1.46
1	kI	6	LEU	CA-CB	5.57	1.61	1.54
1	kT	75	GLU	N-CA	-5.57	1.39	1.46
1	kV	107	THR	CA-C	5.57	1.60	1.52
1	l0	104	ILE	CA-CB	5.57	1.61	1.54
1	ll	226	HIS	ND1-CE1	5.57	1.38	1.32
1	2i	189	LEU	C-N	5.57	1.41	1.33
1	2j	142	VAL	C-O	5.57	1.30	1.24
1	2q	178	SER	CA-C	5.57	1.59	1.52
1	2E	10	MET	CA-C	5.57	1.60	1.53
1	2T	163	ASP	C-N	5.57	1.40	1.33
1	30	28	GLU	CA-C	-5.57	1.45	1.52
1	3u	169	TYR	CA-C	5.57	1.60	1.52
1	3B	195	ASN	C-N	-5.57	1.26	1.34
1	3O	24	VAL	C-N	5.57	1.41	1.33
1	3Y	177	ALA	C-O	5.57	1.31	1.23
1	46	166	ASP	CA-CB	-5.57	1.44	1.53
1	4k	24	VAL	C-O	-5.57	1.17	1.24
1	4p	92	GLU	C-N	5.57	1.40	1.33
1	4E	133	TRP	CD2-CE3	5.57	1.49	1.40
1	4H	45	GLU	C-N	5.57	1.41	1.33
1	4K	213	GLU	CA-C	5.57	1.60	1.52
1	4R	80	TRP	CA-CB	5.57	1.62	1.53
1	50	111	LEU	N-CA	5.57	1.53	1.46
1	5h	114	GLN	CA-CB	5.57	1.62	1.53
1	5j	191	VAL	N-CA	5.57	1.53	1.46
1	5m	179	GLN	N-CA	-5.57	1.39	1.46
1	5t	49	PRO	N-CD	-5.57	1.40	1.47
1	5t	113	GLU	CA-CB	5.57	1.61	1.53
1	5C	104	ILE	N-CA	-5.57	1.39	1.46
1	6f	11	VAL	CA-CB	-5.57	1.47	1.54
1	6j	10	MET	CG-SD	5.57	1.94	1.80
1	6o	89	GLY	N-CA	5.57	1.52	1.44
1	6x	163	ASP	CA-CB	5.57	1.62	1.53
1	6y	131	LYS	N-CA	5.57	1.53	1.46
1	6S	39	MET	N-CA	-5.57	1.39	1.46
1	6W	134	ILE	CA-CB	-5.57	1.47	1.54
1	6X	228	ALA	CA-CB	5.57	1.62	1.53
1	79	229	ARG	CA-CB	5.57	1.62	1.53
1	7g	142	VAL	CA-CB	-5.57	1.47	1.54
1	7k	10	MET	CA-C	-5.57	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7s	130	TYR	CA-CB	5.57	1.61	1.53
1	7s	163	ASP	CA-CB	5.57	1.62	1.53
1	7E	5	ASN	CA-CB	5.57	1.62	1.53
1	7J	47	ALA	C-N	5.57	1.41	1.33
1	7L	172	LEU	CA-CB	5.57	1.62	1.53
1	7V	70	LYS	CA-C	5.57	1.60	1.52
1	7X	105	ALA	C-N	5.57	1.41	1.33
1	88	182	LYS	C-N	5.57	1.41	1.33
1	8o	230	VAL	N-CA	-5.57	1.39	1.46
1	9y	28	GLU	N-CA	-5.57	1.39	1.46
1	9y	150	ILE	CA-CB	-5.57	1.47	1.54
1	9O	190	LEU	CA-C	5.57	1.60	1.52
1	a9	76	GLU	CA-CB	5.57	1.61	1.53
1	a9	195	ASN	CA-C	5.57	1.58	1.53
1	ab	124	ILE	N-CA	-5.57	1.42	1.46
1	b3	12	HIS	CG-ND1	5.57	1.44	1.38
1	19	87	HIS	CE1-NE2	-5.57	1.26	1.32
1	bC	152	ASP	CA-CB	5.57	1.63	1.53
1	cc	56	LEU	C-N	-5.57	1.26	1.33
1	cd	174	ALA	CA-C	-5.57	1.45	1.52
1	cj	226	HIS	C-N	5.57	1.41	1.33
1	cm	24	VAL	C-N	5.57	1.41	1.34
1	cn	2	ILE	CA-C	-5.57	1.46	1.52
1	cx	10	MET	CA-CB	5.57	1.61	1.53
1	cy	163	ASP	CA-C	5.57	1.59	1.52
1	cR	22	ALA	C-N	5.57	1.41	1.33
1	d5	177	ALA	CA-C	5.57	1.59	1.52
1	d8	24	VAL	C-N	5.57	1.41	1.34
1	dc	20	LEU	C-N	5.57	1.40	1.33
1	dk	88	ALA	CA-C	5.57	1.59	1.53
1	dE	156	GLY	C-O	-5.57	1.16	1.24
1	dR	154	ARG	CA-C	5.57	1.59	1.52
1	ef	49	PRO	CA-C	5.57	1.60	1.52
1	ev	87	HIS	CE1-NE2	5.57	1.38	1.32
1	eD	18	ARG	C-N	5.57	1.41	1.33
1	eP	20	LEU	CB-CG	5.57	1.64	1.53
1	eS	159	GLU	C-N	5.57	1.40	1.33
1	f5	169	TYR	N-CA	-5.57	1.39	1.46
1	fd	16	SER	CA-CB	5.57	1.61	1.53
1	fr	106	GLY	C-N	5.57	1.41	1.33
1	fD	126	VAL	C-N	5.57	1.41	1.33
1	fN	191	VAL	N-CA	5.57	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fN	226	HIS	ND1-CE1	5.57	1.38	1.32
1	0	43	LEU	CA-C	-5.57	1.45	1.52
1	F	32	PHE	CA-CB	5.57	1.62	1.53
1	K	124	ILE	CA-C	5.57	1.57	1.53
1	M	212	GLU	C-O	-5.57	1.17	1.24
1	X	91	ILE	CA-CB	5.57	1.62	1.54
1	g8	128	GLU	CA-C	5.57	1.60	1.52
1	gS	154	ARG	CA-C	-5.57	1.45	1.52
1	hb	107	THR	N-CA	-5.57	1.39	1.46
1	hE	149	SER	C-N	5.57	1.40	1.34
1	hJ	90	PRO	N-CD	5.57	1.55	1.47
1	hT	23	TRP	CA-C	5.57	1.60	1.52
1	j1	80	TRP	NE1-CE2	-5.57	1.31	1.37
1	jq	37	ILE	CA-CB	5.57	1.61	1.54
1	jt	147	PRO	CA-C	-5.57	1.44	1.52
1	jA	5	ASN	CA-C	5.57	1.59	1.52
1	jY	72	THR	N-CA	5.57	1.53	1.46
1	k0	175	GLU	C-N	5.57	1.41	1.33
1	kw	148	THR	N-CA	5.57	1.53	1.46
1	ky	144	MET	N-CA	5.57	1.53	1.46
1	kG	82	ARG	CA-C	-5.57	1.45	1.52
1	kN	180	GLU	CA-CB	5.57	1.61	1.53
1	ld	163	ASP	N-CA	5.57	1.53	1.46
1	27	135	ILE	CA-C	5.57	1.59	1.52
1	lq	194	ALA	CA-C	5.57	1.60	1.52
1	2q	140	LYS	CA-C	5.57	1.60	1.52
1	2A	102	SER	CA-CB	5.57	1.61	1.53
1	3k	34	PRO	C-O	5.57	1.31	1.24
1	3n	80	TRP	CA-CB	5.57	1.61	1.53
1	3s	84	HIS	CB-CG	5.57	1.57	1.50
1	3s	102	SER	CA-C	5.57	1.60	1.52
1	3H	154	ARG	CA-C	-5.57	1.45	1.52
1	4e	149	SER	CA-CB	5.57	1.61	1.53
1	4j	93	PRO	N-CD	-5.57	1.40	1.47
1	4k	84	HIS	C-N	-5.57	1.29	1.33
1	5e	14	ALA	C-N	5.57	1.40	1.33
1	5i	146	SER	CA-CB	5.57	1.60	1.53
1	5m	50	GLN	N-CA	5.57	1.53	1.46
1	5v	23	TRP	CA-CB	5.57	1.62	1.53
1	60	11	VAL	CA-CB	-5.57	1.47	1.54
1	61	229	ARG	C-O	-5.57	1.17	1.23
1	6o	37	ILE	CA-CB	-5.57	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	75	182	LYS	CA-CB	5.57	1.61	1.53
1	7c	84	HIS	CA-C	5.57	1.58	1.52
1	7A	52	LEU	CA-C	-5.57	1.45	1.52
1	8d	206	GLY	CA-C	5.57	1.59	1.51
1	8m	124	ILE	CA-C	-5.57	1.48	1.53
1	93	56	LEU	N-CA	-5.57	1.39	1.46
1	9A	114	GLN	CA-C	5.57	1.60	1.52
1	an	228	ALA	CA-C	5.57	1.59	1.52
1	aB	109	SER	CA-CB	5.57	1.65	1.53
1	aX	188	THR	CA-C	-5.57	1.45	1.52
1	bo	200	THR	CB-OG1	-5.57	1.34	1.43
1	1f	124	ILE	CA-CB	5.57	1.59	1.53
1	cH	118	MET	C-N	5.57	1.41	1.33
1	cM	95	GLN	C-N	5.57	1.42	1.33
1	d2	80	TRP	N-CA	5.57	1.53	1.46
1	dc	162	ARG	CZ-NH2	-5.57	1.26	1.33
1	dr	34	PRO	CA-CB	5.57	1.61	1.53
1	dF	2	ILE	CA-C	5.57	1.59	1.52
1	e4	112	GLN	CA-CB	5.57	1.61	1.53
1	e7	75	GLU	C-O	-5.57	1.17	1.24
1	1p	41	SER	N-CA	-5.57	1.39	1.46
1	ef	173	ARG	N-CA	-5.57	1.39	1.46
1	1r	166	ASP	CA-C	5.57	1.59	1.52
1	ew	113	GLU	CA-CB	5.57	1.61	1.53
1	1t	194	ALA	CA-CB	5.57	1.61	1.53
1	eS	93	PRO	C-O	-5.57	1.16	1.23
1	fl	231	LEU	CA-C	5.57	1.64	1.52
1	fD	116	GLY	N-CA	5.57	1.52	1.45
1	fT	60	GLY	CA-C	-5.57	1.44	1.51
1	L	162	ARG	N-CA	5.57	1.53	1.46
1	hd	4	GLN	CA-CB	5.56	1.62	1.53
1	1K	129	ILE	N-CA	5.56	1.53	1.46
1	ia	22	ALA	N-CA	5.56	1.53	1.46
1	iJ	93	PRO	CA-C	5.56	1.59	1.52
1	j1	68	MET	N-CA	5.56	1.53	1.46
1	ji	179	GLN	CA-CB	5.56	1.61	1.53
1	jH	62	HIS	CE1-NE2	5.56	1.38	1.32
1	ku	154	ARG	CZ-NH2	-5.56	1.26	1.33
1	kR	109	SER	N-CA	5.56	1.52	1.46
1	lh	21	ASN	CA-CB	5.56	1.61	1.53
1	3v	79	GLU	CA-CB	5.56	1.61	1.53
1	4e	211	LEU	CA-CB	5.56	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4D	168	PHE	CA-CB	5.56	1.61	1.53
1	5G	47	ALA	CA-C	5.56	1.59	1.52
1	5H	90	PRO	N-CA	5.56	1.53	1.47
1	5H	145	TYR	CA-CB	5.56	1.62	1.53
1	78	85	PRO	CA-CB	5.56	1.61	1.53
1	7z	160	PRO	CA-CB	5.56	1.61	1.53
1	7U	55	MET	CA-C	5.56	1.59	1.52
1	7U	105	ALA	N-CA	-5.56	1.38	1.46
1	8t	214	MET	CA-CB	5.56	1.62	1.53
1	9F	151	LEU	CA-CB	5.56	1.62	1.53
1	9R	96	MET	CA-C	-5.56	1.46	1.52
1	ae	179	GLN	CA-C	5.56	1.60	1.52
1	aT	9	GLN	CA-CB	5.56	1.62	1.53
1	bP	42	ALA	CA-C	5.56	1.60	1.52
1	bR	9	GLN	C-N	5.56	1.41	1.33
1	bR	54	THR	CA-CB	-5.56	1.44	1.53
1	bW	100	ARG	C-N	5.56	1.40	1.33
1	1h	70	LYS	CA-C	-5.56	1.45	1.52
1	dH	177	ALA	C-N	5.56	1.41	1.33
1	dI	2	ILE	N-CA	5.56	1.52	1.46
1	f2	88	ALA	N-CA	-5.56	1.39	1.46
1	fr	49	PRO	N-CA	5.56	1.55	1.47
1	fE	17	PRO	CA-CB	5.56	1.62	1.53
1	d	171	THR	C-O	-5.56	1.17	1.24
1	gd	80	TRP	N-CA	5.56	1.53	1.46
1	gd	187	GLU	N-CA	5.56	1.53	1.46
1	gf	172	LEU	CA-C	5.56	1.60	1.52
1	gq	218	CYS	CA-CB	5.56	1.61	1.53
1	gS	99	PRO	C-O	5.56	1.29	1.23
1	h1	52	LEU	CA-CB	5.56	1.61	1.53
1	h4	22	ALA	CA-C	-5.56	1.45	1.52
1	hl	27	VAL	N-CA	-5.56	1.40	1.46
1	ho	203	LYS	N-CA	-5.56	1.39	1.46
1	hz	99	PRO	N-CD	5.56	1.55	1.47
1	1K	11	VAL	C-N	5.56	1.41	1.33
1	1K	84	HIS	CD2-NE2	5.56	1.44	1.37
1	1K	175	GLU	N-CA	-5.56	1.39	1.46
1	hI	221	VAL	CA-C	-5.56	1.46	1.52
1	hJ	101	GLY	N-CA	5.56	1.52	1.45
1	hU	134	ILE	CA-CB	-5.56	1.47	1.54
1	i8	115	ILE	CA-C	5.56	1.59	1.52
1	ib	29	GLU	CA-CB	-5.56	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1O	37	ILE	CA-CB	5.56	1.56	1.54
1	im	203	LYS	CA-CB	5.56	1.61	1.53
1	1P	59	VAL	N-CA	5.56	1.53	1.46
1	j7	225	GLY	C-N	5.56	1.40	1.33
1	jv	86	VAL	C-N	5.56	1.40	1.33
1	jC	120	HIS	ND1-CE1	5.56	1.38	1.32
1	jF	58	THR	C-N	5.56	1.41	1.33
1	jI	146	SER	N-CA	5.56	1.51	1.46
1	jP	68	MET	CA-C	-5.56	1.45	1.52
1	k0	125	PRO	N-CD	-5.56	1.40	1.47
1	k0	130	TYR	C-N	5.56	1.41	1.34
1	k8	23	TRP	CA-CB	5.56	1.61	1.53
1	kL	71	GLU	C-N	5.56	1.41	1.33
1	kR	4	GLN	C-N	5.56	1.40	1.33
1	kX	100	ARG	NE-CZ	5.56	1.39	1.33
1	27	226	HIS	CB-CG	5.56	1.57	1.50
1	lL	84	HIS	CA-C	-5.56	1.46	1.52
1	2p	61	GLY	N-CA	5.56	1.52	1.45
1	2N	66	MET	N-CA	-5.56	1.39	1.46
1	2T	103	ASP	C-N	5.56	1.40	1.33
1	30	7	GLN	CA-C	-5.56	1.46	1.52
1	33	143	ARG	CA-CB	5.56	1.62	1.53
1	3G	23	TRP	C-O	-5.56	1.17	1.24
1	4l	62	HIS	ND1-CE1	-5.56	1.26	1.32
1	4l	132	ARG	NE-CZ	-5.56	1.26	1.33
1	4z	100	ARG	CA-CB	5.56	1.62	1.53
1	4E	93	PRO	CA-C	5.56	1.59	1.52
1	4F	176	GLN	C-N	5.56	1.41	1.33
1	4I	12	HIS	C-N	5.56	1.41	1.33
1	59	133	TRP	N-CA	-5.56	1.39	1.46
1	59	149	SER	CA-C	5.56	1.59	1.52
1	5t	179	GLN	CA-C	5.56	1.60	1.52
1	5M	87	HIS	CA-C	5.56	1.59	1.52
1	6h	186	THR	CA-CB	5.56	1.61	1.53
1	6h	228	ALA	CA-CB	5.56	1.62	1.53
1	6m	153	ILE	CA-C	-5.56	1.45	1.52
1	6J	21	ASN	N-CA	-5.56	1.39	1.46
1	6Q	176	GLN	CA-C	5.56	1.60	1.52
1	6Y	40	PHE	C-N	5.56	1.40	1.33
1	7g	126	VAL	C-N	5.56	1.41	1.33
1	7i	114	GLN	CA-C	-5.56	1.45	1.52
1	7m	97	ARG	CA-C	-5.56	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7p	15	ILE	CA-C	5.56	1.59	1.52
1	7x	169	TYR	C-O	-5.56	1.17	1.24
1	7J	56	LEU	C-O	-5.56	1.16	1.24
1	86	159	GLU	CA-CB	5.56	1.63	1.53
1	8v	15	ILE	CA-C	5.56	1.60	1.52
1	8F	53	ASN	CA-C	5.56	1.60	1.52
1	8M	192	GLN	CA-CB	5.56	1.62	1.53
1	96	152	ASP	CA-CB	5.56	1.61	1.53
1	9o	161	PHE	CA-C	5.56	1.60	1.52
1	9E	227	LYS	CA-CB	5.56	1.62	1.53
1	9S	128	GLU	CA-C	-5.56	1.45	1.52
1	a3	133	TRP	C-N	5.56	1.40	1.33
1	a5	79	GLU	C-O	-5.56	1.17	1.24
1	11	21	ASN	C-O	5.56	1.30	1.24
1	ak	133	TRP	C-N	5.56	1.40	1.33
1	bc	110	THR	CA-C	-5.56	1.45	1.52
1	bg	141	ILE	CA-CB	-5.56	1.47	1.54
1	bK	37	ILE	CA-C	5.56	1.57	1.52
1	bL	64	ALA	CA-CB	5.56	1.61	1.53
1	1d	96	MET	C-N	5.56	1.41	1.33
1	cz	32	PHE	CA-CB	5.56	1.61	1.53
1	cA	202	LEU	N-CA	-5.56	1.39	1.46
1	d8	71	GLU	CA-C	5.56	1.60	1.52
1	dr	130	TYR	CG-CD1	5.56	1.51	1.39
1	dw	113	GLU	N-CA	-5.56	1.39	1.46
1	dL	18	ARG	C-N	5.56	1.41	1.33
1	1o	188	THR	CA-C	-5.56	1.45	1.52
1	el	72	THR	C-N	5.56	1.41	1.33
1	em	212	GLU	C-N	5.56	1.41	1.33
1	ew	64	ALA	CA-C	5.56	1.59	1.52
1	f8	218	CYS	CA-CB	5.56	1.61	1.53
1	ff	38	PRO	N-CD	-5.56	1.40	1.47
1	fs	85	PRO	C-N	5.56	1.40	1.33
1	fU	192	GLN	N-CA	-5.56	1.39	1.46
1	1A	162	ARG	C-N	5.56	1.41	1.33
1	g1	18	ARG	CZ-NH2	-5.56	1.26	1.33
1	o	197	ASP	N-CA	5.56	1.53	1.46
1	s	203	LYS	N-CA	-5.56	1.39	1.46
1	w	129	ILE	C-N	5.56	1.41	1.33
1	M	229	ARG	N-CA	5.56	1.54	1.46
1	gn	104	ILE	CA-C	-5.56	1.46	1.52
1	gB	15	ILE	CA-C	5.56	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gQ	166	ASP	CA-CB	5.56	1.62	1.53
1	1H	71	GLU	C-N	5.56	1.41	1.33
1	ic	57	ASN	N-CA	5.56	1.53	1.46
1	jF	39	MET	CA-C	5.56	1.60	1.52
1	jH	68	MET	C-N	5.56	1.41	1.33
1	jP	53	ASN	CA-CB	5.56	1.63	1.53
1	jX	198	CYS	C-N	-5.56	1.26	1.33
1	l1	65	ALA	N-CA	5.56	1.53	1.46
1	ll	138	LEU	CA-CB	5.56	1.62	1.53
1	lF	221	VAL	C-N	5.56	1.40	1.33
1	2k	73	ILE	N-CA	5.56	1.53	1.46
1	2N	120	HIS	CG-CD2	5.56	1.42	1.35
1	2U	93	PRO	N-CD	5.56	1.55	1.47
1	3b	91	ILE	CA-CB	-5.56	1.47	1.54
1	4k	191	VAL	CA-CB	5.56	1.60	1.54
1	53	89	GLY	N-CA	5.56	1.52	1.44
1	5q	35	GLU	CA-CB	5.56	1.63	1.53
1	5F	36	VAL	C-N	5.56	1.42	1.33
1	5S	139	ASN	CA-C	5.56	1.60	1.52
1	64	25	LYS	N-CA	5.56	1.53	1.46
1	6p	98	GLU	C-N	5.56	1.40	1.33
1	7a	51	ASP	N-CA	-5.56	1.39	1.46
1	7I	175	GLU	C-N	5.56	1.40	1.33
1	7O	26	VAL	N-CA	5.56	1.53	1.46
1	8K	38	PRO	CA-CB	5.56	1.61	1.53
1	8Z	109	SER	CA-C	5.56	1.59	1.52
1	94	188	THR	C-N	-5.56	1.26	1.33
1	9u	161	PHE	CA-CB	5.56	1.61	1.53
1	ae	5	ASN	CA-CB	5.56	1.62	1.53
1	12	162	ARG	N-CA	-5.56	1.39	1.46
1	aT	191	VAL	C-N	5.56	1.41	1.33
1	bz	1	PRO	N-CA	5.56	1.55	1.47
1	bE	228	ALA	C-N	5.56	1.41	1.33
1	bP	80	TRP	C-N	5.56	1.41	1.33
1	c5	74	ASN	N-CA	5.56	1.53	1.46
1	c5	120	HIS	N-CA	5.56	1.53	1.45
1	c6	179	GLN	CA-CB	5.56	1.62	1.53
1	cE	190	LEU	CA-CB	-5.56	1.44	1.53
1	1i	89	GLY	C-N	5.56	1.41	1.33
1	d9	66	MET	CA-C	-5.56	1.45	1.52
1	1j	28	GLU	CA-C	-5.56	1.45	1.52
1	dp	111	LEU	CA-C	5.56	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eB	162	ARG	CZ-NH2	-5.56	1.26	1.33
1	fl	148	THR	N-CA	5.56	1.52	1.46
1	fl	168	PHE	CA-CB	5.56	1.61	1.53
1	fo	184	TRP	NE1-CE2	5.56	1.43	1.37
1	x	140	LYS	C-N	5.56	1.40	1.33
1	X	161	PHE	N-CA	-5.56	1.39	1.46
1	gc	12	HIS	CD2-NE2	-5.56	1.31	1.37
1	gp	140	LYS	CA-CB	5.56	1.62	1.53
1	gB	200	THR	C-O	-5.56	1.17	1.24
1	gR	227	LYS	CA-CB	5.56	1.62	1.53
1	gS	180	GLU	C-N	5.56	1.40	1.33
1	gU	87	HIS	CA-C	-5.56	1.46	1.52
1	gW	169	TYR	CA-C	5.56	1.60	1.52
1	h1	178	SER	N-CA	-5.56	1.38	1.45
1	hk	83	LEU	CA-CB	5.56	1.62	1.53
1	hU	217	ALA	C-O	-5.56	1.16	1.23
1	hX	192	GLN	C-N	5.56	1.40	1.33
1	1R	3	VAL	CA-C	-5.56	1.45	1.52
1	j5	47	ALA	CA-C	-5.56	1.45	1.52
1	jf	97	ARG	CD-NE	5.56	1.54	1.46
1	jh	5	ASN	CA-C	5.56	1.59	1.52
1	jV	113	GLU	N-CA	-5.56	1.39	1.46
1	kv	29	GLU	CA-CB	5.56	1.62	1.53
1	23	113	GLU	CA-CB	5.56	1.61	1.53
1	kW	197	ASP	CA-C	-5.56	1.45	1.52
1	ld	103	ASP	N-CA	-5.56	1.39	1.46
1	lg	142	VAL	C-N	5.56	1.41	1.33
1	lz	24	VAL	CA-C	5.56	1.59	1.52
1	lJ	36	VAL	CA-CB	-5.56	1.47	1.54
1	2c	45	GLU	N-CA	5.56	1.52	1.46
1	2f	155	GLN	CA-C	5.56	1.60	1.52
1	2y	55	MET	CA-C	-5.56	1.45	1.52
1	2L	222	GLY	CA-C	-5.56	1.46	1.52
1	2M	148	THR	CB-OG1	-5.56	1.34	1.43
1	38	117	TRP	CA-C	5.56	1.60	1.52
1	3e	29	GLU	N-CA	5.56	1.52	1.46
1	3w	152	ASP	C-N	5.56	1.40	1.33
1	3x	167	ARG	CD-NE	5.56	1.54	1.46
1	3B	169	TYR	CA-CB	5.56	1.61	1.53
1	4g	124	ILE	N-CA	-5.56	1.41	1.46
1	4J	99	PRO	CA-CB	5.56	1.61	1.53
1	5n	162	ARG	CA-CB	5.56	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5C	147	PRO	N-CA	-5.56	1.43	1.47
1	5N	100	ARG	CD-NE	5.56	1.54	1.46
1	5P	24	VAL	C-O	-5.56	1.16	1.24
1	5U	26	VAL	CA-CB	-5.56	1.47	1.54
1	6m	126	VAL	C-N	5.56	1.40	1.33
1	6u	113	GLU	CA-CB	5.56	1.62	1.53
1	6u	198	CYS	N-CA	-5.56	1.39	1.46
1	6W	209	ALA	C-N	-5.56	1.25	1.33
1	7e	130	TYR	C-N	5.56	1.41	1.33
1	8e	20	LEU	CA-CB	5.56	1.62	1.53
1	94	117	TRP	N-CA	5.56	1.53	1.46
1	9i	120	HIS	CD2-NE2	5.56	1.44	1.37
1	a6	121	ASN	CA-C	5.56	1.58	1.52
1	aa	181	VAL	CA-C	-5.56	1.45	1.52
1	11	169	TYR	C-O	5.56	1.31	1.24
1	aH	129	ILE	CA-C	5.56	1.59	1.52
1	aH	154	ARG	C-O	-5.56	1.17	1.23
1	aS	114	GLN	N-CA	-5.56	1.39	1.46
1	aV	12	HIS	CE1-NE2	-5.56	1.26	1.32
1	bo	117	TRP	N-CA	5.56	1.53	1.46
1	bt	77	ALA	N-CA	-5.56	1.39	1.46
1	bw	12	HIS	CB-CG	5.56	1.57	1.50
1	bD	225	GLY	CA-C	5.56	1.59	1.51
1	bN	47	ALA	N-CA	5.56	1.52	1.46
1	bS	100	ARG	CD-NE	5.56	1.54	1.46
1	ch	13	GLN	CA-C	-5.56	1.45	1.52
1	cH	20	LEU	C-N	5.56	1.41	1.34
1	d8	21	ASN	N-CA	5.56	1.53	1.46
1	dd	190	LEU	C-N	5.56	1.40	1.33
1	1j	31	ALA	N-CA	-5.56	1.38	1.46
1	dg	214	MET	CA-CB	5.56	1.62	1.53
1	dY	102	SER	CA-CB	5.56	1.62	1.53
1	e0	192	GLN	CA-CB	5.56	1.62	1.53
1	ek	110	THR	CA-C	-5.56	1.45	1.52
1	ek	173	ARG	C-O	-5.56	1.17	1.24
1	1q	79	GLU	CA-CB	5.56	1.61	1.53
1	eU	138	LEU	CA-CB	5.56	1.62	1.53
1	fd	2	ILE	C-N	5.56	1.42	1.33
1	fs	213	GLU	C-N	5.56	1.41	1.33
1	fF	211	LEU	N-CA	5.56	1.53	1.46
1	g6	158	LYS	N-CA	-5.56	1.38	1.46
1	k	162	ARG	CD-NE	5.56	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	5	ASN	CA-CB	5.56	1.61	1.53
1	5	82	ARG	NE-CZ	5.56	1.39	1.33
1	g9	147	PRO	CA-C	-5.56	1.47	1.52
1	gd	167	ARG	CD-NE	5.56	1.54	1.46
1	1E	141	ILE	CA-CB	5.56	1.61	1.54
1	1G	130	TYR	CA-CB	5.56	1.61	1.53
1	1I	3	VAL	CA-CB	-5.56	1.47	1.54
1	hi	33	SER	N-CA	-5.56	1.40	1.46
1	hk	126	VAL	C-N	5.56	1.40	1.33
1	hr	135	ILE	CA-CB	-5.56	1.47	1.54
1	i2	201	ILE	C-O	-5.56	1.17	1.24
1	i5	107	THR	CA-C	-5.56	1.44	1.52
1	1P	16	SER	CA-C	-5.56	1.46	1.52
1	ix	169	TYR	CA-CB	5.56	1.61	1.53
1	iF	48	THR	N-CA	-5.56	1.39	1.46
1	iK	12	HIS	ND1-CE1	5.56	1.38	1.32
1	iY	218	CYS	N-CA	5.56	1.54	1.46
1	1V	90	PRO	N-CD	5.56	1.55	1.47
1	k1	164	TYR	C-N	5.56	1.40	1.33
1	kn	181	VAL	N-CA	5.56	1.53	1.46
1	ko	144	MET	CA-C	-5.56	1.45	1.52
1	kD	136	LEU	CA-CB	5.56	1.61	1.53
1	kE	137	GLY	C-N	5.56	1.41	1.33
1	kZ	138	LEU	CA-CB	-5.56	1.44	1.53
1	lm	192	GLN	CA-C	5.56	1.60	1.52
1	ls	96	MET	CA-CB	5.56	1.62	1.53
1	lw	178	SER	CA-C	-5.56	1.45	1.53
1	2g	141	ILE	CA-C	-5.56	1.44	1.52
1	2h	129	ILE	CA-CB	5.56	1.62	1.54
1	2p	132	ARG	C-N	5.56	1.41	1.33
1	2Y	3	VAL	N-CA	5.56	1.52	1.46
1	3N	6	LEU	CA-C	5.56	1.60	1.53
1	3P	215	MET	C-N	5.56	1.41	1.33
1	4c	195	ASN	CA-C	5.56	1.58	1.53
1	4h	212	GLU	CA-CB	5.56	1.62	1.53
1	4y	201	ILE	CA-CB	-5.56	1.47	1.54
1	5D	165	VAL	N-CA	-5.56	1.40	1.46
1	5K	117	TRP	NE1-CE2	-5.56	1.31	1.37
1	5W	23	TRP	C-N	5.56	1.40	1.33
1	5W	173	ARG	CA-CB	5.56	1.63	1.53
1	5Y	22	ALA	CA-C	5.56	1.60	1.52
1	63	191	VAL	CA-CB	-5.56	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	65	55	MET	CA-CB	5.56	1.62	1.53
1	6i	158	LYS	CA-CB	5.56	1.62	1.53
1	6i	204	ALA	CA-C	-5.56	1.45	1.52
1	6m	87	HIS	CD2-NE2	5.56	1.44	1.37
1	6p	57	ASN	N-CA	5.56	1.53	1.46
1	76	214	MET	N-CA	-5.56	1.39	1.46
1	7g	173	ARG	CA-CB	5.56	1.63	1.53
1	7u	197	ASP	C-N	5.56	1.40	1.33
1	7M	130	TYR	CA-CB	5.56	1.62	1.53
1	7P	71	GLU	CA-C	5.56	1.59	1.52
1	7R	39	MET	C-N	5.56	1.41	1.33
1	82	94	GLY	CA-C	-5.56	1.44	1.51
1	88	106	GLY	C-N	-5.56	1.26	1.33
1	8r	74	ASN	CA-CB	5.56	1.61	1.53
1	8X	84	HIS	CG-ND1	5.56	1.44	1.38
1	8Z	10	MET	CA-C	5.56	1.60	1.52
1	97	53	ASN	CA-CB	5.56	1.62	1.53
1	9e	29	GLU	CA-C	5.56	1.59	1.52
1	9e	74	ASN	CA-C	5.56	1.60	1.52
1	9Y	183	ASN	CA-CB	5.56	1.61	1.53
1	a2	106	GLY	N-CA	5.56	1.53	1.45
1	a5	213	GLU	C-O	-5.56	1.17	1.24
1	ai	97	ARG	N-CA	5.56	1.52	1.46
1	aT	87	HIS	N-CA	5.56	1.52	1.45
1	aT	182	LYS	CA-CB	5.56	1.62	1.53
1	aX	221	VAL	CA-CB	-5.56	1.46	1.54
1	aY	81	ASP	CA-C	5.56	1.59	1.52
1	bb	84	HIS	CD2-NE2	5.56	1.44	1.37
1	bk	213	GLU	CA-C	-5.56	1.45	1.52
1	bp	62	HIS	ND1-CE1	-5.56	1.26	1.32
1	bs	153	ILE	C-N	5.56	1.40	1.33
1	bt	209	ALA	CA-C	5.56	1.59	1.52
1	bQ	123	PRO	N-CA	5.56	1.53	1.47
1	cv	65	ALA	C-O	-5.56	1.17	1.24
1	cv	101	GLY	N-CA	-5.56	1.38	1.45
1	cJ	84	HIS	CG-ND1	-5.56	1.32	1.38
1	dB	99	PRO	CA-C	5.56	1.59	1.52
1	dD	5	ASN	N-CA	5.56	1.53	1.46
1	dY	136	LEU	CA-CB	5.56	1.62	1.53
1	e4	229	ARG	CD-NE	5.56	1.54	1.46
1	eb	200	THR	N-CA	-5.56	1.39	1.46
1	ez	184	TRP	C-N	5.56	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fr	5	ASN	N-CA	-5.56	1.39	1.46
1	fC	77	ALA	C-O	-5.56	1.17	1.24
1	e	82	ARG	CZ-NH1	-5.56	1.25	1.32
1	h	227	LYS	N-CA	-5.56	1.39	1.46
1	I	115	ILE	CA-CB	-5.56	1.46	1.54
1	gl	6	LEU	N-CA	-5.56	1.39	1.46
1	gl	167	ARG	CA-CB	-5.56	1.44	1.53
1	1O	162	ARG	CD-NE	5.56	1.54	1.46
1	ju	40	PHE	C-N	5.56	1.41	1.33
1	ki	180	GLU	CA-C	5.56	1.60	1.52
1	kM	121	ASN	C-O	-5.56	1.20	1.25
1	kO	132	ARG	C-N	5.56	1.41	1.33
1	lc	180	GLU	CA-C	5.56	1.60	1.52
1	lf	115	ILE	N-CA	-5.56	1.39	1.46
1	2o	145	TYR	CG-CD2	5.56	1.51	1.39
1	2Q	104	ILE	CB-CG1	5.56	1.64	1.53
1	4b	212	GLU	C-N	-5.56	1.26	1.33
1	4e	208	ALA	C-N	5.56	1.41	1.33
1	4n	83	LEU	C-N	5.56	1.38	1.33
1	4t	33	SER	CA-CB	5.56	1.61	1.53
1	4t	170	LYS	CA-C	5.56	1.60	1.52
1	4X	173	ARG	CA-CB	5.56	1.62	1.53
1	5I	137	GLY	N-CA	-5.56	1.39	1.45
1	5Y	187	GLU	N-CA	-5.56	1.39	1.46
1	6R	230	VAL	CA-C	-5.56	1.46	1.52
1	7b	92	GLU	C-N	5.56	1.38	1.33
1	7D	144	MET	CA-C	-5.56	1.45	1.52
1	7Q	214	MET	C-N	5.56	1.41	1.33
1	aD	201	ILE	N-CA	-5.56	1.39	1.46
1	aK	26	VAL	N-CA	5.56	1.53	1.46
1	bG	80	TRP	NE1-CE2	-5.56	1.31	1.37
1	bK	158	LYS	C-N	5.56	1.42	1.33
1	cN	25	LYS	CA-C	5.56	1.59	1.52
1	df	219	GLN	CA-C	-5.56	1.45	1.52
1	1l	172	LEU	N-CA	-5.56	1.39	1.46
1	dQ	220	GLY	CA-C	-5.56	1.44	1.51
1	eS	95	GLN	CA-C	-5.56	1.45	1.52
1	f7	175	GLU	CA-CB	5.56	1.63	1.53
1	fn	91	ILE	CA-C	-5.56	1.46	1.53
1	N	166	ASP	C-N	5.56	1.41	1.33
1	P	112	GLN	CA-C	5.56	1.60	1.52
1	R	204	ALA	C-N	5.56	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ge	138	LEU	C-N	5.55	1.41	1.34
1	ge	184	TRP	N-CA	5.55	1.53	1.46
1	gj	183	ASN	CA-C	5.55	1.59	1.52
1	gt	55	MET	C-N	5.55	1.41	1.34
1	gv	12	HIS	N-CA	5.55	1.52	1.46
1	gU	98	GLU	CA-C	5.55	1.58	1.52
1	h5	229	ARG	C-N	5.55	1.40	1.33
1	1L	226	HIS	CA-C	5.55	1.60	1.52
1	hW	33	SER	CA-CB	5.55	1.61	1.53
1	ic	100	ARG	CA-CB	5.55	1.61	1.53
1	ip	73	ILE	N-CA	-5.55	1.40	1.46
1	iq	62	HIS	CG-ND1	-5.55	1.32	1.38
1	ix	66	MET	CA-C	-5.55	1.45	1.52
1	ix	136	LEU	CA-C	5.55	1.59	1.52
1	1Q	156	GLY	N-CA	5.55	1.52	1.44
1	iJ	67	GLN	N-CA	-5.55	1.39	1.46
1	iT	142	VAL	CA-CB	5.55	1.61	1.54
1	iW	67	GLN	C-O	-5.55	1.17	1.24
1	j1	223	GLY	C-N	5.55	1.40	1.33
1	j4	66	MET	CA-CB	5.55	1.61	1.53
1	ju	171	THR	N-CA	-5.55	1.39	1.46
1	jv	158	LYS	CA-C	5.55	1.59	1.52
1	jx	195	ASN	CA-C	-5.55	1.46	1.53
1	jD	15	ILE	N-CA	-5.55	1.39	1.46
1	jU	70	LYS	CA-CB	5.55	1.62	1.53
1	1Z	129	ILE	C-N	5.55	1.41	1.33
1	k6	103	ASP	N-CA	-5.55	1.39	1.46
1	kD	26	VAL	CA-CB	-5.55	1.48	1.54
1	kR	138	LEU	CA-CB	5.55	1.62	1.53
1	lg	217	ALA	CA-C	-5.55	1.46	1.52
1	lo	78	ALA	N-CA	-5.55	1.39	1.46
1	lB	142	VAL	CA-C	5.55	1.59	1.52
1	lP	128	GLU	CA-C	5.55	1.59	1.52
1	2g	129	ILE	CA-C	5.55	1.59	1.52
1	2l	82	ARG	CD-NE	5.55	1.54	1.46
1	2A	39	MET	CA-CB	5.55	1.61	1.53
1	2E	115	ILE	CA-C	-5.55	1.46	1.52
1	2V	87	HIS	ND1-CE1	5.55	1.38	1.32
1	38	184	TRP	CD2-CE2	5.55	1.50	1.41
1	3b	14	ALA	C-O	-5.55	1.17	1.23
1	3M	37	ILE	CA-CB	5.55	1.57	1.54
1	47	15	ILE	CA-CB	-5.55	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4s	201	ILE	C-N	5.55	1.41	1.33
1	4H	215	MET	CA-C	5.55	1.60	1.52
1	4Y	205	LEU	N-CA	-5.55	1.39	1.46
1	57	97	ARG	CD-NE	5.55	1.54	1.46
1	5H	152	ASP	CA-C	-5.55	1.45	1.52
1	5W	109	SER	CA-CB	5.55	1.62	1.53
1	5Z	217	ALA	CA-CB	5.55	1.62	1.53
1	69	20	LEU	C-O	-5.55	1.17	1.24
1	6u	129	ILE	CA-C	5.55	1.59	1.52
1	7N	138	LEU	CA-CB	5.55	1.62	1.53
1	7W	74	ASN	C-O	-5.55	1.16	1.24
1	88	77	ALA	CA-C	5.55	1.59	1.52
1	8c	90	PRO	C-N	5.55	1.41	1.33
1	8N	37	ILE	CA-CB	5.55	1.57	1.54
1	8W	169	TYR	CZ-OH	5.55	1.49	1.38
1	90	125	PRO	CA-C	5.55	1.57	1.53
1	94	230	VAL	N-CA	5.55	1.53	1.46
1	9e	61	GLY	N-CA	5.55	1.51	1.45
1	9l	17	PRO	CA-CB	-5.55	1.45	1.53
1	9n	203	LYS	N-CA	-5.55	1.38	1.46
1	9K	33	SER	CA-CB	5.55	1.61	1.53
1	9N	105	ALA	CA-C	5.55	1.60	1.52
1	9P	222	GLY	N-CA	5.55	1.53	1.45
1	9Q	40	PHE	CA-CB	5.55	1.61	1.53
1	9T	49	PRO	N-CD	-5.55	1.40	1.47
1	9V	143	ARG	CD-NE	5.55	1.54	1.46
1	a4	167	ARG	CA-C	-5.55	1.45	1.52
1	ah	229	ARG	CA-CB	5.55	1.62	1.53
1	ax	108	THR	CA-C	-5.55	1.45	1.52
1	aF	42	ALA	C-N	5.55	1.40	1.33
1	be	3	VAL	N-CA	5.55	1.53	1.46
1	bg	170	LYS	CA-C	5.55	1.60	1.52
1	bw	229	ARG	CD-NE	5.55	1.54	1.46
1	bx	68	MET	CA-C	-5.55	1.45	1.52
1	c1	107	THR	N-CA	5.55	1.52	1.46
1	c8	130	TYR	CA-CB	5.55	1.61	1.53
1	cm	224	PRO	CA-CB	5.55	1.58	1.53
1	cY	83	LEU	CA-CB	5.55	1.61	1.53
1	d7	229	ARG	CD-NE	5.55	1.54	1.46
1	d8	167	ARG	CA-CB	5.55	1.62	1.53
1	dI	12	HIS	CE1-NE2	5.55	1.38	1.32
1	e6	87	HIS	ND1-CE1	5.55	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eZ	101	GLY	CA-C	5.55	1.59	1.51
1	ff	82	ARG	CD-NE	5.55	1.54	1.46
1	fl	15	ILE	CA-CB	5.55	1.62	1.54
1	fl	150	ILE	C-N	5.55	1.41	1.33
1	f	199	LYS	C-O	-5.55	1.17	1.24
1	r	64	ALA	N-CA	5.55	1.53	1.46
1	v	130	TYR	N-CA	5.55	1.53	1.46
1	S	125	PRO	N-CA	-5.55	1.43	1.47
1	T	117	TRP	N-CA	-5.55	1.39	1.46
1	8	56	LEU	C-N	5.55	1.42	1.33
1	gG	197	ASP	CA-CB	5.55	1.62	1.53
1	hu	201	ILE	CA-CB	-5.55	1.47	1.54
1	iu	113	GLU	N-CA	-5.55	1.39	1.46
1	iS	98	GLU	CA-C	5.55	1.59	1.52
1	je	191	VAL	CA-CB	5.55	1.60	1.54
1	jC	136	LEU	C-N	5.55	1.41	1.33
1	jM	27	VAL	CA-CB	-5.55	1.48	1.54
1	jS	15	ILE	N-CA	5.55	1.53	1.46
1	kf	229	ARG	CD-NE	5.55	1.54	1.46
1	kj	27	VAL	CA-CB	5.55	1.60	1.54
1	kA	189	LEU	N-CA	5.55	1.53	1.46
1	kG	121	ASN	CA-CB	5.55	1.62	1.52
1	kU	98	GLU	N-CA	5.55	1.55	1.46
1	lb	1	PRO	N-CA	5.55	1.55	1.47
1	lc	17	PRO	CA-CB	5.55	1.61	1.53
1	2j	81	ASP	C-N	5.55	1.41	1.33
1	2Z	18	ARG	CA-CB	5.55	1.62	1.53
1	3z	15	ILE	N-CA	5.55	1.53	1.46
1	51	214	MET	CA-CB	5.55	1.62	1.53
1	5j	96	MET	C-N	5.55	1.41	1.33
1	5y	62	HIS	CA-CB	5.55	1.61	1.53
1	6U	104	ILE	CA-C	5.55	1.59	1.52
1	7x	84	HIS	CA-CB	5.55	1.60	1.52
1	8P	132	ARG	NE-CZ	5.55	1.39	1.33
1	9s	184	TRP	CA-CB	5.55	1.62	1.53
1	a1	148	THR	N-CA	5.55	1.52	1.46
1	ab	164	TYR	C-N	5.55	1.40	1.33
1	ae	143	ARG	CD-NE	5.55	1.54	1.46
1	ah	149	SER	C-N	5.55	1.41	1.33
1	ao	182	LYS	CA-C	-5.55	1.45	1.52
1	ax	166	ASP	CA-C	5.55	1.59	1.52
1	ay	166	ASP	CA-CB	5.55	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	az	4	GLN	CA-CB	5.55	1.61	1.53
1	aC	146	SER	CA-C	5.55	1.58	1.52
1	aC	211	LEU	CA-CB	5.55	1.62	1.53
1	aT	61	GLY	CA-C	5.55	1.59	1.51
1	bg	18	ARG	CD-NE	5.55	1.54	1.46
1	bm	67	GLN	CA-CB	-5.55	1.44	1.53
1	bF	210	THR	CB-OG1	-5.55	1.34	1.43
1	cc	124	ILE	N-CA	-5.55	1.41	1.46
1	dc	79	GLU	CA-CB	5.55	1.62	1.53
1	dF	153	ILE	CA-C	5.55	1.57	1.52
1	dJ	113	GLU	C-N	5.55	1.41	1.33
1	dZ	15	ILE	C-O	5.55	1.30	1.24
1	e9	228	ALA	C-O	-5.55	1.17	1.24
1	er	101	GLY	CA-C	-5.55	1.45	1.52
1	ew	22	ALA	CA-C	5.55	1.59	1.52
1	ft	111	LEU	CA-C	5.55	1.60	1.52
1	fx	203	LYS	C-O	5.55	1.30	1.24
1	fJ	132	ARG	CA-CB	5.55	1.61	1.53
1	1B	96	MET	CA-C	5.55	1.60	1.52
1	q	230	VAL	C-N	5.55	1.41	1.33
1	F	43	LEU	CA-CB	5.55	1.62	1.53
1	X	29	GLU	CA-C	5.55	1.60	1.52
1	g9	82	ARG	CD-NE	5.55	1.54	1.46
1	ge	170	LYS	CA-CB	-5.55	1.44	1.53
1	gf	110	THR	N-CA	5.55	1.52	1.45
1	gs	225	GLY	N-CA	5.55	1.53	1.45
1	gQ	3	VAL	CA-CB	5.55	1.61	1.54
1	hx	111	LEU	CA-C	5.55	1.59	1.52
1	hE	85	PRO	CA-C	-5.55	1.48	1.53
1	hV	96	MET	N-CA	5.55	1.53	1.45
1	ic	197	ASP	CA-C	5.55	1.59	1.52
1	ii	132	ARG	CD-NE	5.55	1.54	1.46
1	is	81	ASP	C-N	5.55	1.42	1.33
1	iu	191	VAL	CA-C	5.55	1.59	1.52
1	iD	189	LEU	CA-C	-5.55	1.45	1.52
1	j0	138	LEU	CA-C	5.55	1.59	1.52
1	jb	21	ASN	CA-CB	5.55	1.62	1.53
1	jL	134	ILE	N-CA	-5.55	1.40	1.46
1	jT	184	TRP	CA-C	-5.55	1.45	1.52
1	jT	198	CYS	C-N	-5.55	1.26	1.34
1	k5	78	ALA	C-O	-5.55	1.17	1.24
1	kV	99	PRO	CA-C	5.55	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kZ	147	PRO	CA-C	-5.55	1.44	1.52
1	lr	15	ILE	CA-CB	5.55	1.60	1.53
1	lN	66	MET	CA-C	-5.55	1.45	1.52
1	2v	155	GLN	N-CA	-5.55	1.39	1.46
1	2z	1	PRO	N-CD	5.55	1.55	1.47
1	2B	121	ASN	N-CA	-5.55	1.38	1.46
1	2P	75	GLU	N-CA	5.55	1.53	1.46
1	3c	111	LEU	CA-CB	5.55	1.61	1.53
1	3k	132	ARG	CD-NE	5.55	1.54	1.46
1	3o	103	ASP	CA-C	5.55	1.60	1.52
1	3J	92	GLU	N-CA	5.55	1.50	1.45
1	41	167	ARG	CD-NE	5.55	1.54	1.46
1	4V	173	ARG	C-N	5.55	1.41	1.33
1	4W	108	THR	N-CA	5.55	1.52	1.46
1	4Y	66	MET	N-CA	5.55	1.53	1.46
1	55	226	HIS	N-CA	-5.55	1.39	1.46
1	5E	184	TRP	CA-C	5.55	1.59	1.52
1	5I	180	GLU	N-CA	-5.55	1.39	1.46
1	5L	15	ILE	CA-CB	5.55	1.59	1.54
1	5L	161	PHE	CG-CD2	5.55	1.50	1.38
1	6e	76	GLU	CA-C	-5.55	1.45	1.52
1	6o	198	CYS	CA-C	5.55	1.59	1.52
1	6z	220	GLY	N-CA	5.55	1.53	1.45
1	6P	87	HIS	ND1-CE1	5.55	1.38	1.32
1	6W	169	TYR	N-CA	-5.55	1.39	1.46
1	74	18	ARG	N-CA	-5.55	1.39	1.46
1	7C	185	MET	C-N	5.55	1.41	1.33
1	7M	230	VAL	N-CA	5.55	1.52	1.46
1	8a	194	ALA	CA-CB	5.55	1.62	1.53
1	8C	141	ILE	CA-C	-5.55	1.45	1.52
1	8H	207	PRO	N-CA	-5.55	1.40	1.47
1	8R	198	CYS	N-CA	-5.55	1.39	1.46
1	9c	164	TYR	C-N	5.55	1.41	1.33
1	ao	125	PRO	C-N	5.55	1.40	1.33
1	b0	120	HIS	ND1-CE1	5.55	1.38	1.32
1	b1	126	VAL	C-N	5.55	1.40	1.33
1	bi	72	THR	CA-C	-5.55	1.45	1.52
1	bl	27	VAL	C-N	5.55	1.41	1.33
1	bl	204	ALA	C-N	5.55	1.41	1.33
1	bt	189	LEU	CA-CB	5.55	1.61	1.53
1	bM	131	LYS	C-O	-5.55	1.17	1.24
1	bN	28	GLU	CA-CB	5.55	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bY	155	GLN	C-N	5.55	1.41	1.33
1	bZ	167	ARG	CD-NE	5.55	1.54	1.46
1	1c	67	GLN	CA-C	5.55	1.59	1.52
1	c6	153	ILE	CA-C	5.55	1.58	1.53
1	cb	201	ILE	N-CA	5.55	1.53	1.46
1	cq	199	LYS	C-N	5.55	1.41	1.34
1	cq	203	LYS	CA-CB	5.55	1.61	1.53
1	cQ	56	LEU	CA-C	-5.55	1.45	1.52
1	d5	120	HIS	CD2-NE2	5.55	1.44	1.37
1	di	167	ARG	CA-CB	5.55	1.61	1.53
1	dM	41	SER	CA-C	5.55	1.59	1.52
1	e1	94	GLY	N-CA	5.55	1.53	1.45
1	e1	161	PHE	CB-CG	5.55	1.63	1.50
1	e4	67	GLN	CA-CB	5.55	1.61	1.53
1	en	112	GLN	CA-CB	5.55	1.61	1.53
1	1s	149	SER	CA-C	-5.55	1.45	1.52
1	f6	160	PRO	CA-C	5.55	1.59	1.52
1	fa	87	HIS	CA-CB	5.55	1.61	1.53
1	fc	226	HIS	CB-CG	-5.55	1.42	1.50
1	fv	11	VAL	C-N	5.55	1.41	1.33
1	fC	119	THR	C-N	5.55	1.41	1.33
1	fX	62	HIS	ND1-CE1	-5.55	1.26	1.32
1	0	100	ARG	CZ-NH1	-5.55	1.25	1.32
1	h	209	ALA	CA-C	5.55	1.60	1.52
1	z	23	TRP	NE1-CE2	-5.55	1.31	1.37
1	Q	130	TYR	CA-CB	5.55	1.61	1.53
1	5	198	CYS	C-N	5.55	1.41	1.33
1	gF	67	GLN	C-N	5.55	1.41	1.33
1	gJ	170	LYS	CA-C	5.55	1.59	1.52
1	gX	57	ASN	CA-CB	5.55	1.61	1.53
1	h8	201	ILE	N-CA	-5.55	1.39	1.46
1	hd	176	GLN	C-N	5.55	1.41	1.33
1	hr	128	GLU	CA-CB	5.55	1.62	1.53
1	hX	77	ALA	C-N	5.55	1.41	1.33
1	iQ	78	ALA	N-CA	-5.55	1.39	1.46
1	iV	167	ARG	CD-NE	5.55	1.54	1.46
1	1V	181	VAL	N-CA	5.55	1.53	1.46
1	k2	142	VAL	CA-CB	5.55	1.61	1.54
1	k4	217	ALA	N-CA	-5.55	1.39	1.46
1	k9	131	LYS	N-CA	5.55	1.52	1.46
1	20	111	LEU	C-N	5.55	1.41	1.33
1	kg	143	ARG	CA-C	-5.55	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kl	230	VAL	CA-CB	-5.55	1.47	1.54
1	kp	162	ARG	CD-NE	5.55	1.54	1.46
1	kN	24	VAL	N-CA	-5.55	1.40	1.46
1	kP	161	PHE	CA-CB	5.55	1.62	1.53
1	lf	84	HIS	CA-C	5.55	1.58	1.52
1	2n	18	ARG	CA-C	5.55	1.59	1.52
1	2q	142	VAL	C-N	5.55	1.41	1.33
1	2w	157	PRO	CA-C	-5.55	1.44	1.52
1	2z	140	LYS	CA-CB	5.55	1.61	1.53
1	2D	134	ILE	CA-C	-5.55	1.44	1.52
1	2H	126	VAL	CA-CB	-5.55	1.46	1.54
1	2T	52	LEU	CA-C	5.55	1.59	1.52
1	2Z	92	GLU	C-O	-5.55	1.16	1.23
1	38	67	GLN	C-N	5.55	1.41	1.33
1	3i	12	HIS	CA-C	-5.55	1.45	1.52
1	42	59	VAL	CA-C	-5.55	1.47	1.53
1	45	229	ARG	CD-NE	5.55	1.54	1.46
1	47	160	PRO	C-N	5.55	1.40	1.33
1	4p	123	PRO	C-N	-5.55	1.28	1.33
1	58	22	ALA	CA-C	-5.55	1.45	1.52
1	5m	33	SER	CA-C	-5.55	1.47	1.53
1	5u	136	LEU	CA-C	-5.55	1.45	1.52
1	5G	165	VAL	C-O	-5.55	1.17	1.24
1	5N	197	ASP	CA-C	5.55	1.59	1.52
1	5P	209	ALA	N-CA	-5.55	1.39	1.46
1	6y	174	ALA	CA-C	5.55	1.59	1.52
1	79	161	PHE	C-N	5.55	1.41	1.33
1	7X	35	GLU	N-CA	-5.55	1.38	1.45
1	9l	1	PRO	N-CD	5.55	1.55	1.47
1	9H	42	ALA	CA-C	5.55	1.60	1.52
1	av	162	ARG	CA-C	5.55	1.59	1.52
1	ax	131	LYS	C-N	5.55	1.41	1.33
1	aN	210	THR	C-N	5.55	1.41	1.33
1	aT	91	ILE	CA-CB	-5.55	1.48	1.54
1	aW	48	THR	CA-CB	5.55	1.61	1.53
1	b8	91	ILE	N-CA	5.55	1.51	1.46
1	bf	87	HIS	CA-CB	5.55	1.62	1.53
1	bL	3	VAL	N-CA	-5.55	1.38	1.46
1	bL	77	ALA	C-O	-5.55	1.17	1.24
1	bR	32	PHE	N-CA	-5.55	1.39	1.46
1	bV	190	LEU	CA-CB	5.55	1.62	1.53
1	1b	66	MET	N-CA	5.55	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c6	169	TYR	N-CA	-5.55	1.39	1.46
1	ct	200	THR	CA-CB	-5.55	1.44	1.53
1	1f	135	ILE	CA-C	5.55	1.59	1.52
1	cB	163	ASP	C-N	5.55	1.41	1.34
1	cF	124	ILE	CA-C	5.55	1.56	1.52
1	cT	79	GLU	CA-C	5.55	1.59	1.52
1	d3	227	LYS	CA-C	5.55	1.60	1.53
1	dq	31	ALA	CA-C	-5.55	1.46	1.53
1	dq	82	ARG	CA-CB	5.55	1.63	1.53
1	dw	130	TYR	N-CA	5.55	1.53	1.46
1	dz	127	GLY	N-CA	5.55	1.53	1.45
1	dX	199	LYS	N-CA	5.55	1.53	1.46
1	e5	185	MET	CA-C	5.55	1.60	1.52
1	1s	132	ARG	CA-C	-5.55	1.45	1.52
1	f9	128	GLU	CA-CB	5.55	1.61	1.53
1	fb	87	HIS	CA-CB	5.55	1.62	1.53
1	fe	86	VAL	C-N	5.55	1.40	1.33
1	fn	221	VAL	CA-CB	-5.55	1.48	1.54
1	fY	183	ASN	CA-C	5.55	1.60	1.52
1	1B	1	PRO	N-CA	5.55	1.55	1.47
1	0	143	ARG	NE-CZ	5.55	1.39	1.33
1	g	106	GLY	C-N	-5.55	1.26	1.33
1	B	220	GLY	CA-C	-5.55	1.43	1.51
1	F	216	THR	N-CA	5.55	1.52	1.46
1	H	178	SER	CA-CB	5.55	1.63	1.53
1	U	23	TRP	NE1-CE2	-5.55	1.31	1.37
1	6	188	THR	CA-C	5.55	1.57	1.52
1	go	98	GLU	CA-C	5.55	1.59	1.53
1	gq	34	PRO	C-N	5.55	1.41	1.33
1	gJ	41	SER	CA-C	5.55	1.59	1.52
1	gO	50	GLN	CA-C	-5.55	1.45	1.52
1	i2	5	ASN	CA-C	-5.55	1.45	1.52
1	i9	62	HIS	ND1-CE1	-5.55	1.27	1.32
1	iA	64	ALA	CA-CB	5.55	1.61	1.53
1	jc	182	LYS	CA-CB	5.55	1.61	1.53
1	ju	83	LEU	C-N	5.55	1.42	1.33
1	jT	9	GLN	N-CA	5.55	1.53	1.45
1	k1	190	LEU	CA-CB	5.55	1.61	1.53
1	20	18	ARG	CA-C	-5.55	1.45	1.52
1	ks	211	LEU	N-CA	-5.55	1.39	1.46
1	22	112	GLN	C-N	5.55	1.40	1.33
1	kJ	212	GLU	C-N	5.55	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kW	93	PRO	C-N	5.55	1.41	1.33
1	26	15	ILE	CA-CB	5.55	1.59	1.54
1	lg	82	ARG	N-CA	5.55	1.52	1.46
1	2F	97	ARG	CD-NE	5.55	1.54	1.46
1	2J	127	GLY	C-N	5.55	1.41	1.33
1	2W	189	LEU	CA-CB	5.55	1.62	1.53
1	2W	207	PRO	N-CA	-5.55	1.43	1.47
1	5f	12	HIS	ND1-CE1	5.55	1.38	1.32
1	5G	52	LEU	N-CA	-5.55	1.39	1.46
1	5V	98	GLU	N-CA	-5.55	1.38	1.46
1	69	158	LYS	CA-C	5.55	1.60	1.52
1	6t	64	ALA	C-O	-5.55	1.17	1.24
1	7c	133	TRP	NE1-CE2	-5.55	1.31	1.37
1	85	54	THR	CA-C	5.55	1.59	1.52
1	8m	203	LYS	C-O	-5.55	1.17	1.24
1	8P	61	GLY	CA-C	5.55	1.58	1.52
1	ay	70	LYS	CA-C	-5.55	1.45	1.52
1	ay	189	LEU	CA-C	5.55	1.60	1.52
1	aW	29	GLU	CA-CB	5.55	1.62	1.53
1	bI	73	ILE	C-N	5.55	1.41	1.33
1	cb	175	GLU	C-N	5.55	1.41	1.33
1	db	120	HIS	ND1-CE1	5.55	1.38	1.32
1	de	47	ALA	CA-C	5.55	1.59	1.52
1	dt	79	GLU	CA-CB	5.55	1.61	1.53
1	dG	9	GLN	CA-CB	5.55	1.62	1.53
1	dJ	38	PRO	C-N	5.55	1.41	1.33
1	ef	133	TRP	CA-C	-5.55	1.45	1.52
1	ev	165	VAL	N-CA	-5.55	1.39	1.46
1	1B	84	HIS	ND1-CE1	5.55	1.38	1.32
1	gk	204	ALA	CA-C	5.55	1.60	1.52
1	gp	126	VAL	CA-C	5.55	1.59	1.52
1	gv	51	ASP	N-CA	5.55	1.52	1.46
1	gx	168	PHE	N-CA	-5.55	1.39	1.46
1	gB	11	VAL	C-N	5.55	1.41	1.33
1	gO	134	ILE	CA-C	5.55	1.59	1.52
1	gU	154	ARG	N-CA	-5.55	1.39	1.46
1	gX	184	TRP	CA-CB	5.55	1.62	1.53
1	hc	82	ARG	CD-NE	5.55	1.54	1.46
1	hn	94	GLY	CA-C	5.55	1.59	1.51
1	hu	100	ARG	CA-CB	5.55	1.61	1.53
1	hJ	159	GLU	CA-C	5.55	1.60	1.53
1	hN	24	VAL	C-N	5.55	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hO	177	ALA	CA-CB	5.55	1.62	1.53
1	hR	10	MET	C-N	5.55	1.40	1.33
1	iS	20	LEU	C-O	-5.55	1.17	1.24
1	j8	17	PRO	CA-CB	-5.55	1.45	1.53
1	ja	83	LEU	CA-C	-5.55	1.45	1.52
1	jq	173	ARG	NE-CZ	-5.55	1.26	1.33
1	js	143	ARG	CA-CB	5.55	1.62	1.53
1	1W	173	ARG	CZ-NH2	-5.55	1.26	1.33
1	jM	26	VAL	CA-C	5.55	1.59	1.52
1	22	62	HIS	CA-CB	5.55	1.61	1.53
1	kF	163	ASP	CA-CB	5.55	1.62	1.53
1	l9	221	VAL	C-N	5.55	1.41	1.33
1	lc	220	GLY	CA-C	5.55	1.57	1.51
1	li	4	GLN	CA-CB	5.55	1.62	1.53
1	lx	213	GLU	CA-C	5.55	1.59	1.52
1	lB	192	GLN	CA-C	-5.55	1.45	1.52
1	lE	148	THR	C-O	-5.55	1.17	1.23
1	lI	212	GLU	CA-C	5.55	1.60	1.52
1	2E	173	ARG	CD-NE	5.55	1.54	1.46
1	2K	12	HIS	CA-C	-5.55	1.45	1.52
1	3m	132	ARG	C-N	5.55	1.41	1.33
1	3s	219	GLN	C-N	5.55	1.40	1.33
1	3t	15	ILE	CA-C	5.55	1.58	1.52
1	3O	172	LEU	C-N	5.55	1.41	1.33
1	4j	169	TYR	N-CA	-5.55	1.39	1.46
1	4k	145	TYR	C-N	5.55	1.41	1.33
1	4S	36	VAL	C-N	5.55	1.39	1.33
1	5c	173	ARG	C-O	5.55	1.30	1.24
1	5B	114	GLN	CA-CB	5.55	1.62	1.53
1	6c	90	PRO	CA-C	-5.55	1.46	1.52
1	7e	6	LEU	C-N	5.55	1.40	1.33
1	7j	183	ASN	C-N	5.55	1.41	1.33
1	7k	159	GLU	CA-CB	5.55	1.61	1.52
1	7l	141	ILE	CA-CB	-5.55	1.47	1.54
1	7R	37	ILE	N-CA	5.55	1.53	1.46
1	86	98	GLU	C-N	5.55	1.39	1.33
1	8R	4	GLN	C-O	5.55	1.30	1.23
1	9r	39	MET	CA-CB	5.55	1.61	1.53
1	9v	9	GLN	N-CA	-5.55	1.38	1.46
1	9C	99	PRO	C-O	5.55	1.29	1.23
1	9K	180	GLU	CA-C	-5.55	1.45	1.52
1	Y	101	GLY	CA-C	-5.55	1.45	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9Q	173	ARG	CD-NE	5.55	1.54	1.46
1	9R	75	GLU	N-CA	-5.55	1.39	1.46
1	a7	144	MET	CA-CB	5.55	1.63	1.53
1	aq	39	MET	C-N	5.55	1.41	1.33
1	ay	167	ARG	CZ-NH2	-5.55	1.26	1.33
1	aY	146	SER	CA-CB	5.55	1.62	1.53
1	16	11	VAL	C-N	5.55	1.41	1.33
1	bC	148	THR	N-CA	-5.55	1.39	1.46
1	bZ	98	GLU	CA-C	5.55	1.59	1.52
1	c4	151	LEU	C-N	5.55	1.41	1.33
1	cH	18	ARG	N-CA	-5.55	1.39	1.46
1	cH	98	GLU	CA-CB	5.55	1.62	1.53
1	cJ	36	VAL	C-N	5.55	1.41	1.34
1	cL	174	ALA	CA-C	5.55	1.59	1.52
1	d2	220	GLY	C-N	5.55	1.40	1.33
1	d8	145	TYR	N-CA	-5.55	1.39	1.46
1	dq	201	ILE	CA-CB	-5.55	1.48	1.54
1	dM	120	HIS	CB-CG	-5.55	1.42	1.50
1	dS	86	VAL	CA-CB	-5.55	1.47	1.54
1	dT	118	MET	CA-C	5.55	1.60	1.52
1	e8	132	ARG	NE-CZ	5.55	1.39	1.33
1	el	223	GLY	C-N	-5.55	1.27	1.34
1	eA	155	GLN	N-CA	-5.55	1.39	1.46
1	eH	56	LEU	CA-CB	5.55	1.61	1.53
1	eN	91	ILE	CA-C	-5.55	1.47	1.53
1	eR	37	ILE	CA-CB	-5.55	1.50	1.53
1	f4	100	ARG	CA-CB	5.55	1.62	1.53
1	1w	149	SER	CA-C	5.55	1.60	1.52
1	fm	53	ASN	CA-CB	-5.55	1.44	1.53
1	1y	147	PRO	C-N	5.55	1.41	1.33
1	L	129	ILE	CA-C	-5.55	1.46	1.52
1	N	205	LEU	CA-C	5.55	1.59	1.52
1	g9	228	ALA	CA-C	5.54	1.60	1.53
1	gn	181	VAL	CA-CB	-5.54	1.48	1.54
1	hc	11	VAL	CA-C	5.54	1.59	1.52
1	hd	91	ILE	CA-C	5.54	1.58	1.52
1	hk	188	THR	CA-C	5.54	1.57	1.52
1	hA	141	ILE	C-O	-5.54	1.17	1.24
1	hH	42	ALA	CA-C	5.54	1.59	1.52
1	hX	123	PRO	N-CA	-5.54	1.40	1.47
1	i4	92	GLU	CA-C	5.54	1.59	1.53
1	iI	93	PRO	CA-CB	5.54	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jS	211	LEU	N-CA	-5.54	1.39	1.46
1	jV	51	ASP	CA-CB	5.54	1.61	1.53
1	kX	167	ARG	C-N	5.54	1.41	1.33
1	l6	67	GLN	C-N	5.54	1.41	1.33
1	lt	120	HIS	CG-CD2	5.54	1.42	1.35
1	lE	5	ASN	CA-CB	5.54	1.61	1.53
1	lN	45	GLU	CA-CB	5.54	1.62	1.53
1	lO	179	GLN	C-N	5.54	1.41	1.33
1	2s	23	TRP	CA-C	5.54	1.59	1.52
1	2t	71	GLU	CA-CB	5.54	1.61	1.53
1	2P	81	ASP	CA-C	5.54	1.59	1.52
1	3A	187	GLU	CA-C	-5.54	1.45	1.52
1	3E	126	VAL	C-O	-5.54	1.17	1.24
1	3Q	190	LEU	CA-C	5.54	1.59	1.52
1	4f	25	LYS	C-N	5.54	1.40	1.33
1	4T	4	GLN	C-N	-5.54	1.25	1.33
1	54	64	ALA	CA-CB	-5.54	1.44	1.53
1	5h	205	LEU	CA-CB	5.54	1.61	1.53
1	5o	56	LEU	C-N	5.54	1.41	1.33
1	5J	130	TYR	CA-C	5.54	1.59	1.52
1	5S	22	ALA	CA-C	-5.54	1.45	1.52
1	6K	117	TRP	CD2-CE3	-5.54	1.31	1.40
1	6R	155	GLN	CA-CB	5.54	1.63	1.53
1	7d	201	ILE	CA-C	-5.54	1.46	1.52
1	7L	145	TYR	N-CA	-5.54	1.40	1.46
1	7X	161	PHE	CA-CB	5.54	1.61	1.53
1	8j	165	VAL	CA-CB	-5.54	1.46	1.54
1	91	118	MET	CA-C	-5.54	1.45	1.52
1	9U	84	HIS	CD2-NE2	5.54	1.44	1.37
1	ak	127	GLY	CA-C	5.54	1.58	1.52
1	b7	63	GLN	CA-C	-5.54	1.45	1.52
1	bw	84	HIS	CG-CD2	5.54	1.42	1.35
1	bL	68	MET	C-O	-5.54	1.17	1.24
1	bW	212	GLU	CA-CB	5.54	1.62	1.53
1	cg	68	MET	C-O	-5.54	1.17	1.24
1	ch	112	GLN	C-N	5.54	1.41	1.33
1	cM	181	VAL	C-O	-5.54	1.17	1.24
1	dx	157	PRO	CA-CB	5.54	1.61	1.53
1	dF	15	ILE	CA-C	5.54	1.61	1.52
1	el	88	ALA	C-N	5.54	1.41	1.33
1	eH	121	ASN	CA-C	5.54	1.57	1.52
1	eI	12	HIS	CD2-NE2	5.54	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eT	92	GLU	CA-C	-5.54	1.46	1.53
1	fo	14	ALA	C-O	-5.54	1.17	1.23
1	1x	142	VAL	C-O	-5.54	1.17	1.24
1	f	52	LEU	C-N	5.54	1.41	1.33
1	r	179	GLN	N-CA	-5.54	1.39	1.46
1	x	130	TYR	CA-C	5.54	1.59	1.52
1	3	101	GLY	N-CA	5.54	1.52	1.45
1	gB	120	HIS	N-CA	-5.54	1.39	1.46
1	gP	97	ARG	CD-NE	5.54	1.54	1.46
1	h3	116	GLY	C-N	5.54	1.42	1.33
1	hF	41	SER	CA-CB	5.54	1.61	1.53
1	hY	108	THR	CA-C	-5.54	1.45	1.52
1	ip	62	HIS	CG-ND1	5.54	1.44	1.38
1	iy	200	THR	C-N	5.54	1.40	1.33
1	j7	78	ALA	C-N	5.54	1.41	1.33
1	1U	144	MET	CA-C	5.54	1.59	1.52
1	jj	34	PRO	C-N	5.54	1.41	1.33
1	1V	118	MET	CA-CB	5.54	1.62	1.53
1	jz	204	ALA	C-N	5.54	1.41	1.33
1	jF	49	PRO	N-CA	-5.54	1.40	1.47
1	jP	11	VAL	CA-CB	-5.54	1.45	1.55
1	k6	213	GLU	CA-C	5.54	1.59	1.52
1	ke	160	PRO	CA-CB	5.54	1.61	1.53
1	kn	9	GLN	CA-CB	5.54	1.61	1.53
1	l4	134	ILE	C-N	5.54	1.40	1.33
1	26	65	ALA	N-CA	-5.54	1.39	1.46
1	l8	198	CYS	N-CA	-5.54	1.39	1.46
1	la	76	GLU	CA-C	-5.54	1.45	1.52
1	28	82	ARG	CA-CB	5.54	1.61	1.53
1	lC	4	GLN	CA-CB	5.54	1.62	1.53
1	2y	80	TRP	NE1-CE2	-5.54	1.31	1.37
1	3c	62	HIS	ND1-CE1	5.54	1.38	1.32
1	3s	120	HIS	C-N	-5.54	1.27	1.33
1	3N	131	LYS	CA-CB	5.54	1.62	1.53
1	3Z	229	ARG	C-N	5.54	1.40	1.33
1	4b	100	ARG	CZ-NH1	-5.54	1.25	1.32
1	4d	32	PHE	C-N	-5.54	1.27	1.33
1	4h	17	PRO	CA-CB	-5.54	1.46	1.53
1	4h	64	ALA	CA-CB	5.54	1.61	1.53
1	4u	65	ALA	N-CA	-5.54	1.39	1.46
1	4A	11	VAL	CA-CB	-5.54	1.46	1.54
1	4N	180	GLU	CA-CB	5.54	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4Z	93	PRO	C-N	5.54	1.40	1.33
1	4Z	98	GLU	CA-C	5.54	1.60	1.53
1	59	99	PRO	CA-CB	-5.54	1.48	1.53
1	5h	33	SER	N-CA	-5.54	1.40	1.46
1	5M	75	GLU	N-CA	-5.54	1.39	1.46
1	69	82	ARG	CA-CB	5.54	1.61	1.53
1	6s	28	GLU	C-N	5.54	1.40	1.33
1	6u	57	ASN	CA-CB	5.54	1.62	1.53
1	6x	188	THR	N-CA	5.54	1.52	1.46
1	6E	82	ARG	N-CA	5.54	1.53	1.46
1	6N	120	HIS	ND1-CE1	5.54	1.38	1.32
1	7Z	200	THR	CA-C	5.54	1.60	1.52
1	87	224	PRO	C-N	5.54	1.38	1.33
1	8b	10	MET	CA-C	-5.54	1.45	1.52
1	8i	84	HIS	CE1-NE2	-5.54	1.27	1.32
1	8B	162	ARG	CD-NE	5.54	1.54	1.46
1	8Y	27	VAL	CA-C	5.54	1.60	1.52
1	9s	203	LYS	N-CA	-5.54	1.39	1.46
1	9w	48	THR	CA-C	5.54	1.59	1.52
1	9H	205	LEU	CA-CB	5.54	1.61	1.53
1	Z	45	GLU	CA-CB	5.54	1.62	1.53
1	ay	55	MET	C-N	5.54	1.41	1.34
1	aB	74	ASN	CA-C	5.54	1.59	1.52
1	aL	45	GLU	CA-CB	5.54	1.62	1.53
1	aN	170	LYS	C-N	5.54	1.42	1.33
1	b1	168	PHE	CA-C	-5.54	1.45	1.52
1	bk	95	GLN	CA-C	-5.54	1.45	1.52
1	bA	13	GLN	C-N	5.54	1.40	1.33
1	bU	169	TYR	N-CA	-5.54	1.39	1.46
1	c7	20	LEU	CA-C	5.54	1.59	1.52
1	cJ	142	VAL	CA-CB	5.54	1.61	1.54
1	cQ	209	ALA	CA-C	5.54	1.60	1.53
1	1h	78	ALA	C-N	5.54	1.41	1.33
1	d2	217	ALA	N-CA	-5.54	1.39	1.46
1	dg	174	ALA	C-O	5.54	1.31	1.24
1	dm	7	GLN	CA-C	5.54	1.59	1.52
1	dM	208	ALA	C-O	5.54	1.31	1.24
1	dN	107	THR	CA-CB	5.54	1.62	1.53
1	eE	151	LEU	C-N	5.54	1.41	1.33
1	eS	106	GLY	CA-C	-5.54	1.43	1.51
1	f9	229	ARG	CD-NE	5.54	1.54	1.46
1	fc	24	VAL	CA-CB	5.54	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1z	142	VAL	CA-CB	-5.54	1.47	1.54
1	fQ	216	THR	CA-CB	-5.54	1.45	1.53
1	fY	82	ARG	NE-CZ	5.54	1.39	1.33
1	a	60	GLY	CA-C	5.54	1.59	1.51
1	v	152	ASP	C-N	5.54	1.40	1.34
1	h6	131	LYS	CA-C	5.54	1.59	1.52
1	hc	96	MET	CA-C	5.54	1.60	1.52
1	hj	12	HIS	C-N	-5.54	1.25	1.33
1	hk	142	VAL	CA-C	5.54	1.60	1.52
1	hB	5	ASN	CA-C	5.54	1.59	1.52
1	hL	202	LEU	N-CA	-5.54	1.39	1.46
1	hN	50	GLN	CA-CB	5.54	1.61	1.53
1	1N	32	PHE	CA-CB	5.54	1.60	1.53
1	i8	106	GLY	C-N	5.54	1.41	1.33
1	ig	229	ARG	CD-NE	5.54	1.54	1.46
1	il	145	TYR	CA-CB	5.54	1.61	1.53
1	iC	1	PRO	C-N	-5.54	1.26	1.33
1	iG	197	ASP	CA-C	-5.54	1.45	1.52
1	j4	225	GLY	C-O	5.54	1.31	1.24
1	k0	182	LYS	C-O	-5.54	1.17	1.24
1	kg	91	ILE	CA-C	-5.54	1.45	1.52
1	kq	32	PHE	CA-CB	5.54	1.63	1.53
1	kL	229	ARG	CD-NE	5.54	1.54	1.46
1	kO	83	LEU	C-N	5.54	1.37	1.33
1	29	220	GLY	CA-C	-5.54	1.44	1.51
1	2H	12	HIS	CB-CG	5.54	1.57	1.50
1	2I	124	ILE	N-CA	-5.54	1.39	1.46
1	2K	62	HIS	CB-CG	-5.54	1.42	1.50
1	2S	81	ASP	CA-CB	5.54	1.61	1.53
1	3I	46	GLY	C-N	5.54	1.41	1.33
1	3X	84	HIS	CA-CB	5.54	1.59	1.53
1	49	156	GLY	C-N	5.54	1.38	1.33
1	5g	2	ILE	C-N	5.54	1.40	1.33
1	5i	90	PRO	CA-C	-5.54	1.44	1.52
1	5t	94	GLY	CA-C	-5.54	1.43	1.51
1	5w	162	ARG	C-N	-5.54	1.26	1.33
1	5x	70	LYS	N-CA	-5.54	1.39	1.46
1	5B	106	GLY	CA-C	5.54	1.59	1.51
1	5E	206	GLY	C-N	-5.54	1.29	1.33
1	5V	124	ILE	CB-CG1	5.54	1.64	1.53
1	5Z	60	GLY	C-N	-5.54	1.26	1.33
1	6e	84	HIS	CA-C	5.54	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6f	78	ALA	N-CA	-5.54	1.39	1.46
1	6n	126	VAL	C-N	5.54	1.40	1.33
1	6F	25	LYS	N-CA	5.54	1.53	1.46
1	6K	83	LEU	C-N	5.54	1.40	1.33
1	6T	56	LEU	C-N	5.54	1.41	1.33
1	73	108	THR	N-CA	5.54	1.53	1.46
1	7a	200	THR	C-N	5.54	1.40	1.33
1	7c	157	PRO	N-CA	-5.54	1.40	1.47
1	7j	135	ILE	CA-C	-5.54	1.45	1.52
1	7m	55	MET	CA-CB	5.54	1.62	1.53
1	7B	189	LEU	CA-CB	5.54	1.61	1.53
1	7H	5	ASN	CA-C	-5.54	1.45	1.52
1	7M	110	THR	C-N	5.54	1.41	1.33
1	8j	31	ALA	N-CA	-5.54	1.39	1.46
1	8F	32	PHE	CA-CB	5.54	1.62	1.53
1	8Y	68	MET	C-N	5.54	1.41	1.33
1	9a	182	LYS	CA-C	5.54	1.59	1.52
1	9p	154	ARG	CA-CB	5.54	1.61	1.53
1	9s	150	ILE	CA-C	5.54	1.59	1.52
1	9I	135	ILE	CA-CB	-5.54	1.48	1.54
1	9P	190	LEU	C-N	5.54	1.40	1.33
1	Y	143	ARG	C-O	-5.54	1.17	1.24
1	9S	117	TRP	NE1-CE2	-5.54	1.31	1.37
1	Z	100	ARG	CA-C	5.54	1.61	1.53
1	a2	199	LYS	N-CA	-5.54	1.39	1.46
1	13	128	GLU	CA-CB	5.54	1.61	1.53
1	13	141	ILE	N-CA	-5.54	1.39	1.46
1	b8	132	ARG	N-CA	-5.54	1.39	1.46
1	bk	184	TRP	NE1-CE2	5.54	1.43	1.37
1	bl	211	LEU	N-CA	-5.54	1.39	1.46
1	bn	4	GLN	N-CA	-5.54	1.39	1.46
1	bH	124	ILE	CA-C	-5.54	1.47	1.52
1	bM	208	ALA	C-N	5.54	1.41	1.33
1	ci	108	THR	CA-C	-5.54	1.44	1.52
1	cF	205	LEU	N-CA	5.54	1.52	1.46
1	d0	59	VAL	CA-CB	-5.54	1.47	1.53
1	d3	61	GLY	CA-C	5.54	1.58	1.52
1	d5	182	LYS	CA-C	5.54	1.60	1.52
1	dv	38	PRO	C-N	5.54	1.41	1.34
1	dy	62	HIS	CE1-NE2	5.54	1.38	1.32
1	dH	166	ASP	CA-CB	5.54	1.61	1.53
1	dI	133	TRP	CA-CB	5.54	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1q	138	LEU	C-N	5.54	1.41	1.33
1	en	148	THR	CA-C	-5.54	1.45	1.52
1	ev	3	VAL	CA-C	5.54	1.59	1.52
1	ev	69	LEU	CA-C	5.54	1.59	1.52
1	eO	7	GLN	CA-CB	5.54	1.62	1.54
1	eQ	195	ASN	N-CA	5.54	1.53	1.45
1	eY	177	ALA	CA-C	5.54	1.60	1.52
1	f5	68	MET	N-CA	5.54	1.53	1.46
1	fq	144	MET	CA-CB	5.54	1.62	1.53
1	ft	25	LYS	CA-CB	5.54	1.62	1.53
1	fB	214	MET	CA-CB	5.54	1.61	1.53
1	fF	204	ALA	N-CA	-5.54	1.39	1.46
1	fI	5	ASN	N-CA	-5.54	1.38	1.45
1	1A	183	ASN	CA-CB	5.54	1.61	1.53
1	y	169	TYR	CA-CB	5.54	1.62	1.53
1	y	207	PRO	CA-CB	5.54	1.61	1.53
1	5	221	VAL	N-CA	-5.54	1.38	1.46
1	9	131	LYS	N-CA	5.54	1.52	1.46
1	ga	70	LYS	C-N	5.54	1.41	1.33
1	hh	8	GLY	CA-C	5.54	1.59	1.51
1	i3	41	SER	C-N	5.54	1.41	1.33
1	iB	123	PRO	CA-C	5.54	1.60	1.52
1	iG	90	PRO	N-CA	-5.54	1.40	1.47
1	iS	108	THR	CA-C	-5.54	1.45	1.52
1	iV	132	ARG	NE-CZ	-5.54	1.26	1.33
1	jD	50	GLN	C-N	5.54	1.41	1.33
1	jE	229	ARG	CD-NE	5.54	1.54	1.46
1	k3	64	ALA	CA-C	-5.54	1.44	1.52
1	kt	124	ILE	CA-C	5.54	1.57	1.52
1	lc	199	LYS	N-CA	5.54	1.53	1.46
1	lD	166	ASP	CA-CB	5.54	1.61	1.53
1	lQ	168	PHE	CB-CG	5.54	1.63	1.50
1	2b	89	GLY	CA-C	5.54	1.59	1.51
1	2s	143	ARG	CD-NE	5.54	1.54	1.46
1	2F	62	HIS	ND1-CE1	5.54	1.38	1.32
1	3a	83	LEU	N-CA	-5.54	1.39	1.46
1	3E	37	ILE	CA-C	5.54	1.57	1.52
1	41	102	SER	CA-CB	5.54	1.62	1.53
1	56	193	ASN	N-CA	-5.54	1.39	1.46
1	5x	132	ARG	NE-CZ	-5.54	1.26	1.33
1	5B	229	ARG	CD-NE	5.54	1.54	1.46
1	5P	192	GLN	N-CA	5.54	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	67	224	PRO	CA-C	5.54	1.59	1.53
1	6p	181	VAL	C-N	5.54	1.40	1.33
1	6s	134	ILE	N-CA	5.54	1.53	1.46
1	8V	80	TRP	C-N	5.54	1.42	1.33
1	8W	17	PRO	CA-C	5.54	1.60	1.52
1	9m	7	GLN	C-N	5.54	1.42	1.33
1	9I	126	VAL	N-CA	-5.54	1.39	1.46
1	be	33	SER	C-N	5.54	1.40	1.33
1	bm	61	GLY	C-O	-5.54	1.18	1.23
1	bs	138	LEU	CA-CB	5.54	1.61	1.53
1	cx	32	PHE	C-N	5.54	1.41	1.33
1	cL	196	PRO	CA-C	5.54	1.59	1.52
1	cV	84	HIS	C-O	-5.54	1.20	1.25
1	cV	219	GLN	N-CA	-5.54	1.39	1.46
1	dh	59	VAL	N-CA	5.54	1.53	1.46
1	dp	73	ILE	N-CA	-5.54	1.39	1.46
1	dP	3	VAL	N-CA	5.54	1.52	1.46
1	dS	72	THR	C-N	5.54	1.41	1.34
1	eJ	89	GLY	N-CA	5.54	1.52	1.44
1	fb	200	THR	CA-CB	-5.54	1.44	1.53
1	fP	205	LEU	N-CA	5.54	1.53	1.46
1	1	124	ILE	CA-C	5.54	1.57	1.53
1	r	143	ARG	CD-NE	5.54	1.54	1.46
1	ga	132	ARG	NE-CZ	5.54	1.39	1.33
1	gi	49	PRO	C-N	5.54	1.41	1.33
1	gi	160	PRO	N-CA	5.54	1.54	1.47
1	gk	219	GLN	C-O	-5.54	1.16	1.23
1	gs	202	LEU	N-CA	-5.54	1.39	1.46
1	gJ	180	GLU	C-O	-5.54	1.17	1.24
1	gL	138	LEU	CA-CB	5.54	1.61	1.53
1	gL	188	THR	N-CA	5.54	1.53	1.46
1	gO	54	THR	C-N	5.54	1.40	1.33
1	gO	62	HIS	CE1-NE2	5.54	1.38	1.32
1	gT	214	MET	CA-C	5.54	1.59	1.52
1	1I	116	GLY	CA-C	-5.54	1.45	1.52
1	hk	152	ASP	CA-CB	5.54	1.61	1.53
1	hr	82	ARG	NE-CZ	-5.54	1.26	1.33
1	1K	12	HIS	CG-ND1	5.54	1.44	1.38
1	1L	156	GLY	N-CA	5.54	1.52	1.44
1	hU	112	GLN	C-N	5.54	1.41	1.33
1	iu	188	THR	CA-C	5.54	1.59	1.53
1	iF	173	ARG	CA-CB	5.54	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iK	229	ARG	C-N	5.54	1.44	1.33
1	j0	226	HIS	CB-CG	-5.54	1.42	1.50
1	j5	93	PRO	N-CA	5.54	1.54	1.47
1	j8	190	LEU	CA-C	5.54	1.60	1.52
1	1V	146	SER	CA-CB	5.54	1.61	1.53
1	jE	58	THR	C-N	5.54	1.40	1.33
1	1Y	96	MET	CA-CB	5.54	1.61	1.53
1	k5	170	LYS	CA-CB	5.54	1.61	1.53
1	24	2	ILE	CA-CB	-5.54	1.47	1.53
1	kX	140	LYS	C-N	5.54	1.40	1.33
1	kZ	28	GLU	CA-C	-5.54	1.45	1.52
1	lo	41	SER	C-N	5.54	1.41	1.33
1	lB	126	VAL	C-N	5.54	1.40	1.33
1	lL	6	LEU	N-CA	-5.54	1.39	1.46
1	37	25	LYS	C-N	5.54	1.40	1.33
1	38	218	CYS	CA-CB	5.54	1.62	1.53
1	3i	200	THR	C-N	5.54	1.40	1.33
1	3F	170	LYS	N-CA	5.54	1.52	1.46
1	47	161	PHE	C-N	5.54	1.41	1.33
1	4j	78	ALA	N-CA	-5.54	1.39	1.46
1	4l	208	ALA	CA-C	5.54	1.60	1.52
1	4n	37	ILE	CA-C	5.54	1.57	1.52
1	4A	175	GLU	C-N	5.54	1.40	1.33
1	4D	125	PRO	N-CD	-5.54	1.40	1.47
1	4G	13	GLN	CA-C	5.54	1.59	1.52
1	4K	213	GLU	CA-CB	5.54	1.63	1.53
1	4L	146	SER	N-CA	5.54	1.53	1.46
1	50	107	THR	CA-C	5.54	1.60	1.52
1	5f	87	HIS	CD2-NE2	5.54	1.44	1.37
1	5J	191	VAL	CA-C	-5.54	1.45	1.52
1	5U	130	TYR	CA-CB	5.54	1.61	1.53
1	6I	10	MET	C-O	-5.54	1.17	1.23
1	6Q	198	CYS	C-N	5.54	1.41	1.33
1	6S	224	PRO	C-N	5.54	1.39	1.33
1	7n	61	GLY	C-N	5.54	1.40	1.33
1	7o	149	SER	N-CA	-5.54	1.39	1.45
1	7H	230	VAL	CA-CB	-5.54	1.47	1.54
1	7J	62	HIS	CE1-NE2	5.54	1.38	1.32
1	85	30	LYS	CA-C	-5.54	1.46	1.52
1	8h	119	THR	N-CA	5.54	1.53	1.46
1	8H	33	SER	C-N	5.54	1.40	1.34
1	8O	168	PHE	CA-C	5.54	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8R	25	LYS	C-N	5.54	1.40	1.33
1	8U	148	THR	CA-C	-5.54	1.46	1.52
1	9l	216	THR	CA-CB	5.54	1.63	1.53
1	9o	99	PRO	CA-CB	-5.54	1.46	1.53
1	9B	58	THR	CA-CB	-5.54	1.44	1.53
1	9E	209	ALA	C-O	5.54	1.30	1.23
1	9I	155	GLN	N-CA	-5.54	1.39	1.46
1	9T	193	ASN	CA-C	-5.54	1.45	1.52
1	ar	13	GLN	C-N	5.54	1.41	1.33
1	aw	179	GLN	C-N	5.54	1.41	1.33
1	b5	97	ARG	C-O	-5.54	1.16	1.23
1	bg	203	LYS	CA-C	5.54	1.60	1.52
1	bm	30	LYS	CA-CB	5.54	1.61	1.53
1	bU	93	PRO	N-CA	5.54	1.53	1.47
1	c4	24	VAL	CA-CB	5.54	1.60	1.54
1	cd	26	VAL	C-N	5.54	1.40	1.33
1	cH	63	GLN	N-CA	5.54	1.53	1.46
1	dn	64	ALA	CA-C	-5.54	1.45	1.52
1	1l	165	VAL	CA-C	-5.54	1.45	1.52
1	dF	117	TRP	CA-CB	5.54	1.62	1.53
1	1m	197	ASP	C-N	5.54	1.41	1.33
1	dN	11	VAL	C-O	-5.54	1.17	1.23
1	dT	27	VAL	C-O	-5.54	1.17	1.24
1	dT	103	ASP	CA-C	5.54	1.59	1.52
1	eb	75	GLU	CA-C	-5.54	1.45	1.52
1	ej	178	SER	C-N	5.54	1.41	1.33
1	eZ	168	PHE	CA-CB	5.54	1.62	1.53
1	fo	162	ARG	N-CA	-5.54	1.39	1.46
1	fI	173	ARG	CZ-NH2	-5.54	1.26	1.33
1	fQ	128	GLU	C-N	-5.54	1.26	1.33
1	fW	197	ASP	CA-C	5.54	1.60	1.52
1	g2	102	SER	C-N	5.54	1.42	1.33
1	w	114	GLN	CA-CB	5.54	1.61	1.53
1	K	101	GLY	CA-C	-5.54	1.45	1.52
1	7	27	VAL	N-CA	5.54	1.53	1.46
1	gb	220	GLY	N-CA	5.54	1.53	1.45
1	1G	37	ILE	CA-CB	5.54	1.61	1.54
1	hl	202	LEU	N-CA	-5.54	1.39	1.46
1	i0	107	THR	CA-C	5.54	1.59	1.52
1	1N	175	GLU	CA-CB	5.54	1.61	1.53
1	il	114	GLN	C-N	5.54	1.40	1.33
1	iw	12	HIS	ND1-CE1	5.54	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iB	157	PRO	C-N	5.54	1.41	1.34
1	iD	222	GLY	CA-C	5.54	1.58	1.51
1	jD	190	LEU	C-N	5.54	1.40	1.33
1	k2	168	PHE	CA-C	5.54	1.59	1.52
1	lB	164	TYR	CA-C	5.54	1.59	1.52
1	2v	92	GLU	CA-CB	5.54	1.62	1.53
1	2C	58	THR	C-O	-5.54	1.17	1.24
1	2I	37	ILE	C-N	5.54	1.41	1.34
1	4d	214	MET	CA-CB	5.54	1.61	1.53
1	4w	126	VAL	CA-CB	5.54	1.61	1.54
1	5v	77	ALA	C-N	-5.54	1.26	1.33
1	65	62	HIS	ND1-CE1	-5.54	1.27	1.32
1	6q	71	GLU	C-N	5.54	1.41	1.33
1	6v	82	ARG	CA-CB	5.54	1.61	1.53
1	6y	82	ARG	CZ-NH2	-5.54	1.26	1.33
1	6I	84	HIS	CA-CB	5.54	1.60	1.53
1	7b	104	ILE	C-N	5.54	1.41	1.33
1	7t	208	ALA	C-N	5.54	1.41	1.33
1	8L	43	LEU	CA-C	5.54	1.60	1.52
1	8M	183	ASN	CA-CB	5.54	1.62	1.53
1	8Z	70	LYS	CA-C	5.54	1.59	1.52
1	b9	22	ALA	CA-C	-5.54	1.45	1.52
1	bl	162	ARG	CD-NE	5.54	1.54	1.46
1	18	196	PRO	CA-CB	-5.54	1.46	1.53
1	c8	35	GLU	CA-CB	5.54	1.63	1.53
1	cm	159	GLU	N-CA	5.54	1.55	1.46
1	cM	146	SER	CA-CB	5.54	1.61	1.53
1	d8	217	ALA	C-N	5.54	1.41	1.33
1	dv	58	THR	CA-CB	-5.54	1.43	1.53
1	dS	135	ILE	CA-CB	-5.54	1.47	1.54
1	eq	101	GLY	N-CA	-5.54	1.39	1.45
1	eu	91	ILE	CA-C	5.54	1.60	1.52
1	1s	80	TRP	CA-CB	5.54	1.61	1.53
1	1u	195	ASN	CA-C	5.54	1.59	1.53
1	f3	70	LYS	CA-CB	5.54	1.61	1.53
1	B	114	GLN	CA-CB	5.54	1.61	1.53
1	H	178	SER	CA-C	-5.54	1.45	1.52
1	gg	141	ILE	CA-CB	-5.54	1.48	1.54
1	gm	21	ASN	CA-CB	5.54	1.62	1.53
1	1J	113	GLU	N-CA	5.54	1.53	1.46
1	hx	49	PRO	CA-CB	-5.54	1.45	1.53
1	hz	96	MET	CA-CB	5.54	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hN	160	PRO	C-N	5.54	1.41	1.33
1	hW	124	ILE	CA-C	5.54	1.57	1.53
1	ih	118	MET	CA-CB	5.54	1.62	1.53
1	ii	34	PRO	CA-CB	-5.54	1.45	1.53
1	im	82	ARG	C-O	-5.54	1.17	1.24
1	ir	89	GLY	C-N	5.54	1.40	1.33
1	iG	110	THR	CB-OG1	-5.54	1.34	1.43
1	iZ	175	GLU	CA-CB	5.54	1.65	1.54
1	j1	84	HIS	CA-CB	5.54	1.59	1.53
1	ja	104	ILE	CA-CB	5.54	1.62	1.54
1	jo	98	GLU	C-O	-5.54	1.16	1.24
1	1W	125	PRO	CA-C	5.54	1.60	1.52
1	k7	91	ILE	CA-CB	-5.54	1.48	1.54
1	kq	208	ALA	CA-C	-5.54	1.47	1.53
1	kw	73	ILE	N-CA	-5.54	1.40	1.46
1	kF	123	PRO	CA-CB	-5.54	1.46	1.53
1	kH	141	ILE	C-N	5.54	1.40	1.33
1	kL	49	PRO	CA-C	5.54	1.60	1.52
1	kW	214	MET	C-O	-5.54	1.17	1.24
1	li	71	GLU	N-CA	5.54	1.53	1.46
1	lA	64	ALA	CA-C	5.54	1.59	1.52
1	lL	123	PRO	CA-CB	5.54	1.61	1.54
1	2d	193	ASN	C-N	5.54	1.40	1.33
1	2y	39	MET	CA-C	-5.54	1.45	1.52
1	31	107	THR	N-CA	-5.54	1.39	1.46
1	3m	228	ALA	CA-C	5.54	1.59	1.52
1	3s	23	TRP	C-N	5.54	1.40	1.33
1	3D	210	THR	N-CA	-5.54	1.39	1.46
1	40	29	GLU	C-O	-5.54	1.17	1.24
1	4d	160	PRO	N-CD	-5.54	1.40	1.47
1	4j	82	ARG	CD-NE	5.54	1.53	1.46
1	4o	73	ILE	CA-C	-5.54	1.46	1.52
1	4q	184	TRP	CD2-CE2	-5.54	1.31	1.41
1	4S	116	GLY	CA-C	-5.54	1.46	1.52
1	4W	165	VAL	CA-CB	5.54	1.61	1.54
1	59	43	LEU	CA-C	5.54	1.60	1.52
1	5c	85	PRO	CA-C	5.54	1.59	1.53
1	5m	183	ASN	N-CA	-5.54	1.39	1.46
1	5q	121	ASN	CA-CB	5.54	1.60	1.53
1	5Q	199	LYS	N-CA	-5.54	1.39	1.46
1	6g	57	ASN	N-CA	-5.54	1.39	1.46
1	6h	175	GLU	N-CA	-5.54	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6j	132	ARG	CA-C	-5.54	1.45	1.52
1	6J	4	GLN	CA-CB	5.54	1.62	1.53
1	6M	35	GLU	C-N	5.54	1.40	1.34
1	6W	143	ARG	CA-C	5.54	1.59	1.52
1	6Y	72	THR	C-O	-5.54	1.17	1.24
1	7b	162	ARG	CD-NE	5.54	1.53	1.46
1	7c	66	MET	C-N	-5.54	1.26	1.33
1	7o	158	LYS	CA-CB	5.54	1.61	1.53
1	7G	72	THR	N-CA	5.54	1.53	1.46
1	7T	51	ASP	CA-C	5.54	1.60	1.52
1	80	189	LEU	CA-C	5.54	1.59	1.52
1	82	101	GLY	N-CA	-5.54	1.39	1.45
1	8f	62	HIS	N-CA	5.54	1.54	1.46
1	8s	143	ARG	CA-CB	5.54	1.62	1.53
1	8P	179	GLN	CA-C	-5.54	1.45	1.52
1	8U	20	LEU	CA-C	-5.54	1.45	1.52
1	9F	1	PRO	C-N	5.54	1.40	1.33
1	9I	111	LEU	CA-C	5.54	1.59	1.52
1	al	190	LEU	CA-C	5.54	1.60	1.52
1	an	222	GLY	N-CA	5.54	1.51	1.45
1	ao	53	ASN	CA-CB	5.54	1.61	1.53
1	aW	79	GLU	C-O	5.54	1.30	1.24
1	17	54	THR	CA-C	-5.54	1.45	1.52
1	br	127	GLY	C-N	5.54	1.41	1.33
1	bw	41	SER	CA-CB	-5.54	1.44	1.53
1	19	194	ALA	CA-CB	5.54	1.62	1.53
1	bZ	91	ILE	CA-C	5.54	1.59	1.52
1	c8	9	GLN	C-N	5.54	1.41	1.33
1	ce	100	ARG	NE-CZ	5.54	1.39	1.33
1	cE	72	THR	N-CA	5.54	1.53	1.46
1	d6	100	ARG	CZ-NH2	-5.54	1.26	1.33
1	de	221	VAL	CA-CB	-5.54	1.47	1.54
1	1o	63	GLN	C-O	-5.54	1.17	1.24
1	eh	231	LEU	CB-CG	5.54	1.64	1.53
1	eK	122	PRO	C-N	-5.54	1.26	1.33
1	ft	182	LYS	N-CA	-5.54	1.39	1.46
1	fZ	153	ILE	CA-CB	5.54	1.61	1.54
1	1B	35	GLU	CA-CB	5.54	1.62	1.53
1	k	128	GLU	CA-CB	5.54	1.61	1.53
1	2	23	TRP	C-O	-5.54	1.17	1.24
1	y	57	ASN	C-N	5.54	1.40	1.33
1	y	77	ALA	C-N	5.54	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	63	GLN	CA-CB	5.54	1.62	1.53
1	gk	132	ARG	N-CA	5.53	1.53	1.46
1	gG	102	SER	CA-C	5.53	1.60	1.52
1	gO	203	LYS	N-CA	5.53	1.52	1.46
1	gX	178	SER	CA-CB	5.53	1.62	1.53
1	1I	33	SER	CA-C	5.53	1.59	1.52
1	hI	222	GLY	CA-C	-5.53	1.43	1.51
1	hP	117	TRP	CA-CB	5.53	1.61	1.53
1	ib	53	ASN	N-CA	5.53	1.53	1.46
1	ik	117	TRP	C-N	5.53	1.41	1.33
1	iy	126	VAL	C-N	5.53	1.41	1.33
1	iA	107	THR	CA-CB	5.53	1.62	1.53
1	iN	45	GLU	CA-CB	5.53	1.61	1.53
1	jl	164	TYR	CG-CD1	5.53	1.50	1.39
1	k8	44	SER	C-N	5.53	1.40	1.33
1	kc	108	THR	CB-OG1	-5.53	1.34	1.43
1	kw	83	LEU	CA-C	5.53	1.60	1.52
1	kD	176	GLN	C-N	5.53	1.41	1.33
1	24	180	GLU	CA-CB	5.53	1.62	1.53
1	kT	71	GLU	CA-C	5.53	1.59	1.52
1	lr	65	ALA	C-O	-5.53	1.17	1.24
1	ls	121	ASN	C-O	-5.53	1.18	1.24
1	lw	104	ILE	CA-C	-5.53	1.45	1.52
1	lx	66	MET	CA-C	5.53	1.59	1.52
1	lF	113	GLU	N-CA	-5.53	1.39	1.46
1	lH	177	ALA	C-N	5.53	1.40	1.33
1	2h	185	MET	CA-C	-5.53	1.45	1.52
1	2i	11	VAL	CA-C	5.53	1.59	1.52
1	2B	176	GLN	C-N	5.53	1.40	1.33
1	2M	34	PRO	N-CA	5.53	1.54	1.47
1	3f	160	PRO	CA-CB	5.53	1.60	1.53
1	3i	51	ASP	CA-CB	5.53	1.62	1.53
1	3J	104	ILE	C-O	-5.53	1.17	1.24
1	3M	66	MET	N-CA	-5.53	1.39	1.46
1	3S	56	LEU	CA-C	-5.53	1.45	1.52
1	4a	87	HIS	CA-C	5.53	1.59	1.52
1	4d	63	GLN	N-CA	5.53	1.53	1.46
1	4j	45	GLU	CA-C	5.53	1.60	1.52
1	4I	178	SER	C-O	-5.53	1.17	1.23
1	4P	104	ILE	CA-C	5.53	1.59	1.52
1	4W	154	ARG	C-O	5.53	1.30	1.23
1	5b	90	PRO	C-N	-5.53	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5z	226	HIS	CA-C	5.53	1.57	1.52
1	5Y	28	GLU	C-O	-5.53	1.17	1.24
1	67	214	MET	C-N	5.53	1.42	1.33
1	6G	115	ILE	C-O	-5.53	1.17	1.24
1	7c	211	LEU	C-N	5.53	1.41	1.33
1	7f	78	ALA	CA-CB	5.53	1.62	1.53
1	8t	90	PRO	CA-C	5.53	1.60	1.52
1	8L	61	GLY	CA-C	5.53	1.60	1.52
1	8P	23	TRP	C-N	5.53	1.40	1.33
1	90	170	LYS	CA-C	-5.53	1.45	1.52
1	94	137	GLY	N-CA	-5.53	1.39	1.45
1	9d	12	HIS	ND1-CE1	5.53	1.38	1.32
1	9l	19	THR	CA-C	-5.53	1.45	1.52
1	9m	146	SER	CA-CB	5.53	1.60	1.53
1	10	165	VAL	C-N	5.53	1.41	1.33
1	ab	211	LEU	C-N	5.53	1.40	1.33
1	aA	140	LYS	N-CA	-5.53	1.39	1.46
1	aJ	175	GLU	CA-CB	5.53	1.63	1.53
1	aX	177	ALA	CA-CB	5.53	1.62	1.53
1	bs	133	TRP	C-O	-5.53	1.17	1.24
1	19	172	LEU	N-CA	5.53	1.52	1.46
1	bC	194	ALA	CA-CB	5.53	1.61	1.53
1	bE	20	LEU	N-CA	-5.53	1.39	1.46
1	bM	78	ALA	CA-CB	5.53	1.62	1.53
1	ch	130	TYR	C-N	5.53	1.41	1.33
1	ck	225	GLY	N-CA	5.53	1.50	1.45
1	cl	211	LEU	CA-C	5.53	1.59	1.52
1	cO	50	GLN	CA-CB	5.53	1.62	1.53
1	cW	58	THR	C-O	-5.53	1.17	1.24
1	1j	210	THR	C-O	-5.53	1.16	1.23
1	dg	50	GLN	C-N	5.53	1.41	1.33
1	dg	64	ALA	C-N	5.53	1.41	1.33
1	dk	117	TRP	CA-C	5.53	1.59	1.52
1	dF	195	ASN	CA-CB	5.53	1.62	1.53
1	e4	220	GLY	C-N	5.53	1.40	1.33
1	ep	95	GLN	CA-C	5.53	1.60	1.52
1	f5	219	GLN	CA-C	5.53	1.60	1.52
1	f7	196	PRO	N-CD	-5.53	1.40	1.47
1	fi	13	GLN	C-O	-5.53	1.17	1.23
1	fi	226	HIS	ND1-CE1	5.53	1.38	1.32
1	fo	132	ARG	C-N	5.53	1.41	1.34
1	fv	172	LEU	CA-C	5.53	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1y	84	HIS	N-CA	-5.53	1.41	1.46
1	fW	159	GLU	CA-C	-5.53	1.47	1.53
1	g6	167	ARG	C-N	5.53	1.41	1.33
1	1B	164	TYR	C-N	5.53	1.40	1.33
1	1	189	LEU	CA-CB	5.53	1.61	1.53
1	l	85	PRO	N-CA	5.53	1.51	1.47
1	y	133	TRP	NE1-CE2	5.53	1.43	1.37
1	A	46	GLY	C-N	5.53	1.41	1.33
1	T	174	ALA	N-CA	-5.53	1.38	1.46
1	gE	52	LEU	CA-C	5.53	1.59	1.52
1	gL	59	VAL	C-O	-5.53	1.17	1.24
1	hY	112	GLN	CA-C	5.53	1.59	1.52
1	i6	88	ALA	C-N	5.53	1.41	1.33
1	j5	194	ALA	CA-C	5.53	1.59	1.52
1	jo	189	LEU	CA-CB	5.53	1.61	1.53
1	jF	171	THR	N-CA	-5.53	1.38	1.46
1	1Z	170	LYS	N-CA	5.53	1.53	1.46
1	kL	92	GLU	CA-CB	5.53	1.61	1.53
1	2O	120	HIS	CA-CB	5.53	1.62	1.53
1	34	57	ASN	CA-C	5.53	1.59	1.52
1	3l	12	HIS	CA-CB	5.53	1.60	1.53
1	3V	21	ASN	N-CA	-5.53	1.39	1.46
1	4k	155	GLN	CA-CB	5.53	1.63	1.53
1	4n	12	HIS	CD2-NE2	5.53	1.44	1.37
1	4n	86	VAL	N-CA	-5.53	1.39	1.46
1	4q	206	GLY	C-N	-5.53	1.28	1.34
1	4K	168	PHE	CA-C	5.53	1.59	1.52
1	51	15	ILE	N-CA	5.53	1.53	1.46
1	5S	77	ALA	C-N	5.53	1.41	1.34
1	6w	167	ARG	CA-CB	5.53	1.61	1.53
1	7i	74	ASN	CA-CB	5.53	1.61	1.53
1	7y	63	GLN	CA-CB	5.53	1.61	1.53
1	8e	38	PRO	CA-CB	5.53	1.61	1.53
1	95	215	MET	CA-CB	5.53	1.62	1.53
1	9K	227	LYS	CA-C	-5.53	1.46	1.52
1	9R	66	MET	N-CA	-5.53	1.39	1.46
1	a1	82	ARG	CA-C	5.53	1.59	1.52
1	ag	125	PRO	CA-CB	5.53	1.58	1.53
1	al	226	HIS	CA-C	5.53	1.60	1.52
1	bv	162	ARG	CD-NE	5.53	1.53	1.46
1	cv	155	GLN	N-CA	5.53	1.52	1.45
1	cM	169	TYR	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1h	118	MET	CA-CB	5.53	1.62	1.53
1	dB	184	TRP	C-N	-5.53	1.26	1.33
1	dJ	189	LEU	C-N	5.53	1.41	1.33
1	dK	165	VAL	C-N	5.53	1.41	1.33
1	eh	6	LEU	C-N	5.53	1.41	1.33
1	eh	134	ILE	CA-CB	-5.53	1.48	1.54
1	em	187	GLU	CA-CB	5.53	1.62	1.53
1	eu	138	LEU	CA-CB	5.53	1.61	1.53
1	eM	140	LYS	CA-C	-5.53	1.45	1.52
1	eX	2	ILE	C-O	-5.53	1.17	1.24
1	f4	146	SER	CB-OG	5.53	1.53	1.42
1	fm	59	VAL	CA-CB	5.53	1.60	1.54
1	gg	192	GLN	CA-C	-5.53	1.45	1.52
1	gr	192	GLN	CA-CB	5.53	1.62	1.53
1	gv	161	PHE	C-O	-5.53	1.17	1.24
1	gR	173	ARG	CA-C	5.53	1.59	1.52
1	h4	120	HIS	CG-ND1	5.53	1.44	1.38
1	1K	102	SER	CA-CB	5.53	1.62	1.53
1	io	104	ILE	CA-C	5.53	1.59	1.52
1	iu	229	ARG	CA-CB	5.53	1.62	1.53
1	iz	87	HIS	CE1-NE2	5.53	1.38	1.32
1	iC	162	ARG	CA-C	5.53	1.60	1.52
1	iD	166	ASP	C-N	5.53	1.41	1.34
1	iE	141	ILE	CA-CB	-5.53	1.48	1.54
1	iG	27	VAL	CA-CB	-5.53	1.48	1.54
1	iJ	214	MET	N-CA	-5.53	1.39	1.46
1	iN	170	LYS	CA-C	5.53	1.59	1.52
1	j9	29	GLU	CA-C	5.53	1.60	1.52
1	jl	135	ILE	C-N	-5.53	1.26	1.34
1	jB	179	GLN	C-N	5.53	1.41	1.33
1	jU	120	HIS	ND1-CE1	5.53	1.38	1.32
1	k7	164	TYR	CA-CB	5.53	1.61	1.53
1	ka	114	GLN	N-CA	5.53	1.53	1.46
1	kt	51	ASP	C-N	5.53	1.41	1.33
1	kG	93	PRO	CA-CB	-5.53	1.46	1.53
1	kJ	4	GLN	CA-C	-5.53	1.45	1.52
1	26	63	GLN	C-O	-5.53	1.17	1.24
1	l9	59	VAL	CA-C	5.53	1.59	1.52
1	2b	69	LEU	CA-C	5.53	1.59	1.52
1	30	84	HIS	CD2-NE2	5.53	1.44	1.37
1	3r	73	ILE	CA-CB	5.53	1.60	1.54
1	3y	125	PRO	CA-C	5.53	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3B	26	VAL	C-N	5.53	1.41	1.34
1	3C	175	GLU	N-CA	5.53	1.53	1.46
1	3D	167	ARG	N-CA	5.53	1.53	1.46
1	3U	97	ARG	C-O	5.53	1.30	1.23
1	4r	181	VAL	N-CA	-5.53	1.39	1.46
1	4D	109	SER	CA-CB	5.53	1.61	1.53
1	4F	54	THR	C-N	5.53	1.41	1.33
1	4J	22	ALA	N-CA	-5.53	1.39	1.46
1	4K	12	HIS	CG-CD2	5.53	1.42	1.35
1	4Y	22	ALA	N-CA	-5.53	1.39	1.46
1	54	230	VAL	N-CA	-5.53	1.39	1.46
1	5v	185	MET	CA-CB	5.53	1.62	1.53
1	5x	192	GLN	CA-C	5.53	1.60	1.52
1	5Y	184	TRP	CA-C	5.53	1.59	1.52
1	63	144	MET	CA-CB	5.53	1.61	1.53
1	66	228	ALA	CA-CB	5.53	1.62	1.53
1	6m	39	MET	N-CA	5.53	1.52	1.46
1	6q	133	TRP	N-CA	-5.53	1.39	1.46
1	6w	84	HIS	CD2-NE2	5.53	1.44	1.37
1	6J	171	THR	C-N	5.53	1.41	1.34
1	6Q	148	THR	CA-C	-5.53	1.45	1.52
1	7c	67	GLN	C-N	5.53	1.41	1.33
1	7m	162	ARG	CA-C	5.53	1.59	1.52
1	7X	40	PHE	CA-CB	5.53	1.62	1.53
1	87	87	HIS	ND1-CE1	5.53	1.38	1.32
1	8j	187	GLU	N-CA	5.53	1.52	1.46
1	8A	196	PRO	CA-C	5.53	1.60	1.52
1	8Q	125	PRO	CA-C	5.53	1.57	1.53
1	9f	120	HIS	CG-CD2	5.53	1.42	1.35
1	9u	173	ARG	CA-C	-5.53	1.45	1.52
1	9D	17	PRO	C-N	5.53	1.41	1.33
1	9G	78	ALA	C-O	-5.53	1.17	1.24
1	ah	30	LYS	N-CA	5.53	1.53	1.46
1	av	52	LEU	C-O	-5.53	1.17	1.24
1	av	148	THR	CA-CB	-5.53	1.45	1.53
1	aC	132	ARG	N-CA	-5.53	1.39	1.46
1	13	95	GLN	CA-C	-5.53	1.45	1.52
1	aE	126	VAL	C-N	5.53	1.40	1.33
1	b5	229	ARG	CD-NE	5.53	1.53	1.46
1	16	44	SER	C-N	5.53	1.41	1.33
1	c0	78	ALA	C-N	-5.53	1.26	1.33
1	cb	123	PRO	CA-C	-5.53	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cl	11	VAL	CA-C	-5.53	1.45	1.52
1	cy	70	LYS	N-CA	5.53	1.53	1.46
1	cH	92	GLU	N-CA	-5.53	1.38	1.46
1	d5	18	ARG	N-CA	-5.53	1.39	1.46
1	d8	148	THR	C-O	-5.53	1.17	1.24
1	de	102	SER	CA-C	5.53	1.59	1.52
1	dj	138	LEU	N-CA	-5.53	1.39	1.46
1	dp	209	ALA	CA-C	5.53	1.59	1.52
1	dw	178	SER	C-N	5.53	1.41	1.33
1	dH	118	MET	CA-CB	5.53	1.62	1.53
1	dH	122	PRO	N-CA	-5.53	1.37	1.47
1	dP	213	GLU	CA-CB	5.53	1.61	1.53
1	dR	179	GLN	CD-NE2	5.53	1.44	1.33
1	e0	20	LEU	C-N	5.53	1.41	1.33
1	e2	92	GLU	CA-CB	5.53	1.62	1.53
1	e4	174	ALA	N-CA	-5.53	1.39	1.46
1	eb	163	ASP	CA-CB	5.53	1.61	1.53
1	ek	80	TRP	CA-CB	5.53	1.61	1.53
1	eP	23	TRP	NE1-CE2	-5.53	1.31	1.37
1	fa	115	ILE	CA-C	5.53	1.60	1.52
1	fk	190	LEU	C-N	5.53	1.40	1.33
1	fl	164	TYR	CA-CB	5.53	1.62	1.53
1	fl	188	THR	CA-CB	5.53	1.62	1.53
1	fm	96	MET	C-N	5.53	1.40	1.33
1	fH	87	HIS	ND1-CE1	5.53	1.38	1.32
1	fS	210	THR	CA-CB	-5.53	1.44	1.53
1	D	123	PRO	N-CA	5.53	1.53	1.47
1	4	42	ALA	CA-CB	5.53	1.62	1.53
1	6	80	TRP	N-CA	-5.53	1.39	1.46
1	6	182	LYS	N-CA	5.53	1.52	1.46
1	ge	173	ARG	CD-NE	5.53	1.53	1.46
1	gj	187	GLU	CA-CB	5.53	1.62	1.53
1	hi	128	GLU	C-N	5.53	1.40	1.33
1	1J	38	PRO	C-N	5.53	1.41	1.33
1	hu	198	CYS	N-CA	5.53	1.52	1.46
1	hW	178	SER	CA-CB	5.53	1.62	1.53
1	1N	114	GLN	CA-CB	5.53	1.61	1.53
1	i8	208	ALA	C-N	5.53	1.40	1.33
1	iA	7	GLN	CA-CB	5.53	1.61	1.53
1	j9	226	HIS	CD2-NE2	5.53	1.44	1.37
1	kv	165	VAL	CA-C	-5.53	1.46	1.52
1	lp	137	GLY	N-CA	5.53	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lH	84	HIS	C-N	5.53	1.41	1.33
1	2j	182	LYS	N-CA	-5.53	1.39	1.46
1	2u	26	VAL	CA-CB	5.53	1.62	1.54
1	3d	78	ALA	N-CA	-5.53	1.39	1.46
1	3z	226	HIS	CE1-NE2	-5.53	1.27	1.32
1	5y	208	ALA	CA-C	5.53	1.60	1.53
1	5C	81	ASP	N-CA	-5.53	1.39	1.46
1	6y	162	ARG	CA-CB	5.53	1.62	1.53
1	6H	193	ASN	CA-C	5.53	1.60	1.52
1	6W	67	GLN	CA-CB	5.53	1.61	1.53
1	8o	203	LYS	CA-C	5.53	1.59	1.52
1	8N	44	SER	C-N	5.53	1.41	1.33
1	8V	49	PRO	N-CD	-5.53	1.40	1.47
1	9i	84	HIS	ND1-CE1	5.53	1.38	1.32
1	9z	62	HIS	CG-ND1	-5.53	1.32	1.38
1	9Q	82	ARG	CZ-NH1	-5.53	1.25	1.32
1	9U	19	THR	N-CA	-5.53	1.39	1.46
1	14	12	HIS	ND1-CE1	5.53	1.38	1.32
1	cd	112	GLN	CA-C	5.53	1.60	1.52
1	cw	130	TYR	CA-CB	5.53	1.62	1.53
1	cx	40	PHE	CA-CB	5.53	1.61	1.53
1	cI	102	SER	N-CA	5.53	1.53	1.46
1	cP	100	ARG	CA-CB	5.53	1.61	1.53
1	db	10	MET	N-CA	-5.53	1.38	1.46
1	dm	184	TRP	CZ2-CH2	5.53	1.47	1.37
1	dG	200	THR	CA-C	5.53	1.59	1.52
1	dH	229	ARG	CD-NE	5.53	1.53	1.46
1	es	191	VAL	N-CA	5.53	1.53	1.46
1	eu	60	GLY	CA-C	-5.53	1.44	1.51
1	t	13	GLN	CA-C	5.53	1.59	1.52
1	8	84	HIS	CD2-NE2	5.53	1.44	1.37
1	gd	110	THR	C-O	-5.53	1.16	1.23
1	gC	216	THR	CA-CB	5.53	1.62	1.53
1	gT	196	PRO	CA-C	-5.53	1.44	1.52
1	gX	37	ILE	CA-C	5.53	1.57	1.52
1	hK	191	VAL	C-N	5.53	1.41	1.33
1	i5	17	PRO	CA-CB	5.53	1.61	1.53
1	ia	31	ALA	N-CA	-5.53	1.39	1.46
1	ig	146	SER	N-CA	5.53	1.51	1.46
1	1R	9	GLN	CA-C	5.53	1.60	1.52
1	iX	20	LEU	CB-CG	5.53	1.64	1.53
1	j1	96	MET	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j4	49	PRO	CA-CB	-5.53	1.46	1.53
1	jd	139	ASN	N-CA	-5.53	1.39	1.46
1	k5	173	ARG	CD-NE	5.53	1.53	1.46
1	kL	152	ASP	CA-CB	5.53	1.63	1.53
1	kR	99	PRO	CA-CB	5.53	1.61	1.53
1	l2	140	LYS	C-N	5.53	1.40	1.33
1	lh	45	GLU	N-CA	5.53	1.53	1.46
1	ls	140	LYS	CA-CB	5.53	1.62	1.53
1	lL	126	VAL	CA-CB	-5.53	1.47	1.54
1	2K	71	GLU	N-CA	-5.53	1.39	1.46
1	2P	229	ARG	C-N	5.53	1.40	1.33
1	2S	144	MET	CA-C	5.53	1.60	1.52
1	35	41	SER	C-O	-5.53	1.17	1.24
1	39	77	ALA	CA-CB	-5.53	1.44	1.53
1	3a	218	CYS	CA-C	-5.53	1.45	1.52
1	3f	158	LYS	CA-CB	5.53	1.62	1.53
1	3D	120	HIS	CE1-NE2	5.53	1.38	1.32
1	3K	23	TRP	CA-CB	5.53	1.61	1.53
1	3O	12	HIS	CE1-NE2	5.53	1.38	1.32
1	3V	62	HIS	N-CA	-5.53	1.39	1.46
1	3Z	109	SER	CA-CB	5.53	1.63	1.53
1	48	192	GLN	CA-C	5.53	1.60	1.52
1	4n	120	HIS	CE1-NE2	-5.53	1.27	1.32
1	4p	7	GLN	CA-CB	5.53	1.61	1.53
1	4p	189	LEU	CA-C	-5.53	1.45	1.52
1	4v	24	VAL	CA-CB	-5.53	1.48	1.54
1	4w	142	VAL	C-N	5.53	1.40	1.33
1	4S	141	ILE	CA-CB	-5.53	1.47	1.54
1	52	87	HIS	CA-C	5.53	1.59	1.52
1	53	88	ALA	N-CA	-5.53	1.40	1.46
1	5a	224	PRO	CA-C	5.53	1.59	1.52
1	6g	111	LEU	N-CA	5.53	1.53	1.46
1	6l	66	MET	N-CA	-5.53	1.39	1.46
1	6r	86	VAL	C-O	5.53	1.30	1.23
1	6P	131	LYS	N-CA	5.53	1.53	1.46
1	6T	168	PHE	C-N	5.53	1.41	1.33
1	77	197	ASP	CA-CB	5.53	1.61	1.53
1	7W	204	ALA	CA-CB	5.53	1.61	1.53
1	8b	97	ARG	CD-NE	5.53	1.53	1.46
1	8e	221	VAL	N-CA	-5.53	1.39	1.46
1	8n	84	HIS	CA-CB	5.53	1.62	1.52
1	8o	87	HIS	CB-CG	-5.53	1.42	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	181	VAL	CA-CB	-5.53	1.47	1.54
1	8v	211	LEU	N-CA	-5.53	1.39	1.46
1	8N	188	THR	CA-C	-5.53	1.45	1.52
1	8S	182	LYS	N-CA	5.53	1.53	1.46
1	9n	84	HIS	CA-C	5.53	1.58	1.52
1	9A	125	PRO	CA-C	5.53	1.60	1.52
1	9F	139	ASN	CA-C	5.53	1.60	1.52
1	9P	87	HIS	CG-CD2	5.53	1.42	1.35
1	a4	187	GLU	C-N	-5.53	1.26	1.33
1	ag	204	ALA	C-N	5.53	1.41	1.34
1	ax	25	LYS	N-CA	-5.53	1.38	1.46
1	b0	71	GLU	N-CA	-5.53	1.39	1.46
1	b2	161	PHE	CA-C	5.53	1.59	1.52
1	17	66	MET	N-CA	-5.53	1.39	1.46
1	c3	26	VAL	CA-CB	5.53	1.61	1.54
1	ce	200	THR	C-O	-5.53	1.17	1.24
1	ci	105	ALA	C-N	5.53	1.40	1.33
1	cx	197	ASP	CA-CB	-5.53	1.44	1.53
1	cL	226	HIS	CE1-NE2	5.53	1.38	1.32
1	cU	209	ALA	CA-C	5.53	1.59	1.52
1	cV	216	THR	C-N	5.53	1.41	1.33
1	1i	163	ASP	C-N	5.53	1.41	1.33
1	d8	92	GLU	C-N	5.53	1.39	1.33
1	dh	70	LYS	N-CA	-5.53	1.39	1.46
1	di	76	GLU	CA-C	5.53	1.60	1.52
1	1m	173	ARG	NE-CZ	5.53	1.39	1.33
1	dV	130	TYR	C-N	5.53	1.41	1.33
1	e1	79	GLU	CA-CB	5.53	1.61	1.53
1	ek	84	HIS	CB-CG	5.53	1.57	1.50
1	em	206	GLY	C-O	5.53	1.31	1.24
1	f1	211	LEU	CA-CB	5.53	1.62	1.53
1	4	12	HIS	CA-C	-5.53	1.46	1.52
1	go	84	HIS	CE1-NE2	5.53	1.38	1.32
1	gy	123	PRO	CA-CB	5.53	1.61	1.53
1	gN	164	TYR	C-N	5.53	1.40	1.33
1	gU	83	LEU	CA-C	5.53	1.59	1.52
1	gX	229	ARG	CD-NE	5.53	1.53	1.46
1	he	196	PRO	N-CD	-5.53	1.40	1.47
1	1I	230	VAL	C-N	5.53	1.41	1.33
1	hL	36	VAL	CA-C	5.53	1.59	1.52
1	hL	44	SER	CA-C	-5.53	1.46	1.52
1	ic	67	GLN	N-CA	-5.53	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1P	167	ARG	CA-C	-5.53	1.45	1.52
1	iq	132	ARG	CZ-NH2	-5.53	1.26	1.33
1	it	219	GLN	CA-C	5.53	1.60	1.52
1	iy	87	HIS	CA-C	5.53	1.59	1.52
1	iB	149	SER	CA-C	-5.53	1.46	1.52
1	iT	84	HIS	CE1-NE2	5.53	1.38	1.32
1	iX	13	GLN	C-N	5.53	1.41	1.33
1	j4	135	ILE	CA-C	5.53	1.60	1.52
1	ji	72	THR	C-O	-5.53	1.17	1.24
1	jk	224	PRO	N-CD	-5.53	1.40	1.47
1	jr	219	GLN	N-CA	5.53	1.53	1.46
1	jv	141	ILE	C-N	5.53	1.40	1.33
1	kj	192	GLN	CA-C	5.53	1.59	1.52
1	kp	57	ASN	CA-C	5.53	1.60	1.52
1	kq	23	TRP	CA-CB	-5.53	1.44	1.53
1	kE	210	THR	N-CA	5.53	1.53	1.46
1	kP	228	ALA	C-N	5.53	1.41	1.33
1	kS	133	TRP	CA-CB	5.53	1.62	1.53
1	26	105	ALA	N-CA	5.53	1.53	1.46
1	lm	181	VAL	C-N	5.53	1.41	1.33
1	lx	204	ALA	C-N	5.53	1.41	1.33
1	lC	67	GLN	N-CA	5.53	1.53	1.46
1	2n	144	MET	CA-CB	5.53	1.61	1.53
1	2q	142	VAL	C-O	-5.53	1.17	1.24
1	2C	215	MET	N-CA	5.53	1.53	1.46
1	2H	167	ARG	CD-NE	5.53	1.53	1.46
1	2N	105	ALA	C-N	5.53	1.40	1.33
1	2P	137	GLY	CA-C	5.53	1.58	1.52
1	3M	181	VAL	CA-CB	-5.53	1.48	1.54
1	4p	158	LYS	CA-C	5.53	1.60	1.52
1	4K	45	GLU	CA-CB	5.53	1.59	1.52
1	4Y	3	VAL	CA-C	5.53	1.59	1.52
1	55	207	PRO	C-O	5.53	1.31	1.24
1	5i	54	THR	CA-CB	5.53	1.61	1.53
1	5J	92	GLU	C-N	-5.53	1.29	1.33
1	60	84	HIS	ND1-CE1	5.53	1.38	1.32
1	6t	131	LYS	N-CA	-5.53	1.39	1.46
1	6B	28	GLU	CA-C	-5.53	1.45	1.52
1	6J	19	THR	N-CA	-5.53	1.39	1.46
1	74	32	PHE	CA-CB	5.53	1.60	1.53
1	7y	173	ARG	CA-C	5.53	1.60	1.52
1	7A	221	VAL	CA-C	5.53	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7E	155	GLN	C-N	5.53	1.41	1.33
1	7T	21	ASN	C-O	-5.53	1.17	1.24
1	8e	44	SER	CA-C	-5.53	1.44	1.52
1	9c	130	TYR	CA-C	5.53	1.60	1.52
1	9e	81	ASP	CA-C	-5.53	1.45	1.52
1	9j	155	GLN	N-CA	-5.53	1.39	1.46
1	9B	80	TRP	NE1-CE2	5.53	1.43	1.37
1	a1	132	ARG	N-CA	5.53	1.53	1.46
1	a8	150	ILE	CA-CB	-5.53	1.46	1.54
1	15	169	TYR	N-CA	5.53	1.53	1.46
1	b2	164	TYR	CA-CB	5.53	1.62	1.53
1	bm	45	GLU	CA-C	5.53	1.59	1.52
1	bE	55	MET	CA-CB	5.53	1.62	1.53
1	c5	87	HIS	ND1-CE1	5.53	1.38	1.32
1	1c	208	ALA	CA-C	-5.53	1.45	1.52
1	c7	167	ARG	CZ-NH1	-5.53	1.25	1.32
1	cf	225	GLY	C-N	5.53	1.41	1.33
1	cn	186	THR	CA-CB	5.53	1.61	1.53
1	cO	93	PRO	CA-CB	-5.53	1.46	1.53
1	cP	37	ILE	N-CA	-5.53	1.40	1.46
1	d3	12	HIS	CD2-NE2	5.53	1.44	1.37
1	df	87	HIS	CB-CG	5.53	1.57	1.50
1	dt	168	PHE	C-N	5.53	1.41	1.33
1	1l	87	HIS	C-N	5.53	1.40	1.33
1	dy	167	ARG	NE-CZ	-5.53	1.26	1.33
1	dO	104	ILE	C-N	5.53	1.42	1.33
1	dT	184	TRP	C-N	5.53	1.41	1.34
1	dW	186	THR	CA-CB	-5.53	1.44	1.53
1	ei	92	GLU	CA-C	5.53	1.59	1.53
1	eJ	76	GLU	CA-CB	5.53	1.61	1.53
1	eJ	175	GLU	CA-C	-5.53	1.46	1.52
1	eR	52	LEU	C-N	5.53	1.41	1.33
1	eX	206	GLY	C-O	-5.53	1.16	1.24
1	eY	189	LEU	CA-C	5.53	1.60	1.52
1	f2	67	GLN	CA-CB	5.53	1.61	1.53
1	fa	107	THR	C-N	5.53	1.41	1.33
1	fv	113	GLU	CA-CB	5.53	1.61	1.53
1	fy	24	VAL	CA-C	-5.53	1.45	1.52
1	fK	132	ARG	CA-CB	5.53	1.61	1.53
1	t	170	LYS	C-N	5.53	1.41	1.33
1	T	130	TYR	CA-CB	5.53	1.62	1.53
1	gQ	126	VAL	CA-CB	5.52	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gQ	184	TRP	C-N	5.52	1.41	1.33
1	hp	21	ASN	CA-C	-5.52	1.45	1.52
1	hz	192	GLN	CA-C	5.52	1.60	1.52
1	iM	36	VAL	C-N	5.52	1.42	1.33
1	1U	18	ARG	N-CA	-5.52	1.39	1.46
1	jH	187	GLU	C-N	5.52	1.41	1.33
1	jV	100	ARG	CD-NE	5.52	1.53	1.46
1	k5	229	ARG	CD-NE	5.52	1.53	1.46
1	kf	4	GLN	N-CA	-5.52	1.38	1.46
1	ku	125	PRO	C-N	5.52	1.40	1.33
1	kM	37	ILE	C-O	-5.52	1.19	1.24
1	l2	143	ARG	CA-C	-5.52	1.45	1.52
1	2r	120	HIS	CE1-NE2	5.52	1.38	1.32
1	3o	93	PRO	CA-C	5.52	1.60	1.52
1	3Z	132	ARG	CD-NE	5.52	1.53	1.46
1	5r	92	GLU	CA-CB	5.52	1.59	1.54
1	6k	162	ARG	CA-C	5.52	1.59	1.52
1	7L	26	VAL	C-N	5.52	1.40	1.33
1	9h	130	TYR	CA-CB	5.52	1.61	1.53
1	9K	203	LYS	CA-CB	5.52	1.61	1.53
1	9Q	216	THR	CA-C	-5.52	1.45	1.52
1	9S	102	SER	N-CA	-5.52	1.39	1.46
1	ah	226	HIS	CA-C	-5.52	1.45	1.52
1	aQ	193	ASN	C-O	-5.52	1.16	1.24
1	bq	84	HIS	CB-CG	5.52	1.57	1.50
1	18	166	ASP	CA-C	5.52	1.59	1.52
1	c9	39	MET	C-N	-5.52	1.26	1.33
1	e1	154	ARG	C-N	5.52	1.40	1.33
1	eB	190	LEU	N-CA	-5.52	1.39	1.46
1	f1	229	ARG	CA-C	-5.52	1.45	1.52
1	1v	67	GLN	CA-C	5.52	1.59	1.52
1	fA	170	LYS	C-O	-5.52	1.17	1.24
1	m	224	PRO	N-CA	-5.52	1.40	1.47
1	H	210	THR	N-CA	5.52	1.53	1.45
1	gd	173	ARG	CA-C	5.52	1.59	1.52
1	gv	52	LEU	C-N	5.52	1.41	1.33
1	gB	30	LYS	CA-CB	5.52	1.61	1.54
1	gI	184	TRP	CA-CB	5.52	1.62	1.53
1	gV	88	ALA	C-N	5.52	1.41	1.33
1	h4	229	ARG	CD-NE	5.52	1.53	1.46
1	1H	157	PRO	CA-C	-5.52	1.44	1.52
1	h9	102	SER	C-N	5.52	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hm	44	SER	N-CA	5.52	1.52	1.46
1	1L	210	THR	CA-C	5.52	1.59	1.52
1	1M	52	LEU	CA-C	-5.52	1.45	1.52
1	ic	120	HIS	CA-CB	5.52	1.62	1.53
1	ie	68	MET	N-CA	-5.52	1.39	1.46
1	il	17	PRO	N-CA	-5.52	1.40	1.47
1	it	82	ARG	C-N	5.52	1.41	1.33
1	iN	162	ARG	CD-NE	5.52	1.53	1.46
1	jh	121	ASN	N-CA	-5.52	1.39	1.46
1	jA	152	ASP	CA-C	5.52	1.59	1.52
1	jB	121	ASN	CA-C	-5.52	1.46	1.52
1	k0	135	ILE	CB-CG1	5.52	1.64	1.53
1	kt	94	GLY	CA-C	5.52	1.59	1.51
1	kW	160	PRO	C-N	5.52	1.41	1.33
1	lb	65	ALA	CA-C	-5.52	1.45	1.52
1	lc	164	TYR	CA-C	5.52	1.59	1.52
1	ln	77	ALA	CA-CB	5.52	1.61	1.53
1	lt	190	LEU	C-N	5.52	1.40	1.33
1	lA	92	GLU	N-CA	5.52	1.53	1.45
1	lI	227	LYS	C-O	-5.52	1.17	1.24
1	2f	84	HIS	ND1-CE1	5.52	1.38	1.32
1	2x	35	GLU	CA-C	5.52	1.60	1.52
1	2K	62	HIS	CD2-NE2	5.52	1.44	1.37
1	33	15	ILE	CA-C	5.52	1.59	1.52
1	39	71	GLU	C-N	5.52	1.41	1.33
1	3b	48	THR	CA-C	5.52	1.60	1.52
1	3c	184	TRP	NE1-CE2	-5.52	1.31	1.37
1	3g	189	LEU	N-CA	-5.52	1.39	1.46
1	3k	59	VAL	C-O	5.52	1.29	1.24
1	3z	173	ARG	C-O	5.52	1.30	1.24
1	3K	221	VAL	CA-CB	-5.52	1.48	1.54
1	3O	161	PHE	CA-CB	5.52	1.62	1.53
1	3Z	146	SER	N-CA	5.52	1.52	1.45
1	47	10	MET	CA-C	-5.52	1.45	1.52
1	4s	8	GLY	CA-C	-5.52	1.44	1.51
1	5x	123	PRO	C-N	-5.52	1.27	1.33
1	5J	143	ARG	CA-CB	5.52	1.62	1.53
1	5M	20	LEU	C-N	5.52	1.41	1.33
1	5V	218	CYS	CA-CB	5.52	1.62	1.53
1	6i	154	ARG	CZ-NH2	-5.52	1.26	1.33
1	6k	125	PRO	CA-CB	5.52	1.57	1.53
1	6v	226	HIS	CG-ND1	5.52	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6S	82	ARG	N-CA	-5.52	1.39	1.46
1	7o	211	LEU	C-N	5.52	1.41	1.33
1	7s	134	ILE	CB-CG1	5.52	1.64	1.53
1	7D	103	ASP	CA-CB	5.52	1.62	1.53
1	7U	37	ILE	C-O	-5.52	1.17	1.24
1	85	111	LEU	CA-CB	5.52	1.62	1.53
1	87	21	ASN	CA-CB	5.52	1.61	1.53
1	89	140	LYS	C-N	5.52	1.40	1.33
1	8T	84	HIS	CG-CD2	-5.52	1.29	1.35
1	8T	222	GLY	C-N	5.52	1.41	1.33
1	96	179	GLN	CA-CB	5.52	1.61	1.53
1	9e	110	THR	N-CA	5.52	1.52	1.46
1	9l	219	GLN	CA-CB	5.52	1.60	1.53
1	9E	95	GLN	C-N	5.52	1.41	1.33
1	9I	162	ARG	C-O	-5.52	1.17	1.24
1	ai	120	HIS	CG-ND1	-5.52	1.32	1.38
1	14	96	MET	CA-C	5.52	1.59	1.52
1	aO	58	THR	N-CA	-5.52	1.38	1.46
1	bh	70	LYS	CA-C	5.52	1.59	1.52
1	bO	125	PRO	N-CD	-5.52	1.40	1.47
1	bU	189	LEU	CA-C	5.52	1.59	1.52
1	cI	7	GLN	CA-C	5.52	1.59	1.52
1	1h	47	ALA	CA-C	5.52	1.59	1.52
1	di	96	MET	CA-CB	5.52	1.61	1.53
1	dE	27	VAL	CA-CB	5.52	1.60	1.54
1	dR	40	PHE	C-N	5.52	1.41	1.33
1	e7	32	PHE	C-N	5.52	1.39	1.33
1	ee	187	GLU	CA-C	5.52	1.59	1.52
1	eA	51	ASP	CA-C	5.52	1.59	1.52
1	eQ	136	LEU	CA-C	5.52	1.60	1.52
1	eS	74	ASN	N-CA	-5.52	1.39	1.46
1	eZ	58	THR	C-O	-5.52	1.17	1.24
1	fe	134	ILE	C-N	5.52	1.40	1.33
1	fv	25	LYS	CA-C	5.52	1.59	1.52
1	1A	188	THR	CA-C	-5.52	1.45	1.52
1	l	62	HIS	CG-CD2	-5.52	1.29	1.35
1	m	32	PHE	C-N	5.52	1.39	1.32
1	m	124	ILE	CA-C	5.52	1.57	1.53
1	y	210	THR	C-O	-5.52	1.16	1.23
1	5	27	VAL	N-CA	-5.52	1.39	1.46
1	ge	80	TRP	CA-CB	5.52	1.62	1.53
1	gv	27	VAL	N-CA	-5.52	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hi	182	LYS	C-O	-5.52	1.17	1.24
1	i0	183	ASN	C-N	5.52	1.40	1.33
1	j4	134	ILE	C-N	5.52	1.40	1.33
1	jH	66	MET	N-CA	5.52	1.53	1.46
1	k7	11	VAL	CA-CB	-5.52	1.47	1.54
1	k9	43	LEU	CA-C	5.52	1.60	1.52
1	kv	80	TRP	NE1-CE2	-5.52	1.31	1.37
1	kC	98	GLU	C-N	5.52	1.40	1.33
1	2c	151	LEU	C-N	5.52	1.41	1.33
1	32	226	HIS	CD2-NE2	5.52	1.44	1.37
1	3n	144	MET	N-CA	5.52	1.53	1.46
1	3s	20	LEU	CA-CB	5.52	1.62	1.53
1	43	128	GLU	CA-CB	5.52	1.61	1.53
1	4D	165	VAL	C-N	5.52	1.41	1.33
1	4J	55	MET	CA-CB	5.52	1.61	1.53
1	50	68	MET	CA-C	-5.52	1.45	1.52
1	5T	52	LEU	CA-C	5.52	1.59	1.52
1	63	99	PRO	N-CD	5.52	1.55	1.47
1	6h	208	ALA	CA-CB	5.52	1.61	1.53
1	6y	134	ILE	CA-C	5.52	1.59	1.52
1	6M	100	ARG	CA-CB	5.52	1.62	1.53
1	6P	190	LEU	C-O	-5.52	1.17	1.24
1	7z	95	GLN	CA-CB	5.52	1.62	1.53
1	8y	168	PHE	C-N	5.52	1.42	1.33
1	9x	79	GLU	C-N	5.52	1.41	1.33
1	bx	21	ASN	C-O	5.52	1.30	1.24
1	bE	18	ARG	CD-NE	5.52	1.53	1.46
1	bJ	15	ILE	C-N	5.52	1.42	1.33
1	c8	6	LEU	N-CA	-5.52	1.39	1.46
1	cv	173	ARG	C-N	5.52	1.40	1.33
1	dp	12	HIS	CA-CB	5.52	1.61	1.53
1	ee	110	THR	CA-C	-5.52	1.45	1.53
1	ek	145	TYR	C-N	5.52	1.41	1.33
1	em	129	ILE	C-N	5.52	1.41	1.33
1	et	38	PRO	N-CD	-5.52	1.40	1.47
1	f4	211	LEU	N-CA	-5.52	1.39	1.46
1	fp	198	CYS	CA-CB	5.52	1.61	1.53
1	fv	58	THR	CB-OG1	-5.52	1.34	1.43
1	fy	118	MET	CA-C	-5.52	1.45	1.52
1	j	63	GLN	CA-CB	5.52	1.62	1.53
1	r	79	GLU	C-N	5.52	1.40	1.33
1	s	144	MET	CA-C	5.52	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	11	VAL	CA-CB	-5.52	1.47	1.54
1	H	107	THR	N-CA	-5.52	1.39	1.46
1	4	93	PRO	CA-C	-5.52	1.45	1.52
1	ge	41	SER	C-N	5.52	1.41	1.33
1	gi	114	GLN	CA-C	5.52	1.59	1.52
1	gu	173	ARG	C-N	5.52	1.41	1.33
1	gz	120	HIS	ND1-CE1	5.52	1.38	1.32
1	gD	6	LEU	CA-C	5.52	1.59	1.52
1	gI	174	ALA	CA-C	5.52	1.59	1.52
1	gP	134	ILE	CA-CB	-5.52	1.46	1.54
1	hg	46	GLY	CA-C	-5.52	1.44	1.51
1	hi	225	GLY	C-N	5.52	1.41	1.33
1	hZ	161	PHE	N-CA	5.52	1.53	1.46
1	i6	40	PHE	CA-CB	5.52	1.62	1.53
1	ip	213	GLU	CA-C	-5.52	1.46	1.52
1	1Q	68	MET	C-N	5.52	1.40	1.33
1	iz	230	VAL	CA-CB	-5.52	1.47	1.54
1	iK	112	GLN	CA-CB	5.52	1.61	1.53
1	iP	51	ASP	N-CA	-5.52	1.39	1.46
1	iT	177	ALA	CA-C	5.52	1.60	1.52
1	j0	127	GLY	N-CA	-5.52	1.38	1.45
1	js	95	GLN	CA-CB	5.52	1.61	1.53
1	jN	85	PRO	N-CA	-5.52	1.40	1.47
1	jV	224	PRO	N-CD	-5.52	1.40	1.47
1	20	117	TRP	CA-CB	5.52	1.61	1.53
1	kx	126	VAL	C-N	5.52	1.41	1.33
1	l0	87	HIS	C-O	-5.52	1.16	1.23
1	l1	137	GLY	N-CA	5.52	1.52	1.45
1	ll	122	PRO	C-N	5.52	1.40	1.33
1	lF	201	ILE	N-CA	-5.52	1.40	1.46
1	lH	183	ASN	C-N	5.52	1.40	1.33
1	lJ	9	GLN	CA-C	-5.52	1.45	1.53
1	2f	96	MET	C-N	5.52	1.40	1.33
1	2j	26	VAL	N-CA	-5.52	1.40	1.46
1	2n	143	ARG	CA-CB	5.52	1.61	1.53
1	2s	147	PRO	N-CD	-5.52	1.40	1.47
1	2y	61	GLY	N-CA	5.52	1.51	1.45
1	2W	222	GLY	CA-C	-5.52	1.44	1.51
1	3f	28	GLU	CA-C	5.52	1.60	1.52
1	3f	174	ALA	C-N	5.52	1.41	1.33
1	3o	76	GLU	CA-C	5.52	1.59	1.52
1	3y	211	LEU	CA-CB	5.52	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3F	207	PRO	C-N	5.52	1.40	1.33
1	3I	56	LEU	CA-CB	5.52	1.62	1.53
1	3Q	100	ARG	CZ-NH1	-5.52	1.25	1.32
1	45	226	HIS	CG-ND1	5.52	1.44	1.38
1	47	172	LEU	CA-C	-5.52	1.45	1.52
1	49	29	GLU	N-CA	-5.52	1.39	1.46
1	4e	87	HIS	ND1-CE1	5.52	1.38	1.32
1	4O	80	TRP	CA-CB	5.52	1.61	1.53
1	54	23	TRP	N-CA	-5.52	1.40	1.46
1	5b	84	HIS	ND1-CE1	5.52	1.38	1.32
1	5f	116	GLY	C-N	5.52	1.41	1.33
1	5r	5	ASN	N-CA	5.52	1.53	1.46
1	5Q	33	SER	CA-C	5.52	1.57	1.52
1	5Y	25	LYS	C-N	5.52	1.40	1.33
1	6s	15	ILE	C-N	5.52	1.41	1.33
1	72	134	ILE	C-O	-5.52	1.17	1.24
1	79	69	LEU	C-N	5.52	1.41	1.33
1	7c	6	LEU	CA-CB	5.52	1.61	1.53
1	7n	87	HIS	CE1-NE2	5.52	1.38	1.32
1	7w	150	ILE	C-N	5.52	1.41	1.34
1	7S	52	LEU	N-CA	5.52	1.53	1.46
1	7T	189	LEU	C-N	5.52	1.40	1.33
1	8e	84	HIS	CA-CB	5.52	1.62	1.53
1	8O	100	ARG	CA-C	-5.52	1.45	1.53
1	92	105	ALA	C-N	5.52	1.40	1.33
1	9d	161	PHE	CA-C	5.52	1.59	1.52
1	9t	64	ALA	C-N	5.52	1.40	1.33
1	9t	168	PHE	CA-C	5.52	1.59	1.52
1	9D	42	ALA	CA-CB	5.52	1.61	1.53
1	9W	180	GLU	CA-C	-5.52	1.45	1.52
1	az	108	THR	CA-CB	-5.52	1.45	1.53
1	bM	188	THR	C-N	5.52	1.41	1.34
1	bT	183	ASN	N-CA	-5.52	1.39	1.46
1	bZ	29	GLU	C-N	-5.52	1.26	1.33
1	c6	134	ILE	CA-C	5.52	1.59	1.52
1	c7	40	PHE	N-CA	-5.52	1.39	1.46
1	ca	71	GLU	CA-CB	5.52	1.62	1.53
1	ci	57	ASN	N-CA	5.52	1.53	1.46
1	ci	126	VAL	C-N	5.52	1.40	1.33
1	ct	154	ARG	CA-CB	5.52	1.63	1.53
1	cx	27	VAL	N-CA	5.52	1.53	1.46
1	cR	216	THR	CA-C	5.52	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dt	102	SER	C-O	-5.52	1.16	1.24
1	dT	123	PRO	CA-CB	5.52	1.61	1.53
1	eh	173	ARG	CD-NE	5.52	1.53	1.46
1	ep	24	VAL	N-CA	5.52	1.53	1.46
1	fb	143	ARG	C-N	5.52	1.41	1.33
1	fl	87	HIS	C-N	-5.52	1.26	1.33
1	fU	192	GLN	C-O	-5.52	1.17	1.24
1	fZ	85	PRO	C-O	-5.52	1.17	1.24
1	b	141	ILE	CA-CB	5.52	1.61	1.54
1	j	77	ALA	CA-CB	5.52	1.61	1.53
1	k	134	ILE	C-N	5.52	1.40	1.33
1	E	150	ILE	CB-CG1	5.52	1.64	1.53
1	R	67	GLN	C-N	5.52	1.41	1.33
1	g8	55	MET	CA-CB	5.52	1.61	1.53
1	ga	79	GLU	N-CA	5.52	1.52	1.46
1	gn	78	ALA	N-CA	5.52	1.53	1.46
1	gq	211	LEU	CA-CB	5.52	1.61	1.53
1	1F	84	HIS	ND1-CE1	5.52	1.38	1.32
1	gP	209	ALA	N-CA	-5.52	1.39	1.46
1	1G	167	ARG	CA-C	-5.52	1.45	1.52
1	hp	57	ASN	C-N	5.52	1.41	1.33
1	hH	58	THR	N-CA	-5.52	1.38	1.46
1	hQ	179	GLN	N-CA	-5.52	1.39	1.46
1	hS	224	PRO	N-CA	-5.52	1.40	1.47
1	i8	117	TRP	C-N	5.52	1.41	1.33
1	ib	118	MET	CA-CB	5.52	1.62	1.53
1	id	40	PHE	CA-C	5.52	1.60	1.52
1	iv	33	SER	CA-CB	5.52	1.62	1.52
1	iF	107	THR	N-CA	5.52	1.53	1.46
1	iV	146	SER	CA-CB	5.52	1.61	1.52
1	jk	124	ILE	CA-CB	-5.52	1.48	1.53
1	jC	149	SER	CA-CB	5.52	1.59	1.52
1	1Y	77	ALA	C-N	5.52	1.41	1.33
1	k2	57	ASN	N-CA	5.52	1.53	1.46
1	kf	185	MET	CA-C	-5.52	1.45	1.52
1	22	172	LEU	CA-CB	5.52	1.61	1.53
1	kL	139	ASN	CA-CB	5.52	1.61	1.53
1	l8	84	HIS	CA-C	5.52	1.59	1.52
1	lI	44	SER	C-N	-5.52	1.25	1.33
1	2l	206	GLY	C-N	-5.52	1.29	1.33
1	2s	145	TYR	N-CA	-5.52	1.38	1.46
1	2y	199	LYS	N-CA	5.52	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2B	58	THR	CA-C	-5.52	1.45	1.52
1	2Z	187	GLU	CA-C	-5.52	1.45	1.52
1	3h	186	THR	C-O	-5.52	1.16	1.24
1	3B	112	GLN	CA-CB	5.52	1.61	1.53
1	3I	111	LEU	N-CA	5.52	1.52	1.46
1	3S	152	ASP	C-N	5.52	1.40	1.33
1	4e	97	ARG	CZ-NH2	-5.52	1.26	1.33
1	4l	180	GLU	N-CA	-5.52	1.39	1.46
1	4u	50	GLN	N-CA	5.52	1.53	1.46
1	4E	22	ALA	C-N	5.52	1.40	1.33
1	4G	177	ALA	N-CA	5.52	1.52	1.45
1	4G	225	GLY	CA-C	-5.52	1.46	1.52
1	4Q	71	GLU	C-N	5.52	1.41	1.33
1	4Q	185	MET	CA-C	-5.52	1.45	1.52
1	5c	61	GLY	N-CA	5.52	1.52	1.45
1	5i	65	ALA	C-N	5.52	1.41	1.34
1	5q	162	ARG	CD-NE	5.52	1.53	1.46
1	5z	25	LYS	N-CA	5.52	1.52	1.46
1	5K	12	HIS	CG-ND1	-5.52	1.32	1.38
1	5P	172	LEU	CA-C	5.52	1.60	1.52
1	5Q	110	THR	C-N	5.52	1.41	1.34
1	6u	100	ARG	N-CA	5.52	1.52	1.45
1	7d	85	PRO	C-N	5.52	1.39	1.33
1	7e	69	LEU	CA-CB	5.52	1.61	1.53
1	7f	215	MET	CA-CB	5.52	1.61	1.53
1	7q	153	ILE	CA-CB	-5.52	1.47	1.53
1	7t	68	MET	C-N	5.52	1.40	1.33
1	7D	139	ASN	CA-C	5.52	1.59	1.52
1	7U	17	PRO	C-N	5.52	1.41	1.33
1	7X	206	GLY	CA-C	5.52	1.59	1.51
1	8z	79	GLU	C-N	5.52	1.41	1.33
1	8z	124	ILE	C-O	-5.52	1.18	1.24
1	9q	78	ALA	C-N	5.52	1.40	1.33
1	9u	1	PRO	N-CD	5.52	1.55	1.47
1	9J	196	PRO	N-CA	-5.52	1.40	1.47
1	a6	137	GLY	CA-C	-5.52	1.45	1.52
1	ab	12	HIS	CG-ND1	-5.52	1.32	1.38
1	aF	120	HIS	CB-CG	-5.52	1.42	1.50
1	aL	115	ILE	CA-CB	5.52	1.61	1.54
1	16	200	THR	N-CA	5.52	1.53	1.46
1	1c	72	THR	N-CA	5.52	1.53	1.46
1	cd	62	HIS	CB-CG	5.52	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ct	50	GLN	CA-CB	5.52	1.61	1.53
1	ct	195	ASN	N-CA	-5.52	1.38	1.46
1	cu	34	PRO	N-CD	-5.52	1.40	1.47
1	cW	230	VAL	C-O	-5.52	1.16	1.24
1	d0	82	ARG	NE-CZ	5.52	1.39	1.33
1	dp	110	THR	CA-CB	5.52	1.62	1.53
1	dt	87	HIS	ND1-CE1	5.52	1.38	1.32
1	dC	184	TRP	CA-CB	5.52	1.62	1.53
1	dE	143	ARG	NE-CZ	-5.52	1.26	1.33
1	dN	72	THR	N-CA	5.52	1.53	1.46
1	1o	125	PRO	CA-C	5.52	1.58	1.53
1	ec	13	GLN	CA-CB	5.52	1.62	1.53
1	es	219	GLN	C-N	5.52	1.41	1.33
1	ez	25	LYS	C-O	-5.52	1.17	1.24
1	eH	201	ILE	CA-CB	-5.52	1.48	1.54
1	eS	121	ASN	CA-CB	5.52	1.61	1.53
1	f0	217	ALA	N-CA	-5.52	1.39	1.46
1	f2	141	ILE	CA-CB	-5.52	1.48	1.54
1	fv	104	ILE	CA-CB	-5.52	1.47	1.54
1	fG	40	PHE	CA-CB	5.52	1.61	1.53
1	fK	149	SER	CA-C	5.52	1.60	1.52
1	fQ	1	PRO	C-N	5.52	1.40	1.33
1	fT	52	LEU	C-N	5.52	1.41	1.33
1	g5	192	GLN	CA-C	5.52	1.59	1.52
1	i	56	LEU	CA-C	5.52	1.59	1.52
1	r	62	HIS	CD2-NE2	5.52	1.44	1.37
1	6	134	ILE	C-N	5.52	1.40	1.33
1	8	46	GLY	C-N	5.52	1.41	1.33
1	gv	87	HIS	ND1-CE1	5.52	1.38	1.32
1	1H	225	GLY	CA-C	-5.52	1.45	1.51
1	hC	87	HIS	CA-C	5.52	1.59	1.52
1	hS	184	TRP	CA-C	-5.52	1.45	1.52
1	iI	154	ARG	CA-CB	5.52	1.62	1.53
1	jo	37	ILE	CA-CB	5.52	1.57	1.54
1	jq	91	ILE	CA-C	5.52	1.58	1.53
1	jY	143	ARG	CD-NE	5.52	1.53	1.46
1	kc	139	ASN	CA-C	5.52	1.59	1.52
1	ko	119	THR	CA-CB	5.52	1.62	1.53
1	l1	84	HIS	CB-CG	5.52	1.57	1.50
1	27	30	LYS	CA-CB	5.52	1.60	1.53
1	lI	120	HIS	CE1-NE2	-5.52	1.27	1.32
1	2r	44	SER	N-CA	-5.52	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2J	183	ASN	C-N	5.52	1.40	1.33
1	3y	184	TRP	NE1-CE2	-5.52	1.31	1.37
1	42	141	ILE	CA-CB	5.52	1.61	1.54
1	4c	5	ASN	N-CA	-5.52	1.39	1.46
1	4c	200	THR	CA-C	-5.52	1.45	1.52
1	4t	118	MET	CA-C	5.52	1.59	1.52
1	5g	215	MET	CA-C	5.52	1.60	1.52
1	6P	1	PRO	C-N	-5.52	1.26	1.33
1	8y	72	THR	CA-C	5.52	1.59	1.52
1	8T	80	TRP	N-CA	-5.52	1.39	1.46
1	90	149	SER	CA-CB	5.52	1.62	1.53
1	Y	10	MET	CA-C	5.52	1.59	1.52
1	11	84	HIS	CD2-NE2	5.52	1.44	1.37
1	ao	160	PRO	CA-C	5.52	1.60	1.52
1	aA	49	PRO	N-CA	5.52	1.54	1.47
1	bc	173	ARG	CA-C	-5.52	1.45	1.52
1	br	132	ARG	CA-C	5.52	1.60	1.52
1	bC	172	LEU	CA-C	5.52	1.60	1.52
1	cI	16	SER	CA-C	5.52	1.58	1.52
1	eb	138	LEU	N-CA	5.52	1.53	1.46
1	f8	130	TYR	CA-C	5.52	1.59	1.52
1	1v	178	SER	N-CA	5.52	1.53	1.45
1	fW	116	GLY	N-CA	5.52	1.52	1.45
1	p	80	TRP	CA-CB	5.52	1.62	1.53
1	B	110	THR	N-CA	5.52	1.52	1.45
1	gH	198	CYS	CA-C	5.51	1.59	1.52
1	gQ	206	GLY	N-CA	5.51	1.52	1.44
1	hf	141	ILE	CA-C	5.51	1.59	1.52
1	hM	117	TRP	C-O	-5.51	1.17	1.24
1	hW	207	PRO	CA-CB	5.51	1.61	1.53
1	if	182	LYS	CA-CB	5.51	1.62	1.53
1	ip	107	THR	CA-C	5.51	1.59	1.52
1	iy	31	ALA	C-N	5.51	1.41	1.33
1	iU	194	ALA	CA-C	5.51	1.60	1.53
1	j4	12	HIS	N-CA	5.51	1.52	1.46
1	jL	16	SER	CA-C	-5.51	1.47	1.53
1	k5	63	GLN	CA-C	5.51	1.59	1.52
1	k7	84	HIS	CG-CD2	5.51	1.42	1.35
1	kb	12	HIS	ND1-CE1	5.51	1.38	1.32
1	21	162	ARG	CD-NE	5.51	1.53	1.46
1	ku	201	ILE	C-N	5.51	1.41	1.33
1	kZ	147	PRO	CA-CB	5.51	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l3	62	HIS	CE1-NE2	5.51	1.38	1.32
1	le	102	SER	CA-CB	5.51	1.63	1.53
1	lf	224	PRO	N-CA	-5.51	1.40	1.47
1	lp	62	HIS	CA-CB	5.51	1.62	1.53
1	lv	134	ILE	C-N	5.51	1.40	1.33
1	lH	80	TRP	CA-CB	5.51	1.61	1.53
1	2q	204	ALA	CA-C	5.51	1.60	1.52
1	2t	33	SER	C-O	-5.51	1.19	1.24
1	2F	66	MET	N-CA	-5.51	1.39	1.46
1	2O	133	TRP	C-N	5.51	1.40	1.33
1	2P	132	ARG	CD-NE	5.51	1.53	1.46
1	2Q	73	ILE	CA-C	-5.51	1.46	1.52
1	3g	224	PRO	N-CA	-5.51	1.40	1.47
1	3C	130	TYR	CA-CB	5.51	1.62	1.53
1	3E	71	GLU	CA-CB	5.51	1.62	1.53
1	3G	59	VAL	CA-C	-5.51	1.45	1.52
1	3G	167	ARG	C-N	5.51	1.40	1.33
1	46	16	SER	CA-CB	5.51	1.61	1.53
1	4d	129	ILE	CA-C	5.51	1.59	1.52
1	54	97	ARG	CZ-NH2	-5.51	1.26	1.33
1	5E	119	THR	C-N	5.51	1.40	1.33
1	5F	198	CYS	CA-C	-5.51	1.45	1.52
1	5L	115	ILE	C-N	5.51	1.40	1.33
1	6h	57	ASN	N-CA	5.51	1.53	1.46
1	6h	77	ALA	C-N	-5.51	1.26	1.34
1	6h	104	ILE	N-CA	5.51	1.53	1.46
1	6k	112	GLN	CA-C	5.51	1.60	1.52
1	6U	167	ARG	N-CA	-5.51	1.39	1.46
1	79	27	VAL	C-N	-5.51	1.27	1.33
1	7p	131	LYS	N-CA	5.51	1.53	1.46
1	7P	55	MET	C-N	5.51	1.41	1.33
1	7R	103	ASP	N-CA	-5.51	1.39	1.46
1	7S	159	GLU	N-CA	-5.51	1.40	1.46
1	8q	215	MET	CA-C	-5.51	1.45	1.52
1	8t	192	GLN	CA-CB	5.51	1.61	1.53
1	8E	212	GLU	CA-C	-5.51	1.45	1.52
1	95	71	GLU	C-N	5.51	1.40	1.33
1	9f	14	ALA	CA-C	5.51	1.60	1.52
1	a1	213	GLU	CA-C	5.51	1.59	1.52
1	a5	122	PRO	N-CD	-5.51	1.40	1.47
1	a8	226	HIS	C-O	5.51	1.29	1.23
1	ai	78	ALA	C-N	5.51	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aq	136	LEU	N-CA	5.51	1.52	1.46
1	as	80	TRP	N-CA	5.51	1.53	1.46
1	12	109	SER	C-O	-5.51	1.17	1.23
1	bu	111	LEU	C-N	5.51	1.41	1.33
1	bA	154	ARG	CD-NE	5.51	1.53	1.46
1	bI	82	ARG	CD-NE	5.51	1.53	1.46
1	bV	143	ARG	CD-NE	5.51	1.53	1.46
1	cm	70	LYS	CA-CB	5.51	1.61	1.53
1	cr	52	LEU	CA-CB	5.51	1.61	1.53
1	cz	38	PRO	N-CA	5.51	1.54	1.47
1	cD	78	ALA	N-CA	-5.51	1.39	1.46
1	cE	2	ILE	CA-CB	-5.51	1.47	1.54
1	cW	204	ALA	C-N	5.51	1.41	1.33
1	di	43	LEU	CA-CB	5.51	1.62	1.53
1	dw	149	SER	CA-C	5.51	1.60	1.52
1	dP	19	THR	CA-C	-5.51	1.45	1.52
1	eh	210	THR	CA-C	5.51	1.60	1.53
1	ek	199	LYS	N-CA	5.51	1.52	1.46
1	1q	174	ALA	N-CA	5.51	1.53	1.46
1	er	61	GLY	CA-C	-5.51	1.44	1.52
1	1r	87	HIS	ND1-CE1	5.51	1.38	1.32
1	1u	158	LYS	CA-CB	5.51	1.62	1.53
1	fg	45	GLU	CA-C	-5.51	1.45	1.52
1	1y	125	PRO	CA-C	5.51	1.59	1.53
1	1z	173	ARG	CD-NE	5.51	1.53	1.46
1	1z	230	VAL	CA-CB	-5.51	1.48	1.54
1	fQ	111	LEU	CA-C	5.51	1.60	1.52
1	y	72	THR	C-N	5.51	1.41	1.34
1	G	78	ALA	N-CA	-5.51	1.39	1.46
1	H	1	PRO	N-CD	5.51	1.55	1.47
1	gr	165	VAL	N-CA	-5.51	1.40	1.46
1	gP	103	ASP	CA-C	5.51	1.59	1.52
1	h4	156	GLY	CA-C	5.51	1.59	1.51
1	hf	202	LEU	N-CA	5.51	1.53	1.46
1	hC	82	ARG	CD-NE	5.51	1.53	1.46
1	i1	62	HIS	CD2-NE2	5.51	1.44	1.37
1	ip	35	GLU	C-N	5.51	1.40	1.33
1	iu	3	VAL	CA-C	5.51	1.59	1.53
1	iG	37	ILE	CA-CB	-5.51	1.51	1.54
1	iS	162	ARG	N-CA	-5.51	1.39	1.46
1	iV	186	THR	C-N	5.51	1.41	1.33
1	je	204	ALA	N-CA	-5.51	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jn	195	ASN	CA-C	5.51	1.59	1.53
1	k8	25	LYS	CA-CB	5.51	1.61	1.53
1	kg	84	HIS	CD2-NE2	5.51	1.44	1.37
1	2x	86	VAL	N-CA	-5.51	1.39	1.46
1	2U	21	ASN	C-O	-5.51	1.17	1.24
1	4f	133	TRP	C-O	-5.51	1.17	1.24
1	5G	182	LYS	N-CA	-5.51	1.39	1.46
1	6y	123	PRO	N-CD	-5.51	1.40	1.47
1	7m	173	ARG	CD-NE	5.51	1.53	1.46
1	7Q	81	ASP	CA-C	5.51	1.59	1.52
1	9m	201	ILE	C-O	-5.51	1.17	1.24
1	9K	50	GLN	CA-CB	5.51	1.61	1.53
1	9W	181	VAL	CA-C	5.51	1.59	1.52
1	aL	21	ASN	CA-C	-5.51	1.45	1.52
1	bq	108	THR	CA-CB	5.51	1.61	1.53
1	bA	109	SER	C-N	5.51	1.41	1.33
1	bH	86	VAL	CA-C	5.51	1.58	1.52
1	bM	160	PRO	N-CA	-5.51	1.40	1.47
1	c3	162	ARG	CA-CB	5.51	1.62	1.53
1	ca	175	GLU	C-N	5.51	1.41	1.34
1	cj	187	GLU	CA-CB	5.51	1.62	1.53
1	cl	205	LEU	N-CA	-5.51	1.39	1.46
1	cV	74	ASN	CA-CB	5.51	1.62	1.53
1	dN	124	ILE	CA-CB	-5.51	1.48	1.53
1	f9	82	ARG	CA-CB	5.51	1.62	1.53
1	fz	136	LEU	C-N	5.51	1.40	1.33
1	fE	20	LEU	N-CA	-5.51	1.39	1.46
1	g1	12	HIS	C-N	5.51	1.40	1.33
1	p	210	THR	CA-C	-5.51	1.45	1.53
1	x	91	ILE	CA-CB	-5.51	1.47	1.54
1	y	37	ILE	CA-C	5.51	1.58	1.52
1	z	165	VAL	N-CA	-5.51	1.40	1.46
1	E	130	TYR	CA-C	5.51	1.59	1.52
1	N	168	PHE	N-CA	-5.51	1.39	1.46
1	X	37	ILE	N-CA	5.51	1.53	1.46
1	X	133	TRP	NE1-CE2	5.51	1.43	1.37
1	gb	142	VAL	CA-C	5.51	1.59	1.52
1	ge	99	PRO	N-CD	-5.51	1.40	1.47
1	gj	12	HIS	C-N	5.51	1.40	1.33
1	1D	151	LEU	CA-C	5.51	1.59	1.52
1	gK	116	GLY	C-O	5.51	1.30	1.23
1	gO	114	GLN	CA-C	5.51	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hf	148	THR	CA-CB	5.51	1.61	1.53
1	hs	157	PRO	CA-C	5.51	1.58	1.52
1	hu	58	THR	N-CA	5.51	1.53	1.46
1	hD	220	GLY	C-N	5.51	1.39	1.34
1	hE	74	ASN	CA-CB	5.51	1.61	1.53
1	hX	84	HIS	CA-C	5.51	1.58	1.52
1	i8	161	PHE	C-N	5.51	1.41	1.33
1	im	25	LYS	C-N	5.51	1.40	1.33
1	ja	79	GLU	N-CA	5.51	1.53	1.46
1	ji	189	LEU	C-N	5.51	1.40	1.33
1	jl	71	GLU	C-N	5.51	1.41	1.33
1	jm	155	GLN	CA-C	5.51	1.59	1.52
1	jW	167	ARG	CA-CB	5.51	1.61	1.53
1	jY	139	ASN	CA-C	5.51	1.60	1.52
1	k5	152	ASP	CA-CB	5.51	1.63	1.53
1	kh	137	GLY	C-N	5.51	1.41	1.34
1	km	101	GLY	N-CA	-5.51	1.39	1.45
1	kq	156	GLY	C-N	5.51	1.41	1.33
1	kK	186	THR	C-O	-5.51	1.17	1.24
1	kM	160	PRO	C-N	5.51	1.41	1.34
1	kU	134	ILE	CA-CB	-5.51	1.48	1.54
1	l5	131	LYS	CA-CB	5.51	1.61	1.53
1	26	177	ALA	N-CA	5.51	1.53	1.46
1	2v	44	SER	CA-C	-5.51	1.45	1.52
1	2C	117	TRP	CA-CB	5.51	1.62	1.53
1	2F	170	LYS	CA-C	5.51	1.59	1.52
1	2K	200	THR	C-N	5.51	1.40	1.33
1	3j	57	ASN	CA-C	-5.51	1.45	1.52
1	3F	132	ARG	C-N	-5.51	1.26	1.33
1	3I	119	THR	CA-CB	5.51	1.63	1.53
1	3O	112	GLN	N-CA	-5.51	1.39	1.46
1	3S	82	ARG	CD-NE	5.51	1.53	1.46
1	3X	8	GLY	CA-C	-5.51	1.43	1.51
1	3X	190	LEU	CB-CG	5.51	1.64	1.53
1	4s	37	ILE	C-N	5.51	1.40	1.33
1	4v	133	TRP	CA-C	5.51	1.59	1.52
1	4S	168	PHE	C-N	5.51	1.41	1.33
1	5C	100	ARG	CZ-NH2	-5.51	1.26	1.33
1	61	88	ALA	N-CA	-5.51	1.39	1.46
1	6k	2	ILE	C-N	5.51	1.40	1.33
1	6r	225	GLY	CA-C	-5.51	1.44	1.51
1	6t	40	PHE	C-N	5.51	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6R	37	ILE	CA-C	5.51	1.59	1.52
1	77	45	GLU	CA-CB	-5.51	1.46	1.53
1	7g	166	ASP	C-N	5.51	1.41	1.33
1	7Q	141	ILE	N-CA	-5.51	1.40	1.46
1	7X	179	GLN	CA-CB	5.51	1.62	1.53
1	8q	12	HIS	ND1-CE1	5.51	1.38	1.32
1	8v	25	LYS	CA-C	-5.51	1.45	1.52
1	8A	50	GLN	CA-CB	5.51	1.62	1.53
1	8K	4	GLN	CA-C	5.51	1.59	1.52
1	8R	138	LEU	CA-CB	5.51	1.62	1.53
1	97	113	GLU	CA-CB	5.51	1.62	1.53
1	9h	185	MET	C-N	5.51	1.40	1.33
1	9w	75	GLU	C-N	5.51	1.41	1.33
1	9x	45	GLU	CA-C	-5.51	1.45	1.52
1	9y	88	ALA	CA-C	-5.51	1.45	1.52
1	9A	21	ASN	C-N	5.51	1.40	1.33
1	a3	68	MET	N-CA	-5.51	1.39	1.46
1	10	100	ARG	CA-CB	5.51	1.61	1.53
1	ab	167	ARG	CD-NE	5.51	1.53	1.46
1	af	5	ASN	CA-CB	5.51	1.62	1.53
1	af	111	LEU	CB-CG	5.51	1.64	1.53
1	aH	201	ILE	CA-C	-5.51	1.45	1.52
1	18	109	SER	N-CA	5.51	1.53	1.46
1	bN	130	TYR	CA-CB	5.51	1.62	1.53
1	bN	154	ARG	CD-NE	5.51	1.53	1.46
1	c8	36	VAL	CA-CB	-5.51	1.48	1.54
1	cf	168	PHE	C-N	5.51	1.41	1.33
1	cy	222	GLY	N-CA	5.51	1.51	1.45
1	cz	211	LEU	C-N	5.51	1.41	1.33
1	cU	141	ILE	CA-C	5.51	1.59	1.52
1	dn	123	PRO	C-N	5.51	1.38	1.33
1	ds	139	ASN	CA-C	-5.51	1.45	1.52
1	dD	156	GLY	C-N	-5.51	1.27	1.34
1	dH	51	ASP	N-CA	5.51	1.52	1.46
1	dI	87	HIS	CB-CG	5.51	1.57	1.50
1	dJ	20	LEU	CA-CB	5.51	1.62	1.53
1	dP	161	PHE	C-N	5.51	1.41	1.33
1	dT	23	TRP	NE1-CE2	5.51	1.43	1.37
1	e7	165	VAL	C-N	5.51	1.40	1.33
1	eg	52	LEU	C-N	5.51	1.40	1.33
1	ek	11	VAL	N-CA	-5.51	1.39	1.46
1	eE	80	TRP	CA-CB	5.51	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eI	131	LYS	C-N	5.51	1.40	1.33
1	eK	108	THR	CA-C	-5.51	1.45	1.52
1	f7	164	TYR	CZ-OH	5.51	1.49	1.38
1	fn	205	LEU	CA-CB	5.51	1.63	1.53
1	fq	136	LEU	CA-CB	5.51	1.61	1.53
1	ft	166	ASP	CA-CB	5.51	1.61	1.53
1	fy	5	ASN	N-CA	-5.51	1.39	1.46
1	fQ	152	ASP	N-CA	5.51	1.52	1.46
1	fR	149	SER	CA-CB	5.51	1.62	1.53
1	e	147	PRO	N-CA	-5.51	1.40	1.47
1	F	144	MET	N-CA	5.51	1.52	1.46
1	9	63	GLN	C-O	-5.51	1.17	1.24
1	gI	125	PRO	N-CD	-5.51	1.40	1.47
1	gK	52	LEU	CA-CB	5.51	1.62	1.53
1	1G	150	ILE	CA-C	5.51	1.60	1.52
1	h3	116	GLY	N-CA	-5.51	1.38	1.45
1	h4	141	ILE	C-O	-5.51	1.17	1.24
1	h8	104	ILE	N-CA	5.51	1.53	1.46
1	h9	64	ALA	C-N	5.51	1.41	1.33
1	he	154	ARG	CD-NE	5.51	1.53	1.46
1	hn	187	GLU	N-CA	5.51	1.53	1.46
1	ho	27	VAL	CA-C	5.51	1.60	1.52
1	1K	139	ASN	CA-C	-5.51	1.45	1.52
1	1L	62	HIS	CA-CB	5.51	1.61	1.53
1	ii	152	ASP	CA-C	5.51	1.60	1.52
1	iF	155	GLN	CA-C	5.51	1.59	1.52
1	jt	51	ASP	C-N	5.51	1.42	1.33
1	k4	144	MET	N-CA	5.51	1.53	1.46
1	20	75	GLU	CA-C	5.51	1.59	1.52
1	20	208	ALA	CA-C	5.51	1.60	1.52
1	kn	21	ASN	CA-C	-5.51	1.45	1.52
1	kF	45	GLU	C-N	5.51	1.41	1.33
1	kP	208	ALA	CA-CB	5.51	1.62	1.53
1	l6	150	ILE	CA-CB	5.51	1.61	1.54
1	lb	106	GLY	C-N	5.51	1.41	1.34
1	ls	153	ILE	C-N	5.51	1.40	1.33
1	lA	152	ASP	CA-CB	5.51	1.60	1.53
1	lC	176	GLN	CA-C	-5.51	1.46	1.52
1	lO	146	SER	CA-CB	5.51	1.61	1.53
1	2h	203	LYS	C-N	5.51	1.41	1.33
1	2s	134	ILE	N-CA	5.51	1.53	1.46
1	2w	6	LEU	CA-C	-5.51	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2K	104	ILE	C-O	5.51	1.31	1.24
1	31	217	ALA	N-CA	-5.51	1.38	1.45
1	3d	148	THR	CA-C	-5.51	1.45	1.52
1	3m	21	ASN	C-N	5.51	1.41	1.33
1	3q	192	GLN	CA-CB	5.51	1.62	1.53
1	3t	28	GLU	CA-C	5.51	1.59	1.52
1	3D	152	ASP	N-CA	-5.51	1.38	1.46
1	3E	162	ARG	CZ-NH2	-5.51	1.26	1.33
1	49	200	THR	CA-C	-5.51	1.45	1.52
1	4X	180	GLU	C-N	5.51	1.40	1.33
1	5l	62	HIS	CE1-NE2	5.51	1.38	1.32
1	5r	114	GLN	C-O	-5.51	1.17	1.24
1	67	32	PHE	N-CA	-5.51	1.40	1.46
1	6h	139	ASN	N-CA	-5.51	1.39	1.46
1	6n	9	GLN	CA-C	-5.51	1.46	1.52
1	6W	59	VAL	CA-CB	-5.51	1.47	1.54
1	7b	120	HIS	CD2-NE2	5.51	1.44	1.37
1	7o	65	ALA	CA-CB	5.51	1.62	1.53
1	7x	7	GLN	CA-C	5.51	1.59	1.52
1	7z	140	LYS	C-N	5.51	1.40	1.33
1	7I	54	THR	N-CA	5.51	1.53	1.46
1	7Q	21	ASN	CA-CB	5.51	1.61	1.53
1	8h	16	SER	CA-C	-5.51	1.45	1.52
1	8n	6	LEU	CA-C	5.51	1.60	1.52
1	8t	17	PRO	N-CD	-5.51	1.40	1.47
1	8v	131	LYS	CA-CB	5.51	1.61	1.53
1	8D	174	ALA	CA-CB	5.51	1.61	1.53
1	8G	66	MET	N-CA	5.51	1.53	1.46
1	8G	189	LEU	C-O	-5.51	1.17	1.24
1	9k	53	ASN	C-N	5.51	1.41	1.33
1	9q	14	ALA	N-CA	5.51	1.53	1.45
1	9w	6	LEU	CA-C	-5.51	1.45	1.52
1	9A	103	ASP	CA-C	5.51	1.59	1.52
1	9D	111	LEU	N-CA	5.51	1.53	1.46
1	9G	117	TRP	CA-C	5.51	1.60	1.52
1	9L	84	HIS	C-O	-5.51	1.19	1.24
1	9N	130	TYR	CA-CB	5.51	1.62	1.53
1	13	34	PRO	N-CD	-5.51	1.40	1.47
1	aK	21	ASN	CA-C	-5.51	1.45	1.52
1	be	48	THR	N-CA	5.51	1.53	1.45
1	bg	65	ALA	CA-C	5.51	1.59	1.52
1	bh	76	GLU	CA-C	-5.51	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bN	162	ARG	CD-NE	5.51	1.53	1.46
1	cg	120	HIS	CA-CB	5.51	1.61	1.53
1	cs	14	ALA	N-CA	5.51	1.52	1.45
1	cv	44	SER	N-CA	-5.51	1.38	1.45
1	cM	5	ASN	CA-CB	5.51	1.60	1.53
1	df	62	HIS	CG-ND1	5.51	1.44	1.38
1	dv	80	TRP	CA-CB	-5.51	1.44	1.53
1	dx	100	ARG	CZ-NH1	-5.51	1.25	1.32
1	dE	226	HIS	CG-ND1	-5.51	1.32	1.38
1	ed	41	SER	CA-C	-5.51	1.45	1.52
1	eC	65	ALA	CA-CB	5.51	1.62	1.53
1	eE	230	VAL	CA-C	5.51	1.59	1.52
1	fg	89	GLY	N-CA	5.51	1.52	1.44
1	fw	84	HIS	CD2-NE2	5.51	1.44	1.37
1	fI	43	LEU	CA-C	-5.51	1.45	1.52
1	fY	105	ALA	N-CA	-5.51	1.38	1.46
1	g0	229	ARG	CA-C	-5.51	1.45	1.52
1	1B	168	PHE	CA-C	-5.51	1.45	1.52
1	d	1	PRO	N-CD	5.51	1.55	1.47
1	w	214	MET	CA-CB	5.51	1.61	1.53
1	z	108	THR	CA-CB	-5.51	1.46	1.54
1	T	10	MET	N-CA	5.51	1.52	1.46
1	V	37	ILE	CA-C	5.51	1.58	1.52
1	9	66	MET	C-N	5.51	1.40	1.33
1	9	162	ARG	CD-NE	5.51	1.53	1.46
1	gy	190	LEU	CA-C	5.51	1.59	1.52
1	gJ	167	ARG	CA-C	5.51	1.59	1.52
1	h5	119	THR	N-CA	5.51	1.52	1.46
1	hK	129	ILE	CA-CB	-5.51	1.47	1.54
1	i4	60	GLY	CA-C	-5.51	1.44	1.51
1	if	165	VAL	CA-CB	-5.51	1.48	1.54
1	iG	89	GLY	CA-C	5.51	1.59	1.51
1	iG	213	GLU	CA-C	5.51	1.59	1.52
1	ji	132	ARG	CA-C	5.51	1.59	1.52
1	jC	186	THR	N-CA	5.51	1.53	1.46
1	jX	196	PRO	N-CA	-5.51	1.40	1.47
1	kd	84	HIS	ND1-CE1	-5.51	1.27	1.32
1	kr	108	THR	C-N	5.51	1.40	1.33
1	kD	204	ALA	CA-CB	-5.51	1.44	1.53
1	kF	37	ILE	CA-C	5.51	1.57	1.52
1	kS	15	ILE	CA-C	5.51	1.59	1.52
1	lg	84	HIS	CA-CB	5.51	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lB	30	LYS	CA-C	-5.51	1.46	1.52
1	lL	59	VAL	CA-C	5.51	1.59	1.52
1	2s	174	ALA	N-CA	-5.51	1.38	1.46
1	3n	38	PRO	N-CA	5.51	1.54	1.47
1	57	34	PRO	CA-CB	5.51	1.61	1.53
1	5e	152	ASP	C-N	5.51	1.39	1.33
1	6h	1	PRO	C-N	5.51	1.40	1.33
1	6K	114	GLN	C-N	5.51	1.40	1.34
1	6L	106	GLY	CA-C	5.51	1.59	1.51
1	7B	47	ALA	CA-C	5.51	1.59	1.52
1	7M	116	GLY	C-N	5.51	1.40	1.33
1	7P	184	TRP	NE1-CE2	-5.51	1.31	1.37
1	88	17	PRO	CA-C	5.51	1.60	1.52
1	8O	20	LEU	N-CA	-5.51	1.39	1.46
1	9J	3	VAL	CA-C	-5.51	1.46	1.52
1	aC	105	ALA	C-N	5.51	1.39	1.33
1	14	17	PRO	CA-CB	5.51	1.61	1.53
1	bg	226	HIS	ND1-CE1	5.51	1.38	1.32
1	bO	127	GLY	CA-C	-5.51	1.45	1.52
1	c9	29	GLU	C-O	5.51	1.28	1.23
1	cc	45	GLU	CA-CB	5.51	1.60	1.53
1	cA	12	HIS	CA-CB	-5.51	1.45	1.53
1	dO	101	GLY	N-CA	5.51	1.52	1.45
1	ex	174	ALA	CA-C	5.51	1.60	1.52
1	eV	229	ARG	CD-NE	5.51	1.53	1.46
1	fu	220	GLY	CA-C	-5.51	1.44	1.51
1	fA	230	VAL	C-N	5.51	1.41	1.33
1	fW	21	ASN	CA-CB	5.51	1.62	1.53
1	1B	142	VAL	N-CA	5.51	1.53	1.46
1	i	186	THR	C-N	5.51	1.42	1.33
1	gj	82	ARG	CD-NE	5.51	1.53	1.46
1	gn	219	GLN	N-CA	-5.51	1.39	1.46
1	gC	6	LEU	CA-C	-5.51	1.46	1.52
1	gY	20	LEU	C-O	-5.51	1.17	1.24
1	h6	141	ILE	CA-CB	-5.51	1.47	1.54
1	hg	133	TRP	CA-CB	5.51	1.62	1.53
1	1L	80	TRP	CA-CB	5.51	1.61	1.53
1	hL	134	ILE	CA-CB	5.51	1.60	1.54
1	hQ	120	HIS	CG-CD2	-5.51	1.29	1.35
1	1M	110	THR	C-O	-5.51	1.17	1.23
1	i1	73	ILE	N-CA	-5.51	1.39	1.46
1	i9	50	GLN	CA-CB	5.51	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ig	100	ARG	CA-CB	5.51	1.62	1.53
1	ix	76	GLU	C-N	5.51	1.41	1.34
1	iI	175	GLU	CA-CB	5.51	1.62	1.53
1	iM	208	ALA	CA-C	5.51	1.59	1.52
1	j6	37	ILE	CA-C	5.51	1.59	1.52
1	jr	216	THR	N-CA	5.51	1.52	1.46
1	k1	92	GLU	CA-CB	5.51	1.61	1.53
1	kr	114	GLN	C-N	5.51	1.40	1.34
1	kw	87	HIS	CA-C	5.51	1.60	1.52
1	kC	145	TYR	N-CA	-5.51	1.39	1.46
1	kD	153	ILE	CB-CG1	5.51	1.64	1.53
1	kM	151	LEU	CA-CB	5.51	1.63	1.53
1	l5	76	GLU	C-N	5.51	1.41	1.33
1	29	67	GLN	CA-CB	5.51	1.62	1.53
1	lF	183	ASN	CA-C	-5.51	1.45	1.52
1	lL	12	HIS	CG-ND1	-5.51	1.32	1.38
1	2T	93	PRO	CA-CB	-5.51	1.46	1.53
1	3q	224	PRO	CA-C	5.51	1.60	1.52
1	3v	201	ILE	C-N	5.51	1.41	1.33
1	3B	8	GLY	N-CA	5.51	1.50	1.45
1	4a	188	THR	C-N	5.51	1.41	1.33
1	4b	134	ILE	C-N	5.51	1.40	1.33
1	4D	22	ALA	C-N	5.51	1.41	1.33
1	5e	24	VAL	CA-CB	-5.51	1.48	1.54
1	66	65	ALA	N-CA	5.51	1.53	1.46
1	6l	171	THR	CA-C	5.51	1.59	1.52
1	6Q	83	LEU	CA-C	5.51	1.60	1.52
1	71	58	THR	C-N	5.51	1.39	1.33
1	74	218	CYS	C-N	5.51	1.41	1.33
1	7H	171	THR	C-O	-5.51	1.17	1.24
1	7P	76	GLU	CA-C	5.51	1.59	1.52
1	7Z	162	ARG	CD-NE	5.51	1.53	1.46
1	82	224	PRO	CA-CB	-5.51	1.46	1.53
1	8t	176	GLN	N-CA	5.51	1.52	1.46
1	8u	24	VAL	CA-CB	-5.51	1.48	1.54
1	8B	139	ASN	CA-CB	5.51	1.61	1.53
1	8X	28	GLU	C-N	5.51	1.41	1.33
1	8Y	167	ARG	N-CA	-5.51	1.39	1.46
1	9E	125	PRO	N-CA	5.51	1.54	1.47
1	a8	227	LYS	CA-C	5.51	1.59	1.52
1	az	137	GLY	C-N	5.51	1.40	1.33
1	aF	71	GLU	C-N	5.51	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aJ	54	THR	N-CA	5.51	1.52	1.46
1	b7	120	HIS	ND1-CE1	5.51	1.38	1.32
1	b7	154	ARG	CD-NE	5.51	1.53	1.46
1	17	98	GLU	CA-C	5.51	1.60	1.53
1	bo	67	GLN	CA-CB	5.51	1.61	1.53
1	bR	60	GLY	C-N	5.51	1.39	1.33
1	bV	60	GLY	CA-C	-5.51	1.44	1.51
1	bX	230	VAL	N-CA	-5.51	1.39	1.46
1	c5	20	LEU	N-CA	5.51	1.52	1.46
1	1c	45	GLU	C-N	5.51	1.40	1.33
1	ck	173	ARG	N-CA	-5.51	1.39	1.46
1	cl	197	ASP	C-N	5.51	1.41	1.33
1	cv	85	PRO	C-N	5.51	1.40	1.33
1	cM	38	PRO	N-CD	5.51	1.55	1.47
1	cP	20	LEU	CB-CG	5.51	1.64	1.53
1	cZ	44	SER	C-N	5.51	1.41	1.33
1	d1	61	GLY	C-O	-5.51	1.18	1.23
1	dj	226	HIS	C-O	-5.51	1.17	1.23
1	dE	84	HIS	ND1-CE1	5.51	1.38	1.32
1	dL	123	PRO	N-CA	-5.51	1.40	1.47
1	dM	69	LEU	CA-C	-5.51	1.45	1.52
1	dV	39	MET	CA-CB	5.51	1.62	1.53
1	el	36	VAL	CA-C	5.51	1.60	1.52
1	ey	1	PRO	N-CA	5.51	1.55	1.47
1	eZ	215	MET	N-CA	-5.51	1.38	1.46
1	f2	59	VAL	C-N	5.51	1.40	1.34
1	f7	179	GLN	CA-C	-5.51	1.45	1.52
1	f8	95	GLN	N-CA	-5.51	1.39	1.46
1	fa	175	GLU	CA-C	5.51	1.59	1.52
1	fJ	170	LYS	CA-CB	5.51	1.61	1.53
1	fX	100	ARG	C-N	5.51	1.40	1.34
1	k	177	ALA	C-N	5.51	1.40	1.33
1	s	26	VAL	CA-CB	-5.51	1.47	1.54
1	u	24	VAL	C-O	5.51	1.30	1.24
1	hi	229	ARG	NE-CZ	5.50	1.39	1.33
1	1J	50	GLN	N-CA	-5.50	1.39	1.46
1	ip	73	ILE	CA-CB	-5.50	1.47	1.54
1	iS	108	THR	N-CA	5.50	1.53	1.45
1	j0	135	ILE	CA-CB	-5.50	1.46	1.54
1	jg	147	PRO	C-O	5.50	1.30	1.23
1	jy	69	LEU	C-N	5.50	1.41	1.33
1	jX	195	ASN	CA-CB	5.50	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	km	155	GLN	C-N	5.50	1.41	1.33
1	kr	187	GLU	N-CA	-5.50	1.39	1.46
1	29	179	GLN	CA-C	5.50	1.59	1.52
1	lM	27	VAL	CA-C	5.50	1.59	1.52
1	lR	10	MET	C-O	5.50	1.30	1.24
1	4i	175	GLU	CA-C	5.50	1.60	1.52
1	57	196	PRO	C-N	5.50	1.41	1.33
1	5f	170	LYS	N-CA	-5.50	1.39	1.46
1	5k	76	GLU	C-N	5.50	1.41	1.33
1	5q	7	GLN	CA-C	5.50	1.60	1.52
1	5v	202	LEU	N-CA	5.50	1.52	1.46
1	5Y	69	LEU	CA-CB	5.50	1.61	1.53
1	6V	185	MET	N-CA	5.50	1.52	1.46
1	71	104	ILE	CA-C	-5.50	1.46	1.52
1	7J	45	GLU	CA-CB	5.50	1.62	1.53
1	7M	189	LEU	C-O	-5.50	1.17	1.24
1	8z	211	LEU	N-CA	-5.50	1.39	1.46
1	8R	159	GLU	CA-C	5.50	1.60	1.52
1	8Z	75	GLU	CA-C	5.50	1.59	1.52
1	9i	12	HIS	C-N	5.50	1.40	1.33
1	9t	75	GLU	CA-C	5.50	1.59	1.52
1	9x	107	THR	N-CA	5.50	1.53	1.46
1	aS	141	ILE	CA-CB	-5.50	1.47	1.54
1	b0	133	TRP	N-CA	5.50	1.53	1.46
1	bR	26	VAL	CA-C	-5.50	1.45	1.52
1	bY	197	ASP	N-CA	-5.50	1.39	1.46
1	co	140	LYS	N-CA	-5.50	1.39	1.46
1	cO	46	GLY	C-N	5.50	1.40	1.33
1	cR	54	THR	C-N	5.50	1.41	1.33
1	d4	120	HIS	ND1-CE1	5.50	1.38	1.32
1	dK	97	ARG	CA-CB	5.50	1.62	1.53
1	1p	59	VAL	CA-CB	-5.50	1.47	1.53
1	fr	97	ARG	CA-C	5.50	1.60	1.53
1	fw	62	HIS	CE1-NE2	5.50	1.38	1.32
1	a	219	GLN	C-O	-5.50	1.17	1.24
1	g8	131	LYS	CA-C	-5.50	1.45	1.52
1	ga	227	LYS	CA-C	-5.50	1.45	1.52
1	gh	200	THR	C-O	-5.50	1.17	1.24
1	gi	227	LYS	C-N	5.50	1.40	1.33
1	gj	94	GLY	N-CA	5.50	1.53	1.45
1	gq	177	ALA	CA-C	5.50	1.59	1.52
1	gr	108	THR	C-N	5.50	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hL	62	HIS	CE1-NE2	5.50	1.38	1.32
1	hY	142	VAL	CA-C	-5.50	1.45	1.52
1	iL	140	LYS	CA-CB	5.50	1.61	1.53
1	j7	102	SER	CA-CB	5.50	1.62	1.53
1	jq	46	GLY	N-CA	5.50	1.53	1.45
1	jv	170	LYS	N-CA	-5.50	1.39	1.46
1	jw	162	ARG	N-CA	5.50	1.52	1.46
1	jC	85	PRO	C-N	-5.50	1.27	1.33
1	jY	79	GLU	CA-C	-5.50	1.45	1.52
1	ko	143	ARG	N-CA	5.50	1.53	1.46
1	kp	68	MET	N-CA	5.50	1.53	1.46
1	kv	3	VAL	CA-C	5.50	1.59	1.52
1	kx	87	HIS	ND1-CE1	5.50	1.38	1.32
1	kI	227	LYS	N-CA	5.50	1.53	1.46
1	24	213	GLU	C-N	5.50	1.40	1.33
1	lw	56	LEU	CB-CG	-5.50	1.42	1.53
1	lO	192	GLN	C-N	5.50	1.41	1.33
1	lQ	99	PRO	C-N	5.50	1.41	1.33
1	2r	216	THR	CA-C	-5.50	1.45	1.52
1	2J	141	ILE	CA-C	5.50	1.59	1.52
1	2N	140	LYS	CA-CB	5.50	1.62	1.53
1	36	92	GLU	C-N	5.50	1.40	1.33
1	39	164	TYR	CG-CD1	5.50	1.50	1.39
1	39	202	LEU	CA-C	5.50	1.59	1.52
1	3j	57	ASN	C-N	5.50	1.41	1.33
1	3G	75	GLU	CA-CB	5.50	1.61	1.53
1	40	192	GLN	CA-CB	5.50	1.62	1.53
1	4R	14	ALA	CA-C	-5.50	1.45	1.52
1	58	18	ARG	CD-NE	5.50	1.53	1.46
1	5b	42	ALA	C-N	5.50	1.41	1.34
1	5c	92	GLU	CA-C	5.50	1.60	1.52
1	5g	167	ARG	C-N	5.50	1.40	1.33
1	5w	180	GLU	N-CA	-5.50	1.39	1.46
1	6v	158	LYS	N-CA	-5.50	1.39	1.46
1	6E	87	HIS	CA-CB	5.50	1.62	1.53
1	6Y	77	ALA	CA-C	5.50	1.60	1.52
1	7I	117	TRP	NE1-CE2	5.50	1.43	1.37
1	96	174	ALA	CA-CB	5.50	1.62	1.53
1	9e	3	VAL	C-N	5.50	1.40	1.33
1	9D	38	PRO	N-CD	-5.50	1.40	1.47
1	a5	220	GLY	CA-C	-5.50	1.44	1.51
1	ad	120	HIS	CB-CG	5.50	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	af	62	HIS	CD2-NE2	5.50	1.44	1.37
1	aq	214	MET	N-CA	-5.50	1.39	1.46
1	aF	191	VAL	CA-CB	5.50	1.61	1.54
1	b0	76	GLU	C-O	-5.50	1.17	1.24
1	bB	224	PRO	CA-C	5.50	1.60	1.52
1	bY	52	LEU	CA-CB	5.50	1.61	1.53
1	c0	230	VAL	N-CA	5.50	1.53	1.46
1	c3	175	GLU	N-CA	5.50	1.52	1.46
1	c8	136	LEU	CB-CG	5.50	1.64	1.53
1	ci	23	TRP	NE1-CE2	-5.50	1.31	1.37
1	ck	163	ASP	C-N	5.50	1.41	1.33
1	cw	117	TRP	NE1-CE2	-5.50	1.31	1.37
1	d9	218	CYS	CA-C	5.50	1.60	1.52
1	dr	220	GLY	C-N	-5.50	1.26	1.33
1	dC	177	ALA	C-O	-5.50	1.17	1.24
1	dU	96	MET	CA-CB	5.50	1.61	1.53
1	e5	86	VAL	C-N	5.50	1.41	1.33
1	ek	90	PRO	C-N	5.50	1.41	1.33
1	es	162	ARG	CA-CB	5.50	1.61	1.53
1	es	184	TRP	CA-CB	5.50	1.61	1.53
1	ex	84	HIS	CG-ND1	5.50	1.44	1.38
1	ez	126	VAL	CA-CB	-5.50	1.46	1.54
1	eD	157	PRO	N-CA	-5.50	1.40	1.47
1	eL	178	SER	N-CA	5.50	1.53	1.45
1	fh	87	HIS	CG-CD2	5.50	1.42	1.35
1	ft	208	ALA	CA-C	-5.50	1.45	1.52
1	fB	191	VAL	CA-C	-5.50	1.47	1.53
1	fT	27	VAL	CA-CB	5.50	1.60	1.54
1	g7	160	PRO	CA-CB	-5.50	1.46	1.53
1	J	228	ALA	C-N	5.50	1.41	1.33
1	M	92	GLU	CA-CB	5.50	1.61	1.53
1	O	162	ARG	CA-C	5.50	1.59	1.52
1	S	68	MET	CA-CB	5.50	1.61	1.53
1	gk	127	GLY	C-O	-5.50	1.17	1.23
1	gl	114	GLN	CA-C	5.50	1.59	1.52
1	1E	89	GLY	N-CA	5.50	1.50	1.43
1	1G	59	VAL	CA-C	5.50	1.58	1.52
1	1G	222	GLY	CA-C	-5.50	1.43	1.52
1	h5	146	SER	CA-C	5.50	1.58	1.53
1	ha	146	SER	CA-C	-5.50	1.45	1.52
1	hb	96	MET	C-O	-5.50	1.17	1.24
1	hl	84	HIS	ND1-CE1	5.50	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hC	18	ARG	CD-NE	5.50	1.53	1.46
1	hS	62	HIS	CE1-NE2	5.50	1.38	1.32
1	ib	200	THR	CA-CB	5.50	1.62	1.53
1	iL	87	HIS	CA-CB	5.50	1.65	1.54
1	iT	48	THR	CB-OG1	5.50	1.52	1.43
1	jg	103	ASP	C-N	5.50	1.40	1.33
1	jl	5	ASN	CA-C	5.50	1.58	1.52
1	1W	49	PRO	CA-CB	5.50	1.61	1.53
1	jJ	37	ILE	CB-CG1	5.50	1.64	1.53
1	jZ	83	LEU	CA-CB	5.50	1.61	1.53
1	k1	226	HIS	ND1-CE1	5.50	1.38	1.32
1	k3	44	SER	C-N	5.50	1.41	1.33
1	k8	151	LEU	N-CA	-5.50	1.38	1.46
1	kd	131	LYS	N-CA	-5.50	1.39	1.46
1	ki	140	LYS	N-CA	-5.50	1.39	1.46
1	kw	120	HIS	CD2-NE2	5.50	1.44	1.37
1	kx	96	MET	CA-CB	5.50	1.60	1.52
1	23	121	ASN	CA-C	5.50	1.57	1.52
1	kR	12	HIS	ND1-CE1	5.50	1.38	1.32
1	l4	168	PHE	CA-CB	5.50	1.61	1.53
1	ld	36	VAL	C-N	5.50	1.39	1.33
1	lt	56	LEU	C-N	5.50	1.41	1.34
1	lu	159	GLU	C-N	5.50	1.40	1.33
1	lO	175	GLU	CA-CB	5.50	1.61	1.53
1	2d	141	ILE	CA-CB	5.50	1.61	1.54
1	2n	180	GLU	CA-CB	5.50	1.61	1.53
1	2p	27	VAL	CA-C	-5.50	1.45	1.52
1	2V	193	ASN	C-N	5.50	1.40	1.33
1	35	216	THR	C-N	5.50	1.40	1.33
1	36	127	GLY	CA-C	5.50	1.58	1.52
1	3l	214	MET	N-CA	-5.50	1.39	1.46
1	4b	146	SER	CA-C	5.50	1.59	1.52
1	4c	110	THR	N-CA	5.50	1.52	1.45
1	4z	84	HIS	CA-CB	5.50	1.62	1.54
1	4D	181	VAL	CA-CB	-5.50	1.48	1.54
1	4H	79	GLU	CA-CB	5.50	1.61	1.53
1	4K	167	ARG	CD-NE	5.50	1.53	1.46
1	56	129	ILE	CA-C	-5.50	1.46	1.52
1	5x	90	PRO	CA-CB	-5.50	1.46	1.53
1	5C	87	HIS	N-CA	5.50	1.52	1.45
1	5H	125	PRO	CA-CB	5.50	1.56	1.53
1	5I	222	GLY	CA-C	-5.50	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Y	5	ASN	CA-CB	5.50	1.61	1.53
1	62	40	PHE	CA-CB	5.50	1.61	1.53
1	63	88	ALA	N-CA	-5.50	1.39	1.46
1	66	37	ILE	N-CA	-5.50	1.39	1.46
1	6u	6	LEU	N-CA	5.50	1.53	1.46
1	6H	120	HIS	CA-CB	5.50	1.62	1.53
1	7e	85	PRO	N-CA	5.50	1.53	1.47
1	7p	138	LEU	CA-C	5.50	1.59	1.52
1	80	90	PRO	CA-C	5.50	1.59	1.52
1	8y	19	THR	CA-C	-5.50	1.45	1.52
1	8J	56	LEU	CA-C	5.50	1.59	1.52
1	92	26	VAL	CA-C	-5.50	1.46	1.52
1	9b	184	TRP	CD2-CE3	5.50	1.49	1.40
1	9e	97	ARG	CA-C	-5.50	1.45	1.52
1	9k	98	GLU	CA-C	-5.50	1.47	1.53
1	9p	73	ILE	CA-C	5.50	1.59	1.52
1	9B	95	GLN	C-N	5.50	1.41	1.33
1	9H	133	TRP	N-CA	5.50	1.52	1.46
1	9L	92	GLU	CA-C	5.50	1.59	1.53
1	9M	9	GLN	N-CA	-5.50	1.39	1.46
1	9U	82	ARG	CA-CB	5.50	1.61	1.53
1	a9	52	LEU	N-CA	-5.50	1.39	1.46
1	aa	8	GLY	CA-C	-5.50	1.44	1.51
1	ac	120	HIS	CE1-NE2	-5.50	1.27	1.32
1	ad	86	VAL	CA-CB	5.50	1.61	1.54
1	af	175	GLU	CA-C	-5.50	1.45	1.52
1	ah	1	PRO	N-CD	5.50	1.55	1.47
1	ah	129	ILE	N-CA	-5.50	1.40	1.46
1	aw	35	GLU	N-CA	5.50	1.53	1.46
1	aH	163	ASP	CA-CB	5.50	1.62	1.53
1	bt	201	ILE	N-CA	5.50	1.53	1.46
1	bu	209	ALA	C-N	5.50	1.40	1.33
1	bw	12	HIS	C-N	5.50	1.41	1.33
1	bE	128	GLU	C-O	-5.50	1.17	1.24
1	1a	132	ARG	N-CA	5.50	1.53	1.46
1	1c	27	VAL	CA-CB	-5.50	1.47	1.54
1	c8	143	ARG	C-N	5.50	1.40	1.33
1	cp	43	LEU	C-N	5.50	1.39	1.33
1	d3	166	ASP	CA-C	5.50	1.60	1.52
1	db	50	GLN	CA-CB	5.50	1.61	1.53
1	dd	199	LYS	N-CA	-5.50	1.39	1.46
1	1l	213	GLU	C-N	5.50	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dy	135	ILE	CA-CB	-5.50	1.47	1.54
1	dE	100	ARG	C-N	5.50	1.40	1.33
1	1n	40	PHE	N-CA	5.50	1.53	1.46
1	dT	51	ASP	C-N	5.50	1.41	1.33
1	e4	91	ILE	N-CA	5.50	1.53	1.46
1	eD	30	LYS	N-CA	5.50	1.52	1.46
1	eS	30	LYS	CA-CB	5.50	1.62	1.53
1	f1	160	PRO	C-N	5.50	1.40	1.33
1	fc	103	ASP	C-N	5.50	1.40	1.33
1	fK	172	LEU	C-O	-5.50	1.17	1.24
1	fV	126	VAL	CA-CB	5.50	1.61	1.54
1	g5	68	MET	CA-CB	5.50	1.61	1.53
1	c	186	THR	C-N	5.50	1.41	1.33
1	e	176	GLN	C-N	5.50	1.41	1.33
1	l	132	ARG	CA-CB	5.50	1.62	1.53
1	3	199	LYS	N-CA	-5.50	1.39	1.46
1	8	119	THR	N-CA	5.50	1.52	1.46
1	gd	100	ARG	CD-NE	5.50	1.53	1.46
1	gs	158	LYS	C-O	-5.50	1.16	1.24
1	gu	86	VAL	CA-CB	5.50	1.61	1.54
1	h5	103	ASP	C-N	5.50	1.40	1.33
1	hv	47	ALA	C-N	5.50	1.41	1.33
1	hx	197	ASP	C-N	-5.50	1.25	1.33
1	hT	1	PRO	N-CA	5.50	1.55	1.47
1	hU	201	ILE	CA-C	5.50	1.59	1.52
1	ix	141	ILE	CA-CB	5.50	1.60	1.54
1	iB	93	PRO	N-CA	5.50	1.54	1.47
1	jp	221	VAL	C-O	5.50	1.29	1.24
1	1Z	87	HIS	CE1-NE2	-5.50	1.27	1.32
1	kj	53	ASN	CA-CB	5.50	1.61	1.53
1	kR	57	ASN	C-N	5.50	1.41	1.33
1	kS	103	ASP	CA-C	5.50	1.59	1.52
1	lO	132	ARG	CA-C	-5.50	1.45	1.52
1	2Z	37	ILE	CA-C	5.50	1.58	1.52
1	4X	77	ALA	CA-C	5.50	1.59	1.52
1	5i	195	ASN	CA-CB	5.50	1.61	1.53
1	5V	62	HIS	CB-CG	-5.50	1.42	1.50
1	5Y	122	PRO	N-CD	-5.50	1.40	1.47
1	5Y	128	GLU	CA-CB	5.50	1.61	1.53
1	6M	1	PRO	N-CA	5.50	1.55	1.47
1	6Y	20	LEU	CA-CB	5.50	1.61	1.53
1	6Y	135	ILE	CA-C	5.50	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7X	174	ALA	C-N	5.50	1.41	1.33
1	7X	207	PRO	N-CA	-5.50	1.40	1.47
1	88	50	GLN	CA-C	5.50	1.59	1.52
1	8z	136	LEU	CA-CB	5.50	1.61	1.53
1	9e	200	THR	CA-C	5.50	1.59	1.52
1	9L	152	ASP	C-N	5.50	1.40	1.34
1	9Z	174	ALA	CA-C	5.50	1.60	1.52
1	ab	223	GLY	N-CA	5.50	1.52	1.44
1	bm	187	GLU	CA-C	5.50	1.60	1.52
1	bp	158	LYS	CA-CB	5.50	1.61	1.53
1	bA	37	ILE	CA-C	5.50	1.57	1.52
1	bZ	20	LEU	CA-C	5.50	1.59	1.52
1	1h	38	PRO	C-O	-5.50	1.17	1.24
1	cY	180	GLU	C-N	5.50	1.40	1.33
1	d6	5	ASN	C-O	5.50	1.30	1.24
1	dl	123	PRO	CA-C	5.50	1.59	1.52
1	dF	173	ARG	N-CA	5.50	1.53	1.46
1	dR	86	VAL	CA-CB	5.50	1.60	1.54
1	eW	198	CYS	CA-C	5.50	1.59	1.52
1	b	26	VAL	C-O	-5.50	1.17	1.24
1	T	93	PRO	C-N	5.50	1.40	1.33
1	1C	146	SER	N-CA	-5.50	1.40	1.46
1	gB	126	VAL	CA-C	5.50	1.59	1.52
1	gD	61	GLY	N-CA	-5.50	1.39	1.44
1	gR	30	LYS	CA-CB	5.50	1.62	1.53
1	gR	188	THR	CA-CB	5.50	1.62	1.53
1	h1	92	GLU	CA-C	-5.50	1.46	1.53
1	hr	166	ASP	CA-C	5.50	1.59	1.52
1	i1	94	GLY	CA-C	-5.50	1.44	1.51
1	1N	129	ILE	CA-C	5.50	1.59	1.52
1	ii	196	PRO	C-N	5.50	1.41	1.33
1	il	33	SER	C-N	5.50	1.38	1.33
1	iv	160	PRO	N-CA	-5.50	1.40	1.47
1	iA	213	GLU	C-O	-5.50	1.17	1.24
1	iJ	65	ALA	CA-C	-5.50	1.45	1.52
1	iN	34	PRO	N-CA	5.50	1.54	1.47
1	iO	148	THR	CA-C	5.50	1.59	1.52
1	iW	140	LYS	CA-C	5.50	1.59	1.52
1	j1	84	HIS	N-CA	-5.50	1.40	1.46
1	j2	190	LEU	CA-CB	5.50	1.61	1.53
1	j3	103	ASP	N-CA	-5.50	1.39	1.46
1	j5	17	PRO	C-N	5.50	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1U	226	HIS	ND1-CE1	5.50	1.38	1.32
1	jc	50	GLN	CA-CB	5.50	1.62	1.53
1	je	7	GLN	CA-CB	5.50	1.62	1.53
1	js	120	HIS	N-CA	-5.50	1.39	1.45
1	jU	87	HIS	N-CA	5.50	1.52	1.46
1	k0	195	ASN	CA-CB	5.50	1.62	1.53
1	22	11	VAL	CA-C	5.50	1.59	1.53
1	kK	107	THR	C-O	-5.50	1.17	1.24
1	kQ	200	THR	C-N	5.50	1.40	1.33
1	l5	225	GLY	N-CA	5.50	1.51	1.45
1	26	184	TRP	NE1-CE2	-5.50	1.31	1.37
1	lm	148	THR	C-N	5.50	1.41	1.33
1	lt	61	GLY	CA-C	-5.50	1.48	1.52
1	29	143	ARG	CD-NE	5.50	1.53	1.46
1	lI	182	LYS	CA-C	5.50	1.59	1.52
1	2b	147	PRO	CA-C	-5.50	1.44	1.52
1	2l	63	GLN	CA-CB	5.50	1.61	1.53
1	2z	35	GLU	CA-C	-5.50	1.45	1.52
1	2A	58	THR	CA-CB	-5.50	1.44	1.53
1	2A	173	ARG	CZ-NH2	-5.50	1.26	1.33
1	2N	18	ARG	CD-NE	5.50	1.53	1.46
1	3l	190	LEU	CA-CB	5.50	1.61	1.53
1	3m	166	ASP	CA-C	5.50	1.59	1.52
1	3n	204	ALA	N-CA	5.50	1.52	1.46
1	3u	95	GLN	CA-C	-5.50	1.46	1.52
1	3w	3	VAL	CA-CB	-5.50	1.47	1.54
1	3O	99	PRO	N-CA	-5.50	1.40	1.47
1	3S	64	ALA	CA-C	5.50	1.59	1.52
1	42	192	GLN	C-O	-5.50	1.17	1.24
1	4y	155	GLN	CA-CB	5.50	1.61	1.53
1	4O	122	PRO	CA-CB	-5.50	1.43	1.53
1	4U	60	GLY	C-N	5.50	1.41	1.33
1	4X	71	GLU	CA-C	-5.50	1.45	1.52
1	4X	93	PRO	C-N	5.50	1.39	1.33
1	59	149	SER	C-N	5.50	1.40	1.34
1	5i	17	PRO	N-CA	5.50	1.54	1.47
1	5F	204	ALA	CA-C	5.50	1.59	1.52
1	66	123	PRO	CA-C	-5.50	1.45	1.52
1	6d	201	ILE	C-N	5.50	1.40	1.33
1	6r	112	GLN	CA-C	5.50	1.59	1.52
1	6M	154	ARG	CD-NE	5.50	1.53	1.46
1	6U	99	PRO	CA-CB	5.50	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	77	150	ILE	CA-C	5.50	1.60	1.52
1	79	142	VAL	N-CA	-5.50	1.40	1.46
1	7J	124	ILE	CA-C	-5.50	1.48	1.52
1	88	224	PRO	CA-C	5.50	1.58	1.52
1	Z	118	MET	CG-SD	-5.50	1.67	1.80
1	ai	168	PHE	CA-CB	5.50	1.62	1.53
1	aI	93	PRO	CA-CB	5.50	1.61	1.53
1	aM	171	THR	CA-CB	5.50	1.61	1.53
1	aX	33	SER	CA-CB	5.50	1.62	1.53
1	bw	155	GLN	CA-CB	5.50	1.61	1.53
1	bJ	82	ARG	N-CA	5.50	1.53	1.46
1	ca	208	ALA	C-N	5.50	1.40	1.33
1	ce	195	ASN	CA-CB	5.50	1.61	1.53
1	1d	228	ALA	C-N	5.50	1.41	1.33
1	cS	133	TRP	C-N	5.50	1.40	1.33
1	1i	138	LEU	CA-CB	5.50	1.61	1.53
1	dc	26	VAL	C-N	5.50	1.40	1.33
1	dz	194	ALA	N-CA	-5.50	1.38	1.45
1	eq	140	LYS	CA-C	5.50	1.60	1.52
1	et	113	GLU	C-N	5.50	1.40	1.33
1	eQ	62	HIS	CE1-NE2	5.50	1.38	1.32
1	fo	28	GLU	CA-C	5.50	1.59	1.52
1	fC	102	SER	C-N	5.50	1.42	1.33
1	fT	189	LEU	CA-CB	5.50	1.62	1.53
1	fX	19	THR	N-CA	-5.50	1.39	1.46
1	g1	171	THR	CA-C	5.50	1.59	1.52
1	g	173	ARG	CA-CB	5.50	1.61	1.53
1	s	180	GLU	CA-CB	5.50	1.62	1.53
1	u	45	GLU	CA-C	5.50	1.60	1.52
1	F	200	THR	N-CA	5.50	1.52	1.46
1	M	153	ILE	N-CA	-5.50	1.39	1.46
1	gg	129	ILE	N-CA	5.50	1.52	1.46
1	gw	209	ALA	C-N	5.50	1.40	1.33
1	gz	20	LEU	CA-C	5.50	1.59	1.52
1	gH	75	GLU	CA-C	-5.50	1.45	1.52
1	gQ	140	LYS	CA-C	5.50	1.60	1.52
1	hb	136	LEU	N-CA	5.50	1.53	1.46
1	1I	85	PRO	CA-CB	-5.50	1.46	1.53
1	hq	124	ILE	CA-C	5.50	1.58	1.52
1	hE	82	ARG	CD-NE	5.50	1.53	1.46
1	hM	160	PRO	CA-CB	5.50	1.61	1.53
1	1M	224	PRO	N-CA	5.50	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hU	132	ARG	CD-NE	5.50	1.53	1.46
1	ie	218	CYS	C-N	5.50	1.40	1.33
1	iv	221	VAL	C-N	5.50	1.41	1.33
1	iH	36	VAL	N-CA	5.50	1.53	1.46
1	jk	53	ASN	N-CA	5.50	1.52	1.46
1	jx	69	LEU	C-N	5.50	1.41	1.33
1	jA	192	GLN	CA-CB	5.50	1.62	1.53
1	k4	46	GLY	C-N	-5.50	1.25	1.33
1	kv	142	VAL	N-CA	-5.50	1.39	1.46
1	25	211	LEU	CA-CB	5.50	1.62	1.53
1	l6	84	HIS	CG-ND1	5.50	1.44	1.38
1	lf	180	GLU	CA-C	5.50	1.59	1.52
1	ll	167	ARG	C-O	-5.50	1.17	1.24
1	lE	81	ASP	CA-CB	5.50	1.62	1.53
1	lI	160	PRO	CA-CB	5.50	1.57	1.53
1	lK	69	LEU	CA-CB	5.50	1.61	1.53
1	lM	190	LEU	CA-CB	5.50	1.61	1.53
1	lQ	123	PRO	N-CA	-5.50	1.40	1.47
1	2o	55	MET	CA-C	-5.50	1.45	1.52
1	2r	155	GLN	N-CA	-5.50	1.39	1.46
1	2s	19	THR	CA-C	-5.50	1.45	1.52
1	2z	63	GLN	CA-C	-5.50	1.45	1.52
1	2D	189	LEU	CA-C	-5.50	1.45	1.52
1	2I	39	MET	CA-CB	5.50	1.61	1.53
1	2I	184	TRP	NE1-CE2	-5.50	1.31	1.37
1	2N	15	ILE	CA-CB	-5.50	1.48	1.54
1	30	18	ARG	C-N	5.50	1.41	1.34
1	31	77	ALA	CA-C	-5.50	1.45	1.52
1	3b	172	LEU	N-CA	5.50	1.53	1.46
1	3b	191	VAL	C-N	5.50	1.41	1.33
1	3k	143	ARG	N-CA	5.50	1.53	1.46
1	3z	79	GLU	N-CA	-5.50	1.39	1.46
1	3Y	131	LYS	CA-CB	5.50	1.61	1.53
1	3Z	37	ILE	CA-C	5.50	1.58	1.52
1	4e	100	ARG	C-N	5.50	1.40	1.33
1	4X	73	ILE	N-CA	5.50	1.53	1.46
1	4X	86	VAL	CA-CB	-5.50	1.47	1.54
1	5f	2	ILE	CA-CB	5.50	1.60	1.54
1	5o	23	TRP	CA-CB	5.50	1.61	1.53
1	5E	58	THR	N-CA	5.50	1.53	1.46
1	5O	62	HIS	CD2-NE2	5.50	1.43	1.37
1	62	47	ALA	CA-C	-5.50	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6o	143	ARG	CZ-NH2	-5.50	1.26	1.33
1	6N	127	GLY	C-N	5.50	1.41	1.33
1	6Q	104	ILE	CA-C	5.50	1.59	1.52
1	6X	54	THR	C-N	5.50	1.41	1.33
1	72	163	ASP	CA-CB	5.50	1.61	1.53
1	7c	125	PRO	CA-CB	5.50	1.59	1.53
1	7t	126	VAL	CA-C	5.50	1.60	1.52
1	7F	86	VAL	N-CA	5.50	1.53	1.46
1	7H	128	GLU	CA-CB	5.50	1.61	1.53
1	8j	13	GLN	C-N	5.50	1.40	1.33
1	8m	159	GLU	CA-CB	5.50	1.62	1.53
1	8r	211	LEU	C-N	5.50	1.40	1.33
1	8v	208	ALA	C-N	5.50	1.41	1.33
1	8B	1	PRO	N-CD	5.50	1.55	1.47
1	8D	127	GLY	N-CA	-5.50	1.39	1.45
1	8U	139	ASN	CA-CB	5.50	1.62	1.53
1	91	16	SER	C-N	5.50	1.39	1.34
1	9O	120	HIS	CD2-NE2	5.50	1.43	1.37
1	9U	213	GLU	CA-CB	5.50	1.62	1.53
1	a2	129	ILE	CA-CB	-5.50	1.48	1.54
1	af	120	HIS	ND1-CE1	5.50	1.38	1.32
1	ar	187	GLU	C-N	5.50	1.41	1.33
1	aJ	171	THR	CA-C	5.50	1.59	1.52
1	aL	148	THR	C-N	5.50	1.40	1.33
1	bh	115	ILE	C-N	-5.50	1.27	1.33
1	bm	85	PRO	C-N	-5.50	1.27	1.34
1	co	199	LYS	C-N	5.50	1.41	1.33
1	cG	186	THR	C-N	5.50	1.42	1.33
1	cJ	162	ARG	CA-CB	5.50	1.61	1.53
1	cM	173	ARG	N-CA	5.50	1.52	1.46
1	cV	12	HIS	CB-CG	5.50	1.57	1.50
1	d1	131	LYS	C-N	5.50	1.41	1.33
1	d8	18	ARG	CD-NE	5.50	1.53	1.46
1	dm	39	MET	C-O	5.50	1.30	1.24
1	1k	67	GLN	CA-CB	5.50	1.61	1.53
1	e9	180	GLU	CA-C	-5.50	1.46	1.52
1	eb	203	LYS	CA-C	-5.50	1.45	1.52
1	eh	71	GLU	CA-C	-5.50	1.45	1.52
1	1r	44	SER	CA-CB	5.50	1.62	1.53
1	eB	15	ILE	N-CA	5.50	1.52	1.46
1	eQ	167	ARG	CA-C	-5.50	1.45	1.52
1	f2	40	PHE	CA-CB	5.50	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f4	87	HIS	N-CA	-5.50	1.39	1.46
1	fj	229	ARG	CA-CB	5.50	1.61	1.53
1	fv	71	GLU	N-CA	5.50	1.53	1.46
1	7	62	HIS	ND1-CE1	5.50	1.38	1.32
1	i0	139	ASN	CA-CB	5.50	1.62	1.53
1	iF	156	GLY	C-N	-5.50	1.27	1.34
1	jj	112	GLN	C-N	5.50	1.40	1.33
1	lu	143	ARG	CD-NE	5.50	1.53	1.46
1	2E	207	PRO	N-CD	5.50	1.55	1.47
1	2U	41	SER	N-CA	-5.50	1.39	1.46
1	3Q	4	GLN	C-N	5.50	1.42	1.33
1	4a	82	ARG	CA-C	5.50	1.59	1.52
1	4j	136	LEU	C-N	5.50	1.40	1.33
1	4L	87	HIS	CG-CD2	5.50	1.41	1.35
1	4R	117	TRP	CA-CB	5.50	1.61	1.53
1	57	82	ARG	C-N	5.50	1.42	1.33
1	7r	159	GLU	CA-C	5.50	1.60	1.53
1	7M	91	ILE	N-CA	5.50	1.53	1.46
1	8r	60	GLY	C-N	5.50	1.39	1.33
1	9o	63	GLN	CA-C	-5.50	1.45	1.52
1	9s	18	ARG	N-CA	5.50	1.52	1.46
1	9D	11	VAL	CA-C	5.50	1.59	1.52
1	9N	114	GLN	CA-C	5.50	1.59	1.52
1	af	140	LYS	CA-CB	5.50	1.61	1.53
1	aF	191	VAL	CA-C	-5.50	1.45	1.52
1	aJ	123	PRO	C-N	5.50	1.38	1.33
1	b8	202	LEU	CA-CB	5.50	1.62	1.53
1	cz	41	SER	CA-CB	5.50	1.61	1.53
1	dV	91	ILE	N-CA	-5.50	1.39	1.46
1	er	73	ILE	C-N	5.50	1.41	1.33
1	eF	33	SER	CA-CB	5.50	1.61	1.54
1	fw	99	PRO	CA-CB	5.50	1.60	1.53
1	g4	109	SER	N-CA	5.50	1.52	1.45
1	u	174	ALA	C-N	5.50	1.42	1.33
1	R	26	VAL	C-N	5.50	1.40	1.33
1	X	31	ALA	CA-CB	5.50	1.61	1.53
1	ga	189	LEU	CA-C	-5.49	1.45	1.52
1	gm	229	ARG	CD-NE	5.49	1.53	1.46
1	gV	130	TYR	N-CA	-5.49	1.39	1.46
1	hg	184	TRP	C-N	5.49	1.41	1.34
1	hP	125	PRO	C-N	5.49	1.40	1.34
1	hQ	165	VAL	N-CA	-5.49	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hS	161	PHE	CA-C	5.49	1.59	1.52
1	1M	189	LEU	CA-C	-5.49	1.45	1.52
1	im	70	LYS	C-N	5.49	1.41	1.33
1	iy	42	ALA	N-CA	-5.49	1.39	1.46
1	iH	3	VAL	CA-CB	5.49	1.61	1.54
1	1R	101	GLY	C-O	-5.49	1.17	1.23
1	iO	112	GLN	CA-C	5.49	1.60	1.52
1	j7	173	ARG	N-CA	-5.49	1.39	1.46
1	jf	148	THR	C-N	5.49	1.40	1.33
1	jx	149	SER	N-CA	5.49	1.52	1.45
1	jy	18	ARG	CD-NE	5.49	1.53	1.46
1	jB	228	ALA	C-N	5.49	1.40	1.33
1	jK	64	ALA	CA-C	-5.49	1.45	1.52
1	jP	70	LYS	N-CA	-5.49	1.39	1.46
1	jW	20	LEU	N-CA	5.49	1.53	1.46
1	ks	87	HIS	ND1-CE1	5.49	1.38	1.32
1	23	82	ARG	N-CA	-5.49	1.39	1.46
1	kI	3	VAL	C-N	5.49	1.41	1.33
1	lh	9	GLN	CA-C	-5.49	1.46	1.52
1	ls	228	ALA	N-CA	-5.49	1.39	1.46
1	lx	84	HIS	CD2-NE2	5.49	1.43	1.37
1	lE	32	PHE	CG-CD1	5.49	1.50	1.38
1	lF	45	GLU	N-CA	-5.49	1.39	1.46
1	lF	181	VAL	C-N	5.49	1.41	1.33
1	2f	40	PHE	CA-CB	5.49	1.61	1.53
1	2f	176	GLN	CA-C	-5.49	1.45	1.52
1	2C	18	ARG	N-CA	-5.49	1.39	1.46
1	2K	104	ILE	N-CA	5.49	1.53	1.46
1	35	134	ILE	C-N	5.49	1.40	1.33
1	37	113	GLU	CA-C	5.49	1.59	1.52
1	3v	230	VAL	C-N	5.49	1.41	1.33
1	40	202	LEU	CA-CB	5.49	1.62	1.53
1	4f	7	GLN	CA-CB	5.49	1.61	1.53
1	4f	150	ILE	C-O	-5.49	1.17	1.24
1	4l	10	MET	CA-CB	5.49	1.62	1.53
1	4P	84	HIS	CA-CB	5.49	1.61	1.53
1	5g	216	THR	N-CA	5.49	1.53	1.46
1	5P	75	GLU	CA-CB	5.49	1.61	1.53
1	6v	82	ARG	CD-NE	5.49	1.53	1.46
1	6M	145	TYR	CA-CB	5.49	1.61	1.53
1	71	128	GLU	N-CA	-5.49	1.39	1.46
1	74	93	PRO	C-N	5.49	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	75	31	ALA	C-O	-5.49	1.18	1.24
1	75	223	GLY	C-N	5.49	1.41	1.34
1	7w	183	ASN	C-N	5.49	1.41	1.33
1	7D	132	ARG	CD-NE	5.49	1.53	1.46
1	7Z	102	SER	CA-C	-5.49	1.45	1.52
1	86	204	ALA	CA-C	5.49	1.59	1.52
1	8a	95	GLN	N-CA	-5.49	1.39	1.45
1	8h	170	LYS	C-N	5.49	1.41	1.33
1	8k	87	HIS	CA-C	5.49	1.59	1.52
1	8O	201	ILE	CA-C	5.49	1.60	1.53
1	9a	71	GLU	N-CA	5.49	1.53	1.46
1	9n	154	ARG	CA-C	-5.49	1.45	1.52
1	9I	176	GLN	CA-CB	5.49	1.60	1.53
1	9S	12	HIS	ND1-CE1	5.49	1.38	1.32
1	9S	159	GLU	CA-C	5.49	1.58	1.52
1	9Y	179	GLN	C-O	-5.49	1.17	1.24
1	a3	5	ASN	N-CA	-5.49	1.38	1.45
1	a3	126	VAL	C-N	5.49	1.40	1.33
1	ag	157	PRO	N-CA	-5.49	1.40	1.47
1	an	154	ARG	NE-CZ	5.49	1.39	1.33
1	ar	31	ALA	C-O	-5.49	1.17	1.24
1	au	1	PRO	N-CD	5.49	1.55	1.47
1	bm	223	GLY	N-CA	5.49	1.52	1.44
1	bs	122	PRO	CA-C	5.49	1.57	1.52
1	bN	79	GLU	CA-C	-5.49	1.45	1.52
1	c3	24	VAL	N-CA	-5.49	1.40	1.46
1	cc	148	THR	N-CA	5.49	1.53	1.46
1	cY	84	HIS	N-CA	-5.49	1.40	1.46
1	dn	140	LYS	N-CA	5.49	1.53	1.46
1	dK	189	LEU	CA-CB	5.49	1.62	1.53
1	ed	223	GLY	N-CA	5.49	1.52	1.44
1	ei	226	HIS	CA-C	5.49	1.60	1.52
1	ej	135	ILE	CA-CB	-5.49	1.47	1.54
1	eq	64	ALA	CA-CB	-5.49	1.44	1.53
1	eN	72	THR	C-N	5.49	1.40	1.33
1	eO	76	GLU	N-CA	5.49	1.53	1.46
1	eP	77	ALA	CA-CB	5.49	1.61	1.53
1	f7	170	LYS	C-O	-5.49	1.17	1.24
1	fb	73	ILE	N-CA	5.49	1.52	1.46
1	fl	52	LEU	N-CA	-5.49	1.39	1.46
1	fr	147	PRO	N-CD	5.49	1.55	1.47
1	fN	161	PHE	C-N	5.49	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g3	51	ASP	CA-CB	5.49	1.61	1.53
1	m	87	HIS	CB-CG	5.49	1.57	1.50
1	n	160	PRO	CA-CB	5.49	1.60	1.53
1	s	142	VAL	C-N	5.49	1.41	1.33
1	S	115	ILE	CA-CB	5.49	1.60	1.54
1	W	186	THR	N-CA	5.49	1.53	1.46
1	X	64	ALA	C-N	5.49	1.40	1.33
1	5	18	ARG	CA-CB	5.49	1.62	1.53
1	gl	229	ARG	CZ-NH2	-5.49	1.26	1.33
1	gJ	216	THR	CA-C	5.49	1.60	1.52
1	gW	53	ASN	CA-C	5.49	1.60	1.52
1	hP	1	PRO	N-CD	5.49	1.55	1.47
1	i8	83	LEU	N-CA	5.49	1.53	1.46
1	in	70	LYS	CA-CB	5.49	1.61	1.53
1	jh	138	LEU	CB-CG	5.49	1.64	1.53
1	k7	144	MET	CA-C	5.49	1.59	1.52
1	li	53	ASN	N-CA	-5.49	1.39	1.46
1	lI	99	PRO	CA-C	-5.49	1.46	1.52
1	2l	203	LYS	CA-CB	5.49	1.61	1.53
1	2x	213	GLU	C-O	-5.49	1.17	1.24
1	3i	197	ASP	N-CA	-5.49	1.39	1.46
1	40	31	ALA	N-CA	5.49	1.53	1.46
1	4B	12	HIS	ND1-CE1	5.49	1.38	1.32
1	5h	193	ASN	C-N	5.49	1.40	1.33
1	5H	130	TYR	N-CA	5.49	1.53	1.46
1	5J	21	ASN	N-CA	-5.49	1.39	1.46
1	5Y	200	THR	C-N	5.49	1.40	1.33
1	6j	228	ALA	C-N	5.49	1.40	1.33
1	6x	71	GLU	C-O	-5.49	1.17	1.24
1	6P	116	GLY	C-N	5.49	1.41	1.34
1	7n	46	GLY	CA-C	5.49	1.59	1.51
1	8c	168	PHE	CA-CB	5.49	1.61	1.53
1	8Y	194	ALA	N-CA	-5.49	1.39	1.46
1	9c	217	ALA	C-O	-5.49	1.17	1.24
1	9u	212	GLU	CA-CB	5.49	1.63	1.53
1	ae	216	THR	CA-C	-5.49	1.46	1.52
1	ao	74	ASN	CA-CB	5.49	1.61	1.53
1	as	18	ARG	CD-NE	5.49	1.53	1.46
1	b4	5	ASN	C-O	-5.49	1.17	1.24
1	bF	207	PRO	CA-C	5.49	1.59	1.52
1	cf	97	ARG	CD-NE	5.49	1.53	1.46
1	cv	69	LEU	CA-CB	5.49	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cx	209	ALA	C-O	-5.49	1.17	1.23
1	d3	202	LEU	C-N	5.49	1.41	1.33
1	e7	161	PHE	CB-CG	5.49	1.63	1.50
1	em	58	THR	CA-C	-5.49	1.45	1.52
1	fr	221	VAL	CA-C	-5.49	1.46	1.53
1	g	97	ARG	NE-CZ	-5.49	1.27	1.33
1	v	91	ILE	CA-C	5.49	1.59	1.52
1	C	122	PRO	N-CD	5.49	1.55	1.47
1	R	17	PRO	N-CD	-5.49	1.40	1.47
1	gh	126	VAL	CA-CB	5.49	1.60	1.54
1	gu	66	MET	CA-C	5.49	1.60	1.52
1	hv	218	CYS	CA-C	-5.49	1.45	1.52
1	hR	59	VAL	N-CA	-5.49	1.39	1.46
1	hZ	179	GLN	CA-C	5.49	1.59	1.52
1	ii	3	VAL	CA-CB	5.49	1.60	1.53
1	in	86	VAL	C-O	-5.49	1.18	1.24
1	iu	53	ASN	N-CA	-5.49	1.39	1.46
1	iB	139	ASN	CA-CB	5.49	1.61	1.53
1	iE	142	VAL	CA-CB	-5.49	1.48	1.54
1	iS	141	ILE	N-CA	5.49	1.53	1.46
1	j3	149	SER	C-N	5.49	1.40	1.34
1	j9	141	ILE	CA-CB	-5.49	1.47	1.54
1	k6	187	GLU	CA-C	5.49	1.59	1.52
1	k7	181	VAL	CA-C	5.49	1.59	1.52
1	k9	212	GLU	C-N	5.49	1.40	1.33
1	kh	164	TYR	CA-CB	5.49	1.61	1.53
1	kl	89	GLY	N-CA	5.49	1.52	1.44
1	ko	221	VAL	C-N	5.49	1.41	1.33
1	25	188	THR	CA-CB	5.49	1.62	1.53
1	2b	95	GLN	C-N	-5.49	1.25	1.33
1	2u	123	PRO	C-N	5.49	1.38	1.33
1	2v	202	LEU	CA-C	5.49	1.60	1.52
1	2B	158	LYS	N-CA	-5.49	1.39	1.46
1	2Y	95	GLN	CA-C	-5.49	1.46	1.52
1	31	24	VAL	CA-CB	5.49	1.60	1.54
1	31	162	ARG	CD-NE	5.49	1.53	1.46
1	3q	217	ALA	N-CA	-5.49	1.39	1.46
1	3Q	62	HIS	CB-CG	-5.49	1.42	1.50
1	4j	167	ARG	CD-NE	5.49	1.53	1.46
1	4l	164	TYR	N-CA	-5.49	1.39	1.46
1	4n	73	ILE	CB-CG1	5.49	1.64	1.53
1	4v	116	GLY	CA-C	5.49	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4G	7	GLN	C-N	5.49	1.39	1.33
1	56	32	PHE	CA-C	5.49	1.60	1.53
1	5c	128	GLU	C-N	5.49	1.40	1.33
1	5h	44	SER	C-N	5.49	1.41	1.33
1	5i	162	ARG	CD-NE	5.49	1.53	1.46
1	5j	169	TYR	C-N	5.49	1.41	1.33
1	60	12	HIS	C-O	5.49	1.30	1.24
1	6h	102	SER	CA-CB	5.49	1.63	1.53
1	6N	6	LEU	N-CA	5.49	1.53	1.46
1	72	95	GLN	N-CA	5.49	1.52	1.45
1	77	229	ARG	CD-NE	5.49	1.53	1.46
1	7e	215	MET	N-CA	-5.49	1.38	1.46
1	7S	71	GLU	CA-C	5.49	1.60	1.52
1	85	151	LEU	CA-C	5.49	1.59	1.52
1	8b	162	ARG	C-O	5.49	1.30	1.24
1	8J	84	HIS	CA-C	5.49	1.58	1.52
1	9g	23	TRP	C-N	5.49	1.40	1.33
1	9h	28	GLU	N-CA	5.49	1.53	1.46
1	9z	209	ALA	CA-C	5.49	1.60	1.52
1	9P	215	MET	C-O	-5.49	1.17	1.24
1	9Z	138	LEU	CA-C	5.49	1.60	1.52
1	ab	3	VAL	CA-C	-5.49	1.45	1.52
1	af	98	GLU	CA-C	5.49	1.59	1.52
1	ah	21	ASN	C-N	5.49	1.41	1.33
1	an	205	LEU	CA-CB	5.49	1.62	1.53
1	ao	78	ALA	CA-C	5.49	1.59	1.52
1	ay	218	CYS	CA-C	5.49	1.60	1.53
1	aG	39	MET	C-O	-5.49	1.17	1.24
1	b0	98	GLU	CA-C	5.49	1.59	1.52
1	b3	42	ALA	C-O	-5.49	1.17	1.24
1	bb	53	ASN	CA-C	5.49	1.59	1.52
1	bh	41	SER	N-CA	-5.49	1.39	1.46
1	bn	77	ALA	CA-C	-5.49	1.45	1.52
1	bq	211	LEU	CA-C	5.49	1.59	1.52
1	bH	23	TRP	CA-CB	5.49	1.61	1.53
1	bK	116	GLY	CA-C	5.49	1.58	1.52
1	bV	73	ILE	CA-CB	-5.49	1.48	1.54
1	c5	12	HIS	ND1-CE1	5.49	1.38	1.32
1	cO	34	PRO	CA-CB	5.49	1.61	1.53
1	d5	47	ALA	CA-C	5.49	1.59	1.52
1	dl	137	GLY	C-O	-5.49	1.17	1.23
1	dX	201	ILE	C-N	5.49	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e9	143	ARG	N-CA	5.49	1.52	1.46
1	ed	35	GLU	N-CA	-5.49	1.39	1.46
1	eh	120	HIS	ND1-CE1	5.49	1.38	1.32
1	eD	154	ARG	CD-NE	5.49	1.53	1.46
1	eI	6	LEU	CA-C	-5.49	1.45	1.52
1	1t	84	HIS	ND1-CE1	5.49	1.38	1.32
1	ff	120	HIS	N-CA	5.49	1.52	1.45
1	fH	187	GLU	C-N	5.49	1.41	1.33
1	fJ	18	ARG	CA-C	5.49	1.59	1.52
1	fJ	39	MET	CA-CB	5.49	1.62	1.53
1	g5	126	VAL	N-CA	5.49	1.53	1.46
1	d	200	THR	N-CA	5.49	1.52	1.46
1	A	87	HIS	CD2-NE2	5.49	1.43	1.37
1	D	204	ALA	C-N	-5.49	1.26	1.33
1	7	148	THR	N-CA	-5.49	1.38	1.45
1	gb	79	GLU	CA-C	5.49	1.59	1.52
1	gb	132	ARG	N-CA	5.49	1.53	1.46
1	gj	217	ALA	CA-C	5.49	1.59	1.52
1	gv	165	VAL	CA-CB	-5.49	1.47	1.54
1	gS	227	LYS	CA-C	5.49	1.59	1.52
1	hg	61	GLY	C-O	-5.49	1.18	1.24
1	hD	126	VAL	CA-CB	-5.49	1.47	1.54
1	hE	133	TRP	CZ2-CH2	5.49	1.47	1.37
1	hE	145	TYR	CA-C	-5.49	1.45	1.52
1	hM	129	ILE	C-N	-5.49	1.26	1.34
1	is	8	GLY	N-CA	5.49	1.53	1.45
1	iu	55	MET	CA-CB	5.49	1.61	1.53
1	j3	105	ALA	N-CA	-5.49	1.38	1.46
1	jh	86	VAL	CA-C	-5.49	1.45	1.52
1	jn	137	GLY	C-N	5.49	1.41	1.33
1	js	20	LEU	CA-CB	5.49	1.61	1.53
1	jX	14	ALA	C-N	-5.49	1.26	1.33
1	k7	44	SER	CA-C	-5.49	1.45	1.52
1	kc	143	ARG	CA-C	5.49	1.59	1.52
1	kc	196	PRO	CA-CB	-5.49	1.46	1.53
1	km	216	THR	CA-C	5.49	1.60	1.52
1	kv	191	VAL	CA-CB	5.49	1.62	1.54
1	kB	3	VAL	N-CA	5.49	1.52	1.46
1	kG	100	ARG	CA-C	5.49	1.60	1.53
1	kS	213	GLU	CA-CB	5.49	1.61	1.53
1	28	5	ASN	CA-CB	5.49	1.62	1.53
1	lw	229	ARG	CD-NE	5.49	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2L	104	ILE	CA-CB	-5.49	1.48	1.54
1	2Q	230	VAL	CA-C	-5.49	1.46	1.52
1	2W	228	ALA	CA-CB	5.49	1.62	1.53
1	39	62	HIS	CG-CD2	-5.49	1.29	1.35
1	3x	207	PRO	N-CD	5.49	1.55	1.47
1	3J	82	ARG	CA-C	-5.49	1.45	1.52
1	42	69	LEU	N-CA	-5.49	1.39	1.46
1	45	217	ALA	N-CA	5.49	1.53	1.45
1	49	12	HIS	CA-C	5.49	1.59	1.52
1	4y	197	ASP	N-CA	5.49	1.53	1.46
1	4J	141	ILE	N-CA	5.49	1.53	1.46
1	4V	19	THR	C-N	5.49	1.41	1.33
1	57	101	GLY	C-N	5.49	1.41	1.34
1	5v	176	GLN	CA-CB	5.49	1.63	1.53
1	5x	88	ALA	C-N	5.49	1.41	1.33
1	69	75	GLU	CA-C	5.49	1.59	1.52
1	69	144	MET	CA-CB	5.49	1.61	1.53
1	6S	119	THR	N-CA	5.49	1.53	1.46
1	73	77	ALA	CA-C	5.49	1.59	1.52
1	7a	14	ALA	C-N	5.49	1.40	1.33
1	8n	206	GLY	C-N	5.49	1.39	1.34
1	8z	1	PRO	N-CD	5.49	1.55	1.47
1	8A	12	HIS	ND1-CE1	5.49	1.38	1.32
1	8I	84	HIS	ND1-CE1	5.49	1.38	1.32
1	8Z	42	ALA	N-CA	-5.49	1.39	1.46
1	8Z	55	MET	N-CA	-5.49	1.39	1.46
1	94	14	ALA	N-CA	5.49	1.52	1.46
1	96	195	ASN	CA-CB	5.49	1.62	1.53
1	98	219	GLN	N-CA	5.49	1.53	1.46
1	9l	159	GLU	C-N	5.49	1.40	1.33
1	9m	162	ARG	CD-NE	5.49	1.53	1.46
1	9w	162	ARG	CD-NE	5.49	1.53	1.46
1	9L	126	VAL	N-CA	5.49	1.53	1.46
1	9M	105	ALA	C-N	5.49	1.41	1.33
1	9V	117	TRP	C-N	5.49	1.41	1.33
1	9Y	100	ARG	CD-NE	5.49	1.53	1.46
1	Z	18	ARG	CA-C	5.49	1.60	1.52
1	av	92	GLU	CA-CB	5.49	1.61	1.53
1	13	97	ARG	CA-CB	5.49	1.62	1.53
1	aE	168	PHE	C-O	5.49	1.30	1.24
1	aV	154	ARG	CD-NE	5.49	1.53	1.46
1	aW	118	MET	CA-C	-5.49	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bw	115	ILE	C-N	5.49	1.40	1.33
1	bz	204	ALA	C-N	5.49	1.41	1.33
1	bF	123	PRO	C-N	5.49	1.38	1.33
1	c8	54	THR	N-CA	5.49	1.53	1.46
1	ca	226	HIS	ND1-CE1	-5.49	1.27	1.32
1	cm	159	GLU	CA-C	5.49	1.59	1.52
1	cu	185	MET	C-O	-5.49	1.17	1.24
1	cx	195	ASN	CA-C	5.49	1.59	1.53
1	d1	196	PRO	CA-C	-5.49	1.44	1.52
1	d7	226	HIS	CG-ND1	-5.49	1.32	1.38
1	1j	37	ILE	CA-CB	5.49	1.57	1.53
1	dp	212	GLU	CA-C	5.49	1.60	1.52
1	dD	151	LEU	CA-C	-5.49	1.45	1.52
1	dZ	147	PRO	CA-C	5.49	1.60	1.52
1	e7	6	LEU	CA-CB	5.49	1.62	1.53
1	e8	101	GLY	CA-C	-5.49	1.46	1.52
1	eA	175	GLU	N-CA	-5.49	1.38	1.46
1	ff	12	HIS	CA-C	-5.49	1.45	1.52
1	fn	166	ASP	N-CA	5.49	1.53	1.46
1	fp	181	VAL	CA-C	5.49	1.59	1.52
1	fu	84	HIS	C-O	-5.49	1.20	1.25
1	fB	64	ALA	C-O	-5.49	1.17	1.24
1	A	50	GLN	C-N	5.49	1.41	1.33
1	3	153	ILE	CA-CB	5.49	1.60	1.53
1	gb	138	LEU	N-CA	5.49	1.52	1.46
1	h4	219	GLN	C-N	5.49	1.41	1.33
1	1O	100	ARG	CD-NE	5.49	1.53	1.46
1	iz	51	ASP	CA-C	5.49	1.59	1.52
1	1R	163	ASP	CA-CB	5.49	1.62	1.53
1	iR	87	HIS	C-O	5.49	1.30	1.24
1	j7	89	GLY	CA-C	-5.49	1.44	1.51
1	1U	135	ILE	N-CA	5.49	1.53	1.46
1	jr	75	GLU	C-N	5.49	1.41	1.33
1	jZ	139	ASN	N-CA	-5.49	1.39	1.46
1	kc	83	LEU	CA-C	5.49	1.59	1.52
1	la	158	LYS	CA-C	5.49	1.59	1.52
1	2q	168	PHE	CA-C	5.49	1.59	1.52
1	2X	68	MET	CA-C	5.49	1.60	1.52
1	39	78	ALA	C-N	5.49	1.40	1.33
1	3R	89	GLY	N-CA	5.49	1.52	1.44
1	4U	167	ARG	C-N	5.49	1.41	1.33
1	5q	149	SER	CB-OG	5.49	1.53	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6y	80	TRP	NE1-CE2	-5.49	1.31	1.37
1	74	87	HIS	CG-ND1	5.49	1.44	1.38
1	7x	110	THR	CB-OG1	-5.49	1.34	1.43
1	7E	100	ARG	CD-NE	5.49	1.53	1.46
1	7I	1	PRO	C-N	-5.49	1.27	1.33
1	7M	134	ILE	C-N	5.49	1.40	1.33
1	8g	96	MET	C-N	5.49	1.40	1.33
1	8S	124	ILE	CA-C	-5.49	1.48	1.53
1	9g	67	GLN	C-N	5.49	1.40	1.33
1	9H	80	TRP	N-CA	-5.49	1.39	1.46
1	a1	44	SER	CA-CB	5.49	1.60	1.53
1	aj	188	THR	CA-C	-5.49	1.47	1.52
1	17	3	VAL	CA-CB	-5.49	1.46	1.55
1	bO	111	LEU	C-N	5.49	1.41	1.33
1	cb	52	LEU	CA-CB	5.49	1.61	1.53
1	ch	49	PRO	C-N	5.49	1.41	1.33
1	cC	183	ASN	C-N	5.49	1.41	1.33
1	cK	3	VAL	N-CA	-5.49	1.39	1.46
1	cU	182	LYS	C-N	5.49	1.40	1.33
1	d5	164	TYR	C-N	5.49	1.40	1.33
1	dk	229	ARG	CA-C	-5.49	1.45	1.52
1	dy	87	HIS	CB-CG	5.49	1.57	1.50
1	dI	188	THR	CA-C	-5.49	1.45	1.53
1	et	85	PRO	CA-C	5.49	1.59	1.52
1	eR	169	TYR	CA-C	-5.49	1.45	1.52
1	eX	130	TYR	CA-CB	5.49	1.61	1.53
1	f7	163	ASP	C-N	5.49	1.41	1.33
1	fY	196	PRO	CA-CB	5.49	1.61	1.53
1	g	90	PRO	CA-C	-5.49	1.47	1.53
1	g8	60	GLY	CA-C	-5.49	1.44	1.51
1	gb	47	ALA	CA-CB	5.49	1.62	1.53
1	1C	216	THR	CB-OG1	-5.49	1.34	1.43
1	go	5	ASN	CA-CB	5.49	1.62	1.53
1	gz	144	MET	C-O	-5.49	1.17	1.24
1	gH	39	MET	CA-C	5.49	1.59	1.52
1	1I	225	GLY	N-CA	5.49	1.53	1.45
1	hl	103	ASP	N-CA	-5.49	1.39	1.46
1	hs	163	ASP	CA-C	5.49	1.59	1.52
1	hN	128	GLU	N-CA	-5.49	1.39	1.46
1	hS	140	LYS	CA-C	5.49	1.59	1.52
1	i2	167	ARG	CD-NE	5.49	1.53	1.46
1	ib	159	GLU	CA-C	-5.49	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	in	139	ASN	C-N	5.49	1.41	1.33
1	iw	99	PRO	CA-C	5.49	1.59	1.52
1	iG	26	VAL	C-N	5.49	1.40	1.33
1	iM	45	GLU	CA-C	-5.49	1.45	1.52
1	iT	101	GLY	N-CA	5.49	1.52	1.45
1	j5	167	ARG	N-CA	-5.49	1.39	1.46
1	j6	203	LYS	CA-CB	5.49	1.62	1.53
1	jt	83	LEU	CA-C	5.49	1.60	1.52
1	jM	143	ARG	C-N	5.49	1.40	1.33
1	kh	42	ALA	CA-C	-5.49	1.45	1.52
1	ks	28	GLU	CA-C	-5.49	1.45	1.52
1	kA	73	ILE	C-N	5.49	1.41	1.33
1	23	23	TRP	CA-C	5.49	1.59	1.52
1	la	9	GLN	CA-C	5.49	1.59	1.52
1	lm	22	ALA	C-O	-5.49	1.17	1.24
1	lm	133	TRP	C-O	-5.49	1.17	1.24
1	lu	111	LEU	CA-CB	5.49	1.61	1.53
1	lA	206	GLY	N-CA	5.49	1.52	1.44
1	lG	37	ILE	CA-CB	5.49	1.61	1.54
1	2o	161	PHE	C-N	5.49	1.41	1.33
1	2w	168	PHE	CA-CB	5.49	1.62	1.53
1	2K	159	GLU	C-N	5.49	1.41	1.33
1	3k	230	VAL	C-N	5.49	1.41	1.33
1	3s	149	SER	CA-CB	5.49	1.63	1.53
1	3v	100	ARG	CA-C	-5.49	1.45	1.53
1	3F	84	HIS	CA-C	-5.49	1.45	1.52
1	3Y	152	ASP	CA-CB	5.49	1.62	1.53
1	45	59	VAL	N-CA	-5.49	1.39	1.46
1	4r	212	GLU	CA-CB	5.49	1.61	1.53
1	4K	203	LYS	N-CA	5.49	1.52	1.46
1	59	172	LEU	CA-CB	5.49	1.62	1.53
1	5c	162	ARG	CD-NE	5.49	1.53	1.46
1	5p	77	ALA	CA-C	5.49	1.59	1.52
1	5u	84	HIS	CA-CB	5.49	1.60	1.53
1	5K	121	ASN	C-O	-5.49	1.18	1.25
1	67	86	VAL	CA-C	5.49	1.58	1.52
1	6q	95	GLN	CA-CB	5.49	1.61	1.53
1	6G	63	GLN	CA-CB	5.49	1.62	1.53
1	7h	60	GLY	C-O	5.49	1.28	1.23
1	7o	154	ARG	C-O	5.49	1.31	1.24
1	7U	68	MET	CA-CB	5.49	1.61	1.53
1	89	207	PRO	CA-CB	5.49	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8Q	50	GLN	C-N	5.49	1.41	1.33
1	91	206	GLY	N-CA	5.49	1.52	1.44
1	9a	129	ILE	CA-C	-5.49	1.46	1.52
1	Y	15	ILE	C-O	-5.49	1.18	1.24
1	9R	139	ASN	CA-C	-5.49	1.45	1.52
1	a4	58	THR	C-N	5.49	1.40	1.33
1	b6	45	GLU	C-N	5.49	1.38	1.33
1	br	84	HIS	C-O	-5.49	1.17	1.24
1	bA	129	ILE	CA-C	-5.49	1.46	1.52
1	1c	99	PRO	N-CA	-5.49	1.40	1.46
1	cj	227	LYS	C-N	5.49	1.40	1.33
1	1e	17	PRO	C-N	5.49	1.41	1.33
1	cy	132	ARG	CD-NE	5.49	1.53	1.46
1	cY	203	LYS	CA-CB	5.49	1.62	1.53
1	df	125	PRO	CA-CB	-5.49	1.48	1.53
1	dm	172	LEU	CA-C	-5.49	1.45	1.52
1	dv	3	VAL	N-CA	-5.49	1.39	1.46
1	dz	198	CYS	CA-CB	5.49	1.62	1.53
1	dJ	182	LYS	N-CA	5.49	1.52	1.46
1	e6	171	THR	N-CA	5.49	1.52	1.46
1	ek	194	ALA	CA-CB	5.49	1.62	1.53
1	eP	31	ALA	CA-C	5.49	1.58	1.53
1	eU	149	SER	N-CA	-5.49	1.39	1.45
1	eZ	123	PRO	C-N	5.49	1.38	1.33
1	f6	115	ILE	CB-CG1	5.49	1.64	1.53
1	fg	23	TRP	CA-CB	5.49	1.61	1.53
1	fo	111	LEU	C-N	-5.49	1.26	1.33
1	1z	183	ASN	CA-C	5.49	1.60	1.52
1	g5	211	LEU	CA-CB	5.49	1.63	1.53
1	a	98	GLU	CA-C	-5.49	1.47	1.53
1	w	63	GLN	C-N	5.49	1.41	1.33
1	J	18	ARG	CZ-NH2	-5.49	1.26	1.33
1	g9	25	LYS	CA-CB	5.48	1.61	1.53
1	gG	25	LYS	CA-CB	5.48	1.62	1.53
1	gX	21	ASN	C-N	5.48	1.41	1.34
1	hF	85	PRO	CA-CB	5.48	1.61	1.53
1	hL	173	ARG	CA-C	-5.48	1.45	1.52
1	if	124	ILE	CA-C	-5.48	1.48	1.53
1	jD	209	ALA	CA-C	-5.48	1.45	1.52
1	kf	199	LYS	CA-CB	5.48	1.62	1.53
1	ku	21	ASN	C-N	5.48	1.41	1.34
1	li	139	ASN	CA-C	5.48	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lr	38	PRO	N-CD	-5.48	1.40	1.47
1	2a	131	LYS	C-N	5.48	1.41	1.33
1	2O	154	ARG	CA-CB	5.48	1.65	1.54
1	2R	120	HIS	CB-CG	5.48	1.57	1.50
1	3a	161	PHE	CA-CB	5.48	1.62	1.53
1	41	36	VAL	N-CA	-5.48	1.39	1.46
1	4N	84	HIS	CG-ND1	-5.48	1.32	1.38
1	50	70	LYS	CA-CB	5.48	1.62	1.53
1	5d	148	THR	CA-C	-5.48	1.45	1.52
1	61	197	ASP	CA-CB	5.48	1.61	1.53
1	67	202	LEU	CA-CB	5.48	1.61	1.53
1	68	55	MET	CA-CB	5.48	1.62	1.53
1	6c	205	LEU	C-N	5.48	1.41	1.33
1	6k	120	HIS	ND1-CE1	5.48	1.38	1.32
1	6A	133	TRP	NE1-CE2	-5.48	1.31	1.37
1	6E	38	PRO	C-N	5.48	1.40	1.33
1	6G	143	ARG	CD-NE	5.48	1.53	1.46
1	6S	188	THR	N-CA	-5.48	1.39	1.46
1	74	221	VAL	C-O	-5.48	1.18	1.24
1	7r	177	ALA	N-CA	-5.48	1.39	1.45
1	8h	73	ILE	C-N	5.48	1.41	1.33
1	aT	33	SER	CA-C	-5.48	1.46	1.52
1	bM	166	ASP	CA-CB	5.48	1.61	1.53
1	bQ	165	VAL	C-N	5.48	1.41	1.33
1	cr	187	GLU	C-O	-5.48	1.17	1.24
1	cw	41	SER	N-CA	-5.48	1.39	1.46
1	dH	155	GLN	CA-C	5.48	1.60	1.52
1	dK	167	ARG	CD-NE	5.48	1.53	1.46
1	ec	164	TYR	N-CA	5.48	1.52	1.46
1	ep	18	ARG	CA-C	5.48	1.60	1.52
1	et	114	GLN	CA-C	-5.48	1.45	1.52
1	eC	141	ILE	CA-C	-5.48	1.46	1.52
1	fb	175	GLU	C-N	5.48	1.40	1.33
1	fw	228	ALA	CA-C	5.48	1.60	1.52
1	3	108	THR	N-CA	5.48	1.53	1.46
1	gS	180	GLU	C-O	5.48	1.30	1.24
1	h0	39	MET	CA-C	5.48	1.60	1.52
1	hg	15	ILE	CA-CB	-5.48	1.49	1.54
1	i5	145	TYR	CA-C	5.48	1.60	1.52
1	ic	28	GLU	CA-CB	5.48	1.61	1.53
1	1O	159	GLU	CA-CB	5.48	1.62	1.53
1	il	16	SER	CA-C	-5.48	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iM	129	ILE	CA-CB	-5.48	1.47	1.54
1	iM	165	VAL	CA-C	5.48	1.59	1.52
1	jb	114	GLN	CA-CB	5.48	1.61	1.53
1	jq	193	ASN	CA-CB	5.48	1.62	1.53
1	jN	73	ILE	C-N	5.48	1.40	1.33
1	k7	226	HIS	ND1-CE1	5.48	1.38	1.32
1	kf	85	PRO	CA-C	5.48	1.57	1.53
1	kj	28	GLU	CA-C	-5.48	1.45	1.52
1	kw	169	TYR	CA-CB	5.48	1.62	1.53
1	kG	3	VAL	CA-C	5.48	1.58	1.52
1	kH	229	ARG	CA-C	-5.48	1.45	1.52
1	kU	136	LEU	C-N	5.48	1.40	1.33
1	l2	175	GLU	C-N	5.48	1.42	1.33
1	ln	14	ALA	C-N	5.48	1.41	1.33
1	lB	22	ALA	N-CA	-5.48	1.39	1.46
1	lE	104	ILE	CA-C	5.48	1.59	1.52
1	lQ	136	LEU	CA-C	-5.48	1.45	1.52
1	2w	198	CYS	CA-CB	5.48	1.62	1.53
1	2Q	72	THR	CA-C	-5.48	1.45	1.52
1	2Y	167	ARG	CA-C	5.48	1.59	1.52
1	39	5	ASN	CA-C	5.48	1.60	1.52
1	3k	192	GLN	N-CA	-5.48	1.39	1.46
1	3J	223	GLY	N-CA	5.48	1.50	1.43
1	50	85	PRO	CA-C	5.48	1.59	1.52
1	5u	188	THR	C-O	-5.48	1.16	1.24
1	5w	45	GLU	N-CA	-5.48	1.39	1.46
1	5B	10	MET	C-N	5.48	1.40	1.33
1	5X	40	PHE	CA-C	5.48	1.59	1.52
1	60	169	TYR	N-CA	5.48	1.52	1.46
1	68	84	HIS	CE1-NE2	-5.48	1.27	1.32
1	6h	85	PRO	CA-CB	5.48	1.60	1.53
1	6h	184	TRP	CD2-CE2	5.48	1.50	1.41
1	6u	82	ARG	NE-CZ	-5.48	1.27	1.33
1	6B	27	VAL	N-CA	-5.48	1.40	1.46
1	6U	170	LYS	C-N	5.48	1.41	1.33
1	7r	91	ILE	CB-CG1	5.48	1.64	1.53
1	7y	34	PRO	N-CA	-5.48	1.40	1.47
1	7L	169	TYR	N-CA	-5.48	1.39	1.46
1	7W	183	ASN	N-CA	-5.48	1.39	1.46
1	7Z	56	LEU	CA-C	5.48	1.59	1.52
1	8j	114	GLN	CA-CB	5.48	1.61	1.53
1	8j	191	VAL	N-CA	5.48	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8x	221	VAL	CA-C	5.48	1.60	1.52
1	8X	42	ALA	C-N	5.48	1.41	1.33
1	94	131	LYS	CA-CB	5.48	1.61	1.53
1	9k	130	TYR	CA-CB	5.48	1.61	1.53
1	9y	164	TYR	C-N	5.48	1.40	1.33
1	Y	62	HIS	CD2-NE2	5.48	1.43	1.37
1	a6	13	GLN	N-CA	-5.48	1.39	1.46
1	ah	173	ARG	C-N	5.48	1.41	1.34
1	aj	205	LEU	CA-CB	5.48	1.61	1.53
1	12	3	VAL	N-CA	5.48	1.52	1.46
1	12	165	VAL	CA-CB	5.48	1.60	1.54
1	aF	1	PRO	N-CD	5.48	1.55	1.47
1	aZ	45	GLU	N-CA	5.48	1.53	1.46
1	b7	175	GLU	CA-CB	5.48	1.62	1.53
1	bg	166	ASP	C-O	-5.48	1.17	1.24
1	bR	62	HIS	CG-ND1	-5.48	1.32	1.38
1	ce	128	GLU	C-N	5.48	1.40	1.33
1	cr	124	ILE	CA-C	5.48	1.57	1.53
1	cv	164	TYR	CA-C	5.48	1.59	1.52
1	cE	135	ILE	CA-C	-5.48	1.45	1.52
1	1g	128	GLU	C-N	5.48	1.40	1.33
1	cT	134	ILE	CA-CB	-5.48	1.47	1.54
1	cT	190	LEU	C-N	-5.48	1.26	1.33
1	1h	133	TRP	C-O	-5.48	1.17	1.24
1	du	12	HIS	ND1-CE1	5.48	1.38	1.32
1	dD	226	HIS	N-CA	-5.48	1.38	1.45
1	dE	175	GLU	CA-C	5.48	1.59	1.52
1	ea	84	HIS	CE1-NE2	-5.48	1.27	1.32
1	es	133	TRP	CA-C	-5.48	1.45	1.52
1	ew	198	CYS	N-CA	-5.48	1.39	1.46
1	eG	118	MET	C-N	5.48	1.41	1.33
1	eJ	132	ARG	CA-C	-5.48	1.45	1.52
1	1u	198	CYS	CA-C	-5.48	1.45	1.52
1	fg	1	PRO	N-CD	5.48	1.55	1.47
1	1w	138	LEU	CA-C	5.48	1.59	1.52
1	fl	219	GLN	CA-CB	5.48	1.60	1.53
1	g5	223	GLY	CA-C	5.48	1.59	1.51
1	b	29	GLU	CA-CB	5.48	1.61	1.54
1	q	69	LEU	C-O	-5.48	1.17	1.24
1	2	221	VAL	CA-CB	-5.48	1.47	1.54
1	E	15	ILE	CA-C	5.48	1.59	1.52
1	P	201	ILE	N-CA	5.48	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gg	132	ARG	C-N	5.48	1.40	1.33
1	gA	48	THR	CA-C	-5.48	1.45	1.52
1	gO	45	GLU	CA-C	5.48	1.60	1.52
1	gQ	41	SER	CA-CB	5.48	1.61	1.53
1	gS	90	PRO	CA-CB	-5.48	1.46	1.53
1	h2	120	HIS	CE1-NE2	5.48	1.38	1.32
1	hD	170	LYS	CA-C	5.48	1.59	1.52
1	hV	68	MET	C-O	-5.48	1.17	1.24
1	i6	34	PRO	C-O	-5.48	1.17	1.24
1	id	145	TYR	N-CA	-5.48	1.39	1.46
1	iz	121	ASN	CA-CB	5.48	1.60	1.52
1	j8	229	ARG	N-CA	5.48	1.52	1.46
1	jh	128	GLU	C-N	5.48	1.40	1.33
1	jq	170	LYS	CA-CB	5.48	1.61	1.53
1	jN	226	HIS	CD2-NE2	-5.48	1.31	1.37
1	25	123	PRO	CA-CB	5.48	1.60	1.53
1	l1	81	ASP	CA-C	5.48	1.60	1.52
1	lr	177	ALA	C-N	5.48	1.40	1.33
1	ls	35	GLU	CA-C	5.48	1.60	1.52
1	lx	93	PRO	C-N	5.48	1.41	1.33
1	2b	197	ASP	N-CA	-5.48	1.39	1.46
1	2d	96	MET	CA-C	-5.48	1.45	1.53
1	2z	49	PRO	C-N	5.48	1.41	1.33
1	2C	199	LYS	CA-C	5.48	1.59	1.52
1	36	170	LYS	N-CA	-5.48	1.39	1.46
1	3c	172	LEU	CA-CB	5.48	1.61	1.53
1	3g	78	ALA	N-CA	-5.48	1.39	1.46
1	3g	164	TYR	CA-C	5.48	1.59	1.52
1	3E	106	GLY	CA-C	-5.48	1.44	1.51
1	3G	147	PRO	CA-C	-5.48	1.44	1.52
1	3P	19	THR	N-CA	5.48	1.52	1.46
1	3Y	214	MET	C-O	-5.48	1.17	1.24
1	4f	79	GLU	N-CA	-5.48	1.39	1.46
1	4p	180	GLU	CA-CB	5.48	1.61	1.53
1	4U	188	THR	CA-C	5.48	1.57	1.52
1	53	64	ALA	C-N	5.48	1.40	1.33
1	56	20	LEU	C-N	5.48	1.41	1.33
1	5l	172	LEU	CA-CB	5.48	1.61	1.53
1	5D	177	ALA	CA-C	5.48	1.59	1.52
1	5N	100	ARG	CZ-NH1	-5.48	1.25	1.32
1	5U	226	HIS	ND1-CE1	5.48	1.38	1.32
1	68	165	VAL	CA-CB	5.48	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6a	116	GLY	CA-C	-5.48	1.44	1.51
1	6j	146	SER	CA-C	5.48	1.58	1.52
1	6r	78	ALA	CA-CB	5.48	1.61	1.53
1	6y	219	GLN	CA-C	5.48	1.60	1.52
1	6F	7	GLN	C-N	5.48	1.40	1.33
1	72	76	GLU	CA-CB	5.48	1.61	1.53
1	7q	171	THR	C-N	5.48	1.41	1.33
1	7L	26	VAL	CA-CB	-5.48	1.48	1.54
1	7L	59	VAL	CA-C	-5.48	1.46	1.52
1	7R	67	GLN	CA-CB	5.48	1.61	1.53
1	8t	2	ILE	CA-CB	-5.48	1.47	1.54
1	9a	191	VAL	CA-C	5.48	1.60	1.52
1	9d	90	PRO	C-O	-5.48	1.17	1.23
1	9s	109	SER	CA-CB	5.48	1.61	1.53
1	9t	214	MET	CA-CB	5.48	1.61	1.53
1	9y	196	PRO	C-O	-5.48	1.16	1.24
1	9M	71	GLU	C-N	5.48	1.41	1.33
1	Y	68	MET	CA-C	5.48	1.60	1.52
1	9R	39	MET	C-N	5.48	1.40	1.33
1	9W	50	GLN	N-CA	5.48	1.52	1.46
1	9Y	177	ALA	C-N	5.48	1.41	1.33
1	a9	203	LYS	CA-C	5.48	1.60	1.52
1	ac	213	GLU	C-N	5.48	1.41	1.33
1	ae	208	ALA	N-CA	-5.48	1.38	1.46
1	ai	80	TRP	CA-CB	5.48	1.61	1.53
1	an	97	ARG	CD-NE	5.48	1.53	1.46
1	aI	230	VAL	N-CA	-5.48	1.39	1.46
1	15	85	PRO	N-CA	5.48	1.54	1.47
1	b5	5	ASN	CA-CB	5.48	1.63	1.53
1	bg	188	THR	CA-C	-5.48	1.45	1.52
1	bp	165	VAL	N-CA	-5.48	1.40	1.46
1	bE	171	THR	C-N	5.48	1.41	1.34
1	bH	26	VAL	CA-C	5.48	1.59	1.52
1	bN	121	ASN	C-O	5.48	1.30	1.24
1	bY	202	LEU	CA-CB	5.48	1.61	1.53
1	bZ	219	GLN	C-N	5.48	1.39	1.33
1	c0	202	LEU	CA-C	5.48	1.59	1.52
1	c4	188	THR	C-O	-5.48	1.17	1.24
1	1c	120	HIS	ND1-CE1	5.48	1.38	1.32
1	cd	73	ILE	CA-C	5.48	1.59	1.52
1	cw	1	PRO	N-CD	5.48	1.55	1.47
1	cB	120	HIS	CE1-NE2	5.48	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cE	176	GLN	CD-NE2	5.48	1.44	1.33
1	cF	159	GLU	N-CA	-5.48	1.38	1.46
1	1g	73	ILE	N-CA	-5.48	1.39	1.46
1	cL	214	MET	C-N	5.48	1.41	1.33
1	1i	93	PRO	N-CA	-5.48	1.40	1.47
1	d7	74	ASN	CA-CB	5.48	1.61	1.53
1	df	149	SER	CA-CB	5.48	1.62	1.53
1	dx	138	LEU	CA-C	-5.48	1.45	1.52
1	dA	149	SER	C-N	5.48	1.40	1.34
1	dN	25	LYS	C-N	5.48	1.40	1.33
1	e7	211	LEU	CA-C	-5.48	1.45	1.52
1	ex	87	HIS	CA-C	5.48	1.59	1.52
1	eI	28	GLU	CA-C	-5.48	1.46	1.52
1	eM	124	ILE	CA-CB	5.48	1.59	1.53
1	eN	27	VAL	CA-CB	-5.48	1.48	1.54
1	eN	45	GLU	C-N	5.48	1.41	1.33
1	eQ	39	MET	CA-CB	5.48	1.61	1.53
1	eZ	144	MET	C-O	-5.48	1.17	1.24
1	f1	175	GLU	C-N	5.48	1.41	1.33
1	f7	210	THR	CA-C	5.48	1.60	1.53
1	f8	87	HIS	CG-ND1	5.48	1.44	1.38
1	fi	173	ARG	CA-C	5.48	1.60	1.52
1	fX	27	VAL	CA-C	5.48	1.59	1.52
1	g1	180	GLU	CA-C	5.48	1.60	1.52
1	r	146	SER	CA-CB	5.48	1.62	1.53
1	8	167	ARG	CZ-NH2	-5.48	1.26	1.33
1	9	57	ASN	CA-CB	5.48	1.62	1.53
1	gO	84	HIS	CE1-NE2	5.48	1.38	1.32
1	ho	120	HIS	CG-CD2	5.48	1.41	1.35
1	hp	85	PRO	CA-C	-5.48	1.44	1.52
1	i2	171	THR	CA-C	-5.48	1.45	1.52
1	iy	48	THR	CA-CB	5.48	1.62	1.52
1	iD	220	GLY	C-N	5.48	1.40	1.34
1	iF	120	HIS	CB-CG	5.48	1.57	1.50
1	iT	183	ASN	C-N	5.48	1.41	1.33
1	j4	86	VAL	CA-CB	-5.48	1.47	1.54
1	jl	224	PRO	N-CA	5.48	1.53	1.47
1	js	7	GLN	CA-CB	5.48	1.61	1.53
1	1Y	75	GLU	C-N	5.48	1.41	1.34
1	kp	78	ALA	CA-C	5.48	1.59	1.52
1	kx	7	GLN	CA-C	5.48	1.59	1.52
1	kV	87	HIS	N-CA	-5.48	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l7	162	ARG	N-CA	5.48	1.53	1.46
1	le	204	ALA	CA-C	5.48	1.60	1.52
1	2W	61	GLY	N-CA	5.48	1.49	1.44
1	3j	84	HIS	N-CA	5.48	1.54	1.45
1	3W	199	LYS	CA-CB	5.48	1.61	1.53
1	4K	175	GLU	N-CA	5.48	1.53	1.45
1	5T	204	ALA	CA-C	5.48	1.59	1.52
1	73	195	ASN	N-CA	5.48	1.53	1.45
1	9b	5	ASN	CA-C	-5.48	1.46	1.52
1	9h	169	TYR	C-N	-5.48	1.26	1.34
1	9G	121	ASN	CA-C	5.48	1.58	1.52
1	ad	110	THR	CA-C	-5.48	1.46	1.52
1	aq	100	ARG	CD-NE	5.48	1.53	1.46
1	12	107	THR	N-CA	5.48	1.52	1.46
1	aB	147	PRO	C-N	5.48	1.40	1.33
1	aE	186	THR	N-CA	-5.48	1.39	1.46
1	bc	178	SER	CA-C	5.48	1.59	1.52
1	bw	187	GLU	CA-CB	5.48	1.62	1.53
1	bS	123	PRO	C-N	5.48	1.38	1.33
1	ch	183	ASN	CA-CB	5.48	1.61	1.53
1	1f	80	TRP	NE1-CE2	-5.48	1.31	1.37
1	e5	113	GLU	CA-C	-5.48	1.45	1.52
1	eD	206	GLY	C-O	-5.48	1.16	1.24
1	eZ	147	PRO	N-CD	5.48	1.55	1.47
1	f1	95	GLN	CA-C	5.48	1.60	1.52
1	fq	90	PRO	N-CA	-5.48	1.41	1.47
1	d	230	VAL	C-N	5.48	1.41	1.33
1	gk	39	MET	C-N	5.48	1.41	1.33
1	gk	135	ILE	CA-C	5.48	1.59	1.52
1	gt	199	LYS	N-CA	-5.48	1.39	1.46
1	gy	96	MET	CA-CB	5.48	1.63	1.53
1	gO	168	PHE	CA-CB	5.48	1.61	1.53
1	gT	120	HIS	CG-ND1	-5.48	1.32	1.38
1	hm	36	VAL	CA-C	-5.48	1.44	1.52
1	hq	159	GLU	CA-CB	5.48	1.63	1.53
1	hE	188	THR	CA-CB	5.48	1.61	1.53
1	i0	38	PRO	N-CD	-5.48	1.40	1.47
1	i1	37	ILE	CA-C	5.48	1.58	1.52
1	ij	82	ARG	CD-NE	5.48	1.53	1.46
1	iO	115	ILE	CA-CB	5.48	1.61	1.54
1	iR	214	MET	CA-CB	5.48	1.61	1.53
1	jg	157	PRO	N-CA	-5.48	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jg	199	LYS	C-N	5.48	1.40	1.33
1	jG	198	CYS	CA-CB	5.48	1.61	1.53
1	k4	100	ARG	C-N	5.48	1.40	1.33
1	k5	146	SER	N-CA	-5.48	1.40	1.46
1	k7	183	ASN	CA-CB	5.48	1.61	1.53
1	kc	39	MET	CA-CB	5.48	1.61	1.53
1	kd	184	TRP	CA-C	5.48	1.59	1.52
1	ki	229	ARG	NE-CZ	5.48	1.39	1.33
1	kv	12	HIS	CB-CG	5.48	1.57	1.50
1	kz	111	LEU	C-N	5.48	1.41	1.33
1	ld	170	LYS	CA-C	5.48	1.59	1.52
1	lh	148	THR	CA-C	5.48	1.59	1.52
1	lm	161	PHE	CA-CB	5.48	1.61	1.53
1	2s	40	PHE	CA-CB	5.48	1.61	1.53
1	2H	33	SER	CA-CB	5.48	1.60	1.53
1	3i	71	GLU	N-CA	-5.48	1.39	1.46
1	3o	151	LEU	CA-C	-5.48	1.45	1.52
1	3s	132	ARG	CA-CB	5.48	1.61	1.53
1	3J	128	GLU	C-N	5.48	1.40	1.33
1	3L	42	ALA	C-O	5.48	1.30	1.24
1	4t	216	THR	CA-C	5.48	1.59	1.52
1	4F	188	THR	CA-C	-5.48	1.45	1.52
1	5s	153	ILE	CA-CB	-5.48	1.47	1.54
1	5w	109	SER	C-N	5.48	1.41	1.33
1	5H	209	ALA	CA-CB	5.48	1.62	1.53
1	6y	28	GLU	CA-C	5.48	1.60	1.52
1	6B	14	ALA	C-N	5.48	1.40	1.33
1	6C	69	LEU	C-N	5.48	1.41	1.34
1	7D	184	TRP	NE1-CE2	5.48	1.43	1.37
1	7Z	98	GLU	CA-C	5.48	1.59	1.52
1	8i	150	ILE	CA-CB	5.48	1.61	1.54
1	8F	100	ARG	CA-C	5.48	1.60	1.53
1	8L	48	THR	CA-C	5.48	1.59	1.52
1	9w	160	PRO	C-O	-5.48	1.18	1.23
1	9F	141	ILE	CA-C	5.48	1.59	1.52
1	Y	194	ALA	C-N	5.48	1.42	1.33
1	9T	90	PRO	C-O	-5.48	1.17	1.24
1	ar	229	ARG	CD-NE	5.48	1.53	1.46
1	az	155	GLN	CA-C	5.48	1.60	1.53
1	aC	145	TYR	N-CA	-5.48	1.39	1.46
1	b1	165	VAL	N-CA	-5.48	1.39	1.46
1	b4	36	VAL	CA-CB	-5.48	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b5	100	ARG	N-CA	-5.48	1.38	1.45
1	b9	12	HIS	CG-ND1	-5.48	1.32	1.38
1	bk	174	ALA	C-N	5.48	1.41	1.33
1	bn	81	ASP	CA-CB	5.48	1.62	1.53
1	1b	80	TRP	N-CA	-5.48	1.39	1.46
1	c5	226	HIS	ND1-CE1	5.48	1.38	1.32
1	cm	220	GLY	CA-C	-5.48	1.44	1.51
1	cn	142	VAL	CA-CB	5.48	1.61	1.54
1	cK	125	PRO	C-N	5.48	1.40	1.34
1	dx	185	MET	CA-C	5.48	1.59	1.52
1	dP	154	ARG	CD-NE	5.48	1.53	1.46
1	dQ	92	GLU	CA-CB	5.48	1.62	1.53
1	1o	99	PRO	C-N	5.48	1.40	1.33
1	eg	54	THR	C-N	5.48	1.40	1.33
1	eu	29	GLU	CA-C	-5.48	1.49	1.52
1	eK	149	SER	CA-C	5.48	1.58	1.52
1	1t	99	PRO	N-CA	-5.48	1.40	1.47
1	fL	45	GLU	CA-CB	5.48	1.62	1.53
1	gg	103	ASP	C-O	-5.48	1.17	1.24
1	gy	23	TRP	CA-C	5.48	1.59	1.52
1	hd	202	LEU	N-CA	5.48	1.52	1.46
1	hm	53	ASN	C-O	-5.48	1.17	1.24
1	hT	36	VAL	N-CA	-5.48	1.40	1.46
1	i4	12	HIS	CB-CG	5.48	1.57	1.50
1	iL	170	LYS	C-N	5.48	1.41	1.33
1	j2	4	GLN	CA-CB	5.48	1.62	1.53
1	jd	167	ARG	CA-CB	5.48	1.61	1.53
1	1V	216	THR	N-CA	-5.48	1.38	1.46
1	jn	97	ARG	CA-C	5.48	1.59	1.52
1	jr	167	ARG	CA-C	-5.48	1.46	1.52
1	k3	77	ALA	CA-C	5.48	1.60	1.52
1	ks	55	MET	CA-C	5.48	1.59	1.52
1	27	56	LEU	CA-CB	5.48	1.62	1.53
1	lt	136	LEU	CA-C	5.48	1.59	1.52
1	lH	44	SER	CA-CB	5.48	1.61	1.53
1	2f	186	THR	C-O	-5.48	1.17	1.24
1	2Y	167	ARG	CD-NE	5.48	1.53	1.46
1	3h	57	ASN	CA-CB	5.48	1.62	1.53
1	3R	78	ALA	N-CA	-5.48	1.39	1.46
1	3V	12	HIS	C-N	5.48	1.41	1.33
1	4J	21	ASN	CA-C	5.48	1.60	1.52
1	4K	184	TRP	NE1-CE2	-5.48	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5v	94	GLY	CA-C	-5.48	1.44	1.51
1	6l	61	GLY	C-O	5.48	1.29	1.23
1	7H	182	LYS	N-CA	-5.48	1.39	1.46
1	7T	82	ARG	CD-NE	5.48	1.53	1.46
1	8Y	88	ALA	CA-CB	5.48	1.62	1.53
1	9v	48	THR	CA-C	5.48	1.60	1.53
1	Z	67	GLN	CA-CB	5.48	1.62	1.53
1	ar	24	VAL	C-N	5.48	1.40	1.33
1	aJ	12	HIS	ND1-CE1	5.48	1.38	1.32
1	b0	86	VAL	CA-CB	-5.48	1.49	1.54
1	bi	11	VAL	N-CA	5.48	1.52	1.46
1	bm	143	ARG	C-N	5.48	1.41	1.33
1	bH	29	GLU	N-CA	-5.48	1.39	1.46
1	cd	192	GLN	CA-CB	5.48	1.61	1.53
1	dj	118	MET	CG-SD	5.48	1.94	1.80
1	dD	139	ASN	C-O	-5.48	1.17	1.24
1	dM	223	GLY	C-N	5.48	1.40	1.34
1	e2	120	HIS	CD2-NE2	5.48	1.43	1.37
1	ek	108	THR	N-CA	5.48	1.54	1.46
1	ek	229	ARG	C-N	5.48	1.40	1.33
1	eO	155	GLN	CA-CB	5.48	1.61	1.53
1	fG	162	ARG	CA-C	-5.48	1.45	1.52
1	M	198	CYS	CA-C	5.48	1.59	1.52
1	8	166	ASP	CA-C	5.48	1.59	1.52
1	gb	157	PRO	N-CD	-5.47	1.40	1.47
1	gA	213	GLU	N-CA	5.47	1.53	1.46
1	gV	55	MET	C-O	-5.47	1.17	1.24
1	h4	38	PRO	N-CD	-5.47	1.40	1.47
1	h5	172	LEU	C-N	5.47	1.41	1.33
1	hf	29	GLU	CA-CB	5.47	1.61	1.53
1	i9	104	ILE	CA-CB	-5.47	1.47	1.54
1	im	108	THR	CA-CB	5.47	1.62	1.53
1	iG	45	GLU	CA-CB	5.47	1.60	1.53
1	iP	2	ILE	C-N	-5.47	1.28	1.33
1	iZ	29	GLU	CA-C	5.47	1.60	1.52
1	j4	214	MET	C-O	-5.47	1.17	1.24
1	j9	84	HIS	CD2-NE2	5.47	1.43	1.37
1	jo	132	ARG	CD-NE	5.47	1.53	1.46
1	jp	146	SER	N-CA	5.47	1.53	1.46
1	jr	50	GLN	CA-CB	5.47	1.61	1.53
1	jy	4	GLN	CA-CB	5.47	1.62	1.53
1	jM	193	ASN	CA-CB	5.47	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jZ	115	ILE	CA-C	-5.47	1.45	1.52
1	kd	44	SER	C-N	5.47	1.41	1.33
1	l9	70	LYS	CA-CB	5.47	1.61	1.53
1	lb	87	HIS	CB-CG	5.47	1.57	1.50
1	lA	54	THR	N-CA	5.47	1.52	1.46
1	lK	36	VAL	C-N	5.47	1.39	1.33
1	lL	215	MET	N-CA	5.47	1.53	1.46
1	2x	39	MET	C-N	5.47	1.41	1.33
1	2D	87	HIS	CA-CB	5.47	1.61	1.53
1	3e	20	LEU	CB-CG	5.47	1.64	1.53
1	3t	1	PRO	N-CD	5.47	1.55	1.47
1	3F	77	ALA	C-N	5.47	1.41	1.33
1	3R	12	HIS	ND1-CE1	5.47	1.38	1.32
1	40	94	GLY	C-N	5.47	1.41	1.33
1	42	120	HIS	ND1-CE1	5.47	1.38	1.32
1	4m	214	MET	N-CA	-5.47	1.39	1.46
1	4s	117	TRP	CA-CB	5.47	1.61	1.53
1	4U	169	TYR	N-CA	-5.47	1.39	1.46
1	5h	177	ALA	CA-C	5.47	1.59	1.52
1	5U	37	ILE	CA-CB	5.47	1.56	1.54
1	6r	45	GLU	C-N	5.47	1.40	1.33
1	6u	18	ARG	C-N	5.47	1.40	1.33
1	6u	66	MET	C-N	5.47	1.40	1.33
1	6T	82	ARG	CD-NE	5.47	1.53	1.46
1	6Z	53	ASN	CA-C	5.47	1.59	1.52
1	70	139	ASN	N-CA	-5.47	1.39	1.46
1	77	43	LEU	CA-CB	5.47	1.61	1.53
1	7A	142	VAL	CA-C	5.47	1.59	1.52
1	84	45	GLU	CA-C	-5.47	1.45	1.52
1	8k	205	LEU	CA-C	5.47	1.59	1.52
1	8I	169	TYR	N-CA	-5.47	1.39	1.46
1	8V	52	LEU	CA-C	5.47	1.59	1.52
1	98	143	ARG	CA-C	5.47	1.59	1.52
1	9s	192	GLN	N-CA	-5.47	1.39	1.46
1	9w	36	VAL	N-CA	-5.47	1.39	1.46
1	at	77	ALA	N-CA	-5.47	1.39	1.46
1	aB	10	MET	CA-C	5.47	1.60	1.53
1	ba	206	GLY	CA-C	5.47	1.59	1.51
1	bO	55	MET	C-O	-5.47	1.17	1.24
1	bP	152	ASP	C-N	5.47	1.40	1.33
1	bW	115	ILE	N-CA	5.47	1.53	1.46
1	bZ	193	ASN	CA-C	5.47	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cf	211	LEU	C-N	5.47	1.40	1.33
1	cB	18	ARG	N-CA	5.47	1.52	1.46
1	cX	226	HIS	CG-CD2	5.47	1.41	1.35
1	dg	207	PRO	CA-C	5.47	1.60	1.52
1	dB	31	ALA	N-CA	5.47	1.53	1.46
1	dH	25	LYS	C-N	5.47	1.40	1.33
1	eu	84	HIS	CA-CB	5.47	1.61	1.52
1	ez	118	MET	CA-C	5.47	1.60	1.52
1	eD	180	GLU	C-N	5.47	1.41	1.33
1	1v	229	ARG	N-CA	-5.47	1.38	1.46
1	fk	184	TRP	C-N	5.47	1.41	1.33
1	k	117	TRP	N-CA	-5.47	1.39	1.46
1	l	155	GLN	C-N	5.47	1.41	1.33
1	m	182	LYS	C-N	5.47	1.41	1.33
1	n	28	GLU	CA-CB	5.47	1.61	1.53
1	y	118	MET	C-N	5.47	1.41	1.33
1	g9	81	ASP	CA-C	5.47	1.59	1.52
1	g9	87	HIS	N-CA	-5.47	1.41	1.46
1	gD	215	MET	CA-CB	5.47	1.62	1.53
1	gG	59	VAL	N-CA	-5.47	1.40	1.46
1	gI	4	GLN	C-N	5.47	1.41	1.33
1	gK	52	LEU	C-O	-5.47	1.17	1.24
1	gS	38	PRO	C-N	5.47	1.40	1.33
1	hm	26	VAL	C-N	5.47	1.40	1.33
1	hr	7	GLN	N-CA	5.47	1.53	1.46
1	hJ	124	ILE	CA-C	5.47	1.57	1.53
1	hR	135	ILE	CA-C	-5.47	1.45	1.52
1	hU	138	LEU	N-CA	-5.47	1.39	1.46
1	1N	226	HIS	N-CA	5.47	1.53	1.46
1	ik	21	ASN	CA-C	5.47	1.60	1.52
1	iA	140	LYS	CA-C	5.47	1.59	1.52
1	iX	82	ARG	CZ-NH1	-5.47	1.25	1.32
1	1T	137	GLY	N-CA	5.47	1.52	1.45
1	jg	138	LEU	CA-C	5.47	1.59	1.52
1	jB	89	GLY	N-CA	5.47	1.52	1.44
1	k4	190	LEU	N-CA	5.47	1.53	1.46
1	kd	36	VAL	C-N	5.47	1.39	1.33
1	21	86	VAL	CA-CB	5.47	1.59	1.53
1	22	168	PHE	C-O	5.47	1.30	1.24
1	ky	179	GLN	C-N	5.47	1.41	1.33
1	kD	24	VAL	C-O	-5.47	1.17	1.24
1	kG	156	GLY	N-CA	-5.47	1.37	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l3	83	LEU	CA-CB	5.47	1.61	1.53
1	27	51	ASP	C-N	5.47	1.40	1.33
1	lp	100	ARG	CA-C	5.47	1.58	1.53
1	lM	226	HIS	ND1-CE1	5.47	1.38	1.32
1	2g	21	ASN	CA-C	5.47	1.59	1.52
1	2s	169	TYR	CA-CB	5.47	1.61	1.53
1	2s	220	GLY	C-N	5.47	1.40	1.33
1	2S	83	LEU	CA-C	5.47	1.60	1.52
1	3g	34	PRO	CA-C	-5.47	1.44	1.52
1	3H	10	MET	N-CA	-5.47	1.39	1.46
1	4k	63	GLN	CA-C	-5.47	1.45	1.52
1	4v	120	HIS	CA-CB	5.47	1.62	1.53
1	4A	115	ILE	CB-CG1	5.47	1.64	1.53
1	4R	163	ASP	CA-CB	5.47	1.61	1.53
1	4Z	133	TRP	NE1-CE2	5.47	1.43	1.37
1	51	89	GLY	N-CA	5.47	1.52	1.44
1	5b	90	PRO	CA-CB	5.47	1.61	1.53
1	5h	226	HIS	ND1-CE1	5.47	1.38	1.32
1	5k	144	MET	CA-CB	5.47	1.61	1.53
1	5q	184	TRP	C-N	-5.47	1.26	1.34
1	5R	223	GLY	N-CA	5.47	1.52	1.44
1	5V	149	SER	C-N	5.47	1.40	1.33
1	5Y	109	SER	C-N	5.47	1.40	1.33
1	69	173	ARG	CA-CB	5.47	1.61	1.53
1	6c	62	HIS	CA-CB	5.47	1.61	1.53
1	6V	158	LYS	C-N	5.47	1.42	1.33
1	73	184	TRP	NE1-CE2	-5.47	1.31	1.37
1	73	224	PRO	C-O	-5.47	1.17	1.24
1	76	193	ASN	CA-CB	5.47	1.62	1.53
1	7r	143	ARG	C-N	5.47	1.41	1.34
1	7W	87	HIS	CB-CG	5.47	1.57	1.50
1	8y	125	PRO	N-CA	-5.47	1.40	1.47
1	8H	63	GLN	C-N	5.47	1.40	1.33
1	90	186	THR	C-N	5.47	1.40	1.33
1	9f	211	LEU	N-CA	5.47	1.53	1.46
1	9x	80	TRP	CA-C	5.47	1.59	1.52
1	9Q	120	HIS	N-CA	5.47	1.52	1.45
1	a4	187	GLU	CA-CB	5.47	1.61	1.53
1	al	43	LEU	C-N	-5.47	1.25	1.33
1	aY	162	ARG	CD-NE	5.47	1.53	1.46
1	bb	5	ASN	CA-CB	5.47	1.62	1.53
1	bt	99	PRO	N-CA	5.47	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bC	175	GLU	CA-C	-5.47	1.45	1.52
1	cf	90	PRO	N-CA	-5.47	1.40	1.47
1	ci	175	GLU	CA-CB	5.47	1.60	1.53
1	cU	12	HIS	CG-ND1	-5.47	1.32	1.38
1	d1	120	HIS	ND1-CE1	5.47	1.38	1.32
1	dz	182	LYS	CA-C	5.47	1.60	1.52
1	dR	184	TRP	CD2-CE3	-5.47	1.31	1.40
1	dV	148	THR	N-CA	5.47	1.52	1.46
1	en	87	HIS	CG-CD2	5.47	1.41	1.35
1	en	150	ILE	CB-CG1	5.47	1.64	1.53
1	eH	27	VAL	CA-CB	-5.47	1.47	1.54
1	eH	134	ILE	N-CA	5.47	1.52	1.46
1	f2	158	LYS	CA-CB	5.47	1.62	1.54
1	1w	68	MET	CA-CB	5.47	1.61	1.53
1	fA	152	ASP	CA-CB	5.47	1.63	1.53
1	fE	45	GLU	CA-CB	5.47	1.62	1.53
1	fH	183	ASN	CA-C	-5.47	1.45	1.52
1	fI	162	ARG	CD-NE	5.47	1.53	1.46
1	fS	120	HIS	CE1-NE2	-5.47	1.27	1.32
1	fV	162	ARG	CD-NE	5.47	1.53	1.46
1	fW	37	ILE	CA-CB	5.47	1.57	1.54
1	1A	113	GLU	C-N	-5.47	1.26	1.33
1	g0	103	ASP	C-N	5.47	1.40	1.33
1	m	17	PRO	CA-CB	5.47	1.61	1.53
1	5	151	LEU	CA-CB	5.47	1.62	1.53
1	1D	146	SER	CA-CB	5.47	1.63	1.53
1	gD	159	GLU	N-CA	-5.47	1.38	1.46
1	hq	82	ARG	CA-C	5.47	1.59	1.52
1	hv	159	GLU	CA-CB	5.47	1.62	1.52
1	ij	208	ALA	C-N	5.47	1.40	1.33
1	1Q	70	LYS	CA-CB	5.47	1.62	1.53
1	jp	226	HIS	CA-C	5.47	1.59	1.52
1	jt	53	ASN	C-N	5.47	1.41	1.33
1	jR	204	ALA	CA-C	5.47	1.60	1.52
1	l1	143	ARG	CZ-NH2	-5.47	1.26	1.33
1	lk	28	GLU	CA-CB	5.47	1.61	1.53
1	lK	169	TYR	CA-CB	5.47	1.61	1.53
1	3z	42	ALA	CA-C	5.47	1.60	1.52
1	3D	181	VAL	C-N	5.47	1.41	1.34
1	3R	183	ASN	N-CA	-5.47	1.39	1.46
1	4u	62	HIS	CE1-NE2	5.47	1.38	1.32
1	4F	47	ALA	CA-CB	5.47	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4J	49	PRO	N-CA	5.47	1.54	1.47
1	5T	156	GLY	C-N	-5.47	1.27	1.34
1	6c	45	GLU	N-CA	5.47	1.53	1.46
1	6f	147	PRO	N-CD	-5.47	1.40	1.47
1	71	67	GLN	C-N	5.47	1.41	1.33
1	7v	19	THR	C-N	5.47	1.41	1.33
1	7K	1	PRO	N-CA	5.47	1.55	1.47
1	7X	104	ILE	CB-CG1	5.47	1.64	1.53
1	93	98	GLU	CA-C	5.47	1.59	1.52
1	9r	20	LEU	CA-CB	5.47	1.61	1.53
1	9B	226	HIS	CG-CD2	-5.47	1.29	1.35
1	a0	207	PRO	CA-C	5.47	1.60	1.52
1	ai	36	VAL	N-CA	5.47	1.53	1.46
1	aK	105	ALA	CA-C	-5.47	1.45	1.52
1	15	193	ASN	CG-ND2	5.47	1.44	1.33
1	bi	43	LEU	C-N	5.47	1.40	1.33
1	bt	145	TYR	N-CA	5.47	1.52	1.46
1	bZ	35	GLU	C-O	5.47	1.31	1.24
1	cb	228	ALA	C-N	5.47	1.40	1.33
1	d7	68	MET	CA-CB	5.47	1.62	1.53
1	dX	109	SER	CA-C	5.47	1.59	1.52
1	eo	106	GLY	C-N	5.47	1.41	1.33
1	es	176	GLN	CA-C	5.47	1.60	1.52
1	eD	181	VAL	N-CA	-5.47	1.39	1.46
1	eG	131	LYS	CA-CB	5.47	1.62	1.53
1	1w	136	LEU	C-N	5.47	1.40	1.33
1	fn	36	VAL	N-CA	5.47	1.52	1.46
1	1A	12	HIS	C-O	-5.47	1.17	1.24
1	gg	162	ARG	N-CA	5.47	1.52	1.46
1	gi	132	ARG	CD-NE	5.47	1.53	1.46
1	gr	188	THR	CA-C	-5.47	1.46	1.52
1	gG	167	ARG	C-N	5.47	1.40	1.33
1	gK	143	ARG	C-N	5.47	1.41	1.33
1	gO	223	GLY	C-N	5.47	1.39	1.34
1	gU	7	GLN	C-N	5.47	1.40	1.33
1	hW	82	ARG	CD-NE	5.47	1.53	1.46
1	i8	108	THR	CA-C	-5.47	1.45	1.52
1	id	132	ARG	CD-NE	5.47	1.53	1.46
1	1O	23	TRP	NE1-CE2	5.47	1.43	1.37
1	ij	55	MET	CA-C	5.47	1.60	1.52
1	iI	165	VAL	CA-C	5.47	1.59	1.52
1	iP	135	ILE	CA-CB	5.47	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j4	154	ARG	CD-NE	5.47	1.53	1.46
1	j9	19	THR	CA-C	5.47	1.59	1.52
1	jm	213	GLU	C-N	5.47	1.41	1.33
1	jr	190	LEU	C-N	5.47	1.39	1.34
1	jx	13	GLN	CA-C	-5.47	1.46	1.52
1	jR	154	ARG	C-N	5.47	1.41	1.33
1	k2	74	ASN	CA-CB	5.47	1.61	1.53
1	k9	62	HIS	C-N	5.47	1.41	1.33
1	kc	169	TYR	CA-CB	5.47	1.61	1.53
1	kt	51	ASP	CA-C	5.47	1.59	1.52
1	kA	143	ARG	CZ-NH1	-5.47	1.25	1.32
1	kC	211	LEU	N-CA	5.47	1.52	1.46
1	kD	2	ILE	C-O	-5.47	1.18	1.24
1	kK	164	TYR	CA-CB	5.47	1.61	1.53
1	kU	227	LYS	CA-C	-5.47	1.46	1.52
1	kV	189	LEU	C-O	-5.47	1.17	1.24
1	kZ	148	THR	N-CA	5.47	1.52	1.45
1	l1	133	TRP	CZ2-CH2	5.47	1.47	1.37
1	li	53	ASN	CA-C	5.47	1.60	1.52
1	lF	116	GLY	C-N	5.47	1.41	1.33
1	2a	154	ARG	N-CA	-5.47	1.38	1.45
1	lN	185	MET	CA-CB	5.47	1.61	1.53
1	lO	85	PRO	C-N	5.47	1.40	1.34
1	lP	79	GLU	CA-C	-5.47	1.45	1.52
1	2n	185	MET	CG-SD	5.47	1.94	1.80
1	2q	184	TRP	CG-CD2	5.47	1.53	1.43
1	2u	92	GLU	CA-CB	5.47	1.62	1.52
1	2U	69	LEU	CA-C	5.47	1.59	1.52
1	2X	180	GLU	CA-CB	5.47	1.62	1.53
1	3C	138	LEU	N-CA	-5.47	1.39	1.46
1	3D	97	ARG	CZ-NH1	-5.47	1.25	1.32
1	3G	26	VAL	C-N	5.47	1.40	1.33
1	3M	79	GLU	N-CA	5.47	1.52	1.46
1	43	161	PHE	C-N	5.47	1.41	1.33
1	4b	218	CYS	CA-C	-5.47	1.45	1.52
1	4m	20	LEU	N-CA	-5.47	1.39	1.46
1	4D	117	TRP	CG-CD2	-5.47	1.33	1.43
1	4R	123	PRO	N-CD	5.47	1.55	1.47
1	59	162	ARG	CA-C	5.47	1.60	1.52
1	5b	138	LEU	N-CA	-5.47	1.39	1.46
1	5c	167	ARG	N-CA	-5.47	1.39	1.46
1	5d	136	LEU	CA-CB	5.47	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5w	128	GLU	C-N	5.47	1.40	1.33
1	5x	61	GLY	N-CA	5.47	1.52	1.45
1	5M	111	LEU	C-N	-5.47	1.26	1.33
1	6l	148	THR	CA-CB	-5.47	1.45	1.53
1	6o	189	LEU	C-N	5.47	1.41	1.33
1	6E	15	ILE	CA-CB	-5.47	1.47	1.54
1	6E	198	CYS	C-N	5.47	1.41	1.33
1	6W	225	GLY	CA-C	-5.47	1.45	1.52
1	7a	82	ARG	N-CA	5.47	1.52	1.46
1	7i	187	GLU	CA-CB	5.47	1.61	1.53
1	7m	7	GLN	CA-C	5.47	1.60	1.52
1	7n	198	CYS	CA-CB	5.47	1.63	1.53
1	7O	129	ILE	N-CA	5.47	1.52	1.46
1	7P	89	GLY	N-CA	5.47	1.52	1.44
1	8F	143	ARG	C-N	5.47	1.41	1.33
1	8I	87	HIS	CD2-NE2	5.47	1.43	1.37
1	9q	1	PRO	C-N	5.47	1.40	1.33
1	9A	19	THR	C-N	5.47	1.40	1.33
1	9G	182	LYS	CA-CB	5.47	1.61	1.53
1	9J	194	ALA	CA-C	5.47	1.60	1.53
1	9R	9	GLN	CA-C	5.47	1.60	1.53
1	9R	227	LYS	C-N	5.47	1.41	1.33
1	ah	134	ILE	CA-CB	-5.47	1.47	1.54
1	an	64	ALA	CA-CB	5.47	1.62	1.53
1	aF	107	THR	C-O	-5.47	1.17	1.24
1	br	15	ILE	C-O	5.47	1.30	1.24
1	c5	27	VAL	CA-C	5.47	1.59	1.52
1	1d	34	PRO	CA-C	5.47	1.59	1.52
1	1e	68	MET	C-N	5.47	1.40	1.33
1	cx	202	LEU	CA-C	5.47	1.60	1.52
1	dg	200	THR	CA-CB	-5.47	1.44	1.53
1	1n	142	VAL	C-O	5.47	1.30	1.24
1	ev	1	PRO	N-CA	5.47	1.55	1.47
1	eV	89	GLY	C-N	5.47	1.40	1.33
1	eW	140	LYS	C-N	5.47	1.40	1.33
1	fn	2	ILE	N-CA	5.47	1.52	1.46
1	fo	84	HIS	CE1-NE2	5.47	1.38	1.32
1	fL	165	VAL	C-N	5.47	1.40	1.33
1	fW	215	MET	N-CA	-5.47	1.39	1.46
1	e	139	ASN	CA-CB	5.47	1.61	1.53
1	w	74	ASN	CA-C	5.47	1.59	1.52
1	D	198	CYS	CA-CB	5.47	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	93	PRO	CA-C	5.47	1.59	1.52
1	T	206	GLY	N-CA	5.47	1.50	1.43
1	g9	69	LEU	N-CA	-5.47	1.39	1.46
1	gf	66	MET	C-N	-5.47	1.26	1.33
1	he	74	ASN	CA-C	-5.47	1.45	1.52
1	hv	208	ALA	CA-C	-5.47	1.45	1.52
1	hD	50	GLN	N-CA	-5.47	1.39	1.46
1	i6	11	VAL	CA-C	5.47	1.58	1.52
1	ji	226	HIS	CB-CG	-5.47	1.42	1.50
1	jM	143	ARG	CA-C	-5.47	1.45	1.52
1	23	211	LEU	CA-CB	5.47	1.61	1.53
1	lp	174	ALA	N-CA	-5.47	1.38	1.46
1	lG	224	PRO	N-CA	-5.47	1.40	1.47
1	2j	226	HIS	N-CA	-5.47	1.39	1.46
1	2G	56	LEU	N-CA	5.47	1.52	1.46
1	3z	4	GLN	C-N	5.47	1.42	1.33
1	3H	28	GLU	CA-C	5.47	1.59	1.52
1	3H	195	ASN	CA-C	-5.47	1.45	1.52
1	3V	224	PRO	C-N	5.47	1.41	1.33
1	4a	211	LEU	N-CA	5.47	1.52	1.46
1	52	226	HIS	CE1-NE2	-5.47	1.27	1.32
1	5v	112	GLN	CA-C	-5.47	1.45	1.52
1	5B	120	HIS	N-CA	-5.47	1.39	1.46
1	64	23	TRP	CA-CB	5.47	1.61	1.53
1	6n	24	VAL	CA-C	5.47	1.59	1.52
1	6w	174	ALA	CA-CB	5.47	1.62	1.53
1	7d	206	GLY	C-N	5.47	1.40	1.34
1	7V	88	ALA	CA-C	5.47	1.59	1.52
1	8q	162	ARG	CA-C	5.47	1.59	1.52
1	93	184	TRP	CA-CB	5.47	1.61	1.53
1	9b	83	LEU	N-CA	5.47	1.52	1.46
1	9h	175	GLU	CA-C	5.47	1.60	1.53
1	9O	80	TRP	NE1-CE2	-5.47	1.31	1.37
1	Z	7	GLN	CA-C	-5.47	1.45	1.52
1	ap	17	PRO	C-O	5.47	1.30	1.24
1	bk	131	LYS	C-N	5.47	1.40	1.33
1	bv	11	VAL	N-CA	5.47	1.52	1.46
1	ch	182	LYS	CA-C	5.47	1.60	1.52
1	cv	210	THR	CA-C	-5.47	1.45	1.53
1	dK	28	GLU	CA-C	5.47	1.59	1.52
1	eu	80	TRP	CG-CD2	5.47	1.53	1.43
1	1r	34	PRO	N-CA	5.47	1.53	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eD	141	ILE	C-N	5.47	1.40	1.33
1	fX	45	GLU	C-N	5.47	1.39	1.33
1	i	81	ASP	N-CA	-5.47	1.39	1.46
1	j	62	HIS	CB-CG	5.47	1.57	1.50
1	w	176	GLN	CD-NE2	5.47	1.44	1.33
1	G	45	GLU	C-N	5.47	1.40	1.33
1	gl	198	CYS	CA-CB	5.47	1.62	1.53
1	gu	121	ASN	N-CA	-5.47	1.41	1.46
1	gx	77	ALA	N-CA	5.47	1.53	1.46
1	gW	56	LEU	C-O	-5.47	1.17	1.24
1	gX	34	PRO	N-CD	-5.47	1.40	1.47
1	h4	173	ARG	CD-NE	5.47	1.53	1.46
1	hi	36	VAL	CA-CB	5.47	1.61	1.54
1	hC	33	SER	CA-CB	5.47	1.62	1.54
1	i8	48	THR	C-O	-5.47	1.16	1.23
1	in	207	PRO	C-N	5.47	1.41	1.33
1	1P	84	HIS	C-O	-5.47	1.19	1.24
1	iQ	221	VAL	N-CA	5.47	1.52	1.46
1	1S	134	ILE	N-CA	5.47	1.52	1.46
1	iY	74	ASN	CA-C	5.47	1.59	1.52
1	jl	18	ARG	CD-NE	5.47	1.53	1.46
1	jl	154	ARG	C-O	-5.47	1.17	1.23
1	jp	74	ASN	CA-C	-5.47	1.45	1.52
1	jp	217	ALA	CA-C	5.47	1.60	1.52
1	ju	72	THR	CA-C	5.47	1.59	1.52
1	jM	170	LYS	CA-C	-5.47	1.45	1.52
1	jT	29	GLU	N-CA	-5.47	1.39	1.46
1	jW	56	LEU	CA-C	5.47	1.59	1.52
1	k4	95	GLN	C-N	5.47	1.41	1.33
1	kb	109	SER	CA-C	-5.47	1.46	1.52
1	kg	76	GLU	CA-CB	5.47	1.61	1.53
1	kH	92	GLU	CA-CB	5.47	1.61	1.53
1	kM	79	GLU	CA-CB	5.47	1.61	1.53
1	kQ	134	ILE	CA-C	-5.47	1.45	1.52
1	l3	39	MET	N-CA	-5.47	1.39	1.46
1	ld	173	ARG	CA-C	5.47	1.59	1.52
1	lu	148	THR	C-O	5.47	1.30	1.23
1	lK	58	THR	CB-OG1	-5.47	1.35	1.43
1	2a	229	ARG	C-N	5.47	1.41	1.33
1	lO	18	ARG	N-CA	-5.47	1.39	1.46
1	2u	57	ASN	CA-CB	5.47	1.61	1.53
1	2D	160	PRO	CA-CB	-5.47	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2Q	11	VAL	N-CA	-5.47	1.39	1.46
1	2U	91	ILE	N-CA	-5.47	1.40	1.46
1	32	129	ILE	C-N	5.47	1.41	1.33
1	3j	132	ARG	CA-CB	5.47	1.61	1.53
1	3O	78	ALA	N-CA	-5.47	1.39	1.46
1	43	42	ALA	N-CA	-5.47	1.39	1.46
1	46	1	PRO	N-CD	5.47	1.55	1.47
1	4g	182	LYS	N-CA	5.47	1.53	1.46
1	4h	90	PRO	C-N	5.47	1.41	1.33
1	4p	43	LEU	N-CA	5.47	1.53	1.46
1	4q	160	PRO	CA-CB	5.47	1.61	1.53
1	4A	16	SER	CA-C	-5.47	1.45	1.52
1	4N	76	GLU	CA-CB	-5.47	1.44	1.53
1	4O	55	MET	C-N	-5.47	1.26	1.33
1	4X	109	SER	N-CA	-5.47	1.39	1.46
1	52	39	MET	CA-C	5.47	1.60	1.52
1	5c	113	GLU	CA-CB	5.47	1.61	1.53
1	5l	93	PRO	CA-CB	5.47	1.61	1.53
1	5K	60	GLY	N-CA	-5.47	1.37	1.45
1	5R	56	LEU	CA-CB	5.47	1.61	1.53
1	6v	124	ILE	CA-C	5.47	1.57	1.53
1	6w	228	ALA	N-CA	-5.47	1.39	1.46
1	6F	95	GLN	N-CA	-5.47	1.39	1.45
1	6H	43	LEU	C-N	5.47	1.41	1.33
1	6Z	128	GLU	CA-CB	5.47	1.61	1.53
1	7C	152	ASP	N-CA	-5.47	1.38	1.46
1	7V	142	VAL	N-CA	5.47	1.52	1.46
1	8T	23	TRP	CA-CB	5.47	1.61	1.53
1	8Y	226	HIS	CA-CB	5.47	1.62	1.53
1	9o	158	LYS	CA-CB	5.47	1.61	1.53
1	9Q	163	ASP	CA-C	5.47	1.59	1.52
1	a5	94	GLY	C-N	5.47	1.41	1.33
1	aV	199	LYS	CA-CB	5.47	1.61	1.53
1	ba	112	GLN	C-N	-5.47	1.26	1.33
1	ba	176	GLN	CA-C	-5.47	1.45	1.52
1	bJ	161	PHE	N-CA	5.47	1.52	1.46
1	1d	89	GLY	CA-C	-5.47	1.44	1.51
1	cB	193	ASN	CA-C	5.47	1.59	1.52
1	cP	6	LEU	CA-C	5.47	1.60	1.53
1	d7	57	ASN	CA-C	5.47	1.60	1.52
1	d7	77	ALA	C-N	5.47	1.41	1.33
1	d8	213	GLU	C-N	5.47	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dg	152	ASP	CA-C	5.47	1.60	1.53
1	dq	215	MET	CG-SD	5.47	1.94	1.80
1	ds	187	GLU	N-CA	-5.47	1.39	1.46
1	dT	53	ASN	CA-CB	5.47	1.61	1.53
1	eA	17	PRO	C-O	-5.47	1.17	1.24
1	eX	2	ILE	CA-CB	-5.47	1.47	1.54
1	f5	61	GLY	N-CA	5.47	1.48	1.44
1	1v	148	THR	CA-C	-5.47	1.45	1.52
1	fj	62	HIS	CE1-NE2	5.47	1.38	1.32
1	fj	81	ASP	CA-C	-5.47	1.45	1.52
1	fC	69	LEU	N-CA	5.47	1.52	1.46
1	fK	69	LEU	C-N	5.47	1.40	1.33
1	1B	219	GLN	CA-CB	5.47	1.60	1.53
1	g	143	ARG	NE-CZ	5.47	1.39	1.33
1	h	87	HIS	CG-CD2	5.47	1.41	1.35
1	i	64	ALA	CA-C	5.47	1.59	1.52
1	S	71	GLU	C-N	5.47	1.40	1.33
1	9	180	GLU	C-N	5.47	1.40	1.33
1	gi	64	ALA	C-N	5.46	1.41	1.33
1	gq	197	ASP	CA-CB	5.46	1.61	1.53
1	gz	197	ASP	CA-CB	5.46	1.62	1.53
1	1H	100	ARG	CZ-NH2	-5.46	1.26	1.33
1	hg	179	GLN	CA-CB	-5.46	1.44	1.53
1	hu	176	GLN	C-N	5.46	1.41	1.33
1	hM	142	VAL	N-CA	5.46	1.52	1.46
1	hP	176	GLN	CA-CB	5.46	1.62	1.53
1	i8	189	LEU	N-CA	5.46	1.53	1.46
1	ib	59	VAL	CA-CB	-5.46	1.47	1.54
1	io	168	PHE	CA-C	5.46	1.59	1.52
1	iM	164	TYR	C-N	5.46	1.40	1.33
1	iQ	189	LEU	N-CA	-5.46	1.39	1.46
1	iY	66	MET	C-N	5.46	1.41	1.33
1	iY	179	GLN	CA-CB	5.46	1.62	1.53
1	jg	5	ASN	CA-CB	5.46	1.62	1.53
1	jp	169	TYR	C-N	5.46	1.40	1.33
1	jt	13	GLN	CA-C	-5.46	1.46	1.52
1	jL	103	ASP	C-O	-5.46	1.17	1.24
1	jW	210	THR	CA-C	-5.46	1.45	1.52
1	jW	215	MET	CA-C	5.46	1.59	1.52
1	ku	143	ARG	CA-CB	5.46	1.61	1.53
1	25	153	ILE	CA-C	5.46	1.58	1.52
1	l1	159	GLU	N-CA	5.46	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lH	73	ILE	C-N	5.46	1.41	1.33
1	2f	135	ILE	CA-C	5.46	1.60	1.52
1	2o	80	TRP	CA-CB	5.46	1.61	1.53
1	2z	121	ASN	N-CA	-5.46	1.40	1.46
1	3k	134	ILE	C-N	5.46	1.40	1.33
1	3o	82	ARG	CA-CB	5.46	1.61	1.53
1	3U	198	CYS	C-N	5.46	1.41	1.33
1	4d	216	THR	CA-C	-5.46	1.45	1.52
1	4d	223	GLY	CA-C	5.46	1.59	1.51
1	4C	187	GLU	N-CA	5.46	1.52	1.46
1	4K	38	PRO	C-N	5.46	1.40	1.33
1	4T	104	ILE	CA-C	5.46	1.59	1.52
1	5f	128	GLU	C-N	5.46	1.40	1.33
1	5t	201	ILE	CA-CB	-5.46	1.47	1.54
1	5F	197	ASP	CA-CB	5.46	1.61	1.53
1	5M	203	LYS	CA-CB	5.46	1.61	1.53
1	6d	12	HIS	ND1-CE1	5.46	1.38	1.32
1	6C	85	PRO	CA-C	5.46	1.60	1.52
1	6H	144	MET	N-CA	-5.46	1.39	1.46
1	6T	124	ILE	N-CA	-5.46	1.42	1.46
1	7g	62	HIS	CE1-NE2	5.46	1.38	1.32
1	7t	129	ILE	CA-CB	5.46	1.60	1.54
1	7J	109	SER	CA-C	-5.46	1.46	1.52
1	83	20	LEU	CA-CB	5.46	1.61	1.53
1	8a	78	ALA	CA-C	-5.46	1.45	1.52
1	8c	87	HIS	N-CA	-5.46	1.39	1.46
1	8g	28	GLU	N-CA	5.46	1.52	1.46
1	8h	9	GLN	CA-CB	5.46	1.61	1.53
1	8m	127	GLY	N-CA	5.46	1.52	1.45
1	8s	170	LYS	C-N	5.46	1.41	1.34
1	8A	191	VAL	C-O	-5.46	1.18	1.24
1	8D	126	VAL	CA-C	5.46	1.60	1.52
1	8I	111	LEU	C-N	5.46	1.40	1.33
1	8K	138	LEU	N-CA	-5.46	1.39	1.46
1	8O	127	GLY	CA-C	-5.46	1.46	1.52
1	8U	154	ARG	CA-C	-5.46	1.46	1.52
1	9h	186	THR	N-CA	5.46	1.52	1.46
1	9n	85	PRO	N-CA	5.46	1.53	1.47
1	9w	6	LEU	C-O	-5.46	1.16	1.24
1	9z	26	VAL	CA-CB	-5.46	1.47	1.54
1	9O	115	ILE	CA-CB	-5.46	1.47	1.54
1	9Q	84	HIS	N-CA	-5.46	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9U	176	GLN	N-CA	5.46	1.53	1.46
1	al	130	TYR	CA-CB	5.46	1.61	1.53
1	aU	45	GLU	CA-C	5.46	1.60	1.52
1	aV	143	ARG	CA-CB	5.46	1.61	1.53
1	aW	85	PRO	N-CD	-5.46	1.40	1.47
1	bb	26	VAL	N-CA	-5.46	1.40	1.46
1	19	223	GLY	N-CA	5.46	1.52	1.44
1	bP	172	LEU	CB-CG	-5.46	1.42	1.53
1	bQ	29	GLU	C-O	-5.46	1.16	1.24
1	c1	130	TYR	C-N	5.46	1.41	1.33
1	c3	134	ILE	CA-CB	-5.46	1.48	1.54
1	c4	109	SER	N-CA	5.46	1.53	1.46
1	cw	192	GLN	CA-C	5.46	1.60	1.52
1	d0	67	GLN	C-O	-5.46	1.17	1.24
1	dd	203	LYS	C-O	-5.46	1.16	1.24
1	df	125	PRO	C-N	-5.46	1.27	1.33
1	dk	62	HIS	CE1-NE2	5.46	1.38	1.32
1	dl	6	LEU	N-CA	-5.46	1.38	1.46
1	dD	163	ASP	CA-CB	5.46	1.61	1.53
1	1m	192	GLN	N-CA	5.46	1.53	1.46
1	e3	70	LYS	C-N	5.46	1.41	1.33
1	ee	218	CYS	CA-C	5.46	1.59	1.52
1	ep	155	GLN	CA-C	5.46	1.59	1.52
1	eF	120	HIS	N-CA	5.46	1.53	1.46
1	eH	202	LEU	CA-C	-5.46	1.45	1.52
1	eW	181	VAL	CA-C	-5.46	1.45	1.52
1	f9	181	VAL	CA-C	5.46	1.59	1.52
1	fq	93	PRO	C-N	5.46	1.40	1.33
1	fs	173	ARG	CD-NE	5.46	1.53	1.46
1	fP	168	PHE	CA-CB	5.46	1.61	1.53
1	fT	18	ARG	CA-CB	5.46	1.61	1.53
1	g0	5	ASN	CA-CB	5.46	1.60	1.53
1	gq	226	HIS	CA-CB	5.46	1.58	1.53
1	gv	108	THR	CA-C	-5.46	1.45	1.52
1	1G	208	ALA	CA-C	-5.46	1.45	1.52
1	1G	215	MET	N-CA	-5.46	1.38	1.46
1	1H	166	ASP	CA-C	5.46	1.59	1.52
1	hg	4	GLN	CA-CB	5.46	1.61	1.53
1	hy	191	VAL	C-N	5.46	1.41	1.34
1	i4	130	TYR	CA-C	-5.46	1.45	1.52
1	ic	218	CYS	CA-C	-5.46	1.45	1.52
1	iw	193	ASN	C-N	5.46	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iz	218	CYS	CA-C	-5.46	1.48	1.53
1	iZ	135	ILE	C-N	5.46	1.41	1.33
1	jx	220	GLY	N-CA	5.46	1.50	1.45
1	kv	149	SER	C-N	5.46	1.40	1.34
1	lz	48	THR	N-CA	5.46	1.53	1.45
1	lR	210	THR	C-N	5.46	1.41	1.33
1	2r	26	VAL	CA-C	-5.46	1.46	1.52
1	2r	97	ARG	CZ-NH2	5.46	1.40	1.33
1	2P	188	THR	CA-C	5.46	1.55	1.52
1	3J	187	GLU	C-N	5.46	1.41	1.33
1	4G	26	VAL	CA-CB	-5.46	1.47	1.54
1	4Z	142	VAL	CA-C	5.46	1.60	1.52
1	50	174	ALA	C-O	-5.46	1.16	1.24
1	5o	150	ILE	C-N	5.46	1.41	1.33
1	5J	114	GLN	N-CA	5.46	1.52	1.46
1	5Y	216	THR	C-N	5.46	1.41	1.33
1	63	211	LEU	CA-C	5.46	1.59	1.52
1	6W	226	HIS	CA-CB	5.46	1.63	1.53
1	7p	45	GLU	N-CA	5.46	1.53	1.46
1	7w	76	GLU	C-N	5.46	1.41	1.34
1	7K	62	HIS	C-N	5.46	1.40	1.33
1	81	16	SER	CB-OG	5.46	1.53	1.42
1	87	119	THR	C-N	5.46	1.40	1.33
1	8n	217	ALA	C-N	5.46	1.41	1.33
1	8K	77	ALA	CA-CB	5.46	1.61	1.53
1	9c	71	GLU	C-N	5.46	1.41	1.33
1	9y	78	ALA	CA-C	-5.46	1.45	1.52
1	ao	40	PHE	CG-CD2	5.46	1.50	1.38
1	ap	148	THR	N-CA	-5.46	1.39	1.46
1	aB	150	ILE	CA-CB	-5.46	1.48	1.54
1	b9	91	ILE	N-CA	-5.46	1.40	1.46
1	bv	192	GLN	C-N	5.46	1.41	1.33
1	cs	152	ASP	CA-CB	5.46	1.62	1.53
1	cx	54	THR	C-N	5.46	1.40	1.33
1	dg	223	GLY	CA-C	5.46	1.59	1.51
1	ea	171	THR	C-N	5.46	1.41	1.33
1	fq	32	PHE	N-CA	-5.46	1.39	1.46
1	fq	226	HIS	CG-ND1	5.46	1.44	1.38
1	fE	73	ILE	N-CA	5.46	1.53	1.46
1	fH	180	GLU	C-N	5.46	1.40	1.33
1	g0	85	PRO	CA-CB	5.46	1.60	1.53
1	e	151	LEU	CA-CB	5.46	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	124	ILE	CA-C	-5.46	1.48	1.53
1	gf	129	ILE	N-CA	5.46	1.52	1.46
1	gg	72	THR	C-N	5.46	1.40	1.33
1	gK	64	ALA	CA-CB	5.46	1.61	1.53
1	gM	1	PRO	N-CD	5.46	1.55	1.47
1	gY	215	MET	N-CA	-5.46	1.38	1.46
1	h8	92	GLU	N-CA	-5.46	1.37	1.46
1	h8	218	CYS	C-N	5.46	1.41	1.33
1	hj	53	ASN	CA-CB	5.46	1.61	1.53
1	hx	222	GLY	CA-C	5.46	1.59	1.51
1	hI	34	PRO	CA-C	-5.46	1.42	1.52
1	hP	87	HIS	CD2-NE2	5.46	1.43	1.37
1	i6	221	VAL	CA-CB	-5.46	1.47	1.54
1	ie	152	ASP	CA-CB	5.46	1.62	1.53
1	ig	150	ILE	CA-CB	5.46	1.61	1.54
1	im	218	CYS	N-CA	-5.46	1.39	1.46
1	iu	51	ASP	CA-C	5.46	1.59	1.52
1	iG	73	ILE	N-CA	-5.46	1.40	1.46
1	1W	166	ASP	N-CA	-5.46	1.39	1.46
1	jK	11	VAL	CA-CB	5.46	1.59	1.54
1	jO	25	LYS	C-N	5.46	1.40	1.33
1	k6	80	TRP	NE1-CE2	5.46	1.43	1.37
1	kv	123	PRO	CA-CB	5.46	1.60	1.53
1	kE	157	PRO	N-CA	5.46	1.54	1.47
1	kX	76	GLU	CA-C	5.46	1.59	1.52
1	kY	152	ASP	CA-C	5.46	1.60	1.52
1	kZ	167	ARG	CZ-NH2	-5.46	1.26	1.33
1	l0	198	CYS	CA-C	-5.46	1.45	1.52
1	lg	130	TYR	N-CA	-5.46	1.39	1.46
1	ll	213	GLU	CA-CB	5.46	1.61	1.53
1	lt	127	GLY	CA-C	-5.46	1.46	1.52
1	lx	53	ASN	C-O	5.46	1.30	1.24
1	2s	211	LEU	N-CA	5.46	1.52	1.46
1	2x	205	LEU	CA-CB	5.46	1.61	1.53
1	2L	71	GLU	CA-C	5.46	1.60	1.52
1	37	65	ALA	C-O	-5.46	1.17	1.24
1	39	229	ARG	CZ-NH2	-5.46	1.26	1.33
1	3e	86	VAL	CA-C	5.46	1.59	1.52
1	4h	115	ILE	CB-CG1	5.46	1.64	1.53
1	4F	6	LEU	CA-CB	5.46	1.61	1.53
1	4F	128	GLU	C-N	5.46	1.40	1.33
1	4H	6	LEU	CA-C	-5.46	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4M	10	MET	CA-C	5.46	1.59	1.52
1	4P	150	ILE	CA-C	5.46	1.60	1.52
1	56	2	ILE	CA-C	-5.46	1.46	1.52
1	58	209	ALA	N-CA	5.46	1.52	1.45
1	5d	208	ALA	CA-C	5.46	1.60	1.52
1	5f	124	ILE	CA-C	5.46	1.58	1.52
1	5Y	119	THR	CA-C	5.46	1.60	1.52
1	62	25	LYS	CA-CB	5.46	1.62	1.53
1	6d	5	ASN	CA-CB	5.46	1.62	1.53
1	6d	38	PRO	N-CA	-5.46	1.40	1.47
1	6f	143	ARG	N-CA	-5.46	1.39	1.46
1	6r	144	MET	C-N	5.46	1.41	1.33
1	6w	102	SER	N-CA	-5.46	1.38	1.46
1	6D	84	HIS	ND1-CE1	5.46	1.38	1.32
1	6V	133	TRP	CZ2-CH2	5.46	1.47	1.37
1	74	103	ASP	CA-C	-5.46	1.45	1.52
1	7i	111	LEU	CA-C	5.46	1.59	1.52
1	8p	62	HIS	C-N	5.46	1.41	1.33
1	8p	167	ARG	C-N	5.46	1.40	1.33
1	8B	201	ILE	CA-CB	-5.46	1.48	1.54
1	8E	194	ALA	N-CA	-5.46	1.38	1.45
1	8P	128	GLU	CA-CB	5.46	1.61	1.53
1	8Q	225	GLY	CA-C	-5.46	1.46	1.52
1	9d	142	VAL	CA-C	-5.46	1.46	1.52
1	9i	71	GLU	CA-C	5.46	1.59	1.52
1	9p	205	LEU	N-CA	-5.46	1.39	1.46
1	9v	123	PRO	N-CA	5.46	1.54	1.47
1	9x	221	VAL	CA-CB	5.46	1.61	1.54
1	a7	80	TRP	C-O	-5.46	1.17	1.24
1	10	11	VAL	CA-C	5.46	1.59	1.52
1	b7	150	ILE	C-O	-5.46	1.17	1.24
1	by	79	GLU	N-CA	-5.46	1.39	1.46
1	bJ	210	THR	CA-CB	-5.46	1.44	1.53
1	bV	142	VAL	CA-CB	-5.46	1.47	1.54
1	c4	79	GLU	N-CA	5.46	1.52	1.46
1	c4	142	VAL	CA-CB	5.46	1.62	1.54
1	1c	96	MET	C-N	5.46	1.41	1.33
1	c7	205	LEU	N-CA	-5.46	1.39	1.46
1	ch	131	LYS	CA-CB	5.46	1.61	1.53
1	cn	70	LYS	CA-CB	5.46	1.62	1.53
1	cp	25	LYS	CA-C	-5.46	1.45	1.52
1	ct	142	VAL	N-CA	5.46	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d7	127	GLY	N-CA	5.46	1.52	1.45
1	df	63	GLN	C-N	5.46	1.41	1.33
1	dz	229	ARG	CA-C	5.46	1.59	1.52
1	dD	195	ASN	CA-CB	5.46	1.62	1.53
1	dV	189	LEU	C-N	5.46	1.41	1.33
1	e4	90	PRO	CA-CB	5.46	1.61	1.53
1	eb	7	GLN	CA-C	5.46	1.59	1.52
1	ek	17	PRO	CA-C	-5.46	1.44	1.52
1	1r	12	HIS	ND1-CE1	5.46	1.38	1.32
1	f1	136	LEU	CA-C	5.46	1.59	1.52
1	fg	50	GLN	CA-CB	5.46	1.62	1.53
1	fW	85	PRO	C-N	-5.46	1.27	1.33
1	fW	98	GLU	C-N	5.46	1.40	1.33
1	g1	130	TYR	N-CA	5.46	1.52	1.46
1	1	7	GLN	CA-CB	5.46	1.63	1.53
1	A	165	VAL	C-N	-5.46	1.27	1.33
1	B	98	GLU	C-N	5.46	1.40	1.33
1	C	58	THR	C-N	5.46	1.39	1.33
1	D	5	ASN	CA-CB	5.46	1.61	1.53
1	K	42	ALA	CA-C	5.46	1.59	1.52
1	R	95	GLN	CA-CB	5.46	1.61	1.54
1	9	27	VAL	CA-C	-5.46	1.46	1.52
1	gp	157	PRO	N-CD	-5.46	1.40	1.47
1	gG	162	ARG	CD-NE	5.46	1.53	1.46
1	1F	134	ILE	CA-CB	5.46	1.60	1.54
1	hk	167	ARG	N-CA	5.46	1.53	1.46
1	ik	224	PRO	N-CA	5.46	1.53	1.47
1	io	169	TYR	CA-C	5.46	1.59	1.52
1	iv	99	PRO	CA-CB	5.46	1.60	1.53
1	jn	218	CYS	CA-C	-5.46	1.46	1.53
1	ln	65	ALA	C-N	5.46	1.41	1.33
1	2a	93	PRO	C-N	5.46	1.40	1.33
1	3g	57	ASN	CG-ND2	5.46	1.44	1.33
1	4k	169	TYR	N-CA	-5.46	1.39	1.46
1	4r	145	TYR	CA-CB	5.46	1.61	1.53
1	4C	11	VAL	N-CA	5.46	1.53	1.46
1	4I	153	ILE	CA-CB	5.46	1.60	1.53
1	4T	115	ILE	N-CA	-5.46	1.40	1.46
1	4U	184	TRP	N-CA	-5.46	1.39	1.46
1	4W	208	ALA	CA-CB	5.46	1.61	1.53
1	64	80	TRP	CA-CB	5.46	1.61	1.53
1	6C	121	ASN	CA-CB	5.46	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6V	150	ILE	CA-C	5.46	1.60	1.52
1	7S	181	VAL	CA-C	5.46	1.59	1.52
1	8a	77	ALA	N-CA	-5.46	1.39	1.46
1	8d	39	MET	CA-CB	5.46	1.61	1.53
1	8E	163	ASP	CA-CB	5.46	1.61	1.53
1	9r	138	LEU	CB-CG	5.46	1.64	1.53
1	9F	86	VAL	CA-CB	-5.46	1.47	1.54
1	9R	51	ASP	CA-C	5.46	1.59	1.52
1	ax	71	GLU	CA-C	-5.46	1.45	1.52
1	b7	69	LEU	C-N	5.46	1.41	1.34
1	bZ	87	HIS	ND1-CE1	5.46	1.38	1.32
1	cd	135	ILE	CA-CB	-5.46	1.48	1.54
1	cK	145	TYR	C-N	5.46	1.42	1.33
1	d3	54	THR	CA-CB	5.46	1.61	1.53
1	dz	150	ILE	CA-CB	5.46	1.62	1.54
1	dF	86	VAL	CA-CB	-5.46	1.47	1.54
1	1o	97	ARG	C-N	5.46	1.41	1.33
1	es	144	MET	C-N	-5.46	1.26	1.34
1	eu	82	ARG	N-CA	5.46	1.53	1.46
1	fA	7	GLN	N-CA	5.46	1.53	1.46
1	fT	9	GLN	C-N	5.46	1.41	1.33
1	g2	105	ALA	N-CA	-5.46	1.38	1.46
1	E	230	VAL	C-N	5.46	1.41	1.33
1	J	50	GLN	CA-C	5.46	1.60	1.52
1	g8	227	LYS	CA-CB	5.46	1.61	1.53
1	gs	164	TYR	CA-CB	5.46	1.61	1.53
1	gB	8	GLY	CA-C	5.46	1.59	1.51
1	gQ	13	GLN	CA-CB	5.46	1.62	1.53
1	h2	130	TYR	CA-CB	5.46	1.61	1.53
1	h6	27	VAL	CA-CB	5.46	1.61	1.54
1	ha	167	ARG	CD-NE	5.46	1.53	1.46
1	1J	134	ILE	C-N	5.46	1.40	1.33
1	hr	70	LYS	C-N	5.46	1.41	1.33
1	hB	128	GLU	CA-C	5.46	1.60	1.52
1	1L	152	ASP	N-CA	-5.46	1.39	1.46
1	hS	68	MET	CA-C	5.46	1.59	1.52
1	i4	222	GLY	CA-C	-5.46	1.46	1.52
1	i6	80	TRP	C-N	5.46	1.41	1.33
1	i8	179	GLN	N-CA	5.46	1.52	1.46
1	in	53	ASN	CA-CB	5.46	1.61	1.53
1	iz	165	VAL	CA-CB	5.46	1.61	1.54
1	iE	49	PRO	N-CD	5.46	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iZ	181	VAL	CA-CB	5.46	1.60	1.54
1	jf	200	THR	C-O	-5.46	1.17	1.24
1	jp	178	SER	CA-C	5.46	1.59	1.52
1	jY	159	GLU	C-N	5.46	1.39	1.34
1	1Z	62	HIS	CA-C	-5.46	1.46	1.53
1	k2	2	ILE	CA-C	5.46	1.59	1.52
1	k3	98	GLU	CA-CB	5.46	1.63	1.53
1	kx	57	ASN	N-CA	-5.46	1.38	1.46
1	lx	99	PRO	CA-C	-5.46	1.46	1.52
1	2m	45	GLU	CA-C	-5.46	1.45	1.52
1	2t	164	TYR	CB-CG	5.46	1.63	1.51
1	2O	52	LEU	CA-CB	5.46	1.61	1.53
1	2R	173	ARG	CZ-NH2	-5.46	1.26	1.33
1	2Z	17	PRO	CA-CB	5.46	1.61	1.53
1	3v	152	ASP	CA-CB	5.46	1.61	1.53
1	3I	226	HIS	ND1-CE1	5.46	1.38	1.32
1	3K	71	GLU	CA-C	-5.46	1.45	1.52
1	3M	126	VAL	N-CA	5.46	1.53	1.46
1	4X	31	ALA	N-CA	5.46	1.52	1.46
1	54	147	PRO	C-N	5.46	1.41	1.33
1	5o	26	VAL	CA-CB	-5.46	1.47	1.54
1	5K	87	HIS	ND1-CE1	5.46	1.38	1.32
1	5M	40	PHE	CA-CB	5.46	1.61	1.53
1	5Q	81	ASP	C-N	5.46	1.41	1.33
1	5V	102	SER	N-CA	-5.46	1.38	1.46
1	68	166	ASP	CA-CB	5.46	1.61	1.53
1	6p	224	PRO	C-N	5.46	1.40	1.33
1	6O	164	TYR	CA-C	5.46	1.59	1.52
1	72	143	ARG	CD-NE	5.46	1.53	1.46
1	7Y	25	LYS	CA-C	5.46	1.59	1.52
1	84	107	THR	CA-C	5.46	1.60	1.52
1	85	183	ASN	CA-CB	5.46	1.61	1.53
1	85	230	VAL	CA-CB	5.46	1.61	1.54
1	8g	226	HIS	CE1-NE2	-5.46	1.27	1.32
1	8j	133	TRP	NE1-CE2	5.46	1.43	1.37
1	8I	202	LEU	N-CA	-5.46	1.39	1.46
1	96	196	PRO	C-N	5.46	1.41	1.34
1	9m	67	GLN	CA-C	5.46	1.59	1.52
1	9o	145	TYR	CA-CB	5.46	1.60	1.53
1	9r	139	ASN	CA-CB	5.46	1.61	1.53
1	9v	227	LYS	CA-C	5.46	1.59	1.52
1	9K	147	PRO	N-CD	5.46	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9P	166	ASP	CA-CB	5.46	1.61	1.53
1	9V	163	ASP	CA-C	5.46	1.59	1.52
1	9W	68	MET	C-N	5.46	1.40	1.33
1	at	185	MET	CA-C	5.46	1.60	1.52
1	aF	81	ASP	N-CA	-5.46	1.39	1.46
1	b4	132	ARG	CD-NE	5.46	1.53	1.46
1	bu	181	VAL	N-CA	5.46	1.52	1.46
1	bu	202	LEU	C-N	5.46	1.41	1.33
1	by	187	GLU	CA-C	5.46	1.59	1.52
1	bO	22	ALA	CA-CB	5.46	1.61	1.53
1	bR	118	MET	CA-C	5.46	1.60	1.52
1	bU	131	LYS	N-CA	-5.46	1.39	1.46
1	c1	38	PRO	N-CA	-5.46	1.40	1.47
1	c9	212	GLU	CA-CB	5.46	1.61	1.53
1	ca	118	MET	N-CA	5.46	1.53	1.46
1	ca	123	PRO	C-O	5.46	1.30	1.23
1	cd	132	ARG	CA-CB	5.46	1.61	1.53
1	ch	22	ALA	N-CA	-5.46	1.39	1.46
1	ct	57	ASN	CA-C	-5.46	1.45	1.52
1	cv	7	GLN	CA-C	5.46	1.60	1.52
1	cy	180	GLU	CA-C	5.46	1.59	1.52
1	cE	184	TRP	CA-CB	5.46	1.61	1.53
1	cI	173	ARG	CZ-NH2	-5.46	1.26	1.33
1	cW	201	ILE	CA-C	-5.46	1.45	1.52
1	cZ	76	GLU	CA-C	5.46	1.59	1.52
1	dO	105	ALA	N-CA	5.46	1.53	1.46
1	dO	147	PRO	CA-C	-5.46	1.46	1.52
1	dT	163	ASP	CA-C	5.46	1.60	1.52
1	dX	149	SER	C-O	5.46	1.30	1.23
1	ey	91	ILE	N-CA	5.46	1.52	1.46
1	eC	152	ASP	C-N	5.46	1.40	1.33
1	fa	213	GLU	C-N	5.46	1.41	1.33
1	fj	6	LEU	CA-CB	5.46	1.61	1.53
1	fm	97	ARG	CZ-NH2	-5.46	1.26	1.33
1	fr	92	GLU	CA-C	5.46	1.57	1.52
1	fw	136	LEU	N-CA	5.46	1.52	1.46
1	fS	192	GLN	CA-CB	5.46	1.61	1.53
1	fV	129	ILE	N-CA	-5.46	1.40	1.46
1	g5	151	LEU	N-CA	-5.46	1.38	1.46
1	t	184	TRP	NE1-CE2	-5.46	1.31	1.37
1	v	227	LYS	CA-CB	5.46	1.62	1.53
1	U	13	GLN	C-N	5.46	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gw	33	SER	CA-C	5.46	1.57	1.52
1	gy	91	ILE	CA-CB	5.46	1.61	1.54
1	gy	146	SER	CA-C	-5.46	1.47	1.53
1	gD	29	GLU	N-CA	-5.46	1.39	1.46
1	gK	188	THR	N-CA	5.46	1.53	1.46
1	gX	210	THR	N-CA	5.46	1.52	1.45
1	1J	82	ARG	CD-NE	5.46	1.53	1.46
1	1K	196	PRO	CA-CB	5.46	1.61	1.53
1	hA	211	LEU	N-CA	-5.46	1.39	1.46
1	hR	199	LYS	CA-C	-5.46	1.45	1.52
1	hV	141	ILE	CA-CB	-5.46	1.47	1.54
1	hW	53	ASN	C-O	-5.46	1.17	1.24
1	hZ	81	ASP	CA-C	5.46	1.59	1.52
1	ij	81	ASP	CA-CB	5.46	1.63	1.53
1	iH	176	GLN	C-N	5.46	1.40	1.33
1	j0	190	LEU	CA-C	5.46	1.60	1.52
1	j1	179	GLN	CA-C	5.46	1.60	1.52
1	j3	108	THR	CA-CB	5.46	1.61	1.53
1	jx	79	GLU	N-CA	-5.46	1.39	1.46
1	jD	42	ALA	C-O	-5.46	1.17	1.24
1	jJ	133	TRP	C-N	5.46	1.40	1.33
1	jL	55	MET	CG-SD	5.46	1.94	1.80
1	jM	194	ALA	CA-C	5.46	1.60	1.52
1	1Y	5	ASN	CA-C	5.46	1.60	1.53
1	jX	180	GLU	CA-CB	5.46	1.62	1.53
1	kj	103	ASP	C-N	5.46	1.40	1.33
1	kq	107	THR	CA-CB	5.46	1.62	1.53
1	kO	65	ALA	N-CA	-5.46	1.39	1.46
1	kR	127	GLY	CA-C	-5.46	1.45	1.52
1	kS	217	ALA	C-O	-5.46	1.17	1.23
1	kU	162	ARG	CA-C	-5.46	1.45	1.52
1	l0	183	ASN	N-CA	-5.46	1.39	1.46
1	27	12	HIS	CA-CB	5.46	1.61	1.53
1	li	42	ALA	C-N	5.46	1.41	1.33
1	lk	11	VAL	CA-C	-5.46	1.46	1.52
1	lu	40	PHE	C-N	5.46	1.40	1.33
1	lJ	48	THR	C-O	5.46	1.30	1.23
1	2a	124	ILE	CA-C	5.46	1.57	1.53
1	lP	120	HIS	CA-CB	5.46	1.62	1.53
1	2b	158	LYS	CA-C	5.46	1.59	1.52
1	2h	19	THR	CA-C	5.46	1.59	1.52
1	2p	85	PRO	CA-CB	5.46	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2q	13	GLN	CA-C	-5.46	1.46	1.52
1	2t	18	ARG	CD-NE	5.46	1.53	1.46
1	2H	97	ARG	N-CA	-5.46	1.39	1.46
1	2V	215	MET	CA-C	5.46	1.60	1.52
1	37	173	ARG	C-N	5.46	1.41	1.33
1	3a	30	LYS	CA-C	5.46	1.59	1.53
1	3c	74	ASN	C-N	5.46	1.41	1.34
1	3q	133	TRP	CA-CB	5.46	1.61	1.53
1	3v	213	GLU	CA-CB	5.46	1.61	1.53
1	3Z	189	LEU	C-N	5.46	1.41	1.33
1	4e	113	GLU	CA-C	-5.46	1.45	1.52
1	4y	50	GLN	CA-C	-5.46	1.45	1.52
1	4Y	132	ARG	N-CA	5.46	1.53	1.46
1	57	64	ALA	CA-CB	5.46	1.62	1.53
1	5b	108	THR	N-CA	5.46	1.52	1.46
1	5f	66	MET	CA-C	-5.46	1.45	1.52
1	5p	143	ARG	CA-CB	5.46	1.61	1.53
1	5G	167	ARG	C-N	5.46	1.41	1.33
1	5J	79	GLU	C-O	-5.46	1.17	1.24
1	5T	125	PRO	CA-CB	-5.46	1.46	1.53
1	6Y	180	GLU	C-N	5.46	1.40	1.33
1	70	124	ILE	CA-CB	-5.46	1.47	1.54
1	7o	56	LEU	N-CA	-5.46	1.39	1.46
1	7s	195	ASN	CA-C	-5.46	1.47	1.53
1	7x	118	MET	N-CA	-5.46	1.39	1.46
1	7U	2	ILE	C-N	5.46	1.40	1.33
1	82	104	ILE	CA-C	5.46	1.59	1.52
1	8c	174	ALA	CA-C	5.46	1.59	1.52
1	8m	102	SER	CA-C	5.46	1.60	1.52
1	8p	204	ALA	CA-C	5.46	1.59	1.52
1	8t	216	THR	N-CA	5.46	1.53	1.46
1	8D	154	ARG	CZ-NH2	-5.46	1.26	1.33
1	8Y	50	GLN	C-N	5.46	1.41	1.33
1	9p	90	PRO	C-N	5.46	1.40	1.33
1	9t	11	VAL	C-N	5.46	1.41	1.33
1	9u	216	THR	N-CA	5.46	1.53	1.46
1	9A	84	HIS	CG-CD2	5.46	1.41	1.35
1	9F	100	ARG	CD-NE	5.46	1.53	1.46
1	9L	174	ALA	CA-C	5.46	1.56	1.52
1	9P	97	ARG	CD-NE	5.46	1.53	1.46
1	a4	11	VAL	C-O	-5.46	1.18	1.24
1	ai	136	LEU	N-CA	-5.46	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aS	70	LYS	CA-C	5.46	1.59	1.52
1	b3	52	LEU	CA-C	5.46	1.60	1.52
1	b7	144	MET	N-CA	5.46	1.53	1.46
1	ba	172	LEU	C-N	-5.46	1.26	1.34
1	be	22	ALA	N-CA	5.46	1.53	1.46
1	bo	40	PHE	CA-C	-5.46	1.45	1.52
1	bq	5	ASN	CA-C	5.46	1.60	1.52
1	by	18	ARG	CA-C	5.46	1.59	1.52
1	bZ	141	ILE	CA-C	5.46	1.59	1.52
1	ci	167	ARG	CD-NE	5.46	1.53	1.46
1	1f	50	GLN	CA-C	5.46	1.59	1.52
1	dl	113	GLU	C-N	5.46	1.40	1.33
1	dx	184	TRP	N-CA	-5.46	1.39	1.46
1	dB	12	HIS	ND1-CE1	5.46	1.38	1.32
1	dR	8	GLY	CA-C	-5.46	1.45	1.52
1	1v	26	VAL	CA-CB	-5.46	1.48	1.54
1	fl	140	LYS	CA-CB	5.46	1.61	1.53
1	fn	190	LEU	CA-CB	5.46	1.62	1.53
1	ft	132	ARG	CZ-NH1	-5.46	1.25	1.32
1	fB	74	ASN	N-CA	-5.46	1.39	1.46
1	fB	95	GLN	CG-CD	5.46	1.65	1.52
1	fR	169	TYR	N-CA	-5.46	1.39	1.46
1	g5	26	VAL	C-N	5.46	1.40	1.33
1	d	113	GLU	C-N	5.46	1.41	1.33
1	o	102	SER	CA-CB	5.46	1.61	1.53
1	E	35	GLU	CA-CB	5.46	1.62	1.53
1	Q	22	ALA	N-CA	-5.46	1.39	1.46
1	gM	189	LEU	N-CA	5.46	1.52	1.46
1	im	43	LEU	N-CA	5.46	1.53	1.46
1	j3	44	SER	C-N	5.46	1.41	1.33
1	jc	2	ILE	C-O	-5.46	1.17	1.24
1	jm	151	LEU	N-CA	5.46	1.53	1.46
1	jG	53	ASN	CA-CB	5.46	1.61	1.53
1	ky	192	GLN	C-N	5.46	1.41	1.33
1	kF	142	VAL	CA-C	-5.46	1.45	1.52
1	l2	76	GLU	CA-CB	5.46	1.62	1.53
1	2o	41	SER	CA-CB	5.46	1.61	1.53
1	3w	144	MET	CA-C	-5.46	1.45	1.52
1	3E	217	ALA	CA-C	-5.46	1.46	1.53
1	4Y	9	GLN	CA-C	5.46	1.59	1.52
1	56	224	PRO	CA-C	5.46	1.60	1.52
1	5c	50	GLN	C-N	5.46	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5g	109	SER	N-CA	5.46	1.52	1.45
1	5j	87	HIS	ND1-CE1	5.46	1.38	1.32
1	5l	70	LYS	C-O	-5.46	1.17	1.24
1	5u	80	TRP	CA-C	-5.46	1.45	1.52
1	5R	54	THR	C-N	5.46	1.41	1.33
1	6a	64	ALA	CA-C	5.46	1.59	1.52
1	7P	36	VAL	CA-CB	-5.46	1.48	1.54
1	ab	115	ILE	N-CA	-5.46	1.40	1.46
1	aw	128	GLU	CA-CB	5.46	1.61	1.53
1	aP	36	VAL	N-CA	5.46	1.53	1.46
1	aU	53	ASN	CA-C	5.46	1.59	1.52
1	bb	113	GLU	C-N	5.46	1.40	1.33
1	bj	165	VAL	C-N	-5.46	1.26	1.33
1	bq	113	GLU	CA-CB	5.46	1.61	1.53
1	bX	94	GLY	C-O	-5.46	1.17	1.24
1	cH	87	HIS	CE1-NE2	5.46	1.38	1.32
1	1g	40	PHE	CA-CB	5.46	1.61	1.53
1	cL	20	LEU	CA-C	-5.46	1.45	1.52
1	1h	103	ASP	CA-CB	5.46	1.61	1.53
1	cW	137	GLY	CA-C	-5.46	1.45	1.52
1	d2	72	THR	C-N	5.46	1.40	1.34
1	dj	17	PRO	CA-CB	5.46	1.61	1.53
1	dH	84	HIS	CE1-NE2	5.46	1.38	1.32
1	ew	217	ALA	C-O	-5.46	1.17	1.23
1	eL	182	LYS	C-N	5.46	1.40	1.33
1	eP	180	GLU	C-N	5.46	1.40	1.33
1	eZ	64	ALA	C-N	5.46	1.40	1.33
1	fv	165	VAL	N-CA	5.46	1.53	1.46
1	g6	176	GLN	CA-C	5.46	1.60	1.52
1	g7	93	PRO	CA-CB	-5.46	1.46	1.53
1	a	126	VAL	C-N	5.46	1.41	1.33
1	v	200	THR	N-CA	5.46	1.52	1.46
1	gv	179	GLN	CA-CB	5.45	1.61	1.53
1	gB	92	GLU	CA-CB	5.45	1.60	1.53
1	1E	37	ILE	CA-CB	-5.45	1.51	1.54
1	gG	6	LEU	C-N	5.45	1.41	1.33
1	gJ	63	GLN	CA-CB	5.45	1.61	1.53
1	ha	84	HIS	CG-CD2	5.45	1.41	1.35
1	he	176	GLN	CA-C	-5.45	1.45	1.52
1	hr	62	HIS	CA-C	-5.45	1.48	1.53
1	hv	124	ILE	N-CA	-5.45	1.39	1.46
1	hF	66	MET	C-O	-5.45	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hU	190	LEU	N-CA	5.45	1.52	1.46
1	in	133	TRP	C-N	5.45	1.40	1.33
1	iH	229	ARG	CD-NE	5.45	1.53	1.46
1	iK	163	ASP	CA-C	5.45	1.59	1.52
1	iP	42	ALA	N-CA	-5.45	1.39	1.46
1	iR	186	THR	C-N	-5.45	1.26	1.33
1	1S	178	SER	CA-C	-5.45	1.46	1.52
1	jf	125	PRO	N-CD	-5.45	1.40	1.47
1	jl	55	MET	CA-CB	5.45	1.61	1.53
1	jo	139	ASN	CA-CB	5.45	1.62	1.53
1	jC	87	HIS	CG-CD2	5.45	1.41	1.35
1	jE	153	ILE	CA-CB	5.45	1.59	1.54
1	jY	205	LEU	CA-C	5.45	1.60	1.52
1	k9	222	GLY	N-CA	5.45	1.50	1.45
1	kc	223	GLY	N-CA	5.45	1.53	1.44
1	kd	144	MET	N-CA	-5.45	1.39	1.46
1	kg	105	ALA	C-N	5.45	1.40	1.33
1	kn	191	VAL	CA-CB	5.45	1.60	1.54
1	kA	26	VAL	C-N	5.45	1.40	1.33
1	kZ	217	ALA	N-CA	-5.45	1.38	1.45
1	l2	224	PRO	C-N	5.45	1.41	1.33
1	ld	179	GLN	CA-CB	5.45	1.61	1.53
1	ll	113	GLU	C-O	-5.45	1.17	1.24
1	lm	111	LEU	CA-C	5.45	1.60	1.52
1	ly	136	LEU	CA-C	-5.45	1.45	1.52
1	lB	200	THR	CA-CB	5.45	1.61	1.53
1	2h	82	ARG	N-CA	-5.45	1.39	1.46
1	2n	126	VAL	C-N	5.45	1.40	1.33
1	2o	2	ILE	C-N	5.45	1.40	1.33
1	2R	83	LEU	C-N	5.45	1.40	1.33
1	34	166	ASP	CA-C	5.45	1.59	1.52
1	3d	66	MET	C-N	5.45	1.41	1.33
1	3r	133	TRP	N-CA	-5.45	1.39	1.46
1	3N	133	TRP	NE1-CE2	-5.45	1.31	1.37
1	3W	172	LEU	CA-CB	5.45	1.61	1.53
1	43	85	PRO	N-CD	-5.45	1.40	1.47
1	44	168	PHE	CA-CB	5.45	1.61	1.53
1	4v	29	GLU	CA-CB	5.45	1.61	1.54
1	4A	126	VAL	N-CA	5.45	1.53	1.46
1	56	169	TYR	C-N	5.45	1.41	1.34
1	5r	155	GLN	CA-CB	5.45	1.61	1.53
1	5s	201	ILE	CA-C	-5.45	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5A	24	VAL	C-N	5.45	1.41	1.33
1	5U	108	THR	N-CA	5.45	1.52	1.46
1	5X	173	ARG	NE-CZ	-5.45	1.27	1.33
1	5Z	40	PHE	CA-CB	5.45	1.61	1.53
1	6c	6	LEU	C-N	5.45	1.41	1.33
1	6j	111	LEU	C-N	5.45	1.41	1.34
1	6m	100	ARG	CA-C	5.45	1.60	1.53
1	6B	196	PRO	N-CA	-5.45	1.40	1.47
1	6L	33	SER	CA-CB	5.45	1.62	1.53
1	6R	129	ILE	N-CA	-5.45	1.40	1.46
1	6V	13	GLN	C-O	-5.45	1.17	1.23
1	78	24	VAL	N-CA	-5.45	1.39	1.46
1	79	23	TRP	C-N	5.45	1.40	1.33
1	7d	223	GLY	N-CA	5.45	1.50	1.43
1	7u	14	ALA	C-N	5.45	1.40	1.33
1	7u	86	VAL	CA-C	-5.45	1.46	1.52
1	7x	39	MET	CA-CB	5.45	1.61	1.53
1	7C	139	ASN	CA-C	5.45	1.59	1.52
1	7H	184	TRP	CZ2-CH2	5.45	1.47	1.37
1	7J	110	THR	N-CA	5.45	1.52	1.45
1	7U	59	VAL	C-O	5.45	1.29	1.24
1	83	23	TRP	CZ2-CH2	5.45	1.47	1.37
1	8m	62	HIS	CG-ND1	5.45	1.44	1.38
1	8y	46	GLY	N-CA	5.45	1.52	1.45
1	8y	102	SER	CA-C	-5.45	1.45	1.52
1	8P	30	LYS	C-N	5.45	1.41	1.33
1	9s	188	THR	CA-C	5.45	1.59	1.52
1	9O	149	SER	CA-CB	5.45	1.62	1.53
1	an	125	PRO	CA-CB	5.45	1.58	1.53
1	az	59	VAL	CA-C	-5.45	1.46	1.52
1	aD	158	LYS	C-N	5.45	1.41	1.33
1	aL	130	TYR	CA-C	5.45	1.59	1.52
1	b9	26	VAL	C-N	5.45	1.40	1.33
1	bb	193	ASN	CA-C	-5.45	1.45	1.52
1	bc	194	ALA	CA-CB	5.45	1.62	1.53
1	bm	189	LEU	CB-CG	5.45	1.64	1.53
1	bs	27	VAL	N-CA	5.45	1.52	1.46
1	c2	86	VAL	C-O	-5.45	1.18	1.23
1	c9	221	VAL	C-N	5.45	1.40	1.33
1	cg	115	ILE	C-N	5.45	1.40	1.33
1	ci	185	MET	C-N	5.45	1.40	1.33
1	cl	193	ASN	CA-C	5.45	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cq	229	ARG	NE-CZ	-5.45	1.27	1.33
1	cv	14	ALA	CA-C	5.45	1.59	1.52
1	cC	126	VAL	CA-C	5.45	1.60	1.52
1	cO	206	GLY	N-CA	5.45	1.52	1.44
1	cS	46	GLY	CA-C	-5.45	1.43	1.51
1	dk	229	ARG	C-N	5.45	1.40	1.33
1	dw	84	HIS	ND1-CE1	5.45	1.38	1.32
1	dC	181	VAL	N-CA	-5.45	1.40	1.46
1	dL	97	ARG	C-O	5.45	1.30	1.23
1	dQ	90	PRO	N-CD	-5.45	1.40	1.47
1	1n	1	PRO	N-CD	5.45	1.55	1.47
1	dY	131	LYS	CA-C	5.45	1.60	1.52
1	e0	99	PRO	C-N	5.45	1.41	1.33
1	1q	8	GLY	CA-C	-5.45	1.46	1.52
1	eq	84	HIS	CE1-NE2	5.45	1.38	1.32
1	eB	193	ASN	CA-CB	5.45	1.63	1.53
1	eM	190	LEU	CA-CB	5.45	1.61	1.53
1	eZ	190	LEU	N-CA	-5.45	1.39	1.46
1	fz	184	TRP	C-O	-5.45	1.17	1.24
1	fJ	117	TRP	CA-C	5.45	1.59	1.52
1	fP	131	LYS	C-O	-5.45	1.17	1.24
1	fR	194	ALA	CA-C	5.45	1.59	1.52
1	fV	63	GLN	C-N	5.45	1.41	1.33
1	g1	97	ARG	CA-C	-5.45	1.45	1.52
1	c	213	GLU	C-N	5.45	1.40	1.33
1	T	76	GLU	N-CA	-5.45	1.39	1.46
1	7	143	ARG	C-N	5.45	1.41	1.33
1	gT	82	ARG	CA-C	-5.45	1.45	1.52
1	hw	73	ILE	CA-CB	5.45	1.61	1.54
1	hC	121	ASN	CA-CB	5.45	1.59	1.53
1	ia	152	ASP	C-N	5.45	1.40	1.33
1	iO	123	PRO	C-N	5.45	1.39	1.33
1	iP	18	ARG	N-CA	-5.45	1.39	1.46
1	ja	100	ARG	CD-NE	5.45	1.53	1.46
1	k4	170	LYS	N-CA	-5.45	1.39	1.46
1	kv	184	TRP	NE1-CE2	-5.45	1.31	1.37
1	l6	84	HIS	C-N	5.45	1.40	1.33
1	ld	109	SER	CA-C	-5.45	1.45	1.52
1	2W	156	GLY	C-N	5.45	1.40	1.34
1	2Z	143	ARG	NE-CZ	5.45	1.39	1.33
1	3A	146	SER	CA-C	-5.45	1.46	1.53
1	4k	47	ALA	CA-CB	5.45	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4r	68	MET	CA-CB	5.45	1.61	1.53
1	4H	87	HIS	C-N	5.45	1.40	1.33
1	5a	100	ARG	CA-CB	5.45	1.62	1.53
1	5w	144	MET	N-CA	-5.45	1.39	1.46
1	6w	215	MET	CA-CB	5.45	1.63	1.53
1	7e	23	TRP	NE1-CE2	-5.45	1.31	1.37
1	8h	97	ARG	CA-C	5.45	1.59	1.52
1	8j	205	LEU	N-CA	5.45	1.53	1.46
1	8G	28	GLU	CA-CB	5.45	1.61	1.53
1	8S	89	GLY	CA-C	-5.45	1.44	1.51
1	a4	37	ILE	CA-C	5.45	1.57	1.52
1	ac	18	ARG	CA-C	5.45	1.59	1.52
1	ag	84	HIS	CE1-NE2	5.45	1.38	1.32
1	ay	51	ASP	CA-CB	5.45	1.61	1.53
1	aA	135	ILE	CA-CB	5.45	1.61	1.54
1	aD	92	GLU	N-CA	-5.45	1.38	1.46
1	14	41	SER	C-N	5.45	1.41	1.33
1	bN	195	ASN	CA-C	5.45	1.59	1.52
1	cC	123	PRO	N-CA	5.45	1.54	1.47
1	1g	94	GLY	C-N	5.45	1.40	1.33
1	d0	79	GLU	C-N	5.45	1.40	1.33
1	d2	134	ILE	CA-C	5.45	1.59	1.52
1	dt	229	ARG	CZ-NH1	-5.45	1.25	1.32
1	dM	148	THR	N-CA	-5.45	1.39	1.46
1	e4	148	THR	CA-CB	-5.45	1.44	1.53
1	es	24	VAL	C-O	-5.45	1.17	1.24
1	eV	2	ILE	C-N	5.45	1.41	1.33
1	r	220	GLY	N-CA	5.45	1.53	1.45
1	C	4	GLN	C-N	5.45	1.41	1.33
1	gd	216	THR	C-N	5.45	1.41	1.33
1	gl	9	GLN	CA-CB	5.45	1.61	1.53
1	go	15	ILE	N-CA	5.45	1.52	1.46
1	gW	186	THR	C-N	5.45	1.41	1.33
1	hk	181	VAL	CA-CB	5.45	1.62	1.54
1	hR	26	VAL	C-O	-5.45	1.17	1.24
1	hZ	166	ASP	CB-CG	-5.45	1.38	1.52
1	ib	55	MET	N-CA	-5.45	1.39	1.46
1	ib	57	ASN	C-N	5.45	1.41	1.33
1	ig	224	PRO	CA-CB	-5.45	1.46	1.53
1	1P	185	MET	C-O	-5.45	1.17	1.24
1	it	41	SER	CA-CB	5.45	1.61	1.53
1	it	85	PRO	C-N	5.45	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iy	95	GLN	CA-C	5.45	1.60	1.52
1	iy	179	GLN	CA-C	-5.45	1.45	1.52
1	iC	97	ARG	CZ-NH1	-5.45	1.25	1.32
1	1R	31	ALA	CA-C	5.45	1.60	1.52
1	1R	199	LYS	N-CA	5.45	1.52	1.46
1	iL	190	LEU	CA-CB	5.45	1.61	1.53
1	iS	86	VAL	N-CA	-5.45	1.39	1.46
1	iX	88	ALA	N-CA	-5.45	1.39	1.46
1	jb	138	LEU	CA-CB	5.45	1.61	1.53
1	jm	160	PRO	C-N	5.45	1.40	1.33
1	jr	169	TYR	CA-CB	5.45	1.62	1.53
1	jB	28	GLU	CA-CB	5.45	1.61	1.53
1	jC	179	GLN	N-CA	5.45	1.52	1.46
1	1Y	66	MET	C-N	5.45	1.41	1.33
1	jQ	162	ARG	CA-C	-5.45	1.45	1.52
1	kC	131	LYS	CA-C	-5.45	1.45	1.52
1	kQ	147	PRO	CA-CB	5.45	1.61	1.53
1	kS	100	ARG	CA-CB	5.45	1.62	1.53
1	lA	177	ALA	C-O	-5.45	1.17	1.24
1	lO	224	PRO	C-N	5.45	1.40	1.33
1	lP	114	GLN	N-CA	5.45	1.52	1.46
1	2p	88	ALA	C-N	5.45	1.41	1.33
1	2F	62	HIS	CB-CG	5.45	1.57	1.50
1	3r	89	GLY	C-N	5.45	1.40	1.33
1	3r	220	GLY	CA-C	5.45	1.59	1.51
1	3v	76	GLU	CA-C	-5.45	1.45	1.52
1	3w	226	HIS	CD2-NE2	-5.45	1.31	1.37
1	3Y	86	VAL	CA-C	-5.45	1.45	1.52
1	48	200	THR	C-N	-5.45	1.27	1.33
1	4c	55	MET	CA-C	5.45	1.59	1.52
1	4c	112	GLN	CA-CB	5.45	1.61	1.53
1	4h	76	GLU	C-N	5.45	1.40	1.33
1	4s	13	GLN	CA-C	5.45	1.59	1.52
1	4y	151	LEU	N-CA	-5.45	1.39	1.46
1	4P	5	ASN	CA-C	5.45	1.59	1.52
1	4Z	126	VAL	CA-CB	5.45	1.61	1.54
1	51	153	ILE	C-N	5.45	1.41	1.33
1	59	117	TRP	NE1-CE2	-5.45	1.31	1.37
1	5c	12	HIS	C-N	5.45	1.42	1.33
1	5m	50	GLN	CA-CB	5.45	1.61	1.53
1	5z	156	GLY	N-CA	-5.45	1.37	1.44
1	5B	28	GLU	CA-C	-5.45	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5M	164	TYR	CA-CB	5.45	1.61	1.53
1	69	51	ASP	CA-C	5.45	1.59	1.52
1	6c	195	ASN	CA-CB	5.45	1.61	1.53
1	6r	119	THR	CA-CB	5.45	1.62	1.53
1	6s	211	LEU	C-N	5.45	1.41	1.33
1	6B	126	VAL	N-CA	5.45	1.52	1.46
1	7k	52	LEU	C-N	5.45	1.41	1.33
1	7o	114	GLN	N-CA	5.45	1.52	1.46
1	7u	226	HIS	CG-ND1	-5.45	1.32	1.38
1	87	187	GLU	N-CA	-5.45	1.39	1.46
1	8d	213	GLU	N-CA	5.45	1.52	1.46
1	8E	199	LYS	N-CA	5.45	1.53	1.46
1	8M	62	HIS	CE1-NE2	5.45	1.38	1.32
1	91	112	GLN	C-N	5.45	1.40	1.33
1	96	11	VAL	N-CA	-5.45	1.39	1.46
1	9v	83	LEU	CB-CG	5.45	1.64	1.53
1	9F	102	SER	N-CA	-5.45	1.39	1.46
1	9X	30	LYS	N-CA	-5.45	1.39	1.46
1	af	140	LYS	CA-C	-5.45	1.45	1.52
1	aI	70	LYS	CA-CB	5.45	1.61	1.53
1	aO	229	ARG	C-N	5.45	1.39	1.34
1	b9	189	LEU	CA-CB	5.45	1.62	1.53
1	be	170	LYS	CA-C	-5.45	1.45	1.52
1	bv	73	ILE	CA-CB	5.45	1.61	1.54
1	bx	187	GLU	N-CA	5.45	1.53	1.46
1	bB	26	VAL	C-N	5.45	1.40	1.33
1	bL	76	GLU	N-CA	5.45	1.52	1.46
1	bN	27	VAL	CA-C	5.45	1.59	1.52
1	bS	48	THR	CA-C	5.45	1.60	1.52
1	c5	230	VAL	CA-C	5.45	1.59	1.52
1	c7	64	ALA	C-N	5.45	1.41	1.34
1	cf	100	ARG	CD-NE	5.45	1.53	1.46
1	ci	146	SER	CA-CB	5.45	1.62	1.53
1	cp	148	THR	C-N	5.45	1.42	1.33
1	d0	228	ALA	N-CA	-5.45	1.39	1.46
1	dd	124	ILE	N-CA	5.45	1.50	1.46
1	dj	140	LYS	CA-CB	5.45	1.61	1.53
1	dI	121	ASN	CA-CB	5.45	1.60	1.53
1	dZ	49	PRO	C-N	5.45	1.41	1.33
1	eg	106	GLY	C-N	-5.45	1.26	1.33
1	en	161	PHE	N-CA	-5.45	1.39	1.46
1	et	17	PRO	CA-C	5.45	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	et	173	ARG	N-CA	5.45	1.52	1.46
1	1s	201	ILE	CA-CB	5.45	1.61	1.54
1	eK	85	PRO	CA-C	-5.45	1.44	1.52
1	eO	7	GLN	CA-C	5.45	1.59	1.52
1	eO	164	TYR	C-N	5.45	1.40	1.33
1	fi	226	HIS	C-N	5.45	1.41	1.34
1	1x	90	PRO	N-CD	5.45	1.55	1.47
1	fu	214	MET	C-N	5.45	1.41	1.34
1	fA	222	GLY	N-CA	5.45	1.53	1.45
1	fB	146	SER	CA-C	5.45	1.59	1.52
1	fH	188	THR	CA-C	5.45	1.60	1.52
1	fO	96	MET	C-N	5.45	1.40	1.33
1	fP	90	PRO	C-O	-5.45	1.16	1.24
1	fV	56	LEU	CA-CB	5.45	1.62	1.53
1	2	13	GLN	C-O	5.45	1.30	1.24
1	v	129	ILE	CA-C	-5.45	1.46	1.52
1	X	159	GLU	CA-CB	5.45	1.62	1.53
1	gb	140	LYS	CA-CB	5.45	1.61	1.53
1	gj	218	CYS	CA-CB	5.45	1.60	1.53
1	gm	8	GLY	C-N	5.45	1.40	1.33
1	gr	231	LEU	CA-CB	5.45	1.64	1.53
1	gu	229	ARG	CA-C	-5.45	1.46	1.52
1	gA	12	HIS	CE1-NE2	5.45	1.38	1.32
1	gG	130	TYR	CA-CB	5.45	1.62	1.53
1	hj	158	LYS	CA-C	-5.45	1.47	1.53
1	hn	93	PRO	CA-C	5.45	1.60	1.52
1	hS	82	ARG	CD-NE	5.45	1.53	1.46
1	j1	40	PHE	C-N	5.45	1.41	1.33
1	jB	90	PRO	C-N	5.45	1.40	1.33
1	jO	36	VAL	N-CA	5.45	1.53	1.46
1	km	83	LEU	CA-C	5.45	1.60	1.52
1	kw	190	LEU	N-CA	5.45	1.52	1.46
1	kI	172	LEU	N-CA	-5.45	1.39	1.46
1	kK	192	GLN	CA-CB	5.45	1.61	1.53
1	kT	5	ASN	CA-CB	5.45	1.62	1.53
1	kU	215	MET	C-N	5.45	1.42	1.33
1	kU	227	LYS	N-CA	-5.45	1.38	1.45
1	l2	189	LEU	CA-C	-5.45	1.45	1.52
1	lh	185	MET	CA-C	5.45	1.59	1.52
1	lj	194	ALA	C-N	5.45	1.41	1.33
1	lM	2	ILE	CA-C	5.45	1.58	1.52
1	2j	84	HIS	CD2-NE2	5.45	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2n	94	GLY	CA-C	5.45	1.59	1.51
1	2y	188	THR	C-N	5.45	1.40	1.33
1	2D	91	ILE	CA-CB	5.45	1.59	1.54
1	2E	44	SER	CA-CB	5.45	1.63	1.53
1	37	168	PHE	CA-C	5.45	1.59	1.52
1	3G	43	LEU	C-N	5.45	1.41	1.33
1	3K	97	ARG	NE-CZ	5.45	1.39	1.33
1	3R	184	TRP	CA-C	-5.45	1.45	1.52
1	42	120	HIS	CG-CD2	-5.45	1.29	1.35
1	44	18	ARG	N-CA	-5.45	1.39	1.46
1	49	149	SER	CA-C	5.45	1.59	1.52
1	4a	24	VAL	N-CA	-5.45	1.39	1.46
1	4k	103	ASP	CA-CB	5.45	1.61	1.53
1	4r	172	LEU	CA-CB	5.45	1.61	1.53
1	4C	10	MET	C-N	5.45	1.40	1.33
1	5i	81	ASP	CA-CB	5.45	1.61	1.53
1	5i	196	PRO	N-CD	5.45	1.55	1.47
1	5m	34	PRO	C-N	5.45	1.41	1.33
1	5n	117	TRP	CZ2-CH2	5.45	1.47	1.37
1	5q	140	LYS	N-CA	5.45	1.52	1.46
1	5Q	69	LEU	C-N	5.45	1.41	1.33
1	6j	74	ASN	C-N	5.45	1.41	1.33
1	6U	52	LEU	N-CA	-5.45	1.39	1.46
1	6Z	54	THR	CA-C	5.45	1.59	1.52
1	83	212	GLU	CA-C	-5.45	1.45	1.52
1	8s	162	ARG	NE-CZ	-5.45	1.27	1.33
1	8t	8	GLY	N-CA	5.45	1.53	1.45
1	8U	20	LEU	CB-CG	5.45	1.64	1.53
1	97	214	MET	CA-C	5.45	1.60	1.52
1	9t	117	TRP	CA-C	5.45	1.59	1.52
1	Y	6	LEU	CA-C	-5.45	1.45	1.52
1	a7	31	ALA	N-CA	5.45	1.53	1.46
1	ac	153	ILE	CA-C	-5.45	1.46	1.52
1	ar	138	LEU	CA-CB	5.45	1.61	1.53
1	12	119	THR	CA-C	5.45	1.60	1.52
1	13	169	TYR	CA-CB	5.45	1.61	1.53
1	aT	62	HIS	CE1-NE2	5.45	1.38	1.32
1	bd	87	HIS	CG-ND1	5.45	1.44	1.38
1	bn	100	ARG	CD-NE	5.45	1.53	1.46
1	bp	167	ARG	CA-CB	5.45	1.61	1.53
1	bv	213	GLU	N-CA	-5.45	1.39	1.46
1	bw	149	SER	C-N	-5.45	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bP	67	GLN	CA-C	5.45	1.59	1.52
1	c6	189	LEU	N-CA	5.45	1.52	1.46
1	c7	103	ASP	CA-C	-5.45	1.45	1.52
1	cb	44	SER	N-CA	5.45	1.52	1.46
1	1d	99	PRO	C-N	5.45	1.41	1.33
1	cJ	48	THR	C-N	-5.45	1.26	1.33
1	cQ	120	HIS	CA-C	5.45	1.60	1.52
1	d9	190	LEU	N-CA	-5.45	1.39	1.46
1	db	229	ARG	CA-C	5.45	1.59	1.52
1	di	118	MET	C-O	-5.45	1.17	1.24
1	do	216	THR	N-CA	5.45	1.53	1.46
1	dP	82	ARG	CD-NE	5.45	1.53	1.46
1	dX	186	THR	CA-CB	5.45	1.61	1.53
1	dZ	154	ARG	CD-NE	5.45	1.53	1.46
1	e7	62	HIS	CG-ND1	-5.45	1.32	1.38
1	el	77	ALA	C-N	5.45	1.40	1.33
1	eS	82	ARG	CA-C	5.45	1.59	1.52
1	eT	164	TYR	CA-C	5.45	1.59	1.52
1	fb	181	VAL	CA-C	5.45	1.59	1.52
1	fh	144	MET	C-N	5.45	1.41	1.33
1	fx	8	GLY	N-CA	5.45	1.52	1.45
1	fC	8	GLY	N-CA	5.45	1.53	1.45
1	fF	7	GLN	CA-C	-5.45	1.46	1.53
1	fW	144	MET	N-CA	-5.45	1.39	1.46
1	a	35	GLU	C-N	5.45	1.40	1.33
1	gY	50	GLN	N-CA	5.45	1.52	1.46
1	h3	197	ASP	C-N	5.45	1.41	1.33
1	hI	79	GLU	CA-C	5.45	1.59	1.52
1	i2	174	ALA	N-CA	-5.45	1.39	1.46
1	iE	140	LYS	CA-CB	5.45	1.61	1.53
1	j2	24	VAL	N-CA	5.45	1.53	1.46
1	j4	19	THR	N-CA	5.45	1.53	1.46
1	1X	60	GLY	N-CA	5.45	1.53	1.45
1	kN	162	ARG	C-N	5.45	1.41	1.33
1	kR	39	MET	N-CA	-5.45	1.39	1.46
1	l6	139	ASN	CA-C	5.45	1.60	1.52
1	lQ	201	ILE	CA-CB	-5.45	1.47	1.54
1	2e	141	ILE	CA-CB	-5.45	1.48	1.54
1	2e	181	VAL	N-CA	-5.45	1.39	1.46
1	3B	59	VAL	N-CA	5.45	1.52	1.46
1	3W	22	ALA	C-N	-5.45	1.26	1.33
1	4r	115	ILE	N-CA	-5.45	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5j	167	ARG	NE-CZ	-5.45	1.27	1.33
1	5Q	135	ILE	C-O	-5.45	1.17	1.24
1	6f	76	GLU	C-O	-5.45	1.17	1.24
1	75	3	VAL	CA-C	-5.45	1.46	1.52
1	7a	155	GLN	N-CA	5.45	1.53	1.46
1	7k	100	ARG	CA-C	5.45	1.60	1.53
1	7o	24	VAL	C-N	5.45	1.40	1.33
1	89	177	ALA	N-CA	-5.45	1.39	1.46
1	9K	60	GLY	N-CA	5.45	1.53	1.45
1	9T	145	TYR	CA-C	-5.45	1.45	1.52
1	al	181	VAL	N-CA	-5.45	1.39	1.46
1	aD	185	MET	CA-C	-5.45	1.45	1.52
1	16	33	SER	N-CA	5.45	1.51	1.46
1	bk	11	VAL	CA-C	-5.45	1.45	1.52
1	bq	167	ARG	C-N	5.45	1.40	1.33
1	c0	158	LYS	N-CA	-5.45	1.40	1.46
1	c6	136	LEU	CA-C	5.45	1.59	1.52
1	cJ	230	VAL	CA-CB	5.45	1.62	1.54
1	cN	166	ASP	C-N	5.45	1.41	1.34
1	d8	77	ALA	CA-CB	5.45	1.61	1.53
1	dQ	110	THR	CA-C	5.45	1.59	1.52
1	ek	120	HIS	ND1-CE1	5.45	1.38	1.32
1	eu	98	GLU	CA-CB	5.45	1.63	1.53
1	ex	228	ALA	N-CA	-5.45	1.39	1.46
1	fn	67	GLN	CA-C	5.45	1.59	1.52
1	fx	98	GLU	CA-CB	5.45	1.62	1.53
1	i	164	TYR	N-CA	-5.45	1.39	1.46
1	gc	12	HIS	CB-CG	5.45	1.57	1.50
1	gl	25	LYS	CA-CB	5.45	1.61	1.53
1	gy	37	ILE	CA-CB	5.45	1.61	1.54
1	1F	213	GLU	N-CA	-5.45	1.40	1.46
1	h2	104	ILE	C-O	-5.45	1.18	1.24
1	hf	103	ASP	C-N	5.45	1.40	1.33
1	hs	82	ARG	N-CA	5.45	1.52	1.46
1	1K	189	LEU	CA-C	5.45	1.60	1.52
1	hT	40	PHE	CA-C	5.45	1.60	1.52
1	hY	173	ARG	CD-NE	5.45	1.53	1.46
1	i0	84	HIS	CA-CB	5.45	1.60	1.53
1	i5	19	THR	CA-C	5.45	1.59	1.52
1	il	90	PRO	CA-C	5.45	1.59	1.52
1	iz	56	LEU	CA-C	5.45	1.59	1.52
1	iD	56	LEU	CA-C	5.45	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jb	41	SER	N-CA	5.45	1.52	1.46
1	jb	87	HIS	N-CA	-5.45	1.39	1.46
1	ji	3	VAL	CA-C	-5.45	1.46	1.52
1	jD	84	HIS	CD2-NE2	5.45	1.43	1.37
1	jD	204	ALA	CA-C	5.45	1.59	1.52
1	jG	16	SER	C-N	-5.45	1.26	1.34
1	jO	136	LEU	CB-CG	5.45	1.64	1.53
1	1Y	77	ALA	N-CA	5.45	1.52	1.46
1	k3	39	MET	CA-CB	5.45	1.61	1.53
1	ku	155	GLN	CA-CB	5.45	1.62	1.53
1	kV	31	ALA	C-N	-5.45	1.26	1.33
1	kW	169	TYR	N-CA	5.45	1.53	1.46
1	l2	64	ALA	C-N	5.45	1.41	1.33
1	lf	139	ASN	N-CA	-5.45	1.39	1.46
1	lh	130	TYR	C-N	5.45	1.41	1.33
1	ln	158	LYS	CA-C	5.45	1.59	1.53
1	2h	57	ASN	CA-CB	5.45	1.62	1.53
1	2B	204	ALA	CA-C	5.45	1.59	1.52
1	2M	32	PHE	N-CA	5.45	1.53	1.46
1	2O	180	GLU	C-N	5.45	1.40	1.33
1	2Y	189	LEU	CA-CB	5.45	1.62	1.54
1	3e	74	ASN	C-N	5.45	1.40	1.33
1	3l	37	ILE	CA-CB	5.45	1.57	1.53
1	3w	51	ASP	C-O	-5.45	1.17	1.24
1	3E	117	TRP	CA-CB	5.45	1.61	1.53
1	3O	132	ARG	CD-NE	5.45	1.53	1.46
1	3V	172	LEU	C-N	5.45	1.42	1.33
1	4d	188	THR	C-N	5.45	1.41	1.34
1	4i	149	SER	C-N	5.45	1.40	1.34
1	4x	132	ARG	CA-C	-5.45	1.46	1.52
1	4y	58	THR	CA-CB	-5.45	1.44	1.53
1	4G	45	GLU	C-N	5.45	1.41	1.33
1	59	170	LYS	C-N	5.45	1.41	1.33
1	5f	223	GLY	CA-C	-5.45	1.44	1.51
1	5J	15	ILE	CA-C	5.45	1.58	1.52
1	5Q	24	VAL	CA-CB	5.45	1.60	1.54
1	5Y	33	SER	C-N	-5.45	1.27	1.33
1	6j	100	ARG	CD-NE	5.45	1.53	1.46
1	6q	121	ASN	CA-CB	5.45	1.59	1.53
1	6r	129	ILE	CA-CB	-5.45	1.47	1.54
1	6t	95	GLN	N-CA	-5.45	1.39	1.45
1	6t	226	HIS	CG-CD2	-5.45	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6M	134	ILE	CA-C	-5.45	1.46	1.52
1	6U	119	THR	CA-C	5.45	1.60	1.52
1	7n	68	MET	CA-C	5.45	1.60	1.52
1	7W	65	ALA	N-CA	5.45	1.53	1.46
1	80	226	HIS	CA-C	5.45	1.59	1.52
1	86	172	LEU	CA-CB	5.45	1.61	1.53
1	8g	150	ILE	N-CA	-5.45	1.39	1.46
1	8O	153	ILE	C-O	-5.45	1.18	1.24
1	91	154	ARG	CA-C	5.45	1.60	1.52
1	92	43	LEU	N-CA	-5.45	1.39	1.46
1	95	82	ARG	CA-CB	5.45	1.61	1.53
1	a7	216	THR	CB-OG1	5.45	1.52	1.43
1	11	127	GLY	C-N	-5.45	1.26	1.33
1	ay	10	MET	CA-C	5.45	1.60	1.53
1	ay	173	ARG	CZ-NH2	-5.45	1.26	1.33
1	aJ	97	ARG	CD-NE	5.45	1.53	1.46
1	aJ	152	ASP	C-O	-5.45	1.17	1.24
1	aK	217	ALA	C-N	5.45	1.41	1.33
1	b0	160	PRO	CA-C	5.45	1.59	1.52
1	b8	19	THR	CA-CB	5.45	1.62	1.53
1	bf	200	THR	C-N	5.45	1.40	1.33
1	bg	136	LEU	N-CA	-5.45	1.39	1.46
1	bT	25	LYS	C-N	5.45	1.40	1.33
1	cz	185	MET	CA-C	-5.45	1.45	1.52
1	1j	92	GLU	CA-CB	5.45	1.61	1.53
1	dm	97	ARG	CA-CB	5.45	1.62	1.53
1	du	104	ILE	C-N	5.45	1.41	1.33
1	dF	109	SER	C-O	-5.45	1.17	1.23
1	dP	112	GLN	C-O	-5.45	1.17	1.24
1	dQ	45	GLU	CA-CB	5.45	1.62	1.53
1	e8	108	THR	C-N	5.45	1.41	1.33
1	ev	161	PHE	CA-C	-5.45	1.45	1.52
1	eK	162	ARG	C-N	5.45	1.41	1.33
1	eW	15	ILE	CA-CB	5.45	1.59	1.54
1	f2	134	ILE	CA-C	5.45	1.59	1.52
1	fw	84	HIS	CE1-NE2	-5.45	1.27	1.32
1	fC	12	HIS	CB-CG	5.45	1.57	1.50
1	fY	57	ASN	CA-C	-5.45	1.45	1.52
1	g6	125	PRO	CA-CB	5.45	1.60	1.53
1	d	202	LEU	CB-CG	5.45	1.64	1.53
1	e	29	GLU	N-CA	5.45	1.53	1.46
1	u	91	ILE	C-N	5.45	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	u	95	GLN	N-CA	5.45	1.52	1.45
1	z	38	PRO	C-N	5.45	1.41	1.33
1	J	226	HIS	C-O	-5.45	1.17	1.24
1	4	166	ASP	C-O	-5.45	1.17	1.24
1	O	178	SER	N-CA	5.45	1.52	1.45
1	hD	227	LYS	N-CA	5.44	1.52	1.45
1	hS	20	LEU	C-N	5.44	1.40	1.33
1	iL	80	TRP	CA-C	5.44	1.60	1.52
1	j2	153	ILE	CA-C	5.44	1.59	1.52
1	j8	69	LEU	CA-CB	5.44	1.61	1.53
1	jb	154	ARG	CD-NE	5.44	1.53	1.46
1	1V	36	VAL	C-N	5.44	1.39	1.33
1	kf	133	TRP	C-N	5.44	1.40	1.33
1	kz	138	LEU	CA-CB	5.44	1.61	1.53
1	kN	100	ARG	CD-NE	5.44	1.53	1.46
1	l6	24	VAL	CA-C	-5.44	1.46	1.52
1	lg	125	PRO	CA-CB	5.44	1.60	1.53
1	27	5	ASN	CA-C	5.44	1.59	1.52
1	lz	64	ALA	N-CA	-5.44	1.39	1.46
1	2f	79	GLU	C-N	5.44	1.41	1.34
1	2x	68	MET	CA-CB	5.44	1.61	1.53
1	2L	117	TRP	CA-CB	5.44	1.61	1.53
1	2V	176	GLN	CA-C	-5.44	1.45	1.52
1	35	67	GLN	CA-C	5.44	1.59	1.52
1	37	120	HIS	CA-CB	5.44	1.62	1.53
1	3b	143	ARG	CD-NE	5.44	1.53	1.46
1	3K	61	GLY	CA-C	5.44	1.59	1.51
1	4v	35	GLU	C-O	5.44	1.30	1.24
1	50	43	LEU	CA-CB	5.44	1.62	1.53
1	5f	84	HIS	ND1-CE1	5.44	1.38	1.32
1	5o	74	ASN	CA-CB	5.44	1.61	1.53
1	5N	52	LEU	N-CA	-5.44	1.40	1.46
1	5P	84	HIS	CB-CG	5.44	1.57	1.50
1	65	37	ILE	C-N	5.44	1.40	1.34
1	6B	133	TRP	CA-C	-5.44	1.45	1.52
1	6D	86	VAL	CA-C	-5.44	1.47	1.52
1	6Z	84	HIS	CA-CB	5.44	1.60	1.53
1	92	183	ASN	CA-CB	5.44	1.61	1.53
1	9t	43	LEU	CA-C	-5.44	1.45	1.52
1	9O	108	THR	CA-C	-5.44	1.46	1.52
1	af	212	GLU	C-N	5.44	1.40	1.33
1	aT	212	GLU	N-CA	-5.44	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aW	205	LEU	C-N	5.44	1.41	1.33
1	bi	184	TRP	N-CA	-5.44	1.40	1.46
1	bq	162	ARG	NE-CZ	-5.44	1.27	1.33
1	cG	231	LEU	CA-C	5.44	1.64	1.52
1	d9	215	MET	CA-CB	5.44	1.62	1.53
1	db	184	TRP	CA-CB	5.44	1.61	1.53
1	dV	126	VAL	CA-CB	-5.44	1.47	1.54
1	e9	170	LYS	CA-CB	5.44	1.61	1.53
1	ek	9	GLN	CA-CB	5.44	1.61	1.53
1	eJ	19	THR	C-N	5.44	1.40	1.33
1	eT	41	SER	CA-C	-5.44	1.46	1.52
1	eU	138	LEU	C-N	5.44	1.41	1.33
1	fa	191	VAL	CA-C	5.44	1.59	1.52
1	fg	65	ALA	CA-C	-5.44	1.45	1.52
1	fh	197	ASP	N-CA	5.44	1.52	1.46
1	fS	82	ARG	CD-NE	5.44	1.53	1.46
1	fW	37	ILE	CA-C	5.44	1.57	1.52
1	a	3	VAL	CA-CB	5.44	1.62	1.54
1	o	46	GLY	C-N	5.44	1.41	1.33
1	S	21	ASN	CA-CB	5.44	1.61	1.53
1	U	62	HIS	CB-CG	5.44	1.57	1.50
1	gr	133	TRP	NE1-CE2	-5.44	1.31	1.37
1	gA	22	ALA	N-CA	-5.44	1.39	1.46
1	gT	5	ASN	N-CA	5.44	1.53	1.46
1	h3	96	MET	C-N	5.44	1.40	1.33
1	hb	177	ALA	CA-C	5.44	1.59	1.52
1	1I	229	ARG	CZ-NH1	-5.44	1.25	1.32
1	1K	120	HIS	ND1-CE1	5.44	1.38	1.32
1	1K	130	TYR	CA-C	-5.44	1.46	1.52
1	hG	82	ARG	NE-CZ	5.44	1.39	1.33
1	hS	157	PRO	CA-C	-5.44	1.44	1.52
1	hW	140	LYS	CA-C	5.44	1.60	1.52
1	hZ	169	TYR	N-CA	-5.44	1.39	1.46
1	i2	81	ASP	CA-CB	5.44	1.61	1.53
1	ih	200	THR	C-N	5.44	1.40	1.33
1	ir	76	GLU	N-CA	-5.44	1.39	1.46
1	ir	89	GLY	N-CA	5.44	1.52	1.44
1	ix	3	VAL	CA-C	-5.44	1.46	1.52
1	iT	66	MET	CA-C	5.44	1.59	1.52
1	iU	121	ASN	C-O	-5.44	1.20	1.25
1	ji	118	MET	CA-CB	5.44	1.63	1.53
1	jj	21	ASN	CA-CB	5.44	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1W	128	GLU	CA-CB	5.44	1.61	1.53
1	jy	114	GLN	C-N	5.44	1.40	1.34
1	jO	228	ALA	CA-C	5.44	1.59	1.52
1	k9	208	ALA	N-CA	-5.44	1.39	1.46
1	kE	231	LEU	CA-CB	5.44	1.64	1.53
1	kO	33	SER	N-CA	-5.44	1.38	1.46
1	kR	162	ARG	N-CA	5.44	1.53	1.46
1	le	167	ARG	CA-CB	5.44	1.61	1.53
1	27	22	ALA	C-N	-5.44	1.26	1.33
1	lF	136	LEU	C-N	5.44	1.40	1.34
1	lN	42	ALA	C-N	5.44	1.41	1.34
1	lO	30	LYS	N-CA	-5.44	1.38	1.46
1	2D	47	ALA	N-CA	-5.44	1.39	1.46
1	2J	94	GLY	C-N	5.44	1.41	1.33
1	2Z	113	GLU	CA-CB	5.44	1.62	1.53
1	3E	71	GLU	C-N	5.44	1.41	1.33
1	3V	136	LEU	N-CA	-5.44	1.39	1.46
1	4j	22	ALA	CA-C	5.44	1.59	1.52
1	4s	153	ILE	N-CA	5.44	1.52	1.46
1	4y	137	GLY	CA-C	-5.44	1.46	1.52
1	4H	18	ARG	C-N	5.44	1.41	1.33
1	58	134	ILE	CA-C	-5.44	1.45	1.52
1	59	185	MET	C-O	-5.44	1.17	1.24
1	5b	198	CYS	C-N	5.44	1.41	1.33
1	5i	123	PRO	C-N	5.44	1.38	1.33
1	5s	173	ARG	N-CA	5.44	1.53	1.46
1	5v	184	TRP	CA-CB	5.44	1.61	1.53
1	5C	103	ASP	CA-CB	5.44	1.63	1.53
1	5D	88	ALA	CA-CB	5.44	1.62	1.53
1	5J	81	ASP	CA-C	5.44	1.60	1.52
1	5R	126	VAL	CA-CB	5.44	1.61	1.54
1	5U	16	SER	CA-C	5.44	1.58	1.52
1	5Y	8	GLY	N-CA	5.44	1.52	1.45
1	67	100	ARG	CA-C	-5.44	1.45	1.53
1	6c	23	TRP	CA-CB	5.44	1.61	1.53
1	6n	90	PRO	N-CA	5.44	1.53	1.47
1	6J	150	ILE	CA-C	5.44	1.59	1.52
1	6V	156	GLY	N-CA	5.44	1.52	1.44
1	6W	60	GLY	C-N	5.44	1.40	1.33
1	74	42	ALA	C-N	5.44	1.41	1.33
1	7G	47	ALA	N-CA	-5.44	1.39	1.46
1	7U	204	ALA	C-N	5.44	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	83	106	GLY	C-N	5.44	1.41	1.33
1	88	147	PRO	C-N	5.44	1.40	1.33
1	8b	218	CYS	CA-C	5.44	1.60	1.52
1	8i	142	VAL	CA-C	5.44	1.59	1.52
1	8v	184	TRP	CA-CB	5.44	1.61	1.53
1	8y	80	TRP	CA-C	5.44	1.60	1.52
1	8L	138	LEU	CA-CB	5.44	1.61	1.53
1	96	13	GLN	N-CA	5.44	1.52	1.45
1	9w	15	ILE	CA-CB	-5.44	1.48	1.54
1	9M	144	MET	C-O	-5.44	1.17	1.24
1	a2	211	LEU	N-CA	-5.44	1.39	1.46
1	a4	6	LEU	CA-CB	5.44	1.61	1.54
1	as	12	HIS	ND1-CE1	5.44	1.38	1.32
1	aD	137	GLY	C-N	5.44	1.41	1.33
1	aE	149	SER	CA-CB	5.44	1.62	1.53
1	b1	71	GLU	C-O	-5.44	1.17	1.24
1	16	168	PHE	N-CA	-5.44	1.39	1.46
1	bn	142	VAL	N-CA	5.44	1.53	1.46
1	bx	99	PRO	C-N	5.44	1.40	1.33
1	bN	59	VAL	CA-CB	5.44	1.60	1.53
1	bN	64	ALA	N-CA	5.44	1.53	1.46
1	cu	221	VAL	CA-CB	5.44	1.60	1.54
1	cy	202	LEU	CA-C	-5.44	1.45	1.52
1	cF	98	GLU	CA-CB	5.44	1.63	1.53
1	d0	150	ILE	CA-C	5.44	1.59	1.52
1	d4	54	THR	N-CA	-5.44	1.40	1.46
1	dd	115	ILE	CA-C	5.44	1.59	1.52
1	dB	78	ALA	CA-C	-5.44	1.45	1.52
1	dD	27	VAL	CA-CB	-5.44	1.48	1.54
1	dE	102	SER	C-N	5.44	1.41	1.33
1	dP	6	LEU	CA-C	-5.44	1.46	1.52
1	dR	223	GLY	C-N	5.44	1.40	1.33
1	1o	136	LEU	N-CA	-5.44	1.39	1.46
1	eG	102	SER	N-CA	-5.44	1.39	1.46
1	fc	137	GLY	C-N	5.44	1.41	1.33
1	fw	229	ARG	CA-C	5.44	1.60	1.53
1	fx	70	LYS	CA-CB	5.44	1.61	1.53
1	fM	171	THR	CA-C	5.44	1.59	1.52
1	n	220	GLY	C-N	5.44	1.40	1.33
1	3	37	ILE	C-O	-5.44	1.20	1.24
1	I	162	ARG	C-N	5.44	1.41	1.33
1	4	44	SER	N-CA	5.44	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	133	TRP	C-N	5.44	1.40	1.33
1	gl	145	TYR	C-N	5.44	1.41	1.33
1	gq	221	VAL	C-N	5.44	1.40	1.33
1	gv	181	VAL	CA-CB	-5.44	1.47	1.54
1	hA	172	LEU	CA-C	5.44	1.60	1.52
1	1L	135	ILE	C-N	5.44	1.40	1.33
1	1N	101	GLY	C-N	5.44	1.42	1.33
1	id	65	ALA	CA-CB	5.44	1.62	1.53
1	il	164	TYR	CA-CB	5.44	1.61	1.53
1	iU	26	VAL	CA-C	-5.44	1.46	1.52
1	j3	126	VAL	N-CA	5.44	1.52	1.46
1	j8	41	SER	CA-CB	5.44	1.61	1.53
1	1X	81	ASP	CA-C	-5.44	1.45	1.52
1	jM	50	GLN	CA-C	5.44	1.59	1.52
1	jV	38	PRO	C-N	5.44	1.41	1.34
1	jW	133	TRP	NE1-CE2	5.44	1.43	1.37
1	ko	152	ASP	CA-CB	5.44	1.62	1.54
1	kv	157	PRO	C-N	-5.44	1.26	1.33
1	kM	229	ARG	CD-NE	5.44	1.53	1.46
1	kO	164	TYR	C-N	5.44	1.40	1.33
1	lh	22	ALA	CA-CB	5.44	1.61	1.53
1	28	50	GLN	CA-C	-5.44	1.45	1.52
1	lt	39	MET	SD-CE	5.44	1.93	1.79
1	lu	133	TRP	NE1-CE2	-5.44	1.31	1.37
1	lC	226	HIS	ND1-CE1	5.44	1.38	1.32
1	lK	14	ALA	C-N	5.44	1.40	1.33
1	lR	23	TRP	CA-C	5.44	1.59	1.52
1	2d	82	ARG	CA-C	5.44	1.60	1.52
1	2w	31	ALA	CA-CB	5.44	1.62	1.53
1	2A	51	ASP	N-CA	-5.44	1.39	1.46
1	2G	188	THR	CA-C	-5.44	1.49	1.52
1	2Q	123	PRO	CA-C	-5.44	1.45	1.52
1	3l	211	LEU	N-CA	-5.44	1.39	1.46
1	3S	68	MET	CA-CB	5.44	1.62	1.53
1	4f	19	THR	CA-C	-5.44	1.46	1.52
1	4t	87	HIS	ND1-CE1	5.44	1.38	1.32
1	4y	230	VAL	CA-CB	5.44	1.60	1.54
1	4A	95	GLN	CA-CB	5.44	1.63	1.53
1	4C	167	ARG	CA-CB	5.44	1.61	1.53
1	4D	173	ARG	C-N	5.44	1.40	1.33
1	4F	149	SER	C-N	5.44	1.40	1.34
1	5h	131	LYS	CA-C	-5.44	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5m	1	PRO	N-CA	5.44	1.55	1.47
1	5B	143	ARG	CD-NE	5.44	1.53	1.46
1	5L	17	PRO	N-CA	5.44	1.54	1.47
1	5S	128	GLU	C-N	5.44	1.40	1.33
1	66	100	ARG	CD-NE	5.44	1.53	1.46
1	6l	76	GLU	CA-C	5.44	1.60	1.52
1	6l	131	LYS	C-N	-5.44	1.26	1.33
1	6p	101	GLY	C-O	-5.44	1.17	1.23
1	6D	184	TRP	CA-C	5.44	1.59	1.52
1	6H	71	GLU	CA-C	-5.44	1.46	1.52
1	6X	84	HIS	ND1-CE1	5.44	1.38	1.32
1	71	167	ARG	CD-NE	5.44	1.53	1.46
1	7h	190	LEU	N-CA	-5.44	1.39	1.46
1	7A	224	PRO	N-CA	5.44	1.53	1.46
1	7E	192	GLN	C-N	5.44	1.40	1.33
1	8d	230	VAL	CA-CB	-5.44	1.47	1.54
1	8j	164	TYR	CA-C	-5.44	1.45	1.52
1	8u	34	PRO	C-O	-5.44	1.16	1.24
1	8v	131	LYS	C-N	5.44	1.41	1.33
1	9l	31	ALA	C-O	-5.44	1.19	1.24
1	Y	131	LYS	CA-C	-5.44	1.46	1.52
1	9X	167	ARG	CD-NE	5.44	1.53	1.46
1	9X	226	HIS	CA-C	5.44	1.59	1.52
1	ah	132	ARG	CA-CB	5.44	1.61	1.53
1	al	227	LYS	C-N	5.44	1.41	1.33
1	aE	79	GLU	CA-CB	5.44	1.62	1.53
1	aU	108	THR	CA-C	-5.44	1.45	1.52
1	ba	127	GLY	C-N	-5.44	1.27	1.33
1	bn	1	PRO	N-CD	5.44	1.55	1.47
1	bT	226	HIS	N-CA	-5.44	1.39	1.45
1	ck	1	PRO	N-CD	5.44	1.55	1.47
1	ct	13	GLN	C-N	5.44	1.41	1.33
1	cC	43	LEU	C-N	-5.44	1.26	1.33
1	d1	117	TRP	C-O	-5.44	1.17	1.24
1	dt	161	PHE	CA-CB	5.44	1.62	1.53
1	e0	130	TYR	C-N	5.44	1.41	1.34
1	e0	194	ALA	CA-C	5.44	1.60	1.53
1	eb	224	PRO	CA-CB	-5.44	1.46	1.53
1	er	50	GLN	N-CA	-5.44	1.39	1.46
1	1r	19	THR	CA-C	-5.44	1.46	1.52
1	eP	211	LEU	CA-CB	-5.44	1.44	1.53
1	f6	132	ARG	CA-C	5.44	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ft	162	ARG	CD-NE	5.44	1.53	1.46
1	fG	223	GLY	CA-C	-5.44	1.44	1.51
1	fK	35	GLU	C-N	5.44	1.40	1.33
1	fN	57	ASN	CA-C	5.44	1.60	1.52
1	g6	208	ALA	N-CA	-5.44	1.40	1.46
1	f	184	TRP	C-O	-5.44	1.17	1.24
1	i	62	HIS	C-N	5.44	1.41	1.33
1	2	90	PRO	CA-C	5.44	1.60	1.52
1	T	133	TRP	CZ2-CH2	5.44	1.47	1.37
1	X	189	LEU	C-O	-5.44	1.17	1.24
1	gE	117	TRP	CZ2-CH2	5.44	1.47	1.37
1	gJ	50	GLN	CA-CB	5.44	1.61	1.53
1	he	106	GLY	C-O	-5.44	1.18	1.24
1	1K	37	ILE	C-O	-5.44	1.17	1.24
1	hL	55	MET	C-N	5.44	1.40	1.33
1	1M	89	GLY	CA-C	-5.44	1.44	1.51
1	hU	124	ILE	N-CA	-5.44	1.41	1.45
1	hU	226	HIS	CA-CB	5.44	1.62	1.53
1	iz	56	LEU	CA-CB	5.44	1.61	1.53
1	jo	22	ALA	CA-C	5.44	1.59	1.52
1	jI	11	VAL	C-N	5.44	1.40	1.33
1	jI	195	ASN	CA-CB	5.44	1.62	1.53
1	kW	226	HIS	CA-C	5.44	1.59	1.52
1	l4	146	SER	C-O	-5.44	1.19	1.24
1	l5	167	ARG	CA-CB	5.44	1.61	1.53
1	2u	41	SER	C-O	-5.44	1.17	1.24
1	2N	173	ARG	CD-NE	5.44	1.53	1.46
1	2Z	226	HIS	CA-CB	5.44	1.62	1.53
1	3F	162	ARG	CA-CB	5.44	1.61	1.53
1	49	122	PRO	C-N	5.44	1.40	1.33
1	4b	22	ALA	CA-CB	5.44	1.61	1.53
1	4T	3	VAL	C-O	5.44	1.29	1.24
1	5Q	84	HIS	CE1-NE2	5.44	1.38	1.32
1	5U	82	ARG	CA-CB	5.44	1.61	1.53
1	5W	103	ASP	CA-C	5.44	1.59	1.52
1	6a	112	GLN	CA-C	5.44	1.59	1.52
1	6b	203	LYS	CA-CB	5.44	1.61	1.53
1	6p	62	HIS	CE1-NE2	5.44	1.38	1.32
1	7N	203	LYS	CA-C	5.44	1.60	1.52
1	89	151	LEU	C-O	-5.44	1.17	1.24
1	8a	69	LEU	CA-C	5.44	1.59	1.52
1	8c	120	HIS	CD2-NE2	5.44	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8g	122	PRO	C-N	5.44	1.40	1.33
1	8i	136	LEU	CA-CB	5.44	1.61	1.53
1	8w	33	SER	CA-CB	-5.44	1.46	1.53
1	8F	152	ASP	CA-C	5.44	1.59	1.52
1	8L	134	ILE	CA-C	5.44	1.59	1.52
1	9h	78	ALA	CA-CB	5.44	1.61	1.53
1	al	65	ALA	N-CA	-5.44	1.39	1.46
1	aG	52	LEU	CA-C	-5.44	1.45	1.52
1	b6	172	LEU	C-O	-5.44	1.17	1.24
1	bb	32	PHE	CA-CB	5.44	1.61	1.53
1	bc	84	HIS	N-CA	-5.44	1.38	1.46
1	br	91	ILE	C-O	-5.44	1.17	1.24
1	c1	12	HIS	CA-C	-5.44	1.46	1.52
1	cn	225	GLY	C-N	5.44	1.40	1.33
1	1g	204	ALA	N-CA	-5.44	1.39	1.46
1	cY	18	ARG	NE-CZ	5.44	1.39	1.33
1	d9	71	GLU	C-O	-5.44	1.17	1.24
1	da	98	GLU	CA-C	5.44	1.59	1.53
1	dJ	200	THR	CA-CB	5.44	1.61	1.53
1	dR	202	LEU	CA-C	-5.44	1.45	1.52
1	ed	110	THR	C-N	5.44	1.41	1.34
1	fs	16	SER	C-N	-5.44	1.27	1.34
1	fY	9	GLN	N-CA	-5.44	1.39	1.46
1	g2	107	THR	C-N	-5.44	1.26	1.33
1	a	88	ALA	CA-CB	5.44	1.60	1.53
1	l	134	ILE	N-CA	5.44	1.52	1.46
1	I	91	ILE	CA-CB	5.44	1.61	1.54
1	V	93	PRO	CA-C	5.44	1.57	1.52
1	6	36	VAL	C-N	5.44	1.39	1.33
1	gc	180	GLU	C-O	-5.44	1.17	1.24
1	gd	200	THR	C-O	-5.44	1.17	1.24
1	gf	224	PRO	N-CA	-5.44	1.40	1.47
1	gt	82	ARG	N-CA	5.44	1.52	1.46
1	gF	230	VAL	C-N	5.44	1.41	1.33
1	h3	108	THR	CA-C	-5.44	1.44	1.52
1	hp	221	VAL	C-O	-5.44	1.16	1.23
1	hy	172	LEU	CA-CB	5.44	1.62	1.53
1	hV	125	PRO	CA-C	5.44	1.60	1.52
1	im	167	ARG	CZ-NH1	-5.44	1.25	1.32
1	iu	211	LEU	C-N	-5.44	1.27	1.33
1	iN	78	ALA	N-CA	5.44	1.52	1.46
1	jg	228	ALA	C-N	5.44	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jD	196	PRO	CA-C	5.44	1.60	1.52
1	jG	108	THR	C-N	5.44	1.40	1.33
1	jU	217	ALA	CA-C	-5.44	1.45	1.53
1	jY	142	VAL	N-CA	-5.44	1.40	1.46
1	ki	164	TYR	C-O	-5.44	1.17	1.24
1	km	209	ALA	CA-C	-5.44	1.46	1.52
1	ko	151	LEU	CB-CG	5.44	1.64	1.53
1	kS	13	GLN	C-N	5.44	1.40	1.33
1	ld	141	ILE	CA-CB	-5.44	1.48	1.54
1	lx	83	LEU	C-N	5.44	1.40	1.33
1	lM	172	LEU	CA-C	-5.44	1.45	1.52
1	2i	79	GLU	N-CA	5.44	1.52	1.46
1	2B	135	ILE	CA-CB	-5.44	1.48	1.54
1	2V	16	SER	CA-CB	5.44	1.61	1.53
1	38	163	ASP	N-CA	-5.44	1.39	1.46
1	3l	162	ARG	C-O	5.44	1.30	1.24
1	3n	188	THR	CB-OG1	-5.44	1.35	1.43
1	3p	163	ASP	C-N	5.44	1.40	1.33
1	3t	131	LYS	C-N	5.44	1.41	1.33
1	3Q	209	ALA	C-N	5.44	1.40	1.33
1	3V	198	CYS	CA-CB	5.44	1.61	1.53
1	3W	91	ILE	C-N	-5.44	1.28	1.33
1	3Z	31	ALA	CA-C	5.44	1.57	1.53
1	46	188	THR	CA-C	5.44	1.60	1.52
1	4B	203	LYS	C-N	5.44	1.41	1.33
1	4E	95	GLN	CA-C	5.44	1.59	1.52
1	6p	82	ARG	NE-CZ	-5.44	1.27	1.33
1	6u	164	TYR	C-N	5.44	1.40	1.33
1	6A	140	LYS	N-CA	-5.44	1.39	1.46
1	7b	40	PHE	CG-CD1	5.44	1.50	1.38
1	7g	78	ALA	CA-CB	5.44	1.61	1.53
1	7q	173	ARG	CD-NE	5.44	1.53	1.46
1	7z	123	PRO	N-CD	-5.44	1.40	1.47
1	7O	183	ASN	CA-C	-5.44	1.45	1.52
1	8a	155	GLN	CA-C	-5.44	1.45	1.52
1	8k	12	HIS	ND1-CE1	5.44	1.38	1.32
1	8p	164	TYR	N-CA	-5.44	1.40	1.46
1	8y	175	GLU	CA-C	-5.44	1.45	1.52
1	8M	49	PRO	N-CA	-5.44	1.40	1.47
1	8N	107	THR	CA-C	-5.44	1.46	1.53
1	99	84	HIS	CE1-NE2	-5.44	1.27	1.32
1	9d	95	GLN	CA-C	-5.44	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9p	33	SER	CA-CB	5.44	1.60	1.53
1	9G	163	ASP	CA-CB	5.44	1.62	1.53
1	9L	142	VAL	CA-CB	-5.44	1.47	1.54
1	9L	142	VAL	CA-C	-5.44	1.45	1.52
1	a8	143	ARG	CD-NE	5.44	1.53	1.46
1	aa	39	MET	CA-CB	5.44	1.61	1.53
1	ad	167	ARG	CD-NE	5.44	1.53	1.46
1	13	178	SER	CA-C	5.44	1.60	1.53
1	aM	85	PRO	CA-CB	-5.44	1.46	1.53
1	b1	92	GLU	CA-C	-5.44	1.46	1.53
1	bw	120	HIS	CE1-NE2	5.44	1.38	1.32
1	bQ	138	LEU	CA-C	5.44	1.59	1.52
1	bS	191	VAL	C-N	5.44	1.42	1.33
1	c5	41	SER	C-O	5.44	1.30	1.24
1	c6	141	ILE	CA-CB	-5.44	1.47	1.54
1	cd	82	ARG	CD-NE	5.44	1.53	1.46
1	1e	195	ASN	CA-CB	5.44	1.61	1.53
1	cF	7	GLN	CA-C	-5.44	1.45	1.52
1	cU	84	HIS	CG-CD2	5.44	1.41	1.35
1	dc	119	THR	C-N	5.44	1.40	1.33
1	de	194	ALA	N-CA	-5.44	1.38	1.45
1	dO	139	ASN	CA-C	5.44	1.59	1.52
1	1n	78	ALA	C-O	5.44	1.30	1.24
1	dT	20	LEU	CA-CB	5.44	1.61	1.53
1	dX	38	PRO	C-N	5.44	1.40	1.33
1	e6	4	GLN	CA-C	-5.44	1.45	1.52
1	e9	111	LEU	N-CA	5.44	1.52	1.46
1	eb	100	ARG	CD-NE	5.44	1.53	1.46
1	1q	88	ALA	CA-C	-5.44	1.45	1.52
1	ew	98	GLU	C-N	5.44	1.40	1.33
1	ex	184	TRP	CA-C	-5.44	1.45	1.52
1	eF	140	LYS	C-N	5.44	1.40	1.33
1	f9	103	ASP	C-N	5.44	1.40	1.33
1	ff	181	VAL	CA-C	5.44	1.59	1.52
1	fm	120	HIS	ND1-CE1	5.44	1.38	1.32
1	1x	195	ASN	CA-C	5.44	1.59	1.53
1	fz	153	ILE	CB-CG1	5.44	1.64	1.53
1	fM	178	SER	CA-C	-5.44	1.45	1.52
1	f	103	ASP	CA-C	5.44	1.59	1.52
1	p	86	VAL	N-CA	5.44	1.52	1.46
1	E	191	VAL	CA-CB	-5.44	1.47	1.54
1	ga	23	TRP	NE1-CE2	-5.44	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gs	197	ASP	CA-C	5.44	1.60	1.52
1	h4	130	TYR	CA-C	-5.44	1.45	1.52
1	hT	97	ARG	CZ-NH2	-5.44	1.26	1.33
1	i2	81	ASP	CA-C	5.44	1.59	1.52
1	in	207	PRO	CA-C	5.44	1.60	1.52
1	jg	150	ILE	CA-CB	-5.44	1.46	1.54
1	kI	79	GLU	C-N	5.44	1.40	1.33
1	kT	194	ALA	N-CA	-5.44	1.38	1.45
1	2F	220	GLY	C-N	5.44	1.39	1.33
1	3c	185	MET	N-CA	-5.44	1.39	1.46
1	3s	138	LEU	N-CA	5.44	1.53	1.46
1	4b	7	GLN	CA-CB	5.44	1.62	1.53
1	4b	215	MET	CA-C	5.44	1.59	1.52
1	5E	183	ASN	CA-CB	5.44	1.61	1.53
1	5W	128	GLU	CA-C	-5.44	1.45	1.52
1	6b	47	ALA	CA-CB	5.44	1.62	1.53
1	6A	2	ILE	C-N	5.44	1.41	1.33
1	77	195	ASN	CA-C	-5.44	1.45	1.52
1	7g	40	PHE	C-N	5.44	1.40	1.33
1	8K	185	MET	CA-C	5.44	1.60	1.52
1	9P	216	THR	CA-C	5.44	1.60	1.52
1	9U	34	PRO	C-N	5.44	1.41	1.33
1	au	52	LEU	CA-C	5.44	1.59	1.52
1	bX	114	GLN	N-CA	-5.44	1.39	1.46
1	cp	159	GLU	CA-C	5.44	1.59	1.52
1	cT	43	LEU	C-N	5.44	1.41	1.33
1	dj	210	THR	N-CA	5.44	1.53	1.45
1	dH	103	ASP	CA-CB	5.44	1.62	1.53
1	dI	25	LYS	C-N	5.44	1.40	1.34
1	dU	118	MET	CA-C	5.44	1.60	1.52
1	ee	35	GLU	N-CA	-5.44	1.39	1.46
1	1q	153	ILE	CA-CB	-5.44	1.47	1.54
1	eo	85	PRO	CA-CB	-5.44	1.46	1.53
1	eq	164	TYR	C-N	5.44	1.40	1.33
1	er	177	ALA	CA-C	-5.44	1.46	1.52
1	et	204	ALA	N-CA	5.44	1.52	1.46
1	1r	62	HIS	CB-CG	-5.44	1.42	1.50
1	ex	18	ARG	CZ-NH1	-5.44	1.25	1.32
1	fK	78	ALA	C-O	-5.44	1.17	1.24
1	g3	207	PRO	C-N	5.44	1.40	1.33
1	q	44	SER	CA-CB	5.44	1.61	1.53
1	gP	73	ILE	CA-CB	-5.43	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gP	140	LYS	CA-CB	5.43	1.61	1.53
1	gT	231	LEU	CA-C	5.43	1.64	1.52
1	1H	97	ARG	CD-NE	5.43	1.53	1.46
1	h8	181	VAL	CA-CB	5.43	1.61	1.54
1	hb	28	GLU	N-CA	-5.43	1.39	1.46
1	hu	30	LYS	CA-C	-5.43	1.45	1.52
1	hA	187	GLU	CA-C	5.43	1.59	1.52
1	hS	99	PRO	N-CA	-5.43	1.40	1.46
1	1M	48	THR	CA-CB	5.43	1.60	1.53
1	hX	225	GLY	C-O	-5.43	1.18	1.24
1	io	105	ALA	CA-C	5.43	1.60	1.52
1	is	40	PHE	CA-CB	5.43	1.61	1.53
1	iB	52	LEU	C-O	-5.43	1.17	1.24
1	iU	37	ILE	CA-CB	5.43	1.57	1.53
1	iV	141	ILE	N-CA	-5.43	1.40	1.46
1	iX	117	TRP	C-N	5.43	1.41	1.33
1	1T	87	HIS	CG-ND1	-5.43	1.32	1.38
1	jd	114	GLN	N-CA	5.43	1.52	1.46
1	jj	123	PRO	C-O	5.43	1.29	1.23
1	jA	162	ARG	CA-C	5.43	1.60	1.52
1	jC	181	VAL	CA-C	-5.43	1.46	1.52
1	jR	133	TRP	C-N	5.43	1.40	1.33
1	jX	97	ARG	CZ-NH2	-5.43	1.26	1.33
1	k9	176	GLN	CA-C	5.43	1.60	1.53
1	kc	38	PRO	N-CD	5.43	1.55	1.47
1	kg	107	THR	N-CA	-5.43	1.39	1.46
1	kE	132	ARG	C-O	-5.43	1.17	1.24
1	kL	171	THR	C-O	-5.43	1.17	1.24
1	l3	163	ASP	C-N	5.43	1.40	1.33
1	lu	117	TRP	CZ2-CH2	5.43	1.47	1.37
1	lI	205	LEU	CA-C	5.43	1.59	1.52
1	2e	23	TRP	N-CA	-5.43	1.40	1.46
1	3s	176	GLN	C-O	5.43	1.30	1.24
1	3T	206	GLY	N-CA	5.43	1.52	1.44
1	3U	130	TYR	CZ-OH	5.43	1.49	1.38
1	4g	73	ILE	C-O	-5.43	1.18	1.24
1	4x	63	GLN	N-CA	5.43	1.52	1.46
1	4E	76	GLU	C-N	5.43	1.41	1.33
1	5w	39	MET	C-N	5.43	1.41	1.33
1	5Y	177	ALA	CA-CB	5.43	1.61	1.53
1	62	164	TYR	C-N	5.43	1.40	1.33
1	68	159	GLU	CA-C	-5.43	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6S	111	LEU	N-CA	5.43	1.53	1.46
1	70	228	ALA	N-CA	-5.43	1.39	1.46
1	7u	219	GLN	CA-CB	5.43	1.60	1.53
1	7v	120	HIS	CG-ND1	-5.43	1.32	1.38
1	7w	208	ALA	CA-C	5.43	1.60	1.52
1	7Z	87	HIS	CG-ND1	5.43	1.44	1.38
1	8q	120	HIS	CG-ND1	5.43	1.44	1.38
1	8I	99	PRO	C-N	-5.43	1.26	1.33
1	95	11	VAL	CA-CB	5.43	1.60	1.54
1	9i	5	ASN	C-O	5.43	1.30	1.23
1	a4	208	ALA	CA-C	-5.43	1.45	1.52
1	a8	62	HIS	CB-CG	5.43	1.57	1.50
1	ak	29	GLU	CA-CB	5.43	1.62	1.53
1	aq	80	TRP	NE1-CE2	-5.43	1.31	1.37
1	aH	127	GLY	N-CA	5.43	1.52	1.45
1	aI	166	ASP	N-CA	-5.43	1.40	1.46
1	aU	6	LEU	N-CA	-5.43	1.38	1.46
1	aY	171	THR	CA-C	-5.43	1.45	1.52
1	b0	132	ARG	CD-NE	5.43	1.53	1.46
1	16	204	ALA	C-N	5.43	1.40	1.33
1	bc	81	ASP	C-N	5.43	1.42	1.33
1	bc	153	ILE	CB-CG1	5.43	1.64	1.53
1	bg	117	TRP	NE1-CE2	-5.43	1.31	1.37
1	bk	17	PRO	C-O	5.43	1.30	1.24
1	bp	67	GLN	CA-C	5.43	1.59	1.52
1	br	198	CYS	CA-C	5.43	1.59	1.52
1	bw	33	SER	CA-C	-5.43	1.47	1.52
1	bz	10	MET	CA-CB	5.43	1.62	1.53
1	bE	8	GLY	CA-C	5.43	1.59	1.51
1	bE	18	ARG	NE-CZ	-5.43	1.27	1.33
1	bE	175	GLU	C-N	5.43	1.41	1.33
1	bI	199	LYS	CA-C	5.43	1.60	1.52
1	cc	181	VAL	C-O	-5.43	1.17	1.24
1	co	190	LEU	C-O	5.43	1.30	1.24
1	ct	112	GLN	CA-CB	5.43	1.61	1.53
1	cw	223	GLY	N-CA	5.43	1.52	1.44
1	1g	204	ALA	CA-C	5.43	1.59	1.52
1	d0	51	ASP	C-O	-5.43	1.17	1.24
1	e2	164	TYR	CA-CB	5.43	1.61	1.53
1	e2	211	LEU	C-N	5.43	1.41	1.33
1	e7	215	MET	CG-SD	5.43	1.94	1.80
1	e8	141	ILE	CB-CG1	5.43	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eh	64	ALA	C-N	5.43	1.41	1.33
1	ei	97	ARG	C-N	5.43	1.42	1.33
1	1s	114	GLN	CA-C	5.43	1.59	1.52
1	1x	8	GLY	CA-C	-5.43	1.44	1.51
1	fv	197	ASP	C-N	5.43	1.41	1.33
1	g6	187	GLU	N-CA	-5.43	1.39	1.46
1	r	66	MET	C-N	5.43	1.41	1.34
1	L	55	MET	CA-C	5.43	1.60	1.52
1	U	21	ASN	CA-CB	5.43	1.61	1.53
1	gl	153	ILE	CA-C	5.43	1.58	1.52
1	gm	12	HIS	CD2-NE2	5.43	1.43	1.37
1	gT	42	ALA	N-CA	5.43	1.52	1.46
1	h5	86	VAL	CA-C	5.43	1.59	1.52
1	ha	227	LYS	CA-CB	5.43	1.62	1.53
1	hd	205	LEU	C-N	5.43	1.41	1.33
1	hZ	71	GLU	CA-C	5.43	1.59	1.52
1	iE	115	ILE	CA-CB	5.43	1.61	1.54
1	iM	167	ARG	C-N	5.43	1.41	1.33
1	1S	9	GLN	CA-CB	5.43	1.62	1.53
1	iT	77	ALA	C-N	5.43	1.41	1.33
1	j5	27	VAL	CA-CB	-5.43	1.47	1.54
1	j9	4	GLN	CA-CB	5.43	1.61	1.53
1	1U	141	ILE	CA-C	5.43	1.59	1.52
1	jc	39	MET	N-CA	5.43	1.52	1.46
1	jB	84	HIS	C-N	-5.43	1.27	1.33
1	jJ	100	ARG	CA-CB	5.43	1.60	1.53
1	jK	3	VAL	C-O	-5.43	1.18	1.24
1	jP	217	ALA	N-CA	-5.43	1.39	1.45
1	kn	164	TYR	C-N	5.43	1.40	1.33
1	kr	169	TYR	CZ-OH	5.43	1.49	1.38
1	ks	84	HIS	CD2-NE2	5.43	1.43	1.37
1	kJ	88	ALA	C-O	-5.43	1.17	1.23
1	ld	56	LEU	CA-C	5.43	1.60	1.52
1	28	15	ILE	CA-CB	5.43	1.59	1.54
1	2e	187	GLU	CA-C	5.43	1.59	1.52
1	2N	117	TRP	CA-CB	5.43	1.62	1.53
1	2P	110	THR	CA-C	5.43	1.60	1.53
1	32	226	HIS	N-CA	5.43	1.52	1.46
1	3a	7	GLN	C-N	5.43	1.40	1.32
1	3Y	47	ALA	C-N	5.43	1.41	1.33
1	4k	162	ARG	CA-CB	5.43	1.61	1.53
1	4m	185	MET	CA-CB	5.43	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4v	60	GLY	N-CA	5.43	1.53	1.45
1	4B	104	ILE	C-N	5.43	1.41	1.33
1	4Q	156	GLY	N-CA	-5.43	1.37	1.44
1	54	47	ALA	CA-CB	5.43	1.61	1.53
1	54	143	ARG	N-CA	-5.43	1.39	1.46
1	5j	7	GLN	CA-CB	5.43	1.60	1.53
1	5p	187	GLU	C-N	5.43	1.41	1.33
1	5G	141	ILE	N-CA	5.43	1.52	1.46
1	5S	21	ASN	N-CA	-5.43	1.40	1.46
1	63	96	MET	N-CA	5.43	1.52	1.45
1	6r	92	GLU	CA-C	5.43	1.59	1.53
1	6t	148	THR	CA-C	5.43	1.59	1.52
1	6F	15	ILE	C-O	5.43	1.29	1.24
1	7a	59	VAL	C-O	5.43	1.30	1.24
1	7a	153	ILE	CA-CB	-5.43	1.48	1.54
1	7e	115	ILE	C-N	5.43	1.40	1.34
1	7f	224	PRO	N-CA	5.43	1.54	1.47
1	7D	226	HIS	CG-ND1	-5.43	1.32	1.38
1	7R	161	PHE	CA-C	-5.43	1.45	1.52
1	81	15	ILE	C-N	5.43	1.42	1.33
1	86	139	ASN	CA-CB	5.43	1.61	1.53
1	8i	162	ARG	N-CA	-5.43	1.39	1.46
1	8L	21	ASN	CA-C	5.43	1.59	1.52
1	8P	81	ASP	C-N	5.43	1.42	1.33
1	8Q	12	HIS	CD2-NE2	5.43	1.43	1.37
1	8R	51	ASP	CA-C	-5.43	1.46	1.52
1	94	142	VAL	C-O	-5.43	1.17	1.24
1	96	13	GLN	C-N	5.43	1.40	1.33
1	9h	166	ASP	C-O	5.43	1.30	1.24
1	9s	100	ARG	CD-NE	5.43	1.53	1.46
1	9v	154	ARG	CD-NE	5.43	1.53	1.46
1	9y	220	GLY	C-N	5.43	1.39	1.33
1	9z	21	ASN	CA-CB	5.43	1.61	1.53
1	9B	147	PRO	N-CA	-5.43	1.40	1.47
1	9H	110	THR	C-N	5.43	1.40	1.33
1	9U	2	ILE	CA-CB	5.43	1.61	1.54
1	9Z	109	SER	N-CA	5.43	1.52	1.46
1	ad	202	LEU	C-O	-5.43	1.17	1.24
1	ae	68	MET	CA-CB	5.43	1.61	1.53
1	ak	178	SER	CA-CB	5.43	1.61	1.53
1	aE	229	ARG	NE-CZ	5.43	1.39	1.33
1	aP	141	ILE	C-O	-5.43	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aU	14	ALA	C-N	5.43	1.40	1.33
1	ba	87	HIS	C-N	5.43	1.43	1.33
1	bE	103	ASP	CA-CB	5.43	1.61	1.53
1	1a	144	MET	C-N	5.43	1.42	1.33
1	1c	1	PRO	N-CA	5.43	1.55	1.47
1	ca	224	PRO	C-N	5.43	1.40	1.33
1	ci	62	HIS	CE1-NE2	5.43	1.38	1.32
1	cq	80	TRP	C-O	5.43	1.30	1.24
1	cU	200	THR	CA-C	5.43	1.59	1.52
1	db	192	GLN	CA-C	5.43	1.59	1.52
1	de	205	LEU	C-N	5.43	1.41	1.33
1	dk	163	ASP	CA-CB	5.43	1.62	1.53
1	dD	165	VAL	CA-CB	-5.43	1.47	1.54
1	dW	42	ALA	CA-C	5.43	1.59	1.52
1	e2	23	TRP	NE1-CE2	5.43	1.43	1.37
1	ef	9	GLN	CA-C	5.43	1.59	1.52
1	ej	163	ASP	CA-CB	5.43	1.62	1.53
1	eq	164	TYR	CA-CB	5.43	1.61	1.53
1	eE	14	ALA	CA-C	5.43	1.59	1.52
1	eK	121	ASN	CA-C	-5.43	1.45	1.52
1	1w	81	ASP	N-CA	-5.43	1.39	1.46
1	fw	202	LEU	C-N	-5.43	1.26	1.33
1	fH	154	ARG	C-N	5.43	1.41	1.33
1	1z	180	GLU	CA-C	5.43	1.59	1.52
1	fR	102	SER	CA-C	5.43	1.60	1.52
1	fW	132	ARG	CA-C	5.43	1.60	1.52
1	1A	170	LYS	CA-C	5.43	1.59	1.52
1	f	201	ILE	CA-C	5.43	1.60	1.53
1	u	13	GLN	N-CA	-5.43	1.38	1.45
1	hD	164	TYR	C-O	-5.43	1.17	1.24
1	hW	11	VAL	CA-C	-5.43	1.46	1.52
1	ia	40	PHE	CA-C	-5.43	1.45	1.52
1	ig	194	ALA	CA-C	5.43	1.59	1.52
1	ix	140	LYS	N-CA	5.43	1.52	1.46
1	iG	82	ARG	CA-CB	5.43	1.62	1.53
1	jz	130	TYR	CA-CB	5.43	1.61	1.53
1	jW	75	GLU	N-CA	-5.43	1.40	1.46
1	l4	164	TYR	C-N	5.43	1.40	1.33
1	lK	30	LYS	N-CA	-5.43	1.39	1.46
1	2d	162	ARG	CA-C	-5.43	1.45	1.52
1	2o	184	TRP	NE1-CE2	-5.43	1.31	1.37
1	2A	142	VAL	N-CA	5.43	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2I	99	PRO	C-O	-5.43	1.17	1.23
1	2R	77	ALA	CA-CB	5.43	1.61	1.53
1	3a	120	HIS	CD2-NE2	5.43	1.43	1.37
1	3p	121	ASN	CA-C	-5.43	1.46	1.52
1	3D	149	SER	CA-C	-5.43	1.45	1.53
1	48	142	VAL	C-N	5.43	1.40	1.33
1	48	167	ARG	CD-NE	5.43	1.53	1.46
1	4W	155	GLN	CA-C	5.43	1.60	1.52
1	58	173	ARG	CA-CB	5.43	1.62	1.53
1	5c	97	ARG	CD-NE	5.43	1.53	1.46
1	5g	120	HIS	C-N	5.43	1.38	1.33
1	5U	79	GLU	CA-C	5.43	1.59	1.52
1	65	218	CYS	CA-C	-5.43	1.45	1.53
1	6c	74	ASN	C-N	5.43	1.40	1.33
1	6L	168	PHE	CA-C	5.43	1.59	1.52
1	6V	12	HIS	CA-CB	5.43	1.61	1.53
1	6V	24	VAL	C-O	-5.43	1.17	1.24
1	7v	135	ILE	CA-CB	-5.43	1.48	1.54
1	7J	182	LYS	CA-CB	5.43	1.61	1.53
1	8U	5	ASN	CA-C	-5.43	1.48	1.53
1	a3	12	HIS	CA-CB	5.43	1.61	1.53
1	a6	59	VAL	C-N	5.43	1.40	1.33
1	a8	159	GLU	CA-CB	5.43	1.63	1.53
1	a9	1	PRO	CA-CB	5.43	1.64	1.53
1	af	66	MET	CA-CB	5.43	1.61	1.53
1	ax	116	GLY	CA-C	5.43	1.58	1.52
1	bb	116	GLY	C-N	5.43	1.41	1.33
1	bu	116	GLY	CA-C	-5.43	1.46	1.52
1	bS	152	ASP	CA-C	-5.43	1.45	1.52
1	1i	184	TRP	CA-C	-5.43	1.45	1.52
1	da	181	VAL	CA-C	-5.43	1.45	1.53
1	dE	39	MET	C-N	5.43	1.40	1.33
1	e7	195	ASN	CA-C	-5.43	1.47	1.53
1	eJ	28	GLU	CA-CB	5.43	1.61	1.53
1	eO	30	LYS	CA-CB	5.43	1.61	1.53
1	1z	149	SER	C-O	-5.43	1.17	1.24
1	fX	107	THR	C-N	5.43	1.41	1.33
1	fZ	36	VAL	N-CA	-5.43	1.39	1.46
1	k	193	ASN	CA-CB	5.43	1.62	1.53
1	A	181	VAL	CA-C	5.43	1.59	1.52
1	U	208	ALA	C-N	5.43	1.40	1.33
1	ga	53	ASN	CA-C	5.43	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gm	100	ARG	C-N	5.43	1.41	1.33
1	gC	87	HIS	CA-C	5.43	1.59	1.52
1	gD	84	HIS	ND1-CE1	5.43	1.38	1.32
1	gO	164	TYR	C-N	5.43	1.40	1.33
1	gW	15	ILE	CA-CB	-5.43	1.47	1.54
1	h4	31	ALA	N-CA	-5.43	1.39	1.46
1	h8	188	THR	CA-C	-5.43	1.45	1.52
1	hg	102	SER	N-CA	-5.43	1.39	1.46
1	hl	37	ILE	CA-CB	5.43	1.57	1.53
1	ht	161	PHE	CA-CB	5.43	1.61	1.53
1	hw	173	ARG	CD-NE	5.43	1.53	1.46
1	1K	2	ILE	CA-C	-5.43	1.46	1.52
1	hK	211	LEU	C-N	5.43	1.41	1.33
1	hR	167	ARG	NE-CZ	-5.43	1.27	1.33
1	hZ	228	ALA	CA-C	5.43	1.60	1.53
1	iu	12	HIS	C-O	-5.43	1.17	1.23
1	iK	211	LEU	N-CA	5.43	1.53	1.46
1	j1	68	MET	C-N	5.43	1.40	1.33
1	jj	50	GLN	N-CA	-5.43	1.39	1.46
1	jC	150	ILE	CA-C	-5.43	1.46	1.52
1	jD	166	ASP	CA-CB	5.43	1.61	1.53
1	jP	160	PRO	CA-CB	5.43	1.61	1.53
1	20	217	ALA	C-N	5.43	1.41	1.33
1	kc	179	GLN	C-N	5.43	1.41	1.34
1	kd	50	GLN	CA-CB	5.43	1.61	1.53
1	kh	187	GLU	C-N	5.43	1.40	1.33
1	22	51	ASP	CA-C	5.43	1.59	1.52
1	kw	16	SER	C-N	-5.43	1.27	1.34
1	l8	223	GLY	N-CA	5.43	1.52	1.44
1	lt	178	SER	C-O	-5.43	1.16	1.23
1	29	25	LYS	C-O	-5.43	1.17	1.24
1	lN	71	GLU	C-N	5.43	1.40	1.33
1	2j	99	PRO	N-CA	-5.43	1.40	1.47
1	2A	23	TRP	C-N	5.43	1.40	1.33
1	2A	186	THR	CA-C	-5.43	1.46	1.52
1	3a	133	TRP	CZ2-CH2	5.43	1.47	1.37
1	3w	125	PRO	CA-C	5.43	1.60	1.52
1	3w	153	ILE	CA-C	5.43	1.60	1.52
1	3H	190	LEU	CA-C	-5.43	1.45	1.52
1	3L	3	VAL	C-O	-5.43	1.18	1.24
1	3O	28	GLU	C-N	5.43	1.41	1.33
1	46	57	ASN	CA-CB	5.43	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	47	218	CYS	CA-CB	5.43	1.62	1.53
1	4e	127	GLY	C-N	5.43	1.41	1.33
1	4N	98	GLU	C-N	5.43	1.40	1.33
1	4T	175	GLU	CA-C	5.43	1.59	1.52
1	5u	114	GLN	C-O	-5.43	1.17	1.24
1	6l	140	LYS	N-CA	-5.43	1.40	1.46
1	6p	126	VAL	C-O	-5.43	1.18	1.24
1	6C	33	SER	CA-CB	5.43	1.61	1.53
1	6N	178	SER	C-O	-5.43	1.16	1.23
1	7i	226	HIS	CB-CG	5.43	1.57	1.50
1	8a	165	VAL	CA-CB	-5.43	1.46	1.54
1	8j	173	ARG	CD-NE	5.43	1.53	1.46
1	8p	30	LYS	CA-C	5.43	1.59	1.52
1	8M	18	ARG	NE-CZ	5.43	1.39	1.33
1	9j	178	SER	C-O	5.43	1.30	1.23
1	9w	98	GLU	C-N	5.43	1.40	1.33
1	9x	33	SER	C-O	-5.43	1.17	1.24
1	9I	226	HIS	CA-CB	5.43	1.62	1.53
1	9U	110	THR	CA-C	5.43	1.60	1.53
1	9X	123	PRO	CA-C	-5.43	1.46	1.52
1	a3	12	HIS	CD2-NE2	5.43	1.43	1.37
1	b6	41	SER	CA-C	5.43	1.59	1.52
1	bm	68	MET	CA-CB	5.43	1.61	1.53
1	bN	75	GLU	CA-CB	5.43	1.61	1.53
1	1b	149	SER	C-N	5.43	1.40	1.33
1	1e	77	ALA	CA-C	5.43	1.60	1.52
1	cw	118	MET	CA-C	5.43	1.60	1.52
1	cz	112	GLN	N-CA	5.43	1.52	1.46
1	cB	11	VAL	N-CA	-5.43	1.39	1.46
1	cD	16	SER	CA-CB	5.43	1.62	1.52
1	cG	79	GLU	C-O	-5.43	1.17	1.24
1	cN	181	VAL	C-O	-5.43	1.17	1.24
1	d6	144	MET	CA-C	-5.43	1.46	1.52
1	da	156	GLY	C-O	-5.43	1.16	1.24
1	df	152	ASP	CA-CB	5.43	1.63	1.53
1	dx	188	THR	N-CA	5.43	1.53	1.46
1	1l	183	ASN	CA-C	-5.43	1.46	1.52
1	dO	76	GLU	C-N	5.43	1.41	1.33
1	e6	87	HIS	CA-C	-5.43	1.46	1.52
1	er	12	HIS	CE1-NE2	-5.43	1.27	1.32
1	1r	226	HIS	CA-C	-5.43	1.45	1.52
1	f8	30	LYS	CA-C	-5.43	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fc	112	GLN	N-CA	5.43	1.53	1.46
1	fd	123	PRO	CA-C	5.43	1.59	1.52
1	fl	191	VAL	C-N	5.43	1.41	1.34
1	fw	185	MET	N-CA	5.43	1.52	1.46
1	fC	128	GLU	CA-C	-5.43	1.45	1.52
1	fI	132	ARG	CD-NE	5.43	1.53	1.46
1	1A	53	ASN	C-N	5.43	1.41	1.33
1	g	26	VAL	N-CA	5.43	1.52	1.46
1	g	37	ILE	C-N	-5.43	1.27	1.34
1	k	131	LYS	CA-CB	5.43	1.61	1.53
1	B	98	GLU	CA-CB	5.43	1.61	1.53
1	3	56	LEU	CA-C	-5.43	1.46	1.52
1	gm	124	ILE	N-CA	-5.43	1.41	1.46
1	gp	167	ARG	CA-CB	5.43	1.61	1.53
1	gC	138	LEU	C-N	5.43	1.40	1.33
1	gK	123	PRO	CA-C	-5.43	1.46	1.52
1	gR	218	CYS	CA-C	-5.43	1.45	1.52
1	hl	28	GLU	C-O	-5.43	1.17	1.24
1	hl	226	HIS	CD2-NE2	5.43	1.43	1.37
1	i9	33	SER	N-CA	-5.43	1.40	1.46
1	ix	90	PRO	N-CD	-5.43	1.40	1.47
1	iC	7	GLN	CA-CB	5.43	1.63	1.53
1	ja	137	GLY	CA-C	-5.43	1.45	1.51
1	ju	50	GLN	CA-C	5.43	1.60	1.52
1	jI	121	ASN	CA-C	5.43	1.58	1.52
1	jY	73	ILE	CA-CB	-5.43	1.48	1.54
1	ke	55	MET	C-O	-5.43	1.17	1.24
1	kH	215	MET	C-N	5.43	1.41	1.33
1	24	128	GLU	C-N	5.43	1.40	1.33
1	3a	214	MET	CA-CB	5.43	1.62	1.53
1	3E	184	TRP	NE1-CE2	-5.43	1.31	1.37
1	5f	141	ILE	N-CA	5.43	1.53	1.46
1	5L	75	GLU	N-CA	5.43	1.52	1.46
1	5O	162	ARG	CA-C	5.43	1.59	1.52
1	6E	142	VAL	N-CA	-5.43	1.40	1.46
1	6M	46	GLY	N-CA	5.43	1.53	1.45
1	7F	129	ILE	N-CA	-5.43	1.40	1.46
1	7Y	33	SER	CA-C	-5.43	1.46	1.53
1	8Z	73	ILE	CA-C	5.43	1.59	1.52
1	92	196	PRO	N-CA	5.43	1.54	1.47
1	9r	57	ASN	N-CA	-5.43	1.39	1.46
1	9t	71	GLU	CA-CB	5.43	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ag	140	LYS	C-N	5.43	1.40	1.33
1	at	174	ALA	CA-C	-5.43	1.46	1.52
1	aG	59	VAL	CA-CB	-5.43	1.49	1.54
1	aL	97	ARG	N-CA	-5.43	1.39	1.46
1	b0	87	HIS	CB-CG	5.43	1.57	1.50
1	16	139	ASN	CA-C	-5.43	1.45	1.52
1	be	50	GLN	CA-C	5.43	1.59	1.52
1	bW	43	LEU	CA-C	5.43	1.60	1.52
1	c8	127	GLY	C-N	-5.43	1.26	1.33
1	c9	108	THR	CA-CB	-5.43	1.45	1.53
1	dm	37	ILE	CA-C	-5.43	1.47	1.52
1	dy	94	GLY	N-CA	5.43	1.53	1.45
1	dD	100	ARG	N-CA	-5.43	1.39	1.45
1	dJ	227	LYS	CA-C	5.43	1.60	1.52
1	eq	121	ASN	C-O	-5.43	1.20	1.25
1	eu	41	SER	CA-CB	5.43	1.61	1.53
1	ez	162	ARG	C-O	-5.43	1.17	1.24
1	f2	181	VAL	CA-C	5.43	1.59	1.52
1	f3	102	SER	C-N	5.43	1.41	1.33
1	fj	12	HIS	ND1-CE1	5.43	1.38	1.32
1	g1	159	GLU	CA-C	5.43	1.59	1.52
1	c	19	THR	C-N	5.43	1.40	1.33
1	q	210	THR	CA-C	5.43	1.60	1.53
1	1H	101	GLY	CA-C	5.43	1.58	1.51
1	hN	223	GLY	C-N	5.43	1.40	1.33
1	hT	117	TRP	NE1-CE2	-5.43	1.31	1.37
1	hX	25	LYS	C-N	5.43	1.40	1.33
1	iz	165	VAL	C-O	-5.43	1.17	1.24
1	iF	212	GLU	C-O	-5.43	1.17	1.24
1	iK	69	LEU	CA-CB	5.43	1.61	1.53
1	iM	195	ASN	CA-C	5.43	1.59	1.53
1	jh	56	LEU	CA-C	5.43	1.59	1.52
1	jz	10	MET	CA-CB	5.43	1.61	1.53
1	jU	186	THR	N-CA	-5.43	1.38	1.46
1	k3	212	GLU	CA-CB	5.43	1.61	1.53
1	k6	120	HIS	ND1-CE1	5.43	1.38	1.32
1	21	157	PRO	C-O	5.43	1.30	1.24
1	kN	69	LEU	CA-CB	5.43	1.61	1.53
1	kQ	7	GLN	C-O	-5.43	1.16	1.24
1	l0	84	HIS	CD2-NE2	5.43	1.43	1.37
1	lm	129	ILE	CA-C	5.43	1.59	1.52
1	28	122	PRO	C-N	-5.43	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	28	178	SER	CA-CB	5.43	1.61	1.53
1	lL	21	ASN	C-N	5.43	1.40	1.33
1	2e	122	PRO	C-N	5.43	1.40	1.33
1	2M	36	VAL	CA-C	5.43	1.60	1.52
1	2V	66	MET	C-O	-5.43	1.17	1.24
1	3c	69	LEU	C-O	-5.43	1.17	1.24
1	3F	120	HIS	CG-CD2	5.43	1.41	1.35
1	3I	146	SER	CA-C	5.43	1.59	1.52
1	4f	134	ILE	CA-C	5.43	1.59	1.52
1	4E	122	PRO	N-CA	5.43	1.56	1.47
1	4E	204	ALA	CA-CB	5.43	1.62	1.53
1	4M	68	MET	CA-CB	5.43	1.61	1.53
1	51	120	HIS	CG-CD2	5.43	1.41	1.35
1	57	174	ALA	N-CA	5.43	1.53	1.46
1	5k	169	TYR	N-CA	-5.43	1.39	1.46
1	5l	198	CYS	CA-CB	5.43	1.61	1.53
1	5x	100	ARG	CD-NE	5.43	1.53	1.46
1	5J	225	GLY	CA-C	5.43	1.58	1.51
1	6b	219	GLN	CA-C	5.43	1.59	1.52
1	6u	121	ASN	C-O	-5.43	1.18	1.25
1	6O	228	ALA	CA-C	5.43	1.59	1.52
1	7d	40	PHE	N-CA	-5.43	1.39	1.46
1	7f	69	LEU	CA-CB	5.43	1.61	1.53
1	7l	39	MET	CA-C	-5.43	1.46	1.52
1	7o	97	ARG	C-O	-5.43	1.16	1.23
1	7r	136	LEU	CA-C	5.43	1.59	1.52
1	7t	203	LYS	C-O	-5.43	1.17	1.24
1	7E	224	PRO	N-CD	-5.43	1.40	1.47
1	7Y	133	TRP	CA-CB	5.43	1.61	1.53
1	81	105	ALA	CA-C	-5.43	1.46	1.52
1	8x	11	VAL	CA-CB	-5.43	1.45	1.53
1	8W	131	LYS	CA-CB	5.43	1.61	1.53
1	8X	109	SER	C-N	5.43	1.41	1.33
1	8Z	103	ASP	CA-CB	5.43	1.62	1.53
1	97	166	ASP	N-CA	-5.43	1.40	1.46
1	9D	5	ASN	N-CA	-5.43	1.39	1.46
1	Y	107	THR	CA-CB	5.43	1.61	1.53
1	9T	35	GLU	C-N	5.43	1.40	1.33
1	9U	47	ALA	CA-CB	5.43	1.62	1.53
1	9Y	208	ALA	CA-C	5.43	1.60	1.53
1	a3	18	ARG	CA-C	5.43	1.59	1.52
1	ag	107	THR	CA-C	5.43	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ai	167	ARG	CA-C	5.43	1.59	1.52
1	aI	146	SER	CA-C	-5.43	1.45	1.52
1	aZ	107	THR	C-N	5.43	1.41	1.33
1	b2	18	ARG	CA-CB	5.43	1.61	1.53
1	bb	118	MET	CA-CB	5.43	1.63	1.53
1	bg	90	PRO	C-N	5.43	1.40	1.33
1	bs	227	LYS	N-CA	-5.43	1.39	1.46
1	bv	87	HIS	ND1-CE1	5.43	1.38	1.32
1	bC	135	ILE	N-CA	-5.43	1.40	1.46
1	bP	167	ARG	CZ-NH2	-5.43	1.26	1.33
1	1b	200	THR	CA-C	-5.43	1.45	1.52
1	cb	173	ARG	C-N	5.43	1.41	1.33
1	ct	76	GLU	N-CA	5.43	1.53	1.46
1	cy	142	VAL	CA-C	-5.43	1.45	1.52
1	cA	178	SER	N-CA	5.43	1.53	1.45
1	1h	196	PRO	N-CA	5.43	1.54	1.47
1	cV	161	PHE	N-CA	5.43	1.52	1.46
1	d4	146	SER	C-O	-5.43	1.17	1.24
1	da	23	TRP	N-CA	-5.43	1.40	1.46
1	dc	21	ASN	C-N	5.43	1.40	1.33
1	dg	224	PRO	CA-C	-5.43	1.44	1.52
1	ds	18	ARG	CA-C	5.43	1.59	1.52
1	ds	186	THR	CA-C	-5.43	1.45	1.52
1	dJ	168	PHE	CA-CB	5.43	1.61	1.53
1	dX	221	VAL	N-CA	5.43	1.52	1.46
1	ee	84	HIS	CA-CB	5.43	1.59	1.53
1	ej	203	LYS	N-CA	-5.43	1.39	1.46
1	eo	102	SER	N-CA	5.43	1.52	1.46
1	ep	186	THR	C-N	5.43	1.41	1.34
1	eq	134	ILE	CA-CB	-5.43	1.48	1.54
1	1t	57	ASN	C-N	-5.43	1.26	1.33
1	f5	177	ALA	CA-C	5.43	1.59	1.52
1	fp	138	LEU	CA-CB	5.43	1.61	1.53
1	fM	213	GLU	CA-C	5.43	1.59	1.52
1	fX	176	GLN	CA-C	5.43	1.59	1.52
1	g1	44	SER	N-CA	-5.43	1.39	1.46
1	g4	123	PRO	C-N	5.43	1.38	1.32
1	g7	203	LYS	CA-CB	5.43	1.61	1.53
1	c	14	ALA	CA-C	5.43	1.59	1.52
1	j	10	MET	CA-CB	5.43	1.62	1.53
1	t	137	GLY	CA-C	-5.43	1.46	1.52
1	2	50	GLN	N-CA	5.43	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	159	GLU	CA-CB	5.43	1.61	1.52
1	gm	174	ALA	N-CA	-5.42	1.39	1.46
1	gv	174	ALA	N-CA	5.42	1.53	1.46
1	gz	75	GLU	N-CA	-5.42	1.39	1.46
1	gF	227	LYS	C-N	5.42	1.40	1.33
1	gL	27	VAL	CA-CB	-5.42	1.47	1.54
1	1F	43	LEU	CA-CB	5.42	1.61	1.53
1	gN	199	LYS	N-CA	-5.42	1.39	1.46
1	hl	185	MET	N-CA	5.42	1.52	1.46
1	hW	132	ARG	CD-NE	5.42	1.53	1.46
1	i1	201	ILE	CA-C	5.42	1.59	1.52
1	i5	30	LYS	CA-CB	5.42	1.62	1.54
1	i6	39	MET	CA-CB	5.42	1.62	1.53
1	ii	12	HIS	CA-CB	5.42	1.62	1.53
1	1R	204	ALA	CA-C	5.42	1.59	1.52
1	j4	203	LYS	CA-CB	5.42	1.61	1.53
1	1U	45	GLU	C-O	5.42	1.30	1.24
1	1U	210	THR	CA-C	5.42	1.60	1.53
1	jk	141	ILE	CA-C	-5.42	1.46	1.52
1	jA	130	TYR	N-CA	5.42	1.52	1.46
1	k4	84	HIS	CB-CG	-5.42	1.42	1.50
1	k6	215	MET	CA-C	5.42	1.59	1.52
1	k9	222	GLY	C-N	-5.42	1.25	1.33
1	kA	116	GLY	CA-C	-5.42	1.45	1.51
1	kA	129	ILE	CA-C	-5.42	1.46	1.52
1	kI	21	ASN	N-CA	5.42	1.53	1.46
1	kN	68	MET	CA-C	5.42	1.60	1.52
1	25	111	LEU	CA-C	5.42	1.60	1.52
1	lj	116	GLY	CA-C	-5.42	1.46	1.52
1	lm	25	LYS	N-CA	-5.42	1.40	1.46
1	lx	156	GLY	CA-C	5.42	1.59	1.51
1	ly	218	CYS	CA-CB	5.42	1.62	1.53
1	29	151	LEU	CA-C	-5.42	1.45	1.52
1	2c	214	MET	CA-CB	5.42	1.61	1.53
1	2r	135	ILE	C-N	5.42	1.41	1.33
1	2G	161	PHE	N-CA	-5.42	1.39	1.46
1	2I	104	ILE	CA-C	5.42	1.59	1.52
1	2T	63	GLN	CA-CB	5.42	1.62	1.53
1	37	214	MET	C-O	-5.42	1.17	1.24
1	3h	191	VAL	N-CA	-5.42	1.40	1.46
1	3m	122	PRO	C-N	5.42	1.40	1.33
1	3I	67	GLN	CA-CB	5.42	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3U	155	GLN	CA-CB	5.42	1.60	1.53
1	3Y	87	HIS	CE1-NE2	-5.42	1.27	1.32
1	4H	8	GLY	CA-C	5.42	1.57	1.51
1	4L	40	PHE	CA-C	5.42	1.59	1.52
1	4U	58	THR	C-N	5.42	1.40	1.33
1	51	9	GLN	CA-CB	5.42	1.61	1.53
1	54	154	ARG	CD-NE	5.42	1.53	1.46
1	55	164	TYR	C-N	5.42	1.40	1.34
1	5t	169	TYR	C-N	5.42	1.41	1.33
1	5z	167	ARG	CA-C	-5.42	1.45	1.52
1	5H	6	LEU	C-O	-5.42	1.17	1.24
1	5H	76	GLU	CA-CB	5.42	1.62	1.53
1	5T	155	GLN	CA-CB	5.42	1.61	1.53
1	62	15	ILE	C-O	5.42	1.30	1.24
1	6c	86	VAL	CA-CB	-5.42	1.49	1.54
1	6e	162	ARG	CA-C	5.42	1.59	1.52
1	6j	28	GLU	CA-CB	5.42	1.63	1.53
1	7k	87	HIS	CA-CB	-5.42	1.44	1.53
1	7t	110	THR	C-N	5.42	1.41	1.33
1	7y	191	VAL	N-CA	5.42	1.52	1.46
1	7z	150	ILE	CA-CB	-5.42	1.47	1.54
1	7B	138	LEU	CA-CB	5.42	1.61	1.53
1	7C	3	VAL	N-CA	-5.42	1.39	1.46
1	8h	97	ARG	N-CA	5.42	1.52	1.46
1	8l	76	GLU	C-N	5.42	1.41	1.33
1	8p	136	LEU	CA-CB	5.42	1.61	1.53
1	8v	182	LYS	C-N	5.42	1.41	1.33
1	8N	118	MET	CA-CB	5.42	1.62	1.53
1	8T	80	TRP	CA-CB	5.42	1.61	1.53
1	8Z	100	ARG	CD-NE	5.42	1.53	1.46
1	9g	39	MET	C-N	5.42	1.41	1.33
1	9E	95	GLN	CA-CB	5.42	1.63	1.53
1	ar	192	GLN	CA-CB	5.42	1.61	1.53
1	aD	212	GLU	C-N	-5.42	1.26	1.33
1	aK	55	MET	C-N	5.42	1.41	1.33
1	aN	204	ALA	C-N	5.42	1.41	1.33
1	b2	162	ARG	N-CA	-5.42	1.40	1.46
1	bb	171	THR	CB-OG1	-5.42	1.35	1.43
1	bv	59	VAL	C-N	5.42	1.41	1.33
1	bv	201	ILE	CA-C	-5.42	1.45	1.52
1	bN	152	ASP	CA-CB	5.42	1.62	1.53
1	bN	159	GLU	CA-C	5.42	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bQ	90	PRO	CA-CB	5.42	1.61	1.53
1	cr	53	ASN	CA-CB	5.42	1.61	1.53
1	cu	44	SER	CA-C	-5.42	1.45	1.52
1	cO	185	MET	CA-CB	5.42	1.61	1.53
1	d1	54	THR	C-O	-5.42	1.17	1.24
1	di	84	HIS	ND1-CE1	5.42	1.38	1.32
1	dn	200	THR	CB-OG1	-5.42	1.35	1.43
1	dt	23	TRP	NE1-CE2	5.42	1.43	1.37
1	dD	122	PRO	C-N	5.42	1.40	1.33
1	dK	50	GLN	CA-CB	5.42	1.61	1.53
1	dR	97	ARG	CD-NE	5.42	1.53	1.46
1	e4	56	LEU	CA-C	-5.42	1.46	1.52
1	ej	83	LEU	CA-C	5.42	1.59	1.52
1	ev	195	ASN	CA-CB	5.42	1.61	1.53
1	eE	21	ASN	C-N	5.42	1.40	1.33
1	fg	173	ARG	CD-NE	5.42	1.53	1.46
1	fA	113	GLU	C-N	5.42	1.40	1.33
1	fJ	97	ARG	CD-NE	5.42	1.53	1.46
1	fX	187	GLU	N-CA	-5.42	1.39	1.46
1	q	177	ALA	N-CA	-5.42	1.39	1.46
1	u	92	GLU	CA-C	5.42	1.57	1.52
1	L	103	ASP	N-CA	-5.42	1.39	1.46
1	gu	59	VAL	CA-C	5.42	1.59	1.52
1	he	2	ILE	N-CA	-5.42	1.40	1.46
1	1M	24	VAL	N-CA	-5.42	1.39	1.46
1	in	121	ASN	C-O	-5.42	1.18	1.24
1	j3	8	GLY	N-CA	5.42	1.53	1.45
1	1W	210	THR	C-N	5.42	1.41	1.33
1	kr	207	PRO	C-O	-5.42	1.17	1.24
1	kD	106	GLY	C-N	5.42	1.41	1.33
1	kP	185	MET	CA-C	-5.42	1.45	1.52
1	kY	226	HIS	ND1-CE1	5.42	1.38	1.32
1	2e	207	PRO	C-N	5.42	1.41	1.33
1	2g	93	PRO	CA-C	5.42	1.60	1.52
1	3t	139	ASN	CA-C	5.42	1.59	1.52
1	3P	95	GLN	C-N	5.42	1.40	1.33
1	3P	141	ILE	CB-CG1	5.42	1.64	1.53
1	5h	117	TRP	N-CA	-5.42	1.39	1.46
1	5w	45	GLU	CA-CB	5.42	1.60	1.53
1	5y	126	VAL	CA-CB	-5.42	1.48	1.54
1	5L	120	HIS	CA-CB	5.42	1.61	1.53
1	5Y	79	GLU	CA-CB	5.42	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6r	131	LYS	CA-CB	5.42	1.61	1.53
1	72	197	ASP	CA-C	5.42	1.60	1.52
1	7c	14	ALA	C-N	5.42	1.41	1.33
1	7r	7	GLN	C-N	5.42	1.40	1.33
1	8D	1	PRO	N-CD	5.42	1.55	1.47
1	8P	107	THR	CA-CB	5.42	1.62	1.54
1	a5	126	VAL	CA-C	-5.42	1.45	1.52
1	aN	226	HIS	ND1-CE1	5.42	1.38	1.32
1	b4	230	VAL	N-CA	-5.42	1.39	1.46
1	bo	16	SER	N-CA	5.42	1.52	1.45
1	bN	72	THR	CA-C	-5.42	1.45	1.52
1	bO	62	HIS	CD2-NE2	5.42	1.43	1.37
1	c4	6	LEU	CA-C	-5.42	1.46	1.52
1	cr	84	HIS	CA-CB	5.42	1.59	1.53
1	dr	21	ASN	N-CA	-5.42	1.40	1.46
1	dv	42	ALA	N-CA	-5.42	1.39	1.46
1	dy	49	PRO	C-O	-5.42	1.17	1.24
1	1o	53	ASN	CA-CB	5.42	1.61	1.53
1	eM	117	TRP	CA-CB	5.42	1.61	1.53
1	eS	201	ILE	CA-CB	5.42	1.60	1.54
1	fn	158	LYS	N-CA	-5.42	1.38	1.46
1	fW	168	PHE	N-CA	-5.42	1.40	1.46
1	g3	218	CYS	CA-C	-5.42	1.45	1.52
1	g8	198	CYS	N-CA	-5.42	1.39	1.46
1	gO	230	VAL	N-CA	-5.42	1.39	1.46
1	gU	128	GLU	C-N	5.42	1.40	1.33
1	gY	54	THR	C-O	-5.42	1.17	1.24
1	h4	52	LEU	CA-CB	5.42	1.61	1.53
1	hn	230	VAL	CA-C	-5.42	1.47	1.53
1	hw	171	THR	CA-C	5.42	1.59	1.52
1	hM	45	GLU	C-N	5.42	1.40	1.33
1	ib	84	HIS	CA-CB	5.42	1.60	1.53
1	ie	155	GLN	CA-C	5.42	1.59	1.52
1	iv	69	LEU	N-CA	-5.42	1.39	1.46
1	iK	45	GLU	C-O	-5.42	1.17	1.24
1	iU	63	GLN	CA-CB	5.42	1.62	1.53
1	j0	194	ALA	N-CA	-5.42	1.39	1.46
1	j6	119	THR	C-O	-5.42	1.16	1.24
1	j8	46	GLY	CA-C	-5.42	1.44	1.51
1	je	25	LYS	CA-CB	5.42	1.61	1.53
1	jx	124	ILE	CA-CB	-5.42	1.48	1.53
1	jz	160	PRO	C-N	5.42	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Y	40	PHE	C-N	-5.42	1.26	1.33
1	jU	153	ILE	CA-CB	5.42	1.60	1.54
1	kp	113	GLU	CA-C	5.42	1.59	1.52
1	l0	53	ASN	C-O	-5.42	1.17	1.24
1	l6	62	HIS	CE1-NE2	5.42	1.38	1.32
1	lk	147	PRO	N-CA	-5.42	1.42	1.47
1	lt	229	ARG	NE-CZ	-5.42	1.27	1.33
1	lK	145	TYR	N-CA	-5.42	1.40	1.46
1	2d	83	LEU	CA-CB	5.42	1.61	1.53
1	2D	70	LYS	N-CA	5.42	1.53	1.46
1	2I	203	LYS	N-CA	-5.42	1.39	1.46
1	3a	23	TRP	NE1-CE2	-5.42	1.31	1.37
1	3n	226	HIS	CA-C	5.42	1.60	1.52
1	3F	83	LEU	CA-C	5.42	1.59	1.52
1	3L	115	ILE	CA-C	-5.42	1.45	1.52
1	3M	22	ALA	N-CA	-5.42	1.39	1.46
1	4b	118	MET	C-N	5.42	1.40	1.33
1	4b	120	HIS	ND1-CE1	5.42	1.38	1.32
1	4m	215	MET	CA-CB	5.42	1.62	1.53
1	4u	104	ILE	CA-CB	-5.42	1.48	1.54
1	4A	19	THR	CA-CB	5.42	1.61	1.53
1	4B	184	TRP	CD2-CE3	5.42	1.49	1.40
1	4S	228	ALA	C-N	5.42	1.40	1.33
1	57	55	MET	C-O	-5.42	1.17	1.24
1	5d	183	ASN	C-N	5.42	1.41	1.33
1	5n	134	ILE	CA-CB	-5.42	1.48	1.54
1	5Q	207	PRO	N-CA	-5.42	1.40	1.47
1	61	88	ALA	C-O	-5.42	1.17	1.24
1	62	124	ILE	CB-CG1	5.42	1.64	1.53
1	6m	46	GLY	N-CA	5.42	1.53	1.45
1	6T	52	LEU	CA-CB	5.42	1.61	1.53
1	78	11	VAL	C-N	5.42	1.41	1.33
1	7b	230	VAL	CA-CB	5.42	1.63	1.54
1	7i	79	GLU	N-CA	-5.42	1.40	1.46
1	7H	32	PHE	CA-C	-5.42	1.47	1.53
1	7V	224	PRO	C-N	5.42	1.38	1.33
1	8Q	223	GLY	C-N	-5.42	1.28	1.33
1	9f	143	ARG	CD-NE	5.42	1.53	1.46
1	9U	177	ALA	CA-C	5.42	1.60	1.52
1	a5	56	LEU	CA-C	-5.42	1.45	1.52
1	ag	207	PRO	N-CA	-5.42	1.41	1.47
1	aj	163	ASP	CA-C	5.42	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ap	166	ASP	C-N	5.42	1.41	1.33
1	aU	108	THR	C-N	5.42	1.41	1.33
1	15	115	ILE	CA-CB	-5.42	1.48	1.54
1	bi	143	ARG	CD-NE	5.42	1.53	1.46
1	bv	112	GLN	N-CA	5.42	1.53	1.46
1	1a	133	TRP	CA-C	5.42	1.59	1.52
1	bU	77	ALA	N-CA	-5.42	1.39	1.46
1	cf	97	ARG	CA-C	-5.42	1.45	1.52
1	cD	226	HIS	CB-CG	5.42	1.57	1.50
1	cF	6	LEU	C-N	5.42	1.41	1.33
1	cF	37	ILE	CB-CG1	5.42	1.64	1.53
1	cH	45	GLU	C-N	5.42	1.41	1.33
1	cI	175	GLU	CA-C	-5.42	1.45	1.52
1	cP	189	LEU	CA-C	-5.42	1.45	1.52
1	cQ	12	HIS	C-O	-5.42	1.17	1.23
1	d4	226	HIS	C-N	5.42	1.41	1.33
1	di	2	ILE	CA-C	-5.42	1.46	1.52
1	1k	131	LYS	N-CA	-5.42	1.40	1.46
1	dv	23	TRP	NE1-CE2	-5.42	1.31	1.37
1	dz	231	LEU	CA-C	5.42	1.64	1.52
1	dL	183	ASN	CA-C	5.42	1.59	1.52
1	e7	49	PRO	C-N	5.42	1.40	1.33
1	eb	60	GLY	C-N	5.42	1.42	1.33
1	eG	110	THR	C-N	5.42	1.41	1.34
1	eN	108	THR	N-CA	5.42	1.52	1.46
1	1t	137	GLY	N-CA	5.42	1.52	1.45
1	eU	193	ASN	C-N	5.42	1.40	1.33
1	fa	125	PRO	CA-C	5.42	1.57	1.53
1	fn	4	GLN	CA-CB	5.42	1.61	1.53
1	fy	71	GLU	N-CA	-5.42	1.39	1.46
1	v	45	GLU	CA-CB	5.42	1.60	1.53
1	L	180	GLU	C-N	5.42	1.40	1.33
1	P	193	ASN	N-CA	5.42	1.52	1.46
1	6	34	PRO	CA-C	5.42	1.60	1.52
1	gP	1	PRO	N-CD	5.42	1.55	1.47
1	gW	2	ILE	CB-CG1	5.42	1.64	1.53
1	h6	153	ILE	N-CA	5.42	1.52	1.46
1	hy	197	ASP	N-CA	5.42	1.52	1.46
1	hJ	101	GLY	CA-C	5.42	1.58	1.52
1	hK	62	HIS	CB-CG	-5.42	1.42	1.50
1	ii	98	GLU	CA-C	5.42	1.59	1.53
1	iy	114	GLN	CA-C	-5.42	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1W	132	ARG	CA-CB	5.42	1.61	1.53
1	jJ	229	ARG	NE-CZ	5.42	1.39	1.33
1	jM	218	CYS	C-N	5.42	1.40	1.33
1	kJ	37	ILE	C-O	-5.42	1.20	1.24
1	l2	5	ASN	C-O	-5.42	1.17	1.24
1	lQ	2	ILE	C-O	-5.42	1.17	1.24
1	2e	159	GLU	CA-C	5.42	1.58	1.52
1	2y	144	MET	SD-CE	5.42	1.93	1.79
1	2O	216	THR	CA-C	5.42	1.60	1.52
1	3j	87	HIS	CA-C	-5.42	1.45	1.52
1	3p	97	ARG	CA-C	5.42	1.60	1.52
1	3r	217	ALA	N-CA	-5.42	1.38	1.45
1	3Q	166	ASP	N-CA	-5.42	1.40	1.46
1	43	1	PRO	N-CD	5.42	1.55	1.47
1	49	125	PRO	CA-CB	5.42	1.61	1.53
1	4t	7	GLN	CA-CB	5.42	1.63	1.53
1	61	166	ASP	N-CA	-5.42	1.39	1.46
1	6d	148	THR	CA-CB	5.42	1.63	1.53
1	7h	227	LYS	N-CA	-5.42	1.39	1.46
1	7t	20	LEU	CA-CB	5.42	1.61	1.53
1	8o	229	ARG	NE-CZ	-5.42	1.27	1.33
1	8q	37	ILE	C-N	-5.42	1.27	1.34
1	8w	12	HIS	CB-CG	5.42	1.57	1.50
1	9c	84	HIS	CD2-NE2	5.42	1.43	1.37
1	9g	62	HIS	CG-CD2	5.42	1.41	1.35
1	9z	185	MET	N-CA	-5.42	1.39	1.46
1	10	37	ILE	C-N	5.42	1.40	1.34
1	ap	23	TRP	C-N	5.42	1.40	1.33
1	aI	86	VAL	CA-C	5.42	1.58	1.52
1	bh	27	VAL	N-CA	5.42	1.53	1.46
1	bs	229	ARG	CA-C	5.42	1.59	1.52
1	c3	166	ASP	C-N	-5.42	1.26	1.33
1	1n	93	PRO	CA-C	5.42	1.59	1.52
1	f0	177	ALA	CA-C	5.42	1.59	1.52
1	f1	59	VAL	CA-C	-5.42	1.46	1.52
1	fb	181	VAL	CA-CB	-5.42	1.47	1.54
1	fo	129	ILE	N-CA	-5.42	1.40	1.46
1	fu	44	SER	C-N	5.42	1.40	1.33
1	fP	151	LEU	N-CA	5.42	1.53	1.46
1	g1	144	MET	CA-C	5.42	1.60	1.52
1	gI	94	GLY	C-N	-5.42	1.26	1.33
1	gW	156	GLY	C-N	5.42	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hq	37	ILE	CA-C	5.42	1.57	1.52
1	hC	12	HIS	C-N	5.42	1.40	1.33
1	hF	120	HIS	CD2-NE2	5.42	1.43	1.37
1	hM	20	LEU	C-N	5.42	1.41	1.33
1	hT	108	THR	C-N	5.42	1.41	1.33
1	hZ	18	ARG	C-N	-5.42	1.26	1.33
1	i4	6	LEU	N-CA	-5.42	1.39	1.45
1	i6	62	HIS	CA-CB	5.42	1.61	1.53
1	ig	220	GLY	CA-C	-5.42	1.41	1.51
1	iu	188	THR	N-CA	-5.42	1.39	1.46
1	iO	93	PRO	C-N	5.42	1.40	1.33
1	iS	181	VAL	CA-C	5.42	1.59	1.52
1	iX	129	ILE	N-CA	-5.42	1.39	1.46
1	ja	58	THR	CA-CB	5.42	1.62	1.53
1	jh	161	PHE	C-N	5.42	1.41	1.33
1	jR	121	ASN	CA-CB	5.42	1.60	1.52
1	jV	79	GLU	CA-CB	5.42	1.61	1.53
1	jZ	16	SER	CA-C	5.42	1.59	1.52
1	jZ	145	TYR	CA-C	-5.42	1.46	1.52
1	k4	126	VAL	N-CA	-5.42	1.40	1.46
1	ks	133	TRP	NE1-CE2	-5.42	1.31	1.37
1	kK	111	LEU	CA-C	5.42	1.60	1.52
1	kV	27	VAL	CA-CB	-5.42	1.48	1.54
1	lc	197	ASP	N-CA	-5.42	1.39	1.46
1	lg	134	ILE	CA-C	5.42	1.59	1.52
1	lh	51	ASP	N-CA	5.42	1.53	1.46
1	lk	140	LYS	N-CA	5.42	1.52	1.46
1	29	106	GLY	C-N	5.42	1.41	1.33
1	lN	10	MET	N-CA	-5.42	1.39	1.46
1	lP	88	ALA	CA-C	-5.42	1.46	1.52
1	2d	149	SER	C-N	5.42	1.40	1.34
1	2f	136	LEU	C-N	5.42	1.40	1.33
1	2v	182	LYS	N-CA	5.42	1.52	1.46
1	2y	120	HIS	CB-CG	-5.42	1.42	1.50
1	2H	93	PRO	CA-C	5.42	1.59	1.52
1	2S	201	ILE	C-O	-5.42	1.17	1.24
1	38	209	ALA	C-N	5.42	1.40	1.33
1	3c	229	ARG	CA-CB	5.42	1.62	1.53
1	4f	19	THR	C-N	5.42	1.40	1.33
1	4v	176	GLN	CA-CB	5.42	1.62	1.53
1	4E	67	GLN	CA-C	-5.42	1.45	1.52
1	4F	75	GLU	CA-C	-5.42	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5t	189	LEU	C-N	5.42	1.40	1.33
1	5N	139	ASN	N-CA	5.42	1.52	1.46
1	5T	91	ILE	CA-C	5.42	1.59	1.52
1	66	162	ARG	CD-NE	5.42	1.53	1.46
1	6p	18	ARG	CA-C	5.42	1.60	1.52
1	6y	65	ALA	N-CA	-5.42	1.39	1.46
1	6B	66	MET	SD-CE	5.42	1.93	1.79
1	6P	67	GLN	C-N	5.42	1.41	1.33
1	7m	118	MET	CA-C	-5.42	1.45	1.52
1	7B	49	PRO	N-CA	-5.42	1.40	1.47
1	7K	36	VAL	C-N	5.42	1.41	1.33
1	8a	62	HIS	CA-C	-5.42	1.45	1.53
1	8e	15	ILE	CA-C	-5.42	1.46	1.52
1	8j	160	PRO	N-CD	-5.42	1.40	1.47
1	8I	87	HIS	ND1-CE1	5.42	1.38	1.32
1	8I	98	GLU	CA-C	5.42	1.58	1.52
1	8J	110	THR	CA-C	-5.42	1.46	1.52
1	8L	38	PRO	N-CA	-5.42	1.40	1.47
1	8R	43	LEU	N-CA	-5.42	1.39	1.46
1	8T	195	ASN	CA-CB	5.42	1.61	1.53
1	8Y	177	ALA	C-N	5.42	1.40	1.33
1	8Z	141	ILE	C-N	5.42	1.40	1.33
1	90	51	ASP	CA-CB	5.42	1.61	1.53
1	94	119	THR	N-CA	5.42	1.53	1.46
1	9E	32	PHE	CA-CB	5.42	1.60	1.53
1	9R	12	HIS	CD2-NE2	5.42	1.43	1.37
1	9R	212	GLU	CA-C	5.42	1.59	1.52
1	a2	229	ARG	C-N	5.42	1.39	1.33
1	10	27	VAL	N-CA	-5.42	1.40	1.46
1	bf	7	GLN	C-O	5.42	1.30	1.23
1	bt	93	PRO	CA-C	5.42	1.59	1.52
1	bR	217	ALA	CA-CB	5.42	1.61	1.53
1	c3	229	ARG	C-O	-5.42	1.17	1.23
1	c7	48	THR	CA-CB	5.42	1.60	1.53
1	co	162	ARG	CZ-NH2	-5.42	1.26	1.33
1	cr	204	ALA	CA-C	5.42	1.59	1.52
1	d1	207	PRO	CA-C	5.42	1.59	1.52
1	d2	53	ASN	CA-CB	5.42	1.62	1.53
1	dh	107	THR	CA-C	5.42	1.59	1.53
1	di	197	ASP	C-O	-5.42	1.17	1.24
1	dp	31	ALA	C-N	5.42	1.41	1.33
1	dF	162	ARG	CD-NE	5.42	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dG	229	ARG	CD-NE	5.42	1.53	1.46
1	ek	187	GLU	N-CA	-5.42	1.40	1.46
1	ey	87	HIS	ND1-CE1	5.42	1.38	1.32
1	f0	23	TRP	NE1-CE2	-5.42	1.31	1.37
1	f1	140	LYS	CA-C	-5.42	1.45	1.52
1	fa	80	TRP	NE1-CE2	5.42	1.43	1.37
1	ff	166	ASP	C-O	-5.42	1.17	1.24
1	fg	120	HIS	CG-CD2	5.42	1.41	1.35
1	fp	180	GLU	N-CA	5.42	1.52	1.46
1	fq	114	GLN	C-N	5.42	1.40	1.33
1	fD	100	ARG	CZ-NH2	-5.42	1.26	1.33
1	fI	107	THR	C-O	-5.42	1.17	1.24
1	fN	176	GLN	C-N	5.42	1.40	1.33
1	fZ	171	THR	C-O	-5.42	1.17	1.24
1	p	56	LEU	CA-CB	5.42	1.62	1.53
1	P	150	ILE	CA-CB	-5.42	1.47	1.54
1	gl	211	LEU	CA-C	-5.42	1.45	1.52
1	gy	29	GLU	N-CA	-5.42	1.39	1.46
1	gA	9	GLN	C-N	5.42	1.41	1.33
1	gB	202	LEU	CA-C	-5.42	1.45	1.52
1	gK	85	PRO	N-CA	5.42	1.53	1.47
1	hE	138	LEU	CA-CB	5.42	1.61	1.53
1	1L	82	ARG	CD-NE	5.42	1.53	1.46
1	if	66	MET	C-N	-5.42	1.27	1.33
1	ii	170	LYS	C-N	5.42	1.41	1.33
1	il	178	SER	CA-C	5.42	1.59	1.52
1	iO	80	TRP	CA-CB	5.42	1.61	1.53
1	iO	193	ASN	CA-C	5.42	1.59	1.52
1	jk	124	ILE	N-CA	-5.42	1.42	1.46
1	jm	229	ARG	N-CA	5.42	1.52	1.45
1	20	85	PRO	N-CA	-5.42	1.40	1.47
1	kc	153	ILE	CA-CB	5.42	1.60	1.54
1	kq	137	GLY	CA-C	-5.42	1.46	1.52
1	ky	62	HIS	CB-CG	5.42	1.57	1.50
1	kY	110	THR	CA-C	5.42	1.60	1.52
1	l1	21	ASN	CA-CB	5.42	1.61	1.53
1	ll	118	MET	CA-C	-5.42	1.45	1.52
1	lv	110	THR	N-CA	5.42	1.52	1.45
1	lA	181	VAL	C-N	5.42	1.41	1.33
1	2q	62	HIS	CE1-NE2	5.42	1.38	1.32
1	2T	215	MET	C-N	5.42	1.41	1.33
1	2X	188	THR	CA-CB	-5.42	1.43	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3u	80	TRP	CA-CB	5.42	1.61	1.53
1	3v	170	LYS	C-N	5.42	1.41	1.33
1	3E	227	LYS	CA-C	-5.42	1.45	1.52
1	3F	188	THR	N-CA	5.42	1.52	1.45
1	3P	160	PRO	N-CA	5.42	1.52	1.46
1	3U	74	ASN	N-CA	5.42	1.52	1.46
1	47	143	ARG	CD-NE	5.42	1.53	1.46
1	4J	170	LYS	CA-CB	5.42	1.61	1.53
1	5d	7	GLN	N-CA	5.42	1.53	1.46
1	5p	70	LYS	CA-CB	5.42	1.61	1.53
1	5y	1	PRO	N-CA	5.42	1.55	1.47
1	5C	93	PRO	N-CD	-5.42	1.40	1.47
1	5M	180	GLU	CA-C	5.42	1.59	1.52
1	5T	4	GLN	CA-CB	5.42	1.62	1.53
1	5T	172	LEU	C-N	5.42	1.41	1.33
1	6s	188	THR	N-CA	5.42	1.53	1.46
1	6I	230	VAL	C-N	5.42	1.41	1.33
1	6U	137	GLY	CA-C	-5.42	1.46	1.52
1	70	18	ARG	C-O	-5.42	1.17	1.24
1	7w	166	ASP	CA-C	5.42	1.59	1.52
1	7R	6	LEU	CA-CB	5.42	1.61	1.54
1	7Y	1	PRO	N-CD	5.42	1.55	1.47
1	83	37	ILE	CA-C	5.42	1.57	1.52
1	86	108	THR	N-CA	5.42	1.51	1.46
1	86	226	HIS	CA-C	-5.42	1.45	1.52
1	8d	100	ARG	N-CA	-5.42	1.39	1.45
1	8e	36	VAL	C-N	5.42	1.41	1.34
1	8m	190	LEU	CA-CB	5.42	1.62	1.53
1	8t	110	THR	C-N	5.42	1.40	1.33
1	9d	175	GLU	C-N	5.42	1.40	1.33
1	9k	191	VAL	CA-CB	5.42	1.60	1.54
1	9H	89	GLY	CA-C	5.42	1.59	1.51
1	9Y	12	HIS	CB-CG	5.42	1.57	1.50
1	aa	120	HIS	CB-CG	-5.42	1.42	1.50
1	aa	199	LYS	CA-CB	5.42	1.61	1.53
1	af	178	SER	CA-C	-5.42	1.45	1.53
1	as	100	ARG	C-N	5.42	1.40	1.33
1	aE	204	ALA	N-CA	-5.42	1.39	1.46
1	aO	176	GLN	N-CA	-5.42	1.39	1.46
1	be	74	ASN	CA-CB	5.42	1.62	1.53
1	bo	90	PRO	CA-CB	5.42	1.60	1.53
1	br	12	HIS	C-N	5.42	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bu	163	ASP	CA-CB	5.42	1.61	1.53
1	bL	120	HIS	C-N	5.42	1.41	1.33
1	1a	113	GLU	C-O	-5.42	1.17	1.24
1	bQ	40	PHE	C-N	5.42	1.40	1.33
1	bS	112	GLN	CA-CB	5.42	1.61	1.53
1	cl	115	ILE	C-N	-5.42	1.27	1.33
1	cs	64	ALA	C-O	-5.42	1.17	1.24
1	1j	183	ASN	C-N	5.42	1.41	1.33
1	dk	87	HIS	CD2-NE2	5.42	1.43	1.37
1	dn	150	ILE	N-CA	5.42	1.52	1.45
1	dZ	73	ILE	CA-CB	-5.42	1.47	1.54
1	ef	229	ARG	CA-C	-5.42	1.46	1.52
1	eq	58	THR	CA-C	5.42	1.60	1.52
1	er	90	PRO	CA-C	5.42	1.59	1.52
1	ey	98	GLU	CA-C	5.42	1.59	1.52
1	eR	163	ASP	CA-CB	5.42	1.61	1.53
1	f4	20	LEU	C-O	-5.42	1.17	1.24
1	fm	100	ARG	CD-NE	5.42	1.53	1.46
1	fo	120	HIS	ND1-CE1	5.42	1.38	1.32
1	fz	60	GLY	CA-C	-5.42	1.44	1.51
1	g5	51	ASP	N-CA	5.42	1.52	1.46
1	0	1	PRO	N-CA	5.42	1.55	1.47
1	D	93	PRO	C-N	5.42	1.40	1.33
1	M	9	GLN	CA-C	-5.42	1.46	1.53
1	4	98	GLU	CA-C	5.42	1.59	1.53
1	gA	168	PHE	CA-C	5.42	1.59	1.52
1	gC	185	MET	C-N	5.42	1.40	1.33
1	gM	22	ALA	CA-C	-5.42	1.46	1.52
1	gW	133	TRP	NE1-CE2	-5.42	1.31	1.37
1	hd	93	PRO	CA-CB	-5.42	1.46	1.53
1	hy	122	PRO	C-N	-5.42	1.27	1.33
1	hG	39	MET	CA-CB	5.42	1.61	1.53
1	ie	6	LEU	C-O	-5.42	1.17	1.24
1	iQ	29	GLU	N-CA	-5.42	1.40	1.46
1	k9	12	HIS	CE1-NE2	-5.42	1.27	1.32
1	l7	63	GLN	CA-C	-5.42	1.45	1.52
1	lx	87	HIS	CE1-NE2	5.42	1.38	1.32
1	lB	60	GLY	C-N	5.42	1.41	1.33
1	lN	120	HIS	ND1-CE1	5.42	1.38	1.32
1	2E	123	PRO	N-CA	5.42	1.53	1.47
1	2N	96	MET	CA-CB	5.42	1.62	1.53
1	2T	84	HIS	CG-CD2	-5.42	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3h	155	GLN	CA-CB	5.42	1.60	1.53
1	3O	103	ASP	N-CA	-5.42	1.39	1.46
1	3X	7	GLN	CA-C	-5.42	1.46	1.53
1	3X	158	LYS	N-CA	-5.42	1.39	1.46
1	43	11	VAL	CA-CB	-5.42	1.45	1.55
1	4k	87	HIS	CB-CG	5.42	1.57	1.50
1	5u	45	GLU	CA-C	5.42	1.60	1.52
1	5D	111	LEU	CA-C	5.42	1.59	1.52
1	6e	49	PRO	C-N	5.42	1.40	1.33
1	7H	141	ILE	N-CA	-5.42	1.40	1.46
1	8f	143	ARG	N-CA	-5.42	1.39	1.46
1	8w	61	GLY	C-N	5.42	1.41	1.33
1	8y	69	LEU	N-CA	-5.42	1.39	1.46
1	8K	2	ILE	CA-C	5.42	1.59	1.52
1	av	120	HIS	CA-C	5.42	1.60	1.52
1	aV	50	GLN	CA-C	5.42	1.59	1.52
1	b0	148	THR	C-N	5.42	1.41	1.33
1	bn	133	TRP	NE1-CE2	-5.42	1.31	1.37
1	cf	41	SER	N-CA	-5.42	1.39	1.46
1	cD	187	GLU	N-CA	-5.42	1.39	1.46
1	cW	12	HIS	CG-CD2	5.42	1.41	1.35
1	cX	52	LEU	N-CA	-5.42	1.40	1.46
1	d2	38	PRO	C-N	5.42	1.41	1.33
1	di	183	ASN	CA-C	5.42	1.59	1.52
1	dv	189	LEU	N-CA	5.42	1.53	1.46
1	dR	203	LYS	N-CA	-5.42	1.39	1.46
1	ef	187	GLU	CA-C	5.42	1.59	1.52
1	eJ	92	GLU	CA-CB	5.42	1.60	1.53
1	f1	65	ALA	CA-C	5.42	1.59	1.52
1	fo	55	MET	C-N	5.42	1.41	1.34
1	s	186	THR	C-N	5.42	1.41	1.33
1	4	12	HIS	CE1-NE2	5.42	1.38	1.32
1	gf	115	ILE	C-N	5.41	1.40	1.33
1	gt	84	HIS	ND1-CE1	5.41	1.38	1.32
1	gK	173	ARG	NE-CZ	5.41	1.39	1.33
1	gM	6	LEU	C-N	5.41	1.41	1.33
1	gP	178	SER	N-CA	5.41	1.52	1.46
1	gU	37	ILE	N-CA	-5.41	1.40	1.46
1	1J	163	ASP	N-CA	-5.41	1.39	1.46
1	hr	195	ASN	CA-C	-5.41	1.47	1.53
1	hs	121	ASN	CA-CB	5.41	1.59	1.53
1	hQ	18	ARG	N-CA	5.41	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hU	117	TRP	NE1-CE2	-5.41	1.31	1.37
1	hU	152	ASP	C-N	5.41	1.40	1.33
1	il	182	LYS	CA-C	5.41	1.59	1.52
1	iW	127	GLY	C-N	5.41	1.41	1.33
1	iX	21	ASN	CA-C	5.41	1.59	1.52
1	jz	160	PRO	N-CA	-5.41	1.40	1.47
1	jP	28	GLU	C-N	5.41	1.41	1.33
1	ks	126	VAL	C-N	5.41	1.41	1.33
1	lc	201	ILE	N-CA	5.41	1.52	1.46
1	lf	37	ILE	CA-CB	5.41	1.61	1.54
1	27	126	VAL	C-N	5.41	1.40	1.33
1	lA	212	GLU	N-CA	-5.41	1.40	1.46
1	lB	121	ASN	C-N	5.41	1.39	1.33
1	lD	212	GLU	CA-C	-5.41	1.46	1.52
1	lG	13	GLN	N-CA	-5.41	1.39	1.46
1	lH	56	LEU	C-O	5.41	1.30	1.24
1	2a	56	LEU	CA-CB	5.41	1.61	1.53
1	2j	229	ARG	CA-C	5.41	1.59	1.52
1	2y	226	HIS	CA-CB	5.41	1.62	1.53
1	2L	33	SER	C-N	5.41	1.40	1.33
1	2P	185	MET	N-CA	-5.41	1.39	1.46
1	2Q	132	ARG	CD-NE	5.41	1.53	1.46
1	2S	150	ILE	N-CA	-5.41	1.39	1.46
1	30	71	GLU	C-N	5.41	1.41	1.33
1	30	74	ASN	CA-C	-5.41	1.45	1.52
1	3o	34	PRO	C-N	5.41	1.41	1.33
1	3N	141	ILE	N-CA	5.41	1.52	1.46
1	3O	110	THR	C-N	5.41	1.41	1.33
1	4i	167	ARG	CD-NE	5.41	1.53	1.46
1	4E	120	HIS	CA-CB	5.41	1.61	1.53
1	4E	138	LEU	C-N	5.41	1.40	1.33
1	5e	18	ARG	C-N	5.41	1.41	1.33
1	5f	46	GLY	C-N	5.41	1.41	1.33
1	5j	173	ARG	CA-CB	5.41	1.61	1.53
1	5H	125	PRO	C-N	5.41	1.40	1.33
1	6e	60	GLY	C-O	-5.41	1.16	1.23
1	6f	118	MET	N-CA	5.41	1.53	1.45
1	6k	200	THR	N-CA	5.41	1.52	1.46
1	6l	4	GLN	C-N	5.41	1.41	1.33
1	6u	195	ASN	CA-C	5.41	1.59	1.53
1	6v	9	GLN	N-CA	5.41	1.52	1.46
1	7J	113	GLU	N-CA	5.41	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7O	7	GLN	CA-C	-5.41	1.45	1.52
1	7U	24	VAL	C-N	5.41	1.40	1.33
1	7V	228	ALA	N-CA	5.41	1.52	1.46
1	82	185	MET	N-CA	-5.41	1.39	1.46
1	84	178	SER	N-CA	-5.41	1.39	1.45
1	8d	11	VAL	CA-C	5.41	1.59	1.52
1	8L	25	LYS	CA-CB	5.41	1.61	1.53
1	8L	106	GLY	CA-C	-5.41	1.44	1.51
1	8W	229	ARG	CD-NE	5.41	1.53	1.46
1	94	208	ALA	N-CA	-5.41	1.38	1.46
1	99	17	PRO	C-N	5.41	1.41	1.33
1	9m	75	GLU	CA-C	-5.41	1.46	1.52
1	9B	129	ILE	CA-CB	-5.41	1.48	1.54
1	Y	39	MET	CA-C	5.41	1.59	1.52
1	9Y	93	PRO	CA-C	5.41	1.60	1.52
1	a3	73	ILE	C-N	5.41	1.40	1.33
1	aB	71	GLU	C-N	5.41	1.40	1.33
1	aR	73	ILE	C-N	5.41	1.41	1.33
1	aY	202	LEU	CB-CG	5.41	1.64	1.53
1	aZ	87	HIS	N-CA	5.41	1.53	1.46
1	b1	198	CYS	C-O	-5.41	1.17	1.24
1	bN	4	GLN	CA-CB	5.41	1.61	1.53
1	bW	176	GLN	CA-C	5.41	1.59	1.52
1	c3	196	PRO	CA-CB	-5.41	1.46	1.53
1	cd	148	THR	CA-C	-5.41	1.46	1.52
1	cr	133	TRP	CA-CB	5.41	1.61	1.53
1	ct	18	ARG	CD-NE	5.41	1.53	1.46
1	1h	169	TYR	C-N	5.41	1.41	1.33
1	cW	70	LYS	N-CA	5.41	1.52	1.46
1	dd	228	ALA	CA-C	5.41	1.59	1.52
1	dk	124	ILE	N-CA	-5.41	1.42	1.46
1	dz	175	GLU	CA-CB	5.41	1.63	1.53
1	dD	37	ILE	CA-CB	-5.41	1.51	1.54
1	dF	167	ARG	N-CA	-5.41	1.39	1.46
1	dN	28	GLU	CA-C	5.41	1.59	1.52
1	dN	149	SER	N-CA	5.41	1.52	1.45
1	dO	22	ALA	C-N	5.41	1.40	1.33
1	dT	167	ARG	C-N	5.41	1.40	1.33
1	eg	66	MET	N-CA	-5.41	1.39	1.46
1	eo	197	ASP	CA-C	-5.41	1.46	1.52
1	eC	123	PRO	N-CD	-5.41	1.40	1.47
1	eK	130	TYR	CA-CB	5.41	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f5	225	GLY	CA-C	5.41	1.59	1.51
1	fc	163	ASP	C-O	-5.41	1.17	1.24
1	fi	40	PHE	C-N	5.41	1.40	1.33
1	fu	157	PRO	CA-CB	5.41	1.61	1.53
1	fE	110	THR	N-CA	5.41	1.53	1.45
1	fG	21	ASN	CA-CB	5.41	1.61	1.53
1	fQ	152	ASP	CA-CB	5.41	1.60	1.53
1	g3	76	GLU	CA-CB	5.41	1.61	1.53
1	f	110	THR	C-N	5.41	1.41	1.33
1	L	170	LYS	CA-C	-5.41	1.46	1.52
1	4	175	GLU	CA-C	5.41	1.59	1.52
1	5	215	MET	N-CA	-5.41	1.39	1.46
1	6	111	LEU	N-CA	-5.41	1.39	1.46
1	7	95	GLN	C-N	5.41	1.40	1.33
1	9	214	MET	N-CA	-5.41	1.39	1.46
1	gm	30	LYS	CA-C	-5.41	1.45	1.52
1	1D	12	HIS	ND1-CE1	5.41	1.38	1.32
1	hc	10	MET	CA-CB	5.41	1.62	1.53
1	hl	100	ARG	CD-NE	5.41	1.53	1.46
1	hs	138	LEU	CA-CB	5.41	1.61	1.53
1	i7	165	VAL	N-CA	-5.41	1.40	1.46
1	jc	56	LEU	CA-CB	5.41	1.61	1.53
1	jj	87	HIS	ND1-CE1	5.41	1.38	1.32
1	jv	18	ARG	CD-NE	5.41	1.53	1.46
1	kA	135	ILE	CA-C	5.41	1.59	1.52
1	kL	205	LEU	CA-C	5.41	1.59	1.52
1	25	12	HIS	CB-CG	5.41	1.57	1.50
1	li	37	ILE	N-CA	5.41	1.53	1.46
1	ly	197	ASP	CA-C	5.41	1.59	1.52
1	2C	161	PHE	CA-C	-5.41	1.46	1.52
1	2O	206	GLY	N-CA	5.41	1.52	1.44
1	2P	130	TYR	CA-C	5.41	1.59	1.52
1	2Y	19	THR	N-CA	-5.41	1.39	1.46
1	3G	143	ARG	C-N	5.41	1.41	1.33
1	3H	220	GLY	C-N	5.41	1.41	1.33
1	48	109	SER	CA-C	-5.41	1.46	1.52
1	4g	39	MET	CA-CB	5.41	1.61	1.53
1	4n	173	ARG	CD-NE	5.41	1.53	1.46
1	5A	38	PRO	CA-CB	5.41	1.61	1.53
1	5N	74	ASN	CA-CB	5.41	1.61	1.53
1	62	103	ASP	C-N	5.41	1.40	1.33
1	63	90	PRO	N-CD	5.41	1.55	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6j	75	GLU	CA-C	5.41	1.59	1.52
1	75	72	THR	N-CA	5.41	1.52	1.46
1	7n	226	HIS	CB-CG	5.41	1.57	1.50
1	7r	179	GLN	CA-C	-5.41	1.45	1.52
1	7M	176	GLN	N-CA	5.41	1.53	1.45
1	8n	215	MET	CA-CB	5.41	1.62	1.53
1	ac	229	ARG	N-CA	5.41	1.52	1.46
1	ar	99	PRO	C-O	5.41	1.29	1.23
1	12	50	GLN	CA-C	5.41	1.59	1.52
1	aE	76	GLU	CA-CB	5.41	1.61	1.53
1	b4	29	GLU	CA-C	5.41	1.59	1.52
1	bo	210	THR	CA-CB	5.41	1.61	1.53
1	bu	183	ASN	N-CA	5.41	1.53	1.46
1	bB	152	ASP	C-O	-5.41	1.16	1.24
1	bL	130	TYR	CA-C	5.41	1.59	1.52
1	cF	143	ARG	C-N	5.41	1.41	1.34
1	dm	206	GLY	N-CA	5.41	1.52	1.44
1	1m	111	LEU	CA-C	-5.41	1.45	1.52
1	em	27	VAL	CA-C	-5.41	1.45	1.52
1	fM	67	GLN	N-CA	5.41	1.53	1.46
1	m	214	MET	CA-C	5.41	1.59	1.52
1	V	72	THR	N-CA	5.41	1.53	1.46
1	gk	143	ARG	CD-NE	5.41	1.53	1.46
1	gl	20	LEU	CA-C	5.41	1.59	1.52
1	gA	26	VAL	C-O	-5.41	1.18	1.24
1	h3	217	ALA	CA-C	-5.41	1.46	1.52
1	h7	111	LEU	C-N	5.41	1.41	1.33
1	hM	226	HIS	CB-CG	5.41	1.57	1.50
1	1M	199	LYS	CA-C	-5.41	1.45	1.52
1	hU	87	HIS	CA-CB	-5.41	1.45	1.53
1	hW	155	GLN	CA-CB	5.41	1.62	1.53
1	hX	12	HIS	CB-CG	5.41	1.57	1.50
1	i1	84	HIS	CG-ND1	5.41	1.44	1.38
1	ig	172	LEU	C-N	5.41	1.41	1.33
1	ii	99	PRO	CA-C	5.41	1.58	1.52
1	iA	210	THR	CB-OG1	5.41	1.52	1.43
1	iH	77	ALA	CA-C	5.41	1.59	1.52
1	iR	29	GLU	C-N	5.41	1.41	1.33
1	iV	179	GLN	C-N	5.41	1.41	1.33
1	jk	84	HIS	ND1-CE1	5.41	1.38	1.32
1	jS	112	GLN	N-CA	5.41	1.52	1.46
1	20	132	ARG	N-CA	5.41	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kb	59	VAL	CA-C	5.41	1.59	1.52
1	ke	12	HIS	CA-C	5.41	1.59	1.52
1	kr	173	ARG	CA-CB	5.41	1.61	1.53
1	ks	168	PHE	C-N	-5.41	1.26	1.33
1	ku	12	HIS	ND1-CE1	5.41	1.38	1.32
1	kD	34	PRO	CA-C	5.41	1.60	1.52
1	kP	69	LEU	CA-C	5.41	1.59	1.52
1	l6	1	PRO	C-N	5.41	1.38	1.33
1	lD	21	ASN	C-O	-5.41	1.17	1.24
1	lF	167	ARG	CD-NE	5.41	1.53	1.46
1	lJ	188	THR	C-N	5.41	1.41	1.34
1	2c	66	MET	C-N	5.41	1.41	1.33
1	2n	202	LEU	N-CA	-5.41	1.39	1.46
1	2u	24	VAL	N-CA	5.41	1.52	1.46
1	2A	78	ALA	C-N	5.41	1.41	1.33
1	2C	1	PRO	N-CA	5.41	1.55	1.47
1	2E	181	VAL	C-N	5.41	1.40	1.33
1	30	219	GLN	N-CA	-5.41	1.39	1.46
1	3G	64	ALA	CA-C	-5.41	1.46	1.52
1	3J	28	GLU	N-CA	-5.41	1.39	1.46
1	3Z	169	TYR	CA-C	5.41	1.59	1.52
1	44	185	MET	CA-CB	5.41	1.61	1.53
1	4q	152	ASP	CA-CB	5.41	1.61	1.53
1	4y	55	MET	CA-CB	5.41	1.61	1.53
1	4O	178	SER	C-N	5.41	1.41	1.34
1	4P	162	ARG	CD-NE	5.41	1.53	1.46
1	5k	55	MET	CA-C	-5.41	1.46	1.52
1	5t	67	GLN	N-CA	5.41	1.52	1.46
1	5y	173	ARG	CD-NE	5.41	1.53	1.46
1	65	174	ALA	N-CA	5.41	1.53	1.46
1	69	107	THR	N-CA	-5.41	1.39	1.46
1	6q	13	GLN	C-N	5.41	1.40	1.33
1	7a	12	HIS	ND1-CE1	5.41	1.38	1.32
1	7H	119	THR	CA-CB	-5.41	1.45	1.54
1	7Q	191	VAL	N-CA	5.41	1.52	1.46
1	7Q	195	ASN	CA-CB	5.41	1.61	1.53
1	8T	138	LEU	CA-C	-5.41	1.45	1.52
1	92	102	SER	C-N	5.41	1.41	1.33
1	9g	30	LYS	C-N	-5.41	1.26	1.33
1	9l	170	LYS	N-CA	5.41	1.53	1.46
1	9v	7	GLN	N-CA	5.41	1.53	1.46
1	9C	221	VAL	CA-CB	-5.41	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9H	25	LYS	CA-C	5.41	1.60	1.52
1	a1	187	GLU	C-N	-5.41	1.27	1.33
1	a5	111	LEU	CA-CB	5.41	1.61	1.53
1	10	228	ALA	N-CA	-5.41	1.39	1.45
1	ai	173	ARG	C-N	-5.41	1.26	1.33
1	as	51	ASP	N-CA	5.41	1.53	1.46
1	au	197	ASP	CA-C	5.41	1.60	1.52
1	aF	93	PRO	CA-CB	5.41	1.61	1.53
1	aP	200	THR	CA-C	-5.41	1.45	1.52
1	b4	47	ALA	N-CA	5.41	1.53	1.46
1	bh	176	GLN	CA-CB	5.41	1.62	1.53
1	bl	12	HIS	CA-C	5.41	1.60	1.52
1	bC	68	MET	CA-C	5.41	1.60	1.52
1	c0	26	VAL	CA-CB	-5.41	1.47	1.54
1	ca	221	VAL	N-CA	5.41	1.52	1.46
1	ci	226	HIS	CG-ND1	-5.41	1.32	1.38
1	ck	100	ARG	CA-C	5.41	1.60	1.53
1	ct	191	VAL	N-CA	5.41	1.53	1.46
1	cG	164	TYR	C-N	5.41	1.40	1.33
1	cQ	143	ARG	CD-NE	5.41	1.53	1.46
1	cW	133	TRP	N-CA	5.41	1.52	1.46
1	cW	136	LEU	CB-CG	5.41	1.64	1.53
1	d6	204	ALA	CA-CB	5.41	1.61	1.53
1	d8	162	ARG	CA-C	5.41	1.60	1.52
1	dg	209	ALA	N-CA	-5.41	1.39	1.46
1	e4	103	ASP	CA-CB	5.41	1.62	1.53
1	ef	161	PHE	CA-C	5.41	1.59	1.52
1	ep	141	ILE	N-CA	5.41	1.52	1.46
1	eF	49	PRO	C-N	-5.41	1.26	1.34
1	f7	36	VAL	C-N	5.41	1.39	1.33
1	f8	89	GLY	C-N	5.41	1.40	1.33
1	fq	112	GLN	CA-CB	5.41	1.61	1.53
1	fG	6	LEU	CA-CB	5.41	1.62	1.53
1	fG	18	ARG	CD-NE	5.41	1.53	1.46
1	fP	23	TRP	C-O	-5.41	1.17	1.24
1	1A	9	GLN	C-N	5.41	1.41	1.33
1	g0	62	HIS	CG-ND1	5.41	1.44	1.38
1	g5	80	TRP	N-CA	-5.41	1.39	1.46
1	0	207	PRO	N-CD	5.41	1.55	1.47
1	m	46	GLY	C-N	5.41	1.40	1.33
1	I	129	ILE	CA-CB	5.41	1.61	1.54
1	R	111	LEU	C-N	5.41	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gh	12	HIS	C-N	5.41	1.41	1.33
1	gj	162	ARG	N-CA	-5.41	1.39	1.46
1	gs	222	GLY	C-O	5.41	1.30	1.24
1	gK	20	LEU	CA-CB	5.41	1.61	1.53
1	gL	3	VAL	CA-C	5.41	1.59	1.52
1	gW	60	GLY	CA-C	-5.41	1.44	1.51
1	hc	141	ILE	CB-CG1	5.41	1.64	1.53
1	hq	32	PHE	CA-CB	5.41	1.60	1.53
1	hq	162	ARG	CD-NE	5.41	1.53	1.46
1	hx	130	TYR	CA-CB	5.41	1.61	1.53
1	hP	48	THR	C-N	5.41	1.42	1.33
1	i4	69	LEU	CA-C	-5.41	1.45	1.52
1	i4	219	GLN	CA-C	-5.41	1.45	1.52
1	ib	76	GLU	C-N	-5.41	1.27	1.33
1	id	212	GLU	CA-CB	-5.41	1.44	1.53
1	ie	208	ALA	C-N	5.41	1.40	1.33
1	iB	102	SER	CA-CB	5.41	1.61	1.53
1	iP	86	VAL	N-CA	-5.41	1.39	1.46
1	iT	140	LYS	CA-C	-5.41	1.46	1.52
1	jb	85	PRO	N-CA	-5.41	1.40	1.47
1	jj	201	ILE	CA-C	-5.41	1.46	1.52
1	jk	131	LYS	CA-CB	5.41	1.61	1.53
1	jG	26	VAL	C-N	5.41	1.40	1.33
1	jT	3	VAL	C-N	5.41	1.42	1.33
1	20	4	GLN	CA-C	5.41	1.60	1.52
1	kg	137	GLY	N-CA	5.41	1.52	1.45
1	lb	148	THR	C-N	5.41	1.40	1.33
1	lf	47	ALA	CA-CB	5.41	1.60	1.53
1	li	213	GLU	N-CA	-5.41	1.40	1.46
1	lw	18	ARG	CD-NE	5.41	1.53	1.46
1	2j	57	ASN	C-N	5.41	1.41	1.33
1	2B	33	SER	CA-C	-5.41	1.46	1.52
1	2F	168	PHE	N-CA	-5.41	1.39	1.46
1	2U	229	ARG	CA-CB	5.41	1.62	1.53
1	31	141	ILE	C-N	5.41	1.40	1.33
1	3N	100	ARG	C-N	5.41	1.41	1.33
1	3T	218	CYS	CA-CB	5.41	1.62	1.53
1	3U	141	ILE	CA-CB	-5.41	1.48	1.54
1	4s	134	ILE	CA-C	-5.41	1.46	1.52
1	4F	129	ILE	CA-CB	-5.41	1.48	1.54
1	4G	130	TYR	C-O	5.41	1.30	1.24
1	4W	72	THR	CA-C	-5.41	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5a	124	ILE	CA-C	5.41	1.57	1.53
1	5e	178	SER	CA-C	5.41	1.59	1.52
1	5i	197	ASP	C-O	-5.41	1.17	1.24
1	5l	169	TYR	C-N	5.41	1.41	1.34
1	5s	206	GLY	N-CA	5.41	1.52	1.44
1	5W	29	GLU	N-CA	5.41	1.53	1.46
1	6l	217	ALA	CA-C	5.41	1.59	1.52
1	6m	124	ILE	CA-CB	5.41	1.61	1.54
1	6p	134	ILE	C-N	5.41	1.40	1.33
1	6q	120	HIS	CG-CD2	-5.41	1.29	1.35
1	6U	162	ARG	CA-CB	5.41	1.61	1.53
1	7J	167	ARG	CD-NE	5.41	1.53	1.46
1	8h	227	LYS	CA-C	-5.41	1.45	1.52
1	8C	230	VAL	N-CA	-5.41	1.40	1.46
1	8K	109	SER	CA-C	5.41	1.59	1.52
1	94	151	LEU	C-N	5.41	1.41	1.33
1	97	4	GLN	N-CA	5.41	1.54	1.46
1	9k	12	HIS	CD2-NE2	5.41	1.43	1.37
1	9k	215	MET	N-CA	-5.41	1.39	1.46
1	9o	220	GLY	N-CA	5.41	1.52	1.45
1	9x	153	ILE	C-O	-5.41	1.17	1.23
1	9J	169	TYR	CA-CB	5.41	1.61	1.53
1	a4	73	ILE	CA-CB	-5.41	1.47	1.54
1	a8	166	ASP	CA-C	-5.41	1.45	1.52
1	aV	135	ILE	CA-C	-5.41	1.46	1.52
1	aY	201	ILE	CA-C	-5.41	1.46	1.52
1	b4	78	ALA	CA-CB	5.41	1.61	1.53
1	b7	171	THR	C-N	5.41	1.41	1.34
1	bD	226	HIS	CB-CG	5.41	1.57	1.50
1	bJ	171	THR	C-O	-5.41	1.17	1.24
1	c8	202	LEU	C-N	5.41	1.41	1.34
1	ck	37	ILE	C-N	-5.41	1.27	1.34
1	cy	214	MET	CA-CB	5.41	1.62	1.53
1	cF	130	TYR	C-N	5.41	1.41	1.33
1	cL	130	TYR	C-N	5.41	1.41	1.33
1	d0	23	TRP	CA-CB	5.41	1.61	1.53
1	1k	121	ASN	CA-CB	5.41	1.61	1.53
1	1o	229	ARG	N-CA	5.41	1.52	1.46
1	es	146	SER	CA-CB	5.41	1.61	1.53
1	ew	39	MET	CA-C	-5.41	1.45	1.52
1	eH	202	LEU	CA-CB	5.41	1.62	1.53
1	eI	44	SER	CA-CB	5.41	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eM	43	LEU	C-O	-5.41	1.17	1.24
1	eS	77	ALA	CA-CB	5.41	1.61	1.53
1	f9	210	THR	N-CA	5.41	1.52	1.46
1	ff	133	TRP	N-CA	-5.41	1.39	1.46
1	1w	207	PRO	CA-C	5.41	1.57	1.52
1	fo	222	GLY	N-CA	5.41	1.53	1.45
1	fs	166	ASP	CA-CB	5.41	1.61	1.53
1	fs	172	LEU	CA-CB	5.41	1.61	1.53
1	fK	173	ARG	CD-NE	5.41	1.53	1.46
1	fL	13	GLN	N-CA	-5.41	1.39	1.45
1	fR	79	GLU	CA-C	5.41	1.59	1.52
1	g2	180	GLU	CA-C	5.41	1.60	1.52
1	g4	173	ARG	CD-NE	5.41	1.53	1.46
1	g6	109	SER	N-CA	-5.41	1.39	1.46
1	g7	135	ILE	CA-CB	-5.41	1.47	1.54
1	j	16	SER	N-CA	-5.41	1.38	1.45
1	r	118	MET	CA-CB	5.41	1.61	1.53
1	F	95	GLN	N-CA	-5.41	1.39	1.45
1	M	184	TRP	CA-CB	5.41	1.61	1.53
1	O	39	MET	N-CA	-5.41	1.39	1.46
1	Q	229	ARG	CA-C	-5.41	1.46	1.53
1	W	35	GLU	CA-CB	5.41	1.62	1.53
1	ij	90	PRO	N-CA	-5.41	1.40	1.47
1	iN	129	ILE	CA-CB	-5.41	1.47	1.54
1	iS	193	ASN	N-CA	-5.41	1.39	1.46
1	j2	158	LYS	CA-CB	5.41	1.62	1.53
1	j6	146	SER	CA-CB	5.41	1.61	1.53
1	j8	161	PHE	C-N	5.41	1.40	1.33
1	jn	196	PRO	C-N	5.41	1.41	1.33
1	kZ	160	PRO	CA-CB	5.41	1.61	1.53
1	26	124	ILE	CA-C	5.41	1.57	1.53
1	lb	115	ILE	N-CA	-5.41	1.40	1.46
1	3Z	12	HIS	ND1-CE1	5.41	1.38	1.32
1	44	76	GLU	C-O	-5.41	1.17	1.24
1	4o	146	SER	CA-C	5.41	1.58	1.53
1	69	15	ILE	CA-C	-5.41	1.46	1.52
1	6d	180	GLU	CA-C	-5.41	1.46	1.52
1	9k	123	PRO	N-CA	5.41	1.54	1.47
1	ag	30	LYS	N-CA	-5.41	1.38	1.46
1	cb	55	MET	CA-C	5.41	1.59	1.52
1	cs	25	LYS	CA-C	5.41	1.59	1.52
1	cI	195	ASN	CA-CB	5.41	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cZ	87	HIS	C-N	5.41	1.41	1.33
1	df	63	GLN	N-CA	-5.41	1.39	1.46
1	e5	93	PRO	CA-CB	5.41	1.61	1.53
1	eJ	109	SER	CA-C	-5.41	1.46	1.52
1	f1	91	ILE	C-N	5.41	1.40	1.33
1	1v	203	LYS	CA-CB	5.41	1.62	1.53
1	fQ	173	ARG	CZ-NH2	-5.41	1.26	1.33
1	g7	62	HIS	CD2-NE2	5.41	1.43	1.37
1	u	101	GLY	C-N	-5.41	1.26	1.33
1	K	46	GLY	CA-C	5.41	1.58	1.51
1	6	220	GLY	CA-C	5.41	1.59	1.52
1	1C	211	LEU	CA-CB	5.41	1.61	1.53
1	gj	12	HIS	CD2-NE2	-5.41	1.31	1.37
1	gk	44	SER	CA-C	-5.41	1.45	1.52
1	go	90	PRO	C-N	5.41	1.40	1.33
1	gB	153	ILE	CA-C	5.41	1.59	1.52
1	gL	71	GLU	N-CA	-5.41	1.39	1.46
1	gT	119	THR	C-N	5.41	1.40	1.33
1	gU	131	LYS	CA-CB	5.41	1.61	1.53
1	gX	102	SER	N-CA	-5.41	1.39	1.46
1	ha	191	VAL	CA-CB	5.41	1.61	1.54
1	hb	101	GLY	CA-C	-5.41	1.46	1.52
1	hr	132	ARG	CD-NE	5.41	1.53	1.46
1	i3	193	ASN	C-N	5.41	1.40	1.33
1	i8	143	ARG	CZ-NH1	-5.41	1.25	1.32
1	ib	13	GLN	CA-C	-5.41	1.46	1.52
1	io	139	ASN	CA-CB	5.41	1.61	1.53
1	iq	46	GLY	CA-C	5.41	1.58	1.51
1	is	175	GLU	CA-C	5.41	1.59	1.52
1	iH	194	ALA	CA-C	5.41	1.59	1.52
1	je	124	ILE	N-CA	-5.41	1.40	1.46
1	jj	8	GLY	N-CA	5.41	1.51	1.45
1	jx	70	LYS	C-N	5.41	1.41	1.33
1	jL	213	GLU	C-N	-5.41	1.26	1.34
1	jU	74	ASN	C-N	5.41	1.41	1.33
1	ki	115	ILE	CA-CB	5.41	1.61	1.54
1	kr	226	HIS	ND1-CE1	5.41	1.38	1.32
1	22	168	PHE	CA-CB	5.41	1.62	1.53
1	ky	128	GLU	C-N	5.41	1.40	1.33
1	24	120	HIS	CA-C	-5.41	1.46	1.52
1	kV	4	GLN	CA-C	5.41	1.60	1.52
1	l0	196	PRO	CA-C	5.41	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	le	137	GLY	C-O	-5.41	1.17	1.23
1	lh	114	GLN	N-CA	-5.41	1.39	1.46
1	li	133	TRP	CA-C	5.41	1.59	1.52
1	lm	54	THR	N-CA	5.41	1.52	1.46
1	lo	23	TRP	CA-CB	5.41	1.61	1.53
1	lH	225	GLY	N-CA	-5.41	1.38	1.45
1	lI	138	LEU	CA-CB	5.41	1.61	1.53
1	lJ	185	MET	CA-CB	5.41	1.62	1.53
1	lM	150	ILE	CB-CG1	5.41	1.64	1.53
1	2y	65	ALA	CA-CB	5.41	1.61	1.53
1	2Q	230	VAL	N-CA	5.41	1.52	1.46
1	2R	54	THR	C-O	5.41	1.30	1.24
1	30	135	ILE	CB-CG1	5.41	1.64	1.53
1	32	99	PRO	C-N	5.41	1.41	1.33
1	38	203	LYS	C-N	5.41	1.41	1.34
1	3e	143	ARG	CD-NE	5.41	1.53	1.46
1	3o	162	ARG	CA-CB	5.41	1.61	1.53
1	3t	213	GLU	C-N	5.41	1.41	1.33
1	3z	156	GLY	N-CA	5.41	1.52	1.44
1	4o	212	GLU	CA-C	5.41	1.60	1.52
1	4t	27	VAL	CA-CB	-5.41	1.47	1.54
1	5b	44	SER	CA-C	-5.41	1.44	1.52
1	5T	146	SER	CA-C	5.41	1.58	1.52
1	6t	162	ARG	CA-CB	5.41	1.61	1.53
1	6u	169	TYR	CA-C	-5.41	1.45	1.52
1	6P	53	ASN	CA-CB	5.41	1.61	1.53
1	6S	119	THR	C-N	5.41	1.40	1.33
1	79	2	ILE	CA-CB	-5.41	1.47	1.54
1	7j	87	HIS	CG-ND1	5.41	1.44	1.38
1	7v	216	THR	C-N	5.41	1.40	1.33
1	7z	15	ILE	C-O	-5.41	1.18	1.24
1	7F	87	HIS	CA-C	-5.41	1.46	1.52
1	88	159	GLU	CA-C	5.41	1.58	1.52
1	89	45	GLU	C-O	-5.41	1.17	1.24
1	8l	125	PRO	N-CD	5.41	1.55	1.47
1	8X	90	PRO	CA-CB	-5.41	1.46	1.53
1	9d	124	ILE	CA-C	-5.41	1.48	1.53
1	9E	222	GLY	CA-C	-5.41	1.44	1.51
1	9I	171	THR	CB-OG1	-5.41	1.35	1.43
1	9O	200	THR	CA-C	-5.41	1.45	1.52
1	9V	58	THR	C-N	5.41	1.42	1.33
1	a1	92	GLU	CA-CB	5.41	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a2	228	ALA	CA-C	-5.41	1.46	1.52
1	10	86	VAL	N-CA	-5.41	1.40	1.46
1	10	173	ARG	C-N	5.41	1.41	1.33
1	ak	73	ILE	N-CA	-5.41	1.40	1.46
1	an	176	GLN	CA-CB	5.41	1.61	1.53
1	as	135	ILE	CA-C	-5.41	1.46	1.52
1	aA	51	ASP	CA-CB	5.41	1.61	1.53
1	13	80	TRP	CA-C	5.41	1.59	1.52
1	aH	66	MET	CA-CB	5.41	1.62	1.53
1	aJ	213	GLU	C-N	5.41	1.41	1.34
1	b1	215	MET	CA-C	5.41	1.60	1.52
1	bj	165	VAL	CA-C	5.41	1.59	1.52
1	bq	227	LYS	CA-CB	5.41	1.62	1.53
1	bw	187	GLU	C-O	5.41	1.30	1.24
1	1c	111	LEU	N-CA	-5.41	1.40	1.46
1	cl	47	ALA	N-CA	-5.41	1.39	1.46
1	cY	37	ILE	CA-C	5.41	1.57	1.52
1	d1	80	TRP	N-CA	5.41	1.52	1.46
1	d8	153	ILE	CA-CB	5.41	1.61	1.54
1	di	81	ASP	CA-C	5.41	1.60	1.52
1	dj	45	GLU	C-N	5.41	1.41	1.33
1	do	45	GLU	N-CA	-5.41	1.39	1.46
1	du	168	PHE	CA-CB	5.41	1.61	1.53
1	dv	63	GLN	CA-CB	5.41	1.61	1.53
1	dz	92	GLU	CA-CB	5.41	1.60	1.53
1	ei	74	ASN	CA-C	5.41	1.60	1.52
1	1s	69	LEU	C-O	5.41	1.30	1.24
1	eO	124	ILE	C-O	5.41	1.31	1.24
1	1t	87	HIS	CG-CD2	5.41	1.41	1.35
1	f1	50	GLN	CA-C	5.41	1.60	1.52
1	f7	58	THR	CA-C	5.41	1.60	1.52
1	fr	158	LYS	N-CA	5.41	1.52	1.46
1	fw	161	PHE	CA-C	5.41	1.59	1.52
1	fU	77	ALA	CA-CB	5.41	1.61	1.53
1	fY	190	LEU	C-N	5.41	1.40	1.33
1	g2	95	GLN	CA-C	5.41	1.59	1.52
1	g5	62	HIS	CE1-NE2	5.41	1.38	1.32
1	j	190	LEU	CA-CB	5.41	1.61	1.53
1	l	87	HIS	ND1-CE1	5.41	1.38	1.32
1	N	104	ILE	CA-CB	5.41	1.61	1.54
1	9	125	PRO	CA-C	-5.41	1.44	1.52
1	1G	182	LYS	CA-CB	5.40	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i4	58	THR	C-N	5.40	1.40	1.33
1	i8	112	GLN	C-N	5.40	1.41	1.33
1	ix	82	ARG	N-CA	5.40	1.52	1.46
1	1Q	36	VAL	CA-C	5.40	1.60	1.52
1	iG	49	PRO	C-N	5.40	1.40	1.33
1	iW	63	GLN	N-CA	5.40	1.52	1.46
1	jw	187	GLU	CA-CB	5.40	1.62	1.53
1	jC	155	GLN	N-CA	-5.40	1.39	1.46
1	jF	132	ARG	N-CA	-5.40	1.40	1.46
1	1Z	156	GLY	CA-C	5.40	1.59	1.51
1	k9	179	GLN	C-O	-5.40	1.17	1.24
1	22	111	LEU	C-O	-5.40	1.17	1.24
1	lb	229	ARG	CD-NE	5.40	1.53	1.46
1	lM	81	ASP	CA-C	5.40	1.60	1.52
1	2F	142	VAL	C-O	-5.40	1.17	1.24
1	2I	65	ALA	C-N	5.40	1.40	1.33
1	30	92	GLU	N-CA	-5.40	1.38	1.45
1	3a	99	PRO	C-N	5.40	1.40	1.33
1	3t	210	THR	CA-C	-5.40	1.45	1.52
1	3K	34	PRO	CA-CB	5.40	1.61	1.53
1	44	199	LYS	C-O	-5.40	1.17	1.24
1	55	133	TRP	CA-CB	5.40	1.61	1.53
1	6p	120	HIS	CB-CG	5.40	1.57	1.50
1	7p	195	ASN	N-CA	5.40	1.54	1.46
1	7x	12	HIS	CA-C	5.40	1.59	1.52
1	9A	12	HIS	CD2-NE2	5.40	1.43	1.37
1	av	117	TRP	NE1-CE2	-5.40	1.31	1.37
1	ay	62	HIS	CG-ND1	5.40	1.44	1.38
1	aR	7	GLN	CA-C	-5.40	1.46	1.53
1	aX	41	SER	CA-C	-5.40	1.45	1.52
1	bg	147	PRO	C-N	5.40	1.41	1.33
1	bn	3	VAL	N-CA	-5.40	1.39	1.46
1	d6	33	SER	CA-CB	5.40	1.62	1.53
1	dk	137	GLY	C-N	5.40	1.41	1.33
1	dE	208	ALA	CA-C	5.40	1.59	1.52
1	1m	207	PRO	CA-C	5.40	1.57	1.52
1	el	129	ILE	CA-C	5.40	1.59	1.52
1	fT	117	TRP	CA-CB	5.40	1.61	1.53
1	fW	66	MET	N-CA	5.40	1.52	1.46
1	q	132	ARG	C-N	5.40	1.40	1.33
1	X	202	LEU	CA-CB	5.40	1.61	1.53
1	gb	45	GLU	N-CA	-5.40	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gc	215	MET	CA-CB	5.40	1.62	1.53
1	gu	82	ARG	CA-C	5.40	1.60	1.52
1	1E	26	VAL	C-O	-5.40	1.18	1.24
1	gE	201	ILE	CA-CB	5.40	1.61	1.54
1	h8	196	PRO	C-N	5.40	1.41	1.33
1	hJ	91	ILE	C-N	5.40	1.40	1.33
1	iq	174	ALA	CA-C	5.40	1.60	1.52
1	iW	122	PRO	C-N	5.40	1.40	1.33
1	j6	29	GLU	N-CA	-5.40	1.39	1.46
1	je	88	ALA	C-N	5.40	1.41	1.33
1	jf	174	ALA	CA-C	5.40	1.59	1.52
1	jq	155	GLN	C-N	5.40	1.41	1.33
1	jw	93	PRO	C-N	5.40	1.39	1.33
1	jA	132	ARG	CZ-NH2	-5.40	1.26	1.33
1	jO	151	LEU	N-CA	5.40	1.52	1.46
1	jP	84	HIS	CA-C	-5.40	1.45	1.52
1	jY	219	GLN	N-CA	-5.40	1.40	1.46
1	k2	31	ALA	CA-CB	5.40	1.62	1.53
1	k4	210	THR	C-N	5.40	1.41	1.33
1	ki	6	LEU	N-CA	5.40	1.53	1.45
1	ki	226	HIS	ND1-CE1	5.40	1.38	1.32
1	kS	55	MET	C-N	5.40	1.41	1.33
1	26	154	ARG	CA-C	5.40	1.59	1.52
1	ln	31	ALA	N-CA	-5.40	1.38	1.46
1	lJ	34	PRO	C-N	5.40	1.41	1.33
1	lP	185	MET	CA-CB	5.40	1.61	1.53
1	lQ	184	TRP	CA-CB	5.40	1.61	1.53
1	2k	54	THR	C-N	5.40	1.41	1.33
1	2n	117	TRP	NE1-CE2	-5.40	1.31	1.37
1	2r	41	SER	N-CA	-5.40	1.40	1.46
1	2E	128	GLU	N-CA	5.40	1.52	1.46
1	2E	200	THR	C-O	-5.40	1.17	1.24
1	2W	78	ALA	CA-CB	5.40	1.61	1.53
1	3F	87	HIS	CG-CD2	-5.40	1.29	1.35
1	3L	186	THR	C-N	5.40	1.41	1.33
1	3M	23	TRP	N-CA	5.40	1.52	1.46
1	3U	206	GLY	CA-C	5.40	1.59	1.51
1	4b	176	GLN	N-CA	-5.40	1.39	1.46
1	4s	68	MET	N-CA	5.40	1.52	1.46
1	4y	54	THR	C-O	-5.40	1.17	1.24
1	4I	27	VAL	N-CA	-5.40	1.39	1.46
1	4X	170	LYS	C-N	5.40	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	56	168	PHE	CA-C	5.40	1.59	1.52
1	5v	99	PRO	CA-C	-5.40	1.46	1.52
1	5M	178	SER	CA-C	5.40	1.59	1.52
1	68	33	SER	CA-C	-5.40	1.47	1.52
1	6b	151	LEU	C-O	-5.40	1.17	1.24
1	6o	129	ILE	CA-CB	5.40	1.61	1.54
1	6D	120	HIS	CB-CG	5.40	1.57	1.50
1	6N	6	LEU	CA-C	5.40	1.60	1.52
1	6O	97	ARG	CD-NE	5.40	1.53	1.46
1	6O	120	HIS	ND1-CE1	5.40	1.38	1.32
1	6Z	197	ASP	N-CA	5.40	1.53	1.46
1	77	37	ILE	CA-CB	5.40	1.57	1.53
1	7v	32	PHE	CA-C	-5.40	1.45	1.52
1	7O	87	HIS	C-O	-5.40	1.17	1.24
1	82	151	LEU	CB-CG	5.40	1.64	1.53
1	88	195	ASN	CA-C	5.40	1.59	1.53
1	89	124	ILE	CA-CB	-5.40	1.47	1.54
1	8d	201	ILE	N-CA	-5.40	1.38	1.46
1	8n	210	THR	CA-CB	5.40	1.62	1.53
1	8q	151	LEU	CB-CG	5.40	1.64	1.53
1	8t	94	GLY	CA-C	5.40	1.59	1.51
1	9u	167	ARG	CZ-NH2	-5.40	1.26	1.33
1	9W	201	ILE	CA-CB	5.40	1.60	1.54
1	10	99	PRO	CA-CB	5.40	1.61	1.53
1	ac	64	ALA	N-CA	5.40	1.53	1.46
1	11	119	THR	N-CA	5.40	1.52	1.46
1	aw	229	ARG	NE-CZ	5.40	1.39	1.33
1	aC	56	LEU	CA-CB	5.40	1.61	1.53
1	aJ	37	ILE	CA-CB	5.40	1.56	1.54
1	aK	152	ASP	C-O	-5.40	1.17	1.24
1	aW	58	THR	N-CA	5.40	1.53	1.46
1	15	26	VAL	CA-C	5.40	1.59	1.52
1	b5	229	ARG	CA-C	5.40	1.60	1.52
1	16	146	SER	CA-CB	-5.40	1.44	1.53
1	b8	211	LEU	C-N	5.40	1.41	1.33
1	bn	161	PHE	CA-C	5.40	1.59	1.52
1	bp	223	GLY	C-N	5.40	1.39	1.33
1	cf	179	GLN	N-CA	5.40	1.52	1.46
1	1e	53	ASN	C-O	-5.40	1.17	1.24
1	cA	67	GLN	CA-C	5.40	1.59	1.52
1	dd	180	GLU	C-N	5.40	1.40	1.33
1	df	72	THR	CA-C	-5.40	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dr	117	TRP	N-CA	-5.40	1.39	1.46
1	dJ	121	ASN	C-O	-5.40	1.18	1.24
1	dM	137	GLY	C-N	5.40	1.41	1.34
1	ej	86	VAL	CA-C	5.40	1.58	1.52
1	ej	228	ALA	CA-CB	5.40	1.61	1.53
1	eu	129	ILE	C-N	5.40	1.40	1.33
1	eD	95	GLN	CA-CB	5.40	1.62	1.53
1	eE	181	VAL	CA-CB	5.40	1.61	1.54
1	eH	82	ARG	C-O	-5.40	1.17	1.24
1	eX	75	GLU	CA-CB	5.40	1.61	1.53
1	f7	124	ILE	CA-C	5.40	1.57	1.53
1	1v	162	ARG	N-CA	-5.40	1.40	1.46
1	fo	175	GLU	CA-C	5.40	1.59	1.52
1	fB	206	GLY	N-CA	5.40	1.52	1.44
1	fF	66	MET	CA-C	5.40	1.60	1.52
1	fI	208	ALA	CA-C	5.40	1.59	1.52
1	fS	194	ALA	CA-C	-5.40	1.45	1.52
1	1B	86	VAL	CA-CB	-5.40	1.47	1.54
1	h	162	ARG	CZ-NH2	-5.40	1.26	1.33
1	F	173	ARG	CA-CB	5.40	1.61	1.53
1	K	133	TRP	CA-C	5.40	1.59	1.52
1	gh	25	LYS	CA-C	5.40	1.60	1.52
1	gl	221	VAL	CA-CB	-5.40	1.48	1.54
1	go	12	HIS	CA-C	5.40	1.60	1.52
1	gp	120	HIS	CD2-NE2	5.40	1.43	1.37
1	gF	53	ASN	C-N	5.40	1.40	1.33
1	h2	111	LEU	N-CA	-5.40	1.39	1.46
1	hb	32	PHE	C-O	-5.40	1.16	1.24
1	hm	104	ILE	C-O	-5.40	1.17	1.24
1	hM	145	TYR	CA-CB	5.40	1.62	1.53
1	i0	192	GLN	CA-CB	5.40	1.61	1.53
1	id	148	THR	C-N	5.40	1.41	1.33
1	im	108	THR	CA-C	-5.40	1.45	1.52
1	iF	37	ILE	CA-C	5.40	1.57	1.52
1	iL	211	LEU	CA-C	5.40	1.59	1.52
1	iT	162	ARG	N-CA	-5.40	1.39	1.46
1	jc	224	PRO	N-CA	-5.40	1.40	1.47
1	jI	135	ILE	C-N	5.40	1.40	1.33
1	jL	212	GLU	C-N	5.40	1.40	1.33
1	jN	87	HIS	ND1-CE1	5.40	1.38	1.32
1	jY	140	LYS	CA-C	5.40	1.59	1.52
1	kf	94	GLY	N-CA	5.40	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kf	128	GLU	N-CA	-5.40	1.39	1.46
1	ki	111	LEU	CA-C	5.40	1.60	1.52
1	kK	108	THR	CA-CB	-5.40	1.44	1.53
1	24	74	ASN	N-CA	5.40	1.53	1.46
1	lj	51	ASP	C-N	5.40	1.41	1.33
1	29	87	HIS	CA-C	-5.40	1.46	1.52
1	2t	11	VAL	C-O	-5.40	1.18	1.24
1	2u	22	ALA	CA-C	5.40	1.59	1.52
1	2T	139	ASN	C-O	-5.40	1.17	1.24
1	3f	225	GLY	C-N	5.40	1.40	1.33
1	3q	184	TRP	N-CA	-5.40	1.40	1.46
1	3s	213	GLU	C-N	5.40	1.41	1.34
1	3I	80	TRP	C-N	-5.40	1.26	1.34
1	3L	216	THR	C-N	5.40	1.41	1.33
1	3X	89	GLY	CA-C	5.40	1.59	1.51
1	45	164	TYR	CA-C	5.40	1.59	1.52
1	4r	16	SER	CA-C	5.40	1.59	1.53
1	4z	60	GLY	CA-C	-5.40	1.44	1.51
1	4B	212	GLU	CA-C	-5.40	1.45	1.52
1	4I	145	TYR	N-CA	-5.40	1.39	1.46
1	5L	43	LEU	CA-CB	5.40	1.62	1.53
1	5S	121	ASN	CA-CB	5.40	1.63	1.53
1	62	107	THR	N-CA	5.40	1.53	1.46
1	65	37	ILE	N-CA	5.40	1.53	1.46
1	6b	141	ILE	CA-CB	-5.40	1.47	1.54
1	6h	59	VAL	C-O	5.40	1.29	1.24
1	6h	226	HIS	CG-CD2	5.40	1.41	1.35
1	6A	144	MET	CA-C	5.40	1.59	1.52
1	7l	126	VAL	CA-CB	5.40	1.61	1.54
1	7n	226	HIS	CG-ND1	-5.40	1.32	1.38
1	7K	176	GLN	N-CA	-5.40	1.39	1.46
1	8g	103	ASP	CA-CB	5.40	1.62	1.53
1	8h	226	HIS	CB-CG	5.40	1.57	1.50
1	8q	174	ALA	C-N	5.40	1.40	1.33
1	8H	117	TRP	NE1-CE2	5.40	1.43	1.37
1	8I	218	CYS	CA-CB	5.40	1.61	1.53
1	8K	228	ALA	C-N	5.40	1.41	1.33
1	8Z	39	MET	CA-C	-5.40	1.45	1.52
1	94	145	TYR	CA-C	5.40	1.57	1.52
1	9c	25	LYS	CA-CB	5.40	1.62	1.53
1	9h	148	THR	N-CA	5.40	1.53	1.46
1	9j	131	LYS	C-O	5.40	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9l	80	TRP	N-CA	-5.40	1.39	1.46
1	9l	91	ILE	N-CA	5.40	1.52	1.46
1	9q	165	VAL	CA-CB	5.40	1.60	1.54
1	9r	133	TRP	NE1-CE2	-5.40	1.31	1.37
1	9t	65	ALA	N-CA	-5.40	1.40	1.46
1	9T	143	ARG	CZ-NH2	-5.40	1.26	1.33
1	ae	30	LYS	N-CA	-5.40	1.39	1.46
1	au	90	PRO	CA-CB	5.40	1.60	1.53
1	au	124	ILE	CA-CB	-5.40	1.48	1.53
1	au	202	LEU	C-N	5.40	1.41	1.33
1	bA	74	ASN	C-O	-5.40	1.17	1.24
1	bB	196	PRO	CA-CB	-5.40	1.46	1.53
1	bT	75	GLU	CA-C	5.40	1.60	1.52
1	c3	167	ARG	CA-CB	5.40	1.61	1.53
1	c9	173	ARG	CD-NE	5.40	1.53	1.46
1	cj	199	LYS	C-N	5.40	1.41	1.33
1	cJ	23	TRP	CA-C	5.40	1.60	1.52
1	cK	15	ILE	CA-C	5.40	1.59	1.52
1	cN	95	GLN	CD-NE2	5.40	1.44	1.33
1	df	82	ARG	CD-NE	5.40	1.53	1.46
1	dn	87	HIS	CG-CD2	5.40	1.41	1.35
1	dA	53	ASN	C-N	5.40	1.41	1.33
1	dJ	159	GLU	N-CA	5.40	1.52	1.45
1	dP	175	GLU	N-CA	5.40	1.52	1.46
1	dR	120	HIS	N-CA	-5.40	1.39	1.46
1	eJ	118	MET	CA-CB	5.40	1.63	1.53
1	eK	112	GLN	CA-CB	5.40	1.61	1.53
1	1w	146	SER	C-N	5.40	1.40	1.33
1	fz	31	ALA	CA-CB	5.40	1.61	1.53
1	fH	97	ARG	CD-NE	5.40	1.53	1.46
1	fO	23	TRP	N-CA	5.40	1.52	1.46
1	fQ	35	GLU	C-N	5.40	1.40	1.34
1	fU	58	THR	CB-OG1	-5.40	1.35	1.43
1	fV	59	VAL	C-N	5.40	1.41	1.33
1	g5	110	THR	N-CA	-5.40	1.38	1.45
1	r	134	ILE	CA-CB	5.40	1.61	1.54
1	A	216	THR	CA-C	-5.40	1.45	1.52
1	S	141	ILE	CA-C	5.40	1.59	1.52
1	X	18	ARG	C-N	5.40	1.40	1.33
1	7	122	PRO	C-N	-5.40	1.26	1.33
1	g9	187	GLU	C-N	5.40	1.40	1.33
1	hr	193	ASN	CA-CB	5.40	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hA	21	ASN	CA-C	5.40	1.59	1.52
1	id	210	THR	CB-OG1	5.40	1.52	1.43
1	ig	41	SER	CA-C	5.40	1.59	1.52
1	it	204	ALA	N-CA	-5.40	1.40	1.46
1	iL	36	VAL	N-CA	5.40	1.52	1.46
1	iW	173	ARG	N-CA	-5.40	1.39	1.46
1	j1	113	GLU	CA-C	5.40	1.59	1.52
1	kr	199	LYS	N-CA	5.40	1.53	1.45
1	kF	137	GLY	CA-C	-5.40	1.46	1.52
1	kY	205	LEU	N-CA	-5.40	1.39	1.46
1	l2	63	GLN	CA-CB	-5.40	1.44	1.53
1	lC	31	ALA	CA-C	5.40	1.60	1.52
1	lP	132	ARG	C-N	5.40	1.41	1.33
1	2M	82	ARG	CA-C	-5.40	1.45	1.52
1	3I	159	GLU	CA-CB	5.40	1.61	1.53
1	3I	219	GLN	N-CA	5.40	1.53	1.46
1	3W	208	ALA	C-N	5.40	1.41	1.33
1	49	215	MET	N-CA	-5.40	1.39	1.46
1	4i	33	SER	CA-C	5.40	1.58	1.53
1	54	197	ASP	N-CA	-5.40	1.39	1.46
1	5k	98	GLU	C-N	-5.40	1.28	1.33
1	5l	142	VAL	CA-C	5.40	1.59	1.52
1	6k	136	LEU	CA-CB	5.40	1.61	1.53
1	6D	201	ILE	CB-CG1	5.40	1.64	1.53
1	7l	112	GLN	N-CA	5.40	1.52	1.46
1	7r	98	GLU	CA-C	5.40	1.59	1.52
1	7C	227	LYS	C-N	5.40	1.41	1.33
1	82	85	PRO	N-CA	5.40	1.53	1.47
1	89	44	SER	CA-CB	5.40	1.62	1.53
1	8t	17	PRO	CA-CB	5.40	1.61	1.53
1	9b	207	PRO	CA-C	-5.40	1.46	1.52
1	9p	35	GLU	N-CA	-5.40	1.38	1.46
1	9z	11	VAL	N-CA	-5.40	1.40	1.46
1	9E	9	GLN	CA-CB	5.40	1.62	1.53
1	aj	49	PRO	CA-CB	5.40	1.62	1.53
1	ao	223	GLY	CA-C	-5.40	1.44	1.51
1	14	145	TYR	N-CA	-5.40	1.40	1.46
1	b2	51	ASP	N-CA	5.40	1.52	1.46
1	bG	3	VAL	C-N	5.40	1.40	1.33
1	1d	111	LEU	N-CA	5.40	1.52	1.46
1	cg	39	MET	C-N	5.40	1.41	1.33
1	da	195	ASN	N-CA	-5.40	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1m	201	ILE	CA-CB	5.40	1.61	1.54
1	ei	67	GLN	CA-CB	5.40	1.61	1.53
1	ej	36	VAL	CA-C	-5.40	1.44	1.52
1	fd	143	ARG	CD-NE	5.40	1.53	1.46
1	1	126	VAL	C-N	5.40	1.41	1.33
1	m	213	GLU	C-N	5.40	1.40	1.33
1	W	202	LEU	C-N	5.40	1.40	1.33
1	1C	148	THR	N-CA	5.40	1.53	1.46
1	gi	71	GLU	CA-CB	5.40	1.61	1.53
1	gn	89	GLY	N-CA	5.40	1.52	1.44
1	gr	30	LYS	C-N	5.40	1.41	1.33
1	gJ	7	GLN	CA-C	5.40	1.60	1.52
1	gT	112	GLN	CA-C	5.40	1.59	1.52
1	gV	219	GLN	C-N	5.40	1.40	1.33
1	h9	99	PRO	CA-C	-5.40	1.45	1.52
1	hh	229	ARG	NE-CZ	5.40	1.39	1.33
1	hL	157	PRO	N-CA	-5.40	1.40	1.47
1	hT	12	HIS	CG-CD2	5.40	1.41	1.35
1	i6	117	TRP	C-N	5.40	1.41	1.34
1	il	141	ILE	N-CA	-5.40	1.40	1.46
1	io	173	ARG	CA-C	-5.40	1.45	1.52
1	iM	132	ARG	CD-NE	5.40	1.53	1.46
1	iO	198	CYS	CA-CB	5.40	1.62	1.53
1	iR	109	SER	CA-C	-5.40	1.46	1.52
1	j6	80	TRP	CE2-CZ2	-5.40	1.28	1.39
1	jf	13	GLN	CA-C	5.40	1.58	1.52
1	jf	32	PHE	CA-C	5.40	1.59	1.53
1	js	227	LYS	CA-C	5.40	1.59	1.52
1	jD	157	PRO	CA-C	-5.40	1.43	1.52
1	kl	168	PHE	CG-CD2	5.40	1.50	1.38
1	ky	151	LEU	CA-CB	5.40	1.61	1.53
1	23	224	PRO	CA-C	-5.40	1.44	1.52
1	kN	165	VAL	CA-CB	-5.40	1.47	1.54
1	24	92	GLU	CD-OE2	5.40	1.35	1.25
1	kQ	43	LEU	CA-CB	5.40	1.62	1.53
1	l3	205	LEU	CA-CB	5.40	1.62	1.53
1	ld	115	ILE	C-O	5.40	1.30	1.24
1	le	229	ARG	CZ-NH2	-5.40	1.26	1.33
1	lo	148	THR	C-N	5.40	1.40	1.33
1	lG	84	HIS	CD2-NE2	5.40	1.43	1.37
1	lN	7	GLN	CA-CB	5.40	1.62	1.53
1	lQ	28	GLU	CA-CB	5.40	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2G	54	THR	C-O	-5.40	1.17	1.24
1	2M	121	ASN	CA-C	-5.40	1.45	1.52
1	2R	139	ASN	N-CA	5.40	1.52	1.46
1	3F	125	PRO	CA-C	-5.40	1.44	1.52
1	3F	199	LYS	N-CA	5.40	1.53	1.46
1	3G	71	GLU	CA-C	-5.40	1.46	1.52
1	3T	153	ILE	CA-C	-5.40	1.46	1.52
1	4a	190	LEU	C-N	-5.40	1.27	1.33
1	4m	4	GLN	CA-CB	5.40	1.61	1.53
1	4p	144	MET	C-N	5.40	1.41	1.33
1	4s	156	GLY	CA-C	5.40	1.59	1.51
1	5R	97	ARG	CZ-NH2	5.40	1.40	1.33
1	5U	213	GLU	C-N	5.40	1.41	1.33
1	6o	197	ASP	CA-C	5.40	1.59	1.52
1	6K	4	GLN	CA-C	5.40	1.60	1.52
1	6W	4	GLN	C-N	5.40	1.40	1.33
1	71	184	TRP	NE1-CE2	5.40	1.43	1.37
1	7e	148	THR	CA-CB	-5.40	1.44	1.53
1	7h	29	GLU	CA-C	-5.40	1.46	1.52
1	7j	100	ARG	CA-C	-5.40	1.45	1.53
1	7B	82	ARG	C-N	5.40	1.41	1.33
1	85	88	ALA	CA-C	5.40	1.59	1.52
1	88	95	GLN	CA-C	5.40	1.60	1.53
1	8h	34	PRO	CA-CB	5.40	1.61	1.53
1	8i	157	PRO	C-O	-5.40	1.18	1.24
1	8r	196	PRO	CA-CB	5.40	1.61	1.53
1	8t	121	ASN	N-CA	5.40	1.54	1.46
1	8F	134	ILE	C-N	5.40	1.40	1.33
1	8K	63	GLN	N-CA	-5.40	1.39	1.46
1	8S	123	PRO	C-N	5.40	1.38	1.33
1	8Y	34	PRO	N-CD	5.40	1.55	1.47
1	9a	82	ARG	CA-C	5.40	1.59	1.52
1	9b	230	VAL	CA-CB	-5.40	1.47	1.54
1	9d	82	ARG	CD-NE	5.40	1.53	1.46
1	9w	125	PRO	CA-CB	5.40	1.61	1.53
1	9V	92	GLU	CA-CB	5.40	1.60	1.54
1	a1	226	HIS	CE1-NE2	-5.40	1.27	1.32
1	ak	124	ILE	CA-CB	5.40	1.60	1.54
1	av	182	LYS	N-CA	-5.40	1.39	1.46
1	bs	23	TRP	C-N	-5.40	1.28	1.34
1	bB	67	GLN	N-CA	5.40	1.52	1.46
1	bD	82	ARG	CA-C	5.40	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bK	86	VAL	C-N	5.40	1.41	1.33
1	1e	132	ARG	CD-NE	5.40	1.53	1.46
1	d2	99	PRO	CA-C	5.40	1.58	1.52
1	1l	125	PRO	C-N	5.40	1.39	1.34
1	eh	99	PRO	N-CD	-5.40	1.40	1.47
1	eC	150	ILE	N-CA	-5.40	1.39	1.46
1	eM	6	LEU	N-CA	-5.40	1.39	1.46
1	f1	97	ARG	CD-NE	5.40	1.53	1.46
1	ff	68	MET	CA-CB	5.40	1.61	1.53
1	fi	38	PRO	CA-C	-5.40	1.44	1.52
1	1x	143	ARG	CA-C	5.40	1.60	1.52
1	fA	120	HIS	ND1-CE1	5.40	1.38	1.32
1	fF	73	ILE	CA-C	-5.40	1.45	1.52
1	g	60	GLY	C-N	5.40	1.40	1.33
1	k	220	GLY	C-N	5.40	1.40	1.33
1	v	18	ARG	CZ-NH2	-5.40	1.26	1.33
1	J	91	ILE	N-CA	-5.40	1.39	1.45
1	R	36	VAL	N-CA	-5.40	1.39	1.46
1	gV	199	LYS	CA-CB	5.40	1.61	1.53
1	hA	40	PHE	CA-CB	5.40	1.61	1.53
1	1L	102	SER	C-N	5.40	1.41	1.34
1	hM	185	MET	N-CA	5.40	1.52	1.46
1	1M	114	GLN	C-O	5.40	1.30	1.24
1	il	128	GLU	CA-CB	5.40	1.61	1.53
1	jc	199	LYS	CA-C	5.40	1.60	1.52
1	ka	75	GLU	CA-C	5.40	1.59	1.52
1	kb	156	GLY	C-N	5.40	1.40	1.34
1	kY	70	LYS	CA-C	5.40	1.59	1.52
1	l7	40	PHE	CA-C	5.40	1.59	1.52
1	lm	15	ILE	CA-C	-5.40	1.45	1.52
1	lm	100	ARG	CA-CB	5.40	1.61	1.53
1	2e	60	GLY	C-N	5.40	1.41	1.33
1	2v	193	ASN	CA-C	-5.40	1.46	1.53
1	2V	128	GLU	CA-C	5.40	1.59	1.52
1	33	139	ASN	CA-C	-5.40	1.45	1.52
1	3M	33	SER	CA-C	5.40	1.58	1.52
1	3U	154	ARG	CD-NE	5.40	1.53	1.46
1	46	230	VAL	C-O	-5.40	1.17	1.23
1	49	222	GLY	C-N	5.40	1.41	1.33
1	4q	153	ILE	CA-C	5.40	1.58	1.52
1	4Y	219	GLN	CA-CB	5.40	1.59	1.53
1	50	51	ASP	N-CA	-5.40	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	51	184	TRP	CA-C	5.40	1.59	1.52
1	5j	148	THR	N-CA	5.40	1.52	1.45
1	65	144	MET	CA-CB	5.40	1.61	1.53
1	6E	41	SER	CA-C	5.40	1.59	1.52
1	7n	169	TYR	C-O	-5.40	1.17	1.24
1	7o	176	GLN	C-N	5.40	1.40	1.33
1	84	34	PRO	N-CA	-5.40	1.40	1.47
1	9q	208	ALA	C-N	-5.40	1.25	1.33
1	9W	175	GLU	CA-C	5.40	1.60	1.52
1	a4	107	THR	N-CA	-5.40	1.39	1.46
1	aT	141	ILE	CA-C	-5.40	1.46	1.52
1	aT	231	LEU	CB-CG	5.40	1.64	1.53
1	bV	18	ARG	N-CA	5.40	1.52	1.46
1	1b	96	MET	CA-C	5.40	1.59	1.52
1	bX	191	VAL	CA-CB	-5.40	1.47	1.54
1	ch	176	GLN	CA-C	-5.40	1.47	1.53
1	du	63	GLN	C-N	5.40	1.40	1.33
1	dQ	203	LYS	C-N	5.40	1.41	1.33
1	el	143	ARG	CD-NE	5.40	1.53	1.46
1	ev	226	HIS	CA-C	-5.40	1.47	1.52
1	ex	83	LEU	CB-CG	5.40	1.64	1.53
1	eD	10	MET	C-N	5.40	1.41	1.33
1	eE	114	GLN	C-N	5.40	1.40	1.34
1	eV	30	LYS	CA-C	5.40	1.60	1.52
1	fd	226	HIS	CA-CB	5.40	1.62	1.53
1	fn	109	SER	N-CA	5.40	1.52	1.45
1	fz	115	ILE	C-N	5.40	1.40	1.33
1	fI	84	HIS	CE1-NE2	-5.40	1.27	1.32
1	2	26	VAL	C-O	-5.40	1.17	1.24
1	A	125	PRO	N-CA	-5.40	1.40	1.47
1	7	212	GLU	C-N	5.40	1.41	1.33
1	gz	165	VAL	C-O	-5.39	1.18	1.24
1	gG	82	ARG	CD-NE	5.39	1.53	1.46
1	gI	158	LYS	CA-CB	5.39	1.61	1.53
1	h3	113	GLU	CA-C	-5.39	1.46	1.52
1	h8	102	SER	CA-CB	-5.39	1.44	1.53
1	h8	110	THR	CA-C	-5.39	1.46	1.53
1	hf	88	ALA	CA-C	-5.39	1.45	1.52
1	hh	136	LEU	C-N	5.39	1.40	1.33
1	hm	12	HIS	ND1-CE1	5.39	1.38	1.32
1	hn	25	LYS	N-CA	-5.39	1.39	1.46
1	ht	229	ARG	CA-C	-5.39	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hB	114	GLN	CG-CD	5.39	1.65	1.52
1	hQ	221	VAL	N-CA	5.39	1.53	1.46
1	i7	69	LEU	N-CA	-5.39	1.40	1.46
1	ih	101	GLY	C-N	5.39	1.41	1.34
1	il	2	ILE	CA-C	-5.39	1.46	1.52
1	il	12	HIS	ND1-CE1	5.39	1.38	1.32
1	is	199	LYS	CA-CB	5.39	1.61	1.53
1	j0	165	VAL	C-N	-5.39	1.26	1.33
1	j0	221	VAL	N-CA	5.39	1.53	1.46
1	j6	92	GLU	CA-C	5.39	1.59	1.53
1	jh	226	HIS	CG-CD2	5.39	1.41	1.35
1	jp	49	PRO	CA-CB	5.39	1.61	1.53
1	js	4	GLN	CA-CB	5.39	1.62	1.53
1	jw	90	PRO	CA-C	-5.39	1.45	1.52
1	jx	36	VAL	CA-CB	5.39	1.62	1.54
1	jC	229	ARG	CD-NE	5.39	1.53	1.46
1	jY	84	HIS	CA-C	5.39	1.58	1.52
1	kc	12	HIS	CG-ND1	5.39	1.44	1.38
1	kh	154	ARG	CD-NE	5.39	1.53	1.46
1	kA	73	ILE	CA-C	5.39	1.60	1.52
1	kD	140	LYS	C-N	5.39	1.40	1.33
1	23	134	ILE	CA-CB	5.39	1.61	1.54
1	kE	212	GLU	CA-CB	5.39	1.62	1.53
1	kR	13	GLN	C-N	5.39	1.40	1.33
1	lj	27	VAL	N-CA	5.39	1.53	1.46
1	lE	132	ARG	C-N	-5.39	1.26	1.33
1	lN	50	GLN	N-CA	-5.39	1.39	1.46
1	2v	203	LYS	CA-C	5.39	1.59	1.52
1	2E	69	LEU	CA-C	5.39	1.59	1.52
1	2W	221	VAL	CA-C	-5.39	1.46	1.52
1	30	197	ASP	CA-C	5.39	1.59	1.52
1	3X	147	PRO	CA-CB	5.39	1.61	1.53
1	41	63	GLN	CA-C	5.39	1.60	1.52
1	47	124	ILE	CA-C	5.39	1.57	1.53
1	4l	87	HIS	CE1-NE2	5.39	1.38	1.32
1	4t	226	HIS	ND1-CE1	5.39	1.38	1.32
1	5d	18	ARG	CA-CB	5.39	1.61	1.53
1	5g	132	ARG	CA-C	5.39	1.59	1.52
1	5m	28	GLU	C-N	5.39	1.41	1.33
1	5J	128	GLU	C-O	-5.39	1.17	1.24
1	6a	120	HIS	N-CA	5.39	1.52	1.46
1	6H	13	GLN	C-N	5.39	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6V	101	GLY	CA-C	-5.39	1.46	1.52
1	70	56	LEU	CA-CB	5.39	1.61	1.53
1	7p	21	ASN	C-O	-5.39	1.17	1.24
1	82	107	THR	CA-C	5.39	1.59	1.52
1	8a	40	PHE	CA-CB	5.39	1.61	1.53
1	8i	50	GLN	CA-CB	5.39	1.61	1.53
1	8q	120	HIS	C-O	5.39	1.30	1.23
1	8B	108	THR	C-N	5.39	1.41	1.33
1	8E	174	ALA	C-N	5.39	1.41	1.33
1	8I	118	MET	CA-C	-5.39	1.45	1.52
1	8N	47	ALA	N-CA	5.39	1.52	1.46
1	8U	221	VAL	CA-C	5.39	1.59	1.52
1	9b	143	ARG	N-CA	5.39	1.52	1.46
1	9g	132	ARG	CD-NE	5.39	1.53	1.46
1	9n	135	ILE	N-CA	5.39	1.52	1.46
1	9u	106	GLY	C-N	5.39	1.41	1.33
1	9v	50	GLN	CA-C	5.39	1.59	1.52
1	9J	210	THR	C-N	5.39	1.41	1.33
1	Y	215	MET	CA-C	5.39	1.60	1.52
1	aq	6	LEU	C-O	-5.39	1.17	1.24
1	aq	190	LEU	CB-CG	5.39	1.64	1.53
1	ay	157	PRO	N-CA	-5.39	1.40	1.47
1	aR	54	THR	C-N	5.39	1.40	1.33
1	aY	84	HIS	C-N	5.39	1.46	1.33
1	aZ	124	ILE	CB-CG1	5.39	1.64	1.53
1	b9	180	GLU	C-N	5.39	1.40	1.33
1	bc	205	LEU	CA-C	5.39	1.59	1.52
1	bE	191	VAL	CA-C	5.39	1.59	1.52
1	bP	37	ILE	CA-CB	-5.39	1.51	1.54
1	bX	45	GLU	C-N	5.39	1.40	1.33
1	cl	82	ARG	N-CA	-5.39	1.39	1.46
1	cr	225	GLY	CA-C	-5.39	1.47	1.51
1	ct	229	ARG	CZ-NH1	-5.39	1.25	1.32
1	cw	36	VAL	CA-CB	-5.39	1.46	1.54
1	cw	128	GLU	CA-C	-5.39	1.45	1.52
1	cP	43	LEU	N-CA	-5.39	1.38	1.46
1	cU	74	ASN	CA-CB	5.39	1.61	1.53
1	cW	87	HIS	CA-C	-5.39	1.45	1.53
1	dh	12	HIS	ND1-CE1	5.39	1.38	1.32
1	di	65	ALA	CA-C	5.39	1.60	1.52
1	dD	28	GLU	N-CA	-5.39	1.40	1.46
1	1m	90	PRO	C-N	5.39	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dR	154	ARG	CA-CB	5.39	1.61	1.53
1	ee	152	ASP	CA-CB	5.39	1.61	1.53
1	eo	84	HIS	CD2-NE2	5.39	1.43	1.37
1	eq	80	TRP	CA-CB	5.39	1.61	1.53
1	eC	86	VAL	CA-C	5.39	1.59	1.52
1	eU	134	ILE	CA-CB	-5.39	1.48	1.54
1	1u	174	ALA	C-N	5.39	1.40	1.33
1	f3	170	LYS	C-N	5.39	1.41	1.33
1	f7	226	HIS	ND1-CE1	5.39	1.38	1.32
1	fb	201	ILE	C-N	5.39	1.41	1.33
1	fm	165	VAL	CA-C	5.39	1.59	1.52
1	fs	86	VAL	CA-CB	-5.39	1.47	1.54
1	fB	108	THR	N-CA	5.39	1.52	1.46
1	fF	21	ASN	C-O	-5.39	1.17	1.24
1	fO	86	VAL	N-CA	-5.39	1.40	1.46
1	fQ	202	LEU	CA-C	5.39	1.59	1.52
1	fR	176	GLN	N-CA	5.39	1.53	1.46
1	p	205	LEU	C-N	5.39	1.41	1.33
1	v	123	PRO	CA-C	5.39	1.60	1.52
1	gB	216	THR	CB-OG1	-5.39	1.35	1.43
1	gF	158	LYS	N-CA	-5.39	1.38	1.46
1	gL	12	HIS	CE1-NE2	-5.39	1.27	1.32
1	gS	164	TYR	CA-C	5.39	1.60	1.52
1	gV	22	ALA	CA-C	-5.39	1.46	1.52
1	h2	71	GLU	CA-C	5.39	1.59	1.52
1	hd	153	ILE	C-N	5.39	1.41	1.33
1	i9	173	ARG	CD-NE	5.39	1.53	1.46
1	ib	71	GLU	N-CA	-5.39	1.39	1.46
1	ig	144	MET	CA-CB	5.39	1.62	1.53
1	ih	73	ILE	C-O	-5.39	1.17	1.24
1	1P	121	ASN	CA-CB	5.39	1.61	1.52
1	io	33	SER	CA-C	-5.39	1.47	1.52
1	j9	117	TRP	NE1-CE2	-5.39	1.31	1.37
1	jf	119	THR	CA-C	-5.39	1.45	1.52
1	1V	100	ARG	CD-NE	5.39	1.53	1.46
1	jD	65	ALA	CA-C	-5.39	1.45	1.52
1	jI	178	SER	N-CA	5.39	1.52	1.45
1	jK	210	THR	C-N	5.39	1.41	1.34
1	jL	107	THR	CA-CB	-5.39	1.45	1.53
1	kk	71	GLU	C-O	-5.39	1.17	1.24
1	kL	59	VAL	CA-C	-5.39	1.46	1.52
1	kR	211	LEU	CA-CB	5.39	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kU	184	TRP	CA-CB	5.39	1.61	1.53
1	25	87	HIS	ND1-CE1	5.39	1.38	1.32
1	ll	100	ARG	CD-NE	5.39	1.53	1.46
1	lE	135	ILE	CA-CB	-5.39	1.48	1.54
1	2c	65	ALA	CA-CB	5.39	1.61	1.53
1	2z	2	ILE	CA-C	5.39	1.59	1.52
1	2H	117	TRP	C-N	5.39	1.41	1.33
1	2S	124	ILE	CA-CB	-5.39	1.48	1.53
1	36	77	ALA	C-O	-5.39	1.17	1.24
1	38	26	VAL	CA-C	-5.39	1.46	1.52
1	3g	106	GLY	C-N	5.39	1.41	1.33
1	3n	42	ALA	CA-CB	-5.39	1.45	1.53
1	3o	7	GLN	CA-CB	5.39	1.61	1.53
1	3N	70	LYS	N-CA	-5.39	1.39	1.46
1	48	114	GLN	CA-C	-5.39	1.45	1.52
1	4e	74	ASN	CG-ND2	5.39	1.44	1.33
1	4r	131	LYS	CA-C	5.39	1.59	1.52
1	4z	76	GLU	CA-CB	5.39	1.61	1.53
1	4U	93	PRO	N-CA	-5.39	1.40	1.47
1	4Z	73	ILE	N-CA	5.39	1.52	1.46
1	53	229	ARG	NE-CZ	5.39	1.39	1.33
1	5a	148	THR	CA-CB	5.39	1.62	1.53
1	5m	130	TYR	CA-CB	5.39	1.61	1.53
1	5u	108	THR	CA-C	5.39	1.60	1.52
1	5x	211	LEU	CB-CG	5.39	1.64	1.53
1	67	156	GLY	CA-C	5.39	1.59	1.51
1	6o	162	ARG	CD-NE	5.39	1.53	1.46
1	6w	51	ASP	C-N	5.39	1.41	1.33
1	78	69	LEU	CA-C	-5.39	1.45	1.52
1	7b	226	HIS	CB-CG	5.39	1.57	1.50
1	7q	190	LEU	CA-CB	5.39	1.61	1.53
1	7D	37	ILE	C-N	-5.39	1.27	1.34
1	7N	102	SER	CA-C	-5.39	1.45	1.52
1	7R	156	GLY	C-N	-5.39	1.26	1.34
1	7U	136	LEU	N-CA	-5.39	1.39	1.46
1	7Z	87	HIS	N-CA	5.39	1.53	1.46
1	8e	128	GLU	C-N	5.39	1.40	1.33
1	8o	159	GLU	CA-C	-5.39	1.47	1.53
1	8t	87	HIS	ND1-CE1	5.39	1.38	1.32
1	8y	219	GLN	CA-CB	5.39	1.62	1.53
1	8B	133	TRP	C-N	5.39	1.41	1.33
1	8G	199	LYS	C-N	5.39	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8I	114	GLN	CA-CB	5.39	1.61	1.53
1	92	75	GLU	C-N	5.39	1.41	1.33
1	9f	40	PHE	CA-C	5.39	1.59	1.52
1	9m	87	HIS	CG-ND1	5.39	1.44	1.38
1	9z	9	GLN	CA-CB	5.39	1.62	1.53
1	9E	146	SER	CA-CB	5.39	1.60	1.53
1	9H	144	MET	N-CA	5.39	1.52	1.46
1	Y	4	GLN	CA-CB	5.39	1.62	1.53
1	9Z	2	ILE	C-N	5.39	1.40	1.33
1	9Z	112	GLN	CA-C	5.39	1.59	1.52
1	11	68	MET	CA-C	5.39	1.59	1.52
1	12	195	ASN	CA-C	5.39	1.58	1.53
1	aB	25	LYS	N-CA	-5.39	1.39	1.46
1	aO	19	THR	CA-C	5.39	1.59	1.52
1	aO	67	GLN	N-CA	5.39	1.52	1.46
1	aT	97	ARG	CA-CB	5.39	1.62	1.53
1	aV	50	GLN	CA-CB	5.39	1.61	1.53
1	bh	173	ARG	CA-CB	5.39	1.62	1.53
1	bs	192	GLN	CA-C	-5.39	1.46	1.52
1	bv	154	ARG	C-N	5.39	1.40	1.33
1	bD	45	GLU	N-CA	5.39	1.52	1.46
1	bD	213	GLU	CA-CB	5.39	1.62	1.53
1	bK	205	LEU	C-N	5.39	1.41	1.33
1	1c	64	ALA	CA-C	-5.39	1.46	1.52
1	cu	116	GLY	N-CA	-5.39	1.39	1.45
1	cx	155	GLN	CD-NE2	5.39	1.44	1.33
1	cy	35	GLU	CA-C	-5.39	1.45	1.52
1	cE	71	GLU	N-CA	-5.39	1.40	1.46
1	cM	81	ASP	CA-C	5.39	1.59	1.52
1	cP	177	ALA	CA-C	5.39	1.60	1.52
1	cQ	131	LYS	CA-C	-5.39	1.45	1.52
1	cT	132	ARG	CA-C	5.39	1.60	1.52
1	cW	96	MET	C-N	5.39	1.41	1.33
1	d2	50	GLN	N-CA	5.39	1.53	1.46
1	df	196	PRO	N-CD	-5.39	1.40	1.47
1	dh	2	ILE	CA-C	5.39	1.58	1.52
1	dm	3	VAL	C-N	5.39	1.41	1.33
1	1k	179	GLN	N-CA	-5.39	1.39	1.46
1	dD	6	LEU	CA-C	-5.39	1.45	1.52
1	dG	191	VAL	C-N	5.39	1.41	1.33
1	dJ	193	ASN	CA-CB	5.39	1.63	1.53
1	dJ	216	THR	CA-CB	5.39	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dP	88	ALA	CA-CB	5.39	1.60	1.52
1	dZ	88	ALA	CA-C	5.39	1.59	1.52
1	e3	120	HIS	C-N	5.39	1.40	1.33
1	ek	193	ASN	C-N	5.39	1.40	1.33
1	f0	181	VAL	N-CA	5.39	1.52	1.46
1	f4	23	TRP	N-CA	5.39	1.52	1.46
1	fk	82	ARG	CA-C	-5.39	1.45	1.52
1	fz	132	ARG	NE-CZ	5.39	1.39	1.33
1	fC	176	GLN	CA-C	-5.39	1.45	1.52
1	fD	44	SER	CA-CB	5.39	1.61	1.53
1	fN	107	THR	CA-C	-5.39	1.46	1.52
1	fX	35	GLU	N-CA	-5.39	1.39	1.46
1	fX	177	ALA	CA-C	5.39	1.59	1.52
1	g2	89	GLY	N-CA	5.39	1.52	1.44
1	g3	197	ASP	N-CA	-5.39	1.39	1.46
1	g	121	ASN	C-N	5.39	1.44	1.34
1	h	61	GLY	N-CA	5.39	1.50	1.44
1	x	181	VAL	C-N	5.39	1.40	1.33
1	J	84	HIS	ND1-CE1	5.39	1.38	1.32
1	L	226	HIS	CA-CB	5.39	1.62	1.53
1	V	177	ALA	CA-C	5.39	1.59	1.52
1	gD	115	ILE	CA-C	5.39	1.60	1.52
1	h5	208	ALA	CA-C	-5.39	1.45	1.53
1	hj	124	ILE	N-CA	5.39	1.50	1.46
1	hZ	58	THR	C-N	5.39	1.40	1.33
1	i3	37	ILE	CA-CB	-5.39	1.51	1.54
1	it	30	LYS	C-N	5.39	1.39	1.33
1	1Y	159	GLU	CA-C	5.39	1.59	1.53
1	jQ	117	TRP	CA-CB	5.39	1.61	1.53
1	jT	108	THR	CA-C	5.39	1.59	1.52
1	1Z	213	GLU	CA-C	-5.39	1.45	1.52
1	kV	196	PRO	CA-CB	5.39	1.61	1.53
1	lF	130	TYR	CA-CB	5.39	1.61	1.53
1	lG	211	LEU	CA-CB	5.39	1.61	1.53
1	2V	175	GLU	CA-C	5.39	1.59	1.52
1	39	2	ILE	N-CA	5.39	1.52	1.46
1	3N	32	PHE	CA-CB	5.39	1.61	1.53
1	3X	100	ARG	CD-NE	5.39	1.53	1.46
1	40	47	ALA	C-N	5.39	1.41	1.33
1	5I	160	PRO	C-N	5.39	1.40	1.33
1	6k	191	VAL	C-N	5.39	1.41	1.33
1	6m	209	ALA	CA-C	5.39	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Y	110	THR	N-CA	5.39	1.52	1.45
1	7i	18	ARG	CD-NE	5.39	1.53	1.46
1	7x	30	LYS	CA-C	-5.39	1.45	1.52
1	7B	154	ARG	CZ-NH2	-5.39	1.26	1.33
1	7K	133	TRP	C-N	-5.39	1.27	1.33
1	99	176	GLN	CA-CB	5.39	1.62	1.53
1	9G	82	ARG	CA-C	-5.39	1.46	1.52
1	9Q	194	ALA	CA-CB	5.39	1.62	1.53
1	9Y	5	ASN	C-O	-5.39	1.19	1.24
1	ah	152	ASP	C-N	5.39	1.40	1.33
1	ai	49	PRO	CA-C	5.39	1.60	1.52
1	aw	112	GLN	CA-CB	5.39	1.61	1.53
1	aB	84	HIS	CG-ND1	5.39	1.44	1.38
1	13	123	PRO	C-N	5.39	1.38	1.33
1	aU	220	GLY	N-CA	-5.39	1.39	1.45
1	aV	90	PRO	N-CA	-5.39	1.40	1.47
1	b9	226	HIS	ND1-CE1	5.39	1.38	1.32
1	by	86	VAL	C-N	5.39	1.40	1.33
1	cU	17	PRO	CA-CB	5.39	1.61	1.53
1	cZ	182	LYS	CA-CB	5.39	1.61	1.53
1	d1	44	SER	CA-CB	5.39	1.61	1.53
1	d4	80	TRP	C-N	5.39	1.41	1.33
1	de	21	ASN	C-N	5.39	1.40	1.33
1	de	206	GLY	CA-C	5.39	1.59	1.51
1	dp	217	ALA	CA-C	-5.39	1.45	1.52
1	dv	138	LEU	C-N	5.39	1.41	1.33
1	f0	101	GLY	CA-C	5.39	1.58	1.52
1	f5	120	HIS	ND1-CE1	5.39	1.38	1.32
1	fe	107	THR	C-O	-5.39	1.17	1.24
1	ff	228	ALA	N-CA	-5.39	1.39	1.46
1	fu	109	SER	C-O	-5.39	1.17	1.23
1	1y	197	ASP	C-N	5.39	1.41	1.33
1	gs	95	GLN	N-CA	5.39	1.52	1.46
1	gD	113	GLU	CA-C	5.39	1.59	1.52
1	gH	151	LEU	N-CA	5.39	1.53	1.46
1	h6	124	ILE	CA-C	5.39	1.57	1.53
1	hj	153	ILE	CA-CB	-5.39	1.48	1.54
1	hq	53	ASN	C-O	-5.39	1.17	1.24
1	hW	117	TRP	NE1-CE2	-5.39	1.31	1.37
1	hX	118	MET	CA-C	5.39	1.60	1.52
1	hZ	68	MET	CA-C	5.39	1.59	1.52
1	1N	125	PRO	N-CA	-5.39	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ib	149	SER	C-N	5.39	1.40	1.34
1	ij	124	ILE	CA-C	5.39	1.57	1.53
1	iz	34	PRO	CA-C	5.39	1.61	1.52
1	j1	149	SER	CA-C	5.39	1.59	1.52
1	j6	204	ALA	CA-C	-5.39	1.46	1.52
1	jb	65	ALA	CA-C	5.39	1.59	1.52
1	jB	158	LYS	CA-CB	5.39	1.61	1.53
1	jL	152	ASP	CA-CB	5.39	1.62	1.53
1	kd	37	ILE	C-N	5.39	1.40	1.34
1	ki	147	PRO	CA-CB	5.39	1.60	1.53
1	22	111	LEU	CA-CB	5.39	1.61	1.53
1	kL	195	ASN	CA-CB	5.39	1.61	1.53
1	24	198	CYS	C-N	5.39	1.41	1.33
1	kV	226	HIS	ND1-CE1	5.39	1.38	1.32
1	kW	200	THR	N-CA	-5.39	1.39	1.46
1	25	149	SER	N-CA	5.39	1.52	1.45
1	26	9	GLN	C-O	-5.39	1.17	1.24
1	ll	99	PRO	CA-C	5.39	1.59	1.52
1	lx	68	MET	N-CA	-5.39	1.39	1.46
1	ly	125	PRO	CA-C	5.39	1.60	1.52
1	lA	87	HIS	ND1-CE1	5.39	1.38	1.32
1	2c	99	PRO	C-N	5.39	1.40	1.33
1	2E	172	LEU	CB-CG	5.39	1.64	1.53
1	2E	213	GLU	CA-CB	5.39	1.62	1.53
1	2Y	42	ALA	N-CA	5.39	1.52	1.46
1	2Z	88	ALA	N-CA	5.39	1.53	1.46
1	3p	6	LEU	C-O	5.39	1.30	1.23
1	3q	121	ASN	CA-C	5.39	1.58	1.52
1	3C	70	LYS	CA-C	5.39	1.59	1.52
1	3F	88	ALA	CA-C	5.39	1.59	1.52
1	4l	130	TYR	CA-C	-5.39	1.46	1.52
1	4x	166	ASP	C-N	-5.39	1.27	1.33
1	4F	65	ALA	CA-CB	5.39	1.61	1.53
1	4P	226	HIS	CA-CB	5.39	1.61	1.53
1	50	144	MET	CA-C	5.39	1.59	1.52
1	5b	13	GLN	CA-C	-5.39	1.46	1.52
1	5d	173	ARG	NE-CZ	5.39	1.39	1.33
1	5x	138	LEU	CA-CB	5.39	1.61	1.53
1	5E	207	PRO	N-CA	-5.39	1.41	1.47
1	5R	162	ARG	CD-NE	5.39	1.53	1.46
1	5U	94	GLY	CA-C	-5.39	1.44	1.51
1	5V	113	GLU	CA-C	-5.39	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5V	118	MET	C-O	-5.39	1.17	1.24
1	65	89	GLY	N-CA	5.39	1.52	1.44
1	6e	185	MET	CA-CB	5.39	1.61	1.53
1	6r	59	VAL	CA-CB	-5.39	1.47	1.54
1	6w	40	PHE	C-N	5.39	1.40	1.33
1	6F	208	ALA	N-CA	-5.39	1.39	1.46
1	8a	85	PRO	CA-CB	5.39	1.60	1.53
1	8q	180	GLU	C-O	-5.39	1.17	1.24
1	91	189	LEU	N-CA	-5.39	1.39	1.46
1	97	34	PRO	C-N	5.39	1.41	1.33
1	9f	86	VAL	CA-C	-5.39	1.46	1.52
1	9h	227	LYS	CA-CB	5.39	1.64	1.54
1	9w	87	HIS	CG-CD2	5.39	1.41	1.35
1	9w	97	ARG	CD-NE	5.39	1.53	1.46
1	9w	220	GLY	CA-C	-5.39	1.47	1.52
1	9x	135	ILE	CA-CB	5.39	1.60	1.54
1	9A	12	HIS	CE1-NE2	5.39	1.38	1.32
1	9G	75	GLU	CA-CB	5.39	1.61	1.53
1	9Y	83	LEU	C-N	5.39	1.38	1.33
1	aa	107	THR	N-CA	5.39	1.52	1.46
1	ab	85	PRO	CA-C	5.39	1.60	1.52
1	aj	84	HIS	CB-CG	-5.39	1.42	1.50
1	ax	172	LEU	CA-CB	5.39	1.63	1.53
1	aE	180	GLU	CA-C	5.39	1.59	1.52
1	aN	134	ILE	CA-C	-5.39	1.46	1.52
1	aT	174	ALA	CA-CB	5.39	1.62	1.53
1	bf	205	LEU	CA-C	-5.39	1.45	1.52
1	bh	48	THR	C-O	5.39	1.30	1.23
1	bh	200	THR	C-N	5.39	1.40	1.33
1	bT	180	GLU	CA-C	5.39	1.59	1.52
1	bW	89	GLY	N-CA	5.39	1.50	1.43
1	c2	18	ARG	CA-CB	-5.39	1.44	1.53
1	c3	165	VAL	CA-C	-5.39	1.46	1.52
1	cA	195	ASN	CA-C	5.39	1.60	1.53
1	cB	117	TRP	NE1-CE2	5.39	1.43	1.37
1	cF	217	ALA	N-CA	-5.39	1.38	1.45
1	1h	133	TRP	CA-C	-5.39	1.46	1.52
1	d4	167	ARG	CA-C	-5.39	1.46	1.52
1	d8	43	LEU	CA-C	-5.39	1.45	1.52
1	db	111	LEU	C-N	5.39	1.41	1.33
1	dd	184	TRP	CA-CB	5.39	1.61	1.53
1	dj	194	ALA	CA-C	5.39	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dn	208	ALA	C-N	5.39	1.40	1.33
1	dp	183	ASN	CA-C	-5.39	1.45	1.52
1	dr	191	VAL	N-CA	5.39	1.52	1.46
1	dx	32	PHE	C-N	5.39	1.39	1.32
1	dN	41	SER	C-N	5.39	1.41	1.33
1	eI	40	PHE	CA-CB	5.39	1.61	1.53
1	1v	128	GLU	CA-CB	5.39	1.61	1.53
1	fh	11	VAL	C-O	-5.39	1.18	1.24
1	fN	201	ILE	CA-CB	-5.39	1.48	1.54
1	k	229	ARG	N-CA	5.39	1.52	1.46
1	z	107	THR	CA-C	5.39	1.59	1.52
1	z	112	GLN	CA-C	5.39	1.59	1.52
1	3	200	THR	CA-C	-5.39	1.45	1.52
1	S	5	ASN	C-N	5.39	1.41	1.33
1	hi	20	LEU	CA-CB	5.39	1.61	1.53
1	1L	14	ALA	N-CA	-5.39	1.39	1.45
1	ic	196	PRO	N-CA	-5.39	1.40	1.47
1	ig	5	ASN	CA-CB	5.39	1.61	1.53
1	iQ	11	VAL	C-N	5.39	1.41	1.33
1	iS	213	GLU	CA-CB	5.39	1.61	1.53
1	j6	195	ASN	CA-CB	5.39	1.61	1.53
1	jf	33	SER	N-CA	5.39	1.51	1.45
1	jm	132	ARG	N-CA	5.39	1.52	1.46
1	jF	22	ALA	CA-C	5.39	1.59	1.52
1	jV	45	GLU	C-O	-5.39	1.17	1.24
1	kg	157	PRO	N-CA	-5.39	1.40	1.47
1	kN	19	THR	C-O	-5.39	1.17	1.24
1	kQ	199	LYS	CA-CB	5.39	1.61	1.53
1	lr	124	ILE	CA-C	5.39	1.57	1.53
1	2n	191	VAL	CA-CB	5.39	1.61	1.54
1	3f	109	SER	N-CA	-5.39	1.39	1.46
1	3n	58	THR	CA-C	-5.39	1.45	1.52
1	3t	100	ARG	NE-CZ	-5.39	1.27	1.33
1	4a	192	GLN	N-CA	5.39	1.52	1.46
1	4L	229	ARG	NE-CZ	-5.39	1.27	1.33
1	5t	43	LEU	CA-C	-5.39	1.44	1.52
1	5x	118	MET	C-O	-5.39	1.17	1.24
1	5L	62	HIS	CE1-NE2	5.39	1.38	1.32
1	6Y	68	MET	CA-C	-5.39	1.45	1.52
1	78	67	GLN	CA-CB	5.39	1.61	1.53
1	7j	137	GLY	CA-C	-5.39	1.46	1.52
1	7Q	55	MET	CA-C	5.39	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7S	143	ARG	CA-CB	5.39	1.61	1.53
1	9d	30	LYS	N-CA	-5.39	1.38	1.45
1	9u	87	HIS	CA-CB	5.39	1.62	1.53
1	aA	180	GLU	C-N	5.39	1.40	1.33
1	aC	210	THR	C-N	5.39	1.41	1.33
1	aW	77	ALA	C-N	-5.39	1.26	1.34
1	15	142	VAL	CA-C	5.39	1.59	1.52
1	b0	200	THR	N-CA	-5.39	1.39	1.46
1	b5	12	HIS	CA-C	5.39	1.59	1.52
1	bC	66	MET	CA-CB	5.39	1.61	1.53
1	bS	198	CYS	C-O	-5.39	1.17	1.24
1	cg	5	ASN	CA-C	5.39	1.60	1.52
1	cn	153	ILE	CA-CB	-5.39	1.49	1.54
1	cG	185	MET	CA-C	-5.39	1.45	1.52
1	1h	104	ILE	CA-CB	-5.39	1.48	1.54
1	cZ	82	ARG	CD-NE	5.39	1.53	1.46
1	dj	228	ALA	N-CA	-5.39	1.39	1.46
1	e9	188	THR	N-CA	5.39	1.52	1.46
1	eW	11	VAL	CA-C	5.39	1.59	1.52
1	f0	148	THR	CB-OG1	-5.39	1.35	1.43
1	fq	135	ILE	CA-CB	-5.39	1.47	1.54
1	g	62	HIS	ND1-CE1	5.39	1.38	1.32
1	l	170	LYS	CA-C	-5.39	1.45	1.52
1	A	54	THR	CA-C	5.39	1.59	1.52
1	gg	156	GLY	CA-C	5.39	1.59	1.51
1	gj	73	ILE	CA-C	-5.39	1.46	1.52
1	gp	154	ARG	CD-NE	5.39	1.53	1.46
1	gr	174	ALA	CA-CB	5.39	1.62	1.53
1	gv	135	ILE	C-N	5.39	1.41	1.33
1	gz	55	MET	N-CA	-5.39	1.40	1.46
1	gK	217	ALA	CA-CB	5.39	1.62	1.53
1	gV	5	ASN	CA-CB	5.39	1.61	1.53
1	h7	99	PRO	CA-C	5.39	1.59	1.52
1	hs	15	ILE	CA-C	5.39	1.59	1.52
1	hT	112	GLN	C-O	-5.39	1.17	1.24
1	ig	21	ASN	CA-CB	5.39	1.61	1.53
1	ii	62	HIS	CE1-NE2	5.39	1.38	1.32
1	1Q	100	ARG	CD-NE	5.39	1.53	1.46
1	iE	198	CYS	CA-C	-5.39	1.46	1.52
1	iM	69	LEU	C-N	5.39	1.41	1.33
1	iP	93	PRO	N-CA	-5.39	1.40	1.47
1	jA	170	LYS	C-N	5.39	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1Y	24	VAL	C-O	-5.39	1.18	1.24
1	ki	52	LEU	CA-C	-5.39	1.45	1.52
1	kj	123	PRO	C-N	5.39	1.38	1.33
1	l6	125	PRO	CA-CB	-5.39	1.47	1.53
1	l7	87	HIS	N-CA	5.39	1.52	1.45
1	lj	170	LYS	CA-CB	5.39	1.61	1.53
1	lF	215	MET	CA-C	-5.39	1.45	1.52
1	2k	229	ARG	C-N	5.39	1.40	1.33
1	3H	12	HIS	ND1-CE1	5.39	1.38	1.32
1	43	184	TRP	N-CA	-5.39	1.39	1.46
1	4l	91	ILE	CA-CB	-5.39	1.47	1.54
1	4m	65	ALA	N-CA	-5.39	1.39	1.46
1	4p	40	PHE	CA-CB	5.39	1.61	1.53
1	4u	199	LYS	N-CA	5.39	1.52	1.46
1	4v	98	GLU	N-CA	5.39	1.54	1.46
1	4E	121	ASN	CA-C	-5.39	1.46	1.52
1	4L	63	GLN	N-CA	-5.39	1.40	1.46
1	4Q	181	VAL	CA-CB	-5.39	1.47	1.54
1	4T	120	HIS	CA-C	-5.39	1.45	1.52
1	4V	12	HIS	CE1-NE2	5.39	1.38	1.32
1	50	73	ILE	C-O	-5.39	1.17	1.24
1	5p	3	VAL	N-CA	-5.39	1.39	1.46
1	5r	198	CYS	C-N	5.39	1.41	1.33
1	5D	87	HIS	CB-CG	5.39	1.57	1.50
1	5I	87	HIS	CB-CG	-5.39	1.42	1.50
1	5X	205	LEU	C-N	5.39	1.41	1.33
1	67	129	ILE	C-N	5.39	1.41	1.33
1	6o	150	ILE	CA-CB	-5.39	1.46	1.54
1	6A	12	HIS	CB-CG	-5.39	1.42	1.50
1	6E	100	ARG	CA-CB	-5.39	1.44	1.53
1	6U	229	ARG	N-CA	5.39	1.52	1.46
1	70	43	LEU	CA-CB	5.39	1.61	1.53
1	70	52	LEU	C-N	5.39	1.41	1.34
1	7V	187	GLU	C-N	5.39	1.40	1.33
1	7Y	76	GLU	C-N	5.39	1.40	1.33
1	8f	148	THR	N-CA	5.39	1.53	1.46
1	8f	195	ASN	CA-C	-5.39	1.47	1.53
1	8D	19	THR	N-CA	-5.39	1.39	1.46
1	8Y	91	ILE	CA-CB	-5.39	1.47	1.54
1	9a	7	GLN	CA-CB	5.39	1.61	1.53
1	9J	187	GLU	C-N	5.39	1.41	1.33
1	9O	211	LEU	C-O	-5.39	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a1	149	SER	CA-CB	5.39	1.62	1.53
1	a8	160	PRO	C-N	5.39	1.41	1.34
1	10	222	GLY	CA-C	-5.39	1.44	1.52
1	ag	51	ASP	CA-C	-5.39	1.46	1.52
1	as	118	MET	C-N	5.39	1.40	1.33
1	at	200	THR	C-N	5.39	1.40	1.33
1	ax	179	GLN	C-N	5.39	1.41	1.33
1	aW	145	TYR	CA-C	-5.39	1.45	1.52
1	b7	165	VAL	CA-C	5.39	1.59	1.52
1	17	189	LEU	N-CA	5.39	1.53	1.46
1	bj	63	GLN	C-O	-5.39	1.17	1.24
1	c2	61	GLY	C-N	5.39	1.41	1.33
1	ch	64	ALA	CA-CB	5.39	1.61	1.53
1	cr	40	PHE	CA-CB	5.39	1.61	1.53
1	1j	154	ARG	CD-NE	5.39	1.53	1.46
1	df	61	GLY	C-O	5.39	1.29	1.23
1	dg	139	ASN	N-CA	5.39	1.52	1.46
1	dh	162	ARG	CD-NE	5.39	1.53	1.46
1	dw	34	PRO	N-CD	5.39	1.55	1.47
1	dG	187	GLU	N-CA	-5.39	1.38	1.46
1	dW	204	ALA	CA-C	5.39	1.60	1.52
1	e4	58	THR	C-N	5.39	1.40	1.33
1	es	90	PRO	CA-CB	5.39	1.61	1.53
1	eE	189	LEU	CA-C	-5.39	1.45	1.52
1	f7	184	TRP	NE1-CE2	5.39	1.43	1.37
1	fz	19	THR	CA-C	-5.39	1.45	1.52
1	0	117	TRP	C-N	5.39	1.41	1.33
1	z	82	ARG	CD-NE	5.39	1.53	1.46
1	A	24	VAL	CA-CB	-5.39	1.46	1.54
1	P	113	GLU	C-N	5.39	1.40	1.33
1	S	43	LEU	CA-C	-5.39	1.45	1.52
1	8	212	GLU	C-N	5.39	1.41	1.33
1	g9	37	ILE	CA-C	5.38	1.57	1.52
1	gd	109	SER	CA-C	5.38	1.59	1.52
1	h2	141	ILE	CA-C	-5.38	1.46	1.52
1	hf	170	LYS	N-CA	-5.38	1.39	1.46
1	hl	5	ASN	CA-C	5.38	1.59	1.52
1	hq	17	PRO	CA-C	5.38	1.60	1.52
1	io	91	ILE	CA-CB	-5.38	1.48	1.54
1	it	5	ASN	CA-CB	5.38	1.63	1.54
1	iO	132	ARG	CD-NE	5.38	1.53	1.46
1	iP	120	HIS	CE1-NE2	-5.38	1.27	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j6	187	GLU	C-N	5.38	1.40	1.34
1	jl	130	TYR	CA-C	-5.38	1.45	1.52
1	1W	12	HIS	CA-C	5.38	1.59	1.52
1	jy	137	GLY	CA-C	-5.38	1.45	1.51
1	jE	20	LEU	CA-CB	5.38	1.61	1.53
1	jF	36	VAL	CA-C	5.38	1.59	1.52
1	1X	108	THR	N-CA	5.38	1.52	1.46
1	jK	43	LEU	C-N	5.38	1.40	1.33
1	jK	107	THR	CA-C	5.38	1.59	1.52
1	jO	12	HIS	CD2-NE2	5.38	1.43	1.37
1	k3	92	GLU	CA-CB	5.38	1.60	1.53
1	k7	53	ASN	C-N	5.38	1.41	1.33
1	k9	227	LYS	C-N	5.38	1.41	1.33
1	kc	35	GLU	N-CA	-5.38	1.39	1.46
1	kz	155	GLN	CA-C	5.38	1.59	1.52
1	23	165	VAL	CA-CB	5.38	1.61	1.54
1	kX	39	MET	C-N	5.38	1.41	1.33
1	l8	46	GLY	C-O	-5.38	1.16	1.24
1	lh	202	LEU	N-CA	5.38	1.52	1.46
1	27	66	MET	CA-C	-5.38	1.45	1.52
1	lu	129	ILE	CB-CG1	5.38	1.64	1.53
1	lv	69	LEU	N-CA	5.38	1.52	1.46
1	lx	121	ASN	CA-C	5.38	1.58	1.52
1	ly	143	ARG	CA-CB	5.38	1.61	1.53
1	lC	172	LEU	CA-C	-5.38	1.45	1.52
1	2c	175	GLU	CA-CB	5.38	1.62	1.53
1	2m	42	ALA	N-CA	-5.38	1.40	1.46
1	2N	198	CYS	CA-C	5.38	1.59	1.52
1	3f	6	LEU	CA-CB	5.38	1.62	1.53
1	3u	28	GLU	N-CA	-5.38	1.39	1.46
1	3z	122	PRO	C-N	5.38	1.40	1.33
1	3U	41	SER	N-CA	5.38	1.52	1.46
1	3V	118	MET	N-CA	-5.38	1.39	1.46
1	4H	125	PRO	N-CA	-5.38	1.40	1.47
1	4M	153	ILE	C-N	5.38	1.40	1.33
1	5v	12	HIS	ND1-CE1	5.38	1.38	1.32
1	5F	177	ALA	N-CA	5.38	1.52	1.46
1	5L	19	THR	CA-C	-5.38	1.46	1.52
1	68	203	LYS	CA-C	-5.38	1.46	1.52
1	6b	119	THR	CA-CB	5.38	1.63	1.53
1	6c	36	VAL	C-N	5.38	1.39	1.33
1	6d	213	GLU	CA-CB	5.38	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6k	21	ASN	CA-CB	5.38	1.61	1.53
1	6l	120	HIS	C-N	5.38	1.40	1.33
1	6l	168	PHE	CA-CB	5.38	1.61	1.53
1	6o	120	HIS	CB-CG	5.38	1.57	1.50
1	6K	165	VAL	N-CA	-5.38	1.40	1.46
1	6U	123	PRO	CA-CB	5.38	1.60	1.53
1	79	88	ALA	CA-CB	5.38	1.62	1.53
1	7g	109	SER	C-N	5.38	1.40	1.33
1	7v	93	PRO	CA-C	5.38	1.60	1.52
1	7x	167	ARG	CD-NE	5.38	1.53	1.46
1	7Z	111	LEU	CA-C	5.38	1.59	1.52
1	8b	167	ARG	NE-CZ	-5.38	1.27	1.33
1	8O	213	GLU	CA-CB	5.38	1.62	1.53
1	8P	173	ARG	C-N	5.38	1.41	1.33
1	9F	97	ARG	CA-C	5.38	1.59	1.52
1	9G	99	PRO	N-CA	-5.38	1.41	1.47
1	9M	97	ARG	CA-C	-5.38	1.45	1.52
1	9R	184	TRP	CD2-CE3	5.38	1.48	1.40
1	9V	88	ALA	CA-C	5.38	1.59	1.52
1	9Z	173	ARG	CZ-NH1	-5.38	1.25	1.32
1	a7	155	GLN	C-N	5.38	1.43	1.33
1	aO	118	MET	CA-C	5.38	1.60	1.52
1	b7	82	ARG	CD-NE	5.38	1.53	1.46
1	bE	40	PHE	CA-C	-5.38	1.46	1.52
1	bP	103	ASP	CA-C	5.38	1.60	1.52
1	cl	229	ARG	CZ-NH2	-5.38	1.26	1.33
1	cn	72	THR	CA-C	-5.38	1.45	1.52
1	cp	146	SER	CA-C	5.38	1.58	1.53
1	1e	12	HIS	CA-C	5.38	1.59	1.52
1	cs	31	ALA	CA-C	5.38	1.59	1.52
1	cV	6	LEU	N-CA	-5.38	1.39	1.46
1	dh	49	PRO	N-CA	-5.38	1.40	1.47
1	dj	27	VAL	N-CA	-5.38	1.40	1.46
1	dA	70	LYS	C-N	5.38	1.40	1.33
1	1m	114	GLN	C-N	5.38	1.40	1.33
1	1m	162	ARG	CZ-NH2	-5.38	1.26	1.33
1	1m	183	ASN	CA-CB	5.38	1.62	1.53
1	dQ	22	ALA	N-CA	-5.38	1.40	1.46
1	dR	204	ALA	CA-C	-5.38	1.45	1.52
1	dX	2	ILE	CA-C	5.38	1.59	1.52
1	e3	54	THR	CB-OG1	-5.38	1.35	1.43
1	e3	58	THR	N-CA	-5.38	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eg	212	GLU	C-O	-5.38	1.17	1.24
1	em	18	ARG	CA-C	-5.38	1.46	1.52
1	eC	187	GLU	CA-C	5.38	1.59	1.52
1	eT	23	TRP	CA-CB	5.38	1.61	1.53
1	f8	56	LEU	C-N	5.38	1.41	1.33
1	fa	31	ALA	CA-C	-5.38	1.48	1.53
1	fh	209	ALA	C-O	-5.38	1.17	1.24
1	fm	182	LYS	CA-CB	-5.38	1.45	1.53
1	fo	146	SER	CA-C	-5.38	1.46	1.52
1	fK	105	ALA	CA-C	5.38	1.60	1.52
1	k	101	GLY	C-N	5.38	1.41	1.33
1	R	23	TRP	CA-CB	5.38	1.61	1.53
1	gr	189	LEU	CA-C	5.38	1.59	1.52
1	gv	150	ILE	CA-C	-5.38	1.45	1.52
1	h9	27	VAL	N-CA	5.38	1.53	1.46
1	hh	133	TRP	NE1-CE2	5.38	1.43	1.37
1	hx	10	MET	C-N	-5.38	1.26	1.33
1	hJ	19	THR	CA-C	-5.38	1.46	1.52
1	iV	168	PHE	N-CA	5.38	1.52	1.46
1	iV	230	VAL	CA-CB	-5.38	1.48	1.54
1	j0	59	VAL	N-CA	5.38	1.52	1.46
1	jw	55	MET	N-CA	-5.38	1.40	1.46
1	jV	64	ALA	CA-C	-5.38	1.46	1.52
1	k3	11	VAL	CA-C	-5.38	1.45	1.52
1	k3	69	LEU	CA-C	-5.38	1.46	1.52
1	ky	22	ALA	C-N	5.38	1.40	1.33
1	kU	119	THR	N-CA	-5.38	1.40	1.46
1	kY	91	ILE	CA-CB	-5.38	1.47	1.54
1	l5	225	GLY	C-O	-5.38	1.18	1.23
1	lH	62	HIS	CA-C	-5.38	1.46	1.53
1	lI	12	HIS	CG-ND1	5.38	1.44	1.38
1	2c	93	PRO	CA-C	5.38	1.59	1.52
1	3f	78	ALA	CA-C	5.38	1.59	1.52
1	3R	121	ASN	CA-C	5.38	1.57	1.52
1	3R	218	CYS	CA-C	-5.38	1.47	1.53
1	3Y	91	ILE	N-CA	-5.38	1.39	1.46
1	4t	18	ARG	CZ-NH2	-5.38	1.26	1.33
1	4H	100	ARG	CD-NE	5.38	1.53	1.46
1	5T	199	LYS	C-O	-5.38	1.17	1.24
1	6s	9	GLN	C-O	5.38	1.30	1.24
1	7v	229	ARG	NE-CZ	-5.38	1.27	1.33
1	7V	7	GLN	CA-C	-5.38	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	97	223	GLY	N-CA	5.38	1.52	1.44
1	99	137	GLY	CA-C	-5.38	1.46	1.52
1	9d	90	PRO	CA-C	-5.38	1.46	1.52
1	a4	177	ALA	CA-CB	5.38	1.62	1.53
1	aF	22	ALA	C-N	5.38	1.41	1.33
1	aO	178	SER	C-N	5.38	1.41	1.33
1	bb	228	ALA	CA-C	5.38	1.59	1.52
1	bd	152	ASP	N-CA	5.38	1.53	1.46
1	bh	123	PRO	C-N	5.38	1.38	1.33
1	bK	168	PHE	CA-CB	5.38	1.61	1.53
1	bT	189	LEU	C-N	5.38	1.41	1.33
1	eb	120	HIS	CB-CG	5.38	1.57	1.50
1	eC	138	LEU	CA-CB	5.38	1.62	1.53
1	eF	44	SER	C-N	5.38	1.40	1.33
1	eM	220	GLY	CA-C	-5.38	1.44	1.51
1	1t	139	ASN	CA-CB	5.38	1.61	1.53
1	eQ	37	ILE	N-CA	5.38	1.53	1.46
1	eQ	75	GLU	CA-C	-5.38	1.46	1.52
1	fw	37	ILE	CB-CG1	5.38	1.64	1.53
1	1A	196	PRO	CA-C	5.38	1.59	1.52
1	s	152	ASP	CA-C	5.38	1.60	1.52
1	w	118	MET	CA-CB	5.38	1.63	1.53
1	3	53	ASN	CA-CB	5.38	1.61	1.53
1	1C	145	TYR	CA-CB	5.38	1.62	1.53
1	1F	210	THR	CA-C	5.38	1.59	1.52
1	gS	139	ASN	C-N	-5.38	1.27	1.33
1	gS	215	MET	N-CA	-5.38	1.39	1.46
1	hb	18	ARG	CZ-NH2	-5.38	1.26	1.33
1	1I	210	THR	CA-C	-5.38	1.46	1.53
1	hQ	180	GLU	CA-CB	5.38	1.61	1.53
1	hS	155	GLN	CD-NE2	5.38	1.44	1.33
1	if	179	GLN	C-O	-5.38	1.17	1.24
1	ii	200	THR	N-CA	5.38	1.52	1.46
1	iu	148	THR	CA-C	-5.38	1.45	1.52
1	ix	118	MET	CG-SD	5.38	1.94	1.80
1	iG	131	LYS	C-N	5.38	1.41	1.33
1	iH	161	PHE	CA-CB	5.38	1.61	1.53
1	j3	202	LEU	CA-C	-5.38	1.45	1.52
1	ja	87	HIS	CA-C	5.38	1.60	1.53
1	jb	177	ALA	N-CA	5.38	1.52	1.46
1	1U	181	VAL	CA-CB	-5.38	1.46	1.54
1	jj	28	GLU	CA-C	5.38	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jp	183	ASN	C-O	-5.38	1.17	1.24
1	1W	132	ARG	CD-NE	5.38	1.53	1.46
1	jx	120	HIS	CD2-NE2	-5.38	1.31	1.37
1	jU	131	LYS	N-CA	-5.38	1.39	1.46
1	jX	170	LYS	CA-C	5.38	1.59	1.52
1	k7	166	ASP	C-N	5.38	1.41	1.33
1	k8	117	TRP	NE1-CE2	5.38	1.43	1.37
1	kK	185	MET	CA-CB	5.38	1.61	1.53
1	l0	179	GLN	C-N	5.38	1.41	1.33
1	l7	84	HIS	ND1-CE1	5.38	1.38	1.32
1	lj	38	PRO	C-N	5.38	1.40	1.33
1	28	123	PRO	CA-CB	5.38	1.61	1.53
1	lA	198	CYS	CA-C	5.38	1.59	1.52
1	2f	204	ALA	CA-C	5.38	1.59	1.52
1	2j	97	ARG	C-O	5.38	1.30	1.23
1	2x	229	ARG	NE-CZ	5.38	1.39	1.33
1	2y	160	PRO	C-N	5.38	1.41	1.33
1	2A	90	PRO	C-N	5.38	1.40	1.33
1	2F	226	HIS	ND1-CE1	5.38	1.38	1.32
1	2Q	38	PRO	N-CD	-5.38	1.40	1.47
1	2V	175	GLU	N-CA	-5.38	1.39	1.46
1	31	125	PRO	C-N	5.38	1.40	1.34
1	3p	211	LEU	N-CA	-5.38	1.39	1.46
1	3q	151	LEU	CA-C	-5.38	1.45	1.52
1	3y	44	SER	CA-C	5.38	1.60	1.52
1	3y	181	VAL	C-O	5.38	1.30	1.24
1	3A	191	VAL	CA-CB	-5.38	1.48	1.54
1	3E	99	PRO	CA-C	5.38	1.57	1.52
1	3U	3	VAL	N-CA	5.38	1.52	1.46
1	4i	6	LEU	CA-CB	5.38	1.62	1.53
1	4s	12	HIS	CG-CD2	5.38	1.41	1.35
1	4t	3	VAL	C-N	5.38	1.41	1.33
1	4x	193	ASN	C-N	5.38	1.41	1.33
1	56	198	CYS	CA-C	-5.38	1.46	1.52
1	57	203	LYS	N-CA	5.38	1.52	1.46
1	5b	82	ARG	CA-CB	5.38	1.62	1.53
1	5d	71	GLU	C-N	-5.38	1.26	1.33
1	5O	196	PRO	N-CA	5.38	1.54	1.47
1	5Q	75	GLU	N-CA	-5.38	1.39	1.46
1	5S	223	GLY	N-CA	5.38	1.52	1.44
1	5T	200	THR	C-O	-5.38	1.17	1.24
1	60	185	MET	N-CA	-5.38	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6a	129	ILE	CA-CB	-5.38	1.48	1.54
1	6x	195	ASN	N-CA	5.38	1.53	1.45
1	6B	6	LEU	CA-C	-5.38	1.45	1.52
1	6V	129	ILE	C-N	5.38	1.41	1.33
1	72	6	LEU	CA-CB	5.38	1.60	1.53
1	7c	200	THR	CA-C	5.38	1.60	1.52
1	7p	195	ASN	CA-CB	5.38	1.63	1.53
1	7s	214	MET	CA-CB	5.38	1.61	1.53
1	7y	16	SER	CA-CB	5.38	1.62	1.52
1	7D	91	ILE	CA-C	5.38	1.59	1.52
1	8m	99	PRO	CA-C	5.38	1.58	1.52
1	8r	29	GLU	CA-CB	5.38	1.61	1.53
1	8K	96	MET	C-N	5.38	1.41	1.33
1	8W	171	THR	CA-CB	-5.38	1.45	1.53
1	91	171	THR	CA-CB	-5.38	1.44	1.53
1	9l	8	GLY	C-N	5.38	1.40	1.33
1	9l	68	MET	N-CA	-5.38	1.39	1.46
1	9I	67	GLN	N-CA	5.38	1.52	1.46
1	9M	2	ILE	C-N	5.38	1.38	1.33
1	ag	162	ARG	C-N	5.38	1.41	1.33
1	aj	144	MET	CA-C	-5.38	1.46	1.52
1	11	190	LEU	C-N	5.38	1.40	1.33
1	am	111	LEU	C-O	-5.38	1.17	1.24
1	12	50	GLN	CA-CB	5.38	1.61	1.53
1	13	230	VAL	CA-C	-5.38	1.45	1.52
1	aE	203	LYS	C-N	5.38	1.41	1.33
1	aN	123	PRO	C-N	5.38	1.38	1.33
1	aX	93	PRO	CA-C	5.38	1.59	1.52
1	aZ	179	GLN	CA-CB	5.38	1.61	1.53
1	b3	81	ASP	CA-CB	5.38	1.62	1.53
1	ba	3	VAL	N-CA	-5.38	1.39	1.46
1	bK	84	HIS	CD2-NE2	5.38	1.43	1.37
1	bN	173	ARG	CD-NE	5.38	1.53	1.46
1	c5	148	THR	C-N	5.38	1.40	1.33
1	cx	86	VAL	C-O	-5.38	1.18	1.24
1	cI	178	SER	CA-C	5.38	1.60	1.53
1	1g	171	THR	N-CA	5.38	1.53	1.46
1	d5	188	THR	CA-CB	5.38	1.61	1.54
1	da	131	LYS	C-N	5.38	1.41	1.33
1	dc	84	HIS	C-N	5.38	1.40	1.33
1	di	110	THR	CA-C	-5.38	1.45	1.52
1	dI	226	HIS	CD2-NE2	5.38	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ea	9	GLN	CA-CB	5.38	1.61	1.53
1	eb	132	ARG	CZ-NH2	-5.38	1.26	1.33
1	ec	51	ASP	CA-C	5.38	1.59	1.52
1	1s	218	CYS	C-O	-5.38	1.17	1.24
1	eI	183	ASN	C-N	5.38	1.41	1.33
1	1t	154	ARG	CA-C	5.38	1.59	1.52
1	eR	8	GLY	C-N	5.38	1.40	1.33
1	eS	117	TRP	CA-C	5.38	1.59	1.52
1	eT	97	ARG	C-N	5.38	1.41	1.33
1	1u	189	LEU	CA-C	5.38	1.59	1.52
1	f6	59	VAL	C-N	5.38	1.41	1.33
1	f7	59	VAL	CA-CB	5.38	1.61	1.54
1	fN	78	ALA	C-N	-5.38	1.26	1.33
1	g1	159	GLU	N-CA	5.38	1.54	1.46
1	k	206	GLY	CA-C	5.38	1.59	1.51
1	n	150	ILE	CA-CB	-5.38	1.48	1.54
1	u	197	ASP	C-N	5.38	1.41	1.33
1	E	185	MET	C-N	5.38	1.40	1.33
1	O	101	GLY	C-N	5.38	1.41	1.33
1	6	66	MET	CA-CB	5.38	1.61	1.53
1	gb	88	ALA	C-N	5.38	1.41	1.33
1	gc	103	ASP	C-N	5.38	1.40	1.33
1	gc	211	LEU	C-N	5.38	1.40	1.33
1	gj	26	VAL	C-N	-5.38	1.27	1.33
1	hr	224	PRO	C-N	5.38	1.41	1.33
1	hY	159	GLU	C-N	5.38	1.39	1.33
1	i0	184	TRP	CA-C	-5.38	1.45	1.52
1	iV	182	LYS	C-N	5.38	1.41	1.33
1	j9	204	ALA	CA-C	5.38	1.60	1.52
1	jz	112	GLN	C-O	-5.38	1.17	1.24
1	jK	133	TRP	NE1-CE2	-5.38	1.31	1.37
1	1Y	33	SER	CA-C	5.38	1.59	1.52
1	kR	223	GLY	C-N	5.38	1.39	1.33
1	kU	196	PRO	N-CA	-5.38	1.40	1.47
1	kV	124	ILE	CA-CB	5.38	1.61	1.54
1	l6	142	VAL	CA-CB	-5.38	1.47	1.54
1	lx	1	PRO	CA-C	-5.38	1.41	1.52
1	29	145	TYR	CA-C	-5.38	1.44	1.52
1	2x	89	GLY	CA-C	5.38	1.59	1.51
1	5P	46	GLY	CA-C	-5.38	1.44	1.51
1	5P	103	ASP	N-CA	-5.38	1.39	1.46
1	5X	168	PHE	N-CA	5.38	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Y	120	HIS	CE1-NE2	5.38	1.38	1.32
1	6v	68	MET	CA-CB	5.38	1.61	1.53
1	6A	7	GLN	CA-C	5.38	1.58	1.52
1	6E	154	ARG	CD-NE	5.38	1.53	1.46
1	6F	84	HIS	CG-ND1	5.38	1.44	1.38
1	70	71	GLU	CA-CB	5.38	1.62	1.53
1	7x	15	ILE	N-CA	-5.38	1.39	1.46
1	80	224	PRO	C-N	5.38	1.41	1.33
1	9s	112	GLN	CA-CB	5.38	1.61	1.53
1	9G	80	TRP	C-O	-5.38	1.17	1.24
1	9W	173	ARG	CA-C	-5.38	1.45	1.52
1	aB	89	GLY	CA-C	-5.38	1.44	1.51
1	cg	212	GLU	CA-C	5.38	1.59	1.52
1	co	189	LEU	CA-CB	5.38	1.61	1.53
1	cR	218	CYS	CA-CB	5.38	1.61	1.53
1	dl	118	MET	CA-C	5.38	1.60	1.52
1	eb	124	ILE	CA-C	-5.38	1.48	1.53
1	ee	109	SER	C-N	5.38	1.40	1.33
1	eB	142	VAL	CA-C	5.38	1.59	1.52
1	fo	86	VAL	CA-C	5.38	1.59	1.52
1	fq	187	GLU	CA-C	5.38	1.59	1.52
1	g7	37	ILE	CA-C	5.38	1.58	1.52
1	0	73	ILE	C-O	-5.38	1.18	1.24
1	n	210	THR	C-N	5.38	1.41	1.34
1	gI	12	HIS	CD2-NE2	5.38	1.43	1.37
1	1G	104	ILE	N-CA	5.38	1.52	1.46
1	h3	201	ILE	CA-CB	-5.38	1.47	1.54
1	hf	45	GLU	C-N	5.38	1.40	1.33
1	hN	190	LEU	CA-CB	5.38	1.61	1.53
1	i4	142	VAL	CA-CB	-5.38	1.48	1.54
1	i9	207	PRO	N-CD	5.38	1.55	1.47
1	ih	218	CYS	CA-CB	5.38	1.61	1.53
1	ip	124	ILE	CA-C	-5.38	1.47	1.52
1	iE	82	ARG	CD-NE	5.38	1.53	1.46
1	iN	70	LYS	CA-CB	5.38	1.61	1.53
1	iV	203	LYS	CA-C	5.38	1.60	1.52
1	jb	120	HIS	CA-C	-5.38	1.46	1.52
1	jl	22	ALA	N-CA	-5.38	1.39	1.46
1	k7	9	GLN	N-CA	5.38	1.52	1.46
1	kF	124	ILE	C-O	5.38	1.29	1.23
1	25	226	HIS	CG-ND1	5.38	1.44	1.38
1	l6	76	GLU	C-O	-5.38	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l9	193	ASN	CA-CB	5.38	1.61	1.53
1	lc	182	LYS	C-N	5.38	1.41	1.33
1	lh	141	ILE	C-N	5.38	1.40	1.33
1	li	228	ALA	C-N	5.38	1.40	1.33
1	lo	33	SER	N-CA	5.38	1.53	1.46
1	lt	91	ILE	C-O	-5.38	1.18	1.24
1	lI	84	HIS	CE1-NE2	-5.38	1.27	1.32
1	2q	120	HIS	ND1-CE1	5.38	1.38	1.32
1	2t	142	VAL	CA-CB	-5.38	1.48	1.54
1	2P	101	GLY	N-CA	5.38	1.52	1.45
1	2X	105	ALA	C-N	5.38	1.41	1.33
1	2Y	87	HIS	C-N	5.38	1.41	1.33
1	2Z	193	ASN	CA-CB	5.38	1.60	1.53
1	30	22	ALA	N-CA	5.38	1.52	1.46
1	32	153	ILE	CA-CB	-5.38	1.48	1.54
1	3r	104	ILE	N-CA	-5.38	1.40	1.46
1	3w	18	ARG	NE-CZ	-5.38	1.27	1.33
1	3R	25	LYS	CA-CB	5.38	1.61	1.53
1	4u	219	GLN	CA-CB	5.38	1.60	1.53
1	4v	48	THR	CA-C	5.38	1.59	1.52
1	4L	215	MET	CA-C	-5.38	1.45	1.52
1	5d	65	ALA	CA-CB	5.38	1.61	1.53
1	5g	126	VAL	CA-CB	-5.38	1.47	1.54
1	5z	170	LYS	CA-C	5.38	1.59	1.52
1	5I	159	GLU	CA-C	5.38	1.59	1.52
1	5N	100	ARG	C-N	5.38	1.40	1.33
1	5X	31	ALA	N-CA	-5.38	1.40	1.46
1	5Z	34	PRO	N-CD	-5.38	1.40	1.47
1	6e	5	ASN	N-CA	5.38	1.52	1.46
1	6i	91	ILE	CA-CB	5.38	1.60	1.54
1	6t	28	GLU	CA-C	-5.38	1.46	1.52
1	6y	213	GLU	N-CA	-5.38	1.40	1.46
1	6B	75	GLU	C-N	5.38	1.41	1.33
1	6Q	103	ASP	C-N	5.38	1.40	1.33
1	6T	184	TRP	CD2-CE3	-5.38	1.31	1.40
1	71	119	THR	C-N	5.38	1.40	1.33
1	7w	24	VAL	N-CA	-5.38	1.39	1.46
1	7z	73	ILE	CA-C	-5.38	1.46	1.52
1	7C	200	THR	CA-C	-5.38	1.45	1.52
1	7E	124	ILE	CA-C	-5.38	1.48	1.53
1	7I	161	PHE	CA-C	-5.38	1.45	1.52
1	87	21	ASN	N-CA	5.38	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8t	67	GLN	CA-CB	5.38	1.61	1.53
1	8v	65	ALA	C-N	5.38	1.41	1.33
1	8K	77	ALA	CA-C	5.38	1.59	1.52
1	9b	148	THR	CA-C	-5.38	1.45	1.52
1	9I	149	SER	N-CA	5.38	1.52	1.45
1	9R	24	VAL	N-CA	-5.38	1.40	1.46
1	aj	82	ARG	NE-CZ	5.38	1.39	1.33
1	aL	84	HIS	CD2-NE2	-5.38	1.31	1.37
1	aL	121	ASN	C-O	-5.38	1.20	1.25
1	aR	95	GLN	C-N	5.38	1.40	1.33
1	b0	48	THR	C-N	5.38	1.42	1.33
1	b7	164	TYR	CA-C	-5.38	1.45	1.52
1	bd	12	HIS	CA-C	5.38	1.59	1.52
1	bd	169	TYR	CA-C	-5.38	1.45	1.52
1	bl	191	VAL	C-N	5.38	1.41	1.33
1	bs	85	PRO	N-CD	-5.38	1.40	1.47
1	bu	115	ILE	CA-C	5.38	1.59	1.52
1	c4	105	ALA	CA-CB	5.38	1.62	1.53
1	c8	187	GLU	CA-CB	5.38	1.61	1.53
1	cJ	19	THR	CA-C	-5.38	1.46	1.52
1	cK	33	SER	C-N	-5.38	1.27	1.33
1	cN	144	MET	N-CA	5.38	1.52	1.46
1	d6	101	GLY	CA-C	-5.38	1.45	1.52
1	d8	90	PRO	C-N	5.38	1.40	1.33
1	1j	62	HIS	CG-ND1	5.38	1.44	1.38
1	de	40	PHE	CA-CB	5.38	1.61	1.53
1	dh	84	HIS	ND1-CE1	5.38	1.38	1.32
1	1k	134	ILE	C-N	5.38	1.40	1.33
1	1l	148	THR	CA-C	5.38	1.59	1.52
1	eb	164	TYR	CA-CB	5.38	1.61	1.53
1	ev	95	GLN	CA-C	-5.38	1.45	1.52
1	eD	26	VAL	CA-CB	-5.38	1.47	1.54
1	eI	157	PRO	C-O	-5.38	1.17	1.24
1	eO	85	PRO	C-N	5.38	1.39	1.33
1	eU	143	ARG	CD-NE	5.38	1.53	1.46
1	f3	140	LYS	CA-CB	5.38	1.61	1.53
1	fc	19	THR	CA-C	5.38	1.59	1.52
1	fw	40	PHE	CA-C	-5.38	1.45	1.52
1	fV	228	ALA	CA-C	5.38	1.59	1.52
1	e	62	HIS	CA-CB	5.38	1.60	1.52
1	l	49	PRO	CA-CB	5.38	1.61	1.53
1	C	202	LEU	CA-C	5.38	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	188	THR	CA-C	5.38	1.59	1.52
1	N	75	GLU	N-CA	-5.38	1.40	1.46
1	X	183	ASN	CA-C	5.38	1.59	1.52
1	7	92	GLU	N-CA	-5.38	1.37	1.46
1	gc	117	TRP	N-CA	5.38	1.52	1.46
1	ge	115	ILE	CA-C	5.38	1.59	1.52
1	go	147	PRO	N-CA	5.38	1.54	1.47
1	1D	38	PRO	CA-CB	5.38	1.61	1.53
1	gG	92	GLU	CA-C	-5.38	1.47	1.53
1	gK	196	PRO	CA-C	5.38	1.59	1.52
1	gS	193	ASN	C-N	5.38	1.40	1.33
1	hf	4	GLN	CA-CB	5.38	1.62	1.53
1	1K	192	GLN	CA-CB	5.38	1.61	1.53
1	hK	27	VAL	CA-CB	5.38	1.60	1.54
1	j4	117	TRP	NE1-CE2	-5.38	1.31	1.37
1	jh	87	HIS	CA-CB	5.38	1.61	1.53
1	jh	132	ARG	CD-NE	5.38	1.53	1.46
1	jm	12	HIS	CD2-NE2	-5.38	1.31	1.37
1	jN	103	ASP	N-CA	5.38	1.53	1.46
1	jR	189	LEU	CA-CB	5.38	1.61	1.53
1	k4	230	VAL	C-O	-5.38	1.18	1.24
1	k5	44	SER	N-CA	-5.38	1.39	1.46
1	ke	158	LYS	N-CA	5.38	1.52	1.46
1	kf	229	ARG	NE-CZ	5.38	1.39	1.33
1	kE	213	GLU	N-CA	5.38	1.52	1.46
1	kO	16	SER	CA-CB	5.38	1.62	1.53
1	kZ	54	THR	N-CA	5.38	1.52	1.46
1	ld	117	TRP	CA-CB	5.38	1.61	1.53
1	le	18	ARG	N-CA	5.38	1.52	1.46
1	lA	51	ASP	CA-C	-5.38	1.46	1.52
1	lF	155	GLN	N-CA	-5.38	1.40	1.46
1	lP	17	PRO	N-CD	-5.38	1.40	1.47
1	2e	146	SER	N-CA	5.38	1.53	1.45
1	2h	84	HIS	ND1-CE1	5.38	1.38	1.32
1	2H	133	TRP	CA-C	5.38	1.59	1.52
1	3j	130	TYR	C-O	-5.38	1.17	1.24
1	3N	73	ILE	N-CA	5.38	1.52	1.46
1	42	204	ALA	N-CA	5.38	1.52	1.46
1	4a	107	THR	CA-CB	5.38	1.62	1.53
1	4h	108	THR	C-N	5.38	1.41	1.33
1	4p	197	ASP	N-CA	-5.38	1.39	1.46
1	4O	132	ARG	CD-NE	5.38	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4Q	75	GLU	N-CA	5.38	1.52	1.46
1	4X	97	ARG	CD-NE	5.38	1.53	1.46
1	4Z	53	ASN	CA-CB	5.38	1.61	1.53
1	52	168	PHE	CA-CB	5.38	1.61	1.53
1	57	132	ARG	CD-NE	5.38	1.53	1.46
1	5y	173	ARG	CA-C	-5.38	1.45	1.52
1	6f	117	TRP	CD2-CE3	-5.38	1.31	1.40
1	6h	180	GLU	C-O	-5.38	1.18	1.24
1	6j	120	HIS	ND1-CE1	5.38	1.38	1.32
1	6q	133	TRP	CA-CB	5.38	1.61	1.53
1	6r	74	ASN	CA-CB	5.38	1.61	1.53
1	6s	145	TYR	CA-CB	5.38	1.62	1.53
1	6F	4	GLN	CA-C	-5.38	1.45	1.52
1	6H	226	HIS	CG-ND1	5.38	1.44	1.38
1	6M	150	ILE	N-CA	5.38	1.53	1.46
1	6R	178	SER	C-N	5.38	1.41	1.34
1	6T	202	LEU	N-CA	5.38	1.53	1.46
1	7Q	137	GLY	CA-C	5.38	1.58	1.52
1	8g	146	SER	C-N	-5.38	1.29	1.33
1	8n	113	GLU	C-N	5.38	1.41	1.33
1	8u	226	HIS	CA-CB	-5.38	1.44	1.53
1	8w	29	GLU	CA-C	5.38	1.59	1.53
1	8D	119	THR	C-N	5.38	1.41	1.33
1	8I	39	MET	CA-CB	5.38	1.61	1.53
1	8Q	187	GLU	CA-C	-5.38	1.46	1.52
1	9b	209	ALA	N-CA	-5.38	1.39	1.46
1	9j	119	THR	C-N	5.38	1.40	1.33
1	9s	18	ARG	CA-CB	5.38	1.61	1.53
1	9y	83	LEU	CA-C	-5.38	1.45	1.52
1	9L	17	PRO	C-N	-5.38	1.26	1.33
1	Y	51	ASP	CA-C	5.38	1.59	1.52
1	a2	197	ASP	N-CA	-5.38	1.40	1.46
1	a4	143	ARG	NE-CZ	-5.38	1.27	1.33
1	am	159	GLU	N-CA	-5.38	1.38	1.46
1	bA	117	TRP	CA-CB	5.38	1.61	1.53
1	bB	91	ILE	CA-C	5.38	1.59	1.52
1	bM	39	MET	N-CA	-5.38	1.40	1.46
1	bO	96	MET	N-CA	5.38	1.53	1.46
1	bU	155	GLN	N-CA	5.38	1.52	1.46
1	bU	213	GLU	CA-CB	5.38	1.61	1.53
1	c6	70	LYS	CA-CB	5.38	1.61	1.53
1	cn	122	PRO	C-N	-5.38	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1e	36	VAL	CA-CB	5.38	1.60	1.54
1	cv	150	ILE	CA-C	5.38	1.59	1.52
1	cJ	99	PRO	CA-C	-5.38	1.46	1.52
1	cK	138	LEU	N-CA	-5.38	1.39	1.46
1	cM	212	GLU	CA-CB	5.38	1.61	1.53
1	d4	203	LYS	CA-CB	5.38	1.61	1.53
1	1j	121	ASN	CA-CB	5.38	1.60	1.53
1	df	106	GLY	N-CA	5.38	1.53	1.45
1	dj	37	ILE	CA-C	5.38	1.58	1.52
1	dn	69	LEU	CA-CB	5.38	1.61	1.53
1	dn	86	VAL	N-CA	5.38	1.52	1.46
1	dw	100	ARG	C-N	5.38	1.41	1.33
1	dA	97	ARG	C-O	5.38	1.31	1.23
1	dF	222	GLY	CA-C	-5.38	1.46	1.52
1	eg	114	GLN	CA-CB	5.38	1.61	1.53
1	el	23	TRP	C-N	5.38	1.40	1.33
1	eo	12	HIS	ND1-CE1	5.38	1.38	1.32
1	eO	104	ILE	N-CA	-5.38	1.40	1.46
1	f7	11	VAL	C-N	5.38	1.41	1.33
1	f7	74	ASN	C-N	5.38	1.40	1.33
1	fq	148	THR	C-N	5.38	1.40	1.33
1	fU	200	THR	C-N	5.38	1.40	1.33
1	1A	96	MET	CG-SD	5.38	1.94	1.80
1	fY	131	LYS	CA-CB	5.38	1.61	1.53
1	c	11	VAL	CA-C	5.38	1.58	1.52
1	1	173	ARG	CZ-NH2	5.38	1.40	1.33
1	G	109	SER	C-N	5.38	1.40	1.33
1	I	120	HIS	CG-CD2	5.38	1.41	1.35
1	K	23	TRP	NE1-CE2	-5.38	1.31	1.37
1	K	66	MET	N-CA	5.38	1.52	1.46
1	4	28	GLU	CA-C	-5.38	1.48	1.53
1	4	183	ASN	CA-CB	5.38	1.61	1.53
1	7	198	CYS	CA-C	5.38	1.60	1.52
1	hq	34	PRO	N-CD	5.38	1.55	1.47
1	hz	81	ASP	C-N	5.38	1.41	1.33
1	jk	211	LEU	CA-CB	5.38	1.62	1.53
1	1W	150	ILE	CA-CB	-5.38	1.46	1.54
1	jB	69	LEU	CA-C	-5.38	1.46	1.52
1	jB	142	VAL	C-O	-5.38	1.18	1.24
1	jM	219	GLN	CA-C	5.38	1.59	1.52
1	k0	11	VAL	CA-C	5.38	1.58	1.52
1	ks	74	ASN	CA-C	5.38	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l7	107	THR	C-O	-5.38	1.17	1.24
1	l9	1	PRO	N-CD	5.38	1.55	1.47
1	2Q	25	LYS	CA-C	5.38	1.59	1.52
1	3u	179	GLN	CA-C	5.38	1.59	1.52
1	4m	161	PHE	CA-CB	5.38	1.61	1.53
1	5r	12	HIS	CD2-NE2	5.38	1.43	1.37
1	5H	211	LEU	CA-CB	5.38	1.61	1.53
1	5N	129	ILE	N-CA	5.38	1.52	1.46
1	6X	18	ARG	CA-CB	5.38	1.61	1.53
1	7v	23	TRP	CA-C	5.38	1.59	1.52
1	7L	182	LYS	N-CA	-5.38	1.39	1.46
1	8r	194	ALA	C-N	5.38	1.41	1.33
1	8A	12	HIS	CG-CD2	5.38	1.41	1.35
1	9w	186	THR	CA-C	-5.38	1.45	1.52
1	9C	62	HIS	CE1-NE2	5.38	1.38	1.32
1	9E	180	GLU	N-CA	-5.38	1.39	1.46
1	aQ	58	THR	CA-C	5.38	1.59	1.52
1	ce	102	SER	CA-C	-5.38	1.45	1.52
1	co	112	GLN	C-N	5.38	1.41	1.33
1	cw	178	SER	N-CA	5.38	1.53	1.46
1	cH	143	ARG	C-O	5.38	1.30	1.24
1	cL	5	ASN	CA-CB	5.38	1.61	1.53
1	cV	72	THR	CA-C	-5.38	1.46	1.52
1	dy	226	HIS	CB-CG	5.38	1.57	1.50
1	1m	211	LEU	C-N	5.38	1.41	1.33
1	eO	18	ARG	CD-NE	5.38	1.53	1.46
1	eP	211	LEU	N-CA	-5.38	1.39	1.46
1	f5	199	LYS	CA-C	5.38	1.59	1.52
1	fd	33	SER	CA-C	5.38	1.59	1.52
1	fh	77	ALA	CA-CB	5.38	1.61	1.53
1	fj	168	PHE	CA-CB	5.38	1.61	1.53
1	1z	193	ASN	CA-CB	5.38	1.61	1.53
1	g1	188	THR	CA-C	5.38	1.55	1.52
1	0	96	MET	CA-C	-5.38	1.46	1.52
1	gi	73	ILE	CA-CB	5.37	1.60	1.54
1	gr	174	ALA	CA-C	5.37	1.59	1.52
1	gs	48	THR	CA-C	-5.37	1.46	1.53
1	gC	25	LYS	CA-CB	5.37	1.61	1.53
1	gH	24	VAL	CA-CB	5.37	1.61	1.54
1	gH	62	HIS	CA-CB	5.37	1.61	1.53
1	gV	114	GLN	CA-C	5.37	1.59	1.52
1	1H	226	HIS	ND1-CE1	5.37	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hj	100	ARG	C-N	5.37	1.40	1.33
1	hJ	205	LEU	N-CA	-5.37	1.39	1.46
1	hV	39	MET	C-N	5.37	1.41	1.33
1	i5	194	ALA	C-N	5.37	1.40	1.33
1	i7	194	ALA	CA-C	5.37	1.60	1.53
1	ia	150	ILE	CA-CB	5.37	1.61	1.54
1	iq	62	HIS	CG-CD2	5.37	1.41	1.35
1	is	29	GLU	N-CA	5.37	1.52	1.46
1	iF	173	ARG	CD-NE	5.37	1.53	1.46
1	j0	15	ILE	CB-CG1	5.37	1.64	1.53
1	j9	91	ILE	N-CA	5.37	1.52	1.46
1	jg	104	ILE	N-CA	5.37	1.52	1.46
1	jF	173	ARG	CD-NE	5.37	1.53	1.46
1	jT	226	HIS	CG-ND1	-5.37	1.32	1.38
1	jU	39	MET	CA-C	5.37	1.59	1.52
1	kg	65	ALA	C-O	-5.37	1.17	1.24
1	kl	167	ARG	NE-CZ	-5.37	1.27	1.33
1	ky	50	GLN	CA-C	5.37	1.60	1.52
1	kS	15	ILE	CA-CB	5.37	1.61	1.54
1	kY	76	GLU	C-N	5.37	1.41	1.33
1	ld	172	LEU	CA-C	-5.37	1.45	1.52
1	ln	132	ARG	CD-NE	5.37	1.53	1.46
1	lw	143	ARG	CZ-NH2	-5.37	1.26	1.33
1	lK	178	SER	N-CA	-5.37	1.39	1.46
1	lL	72	THR	CB-OG1	-5.37	1.35	1.43
1	2F	53	ASN	CA-C	5.37	1.60	1.52
1	2I	93	PRO	N-CA	-5.37	1.40	1.47
1	2R	95	GLN	CA-CB	5.37	1.61	1.53
1	3i	76	GLU	CA-C	-5.37	1.45	1.52
1	3j	204	ALA	N-CA	5.37	1.52	1.46
1	3W	26	VAL	N-CA	5.37	1.52	1.46
1	41	53	ASN	N-CA	-5.37	1.39	1.46
1	44	171	THR	CA-C	-5.37	1.45	1.52
1	45	13	GLN	N-CA	5.37	1.52	1.46
1	4h	110	THR	C-N	5.37	1.41	1.33
1	50	143	ARG	CD-NE	5.37	1.53	1.46
1	55	75	GLU	C-N	5.37	1.41	1.33
1	58	116	GLY	CA-C	-5.37	1.45	1.52
1	5f	74	ASN	N-CA	-5.37	1.40	1.46
1	5C	173	ARG	CD-NE	5.37	1.53	1.46
1	5F	38	PRO	C-N	5.37	1.41	1.33
1	5V	112	GLN	C-O	-5.37	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6c	66	MET	SD-CE	5.37	1.93	1.79
1	6j	93	PRO	CA-CB	5.37	1.61	1.53
1	6o	52	LEU	CA-CB	5.37	1.61	1.53
1	6s	86	VAL	C-O	-5.37	1.17	1.24
1	6s	132	ARG	CZ-NH2	-5.37	1.26	1.33
1	6H	102	SER	C-N	5.37	1.41	1.33
1	6Q	224	PRO	N-CD	-5.37	1.40	1.47
1	6W	82	ARG	N-CA	-5.37	1.39	1.46
1	6Y	73	ILE	CA-CB	-5.37	1.47	1.54
1	6Y	212	GLU	C-N	5.37	1.41	1.33
1	78	194	ALA	CA-C	5.37	1.60	1.52
1	7b	67	GLN	CA-C	-5.37	1.46	1.52
1	7y	139	ASN	CA-C	-5.37	1.46	1.52
1	7G	45	GLU	CA-CB	5.37	1.62	1.53
1	7V	3	VAL	N-CA	5.37	1.51	1.46
1	7Y	231	LEU	CA-CB	5.37	1.64	1.53
1	8q	39	MET	CA-C	-5.37	1.45	1.52
1	8y	184	TRP	N-CA	-5.37	1.39	1.46
1	8P	84	HIS	CG-ND1	5.37	1.44	1.38
1	8Y	168	PHE	CA-C	5.37	1.60	1.52
1	9a	151	LEU	CA-C	5.37	1.60	1.52
1	9p	134	ILE	CA-CB	5.37	1.60	1.54
1	9G	143	ARG	CD-NE	5.37	1.53	1.46
1	Y	87	HIS	CA-C	5.37	1.59	1.52
1	Z	121	ASN	CA-CB	5.37	1.64	1.54
1	ah	26	VAL	CA-CB	5.37	1.61	1.54
1	ak	82	ARG	CD-NE	5.37	1.53	1.46
1	aF	84	HIS	CA-CB	5.37	1.60	1.53
1	aN	26	VAL	CA-CB	-5.37	1.48	1.54
1	ba	181	VAL	N-CA	-5.37	1.39	1.46
1	be	96	MET	CA-CB	5.37	1.62	1.53
1	bq	141	ILE	C-O	-5.37	1.17	1.24
1	bF	37	ILE	CA-C	-5.37	1.47	1.52
1	bP	27	VAL	CA-CB	5.37	1.61	1.54
1	cl	120	HIS	C-N	5.37	1.40	1.33
1	cr	230	VAL	N-CA	5.37	1.53	1.46
1	dp	8	GLY	C-O	-5.37	1.19	1.24
1	dB	192	GLN	CA-CB	5.37	1.62	1.53
1	dL	215	MET	CA-C	-5.37	1.45	1.52
1	dW	51	ASP	C-O	-5.37	1.17	1.24
1	e6	198	CYS	CA-C	5.37	1.60	1.52
1	es	152	ASP	CA-CB	5.37	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eH	185	MET	CA-C	5.37	1.59	1.52
1	eZ	172	LEU	C-N	5.37	1.40	1.33
1	f4	199	LYS	C-N	5.37	1.40	1.33
1	f7	186	THR	C-N	5.37	1.41	1.33
1	1v	35	GLU	C-N	5.37	1.40	1.33
1	1x	28	GLU	CA-CB	5.37	1.62	1.53
1	fy	215	MET	CA-CB	5.37	1.62	1.53
1	fM	147	PRO	N-CA	-5.37	1.40	1.47
1	g3	65	ALA	CA-CB	5.37	1.61	1.53
1	v	109	SER	C-N	5.37	1.40	1.33
1	D	136	LEU	CA-CB	5.37	1.61	1.53
1	W	195	ASN	CA-CB	5.37	1.61	1.53
1	7	146	SER	C-O	-5.37	1.17	1.24
1	ga	210	THR	N-CA	5.37	1.52	1.45
1	gt	205	LEU	C-N	5.37	1.41	1.33
1	1F	45	GLU	N-CA	-5.37	1.39	1.46
1	hQ	99	PRO	CA-CB	-5.37	1.46	1.53
1	hT	37	ILE	CA-C	-5.37	1.47	1.52
1	i1	93	PRO	CA-C	-5.37	1.44	1.52
1	i1	163	ASP	N-CA	-5.37	1.39	1.46
1	ie	193	ASN	CA-CB	5.37	1.62	1.53
1	iy	173	ARG	CA-C	5.37	1.59	1.52
1	jg	70	LYS	CA-C	5.37	1.59	1.52
1	1V	131	LYS	N-CA	-5.37	1.39	1.46
1	jn	138	LEU	CA-C	-5.37	1.45	1.52
1	jz	155	GLN	N-CA	5.37	1.52	1.45
1	jP	123	PRO	C-N	5.37	1.39	1.33
1	ka	105	ALA	C-N	5.37	1.41	1.33
1	kc	158	LYS	N-CA	-5.37	1.39	1.46
1	kn	48	THR	CA-CB	5.37	1.61	1.53
1	ks	179	GLN	CA-CB	5.37	1.61	1.53
1	kv	105	ALA	CA-CB	5.37	1.62	1.53
1	kF	57	ASN	N-CA	5.37	1.52	1.46
1	kK	204	ALA	CA-C	5.37	1.60	1.52
1	kP	74	ASN	C-N	5.37	1.40	1.33
1	ln	116	GLY	N-CA	5.37	1.52	1.45
1	lp	124	ILE	N-CA	-5.37	1.42	1.46
1	2t	82	ARG	CA-C	5.37	1.60	1.52
1	2D	190	LEU	N-CA	5.37	1.52	1.46
1	2G	58	THR	C-N	5.37	1.39	1.33
1	2J	193	ASN	CA-C	5.37	1.59	1.52
1	2L	21	ASN	CA-C	5.37	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2N	161	PHE	CA-C	5.37	1.59	1.52
1	32	2	ILE	N-CA	-5.37	1.40	1.46
1	3p	110	THR	CA-C	5.37	1.60	1.53
1	3r	132	ARG	CA-C	5.37	1.59	1.52
1	3t	145	TYR	CZ-OH	5.37	1.49	1.38
1	3x	37	ILE	CA-CB	-5.37	1.50	1.53
1	3A	225	GLY	CA-C	-5.37	1.44	1.51
1	3B	172	LEU	C-N	5.37	1.41	1.33
1	3H	143	ARG	CD-NE	5.37	1.53	1.46
1	49	45	GLU	CA-C	5.37	1.59	1.52
1	4a	173	ARG	CZ-NH1	-5.37	1.25	1.32
1	4o	122	PRO	N-CD	5.37	1.55	1.47
1	4r	150	ILE	C-N	5.37	1.40	1.33
1	4T	63	GLN	C-N	5.37	1.40	1.33
1	56	75	GLU	C-N	5.37	1.41	1.33
1	5d	214	MET	CA-C	5.37	1.60	1.52
1	5v	12	HIS	CE1-NE2	-5.37	1.27	1.32
1	5L	135	ILE	N-CA	5.37	1.52	1.46
1	6f	44	SER	CA-CB	5.37	1.60	1.53
1	6j	230	VAL	CA-C	5.37	1.60	1.52
1	6k	192	GLN	CA-C	-5.37	1.45	1.52
1	6n	106	GLY	CA-C	-5.37	1.44	1.51
1	6o	139	ASN	CA-C	5.37	1.59	1.52
1	6A	20	LEU	N-CA	-5.37	1.40	1.46
1	6C	45	GLU	CA-CB	5.37	1.59	1.53
1	6J	163	ASP	CA-C	5.37	1.59	1.52
1	6V	199	LYS	N-CA	-5.37	1.39	1.46
1	71	144	MET	N-CA	5.37	1.52	1.46
1	7k	95	GLN	CA-C	-5.37	1.46	1.52
1	7o	46	GLY	C-O	-5.37	1.16	1.24
1	7A	59	VAL	CA-C	5.37	1.59	1.52
1	7C	20	LEU	CA-C	-5.37	1.45	1.52
1	8n	173	ARG	CD-NE	5.37	1.53	1.46
1	8q	136	LEU	C-O	-5.37	1.18	1.24
1	8r	33	SER	C-N	5.37	1.40	1.33
1	8x	64	ALA	N-CA	-5.37	1.39	1.46
1	8y	89	GLY	C-N	-5.37	1.27	1.33
1	8C	40	PHE	C-N	5.37	1.40	1.33
1	8L	69	LEU	CA-CB	5.37	1.61	1.53
1	8P	40	PHE	CA-CB	5.37	1.61	1.53
1	8X	56	LEU	C-N	5.37	1.41	1.33
1	9g	231	LEU	CB-CG	5.37	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9E	192	GLN	N-CA	-5.37	1.40	1.46
1	9H	87	HIS	CA-C	-5.37	1.45	1.52
1	9S	36	VAL	CA-CB	5.37	1.61	1.54
1	9S	144	MET	C-O	-5.37	1.17	1.24
1	ad	167	ARG	NE-CZ	-5.37	1.27	1.33
1	aw	93	PRO	CA-CB	5.37	1.60	1.53
1	az	162	ARG	CA-C	-5.37	1.45	1.52
1	aE	135	ILE	N-CA	5.37	1.52	1.46
1	aI	30	LYS	CA-CB	5.37	1.61	1.53
1	aT	65	ALA	CA-CB	5.37	1.61	1.53
1	bM	200	THR	N-CA	5.37	1.52	1.46
1	bN	116	GLY	C-N	5.37	1.40	1.33
1	cv	104	ILE	C-N	5.37	1.41	1.33
1	cx	88	ALA	C-N	5.37	1.41	1.33
1	cB	139	ASN	CA-CB	5.37	1.61	1.53
1	cT	84	HIS	ND1-CE1	5.37	1.38	1.32
1	d8	85	PRO	C-O	5.37	1.30	1.23
1	dn	163	ASP	CA-CB	5.37	1.61	1.53
1	dE	229	ARG	CD-NE	5.37	1.53	1.46
1	dG	141	ILE	CA-C	5.37	1.59	1.52
1	dQ	144	MET	C-N	5.37	1.41	1.33
1	dW	226	HIS	C-O	-5.37	1.18	1.24
1	dZ	145	TYR	CA-C	5.37	1.60	1.52
1	e2	177	ALA	CA-CB	5.37	1.62	1.53
1	ef	147	PRO	C-N	5.37	1.40	1.33
1	eu	1	PRO	N-CD	5.37	1.55	1.47
1	eB	75	GLU	N-CA	-5.37	1.39	1.46
1	eI	103	ASP	CA-CB	5.37	1.61	1.53
1	fr	88	ALA	CA-C	5.37	1.59	1.52
1	fv	136	LEU	CA-CB	5.37	1.61	1.53
1	fW	203	LYS	C-N	5.37	1.41	1.34
1	fY	203	LYS	CA-C	5.37	1.59	1.52
1	g	33	SER	N-CA	-5.37	1.41	1.45
1	M	226	HIS	CD2-NE2	5.37	1.43	1.37
1	gX	222	GLY	N-CA	5.37	1.53	1.45
1	h1	64	ALA	C-O	-5.37	1.17	1.24
1	1N	148	THR	N-CA	5.37	1.52	1.46
1	jl	134	ILE	CA-CB	5.37	1.60	1.54
1	ju	5	ASN	CA-CB	5.37	1.60	1.53
1	kB	109	SER	N-CA	5.37	1.52	1.45
1	lC	87	HIS	CB-CG	-5.37	1.42	1.50
1	lL	226	HIS	CA-CB	5.37	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2T	174	ALA	C-N	5.37	1.40	1.33
1	2V	87	HIS	C-N	5.37	1.40	1.33
1	3t	131	LYS	C-O	-5.37	1.17	1.24
1	3u	97	ARG	CZ-NH2	-5.37	1.26	1.33
1	3H	166	ASP	C-N	5.37	1.40	1.33
1	3R	162	ARG	N-CA	-5.37	1.39	1.46
1	4D	200	THR	CA-C	5.37	1.60	1.52
1	56	120	HIS	CD2-NE2	-5.37	1.31	1.37
1	5v	175	GLU	C-N	5.37	1.40	1.33
1	5D	51	ASP	N-CA	-5.37	1.39	1.46
1	5Q	88	ALA	CA-C	5.37	1.59	1.52
1	63	226	HIS	ND1-CE1	5.37	1.38	1.32
1	6u	187	GLU	CA-CB	5.37	1.62	1.53
1	6O	72	THR	C-N	5.37	1.40	1.33
1	7j	138	LEU	CA-C	5.37	1.59	1.52
1	7r	188	THR	CA-C	-5.37	1.45	1.52
1	9o	82	ARG	CA-C	5.37	1.59	1.52
1	a8	167	ARG	CD-NE	5.37	1.53	1.46
1	10	79	GLU	CA-C	-5.37	1.45	1.52
1	ae	27	VAL	CA-CB	5.37	1.61	1.54
1	au	195	ASN	CA-C	5.37	1.59	1.53
1	av	197	ASP	CA-CB	5.37	1.61	1.53
1	aH	114	GLN	CA-C	5.37	1.59	1.52
1	b0	217	ALA	CA-C	5.37	1.60	1.52
1	ba	32	PHE	CA-C	-5.37	1.45	1.52
1	bs	154	ARG	N-CA	5.37	1.52	1.45
1	bS	126	VAL	CA-C	5.37	1.59	1.52
1	cp	101	GLY	CA-C	5.37	1.58	1.52
1	d9	162	ARG	N-CA	-5.37	1.39	1.46
1	ds	174	ALA	C-N	5.37	1.40	1.33
1	fh	190	LEU	N-CA	-5.37	1.39	1.46
1	1w	21	ASN	CA-C	5.37	1.59	1.52
1	fA	161	PHE	C-N	5.37	1.40	1.33
1	fK	126	VAL	C-N	5.37	1.40	1.33
1	h	16	SER	CA-CB	5.37	1.62	1.53
1	A	92	GLU	N-CA	-5.37	1.39	1.46
1	E	40	PHE	CA-C	5.37	1.59	1.52
1	G	50	GLN	N-CA	-5.37	1.39	1.46
1	G	182	LYS	CA-C	-5.37	1.45	1.52
1	1C	1	PRO	N-CD	5.37	1.55	1.47
1	1C	98	GLU	CA-CB	5.37	1.62	1.53
1	gj	203	LYS	N-CA	-5.37	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gq	75	GLU	N-CA	5.37	1.52	1.46
1	gq	115	ILE	N-CA	5.37	1.52	1.46
1	gs	75	GLU	CA-C	-5.37	1.46	1.52
1	gs	110	THR	N-CA	5.37	1.52	1.45
1	gz	53	ASN	C-N	5.37	1.41	1.33
1	1F	69	LEU	C-O	-5.37	1.18	1.24
1	gO	167	ARG	NE-CZ	5.37	1.39	1.33
1	h1	18	ARG	CA-C	5.37	1.59	1.52
1	h4	212	GLU	C-N	5.37	1.41	1.33
1	hd	141	ILE	CA-C	-5.37	1.46	1.52
1	hg	76	GLU	CA-C	-5.37	1.45	1.52
1	hv	130	TYR	CA-CB	5.37	1.61	1.53
1	hy	100	ARG	CD-NE	5.37	1.53	1.46
1	hG	167	ARG	CD-NE	5.37	1.53	1.46
1	hG	229	ARG	CD-NE	5.37	1.53	1.46
1	hX	126	VAL	N-CA	-5.37	1.40	1.46
1	i5	84	HIS	C-N	-5.37	1.26	1.33
1	ic	216	THR	N-CA	5.37	1.53	1.46
1	id	217	ALA	N-CA	5.37	1.52	1.45
1	iq	18	ARG	N-CA	5.37	1.52	1.46
1	ir	159	GLU	CA-C	5.37	1.59	1.52
1	iA	85	PRO	CA-CB	-5.37	1.46	1.53
1	iX	193	ASN	C-N	5.37	1.40	1.33
1	1U	141	ILE	N-CA	-5.37	1.40	1.46
1	jB	187	GLU	N-CA	-5.37	1.39	1.46
1	1Z	229	ARG	CD-NE	5.37	1.53	1.46
1	kd	62	HIS	ND1-CE1	5.37	1.38	1.32
1	km	120	HIS	CG-CD2	5.37	1.41	1.35
1	kp	66	MET	N-CA	5.37	1.52	1.46
1	kT	109	SER	CA-C	5.37	1.59	1.52
1	kY	184	TRP	N-CA	5.37	1.53	1.46
1	l8	150	ILE	CA-C	5.37	1.59	1.52
1	l9	128	GLU	CA-C	-5.37	1.45	1.52
1	lB	170	LYS	N-CA	-5.37	1.39	1.46
1	lH	127	GLY	N-CA	5.37	1.52	1.45
1	lM	188	THR	C-N	5.37	1.41	1.33
1	2q	125	PRO	CA-C	5.37	1.57	1.53
1	2w	26	VAL	CA-CB	5.37	1.61	1.54
1	30	151	LEU	CA-CB	5.37	1.62	1.53
1	3P	225	GLY	CA-C	-5.37	1.44	1.51
1	4j	108	THR	CA-C	-5.37	1.45	1.52
1	4o	61	GLY	CA-C	-5.37	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4p	191	VAL	C-N	5.37	1.41	1.34
1	4x	49	PRO	C-N	5.37	1.40	1.33
1	4A	116	GLY	N-CA	-5.37	1.38	1.45
1	4A	196	PRO	C-O	-5.37	1.17	1.24
1	4F	124	ILE	CB-CG1	5.37	1.64	1.53
1	4U	219	GLN	CA-CB	5.37	1.62	1.53
1	4V	41	SER	C-N	5.37	1.40	1.33
1	5b	178	SER	N-CA	-5.37	1.39	1.46
1	5q	110	THR	N-CA	5.37	1.52	1.45
1	5s	27	VAL	CA-C	-5.37	1.46	1.52
1	5x	131	LYS	CA-CB	5.37	1.61	1.53
1	5A	92	GLU	N-CA	5.37	1.53	1.46
1	5O	25	LYS	N-CA	-5.37	1.39	1.46
1	5P	211	LEU	N-CA	-5.37	1.39	1.46
1	68	158	LYS	CA-C	5.37	1.60	1.52
1	6a	195	ASN	C-N	5.37	1.40	1.34
1	6w	141	ILE	CA-CB	-5.37	1.47	1.54
1	6T	213	GLU	CA-CB	5.37	1.61	1.53
1	7e	88	ALA	C-N	5.37	1.41	1.33
1	7e	124	ILE	N-CA	-5.37	1.41	1.46
1	7E	4	GLN	CA-CB	5.37	1.61	1.53
1	7L	198	CYS	C-N	5.37	1.41	1.33
1	7T	58	THR	CA-C	5.37	1.60	1.52
1	7U	156	GLY	N-CA	5.37	1.52	1.44
1	8b	230	VAL	C-N	5.37	1.40	1.33
1	8Q	31	ALA	CA-CB	5.37	1.62	1.53
1	9j	33	SER	CA-C	5.37	1.58	1.53
1	9o	146	SER	CA-CB	5.37	1.61	1.53
1	9F	77	ALA	CA-CB	5.37	1.61	1.53
1	a8	82	ARG	CA-C	-5.37	1.45	1.52
1	an	145	TYR	C-O	-5.37	1.17	1.24
1	12	52	LEU	N-CA	-5.37	1.39	1.46
1	aD	11	VAL	C-N	5.37	1.40	1.33
1	aS	225	GLY	N-CA	5.37	1.51	1.45
1	bc	31	ALA	N-CA	-5.37	1.39	1.46
1	bf	169	TYR	N-CA	-5.37	1.40	1.46
1	bg	142	VAL	N-CA	5.37	1.52	1.46
1	1a	229	ARG	C-O	5.37	1.30	1.23
1	bT	105	ALA	CA-CB	-5.37	1.44	1.53
1	c0	165	VAL	CA-CB	-5.37	1.47	1.54
1	ca	41	SER	CA-CB	5.37	1.61	1.53
1	ce	102	SER	C-O	-5.37	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ch	37	ILE	CA-C	5.37	1.57	1.52
1	cx	173	ARG	CD-NE	5.37	1.53	1.46
1	cM	226	HIS	ND1-CE1	5.37	1.38	1.32
1	du	204	ALA	CA-CB	5.37	1.61	1.53
1	dL	24	VAL	C-N	5.37	1.40	1.33
1	dX	178	SER	C-N	5.37	1.41	1.33
1	1q	128	GLU	C-N	5.37	1.40	1.33
1	eA	162	ARG	CA-CB	5.37	1.61	1.53
1	eC	159	GLU	CA-CB	5.37	1.61	1.52
1	eE	15	ILE	N-CA	-5.37	1.39	1.46
1	f2	118	MET	CA-CB	5.37	1.61	1.53
1	f9	142	VAL	C-O	-5.37	1.17	1.24
1	fs	10	MET	CA-CB	5.37	1.60	1.53
1	fD	172	LEU	CA-C	5.37	1.59	1.52
1	fO	200	THR	CA-CB	5.37	1.61	1.53
1	fU	203	LYS	CA-C	-5.37	1.45	1.52
1	1B	183	ASN	C-N	5.37	1.41	1.33
1	l	138	LEU	N-CA	-5.37	1.39	1.46
1	o	226	HIS	C-N	5.37	1.40	1.33
1	s	19	THR	C-N	5.37	1.40	1.33
1	W	144	MET	N-CA	5.37	1.53	1.46
1	7	72	THR	CA-C	-5.37	1.46	1.52
1	9	95	GLN	CA-C	5.37	1.59	1.52
1	gf	230	VAL	CA-CB	-5.37	1.48	1.54
1	gy	144	MET	N-CA	5.37	1.53	1.46
1	1G	38	PRO	N-CD	-5.37	1.40	1.47
1	1I	147	PRO	C-N	5.37	1.40	1.33
1	hs	215	MET	C-O	-5.37	1.17	1.24
1	hy	60	GLY	N-CA	5.37	1.53	1.45
1	hN	98	GLU	CA-C	-5.37	1.46	1.52
1	i9	159	GLU	CA-CB	5.37	1.61	1.53
1	i9	216	THR	CA-C	-5.37	1.45	1.52
1	ir	167	ARG	N-CA	5.37	1.53	1.46
1	iF	117	TRP	CD1-NE1	5.37	1.49	1.37
1	j3	84	HIS	CE1-NE2	5.37	1.38	1.32
1	ji	171	THR	C-O	-5.37	1.18	1.24
1	jj	195	ASN	N-CA	-5.37	1.38	1.45
1	jn	130	TYR	C-N	5.37	1.41	1.33
1	jy	199	LYS	CA-CB	5.37	1.61	1.53
1	lv	181	VAL	CA-CB	-5.37	1.48	1.54
1	lA	183	ASN	CA-CB	5.37	1.61	1.53
1	lP	165	VAL	CA-CB	-5.37	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lR	142	VAL	CA-CB	5.37	1.61	1.54
1	2H	191	VAL	N-CA	5.37	1.52	1.46
1	3I	129	ILE	C-N	5.37	1.41	1.33
1	3X	77	ALA	CA-C	5.37	1.59	1.52
1	47	21	ASN	CA-CB	5.37	1.61	1.53
1	4d	102	SER	CA-C	5.37	1.59	1.52
1	4i	143	ARG	CD-NE	5.37	1.53	1.46
1	4k	29	GLU	CA-C	5.37	1.59	1.52
1	58	19	THR	CA-C	-5.37	1.45	1.52
1	6k	54	THR	C-N	5.37	1.40	1.33
1	7r	86	VAL	N-CA	5.37	1.52	1.46
1	7F	35	GLU	C-N	-5.37	1.27	1.33
1	7Z	100	ARG	CD-NE	5.37	1.53	1.46
1	8t	16	SER	CA-C	-5.37	1.47	1.53
1	8Y	191	VAL	C-O	-5.37	1.16	1.24
1	98	50	GLN	CA-CB	5.37	1.61	1.53
1	9q	31	ALA	C-O	-5.37	1.17	1.24
1	9B	123	PRO	C-N	5.37	1.38	1.33
1	ai	86	VAL	CA-C	-5.37	1.46	1.52
1	aA	72	THR	CA-C	-5.37	1.45	1.52
1	aF	122	PRO	C-N	5.37	1.40	1.33
1	16	20	LEU	C-N	5.37	1.40	1.33
1	17	221	VAL	N-CA	5.37	1.52	1.46
1	bx	30	LYS	N-CA	5.37	1.53	1.46
1	bV	15	ILE	C-O	-5.37	1.18	1.24
1	cg	162	ARG	CA-CB	5.37	1.61	1.53
1	ct	138	LEU	CA-CB	5.37	1.62	1.53
1	cB	150	ILE	CA-CB	-5.37	1.48	1.54
1	cY	96	MET	CA-CB	5.37	1.61	1.53
1	dw	143	ARG	CA-C	-5.37	1.45	1.52
1	dF	118	MET	C-N	5.37	1.40	1.33
1	dK	40	PHE	C-N	5.37	1.41	1.33
1	eA	114	GLN	N-CA	5.37	1.52	1.46
1	fi	47	ALA	N-CA	-5.37	1.39	1.46
1	fS	159	GLU	N-CA	-5.37	1.38	1.46
1	fZ	23	TRP	C-N	5.37	1.40	1.33
1	Q	37	ILE	CB-CG1	5.37	1.64	1.53
1	gw	21	ASN	CA-CB	5.37	1.61	1.53
1	gw	84	HIS	ND1-CE1	5.37	1.38	1.32
1	gR	229	ARG	CA-C	5.37	1.59	1.52
1	gS	88	ALA	C-N	5.37	1.41	1.33
1	gT	159	GLU	CA-C	5.37	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gX	56	LEU	CA-C	5.37	1.59	1.52
1	h0	84	HIS	CG-CD2	-5.37	1.29	1.35
1	h5	219	GLN	CA-C	-5.37	1.45	1.52
1	ho	168	PHE	CA-C	5.37	1.59	1.52
1	hp	58	THR	CA-C	5.37	1.60	1.52
1	hr	11	VAL	N-CA	5.37	1.52	1.46
1	hu	56	LEU	CA-CB	5.37	1.61	1.53
1	hA	87	HIS	CG-ND1	-5.37	1.32	1.38
1	iz	131	LYS	CA-CB	5.37	1.62	1.53
1	iJ	66	MET	C-N	5.37	1.41	1.33
1	jh	228	ALA	CA-C	5.37	1.59	1.52
1	jz	109	SER	N-CA	-5.37	1.39	1.46
1	jV	78	ALA	N-CA	5.37	1.52	1.46
1	1Z	18	ARG	NE-CZ	5.37	1.39	1.33
1	kQ	42	ALA	CA-C	-5.37	1.45	1.52
1	kW	62	HIS	CA-C	-5.37	1.46	1.53
1	lg	62	HIS	ND1-CE1	5.37	1.38	1.32
1	27	103	ASP	C-N	5.37	1.40	1.33
1	ls	17	PRO	N-CD	-5.37	1.40	1.47
1	lt	225	GLY	CA-C	5.37	1.58	1.51
1	lI	129	ILE	CA-C	5.37	1.59	1.52
1	lJ	51	ASP	N-CA	5.37	1.52	1.46
1	2z	3	VAL	CA-C	-5.37	1.46	1.52
1	2z	82	ARG	NE-CZ	-5.37	1.27	1.33
1	34	85	PRO	CA-CB	5.37	1.61	1.53
1	3d	183	ASN	CA-C	5.37	1.59	1.52
1	3i	3	VAL	CA-C	-5.37	1.46	1.52
1	3q	70	LYS	C-N	5.37	1.41	1.33
1	3I	122	PRO	C-N	5.37	1.39	1.33
1	4q	84	HIS	CA-C	5.37	1.58	1.52
1	4I	55	MET	C-O	-5.37	1.17	1.24
1	4J	120	HIS	CB-CG	5.37	1.57	1.50
1	57	64	ALA	N-CA	-5.37	1.39	1.46
1	5w	201	ILE	C-N	5.37	1.41	1.33
1	5G	36	VAL	CA-C	5.37	1.59	1.52
1	5K	227	LYS	CA-CB	5.37	1.61	1.53
1	67	57	ASN	N-CA	5.37	1.52	1.46
1	68	120	HIS	C-N	5.37	1.39	1.33
1	6b	190	LEU	C-N	5.37	1.40	1.33
1	6m	91	ILE	CA-CB	5.37	1.60	1.54
1	6B	192	GLN	CA-CB	5.37	1.61	1.53
1	6L	48	THR	N-CA	5.37	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	76	62	HIS	C-N	5.37	1.41	1.34
1	7e	124	ILE	CA-C	5.37	1.57	1.52
1	7k	197	ASP	C-N	5.37	1.41	1.33
1	7m	114	GLN	N-CA	5.37	1.52	1.46
1	7y	224	PRO	CA-C	-5.37	1.44	1.52
1	7L	84	HIS	CA-C	5.37	1.59	1.52
1	7V	74	ASN	N-CA	-5.37	1.39	1.46
1	7V	135	ILE	N-CA	5.37	1.52	1.46
1	84	126	VAL	CA-C	5.37	1.60	1.52
1	85	13	GLN	N-CA	5.37	1.52	1.45
1	8x	119	THR	CB-OG1	-5.37	1.35	1.43
1	8H	131	LYS	N-CA	-5.37	1.39	1.46
1	8X	158	LYS	CA-CB	5.37	1.61	1.53
1	8X	171	THR	N-CA	5.37	1.52	1.46
1	9b	228	ALA	C-O	-5.37	1.17	1.24
1	9k	230	VAL	CA-C	5.37	1.58	1.52
1	9R	197	ASP	C-N	5.37	1.40	1.33
1	ak	136	LEU	C-N	5.37	1.40	1.33
1	au	214	MET	N-CA	-5.37	1.39	1.46
1	aL	55	MET	C-N	5.37	1.41	1.33
1	aP	85	PRO	CA-C	5.37	1.60	1.52
1	aS	136	LEU	N-CA	5.37	1.52	1.46
1	aV	226	HIS	ND1-CE1	5.37	1.38	1.32
1	be	133	TRP	N-CA	5.37	1.52	1.46
1	bv	204	ALA	C-N	5.37	1.41	1.33
1	bU	129	ILE	CA-CB	-5.37	1.47	1.54
1	c7	58	THR	CA-CB	5.37	1.62	1.53
1	cg	100	ARG	CA-C	-5.37	1.45	1.53
1	cC	22	ALA	C-O	-5.37	1.18	1.24
1	cM	219	GLN	CA-CB	5.37	1.62	1.54
1	cO	32	PHE	CA-CB	5.37	1.60	1.53
1	cS	9	GLN	CA-CB	5.37	1.60	1.53
1	1h	24	VAL	N-CA	-5.37	1.40	1.46
1	cY	95	GLN	N-CA	-5.37	1.39	1.45
1	de	162	ARG	CA-CB	5.37	1.62	1.53
1	dn	53	ASN	N-CA	5.37	1.52	1.46
1	dt	9	GLN	C-N	-5.37	1.26	1.33
1	dx	132	ARG	CA-C	-5.37	1.45	1.52
1	dS	55	MET	CA-C	-5.37	1.46	1.52
1	dS	120	HIS	CA-CB	5.37	1.62	1.53
1	er	41	SER	CA-CB	5.37	1.61	1.53
1	eD	91	ILE	C-O	-5.37	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eL	158	LYS	CA-CB	5.37	1.61	1.53
1	eP	98	GLU	CA-C	5.37	1.59	1.52
1	eT	25	LYS	CA-C	5.37	1.59	1.52
1	f1	175	GLU	N-CA	-5.37	1.39	1.46
1	fa	40	PHE	CA-CB	5.37	1.61	1.53
1	fi	26	VAL	CA-CB	5.37	1.61	1.54
1	fj	73	ILE	CA-C	-5.37	1.46	1.52
1	ft	153	ILE	N-CA	-5.37	1.39	1.46
1	fP	116	GLY	CA-C	-5.37	1.45	1.51
1	fQ	116	GLY	CA-C	5.37	1.58	1.52
1	g1	104	ILE	N-CA	-5.37	1.40	1.46
1	g1	161	PHE	CA-C	5.37	1.59	1.52
1	2	203	LYS	CA-CB	5.37	1.61	1.53
1	N	114	GLN	C-O	-5.37	1.17	1.24
1	O	139	ASN	N-CA	-5.37	1.40	1.46
1	P	80	TRP	CA-C	5.37	1.59	1.52
1	gv	13	GLN	CA-C	-5.36	1.45	1.52
1	gx	154	ARG	C-N	5.36	1.40	1.33
1	gR	19	THR	CA-CB	5.36	1.61	1.53
1	gV	49	PRO	CA-C	5.36	1.60	1.52
1	ho	84	HIS	ND1-CE1	5.36	1.38	1.32
1	hD	56	LEU	N-CA	-5.36	1.39	1.46
1	hK	56	LEU	CA-CB	5.36	1.61	1.53
1	hO	189	LEU	CA-C	-5.36	1.45	1.52
1	hW	63	GLN	CA-CB	5.36	1.62	1.53
1	ih	219	GLN	C-N	5.36	1.41	1.33
1	1R	82	ARG	CA-C	-5.36	1.46	1.52
1	j3	174	ALA	CA-C	5.36	1.59	1.52
1	j6	171	THR	CA-C	-5.36	1.45	1.52
1	j8	211	LEU	C-O	-5.36	1.17	1.24
1	jJ	97	ARG	CA-CB	5.36	1.62	1.53
1	jV	90	PRO	CA-CB	5.36	1.61	1.53
1	k5	21	ASN	N-CA	5.36	1.53	1.46
1	k8	53	ASN	N-CA	-5.36	1.39	1.46
1	20	195	ASN	CA-C	5.36	1.59	1.53
1	kb	78	ALA	CA-C	5.36	1.59	1.52
1	kp	109	SER	C-N	5.36	1.40	1.33
1	kr	127	GLY	CA-C	-5.36	1.46	1.52
1	ky	112	GLN	CA-CB	5.36	1.61	1.53
1	kF	66	MET	C-N	5.36	1.41	1.33
1	kR	26	VAL	C-N	-5.36	1.27	1.33
1	lp	7	GLN	CA-C	-5.36	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lp	86	VAL	CA-C	5.36	1.59	1.53
1	lq	123	PRO	CA-C	-5.36	1.46	1.52
1	lC	47	ALA	C-N	5.36	1.42	1.33
1	lE	136	LEU	C-N	5.36	1.41	1.33
1	lH	119	THR	C-N	5.36	1.40	1.33
1	lH	146	SER	CA-CB	5.36	1.61	1.53
1	lJ	144	MET	C-O	5.36	1.30	1.24
1	2e	131	LYS	N-CA	-5.36	1.40	1.46
1	2y	2	ILE	CA-C	5.36	1.59	1.52
1	3g	124	ILE	N-CA	5.36	1.51	1.46
1	3H	179	GLN	N-CA	5.36	1.52	1.46
1	3O	147	PRO	C-N	5.36	1.40	1.33
1	4g	205	LEU	CA-C	5.36	1.59	1.52
1	4G	131	LYS	N-CA	-5.36	1.39	1.46
1	4K	186	THR	C-O	5.36	1.31	1.24
1	4V	23	TRP	CZ2-CH2	5.36	1.47	1.37
1	59	197	ASP	N-CA	5.36	1.52	1.46
1	5t	35	GLU	C-N	5.36	1.40	1.33
1	5N	214	MET	CA-C	5.36	1.59	1.52
1	5Y	75	GLU	CA-CB	5.36	1.61	1.53
1	6i	10	MET	CA-CB	5.36	1.60	1.53
1	6i	31	ALA	CA-C	5.36	1.59	1.52
1	6H	10	MET	CA-C	5.36	1.59	1.52
1	76	182	LYS	N-CA	-5.36	1.39	1.46
1	7e	83	LEU	C-O	-5.36	1.17	1.24
1	7m	24	VAL	N-CA	-5.36	1.40	1.46
1	7x	206	GLY	N-CA	-5.36	1.37	1.44
1	7M	38	PRO	CA-CB	5.36	1.61	1.53
1	7W	193	ASN	CA-CB	5.36	1.62	1.53
1	80	37	ILE	CA-C	5.36	1.57	1.52
1	8c	56	LEU	CB-CG	5.36	1.64	1.53
1	8i	169	TYR	C-N	5.36	1.41	1.33
1	8k	35	GLU	C-N	5.36	1.40	1.33
1	8k	63	GLN	CA-CB	5.36	1.61	1.53
1	8s	104	ILE	CA-C	-5.36	1.46	1.52
1	8z	18	ARG	CD-NE	5.36	1.53	1.46
1	8V	211	LEU	CA-C	5.36	1.59	1.52
1	8W	49	PRO	CA-C	-5.36	1.44	1.52
1	9g	139	ASN	CA-C	5.36	1.59	1.52
1	9C	219	GLN	CA-CB	5.36	1.60	1.53
1	9M	209	ALA	CA-C	5.36	1.59	1.52
1	Y	189	LEU	N-CA	5.36	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9X	216	THR	CA-C	5.36	1.59	1.52
1	a4	41	SER	CA-CB	5.36	1.61	1.53
1	ab	12	HIS	CA-CB	5.36	1.60	1.53
1	ak	75	GLU	N-CA	-5.36	1.39	1.46
1	aR	160	PRO	CA-CB	5.36	1.60	1.53
1	15	164	TYR	CA-CB	5.36	1.61	1.53
1	b7	149	SER	C-O	5.36	1.30	1.23
1	17	63	GLN	C-N	5.36	1.41	1.34
1	bJ	18	ARG	CA-CB	5.36	1.61	1.53
1	c7	174	ALA	N-CA	5.36	1.52	1.46
1	cn	145	TYR	CA-CB	5.36	1.63	1.53
1	cB	224	PRO	CA-C	-5.36	1.46	1.52
1	cH	150	ILE	C-N	-5.36	1.26	1.33
1	cP	71	GLU	CA-CB	5.36	1.61	1.53
1	cP	130	TYR	CZ-OH	5.36	1.49	1.38
1	cR	17	PRO	C-O	-5.36	1.17	1.24
1	cU	75	GLU	CA-C	-5.36	1.46	1.52
1	cV	120	HIS	CB-CG	5.36	1.57	1.50
1	d4	71	GLU	N-CA	5.36	1.52	1.46
1	dc	191	VAL	C-O	-5.36	1.18	1.24
1	dh	112	GLN	N-CA	-5.36	1.39	1.46
1	di	95	GLN	C-O	-5.36	1.17	1.23
1	dk	176	GLN	C-N	5.36	1.41	1.33
1	du	155	GLN	N-CA	5.36	1.53	1.46
1	ea	178	SER	N-CA	5.36	1.52	1.46
1	eo	47	ALA	N-CA	5.36	1.52	1.46
1	et	34	PRO	C-N	5.36	1.41	1.33
1	eE	121	ASN	N-CA	-5.36	1.41	1.46
1	eK	142	VAL	C-O	-5.36	1.18	1.24
1	1y	26	VAL	CA-C	5.36	1.59	1.52
1	1y	229	ARG	CA-C	-5.36	1.45	1.52
1	fE	56	LEU	CA-C	5.36	1.59	1.52
1	fG	48	THR	C-N	-5.36	1.25	1.33
1	fT	120	HIS	CD2-NE2	5.36	1.43	1.37
1	1A	55	MET	C-N	5.36	1.41	1.33
1	fZ	118	MET	CA-CB	5.36	1.61	1.53
1	e	92	GLU	CA-C	5.36	1.58	1.52
1	g	25	LYS	CA-CB	5.36	1.62	1.53
1	m	187	GLU	CA-C	-5.36	1.45	1.52
1	o	87	HIS	CD2-NE2	5.36	1.43	1.37
1	D	162	ARG	CA-C	5.36	1.59	1.52
1	G	162	ARG	N-CA	5.36	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	114	GLN	CA-C	-5.36	1.46	1.52
1	S	96	MET	N-CA	-5.36	1.39	1.45
1	5	62	HIS	CA-C	-5.36	1.46	1.53
1	8	33	SER	C-O	-5.36	1.18	1.24
1	8	127	GLY	N-CA	5.36	1.52	1.45
1	9	64	ALA	CA-C	-5.36	1.45	1.52
1	gH	182	LYS	N-CA	-5.36	1.39	1.46
1	hi	139	ASN	CA-CB	5.36	1.61	1.53
1	1J	18	ARG	CZ-NH2	-5.36	1.26	1.33
1	hU	192	GLN	CA-C	5.36	1.59	1.52
1	ij	167	ARG	CA-C	-5.36	1.45	1.52
1	in	183	ASN	CA-CB	5.36	1.61	1.53
1	iM	77	ALA	C-N	5.36	1.41	1.33
1	iU	96	MET	CA-C	5.36	1.59	1.52
1	1X	86	VAL	C-N	5.36	1.40	1.33
1	jG	120	HIS	C-N	5.36	1.38	1.33
1	k5	221	VAL	N-CA	-5.36	1.40	1.46
1	km	69	LEU	N-CA	-5.36	1.40	1.46
1	24	23	TRP	NE1-CE2	-5.36	1.31	1.37
1	ly	108	THR	CA-C	5.36	1.59	1.52
1	2F	174	ALA	CA-CB	5.36	1.62	1.53
1	33	173	ARG	CD-NE	5.36	1.53	1.46
1	3J	59	VAL	CA-CB	-5.36	1.47	1.53
1	3N	90	PRO	CA-C	5.36	1.60	1.52
1	40	14	ALA	CA-C	5.36	1.60	1.53
1	4v	66	MET	N-CA	-5.36	1.39	1.46
1	4K	22	ALA	CA-C	5.36	1.59	1.52
1	4O	62	HIS	CD2-NE2	5.36	1.43	1.37
1	58	59	VAL	CA-CB	-5.36	1.47	1.54
1	5L	8	GLY	N-CA	5.36	1.51	1.45
1	5Q	176	GLN	C-N	5.36	1.40	1.33
1	5R	43	LEU	C-N	5.36	1.40	1.33
1	5W	38	PRO	C-N	5.36	1.41	1.33
1	6B	153	ILE	CA-C	5.36	1.59	1.52
1	73	154	ARG	N-CA	-5.36	1.39	1.45
1	7M	208	ALA	CA-C	5.36	1.59	1.52
1	7Q	17	PRO	CA-C	-5.36	1.44	1.52
1	8h	160	PRO	N-CA	-5.36	1.40	1.47
1	8x	152	ASP	N-CA	-5.36	1.39	1.46
1	8M	21	ASN	CA-CB	5.36	1.61	1.53
1	8V	85	PRO	C-O	5.36	1.30	1.23
1	90	79	GLU	CA-C	5.36	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	93	191	VAL	N-CA	-5.36	1.40	1.46
1	9d	168	PHE	CA-C	5.36	1.59	1.52
1	9n	50	GLN	CA-C	5.36	1.59	1.52
1	9X	29	GLU	CA-C	5.36	1.59	1.52
1	a4	185	MET	N-CA	5.36	1.52	1.46
1	a7	11	VAL	CA-CB	-5.36	1.47	1.54
1	ae	125	PRO	N-CD	5.36	1.55	1.47
1	bb	84	HIS	CG-ND1	5.36	1.44	1.38
1	17	133	TRP	CA-CB	5.36	1.61	1.53
1	bp	1	PRO	N-CD	5.36	1.55	1.47
1	br	114	GLN	C-N	5.36	1.40	1.33
1	18	180	GLU	CA-CB	-5.36	1.44	1.53
1	c6	87	HIS	CA-CB	5.36	1.62	1.53
1	cf	24	VAL	C-N	5.36	1.41	1.33
1	cH	183	ASN	C-N	5.36	1.40	1.33
1	cL	148	THR	CA-CB	5.36	1.62	1.53
1	d5	138	LEU	CA-C	-5.36	1.45	1.52
1	dE	12	HIS	ND1-CE1	5.36	1.38	1.32
1	dF	184	TRP	CG-CD2	5.36	1.53	1.43
1	dI	109	SER	CA-C	-5.36	1.46	1.52
1	ek	219	GLN	CA-CB	5.36	1.62	1.53
1	es	2	ILE	N-CA	-5.36	1.40	1.46
1	et	218	CYS	C-N	5.36	1.40	1.33
1	eF	63	GLN	C-N	5.36	1.41	1.33
1	eS	190	LEU	N-CA	5.36	1.52	1.46
1	eS	192	GLN	N-CA	5.36	1.52	1.46
1	f4	105	ALA	N-CA	-5.36	1.39	1.46
1	1v	2	ILE	N-CA	-5.36	1.39	1.46
1	fj	216	THR	N-CA	5.36	1.53	1.46
1	fD	209	ALA	CA-C	-5.36	1.45	1.52
1	g3	11	VAL	CA-C	-5.36	1.46	1.52
1	b	222	GLY	CA-C	-5.36	1.44	1.52
1	c	121	ASN	CA-C	5.36	1.58	1.52
1	g	171	THR	CA-C	5.36	1.59	1.52
1	1	147	PRO	CA-C	-5.36	1.44	1.52
1	n	159	GLU	N-CA	-5.36	1.38	1.46
1	F	84	HIS	N-CA	5.36	1.52	1.46
1	F	98	GLU	C-N	-5.36	1.27	1.33
1	J	116	GLY	N-CA	5.36	1.52	1.45
1	Q	133	TRP	C-N	5.36	1.40	1.33
1	g8	90	PRO	N-CA	-5.36	1.40	1.47
1	ga	88	ALA	CA-C	-5.36	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gi	94	GLY	C-N	5.36	1.41	1.33
1	gz	58	THR	C-N	5.36	1.38	1.33
1	gK	75	GLU	N-CA	5.36	1.52	1.46
1	gN	25	LYS	CA-C	5.36	1.59	1.52
1	ha	165	VAL	CA-C	5.36	1.59	1.52
1	hm	88	ALA	CA-C	5.36	1.58	1.52
1	hv	206	GLY	N-CA	5.36	1.52	1.44
1	hK	119	THR	CA-CB	5.36	1.61	1.53
1	hN	113	GLU	CA-C	5.36	1.59	1.52
1	hP	35	GLU	C-N	5.36	1.40	1.33
1	hQ	23	TRP	CA-C	5.36	1.59	1.52
1	ig	220	GLY	C-N	5.36	1.40	1.33
1	io	15	ILE	C-N	5.36	1.42	1.33
1	is	91	ILE	N-CA	-5.36	1.39	1.46
1	is	197	ASP	N-CA	-5.36	1.40	1.46
1	iu	68	MET	C-N	5.36	1.40	1.33
1	iz	35	GLU	C-O	5.36	1.30	1.24
1	1V	84	HIS	C-N	-5.36	1.26	1.33
1	1W	30	LYS	CA-CB	5.36	1.62	1.53
1	jC	192	GLN	CA-C	-5.36	1.45	1.52
1	jJ	92	GLU	CA-C	5.36	1.59	1.53
1	k6	69	LEU	C-O	-5.36	1.18	1.24
1	kp	12	HIS	CG-CD2	-5.36	1.29	1.35
1	23	82	ARG	CD-NE	5.36	1.53	1.46
1	kQ	191	VAL	CA-C	5.36	1.59	1.52
1	kZ	143	ARG	CA-C	-5.36	1.45	1.52
1	l2	184	TRP	N-CA	5.36	1.52	1.46
1	le	18	ARG	C-N	5.36	1.41	1.33
1	ls	160	PRO	C-N	-5.36	1.26	1.33
1	29	142	VAL	C-N	5.36	1.41	1.33
1	lC	15	ILE	CA-C	5.36	1.59	1.52
1	lI	27	VAL	C-O	-5.36	1.17	1.24
1	lM	140	LYS	N-CA	5.36	1.52	1.46
1	lQ	98	GLU	C-N	5.36	1.40	1.33
1	2z	192	GLN	N-CA	-5.36	1.39	1.46
1	2A	70	LYS	CA-CB	5.36	1.61	1.53
1	2F	167	ARG	C-N	5.36	1.41	1.33
1	2H	54	THR	C-O	-5.36	1.18	1.24
1	2I	87	HIS	CG-ND1	-5.36	1.32	1.38
1	2R	84	HIS	ND1-CE1	5.36	1.38	1.32
1	2T	45	GLU	C-N	5.36	1.41	1.33
1	3v	154	ARG	CD-NE	5.36	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3F	151	LEU	CA-CB	5.36	1.62	1.53
1	3K	4	GLN	CA-CB	5.36	1.62	1.53
1	3K	18	ARG	N-CA	-5.36	1.39	1.46
1	46	46	GLY	CA-C	-5.36	1.44	1.51
1	4g	78	ALA	C-N	5.36	1.40	1.33
1	4x	226	HIS	CA-CB	5.36	1.60	1.53
1	4z	207	PRO	N-CD	-5.36	1.40	1.47
1	5d	142	VAL	CA-CB	5.36	1.60	1.54
1	5w	129	ILE	CA-CB	-5.36	1.47	1.54
1	5x	135	ILE	N-CA	-5.36	1.40	1.46
1	60	31	ALA	CA-CB	5.36	1.62	1.53
1	60	199	LYS	N-CA	5.36	1.53	1.46
1	64	129	ILE	CB-CG1	5.36	1.64	1.53
1	66	23	TRP	C-O	5.36	1.30	1.24
1	6d	134	ILE	CA-CB	5.36	1.61	1.54
1	6h	129	ILE	C-N	5.36	1.41	1.34
1	77	213	GLU	C-N	5.36	1.40	1.33
1	78	128	GLU	N-CA	-5.36	1.39	1.46
1	7o	157	PRO	CA-C	5.36	1.60	1.52
1	7A	151	LEU	N-CA	5.36	1.53	1.46
1	7N	5	ASN	N-CA	-5.36	1.38	1.46
1	7O	77	ALA	CA-CB	5.36	1.61	1.53
1	7U	137	GLY	CA-C	-5.36	1.46	1.52
1	81	165	VAL	N-CA	-5.36	1.40	1.46
1	84	218	CYS	CA-CB	5.36	1.61	1.53
1	8z	63	GLN	CA-CB	5.36	1.61	1.53
1	8G	216	THR	N-CA	5.36	1.52	1.46
1	8P	112	GLN	C-N	5.36	1.41	1.33
1	91	136	LEU	CA-C	-5.36	1.45	1.52
1	9f	185	MET	N-CA	-5.36	1.40	1.46
1	9K	146	SER	N-CA	5.36	1.53	1.46
1	9N	138	LEU	CB-CG	5.36	1.64	1.53
1	9S	161	PHE	CA-CB	5.36	1.61	1.53
1	a5	226	HIS	CG-CD2	5.36	1.41	1.35
1	10	202	LEU	C-N	5.36	1.41	1.34
1	aC	79	GLU	N-CA	5.36	1.52	1.46
1	aV	117	TRP	NE1-CE2	-5.36	1.31	1.37
1	b9	155	GLN	C-O	5.36	1.30	1.24
1	bc	169	TYR	CA-CB	5.36	1.61	1.53
1	bA	222	GLY	N-CA	5.36	1.53	1.45
1	bP	90	PRO	CA-C	-5.36	1.44	1.52
1	cd	186	THR	CA-CB	5.36	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cq	168	PHE	C-N	5.36	1.41	1.34
1	cx	5	ASN	CA-CB	5.36	1.62	1.53
1	cB	83	LEU	CA-C	-5.36	1.45	1.52
1	cJ	50	GLN	C-N	5.36	1.40	1.33
1	cR	6	LEU	CA-C	-5.36	1.46	1.52
1	cU	188	THR	CB-OG1	-5.36	1.35	1.43
1	d0	174	ALA	CA-C	5.36	1.59	1.52
1	d3	149	SER	CA-CB	5.36	1.64	1.53
1	1i	18	ARG	CA-C	-5.36	1.46	1.52
1	db	3	VAL	N-CA	5.36	1.52	1.46
1	dz	224	PRO	N-CD	-5.36	1.40	1.47
1	dQ	87	HIS	CA-C	-5.36	1.46	1.52
1	1n	176	GLN	C-N	5.36	1.40	1.33
1	dY	78	ALA	C-N	5.36	1.41	1.33
1	1o	127	GLY	CA-C	-5.36	1.44	1.51
1	eh	204	ALA	CA-CB	5.36	1.61	1.53
1	eo	133	TRP	CA-C	-5.36	1.45	1.52
1	ex	173	ARG	CD-NE	5.36	1.53	1.46
1	eY	139	ASN	CA-C	5.36	1.59	1.52
1	eZ	157	PRO	N-CA	-5.36	1.40	1.47
1	eZ	180	GLU	C-N	5.36	1.40	1.33
1	f3	95	GLN	C-O	5.36	1.30	1.23
1	f3	97	ARG	CA-C	-5.36	1.46	1.53
1	fD	148	THR	CA-C	5.36	1.59	1.52
1	fH	7	GLN	CA-CB	5.36	1.61	1.53
1	fM	139	ASN	CB-CG	5.36	1.65	1.52
1	1A	69	LEU	C-N	5.36	1.41	1.34
1	g5	189	LEU	CA-C	5.36	1.59	1.52
1	f	97	ARG	C-N	5.36	1.42	1.33
1	v	114	GLN	CA-C	-5.36	1.45	1.52
1	T	35	GLU	CA-C	5.36	1.60	1.52
1	gc	214	MET	CA-CB	5.36	1.61	1.53
1	gD	226	HIS	C-N	5.36	1.41	1.33
1	gY	129	ILE	CA-CB	-5.36	1.48	1.54
1	hT	124	ILE	CA-CB	-5.36	1.48	1.53
1	hW	108	THR	N-CA	5.36	1.52	1.46
1	hW	192	GLN	CA-C	-5.36	1.45	1.52
1	iH	185	MET	CA-CB	5.36	1.61	1.53
1	iK	91	ILE	C-N	5.36	1.40	1.33
1	jc	29	GLU	N-CA	5.36	1.53	1.46
1	jD	18	ARG	CZ-NH2	-5.36	1.26	1.33
1	kk	129	ILE	C-O	-5.36	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kH	77	ALA	CA-C	5.36	1.59	1.52
1	lE	129	ILE	CA-C	5.36	1.59	1.52
1	2L	192	GLN	N-CA	5.36	1.53	1.46
1	3E	160	PRO	N-CA	-5.36	1.40	1.47
1	3X	4	GLN	CA-CB	5.36	1.61	1.53
1	4a	39	MET	N-CA	-5.36	1.40	1.46
1	4l	166	ASP	CA-CB	5.36	1.61	1.53
1	5E	210	THR	CA-CB	5.36	1.62	1.53
1	6i	131	LYS	C-N	5.36	1.41	1.33
1	6D	148	THR	C-N	5.36	1.41	1.33
1	6Y	163	ASP	CA-CB	5.36	1.61	1.53
1	75	200	THR	N-CA	5.36	1.53	1.46
1	79	34	PRO	CA-C	5.36	1.60	1.52
1	7v	66	MET	N-CA	-5.36	1.39	1.46
1	7V	100	ARG	C-N	5.36	1.41	1.33
1	83	52	LEU	CA-CB	5.36	1.61	1.53
1	87	107	THR	N-CA	5.36	1.53	1.46
1	8g	81	ASP	N-CA	5.36	1.52	1.46
1	8q	106	GLY	N-CA	5.36	1.52	1.45
1	8s	37	ILE	N-CA	5.36	1.53	1.46
1	9i	82	ARG	CD-NE	5.36	1.53	1.46
1	9i	203	LYS	CA-CB	5.36	1.61	1.53
1	9E	132	ARG	N-CA	5.36	1.52	1.46
1	a2	132	ARG	CD-NE	5.36	1.53	1.46
1	13	33	SER	CA-CB	5.36	1.62	1.53
1	17	17	PRO	CA-C	5.36	1.61	1.52
1	br	207	PRO	N-CD	-5.36	1.40	1.47
1	bt	68	MET	C-O	-5.36	1.17	1.24
1	19	14	ALA	CA-C	5.36	1.59	1.52
1	bJ	228	ALA	CA-CB	5.36	1.64	1.54
1	bO	107	THR	C-N	5.36	1.41	1.33
1	bQ	81	ASP	N-CA	-5.36	1.40	1.46
1	bX	227	LYS	CA-CB	5.36	1.62	1.53
1	d1	90	PRO	C-N	5.36	1.41	1.33
1	dl	54	THR	C-N	5.36	1.41	1.33
1	dG	224	PRO	C-O	-5.36	1.17	1.24
1	ep	83	LEU	N-CA	-5.36	1.39	1.46
1	eA	149	SER	N-CA	5.36	1.52	1.46
1	eP	179	GLN	CA-C	-5.36	1.45	1.52
1	fj	136	LEU	N-CA	-5.36	1.40	1.46
1	1w	204	ALA	CA-C	5.36	1.59	1.52
1	fA	60	GLY	N-CA	5.36	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d	75	GLU	CA-C	5.36	1.59	1.52
1	gf	37	ILE	CA-CB	-5.36	1.51	1.54
1	gp	74	ASN	CA-CB	5.36	1.61	1.53
1	gS	125	PRO	CA-C	-5.36	1.46	1.53
1	h6	164	TYR	C-N	5.36	1.40	1.34
1	hb	103	ASP	C-N	5.36	1.40	1.33
1	hu	176	GLN	CA-CB	5.36	1.62	1.53
1	hI	135	ILE	C-O	-5.36	1.18	1.24
1	hL	121	ASN	CA-CB	5.36	1.59	1.53
1	hU	62	HIS	CD2-NE2	-5.36	1.31	1.37
1	hW	193	ASN	N-CA	-5.36	1.39	1.46
1	1N	2	ILE	C-N	5.36	1.40	1.33
1	id	160	PRO	CA-C	5.36	1.59	1.52
1	1P	45	GLU	N-CA	-5.36	1.39	1.46
1	it	65	ALA	C-N	5.36	1.40	1.33
1	it	82	ARG	CZ-NH2	-5.36	1.26	1.33
1	iv	4	GLN	CA-C	-5.36	1.45	1.52
1	iE	94	GLY	CA-C	5.36	1.58	1.52
1	1R	102	SER	CA-C	5.36	1.59	1.52
1	iO	138	LEU	CA-CB	5.36	1.62	1.53
1	iV	93	PRO	N-CA	5.36	1.53	1.47
1	1U	165	VAL	CA-CB	-5.36	1.47	1.54
1	1V	103	ASP	C-N	5.36	1.40	1.33
1	jw	95	GLN	CA-CB	5.36	1.61	1.53
1	jA	96	MET	CA-CB	5.36	1.62	1.53
1	jJ	23	TRP	CA-CB	5.36	1.61	1.53
1	jX	137	GLY	CA-C	-5.36	1.46	1.52
1	k3	85	PRO	C-N	5.36	1.40	1.33
1	k3	209	ALA	CA-CB	5.36	1.59	1.53
1	k4	18	ARG	CA-CB	5.36	1.61	1.53
1	k5	96	MET	CA-CB	5.36	1.61	1.53
1	k5	187	GLU	CA-C	5.36	1.59	1.52
1	kj	184	TRP	CZ2-CH2	5.36	1.47	1.37
1	kF	57	ASN	C-N	5.36	1.40	1.33
1	kK	62	HIS	CE1-NE2	5.36	1.38	1.32
1	kS	216	THR	CA-CB	-5.36	1.45	1.53
1	l5	85	PRO	CA-C	-5.36	1.46	1.52
1	lh	166	ASP	CA-C	5.36	1.59	1.52
1	27	130	TYR	CA-C	-5.36	1.45	1.52
1	lB	123	PRO	C-N	5.36	1.39	1.33
1	2a	129	ILE	CA-CB	5.36	1.60	1.54
1	2p	143	ARG	C-O	-5.36	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2q	5	ASN	N-CA	5.36	1.52	1.46
1	2C	54	THR	C-N	5.36	1.41	1.33
1	2C	153	ILE	CA-CB	-5.36	1.48	1.54
1	2G	201	ILE	CA-CB	-5.36	1.47	1.54
1	2V	78	ALA	CA-CB	5.36	1.61	1.53
1	38	80	TRP	CA-C	5.36	1.59	1.52
1	3b	117	TRP	CA-CB	5.36	1.62	1.53
1	3t	179	GLN	CA-C	5.36	1.59	1.52
1	3x	48	THR	N-CA	5.36	1.52	1.45
1	3W	25	LYS	CA-C	-5.36	1.45	1.52
1	4d	131	LYS	CA-CB	5.36	1.61	1.53
1	4D	50	GLN	CA-C	5.36	1.59	1.52
1	4E	73	ILE	C-N	5.36	1.41	1.33
1	4F	73	ILE	C-N	5.36	1.41	1.33
1	4T	35	GLU	N-CA	5.36	1.53	1.46
1	5b	75	GLU	C-N	5.36	1.41	1.33
1	5f	107	THR	N-CA	5.36	1.53	1.46
1	5j	35	GLU	N-CA	-5.36	1.39	1.46
1	5I	173	ARG	CD-NE	5.36	1.53	1.46
1	5R	58	THR	C-N	5.36	1.40	1.33
1	5R	94	GLY	N-CA	5.36	1.52	1.45
1	67	120	HIS	C-N	5.36	1.38	1.33
1	6w	169	TYR	C-N	5.36	1.41	1.34
1	6Z	107	THR	CA-C	5.36	1.59	1.52
1	70	220	GLY	C-N	5.36	1.40	1.33
1	7h	15	ILE	CA-CB	-5.36	1.47	1.54
1	7E	201	ILE	C-N	5.36	1.41	1.34
1	7K	56	LEU	CA-CB	5.36	1.61	1.53
1	7K	120	HIS	CG-CD2	5.36	1.41	1.35
1	7K	198	CYS	CA-C	5.36	1.59	1.52
1	7L	96	MET	C-N	5.36	1.40	1.33
1	7N	108	THR	N-CA	5.36	1.53	1.46
1	87	139	ASN	CA-C	5.36	1.59	1.52
1	8t	166	ASP	CA-C	5.36	1.59	1.52
1	8S	148	THR	N-CA	-5.36	1.39	1.45
1	9a	184	TRP	NE1-CE2	-5.36	1.31	1.37
1	9s	180	GLU	C-N	5.36	1.40	1.33
1	9H	226	HIS	N-CA	5.36	1.52	1.46
1	9Z	198	CYS	N-CA	5.36	1.52	1.46
1	a0	212	GLU	CA-C	5.36	1.59	1.52
1	ai	48	THR	C-O	-5.36	1.17	1.23
1	ak	211	LEU	CA-C	5.36	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ar	66	MET	C-N	5.36	1.40	1.33
1	aP	56	LEU	CA-CB	5.36	1.61	1.53
1	aS	184	TRP	N-CA	-5.36	1.40	1.46
1	aX	78	ALA	CA-CB	5.36	1.61	1.53
1	bw	158	LYS	N-CA	5.36	1.52	1.46
1	bE	229	ARG	CA-C	-5.36	1.45	1.52
1	bH	101	GLY	CA-C	5.36	1.58	1.52
1	bT	83	LEU	CB-CG	5.36	1.64	1.53
1	1b	114	GLN	CA-C	-5.36	1.46	1.52
1	cn	196	PRO	CA-CB	5.36	1.61	1.53
1	ct	187	GLU	N-CA	5.36	1.52	1.46
1	cD	175	GLU	N-CA	-5.36	1.39	1.46
1	d0	172	LEU	CA-C	5.36	1.59	1.52
1	dm	62	HIS	CB-CG	-5.36	1.42	1.50
1	dv	129	ILE	CB-CG1	5.36	1.64	1.53
1	1m	161	PHE	CB-CG	5.36	1.62	1.50
1	dS	135	ILE	C-N	5.36	1.41	1.34
1	es	189	LEU	CA-CB	5.36	1.61	1.53
1	et	184	TRP	CA-CB	5.36	1.61	1.53
1	ex	167	ARG	NE-CZ	-5.36	1.27	1.33
1	eM	33	SER	N-CA	5.36	1.51	1.46
1	eN	162	ARG	CA-CB	5.36	1.61	1.53
1	eT	113	GLU	C-N	5.36	1.40	1.33
1	eV	25	LYS	N-CA	5.36	1.52	1.46
1	fl	124	ILE	CA-C	5.36	1.58	1.52
1	fo	204	ALA	N-CA	-5.36	1.39	1.46
1	ft	54	THR	CA-C	-5.36	1.46	1.52
1	fA	179	GLN	CA-C	-5.36	1.46	1.52
1	e	68	MET	CA-CB	5.36	1.62	1.53
1	p	49	PRO	CA-C	5.36	1.60	1.52
1	w	187	GLU	N-CA	-5.36	1.40	1.46
1	F	87	HIS	C-O	-5.36	1.17	1.23
1	gx	116	GLY	N-CA	5.36	1.53	1.45
1	gC	230	VAL	N-CA	5.36	1.52	1.46
1	gS	27	VAL	C-N	5.36	1.41	1.33
1	1I	215	MET	C-O	-5.36	1.16	1.24
1	hx	13	GLN	C-O	-5.36	1.18	1.23
1	i5	33	SER	CA-CB	5.36	1.60	1.54
1	i9	183	ASN	N-CA	-5.36	1.40	1.46
1	ig	152	ASP	C-N	5.36	1.40	1.33
1	iB	87	HIS	CG-CD2	5.36	1.41	1.35
1	iL	5	ASN	N-CA	5.36	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1T	107	THR	N-CA	5.36	1.53	1.46
1	jd	95	GLN	N-CA	-5.36	1.39	1.45
1	jg	143	ARG	CZ-NH1	-5.36	1.25	1.32
1	jx	172	LEU	CA-C	5.36	1.59	1.52
1	jA	71	GLU	C-N	5.36	1.41	1.33
1	jE	117	TRP	CD2-CE3	-5.36	1.31	1.40
1	jQ	111	LEU	N-CA	5.36	1.52	1.46
1	kl	1	PRO	N-CD	5.36	1.55	1.47
1	km	131	LYS	CA-CB	5.36	1.61	1.53
1	kC	98	GLU	CA-CB	5.36	1.61	1.53
1	kQ	205	LEU	N-CA	5.36	1.52	1.46
1	kV	80	TRP	CA-CB	5.36	1.62	1.53
1	lp	95	GLN	C-O	-5.36	1.17	1.23
1	lQ	166	ASP	CA-CB	5.36	1.61	1.53
1	2g	153	ILE	C-N	5.36	1.40	1.33
1	2k	23	TRP	N-CA	5.36	1.52	1.46
1	2H	59	VAL	CA-C	5.36	1.59	1.52
1	3a	5	ASN	CA-CB	5.36	1.60	1.53
1	3c	74	ASN	CA-C	-5.36	1.45	1.52
1	3p	12	HIS	ND1-CE1	5.36	1.38	1.32
1	3t	73	ILE	C-O	-5.36	1.18	1.24
1	40	143	ARG	CA-C	5.36	1.59	1.52
1	4r	80	TRP	CD1-NE1	-5.36	1.26	1.37
1	5f	85	PRO	C-O	-5.36	1.17	1.24
1	5l	123	PRO	N-CA	-5.36	1.40	1.47
1	5m	22	ALA	CA-CB	5.36	1.61	1.53
1	5o	210	THR	C-N	5.36	1.41	1.33
1	5D	69	LEU	C-N	5.36	1.40	1.33
1	5Q	201	ILE	CA-C	-5.36	1.45	1.52
1	6g	154	ARG	CA-C	-5.36	1.45	1.52
1	6z	57	ASN	CA-CB	5.36	1.62	1.53
1	6z	143	ARG	C-N	5.36	1.40	1.33
1	6E	218	CYS	C-N	5.36	1.41	1.33
1	6F	221	VAL	CA-CB	-5.36	1.47	1.54
1	6G	230	VAL	CA-CB	-5.36	1.48	1.54
1	6R	123	PRO	CA-CB	5.36	1.60	1.54
1	7d	218	CYS	CA-C	5.36	1.59	1.52
1	7q	228	ALA	N-CA	-5.36	1.38	1.45
1	7s	119	THR	CA-C	-5.36	1.44	1.52
1	7O	209	ALA	CA-C	-5.36	1.46	1.52
1	7S	93	PRO	C-N	5.36	1.41	1.33
1	7W	87	HIS	ND1-CE1	5.36	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8j	76	GLU	C-O	-5.36	1.17	1.24
1	8D	174	ALA	C-N	5.36	1.41	1.33
1	8J	67	GLN	C-N	5.36	1.40	1.33
1	8J	116	GLY	CA-C	5.36	1.58	1.52
1	8T	140	LYS	C-N	5.36	1.40	1.33
1	93	18	ARG	CD-NE	5.36	1.53	1.46
1	9D	153	ILE	CA-CB	5.36	1.59	1.53
1	aq	194	ALA	C-N	5.36	1.41	1.33
1	aA	150	ILE	C-N	5.36	1.41	1.33
1	aL	179	GLN	C-O	-5.36	1.17	1.24
1	aU	153	ILE	CA-CB	-5.36	1.47	1.54
1	ba	95	GLN	N-CA	5.36	1.52	1.45
1	bg	17	PRO	CA-CB	5.36	1.61	1.53
1	bh	129	ILE	N-CA	-5.36	1.40	1.46
1	bm	168	PHE	CA-CB	5.36	1.61	1.53
1	bM	204	ALA	CA-C	5.36	1.59	1.52
1	bP	144	MET	CA-CB	5.36	1.61	1.53
1	cs	212	GLU	C-N	5.36	1.41	1.34
1	cw	116	GLY	N-CA	5.36	1.52	1.45
1	cG	158	LYS	N-CA	-5.36	1.39	1.46
1	1g	87	HIS	CD2-NE2	5.36	1.43	1.37
1	cL	47	ALA	N-CA	-5.36	1.39	1.45
1	cX	62	HIS	CA-C	-5.36	1.45	1.53
1	d8	124	ILE	N-CA	-5.36	1.42	1.46
1	df	44	SER	N-CA	-5.36	1.38	1.46
1	dy	123	PRO	N-CA	5.36	1.52	1.46
1	dG	97	ARG	CD-NE	5.36	1.53	1.46
1	1n	117	TRP	CA-C	5.36	1.59	1.52
1	e5	164	TYR	CZ-OH	5.36	1.49	1.38
1	eh	3	VAL	N-CA	-5.36	1.40	1.46
1	ep	10	MET	CA-CB	5.36	1.60	1.53
1	eq	42	ALA	CA-C	5.36	1.59	1.52
1	eG	199	LYS	N-CA	-5.36	1.39	1.46
1	eN	102	SER	CA-C	5.36	1.60	1.52
1	fb	155	GLN	CA-CB	5.36	1.60	1.53
1	fi	111	LEU	N-CA	-5.36	1.39	1.46
1	fj	184	TRP	NE1-CE2	-5.36	1.31	1.37
1	fs	25	LYS	CA-C	5.36	1.59	1.52
1	fM	100	ARG	CA-CB	5.36	1.61	1.53
1	fS	146	SER	CA-CB	5.36	1.60	1.53
1	B	113	GLU	CA-C	5.36	1.59	1.52
1	8	78	ALA	CA-CB	5.36	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1D	15	ILE	CA-C	-5.35	1.46	1.52
1	gP	82	ARG	CA-C	5.35	1.59	1.52
1	hj	159	GLU	CA-C	5.35	1.59	1.52
1	hA	60	GLY	CA-C	-5.35	1.46	1.52
1	ic	229	ARG	CZ-NH2	-5.35	1.26	1.33
1	j0	124	ILE	CA-C	-5.35	1.48	1.53
1	j9	9	GLN	N-CA	5.35	1.52	1.46
1	1U	110	THR	CA-CB	5.35	1.62	1.53
1	jc	190	LEU	C-N	5.35	1.40	1.33
1	k2	99	PRO	CA-CB	5.35	1.61	1.53
1	k3	132	ARG	C-O	-5.35	1.18	1.24
1	22	207	PRO	CA-CB	5.35	1.61	1.53
1	kJ	90	PRO	N-CD	5.35	1.55	1.47
1	ls	176	GLN	C-N	5.35	1.41	1.33
1	lu	85	PRO	N-CA	-5.35	1.41	1.46
1	2k	22	ALA	N-CA	-5.35	1.40	1.46
1	2m	139	ASN	N-CA	5.35	1.52	1.46
1	3n	179	GLN	CA-C	5.35	1.60	1.52
1	5t	74	ASN	CA-C	5.35	1.59	1.52
1	5H	199	LYS	C-O	-5.35	1.17	1.24
1	6V	222	GLY	C-N	5.35	1.41	1.33
1	7x	123	PRO	CA-C	-5.35	1.45	1.52
1	7F	216	THR	CA-C	5.35	1.59	1.52
1	85	172	LEU	N-CA	5.35	1.52	1.46
1	8z	87	HIS	CA-CB	5.35	1.61	1.53
1	93	137	GLY	N-CA	5.35	1.52	1.45
1	9O	69	LEU	N-CA	5.35	1.52	1.46
1	ag	7	GLN	N-CA	-5.35	1.39	1.46
1	11	14	ALA	C-N	5.35	1.40	1.33
1	ax	191	VAL	CA-CB	5.35	1.60	1.54
1	aJ	112	GLN	CA-C	5.35	1.59	1.52
1	ba	48	THR	C-N	-5.35	1.26	1.34
1	ba	72	THR	C-N	5.35	1.40	1.33
1	bz	228	ALA	CA-C	5.35	1.60	1.53
1	cz	115	ILE	CA-C	5.35	1.59	1.52
1	e2	199	LYS	N-CA	-5.35	1.39	1.46
1	fh	62	HIS	CE1-NE2	5.35	1.38	1.32
1	fp	130	TYR	CA-CB	5.35	1.62	1.53
1	fs	44	SER	N-CA	5.35	1.52	1.46
1	fX	29	GLU	CA-CB	5.35	1.61	1.54
1	1B	73	ILE	C-N	5.35	1.40	1.33
1	c	49	PRO	N-CD	-5.35	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gb	79	GLU	CA-CB	5.35	1.61	1.53
1	gd	165	VAL	CA-CB	-5.35	1.48	1.54
1	gg	61	GLY	CA-C	-5.35	1.45	1.51
1	gl	145	TYR	CA-CB	5.35	1.62	1.53
1	gm	85	PRO	CA-C	-5.35	1.47	1.53
1	go	31	ALA	N-CA	5.35	1.53	1.46
1	gq	146	SER	N-CA	5.35	1.51	1.46
1	gr	3	VAL	CA-CB	-5.35	1.47	1.54
1	gJ	56	LEU	N-CA	-5.35	1.39	1.46
1	1F	10	MET	CA-C	5.35	1.59	1.52
1	h0	75	GLU	C-N	5.35	1.41	1.33
1	h3	185	MET	N-CA	5.35	1.52	1.46
1	hz	90	PRO	CA-C	-5.35	1.47	1.52
1	hD	13	GLN	C-N	5.35	1.40	1.33
1	hR	129	ILE	CA-CB	5.35	1.60	1.54
1	hT	122	PRO	CA-CB	5.35	1.63	1.53
1	hT	126	VAL	C-N	5.35	1.41	1.33
1	hY	86	VAL	CA-CB	-5.35	1.48	1.54
1	ik	30	LYS	N-CA	5.35	1.53	1.46
1	in	159	GLU	CA-C	-5.35	1.46	1.52
1	iI	85	PRO	CA-C	-5.35	1.46	1.52
1	iM	57	ASN	CA-C	5.35	1.60	1.52
1	iQ	72	THR	N-CA	5.35	1.52	1.46
1	iY	166	ASP	CA-C	5.35	1.59	1.52
1	j1	36	VAL	N-CA	5.35	1.52	1.46
1	jc	3	VAL	N-CA	-5.35	1.38	1.46
1	jd	132	ARG	CD-NE	5.35	1.53	1.46
1	jj	84	HIS	C-N	5.35	1.40	1.33
1	jD	21	ASN	N-CA	-5.35	1.39	1.46
1	jF	193	ASN	C-N	5.35	1.40	1.33
1	jX	146	SER	C-N	-5.35	1.28	1.34
1	kI	132	ARG	CD-NE	5.35	1.53	1.46
1	kX	130	TYR	CA-CB	5.35	1.62	1.53
1	25	155	GLN	CA-CB	5.35	1.61	1.53
1	l8	188	THR	CA-C	-5.35	1.45	1.52
1	lj	221	VAL	C-N	5.35	1.41	1.33
1	lk	183	ASN	CA-C	5.35	1.59	1.52
1	lz	12	HIS	CG-CD2	5.35	1.41	1.35
1	lR	229	ARG	C-N	5.35	1.40	1.33
1	2g	50	GLN	C-N	5.35	1.40	1.33
1	2o	204	ALA	N-CA	-5.35	1.40	1.46
1	2R	157	PRO	C-O	-5.35	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2X	12	HIS	CA-C	5.35	1.59	1.52
1	39	110	THR	CA-CB	5.35	1.62	1.53
1	3a	163	ASP	C-N	5.35	1.40	1.33
1	3y	200	THR	C-N	5.35	1.40	1.33
1	3C	34	PRO	N-CA	-5.35	1.40	1.47
1	3D	117	TRP	NE1-CE2	-5.35	1.31	1.37
1	3N	74	ASN	CA-C	5.35	1.59	1.52
1	3U	73	ILE	CA-C	5.35	1.59	1.52
1	43	211	LEU	CA-CB	5.35	1.60	1.53
1	4d	229	ARG	CA-CB	5.35	1.62	1.53
1	4f	162	ARG	CA-CB	5.35	1.61	1.53
1	4L	2	ILE	CA-C	5.35	1.58	1.52
1	4O	104	ILE	N-CA	5.35	1.52	1.46
1	4Q	16	SER	CA-CB	5.35	1.61	1.53
1	4Q	230	VAL	C-N	5.35	1.40	1.33
1	4S	123	PRO	N-CD	-5.35	1.40	1.47
1	59	132	ARG	CD-NE	5.35	1.53	1.46
1	5d	210	THR	CA-CB	5.35	1.62	1.53
1	5C	77	ALA	CA-C	5.35	1.59	1.52
1	5U	144	MET	C-N	5.35	1.41	1.33
1	60	116	GLY	N-CA	5.35	1.53	1.45
1	60	118	MET	CA-CB	5.35	1.61	1.53
1	6c	136	LEU	C-N	5.35	1.40	1.33
1	6i	191	VAL	N-CA	-5.35	1.40	1.46
1	6l	120	HIS	CA-CB	5.35	1.62	1.53
1	6s	133	TRP	CA-CB	5.35	1.61	1.53
1	6w	221	VAL	C-N	5.35	1.41	1.33
1	6E	5	ASN	C-N	5.35	1.41	1.33
1	6J	5	ASN	N-CA	-5.35	1.38	1.46
1	6K	158	LYS	C-N	5.35	1.41	1.33
1	6M	138	LEU	C-N	5.35	1.41	1.34
1	6Z	146	SER	C-N	5.35	1.41	1.34
1	75	185	MET	C-O	5.35	1.30	1.24
1	7c	94	GLY	CA-C	-5.35	1.46	1.52
1	7f	95	GLN	C-N	5.35	1.40	1.33
1	7k	120	HIS	CA-CB	5.35	1.62	1.53
1	7o	75	GLU	CA-CB	5.35	1.61	1.53
1	7s	14	ALA	C-N	5.35	1.40	1.33
1	7B	12	HIS	CG-ND1	5.35	1.44	1.38
1	7K	49	PRO	N-CD	5.35	1.55	1.47
1	7Q	31	ALA	C-O	-5.35	1.17	1.24
1	7T	194	ALA	C-N	5.35	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	83	145	TYR	C-N	5.35	1.41	1.33
1	8n	141	ILE	CA-CB	5.35	1.60	1.54
1	8K	166	ASP	CA-C	5.35	1.59	1.52
1	8S	135	ILE	C-N	5.35	1.41	1.33
1	9n	145	TYR	N-CA	-5.35	1.39	1.46
1	9o	136	LEU	CA-C	5.35	1.59	1.52
1	9B	84	HIS	N-CA	5.35	1.52	1.46
1	ag	97	ARG	CD-NE	5.35	1.53	1.46
1	aB	85	PRO	N-CA	-5.35	1.38	1.48
1	aU	104	ILE	CA-CB	-5.35	1.47	1.54
1	16	25	LYS	C-O	-5.35	1.17	1.24
1	bd	114	GLN	CA-C	5.35	1.59	1.52
1	17	95	GLN	N-CA	-5.35	1.39	1.45
1	17	112	GLN	CA-C	5.35	1.59	1.52
1	bi	4	GLN	CA-C	-5.35	1.45	1.52
1	bL	35	GLU	CA-C	5.35	1.60	1.52
1	bR	157	PRO	CA-CB	-5.35	1.46	1.53
1	1b	196	PRO	C-O	-5.35	1.17	1.24
1	ck	68	MET	CA-C	5.35	1.59	1.52
1	cn	113	GLU	CA-C	5.35	1.59	1.52
1	ct	26	VAL	C-N	-5.35	1.27	1.33
1	cW	197	ASP	N-CA	-5.35	1.39	1.46
1	dt	55	MET	CA-C	5.35	1.59	1.52
1	dw	210	THR	N-CA	5.35	1.52	1.45
1	dC	191	VAL	C-N	5.35	1.40	1.33
1	el	80	TRP	CZ2-CH2	5.35	1.47	1.37
1	em	32	PHE	CA-CB	5.35	1.62	1.53
1	eq	147	PRO	N-CA	5.35	1.54	1.47
1	eE	13	GLN	C-N	5.35	1.40	1.33
1	1t	49	PRO	CA-C	5.35	1.60	1.52
1	1t	111	LEU	N-CA	-5.35	1.39	1.46
1	f2	166	ASP	N-CA	-5.35	1.39	1.46
1	fj	85	PRO	N-CA	5.35	1.54	1.47
1	fm	66	MET	CA-CB	5.35	1.62	1.53
1	fG	51	ASP	N-CA	-5.35	1.40	1.46
1	fL	166	ASP	CA-CB	5.35	1.61	1.53
1	g7	112	GLN	CA-CB	5.35	1.61	1.53
1	k	133	TRP	CA-C	-5.35	1.45	1.52
1	w	126	VAL	CA-CB	-5.35	1.47	1.54
1	G	37	ILE	CA-CB	5.35	1.57	1.54
1	6	87	HIS	CD2-NE2	5.35	1.43	1.37
1	9	41	SER	C-N	5.35	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gI	57	ASN	CA-C	5.35	1.59	1.52
1	hH	168	PHE	CA-C	5.35	1.59	1.52
1	ie	30	LYS	CA-C	5.35	1.59	1.52
1	iY	199	LYS	N-CA	5.35	1.52	1.46
1	j7	199	LYS	CA-CB	5.35	1.62	1.53
1	j9	133	TRP	NE1-CE2	-5.35	1.31	1.37
1	jE	129	ILE	C-O	-5.35	1.18	1.24
1	ky	103	ASP	CA-C	5.35	1.59	1.52
1	24	117	TRP	CA-CB	5.35	1.61	1.53
1	kO	101	GLY	CA-C	5.35	1.58	1.52
1	l8	22	ALA	CA-C	5.35	1.59	1.52
1	lb	213	GLU	CA-CB	5.35	1.61	1.53
1	2I	90	PRO	N-CA	-5.35	1.40	1.47
1	2S	227	LYS	N-CA	5.35	1.53	1.46
1	36	226	HIS	CD2-NE2	5.35	1.43	1.37
1	37	90	PRO	C-N	5.35	1.40	1.33
1	3E	66	MET	CA-C	5.35	1.59	1.52
1	3X	111	LEU	C-N	5.35	1.41	1.33
1	44	126	VAL	C-N	5.35	1.40	1.33
1	4o	144	MET	N-CA	-5.35	1.39	1.46
1	5k	226	HIS	C-O	-5.35	1.17	1.24
1	5E	112	GLN	CA-CB	5.35	1.61	1.53
1	5J	133	TRP	CA-CB	5.35	1.61	1.53
1	6m	41	SER	CA-CB	5.35	1.61	1.53
1	6D	211	LEU	C-N	5.35	1.40	1.33
1	7a	156	GLY	CA-C	5.35	1.58	1.51
1	7r	154	ARG	CD-NE	5.35	1.53	1.46
1	7Q	230	VAL	CA-C	5.35	1.58	1.52
1	8e	100	ARG	CA-CB	5.35	1.60	1.53
1	8k	58	THR	C-N	5.35	1.40	1.34
1	9m	186	THR	CA-CB	5.35	1.62	1.53
1	9t	173	ARG	CA-C	5.35	1.60	1.52
1	9R	7	GLN	C-O	-5.35	1.17	1.23
1	9T	11	VAL	C-N	5.35	1.40	1.33
1	9T	120	HIS	N-CA	5.35	1.53	1.46
1	ad	159	GLU	C-N	5.35	1.40	1.33
1	au	11	VAL	CA-CB	-5.35	1.47	1.54
1	bi	21	ASN	CA-CB	5.35	1.61	1.53
1	bD	31	ALA	N-CA	5.35	1.52	1.46
1	bE	156	GLY	C-N	5.35	1.40	1.34
1	1e	130	TYR	CA-CB	5.35	1.61	1.53
1	ct	152	ASP	C-O	-5.35	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d0	5	ASN	CA-CB	5.35	1.62	1.53
1	fm	13	GLN	N-CA	5.35	1.52	1.45
1	fn	117	TRP	NE1-CE2	-5.35	1.31	1.37
1	1A	221	VAL	CA-C	-5.35	1.46	1.52
1	g	35	GLU	C-N	5.35	1.40	1.33
1	v	228	ALA	N-CA	-5.35	1.39	1.45
1	gu	68	MET	N-CA	5.35	1.52	1.46
1	gB	206	GLY	CA-C	-5.35	1.44	1.51
1	gX	153	ILE	CA-CB	5.35	1.60	1.54
1	h3	12	HIS	CA-CB	5.35	1.61	1.53
1	hb	29	GLU	CA-C	5.35	1.59	1.52
1	hf	203	LYS	N-CA	5.35	1.52	1.46
1	1I	96	MET	CA-C	-5.35	1.45	1.52
1	hq	3	VAL	CA-C	-5.35	1.46	1.52
1	hz	117	TRP	CA-CB	5.35	1.61	1.53
1	1K	178	SER	CA-CB	5.35	1.62	1.53
1	hA	18	ARG	CA-CB	5.35	1.61	1.53
1	hF	49	PRO	CA-CB	5.35	1.61	1.53
1	hG	120	HIS	C-N	5.35	1.39	1.33
1	hR	180	GLU	CA-C	5.35	1.59	1.52
1	hW	192	GLN	CA-CB	5.35	1.62	1.53
1	ie	144	MET	CA-CB	5.35	1.62	1.53
1	ik	50	GLN	CA-CB	5.35	1.61	1.53
1	iO	54	THR	C-N	5.35	1.41	1.33
1	j7	213	GLU	CA-C	-5.35	1.45	1.52
1	j7	222	GLY	C-N	5.35	1.41	1.33
1	jh	10	MET	N-CA	-5.35	1.39	1.46
1	jh	116	GLY	C-O	5.35	1.30	1.23
1	jh	208	ALA	C-N	5.35	1.40	1.33
1	jo	145	TYR	N-CA	-5.35	1.40	1.46
1	jp	211	LEU	CA-CB	5.35	1.62	1.53
1	jB	118	MET	CA-CB	5.35	1.61	1.54
1	jD	179	GLN	N-CA	5.35	1.52	1.46
1	1Z	84	HIS	CA-CB	5.35	1.61	1.53
1	ke	186	THR	N-CA	5.35	1.52	1.46
1	kj	163	ASP	N-CA	-5.35	1.39	1.46
1	kr	172	LEU	CA-C	5.35	1.59	1.52
1	kK	104	ILE	N-CA	-5.35	1.40	1.46
1	kL	105	ALA	C-N	5.35	1.40	1.33
1	kN	61	GLY	C-N	5.35	1.41	1.33
1	kO	28	GLU	N-CA	5.35	1.52	1.46
1	kX	95	GLN	CA-CB	5.35	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l7	93	PRO	C-O	5.35	1.29	1.23
1	lg	59	VAL	CA-CB	5.35	1.60	1.54
1	lj	20	LEU	N-CA	-5.35	1.39	1.46
1	lN	78	ALA	C-N	5.35	1.41	1.33
1	lN	117	TRP	CZ2-CH2	5.35	1.47	1.37
1	2h	18	ARG	CA-CB	5.35	1.61	1.53
1	2i	59	VAL	CA-C	5.35	1.59	1.53
1	2K	149	SER	C-N	5.35	1.40	1.33
1	2N	7	GLN	CA-C	-5.35	1.45	1.52
1	2Y	132	ARG	NE-CZ	-5.35	1.27	1.33
1	3i	79	GLU	C-O	-5.35	1.17	1.24
1	3k	1	PRO	N-CD	5.35	1.55	1.47
1	3u	72	THR	CA-C	-5.35	1.45	1.52
1	3T	31	ALA	C-N	5.35	1.41	1.33
1	3T	49	PRO	N-CD	-5.35	1.40	1.47
1	40	38	PRO	CA-CB	-5.35	1.46	1.53
1	4f	63	GLN	N-CA	-5.35	1.39	1.46
1	4f	145	TYR	CA-CB	5.35	1.61	1.53
1	4K	210	THR	CA-C	-5.35	1.45	1.52
1	4Q	11	VAL	CA-C	5.35	1.59	1.52
1	52	136	LEU	CA-C	-5.35	1.45	1.52
1	57	79	GLU	C-N	5.35	1.41	1.34
1	5f	196	PRO	C-N	5.35	1.41	1.33
1	5o	82	ARG	CA-C	5.35	1.60	1.52
1	5R	5	ASN	N-CA	-5.35	1.39	1.46
1	78	12	HIS	ND1-CE1	5.35	1.37	1.32
1	7H	181	VAL	C-N	5.35	1.40	1.33
1	7J	168	PHE	CA-CB	5.35	1.62	1.53
1	7P	159	GLU	N-CA	5.35	1.53	1.46
1	7R	41	SER	CA-C	5.35	1.59	1.52
1	7X	76	GLU	N-CA	5.35	1.52	1.46
1	87	84	HIS	CG-CD2	-5.35	1.29	1.35
1	8r	132	ARG	C-N	5.35	1.40	1.33
1	8t	135	ILE	CA-CB	-5.35	1.47	1.54
1	8v	206	GLY	C-N	5.35	1.38	1.33
1	8x	169	TYR	CA-C	5.35	1.59	1.52
1	8y	162	ARG	CA-C	-5.35	1.45	1.52
1	8z	6	LEU	CB-CG	5.35	1.64	1.53
1	8D	167	ARG	CZ-NH2	-5.35	1.26	1.33
1	94	26	VAL	CA-CB	-5.35	1.47	1.54
1	95	115	ILE	CA-C	5.35	1.60	1.52
1	97	11	VAL	CA-CB	-5.35	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9M	118	MET	CA-CB	5.35	1.62	1.53
1	9O	183	ASN	CA-CB	5.35	1.61	1.53
1	9S	18	ARG	CD-NE	5.35	1.53	1.46
1	9S	90	PRO	C-N	5.35	1.40	1.33
1	a8	38	PRO	N-CA	5.35	1.54	1.47
1	11	177	ALA	N-CA	-5.35	1.39	1.45
1	am	183	ASN	C-N	5.35	1.40	1.33
1	at	135	ILE	C-N	5.35	1.41	1.34
1	at	142	VAL	C-N	5.35	1.41	1.33
1	au	153	ILE	CA-CB	-5.35	1.47	1.54
1	aH	148	THR	N-CA	-5.35	1.40	1.46
1	aU	227	LYS	CA-CB	5.35	1.61	1.53
1	aX	52	LEU	CA-C	-5.35	1.46	1.52
1	17	180	GLU	CA-CB	5.35	1.61	1.53
1	bo	202	LEU	CB-CG	5.35	1.64	1.53
1	bq	230	VAL	C-O	-5.35	1.17	1.24
1	bs	156	GLY	N-CA	5.35	1.52	1.44
1	bH	89	GLY	N-CA	-5.35	1.37	1.44
1	bI	110	THR	CA-C	5.35	1.59	1.52
1	bO	161	PHE	CA-CB	5.35	1.61	1.53
1	1b	221	VAL	C-N	5.35	1.41	1.33
1	c7	117	TRP	CA-C	-5.35	1.46	1.52
1	cb	213	GLU	N-CA	5.35	1.52	1.46
1	ch	2	ILE	N-CA	-5.35	1.38	1.46
1	cx	183	ASN	N-CA	-5.35	1.40	1.46
1	cR	43	LEU	C-N	5.35	1.41	1.33
1	cS	120	HIS	C-N	5.35	1.39	1.33
1	dm	162	ARG	CD-NE	5.35	1.53	1.46
1	dq	63	GLN	CA-CB	5.35	1.61	1.53
1	dx	3	VAL	CA-C	-5.35	1.46	1.52
1	dA	217	ALA	N-CA	-5.35	1.39	1.46
1	1n	188	THR	CA-CB	-5.35	1.44	1.53
1	1o	172	LEU	CA-C	5.35	1.59	1.52
1	e2	76	GLU	N-CA	-5.35	1.39	1.46
1	eb	79	GLU	C-N	-5.35	1.26	1.33
1	es	179	GLN	CA-C	5.35	1.59	1.52
1	ev	147	PRO	N-CA	5.35	1.54	1.47
1	eA	170	LYS	CA-CB	5.35	1.61	1.53
1	eC	62	HIS	CB-CG	5.35	1.57	1.50
1	eD	67	GLN	CA-CB	5.35	1.61	1.53
1	eR	181	VAL	CA-CB	-5.35	1.48	1.54
1	f8	7	GLN	CA-CB	5.35	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fe	52	LEU	N-CA	5.35	1.52	1.46
1	fm	33	SER	CA-C	-5.35	1.46	1.52
1	fo	123	PRO	CA-CB	-5.35	1.46	1.53
1	fu	126	VAL	CA-C	5.35	1.59	1.52
1	fw	230	VAL	C-N	5.35	1.40	1.33
1	fB	84	HIS	N-CA	-5.35	1.37	1.46
1	fH	120	HIS	CG-CD2	5.35	1.41	1.35
1	fI	8	GLY	N-CA	5.35	1.53	1.45
1	fW	12	HIS	N-CA	5.35	1.52	1.46
1	1A	102	SER	CA-C	-5.35	1.45	1.52
1	3	134	ILE	CA-C	5.35	1.59	1.52
1	G	167	ARG	C-N	5.35	1.40	1.33
1	M	148	THR	N-CA	-5.35	1.39	1.46
1	U	70	LYS	CA-CB	5.35	1.61	1.53
1	8	115	ILE	C-O	-5.35	1.18	1.24
1	gD	203	LYS	N-CA	5.35	1.52	1.46
1	gE	202	LEU	CA-C	5.35	1.59	1.52
1	h9	5	ASN	C-N	5.35	1.41	1.33
1	hb	139	ASN	C-N	5.35	1.40	1.33
1	1I	28	GLU	N-CA	5.35	1.53	1.46
1	hp	84	HIS	CG-ND1	-5.35	1.32	1.38
1	hE	73	ILE	C-N	5.35	1.41	1.33
1	hO	226	HIS	ND1-CE1	5.35	1.37	1.32
1	hZ	161	PHE	CA-C	5.35	1.59	1.52
1	i4	50	GLN	CA-CB	5.35	1.61	1.53
1	i8	155	GLN	N-CA	-5.35	1.39	1.45
1	iq	183	ASN	N-CA	5.35	1.52	1.46
1	1Q	69	LEU	CA-C	-5.35	1.46	1.52
1	j0	143	ARG	CD-NE	5.35	1.53	1.46
1	j7	126	VAL	CA-CB	5.35	1.61	1.54
1	jm	168	PHE	CA-CB	5.35	1.61	1.53
1	jR	8	GLY	CA-C	-5.35	1.46	1.52
1	k2	146	SER	C-O	5.35	1.31	1.24
1	kz	12	HIS	CG-CD2	5.35	1.41	1.35
1	kU	105	ALA	C-N	5.35	1.40	1.33
1	26	68	MET	C-N	5.35	1.40	1.33
1	li	44	SER	CA-C	-5.35	1.46	1.52
1	lv	150	ILE	CA-C	-5.35	1.46	1.52
1	lL	83	LEU	N-CA	-5.35	1.40	1.46
1	lQ	5	ASN	CA-C	5.35	1.59	1.53
1	2r	191	VAL	CA-C	-5.35	1.44	1.52
1	2Y	177	ALA	N-CA	-5.35	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	33	104	ILE	CA-C	5.35	1.59	1.52
1	39	144	MET	C-N	5.35	1.41	1.33
1	3c	224	PRO	CA-C	5.35	1.58	1.52
1	3H	43	LEU	CA-CB	5.35	1.61	1.53
1	3I	3	VAL	CA-C	-5.35	1.46	1.52
1	3S	108	THR	C-N	5.35	1.40	1.33
1	47	29	GLU	C-O	-5.35	1.18	1.24
1	4d	184	TRP	C-N	5.35	1.41	1.33
1	4x	85	PRO	CA-CB	-5.35	1.46	1.53
1	4M	150	ILE	CA-C	-5.35	1.46	1.52
1	56	204	ALA	N-CA	5.35	1.52	1.46
1	5b	92	GLU	N-CA	5.35	1.52	1.45
1	5q	161	PHE	N-CA	-5.35	1.39	1.46
1	62	222	GLY	C-O	-5.35	1.16	1.23
1	63	188	THR	CA-C	-5.35	1.48	1.52
1	6r	203	LYS	C-N	5.35	1.41	1.33
1	6E	120	HIS	ND1-CE1	5.35	1.37	1.32
1	6H	120	HIS	CG-ND1	-5.35	1.32	1.38
1	6J	162	ARG	N-CA	-5.35	1.39	1.46
1	7c	165	VAL	C-N	5.35	1.41	1.33
1	7z	12	HIS	CD2-NE2	5.35	1.43	1.37
1	7F	221	VAL	CA-CB	-5.35	1.48	1.54
1	7Z	135	ILE	C-N	5.35	1.41	1.33
1	82	23	TRP	C-O	-5.35	1.18	1.24
1	8o	124	ILE	CA-C	5.35	1.57	1.53
1	8u	97	ARG	NE-CZ	-5.35	1.27	1.33
1	8M	120	HIS	ND1-CE1	5.35	1.37	1.32
1	99	227	LYS	CA-CB	5.35	1.62	1.53
1	9i	108	THR	N-CA	5.35	1.52	1.46
1	9s	12	HIS	CE1-NE2	5.35	1.37	1.32
1	a0	22	ALA	C-O	-5.35	1.18	1.24
1	aa	175	GLU	CA-C	5.35	1.59	1.52
1	aa	205	LEU	CA-C	-5.35	1.46	1.52
1	ap	1	PRO	C-N	5.35	1.40	1.33
1	au	53	ASN	CA-C	-5.35	1.46	1.52
1	aE	183	ASN	CA-CB	5.35	1.61	1.53
1	aI	84	HIS	CD2-NE2	5.35	1.43	1.37
1	aR	131	LYS	N-CA	-5.35	1.39	1.46
1	bE	148	THR	CA-CB	5.35	1.62	1.53
1	1a	120	HIS	CG-ND1	-5.35	1.32	1.38
1	c0	200	THR	N-CA	5.35	1.52	1.46
1	ch	89	GLY	C-O	5.35	1.31	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cl	113	GLU	CA-CB	5.35	1.61	1.53
1	cB	161	PHE	CA-CB	5.35	1.60	1.52
1	cN	226	HIS	CA-C	-5.35	1.46	1.53
1	1j	36	VAL	CA-CB	-5.35	1.48	1.54
1	dm	37	ILE	C-O	-5.35	1.18	1.24
1	do	133	TRP	N-CA	5.35	1.52	1.46
1	dx	136	LEU	N-CA	5.35	1.52	1.46
1	dx	172	LEU	N-CA	-5.35	1.39	1.46
1	dy	176	GLN	CA-CB	5.35	1.62	1.53
1	dR	175	GLU	CA-CB	5.35	1.62	1.53
1	e2	87	HIS	CG-CD2	5.35	1.41	1.35
1	en	120	HIS	CA-C	5.35	1.60	1.53
1	eo	168	PHE	C-O	-5.35	1.18	1.24
1	eZ	170	LYS	CA-C	-5.35	1.45	1.52
1	fv	59	VAL	CA-C	5.35	1.59	1.53
1	fD	23	TRP	CA-C	5.35	1.59	1.52
1	fG	130	TYR	CA-C	5.35	1.59	1.52
1	fH	106	GLY	C-N	5.35	1.40	1.33
1	1B	178	SER	CA-C	5.35	1.60	1.53
1	2	28	GLU	C-O	-5.35	1.18	1.24
1	z	55	MET	C-N	5.35	1.41	1.34
1	7	104	ILE	CB-CG1	5.35	1.64	1.53
1	gD	180	GLU	CA-C	-5.35	1.46	1.52
1	gH	37	ILE	C-N	-5.35	1.27	1.34
1	gS	100	ARG	N-CA	5.35	1.52	1.45
1	h9	157	PRO	N-CD	5.35	1.55	1.47
1	hA	12	HIS	CG-CD2	5.35	1.41	1.35
1	ip	12	HIS	CB-CG	5.35	1.57	1.50
1	iH	196	PRO	N-CA	-5.35	1.40	1.47
1	iM	1	PRO	CA-C	-5.35	1.41	1.52
1	j2	64	ALA	C-N	5.35	1.41	1.33
1	ja	37	ILE	C-N	5.35	1.40	1.34
1	1U	133	TRP	C-O	-5.35	1.17	1.24
1	jq	222	GLY	CA-C	5.35	1.59	1.51
1	kV	172	LEU	C-N	5.35	1.40	1.33
1	26	217	ALA	C-N	5.35	1.40	1.33
1	l9	68	MET	CA-CB	5.35	1.61	1.53
1	2m	174	ALA	CA-C	-5.35	1.46	1.52
1	2x	77	ALA	CA-CB	5.35	1.62	1.53
1	2B	3	VAL	C-N	5.35	1.40	1.33
1	37	53	ASN	N-CA	-5.35	1.39	1.46
1	3L	137	GLY	N-CA	5.35	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3V	79	GLU	N-CA	-5.35	1.39	1.46
1	49	227	LYS	N-CA	-5.35	1.39	1.46
1	4h	180	GLU	CA-C	5.35	1.59	1.52
1	4u	26	VAL	C-N	5.35	1.40	1.33
1	4K	58	THR	N-CA	-5.35	1.39	1.46
1	4O	70	LYS	CA-C	5.35	1.59	1.52
1	6D	199	LYS	C-N	5.35	1.40	1.33
1	6K	216	THR	N-CA	5.35	1.52	1.46
1	6S	12	HIS	CE1-NE2	5.35	1.37	1.32
1	78	20	LEU	N-CA	-5.35	1.40	1.46
1	7k	182	LYS	C-O	-5.35	1.17	1.24
1	7C	115	ILE	CA-CB	5.35	1.61	1.54
1	8f	117	TRP	CD2-CE2	5.35	1.50	1.41
1	8G	5	ASN	N-CA	5.35	1.52	1.46
1	94	117	TRP	CA-C	5.35	1.59	1.52
1	9H	90	PRO	CA-C	5.35	1.58	1.53
1	aj	152	ASP	N-CA	-5.35	1.38	1.46
1	ax	29	GLU	CA-CB	5.35	1.61	1.53
1	aB	224	PRO	CA-C	5.35	1.59	1.52
1	aI	121	ASN	CA-C	5.35	1.58	1.52
1	b6	54	THR	N-CA	5.35	1.52	1.46
1	bJ	197	ASP	C-N	5.35	1.41	1.33
1	cf	154	ARG	CD-NE	5.35	1.53	1.46
1	cq	156	GLY	N-CA	5.35	1.50	1.43
1	1h	176	GLN	N-CA	-5.35	1.39	1.46
1	dk	146	SER	CA-C	-5.35	1.46	1.52
1	dC	87	HIS	C-N	5.35	1.40	1.33
1	ev	3	VAL	N-CA	-5.35	1.40	1.46
1	f8	17	PRO	N-CA	-5.35	1.40	1.47
1	fm	145	TYR	C-O	-5.35	1.17	1.24
1	fy	94	GLY	CA-C	-5.35	1.44	1.51
1	fR	97	ARG	N-CA	-5.35	1.38	1.45
1	fT	12	HIS	CA-C	5.35	1.59	1.52
1	8	165	VAL	CA-C	5.35	1.59	1.52
1	gg	18	ARG	N-CA	-5.34	1.40	1.46
1	gn	138	LEU	CA-C	5.34	1.60	1.52
1	gC	206	GLY	CA-C	5.34	1.59	1.51
1	gH	77	ALA	C-O	-5.34	1.17	1.24
1	gO	33	SER	C-O	-5.34	1.18	1.24
1	gZ	82	ARG	CA-C	5.34	1.59	1.52
1	h3	85	PRO	C-N	-5.34	1.28	1.33
1	ha	112	GLN	C-N	5.34	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hb	121	ASN	C-N	-5.34	1.24	1.34
1	hk	213	GLU	CA-CB	5.34	1.61	1.53
1	hF	230	VAL	CA-CB	-5.34	1.48	1.54
1	hG	90	PRO	CA-C	5.34	1.59	1.53
1	hU	172	LEU	C-N	5.34	1.41	1.33
1	hY	198	CYS	CA-C	-5.34	1.45	1.52
1	i5	122	PRO	N-CD	-5.34	1.40	1.47
1	i5	127	GLY	CA-C	-5.34	1.46	1.52
1	if	142	VAL	CA-CB	-5.34	1.48	1.54
1	ih	12	HIS	C-O	5.34	1.30	1.23
1	in	226	HIS	CB-CG	5.34	1.57	1.50
1	iF	114	GLN	N-CA	5.34	1.52	1.46
1	j4	173	ARG	CA-C	-5.34	1.45	1.52
1	j7	17	PRO	CA-CB	5.34	1.61	1.53
1	j8	145	TYR	N-CA	-5.34	1.39	1.46
1	je	164	TYR	N-CA	5.34	1.52	1.46
1	jf	122	PRO	N-CD	-5.34	1.40	1.47
1	jC	219	GLN	CA-C	-5.34	1.45	1.52
1	jO	118	MET	N-CA	5.34	1.53	1.46
1	jP	44	SER	CA-CB	5.34	1.60	1.53
1	jR	160	PRO	N-CA	-5.34	1.40	1.47
1	k1	85	PRO	CA-CB	-5.34	1.48	1.53
1	k7	133	TRP	NE1-CE2	5.34	1.43	1.37
1	k9	212	GLU	CA-CB	5.34	1.61	1.53
1	ki	115	ILE	CB-CG1	5.34	1.64	1.53
1	kl	146	SER	N-CA	5.34	1.53	1.46
1	kS	221	VAL	N-CA	5.34	1.53	1.46
1	kX	100	ARG	C-N	5.34	1.41	1.33
1	l5	124	ILE	CA-C	-5.34	1.48	1.53
1	l8	131	LYS	C-N	5.34	1.41	1.33
1	ld	34	PRO	C-O	-5.34	1.17	1.24
1	ls	66	MET	CA-CB	5.34	1.62	1.53
1	ly	78	ALA	CA-C	5.34	1.59	1.52
1	2b	62	HIS	ND1-CE1	-5.34	1.27	1.32
1	2z	69	LEU	C-N	5.34	1.41	1.34
1	2E	138	LEU	CB-CG	5.34	1.64	1.53
1	2F	46	GLY	C-O	-5.34	1.17	1.24
1	2F	133	TRP	CA-CB	5.34	1.61	1.53
1	2N	62	HIS	CA-CB	5.34	1.62	1.53
1	2Z	64	ALA	C-N	5.34	1.41	1.33
1	3u	230	VAL	CA-CB	-5.34	1.47	1.54
1	3v	160	PRO	N-CD	-5.34	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3x	167	ARG	CA-C	5.34	1.59	1.52
1	3V	139	ASN	CA-CB	5.34	1.61	1.53
1	3X	129	ILE	C-N	5.34	1.40	1.33
1	3Y	191	VAL	CA-C	-5.34	1.45	1.52
1	48	117	TRP	CA-CB	5.34	1.61	1.53
1	49	173	ARG	CD-NE	5.34	1.53	1.46
1	4a	28	GLU	CA-C	-5.34	1.46	1.52
1	4m	38	PRO	CA-CB	5.34	1.61	1.53
1	4G	198	CYS	CA-C	5.34	1.59	1.52
1	4K	154	ARG	CA-CB	5.34	1.62	1.53
1	5t	148	THR	C-N	5.34	1.40	1.33
1	5w	87	HIS	CA-C	5.34	1.59	1.52
1	5x	76	GLU	C-N	5.34	1.40	1.33
1	5Q	62	HIS	CD2-NE2	-5.34	1.31	1.37
1	5V	71	GLU	CA-CB	5.34	1.61	1.53
1	6t	17	PRO	N-CD	5.34	1.55	1.47
1	6F	123	PRO	CA-C	5.34	1.58	1.52
1	72	104	ILE	CA-CB	5.34	1.61	1.54
1	7I	23	TRP	CA-C	5.34	1.59	1.52
1	7M	86	VAL	C-O	-5.34	1.18	1.24
1	8a	179	GLN	CA-C	5.34	1.59	1.52
1	8F	184	TRP	CA-CB	5.34	1.61	1.53
1	8O	173	ARG	CA-CB	5.34	1.61	1.53
1	8W	9	GLN	N-CA	-5.34	1.39	1.45
1	9f	27	VAL	N-CA	5.34	1.52	1.46
1	9k	25	LYS	CA-C	5.34	1.59	1.52
1	aJ	120	HIS	ND1-CE1	5.34	1.37	1.32
1	aN	70	LYS	C-N	5.34	1.41	1.33
1	aW	129	ILE	C-O	-5.34	1.17	1.24
1	bf	41	SER	N-CA	5.34	1.52	1.46
1	bp	64	ALA	CA-CB	5.34	1.61	1.53
1	bv	151	LEU	CA-C	5.34	1.60	1.52
1	bw	25	LYS	C-N	5.34	1.40	1.34
1	bw	226	HIS	ND1-CE1	5.34	1.37	1.32
1	bE	229	ARG	CD-NE	5.34	1.53	1.46
1	bM	58	THR	C-N	5.34	1.41	1.33
1	1b	84	HIS	CA-CB	5.34	1.62	1.53
1	c6	74	ASN	N-CA	5.34	1.52	1.46
1	cb	73	ILE	C-O	-5.34	1.17	1.24
1	cy	127	GLY	N-CA	5.34	1.53	1.45
1	cP	76	GLU	CA-CB	5.34	1.61	1.53
1	dd	70	LYS	CA-C	-5.34	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dP	81	ASP	N-CA	-5.34	1.39	1.46
1	dT	91	ILE	CB-CG1	5.34	1.64	1.53
1	dU	148	THR	CA-C	-5.34	1.46	1.52
1	e3	2	ILE	N-CA	-5.34	1.39	1.46
1	ej	71	GLU	CA-CB	5.34	1.61	1.53
1	1q	123	PRO	N-CA	5.34	1.53	1.47
1	er	24	VAL	CA-CB	5.34	1.60	1.54
1	eH	191	VAL	CA-CB	-5.34	1.47	1.54
1	eQ	199	LYS	CA-CB	5.34	1.62	1.53
1	eZ	22	ALA	C-N	5.34	1.40	1.33
1	eZ	71	GLU	CA-CB	5.34	1.61	1.53
1	f7	14	ALA	C-N	5.34	1.40	1.33
1	fd	92	GLU	CA-C	5.34	1.59	1.52
1	fd	129	ILE	C-N	5.34	1.41	1.34
1	fC	139	ASN	C-N	5.34	1.40	1.33
1	fC	214	MET	CA-CB	5.34	1.61	1.53
1	fN	84	HIS	ND1-CE1	5.34	1.37	1.32
1	g3	20	LEU	N-CA	-5.34	1.40	1.46
1	g7	56	LEU	C-N	5.34	1.41	1.34
1	1B	31	ALA	CA-CB	5.34	1.59	1.53
1	g	213	GLU	C-N	5.34	1.40	1.33
1	i	121	ASN	CA-CB	5.34	1.60	1.53
1	x	42	ALA	C-N	5.34	1.41	1.33
1	U	136	LEU	CA-CB	-5.34	1.45	1.53
1	6	142	VAL	N-CA	-5.34	1.40	1.46
1	1D	67	GLN	CA-C	5.34	1.59	1.52
1	gG	128	GLU	CA-C	-5.34	1.46	1.52
1	gK	112	GLN	CA-C	5.34	1.59	1.52
1	gP	164	TYR	C-N	5.34	1.40	1.34
1	gX	139	ASN	N-CA	-5.34	1.39	1.46
1	hw	103	ASP	C-N	5.34	1.39	1.34
1	hE	174	ALA	N-CA	5.34	1.53	1.46
1	hO	229	ARG	CZ-NH2	-5.34	1.26	1.33
1	i9	12	HIS	CG-CD2	5.34	1.41	1.35
1	iF	231	LEU	CB-CG	5.34	1.64	1.53
1	j5	125	PRO	CA-C	5.34	1.59	1.52
1	jI	149	SER	C-N	5.34	1.39	1.34
1	jX	71	GLU	N-CA	-5.34	1.40	1.46
1	kh	204	ALA	N-CA	-5.34	1.39	1.46
1	kq	80	TRP	NE1-CE2	-5.34	1.31	1.37
1	lc	149	SER	CA-CB	5.34	1.63	1.53
1	lB	97	ARG	N-CA	-5.34	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lH	82	ARG	C-N	5.34	1.40	1.33
1	lK	144	MET	CA-CB	5.34	1.62	1.53
1	2b	106	GLY	CA-C	5.34	1.59	1.51
1	3f	217	ALA	CA-C	5.34	1.60	1.53
1	3B	22	ALA	CA-CB	5.34	1.61	1.53
1	3O	165	VAL	CA-CB	5.34	1.61	1.54
1	44	124	ILE	CA-C	5.34	1.57	1.53
1	4K	62	HIS	CG-CD2	-5.34	1.29	1.35
1	4Q	31	ALA	CA-C	5.34	1.59	1.52
1	4R	134	ILE	CA-CB	5.34	1.60	1.54
1	59	55	MET	CA-C	-5.34	1.45	1.52
1	5W	157	PRO	N-CA	5.34	1.54	1.47
1	6h	87	HIS	CA-CB	5.34	1.63	1.53
1	6z	166	ASP	C-N	5.34	1.41	1.33
1	73	56	LEU	C-N	5.34	1.41	1.33
1	77	59	VAL	CA-CB	5.34	1.59	1.54
1	7l	87	HIS	ND1-CE1	5.34	1.37	1.32
1	8w	4	GLN	CA-C	5.34	1.59	1.52
1	Y	23	TRP	CA-CB	5.34	1.61	1.53
1	9Y	223	GLY	N-CA	5.34	1.52	1.44
1	ai	65	ALA	CA-CB	-5.34	1.45	1.53
1	az	202	LEU	CA-CB	5.34	1.61	1.53
1	14	134	ILE	N-CA	-5.34	1.40	1.46
1	b8	187	GLU	CA-C	-5.34	1.46	1.52
1	b9	125	PRO	CA-C	5.34	1.57	1.53
1	1a	20	LEU	CA-C	-5.34	1.45	1.52
1	c2	41	SER	CA-C	5.34	1.59	1.52
1	cu	69	LEU	C-N	5.34	1.40	1.33
1	cN	171	THR	N-CA	5.34	1.52	1.46
1	d7	209	ALA	CA-CB	-5.34	1.44	1.53
1	dl	69	LEU	C-N	5.34	1.41	1.33
1	ev	111	LEU	N-CA	5.34	1.52	1.46
1	eO	164	TYR	CA-CB	5.34	1.61	1.53
1	1v	180	GLU	C-N	5.34	1.40	1.34
1	fr	133	TRP	C-N	5.34	1.40	1.33
1	6	143	ARG	CD-NE	5.34	1.53	1.46
1	g8	198	CYS	CA-C	-5.34	1.46	1.52
1	ga	190	LEU	CA-CB	5.34	1.61	1.53
1	gb	206	GLY	C-N	-5.34	1.28	1.34
1	gg	20	LEU	CA-CB	5.34	1.61	1.53
1	gE	195	ASN	CA-C	5.34	1.58	1.53
1	gH	28	GLU	CA-CB	5.34	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gT	12	HIS	ND1-CE1	5.34	1.37	1.32
1	gW	143	ARG	CA-C	-5.34	1.45	1.52
1	h5	154	ARG	NE-CZ	5.34	1.39	1.33
1	h7	221	VAL	N-CA	5.34	1.51	1.46
1	hs	158	LYS	CA-C	5.34	1.59	1.52
1	hG	190	LEU	CB-CG	5.34	1.64	1.53
1	1L	15	ILE	CA-CB	5.34	1.61	1.53
1	hW	120	HIS	N-CA	5.34	1.52	1.45
1	if	34	PRO	N-CD	-5.34	1.40	1.47
1	iD	136	LEU	CA-CB	5.34	1.62	1.53
1	iK	123	PRO	N-CD	5.34	1.55	1.47
1	iM	95	GLN	CA-C	5.34	1.59	1.52
1	iN	120	HIS	ND1-CE1	5.34	1.37	1.32
1	iS	138	LEU	N-CA	5.34	1.52	1.46
1	j1	39	MET	N-CA	5.34	1.52	1.46
1	j1	74	ASN	N-CA	5.34	1.52	1.46
1	j3	47	ALA	N-CA	-5.34	1.39	1.46
1	j4	120	HIS	ND1-CE1	5.34	1.37	1.32
1	jk	8	GLY	CA-C	-5.34	1.43	1.51
1	jw	60	GLY	C-N	5.34	1.41	1.33
1	jy	85	PRO	N-CD	5.34	1.55	1.47
1	jI	176	GLN	C-N	5.34	1.40	1.33
1	k6	58	THR	CA-CB	-5.34	1.44	1.53
1	k9	150	ILE	CA-C	-5.34	1.45	1.52
1	kv	62	HIS	CD2-NE2	5.34	1.43	1.37
1	kC	2	ILE	CA-C	5.34	1.59	1.52
1	23	162	ARG	NE-CZ	-5.34	1.27	1.33
1	26	172	LEU	CA-C	5.34	1.59	1.52
1	l8	6	LEU	CB-CG	5.34	1.64	1.53
1	lf	229	ARG	CZ-NH2	-5.34	1.26	1.33
1	2s	110	THR	CA-CB	5.34	1.61	1.53
1	2Y	15	ILE	N-CA	-5.34	1.39	1.46
1	3t	40	PHE	CA-CB	5.34	1.61	1.53
1	3v	135	ILE	CA-C	5.34	1.59	1.52
1	3z	161	PHE	CA-CB	5.34	1.62	1.53
1	3E	123	PRO	C-N	5.34	1.39	1.33
1	4g	51	ASP	C-O	-5.34	1.17	1.24
1	4n	73	ILE	CA-CB	5.34	1.61	1.54
1	4o	181	VAL	CA-CB	-5.34	1.48	1.54
1	5o	206	GLY	C-N	-5.34	1.28	1.34
1	5q	202	LEU	CA-C	5.34	1.59	1.52
1	5J	224	PRO	CA-C	-5.34	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5O	15	ILE	C-N	5.34	1.42	1.33
1	5T	141	ILE	CB-CG1	5.34	1.64	1.53
1	6x	209	ALA	CA-C	-5.34	1.46	1.52
1	7w	154	ARG	CD-NE	5.34	1.53	1.46
1	7E	120	HIS	ND1-CE1	5.34	1.37	1.32
1	7L	75	GLU	C-O	-5.34	1.17	1.24
1	7Q	122	PRO	CA-C	5.34	1.63	1.52
1	7Q	196	PRO	C-N	5.34	1.40	1.33
1	88	61	GLY	N-CA	5.34	1.51	1.45
1	8A	72	THR	CA-C	5.34	1.59	1.52
1	8W	13	GLN	CA-C	-5.34	1.46	1.52
1	9q	100	ARG	NE-CZ	-5.34	1.27	1.33
1	9v	82	ARG	CA-CB	5.34	1.62	1.53
1	9V	5	ASN	CA-CB	5.34	1.63	1.52
1	a8	93	PRO	N-CA	-5.34	1.40	1.47
1	a8	191	VAL	CA-CB	-5.34	1.47	1.54
1	aq	164	TYR	CA-C	5.34	1.59	1.52
1	b7	3	VAL	CA-C	-5.34	1.46	1.52
1	b9	147	PRO	N-CA	5.34	1.54	1.47
1	bo	202	LEU	CA-C	5.34	1.59	1.52
1	bx	226	HIS	CA-CB	5.34	1.61	1.53
1	bF	68	MET	C-N	5.34	1.40	1.33
1	cc	63	GLN	CD-NE2	5.34	1.44	1.33
1	ce	23	TRP	CA-C	5.34	1.57	1.53
1	cf	210	THR	CA-C	5.34	1.60	1.53
1	cG	103	ASP	N-CA	-5.34	1.40	1.46
1	cL	100	ARG	CZ-NH2	-5.34	1.26	1.33
1	d7	172	LEU	CA-CB	5.34	1.62	1.53
1	dj	94	GLY	C-N	5.34	1.40	1.33
1	dn	143	ARG	CA-CB	5.34	1.61	1.53
1	dq	100	ARG	C-N	5.34	1.40	1.33
1	1m	161	PHE	CA-C	5.34	1.59	1.52
1	en	15	ILE	N-CA	5.34	1.52	1.46
1	f9	173	ARG	CA-C	5.34	1.59	1.52
1	fb	62	HIS	CA-CB	5.34	1.62	1.53
1	fL	4	GLN	CA-CB	5.34	1.60	1.53
1	fV	93	PRO	CA-CB	5.34	1.61	1.53
1	i	132	ARG	NE-CZ	5.34	1.39	1.33
1	t	32	PHE	CA-CB	5.34	1.62	1.53
1	t	64	ALA	C-O	5.34	1.30	1.24
1	4	91	ILE	CA-CB	5.34	1.60	1.54
1	R	63	GLN	C-N	5.34	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	192	GLN	CA-CB	5.34	1.62	1.53
1	g9	226	HIS	ND1-CE1	5.34	1.37	1.32
1	gl	59	VAL	CA-C	5.34	1.59	1.52
1	gm	59	VAL	CA-C	5.34	1.59	1.52
1	gz	54	THR	C-N	5.34	1.40	1.33
1	ha	29	GLU	CA-C	5.34	1.60	1.52
1	hn	207	PRO	CA-C	5.34	1.59	1.52
1	hD	52	LEU	CA-CB	5.34	1.61	1.53
1	1M	184	TRP	CA-CB	5.34	1.61	1.53
1	1Q	155	GLN	CA-CB	5.34	1.62	1.53
1	iy	138	LEU	C-O	5.34	1.30	1.24
1	iJ	120	HIS	CA-C	-5.34	1.46	1.53
1	iT	111	LEU	CB-CG	5.34	1.64	1.53
1	jy	29	GLU	C-N	-5.34	1.26	1.33
1	jE	50	GLN	C-O	-5.34	1.18	1.24
1	jL	141	ILE	C-N	-5.34	1.27	1.33
1	jN	132	ARG	C-N	5.34	1.41	1.33
1	k3	184	TRP	CA-CB	5.34	1.61	1.53
1	ko	98	GLU	CA-CB	5.34	1.61	1.53
1	kN	59	VAL	C-N	5.34	1.41	1.33
1	l3	199	LYS	C-N	5.34	1.40	1.33
1	lc	230	VAL	N-CA	-5.34	1.40	1.46
1	ld	80	TRP	NE1-CE2	-5.34	1.31	1.37
1	lp	97	ARG	CA-CB	5.34	1.59	1.52
1	lL	180	GLU	C-N	5.34	1.40	1.33
1	2b	178	SER	N-CA	5.34	1.52	1.45
1	2s	114	GLN	N-CA	-5.34	1.39	1.46
1	2M	29	GLU	CA-CB	5.34	1.61	1.53
1	2U	6	LEU	C-O	-5.34	1.17	1.24
1	3h	125	PRO	CA-CB	5.34	1.61	1.53
1	3n	79	GLU	CA-CB	5.34	1.61	1.53
1	3o	37	ILE	C-N	5.34	1.40	1.34
1	3u	158	LYS	N-CA	5.34	1.53	1.45
1	3B	30	LYS	CA-C	-5.34	1.45	1.52
1	3O	182	LYS	C-O	-5.34	1.18	1.24
1	3Q	34	PRO	CA-C	5.34	1.59	1.52
1	42	84	HIS	CA-CB	5.34	1.61	1.53
1	45	146	SER	CA-C	5.34	1.58	1.52
1	4f	221	VAL	N-CA	5.34	1.52	1.46
1	4r	171	THR	CA-C	5.34	1.59	1.52
1	4s	40	PHE	C-O	-5.34	1.17	1.24
1	4w	55	MET	N-CA	-5.34	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4y	120	HIS	ND1-CE1	5.34	1.37	1.32
1	4K	6	LEU	N-CA	5.34	1.52	1.46
1	4M	213	GLU	N-CA	-5.34	1.39	1.46
1	4O	69	LEU	CA-C	5.34	1.59	1.52
1	4U	88	ALA	N-CA	-5.34	1.39	1.46
1	4W	4	GLN	C-N	5.34	1.41	1.33
1	4X	169	TYR	CA-CB	5.34	1.61	1.53
1	52	90	PRO	CA-C	-5.34	1.44	1.52
1	55	51	ASP	CA-C	-5.34	1.45	1.52
1	5n	59	VAL	CA-C	-5.34	1.46	1.52
1	5D	179	GLN	C-O	-5.34	1.18	1.24
1	5J	68	MET	CA-C	-5.34	1.46	1.52
1	5O	229	ARG	CD-NE	5.34	1.53	1.46
1	5Q	100	ARG	CA-C	5.34	1.60	1.53
1	5Q	131	LYS	CA-CB	5.34	1.61	1.53
1	5W	2	ILE	N-CA	-5.34	1.39	1.46
1	6b	59	VAL	C-N	5.34	1.41	1.33
1	6b	188	THR	CA-C	5.34	1.60	1.52
1	6s	121	ASN	C-O	-5.34	1.18	1.25
1	70	102	SER	CA-CB	5.34	1.61	1.53
1	73	67	GLN	CA-CB	5.34	1.61	1.53
1	7f	19	THR	CA-C	5.34	1.59	1.52
1	7f	140	LYS	CA-CB	5.34	1.61	1.53
1	7l	126	VAL	CA-C	5.34	1.59	1.52
1	7m	20	LEU	CA-CB	5.34	1.61	1.53
1	7q	116	GLY	C-N	-5.34	1.26	1.33
1	82	115	ILE	CA-C	5.34	1.59	1.52
1	83	179	GLN	N-CA	5.34	1.52	1.46
1	83	211	LEU	CA-CB	5.34	1.61	1.53
1	89	21	ASN	N-CA	-5.34	1.39	1.46
1	8f	179	GLN	C-N	5.34	1.41	1.33
1	8l	206	GLY	C-N	5.34	1.40	1.34
1	8q	28	GLU	N-CA	5.34	1.52	1.46
1	8t	62	HIS	CD2-NE2	5.34	1.43	1.37
1	8D	226	HIS	CG-ND1	-5.34	1.32	1.38
1	8U	44	SER	CA-CB	5.34	1.62	1.53
1	91	87	HIS	CE1-NE2	-5.34	1.27	1.32
1	9e	145	TYR	N-CA	-5.34	1.39	1.46
1	9J	120	HIS	CA-CB	5.34	1.60	1.53
1	a9	85	PRO	N-CA	-5.34	1.40	1.47
1	a9	205	LEU	CA-CB	5.34	1.62	1.53
1	aj	191	VAL	CA-C	-5.34	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aq	103	ASP	CA-C	5.34	1.59	1.52
1	aI	69	LEU	C-O	-5.34	1.18	1.24
1	aN	168	PHE	CA-C	5.34	1.59	1.52
1	b3	34	PRO	CA-C	-5.34	1.44	1.52
1	b9	21	ASN	N-CA	-5.34	1.39	1.46
1	bc	140	LYS	C-O	-5.34	1.17	1.24
1	be	117	TRP	CA-C	-5.34	1.46	1.52
1	bs	21	ASN	CA-CB	5.34	1.61	1.53
1	bv	2	ILE	CA-C	5.34	1.58	1.52
1	bE	97	ARG	N-CA	-5.34	1.39	1.46
1	cb	81	ASP	C-N	5.34	1.40	1.33
1	cb	133	TRP	NE1-CE2	-5.34	1.31	1.37
1	cc	37	ILE	CA-CB	-5.34	1.51	1.54
1	cf	128	GLU	C-N	5.34	1.40	1.33
1	ci	228	ALA	N-CA	-5.34	1.39	1.46
1	cy	114	GLN	CA-CB	5.34	1.61	1.53
1	cZ	201	ILE	N-CA	5.34	1.52	1.46
1	da	149	SER	CA-CB	5.34	1.61	1.53
1	da	182	LYS	C-O	-5.34	1.17	1.24
1	dn	87	HIS	CA-CB	5.34	1.62	1.53
1	dr	54	THR	C-N	5.34	1.40	1.33
1	1l	96	MET	CG-SD	5.34	1.94	1.80
1	dJ	114	GLN	C-O	-5.34	1.18	1.24
1	dU	88	ALA	C-N	5.34	1.41	1.33
1	e0	28	GLU	CA-C	-5.34	1.46	1.52
1	e3	42	ALA	N-CA	-5.34	1.39	1.46
1	ek	113	GLU	CA-CB	5.34	1.61	1.53
1	en	143	ARG	C-O	5.34	1.30	1.24
1	ez	226	HIS	N-CA	5.34	1.52	1.46
1	eC	112	GLN	C-N	5.34	1.41	1.33
1	eI	46	GLY	N-CA	5.34	1.53	1.45
1	eR	167	ARG	C-N	5.34	1.40	1.33
1	eY	57	ASN	C-N	-5.34	1.26	1.33
1	f9	68	MET	C-N	5.34	1.40	1.33
1	fb	121	ASN	CA-C	5.34	1.58	1.52
1	fm	7	GLN	CA-C	5.34	1.59	1.52
1	g7	120	HIS	ND1-CE1	5.34	1.37	1.32
1	g7	171	THR	CA-C	-5.34	1.46	1.52
1	k	71	GLU	C-N	5.34	1.40	1.33
1	n	21	ASN	CA-C	-5.34	1.45	1.52
1	n	218	CYS	CA-C	5.34	1.59	1.52
1	r	57	ASN	CA-C	-5.34	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	219	GLN	C-N	5.34	1.40	1.33
1	M	229	ARG	C-N	5.34	1.40	1.33
1	Q	84	HIS	N-CA	5.34	1.53	1.46
1	gi	167	ARG	N-CA	5.34	1.52	1.46
1	gr	166	ASP	N-CA	-5.34	1.39	1.46
1	gy	62	HIS	CA-C	-5.34	1.46	1.53
1	1G	120	HIS	CA-CB	5.34	1.61	1.53
1	hb	87	HIS	CE1-NE2	-5.34	1.27	1.32
1	hm	203	LYS	N-CA	-5.34	1.40	1.46
1	hn	36	VAL	CA-C	5.34	1.60	1.52
1	hz	48	THR	CA-CB	5.34	1.61	1.53
1	hQ	167	ARG	C-N	5.34	1.40	1.33
1	hZ	159	GLU	CA-C	-5.34	1.47	1.53
1	it	7	GLN	N-CA	5.34	1.55	1.46
1	iL	21	ASN	N-CA	-5.34	1.40	1.46
1	iU	147	PRO	N-CA	-5.34	1.43	1.47
1	jW	201	ILE	N-CA	-5.34	1.40	1.46
1	ke	126	VAL	CA-CB	5.34	1.61	1.54
1	kr	66	MET	CA-CB	5.34	1.62	1.53
1	kD	20	LEU	N-CA	5.34	1.52	1.46
1	kL	41	SER	C-O	-5.34	1.17	1.24
1	lb	165	VAL	CA-CB	-5.34	1.48	1.54
1	lc	118	MET	C-N	5.34	1.41	1.33
1	ly	155	GLN	N-CA	-5.34	1.39	1.46
1	lK	215	MET	CA-CB	5.34	1.62	1.53
1	4r	108	THR	CA-CB	-5.34	1.45	1.53
1	4u	162	ARG	CD-NE	5.34	1.53	1.46
1	5A	85	PRO	C-N	5.34	1.40	1.33
1	5K	166	ASP	CA-C	5.34	1.59	1.52
1	7a	161	PHE	CA-C	5.34	1.59	1.52
1	7d	148	THR	CA-C	-5.34	1.46	1.52
1	7f	200	THR	N-CA	-5.34	1.40	1.46
1	7h	150	ILE	N-CA	5.34	1.53	1.46
1	7k	115	ILE	C-N	5.34	1.41	1.33
1	7R	213	GLU	N-CA	-5.34	1.40	1.46
1	84	4	GLN	CA-C	5.34	1.59	1.52
1	8q	81	ASP	C-N	5.34	1.41	1.34
1	8y	24	VAL	CA-CB	-5.34	1.47	1.54
1	8O	88	ALA	N-CA	-5.34	1.38	1.46
1	8Z	101	GLY	CA-C	5.34	1.58	1.52
1	90	56	LEU	C-N	5.34	1.40	1.33
1	9f	93	PRO	C-N	5.34	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9L	87	HIS	ND1-CE1	5.34	1.37	1.32
1	a1	131	LYS	C-O	-5.34	1.17	1.24
1	14	157	PRO	C-O	-5.34	1.18	1.24
1	be	35	GLU	C-N	5.34	1.40	1.33
1	bX	224	PRO	N-CA	-5.34	1.40	1.47
1	bZ	157	PRO	CA-CB	-5.34	1.46	1.53
1	ca	87	HIS	CG-ND1	5.34	1.44	1.38
1	cM	113	GLU	CA-C	-5.34	1.46	1.52
1	e5	203	LYS	C-O	5.34	1.30	1.24
1	1p	181	VAL	CA-C	5.34	1.59	1.52
1	er	100	ARG	CD-NE	5.34	1.53	1.46
1	eC	40	PHE	CA-CB	5.34	1.62	1.53
1	eP	153	ILE	CA-CB	-5.34	1.47	1.54
1	fa	161	PHE	CA-C	5.34	1.59	1.52
1	fp	140	LYS	CA-C	5.34	1.59	1.52
1	fs	84	HIS	CA-CB	5.34	1.60	1.53
1	1x	50	GLN	CA-C	5.34	1.59	1.52
1	fy	10	MET	N-CA	-5.34	1.40	1.46
1	fJ	48	THR	C-N	5.34	1.41	1.33
1	fJ	67	GLN	CA-CB	5.34	1.61	1.53
1	g5	94	GLY	C-N	5.34	1.41	1.33
1	t	229	ARG	NE-CZ	5.34	1.39	1.33
1	O	138	LEU	N-CA	-5.34	1.40	1.46
1	gb	71	GLU	CA-C	-5.34	1.45	1.52
1	gg	188	THR	CA-CB	-5.34	1.45	1.53
1	gh	19	THR	CA-CB	5.34	1.61	1.53
1	gi	91	ILE	CB-CG1	5.34	1.64	1.53
1	gm	62	HIS	CE1-NE2	5.34	1.37	1.32
1	gv	61	GLY	N-CA	5.34	1.53	1.45
1	1E	124	ILE	CA-CB	-5.34	1.48	1.53
1	gF	146	SER	CA-C	5.34	1.59	1.52
1	gL	51	ASP	C-O	-5.34	1.17	1.24
1	hi	91	ILE	C-N	5.34	1.39	1.33
1	hj	82	ARG	CA-C	-5.34	1.45	1.52
1	hQ	20	LEU	N-CA	-5.34	1.40	1.46
1	i3	22	ALA	N-CA	5.34	1.52	1.46
1	id	130	TYR	C-N	5.34	1.41	1.33
1	ie	173	ARG	CA-CB	5.34	1.61	1.53
1	in	76	GLU	C-N	5.34	1.41	1.33
1	iM	52	LEU	C-O	-5.34	1.18	1.24
1	iY	24	VAL	CA-C	5.34	1.59	1.52
1	j8	54	THR	C-N	5.34	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jT	132	ARG	CD-NE	5.34	1.53	1.46
1	jV	195	ASN	CA-CB	5.34	1.61	1.53
1	kn	84	HIS	CD2-NE2	5.34	1.43	1.37
1	ko	142	VAL	CA-C	5.34	1.60	1.52
1	kM	6	LEU	C-N	5.34	1.41	1.33
1	kV	144	MET	C-N	5.34	1.41	1.33
1	ld	156	GLY	N-CA	5.34	1.52	1.44
1	ln	112	GLN	CA-C	5.34	1.59	1.52
1	lE	228	ALA	N-CA	5.34	1.52	1.46
1	2E	82	ARG	CA-C	5.34	1.59	1.52
1	2P	168	PHE	CG-CD2	5.34	1.50	1.38
1	31	230	VAL	CA-CB	5.34	1.61	1.54
1	3w	153	ILE	C-N	-5.34	1.26	1.33
1	3y	127	GLY	CA-C	-5.34	1.46	1.52
1	47	205	LEU	C-N	5.34	1.41	1.33
1	4n	214	MET	SD-CE	5.34	1.92	1.79
1	4A	190	LEU	C-N	5.34	1.40	1.33
1	4O	64	ALA	C-N	5.34	1.40	1.33
1	4V	151	LEU	C-N	5.34	1.41	1.33
1	5r	123	PRO	N-CA	-5.34	1.40	1.47
1	5Z	97	ARG	CD-NE	5.34	1.53	1.46
1	66	197	ASP	CA-C	5.34	1.59	1.52
1	6b	129	ILE	CB-CG1	5.34	1.64	1.53
1	6D	136	LEU	C-N	5.34	1.40	1.33
1	6I	10	MET	CA-CB	5.34	1.62	1.53
1	6N	35	GLU	C-N	-5.34	1.27	1.33
1	6R	11	VAL	CA-CB	-5.34	1.47	1.54
1	6S	80	TRP	CA-CB	5.34	1.61	1.53
1	6S	132	ARG	CD-NE	5.34	1.53	1.46
1	6T	124	ILE	CA-C	5.34	1.57	1.53
1	79	37	ILE	CA-C	-5.34	1.47	1.52
1	7k	50	GLN	CA-C	5.34	1.59	1.52
1	7q	68	MET	CA-CB	5.34	1.61	1.53
1	7q	163	ASP	N-CA	-5.34	1.40	1.46
1	7t	44	SER	N-CA	-5.34	1.39	1.46
1	7v	37	ILE	CA-C	5.34	1.57	1.52
1	7O	29	GLU	CA-CB	5.34	1.61	1.53
1	7R	48	THR	CA-CB	5.34	1.61	1.53
1	7V	150	ILE	CA-C	5.34	1.60	1.52
1	8b	84	HIS	C-N	5.34	1.40	1.33
1	8t	133	TRP	NE1-CE2	-5.34	1.31	1.37
1	8x	145	TYR	C-N	5.34	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8B	140	LYS	CA-CB	5.34	1.61	1.53
1	8K	49	PRO	N-CA	5.34	1.54	1.47
1	9e	142	VAL	CA-CB	-5.34	1.47	1.54
1	9j	63	GLN	C-N	5.34	1.40	1.33
1	9U	218	CYS	C-N	5.34	1.41	1.33
1	9W	76	GLU	CA-CB	5.34	1.62	1.53
1	a1	104	ILE	N-CA	5.34	1.53	1.46
1	ag	209	ALA	CA-CB	5.34	1.62	1.53
1	ai	229	ARG	CD-NE	5.34	1.53	1.46
1	aE	89	GLY	N-CA	5.34	1.52	1.44
1	aH	211	LEU	C-N	5.34	1.40	1.33
1	aI	66	MET	N-CA	-5.34	1.39	1.46
1	b3	27	VAL	C-N	5.34	1.41	1.33
1	bo	1	PRO	C-N	5.34	1.39	1.33
1	br	155	GLN	CA-C	-5.34	1.46	1.52
1	bM	93	PRO	CA-C	5.34	1.59	1.52
1	c3	214	MET	CA-CB	5.34	1.62	1.53
1	ca	49	PRO	N-CA	-5.34	1.40	1.47
1	cc	226	HIS	ND1-CE1	5.34	1.37	1.32
1	ce	24	VAL	C-O	-5.34	1.18	1.24
1	d0	74	ASN	C-N	5.34	1.41	1.33
1	dd	82	ARG	CZ-NH1	5.34	1.40	1.32
1	de	67	GLN	CA-C	5.34	1.59	1.52
1	dF	230	VAL	CA-CB	-5.34	1.48	1.54
1	dQ	188	THR	CA-C	-5.34	1.47	1.52
1	dZ	18	ARG	N-CA	-5.34	1.40	1.46
1	e2	87	HIS	CB-CG	5.34	1.57	1.50
1	ej	200	THR	N-CA	5.34	1.52	1.46
1	1q	55	MET	CA-CB	5.34	1.61	1.53
1	1q	75	GLU	N-CA	-5.34	1.40	1.46
1	es	64	ALA	CA-CB	5.34	1.61	1.53
1	eI	62	HIS	CG-ND1	5.34	1.44	1.38
1	eS	175	GLU	C-O	5.34	1.30	1.23
1	f2	149	SER	CA-C	-5.34	1.46	1.52
1	fP	98	GLU	C-N	5.34	1.38	1.33
1	g3	182	LYS	CA-C	-5.34	1.46	1.52
1	b	88	ALA	C-N	5.34	1.41	1.33
1	F	207	PRO	C-N	5.34	1.41	1.33
1	L	206	GLY	C-N	5.34	1.42	1.33
1	9	8	GLY	N-CA	5.34	1.52	1.45
1	gb	161	PHE	N-CA	5.33	1.53	1.46
1	hE	207	PRO	N-CA	-5.33	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hJ	37	ILE	CA-C	5.33	1.58	1.52
1	hW	142	VAL	CA-CB	-5.33	1.47	1.54
1	ie	135	ILE	CA-C	-5.33	1.46	1.52
1	iV	111	LEU	CA-CB	5.33	1.62	1.53
1	iW	19	THR	C-O	5.33	1.30	1.24
1	jh	135	ILE	N-CA	5.33	1.52	1.46
1	jH	55	MET	C-O	-5.33	1.17	1.24
1	jP	89	GLY	N-CA	5.33	1.52	1.44
1	jV	132	ARG	CA-CB	5.33	1.61	1.53
1	kd	3	VAL	C-O	-5.33	1.19	1.24
1	kW	87	HIS	CG-ND1	-5.33	1.32	1.38
1	l0	66	MET	CA-CB	5.33	1.61	1.53
1	lm	167	ARG	CA-CB	5.33	1.61	1.53
1	lz	138	LEU	N-CA	-5.33	1.40	1.46
1	lC	188	THR	N-CA	-5.33	1.40	1.46
1	2A	140	LYS	C-N	5.33	1.40	1.33
1	39	174	ALA	C-N	5.33	1.40	1.33
1	3m	202	LEU	CA-CB	5.33	1.61	1.53
1	3B	94	GLY	C-N	5.33	1.40	1.33
1	3E	135	ILE	CA-C	5.33	1.59	1.52
1	4j	51	ASP	N-CA	5.33	1.52	1.46
1	4V	32	PHE	CA-C	5.33	1.60	1.52
1	5x	136	LEU	C-N	5.33	1.40	1.33
1	6a	85	PRO	CA-CB	5.33	1.61	1.53
1	6B	197	ASP	CA-C	-5.33	1.46	1.52
1	6C	193	ASN	CA-CB	5.33	1.61	1.53
1	7d	87	HIS	N-CA	-5.33	1.39	1.46
1	86	95	GLN	CA-C	5.33	1.58	1.52
1	86	111	LEU	C-N	5.33	1.41	1.34
1	8b	161	PHE	CA-C	5.33	1.59	1.52
1	8B	208	ALA	N-CA	-5.33	1.39	1.46
1	8U	211	LEU	CA-C	5.33	1.59	1.52
1	aa	195	ASN	CA-C	-5.33	1.47	1.53
1	aF	110	THR	CA-C	-5.33	1.45	1.52
1	b7	152	ASP	C-N	5.33	1.40	1.33
1	cz	21	ASN	CA-C	-5.33	1.46	1.52
1	dt	87	HIS	C-N	5.33	1.40	1.33
1	dU	99	PRO	C-N	5.33	1.40	1.33
1	ej	45	GLU	C-O	-5.33	1.17	1.24
1	eJ	7	GLN	C-N	5.33	1.40	1.33
1	eK	227	LYS	C-N	5.33	1.40	1.33
1	eV	16	SER	CA-C	5.33	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fi	92	GLU	N-CA	-5.33	1.38	1.46
1	fO	87	HIS	CE1-NE2	-5.33	1.27	1.32
1	g1	196	PRO	N-CD	-5.33	1.40	1.47
1	i	110	THR	N-CA	5.33	1.52	1.45
1	1	69	LEU	CA-C	5.33	1.59	1.52
1	6	227	LYS	CA-C	5.33	1.59	1.52
1	gc	137	GLY	CA-C	-5.33	1.45	1.51
1	1F	123	PRO	C-N	5.33	1.38	1.33
1	gX	83	LEU	N-CA	-5.33	1.40	1.46
1	h0	166	ASP	N-CA	-5.33	1.40	1.46
1	hq	197	ASP	CA-CB	5.33	1.61	1.53
1	hP	114	GLN	C-N	5.33	1.40	1.33
1	iq	181	VAL	N-CA	5.33	1.52	1.46
1	ix	52	LEU	N-CA	-5.33	1.40	1.46
1	ix	202	LEU	CA-CB	5.33	1.61	1.53
1	iK	123	PRO	CA-C	5.33	1.58	1.52
1	iW	81	ASP	N-CA	-5.33	1.40	1.46
1	iX	102	SER	CA-C	-5.33	1.46	1.52
1	js	87	HIS	CG-CD2	5.33	1.41	1.35
1	1W	40	PHE	N-CA	-5.33	1.40	1.46
1	jE	69	LEU	C-N	5.33	1.41	1.33
1	1Y	40	PHE	CA-CB	5.33	1.61	1.53
1	1Z	164	TYR	C-N	5.33	1.40	1.33
1	k7	100	ARG	CZ-NH2	-5.33	1.26	1.33
1	kl	52	LEU	N-CA	-5.33	1.39	1.46
1	km	74	ASN	C-N	5.33	1.41	1.33
1	ko	216	THR	C-N	5.33	1.40	1.33
1	ku	219	GLN	C-N	5.33	1.41	1.33
1	kw	62	HIS	N-CA	5.33	1.53	1.46
1	kS	137	GLY	C-O	-5.33	1.17	1.23
1	kU	44	SER	N-CA	5.33	1.52	1.46
1	l9	46	GLY	CA-C	-5.33	1.43	1.51
1	lk	32	PHE	CA-CB	5.33	1.60	1.53
1	ln	93	PRO	N-CA	-5.33	1.40	1.47
1	28	112	GLN	N-CA	-5.33	1.40	1.46
1	lx	212	GLU	N-CA	-5.33	1.40	1.46
1	lG	229	ARG	CD-NE	5.33	1.53	1.46
1	2b	221	VAL	CA-C	-5.33	1.46	1.53
1	2n	38	PRO	N-CA	-5.33	1.40	1.47
1	2u	197	ASP	CA-C	5.33	1.59	1.52
1	2x	108	THR	C-N	5.33	1.40	1.33
1	2y	103	ASP	CA-CB	5.33	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2G	166	ASP	N-CA	-5.33	1.40	1.46
1	2Q	98	GLU	CA-C	5.33	1.59	1.52
1	2U	26	VAL	CA-CB	5.33	1.61	1.54
1	38	146	SER	CA-CB	5.33	1.60	1.53
1	3i	18	ARG	C-N	5.33	1.41	1.33
1	3L	34	PRO	N-CD	-5.33	1.40	1.47
1	3R	201	ILE	C-O	-5.33	1.18	1.24
1	4c	133	TRP	N-CA	5.33	1.52	1.46
1	4m	27	VAL	CA-CB	-5.33	1.46	1.54
1	4n	63	GLN	C-N	5.33	1.41	1.33
1	4U	91	ILE	CA-C	5.33	1.60	1.52
1	50	36	VAL	CA-CB	-5.33	1.47	1.54
1	54	12	HIS	N-CA	-5.33	1.39	1.46
1	5e	113	GLU	C-N	5.33	1.40	1.33
1	5U	63	GLN	C-N	5.33	1.41	1.33
1	63	133	TRP	C-N	5.33	1.40	1.33
1	6l	229	ARG	CD-NE	5.33	1.53	1.46
1	6q	79	GLU	C-N	5.33	1.41	1.33
1	6u	149	SER	N-CA	5.33	1.52	1.45
1	6u	201	ILE	C-N	5.33	1.41	1.33
1	6N	82	ARG	C-N	5.33	1.41	1.33
1	6P	167	ARG	N-CA	-5.33	1.40	1.46
1	6R	198	CYS	CA-CB	5.33	1.61	1.53
1	6W	126	VAL	N-CA	-5.33	1.38	1.46
1	6Z	120	HIS	CB-CG	5.33	1.57	1.50
1	7j	50	GLN	CA-CB	5.33	1.61	1.53
1	7n	110	THR	C-N	5.33	1.40	1.33
1	7F	83	LEU	CA-CB	5.33	1.61	1.53
1	7I	132	ARG	CZ-NH2	-5.33	1.26	1.33
1	8z	229	ARG	CD-NE	5.33	1.53	1.46
1	8M	197	ASP	CA-CB	5.33	1.61	1.53
1	8W	127	GLY	N-CA	5.33	1.52	1.45
1	90	163	ASP	C-N	5.33	1.41	1.33
1	9i	114	GLN	C-N	5.33	1.40	1.33
1	9o	208	ALA	CA-CB	5.33	1.61	1.53
1	9q	127	GLY	CA-C	-5.33	1.45	1.52
1	9C	4	GLN	CA-CB	5.33	1.62	1.53
1	9C	136	LEU	CA-CB	5.33	1.61	1.53
1	9F	168	PHE	C-N	5.33	1.41	1.33
1	9U	207	PRO	N-CD	-5.33	1.40	1.47
1	9X	57	ASN	CA-CB	5.33	1.62	1.53
1	af	165	VAL	CA-C	5.33	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aq	156	GLY	N-CA	5.33	1.52	1.44
1	aq	157	PRO	C-N	5.33	1.41	1.33
1	aI	183	ASN	C-N	5.33	1.41	1.34
1	aL	160	PRO	C-N	5.33	1.41	1.33
1	14	176	GLN	CA-C	5.33	1.59	1.52
1	aR	215	MET	CA-CB	5.33	1.62	1.53
1	bd	139	ASN	CA-CB	5.33	1.62	1.53
1	bx	113	GLU	N-CA	-5.33	1.40	1.46
1	19	180	GLU	C-N	5.33	1.40	1.33
1	bJ	175	GLU	CA-CB	5.33	1.61	1.53
1	bJ	190	LEU	CA-C	-5.33	1.45	1.52
1	bM	57	ASN	CA-C	5.33	1.59	1.52
1	bT	34	PRO	CA-CB	5.33	1.61	1.53
1	c0	51	ASP	C-N	5.33	1.41	1.33
1	cv	134	ILE	N-CA	5.33	1.52	1.46
1	cO	203	LYS	CA-C	-5.33	1.45	1.52
1	cZ	126	VAL	C-N	5.33	1.40	1.33
1	d6	172	LEU	N-CA	5.33	1.53	1.46
1	d7	173	ARG	CA-CB	5.33	1.62	1.53
1	dd	18	ARG	CD-NE	5.33	1.53	1.46
1	dj	186	THR	CA-C	5.33	1.59	1.52
1	1k	162	ARG	CA-CB	5.33	1.61	1.53
1	dt	203	LYS	CA-CB	5.33	1.61	1.53
1	dw	87	HIS	C-N	5.33	1.40	1.33
1	1l	198	CYS	C-N	5.33	1.40	1.33
1	dy	164	TYR	C-N	5.33	1.40	1.33
1	dB	178	SER	CA-C	5.33	1.60	1.53
1	dX	51	ASP	CA-C	5.33	1.59	1.52
1	e9	104	ILE	N-CA	-5.33	1.40	1.46
1	eo	26	VAL	C-O	5.33	1.30	1.24
1	ex	126	VAL	C-N	5.33	1.40	1.33
1	eM	103	ASP	C-N	5.33	1.40	1.33
1	1t	45	GLU	CA-CB	5.33	1.62	1.53
1	f8	63	GLN	CA-CB	5.33	1.62	1.53
1	fc	90	PRO	CA-C	5.33	1.59	1.52
1	fz	74	ASN	CA-C	-5.33	1.46	1.52
1	fJ	132	ARG	CA-C	5.33	1.59	1.52
1	1z	167	ARG	CD-NE	5.33	1.53	1.46
1	l	218	CYS	CA-CB	5.33	1.62	1.53
1	t	14	ALA	C-N	5.33	1.40	1.33
1	2	3	VAL	CA-C	5.33	1.58	1.52
1	u	2	ILE	N-CA	-5.33	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	32	PHE	C-N	5.33	1.39	1.33
1	gb	40	PHE	CA-C	5.33	1.59	1.52
1	gq	25	LYS	CA-CB	5.33	1.61	1.53
1	gr	37	ILE	CA-C	5.33	1.58	1.52
1	h1	54	THR	C-O	-5.33	1.17	1.24
1	hf	17	PRO	N-CA	-5.33	1.40	1.47
1	hl	129	ILE	N-CA	-5.33	1.40	1.46
1	hm	55	MET	CA-CB	5.33	1.62	1.53
1	hq	20	LEU	N-CA	5.33	1.52	1.46
1	hD	84	HIS	ND1-CE1	5.33	1.37	1.32
1	hZ	14	ALA	CA-C	5.33	1.59	1.52
1	if	146	SER	N-CA	5.33	1.53	1.46
1	ij	218	CYS	C-N	5.33	1.41	1.33
1	iw	100	ARG	CZ-NH2	-5.33	1.26	1.33
1	1Q	184	TRP	CA-CB	5.33	1.62	1.53
1	iG	100	ARG	N-CA	-5.33	1.39	1.45
1	iJ	23	TRP	C-O	-5.33	1.18	1.24
1	j0	144	MET	C-N	5.33	1.41	1.33
1	jk	216	THR	N-CA	5.33	1.52	1.46
1	1V	109	SER	CA-C	-5.33	1.46	1.52
1	jB	149	SER	C-N	5.33	1.39	1.34
1	jV	27	VAL	CA-C	5.33	1.59	1.52
1	k0	126	VAL	CA-C	5.33	1.59	1.52
1	k3	219	GLN	CA-CB	5.33	1.61	1.53
1	kb	179	GLN	C-O	-5.33	1.18	1.24
1	kt	178	SER	CA-C	5.33	1.59	1.52
1	kz	198	CYS	CA-CB	5.33	1.61	1.53
1	kG	50	GLN	C-N	5.33	1.41	1.33
1	kI	223	GLY	C-N	5.33	1.40	1.33
1	kR	195	ASN	C-N	5.33	1.40	1.34
1	la	27	VAL	CA-C	-5.33	1.45	1.52
1	lb	18	ARG	C-N	5.33	1.41	1.33
1	lC	97	ARG	CD-NE	5.33	1.53	1.46
1	lJ	225	GLY	C-N	-5.33	1.25	1.33
1	2r	112	GLN	CA-C	5.33	1.59	1.52
1	2s	79	GLU	CA-CB	5.33	1.61	1.53
1	2w	7	GLN	CA-C	5.33	1.59	1.52
1	2Q	118	MET	CA-C	5.33	1.59	1.52
1	2S	222	GLY	C-N	5.33	1.41	1.33
1	2W	179	GLN	C-O	-5.33	1.17	1.24
1	32	215	MET	C-N	5.33	1.41	1.33
1	33	71	GLU	N-CA	-5.33	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	36	15	ILE	N-CA	5.33	1.52	1.46
1	3I	87	HIS	CA-C	5.33	1.60	1.53
1	43	112	GLN	C-O	-5.33	1.17	1.24
1	4b	125	PRO	N-CA	-5.33	1.40	1.47
1	4q	36	VAL	C-O	-5.33	1.17	1.24
1	4K	46	GLY	N-CA	5.33	1.53	1.45
1	4S	8	GLY	C-N	5.33	1.40	1.33
1	4T	180	GLU	CA-CB	5.33	1.62	1.53
1	51	195	ASN	CA-C	5.33	1.59	1.52
1	56	226	HIS	N-CA	-5.33	1.39	1.45
1	5a	187	GLU	N-CA	-5.33	1.39	1.46
1	5f	97	ARG	CA-C	-5.33	1.46	1.53
1	5p	142	VAL	N-CA	5.33	1.52	1.46
1	5w	134	ILE	N-CA	5.33	1.52	1.46
1	5E	112	GLN	CA-C	-5.33	1.45	1.52
1	5P	207	PRO	N-CA	-5.33	1.40	1.47
1	5Q	24	VAL	C-N	5.33	1.41	1.33
1	5U	97	ARG	CZ-NH2	-5.33	1.26	1.33
1	5Y	139	ASN	CA-C	5.33	1.59	1.52
1	6c	228	ALA	CA-C	5.33	1.59	1.52
1	6z	187	GLU	C-N	5.33	1.41	1.33
1	6T	146	SER	CA-C	5.33	1.58	1.53
1	7a	111	LEU	C-O	-5.33	1.17	1.24
1	7b	70	LYS	CA-C	-5.33	1.45	1.52
1	7F	107	THR	C-N	5.33	1.41	1.33
1	7H	79	GLU	CA-CB	5.33	1.61	1.53
1	7R	225	GLY	CA-C	-5.33	1.47	1.52
1	89	103	ASP	CA-CB	5.33	1.61	1.53
1	8u	155	GLN	CA-CB	5.33	1.62	1.53
1	8J	29	GLU	CA-C	-5.33	1.46	1.52
1	8L	23	TRP	NE1-CE2	-5.33	1.31	1.37
1	8M	186	THR	CA-C	-5.33	1.45	1.52
1	8N	21	ASN	CA-CB	5.33	1.61	1.53
1	98	51	ASP	C-N	5.33	1.41	1.33
1	98	96	MET	CA-C	-5.33	1.46	1.52
1	9u	53	ASN	CA-C	-5.33	1.45	1.52
1	9M	104	ILE	CA-C	5.33	1.60	1.52
1	Z	112	GLN	CA-C	5.33	1.59	1.52
1	a9	72	THR	C-N	5.33	1.40	1.33
1	aQ	25	LYS	CA-CB	5.33	1.61	1.53
1	aS	30	LYS	N-CA	-5.33	1.40	1.46
1	bR	161	PHE	CA-C	5.33	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	co	121	ASN	CA-C	-5.33	1.48	1.52
1	1e	40	PHE	CA-CB	5.33	1.61	1.53
1	cB	2	ILE	N-CA	-5.33	1.39	1.46
1	cT	100	ARG	CA-CB	5.33	1.61	1.53
1	d8	17	PRO	CA-C	-5.33	1.44	1.52
1	dz	140	LYS	N-CA	5.33	1.53	1.46
1	1o	73	ILE	C-N	5.33	1.40	1.33
1	eh	162	ARG	CD-NE	5.33	1.53	1.46
1	eq	156	GLY	N-CA	5.33	1.52	1.44
1	1t	44	SER	N-CA	5.33	1.53	1.46
1	eU	215	MET	CA-C	-5.33	1.45	1.52
1	f6	37	ILE	CA-CB	-5.33	1.47	1.54
1	fH	51	ASP	CA-C	5.33	1.59	1.52
1	1A	120	HIS	CG-CD2	5.33	1.41	1.35
1	fY	64	ALA	CA-C	5.33	1.59	1.52
1	g0	144	MET	CA-C	-5.33	1.46	1.52
1	g1	59	VAL	C-O	-5.33	1.18	1.24
1	1B	96	MET	CG-SD	5.33	1.94	1.80
1	E	4	GLN	CA-C	-5.33	1.46	1.52
1	O	80	TRP	N-CA	-5.33	1.40	1.46
1	Q	62	HIS	N-CA	-5.33	1.38	1.46
1	R	193	ASN	C-N	-5.33	1.26	1.33
1	S	120	HIS	ND1-CE1	5.33	1.37	1.32
1	U	198	CYS	C-N	5.33	1.41	1.33
1	7	231	LEU	CA-C	5.33	1.64	1.52
1	ge	186	THR	CA-C	-5.33	1.45	1.52
1	gC	86	VAL	C-O	-5.33	1.18	1.24
1	gL	150	ILE	C-N	5.33	1.41	1.33
1	1I	213	GLU	C-O	-5.33	1.18	1.24
1	hl	179	GLN	CA-CB	5.33	1.62	1.53
1	hy	120	HIS	CD2-NE2	5.33	1.43	1.37
1	hS	139	ASN	CA-C	5.33	1.59	1.52
1	1Q	216	THR	CA-C	5.33	1.60	1.52
1	iC	90	PRO	C-N	5.33	1.40	1.33
1	iV	203	LYS	CA-CB	-5.33	1.44	1.53
1	j8	76	GLU	CA-C	-5.33	1.46	1.52
1	jD	190	LEU	C-O	-5.33	1.17	1.24
1	jO	229	ARG	C-N	5.33	1.40	1.33
1	jS	154	ARG	CA-CB	5.33	1.59	1.52
1	k1	173	ARG	N-CA	-5.33	1.39	1.46
1	20	192	GLN	C-N	5.33	1.41	1.33
1	kb	228	ALA	C-N	5.33	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kx	119	THR	C-N	5.33	1.40	1.33
1	kE	120	HIS	CB-CG	5.33	1.57	1.50
1	kM	226	HIS	CB-CG	5.33	1.57	1.50
1	kU	146	SER	CA-CB	5.33	1.60	1.53
1	lF	3	VAL	N-CA	5.33	1.53	1.46
1	2a	125	PRO	C-N	5.33	1.40	1.33
1	2Q	47	ALA	C-O	-5.33	1.17	1.23
1	2T	12	HIS	CG-ND1	5.33	1.44	1.38
1	2U	211	LEU	CA-CB	5.33	1.62	1.53
1	3l	129	ILE	CA-C	-5.33	1.46	1.52
1	3P	68	MET	C-N	5.33	1.40	1.33
1	4t	9	GLN	CA-CB	5.33	1.60	1.53
1	4J	133	TRP	CA-CB	5.33	1.61	1.53
1	4O	13	GLN	CA-C	5.33	1.59	1.52
1	5h	61	GLY	CA-C	-5.33	1.46	1.52
1	5y	62	HIS	CG-ND1	-5.33	1.32	1.38
1	5U	93	PRO	C-N	-5.33	1.25	1.33
1	5U	174	ALA	C-O	5.33	1.31	1.24
1	5W	179	GLN	CA-CB	5.33	1.62	1.53
1	5X	220	GLY	N-CA	5.33	1.52	1.45
1	5Z	59	VAL	CA-C	5.33	1.59	1.52
1	62	88	ALA	N-CA	-5.33	1.39	1.46
1	6g	184	TRP	N-CA	5.33	1.52	1.46
1	6p	26	VAL	CA-CB	5.33	1.60	1.54
1	6D	123	PRO	CA-C	5.33	1.58	1.52
1	70	36	VAL	N-CA	-5.33	1.39	1.46
1	79	124	ILE	CA-CB	5.33	1.59	1.53
1	82	55	MET	CA-CB	5.33	1.62	1.53
1	8t	3	VAL	C-O	5.33	1.30	1.24
1	8J	78	ALA	N-CA	-5.33	1.40	1.46
1	91	201	ILE	N-CA	5.33	1.52	1.46
1	9n	31	ALA	CA-CB	-5.33	1.45	1.53
1	9r	33	SER	N-CA	-5.33	1.40	1.46
1	9w	39	MET	N-CA	-5.33	1.39	1.46
1	9D	84	HIS	CD2-NE2	-5.33	1.31	1.37
1	9T	210	THR	CA-C	-5.33	1.46	1.52
1	a1	163	ASP	CA-C	-5.33	1.46	1.52
1	ai	10	MET	N-CA	-5.33	1.38	1.45
1	aq	4	GLN	N-CA	-5.33	1.39	1.46
1	as	143	ARG	C-N	5.33	1.41	1.33
1	ay	40	PHE	CA-C	5.33	1.59	1.52
1	aD	187	GLU	CA-CB	5.33	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aW	100	ARG	CA-CB	5.33	1.60	1.53
1	16	190	LEU	C-N	5.33	1.39	1.34
1	by	197	ASP	C-N	5.33	1.41	1.33
1	bB	7	GLN	C-N	5.33	1.39	1.33
1	1a	47	ALA	CA-CB	5.33	1.62	1.53
1	bR	97	ARG	CD-NE	5.33	1.53	1.46
1	cj	13	GLN	CA-C	-5.33	1.46	1.52
1	cG	167	ARG	NE-CZ	-5.33	1.27	1.33
1	1j	164	TYR	CG-CD2	5.33	1.50	1.39
1	do	13	GLN	N-CA	-5.33	1.39	1.46
1	dC	205	LEU	C-N	5.33	1.41	1.33
1	eG	16	SER	CA-CB	5.33	1.61	1.53
1	fb	97	ARG	NE-CZ	5.33	1.39	1.33
1	fG	164	TYR	N-CA	5.33	1.52	1.46
1	d	213	GLU	CA-C	-5.33	1.46	1.52
1	u	87	HIS	N-CA	5.33	1.52	1.45
1	A	111	LEU	CA-C	5.33	1.59	1.52
1	4	83	LEU	N-CA	5.33	1.52	1.46
1	O	203	LYS	N-CA	-5.33	1.40	1.46
1	gJ	65	ALA	C-O	-5.33	1.17	1.24
1	gV	150	ILE	CA-C	-5.33	1.45	1.52
1	gX	193	ASN	CA-CB	5.33	1.62	1.53
1	h8	201	ILE	CA-C	5.33	1.59	1.52
1	hI	221	VAL	CA-CB	-5.33	1.47	1.53
1	hO	179	GLN	C-N	5.33	1.40	1.33
1	i3	208	ALA	C-N	5.33	1.40	1.33
1	i7	167	ARG	N-CA	5.33	1.52	1.46
1	ik	132	ARG	N-CA	-5.33	1.40	1.46
1	il	30	LYS	C-N	5.33	1.39	1.33
1	iG	129	ILE	CA-C	5.33	1.59	1.52
1	iJ	215	MET	CA-CB	5.33	1.62	1.53
1	iS	23	TRP	CA-CB	5.33	1.61	1.53
1	j6	113	GLU	N-CA	-5.33	1.39	1.46
1	jc	151	LEU	CA-CB	5.33	1.63	1.53
1	1V	112	GLN	CA-CB	5.33	1.61	1.53
1	jo	116	GLY	CA-C	-5.33	1.45	1.51
1	jy	26	VAL	CA-CB	5.33	1.60	1.54
1	jy	173	ARG	CZ-NH1	-5.33	1.25	1.32
1	jF	218	CYS	CA-CB	5.33	1.61	1.53
1	jQ	8	GLY	N-CA	5.33	1.51	1.45
1	jT	86	VAL	CA-C	5.33	1.61	1.53
1	jT	188	THR	C-N	5.33	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kg	100	ARG	N-CA	5.33	1.52	1.45
1	kh	108	THR	N-CA	5.33	1.52	1.46
1	21	12	HIS	CA-C	5.33	1.59	1.52
1	kk	101	GLY	N-CA	5.33	1.52	1.45
1	kl	15	ILE	C-O	-5.33	1.18	1.24
1	kp	190	LEU	CA-C	-5.33	1.45	1.52
1	kq	42	ALA	C-N	5.33	1.41	1.33
1	kE	111	LEU	C-O	5.33	1.30	1.24
1	l1	206	GLY	CA-C	5.33	1.59	1.51
1	l2	143	ARG	N-CA	-5.33	1.40	1.46
1	ln	76	GLU	CA-CB	5.33	1.61	1.53
1	lO	124	ILE	N-CA	-5.33	1.42	1.46
1	2i	132	ARG	CD-NE	5.33	1.53	1.46
1	2j	169	TYR	CA-C	-5.33	1.45	1.52
1	2o	9	GLN	N-CA	5.33	1.53	1.46
1	2v	166	ASP	CA-C	-5.33	1.46	1.52
1	2G	55	MET	C-N	5.33	1.41	1.33
1	2I	34	PRO	CA-CB	-5.33	1.46	1.53
1	2M	183	ASN	C-O	5.33	1.30	1.24
1	36	196	PRO	CA-CB	5.33	1.61	1.53
1	38	42	ALA	C-O	-5.33	1.17	1.24
1	3o	26	VAL	CA-C	5.33	1.59	1.52
1	3p	79	GLU	C-O	-5.33	1.17	1.24
1	3Q	196	PRO	N-CA	-5.33	1.40	1.47
1	4e	134	ILE	N-CA	5.33	1.52	1.46
1	4t	139	ASN	CA-C	-5.33	1.46	1.52
1	4N	15	ILE	CA-CB	-5.33	1.48	1.54
1	5n	62	HIS	ND1-CE1	-5.33	1.27	1.32
1	5P	229	ARG	CA-C	-5.33	1.46	1.53
1	5R	68	MET	C-N	5.33	1.40	1.33
1	5S	124	ILE	CA-C	5.33	1.57	1.53
1	5T	84	HIS	CE1-NE2	5.33	1.37	1.32
1	5W	226	HIS	CG-CD2	-5.33	1.29	1.35
1	63	102	SER	CA-C	5.33	1.59	1.52
1	68	202	LEU	C-O	-5.33	1.18	1.24
1	6F	86	VAL	CA-C	5.33	1.59	1.52
1	6F	198	CYS	CA-CB	5.33	1.61	1.53
1	6I	201	ILE	C-O	-5.33	1.18	1.24
1	6T	40	PHE	CA-C	-5.33	1.45	1.52
1	72	80	TRP	CA-CB	5.33	1.62	1.53
1	7a	143	ARG	N-CA	5.33	1.52	1.46
1	7d	192	GLN	N-CA	-5.33	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7h	218	CYS	C-O	-5.33	1.17	1.24
1	7F	183	ASN	N-CA	-5.33	1.39	1.46
1	88	180	GLU	CA-C	-5.33	1.46	1.52
1	8b	12	HIS	C-N	5.33	1.41	1.33
1	8e	126	VAL	CA-C	-5.33	1.46	1.52
1	8h	154	ARG	CA-C	-5.33	1.46	1.52
1	8x	2	ILE	N-CA	-5.33	1.40	1.46
1	8C	184	TRP	CA-CB	5.33	1.61	1.53
1	8R	221	VAL	C-N	5.33	1.41	1.33
1	8W	69	LEU	CA-CB	5.33	1.61	1.53
1	9r	160	PRO	CA-C	-5.33	1.46	1.52
1	9s	134	ILE	N-CA	-5.33	1.40	1.46
1	9B	84	HIS	CA-CB	5.33	1.60	1.53
1	9F	23	TRP	C-N	5.33	1.40	1.33
1	9H	214	MET	CA-C	-5.33	1.46	1.52
1	9K	178	SER	N-CA	-5.33	1.39	1.46
1	9O	143	ARG	CA-C	-5.33	1.46	1.52
1	a0	114	GLN	CA-CB	5.33	1.61	1.53
1	aj	78	ALA	CA-C	5.33	1.59	1.52
1	ar	106	GLY	C-N	-5.33	1.26	1.33
1	av	217	ALA	N-CA	-5.33	1.39	1.45
1	ax	86	VAL	N-CA	-5.33	1.40	1.46
1	aD	190	LEU	CA-C	5.33	1.59	1.52
1	aM	24	VAL	CA-C	-5.33	1.46	1.52
1	aP	225	GLY	C-N	5.33	1.40	1.33
1	aV	186	THR	CA-C	-5.33	1.46	1.52
1	aZ	44	SER	CA-C	-5.33	1.45	1.52
1	bl	75	GLU	N-CA	5.33	1.52	1.46
1	bI	170	LYS	C-O	-5.33	1.17	1.24
1	bK	211	LEU	CB-CG	5.33	1.64	1.53
1	bM	148	THR	C-N	5.33	1.40	1.33
1	c4	84	HIS	C-O	-5.33	1.19	1.24
1	cn	155	GLN	CA-CB	5.33	1.61	1.53
1	cF	208	ALA	CA-CB	5.33	1.62	1.53
1	cL	195	ASN	CA-C	5.33	1.59	1.52
1	cY	213	GLU	CA-CB	5.33	1.61	1.53
1	du	120	HIS	CB-CG	-5.33	1.42	1.50
1	dD	122	PRO	CA-CB	5.33	1.63	1.53
1	ec	66	MET	N-CA	-5.33	1.39	1.46
1	ek	74	ASN	N-CA	-5.33	1.40	1.46
1	eq	171	THR	CA-CB	5.33	1.62	1.53
1	ev	52	LEU	C-O	-5.33	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1s	94	GLY	CA-C	-5.33	1.44	1.51
1	eO	91	ILE	CA-C	-5.33	1.46	1.52
1	fw	205	LEU	CA-C	5.33	1.59	1.52
1	fx	18	ARG	CD-NE	5.33	1.53	1.46
1	fx	62	HIS	ND1-CE1	5.33	1.37	1.32
1	fz	37	ILE	CA-CB	5.33	1.61	1.54
1	fz	85	PRO	CA-C	-5.33	1.44	1.52
1	fB	206	GLY	C-N	5.33	1.40	1.34
1	fN	62	HIS	CD2-NE2	5.33	1.43	1.37
1	1z	62	HIS	CB-CG	5.33	1.57	1.50
1	fR	176	GLN	CA-C	-5.33	1.45	1.52
1	fS	171	THR	CA-C	5.33	1.59	1.52
1	d	183	ASN	C-N	5.33	1.41	1.33
1	e	160	PRO	N-CA	5.33	1.53	1.47
1	k	84	HIS	CE1-NE2	5.33	1.37	1.32
1	z	34	PRO	N-CD	-5.33	1.40	1.47
1	P	188	THR	CA-C	-5.33	1.45	1.52
1	gL	88	ALA	C-O	5.33	1.30	1.23
1	gY	226	HIS	ND1-CE1	5.33	1.37	1.32
1	h3	2	ILE	CA-C	5.33	1.59	1.52
1	1H	74	ASN	C-N	5.33	1.41	1.33
1	ha	66	MET	CA-C	5.33	1.59	1.52
1	1M	113	GLU	CA-CB	5.33	1.61	1.53
1	il	209	ALA	CA-C	5.33	1.59	1.52
1	iS	135	ILE	CA-CB	5.33	1.60	1.54
1	iX	99	PRO	CA-C	5.33	1.58	1.52
1	jr	149	SER	C-N	5.33	1.39	1.34
1	jA	76	GLU	C-N	5.33	1.41	1.33
1	jH	118	MET	CA-C	5.33	1.59	1.52
1	jL	81	ASP	C-N	5.33	1.41	1.33
1	k8	74	ASN	C-N	5.33	1.40	1.33
1	kv	86	VAL	CA-C	-5.33	1.46	1.52
1	26	132	ARG	CD-NE	5.33	1.53	1.46
1	ll	120	HIS	CA-CB	5.33	1.62	1.53
1	29	197	ASP	CA-CB	5.33	1.61	1.53
1	2b	9	GLN	C-N	5.33	1.41	1.33
1	2I	48	THR	CA-C	5.33	1.60	1.53
1	33	133	TRP	NE1-CE2	-5.33	1.31	1.37
1	38	38	PRO	N-CD	5.33	1.55	1.47
1	3l	77	ALA	CA-C	5.33	1.59	1.52
1	3q	202	LEU	CA-CB	5.33	1.61	1.53
1	3K	220	GLY	CA-C	-5.33	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3P	113	GLU	C-O	-5.33	1.18	1.24
1	4u	139	ASN	C-N	5.33	1.40	1.33
1	4J	162	ARG	CA-C	5.33	1.59	1.52
1	4S	72	THR	C-N	5.33	1.40	1.34
1	56	165	VAL	CA-C	-5.33	1.46	1.52
1	5q	58	THR	N-CA	5.33	1.52	1.45
1	5E	20	LEU	N-CA	5.33	1.52	1.46
1	5E	226	HIS	ND1-CE1	5.33	1.37	1.32
1	62	140	LYS	CA-CB	5.33	1.61	1.53
1	6l	157	PRO	C-N	5.33	1.40	1.33
1	6F	53	ASN	CA-CB	5.33	1.62	1.53
1	6I	48	THR	CB-OG1	-5.33	1.35	1.43
1	72	37	ILE	CA-CB	-5.33	1.50	1.53
1	7m	87	HIS	CD2-NE2	5.33	1.43	1.37
1	7o	11	VAL	N-CA	-5.33	1.40	1.46
1	8e	116	GLY	C-N	5.33	1.41	1.33
1	8T	48	THR	N-CA	5.33	1.52	1.45
1	8U	120	HIS	CG-ND1	-5.33	1.32	1.38
1	9x	63	GLN	C-N	5.33	1.41	1.33
1	9y	54	THR	C-N	5.33	1.41	1.33
1	9N	35	GLU	C-N	5.33	1.40	1.33
1	a1	111	LEU	N-CA	-5.33	1.39	1.46
1	aj	199	LYS	CA-C	5.33	1.59	1.52
1	an	82	ARG	CA-C	5.33	1.59	1.52
1	at	133	TRP	CA-C	5.33	1.59	1.52
1	aG	123	PRO	CA-C	5.33	1.59	1.52
1	aP	43	LEU	CA-C	5.33	1.59	1.52
1	18	82	ARG	CZ-NH2	5.33	1.40	1.33
1	19	162	ARG	CA-CB	5.33	1.61	1.53
1	bE	173	ARG	CA-CB	-5.33	1.45	1.53
1	bM	62	HIS	CE1-NE2	5.33	1.37	1.32
1	bQ	145	TYR	CA-CB	5.33	1.61	1.53
1	bT	69	LEU	N-CA	-5.33	1.39	1.46
1	c7	200	THR	CA-C	5.33	1.59	1.52
1	co	97	ARG	NE-CZ	-5.33	1.27	1.33
1	cr	163	ASP	CA-C	5.33	1.60	1.52
1	cw	201	ILE	CA-C	5.33	1.59	1.52
1	cG	93	PRO	C-O	-5.33	1.17	1.23
1	cU	79	GLU	CA-CB	5.33	1.62	1.53
1	de	203	LYS	CA-CB	5.33	1.62	1.53
1	eR	190	LEU	N-CA	-5.33	1.40	1.46
1	eV	208	ALA	N-CA	-5.33	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eW	94	GLY	C-N	5.33	1.40	1.33
1	eX	180	GLU	C-N	5.33	1.40	1.33
1	f0	117	TRP	NE1-CE2	-5.33	1.31	1.37
1	fZ	201	ILE	N-CA	5.33	1.52	1.46
1	e	78	ALA	C-O	5.33	1.30	1.24
1	v	142	VAL	CA-C	-5.33	1.46	1.52
1	F	139	ASN	CA-CB	5.33	1.61	1.53
1	g8	12	HIS	ND1-CE1	5.33	1.37	1.32
1	gg	87	HIS	CB-CG	-5.33	1.42	1.50
1	gr	75	GLU	C-N	5.33	1.41	1.33
1	gv	206	GLY	N-CA	5.33	1.52	1.44
1	gw	196	PRO	C-N	5.33	1.41	1.33
1	hg	167	ARG	CZ-NH1	-5.33	1.25	1.32
1	hp	119	THR	CA-C	-5.33	1.45	1.52
1	hu	7	GLN	CA-CB	5.33	1.62	1.53
1	hy	180	GLU	CA-C	5.33	1.59	1.52
1	hB	53	ASN	C-N	-5.33	1.26	1.33
1	hH	203	LYS	CA-CB	5.33	1.62	1.53
1	i5	118	MET	N-CA	-5.33	1.39	1.46
1	iA	226	HIS	CG-CD2	-5.33	1.29	1.35
1	iP	135	ILE	N-CA	5.33	1.52	1.46
1	iT	182	LYS	CA-C	5.33	1.59	1.52
1	j0	75	GLU	N-CA	5.33	1.52	1.46
1	jl	13	GLN	N-CA	-5.33	1.38	1.46
1	jv	114	GLN	CA-CB	5.33	1.61	1.53
1	jI	33	SER	CA-CB	5.33	1.60	1.53
1	jW	164	TYR	N-CA	5.33	1.53	1.46
1	jZ	23	TRP	N-CA	-5.33	1.40	1.46
1	k6	160	PRO	CA-C	-5.33	1.46	1.52
1	kf	172	LEU	N-CA	5.33	1.52	1.46
1	kr	33	SER	N-CA	5.33	1.50	1.46
1	kt	172	LEU	CA-C	5.33	1.59	1.52
1	la	92	GLU	CA-C	5.33	1.58	1.53
1	la	179	GLN	C-O	-5.33	1.17	1.24
1	le	225	GLY	N-CA	5.33	1.53	1.45
1	27	64	ALA	CA-CB	5.33	1.62	1.53
1	lm	44	SER	CA-CB	5.33	1.60	1.53
1	lq	54	THR	C-N	5.33	1.41	1.33
1	lA	136	LEU	C-O	-5.33	1.17	1.24
1	lG	2	ILE	C-O	-5.33	1.18	1.24
1	lK	85	PRO	N-CA	5.33	1.53	1.47
1	2y	86	VAL	C-N	5.33	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2L	208	ALA	C-N	5.33	1.40	1.33
1	2M	159	GLU	CA-C	5.33	1.58	1.52
1	2R	104	ILE	CA-C	5.33	1.60	1.52
1	31	52	LEU	CA-CB	5.33	1.62	1.53
1	37	194	ALA	CA-C	-5.33	1.45	1.52
1	3a	202	LEU	CA-CB	5.33	1.61	1.53
1	3L	2	ILE	N-CA	-5.33	1.39	1.46
1	46	116	GLY	C-N	5.33	1.40	1.33
1	4v	227	LYS	C-N	5.33	1.40	1.33
1	5c	172	LEU	CA-CB	5.33	1.62	1.53
1	5k	145	TYR	CA-C	5.33	1.59	1.52
1	5n	76	GLU	CA-CB	5.33	1.61	1.53
1	5T	50	GLN	N-CA	-5.33	1.39	1.46
1	65	110	THR	N-CA	-5.33	1.38	1.45
1	6o	184	TRP	C-N	5.33	1.41	1.33
1	6o	222	GLY	CA-C	-5.33	1.44	1.51
1	6K	159	GLU	N-CA	-5.33	1.38	1.46
1	70	120	HIS	CE1-NE2	-5.33	1.27	1.32
1	7a	213	GLU	CG-CD	5.33	1.65	1.52
1	7g	2	ILE	N-CA	5.33	1.52	1.46
1	7l	83	LEU	N-CA	-5.33	1.39	1.46
1	7r	115	ILE	N-CA	5.33	1.52	1.46
1	7M	209	ALA	CA-C	5.33	1.59	1.52
1	8c	162	ARG	NE-CZ	-5.33	1.27	1.33
1	8o	40	PHE	N-CA	-5.33	1.40	1.46
1	8E	74	ASN	CA-C	5.33	1.59	1.52
1	8S	89	GLY	C-O	-5.33	1.16	1.24
1	8X	37	ILE	CA-CB	5.33	1.57	1.54
1	9b	136	LEU	CA-CB	5.33	1.61	1.53
1	9b	205	LEU	N-CA	-5.33	1.38	1.45
1	9x	178	SER	CA-CB	5.33	1.61	1.53
1	9z	128	GLU	CA-CB	5.33	1.61	1.53
1	9H	57	ASN	CA-C	5.33	1.59	1.52
1	9V	47	ALA	CA-CB	5.33	1.62	1.53
1	9Z	65	ALA	CA-C	5.33	1.59	1.52
1	a0	77	ALA	CA-CB	5.33	1.61	1.53
1	a2	63	GLN	CA-CB	5.33	1.61	1.53
1	a5	219	GLN	C-O	-5.33	1.17	1.23
1	ah	154	ARG	CD-NE	5.33	1.53	1.46
1	aE	87	HIS	CD2-NE2	5.33	1.43	1.37
1	aO	152	ASP	C-N	5.33	1.38	1.33
1	b1	59	VAL	CA-C	5.33	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	16	127	GLY	CA-C	5.33	1.58	1.51
1	bk	73	ILE	N-CA	5.33	1.52	1.46
1	19	93	PRO	N-CD	-5.33	1.40	1.47
1	bG	74	ASN	CA-CB	5.33	1.61	1.53
1	bI	128	GLU	C-N	5.33	1.40	1.33
1	bQ	120	HIS	CA-C	5.33	1.60	1.53
1	bT	93	PRO	N-CD	5.33	1.55	1.47
1	bU	27	VAL	CA-CB	-5.33	1.47	1.54
1	1c	46	GLY	N-CA	-5.33	1.38	1.45
1	c6	26	VAL	C-O	5.33	1.30	1.24
1	1d	120	HIS	C-N	5.33	1.39	1.33
1	cx	127	GLY	CA-C	-5.33	1.46	1.52
1	cE	41	SER	CA-CB	5.33	1.61	1.53
1	cJ	59	VAL	C-N	5.33	1.41	1.33
1	cV	80	TRP	NE1-CE2	-5.33	1.31	1.37
1	cY	3	VAL	C-N	5.33	1.41	1.33
1	dr	39	MET	C-N	5.33	1.41	1.33
1	dJ	119	THR	N-CA	5.33	1.53	1.46
1	e1	96	MET	CA-C	5.33	1.59	1.52
1	ea	229	ARG	CD-NE	5.33	1.53	1.46
1	eh	31	ALA	CA-C	5.33	1.59	1.52
1	eh	82	ARG	CD-NE	5.33	1.53	1.46
1	el	48	THR	CA-C	5.33	1.59	1.52
1	el	115	ILE	C-N	5.33	1.40	1.33
1	eE	103	ASP	N-CA	-5.33	1.39	1.46
1	f6	123	PRO	N-CA	5.33	1.53	1.47
1	fc	171	THR	CA-C	5.33	1.59	1.52
1	fe	80	TRP	C-N	5.33	1.41	1.33
1	fq	24	VAL	CA-C	-5.33	1.46	1.52
1	fW	62	HIS	CB-CG	-5.33	1.42	1.50
1	1	61	GLY	C-O	-5.33	1.17	1.23
1	o	87	HIS	CA-C	-5.33	1.45	1.52
1	3	68	MET	CA-C	5.33	1.59	1.52
1	K	186	THR	CA-C	-5.33	1.45	1.52
1	S	16	SER	N-CA	5.33	1.52	1.45
1	9	175	GLU	N-CA	-5.33	1.39	1.46
1	g9	30	LYS	N-CA	5.32	1.53	1.46
1	gf	56	LEU	CA-C	5.32	1.59	1.52
1	gk	117	TRP	CA-C	-5.32	1.46	1.52
1	gH	18	ARG	CD-NE	5.32	1.53	1.46
1	gH	187	GLU	CA-C	5.32	1.59	1.52
1	gJ	88	ALA	C-N	5.32	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	h0	229	ARG	NE-CZ	-5.32	1.27	1.33
1	h1	133	TRP	C-O	5.32	1.30	1.24
1	h2	18	ARG	N-CA	-5.32	1.39	1.46
1	h7	169	TYR	CA-CB	5.32	1.61	1.53
1	hf	73	ILE	CA-C	-5.32	1.46	1.52
1	hh	159	GLU	CA-C	5.32	1.59	1.52
1	hw	73	ILE	N-CA	5.32	1.52	1.46
1	hC	19	THR	CA-CB	5.32	1.61	1.53
1	hF	179	GLN	CA-C	5.32	1.59	1.52
1	hP	177	ALA	N-CA	-5.32	1.39	1.45
1	i2	136	LEU	CA-C	-5.32	1.45	1.52
1	io	173	ARG	CD-NE	5.32	1.53	1.46
1	iu	70	LYS	CA-C	5.32	1.59	1.52
1	iB	125	PRO	CA-CB	5.32	1.58	1.53
1	iH	55	MET	CA-C	5.32	1.59	1.52
1	1S	112	GLN	C-N	5.32	1.41	1.33
1	j0	57	ASN	N-CA	5.32	1.53	1.46
1	j6	42	ALA	CA-CB	5.32	1.61	1.53
1	jy	167	ARG	NE-CZ	5.32	1.39	1.33
1	jA	135	ILE	C-N	5.32	1.40	1.33
1	jE	114	GLN	CA-C	-5.32	1.45	1.52
1	jK	121	ASN	CA-C	5.32	1.58	1.52
1	jZ	37	ILE	C-N	5.32	1.40	1.34
1	kn	201	ILE	CA-C	5.32	1.59	1.52
1	kr	218	CYS	C-N	5.32	1.40	1.33
1	kF	82	ARG	CD-NE	5.32	1.53	1.46
1	kH	161	PHE	CA-C	5.32	1.59	1.52
1	kM	28	GLU	CA-C	5.32	1.59	1.52
1	kQ	214	MET	CA-CB	5.32	1.61	1.53
1	la	53	ASN	CA-C	-5.32	1.45	1.52
1	la	229	ARG	CA-CB	5.32	1.62	1.53
1	ld	7	GLN	CA-C	5.32	1.60	1.52
1	ld	229	ARG	CA-CB	5.32	1.60	1.53
1	ls	76	GLU	C-N	5.32	1.41	1.34
1	lu	195	ASN	C-N	-5.32	1.27	1.33
1	36	14	ALA	CA-CB	5.32	1.62	1.53
1	3v	152	ASP	C-N	5.32	1.40	1.33
1	3v	159	GLU	CA-CB	5.32	1.62	1.53
1	3x	154	ARG	CZ-NH2	-5.32	1.26	1.33
1	3E	1	PRO	N-CD	5.32	1.55	1.47
1	3P	197	ASP	C-O	-5.32	1.17	1.24
1	3X	187	GLU	CA-C	5.32	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4j	24	VAL	N-CA	5.32	1.52	1.46
1	4q	100	ARG	N-CA	5.32	1.52	1.45
1	5B	174	ALA	C-N	5.32	1.40	1.33
1	5F	16	SER	CA-C	5.32	1.59	1.53
1	5Z	189	LEU	C-N	5.32	1.40	1.33
1	66	229	ARG	CA-CB	-5.32	1.44	1.53
1	6M	6	LEU	C-N	-5.32	1.25	1.33
1	7d	218	CYS	C-N	5.32	1.41	1.33
1	7g	91	ILE	CA-CB	-5.32	1.47	1.54
1	7o	126	VAL	C-O	-5.32	1.18	1.24
1	84	81	ASP	CA-C	-5.32	1.45	1.52
1	85	196	PRO	CA-C	5.32	1.60	1.52
1	8v	43	LEU	CA-C	5.32	1.59	1.52
1	8y	79	GLU	CA-C	-5.32	1.46	1.52
1	8z	171	THR	CA-C	-5.32	1.45	1.52
1	8E	159	GLU	C-N	5.32	1.38	1.33
1	8R	111	LEU	N-CA	-5.32	1.39	1.46
1	8R	180	GLU	C-N	5.32	1.40	1.33
1	9a	204	ALA	C-N	5.32	1.41	1.33
1	9c	81	ASP	CA-CB	5.32	1.62	1.53
1	9g	120	HIS	ND1-CE1	5.32	1.37	1.32
1	9I	104	ILE	N-CA	5.32	1.52	1.46
1	9S	177	ALA	C-N	5.32	1.40	1.33
1	9S	181	VAL	N-CA	5.32	1.52	1.46
1	aO	147	PRO	N-CA	-5.32	1.40	1.47
1	aX	7	GLN	CA-C	5.32	1.59	1.52
1	b2	7	GLN	C-O	-5.32	1.17	1.24
1	1a	223	GLY	CA-C	5.32	1.59	1.51
1	bW	117	TRP	C-O	5.32	1.30	1.24
1	c0	33	SER	CA-C	-5.32	1.45	1.52
1	c2	16	SER	CA-CB	5.32	1.61	1.52
1	cl	204	ALA	C-N	5.32	1.41	1.33
1	cK	193	ASN	C-N	5.32	1.40	1.33
1	cM	20	LEU	CA-C	5.32	1.59	1.52
1	d2	125	PRO	N-CD	-5.32	1.40	1.47
1	db	84	HIS	CA-C	5.32	1.58	1.52
1	dj	89	GLY	N-CA	5.32	1.52	1.44
1	dG	181	VAL	CA-C	-5.32	1.46	1.52
1	dQ	119	THR	C-N	5.32	1.40	1.33
1	e3	123	PRO	C-O	-5.32	1.17	1.23
1	ep	191	VAL	CA-C	-5.32	1.46	1.52
1	f3	182	LYS	CA-CB	5.32	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1v	51	ASP	CA-CB	5.32	1.61	1.53
1	fI	172	LEU	CA-CB	5.32	1.62	1.53
1	fN	112	GLN	CA-CB	5.32	1.61	1.53
1	fS	202	LEU	N-CA	5.32	1.52	1.46
1	fU	34	PRO	N-CA	5.32	1.54	1.47
1	fW	31	ALA	C-O	-5.32	1.17	1.24
1	fY	96	MET	CA-CB	5.32	1.62	1.53
1	g3	140	LYS	CA-CB	5.32	1.61	1.53
1	d	195	ASN	CA-C	5.32	1.59	1.53
1	f	41	SER	C-N	5.32	1.41	1.33
1	2	137	GLY	C-N	5.32	1.41	1.33
1	v	179	GLN	CA-CB	5.32	1.61	1.53
1	y	152	ASP	N-CA	5.32	1.52	1.46
1	B	87	HIS	C-N	5.32	1.40	1.33
1	4	120	HIS	CB-CG	5.32	1.57	1.50
1	T	135	ILE	CB-CG1	5.32	1.64	1.53
1	ga	83	LEU	CA-CB	5.32	1.61	1.53
1	ge	44	SER	CA-C	5.32	1.60	1.52
1	gh	178	SER	CA-CB	5.32	1.61	1.53
1	gl	84	HIS	CG-CD2	5.32	1.41	1.35
1	gw	181	VAL	CA-CB	-5.32	1.48	1.54
1	gD	23	TRP	NE1-CE2	-5.32	1.31	1.37
1	1F	67	GLN	CA-CB	5.32	1.61	1.53
1	ho	67	GLN	CA-CB	5.32	1.61	1.53
1	hT	153	ILE	CA-CB	5.32	1.60	1.54
1	hV	87	HIS	CG-CD2	5.32	1.41	1.35
1	jg	148	THR	CA-C	-5.32	1.46	1.52
1	jm	79	GLU	CA-CB	5.32	1.61	1.53
1	1W	219	GLN	CA-CB	5.32	1.61	1.53
1	jH	118	MET	N-CA	-5.32	1.39	1.46
1	22	198	CYS	C-N	5.32	1.41	1.33
1	kR	127	GLY	C-N	5.32	1.41	1.33
1	ll	207	PRO	CA-CB	5.32	1.61	1.53
1	lz	48	THR	CA-C	5.32	1.59	1.53
1	2s	131	LYS	CA-CB	5.32	1.61	1.53
1	2u	226	HIS	CG-CD2	5.32	1.41	1.35
1	2J	56	LEU	CA-C	5.32	1.59	1.52
1	33	18	ARG	CZ-NH2	-5.32	1.26	1.33
1	3g	28	GLU	CA-C	-5.32	1.46	1.52
1	3g	171	THR	N-CA	5.32	1.52	1.46
1	3i	67	GLN	N-CA	-5.32	1.40	1.46
1	3k	192	GLN	CA-CB	5.32	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3s	226	HIS	CA-C	5.32	1.59	1.52
1	3x	100	ARG	CD-NE	5.32	1.53	1.46
1	3A	84	HIS	CA-CB	5.32	1.60	1.53
1	3B	54	THR	CA-CB	5.32	1.61	1.53
1	4K	117	TRP	CA-C	5.32	1.59	1.52
1	4Q	119	THR	CA-CB	5.32	1.62	1.53
1	53	226	HIS	CB-CG	-5.32	1.42	1.50
1	5a	84	HIS	CD2-NE2	5.32	1.43	1.37
1	5x	98	GLU	CA-CB	5.32	1.61	1.53
1	5y	141	ILE	N-CA	-5.32	1.40	1.46
1	63	105	ALA	C-N	5.32	1.40	1.33
1	6x	205	LEU	CA-CB	5.32	1.61	1.53
1	6R	228	ALA	CA-C	5.32	1.59	1.52
1	7d	76	GLU	CA-CB	5.32	1.61	1.53
1	8a	26	VAL	N-CA	5.32	1.52	1.46
1	8K	120	HIS	CA-C	-5.32	1.45	1.53
1	8L	187	GLU	CA-CB	-5.32	1.45	1.53
1	9g	55	MET	N-CA	5.32	1.52	1.46
1	9u	225	GLY	CA-C	-5.32	1.44	1.51
1	a2	141	ILE	N-CA	5.32	1.52	1.46
1	11	160	PRO	CA-CB	5.32	1.60	1.53
1	ak	185	MET	CA-C	5.32	1.59	1.52
1	at	131	LYS	CA-CB	5.32	1.62	1.53
1	12	158	LYS	CA-C	-5.32	1.45	1.52
1	aD	4	GLN	N-CA	-5.32	1.38	1.45
1	aT	34	PRO	C-O	-5.32	1.18	1.23
1	be	195	ASN	C-N	5.32	1.42	1.33
1	bk	172	LEU	CA-C	-5.32	1.45	1.52
1	bs	78	ALA	C-N	5.32	1.41	1.33
1	1a	67	GLN	N-CA	-5.32	1.40	1.46
1	bT	6	LEU	C-O	-5.32	1.17	1.23
1	bY	12	HIS	CE1-NE2	5.32	1.37	1.32
1	c6	47	ALA	CA-C	5.32	1.60	1.52
1	cz	226	HIS	ND1-CE1	5.32	1.37	1.32
1	cR	136	LEU	CA-C	5.32	1.59	1.52
1	dG	175	GLU	C-N	5.32	1.41	1.33
1	eo	114	GLN	C-N	5.32	1.40	1.33
1	ez	40	PHE	CA-CB	5.32	1.61	1.53
1	eV	68	MET	CA-CB	5.32	1.61	1.53
1	fr	27	VAL	C-O	-5.32	1.17	1.24
1	g5	218	CYS	CA-CB	5.32	1.61	1.53
1	H	207	PRO	CA-C	5.32	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gs	62	HIS	CE1-NE2	5.32	1.37	1.32
1	gG	50	GLN	C-N	5.32	1.41	1.33
1	gH	230	VAL	CA-C	5.32	1.58	1.52
1	gP	222	GLY	CA-C	-5.32	1.46	1.52
1	hg	97	ARG	CD-NE	5.32	1.53	1.46
1	hj	103	ASP	C-N	5.32	1.40	1.33
1	hP	38	PRO	C-N	5.32	1.41	1.33
1	i1	38	PRO	CA-C	5.32	1.59	1.52
1	i3	128	GLU	C-N	5.32	1.40	1.33
1	i7	139	ASN	CA-CB	5.32	1.61	1.53
1	ia	79	GLU	CA-C	5.32	1.60	1.52
1	ih	52	LEU	N-CA	5.32	1.52	1.46
1	ix	183	ASN	N-CA	-5.32	1.40	1.46
1	iA	122	PRO	N-CD	-5.32	1.40	1.47
1	iU	150	ILE	C-N	-5.32	1.25	1.33
1	iX	170	LYS	C-N	5.32	1.40	1.33
1	j0	86	VAL	C-N	5.32	1.41	1.33
1	j0	163	ASP	CA-C	5.32	1.59	1.52
1	1T	160	PRO	CA-C	-5.32	1.45	1.52
1	j3	71	GLU	CA-C	5.32	1.59	1.52
1	jm	89	GLY	N-CA	5.32	1.51	1.44
1	js	227	LYS	N-CA	-5.32	1.39	1.46
1	jD	109	SER	N-CA	5.32	1.52	1.46
1	jN	100	ARG	N-CA	5.32	1.52	1.45
1	k9	58	THR	C-N	5.32	1.38	1.33
1	kd	12	HIS	CE1-NE2	5.32	1.37	1.32
1	kl	57	ASN	C-O	-5.32	1.17	1.24
1	ko	14	ALA	CA-CB	5.32	1.62	1.53
1	kp	175	GLU	C-N	5.32	1.41	1.33
1	lf	12	HIS	N-CA	-5.32	1.39	1.46
1	lg	211	LEU	N-CA	5.32	1.53	1.46
1	lo	10	MET	N-CA	-5.32	1.39	1.46
1	lo	167	ARG	C-N	5.32	1.40	1.33
1	2F	167	ARG	NE-CZ	5.32	1.39	1.33
1	2J	130	TYR	CZ-OH	5.32	1.49	1.38
1	2X	155	GLN	CA-C	5.32	1.59	1.52
1	3w	181	VAL	C-N	-5.32	1.26	1.34
1	3Q	167	ARG	CA-C	-5.32	1.46	1.52
1	3V	41	SER	CA-CB	5.32	1.61	1.53
1	42	144	MET	CA-C	-5.32	1.45	1.52
1	4q	108	THR	N-CA	5.32	1.52	1.46
1	4s	27	VAL	CA-CB	-5.32	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4z	138	LEU	C-N	5.32	1.41	1.33
1	4A	81	ASP	C-N	5.32	1.41	1.33
1	4D	142	VAL	N-CA	-5.32	1.40	1.46
1	4Y	162	ARG	CA-C	5.32	1.59	1.52
1	57	175	GLU	CA-CB	5.32	1.61	1.53
1	5f	159	GLU	C-N	-5.32	1.26	1.33
1	5o	99	PRO	CA-CB	-5.32	1.47	1.53
1	5o	141	ILE	CA-C	5.32	1.59	1.52
1	5L	200	THR	CA-CB	5.32	1.61	1.53
1	63	80	TRP	N-CA	-5.32	1.40	1.46
1	6h	37	ILE	CA-CB	5.32	1.56	1.54
1	6o	101	GLY	CA-C	-5.32	1.45	1.51
1	6t	42	ALA	C-N	5.32	1.41	1.33
1	6A	22	ALA	CA-CB	5.32	1.61	1.53
1	6K	133	TRP	N-CA	5.32	1.52	1.46
1	7t	185	MET	C-O	-5.32	1.17	1.24
1	7u	157	PRO	CA-CB	-5.32	1.46	1.53
1	7z	221	VAL	CA-C	5.32	1.59	1.52
1	7C	142	VAL	CA-C	5.32	1.59	1.52
1	7M	211	LEU	C-O	-5.32	1.17	1.24
1	7Q	21	ASN	CA-C	-5.32	1.45	1.52
1	88	227	LYS	CA-C	5.32	1.59	1.52
1	8e	87	HIS	CA-CB	5.32	1.61	1.53
1	8E	55	MET	CA-CB	5.32	1.61	1.53
1	8F	199	LYS	CA-CB	-5.32	1.45	1.53
1	9U	128	GLU	C-N	5.32	1.40	1.33
1	a1	121	ASN	N-CA	-5.32	1.38	1.46
1	a5	73	ILE	CA-CB	5.32	1.60	1.54
1	av	219	GLN	N-CA	-5.32	1.39	1.46
1	aS	41	SER	CA-C	-5.32	1.46	1.52
1	aY	123	PRO	N-CA	5.32	1.53	1.47
1	b8	211	LEU	N-CA	5.32	1.52	1.46
1	bf	9	GLN	C-N	5.32	1.41	1.33
1	bx	212	GLU	N-CA	-5.32	1.40	1.46
1	bM	210	THR	CA-CB	5.32	1.62	1.53
1	c4	8	GLY	CA-C	5.32	1.58	1.51
1	c8	159	GLU	CA-C	5.32	1.58	1.52
1	ce	7	GLN	C-N	5.32	1.40	1.33
1	ce	82	ARG	CA-CB	5.32	1.61	1.54
1	cx	176	GLN	C-N	5.32	1.40	1.33
1	cH	171	THR	C-O	-5.32	1.18	1.24
1	cK	162	ARG	CA-C	5.32	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d2	121	ASN	CA-C	5.32	1.59	1.52
1	d3	127	GLY	N-CA	5.32	1.53	1.45
1	dd	35	GLU	CA-C	5.32	1.59	1.52
1	dh	43	LEU	CA-C	5.32	1.60	1.52
1	di	74	ASN	CA-CB	5.32	1.62	1.53
1	du	128	GLU	C-N	5.32	1.40	1.33
1	dL	122	PRO	N-CD	5.32	1.55	1.47
1	dX	91	ILE	N-CA	-5.32	1.39	1.46
1	e1	195	ASN	CA-C	5.32	1.59	1.52
1	em	211	LEU	N-CA	5.32	1.52	1.46
1	ey	145	TYR	CA-CB	5.32	1.62	1.53
1	eE	116	GLY	CA-C	-5.32	1.46	1.52
1	eL	28	GLU	CA-C	5.32	1.59	1.52
1	eO	181	VAL	CA-CB	5.32	1.61	1.54
1	eZ	171	THR	C-O	-5.32	1.17	1.24
1	f5	125	PRO	C-N	-5.32	1.27	1.34
1	fo	129	ILE	C-O	5.32	1.30	1.24
1	fu	162	ARG	CA-CB	-5.32	1.45	1.53
1	fG	135	ILE	CA-CB	-5.32	1.47	1.54
1	g1	181	VAL	CA-CB	5.32	1.60	1.54
1	c	19	THR	N-CA	-5.32	1.40	1.46
1	P	160	PRO	N-CA	-5.32	1.40	1.47
1	7	125	PRO	CA-CB	-5.32	1.48	1.53
1	gq	172	LEU	CA-CB	5.32	1.61	1.53
1	gv	96	MET	CA-CB	5.32	1.60	1.53
1	gL	191	VAL	CA-CB	5.32	1.61	1.54
1	id	162	ARG	C-O	-5.32	1.17	1.24
1	ip	33	SER	C-N	5.32	1.39	1.33
1	iv	136	LEU	N-CA	-5.32	1.40	1.46
1	1Q	84	HIS	N-CA	5.32	1.52	1.46
1	j7	191	VAL	C-O	-5.32	1.17	1.23
1	jW	24	VAL	N-CA	-5.32	1.40	1.46
1	jX	117	TRP	NE1-CE2	-5.32	1.31	1.37
1	ko	137	GLY	N-CA	5.32	1.53	1.45
1	kQ	48	THR	C-N	5.32	1.41	1.33
1	lx	187	GLU	CA-CB	5.32	1.61	1.53
1	lC	140	LYS	CA-CB	5.32	1.61	1.53
1	lM	89	GLY	C-N	5.32	1.38	1.33
1	2O	185	MET	C-O	-5.32	1.18	1.24
1	2X	117	TRP	N-CA	-5.32	1.39	1.46
1	32	163	ASP	C-N	5.32	1.40	1.33
1	3I	187	GLU	N-CA	-5.32	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3N	226	HIS	ND1-CE1	5.32	1.37	1.32
1	4o	143	ARG	CA-C	5.32	1.59	1.52
1	4B	142	VAL	N-CA	-5.32	1.40	1.46
1	4N	68	MET	N-CA	-5.32	1.40	1.46
1	56	80	TRP	NE1-CE2	5.32	1.43	1.37
1	5t	170	LYS	C-N	5.32	1.41	1.33
1	5M	163	ASP	C-N	5.32	1.40	1.33
1	5Q	95	GLN	C-N	5.32	1.40	1.33
1	6e	126	VAL	C-N	5.32	1.40	1.33
1	6A	203	LYS	N-CA	-5.32	1.39	1.46
1	7d	120	HIS	CG-CD2	5.32	1.41	1.35
1	7A	74	ASN	N-CA	5.32	1.52	1.46
1	82	72	THR	CA-C	-5.32	1.45	1.52
1	8E	139	ASN	CA-C	5.32	1.59	1.52
1	8X	90	PRO	N-CA	5.32	1.53	1.47
1	99	32	PHE	CA-CB	5.32	1.60	1.53
1	9j	66	MET	CA-CB	5.32	1.61	1.53
1	9y	202	LEU	CA-C	5.32	1.59	1.52
1	9z	109	SER	CA-C	-5.32	1.46	1.52
1	9B	214	MET	C-N	5.32	1.41	1.34
1	an	203	LYS	C-N	5.32	1.41	1.33
1	aD	203	LYS	N-CA	-5.32	1.39	1.46
1	aM	231	LEU	N-CA	-5.32	1.36	1.46
1	16	51	ASP	C-N	5.32	1.41	1.33
1	b8	152	ASP	N-CA	-5.32	1.39	1.46
1	bd	158	LYS	CA-CB	5.32	1.61	1.53
1	bf	174	ALA	CA-C	5.32	1.59	1.52
1	bE	143	ARG	CD-NE	5.32	1.53	1.46
1	ca	165	VAL	N-CA	5.32	1.52	1.46
1	cq	42	ALA	CA-CB	5.32	1.61	1.53
1	cF	43	LEU	C-N	5.32	1.41	1.33
1	dQ	208	ALA	CA-C	5.32	1.59	1.53
1	1n	185	MET	N-CA	-5.32	1.40	1.46
1	ep	94	GLY	CA-C	5.32	1.59	1.51
1	ey	85	PRO	N-CD	-5.32	1.40	1.47
1	f9	92	GLU	N-CA	-5.32	1.40	1.46
1	1A	84	HIS	CA-C	5.32	1.60	1.53
1	a	100	ARG	CD-NE	5.32	1.53	1.46
1	m	16	SER	C-O	5.32	1.31	1.23
1	z	199	LYS	CA-CB	5.32	1.62	1.53
1	E	18	ARG	CZ-NH2	-5.32	1.26	1.33
1	N	67	GLN	C-N	5.32	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	96	MET	CA-C	5.32	1.59	1.52
1	8	54	THR	C-N	5.32	1.41	1.33
1	9	132	ARG	CD-NE	5.32	1.53	1.46
1	gN	187	GLU	C-N	5.32	1.41	1.33
1	gQ	99	PRO	N-CA	-5.32	1.40	1.47
1	gS	8	GLY	CA-C	5.32	1.58	1.51
1	gY	132	ARG	C-N	5.32	1.41	1.33
1	he	97	ARG	CA-CB	5.32	1.61	1.53
1	ho	86	VAL	CA-C	5.32	1.58	1.52
1	hB	144	MET	CA-CB	5.32	1.61	1.53
1	hI	130	TYR	CG-CD2	5.32	1.50	1.39
1	hQ	91	ILE	CA-C	5.32	1.58	1.52
1	ia	59	VAL	CA-C	5.32	1.59	1.52
1	1Q	19	THR	CA-C	-5.32	1.46	1.52
1	1U	219	GLN	CA-CB	5.32	1.62	1.53
1	jg	26	VAL	CA-CB	-5.32	1.47	1.54
1	k1	165	VAL	C-N	5.32	1.40	1.33
1	kq	18	ARG	CZ-NH2	-5.32	1.26	1.33
1	l9	190	LEU	CA-CB	5.32	1.61	1.53
1	la	11	VAL	CA-CB	-5.32	1.47	1.53
1	la	195	ASN	CA-C	5.32	1.59	1.53
1	lg	87	HIS	CA-C	-5.32	1.46	1.52
1	lk	32	PHE	N-CA	-5.32	1.40	1.46
1	lm	109	SER	C-N	5.32	1.40	1.33
1	lH	43	LEU	C-N	-5.32	1.27	1.33
1	lL	149	SER	CA-C	5.32	1.59	1.52
1	2e	167	ARG	NE-CZ	5.32	1.38	1.33
1	2j	56	LEU	CA-C	-5.32	1.45	1.52
1	2p	37	ILE	CA-C	5.32	1.58	1.52
1	2x	84	HIS	ND1-CE1	5.32	1.37	1.32
1	2J	196	PRO	CA-C	5.32	1.59	1.52
1	30	124	ILE	CA-C	-5.32	1.48	1.53
1	30	167	ARG	N-CA	5.32	1.53	1.46
1	36	184	TRP	CG-CD2	5.32	1.53	1.43
1	3g	64	ALA	CA-C	5.32	1.59	1.52
1	3i	5	ASN	CA-CB	5.32	1.60	1.53
1	3l	144	MET	CA-CB	5.32	1.61	1.53
1	3r	184	TRP	CG-CD2	5.32	1.53	1.43
1	3D	8	GLY	N-CA	5.32	1.50	1.45
1	3E	211	LEU	CA-C	5.32	1.59	1.52
1	3N	52	LEU	CA-C	5.32	1.59	1.52
1	4g	179	GLN	N-CA	5.32	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4q	15	ILE	CA-C	-5.32	1.47	1.52
1	4s	75	GLU	C-N	5.32	1.41	1.33
1	4Q	97	ARG	CD-NE	5.32	1.53	1.46
1	4S	69	LEU	C-N	5.32	1.41	1.33
1	58	90	PRO	N-CD	-5.32	1.40	1.47
1	5l	126	VAL	N-CA	-5.32	1.40	1.46
1	5w	75	GLU	N-CA	-5.32	1.40	1.46
1	5x	23	TRP	NE1-CE2	-5.32	1.31	1.37
1	5S	120	HIS	ND1-CE1	5.32	1.37	1.32
1	6B	172	LEU	C-N	5.32	1.41	1.33
1	6W	32	PHE	C-O	-5.32	1.18	1.23
1	71	50	GLN	CA-CB	5.32	1.61	1.53
1	76	207	PRO	CA-C	-5.32	1.44	1.52
1	7c	45	GLU	CA-C	5.32	1.59	1.52
1	7j	187	GLU	N-CA	-5.32	1.40	1.46
1	7j	206	GLY	C-N	-5.32	1.28	1.33
1	7t	97	ARG	CA-CB	5.32	1.61	1.53
1	7Q	98	GLU	N-CA	-5.32	1.38	1.45
1	83	152	ASP	CA-CB	5.32	1.62	1.53
1	8z	17	PRO	C-O	5.32	1.30	1.24
1	8T	12	HIS	ND1-CE1	5.32	1.37	1.32
1	8Y	48	THR	CB-OG1	-5.32	1.35	1.43
1	97	12	HIS	CE1-NE2	5.32	1.37	1.32
1	9b	23	TRP	CZ2-CH2	5.32	1.47	1.37
1	9b	98	GLU	CA-C	5.32	1.58	1.52
1	9J	169	TYR	N-CA	5.32	1.52	1.46
1	9Q	130	TYR	CA-CB	5.32	1.61	1.53
1	Z	180	GLU	CA-CB	5.32	1.62	1.53
1	a2	203	LYS	CA-C	5.32	1.59	1.52
1	ae	191	VAL	CA-C	5.32	1.59	1.52
1	au	12	HIS	CG-CD2	5.32	1.41	1.35
1	aM	97	ARG	CD-NE	5.32	1.53	1.46
1	aR	51	ASP	N-CA	5.32	1.52	1.46
1	aR	108	THR	C-N	5.32	1.40	1.33
1	b9	110	THR	N-CA	5.32	1.52	1.45
1	bb	74	ASN	N-CA	-5.32	1.40	1.46
1	bd	202	LEU	N-CA	5.32	1.53	1.46
1	bk	49	PRO	N-CA	-5.32	1.40	1.47
1	bz	223	GLY	N-CA	-5.32	1.37	1.44
1	bB	62	HIS	CD2-NE2	5.32	1.43	1.37
1	bE	198	CYS	CA-CB	5.32	1.61	1.53
1	1a	83	LEU	C-N	5.32	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bU	33	SER	CA-C	5.32	1.58	1.53
1	ci	81	ASP	N-CA	-5.32	1.40	1.46
1	cX	155	GLN	CA-C	5.32	1.59	1.52
1	dq	70	LYS	N-CA	-5.32	1.39	1.46
1	dq	111	LEU	C-O	-5.32	1.17	1.24
1	dr	123	PRO	C-N	5.32	1.38	1.33
1	1l	185	MET	CA-C	5.32	1.59	1.52
1	dF	181	VAL	C-N	5.32	1.41	1.33
1	e8	118	MET	C-N	5.32	1.41	1.34
1	eq	99	PRO	C-N	5.32	1.40	1.33
1	ey	51	ASP	C-N	-5.32	1.27	1.33
1	eL	112	GLN	C-N	5.32	1.41	1.33
1	f3	165	VAL	C-N	5.32	1.40	1.33
1	fn	135	ILE	CA-CB	-5.32	1.47	1.54
1	fo	66	MET	C-N	5.32	1.41	1.33
1	fo	167	ARG	CD-NE	5.32	1.53	1.46
1	fG	12	HIS	ND1-CE1	5.32	1.37	1.32
1	z	155	GLN	N-CA	-5.32	1.39	1.46
1	F	90	PRO	CA-C	5.32	1.58	1.52
1	M	67	GLN	CA-C	5.32	1.59	1.52
1	M	82	ARG	C-N	5.32	1.41	1.33
1	8	191	VAL	C-N	5.32	1.41	1.33
1	gj	200	THR	N-CA	-5.32	1.40	1.46
1	go	28	GLU	C-N	5.32	1.41	1.33
1	gH	127	GLY	CA-C	-5.32	1.46	1.52
1	gU	35	GLU	C-N	5.32	1.40	1.34
1	gW	105	ALA	N-CA	-5.32	1.39	1.46
1	h4	134	ILE	C-N	5.32	1.40	1.33
1	hm	52	LEU	N-CA	5.32	1.52	1.46
1	hn	99	PRO	N-CA	5.32	1.53	1.47
1	hq	116	GLY	C-N	-5.32	1.27	1.33
1	hC	11	VAL	CA-C	5.32	1.59	1.52
1	1L	69	LEU	CA-CB	5.32	1.61	1.53
1	hQ	66	MET	N-CA	-5.32	1.39	1.46
1	hR	202	LEU	N-CA	5.32	1.52	1.46
1	i1	11	VAL	CA-C	-5.32	1.46	1.52
1	i5	68	MET	CA-C	5.32	1.60	1.52
1	ib	102	SER	CA-C	5.32	1.60	1.52
1	id	227	LYS	CA-CB	5.32	1.62	1.53
1	im	190	LEU	N-CA	5.32	1.53	1.46
1	iJ	45	GLU	N-CA	5.32	1.53	1.46
1	iT	33	SER	C-O	-5.32	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j3	190	LEU	N-CA	-5.32	1.39	1.46
1	jb	205	LEU	C-N	5.32	1.41	1.33
1	jp	73	ILE	C-N	5.32	1.41	1.33
1	jr	75	GLU	N-CA	5.32	1.52	1.46
1	jG	146	SER	CA-CB	5.32	1.61	1.52
1	jN	63	GLN	N-CA	5.32	1.52	1.46
1	jO	74	ASN	CA-CB	5.32	1.61	1.53
1	jS	112	GLN	CA-C	-5.32	1.45	1.52
1	jU	229	ARG	N-CA	5.32	1.52	1.46
1	jV	140	LYS	CA-CB	5.32	1.62	1.53
1	k4	118	MET	CA-C	5.32	1.59	1.52
1	k8	12	HIS	CG-ND1	5.32	1.44	1.38
1	kA	11	VAL	CA-CB	-5.32	1.48	1.54
1	kE	56	LEU	CA-CB	5.32	1.61	1.53
1	kT	84	HIS	N-CA	-5.32	1.41	1.46
1	kX	67	GLN	N-CA	-5.32	1.39	1.46
1	ld	74	ASN	N-CA	-5.32	1.39	1.46
1	lf	61	GLY	N-CA	5.32	1.52	1.45
1	lj	100	ARG	CA-C	-5.32	1.46	1.53
1	ll	184	TRP	C-O	-5.32	1.18	1.24
1	lC	78	ALA	C-O	-5.32	1.17	1.24
1	lC	85	PRO	CA-CB	5.32	1.60	1.53
1	2q	185	MET	CA-CB	5.32	1.61	1.53
1	2I	91	ILE	CA-C	-5.32	1.47	1.53
1	2O	113	GLU	C-O	-5.32	1.18	1.24
1	2R	11	VAL	C-N	5.32	1.40	1.33
1	35	139	ASN	CA-CB	5.32	1.61	1.53
1	3j	113	GLU	C-N	5.32	1.40	1.33
1	3s	51	ASP	N-CA	5.32	1.52	1.46
1	3s	154	ARG	CA-CB	5.32	1.61	1.53
1	3U	99	PRO	N-CA	5.32	1.53	1.47
1	3W	115	ILE	CA-C	-5.32	1.46	1.52
1	3X	62	HIS	CG-CD2	5.32	1.41	1.35
1	44	92	GLU	N-CA	-5.32	1.38	1.45
1	4j	134	ILE	N-CA	5.32	1.52	1.46
1	4x	154	ARG	CD-NE	5.32	1.53	1.46
1	4I	212	GLU	C-N	5.32	1.41	1.33
1	4T	22	ALA	N-CA	5.32	1.52	1.46
1	53	57	ASN	C-N	5.32	1.41	1.33
1	5C	21	ASN	N-CA	5.32	1.52	1.46
1	5G	162	ARG	CA-C	-5.32	1.46	1.52
1	60	67	GLN	N-CA	5.32	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6c	192	GLN	CA-CB	5.32	1.61	1.53
1	6i	125	PRO	C-N	5.32	1.40	1.34
1	6l	2	ILE	CA-CB	-5.32	1.47	1.54
1	6z	187	GLU	C-O	5.32	1.30	1.24
1	6B	178	SER	CA-CB	5.32	1.62	1.53
1	6M	106	GLY	CA-C	-5.32	1.44	1.51
1	6Q	67	GLN	CA-C	5.32	1.59	1.52
1	7c	203	LYS	N-CA	-5.32	1.38	1.45
1	7J	223	GLY	C-N	5.32	1.39	1.33
1	7K	12	HIS	ND1-CE1	5.32	1.37	1.32
1	83	210	THR	CA-CB	-5.32	1.44	1.53
1	8d	202	LEU	N-CA	-5.32	1.39	1.46
1	8J	122	PRO	C-N	-5.32	1.26	1.33
1	8P	73	ILE	N-CA	-5.32	1.40	1.46
1	8Z	164	TYR	N-CA	-5.32	1.40	1.46
1	96	217	ALA	CA-C	-5.32	1.46	1.52
1	9e	49	PRO	C-O	-5.32	1.17	1.24
1	9t	5	ASN	CA-C	5.32	1.59	1.52
1	9x	207	PRO	CA-C	5.32	1.61	1.52
1	9H	107	THR	N-CA	5.32	1.52	1.45
1	9M	23	TRP	CA-C	5.32	1.59	1.52
1	10	124	ILE	CA-CB	-5.32	1.48	1.53
1	ah	20	LEU	CA-CB	5.32	1.62	1.53
1	av	208	ALA	CA-C	-5.32	1.45	1.52
1	aw	74	ASN	CA-CB	5.32	1.61	1.53
1	aG	24	VAL	CA-CB	5.32	1.61	1.54
1	aQ	150	ILE	CA-CB	-5.32	1.47	1.54
1	b8	93	PRO	C-N	5.32	1.38	1.33
1	bF	155	GLN	CA-C	5.32	1.59	1.52
1	1d	21	ASN	N-CA	-5.32	1.40	1.46
1	cm	53	ASN	C-N	5.32	1.41	1.33
1	cu	187	GLU	CA-CB	5.32	1.63	1.53
1	cA	229	ARG	CZ-NH2	-5.32	1.26	1.33
1	dc	176	GLN	N-CA	5.32	1.53	1.46
1	dy	67	GLN	C-N	5.32	1.41	1.33
1	dG	65	ALA	C-N	5.32	1.41	1.33
1	1m	135	ILE	C-N	5.32	1.41	1.34
1	dL	50	GLN	CA-C	-5.32	1.45	1.52
1	dT	104	ILE	CA-C	5.32	1.59	1.52
1	e1	45	GLU	CA-C	-5.32	1.45	1.52
1	e1	155	GLN	CA-C	5.32	1.59	1.52
1	e4	229	ARG	N-CA	-5.32	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eb	190	LEU	CA-C	5.32	1.59	1.52
1	ee	230	VAL	CA-C	5.32	1.58	1.52
1	1q	109	SER	C-N	5.32	1.40	1.33
1	et	141	ILE	C-N	5.32	1.39	1.34
1	eL	115	ILE	C-N	-5.32	1.26	1.33
1	eT	75	GLU	CA-C	5.32	1.59	1.52
1	eW	146	SER	C-N	5.32	1.41	1.33
1	f2	43	LEU	C-N	5.32	1.41	1.33
1	f6	181	VAL	CA-C	5.32	1.59	1.52
1	1v	1	PRO	CA-C	5.32	1.64	1.52
1	fa	50	GLN	CA-CB	5.32	1.62	1.53
1	fy	191	VAL	CA-C	-5.32	1.46	1.53
1	1z	121	ASN	CA-CB	5.32	1.61	1.54
1	fZ	127	GLY	C-N	5.32	1.41	1.33
1	f	36	VAL	C-N	5.32	1.39	1.33
1	O	84	HIS	C-O	-5.32	1.20	1.25
1	U	217	ALA	N-CA	-5.32	1.39	1.46
1	5	155	GLN	CA-C	-5.32	1.46	1.52
1	5	161	PHE	CA-CB	5.32	1.61	1.53
1	8	92	GLU	CA-C	5.32	1.58	1.52
1	gd	83	LEU	CA-CB	5.31	1.62	1.53
1	gf	230	VAL	C-N	5.31	1.40	1.33
1	gE	67	GLN	C-N	5.31	1.41	1.33
1	hH	195	ASN	C-N	5.31	1.41	1.33
1	hQ	55	MET	N-CA	-5.31	1.40	1.46
1	ik	166	ASP	C-N	5.31	1.40	1.33
1	iX	172	LEU	CA-C	5.31	1.59	1.52
1	jd	194	ALA	C-N	5.31	1.41	1.33
1	js	33	SER	CA-C	5.31	1.58	1.52
1	kg	133	TRP	NE1-CE2	5.31	1.43	1.37
1	kW	7	GLN	C-N	5.31	1.41	1.33
1	kY	217	ALA	CA-C	-5.31	1.45	1.53
1	lt	130	TYR	CA-CB	5.31	1.61	1.53
1	lF	121	ASN	CA-CB	5.31	1.63	1.53
1	lG	163	ASP	CA-C	5.31	1.59	1.52
1	lM	153	ILE	CA-CB	5.31	1.59	1.53
1	2h	98	GLU	CA-CB	5.31	1.63	1.53
1	2y	220	GLY	C-N	5.31	1.40	1.34
1	3F	98	GLU	C-N	-5.31	1.26	1.33
1	3M	133	TRP	CZ2-CH2	5.31	1.47	1.37
1	58	104	ILE	C-O	-5.31	1.18	1.24
1	5v	134	ILE	CA-CB	5.31	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5U	173	ARG	N-CA	5.31	1.53	1.46
1	6H	8	GLY	C-N	5.31	1.41	1.33
1	72	87	HIS	CA-C	-5.31	1.45	1.52
1	72	120	HIS	CD2-NE2	5.31	1.43	1.37
1	8f	117	TRP	NE1-CE2	5.31	1.43	1.37
1	8p	34	PRO	CA-CB	-5.31	1.44	1.54
1	8B	220	GLY	N-CA	5.31	1.52	1.45
1	8W	224	PRO	CA-CB	5.31	1.60	1.53
1	8Y	96	MET	CA-C	5.31	1.59	1.52
1	94	104	ILE	CA-C	-5.31	1.46	1.52
1	9t	120	HIS	CD2-NE2	5.31	1.43	1.37
1	9I	71	GLU	C-N	5.31	1.40	1.33
1	9S	219	GLN	CA-CB	5.31	1.61	1.53
1	ap	87	HIS	CG-CD2	5.31	1.41	1.35
1	aE	32	PHE	C-N	5.31	1.41	1.33
1	b1	29	GLU	N-CA	5.31	1.53	1.46
1	c3	161	PHE	CA-C	-5.31	1.46	1.52
1	d5	113	GLU	CA-CB	5.31	1.61	1.53
1	ds	157	PRO	N-CD	5.31	1.55	1.47
1	dF	70	LYS	CA-C	5.31	1.59	1.52
1	dU	191	VAL	CA-C	-5.31	1.45	1.52
1	eh	219	GLN	CA-CB	5.31	1.62	1.53
1	eo	144	MET	CA-C	5.31	1.60	1.52
1	eD	124	ILE	CA-CB	-5.31	1.47	1.54
1	eG	148	THR	C-N	5.31	1.41	1.33
1	fH	193	ASN	CA-C	5.31	1.60	1.52
1	g0	168	PHE	CA-C	5.31	1.59	1.52
1	E	190	LEU	CA-CB	5.31	1.61	1.53
1	H	18	ARG	N-CA	-5.31	1.39	1.46
1	J	32	PHE	CA-C	5.31	1.60	1.52
1	T	18	ARG	N-CA	5.31	1.52	1.46
1	6	52	LEU	N-CA	5.31	1.52	1.46
1	gi	19	THR	C-O	-5.31	1.17	1.24
1	gk	95	GLN	C-O	5.31	1.30	1.23
1	gE	218	CYS	C-N	5.31	1.41	1.33
1	gI	199	LYS	CA-CB	5.31	1.61	1.53
1	gO	168	PHE	C-N	5.31	1.41	1.33
1	gU	226	HIS	C-N	5.31	1.40	1.33
1	gV	62	HIS	C-N	5.31	1.41	1.33
1	1G	51	ASP	N-CA	-5.31	1.40	1.46
1	1H	163	ASP	CA-C	5.31	1.60	1.52
1	h9	100	ARG	CD-NE	5.31	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ha	23	TRP	CD2-CE3	5.31	1.48	1.40
1	hq	56	LEU	CA-CB	5.31	1.61	1.53
1	hA	2	ILE	CA-C	5.31	1.58	1.52
1	i8	160	PRO	CA-C	-5.31	1.44	1.52
1	ih	141	ILE	N-CA	5.31	1.52	1.46
1	ir	50	GLN	CA-CB	5.31	1.61	1.53
1	1Q	146	SER	N-CA	-5.31	1.38	1.46
1	iN	82	ARG	CA-C	5.31	1.59	1.52
1	jg	225	GLY	CA-C	-5.31	1.44	1.51
1	jn	41	SER	CA-C	-5.31	1.46	1.52
1	jp	144	MET	CA-CB	5.31	1.61	1.53
1	jw	112	GLN	CA-CB	5.31	1.61	1.53
1	jz	173	ARG	CD-NE	5.31	1.53	1.46
1	1Y	210	THR	C-N	5.31	1.40	1.33
1	20	108	THR	CA-CB	5.31	1.62	1.53
1	kb	131	LYS	CA-CB	5.31	1.61	1.53
1	ki	100	ARG	N-CA	-5.31	1.39	1.45
1	kq	172	LEU	C-N	5.31	1.41	1.33
1	ky	18	ARG	CD-NE	5.31	1.53	1.46
1	kz	79	GLU	N-CA	-5.31	1.40	1.46
1	kC	148	THR	CA-C	5.31	1.59	1.52
1	kE	146	SER	N-CA	5.31	1.53	1.46
1	l1	59	VAL	CA-CB	-5.31	1.47	1.54
1	ll	109	SER	N-CA	5.31	1.52	1.45
1	lE	165	VAL	CA-C	-5.31	1.46	1.52
1	lF	185	MET	CA-CB	5.31	1.61	1.53
1	lH	219	GLN	CA-CB	5.31	1.62	1.53
1	lQ	206	GLY	CA-C	-5.31	1.44	1.51
1	2b	91	ILE	C-N	5.31	1.39	1.33
1	2h	112	GLN	CA-CB	5.31	1.61	1.53
1	2q	6	LEU	CA-C	5.31	1.59	1.52
1	2x	133	TRP	NE1-CE2	-5.31	1.31	1.37
1	2G	84	HIS	ND1-CE1	5.31	1.37	1.32
1	3b	6	LEU	N-CA	-5.31	1.39	1.46
1	3f	1	PRO	N-CD	5.31	1.55	1.47
1	3H	39	MET	CA-C	-5.31	1.45	1.52
1	3I	71	GLU	N-CA	-5.31	1.40	1.46
1	4m	213	GLU	CA-CB	5.31	1.61	1.53
1	4o	188	THR	N-CA	5.31	1.53	1.46
1	4I	118	MET	CA-C	5.31	1.59	1.52
1	4K	146	SER	CA-C	5.31	1.58	1.52
1	4V	100	ARG	CZ-NH2	-5.31	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5o	199	LYS	C-N	5.31	1.40	1.33
1	5r	2	ILE	CA-C	5.31	1.59	1.52
1	5v	215	MET	N-CA	5.31	1.53	1.46
1	5F	153	ILE	CA-C	-5.31	1.46	1.52
1	5S	10	MET	CA-CB	5.31	1.62	1.53
1	5T	98	GLU	CA-CB	5.31	1.61	1.53
1	60	176	GLN	CA-CB	-5.31	1.45	1.53
1	6a	138	LEU	CA-CB	5.31	1.62	1.53
1	6b	129	ILE	C-N	5.31	1.40	1.33
1	6h	198	CYS	CA-CB	5.31	1.61	1.53
1	6l	51	ASP	C-N	5.31	1.40	1.33
1	6I	88	ALA	CA-CB	5.31	1.62	1.53
1	6P	187	GLU	CA-C	5.31	1.59	1.52
1	6X	63	GLN	N-CA	-5.31	1.39	1.46
1	6Z	103	ASP	C-N	5.31	1.40	1.34
1	7l	49	PRO	CA-CB	-5.31	1.46	1.53
1	7q	4	GLN	N-CA	-5.31	1.39	1.45
1	7B	26	VAL	CA-CB	-5.31	1.47	1.54
1	7G	202	LEU	N-CA	-5.31	1.39	1.46
1	7N	12	HIS	N-CA	-5.31	1.39	1.46
1	85	5	ASN	CA-C	5.31	1.59	1.52
1	8k	156	GLY	CA-C	5.31	1.59	1.51
1	8W	131	LYS	C-O	-5.31	1.18	1.24
1	93	229	ARG	NE-CZ	5.31	1.38	1.33
1	97	110	THR	C-N	5.31	1.40	1.33
1	9c	3	VAL	C-O	-5.31	1.18	1.24
1	9N	141	ILE	CB-CG1	5.31	1.64	1.53
1	af	13	GLN	C-N	5.31	1.40	1.33
1	al	150	ILE	CA-CB	5.31	1.62	1.54
1	ar	97	ARG	C-O	-5.31	1.17	1.23
1	aH	98	GLU	C-N	5.31	1.39	1.33
1	aH	176	GLN	CA-CB	5.31	1.60	1.53
1	aT	191	VAL	CA-CB	5.31	1.61	1.54
1	bg	56	LEU	CA-C	5.31	1.59	1.52
1	bi	80	TRP	C-N	5.31	1.41	1.33
1	bn	209	ALA	CA-C	5.31	1.59	1.52
1	bx	27	VAL	N-CA	5.31	1.52	1.46
1	bz	176	GLN	C-N	5.31	1.41	1.33
1	bG	164	TYR	CA-C	5.31	1.59	1.52
1	bG	192	GLN	CA-CB	5.31	1.62	1.53
1	bH	120	HIS	C-N	5.31	1.41	1.33
1	bM	85	PRO	C-N	5.31	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1c	14	ALA	C-N	5.31	1.40	1.33
1	c9	63	GLN	CA-C	5.31	1.60	1.52
1	c9	230	VAL	CA-CB	5.31	1.61	1.54
1	cn	98	GLU	CA-CB	5.31	1.62	1.53
1	cE	130	TYR	CA-CB	5.31	1.62	1.53
1	cG	12	HIS	CD2-NE2	5.31	1.43	1.37
1	cI	40	PHE	CA-CB	5.31	1.61	1.53
1	cK	201	ILE	N-CA	-5.31	1.40	1.46
1	d7	10	MET	N-CA	5.31	1.53	1.46
1	dm	26	VAL	CA-CB	5.31	1.60	1.54
1	dx	65	ALA	C-N	5.31	1.40	1.33
1	dC	40	PHE	C-N	5.31	1.41	1.33
1	dK	70	LYS	CA-C	-5.31	1.46	1.52
1	dQ	147	PRO	N-CD	-5.31	1.40	1.47
1	e0	145	TYR	CA-CB	5.31	1.61	1.53
1	ec	103	ASP	CA-CB	5.31	1.61	1.53
1	ee	221	VAL	C-O	-5.31	1.17	1.24
1	eC	206	GLY	C-O	-5.31	1.16	1.24
1	1t	27	VAL	C-N	5.31	1.41	1.33
1	eW	211	LEU	CA-C	5.31	1.59	1.52
1	eY	82	ARG	CD-NE	5.31	1.53	1.46
1	fe	62	HIS	C-N	5.31	1.41	1.33
1	fr	7	GLN	CA-C	5.31	1.59	1.52
1	1x	141	ILE	CA-C	5.31	1.59	1.52
1	fR	99	PRO	CA-CB	-5.31	1.47	1.53
1	fX	1	PRO	C-N	5.31	1.41	1.33
1	b	57	ASN	N-CA	-5.31	1.39	1.46
1	F	5	ASN	CA-CB	5.31	1.61	1.53
1	L	167	ARG	CD-NE	5.31	1.53	1.46
1	7	83	LEU	CA-C	5.31	1.60	1.52
1	gb	30	LYS	CA-C	5.31	1.59	1.52
1	h4	100	ARG	CD-NE	5.31	1.53	1.46
1	iE	132	ARG	CA-CB	5.31	1.61	1.53
1	iR	157	PRO	N-CD	-5.31	1.40	1.47
1	j2	82	ARG	NE-CZ	5.31	1.38	1.33
1	kr	132	ARG	N-CA	5.31	1.52	1.46
1	23	115	ILE	CA-C	-5.31	1.46	1.52
1	kX	50	GLN	CA-CB	5.31	1.61	1.53
1	l4	57	ASN	N-CA	-5.31	1.38	1.46
1	lP	156	GLY	CA-C	5.31	1.59	1.51
1	2b	93	PRO	N-CA	-5.31	1.40	1.47
1	2g	120	HIS	ND1-CE1	5.31	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2L	203	LYS	N-CA	-5.31	1.39	1.46
1	2U	3	VAL	C-N	5.31	1.41	1.33
1	2V	198	CYS	C-N	5.31	1.40	1.33
1	3g	87	HIS	ND1-CE1	5.31	1.37	1.32
1	3F	181	VAL	C-N	5.31	1.40	1.33
1	3R	18	ARG	CD-NE	5.31	1.53	1.46
1	4x	10	MET	C-N	5.31	1.40	1.33
1	56	51	ASP	C-O	-5.31	1.18	1.24
1	5c	23	TRP	C-N	5.31	1.40	1.33
1	5l	22	ALA	CA-C	5.31	1.59	1.52
1	5X	22	ALA	C-O	-5.31	1.18	1.24
1	5Y	37	ILE	CA-CB	5.31	1.57	1.54
1	6d	221	VAL	C-N	5.31	1.40	1.33
1	6t	38	PRO	CA-C	-5.31	1.45	1.52
1	6D	150	ILE	CA-CB	-5.31	1.46	1.54
1	72	229	ARG	N-CA	5.31	1.52	1.46
1	7E	11	VAL	C-N	5.31	1.40	1.33
1	89	173	ARG	CA-C	-5.31	1.45	1.52
1	8l	122	PRO	N-CD	-5.31	1.40	1.47
1	8D	60	GLY	N-CA	5.31	1.53	1.45
1	8F	106	GLY	CA-C	-5.31	1.44	1.51
1	96	175	GLU	CA-CB	5.31	1.61	1.53
1	97	109	SER	CA-CB	5.31	1.61	1.53
1	9N	123	PRO	N-CA	5.31	1.53	1.47
1	9S	183	ASN	CA-C	5.31	1.59	1.52
1	ar	40	PHE	CG-CD1	5.31	1.50	1.38
1	by	96	MET	N-CA	-5.31	1.39	1.46
1	cp	72	THR	CA-CB	5.31	1.61	1.53
1	cK	164	TYR	N-CA	-5.31	1.39	1.46
1	cN	155	GLN	CA-CB	5.31	1.61	1.53
1	dv	116	GLY	C-N	5.31	1.41	1.33
1	dw	86	VAL	CA-CB	5.31	1.61	1.54
1	ea	144	MET	C-N	5.31	1.40	1.33
1	er	79	GLU	CA-CB	5.31	1.61	1.53
1	eX	137	GLY	N-CA	5.31	1.52	1.45
1	fn	165	VAL	N-CA	-5.31	1.40	1.46
1	fr	54	THR	C-N	5.31	1.40	1.33
1	fW	139	ASN	CA-C	-5.31	1.45	1.52
1	g6	13	GLN	N-CA	-5.31	1.39	1.45
1	b	50	GLN	CA-CB	-5.31	1.45	1.53
1	v	92	GLU	CA-CB	5.31	1.60	1.53
1	O	67	GLN	CA-C	5.31	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gb	86	VAL	N-CA	5.31	1.52	1.46
1	1E	179	GLN	N-CA	5.31	1.52	1.46
1	1F	3	VAL	CA-C	-5.31	1.47	1.52
1	gZ	43	LEU	CA-C	-5.31	1.45	1.52
1	hf	157	PRO	C-N	5.31	1.40	1.33
1	hm	84	HIS	ND1-CE1	5.31	1.37	1.32
1	hx	204	ALA	C-O	5.31	1.30	1.24
1	1L	109	SER	N-CA	5.31	1.52	1.46
1	hN	55	MET	CA-CB	5.31	1.61	1.53
1	hO	161	PHE	CA-CB	5.31	1.61	1.53
1	1N	194	ALA	CA-CB	5.31	1.62	1.53
1	1O	65	ALA	C-N	5.31	1.41	1.33
1	ip	144	MET	C-N	5.31	1.40	1.33
1	iW	160	PRO	C-N	5.31	1.40	1.33
1	js	62	HIS	CA-CB	5.31	1.61	1.53
1	1X	160	PRO	CA-CB	5.31	1.60	1.53
1	jP	8	GLY	CA-C	5.31	1.59	1.51
1	k7	163	ASP	C-O	-5.31	1.17	1.24
1	ki	31	ALA	CA-C	5.31	1.59	1.52
1	kr	9	GLN	N-CA	-5.31	1.39	1.45
1	22	149	SER	C-N	5.31	1.39	1.34
1	kC	66	MET	CA-CB	5.31	1.61	1.53
1	kD	224	PRO	C-N	5.31	1.41	1.33
1	kZ	193	ASN	C-N	5.31	1.40	1.33
1	l6	23	TRP	CZ2-CH2	5.31	1.47	1.37
1	lf	172	LEU	CA-CB	5.31	1.61	1.53
1	lw	67	GLN	N-CA	-5.31	1.40	1.46
1	lw	226	HIS	CB-CG	5.31	1.57	1.50
1	lQ	62	HIS	CA-C	-5.31	1.46	1.53
1	2R	92	GLU	N-CA	-5.31	1.40	1.45
1	2R	224	PRO	CA-C	5.31	1.58	1.52
1	33	59	VAL	CA-C	-5.31	1.46	1.52
1	37	44	SER	N-CA	5.31	1.52	1.46
1	3n	76	GLU	CA-C	-5.31	1.46	1.52
1	3S	226	HIS	CA-CB	5.31	1.62	1.53
1	3Z	20	LEU	CA-C	5.31	1.59	1.52
1	4c	141	ILE	N-CA	-5.31	1.40	1.46
1	4h	124	ILE	CA-C	5.31	1.57	1.53
1	4r	215	MET	N-CA	-5.31	1.39	1.46
1	4v	162	ARG	NE-CZ	-5.31	1.27	1.33
1	4H	221	VAL	C-N	5.31	1.41	1.33
1	4T	24	VAL	CA-C	5.31	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	58	51	ASP	N-CA	5.31	1.52	1.46
1	5D	18	ARG	NE-CZ	-5.31	1.27	1.33
1	5U	78	ALA	CA-C	-5.31	1.46	1.52
1	5X	195	ASN	CA-C	5.31	1.59	1.53
1	64	66	MET	C-O	-5.31	1.17	1.24
1	6s	226	HIS	N-CA	-5.31	1.41	1.46
1	6E	97	ARG	C-N	5.31	1.41	1.33
1	6E	118	MET	C-N	5.31	1.41	1.33
1	6W	73	ILE	CA-CB	-5.31	1.48	1.54
1	6Y	184	TRP	CA-CB	5.31	1.62	1.53
1	7D	12	HIS	CE1-NE2	5.31	1.37	1.32
1	7E	173	ARG	CA-CB	5.31	1.62	1.53
1	7F	79	GLU	CA-CB	-5.31	1.45	1.53
1	7F	106	GLY	CA-C	-5.31	1.44	1.51
1	7X	184	TRP	CA-C	-5.31	1.46	1.52
1	8e	5	ASN	C-N	5.31	1.40	1.33
1	8w	123	PRO	CA-CB	-5.31	1.46	1.53
1	8B	214	MET	N-CA	-5.31	1.39	1.46
1	8L	151	LEU	C-N	5.31	1.41	1.33
1	8N	197	ASP	N-CA	5.31	1.52	1.46
1	8V	107	THR	C-N	5.31	1.41	1.33
1	8W	182	LYS	C-N	5.31	1.41	1.34
1	9g	20	LEU	N-CA	-5.31	1.40	1.46
1	9l	146	SER	CA-CB	5.31	1.61	1.52
1	9p	206	GLY	C-N	5.31	1.39	1.33
1	9G	124	ILE	N-CA	-5.31	1.42	1.46
1	a4	145	TYR	CA-C	5.31	1.59	1.52
1	ab	34	PRO	CA-CB	5.31	1.61	1.53
1	11	141	ILE	CA-CB	-5.31	1.48	1.54
1	13	25	LYS	CA-CB	5.31	1.61	1.53
1	aI	58	THR	CA-C	-5.31	1.45	1.52
1	aL	19	THR	N-CA	-5.31	1.40	1.46
1	aN	15	ILE	CA-C	5.31	1.60	1.52
1	aR	50	GLN	N-CA	-5.31	1.40	1.46
1	b6	177	ALA	C-N	5.31	1.40	1.33
1	bd	194	ALA	CA-C	-5.31	1.46	1.52
1	bx	97	ARG	N-CA	-5.31	1.39	1.46
1	bV	124	ILE	CA-CB	5.31	1.61	1.54
1	1d	80	TRP	CA-C	5.31	1.59	1.52
1	cj	112	GLN	CA-CB	5.31	1.61	1.53
1	cn	5	ASN	CA-CB	5.31	1.64	1.54
1	1e	144	MET	CA-C	-5.31	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cF	107	THR	N-CA	5.31	1.52	1.46
1	cV	49	PRO	N-CA	5.31	1.54	1.47
1	d5	50	GLN	C-N	5.31	1.40	1.33
1	dp	113	GLU	CA-C	-5.31	1.45	1.52
1	dr	226	HIS	CB-CG	5.31	1.57	1.50
1	1l	22	ALA	CA-CB	5.31	1.62	1.53
1	dJ	154	ARG	C-N	5.31	1.41	1.33
1	dS	127	GLY	C-N	5.31	1.41	1.33
1	1o	141	ILE	CA-C	-5.31	1.45	1.52
1	eo	36	VAL	C-N	5.31	1.39	1.33
1	1r	172	LEU	CA-C	5.31	1.59	1.52
1	eC	132	ARG	CD-NE	5.31	1.53	1.46
1	eO	15	ILE	CA-C	5.31	1.58	1.52
1	1t	173	ARG	CD-NE	5.31	1.53	1.46
1	eT	9	GLN	CA-CB	5.31	1.62	1.53
1	eT	163	ASP	CA-C	5.31	1.59	1.52
1	1u	134	ILE	C-N	5.31	1.40	1.33
1	fg	34	PRO	C-N	5.31	1.42	1.33
1	fv	77	ALA	C-N	5.31	1.40	1.33
1	fv	202	LEU	CA-CB	5.31	1.61	1.53
1	fR	219	GLN	CA-C	-5.31	1.46	1.52
1	fY	125	PRO	CA-C	-5.31	1.48	1.53
1	g4	115	ILE	CA-CB	5.31	1.61	1.54
1	b	99	PRO	N-CA	-5.31	1.41	1.47
1	g	21	ASN	CA-C	5.31	1.59	1.52
1	x	211	LEU	CA-C	-5.31	1.45	1.52
1	L	194	ALA	C-N	5.31	1.41	1.33
1	M	41	SER	N-CA	-5.31	1.40	1.46
1	M	221	VAL	C-N	5.31	1.40	1.33
1	P	31	ALA	CA-C	5.31	1.59	1.52
1	gg	11	VAL	CA-CB	-5.31	1.47	1.54
1	gp	82	ARG	CD-NE	5.31	1.53	1.46
1	1E	104	ILE	C-O	-5.31	1.17	1.24
1	gQ	12	HIS	ND1-CE1	5.31	1.37	1.32
1	gZ	18	ARG	NE-CZ	-5.31	1.27	1.33
1	ha	10	MET	CA-C	5.31	1.59	1.52
1	hj	67	GLN	N-CA	-5.31	1.39	1.46
1	hr	12	HIS	ND1-CE1	5.31	1.37	1.32
1	hG	38	PRO	CA-C	5.31	1.59	1.52
1	hH	59	VAL	CA-CB	5.31	1.60	1.54
1	hR	176	GLN	CA-C	5.31	1.59	1.52
1	hR	184	TRP	CG-CD2	5.31	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hT	24	VAL	CA-C	5.31	1.59	1.52
1	1N	40	PHE	CA-CB	5.31	1.61	1.53
1	i6	34	PRO	N-CD	-5.31	1.40	1.47
1	i6	191	VAL	CA-CB	-5.31	1.48	1.54
1	i7	206	GLY	CA-C	-5.31	1.44	1.51
1	ic	103	ASP	CA-CB	5.31	1.61	1.53
1	ic	175	GLU	CD-OE2	5.31	1.35	1.25
1	id	78	ALA	CA-C	5.31	1.59	1.52
1	ip	166	ASP	CA-CB	5.31	1.61	1.53
1	iK	16	SER	CA-CB	5.31	1.62	1.53
1	ja	134	ILE	C-N	5.31	1.40	1.33
1	jJ	96	MET	C-N	5.31	1.40	1.33
1	kd	178	SER	C-N	5.31	1.40	1.33
1	22	28	GLU	C-N	5.31	1.41	1.33
1	kx	111	LEU	N-CA	5.31	1.52	1.46
1	23	33	SER	CA-CB	5.31	1.60	1.53
1	24	144	MET	N-CA	-5.31	1.40	1.46
1	kQ	212	GLU	C-N	5.31	1.41	1.34
1	kS	148	THR	N-CA	-5.31	1.39	1.45
1	kT	125	PRO	CA-C	-5.31	1.47	1.53
1	l0	94	GLY	N-CA	5.31	1.52	1.45
1	l9	133	TRP	CA-CB	5.31	1.61	1.53
1	lp	99	PRO	CA-CB	5.31	1.61	1.53
1	lQ	154	ARG	CZ-NH2	-5.31	1.26	1.33
1	2f	132	ARG	CD-NE	5.31	1.53	1.46
1	2g	190	LEU	CB-CG	5.31	1.64	1.53
1	2k	204	ALA	CA-C	5.31	1.59	1.52
1	2r	119	THR	CA-CB	-5.31	1.46	1.53
1	2S	88	ALA	CA-C	-5.31	1.45	1.53
1	2W	84	HIS	CB-CG	5.31	1.57	1.50
1	31	48	THR	CA-C	5.31	1.60	1.52
1	32	160	PRO	N-CD	-5.31	1.40	1.47
1	34	226	HIS	CA-CB	5.31	1.62	1.53
1	3e	68	MET	N-CA	-5.31	1.40	1.46
1	3y	20	LEU	C-N	5.31	1.40	1.33
1	3H	178	SER	CA-CB	5.31	1.62	1.53
1	46	93	PRO	N-CD	5.31	1.55	1.47
1	49	72	THR	C-N	5.31	1.40	1.33
1	4i	40	PHE	C-N	5.31	1.40	1.33
1	4x	37	ILE	CA-CB	5.31	1.57	1.54
1	4B	18	ARG	CD-NE	5.31	1.53	1.46
1	4S	30	LYS	C-N	5.31	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5d	39	MET	N-CA	5.31	1.53	1.46
1	5e	151	LEU	C-O	-5.31	1.18	1.24
1	5x	222	GLY	N-CA	5.31	1.52	1.45
1	5z	84	HIS	CG-ND1	5.31	1.44	1.38
1	5W	169	TYR	CA-C	5.31	1.59	1.52
1	67	54	THR	C-N	5.31	1.40	1.33
1	6f	165	VAL	N-CA	-5.31	1.40	1.46
1	6m	89	GLY	N-CA	5.31	1.51	1.44
1	6n	78	ALA	N-CA	5.31	1.52	1.46
1	6x	80	TRP	CA-C	5.31	1.59	1.52
1	6W	61	GLY	C-N	5.31	1.41	1.33
1	6X	180	GLU	C-N	5.31	1.40	1.33
1	72	12	HIS	CB-CG	5.31	1.57	1.50
1	7f	108	THR	CA-C	-5.31	1.45	1.52
1	7j	144	MET	CA-CB	5.31	1.62	1.53
1	7L	213	GLU	C-N	5.31	1.40	1.33
1	7M	181	VAL	N-CA	-5.31	1.40	1.46
1	7O	6	LEU	C-O	-5.31	1.17	1.23
1	7Q	65	ALA	N-CA	-5.31	1.39	1.46
1	8J	2	ILE	N-CA	-5.31	1.39	1.46
1	8S	67	GLN	N-CA	-5.31	1.40	1.46
1	91	84	HIS	ND1-CE1	5.31	1.37	1.32
1	95	53	ASN	CA-CB	5.31	1.61	1.53
1	9a	10	MET	CA-C	5.31	1.59	1.52
1	9g	116	GLY	C-N	5.31	1.41	1.34
1	9n	76	GLU	N-CA	5.31	1.52	1.46
1	9t	18	ARG	CD-NE	5.31	1.53	1.46
1	9K	150	ILE	CA-C	5.31	1.59	1.52
1	9S	213	GLU	CA-CB	5.31	1.61	1.53
1	9V	110	THR	C-N	5.31	1.40	1.33
1	ae	97	ARG	CA-C	5.31	1.60	1.53
1	ap	196	PRO	N-CA	5.31	1.54	1.47
1	aw	10	MET	C-N	5.31	1.40	1.33
1	ax	23	TRP	NE1-CE2	-5.31	1.31	1.37
1	aB	72	THR	CA-C	-5.31	1.46	1.52
1	aG	84	HIS	C-N	5.31	1.40	1.33
1	aR	1	PRO	N-CA	5.31	1.55	1.47
1	b1	227	LYS	N-CA	5.31	1.52	1.45
1	b9	228	ALA	C-N	5.31	1.41	1.33
1	bd	218	CYS	CA-C	5.31	1.59	1.52
1	bw	189	LEU	CB-CG	5.31	1.64	1.53
1	bJ	87	HIS	ND1-CE1	5.31	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bP	86	VAL	CA-CB	5.31	1.61	1.54
1	bY	72	THR	CA-C	5.31	1.59	1.52
1	c1	49	PRO	C-O	-5.31	1.17	1.24
1	c9	19	THR	CA-C	5.31	1.59	1.52
1	cg	167	ARG	C-N	5.31	1.40	1.33
1	co	202	LEU	C-N	5.31	1.40	1.33
1	cs	12	HIS	CA-CB	5.31	1.61	1.53
1	cz	153	ILE	C-O	-5.31	1.18	1.24
1	cI	121	ASN	C-O	5.31	1.29	1.25
1	cO	176	GLN	CA-CB	5.31	1.62	1.53
1	cR	63	GLN	C-O	-5.31	1.18	1.24
1	d3	156	GLY	CA-C	-5.31	1.44	1.51
1	ds	27	VAL	N-CA	5.31	1.52	1.46
1	du	79	GLU	N-CA	-5.31	1.40	1.46
1	e6	230	VAL	CA-C	-5.31	1.47	1.53
1	ea	63	GLN	N-CA	-5.31	1.39	1.46
1	eb	218	CYS	CA-C	5.31	1.59	1.52
1	ed	139	ASN	N-CA	5.31	1.52	1.46
1	eh	144	MET	N-CA	5.31	1.52	1.46
1	el	212	GLU	CA-CB	5.31	1.61	1.53
1	eu	172	LEU	CB-CG	5.31	1.64	1.53
1	ez	72	THR	C-N	5.31	1.40	1.33
1	eI	186	THR	C-O	-5.31	1.18	1.24
1	eI	189	LEU	C-N	5.31	1.40	1.33
1	eS	109	SER	N-CA	-5.31	1.39	1.45
1	fq	43	LEU	CA-C	-5.31	1.45	1.52
1	fq	79	GLU	CA-C	5.31	1.59	1.52
1	fw	210	THR	CA-C	-5.31	1.46	1.52
1	fL	39	MET	N-CA	5.31	1.52	1.46
1	fL	124	ILE	CA-CB	-5.31	1.48	1.53
1	g0	59	VAL	CA-CB	-5.31	1.47	1.54
1	g2	84	HIS	CE1-NE2	-5.31	1.27	1.32
1	f	183	ASN	CA-C	-5.31	1.46	1.52
1	2	156	GLY	N-CA	5.31	1.51	1.44
1	D	184	TRP	C-N	5.31	1.40	1.33
1	H	12	HIS	CG-CD2	5.31	1.41	1.35
1	gX	21	ASN	CA-C	-5.31	1.46	1.52
1	hr	162	ARG	CZ-NH1	-5.31	1.25	1.32
1	hv	163	ASP	CA-CB	5.31	1.61	1.53
1	hV	75	GLU	CA-C	5.31	1.59	1.52
1	iu	8	GLY	CA-C	-5.31	1.44	1.51
1	iw	210	THR	N-CA	5.31	1.53	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iU	52	LEU	CA-C	5.31	1.59	1.52
1	j1	55	MET	N-CA	-5.31	1.40	1.46
1	jp	173	ARG	CA-C	5.31	1.59	1.52
1	1X	191	VAL	N-CA	5.31	1.51	1.46
1	1Z	152	ASP	N-CA	5.31	1.53	1.46
1	k8	66	MET	CA-C	5.31	1.59	1.52
1	ka	134	ILE	C-O	-5.31	1.18	1.24
1	kf	121	ASN	CA-CB	5.31	1.61	1.53
1	kK	50	GLN	CA-CB	5.31	1.61	1.53
1	kM	111	LEU	C-N	5.31	1.40	1.33
1	lo	32	PHE	CA-CB	5.31	1.60	1.53
1	2z	115	ILE	CA-CB	-5.31	1.47	1.54
1	2D	112	GLN	N-CA	-5.31	1.40	1.46
1	3C	164	TYR	N-CA	5.31	1.52	1.46
1	45	155	GLN	CA-CB	5.31	1.60	1.53
1	4f	43	LEU	C-N	5.31	1.40	1.33
1	4O	57	ASN	C-O	-5.31	1.17	1.24
1	4R	188	THR	N-CA	5.31	1.53	1.46
1	5n	210	THR	CA-CB	5.31	1.61	1.53
1	5G	226	HIS	CB-CG	5.31	1.57	1.50
1	5K	70	LYS	C-N	5.31	1.41	1.33
1	5X	42	ALA	CA-C	-5.31	1.46	1.52
1	78	38	PRO	C-N	5.31	1.40	1.33
1	7j	216	THR	C-N	5.31	1.40	1.33
1	7N	145	TYR	N-CA	5.31	1.53	1.46
1	8W	111	LEU	CA-C	5.31	1.59	1.52
1	94	132	ARG	N-CA	5.31	1.52	1.46
1	98	25	LYS	C-N	5.31	1.40	1.33
1	ag	156	GLY	C-N	5.31	1.40	1.34
1	az	153	ILE	CA-C	5.31	1.59	1.52
1	aN	209	ALA	CA-CB	5.31	1.61	1.53
1	aZ	162	ARG	CA-C	5.31	1.59	1.52
1	b8	164	TYR	C-N	5.31	1.40	1.33
1	bz	86	VAL	CA-CB	5.31	1.60	1.54
1	bX	100	ARG	CD-NE	5.31	1.53	1.46
1	c5	50	GLN	CA-C	-5.31	1.45	1.52
1	ch	223	GLY	N-CA	5.31	1.51	1.44
1	cr	64	ALA	N-CA	-5.31	1.40	1.46
1	cA	156	GLY	N-CA	5.31	1.51	1.44
1	cJ	148	THR	CA-C	-5.31	1.46	1.52
1	cU	71	GLU	N-CA	-5.31	1.40	1.46
1	cX	167	ARG	C-N	5.31	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cY	74	ASN	CA-C	5.31	1.59	1.52
1	dF	27	VAL	CA-C	5.31	1.59	1.52
1	e2	51	ASP	C-O	-5.31	1.18	1.24
1	e6	134	ILE	C-O	-5.31	1.18	1.24
1	el	142	VAL	N-CA	5.31	1.52	1.46
1	1y	51	ASP	N-CA	-5.31	1.39	1.46
1	fS	39	MET	C-O	-5.31	1.18	1.24
1	g2	133	TRP	C-O	-5.31	1.18	1.24
1	1	8	GLY	CA-C	5.31	1.58	1.51
1	3	54	THR	C-N	5.31	1.40	1.33
1	ga	72	THR	C-N	5.30	1.40	1.33
1	gB	92	GLU	C-O	-5.30	1.19	1.24
1	gJ	135	ILE	N-CA	5.30	1.52	1.46
1	1F	204	ALA	C-N	5.30	1.41	1.34
1	gM	196	PRO	CA-CB	-5.30	1.45	1.53
1	gW	98	GLU	CA-CB	-5.30	1.45	1.53
1	gX	29	GLU	CA-C	-5.30	1.45	1.52
1	gY	12	HIS	CE1-NE2	5.30	1.37	1.32
1	h1	136	LEU	CA-CB	5.30	1.61	1.53
1	h8	199	LYS	C-N	5.30	1.40	1.33
1	1K	226	HIS	CD2-NE2	5.30	1.43	1.37
1	hA	133	TRP	NE1-CE2	-5.30	1.31	1.37
1	hN	124	ILE	CA-C	5.30	1.57	1.53
1	hS	196	PRO	N-CD	-5.30	1.40	1.47
1	ig	173	ARG	CZ-NH1	-5.30	1.25	1.32
1	ii	58	THR	C-N	5.30	1.40	1.33
1	ip	92	GLU	C-N	5.30	1.38	1.33
1	iI	70	LYS	CA-C	-5.30	1.46	1.52
1	iU	39	MET	CA-CB	5.30	1.61	1.53
1	iY	12	HIS	CD2-NE2	5.30	1.43	1.37
1	jN	1	PRO	N-CD	5.30	1.55	1.47
1	jU	23	TRP	C-N	5.30	1.40	1.33
1	k9	33	SER	N-CA	5.30	1.53	1.45
1	kz	177	ALA	CA-C	5.30	1.59	1.52
1	kB	82	ARG	N-CA	5.30	1.52	1.46
1	kG	62	HIS	CB-CG	5.30	1.57	1.50
1	kM	124	ILE	CA-CB	-5.30	1.48	1.53
1	24	57	ASN	CA-CB	5.30	1.61	1.53
1	l0	55	MET	N-CA	5.30	1.52	1.46
1	l0	154	ARG	CD-NE	5.30	1.53	1.46
1	ll	111	LEU	C-O	-5.30	1.17	1.24
1	lm	38	PRO	CA-C	5.30	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lF	73	ILE	N-CA	-5.30	1.39	1.46
1	lG	121	ASN	CA-C	-5.30	1.46	1.52
1	2b	104	ILE	C-N	5.30	1.40	1.33
1	2m	196	PRO	CA-CB	-5.30	1.46	1.53
1	2x	226	HIS	C-O	-5.30	1.17	1.24
1	2L	226	HIS	CD2-NE2	5.30	1.43	1.37
1	2M	207	PRO	C-N	5.30	1.41	1.33
1	2Q	20	LEU	N-CA	-5.30	1.40	1.46
1	2U	103	ASP	CA-C	-5.30	1.45	1.52
1	2X	59	VAL	CA-C	5.30	1.58	1.52
1	3c	117	TRP	C-O	-5.30	1.18	1.24
1	3r	193	ASN	C-O	-5.30	1.16	1.24
1	3C	30	LYS	N-CA	-5.30	1.39	1.46
1	3T	118	MET	CA-C	5.30	1.59	1.52
1	3V	195	ASN	CA-CB	5.30	1.61	1.53
1	4k	185	MET	CA-CB	5.30	1.61	1.53
1	4y	17	PRO	C-N	5.30	1.40	1.33
1	4R	46	GLY	C-N	5.30	1.40	1.33
1	4V	148	THR	CA-C	-5.30	1.46	1.52
1	4W	128	GLU	C-N	5.30	1.40	1.33
1	4X	104	ILE	C-O	-5.30	1.17	1.24
1	53	23	TRP	NE1-CE2	-5.30	1.31	1.37
1	5f	21	ASN	N-CA	-5.30	1.39	1.46
1	5f	131	LYS	C-O	-5.30	1.17	1.24
1	5h	138	LEU	C-N	5.30	1.40	1.33
1	5i	60	GLY	CA-C	-5.30	1.44	1.51
1	5m	43	LEU	C-N	-5.30	1.27	1.33
1	5n	77	ALA	CA-C	5.30	1.59	1.52
1	69	16	SER	CA-C	5.30	1.58	1.52
1	6f	71	GLU	CA-CB	5.30	1.61	1.53
1	6s	46	GLY	C-N	5.30	1.40	1.33
1	7c	204	ALA	C-N	5.30	1.40	1.33
1	7u	200	THR	N-CA	5.30	1.52	1.46
1	7F	204	ALA	C-N	5.30	1.41	1.33
1	7I	47	ALA	C-N	5.30	1.40	1.33
1	7J	219	GLN	C-N	5.30	1.41	1.33
1	7Q	182	LYS	CA-C	5.30	1.59	1.52
1	7V	202	LEU	C-N	5.30	1.40	1.33
1	8n	10	MET	CA-C	5.30	1.59	1.52
1	8D	209	ALA	C-N	5.30	1.40	1.33
1	96	89	GLY	CA-C	-5.30	1.44	1.51
1	9e	132	ARG	NE-CZ	-5.30	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9h	67	GLN	C-O	5.30	1.30	1.24
1	9k	23	TRP	CA-C	5.30	1.59	1.52
1	9r	182	LYS	C-N	5.30	1.40	1.33
1	9x	84	HIS	ND1-CE1	5.30	1.37	1.32
1	9y	149	SER	CA-CB	5.30	1.61	1.53
1	9I	125	PRO	CA-CB	5.30	1.61	1.53
1	9I	195	ASN	C-N	5.30	1.39	1.34
1	a0	132	ARG	CA-CB	5.30	1.62	1.53
1	ab	17	PRO	CA-C	5.30	1.59	1.52
1	am	221	VAL	CA-C	-5.30	1.46	1.52
1	an	160	PRO	C-N	5.30	1.40	1.33
1	at	100	ARG	CD-NE	5.30	1.53	1.46
1	b1	106	GLY	N-CA	5.30	1.52	1.45
1	b1	136	LEU	C-N	5.30	1.40	1.33
1	bd	65	ALA	CA-C	5.30	1.59	1.52
1	17	9	GLN	CA-CB	5.30	1.61	1.53
1	bo	230	VAL	C-O	5.30	1.29	1.24
1	bH	80	TRP	NE1-CE2	-5.30	1.31	1.37
1	bH	227	LYS	CA-CB	5.30	1.61	1.53
1	bO	151	LEU	C-N	5.30	1.41	1.33
1	bS	189	LEU	CA-C	5.30	1.59	1.52
1	ct	142	VAL	CA-C	-5.30	1.46	1.52
1	cu	84	HIS	N-CA	-5.30	1.38	1.46
1	cu	176	GLN	CA-C	-5.30	1.45	1.52
1	1g	83	LEU	N-CA	-5.30	1.40	1.46
1	cP	48	THR	N-CA	5.30	1.53	1.45
1	cS	63	GLN	CA-CB	5.30	1.61	1.53
1	dz	80	TRP	N-CA	-5.30	1.40	1.46
1	ea	219	GLN	CA-C	5.30	1.59	1.52
1	eK	42	ALA	N-CA	-5.30	1.40	1.46
1	eL	2	ILE	N-CA	-5.30	1.39	1.46
1	f4	73	ILE	C-N	5.30	1.40	1.33
1	fl	42	ALA	C-N	5.30	1.41	1.33
1	1x	1	PRO	N-CA	5.30	1.55	1.47
1	fx	125	PRO	CA-C	5.30	1.58	1.53
1	g0	75	GLU	N-CA	-5.30	1.39	1.46
1	g	225	GLY	N-CA	5.30	1.52	1.45
1	1	75	GLU	C-N	5.30	1.41	1.33
1	1	183	ASN	CA-CB	5.30	1.61	1.53
1	o	59	VAL	CA-CB	-5.30	1.47	1.54
1	p	208	ALA	C-N	5.30	1.40	1.33
1	x	128	GLU	C-N	5.30	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	W	82	ARG	CD-NE	5.30	1.53	1.46
1	5	8	GLY	C-N	5.30	1.40	1.33
1	5	80	TRP	CD2-CE3	5.30	1.48	1.40
1	gp	196	PRO	CA-C	5.30	1.59	1.52
1	gw	80	TRP	N-CA	-5.30	1.39	1.46
1	i0	87	HIS	ND1-CE1	5.30	1.37	1.32
1	in	178	SER	CA-C	-5.30	1.46	1.52
1	ir	110	THR	C-O	-5.30	1.17	1.23
1	iz	26	VAL	CA-C	-5.30	1.46	1.52
1	jw	103	ASP	CA-CB	5.30	1.61	1.53
1	jx	7	GLN	CA-CB	5.30	1.62	1.53
1	jA	7	GLN	CA-CB	5.30	1.61	1.53
1	jD	113	GLU	CA-C	-5.30	1.46	1.52
1	jD	120	HIS	CG-CD2	-5.30	1.30	1.35
1	jQ	22	ALA	CA-C	5.30	1.59	1.52
1	k9	5	ASN	CA-CB	5.30	1.62	1.53
1	24	143	ARG	CD-NE	5.30	1.53	1.46
1	kQ	152	ASP	N-CA	5.30	1.52	1.46
1	ls	101	GLY	C-N	5.30	1.40	1.33
1	lB	41	SER	CA-C	-5.30	1.45	1.52
1	lK	85	PRO	CA-C	-5.30	1.46	1.52
1	2h	165	VAL	C-N	5.30	1.40	1.33
1	34	162	ARG	CD-NE	5.30	1.53	1.46
1	3d	42	ALA	N-CA	-5.30	1.40	1.46
1	3G	72	THR	CA-C	5.30	1.59	1.52
1	4b	132	ARG	C-N	5.30	1.40	1.33
1	4O	170	LYS	CA-C	5.30	1.59	1.52
1	54	221	VAL	CA-CB	5.30	1.61	1.54
1	5C	101	GLY	N-CA	5.30	1.52	1.45
1	5K	73	ILE	CA-CB	-5.30	1.47	1.54
1	6p	30	LYS	C-N	5.30	1.39	1.33
1	7u	100	ARG	N-CA	5.30	1.52	1.45
1	7P	29	GLU	CA-C	-5.30	1.45	1.52
1	86	210	THR	C-O	-5.30	1.17	1.23
1	8G	31	ALA	C-O	-5.30	1.17	1.24
1	8T	123	PRO	CA-CB	-5.30	1.47	1.53
1	8W	173	ARG	CD-NE	5.30	1.53	1.46
1	8X	89	GLY	C-N	-5.30	1.26	1.33
1	9s	49	PRO	N-CA	-5.30	1.40	1.47
1	9H	118	MET	CA-CB	5.30	1.62	1.53
1	9U	131	LYS	C-N	5.30	1.40	1.33
1	a9	181	VAL	CA-CB	5.30	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aC	17	PRO	CA-C	5.30	1.60	1.52
1	bn	32	PHE	CA-C	5.30	1.59	1.52
1	cv	2	ILE	C-N	5.30	1.40	1.33
1	cz	131	LYS	CA-C	5.30	1.59	1.52
1	d2	212	GLU	N-CA	5.30	1.52	1.46
1	dK	24	VAL	CA-C	5.30	1.59	1.52
1	1o	57	ASN	CA-CB	5.30	1.62	1.53
1	e5	126	VAL	C-N	5.30	1.40	1.33
1	e8	136	LEU	N-CA	5.30	1.52	1.46
1	1p	14	ALA	CA-C	5.30	1.59	1.52
1	el	73	ILE	N-CA	-5.30	1.40	1.46
1	eA	97	ARG	CD-NE	5.30	1.53	1.46
1	eO	29	GLU	N-CA	-5.30	1.40	1.46
1	fe	212	GLU	C-O	-5.30	1.18	1.24
1	fj	193	ASN	CA-CB	5.30	1.62	1.53
1	fo	138	LEU	CB-CG	5.30	1.64	1.53
1	1z	152	ASP	C-N	5.30	1.38	1.33
1	fW	147	PRO	CA-C	-5.30	1.45	1.52
1	P	10	MET	CA-CB	5.30	1.61	1.53
1	X	17	PRO	C-N	5.30	1.41	1.33
1	X	58	THR	CA-C	-5.30	1.46	1.53
1	gj	87	HIS	CE1-NE2	5.30	1.37	1.32
1	1D	42	ALA	CA-CB	5.30	1.61	1.53
1	gB	190	LEU	N-CA	5.30	1.52	1.46
1	h7	100	ARG	C-O	-5.30	1.17	1.23
1	hn	96	MET	CA-CB	5.30	1.62	1.53
1	hY	96	MET	CA-CB	5.30	1.63	1.53
1	i9	47	ALA	N-CA	-5.30	1.39	1.46
1	if	25	LYS	CA-C	5.30	1.59	1.52
1	ij	70	LYS	C-N	5.30	1.41	1.33
1	iv	21	ASN	C-N	5.30	1.40	1.33
1	iA	120	HIS	CB-CG	-5.30	1.42	1.50
1	iE	31	ALA	CA-CB	5.30	1.62	1.53
1	j3	6	LEU	CA-C	-5.30	1.46	1.53
1	j5	135	ILE	C-N	5.30	1.41	1.33
1	jp	120	HIS	CD2-NE2	5.30	1.43	1.37
1	1W	42	ALA	CA-CB	5.30	1.61	1.53
1	jZ	88	ALA	C-O	-5.30	1.17	1.23
1	kF	51	ASP	CA-CB	5.30	1.61	1.53
1	kL	144	MET	C-N	5.30	1.40	1.33
1	kU	62	HIS	CA-C	5.30	1.59	1.52
1	l5	13	GLN	CA-C	5.30	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lm	12	HIS	CB-CG	-5.30	1.42	1.50
1	lw	128	GLU	N-CA	5.30	1.52	1.46
1	lR	114	GLN	N-CA	-5.30	1.40	1.46
1	2f	134	ILE	CA-CB	-5.30	1.48	1.54
1	2y	77	ALA	CA-CB	5.30	1.61	1.53
1	2E	19	THR	C-O	-5.30	1.17	1.24
1	2H	6	LEU	C-N	5.30	1.41	1.33
1	2H	82	ARG	CA-CB	5.30	1.61	1.53
1	2O	39	MET	C-N	5.30	1.41	1.33
1	3e	162	ARG	CD-NE	5.30	1.53	1.46
1	3q	75	GLU	C-O	-5.30	1.18	1.24
1	3y	92	GLU	C-N	-5.30	1.27	1.33
1	3y	139	ASN	CB-CG	5.30	1.65	1.52
1	3A	176	GLN	CA-C	5.30	1.59	1.52
1	3E	164	TYR	CA-C	5.30	1.59	1.52
1	3L	96	MET	C-N	5.30	1.40	1.33
1	3V	228	ALA	N-CA	5.30	1.52	1.46
1	3W	19	THR	N-CA	5.30	1.52	1.46
1	3Y	149	SER	CA-CB	5.30	1.62	1.53
1	4e	167	ARG	CA-CB	5.30	1.61	1.53
1	4v	195	ASN	CA-CB	5.30	1.61	1.53
1	5m	227	LYS	CA-CB	5.30	1.64	1.53
1	5M	127	GLY	N-CA	-5.30	1.39	1.45
1	5R	115	ILE	N-CA	-5.30	1.40	1.46
1	5T	209	ALA	CA-C	5.30	1.59	1.52
1	5X	145	TYR	CA-C	-5.30	1.44	1.52
1	5Z	115	ILE	N-CA	-5.30	1.40	1.46
1	62	1	PRO	N-CD	5.30	1.55	1.47
1	65	5	ASN	CA-C	5.30	1.59	1.52
1	6H	21	ASN	CA-CB	5.30	1.62	1.53
1	6H	149	SER	CA-CB	5.30	1.62	1.53
1	7d	6	LEU	CB-CG	5.30	1.64	1.53
1	7l	222	GLY	N-CA	5.30	1.52	1.45
1	7m	8	GLY	N-CA	5.30	1.50	1.45
1	7y	170	LYS	C-O	-5.30	1.18	1.24
1	7J	180	GLU	CA-C	-5.30	1.46	1.52
1	7K	120	HIS	CG-ND1	-5.30	1.32	1.38
1	7P	127	GLY	N-CA	5.30	1.53	1.45
1	7U	61	GLY	C-O	5.30	1.29	1.23
1	7W	219	GLN	CA-C	5.30	1.60	1.52
1	7Y	65	ALA	C-O	-5.30	1.18	1.24
1	86	162	ARG	CD-NE	5.30	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8o	186	THR	CA-C	5.30	1.59	1.52
1	9i	141	ILE	CA-C	-5.30	1.46	1.52
1	9N	199	LYS	CA-CB	5.30	1.61	1.53
1	ad	74	ASN	CA-CB	5.30	1.61	1.53
1	ah	113	GLU	C-N	-5.30	1.27	1.33
1	ai	176	GLN	CA-CB	5.30	1.62	1.53
1	aq	86	VAL	C-N	5.30	1.40	1.33
1	au	135	ILE	N-CA	5.30	1.52	1.46
1	aK	28	GLU	N-CA	5.30	1.52	1.46
1	aN	3	VAL	N-CA	5.30	1.52	1.46
1	aX	225	GLY	N-CA	5.30	1.52	1.45
1	ba	37	ILE	N-CA	-5.30	1.40	1.46
1	br	181	VAL	CA-C	-5.30	1.45	1.53
1	18	179	GLN	CA-CB	5.30	1.61	1.53
1	bs	190	LEU	CA-C	5.30	1.59	1.52
1	bv	19	THR	C-N	5.30	1.40	1.33
1	bK	34	PRO	N-CA	-5.30	1.40	1.47
1	bL	181	VAL	CA-CB	-5.30	1.48	1.54
1	bM	90	PRO	CA-C	5.30	1.59	1.52
1	ca	137	GLY	C-N	5.30	1.41	1.33
1	ca	192	GLN	C-N	5.30	1.41	1.33
1	cg	117	TRP	C-N	5.30	1.40	1.33
1	1e	178	SER	CA-C	5.30	1.59	1.52
1	d6	49	PRO	N-CA	5.30	1.54	1.47
1	d9	191	VAL	CA-C	5.30	1.59	1.52
1	di	179	GLN	CA-CB	5.30	1.62	1.53
1	1k	173	ARG	NE-CZ	-5.30	1.27	1.33
1	dH	202	LEU	CA-C	5.30	1.60	1.52
1	dJ	87	HIS	CB-CG	-5.30	1.42	1.50
1	ed	4	GLN	C-N	5.30	1.41	1.33
1	eg	153	ILE	CA-C	5.30	1.60	1.52
1	ep	206	GLY	N-CA	5.30	1.51	1.44
1	et	69	LEU	N-CA	-5.30	1.40	1.46
1	ev	229	ARG	CZ-NH2	-5.30	1.26	1.33
1	eE	201	ILE	CA-CB	-5.30	1.47	1.54
1	eN	92	GLU	C-N	5.30	1.40	1.33
1	eN	210	THR	CA-CB	-5.30	1.44	1.53
1	eO	135	ILE	CA-C	5.30	1.59	1.52
1	1t	33	SER	N-CA	-5.30	1.38	1.46
1	eR	198	CYS	C-O	-5.30	1.18	1.24
1	eX	59	VAL	CA-C	-5.30	1.46	1.52
1	0	214	MET	C-O	-5.30	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j	43	LEU	CB-CG	5.30	1.64	1.53
1	s	71	GLU	C-N	5.30	1.41	1.33
1	K	23	TRP	CA-CB	5.30	1.62	1.53
1	K	176	GLN	C-N	5.30	1.40	1.33
1	V	96	MET	C-N	5.30	1.40	1.33
1	7	124	ILE	N-CA	5.30	1.50	1.46
1	gN	96	MET	C-N	5.30	1.40	1.33
1	gO	97	ARG	CD-NE	5.30	1.53	1.46
1	gQ	117	TRP	NE1-CE2	-5.30	1.31	1.37
1	gV	11	VAL	CA-CB	-5.30	1.47	1.54
1	gV	180	GLU	C-N	5.30	1.40	1.33
1	gZ	226	HIS	CE1-NE2	5.30	1.37	1.32
1	h8	11	VAL	C-N	-5.30	1.26	1.33
1	hc	224	PRO	CA-CB	-5.30	1.47	1.53
1	hv	186	THR	CA-C	-5.30	1.46	1.52
1	hI	203	LYS	CA-CB	5.30	1.62	1.53
1	1M	112	GLN	CA-C	5.30	1.59	1.52
1	hU	103	ASP	C-O	-5.30	1.18	1.24
1	ih	196	PRO	C-N	5.30	1.41	1.33
1	ii	9	GLN	C-O	-5.30	1.17	1.24
1	iI	40	PHE	C-N	5.30	1.41	1.34
1	iI	170	LYS	N-CA	5.30	1.52	1.46
1	j0	152	ASP	CA-C	5.30	1.59	1.52
1	j5	32	PHE	C-O	-5.30	1.17	1.23
1	jz	40	PHE	CA-CB	5.30	1.61	1.53
1	jC	152	ASP	CA-CB	5.30	1.62	1.54
1	jJ	8	GLY	CA-C	5.30	1.58	1.51
1	jR	182	LYS	C-N	5.30	1.40	1.33
1	jS	159	GLU	CA-C	5.30	1.58	1.52
1	jT	128	GLU	CA-CB	5.30	1.61	1.53
1	jU	43	LEU	CA-C	5.30	1.59	1.52
1	jY	9	GLN	C-N	5.30	1.41	1.33
1	jY	24	VAL	CA-CB	-5.30	1.47	1.54
1	k4	28	GLU	C-O	-5.30	1.18	1.24
1	kg	225	GLY	C-N	5.30	1.40	1.33
1	kj	82	ARG	CD-NE	5.30	1.53	1.46
1	kk	179	GLN	CA-C	5.30	1.59	1.52
1	ko	53	ASN	C-N	5.30	1.40	1.33
1	ko	226	HIS	CB-CG	-5.30	1.42	1.50
1	kr	109	SER	N-CA	5.30	1.52	1.46
1	ks	69	LEU	C-N	5.30	1.40	1.33
1	ks	190	LEU	C-N	5.30	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	22	183	ASN	CA-C	5.30	1.59	1.52
1	ku	50	GLN	C-N	5.30	1.40	1.33
1	ky	217	ALA	N-CA	5.30	1.52	1.46
1	kF	206	GLY	C-N	-5.30	1.27	1.33
1	kQ	120	HIS	N-CA	5.30	1.52	1.45
1	kW	36	VAL	N-CA	5.30	1.53	1.46
1	l2	100	ARG	N-CA	5.30	1.52	1.45
1	ls	226	HIS	CB-CG	5.30	1.57	1.50
1	lz	71	GLU	CA-C	-5.30	1.45	1.52
1	lz	72	THR	C-N	5.30	1.40	1.33
1	lJ	141	ILE	N-CA	-5.30	1.40	1.46
1	2a	87	HIS	N-CA	-5.30	1.38	1.45
1	2n	227	LYS	C-N	5.30	1.41	1.33
1	30	97	ARG	CD-NE	5.30	1.53	1.46
1	3j	195	ASN	CA-C	5.30	1.58	1.53
1	3T	58	THR	C-N	5.30	1.39	1.33
1	42	16	SER	CA-C	-5.30	1.47	1.53
1	49	112	GLN	CA-C	5.30	1.59	1.52
1	4e	32	PHE	C-N	5.30	1.39	1.33
1	4z	192	GLN	C-N	5.30	1.41	1.33
1	4J	124	ILE	CA-CB	5.30	1.59	1.53
1	4X	179	GLN	CA-C	-5.30	1.45	1.52
1	4Z	123	PRO	CA-CB	-5.30	1.46	1.53
1	50	45	GLU	CA-CB	5.30	1.60	1.53
1	5l	6	LEU	N-CA	5.30	1.53	1.46
1	5n	145	TYR	CA-CB	5.30	1.61	1.53
1	5q	183	ASN	N-CA	5.30	1.52	1.46
1	5C	88	ALA	CA-C	-5.30	1.46	1.52
1	5D	53	ASN	CA-C	-5.30	1.46	1.52
1	5F	113	GLU	CA-C	-5.30	1.45	1.52
1	5R	78	ALA	N-CA	-5.30	1.39	1.46
1	5Y	47	ALA	CA-C	-5.30	1.46	1.52
1	6g	8	GLY	CA-C	5.30	1.59	1.51
1	6n	13	GLN	CA-C	-5.30	1.46	1.52
1	6t	46	GLY	N-CA	5.30	1.52	1.45
1	6H	135	ILE	CA-C	5.30	1.59	1.52
1	6I	163	ASP	C-N	-5.30	1.26	1.33
1	6N	97	ARG	CA-C	5.30	1.59	1.53
1	6Z	13	GLN	CA-C	-5.30	1.46	1.52
1	6Z	92	GLU	CA-C	5.30	1.59	1.52
1	70	114	GLN	C-N	5.30	1.40	1.33
1	7t	138	LEU	CA-CB	5.30	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7u	166	ASP	CA-CB	5.30	1.61	1.53
1	7w	134	ILE	C-N	5.30	1.40	1.33
1	7M	103	ASP	CA-CB	5.30	1.61	1.53
1	80	127	GLY	CA-C	-5.30	1.44	1.51
1	88	23	TRP	NE1-CE2	-5.30	1.31	1.37
1	8e	11	VAL	N-CA	-5.30	1.40	1.46
1	8w	25	LYS	C-N	5.30	1.40	1.33
1	8K	84	HIS	CE1-NE2	-5.30	1.27	1.32
1	8W	12	HIS	CD2-NE2	-5.30	1.32	1.37
1	9c	30	LYS	CA-CB	5.30	1.60	1.53
1	9d	25	LYS	N-CA	-5.30	1.39	1.46
1	9l	221	VAL	N-CA	-5.30	1.39	1.46
1	9D	154	ARG	CZ-NH2	-5.30	1.26	1.33
1	9X	13	GLN	CA-C	5.30	1.59	1.52
1	a6	17	PRO	N-CD	-5.30	1.40	1.47
1	ao	215	MET	CA-CB	5.30	1.63	1.53
1	aB	7	GLN	CA-C	5.30	1.59	1.52
1	aT	67	GLN	N-CA	-5.30	1.39	1.46
1	bf	42	ALA	CA-C	5.30	1.59	1.52
1	bv	229	ARG	CA-C	-5.30	1.45	1.52
1	bZ	87	HIS	CE1-NE2	5.30	1.37	1.32
1	c7	154	ARG	CA-C	-5.30	1.46	1.52
1	cd	84	HIS	ND1-CE1	5.30	1.37	1.32
1	cq	201	ILE	CA-CB	5.30	1.60	1.54
1	cx	20	LEU	CA-C	-5.30	1.45	1.52
1	cF	120	HIS	CG-ND1	-5.30	1.32	1.38
1	1g	103	ASP	CA-C	5.30	1.59	1.52
1	cM	120	HIS	ND1-CE1	5.30	1.37	1.32
1	cW	54	THR	CB-OG1	-5.30	1.35	1.43
1	d3	16	SER	C-N	5.30	1.40	1.34
1	d6	205	LEU	CA-C	5.30	1.59	1.52
1	d8	24	VAL	CA-C	-5.30	1.46	1.52
1	d9	164	TYR	CA-CB	5.30	1.61	1.53
1	df	75	GLU	CA-C	5.30	1.59	1.52
1	dr	172	LEU	C-N	5.30	1.41	1.33
1	dr	178	SER	CA-C	-5.30	1.46	1.52
1	du	196	PRO	C-N	5.30	1.40	1.33
1	dF	86	VAL	C-N	5.30	1.41	1.33
1	dQ	193	ASN	CA-CB	5.30	1.61	1.53
1	dR	74	ASN	CA-C	-5.30	1.46	1.52
1	1n	122	PRO	CA-CB	5.30	1.63	1.53
1	dZ	120	HIS	CA-CB	5.30	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e5	37	ILE	CA-C	-5.30	1.47	1.52
1	e7	46	GLY	C-O	-5.30	1.16	1.23
1	ez	107	THR	CA-C	-5.30	1.46	1.52
1	eH	7	GLN	CA-C	5.30	1.59	1.52
1	eJ	90	PRO	CA-CB	5.30	1.60	1.53
1	1t	229	ARG	N-CA	5.30	1.52	1.46
1	eT	111	LEU	CA-CB	5.30	1.61	1.53
1	fp	8	GLY	C-N	5.30	1.42	1.33
1	fu	61	GLY	N-CA	5.30	1.51	1.45
1	fL	210	THR	N-CA	5.30	1.52	1.46
1	fM	58	THR	CB-OG1	-5.30	1.35	1.43
1	fZ	185	MET	C-N	-5.30	1.26	1.33
1	x	226	HIS	CA-CB	5.30	1.61	1.53
1	P	93	PRO	N-CA	5.30	1.54	1.47
1	Q	65	ALA	CA-C	-5.30	1.46	1.52
1	gx	22	ALA	CA-C	5.30	1.59	1.52
1	gW	43	LEU	CA-C	5.30	1.59	1.52
1	gW	124	ILE	CA-CB	-5.30	1.47	1.54
1	hL	219	GLN	C-N	5.30	1.40	1.33
1	ib	5	ASN	C-N	5.30	1.41	1.33
1	ic	67	GLN	C-N	5.30	1.41	1.33
1	iy	166	ASP	CA-CB	5.30	1.61	1.53
1	jy	227	LYS	C-N	5.30	1.40	1.33
1	jI	7	GLN	C-O	-5.30	1.17	1.24
1	k6	81	ASP	CA-C	5.30	1.59	1.52
1	k6	155	GLN	N-CA	-5.30	1.39	1.46
1	lg	70	LYS	N-CA	-5.30	1.40	1.46
1	2f	178	SER	CA-C	-5.30	1.46	1.53
1	32	219	GLN	N-CA	-5.30	1.39	1.46
1	43	226	HIS	ND1-CE1	5.30	1.37	1.32
1	4y	2	ILE	CA-C	5.30	1.58	1.52
1	4G	222	GLY	CA-C	-5.30	1.44	1.52
1	4H	212	GLU	CA-CB	5.30	1.61	1.53
1	5D	225	GLY	N-CA	-5.30	1.39	1.45
1	6u	89	GLY	C-O	-5.30	1.16	1.24
1	6O	212	GLU	C-N	5.30	1.40	1.33
1	79	56	LEU	CA-C	5.30	1.59	1.52
1	7j	74	ASN	CA-CB	5.30	1.61	1.53
1	7w	33	SER	CA-CB	5.30	1.61	1.53
1	7C	110	THR	N-CA	-5.30	1.39	1.45
1	7G	167	ARG	C-N	5.30	1.40	1.33
1	7J	136	LEU	CA-C	5.30	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8i	21	ASN	N-CA	5.30	1.53	1.46
1	8k	8	GLY	N-CA	5.30	1.50	1.45
1	8M	65	ALA	C-N	5.30	1.40	1.33
1	9c	143	ARG	N-CA	-5.30	1.40	1.46
1	9C	209	ALA	CA-CB	5.30	1.62	1.53
1	ab	118	MET	C-N	5.30	1.41	1.33
1	ag	99	PRO	CA-C	5.30	1.59	1.52
1	aL	38	PRO	N-CD	-5.30	1.40	1.47
1	aL	193	ASN	C-O	-5.30	1.16	1.23
1	19	105	ALA	C-N	5.30	1.39	1.33
1	1e	10	MET	N-CA	5.30	1.52	1.46
1	1i	211	LEU	N-CA	5.30	1.53	1.46
1	dk	170	LYS	C-N	5.30	1.41	1.34
1	1m	154	ARG	CD-NE	5.30	1.53	1.46
1	ei	211	LEU	CA-CB	5.30	1.61	1.53
1	er	2	ILE	N-CA	5.30	1.52	1.46
1	eA	165	VAL	CA-CB	-5.30	1.48	1.54
1	eK	161	PHE	N-CA	5.30	1.52	1.46
1	fH	192	GLN	CA-C	5.30	1.59	1.52
1	s	199	LYS	N-CA	-5.30	1.39	1.46
1	y	40	PHE	N-CA	5.30	1.52	1.46
1	U	179	GLN	C-O	5.30	1.30	1.24
1	1D	123	PRO	N-CA	-5.30	1.41	1.47
1	gT	61	GLY	N-CA	-5.30	1.39	1.45
1	gU	8	GLY	CA-C	-5.30	1.45	1.52
1	gW	18	ARG	NE-CZ	-5.30	1.27	1.33
1	gW	73	ILE	C-N	5.30	1.40	1.33
1	gY	11	VAL	C-O	-5.30	1.18	1.24
1	hg	130	TYR	CA-CB	5.30	1.61	1.53
1	hE	138	LEU	CA-C	5.30	1.59	1.52
1	hK	12	HIS	CD2-NE2	5.30	1.43	1.37
1	hO	64	ALA	CA-C	-5.30	1.45	1.52
1	hP	125	PRO	N-CA	-5.30	1.43	1.47
1	i6	180	GLU	C-O	5.30	1.30	1.24
1	i8	99	PRO	C-N	5.30	1.41	1.33
1	ig	37	ILE	CA-CB	-5.30	1.51	1.54
1	ij	92	GLU	CA-C	-5.30	1.46	1.52
1	in	66	MET	CG-SD	-5.30	1.67	1.80
1	is	26	VAL	C-N	5.30	1.40	1.33
1	iI	42	ALA	N-CA	5.30	1.52	1.46
1	iV	193	ASN	CA-C	5.30	1.60	1.52
1	iX	105	ALA	CA-C	-5.30	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j2	14	ALA	CA-C	-5.30	1.46	1.52
1	jb	27	VAL	CA-C	-5.30	1.46	1.52
1	jd	69	LEU	CA-CB	5.30	1.61	1.53
1	jr	25	LYS	CA-CB	5.30	1.62	1.53
1	1X	226	HIS	ND1-CE1	5.30	1.37	1.32
1	jN	84	HIS	ND1-CE1	5.30	1.37	1.32
1	jW	18	ARG	CD-NE	5.30	1.53	1.46
1	k0	65	ALA	CA-C	5.30	1.59	1.52
1	k5	169	TYR	CA-C	-5.30	1.45	1.52
1	kz	132	ARG	CA-CB	5.30	1.61	1.53
1	kP	149	SER	CA-C	-5.30	1.46	1.52
1	kY	40	PHE	C-N	5.30	1.40	1.33
1	l1	45	GLU	CA-CB	5.30	1.60	1.53
1	la	21	ASN	C-O	-5.30	1.18	1.24
1	la	95	GLN	C-N	5.30	1.40	1.33
1	ll	202	LEU	C-O	-5.30	1.17	1.24
1	lQ	71	GLU	CA-C	5.30	1.59	1.52
1	lQ	138	LEU	CA-C	-5.30	1.46	1.52
1	2y	114	GLN	N-CA	-5.30	1.40	1.46
1	2Q	100	ARG	CA-CB	5.30	1.61	1.53
1	2V	222	GLY	C-N	5.30	1.41	1.33
1	30	81	ASP	C-O	5.30	1.31	1.24
1	3F	207	PRO	CA-CB	5.30	1.61	1.53
1	3H	78	ALA	C-N	5.30	1.40	1.33
1	4h	229	ARG	CA-C	5.30	1.59	1.52
1	5m	172	LEU	CA-CB	5.30	1.61	1.53
1	5u	132	ARG	N-CA	5.30	1.52	1.46
1	5w	102	SER	C-N	5.30	1.40	1.33
1	5F	202	LEU	CA-CB	5.30	1.61	1.53
1	5N	101	GLY	CA-C	-5.30	1.46	1.52
1	5N	218	CYS	CA-CB	5.30	1.62	1.53
1	66	155	GLN	CA-C	-5.30	1.45	1.52
1	6f	104	ILE	CB-CG1	5.30	1.64	1.53
1	6n	218	CYS	CA-CB	5.30	1.62	1.53
1	7f	121	ASN	CA-CB	5.30	1.67	1.54
1	7j	64	ALA	C-N	5.30	1.40	1.33
1	7C	52	LEU	CA-C	-5.30	1.45	1.52
1	7K	140	LYS	C-N	5.30	1.40	1.33
1	7U	201	ILE	CA-CB	5.30	1.61	1.54
1	83	152	ASP	CA-C	5.30	1.60	1.52
1	8d	22	ALA	C-N	5.30	1.40	1.33
1	8g	123	PRO	CA-CB	5.30	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8F	145	TYR	CA-CB	5.30	1.60	1.53
1	8V	20	LEU	C-N	5.30	1.40	1.33
1	8Y	84	HIS	CA-CB	5.30	1.59	1.53
1	9b	214	MET	N-CA	-5.30	1.39	1.46
1	9f	49	PRO	CA-C	-5.30	1.44	1.52
1	9l	96	MET	N-CA	5.30	1.52	1.46
1	9n	120	HIS	CB-CG	-5.30	1.42	1.50
1	9o	92	GLU	CA-CB	5.30	1.62	1.53
1	9z	108	THR	C-N	5.30	1.40	1.33
1	9Q	73	ILE	C-N	5.30	1.41	1.34
1	ab	70	LYS	C-N	5.30	1.41	1.33
1	ah	128	GLU	N-CA	-5.30	1.40	1.46
1	ao	40	PHE	CA-C	5.30	1.59	1.52
1	aE	53	ASN	CA-CB	5.30	1.61	1.53
1	aE	124	ILE	CA-CB	-5.30	1.48	1.53
1	aK	10	MET	CA-CB	5.30	1.61	1.53
1	aO	81	ASP	CA-CB	5.30	1.61	1.53
1	bz	168	PHE	CA-CB	5.30	1.61	1.53
1	bJ	130	TYR	CA-CB	5.30	1.61	1.53
1	bP	143	ARG	NE-CZ	5.30	1.38	1.33
1	1b	181	VAL	C-O	-5.30	1.18	1.24
1	cc	132	ARG	CZ-NH2	-5.30	1.26	1.33
1	cv	54	THR	CA-C	5.30	1.59	1.52
1	cP	54	THR	N-CA	5.30	1.52	1.46
1	d6	90	PRO	CA-CB	-5.30	1.46	1.53
1	di	153	ILE	N-CA	5.30	1.52	1.46
1	dB	182	LYS	CA-CB	-5.30	1.45	1.53
1	e2	11	VAL	C-N	5.30	1.41	1.33
1	eg	81	ASP	N-CA	-5.30	1.39	1.46
1	en	76	GLU	CA-C	5.30	1.59	1.52
1	ex	62	HIS	CB-CG	5.30	1.57	1.50
1	eY	170	LYS	N-CA	5.30	1.52	1.46
1	f0	226	HIS	CA-CB	5.30	1.61	1.53
1	f1	85	PRO	C-O	-5.30	1.17	1.24
1	f7	12	HIS	ND1-CE1	5.30	1.37	1.32
1	ff	229	ARG	CD-NE	5.30	1.53	1.46
1	fo	231	LEU	CB-CG	5.30	1.64	1.53
1	fy	216	THR	N-CA	-5.30	1.40	1.46
1	fD	27	VAL	C-N	5.30	1.40	1.33
1	g4	132	ARG	C-N	5.30	1.41	1.34
1	h	150	ILE	C-N	5.30	1.41	1.33
1	M	176	GLN	N-CA	5.30	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	T	118	MET	C-O	-5.30	1.16	1.23
1	gd	172	LEU	CA-CB	5.29	1.61	1.53
1	h8	117	TRP	NE1-CE2	5.29	1.43	1.37
1	1J	231	LEU	C-O	5.29	1.34	1.23
1	hQ	223	GLY	C-N	5.29	1.40	1.33
1	i4	76	GLU	C-N	5.29	1.40	1.33
1	ji	209	ALA	CA-CB	5.29	1.60	1.53
1	1X	152	ASP	CA-C	5.29	1.60	1.52
1	jM	136	LEU	C-N	5.29	1.40	1.33
1	k9	73	ILE	CA-CB	-5.29	1.48	1.54
1	23	43	LEU	CA-CB	5.29	1.62	1.53
1	kE	184	TRP	C-O	-5.29	1.18	1.24
1	lc	164	TYR	N-CA	-5.29	1.40	1.46
1	3k	214	MET	N-CA	5.29	1.53	1.46
1	3P	141	ILE	C-O	5.29	1.30	1.24
1	4x	15	ILE	CA-C	5.29	1.59	1.52
1	4T	187	GLU	CA-CB	5.29	1.61	1.53
1	5C	167	ARG	C-N	5.29	1.41	1.33
1	66	84	HIS	ND1-CE1	5.29	1.37	1.32
1	76	163	ASP	CA-C	5.29	1.59	1.52
1	8g	154	ARG	C-N	5.29	1.40	1.33
1	8x	214	MET	CA-C	5.29	1.59	1.52
1	8T	228	ALA	C-N	5.29	1.40	1.33
1	8Z	11	VAL	N-CA	-5.29	1.40	1.46
1	9q	173	ARG	NE-CZ	-5.29	1.27	1.33
1	9T	64	ALA	N-CA	-5.29	1.40	1.46
1	11	122	PRO	N-CD	5.29	1.55	1.47
1	aC	91	ILE	CB-CG1	5.29	1.64	1.53
1	aG	89	GLY	CA-C	5.29	1.59	1.51
1	ba	216	THR	CA-CB	5.29	1.61	1.53
1	bq	154	ARG	CA-CB	5.29	1.63	1.53
1	bO	219	GLN	CA-CB	5.29	1.60	1.53
1	cu	169	TYR	C-N	5.29	1.40	1.33
1	dl	206	GLY	N-CA	5.29	1.51	1.44
1	dy	70	LYS	CA-CB	5.29	1.62	1.53
1	dQ	81	ASP	CA-C	5.29	1.59	1.52
1	eg	219	GLN	N-CA	-5.29	1.39	1.46
1	ev	71	GLU	CA-C	5.29	1.59	1.52
1	eX	173	ARG	NE-CZ	-5.29	1.27	1.33
1	fq	223	GLY	N-CA	5.29	1.51	1.44
1	fV	40	PHE	CA-CB	5.29	1.61	1.53
1	G	150	ILE	CA-CB	5.29	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	19	THR	N-CA	5.29	1.52	1.46
1	gd	210	THR	C-O	-5.29	1.16	1.23
1	gJ	224	PRO	CA-C	5.29	1.58	1.52
1	gL	125	PRO	C-N	5.29	1.40	1.34
1	he	65	ALA	N-CA	5.29	1.52	1.46
1	1I	68	MET	C-O	5.29	1.30	1.24
1	hI	74	ASN	CA-C	5.29	1.59	1.52
1	hP	190	LEU	C-N	5.29	1.39	1.33
1	hW	96	MET	CG-SD	5.29	1.94	1.80
1	i0	191	VAL	CA-C	-5.29	1.45	1.52
1	i2	32	PHE	CA-C	-5.29	1.46	1.53
1	ia	93	PRO	N-CA	5.29	1.53	1.47
1	if	149	SER	C-N	5.29	1.41	1.34
1	im	32	PHE	CA-C	-5.29	1.46	1.52
1	1P	135	ILE	CB-CG1	5.29	1.64	1.53
1	iB	82	ARG	CZ-NH2	-5.29	1.26	1.33
1	ja	20	LEU	CA-CB	-5.29	1.45	1.53
1	jc	199	LYS	C-N	5.29	1.40	1.33
1	k3	20	LEU	CA-C	-5.29	1.46	1.52
1	k4	129	ILE	CB-CG1	5.29	1.64	1.53
1	kb	142	VAL	CA-CB	-5.29	1.48	1.54
1	ks	228	ALA	CA-C	5.29	1.59	1.52
1	kv	162	ARG	CA-C	5.29	1.60	1.52
1	kM	41	SER	CA-CB	5.29	1.61	1.53
1	kW	145	TYR	N-CA	5.29	1.53	1.46
1	kY	207	PRO	C-N	5.29	1.40	1.33
1	lw	93	PRO	N-CD	5.29	1.55	1.47
1	lF	2	ILE	CA-C	5.29	1.59	1.52
1	2b	102	SER	C-O	-5.29	1.17	1.24
1	2e	174	ALA	N-CA	-5.29	1.40	1.46
1	2f	128	GLU	C-N	5.29	1.40	1.33
1	2v	161	PHE	CA-C	5.29	1.59	1.52
1	2G	2	ILE	C-N	5.29	1.40	1.33
1	2Y	81	ASP	CA-C	5.29	1.59	1.52
1	37	119	THR	CA-C	-5.29	1.45	1.52
1	3f	56	LEU	CA-CB	5.29	1.61	1.53
1	3k	227	LYS	N-CA	5.29	1.52	1.45
1	3q	43	LEU	CA-CB	5.29	1.63	1.53
1	3v	132	ARG	CZ-NH2	-5.29	1.26	1.33
1	3w	25	LYS	N-CA	-5.29	1.40	1.46
1	3M	84	HIS	ND1-CE1	5.29	1.37	1.32
1	44	177	ALA	C-N	5.29	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	49	162	ARG	C-N	5.29	1.41	1.33
1	4U	154	ARG	CD-NE	5.29	1.53	1.46
1	5g	87	HIS	CB-CG	-5.29	1.42	1.50
1	5h	22	ALA	CA-CB	5.29	1.62	1.53
1	5i	120	HIS	CD2-NE2	5.29	1.43	1.37
1	5s	12	HIS	ND1-CE1	5.29	1.37	1.32
1	6n	162	ARG	C-O	5.29	1.30	1.24
1	6q	168	PHE	CA-C	5.29	1.59	1.52
1	6C	110	THR	N-CA	5.29	1.52	1.45
1	6J	90	PRO	CA-C	5.29	1.58	1.52
1	6T	75	GLU	C-O	-5.29	1.18	1.24
1	7d	108	THR	CA-CB	5.29	1.62	1.54
1	7r	28	GLU	CA-C	-5.29	1.46	1.52
1	81	87	HIS	CB-CG	5.29	1.57	1.50
1	85	144	MET	C-N	5.29	1.41	1.33
1	8b	135	ILE	CA-CB	5.29	1.61	1.54
1	8c	49	PRO	N-CA	5.29	1.54	1.47
1	8r	229	ARG	CA-C	5.29	1.59	1.52
1	8P	179	GLN	N-CA	-5.29	1.40	1.46
1	91	83	LEU	CA-C	-5.29	1.45	1.52
1	96	12	HIS	CD2-NE2	-5.29	1.32	1.37
1	9a	175	GLU	N-CA	5.29	1.52	1.46
1	9b	87	HIS	CA-CB	5.29	1.61	1.53
1	9g	54	THR	CA-C	-5.29	1.45	1.52
1	9B	81	ASP	CA-C	5.29	1.59	1.52
1	Y	160	PRO	C-N	5.29	1.40	1.33
1	ah	104	ILE	CA-CB	-5.29	1.47	1.54
1	an	167	ARG	CA-CB	5.29	1.61	1.53
1	ap	131	LYS	C-N	5.29	1.41	1.33
1	aR	226	HIS	ND1-CE1	5.29	1.37	1.32
1	b0	2	ILE	C-O	-5.29	1.17	1.24
1	b8	87	HIS	CE1-NE2	5.29	1.37	1.32
1	bx	158	LYS	N-CA	-5.29	1.38	1.45
1	bF	44	SER	N-CA	5.29	1.53	1.46
1	bG	159	GLU	C-N	5.29	1.40	1.33
1	ck	114	GLN	C-N	5.29	1.40	1.33
1	cs	105	ALA	C-N	5.29	1.41	1.33
1	cs	135	ILE	C-N	5.29	1.41	1.33
1	cu	5	ASN	CA-CB	5.29	1.60	1.53
1	1g	80	TRP	N-CA	5.29	1.52	1.46
1	db	18	ARG	N-CA	-5.29	1.40	1.46
1	dc	138	LEU	N-CA	5.29	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	de	43	LEU	N-CA	-5.29	1.40	1.46
1	dg	133	TRP	CA-C	5.29	1.59	1.52
1	dy	97	ARG	CA-CB	5.29	1.61	1.53
1	dD	12	HIS	CB-CG	-5.29	1.42	1.50
1	dH	64	ALA	CA-CB	5.29	1.61	1.53
1	dX	228	ALA	CA-C	5.29	1.59	1.52
1	e9	161	PHE	N-CA	-5.29	1.40	1.46
1	ec	175	GLU	CA-CB	5.29	1.62	1.53
1	ep	17	PRO	N-CA	-5.29	1.40	1.47
1	ev	97	ARG	CD-NE	5.29	1.53	1.46
1	ex	166	ASP	CA-C	-5.29	1.46	1.52
1	ey	2	ILE	N-CA	-5.29	1.39	1.46
1	eH	223	GLY	N-CA	5.29	1.50	1.43
1	eM	131	LYS	CA-C	5.29	1.59	1.52
1	eS	164	TYR	C-N	5.29	1.40	1.33
1	f4	142	VAL	CA-C	5.29	1.59	1.52
1	f5	188	THR	CA-C	-5.29	1.45	1.52
1	fB	117	TRP	CD2-CE3	-5.29	1.31	1.40
1	fP	205	LEU	CA-C	-5.29	1.46	1.52
1	z	207	PRO	CA-CB	-5.29	1.46	1.53
1	gX	130	TYR	CA-C	5.29	1.59	1.52
1	gY	216	THR	CA-C	-5.29	1.45	1.52
1	hn	12	HIS	CA-CB	5.29	1.62	1.53
1	1J	95	GLN	N-CA	-5.29	1.39	1.46
1	hs	56	LEU	C-N	5.29	1.41	1.33
1	ht	140	LYS	CA-CB	5.29	1.61	1.53
1	hG	230	VAL	C-N	5.29	1.40	1.33
1	hJ	84	HIS	CB-CG	5.29	1.57	1.50
1	hP	189	LEU	CA-C	-5.29	1.47	1.52
1	ir	120	HIS	CA-C	-5.29	1.45	1.52
1	iu	198	CYS	CA-CB	5.29	1.61	1.53
1	iv	172	LEU	C-O	-5.29	1.18	1.24
1	iy	143	ARG	CA-C	5.29	1.59	1.52
1	iE	70	LYS	N-CA	-5.29	1.40	1.46
1	iO	70	LYS	CA-C	-5.29	1.46	1.52
1	1T	56	LEU	N-CA	-5.29	1.39	1.46
1	jA	75	GLU	C-N	5.29	1.40	1.33
1	jC	46	GLY	C-N	5.29	1.40	1.33
1	jF	69	LEU	CA-CB	5.29	1.61	1.53
1	kp	64	ALA	N-CA	5.29	1.52	1.46
1	kG	22	ALA	CA-C	5.29	1.59	1.52
1	kL	78	ALA	CA-CB	5.29	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l2	3	VAL	CA-CB	-5.29	1.47	1.54
1	l4	223	GLY	N-CA	5.29	1.51	1.44
1	lm	149	SER	C-O	-5.29	1.17	1.24
1	lr	168	PHE	CA-C	5.29	1.59	1.52
1	lH	176	GLN	CA-CB	5.29	1.61	1.53
1	lM	130	TYR	CA-CB	5.29	1.61	1.53
1	lP	208	ALA	C-N	5.29	1.41	1.33
1	2p	44	SER	C-N	5.29	1.41	1.33
1	2s	85	PRO	N-CD	-5.29	1.40	1.47
1	2J	147	PRO	CA-C	5.29	1.61	1.52
1	2K	99	PRO	CA-CB	5.29	1.60	1.53
1	2M	126	VAL	C-N	5.29	1.40	1.33
1	33	114	GLN	CA-C	-5.29	1.46	1.52
1	34	61	GLY	C-N	5.29	1.40	1.33
1	35	166	ASP	N-CA	-5.29	1.40	1.46
1	3n	60	GLY	N-CA	5.29	1.51	1.45
1	3N	207	PRO	CA-C	-5.29	1.45	1.52
1	3O	67	GLN	N-CA	-5.29	1.40	1.46
1	3X	225	GLY	CA-C	-5.29	1.46	1.52
1	49	194	ALA	CA-C	5.29	1.59	1.52
1	4v	119	THR	C-O	-5.29	1.17	1.24
1	4J	166	ASP	CA-CB	5.29	1.61	1.53
1	4O	222	GLY	C-O	5.29	1.31	1.23
1	4V	87	HIS	CB-CG	5.29	1.57	1.50
1	51	225	GLY	CA-C	5.29	1.59	1.51
1	5q	2	ILE	CA-C	5.29	1.58	1.52
1	5J	227	LYS	CA-C	5.29	1.60	1.53
1	5L	96	MET	N-CA	5.29	1.52	1.45
1	5U	14	ALA	N-CA	5.29	1.52	1.46
1	60	83	LEU	N-CA	-5.29	1.39	1.46
1	6e	11	VAL	N-CA	5.29	1.52	1.46
1	6e	177	ALA	N-CA	-5.29	1.39	1.46
1	6A	138	LEU	CA-CB	5.29	1.61	1.53
1	7g	135	ILE	CA-CB	5.29	1.60	1.54
1	7F	187	GLU	CA-CB	5.29	1.61	1.53
1	7J	37	ILE	CA-CB	5.29	1.57	1.54
1	7O	48	THR	C-N	-5.29	1.27	1.33
1	7X	227	LYS	CA-C	5.29	1.59	1.52
1	85	162	ARG	C-N	5.29	1.40	1.33
1	8o	132	ARG	CA-C	-5.29	1.46	1.52
1	8G	64	ALA	CA-C	5.29	1.59	1.52
1	8X	130	TYR	CG-CD1	5.29	1.50	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	97	36	VAL	N-CA	5.29	1.52	1.46
1	9d	146	SER	CA-CB	5.29	1.61	1.53
1	9n	134	ILE	CB-CG1	5.29	1.64	1.53
1	11	132	ARG	CD-NE	5.29	1.53	1.46
1	aw	139	ASN	C-N	5.29	1.40	1.33
1	aX	63	GLN	C-N	5.29	1.41	1.33
1	b4	59	VAL	C-O	-5.29	1.17	1.24
1	bb	144	MET	N-CA	5.29	1.53	1.46
1	by	95	GLN	C-N	5.29	1.41	1.33
1	bA	76	GLU	CA-CB	5.29	1.61	1.53
1	c1	210	THR	C-N	5.29	1.41	1.34
1	c4	26	VAL	CA-CB	5.29	1.60	1.54
1	c6	116	GLY	N-CA	5.29	1.52	1.45
1	c8	43	LEU	CA-CB	5.29	1.62	1.53
1	cC	96	MET	CA-C	5.29	1.58	1.52
1	cJ	120	HIS	CB-CG	5.29	1.57	1.50
1	dr	59	VAL	C-N	5.29	1.41	1.33
1	du	80	TRP	CA-CB	5.29	1.61	1.53
1	e9	162	ARG	CD-NE	5.29	1.53	1.46
1	ek	92	GLU	CA-CB	5.29	1.61	1.53
1	em	143	ARG	CZ-NH2	-5.29	1.26	1.33
1	eu	86	VAL	CA-CB	-5.29	1.48	1.54
1	f1	167	ARG	CD-NE	5.29	1.53	1.46
1	f6	114	GLN	C-N	-5.29	1.27	1.33
1	fd	102	SER	N-CA	5.29	1.53	1.46
1	fd	129	ILE	CA-CB	-5.29	1.47	1.54
1	fu	70	LYS	CA-CB	5.29	1.61	1.53
1	fC	77	ALA	CA-C	5.29	1.59	1.52
1	fD	167	ARG	N-CA	-5.29	1.39	1.46
1	fF	4	GLN	CA-CB	5.29	1.62	1.53
1	fG	83	LEU	CA-CB	5.29	1.61	1.53
1	fI	189	LEU	C-N	5.29	1.40	1.33
1	fL	131	LYS	CA-CB	5.29	1.61	1.53
1	fR	97	ARG	CA-CB	5.29	1.61	1.53
1	c	80	TRP	N-CA	5.29	1.52	1.46
1	e	163	ASP	CA-C	5.29	1.59	1.52
1	t	112	GLN	C-O	-5.29	1.18	1.24
1	z	149	SER	N-CA	5.29	1.52	1.46
1	3	37	ILE	CA-CB	-5.29	1.51	1.54
1	I	36	VAL	C-N	-5.29	1.27	1.33
1	V	158	LYS	N-CA	5.29	1.51	1.46
1	h9	20	LEU	CA-C	-5.29	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hz	63	GLN	CA-C	-5.29	1.45	1.52
1	i3	153	ILE	CA-C	-5.29	1.46	1.52
1	it	194	ALA	CA-CB	5.29	1.61	1.53
1	1S	115	ILE	C-N	5.29	1.40	1.33
1	ja	6	LEU	CA-CB	5.29	1.62	1.53
1	k0	177	ALA	CA-C	5.29	1.59	1.52
1	ks	23	TRP	CA-CB	5.29	1.61	1.53
1	kE	122	PRO	C-N	5.29	1.39	1.33
1	kN	54	THR	CA-C	5.29	1.59	1.52
1	27	40	PHE	CG-CD2	5.29	1.50	1.38
1	lu	150	ILE	C-N	5.29	1.41	1.33
1	2w	60	GLY	CA-C	-5.29	1.44	1.51
1	2E	6	LEU	C-N	5.29	1.41	1.33
1	35	52	LEU	CB-CG	5.29	1.64	1.53
1	3b	106	GLY	C-N	5.29	1.41	1.33
1	3k	107	THR	C-O	-5.29	1.17	1.24
1	3W	131	LYS	N-CA	-5.29	1.40	1.46
1	3Z	177	ALA	N-CA	-5.29	1.38	1.45
1	4e	3	VAL	CA-C	-5.29	1.46	1.52
1	4W	148	THR	N-CA	5.29	1.52	1.46
1	5z	143	ARG	CD-NE	5.29	1.53	1.46
1	6m	217	ALA	C-N	5.29	1.41	1.33
1	6x	173	ARG	CA-C	5.29	1.59	1.52
1	79	143	ARG	N-CA	5.29	1.52	1.46
1	7E	166	ASP	CA-C	5.29	1.59	1.52
1	8p	217	ALA	C-N	5.29	1.41	1.33
1	95	192	GLN	CA-CB	5.29	1.61	1.53
1	9F	51	ASP	CG-OD2	5.29	1.35	1.25
1	9G	172	LEU	C-O	-5.29	1.18	1.24
1	9P	214	MET	C-N	5.29	1.41	1.33
1	9Q	156	GLY	C-O	-5.29	1.16	1.24
1	9X	143	ARG	CA-CB	5.29	1.61	1.53
1	a1	173	ARG	N-CA	-5.29	1.39	1.46
1	ax	167	ARG	N-CA	-5.29	1.40	1.46
1	ay	28	GLU	CA-CB	5.29	1.61	1.53
1	aH	50	GLN	C-N	5.29	1.41	1.33
1	df	112	GLN	N-CA	5.29	1.52	1.46
1	dz	216	THR	CB-OG1	-5.29	1.35	1.43
1	1n	60	GLY	C-N	5.29	1.41	1.33
1	1n	145	TYR	CA-C	-5.29	1.45	1.52
1	ef	156	GLY	C-N	-5.29	1.27	1.34
1	en	139	ASN	CA-CB	5.29	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1s	199	LYS	N-CA	-5.29	1.40	1.46
1	fh	99	PRO	CA-CB	-5.29	1.48	1.53
1	fh	166	ASP	N-CA	5.29	1.52	1.46
1	fW	87	HIS	CD2-NE2	5.29	1.43	1.37
1	y	208	ALA	CA-C	5.29	1.59	1.52
1	g8	200	THR	CA-CB	5.29	1.61	1.53
1	gl	35	GLU	C-N	5.29	1.40	1.34
1	gu	125	PRO	CA-CB	-5.29	1.50	1.53
1	hs	177	ALA	N-CA	5.29	1.52	1.46
1	hI	66	MET	CA-C	5.29	1.59	1.52
1	il	143	ARG	CA-CB	5.29	1.63	1.53
1	iC	134	ILE	CA-CB	-5.29	1.48	1.54
1	iL	108	THR	CA-CB	-5.29	1.44	1.53
1	iQ	23	TRP	CD2-CE3	5.29	1.48	1.40
1	1S	69	LEU	CA-CB	5.29	1.61	1.53
1	iS	162	ARG	CZ-NH2	-5.29	1.26	1.33
1	j7	83	LEU	C-N	5.29	1.39	1.33
1	jc	49	PRO	CA-C	-5.29	1.44	1.52
1	jg	112	GLN	CA-C	5.29	1.59	1.52
1	jo	229	ARG	C-N	5.29	1.40	1.33
1	ju	143	ARG	CA-CB	5.29	1.61	1.53
1	jN	18	ARG	CZ-NH1	-5.29	1.25	1.32
1	jO	91	ILE	N-CA	5.29	1.52	1.46
1	jR	34	PRO	N-CA	5.29	1.54	1.47
1	k3	196	PRO	CA-C	-5.29	1.44	1.52
1	ka	162	ARG	C-N	5.29	1.41	1.34
1	kE	63	GLN	CA-C	5.29	1.59	1.52
1	kF	23	TRP	C-N	5.29	1.40	1.33
1	l0	128	GLU	C-O	-5.29	1.17	1.24
1	l4	143	ARG	CA-CB	5.29	1.61	1.53
1	ld	136	LEU	C-N	-5.29	1.27	1.33
1	lm	61	GLY	N-CA	-5.29	1.39	1.45
1	lr	160	PRO	N-CD	-5.29	1.40	1.47
1	29	225	GLY	C-N	5.29	1.40	1.33
1	lC	36	VAL	N-CA	5.29	1.51	1.46
1	2g	83	LEU	C-O	-5.29	1.18	1.24
1	2K	82	ARG	CD-NE	5.29	1.53	1.46
1	2M	77	ALA	N-CA	-5.29	1.40	1.46
1	2R	50	GLN	C-O	-5.29	1.18	1.24
1	3x	229	ARG	NE-CZ	-5.29	1.27	1.33
1	3E	185	MET	C-O	-5.29	1.18	1.24
1	3G	30	LYS	N-CA	5.29	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3G	144	MET	CA-CB	-5.29	1.44	1.53
1	3I	111	LEU	CA-CB	5.29	1.61	1.53
1	3K	143	ARG	C-O	-5.29	1.18	1.24
1	3S	77	ALA	C-O	-5.29	1.18	1.24
1	4k	140	LYS	N-CA	-5.29	1.40	1.46
1	4x	70	LYS	C-O	-5.29	1.18	1.24
1	4J	203	LYS	CA-C	-5.29	1.46	1.52
1	4R	96	MET	C-O	5.29	1.30	1.23
1	4W	195	ASN	CA-CB	5.29	1.60	1.53
1	51	100	ARG	CA-C	5.29	1.60	1.53
1	5o	199	LYS	CA-CB	5.29	1.61	1.53
1	5P	170	LYS	CA-CB	5.29	1.61	1.53
1	67	113	GLU	CA-C	-5.29	1.46	1.52
1	6l	228	ALA	CA-C	5.29	1.59	1.52
1	6B	212	GLU	CA-CB	5.29	1.62	1.53
1	76	195	ASN	CA-CB	5.29	1.61	1.53
1	7a	6	LEU	CA-C	5.29	1.59	1.52
1	7c	109	SER	CA-C	-5.29	1.46	1.52
1	7f	6	LEU	C-O	-5.29	1.17	1.24
1	7l	228	ALA	C-N	5.29	1.40	1.33
1	7t	167	ARG	CA-CB	5.29	1.61	1.53
1	7D	167	ARG	CA-C	5.29	1.59	1.52
1	8p	6	LEU	C-N	-5.29	1.26	1.33
1	8q	19	THR	N-CA	5.29	1.52	1.46
1	8t	230	VAL	N-CA	-5.29	1.39	1.46
1	94	171	THR	N-CA	5.29	1.52	1.46
1	96	112	GLN	CA-CB	5.29	1.61	1.53
1	9F	26	VAL	N-CA	5.29	1.52	1.46
1	9R	176	GLN	CA-C	-5.29	1.45	1.52
1	9S	181	VAL	CA-CB	-5.29	1.48	1.54
1	a5	177	ALA	CA-CB	5.29	1.61	1.53
1	ac	31	ALA	C-O	-5.29	1.18	1.24
1	ai	109	SER	N-CA	-5.29	1.39	1.45
1	an	82	ARG	CD-NE	5.29	1.53	1.46
1	13	47	ALA	C-N	5.29	1.43	1.33
1	aZ	27	VAL	N-CA	-5.29	1.38	1.46
1	aZ	115	ILE	CA-CB	5.29	1.60	1.54
1	b4	186	THR	CA-CB	5.29	1.61	1.53
1	b8	227	LYS	C-N	5.29	1.41	1.33
1	b9	164	TYR	N-CA	-5.29	1.39	1.46
1	bn	179	GLN	C-N	5.29	1.40	1.33
1	bv	74	ASN	C-N	5.29	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bH	102	SER	N-CA	5.29	1.52	1.46
1	1b	1	PRO	C-N	5.29	1.41	1.33
1	bX	162	ARG	CA-CB	5.29	1.61	1.53
1	c7	190	LEU	N-CA	5.29	1.53	1.46
1	c8	205	LEU	CA-C	-5.29	1.46	1.52
1	1e	81	ASP	CA-CB	5.29	1.61	1.53
1	cF	213	GLU	CA-C	-5.29	1.46	1.52
1	d1	47	ALA	N-CA	-5.29	1.39	1.46
1	df	91	ILE	CA-C	5.29	1.59	1.52
1	1l	198	CYS	N-CA	5.29	1.53	1.46
1	dC	80	TRP	CA-C	5.29	1.59	1.52
1	dI	167	ARG	CA-C	5.29	1.59	1.52
1	dT	164	TYR	CA-C	5.29	1.59	1.52
1	eb	12	HIS	CD2-NE2	5.29	1.43	1.37
1	el	64	ALA	C-N	5.29	1.40	1.33
1	eu	84	HIS	CE1-NE2	5.29	1.37	1.32
1	1r	103	ASP	C-N	5.29	1.40	1.33
1	ex	160	PRO	CA-CB	-5.29	1.46	1.53
1	eO	129	ILE	N-CA	5.29	1.52	1.46
1	eQ	40	PHE	N-CA	-5.29	1.40	1.46
1	f1	73	ILE	CA-CB	5.29	1.60	1.54
1	fb	103	ASP	CA-C	-5.29	1.45	1.52
1	fd	192	GLN	C-O	-5.29	1.17	1.24
1	fg	187	GLU	CA-C	5.29	1.59	1.52
1	fs	87	HIS	C-N	5.29	1.40	1.33
1	fJ	114	GLN	C-O	-5.29	1.18	1.24
1	fK	79	GLU	CA-CB	5.29	1.61	1.53
1	fV	58	THR	C-N	-5.29	1.27	1.33
1	o	38	PRO	CA-CB	5.29	1.61	1.53
1	r	171	THR	CA-C	5.29	1.59	1.52
1	R	64	ALA	CA-C	-5.29	1.46	1.52
1	V	65	ALA	C-N	5.29	1.40	1.33
1	8	218	CYS	N-CA	5.29	1.53	1.46
1	gb	131	LYS	N-CA	-5.29	1.40	1.46
1	gp	168	PHE	C-O	-5.29	1.18	1.24
1	gT	82	ARG	CZ-NH2	-5.29	1.26	1.33
1	ht	205	LEU	CB-CG	5.29	1.64	1.53
1	hy	120	HIS	N-CA	-5.29	1.39	1.45
1	1L	123	PRO	C-N	5.29	1.39	1.33
1	ia	179	GLN	CA-CB	5.29	1.61	1.53
1	iC	182	LYS	CA-CB	5.29	1.61	1.53
1	j5	221	VAL	C-N	5.29	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j6	133	TRP	CA-C	5.29	1.59	1.52
1	je	155	GLN	CA-CB	5.29	1.62	1.53
1	22	110	THR	C-N	5.29	1.40	1.33
1	kU	123	PRO	C-N	5.29	1.37	1.32
1	lk	103	ASP	CA-CB	-5.29	1.45	1.53
1	lp	137	GLY	CA-C	5.29	1.58	1.52
1	ly	117	TRP	NE1-CE2	-5.29	1.31	1.37
1	lz	224	PRO	CA-C	-5.29	1.46	1.52
1	lE	184	TRP	NE1-CE2	5.29	1.43	1.37
1	lL	32	PHE	CA-C	-5.29	1.45	1.52
1	2j	96	MET	N-CA	5.29	1.52	1.45
1	2r	26	VAL	N-CA	-5.29	1.40	1.46
1	2E	18	ARG	CD-NE	5.29	1.53	1.46
1	30	74	ASN	CA-CB	5.29	1.61	1.53
1	4q	47	ALA	CA-CB	-5.29	1.45	1.53
1	5B	157	PRO	CA-CB	-5.29	1.46	1.53
1	5G	25	LYS	CA-C	5.29	1.59	1.52
1	68	62	HIS	N-CA	5.29	1.54	1.46
1	6z	165	VAL	N-CA	-5.29	1.39	1.46
1	6B	40	PHE	CA-CB	5.29	1.61	1.53
1	6B	96	MET	CG-SD	5.29	1.94	1.80
1	79	152	ASP	CA-CB	5.29	1.60	1.53
1	7q	21	ASN	CA-C	5.29	1.59	1.52
1	8A	143	ARG	CA-CB	5.29	1.62	1.53
1	9w	185	MET	N-CA	-5.29	1.40	1.46
1	9P	175	GLU	C-N	5.29	1.40	1.33
1	a7	214	MET	N-CA	-5.29	1.39	1.46
1	a9	192	GLN	CA-C	5.29	1.59	1.52
1	aj	129	ILE	C-O	-5.29	1.18	1.24
1	aN	38	PRO	CA-CB	5.29	1.61	1.53
1	aP	14	ALA	C-N	5.29	1.40	1.33
1	b9	17	PRO	N-CA	-5.29	1.40	1.47
1	bG	124	ILE	CA-C	5.29	1.58	1.52
1	bL	178	SER	CA-CB	5.29	1.62	1.53
1	c8	78	ALA	CA-C	5.29	1.59	1.52
1	c9	215	MET	C-N	5.29	1.41	1.33
1	cd	7	GLN	CA-CB	5.29	1.61	1.53
1	cH	110	THR	C-N	5.29	1.41	1.33
1	cN	212	GLU	CA-CB	5.29	1.61	1.53
1	cR	157	PRO	C-O	-5.29	1.17	1.24
1	dQ	79	GLU	C-N	-5.29	1.27	1.33
1	e9	48	THR	CA-C	5.29	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fw	79	GLU	CA-CB	5.29	1.61	1.53
1	fE	222	GLY	N-CA	5.29	1.51	1.45
1	fY	72	THR	CB-OG1	-5.29	1.35	1.43
1	g0	15	ILE	CA-C	5.29	1.58	1.52
1	g5	172	LEU	N-CA	-5.29	1.40	1.46
1	c	27	VAL	CA-CB	-5.29	1.48	1.54
1	D	109	SER	CA-C	5.29	1.58	1.52
1	O	173	ARG	CD-NE	5.29	1.53	1.46
1	ge	134	ILE	CA-C	5.29	1.59	1.52
1	gk	153	ILE	CA-C	5.29	1.59	1.52
1	gp	187	GLU	N-CA	5.29	1.53	1.46
1	gw	73	ILE	CA-CB	-5.29	1.48	1.54
1	gB	173	ARG	N-CA	-5.29	1.40	1.46
1	gC	116	GLY	C-O	-5.29	1.17	1.23
1	gF	109	SER	N-CA	5.29	1.52	1.46
1	hF	16	SER	CA-CB	5.29	1.62	1.53
1	hH	39	MET	CA-C	-5.29	1.46	1.52
1	hQ	64	ALA	CA-C	-5.29	1.45	1.52
1	hS	118	MET	C-N	5.29	1.40	1.33
1	i3	173	ARG	CA-CB	5.29	1.61	1.53
1	ii	15	ILE	CA-CB	5.29	1.61	1.54
1	ij	55	MET	CA-CB	5.29	1.62	1.53
1	j3	26	VAL	C-N	5.29	1.40	1.33
1	jd	65	ALA	C-N	5.29	1.41	1.34
1	jr	219	GLN	CA-CB	5.29	1.62	1.53
1	jA	188	THR	C-N	-5.29	1.27	1.33
1	jO	230	VAL	N-CA	-5.29	1.40	1.46
1	jR	6	LEU	CA-C	5.29	1.60	1.52
1	1Z	209	ALA	CA-C	-5.29	1.46	1.52
1	k4	192	GLN	CA-C	-5.29	1.46	1.52
1	kn	18	ARG	CA-CB	5.29	1.61	1.53
1	kY	188	THR	N-CA	5.29	1.51	1.46
1	lj	7	GLN	CA-C	-5.29	1.46	1.52
1	lm	180	GLU	N-CA	5.29	1.53	1.46
1	lx	189	LEU	CA-C	5.29	1.59	1.52
1	lA	66	MET	CA-CB	5.29	1.61	1.53
1	lF	197	ASP	CA-CB	5.29	1.61	1.53
1	2d	230	VAL	CA-CB	5.29	1.59	1.54
1	2R	55	MET	CA-CB	5.29	1.61	1.53
1	3c	37	ILE	CA-CB	-5.29	1.50	1.53
1	3c	210	THR	CA-CB	5.29	1.62	1.53
1	3g	210	THR	C-N	5.29	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3D	211	LEU	N-CA	-5.29	1.39	1.46
1	3E	168	PHE	CA-C	-5.29	1.46	1.52
1	3O	70	LYS	CA-CB	5.29	1.61	1.53
1	4a	59	VAL	CA-C	-5.29	1.46	1.52
1	4j	3	VAL	C-N	5.29	1.41	1.33
1	4j	191	VAL	CA-CB	-5.29	1.47	1.54
1	4k	145	TYR	CA-CB	5.29	1.62	1.53
1	4S	29	GLU	N-CA	5.29	1.52	1.46
1	4W	85	PRO	C-N	5.29	1.40	1.33
1	55	189	LEU	CA-CB	5.29	1.61	1.53
1	5x	84	HIS	CA-CB	5.29	1.60	1.52
1	5D	1	PRO	N-CA	5.29	1.54	1.47
1	5J	226	HIS	N-CA	5.29	1.52	1.46
1	5P	166	ASP	CA-CB	5.29	1.61	1.53
1	5P	203	LYS	CA-CB	5.29	1.61	1.53
1	5R	125	PRO	N-CD	-5.29	1.40	1.47
1	5S	125	PRO	CA-CB	-5.29	1.48	1.53
1	5Y	162	ARG	C-N	5.29	1.40	1.33
1	64	44	SER	C-N	5.29	1.40	1.33
1	64	131	LYS	CA-CB	5.29	1.61	1.53
1	6A	228	ALA	CA-C	-5.29	1.45	1.52
1	6O	121	ASN	N-CA	5.29	1.53	1.46
1	6Y	100	ARG	CD-NE	5.29	1.53	1.46
1	6Z	150	ILE	C-N	5.29	1.41	1.33
1	71	23	TRP	N-CA	-5.29	1.40	1.46
1	7k	168	PHE	CA-CB	5.29	1.61	1.53
1	7o	85	PRO	N-CA	-5.29	1.40	1.47
1	7X	135	ILE	C-N	5.29	1.40	1.33
1	83	159	GLU	C-N	-5.29	1.27	1.33
1	89	113	GLU	C-O	-5.29	1.17	1.24
1	8j	200	THR	N-CA	5.29	1.52	1.46
1	8s	17	PRO	CA-C	-5.29	1.44	1.52
1	8D	190	LEU	CA-CB	5.29	1.61	1.53
1	8G	87	HIS	CD2-NE2	5.29	1.43	1.37
1	8Y	45	GLU	CA-C	5.29	1.59	1.52
1	9a	128	GLU	CA-CB	-5.29	1.44	1.53
1	9G	97	ARG	CA-CB	5.29	1.61	1.53
1	9H	90	PRO	CA-CB	-5.29	1.48	1.53
1	Y	12	HIS	CB-CG	-5.29	1.42	1.50
1	9W	84	HIS	CA-CB	5.29	1.60	1.52
1	a1	58	THR	CA-C	-5.29	1.45	1.52
1	aa	117	TRP	C-O	-5.29	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aa	141	ILE	CA-C	-5.29	1.46	1.52
1	an	71	GLU	C-N	5.29	1.40	1.33
1	ar	209	ALA	N-CA	-5.29	1.39	1.46
1	12	144	MET	C-N	5.29	1.41	1.33
1	aP	33	SER	CA-CB	5.29	1.60	1.53
1	aS	215	MET	C-N	5.29	1.41	1.33
1	b2	168	PHE	CA-CB	5.29	1.61	1.53
1	b6	117	TRP	C-N	5.29	1.40	1.33
1	cW	18	ARG	CA-C	5.29	1.59	1.52
1	dv	221	VAL	CA-CB	-5.29	1.47	1.53
1	dB	182	LYS	N-CA	-5.29	1.40	1.46
1	1n	62	HIS	CA-C	5.29	1.59	1.53
1	1n	183	ASN	N-CA	5.29	1.52	1.46
1	dW	10	MET	CA-C	5.29	1.60	1.52
1	dX	184	TRP	CA-CB	5.29	1.61	1.53
1	e2	195	ASN	CA-C	5.29	1.59	1.53
1	eg	84	HIS	CA-C	5.29	1.59	1.52
1	el	134	ILE	CA-C	5.29	1.59	1.52
1	eq	222	GLY	N-CA	-5.29	1.37	1.45
1	ey	79	GLU	CA-C	5.29	1.59	1.52
1	eB	76	GLU	CA-CB	5.29	1.61	1.53
1	eK	198	CYS	CA-C	5.29	1.60	1.52
1	eN	140	LYS	C-O	-5.29	1.18	1.24
1	f2	120	HIS	ND1-CE1	5.29	1.37	1.32
1	f8	84	HIS	CB-CG	5.29	1.57	1.50
1	fj	64	ALA	N-CA	5.29	1.52	1.46
1	fq	83	LEU	CA-CB	5.29	1.61	1.53
1	fJ	171	THR	CA-C	5.29	1.59	1.52
1	fL	40	PHE	C-N	5.29	1.40	1.33
1	fM	18	ARG	CD-NE	5.29	1.53	1.46
1	fN	211	LEU	CA-CB	5.29	1.61	1.53
1	fT	153	ILE	C-O	-5.29	1.18	1.24
1	g4	208	ALA	CA-C	5.29	1.59	1.53
1	g	116	GLY	CA-C	5.29	1.57	1.51
1	A	32	PHE	CA-C	-5.29	1.45	1.52
1	B	54	THR	CA-C	-5.29	1.46	1.52
1	C	53	ASN	C-O	-5.29	1.17	1.24
1	3	202	LEU	CA-CB	5.29	1.61	1.53
1	L	69	LEU	CA-CB	5.29	1.61	1.53
1	5	226	HIS	CA-CB	5.29	1.61	1.53
1	6	42	ALA	CA-CB	5.29	1.62	1.53
1	gg	128	GLU	CA-C	5.28	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gi	5	ASN	CA-CB	5.28	1.57	1.53
1	gs	87	HIS	ND1-CE1	5.28	1.37	1.32
1	gE	190	LEU	C-N	5.28	1.40	1.33
1	hy	212	GLU	CA-CB	5.28	1.61	1.53
1	hH	186	THR	C-O	5.28	1.30	1.24
1	hI	161	PHE	N-CA	-5.28	1.39	1.46
1	i1	33	SER	CA-C	-5.28	1.45	1.52
1	ig	28	GLU	CA-CB	5.28	1.61	1.53
1	ii	170	LYS	CA-C	-5.28	1.46	1.52
1	ip	23	TRP	NE1-CE2	-5.28	1.31	1.37
1	iI	47	ALA	N-CA	5.28	1.51	1.45
1	iO	87	HIS	CG-ND1	5.28	1.44	1.38
1	j2	123	PRO	CA-C	5.28	1.59	1.52
1	jp	2	ILE	CA-C	-5.28	1.46	1.52
1	1W	30	LYS	C-N	5.28	1.41	1.33
1	1W	69	LEU	C-N	5.28	1.41	1.33
1	jy	59	VAL	CA-CB	5.28	1.60	1.54
1	jA	36	VAL	C-N	5.28	1.39	1.33
1	jC	228	ALA	C-N	5.28	1.41	1.33
1	jI	134	ILE	N-CA	-5.28	1.40	1.46
1	jK	117	TRP	CA-CB	5.28	1.61	1.53
1	k5	89	GLY	C-N	5.28	1.40	1.33
1	k7	111	LEU	N-CA	-5.28	1.39	1.46
1	kk	121	ASN	CA-CB	5.28	1.63	1.53
1	kp	226	HIS	CG-ND1	5.28	1.44	1.38
1	kA	176	GLN	CA-C	5.28	1.59	1.53
1	kH	110	THR	N-CA	5.28	1.52	1.45
1	l3	39	MET	CA-C	-5.28	1.45	1.52
1	lb	85	PRO	N-CA	-5.28	1.40	1.47
1	le	11	VAL	CA-CB	-5.28	1.48	1.54
1	lp	229	ARG	C-N	5.28	1.39	1.33
1	lG	131	LYS	CA-C	-5.28	1.46	1.52
1	lI	55	MET	C-N	5.28	1.40	1.33
1	lK	229	ARG	CZ-NH1	-5.28	1.25	1.32
1	2a	120	HIS	ND1-CE1	5.28	1.37	1.32
1	lP	145	TYR	CA-C	-5.28	1.45	1.52
1	2d	83	LEU	N-CA	-5.28	1.39	1.46
1	2r	91	ILE	CA-C	-5.28	1.46	1.52
1	2B	77	ALA	N-CA	-5.28	1.40	1.46
1	34	93	PRO	CA-C	5.28	1.58	1.52
1	36	86	VAL	N-CA	-5.28	1.38	1.46
1	37	100	ARG	N-CA	-5.28	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	37	133	TRP	N-CA	-5.28	1.39	1.46
1	3e	83	LEU	N-CA	5.28	1.53	1.46
1	3f	100	ARG	CZ-NH1	-5.28	1.25	1.32
1	3h	217	ALA	C-N	5.28	1.41	1.33
1	3o	184	TRP	C-N	5.28	1.40	1.33
1	3C	152	ASP	C-N	5.28	1.40	1.33
1	3L	223	GLY	CA-C	5.28	1.59	1.51
1	3N	146	SER	CA-CB	5.28	1.61	1.53
1	3P	91	ILE	C-N	5.28	1.39	1.33
1	51	53	ASN	N-CA	-5.28	1.39	1.46
1	54	18	ARG	C-N	5.28	1.40	1.33
1	5i	197	ASP	CA-CB	5.28	1.61	1.53
1	5S	47	ALA	CA-C	5.28	1.59	1.52
1	5T	180	GLU	C-N	5.28	1.40	1.33
1	6p	220	GLY	C-O	-5.28	1.16	1.23
1	6w	5	ASN	C-N	5.28	1.41	1.33
1	6M	39	MET	CA-CB	5.28	1.61	1.53
1	6O	87	HIS	CB-CG	5.28	1.57	1.50
1	6S	96	MET	CA-CB	5.28	1.61	1.53
1	6X	30	LYS	CA-C	-5.28	1.45	1.52
1	7i	185	MET	C-N	5.28	1.40	1.33
1	7A	101	GLY	CA-C	-5.28	1.44	1.51
1	7M	81	ASP	N-CA	-5.28	1.39	1.46
1	7U	70	LYS	C-N	5.28	1.40	1.33
1	7V	155	GLN	CA-CB	5.28	1.60	1.53
1	7Z	155	GLN	CA-C	5.28	1.59	1.52
1	8a	72	THR	C-N	5.28	1.40	1.33
1	8b	45	GLU	C-N	5.28	1.40	1.33
1	8W	130	TYR	C-N	5.28	1.40	1.33
1	8X	98	GLU	CA-C	5.28	1.58	1.52
1	94	59	VAL	N-CA	-5.28	1.39	1.46
1	9j	75	GLU	CA-CB	5.28	1.61	1.53
1	9o	145	TYR	C-N	-5.28	1.25	1.33
1	9B	199	LYS	CA-CB	-5.28	1.45	1.53
1	9I	119	THR	C-N	5.28	1.40	1.33
1	9S	189	LEU	CA-CB	5.28	1.61	1.53
1	a2	139	ASN	CA-C	-5.28	1.46	1.52
1	a4	84	HIS	CD2-NE2	-5.28	1.32	1.37
1	ah	194	ALA	N-CA	-5.28	1.39	1.46
1	au	79	GLU	CA-C	5.28	1.59	1.52
1	aF	226	HIS	CA-CB	5.28	1.61	1.53
1	aR	104	ILE	CA-C	5.28	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bs	51	ASP	N-CA	-5.28	1.40	1.46
1	bK	107	THR	CA-CB	-5.28	1.44	1.53
1	bR	62	HIS	CD2-NE2	-5.28	1.32	1.37
1	bR	120	HIS	CG-CD2	5.28	1.41	1.35
1	bZ	62	HIS	CE1-NE2	5.28	1.37	1.32
1	c2	82	ARG	CA-C	5.28	1.59	1.52
1	c5	207	PRO	N-CD	-5.28	1.40	1.47
1	cc	45	GLU	C-N	5.28	1.40	1.33
1	cj	55	MET	N-CA	5.28	1.52	1.46
1	co	96	MET	C-O	-5.28	1.17	1.24
1	cr	84	HIS	CE1-NE2	-5.28	1.27	1.32
1	cz	27	VAL	N-CA	-5.28	1.39	1.46
1	cK	191	VAL	CA-C	5.28	1.61	1.52
1	cZ	151	LEU	CA-C	5.28	1.59	1.52
1	d4	31	ALA	CA-C	5.28	1.59	1.52
1	dn	105	ALA	CA-C	-5.28	1.45	1.52
1	dR	54	THR	N-CA	-5.28	1.40	1.46
1	dV	174	ALA	C-N	5.28	1.41	1.33
1	e1	84	HIS	ND1-CE1	5.28	1.37	1.32
1	eh	69	LEU	CA-CB	5.28	1.61	1.53
1	eh	221	VAL	CA-CB	-5.28	1.49	1.54
1	em	79	GLU	C-N	5.28	1.40	1.33
1	ep	189	LEU	C-O	-5.28	1.17	1.24
1	eY	119	THR	CA-C	-5.28	1.45	1.52
1	eZ	226	HIS	N-CA	-5.28	1.39	1.46
1	fc	41	SER	C-N	5.28	1.41	1.33
1	1w	146	SER	N-CA	5.28	1.51	1.46
1	fp	82	ARG	N-CA	-5.28	1.40	1.46
1	ft	50	GLN	N-CA	-5.28	1.39	1.46
1	fN	225	GLY	C-N	5.28	1.41	1.33
1	fT	219	GLN	C-N	5.28	1.40	1.33
1	fW	7	GLN	CA-C	5.28	1.61	1.52
1	g2	82	ARG	CA-CB	5.28	1.61	1.53
1	l	199	LYS	N-CA	5.28	1.52	1.46
1	r	221	VAL	CA-C	-5.28	1.46	1.53
1	u	95	GLN	CA-CB	5.28	1.62	1.53
1	z	35	GLU	CA-CB	5.28	1.63	1.53
1	U	168	PHE	C-O	-5.28	1.18	1.24
1	9	190	LEU	N-CA	5.28	1.52	1.46
1	gH	151	LEU	CA-CB	5.28	1.61	1.53
1	1J	27	VAL	C-N	5.28	1.41	1.33
1	hG	116	GLY	N-CA	5.28	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hK	66	MET	C-O	-5.28	1.18	1.24
1	hU	37	ILE	N-CA	5.28	1.53	1.46
1	i8	229	ARG	C-N	5.28	1.39	1.33
1	iL	113	GLU	CA-C	-5.28	1.46	1.52
1	iN	145	TYR	C-O	5.28	1.31	1.24
1	jq	136	LEU	CA-CB	5.28	1.61	1.53
1	km	121	ASN	CA-C	5.28	1.58	1.52
1	kD	15	ILE	CA-CB	-5.28	1.49	1.54
1	kD	51	ASP	CA-C	5.28	1.59	1.52
1	kN	165	VAL	C-N	5.28	1.41	1.33
1	l1	182	LYS	C-N	5.28	1.40	1.33
1	le	40	PHE	CA-CB	5.28	1.61	1.53
1	lh	72	THR	N-CA	-5.28	1.40	1.46
1	28	221	VAL	CA-C	-5.28	1.47	1.52
1	lE	176	GLN	C-N	5.28	1.40	1.33
1	3q	175	GLU	C-O	-5.28	1.17	1.23
1	3r	76	GLU	C-N	5.28	1.40	1.33
1	3s	225	GLY	C-O	-5.28	1.17	1.23
1	4m	224	PRO	CA-C	5.28	1.58	1.52
1	4B	189	LEU	CA-C	5.28	1.59	1.52
1	4K	21	ASN	C-N	5.28	1.41	1.33
1	55	221	VAL	CA-C	5.28	1.59	1.52
1	5h	110	THR	CA-CB	5.28	1.61	1.53
1	5E	88	ALA	CA-C	5.28	1.59	1.52
1	5U	41	SER	CA-C	-5.28	1.46	1.52
1	7p	230	VAL	N-CA	5.28	1.52	1.46
1	7Z	215	MET	CA-C	-5.28	1.45	1.52
1	8f	183	ASN	CA-C	5.28	1.59	1.52
1	8C	214	MET	C-N	5.28	1.41	1.33
1	90	223	GLY	C-N	5.28	1.39	1.33
1	9d	77	ALA	C-N	5.28	1.41	1.33
1	9t	85	PRO	N-CD	5.28	1.55	1.47
1	9C	91	ILE	C-O	-5.28	1.17	1.24
1	a1	105	ALA	CA-CB	5.28	1.61	1.53
1	a5	16	SER	CA-CB	5.28	1.61	1.53
1	aD	36	VAL	C-O	-5.28	1.18	1.24
1	bk	65	ALA	C-N	5.28	1.40	1.33
1	bz	29	GLU	N-CA	5.28	1.52	1.46
1	bJ	178	SER	N-CA	5.28	1.52	1.45
1	bR	18	ARG	CZ-NH2	-5.28	1.26	1.33
1	cg	220	GLY	CA-C	-5.28	1.44	1.51
1	dg	76	GLU	N-CA	-5.28	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dE	177	ALA	C-N	5.28	1.40	1.33
1	dX	194	ALA	CA-CB	5.28	1.62	1.53
1	ed	12	HIS	CB-CG	5.28	1.57	1.50
1	ei	213	GLU	C-N	5.28	1.40	1.33
1	ek	207	PRO	C-N	5.28	1.41	1.33
1	f3	98	GLU	CA-CB	5.28	1.63	1.53
1	fo	117	TRP	CA-C	5.28	1.59	1.52
1	U	163	ASP	N-CA	-5.28	1.39	1.46
1	7	97	ARG	CD-NE	5.28	1.53	1.46
1	g9	63	GLN	CA-CB	5.28	1.62	1.53
1	gi	92	GLU	CA-C	5.28	1.58	1.53
1	gn	13	GLN	CA-CB	5.28	1.63	1.53
1	gp	73	ILE	CA-C	5.28	1.59	1.52
1	gt	11	VAL	CA-CB	5.28	1.61	1.54
1	gw	133	TRP	NE1-CE2	-5.28	1.31	1.37
1	gE	100	ARG	C-N	5.28	1.40	1.33
1	1G	121	ASN	CA-CB	5.28	1.59	1.53
1	h4	3	VAL	C-N	5.28	1.40	1.33
1	h5	3	VAL	CA-C	5.28	1.59	1.52
1	hg	225	GLY	C-N	-5.28	1.26	1.33
1	hj	28	GLU	C-O	-5.28	1.17	1.24
1	hm	184	TRP	N-CA	-5.28	1.39	1.46
1	1L	85	PRO	CA-C	5.28	1.58	1.52
1	ia	82	ARG	CD-NE	5.28	1.53	1.46
1	ip	102	SER	CA-C	-5.28	1.45	1.52
1	1S	116	GLY	C-N	5.28	1.40	1.33
1	iW	56	LEU	N-CA	5.28	1.52	1.46
1	jg	33	SER	N-CA	5.28	1.54	1.46
1	jI	40	PHE	C-O	5.28	1.30	1.24
1	1Y	69	LEU	CA-CB	5.28	1.61	1.53
1	k1	117	TRP	CD2-CE3	-5.28	1.31	1.40
1	k4	169	TYR	C-N	5.28	1.40	1.33
1	k6	189	LEU	N-CA	5.28	1.52	1.46
1	kf	163	ASP	N-CA	5.28	1.52	1.46
1	21	195	ASN	CA-C	-5.28	1.46	1.52
1	ku	89	GLY	N-CA	5.28	1.51	1.44
1	kx	36	VAL	CA-CB	-5.28	1.47	1.54
1	kC	3	VAL	CA-CB	-5.28	1.47	1.54
1	kF	133	TRP	CZ2-CH2	5.28	1.47	1.37
1	kL	82	ARG	CZ-NH2	-5.28	1.26	1.33
1	26	190	LEU	N-CA	-5.28	1.40	1.46
1	lm	40	PHE	CA-CB	5.28	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lo	170	LYS	C-N	5.28	1.40	1.33
1	ly	86	VAL	C-O	-5.28	1.18	1.24
1	lN	112	GLN	CA-CB	5.28	1.61	1.53
1	lQ	218	CYS	C-N	5.28	1.41	1.33
1	2v	57	ASN	C-N	5.28	1.40	1.33
1	2J	1	PRO	N-CD	5.28	1.55	1.47
1	3o	209	ALA	CA-C	-5.28	1.46	1.52
1	3x	109	SER	N-CA	-5.28	1.39	1.46
1	3x	194	ALA	N-CA	-5.28	1.38	1.45
1	3y	81	ASP	CA-C	5.28	1.59	1.52
1	3B	57	ASN	CA-C	5.28	1.59	1.52
1	3F	25	LYS	CA-C	-5.28	1.46	1.52
1	3I	82	ARG	C-N	5.28	1.41	1.33
1	3Q	53	ASN	N-CA	-5.28	1.40	1.46
1	4l	143	ARG	CA-C	5.28	1.59	1.52
1	4v	33	SER	CA-C	-5.28	1.46	1.52
1	4y	198	CYS	CA-CB	5.28	1.61	1.53
1	4y	206	GLY	CA-C	5.28	1.59	1.51
1	4F	209	ALA	N-CA	5.28	1.52	1.45
1	4Y	212	GLU	C-O	5.28	1.30	1.24
1	4Z	9	GLN	CA-CB	5.28	1.62	1.53
1	4Z	180	GLU	N-CA	-5.28	1.40	1.46
1	5h	187	GLU	C-O	5.28	1.30	1.24
1	5B	226	HIS	CB-CG	5.28	1.57	1.50
1	5M	24	VAL	C-N	5.28	1.40	1.33
1	5X	62	HIS	CE1-NE2	5.28	1.37	1.32
1	5Z	80	TRP	CA-C	-5.28	1.46	1.52
1	68	135	ILE	CA-C	5.28	1.59	1.52
1	6e	164	TYR	CA-CB	5.28	1.61	1.53
1	6f	41	SER	CA-CB	5.28	1.61	1.53
1	6h	221	VAL	CA-CB	5.28	1.61	1.54
1	6k	130	TYR	CA-C	5.28	1.59	1.52
1	7k	127	GLY	N-CA	5.28	1.52	1.45
1	7r	59	VAL	N-CA	5.28	1.53	1.46
1	7X	88	ALA	N-CA	-5.28	1.40	1.46
1	81	84	HIS	CB-CG	5.28	1.57	1.50
1	86	15	ILE	CA-C	5.28	1.59	1.52
1	8e	11	VAL	CA-C	5.28	1.58	1.52
1	8g	213	GLU	C-N	5.28	1.40	1.33
1	8x	43	LEU	CA-CB	5.28	1.61	1.53
1	8G	49	PRO	CA-C	-5.28	1.45	1.52
1	9a	34	PRO	C-N	5.28	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9c	226	HIS	ND1-CE1	5.28	1.37	1.32
1	9h	222	GLY	CA-C	-5.28	1.46	1.51
1	9n	157	PRO	N-CA	-5.28	1.40	1.47
1	9v	92	GLU	CA-C	-5.28	1.46	1.52
1	9v	107	THR	CA-C	-5.28	1.45	1.52
1	9C	39	MET	SD-CE	5.28	1.92	1.79
1	Y	62	HIS	CA-CB	5.28	1.61	1.53
1	a0	87	HIS	CE1-NE2	-5.28	1.27	1.32
1	aa	13	GLN	CA-C	5.28	1.59	1.52
1	ai	226	HIS	ND1-CE1	5.28	1.37	1.32
1	11	134	ILE	C-N	5.28	1.40	1.33
1	an	45	GLU	C-N	5.28	1.40	1.33
1	aY	20	LEU	CA-C	-5.28	1.46	1.52
1	b2	140	LYS	CA-C	5.28	1.59	1.52
1	b6	18	ARG	CD-NE	5.28	1.53	1.46
1	bc	71	GLU	CA-CB	5.28	1.62	1.53
1	br	97	ARG	CA-C	5.28	1.59	1.52
1	bT	15	ILE	C-O	-5.28	1.18	1.24
1	1b	182	LYS	C-N	5.28	1.40	1.33
1	cu	134	ILE	CA-CB	-5.28	1.47	1.54
1	1g	121	ASN	CA-CB	5.28	1.61	1.53
1	dh	45	GLU	C-O	5.28	1.30	1.23
1	dn	189	LEU	CA-CB	5.28	1.62	1.53
1	dp	23	TRP	C-N	-5.28	1.27	1.33
1	dF	62	HIS	CE1-NE2	5.28	1.37	1.32
1	1n	112	GLN	CA-C	5.28	1.59	1.52
1	dV	100	ARG	CA-C	5.28	1.60	1.53
1	dV	134	ILE	CA-C	-5.28	1.46	1.52
1	ei	65	ALA	CA-C	-5.28	1.45	1.52
1	eq	229	ARG	CD-NE	5.28	1.53	1.46
1	eN	223	GLY	N-CA	5.28	1.51	1.44
1	eS	153	ILE	CA-CB	-5.28	1.47	1.54
1	eX	34	PRO	N-CD	-5.28	1.40	1.47
1	fh	67	GLN	CA-CB	-5.28	1.45	1.53
1	fj	30	LYS	N-CA	5.28	1.53	1.46
1	fr	34	PRO	N-CD	-5.28	1.40	1.47
1	fs	47	ALA	CA-C	-5.28	1.46	1.52
1	fH	16	SER	CA-CB	5.28	1.63	1.53
1	fN	18	ARG	CA-CB	5.28	1.61	1.53
1	m	203	LYS	CA-CB	5.28	1.62	1.53
1	G	21	ASN	N-CA	5.28	1.52	1.46
1	J	221	VAL	CA-CB	5.28	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4	37	ILE	CA-C	-5.28	1.47	1.52
1	W	102	SER	CA-C	5.28	1.60	1.52
1	gc	50	GLN	N-CA	-5.28	1.39	1.46
1	gc	159	GLU	CA-CB	5.28	1.61	1.53
1	gl	12	HIS	CD2-NE2	5.28	1.43	1.37
1	gl	140	LYS	C-N	5.28	1.40	1.33
1	gG	195	ASN	N-CA	5.28	1.53	1.45
1	hr	205	LEU	N-CA	-5.28	1.39	1.46
1	iI	139	ASN	CG-ND2	5.28	1.44	1.33
1	jl	155	GLN	CA-CB	5.28	1.61	1.53
1	jm	62	HIS	N-CA	-5.28	1.38	1.46
1	jC	192	GLN	CA-CB	5.28	1.61	1.53
1	jF	180	GLU	C-N	5.28	1.40	1.33
1	kg	81	ASP	CA-C	5.28	1.59	1.52
1	kC	160	PRO	CA-C	5.28	1.58	1.52
1	kZ	146	SER	N-CA	5.28	1.51	1.45
1	lN	222	GLY	N-CA	5.28	1.53	1.45
1	2i	100	ARG	NE-CZ	5.28	1.38	1.33
1	2n	16	SER	CA-C	-5.28	1.46	1.52
1	2W	74	ASN	CA-CB	5.28	1.61	1.53
1	3K	141	ILE	CA-C	5.28	1.59	1.52
1	3O	226	HIS	CD2-NE2	5.28	1.43	1.37
1	3V	120	HIS	CG-ND1	-5.28	1.32	1.38
1	52	97	ARG	CD-NE	5.28	1.53	1.46
1	58	17	PRO	C-N	5.28	1.40	1.33
1	5b	226	HIS	CB-CG	5.28	1.57	1.50
1	5m	78	ALA	CA-CB	5.28	1.61	1.53
1	5p	122	PRO	N-CD	5.28	1.55	1.47
1	5x	16	SER	CA-C	5.28	1.58	1.52
1	5A	170	LYS	N-CA	5.28	1.52	1.46
1	5R	132	ARG	CD-NE	5.28	1.53	1.46
1	6h	54	THR	CA-C	5.28	1.59	1.52
1	6S	45	GLU	C-N	5.28	1.41	1.33
1	8S	82	ARG	CZ-NH1	-5.28	1.25	1.32
1	8U	28	GLU	CA-CB	5.28	1.61	1.53
1	8V	85	PRO	C-N	5.28	1.40	1.33
1	98	123	PRO	CA-C	-5.28	1.45	1.52
1	9z	158	LYS	CA-C	5.28	1.59	1.52
1	9B	230	VAL	CA-CB	5.28	1.60	1.54
1	a7	227	LYS	CA-C	-5.28	1.48	1.53
1	aX	143	ARG	CZ-NH2	-5.28	1.26	1.33
1	bb	37	ILE	C-O	-5.28	1.20	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bd	82	ARG	CA-CB	5.28	1.61	1.53
1	1b	193	ASN	C-N	5.28	1.40	1.33
1	1g	223	GLY	N-CA	5.28	1.51	1.44
1	cQ	104	ILE	CB-CG1	5.28	1.64	1.53
1	de	169	TYR	CA-C	5.28	1.59	1.52
1	dI	48	THR	CA-C	5.28	1.60	1.53
1	e3	175	GLU	CA-C	-5.28	1.46	1.52
1	e6	142	VAL	CA-CB	5.28	1.60	1.54
1	ev	215	MET	CA-CB	5.28	1.61	1.53
1	eH	42	ALA	C-N	5.28	1.41	1.33
1	eV	121	ASN	CA-C	5.28	1.57	1.52
1	1z	21	ASN	CA-CB	5.28	1.61	1.53
1	fO	186	THR	CA-CB	5.28	1.61	1.53
1	fQ	103	ASP	CA-CB	5.28	1.61	1.53
1	d	132	ARG	CA-C	-5.28	1.46	1.52
1	k	11	VAL	CA-C	5.28	1.58	1.52
1	ga	66	MET	CA-C	-5.28	1.46	1.52
1	ge	94	GLY	C-N	5.28	1.40	1.33
1	gz	75	GLU	CA-C	5.28	1.59	1.52
1	gB	117	TRP	NE1-CE2	5.28	1.43	1.37
1	1J	36	VAL	C-O	-5.28	1.18	1.24
1	hv	135	ILE	CA-C	-5.28	1.46	1.52
1	hB	15	ILE	CB-CG1	5.28	1.64	1.53
1	hF	156	GLY	N-CA	5.28	1.51	1.44
1	ie	105	ALA	N-CA	5.28	1.53	1.46
1	il	85	PRO	CA-C	-5.28	1.45	1.52
1	il	201	ILE	CA-C	-5.28	1.46	1.52
1	iq	45	GLU	CA-CB	5.28	1.59	1.53
1	iK	103	ASP	C-O	-5.28	1.18	1.24
1	iL	31	ALA	N-CA	5.28	1.52	1.46
1	iO	229	ARG	CD-NE	5.28	1.53	1.46
1	iP	226	HIS	CB-CG	5.28	1.57	1.50
1	iS	125	PRO	CA-CB	5.28	1.61	1.53
1	iY	211	LEU	C-N	5.28	1.40	1.33
1	j8	164	TYR	CA-C	5.28	1.59	1.52
1	jf	213	GLU	C-N	5.28	1.40	1.33
1	jF	60	GLY	C-O	-5.28	1.16	1.23
1	k0	37	ILE	N-CA	-5.28	1.40	1.46
1	kj	80	TRP	N-CA	5.28	1.52	1.46
1	kj	105	ALA	C-N	-5.28	1.26	1.33
1	kw	63	GLN	CA-C	5.28	1.59	1.52
1	kD	168	PHE	CB-CG	5.28	1.62	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kJ	154	ARG	N-CA	5.28	1.52	1.45
1	lh	140	LYS	C-N	5.28	1.40	1.33
1	lj	183	ASN	CA-CB	5.28	1.62	1.53
1	lq	68	MET	CA-C	-5.28	1.46	1.52
1	28	39	MET	CA-CB	5.28	1.61	1.53
1	lB	62	HIS	CA-C	5.28	1.60	1.53
1	lI	114	GLN	C-N	5.28	1.40	1.33
1	lR	112	GLN	CA-C	-5.28	1.45	1.52
1	lR	215	MET	CA-C	-5.28	1.45	1.52
1	2h	164	TYR	CA-CB	5.28	1.61	1.53
1	2t	229	ARG	CA-CB	5.28	1.62	1.53
1	2K	19	THR	C-N	5.28	1.41	1.33
1	3z	139	ASN	C-N	5.28	1.40	1.33
1	3B	119	THR	CA-C	5.28	1.59	1.52
1	3I	140	LYS	CA-CB	5.28	1.61	1.53
1	3L	221	VAL	C-N	5.28	1.41	1.33
1	4n	128	GLU	N-CA	5.28	1.52	1.46
1	4A	222	GLY	CA-C	-5.28	1.43	1.52
1	4J	185	MET	CA-CB	5.28	1.61	1.53
1	50	103	ASP	N-CA	5.28	1.53	1.46
1	57	102	SER	C-O	5.28	1.30	1.24
1	5w	91	ILE	CA-CB	5.28	1.60	1.54
1	5B	91	ILE	N-CA	-5.28	1.40	1.46
1	5L	185	MET	CA-C	-5.28	1.46	1.52
1	5S	107	THR	CA-C	-5.28	1.46	1.52
1	6g	68	MET	CA-C	5.28	1.59	1.52
1	6v	50	GLN	CA-CB	5.28	1.61	1.53
1	6E	2	ILE	C-O	-5.28	1.18	1.24
1	7D	167	ARG	CA-CB	5.28	1.61	1.53
1	7H	140	LYS	N-CA	5.28	1.52	1.46
1	7K	10	MET	C-O	-5.28	1.17	1.23
1	7P	6	LEU	C-N	5.28	1.40	1.33
1	86	226	HIS	ND1-CE1	5.28	1.37	1.32
1	8w	62	HIS	CE1-NE2	5.28	1.37	1.32
1	8D	34	PRO	N-CA	-5.28	1.40	1.47
1	9B	86	VAL	CA-C	-5.28	1.45	1.52
1	9N	62	HIS	CG-CD2	5.28	1.41	1.35
1	9X	178	SER	C-N	5.28	1.40	1.33
1	a3	100	ARG	CA-CB	5.28	1.60	1.53
1	a4	144	MET	N-CA	-5.28	1.40	1.46
1	a8	78	ALA	CA-C	5.28	1.59	1.52
1	ap	218	CYS	CA-CB	5.28	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aB	164	TYR	C-N	5.28	1.39	1.34
1	aI	162	ARG	C-O	-5.28	1.17	1.24
1	aZ	120	HIS	N-CA	5.28	1.52	1.45
1	bd	108	THR	CA-C	-5.28	1.46	1.52
1	be	164	TYR	CA-CB	5.28	1.61	1.53
1	be	220	GLY	C-O	-5.28	1.16	1.23
1	bk	164	TYR	CA-CB	5.28	1.61	1.53
1	bq	49	PRO	CA-C	-5.28	1.44	1.52
1	bs	154	ARG	C-N	5.28	1.40	1.33
1	19	115	ILE	N-CA	-5.28	1.40	1.46
1	bK	113	GLU	C-O	-5.28	1.18	1.24
1	bR	104	ILE	N-CA	5.28	1.52	1.46
1	cp	146	SER	C-O	-5.28	1.18	1.24
1	cy	100	ARG	N-CA	-5.28	1.39	1.45
1	cH	177	ALA	N-CA	-5.28	1.39	1.46
1	cW	176	GLN	CA-CB	5.28	1.62	1.53
1	d6	186	THR	CA-C	5.28	1.59	1.52
1	di	5	ASN	C-N	5.28	1.41	1.34
1	dw	32	PHE	CA-CB	5.28	1.59	1.52
1	dH	164	TYR	C-N	5.28	1.40	1.33
1	dN	180	GLU	C-N	5.28	1.40	1.33
1	dY	78	ALA	CA-CB	5.28	1.61	1.53
1	ed	57	ASN	N-CA	5.28	1.53	1.46
1	eA	140	LYS	CA-CB	5.28	1.61	1.53
1	eD	156	GLY	CA-C	-5.28	1.44	1.51
1	1u	147	PRO	C-O	-5.28	1.17	1.24
1	f1	144	MET	CA-CB	5.28	1.61	1.53
1	f6	72	THR	CA-C	-5.28	1.46	1.52
1	fh	115	ILE	N-CA	5.28	1.52	1.46
1	fn	23	TRP	C-N	5.28	1.40	1.33
1	fq	18	ARG	C-N	-5.28	1.27	1.33
1	fw	62	HIS	ND1-CE1	-5.28	1.27	1.32
1	fB	78	ALA	C-N	5.28	1.41	1.34
1	fM	15	ILE	CA-CB	-5.28	1.48	1.54
1	fM	116	GLY	CA-C	-5.28	1.46	1.52
1	n	130	TYR	N-CA	-5.28	1.40	1.46
1	4	118	MET	N-CA	5.28	1.53	1.46
1	V	229	ARG	NE-CZ	-5.28	1.27	1.33
1	9	50	GLN	N-CA	-5.28	1.40	1.46
1	g9	100	ARG	N-CA	-5.28	1.39	1.45
1	gm	90	PRO	CA-C	5.28	1.59	1.52
1	gz	9	GLN	N-CA	5.28	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gH	135	ILE	N-CA	5.28	1.52	1.46
1	1F	192	GLN	C-N	5.28	1.41	1.33
1	gP	196	PRO	CA-CB	5.28	1.61	1.53
1	gT	151	LEU	CA-CB	5.28	1.61	1.53
1	ht	205	LEU	N-CA	-5.28	1.39	1.46
1	hF	31	ALA	CA-C	5.28	1.59	1.52
1	hJ	22	ALA	CA-C	5.28	1.59	1.52
1	hM	190	LEU	N-CA	-5.28	1.40	1.46
1	hP	133	TRP	CA-C	5.28	1.59	1.52
1	iu	133	TRP	C-N	5.28	1.40	1.33
1	iw	154	ARG	CA-CB	5.28	1.63	1.53
1	iz	120	HIS	CA-CB	5.28	1.61	1.53
1	iF	160	PRO	N-CD	5.28	1.55	1.47
1	iP	120	HIS	ND1-CE1	5.28	1.37	1.32
1	iR	154	ARG	C-N	5.28	1.40	1.33
1	jy	84	HIS	CB-CG	5.28	1.57	1.50
1	jK	229	ARG	CD-NE	5.28	1.53	1.46
1	k4	20	LEU	CA-C	-5.28	1.46	1.52
1	k4	35	GLU	C-N	5.28	1.39	1.34
1	kd	156	GLY	CA-C	5.28	1.59	1.51
1	ke	196	PRO	C-N	5.28	1.40	1.33
1	kk	84	HIS	CE1-NE2	5.28	1.37	1.32
1	ks	174	ALA	CA-C	5.28	1.59	1.52
1	22	226	HIS	C-O	-5.28	1.17	1.24
1	24	25	LYS	CA-C	5.28	1.59	1.52
1	kR	53	ASN	CA-CB	5.28	1.61	1.53
1	ld	86	VAL	CA-CB	-5.28	1.48	1.54
1	le	225	GLY	CA-C	-5.28	1.44	1.51
1	lf	161	PHE	CA-CB	5.28	1.61	1.53
1	ls	40	PHE	N-CA	-5.28	1.39	1.46
1	ly	111	LEU	CA-C	-5.28	1.46	1.52
1	lQ	88	ALA	CA-CB	5.28	1.60	1.53
1	lR	160	PRO	CA-C	-5.28	1.45	1.52
1	2e	135	ILE	CA-CB	5.28	1.61	1.54
1	2f	154	ARG	CD-NE	5.28	1.53	1.46
1	2l	69	LEU	CA-CB	5.28	1.61	1.53
1	2q	25	LYS	CA-CB	5.28	1.61	1.53
1	2t	5	ASN	CA-CB	5.28	1.62	1.53
1	2B	82	ARG	C-N	5.28	1.40	1.33
1	2B	175	GLU	CA-CB	5.28	1.61	1.53
1	2C	148	THR	C-O	5.28	1.30	1.23
1	2J	119	THR	CA-CB	5.28	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3c	226	HIS	CA-C	-5.28	1.46	1.52
1	3p	39	MET	CG-SD	5.28	1.94	1.80
1	3V	133	TRP	CA-C	5.28	1.60	1.52
1	4a	93	PRO	CA-CB	-5.28	1.46	1.53
1	4k	80	TRP	N-CA	5.28	1.52	1.46
1	4m	197	ASP	C-O	-5.28	1.18	1.24
1	4z	131	LYS	C-N	5.28	1.41	1.33
1	4P	111	LEU	CA-CB	5.28	1.62	1.53
1	51	195	ASN	C-N	-5.28	1.27	1.34
1	5h	229	ARG	C-N	5.28	1.38	1.33
1	5U	134	ILE	CA-C	-5.28	1.46	1.52
1	6d	46	GLY	CA-C	5.28	1.59	1.51
1	6H	93	PRO	CA-C	-5.28	1.45	1.52
1	7z	30	LYS	CA-C	5.28	1.59	1.52
1	82	67	GLN	CA-C	5.28	1.59	1.52
1	8n	82	ARG	CA-CB	5.28	1.61	1.53
1	8t	12	HIS	CB-CG	5.28	1.57	1.50
1	8C	195	ASN	CA-CB	5.28	1.61	1.53
1	8K	182	LYS	CA-CB	5.28	1.61	1.53
1	8P	22	ALA	C-O	-5.28	1.18	1.24
1	8R	4	GLN	N-CA	-5.28	1.39	1.46
1	8T	53	ASN	N-CA	-5.28	1.39	1.46
1	8V	139	ASN	C-O	-5.28	1.18	1.24
1	95	53	ASN	C-O	5.28	1.30	1.24
1	9h	154	ARG	C-N	5.28	1.40	1.33
1	9w	190	LEU	C-N	5.28	1.40	1.33
1	9G	92	GLU	N-CA	5.28	1.53	1.45
1	9K	112	GLN	CA-C	5.28	1.59	1.52
1	9X	112	GLN	CA-CB	5.28	1.61	1.53
1	9Y	67	GLN	CA-C	5.28	1.59	1.52
1	a7	12	HIS	ND1-CE1	5.28	1.37	1.32
1	af	120	HIS	C-N	5.28	1.40	1.33
1	af	207	PRO	N-CD	5.28	1.55	1.47
1	ai	136	LEU	C-N	5.28	1.40	1.34
1	ao	221	VAL	CA-C	5.28	1.59	1.52
1	au	120	HIS	CE1-NE2	-5.28	1.27	1.32
1	aS	72	THR	C-N	5.28	1.40	1.33
1	b2	198	CYS	C-N	5.28	1.40	1.33
1	bu	63	GLN	C-N	5.28	1.40	1.33
1	19	90	PRO	CA-CB	5.28	1.61	1.53
1	bL	17	PRO	N-CA	-5.28	1.40	1.47
1	bQ	24	VAL	CA-CB	-5.28	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bY	85	PRO	CA-CB	5.28	1.60	1.53
1	c8	219	GLN	CA-C	5.28	1.59	1.52
1	cc	146	SER	CA-CB	5.28	1.62	1.53
1	cd	204	ALA	C-O	-5.28	1.17	1.24
1	ci	49	PRO	CA-CB	-5.28	1.46	1.53
1	1g	79	GLU	CA-CB	5.28	1.61	1.53
1	cK	229	ARG	CA-CB	5.28	1.61	1.53
1	cV	81	ASP	CA-CB	5.28	1.62	1.53
1	cY	171	THR	N-CA	-5.28	1.40	1.46
1	d6	135	ILE	CA-C	-5.28	1.46	1.52
1	dk	71	GLU	C-N	5.28	1.41	1.34
1	ds	223	GLY	CA-C	5.28	1.59	1.51
1	dt	21	ASN	CA-CB	5.28	1.61	1.53
1	dt	190	LEU	CA-CB	5.28	1.61	1.53
1	dC	183	ASN	CA-CB	5.28	1.61	1.53
1	dS	189	LEU	C-N	5.28	1.40	1.33
1	e0	15	ILE	CA-C	5.28	1.59	1.52
1	ey	174	ALA	CA-C	-5.28	1.45	1.52
1	eA	183	ASN	CA-CB	5.28	1.61	1.53
1	eD	1	PRO	C-N	-5.28	1.27	1.33
1	eJ	153	ILE	CB-CG1	5.28	1.64	1.53
1	eP	109	SER	N-CA	5.28	1.52	1.46
1	eX	207	PRO	N-CA	5.28	1.54	1.47
1	eY	52	LEU	C-O	-5.28	1.18	1.24
1	eZ	55	MET	CA-CB	5.28	1.61	1.53
1	fl	162	ARG	CD-NE	5.28	1.53	1.46
1	fB	203	LYS	CA-C	5.28	1.59	1.52
1	1A	226	HIS	CD2-NE2	5.28	1.43	1.37
1	g0	80	TRP	C-N	5.28	1.40	1.33
1	s	97	ARG	CZ-NH2	-5.28	1.26	1.33
1	gf	26	VAL	C-O	-5.27	1.18	1.24
1	gg	4	GLN	C-N	5.27	1.42	1.33
1	1I	211	LEU	CA-C	-5.27	1.46	1.52
1	hj	42	ALA	N-CA	-5.27	1.40	1.46
1	hX	186	THR	N-CA	5.27	1.52	1.46
1	1O	82	ARG	C-N	5.27	1.41	1.33
1	iv	193	ASN	C-N	-5.27	1.26	1.33
1	1Q	212	GLU	C-N	5.27	1.41	1.34
1	jo	55	MET	C-N	-5.27	1.26	1.33
1	jr	36	VAL	C-O	-5.27	1.17	1.24
1	jN	116	GLY	N-CA	-5.27	1.39	1.45
1	k6	107	THR	CA-C	-5.27	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kl	97	ARG	NE-CZ	5.27	1.38	1.33
1	kD	161	PHE	C-O	-5.27	1.17	1.23
1	ls	35	GLU	CA-CB	5.27	1.62	1.53
1	lD	148	THR	CA-CB	5.27	1.62	1.53
1	2w	227	LYS	C-O	5.27	1.31	1.24
1	2J	48	THR	CA-C	5.27	1.59	1.52
1	2Z	50	GLN	CA-CB	5.27	1.61	1.53
1	38	38	PRO	CA-C	5.27	1.60	1.52
1	3f	93	PRO	C-N	5.27	1.42	1.33
1	3D	146	SER	CA-C	-5.27	1.47	1.53
1	3N	206	GLY	CA-C	5.27	1.59	1.51
1	42	12	HIS	ND1-CE1	5.27	1.37	1.32
1	5y	82	ARG	N-CA	-5.27	1.40	1.46
1	6v	208	ALA	CA-CB	5.27	1.62	1.53
1	7h	127	GLY	C-N	-5.27	1.27	1.33
1	8y	36	VAL	CA-CB	5.27	1.61	1.54
1	aX	2	ILE	N-CA	-5.27	1.39	1.46
1	15	35	GLU	C-N	5.27	1.40	1.34
1	bz	225	GLY	N-CA	5.27	1.53	1.45
1	bI	189	LEU	C-O	-5.27	1.18	1.24
1	c4	29	GLU	CA-C	5.27	1.59	1.52
1	c4	114	GLN	C-N	5.27	1.40	1.33
1	c5	173	ARG	CD-NE	5.27	1.53	1.46
1	ce	23	TRP	CA-CB	5.27	1.59	1.53
1	ct	61	GLY	C-N	5.27	1.40	1.33
1	cL	144	MET	N-CA	-5.27	1.39	1.46
1	de	7	GLN	CA-CB	5.27	1.62	1.53
1	e5	189	LEU	N-CA	-5.27	1.39	1.46
1	1u	168	PHE	CA-C	-5.27	1.46	1.52
1	f6	49	PRO	C-N	5.27	1.41	1.33
1	f6	99	PRO	C-N	5.27	1.41	1.33
1	fb	81	ASP	CA-C	5.27	1.59	1.52
1	S	120	HIS	CG-ND1	5.27	1.44	1.38
1	gj	197	ASP	N-CA	5.27	1.52	1.46
1	gA	167	ARG	CZ-NH1	-5.27	1.25	1.32
1	gP	37	ILE	CA-CB	-5.27	1.51	1.54
1	h1	139	ASN	C-O	-5.27	1.18	1.24
1	hz	160	PRO	N-CA	5.27	1.53	1.47
1	1K	141	ILE	CA-C	5.27	1.60	1.52
1	hH	120	HIS	CB-CG	5.27	1.57	1.50
1	hU	28	GLU	CB-CG	5.27	1.68	1.52
1	hV	100	ARG	NE-CZ	-5.27	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i8	85	PRO	CA-C	5.27	1.59	1.52
1	ip	158	LYS	CA-CB	5.27	1.61	1.53
1	iF	36	VAL	C-N	5.27	1.41	1.34
1	1R	98	GLU	CA-C	5.27	1.59	1.53
1	iR	113	GLU	CA-C	5.27	1.59	1.52
1	iS	23	TRP	C-O	-5.27	1.18	1.24
1	iW	152	ASP	CA-C	5.27	1.59	1.52
1	jb	231	LEU	CA-CB	5.27	1.64	1.53
1	jk	2	ILE	CA-CB	5.27	1.60	1.54
1	jq	30	LYS	CA-C	5.27	1.59	1.52
1	js	154	ARG	C-N	5.27	1.40	1.33
1	jw	120	HIS	CB-CG	5.27	1.57	1.50
1	jx	145	TYR	CZ-OH	5.27	1.49	1.38
1	jW	195	ASN	CA-C	5.27	1.59	1.53
1	kv	128	GLU	N-CA	5.27	1.52	1.46
1	kx	181	VAL	C-O	-5.27	1.17	1.24
1	kF	24	VAL	CA-CB	5.27	1.60	1.54
1	kL	103	ASP	C-O	-5.27	1.17	1.24
1	lr	229	ARG	C-N	5.27	1.41	1.33
1	ls	153	ILE	CA-C	5.27	1.59	1.52
1	ly	154	ARG	CD-NE	5.27	1.53	1.46
1	2s	64	ALA	C-O	-5.27	1.18	1.24
1	2w	231	LEU	CA-CB	5.27	1.64	1.53
1	2I	113	GLU	N-CA	-5.27	1.40	1.46
1	2J	64	ALA	CA-C	-5.27	1.46	1.52
1	2M	21	ASN	C-N	5.27	1.41	1.33
1	2U	128	GLU	C-N	5.27	1.40	1.33
1	33	85	PRO	C-N	5.27	1.40	1.33
1	3l	72	THR	C-N	5.27	1.40	1.33
1	3l	193	ASN	CA-CB	5.27	1.61	1.53
1	3v	175	GLU	CD-OE1	5.27	1.35	1.25
1	3V	58	THR	CB-OG1	-5.27	1.35	1.43
1	3Z	62	HIS	C-N	5.27	1.41	1.33
1	43	23	TRP	CD1-NE1	5.27	1.49	1.37
1	4u	51	ASP	CA-C	5.27	1.59	1.52
1	4y	122	PRO	CA-CB	5.27	1.63	1.53
1	4y	190	LEU	C-N	5.27	1.40	1.33
1	57	13	GLN	CA-C	5.27	1.59	1.52
1	58	37	ILE	CA-CB	5.27	1.56	1.54
1	59	142	VAL	C-O	-5.27	1.18	1.24
1	5f	113	GLU	CA-CB	5.27	1.61	1.53
1	5k	1	PRO	N-CA	5.27	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5M	156	GLY	N-CA	5.27	1.51	1.44
1	61	35	GLU	C-N	5.27	1.40	1.33
1	6y	87	HIS	ND1-CE1	5.27	1.37	1.32
1	6H	58	THR	CA-CB	5.27	1.61	1.53
1	7U	99	PRO	CA-CB	5.27	1.60	1.53
1	81	39	MET	C-N	5.27	1.40	1.33
1	8d	142	VAL	CA-C	5.27	1.59	1.52
1	8f	173	ARG	CA-C	5.27	1.59	1.52
1	8v	120	HIS	CA-CB	5.27	1.60	1.53
1	8D	120	HIS	CG-ND1	5.27	1.44	1.38
1	8K	84	HIS	CG-CD2	5.27	1.41	1.35
1	8P	116	GLY	N-CA	5.27	1.52	1.45
1	97	23	TRP	CA-CB	5.27	1.61	1.53
1	98	62	HIS	CG-ND1	5.27	1.44	1.38
1	9v	33	SER	C-O	5.27	1.29	1.24
1	a2	221	VAL	CA-C	5.27	1.59	1.53
1	a3	26	VAL	CA-CB	-5.27	1.48	1.54
1	a4	87	HIS	ND1-CE1	5.27	1.37	1.32
1	af	61	GLY	CA-C	-5.27	1.43	1.52
1	al	134	ILE	CA-C	5.27	1.59	1.52
1	aR	24	VAL	N-CA	5.27	1.52	1.46
1	b2	63	GLN	N-CA	-5.27	1.39	1.46
1	bf	112	GLN	CA-CB	5.27	1.61	1.53
1	bq	142	VAL	C-N	5.27	1.41	1.33
1	bx	200	THR	C-O	-5.27	1.18	1.24
1	bH	77	ALA	CA-C	5.27	1.59	1.52
1	bK	127	GLY	CA-C	5.27	1.58	1.52
1	c2	87	HIS	ND1-CE1	5.27	1.37	1.32
1	c7	147	PRO	CA-CB	-5.27	1.46	1.53
1	ca	185	MET	C-N	5.27	1.41	1.34
1	cu	43	LEU	C-N	5.27	1.40	1.33
1	cx	113	GLU	CA-C	5.27	1.59	1.52
1	cJ	182	LYS	N-CA	-5.27	1.40	1.46
1	1h	49	PRO	C-N	5.27	1.40	1.33
1	cU	120	HIS	CB-CG	5.27	1.57	1.50
1	cZ	20	LEU	CA-C	5.27	1.59	1.52
1	d1	120	HIS	CG-ND1	5.27	1.44	1.38
1	d6	56	LEU	N-CA	-5.27	1.40	1.46
1	1j	214	MET	N-CA	-5.27	1.40	1.46
1	dl	168	PHE	N-CA	-5.27	1.40	1.46
1	dm	149	SER	CA-C	-5.27	1.46	1.52
1	dm	151	LEU	CA-CB	5.27	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dp	55	MET	N-CA	-5.27	1.40	1.46
1	dv	167	ARG	N-CA	-5.27	1.39	1.46
1	1n	123	PRO	N-CA	5.27	1.54	1.47
1	dY	207	PRO	N-CA	5.27	1.54	1.47
1	ed	22	ALA	CA-CB	5.27	1.61	1.53
1	el	27	VAL	N-CA	5.27	1.52	1.46
1	eu	205	LEU	N-CA	-5.27	1.39	1.46
1	ex	128	GLU	C-O	-5.27	1.17	1.24
1	eU	101	GLY	CA-C	5.27	1.58	1.52
1	eZ	24	VAL	CA-C	5.27	1.59	1.52
1	1u	154	ARG	CD-NE	5.27	1.53	1.46
1	ft	144	MET	CA-CB	5.27	1.62	1.53
1	1y	23	TRP	N-CA	-5.27	1.40	1.46
1	fN	66	MET	C-N	5.27	1.40	1.33
1	fO	59	VAL	CA-C	5.27	1.59	1.52
1	1	35	GLU	C-O	-5.27	1.18	1.24
1	l	84	HIS	ND1-CE1	5.27	1.37	1.32
1	m	130	TYR	CA-C	5.27	1.59	1.52
1	w	10	MET	CA-C	-5.27	1.46	1.52
1	z	97	ARG	CA-C	5.27	1.59	1.52
1	U	48	THR	CA-C	-5.27	1.47	1.53
1	8	190	LEU	N-CA	5.27	1.52	1.46
1	gh	140	LYS	N-CA	5.27	1.52	1.46
1	gi	130	TYR	CZ-OH	5.27	1.49	1.38
1	gv	130	TYR	CA-C	5.27	1.59	1.52
1	1E	19	THR	C-N	5.27	1.40	1.33
1	hw	77	ALA	CA-C	-5.27	1.46	1.52
1	hF	162	ARG	CA-C	-5.27	1.46	1.52
1	hQ	27	VAL	C-N	5.27	1.40	1.33
1	hX	85	PRO	C-N	5.27	1.40	1.33
1	ib	119	THR	C-N	5.27	1.40	1.33
1	iq	61	GLY	C-N	-5.27	1.26	1.33
1	iF	62	HIS	CA-CB	5.27	1.61	1.53
1	ji	212	GLU	CA-CB	5.27	1.61	1.53
1	jK	125	PRO	CA-CB	5.27	1.61	1.53
1	jZ	169	TYR	CA-CB	5.27	1.62	1.53
1	ku	109	SER	C-N	5.27	1.40	1.33
1	kJ	37	ILE	C-N	5.27	1.40	1.34
1	26	195	ASN	N-CA	5.27	1.52	1.45
1	3d	42	ALA	CA-C	5.27	1.59	1.52
1	3N	76	GLU	CA-C	-5.27	1.45	1.52
1	4d	30	LYS	CA-C	-5.27	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4Z	183	ASN	CA-CB	5.27	1.61	1.53
1	53	114	GLN	CA-CB	5.27	1.61	1.53
1	56	73	ILE	N-CA	5.27	1.52	1.46
1	58	1	PRO	N-CD	5.27	1.55	1.47
1	5e	105	ALA	N-CA	5.27	1.53	1.46
1	5g	25	LYS	N-CA	-5.27	1.39	1.46
1	5M	69	LEU	C-N	5.27	1.40	1.33
1	5W	72	THR	N-CA	-5.27	1.40	1.46
1	6t	136	LEU	C-N	-5.27	1.27	1.33
1	6v	61	GLY	C-N	-5.27	1.26	1.33
1	6M	49	PRO	CA-CB	-5.27	1.45	1.53
1	6N	200	THR	C-N	5.27	1.40	1.33
1	83	11	VAL	C-O	-5.27	1.18	1.23
1	8z	96	MET	CA-C	5.27	1.58	1.52
1	8E	45	GLU	CA-C	5.27	1.60	1.52
1	8I	10	MET	CA-CB	5.27	1.61	1.53
1	9d	18	ARG	CA-CB	5.27	1.61	1.53
1	9d	57	ASN	CA-C	-5.27	1.45	1.52
1	9g	52	LEU	CA-CB	5.27	1.61	1.53
1	9n	137	GLY	N-CA	-5.27	1.39	1.45
1	9v	19	THR	CA-CB	-5.27	1.44	1.53
1	a1	120	HIS	CB-CG	-5.27	1.42	1.50
1	ak	141	ILE	CA-C	5.27	1.59	1.52
1	aO	198	CYS	CA-CB	5.27	1.62	1.54
1	aR	191	VAL	CA-C	-5.27	1.46	1.53
1	br	77	ALA	CA-CB	5.27	1.61	1.53
1	dX	6	LEU	C-N	5.27	1.40	1.33
1	e0	27	VAL	N-CA	5.27	1.53	1.46
1	e2	32	PHE	CA-CB	5.27	1.60	1.53
1	ea	87	HIS	CA-CB	5.27	1.62	1.53
1	1q	148	THR	C-N	5.27	1.40	1.33
1	eu	62	HIS	C-N	5.27	1.40	1.33
1	eG	25	LYS	CA-CB	5.27	1.61	1.53
1	fl	20	LEU	CA-C	5.27	1.59	1.52
1	1x	126	VAL	CA-CB	-5.27	1.47	1.54
1	fx	18	ARG	CA-CB	5.27	1.61	1.53
1	c	218	CYS	C-N	5.27	1.41	1.33
1	x	154	ARG	CZ-NH2	-5.27	1.26	1.33
1	z	131	LYS	CA-C	-5.27	1.45	1.52
1	g8	100	ARG	CA-CB	5.27	1.62	1.53
1	gc	41	SER	C-N	5.27	1.40	1.33
1	gp	201	ILE	CA-CB	5.27	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gG	149	SER	CA-C	-5.27	1.46	1.52
1	gU	32	PHE	N-CA	5.27	1.52	1.46
1	gW	174	ALA	CA-C	5.27	1.59	1.52
1	hc	97	ARG	CZ-NH2	-5.27	1.26	1.33
1	hp	207	PRO	C-N	5.27	1.41	1.33
1	ic	89	GLY	N-CA	5.27	1.51	1.44
1	iw	142	VAL	N-CA	-5.27	1.40	1.46
1	iH	12	HIS	CG-ND1	5.27	1.44	1.38
1	iJ	192	GLN	CA-CB	5.27	1.62	1.53
1	iJ	212	GLU	CA-CB	5.27	1.61	1.53
1	j1	60	GLY	CA-C	-5.27	1.44	1.51
1	jo	59	VAL	CA-CB	-5.27	1.47	1.54
1	jB	228	ALA	CA-CB	5.27	1.63	1.53
1	jM	167	ARG	CA-CB	5.27	1.61	1.53
1	1Z	161	PHE	C-N	5.27	1.40	1.33
1	k4	102	SER	N-CA	-5.27	1.39	1.46
1	k7	172	LEU	C-N	5.27	1.40	1.33
1	kg	167	ARG	CZ-NH2	-5.27	1.26	1.33
1	kg	185	MET	CA-CB	5.27	1.61	1.53
1	kk	178	SER	C-O	-5.27	1.17	1.23
1	kp	113	GLU	C-N	5.27	1.40	1.33
1	kz	23	TRP	C-N	5.27	1.40	1.33
1	kA	147	PRO	CA-CB	5.27	1.61	1.53
1	kM	24	VAL	CA-CB	-5.27	1.47	1.54
1	kO	76	GLU	CA-CB	5.27	1.62	1.53
1	kR	49	PRO	N-CD	-5.27	1.40	1.47
1	lb	69	LEU	N-CA	-5.27	1.40	1.46
1	lr	39	MET	CA-CB	5.27	1.61	1.53
1	ls	103	ASP	N-CA	5.27	1.52	1.46
1	lv	166	ASP	C-N	5.27	1.41	1.33
1	lA	114	GLN	CA-CB	5.27	1.61	1.53
1	lA	214	MET	CA-CB	5.27	1.61	1.53
1	lC	83	LEU	N-CA	5.27	1.53	1.46
1	2r	153	ILE	CA-C	-5.27	1.48	1.53
1	2x	30	LYS	CA-CB	5.27	1.61	1.54
1	2D	54	THR	C-N	5.27	1.40	1.33
1	2V	100	ARG	N-CA	5.27	1.52	1.45
1	30	195	ASN	CA-CB	5.27	1.61	1.53
1	3u	44	SER	C-N	5.27	1.41	1.33
1	3x	122	PRO	C-N	5.27	1.40	1.33
1	3I	21	ASN	CA-C	5.27	1.59	1.52
1	3T	131	LYS	CA-CB	5.27	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3Y	50	GLN	CG-CD	5.27	1.65	1.52
1	3Y	189	LEU	N-CA	5.27	1.52	1.46
1	4a	192	GLN	CA-CB	5.27	1.61	1.53
1	4w	107	THR	CA-CB	-5.27	1.45	1.53
1	4x	151	LEU	CA-C	5.27	1.59	1.52
1	4y	157	PRO	CA-C	-5.27	1.44	1.52
1	4E	39	MET	C-N	5.27	1.40	1.33
1	5v	217	ALA	C-N	5.27	1.41	1.33
1	5K	181	VAL	CA-C	-5.27	1.46	1.52
1	69	95	GLN	CA-C	-5.27	1.45	1.52
1	6a	97	ARG	CA-CB	5.27	1.62	1.53
1	6h	139	ASN	CA-C	5.27	1.59	1.52
1	6p	63	GLN	N-CA	-5.27	1.39	1.46
1	7c	119	THR	CB-OG1	-5.27	1.35	1.43
1	7c	128	GLU	CA-CB	5.27	1.61	1.53
1	7l	107	THR	CA-C	5.27	1.59	1.52
1	7z	64	ALA	CA-C	5.27	1.59	1.52
1	7D	69	LEU	CA-CB	5.27	1.61	1.53
1	7E	89	GLY	C-N	-5.27	1.27	1.33
1	7H	150	ILE	CA-C	5.27	1.59	1.52
1	7K	100	ARG	CD-NE	5.27	1.53	1.46
1	7V	117	TRP	CA-C	-5.27	1.45	1.52
1	8l	83	LEU	CA-CB	5.27	1.61	1.53
1	8I	123	PRO	C-N	5.27	1.37	1.33
1	8P	41	SER	CA-C	5.27	1.59	1.52
1	95	21	ASN	N-CA	5.27	1.52	1.46
1	9j	189	LEU	CA-CB	5.27	1.61	1.53
1	a6	172	LEU	CA-CB	5.27	1.61	1.53
1	af	76	GLU	CA-C	-5.27	1.46	1.52
1	ak	5	ASN	CA-C	-5.27	1.45	1.52
1	ao	23	TRP	C-N	5.27	1.40	1.33
1	aO	203	LYS	CA-CB	5.27	1.61	1.53
1	b2	169	TYR	C-N	5.27	1.40	1.33
1	b4	64	ALA	N-CA	5.27	1.52	1.46
1	bb	216	THR	C-N	5.27	1.41	1.33
1	bg	31	ALA	N-CA	5.27	1.52	1.46
1	bN	20	LEU	C-N	5.27	1.41	1.33
1	bR	100	ARG	CA-CB	-5.27	1.45	1.53
1	bX	42	ALA	N-CA	5.27	1.52	1.46
1	bY	166	ASP	C-N	5.27	1.40	1.33
1	1c	182	LYS	N-CA	-5.27	1.40	1.46
1	cB	45	GLU	CA-CB	5.27	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cD	5	ASN	C-N	5.27	1.40	1.33
1	cS	201	ILE	C-N	5.27	1.40	1.33
1	d2	51	ASP	C-N	5.27	1.40	1.33
1	d9	66	MET	CA-CB	5.27	1.61	1.53
1	dd	51	ASP	CA-C	-5.27	1.46	1.52
1	dn	170	LYS	CA-CB	5.27	1.61	1.53
1	dw	115	ILE	CA-CB	5.27	1.61	1.54
1	dH	41	SER	CA-CB	5.27	1.61	1.53
1	dH	141	ILE	C-N	5.27	1.40	1.33
1	dZ	170	LYS	N-CA	-5.27	1.40	1.46
1	ed	133	TRP	CA-C	-5.27	1.46	1.52
1	em	102	SER	N-CA	-5.27	1.40	1.46
1	es	197	ASP	CA-C	5.27	1.59	1.52
1	eK	78	ALA	N-CA	-5.27	1.39	1.46
1	eR	113	GLU	C-N	5.27	1.40	1.33
1	eU	164	TYR	CA-C	5.27	1.59	1.52
1	eU	216	THR	N-CA	-5.27	1.38	1.46
1	f3	28	GLU	N-CA	-5.27	1.40	1.46
1	1v	139	ASN	N-CA	-5.27	1.40	1.46
1	fo	85	PRO	N-CA	5.27	1.53	1.47
1	fL	50	GLN	CA-CB	5.27	1.61	1.53
1	fS	66	MET	CA-C	-5.27	1.46	1.52
1	fT	175	GLU	C-N	5.27	1.40	1.33
1	g0	25	LYS	N-CA	-5.27	1.40	1.46
1	d	222	GLY	CA-C	-5.27	1.44	1.51
1	p	135	ILE	C-N	5.27	1.40	1.33
1	t	98	GLU	CA-C	5.27	1.58	1.53
1	2	189	LEU	CA-CB	5.27	1.61	1.53
1	v	226	HIS	C-N	5.27	1.41	1.33
1	M	224	PRO	CA-C	5.27	1.58	1.52
1	O	12	HIS	CB-CG	5.27	1.57	1.50
1	8	38	PRO	N-CA	-5.27	1.40	1.47
1	8	81	ASP	CA-CB	5.27	1.62	1.53
1	gb	218	CYS	CA-C	-5.27	1.45	1.52
1	1C	120	HIS	CG-CD2	5.27	1.41	1.35
1	gq	106	GLY	CA-C	-5.27	1.44	1.51
1	gt	147	PRO	N-CD	5.27	1.55	1.47
1	gF	36	VAL	CA-CB	5.27	1.61	1.54
1	gY	146	SER	CA-C	5.27	1.58	1.52
1	h3	119	THR	CA-C	-5.27	1.45	1.52
1	hf	212	GLU	CA-CB	5.27	1.61	1.53
1	1I	76	GLU	CA-C	5.27	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hu	99	PRO	CA-C	-5.27	1.45	1.52
1	1K	17	PRO	C-N	5.27	1.41	1.33
1	hK	103	ASP	N-CA	-5.27	1.40	1.46
1	hU	178	SER	CA-CB	5.27	1.62	1.53
1	i3	105	ALA	CA-C	5.27	1.59	1.52
1	ik	189	LEU	N-CA	5.27	1.52	1.46
1	im	23	TRP	NE1-CE2	-5.27	1.31	1.37
1	iv	167	ARG	C-N	5.27	1.40	1.33
1	j9	171	THR	C-O	-5.27	1.17	1.24
1	js	121	ASN	CA-C	5.27	1.59	1.52
1	ju	229	ARG	CZ-NH2	-5.27	1.26	1.33
1	jK	54	THR	C-N	5.27	1.40	1.33
1	jV	153	ILE	C-N	5.27	1.40	1.33
1	jZ	9	GLN	CA-CB	5.27	1.62	1.53
1	k1	8	GLY	CA-C	-5.27	1.44	1.51
1	k2	224	PRO	CA-C	-5.27	1.46	1.52
1	k4	70	LYS	CA-C	5.27	1.59	1.52
1	kq	165	VAL	CA-C	-5.27	1.46	1.52
1	kS	114	GLN	C-N	5.27	1.40	1.33
1	lt	80	TRP	CA-C	-5.27	1.45	1.52
1	lJ	133	TRP	CA-C	-5.27	1.46	1.52
1	lL	197	ASP	CA-C	-5.27	1.45	1.52
1	lP	203	LYS	N-CA	5.27	1.53	1.46
1	lP	216	THR	CA-C	-5.27	1.45	1.52
1	2l	207	PRO	CA-C	5.27	1.57	1.52
1	2z	174	ALA	CA-CB	5.27	1.61	1.53
1	2X	204	ALA	CA-CB	5.27	1.62	1.53
1	30	9	GLN	CA-C	5.27	1.59	1.52
1	38	112	GLN	CA-CB	5.27	1.61	1.53
1	39	129	ILE	N-CA	-5.27	1.40	1.46
1	3f	30	LYS	CA-C	5.27	1.59	1.52
1	3D	120	HIS	ND1-CE1	5.27	1.37	1.32
1	3I	217	ALA	N-CA	-5.27	1.39	1.46
1	3N	165	VAL	CA-C	5.27	1.60	1.52
1	3Q	156	GLY	N-CA	5.27	1.50	1.43
1	4h	222	GLY	CA-C	-5.27	1.44	1.51
1	4y	54	THR	CA-CB	5.27	1.61	1.53
1	54	36	VAL	N-CA	-5.27	1.40	1.46
1	5h	18	ARG	CD-NE	5.27	1.53	1.46
1	5z	199	LYS	CA-C	-5.27	1.45	1.52
1	5O	21	ASN	C-N	-5.27	1.27	1.33
1	69	206	GLY	CA-C	-5.27	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6l	199	LYS	C-N	5.27	1.40	1.33
1	6o	133	TRP	CA-CB	5.27	1.62	1.53
1	6v	112	GLN	N-CA	5.27	1.52	1.46
1	6L	75	GLU	CA-CB	5.27	1.61	1.53
1	6M	130	TYR	CA-C	5.27	1.59	1.52
1	6O	127	GLY	C-N	5.27	1.40	1.33
1	70	73	ILE	N-CA	-5.27	1.40	1.46
1	72	145	TYR	N-CA	5.27	1.53	1.46
1	73	128	GLU	CA-C	5.27	1.59	1.52
1	7d	56	LEU	CA-CB	5.27	1.61	1.53
1	7l	193	ASN	CA-C	-5.27	1.46	1.52
1	7S	23	TRP	C-N	5.27	1.40	1.33
1	80	226	HIS	N-CA	-5.27	1.39	1.46
1	8w	224	PRO	CA-CB	-5.27	1.46	1.53
1	9E	178	SER	C-N	5.27	1.40	1.33
1	9G	53	ASN	C-O	5.27	1.30	1.24
1	9G	133	TRP	CA-CB	5.27	1.61	1.53
1	9Z	170	LYS	C-N	5.27	1.41	1.33
1	a5	191	VAL	N-CA	5.27	1.52	1.46
1	ad	133	TRP	NE1-CE2	5.27	1.43	1.37
1	aq	123	PRO	N-CA	5.27	1.54	1.47
1	ar	212	GLU	CA-CB	5.27	1.61	1.53
1	az	44	SER	CA-C	-5.27	1.45	1.52
1	aD	54	THR	N-CA	-5.27	1.40	1.46
1	aF	25	LYS	C-N	5.27	1.40	1.33
1	ba	71	GLU	CA-CB	5.27	1.62	1.53
1	bf	30	LYS	C-N	5.27	1.41	1.33
1	bv	103	ASP	C-N	5.27	1.40	1.33
1	bx	68	MET	C-N	5.27	1.41	1.33
1	bG	23	TRP	C-N	5.27	1.40	1.33
1	bH	16	SER	CA-C	5.27	1.58	1.53
1	bR	97	ARG	CA-C	5.27	1.59	1.52
1	bZ	107	THR	CA-CB	-5.27	1.45	1.53
1	c0	47	ALA	CA-C	5.27	1.59	1.52
1	cu	29	GLU	C-O	5.27	1.30	1.24
1	cE	103	ASP	CA-C	-5.27	1.46	1.52
1	cH	55	MET	CA-C	-5.27	1.46	1.52
1	cH	186	THR	N-CA	-5.27	1.39	1.46
1	cX	226	HIS	CD2-NE2	5.27	1.43	1.37
1	d4	34	PRO	CA-CB	5.27	1.61	1.53
1	d4	135	ILE	CA-CB	5.27	1.61	1.54
1	dk	152	ASP	CA-CB	5.27	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dl	114	GLN	CA-C	5.27	1.59	1.52
1	dL	33	SER	CA-C	-5.27	1.46	1.52
1	dS	34	PRO	CA-CB	-5.27	1.46	1.53
1	dW	18	ARG	CD-NE	5.27	1.53	1.46
1	e1	5	ASN	C-N	5.27	1.40	1.33
1	eC	88	ALA	CA-C	5.27	1.59	1.52
1	eP	80	TRP	C-N	5.27	1.40	1.33
1	eZ	193	ASN	CA-C	5.27	1.60	1.52
1	f2	188	THR	C-O	-5.27	1.17	1.24
1	f5	114	GLN	C-O	-5.27	1.17	1.24
1	f6	188	THR	CA-CB	-5.27	1.44	1.53
1	fc	229	ARG	CA-CB	5.27	1.60	1.53
1	fr	12	HIS	ND1-CE1	5.27	1.37	1.32
1	fr	221	VAL	N-CA	5.27	1.53	1.46
1	fx	26	VAL	CA-CB	-5.27	1.48	1.54
1	fD	83	LEU	CA-C	-5.27	1.45	1.52
1	fI	30	LYS	N-CA	5.27	1.52	1.46
1	fT	169	TYR	N-CA	5.27	1.53	1.46
1	fX	226	HIS	CA-C	-5.27	1.45	1.52
1	d	63	GLN	CA-CB	5.27	1.62	1.53
1	f	147	PRO	C-N	5.27	1.40	1.33
1	i	82	ARG	CA-C	-5.27	1.46	1.52
1	j	179	GLN	CA-CB	5.27	1.61	1.53
1	p	95	GLN	C-N	-5.27	1.26	1.33
1	t	26	VAL	CA-CB	-5.27	1.48	1.54
1	A	59	VAL	C-N	-5.27	1.25	1.33
1	J	12	HIS	N-CA	-5.27	1.39	1.46
1	J	144	MET	CA-CB	5.27	1.62	1.53
1	S	118	MET	N-CA	-5.27	1.39	1.46
1	gy	125	PRO	CA-C	-5.27	1.48	1.53
1	hd	132	ARG	N-CA	5.27	1.52	1.46
1	hr	119	THR	CB-OG1	-5.27	1.35	1.43
1	hG	179	GLN	C-N	5.27	1.40	1.33
1	hJ	229	ARG	CA-CB	5.27	1.60	1.52
1	iv	84	HIS	CD2-NE2	5.27	1.43	1.37
1	iS	97	ARG	N-CA	5.27	1.52	1.45
1	jV	87	HIS	ND1-CE1	5.27	1.37	1.32
1	20	113	GLU	CA-CB	5.27	1.61	1.53
1	kM	175	GLU	CA-C	5.27	1.59	1.52
1	l4	145	TYR	CA-C	5.27	1.57	1.52
1	li	93	PRO	CA-CB	5.27	1.60	1.53
1	2E	29	GLU	CA-C	5.27	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3g	219	GLN	N-CA	5.27	1.52	1.45
1	3r	193	ASN	CA-CB	5.27	1.62	1.53
1	46	156	GLY	N-CA	5.27	1.50	1.43
1	4n	141	ILE	CA-C	5.27	1.60	1.52
1	4I	3	VAL	N-CA	-5.27	1.40	1.46
1	59	86	VAL	C-O	5.27	1.29	1.24
1	5g	183	ASN	CA-CB	5.27	1.61	1.53
1	5A	79	GLU	N-CA	-5.27	1.40	1.46
1	5P	125	PRO	CA-C	-5.27	1.46	1.53
1	6l	142	VAL	CA-CB	5.27	1.60	1.54
1	6m	181	VAL	CA-CB	-5.27	1.47	1.54
1	6Q	98	GLU	CA-C	5.27	1.59	1.52
1	6X	26	VAL	C-N	5.27	1.40	1.33
1	74	175	GLU	CA-CB	5.27	1.61	1.53
1	75	35	GLU	CA-C	5.27	1.60	1.52
1	7j	88	ALA	CA-CB	5.27	1.61	1.53
1	7j	214	MET	N-CA	-5.27	1.40	1.46
1	7V	87	HIS	ND1-CE1	5.27	1.37	1.32
1	81	132	ARG	NE-CZ	-5.27	1.27	1.33
1	8r	65	ALA	CA-CB	5.27	1.61	1.53
1	8u	51	ASP	CA-CB	5.27	1.61	1.53
1	8G	183	ASN	N-CA	5.27	1.52	1.46
1	8J	226	HIS	CE1-NE2	-5.27	1.27	1.32
1	93	194	ALA	C-N	5.27	1.41	1.33
1	9h	179	GLN	N-CA	-5.27	1.40	1.46
1	a5	84	HIS	ND1-CE1	5.27	1.37	1.32
1	ax	216	THR	CA-C	5.27	1.60	1.52
1	aV	143	ARG	CD-NE	5.27	1.53	1.46
1	bX	121	ASN	CA-CB	5.27	1.62	1.53
1	cZ	230	VAL	CA-CB	5.27	1.60	1.54
1	dj	141	ILE	CA-C	-5.27	1.46	1.52
1	dw	4	GLN	N-CA	-5.27	1.40	1.46
1	dD	167	ARG	CD-NE	5.27	1.53	1.46
1	1m	5	ASN	C-N	5.27	1.39	1.33
1	dI	87	HIS	ND1-CE1	5.27	1.37	1.32
1	dN	195	ASN	CA-CB	5.27	1.61	1.53
1	dT	170	LYS	CA-C	-5.27	1.46	1.52
1	e7	68	MET	C-N	5.27	1.41	1.33
1	eF	123	PRO	C-N	5.27	1.37	1.33
1	f4	64	ALA	N-CA	5.27	1.52	1.46
1	f7	58	THR	N-CA	5.27	1.53	1.46
1	1x	87	HIS	C-N	5.27	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fy	58	THR	C-O	-5.27	1.17	1.24
1	fW	66	MET	CA-CB	5.27	1.61	1.53
1	g0	4	GLN	C-N	5.27	1.41	1.33
1	g7	181	VAL	CA-C	5.27	1.59	1.52
1	4	75	GLU	CA-CB	-5.27	1.45	1.53
1	4	201	ILE	C-N	5.27	1.40	1.33
1	gl	201	ILE	CA-C	5.26	1.59	1.52
1	gu	189	LEU	C-O	-5.26	1.17	1.24
1	gD	133	TRP	N-CA	5.26	1.52	1.46
1	gK	21	ASN	C-N	5.26	1.40	1.33
1	gK	62	HIS	CE1-NE2	5.26	1.37	1.32
1	gP	216	THR	CA-C	-5.26	1.45	1.52
1	gV	109	SER	C-N	5.26	1.40	1.33
1	h2	189	LEU	CA-C	5.26	1.59	1.52
1	hk	84	HIS	C-O	-5.26	1.19	1.24
1	hq	111	LEU	N-CA	-5.26	1.40	1.46
1	1L	130	TYR	C-N	5.26	1.40	1.33
1	hM	159	GLU	N-CA	-5.26	1.39	1.45
1	hN	226	HIS	N-CA	5.26	1.53	1.46
1	hW	154	ARG	N-CA	-5.26	1.39	1.46
1	ia	178	SER	CA-CB	5.26	1.62	1.53
1	ic	120	HIS	CA-C	-5.26	1.46	1.52
1	iQ	132	ARG	NE-CZ	-5.26	1.27	1.33
1	jk	170	LYS	CA-C	5.26	1.59	1.52
1	jx	11	VAL	C-N	5.26	1.41	1.33
1	jA	23	TRP	CA-CB	5.26	1.61	1.53
1	jF	228	ALA	C-N	5.26	1.41	1.34
1	1Y	105	ALA	C-N	5.26	1.41	1.33
1	jQ	88	ALA	CA-CB	5.26	1.62	1.53
1	k0	20	LEU	CA-C	5.26	1.59	1.52
1	k2	108	THR	CA-C	-5.26	1.45	1.52
1	k2	125	PRO	CA-CB	5.26	1.59	1.53
1	k3	74	ASN	N-CA	-5.26	1.39	1.46
1	k5	125	PRO	CA-CB	-5.26	1.47	1.53
1	ka	13	GLN	C-N	5.26	1.40	1.33
1	kd	55	MET	N-CA	-5.26	1.40	1.46
1	kC	164	TYR	CG-CD1	5.26	1.50	1.39
1	l3	144	MET	CA-C	5.26	1.59	1.52
1	lg	74	ASN	CA-CB	5.26	1.62	1.53
1	lu	229	ARG	CZ-NH2	-5.26	1.26	1.33
1	lF	88	ALA	CA-CB	5.26	1.62	1.53
1	lH	217	ALA	C-N	5.26	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lK	37	ILE	CA-C	5.26	1.58	1.52
1	lO	179	GLN	C-O	-5.26	1.17	1.24
1	lP	6	LEU	CB-CG	5.26	1.64	1.53
1	2S	160	PRO	CA-CB	5.26	1.61	1.53
1	2T	11	VAL	C-N	5.26	1.40	1.33
1	30	144	MET	C-N	5.26	1.41	1.33
1	37	142	VAL	CA-CB	-5.26	1.48	1.54
1	3n	168	PHE	CA-CB	5.26	1.61	1.53
1	3v	31	ALA	C-N	-5.26	1.26	1.33
1	3I	192	GLN	C-O	-5.26	1.17	1.24
1	3M	165	VAL	CA-C	-5.26	1.46	1.52
1	3O	53	ASN	CA-CB	5.26	1.61	1.53
1	3Q	175	GLU	CA-C	5.26	1.59	1.52
1	3Y	65	ALA	N-CA	5.26	1.52	1.46
1	47	20	LEU	C-N	5.26	1.41	1.33
1	4v	167	ARG	CD-NE	5.26	1.53	1.46
1	4z	94	GLY	C-O	5.26	1.31	1.23
1	4L	81	ASP	CA-CB	5.26	1.61	1.53
1	4L	172	LEU	N-CA	-5.26	1.40	1.46
1	4U	221	VAL	N-CA	-5.26	1.40	1.46
1	4V	150	ILE	CA-CB	-5.26	1.48	1.54
1	4W	182	LYS	CA-C	-5.26	1.45	1.52
1	4Z	208	ALA	N-CA	5.26	1.54	1.46
1	50	162	ARG	C-N	5.26	1.41	1.34
1	52	98	GLU	CA-C	5.26	1.59	1.53
1	5m	70	LYS	C-N	5.26	1.40	1.33
1	5n	98	GLU	N-CA	-5.26	1.39	1.45
1	5s	93	PRO	CA-C	-5.26	1.46	1.52
1	5B	207	PRO	C-O	-5.26	1.18	1.24
1	5R	154	ARG	N-CA	-5.26	1.39	1.45
1	5S	62	HIS	CE1-NE2	5.26	1.37	1.32
1	66	180	GLU	C-O	-5.26	1.18	1.24
1	6l	212	GLU	C-N	5.26	1.40	1.33
1	6t	133	TRP	N-CA	5.26	1.52	1.46
1	6J	22	ALA	CA-C	-5.26	1.45	1.52
1	6J	227	LYS	CA-C	5.26	1.59	1.52
1	79	138	LEU	C-O	-5.26	1.18	1.24
1	7q	20	LEU	N-CA	-5.26	1.40	1.46
1	7T	136	LEU	CA-C	-5.26	1.46	1.52
1	7U	189	LEU	C-N	5.26	1.40	1.33
1	7X	53	ASN	C-N	5.26	1.40	1.33
1	7X	173	ARG	CZ-NH2	-5.26	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8q	205	LEU	CA-CB	5.26	1.61	1.53
1	9D	5	ASN	C-N	5.26	1.40	1.33
1	9T	28	GLU	CA-CB	5.26	1.61	1.53
1	9V	14	ALA	C-N	5.26	1.39	1.33
1	Z	224	PRO	N-CA	-5.26	1.40	1.47
1	aj	108	THR	C-N	5.26	1.40	1.33
1	am	15	ILE	CA-CB	-5.26	1.49	1.54
1	an	83	LEU	CA-CB	5.26	1.61	1.53
1	ay	136	LEU	CA-C	5.26	1.59	1.52
1	aB	106	GLY	N-CA	5.26	1.52	1.44
1	aD	229	ARG	CD-NE	5.26	1.53	1.46
1	b2	201	ILE	C-N	5.26	1.40	1.33
1	bl	215	MET	C-O	-5.26	1.17	1.24
1	bF	32	PHE	C-O	5.26	1.30	1.24
1	bF	214	MET	C-O	-5.26	1.18	1.24
1	cm	96	MET	CA-CB	5.26	1.61	1.53
1	cv	135	ILE	C-N	5.26	1.40	1.33
1	cK	7	GLN	CA-C	5.26	1.59	1.52
1	d1	166	ASP	N-CA	-5.26	1.40	1.46
1	dd	126	VAL	CA-CB	-5.26	1.46	1.54
1	dj	39	MET	CA-CB	5.26	1.61	1.53
1	dp	154	ARG	NE-CZ	-5.26	1.27	1.33
1	dw	163	ASP	CA-C	5.26	1.59	1.52
1	dx	200	THR	C-N	5.26	1.40	1.33
1	dy	172	LEU	C-N	5.26	1.41	1.34
1	dF	169	TYR	CB-CG	5.26	1.63	1.51
1	dS	221	VAL	CA-C	-5.26	1.46	1.52
1	dT	47	ALA	CA-CB	5.26	1.61	1.53
1	dU	31	ALA	CA-C	-5.26	1.48	1.53
1	ec	201	ILE	C-O	-5.26	1.18	1.24
1	1q	154	ARG	CA-C	-5.26	1.46	1.52
1	ey	93	PRO	CA-CB	-5.26	1.46	1.53
1	eD	189	LEU	C-N	5.26	1.40	1.33
1	eQ	18	ARG	CA-C	-5.26	1.46	1.52
1	eU	7	GLN	CA-C	5.26	1.58	1.52
1	f0	196	PRO	N-CD	5.26	1.55	1.47
1	f4	32	PHE	CA-C	5.26	1.60	1.52
1	fd	178	SER	N-CA	-5.26	1.39	1.46
1	fW	84	HIS	ND1-CE1	5.26	1.37	1.32
1	p	226	HIS	ND1-CE1	5.26	1.37	1.32
1	q	120	HIS	CG-ND1	5.26	1.44	1.38
1	y	111	LEU	C-N	5.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	198	CYS	CA-CB	5.26	1.61	1.53
1	T	211	LEU	N-CA	-5.26	1.39	1.46
1	gp	158	LYS	C-N	5.26	1.41	1.33
1	1E	37	ILE	CA-C	5.26	1.57	1.52
1	hG	221	VAL	N-CA	5.26	1.52	1.46
1	hH	25	LYS	CA-CB	5.26	1.61	1.53
1	1N	83	LEU	CA-CB	5.26	1.61	1.53
1	ih	55	MET	CA-C	-5.26	1.46	1.52
1	is	29	GLU	C-N	5.26	1.42	1.33
1	iO	10	MET	CA-CB	5.26	1.62	1.53
1	j2	169	TYR	C-O	-5.26	1.18	1.24
1	je	183	ASN	C-N	5.26	1.40	1.33
1	jj	93	PRO	N-CD	-5.26	1.40	1.47
1	ju	213	GLU	CA-CB	5.26	1.61	1.53
1	jL	10	MET	CA-CB	5.26	1.61	1.53
1	k5	88	ALA	CA-CB	5.26	1.62	1.54
1	kB	102	SER	C-N	5.26	1.41	1.33
1	lm	225	GLY	CA-C	5.26	1.61	1.52
1	lG	68	MET	C-N	5.26	1.41	1.33
1	lP	131	LYS	CA-CB	5.26	1.61	1.53
1	2U	16	SER	N-CA	5.26	1.53	1.45
1	39	185	MET	N-CA	-5.26	1.40	1.46
1	3a	25	LYS	C-N	5.26	1.40	1.33
1	3v	130	TYR	C-N	5.26	1.40	1.33
1	3O	31	ALA	C-O	-5.26	1.17	1.24
1	3X	90	PRO	CA-CB	-5.26	1.46	1.53
1	4X	72	THR	N-CA	5.26	1.52	1.46
1	54	70	LYS	N-CA	-5.26	1.39	1.46
1	59	174	ALA	CA-C	-5.26	1.46	1.52
1	5g	69	LEU	CA-C	-5.26	1.46	1.52
1	61	196	PRO	N-CA	-5.26	1.40	1.47
1	73	130	TYR	N-CA	5.26	1.52	1.46
1	7d	73	ILE	CA-CB	-5.26	1.48	1.54
1	7u	48	THR	N-CA	5.26	1.53	1.45
1	7K	157	PRO	N-CA	5.26	1.54	1.47
1	7K	211	LEU	CA-CB	5.26	1.62	1.53
1	7L	226	HIS	CE1-NE2	5.26	1.37	1.32
1	8j	52	LEU	C-N	5.26	1.40	1.33
1	8w	119	THR	CA-C	-5.26	1.46	1.52
1	8D	136	LEU	C-O	5.26	1.30	1.24
1	8V	57	ASN	CA-CB	5.26	1.63	1.53
1	9p	95	GLN	C-N	5.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9x	36	VAL	CA-CB	-5.26	1.47	1.54
1	9J	23	TRP	CA-CB	5.26	1.62	1.53
1	9O	75	GLU	CA-C	-5.26	1.46	1.52
1	9P	24	VAL	N-CA	-5.26	1.40	1.46
1	9W	29	GLU	C-N	5.26	1.40	1.33
1	a2	178	SER	CA-CB	5.26	1.62	1.53
1	ad	6	LEU	CA-CB	5.26	1.61	1.53
1	ao	183	ASN	CA-C	5.26	1.59	1.52
1	13	85	PRO	CA-CB	5.26	1.61	1.53
1	b6	48	THR	N-CA	5.26	1.53	1.45
1	bh	209	ALA	CA-C	5.26	1.59	1.52
1	bk	174	ALA	CA-C	5.26	1.60	1.52
1	bR	88	ALA	C-N	5.26	1.41	1.33
1	c4	84	HIS	CA-CB	5.26	1.60	1.52
1	cG	154	ARG	CZ-NH2	-5.26	1.26	1.33
1	dX	208	ALA	C-O	-5.26	1.17	1.24
1	ea	170	LYS	CA-C	-5.26	1.46	1.52
1	1p	146	SER	CA-C	-5.26	1.45	1.52
1	ef	223	GLY	C-N	5.26	1.40	1.34
1	er	176	GLN	C-N	5.26	1.40	1.33
1	fc	87	HIS	ND1-CE1	5.26	1.37	1.32
1	fi	103	ASP	CA-C	-5.26	1.46	1.52
1	fy	180	GLU	C-O	5.26	1.30	1.24
1	e	135	ILE	CA-CB	-5.26	1.48	1.54
1	l	114	GLN	C-N	5.26	1.40	1.33
1	o	167	ARG	CA-CB	5.26	1.61	1.53
1	8	76	GLU	C-O	5.26	1.30	1.24
1	gD	212	GLU	N-CA	5.26	1.52	1.46
1	gH	146	SER	C-N	5.26	1.38	1.33
1	gY	172	LEU	N-CA	-5.26	1.39	1.46
1	gZ	140	LYS	CA-C	5.26	1.59	1.52
1	gZ	213	GLU	CA-CB	5.26	1.61	1.53
1	hm	162	ARG	CD-NE	5.26	1.53	1.46
1	hu	71	GLU	CA-C	-5.26	1.46	1.52
1	hu	81	ASP	C-N	-5.26	1.26	1.33
1	hx	126	VAL	N-CA	5.26	1.52	1.46
1	hy	178	SER	CA-CB	5.26	1.62	1.53
1	hO	160	PRO	N-CD	-5.26	1.40	1.47
1	1M	183	ASN	N-CA	5.26	1.52	1.46
1	ix	62	HIS	CE1-NE2	5.26	1.37	1.32
1	iz	4	GLN	C-N	-5.26	1.25	1.33
1	iJ	98	GLU	C-N	5.26	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iL	189	LEU	CA-C	5.26	1.59	1.52
1	iR	132	ARG	CD-NE	5.26	1.53	1.46
1	js	208	ALA	C-N	5.26	1.41	1.33
1	jt	22	ALA	CA-CB	5.26	1.61	1.53
1	ju	175	GLU	C-N	-5.26	1.25	1.33
1	jy	42	ALA	C-N	5.26	1.41	1.33
1	1X	23	TRP	CA-CB	5.26	1.61	1.53
1	1X	138	LEU	CA-CB	5.26	1.61	1.53
1	jM	228	ALA	N-CA	-5.26	1.38	1.45
1	jP	204	ALA	N-CA	5.26	1.52	1.46
1	k4	227	LYS	N-CA	-5.26	1.39	1.45
1	kc	13	GLN	CA-CB	5.26	1.61	1.53
1	kg	4	GLN	N-CA	-5.26	1.39	1.46
1	kh	134	ILE	CA-CB	-5.26	1.48	1.54
1	kn	1	PRO	N-CD	5.26	1.55	1.47
1	kp	6	LEU	CA-CB	5.26	1.62	1.53
1	kw	45	GLU	CA-C	5.26	1.59	1.52
1	kR	125	PRO	C-N	5.26	1.40	1.33
1	kV	92	GLU	CA-C	5.26	1.59	1.52
1	l2	54	THR	C-N	5.26	1.40	1.33
1	lm	6	LEU	CA-C	5.26	1.59	1.52
1	ln	132	ARG	N-CA	-5.26	1.40	1.46
1	lu	117	TRP	CA-C	-5.26	1.46	1.52
1	lE	194	ALA	N-CA	-5.26	1.39	1.46
1	lK	208	ALA	N-CA	-5.26	1.39	1.46
1	lN	14	ALA	CA-CB	5.26	1.61	1.53
1	lN	68	MET	CA-C	5.26	1.59	1.52
1	2r	132	ARG	N-CA	-5.26	1.39	1.46
1	2J	165	VAL	C-O	-5.26	1.18	1.24
1	34	143	ARG	C-O	-5.26	1.18	1.24
1	3p	4	GLN	CA-C	5.26	1.59	1.52
1	3z	125	PRO	C-N	5.26	1.40	1.34
1	41	161	PHE	N-CA	-5.26	1.39	1.46
1	4e	69	LEU	C-O	-5.26	1.18	1.24
1	4r	62	HIS	N-CA	-5.26	1.38	1.46
1	4s	131	LYS	C-O	-5.26	1.17	1.24
1	5a	223	GLY	CA-C	5.26	1.59	1.51
1	5S	94	GLY	N-CA	5.26	1.52	1.45
1	6o	33	SER	CA-C	-5.26	1.46	1.52
1	6o	37	ILE	CA-C	-5.26	1.47	1.52
1	6w	138	LEU	CA-CB	5.26	1.61	1.53
1	6x	70	LYS	C-N	5.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7e	46	GLY	C-N	5.26	1.40	1.33
1	7p	74	ASN	CA-C	5.26	1.59	1.52
1	7s	20	LEU	N-CA	-5.26	1.40	1.46
1	7y	150	ILE	CA-CB	-5.26	1.47	1.54
1	8g	167	ARG	CD-NE	5.26	1.53	1.46
1	8s	185	MET	CA-CB	5.26	1.61	1.53
1	8t	60	GLY	N-CA	-5.26	1.37	1.45
1	8v	55	MET	CA-C	5.26	1.59	1.52
1	8A	20	LEU	CA-CB	5.26	1.61	1.53
1	8N	127	GLY	CA-C	-5.26	1.46	1.52
1	91	192	GLN	C-N	5.26	1.40	1.33
1	92	151	LEU	CA-CB	5.26	1.62	1.53
1	9r	192	GLN	CA-CB	5.26	1.61	1.53
1	9v	132	ARG	CD-NE	5.26	1.53	1.46
1	9x	98	GLU	N-CA	-5.26	1.37	1.46
1	9z	230	VAL	CA-C	5.26	1.58	1.52
1	9Y	213	GLU	CA-C	5.26	1.60	1.52
1	13	99	PRO	CA-C	5.26	1.58	1.52
1	aR	108	THR	CA-C	5.26	1.59	1.52
1	aT	106	GLY	N-CA	5.26	1.52	1.45
1	b5	135	ILE	CA-C	-5.26	1.46	1.52
1	b8	162	ARG	CD-NE	5.26	1.53	1.46
1	bp	126	VAL	CA-C	5.26	1.60	1.52
1	by	50	GLN	CA-CB	5.26	1.61	1.53
1	bE	123	PRO	C-N	5.26	1.38	1.33
1	bG	212	GLU	CA-C	5.26	1.59	1.52
1	bS	180	GLU	N-CA	-5.26	1.39	1.46
1	c7	150	ILE	CA-CB	5.26	1.61	1.54
1	cb	107	THR	CA-CB	-5.26	1.46	1.54
1	cf	16	SER	CA-C	5.26	1.58	1.52
1	ci	139	ASN	CA-C	-5.26	1.46	1.52
1	cu	58	THR	N-CA	5.26	1.52	1.46
1	cz	142	VAL	CA-CB	-5.26	1.48	1.54
1	di	87	HIS	ND1-CE1	5.26	1.37	1.32
1	ds	163	ASP	CA-CB	5.26	1.61	1.53
1	du	37	ILE	N-CA	-5.26	1.40	1.46
1	dK	94	GLY	CA-C	-5.26	1.43	1.51
1	dT	199	LYS	C-O	-5.26	1.18	1.24
1	e8	143	ARG	CA-CB	5.26	1.62	1.53
1	ei	77	ALA	N-CA	-5.26	1.40	1.46
1	ep	197	ASP	N-CA	5.26	1.53	1.46
1	es	158	LYS	CA-C	-5.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ew	2	ILE	N-CA	-5.26	1.39	1.46
1	eB	169	TYR	N-CA	-5.26	1.40	1.46
1	1t	6	LEU	CA-CB	5.26	1.61	1.54
1	eT	223	GLY	C-N	5.26	1.40	1.33
1	f1	136	LEU	CA-CB	5.26	1.61	1.53
1	fn	228	ALA	C-O	5.26	1.30	1.24
1	fy	182	LYS	C-N	5.26	1.41	1.33
1	g1	167	ARG	C-N	5.26	1.40	1.33
1	g7	22	ALA	CA-C	-5.26	1.46	1.52
1	x	120	HIS	ND1-CE1	5.26	1.37	1.32
1	x	165	VAL	CA-CB	-5.26	1.48	1.54
1	G	92	GLU	CA-C	5.26	1.59	1.53
1	M	133	TRP	N-CA	5.26	1.52	1.46
1	P	34	PRO	CA-C	5.26	1.60	1.52
1	7	21	ASN	C-N	-5.26	1.26	1.33
1	gk	104	ILE	C-O	-5.26	1.17	1.24
1	gA	224	PRO	C-N	5.26	1.40	1.33
1	gL	53	ASN	C-N	5.26	1.40	1.33
1	gL	199	LYS	N-CA	-5.26	1.40	1.46
1	hd	33	SER	CA-CB	5.26	1.65	1.54
1	hh	186	THR	N-CA	-5.26	1.40	1.46
1	ho	51	ASP	CA-C	5.26	1.59	1.52
1	hp	176	GLN	N-CA	-5.26	1.39	1.46
1	hx	59	VAL	C-O	5.26	1.29	1.24
1	i0	80	TRP	CA-CB	5.26	1.61	1.53
1	i2	229	ARG	N-CA	-5.26	1.40	1.46
1	1O	111	LEU	C-O	-5.26	1.18	1.24
1	io	173	ARG	C-N	5.26	1.41	1.33
1	1Q	215	MET	CA-CB	-5.26	1.44	1.53
1	iY	27	VAL	CA-CB	5.26	1.61	1.54
1	1T	47	ALA	CA-C	5.26	1.59	1.52
1	1T	180	GLU	C-N	5.26	1.40	1.33
1	1U	157	PRO	N-CD	-5.26	1.40	1.47
1	jc	69	LEU	C-N	5.26	1.40	1.33
1	kd	19	THR	N-CA	5.26	1.52	1.46
1	21	34	PRO	CA-CB	5.26	1.61	1.53
1	kq	78	ALA	C-O	-5.26	1.17	1.24
1	kt	140	LYS	C-N	5.26	1.40	1.33
1	ku	81	ASP	CA-CB	5.26	1.61	1.53
1	kF	113	GLU	C-N	-5.26	1.26	1.33
1	kJ	74	ASN	CA-CB	5.26	1.61	1.53
1	kK	35	GLU	C-N	5.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kL	198	CYS	CA-C	5.26	1.59	1.52
1	kP	70	LYS	CA-CB	5.26	1.62	1.53
1	kP	82	ARG	CD-NE	5.26	1.53	1.46
1	kQ	100	ARG	CA-CB	5.26	1.62	1.53
1	kR	20	LEU	N-CA	5.26	1.52	1.46
1	25	96	MET	CA-C	5.26	1.59	1.52
1	l9	12	HIS	CD2-NE2	5.26	1.43	1.37
1	lA	169	TYR	CA-CB	5.26	1.62	1.53
1	lG	85	PRO	CA-CB	5.26	1.60	1.53
1	lK	84	HIS	CA-C	5.26	1.59	1.52
1	2c	17	PRO	C-N	5.26	1.40	1.33
1	2Y	124	ILE	CA-CB	5.26	1.59	1.53
1	38	226	HIS	CA-C	-5.26	1.46	1.53
1	3y	131	LYS	C-N	5.26	1.40	1.33
1	3N	147	PRO	CA-CB	5.26	1.61	1.53
1	45	137	GLY	CA-C	-5.26	1.44	1.51
1	47	56	LEU	CA-C	-5.26	1.45	1.52
1	4h	85	PRO	CA-CB	5.26	1.59	1.53
1	4l	178	SER	CA-CB	5.26	1.61	1.53
1	4r	214	MET	CA-C	5.26	1.59	1.52
1	4P	3	VAL	N-CA	-5.26	1.40	1.46
1	4P	210	THR	C-N	5.26	1.40	1.33
1	67	176	GLN	CA-CB	5.26	1.61	1.53
1	6a	213	GLU	N-CA	-5.26	1.40	1.46
1	6Q	38	PRO	C-N	5.26	1.40	1.33
1	6Q	47	ALA	N-CA	5.26	1.52	1.46
1	6W	3	VAL	N-CA	5.26	1.51	1.46
1	73	125	PRO	C-N	5.26	1.40	1.33
1	7N	12	HIS	CA-C	-5.26	1.46	1.52
1	82	62	HIS	CA-CB	5.26	1.61	1.53
1	8i	128	GLU	C-N	5.26	1.40	1.33
1	8w	130	TYR	C-O	-5.26	1.18	1.24
1	8G	226	HIS	CG-CD2	5.26	1.41	1.35
1	8K	160	PRO	N-CD	-5.26	1.40	1.47
1	96	218	CYS	C-N	5.26	1.41	1.33
1	9d	27	VAL	C-O	-5.26	1.18	1.24
1	9x	1	PRO	N-CD	5.26	1.55	1.47
1	9z	135	ILE	CB-CG1	5.26	1.64	1.53
1	9E	162	ARG	C-N	5.26	1.41	1.33
1	9L	197	ASP	CA-CB	5.26	1.61	1.53
1	ac	121	ASN	C-O	-5.26	1.18	1.24
1	as	229	ARG	CA-C	5.26	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	az	83	LEU	CA-C	5.26	1.59	1.52
1	bb	132	ARG	CA-CB	5.26	1.61	1.53
1	bi	208	ALA	N-CA	-5.26	1.39	1.46
1	bw	80	TRP	NE1-CE2	-5.26	1.31	1.37
1	bM	131	LYS	CA-C	5.26	1.59	1.52
1	bS	129	ILE	CA-C	5.26	1.59	1.52
1	c2	158	LYS	C-N	5.26	1.42	1.33
1	1d	130	TYR	CA-CB	5.26	1.61	1.53
1	cv	102	SER	CA-CB	5.26	1.61	1.53
1	cy	60	GLY	CA-C	5.26	1.59	1.51
1	cY	117	TRP	N-CA	5.26	1.53	1.46
1	cZ	113	GLU	N-CA	5.26	1.52	1.46
1	d7	222	GLY	CA-C	-5.26	1.46	1.52
1	dh	109	SER	CA-C	-5.26	1.46	1.52
1	dz	33	SER	CA-CB	5.26	1.61	1.54
1	dM	186	THR	C-N	5.26	1.40	1.33
1	1o	7	GLN	CA-CB	5.26	1.60	1.53
1	en	195	ASN	CA-CB	5.26	1.60	1.53
1	en	217	ALA	C-N	5.26	1.41	1.33
1	eu	71	GLU	CA-C	-5.26	1.46	1.52
1	1s	74	ASN	CA-C	5.26	1.59	1.52
1	eG	214	MET	CA-CB	5.26	1.61	1.53
1	eT	128	GLU	CA-C	-5.26	1.46	1.52
1	eU	14	ALA	C-N	5.26	1.40	1.33
1	f1	134	ILE	C-O	5.26	1.30	1.24
1	fD	82	ARG	C-N	5.26	1.41	1.34
1	fE	217	ALA	N-CA	5.26	1.52	1.45
1	fH	67	GLN	CA-CB	5.26	1.61	1.53
1	fH	177	ALA	CA-C	-5.26	1.46	1.53
1	fM	84	HIS	CB-CG	5.26	1.57	1.50
1	fU	84	HIS	CA-C	5.26	1.59	1.52
1	fV	32	PHE	N-CA	-5.26	1.40	1.46
1	fY	154	ARG	CD-NE	5.26	1.53	1.46
1	g4	39	MET	C-N	5.26	1.40	1.33
1	a	222	GLY	CA-C	-5.26	1.47	1.52
1	1	156	GLY	CA-C	5.26	1.59	1.51
1	k	110	THR	CA-CB	5.26	1.61	1.53
1	E	182	LYS	CA-CB	5.26	1.61	1.53
1	N	211	LEU	CA-CB	5.26	1.62	1.53
1	i0	207	PRO	CA-C	5.26	1.59	1.52
1	i5	7	GLN	N-CA	-5.26	1.39	1.46
1	iK	103	ASP	N-CA	5.26	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j2	70	LYS	CA-C	-5.26	1.45	1.52
1	jh	70	LYS	CA-C	-5.26	1.46	1.52
1	jl	167	ARG	NE-CZ	-5.26	1.27	1.33
1	jB	67	GLN	CA-CB	5.26	1.61	1.53
1	jO	202	LEU	CA-C	5.26	1.59	1.52
1	k0	184	TRP	C-N	5.26	1.40	1.33
1	k8	179	GLN	N-CA	5.26	1.52	1.46
1	kc	10	MET	CA-C	5.26	1.59	1.52
1	kz	136	LEU	CA-C	5.26	1.59	1.52
1	27	84	HIS	CG-CD2	-5.26	1.30	1.35
1	lx	100	ARG	CD-NE	5.26	1.53	1.46
1	31	229	ARG	CD-NE	5.26	1.53	1.46
1	3c	177	ALA	CA-C	5.26	1.59	1.52
1	3j	202	LEU	CA-C	-5.26	1.46	1.52
1	3Q	72	THR	CA-CB	5.26	1.61	1.53
1	3V	175	GLU	C-N	5.26	1.41	1.33
1	4d	80	TRP	NE1-CE2	-5.26	1.31	1.37
1	4q	195	ASN	N-CA	5.26	1.53	1.46
1	53	163	ASP	CA-C	5.26	1.59	1.52
1	5E	80	TRP	CD2-CE2	5.26	1.50	1.41
1	60	78	ALA	CA-C	5.26	1.59	1.52
1	63	42	ALA	C-N	5.26	1.41	1.33
1	65	135	ILE	C-O	-5.26	1.18	1.24
1	66	126	VAL	N-CA	5.26	1.52	1.46
1	6t	132	ARG	CA-C	5.26	1.59	1.52
1	70	113	GLU	CA-C	-5.26	1.46	1.52
1	78	158	LYS	CA-C	5.26	1.59	1.52
1	7z	210	THR	CA-C	5.26	1.60	1.53
1	81	101	GLY	N-CA	5.26	1.52	1.45
1	84	129	ILE	CB-CG1	5.26	1.64	1.53
1	8z	228	ALA	C-O	-5.26	1.17	1.23
1	8E	201	ILE	CA-C	5.26	1.59	1.52
1	8N	25	LYS	N-CA	5.26	1.52	1.46
1	Y	40	PHE	CA-C	5.26	1.59	1.52
1	aa	68	MET	N-CA	-5.26	1.39	1.46
1	ac	125	PRO	N-CA	5.26	1.51	1.47
1	11	88	ALA	CA-CB	5.26	1.61	1.53
1	aD	167	ARG	N-CA	5.26	1.52	1.46
1	aK	50	GLN	CA-C	5.26	1.59	1.52
1	aO	22	ALA	C-N	5.26	1.40	1.33
1	aQ	14	ALA	N-CA	5.26	1.52	1.46
1	b0	188	THR	CA-C	-5.26	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	be	95	GLN	CA-CB	5.26	1.63	1.53
1	bi	161	PHE	N-CA	5.26	1.52	1.46
1	bN	85	PRO	C-N	-5.26	1.26	1.33
1	c3	110	THR	CA-C	-5.26	1.46	1.52
1	c5	147	PRO	C-N	5.26	1.40	1.33
1	ct	61	GLY	CA-C	5.26	1.57	1.52
1	cu	38	PRO	CA-C	5.26	1.59	1.52
1	cu	190	LEU	C-N	5.26	1.40	1.33
1	1h	18	ARG	CA-C	-5.26	1.46	1.52
1	dn	139	ASN	CA-C	5.26	1.59	1.52
1	do	29	GLU	CA-C	-5.26	1.46	1.52
1	dF	18	ARG	CD-NE	5.26	1.53	1.46
1	eF	69	LEU	CA-CB	5.26	1.61	1.53
1	eT	156	GLY	C-N	-5.26	1.27	1.34
1	fc	230	VAL	C-N	5.26	1.40	1.33
1	g0	197	ASP	CA-CB	5.26	1.61	1.53
1	l	155	GLN	CA-CB	5.26	1.62	1.53
1	p	151	LEU	CA-CB	5.26	1.62	1.53
1	w	131	LYS	CA-C	5.26	1.59	1.52
1	F	121	ASN	N-CA	-5.26	1.40	1.46
1	N	4	GLN	N-CA	-5.26	1.40	1.46
1	gv	129	ILE	CA-CB	-5.26	1.47	1.54
1	gz	121	ASN	C-N	-5.26	1.24	1.34
1	gB	65	ALA	CA-C	-5.26	1.46	1.52
1	gH	214	MET	C-N	5.26	1.41	1.33
1	h0	33	SER	CA-CB	5.26	1.60	1.53
1	h1	58	THR	CA-C	-5.26	1.45	1.52
1	1H	186	THR	C-N	5.26	1.40	1.33
1	hb	19	THR	C-N	5.26	1.41	1.33
1	hm	8	GLY	C-N	5.26	1.41	1.33
1	hm	13	GLN	CA-C	5.26	1.59	1.52
1	hT	74	ASN	C-N	5.26	1.40	1.33
1	hW	70	LYS	CA-C	5.26	1.59	1.52
1	i6	115	ILE	CA-C	5.26	1.59	1.52
1	ic	23	TRP	CZ2-CH2	5.26	1.47	1.37
1	1P	33	SER	C-O	-5.26	1.18	1.23
1	ip	214	MET	C-O	5.26	1.30	1.24
1	1R	174	ALA	N-CA	-5.26	1.40	1.46
1	iO	41	SER	C-O	5.26	1.30	1.24
1	iO	179	GLN	C-O	-5.26	1.18	1.24
1	iQ	67	GLN	CA-C	5.26	1.59	1.52
1	iS	150	ILE	CA-C	5.26	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1U	92	GLU	CA-C	5.26	1.60	1.53
1	jy	82	ARG	CD-NE	5.26	1.53	1.46
1	jE	228	ALA	C-N	5.26	1.40	1.33
1	jJ	216	THR	C-O	-5.26	1.17	1.24
1	jN	136	LEU	C-N	5.26	1.40	1.33
1	ks	36	VAL	C-O	-5.26	1.18	1.24
1	kz	7	GLN	C-N	5.26	1.40	1.33
1	kz	188	THR	CA-C	-5.26	1.48	1.52
1	lf	40	PHE	CA-CB	5.26	1.61	1.53
1	lg	127	GLY	N-CA	5.26	1.52	1.45
1	lz	121	ASN	CA-CB	5.26	1.61	1.53
1	lC	179	GLN	CA-C	-5.26	1.45	1.52
1	lK	92	GLU	CA-CB	5.26	1.61	1.53
1	lQ	130	TYR	CA-C	-5.26	1.46	1.52
1	2Z	142	VAL	N-CA	-5.26	1.40	1.46
1	3X	160	PRO	CA-C	5.26	1.58	1.52
1	43	199	LYS	CA-C	-5.26	1.46	1.52
1	4b	158	LYS	CA-CB	5.26	1.61	1.53
1	4k	83	LEU	C-N	5.26	1.39	1.33
1	4q	152	ASP	C-N	5.26	1.40	1.33
1	4v	136	LEU	C-N	5.26	1.40	1.33
1	4X	198	CYS	C-N	5.26	1.40	1.33
1	58	130	TYR	N-CA	-5.26	1.40	1.46
1	59	148	THR	C-N	5.26	1.40	1.33
1	5w	55	MET	C-O	-5.26	1.18	1.24
1	5W	84	HIS	CA-C	-5.26	1.46	1.52
1	6j	206	GLY	C-N	-5.26	1.29	1.33
1	6t	36	VAL	N-CA	-5.26	1.40	1.46
1	6w	4	GLN	C-N	5.26	1.40	1.33
1	6w	219	GLN	C-O	5.26	1.30	1.24
1	6O	49	PRO	N-CD	5.26	1.55	1.47
1	6P	163	ASP	CB-CG	-5.26	1.39	1.52
1	6W	175	GLU	CA-C	5.26	1.59	1.52
1	76	133	TRP	NE1-CE2	-5.26	1.31	1.37
1	7I	118	MET	CA-C	5.26	1.59	1.52
1	7J	13	GLN	N-CA	5.26	1.52	1.46
1	82	130	TYR	CA-C	5.26	1.59	1.52
1	8t	120	HIS	CG-CD2	5.26	1.41	1.35
1	8L	114	GLN	C-N	5.26	1.40	1.33
1	8O	9	GLN	CA-CB	5.26	1.61	1.53
1	9u	70	LYS	CA-CB	5.26	1.61	1.53
1	9S	36	VAL	C-N	5.26	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9T	82	ARG	CA-C	5.26	1.59	1.52
1	a6	84	HIS	ND1-CE1	5.26	1.37	1.32
1	ah	222	GLY	CA-C	5.26	1.59	1.51
1	an	130	TYR	C-N	5.26	1.40	1.33
1	ar	219	GLN	CA-C	-5.26	1.46	1.52
1	az	40	PHE	N-CA	-5.26	1.40	1.46
1	az	139	ASN	C-N	5.26	1.40	1.33
1	aM	21	ASN	CA-C	5.26	1.59	1.52
1	aP	134	ILE	CA-C	5.26	1.59	1.52
1	aQ	20	LEU	CA-CB	5.26	1.62	1.53
1	aQ	188	THR	CA-C	-5.26	1.45	1.52
1	aY	128	GLU	CA-CB	5.26	1.61	1.53
1	b4	151	LEU	CA-C	5.26	1.59	1.52
1	bt	227	LYS	CA-CB	5.26	1.61	1.53
1	bR	141	ILE	CB-CG1	5.26	1.64	1.53
1	cb	78	ALA	C-N	5.26	1.41	1.33
1	cp	37	ILE	CB-CG1	5.26	1.64	1.53
1	cD	128	GLU	C-O	-5.26	1.17	1.24
1	1g	230	VAL	CA-CB	-5.26	1.47	1.54
1	cK	44	SER	CA-C	5.26	1.60	1.52
1	cQ	156	GLY	CA-C	-5.26	1.44	1.51
1	dd	167	ARG	C-N	5.26	1.40	1.33
1	df	85	PRO	CA-C	5.26	1.58	1.52
1	do	126	VAL	N-CA	5.26	1.52	1.46
1	dx	7	GLN	N-CA	5.26	1.52	1.46
1	dD	6	LEU	C-N	5.26	1.40	1.33
1	dI	172	LEU	CB-CG	5.26	1.64	1.53
1	e6	32	PHE	C-N	-5.26	1.26	1.33
1	e9	193	ASN	C-N	5.26	1.40	1.33
1	ei	211	LEU	N-CA	-5.26	1.39	1.46
1	1q	118	MET	CA-CB	5.26	1.63	1.53
1	1r	187	GLU	CA-CB	5.26	1.61	1.53
1	eL	69	LEU	CA-CB	5.26	1.61	1.53
1	eW	48	THR	CA-C	-5.26	1.46	1.53
1	eZ	128	GLU	C-N	5.26	1.40	1.33
1	f5	139	ASN	CA-CB	5.26	1.61	1.53
1	fj	17	PRO	CA-CB	5.26	1.61	1.53
1	fK	100	ARG	CA-C	5.26	1.60	1.53
1	fQ	87	HIS	N-CA	-5.26	1.39	1.46
1	fZ	62	HIS	CA-C	-5.26	1.46	1.53
1	g	86	VAL	CA-C	5.26	1.58	1.52
1	h	54	THR	C-N	5.26	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	198	CYS	N-CA	5.26	1.52	1.46
1	l	189	LEU	CA-CB	5.26	1.61	1.53
1	z	219	GLN	CA-C	5.26	1.59	1.52
1	6	141	ILE	CA-CB	5.26	1.60	1.54
1	gi	121	ASN	CA-C	5.25	1.58	1.52
1	gl	132	ARG	CA-C	-5.25	1.46	1.52
1	gB	97	ARG	CA-CB	-5.25	1.44	1.53
1	gG	161	PHE	CA-C	5.25	1.59	1.52
1	gU	126	VAL	C-N	5.25	1.40	1.33
1	1K	42	ALA	CA-C	5.25	1.59	1.52
1	hJ	135	ILE	CA-CB	-5.25	1.48	1.54
1	iv	109	SER	CA-C	-5.25	1.46	1.52
1	jS	114	GLN	C-O	-5.25	1.18	1.24
1	kb	110	THR	CA-CB	5.25	1.62	1.53
1	ki	157	PRO	CA-C	5.25	1.60	1.52
1	kp	192	GLN	N-CA	-5.25	1.39	1.46
1	kS	38	PRO	C-N	5.25	1.41	1.33
1	kW	122	PRO	CA-CB	-5.25	1.44	1.53
1	lb	172	LEU	C-N	5.25	1.40	1.33
1	li	96	MET	SD-CE	5.25	1.92	1.79
1	lw	99	PRO	N-CD	-5.25	1.40	1.47
1	2y	49	PRO	CA-C	-5.25	1.44	1.52
1	3l	229	ARG	CA-CB	5.25	1.62	1.53
1	3q	226	HIS	ND1-CE1	5.25	1.37	1.32
1	3E	204	ALA	N-CA	-5.25	1.40	1.46
1	48	62	HIS	C-N	5.25	1.41	1.33
1	4j	155	GLN	N-CA	-5.25	1.39	1.46
1	4s	114	GLN	CA-CB	5.25	1.61	1.53
1	60	5	ASN	CA-C	5.25	1.59	1.52
1	6g	66	MET	CA-CB	5.25	1.61	1.53
1	6u	120	HIS	ND1-CE1	5.25	1.37	1.32
1	6T	45	GLU	C-N	5.25	1.40	1.33
1	8i	173	ARG	CA-C	5.25	1.59	1.52
1	8N	22	ALA	N-CA	-5.25	1.40	1.46
1	94	168	PHE	CA-CB	5.25	1.61	1.53
1	9F	17	PRO	C-N	5.25	1.40	1.33
1	9P	187	GLU	CA-CB	5.25	1.61	1.53
1	a0	62	HIS	CG-ND1	-5.25	1.32	1.38
1	ag	6	LEU	CA-C	5.25	1.59	1.52
1	b0	217	ALA	N-CA	-5.25	1.39	1.45
1	b3	135	ILE	C-N	5.25	1.40	1.33
1	cI	42	ALA	CA-C	5.25	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cS	144	MET	CA-CB	5.25	1.61	1.53
1	d7	189	LEU	CB-CG	5.25	1.64	1.53
1	dq	189	LEU	N-CA	5.25	1.52	1.46
1	dF	152	ASP	CA-C	5.25	1.59	1.52
1	dO	172	LEU	CA-C	-5.25	1.46	1.52
1	dR	6	LEU	CA-CB	5.25	1.61	1.53
1	e0	226	HIS	C-N	5.25	1.41	1.33
1	eo	20	LEU	CA-C	5.25	1.59	1.52
1	eC	176	GLN	CA-C	5.25	1.60	1.52
1	eP	42	ALA	C-O	5.25	1.30	1.24
1	fl	110	THR	N-CA	5.25	1.52	1.45
1	1x	103	ASP	N-CA	5.25	1.52	1.46
1	fu	12	HIS	CG-ND1	5.25	1.44	1.38
1	0	98	GLU	CA-C	5.25	1.59	1.52
1	2	74	ASN	CA-CB	5.25	1.61	1.53
1	gb	123	PRO	N-CA	5.25	1.53	1.47
1	gi	64	ALA	CA-C	5.25	1.59	1.52
1	1D	138	LEU	C-N	5.25	1.40	1.33
1	gF	52	LEU	C-N	5.25	1.40	1.33
1	gS	86	VAL	CA-C	-5.25	1.46	1.52
1	h3	175	GLU	CA-CB	5.25	1.62	1.53
1	1H	120	HIS	CA-CB	5.25	1.60	1.53
1	h7	84	HIS	CB-CG	5.25	1.57	1.50
1	ht	113	GLU	CA-C	-5.25	1.46	1.52
1	hu	17	PRO	CA-CB	5.25	1.61	1.53
1	hB	127	GLY	N-CA	5.25	1.52	1.45
1	hB	183	ASN	C-N	5.25	1.40	1.33
1	hV	22	ALA	CA-CB	5.25	1.61	1.53
1	i2	218	CYS	N-CA	5.25	1.53	1.46
1	i4	132	ARG	CD-NE	5.25	1.53	1.46
1	iq	184	TRP	N-CA	-5.25	1.40	1.46
1	ix	30	LYS	N-CA	5.25	1.52	1.46
1	iy	61	GLY	C-N	5.25	1.40	1.33
1	iF	178	SER	CA-C	5.25	1.59	1.52
1	iX	7	GLN	C-N	5.25	1.40	1.33
1	iY	13	GLN	CA-C	5.25	1.58	1.52
1	jc	166	ASP	CA-CB	5.25	1.61	1.53
1	jm	144	MET	N-CA	-5.25	1.40	1.46
1	jA	226	HIS	ND1-CE1	5.25	1.37	1.32
1	jT	135	ILE	C-N	5.25	1.40	1.33
1	jW	61	GLY	N-CA	5.25	1.52	1.45
1	kf	87	HIS	CD2-NE2	5.25	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ku	53	ASN	CA-CB	5.25	1.61	1.53
1	kx	80	TRP	CA-CB	5.25	1.61	1.53
1	kH	176	GLN	N-CA	-5.25	1.39	1.46
1	kI	15	ILE	CA-CB	-5.25	1.48	1.54
1	lb	155	GLN	CA-C	5.25	1.59	1.52
1	lx	175	GLU	CA-CB	5.25	1.61	1.53
1	2o	147	PRO	CA-C	5.25	1.59	1.52
1	2t	53	ASN	CA-CB	5.25	1.61	1.53
1	2v	229	ARG	CZ-NH1	-5.25	1.25	1.32
1	2w	18	ARG	CA-C	-5.25	1.46	1.52
1	2I	204	ALA	CA-CB	5.25	1.61	1.53
1	2Z	139	ASN	CA-CB	-5.25	1.45	1.53
1	37	82	ARG	CD-NE	5.25	1.53	1.46
1	3v	168	PHE	CA-C	5.25	1.59	1.52
1	3x	3	VAL	CA-C	5.25	1.59	1.52
1	3T	12	HIS	CD2-NE2	5.25	1.43	1.37
1	3U	109	SER	N-CA	-5.25	1.39	1.45
1	3V	44	SER	CA-CB	5.25	1.60	1.53
1	4l	191	VAL	CA-CB	5.25	1.60	1.54
1	4P	78	ALA	CA-C	5.25	1.59	1.52
1	4X	142	VAL	N-CA	5.25	1.52	1.46
1	5b	224	PRO	CA-CB	-5.25	1.46	1.53
1	5c	133	TRP	CG-CD2	5.25	1.53	1.43
1	5t	27	VAL	N-CA	-5.25	1.40	1.46
1	5t	93	PRO	CA-C	5.25	1.59	1.52
1	5Q	62	HIS	CE1-NE2	5.25	1.37	1.32
1	5R	120	HIS	ND1-CE1	5.25	1.37	1.32
1	69	231	LEU	CA-CB	5.25	1.64	1.53
1	6e	134	ILE	C-N	5.25	1.40	1.33
1	6m	113	GLU	N-CA	-5.25	1.40	1.46
1	6u	99	PRO	N-CA	-5.25	1.41	1.47
1	6K	17	PRO	CA-C	-5.25	1.42	1.52
1	6M	136	LEU	N-CA	5.25	1.52	1.46
1	6T	181	VAL	CA-C	-5.25	1.46	1.52
1	6U	173	ARG	CA-C	-5.25	1.45	1.52
1	74	20	LEU	CA-CB	5.25	1.61	1.53
1	7b	213	GLU	CA-C	5.25	1.59	1.52
1	7i	134	ILE	CA-C	5.25	1.59	1.52
1	7A	178	SER	CA-C	5.25	1.59	1.52
1	7S	118	MET	CA-C	5.25	1.60	1.52
1	87	50	GLN	CA-CB	5.25	1.61	1.53
1	8a	120	HIS	CA-C	5.25	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8b	46	GLY	CA-C	-5.25	1.44	1.51
1	8t	87	HIS	CE1-NE2	5.25	1.37	1.32
1	8y	215	MET	N-CA	-5.25	1.38	1.46
1	8F	138	LEU	C-N	5.25	1.40	1.33
1	8O	161	PHE	C-N	5.25	1.40	1.33
1	94	202	LEU	CA-CB	5.25	1.61	1.53
1	9j	143	ARG	CD-NE	5.25	1.53	1.46
1	9m	203	LYS	C-O	5.25	1.30	1.24
1	9z	33	SER	C-O	-5.25	1.17	1.24
1	9G	3	VAL	C-N	5.25	1.41	1.33
1	9T	87	HIS	CA-C	-5.25	1.46	1.52
1	a8	227	LYS	N-CA	-5.25	1.39	1.46
1	14	132	ARG	C-N	5.25	1.40	1.33
1	bl	71	GLU	CA-C	-5.25	1.46	1.52
1	bu	198	CYS	N-CA	5.25	1.52	1.46
1	bO	98	GLU	CA-C	-5.25	1.47	1.52
1	c0	139	ASN	C-N	5.25	1.40	1.33
1	c2	201	ILE	CA-C	5.25	1.59	1.52
1	cg	118	MET	CA-CB	5.25	1.61	1.53
1	co	228	ALA	C-N	5.25	1.41	1.33
1	cr	227	LYS	CA-CB	5.25	1.62	1.53
1	cL	63	GLN	C-N	5.25	1.41	1.34
1	cW	62	HIS	CA-C	-5.25	1.47	1.53
1	cY	227	LYS	CA-CB	5.25	1.61	1.53
1	dd	125	PRO	CA-CB	5.25	1.59	1.53
1	dn	129	ILE	C-N	5.25	1.41	1.33
1	dH	114	GLN	C-O	5.25	1.30	1.24
1	1m	168	PHE	CA-C	5.25	1.59	1.52
1	dI	3	VAL	CA-CB	-5.25	1.48	1.54
1	dU	9	GLN	CA-CB	5.25	1.59	1.53
1	eh	229	ARG	CA-CB	5.25	1.60	1.53
1	eu	58	THR	CA-C	-5.25	1.46	1.52
1	eC	122	PRO	CA-C	-5.25	1.42	1.52
1	fk	120	HIS	CA-CB	5.25	1.61	1.53
1	fD	138	LEU	N-CA	-5.25	1.39	1.46
1	fQ	17	PRO	CA-CB	5.25	1.61	1.53
1	g0	54	THR	C-N	5.25	1.40	1.33
1	c	187	GLU	CA-CB	5.25	1.61	1.53
1	2	18	ARG	N-CA	-5.25	1.40	1.46
1	2	187	GLU	CA-C	-5.25	1.46	1.52
1	z	44	SER	CA-C	5.25	1.59	1.52
1	I	24	VAL	CA-C	5.25	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gk	188	THR	CA-C	-5.25	1.47	1.53
1	gk	219	GLN	CA-CB	5.25	1.62	1.53
1	gV	178	SER	CA-CB	5.25	1.62	1.53
1	h9	230	VAL	C-N	5.25	1.40	1.33
1	hi	218	CYS	CA-CB	5.25	1.61	1.53
1	hj	104	ILE	C-O	-5.25	1.18	1.24
1	1J	226	HIS	CB-CG	5.25	1.57	1.50
1	hI	197	ASP	C-N	5.25	1.40	1.33
1	hK	65	ALA	C-N	5.25	1.40	1.33
1	1M	85	PRO	N-CA	5.25	1.53	1.47
1	1N	67	GLN	CA-C	5.25	1.59	1.52
1	i7	70	LYS	C-O	-5.25	1.18	1.24
1	il	111	LEU	CA-CB	5.25	1.61	1.53
1	iz	28	GLU	CA-CB	5.25	1.61	1.53
1	iz	211	LEU	CA-C	5.25	1.59	1.52
1	iC	30	LYS	C-N	5.25	1.41	1.33
1	iP	184	TRP	CA-C	-5.25	1.46	1.52
1	iP	202	LEU	CB-CG	5.25	1.64	1.53
1	j2	118	MET	CA-CB	-5.25	1.44	1.53
1	1U	56	LEU	C-N	5.25	1.41	1.34
1	jm	183	ASN	CA-C	5.25	1.59	1.52
1	k9	83	LEU	C-O	-5.25	1.18	1.24
1	k9	102	SER	N-CA	-5.25	1.39	1.46
1	kk	32	PHE	C-N	5.25	1.40	1.33
1	kK	59	VAL	N-CA	-5.25	1.40	1.46
1	kO	226	HIS	ND1-CE1	5.25	1.37	1.32
1	l8	134	ILE	CA-CB	-5.25	1.48	1.54
1	l8	186	THR	CA-CB	5.25	1.61	1.53
1	lo	87	HIS	CB-CG	5.25	1.57	1.50
1	lO	76	GLU	CA-C	5.25	1.59	1.52
1	2y	103	ASP	CA-C	5.25	1.59	1.52
1	2X	192	GLN	N-CA	-5.25	1.39	1.46
1	2X	229	ARG	N-CA	-5.25	1.39	1.45
1	3w	166	ASP	N-CA	5.25	1.52	1.46
1	3F	100	ARG	CA-C	-5.25	1.45	1.53
1	44	117	TRP	CA-CB	5.25	1.61	1.53
1	4k	6	LEU	CA-CB	5.25	1.62	1.53
1	4p	103	ASP	CA-C	5.25	1.59	1.52
1	4M	168	PHE	CA-C	5.25	1.59	1.52
1	4N	9	GLN	CD-NE2	5.25	1.44	1.33
1	4O	103	ASP	C-N	-5.25	1.27	1.33
1	5a	168	PHE	CG-CD1	5.25	1.49	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5j	179	GLN	CA-C	5.25	1.59	1.52
1	5z	36	VAL	N-CA	5.25	1.53	1.46
1	5B	88	ALA	N-CA	5.25	1.52	1.45
1	5K	80	TRP	NE1-CE2	5.25	1.43	1.37
1	6S	68	MET	C-N	5.25	1.40	1.33
1	6Z	120	HIS	C-N	5.25	1.39	1.33
1	7k	35	GLU	C-N	5.25	1.40	1.33
1	7A	172	LEU	CA-CB	5.25	1.61	1.53
1	7V	12	HIS	ND1-CE1	5.25	1.37	1.32
1	8i	12	HIS	CG-ND1	-5.25	1.32	1.38
1	8r	20	LEU	CA-CB	5.25	1.61	1.53
1	8G	226	HIS	CA-C	-5.25	1.45	1.52
1	95	81	ASP	CA-CB	5.25	1.61	1.53
1	9C	71	GLU	N-CA	5.25	1.52	1.46
1	9H	58	THR	N-CA	-5.25	1.39	1.46
1	9Q	15	ILE	N-CA	-5.25	1.39	1.46
1	9W	12	HIS	CB-CG	5.25	1.57	1.50
1	10	40	PHE	N-CA	-5.25	1.40	1.46
1	aj	25	LYS	C-N	5.25	1.40	1.33
1	13	222	GLY	CA-C	-5.25	1.45	1.52
1	aJ	114	GLN	N-CA	-5.25	1.40	1.46
1	15	117	TRP	CA-C	5.25	1.59	1.52
1	aY	111	LEU	CA-C	-5.25	1.46	1.52
1	aY	222	GLY	N-CA	5.25	1.52	1.45
1	b4	79	GLU	CA-CB	-5.25	1.45	1.53
1	bp	11	VAL	CA-CB	-5.25	1.47	1.54
1	bS	131	LYS	N-CA	-5.25	1.40	1.46
1	1c	62	HIS	CE1-NE2	5.25	1.37	1.32
1	1c	172	LEU	C-N	5.25	1.41	1.34
1	c6	77	ALA	N-CA	-5.25	1.39	1.46
1	cr	133	TRP	C-N	5.25	1.40	1.33
1	cD	147	PRO	CA-C	-5.25	1.45	1.52
1	cE	5	ASN	C-N	5.25	1.40	1.33
1	cH	25	LYS	CA-CB	5.25	1.61	1.53
1	dh	107	THR	C-O	-5.25	1.17	1.23
1	dT	152	ASP	C-N	5.25	1.41	1.33
1	e4	120	HIS	CB-CG	5.25	1.57	1.50
1	ei	93	PRO	CA-C	-5.25	1.46	1.52
1	1q	49	PRO	CA-CB	-5.25	1.46	1.53
1	eJ	162	ARG	N-CA	-5.25	1.39	1.46
1	eW	52	LEU	CA-CB	5.25	1.61	1.53
1	fg	12	HIS	ND1-CE1	5.25	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fs	67	GLN	CA-C	-5.25	1.46	1.52
1	fs	225	GLY	CA-C	-5.25	1.44	1.51
1	1y	113	GLU	CA-CB	5.25	1.61	1.53
1	fE	124	ILE	N-CA	-5.25	1.41	1.46
1	fG	78	ALA	N-CA	-5.25	1.40	1.46
1	fZ	120	HIS	CD2-NE2	5.25	1.43	1.37
1	g1	220	GLY	C-N	5.25	1.39	1.33
1	f	54	THR	C-N	5.25	1.41	1.33
1	k	75	GLU	N-CA	5.25	1.52	1.46
1	C	15	ILE	CA-CB	5.25	1.60	1.54
1	D	152	ASP	CA-CB	5.25	1.62	1.53
1	G	117	TRP	CA-C	-5.25	1.46	1.52
1	K	131	LYS	CA-C	5.25	1.59	1.52
1	gc	50	GLN	CA-CB	5.25	1.61	1.53
1	gk	187	GLU	CA-CB	5.25	1.61	1.53
1	h0	61	GLY	C-N	5.25	1.41	1.33
1	h0	196	PRO	N-CA	-5.25	1.40	1.47
1	h1	57	ASN	CA-C	5.25	1.59	1.52
1	hn	12	HIS	N-CA	-5.25	1.39	1.45
1	it	46	GLY	C-O	-5.25	1.16	1.23
1	iG	201	ILE	C-N	5.25	1.40	1.33
1	j0	207	PRO	CA-C	5.25	1.61	1.52
1	j9	49	PRO	N-CD	-5.25	1.40	1.47
1	1U	100	ARG	N-CA	5.25	1.52	1.45
1	1U	176	GLN	CA-CB	5.25	1.60	1.53
1	20	224	PRO	N-CA	5.25	1.53	1.47
1	kw	57	ASN	C-N	5.25	1.41	1.33
1	kQ	167	ARG	CZ-NH1	-5.25	1.25	1.32
1	l3	58	THR	CA-C	-5.25	1.45	1.52
1	2f	204	ALA	C-N	5.25	1.40	1.33
1	2r	65	ALA	CA-C	5.25	1.59	1.52
1	2C	86	VAL	C-N	5.25	1.40	1.33
1	3c	195	ASN	CA-C	5.25	1.58	1.53
1	4t	217	ALA	CA-CB	5.25	1.62	1.53
1	56	138	LEU	CA-C	-5.25	1.46	1.52
1	5b	30	LYS	CA-C	5.25	1.59	1.52
1	5b	33	SER	N-CA	-5.25	1.41	1.46
1	5R	184	TRP	CA-CB	5.25	1.61	1.53
1	63	100	ARG	CA-CB	5.25	1.61	1.53
1	6n	149	SER	CA-CB	5.25	1.62	1.53
1	77	100	ARG	CZ-NH2	-5.25	1.26	1.33
1	79	8	GLY	N-CA	5.25	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7w	135	ILE	CA-C	-5.25	1.46	1.52
1	7S	219	GLN	C-N	5.25	1.40	1.33
1	8o	153	ILE	C-O	-5.25	1.18	1.24
1	8R	167	ARG	CD-NE	5.25	1.53	1.46
1	8Y	66	MET	CA-CB	5.25	1.61	1.53
1	9E	144	MET	C-N	5.25	1.41	1.33
1	9K	79	GLU	CA-C	5.25	1.59	1.52
1	ap	200	THR	N-CA	5.25	1.52	1.46
1	aJ	133	TRP	CA-CB	5.25	1.61	1.53
1	cn	120	HIS	CG-ND1	-5.25	1.32	1.38
1	cq	215	MET	CA-CB	5.25	1.61	1.53
1	1g	18	ARG	CA-C	-5.25	1.45	1.52
1	dj	98	GLU	C-N	5.25	1.40	1.33
1	dk	91	ILE	CA-CB	5.25	1.60	1.54
1	1p	73	ILE	N-CA	-5.25	1.40	1.46
1	ep	62	HIS	ND1-CE1	-5.25	1.27	1.32
1	ev	125	PRO	CA-CB	5.25	1.59	1.53
1	eC	150	ILE	C-O	-5.25	1.17	1.24
1	eG	159	GLU	CA-CB	5.25	1.61	1.53
1	1t	164	TYR	CA-C	5.25	1.59	1.52
1	eT	193	ASN	CA-C	-5.25	1.45	1.52
1	eY	120	HIS	ND1-CE1	5.25	1.37	1.32
1	eZ	129	ILE	C-N	5.25	1.41	1.33
1	fa	201	ILE	CA-C	-5.25	1.46	1.52
1	fn	83	LEU	CA-C	5.25	1.59	1.52
1	fK	12	HIS	CG-ND1	5.25	1.44	1.38
1	fY	168	PHE	C-N	5.25	1.40	1.33
1	g1	137	GLY	CA-C	-5.25	1.46	1.52
1	g3	20	LEU	CA-C	5.25	1.59	1.52
1	g4	34	PRO	N-CD	5.25	1.55	1.47
1	g7	229	ARG	CD-NE	5.25	1.53	1.46
1	0	119	THR	CA-C	5.25	1.60	1.52
1	K	73	ILE	C-N	5.25	1.40	1.33
1	gk	70	LYS	C-N	5.25	1.41	1.33
1	go	84	HIS	CA-C	5.25	1.59	1.52
1	gG	21	ASN	N-CA	-5.25	1.40	1.46
1	gH	70	LYS	CA-C	5.25	1.59	1.52
1	gR	179	GLN	CA-C	5.25	1.59	1.52
1	gT	101	GLY	CA-C	5.25	1.58	1.52
1	1G	133	TRP	CA-CB	5.25	1.61	1.53
1	h7	39	MET	CA-CB	5.25	1.61	1.53
1	hk	59	VAL	C-N	5.25	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ht	5	ASN	CA-C	5.25	1.59	1.52
1	1K	195	ASN	CA-CB	5.25	1.61	1.53
1	hE	66	MET	CA-CB	5.25	1.62	1.53
1	hL	122	PRO	CA-CB	5.25	1.63	1.53
1	hR	59	VAL	CA-CB	-5.25	1.47	1.54
1	id	38	PRO	N-CA	-5.25	1.40	1.47
1	il	3	VAL	CA-C	5.25	1.59	1.52
1	io	203	LYS	CA-C	-5.25	1.46	1.52
1	it	221	VAL	N-CA	-5.25	1.40	1.46
1	iF	42	ALA	C-N	5.25	1.41	1.33
1	iO	124	ILE	N-CA	-5.25	1.40	1.46
1	iS	54	THR	CA-C	5.25	1.59	1.52
1	jj	62	HIS	C-O	-5.25	1.17	1.23
1	jy	41	SER	CA-C	-5.25	1.46	1.52
1	jR	199	LYS	CA-C	5.25	1.59	1.52
1	jS	165	VAL	N-CA	5.25	1.53	1.46
1	jS	195	ASN	C-N	-5.25	1.27	1.34
1	jZ	41	SER	CA-CB	5.25	1.62	1.53
1	k1	100	ARG	CZ-NH2	-5.25	1.26	1.33
1	k4	199	LYS	CA-C	5.25	1.59	1.52
1	20	134	ILE	CA-C	5.25	1.59	1.52
1	ke	120	HIS	CA-C	-5.25	1.46	1.53
1	kf	157	PRO	CA-C	-5.25	1.45	1.52
1	kk	52	LEU	C-O	-5.25	1.18	1.24
1	kG	84	HIS	CA-CB	5.25	1.61	1.53
1	kL	186	THR	N-CA	-5.25	1.40	1.46
1	kY	96	MET	CA-CB	5.25	1.61	1.53
1	kZ	1	PRO	N-CD	5.25	1.55	1.47
1	lo	13	GLN	CA-CB	5.25	1.63	1.53
1	lp	65	ALA	C-N	5.25	1.41	1.33
1	lq	176	GLN	CA-C	5.25	1.59	1.52
1	lv	220	GLY	N-CA	5.25	1.53	1.45
1	lL	199	LYS	C-O	-5.25	1.17	1.24
1	2I	142	VAL	N-CA	5.25	1.52	1.46
1	2L	133	TRP	C-N	5.25	1.40	1.33
1	2Q	14	ALA	C-N	5.25	1.40	1.33
1	30	212	GLU	CA-CB	5.25	1.61	1.53
1	35	81	ASP	CA-C	5.25	1.59	1.52
1	3v	86	VAL	CA-CB	5.25	1.60	1.54
1	3G	41	SER	CA-CB	5.25	1.61	1.53
1	3N	62	HIS	CG-ND1	5.25	1.44	1.38
1	3N	190	LEU	CB-CG	5.25	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3N	229	ARG	CZ-NH2	-5.25	1.26	1.33
1	3Y	122	PRO	CA-CB	-5.25	1.44	1.53
1	48	33	SER	N-CA	5.25	1.52	1.45
1	4y	114	GLN	N-CA	-5.25	1.40	1.46
1	4F	114	GLN	N-CA	5.25	1.52	1.46
1	5b	173	ARG	CA-CB	5.25	1.61	1.53
1	5L	212	GLU	CA-C	5.25	1.59	1.52
1	67	208	ALA	CA-CB	5.25	1.61	1.53
1	6h	90	PRO	CA-C	-5.25	1.46	1.52
1	6i	68	MET	C-N	5.25	1.40	1.33
1	6j	59	VAL	CA-C	5.25	1.59	1.52
1	6v	129	ILE	CA-CB	5.25	1.61	1.54
1	6S	195	ASN	CA-CB	5.25	1.60	1.53
1	7o	87	HIS	CB-CG	5.25	1.57	1.50
1	7t	12	HIS	CE1-NE2	-5.25	1.27	1.32
1	7P	208	ALA	C-N	5.25	1.41	1.33
1	7V	171	THR	C-O	-5.25	1.18	1.24
1	86	1	PRO	C-N	5.25	1.40	1.33
1	8m	213	GLU	CA-CB	5.25	1.61	1.53
1	91	154	ARG	CD-NE	5.25	1.53	1.46
1	98	141	ILE	C-O	5.25	1.30	1.24
1	9D	12	HIS	N-CA	5.25	1.52	1.46
1	9O	65	ALA	C-O	-5.25	1.17	1.24
1	9V	204	ALA	N-CA	5.25	1.52	1.46
1	aa	40	PHE	C-N	5.25	1.41	1.34
1	ac	12	HIS	ND1-CE1	5.25	1.37	1.32
1	ao	103	ASP	C-N	5.25	1.40	1.33
1	aD	14	ALA	N-CA	-5.25	1.39	1.46
1	15	36	VAL	N-CA	5.25	1.53	1.46
1	b0	176	GLN	C-N	5.25	1.41	1.33
1	b1	211	LEU	CB-CG	5.25	1.64	1.53
1	b4	152	ASP	C-N	5.25	1.39	1.33
1	ba	212	GLU	N-CA	-5.25	1.40	1.46
1	bf	22	ALA	CA-C	5.25	1.59	1.52
1	bv	128	GLU	CA-CB	5.25	1.61	1.53
1	c3	168	PHE	CA-C	5.25	1.59	1.52
1	c7	43	LEU	CA-CB	5.25	1.62	1.53
1	c9	132	ARG	CD-NE	5.25	1.53	1.46
1	cq	208	ALA	N-CA	-5.25	1.39	1.46
1	cF	47	ALA	CA-C	-5.25	1.46	1.53
1	cF	87	HIS	CG-CD2	5.25	1.41	1.35
1	cJ	146	SER	CA-CB	5.25	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cL	147	PRO	CA-CB	-5.25	1.46	1.53
1	d0	182	LYS	CA-CB	5.25	1.61	1.53
1	dc	33	SER	CA-C	5.25	1.58	1.52
1	di	135	ILE	C-N	5.25	1.40	1.33
1	dj	87	HIS	CE1-NE2	5.25	1.37	1.32
1	dq	133	TRP	NE1-CE2	-5.25	1.31	1.37
1	dx	62	HIS	C-O	-5.25	1.16	1.23
1	dE	182	LYS	C-N	5.25	1.40	1.33
1	1m	84	HIS	CB-CG	-5.25	1.42	1.50
1	dT	197	ASP	CA-C	5.25	1.59	1.52
1	ec	160	PRO	CA-CB	5.25	1.60	1.53
1	ed	53	ASN	CA-CB	5.25	1.61	1.53
1	ed	158	LYS	CA-C	-5.25	1.45	1.52
1	ey	1	PRO	N-CD	5.25	1.55	1.47
1	eI	28	GLU	CA-CB	5.25	1.61	1.53
1	eI	116	GLY	C-N	5.25	1.40	1.33
1	eO	209	ALA	CA-C	-5.25	1.45	1.52
1	eW	143	ARG	C-N	5.25	1.41	1.34
1	f4	18	ARG	CA-CB	5.25	1.62	1.53
1	fm	110	THR	CA-CB	5.25	1.61	1.53
1	fo	93	PRO	N-CD	5.25	1.55	1.47
1	fQ	30	LYS	C-N	5.25	1.39	1.33
1	fS	180	GLU	CA-C	5.25	1.59	1.52
1	b	106	GLY	N-CA	5.25	1.53	1.45
1	p	207	PRO	CA-C	-5.25	1.45	1.52
1	t	188	THR	C-N	5.25	1.40	1.33
1	gj	183	ASN	CA-CB	5.25	1.61	1.53
1	gN	15	ILE	CA-CB	-5.25	1.48	1.54
1	gN	77	ALA	CA-C	5.25	1.59	1.52
1	h9	23	TRP	C-N	5.25	1.40	1.33
1	hn	227	LYS	CA-C	-5.25	1.46	1.52
1	hJ	66	MET	N-CA	-5.25	1.40	1.46
1	hQ	210	THR	CA-CB	5.25	1.61	1.53
1	hS	127	GLY	N-CA	-5.25	1.39	1.45
1	i3	87	HIS	ND1-CE1	5.25	1.37	1.32
1	ia	89	GLY	N-CA	5.25	1.51	1.44
1	id	72	THR	CA-CB	-5.25	1.45	1.53
1	iB	52	LEU	N-CA	-5.25	1.40	1.46
1	iH	12	HIS	CB-CG	-5.25	1.42	1.50
1	iI	168	PHE	N-CA	5.25	1.52	1.46
1	iI	198	CYS	C-O	-5.25	1.17	1.24
1	iL	177	ALA	CA-C	5.25	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iQ	40	PHE	CA-CB	5.25	1.61	1.53
1	iQ	60	GLY	CA-C	-5.25	1.46	1.52
1	iR	43	LEU	CA-CB	5.25	1.62	1.53
1	iT	7	GLN	N-CA	-5.25	1.39	1.46
1	ju	196	PRO	C-N	5.25	1.41	1.33
1	jX	91	ILE	CA-C	5.25	1.59	1.52
1	kh	112	GLN	CA-C	-5.25	1.46	1.52
1	ko	4	GLN	CA-CB	5.25	1.61	1.53
1	ks	48	THR	CA-C	-5.25	1.45	1.52
1	l5	52	LEU	CA-C	5.25	1.59	1.52
1	lf	222	GLY	CA-C	-5.25	1.43	1.51
1	lk	92	GLU	CA-C	5.25	1.58	1.53
1	ln	170	LYS	CA-C	5.25	1.59	1.52
1	lv	120	HIS	ND1-CE1	5.25	1.37	1.32
1	ly	84	HIS	CB-CG	5.25	1.57	1.50
1	lz	54	THR	CA-CB	5.25	1.61	1.53
1	lG	49	PRO	N-CD	-5.25	1.40	1.47
1	lQ	179	GLN	CA-CB	5.25	1.61	1.53
1	2o	100	ARG	N-CA	5.25	1.52	1.45
1	2B	37	ILE	CA-C	-5.25	1.47	1.52
1	2Y	20	LEU	CA-CB	5.25	1.61	1.53
1	3a	74	ASN	CA-CB	5.25	1.61	1.53
1	3q	83	LEU	CA-CB	5.25	1.62	1.53
1	3w	229	ARG	N-CA	5.25	1.52	1.46
1	3C	134	ILE	N-CA	-5.25	1.40	1.46
1	4s	135	ILE	C-N	5.25	1.40	1.33
1	4Q	112	GLN	C-N	5.25	1.40	1.33
1	4X	2	ILE	C-N	5.25	1.42	1.33
1	5a	34	PRO	N-CA	-5.25	1.40	1.47
1	5e	45	GLU	CA-C	5.25	1.59	1.52
1	5l	220	GLY	C-O	5.25	1.30	1.24
1	5B	97	ARG	CD-NE	5.25	1.53	1.46
1	5N	100	ARG	CA-CB	5.25	1.60	1.53
1	68	152	ASP	CA-C	5.25	1.59	1.52
1	6l	136	LEU	CA-C	5.25	1.59	1.52
1	6r	228	ALA	CA-C	5.25	1.59	1.52
1	6t	63	GLN	N-CA	-5.25	1.39	1.46
1	6I	100	ARG	CA-CB	5.25	1.60	1.53
1	71	19	THR	N-CA	5.25	1.52	1.46
1	72	140	LYS	CA-CB	5.25	1.61	1.53
1	72	167	ARG	CD-NE	5.25	1.53	1.46
1	7B	143	ARG	N-CA	5.25	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7K	4	GLN	CA-C	5.25	1.59	1.52
1	7Q	33	SER	CA-CB	5.25	1.60	1.53
1	7Z	110	THR	CA-C	5.25	1.59	1.52
1	7Z	133	TRP	CZ2-CH2	5.25	1.47	1.37
1	80	142	VAL	N-CA	5.25	1.52	1.46
1	81	163	ASP	CA-CB	5.25	1.62	1.53
1	8b	199	LYS	C-N	5.25	1.40	1.33
1	8l	51	ASP	CA-C	5.25	1.59	1.52
1	8v	130	TYR	CA-C	5.25	1.59	1.52
1	8M	127	GLY	CA-C	-5.25	1.46	1.52
1	8W	37	ILE	CA-C	-5.25	1.47	1.52
1	98	184	TRP	C-N	5.25	1.40	1.33
1	9b	169	TYR	C-N	5.25	1.40	1.33
1	9i	125	PRO	CA-CB	5.25	1.61	1.53
1	9m	202	LEU	CA-C	5.25	1.59	1.52
1	9q	102	SER	CA-C	-5.25	1.46	1.52
1	9E	145	TYR	CA-CB	5.25	1.61	1.53
1	a8	45	GLU	CA-CB	5.25	1.60	1.53
1	aW	84	HIS	CD2-NE2	5.25	1.43	1.37
1	aW	125	PRO	CA-CB	5.25	1.59	1.53
1	b2	65	ALA	C-O	5.25	1.30	1.24
1	17	105	ALA	C-N	5.25	1.40	1.33
1	bR	24	VAL	C-N	5.25	1.40	1.33
1	c5	199	LYS	CA-CB	5.25	1.62	1.53
1	c6	43	LEU	CA-C	5.25	1.59	1.52
1	cg	231	LEU	C-OXT	5.25	1.34	1.23
1	cj	79	GLU	N-CA	5.25	1.52	1.46
1	cl	99	PRO	N-CA	-5.25	1.40	1.47
1	cl	132	ARG	CA-C	-5.25	1.46	1.52
1	cn	146	SER	CA-C	5.25	1.59	1.52
1	cw	71	GLU	CA-C	5.25	1.59	1.52
1	cT	112	GLN	CA-CB	5.25	1.61	1.53
1	d1	34	PRO	CA-C	5.25	1.57	1.52
1	d5	169	TYR	CA-CB	5.25	1.62	1.53
1	dc	58	THR	C-N	5.25	1.40	1.33
1	1k	226	HIS	C-N	5.25	1.41	1.33
1	dr	114	GLN	CA-CB	5.25	1.61	1.53
1	dw	153	ILE	CA-C	-5.25	1.46	1.52
1	dx	175	GLU	C-N	5.25	1.40	1.33
1	1l	95	GLN	CA-C	5.25	1.59	1.52
1	dG	100	ARG	CZ-NH2	-5.25	1.26	1.33
1	e8	185	MET	CA-CB	5.25	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ep	179	GLN	C-O	-5.25	1.17	1.24
1	eq	100	ARG	CA-CB	5.25	1.61	1.53
1	eW	123	PRO	C-N	5.25	1.39	1.33
1	f9	104	ILE	N-CA	-5.25	1.40	1.46
1	fh	200	THR	C-O	-5.25	1.18	1.24
1	fj	211	LEU	CA-C	5.25	1.59	1.52
1	ft	44	SER	CA-C	-5.25	1.46	1.53
1	fF	87	HIS	ND1-CE1	5.25	1.37	1.32
1	fN	48	THR	CA-CB	-5.25	1.45	1.53
1	fN	140	LYS	CA-CB	5.25	1.61	1.53
1	1z	120	HIS	CD2-NE2	5.25	1.43	1.37
1	e	91	ILE	CA-CB	-5.25	1.47	1.54
1	B	179	GLN	C-N	5.25	1.40	1.33
1	N	135	ILE	CA-C	-5.25	1.46	1.52
1	4	12	HIS	CB-CG	5.25	1.57	1.50
1	P	181	VAL	N-CA	-5.25	1.40	1.46
1	gp	27	VAL	CA-CB	-5.25	1.48	1.54
1	gG	38	PRO	CA-C	-5.25	1.44	1.52
1	gM	184	TRP	NE1-CE2	5.25	1.43	1.37
1	h6	84	HIS	ND1-CE1	5.25	1.37	1.32
1	hO	89	GLY	CA-C	-5.25	1.44	1.51
1	i6	2	ILE	CA-C	5.25	1.59	1.52
1	ib	222	GLY	C-N	5.25	1.41	1.33
1	ic	41	SER	C-N	5.25	1.40	1.33
1	ii	113	GLU	C-O	-5.25	1.18	1.24
1	il	18	ARG	CA-C	-5.25	1.46	1.52
1	iH	16	SER	CA-C	-5.25	1.47	1.53
1	ja	166	ASP	CA-C	-5.25	1.46	1.52
1	jl	162	ARG	CA-C	5.25	1.59	1.52
1	1X	142	VAL	N-CA	5.25	1.52	1.46
1	k7	8	GLY	CA-C	-5.25	1.44	1.51
1	kx	108	THR	N-CA	-5.25	1.39	1.46
1	kJ	12	HIS	N-CA	5.25	1.52	1.46
1	kX	25	LYS	CA-C	-5.25	1.46	1.52
1	27	58	THR	N-CA	-5.25	1.40	1.46
1	2t	33	SER	C-N	-5.25	1.27	1.33
1	2z	88	ALA	CA-CB	5.25	1.61	1.53
1	2B	63	GLN	CA-C	-5.25	1.45	1.52
1	2G	134	ILE	CB-CG1	5.25	1.64	1.53
1	2V	225	GLY	N-CA	5.25	1.52	1.45
1	2X	33	SER	CA-C	5.25	1.57	1.52
1	3s	230	VAL	CA-C	5.25	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3w	123	PRO	C-N	5.25	1.37	1.33
1	3P	38	PRO	N-CD	-5.25	1.40	1.47
1	3X	212	GLU	CA-C	-5.25	1.46	1.52
1	43	85	PRO	CA-C	-5.25	1.46	1.52
1	4m	90	PRO	C-N	5.25	1.40	1.33
1	4w	201	ILE	CA-C	5.25	1.59	1.52
1	4z	163	ASP	CA-C	5.25	1.59	1.52
1	4B	136	LEU	CA-C	5.25	1.59	1.52
1	4N	90	PRO	CA-C	5.25	1.58	1.52
1	4Q	165	VAL	C-N	5.25	1.40	1.33
1	4R	105	ALA	C-N	5.25	1.40	1.33
1	5b	34	PRO	CA-C	5.25	1.60	1.52
1	5m	95	GLN	CA-CB	5.25	1.62	1.53
1	6e	35	GLU	CA-C	-5.25	1.46	1.52
1	6e	168	PHE	CA-CB	5.25	1.61	1.53
1	6j	37	ILE	C-O	-5.25	1.20	1.24
1	6O	54	THR	C-O	-5.25	1.18	1.24
1	6X	132	ARG	CA-C	-5.25	1.45	1.52
1	6Y	168	PHE	CA-CB	5.25	1.61	1.53
1	7a	86	VAL	CA-CB	-5.25	1.47	1.54
1	7f	200	THR	CA-C	5.25	1.59	1.52
1	7z	130	TYR	CA-C	5.25	1.59	1.52
1	7V	80	TRP	CA-CB	5.25	1.61	1.53
1	8O	211	LEU	CA-C	5.25	1.59	1.52
1	99	173	ARG	CZ-NH2	-5.25	1.26	1.33
1	9f	120	HIS	CB-CG	-5.25	1.42	1.50
1	9G	185	MET	C-O	-5.25	1.18	1.24
1	9T	169	TYR	CA-CB	5.25	1.61	1.53
1	a6	12	HIS	ND1-CE1	5.25	1.37	1.32
1	ay	225	GLY	C-O	-5.25	1.18	1.24
1	aO	17	PRO	N-CA	-5.25	1.40	1.47
1	cw	113	GLU	CA-C	5.25	1.59	1.52
1	1k	141	ILE	CA-C	-5.25	1.45	1.52
1	dM	92	GLU	CA-C	-5.25	1.47	1.52
1	dV	188	THR	N-CA	-5.25	1.39	1.46
1	eO	110	THR	C-N	5.25	1.40	1.33
1	eP	171	THR	CA-CB	5.25	1.61	1.53
1	fE	4	GLN	C-O	-5.25	1.17	1.24
1	fS	120	HIS	CA-CB	5.25	1.60	1.53
1	l	17	PRO	CA-C	5.25	1.60	1.52
1	x	119	THR	N-CA	-5.25	1.39	1.46
1	gi	37	ILE	C-O	-5.24	1.20	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gN	33	SER	CA-CB	5.24	1.60	1.54
1	gN	100	ARG	N-CA	5.24	1.52	1.45
1	h9	121	ASN	CA-C	5.24	1.57	1.52
1	ha	183	ASN	CA-C	-5.24	1.46	1.52
1	hg	87	HIS	CG-ND1	-5.24	1.32	1.38
1	hg	136	LEU	CA-CB	5.24	1.61	1.53
1	hs	124	ILE	CA-C	5.24	1.57	1.53
1	hw	226	HIS	CE1-NE2	5.24	1.37	1.32
1	hJ	33	SER	CA-CB	5.24	1.61	1.53
1	hO	173	ARG	NE-CZ	5.24	1.38	1.33
1	hQ	80	TRP	NE1-CE2	-5.24	1.31	1.37
1	id	67	GLN	N-CA	-5.24	1.40	1.46
1	in	162	ARG	CD-NE	5.24	1.53	1.46
1	iC	92	GLU	N-CA	-5.24	1.38	1.46
1	iD	186	THR	CB-OG1	-5.24	1.35	1.43
1	iE	228	ALA	C-N	5.24	1.40	1.33
1	iE	229	ARG	CZ-NH1	-5.24	1.25	1.32
1	iP	172	LEU	CA-C	-5.24	1.46	1.52
1	iW	184	TRP	C-N	5.24	1.40	1.33
1	iY	70	LYS	CA-CB	5.24	1.61	1.53
1	j0	142	VAL	CA-C	5.24	1.59	1.52
1	j8	4	GLN	CA-C	5.24	1.58	1.52
1	jb	169	TYR	CA-CB	5.24	1.61	1.53
1	jm	186	THR	CA-C	-5.24	1.46	1.52
1	jv	70	LYS	CA-C	-5.24	1.46	1.52
1	jU	93	PRO	N-CD	5.24	1.55	1.47
1	k3	175	GLU	C-N	5.24	1.41	1.33
1	k4	207	PRO	CA-C	5.24	1.59	1.52
1	k5	26	VAL	CA-CB	-5.24	1.48	1.54
1	20	81	ASP	CA-C	5.24	1.59	1.52
1	kc	134	ILE	CA-C	5.24	1.59	1.52
1	kd	55	MET	CA-CB	5.24	1.61	1.53
1	kf	86	VAL	C-N	5.24	1.41	1.33
1	kq	75	GLU	C-N	5.24	1.40	1.33
1	kG	186	THR	N-CA	5.24	1.52	1.46
1	kU	186	THR	C-N	5.24	1.41	1.33
1	kY	33	SER	CA-CB	5.24	1.61	1.53
1	26	33	SER	CA-C	5.24	1.59	1.53
1	lv	28	GLU	CA-CB	5.24	1.61	1.53
1	lB	127	GLY	CA-C	-5.24	1.46	1.52
1	lK	207	PRO	CA-CB	5.24	1.61	1.53
1	2C	38	PRO	N-CD	-5.24	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2J	187	GLU	N-CA	-5.24	1.40	1.46
1	2L	186	THR	C-N	5.24	1.41	1.33
1	2T	213	GLU	CA-CB	5.24	1.61	1.53
1	36	181	VAL	CA-CB	-5.24	1.48	1.54
1	3e	182	LYS	C-O	-5.24	1.18	1.24
1	3s	61	GLY	N-CA	5.24	1.49	1.44
1	3A	212	GLU	C-N	5.24	1.40	1.33
1	3L	60	GLY	CA-C	-5.24	1.44	1.51
1	44	82	ARG	N-CA	-5.24	1.40	1.46
1	48	45	GLU	CA-CB	5.24	1.61	1.53
1	48	68	MET	C-N	5.24	1.40	1.33
1	4e	181	VAL	C-O	-5.24	1.18	1.24
1	4h	168	PHE	CA-CB	5.24	1.61	1.53
1	4n	86	VAL	CA-CB	5.24	1.60	1.54
1	4X	121	ASN	CA-CB	5.24	1.62	1.53
1	4Z	73	ILE	C-N	5.24	1.40	1.33
1	54	173	ARG	C-N	5.24	1.40	1.33
1	5t	42	ALA	CA-CB	5.24	1.61	1.53
1	5y	12	HIS	ND1-CE1	5.24	1.37	1.32
1	5T	223	GLY	CA-C	-5.24	1.44	1.51
1	65	201	ILE	C-N	5.24	1.40	1.33
1	6s	123	PRO	CA-CB	-5.24	1.46	1.53
1	6R	18	ARG	N-CA	-5.24	1.40	1.46
1	7g	120	HIS	CG-ND1	-5.24	1.32	1.38
1	7w	57	ASN	CA-CB	5.24	1.62	1.53
1	8n	209	ALA	CA-C	-5.24	1.46	1.52
1	8y	109	SER	CA-CB	5.24	1.62	1.54
1	8z	143	ARG	CA-CB	5.24	1.61	1.53
1	8C	186	THR	N-CA	5.24	1.53	1.46
1	8X	69	LEU	C-N	5.24	1.40	1.33
1	91	117	TRP	N-CA	-5.24	1.40	1.46
1	9R	27	VAL	C-N	5.24	1.40	1.33
1	a3	122	PRO	C-N	5.24	1.40	1.33
1	a5	107	THR	CA-C	-5.24	1.46	1.52
1	a7	229	ARG	CD-NE	5.24	1.53	1.46
1	ar	82	ARG	C-O	-5.24	1.18	1.24
1	at	139	ASN	CA-CB	5.24	1.61	1.53
1	aw	226	HIS	CA-C	-5.24	1.45	1.52
1	aF	150	ILE	CA-C	5.24	1.59	1.52
1	aO	81	ASP	N-CA	-5.24	1.39	1.46
1	b9	142	VAL	CA-CB	-5.24	1.48	1.54
1	bu	166	ASP	C-O	-5.24	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bM	192	GLN	C-O	-5.24	1.17	1.24
1	bN	4	GLN	CA-C	5.24	1.59	1.52
1	bO	180	GLU	CA-CB	5.24	1.61	1.53
1	c2	14	ALA	CA-C	5.24	1.60	1.53
1	c2	78	ALA	N-CA	-5.24	1.40	1.46
1	cg	114	GLN	C-N	5.24	1.40	1.33
1	ci	135	ILE	CA-CB	5.24	1.61	1.54
1	1e	71	GLU	CA-CB	5.24	1.61	1.53
1	cO	220	GLY	CA-C	5.24	1.59	1.51
1	cR	79	GLU	C-N	5.24	1.40	1.33
1	d8	12	HIS	CA-C	5.24	1.60	1.53
1	d9	99	PRO	C-N	5.24	1.40	1.33
1	db	84	HIS	ND1-CE1	5.24	1.37	1.32
1	dX	104	ILE	N-CA	5.24	1.52	1.46
1	e0	178	SER	N-CA	-5.24	1.39	1.45
1	er	128	GLU	N-CA	-5.24	1.40	1.46
1	eu	154	ARG	CD-NE	5.24	1.53	1.46
1	ey	122	PRO	N-CD	-5.24	1.40	1.47
1	1s	203	LYS	CA-C	5.24	1.59	1.52
1	eS	53	ASN	CA-C	5.24	1.59	1.52
1	f2	177	ALA	N-CA	5.24	1.52	1.46
1	fl	49	PRO	CA-C	5.24	1.59	1.52
1	fv	168	PHE	N-CA	5.24	1.52	1.46
1	fw	84	HIS	ND1-CE1	5.24	1.37	1.32
1	fA	174	ALA	CA-C	5.24	1.59	1.52
1	g4	49	PRO	C-N	5.24	1.41	1.34
1	r	36	VAL	C-N	5.24	1.39	1.33
1	2	50	GLN	CA-C	5.24	1.59	1.52
1	J	114	GLN	C-N	5.24	1.40	1.33
1	6	6	LEU	N-CA	-5.24	1.39	1.46
1	hm	87	HIS	CA-CB	5.24	1.61	1.53
1	hR	51	ASP	CA-C	-5.24	1.46	1.52
1	iJ	4	GLN	CA-C	5.24	1.59	1.52
1	jL	184	TRP	C-N	5.24	1.41	1.33
1	jM	173	ARG	CA-CB	5.24	1.61	1.53
1	jN	202	LEU	CA-C	5.24	1.59	1.52
1	jS	180	GLU	CA-C	-5.24	1.46	1.52
1	jZ	75	GLU	C-N	5.24	1.41	1.33
1	k9	53	ASN	N-CA	5.24	1.52	1.46
1	l0	41	SER	C-N	5.24	1.40	1.33
1	l7	128	GLU	CA-C	5.24	1.59	1.52
1	2a	176	GLN	CA-CB	5.24	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2r	201	ILE	C-N	-5.24	1.27	1.33
1	2W	124	ILE	CA-CB	5.24	1.60	1.54
1	37	19	THR	N-CA	5.24	1.52	1.46
1	3c	226	HIS	ND1-CE1	5.24	1.37	1.32
1	3d	53	ASN	N-CA	-5.24	1.40	1.46
1	3p	52	LEU	CA-CB	5.24	1.61	1.53
1	3A	67	GLN	N-CA	-5.24	1.40	1.46
1	3S	60	GLY	CA-C	5.24	1.59	1.51
1	4o	53	ASN	CA-C	5.24	1.59	1.52
1	4z	72	THR	C-N	5.24	1.40	1.34
1	4Z	122	PRO	C-N	5.24	1.39	1.33
1	5b	202	LEU	C-O	-5.24	1.18	1.24
1	5A	12	HIS	CB-CG	5.24	1.57	1.50
1	5H	47	ALA	N-CA	-5.24	1.39	1.46
1	5O	162	ARG	C-O	-5.24	1.18	1.24
1	5P	111	LEU	C-O	-5.24	1.18	1.24
1	6o	102	SER	CA-CB	5.24	1.61	1.53
1	6K	47	ALA	CA-C	5.24	1.59	1.52
1	6S	221	VAL	N-CA	-5.24	1.40	1.46
1	8y	143	ARG	CA-C	5.24	1.59	1.52
1	8y	229	ARG	CA-C	-5.24	1.45	1.52
1	8G	88	ALA	C-N	5.24	1.43	1.33
1	99	95	GLN	C-N	5.24	1.40	1.33
1	a6	11	VAL	N-CA	-5.24	1.40	1.46
1	am	192	GLN	CG-CD	5.24	1.65	1.52
1	aM	57	ASN	C-N	5.24	1.40	1.33
1	bn	18	ARG	CA-CB	5.24	1.61	1.53
1	cw	112	GLN	C-N	5.24	1.40	1.33
1	dh	127	GLY	CA-C	-5.24	1.46	1.52
1	dh	176	GLN	CA-CB	5.24	1.62	1.53
1	dw	163	ASP	N-CA	5.24	1.52	1.46
1	1q	132	ARG	C-N	5.24	1.40	1.33
1	ew	97	ARG	CD-NE	5.24	1.53	1.46
1	ex	80	TRP	CA-CB	-5.24	1.45	1.53
1	eK	154	ARG	C-O	5.24	1.30	1.23
1	eP	219	GLN	CA-CB	5.24	1.62	1.53
1	eQ	43	LEU	CA-C	5.24	1.59	1.52
1	eX	25	LYS	N-CA	5.24	1.53	1.46
1	fO	114	GLN	CA-C	-5.24	1.46	1.52
1	T	39	MET	CG-SD	5.24	1.93	1.80
1	ga	6	LEU	CA-CB	5.24	1.62	1.54
1	gh	199	LYS	CA-CB	5.24	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gm	142	VAL	CA-C	5.24	1.59	1.52
1	gn	132	ARG	CD-NE	5.24	1.53	1.46
1	gw	219	GLN	CA-C	5.24	1.59	1.52
1	gw	227	LYS	N-CA	-5.24	1.39	1.45
1	gH	12	HIS	CE1-NE2	-5.24	1.27	1.32
1	gL	205	LEU	CA-CB	5.24	1.61	1.53
1	gL	224	PRO	CA-C	-5.24	1.45	1.52
1	gS	67	GLN	C-N	5.24	1.41	1.33
1	gS	100	ARG	CD-NE	5.24	1.53	1.46
1	gZ	21	ASN	CA-CB	5.24	1.61	1.53
1	hf	181	VAL	N-CA	-5.24	1.40	1.46
1	ib	143	ARG	CD-NE	5.24	1.53	1.46
1	im	178	SER	CA-CB	5.24	1.62	1.53
1	is	29	GLU	CA-CB	5.24	1.61	1.53
1	1Q	160	PRO	N-CA	-5.24	1.40	1.47
1	iy	221	VAL	C-N	5.24	1.41	1.33
1	iA	161	PHE	CA-CB	5.24	1.61	1.53
1	iD	197	ASP	CA-C	5.24	1.59	1.52
1	j3	219	GLN	CA-CB	5.24	1.62	1.53
1	jf	154	ARG	CD-NE	5.24	1.53	1.46
1	jg	57	ASN	CA-C	-5.24	1.45	1.52
1	jx	162	ARG	CA-C	5.24	1.59	1.52
1	jF	120	HIS	CG-ND1	5.24	1.44	1.38
1	kh	208	ALA	C-N	5.24	1.40	1.33
1	kY	138	LEU	CB-CG	5.24	1.64	1.53
1	l0	68	MET	N-CA	-5.24	1.40	1.46
1	lB	29	GLU	CA-CB	5.24	1.61	1.53
1	2G	57	ASN	C-N	5.24	1.41	1.33
1	2V	25	LYS	CA-C	5.24	1.59	1.52
1	3K	82	ARG	CD-NE	5.24	1.53	1.46
1	3X	3	VAL	CA-C	-5.24	1.46	1.52
1	3Y	38	PRO	CA-C	-5.24	1.44	1.52
1	42	219	GLN	CA-C	5.24	1.59	1.52
1	4s	33	SER	N-CA	5.24	1.52	1.45
1	4u	83	LEU	CB-CG	5.24	1.64	1.53
1	4Z	180	GLU	CA-C	5.24	1.59	1.52
1	5d	222	GLY	N-CA	5.24	1.52	1.45
1	5e	73	ILE	CB-CG1	5.24	1.64	1.53
1	5l	175	GLU	CA-CB	5.24	1.61	1.53
1	5D	187	GLU	C-O	-5.24	1.17	1.24
1	5I	108	THR	CA-C	-5.24	1.46	1.52
1	5S	45	GLU	CA-C	5.24	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5W	120	HIS	ND1-CE1	5.24	1.37	1.32
1	6c	215	MET	CA-CB	5.24	1.61	1.53
1	6m	47	ALA	C-N	5.24	1.41	1.33
1	6o	218	CYS	CA-C	5.24	1.59	1.52
1	6u	177	ALA	CA-C	-5.24	1.46	1.52
1	6S	44	SER	CA-CB	5.24	1.61	1.53
1	7O	27	VAL	CA-CB	5.24	1.61	1.54
1	7V	69	LEU	CA-C	5.24	1.59	1.52
1	82	198	CYS	C-O	-5.24	1.17	1.24
1	84	106	GLY	CA-C	-5.24	1.44	1.51
1	8n	77	ALA	C-N	5.24	1.40	1.33
1	8n	112	GLN	CA-CB	5.24	1.61	1.53
1	8I	10	MET	C-N	5.24	1.40	1.33
1	8M	218	CYS	C-N	5.24	1.40	1.33
1	92	74	ASN	CA-C	-5.24	1.46	1.52
1	93	209	ALA	N-CA	-5.24	1.38	1.45
1	9f	229	ARG	N-CA	-5.24	1.39	1.46
1	9y	164	TYR	CA-C	5.24	1.59	1.52
1	9J	49	PRO	CA-CB	-5.24	1.46	1.53
1	9U	32	PHE	C-O	-5.24	1.17	1.23
1	Z	158	LYS	CA-C	5.24	1.59	1.52
1	ae	223	GLY	C-N	-5.24	1.29	1.33
1	ao	9	GLN	CA-CB	5.24	1.62	1.53
1	14	141	ILE	CB-CG1	5.24	1.64	1.53
1	aU	67	GLN	CA-CB	5.24	1.61	1.53
1	16	10	MET	C-N	5.24	1.40	1.33
1	bd	98	GLU	C-N	-5.24	1.26	1.33
1	bk	176	GLN	CA-C	5.24	1.59	1.52
1	bl	9	GLN	N-CA	-5.24	1.39	1.46
1	bp	153	ILE	CA-C	-5.24	1.45	1.53
1	by	84	HIS	CA-C	5.24	1.59	1.52
1	bB	139	ASN	N-CA	-5.24	1.40	1.46
1	bC	68	MET	C-N	5.24	1.41	1.33
1	bG	51	ASP	CG-OD2	5.24	1.35	1.25
1	bN	143	ARG	C-N	5.24	1.41	1.34
1	bR	123	PRO	C-N	-5.24	1.27	1.33
1	bU	120	HIS	ND1-CE1	5.24	1.37	1.32
1	bY	16	SER	CA-CB	5.24	1.61	1.53
1	c4	90	PRO	CA-C	5.24	1.59	1.52
1	cc	9	GLN	C-N	5.24	1.40	1.33
1	ce	180	GLU	C-N	5.24	1.40	1.33
1	cg	94	GLY	C-N	5.24	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cl	55	MET	CA-C	-5.24	1.45	1.52
1	cv	120	HIS	C-N	5.24	1.39	1.33
1	cv	127	GLY	CA-C	-5.24	1.45	1.51
1	d5	55	MET	CA-CB	5.24	1.61	1.53
1	dc	166	ASP	C-N	5.24	1.40	1.33
1	dI	45	GLU	CA-C	5.24	1.59	1.52
1	dQ	202	LEU	C-N	5.24	1.41	1.34
1	dR	149	SER	C-O	-5.24	1.18	1.23
1	e4	111	LEU	C-N	5.24	1.40	1.33
1	1p	230	VAL	CA-CB	-5.24	1.48	1.54
1	eh	13	GLN	N-CA	-5.24	1.39	1.46
1	ex	212	GLU	CA-CB	5.24	1.61	1.53
1	ey	137	GLY	N-CA	5.24	1.52	1.45
1	eF	26	VAL	CA-C	-5.24	1.46	1.52
1	eF	185	MET	CA-CB	5.24	1.61	1.53
1	eI	51	ASP	C-N	5.24	1.41	1.33
1	eM	80	TRP	N-CA	-5.24	1.40	1.46
1	eU	12	HIS	CA-CB	5.24	1.60	1.53
1	f2	50	GLN	N-CA	-5.24	1.40	1.46
1	fv	5	ASN	N-CA	-5.24	1.39	1.46
1	fv	175	GLU	CA-C	5.24	1.59	1.52
1	fP	75	GLU	N-CA	-5.24	1.40	1.46
1	fP	211	LEU	CA-C	5.24	1.59	1.52
1	fV	10	MET	C-O	5.24	1.29	1.23
1	1A	80	TRP	CA-CB	5.24	1.61	1.53
1	1B	141	ILE	CA-CB	5.24	1.61	1.54
1	i	7	GLN	CA-C	-5.24	1.46	1.52
1	w	47	ALA	C-N	5.24	1.41	1.33
1	3	120	HIS	CD2-NE2	5.24	1.43	1.37
1	8	147	PRO	N-CA	5.24	1.53	1.47
1	gf	140	LYS	CA-CB	5.24	1.62	1.53
1	gw	108	THR	N-CA	-5.24	1.39	1.46
1	gE	214	MET	C-N	-5.24	1.27	1.33
1	gR	40	PHE	C-N	5.24	1.40	1.33
1	gU	77	ALA	C-O	-5.24	1.18	1.24
1	h2	199	LYS	CA-CB	5.24	1.61	1.53
1	ha	119	THR	CB-OG1	-5.24	1.35	1.43
1	he	44	SER	N-CA	5.24	1.52	1.46
1	hw	99	PRO	CA-C	-5.24	1.45	1.52
1	hK	88	ALA	N-CA	-5.24	1.39	1.46
1	i0	159	GLU	CA-CB	5.24	1.59	1.53
1	i3	62	HIS	CG-ND1	5.24	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1O	195	ASN	CA-CB	5.24	1.61	1.53
1	iq	53	ASN	CA-C	-5.24	1.46	1.52
1	iD	55	MET	CA-C	5.24	1.59	1.52
1	iJ	120	HIS	CA-CB	5.24	1.61	1.53
1	iY	140	LYS	C-N	5.24	1.40	1.33
1	iY	197	ASP	C-O	-5.24	1.17	1.24
1	jc	219	GLN	CA-C	5.24	1.59	1.52
1	jz	82	ARG	CD-NE	5.24	1.53	1.46
1	jN	167	ARG	CA-CB	5.24	1.61	1.53
1	jV	156	GLY	C-N	5.24	1.41	1.33
1	jX	116	GLY	C-O	-5.24	1.17	1.23
1	jZ	95	GLN	C-N	5.24	1.41	1.33
1	20	114	GLN	N-CA	5.24	1.52	1.46
1	ke	79	GLU	N-CA	-5.24	1.40	1.46
1	ke	141	ILE	CA-C	5.24	1.59	1.52
1	kj	10	MET	N-CA	-5.24	1.39	1.45
1	kA	7	GLN	CA-C	5.24	1.59	1.52
1	kA	162	ARG	NE-CZ	-5.24	1.27	1.33
1	l7	229	ARG	CD-NE	5.24	1.53	1.46
1	lc	4	GLN	CA-CB	5.24	1.61	1.53
1	ln	67	GLN	CA-C	-5.24	1.46	1.52
1	lp	142	VAL	N-CA	5.24	1.53	1.46
1	2j	229	ARG	C-N	5.24	1.40	1.33
1	2m	230	VAL	C-O	-5.24	1.18	1.24
1	2v	102	SER	CA-C	5.24	1.59	1.52
1	2B	230	VAL	N-CA	5.24	1.52	1.46
1	2D	146	SER	N-CA	-5.24	1.38	1.45
1	2X	24	VAL	N-CA	-5.24	1.40	1.46
1	33	93	PRO	C-N	5.24	1.41	1.33
1	3o	36	VAL	N-CA	-5.24	1.40	1.46
1	3t	170	LYS	C-N	5.24	1.40	1.33
1	3u	172	LEU	CA-C	5.24	1.59	1.52
1	3I	27	VAL	CA-CB	-5.24	1.47	1.54
1	3N	34	PRO	CA-C	5.24	1.59	1.52
1	46	193	ASN	C-N	5.24	1.40	1.33
1	4c	64	ALA	C-N	5.24	1.41	1.33
1	4c	88	ALA	CA-CB	-5.24	1.45	1.53
1	4k	182	LYS	CA-CB	5.24	1.61	1.53
1	4C	10	MET	CG-SD	5.24	1.93	1.80
1	4H	20	LEU	CA-CB	5.24	1.61	1.53
1	4H	100	ARG	CZ-NH1	5.24	1.40	1.32
1	5V	24	VAL	N-CA	5.24	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5Y	145	TYR	CA-CB	5.24	1.62	1.53
1	6j	123	PRO	C-N	5.24	1.38	1.33
1	6m	192	GLN	CA-C	5.24	1.59	1.52
1	6n	229	ARG	N-CA	5.24	1.52	1.46
1	6v	217	ALA	CA-CB	5.24	1.62	1.53
1	6w	138	LEU	N-CA	5.24	1.52	1.46
1	6A	111	LEU	CA-C	5.24	1.59	1.52
1	6I	75	GLU	N-CA	-5.24	1.40	1.46
1	72	163	ASP	C-N	5.24	1.40	1.33
1	7k	59	VAL	C-N	5.24	1.41	1.33
1	7s	81	ASP	N-CA	-5.24	1.40	1.46
1	7L	200	THR	N-CA	5.24	1.52	1.46
1	7P	17	PRO	N-CA	-5.24	1.40	1.47
1	7U	16	SER	CA-CB	5.24	1.61	1.53
1	8l	84	HIS	CE1-NE2	-5.24	1.27	1.32
1	8l	185	MET	CA-C	5.24	1.59	1.52
1	8q	42	ALA	C-N	5.24	1.41	1.33
1	8V	138	LEU	CA-CB	5.24	1.61	1.53
1	9a	196	PRO	N-CA	-5.24	1.40	1.47
1	9o	197	ASP	N-CA	-5.24	1.39	1.46
1	9u	143	ARG	CA-CB	-5.24	1.45	1.53
1	9v	128	GLU	N-CA	5.24	1.52	1.46
1	9w	47	ALA	CA-C	5.24	1.59	1.52
1	9U	230	VAL	C-N	5.24	1.40	1.33
1	a0	35	GLU	C-N	5.24	1.40	1.34
1	a0	111	LEU	CA-C	-5.24	1.46	1.52
1	10	175	GLU	C-N	5.24	1.40	1.33
1	12	135	ILE	C-O	-5.24	1.18	1.24
1	12	156	GLY	N-CA	5.24	1.51	1.44
1	av	62	HIS	CB-CG	5.24	1.57	1.50
1	ay	103	ASP	N-CA	-5.24	1.40	1.46
1	aP	122	PRO	C-N	-5.24	1.27	1.33
1	aT	62	HIS	C-O	-5.24	1.17	1.24
1	b9	149	SER	CA-C	5.24	1.59	1.52
1	bq	73	ILE	N-CA	5.24	1.52	1.46
1	bA	164	TYR	CA-C	5.24	1.59	1.52
1	bX	118	MET	C-N	5.24	1.41	1.33
1	cH	38	PRO	N-CA	-5.24	1.40	1.47
1	cN	123	PRO	CA-CB	5.24	1.60	1.53
1	cQ	169	TYR	N-CA	5.24	1.52	1.46
1	cU	203	LYS	N-CA	-5.24	1.40	1.46
1	cZ	190	LEU	CA-CB	5.24	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d7	145	TYR	C-O	-5.24	1.16	1.23
1	dh	130	TYR	N-CA	-5.24	1.40	1.46
1	dj	182	LYS	C-N	5.24	1.41	1.34
1	ea	226	HIS	CG-ND1	5.24	1.44	1.38
1	em	80	TRP	C-N	5.24	1.40	1.33
1	eo	99	PRO	C-N	5.24	1.40	1.33
1	eX	126	VAL	C-N	5.24	1.40	1.33
1	f2	30	LYS	C-N	5.24	1.41	1.33
1	f6	34	PRO	N-CA	5.24	1.54	1.47
1	1v	70	LYS	C-O	-5.24	1.17	1.24
1	fw	79	GLU	CA-C	5.24	1.59	1.52
1	1z	142	VAL	C-O	-5.24	1.18	1.24
1	b	196	PRO	C-N	5.24	1.40	1.33
1	e	62	HIS	CG-CD2	5.24	1.41	1.35
1	3	181	VAL	N-CA	-5.24	1.40	1.46
1	F	138	LEU	N-CA	-5.24	1.40	1.46
1	1G	1	PRO	C-N	5.24	1.41	1.33
1	hs	14	ALA	CA-C	5.24	1.59	1.52
1	hP	13	GLN	N-CA	5.24	1.52	1.45
1	i2	4	GLN	CA-C	-5.24	1.46	1.52
1	i2	59	VAL	CA-C	5.24	1.58	1.52
1	i3	209	ALA	CA-C	5.24	1.59	1.52
1	i9	76	GLU	CA-CB	5.24	1.61	1.53
1	io	118	MET	CA-CB	5.24	1.62	1.53
1	iM	196	PRO	C-N	5.24	1.41	1.33
1	1S	196	PRO	C-N	5.24	1.40	1.33
1	jb	131	LYS	N-CA	-5.24	1.40	1.46
1	jD	173	ARG	N-CA	5.24	1.53	1.46
1	20	127	GLY	N-CA	-5.24	1.39	1.45
1	21	68	MET	N-CA	-5.24	1.39	1.46
1	kO	135	ILE	CA-C	5.24	1.59	1.52
1	le	51	ASP	CA-CB	5.24	1.61	1.53
1	lE	105	ALA	N-CA	5.24	1.52	1.46
1	2q	147	PRO	CA-C	5.24	1.59	1.52
1	2r	114	GLN	CA-C	5.24	1.59	1.52
1	2u	204	ALA	N-CA	-5.24	1.40	1.46
1	3s	153	ILE	CA-CB	-5.24	1.48	1.54
1	48	102	SER	CA-C	5.24	1.59	1.52
1	4A	208	ALA	C-O	-5.24	1.17	1.24
1	4F	36	VAL	CA-CB	-5.24	1.48	1.54
1	4H	73	ILE	CA-C	-5.24	1.46	1.52
1	4M	162	ARG	CD-NE	5.24	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4S	59	VAL	N-CA	-5.24	1.40	1.46
1	4X	161	PHE	C-N	5.24	1.38	1.33
1	5E	134	ILE	C-O	-5.24	1.18	1.24
1	5J	97	ARG	CD-NE	5.24	1.53	1.46
1	6F	107	THR	C-N	5.24	1.41	1.33
1	7b	196	PRO	N-CA	-5.24	1.40	1.47
1	8m	160	PRO	C-N	5.24	1.40	1.33
1	8F	72	THR	N-CA	5.24	1.52	1.46
1	8F	75	GLU	C-N	5.24	1.41	1.33
1	8X	124	ILE	CB-CG1	5.24	1.64	1.53
1	9f	168	PHE	CA-CB	5.24	1.61	1.53
1	ad	215	MET	SD-CE	5.24	1.92	1.79
1	12	185	MET	CA-C	5.24	1.59	1.52
1	b0	52	LEU	CA-C	5.24	1.59	1.52
1	b5	123	PRO	C-N	5.24	1.39	1.33
1	b8	217	ALA	N-CA	5.24	1.52	1.46
1	bD	156	GLY	C-N	-5.24	1.29	1.33
1	bY	105	ALA	N-CA	-5.24	1.39	1.46
1	c0	150	ILE	CA-CB	-5.24	1.46	1.54
1	c2	154	ARG	CA-C	-5.24	1.46	1.52
1	dx	228	ALA	CA-C	5.24	1.60	1.53
1	eF	192	GLN	CA-C	-5.24	1.46	1.52
1	f7	115	ILE	CA-C	5.24	1.59	1.52
1	f9	11	VAL	CA-C	-5.24	1.46	1.52
1	fb	106	GLY	N-CA	5.24	1.53	1.45
1	fc	11	VAL	CA-C	-5.24	1.45	1.52
1	ft	185	MET	CA-C	-5.24	1.45	1.52
1	fD	76	GLU	N-CA	-5.24	1.40	1.46
1	g6	198	CYS	C-N	5.24	1.41	1.33
1	a	86	VAL	C-N	5.24	1.41	1.33
1	o	136	LEU	N-CA	-5.24	1.40	1.46
1	D	62	HIS	N-CA	-5.24	1.40	1.46
1	gi	102	SER	N-CA	-5.24	1.39	1.46
1	gm	105	ALA	C-N	5.24	1.40	1.33
1	1D	57	ASN	N-CA	-5.24	1.39	1.46
1	gt	97	ARG	CA-C	5.24	1.59	1.52
1	gt	133	TRP	NE1-CE2	-5.24	1.31	1.37
1	gA	28	GLU	N-CA	-5.24	1.40	1.46
1	gD	39	MET	CA-C	5.24	1.59	1.52
1	gE	161	PHE	C-N	5.24	1.40	1.33
1	1F	62	HIS	N-CA	-5.24	1.38	1.46
1	hl	44	SER	CA-CB	5.24	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hw	67	GLN	CA-C	5.24	1.59	1.52
1	hC	93	PRO	CA-C	5.24	1.59	1.52
1	hZ	39	MET	C-N	5.24	1.40	1.33
1	i7	138	LEU	CA-C	-5.24	1.46	1.52
1	ij	48	THR	CA-C	5.24	1.59	1.53
1	ij	128	GLU	C-O	-5.24	1.18	1.24
1	io	35	GLU	C-N	5.24	1.40	1.33
1	1S	206	GLY	C-N	5.24	1.38	1.33
1	iX	87	HIS	CE1-NE2	-5.24	1.27	1.32
1	iX	94	GLY	CA-C	-5.24	1.44	1.51
1	iY	105	ALA	CA-C	5.24	1.59	1.52
1	ji	74	ASN	CA-CB	5.24	1.61	1.53
1	jq	204	ALA	N-CA	-5.24	1.39	1.46
1	jC	121	ASN	C-N	5.24	1.44	1.34
1	jF	158	LYS	N-CA	-5.24	1.40	1.46
1	1X	134	ILE	C-N	5.24	1.40	1.33
1	jG	97	ARG	CA-C	5.24	1.59	1.52
1	jS	62	HIS	CE1-NE2	5.24	1.37	1.32
1	jY	178	SER	C-N	5.24	1.40	1.33
1	k3	141	ILE	C-O	-5.24	1.18	1.24
1	kt	160	PRO	N-CD	-5.24	1.40	1.47
1	kH	183	ASN	CA-CB	5.24	1.61	1.53
1	kN	202	LEU	CA-C	-5.24	1.45	1.52
1	lm	6	LEU	CB-CG	5.24	1.64	1.53
1	lB	85	PRO	N-CA	-5.24	1.40	1.47
1	29	133	TRP	N-CA	-5.24	1.40	1.46
1	lL	87	HIS	CB-CG	5.24	1.57	1.50
1	2n	70	LYS	N-CA	5.24	1.52	1.46
1	2p	184	TRP	CA-C	5.24	1.59	1.52
1	2V	105	ALA	C-N	5.24	1.41	1.33
1	3j	173	ARG	C-N	5.24	1.41	1.33
1	3l	185	MET	CA-CB	5.24	1.61	1.53
1	3s	128	GLU	CA-C	5.24	1.59	1.52
1	3S	87	HIS	C-O	-5.24	1.16	1.24
1	3S	112	GLN	N-CA	-5.24	1.40	1.46
1	4I	167	ARG	CD-NE	5.24	1.53	1.46
1	4P	160	PRO	C-O	-5.24	1.16	1.23
1	58	47	ALA	CA-CB	5.24	1.61	1.53
1	5D	161	PHE	CA-C	5.24	1.59	1.52
1	5E	62	HIS	CG-ND1	5.24	1.44	1.38
1	60	93	PRO	CA-CB	5.24	1.61	1.53
1	63	4	GLN	N-CA	-5.24	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	63	143	ARG	CA-CB	5.24	1.61	1.53
1	6m	104	ILE	C-N	5.24	1.41	1.33
1	6q	110	THR	CA-CB	5.24	1.61	1.53
1	6E	66	MET	CA-CB	5.24	1.61	1.53
1	6I	40	PHE	CA-CB	5.24	1.61	1.53
1	6K	226	HIS	C-N	5.24	1.40	1.33
1	72	168	PHE	CA-CB	5.24	1.61	1.53
1	76	87	HIS	CA-CB	5.24	1.61	1.53
1	78	28	GLU	CA-C	5.24	1.59	1.52
1	7s	79	GLU	C-N	5.24	1.40	1.33
1	7W	71	GLU	CA-C	-5.24	1.46	1.52
1	8a	37	ILE	CA-CB	5.24	1.60	1.54
1	8z	23	TRP	CA-C	5.24	1.59	1.52
1	8L	149	SER	C-N	5.24	1.40	1.34
1	8M	123	PRO	N-CD	5.24	1.55	1.47
1	9m	184	TRP	N-CA	-5.24	1.40	1.46
1	9D	96	MET	C-O	-5.24	1.17	1.23
1	9X	15	ILE	CA-CB	-5.24	1.46	1.53
1	9Y	85	PRO	C-N	5.24	1.41	1.33
1	Z	201	ILE	CA-CB	5.24	1.60	1.54
1	a2	182	LYS	C-N	5.24	1.40	1.33
1	a5	132	ARG	CA-C	-5.24	1.46	1.52
1	a9	164	TYR	N-CA	-5.24	1.40	1.46
1	aa	88	ALA	C-N	5.24	1.41	1.33
1	af	206	GLY	C-N	5.24	1.39	1.33
1	as	86	VAL	C-O	-5.24	1.18	1.24
1	aL	218	CYS	CA-C	5.24	1.59	1.53
1	16	25	LYS	CA-C	5.24	1.59	1.52
1	16	36	VAL	CA-CB	-5.24	1.47	1.54
1	bk	13	GLN	CA-CB	5.24	1.62	1.53
1	bC	187	GLU	CA-CB	5.24	1.61	1.53
1	bX	64	ALA	C-N	5.24	1.40	1.33
1	c2	138	LEU	C-N	5.24	1.40	1.33
1	ck	126	VAL	CA-CB	-5.24	1.47	1.54
1	ct	138	LEU	CA-C	5.24	1.59	1.52
1	cB	226	HIS	CE1-NE2	5.24	1.37	1.32
1	cL	143	ARG	CD-NE	5.24	1.53	1.46
1	cZ	37	ILE	N-CA	-5.24	1.40	1.46
1	dQ	38	PRO	N-CD	5.24	1.55	1.47
1	dS	64	ALA	C-O	-5.24	1.18	1.24
1	dU	104	ILE	N-CA	5.24	1.52	1.46
1	ec	33	SER	C-N	5.24	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ee	7	GLN	C-N	5.24	1.41	1.33
1	es	217	ALA	C-O	-5.24	1.17	1.23
1	eu	43	LEU	CA-CB	5.24	1.62	1.53
1	ex	168	PHE	N-CA	5.24	1.52	1.46
1	eJ	12	HIS	ND1-CE1	5.24	1.37	1.32
1	eL	218	CYS	CA-CB	5.24	1.62	1.53
1	1u	147	PRO	CA-CB	5.24	1.61	1.53
1	f0	117	TRP	CA-CB	5.24	1.61	1.53
1	f0	132	ARG	CD-NE	5.24	1.53	1.46
1	fy	18	ARG	CD-NE	5.24	1.53	1.46
1	fy	55	MET	CA-C	5.24	1.59	1.52
1	fA	126	VAL	C-N	5.24	1.41	1.33
1	fD	114	GLN	C-N	5.24	1.40	1.34
1	fG	182	LYS	CA-CB	5.24	1.61	1.53
1	g1	221	VAL	N-CA	-5.24	1.40	1.46
1	g2	82	ARG	NE-CZ	5.24	1.38	1.33
1	3	1	PRO	N-CA	5.24	1.54	1.47
1	F	84	HIS	CA-CB	5.24	1.60	1.53
1	Q	18	ARG	CD-NE	5.24	1.53	1.46
1	W	19	THR	N-CA	-5.24	1.40	1.46
1	gB	83	LEU	CB-CG	5.23	1.64	1.53
1	hc	158	LYS	CA-CB	5.23	1.60	1.53
1	hu	72	THR	CA-C	5.23	1.59	1.52
1	1M	39	MET	CA-CB	5.23	1.61	1.53
1	i7	18	ARG	CZ-NH1	-5.23	1.25	1.32
1	1O	42	ALA	C-O	-5.23	1.18	1.24
1	iz	101	GLY	CA-C	-5.23	1.45	1.52
1	iB	207	PRO	C-N	5.23	1.41	1.33
1	iI	108	THR	CB-OG1	-5.23	1.35	1.43
1	jf	3	VAL	C-O	-5.23	1.18	1.24
1	jg	92	GLU	CA-CB	5.23	1.61	1.53
1	jm	91	ILE	C-N	5.23	1.41	1.33
1	jw	37	ILE	N-CA	-5.23	1.40	1.46
1	jN	24	VAL	C-N	5.23	1.41	1.33
1	jP	96	MET	N-CA	-5.23	1.39	1.46
1	1Y	164	TYR	CA-CB	5.23	1.61	1.53
1	jU	121	ASN	CA-C	5.23	1.59	1.52
1	kX	152	ASP	N-CA	-5.23	1.39	1.46
1	l9	166	ASP	N-CA	5.23	1.52	1.46
1	lv	158	LYS	CA-CB	5.23	1.61	1.53
1	lw	132	ARG	N-CA	-5.23	1.40	1.46
1	2i	55	MET	C-N	5.23	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2T	17	PRO	CA-C	5.23	1.59	1.52
1	2W	225	GLY	N-CA	5.23	1.52	1.45
1	34	160	PRO	CA-CB	-5.23	1.46	1.53
1	3k	93	PRO	CA-CB	-5.23	1.46	1.53
1	3m	59	VAL	CA-CB	5.23	1.60	1.54
1	3Q	87	HIS	ND1-CE1	5.23	1.37	1.32
1	54	205	LEU	CA-C	5.23	1.59	1.52
1	58	23	TRP	CZ2-CH2	5.23	1.47	1.37
1	5g	47	ALA	CA-C	5.23	1.59	1.52
1	5k	34	PRO	CA-CB	-5.23	1.45	1.53
1	66	2	ILE	CB-CG1	5.23	1.64	1.53
1	6b	120	HIS	CG-ND1	-5.23	1.32	1.38
1	6K	63	GLN	N-CA	-5.23	1.39	1.46
1	74	125	PRO	C-N	5.23	1.40	1.34
1	7l	32	PHE	N-CA	5.23	1.53	1.46
1	7C	84	HIS	CA-CB	5.23	1.59	1.53
1	7K	23	TRP	C-N	5.23	1.40	1.33
1	8u	214	MET	CA-CB	5.23	1.61	1.53
1	8w	10	MET	CA-C	-5.23	1.46	1.52
1	8x	31	ALA	N-CA	5.23	1.52	1.46
1	8B	137	GLY	CA-C	5.23	1.58	1.51
1	9m	28	GLU	CA-CB	5.23	1.61	1.53
1	9t	166	ASP	CA-CB	5.23	1.61	1.53
1	9O	80	TRP	CA-CB	5.23	1.62	1.53
1	ay	185	MET	CA-CB	5.23	1.61	1.53
1	aD	84	HIS	CG-ND1	5.23	1.44	1.38
1	aZ	61	GLY	N-CA	5.23	1.51	1.45
1	bE	211	LEU	N-CA	-5.23	1.40	1.46
1	1b	227	LYS	CA-C	-5.23	1.46	1.52
1	1c	24	VAL	N-CA	5.23	1.52	1.46
1	co	169	TYR	C-N	5.23	1.40	1.33
1	cv	134	ILE	C-N	5.23	1.40	1.33
1	d4	132	ARG	C-N	5.23	1.41	1.33
1	dg	154	ARG	C-N	5.23	1.40	1.33
1	dl	122	PRO	CA-CB	5.23	1.63	1.53
1	dl	183	ASN	CA-C	5.23	1.59	1.52
1	dx	207	PRO	CA-C	5.23	1.58	1.52
1	1m	168	PHE	N-CA	-5.23	1.40	1.46
1	dI	94	GLY	CA-C	-5.23	1.45	1.51
1	dN	120	HIS	CD2-NE2	5.23	1.43	1.37
1	dS	53	ASN	N-CA	5.23	1.52	1.46
1	e3	20	LEU	CA-CB	5.23	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eA	70	LYS	CA-C	5.23	1.59	1.52
1	eE	226	HIS	CE1-NE2	-5.23	1.27	1.32
1	eQ	192	GLN	C-O	-5.23	1.18	1.24
1	fa	153	ILE	CA-CB	-5.23	1.48	1.54
1	fw	41	SER	C-O	-5.23	1.18	1.24
1	fU	3	VAL	CA-CB	-5.23	1.45	1.55
1	fZ	38	PRO	N-CA	-5.23	1.40	1.47
1	fZ	201	ILE	CA-CB	-5.23	1.47	1.54
1	p	143	ARG	C-O	5.23	1.30	1.24
1	M	3	VAL	C-N	5.23	1.40	1.33
1	N	71	GLU	CA-C	5.23	1.59	1.52
1	gu	183	ASN	C-O	-5.23	1.18	1.24
1	gw	192	GLN	CA-CB	5.23	1.61	1.53
1	gS	80	TRP	CA-C	-5.23	1.46	1.52
1	h5	185	MET	CA-CB	-5.23	1.45	1.53
1	hf	169	TYR	C-N	5.23	1.40	1.33
1	hk	64	ALA	CA-C	5.23	1.59	1.52
1	ht	79	GLU	C-N	5.23	1.40	1.33
1	1L	18	ARG	CA-C	-5.23	1.45	1.52
1	hR	230	VAL	CA-CB	5.23	1.60	1.53
1	1M	61	GLY	C-N	5.23	1.41	1.33
1	hU	122	PRO	N-CD	-5.23	1.40	1.47
1	i2	129	ILE	CA-C	-5.23	1.46	1.52
1	i5	168	PHE	C-N	-5.23	1.27	1.33
1	ia	67	GLN	C-N	5.23	1.40	1.33
1	iE	26	VAL	CA-CB	-5.23	1.48	1.54
1	1R	98	GLU	N-CA	5.23	1.54	1.46
1	iN	45	GLU	C-N	5.23	1.38	1.33
1	iW	35	GLU	CA-C	-5.23	1.45	1.52
1	j9	165	VAL	CA-C	-5.23	1.46	1.52
1	jc	8	GLY	CA-C	-5.23	1.47	1.52
1	je	103	ASP	C-N	5.23	1.40	1.34
1	jh	229	ARG	CD-NE	5.23	1.53	1.46
1	jq	62	HIS	CG-CD2	5.23	1.41	1.35
1	jr	84	HIS	CA-C	5.23	1.59	1.53
1	jz	163	ASP	N-CA	-5.23	1.40	1.46
1	jQ	9	GLN	N-CA	5.23	1.52	1.46
1	jQ	64	ALA	C-N	5.23	1.40	1.33
1	jT	20	LEU	CA-CB	-5.23	1.45	1.53
1	k0	88	ALA	N-CA	-5.23	1.39	1.46
1	k1	5	ASN	C-O	-5.23	1.17	1.23
1	kn	96	MET	SD-CE	5.23	1.92	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ks	195	ASN	CA-CB	5.23	1.61	1.53
1	kF	226	HIS	CA-CB	5.23	1.62	1.53
1	kJ	67	GLN	CA-C	5.23	1.59	1.52
1	kK	121	ASN	CA-C	5.23	1.57	1.52
1	25	55	MET	C-N	5.23	1.41	1.33
1	l0	133	TRP	CA-CB	5.23	1.61	1.53
1	27	44	SER	CA-CB	5.23	1.60	1.53
1	ls	12	HIS	ND1-CE1	5.23	1.37	1.32
1	lA	12	HIS	CG-ND1	5.23	1.44	1.38
1	2i	84	HIS	CA-CB	5.23	1.60	1.53
1	2m	210	THR	C-N	-5.23	1.27	1.33
1	2u	36	VAL	C-O	-5.23	1.18	1.24
1	2O	204	ALA	CA-CB	5.23	1.61	1.53
1	33	184	TRP	CA-C	5.23	1.59	1.52
1	37	141	ILE	N-CA	5.23	1.52	1.46
1	39	13	GLN	N-CA	-5.23	1.39	1.45
1	3g	131	LYS	CA-CB	-5.23	1.45	1.53
1	3k	86	VAL	CA-C	-5.23	1.46	1.52
1	3k	94	GLY	CA-C	-5.23	1.46	1.51
1	3o	125	PRO	N-CD	5.23	1.55	1.47
1	3K	167	ARG	C-N	5.23	1.40	1.33
1	43	3	VAL	N-CA	5.23	1.52	1.46
1	4p	124	ILE	N-CA	5.23	1.50	1.46
1	4q	214	MET	N-CA	-5.23	1.40	1.46
1	4B	82	ARG	NE-CZ	-5.23	1.27	1.33
1	4N	159	GLU	CA-C	-5.23	1.47	1.52
1	53	55	MET	N-CA	-5.23	1.40	1.46
1	5E	218	CYS	CA-C	5.23	1.59	1.53
1	5G	4	GLN	C-N	5.23	1.41	1.33
1	5M	163	ASP	C-O	-5.23	1.18	1.24
1	5T	210	THR	CA-CB	5.23	1.60	1.53
1	65	141	ILE	CA-CB	-5.23	1.47	1.54
1	6d	131	LYS	C-N	5.23	1.40	1.33
1	6i	2	ILE	CB-CG2	5.23	1.69	1.52
1	6q	58	THR	C-N	5.23	1.40	1.33
1	6E	45	GLU	N-CA	-5.23	1.39	1.46
1	70	179	GLN	C-O	-5.23	1.18	1.24
1	71	38	PRO	C-N	5.23	1.40	1.33
1	7g	154	ARG	C-O	-5.23	1.17	1.23
1	7i	164	TYR	CA-C	5.23	1.59	1.52
1	7p	12	HIS	CA-CB	5.23	1.62	1.53
1	7u	182	LYS	C-O	-5.23	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7v	197	ASP	CA-C	5.23	1.60	1.52
1	7P	191	VAL	CA-C	-5.23	1.47	1.52
1	80	218	CYS	CA-C	-5.23	1.46	1.53
1	89	23	TRP	CA-CB	5.23	1.61	1.53
1	8l	165	VAL	N-CA	-5.23	1.40	1.46
1	8r	62	HIS	ND1-CE1	-5.23	1.27	1.32
1	8P	189	LEU	C-O	-5.23	1.18	1.24
1	8V	103	ASP	C-N	5.23	1.40	1.33
1	9l	57	ASN	CA-C	5.23	1.59	1.52
1	9s	205	LEU	CA-C	-5.23	1.45	1.52
1	9E	65	ALA	CA-C	-5.23	1.46	1.52
1	9U	120	HIS	ND1-CE1	5.23	1.37	1.32
1	9X	9	GLN	C-N	5.23	1.40	1.33
1	a8	84	HIS	CA-CB	5.23	1.60	1.54
1	af	92	GLU	CA-CB	5.23	1.61	1.53
1	aD	2	ILE	C-N	5.23	1.40	1.33
1	aP	126	VAL	CA-C	5.23	1.59	1.52
1	b8	35	GLU	C-N	5.23	1.40	1.33
1	b8	133	TRP	N-CA	-5.23	1.39	1.46
1	bm	214	MET	N-CA	5.23	1.52	1.46
1	19	173	ARG	N-CA	-5.23	1.40	1.46
1	bH	125	PRO	CA-C	-5.23	1.48	1.53
1	bP	97	ARG	CD-NE	5.23	1.53	1.46
1	bX	198	CYS	N-CA	5.23	1.52	1.46
1	cc	86	VAL	CA-C	5.23	1.59	1.52
1	cd	37	ILE	C-O	-5.23	1.20	1.24
1	cl	112	GLN	N-CA	-5.23	1.40	1.46
1	cI	63	GLN	CA-CB	5.23	1.62	1.53
1	cJ	224	PRO	CA-C	5.23	1.58	1.52
1	cT	184	TRP	CA-CB	5.23	1.61	1.53
1	d9	110	THR	C-N	5.23	1.40	1.33
1	dn	84	HIS	ND1-CE1	5.23	1.37	1.32
1	1k	68	MET	N-CA	5.23	1.52	1.46
1	ds	191	VAL	N-CA	-5.23	1.39	1.46
1	dI	84	HIS	N-CA	-5.23	1.40	1.46
1	dW	138	LEU	C-N	5.23	1.41	1.34
1	e1	159	GLU	CA-C	5.23	1.58	1.53
1	el	120	HIS	CE1-NE2	5.23	1.37	1.32
1	ez	161	PHE	CA-CB	5.23	1.61	1.53
1	eD	166	ASP	CA-C	-5.23	1.46	1.52
1	1t	175	GLU	N-CA	5.23	1.52	1.46
1	fp	81	ASP	N-CA	-5.23	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g2	143	ARG	C-N	5.23	1.41	1.33
1	1	23	TRP	CA-C	5.23	1.59	1.52
1	k	212	GLU	CA-CB	5.23	1.61	1.53
1	2	32	PHE	N-CA	5.23	1.52	1.46
1	2	200	THR	CA-C	-5.23	1.46	1.52
1	L	13	GLN	CA-C	-5.23	1.46	1.52
1	R	66	MET	SD-CE	5.23	1.92	1.79
1	T	163	ASP	C-N	5.23	1.40	1.33
1	V	162	ARG	N-CA	-5.23	1.39	1.46
1	g8	188	THR	CB-OG1	-5.23	1.35	1.43
1	gh	70	LYS	N-CA	5.23	1.52	1.46
1	gh	149	SER	CA-CB	5.23	1.60	1.53
1	1D	101	GLY	C-N	5.23	1.41	1.34
1	gD	120	HIS	N-CA	5.23	1.52	1.45
1	gX	226	HIS	C-N	5.23	1.40	1.33
1	h5	198	CYS	N-CA	-5.23	1.39	1.46
1	hn	181	VAL	CA-CB	-5.23	1.47	1.54
1	hr	95	GLN	CA-CB	5.23	1.60	1.54
1	hz	93	PRO	N-CD	5.23	1.55	1.47
1	hF	86	VAL	C-N	5.23	1.40	1.33
1	hJ	153	ILE	CA-CB	-5.23	1.47	1.53
1	hU	24	VAL	N-CA	5.23	1.53	1.46
1	hY	33	SER	N-CA	-5.23	1.39	1.46
1	i9	196	PRO	N-CD	-5.23	1.40	1.47
1	in	156	GLY	N-CA	5.23	1.51	1.44
1	io	178	SER	C-N	5.23	1.40	1.33
1	iu	141	ILE	CA-CB	-5.23	1.48	1.54
1	iy	82	ARG	C-N	5.23	1.41	1.34
1	iz	131	LYS	C-N	5.23	1.41	1.33
1	iF	12	HIS	CB-CG	5.23	1.57	1.50
1	iZ	111	LEU	CA-C	5.23	1.59	1.52
1	j3	190	LEU	C-O	-5.23	1.17	1.24
1	j9	50	GLN	C-N	5.23	1.41	1.33
1	jg	100	ARG	N-CA	5.23	1.52	1.45
1	jp	135	ILE	C-N	5.23	1.40	1.33
1	jA	168	PHE	N-CA	5.23	1.52	1.46
1	jM	57	ASN	N-CA	-5.23	1.40	1.46
1	k7	98	GLU	CA-CB	5.23	1.60	1.53
1	20	12	HIS	ND1-CE1	5.23	1.37	1.32
1	kg	18	ARG	N-CA	5.23	1.52	1.46
1	kg	176	GLN	CA-CB	5.23	1.62	1.53
1	ki	156	GLY	CA-C	5.23	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kq	130	TYR	CA-CB	5.23	1.61	1.53
1	kJ	83	LEU	CA-CB	5.23	1.62	1.53
1	kR	100	ARG	C-O	-5.23	1.17	1.23
1	kZ	177	ALA	CA-C	5.23	1.59	1.52
1	26	205	LEU	CA-C	5.23	1.59	1.52
1	lu	21	ASN	CA-CB	5.23	1.61	1.53
1	lz	147	PRO	N-CA	-5.23	1.41	1.47
1	lL	38	PRO	C-N	-5.23	1.27	1.33
1	lO	168	PHE	C-O	-5.23	1.18	1.24
1	lP	64	ALA	C-O	-5.23	1.18	1.24
1	2b	67	GLN	CA-C	-5.23	1.45	1.52
1	2b	190	LEU	CA-CB	5.23	1.61	1.53
1	2n	84	HIS	ND1-CE1	5.23	1.37	1.32
1	2s	153	ILE	N-CA	5.23	1.52	1.46
1	2x	181	VAL	CA-CB	5.23	1.61	1.54
1	2I	177	ALA	N-CA	5.23	1.52	1.46
1	2J	46	GLY	C-N	5.23	1.40	1.33
1	2O	38	PRO	N-CD	-5.23	1.40	1.47
1	2Q	30	LYS	C-N	5.23	1.41	1.33
1	3e	221	VAL	CA-C	5.23	1.59	1.52
1	3h	104	ILE	CA-C	-5.23	1.45	1.52
1	3m	189	LEU	C-O	-5.23	1.18	1.24
1	3K	194	ALA	CA-CB	5.23	1.61	1.53
1	45	72	THR	C-N	5.23	1.40	1.33
1	47	59	VAL	N-CA	-5.23	1.39	1.46
1	47	213	GLU	CA-C	-5.23	1.46	1.52
1	4a	110	THR	N-CA	5.23	1.52	1.45
1	4m	168	PHE	N-CA	-5.23	1.40	1.46
1	4n	15	ILE	CA-CB	5.23	1.60	1.54
1	4C	203	LYS	CA-C	5.23	1.59	1.52
1	53	138	LEU	N-CA	-5.23	1.39	1.46
1	5l	168	PHE	N-CA	-5.23	1.40	1.46
1	5s	224	PRO	CA-CB	5.23	1.61	1.53
1	5u	115	ILE	CA-C	-5.23	1.45	1.52
1	5w	102	SER	CA-CB	5.23	1.61	1.53
1	5D	62	HIS	C-N	5.23	1.41	1.33
1	5D	131	LYS	CA-C	-5.23	1.46	1.52
1	5F	149	SER	C-N	5.23	1.40	1.33
1	5U	120	HIS	CA-CB	5.23	1.61	1.53
1	5U	173	ARG	CZ-NH2	-5.23	1.26	1.33
1	64	226	HIS	ND1-CE1	5.23	1.37	1.32
1	6r	216	THR	CA-C	-5.23	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6v	109	SER	CA-C	-5.23	1.46	1.52
1	6D	187	GLU	C-N	5.23	1.40	1.33
1	6I	152	ASP	C-N	5.23	1.40	1.33
1	6P	208	ALA	CA-CB	5.23	1.61	1.53
1	75	66	MET	CA-CB	5.23	1.61	1.53
1	78	184	TRP	CA-CB	5.23	1.61	1.53
1	7L	78	ALA	CA-CB	5.23	1.61	1.53
1	7U	30	LYS	CA-CB	5.23	1.61	1.54
1	8m	120	HIS	CD2-NE2	5.23	1.43	1.37
1	8t	115	ILE	C-O	5.23	1.30	1.24
1	8J	153	ILE	CA-CB	-5.23	1.47	1.53
1	8T	151	LEU	C-N	5.23	1.41	1.33
1	9e	57	ASN	N-CA	5.23	1.52	1.46
1	9k	106	GLY	N-CA	5.23	1.51	1.44
1	9m	73	ILE	CA-C	-5.23	1.46	1.52
1	9I	188	THR	CA-C	-5.23	1.48	1.53
1	9Q	216	THR	C-N	5.23	1.40	1.33
1	ae	117	TRP	CA-CB	5.23	1.61	1.53
1	aI	133	TRP	CA-C	-5.23	1.46	1.52
1	15	149	SER	C-N	-5.23	1.27	1.33
1	b1	229	ARG	CD-NE	5.23	1.53	1.46
1	b7	196	PRO	CA-CB	5.23	1.62	1.53
1	bq	81	ASP	CA-CB	5.23	1.61	1.53
1	bw	102	SER	C-N	5.23	1.41	1.34
1	bG	150	ILE	C-N	5.23	1.41	1.33
1	bR	100	ARG	CD-NE	5.23	1.53	1.46
1	c5	83	LEU	CB-CG	5.23	1.64	1.53
1	cq	226	HIS	ND1-CE1	5.23	1.37	1.32
1	ct	224	PRO	N-CA	5.23	1.53	1.47
1	cz	82	ARG	NE-CZ	5.23	1.38	1.33
1	cS	179	GLN	CA-CB	5.23	1.61	1.53
1	dV	68	MET	CA-C	5.23	1.59	1.52
1	dY	163	ASP	C-N	5.23	1.40	1.33
1	e3	86	VAL	CA-CB	5.23	1.61	1.54
1	ef	166	ASP	CA-C	5.23	1.59	1.52
1	eg	23	TRP	CA-C	5.23	1.59	1.52
1	es	133	TRP	NE1-CE2	-5.23	1.31	1.37
1	eu	10	MET	CG-SD	5.23	1.93	1.80
1	eu	12	HIS	CA-CB	5.23	1.62	1.53
1	eD	207	PRO	CA-C	-5.23	1.47	1.52
1	eG	145	TYR	CA-C	-5.23	1.45	1.52
1	f5	31	ALA	N-CA	-5.23	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1v	183	ASN	C-N	5.23	1.40	1.33
1	1w	21	ASN	C-N	5.23	1.40	1.33
1	fE	3	VAL	CA-CB	5.23	1.60	1.54
1	fF	17	PRO	CA-CB	5.23	1.61	1.53
1	1A	155	GLN	N-CA	-5.23	1.39	1.45
1	x	59	VAL	C-O	-5.23	1.18	1.24
1	ga	163	ASP	CA-CB	5.23	1.61	1.53
1	gd	127	GLY	CA-C	-5.23	1.46	1.52
1	gu	217	ALA	C-N	5.23	1.41	1.33
1	gD	169	TYR	N-CA	5.23	1.52	1.46
1	hS	49	PRO	CA-C	5.23	1.59	1.52
1	iD	147	PRO	C-N	5.23	1.40	1.33
1	1R	112	GLN	CA-C	5.23	1.59	1.52
1	iQ	155	GLN	C-N	5.23	1.41	1.33
1	jf	216	THR	C-N	5.23	1.40	1.33
1	k7	190	LEU	CA-CB	5.23	1.61	1.53
1	ki	34	PRO	N-CA	-5.23	1.40	1.47
1	kB	100	ARG	CD-NE	5.23	1.53	1.46
1	kV	134	ILE	C-N	5.23	1.40	1.33
1	lb	184	TRP	CA-C	5.23	1.59	1.52
1	28	210	THR	N-CA	5.23	1.52	1.45
1	29	107	THR	C-N	5.23	1.40	1.33
1	lI	183	ASN	C-N	-5.23	1.26	1.33
1	lM	50	GLN	C-N	5.23	1.40	1.33
1	2T	113	GLU	CA-C	-5.23	1.46	1.52
1	37	230	VAL	N-CA	5.23	1.52	1.46
1	38	164	TYR	CA-CB	5.23	1.61	1.53
1	3y	224	PRO	N-CD	-5.23	1.40	1.47
1	3J	190	LEU	CA-C	5.23	1.59	1.52
1	3M	84	HIS	CB-CG	5.23	1.57	1.50
1	4j	159	GLU	CB-CG	5.23	1.68	1.52
1	4W	148	THR	CA-CB	5.23	1.62	1.53
1	6g	107	THR	N-CA	5.23	1.52	1.46
1	6q	92	GLU	CA-C	5.23	1.59	1.53
1	6y	163	ASP	CA-CB	5.23	1.62	1.53
1	6O	27	VAL	N-CA	-5.23	1.39	1.46
1	7B	194	ALA	C-N	5.23	1.41	1.33
1	8z	201	ILE	C-O	5.23	1.30	1.24
1	8R	41	SER	CA-C	-5.23	1.45	1.52
1	8S	97	ARG	CA-CB	5.23	1.60	1.53
1	9i	104	ILE	CA-CB	-5.23	1.47	1.54
1	9u	120	HIS	CG-CD2	5.23	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9F	18	ARG	CA-C	-5.23	1.46	1.52
1	9F	104	ILE	CA-CB	-5.23	1.48	1.54
1	ad	29	GLU	CA-CB	5.23	1.61	1.53
1	b4	12	HIS	CD2-NE2	5.23	1.43	1.37
1	bw	39	MET	C-N	5.23	1.40	1.33
1	bV	42	ALA	N-CA	-5.23	1.40	1.46
1	c2	16	SER	CA-C	5.23	1.59	1.53
1	ck	201	ILE	CA-C	5.23	1.59	1.52
1	cW	26	VAL	CA-C	-5.23	1.46	1.52
1	cY	198	CYS	CA-C	5.23	1.59	1.52
1	d9	209	ALA	C-N	5.23	1.40	1.33
1	do	150	ILE	C-N	5.23	1.40	1.33
1	dF	95	GLN	CA-CB	5.23	1.63	1.54
1	1m	123	PRO	N-CD	-5.23	1.40	1.47
1	e5	89	GLY	N-CA	5.23	1.51	1.44
1	et	87	HIS	CA-C	5.23	1.59	1.52
1	eU	127	GLY	C-N	5.23	1.40	1.33
1	f3	211	LEU	C-N	5.23	1.40	1.33
1	f5	137	GLY	CA-C	5.23	1.57	1.52
1	fi	124	ILE	CA-C	5.23	1.58	1.52
1	fv	21	ASN	CA-C	-5.23	1.46	1.52
1	n	99	PRO	C-N	5.23	1.40	1.33
1	g8	40	PHE	N-CA	5.23	1.52	1.46
1	gb	127	GLY	N-CA	5.23	1.52	1.45
1	gj	166	ASP	N-CA	-5.23	1.40	1.46
1	gA	194	ALA	C-N	5.23	1.40	1.33
1	1F	229	ARG	CD-NE	5.23	1.53	1.46
1	gO	87	HIS	CD2-NE2	5.23	1.43	1.37
1	gU	8	GLY	N-CA	5.23	1.50	1.45
1	gX	171	THR	N-CA	-5.23	1.40	1.46
1	hf	12	HIS	C-N	5.23	1.40	1.33
1	hh	175	GLU	C-N	5.23	1.40	1.33
1	hi	214	MET	N-CA	-5.23	1.40	1.46
1	hL	182	LYS	N-CA	-5.23	1.40	1.46
1	hR	214	MET	C-O	-5.23	1.18	1.24
1	hY	13	GLN	CA-C	-5.23	1.46	1.52
1	i1	62	HIS	CE1-NE2	5.23	1.37	1.32
1	i3	18	ARG	CD-NE	5.23	1.53	1.46
1	iD	64	ALA	C-N	5.23	1.40	1.33
1	iY	11	VAL	C-N	5.23	1.40	1.33
1	iZ	155	GLN	C-N	5.23	1.41	1.33
1	ja	65	ALA	C-O	-5.23	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jh	193	ASN	CA-C	5.23	1.59	1.52
1	jk	212	GLU	CA-CB	5.23	1.61	1.53
1	jN	180	GLU	C-O	5.23	1.30	1.24
1	jP	82	ARG	CA-C	5.23	1.59	1.52
1	jQ	146	SER	CA-CB	5.23	1.61	1.53
1	jX	55	MET	CA-CB	5.23	1.61	1.53
1	kK	120	HIS	ND1-CE1	5.23	1.37	1.32
1	kM	58	THR	CA-C	5.23	1.59	1.52
1	l6	97	ARG	CA-C	5.23	1.59	1.52
1	l6	105	ALA	CA-C	5.23	1.59	1.52
1	27	19	THR	CA-CB	5.23	1.61	1.53
1	lD	186	THR	CA-C	5.23	1.59	1.52
1	lG	201	ILE	C-N	5.23	1.41	1.33
1	2k	52	LEU	C-N	5.23	1.41	1.34
1	2k	129	ILE	C-O	5.23	1.29	1.24
1	2u	76	GLU	N-CA	5.23	1.52	1.46
1	2y	214	MET	CA-CB	5.23	1.61	1.53
1	36	144	MET	C-N	5.23	1.41	1.33
1	3l	12	HIS	ND1-CE1	5.23	1.37	1.32
1	3E	152	ASP	C-N	5.23	1.38	1.33
1	3O	114	GLN	N-CA	-5.23	1.40	1.46
1	41	59	VAL	C-O	-5.23	1.18	1.24
1	42	108	THR	CA-CB	5.23	1.60	1.53
1	43	117	TRP	CA-CB	5.23	1.61	1.53
1	4i	117	TRP	N-CA	-5.23	1.40	1.46
1	4u	167	ARG	C-N	5.23	1.40	1.33
1	4x	26	VAL	N-CA	-5.23	1.40	1.46
1	52	4	GLN	N-CA	-5.23	1.39	1.46
1	5i	191	VAL	CA-C	-5.23	1.45	1.52
1	5H	218	CYS	CA-CB	5.23	1.61	1.53
1	5K	168	PHE	CA-C	5.23	1.59	1.52
1	5T	115	ILE	CA-C	-5.23	1.46	1.52
1	61	54	THR	N-CA	5.23	1.52	1.46
1	6h	33	SER	N-CA	-5.23	1.39	1.45
1	6i	38	PRO	CA-CB	5.23	1.61	1.53
1	6p	2	ILE	C-O	-5.23	1.18	1.24
1	6E	213	GLU	C-O	-5.23	1.18	1.24
1	76	2	ILE	CA-CB	5.23	1.60	1.54
1	7r	163	ASP	N-CA	-5.23	1.40	1.46
1	7s	154	ARG	CD-NE	5.23	1.53	1.46
1	7t	1	PRO	N-CA	5.23	1.54	1.47
1	7T	163	ASP	N-CA	5.23	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7W	62	HIS	CE1-NE2	5.23	1.37	1.32
1	7W	167	ARG	CD-NE	5.23	1.53	1.46
1	8a	120	HIS	CA-CB	5.23	1.62	1.53
1	8s	79	GLU	N-CA	5.23	1.52	1.46
1	8u	67	GLN	N-CA	-5.23	1.40	1.46
1	8B	166	ASP	C-N	5.23	1.40	1.33
1	8E	124	ILE	N-CA	5.23	1.52	1.46
1	8O	134	ILE	CA-C	5.23	1.59	1.52
1	8Y	47	ALA	C-N	5.23	1.41	1.33
1	9m	120	HIS	N-CA	5.23	1.52	1.45
1	9J	159	GLU	CA-C	5.23	1.58	1.53
1	9S	221	VAL	N-CA	-5.23	1.40	1.46
1	9V	135	ILE	N-CA	-5.23	1.40	1.46
1	ae	11	VAL	CA-C	-5.23	1.46	1.52
1	ai	224	PRO	CA-CB	5.23	1.61	1.53
1	av	13	GLN	CA-CB	5.23	1.61	1.53
1	13	133	TRP	C-N	5.23	1.40	1.33
1	14	226	HIS	CD2-NE2	5.23	1.43	1.37
1	aO	150	ILE	CA-CB	-5.23	1.47	1.54
1	bd	51	ASP	C-N	5.23	1.41	1.33
1	bf	21	ASN	CA-CB	5.23	1.62	1.53
1	bf	100	ARG	CZ-NH2	-5.23	1.26	1.33
1	bi	14	ALA	N-CA	-5.23	1.39	1.46
1	bz	200	THR	N-CA	-5.23	1.40	1.46
1	bM	68	MET	C-N	5.23	1.40	1.33
1	bW	72	THR	CA-CB	5.23	1.61	1.53
1	c0	177	ALA	CA-C	-5.23	1.45	1.52
1	1d	131	LYS	CA-C	5.23	1.59	1.52
1	ch	161	PHE	CA-CB	5.23	1.62	1.53
1	cy	153	ILE	CA-CB	5.23	1.60	1.54
1	cF	199	LYS	C-N	5.23	1.40	1.33
1	cG	20	LEU	CA-CB	5.23	1.61	1.53
1	cG	132	ARG	C-N	5.23	1.40	1.33
1	cN	53	ASN	C-N	5.23	1.40	1.33
1	d1	196	PRO	C-O	-5.23	1.17	1.24
1	1i	4	GLN	C-N	5.23	1.40	1.33
1	d8	87	HIS	CG-CD2	5.23	1.41	1.35
1	da	36	VAL	C-N	5.23	1.39	1.33
1	dJ	17	PRO	CA-CB	5.23	1.61	1.53
1	dL	158	LYS	C-N	5.23	1.39	1.32
1	dU	52	LEU	CA-C	-5.23	1.46	1.52
1	eb	39	MET	CA-C	5.23	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	el	221	VAL	CA-C	5.23	1.60	1.52
1	es	142	VAL	N-CA	-5.23	1.40	1.46
1	ev	165	VAL	CA-C	5.23	1.59	1.52
1	ey	59	VAL	CA-C	5.23	1.58	1.52
1	eE	184	TRP	CD1-NE1	-5.23	1.26	1.37
1	eK	84	HIS	N-CA	5.23	1.53	1.46
1	eL	99	PRO	CA-C	5.23	1.57	1.52
1	eQ	20	LEU	CA-C	5.23	1.59	1.52
1	f3	10	MET	C-N	5.23	1.40	1.33
1	fq	55	MET	C-N	-5.23	1.27	1.33
1	fw	167	ARG	CD-NE	5.23	1.53	1.46
1	fA	16	SER	CA-CB	5.23	1.62	1.53
1	fK	225	GLY	CA-C	-5.23	1.46	1.51
1	fN	30	LYS	C-N	5.23	1.41	1.33
1	fN	144	MET	CA-CB	5.23	1.61	1.53
1	fO	218	CYS	C-N	5.23	1.41	1.33
1	fR	72	THR	C-N	5.23	1.40	1.33
1	fV	1	PRO	N-CA	5.23	1.54	1.47
1	g1	75	GLU	C-O	-5.23	1.18	1.24
1	g5	202	LEU	CA-C	-5.23	1.46	1.52
1	g	223	GLY	CA-C	-5.23	1.44	1.51
1	r	120	HIS	ND1-CE1	5.23	1.37	1.32
1	z	124	ILE	CB-CG1	5.23	1.64	1.53
1	M	96	MET	CA-CB	5.23	1.60	1.53
1	7	161	PHE	CA-CB	5.23	1.61	1.53
1	gg	99	PRO	N-CA	-5.23	1.40	1.47
1	gj	191	VAL	C-N	5.23	1.41	1.33
1	gu	53	ASN	CA-C	5.23	1.59	1.52
1	gF	168	PHE	C-N	5.23	1.41	1.33
1	gM	148	THR	C-N	5.23	1.40	1.33
1	1I	79	GLU	CA-C	-5.23	1.46	1.52
1	hk	69	LEU	C-N	5.23	1.40	1.33
1	hC	200	THR	CA-CB	-5.23	1.44	1.53
1	ip	11	VAL	C-N	-5.23	1.26	1.33
1	iW	23	TRP	C-O	5.23	1.30	1.24
1	jc	86	VAL	C-N	5.23	1.41	1.33
1	jE	101	GLY	CA-C	-5.23	1.45	1.52
1	jV	82	ARG	CD-NE	5.23	1.53	1.46
1	k0	68	MET	N-CA	5.23	1.52	1.46
1	k2	2	ILE	CA-CB	-5.23	1.48	1.54
1	ke	107	THR	C-N	5.23	1.41	1.33
1	le	68	MET	C-N	5.23	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2V	84	HIS	CA-CB	5.23	1.60	1.53
1	3l	10	MET	CA-C	-5.23	1.46	1.52
1	3H	150	ILE	CA-C	-5.23	1.46	1.52
1	3K	118	MET	CA-C	5.23	1.59	1.52
1	3Z	222	GLY	CA-C	5.23	1.59	1.52
1	41	132	ARG	CA-CB	5.23	1.61	1.53
1	48	68	MET	CA-CB	5.23	1.61	1.53
1	4G	82	ARG	CZ-NH1	-5.23	1.25	1.32
1	4K	128	GLU	C-N	5.23	1.40	1.33
1	4S	36	VAL	CA-CB	-5.23	1.46	1.54
1	57	186	THR	CA-C	-5.23	1.45	1.52
1	5q	126	VAL	C-N	-5.23	1.27	1.33
1	5K	89	GLY	N-CA	5.23	1.51	1.44
1	5Q	227	LYS	CA-C	-5.23	1.46	1.52
1	5S	57	ASN	N-CA	-5.23	1.40	1.46
1	65	8	GLY	C-O	5.23	1.29	1.23
1	6z	162	ARG	N-CA	-5.23	1.39	1.46
1	6R	200	THR	N-CA	5.23	1.52	1.46
1	71	195	ASN	N-CA	5.23	1.51	1.45
1	7s	191	VAL	CA-CB	5.23	1.60	1.54
1	8V	68	MET	C-N	5.23	1.40	1.33
1	8Y	43	LEU	N-CA	-5.23	1.39	1.46
1	90	85	PRO	CA-C	5.23	1.59	1.52
1	92	62	HIS	C-O	-5.23	1.17	1.24
1	9e	61	GLY	C-N	5.23	1.40	1.33
1	9n	30	LYS	CA-CB	5.23	1.61	1.53
1	9x	59	VAL	N-CA	-5.23	1.40	1.46
1	9N	156	GLY	C-N	-5.23	1.28	1.34
1	at	84	HIS	ND1-CE1	5.23	1.37	1.32
1	bb	231	LEU	CA-C	5.23	1.64	1.52
1	bj	174	ALA	N-CA	-5.23	1.39	1.46
1	ca	62	HIS	ND1-CE1	-5.23	1.27	1.32
1	ce	51	ASP	CA-C	5.23	1.59	1.52
1	ci	117	TRP	NE1-CE2	-5.23	1.31	1.37
1	1e	208	ALA	CA-CB	5.23	1.61	1.53
1	cE	170	LYS	N-CA	5.23	1.52	1.46
1	1g	65	ALA	CA-C	5.23	1.59	1.52
1	d9	87	HIS	CG-ND1	5.23	1.44	1.38
1	dg	68	MET	CA-CB	5.23	1.61	1.53
1	dy	80	TRP	CA-CB	5.23	1.61	1.53
1	dN	44	SER	CA-CB	5.23	1.61	1.53
1	em	72	THR	C-O	-5.23	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fJ	78	ALA	CA-C	5.23	1.59	1.52
1	l	229	ARG	CA-C	5.23	1.59	1.52
1	9	83	LEU	C-O	5.23	1.31	1.23
1	gc	4	GLN	C-N	5.22	1.40	1.33
1	gj	66	MET	CA-CB	5.22	1.61	1.53
1	gz	85	PRO	CA-C	-5.22	1.48	1.53
1	gH	211	LEU	CA-CB	5.22	1.61	1.53
1	gJ	213	GLU	C-N	5.22	1.41	1.33
1	gQ	82	ARG	CA-CB	5.22	1.61	1.53
1	h8	147	PRO	CA-C	-5.22	1.45	1.52
1	hq	194	ALA	N-CA	-5.22	1.39	1.46
1	hC	35	GLU	CA-CB	5.22	1.62	1.53
1	hE	56	LEU	CB-CG	5.22	1.63	1.53
1	hM	228	ALA	C-N	5.22	1.40	1.33
1	hR	196	PRO	N-CD	5.22	1.55	1.47
1	iK	84	HIS	CG-CD2	-5.22	1.30	1.35
1	iL	83	LEU	N-CA	-5.22	1.39	1.46
1	iP	91	ILE	CA-CB	-5.22	1.47	1.54
1	jd	111	LEU	CA-CB	5.22	1.61	1.53
1	jj	130	TYR	CA-C	5.22	1.59	1.52
1	jm	133	TRP	NE1-CE2	5.22	1.43	1.37
1	jq	114	GLN	C-N	5.22	1.40	1.33
1	ju	230	VAL	N-CA	5.22	1.53	1.46
1	jv	135	ILE	CA-CB	5.22	1.60	1.54
1	1W	41	SER	CA-CB	5.22	1.61	1.53
1	jN	66	MET	CA-CB	5.22	1.61	1.53
1	1Z	201	ILE	CA-CB	5.22	1.61	1.54
1	k4	5	ASN	CA-C	-5.22	1.46	1.52
1	kf	190	LEU	C-N	5.22	1.40	1.33
1	kj	168	PHE	CA-C	-5.22	1.46	1.52
1	km	185	MET	C-N	5.22	1.41	1.34
1	kA	166	ASP	N-CA	-5.22	1.40	1.46
1	kR	214	MET	CA-CB	5.22	1.61	1.53
1	kV	231	LEU	CB-CG	5.22	1.64	1.53
1	lk	97	ARG	CZ-NH1	-5.22	1.25	1.32
1	ln	170	LYS	N-CA	5.22	1.52	1.46
1	lt	171	THR	C-N	5.22	1.41	1.34
1	lv	31	ALA	N-CA	-5.22	1.39	1.46
1	lF	229	ARG	N-CA	-5.22	1.39	1.46
1	2c	179	GLN	CA-CB	5.22	1.61	1.53
1	2i	36	VAL	N-CA	5.22	1.52	1.46
1	2u	163	ASP	CA-C	-5.22	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2Z	149	SER	CA-CB	5.22	1.61	1.53
1	3E	131	LYS	CA-CB	5.22	1.61	1.53
1	3H	135	ILE	CA-C	5.22	1.59	1.52
1	3O	182	LYS	CA-CB	5.22	1.61	1.53
1	3T	203	LYS	C-N	-5.22	1.26	1.33
1	3X	159	GLU	CA-CB	5.22	1.61	1.53
1	42	100	ARG	N-CA	-5.22	1.39	1.45
1	4d	75	GLU	CA-C	-5.22	1.46	1.52
1	4h	33	SER	C-N	-5.22	1.29	1.33
1	4m	214	MET	C-N	5.22	1.41	1.33
1	4p	208	ALA	CA-C	-5.22	1.47	1.53
1	4q	181	VAL	C-N	5.22	1.40	1.33
1	4C	228	ALA	N-CA	5.22	1.52	1.46
1	4K	148	THR	C-N	5.22	1.40	1.33
1	4R	5	ASN	CA-C	5.22	1.59	1.52
1	5w	16	SER	CA-CB	5.22	1.61	1.53
1	5y	80	TRP	CA-CB	5.22	1.61	1.53
1	5A	180	GLU	CA-C	-5.22	1.46	1.52
1	5Z	173	ARG	CZ-NH2	-5.22	1.26	1.33
1	5Z	222	GLY	N-CA	5.22	1.52	1.45
1	69	18	ARG	CZ-NH1	-5.22	1.25	1.32
1	6f	202	LEU	C-N	5.22	1.40	1.33
1	6k	194	ALA	CA-C	5.22	1.59	1.52
1	6r	153	ILE	C-O	-5.22	1.19	1.24
1	6t	18	ARG	CA-CB	5.22	1.61	1.53
1	6Y	6	LEU	CA-C	-5.22	1.45	1.52
1	76	115	ILE	CA-C	-5.22	1.46	1.52
1	79	59	VAL	CA-CB	5.22	1.60	1.54
1	7f	53	ASN	C-N	-5.22	1.27	1.33
1	7g	97	ARG	CD-NE	5.22	1.53	1.46
1	7o	151	LEU	CA-C	5.22	1.60	1.52
1	7M	136	LEU	CA-CB	5.22	1.61	1.53
1	7P	171	THR	C-N	5.22	1.40	1.33
1	83	79	GLU	C-N	5.22	1.40	1.33
1	8r	68	MET	CA-C	5.22	1.59	1.52
1	8C	42	ALA	CA-C	-5.22	1.45	1.52
1	8X	91	ILE	C-O	5.22	1.30	1.24
1	91	92	GLU	N-CA	-5.22	1.41	1.46
1	92	154	ARG	CA-C	5.22	1.59	1.52
1	95	195	ASN	CA-C	5.22	1.59	1.53
1	96	18	ARG	N-CA	-5.22	1.40	1.46
1	9q	140	LYS	C-O	-5.22	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9I	71	GLU	CA-C	-5.22	1.46	1.52
1	9X	141	ILE	CA-CB	5.22	1.61	1.54
1	ab	3	VAL	C-N	5.22	1.41	1.33
1	av	198	CYS	CA-CB	-5.22	1.45	1.53
1	az	99	PRO	CA-C	5.22	1.58	1.52
1	aA	164	TYR	N-CA	5.22	1.52	1.46
1	aQ	35	GLU	CA-CB	5.22	1.61	1.53
1	aS	54	THR	CA-CB	5.22	1.61	1.53
1	aY	60	GLY	N-CA	-5.22	1.37	1.45
1	bc	182	LYS	CA-C	-5.22	1.46	1.52
1	bq	32	PHE	N-CA	-5.22	1.40	1.46
1	bN	164	TYR	CA-CB	5.22	1.61	1.53
1	1b	146	SER	CA-C	-5.22	1.47	1.53
1	c0	74	ASN	C-N	5.22	1.41	1.34
1	c7	63	GLN	CA-C	-5.22	1.46	1.52
1	cg	3	VAL	CA-CB	-5.22	1.48	1.54
1	cq	85	PRO	CA-CB	5.22	1.61	1.53
1	cq	219	GLN	C-N	5.22	1.39	1.33
1	cA	84	HIS	CA-CB	5.22	1.60	1.53
1	cF	44	SER	CA-CB	5.22	1.62	1.53
1	cN	66	MET	CA-CB	5.22	1.61	1.53
1	cO	12	HIS	CE1-NE2	-5.22	1.27	1.32
1	cR	37	ILE	C-N	5.22	1.41	1.33
1	dg	163	ASP	CA-CB	5.22	1.61	1.53
1	dl	185	MET	C-N	5.22	1.40	1.33
1	do	23	TRP	NE1-CE2	-5.22	1.31	1.37
1	dz	185	MET	CA-C	-5.22	1.46	1.52
1	e2	169	TYR	CA-C	5.22	1.59	1.52
1	e4	101	GLY	N-CA	5.22	1.52	1.45
1	ec	127	GLY	CA-C	5.22	1.58	1.51
1	ez	4	GLN	C-O	5.22	1.30	1.23
1	eE	100	ARG	CD-NE	5.22	1.53	1.46
1	1s	153	ILE	C-O	-5.22	1.18	1.24
1	eL	73	ILE	CA-C	-5.22	1.46	1.52
1	eW	227	LYS	C-N	5.22	1.40	1.33
1	fh	44	SER	CA-CB	5.22	1.61	1.53
1	fr	109	SER	C-O	5.22	1.29	1.24
1	fK	115	ILE	C-N	5.22	1.40	1.33
1	fP	21	ASN	C-N	5.22	1.40	1.33
1	g0	220	GLY	CA-C	-5.22	1.44	1.51
1	0	202	LEU	CA-C	-5.22	1.45	1.52
1	d	71	GLU	CA-CB	5.22	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	158	LYS	CA-CB	5.22	1.61	1.53
1	G	230	VAL	C-N	5.22	1.40	1.33
1	1E	48	THR	C-N	-5.22	1.26	1.33
1	gE	44	SER	C-N	5.22	1.40	1.33
1	gN	42	ALA	N-CA	-5.22	1.39	1.46
1	1G	32	PHE	C-N	5.22	1.41	1.33
1	gX	155	GLN	CA-CB	5.22	1.62	1.53
1	h0	42	ALA	N-CA	-5.22	1.40	1.46
1	h2	128	GLU	CA-C	5.22	1.59	1.52
1	hc	186	THR	C-O	-5.22	1.18	1.24
1	he	44	SER	CA-CB	5.22	1.61	1.53
1	hj	83	LEU	CA-CB	5.22	1.61	1.53
1	1J	22	ALA	CA-C	5.22	1.59	1.52
1	hv	71	GLU	N-CA	-5.22	1.39	1.46
1	hw	116	GLY	C-N	5.22	1.41	1.33
1	hG	111	LEU	CA-C	5.22	1.59	1.52
1	1O	7	GLN	C-N	5.22	1.39	1.33
1	ii	37	ILE	CA-C	5.22	1.57	1.52
1	iz	204	ALA	N-CA	-5.22	1.40	1.46
1	iC	159	GLU	N-CA	-5.22	1.37	1.46
1	iY	68	MET	CA-C	5.22	1.59	1.52
1	iY	208	ALA	CA-C	5.22	1.59	1.52
1	iZ	4	GLN	CA-C	-5.22	1.46	1.53
1	jh	139	ASN	CA-C	5.22	1.59	1.52
1	jz	46	GLY	C-O	5.22	1.30	1.24
1	jF	112	GLN	CA-C	5.22	1.59	1.52
1	jT	180	GLU	CA-CB	5.22	1.61	1.53
1	kq	58	THR	C-N	5.22	1.40	1.33
1	kC	151	LEU	C-N	5.22	1.41	1.33
1	kR	40	PHE	CA-CB	5.22	1.61	1.53
1	kR	135	ILE	C-N	5.22	1.41	1.33
1	lf	154	ARG	N-CA	-5.22	1.39	1.45
1	2b	127	GLY	C-N	5.22	1.40	1.33
1	2e	133	TRP	NE1-CE2	-5.22	1.31	1.37
1	2J	30	LYS	CA-CB	5.22	1.61	1.54
1	2R	127	GLY	C-N	5.22	1.40	1.33
1	2V	115	ILE	C-O	-5.22	1.18	1.24
1	31	157	PRO	N-CD	5.22	1.55	1.47
1	3E	139	ASN	C-O	-5.22	1.18	1.24
1	3U	161	PHE	CA-C	5.22	1.59	1.52
1	3X	2	ILE	CB-CG1	5.22	1.63	1.53
1	40	115	ILE	CB-CG1	5.22	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	47	25	LYS	C-O	-5.22	1.18	1.24
1	49	147	PRO	C-N	5.22	1.40	1.33
1	4r	121	ASN	CA-C	5.22	1.58	1.52
1	4w	67	GLN	CA-CB	5.22	1.61	1.53
1	4y	29	GLU	CA-CB	5.22	1.61	1.53
1	4z	62	HIS	CG-ND1	5.22	1.44	1.38
1	4M	120	HIS	CA-CB	5.22	1.60	1.53
1	4Y	59	VAL	CA-CB	5.22	1.60	1.54
1	5q	179	GLN	CA-C	5.22	1.59	1.52
1	5y	24	VAL	C-N	5.22	1.40	1.33
1	5K	204	ALA	N-CA	5.22	1.52	1.46
1	5O	6	LEU	CA-CB	5.22	1.62	1.53
1	62	87	HIS	N-CA	-5.22	1.39	1.46
1	6m	230	VAL	CA-CB	5.22	1.60	1.53
1	6y	8	GLY	C-N	5.22	1.40	1.33
1	6T	75	GLU	CA-CB	5.22	1.61	1.53
1	6Y	151	LEU	CA-C	-5.22	1.45	1.52
1	77	132	ARG	CD-NE	5.22	1.53	1.46
1	77	172	LEU	C-N	5.22	1.41	1.34
1	78	29	GLU	CA-C	5.22	1.58	1.52
1	7n	12	HIS	CA-C	-5.22	1.46	1.52
1	7K	132	ARG	C-N	5.22	1.41	1.33
1	7Q	39	MET	CA-CB	5.22	1.61	1.53
1	7W	39	MET	CA-CB	5.22	1.61	1.53
1	8e	86	VAL	N-CA	5.22	1.52	1.46
1	8f	75	GLU	CA-CB	5.22	1.61	1.53
1	8s	134	ILE	C-N	5.22	1.40	1.33
1	8x	57	ASN	CA-CB	5.22	1.62	1.53
1	8D	138	LEU	CA-CB	5.22	1.61	1.53
1	8F	49	PRO	CA-C	-5.22	1.44	1.52
1	8I	229	ARG	CD-NE	5.22	1.53	1.46
1	8R	131	LYS	N-CA	-5.22	1.40	1.46
1	8Z	11	VAL	C-O	-5.22	1.18	1.24
1	9h	73	ILE	CA-CB	-5.22	1.47	1.54
1	9B	173	ARG	CZ-NH2	-5.22	1.26	1.33
1	9I	90	PRO	CA-CB	5.22	1.61	1.53
1	9T	144	MET	CA-C	5.22	1.59	1.52
1	an	124	ILE	C-O	-5.22	1.18	1.24
1	ar	212	GLU	N-CA	-5.22	1.40	1.46
1	aP	28	GLU	N-CA	-5.22	1.39	1.46
1	bc	3	VAL	C-N	5.22	1.40	1.33
1	bk	164	TYR	C-N	5.22	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bo	164	TYR	CZ-OH	5.22	1.49	1.38
1	bp	182	LYS	C-N	5.22	1.40	1.33
1	bG	12	HIS	CG-ND1	-5.22	1.32	1.38
1	bH	191	VAL	C-N	5.22	1.41	1.34
1	bS	144	MET	N-CA	5.22	1.52	1.46
1	c3	12	HIS	CD2-NE2	5.22	1.43	1.37
1	c4	159	GLU	CA-C	5.22	1.58	1.53
1	cc	25	LYS	CA-C	5.22	1.59	1.52
1	cl	167	ARG	N-CA	-5.22	1.40	1.46
1	cp	167	ARG	CZ-NH1	-5.22	1.25	1.32
1	cp	197	ASP	CA-CB	5.22	1.61	1.53
1	cH	93	PRO	CA-C	-5.22	1.46	1.52
1	cJ	220	GLY	CA-C	-5.22	1.44	1.51
1	cX	136	LEU	CA-C	-5.22	1.46	1.52
1	d0	227	LYS	N-CA	-5.22	1.39	1.46
1	d2	87	HIS	C-O	5.22	1.30	1.23
1	d3	46	GLY	CA-C	-5.22	1.44	1.51
1	d6	104	ILE	CA-C	-5.22	1.46	1.52
1	db	131	LYS	CA-CB	5.22	1.61	1.53
1	df	65	ALA	C-N	5.22	1.40	1.33
1	dj	37	ILE	CA-CB	5.22	1.60	1.54
1	dz	173	ARG	CA-C	-5.22	1.45	1.52
1	dZ	182	LYS	CA-CB	5.22	1.61	1.53
1	ed	230	VAL	CA-C	5.22	1.58	1.52
1	ei	91	ILE	CA-C	5.22	1.58	1.52
1	eq	96	MET	C-N	5.22	1.40	1.33
1	fb	183	ASN	N-CA	-5.22	1.39	1.46
1	fc	88	ALA	N-CA	5.22	1.52	1.45
1	fB	84	HIS	CD2-NE2	5.22	1.43	1.37
1	fB	84	HIS	C-O	-5.22	1.18	1.24
1	c	97	ARG	N-CA	5.22	1.52	1.46
1	I	66	MET	CA-C	5.22	1.59	1.52
1	U	140	LYS	CA-CB	5.22	1.61	1.53
1	1F	110	THR	CA-C	-5.22	1.46	1.52
1	h9	75	GLU	N-CA	-5.22	1.40	1.46
1	hU	229	ARG	CA-CB	5.22	1.60	1.53
1	i5	83	LEU	CA-CB	5.22	1.61	1.53
1	i6	219	GLN	CA-CB	5.22	1.60	1.53
1	ik	12	HIS	ND1-CE1	5.22	1.37	1.32
1	iM	157	PRO	N-CA	5.22	1.54	1.47
1	jM	160	PRO	C-N	5.22	1.40	1.33
1	ka	48	THR	CA-CB	5.22	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kR	183	ASN	CA-C	5.22	1.59	1.52
1	lM	125	PRO	C-N	5.22	1.40	1.33
1	2m	62	HIS	CE1-NE2	5.22	1.37	1.32
1	2U	161	PHE	CA-CB	5.22	1.61	1.53
1	36	49	PRO	CA-CB	-5.22	1.46	1.53
1	38	176	GLN	C-N	5.22	1.40	1.33
1	3b	103	ASP	CA-C	-5.22	1.45	1.52
1	3E	125	PRO	CA-C	-5.22	1.48	1.53
1	3F	59	VAL	CA-CB	5.22	1.60	1.54
1	45	18	ARG	CD-NE	5.22	1.53	1.46
1	5h	193	ASN	CA-CB	5.22	1.61	1.53
1	5V	12	HIS	ND1-CE1	5.22	1.37	1.32
1	5X	74	ASN	C-N	5.22	1.40	1.33
1	5Y	2	ILE	N-CA	-5.22	1.40	1.46
1	6h	84	HIS	CB-CG	-5.22	1.42	1.50
1	6w	124	ILE	N-CA	-5.22	1.42	1.46
1	6A	163	ASP	N-CA	-5.22	1.40	1.46
1	6O	2	ILE	N-CA	5.22	1.52	1.46
1	6T	197	ASP	C-O	-5.22	1.18	1.24
1	6U	35	GLU	CA-CB	5.22	1.61	1.53
1	77	133	TRP	CA-C	5.22	1.59	1.52
1	7p	62	HIS	CE1-NE2	5.22	1.37	1.32
1	7K	136	LEU	N-CA	-5.22	1.40	1.46
1	88	161	PHE	CA-C	5.22	1.59	1.52
1	8b	99	PRO	C-O	-5.22	1.17	1.23
1	8h	43	LEU	CA-C	-5.22	1.45	1.52
1	8U	130	TYR	CA-C	5.22	1.59	1.52
1	9F	32	PHE	CA-CB	5.22	1.60	1.53
1	9K	159	GLU	CA-C	5.22	1.59	1.53
1	9V	85	PRO	N-CA	-5.22	1.40	1.47
1	9X	71	GLU	CA-C	5.22	1.59	1.52
1	9Z	55	MET	CA-C	5.22	1.59	1.52
1	af	80	TRP	NE1-CE2	-5.22	1.31	1.37
1	aA	106	GLY	N-CA	5.22	1.53	1.45
1	bb	39	MET	N-CA	-5.22	1.40	1.46
1	bX	93	PRO	N-CA	-5.22	1.41	1.47
1	ct	105	ALA	CA-C	5.22	1.59	1.52
1	cG	195	ASN	C-N	5.22	1.40	1.33
1	de	52	LEU	CA-CB	5.22	1.61	1.53
1	dw	59	VAL	CA-C	5.22	1.58	1.52
1	dx	97	ARG	NE-CZ	-5.22	1.27	1.33
1	1o	5	ASN	N-CA	-5.22	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1o	48	THR	C-O	5.22	1.30	1.23
1	ek	121	ASN	N-CA	-5.22	1.37	1.45
1	1q	123	PRO	C-N	5.22	1.38	1.33
1	1s	120	HIS	CA-CB	-5.22	1.44	1.53
1	fM	86	VAL	C-N	5.22	1.41	1.33
1	fM	146	SER	CA-C	5.22	1.59	1.53
1	r	28	GLU	CA-C	-5.22	1.46	1.52
1	v	136	LEU	C-N	5.22	1.40	1.33
1	P	173	ARG	N-CA	-5.22	1.40	1.46
1	go	33	SER	CA-CB	5.22	1.61	1.54
1	gs	16	SER	CA-C	5.22	1.59	1.53
1	gs	53	ASN	N-CA	5.22	1.52	1.46
1	gw	196	PRO	CA-C	5.22	1.59	1.52
1	1E	138	LEU	N-CA	-5.22	1.40	1.46
1	gC	88	ALA	C-N	5.22	1.41	1.33
1	gF	55	MET	CA-CB	5.22	1.61	1.53
1	h0	228	ALA	N-CA	5.22	1.52	1.46
1	h9	80	TRP	CZ2-CH2	5.22	1.47	1.37
1	h9	112	GLN	CA-C	-5.22	1.45	1.52
1	ha	124	ILE	CA-CB	-5.22	1.48	1.53
1	hd	159	GLU	CA-CB	5.22	1.60	1.53
1	hk	100	ARG	CD-NE	5.22	1.53	1.46
1	hN	228	ALA	C-N	5.22	1.40	1.33
1	hT	33	SER	CA-C	5.22	1.58	1.53
1	hV	174	ALA	N-CA	-5.22	1.39	1.46
1	i3	96	MET	C-N	5.22	1.40	1.33
1	i9	215	MET	C-N	5.22	1.40	1.33
1	ik	14	ALA	N-CA	-5.22	1.39	1.46
1	1P	37	ILE	CA-C	5.22	1.57	1.52
1	io	8	GLY	C-O	-5.22	1.18	1.23
1	iA	133	TRP	CA-C	5.22	1.59	1.52
1	iN	212	GLU	N-CA	5.22	1.52	1.46
1	j0	23	TRP	NE1-CE2	-5.22	1.31	1.37
1	j6	138	LEU	N-CA	5.22	1.52	1.46
1	jF	185	MET	CA-C	5.22	1.59	1.52
1	jS	20	LEU	CA-CB	5.22	1.61	1.53
1	ks	168	PHE	CA-C	5.22	1.59	1.52
1	ky	39	MET	CA-CB	5.22	1.61	1.53
1	23	69	LEU	C-N	5.22	1.40	1.33
1	kT	111	LEU	CA-C	5.22	1.59	1.52
1	l2	55	MET	N-CA	5.22	1.52	1.46
1	lg	4	GLN	CA-CB	5.22	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lh	104	ILE	CA-CB	-5.22	1.48	1.54
1	lE	2	ILE	CA-C	5.22	1.59	1.52
1	lE	145	TYR	C-O	-5.22	1.16	1.23
1	lM	98	GLU	CA-C	5.22	1.58	1.53
1	2c	203	LYS	C-N	5.22	1.41	1.33
1	2H	2	ILE	N-CA	-5.22	1.39	1.46
1	2J	20	LEU	C-O	-5.22	1.18	1.24
1	2P	161	PHE	CA-C	-5.22	1.46	1.52
1	2S	28	GLU	C-O	-5.22	1.18	1.24
1	2X	56	LEU	C-N	5.22	1.40	1.33
1	30	140	LYS	CA-C	5.22	1.59	1.52
1	33	142	VAL	N-CA	5.22	1.52	1.46
1	3k	131	LYS	CA-C	-5.22	1.46	1.52
1	3w	149	SER	N-CA	-5.22	1.40	1.46
1	3W	23	TRP	CA-C	5.22	1.59	1.52
1	44	97	ARG	CA-C	5.22	1.59	1.52
1	48	92	GLU	C-N	-5.22	1.27	1.33
1	4d	194	ALA	CA-C	-5.22	1.46	1.53
1	4k	184	TRP	NE1-CE2	5.22	1.43	1.37
1	4q	56	LEU	C-N	5.22	1.41	1.33
1	4q	135	ILE	C-N	5.22	1.40	1.33
1	4t	133	TRP	NE1-CE2	-5.22	1.31	1.37
1	4v	114	GLN	CA-CB	5.22	1.61	1.53
1	4A	83	LEU	N-CA	-5.22	1.40	1.46
1	59	17	PRO	N-CD	-5.22	1.40	1.47
1	5m	21	ASN	N-CA	-5.22	1.40	1.46
1	5r	23	TRP	C-N	-5.22	1.27	1.33
1	5z	149	SER	CA-C	-5.22	1.46	1.52
1	5D	130	TYR	N-CA	-5.22	1.39	1.46
1	5G	22	ALA	C-N	5.22	1.40	1.33
1	5V	139	ASN	N-CA	-5.22	1.40	1.46
1	62	38	PRO	N-CD	5.22	1.55	1.47
1	6c	49	PRO	C-N	5.22	1.40	1.33
1	6e	152	ASP	C-N	-5.22	1.26	1.33
1	6N	21	ASN	CA-CB	5.22	1.61	1.53
1	6Y	79	GLU	C-N	5.22	1.40	1.33
1	6Z	134	ILE	N-CA	5.22	1.52	1.46
1	7e	159	GLU	CA-C	5.22	1.59	1.52
1	7e	187	GLU	CA-C	5.22	1.59	1.52
1	7p	11	VAL	CA-C	-5.22	1.46	1.52
1	86	172	LEU	C-O	5.22	1.30	1.24
1	8l	79	GLU	CA-C	5.22	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8C	154	ARG	CA-C	5.22	1.59	1.52
1	8T	224	PRO	N-CD	-5.22	1.40	1.47
1	9i	201	ILE	N-CA	5.22	1.52	1.46
1	9i	208	ALA	CA-C	-5.22	1.46	1.53
1	9q	70	LYS	CA-C	5.22	1.59	1.52
1	9P	7	GLN	CA-CB	5.22	1.60	1.52
1	9W	175	GLU	CA-CB	5.22	1.61	1.53
1	a4	3	VAL	CA-C	5.22	1.58	1.52
1	ab	195	ASN	C-N	-5.22	1.27	1.34
1	av	186	THR	CA-CB	5.22	1.61	1.53
1	ay	19	THR	CA-C	5.22	1.59	1.52
1	aC	183	ASN	N-CA	5.22	1.52	1.46
1	aK	45	GLU	N-CA	5.22	1.52	1.46
1	14	11	VAL	C-O	-5.22	1.18	1.24
1	b8	55	MET	CA-C	5.22	1.59	1.52
1	by	78	ALA	CA-C	5.22	1.59	1.52
1	bX	33	SER	C-N	5.22	1.39	1.34
1	1c	46	GLY	C-N	5.22	1.40	1.33
1	cg	208	ALA	N-CA	-5.22	1.39	1.46
1	co	40	PHE	CA-CB	5.22	1.61	1.53
1	cB	92	GLU	C-N	5.22	1.38	1.33
1	cE	227	LYS	CA-C	-5.22	1.46	1.52
1	cK	133	TRP	NE1-CE2	-5.22	1.31	1.37
1	d0	54	THR	C-N	5.22	1.40	1.33
1	d8	181	VAL	N-CA	5.22	1.52	1.46
1	dd	102	SER	N-CA	-5.22	1.39	1.46
1	dh	47	ALA	C-N	5.22	1.41	1.33
1	dm	202	LEU	CA-C	5.22	1.59	1.52
1	dv	111	LEU	CA-C	5.22	1.59	1.52
1	1l	8	GLY	CA-C	-5.22	1.43	1.51
1	dW	24	VAL	N-CA	5.22	1.52	1.46
1	dX	212	GLU	CA-CB	5.22	1.61	1.53
1	dY	85	PRO	CA-CB	5.22	1.60	1.53
1	e3	129	ILE	CA-C	5.22	1.59	1.52
1	eA	25	LYS	C-N	-5.22	1.27	1.33
1	1t	1	PRO	N-CA	5.22	1.54	1.47
1	eV	165	VAL	CA-CB	-5.22	1.48	1.54
1	f3	102	SER	N-CA	-5.22	1.40	1.46
1	fk	217	ALA	N-CA	5.22	1.52	1.46
1	fE	214	MET	N-CA	5.22	1.52	1.46
1	fH	149	SER	CA-CB	5.22	1.60	1.53
1	fN	71	GLU	N-CA	-5.22	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fR	117	TRP	N-CA	-5.22	1.40	1.46
1	1B	139	ASN	CA-C	-5.22	1.46	1.52
1	n	112	GLN	C-N	5.22	1.40	1.33
1	p	12	HIS	N-CA	-5.22	1.39	1.46
1	r	111	LEU	N-CA	5.22	1.52	1.46
1	O	131	LYS	N-CA	-5.22	1.40	1.46
1	O	227	LYS	N-CA	-5.22	1.39	1.46
1	S	221	VAL	CA-CB	-5.22	1.48	1.54
1	gk	162	ARG	N-CA	-5.22	1.39	1.46
1	gG	62	HIS	CA-CB	5.22	1.61	1.53
1	hC	223	GLY	N-CA	5.22	1.51	1.44
1	hE	167	ARG	C-O	-5.22	1.18	1.24
1	1L	122	PRO	CA-CB	5.22	1.63	1.53
1	i4	115	ILE	CA-C	5.22	1.61	1.52
1	jb	152	ASP	CA-C	5.22	1.59	1.52
1	jK	113	GLU	N-CA	5.22	1.52	1.46
1	ko	55	MET	N-CA	-5.22	1.40	1.46
1	kq	62	HIS	CB-CG	5.22	1.57	1.50
1	kO	63	GLN	CA-CB	5.22	1.61	1.53
1	kS	91	ILE	C-N	5.22	1.44	1.33
1	lj	33	SER	CA-C	-5.22	1.47	1.52
1	lw	222	GLY	CA-C	-5.22	1.47	1.52
1	lL	88	ALA	CA-CB	-5.22	1.44	1.53
1	2a	206	GLY	C-N	-5.22	1.27	1.33
1	2z	150	ILE	N-CA	5.22	1.53	1.46
1	2F	213	GLU	C-N	5.22	1.40	1.33
1	3p	41	SER	C-O	-5.22	1.18	1.24
1	3A	42	ALA	CA-C	5.22	1.59	1.52
1	3Z	44	SER	C-N	5.22	1.40	1.33
1	4b	80	TRP	CA-C	5.22	1.59	1.52
1	4G	175	GLU	CA-C	5.22	1.58	1.52
1	55	154	ARG	N-CA	-5.22	1.39	1.45
1	5x	33	SER	N-CA	5.22	1.52	1.45
1	5D	29	GLU	N-CA	-5.22	1.40	1.46
1	6e	212	GLU	N-CA	-5.22	1.40	1.46
1	6Q	114	GLN	CA-C	5.22	1.59	1.52
1	77	35	GLU	CA-CB	-5.22	1.44	1.53
1	7F	206	GLY	C-O	-5.22	1.17	1.24
1	7O	142	VAL	C-N	5.22	1.41	1.33
1	8m	34	PRO	N-CA	-5.22	1.41	1.47
1	8I	177	ALA	CA-C	5.22	1.59	1.52
1	9e	146	SER	N-CA	-5.22	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9r	121	ASN	CA-C	5.22	1.58	1.52
1	9z	108	THR	CA-C	5.22	1.59	1.52
1	a2	7	GLN	CA-C	-5.22	1.46	1.53
1	17	21	ASN	C-N	5.22	1.40	1.33
1	bS	20	LEU	N-CA	-5.22	1.40	1.46
1	bY	120	HIS	CA-CB	5.22	1.62	1.53
1	c6	97	ARG	CD-NE	5.22	1.53	1.46
1	cw	39	MET	CA-C	5.22	1.59	1.52
1	cz	35	GLU	C-N	-5.22	1.27	1.33
1	cz	197	ASP	C-N	5.22	1.40	1.33
1	cL	204	ALA	C-N	5.22	1.40	1.33
1	cR	18	ARG	C-O	-5.22	1.18	1.24
1	d8	180	GLU	CA-CB	5.22	1.61	1.53
1	dm	42	ALA	CA-CB	5.22	1.61	1.53
1	do	80	TRP	NE1-CE2	5.22	1.43	1.37
1	dr	217	ALA	CA-C	5.22	1.60	1.53
1	dv	124	ILE	CA-CB	-5.22	1.47	1.54
1	dO	99	PRO	C-N	5.22	1.40	1.33
1	e7	47	ALA	C-N	5.22	1.41	1.33
1	eL	199	LYS	CA-CB	5.22	1.61	1.53
1	fa	16	SER	CA-CB	5.22	1.61	1.53
1	fw	51	ASP	N-CA	-5.22	1.40	1.46
1	fI	87	HIS	ND1-CE1	5.22	1.37	1.32
1	1B	128	GLU	CA-C	-5.22	1.46	1.52
1	h	5	ASN	C-N	5.22	1.41	1.33
1	g8	88	ALA	CA-C	-5.22	1.46	1.52
1	gd	200	THR	CA-CB	5.22	1.61	1.53
1	gg	37	ILE	C-O	5.22	1.30	1.24
1	gg	205	LEU	CA-C	5.22	1.59	1.52
1	gh	7	GLN	CA-C	5.22	1.59	1.52
1	gp	77	ALA	N-CA	5.22	1.52	1.46
1	gH	132	ARG	CD-NE	5.22	1.53	1.46
1	gL	103	ASP	CA-CB	5.22	1.61	1.53
1	1F	189	LEU	C-N	5.22	1.40	1.33
1	gZ	227	LYS	CA-C	-5.22	1.46	1.52
1	h9	199	LYS	CA-CB	5.22	1.61	1.53
1	hu	124	ILE	N-CA	-5.22	1.41	1.46
1	hv	124	ILE	CA-C	5.22	1.58	1.52
1	hS	77	ALA	CA-C	5.22	1.59	1.52
1	ih	171	THR	C-N	5.22	1.40	1.33
1	iq	14	ALA	CA-C	5.22	1.60	1.53
1	iI	115	ILE	C-N	5.22	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iO	207	PRO	CA-CB	5.22	1.60	1.53
1	iX	19	THR	CA-CB	5.22	1.61	1.53
1	j1	196	PRO	C-N	5.22	1.41	1.33
1	j7	48	THR	CA-CB	5.22	1.60	1.53
1	je	133	TRP	CA-CB	5.22	1.61	1.53
1	jf	89	GLY	CA-C	5.22	1.59	1.51
1	1V	16	SER	CA-CB	5.22	1.61	1.53
1	1W	80	TRP	CA-C	-5.22	1.46	1.52
1	1X	23	TRP	C-N	-5.22	1.27	1.33
1	k1	114	GLN	CA-CB	5.22	1.61	1.53
1	kh	185	MET	CA-CB	5.22	1.61	1.53
1	kv	99	PRO	CA-CB	5.22	1.61	1.53
1	24	12	HIS	ND1-CE1	5.22	1.37	1.32
1	ls	94	GLY	C-N	5.22	1.41	1.33
1	lv	76	GLU	C-N	5.22	1.40	1.33
1	lw	135	ILE	C-N	5.22	1.40	1.33
1	lK	61	GLY	N-CA	5.22	1.51	1.45
1	2a	75	GLU	CA-CB	5.22	1.61	1.53
1	2x	125	PRO	CA-C	5.22	1.58	1.53
1	2A	120	HIS	CA-C	-5.22	1.46	1.53
1	2U	223	GLY	N-CA	5.22	1.51	1.44
1	3g	175	GLU	CA-CB	5.22	1.62	1.53
1	3i	205	LEU	CA-CB	5.22	1.61	1.53
1	3p	69	LEU	CA-CB	5.22	1.61	1.53
1	3u	12	HIS	C-O	5.22	1.30	1.23
1	3E	82	ARG	CD-NE	5.22	1.53	1.46
1	3I	178	SER	N-CA	5.22	1.52	1.46
1	3Z	220	GLY	C-N	5.22	1.39	1.33
1	41	221	VAL	C-N	5.22	1.38	1.33
1	49	31	ALA	CA-C	5.22	1.59	1.52
1	4m	82	ARG	C-O	-5.22	1.17	1.24
1	4G	172	LEU	CA-CB	5.22	1.62	1.53
1	4J	187	GLU	CA-CB	5.22	1.61	1.53
1	4M	230	VAL	CA-C	-5.22	1.46	1.52
1	4O	76	GLU	C-N	5.22	1.40	1.33
1	4V	37	ILE	CA-C	-5.22	1.47	1.52
1	5f	142	VAL	C-N	5.22	1.40	1.33
1	5h	190	LEU	CA-CB	5.22	1.61	1.53
1	5j	15	ILE	CA-C	5.22	1.58	1.52
1	5F	13	GLN	CA-C	-5.22	1.46	1.52
1	6j	199	LYS	N-CA	5.22	1.52	1.46
1	6j	205	LEU	C-N	5.22	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6r	161	PHE	CA-CB	5.22	1.61	1.53
1	6C	129	ILE	C-N	5.22	1.40	1.33
1	6C	219	GLN	N-CA	-5.22	1.39	1.46
1	6H	221	VAL	CA-C	5.22	1.58	1.52
1	6V	23	TRP	C-O	-5.22	1.18	1.24
1	75	156	GLY	CA-C	-5.22	1.44	1.51
1	7H	172	LEU	CA-CB	5.22	1.61	1.53
1	7K	10	MET	N-CA	-5.22	1.39	1.46
1	85	130	TYR	N-CA	-5.22	1.40	1.46
1	8n	201	ILE	N-CA	-5.22	1.40	1.46
1	8o	28	GLU	N-CA	5.22	1.52	1.46
1	8q	24	VAL	CA-C	5.22	1.59	1.52
1	8s	225	GLY	C-N	5.22	1.41	1.33
1	8u	130	TYR	CA-C	-5.22	1.46	1.52
1	8S	127	GLY	C-N	5.22	1.41	1.33
1	96	76	GLU	N-CA	-5.22	1.39	1.46
1	9j	193	ASN	N-CA	5.22	1.52	1.46
1	9s	173	ARG	N-CA	-5.22	1.39	1.46
1	a7	84	HIS	CE1-NE2	5.22	1.37	1.32
1	a8	187	GLU	CA-CB	5.22	1.61	1.53
1	ap	25	LYS	C-O	-5.22	1.18	1.24
1	ay	105	ALA	C-N	5.22	1.38	1.33
1	aA	17	PRO	CA-CB	5.22	1.62	1.53
1	aC	82	ARG	NE-CZ	5.22	1.38	1.33
1	aG	54	THR	C-N	-5.22	1.27	1.33
1	14	200	THR	CA-C	-5.22	1.46	1.52
1	b9	230	VAL	CA-CB	5.22	1.59	1.54
1	bl	132	ARG	CZ-NH2	-5.22	1.26	1.33
1	bl	207	PRO	CA-C	-5.22	1.44	1.52
1	bo	214	MET	CA-C	-5.22	1.46	1.52
1	bv	220	GLY	C-N	5.22	1.40	1.34
1	bV	200	THR	C-N	5.22	1.40	1.33
1	c0	165	VAL	CA-C	-5.22	1.44	1.52
1	c2	91	ILE	CA-C	-5.22	1.46	1.52
1	c8	226	HIS	ND1-CE1	5.22	1.37	1.32
1	ce	49	PRO	C-N	-5.22	1.27	1.33
1	cq	144	MET	CA-CB	5.22	1.60	1.53
1	cA	132	ARG	CA-C	5.22	1.59	1.52
1	cE	40	PHE	CA-C	5.22	1.59	1.52
1	cK	219	GLN	C-N	5.22	1.41	1.33
1	d1	109	SER	N-CA	5.22	1.52	1.45
1	da	120	HIS	ND1-CE1	5.22	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dp	142	VAL	CA-C	5.22	1.60	1.52
1	dP	114	GLN	N-CA	-5.22	1.40	1.46
1	dQ	22	ALA	C-O	-5.22	1.18	1.24
1	dS	69	LEU	N-CA	-5.22	1.40	1.46
1	dV	66	MET	CA-CB	5.22	1.61	1.53
1	ea	5	ASN	N-CA	5.22	1.52	1.45
1	el	86	VAL	N-CA	-5.22	1.40	1.46
1	1q	1	PRO	C-N	-5.22	1.26	1.33
1	eK	76	GLU	CA-CB	5.22	1.61	1.53
1	eT	39	MET	CA-CB	5.22	1.61	1.53
1	f9	70	LYS	C-N	5.22	1.40	1.33
1	fi	99	PRO	N-CD	-5.22	1.40	1.47
1	fo	127	GLY	C-N	5.22	1.40	1.33
1	fs	97	ARG	CZ-NH1	-5.22	1.25	1.32
1	ft	229	ARG	NE-CZ	5.22	1.38	1.33
1	fx	184	TRP	CA-C	5.22	1.59	1.52
1	fA	115	ILE	CA-CB	5.22	1.60	1.54
1	fE	180	GLU	CA-CB	5.22	1.61	1.53
1	fE	190	LEU	CA-CB	5.22	1.61	1.53
1	fK	54	THR	CB-OG1	-5.22	1.35	1.43
1	g5	159	GLU	C-O	5.22	1.28	1.24
1	g6	29	GLU	CA-C	5.22	1.59	1.52
1	1B	21	ASN	N-CA	5.22	1.52	1.46
1	e	226	HIS	CA-CB	5.22	1.60	1.53
1	j	2	ILE	CA-C	-5.22	1.47	1.53
1	w	173	ARG	N-CA	-5.22	1.40	1.46
1	V	219	GLN	N-CA	5.22	1.52	1.46
1	7	154	ARG	CD-NE	5.22	1.53	1.46
1	gl	87	HIS	C-N	5.21	1.40	1.33
1	gs	166	ASP	N-CA	-5.21	1.40	1.46
1	gu	14	ALA	C-N	5.21	1.40	1.33
1	gY	190	LEU	CA-CB	5.21	1.61	1.53
1	h0	163	ASP	N-CA	-5.21	1.40	1.46
1	h4	225	GLY	C-N	5.21	1.40	1.33
1	hc	80	TRP	NE1-CE2	-5.21	1.31	1.37
1	hi	210	THR	C-N	5.21	1.40	1.33
1	ho	40	PHE	C-N	5.21	1.40	1.33
1	1J	176	GLN	CA-CB	5.21	1.61	1.53
1	hr	106	GLY	N-CA	5.21	1.52	1.45
1	hx	87	HIS	ND1-CE1	5.21	1.37	1.32
1	hD	88	ALA	CA-C	5.21	1.59	1.52
1	hE	147	PRO	CA-CB	5.21	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hN	16	SER	CA-C	5.21	1.58	1.52
1	hZ	123	PRO	CA-CB	5.21	1.60	1.53
1	i7	162	ARG	CD-NE	5.21	1.53	1.46
1	i9	207	PRO	CA-C	-5.21	1.44	1.52
1	id	121	ASN	C-N	5.21	1.44	1.34
1	ij	50	GLN	CA-C	5.21	1.59	1.52
1	ip	173	ARG	CD-NE	5.21	1.53	1.46
1	iy	168	PHE	CA-CB	5.21	1.61	1.53
1	iJ	104	ILE	N-CA	-5.21	1.40	1.46
1	iO	40	PHE	CA-CB	5.21	1.61	1.53
1	iR	3	VAL	N-CA	5.21	1.52	1.46
1	iW	109	SER	CA-C	-5.21	1.46	1.52
1	iZ	125	PRO	CA-CB	5.21	1.59	1.53
1	jh	28	GLU	CA-CB	5.21	1.61	1.53
1	ju	69	LEU	C-O	-5.21	1.18	1.24
1	kz	202	LEU	N-CA	-5.21	1.40	1.46
1	kF	4	GLN	CA-CB	5.21	1.61	1.53
1	kU	213	GLU	CA-CB	5.21	1.61	1.53
1	ld	12	HIS	ND1-CE1	5.21	1.37	1.32
1	lh	109	SER	N-CA	-5.21	1.39	1.45
1	lv	54	THR	CA-C	-5.21	1.46	1.52
1	lN	33	SER	CA-C	5.21	1.58	1.52
1	2b	8	GLY	CA-C	-5.21	1.46	1.51
1	2U	16	SER	CA-C	-5.21	1.46	1.53
1	31	67	GLN	N-CA	5.21	1.52	1.46
1	3q	67	GLN	N-CA	5.21	1.52	1.46
1	41	6	LEU	N-CA	5.21	1.53	1.46
1	41	100	ARG	CD-NE	5.21	1.53	1.46
1	4a	161	PHE	C-N	5.21	1.40	1.33
1	4h	152	ASP	CA-CB	5.21	1.62	1.53
1	4B	143	ARG	NE-CZ	5.21	1.38	1.33
1	4L	55	MET	C-N	-5.21	1.26	1.33
1	4Y	212	GLU	CA-CB	5.21	1.61	1.53
1	4Z	4	GLN	N-CA	-5.21	1.39	1.46
1	5c	226	HIS	CB-CG	5.21	1.57	1.50
1	5f	162	ARG	CA-C	5.21	1.59	1.52
1	5f	222	GLY	CA-C	-5.21	1.45	1.51
1	5q	120	HIS	CB-CG	5.21	1.57	1.50
1	5w	42	ALA	CA-C	5.21	1.59	1.52
1	5x	1	PRO	N-CD	5.21	1.55	1.47
1	5B	80	TRP	C-N	5.21	1.40	1.33
1	5O	9	GLN	C-O	5.21	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	64	62	HIS	CG-CD2	5.21	1.41	1.35
1	65	6	LEU	C-N	5.21	1.41	1.33
1	6n	209	ALA	C-N	5.21	1.40	1.33
1	6K	60	GLY	CA-C	-5.21	1.44	1.51
1	7o	196	PRO	N-CA	5.21	1.53	1.47
1	7y	166	ASP	CA-C	5.21	1.59	1.52
1	7O	115	ILE	C-N	5.21	1.40	1.33
1	83	187	GLU	C-N	5.21	1.40	1.33
1	8c	158	LYS	CA-C	-5.21	1.45	1.52
1	8e	132	ARG	CA-C	5.21	1.59	1.52
1	8p	87	HIS	CA-CB	5.21	1.62	1.53
1	8v	11	VAL	N-CA	-5.21	1.40	1.46
1	8A	91	ILE	CA-C	5.21	1.60	1.52
1	8J	81	ASP	CA-CB	5.21	1.61	1.53
1	8Z	213	GLU	C-N	5.21	1.40	1.33
1	9e	54	THR	CA-CB	5.21	1.61	1.53
1	9l	214	MET	CA-C	5.21	1.59	1.52
1	9u	128	GLU	CA-CB	5.21	1.61	1.53
1	ad	48	THR	CA-C	-5.21	1.46	1.53
1	aC	125	PRO	N-CD	5.21	1.55	1.47
1	aT	139	ASN	CA-CB	5.21	1.61	1.53
1	b3	128	GLU	CA-CB	5.21	1.61	1.53
1	bf	133	TRP	CA-CB	5.21	1.61	1.53
1	bs	49	PRO	CA-C	5.21	1.60	1.52
1	bI	184	TRP	C-O	-5.21	1.17	1.24
1	cm	153	ILE	CA-CB	5.21	1.60	1.54
1	cP	58	THR	N-CA	5.21	1.52	1.46
1	dk	182	LYS	CA-C	-5.21	1.46	1.52
1	dY	5	ASN	CA-CB	5.21	1.62	1.53
1	dZ	111	LEU	CA-C	-5.21	1.45	1.52
1	e0	60	GLY	N-CA	5.21	1.51	1.45
1	1o	191	VAL	CA-CB	-5.21	1.47	1.54
1	1o	214	MET	C-O	-5.21	1.17	1.24
1	ek	80	TRP	NE1-CE2	-5.21	1.31	1.37
1	1q	169	TYR	CA-C	5.21	1.59	1.52
1	1r	47	ALA	C-N	5.21	1.40	1.33
1	eG	133	TRP	C-O	-5.21	1.18	1.24
1	eS	153	ILE	CA-C	5.21	1.59	1.52
1	f2	184	TRP	CA-CB	5.21	1.61	1.53
1	f3	75	GLU	C-N	5.21	1.41	1.34
1	1w	62	HIS	CG-ND1	5.21	1.44	1.38
1	fk	31	ALA	CA-CB	5.21	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fl	197	ASP	C-O	-5.21	1.17	1.24
1	fl	204	ALA	CA-CB	5.21	1.61	1.53
1	fx	18	ARG	C-N	5.21	1.41	1.33
1	fC	123	PRO	CA-C	5.21	1.58	1.52
1	fQ	47	ALA	C-O	-5.21	1.17	1.23
1	fX	167	ARG	C-N	5.21	1.40	1.33
1	g0	21	ASN	CA-CB	5.21	1.61	1.53
1	g1	16	SER	C-N	5.21	1.40	1.34
1	a	132	ARG	CZ-NH2	-5.21	1.26	1.33
1	a	229	ARG	C-N	5.21	1.39	1.33
1	h	124	ILE	CA-C	5.21	1.57	1.52
1	o	89	GLY	C-N	-5.21	1.26	1.33
1	A	169	TYR	CA-CB	5.21	1.61	1.53
1	A	189	LEU	CB-CG	5.21	1.63	1.53
1	I	84	HIS	CA-CB	5.21	1.59	1.53
1	Q	188	THR	C-N	5.21	1.40	1.33
1	T	7	GLN	CA-C	5.21	1.59	1.52
1	9	163	ASP	C-N	5.21	1.40	1.33
1	gr	146	SER	CA-CB	5.21	1.61	1.53
1	gD	107	THR	CA-CB	-5.21	1.45	1.53
1	hd	167	ARG	C-N	5.21	1.40	1.33
1	hQ	35	GLU	C-N	5.21	1.40	1.33
1	hT	105	ALA	C-N	5.21	1.40	1.33
1	i8	174	ALA	C-N	5.21	1.40	1.33
1	ig	57	ASN	N-CA	-5.21	1.39	1.46
1	is	201	ILE	C-N	5.21	1.41	1.33
1	iF	43	LEU	CB-CG	5.21	1.63	1.53
1	iU	178	SER	CA-C	-5.21	1.46	1.52
1	iY	124	ILE	CA-C	5.21	1.57	1.53
1	j8	167	ARG	CZ-NH2	-5.21	1.26	1.33
1	jA	219	GLN	CA-C	5.21	1.59	1.52
1	kH	199	LYS	CA-CB	5.21	1.61	1.53
1	kO	157	PRO	CA-CB	-5.21	1.46	1.54
1	la	221	VAL	N-CA	5.21	1.53	1.46
1	lv	155	GLN	CA-C	5.21	1.60	1.52
1	2s	158	LYS	CA-CB	5.21	1.61	1.53
1	3a	181	VAL	CA-C	5.21	1.59	1.52
1	3c	192	GLN	N-CA	-5.21	1.40	1.46
1	3o	140	LYS	N-CA	-5.21	1.40	1.46
1	4t	146	SER	CA-C	-5.21	1.46	1.52
1	4K	68	MET	CA-CB	5.21	1.61	1.53
1	5f	41	SER	N-CA	5.21	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5H	204	ALA	CA-CB	5.21	1.61	1.53
1	5J	102	SER	CA-C	-5.21	1.45	1.52
1	5P	214	MET	C-O	-5.21	1.18	1.24
1	5Q	21	ASN	CA-CB	5.21	1.61	1.53
1	6B	181	VAL	CA-CB	-5.21	1.48	1.54
1	6S	75	GLU	N-CA	5.21	1.52	1.46
1	72	53	ASN	CA-C	5.21	1.59	1.52
1	77	37	ILE	N-CA	5.21	1.53	1.46
1	7s	127	GLY	C-O	5.21	1.30	1.23
1	7A	79	GLU	C-N	5.21	1.41	1.33
1	99	12	HIS	CA-C	5.21	1.58	1.52
1	9n	165	VAL	C-N	5.21	1.41	1.33
1	9n	167	ARG	CA-C	5.21	1.59	1.52
1	9w	10	MET	CA-CB	5.21	1.61	1.53
1	9D	172	LEU	N-CA	5.21	1.53	1.46
1	9M	53	ASN	C-N	5.21	1.40	1.33
1	9N	120	HIS	C-N	5.21	1.39	1.33
1	9X	201	ILE	C-N	5.21	1.40	1.33
1	a3	72	THR	C-N	5.21	1.40	1.33
1	a4	162	ARG	CD-NE	5.21	1.53	1.46
1	ar	164	TYR	CA-C	-5.21	1.46	1.52
1	as	67	GLN	CA-CB	5.21	1.61	1.53
1	aM	30	LYS	CA-C	-5.21	1.45	1.52
1	aU	133	TRP	N-CA	5.21	1.52	1.46
1	aY	229	ARG	N-CA	-5.21	1.39	1.46
1	c3	184	TRP	CZ2-CH2	5.21	1.47	1.37
1	ce	74	ASN	CA-CB	5.21	1.61	1.53
1	cl	185	MET	CA-CB	5.21	1.61	1.53
1	ct	92	GLU	CA-C	5.21	1.59	1.53
1	d4	74	ASN	N-CA	-5.21	1.40	1.46
1	dL	11	VAL	CA-CB	-5.21	1.47	1.54
1	eA	59	VAL	CA-C	5.21	1.58	1.52
1	f5	146	SER	C-N	-5.21	1.29	1.33
1	fa	57	ASN	C-N	5.21	1.41	1.33
1	fh	195	ASN	CA-C	5.21	1.59	1.52
1	fs	215	MET	N-CA	-5.21	1.39	1.46
1	fE	129	ILE	CA-C	-5.21	1.46	1.52
1	a	166	ASP	CA-CB	5.21	1.61	1.53
1	gx	102	SER	CA-C	5.21	1.59	1.52
1	gM	161	PHE	N-CA	5.21	1.52	1.46
1	gS	37	ILE	N-CA	5.21	1.53	1.46
1	gT	103	ASP	C-N	5.21	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hj	120	HIS	ND1-CE1	5.21	1.37	1.32
1	hs	128	GLU	CA-CB	5.21	1.61	1.53
1	hw	35	GLU	C-N	-5.21	1.27	1.33
1	hU	138	LEU	C-N	5.21	1.40	1.33
1	i5	32	PHE	C-N	5.21	1.39	1.32
1	iw	4	GLN	CA-CB	5.21	1.62	1.53
1	iz	152	ASP	N-CA	-5.21	1.39	1.46
1	iC	215	MET	CA-CB	5.21	1.61	1.53
1	iI	137	GLY	N-CA	5.21	1.52	1.45
1	iI	229	ARG	CA-CB	5.21	1.61	1.53
1	iY	12	HIS	ND1-CE1	5.21	1.37	1.32
1	j8	131	LYS	N-CA	-5.21	1.40	1.46
1	j8	211	LEU	CA-C	5.21	1.59	1.52
1	1U	136	LEU	CA-CB	5.21	1.61	1.53
1	jC	106	GLY	CA-C	5.21	1.58	1.51
1	jD	105	ALA	N-CA	-5.21	1.39	1.46
1	jP	38	PRO	CA-C	-5.21	1.44	1.52
1	jQ	111	LEU	C-O	-5.21	1.18	1.24
1	jV	51	ASP	C-N	5.21	1.41	1.34
1	jV	167	ARG	C-O	-5.21	1.18	1.24
1	kE	104	ILE	C-O	-5.21	1.17	1.24
1	lh	23	TRP	CA-CB	5.21	1.61	1.53
1	lr	22	ALA	CA-CB	5.21	1.61	1.53
1	lJ	227	LYS	CA-C	5.21	1.59	1.53
1	2D	37	ILE	CA-CB	-5.21	1.47	1.54
1	2G	61	GLY	N-CA	5.21	1.51	1.45
1	2G	128	GLU	CA-C	5.21	1.59	1.52
1	2Y	163	ASP	CA-C	-5.21	1.45	1.52
1	3j	113	GLU	N-CA	-5.21	1.40	1.46
1	3w	203	LYS	N-CA	5.21	1.53	1.46
1	3I	166	ASP	CA-CB	5.21	1.61	1.53
1	3L	176	GLN	CA-CB	5.21	1.61	1.53
1	3M	62	HIS	C-O	-5.21	1.17	1.23
1	40	136	LEU	N-CA	5.21	1.52	1.46
1	4b	66	MET	CA-CB	5.21	1.61	1.53
1	4b	99	PRO	CA-CB	5.21	1.61	1.53
1	4n	11	VAL	C-O	-5.21	1.18	1.24
1	4A	168	PHE	C-N	5.21	1.40	1.33
1	4D	32	PHE	CA-C	-5.21	1.45	1.52
1	4L	38	PRO	C-N	5.21	1.41	1.33
1	4P	120	HIS	C-N	5.21	1.40	1.33
1	54	63	GLN	CA-CB	5.21	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	55	209	ALA	CA-CB	-5.21	1.45	1.53
1	59	143	ARG	CD-NE	5.21	1.53	1.46
1	5g	184	TRP	N-CA	-5.21	1.40	1.46
1	5k	185	MET	CA-C	-5.21	1.46	1.52
1	5K	143	ARG	C-O	5.21	1.30	1.24
1	61	71	GLU	C-N	5.21	1.40	1.33
1	63	202	LEU	CA-CB	5.21	1.61	1.53
1	6f	23	TRP	NE1-CE2	-5.21	1.31	1.37
1	6i	95	GLN	CA-CB	5.21	1.60	1.53
1	6o	180	GLU	C-O	-5.21	1.18	1.24
1	6w	62	HIS	CB-CG	5.21	1.57	1.50
1	6N	112	GLN	CA-C	5.21	1.59	1.52
1	6T	98	GLU	CA-CB	5.21	1.61	1.53
1	6V	150	ILE	CA-CB	5.21	1.62	1.54
1	74	200	THR	N-CA	5.21	1.52	1.46
1	7m	148	THR	CA-CB	5.21	1.62	1.53
1	7u	150	ILE	CA-C	5.21	1.59	1.52
1	7v	175	GLU	CA-CB	5.21	1.62	1.53
1	7w	224	PRO	CA-C	-5.21	1.46	1.52
1	7y	162	ARG	N-CA	5.21	1.52	1.46
1	7O	82	ARG	CA-C	5.21	1.59	1.52
1	7U	92	GLU	CA-CB	5.21	1.61	1.53
1	83	131	LYS	N-CA	5.21	1.52	1.46
1	8G	100	ARG	C-N	5.21	1.40	1.33
1	8H	115	ILE	CA-CB	5.21	1.60	1.54
1	8M	69	LEU	C-N	5.21	1.40	1.33
1	8W	56	LEU	CA-C	5.21	1.59	1.52
1	8X	103	ASP	C-N	5.21	1.40	1.33
1	9e	224	PRO	N-CA	5.21	1.53	1.47
1	9j	82	ARG	CA-C	5.21	1.59	1.52
1	9H	149	SER	C-N	5.21	1.40	1.33
1	9X	59	VAL	N-CA	-5.21	1.40	1.46
1	a6	87	HIS	CG-CD2	5.21	1.41	1.35
1	a8	92	GLU	CA-C	5.21	1.59	1.53
1	a9	50	GLN	C-N	5.21	1.40	1.33
1	a9	108	THR	CA-CB	5.21	1.61	1.53
1	af	175	GLU	C-N	5.21	1.40	1.33
1	ah	22	ALA	N-CA	-5.21	1.40	1.46
1	al	139	ASN	CA-CB	5.21	1.61	1.53
1	am	154	ARG	CD-NE	5.21	1.53	1.46
1	as	86	VAL	C-N	5.21	1.40	1.33
1	14	161	PHE	CA-C	-5.21	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aV	197	ASP	N-CA	5.21	1.52	1.46
1	b9	29	GLU	C-O	5.21	1.30	1.24
1	bd	22	ALA	N-CA	5.21	1.52	1.46
1	bk	128	GLU	C-N	5.21	1.40	1.33
1	br	180	GLU	CA-C	5.21	1.59	1.52
1	bt	7	GLN	N-CA	-5.21	1.39	1.46
1	bu	68	MET	CA-C	5.21	1.59	1.52
1	bF	218	CYS	CA-C	-5.21	1.45	1.52
1	1a	152	ASP	CA-CB	5.21	1.62	1.53
1	bO	27	VAL	CA-CB	-5.21	1.47	1.54
1	bR	92	GLU	C-O	-5.21	1.16	1.23
1	bT	36	VAL	N-CA	5.21	1.52	1.46
1	ch	51	ASP	CA-CB	5.21	1.61	1.53
1	ci	173	ARG	CD-NE	5.21	1.53	1.46
1	cV	120	HIS	CE1-NE2	-5.21	1.27	1.32
1	dE	85	PRO	CA-C	5.21	1.58	1.52
1	dG	130	TYR	CA-CB	5.21	1.61	1.53
1	dM	35	GLU	CA-C	5.21	1.60	1.52
1	dT	115	ILE	CA-CB	-5.21	1.47	1.54
1	dU	12	HIS	ND1-CE1	5.21	1.37	1.32
1	dW	205	LEU	C-O	-5.21	1.17	1.24
1	e7	113	GLU	CA-CB	5.21	1.61	1.53
1	ee	108	THR	CA-CB	5.21	1.61	1.53
1	er	55	MET	CA-C	5.21	1.59	1.52
1	es	83	LEU	CA-C	5.21	1.59	1.52
1	et	118	MET	N-CA	5.21	1.52	1.46
1	eJ	118	MET	CA-C	-5.21	1.45	1.52
1	eL	132	ARG	CA-C	-5.21	1.46	1.52
1	eM	156	GLY	N-CA	5.21	1.51	1.44
1	f8	77	ALA	CA-C	-5.21	1.46	1.52
1	1w	138	LEU	CA-CB	5.21	1.61	1.53
1	fL	17	PRO	CA-CB	5.21	1.61	1.53
1	fM	63	GLN	C-N	5.21	1.41	1.34
1	fO	125	PRO	CA-CB	5.21	1.59	1.53
1	fS	144	MET	N-CA	-5.21	1.39	1.46
1	fT	185	MET	CA-C	5.21	1.59	1.52
1	g1	50	GLN	C-O	-5.21	1.18	1.24
1	d	24	VAL	CA-CB	-5.21	1.48	1.54
1	l	221	VAL	CA-C	5.21	1.59	1.52
1	A	205	LEU	CA-CB	5.21	1.61	1.53
1	K	27	VAL	C-N	5.21	1.40	1.33
1	V	23	TRP	CA-C	5.21	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	X	85	PRO	CA-C	5.21	1.57	1.52
1	hK	104	ILE	CA-CB	5.21	1.62	1.54
1	hR	16	SER	CA-CB	5.21	1.63	1.53
1	hX	53	ASN	CA-CB	5.21	1.61	1.53
1	ig	106	GLY	N-CA	5.21	1.52	1.45
1	in	148	THR	N-CA	-5.21	1.39	1.46
1	iA	191	VAL	CA-CB	-5.21	1.47	1.54
1	iF	62	HIS	CB-CG	5.21	1.57	1.50
1	ja	167	ARG	CZ-NH2	-5.21	1.26	1.33
1	je	14	ALA	CA-C	5.21	1.59	1.52
1	jK	216	THR	CA-CB	5.21	1.60	1.53
1	jT	133	TRP	CA-CB	5.21	1.61	1.53
1	jV	185	MET	CA-C	5.21	1.59	1.52
1	k4	45	GLU	C-N	5.21	1.39	1.33
1	ka	132	ARG	CZ-NH2	-5.21	1.26	1.33
1	kb	18	ARG	CZ-NH1	-5.21	1.25	1.32
1	kh	96	MET	CA-CB	5.21	1.61	1.54
1	ll	202	LEU	CA-C	5.21	1.59	1.52
1	lP	8	GLY	C-O	-5.21	1.20	1.23
1	2p	115	ILE	C-N	5.21	1.40	1.33
1	2S	73	ILE	C-N	5.21	1.40	1.33
1	3f	128	GLU	C-O	5.21	1.30	1.24
1	3n	115	ILE	C-N	5.21	1.39	1.33
1	48	210	THR	N-CA	5.21	1.52	1.45
1	4b	173	ARG	CD-NE	5.21	1.53	1.46
1	4r	93	PRO	C-O	-5.21	1.17	1.24
1	4s	4	GLN	C-O	-5.21	1.17	1.24
1	4B	176	GLN	CA-C	-5.21	1.45	1.52
1	4L	188	THR	CA-C	5.21	1.59	1.52
1	4Q	184	TRP	CA-CB	5.21	1.61	1.53
1	4V	81	ASP	C-N	5.21	1.40	1.33
1	5h	25	LYS	N-CA	5.21	1.52	1.46
1	5p	51	ASP	CA-CB	5.21	1.61	1.53
1	66	104	ILE	CA-CB	5.21	1.60	1.54
1	67	18	ARG	N-CA	-5.21	1.40	1.46
1	6W	80	TRP	CA-C	5.21	1.59	1.52
1	7j	25	LYS	CA-C	5.21	1.59	1.52
1	7A	15	ILE	CA-CB	-5.21	1.49	1.54
1	7V	128	GLU	CA-CB	5.21	1.61	1.53
1	8x	15	ILE	CA-C	5.21	1.58	1.52
1	8Y	179	GLN	CA-CB	5.21	1.61	1.53
1	96	145	TYR	CA-CB	-5.21	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9e	145	TYR	CA-C	5.21	1.60	1.52
1	9n	183	ASN	N-CA	-5.21	1.40	1.46
1	9t	11	VAL	N-CA	5.21	1.53	1.46
1	9u	181	VAL	C-N	5.21	1.40	1.33
1	9F	193	ASN	N-CA	5.21	1.52	1.46
1	9P	207	PRO	N-CA	5.21	1.53	1.47
1	a3	18	ARG	CD-NE	5.21	1.53	1.46
1	ad	129	ILE	CA-CB	5.21	1.60	1.54
1	aN	12	HIS	C-N	-5.21	1.25	1.33
1	bF	33	SER	CA-CB	5.21	1.61	1.54
1	bW	62	HIS	CE1-NE2	5.21	1.37	1.32
1	bW	127	GLY	CA-C	-5.21	1.46	1.52
1	c2	143	ARG	CZ-NH2	-5.21	1.26	1.33
1	cE	3	VAL	C-N	5.21	1.40	1.33
1	cW	42	ALA	CA-C	-5.21	1.46	1.52
1	db	40	PHE	C-N	5.21	1.41	1.33
1	de	104	ILE	N-CA	5.21	1.52	1.46
1	dj	117	TRP	NE1-CE2	-5.21	1.31	1.37
1	dr	78	ALA	N-CA	-5.21	1.40	1.46
1	1n	29	GLU	CA-CB	5.21	1.61	1.53
1	eB	79	GLU	N-CA	5.21	1.52	1.46
1	eC	123	PRO	C-N	5.21	1.37	1.33
1	eM	66	MET	N-CA	5.21	1.52	1.46
1	fj	53	ASN	CA-C	-5.21	1.46	1.52
1	fz	203	LYS	N-CA	-5.21	1.40	1.46
1	1y	23	TRP	C-N	5.21	1.40	1.33
1	2	92	GLU	CA-C	5.21	1.58	1.52
1	ga	84	HIS	ND1-CE1	5.21	1.37	1.32
1	gl	68	MET	CA-CB	5.21	1.61	1.53
1	gG	29	GLU	CA-CB	5.21	1.61	1.54
1	gL	137	GLY	CA-C	-5.21	1.46	1.52
1	gZ	201	ILE	CA-C	5.21	1.61	1.52
1	1K	84	HIS	CA-C	5.21	1.59	1.52
1	hZ	7	GLN	CA-C	5.21	1.60	1.53
1	i3	47	ALA	C-O	-5.21	1.17	1.23
1	i7	141	ILE	N-CA	-5.21	1.40	1.46
1	io	55	MET	C-N	5.21	1.40	1.33
1	iB	123	PRO	CA-CB	5.21	1.61	1.53
1	iG	127	GLY	N-CA	5.21	1.52	1.45
1	j4	147	PRO	N-CD	5.21	1.55	1.47
1	j4	178	SER	CA-C	5.21	1.59	1.52
1	j9	63	GLN	CA-C	5.21	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1U	144	MET	N-CA	-5.21	1.40	1.46
1	jc	12	HIS	CA-C	-5.21	1.46	1.52
1	1V	12	HIS	CG-CD2	5.21	1.41	1.35
1	jN	210	THR	C-N	5.21	1.41	1.34
1	jO	106	GLY	CA-C	-5.21	1.43	1.51
1	k6	182	LYS	N-CA	-5.21	1.40	1.46
1	kh	152	ASP	C-N	5.21	1.40	1.33
1	ko	199	LYS	CA-C	5.21	1.59	1.52
1	kR	143	ARG	NE-CZ	5.21	1.38	1.33
1	l0	46	GLY	N-CA	-5.21	1.37	1.45
1	l0	84	HIS	CA-CB	5.21	1.60	1.53
1	l0	129	ILE	CA-CB	-5.21	1.47	1.54
1	l3	107	THR	CB-OG1	-5.21	1.35	1.43
1	lH	166	ASP	CA-CB	5.21	1.61	1.53
1	lK	169	TYR	N-CA	5.21	1.52	1.46
1	2w	100	ARG	CD-NE	5.21	1.53	1.46
1	2C	4	GLN	CA-CB	5.21	1.62	1.53
1	2F	72	THR	CA-CB	5.21	1.61	1.53
1	2R	93	PRO	C-N	5.21	1.40	1.33
1	2R	136	LEU	CA-C	-5.21	1.46	1.52
1	30	164	TYR	N-CA	-5.21	1.40	1.46
1	3m	41	SER	CA-C	5.21	1.59	1.52
1	3v	5	ASN	C-O	-5.21	1.17	1.24
1	3Q	134	ILE	CA-CB	-5.21	1.47	1.54
1	3Q	185	MET	N-CA	-5.21	1.40	1.46
1	5g	38	PRO	N-CD	-5.21	1.40	1.47
1	5j	70	LYS	N-CA	5.21	1.52	1.46
1	61	128	GLU	C-N	5.21	1.40	1.33
1	6d	2	ILE	N-CA	-5.21	1.40	1.46
1	6p	225	GLY	CA-C	-5.21	1.46	1.52
1	6q	50	GLN	CA-CB	5.21	1.61	1.53
1	6z	51	ASP	C-O	-5.21	1.18	1.24
1	6N	74	ASN	CA-CB	5.21	1.61	1.53
1	7d	31	ALA	C-N	5.21	1.40	1.33
1	7g	63	GLN	C-N	5.21	1.40	1.33
1	7s	230	VAL	CA-C	-5.21	1.46	1.52
1	7w	15	ILE	CA-CB	-5.21	1.49	1.54
1	8b	131	LYS	C-N	5.21	1.40	1.33
1	8c	20	LEU	C-N	5.21	1.40	1.33
1	8u	162	ARG	CD-NE	5.21	1.53	1.46
1	8w	99	PRO	CA-C	-5.21	1.46	1.52
1	8G	31	ALA	C-N	5.21	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	94	187	GLU	C-N	5.21	1.41	1.33
1	9h	134	ILE	CA-CB	5.21	1.60	1.54
1	9r	68	MET	C-N	5.21	1.40	1.33
1	9s	41	SER	C-O	-5.21	1.17	1.24
1	9A	126	VAL	CA-CB	5.21	1.60	1.54
1	9I	165	VAL	CA-C	-5.21	1.46	1.52
1	9W	229	ARG	CD-NE	5.21	1.53	1.46
1	ag	145	TYR	CA-C	-5.21	1.45	1.52
1	ak	50	GLN	CA-CB	5.21	1.61	1.53
1	al	166	ASP	CA-CB	5.21	1.61	1.53
1	aA	43	LEU	CA-C	5.21	1.59	1.52
1	aS	67	GLN	CA-CB	5.21	1.61	1.53
1	aS	124	ILE	CA-CB	5.21	1.59	1.53
1	b4	173	ARG	CA-CB	5.21	1.62	1.53
1	bh	51	ASP	C-N	5.21	1.41	1.33
1	bt	80	TRP	CA-C	5.21	1.59	1.52
1	bT	168	PHE	CA-CB	5.21	1.61	1.53
1	c4	158	LYS	CA-CB	5.21	1.60	1.53
1	cf	62	HIS	ND1-CE1	5.21	1.37	1.32
1	cR	71	GLU	CA-CB	5.21	1.61	1.53
1	cU	124	ILE	CA-C	5.21	1.57	1.53
1	cW	17	PRO	CA-CB	-5.21	1.46	1.53
1	1i	97	ARG	N-CA	-5.21	1.40	1.46
1	d9	230	VAL	CA-CB	-5.21	1.49	1.54
1	dr	151	LEU	CA-CB	5.21	1.61	1.53
1	du	69	LEU	CA-CB	5.21	1.61	1.53
1	dL	82	ARG	CD-NE	5.21	1.53	1.46
1	dY	52	LEU	N-CA	-5.21	1.40	1.46
1	ei	18	ARG	CA-CB	5.21	1.61	1.53
1	eA	193	ASN	CA-CB	5.21	1.62	1.53
1	eK	7	GLN	CA-CB	5.21	1.61	1.53
1	eZ	215	MET	CA-CB	5.21	1.62	1.53
1	f8	3	VAL	C-N	5.21	1.40	1.33
1	fx	120	HIS	CB-CG	5.21	1.57	1.50
1	fy	163	ASP	CA-CB	5.21	1.61	1.53
1	fK	116	GLY	N-CA	-5.21	1.39	1.45
1	h	59	VAL	C-N	5.21	1.41	1.33
1	u	58	THR	N-CA	5.21	1.52	1.46
1	w	12	HIS	CE1-NE2	-5.21	1.27	1.32
1	L	101	GLY	C-N	-5.21	1.26	1.34
1	L	142	VAL	CA-CB	5.21	1.61	1.54
1	T	137	GLY	N-CA	5.21	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gr	153	ILE	CA-CB	-5.21	1.47	1.54
1	gK	143	ARG	CA-C	-5.21	1.45	1.52
1	h2	123	PRO	C-O	-5.21	1.17	1.23
1	he	91	ILE	CA-C	5.21	1.59	1.52
1	hj	48	THR	CA-C	5.21	1.59	1.52
1	hr	77	ALA	N-CA	-5.21	1.40	1.46
1	hr	179	GLN	N-CA	-5.21	1.40	1.46
1	hw	23	TRP	N-CA	-5.21	1.39	1.46
1	hR	69	LEU	CA-CB	5.21	1.61	1.53
1	ij	162	ARG	C-N	5.21	1.40	1.33
1	il	228	ALA	CA-CB	-5.21	1.46	1.53
1	iz	53	ASN	CA-C	-5.21	1.45	1.52
1	iG	64	ALA	N-CA	-5.21	1.40	1.46
1	1R	179	GLN	N-CA	5.21	1.52	1.46
1	iL	136	LEU	C-O	5.21	1.30	1.24
1	je	174	ALA	CA-C	-5.21	1.46	1.52
1	jo	10	MET	C-O	5.21	1.30	1.23
1	jz	15	ILE	CA-C	5.21	1.59	1.52
1	jB	200	THR	C-N	5.21	1.40	1.33
1	jT	160	PRO	C-N	5.21	1.40	1.33
1	jV	36	VAL	CA-C	-5.21	1.46	1.52
1	kp	85	PRO	C-O	5.21	1.30	1.24
1	kA	141	ILE	CA-C	5.21	1.59	1.52
1	kA	193	ASN	CA-CB	5.21	1.60	1.53
1	l1	48	THR	CA-C	-5.21	1.46	1.53
1	l7	87	HIS	CB-CG	5.21	1.57	1.50
1	26	55	MET	C-N	5.21	1.40	1.33
1	la	1	PRO	N-CD	5.21	1.55	1.47
1	lu	49	PRO	CA-C	5.21	1.59	1.52
1	29	34	PRO	C-N	5.21	1.41	1.33
1	lM	204	ALA	CA-CB	5.21	1.61	1.53
1	2H	129	ILE	CA-CB	-5.21	1.48	1.54
1	2M	229	ARG	CD-NE	5.21	1.53	1.46
1	31	25	LYS	CA-C	5.21	1.59	1.52
1	33	218	CYS	CA-CB	5.21	1.62	1.53
1	3e	54	THR	CA-CB	-5.21	1.45	1.53
1	3F	128	GLU	CA-C	5.21	1.59	1.52
1	3S	117	TRP	CA-C	5.21	1.59	1.52
1	3U	197	ASP	CA-CB	5.21	1.61	1.53
1	3W	98	GLU	CA-C	5.21	1.59	1.53
1	40	183	ASN	CA-CB	5.21	1.61	1.53
1	41	120	HIS	ND1-CE1	5.21	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	46	70	LYS	CA-CB	5.21	1.61	1.53
1	4i	26	VAL	N-CA	-5.21	1.40	1.46
1	4z	188	THR	CA-CB	-5.21	1.46	1.53
1	4S	32	PHE	CA-CB	5.21	1.59	1.52
1	5b	104	ILE	CA-C	5.21	1.59	1.52
1	5t	135	ILE	N-CA	5.21	1.52	1.46
1	5z	24	VAL	C-N	5.21	1.40	1.33
1	5G	216	THR	CA-C	5.21	1.59	1.52
1	5N	189	LEU	C-N	5.21	1.40	1.33
1	5O	26	VAL	CA-C	5.21	1.59	1.52
1	5T	192	GLN	N-CA	5.21	1.53	1.46
1	63	21	ASN	CA-CB	5.21	1.61	1.53
1	6g	187	GLU	CA-C	-5.21	1.46	1.52
1	6h	176	GLN	C-N	5.21	1.40	1.33
1	6u	92	GLU	C-N	-5.21	1.26	1.33
1	6B	10	MET	CA-C	5.21	1.59	1.52
1	70	77	ALA	C-N	5.21	1.40	1.33
1	7v	204	ALA	CA-C	5.21	1.59	1.52
1	7w	197	ASP	CA-C	5.21	1.59	1.52
1	7I	37	ILE	CA-C	5.21	1.57	1.52
1	7K	203	LYS	CA-CB	5.21	1.61	1.53
1	7L	53	ASN	CA-CB	5.21	1.61	1.53
1	7M	2	ILE	C-N	5.21	1.39	1.33
1	7R	228	ALA	N-CA	-5.21	1.39	1.46
1	8t	10	MET	CA-C	5.21	1.59	1.52
1	8J	166	ASP	C-N	5.21	1.41	1.33
1	8Y	160	PRO	N-CD	5.21	1.55	1.47
1	9q	74	ASN	CA-CB	5.21	1.61	1.53
1	9W	189	LEU	CA-C	-5.21	1.45	1.52
1	9Z	60	GLY	C-N	5.21	1.40	1.33
1	a4	132	ARG	N-CA	-5.21	1.40	1.46
1	a8	76	GLU	C-N	5.21	1.40	1.33
1	ac	87	HIS	CE1-NE2	5.21	1.37	1.32
1	11	77	ALA	CA-C	5.21	1.59	1.52
1	az	166	ASP	CA-CB	5.21	1.61	1.53
1	aC	223	GLY	N-CA	5.21	1.51	1.44
1	aM	54	THR	CA-C	-5.21	1.46	1.52
1	aS	134	ILE	CA-C	5.21	1.59	1.52
1	aU	103	ASP	C-N	5.21	1.40	1.33
1	b3	46	GLY	C-N	5.21	1.40	1.33
1	b6	18	ARG	CA-CB	5.21	1.61	1.53
1	bc	77	ALA	CA-CB	5.21	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bh	120	HIS	CE1-NE2	5.21	1.37	1.32
1	bQ	199	LYS	CA-CB	5.21	1.61	1.53
1	c1	39	MET	N-CA	-5.21	1.40	1.46
1	cf	198	CYS	CA-CB	5.21	1.61	1.53
1	ct	126	VAL	N-CA	5.21	1.52	1.46
1	cC	198	CYS	CA-CB	5.21	1.61	1.53
1	cD	28	GLU	C-O	-5.21	1.18	1.24
1	cV	113	GLU	C-O	5.21	1.30	1.24
1	cW	66	MET	CA-CB	5.21	1.61	1.53
1	dh	83	LEU	C-O	5.21	1.30	1.24
1	dj	195	ASN	CA-CB	5.21	1.60	1.53
1	dL	47	ALA	N-CA	-5.21	1.39	1.46
1	dX	128	GLU	N-CA	-5.21	1.40	1.46
1	1o	184	TRP	NE1-CE2	-5.21	1.31	1.37
1	eb	36	VAL	CA-CB	-5.21	1.48	1.54
1	eq	114	GLN	CA-C	5.21	1.59	1.52
1	ew	121	ASN	CA-C	-5.21	1.46	1.52
1	1z	62	HIS	CE1-NE2	5.21	1.37	1.32
1	1z	150	ILE	CA-C	5.21	1.59	1.52
1	fQ	81	ASP	C-N	5.21	1.41	1.33
1	d	176	GLN	CA-CB	5.21	1.62	1.53
1	o	224	PRO	C-N	5.21	1.41	1.33
1	w	155	GLN	CA-C	-5.21	1.45	1.52
1	D	6	LEU	CA-C	-5.21	1.47	1.52
1	M	87	HIS	CG-ND1	-5.21	1.32	1.38
1	Q	37	ILE	CA-C	5.21	1.57	1.52
1	R	159	GLU	C-N	5.21	1.39	1.33
1	ga	62	HIS	CG-ND1	5.21	1.44	1.38
1	gg	12	HIS	ND1-CE1	5.21	1.37	1.32
1	gv	136	LEU	CA-CB	5.21	1.61	1.53
1	gJ	141	ILE	CA-C	5.21	1.60	1.52
1	hc	207	PRO	C-O	-5.21	1.18	1.24
1	hv	152	ASP	C-O	-5.21	1.17	1.24
1	hy	220	GLY	C-N	5.21	1.40	1.33
1	hI	12	HIS	CG-CD2	5.21	1.41	1.35
1	hU	210	THR	C-N	5.21	1.40	1.33
1	i0	167	ARG	CA-C	-5.21	1.45	1.52
1	id	97	ARG	CA-C	5.21	1.59	1.52
1	ii	217	ALA	C-N	5.21	1.41	1.33
1	j7	183	ASN	CA-C	5.21	1.59	1.52
1	k8	226	HIS	CG-ND1	-5.21	1.32	1.38
1	kz	226	HIS	CB-CG	5.21	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ll	229	ARG	C-N	5.21	1.40	1.33
1	28	163	ASP	CA-C	5.21	1.59	1.52
1	2e	71	GLU	CA-CB	5.21	1.62	1.53
1	2B	189	LEU	N-CA	-5.21	1.40	1.46
1	3t	29	GLU	C-N	5.21	1.41	1.33
1	3H	160	PRO	N-CD	-5.21	1.40	1.47
1	4s	43	LEU	C-O	-5.21	1.17	1.24
1	4H	149	SER	CA-C	-5.21	1.46	1.53
1	4N	117	TRP	N-CA	-5.21	1.40	1.46
1	4P	214	MET	CA-CB	5.21	1.61	1.53
1	51	113	GLU	C-N	5.21	1.41	1.33
1	5e	191	VAL	N-CA	-5.21	1.40	1.46
1	5j	161	PHE	C-N	5.21	1.40	1.33
1	5l	183	ASN	CA-CB	5.21	1.61	1.53
1	5m	165	VAL	CA-CB	5.21	1.61	1.54
1	5H	120	HIS	ND1-CE1	5.21	1.37	1.32
1	5K	153	ILE	C-N	-5.21	1.27	1.33
1	69	90	PRO	CA-C	-5.21	1.47	1.52
1	6h	4	GLN	CA-C	5.21	1.58	1.52
1	6N	118	MET	N-CA	-5.21	1.39	1.46
1	6T	57	ASN	CA-CB	5.21	1.61	1.53
1	7O	43	LEU	CA-CB	5.21	1.61	1.53
1	8S	141	ILE	CA-CB	5.21	1.60	1.54
1	aq	62	HIS	CB-CG	5.21	1.57	1.50
1	aF	214	MET	CA-C	5.21	1.59	1.52
1	bd	34	PRO	N-CD	-5.21	1.40	1.47
1	bw	44	SER	N-CA	-5.21	1.40	1.46
1	bI	127	GLY	CA-C	5.21	1.58	1.51
1	1f	145	TYR	CA-CB	5.21	1.62	1.53
1	d2	47	ALA	N-CA	5.21	1.52	1.46
1	de	37	ILE	CA-C	-5.21	1.47	1.52
1	df	90	PRO	N-CA	-5.21	1.40	1.47
1	es	5	ASN	C-O	5.21	1.29	1.24
1	eB	164	TYR	N-CA	-5.21	1.40	1.46
1	1x	36	VAL	CA-C	5.21	1.59	1.52
1	fI	87	HIS	CD2-NE2	5.21	1.43	1.37
1	fN	162	ARG	NE-CZ	-5.21	1.27	1.33
1	3	134	ILE	CA-CB	-5.21	1.48	1.54
1	N	180	GLU	C-N	5.21	1.40	1.33
1	T	114	GLN	CA-CB	5.21	1.61	1.53
1	T	189	LEU	N-CA	-5.21	1.40	1.46
1	X	44	SER	CA-C	-5.21	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ha	117	TRP	CA-CB	5.20	1.61	1.53
1	hX	75	GLU	CA-C	5.20	1.59	1.52
1	i3	227	LYS	CA-CB	5.20	1.61	1.53
1	i9	108	THR	CA-C	5.20	1.59	1.52
1	ip	127	GLY	CA-C	-5.20	1.44	1.51
1	is	82	ARG	CA-CB	5.20	1.61	1.53
1	1Q	163	ASP	CA-C	-5.20	1.45	1.52
1	iY	126	VAL	CA-CB	5.20	1.60	1.54
1	jB	204	ALA	C-O	-5.20	1.17	1.24
1	jG	115	ILE	CA-C	-5.20	1.46	1.52
1	jG	150	ILE	CA-C	5.20	1.60	1.52
1	k5	133	TRP	CD1-NE1	5.20	1.48	1.37
1	kg	204	ALA	CA-C	5.20	1.59	1.52
1	kn	200	THR	C-N	-5.20	1.27	1.33
1	ko	72	THR	N-CA	5.20	1.52	1.46
1	kr	59	VAL	N-CA	-5.20	1.39	1.46
1	kv	64	ALA	N-CA	-5.20	1.40	1.46
1	kN	13	GLN	CA-C	5.20	1.58	1.52
1	la	126	VAL	C-N	-5.20	1.27	1.33
1	lm	90	PRO	N-CA	5.20	1.53	1.47
1	lr	65	ALA	CA-CB	5.20	1.61	1.53
1	28	154	ARG	CD-NE	5.20	1.53	1.46
1	lv	198	CYS	N-CA	-5.20	1.39	1.46
1	ly	5	ASN	C-N	5.20	1.40	1.33
1	lR	24	VAL	CA-CB	-5.20	1.48	1.54
1	2f	229	ARG	C-N	5.20	1.40	1.33
1	2g	179	GLN	CA-C	-5.20	1.46	1.52
1	2i	225	GLY	CA-C	-5.20	1.44	1.51
1	2t	106	GLY	CA-C	-5.20	1.44	1.51
1	2u	83	LEU	CA-CB	5.20	1.62	1.53
1	2z	167	ARG	C-O	-5.20	1.17	1.24
1	2C	5	ASN	CA-CB	5.20	1.61	1.53
1	2L	99	PRO	N-CA	-5.20	1.41	1.47
1	2Q	86	VAL	C-O	-5.20	1.18	1.24
1	2X	35	GLU	CA-CB	5.20	1.62	1.53
1	3c	214	MET	C-O	-5.20	1.18	1.24
1	3n	44	SER	CA-C	-5.20	1.44	1.52
1	3N	208	ALA	C-O	5.20	1.30	1.24
1	3U	105	ALA	CA-CB	-5.20	1.45	1.53
1	3Z	139	ASN	CA-C	5.20	1.59	1.52
1	4h	9	GLN	CA-CB	5.20	1.60	1.53
1	4j	68	MET	C-N	-5.20	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4r	172	LEU	C-O	-5.20	1.18	1.24
1	4C	178	SER	C-N	5.20	1.40	1.33
1	4F	130	TYR	CA-CB	5.20	1.61	1.53
1	4Q	80	TRP	C-N	-5.20	1.27	1.33
1	5c	90	PRO	N-CD	5.20	1.55	1.47
1	5t	153	ILE	CA-C	-5.20	1.46	1.52
1	5u	104	ILE	CB-CG1	-5.20	1.43	1.53
1	5z	35	GLU	N-CA	-5.20	1.39	1.46
1	5z	177	ALA	CA-CB	5.20	1.61	1.53
1	5z	210	THR	N-CA	5.20	1.52	1.45
1	5L	6	LEU	CA-CB	5.20	1.62	1.53
1	5R	198	CYS	C-N	5.20	1.41	1.34
1	5V	34	PRO	N-CA	-5.20	1.40	1.47
1	5W	197	ASP	CA-C	5.20	1.59	1.52
1	6d	219	GLN	C-N	5.20	1.41	1.33
1	6p	170	LYS	C-N	5.20	1.40	1.33
1	6x	159	GLU	CA-C	5.20	1.58	1.52
1	6z	37	ILE	N-CA	5.20	1.52	1.46
1	6T	164	TYR	CA-C	-5.20	1.46	1.52
1	6Y	169	TYR	CA-C	5.20	1.59	1.52
1	73	125	PRO	CA-C	-5.20	1.46	1.53
1	74	192	GLN	CA-C	5.20	1.59	1.52
1	76	197	ASP	C-N	5.20	1.40	1.33
1	77	160	PRO	N-CA	-5.20	1.40	1.47
1	7Q	131	LYS	CA-C	-5.20	1.46	1.52
1	7S	230	VAL	C-N	5.20	1.40	1.33
1	7U	183	ASN	CA-C	-5.20	1.46	1.52
1	7Y	161	PHE	CA-CB	5.20	1.61	1.53
1	8s	216	THR	C-N	5.20	1.40	1.33
1	8K	82	ARG	C-N	5.20	1.40	1.33
1	8R	129	ILE	C-O	5.20	1.30	1.24
1	8S	58	THR	CA-C	5.20	1.59	1.52
1	9h	85	PRO	C-N	5.20	1.40	1.33
1	9h	93	PRO	CA-C	-5.20	1.46	1.52
1	9l	193	ASN	CA-CB	5.20	1.62	1.53
1	9D	226	HIS	CD2-NE2	5.20	1.43	1.37
1	9G	27	VAL	CA-C	5.20	1.61	1.52
1	a5	12	HIS	ND1-CE1	5.20	1.37	1.32
1	a7	65	ALA	C-O	-5.20	1.17	1.24
1	ar	164	TYR	N-CA	-5.20	1.40	1.46
1	aw	51	ASP	C-O	-5.20	1.18	1.24
1	aA	203	LYS	CA-CB	5.20	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	14	97	ARG	NE-CZ	5.20	1.38	1.33
1	14	190	LEU	C-N	5.20	1.40	1.33
1	aS	124	ILE	CA-C	5.20	1.57	1.53
1	15	84	HIS	CG-CD2	5.20	1.41	1.35
1	aY	67	GLN	CA-CB	5.20	1.61	1.53
1	b0	223	GLY	C-N	5.20	1.40	1.34
1	bk	141	ILE	CA-CB	5.20	1.60	1.54
1	bl	136	LEU	CA-C	5.20	1.59	1.52
1	bv	157	PRO	N-CA	5.20	1.53	1.47
1	bJ	13	GLN	CA-C	5.20	1.58	1.52
1	bM	145	TYR	N-CA	-5.20	1.39	1.46
1	bT	165	VAL	CA-C	5.20	1.59	1.52
1	cd	51	ASP	N-CA	-5.20	1.40	1.46
1	cV	101	GLY	N-CA	5.20	1.52	1.45
1	dp	100	ARG	CZ-NH1	-5.20	1.25	1.32
1	e9	122	PRO	C-N	5.20	1.39	1.33
1	ev	154	ARG	C-O	-5.20	1.17	1.23
1	eF	228	ALA	CA-CB	5.20	1.61	1.53
1	eU	219	GLN	CG-CD	5.20	1.65	1.52
1	f8	141	ILE	CA-C	-5.20	1.45	1.52
1	fk	206	GLY	C-N	5.20	1.40	1.33
1	fl	18	ARG	CA-C	5.20	1.59	1.52
1	ft	113	GLU	CA-C	5.20	1.59	1.52
1	1x	173	ARG	CD-NE	5.20	1.53	1.46
1	fx	226	HIS	CB-CG	5.20	1.57	1.50
1	fy	4	GLN	N-CA	5.20	1.52	1.46
1	fy	48	THR	C-O	-5.20	1.16	1.24
1	fJ	150	ILE	CA-CB	5.20	1.60	1.54
1	fN	35	GLU	CA-CB	5.20	1.61	1.53
1	fT	90	PRO	N-CA	5.20	1.53	1.47
1	fZ	67	GLN	N-CA	-5.20	1.39	1.46
1	g0	132	ARG	CD-NE	5.20	1.53	1.46
1	g3	184	TRP	CA-CB	5.20	1.61	1.53
1	g7	3	VAL	CA-CB	-5.20	1.48	1.54
1	k	76	GLU	N-CA	-5.20	1.39	1.46
1	q	203	LYS	CA-C	5.20	1.60	1.52
1	B	11	VAL	N-CA	5.20	1.52	1.46
1	D	56	LEU	C-N	5.20	1.40	1.33
1	5	109	SER	CA-CB	5.20	1.62	1.53
1	6	139	ASN	CA-C	5.20	1.59	1.52
1	gL	189	LEU	CA-C	-5.20	1.49	1.52
1	hi	102	SER	C-N	5.20	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hl	86	VAL	CA-CB	-5.20	1.48	1.54
1	hP	111	LEU	C-O	-5.20	1.18	1.24
1	io	85	PRO	CA-CB	5.20	1.58	1.53
1	iq	169	TYR	C-N	5.20	1.41	1.33
1	iD	212	GLU	N-CA	-5.20	1.40	1.46
1	iY	169	TYR	CZ-OH	5.20	1.49	1.38
1	j3	162	ARG	C-N	5.20	1.41	1.33
1	1V	139	ASN	CA-CB	5.20	1.61	1.53
1	jt	219	GLN	CA-C	-5.20	1.45	1.53
1	kP	4	GLN	C-N	5.20	1.41	1.33
1	l0	219	GLN	CA-CB	5.20	1.61	1.53
1	lj	145	TYR	CA-CB	5.20	1.61	1.53
1	lq	144	MET	CA-CB	5.20	1.61	1.53
1	lu	175	GLU	N-CA	-5.20	1.39	1.46
1	lP	218	CYS	CA-C	-5.20	1.46	1.53
1	2d	15	ILE	C-N	5.20	1.40	1.33
1	2g	163	ASP	C-O	-5.20	1.18	1.24
1	2o	206	GLY	C-N	-5.20	1.29	1.33
1	2G	128	GLU	N-CA	-5.20	1.40	1.46
1	32	118	MET	CA-CB	5.20	1.62	1.53
1	35	4	GLN	CA-C	5.20	1.58	1.52
1	3h	41	SER	C-N	5.20	1.40	1.33
1	3l	223	GLY	N-CA	5.20	1.51	1.44
1	3x	18	ARG	CA-CB	5.20	1.61	1.53
1	3M	203	LYS	N-CA	-5.20	1.40	1.46
1	40	17	PRO	CA-C	-5.20	1.44	1.52
1	46	12	HIS	C-N	-5.20	1.27	1.33
1	4b	140	LYS	C-O	5.20	1.30	1.24
1	5w	139	ASN	CA-C	-5.20	1.46	1.52
1	6g	188	THR	C-N	5.20	1.40	1.33
1	6W	221	VAL	N-CA	-5.20	1.40	1.46
1	7K	50	GLN	N-CA	5.20	1.52	1.46
1	8H	11	VAL	CA-C	5.20	1.58	1.52
1	90	162	ARG	CD-NE	5.20	1.53	1.46
1	9f	19	THR	N-CA	-5.20	1.40	1.46
1	9h	96	MET	C-N	5.20	1.40	1.33
1	9r	129	ILE	CA-C	5.20	1.59	1.52
1	9T	134	ILE	C-N	5.20	1.40	1.33
1	ak	196	PRO	CA-C	-5.20	1.45	1.52
1	aI	158	LYS	CA-C	5.20	1.59	1.52
1	b6	182	LYS	CA-CB	5.20	1.61	1.53
1	by	85	PRO	N-CA	-5.20	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c1	226	HIS	CA-C	5.20	1.59	1.52
1	c3	178	SER	CA-CB	-5.20	1.45	1.53
1	ci	76	GLU	CA-CB	5.20	1.61	1.53
1	cO	162	ARG	CA-C	-5.20	1.46	1.52
1	dv	180	GLU	N-CA	-5.20	1.40	1.46
1	dZ	214	MET	CA-CB	5.20	1.61	1.53
1	eb	62	HIS	CE1-NE2	5.20	1.37	1.32
1	eR	220	GLY	N-CA	-5.20	1.38	1.45
1	eX	78	ALA	C-O	-5.20	1.18	1.24
1	fa	89	GLY	N-CA	5.20	1.51	1.44
1	fc	70	LYS	N-CA	-5.20	1.40	1.46
1	fg	142	VAL	C-O	5.20	1.30	1.24
1	g1	18	ARG	CD-NE	5.20	1.53	1.46
1	g6	216	THR	C-N	5.20	1.40	1.33
1	w	145	TYR	N-CA	-5.20	1.40	1.46
1	g9	79	GLU	C-N	5.20	1.40	1.33
1	1C	108	THR	N-CA	5.20	1.52	1.46
1	gz	150	ILE	C-N	5.20	1.41	1.33
1	gN	70	LYS	N-CA	-5.20	1.40	1.46
1	gT	123	PRO	N-CD	-5.20	1.40	1.47
1	h9	43	LEU	C-O	-5.20	1.17	1.24
1	hc	226	HIS	C-N	5.20	1.40	1.33
1	hh	195	ASN	N-CA	5.20	1.52	1.45
1	hq	91	ILE	CA-CB	-5.20	1.47	1.54
1	hw	204	ALA	CA-CB	5.20	1.61	1.53
1	i7	143	ARG	N-CA	5.20	1.52	1.46
1	ia	165	VAL	CA-C	-5.20	1.46	1.52
1	ie	84	HIS	CA-CB	5.20	1.60	1.52
1	is	167	ARG	CD-NE	5.20	1.53	1.46
1	iF	195	ASN	CA-CB	5.20	1.61	1.53
1	iH	15	ILE	C-O	-5.20	1.18	1.24
1	iT	115	ILE	C-N	5.20	1.41	1.33
1	iU	140	LYS	CA-CB	5.20	1.61	1.53
1	iV	162	ARG	NE-CZ	-5.20	1.27	1.33
1	j3	32	PHE	CA-C	-5.20	1.46	1.52
1	1U	203	LYS	CA-C	-5.20	1.46	1.52
1	jd	44	SER	C-N	5.20	1.40	1.33
1	jz	165	VAL	C-N	5.20	1.40	1.33
1	jV	130	TYR	CA-CB	5.20	1.61	1.53
1	jV	136	LEU	C-N	5.20	1.41	1.33
1	k6	72	THR	CA-CB	-5.20	1.45	1.53
1	k9	194	ALA	CA-C	5.20	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kk	82	ARG	NE-CZ	5.20	1.38	1.33
1	kv	7	GLN	CA-CB	5.20	1.60	1.53
1	kz	219	GLN	CA-CB	5.20	1.61	1.53
1	kM	215	MET	N-CA	-5.20	1.39	1.46
1	ld	68	MET	CG-SD	5.20	1.93	1.80
1	27	65	ALA	N-CA	-5.20	1.40	1.46
1	lq	141	ILE	CA-C	5.20	1.59	1.52
1	lF	37	ILE	CA-C	-5.20	1.47	1.52
1	lJ	36	VAL	N-CA	-5.20	1.39	1.46
1	lL	57	ASN	C-N	5.20	1.41	1.34
1	lO	104	ILE	CA-CB	5.20	1.60	1.54
1	2p	41	SER	CA-CB	5.20	1.61	1.53
1	2w	108	THR	N-CA	5.20	1.52	1.46
1	2J	97	ARG	CA-C	-5.20	1.46	1.52
1	3l	56	LEU	CA-C	-5.20	1.46	1.52
1	3n	220	GLY	CA-C	-5.20	1.44	1.51
1	3p	207	PRO	N-CA	-5.20	1.41	1.47
1	3w	17	PRO	N-CA	-5.20	1.40	1.47
1	3W	141	ILE	C-O	-5.20	1.18	1.24
1	4i	18	ARG	NE-CZ	5.20	1.38	1.33
1	4v	220	GLY	N-CA	5.20	1.52	1.45
1	4L	31	ALA	CA-C	-5.20	1.48	1.53
1	4O	211	LEU	N-CA	5.20	1.52	1.46
1	4Z	129	ILE	CA-C	5.20	1.59	1.52
1	5E	80	TRP	CA-C	5.20	1.59	1.52
1	5G	104	ILE	C-O	5.20	1.30	1.24
1	5L	108	THR	N-CA	-5.20	1.40	1.46
1	5S	133	TRP	C-N	5.20	1.40	1.33
1	5W	65	ALA	CA-CB	5.20	1.61	1.53
1	61	8	GLY	N-CA	5.20	1.50	1.45
1	6F	172	LEU	CA-CB	5.20	1.61	1.53
1	6P	110	THR	N-CA	5.20	1.51	1.45
1	6R	226	HIS	CG-CD2	5.20	1.41	1.35
1	6U	157	PRO	CA-C	-5.20	1.43	1.52
1	6Z	226	HIS	C-N	-5.20	1.26	1.33
1	77	75	GLU	CA-CB	5.20	1.61	1.53
1	7l	81	ASP	N-CA	5.20	1.52	1.46
1	7w	12	HIS	CA-C	-5.20	1.46	1.52
1	7G	42	ALA	CA-CB	5.20	1.61	1.53
1	7J	63	GLN	CA-CB	5.20	1.61	1.53
1	7K	205	LEU	CB-CG	5.20	1.63	1.53
1	7X	187	GLU	CA-CB	5.20	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7Y	87	HIS	C-O	-5.20	1.17	1.23
1	8j	164	TYR	CA-CB	5.20	1.61	1.53
1	8n	32	PHE	CA-CB	5.20	1.59	1.53
1	8n	131	LYS	CA-C	-5.20	1.45	1.52
1	8A	79	GLU	C-N	5.20	1.40	1.33
1	8H	53	ASN	C-N	5.20	1.40	1.33
1	8R	137	GLY	N-CA	5.20	1.52	1.45
1	8T	152	ASP	N-CA	5.20	1.53	1.45
1	9h	194	ALA	N-CA	5.20	1.52	1.45
1	9l	113	GLU	CA-C	5.20	1.59	1.52
1	9u	227	LYS	N-CA	-5.20	1.40	1.46
1	9E	214	MET	CA-CB	5.20	1.61	1.53
1	Y	67	GLN	N-CA	5.20	1.52	1.46
1	9Q	179	GLN	C-N	5.20	1.40	1.33
1	9S	12	HIS	CG-ND1	5.20	1.44	1.38
1	a4	109	SER	C-N	-5.20	1.26	1.33
1	ae	159	GLU	CA-C	5.20	1.59	1.52
1	ag	225	GLY	N-CA	5.20	1.51	1.45
1	aj	222	GLY	CA-C	5.20	1.59	1.51
1	ax	39	MET	CA-CB	5.20	1.61	1.53
1	ay	29	GLU	C-N	5.20	1.40	1.33
1	aY	227	LYS	C-O	-5.20	1.18	1.24
1	bf	147	PRO	CA-C	5.20	1.58	1.53
1	bl	19	THR	CA-C	5.20	1.59	1.52
1	bt	45	GLU	CA-CB	5.20	1.60	1.53
1	19	126	VAL	CA-C	5.20	1.59	1.52
1	1b	14	ALA	C-N	5.20	1.40	1.33
1	bZ	189	LEU	CA-C	5.20	1.59	1.52
1	c3	214	MET	C-N	5.20	1.41	1.33
1	cc	18	ARG	CD-NE	5.20	1.53	1.46
1	ct	172	LEU	CA-C	-5.20	1.46	1.52
1	cv	165	VAL	CA-C	5.20	1.59	1.52
1	cH	97	ARG	NE-CZ	5.20	1.38	1.33
1	cX	84	HIS	CE1-NE2	5.20	1.37	1.32
1	d0	62	HIS	CE1-NE2	5.20	1.37	1.32
1	d9	50	GLN	C-N	5.20	1.40	1.33
1	dj	15	ILE	N-CA	5.20	1.52	1.46
1	do	56	LEU	CA-C	-5.20	1.46	1.52
1	dx	58	THR	CA-C	-5.20	1.45	1.52
1	dC	23	TRP	NE1-CE2	5.20	1.43	1.37
1	dL	171	THR	CA-CB	-5.20	1.45	1.53
1	dM	212	GLU	CA-C	5.20	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	em	164	TYR	N-CA	-5.20	1.40	1.46
1	ep	150	ILE	N-CA	5.20	1.52	1.46
1	eq	89	GLY	N-CA	5.20	1.51	1.44
1	1r	178	SER	CA-CB	5.20	1.61	1.53
1	eJ	142	VAL	C-N	5.20	1.41	1.34
1	eT	206	GLY	C-N	5.20	1.40	1.34
1	f9	162	ARG	CD-NE	5.20	1.53	1.46
1	fc	80	TRP	CA-CB	5.20	1.61	1.53
1	1y	156	GLY	N-CA	-5.20	1.37	1.43
1	fS	12	HIS	CA-CB	5.20	1.60	1.53
1	g1	143	ARG	CZ-NH2	-5.20	1.26	1.33
1	g4	16	SER	CA-CB	5.20	1.60	1.52
1	e	20	LEU	CA-CB	5.20	1.61	1.53
1	e	119	THR	CA-CB	-5.20	1.45	1.53
1	f	187	GLU	CA-C	5.20	1.59	1.52
1	s	84	HIS	CB-CG	-5.20	1.42	1.50
1	K	169	TYR	N-CA	5.20	1.52	1.46
1	L	87	HIS	ND1-CE1	5.20	1.37	1.32
1	V	52	LEU	CA-CB	5.20	1.61	1.53
1	W	150	ILE	C-N	5.20	1.41	1.33
1	8	164	TYR	CA-C	5.20	1.59	1.52
1	gc	157	PRO	C-N	5.20	1.41	1.33
1	gt	23	TRP	NE1-CE2	-5.20	1.31	1.37
1	gV	201	ILE	CA-CB	-5.20	1.48	1.54
1	h3	170	LYS	CA-CB	5.20	1.61	1.53
1	hb	143	ARG	NE-CZ	-5.20	1.27	1.33
1	he	71	GLU	C-N	5.20	1.40	1.33
1	1J	100	ARG	N-CA	-5.20	1.39	1.45
1	1L	38	PRO	CA-CB	-5.20	1.46	1.53
1	1L	189	LEU	N-CA	-5.20	1.40	1.46
1	hU	189	LEU	N-CA	-5.20	1.40	1.46
1	i3	170	LYS	C-N	5.20	1.41	1.33
1	ij	167	ARG	CA-CB	5.20	1.61	1.53
1	io	166	ASP	CA-CB	5.20	1.61	1.53
1	iv	226	HIS	ND1-CE1	5.20	1.37	1.32
1	iA	55	MET	C-N	5.20	1.40	1.33
1	1T	49	PRO	N-CD	-5.20	1.40	1.47
1	j2	1	PRO	N-CD	5.20	1.55	1.47
1	jw	114	GLN	C-N	5.20	1.40	1.33
1	k5	202	LEU	N-CA	5.20	1.52	1.46
1	k6	149	SER	CA-CB	5.20	1.62	1.53
1	kp	119	THR	CA-CB	5.20	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kz	64	ALA	C-N	5.20	1.40	1.33
1	kC	72	THR	N-CA	5.20	1.52	1.46
1	kU	189	LEU	CA-C	5.20	1.59	1.52
1	kV	117	TRP	NE1-CE2	-5.20	1.31	1.37
1	l4	179	GLN	C-N	5.20	1.41	1.34
1	lh	10	MET	C-N	5.20	1.41	1.33
1	ll	80	TRP	CA-C	5.20	1.59	1.52
1	lD	90	PRO	C-O	-5.20	1.17	1.23
1	lI	132	ARG	C-N	5.20	1.41	1.33
1	2b	82	ARG	CD-NE	5.20	1.53	1.46
1	2n	176	GLN	C-N	5.20	1.41	1.33
1	2o	29	GLU	CA-CB	5.20	1.61	1.53
1	2G	122	PRO	N-CD	5.20	1.55	1.47
1	3r	117	TRP	NE1-CE2	-5.20	1.31	1.37
1	3Y	173	ARG	CA-C	5.20	1.59	1.52
1	4d	18	ARG	CD-NE	5.20	1.53	1.46
1	4r	62	HIS	CG-CD2	5.20	1.41	1.35
1	4D	89	GLY	C-O	-5.20	1.17	1.24
1	4G	62	HIS	CE1-NE2	5.20	1.37	1.32
1	4H	120	HIS	CB-CG	5.20	1.57	1.50
1	4K	80	TRP	CD2-CE3	-5.20	1.31	1.40
1	4O	217	ALA	CA-C	5.20	1.60	1.53
1	52	13	GLN	C-N	5.20	1.41	1.33
1	5f	76	GLU	CA-C	-5.20	1.46	1.52
1	5h	224	PRO	CA-C	5.20	1.57	1.52
1	5p	24	VAL	C-N	5.20	1.40	1.33
1	5z	138	LEU	CA-CB	5.20	1.61	1.53
1	5z	195	ASN	CA-CB	5.20	1.60	1.53
1	62	169	TYR	CA-CB	5.20	1.61	1.53
1	6d	136	LEU	CA-C	5.20	1.59	1.52
1	6q	13	GLN	CA-C	-5.20	1.46	1.52
1	6B	206	GLY	C-N	-5.20	1.29	1.34
1	6D	16	SER	C-N	5.20	1.40	1.33
1	6D	75	GLU	C-O	5.20	1.30	1.24
1	6P	31	ALA	CA-C	5.20	1.58	1.53
1	71	109	SER	CA-C	-5.20	1.46	1.52
1	7A	64	ALA	CA-C	-5.20	1.46	1.52
1	7B	79	GLU	CA-CB	5.20	1.61	1.53
1	7H	7	GLN	C-N	5.20	1.39	1.33
1	7L	6	LEU	CA-CB	5.20	1.61	1.53
1	7V	185	MET	CA-C	-5.20	1.46	1.52
1	82	154	ARG	CA-C	5.20	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8F	218	CYS	CA-C	5.20	1.59	1.52
1	8K	87	HIS	CG-ND1	-5.20	1.32	1.38
1	8R	110	THR	C-N	5.20	1.40	1.33
1	8T	197	ASP	C-N	5.20	1.41	1.33
1	8Z	54	THR	C-N	5.20	1.40	1.33
1	96	84	HIS	CD2-NE2	5.20	1.43	1.37
1	9s	120	HIS	CD2-NE2	5.20	1.43	1.37
1	9w	145	TYR	CA-C	5.20	1.59	1.52
1	9X	133	TRP	C-N	5.20	1.40	1.33
1	ad	223	GLY	N-CA	5.20	1.51	1.44
1	ah	71	GLU	C-O	-5.20	1.18	1.24
1	am	26	VAL	CA-C	5.20	1.59	1.52
1	as	71	GLU	CA-C	-5.20	1.46	1.52
1	aH	126	VAL	C-N	5.20	1.40	1.33
1	aI	208	ALA	CA-C	5.20	1.59	1.52
1	b0	31	ALA	C-O	5.20	1.30	1.24
1	b5	143	ARG	CZ-NH2	5.20	1.40	1.33
1	b7	204	ALA	C-N	-5.20	1.26	1.34
1	16	214	MET	N-CA	-5.20	1.40	1.46
1	b8	4	GLN	C-N	5.20	1.41	1.33
1	1b	150	ILE	CA-C	5.20	1.60	1.52
1	c4	56	LEU	CA-C	5.20	1.59	1.52
1	c8	125	PRO	CA-C	5.20	1.58	1.53
1	cg	131	LYS	CA-C	5.20	1.59	1.52
1	1e	23	TRP	CD2-CE2	5.20	1.50	1.41
1	cq	72	THR	N-CA	-5.20	1.40	1.46
1	cv	45	GLU	CA-C	-5.20	1.45	1.52
1	1f	66	MET	N-CA	-5.20	1.40	1.46
1	cC	40	PHE	N-CA	-5.20	1.40	1.46
1	cF	109	SER	CA-CB	5.20	1.61	1.53
1	cL	11	VAL	CA-CB	-5.20	1.47	1.55
1	d9	179	GLN	N-CA	-5.20	1.40	1.46
1	de	138	LEU	N-CA	5.20	1.52	1.46
1	dm	104	ILE	N-CA	5.20	1.52	1.46
1	dw	203	LYS	C-N	5.20	1.41	1.33
1	dB	10	MET	CA-CB	5.20	1.59	1.53
1	1m	62	HIS	CA-C	5.20	1.59	1.52
1	1p	48	THR	N-CA	5.20	1.52	1.46
1	er	12	HIS	CG-CD2	-5.20	1.30	1.35
1	eC	183	ASN	C-N	5.20	1.40	1.33
1	eH	92	GLU	N-CA	-5.20	1.38	1.45
1	eQ	181	VAL	CA-C	5.20	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g7	227	LYS	N-CA	-5.20	1.39	1.46
1	1	126	VAL	CA-C	5.20	1.59	1.52
1	m	96	MET	N-CA	-5.20	1.39	1.46
1	m	204	ALA	C-N	5.20	1.40	1.33
1	r	47	ALA	C-N	5.20	1.40	1.33
1	u	176	GLN	CA-CB	5.20	1.61	1.53
1	R	28	GLU	CA-CB	5.20	1.61	1.53
1	gh	66	MET	CA-CB	5.20	1.61	1.53
1	gz	92	GLU	CA-C	5.20	1.59	1.52
1	gI	120	HIS	CB-CG	5.20	1.57	1.50
1	1G	105	ALA	C-N	5.20	1.40	1.33
1	hu	179	GLN	C-N	5.20	1.40	1.33
1	hv	42	ALA	C-N	5.20	1.40	1.33
1	1M	108	THR	CA-CB	-5.20	1.45	1.53
1	hY	100	ARG	CD-NE	5.20	1.53	1.46
1	i5	13	GLN	CA-C	5.20	1.58	1.52
1	ic	8	GLY	CA-C	-5.20	1.44	1.51
1	ij	135	ILE	C-O	5.20	1.30	1.24
1	1P	96	MET	CA-C	5.20	1.60	1.53
1	is	140	LYS	C-N	5.20	1.40	1.33
1	iA	200	THR	CA-CB	5.20	1.61	1.53
1	iC	175	GLU	CA-CB	5.20	1.62	1.53
1	iG	92	GLU	CA-C	-5.20	1.47	1.53
1	iK	150	ILE	CA-C	5.20	1.59	1.52
1	iV	73	ILE	CA-CB	5.20	1.60	1.54
1	j6	204	ALA	C-N	5.20	1.41	1.34
1	jt	120	HIS	C-N	5.20	1.40	1.33
1	jA	32	PHE	CA-C	5.20	1.59	1.53
1	jJ	146	SER	CA-CB	5.20	1.61	1.53
1	jT	157	PRO	C-N	5.20	1.40	1.33
1	kj	70	LYS	C-O	5.20	1.30	1.24
1	kD	51	ASP	N-CA	5.20	1.52	1.46
1	kM	164	TYR	CA-C	-5.20	1.46	1.52
1	lk	95	GLN	N-CA	5.20	1.52	1.45
1	lv	84	HIS	CG-CD2	5.20	1.41	1.35
1	lv	100	ARG	CA-CB	5.20	1.61	1.53
1	lD	133	TRP	CA-C	5.20	1.59	1.52
1	lH	52	LEU	CA-C	5.20	1.59	1.52
1	lJ	176	GLN	C-N	5.20	1.40	1.33
1	2N	205	LEU	CA-C	5.20	1.59	1.52
1	2S	33	SER	CA-C	5.20	1.59	1.52
1	3H	59	VAL	N-CA	-5.20	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4h	81	ASP	CA-CB	5.20	1.61	1.53
1	4P	16	SER	N-CA	5.20	1.55	1.46
1	58	25	LYS	C-O	-5.20	1.17	1.24
1	5v	30	LYS	CA-C	5.20	1.59	1.52
1	5K	33	SER	CA-C	5.20	1.59	1.52
1	6b	112	GLN	CA-C	-5.20	1.46	1.52
1	6c	9	GLN	C-N	5.20	1.41	1.33
1	6d	31	ALA	CA-C	-5.20	1.46	1.53
1	6x	62	HIS	C-N	5.20	1.41	1.34
1	7m	84	HIS	CA-C	5.20	1.59	1.53
1	7u	174	ALA	CA-C	5.20	1.59	1.52
1	7D	46	GLY	C-N	5.20	1.40	1.33
1	8t	122	PRO	C-N	5.20	1.39	1.33
1	9Q	131	LYS	CA-CB	5.20	1.62	1.53
1	aO	115	ILE	C-N	5.20	1.40	1.33
1	b4	77	ALA	CA-CB	5.20	1.61	1.53
1	bk	155	GLN	CA-CB	5.20	1.60	1.53
1	bC	76	GLU	C-O	-5.20	1.18	1.24
1	c6	87	HIS	CD2-NE2	5.20	1.43	1.37
1	cU	42	ALA	N-CA	-5.20	1.40	1.46
1	eb	90	PRO	C-N	5.20	1.40	1.33
1	eg	136	LEU	CA-CB	5.20	1.61	1.53
1	fp	91	ILE	CA-C	5.20	1.59	1.52
1	fv	107	THR	C-N	5.20	1.40	1.33
1	fL	92	GLU	CA-CB	5.20	1.61	1.53
1	fR	209	ALA	N-CA	-5.20	1.39	1.46
1	fV	164	TYR	CA-C	5.20	1.59	1.52
1	g1	24	VAL	N-CA	-5.20	1.40	1.46
1	g6	78	ALA	N-CA	-5.20	1.40	1.46
1	f	19	THR	CA-CB	5.20	1.61	1.53
1	K	189	LEU	N-CA	-5.20	1.40	1.46
1	g9	32	PHE	C-N	-5.20	1.27	1.33
1	g9	188	THR	CA-C	5.20	1.56	1.52
1	gm	208	ALA	N-CA	5.20	1.52	1.46
1	gy	142	VAL	CA-C	-5.20	1.46	1.52
1	gJ	213	GLU	CA-CB	5.20	1.61	1.53
1	gV	172	LEU	C-O	-5.20	1.17	1.24
1	gX	100	ARG	CD-NE	5.20	1.53	1.46
1	h1	65	ALA	CA-C	5.20	1.59	1.52
1	hb	23	TRP	CA-C	5.20	1.59	1.52
1	hd	156	GLY	N-CA	5.20	1.51	1.44
1	he	154	ARG	CZ-NH1	-5.20	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hj	192	GLN	CA-CB	5.20	1.62	1.53
1	hF	144	MET	CA-C	-5.20	1.46	1.52
1	hM	1	PRO	N-CA	5.20	1.54	1.47
1	hR	153	ILE	CA-C	5.20	1.58	1.53
1	1N	169	TYR	CA-C	5.20	1.59	1.52
1	i7	85	PRO	C-N	5.20	1.40	1.33
1	ii	27	VAL	N-CA	-5.20	1.40	1.46
1	ii	75	GLU	CA-C	5.20	1.59	1.52
1	ik	63	GLN	C-N	5.20	1.40	1.33
1	in	184	TRP	NE1-CE2	5.20	1.43	1.37
1	iz	79	GLU	CA-C	5.20	1.59	1.52
1	iK	141	ILE	CA-C	5.20	1.59	1.52
1	iY	201	ILE	CA-CB	5.20	1.60	1.54
1	iZ	114	GLN	C-N	5.20	1.40	1.33
1	j6	26	VAL	C-N	5.20	1.40	1.33
1	ju	151	LEU	N-CA	-5.20	1.39	1.46
1	jG	163	ASP	C-N	5.20	1.40	1.33
1	jO	191	VAL	C-N	5.20	1.41	1.33
1	jU	223	GLY	CA-C	5.20	1.58	1.51
1	kV	144	MET	CA-CB	5.20	1.61	1.53
1	kX	4	GLN	CA-C	-5.20	1.46	1.53
1	kY	93	PRO	C-O	-5.20	1.17	1.24
1	lk	33	SER	CA-CB	5.20	1.60	1.53
1	ll	141	ILE	CA-C	5.20	1.59	1.52
1	lt	186	THR	CA-CB	5.20	1.61	1.53
1	lB	82	ARG	C-O	-5.20	1.18	1.24
1	29	163	ASP	CA-C	5.20	1.59	1.52
1	lO	179	GLN	CA-C	-5.20	1.46	1.52
1	2b	15	ILE	N-CA	5.20	1.52	1.46
1	2o	120	HIS	CE1-NE2	5.20	1.37	1.32
1	2p	63	GLN	CA-CB	5.20	1.62	1.53
1	2v	135	ILE	C-N	5.20	1.40	1.33
1	2z	87	HIS	ND1-CE1	5.20	1.37	1.32
1	2I	33	SER	C-N	5.20	1.39	1.34
1	2T	40	PHE	CA-C	5.20	1.59	1.52
1	2W	10	MET	N-CA	5.20	1.52	1.46
1	2X	173	ARG	C-O	-5.20	1.18	1.24
1	3j	117	TRP	CA-CB	5.20	1.61	1.53
1	3J	107	THR	CA-C	-5.20	1.45	1.52
1	42	75	GLU	CA-C	5.20	1.59	1.52
1	44	142	VAL	CA-CB	5.20	1.60	1.54
1	4f	18	ARG	CA-CB	5.20	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4i	41	SER	C-N	5.20	1.40	1.33
1	4C	126	VAL	C-N	5.20	1.40	1.33
1	4U	159	GLU	C-O	5.20	1.30	1.24
1	4V	224	PRO	CA-CB	5.20	1.61	1.53
1	55	85	PRO	CA-C	5.20	1.58	1.52
1	5o	181	VAL	CA-CB	5.20	1.60	1.54
1	5p	167	ARG	CA-C	-5.20	1.46	1.52
1	5A	200	THR	C-N	5.20	1.40	1.33
1	5L	77	ALA	C-N	5.20	1.40	1.33
1	60	108	THR	CA-CB	-5.20	1.45	1.53
1	6r	230	VAL	CA-CB	-5.20	1.48	1.54
1	6S	220	GLY	N-CA	-5.20	1.38	1.45
1	6V	173	ARG	CD-NE	5.20	1.53	1.46
1	6Y	216	THR	N-CA	5.20	1.52	1.46
1	78	221	VAL	CA-C	5.20	1.59	1.52
1	7x	82	ARG	N-CA	5.20	1.52	1.46
1	7x	173	ARG	CZ-NH1	-5.20	1.25	1.32
1	88	10	MET	C-N	5.20	1.40	1.33
1	88	182	LYS	N-CA	5.20	1.52	1.46
1	8b	119	THR	N-CA	5.20	1.53	1.46
1	8d	125	PRO	CA-CB	-5.20	1.50	1.53
1	8k	213	GLU	CA-CB	5.20	1.61	1.53
1	8P	192	GLN	C-N	5.20	1.40	1.33
1	8V	133	TRP	C-N	5.20	1.40	1.33
1	94	161	PHE	CA-CB	5.20	1.61	1.53
1	9e	2	ILE	CB-CG1	5.20	1.63	1.53
1	9E	209	ALA	CA-C	-5.20	1.46	1.52
1	9K	193	ASN	CB-CG	5.20	1.65	1.52
1	9N	184	TRP	CA-CB	5.20	1.61	1.53
1	a5	77	ALA	CA-C	-5.20	1.46	1.52
1	a7	126	VAL	CA-C	-5.20	1.46	1.52
1	10	226	HIS	ND1-CE1	5.20	1.37	1.32
1	ae	33	SER	N-CA	-5.20	1.41	1.45
1	ao	149	SER	CA-C	-5.20	1.46	1.52
1	aP	103	ASP	C-N	5.20	1.40	1.33
1	aW	228	ALA	N-CA	-5.20	1.39	1.46
1	b3	135	ILE	N-CA	-5.20	1.40	1.46
1	bb	98	GLU	CA-CB	5.20	1.61	1.53
1	bi	154	ARG	CA-C	-5.20	1.46	1.52
1	bM	190	LEU	C-N	5.20	1.40	1.33
1	bO	34	PRO	N-CA	-5.20	1.40	1.47
1	bP	30	LYS	C-N	5.20	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c1	85	PRO	CA-C	-5.20	1.45	1.52
1	c1	118	MET	N-CA	5.20	1.52	1.46
1	c5	212	GLU	CA-C	5.20	1.59	1.52
1	c6	101	GLY	CA-C	-5.20	1.44	1.51
1	cc	58	THR	C-N	5.20	1.40	1.33
1	cE	101	GLY	CA-C	-5.20	1.45	1.51
1	cF	46	GLY	N-CA	5.20	1.52	1.45
1	cG	53	ASN	CA-C	5.20	1.59	1.52
1	d0	134	ILE	CA-CB	5.20	1.61	1.54
1	d2	162	ARG	C-N	5.20	1.41	1.33
1	d3	48	THR	CA-CB	5.20	1.61	1.53
1	dh	120	HIS	CE1-NE2	5.20	1.37	1.32
1	dv	169	TYR	CA-C	5.20	1.59	1.52
1	dw	65	ALA	N-CA	5.20	1.52	1.46
1	1n	91	ILE	CA-CB	-5.20	1.49	1.54
1	dY	12	HIS	CD2-NE2	5.20	1.43	1.37
1	e0	157	PRO	N-CD	5.20	1.55	1.47
1	ea	95	GLN	CA-C	-5.20	1.46	1.52
1	em	169	TYR	N-CA	-5.20	1.40	1.46
1	eq	12	HIS	CA-CB	5.20	1.62	1.53
1	eT	105	ALA	C-N	5.20	1.40	1.33
1	eY	152	ASP	C-N	5.20	1.40	1.33
1	fc	138	LEU	CA-C	5.20	1.59	1.52
1	fp	181	VAL	N-CA	-5.20	1.40	1.46
1	fu	173	ARG	CA-C	-5.20	1.45	1.52
1	fE	1	PRO	N-CD	5.20	1.55	1.47
1	fM	12	HIS	CE1-NE2	5.20	1.37	1.32
1	fY	222	GLY	N-CA	5.20	1.52	1.45
1	a	76	GLU	CA-CB	5.20	1.61	1.53
1	f	83	LEU	CA-C	5.20	1.59	1.52
1	o	229	ARG	CZ-NH2	-5.20	1.26	1.33
1	q	129	ILE	CA-C	5.20	1.59	1.52
1	C	167	ARG	C-O	-5.20	1.17	1.24
1	M	56	LEU	CB-CG	5.20	1.63	1.53
1	R	208	ALA	CA-C	-5.20	1.46	1.52
1	T	96	MET	N-CA	5.20	1.52	1.46
1	W	123	PRO	C-N	5.20	1.39	1.33
1	gh	198	CYS	CA-C	-5.19	1.46	1.52
1	gs	229	ARG	N-CA	5.19	1.52	1.46
1	1E	198	CYS	CA-C	5.19	1.59	1.52
1	gJ	39	MET	CA-C	5.19	1.59	1.52
1	hP	184	TRP	CD2-CE2	5.19	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hW	31	ALA	C-O	-5.19	1.17	1.24
1	i1	123	PRO	N-CD	-5.19	1.40	1.47
1	ib	75	GLU	N-CA	-5.19	1.40	1.46
1	ii	84	HIS	ND1-CE1	5.19	1.37	1.32
1	iD	100	ARG	C-O	5.19	1.30	1.23
1	iR	37	ILE	CA-C	5.19	1.56	1.52
1	j4	55	MET	C-N	5.19	1.41	1.34
1	ja	202	LEU	N-CA	-5.19	1.39	1.46
1	jR	224	PRO	CA-CB	-5.19	1.46	1.53
1	ko	81	ASP	N-CA	-5.19	1.40	1.46
1	23	200	THR	C-O	-5.19	1.18	1.24
1	kF	221	VAL	CA-CB	5.19	1.61	1.54
1	kV	112	GLN	CA-CB	5.19	1.61	1.53
1	l5	159	GLU	CA-C	5.19	1.59	1.53
1	lL	28	GLU	C-O	-5.19	1.18	1.24
1	2e	97	ARG	CD-NE	5.19	1.53	1.46
1	2T	99	PRO	CA-C	5.19	1.58	1.52
1	3o	162	ARG	C-N	-5.19	1.27	1.33
1	3J	206	GLY	CA-C	-5.19	1.44	1.51
1	4t	184	TRP	NE1-CE2	-5.19	1.31	1.37
1	4u	19	THR	N-CA	5.19	1.52	1.46
1	4J	135	ILE	C-N	5.19	1.40	1.33
1	5v	171	THR	CA-C	-5.19	1.46	1.52
1	5w	81	ASP	CA-CB	5.19	1.61	1.53
1	5O	52	LEU	C-O	-5.19	1.18	1.24
1	66	168	PHE	CA-CB	5.19	1.61	1.53
1	7H	201	ILE	N-CA	5.19	1.52	1.46
1	85	161	PHE	CA-C	5.19	1.59	1.52
1	8l	218	CYS	CA-CB	5.19	1.62	1.53
1	8q	5	ASN	C-N	5.19	1.41	1.33
1	8M	35	GLU	N-CA	-5.19	1.39	1.46
1	9m	163	ASP	CA-CB	5.19	1.61	1.53
1	9p	50	GLN	C-N	5.19	1.41	1.33
1	9s	178	SER	N-CA	5.19	1.52	1.46
1	9A	34	PRO	C-N	5.19	1.41	1.33
1	a5	32	PHE	CG-CD2	5.19	1.49	1.38
1	a8	100	ARG	C-N	-5.19	1.27	1.33
1	aH	88	ALA	CA-CB	5.19	1.62	1.53
1	aK	166	ASP	CA-C	5.19	1.59	1.52
1	14	84	HIS	CD2-NE2	5.19	1.43	1.37
1	ba	8	GLY	N-CA	5.19	1.52	1.45
1	bG	133	TRP	C-N	5.19	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c1	127	GLY	C-O	-5.19	1.17	1.23
1	c3	107	THR	CA-CB	5.19	1.61	1.53
1	c3	176	GLN	N-CA	5.19	1.52	1.46
1	cu	209	ALA	N-CA	-5.19	1.39	1.45
1	cL	196	PRO	N-CA	-5.19	1.40	1.47
1	dO	99	PRO	CA-C	5.19	1.59	1.52
1	dW	87	HIS	C-O	-5.19	1.17	1.23
1	dZ	58	THR	CA-CB	5.19	1.61	1.53
1	e2	201	ILE	CA-C	5.19	1.60	1.52
1	1p	12	HIS	CG-CD2	-5.19	1.30	1.35
1	eo	114	GLN	CA-C	-5.19	1.46	1.52
1	eT	175	GLU	CA-C	5.19	1.59	1.52
1	fm	62	HIS	CB-CG	5.19	1.57	1.50
1	1x	192	GLN	N-CA	-5.19	1.40	1.46
1	fU	170	LYS	CA-CB	5.19	1.61	1.53
1	g5	132	ARG	CD-NE	5.19	1.53	1.46
1	b	123	PRO	CA-CB	-5.19	1.46	1.53
1	d	206	GLY	N-CA	5.19	1.51	1.44
1	B	140	LYS	CA-C	-5.19	1.46	1.52
1	gz	73	ILE	N-CA	5.19	1.52	1.46
1	gK	190	LEU	CA-CB	5.19	1.61	1.53
1	1F	195	ASN	C-N	5.19	1.40	1.34
1	gQ	142	VAL	N-CA	-5.19	1.40	1.46
1	1G	82	ARG	CZ-NH1	5.19	1.40	1.32
1	h2	121	ASN	CA-CB	5.19	1.61	1.53
1	h8	83	LEU	CA-CB	5.19	1.62	1.53
1	hL	86	VAL	CA-C	5.19	1.59	1.52
1	hP	128	GLU	CA-C	5.19	1.59	1.52
1	hT	168	PHE	C-O	-5.19	1.18	1.24
1	1M	96	MET	C-N	5.19	1.40	1.33
1	hW	56	LEU	N-CA	-5.19	1.40	1.46
1	hZ	190	LEU	N-CA	5.19	1.53	1.46
1	ib	140	LYS	CA-CB	5.19	1.61	1.53
1	iH	100	ARG	C-O	-5.19	1.16	1.23
1	1R	86	VAL	N-CA	5.19	1.52	1.46
1	iN	160	PRO	CA-CB	-5.19	1.47	1.53
1	iV	12	HIS	ND1-CE1	5.19	1.37	1.32
1	iZ	59	VAL	CA-CB	5.19	1.60	1.54
1	je	150	ILE	CA-CB	-5.19	1.48	1.54
1	jp	90	PRO	CA-CB	5.19	1.61	1.53
1	jB	36	VAL	CA-CB	-5.19	1.47	1.54
1	jC	56	LEU	N-CA	-5.19	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jH	48	THR	CA-C	-5.19	1.46	1.52
1	jJ	176	GLN	C-N	5.19	1.40	1.33
1	jR	49	PRO	N-CA	5.19	1.53	1.47
1	jS	106	GLY	C-O	5.19	1.30	1.24
1	k3	159	GLU	CA-C	5.19	1.58	1.52
1	kg	79	GLU	C-N	5.19	1.40	1.33
1	kh	133	TRP	CA-C	5.19	1.59	1.52
1	ko	24	VAL	CA-CB	5.19	1.61	1.54
1	ko	209	ALA	N-CA	5.19	1.52	1.46
1	kN	73	ILE	CA-C	5.19	1.60	1.52
1	25	39	MET	CA-CB	5.19	1.61	1.53
1	l7	72	THR	N-CA	-5.19	1.39	1.46
1	lg	80	TRP	CA-C	5.19	1.59	1.52
1	lw	9	GLN	CA-CB	5.19	1.66	1.53
1	lF	158	LYS	CA-C	-5.19	1.45	1.52
1	lH	134	ILE	CA-CB	5.19	1.60	1.54
1	lI	105	ALA	C-N	5.19	1.40	1.33
1	lN	36	VAL	CA-CB	5.19	1.60	1.54
1	lP	125	PRO	N-CD	5.19	1.55	1.47
1	lR	226	HIS	N-CA	-5.19	1.39	1.46
1	2d	56	LEU	CA-CB	5.19	1.61	1.53
1	2h	148	THR	N-CA	5.19	1.52	1.46
1	2k	201	ILE	C-N	5.19	1.40	1.33
1	2C	106	GLY	CA-C	5.19	1.58	1.51
1	2L	164	TYR	CA-CB	5.19	1.61	1.53
1	2Q	100	ARG	CD-NE	5.19	1.53	1.46
1	2R	162	ARG	CD-NE	5.19	1.53	1.46
1	36	160	PRO	CA-C	-5.19	1.46	1.52
1	3c	133	TRP	CA-CB	5.19	1.61	1.53
1	3x	62	HIS	CE1-NE2	5.19	1.37	1.32
1	3I	38	PRO	C-N	5.19	1.41	1.33
1	3J	83	LEU	CA-C	-5.19	1.46	1.52
1	3M	164	TYR	C-N	5.19	1.40	1.33
1	3P	107	THR	CA-C	-5.19	1.46	1.52
1	3X	90	PRO	CA-C	5.19	1.59	1.52
1	40	191	VAL	C-O	-5.19	1.19	1.24
1	4x	94	GLY	C-N	5.19	1.40	1.33
1	4B	191	VAL	N-CA	5.19	1.52	1.46
1	4F	151	LEU	CA-CB	5.19	1.61	1.53
1	4H	97	ARG	CA-C	-5.19	1.46	1.52
1	4Y	226	HIS	CG-ND1	-5.19	1.32	1.38
1	55	44	SER	N-CA	5.19	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5c	217	ALA	N-CA	-5.19	1.38	1.45
1	5h	21	ASN	C-O	-5.19	1.18	1.24
1	5P	77	ALA	CA-C	5.19	1.59	1.52
1	5Q	132	ARG	CA-C	5.19	1.59	1.52
1	66	144	MET	CA-C	-5.19	1.46	1.52
1	6m	170	LYS	N-CA	5.19	1.52	1.46
1	6A	63	GLN	CA-C	5.19	1.59	1.52
1	7e	134	ILE	CA-CB	5.19	1.60	1.54
1	7t	49	PRO	CA-CB	-5.19	1.46	1.53
1	7B	149	SER	CA-C	5.19	1.59	1.52
1	7C	140	LYS	C-N	5.19	1.40	1.33
1	7L	182	LYS	CA-C	5.19	1.59	1.52
1	7Q	161	PHE	N-CA	-5.19	1.40	1.46
1	7R	229	ARG	CA-C	-5.19	1.46	1.52
1	87	167	ARG	CD-NE	5.19	1.53	1.46
1	8o	164	TYR	CA-CB	5.19	1.61	1.53
1	8u	123	PRO	N-CA	5.19	1.53	1.47
1	8w	163	ASP	CA-C	5.19	1.59	1.52
1	8G	84	HIS	CA-CB	5.19	1.60	1.53
1	8H	184	TRP	N-CA	-5.19	1.40	1.46
1	90	13	GLN	CA-C	5.19	1.58	1.52
1	90	102	SER	CA-CB	5.19	1.61	1.53
1	94	49	PRO	C-O	-5.19	1.17	1.24
1	9g	34	PRO	N-CA	5.19	1.53	1.47
1	9l	215	MET	C-N	5.19	1.41	1.33
1	9p	30	LYS	C-N	5.19	1.38	1.32
1	9B	174	ALA	C-N	5.19	1.41	1.33
1	9P	218	CYS	CA-CB	5.19	1.61	1.53
1	a3	150	ILE	CA-CB	-5.19	1.48	1.54
1	10	205	LEU	CA-CB	5.19	1.61	1.53
1	at	62	HIS	ND1-CE1	-5.19	1.27	1.32
1	aG	223	GLY	CA-C	5.19	1.59	1.51
1	aV	10	MET	CA-CB	5.19	1.62	1.53
1	aW	19	THR	C-N	5.19	1.40	1.33
1	b3	182	LYS	C-O	-5.19	1.18	1.24
1	bo	5	ASN	CA-C	-5.19	1.46	1.53
1	bs	122	PRO	C-N	5.19	1.40	1.33
1	bt	179	GLN	C-N	5.19	1.40	1.33
1	bF	75	GLU	CA-CB	5.19	1.61	1.53
1	bF	100	ARG	CD-NE	5.19	1.53	1.46
1	1a	21	ASN	N-CA	-5.19	1.39	1.46
1	1c	173	ARG	CD-NE	5.19	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c6	99	PRO	C-N	5.19	1.40	1.33
1	ca	145	TYR	CA-CB	5.19	1.61	1.53
1	cf	174	ALA	CA-CB	5.19	1.61	1.53
1	cx	217	ALA	C-N	5.19	1.41	1.33
1	cF	144	MET	CA-CB	5.19	1.61	1.53
1	cP	149	SER	CA-CB	5.19	1.61	1.53
1	cQ	222	GLY	CA-C	-5.19	1.46	1.51
1	db	90	PRO	CA-C	5.19	1.58	1.52
1	dl	180	GLU	CA-C	5.19	1.59	1.52
1	dq	210	THR	CA-CB	5.19	1.61	1.53
1	dz	39	MET	CA-C	5.19	1.59	1.52
1	dB	86	VAL	N-CA	-5.19	1.39	1.46
1	dN	166	ASP	CA-C	5.19	1.59	1.52
1	e3	98	GLU	CA-C	5.19	1.59	1.53
1	ef	192	GLN	CA-C	-5.19	1.45	1.52
1	ep	195	ASN	N-CA	-5.19	1.37	1.45
1	ew	117	TRP	C-N	-5.19	1.27	1.33
1	eB	161	PHE	C-N	5.19	1.40	1.33
1	eU	226	HIS	CA-CB	5.19	1.61	1.53
1	fl	111	LEU	C-N	5.19	1.40	1.33
1	fq	133	TRP	CE2-CZ2	-5.19	1.28	1.39
1	fz	50	GLN	CA-C	5.19	1.59	1.52
1	0	80	TRP	N-CA	-5.19	1.40	1.46
1	O	190	LEU	CA-CB	5.19	1.61	1.53
1	P	112	GLN	C-O	-5.19	1.17	1.24
1	gl	214	MET	CA-CB	5.19	1.61	1.53
1	go	133	TRP	NE1-CE2	-5.19	1.31	1.37
1	gu	55	MET	CG-SD	5.19	1.93	1.80
1	gN	173	ARG	C-O	5.19	1.30	1.24
1	gY	213	GLU	CA-C	-5.19	1.46	1.52
1	gZ	4	GLN	CA-C	5.19	1.59	1.52
1	h8	192	GLN	C-N	5.19	1.40	1.33
1	hg	229	ARG	CA-C	5.19	1.59	1.52
1	hy	72	THR	C-N	5.19	1.40	1.33
1	hC	134	ILE	CA-CB	-5.19	1.48	1.54
1	hT	92	GLU	C-N	-5.19	1.29	1.33
1	hW	7	GLN	N-CA	-5.19	1.39	1.46
1	ia	60	GLY	N-CA	5.19	1.52	1.45
1	1O	71	GLU	CA-C	5.19	1.59	1.52
1	il	192	GLN	C-O	5.19	1.30	1.24
1	iw	130	TYR	N-CA	-5.19	1.39	1.46
1	iw	227	LYS	N-CA	5.19	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1R	154	ARG	NE-CZ	5.19	1.38	1.33
1	iO	104	ILE	CA-CB	5.19	1.60	1.54
1	j1	188	THR	C-N	5.19	1.41	1.33
1	jj	138	LEU	CA-CB	5.19	1.62	1.53
1	jn	75	GLU	N-CA	5.19	1.52	1.46
1	jz	173	ARG	CA-C	-5.19	1.46	1.52
1	jG	128	GLU	CA-C	-5.19	1.46	1.52
1	jJ	201	ILE	N-CA	5.19	1.52	1.46
1	jK	85	PRO	CA-CB	-5.19	1.48	1.54
1	jT	25	LYS	CA-C	-5.19	1.46	1.52
1	jV	174	ALA	C-O	-5.19	1.17	1.24
1	jZ	39	MET	CA-CB	5.19	1.61	1.53
1	kv	63	GLN	C-N	5.19	1.40	1.33
1	kC	94	GLY	C-N	5.19	1.40	1.33
1	kM	77	ALA	N-CA	5.19	1.52	1.46
1	kS	172	LEU	CA-C	5.19	1.59	1.52
1	kZ	75	GLU	C-N	5.19	1.40	1.33
1	l7	69	LEU	N-CA	-5.19	1.40	1.46
1	ln	62	HIS	CG-CD2	5.19	1.41	1.35
1	28	189	LEU	CA-C	-5.19	1.45	1.52
1	2g	28	GLU	N-CA	-5.19	1.40	1.46
1	2w	76	GLU	CA-CB	5.19	1.61	1.53
1	2Y	85	PRO	CA-CB	5.19	1.58	1.53
1	33	145	TYR	C-N	5.19	1.41	1.33
1	34	69	LEU	N-CA	-5.19	1.40	1.46
1	3l	225	GLY	CA-C	-5.19	1.46	1.52
1	3I	134	ILE	C-O	5.19	1.30	1.24
1	4y	177	ALA	N-CA	5.19	1.52	1.46
1	4A	2	ILE	CA-CB	-5.19	1.47	1.54
1	4D	59	VAL	CA-C	5.19	1.59	1.52
1	4K	20	LEU	C-N	5.19	1.41	1.33
1	4N	130	TYR	CA-CB	5.19	1.61	1.53
1	51	132	ARG	C-N	5.19	1.40	1.33
1	5b	52	LEU	CA-CB	5.19	1.61	1.53
1	5n	177	ALA	CA-CB	-5.19	1.44	1.53
1	5q	129	ILE	CA-C	5.19	1.59	1.52
1	5s	9	GLN	CA-C	-5.19	1.46	1.52
1	5t	68	MET	CA-CB	-5.19	1.45	1.53
1	5v	227	LYS	N-CA	-5.19	1.39	1.45
1	5I	112	GLN	N-CA	-5.19	1.40	1.46
1	5V	151	LEU	N-CA	5.19	1.52	1.46
1	68	143	ARG	NE-CZ	-5.19	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6h	157	PRO	CA-C	-5.19	1.46	1.52
1	6o	95	GLN	CA-C	5.19	1.60	1.53
1	6L	45	GLU	CA-CB	5.19	1.62	1.53
1	6Z	29	GLU	CA-CB	5.19	1.62	1.53
1	7b	78	ALA	CA-CB	5.19	1.61	1.53
1	7j	120	HIS	N-CA	-5.19	1.39	1.46
1	7j	150	ILE	CA-CB	5.19	1.60	1.54
1	7q	97	ARG	CD-NE	5.19	1.53	1.46
1	7w	5	ASN	CA-CB	-5.19	1.46	1.52
1	7z	26	VAL	CA-C	5.19	1.59	1.52
1	7L	147	PRO	C-N	5.19	1.40	1.33
1	7R	79	GLU	CA-CB	5.19	1.61	1.53
1	7S	114	GLN	CA-C	5.19	1.59	1.52
1	7U	45	GLU	CA-CB	5.19	1.60	1.53
1	7Z	100	ARG	NE-CZ	5.19	1.38	1.33
1	86	218	CYS	CA-C	5.19	1.59	1.52
1	8b	228	ALA	CA-CB	5.19	1.61	1.53
1	8n	142	VAL	CA-CB	-5.19	1.48	1.54
1	8E	120	HIS	C-N	5.19	1.41	1.33
1	8I	28	GLU	N-CA	-5.19	1.40	1.46
1	8M	41	SER	CA-C	-5.19	1.46	1.52
1	9j	116	GLY	CA-C	-5.19	1.46	1.52
1	Z	223	GLY	CA-C	5.19	1.58	1.51
1	aa	213	GLU	CA-CB	5.19	1.61	1.53
1	am	155	GLN	C-N	5.19	1.41	1.33
1	at	58	THR	C-N	5.19	1.40	1.33
1	at	209	ALA	CA-C	5.19	1.60	1.53
1	ay	129	ILE	CA-C	5.19	1.59	1.52
1	aS	23	TRP	CA-C	5.19	1.59	1.52
1	aT	154	ARG	N-CA	-5.19	1.39	1.46
1	aT	168	PHE	CA-C	-5.19	1.46	1.52
1	b1	180	GLU	N-CA	-5.19	1.39	1.46
1	b6	84	HIS	C-O	-5.19	1.20	1.24
1	bu	133	TRP	CA-CB	5.19	1.61	1.53
1	bz	109	SER	CA-C	-5.19	1.46	1.52
1	bJ	67	GLN	CA-C	5.19	1.59	1.52
1	1a	224	PRO	CA-C	5.19	1.58	1.52
1	1b	42	ALA	C-O	-5.19	1.18	1.24
1	cb	82	ARG	CD-NE	5.19	1.53	1.46
1	ck	113	GLU	CA-C	-5.19	1.45	1.52
1	co	169	TYR	N-CA	-5.19	1.39	1.46
1	d1	170	LYS	CA-CB	5.19	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d9	211	LEU	N-CA	-5.19	1.39	1.46
1	dp	18	ARG	C-N	-5.19	1.27	1.33
1	dC	3	VAL	CA-C	5.19	1.58	1.52
1	dF	75	GLU	CA-C	5.19	1.59	1.52
1	dP	189	LEU	CA-CB	5.19	1.59	1.53
1	dQ	98	GLU	N-CA	-5.19	1.37	1.46
1	1n	84	HIS	ND1-CE1	5.19	1.37	1.32
1	ep	180	GLU	CA-C	5.19	1.59	1.52
1	1r	36	VAL	N-CA	5.19	1.52	1.46
1	eW	178	SER	CA-C	5.19	1.59	1.52
1	fh	97	ARG	N-CA	-5.19	1.39	1.46
1	ft	209	ALA	CA-C	-5.19	1.46	1.52
1	fU	148	THR	N-CA	5.19	1.52	1.46
1	g5	206	GLY	N-CA	5.19	1.51	1.44
1	6	86	VAL	CA-C	-5.19	1.46	1.52
1	ga	199	LYS	C-N	5.19	1.40	1.33
1	1F	143	ARG	CZ-NH2	-5.19	1.26	1.33
1	hh	172	LEU	C-O	-5.19	1.18	1.24
1	hi	207	PRO	CA-C	5.19	1.57	1.52
1	ht	137	GLY	C-N	5.19	1.40	1.33
1	hZ	143	ARG	CD-NE	5.19	1.53	1.46
1	ib	216	THR	CA-CB	5.19	1.60	1.53
1	ix	200	THR	N-CA	5.19	1.52	1.46
1	iF	132	ARG	CA-CB	5.19	1.61	1.53
1	1T	154	ARG	CD-NE	5.19	1.53	1.46
1	j2	196	PRO	C-N	5.19	1.40	1.33
1	j4	117	TRP	CA-C	5.19	1.59	1.52
1	jH	133	TRP	C-O	-5.19	1.18	1.24
1	jW	187	GLU	CA-CB	5.19	1.62	1.53
1	kd	103	ASP	CA-C	-5.19	1.46	1.52
1	kf	160	PRO	N-CD	-5.19	1.40	1.47
1	ld	9	GLN	C-N	5.19	1.40	1.33
1	lk	97	ARG	NE-CZ	5.19	1.38	1.33
1	29	92	GLU	CA-CB	5.19	1.60	1.53
1	lD	2	ILE	CA-C	-5.19	1.46	1.52
1	lI	138	LEU	C-N	-5.19	1.27	1.33
1	2d	84	HIS	N-CA	-5.19	1.41	1.46
1	2f	50	GLN	C-N	5.19	1.40	1.33
1	2P	172	LEU	CA-C	-5.19	1.46	1.52
1	3n	5	ASN	N-CA	-5.19	1.39	1.46
1	56	86	VAL	CA-C	5.19	1.59	1.52
1	5e	120	HIS	N-CA	-5.19	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5o	200	THR	N-CA	5.19	1.52	1.46
1	5t	76	GLU	CA-C	-5.19	1.46	1.52
1	66	97	ARG	CZ-NH2	-5.19	1.26	1.33
1	68	70	LYS	CA-C	-5.19	1.45	1.52
1	6k	210	THR	N-CA	5.19	1.52	1.46
1	6J	59	VAL	N-CA	-5.19	1.40	1.46
1	6L	125	PRO	CA-C	-5.19	1.48	1.53
1	6P	120	HIS	ND1-CE1	5.19	1.37	1.32
1	6S	83	LEU	N-CA	-5.19	1.39	1.46
1	6Z	144	MET	CA-C	5.19	1.59	1.52
1	7O	53	ASN	CA-CB	5.19	1.61	1.53
1	8f	79	GLU	CA-C	5.19	1.59	1.52
1	8E	189	LEU	N-CA	-5.19	1.40	1.46
1	8M	123	PRO	CA-C	-5.19	1.46	1.52
1	8Z	214	MET	SD-CE	5.19	1.92	1.79
1	96	84	HIS	CA-C	5.19	1.58	1.53
1	9c	25	LYS	C-N	5.19	1.40	1.33
1	9O	180	GLU	C-N	5.19	1.40	1.33
1	9U	56	LEU	N-CA	5.19	1.52	1.46
1	a8	52	LEU	N-CA	-5.19	1.40	1.46
1	bE	135	ILE	CA-CB	-5.19	1.48	1.54
1	1b	158	LYS	C-N	5.19	1.39	1.32
1	c2	143	ARG	NE-CZ	5.19	1.38	1.33
1	ca	148	THR	CA-CB	5.19	1.62	1.53
1	cq	229	ARG	CA-C	-5.19	1.46	1.52
1	cM	16	SER	CA-C	5.19	1.58	1.53
1	dh	34	PRO	C-N	5.19	1.41	1.33
1	dX	47	ALA	C-O	5.19	1.30	1.24
1	1q	115	ILE	N-CA	-5.19	1.40	1.46
1	ez	50	GLN	C-N	5.19	1.40	1.33
1	eG	25	LYS	C-N	5.19	1.40	1.33
1	f3	112	GLN	CA-C	-5.19	1.46	1.52
1	fz	115	ILE	N-CA	5.19	1.52	1.46
1	fF	193	ASN	C-N	5.19	1.41	1.33
1	fT	157	PRO	C-N	5.19	1.40	1.33
1	X	78	ALA	CA-C	-5.19	1.46	1.52
1	gh	177	ALA	C-N	5.19	1.40	1.33
1	gQ	109	SER	N-CA	-5.19	1.39	1.45
1	gU	120	HIS	CG-CD2	5.19	1.41	1.35
1	h3	17	PRO	CA-CB	-5.19	1.46	1.53
1	ht	141	ILE	C-N	5.19	1.40	1.34
1	hx	117	TRP	NE1-CE2	-5.19	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hG	103	ASP	CA-CB	5.19	1.61	1.53
1	1L	103	ASP	CA-C	5.19	1.59	1.52
1	hL	126	VAL	C-N	5.19	1.39	1.33
1	hO	212	GLU	N-CA	5.19	1.52	1.46
1	hR	166	ASP	CA-C	-5.19	1.46	1.52
1	hZ	110	THR	CA-C	-5.19	1.46	1.53
1	i3	8	GLY	C-O	-5.19	1.17	1.24
1	i7	66	MET	CA-CB	5.19	1.61	1.53
1	ir	11	VAL	C-O	-5.19	1.18	1.24
1	iA	99	PRO	C-O	5.19	1.29	1.23
1	iI	104	ILE	CA-C	-5.19	1.46	1.52
1	iL	213	GLU	N-CA	-5.19	1.40	1.46
1	iU	98	GLU	CA-CB	5.19	1.61	1.52
1	1W	52	LEU	CA-C	-5.19	1.46	1.52
1	jz	169	TYR	CG-CD1	5.19	1.50	1.39
1	jF	181	VAL	CA-C	5.19	1.59	1.52
1	jH	114	GLN	C-N	5.19	1.40	1.34
1	kj	59	VAL	CA-C	-5.19	1.46	1.52
1	ks	69	LEU	N-CA	-5.19	1.40	1.46
1	kt	161	PHE	CA-CB	5.19	1.61	1.53
1	kB	48	THR	C-N	5.19	1.40	1.33
1	kF	170	LYS	N-CA	5.19	1.52	1.46
1	kI	148	THR	CA-C	-5.19	1.46	1.52
1	kX	151	LEU	C-N	5.19	1.41	1.34
1	l0	51	ASP	C-N	5.19	1.40	1.33
1	l5	178	SER	C-N	5.19	1.40	1.33
1	l7	116	GLY	CA-C	5.19	1.57	1.52
1	28	83	LEU	CA-C	5.19	1.59	1.52
1	lw	162	ARG	NE-CZ	-5.19	1.27	1.33
1	lM	83	LEU	CA-CB	5.19	1.61	1.53
1	2b	124	ILE	C-O	-5.19	1.17	1.24
1	2c	226	HIS	C-N	5.19	1.40	1.33
1	2G	218	CYS	CA-C	5.19	1.59	1.53
1	2L	7	GLN	C-N	5.19	1.40	1.33
1	2N	212	GLU	CA-CB	5.19	1.61	1.53
1	2P	82	ARG	CD-NE	5.19	1.53	1.46
1	2R	83	LEU	CA-CB	5.19	1.61	1.53
1	32	71	GLU	C-N	5.19	1.40	1.33
1	40	216	THR	CA-C	-5.19	1.45	1.52
1	45	16	SER	C-N	5.19	1.40	1.34
1	4a	54	THR	CA-C	5.19	1.59	1.52
1	4c	81	ASP	CA-C	5.19	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4e	24	VAL	CA-C	5.19	1.59	1.52
1	4v	222	GLY	C-N	5.19	1.41	1.33
1	58	137	GLY	C-N	-5.19	1.27	1.34
1	66	34	PRO	C-N	5.19	1.40	1.33
1	6f	143	ARG	CA-CB	5.19	1.61	1.53
1	6j	198	CYS	C-O	-5.19	1.18	1.24
1	6q	108	THR	CA-C	5.19	1.59	1.52
1	6G	122	PRO	C-N	5.19	1.40	1.33
1	6S	173	ARG	CD-NE	5.19	1.53	1.46
1	6X	148	THR	N-CA	5.19	1.52	1.45
1	7b	62	HIS	CE1-NE2	5.19	1.37	1.32
1	7k	226	HIS	CG-ND1	-5.19	1.32	1.38
1	7C	18	ARG	CA-C	5.19	1.59	1.52
1	7H	142	VAL	CA-CB	5.19	1.62	1.54
1	7Q	120	HIS	CE1-NE2	5.19	1.37	1.32
1	83	63	GLN	CA-CB	5.19	1.61	1.53
1	86	144	MET	CA-CB	5.19	1.61	1.53
1	8t	100	ARG	N-CA	-5.19	1.38	1.45
1	8A	111	LEU	N-CA	-5.19	1.40	1.46
1	8X	168	PHE	N-CA	5.19	1.52	1.46
1	93	153	ILE	C-N	5.19	1.40	1.33
1	9m	103	ASP	C-O	-5.19	1.18	1.24
1	9m	129	ILE	CA-CB	-5.19	1.48	1.54
1	9q	10	MET	C-N	5.19	1.39	1.33
1	9A	133	TRP	NE1-CE2	-5.19	1.31	1.37
1	9I	228	ALA	CA-C	-5.19	1.46	1.52
1	9J	190	LEU	C-O	5.19	1.30	1.24
1	a7	33	SER	N-CA	5.19	1.50	1.45
1	ad	101	GLY	N-CA	-5.19	1.39	1.45
1	12	95	GLN	CA-CB	-5.19	1.46	1.53
1	12	109	SER	CA-C	5.19	1.58	1.52
1	ay	126	VAL	CA-CB	-5.19	1.48	1.54
1	aA	73	ILE	CA-CB	5.19	1.60	1.54
1	aP	97	ARG	CD-NE	5.19	1.53	1.46
1	b7	173	ARG	N-CA	5.19	1.52	1.46
1	bk	116	GLY	C-N	5.19	1.41	1.33
1	bw	180	GLU	C-O	5.19	1.30	1.24
1	19	60	GLY	N-CA	5.19	1.52	1.45
1	19	154	ARG	N-CA	5.19	1.52	1.46
1	ch	107	THR	CA-C	-5.19	1.45	1.52
1	ck	99	PRO	CA-C	5.19	1.58	1.52
1	cn	220	GLY	N-CA	5.19	1.50	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cM	228	ALA	N-CA	-5.19	1.39	1.46
1	1h	70	LYS	CA-CB	5.19	1.61	1.53
1	cX	111	LEU	C-N	5.19	1.41	1.34
1	d0	129	ILE	CA-C	5.19	1.59	1.52
1	dW	60	GLY	CA-C	-5.19	1.44	1.51
1	e8	121	ASN	CA-C	5.19	1.59	1.52
1	eb	92	GLU	N-CA	5.19	1.53	1.45
1	ec	111	LEU	CB-CG	5.19	1.63	1.53
1	en	192	GLN	N-CA	-5.19	1.40	1.46
1	eB	117	TRP	N-CA	-5.19	1.39	1.46
1	eB	124	ILE	CA-CB	5.19	1.59	1.53
1	eC	229	ARG	N-CA	-5.19	1.39	1.46
1	1s	178	SER	N-CA	5.19	1.52	1.46
1	eK	120	HIS	ND1-CE1	5.19	1.37	1.32
1	fr	76	GLU	N-CA	5.19	1.52	1.46
1	1x	12	HIS	CD2-NE2	5.19	1.43	1.37
1	fC	171	THR	C-O	-5.19	1.17	1.24
1	g4	96	MET	CA-C	5.19	1.59	1.52
1	R	133	TRP	CA-C	5.19	1.59	1.52
1	U	192	GLN	C-N	5.19	1.40	1.33
1	gz	187	GLU	N-CA	-5.19	1.40	1.46
1	1F	108	THR	N-CA	-5.19	1.39	1.46
1	1G	4	GLN	CA-CB	5.19	1.62	1.53
1	gX	171	THR	C-O	-5.19	1.18	1.24
1	h9	125	PRO	N-CA	-5.19	1.43	1.47
1	hf	8	GLY	CA-C	-5.19	1.44	1.51
1	hu	74	ASN	CA-CB	5.19	1.61	1.53
1	i5	123	PRO	C-N	5.19	1.37	1.33
1	ib	74	ASN	CA-CB	5.19	1.61	1.53
1	iO	71	GLU	CA-CB	5.19	1.61	1.53
1	jd	52	LEU	CA-CB	5.19	1.61	1.53
1	1W	77	ALA	CA-C	5.19	1.59	1.52
1	jy	29	GLU	CA-C	-5.19	1.46	1.52
1	jF	132	ARG	CD-NE	5.19	1.53	1.46
1	jG	120	HIS	ND1-CE1	5.19	1.37	1.32
1	k7	66	MET	CA-C	-5.19	1.46	1.52
1	ke	132	ARG	CA-CB	5.19	1.61	1.53
1	ko	52	LEU	C-N	5.19	1.40	1.33
1	ku	170	LYS	C-N	5.19	1.41	1.34
1	24	226	HIS	N-CA	5.19	1.52	1.46
1	l8	79	GLU	CA-C	-5.19	1.46	1.52
1	lf	102	SER	CA-C	-5.19	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lf	184	TRP	CA-C	5.19	1.59	1.52
1	lh	40	PHE	CG-CD2	5.19	1.49	1.38
1	2G	12	HIS	C-N	5.19	1.40	1.33
1	36	13	GLN	N-CA	-5.19	1.39	1.46
1	3z	174	ALA	C-N	5.19	1.40	1.33
1	42	156	GLY	N-CA	5.19	1.51	1.44
1	45	62	HIS	CE1-NE2	5.19	1.37	1.32
1	4r	112	GLN	N-CA	-5.19	1.40	1.46
1	4u	84	HIS	CB-CG	5.19	1.57	1.50
1	4S	86	VAL	C-N	-5.19	1.25	1.33
1	5b	1	PRO	N-CA	5.19	1.54	1.47
1	5d	152	ASP	CA-C	-5.19	1.46	1.52
1	6v	87	HIS	CA-CB	5.19	1.61	1.53
1	6M	152	ASP	CA-C	-5.19	1.46	1.52
1	6Q	135	ILE	C-N	5.19	1.41	1.34
1	7u	73	ILE	CA-C	-5.19	1.46	1.52
1	8C	161	PHE	CA-C	5.19	1.59	1.52
1	9a	204	ALA	CA-CB	5.19	1.61	1.53
1	9f	62	HIS	N-CA	-5.19	1.38	1.46
1	9s	9	GLN	CA-CB	5.19	1.61	1.53
1	9R	205	LEU	C-N	5.19	1.41	1.33
1	an	120	HIS	N-CA	-5.19	1.39	1.45
1	aA	89	GLY	N-CA	5.19	1.51	1.44
1	18	90	PRO	CA-CB	5.19	1.59	1.53
1	bW	134	ILE	N-CA	-5.19	1.40	1.46
1	bZ	166	ASP	CA-CB	5.19	1.61	1.53
1	cB	101	GLY	N-CA	5.19	1.52	1.45
1	dc	1	PRO	N-CD	5.19	1.55	1.47
1	dT	30	LYS	C-N	5.19	1.39	1.33
1	ef	101	GLY	C-N	-5.19	1.26	1.34
1	eX	25	LYS	C-N	5.19	1.40	1.33
1	ff	95	GLN	N-CA	-5.19	1.40	1.45
1	fR	71	GLU	N-CA	5.19	1.52	1.46
1	1A	115	ILE	C-N	5.19	1.41	1.33
1	J	177	ALA	C-N	5.19	1.40	1.33
1	gE	207	PRO	CA-CB	5.18	1.60	1.53
1	gH	67	GLN	C-O	-5.18	1.18	1.24
1	gS	140	LYS	CA-C	-5.18	1.46	1.52
1	h1	71	GLU	CA-CB	5.18	1.61	1.53
1	1H	17	PRO	CA-CB	5.18	1.61	1.53
1	1H	146	SER	CA-CB	5.18	1.60	1.53
1	hl	188	THR	C-N	5.18	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hQ	143	ARG	C-N	5.18	1.40	1.33
1	i1	115	ILE	CA-CB	-5.18	1.48	1.54
1	i5	196	PRO	CA-CB	-5.18	1.45	1.53
1	ip	217	ALA	CA-C	5.18	1.59	1.52
1	ir	104	ILE	CA-C	-5.18	1.46	1.52
1	iW	21	ASN	CA-CB	5.18	1.61	1.53
1	iY	132	ARG	CA-C	-5.18	1.46	1.52
1	iZ	120	HIS	N-CA	-5.18	1.39	1.45
1	jd	214	MET	CA-C	5.18	1.59	1.52
1	jl	209	ALA	C-N	5.18	1.40	1.33
1	jq	179	GLN	CA-CB	5.18	1.61	1.53
1	ju	131	LYS	C-N	5.18	1.40	1.33
1	jv	26	VAL	CA-CB	-5.18	1.48	1.54
1	1W	214	MET	C-N	5.18	1.41	1.33
1	jx	2	ILE	CA-CB	-5.18	1.48	1.54
1	jx	100	ARG	CZ-NH1	-5.18	1.25	1.32
1	1X	83	LEU	N-CA	-5.18	1.40	1.46
1	jP	71	GLU	N-CA	-5.18	1.39	1.46
1	1Z	65	ALA	CA-CB	5.18	1.61	1.53
1	k5	84	HIS	CG-ND1	-5.18	1.32	1.38
1	kx	87	HIS	CA-C	5.18	1.59	1.52
1	kC	24	VAL	C-N	5.18	1.41	1.33
1	kH	193	ASN	N-CA	-5.18	1.40	1.46
1	kQ	141	ILE	N-CA	-5.18	1.40	1.46
1	kR	81	ASP	CA-CB	5.18	1.61	1.53
1	25	103	ASP	CA-CB	5.18	1.61	1.53
1	l1	203	LYS	CA-C	-5.18	1.46	1.52
1	l4	27	VAL	CA-CB	-5.18	1.47	1.54
1	l8	88	ALA	N-CA	5.18	1.52	1.46
1	l9	111	LEU	CA-C	5.18	1.59	1.52
1	ld	32	PHE	CA-CB	5.18	1.60	1.53
1	lg	23	TRP	CA-CB	5.18	1.61	1.53
1	lD	5	ASN	N-CA	-5.18	1.40	1.46
1	lE	82	ARG	N-CA	5.18	1.52	1.46
1	lH	219	GLN	C-N	5.18	1.41	1.33
1	lK	10	MET	CA-CB	5.18	1.62	1.53
1	2c	164	TYR	CA-C	5.18	1.59	1.52
1	2d	179	GLN	CA-CB	5.18	1.61	1.53
1	2h	210	THR	CB-OG1	-5.18	1.35	1.43
1	2A	3	VAL	CA-C	5.18	1.60	1.52
1	2E	28	GLU	CA-C	-5.18	1.46	1.52
1	2J	156	GLY	C-N	5.18	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2T	60	GLY	N-CA	5.18	1.52	1.45
1	2V	113	GLU	CA-C	5.18	1.59	1.52
1	2Z	42	ALA	CA-C	5.18	1.59	1.52
1	3e	208	ALA	CA-CB	5.18	1.64	1.54
1	3g	91	ILE	CA-C	5.18	1.58	1.52
1	3y	163	ASP	C-N	-5.18	1.27	1.33
1	3C	10	MET	CA-CB	5.18	1.59	1.53
1	3D	226	HIS	CG-ND1	-5.18	1.32	1.38
1	3R	45	GLU	CA-CB	-5.18	1.46	1.53
1	45	75	GLU	CA-C	-5.18	1.46	1.52
1	4t	84	HIS	CD2-NE2	5.18	1.43	1.37
1	4w	209	ALA	N-CA	-5.18	1.38	1.46
1	4D	162	ARG	CA-C	-5.18	1.45	1.52
1	4F	119	THR	N-CA	5.18	1.52	1.46
1	4F	227	LYS	N-CA	-5.18	1.39	1.46
1	4J	160	PRO	C-N	5.18	1.41	1.33
1	55	108	THR	C-N	5.18	1.41	1.33
1	5a	176	GLN	N-CA	5.18	1.53	1.46
1	5b	130	TYR	CA-C	5.18	1.59	1.52
1	5e	149	SER	N-CA	5.18	1.52	1.46
1	5f	82	ARG	CD-NE	5.18	1.53	1.46
1	5y	167	ARG	CA-CB	5.18	1.61	1.53
1	5y	210	THR	CB-OG1	-5.18	1.35	1.43
1	5C	48	THR	N-CA	5.18	1.52	1.45
1	62	19	THR	CA-C	-5.18	1.46	1.52
1	68	155	GLN	C-N	5.18	1.41	1.33
1	68	221	VAL	N-CA	5.18	1.52	1.46
1	6b	119	THR	C-O	-5.18	1.17	1.24
1	6f	38	PRO	C-N	5.18	1.40	1.33
1	6l	145	TYR	N-CA	-5.18	1.39	1.46
1	6p	153	ILE	CA-CB	5.18	1.60	1.54
1	6C	197	ASP	CA-C	5.18	1.59	1.52
1	6H	161	PHE	C-N	5.18	1.40	1.33
1	70	23	TRP	CA-CB	5.18	1.61	1.53
1	7i	133	TRP	CA-C	5.18	1.59	1.52
1	7l	32	PHE	CA-C	-5.18	1.46	1.52
1	7Y	100	ARG	N-CA	-5.18	1.39	1.45
1	8e	173	ARG	CZ-NH1	-5.18	1.25	1.32
1	8h	71	GLU	C-N	-5.18	1.26	1.33
1	8x	179	GLN	C-N	5.18	1.40	1.33
1	9h	13	GLN	N-CA	5.18	1.52	1.46
1	9M	102	SER	CA-CB	5.18	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9V	78	ALA	CA-CB	5.18	1.61	1.53
1	9W	183	ASN	CA-CB	5.18	1.61	1.53
1	9Z	46	GLY	CA-C	-5.18	1.44	1.51
1	a3	93	PRO	CA-CB	-5.18	1.46	1.53
1	ar	199	LYS	CA-CB	5.18	1.61	1.53
1	as	202	LEU	CA-C	5.18	1.59	1.52
1	12	190	LEU	C-N	5.18	1.40	1.33
1	13	167	ARG	CA-C	5.18	1.59	1.52
1	aE	218	CYS	CA-C	-5.18	1.46	1.53
1	aK	192	GLN	C-N	5.18	1.41	1.33
1	aN	6	LEU	C-N	5.18	1.40	1.33
1	aN	115	ILE	CA-C	5.18	1.59	1.52
1	aU	200	THR	CA-C	-5.18	1.46	1.52
1	aY	134	ILE	C-N	5.18	1.39	1.34
1	b9	6	LEU	CA-C	5.18	1.60	1.53
1	bj	226	HIS	ND1-CE1	5.18	1.37	1.32
1	bS	81	ASP	CA-C	5.18	1.59	1.52
1	c3	95	GLN	C-O	-5.18	1.17	1.24
1	ce	146	SER	CA-C	-5.18	1.48	1.52
1	cq	127	GLY	C-N	5.18	1.41	1.33
1	cx	36	VAL	C-N	5.18	1.41	1.33
1	cz	89	GLY	N-CA	5.18	1.51	1.44
1	1g	149	SER	C-O	-5.18	1.17	1.23
1	cU	185	MET	CA-C	5.18	1.59	1.52
1	d5	202	LEU	N-CA	-5.18	1.39	1.46
1	dg	37	ILE	CA-CB	-5.18	1.47	1.54
1	dm	47	ALA	N-CA	5.18	1.52	1.46
1	dw	18	ARG	CA-C	-5.18	1.46	1.52
1	dy	59	VAL	C-N	5.18	1.41	1.33
1	dF	130	TYR	CA-CB	5.18	1.61	1.53
1	dH	212	GLU	C-N	5.18	1.40	1.33
1	dN	1	PRO	N-CD	5.18	1.55	1.47
1	dU	114	GLN	CA-CB	5.18	1.61	1.53
1	e4	100	ARG	CD-NE	5.18	1.53	1.46
1	ej	143	ARG	CD-NE	5.18	1.53	1.46
1	ej	176	GLN	CA-CB	5.18	1.59	1.53
1	eB	50	GLN	C-N	-5.18	1.26	1.33
1	eN	175	GLU	CA-C	5.18	1.59	1.52
1	eO	118	MET	CA-C	-5.18	1.45	1.52
1	eY	131	LYS	CA-CB	5.18	1.61	1.53
1	fp	101	GLY	N-CA	5.18	1.52	1.45
1	fr	37	ILE	N-CA	5.18	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fw	152	ASP	CA-CB	5.18	1.62	1.53
1	fC	148	THR	CA-CB	5.18	1.64	1.54
1	fV	67	GLN	C-N	5.18	1.40	1.33
1	g5	100	ARG	CA-C	5.18	1.60	1.53
1	0	82	ARG	CD-NE	5.18	1.53	1.46
1	k	90	PRO	CA-CB	-5.18	1.47	1.53
1	m	124	ILE	CA-CB	5.18	1.59	1.53
1	t	221	VAL	CA-C	-5.18	1.46	1.52
1	v	182	LYS	CA-C	5.18	1.59	1.52
1	z	162	ARG	CZ-NH2	-5.18	1.26	1.33
1	H	118	MET	CA-CB	5.18	1.62	1.53
1	T	209	ALA	C-N	-5.18	1.26	1.33
1	V	54	THR	C-N	5.18	1.40	1.33
1	9	3	VAL	C-O	-5.18	1.18	1.24
1	ga	22	ALA	C-O	-5.18	1.18	1.24
1	ge	83	LEU	CA-CB	5.18	1.61	1.53
1	gh	20	LEU	C-O	-5.18	1.18	1.24
1	1C	12	HIS	CA-C	-5.18	1.46	1.52
1	gJ	83	LEU	CA-C	5.18	1.59	1.52
1	gX	160	PRO	CA-CB	5.18	1.61	1.53
1	h5	122	PRO	C-N	5.18	1.39	1.33
1	h7	158	LYS	N-CA	-5.18	1.39	1.46
1	hh	9	GLN	C-O	-5.18	1.17	1.23
1	hr	147	PRO	N-CA	5.18	1.53	1.47
1	ht	176	GLN	N-CA	5.18	1.52	1.46
1	hv	118	MET	CA-C	5.18	1.59	1.52
1	hD	77	ALA	CA-C	5.18	1.59	1.52
1	hH	11	VAL	C-N	5.18	1.40	1.33
1	hN	23	TRP	CA-CB	5.18	1.61	1.53
1	1M	230	VAL	C-N	5.18	1.40	1.33
1	hX	100	ARG	N-CA	5.18	1.52	1.45
1	i1	13	GLN	CA-C	5.18	1.58	1.52
1	ih	90	PRO	CA-CB	-5.18	1.46	1.53
1	il	77	ALA	CA-C	5.18	1.59	1.52
1	io	159	GLU	C-N	5.18	1.40	1.33
1	iw	73	ILE	CB-CG1	5.18	1.63	1.53
1	iE	28	GLU	N-CA	-5.18	1.39	1.46
1	iV	225	GLY	C-N	5.18	1.40	1.33
1	1T	14	ALA	N-CA	-5.18	1.39	1.46
1	j3	54	THR	CA-C	-5.18	1.45	1.52
1	j4	89	GLY	CA-C	-5.18	1.44	1.51
1	jc	226	HIS	C-N	5.18	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	je	85	PRO	CA-C	5.18	1.59	1.52
1	jh	20	LEU	CA-C	5.18	1.59	1.52
1	ji	92	GLU	C-O	-5.18	1.19	1.24
1	jk	143	ARG	N-CA	5.18	1.52	1.46
1	1W	173	ARG	CD-NE	5.18	1.53	1.46
1	jA	117	TRP	CA-C	5.18	1.59	1.52
1	1Z	138	LEU	CA-CB	5.18	1.61	1.53
1	20	130	TYR	C-O	-5.18	1.18	1.24
1	ke	183	ASN	CA-CB	5.18	1.61	1.53
1	kv	216	THR	N-CA	5.18	1.52	1.46
1	ky	229	ARG	CD-NE	5.18	1.53	1.46
1	kU	167	ARG	CA-C	-5.18	1.46	1.52
1	l1	190	LEU	C-N	5.18	1.39	1.33
1	lg	24	VAL	CA-C	-5.18	1.46	1.52
1	27	99	PRO	N-CA	-5.18	1.41	1.47
1	lE	215	MET	CA-C	5.18	1.59	1.52
1	lM	132	ARG	C-O	-5.18	1.18	1.24
1	2e	12	HIS	N-CA	5.18	1.52	1.46
1	2x	225	GLY	CA-C	-5.18	1.44	1.51
1	2z	18	ARG	CA-CB	5.18	1.61	1.53
1	2A	68	MET	CA-CB	5.18	1.61	1.53
1	2I	213	GLU	CA-C	5.18	1.59	1.52
1	2L	145	TYR	CA-CB	5.18	1.61	1.53
1	2M	148	THR	CA-C	-5.18	1.46	1.52
1	3j	45	GLU	CA-CB	5.18	1.61	1.53
1	3y	138	LEU	CA-C	5.18	1.59	1.52
1	3J	177	ALA	CA-C	5.18	1.59	1.52
1	3Q	217	ALA	CA-C	-5.18	1.46	1.52
1	3U	153	ILE	C-O	-5.18	1.18	1.24
1	3U	170	LYS	CA-C	-5.18	1.45	1.52
1	4e	161	PHE	C-O	-5.18	1.17	1.24
1	4I	151	LEU	CB-CG	5.18	1.63	1.53
1	4Z	224	PRO	CA-C	-5.18	1.46	1.52
1	59	1	PRO	N-CD	5.18	1.55	1.47
1	5O	204	ALA	N-CA	5.18	1.53	1.46
1	5T	154	ARG	CD-NE	5.18	1.53	1.46
1	6J	50	GLN	C-N	5.18	1.40	1.33
1	6T	76	GLU	N-CA	-5.18	1.40	1.46
1	70	84	HIS	CE1-NE2	5.18	1.37	1.32
1	73	104	ILE	N-CA	-5.18	1.40	1.46
1	7h	115	ILE	N-CA	-5.18	1.40	1.46
1	7l	208	ALA	C-N	5.18	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7o	141	ILE	N-CA	5.18	1.52	1.46
1	7S	74	ASN	CA-CB	5.18	1.61	1.53
1	80	111	LEU	CA-C	5.18	1.59	1.52
1	84	187	GLU	N-CA	5.18	1.52	1.46
1	85	129	ILE	CA-C	-5.18	1.46	1.52
1	89	117	TRP	CA-CB	5.18	1.61	1.53
1	8a	187	GLU	CA-CB	5.18	1.61	1.53
1	8l	87	HIS	CD2-NE2	5.18	1.43	1.37
1	8m	24	VAL	CA-CB	-5.18	1.48	1.54
1	8T	50	GLN	CA-C	5.18	1.59	1.52
1	8V	82	ARG	N-CA	-5.18	1.40	1.46
1	8W	143	ARG	CD-NE	5.18	1.53	1.46
1	9g	62	HIS	CA-C	-5.18	1.46	1.53
1	9Y	115	ILE	CB-CG1	5.18	1.63	1.53
1	a6	117	TRP	N-CA	5.18	1.52	1.46
1	ab	142	VAL	C-N	5.18	1.40	1.33
1	aq	226	HIS	CA-CB	5.18	1.61	1.54
1	aN	164	TYR	CA-CB	5.18	1.61	1.53
1	aT	6	LEU	N-CA	-5.18	1.40	1.46
1	b5	193	ASN	C-O	-5.18	1.17	1.24
1	16	190	LEU	CA-CB	5.18	1.61	1.53
1	bn	79	GLU	C-O	-5.18	1.17	1.24
1	bx	149	SER	CA-CB	5.18	1.64	1.54
1	bH	6	LEU	C-N	5.18	1.41	1.33
1	bV	34	PRO	CA-CB	-5.18	1.46	1.53
1	cc	216	THR	CA-CB	-5.18	1.46	1.54
1	cu	97	ARG	CA-CB	5.18	1.61	1.53
1	cw	164	TYR	CA-CB	5.18	1.61	1.53
1	cU	69	LEU	C-N	5.18	1.41	1.33
1	d7	67	GLN	CA-CB	5.18	1.61	1.53
1	dB	117	TRP	CA-CB	5.18	1.61	1.53
1	dD	193	ASN	CA-CB	5.18	1.62	1.53
1	e1	172	LEU	CA-CB	5.18	1.61	1.53
1	ed	86	VAL	CA-CB	-5.18	1.48	1.54
1	eg	146	SER	C-O	-5.18	1.19	1.24
1	ej	153	ILE	N-CA	-5.18	1.40	1.46
1	et	42	ALA	N-CA	5.18	1.52	1.46
1	ey	8	GLY	CA-C	-5.18	1.47	1.52
1	1s	195	ASN	CG-ND2	5.18	1.44	1.33
1	eK	164	TYR	C-N	5.18	1.40	1.33
1	eP	172	LEU	CA-CB	5.18	1.61	1.53
1	1t	127	GLY	C-O	-5.18	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eR	30	LYS	C-N	5.18	1.41	1.33
1	eT	113	GLU	CA-C	-5.18	1.46	1.52
1	eW	132	ARG	CA-CB	5.18	1.61	1.53
1	eX	81	ASP	N-CA	-5.18	1.39	1.46
1	1y	83	LEU	N-CA	5.18	1.52	1.46
1	fZ	225	GLY	N-CA	5.18	1.50	1.45
1	d	143	ARG	CZ-NH2	-5.18	1.26	1.33
1	o	6	LEU	CA-C	-5.18	1.45	1.52
1	r	87	HIS	CA-CB	-5.18	1.45	1.53
1	4	45	GLU	N-CA	5.18	1.53	1.46
1	W	96	MET	N-CA	-5.18	1.39	1.45
1	7	126	VAL	N-CA	-5.18	1.40	1.46
1	1G	190	LEU	CA-CB	5.18	1.61	1.53
1	gW	219	GLN	CA-CB	5.18	1.62	1.53
1	hq	206	GLY	C-N	-5.18	1.28	1.34
1	ht	62	HIS	CG-ND1	5.18	1.44	1.38
1	ib	182	LYS	CA-C	-5.18	1.46	1.52
1	1R	127	GLY	N-CA	5.18	1.52	1.45
1	iI	176	GLN	N-CA	5.18	1.52	1.46
1	jN	149	SER	C-N	5.18	1.39	1.34
1	1Z	173	ARG	C-N	5.18	1.41	1.33
1	kc	157	PRO	CA-CB	5.18	1.61	1.53
1	kw	28	GLU	CA-CB	5.18	1.61	1.53
1	kU	193	ASN	CA-CB	5.18	1.62	1.53
1	lp	40	PHE	N-CA	5.18	1.52	1.46
1	lu	117	TRP	NE1-CE2	-5.18	1.31	1.37
1	2f	18	ARG	CD-NE	5.18	1.53	1.46
1	3d	90	PRO	N-CA	5.18	1.53	1.47
1	3o	154	ARG	C-N	5.18	1.40	1.33
1	3x	164	TYR	CZ-OH	5.18	1.49	1.38
1	4I	112	GLN	C-O	-5.18	1.18	1.24
1	5o	89	GLY	N-CA	5.18	1.52	1.44
1	5C	80	TRP	C-O	-5.18	1.18	1.24
1	5K	122	PRO	N-CD	-5.18	1.40	1.47
1	5M	84	HIS	CG-CD2	5.18	1.41	1.35
1	6w	90	PRO	C-N	5.18	1.40	1.33
1	6H	138	LEU	N-CA	-5.18	1.40	1.46
1	6N	63	GLN	N-CA	-5.18	1.40	1.46
1	6R	117	TRP	NE1-CE2	-5.18	1.31	1.37
1	7B	211	LEU	N-CA	-5.18	1.39	1.46
1	7R	84	HIS	N-CA	-5.18	1.40	1.46
1	7T	1	PRO	CA-CB	-5.18	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	87	139	ASN	N-CA	-5.18	1.40	1.46
1	8e	23	TRP	CA-C	5.18	1.59	1.52
1	8i	12	HIS	CB-CG	-5.18	1.42	1.50
1	8Q	11	VAL	CA-C	5.18	1.58	1.52
1	8V	212	GLU	CA-CB	5.18	1.61	1.53
1	9a	133	TRP	NE1-CE2	-5.18	1.31	1.37
1	9e	57	ASN	CA-CB	5.18	1.61	1.53
1	9k	19	THR	N-CA	5.18	1.52	1.46
1	9w	143	ARG	CA-CB	5.18	1.61	1.53
1	br	63	GLN	CA-CB	5.18	1.61	1.53
1	bM	132	ARG	CA-C	-5.18	1.46	1.52
1	ci	12	HIS	ND1-CE1	5.18	1.37	1.32
1	ct	100	ARG	CD-NE	5.18	1.53	1.46
1	dc	75	GLU	CA-CB	5.18	1.61	1.53
1	dg	145	TYR	CA-CB	5.18	1.62	1.53
1	dq	36	VAL	N-CA	5.18	1.52	1.46
1	e5	143	ARG	CD-NE	5.18	1.53	1.46
1	e5	160	PRO	CA-C	-5.18	1.46	1.52
1	ef	113	GLU	C-N	5.18	1.40	1.33
1	f2	32	PHE	CA-CB	5.18	1.60	1.53
1	f7	169	TYR	N-CA	-5.18	1.40	1.46
1	fF	19	THR	C-O	5.18	1.30	1.24
1	c	82	ARG	C-N	5.18	1.41	1.34
1	B	182	LYS	CA-C	5.18	1.59	1.52
1	E	90	PRO	C-N	5.18	1.40	1.33
1	V	204	ALA	C-N	5.18	1.40	1.33
1	7	154	ARG	N-CA	-5.18	1.39	1.45
1	gk	57	ASN	CA-C	5.18	1.59	1.52
1	gq	35	GLU	CA-CB	5.18	1.62	1.53
1	gE	193	ASN	CA-C	5.18	1.60	1.52
1	gN	176	GLN	N-CA	-5.18	1.40	1.46
1	ha	21	ASN	C-O	5.18	1.30	1.24
1	hd	154	ARG	CA-C	5.18	1.59	1.52
1	1I	87	HIS	ND1-CE1	5.18	1.37	1.32
1	hg	221	VAL	C-N	5.18	1.43	1.33
1	hB	91	ILE	N-CA	-5.18	1.40	1.46
1	hS	94	GLY	C-N	5.18	1.40	1.33
1	i2	111	LEU	CA-CB	5.18	1.61	1.53
1	if	62	HIS	CE1-NE2	5.18	1.37	1.32
1	im	81	ASP	CA-CB	5.18	1.61	1.53
1	iy	152	ASP	CA-C	-5.18	1.46	1.52
1	iF	87	HIS	CB-CG	5.18	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1R	174	ALA	C-N	5.18	1.40	1.33
1	iR	164	TYR	CA-C	5.18	1.59	1.52
1	j6	70	LYS	N-CA	5.18	1.52	1.46
1	jd	44	SER	CA-CB	5.18	1.61	1.53
1	jj	84	HIS	N-CA	-5.18	1.41	1.46
1	jx	215	MET	C-N	5.18	1.40	1.33
1	jz	54	THR	C-N	5.18	1.40	1.33
1	1Y	188	THR	CB-OG1	-5.18	1.35	1.43
1	jQ	133	TRP	CA-CB	5.18	1.61	1.53
1	kb	28	GLU	CA-CB	5.18	1.61	1.53
1	ku	27	VAL	C-N	5.18	1.40	1.33
1	kw	40	PHE	CA-C	5.18	1.59	1.52
1	kC	136	LEU	N-CA	5.18	1.52	1.46
1	kL	224	PRO	N-CA	5.18	1.53	1.47
1	kP	107	THR	CA-C	-5.18	1.46	1.52
1	kU	149	SER	CA-CB	5.18	1.61	1.53
1	lk	13	GLN	C-O	-5.18	1.18	1.23
1	lx	75	GLU	CA-C	-5.18	1.46	1.52
1	lL	178	SER	CA-C	5.18	1.59	1.52
1	2b	10	MET	C-N	5.18	1.40	1.33
1	2j	80	TRP	CG-CD2	5.18	1.53	1.43
1	2m	142	VAL	CA-CB	-5.18	1.48	1.54
1	2o	120	HIS	CD2-NE2	5.18	1.43	1.37
1	2J	155	GLN	CA-CB	5.18	1.60	1.53
1	34	208	ALA	C-N	5.18	1.40	1.33
1	3a	8	GLY	CA-C	-5.18	1.40	1.51
1	3i	2	ILE	CA-C	5.18	1.59	1.52
1	3i	133	TRP	CA-CB	5.18	1.61	1.53
1	3H	17	PRO	C-N	5.18	1.40	1.33
1	3M	182	LYS	CA-C	5.18	1.59	1.52
1	3O	37	ILE	CA-C	5.18	1.58	1.52
1	4b	73	ILE	CA-CB	5.18	1.60	1.54
1	4c	21	ASN	CA-C	5.18	1.59	1.52
1	4h	130	TYR	N-CA	-5.18	1.40	1.46
1	4t	206	GLY	C-N	-5.18	1.28	1.34
1	4K	167	ARG	CZ-NH2	5.18	1.40	1.33
1	4U	86	VAL	CA-CB	-5.18	1.48	1.54
1	4Y	114	GLN	C-N	5.18	1.40	1.33
1	5l	185	MET	CA-C	-5.18	1.46	1.52
1	5B	163	ASP	CA-C	5.18	1.59	1.52
1	5D	168	PHE	CA-CB	5.18	1.61	1.53
1	65	209	ALA	N-CA	-5.18	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6h	179	GLN	C-O	-5.18	1.17	1.24
1	6x	53	ASN	CA-C	5.18	1.59	1.52
1	6z	150	ILE	CA-CB	-5.18	1.48	1.54
1	6E	161	PHE	CA-CB	5.18	1.61	1.53
1	6S	84	HIS	CG-CD2	-5.18	1.30	1.35
1	73	99	PRO	C-N	5.18	1.40	1.33
1	77	189	LEU	CA-C	5.18	1.59	1.52
1	78	59	VAL	C-N	5.18	1.41	1.33
1	7f	82	ARG	CD-NE	5.18	1.53	1.46
1	7W	72	THR	C-N	5.18	1.39	1.33
1	7Y	140	LYS	C-O	-5.18	1.18	1.24
1	8g	191	VAL	N-CA	5.18	1.52	1.46
1	8t	40	PHE	C-N	5.18	1.40	1.33
1	8y	226	HIS	CG-CD2	5.18	1.41	1.35
1	8C	4	GLN	CA-C	-5.18	1.46	1.53
1	8N	120	HIS	CG-ND1	-5.18	1.32	1.38
1	8R	52	LEU	C-N	-5.18	1.27	1.33
1	8U	203	LYS	CA-CB	5.18	1.61	1.53
1	9d	13	GLN	CA-C	-5.18	1.46	1.52
1	9k	201	ILE	CB-CG1	5.18	1.63	1.53
1	9p	210	THR	C-N	5.18	1.41	1.33
1	9G	184	TRP	CA-CB	5.18	1.61	1.53
1	9X	168	PHE	CA-CB	5.18	1.61	1.53
1	a2	49	PRO	N-CA	-5.18	1.40	1.47
1	af	181	VAL	CA-CB	-5.18	1.48	1.54
1	aE	118	MET	CA-CB	5.18	1.62	1.53
1	17	117	TRP	CA-C	-5.18	1.46	1.52
1	bt	159	GLU	C-N	5.18	1.40	1.33
1	by	32	PHE	CA-CB	5.18	1.61	1.53
1	bH	55	MET	CA-CB	5.18	1.61	1.53
1	c6	197	ASP	CA-CB	5.18	1.61	1.53
1	co	143	ARG	C-N	5.18	1.41	1.34
1	ct	72	THR	C-N	5.18	1.40	1.33
1	cB	213	GLU	CA-C	-5.18	1.46	1.52
1	cO	6	LEU	C-N	5.18	1.40	1.33
1	cS	143	ARG	N-CA	-5.18	1.40	1.46
1	1h	177	ALA	C-O	-5.18	1.17	1.23
1	dB	225	GLY	N-CA	5.18	1.52	1.45
1	dV	124	ILE	CA-C	5.18	1.58	1.52
1	e3	152	ASP	C-N	5.18	1.40	1.33
1	e3	153	ILE	CA-CB	-5.18	1.47	1.54
1	e5	128	GLU	C-N	5.18	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e9	227	LYS	CA-C	5.18	1.59	1.52
1	em	143	ARG	NE-CZ	5.18	1.38	1.33
1	ew	27	VAL	CA-C	5.18	1.60	1.52
1	eK	155	GLN	N-CA	5.18	1.52	1.46
1	eN	20	LEU	CB-CG	5.18	1.63	1.53
1	eU	99	PRO	N-CA	-5.18	1.41	1.47
1	eZ	55	MET	C-N	5.18	1.40	1.33
1	fn	120	HIS	CG-ND1	5.18	1.44	1.38
1	fC	154	ARG	CZ-NH2	-5.18	1.26	1.33
1	1z	92	GLU	C-O	5.18	1.29	1.24
1	fV	120	HIS	CA-C	-5.18	1.46	1.52
1	fX	131	LYS	CA-C	-5.18	1.46	1.52
1	1A	181	VAL	CA-C	-5.18	1.46	1.52
1	g2	82	ARG	CZ-NH2	-5.18	1.26	1.33
1	p	10	MET	CA-CB	5.18	1.60	1.52
1	s	116	GLY	N-CA	5.18	1.52	1.45
1	W	191	VAL	CA-C	-5.18	1.46	1.52
1	gJ	94	GLY	C-N	5.18	1.41	1.33
1	hf	65	ALA	CA-C	5.18	1.59	1.52
1	hl	179	GLN	C-N	5.18	1.40	1.33
1	hu	49	PRO	CA-C	5.18	1.59	1.52
1	iV	221	VAL	C-N	5.18	1.40	1.33
1	jl	46	GLY	C-O	-5.18	1.18	1.24
1	jn	24	VAL	CA-C	-5.18	1.46	1.52
1	1W	230	VAL	CA-CB	-5.18	1.46	1.54
1	jw	228	ALA	CA-C	5.18	1.59	1.52
1	jz	166	ASP	CA-CB	5.18	1.61	1.53
1	jC	219	GLN	C-O	-5.18	1.17	1.23
1	jU	60	GLY	CA-C	-5.18	1.44	1.51
1	jX	167	ARG	C-N	5.18	1.41	1.33
1	21	10	MET	N-CA	5.18	1.52	1.46
1	km	78	ALA	CA-C	5.18	1.59	1.52
1	l6	63	GLN	C-N	5.18	1.40	1.33
1	la	79	GLU	CA-CB	5.18	1.61	1.53
1	lA	125	PRO	C-N	5.18	1.40	1.33
1	2b	16	SER	CA-C	5.18	1.58	1.53
1	2b	143	ARG	NE-CZ	5.18	1.38	1.33
1	2O	81	ASP	C-O	-5.18	1.18	1.24
1	2Q	104	ILE	CA-C	5.18	1.59	1.52
1	41	34	PRO	CA-CB	5.18	1.61	1.53
1	4q	227	LYS	C-O	-5.18	1.18	1.24
1	4z	21	ASN	CA-C	5.18	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	52	9	GLN	CA-C	-5.18	1.45	1.52
1	5o	13	GLN	CA-C	-5.18	1.46	1.52
1	60	220	GLY	N-CA	5.18	1.52	1.45
1	6w	99	PRO	N-CA	-5.18	1.40	1.47
1	6z	18	ARG	CD-NE	5.18	1.53	1.46
1	6P	151	LEU	CA-C	5.18	1.59	1.52
1	7K	85	PRO	CA-C	5.18	1.58	1.52
1	7U	119	THR	N-CA	5.18	1.52	1.46
1	7Z	77	ALA	N-CA	-5.18	1.40	1.46
1	8w	91	ILE	CA-CB	-5.18	1.47	1.54
1	8S	21	ASN	C-O	-5.18	1.18	1.24
1	8S	52	LEU	CA-CB	5.18	1.61	1.53
1	9c	69	LEU	CA-CB	5.18	1.61	1.53
1	9I	226	HIS	ND1-CE1	5.18	1.37	1.32
1	a7	85	PRO	C-N	5.18	1.41	1.33
1	a9	96	MET	C-N	5.18	1.40	1.33
1	a9	190	LEU	CA-CB	5.18	1.61	1.53
1	ai	151	LEU	CA-C	5.18	1.59	1.52
1	aG	23	TRP	CA-C	-5.18	1.46	1.52
1	15	1	PRO	CA-C	-5.18	1.42	1.52
1	15	184	TRP	NE1-CE2	-5.18	1.31	1.37
1	bj	135	ILE	CA-C	5.18	1.59	1.52
1	bk	110	THR	CA-CB	5.18	1.61	1.53
1	bu	190	LEU	CB-CG	5.18	1.63	1.53
1	bA	212	GLU	CA-CB	-5.18	1.45	1.53
1	c2	23	TRP	C-N	5.18	1.40	1.33
1	c4	193	ASN	CA-C	5.18	1.59	1.52
1	ci	117	TRP	CA-C	-5.18	1.46	1.52
1	cj	149	SER	CA-C	5.18	1.59	1.52
1	cF	125	PRO	CA-C	5.18	1.57	1.53
1	d5	162	ARG	N-CA	5.18	1.52	1.46
1	dn	203	LYS	C-N	5.18	1.41	1.33
1	dQ	115	ILE	N-CA	-5.18	1.40	1.46
1	ej	94	GLY	N-CA	5.18	1.52	1.45
1	ev	116	GLY	CA-C	-5.18	1.45	1.52
1	eA	9	GLN	CA-CB	5.18	1.61	1.53
1	eC	69	LEU	CA-C	5.18	1.59	1.52
1	eL	201	ILE	N-CA	-5.18	1.40	1.46
1	eO	143	ARG	NE-CZ	5.18	1.38	1.33
1	1t	172	LEU	N-CA	5.18	1.53	1.46
1	eS	227	LYS	N-CA	5.18	1.52	1.46
1	eW	28	GLU	N-CA	-5.18	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fB	157	PRO	N-CA	5.18	1.54	1.47
1	n	84	HIS	CA-C	5.18	1.58	1.53
1	gw	76	GLU	CA-C	-5.18	1.46	1.52
1	gG	15	ILE	CA-CB	5.18	1.60	1.54
1	gY	97	ARG	C-O	-5.18	1.17	1.23
1	h0	8	GLY	C-N	5.18	1.40	1.33
1	hf	28	GLU	CA-CB	5.18	1.61	1.53
1	hi	31	ALA	C-N	5.18	1.41	1.33
1	hl	193	ASN	CA-C	5.18	1.59	1.52
1	1J	46	GLY	CA-C	-5.18	1.44	1.51
1	hG	161	PHE	N-CA	5.18	1.52	1.46
1	hO	211	LEU	CA-CB	5.18	1.61	1.53
1	hQ	135	ILE	C-N	5.18	1.41	1.33
1	hZ	87	HIS	ND1-CE1	5.18	1.37	1.32
1	i4	185	MET	N-CA	5.18	1.52	1.46
1	j1	193	ASN	C-N	5.18	1.40	1.33
1	jd	36	VAL	CA-CB	-5.18	1.48	1.54
1	jv	182	LYS	CA-C	5.18	1.59	1.52
1	jO	59	VAL	CA-C	5.18	1.58	1.52
1	jW	125	PRO	CA-CB	5.18	1.56	1.53
1	kv	164	TYR	CZ-OH	5.18	1.49	1.38
1	kW	139	ASN	CA-CB	5.18	1.61	1.53
1	26	180	GLU	CA-CB	5.18	1.61	1.53
1	la	114	GLN	CA-CB	5.18	1.61	1.53
1	lo	79	GLU	C-O	-5.18	1.18	1.24
1	ly	84	HIS	ND1-CE1	5.18	1.37	1.32
1	lF	184	TRP	NE1-CE2	5.18	1.43	1.37
1	lL	156	GLY	CA-C	5.18	1.59	1.51
1	2s	21	ASN	N-CA	-5.18	1.40	1.46
1	2y	228	ALA	C-O	-5.18	1.17	1.24
1	2A	206	GLY	C-N	5.18	1.38	1.33
1	2D	191	VAL	CA-C	5.18	1.59	1.52
1	2V	200	THR	CA-C	-5.18	1.46	1.52
1	3h	118	MET	N-CA	5.18	1.52	1.46
1	3x	223	GLY	N-CA	5.18	1.51	1.44
1	3F	84	HIS	ND1-CE1	5.18	1.37	1.32
1	3Q	79	GLU	CA-C	-5.18	1.46	1.52
1	4f	84	HIS	CG-ND1	-5.18	1.32	1.38
1	4n	33	SER	CA-CB	5.18	1.61	1.53
1	4r	12	HIS	ND1-CE1	5.18	1.37	1.32
1	4Y	36	VAL	C-N	5.18	1.39	1.33
1	52	13	GLN	CD-NE2	5.18	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5p	155	GLN	N-CA	-5.18	1.40	1.46
1	5z	170	LYS	N-CA	5.18	1.52	1.46
1	5C	19	THR	CA-C	-5.18	1.46	1.52
1	5G	220	GLY	C-N	5.18	1.40	1.33
1	5U	228	ALA	CA-CB	5.18	1.60	1.53
1	65	207	PRO	CA-C	5.18	1.58	1.52
1	6Q	117	TRP	CA-CB	5.18	1.62	1.53
1	6U	80	TRP	CA-CB	5.18	1.61	1.53
1	7e	184	TRP	CA-C	5.18	1.59	1.52
1	7D	172	LEU	C-N	5.18	1.41	1.33
1	7M	44	SER	N-CA	5.18	1.52	1.46
1	7Q	202	LEU	CA-C	5.18	1.59	1.52
1	8D	120	HIS	CB-CG	-5.18	1.43	1.50
1	8H	91	ILE	N-CA	5.18	1.52	1.46
1	8T	172	LEU	CA-CB	5.18	1.61	1.53
1	8V	220	GLY	C-N	5.18	1.40	1.33
1	8W	121	ASN	N-CA	5.18	1.53	1.46
1	97	58	THR	N-CA	5.18	1.52	1.46
1	9b	11	VAL	CA-C	-5.18	1.46	1.52
1	9m	91	ILE	CB-CG1	5.18	1.63	1.53
1	9s	55	MET	CA-C	5.18	1.59	1.52
1	9s	157	PRO	N-CA	5.18	1.54	1.47
1	9N	124	ILE	CA-CB	-5.18	1.48	1.53
1	9S	80	TRP	NE1-CE2	-5.18	1.31	1.37
1	9V	164	TYR	CA-CB	5.18	1.61	1.53
1	Z	95	GLN	CA-C	5.18	1.58	1.52
1	a0	130	TYR	CA-C	-5.18	1.46	1.52
1	a4	116	GLY	N-CA	5.18	1.52	1.45
1	au	23	TRP	CZ2-CH2	5.18	1.47	1.37
1	aB	207	PRO	C-N	5.18	1.40	1.33
1	14	216	THR	N-CA	-5.18	1.39	1.46
1	aP	172	LEU	CA-CB	5.18	1.61	1.53
1	b0	141	ILE	CA-CB	-5.18	1.48	1.54
1	b2	107	THR	N-CA	5.18	1.52	1.46
1	b7	99	PRO	CA-C	5.18	1.59	1.52
1	b8	9	GLN	N-CA	-5.18	1.39	1.46
1	ba	10	MET	SD-CE	5.18	1.92	1.79
1	bp	165	VAL	CA-CB	-5.18	1.48	1.54
1	bx	82	ARG	N-CA	-5.18	1.40	1.46
1	bz	153	ILE	CA-C	-5.18	1.47	1.53
1	bC	26	VAL	C-N	5.18	1.40	1.33
1	bC	73	ILE	CB-CG1	5.18	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bT	209	ALA	CA-C	5.18	1.59	1.52
1	cl	125	PRO	C-N	5.18	1.40	1.33
1	cn	90	PRO	CA-CB	5.18	1.60	1.53
1	cy	46	GLY	N-CA	5.18	1.53	1.45
1	1g	78	ALA	CA-C	-5.18	1.46	1.52
1	cR	142	VAL	CA-CB	-5.18	1.47	1.54
1	d4	193	ASN	N-CA	5.18	1.52	1.46
1	dx	226	HIS	ND1-CE1	5.18	1.37	1.32
1	dK	226	HIS	C-O	-5.18	1.18	1.24
1	dO	201	ILE	CA-C	5.18	1.59	1.52
1	ej	147	PRO	C-N	5.18	1.40	1.33
1	eG	172	LEU	N-CA	5.18	1.52	1.46
1	eZ	191	VAL	CA-CB	-5.18	1.48	1.54
1	f4	54	THR	CA-C	5.18	1.59	1.52
1	f5	114	GLN	CA-C	5.18	1.59	1.52
1	f7	154	ARG	NE-CZ	5.18	1.38	1.33
1	fl	191	VAL	CA-CB	-5.18	1.47	1.54
1	fB	125	PRO	CA-C	-5.18	1.45	1.52
1	fX	151	LEU	C-N	5.18	1.40	1.33
1	g6	114	GLN	C-N	-5.18	1.27	1.33
1	d	177	ALA	N-CA	5.18	1.52	1.45
1	2	164	TYR	C-N	5.18	1.40	1.33
1	Q	125	PRO	CA-CB	5.18	1.59	1.53
1	5	164	TYR	CA-CB	5.18	1.61	1.53
1	gf	13	GLN	CA-CB	5.17	1.62	1.53
1	gi	155	GLN	CA-CB	5.17	1.61	1.53
1	gq	179	GLN	CA-C	5.17	1.59	1.52
1	gB	176	GLN	C-N	5.17	1.40	1.33
1	gC	188	THR	N-CA	5.17	1.52	1.46
1	gN	148	THR	CA-C	-5.17	1.45	1.52
1	gQ	230	VAL	CA-C	-5.17	1.45	1.52
1	hh	80	TRP	N-CA	-5.17	1.40	1.46
1	hi	21	ASN	N-CA	-5.17	1.40	1.46
1	hj	184	TRP	CA-CB	5.17	1.61	1.53
1	hm	107	THR	N-CA	5.17	1.53	1.45
1	hs	187	GLU	CB-CG	5.17	1.68	1.52
1	1K	24	VAL	CA-CB	5.17	1.60	1.54
1	hG	198	CYS	N-CA	-5.17	1.39	1.46
1	hX	217	ALA	CA-C	-5.17	1.46	1.52
1	hZ	172	LEU	C-N	5.17	1.40	1.33
1	i5	219	GLN	CA-CB	5.17	1.62	1.53
1	in	228	ALA	CA-C	5.17	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iA	68	MET	CA-CB	-5.17	1.45	1.53
1	iD	43	LEU	N-CA	-5.17	1.39	1.46
1	iG	31	ALA	CA-C	-5.17	1.47	1.53
1	jk	197	ASP	CA-CB	5.17	1.61	1.53
1	jl	152	ASP	C-N	5.17	1.40	1.33
1	ju	228	ALA	CA-CB	5.17	1.61	1.53
1	jx	143	ARG	N-CA	-5.17	1.40	1.46
1	jI	84	HIS	CB-CG	5.17	1.57	1.50
1	jM	32	PHE	CA-CB	5.17	1.60	1.53
1	jR	149	SER	N-CA	-5.17	1.39	1.45
1	k7	31	ALA	CA-C	-5.17	1.45	1.52
1	kj	88	ALA	C-O	-5.17	1.17	1.23
1	kl	50	GLN	N-CA	-5.17	1.40	1.46
1	kR	119	THR	CA-CB	5.17	1.60	1.53
1	kV	168	PHE	N-CA	5.17	1.52	1.46
1	l1	84	HIS	ND1-CE1	5.17	1.37	1.32
1	l3	172	LEU	CA-CB	5.17	1.62	1.53
1	lb	167	ARG	CZ-NH2	-5.17	1.26	1.33
1	lb	211	LEU	N-CA	5.17	1.52	1.46
1	lh	17	PRO	N-CD	-5.17	1.40	1.47
1	lh	53	ASN	C-N	5.17	1.40	1.33
1	lj	73	ILE	CA-C	-5.17	1.46	1.52
1	2E	5	ASN	N-CA	-5.17	1.39	1.45
1	2Y	7	GLN	CA-CB	5.17	1.61	1.53
1	37	76	GLU	C-O	5.17	1.30	1.24
1	3m	120	HIS	CG-ND1	5.17	1.44	1.38
1	3u	85	PRO	C-N	-5.17	1.27	1.33
1	3A	168	PHE	C-O	-5.17	1.17	1.24
1	3R	75	GLU	C-N	-5.17	1.26	1.33
1	3S	62	HIS	ND1-CE1	5.17	1.37	1.32
1	4d	49	PRO	CA-C	-5.17	1.44	1.52
1	4g	129	ILE	N-CA	5.17	1.52	1.46
1	4n	68	MET	CA-CB	5.17	1.61	1.53
1	4p	87	HIS	ND1-CE1	5.17	1.37	1.32
1	4x	214	MET	N-CA	-5.17	1.40	1.46
1	4z	62	HIS	ND1-CE1	5.17	1.37	1.32
1	4D	136	LEU	C-O	-5.17	1.18	1.24
1	52	66	MET	C-O	-5.17	1.18	1.24
1	5a	95	GLN	CA-C	-5.17	1.46	1.52
1	5g	117	TRP	CA-CB	5.17	1.61	1.53
1	5l	18	ARG	CD-NE	5.17	1.53	1.46
1	5l	70	LYS	CA-CB	5.17	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5q	26	VAL	N-CA	-5.17	1.39	1.46
1	5B	161	PHE	CA-C	5.17	1.59	1.52
1	5S	196	PRO	N-CA	5.17	1.54	1.47
1	5V	96	MET	N-CA	-5.17	1.39	1.45
1	66	97	ARG	CA-C	5.17	1.59	1.52
1	69	177	ALA	N-CA	5.17	1.52	1.45
1	6a	70	LYS	CA-CB	5.17	1.61	1.53
1	6h	117	TRP	C-N	5.17	1.40	1.33
1	6k	62	HIS	CE1-NE2	5.17	1.37	1.32
1	6l	91	ILE	N-CA	-5.17	1.40	1.46
1	6G	130	TYR	CA-C	-5.17	1.46	1.52
1	6M	182	LYS	CA-C	-5.17	1.45	1.52
1	7h	60	GLY	N-CA	5.17	1.51	1.45
1	7n	101	GLY	CA-C	5.17	1.57	1.52
1	7o	105	ALA	N-CA	-5.17	1.38	1.46
1	7Q	71	GLU	N-CA	-5.17	1.40	1.46
1	7S	132	ARG	CD-NE	5.17	1.53	1.46
1	8m	56	LEU	N-CA	-5.17	1.40	1.46
1	8p	9	GLN	N-CA	5.17	1.52	1.46
1	8E	135	ILE	CA-C	-5.17	1.46	1.52
1	8H	20	LEU	C-N	5.17	1.41	1.33
1	8I	148	THR	N-CA	-5.17	1.39	1.46
1	8J	90	PRO	CA-CB	-5.17	1.46	1.53
1	8T	171	THR	C-O	5.17	1.30	1.24
1	8X	12	HIS	ND1-CE1	5.17	1.37	1.32
1	8Y	18	ARG	C-O	-5.17	1.18	1.24
1	9h	12	HIS	ND1-CE1	5.17	1.37	1.32
1	9M	150	ILE	CA-CB	5.17	1.60	1.54
1	9P	142	VAL	N-CA	-5.17	1.40	1.46
1	9R	79	GLU	N-CA	-5.17	1.40	1.46
1	a7	55	MET	CA-C	5.17	1.59	1.52
1	a9	153	ILE	CA-C	5.17	1.58	1.52
1	a9	199	LYS	CA-CB	5.17	1.61	1.53
1	ad	95	GLN	CA-CB	-5.17	1.45	1.53
1	ak	43	LEU	C-N	5.17	1.40	1.33
1	aA	13	GLN	C-O	-5.17	1.17	1.23
1	13	18	ARG	CA-CB	5.17	1.61	1.53
1	aF	17	PRO	CA-CB	5.17	1.61	1.53
1	aR	161	PHE	C-N	5.17	1.40	1.33
1	aT	97	ARG	C-O	-5.17	1.17	1.23
1	b7	109	SER	N-CA	5.17	1.51	1.45
1	bj	31	ALA	C-N	-5.17	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	br	189	LEU	CA-CB	5.17	1.61	1.53
1	bK	149	SER	CA-CB	5.17	1.61	1.53
1	bT	15	ILE	CA-C	5.17	1.60	1.52
1	bW	23	TRP	NE1-CE2	5.17	1.43	1.37
1	cr	9	GLN	CA-CB	5.17	1.61	1.53
1	cH	53	ASN	C-N	5.17	1.40	1.33
1	cQ	113	GLU	N-CA	5.17	1.52	1.46
1	d4	8	GLY	C-N	5.17	1.40	1.33
1	d5	73	ILE	CA-C	5.17	1.59	1.52
1	d7	78	ALA	C-N	5.17	1.41	1.33
1	da	129	ILE	CA-C	-5.17	1.46	1.52
1	dm	14	ALA	N-CA	-5.17	1.39	1.45
1	dq	197	ASP	CA-C	5.17	1.59	1.52
1	dt	44	SER	N-CA	5.17	1.52	1.46
1	dD	98	GLU	CA-C	5.17	1.59	1.52
1	dL	80	TRP	NE1-CE2	5.17	1.43	1.37
1	dZ	229	ARG	CD-NE	5.17	1.53	1.46
1	ep	87	HIS	CE1-NE2	-5.17	1.27	1.32
1	es	167	ARG	CD-NE	5.17	1.53	1.46
1	et	132	ARG	NE-CZ	-5.17	1.27	1.33
1	eS	63	GLN	CA-C	5.17	1.59	1.52
1	fh	202	LEU	N-CA	-5.17	1.40	1.46
1	fr	66	MET	CA-CB	5.17	1.61	1.53
1	ft	26	VAL	C-N	5.17	1.40	1.33
1	fA	139	ASN	CA-C	5.17	1.59	1.52
1	fF	87	HIS	C-O	-5.17	1.17	1.23
1	fK	141	ILE	CA-CB	5.17	1.59	1.54
1	fL	63	GLN	C-N	-5.17	1.26	1.33
1	fR	143	ARG	CD-NE	5.17	1.53	1.46
1	g1	100	ARG	CZ-NH1	-5.17	1.25	1.32
1	z	92	GLU	CA-C	5.17	1.58	1.52
1	B	40	PHE	C-N	5.17	1.41	1.33
1	gd	1	PRO	N-CD	5.17	1.54	1.47
1	gV	159	GLU	CA-C	5.17	1.58	1.52
1	hB	153	ILE	CA-C	5.17	1.59	1.52
1	hI	113	GLU	N-CA	5.17	1.52	1.46
1	i4	226	HIS	CE1-NE2	-5.17	1.27	1.32
1	ik	87	HIS	ND1-CE1	5.17	1.37	1.32
1	ir	42	ALA	C-N	5.17	1.41	1.34
1	jl	49	PRO	CA-CB	-5.17	1.46	1.53
1	jy	15	ILE	CA-CB	5.17	1.59	1.54
1	jN	137	GLY	CA-C	-5.17	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jN	179	GLN	C-O	-5.17	1.18	1.24
1	k4	215	MET	CA-C	5.17	1.59	1.52
1	kb	216	THR	N-CA	5.17	1.52	1.46
1	kB	42	ALA	C-O	-5.17	1.18	1.24
1	kJ	202	LEU	CB-CG	5.17	1.63	1.53
1	2a	127	GLY	C-N	5.17	1.41	1.33
1	2o	165	VAL	CA-C	-5.17	1.46	1.52
1	2s	82	ARG	NE-CZ	5.17	1.38	1.33
1	2w	80	TRP	C-N	5.17	1.40	1.33
1	2L	89	GLY	N-CA	5.17	1.51	1.44
1	2W	100	ARG	CZ-NH1	-5.17	1.25	1.32
1	44	180	GLU	N-CA	-5.17	1.40	1.46
1	4d	21	ASN	CA-C	5.17	1.59	1.52
1	5K	85	PRO	C-O	-5.17	1.17	1.23
1	6s	112	GLN	CA-CB	5.17	1.61	1.53
1	6v	144	MET	C-N	5.17	1.41	1.33
1	6x	164	TYR	C-N	5.17	1.40	1.33
1	6A	227	LYS	N-CA	-5.17	1.40	1.46
1	7i	201	ILE	C-N	5.17	1.41	1.33
1	7q	45	GLU	CA-C	5.17	1.59	1.52
1	7H	188	THR	CB-OG1	-5.17	1.35	1.43
1	8i	120	HIS	CA-CB	5.17	1.62	1.53
1	97	187	GLU	CA-C	5.17	1.59	1.52
1	9o	103	ASP	CA-C	5.17	1.59	1.52
1	ar	195	ASN	CA-C	5.17	1.58	1.53
1	aB	173	ARG	CA-CB	5.17	1.62	1.53
1	aU	162	ARG	N-CA	-5.17	1.40	1.46
1	b5	4	GLN	CA-CB	5.17	1.61	1.53
1	b9	89	GLY	CA-C	-5.17	1.44	1.51
1	bg	49	PRO	CA-CB	5.17	1.61	1.53
1	bx	9	GLN	N-CA	-5.17	1.39	1.46
1	by	12	HIS	ND1-CE1	5.17	1.37	1.32
1	bG	118	MET	C-N	5.17	1.41	1.33
1	cK	128	GLU	CA-C	5.17	1.59	1.52
1	dF	131	LYS	C-N	5.17	1.40	1.33
1	dO	215	MET	C-N	5.17	1.40	1.33
1	1t	154	ARG	CD-NE	5.17	1.53	1.46
1	f4	2	ILE	N-CA	5.17	1.52	1.46
1	fE	108	THR	CA-C	-5.17	1.45	1.52
1	1A	229	ARG	CD-NE	5.17	1.53	1.46
1	fY	97	ARG	CD-NE	5.17	1.53	1.46
1	g3	36	VAL	C-N	5.17	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	m	90	PRO	CA-C	5.17	1.59	1.52
1	z	56	LEU	CB-CG	5.17	1.63	1.53
1	E	161	PHE	CB-CG	5.17	1.62	1.50
1	K	203	LYS	CA-C	5.17	1.59	1.52
1	N	58	THR	C-N	5.17	1.40	1.33
1	R	100	ARG	N-CA	5.17	1.52	1.45
1	5	149	SER	CA-CB	5.17	1.62	1.53
1	8	120	HIS	CA-CB	5.17	1.61	1.53
1	gm	83	LEU	N-CA	-5.17	1.40	1.46
1	gw	163	ASP	N-CA	5.17	1.52	1.46
1	gG	55	MET	C-N	5.17	1.41	1.33
1	h6	164	TYR	CA-C	-5.17	1.46	1.52
1	hc	93	PRO	C-N	5.17	1.40	1.33
1	hj	223	GLY	N-CA	5.17	1.51	1.44
1	hm	50	GLN	C-N	5.17	1.41	1.33
1	ht	162	ARG	CD-NE	5.17	1.53	1.46
1	hK	210	THR	CA-CB	5.17	1.61	1.53
1	if	219	GLN	CA-C	5.17	1.57	1.52
1	ir	217	ALA	N-CA	-5.17	1.39	1.45
1	1Q	64	ALA	C-N	-5.17	1.27	1.33
1	iz	61	GLY	N-CA	5.17	1.51	1.45
1	iA	169	TYR	C-O	-5.17	1.18	1.24
1	iG	159	GLU	CA-CB	5.17	1.61	1.53
1	iX	45	GLU	CA-CB	5.17	1.61	1.53
1	iY	87	HIS	CA-CB	5.17	1.62	1.53
1	1X	154	ARG	CD-NE	5.17	1.53	1.46
1	jG	65	ALA	N-CA	-5.17	1.40	1.46
1	jJ	7	GLN	CA-C	-5.17	1.46	1.52
1	jW	71	GLU	C-N	5.17	1.41	1.33
1	21	62	HIS	CE1-NE2	-5.17	1.27	1.32
1	24	2	ILE	C-N	5.17	1.40	1.33
1	kP	41	SER	CA-CB	5.17	1.61	1.53
1	l4	103	ASP	CA-CB	5.17	1.61	1.53
1	l6	66	MET	N-CA	-5.17	1.40	1.46
1	26	69	LEU	CA-C	5.17	1.59	1.52
1	la	143	ARG	CA-CB	5.17	1.61	1.53
1	ls	55	MET	C-O	5.17	1.30	1.24
1	lw	47	ALA	CA-CB	5.17	1.61	1.53
1	lI	141	ILE	CA-C	-5.17	1.46	1.52
1	lQ	100	ARG	CA-C	5.17	1.60	1.53
1	2j	27	VAL	CA-C	-5.17	1.46	1.52
1	2s	167	ARG	CZ-NH1	-5.17	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2w	201	ILE	CA-C	5.17	1.59	1.52
1	2x	45	GLU	CA-CB	5.17	1.59	1.53
1	2W	180	GLU	CA-C	5.17	1.59	1.52
1	2W	225	GLY	C-N	5.17	1.40	1.33
1	3F	219	GLN	CA-C	5.17	1.59	1.52
1	3K	110	THR	CA-CB	5.17	1.61	1.53
1	3X	91	ILE	N-CA	-5.17	1.40	1.46
1	4I	94	GLY	CA-C	-5.17	1.45	1.51
1	54	90	PRO	C-N	5.17	1.40	1.33
1	55	165	VAL	CA-C	5.17	1.59	1.52
1	5d	189	LEU	C-N	5.17	1.41	1.33
1	5f	182	LYS	C-O	5.17	1.30	1.24
1	5g	178	SER	N-CA	5.17	1.52	1.45
1	5p	213	GLU	CA-CB	5.17	1.61	1.53
1	5s	98	GLU	CA-CB	5.17	1.62	1.53
1	5v	201	ILE	CA-CB	-5.17	1.48	1.54
1	5y	56	LEU	C-N	5.17	1.41	1.33
1	60	77	ALA	N-CA	-5.17	1.40	1.46
1	64	113	GLU	CA-CB	5.17	1.61	1.53
1	6r	50	GLN	C-N	5.17	1.40	1.33
1	6J	137	GLY	C-N	5.17	1.40	1.33
1	6U	125	PRO	N-CA	5.17	1.53	1.47
1	6V	168	PHE	CA-CB	5.17	1.61	1.53
1	73	219	GLN	CA-C	5.17	1.59	1.52
1	78	31	ALA	CA-C	5.17	1.59	1.52
1	79	43	LEU	CA-CB	5.17	1.61	1.53
1	7j	182	LYS	CA-C	5.17	1.59	1.52
1	7m	63	GLN	CA-CB	5.17	1.61	1.53
1	7t	115	ILE	C-N	5.17	1.41	1.33
1	7t	180	GLU	CA-CB	5.17	1.61	1.53
1	7B	79	GLU	N-CA	-5.17	1.40	1.46
1	7N	130	TYR	N-CA	5.17	1.52	1.46
1	7R	58	THR	CA-C	5.17	1.59	1.52
1	8a	144	MET	N-CA	-5.17	1.40	1.46
1	8C	25	LYS	C-N	5.17	1.40	1.33
1	8Q	96	MET	C-N	5.17	1.40	1.33
1	8Q	198	CYS	CA-C	-5.17	1.45	1.52
1	9p	33	SER	N-CA	5.17	1.50	1.45
1	9E	213	GLU	CA-CB	5.17	1.61	1.53
1	9I	104	ILE	CA-CB	-5.17	1.48	1.54
1	9O	205	LEU	CA-CB	5.17	1.61	1.53
1	am	23	TRP	NE1-CE2	5.17	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aK	123	PRO	C-N	5.17	1.37	1.33
1	aL	109	SER	N-CA	-5.17	1.39	1.46
1	aP	205	LEU	N-CA	5.17	1.52	1.46
1	b6	46	GLY	CA-C	-5.17	1.46	1.51
1	bm	2	ILE	CA-C	5.17	1.59	1.52
1	bm	90	PRO	CA-CB	5.17	1.60	1.53
1	bp	130	TYR	CA-C	5.17	1.59	1.52
1	bs	20	LEU	C-N	5.17	1.40	1.33
1	bu	2	ILE	CA-C	5.17	1.58	1.52
1	c4	164	TYR	CA-CB	5.17	1.61	1.53
1	1c	58	THR	CA-CB	5.17	1.62	1.53
1	cf	30	LYS	CA-C	-5.17	1.46	1.52
1	cu	61	GLY	N-CA	5.17	1.51	1.45
1	cw	154	ARG	CA-CB	5.17	1.61	1.53
1	1f	97	ARG	CA-C	5.17	1.60	1.53
1	d1	163	ASP	CA-CB	5.17	1.61	1.53
1	d5	115	ILE	CA-CB	5.17	1.60	1.54
1	d8	91	ILE	CA-C	-5.17	1.47	1.52
1	dC	1	PRO	C-N	5.17	1.40	1.33
1	dH	148	THR	N-CA	5.17	1.52	1.46
1	e2	88	ALA	CA-C	-5.17	1.49	1.52
1	eb	217	ALA	C-N	5.17	1.41	1.33
1	1p	120	HIS	CG-ND1	-5.17	1.32	1.38
1	er	111	LEU	C-N	5.17	1.40	1.33
1	et	160	PRO	C-N	-5.17	1.27	1.33
1	eD	34	PRO	C-O	-5.17	1.17	1.24
1	1u	141	ILE	CA-CB	-5.17	1.48	1.54
1	fi	110	THR	CA-C	-5.17	1.46	1.53
1	fr	128	GLU	CA-CB	5.17	1.61	1.53
1	fz	93	PRO	CA-C	5.17	1.58	1.52
1	fD	129	ILE	CB-CG1	5.17	1.63	1.53
1	1z	75	GLU	CA-CB	5.17	1.61	1.53
1	fW	186	THR	N-CA	5.17	1.52	1.46
1	i	166	ASP	CA-CB	5.17	1.61	1.53
1	w	57	ASN	CA-CB	5.17	1.62	1.53
1	4	58	THR	N-CA	5.17	1.52	1.46
1	gc	89	GLY	CA-C	-5.17	1.44	1.51
1	gP	190	LEU	C-N	5.17	1.39	1.33
1	gW	231	LEU	CB-CG	5.17	1.63	1.53
1	hR	226	HIS	N-CA	-5.17	1.39	1.46
1	hS	175	GLU	CA-CB	5.17	1.61	1.53
1	hU	74	ASN	CA-C	-5.17	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i0	157	PRO	CA-C	5.17	1.60	1.52
1	i0	184	TRP	N-CA	5.17	1.52	1.46
1	it	62	HIS	CG-ND1	-5.17	1.32	1.38
1	iV	231	LEU	CA-CB	5.17	1.63	1.53
1	jg	115	ILE	CA-C	5.17	1.59	1.52
1	jl	204	ALA	C-O	-5.17	1.18	1.24
1	jK	12	HIS	ND1-CE1	5.17	1.37	1.32
1	jN	42	ALA	N-CA	-5.17	1.40	1.46
1	k5	224	PRO	C-N	5.17	1.40	1.33
1	kF	76	GLU	CA-C	5.17	1.59	1.52
1	kH	101	GLY	C-N	5.17	1.40	1.33
1	kY	169	TYR	C-O	-5.17	1.18	1.24
1	l7	120	HIS	CA-C	-5.17	1.46	1.52
1	l8	226	HIS	ND1-CE1	5.17	1.37	1.32
1	2x	39	MET	CA-C	5.17	1.59	1.52
1	2J	12	HIS	ND1-CE1	5.17	1.37	1.32
1	2Y	80	TRP	CA-CB	5.17	1.61	1.53
1	3F	195	ASN	CA-C	5.17	1.58	1.52
1	3M	209	ALA	CA-C	5.17	1.59	1.52
1	42	63	GLN	C-N	5.17	1.40	1.33
1	44	196	PRO	CA-CB	5.17	1.61	1.53
1	4g	53	ASN	N-CA	-5.17	1.40	1.46
1	4M	11	VAL	N-CA	5.17	1.52	1.46
1	5c	98	GLU	CA-CB	5.17	1.61	1.52
1	5L	107	THR	CA-C	-5.17	1.45	1.52
1	6v	87	HIS	ND1-CE1	5.17	1.37	1.32
1	6J	66	MET	CA-CB	5.17	1.61	1.53
1	6N	189	LEU	CA-C	5.17	1.57	1.52
1	6Q	97	ARG	CD-NE	5.17	1.53	1.46
1	7q	2	ILE	CB-CG1	5.17	1.63	1.53
1	7H	150	ILE	C-N	5.17	1.41	1.33
1	87	172	LEU	CB-CG	5.17	1.63	1.53
1	8u	91	ILE	C-N	5.17	1.41	1.33
1	94	31	ALA	N-CA	5.17	1.52	1.46
1	9m	76	GLU	N-CA	5.17	1.52	1.46
1	9L	113	GLU	C-N	5.17	1.40	1.33
1	a2	201	ILE	CB-CG1	5.17	1.63	1.53
1	ad	167	ARG	CA-CB	5.17	1.61	1.53
1	b3	149	SER	CA-CB	5.17	1.60	1.53
1	be	158	LYS	CA-C	-5.17	1.46	1.52
1	by	186	THR	CA-C	-5.17	1.46	1.52
1	cc	218	CYS	C-N	5.17	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cd	89	GLY	N-CA	5.17	1.50	1.43
1	cq	206	GLY	C-O	-5.17	1.17	1.24
1	cw	226	HIS	CD2-NE2	5.17	1.43	1.37
1	1f	75	GLU	CA-C	-5.17	1.46	1.52
1	cX	213	GLU	CA-C	5.17	1.59	1.52
1	db	11	VAL	C-N	5.17	1.40	1.33
1	dw	55	MET	CA-CB	5.17	1.61	1.53
1	dw	142	VAL	N-CA	5.17	1.52	1.46
1	dP	17	PRO	N-CD	-5.17	1.40	1.47
1	1o	162	ARG	CA-CB	5.17	1.61	1.53
1	em	77	ALA	CA-C	-5.17	1.46	1.52
1	eo	214	MET	CA-C	5.17	1.59	1.52
1	eU	40	PHE	N-CA	5.17	1.52	1.46
1	fc	71	GLU	CA-C	5.17	1.59	1.52
1	fU	207	PRO	CA-CB	5.17	1.62	1.53
1	ga	207	PRO	C-N	5.17	1.40	1.33
1	hb	121	ASN	CA-CB	5.17	1.61	1.53
1	hn	98	GLU	C-N	5.17	1.39	1.33
1	ho	97	ARG	N-CA	5.17	1.52	1.45
1	hx	76	GLU	CA-C	5.17	1.59	1.52
1	hx	190	LEU	CA-C	5.17	1.59	1.52
1	hP	29	GLU	N-CA	5.17	1.52	1.46
1	i6	153	ILE	C-N	5.17	1.40	1.33
1	1P	191	VAL	CA-CB	-5.17	1.49	1.54
1	iE	149	SER	CA-C	5.17	1.59	1.52
1	iP	135	ILE	CA-C	-5.17	1.46	1.52
1	jb	39	MET	CA-C	5.17	1.59	1.52
1	1X	36	VAL	C-N	5.17	1.41	1.34
1	1X	201	ILE	CA-CB	5.17	1.61	1.54
1	1Y	12	HIS	ND1-CE1	5.17	1.37	1.32
1	ka	171	THR	N-CA	5.17	1.52	1.45
1	ky	136	LEU	C-N	5.17	1.40	1.33
1	kN	125	PRO	CA-C	-5.17	1.48	1.53
1	kN	220	GLY	CA-C	-5.17	1.44	1.52
1	kP	103	ASP	C-N	5.17	1.40	1.33
1	kS	73	ILE	CA-C	5.17	1.59	1.52
1	l6	66	MET	C-O	-5.17	1.18	1.24
1	ln	202	LEU	N-CA	-5.17	1.39	1.46
1	lz	101	GLY	CA-C	-5.17	1.46	1.51
1	lB	199	LYS	N-CA	5.17	1.52	1.46
1	2a	115	ILE	CA-CB	-5.17	1.48	1.54
1	2j	18	ARG	CZ-NH2	-5.17	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2q	18	ARG	C-N	5.17	1.40	1.33
1	32	212	GLU	C-N	5.17	1.40	1.33
1	36	23	TRP	N-CA	-5.17	1.40	1.46
1	3r	12	HIS	ND1-CE1	5.17	1.37	1.32
1	3v	127	GLY	C-N	5.17	1.40	1.33
1	3A	56	LEU	C-O	5.17	1.30	1.24
1	3J	172	LEU	N-CA	-5.17	1.40	1.46
1	3W	229	ARG	CA-C	5.17	1.59	1.52
1	44	218	CYS	C-N	5.17	1.40	1.33
1	45	7	GLN	C-O	-5.17	1.17	1.24
1	4b	176	GLN	CA-CB	5.17	1.59	1.53
1	4n	2	ILE	C-O	-5.17	1.18	1.24
1	4B	80	TRP	CZ2-CH2	5.17	1.47	1.37
1	4K	33	SER	C-O	5.17	1.29	1.24
1	4K	99	PRO	CA-CB	-5.17	1.46	1.53
1	4L	208	ALA	C-N	5.17	1.40	1.33
1	4M	130	TYR	CA-CB	5.17	1.61	1.53
1	4X	139	ASN	CA-CB	5.17	1.61	1.53
1	5c	14	ALA	C-O	5.17	1.30	1.23
1	5t	23	TRP	CA-C	5.17	1.59	1.52
1	5V	62	HIS	CA-CB	5.17	1.61	1.53
1	5X	1	PRO	N-CD	5.17	1.54	1.47
1	5Z	195	ASN	C-N	5.17	1.40	1.34
1	68	185	MET	CA-CB	5.17	1.61	1.53
1	6x	33	SER	CA-C	5.17	1.57	1.52
1	6D	95	GLN	N-CA	-5.17	1.39	1.46
1	6L	59	VAL	CA-C	5.17	1.58	1.52
1	6S	36	VAL	C-N	5.17	1.41	1.34
1	6Z	228	ALA	C-N	5.17	1.40	1.33
1	74	226	HIS	ND1-CE1	5.17	1.37	1.32
1	75	92	GLU	C-O	5.17	1.29	1.24
1	7b	186	THR	N-CA	5.17	1.52	1.46
1	7j	121	ASN	CA-C	-5.17	1.48	1.52
1	7t	57	ASN	CA-C	5.17	1.59	1.52
1	81	12	HIS	C-N	5.17	1.39	1.33
1	8u	46	GLY	C-O	-5.17	1.17	1.23
1	8E	214	MET	CA-CB	5.17	1.61	1.53
1	8J	104	ILE	CA-C	-5.17	1.46	1.52
1	8N	179	GLN	N-CA	-5.17	1.39	1.46
1	8Y	52	LEU	CA-CB	5.17	1.61	1.53
1	93	96	MET	N-CA	-5.17	1.39	1.46
1	99	154	ARG	CD-NE	5.17	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9g	162	ARG	CA-CB	5.17	1.61	1.53
1	9W	58	THR	CA-C	-5.17	1.46	1.52
1	9Y	173	ARG	CD-NE	5.17	1.53	1.46
1	a3	38	PRO	CA-CB	5.17	1.61	1.53
1	a5	130	TYR	CA-CB	5.17	1.61	1.53
1	a7	161	PHE	CA-C	5.17	1.59	1.52
1	at	17	PRO	CA-CB	5.17	1.61	1.53
1	az	66	MET	C-N	-5.17	1.27	1.33
1	b5	162	ARG	CA-C	-5.17	1.46	1.52
1	b9	140	LYS	CA-CB	5.17	1.61	1.53
1	bk	18	ARG	C-N	5.17	1.40	1.33
1	bl	120	HIS	CD2-NE2	5.17	1.43	1.37
1	18	138	LEU	C-N	5.17	1.40	1.33
1	bt	112	GLN	C-O	-5.17	1.18	1.24
1	bu	229	ARG	C-N	5.17	1.40	1.33
1	bw	128	GLU	N-CA	5.17	1.52	1.46
1	bR	59	VAL	C-O	-5.17	1.18	1.24
1	bV	25	LYS	CA-CB	5.17	1.61	1.53
1	bW	14	ALA	N-CA	-5.17	1.39	1.45
1	cm	63	GLN	CA-CB	-5.17	1.44	1.53
1	cs	1	PRO	N-CA	5.17	1.54	1.47
1	cz	138	LEU	C-N	5.17	1.40	1.33
1	cQ	212	GLU	N-CA	5.17	1.52	1.46
1	cX	135	ILE	CA-C	5.17	1.60	1.52
1	d9	87	HIS	ND1-CE1	5.17	1.37	1.32
1	dt	160	PRO	C-O	5.17	1.30	1.23
1	dx	201	ILE	C-N	5.17	1.40	1.33
1	dI	166	ASP	C-O	-5.17	1.18	1.24
1	e1	44	SER	CA-C	-5.17	1.46	1.52
1	e9	105	ALA	N-CA	-5.17	1.39	1.46
1	eg	49	PRO	CA-C	5.17	1.60	1.52
1	eh	190	LEU	C-N	5.17	1.40	1.33
1	eL	119	THR	CA-CB	5.17	1.62	1.53
1	eQ	224	PRO	CA-CB	5.17	1.61	1.53
1	eZ	174	ALA	CA-C	5.17	1.59	1.52
1	f2	175	GLU	N-CA	-5.17	1.39	1.46
1	f2	211	LEU	N-CA	-5.17	1.40	1.46
1	1v	42	ALA	C-N	5.17	1.40	1.33
1	fw	133	TRP	N-CA	-5.17	1.40	1.46
1	fI	20	LEU	CA-C	5.17	1.59	1.52
1	fJ	3	VAL	CA-C	5.17	1.59	1.52
1	fQ	50	GLN	N-CA	5.17	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fR	63	GLN	CA-C	-5.17	1.46	1.52
1	fY	206	GLY	N-CA	5.17	1.51	1.44
1	fZ	126	VAL	CA-C	5.17	1.59	1.52
1	e	175	GLU	CA-CB	5.17	1.61	1.53
1	y	226	HIS	CB-CG	-5.17	1.43	1.50
1	B	175	GLU	CA-CB	5.17	1.61	1.53
1	K	62	HIS	CG-CD2	5.17	1.41	1.35
1	W	28	GLU	C-N	5.17	1.40	1.33
1	gj	47	ALA	N-CA	-5.17	1.39	1.46
1	gA	128	GLU	CA-C	-5.17	1.46	1.52
1	gF	66	MET	CA-CB	5.17	1.61	1.53
1	h0	8	GLY	N-CA	5.17	1.52	1.45
1	h7	121	ASN	CA-CB	5.17	1.59	1.53
1	hc	63	GLN	C-O	-5.17	1.18	1.24
1	1J	128	GLU	C-O	5.17	1.30	1.24
1	hs	226	HIS	CB-CG	5.17	1.57	1.50
1	hv	98	GLU	C-N	5.17	1.40	1.33
1	hy	105	ALA	CA-C	5.17	1.60	1.52
1	1K	48	THR	CA-C	-5.17	1.46	1.53
1	hF	62	HIS	CA-CB	5.17	1.61	1.53
1	hK	135	ILE	CA-CB	-5.17	1.48	1.54
1	hR	129	ILE	C-N	5.17	1.40	1.33
1	id	88	ALA	CA-C	-5.17	1.46	1.52
1	in	170	LYS	CA-C	-5.17	1.46	1.52
1	iw	87	HIS	CG-ND1	-5.17	1.32	1.38
1	1Q	87	HIS	CB-CG	5.17	1.57	1.50
1	iI	162	ARG	CA-CB	5.17	1.61	1.53
1	j0	123	PRO	N-CD	-5.17	1.40	1.47
1	jc	168	PHE	CA-C	5.17	1.59	1.52
1	jl	37	ILE	CA-CB	5.17	1.57	1.54
1	1V	3	VAL	CA-C	-5.17	1.46	1.52
1	jF	80	TRP	NE1-CE2	-5.17	1.31	1.37
1	jO	183	ASN	CA-C	5.17	1.59	1.52
1	jV	1	PRO	N-CD	5.17	1.54	1.47
1	k1	83	LEU	CA-C	5.17	1.59	1.52
1	kd	51	ASP	N-CA	-5.17	1.40	1.46
1	kd	169	TYR	CZ-OH	5.17	1.49	1.38
1	kg	120	HIS	CD2-NE2	5.17	1.43	1.37
1	21	147	PRO	N-CD	5.17	1.54	1.47
1	kE	57	ASN	N-CA	-5.17	1.39	1.46
1	l9	81	ASP	N-CA	-5.17	1.40	1.46
1	la	20	LEU	CA-CB	5.17	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	li	29	GLU	CA-C	-5.17	1.48	1.53
1	lp	62	HIS	CG-ND1	-5.17	1.32	1.38
1	lp	183	ASN	CA-C	-5.17	1.46	1.52
1	lK	140	LYS	CA-CB	5.17	1.61	1.53
1	2e	161	PHE	C-N	5.17	1.41	1.33
1	2h	52	LEU	N-CA	-5.17	1.40	1.46
1	2v	48	THR	N-CA	5.17	1.53	1.45
1	2D	143	ARG	C-O	-5.17	1.18	1.24
1	2Q	96	MET	C-N	5.17	1.39	1.33
1	3o	6	LEU	C-N	5.17	1.40	1.33
1	3C	208	ALA	CA-CB	5.17	1.62	1.53
1	4h	8	GLY	C-N	5.17	1.41	1.33
1	4o	92	GLU	CA-C	5.17	1.59	1.52
1	4w	47	ALA	N-CA	-5.17	1.39	1.46
1	4K	156	GLY	N-CA	5.17	1.51	1.44
1	4R	153	ILE	N-CA	5.17	1.52	1.46
1	5f	111	LEU	C-N	5.17	1.40	1.33
1	5k	178	SER	CA-CB	5.17	1.61	1.53
1	5t	104	ILE	C-N	5.17	1.41	1.33
1	5C	20	LEU	CA-C	-5.17	1.46	1.52
1	68	120	HIS	CA-CB	5.17	1.61	1.53
1	6c	43	LEU	C-N	5.17	1.41	1.33
1	6f	39	MET	N-CA	5.17	1.52	1.46
1	6y	69	LEU	CA-CB	5.17	1.61	1.53
1	75	220	GLY	CA-C	5.17	1.58	1.51
1	7c	132	ARG	N-CA	5.17	1.52	1.46
1	7j	212	GLU	N-CA	5.17	1.52	1.46
1	7t	14	ALA	CA-C	5.17	1.59	1.52
1	7E	168	PHE	CA-CB	5.17	1.61	1.53
1	7K	170	LYS	CA-CB	5.17	1.61	1.53
1	7Y	41	SER	N-CA	5.17	1.52	1.46
1	83	166	ASP	C-N	5.17	1.40	1.33
1	8L	57	ASN	N-CA	-5.17	1.39	1.46
1	8W	52	LEU	CA-CB	5.17	1.61	1.53
1	96	141	ILE	N-CA	5.17	1.52	1.46
1	9i	125	PRO	N-CA	-5.17	1.40	1.47
1	9p	116	GLY	CA-C	-5.17	1.46	1.51
1	9q	7	GLN	CA-CB	5.17	1.62	1.53
1	9E	88	ALA	CA-C	5.17	1.59	1.52
1	9J	138	LEU	N-CA	-5.17	1.40	1.46
1	9S	97	ARG	CD-NE	5.17	1.53	1.46
1	9V	20	LEU	N-CA	5.17	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a7	13	GLN	CA-C	5.17	1.59	1.52
1	ab	185	MET	C-N	5.17	1.40	1.33
1	af	38	PRO	CA-C	5.17	1.60	1.52
1	al	154	ARG	N-CA	-5.17	1.39	1.46
1	am	113	GLU	C-N	5.17	1.40	1.33
1	ar	17	PRO	N-CA	-5.17	1.40	1.47
1	ax	72	THR	CA-CB	-5.17	1.45	1.53
1	aN	53	ASN	C-N	5.17	1.40	1.33
1	aW	198	CYS	CA-CB	5.17	1.61	1.53
1	ba	18	ARG	CD-NE	5.17	1.53	1.46
1	bc	162	ARG	CD-NE	5.17	1.53	1.46
1	bx	4	GLN	CA-C	5.17	1.59	1.53
1	bE	226	HIS	N-CA	5.17	1.52	1.46
1	bP	38	PRO	C-O	-5.17	1.17	1.24
1	bV	202	LEU	C-N	5.17	1.40	1.33
1	c2	229	ARG	N-CA	-5.17	1.40	1.46
1	ca	133	TRP	CA-CB	5.17	1.61	1.53
1	cc	113	GLU	CA-C	-5.17	1.46	1.52
1	cm	48	THR	CA-CB	-5.17	1.44	1.53
1	cs	99	PRO	CA-CB	5.17	1.61	1.53
1	cv	103	ASP	C-N	5.17	1.40	1.33
1	cC	128	GLU	CA-C	-5.17	1.46	1.52
1	cI	154	ARG	CA-C	5.17	1.59	1.52
1	cK	12	HIS	C-N	5.17	1.40	1.33
1	dn	226	HIS	CB-CG	5.17	1.57	1.50
1	dq	38	PRO	C-N	5.17	1.40	1.33
1	dq	45	GLU	CA-CB	5.17	1.62	1.53
1	dz	210	THR	C-N	5.17	1.40	1.34
1	dV	228	ALA	N-CA	5.17	1.52	1.45
1	e0	55	MET	C-N	5.17	1.40	1.33
1	e2	187	GLU	CA-C	5.17	1.59	1.52
1	e4	108	THR	CA-C	-5.17	1.45	1.52
1	e8	166	ASP	CA-C	5.17	1.59	1.52
1	er	37	ILE	CA-CB	5.17	1.56	1.54
1	et	101	GLY	C-O	-5.17	1.17	1.23
1	1t	100	ARG	C-N	5.17	1.40	1.33
1	eR	1	PRO	N-CA	5.17	1.54	1.47
1	eS	173	ARG	CD-NE	5.17	1.53	1.46
1	eW	53	ASN	C-O	-5.17	1.18	1.24
1	eZ	88	ALA	CA-CB	5.17	1.61	1.54
1	f3	21	ASN	C-N	5.17	1.40	1.33
1	fg	59	VAL	CA-CB	-5.17	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fs	127	GLY	CA-C	-5.17	1.46	1.52
1	fB	115	ILE	CA-C	5.17	1.59	1.52
1	fD	54	THR	CB-OG1	-5.17	1.35	1.43
1	1	168	PHE	CB-CG	5.17	1.62	1.50
1	r	57	ASN	CG-ND2	5.17	1.44	1.33
1	x	17	PRO	N-CD	-5.17	1.40	1.47
1	H	219	GLN	C-O	-5.17	1.18	1.23
1	L	7	GLN	CA-C	5.17	1.59	1.53
1	O	217	ALA	CA-C	5.17	1.59	1.52
1	gf	183	ASN	N-CA	5.17	1.52	1.46
1	gi	35	GLU	N-CA	-5.17	1.39	1.46
1	gp	167	ARG	C-N	5.17	1.40	1.33
1	gC	143	ARG	NE-CZ	-5.17	1.27	1.33
1	hO	110	THR	N-CA	5.17	1.51	1.45
1	hR	168	PHE	CA-CB	5.17	1.61	1.53
1	ig	24	VAL	C-N	5.17	1.41	1.33
1	iw	18	ARG	NE-CZ	-5.17	1.27	1.33
1	iL	4	GLN	CA-C	5.17	1.58	1.52
1	jn	219	GLN	C-N	5.17	1.40	1.33
1	jA	202	LEU	CA-C	-5.17	1.46	1.52
1	jS	105	ALA	C-N	5.17	1.40	1.33
1	k0	106	GLY	N-CA	5.17	1.53	1.45
1	k0	221	VAL	N-CA	-5.17	1.40	1.46
1	21	210	THR	CA-C	5.17	1.59	1.52
1	kv	89	GLY	CA-C	-5.17	1.44	1.51
1	kA	2	ILE	N-CA	-5.17	1.40	1.46
1	kX	230	VAL	N-CA	-5.17	1.40	1.46
1	l5	37	ILE	C-O	-5.17	1.20	1.24
1	ln	131	LYS	CA-CB	5.17	1.61	1.53
1	ly	120	HIS	C-N	5.17	1.41	1.33
1	lR	199	LYS	CA-CB	5.17	1.61	1.53
1	2y	230	VAL	N-CA	-5.17	1.40	1.46
1	3C	157	PRO	CA-CB	5.17	1.62	1.53
1	3I	46	GLY	CA-C	-5.17	1.44	1.51
1	3N	203	LYS	CA-C	-5.17	1.46	1.52
1	44	107	THR	CA-C	5.17	1.59	1.52
1	4m	96	MET	C-N	5.17	1.40	1.33
1	4z	215	MET	C-N	5.17	1.40	1.33
1	4P	203	LYS	C-O	-5.17	1.18	1.24
1	6A	67	GLN	CA-CB	5.17	1.61	1.53
1	73	115	ILE	C-N	5.17	1.40	1.33
1	7d	15	ILE	CB-CG1	5.17	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7R	95	GLN	CA-C	-5.17	1.46	1.53
1	84	191	VAL	C-O	-5.17	1.18	1.24
1	8P	177	ALA	C-N	5.17	1.40	1.33
1	9e	24	VAL	CA-C	5.17	1.59	1.52
1	9z	153	ILE	N-CA	-5.17	1.39	1.46
1	9H	66	MET	CA-C	-5.17	1.46	1.52
1	9X	117	TRP	CA-CB	5.17	1.61	1.53
1	Z	93	PRO	C-N	5.17	1.41	1.33
1	a1	204	ALA	N-CA	-5.17	1.40	1.46
1	b6	171	THR	C-N	5.17	1.40	1.33
1	b7	171	THR	N-CA	5.17	1.52	1.46
1	bs	164	TYR	CA-C	5.17	1.59	1.52
1	bu	122	PRO	C-N	-5.17	1.26	1.33
1	bJ	115	ILE	CA-C	5.17	1.60	1.52
1	bV	80	TRP	N-CA	-5.17	1.40	1.46
1	c9	78	ALA	C-N	5.17	1.41	1.33
1	c9	117	TRP	CA-CB	5.17	1.61	1.53
1	cr	108	THR	CA-C	5.17	1.59	1.52
1	cQ	22	ALA	C-N	5.17	1.40	1.33
1	d5	154	ARG	CZ-NH1	-5.17	1.25	1.32
1	dl	44	SER	C-N	5.17	1.40	1.33
1	dA	149	SER	C-O	-5.17	1.17	1.23
1	dR	178	SER	C-N	5.17	1.40	1.33
1	dW	18	ARG	C-N	5.17	1.40	1.33
1	eb	128	GLU	C-N	5.17	1.40	1.33
1	fp	180	GLU	CA-CB	5.17	1.61	1.53
1	fR	68	MET	CA-CB	5.17	1.61	1.53
1	g5	175	GLU	C-O	-5.17	1.18	1.24
1	g7	65	ALA	C-N	5.17	1.41	1.34
1	D	162	ARG	N-CA	5.17	1.52	1.46
1	7	182	LYS	C-N	5.17	1.41	1.33
1	7	230	VAL	C-N	5.17	1.40	1.33
1	g8	160	PRO	N-CA	5.16	1.53	1.47
1	ga	10	MET	C-N	5.16	1.39	1.33
1	gg	69	LEU	CA-CB	5.16	1.61	1.53
1	go	114	GLN	CA-CB	5.16	1.61	1.53
1	gp	112	GLN	N-CA	5.16	1.52	1.46
1	gt	42	ALA	N-CA	-5.16	1.40	1.46
1	gB	35	GLU	CA-C	-5.16	1.45	1.52
1	1E	43	LEU	CA-CB	5.16	1.61	1.53
1	1E	227	LYS	CA-CB	5.16	1.64	1.54
1	gL	229	ARG	C-N	5.16	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gY	152	ASP	C-N	5.16	1.40	1.33
1	he	68	MET	C-O	-5.16	1.18	1.24
1	he	186	THR	CB-OG1	-5.16	1.35	1.43
1	1J	159	GLU	CA-C	5.16	1.58	1.52
1	hq	144	MET	C-O	-5.16	1.18	1.24
1	hy	87	HIS	ND1-CE1	5.16	1.37	1.32
1	hE	206	GLY	N-CA	5.16	1.51	1.44
1	hM	126	VAL	CA-C	5.16	1.59	1.52
1	hU	69	LEU	N-CA	5.16	1.52	1.46
1	1N	224	PRO	C-O	-5.16	1.17	1.24
1	iW	57	ASN	CA-CB	5.16	1.61	1.53
1	j0	53	ASN	CA-C	5.16	1.59	1.52
1	j6	87	HIS	CD2-NE2	5.16	1.43	1.37
1	j6	168	PHE	N-CA	-5.16	1.40	1.46
1	jl	30	LYS	N-CA	-5.16	1.41	1.46
1	jp	141	ILE	N-CA	-5.16	1.40	1.46
1	jq	201	ILE	N-CA	-5.16	1.40	1.46
1	jL	29	GLU	CA-CB	5.16	1.61	1.53
1	jO	98	GLU	C-O	-5.16	1.17	1.24
1	k4	97	ARG	CA-CB	5.16	1.62	1.53
1	k4	151	LEU	C-N	5.16	1.40	1.33
1	kd	42	ALA	N-CA	5.16	1.52	1.46
1	kg	90	PRO	CA-CB	-5.16	1.46	1.53
1	kj	156	GLY	CA-C	5.16	1.59	1.51
1	23	170	LYS	C-N	-5.16	1.27	1.33
1	kL	84	HIS	CG-ND1	5.16	1.44	1.38
1	lq	14	ALA	C-N	5.16	1.41	1.33
1	lv	128	GLU	CA-C	5.16	1.59	1.52
1	29	72	THR	C-N	5.16	1.40	1.33
1	lQ	12	HIS	CG-CD2	-5.16	1.30	1.35
1	2f	181	VAL	CA-CB	-5.16	1.47	1.54
1	2h	142	VAL	CA-C	-5.16	1.46	1.52
1	2r	50	GLN	CA-CB	5.16	1.61	1.53
1	2s	114	GLN	CA-C	5.16	1.59	1.52
1	2A	15	ILE	CA-C	5.16	1.58	1.52
1	2E	41	SER	N-CA	-5.16	1.40	1.46
1	2O	143	ARG	CD-NE	5.16	1.53	1.46
1	2S	188	THR	C-N	5.16	1.40	1.33
1	38	206	GLY	CA-C	-5.16	1.44	1.51
1	3h	117	TRP	CA-C	5.16	1.59	1.52
1	3s	198	CYS	C-N	5.16	1.40	1.34
1	3y	104	ILE	C-N	5.16	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3E	44	SER	C-O	-5.16	1.17	1.24
1	4d	10	MET	C-N	5.16	1.40	1.33
1	4h	210	THR	CA-C	5.16	1.60	1.53
1	4K	45	GLU	N-CA	-5.16	1.39	1.46
1	4M	212	GLU	N-CA	5.16	1.52	1.46
1	4P	68	MET	C-O	-5.16	1.18	1.24
1	5H	146	SER	N-CA	5.16	1.53	1.46
1	5S	133	TRP	CA-C	5.16	1.59	1.52
1	5X	149	SER	N-CA	-5.16	1.39	1.45
1	6s	227	LYS	N-CA	-5.16	1.40	1.46
1	6C	16	SER	CA-C	5.16	1.58	1.52
1	6D	223	GLY	C-N	5.16	1.40	1.33
1	6G	20	LEU	CA-CB	5.16	1.61	1.53
1	6U	109	SER	CA-C	5.16	1.58	1.52
1	6V	3	VAL	N-CA	5.16	1.51	1.46
1	6X	136	LEU	CA-C	5.16	1.59	1.52
1	74	57	ASN	CA-CB	5.16	1.62	1.53
1	7j	161	PHE	C-N	5.16	1.40	1.33
1	8u	56	LEU	N-CA	-5.16	1.40	1.46
1	8Z	7	GLN	CA-CB	5.16	1.62	1.53
1	95	117	TRP	CA-C	5.16	1.59	1.52
1	96	113	GLU	CA-CB	-5.16	1.45	1.53
1	9s	33	SER	C-N	-5.16	1.27	1.33
1	9w	76	GLU	CA-CB	5.16	1.61	1.53
1	9B	14	ALA	CA-C	5.16	1.59	1.52
1	9D	173	ARG	CA-C	-5.16	1.46	1.52
1	9L	224	PRO	N-CD	5.16	1.54	1.47
1	9M	141	ILE	CA-CB	5.16	1.60	1.54
1	aa	67	GLN	C-N	5.16	1.41	1.33
1	ac	79	GLU	C-O	-5.16	1.17	1.24
1	bb	35	GLU	C-N	5.16	1.39	1.33
1	bd	210	THR	CA-C	-5.16	1.46	1.52
1	bf	221	VAL	CA-C	5.16	1.59	1.52
1	bo	212	GLU	C-N	5.16	1.40	1.33
1	bp	212	GLU	CA-C	5.16	1.59	1.52
1	bq	109	SER	N-CA	-5.16	1.39	1.45
1	bu	10	MET	C-O	-5.16	1.17	1.24
1	bG	116	GLY	CA-C	5.16	1.57	1.52
1	bJ	180	GLU	CA-C	5.16	1.59	1.52
1	bQ	52	LEU	N-CA	-5.16	1.39	1.46
1	bX	80	TRP	C-O	-5.16	1.17	1.24
1	c1	21	ASN	CA-C	5.16	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c4	210	THR	CB-OG1	5.16	1.52	1.43
1	c5	112	GLN	N-CA	-5.16	1.40	1.46
1	c7	158	LYS	CA-C	-5.16	1.45	1.52
1	c8	134	ILE	C-N	5.16	1.40	1.33
1	cf	182	LYS	N-CA	-5.16	1.40	1.46
1	cl	85	PRO	N-CD	5.16	1.54	1.47
1	cH	7	GLN	CA-C	-5.16	1.46	1.52
1	1g	110	THR	N-CA	5.16	1.52	1.45
1	cN	72	THR	C-N	5.16	1.40	1.33
1	cY	161	PHE	CB-CG	5.16	1.62	1.50
1	cZ	229	ARG	CZ-NH1	-5.16	1.25	1.32
1	1n	4	GLN	CA-C	5.16	1.60	1.52
1	e7	137	GLY	C-N	5.16	1.40	1.33
1	er	73	ILE	CA-CB	-5.16	1.48	1.54
1	eX	71	GLU	CA-CB	5.16	1.61	1.53
1	1u	173	ARG	CA-CB	5.16	1.62	1.53
1	f8	70	LYS	CA-C	-5.16	1.46	1.52
1	1v	67	GLN	C-O	-5.16	1.18	1.24
1	fp	81	ASP	CA-C	5.16	1.59	1.52
1	1x	226	HIS	CA-CB	5.16	1.61	1.53
1	fy	224	PRO	N-CA	-5.16	1.40	1.47
1	fE	138	LEU	CB-CG	5.16	1.63	1.53
1	g6	217	ALA	C-N	5.16	1.40	1.33
1	1B	63	GLN	CA-C	5.16	1.59	1.52
1	d	129	ILE	N-CA	-5.16	1.40	1.46
1	q	87	HIS	CA-CB	5.16	1.61	1.53
1	r	133	TRP	N-CA	5.16	1.52	1.46
1	t	92	GLU	CA-C	-5.16	1.47	1.53
1	H	2	ILE	CA-CB	5.16	1.61	1.54
1	T	229	ARG	CZ-NH1	-5.16	1.25	1.32
1	gj	182	LYS	CA-CB	5.16	1.61	1.53
1	gF	201	ILE	N-CA	5.16	1.52	1.46
1	gP	69	LEU	CA-CB	-5.16	1.45	1.53
1	gS	47	ALA	N-CA	-5.16	1.39	1.46
1	hz	97	ARG	N-CA	-5.16	1.39	1.46
1	1T	23	TRP	CA-CB	5.16	1.61	1.53
1	jc	140	LYS	CA-CB	5.16	1.61	1.53
1	jU	27	VAL	CA-C	-5.16	1.46	1.52
1	ks	45	GLU	CA-CB	5.16	1.62	1.53
1	ky	9	GLN	CA-C	-5.16	1.45	1.52
1	ky	55	MET	N-CA	5.16	1.52	1.46
1	lC	39	MET	C-O	-5.16	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2h	211	LEU	C-N	5.16	1.40	1.33
1	2t	124	ILE	CB-CG1	5.16	1.63	1.53
1	2J	188	THR	CA-C	-5.16	1.45	1.52
1	39	99	PRO	N-CD	5.16	1.54	1.47
1	3l	210	THR	C-N	5.16	1.40	1.33
1	3m	105	ALA	C-N	5.16	1.40	1.33
1	3X	72	THR	C-N	5.16	1.40	1.33
1	3Z	205	LEU	CA-C	-5.16	1.46	1.52
1	4r	205	LEU	CA-C	5.16	1.59	1.52
1	4F	57	ASN	CA-CB	5.16	1.61	1.53
1	4T	154	ARG	C-N	5.16	1.40	1.33
1	55	93	PRO	N-CD	-5.16	1.40	1.47
1	5H	113	GLU	C-N	5.16	1.40	1.33
1	5I	7	GLN	C-N	5.16	1.41	1.33
1	6J	12	HIS	CA-C	5.16	1.59	1.52
1	73	165	VAL	CA-C	-5.16	1.46	1.52
1	7Q	8	GLY	C-N	5.16	1.41	1.33
1	80	56	LEU	C-N	5.16	1.41	1.33
1	8k	155	GLN	CA-C	-5.16	1.46	1.52
1	8o	120	HIS	CD2-NE2	5.16	1.43	1.37
1	8z	2	ILE	CA-CB	-5.16	1.48	1.54
1	99	15	ILE	CA-CB	-5.16	1.48	1.54
1	9A	83	LEU	CA-CB	5.16	1.61	1.53
1	9N	12	HIS	CB-CG	5.16	1.57	1.50
1	9W	201	ILE	C-N	5.16	1.41	1.33
1	a5	45	GLU	C-N	5.16	1.41	1.33
1	aa	168	PHE	CA-CB	5.16	1.61	1.53
1	ao	117	TRP	CA-CB	5.16	1.61	1.53
1	19	115	ILE	CA-C	5.16	1.59	1.52
1	c5	211	LEU	CA-C	-5.16	1.45	1.52
1	cU	133	TRP	NE1-CE2	-5.16	1.31	1.37
1	dx	183	ASN	CA-C	-5.16	1.46	1.52
1	dE	86	VAL	CA-CB	5.16	1.61	1.54
1	ey	164	TYR	N-CA	5.16	1.52	1.46
1	f5	42	ALA	CA-C	-5.16	1.46	1.52
1	ff	140	LYS	C-N	5.16	1.40	1.33
1	fu	205	LEU	C-N	5.16	1.41	1.33
1	fS	165	VAL	CA-CB	5.16	1.61	1.54
1	o	130	TYR	C-N	5.16	1.40	1.33
1	8	95	GLN	CA-CB	5.16	1.61	1.53
1	gc	167	ARG	N-CA	5.16	1.52	1.46
1	gf	129	ILE	C-N	5.16	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gz	25	LYS	N-CA	-5.16	1.39	1.46
1	1G	52	LEU	C-N	5.16	1.40	1.33
1	h0	173	ARG	C-N	5.16	1.40	1.33
1	hc	149	SER	CA-CB	5.16	1.62	1.53
1	hg	196	PRO	N-CD	-5.16	1.40	1.47
1	hk	89	GLY	N-CA	5.16	1.51	1.44
1	ht	1	PRO	N-CD	5.16	1.54	1.47
1	hE	100	ARG	N-CA	5.16	1.52	1.45
1	hI	84	HIS	CA-C	5.16	1.58	1.52
1	hY	94	GLY	N-CA	5.16	1.51	1.45
1	1N	169	TYR	N-CA	-5.16	1.40	1.46
1	ia	65	ALA	CA-CB	5.16	1.61	1.53
1	ic	3	VAL	CA-C	5.16	1.58	1.52
1	ij	128	GLU	CA-CB	5.16	1.61	1.53
1	it	145	TYR	CA-C	5.16	1.60	1.52
1	iC	117	TRP	CA-CB	5.16	1.61	1.53
1	1T	33	SER	CA-CB	-5.16	1.46	1.54
1	j6	64	ALA	CA-C	-5.16	1.46	1.52
1	jv	29	GLU	CA-C	5.16	1.59	1.52
1	jE	23	TRP	CA-C	5.16	1.59	1.52
1	jL	97	ARG	N-CA	-5.16	1.39	1.46
1	jM	150	ILE	CA-C	5.16	1.58	1.52
1	jO	148	THR	CA-C	5.16	1.59	1.52
1	jS	11	VAL	N-CA	-5.16	1.40	1.46
1	jV	229	ARG	C-N	5.16	1.40	1.33
1	k4	59	VAL	C-O	-5.16	1.18	1.24
1	kg	116	GLY	N-CA	5.16	1.52	1.45
1	kh	184	TRP	NE1-CE2	-5.16	1.31	1.37
1	kt	146	SER	CA-C	5.16	1.58	1.52
1	kH	69	LEU	C-N	5.16	1.40	1.33
1	kX	105	ALA	C-N	5.16	1.38	1.33
1	le	119	THR	CA-C	-5.16	1.45	1.52
1	lA	226	HIS	CD2-NE2	5.16	1.43	1.37
1	lC	95	GLN	CA-C	5.16	1.60	1.53
1	lK	70	LYS	C-N	5.16	1.40	1.33
1	2a	52	LEU	CA-C	5.16	1.59	1.52
1	lN	121	ASN	CA-C	5.16	1.57	1.52
1	lR	71	GLU	CA-CB	5.16	1.61	1.53
1	2l	140	LYS	CA-CB	5.16	1.61	1.53
1	2w	14	ALA	C-N	5.16	1.40	1.33
1	2Q	120	HIS	CE1-NE2	5.16	1.37	1.32
1	30	78	ALA	N-CA	-5.16	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	34	186	THR	N-CA	5.16	1.52	1.46
1	35	85	PRO	C-N	5.16	1.40	1.33
1	37	75	GLU	CA-C	5.16	1.59	1.52
1	3A	149	SER	CA-CB	5.16	1.61	1.53
1	3A	199	LYS	CA-CB	5.16	1.61	1.53
1	43	177	ALA	CA-CB	-5.16	1.45	1.53
1	4k	20	LEU	CA-CB	5.16	1.61	1.53
1	4y	26	VAL	N-CA	-5.16	1.40	1.46
1	4A	154	ARG	CA-C	-5.16	1.46	1.52
1	57	114	GLN	N-CA	5.16	1.52	1.46
1	57	216	THR	C-O	-5.16	1.17	1.24
1	5r	14	ALA	CA-C	5.16	1.59	1.52
1	5x	123	PRO	N-CD	5.16	1.54	1.47
1	5G	58	THR	N-CA	-5.16	1.40	1.46
1	5T	176	GLN	CA-C	-5.16	1.46	1.52
1	62	61	GLY	N-CA	5.16	1.51	1.45
1	67	12	HIS	CA-CB	5.16	1.60	1.53
1	6b	84	HIS	CG-CD2	5.16	1.41	1.35
1	6b	132	ARG	CA-C	-5.16	1.46	1.52
1	6b	152	ASP	C-O	5.16	1.30	1.24
1	6e	132	ARG	CD-NE	5.16	1.53	1.46
1	6F	120	HIS	CA-CB	5.16	1.61	1.53
1	6M	152	ASP	C-N	5.16	1.40	1.33
1	6X	56	LEU	CA-CB	5.16	1.61	1.53
1	79	183	ASN	CG-OD1	5.16	1.33	1.23
1	7d	13	GLN	C-N	5.16	1.40	1.33
1	7h	213	GLU	C-O	-5.16	1.17	1.24
1	7k	113	GLU	C-N	5.16	1.40	1.33
1	7n	185	MET	N-CA	-5.16	1.40	1.46
1	7F	97	ARG	CA-C	5.16	1.59	1.52
1	7W	202	LEU	CA-CB	5.16	1.61	1.53
1	83	66	MET	N-CA	-5.16	1.40	1.46
1	8l	124	ILE	CA-CB	5.16	1.60	1.54
1	8u	87	HIS	CE1-NE2	5.16	1.37	1.32
1	8G	136	LEU	C-N	5.16	1.40	1.33
1	8Y	137	GLY	CA-C	5.16	1.57	1.52
1	96	89	GLY	C-O	-5.16	1.17	1.24
1	9i	14	ALA	C-N	5.16	1.40	1.33
1	9t	70	LYS	C-N	5.16	1.40	1.34
1	9y	75	GLU	CA-C	5.16	1.59	1.52
1	9F	223	GLY	C-O	-5.16	1.17	1.24
1	a0	142	VAL	N-CA	5.16	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a3	12	HIS	N-CA	5.16	1.52	1.46
1	a8	3	VAL	N-CA	-5.16	1.40	1.46
1	at	200	THR	N-CA	5.16	1.52	1.46
1	12	200	THR	N-CA	5.16	1.52	1.46
1	aw	168	PHE	C-O	-5.16	1.18	1.24
1	az	173	ARG	C-N	5.16	1.40	1.33
1	aW	37	ILE	C-O	-5.16	1.20	1.24
1	b2	167	ARG	CD-NE	5.16	1.53	1.46
1	bp	189	LEU	C-N	5.16	1.40	1.33
1	19	31	ALA	CA-CB	5.16	1.61	1.53
1	bH	78	ALA	N-CA	-5.16	1.40	1.46
1	bO	59	VAL	CA-C	5.16	1.59	1.52
1	bQ	87	HIS	CE1-NE2	5.16	1.37	1.32
1	bR	41	SER	CA-CB	5.16	1.61	1.53
1	bT	62	HIS	CA-C	-5.16	1.46	1.53
1	c2	162	ARG	CD-NE	5.16	1.53	1.46
1	cD	92	GLU	CA-C	5.16	1.59	1.53
1	cE	7	GLN	N-CA	5.16	1.52	1.46
1	cS	205	LEU	C-O	-5.16	1.18	1.24
1	dl	176	GLN	C-N	5.16	1.40	1.33
1	do	207	PRO	N-CD	5.16	1.54	1.47
1	dq	45	GLU	CA-C	5.16	1.59	1.52
1	dw	226	HIS	CA-C	5.16	1.59	1.52
1	dR	46	GLY	C-N	5.16	1.40	1.33
1	1n	94	GLY	N-CA	5.16	1.52	1.44
1	dX	162	ARG	CA-C	5.16	1.60	1.52
1	dY	97	ARG	CA-C	-5.16	1.46	1.53
1	eb	226	HIS	CG-ND1	5.16	1.44	1.38
1	ef	97	ARG	CD-NE	5.16	1.53	1.46
1	eg	156	GLY	N-CA	5.16	1.51	1.44
1	ei	79	GLU	C-N	5.16	1.40	1.33
1	eH	165	VAL	CA-C	-5.16	1.46	1.52
1	eJ	50	GLN	C-O	-5.16	1.18	1.24
1	eJ	97	ARG	CD-NE	5.16	1.53	1.46
1	eU	227	LYS	CA-CB	5.16	1.61	1.53
1	fn	29	GLU	CB-CG	5.16	1.68	1.52
1	fA	205	LEU	CA-CB	5.16	1.61	1.53
1	fF	192	GLN	CA-C	5.16	1.59	1.52
1	1A	59	VAL	CA-C	5.16	1.58	1.52
1	g3	40	PHE	CA-CB	5.16	1.61	1.53
1	g5	57	ASN	N-CA	-5.16	1.40	1.46
1	J	84	HIS	CD2-NE2	5.16	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g9	217	ALA	C-N	5.16	1.41	1.33
1	gk	25	LYS	CA-CB	5.16	1.61	1.53
1	gl	130	TYR	CA-C	-5.16	1.45	1.52
1	gy	226	HIS	CB-CG	5.16	1.57	1.50
1	gK	44	SER	CA-CB	5.16	1.62	1.53
1	gR	75	GLU	C-O	-5.16	1.18	1.24
1	hd	19	THR	CA-CB	-5.16	1.45	1.53
1	1I	189	LEU	CA-C	5.16	1.59	1.52
1	hJ	202	LEU	C-N	5.16	1.41	1.33
1	hQ	107	THR	N-CA	-5.16	1.39	1.46
1	ig	61	GLY	CA-C	-5.16	1.43	1.52
1	ir	70	LYS	CA-CB	5.16	1.61	1.53
1	iE	105	ALA	C-N	5.16	1.39	1.33
1	iM	54	THR	CA-C	-5.16	1.46	1.52
1	iN	124	ILE	CA-C	5.16	1.57	1.53
1	iX	223	GLY	N-CA	5.16	1.50	1.43
1	j6	213	GLU	N-CA	5.16	1.52	1.46
1	jn	116	GLY	CA-C	-5.16	1.46	1.52
1	jB	76	GLU	N-CA	-5.16	1.40	1.46
1	jI	128	GLU	N-CA	-5.16	1.39	1.46
1	k5	14	ALA	C-N	5.16	1.40	1.33
1	kf	81	ASP	CG-OD1	5.16	1.35	1.25
1	kG	221	VAL	CA-CB	5.16	1.60	1.54
1	kT	24	VAL	C-N	5.16	1.41	1.33
1	25	73	ILE	N-CA	5.16	1.52	1.46
1	l0	171	THR	C-N	5.16	1.40	1.34
1	l6	69	LEU	C-O	-5.16	1.18	1.24
1	la	25	LYS	N-CA	-5.16	1.40	1.46
1	lh	114	GLN	C-N	5.16	1.40	1.33
1	li	81	ASP	C-N	5.16	1.40	1.34
1	ll	114	GLN	CA-C	-5.16	1.46	1.52
1	lm	34	PRO	CA-CB	5.16	1.61	1.53
1	lp	82	ARG	CZ-NH2	-5.16	1.26	1.33
1	lx	41	SER	N-CA	5.16	1.52	1.46
1	2f	31	ALA	N-CA	-5.16	1.39	1.46
1	2h	164	TYR	C-N	5.16	1.40	1.33
1	2p	220	GLY	C-O	-5.16	1.18	1.23
1	2q	200	THR	N-CA	5.16	1.52	1.46
1	2B	220	GLY	CA-C	-5.16	1.44	1.51
1	2E	57	ASN	N-CA	5.16	1.52	1.46
1	2M	103	ASP	C-O	-5.16	1.18	1.24
1	2P	179	GLN	CA-C	5.16	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2U	130	TYR	C-N	5.16	1.40	1.34
1	3e	16	SER	CA-C	5.16	1.59	1.53
1	3z	221	VAL	C-N	5.16	1.41	1.33
1	3I	111	LEU	CA-C	-5.16	1.46	1.52
1	3L	143	ARG	CD-NE	5.16	1.53	1.46
1	4e	133	TRP	CA-C	5.16	1.59	1.52
1	4k	117	TRP	CA-C	-5.16	1.45	1.52
1	4J	150	ILE	C-N	5.16	1.41	1.33
1	4P	229	ARG	CZ-NH2	-5.16	1.26	1.33
1	4R	5	ASN	C-O	5.16	1.30	1.23
1	4S	121	ASN	C-O	-5.16	1.19	1.24
1	4U	9	GLN	CA-CB	5.16	1.61	1.53
1	5k	195	ASN	C-N	-5.16	1.26	1.33
1	5s	230	VAL	CA-C	-5.16	1.48	1.53
1	5L	56	LEU	CA-CB	5.16	1.61	1.53
1	5V	68	MET	N-CA	-5.16	1.39	1.46
1	5W	194	ALA	CA-C	5.16	1.59	1.52
1	63	25	LYS	C-N	5.16	1.40	1.33
1	6c	35	GLU	CA-CB	5.16	1.62	1.53
1	6i	41	SER	C-N	-5.16	1.27	1.33
1	6N	29	GLU	CA-C	5.16	1.59	1.52
1	70	45	GLU	C-N	-5.16	1.26	1.33
1	7b	84	HIS	CG-CD2	5.16	1.41	1.35
1	7i	89	GLY	N-CA	5.16	1.51	1.44
1	7j	32	PHE	N-CA	5.16	1.52	1.46
1	7l	125	PRO	CA-CB	-5.16	1.48	1.53
1	7l	168	PHE	C-N	5.16	1.40	1.33
1	7H	154	ARG	CD-NE	5.16	1.53	1.46
1	7P	226	HIS	CD2-NE2	5.16	1.43	1.37
1	7R	145	TYR	CA-CB	5.16	1.61	1.53
1	80	167	ARG	CZ-NH2	-5.16	1.26	1.33
1	8c	189	LEU	N-CA	5.16	1.52	1.46
1	8y	120	HIS	CG-CD2	5.16	1.41	1.35
1	8Q	113	GLU	CA-CB	5.16	1.61	1.53
1	8Y	124	ILE	N-CA	-5.16	1.42	1.46
1	96	80	TRP	N-CA	-5.16	1.40	1.46
1	9m	193	ASN	C-O	-5.16	1.17	1.24
1	9U	25	LYS	CA-CB	5.16	1.61	1.53
1	a0	225	GLY	C-N	5.16	1.40	1.33
1	a2	36	VAL	CA-C	5.16	1.59	1.52
1	a4	117	TRP	C-N	5.16	1.41	1.33
1	a4	167	ARG	C-N	5.16	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a7	63	GLN	N-CA	-5.16	1.39	1.46
1	a7	77	ALA	C-O	-5.16	1.18	1.24
1	ai	192	GLN	CA-CB	5.16	1.61	1.53
1	ak	22	ALA	CA-CB	5.16	1.61	1.53
1	aq	13	GLN	C-N	5.16	1.41	1.33
1	aS	17	PRO	CA-CB	-5.16	1.46	1.53
1	b1	176	GLN	C-N	5.16	1.40	1.33
1	b6	212	GLU	C-N	5.16	1.40	1.33
1	bg	80	TRP	CA-C	5.16	1.59	1.52
1	bi	211	LEU	C-N	5.16	1.40	1.33
1	bo	28	GLU	C-O	5.16	1.30	1.24
1	bu	56	LEU	C-O	-5.16	1.18	1.24
1	bP	11	VAL	CA-C	5.16	1.58	1.52
1	bU	218	CYS	CA-CB	5.16	1.61	1.53
1	bV	19	THR	CA-CB	5.16	1.61	1.53
1	c2	23	TRP	CA-C	5.16	1.59	1.52
1	c6	53	ASN	CA-C	5.16	1.59	1.52
1	cm	7	GLN	CA-CB	5.16	1.61	1.53
1	1g	100	ARG	C-N	5.16	1.40	1.33
1	cM	7	GLN	CA-C	5.16	1.59	1.52
1	cM	222	GLY	N-CA	5.16	1.51	1.45
1	cU	144	MET	CA-CB	5.16	1.61	1.53
1	d1	11	VAL	N-CA	-5.16	1.40	1.46
1	d8	28	GLU	CA-C	5.16	1.59	1.52
1	db	59	VAL	CA-C	5.16	1.58	1.52
1	di	34	PRO	CA-C	-5.16	1.45	1.52
1	e4	221	VAL	CA-CB	-5.16	1.48	1.54
1	e7	147	PRO	CA-C	-5.16	1.44	1.52
1	eB	115	ILE	CB-CG1	5.16	1.63	1.53
1	eS	198	CYS	N-CA	5.16	1.53	1.45
1	fl	24	VAL	CA-CB	5.16	1.60	1.54
1	fr	175	GLU	CA-CB	5.16	1.61	1.53
1	ft	30	LYS	C-N	5.16	1.41	1.33
1	fC	29	GLU	CA-CB	5.16	1.61	1.53
1	fI	80	TRP	CA-CB	5.16	1.61	1.53
1	fL	181	VAL	C-N	5.16	1.40	1.33
1	fT	140	LYS	N-CA	5.16	1.52	1.46
1	g0	117	TRP	NE1-CE2	5.16	1.43	1.37
1	k	22	ALA	CA-CB	5.16	1.61	1.53
1	u	95	GLN	CA-C	-5.16	1.46	1.52
1	x	104	ILE	C-O	-5.16	1.18	1.24
1	E	16	SER	CA-CB	5.16	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	L	150	ILE	C-N	5.16	1.40	1.34
1	L	158	LYS	CA-C	5.16	1.59	1.53
1	gt	115	ILE	C-N	5.16	1.40	1.33
1	gu	93	PRO	N-CA	5.16	1.54	1.47
1	1F	123	PRO	CA-CB	-5.16	1.46	1.53
1	hj	203	LYS	N-CA	-5.16	1.40	1.46
1	hu	229	ARG	CA-CB	5.16	1.61	1.53
1	hP	74	ASN	CA-CB	5.16	1.61	1.53
1	i6	80	TRP	NE1-CE2	5.16	1.43	1.37
1	ir	9	GLN	CA-C	5.16	1.60	1.53
1	ix	204	ALA	N-CA	-5.16	1.39	1.46
1	j9	36	VAL	C-N	5.16	1.39	1.33
1	jB	100	ARG	CD-NE	5.16	1.53	1.46
1	jL	183	ASN	CA-CB	5.16	1.61	1.53
1	jY	10	MET	CA-C	-5.16	1.46	1.52
1	1Z	191	VAL	C-O	-5.16	1.18	1.24
1	lh	53	ASN	CA-CB	5.16	1.61	1.53
1	li	98	GLU	CA-CB	5.16	1.61	1.53
1	lm	200	THR	CA-C	5.16	1.59	1.52
1	lH	10	MET	C-O	-5.16	1.17	1.23
1	2C	177	ALA	C-N	5.16	1.40	1.33
1	2U	125	PRO	N-CD	-5.16	1.40	1.47
1	3p	205	LEU	CA-CB	-5.16	1.44	1.53
1	3E	143	ARG	CD-NE	5.16	1.53	1.46
1	3M	161	PHE	CA-CB	5.16	1.61	1.53
1	4c	60	GLY	CA-C	-5.16	1.44	1.51
1	4g	167	ARG	CD-NE	5.16	1.53	1.46
1	4J	224	PRO	C-N	5.16	1.40	1.33
1	4O	34	PRO	CA-CB	5.16	1.62	1.53
1	4Q	147	PRO	C-O	-5.16	1.17	1.24
1	4Z	159	GLU	CA-C	5.16	1.58	1.52
1	59	65	ALA	C-O	-5.16	1.17	1.24
1	5e	129	ILE	C-O	-5.16	1.18	1.24
1	6k	227	LYS	CA-CB	5.16	1.61	1.53
1	6x	106	GLY	C-N	5.16	1.40	1.33
1	6K	12	HIS	CG-CD2	-5.16	1.30	1.35
1	6K	84	HIS	CD2-NE2	5.16	1.43	1.37
1	7j	84	HIS	CB-CG	-5.16	1.43	1.50
1	8f	84	HIS	ND1-CE1	5.16	1.37	1.32
1	8o	54	THR	CA-C	-5.16	1.46	1.52
1	8D	77	ALA	C-N	5.16	1.40	1.33
1	9b	15	ILE	CA-CB	5.16	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ag	178	SER	C-N	5.16	1.40	1.33
1	ak	137	GLY	C-N	5.16	1.40	1.33
1	al	67	GLN	C-O	-5.16	1.18	1.24
1	ap	58	THR	CA-C	-5.16	1.46	1.52
1	12	143	ARG	CD-NE	5.16	1.53	1.46
1	aw	107	THR	N-CA	-5.16	1.40	1.46
1	ba	148	THR	CA-CB	5.16	1.63	1.53
1	17	132	ARG	CZ-NH2	-5.16	1.26	1.33
1	bk	30	LYS	CA-CB	5.16	1.61	1.53
1	bK	106	GLY	N-CA	5.16	1.52	1.45
1	bT	13	GLN	C-N	5.16	1.40	1.33
1	bY	41	SER	C-N	5.16	1.40	1.33
1	cq	178	SER	C-O	-5.16	1.17	1.23
1	cN	92	GLU	CA-C	5.16	1.58	1.52
1	dg	106	GLY	CA-C	5.16	1.59	1.51
1	dg	176	GLN	CA-CB	5.16	1.61	1.53
1	dr	188	THR	CA-CB	5.16	1.61	1.53
1	dO	24	VAL	CA-C	-5.16	1.46	1.52
1	dZ	34	PRO	N-CD	-5.16	1.40	1.47
1	eC	61	GLY	N-CA	5.16	1.52	1.45
1	eP	183	ASN	CA-CB	5.16	1.61	1.53
1	fc	5	ASN	C-N	5.16	1.40	1.33
1	ff	72	THR	CA-C	-5.16	1.46	1.52
1	fV	180	GLU	CA-CB	5.16	1.61	1.53
1	fZ	90	PRO	CA-CB	-5.16	1.46	1.53
1	B	65	ALA	N-CA	-5.16	1.40	1.46
1	D	63	GLN	C-N	5.16	1.41	1.33
1	gd	7	GLN	C-N	5.16	1.41	1.33
1	gF	2	ILE	C-N	5.16	1.39	1.33
1	gI	167	ARG	NE-CZ	-5.16	1.27	1.33
1	gN	11	VAL	C-O	-5.16	1.17	1.23
1	gR	133	TRP	NE1-CE2	5.16	1.43	1.37
1	hn	17	PRO	CA-CB	5.16	1.61	1.53
1	hx	135	ILE	N-CA	-5.16	1.40	1.46
1	hQ	114	GLN	C-N	5.16	1.40	1.33
1	i3	141	ILE	C-N	5.16	1.39	1.34
1	it	59	VAL	N-CA	5.16	1.52	1.46
1	iy	101	GLY	C-O	5.16	1.29	1.23
1	1R	187	GLU	CA-CB	5.16	1.61	1.53
1	jq	83	LEU	C-N	5.16	1.37	1.33
1	jt	96	MET	C-N	5.16	1.39	1.33
1	jE	231	LEU	CA-CB	5.16	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jQ	107	THR	CA-C	5.16	1.59	1.52
1	21	155	GLN	CA-C	-5.16	1.46	1.52
1	kA	172	LEU	CA-C	5.16	1.59	1.52
1	kR	177	ALA	C-N	5.16	1.40	1.33
1	lo	80	TRP	C-N	5.16	1.40	1.33
1	lz	181	VAL	CA-CB	5.16	1.60	1.54
1	lH	84	HIS	CE1-NE2	-5.16	1.27	1.32
1	lL	78	ALA	N-CA	-5.16	1.40	1.46
1	2b	87	HIS	CA-CB	5.16	1.61	1.53
1	2j	211	LEU	C-N	5.16	1.40	1.33
1	2n	109	SER	N-CA	5.16	1.52	1.46
1	2r	165	VAL	N-CA	5.16	1.52	1.46
1	2r	213	GLU	CA-CB	5.16	1.61	1.53
1	2H	145	TYR	CA-CB	5.16	1.61	1.53
1	2R	229	ARG	CD-NE	5.16	1.53	1.46
1	3V	213	GLU	CA-CB	5.16	1.61	1.53
1	4j	32	PHE	CA-CB	-5.16	1.45	1.53
1	4j	155	GLN	CA-CB	5.16	1.61	1.53
1	4m	54	THR	CA-C	-5.16	1.46	1.52
1	4A	184	TRP	CA-C	-5.16	1.46	1.52
1	4O	209	ALA	C-N	5.16	1.40	1.33
1	4Q	133	TRP	N-CA	-5.16	1.40	1.46
1	4T	164	TYR	C-N	5.16	1.40	1.33
1	4T	192	GLN	N-CA	-5.16	1.39	1.46
1	58	217	ALA	CA-CB	-5.16	1.45	1.53
1	5c	140	LYS	CA-C	5.16	1.59	1.52
1	5v	105	ALA	CA-C	5.16	1.59	1.52
1	5x	44	SER	N-CA	5.16	1.53	1.46
1	5U	185	MET	C-O	-5.16	1.18	1.24
1	6g	41	SER	N-CA	5.16	1.52	1.46
1	6g	98	GLU	CA-CB	5.16	1.60	1.53
1	6k	147	PRO	N-CA	-5.16	1.40	1.47
1	6n	14	ALA	N-CA	-5.16	1.39	1.45
1	6P	160	PRO	C-N	5.16	1.40	1.33
1	78	115	ILE	N-CA	-5.16	1.40	1.46
1	79	149	SER	N-CA	-5.16	1.39	1.45
1	7a	172	LEU	CB-CG	5.16	1.63	1.53
1	7t	120	HIS	C-N	5.16	1.39	1.33
1	7u	173	ARG	CD-NE	5.16	1.53	1.46
1	7w	152	ASP	CA-CB	5.16	1.61	1.53
1	7x	3	VAL	CA-CB	5.16	1.61	1.54
1	7N	58	THR	CA-C	5.16	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7O	229	ARG	CD-NE	5.16	1.53	1.46
1	7R	145	TYR	N-CA	5.16	1.52	1.45
1	80	75	GLU	CA-CB	5.16	1.61	1.53
1	82	229	ARG	CA-CB	5.16	1.60	1.53
1	8n	136	LEU	N-CA	-5.16	1.40	1.46
1	8p	25	LYS	CA-CB	5.16	1.61	1.53
1	8P	7	GLN	C-N	5.16	1.41	1.33
1	8Y	22	ALA	C-O	-5.16	1.18	1.24
1	99	20	LEU	CA-C	-5.16	1.46	1.52
1	9e	189	LEU	CA-CB	5.16	1.61	1.53
1	9u	56	LEU	CA-CB	5.16	1.61	1.53
1	af	227	LYS	CA-CB	5.16	1.62	1.53
1	12	102	SER	CA-C	5.16	1.59	1.52
1	ax	178	SER	CA-CB	5.16	1.62	1.53
1	aE	198	CYS	N-CA	-5.16	1.40	1.46
1	aG	168	PHE	CA-C	5.16	1.59	1.52
1	aH	114	GLN	C-N	5.16	1.40	1.33
1	aL	180	GLU	C-N	5.16	1.40	1.33
1	bb	97	ARG	CD-NE	5.16	1.53	1.46
1	18	165	VAL	N-CA	-5.16	1.40	1.46
1	bt	71	GLU	C-O	-5.16	1.18	1.24
1	bV	226	HIS	CG-CD2	5.16	1.41	1.35
1	c2	223	GLY	CA-C	5.16	1.59	1.51
1	cb	182	LYS	C-N	5.16	1.40	1.33
1	cj	126	VAL	C-N	5.16	1.40	1.33
1	cC	42	ALA	C-N	5.16	1.41	1.34
1	d0	152	ASP	CA-C	-5.16	1.45	1.52
1	df	37	ILE	CA-CB	5.16	1.57	1.54
1	dD	55	MET	CA-C	5.16	1.59	1.52
1	dM	202	LEU	CA-C	-5.16	1.45	1.52
1	e8	83	LEU	CA-C	5.16	1.59	1.52
1	el	23	TRP	CA-C	5.16	1.59	1.52
1	em	108	THR	CB-OG1	-5.16	1.35	1.43
1	et	63	GLN	CA-C	-5.16	1.46	1.52
1	eG	134	ILE	CA-C	5.16	1.59	1.52
1	eL	96	MET	CA-C	5.16	1.59	1.52
1	eQ	58	THR	C-N	5.16	1.40	1.33
1	f1	229	ARG	CD-NE	5.16	1.53	1.46
1	f2	12	HIS	CG-CD2	5.16	1.41	1.35
1	f2	25	LYS	C-N	5.16	1.40	1.33
1	f5	154	ARG	CA-CB	5.16	1.63	1.54
1	fa	190	LEU	CA-C	-5.16	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fe	121	ASN	CA-C	5.16	1.58	1.52
1	1w	136	LEU	CA-CB	5.16	1.61	1.53
1	fI	38	PRO	N-CA	-5.16	1.41	1.47
1	l	176	GLN	C-N	5.16	1.40	1.33
1	q	221	VAL	C-N	5.16	1.40	1.34
1	t	201	ILE	CA-C	-5.16	1.46	1.52
1	y	208	ALA	N-CA	-5.16	1.39	1.46
1	D	48	THR	N-CA	5.16	1.52	1.46
1	W	113	GLU	N-CA	5.16	1.52	1.46
1	g9	80	TRP	CA-C	-5.15	1.46	1.52
1	gp	195	ASN	CA-C	5.15	1.58	1.53
1	gy	142	VAL	N-CA	-5.15	1.40	1.46
1	gD	100	ARG	CD-NE	5.15	1.53	1.46
1	gJ	138	LEU	N-CA	-5.15	1.40	1.46
1	hs	178	SER	C-N	5.15	1.40	1.33
1	i1	51	ASP	C-N	5.15	1.40	1.33
1	iv	164	TYR	C-N	-5.15	1.27	1.33
1	ix	96	MET	C-N	5.15	1.40	1.33
1	1U	137	GLY	CA-C	5.15	1.58	1.52
1	1V	81	ASP	N-CA	-5.15	1.40	1.46
1	1W	164	TYR	C-N	-5.15	1.27	1.33
1	jD	150	ILE	CA-C	5.15	1.59	1.52
1	jU	33	SER	CA-C	-5.15	1.47	1.52
1	k1	47	ALA	C-N	5.15	1.41	1.33
1	k4	38	PRO	CA-CB	-5.15	1.46	1.53
1	ka	71	GLU	CA-C	5.15	1.59	1.52
1	ka	146	SER	C-N	-5.15	1.27	1.34
1	kT	201	ILE	CB-CG1	5.15	1.63	1.53
1	lg	170	LYS	CA-C	5.15	1.59	1.52
1	lh	85	PRO	C-N	5.15	1.40	1.33
1	lj	68	MET	N-CA	5.15	1.52	1.46
1	2g	184	TRP	CA-CB	5.15	1.61	1.53
1	30	18	ARG	CA-CB	5.15	1.61	1.53
1	3q	166	ASP	N-CA	-5.15	1.40	1.46
1	3M	62	HIS	CB-CG	-5.15	1.43	1.50
1	3O	59	VAL	CA-CB	-5.15	1.48	1.53
1	4d	151	LEU	CA-CB	5.15	1.62	1.53
1	4Q	120	HIS	CA-C	5.15	1.60	1.53
1	5e	213	GLU	CA-CB	5.15	1.61	1.53
1	5Q	160	PRO	CA-CB	-5.15	1.50	1.53
1	5R	158	LYS	CA-C	-5.15	1.45	1.52
1	5Z	33	SER	CA-CB	5.15	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	67	131	LYS	CA-CB	5.15	1.61	1.53
1	6w	82	ARG	CD-NE	5.15	1.53	1.46
1	6H	69	LEU	CA-C	-5.15	1.46	1.52
1	6L	37	ILE	CA-CB	5.15	1.57	1.53
1	6W	18	ARG	CA-C	5.15	1.59	1.52
1	75	97	ARG	CA-CB	5.15	1.61	1.53
1	7a	87	HIS	CB-CG	5.15	1.57	1.50
1	7l	108	THR	CA-CB	5.15	1.61	1.53
1	7C	153	ILE	C-O	-5.15	1.18	1.24
1	8l	186	THR	CA-CB	5.15	1.61	1.53
1	8x	172	LEU	C-N	5.15	1.40	1.33
1	8y	23	TRP	CA-CB	5.15	1.61	1.53
1	8S	145	TYR	CA-CB	5.15	1.60	1.53
1	9c	218	CYS	CA-CB	5.15	1.61	1.53
1	9G	115	ILE	C-O	-5.15	1.18	1.24
1	9L	9	GLN	CA-C	5.15	1.59	1.53
1	17	23	TRP	C-N	5.15	1.40	1.33
1	bF	15	ILE	CA-C	-5.15	1.46	1.52
1	bH	1	PRO	N-CA	5.15	1.54	1.47
1	bH	211	LEU	CA-CB	5.15	1.61	1.53
1	bL	179	GLN	CA-C	5.15	1.59	1.52
1	bR	106	GLY	C-N	5.15	1.40	1.33
1	ch	111	LEU	C-O	-5.15	1.18	1.24
1	cp	51	ASP	C-N	5.15	1.40	1.34
1	da	17	PRO	CA-CB	-5.15	1.45	1.53
1	dk	18	ARG	CA-C	-5.15	1.45	1.52
1	dx	138	LEU	CA-CB	5.15	1.61	1.53
1	1m	225	GLY	CA-C	5.15	1.59	1.51
1	dN	107	THR	CA-C	-5.15	1.45	1.52
1	dX	102	SER	N-CA	-5.15	1.39	1.46
1	1y	141	ILE	C-N	5.15	1.40	1.33
1	d	76	GLU	C-N	5.15	1.40	1.33
1	j	191	VAL	CA-CB	-5.15	1.47	1.54
1	2	201	ILE	C-O	-5.15	1.18	1.24
1	G	215	MET	C-N	5.15	1.40	1.33
1	M	182	LYS	CA-CB	5.15	1.61	1.53
1	g8	215	MET	CA-C	-5.15	1.46	1.52
1	gi	15	ILE	CA-C	5.15	1.58	1.52
1	gq	33	SER	CA-C	5.15	1.59	1.52
1	gs	194	ALA	CA-CB	5.15	1.61	1.53
1	gB	166	ASP	C-O	-5.15	1.18	1.24
1	1E	40	PHE	CA-CB	5.15	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hh	80	TRP	CA-CB	5.15	1.61	1.53
1	i8	231	LEU	N-CA	-5.15	1.36	1.46
1	ic	68	MET	C-O	-5.15	1.18	1.24
1	ih	126	VAL	C-O	-5.15	1.18	1.24
1	ih	220	GLY	C-N	5.15	1.40	1.33
1	1S	187	GLU	N-CA	-5.15	1.39	1.46
1	iX	167	ARG	CA-CB	5.15	1.61	1.53
1	j4	123	PRO	CA-CB	5.15	1.61	1.53
1	j5	199	LYS	CA-CB	5.15	1.61	1.53
1	j7	118	MET	CA-CB	5.15	1.61	1.53
1	1V	133	TRP	C-N	5.15	1.40	1.33
1	ju	57	ASN	N-CA	-5.15	1.39	1.46
1	jD	162	ARG	C-N	5.15	1.40	1.33
1	jL	169	TYR	C-N	-5.15	1.27	1.33
1	jN	104	ILE	CA-C	-5.15	1.45	1.52
1	jO	190	LEU	CA-CB	5.15	1.61	1.53
1	jP	142	VAL	CA-C	-5.15	1.46	1.52
1	kg	190	LEU	CA-CB	5.15	1.61	1.53
1	ku	128	GLU	CA-CB	5.15	1.61	1.53
1	kz	25	LYS	CA-CB	5.15	1.61	1.53
1	23	179	GLN	CA-CB	5.15	1.61	1.53
1	kL	55	MET	C-N	5.15	1.41	1.33
1	kU	114	GLN	CA-CB	5.15	1.61	1.53
1	kZ	112	GLN	C-N	5.15	1.41	1.33
1	28	96	MET	C-N	5.15	1.40	1.33
1	lu	12	HIS	CG-CD2	5.15	1.41	1.35
1	lC	96	MET	N-CA	-5.15	1.40	1.46
1	lE	35	GLU	CA-C	-5.15	1.45	1.52
1	lH	153	ILE	CA-CB	5.15	1.60	1.54
1	lR	84	HIS	CA-CB	5.15	1.60	1.52
1	2B	193	ASN	CA-CB	5.15	1.60	1.53
1	2O	136	LEU	N-CA	-5.15	1.40	1.46
1	3g	198	CYS	N-CA	5.15	1.52	1.46
1	3i	67	GLN	CA-CB	5.15	1.61	1.53
1	3m	74	ASN	CA-CB	5.15	1.61	1.53
1	3n	15	ILE	N-CA	5.15	1.52	1.46
1	3L	59	VAL	N-CA	5.15	1.52	1.46
1	3O	136	LEU	C-O	-5.15	1.18	1.24
1	3Q	63	GLN	C-N	5.15	1.40	1.33
1	4r	187	GLU	N-CA	5.15	1.52	1.46
1	4H	26	VAL	C-O	-5.15	1.18	1.24
1	4H	120	HIS	ND1-CE1	5.15	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4K	10	MET	CA-CB	5.15	1.61	1.53
1	5d	71	GLU	CA-CB	5.15	1.61	1.53
1	5o	84	HIS	ND1-CE1	5.15	1.37	1.32
1	5I	73	ILE	CA-C	5.15	1.59	1.52
1	5L	132	ARG	NE-CZ	5.15	1.38	1.33
1	5P	80	TRP	CA-C	5.15	1.59	1.52
1	5T	17	PRO	N-CA	5.15	1.54	1.47
1	62	10	MET	C-O	5.15	1.30	1.24
1	64	100	ARG	N-CA	-5.15	1.39	1.45
1	6g	113	GLU	CA-C	5.15	1.59	1.52
1	6h	111	LEU	C-N	-5.15	1.26	1.34
1	6i	166	ASP	CA-CB	5.15	1.61	1.53
1	6s	188	THR	CA-C	-5.15	1.45	1.52
1	6F	108	THR	C-N	5.15	1.40	1.33
1	6F	195	ASN	CA-CB	5.15	1.60	1.53
1	7l	124	ILE	CA-C	5.15	1.57	1.53
1	7m	31	ALA	C-O	-5.15	1.19	1.24
1	7u	87	HIS	CD2-NE2	5.15	1.43	1.37
1	7x	181	VAL	CA-CB	5.15	1.60	1.54
1	7C	6	LEU	CA-C	5.15	1.60	1.52
1	7E	87	HIS	C-N	5.15	1.40	1.33
1	7K	87	HIS	CE1-NE2	5.15	1.37	1.32
1	7R	55	MET	CA-C	5.15	1.59	1.52
1	84	100	ARG	CA-CB	5.15	1.60	1.53
1	8e	175	GLU	CA-CB	5.15	1.61	1.53
1	8e	229	ARG	CA-C	5.15	1.59	1.52
1	8k	113	GLU	C-N	5.15	1.41	1.33
1	8n	120	HIS	ND1-CE1	5.15	1.37	1.32
1	8D	33	SER	C-O	-5.15	1.18	1.24
1	8K	103	ASP	CA-CB	5.15	1.61	1.53
1	8M	117	TRP	N-CA	-5.15	1.40	1.46
1	8T	225	GLY	C-N	5.15	1.40	1.33
1	91	35	GLU	CA-C	5.15	1.59	1.52
1	96	228	ALA	CA-C	-5.15	1.46	1.52
1	98	164	TYR	C-N	5.15	1.40	1.33
1	9f	113	GLU	N-CA	5.15	1.52	1.46
1	9l	18	ARG	C-N	5.15	1.40	1.33
1	9w	62	HIS	N-CA	-5.15	1.39	1.46
1	Y	117	TRP	CA-CB	5.15	1.61	1.53
1	Z	167	ARG	C-O	5.15	1.30	1.24
1	a0	70	LYS	CA-C	5.15	1.59	1.52
1	a9	186	THR	N-CA	5.15	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ai	26	VAL	CA-C	5.15	1.59	1.52
1	ak	154	ARG	CA-CB	5.15	1.62	1.53
1	ao	58	THR	N-CA	5.15	1.52	1.46
1	ao	98	GLU	CA-CB	5.15	1.62	1.53
1	aR	161	PHE	N-CA	-5.15	1.40	1.46
1	aZ	174	ALA	N-CA	-5.15	1.39	1.46
1	b5	167	ARG	NE-CZ	5.15	1.38	1.33
1	b9	63	GLN	N-CA	-5.15	1.39	1.46
1	be	146	SER	CA-CB	5.15	1.60	1.53
1	bj	97	ARG	CD-NE	5.15	1.53	1.46
1	bm	102	SER	CA-C	5.15	1.59	1.52
1	bx	206	GLY	C-N	5.15	1.40	1.33
1	bz	44	SER	CA-C	-5.15	1.45	1.52
1	bA	176	GLN	N-CA	5.15	1.52	1.45
1	bN	132	ARG	C-N	5.15	1.40	1.33
1	bR	191	VAL	N-CA	-5.15	1.40	1.46
1	c0	84	HIS	CG-CD2	5.15	1.41	1.35
1	cg	165	VAL	CA-CB	-5.15	1.47	1.54
1	cj	100	ARG	CA-C	5.15	1.60	1.53
1	cK	15	ILE	N-CA	-5.15	1.39	1.46
1	cL	23	TRP	CA-CB	5.15	1.61	1.53
1	1h	197	ASP	C-N	5.15	1.41	1.33
1	da	226	HIS	CA-CB	5.15	1.61	1.53
1	dj	140	LYS	CA-C	-5.15	1.46	1.52
1	dp	88	ALA	N-CA	5.15	1.52	1.45
1	dy	71	GLU	CA-C	5.15	1.59	1.52
1	dy	77	ALA	N-CA	-5.15	1.40	1.46
1	dQ	70	LYS	CA-C	-5.15	1.46	1.52
1	dR	120	HIS	CA-C	5.15	1.59	1.52
1	1n	183	ASN	CA-CB	5.15	1.61	1.53
1	e2	163	ASP	C-O	-5.15	1.18	1.24
1	eI	228	ALA	C-O	5.15	1.30	1.23
1	eO	54	THR	CA-C	-5.15	1.46	1.52
1	1t	184	TRP	CA-C	5.15	1.59	1.52
1	fb	52	LEU	CA-CB	5.15	1.61	1.53
1	fd	125	PRO	C-O	-5.15	1.17	1.24
1	fn	154	ARG	CD-NE	5.15	1.53	1.46
1	h	26	VAL	N-CA	5.15	1.52	1.46
1	h	154	ARG	CZ-NH2	-5.15	1.26	1.33
1	u	208	ALA	C-O	5.15	1.30	1.23
1	E	209	ALA	CA-C	5.15	1.59	1.52
1	L	163	ASP	CA-C	-5.15	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	102	SER	CA-C	5.15	1.59	1.52
1	4	86	VAL	CA-C	-5.15	1.46	1.52
1	gc	130	TYR	CA-CB	5.15	1.61	1.53
1	gr	58	THR	CA-C	-5.15	1.45	1.52
1	gD	184	TRP	CA-CB	5.15	1.61	1.53
1	h8	120	HIS	CB-CG	5.15	1.57	1.50
1	hd	173	ARG	CD-NE	5.15	1.53	1.46
1	hf	52	LEU	CA-C	-5.15	1.46	1.52
1	hk	19	THR	C-N	5.15	1.40	1.33
1	hp	132	ARG	CD-NE	5.15	1.53	1.46
1	hx	200	THR	C-N	5.15	1.40	1.33
1	hE	84	HIS	CA-C	5.15	1.59	1.52
1	hI	24	VAL	N-CA	5.15	1.52	1.46
1	i5	49	PRO	N-CD	-5.15	1.40	1.47
1	ib	38	PRO	CA-CB	5.15	1.61	1.53
1	ic	215	MET	CA-CB	5.15	1.61	1.53
1	im	114	GLN	N-CA	-5.15	1.40	1.46
1	iq	23	TRP	NE1-CE2	-5.15	1.31	1.37
1	it	5	ASN	N-CA	5.15	1.52	1.45
1	iv	2	ILE	C-N	5.15	1.40	1.33
1	iP	102	SER	C-N	5.15	1.41	1.34
1	iP	215	MET	N-CA	5.15	1.52	1.46
1	js	66	MET	N-CA	-5.15	1.39	1.46
1	jx	84	HIS	ND1-CE1	5.15	1.37	1.32
1	jQ	214	MET	CA-CB	5.15	1.61	1.53
1	jX	101	GLY	CA-C	-5.15	1.46	1.52
1	k2	221	VAL	CA-C	5.15	1.58	1.52
1	k6	31	ALA	CA-CB	5.15	1.61	1.53
1	ks	204	ALA	CA-C	5.15	1.59	1.52
1	22	70	LYS	CA-CB	5.15	1.61	1.53
1	kz	120	HIS	ND1-CE1	5.15	1.37	1.32
1	kN	18	ARG	C-O	-5.15	1.18	1.24
1	kR	86	VAL	CA-C	5.15	1.59	1.52
1	kW	211	LEU	CA-CB	5.15	1.61	1.53
1	lo	149	SER	N-CA	5.15	1.52	1.45
1	lx	76	GLU	CA-CB	5.15	1.61	1.53
1	ly	99	PRO	CA-CB	-5.15	1.46	1.53
1	ly	224	PRO	CA-CB	-5.15	1.46	1.53
1	2d	203	LYS	C-O	-5.15	1.18	1.24
1	2l	154	ARG	CA-C	5.15	1.59	1.52
1	2n	27	VAL	CA-C	-5.15	1.46	1.52
1	2E	165	VAL	CA-CB	5.15	1.60	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3f	87	HIS	ND1-CE1	5.15	1.37	1.32
1	3l	119	THR	CA-CB	5.15	1.62	1.53
1	3S	231	LEU	CB-CG	5.15	1.63	1.53
1	41	77	ALA	CA-C	5.15	1.59	1.52
1	4e	109	SER	CA-C	-5.15	1.46	1.52
1	4h	6	LEU	CA-CB	5.15	1.61	1.53
1	4o	3	VAL	C-O	5.15	1.29	1.24
1	4v	168	PHE	CA-CB	5.15	1.61	1.53
1	4X	47	ALA	CA-C	5.15	1.59	1.52
1	5k	134	ILE	CA-CB	-5.15	1.48	1.54
1	5s	132	ARG	CA-CB	5.15	1.61	1.53
1	5C	164	TYR	CA-CB	5.15	1.61	1.53
1	60	90	PRO	CA-CB	5.15	1.60	1.53
1	60	109	SER	CA-C	-5.15	1.46	1.52
1	6d	5	ASN	C-N	5.15	1.40	1.33
1	6g	73	ILE	N-CA	-5.15	1.40	1.46
1	6g	184	TRP	NE1-CE2	5.15	1.43	1.37
1	6q	201	ILE	CA-CB	-5.15	1.48	1.54
1	6s	17	PRO	CA-CB	-5.15	1.46	1.53
1	6t	152	ASP	N-CA	5.15	1.52	1.46
1	6A	99	PRO	CA-C	5.15	1.58	1.52
1	6P	24	VAL	N-CA	-5.15	1.40	1.46
1	6R	212	GLU	C-O	-5.15	1.18	1.24
1	78	92	GLU	N-CA	5.15	1.53	1.46
1	7e	82	ARG	CD-NE	5.15	1.53	1.46
1	7g	13	GLN	CA-CB	5.15	1.61	1.53
1	7g	69	LEU	CB-CG	5.15	1.63	1.53
1	7M	132	ARG	CD-NE	5.15	1.53	1.46
1	80	23	TRP	N-CA	-5.15	1.40	1.46
1	86	222	GLY	C-N	5.15	1.41	1.33
1	87	173	ARG	CA-C	5.15	1.59	1.52
1	88	92	GLU	N-CA	-5.15	1.39	1.45
1	88	156	GLY	C-N	5.15	1.40	1.34
1	8a	158	LYS	CA-CB	5.15	1.61	1.53
1	8j	45	GLU	CA-C	5.15	1.59	1.52
1	8m	55	MET	CA-C	5.15	1.59	1.52
1	8w	83	LEU	CA-C	-5.15	1.45	1.52
1	8I	131	LYS	C-N	5.15	1.40	1.33
1	8L	52	LEU	N-CA	-5.15	1.40	1.46
1	95	82	ARG	CZ-NH1	-5.15	1.25	1.32
1	9e	196	PRO	CA-CB	-5.15	1.46	1.53
1	9n	41	SER	N-CA	5.15	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9n	121	ASN	CA-C	5.15	1.58	1.52
1	9t	78	ALA	CA-CB	5.15	1.61	1.53
1	9u	49	PRO	CA-C	5.15	1.59	1.52
1	9v	184	TRP	N-CA	-5.15	1.40	1.46
1	9J	69	LEU	N-CA	-5.15	1.40	1.46
1	9W	198	CYS	N-CA	-5.15	1.40	1.46
1	11	164	TYR	CB-CG	-5.15	1.40	1.51
1	av	8	GLY	N-CA	5.15	1.52	1.45
1	aw	75	GLU	CA-C	-5.15	1.46	1.52
1	b3	7	GLN	CA-C	5.15	1.58	1.52
1	b7	175	GLU	CA-C	5.15	1.59	1.52
1	b8	182	LYS	CA-C	-5.15	1.46	1.52
1	bn	140	LYS	CA-C	5.15	1.59	1.52
1	bC	33	SER	CA-CB	5.15	1.60	1.53
1	bD	189	LEU	C-O	-5.15	1.17	1.24
1	c5	142	VAL	CA-CB	-5.15	1.48	1.54
1	c9	224	PRO	N-CD	-5.15	1.40	1.47
1	ca	23	TRP	CA-C	5.15	1.59	1.52
1	cp	169	TYR	CZ-OH	5.15	1.48	1.38
1	ct	84	HIS	CB-CG	5.15	1.57	1.50
1	cZ	97	ARG	NE-CZ	-5.15	1.27	1.33
1	d6	231	LEU	CA-CB	5.15	1.63	1.53
1	dd	108	THR	N-CA	-5.15	1.40	1.46
1	dp	175	GLU	CA-C	5.15	1.59	1.52
1	dS	231	LEU	CA-CB	5.15	1.63	1.53
1	dW	145	TYR	N-CA	-5.15	1.39	1.46
1	dW	151	LEU	C-N	5.15	1.41	1.33
1	e8	16	SER	C-N	-5.15	1.27	1.34
1	1p	2	ILE	N-CA	-5.15	1.40	1.46
1	ek	102	SER	CA-CB	-5.15	1.45	1.53
1	en	194	ALA	CA-CB	5.15	1.61	1.53
1	en	210	THR	CA-C	-5.15	1.45	1.53
1	eo	111	LEU	C-N	5.15	1.40	1.33
1	ey	207	PRO	N-CA	-5.15	1.41	1.47
1	eI	173	ARG	CD-NE	5.15	1.53	1.46
1	eS	171	THR	N-CA	-5.15	1.39	1.46
1	f0	83	LEU	CA-CB	5.15	1.61	1.53
1	1w	207	PRO	N-CA	-5.15	1.41	1.47
1	fk	14	ALA	C-N	5.15	1.40	1.33
1	fC	103	ASP	C-N	5.15	1.40	1.33
1	g7	148	THR	C-N	5.15	1.40	1.33
1	h	224	PRO	N-CD	-5.15	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i	71	GLU	CA-C	-5.15	1.46	1.52
1	q	196	PRO	C-N	5.15	1.41	1.33
1	s	5	ASN	C-N	5.15	1.40	1.33
1	4	69	LEU	CA-C	-5.15	1.46	1.52
1	g9	120	HIS	C-O	-5.15	1.17	1.23
1	gj	63	GLN	C-N	5.15	1.40	1.33
1	gy	153	ILE	C-N	-5.15	1.26	1.33
1	gZ	188	THR	N-CA	-5.15	1.41	1.46
1	hi	53	ASN	N-CA	5.15	1.52	1.46
1	hj	166	ASP	CA-CB	5.15	1.61	1.53
1	hx	204	ALA	CA-C	5.15	1.59	1.52
1	hS	168	PHE	CA-C	5.15	1.59	1.52
1	i3	160	PRO	CA-C	-5.15	1.46	1.52
1	ir	186	THR	CA-C	-5.15	1.46	1.52
1	it	187	GLU	CA-CB	5.15	1.62	1.53
1	iy	132	ARG	C-N	5.15	1.41	1.34
1	iB	11	VAL	C-O	-5.15	1.18	1.24
1	j8	195	ASN	CA-C	5.15	1.59	1.53
1	jn	176	GLN	C-N	-5.15	1.26	1.33
1	jp	176	GLN	CA-C	5.15	1.60	1.52
1	jG	202	LEU	CA-C	-5.15	1.46	1.52
1	kt	146	SER	N-CA	5.15	1.54	1.46
1	kR	18	ARG	CD-NE	5.15	1.53	1.46
1	la	133	TRP	CA-CB	5.15	1.61	1.53
1	lr	18	ARG	CD-NE	5.15	1.53	1.46
1	2Q	229	ARG	N-CA	5.15	1.52	1.46
1	2V	81	ASP	C-N	5.15	1.40	1.33
1	3l	183	ASN	CA-CB	5.15	1.61	1.53
1	3m	14	ALA	CA-CB	5.15	1.61	1.53
1	3q	123	PRO	C-O	-5.15	1.17	1.23
1	3V	84	HIS	CD2-NE2	5.15	1.43	1.37
1	4n	142	VAL	CA-CB	-5.15	1.47	1.54
1	4y	56	LEU	CB-CG	5.15	1.63	1.53
1	4Z	178	SER	CA-C	-5.15	1.46	1.53
1	56	167	ARG	N-CA	5.15	1.52	1.46
1	5k	82	ARG	N-CA	5.15	1.52	1.46
1	5I	161	PHE	CA-CB	-5.15	1.45	1.53
1	5Z	100	ARG	CD-NE	5.15	1.53	1.46
1	6y	47	ALA	C-O	-5.15	1.17	1.23
1	7f	77	ALA	CA-C	5.15	1.59	1.52
1	7S	197	ASP	N-CA	-5.15	1.40	1.46
1	8n	33	SER	CA-C	-5.15	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8r	9	GLN	N-CA	5.15	1.52	1.46
1	99	78	ALA	N-CA	-5.15	1.40	1.46
1	9m	62	HIS	CA-CB	5.15	1.61	1.53
1	9q	102	SER	N-CA	5.15	1.52	1.46
1	9V	157	PRO	CA-CB	5.15	1.61	1.53
1	Z	184	TRP	CA-C	5.15	1.59	1.52
1	am	42	ALA	N-CA	-5.15	1.39	1.46
1	an	107	THR	C-O	5.15	1.30	1.24
1	14	92	GLU	CA-C	5.15	1.59	1.52
1	aT	97	ARG	NE-CZ	5.15	1.38	1.33
1	15	36	VAL	CA-C	5.15	1.59	1.52
1	b3	230	VAL	C-N	5.15	1.40	1.33
1	16	121	ASN	CA-C	5.15	1.59	1.52
1	17	152	ASP	N-CA	5.15	1.52	1.46
1	bx	66	MET	CA-C	5.15	1.59	1.52
1	bx	105	ALA	C-N	5.15	1.41	1.33
1	bz	3	VAL	C-N	-5.15	1.26	1.34
1	cK	71	GLU	CA-C	5.15	1.59	1.52
1	da	7	GLN	CA-CB	5.15	1.62	1.53
1	di	221	VAL	C-N	5.15	1.39	1.33
1	dT	208	ALA	C-N	5.15	1.40	1.33
1	e7	206	GLY	N-CA	5.15	1.50	1.43
1	eB	115	ILE	CA-C	5.15	1.59	1.52
1	1v	98	GLU	CA-CB	5.15	1.61	1.52
1	fv	93	PRO	CA-CB	5.15	1.61	1.53
1	v	3	VAL	N-CA	-5.15	1.40	1.46
1	B	57	ASN	C-O	-5.15	1.16	1.23
1	6	145	TYR	N-CA	-5.15	1.40	1.46
1	9	11	VAL	N-CA	-5.15	1.39	1.46
1	1C	26	VAL	CA-CB	-5.15	1.48	1.54
1	gi	90	PRO	C-O	-5.15	1.17	1.24
1	go	26	VAL	C-N	5.15	1.40	1.33
1	gH	225	GLY	N-CA	5.15	1.52	1.45
1	h0	192	GLN	N-CA	5.15	1.53	1.46
1	h4	106	GLY	N-CA	5.15	1.52	1.45
1	h7	111	LEU	CA-C	5.15	1.59	1.52
1	hg	116	GLY	N-CA	5.15	1.52	1.45
1	hk	91	ILE	N-CA	-5.15	1.39	1.46
1	hv	84	HIS	C-N	5.15	1.40	1.33
1	hB	190	LEU	CA-CB	5.15	1.61	1.53
1	hD	172	LEU	C-O	5.15	1.30	1.24
1	hY	171	THR	C-N	5.15	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hY	186	THR	CA-C	5.15	1.59	1.52
1	hY	208	ALA	CA-CB	-5.15	1.45	1.53
1	ib	36	VAL	C-N	5.15	1.42	1.33
1	is	34	PRO	CA-C	-5.15	1.43	1.52
1	iw	140	LYS	C-N	5.15	1.40	1.33
1	iD	201	ILE	N-CA	5.15	1.52	1.46
1	iF	141	ILE	N-CA	5.15	1.52	1.46
1	iL	215	MET	CA-C	5.15	1.59	1.52
1	iM	230	VAL	C-N	-5.15	1.26	1.33
1	j3	166	ASP	CA-C	5.15	1.59	1.52
1	j9	52	LEU	N-CA	-5.15	1.40	1.46
1	jj	132	ARG	C-N	5.15	1.40	1.33
1	jp	79	GLU	N-CA	-5.15	1.39	1.46
1	js	183	ASN	CA-CB	5.15	1.61	1.53
1	jy	194	ALA	CA-C	5.15	1.60	1.53
1	jK	155	GLN	CA-C	-5.15	1.46	1.52
1	k2	52	LEU	CA-C	5.15	1.59	1.52
1	k2	101	GLY	CA-C	5.15	1.57	1.52
1	kb	2	ILE	N-CA	-5.15	1.40	1.46
1	kh	220	GLY	CA-C	-5.15	1.44	1.51
1	kp	133	TRP	NE1-CE2	-5.15	1.31	1.37
1	kv	175	GLU	CA-C	5.15	1.58	1.52
1	kz	165	VAL	N-CA	-5.15	1.39	1.46
1	kM	167	ARG	N-CA	-5.15	1.40	1.46
1	kW	22	ALA	N-CA	-5.15	1.40	1.46
1	l3	148	THR	CA-CB	5.15	1.61	1.53
1	l7	134	ILE	CA-C	5.15	1.59	1.52
1	26	199	LYS	N-CA	-5.15	1.39	1.46
1	la	180	GLU	C-N	5.15	1.40	1.33
1	lq	224	PRO	C-N	5.15	1.40	1.33
1	lO	82	ARG	CA-CB	5.15	1.61	1.53
1	2b	92	GLU	CA-C	5.15	1.57	1.52
1	2l	224	PRO	C-N	5.15	1.39	1.33
1	2v	183	ASN	C-N	5.15	1.40	1.33
1	2w	112	GLN	CA-C	-5.15	1.46	1.52
1	2D	132	ARG	N-CA	5.15	1.52	1.46
1	2D	226	HIS	CE1-NE2	5.15	1.37	1.32
1	2G	224	PRO	CA-CB	-5.15	1.46	1.53
1	2L	57	ASN	CA-CB	5.15	1.62	1.53
1	3q	185	MET	N-CA	-5.15	1.40	1.46
1	3s	133	TRP	CA-CB	5.15	1.61	1.53
1	3I	186	THR	C-N	5.15	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3P	23	TRP	NE1-CE2	5.15	1.43	1.37
1	45	102	SER	CA-CB	5.15	1.61	1.53
1	46	34	PRO	N-CD	-5.15	1.40	1.47
1	4d	65	ALA	CA-C	5.15	1.59	1.52
1	4A	82	ARG	C-N	5.15	1.40	1.33
1	54	6	LEU	CA-CB	5.15	1.61	1.53
1	5b	185	MET	CA-CB	5.15	1.61	1.53
1	5h	85	PRO	N-CD	5.15	1.54	1.47
1	5j	223	GLY	CA-C	5.15	1.59	1.51
1	5k	200	THR	CA-CB	-5.15	1.45	1.53
1	5p	52	LEU	CA-CB	-5.15	1.45	1.53
1	5t	227	LYS	C-O	-5.15	1.17	1.24
1	5E	154	ARG	C-N	-5.15	1.26	1.33
1	6k	90	PRO	CA-C	-5.15	1.46	1.52
1	6G	81	ASP	N-CA	5.15	1.52	1.46
1	6S	69	LEU	C-O	-5.15	1.18	1.24
1	6Y	140	LYS	CA-C	5.15	1.59	1.52
1	70	36	VAL	CA-CB	5.15	1.61	1.54
1	79	211	LEU	CA-CB	5.15	1.62	1.53
1	7a	207	PRO	C-N	-5.15	1.27	1.33
1	7B	74	ASN	CA-CB	5.15	1.61	1.53
1	7J	160	PRO	CA-CB	5.15	1.61	1.53
1	7X	27	VAL	N-CA	5.15	1.52	1.46
1	8U	29	GLU	N-CA	5.15	1.52	1.46
1	8V	118	MET	CA-CB	5.15	1.61	1.53
1	8Z	89	GLY	N-CA	5.15	1.51	1.44
1	95	51	ASP	N-CA	5.15	1.52	1.46
1	9B	6	LEU	CA-C	5.15	1.59	1.52
1	9K	13	GLN	C-O	-5.15	1.17	1.23
1	9U	186	THR	CA-CB	5.15	1.62	1.53
1	Z	87	HIS	ND1-CE1	5.15	1.37	1.32
1	a2	85	PRO	C-N	5.15	1.40	1.33
1	a3	223	GLY	N-CA	5.15	1.51	1.44
1	a6	179	GLN	C-N	5.15	1.40	1.33
1	af	180	GLU	N-CA	5.15	1.52	1.46
1	aL	157	PRO	N-CD	5.15	1.54	1.47
1	aM	71	GLU	CA-C	-5.15	1.46	1.52
1	aN	50	GLN	CA-CB	5.15	1.61	1.53
1	14	20	LEU	CA-CB	5.15	1.61	1.53
1	aU	38	PRO	C-O	-5.15	1.18	1.24
1	aX	39	MET	CA-C	-5.15	1.46	1.52
1	aZ	61	GLY	CA-C	-5.15	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bh	84	HIS	C-N	5.15	1.45	1.33
1	bF	112	GLN	CA-CB	5.15	1.61	1.53
1	1b	163	ASP	N-CA	-5.15	1.40	1.46
1	c4	39	MET	CA-CB	5.15	1.61	1.53
1	ct	120	HIS	CD2-NE2	-5.15	1.32	1.37
1	cH	162	ARG	C-N	5.15	1.40	1.33
1	cI	143	ARG	CA-CB	5.15	1.61	1.53
1	d5	115	ILE	C-O	-5.15	1.18	1.24
1	dj	136	LEU	N-CA	-5.15	1.40	1.46
1	dC	61	GLY	N-CA	5.15	1.49	1.44
1	dE	86	VAL	CA-C	5.15	1.58	1.52
1	e1	97	ARG	C-N	-5.15	1.25	1.33
1	e2	134	ILE	CA-CB	-5.15	1.48	1.54
1	e3	150	ILE	CA-C	5.15	1.58	1.52
1	e4	82	ARG	N-CA	5.15	1.52	1.46
1	er	12	HIS	ND1-CE1	5.15	1.37	1.32
1	et	178	SER	CA-CB	5.15	1.62	1.53
1	eC	164	TYR	C-N	5.15	1.40	1.33
1	eE	27	VAL	CA-C	-5.15	1.46	1.52
1	f1	139	ASN	C-N	5.15	1.40	1.34
1	f4	84	HIS	CB-CG	5.15	1.57	1.50
1	ff	96	MET	C-N	5.15	1.40	1.33
1	fk	33	SER	CA-C	5.15	1.58	1.52
1	fB	67	GLN	N-CA	-5.15	1.40	1.46
1	fE	175	GLU	CA-C	5.15	1.59	1.52
1	e	226	HIS	C-N	5.15	1.40	1.33
1	V	39	MET	C-N	5.15	1.41	1.34
1	gg	213	GLU	CA-C	5.15	1.59	1.52
1	gh	139	ASN	N-CA	-5.15	1.40	1.46
1	gD	99	PRO	N-CA	-5.15	1.40	1.47
1	gM	30	LYS	C-N	5.15	1.40	1.33
1	gZ	19	THR	C-O	-5.15	1.17	1.24
1	hu	223	GLY	N-CA	5.15	1.51	1.44
1	js	84	HIS	CD2-NE2	5.15	1.43	1.37
1	ju	62	HIS	CG-CD2	5.15	1.41	1.35
1	jD	228	ALA	C-N	5.15	1.40	1.33
1	kF	54	THR	CA-CB	-5.15	1.45	1.53
1	kI	155	GLN	C-O	-5.15	1.17	1.23
1	kM	19	THR	CA-CB	5.15	1.61	1.53
1	2g	218	CYS	C-N	-5.15	1.27	1.34
1	2u	46	GLY	C-N	5.15	1.40	1.33
1	33	72	THR	CA-C	-5.15	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3t	23	TRP	NE1-CE2	5.15	1.43	1.37
1	3K	53	ASN	C-O	-5.15	1.17	1.24
1	46	199	LYS	C-N	5.15	1.40	1.33
1	4Q	107	THR	N-CA	-5.15	1.39	1.46
1	5o	82	ARG	CD-NE	5.15	1.53	1.46
1	5F	186	THR	CA-CB	5.15	1.61	1.53
1	6J	132	ARG	N-CA	5.15	1.52	1.46
1	6U	214	MET	N-CA	-5.15	1.40	1.46
1	7v	99	PRO	CA-CB	5.15	1.60	1.53
1	7K	107	THR	C-O	-5.15	1.18	1.24
1	8j	3	VAL	N-CA	5.15	1.52	1.46
1	8k	86	VAL	C-N	5.15	1.40	1.33
1	91	151	LEU	CA-CB	5.15	1.61	1.53
1	9l	48	THR	CA-CB	-5.15	1.44	1.53
1	9K	191	VAL	CA-CB	-5.15	1.47	1.54
1	9Z	193	ASN	N-CA	5.15	1.52	1.46
1	ao	23	TRP	CD2-CE3	-5.15	1.32	1.40
1	14	25	LYS	N-CA	-5.15	1.40	1.46
1	1a	151	LEU	C-N	-5.15	1.26	1.33
1	bV	212	GLU	CA-C	5.15	1.59	1.52
1	cg	49	PRO	N-CA	-5.15	1.40	1.47
1	cz	16	SER	C-N	5.15	1.40	1.34
1	cF	109	SER	C-N	5.15	1.40	1.33
1	d3	91	ILE	CA-C	-5.15	1.45	1.52
1	do	27	VAL	C-N	5.15	1.41	1.33
1	dL	123	PRO	CA-CB	5.15	1.61	1.53
1	1o	11	VAL	CA-C	5.15	1.58	1.52
1	e6	120	HIS	CG-ND1	-5.15	1.32	1.38
1	eV	134	ILE	CA-CB	-5.15	1.48	1.54
1	f8	115	ILE	CA-CB	-5.15	1.48	1.54
1	fA	163	ASP	CA-C	5.15	1.59	1.52
1	g1	40	PHE	C-O	5.15	1.30	1.24
1	t	160	PRO	CA-CB	5.15	1.60	1.53
1	X	53	ASN	CA-CB	5.15	1.61	1.53
1	1C	183	ASN	C-N	5.14	1.40	1.33
1	1C	186	THR	C-N	5.14	1.41	1.33
1	gU	150	ILE	CA-C	5.14	1.60	1.52
1	h0	59	VAL	CA-C	-5.14	1.46	1.52
1	hc	84	HIS	CB-CG	5.14	1.57	1.50
1	hl	155	GLN	N-CA	-5.14	1.39	1.45
1	1J	36	VAL	CA-C	5.14	1.59	1.52
1	hx	27	VAL	C-O	-5.14	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hG	169	TYR	C-N	5.14	1.41	1.33
1	hH	224	PRO	CA-C	5.14	1.59	1.52
1	hO	71	GLU	C-O	5.14	1.30	1.24
1	i2	164	TYR	C-N	5.14	1.40	1.33
1	id	86	VAL	N-CA	5.14	1.52	1.46
1	1O	204	ALA	C-O	5.14	1.30	1.24
1	ik	211	LEU	CA-C	5.14	1.59	1.52
1	in	143	ARG	NE-CZ	-5.14	1.27	1.33
1	1R	35	GLU	CA-C	-5.14	1.45	1.52
1	iK	120	HIS	CB-CG	-5.14	1.43	1.50
1	iO	224	PRO	C-O	5.14	1.30	1.24
1	iR	182	LYS	C-O	-5.14	1.18	1.24
1	j2	80	TRP	CA-CB	5.14	1.61	1.53
1	j3	207	PRO	N-CD	-5.14	1.40	1.47
1	j5	189	LEU	N-CA	-5.14	1.40	1.46
1	jB	62	HIS	CG-ND1	5.14	1.44	1.38
1	jQ	203	LYS	CA-CB	5.14	1.62	1.53
1	jS	171	THR	CA-C	5.14	1.59	1.52
1	kg	139	ASN	N-CA	-5.14	1.40	1.46
1	kJ	85	PRO	C-O	-5.14	1.18	1.23
1	kJ	140	LYS	CA-C	5.14	1.59	1.52
1	kN	81	ASP	CA-C	-5.14	1.46	1.52
1	kY	116	GLY	CA-C	5.14	1.57	1.52
1	l3	120	HIS	C-N	5.14	1.39	1.33
1	lx	138	LEU	N-CA	-5.14	1.39	1.46
1	lI	127	GLY	CA-C	-5.14	1.46	1.52
1	lK	29	GLU	C-N	5.14	1.41	1.33
1	lO	67	GLN	C-O	5.14	1.30	1.24
1	2x	168	PHE	CA-C	-5.14	1.46	1.52
1	2W	105	ALA	CA-C	5.14	1.59	1.52
1	34	153	ILE	C-N	5.14	1.40	1.33
1	3q	176	GLN	CA-CB	5.14	1.62	1.53
1	3U	165	VAL	CA-CB	5.14	1.60	1.54
1	44	157	PRO	N-CA	-5.14	1.40	1.47
1	4g	226	HIS	CA-CB	5.14	1.61	1.53
1	4s	12	HIS	CA-CB	5.14	1.61	1.53
1	4L	59	VAL	CA-C	5.14	1.58	1.52
1	4Q	30	LYS	N-CA	-5.14	1.39	1.46
1	4S	119	THR	C-N	5.14	1.40	1.33
1	4V	102	SER	CA-CB	5.14	1.61	1.53
1	4Z	9	GLN	N-CA	-5.14	1.39	1.46
1	5i	53	ASN	N-CA	-5.14	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5j	93	PRO	N-CA	-5.14	1.40	1.47
1	5E	50	GLN	CA-CB	5.14	1.61	1.53
1	5P	64	ALA	C-O	-5.14	1.18	1.24
1	5U	193	ASN	CA-CB	5.14	1.62	1.53
1	66	28	GLU	CA-C	-5.14	1.45	1.52
1	66	133	TRP	N-CA	5.14	1.52	1.46
1	6n	80	TRP	CZ2-CH2	5.14	1.47	1.37
1	6M	91	ILE	C-N	5.14	1.40	1.33
1	6X	88	ALA	CA-C	-5.14	1.46	1.53
1	74	210	THR	C-N	5.14	1.41	1.33
1	7w	221	VAL	C-N	5.14	1.41	1.33
1	7K	172	LEU	N-CA	-5.14	1.40	1.46
1	7S	203	LYS	N-CA	-5.14	1.39	1.46
1	82	130	TYR	CB-CG	5.14	1.62	1.51
1	8R	55	MET	CA-CB	5.14	1.61	1.53
1	8S	148	THR	CA-C	-5.14	1.46	1.52
1	90	12	HIS	ND1-CE1	5.14	1.37	1.32
1	96	219	GLN	CA-CB	5.14	1.59	1.53
1	98	91	ILE	C-N	5.14	1.41	1.33
1	9H	190	LEU	CA-C	5.14	1.59	1.52
1	9Q	9	GLN	CA-C	5.14	1.60	1.52
1	9W	164	TYR	CA-CB	5.14	1.61	1.53
1	a3	172	LEU	CA-C	5.14	1.59	1.52
1	ag	185	MET	CA-C	-5.14	1.45	1.52
1	ap	162	ARG	CA-C	5.14	1.59	1.52
1	ap	165	VAL	C-N	5.14	1.40	1.33
1	au	45	GLU	CA-CB	5.14	1.62	1.53
1	aB	88	ALA	C-N	5.14	1.41	1.33
1	aB	96	MET	C-N	5.14	1.39	1.33
1	aG	45	GLU	C-N	5.14	1.39	1.33
1	aI	195	ASN	C-N	5.14	1.40	1.34
1	aM	100	ARG	CA-CB	5.14	1.61	1.53
1	aR	195	ASN	CA-CB	5.14	1.60	1.53
1	bh	207	PRO	CA-C	5.14	1.58	1.52
1	bn	40	PHE	CA-C	5.14	1.59	1.52
1	bB	90	PRO	CA-CB	-5.14	1.46	1.53
1	bD	165	VAL	N-CA	-5.14	1.40	1.46
1	bM	148	THR	CA-C	-5.14	1.45	1.52
1	bS	143	ARG	CZ-NH1	-5.14	1.25	1.32
1	bU	167	ARG	CD-NE	5.14	1.53	1.46
1	bZ	16	SER	N-CA	-5.14	1.38	1.46
1	c7	165	VAL	C-N	5.14	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cc	170	LYS	CA-C	-5.14	1.46	1.52
1	cj	176	GLN	N-CA	-5.14	1.40	1.46
1	ck	38	PRO	CA-CB	5.14	1.61	1.53
1	cv	107	THR	C-N	5.14	1.40	1.33
1	cC	12	HIS	CE1-NE2	5.14	1.37	1.32
1	cH	58	THR	CB-OG1	-5.14	1.35	1.43
1	1g	88	ALA	CA-C	-5.14	1.45	1.52
1	cN	38	PRO	N-CD	-5.14	1.40	1.47
1	cR	80	TRP	CA-CB	5.14	1.61	1.53
1	cT	36	VAL	CA-CB	5.14	1.60	1.54
1	cX	191	VAL	C-N	5.14	1.41	1.33
1	1i	118	MET	N-CA	-5.14	1.39	1.46
1	dc	113	GLU	N-CA	-5.14	1.40	1.46
1	dn	201	ILE	CA-C	5.14	1.59	1.52
1	do	120	HIS	ND1-CE1	5.14	1.37	1.32
1	dz	190	LEU	C-O	-5.14	1.18	1.24
1	dZ	190	LEU	CB-CG	5.14	1.63	1.53
1	e6	97	ARG	C-O	5.14	1.30	1.23
1	er	145	TYR	N-CA	-5.14	1.40	1.46
1	ew	38	PRO	C-N	5.14	1.41	1.33
1	ey	143	ARG	CD-NE	5.14	1.53	1.46
1	eP	63	GLN	CA-C	5.14	1.59	1.52
1	eV	82	ARG	N-CA	5.14	1.52	1.46
1	eW	51	ASP	C-O	-5.14	1.18	1.24
1	fb	137	GLY	N-CA	-5.14	1.38	1.45
1	fl	178	SER	C-N	5.14	1.40	1.33
1	ft	110	THR	C-N	5.14	1.40	1.33
1	1x	165	VAL	N-CA	-5.14	1.40	1.46
1	1y	12	HIS	ND1-CE1	5.14	1.37	1.32
1	1z	193	ASN	N-CA	-5.14	1.38	1.46
1	fR	115	ILE	CB-CG1	5.14	1.63	1.53
1	fY	126	VAL	CA-CB	-5.14	1.48	1.54
1	fY	194	ALA	CA-C	-5.14	1.46	1.52
1	h	90	PRO	CA-CB	5.14	1.61	1.53
1	h	144	MET	CA-C	5.14	1.59	1.52
1	u	157	PRO	CA-CB	5.14	1.61	1.53
1	D	99	PRO	C-N	5.14	1.40	1.33
1	Q	93	PRO	N-CA	5.14	1.53	1.47
1	Q	217	ALA	CA-C	-5.14	1.45	1.52
1	S	79	GLU	CA-C	-5.14	1.46	1.52
1	W	21	ASN	C-N	5.14	1.40	1.34
1	gm	32	PHE	CA-CB	5.14	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	go	11	VAL	CA-CB	-5.14	1.48	1.54
1	gp	117	TRP	CA-C	5.14	1.59	1.52
1	gw	110	THR	N-CA	5.14	1.52	1.45
1	gA	147	PRO	CA-C	5.14	1.58	1.52
1	gS	199	LYS	N-CA	-5.14	1.40	1.46
1	gT	45	GLU	N-CA	-5.14	1.39	1.46
1	gU	3	VAL	N-CA	5.14	1.51	1.46
1	h5	80	TRP	C-O	-5.14	1.18	1.24
1	h6	114	GLN	C-N	5.14	1.40	1.34
1	hf	67	GLN	C-N	5.14	1.40	1.33
1	hD	186	THR	N-CA	5.14	1.52	1.46
1	1L	52	LEU	C-O	-5.14	1.18	1.24
1	hL	183	ASN	C-N	5.14	1.40	1.33
1	1M	158	LYS	CA-CB	5.14	1.61	1.53
1	hU	214	MET	CA-C	5.14	1.59	1.52
1	i5	23	TRP	CG-CD2	-5.14	1.34	1.43
1	iw	104	ILE	C-N	5.14	1.40	1.33
1	iw	185	MET	N-CA	-5.14	1.40	1.46
1	iy	190	LEU	N-CA	-5.14	1.39	1.46
1	iE	152	ASP	C-N	5.14	1.39	1.33
1	iP	114	GLN	CA-CB	5.14	1.61	1.53
1	iY	49	PRO	N-CD	-5.14	1.40	1.47
1	jn	3	VAL	CA-C	5.14	1.58	1.52
1	jr	133	TRP	C-O	-5.14	1.18	1.24
1	jD	148	THR	CA-C	-5.14	1.46	1.52
1	1Y	143	ARG	N-CA	-5.14	1.40	1.46
1	jY	221	VAL	C-N	5.14	1.40	1.34
1	ke	102	SER	C-O	5.14	1.30	1.24
1	kl	218	CYS	CA-CB	5.14	1.61	1.53
1	kt	99	PRO	CA-CB	5.14	1.60	1.53
1	ku	222	GLY	C-N	5.14	1.41	1.33
1	kz	218	CYS	C-O	-5.14	1.17	1.24
1	23	61	GLY	CA-C	5.14	1.58	1.51
1	kE	173	ARG	CZ-NH1	-5.14	1.25	1.32
1	lr	123	PRO	CA-CB	-5.14	1.46	1.53
1	lH	123	PRO	C-N	5.14	1.39	1.33
1	lI	167	ARG	N-CA	5.14	1.52	1.46
1	2r	89	GLY	C-O	-5.14	1.17	1.24
1	2y	158	LYS	CA-C	-5.14	1.46	1.53
1	2V	181	VAL	C-N	5.14	1.40	1.33
1	39	115	ILE	C-N	5.14	1.40	1.33
1	3l	59	VAL	CA-CB	5.14	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3x	184	TRP	NE1-CE2	-5.14	1.31	1.37
1	3z	92	GLU	CA-CB	5.14	1.61	1.53
1	3J	201	ILE	N-CA	-5.14	1.40	1.46
1	3O	77	ALA	C-N	-5.14	1.27	1.33
1	3R	211	LEU	CA-C	-5.14	1.46	1.52
1	4e	41	SER	CA-C	-5.14	1.46	1.52
1	4i	67	GLN	C-N	5.14	1.40	1.33
1	4q	224	PRO	N-CD	-5.14	1.40	1.47
1	4s	113	GLU	C-N	5.14	1.40	1.33
1	4L	109	SER	C-N	5.14	1.40	1.33
1	4N	74	ASN	CA-CB	5.14	1.61	1.53
1	4U	81	ASP	CA-CB	5.14	1.62	1.53
1	59	182	LYS	CA-C	-5.14	1.45	1.52
1	5k	163	ASP	CA-CB	5.14	1.61	1.53
1	5q	123	PRO	C-N	5.14	1.39	1.33
1	5s	128	GLU	C-N	5.14	1.40	1.33
1	5B	142	VAL	CA-CB	-5.14	1.48	1.54
1	5E	165	VAL	CA-C	5.14	1.59	1.52
1	5O	70	LYS	C-N	5.14	1.40	1.34
1	5V	18	ARG	N-CA	5.14	1.52	1.46
1	69	97	ARG	NE-CZ	5.14	1.38	1.33
1	6b	108	THR	CA-CB	-5.14	1.45	1.53
1	6g	157	PRO	CA-C	-5.14	1.44	1.52
1	6r	168	PHE	C-O	-5.14	1.18	1.24
1	6y	203	LYS	CA-CB	5.14	1.61	1.53
1	6N	119	THR	C-N	5.14	1.40	1.33
1	6S	62	HIS	N-CA	5.14	1.53	1.46
1	7p	136	LEU	N-CA	5.14	1.52	1.46
1	7t	201	ILE	CA-C	5.14	1.59	1.52
1	7v	43	LEU	CA-C	5.14	1.59	1.52
1	7N	224	PRO	CA-C	5.14	1.58	1.52
1	82	49	PRO	CA-CB	-5.14	1.46	1.53
1	87	183	ASN	C-N	5.14	1.40	1.33
1	8o	211	LEU	C-N	5.14	1.40	1.33
1	8E	26	VAL	C-N	5.14	1.40	1.34
1	8K	104	ILE	CA-CB	-5.14	1.47	1.54
1	9c	45	GLU	N-CA	5.14	1.52	1.46
1	9q	132	ARG	CD-NE	5.14	1.53	1.46
1	9t	40	PHE	CA-C	-5.14	1.46	1.52
1	9S	166	ASP	CA-CB	5.14	1.61	1.53
1	aq	97	ARG	CA-CB	5.14	1.61	1.53
1	12	144	MET	CA-CB	5.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	12	188	THR	CA-C	-5.14	1.45	1.52
1	az	129	ILE	N-CA	-5.14	1.40	1.46
1	aD	141	ILE	CA-CB	5.14	1.60	1.54
1	aE	8	GLY	CA-C	5.14	1.57	1.52
1	aQ	40	PHE	CA-CB	5.14	1.61	1.53
1	bd	128	GLU	CA-C	-5.14	1.45	1.52
1	bg	190	LEU	C-N	5.14	1.40	1.33
1	17	91	ILE	CA-C	5.14	1.59	1.52
1	bt	34	PRO	C-N	5.14	1.40	1.34
1	bD	3	VAL	CA-C	-5.14	1.45	1.52
1	bF	142	VAL	CA-CB	-5.14	1.47	1.54
1	bL	103	ASP	C-N	5.14	1.40	1.33
1	bT	172	LEU	CB-CG	5.14	1.63	1.53
1	c1	3	VAL	C-N	5.14	1.40	1.33
1	c8	33	SER	CA-CB	5.14	1.60	1.53
1	cj	62	HIS	CE1-NE2	5.14	1.37	1.32
1	ck	114	GLN	C-O	5.14	1.30	1.24
1	cq	184	TRP	CA-CB	5.14	1.61	1.53
1	cw	65	ALA	C-O	-5.14	1.18	1.24
1	cJ	167	ARG	CA-C	5.14	1.59	1.52
1	cW	229	ARG	N-CA	-5.14	1.39	1.46
1	d4	201	ILE	N-CA	-5.14	1.40	1.46
1	dw	13	GLN	CA-C	5.14	1.58	1.52
1	dC	196	PRO	CA-C	5.14	1.59	1.52
1	dF	92	GLU	CA-CB	5.14	1.59	1.53
1	dI	150	ILE	N-CA	-5.14	1.39	1.46
1	dU	104	ILE	CA-CB	5.14	1.60	1.54
1	e1	63	GLN	CA-C	-5.14	1.45	1.52
1	e2	155	GLN	CA-C	-5.14	1.46	1.52
1	ej	123	PRO	C-N	-5.14	1.27	1.33
1	ej	135	ILE	CA-C	-5.14	1.46	1.52
1	em	197	ASP	CA-CB	5.14	1.61	1.53
1	ew	62	HIS	ND1-CE1	5.14	1.37	1.32
1	f7	84	HIS	ND1-CE1	5.14	1.37	1.32
1	f7	201	ILE	CA-CB	-5.14	1.48	1.54
1	fg	175	GLU	CA-CB	5.14	1.62	1.53
1	1w	96	MET	CA-C	5.14	1.60	1.52
1	fk	143	ARG	N-CA	-5.14	1.39	1.46
1	fC	84	HIS	CB-CG	5.14	1.57	1.50
1	g0	149	SER	C-O	5.14	1.29	1.23
1	1B	187	GLU	CA-C	-5.14	1.46	1.52
1	d	79	GLU	CA-C	5.14	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	40	PHE	C-N	5.14	1.40	1.33
1	C	19	THR	C-N	5.14	1.41	1.33
1	C	118	MET	C-N	5.14	1.40	1.33
1	3	153	ILE	N-CA	5.14	1.52	1.46
1	H	80	TRP	C-N	5.14	1.40	1.33
1	W	218	CYS	CA-C	5.14	1.60	1.52
1	i7	16	SER	CA-C	-5.14	1.47	1.53
1	i9	75	GLU	N-CA	5.14	1.52	1.46
1	jx	216	THR	CA-C	-5.14	1.45	1.52
1	jF	185	MET	CA-CB	5.14	1.61	1.53
1	jL	173	ARG	CD-NE	5.14	1.53	1.46
1	k9	6	LEU	CA-CB	5.14	1.62	1.53
1	kd	202	LEU	C-O	-5.14	1.18	1.24
1	ke	82	ARG	CA-CB	5.14	1.61	1.53
1	kB	192	GLN	CA-C	-5.14	1.45	1.52
1	kI	213	GLU	CA-CB	5.14	1.61	1.53
1	li	205	LEU	N-CA	5.14	1.52	1.46
1	2L	120	HIS	C-N	5.14	1.39	1.33
1	2S	193	ASN	CA-C	5.14	1.59	1.52
1	2X	12	HIS	CE1-NE2	5.14	1.37	1.32
1	37	13	GLN	CA-CB	5.14	1.62	1.53
1	3W	146	SER	CA-C	5.14	1.59	1.52
1	4t	101	GLY	CA-C	5.14	1.57	1.52
1	4V	33	SER	CA-C	-5.14	1.46	1.52
1	51	22	ALA	CA-CB	5.14	1.61	1.53
1	51	229	ARG	NE-CZ	-5.14	1.27	1.33
1	5p	133	TRP	N-CA	-5.14	1.40	1.46
1	6q	226	HIS	CB-CG	5.14	1.57	1.50
1	6J	73	ILE	CA-C	-5.14	1.46	1.52
1	7j	111	LEU	CA-C	5.14	1.59	1.52
1	7t	134	ILE	C-N	5.14	1.40	1.33
1	7B	138	LEU	N-CA	5.14	1.52	1.46
1	8z	6	LEU	CA-C	-5.14	1.46	1.52
1	8F	135	ILE	CA-CB	-5.14	1.48	1.54
1	9a	186	THR	CA-C	5.14	1.59	1.52
1	9U	33	SER	N-CA	5.14	1.50	1.45
1	ad	33	SER	C-O	-5.14	1.18	1.24
1	aT	183	ASN	CA-C	5.14	1.59	1.52
1	b5	62	HIS	CB-CG	-5.14	1.43	1.50
1	b5	64	ALA	CA-C	5.14	1.59	1.52
1	bm	127	GLY	CA-C	-5.14	1.44	1.51
1	bs	195	ASN	CA-CB	5.14	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bF	62	HIS	CA-CB	-5.14	1.45	1.53
1	bY	167	ARG	CA-CB	5.14	1.61	1.53
1	du	87	HIS	ND1-CE1	5.14	1.37	1.32
1	dM	41	SER	N-CA	-5.14	1.40	1.46
1	e1	175	GLU	C-O	-5.14	1.17	1.24
1	ec	174	ALA	N-CA	5.14	1.52	1.46
1	fu	173	ARG	CD-NE	5.14	1.53	1.46
1	fJ	42	ALA	CA-CB	5.14	1.61	1.53
1	fO	227	LYS	CA-C	-5.14	1.45	1.52
1	P	75	GLU	C-O	-5.14	1.18	1.24
1	V	57	ASN	CA-C	5.14	1.59	1.52
1	gi	79	GLU	C-O	-5.14	1.18	1.24
1	gs	34	PRO	N-CA	-5.14	1.40	1.47
1	1F	111	LEU	C-O	-5.14	1.18	1.24
1	gU	227	LYS	CA-CB	5.14	1.62	1.53
1	gU	228	ALA	N-CA	5.14	1.52	1.45
1	gW	230	VAL	CA-C	5.14	1.58	1.52
1	gY	203	LYS	C-N	5.14	1.41	1.33
1	h2	84	HIS	N-CA	5.14	1.52	1.46
1	hf	221	VAL	C-O	-5.14	1.18	1.24
1	hl	64	ALA	CA-C	5.14	1.59	1.52
1	hs	50	GLN	CA-C	5.14	1.59	1.52
1	hv	184	TRP	CA-CB	5.14	1.61	1.53
1	hB	6	LEU	CA-CB	5.14	1.62	1.53
1	hC	90	PRO	N-CD	5.14	1.54	1.47
1	1L	72	THR	N-CA	5.14	1.52	1.46
1	hR	53	ASN	CA-CB	5.14	1.61	1.53
1	ic	201	ILE	CA-CB	5.14	1.60	1.54
1	iv	6	LEU	N-CA	-5.14	1.39	1.46
1	iJ	46	GLY	N-CA	5.14	1.52	1.45
1	iL	89	GLY	C-N	-5.14	1.26	1.33
1	j0	214	MET	C-N	-5.14	1.27	1.34
1	1T	211	LEU	CA-C	-5.14	1.46	1.52
1	j4	83	LEU	CA-C	-5.14	1.46	1.52
1	j6	100	ARG	CZ-NH2	-5.14	1.26	1.33
1	j6	125	PRO	N-CA	-5.14	1.41	1.47
1	jd	84	HIS	ND1-CE1	5.14	1.37	1.32
1	jj	168	PHE	CA-C	5.14	1.59	1.52
1	jo	180	GLU	CA-CB	5.14	1.61	1.53
1	ju	140	LYS	CA-CB	5.14	1.61	1.53
1	jD	12	HIS	CD2-NE2	5.14	1.43	1.37
1	jT	152	ASP	C-N	5.14	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k3	113	GLU	C-N	5.14	1.40	1.33
1	21	201	ILE	CA-C	5.14	1.59	1.52
1	kq	20	LEU	CA-C	5.14	1.59	1.52
1	ky	110	THR	CA-C	-5.14	1.46	1.52
1	kz	180	GLU	C-N	5.14	1.40	1.33
1	kC	208	ALA	CA-C	5.14	1.59	1.52
1	kI	198	CYS	CA-CB	5.14	1.61	1.53
1	kK	212	GLU	N-CA	-5.14	1.40	1.46
1	lH	202	LEU	CB-CG	5.14	1.63	1.53
1	lP	143	ARG	CD-NE	5.14	1.53	1.46
1	lQ	37	ILE	N-CA	-5.14	1.40	1.46
1	2c	79	GLU	C-O	-5.14	1.18	1.24
1	2n	142	VAL	N-CA	-5.14	1.40	1.46
1	2o	169	TYR	N-CA	-5.14	1.40	1.46
1	2E	4	GLN	N-CA	-5.14	1.39	1.46
1	2G	85	PRO	C-O	-5.14	1.17	1.24
1	2Y	35	GLU	CA-CB	5.14	1.61	1.53
1	3a	83	LEU	C-O	-5.14	1.18	1.24
1	3j	192	GLN	N-CA	5.14	1.52	1.46
1	3v	132	ARG	NE-CZ	-5.14	1.27	1.33
1	3L	174	ALA	CA-CB	5.14	1.61	1.53
1	3P	132	ARG	CA-C	5.14	1.59	1.52
1	3U	37	ILE	CA-C	-5.14	1.48	1.52
1	4e	1	PRO	N-CA	5.14	1.54	1.47
1	4r	188	THR	N-CA	5.14	1.52	1.46
1	4s	36	VAL	CA-C	-5.14	1.46	1.52
1	4y	82	ARG	N-CA	-5.14	1.39	1.46
1	4O	3	VAL	CA-C	-5.14	1.46	1.52
1	4Q	52	LEU	N-CA	5.14	1.52	1.46
1	4R	75	GLU	N-CA	5.14	1.52	1.46
1	4S	86	VAL	CA-CB	-5.14	1.48	1.54
1	4W	83	LEU	CA-C	-5.14	1.46	1.52
1	5c	18	ARG	CA-C	5.14	1.59	1.52
1	5x	20	LEU	C-O	-5.14	1.18	1.24
1	5x	74	ASN	CA-CB	5.14	1.61	1.53
1	5L	31	ALA	C-N	5.14	1.41	1.33
1	5N	147	PRO	N-CD	-5.14	1.40	1.47
1	5X	95	GLN	C-O	-5.14	1.18	1.24
1	64	111	LEU	CA-CB	5.14	1.61	1.53
1	69	94	GLY	CA-C	-5.14	1.44	1.51
1	6g	16	SER	CA-C	5.14	1.58	1.52
1	6v	29	GLU	N-CA	5.14	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6B	162	ARG	N-CA	5.14	1.52	1.46
1	76	90	PRO	CA-CB	5.14	1.61	1.53
1	7f	130	TYR	CZ-OH	5.14	1.48	1.38
1	7t	40	PHE	N-CA	-5.14	1.40	1.46
1	7B	84	HIS	CG-CD2	-5.14	1.30	1.35
1	7C	99	PRO	C-N	5.14	1.40	1.33
1	7G	2	ILE	N-CA	-5.14	1.40	1.46
1	7M	42	ALA	N-CA	-5.14	1.40	1.46
1	7W	72	THR	N-CA	5.14	1.52	1.46
1	85	182	LYS	CA-CB	5.14	1.61	1.53
1	8i	168	PHE	CA-CB	5.14	1.61	1.53
1	8l	15	ILE	CA-C	5.14	1.59	1.52
1	8G	85	PRO	CA-C	-5.14	1.47	1.53
1	8I	34	PRO	CA-CB	-5.14	1.46	1.53
1	8W	123	PRO	CA-C	-5.14	1.46	1.52
1	9t	174	ALA	N-CA	5.14	1.52	1.46
1	9G	103	ASP	CA-C	5.14	1.59	1.52
1	9H	23	TRP	CA-CB	5.14	1.61	1.53
1	a3	200	THR	C-N	5.14	1.40	1.33
1	a3	213	GLU	CA-CB	5.14	1.62	1.53
1	af	217	ALA	C-N	5.14	1.41	1.33
1	ai	183	ASN	CA-C	5.14	1.59	1.52
1	ay	226	HIS	CA-CB	5.14	1.62	1.53
1	aL	151	LEU	CA-C	-5.14	1.46	1.52
1	b9	108	THR	N-CA	5.14	1.52	1.46
1	bk	112	GLN	N-CA	5.14	1.52	1.46
1	bp	48	THR	CA-CB	-5.14	1.46	1.53
1	bt	34	PRO	CA-CB	5.14	1.61	1.53
1	1a	121	ASN	N-CA	-5.14	1.39	1.46
1	bM	112	GLN	CA-C	5.14	1.59	1.52
1	bP	121	ASN	C-O	-5.14	1.19	1.24
1	bX	181	VAL	CA-CB	5.14	1.60	1.54
1	bX	202	LEU	CA-C	5.14	1.59	1.52
1	bZ	101	GLY	C-O	-5.14	1.17	1.23
1	ci	55	MET	CA-CB	5.14	1.61	1.53
1	cv	217	ALA	CA-C	5.14	1.60	1.53
1	cH	132	ARG	CZ-NH2	-5.14	1.26	1.33
1	cU	215	MET	CA-CB	5.14	1.61	1.53
1	cZ	154	ARG	NE-CZ	-5.14	1.27	1.33
1	dc	25	LYS	N-CA	5.14	1.52	1.46
1	1k	209	ALA	CA-CB	5.14	1.61	1.53
1	dy	208	ALA	CA-CB	5.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1m	25	LYS	CA-CB	5.14	1.61	1.53
1	dJ	62	HIS	CG-CD2	-5.14	1.30	1.35
1	dK	171	THR	CA-C	5.14	1.59	1.52
1	e3	184	TRP	CZ2-CH2	5.14	1.47	1.37
1	e9	17	PRO	C-N	5.14	1.40	1.33
1	ev	182	LYS	CA-CB	-5.14	1.45	1.53
1	eE	85	PRO	C-N	5.14	1.40	1.33
1	eN	147	PRO	N-CA	-5.14	1.40	1.47
1	eO	55	MET	CA-C	-5.14	1.46	1.52
1	eW	87	HIS	ND1-CE1	5.14	1.37	1.32
1	eY	84	HIS	CB-CG	5.14	1.57	1.50
1	f8	140	LYS	C-N	5.14	1.40	1.33
1	1w	114	GLN	N-CA	-5.14	1.40	1.46
1	ft	166	ASP	N-CA	-5.14	1.40	1.46
1	1z	51	ASP	CA-CB	5.14	1.61	1.53
1	fP	100	ARG	CD-NE	5.14	1.53	1.46
1	fS	226	HIS	C-N	5.14	1.40	1.33
1	fU	219	GLN	C-N	5.14	1.39	1.33
1	g4	103	ASP	CA-C	5.14	1.59	1.52
1	o	153	ILE	CA-CB	-5.14	1.49	1.54
1	R	145	TYR	CA-C	5.14	1.60	1.52
1	V	142	VAL	CA-C	5.14	1.59	1.52
1	1C	119	THR	C-N	5.14	1.40	1.33
1	1C	126	VAL	CA-CB	-5.14	1.48	1.54
1	gj	89	GLY	N-CA	5.14	1.51	1.44
1	gj	129	ILE	CA-CB	-5.14	1.48	1.54
1	gs	147	PRO	N-CA	5.14	1.53	1.47
1	gx	25	LYS	CA-C	5.14	1.59	1.52
1	gN	2	ILE	CA-CB	5.14	1.61	1.54
1	gO	55	MET	CA-C	5.14	1.59	1.52
1	gQ	144	MET	C-N	5.14	1.40	1.33
1	gR	114	GLN	CA-CB	5.14	1.61	1.53
1	gZ	107	THR	CA-C	5.14	1.59	1.52
1	hj	146	SER	CA-C	-5.14	1.47	1.52
1	iC	23	TRP	C-O	-5.14	1.18	1.24
1	jf	219	GLN	CA-CB	5.14	1.63	1.53
1	1W	98	GLU	CA-CB	5.14	1.63	1.53
1	jD	202	LEU	CA-C	5.14	1.59	1.52
1	jI	143	ARG	N-CA	5.14	1.52	1.46
1	jP	1	PRO	N-CD	5.14	1.54	1.47
1	kd	229	ARG	C-N	5.14	1.39	1.33
1	kh	19	THR	CA-CB	5.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kt	5	ASN	N-CA	-5.14	1.39	1.45
1	kR	185	MET	CA-C	5.14	1.59	1.52
1	l4	217	ALA	CA-C	-5.14	1.46	1.52
1	l5	171	THR	CA-C	-5.14	1.45	1.52
1	ln	182	LYS	CA-CB	5.14	1.61	1.53
1	lF	123	PRO	CA-C	5.14	1.59	1.52
1	2c	154	ARG	C-N	5.14	1.40	1.33
1	2v	229	ARG	CA-CB	5.14	1.64	1.53
1	3X	29	GLU	CA-CB	5.14	1.61	1.53
1	4b	13	GLN	CA-CB	5.14	1.61	1.53
1	4d	12	HIS	CA-C	-5.14	1.46	1.52
1	6q	130	TYR	CA-CB	5.14	1.61	1.53
1	6r	82	ARG	CD-NE	5.14	1.53	1.46
1	7c	92	GLU	CA-CB	5.14	1.61	1.53
1	7i	155	GLN	CA-C	5.14	1.59	1.52
1	7T	38	PRO	N-CA	5.14	1.54	1.47
1	84	66	MET	N-CA	5.14	1.52	1.46
1	8j	121	ASN	CA-CB	5.14	1.61	1.54
1	8N	98	GLU	CA-C	5.14	1.59	1.53
1	92	23	TRP	N-CA	-5.14	1.39	1.46
1	9g	13	GLN	CA-C	-5.14	1.46	1.52
1	9i	101	GLY	N-CA	5.14	1.52	1.45
1	9m	23	TRP	NE1-CE2	-5.14	1.31	1.37
1	9E	39	MET	CA-CB	-5.14	1.45	1.53
1	ab	129	ILE	CA-CB	-5.14	1.48	1.54
1	av	173	ARG	C-N	5.14	1.41	1.33
1	aS	145	TYR	CA-CB	5.14	1.62	1.53
1	aT	91	ILE	CA-C	5.14	1.59	1.52
1	aU	181	VAL	N-CA	-5.14	1.40	1.46
1	ba	141	ILE	CA-C	-5.14	1.46	1.52
1	bh	170	LYS	C-N	5.14	1.41	1.33
1	bF	153	ILE	CB-CG1	5.14	1.63	1.53
1	bU	166	ASP	CA-C	5.14	1.59	1.52
1	bY	211	LEU	CA-CB	5.14	1.61	1.53
1	c9	6	LEU	N-CA	-5.14	1.39	1.46
1	c9	126	VAL	CA-CB	-5.14	1.48	1.54
1	cf	47	ALA	CA-CB	5.14	1.61	1.53
1	cy	99	PRO	C-N	-5.14	1.25	1.33
1	cG	8	GLY	N-CA	5.14	1.51	1.45
1	cH	150	ILE	N-CA	-5.14	1.40	1.46
1	dl	49	PRO	C-N	5.14	1.40	1.33
1	ed	19	THR	C-N	5.14	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ew	205	LEU	C-N	5.14	1.41	1.33
1	eR	131	LYS	C-N	5.14	1.40	1.34
1	fz	83	LEU	C-N	5.14	1.40	1.33
1	y	53	ASN	CA-CB	5.14	1.61	1.53
1	U	115	ILE	C-N	-5.14	1.27	1.33
1	1C	1	PRO	C-N	5.14	1.40	1.33
1	go	181	VAL	CA-C	-5.14	1.46	1.52
1	gy	24	VAL	C-N	5.14	1.40	1.34
1	gA	189	LEU	CA-CB	5.14	1.61	1.53
1	gF	11	VAL	CA-CB	-5.14	1.48	1.54
1	ha	143	ARG	CD-NE	5.14	1.53	1.46
1	ha	163	ASP	CA-C	5.14	1.59	1.52
1	hg	109	SER	C-O	-5.14	1.17	1.23
1	hi	46	GLY	N-CA	5.14	1.53	1.45
1	hi	205	LEU	CA-CB	5.14	1.61	1.53
1	hi	213	GLU	CA-CB	5.14	1.61	1.53
1	hv	84	HIS	ND1-CE1	5.14	1.37	1.32
1	hy	75	GLU	C-O	5.14	1.30	1.24
1	hR	139	ASN	CA-C	5.14	1.59	1.52
1	1O	166	ASP	C-N	5.14	1.40	1.33
1	ih	55	MET	C-N	5.14	1.41	1.33
1	ip	87	HIS	ND1-CE1	5.14	1.37	1.32
1	iu	117	TRP	N-CA	-5.14	1.40	1.46
1	iK	8	GLY	C-N	5.14	1.39	1.33
1	iM	70	LYS	CA-C	-5.14	1.46	1.52
1	iX	55	MET	N-CA	-5.14	1.40	1.46
1	jd	177	ALA	C-N	5.14	1.40	1.33
1	jj	100	ARG	CZ-NH2	-5.14	1.26	1.33
1	jm	109	SER	CA-C	-5.14	1.46	1.52
1	jC	110	THR	N-CA	5.14	1.52	1.45
1	jI	221	VAL	CA-C	5.14	1.58	1.52
1	jK	56	LEU	CA-CB	5.14	1.61	1.53
1	jO	83	LEU	CA-C	5.14	1.59	1.52
1	jP	132	ARG	C-N	5.14	1.40	1.33
1	jX	201	ILE	CB-CG1	5.14	1.63	1.53
1	jZ	43	LEU	C-N	5.14	1.40	1.33
1	ki	62	HIS	CB-CG	5.14	1.57	1.50
1	ki	167	ARG	C-N	5.14	1.41	1.33
1	kl	98	GLU	CA-C	5.14	1.57	1.52
1	kt	6	LEU	C-N	5.14	1.40	1.33
1	kw	2	ILE	CA-CB	5.14	1.60	1.54
1	kM	81	ASP	N-CA	-5.14	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kT	178	SER	C-O	-5.14	1.17	1.23
1	25	222	GLY	C-N	5.14	1.41	1.33
1	l1	119	THR	N-CA	5.14	1.52	1.46
1	lc	124	ILE	C-O	-5.14	1.18	1.23
1	lp	221	VAL	N-CA	-5.14	1.40	1.46
1	ls	67	GLN	CG-CD	5.14	1.64	1.52
1	29	185	MET	C-N	5.14	1.40	1.33
1	lP	192	GLN	CA-CB	5.14	1.61	1.53
1	lQ	113	GLU	CA-C	5.14	1.59	1.52
1	2E	142	VAL	CA-C	5.14	1.59	1.52
1	3F	161	PHE	N-CA	-5.14	1.39	1.46
1	3I	149	SER	CA-CB	5.14	1.61	1.53
1	3L	229	ARG	CD-NE	5.14	1.53	1.46
1	3R	158	LYS	N-CA	-5.14	1.39	1.46
1	3S	229	ARG	CA-CB	5.14	1.61	1.53
1	3Z	44	SER	CA-C	-5.14	1.45	1.52
1	43	200	THR	CA-C	-5.14	1.46	1.52
1	46	126	VAL	C-N	5.14	1.40	1.34
1	4y	39	MET	C-N	5.14	1.41	1.33
1	4K	126	VAL	CA-C	5.14	1.59	1.52
1	4T	84	HIS	CB-CG	5.14	1.57	1.50
1	4Z	108	THR	CA-CB	5.14	1.60	1.53
1	5k	95	GLN	C-N	5.14	1.40	1.33
1	5M	23	TRP	CA-CB	5.14	1.61	1.53
1	5N	59	VAL	CA-C	5.14	1.59	1.52
1	5U	1	PRO	N-CA	5.14	1.54	1.47
1	6l	54	THR	CB-OG1	-5.14	1.35	1.43
1	6s	55	MET	CA-CB	5.14	1.61	1.53
1	6H	4	GLN	CA-CB	5.14	1.62	1.53
1	6H	19	THR	C-O	5.14	1.30	1.24
1	6I	65	ALA	C-N	5.14	1.40	1.33
1	6Y	46	GLY	CA-C	5.14	1.57	1.51
1	7r	125	PRO	C-N	5.14	1.40	1.33
1	7s	112	GLN	CA-CB	5.14	1.61	1.53
1	7M	191	VAL	CA-CB	5.14	1.60	1.54
1	7O	11	VAL	N-CA	5.14	1.52	1.46
1	7U	134	ILE	C-O	-5.14	1.18	1.24
1	8w	51	ASP	C-N	5.14	1.40	1.33
1	8B	83	LEU	CA-C	5.14	1.59	1.52
1	8N	59	VAL	CA-CB	-5.14	1.48	1.54
1	8O	55	MET	C-N	5.14	1.41	1.33
1	8Q	154	ARG	CA-CB	5.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9i	117	TRP	C-N	5.14	1.41	1.33
1	9u	151	LEU	C-N	5.14	1.41	1.33
1	9x	36	VAL	C-N	5.14	1.39	1.33
1	9X	81	ASP	N-CA	-5.14	1.40	1.46
1	a5	6	LEU	CA-CB	5.14	1.60	1.53
1	a8	47	ALA	C-N	5.14	1.41	1.33
1	ag	115	ILE	CA-C	5.14	1.60	1.52
1	aj	9	GLN	C-N	5.14	1.40	1.33
1	au	97	ARG	C-N	5.14	1.41	1.33
1	ax	187	GLU	CA-CB	5.14	1.61	1.53
1	aI	97	ARG	CD-NE	5.14	1.53	1.46
1	aP	203	LYS	CA-CB	5.14	1.61	1.53
1	aW	182	LYS	CA-CB	5.14	1.61	1.53
1	b4	189	LEU	CA-C	5.14	1.59	1.52
1	bn	133	TRP	C-N	5.14	1.40	1.33
1	bq	71	GLU	N-CA	-5.14	1.40	1.46
1	bt	121	ASN	CG-ND2	5.14	1.44	1.33
1	cn	169	TYR	N-CA	-5.14	1.39	1.46
1	co	227	LYS	CA-C	5.14	1.59	1.52
1	cW	108	THR	CA-C	5.14	1.59	1.52
1	cX	114	GLN	C-N	5.14	1.40	1.33
1	d4	10	MET	CA-CB	5.14	1.62	1.53
1	dv	1	PRO	N-CA	5.14	1.54	1.47
1	dx	92	GLU	CA-CB	5.14	1.60	1.53
1	dL	109	SER	CA-CB	5.14	1.62	1.53
1	dN	220	GLY	CA-C	-5.14	1.44	1.51
1	dX	133	TRP	CA-CB	5.14	1.61	1.53
1	ef	78	ALA	C-N	5.14	1.40	1.33
1	el	22	ALA	CA-C	5.14	1.59	1.52
1	1q	111	LEU	C-O	-5.14	1.18	1.24
1	et	200	THR	N-CA	5.14	1.52	1.46
1	eB	141	ILE	CA-CB	-5.14	1.47	1.54
1	eP	179	GLN	C-N	5.14	1.40	1.33
1	eR	35	GLU	C-N	5.14	1.40	1.34
1	eT	10	MET	N-CA	5.14	1.52	1.46
1	eU	72	THR	CA-C	5.14	1.59	1.52
1	f6	2	ILE	CA-CB	-5.14	1.47	1.53
1	f7	152	ASP	CA-CB	5.14	1.62	1.53
1	fd	146	SER	N-CA	5.14	1.50	1.45
1	ft	162	ARG	N-CA	5.14	1.52	1.46
1	fA	106	GLY	CA-C	-5.14	1.44	1.51
1	fF	131	LYS	CA-CB	5.14	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fO	189	LEU	CA-C	5.14	1.59	1.52
1	fQ	203	LYS	C-O	-5.14	1.17	1.24
1	a	180	GLU	CA-C	5.14	1.59	1.52
1	c	40	PHE	C-N	5.14	1.41	1.33
1	C	228	ALA	C-N	5.14	1.39	1.33
1	H	61	GLY	N-CA	5.14	1.50	1.44
1	7	7	GLN	CA-C	-5.14	1.45	1.52
1	7	183	ASN	CA-CB	5.14	1.61	1.53
1	gb	83	LEU	N-CA	5.13	1.52	1.46
1	gj	81	ASP	CA-CB	5.13	1.61	1.53
1	gr	13	GLN	N-CA	-5.13	1.39	1.46
1	gr	123	PRO	N-CD	-5.13	1.40	1.47
1	1D	88	ALA	C-N	5.13	1.41	1.33
1	gD	43	LEU	CA-C	5.13	1.59	1.52
1	gI	201	ILE	CA-C	-5.13	1.46	1.52
1	gY	87	HIS	CA-CB	5.13	1.61	1.53
1	h0	226	HIS	CE1-NE2	5.13	1.37	1.32
1	hn	140	LYS	C-N	5.13	1.40	1.33
1	hP	59	VAL	N-CA	-5.13	1.40	1.46
1	hQ	229	ARG	CA-CB	5.13	1.61	1.53
1	1M	132	ARG	CZ-NH2	-5.13	1.26	1.33
1	i7	116	GLY	C-N	5.13	1.40	1.33
1	i8	112	GLN	CA-CB	5.13	1.61	1.53
1	if	84	HIS	CD2-NE2	-5.13	1.32	1.37
1	ip	140	LYS	C-O	-5.13	1.18	1.24
1	iE	143	ARG	CA-C	-5.13	1.46	1.52
1	iJ	74	ASN	N-CA	5.13	1.52	1.46
1	iZ	26	VAL	CA-CB	5.13	1.60	1.54
1	j3	43	LEU	N-CA	-5.13	1.40	1.46
1	j6	40	PHE	N-CA	5.13	1.52	1.46
1	je	176	GLN	C-N	5.13	1.40	1.33
1	jn	38	PRO	C-N	5.13	1.40	1.33
1	js	82	ARG	CA-C	-5.13	1.46	1.52
1	jK	77	ALA	CA-C	-5.13	1.46	1.52
1	jL	208	ALA	CA-CB	5.13	1.59	1.52
1	1Y	130	TYR	CA-CB	5.13	1.61	1.53
1	jQ	85	PRO	CA-C	5.13	1.57	1.53
1	k6	89	GLY	CA-C	-5.13	1.44	1.51
1	k6	94	GLY	CA-C	-5.13	1.44	1.51
1	k9	95	GLN	N-CA	5.13	1.52	1.46
1	kb	87	HIS	CG-ND1	5.13	1.43	1.38
1	21	25	LYS	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	23	69	LEU	CA-CB	5.13	1.61	1.53
1	kH	150	ILE	C-O	-5.13	1.17	1.24
1	kO	140	LYS	N-CA	-5.13	1.40	1.46
1	kQ	154	ARG	CA-C	5.13	1.58	1.52
1	kT	9	GLN	C-N	5.13	1.40	1.33
1	la	54	THR	C-N	5.13	1.41	1.33
1	lk	182	LYS	C-N	5.13	1.40	1.33
1	lz	182	LYS	CA-CB	5.13	1.61	1.53
1	2a	160	PRO	CA-C	-5.13	1.45	1.52
1	lP	153	ILE	N-CA	-5.13	1.40	1.46
1	2n	18	ARG	N-CA	-5.13	1.40	1.46
1	2q	132	ARG	CD-NE	5.13	1.53	1.46
1	2B	192	GLN	CA-C	-5.13	1.45	1.52
1	2I	70	LYS	CA-C	5.13	1.59	1.52
1	2V	66	MET	CA-C	5.13	1.59	1.52
1	2Y	221	VAL	CA-C	-5.13	1.46	1.52
1	3C	164	TYR	CZ-OH	5.13	1.48	1.38
1	4c	104	ILE	N-CA	-5.13	1.39	1.46
1	4n	80	TRP	N-CA	5.13	1.52	1.46
1	4u	72	THR	N-CA	-5.13	1.40	1.46
1	4B	182	LYS	C-N	5.13	1.40	1.33
1	4N	18	ARG	N-CA	-5.13	1.40	1.46
1	4N	31	ALA	C-N	5.13	1.41	1.33
1	4R	83	LEU	CA-C	-5.13	1.45	1.52
1	4V	129	ILE	CB-CG1	5.13	1.63	1.53
1	55	199	LYS	N-CA	-5.13	1.40	1.46
1	5g	157	PRO	C-O	-5.13	1.17	1.24
1	5G	181	VAL	N-CA	-5.13	1.40	1.46
1	5Z	68	MET	CA-CB	5.13	1.61	1.53
1	62	45	GLU	C-N	5.13	1.40	1.33
1	63	210	THR	CA-CB	5.13	1.60	1.53
1	65	78	ALA	CA-C	5.13	1.59	1.52
1	6c	10	MET	CG-SD	5.13	1.93	1.80
1	6e	24	VAL	CA-C	5.13	1.60	1.52
1	6f	198	CYS	N-CA	5.13	1.52	1.46
1	6g	17	PRO	CA-C	5.13	1.60	1.52
1	6u	21	ASN	N-CA	5.13	1.52	1.46
1	6v	152	ASP	CA-C	-5.13	1.45	1.52
1	6x	126	VAL	N-CA	5.13	1.52	1.46
1	6D	216	THR	CA-C	5.13	1.59	1.52
1	6I	111	LEU	C-O	-5.13	1.18	1.24
1	6J	105	ALA	CA-C	5.13	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6N	176	GLN	C-N	5.13	1.39	1.33
1	72	217	ALA	N-CA	-5.13	1.39	1.46
1	74	204	ALA	CA-CB	5.13	1.61	1.53
1	75	34	PRO	N-CA	-5.13	1.40	1.47
1	7b	152	ASP	CA-C	5.13	1.59	1.52
1	7g	157	PRO	N-CA	-5.13	1.41	1.47
1	7j	52	LEU	CA-CB	5.13	1.61	1.53
1	7J	19	THR	CA-C	-5.13	1.46	1.52
1	8b	124	ILE	CA-C	5.13	1.58	1.52
1	8e	207	PRO	C-N	-5.13	1.27	1.33
1	8k	184	TRP	C-N	5.13	1.40	1.33
1	8t	100	ARG	NE-CZ	5.13	1.38	1.33
1	8w	149	SER	CA-CB	5.13	1.61	1.53
1	8x	221	VAL	C-N	5.13	1.40	1.33
1	8D	9	GLN	CA-CB	5.13	1.60	1.53
1	8G	90	PRO	CA-C	5.13	1.59	1.52
1	91	227	LYS	CA-C	5.13	1.58	1.52
1	92	149	SER	CA-C	5.13	1.59	1.52
1	9p	63	GLN	C-N	5.13	1.41	1.33
1	9r	189	LEU	CB-CG	5.13	1.63	1.53
1	9t	186	THR	C-N	5.13	1.40	1.33
1	9x	100	ARG	CD-NE	5.13	1.53	1.46
1	9E	1	PRO	N-CD	5.13	1.54	1.47
1	9W	84	HIS	CA-C	-5.13	1.46	1.52
1	a4	3	VAL	C-O	-5.13	1.17	1.24
1	a5	51	ASP	CA-C	5.13	1.59	1.52
1	a5	158	LYS	CA-CB	5.13	1.62	1.53
1	af	99	PRO	CA-CB	5.13	1.59	1.54
1	an	154	ARG	CA-C	5.13	1.59	1.52
1	aB	109	SER	C-O	5.13	1.29	1.23
1	aP	175	GLU	N-CA	-5.13	1.39	1.46
1	aY	142	VAL	C-N	5.13	1.40	1.33
1	b7	139	ASN	CA-C	5.13	1.59	1.52
1	bm	179	GLN	CA-CB	5.13	1.61	1.53
1	bx	8	GLY	C-N	5.13	1.40	1.33
1	bR	9	GLN	CA-CB	5.13	1.60	1.53
1	c2	38	PRO	C-N	5.13	1.40	1.33
1	ci	212	GLU	CA-CB	5.13	1.61	1.53
1	co	207	PRO	N-CA	-5.13	1.41	1.47
1	ct	88	ALA	N-CA	-5.13	1.38	1.46
1	cx	199	LYS	CA-C	5.13	1.59	1.52
1	cS	97	ARG	C-O	5.13	1.29	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cY	120	HIS	CG-ND1	5.13	1.43	1.38
1	1j	129	ILE	CA-C	-5.13	1.46	1.52
1	df	173	ARG	CD-NE	5.13	1.53	1.46
1	di	51	ASP	CA-CB	5.13	1.61	1.53
1	dq	166	ASP	C-N	5.13	1.40	1.33
1	dJ	2	ILE	CA-CB	-5.13	1.48	1.54
1	dV	89	GLY	C-N	5.13	1.40	1.33
1	eh	124	ILE	CA-C	-5.13	1.47	1.52
1	ej	190	LEU	C-N	5.13	1.39	1.34
1	1q	188	THR	CA-C	-5.13	1.45	1.52
1	eo	190	LEU	N-CA	-5.13	1.40	1.46
1	ep	17	PRO	CA-C	5.13	1.60	1.52
1	er	76	GLU	C-N	5.13	1.41	1.33
1	ez	150	ILE	CA-CB	5.13	1.60	1.54
1	ez	200	THR	C-N	5.13	1.40	1.33
1	fk	64	ALA	C-N	5.13	1.41	1.33
1	fP	219	GLN	CA-C	-5.13	1.46	1.52
1	0	2	ILE	CB-CG1	5.13	1.63	1.53
1	f	27	VAL	CA-C	5.13	1.60	1.52
1	j	58	THR	CA-C	-5.13	1.46	1.52
1	k	100	ARG	N-CA	5.13	1.52	1.45
1	s	190	LEU	CA-CB	5.13	1.61	1.53
1	C	48	THR	N-CA	5.13	1.53	1.45
1	O	127	GLY	CA-C	-5.13	1.46	1.52
1	P	103	ASP	CA-C	-5.13	1.46	1.52
1	gb	143	ARG	CZ-NH2	-5.13	1.26	1.33
1	gf	214	MET	CA-CB	5.13	1.61	1.53
1	gI	136	LEU	CA-C	5.13	1.59	1.52
1	ht	50	GLN	CA-C	5.13	1.59	1.52
1	hC	122	PRO	CA-CB	5.13	1.62	1.53
1	hL	44	SER	CA-CB	5.13	1.61	1.53
1	hR	102	SER	CA-C	-5.13	1.45	1.52
1	i5	63	GLN	N-CA	-5.13	1.39	1.46
1	in	101	GLY	CA-C	-5.13	1.46	1.52
1	k6	221	VAL	CA-C	5.13	1.60	1.52
1	lh	79	GLU	CA-C	-5.13	1.46	1.52
1	lq	12	HIS	N-CA	-5.13	1.39	1.46
1	2w	221	VAL	CA-CB	-5.13	1.49	1.54
1	2A	215	MET	N-CA	-5.13	1.40	1.46
1	31	179	GLN	CA-C	5.13	1.59	1.52
1	3i	63	GLN	N-CA	-5.13	1.39	1.46
1	3m	77	ALA	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4b	75	GLU	CA-CB	5.13	1.61	1.53
1	4i	162	ARG	CD-NE	5.13	1.53	1.46
1	4o	4	GLN	N-CA	5.13	1.52	1.46
1	4F	23	TRP	NE1-CE2	-5.13	1.31	1.37
1	4G	168	PHE	CA-C	-5.13	1.46	1.52
1	53	84	HIS	CA-C	-5.13	1.47	1.52
1	57	19	THR	CB-OG1	-5.13	1.35	1.43
1	5v	150	ILE	N-CA	5.13	1.53	1.46
1	5x	176	GLN	CA-CB	5.13	1.61	1.53
1	5A	60	GLY	CA-C	-5.13	1.44	1.51
1	5D	37	ILE	CA-C	-5.13	1.47	1.52
1	67	153	ILE	N-CA	-5.13	1.40	1.46
1	6O	117	TRP	CD2-CE3	5.13	1.48	1.40
1	78	179	GLN	CA-CB	5.13	1.62	1.53
1	79	20	LEU	CA-C	5.13	1.59	1.52
1	7k	57	ASN	CA-CB	-5.13	1.45	1.53
1	99	16	SER	CA-C	5.13	1.58	1.53
1	9F	186	THR	C-O	-5.13	1.16	1.23
1	9G	161	PHE	CA-C	5.13	1.59	1.52
1	9X	165	VAL	C-N	5.13	1.40	1.33
1	a8	115	ILE	C-N	5.13	1.41	1.33
1	ag	37	ILE	CA-C	5.13	1.58	1.52
1	ak	156	GLY	N-CA	5.13	1.51	1.44
1	bn	18	ARG	CA-C	5.13	1.59	1.52
1	bn	50	GLN	C-N	-5.13	1.26	1.33
1	bM	110	THR	CA-C	-5.13	1.46	1.53
1	1b	65	ALA	N-CA	-5.13	1.40	1.46
1	c5	65	ALA	CA-CB	5.13	1.61	1.53
1	cX	129	ILE	N-CA	5.13	1.52	1.46
1	di	142	VAL	CA-CB	5.13	1.60	1.54
1	eK	103	ASP	C-N	5.13	1.40	1.34
1	1t	137	GLY	CA-C	5.13	1.57	1.52
1	f4	34	PRO	CA-C	5.13	1.60	1.52
1	f5	120	HIS	CD2-NE2	-5.13	1.32	1.37
1	ff	180	GLU	N-CA	-5.13	1.40	1.46
1	fk	27	VAL	C-N	5.13	1.40	1.33
1	fR	134	ILE	C-O	5.13	1.31	1.24
1	fS	86	VAL	CA-C	5.13	1.59	1.52
1	fY	16	SER	CA-C	5.13	1.59	1.53
1	q	75	GLU	N-CA	5.13	1.52	1.46
1	O	21	ASN	C-N	-5.13	1.27	1.33
1	g9	112	GLN	N-CA	5.13	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gq	150	ILE	C-O	-5.13	1.19	1.24
1	gw	143	ARG	NE-CZ	-5.13	1.27	1.33
1	gK	201	ILE	CA-CB	-5.13	1.48	1.54
1	gZ	203	LYS	C-N	5.13	1.40	1.33
1	hi	82	ARG	CA-C	-5.13	1.46	1.52
1	hi	185	MET	C-N	5.13	1.41	1.33
1	ht	219	GLN	N-CA	5.13	1.52	1.46
1	hu	42	ALA	N-CA	-5.13	1.40	1.46
1	hy	142	VAL	CA-CB	5.13	1.60	1.54
1	hW	181	VAL	CA-C	-5.13	1.46	1.52
1	1O	221	VAL	CA-C	-5.13	1.46	1.52
1	iy	70	LYS	N-CA	5.13	1.52	1.46
1	iK	20	LEU	CA-CB	5.13	1.61	1.53
1	iT	175	GLU	N-CA	-5.13	1.39	1.46
1	j5	59	VAL	C-O	-5.13	1.18	1.24
1	j5	222	GLY	N-CA	5.13	1.51	1.45
1	j7	178	SER	CA-CB	5.13	1.61	1.53
1	1U	37	ILE	CA-C	5.13	1.56	1.52
1	jc	41	SER	C-N	5.13	1.40	1.34
1	jk	97	ARG	CD-NE	5.13	1.53	1.46
1	jo	189	LEU	C-N	5.13	1.40	1.33
1	jt	16	SER	C-N	5.13	1.40	1.34
1	1W	120	HIS	N-CA	5.13	1.52	1.45
1	jK	144	MET	CA-C	-5.13	1.46	1.52
1	jW	160	PRO	N-CA	5.13	1.53	1.47
1	k7	87	HIS	CG-ND1	-5.13	1.32	1.38
1	kh	124	ILE	CA-CB	5.13	1.58	1.53
1	ky	166	ASP	N-CA	5.13	1.52	1.46
1	kF	62	HIS	CE1-NE2	5.13	1.37	1.32
1	l4	109	SER	N-CA	5.13	1.52	1.46
1	lq	120	HIS	CA-CB	-5.13	1.45	1.53
1	28	69	LEU	CA-CB	5.13	1.61	1.53
1	lD	212	GLU	CA-CB	5.13	1.61	1.53
1	2i	13	GLN	CA-C	5.13	1.58	1.52
1	2u	36	VAL	C-N	-5.13	1.27	1.34
1	33	4	GLN	C-O	-5.13	1.17	1.23
1	3c	15	ILE	N-CA	5.13	1.52	1.46
1	3v	54	THR	C-N	5.13	1.40	1.33
1	3x	191	VAL	CA-C	5.13	1.59	1.52
1	3B	180	GLU	C-N	-5.13	1.27	1.33
1	4a	149	SER	N-CA	5.13	1.52	1.46
1	4l	3	VAL	N-CA	-5.13	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4A	229	ARG	CA-C	-5.13	1.46	1.52
1	4F	41	SER	C-N	5.13	1.41	1.33
1	4L	135	ILE	C-O	-5.13	1.18	1.24
1	4P	84	HIS	CG-ND1	5.13	1.43	1.38
1	5A	71	GLU	CA-CB	5.13	1.61	1.53
1	62	4	GLN	CA-C	-5.13	1.46	1.52
1	65	184	TRP	CA-CB	5.13	1.61	1.53
1	69	36	VAL	CA-C	5.13	1.60	1.52
1	6m	132	ARG	N-CA	5.13	1.52	1.46
1	6r	93	PRO	N-CA	-5.13	1.40	1.47
1	6v	176	GLN	CA-C	-5.13	1.46	1.53
1	6A	226	HIS	CE1-NE2	-5.13	1.27	1.32
1	6G	133	TRP	CA-C	5.13	1.59	1.52
1	6L	208	ALA	CA-CB	-5.13	1.46	1.54
1	76	21	ASN	CA-CB	5.13	1.61	1.53
1	7b	6	LEU	CA-CB	5.13	1.60	1.53
1	7f	172	LEU	C-N	5.13	1.40	1.33
1	7C	200	THR	CA-CB	5.13	1.61	1.53
1	7U	36	VAL	CA-C	5.13	1.59	1.52
1	86	117	TRP	CA-CB	5.13	1.61	1.53
1	8f	38	PRO	CA-C	-5.13	1.44	1.52
1	8r	51	ASP	C-N	5.13	1.40	1.33
1	8s	144	MET	CA-C	-5.13	1.46	1.52
1	8y	87	HIS	C-O	5.13	1.29	1.23
1	8A	113	GLU	N-CA	-5.13	1.40	1.46
1	8J	20	LEU	CA-C	-5.13	1.46	1.52
1	8Y	5	ASN	C-N	5.13	1.40	1.33
1	91	229	ARG	C-O	-5.13	1.17	1.24
1	9k	183	ASN	CA-C	5.13	1.59	1.52
1	9E	30	LYS	CA-CB	5.13	1.62	1.53
1	9G	224	PRO	C-O	-5.13	1.17	1.24
1	9T	33	SER	C-N	5.13	1.41	1.33
1	a2	226	HIS	CG-CD2	5.13	1.41	1.35
1	ar	125	PRO	CA-CB	5.13	1.59	1.53
1	aD	161	PHE	C-N	5.13	1.40	1.33
1	aF	120	HIS	CE1-NE2	5.13	1.37	1.32
1	aK	201	ILE	C-N	5.13	1.41	1.33
1	aR	100	ARG	CD-NE	5.13	1.53	1.46
1	aY	21	ASN	C-O	-5.13	1.18	1.24
1	b2	226	HIS	C-N	5.13	1.39	1.33
1	bl	28	GLU	CA-CB	5.13	1.61	1.53
1	bu	177	ALA	C-N	5.13	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bx	9	GLN	C-N	-5.13	1.26	1.33
1	bJ	154	ARG	CA-C	-5.13	1.46	1.52
1	bK	75	GLU	CA-CB	5.13	1.61	1.53
1	bK	141	ILE	CA-CB	-5.13	1.47	1.54
1	c7	11	VAL	C-N	5.13	1.40	1.33
1	ct	147	PRO	C-N	5.13	1.40	1.33
1	cE	20	LEU	N-CA	-5.13	1.40	1.46
1	cL	226	HIS	CG-CD2	5.13	1.41	1.35
1	d3	214	MET	N-CA	-5.13	1.39	1.46
1	db	95	GLN	N-CA	-5.13	1.39	1.45
1	dh	144	MET	CA-C	5.13	1.59	1.52
1	dw	36	VAL	CA-CB	-5.13	1.48	1.54
1	dT	124	ILE	N-CA	-5.13	1.40	1.46
1	dX	105	ALA	C-O	5.13	1.30	1.24
1	e2	57	ASN	C-N	5.13	1.41	1.33
1	e3	45	GLU	N-CA	-5.13	1.39	1.46
1	e8	21	ASN	CA-CB	5.13	1.61	1.53
1	1q	41	SER	CA-C	5.13	1.59	1.52
1	eq	167	ARG	C-N	5.13	1.40	1.33
1	es	175	GLU	C-N	5.13	1.41	1.33
1	eu	91	ILE	C-O	-5.13	1.18	1.24
1	eL	229	ARG	CD-NE	5.13	1.53	1.46
1	eM	85	PRO	CA-CB	-5.13	1.46	1.53
1	f8	133	TRP	C-N	5.13	1.40	1.34
1	fe	138	LEU	C-N	5.13	1.40	1.33
1	fF	35	GLU	CA-C	5.13	1.59	1.52
1	fI	229	ARG	CA-C	5.13	1.59	1.53
1	fZ	167	ARG	CZ-NH1	-5.13	1.25	1.32
1	g3	138	LEU	CA-C	5.13	1.59	1.52
1	o	65	ALA	N-CA	-5.13	1.40	1.46
1	X	167	ARG	C-N	-5.13	1.27	1.33
1	gj	113	GLU	C-N	5.13	1.40	1.33
1	gm	20	LEU	CA-CB	5.13	1.61	1.53
1	gA	85	PRO	CA-CB	5.13	1.60	1.53
1	h2	230	VAL	CA-C	5.13	1.58	1.52
1	1I	207	PRO	N-CD	5.13	1.54	1.47
1	hh	186	THR	C-O	-5.13	1.18	1.24
1	hj	14	ALA	CA-C	5.13	1.59	1.52
1	i3	217	ALA	N-CA	-5.13	1.39	1.45
1	j9	181	VAL	C-O	-5.13	1.18	1.24
1	jb	73	ILE	CA-C	-5.13	1.46	1.52
1	js	156	GLY	N-CA	5.13	1.51	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jF	125	PRO	N-CA	-5.13	1.40	1.47
1	kl	153	ILE	C-N	5.13	1.40	1.33
1	kq	100	ARG	NE-CZ	5.13	1.38	1.33
1	kx	23	TRP	CZ2-CH2	5.13	1.47	1.37
1	kD	226	HIS	CA-CB	5.13	1.62	1.53
1	kZ	13	GLN	CA-C	5.13	1.58	1.52
1	ls	42	ALA	C-N	5.13	1.41	1.34
1	lC	226	HIS	CD2-NE2	-5.13	1.32	1.37
1	2n	125	PRO	CA-CB	5.13	1.57	1.53
1	2q	155	GLN	CA-C	5.13	1.59	1.52
1	2y	26	VAL	C-N	5.13	1.40	1.33
1	2P	2	ILE	CA-CB	-5.13	1.48	1.54
1	30	139	ASN	N-CA	-5.13	1.40	1.46
1	3p	227	LYS	C-N	5.13	1.41	1.33
1	43	36	VAL	CA-C	5.13	1.59	1.52
1	5w	194	ALA	C-N	5.13	1.40	1.33
1	5I	38	PRO	C-N	5.13	1.40	1.33
1	65	100	ARG	CD-NE	5.13	1.53	1.46
1	7p	51	ASP	CA-CB	5.13	1.61	1.53
1	7u	73	ILE	C-N	5.13	1.40	1.33
1	7G	126	VAL	N-CA	-5.13	1.40	1.46
1	8g	191	VAL	CA-C	5.13	1.59	1.52
1	98	81	ASP	C-N	5.13	1.40	1.33
1	9C	143	ARG	CD-NE	5.13	1.53	1.46
1	aO	162	ARG	CZ-NH2	-5.13	1.26	1.33
1	aR	84	HIS	CE1-NE2	5.13	1.37	1.32
1	ba	140	LYS	CA-CB	5.13	1.61	1.53
1	bl	53	ASN	CA-C	-5.13	1.45	1.52
1	bn	82	ARG	C-N	5.13	1.40	1.33
1	bE	43	LEU	CA-C	5.13	1.59	1.52
1	bP	114	GLN	C-O	5.13	1.30	1.24
1	c2	132	ARG	CA-C	5.13	1.59	1.52
1	c3	11	VAL	C-O	5.13	1.29	1.23
1	cf	43	LEU	CA-CB	5.13	1.61	1.53
1	d0	22	ALA	CA-CB	5.13	1.61	1.53
1	de	230	VAL	CA-C	5.13	1.58	1.52
1	dI	15	ILE	CA-C	5.13	1.58	1.52
1	dR	126	VAL	N-CA	5.13	1.52	1.46
1	dR	212	GLU	C-N	5.13	1.40	1.33
1	1q	183	ASN	CA-CB	5.13	1.61	1.53
1	es	82	ARG	CD-NE	5.13	1.53	1.46
1	eu	219	GLN	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eM	50	GLN	N-CA	-5.13	1.40	1.46
1	eZ	12	HIS	ND1-CE1	5.13	1.37	1.32
1	1v	177	ALA	N-CA	-5.13	1.39	1.45
1	fl	167	ARG	NE-CZ	-5.13	1.27	1.33
1	fR	203	LYS	C-N	5.13	1.40	1.33
1	g1	33	SER	CA-CB	5.13	1.61	1.54
1	n	37	ILE	CA-C	5.13	1.58	1.52
1	gb	87	HIS	CA-C	-5.13	1.45	1.52
1	gj	183	ASN	N-CA	-5.13	1.40	1.46
1	gz	28	GLU	CA-CB	5.13	1.61	1.53
1	gG	126	VAL	C-N	5.13	1.40	1.33
1	hm	184	TRP	CZ2-CH2	5.13	1.47	1.37
1	ho	6	LEU	CA-C	5.13	1.56	1.53
1	hy	70	LYS	CA-CB	5.13	1.61	1.53
1	hB	53	ASN	C-O	-5.13	1.18	1.24
1	hB	104	ILE	CA-C	-5.13	1.46	1.52
1	hI	12	HIS	CA-CB	5.13	1.61	1.53
1	hO	53	ASN	C-N	-5.13	1.27	1.33
1	hT	17	PRO	N-CA	-5.13	1.40	1.47
1	hX	169	TYR	CA-CB	5.13	1.61	1.53
1	ia	4	GLN	N-CA	-5.13	1.39	1.46
1	in	173	ARG	C-N	5.13	1.41	1.33
1	1Q	143	ARG	CZ-NH2	-5.13	1.26	1.33
1	iD	173	ARG	CZ-NH2	-5.13	1.26	1.33
1	1R	177	ALA	N-CA	-5.13	1.39	1.45
1	iN	7	GLN	C-N	5.13	1.40	1.33
1	j3	208	ALA	N-CA	-5.13	1.40	1.46
1	1V	124	ILE	N-CA	-5.13	1.42	1.46
1	jw	224	PRO	CA-CB	5.13	1.61	1.53
1	jz	39	MET	N-CA	5.13	1.52	1.46
1	jD	192	GLN	CA-CB	5.13	1.61	1.53
1	k1	91	ILE	C-N	5.13	1.40	1.33
1	k9	19	THR	C-O	-5.13	1.18	1.24
1	kj	97	ARG	NE-CZ	5.13	1.38	1.33
1	kl	155	GLN	CA-C	5.13	1.59	1.52
1	kM	178	SER	N-CA	5.13	1.52	1.46
1	lo	62	HIS	CE1-NE2	5.13	1.37	1.32
1	lB	68	MET	CA-CB	5.13	1.61	1.53
1	lP	153	ILE	CA-CB	-5.13	1.47	1.53
1	lR	128	GLU	C-N	5.13	1.40	1.33
1	2l	163	ASP	N-CA	-5.13	1.40	1.46
1	2p	42	ALA	N-CA	-5.13	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2q	92	GLU	N-CA	5.13	1.51	1.45
1	2F	195	ASN	C-N	-5.13	1.27	1.34
1	2J	135	ILE	CA-C	-5.13	1.46	1.52
1	3m	25	LYS	CA-C	5.13	1.59	1.52
1	3q	78	ALA	N-CA	-5.13	1.40	1.46
1	3q	201	ILE	CB-CG1	5.13	1.63	1.53
1	47	139	ASN	CA-C	5.13	1.59	1.52
1	4a	120	HIS	CA-C	5.13	1.60	1.53
1	4g	199	LYS	CA-C	-5.13	1.46	1.52
1	4s	170	LYS	CA-C	5.13	1.59	1.52
1	4x	169	TYR	C-N	5.13	1.40	1.33
1	4A	165	VAL	CA-C	5.13	1.59	1.52
1	4E	143	ARG	CA-CB	5.13	1.61	1.53
1	4L	124	ILE	N-CA	-5.13	1.42	1.46
1	4T	32	PHE	N-CA	5.13	1.52	1.46
1	4U	229	ARG	CD-NE	5.13	1.53	1.46
1	53	169	TYR	CA-C	5.13	1.59	1.52
1	55	43	LEU	CA-C	5.13	1.59	1.52
1	58	116	GLY	N-CA	5.13	1.52	1.45
1	5h	136	LEU	C-N	5.13	1.40	1.33
1	5u	38	PRO	C-N	5.13	1.40	1.33
1	5F	86	VAL	CA-C	-5.13	1.46	1.52
1	5T	62	HIS	CG-ND1	5.13	1.43	1.38
1	61	51	ASP	C-N	5.13	1.41	1.33
1	6b	173	ARG	CA-CB	5.13	1.61	1.53
1	6i	114	GLN	CA-CB	5.13	1.61	1.53
1	6k	214	MET	N-CA	5.13	1.52	1.46
1	6x	45	GLU	CA-C	5.13	1.59	1.52
1	6Y	161	PHE	C-O	-5.13	1.17	1.24
1	7d	213	GLU	C-N	5.13	1.40	1.33
1	7h	199	LYS	CA-CB	5.13	1.61	1.53
1	7m	226	HIS	CD2-NE2	5.13	1.43	1.37
1	7q	126	VAL	C-N	5.13	1.40	1.33
1	7A	168	PHE	CA-C	-5.13	1.46	1.52
1	7B	214	MET	CA-C	-5.13	1.46	1.52
1	7G	3	VAL	CA-CB	-5.13	1.47	1.55
1	7H	86	VAL	C-N	5.13	1.40	1.33
1	7P	96	MET	N-CA	5.13	1.52	1.46
1	7Z	157	PRO	C-O	5.13	1.30	1.24
1	81	12	HIS	CA-CB	5.13	1.60	1.53
1	84	27	VAL	CA-C	5.13	1.60	1.52
1	8c	33	SER	CA-C	5.13	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8j	12	HIS	CA-CB	5.13	1.61	1.53
1	8Q	44	SER	C-N	5.13	1.40	1.33
1	8Z	199	LYS	CA-C	5.13	1.59	1.52
1	93	12	HIS	CE1-NE2	-5.13	1.27	1.32
1	9b	201	ILE	CB-CG1	5.13	1.63	1.53
1	9d	226	HIS	ND1-CE1	5.13	1.37	1.32
1	9y	55	MET	CA-C	-5.13	1.46	1.52
1	a7	218	CYS	C-O	-5.13	1.17	1.23
1	ab	167	ARG	CA-CB	5.13	1.61	1.53
1	ag	111	LEU	N-CA	5.13	1.52	1.46
1	at	13	GLN	N-CA	5.13	1.52	1.45
1	aD	189	LEU	C-O	-5.13	1.18	1.24
1	aG	9	GLN	CA-C	5.13	1.60	1.53
1	aQ	186	THR	CA-C	-5.13	1.46	1.52
1	bh	84	HIS	ND1-CE1	5.13	1.37	1.32
1	bE	102	SER	CA-C	5.13	1.59	1.52
1	bS	29	GLU	C-N	5.13	1.41	1.33
1	bT	173	ARG	C-O	5.13	1.30	1.23
1	cp	211	LEU	N-CA	-5.13	1.39	1.46
1	cA	211	LEU	N-CA	5.13	1.52	1.46
1	cG	11	VAL	CA-C	-5.13	1.46	1.52
1	cO	144	MET	CA-CB	5.13	1.61	1.53
1	cR	41	SER	N-CA	5.13	1.52	1.46
1	d4	195	ASN	C-N	5.13	1.40	1.34
1	de	133	TRP	CD2-CE3	-5.13	1.32	1.40
1	dm	18	ARG	CD-NE	5.13	1.53	1.46
1	do	171	THR	CA-C	-5.13	1.46	1.52
1	ds	79	GLU	CA-CB	5.13	1.61	1.53
1	dY	123	PRO	CA-C	5.13	1.59	1.52
1	1o	72	THR	C-N	5.13	1.40	1.33
1	eo	138	LEU	CA-CB	5.13	1.61	1.53
1	er	68	MET	CA-C	5.13	1.59	1.52
1	er	103	ASP	CA-C	-5.13	1.46	1.52
1	1r	139	ASN	CA-C	5.13	1.59	1.52
1	ey	148	THR	C-N	5.13	1.40	1.33
1	ey	218	CYS	N-CA	5.13	1.52	1.46
1	eD	154	ARG	CZ-NH2	-5.13	1.26	1.33
1	eU	41	SER	CA-CB	5.13	1.61	1.53
1	eU	124	ILE	CA-C	5.13	1.57	1.53
1	eY	62	HIS	CE1-NE2	5.13	1.37	1.32
1	eZ	77	ALA	N-CA	-5.13	1.40	1.46
1	1u	189	LEU	N-CA	-5.13	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	f0	212	GLU	CA-C	5.13	1.59	1.52
1	fh	191	VAL	N-CA	-5.13	1.39	1.46
1	fk	214	MET	CA-CB	5.13	1.61	1.53
1	1x	90	PRO	CA-CB	5.13	1.60	1.53
1	fy	150	ILE	C-N	-5.13	1.26	1.34
1	fA	134	ILE	CA-CB	-5.13	1.48	1.54
1	fU	78	ALA	CA-C	-5.13	1.46	1.52
1	g5	97	ARG	CD-NE	5.13	1.53	1.46
1	g7	35	GLU	N-CA	5.13	1.52	1.46
1	c	17	PRO	C-N	5.13	1.40	1.33
1	f	154	ARG	N-CA	-5.13	1.39	1.45
1	l	190	LEU	C-O	-5.13	1.17	1.24
1	v	174	ALA	CA-CB	5.13	1.61	1.53
1	F	27	VAL	N-CA	5.13	1.52	1.46
1	R	205	LEU	CA-CB	5.13	1.61	1.53
1	6	7	GLN	CA-CB	5.13	1.60	1.53
1	gc	227	LYS	CA-C	5.13	1.58	1.52
1	gn	62	HIS	CA-C	5.13	1.60	1.53
1	gw	202	LEU	C-O	-5.13	1.18	1.24
1	gE	103	ASP	C-N	5.13	1.40	1.33
1	gF	29	GLU	CA-C	-5.13	1.46	1.53
1	h4	143	ARG	CA-CB	5.13	1.61	1.53
1	hg	229	ARG	N-CA	5.13	1.52	1.46
1	ho	193	ASN	CG-ND2	5.13	1.44	1.33
1	hG	18	ARG	CA-CB	5.13	1.61	1.53
1	i7	30	LYS	CA-C	-5.13	1.45	1.52
1	iE	185	MET	CA-CB	5.13	1.61	1.53
1	1R	130	TYR	C-N	5.13	1.40	1.33
1	iQ	87	HIS	ND1-CE1	5.13	1.37	1.32
1	iS	127	GLY	CA-C	5.13	1.58	1.52
1	j2	62	HIS	CA-CB	5.13	1.62	1.53
1	ja	139	ASN	C-N	5.13	1.40	1.33
1	jB	138	LEU	C-N	5.13	1.41	1.33
1	jH	66	MET	CA-CB	5.13	1.61	1.53
1	jL	131	LYS	C-N	5.13	1.40	1.33
1	1Y	102	SER	CA-C	5.13	1.59	1.52
1	jS	199	LYS	C-N	5.13	1.40	1.33
1	1Z	145	TYR	CB-CG	-5.13	1.40	1.51
1	kt	226	HIS	CG-CD2	5.13	1.41	1.35
1	kw	111	LEU	CA-C	5.13	1.59	1.52
1	ky	188	THR	CA-CB	5.13	1.62	1.53
1	kD	202	LEU	C-N	5.13	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kY	33	SER	N-CA	-5.13	1.41	1.45
1	l3	87	HIS	CG-ND1	5.13	1.43	1.38
1	l6	100	ARG	CA-CB	5.13	1.61	1.53
1	lA	199	LYS	CA-C	5.13	1.59	1.52
1	lK	194	ALA	CA-CB	5.13	1.61	1.53
1	lL	85	PRO	C-N	-5.13	1.27	1.33
1	lP	186	THR	CA-CB	-5.13	1.45	1.53
1	2g	117	TRP	N-CA	5.13	1.52	1.46
1	2q	69	LEU	N-CA	5.13	1.52	1.46
1	2z	119	THR	N-CA	5.13	1.53	1.46
1	2P	158	LYS	CA-CB	5.13	1.61	1.53
1	2Y	121	ASN	CA-C	5.13	1.58	1.52
1	3e	213	GLU	N-CA	-5.13	1.40	1.46
1	3g	100	ARG	N-CA	-5.13	1.39	1.45
1	3i	8	GLY	N-CA	5.13	1.52	1.45
1	3j	88	ALA	CA-CB	5.13	1.60	1.53
1	3n	125	PRO	CA-CB	5.13	1.58	1.53
1	3z	58	THR	C-O	-5.13	1.18	1.24
1	3F	165	VAL	C-N	5.13	1.40	1.33
1	3G	35	GLU	N-CA	-5.13	1.39	1.46
1	3J	77	ALA	CA-CB	5.13	1.61	1.53
1	3S	55	MET	N-CA	-5.13	1.40	1.46
1	3V	99	PRO	CA-C	5.13	1.59	1.52
1	47	162	ARG	NE-CZ	-5.13	1.27	1.33
1	4m	79	GLU	C-N	5.13	1.40	1.33
1	4q	145	TYR	CA-CB	5.13	1.61	1.53
1	4w	87	HIS	CE1-NE2	5.13	1.37	1.32
1	4y	167	ARG	CZ-NH2	-5.13	1.26	1.33
1	4C	21	ASN	CA-CB	5.13	1.61	1.53
1	4C	102	SER	N-CA	-5.13	1.40	1.46
1	4G	46	GLY	C-N	5.13	1.40	1.33
1	4P	134	ILE	C-N	5.13	1.40	1.33
1	53	191	VAL	CA-CB	-5.13	1.47	1.54
1	5b	87	HIS	CA-CB	5.13	1.61	1.53
1	5n	141	ILE	C-N	5.13	1.40	1.34
1	5p	27	VAL	N-CA	5.13	1.52	1.46
1	5t	4	GLN	CA-C	-5.13	1.46	1.52
1	5M	114	GLN	CA-C	-5.13	1.46	1.52
1	5T	73	ILE	C-O	5.13	1.30	1.24
1	5Y	104	ILE	CA-C	5.13	1.59	1.52
1	6L	230	VAL	C-N	5.13	1.40	1.33
1	7P	194	ALA	N-CA	-5.13	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8b	134	ILE	CA-CB	5.13	1.61	1.54
1	8h	3	VAL	CA-C	5.13	1.58	1.52
1	8h	51	ASP	C-N	5.13	1.40	1.33
1	8k	218	CYS	C-N	5.13	1.40	1.33
1	8H	50	GLN	C-N	5.13	1.40	1.33
1	8I	82	ARG	CZ-NH2	-5.13	1.26	1.33
1	93	134	ILE	CA-CB	-5.13	1.47	1.54
1	99	215	MET	CA-C	5.13	1.59	1.52
1	9g	230	VAL	CA-C	5.13	1.60	1.52
1	9j	202	LEU	N-CA	-5.13	1.40	1.46
1	9w	40	PHE	N-CA	5.13	1.52	1.46
1	9C	215	MET	CA-C	5.13	1.59	1.52
1	a7	143	ARG	CD-NE	5.13	1.53	1.46
1	ar	133	TRP	CA-C	5.13	1.59	1.52
1	at	82	ARG	CD-NE	5.13	1.53	1.46
1	aJ	54	THR	CA-C	5.13	1.59	1.52
1	14	64	ALA	N-CA	5.13	1.52	1.46
1	aP	106	GLY	CA-C	-5.13	1.44	1.51
1	ba	32	PHE	CA-CB	5.13	1.60	1.53
1	bu	105	ALA	C-O	5.13	1.30	1.24
1	bv	91	ILE	CA-C	5.13	1.59	1.52
1	bw	93	PRO	N-CA	-5.13	1.40	1.47
1	bL	95	GLN	CA-C	5.13	1.58	1.52
1	c1	163	ASP	CA-C	5.13	1.59	1.52
1	1c	126	VAL	CA-CB	-5.13	1.48	1.54
1	c9	5	ASN	CA-C	5.13	1.59	1.52
1	cf	135	ILE	CA-CB	-5.13	1.48	1.54
1	1d	215	MET	C-O	5.13	1.30	1.24
1	cN	45	GLU	N-CA	5.13	1.52	1.46
1	d0	173	ARG	C-N	5.13	1.40	1.33
1	1i	37	ILE	CA-CB	-5.13	1.47	1.54
1	d6	26	VAL	CA-C	-5.13	1.46	1.52
1	dn	67	GLN	CA-CB	5.13	1.61	1.53
1	dx	70	LYS	C-O	5.13	1.30	1.24
1	1l	170	LYS	CA-C	5.13	1.59	1.52
1	dz	31	ALA	C-N	5.13	1.40	1.33
1	dI	155	GLN	CA-C	5.13	1.59	1.52
1	dL	149	SER	CA-CB	5.13	1.62	1.53
1	dU	169	TYR	CG-CD1	5.13	1.50	1.39
1	e4	84	HIS	CD2-NE2	5.13	1.43	1.37
1	el	117	TRP	CZ2-CH2	5.13	1.47	1.37
1	ex	93	PRO	CA-CB	-5.13	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ey	126	VAL	N-CA	5.13	1.52	1.46
1	ez	198	CYS	C-N	5.13	1.40	1.33
1	eM	224	PRO	C-N	5.13	1.41	1.33
1	eP	112	GLN	C-N	5.13	1.40	1.33
1	eV	201	ILE	C-N	5.13	1.40	1.33
1	f3	118	MET	C-O	-5.13	1.18	1.24
1	ff	85	PRO	C-N	5.13	1.40	1.33
1	1w	83	LEU	N-CA	-5.13	1.39	1.46
1	fu	174	ALA	C-N	5.13	1.40	1.33
1	fD	52	LEU	CA-CB	5.13	1.61	1.53
1	fL	161	PHE	CA-CB	5.13	1.62	1.53
1	fO	150	ILE	N-CA	-5.13	1.40	1.46
1	1B	36	VAL	C-N	5.13	1.41	1.33
1	p	128	GLU	C-N	5.13	1.40	1.33
1	z	129	ILE	CB-CG1	5.13	1.63	1.53
1	P	230	VAL	CA-CB	-5.13	1.47	1.54
1	V	119	THR	N-CA	5.13	1.52	1.46
1	8	197	ASP	CA-C	5.13	1.59	1.52
1	hk	22	ALA	CA-CB	5.12	1.61	1.53
1	hp	105	ALA	CA-CB	5.12	1.62	1.53
1	hH	147	PRO	N-CA	-5.12	1.40	1.47
1	hL	231	LEU	N-CA	-5.12	1.36	1.46
1	ii	11	VAL	N-CA	5.12	1.52	1.46
1	iK	17	PRO	CA-C	5.12	1.59	1.52
1	js	102	SER	CA-CB	5.12	1.61	1.53
1	1X	67	GLN	C-O	-5.12	1.18	1.24
1	jO	144	MET	C-N	5.12	1.40	1.33
1	jP	6	LEU	N-CA	-5.12	1.39	1.45
1	1Y	218	CYS	CA-CB	5.12	1.62	1.53
1	jX	160	PRO	CA-CB	5.12	1.60	1.53
1	kt	50	GLN	C-N	-5.12	1.27	1.33
1	l1	97	ARG	C-O	-5.12	1.17	1.23
1	l4	181	VAL	C-N	5.12	1.40	1.33
1	l5	227	LYS	CA-C	-5.12	1.46	1.52
1	lj	176	GLN	CA-C	5.12	1.60	1.52
1	lt	13	GLN	C-O	-5.12	1.17	1.23
1	2K	120	HIS	CA-C	5.12	1.59	1.52
1	3U	121	ASN	CA-CB	5.12	1.61	1.53
1	40	154	ARG	CZ-NH1	-5.12	1.25	1.32
1	42	187	GLU	CA-C	-5.12	1.46	1.52
1	45	63	GLN	CA-C	-5.12	1.45	1.52
1	4f	18	ARG	CD-NE	5.12	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	50	23	TRP	NE1-CE2	-5.12	1.31	1.37
1	52	126	VAL	C-N	5.12	1.40	1.33
1	5b	12	HIS	CA-C	-5.12	1.46	1.52
1	5e	47	ALA	CA-C	5.12	1.59	1.52
1	5o	153	ILE	CA-CB	-5.12	1.47	1.54
1	6p	21	ASN	CA-C	5.12	1.59	1.52
1	77	71	GLU	N-CA	5.12	1.52	1.46
1	7g	202	LEU	C-N	5.12	1.40	1.33
1	7q	203	LYS	N-CA	-5.12	1.40	1.46
1	7y	162	ARG	CD-NE	5.12	1.53	1.46
1	7J	50	GLN	CA-C	5.12	1.59	1.52
1	7U	75	GLU	CA-C	5.12	1.59	1.52
1	82	148	THR	CA-C	-5.12	1.46	1.52
1	8u	229	ARG	CD-NE	5.12	1.53	1.46
1	9D	120	HIS	CA-C	5.12	1.59	1.52
1	9Z	228	ALA	CA-C	-5.12	1.46	1.52
1	af	56	LEU	CA-CB	5.12	1.61	1.53
1	aw	192	GLN	CA-CB	5.12	1.61	1.53
1	aK	111	LEU	C-N	5.12	1.40	1.33
1	14	28	GLU	CA-C	5.12	1.59	1.52
1	b6	141	ILE	CA-C	5.12	1.59	1.52
1	b7	12	HIS	N-CA	5.12	1.52	1.46
1	b9	95	GLN	CA-CB	5.12	1.61	1.54
1	bh	97	ARG	CA-C	-5.12	1.46	1.52
1	bQ	149	SER	CA-CB	5.12	1.61	1.53
1	ce	97	ARG	CA-CB	5.12	1.61	1.53
1	dg	75	GLU	N-CA	5.12	1.52	1.46
1	dq	165	VAL	CA-C	-5.12	1.46	1.53
1	dR	95	GLN	CA-CB	5.12	1.61	1.53
1	dV	87	HIS	CB-CG	5.12	1.57	1.50
1	ee	103	ASP	C-N	-5.12	1.27	1.33
1	ej	160	PRO	N-CA	5.12	1.53	1.47
1	eK	27	VAL	N-CA	-5.12	1.40	1.46
1	f0	154	ARG	C-N	5.12	1.40	1.33
1	fp	9	GLN	CA-CB	5.12	1.60	1.53
1	fq	150	ILE	N-CA	5.12	1.52	1.46
1	fD	76	GLU	C-N	5.12	1.40	1.33
1	g1	85	PRO	CA-C	5.12	1.59	1.52
1	0	202	LEU	CA-CB	5.12	1.61	1.53
1	S	164	TYR	CA-CB	5.12	1.61	1.53
1	V	1	PRO	N-CD	5.12	1.54	1.47
1	gG	140	LYS	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gP	150	ILE	CA-C	5.12	1.59	1.52
1	gQ	198	CYS	CA-CB	5.12	1.61	1.53
1	gR	152	ASP	CA-C	5.12	1.59	1.52
1	gT	88	ALA	N-CA	-5.12	1.40	1.46
1	h1	73	ILE	CA-C	5.12	1.59	1.52
1	h2	192	GLN	CA-C	5.12	1.59	1.52
1	h3	29	GLU	CA-C	5.12	1.59	1.52
1	hg	82	ARG	CA-CB	5.12	1.61	1.53
1	hl	204	ALA	N-CA	-5.12	1.39	1.46
1	hu	117	TRP	CG-CD2	5.12	1.52	1.43
1	hD	74	ASN	CA-C	-5.12	1.46	1.52
1	hO	73	ILE	CA-CB	5.12	1.60	1.54
1	hQ	158	LYS	CA-CB	5.12	1.61	1.53
1	il	148	THR	C-N	5.12	1.40	1.33
1	1Q	229	ARG	CD-NE	5.12	1.53	1.46
1	iI	75	GLU	CA-CB	5.12	1.61	1.53
1	iM	183	ASN	CA-CB	5.12	1.61	1.53
1	iT	213	GLU	N-CA	5.12	1.52	1.46
1	jc	201	ILE	CA-CB	-5.12	1.47	1.54
1	jl	124	ILE	N-CA	-5.12	1.41	1.46
1	jo	227	LYS	CA-CB	5.12	1.61	1.53
1	jB	8	GLY	CA-C	5.12	1.59	1.51
1	1X	226	HIS	CB-CG	5.12	1.57	1.50
1	jR	115	ILE	CA-CB	-5.12	1.48	1.54
1	kg	146	SER	CA-CB	5.12	1.60	1.53
1	23	136	LEU	C-N	5.12	1.40	1.33
1	kR	56	LEU	C-N	5.12	1.41	1.33
1	kZ	168	PHE	CB-CG	5.12	1.62	1.50
1	lL	60	GLY	N-CA	-5.12	1.38	1.45
1	lL	150	ILE	CA-C	-5.12	1.46	1.52
1	2i	68	MET	C-N	5.12	1.40	1.33
1	2l	63	GLN	C-N	5.12	1.40	1.33
1	2B	2	ILE	CA-C	5.12	1.58	1.52
1	2L	183	ASN	CA-CB	5.12	1.61	1.53
1	2P	141	ILE	C-O	-5.12	1.18	1.24
1	3g	196	PRO	N-CA	-5.12	1.40	1.47
1	3h	58	THR	CA-C	-5.12	1.46	1.52
1	3i	97	ARG	CD-NE	5.12	1.53	1.46
1	3j	158	LYS	N-CA	-5.12	1.39	1.46
1	3l	209	ALA	N-CA	-5.12	1.39	1.46
1	3q	124	ILE	CA-C	5.12	1.58	1.52
1	3y	190	LEU	C-N	5.12	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3I	138	LEU	CA-CB	5.12	1.61	1.53
1	3J	92	GLU	CA-C	5.12	1.57	1.52
1	3Y	133	TRP	C-N	5.12	1.40	1.33
1	4c	75	GLU	C-N	5.12	1.40	1.33
1	4c	227	LYS	CA-C	5.12	1.59	1.52
1	4g	195	ASN	CA-C	5.12	1.59	1.53
1	4q	16	SER	CA-C	5.12	1.58	1.53
1	4r	169	TYR	CA-CB	5.12	1.61	1.53
1	4w	80	TRP	C-N	5.12	1.41	1.33
1	4A	45	GLU	CA-C	5.12	1.59	1.52
1	4C	12	HIS	ND1-CE1	5.12	1.37	1.32
1	4Q	111	LEU	N-CA	-5.12	1.40	1.46
1	5i	228	ALA	C-O	-5.12	1.17	1.23
1	5l	123	PRO	CA-CB	5.12	1.61	1.53
1	5w	96	MET	CA-C	5.12	1.59	1.52
1	5F	46	GLY	C-N	5.12	1.40	1.33
1	5W	41	SER	C-N	5.12	1.40	1.33
1	66	85	PRO	N-CD	5.12	1.54	1.47
1	6e	56	LEU	CA-C	5.12	1.59	1.52
1	6f	133	TRP	CA-C	5.12	1.59	1.52
1	6j	12	HIS	CB-CG	5.12	1.57	1.50
1	6m	200	THR	C-N	5.12	1.40	1.33
1	6r	190	LEU	C-N	5.12	1.40	1.33
1	70	120	HIS	CB-CG	5.12	1.57	1.50
1	7v	113	GLU	CA-CB	5.12	1.61	1.53
1	7x	57	ASN	CA-CB	5.12	1.61	1.53
1	7y	173	ARG	CD-NE	5.12	1.53	1.46
1	7H	191	VAL	CA-C	-5.12	1.46	1.52
1	7W	190	LEU	CA-C	-5.12	1.46	1.52
1	8b	143	ARG	C-N	5.12	1.40	1.33
1	8p	12	HIS	CA-CB	-5.12	1.45	1.53
1	8x	192	GLN	N-CA	5.12	1.52	1.46
1	8y	181	VAL	CA-CB	-5.12	1.47	1.54
1	8E	136	LEU	N-CA	-5.12	1.40	1.46
1	8J	133	TRP	C-N	5.12	1.40	1.33
1	8O	32	PHE	N-CA	5.12	1.52	1.46
1	8O	59	VAL	C-N	5.12	1.41	1.33
1	8R	1	PRO	N-CD	5.12	1.54	1.47
1	8T	223	GLY	CA-C	5.12	1.59	1.51
1	92	12	HIS	CE1-NE2	-5.12	1.27	1.32
1	9e	10	MET	C-N	5.12	1.40	1.33
1	9g	13	GLN	C-O	-5.12	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9i	164	TYR	CA-C	5.12	1.59	1.52
1	9H	145	TYR	CA-C	5.12	1.59	1.52
1	9O	80	TRP	CA-C	-5.12	1.45	1.52
1	ab	59	VAL	CA-CB	-5.12	1.47	1.53
1	aE	132	ARG	CD-NE	5.12	1.53	1.46
1	aF	60	GLY	C-N	5.12	1.41	1.33
1	aG	12	HIS	ND1-CE1	5.12	1.37	1.32
1	aO	84	HIS	CG-ND1	5.12	1.43	1.38
1	b9	129	ILE	C-N	5.12	1.40	1.33
1	ba	122	PRO	C-N	5.12	1.40	1.33
1	bg	196	PRO	N-CA	-5.12	1.40	1.47
1	bu	16	SER	CA-CB	5.12	1.62	1.53
1	bx	134	ILE	C-O	-5.12	1.18	1.24
1	bz	30	LYS	C-N	-5.12	1.27	1.34
1	bz	71	GLU	CA-CB	5.12	1.61	1.53
1	bU	44	SER	CA-CB	5.12	1.61	1.53
1	cp	100	ARG	CZ-NH2	-5.12	1.26	1.33
1	cr	28	GLU	CA-CB	5.12	1.61	1.53
1	1g	16	SER	CA-C	5.12	1.58	1.52
1	cQ	7	GLN	C-N	5.12	1.41	1.33
1	1h	3	VAL	CA-C	5.12	1.58	1.52
1	d0	66	MET	C-N	5.12	1.40	1.33
1	d9	76	GLU	CA-CB	5.12	1.61	1.53
1	d9	222	GLY	N-CA	5.12	1.50	1.45
1	de	119	THR	N-CA	5.12	1.52	1.46
1	di	201	ILE	C-O	5.12	1.29	1.24
1	1k	85	PRO	C-N	5.12	1.39	1.33
1	1l	56	LEU	CA-C	-5.12	1.46	1.52
1	dy	209	ALA	CA-C	5.12	1.59	1.52
1	dC	203	LYS	CA-CB	5.12	1.61	1.53
1	dM	115	ILE	CA-CB	5.12	1.61	1.54
1	dN	86	VAL	CA-C	-5.12	1.46	1.52
1	dO	177	ALA	CA-C	-5.12	1.46	1.52
1	dP	206	GLY	C-N	-5.12	1.28	1.34
1	dS	168	PHE	C-O	-5.12	1.18	1.24
1	e8	163	ASP	CA-C	5.12	1.59	1.52
1	ei	39	MET	C-N	5.12	1.40	1.33
1	er	84	HIS	CA-CB	5.12	1.61	1.53
1	eu	117	TRP	NE1-CE2	-5.12	1.31	1.37
1	eH	163	ASP	CA-CB	5.12	1.61	1.53
1	eY	132	ARG	CD-NE	5.12	1.53	1.46
1	f6	129	ILE	CB-CG2	5.12	1.69	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fk	16	SER	C-N	5.12	1.40	1.34
1	fL	79	GLU	N-CA	-5.12	1.40	1.46
1	g3	125	PRO	CA-CB	5.12	1.59	1.53
1	g5	100	ARG	C-N	5.12	1.41	1.33
1	0	171	THR	C-O	-5.12	1.18	1.24
1	l	132	ARG	CD-NE	5.12	1.53	1.46
1	2	94	GLY	N-CA	5.12	1.53	1.44
1	z	120	HIS	CA-C	5.12	1.59	1.52
1	C	103	ASP	CA-C	5.12	1.59	1.52
1	4	145	TYR	CA-C	5.12	1.59	1.52
1	V	229	ARG	CD-NE	5.12	1.53	1.46
1	7	155	GLN	C-N	5.12	1.41	1.33
1	ge	152	ASP	CA-C	5.12	1.59	1.52
1	1D	214	MET	CA-C	5.12	1.59	1.52
1	gx	190	LEU	N-CA	5.12	1.52	1.46
1	gz	125	PRO	CA-C	5.12	1.57	1.53
1	gX	162	ARG	CD-NE	5.12	1.53	1.46
1	1H	163	ASP	C-N	5.12	1.40	1.33
1	he	205	LEU	CA-CB	5.12	1.62	1.53
1	hs	135	ILE	CB-CG1	5.12	1.63	1.53
1	hR	23	TRP	N-CA	-5.12	1.40	1.46
1	hR	40	PHE	N-CA	-5.12	1.39	1.46
1	1M	186	THR	CA-CB	5.12	1.61	1.53
1	hZ	20	LEU	CA-C	5.12	1.59	1.52
1	1O	130	TYR	CA-C	5.12	1.59	1.52
1	iu	200	THR	CA-C	-5.12	1.46	1.52
1	iA	163	ASP	C-O	-5.12	1.18	1.24
1	1R	59	VAL	CA-CB	-5.12	1.48	1.54
1	iZ	213	GLU	CA-C	-5.12	1.46	1.52
1	j2	133	TRP	CA-C	5.12	1.59	1.52
1	jh	151	LEU	CA-C	5.12	1.59	1.52
1	jQ	114	GLN	C-N	-5.12	1.27	1.34
1	jW	90	PRO	CA-CB	5.12	1.61	1.53
1	jW	201	ILE	CB-CG1	5.12	1.63	1.53
1	20	180	GLU	CA-CB	5.12	1.62	1.53
1	kb	37	ILE	CA-C	5.12	1.58	1.52
1	kn	74	ASN	CA-CB	5.12	1.61	1.53
1	ku	128	GLU	CA-C	-5.12	1.46	1.52
1	kE	112	GLN	CA-C	-5.12	1.46	1.52
1	kN	98	GLU	C-N	-5.12	1.29	1.33
1	kT	168	PHE	CA-CB	5.12	1.61	1.53
1	l9	115	ILE	CB-CG1	5.12	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	27	187	GLU	C-N	5.12	1.40	1.33
1	28	11	VAL	CA-C	5.12	1.58	1.52
1	lC	56	LEU	CA-C	5.12	1.59	1.52
1	2e	113	GLU	CA-C	5.12	1.59	1.52
1	2G	94	GLY	C-N	5.12	1.40	1.33
1	2K	164	TYR	CZ-OH	5.12	1.48	1.38
1	2S	2	ILE	C-N	5.12	1.39	1.33
1	3c	30	LYS	CA-C	5.12	1.59	1.52
1	3r	162	ARG	CD-NE	5.12	1.53	1.46
1	4a	40	PHE	C-N	5.12	1.40	1.33
1	4g	87	HIS	CA-CB	5.12	1.65	1.53
1	4h	135	ILE	CA-CB	5.12	1.60	1.54
1	4k	100	ARG	CA-CB	5.12	1.61	1.53
1	4G	203	LYS	CA-C	-5.12	1.46	1.52
1	4P	196	PRO	CA-C	5.12	1.60	1.52
1	4S	90	PRO	CA-CB	5.12	1.60	1.53
1	4S	135	ILE	N-CA	-5.12	1.39	1.46
1	51	40	PHE	CA-C	5.12	1.59	1.52
1	5n	127	GLY	CA-C	-5.12	1.46	1.52
1	5x	129	ILE	CA-C	5.12	1.59	1.52
1	5A	174	ALA	CA-C	-5.12	1.45	1.52
1	6j	172	LEU	CA-C	-5.12	1.46	1.52
1	6p	1	PRO	C-N	5.12	1.40	1.33
1	75	86	VAL	CA-CB	-5.12	1.49	1.54
1	7g	102	SER	C-O	-5.12	1.17	1.24
1	7g	145	TYR	CA-C	-5.12	1.45	1.52
1	7k	214	MET	CA-C	5.12	1.59	1.52
1	7K	107	THR	C-N	5.12	1.41	1.33
1	7M	100	ARG	N-CA	-5.12	1.40	1.45
1	81	225	GLY	CA-C	-5.12	1.43	1.51
1	8r	108	THR	CA-C	5.12	1.59	1.52
1	8t	12	HIS	CA-CB	5.12	1.61	1.53
1	8A	195	ASN	CA-C	5.12	1.59	1.53
1	8V	18	ARG	CB-CG	5.12	1.67	1.52
1	9q	206	GLY	C-N	5.12	1.40	1.34
1	9K	56	LEU	CA-CB	5.12	1.61	1.53
1	9W	82	ARG	N-CA	-5.12	1.40	1.46
1	9Z	84	HIS	CA-CB	-5.12	1.47	1.53
1	aa	173	ARG	N-CA	-5.12	1.40	1.46
1	at	65	ALA	N-CA	-5.12	1.40	1.46
1	12	161	PHE	CA-C	-5.12	1.46	1.52
1	b1	38	PRO	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	be	174	ALA	CA-C	-5.12	1.46	1.52
1	bl	13	GLN	N-CA	-5.12	1.39	1.46
1	bq	61	GLY	C-N	5.12	1.40	1.33
1	bt	35	GLU	C-N	5.12	1.40	1.33
1	bx	178	SER	N-CA	5.12	1.52	1.46
1	bM	84	HIS	ND1-CE1	5.12	1.37	1.32
1	cd	167	ARG	CA-C	5.12	1.59	1.52
1	cf	114	GLN	N-CA	-5.12	1.40	1.46
1	1d	42	ALA	CA-CB	5.12	1.61	1.53
1	cm	182	LYS	N-CA	5.12	1.52	1.46
1	cv	92	GLU	N-CA	-5.12	1.41	1.46
1	cL	82	ARG	NE-CZ	-5.12	1.27	1.33
1	cL	126	VAL	N-CA	5.12	1.52	1.46
1	cM	32	PHE	N-CA	-5.12	1.39	1.46
1	dh	66	MET	C-N	5.12	1.40	1.33
1	dj	33	SER	C-N	5.12	1.39	1.34
1	dk	28	GLU	C-N	5.12	1.40	1.33
1	dk	98	GLU	CA-CB	5.12	1.60	1.53
1	ds	54	THR	CA-C	-5.12	1.46	1.52
1	dw	128	GLU	CA-CB	5.12	1.61	1.53
1	dx	220	GLY	N-CA	5.12	1.48	1.44
1	dQ	204	ALA	C-O	-5.12	1.18	1.24
1	dX	192	GLN	CA-CB	5.12	1.61	1.53
1	e2	107	THR	N-CA	5.12	1.52	1.46
1	e4	21	ASN	C-O	-5.12	1.18	1.24
1	ee	206	GLY	N-CA	5.12	1.51	1.44
1	en	1	PRO	C-N	5.12	1.39	1.33
1	er	91	ILE	CA-C	5.12	1.59	1.52
1	ex	18	ARG	CA-C	5.12	1.59	1.52
1	ey	52	LEU	CA-CB	5.12	1.61	1.53
1	eK	150	ILE	CA-C	5.12	1.59	1.52
1	eQ	70	LYS	N-CA	-5.12	1.40	1.46
1	eT	8	GLY	C-N	5.12	1.40	1.33
1	fb	229	ARG	CD-NE	5.12	1.53	1.46
1	fk	100	ARG	NE-CZ	-5.12	1.27	1.33
1	fI	41	SER	CA-CB	5.12	1.61	1.53
1	fS	62	HIS	N-CA	-5.12	1.39	1.46
1	g0	84	HIS	CG-CD2	5.12	1.41	1.35
1	a	87	HIS	N-CA	5.12	1.52	1.46
1	h	184	TRP	CA-CB	5.12	1.61	1.53
1	p	138	LEU	CA-C	5.12	1.59	1.52
1	4	146	SER	N-CA	5.12	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	68	MET	CA-C	-5.12	1.46	1.52
1	O	197	ASP	CA-CB	5.12	1.61	1.53
1	gp	143	ARG	CZ-NH1	-5.12	1.25	1.32
1	gr	45	GLU	C-N	5.12	1.39	1.33
1	gs	166	ASP	C-N	-5.12	1.27	1.33
1	gv	143	ARG	CD-NE	5.12	1.53	1.46
1	gF	138	LEU	C-O	-5.12	1.18	1.24
1	gL	196	PRO	N-CA	-5.12	1.40	1.47
1	gW	208	ALA	N-CA	5.12	1.54	1.46
1	hB	105	ALA	CA-CB	5.12	1.61	1.53
1	hQ	181	VAL	CA-CB	5.12	1.60	1.54
1	i6	190	LEU	C-N	5.12	1.40	1.33
1	ie	124	ILE	N-CA	5.12	1.52	1.46
1	ii	16	SER	CA-CB	5.12	1.64	1.53
1	iv	18	ARG	C-N	5.12	1.40	1.33
1	iB	133	TRP	NE1-CE2	5.12	1.43	1.37
1	iG	128	GLU	CA-CB	5.12	1.61	1.53
1	ja	80	TRP	CZ2-CH2	5.12	1.47	1.37
1	jb	33	SER	N-CA	-5.12	1.41	1.45
1	1U	132	ARG	C-N	5.12	1.40	1.33
1	jf	165	VAL	CA-C	-5.12	1.46	1.52
1	1Y	42	ALA	CA-C	5.12	1.59	1.52
1	jX	6	LEU	CA-CB	5.12	1.61	1.53
1	2X	159	GLU	CA-C	5.12	1.59	1.52
1	2Y	135	ILE	N-CA	-5.12	1.40	1.46
1	3j	186	THR	CA-C	-5.12	1.46	1.52
1	3y	27	VAL	C-N	5.12	1.40	1.33
1	3Y	186	THR	CA-C	-5.12	1.46	1.52
1	4f	128	GLU	C-N	5.12	1.40	1.33
1	4y	159	GLU	C-N	-5.12	1.27	1.33
1	4R	176	GLN	CA-C	5.12	1.59	1.52
1	56	68	MET	CA-C	5.12	1.59	1.52
1	5Z	124	ILE	C-O	-5.12	1.18	1.24
1	6z	21	ASN	CA-CB	5.12	1.61	1.53
1	6J	20	LEU	CA-C	5.12	1.59	1.52
1	7w	167	ARG	NE-CZ	-5.12	1.27	1.33
1	7B	124	ILE	CA-C	-5.12	1.48	1.52
1	80	136	LEU	C-N	5.12	1.40	1.33
1	a9	137	GLY	N-CA	5.12	1.52	1.45
1	aD	27	VAL	CA-C	-5.12	1.46	1.52
1	aL	56	LEU	CA-CB	5.12	1.61	1.53
1	aQ	85	PRO	CA-CB	5.12	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b1	163	ASP	CA-C	5.12	1.59	1.52
1	bm	149	SER	N-CA	5.12	1.52	1.45
1	bt	226	HIS	CD2-NE2	5.12	1.43	1.37
1	cK	21	ASN	C-O	-5.12	1.18	1.24
1	cK	81	ASP	CA-C	5.12	1.59	1.52
1	d6	211	LEU	C-N	5.12	1.40	1.33
1	d7	226	HIS	N-CA	-5.12	1.39	1.46
1	eg	42	ALA	CA-CB	5.12	1.61	1.53
1	eo	113	GLU	CA-C	5.12	1.59	1.52
1	ez	149	SER	CA-C	-5.12	1.46	1.52
1	eT	199	LYS	N-CA	-5.12	1.40	1.46
1	eZ	204	ALA	N-CA	-5.12	1.39	1.46
1	fk	128	GLU	N-CA	5.12	1.52	1.46
1	fp	171	THR	C-N	-5.12	1.27	1.33
1	fs	55	MET	CA-C	5.12	1.59	1.52
1	fD	197	ASP	CA-C	5.12	1.59	1.52
1	fE	157	PRO	CA-C	-5.12	1.44	1.52
1	g9	120	HIS	ND1-CE1	5.12	1.37	1.32
1	g9	225	GLY	N-CA	5.12	1.52	1.45
1	gw	27	VAL	CA-C	-5.12	1.46	1.52
1	gS	210	THR	N-CA	5.12	1.52	1.45
1	gX	64	ALA	CA-C	5.12	1.59	1.52
1	gY	210	THR	CA-CB	-5.12	1.44	1.53
1	ha	165	VAL	CA-CB	-5.12	1.48	1.54
1	hh	149	SER	C-N	5.12	1.40	1.33
1	1J	124	ILE	N-CA	5.12	1.51	1.46
1	hB	144	MET	C-O	5.12	1.30	1.24
1	hG	55	MET	N-CA	-5.12	1.40	1.46
1	1L	89	GLY	N-CA	5.12	1.51	1.44
1	hR	38	PRO	CA-C	5.12	1.59	1.52
1	hZ	128	GLU	CA-C	5.12	1.59	1.52
1	hZ	162	ARG	CA-CB	5.12	1.61	1.53
1	i9	4	GLN	N-CA	-5.12	1.40	1.46
1	ib	190	LEU	CA-C	5.12	1.59	1.52
1	ie	10	MET	CA-CB	5.12	1.61	1.53
1	1P	81	ASP	C-N	5.12	1.40	1.33
1	iq	20	LEU	CA-CB	5.12	1.61	1.53
1	ir	5	ASN	C-N	5.12	1.40	1.33
1	iz	50	GLN	CD-NE2	5.12	1.44	1.33
1	iC	109	SER	CA-C	-5.12	1.46	1.52
1	iD	27	VAL	CA-CB	5.12	1.60	1.54
1	iH	221	VAL	CA-C	5.12	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iI	162	ARG	C-N	5.12	1.40	1.33
1	iJ	71	GLU	C-N	5.12	1.40	1.33
1	iP	9	GLN	CA-CB	5.12	1.62	1.53
1	iW	161	PHE	CA-CB	5.12	1.61	1.53
1	1W	163	ASP	CA-C	5.12	1.59	1.52
1	jG	97	ARG	CD-NE	5.12	1.53	1.46
1	jL	121	ASN	C-O	-5.12	1.21	1.25
1	jS	149	SER	N-CA	-5.12	1.40	1.46
1	jU	48	THR	CA-C	-5.12	1.46	1.52
1	kh	53	ASN	CA-C	5.12	1.59	1.52
1	kt	145	TYR	CA-C	5.12	1.60	1.52
1	ky	162	ARG	N-CA	5.12	1.52	1.46
1	2H	184	TRP	CZ2-CH2	5.12	1.47	1.37
1	2Y	132	ARG	CA-C	5.12	1.59	1.52
1	3g	92	GLU	CA-C	5.12	1.59	1.52
1	3k	159	GLU	CA-C	-5.12	1.46	1.52
1	3o	142	VAL	CA-CB	5.12	1.60	1.54
1	3t	81	ASP	CA-CB	5.12	1.62	1.53
1	3z	169	TYR	CA-C	5.12	1.59	1.52
1	3B	28	GLU	C-O	-5.12	1.18	1.24
1	3D	85	PRO	CA-C	-5.12	1.45	1.52
1	43	132	ARG	CD-NE	5.12	1.53	1.46
1	44	16	SER	C-N	-5.12	1.26	1.33
1	49	31	ALA	N-CA	-5.12	1.39	1.46
1	4c	171	THR	CA-C	5.12	1.59	1.52
1	4P	43	LEU	C-N	5.12	1.40	1.33
1	5D	44	SER	CA-CB	5.12	1.62	1.53
1	6Z	144	MET	N-CA	-5.12	1.40	1.46
1	70	4	GLN	C-N	5.12	1.40	1.33
1	7c	47	ALA	CA-CB	5.12	1.61	1.53
1	7m	104	ILE	CA-C	-5.12	1.46	1.52
1	7o	46	GLY	N-CA	5.12	1.52	1.45
1	7r	214	MET	CA-CB	5.12	1.61	1.53
1	7E	57	ASN	CA-CB	5.12	1.62	1.53
1	7F	68	MET	C-N	5.12	1.40	1.33
1	7G	115	ILE	C-N	5.12	1.40	1.33
1	7J	58	THR	N-CA	-5.12	1.39	1.46
1	7O	143	ARG	CD-NE	5.12	1.53	1.46
1	7S	172	LEU	CA-CB	5.12	1.59	1.53
1	7T	125	PRO	N-CA	-5.12	1.40	1.47
1	8k	203	LYS	CA-C	-5.12	1.46	1.52
1	8m	97	ARG	CZ-NH1	-5.12	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8n	81	ASP	CA-CB	5.12	1.62	1.53
1	8q	212	GLU	CA-CB	5.12	1.61	1.53
1	8r	87	HIS	ND1-CE1	5.12	1.37	1.32
1	8z	49	PRO	CA-C	-5.12	1.45	1.52
1	8O	22	ALA	C-N	5.12	1.40	1.33
1	95	209	ALA	CA-C	-5.12	1.45	1.52
1	99	125	PRO	C-O	-5.12	1.17	1.24
1	9e	82	ARG	CD-NE	5.12	1.53	1.46
1	9g	223	GLY	C-N	-5.12	1.26	1.33
1	9y	51	ASP	CA-C	5.12	1.59	1.52
1	9C	80	TRP	C-N	5.12	1.41	1.33
1	9C	144	MET	C-N	5.12	1.40	1.33
1	9C	149	SER	C-O	5.12	1.30	1.23
1	9P	26	VAL	CA-CB	-5.12	1.48	1.54
1	9S	145	TYR	CA-CB	5.12	1.61	1.53
1	a0	112	GLN	C-N	5.12	1.40	1.33
1	a6	177	ALA	C-O	-5.12	1.17	1.23
1	a8	54	THR	C-O	5.12	1.30	1.24
1	aj	73	ILE	N-CA	5.12	1.52	1.46
1	13	220	GLY	CA-C	-5.12	1.44	1.51
1	aO	31	ALA	CA-CB	5.12	1.62	1.52
1	aR	55	MET	CA-CB	5.12	1.61	1.53
1	aV	64	ALA	CA-C	-5.12	1.46	1.52
1	b5	36	VAL	C-N	5.12	1.41	1.33
1	b9	92	GLU	N-CA	-5.12	1.41	1.46
1	bc	213	GLU	N-CA	-5.12	1.40	1.46
1	bh	69	LEU	CA-C	5.12	1.59	1.52
1	bo	167	ARG	CD-NE	5.12	1.53	1.46
1	bw	228	ALA	CA-C	5.12	1.59	1.52
1	bz	98	GLU	CA-C	5.12	1.58	1.52
1	bK	28	GLU	N-CA	-5.12	1.40	1.46
1	c4	107	THR	CA-C	-5.12	1.46	1.52
1	cg	26	VAL	CA-CB	-5.12	1.48	1.54
1	cl	67	GLN	C-N	5.12	1.40	1.33
1	cq	207	PRO	C-N	5.12	1.40	1.33
1	cJ	34	PRO	C-O	-5.12	1.17	1.24
1	1h	147	PRO	CA-CB	5.12	1.61	1.53
1	cX	37	ILE	CA-C	5.12	1.57	1.52
1	d0	134	ILE	CA-C	-5.12	1.46	1.52
1	d6	80	TRP	CA-CB	5.12	1.61	1.53
1	d9	19	THR	C-N	5.12	1.40	1.33
1	dd	165	VAL	CA-C	5.12	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1m	177	ALA	CA-C	5.12	1.58	1.52
1	dP	49	PRO	CA-C	5.12	1.60	1.52
1	dQ	211	LEU	CA-C	-5.12	1.46	1.52
1	dY	82	ARG	CD-NE	5.12	1.53	1.46
1	et	116	GLY	N-CA	5.12	1.52	1.45
1	eD	167	ARG	C-N	5.12	1.40	1.33
1	eJ	138	LEU	CA-C	5.12	1.59	1.52
1	1t	162	ARG	CZ-NH2	-5.12	1.26	1.33
1	eQ	168	PHE	N-CA	5.12	1.52	1.46
1	eY	150	ILE	C-N	5.12	1.40	1.33
1	f8	141	ILE	C-O	-5.12	1.17	1.24
1	fg	7	GLN	C-O	-5.12	1.17	1.23
1	fm	73	ILE	CB-CG1	5.12	1.63	1.53
1	fu	178	SER	CA-CB	5.12	1.62	1.53
1	1y	168	PHE	CA-C	-5.12	1.46	1.52
1	fM	80	TRP	C-O	-5.12	1.18	1.24
1	a	141	ILE	C-O	-5.12	1.18	1.24
1	q	84	HIS	C-O	-5.12	1.20	1.25
1	2	99	PRO	N-CD	-5.12	1.40	1.47
1	u	106	GLY	C-O	-5.12	1.16	1.24
1	w	92	GLU	CA-CB	5.12	1.60	1.53
1	z	34	PRO	C-N	5.12	1.40	1.33
1	B	3	VAL	N-CA	-5.12	1.40	1.46
1	G	110	THR	C-N	5.12	1.40	1.33
1	N	73	ILE	CA-CB	-5.12	1.47	1.54
1	O	229	ARG	CD-NE	5.12	1.53	1.46
1	hs	69	LEU	CA-C	-5.12	1.46	1.52
1	i3	59	VAL	C-N	5.12	1.41	1.33
1	iw	178	SER	N-CA	5.12	1.52	1.45
1	1Q	85	PRO	CA-C	-5.12	1.45	1.52
1	iJ	155	GLN	CA-C	5.12	1.59	1.52
1	jO	38	PRO	CA-CB	-5.12	1.46	1.53
1	jP	161	PHE	CG-CD1	5.12	1.49	1.38
1	k5	118	MET	CA-CB	5.12	1.61	1.53
1	kD	200	THR	C-N	5.12	1.40	1.33
1	2w	84	HIS	CG-ND1	5.12	1.43	1.38
1	2A	63	GLN	C-N	5.12	1.40	1.34
1	2S	86	VAL	CA-CB	-5.12	1.48	1.54
1	32	209	ALA	CA-CB	5.12	1.61	1.53
1	3n	3	VAL	N-CA	-5.12	1.40	1.46
1	3p	13	GLN	N-CA	-5.12	1.39	1.46
1	3F	186	THR	N-CA	-5.12	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3R	214	MET	N-CA	-5.12	1.40	1.46
1	3W	105	ALA	CA-C	-5.12	1.45	1.52
1	3Y	26	VAL	C-N	5.12	1.40	1.33
1	4a	221	VAL	C-N	5.12	1.40	1.33
1	4b	70	LYS	CA-CB	5.12	1.61	1.53
1	4g	176	GLN	CA-CB	5.12	1.58	1.52
1	4r	9	GLN	CA-CB	5.12	1.60	1.53
1	4x	10	MET	SD-CE	5.12	1.92	1.79
1	4B	129	ILE	CA-C	-5.12	1.46	1.52
1	4I	87	HIS	CG-CD2	-5.12	1.30	1.35
1	4M	55	MET	CA-C	5.12	1.59	1.52
1	4M	110	THR	N-CA	5.12	1.52	1.45
1	59	52	LEU	CA-CB	5.12	1.61	1.53
1	5l	173	ARG	C-N	5.12	1.40	1.33
1	6b	121	ASN	CA-C	5.12	1.58	1.52
1	6n	20	LEU	CA-CB	5.12	1.61	1.53
1	6y	187	GLU	C-N	-5.12	1.26	1.33
1	6P	185	MET	CA-C	5.12	1.59	1.52
1	6W	70	LYS	CA-CB	5.12	1.61	1.53
1	7b	31	ALA	C-N	5.12	1.40	1.33
1	7I	153	ILE	CA-C	5.12	1.59	1.52
1	8b	25	LYS	N-CA	-5.12	1.40	1.46
1	8j	82	ARG	CD-NE	5.12	1.53	1.46
1	8P	211	LEU	N-CA	5.12	1.53	1.46
1	8X	167	ARG	CA-C	5.12	1.59	1.52
1	9k	28	GLU	CA-CB	5.12	1.61	1.53
1	9K	37	ILE	CA-CB	5.12	1.57	1.53
1	af	119	THR	N-CA	5.12	1.52	1.46
1	ag	114	GLN	CA-C	-5.12	1.46	1.52
1	aW	171	THR	CA-C	-5.12	1.46	1.52
1	b8	204	ALA	CA-CB	5.12	1.61	1.53
1	bi	147	PRO	CA-CB	-5.12	1.47	1.53
1	bj	87	HIS	CE1-NE2	-5.12	1.27	1.32
1	bj	176	GLN	C-N	5.12	1.40	1.33
1	bl	158	LYS	C-O	5.12	1.30	1.23
1	bp	122	PRO	CA-C	5.12	1.63	1.52
1	by	211	LEU	CA-CB	5.12	1.61	1.53
1	bD	209	ALA	C-N	5.12	1.40	1.33
1	cd	164	TYR	CA-C	5.12	1.59	1.52
1	ce	162	ARG	C-N	5.12	1.40	1.33
1	cA	2	ILE	CA-C	5.12	1.58	1.52
1	cU	104	ILE	C-N	5.12	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dW	143	ARG	N-CA	-5.12	1.40	1.46
1	eg	134	ILE	N-CA	5.12	1.52	1.46
1	eF	83	LEU	CA-CB	5.12	1.61	1.53
1	1t	133	TRP	CD2-CE3	-5.12	1.32	1.40
1	eW	212	GLU	N-CA	-5.12	1.40	1.46
1	1w	195	ASN	N-CA	5.12	1.52	1.45
1	1w	200	THR	C-O	5.12	1.30	1.24
1	fG	88	ALA	C-N	5.12	1.41	1.33
1	g0	145	TYR	N-CA	-5.12	1.39	1.46
1	3	150	ILE	N-CA	-5.12	1.40	1.46
1	gF	190	LEU	C-N	5.12	1.40	1.33
1	gM	157	PRO	N-CA	-5.12	1.40	1.47
1	gP	175	GLU	N-CA	-5.12	1.40	1.46
1	gY	120	HIS	CB-CG	-5.12	1.43	1.50
1	hh	12	HIS	ND1-CE1	5.12	1.37	1.32
1	hn	196	PRO	C-O	-5.12	1.17	1.24
1	hu	137	GLY	C-O	5.12	1.29	1.23
1	hx	129	ILE	C-O	5.12	1.29	1.24
1	ij	208	ALA	CA-CB	5.12	1.62	1.53
1	ir	59	VAL	C-N	5.12	1.41	1.33
1	iv	92	GLU	CA-C	5.12	1.59	1.52
1	iI	187	GLU	CA-C	5.12	1.59	1.52
1	j0	66	MET	CA-CB	5.12	1.61	1.53
1	j4	89	GLY	N-CA	5.12	1.51	1.44
1	j8	146	SER	CA-C	5.12	1.58	1.52
1	jE	130	TYR	CA-CB	5.12	1.61	1.53
1	jG	160	PRO	CA-C	-5.12	1.47	1.52
1	1Y	80	TRP	CA-C	5.12	1.59	1.52
1	jR	59	VAL	CA-CB	5.12	1.61	1.54
1	jR	178	SER	CA-CB	5.12	1.62	1.53
1	k1	71	GLU	N-CA	-5.12	1.40	1.46
1	kf	167	ARG	CD-NE	5.12	1.53	1.46
1	kE	37	ILE	C-N	5.12	1.40	1.34
1	kK	42	ALA	C-N	5.12	1.40	1.34
1	la	177	ALA	CA-CB	5.12	1.61	1.53
1	lb	167	ARG	N-CA	5.12	1.52	1.46
1	le	26	VAL	C-N	-5.12	1.27	1.33
1	li	65	ALA	N-CA	-5.12	1.40	1.46
1	lk	133	TRP	C-N	5.12	1.40	1.33
1	28	214	MET	CA-C	5.12	1.59	1.52
1	lC	60	GLY	N-CA	5.12	1.52	1.45
1	lI	49	PRO	N-CA	-5.12	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lQ	189	LEU	N-CA	5.12	1.52	1.46
1	2D	41	SER	CA-C	-5.12	1.46	1.52
1	2G	182	LYS	CA-CB	5.12	1.61	1.53
1	2K	184	TRP	CZ2-CH2	5.12	1.47	1.37
1	2R	88	ALA	CA-CB	5.12	1.62	1.53
1	35	98	GLU	CA-C	5.12	1.58	1.53
1	36	104	ILE	N-CA	-5.12	1.40	1.46
1	3d	169	TYR	CZ-OH	5.12	1.48	1.38
1	3n	28	GLU	CA-CB	5.12	1.61	1.53
1	3o	35	GLU	C-N	5.12	1.40	1.33
1	3B	5	ASN	C-N	5.12	1.40	1.33
1	3J	86	VAL	N-CA	5.12	1.52	1.46
1	3Q	126	VAL	C-N	5.12	1.41	1.33
1	3S	100	ARG	CA-CB	5.12	1.60	1.53
1	3Y	80	TRP	C-N	5.12	1.41	1.33
1	44	61	GLY	C-N	5.12	1.40	1.33
1	4g	7	GLN	N-CA	-5.12	1.40	1.46
1	4i	160	PRO	N-CA	-5.12	1.42	1.47
1	4q	229	ARG	CA-C	-5.12	1.46	1.52
1	4B	120	HIS	CA-C	-5.12	1.46	1.53
1	4E	218	CYS	N-CA	5.12	1.53	1.46
1	5e	197	ASP	C-O	-5.12	1.17	1.24
1	5v	114	GLN	N-CA	5.12	1.52	1.46
1	5x	170	LYS	C-N	5.12	1.40	1.33
1	5W	226	HIS	C-N	5.12	1.42	1.33
1	63	11	VAL	CA-C	-5.12	1.46	1.52
1	6d	162	ARG	CZ-NH2	-5.12	1.26	1.33
1	6l	132	ARG	C-N	5.12	1.40	1.33
1	6F	218	CYS	N-CA	-5.12	1.39	1.46
1	6G	138	LEU	CA-CB	5.12	1.61	1.53
1	6N	12	HIS	ND1-CE1	5.12	1.37	1.32
1	6N	28	GLU	CA-C	5.12	1.59	1.52
1	6Q	202	LEU	N-CA	-5.12	1.39	1.46
1	75	47	ALA	N-CA	-5.12	1.39	1.46
1	78	108	THR	N-CA	5.12	1.52	1.46
1	7b	37	ILE	C-N	5.12	1.40	1.34
1	7e	147	PRO	N-CA	-5.12	1.41	1.47
1	7k	87	HIS	CG-ND1	5.12	1.43	1.38
1	7n	99	PRO	C-N	5.12	1.41	1.33
1	7w	221	VAL	CA-CB	-5.12	1.47	1.53
1	7P	49	PRO	C-N	5.12	1.40	1.33
1	7T	183	ASN	N-CA	-5.12	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8g	58	THR	CA-C	5.12	1.59	1.52
1	8I	23	TRP	N-CA	-5.12	1.40	1.46
1	8Q	42	ALA	N-CA	5.12	1.52	1.46
1	8W	112	GLN	N-CA	5.12	1.52	1.46
1	9d	167	ARG	C-O	-5.12	1.17	1.24
1	9f	74	ASN	CA-C	5.12	1.59	1.52
1	9o	204	ALA	CA-C	-5.12	1.45	1.52
1	9r	23	TRP	C-N	-5.12	1.27	1.33
1	9v	226	HIS	CG-CD2	-5.12	1.30	1.35
1	9x	131	LYS	CA-C	-5.12	1.45	1.52
1	9B	51	ASP	CA-C	-5.12	1.46	1.52
1	9D	67	GLN	CA-C	-5.12	1.46	1.52
1	9H	215	MET	N-CA	5.12	1.52	1.46
1	9S	17	PRO	CA-C	5.12	1.59	1.52
1	a8	169	TYR	CA-CB	5.12	1.61	1.53
1	ah	43	LEU	N-CA	-5.12	1.40	1.46
1	ai	110	THR	CA-C	5.12	1.59	1.52
1	aj	143	ARG	CD-NE	5.12	1.53	1.46
1	aT	62	HIS	ND1-CE1	-5.12	1.27	1.32
1	ba	27	VAL	C-N	5.12	1.40	1.33
1	bg	226	HIS	CE1-NE2	5.12	1.37	1.32
1	bk	12	HIS	CE1-NE2	5.12	1.37	1.32
1	bH	6	LEU	CA-C	-5.12	1.46	1.52
1	bN	21	ASN	N-CA	-5.12	1.40	1.46
1	bY	120	HIS	CB-CG	5.12	1.57	1.50
1	cd	86	VAL	CA-C	5.12	1.59	1.52
1	ce	23	TRP	C-O	5.12	1.28	1.23
1	1d	58	THR	CA-CB	5.12	1.62	1.53
1	cl	228	ALA	C-N	5.12	1.40	1.33
1	cx	103	ASP	C-N	5.12	1.40	1.33
1	1g	135	ILE	CA-CB	-5.12	1.47	1.54
1	cV	65	ALA	CA-CB	5.12	1.62	1.53
1	d0	77	ALA	CA-CB	5.12	1.61	1.53
1	d6	76	GLU	C-O	-5.12	1.18	1.24
1	db	96	MET	CA-C	5.12	1.59	1.52
1	dB	230	VAL	CA-CB	-5.12	1.49	1.54
1	dR	120	HIS	CE1-NE2	-5.12	1.27	1.32
1	e6	212	GLU	N-CA	5.12	1.52	1.46
1	eg	102	SER	N-CA	-5.12	1.40	1.46
1	ek	74	ASN	CA-CB	5.12	1.61	1.53
1	eC	207	PRO	C-N	5.12	1.41	1.33
1	eE	58	THR	N-CA	5.12	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1s	191	VAL	CA-C	-5.12	1.45	1.52
1	eG	120	HIS	C-N	5.12	1.38	1.33
1	1t	29	GLU	CA-C	5.12	1.59	1.52
1	fa	25	LYS	CA-C	5.12	1.59	1.52
1	fc	129	ILE	C-N	5.12	1.40	1.33
1	fn	21	ASN	CA-C	5.12	1.59	1.52
1	fx	59	VAL	CA-C	-5.12	1.47	1.53
1	fC	57	ASN	N-CA	-5.12	1.39	1.46
1	1y	16	SER	C-N	-5.12	1.27	1.34
1	fF	33	SER	CA-CB	5.12	1.61	1.53
1	fV	73	ILE	CA-CB	-5.12	1.48	1.54
1	g2	215	MET	CA-C	5.12	1.59	1.52
1	g5	18	ARG	CD-NE	5.12	1.53	1.46
1	e	44	SER	N-CA	5.12	1.51	1.46
1	i	196	PRO	N-CD	5.12	1.54	1.47
1	t	80	TRP	CZ2-CH2	5.12	1.47	1.37
1	z	49	PRO	CA-C	5.12	1.59	1.52
1	J	115	ILE	N-CA	5.12	1.52	1.46
1	R	157	PRO	N-CD	-5.12	1.40	1.47
1	g9	50	GLN	N-CA	5.11	1.52	1.46
1	ga	229	ARG	CD-NE	5.11	1.53	1.46
1	gn	158	LYS	C-N	5.11	1.38	1.33
1	gE	39	MET	N-CA	5.11	1.52	1.46
1	h0	179	GLN	C-N	5.11	1.40	1.33
1	h2	144	MET	CA-C	5.11	1.59	1.52
1	hQ	219	GLN	CA-CB	5.11	1.61	1.53
1	hR	48	THR	CA-C	5.11	1.59	1.52
1	hY	113	GLU	C-N	5.11	1.40	1.33
1	i3	15	ILE	CA-CB	-5.11	1.48	1.54
1	1O	18	ARG	NE-CZ	-5.11	1.27	1.33
1	il	202	LEU	CA-CB	5.11	1.61	1.53
1	im	85	PRO	CA-CB	5.11	1.60	1.53
1	io	49	PRO	CA-CB	-5.11	1.46	1.53
1	iw	228	ALA	CA-CB	5.11	1.61	1.53
1	j4	164	TYR	N-CA	-5.11	1.40	1.46
1	jh	40	PHE	CA-C	5.11	1.59	1.52
1	jl	26	VAL	CA-CB	-5.11	1.48	1.54
1	jn	230	VAL	C-O	5.11	1.29	1.24
1	jv	179	GLN	C-N	5.11	1.40	1.33
1	1W	72	THR	C-N	-5.11	1.27	1.33
1	1W	113	GLU	C-N	5.11	1.40	1.33
1	jw	161	PHE	N-CA	-5.11	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jx	105	ALA	CA-C	5.11	1.59	1.52
1	jy	131	LYS	C-N	5.11	1.40	1.33
1	jA	226	HIS	CD2-NE2	-5.11	1.32	1.37
1	jF	160	PRO	N-CA	-5.11	1.42	1.46
1	jG	203	LYS	C-N	5.11	1.40	1.33
1	jH	115	ILE	C-N	5.11	1.40	1.33
1	jL	157	PRO	C-N	5.11	1.40	1.33
1	jN	164	TYR	CA-C	-5.11	1.46	1.52
1	kc	72	THR	N-CA	5.11	1.52	1.46
1	kq	89	GLY	N-CA	5.11	1.51	1.44
1	23	79	GLU	CA-CB	5.11	1.61	1.53
1	kH	16	SER	CA-CB	5.11	1.61	1.52
1	lm	3	VAL	N-CA	5.11	1.52	1.46
1	lu	124	ILE	CA-C	5.11	1.57	1.53
1	lx	62	HIS	CG-ND1	5.11	1.43	1.38
1	lH	224	PRO	CA-CB	-5.11	1.46	1.53
1	lR	153	ILE	CA-C	5.11	1.59	1.52
1	2b	196	PRO	N-CD	-5.11	1.40	1.47
1	2i	164	TYR	CA-CB	5.11	1.61	1.53
1	2v	227	LYS	CA-C	-5.11	1.46	1.53
1	2G	15	ILE	C-O	-5.11	1.18	1.24
1	2O	210	THR	CA-CB	-5.11	1.45	1.53
1	2P	202	LEU	CA-CB	5.11	1.61	1.53
1	2R	101	GLY	CA-C	5.11	1.57	1.52
1	3A	126	VAL	CA-C	5.11	1.59	1.52
1	3C	195	ASN	CA-C	-5.11	1.48	1.53
1	3R	230	VAL	N-CA	5.11	1.52	1.46
1	4a	87	HIS	ND1-CE1	5.11	1.37	1.32
1	4l	19	THR	C-N	5.11	1.40	1.33
1	4s	205	LEU	CB-CG	5.11	1.63	1.53
1	4u	91	ILE	N-CA	-5.11	1.39	1.46
1	4z	16	SER	CA-C	5.11	1.58	1.53
1	4A	50	GLN	N-CA	-5.11	1.40	1.46
1	4I	76	GLU	C-N	5.11	1.40	1.33
1	4L	99	PRO	C-N	5.11	1.40	1.33
1	53	98	GLU	C-N	-5.11	1.21	1.33
1	5t	149	SER	CA-C	5.11	1.59	1.52
1	5y	184	TRP	NE1-CE2	-5.11	1.31	1.37
1	5A	84	HIS	CA-C	5.11	1.58	1.52
1	5E	195	ASN	N-CA	-5.11	1.38	1.45
1	67	226	HIS	CG-ND1	-5.11	1.32	1.38
1	6a	150	ILE	CA-CB	-5.11	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6d	14	ALA	C-N	5.11	1.39	1.33
1	6z	87	HIS	CB-CG	5.11	1.57	1.50
1	6D	54	THR	N-CA	5.11	1.52	1.46
1	6J	152	ASP	N-CA	-5.11	1.39	1.46
1	6T	226	HIS	ND1-CE1	5.11	1.37	1.32
1	73	163	ASP	CA-CB	5.11	1.61	1.53
1	76	22	ALA	CA-C	5.11	1.59	1.52
1	7n	95	GLN	C-N	5.11	1.41	1.33
1	7u	210	THR	C-N	5.11	1.40	1.33
1	7A	92	GLU	CA-C	5.11	1.59	1.52
1	7K	95	GLN	CA-C	5.11	1.59	1.52
1	8n	15	ILE	CB-CG1	5.11	1.63	1.53
1	8p	202	LEU	C-N	5.11	1.41	1.33
1	8w	108	THR	N-CA	5.11	1.52	1.46
1	90	41	SER	C-N	-5.11	1.27	1.33
1	92	15	ILE	C-N	5.11	1.41	1.33
1	97	12	HIS	C-N	5.11	1.40	1.33
1	98	11	VAL	N-CA	5.11	1.52	1.46
1	9r	211	LEU	C-N	5.11	1.40	1.33
1	9s	65	ALA	CA-CB	5.11	1.61	1.53
1	9z	204	ALA	CA-CB	-5.11	1.45	1.53
1	9G	218	CYS	CA-CB	5.11	1.62	1.53
1	9S	31	ALA	C-O	-5.11	1.17	1.24
1	as	30	LYS	N-CA	5.11	1.52	1.46
1	at	166	ASP	CA-C	5.11	1.59	1.52
1	az	62	HIS	CA-C	-5.11	1.46	1.53
1	aP	12	HIS	CE1-NE2	-5.11	1.27	1.32
1	b5	51	ASP	CA-CB	5.11	1.61	1.53
1	b8	77	ALA	C-N	5.11	1.40	1.33
1	bu	87	HIS	CE1-NE2	5.11	1.37	1.32
1	bu	139	ASN	CA-CB	5.11	1.61	1.53
1	bB	196	PRO	N-CA	-5.11	1.40	1.47
1	19	116	GLY	CA-C	5.11	1.57	1.52
1	bF	161	PHE	CA-CB	5.11	1.61	1.53
1	bT	226	HIS	CB-CG	5.11	1.57	1.50
1	c3	156	GLY	CA-C	5.11	1.59	1.51
1	ce	100	ARG	C-N	5.11	1.40	1.33
1	cm	59	VAL	C-O	-5.11	1.18	1.24
1	cp	145	TYR	C-N	5.11	1.41	1.33
1	cq	180	GLU	C-O	-5.11	1.18	1.24
1	cA	143	ARG	N-CA	-5.11	1.40	1.46
1	cS	148	THR	CA-C	-5.11	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1i	12	HIS	ND1-CE1	5.11	1.37	1.32
1	dl	67	GLN	CA-C	5.11	1.59	1.52
1	dG	35	GLU	CA-C	5.11	1.59	1.52
1	dG	140	LYS	C-N	5.11	1.40	1.33
1	dM	68	MET	CA-C	5.11	1.59	1.52
1	dO	17	PRO	N-CD	-5.11	1.40	1.47
1	dR	129	ILE	CA-CB	-5.11	1.48	1.54
1	dR	142	VAL	CA-CB	-5.11	1.48	1.54
1	1n	212	GLU	CA-C	5.11	1.59	1.52
1	dX	111	LEU	CA-C	-5.11	1.45	1.52
1	en	204	ALA	CA-C	-5.11	1.45	1.52
1	ev	189	LEU	CA-C	-5.11	1.46	1.52
1	eA	143	ARG	C-N	5.11	1.41	1.33
1	eS	79	GLU	CA-CB	5.11	1.61	1.53
1	f7	186	THR	C-O	-5.11	1.18	1.24
1	fc	45	GLU	CA-CB	5.11	1.60	1.53
1	fp	28	GLU	CA-CB	5.11	1.61	1.53
1	fx	36	VAL	CA-C	5.11	1.59	1.52
1	1z	226	HIS	CB-CG	-5.11	1.43	1.50
1	g	51	ASP	C-N	5.11	1.40	1.33
1	j	169	TYR	CA-CB	5.11	1.61	1.53
1	2	173	ARG	CA-CB	5.11	1.61	1.53
1	N	7	GLN	CA-CB	5.11	1.61	1.53
1	X	84	HIS	CB-CG	5.11	1.57	1.50
1	7	50	GLN	CA-CB	5.11	1.61	1.53
1	ge	16	SER	C-N	-5.11	1.27	1.34
1	1F	45	GLU	CA-CB	5.11	1.59	1.53
1	gY	168	PHE	CA-C	5.11	1.59	1.52
1	hj	134	ILE	C-N	5.11	1.40	1.33
1	hz	146	SER	CA-CB	5.11	1.61	1.52
1	hM	75	GLU	CA-CB	5.11	1.61	1.53
1	ij	154	ARG	CA-CB	5.11	1.60	1.53
1	iM	188	THR	CA-C	-5.11	1.48	1.52
1	j9	120	HIS	CB-CG	5.11	1.57	1.50
1	je	157	PRO	N-CD	-5.11	1.40	1.47
1	jM	163	ASP	CA-CB	5.11	1.61	1.53
1	jT	18	ARG	C-N	5.11	1.40	1.33
1	jT	113	GLU	CA-C	-5.11	1.46	1.52
1	jU	139	ASN	CA-C	5.11	1.59	1.52
1	k1	128	GLU	N-CA	5.11	1.52	1.46
1	24	39	MET	CA-CB	5.11	1.61	1.53
1	lo	186	THR	C-N	5.11	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lE	68	MET	C-N	5.11	1.40	1.33
1	lL	30	LYS	N-CA	5.11	1.52	1.46
1	2n	41	SER	N-CA	-5.11	1.40	1.46
1	2y	126	VAL	C-N	5.11	1.40	1.33
1	2C	219	GLN	C-N	5.11	1.41	1.33
1	2V	25	LYS	N-CA	-5.11	1.40	1.46
1	32	84	HIS	ND1-CE1	5.11	1.37	1.32
1	3g	169	TYR	CA-CB	5.11	1.61	1.53
1	3h	74	ASN	CA-CB	5.11	1.61	1.53
1	3L	173	ARG	CA-CB	5.11	1.61	1.53
1	3R	82	ARG	N-CA	-5.11	1.39	1.46
1	41	59	VAL	C-N	5.11	1.41	1.33
1	4j	180	GLU	N-CA	5.11	1.52	1.46
1	4Z	192	GLN	CA-CB	5.11	1.61	1.53
1	5q	201	ILE	CA-C	-5.11	1.46	1.52
1	5C	113	GLU	CA-CB	5.11	1.61	1.53
1	5D	197	ASP	N-CA	-5.11	1.40	1.46
1	66	187	GLU	CA-CB	5.11	1.61	1.53
1	6V	216	THR	C-N	5.11	1.40	1.33
1	7a	29	GLU	C-N	5.11	1.40	1.33
1	7o	35	GLU	C-N	5.11	1.40	1.33
1	7p	10	MET	SD-CE	5.11	1.92	1.79
1	8B	93	PRO	N-CD	5.11	1.54	1.47
1	8Y	207	PRO	CA-CB	5.11	1.61	1.53
1	9d	18	ARG	CD-NE	5.11	1.53	1.46
1	9e	92	GLU	CA-C	5.11	1.59	1.53
1	9j	160	PRO	CA-CB	5.11	1.61	1.53
1	9n	87	HIS	ND1-CE1	5.11	1.37	1.32
1	9q	76	GLU	CA-CB	5.11	1.62	1.53
1	9A	226	HIS	ND1-CE1	5.11	1.37	1.32
1	9P	141	ILE	CA-CB	-5.11	1.48	1.54
1	ai	154	ARG	CD-NE	5.11	1.53	1.46
1	ao	163	ASP	N-CA	-5.11	1.40	1.46
1	aI	197	ASP	CA-CB	5.11	1.61	1.53
1	aQ	131	LYS	C-N	5.11	1.40	1.33
1	aZ	91	ILE	CA-CB	-5.11	1.47	1.54
1	b7	142	VAL	CA-CB	-5.11	1.48	1.54
1	1c	84	HIS	CA-CB	5.11	1.62	1.53
1	1d	180	GLU	C-N	-5.11	1.27	1.33
1	cA	142	VAL	CA-CB	-5.11	1.48	1.54
1	1g	82	ARG	C-N	5.11	1.40	1.33
1	d1	27	VAL	C-N	5.11	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	d7	24	VAL	N-CA	-5.11	1.39	1.46
1	d7	82	ARG	CD-NE	5.11	1.53	1.46
1	d8	145	TYR	CA-CB	5.11	1.60	1.53
1	d9	52	LEU	CA-C	5.11	1.59	1.52
1	dp	2	ILE	CA-C	5.11	1.59	1.52
1	dF	144	MET	C-N	5.11	1.41	1.33
1	dF	186	THR	CA-C	-5.11	1.46	1.52
1	dL	42	ALA	CA-C	5.11	1.59	1.52
1	ef	106	GLY	CA-C	-5.11	1.44	1.51
1	eh	134	ILE	N-CA	-5.11	1.40	1.46
1	el	70	LYS	N-CA	-5.11	1.40	1.46
1	f4	221	VAL	C-N	5.11	1.41	1.33
1	fp	16	SER	N-CA	-5.11	1.37	1.46
1	fp	99	PRO	C-N	5.11	1.41	1.33
1	d	4	GLN	CA-CB	5.11	1.61	1.53
1	o	20	LEU	C-N	5.11	1.40	1.33
1	Q	205	LEU	CA-CB	5.11	1.61	1.53
1	ge	213	GLU	N-CA	-5.11	1.40	1.46
1	gn	49	PRO	CA-CB	5.11	1.60	1.53
1	gE	89	GLY	CA-C	5.11	1.59	1.51
1	gL	43	LEU	N-CA	5.11	1.52	1.46
1	gX	109	SER	CA-CB	5.11	1.61	1.53
1	h4	7	GLN	C-N	5.11	1.41	1.33
1	ha	123	PRO	C-N	-5.11	1.29	1.33
1	hb	22	ALA	CA-C	5.11	1.59	1.52
1	hb	194	ALA	C-O	-5.11	1.17	1.23
1	he	186	THR	C-O	-5.11	1.18	1.24
1	i2	166	ASP	CA-CB	5.11	1.61	1.53
1	i9	120	HIS	ND1-CE1	5.11	1.37	1.32
1	ip	65	ALA	N-CA	5.11	1.52	1.46
1	iN	113	GLU	CA-CB	5.11	1.61	1.53
1	jf	174	ALA	N-CA	-5.11	1.40	1.46
1	1V	134	ILE	N-CA	-5.11	1.40	1.46
1	ju	130	TYR	CA-CB	5.11	1.61	1.53
1	ju	158	LYS	CA-CB	5.11	1.60	1.53
1	jN	170	LYS	C-N	5.11	1.40	1.33
1	jX	159	GLU	CA-CB	5.11	1.61	1.53
1	k9	10	MET	SD-CE	5.11	1.92	1.79
1	ke	67	GLN	C-O	-5.11	1.18	1.24
1	ks	158	LYS	C-N	5.11	1.40	1.33
1	kA	151	LEU	C-N	5.11	1.41	1.33
1	kX	61	GLY	C-O	-5.11	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lA	30	LYS	CA-CB	5.11	1.61	1.53
1	lE	212	GLU	C-N	5.11	1.40	1.33
1	2b	188	THR	N-CA	5.11	1.51	1.46
1	2s	201	ILE	CA-C	-5.11	1.46	1.52
1	2z	99	PRO	N-CD	5.11	1.54	1.47
1	2B	120	HIS	CE1-NE2	5.11	1.37	1.32
1	2L	174	ALA	CA-CB	5.11	1.62	1.53
1	3h	15	ILE	CA-C	5.11	1.58	1.52
1	3h	48	THR	CA-C	-5.11	1.46	1.52
1	3i	192	GLN	CA-C	-5.11	1.45	1.52
1	3q	185	MET	CA-CB	5.11	1.61	1.53
1	5T	203	LYS	CA-C	5.11	1.59	1.52
1	5Z	9	GLN	C-O	-5.11	1.17	1.23
1	61	137	GLY	N-CA	5.11	1.52	1.45
1	68	149	SER	C-O	-5.11	1.17	1.23
1	6a	142	VAL	CA-C	5.11	1.59	1.52
1	6h	42	ALA	C-N	5.11	1.40	1.33
1	6l	11	VAL	CA-CB	5.11	1.60	1.54
1	6m	97	ARG	N-CA	-5.11	1.39	1.46
1	6n	222	GLY	C-N	5.11	1.41	1.33
1	6A	128	GLU	C-O	-5.11	1.18	1.24
1	6Q	88	ALA	CA-C	5.11	1.59	1.52
1	6Y	1	PRO	N-CA	5.11	1.54	1.47
1	78	83	LEU	CA-CB	5.11	1.61	1.53
1	7x	6	LEU	CA-CB	5.11	1.60	1.53
1	7z	63	GLN	N-CA	-5.11	1.40	1.46
1	7D	175	GLU	CA-CB	5.11	1.61	1.53
1	7F	226	HIS	CA-C	-5.11	1.45	1.52
1	7H	171	THR	CB-OG1	-5.11	1.35	1.43
1	7N	143	ARG	NE-CZ	-5.11	1.27	1.33
1	7Q	20	LEU	CA-C	-5.11	1.46	1.52
1	7Y	154	ARG	C-N	5.11	1.40	1.33
1	87	111	LEU	CA-CB	5.11	1.61	1.53
1	8c	18	ARG	NE-CZ	5.11	1.38	1.33
1	8j	67	GLN	CA-C	-5.11	1.46	1.52
1	8t	12	HIS	CE1-NE2	-5.11	1.27	1.32
1	8F	27	VAL	N-CA	-5.11	1.40	1.46
1	8K	199	LYS	C-O	-5.11	1.18	1.24
1	8W	173	ARG	NE-CZ	-5.11	1.27	1.33
1	97	150	ILE	CB-CG1	5.11	1.63	1.53
1	9b	13	GLN	CA-C	5.11	1.58	1.52
1	9d	11	VAL	CA-CB	5.11	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9F	27	VAL	C-N	5.11	1.40	1.33
1	9H	181	VAL	CA-CB	-5.11	1.48	1.54
1	a0	217	ALA	C-N	5.11	1.39	1.33
1	10	37	ILE	CA-CB	5.11	1.57	1.53
1	aa	214	MET	CA-C	-5.11	1.46	1.52
1	ai	219	GLN	C-O	-5.11	1.17	1.24
1	ao	121	ASN	CA-CB	5.11	1.61	1.53
1	at	2	ILE	CA-C	5.11	1.58	1.52
1	aU	84	HIS	ND1-CE1	5.11	1.37	1.32
1	b8	18	ARG	CA-CB	5.11	1.61	1.53
1	b9	211	LEU	C-N	5.11	1.40	1.33
1	bm	188	THR	C-N	-5.11	1.27	1.33
1	bw	31	ALA	CA-CB	5.11	1.62	1.52
1	bA	81	ASP	C-N	5.11	1.41	1.33
1	bE	173	ARG	CD-NE	5.11	1.53	1.46
1	bG	6	LEU	C-N	5.11	1.40	1.33
1	1a	3	VAL	CA-CB	-5.11	1.48	1.54
1	1b	94	GLY	CA-C	-5.11	1.45	1.52
1	c2	87	HIS	N-CA	5.11	1.52	1.45
1	c3	27	VAL	C-O	-5.11	1.18	1.24
1	cf	73	ILE	C-O	5.11	1.29	1.24
1	ch	69	LEU	CA-CB	5.11	1.61	1.53
1	cu	25	LYS	N-CA	-5.11	1.39	1.46
1	cz	77	ALA	CA-CB	-5.11	1.45	1.53
1	cL	164	TYR	C-O	5.11	1.29	1.24
1	cN	126	VAL	CA-CB	5.11	1.62	1.54
1	d3	144	MET	C-N	5.11	1.41	1.33
1	d4	137	GLY	C-N	5.11	1.40	1.33
1	dp	57	ASN	C-N	5.11	1.41	1.33
1	ds	163	ASP	N-CA	5.11	1.52	1.46
1	dP	19	THR	C-N	5.11	1.40	1.33
1	dV	163	ASP	N-CA	-5.11	1.40	1.46
1	e3	70	LYS	CA-C	5.11	1.59	1.52
1	1q	1	PRO	N-CA	5.11	1.54	1.47
1	et	80	TRP	C-N	5.11	1.40	1.33
1	eL	20	LEU	CB-CG	5.11	1.63	1.53
1	fg	150	ILE	CA-C	5.11	1.60	1.52
1	1x	38	PRO	N-CD	-5.11	1.40	1.47
1	l	48	THR	C-O	-5.11	1.18	1.23
1	o	175	GLU	CA-CB	5.11	1.62	1.53
1	s	112	GLN	N-CA	5.11	1.52	1.46
1	t	189	LEU	CA-CB	5.11	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	v	80	TRP	NE1-CE2	-5.11	1.31	1.37
1	F	63	GLN	CA-C	5.11	1.59	1.52
1	J	3	VAL	N-CA	5.11	1.52	1.46
1	7	128	GLU	C-N	5.11	1.40	1.33
1	g8	230	VAL	C-O	5.11	1.30	1.24
1	gp	137	GLY	C-N	5.11	1.40	1.33
1	gx	56	LEU	C-O	-5.11	1.18	1.24
1	gC	143	ARG	C-N	5.11	1.40	1.33
1	gP	101	GLY	N-CA	-5.11	1.39	1.45
1	gY	107	THR	N-CA	5.11	1.52	1.46
1	h5	191	VAL	CA-C	5.11	1.59	1.52
1	hd	140	LYS	C-N	5.11	1.40	1.33
1	hx	213	GLU	C-N	5.11	1.41	1.34
1	i0	50	GLN	CA-C	-5.11	1.46	1.52
1	i6	1	PRO	N-CA	5.11	1.54	1.47
1	i6	213	GLU	CA-C	5.11	1.59	1.52
1	id	147	PRO	N-CD	5.11	1.54	1.47
1	ik	58	THR	CB-OG1	-5.11	1.35	1.43
1	iN	182	LYS	N-CA	5.11	1.52	1.46
1	j1	93	PRO	C-N	5.11	1.41	1.33
1	1U	16	SER	CA-C	-5.11	1.47	1.53
1	jc	207	PRO	N-CA	-5.11	1.40	1.47
1	jn	71	GLU	CA-CB	5.11	1.61	1.53
1	1W	200	THR	N-CA	-5.11	1.40	1.46
1	1X	164	TYR	CA-C	5.11	1.59	1.52
1	k1	132	ARG	CA-C	5.11	1.59	1.52
1	kC	121	ASN	N-CA	-5.11	1.39	1.46
1	kH	134	ILE	CA-C	-5.11	1.46	1.52
1	l3	31	ALA	CA-C	-5.11	1.46	1.52
1	lA	82	ARG	CA-C	5.11	1.59	1.52
1	lH	156	GLY	C-N	5.11	1.38	1.33
1	lM	6	LEU	CA-CB	5.11	1.61	1.53
1	2f	209	ALA	CA-C	5.11	1.59	1.52
1	2p	62	HIS	CB-CG	5.11	1.57	1.50
1	2E	84	HIS	CD2-NE2	5.11	1.43	1.37
1	3k	86	VAL	C-N	5.11	1.39	1.33
1	3x	143	ARG	NE-CZ	-5.11	1.27	1.33
1	4q	224	PRO	CA-C	5.11	1.59	1.52
1	4v	190	LEU	N-CA	5.11	1.52	1.46
1	4z	179	GLN	CA-C	-5.11	1.46	1.52
1	4B	88	ALA	C-N	5.11	1.41	1.33
1	4K	213	GLU	C-O	-5.11	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4N	62	HIS	CB-CG	5.11	1.57	1.50
1	4T	182	LYS	CA-C	-5.11	1.46	1.52
1	4X	143	ARG	CZ-NH1	-5.11	1.25	1.32
1	59	159	GLU	N-CA	-5.11	1.41	1.45
1	5i	40	PHE	C-O	-5.11	1.18	1.24
1	5k	30	LYS	C-N	-5.11	1.27	1.32
1	5q	79	GLU	N-CA	-5.11	1.40	1.46
1	68	83	LEU	CA-CB	5.11	1.62	1.53
1	6m	97	ARG	CZ-NH2	-5.11	1.26	1.33
1	71	84	HIS	CE1-NE2	5.11	1.37	1.32
1	7d	84	HIS	CE1-NE2	5.11	1.37	1.32
1	7m	44	SER	C-N	5.11	1.40	1.33
1	7C	104	ILE	CA-C	5.11	1.59	1.52
1	8i	124	ILE	CA-C	5.11	1.56	1.52
1	8A	69	LEU	C-N	5.11	1.40	1.33
1	9w	81	ASP	CA-C	5.11	1.59	1.52
1	9J	33	SER	CA-C	-5.11	1.47	1.53
1	a4	19	THR	N-CA	5.11	1.52	1.46
1	11	98	GLU	N-CA	5.11	1.52	1.46
1	at	12	HIS	CE1-NE2	5.11	1.37	1.32
1	b3	132	ARG	CZ-NH2	-5.11	1.26	1.33
1	bs	218	CYS	CA-CB	5.11	1.61	1.53
1	19	219	GLN	C-N	5.11	1.40	1.33
1	bG	174	ALA	C-N	5.11	1.40	1.33
1	bR	165	VAL	CA-CB	-5.11	1.47	1.54
1	c8	45	GLU	CA-C	5.11	1.59	1.52
1	cH	87	HIS	N-CA	-5.11	1.39	1.46
1	cR	130	TYR	CA-CB	5.11	1.61	1.53
1	cS	95	GLN	N-CA	-5.11	1.39	1.45
1	d5	195	ASN	CA-CB	5.11	1.60	1.53
1	dd	80	TRP	CA-CB	5.11	1.61	1.53
1	ds	59	VAL	CA-C	-5.11	1.46	1.52
1	dN	12	HIS	C-N	5.11	1.40	1.33
1	e8	54	THR	CA-C	5.11	1.59	1.52
1	eK	47	ALA	C-N	5.11	1.41	1.33
1	eM	158	LYS	CA-C	-5.11	1.46	1.52
1	eQ	112	GLN	CA-CB	-5.11	1.45	1.53
1	fl	160	PRO	CA-C	-5.11	1.46	1.52
1	fw	120	HIS	CB-CG	-5.11	1.43	1.50
1	fC	100	ARG	N-CA	5.11	1.52	1.45
1	1	181	VAL	CA-C	-5.11	1.46	1.52
1	gj	176	GLN	C-N	5.11	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gl	199	LYS	CA-CB	5.11	1.61	1.53
1	gW	103	ASP	CA-CB	5.11	1.61	1.53
1	h1	113	GLU	CA-CB	5.11	1.61	1.53
1	h5	216	THR	N-CA	5.11	1.52	1.46
1	h6	23	TRP	NE1-CE2	-5.11	1.31	1.37
1	hj	117	TRP	CA-CB	5.11	1.61	1.53
1	1J	62	HIS	CG-CD2	5.11	1.41	1.35
1	hu	214	MET	CA-CB	5.11	1.61	1.53
1	hz	78	ALA	CA-C	-5.11	1.46	1.52
1	hz	110	THR	C-O	-5.11	1.17	1.23
1	1M	62	HIS	ND1-CE1	5.11	1.37	1.32
1	i0	121	ASN	CA-C	5.11	1.56	1.52
1	ie	23	TRP	CA-CB	5.11	1.61	1.53
1	ir	162	ARG	C-N	5.11	1.41	1.33
1	is	47	ALA	CA-C	5.11	1.59	1.52
1	ix	91	ILE	C-N	5.11	1.39	1.33
1	iy	12	HIS	N-CA	-5.11	1.39	1.46
1	iN	12	HIS	ND1-CE1	5.11	1.37	1.32
1	iT	71	GLU	C-N	5.11	1.40	1.33
1	j0	117	TRP	CA-CB	5.11	1.61	1.53
1	j8	178	SER	CA-CB	5.11	1.61	1.53
1	jd	173	ARG	CD-NE	5.11	1.53	1.46
1	jk	33	SER	N-CA	5.11	1.52	1.46
1	js	204	ALA	CA-CB	-5.11	1.45	1.53
1	20	3	VAL	CA-C	-5.11	1.46	1.52
1	kg	161	PHE	CA-CB	5.11	1.61	1.53
1	ki	173	ARG	CA-CB	5.11	1.61	1.53
1	kv	143	ARG	N-CA	-5.11	1.40	1.46
1	ky	44	SER	CA-CB	5.11	1.60	1.53
1	kL	4	GLN	CA-C	-5.11	1.46	1.52
1	l1	27	VAL	N-CA	5.11	1.52	1.46
1	l1	132	ARG	CA-C	-5.11	1.46	1.52
1	l6	106	GLY	CA-C	5.11	1.58	1.51
1	lp	107	THR	N-CA	-5.11	1.40	1.46
1	lw	92	GLU	CA-CB	5.11	1.60	1.53
1	29	1	PRO	N-CD	5.11	1.54	1.47
1	lJ	126	VAL	C-N	5.11	1.41	1.33
1	lK	123	PRO	CA-C	-5.11	1.46	1.52
1	2i	87	HIS	CA-CB	5.11	1.60	1.53
1	2J	195	ASN	CA-CB	5.11	1.61	1.53
1	2P	14	ALA	CA-CB	5.11	1.61	1.53
1	2Q	182	LYS	CA-C	5.11	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2Z	136	LEU	C-N	5.11	1.40	1.33
1	3A	95	GLN	CA-CB	5.11	1.62	1.54
1	3G	115	ILE	C-N	5.11	1.40	1.33
1	3P	158	LYS	C-N	5.11	1.41	1.33
1	40	162	ARG	CA-C	5.11	1.59	1.52
1	4e	12	HIS	CD2-NE2	5.11	1.43	1.37
1	4j	44	SER	C-O	-5.11	1.17	1.24
1	4n	18	ARG	NE-CZ	5.11	1.38	1.33
1	4F	12	HIS	CB-CG	5.11	1.57	1.50
1	4J	21	ASN	CA-CB	5.11	1.61	1.53
1	4Y	161	PHE	CA-CB	5.11	1.61	1.53
1	55	98	GLU	C-N	-5.11	1.27	1.33
1	5j	141	ILE	CB-CG1	5.11	1.63	1.53
1	5A	138	LEU	CA-C	-5.11	1.46	1.52
1	5I	23	TRP	CA-CB	5.11	1.61	1.53
1	5N	184	TRP	NE1-CE2	-5.11	1.31	1.37
1	5V	190	LEU	C-N	5.11	1.39	1.33
1	67	200	THR	C-N	5.11	1.40	1.33
1	6f	176	GLN	N-CA	5.11	1.52	1.46
1	6n	182	LYS	N-CA	-5.11	1.40	1.46
1	6q	173	ARG	CD-NE	5.11	1.53	1.46
1	6s	207	PRO	N-CA	-5.11	1.41	1.47
1	6w	154	ARG	C-N	5.11	1.40	1.33
1	6I	166	ASP	C-N	5.11	1.40	1.33
1	6N	69	LEU	C-O	-5.11	1.18	1.24
1	6P	92	GLU	CA-C	5.11	1.57	1.52
1	6X	86	VAL	CA-C	-5.11	1.46	1.52
1	7z	139	ASN	N-CA	5.11	1.52	1.46
1	7I	91	ILE	CA-CB	5.11	1.60	1.54
1	7K	13	GLN	CA-C	5.11	1.58	1.52
1	7T	164	TYR	C-N	5.11	1.40	1.33
1	89	228	ALA	C-N	5.11	1.40	1.33
1	8r	96	MET	C-N	5.11	1.40	1.33
1	8r	144	MET	CA-C	-5.11	1.45	1.52
1	8C	24	VAL	CA-C	5.11	1.59	1.52
1	8F	206	GLY	N-CA	5.11	1.51	1.44
1	97	100	ARG	CA-C	5.11	1.60	1.53
1	9w	155	GLN	CA-CB	5.11	1.61	1.53
1	9O	25	LYS	C-N	5.11	1.40	1.33
1	a1	113	GLU	C-N	5.11	1.40	1.33
1	a4	179	GLN	CA-C	5.11	1.59	1.52
1	ae	82	ARG	CZ-NH1	-5.11	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	al	44	SER	CA-C	5.11	1.59	1.52
1	ar	99	PRO	CA-CB	5.11	1.60	1.53
1	at	136	LEU	CB-CG	5.11	1.63	1.53
1	az	120	HIS	C-N	5.11	1.41	1.33
1	bk	159	GLU	CA-C	-5.11	1.45	1.52
1	bs	207	PRO	N-CA	-5.11	1.40	1.47
1	bJ	218	CYS	C-N	-5.11	1.26	1.33
1	bL	31	ALA	CA-C	5.11	1.59	1.52
1	cb	175	GLU	CA-CB	5.11	1.62	1.53
1	co	214	MET	N-CA	5.11	1.52	1.46
1	1e	190	LEU	CA-CB	5.11	1.61	1.53
1	cB	84	HIS	CD2-NE2	5.11	1.43	1.37
1	cD	13	GLN	C-O	-5.11	1.18	1.23
1	cG	129	ILE	CB-CG1	-5.11	1.43	1.53
1	cS	123	PRO	C-N	5.11	1.37	1.33
1	cX	28	GLU	C-N	5.11	1.41	1.33
1	cZ	69	LEU	CA-CB	5.11	1.61	1.53
1	d6	129	ILE	CA-C	-5.11	1.46	1.52
1	d9	155	GLN	CA-CB	5.11	1.60	1.53
1	dd	100	ARG	CD-NE	5.11	1.53	1.46
1	dk	68	MET	N-CA	-5.11	1.40	1.46
1	1l	141	ILE	CA-CB	5.11	1.60	1.54
1	dD	11	VAL	CA-C	5.11	1.58	1.52
1	e8	69	LEU	CA-CB	5.11	1.61	1.53
1	e9	184	TRP	C-O	-5.11	1.18	1.24
1	ep	78	ALA	C-N	5.11	1.40	1.33
1	1r	23	TRP	CZ2-CH2	5.11	1.47	1.37
1	eH	158	LYS	CA-CB	5.11	1.61	1.53
1	eM	40	PHE	C-O	-5.11	1.17	1.24
1	eS	50	GLN	CA-C	5.11	1.59	1.52
1	1u	84	HIS	ND1-CE1	5.11	1.37	1.32
1	f9	120	HIS	CB-CG	-5.11	1.43	1.50
1	1w	55	MET	CA-C	5.11	1.59	1.52
1	1x	45	GLU	C-N	5.11	1.41	1.33
1	fK	33	SER	CA-CB	5.11	1.61	1.54
1	fY	222	GLY	C-N	5.11	1.41	1.33
1	x	215	MET	CA-C	5.11	1.59	1.52
1	M	180	GLU	CA-CB	5.11	1.62	1.53
1	O	148	THR	CA-C	5.11	1.58	1.52
1	T	143	ARG	NE-CZ	5.11	1.38	1.33
1	5	12	HIS	C-N	5.11	1.40	1.33
1	8	209	ALA	CA-CB	-5.11	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gg	193	ASN	CA-C	5.11	1.59	1.52
1	gh	67	GLN	C-N	5.11	1.40	1.33
1	go	228	ALA	CA-CB	5.11	1.61	1.53
1	gz	8	GLY	N-CA	5.11	1.50	1.45
1	gz	191	VAL	CA-CB	-5.11	1.47	1.54
1	gA	37	ILE	CA-C	5.11	1.58	1.52
1	gJ	183	ASN	CA-CB	5.11	1.61	1.53
1	gO	92	GLU	C-N	5.11	1.39	1.33
1	1G	20	LEU	CA-CB	5.11	1.61	1.53
1	ht	114	GLN	C-N	5.11	1.40	1.33
1	hF	154	ARG	N-CA	-5.11	1.39	1.45
1	1L	129	ILE	CA-CB	5.11	1.60	1.54
1	i1	193	ASN	C-O	5.11	1.30	1.24
1	i7	32	PHE	CA-CB	5.11	1.60	1.53
1	i8	62	HIS	CB-CG	5.11	1.57	1.50
1	ie	226	HIS	C-N	5.11	1.41	1.33
1	ik	117	TRP	C-O	-5.11	1.18	1.24
1	in	97	ARG	CA-C	-5.11	1.46	1.52
1	ir	164	TYR	C-O	5.11	1.29	1.24
1	ix	77	ALA	C-N	5.11	1.40	1.33
1	iN	108	THR	N-CA	5.11	1.52	1.46
1	iU	74	ASN	N-CA	-5.11	1.40	1.46
1	iV	10	MET	CA-C	-5.11	1.46	1.52
1	1X	91	ILE	CA-CB	5.11	1.59	1.54
1	jG	208	ALA	N-CA	-5.11	1.40	1.46
1	k1	56	LEU	C-N	5.11	1.40	1.33
1	20	32	PHE	CG-CD1	5.11	1.49	1.38
1	kb	186	THR	CA-CB	5.11	1.61	1.53
1	kw	89	GLY	CA-C	5.11	1.59	1.51
1	kC	37	ILE	CB-CG1	5.11	1.63	1.53
1	kM	64	ALA	C-N	5.11	1.40	1.33
1	kR	202	LEU	C-N	5.11	1.41	1.33
1	kU	184	TRP	CD2-CE3	5.11	1.48	1.40
1	25	83	LEU	CA-C	5.11	1.59	1.52
1	lc	15	ILE	CA-C	-5.11	1.46	1.52
1	lk	112	GLN	C-N	5.11	1.40	1.33
1	lL	167	ARG	NE-CZ	5.11	1.38	1.33
1	2c	190	LEU	C-N	5.11	1.40	1.34
1	2i	35	GLU	C-N	5.11	1.40	1.33
1	2j	93	PRO	N-CA	-5.11	1.40	1.47
1	2q	55	MET	CA-C	5.11	1.59	1.52
1	3a	169	TYR	C-N	5.11	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3o	185	MET	N-CA	-5.11	1.40	1.46
1	3q	211	LEU	N-CA	5.11	1.52	1.46
1	3J	121	ASN	CA-C	5.11	1.58	1.52
1	3X	181	VAL	N-CA	-5.11	1.40	1.46
1	43	12	HIS	ND1-CE1	5.11	1.37	1.32
1	43	207	PRO	CA-CB	5.11	1.59	1.53
1	46	79	GLU	CA-C	-5.11	1.46	1.52
1	4i	16	SER	CA-C	5.11	1.59	1.53
1	4v	76	GLU	C-N	5.11	1.40	1.33
1	50	38	PRO	C-N	5.11	1.40	1.33
1	5e	99	PRO	CA-CB	5.11	1.60	1.53
1	5l	228	ALA	N-CA	-5.11	1.39	1.46
1	5r	145	TYR	N-CA	5.11	1.52	1.46
1	5y	182	LYS	C-N	5.11	1.40	1.33
1	5O	124	ILE	CA-C	5.11	1.57	1.53
1	61	152	ASP	CA-C	5.11	1.59	1.52
1	6r	124	ILE	N-CA	-5.11	1.42	1.46
1	6A	14	ALA	C-O	5.11	1.30	1.23
1	6L	54	THR	N-CA	5.11	1.52	1.46
1	7b	92	GLU	CA-C	5.11	1.58	1.52
1	7f	77	ALA	C-O	-5.11	1.18	1.24
1	7o	217	ALA	CA-C	-5.11	1.46	1.52
1	7s	67	GLN	N-CA	-5.11	1.40	1.46
1	7v	170	LYS	C-N	5.11	1.40	1.33
1	7z	208	ALA	C-N	5.11	1.40	1.33
1	7L	202	LEU	CB-CG	5.11	1.63	1.53
1	7V	183	ASN	C-N	5.11	1.40	1.33
1	7W	8	GLY	CA-C	-5.11	1.46	1.52
1	7Y	179	GLN	CA-C	-5.11	1.46	1.52
1	85	133	TRP	CA-C	-5.11	1.46	1.52
1	8q	22	ALA	CA-C	-5.11	1.46	1.52
1	8r	127	GLY	N-CA	5.11	1.52	1.45
1	8G	198	CYS	C-N	5.11	1.40	1.33
1	8L	199	LYS	CA-C	5.11	1.59	1.52
1	8M	124	ILE	CA-C	5.11	1.58	1.52
1	90	154	ARG	NE-CZ	5.11	1.38	1.33
1	92	16	SER	CA-C	5.11	1.59	1.53
1	9f	103	ASP	N-CA	-5.11	1.40	1.46
1	9s	83	LEU	CA-CB	5.11	1.61	1.53
1	9Q	74	ASN	CA-CB	5.11	1.61	1.53
1	av	82	ARG	CA-CB	5.11	1.61	1.53
1	aP	140	LYS	C-O	5.11	1.29	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aS	155	GLN	CA-CB	5.11	1.62	1.53
1	b0	27	VAL	C-N	5.11	1.40	1.33
1	b6	87	HIS	CG-ND1	5.11	1.43	1.38
1	17	183	ASN	C-N	5.11	1.40	1.33
1	bo	30	LYS	C-O	5.11	1.31	1.24
1	bL	193	ASN	C-N	5.11	1.40	1.33
1	bQ	136	LEU	CA-C	5.11	1.59	1.52
1	c5	114	GLN	C-N	5.11	1.40	1.33
1	1c	169	TYR	C-N	5.11	1.40	1.33
1	cd	7	GLN	N-CA	5.11	1.52	1.46
1	cE	218	CYS	CA-C	-5.11	1.46	1.52
1	d1	4	GLN	CA-CB	-5.11	1.46	1.53
1	de	170	LYS	CA-CB	5.11	1.61	1.53
1	dv	160	PRO	CA-C	-5.11	1.46	1.52
1	dK	103	ASP	N-CA	-5.11	1.40	1.46
1	dY	97	ARG	CD-NE	5.11	1.53	1.46
1	ev	81	ASP	CA-CB	5.11	1.61	1.53
1	ey	97	ARG	CD-NE	5.11	1.53	1.46
1	eM	21	ASN	CA-CB	5.11	1.61	1.53
1	eQ	131	LYS	CA-C	-5.11	1.46	1.52
1	eS	107	THR	CA-CB	5.11	1.61	1.53
1	eU	112	GLN	C-N	5.11	1.40	1.33
1	f7	229	ARG	NE-CZ	-5.11	1.27	1.33
1	fh	196	PRO	C-O	-5.11	1.17	1.24
1	fG	16	SER	C-N	5.11	1.41	1.33
1	fI	135	ILE	N-CA	5.11	1.52	1.46
1	1z	114	GLN	CA-C	-5.11	1.46	1.52
1	fT	212	GLU	C-O	-5.11	1.18	1.24
1	i	40	PHE	C-O	-5.11	1.18	1.24
1	B	186	THR	CA-C	-5.11	1.46	1.52
1	D	222	GLY	CA-C	-5.11	1.44	1.51
1	S	208	ALA	CA-C	5.11	1.59	1.52
1	7	167	ARG	CA-C	-5.11	1.45	1.52
1	gC	10	MET	CA-C	5.10	1.58	1.52
1	h0	120	HIS	CG-CD2	5.10	1.41	1.35
1	h6	97	ARG	CD-NE	5.10	1.53	1.46
1	hY	203	LYS	CA-CB	5.10	1.61	1.53
1	iq	160	PRO	N-CA	-5.10	1.41	1.47
1	iw	127	GLY	N-CA	-5.10	1.39	1.45
1	1Q	41	SER	CA-C	-5.10	1.46	1.52
1	iZ	95	GLN	CD-NE2	5.10	1.44	1.33
1	jt	81	ASP	N-CA	-5.10	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kx	193	ASN	N-CA	5.10	1.52	1.46
1	kC	173	ARG	CD-NE	5.10	1.53	1.46
1	kH	204	ALA	CA-C	5.10	1.59	1.52
1	l4	147	PRO	N-CA	5.10	1.53	1.47
1	ln	122	PRO	C-N	5.10	1.39	1.33
1	29	78	ALA	C-N	5.10	1.40	1.33
1	lH	67	GLN	C-N	5.10	1.40	1.34
1	2f	54	THR	N-CA	-5.10	1.40	1.46
1	2I	52	LEU	C-N	5.10	1.40	1.33
1	2Q	80	TRP	CA-CB	5.10	1.61	1.53
1	2Q	199	LYS	CA-CB	5.10	1.61	1.53
1	2T	83	LEU	CA-CB	5.10	1.61	1.53
1	34	197	ASP	CA-CB	5.10	1.61	1.53
1	37	14	ALA	CA-C	5.10	1.59	1.52
1	3m	156	GLY	N-CA	5.10	1.51	1.44
1	3H	58	THR	CA-CB	-5.10	1.45	1.53
1	4o	50	GLN	CA-C	-5.10	1.46	1.52
1	4w	218	CYS	CA-C	-5.10	1.46	1.53
1	4y	173	ARG	CA-C	-5.10	1.45	1.52
1	4M	93	PRO	C-N	5.10	1.41	1.33
1	4M	120	HIS	C-N	5.10	1.40	1.33
1	54	18	ARG	CD-NE	5.10	1.53	1.46
1	56	120	HIS	C-N	5.10	1.39	1.33
1	5p	131	LYS	C-O	-5.10	1.18	1.24
1	5q	19	THR	C-N	5.10	1.40	1.33
1	5q	94	GLY	C-N	5.10	1.40	1.33
1	5r	67	GLN	CA-C	5.10	1.59	1.52
1	5F	84	HIS	CB-CG	-5.10	1.43	1.50
1	5W	229	ARG	C-N	5.10	1.39	1.33
1	60	196	PRO	N-CA	-5.10	1.40	1.47
1	6P	13	GLN	CA-CB	5.10	1.61	1.53
1	7o	207	PRO	CA-CB	5.10	1.59	1.53
1	8V	157	PRO	N-CA	-5.10	1.41	1.47
1	8W	165	VAL	C-N	5.10	1.40	1.33
1	9c	48	THR	C-N	5.10	1.41	1.34
1	9c	214	MET	CA-C	5.10	1.59	1.52
1	9g	162	ARG	NE-CZ	-5.10	1.27	1.33
1	9p	173	ARG	CD-NE	5.10	1.53	1.46
1	a4	7	GLN	C-N	5.10	1.39	1.33
1	aq	198	CYS	CA-CB	5.10	1.61	1.53
1	aA	10	MET	C-N	5.10	1.40	1.33
1	aC	35	GLU	CA-C	-5.10	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aD	41	SER	C-N	5.10	1.40	1.33
1	bf	221	VAL	CA-CB	-5.10	1.48	1.54
1	bu	117	TRP	C-N	5.10	1.40	1.33
1	bK	198	CYS	C-N	5.10	1.40	1.34
1	1a	113	GLU	N-CA	5.10	1.52	1.46
1	bO	38	PRO	N-CA	-5.10	1.40	1.47
1	dl	135	ILE	N-CA	5.10	1.52	1.46
1	dr	104	ILE	CA-CB	5.10	1.60	1.54
1	dt	82	ARG	CD-NE	5.10	1.53	1.46
1	dx	75	GLU	N-CA	-5.10	1.40	1.46
1	dQ	90	PRO	CA-C	5.10	1.59	1.52
1	en	129	ILE	C-N	-5.10	1.26	1.34
1	eL	126	VAL	N-CA	5.10	1.52	1.46
1	f2	84	HIS	ND1-CE1	5.10	1.37	1.32
1	fS	38	PRO	C-O	-5.10	1.18	1.24
1	fS	100	ARG	N-CA	5.10	1.52	1.45
1	g0	167	ARG	CA-C	5.10	1.59	1.52
1	i	104	ILE	CA-CB	5.10	1.60	1.54
1	7	200	THR	C-N	5.10	1.40	1.33
1	gd	113	GLU	C-N	5.10	1.40	1.33
1	gf	126	VAL	N-CA	-5.10	1.40	1.46
1	gB	103	ASP	C-N	5.10	1.40	1.33
1	gE	54	THR	C-N	5.10	1.40	1.33
1	gE	80	TRP	C-N	5.10	1.40	1.33
1	gF	96	MET	CA-C	5.10	1.58	1.52
1	gH	118	MET	N-CA	-5.10	1.39	1.46
1	gO	4	GLN	C-N	5.10	1.40	1.33
1	gX	120	HIS	CA-C	-5.10	1.46	1.52
1	h2	80	TRP	CA-CB	5.10	1.61	1.53
1	h3	25	LYS	C-N	5.10	1.40	1.33
1	h5	96	MET	CA-CB	5.10	1.62	1.53
1	hp	69	LEU	CA-C	-5.10	1.46	1.52
1	hv	87	HIS	ND1-CE1	5.10	1.37	1.32
1	hv	98	GLU	CA-CB	5.10	1.62	1.53
1	hx	54	THR	N-CA	5.10	1.52	1.46
1	hG	24	VAL	CA-C	5.10	1.59	1.52
1	hR	107	THR	N-CA	5.10	1.53	1.46
1	hU	155	GLN	CA-CB	5.10	1.62	1.53
1	iw	100	ARG	CD-NE	5.10	1.53	1.46
1	iA	5	ASN	C-N	5.10	1.41	1.33
1	iT	197	ASP	C-N	5.10	1.42	1.33
1	iU	195	ASN	CA-CB	5.10	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jj	154	ARG	C-N	5.10	1.40	1.33
1	jk	22	ALA	CA-CB	5.10	1.61	1.53
1	jl	65	ALA	N-CA	-5.10	1.39	1.46
1	js	154	ARG	CA-CB	-5.10	1.45	1.53
1	jt	4	GLN	C-N	5.10	1.40	1.33
1	jN	172	LEU	CA-CB	5.10	1.61	1.53
1	jO	150	ILE	CA-C	5.10	1.58	1.52
1	1Y	98	GLU	CA-C	5.10	1.59	1.52
1	1Y	148	THR	CA-C	-5.10	1.46	1.52
1	jZ	81	ASP	C-N	5.10	1.40	1.33
1	k2	87	HIS	CD2-NE2	5.10	1.43	1.37
1	k4	145	TYR	C-N	5.10	1.41	1.33
1	ka	152	ASP	CA-CB	5.10	1.60	1.53
1	ko	95	GLN	C-N	5.10	1.41	1.33
1	kJ	100	ARG	NE-CZ	-5.10	1.27	1.33
1	l2	141	ILE	CA-C	5.10	1.59	1.52
1	l5	187	GLU	CA-CB	5.10	1.61	1.53
1	l6	225	GLY	C-N	5.10	1.41	1.33
1	lc	32	PHE	CA-CB	5.10	1.60	1.53
1	le	198	CYS	CA-CB	5.10	1.61	1.53
1	li	213	GLU	CA-C	-5.10	1.46	1.52
1	lr	197	ASP	C-N	5.10	1.40	1.33
1	28	111	LEU	C-N	5.10	1.40	1.33
1	lu	86	VAL	C-O	-5.10	1.18	1.24
1	lz	15	ILE	C-O	-5.10	1.18	1.24
1	lz	118	MET	CA-CB	5.10	1.61	1.53
1	lR	32	PHE	C-N	5.10	1.39	1.33
1	2g	171	THR	CA-CB	5.10	1.61	1.53
1	2o	131	LYS	C-N	5.10	1.40	1.33
1	2p	217	ALA	C-N	5.10	1.40	1.33
1	2M	151	LEU	N-CA	-5.10	1.39	1.46
1	42	188	THR	C-N	5.10	1.41	1.33
1	46	213	GLU	CA-CB	5.10	1.61	1.53
1	4b	126	VAL	N-CA	-5.10	1.41	1.46
1	4p	226	HIS	C-N	5.10	1.40	1.33
1	4F	201	ILE	N-CA	5.10	1.52	1.46
1	4M	223	GLY	N-CA	5.10	1.51	1.44
1	55	227	LYS	C-N	5.10	1.41	1.33
1	57	83	LEU	N-CA	-5.10	1.39	1.46
1	5n	70	LYS	CA-C	-5.10	1.46	1.52
1	5w	12	HIS	C-N	5.10	1.40	1.33
1	69	114	GLN	N-CA	5.10	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6d	71	GLU	N-CA	-5.10	1.40	1.46
1	6g	229	ARG	CD-NE	5.10	1.53	1.46
1	6h	226	HIS	C-N	5.10	1.41	1.33
1	6k	122	PRO	CA-C	5.10	1.56	1.52
1	6t	176	GLN	C-N	5.10	1.40	1.33
1	6v	132	ARG	CD-NE	5.10	1.53	1.46
1	6x	207	PRO	N-CA	-5.10	1.40	1.47
1	6y	13	GLN	N-CA	5.10	1.51	1.45
1	6L	184	TRP	CA-CB	5.10	1.61	1.53
1	6L	226	HIS	ND1-CE1	5.10	1.37	1.32
1	6N	108	THR	N-CA	5.10	1.52	1.46
1	7p	134	ILE	CA-CB	-5.10	1.48	1.54
1	7x	66	MET	N-CA	5.10	1.52	1.46
1	7A	123	PRO	C-N	5.10	1.39	1.33
1	7C	187	GLU	CA-C	5.10	1.59	1.52
1	7J	91	ILE	CA-CB	-5.10	1.48	1.54
1	7N	22	ALA	C-N	5.10	1.40	1.33
1	7W	79	GLU	CA-CB	5.10	1.61	1.53
1	8d	62	HIS	ND1-CE1	-5.10	1.27	1.32
1	8T	205	LEU	CA-C	5.10	1.59	1.52
1	91	82	ARG	CD-NE	5.10	1.53	1.46
1	9p	17	PRO	CA-CB	5.10	1.61	1.53
1	9q	140	LYS	C-N	5.10	1.40	1.33
1	9u	161	PHE	N-CA	5.10	1.52	1.46
1	9z	78	ALA	CA-C	-5.10	1.46	1.52
1	Y	107	THR	N-CA	5.10	1.52	1.46
1	9R	217	ALA	CA-C	-5.10	1.46	1.53
1	9S	86	VAL	CA-C	5.10	1.57	1.52
1	9W	113	GLU	CA-CB	5.10	1.61	1.53
1	9Z	181	VAL	CA-C	-5.10	1.46	1.52
1	a9	103	ASP	C-N	5.10	1.40	1.33
1	10	113	GLU	CA-CB	5.10	1.61	1.53
1	ac	211	LEU	CA-CB	5.10	1.61	1.53
1	ae	127	GLY	CA-C	-5.10	1.45	1.51
1	ax	93	PRO	N-CA	-5.10	1.40	1.47
1	az	136	LEU	C-N	5.10	1.40	1.33
1	aC	44	SER	N-CA	-5.10	1.40	1.46
1	aC	62	HIS	CG-ND1	5.10	1.43	1.38
1	aT	125	PRO	CA-C	-5.10	1.45	1.52
1	aW	150	ILE	C-O	5.10	1.30	1.24
1	b0	179	GLN	CA-C	5.10	1.59	1.52
1	b3	180	GLU	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	b5	154	ARG	CZ-NH2	-5.10	1.26	1.33
1	bb	82	ARG	CA-C	5.10	1.59	1.52
1	bl	20	LEU	C-O	-5.10	1.18	1.24
1	bn	145	TYR	CA-C	-5.10	1.46	1.52
1	bp	133	TRP	CA-CB	5.10	1.61	1.53
1	bD	168	PHE	N-CA	-5.10	1.40	1.46
1	bL	63	GLN	C-N	5.10	1.40	1.33
1	bN	146	SER	CA-CB	5.10	1.60	1.53
1	c1	225	GLY	N-CA	5.10	1.50	1.45
1	cn	12	HIS	CB-CG	-5.10	1.43	1.50
1	co	84	HIS	CB-CG	5.10	1.57	1.50
1	cz	75	GLU	N-CA	5.10	1.52	1.46
1	cC	124	ILE	N-CA	-5.10	1.41	1.46
1	cQ	201	ILE	C-N	5.10	1.41	1.34
1	cT	229	ARG	CD-NE	5.10	1.53	1.46
1	d3	74	ASN	N-CA	5.10	1.52	1.46
1	dE	191	VAL	C-O	-5.10	1.18	1.24
1	dY	216	THR	N-CA	5.10	1.52	1.46
1	e4	112	GLN	N-CA	-5.10	1.40	1.46
1	ep	171	THR	N-CA	-5.10	1.40	1.46
1	eH	206	GLY	C-N	-5.10	1.29	1.33
1	eI	156	GLY	N-CA	5.10	1.51	1.44
1	eJ	127	GLY	CA-C	-5.10	1.46	1.52
1	eO	17	PRO	C-N	5.10	1.40	1.33
1	eY	15	ILE	CA-C	5.10	1.59	1.52
1	eY	226	HIS	ND1-CE1	-5.10	1.27	1.32
1	fn	118	MET	CA-C	5.10	1.59	1.52
1	fq	151	LEU	N-CA	-5.10	1.39	1.46
1	d	7	GLN	N-CA	5.10	1.52	1.45
1	u	104	ILE	CB-CG1	5.10	1.63	1.53
1	y	197	ASP	CA-CB	5.10	1.61	1.53
1	N	123	PRO	N-CA	5.10	1.53	1.47
1	S	85	PRO	CA-C	-5.10	1.47	1.52
1	T	102	SER	N-CA	-5.10	1.39	1.46
1	X	172	LEU	N-CA	-5.10	1.40	1.46
1	gh	208	ALA	CA-C	-5.10	1.45	1.52
1	gx	181	VAL	N-CA	5.10	1.52	1.46
1	gK	18	ARG	CZ-NH2	-5.10	1.26	1.33
1	gS	19	THR	N-CA	5.10	1.52	1.46
1	hh	186	THR	C-N	5.10	1.40	1.33
1	hq	139	ASN	C-N	5.10	1.40	1.33
1	hF	120	HIS	CA-C	5.10	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i3	154	ARG	N-CA	-5.10	1.39	1.45
1	in	98	GLU	CA-CB	5.10	1.61	1.53
1	iF	120	HIS	CG-CD2	-5.10	1.30	1.35
1	iG	124	ILE	C-O	-5.10	1.18	1.24
1	iK	120	HIS	CA-C	5.10	1.60	1.53
1	jf	13	GLN	CA-CB	5.10	1.62	1.53
1	jk	39	MET	C-N	5.10	1.40	1.33
1	jz	229	ARG	C-N	5.10	1.40	1.33
1	kt	116	GLY	N-CA	5.10	1.52	1.45
1	ky	36	VAL	CA-CB	-5.10	1.47	1.54
1	kG	88	ALA	CA-CB	5.10	1.62	1.54
1	kV	50	GLN	N-CA	5.10	1.52	1.46
1	l1	76	GLU	C-O	-5.10	1.18	1.24
1	l4	60	GLY	N-CA	5.10	1.52	1.45
1	lj	55	MET	CA-CB	5.10	1.61	1.53
1	2z	174	ALA	C-O	5.10	1.29	1.24
1	2J	7	GLN	N-CA	-5.10	1.40	1.46
1	38	159	GLU	CA-CB	5.10	1.61	1.53
1	3h	58	THR	C-O	-5.10	1.18	1.24
1	3h	183	ASN	CA-CB	5.10	1.61	1.53
1	3Q	133	TRP	CA-CB	5.10	1.61	1.53
1	3W	176	GLN	C-N	5.10	1.40	1.33
1	43	77	ALA	C-O	-5.10	1.18	1.24
1	4b	59	VAL	C-N	5.10	1.41	1.33
1	4c	24	VAL	C-N	5.10	1.40	1.33
1	4f	4	GLN	CA-C	5.10	1.59	1.52
1	4o	184	TRP	CZ2-CH2	5.10	1.47	1.37
1	4y	61	GLY	N-CA	5.10	1.52	1.45
1	5a	19	THR	N-CA	5.10	1.52	1.46
1	5Q	214	MET	C-N	-5.10	1.25	1.33
1	67	157	PRO	CA-CB	5.10	1.60	1.53
1	6H	85	PRO	CA-C	5.10	1.57	1.53
1	6K	130	TYR	CA-CB	5.10	1.61	1.53
1	74	150	ILE	N-CA	-5.10	1.40	1.46
1	7I	40	PHE	CA-C	-5.10	1.46	1.52
1	7R	127	GLY	N-CA	5.10	1.52	1.45
1	8K	196	PRO	CA-CB	5.10	1.60	1.53
1	9j	148	THR	CA-CB	-5.10	1.46	1.53
1	9r	133	TRP	N-CA	5.10	1.52	1.46
1	9w	182	LYS	C-N	5.10	1.40	1.33
1	9H	145	TYR	N-CA	-5.10	1.40	1.46
1	9S	208	ALA	CA-CB	-5.10	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9W	24	VAL	N-CA	-5.10	1.40	1.46
1	aT	1	PRO	C-N	5.10	1.38	1.33
1	aT	24	VAL	CA-C	5.10	1.60	1.52
1	bM	51	ASP	N-CA	-5.10	1.40	1.46
1	cf	87	HIS	CE1-NE2	-5.10	1.27	1.32
1	co	180	GLU	CA-C	-5.10	1.45	1.52
1	cA	162	ARG	N-CA	5.10	1.52	1.46
1	cW	41	SER	CA-CB	5.10	1.61	1.53
1	di	39	MET	C-N	5.10	1.40	1.33
1	ee	45	GLU	N-CA	5.10	1.52	1.46
1	eC	162	ARG	CA-CB	5.10	1.61	1.53
1	eG	41	SER	C-N	5.10	1.41	1.34
1	eK	196	PRO	N-CA	5.10	1.53	1.47
1	eX	144	MET	CA-CB	5.10	1.62	1.53
1	f2	153	ILE	N-CA	-5.10	1.40	1.46
1	ff	117	TRP	N-CA	5.10	1.52	1.46
1	fu	162	ARG	CZ-NH2	-5.10	1.26	1.33
1	fC	120	HIS	CG-CD2	5.10	1.41	1.35
1	fC	160	PRO	C-N	5.10	1.40	1.33
1	g1	168	PHE	C-O	-5.10	1.18	1.24
1	r	184	TRP	NE1-CE2	-5.10	1.31	1.37
1	K	171	THR	CA-CB	-5.10	1.45	1.53
1	gh	31	ALA	N-CA	5.10	1.52	1.46
1	1C	200	THR	N-CA	5.10	1.52	1.46
1	1C	226	HIS	CA-CB	5.10	1.61	1.53
1	gi	149	SER	CA-CB	5.10	1.62	1.53
1	1D	125	PRO	C-N	5.10	1.39	1.34
1	gt	25	LYS	CA-C	-5.10	1.46	1.52
1	gA	75	GLU	C-N	5.10	1.41	1.33
1	gE	76	GLU	C-N	5.10	1.40	1.33
1	gR	180	GLU	CA-CB	5.10	1.61	1.53
1	gS	44	SER	CA-CB	5.10	1.62	1.53
1	gU	228	ALA	CA-CB	-5.10	1.44	1.53
1	hf	110	THR	N-CA	-5.10	1.39	1.45
1	hk	163	ASP	CA-C	-5.10	1.45	1.52
1	1K	216	THR	CA-C	-5.10	1.46	1.52
1	hZ	214	MET	CG-SD	5.10	1.93	1.80
1	ic	180	GLU	CA-CB	5.10	1.61	1.53
1	ii	130	TYR	CA-CB	5.10	1.61	1.53
1	ii	153	ILE	CA-CB	5.10	1.59	1.53
1	iy	131	LYS	CA-C	5.10	1.59	1.52
1	iH	201	ILE	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iY	105	ALA	CA-CB	5.10	1.62	1.53
1	ja	41	SER	C-N	5.10	1.41	1.34
1	jH	12	HIS	CG-ND1	5.10	1.43	1.38
1	jH	226	HIS	CG-ND1	-5.10	1.32	1.38
1	jK	150	ILE	CA-C	-5.10	1.46	1.52
1	k3	80	TRP	CA-CB	5.10	1.61	1.53
1	k8	215	MET	CA-CB	5.10	1.60	1.53
1	kc	183	ASN	C-N	5.10	1.40	1.33
1	21	161	PHE	CG-CD2	5.10	1.49	1.38
1	kB	162	ARG	CA-CB	5.10	1.62	1.53
1	kJ	62	HIS	CA-CB	5.10	1.61	1.53
1	kN	120	HIS	CB-CG	5.10	1.57	1.50
1	l5	87	HIS	ND1-CE1	5.10	1.37	1.32
1	l5	175	GLU	CA-CB	5.10	1.62	1.53
1	ll	172	LEU	CA-C	5.10	1.59	1.52
1	ln	68	MET	C-N	5.10	1.40	1.33
1	lp	229	ARG	CD-NE	5.10	1.53	1.46
1	28	68	MET	N-CA	-5.10	1.40	1.46
1	2k	4	GLN	CA-CB	5.10	1.61	1.53
1	2k	141	ILE	CA-C	5.10	1.59	1.52
1	2n	47	ALA	CA-C	-5.10	1.46	1.52
1	2W	84	HIS	N-CA	5.10	1.52	1.46
1	38	89	GLY	CA-C	5.10	1.59	1.51
1	38	175	GLU	C-N	5.10	1.41	1.33
1	3c	15	ILE	CA-C	-5.10	1.46	1.52
1	3l	197	ASP	CA-CB	5.10	1.61	1.53
1	3F	7	GLN	CA-C	-5.10	1.46	1.52
1	3N	117	TRP	CA-CB	5.10	1.61	1.53
1	3P	102	SER	C-N	5.10	1.40	1.33
1	45	176	GLN	C-N	-5.10	1.27	1.33
1	48	6	LEU	N-CA	5.10	1.52	1.46
1	4f	154	ARG	CD-NE	5.10	1.53	1.46
1	4n	142	VAL	C-N	5.10	1.40	1.33
1	4H	10	MET	C-N	5.10	1.40	1.33
1	4Y	119	THR	C-N	5.10	1.40	1.33
1	51	198	CYS	C-N	5.10	1.40	1.33
1	55	22	ALA	C-N	5.10	1.40	1.33
1	5d	132	ARG	CZ-NH2	-5.10	1.26	1.33
1	5e	3	VAL	CA-C	5.10	1.58	1.52
1	5w	180	GLU	CA-CB	5.10	1.61	1.53
1	5y	189	LEU	CA-CB	5.10	1.61	1.53
1	5B	26	VAL	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5U	119	THR	N-CA	5.10	1.52	1.46
1	6i	64	ALA	N-CA	-5.10	1.39	1.46
1	6k	162	ARG	CD-NE	5.10	1.53	1.46
1	6n	218	CYS	CA-C	-5.10	1.46	1.52
1	6x	163	ASP	CA-C	-5.10	1.46	1.52
1	6H	147	PRO	N-CA	-5.10	1.44	1.47
1	6O	162	ARG	C-N	5.10	1.40	1.33
1	7c	25	LYS	C-N	-5.10	1.27	1.33
1	7f	92	GLU	C-N	-5.10	1.27	1.33
1	7L	34	PRO	C-N	-5.10	1.25	1.33
1	7M	196	PRO	N-CA	5.10	1.53	1.47
1	7T	215	MET	CA-CB	5.10	1.61	1.53
1	84	100	ARG	CD-NE	5.10	1.53	1.46
1	8g	135	ILE	CB-CG1	5.10	1.63	1.53
1	8h	109	SER	CA-CB	5.10	1.60	1.53
1	8W	127	GLY	CA-C	5.10	1.57	1.52
1	95	84	HIS	N-CA	-5.10	1.40	1.46
1	98	168	PHE	C-N	-5.10	1.26	1.34
1	9m	211	LEU	CA-CB	5.10	1.61	1.53
1	9o	141	ILE	N-CA	5.10	1.52	1.46
1	9s	152	ASP	CA-CB	5.10	1.60	1.53
1	9E	79	GLU	CA-CB	5.10	1.61	1.53
1	a2	82	ARG	CA-C	5.10	1.59	1.52
1	an	189	LEU	CA-C	-5.10	1.45	1.52
1	az	82	ARG	CA-C	-5.10	1.45	1.52
1	aX	18	ARG	CD-NE	5.10	1.53	1.46
1	b5	228	ALA	CA-CB	5.10	1.61	1.53
1	b8	76	GLU	CA-CB	5.10	1.61	1.53
1	18	171	THR	N-CA	-5.10	1.40	1.46
1	cN	230	VAL	N-CA	5.10	1.52	1.46
1	cU	60	GLY	CA-C	-5.10	1.44	1.51
1	de	152	ASP	CA-CB	5.10	1.61	1.53
1	1k	18	ARG	N-CA	5.10	1.52	1.46
1	1k	80	TRP	CA-C	5.10	1.59	1.52
1	dy	120	HIS	C-N	5.10	1.39	1.33
1	1m	75	GLU	CA-C	5.10	1.59	1.52
1	dO	228	ALA	N-CA	-5.10	1.39	1.45
1	dR	98	GLU	CA-CB	5.10	1.61	1.52
1	eg	172	LEU	CA-CB	5.10	1.62	1.53
1	em	135	ILE	C-N	5.10	1.40	1.33
1	eA	47	ALA	C-O	5.10	1.29	1.23
1	eT	45	GLU	CA-C	5.10	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eW	226	HIS	CG-ND1	5.10	1.43	1.38
1	f2	123	PRO	CA-C	-5.10	1.46	1.52
1	fg	51	ASP	N-CA	5.10	1.52	1.46
1	fr	95	GLN	CA-C	-5.10	1.46	1.52
1	fw	87	HIS	CB-CG	-5.10	1.43	1.50
1	fw	97	ARG	CD-NE	5.10	1.53	1.46
1	fA	84	HIS	CA-CB	5.10	1.59	1.53
1	fV	78	ALA	CA-C	-5.10	1.46	1.52
1	fW	207	PRO	N-CD	-5.10	1.40	1.47
1	g7	70	LYS	C-N	5.10	1.40	1.33
1	A	148	THR	CA-C	5.10	1.59	1.52
1	D	227	LYS	C-N	-5.10	1.26	1.33
1	H	149	SER	CA-CB	5.10	1.62	1.53
1	g8	65	ALA	N-CA	5.10	1.52	1.46
1	gb	120	HIS	CD2-NE2	5.10	1.43	1.37
1	gh	12	HIS	C-O	-5.10	1.17	1.24
1	gp	75	GLU	C-O	-5.10	1.18	1.24
1	gs	144	MET	CA-C	5.10	1.59	1.52
1	gy	215	MET	N-CA	-5.10	1.40	1.46
1	gB	29	GLU	N-CA	-5.10	1.39	1.46
1	gB	227	LYS	N-CA	-5.10	1.39	1.45
1	gK	163	ASP	C-N	5.10	1.40	1.33
1	gZ	190	LEU	C-O	5.10	1.29	1.24
1	h4	80	TRP	C-N	5.10	1.41	1.34
1	hd	227	LYS	CA-CB	5.10	1.61	1.53
1	1I	198	CYS	CA-C	-5.10	1.46	1.52
1	hl	58	THR	N-CA	-5.10	1.39	1.46
1	1J	67	GLN	CD-NE2	5.10	1.44	1.33
1	hO	47	ALA	C-N	5.10	1.40	1.33
1	hP	25	LYS	N-CA	-5.10	1.40	1.46
1	hT	40	PHE	N-CA	5.10	1.52	1.46
1	hT	174	ALA	CA-C	5.10	1.59	1.52
1	i8	96	MET	N-CA	5.10	1.52	1.46
1	i8	139	ASN	CA-CB	5.10	1.61	1.53
1	i9	212	GLU	C-O	5.10	1.30	1.24
1	ij	59	VAL	CA-C	5.10	1.59	1.52
1	it	23	TRP	N-CA	5.10	1.52	1.46
1	iB	103	ASP	C-N	5.10	1.39	1.34
1	iK	46	GLY	C-N	-5.10	1.26	1.33
1	j6	41	SER	CA-C	5.10	1.59	1.52
1	jc	147	PRO	CA-C	-5.10	1.47	1.53
1	jm	165	VAL	C-N	-5.10	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jS	84	HIS	CA-CB	5.10	1.60	1.53
1	jV	39	MET	N-CA	-5.10	1.39	1.46
1	jW	226	HIS	CD2-NE2	5.10	1.43	1.37
1	kj	98	GLU	CA-C	5.10	1.58	1.53
1	ks	101	GLY	N-CA	-5.10	1.39	1.45
1	kF	190	LEU	CA-C	-5.10	1.46	1.52
1	kI	156	GLY	C-O	-5.10	1.17	1.24
1	kY	145	TYR	CA-C	5.10	1.59	1.52
1	li	210	THR	CA-C	-5.10	1.46	1.53
1	lI	3	VAL	C-N	5.10	1.40	1.33
1	lK	224	PRO	C-N	-5.10	1.26	1.33
1	lQ	226	HIS	CA-C	-5.10	1.46	1.52
1	2b	12	HIS	CE1-NE2	5.10	1.37	1.32
1	2b	120	HIS	ND1-CE1	5.10	1.37	1.32
1	2m	12	HIS	CE1-NE2	5.10	1.37	1.32
1	2o	184	TRP	C-N	5.10	1.41	1.33
1	2w	44	SER	N-CA	-5.10	1.39	1.46
1	2B	69	LEU	C-N	5.10	1.40	1.33
1	2N	229	ARG	C-N	5.10	1.39	1.33
1	3l	51	ASP	CA-C	-5.10	1.46	1.52
1	3C	223	GLY	CA-C	5.10	1.59	1.51
1	3E	195	ASN	CA-C	5.10	1.58	1.53
1	3W	119	THR	CB-OG1	-5.10	1.35	1.43
1	43	181	VAL	CA-CB	5.10	1.61	1.54
1	43	228	ALA	N-CA	5.10	1.52	1.46
1	4n	133	TRP	NE1-CE2	5.10	1.43	1.37
1	4G	229	ARG	CA-CB	5.10	1.61	1.53
1	4V	217	ALA	CA-CB	-5.10	1.46	1.53
1	4X	18	ARG	CA-C	5.10	1.59	1.52
1	5f	21	ASN	C-N	5.10	1.40	1.33
1	5i	97	ARG	NE-CZ	5.10	1.38	1.33
1	5y	99	PRO	C-N	5.10	1.40	1.33
1	5E	39	MET	CA-CB	5.10	1.61	1.53
1	5I	7	GLN	CA-CB	5.10	1.61	1.53
1	60	184	TRP	CA-C	5.10	1.59	1.52
1	69	141	ILE	CA-CB	-5.10	1.48	1.54
1	6f	210	THR	C-N	5.10	1.40	1.33
1	6l	4	GLN	N-CA	-5.10	1.40	1.46
1	6y	120	HIS	C-N	5.10	1.39	1.33
1	6G	172	LEU	CA-CB	5.10	1.61	1.53
1	6I	208	ALA	CA-CB	5.10	1.62	1.53
1	76	124	ILE	CA-C	5.10	1.57	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7a	23	TRP	CZ2-CH2	5.10	1.47	1.37
1	7b	174	ALA	N-CA	5.10	1.52	1.46
1	9e	229	ARG	C-N	5.10	1.40	1.33
1	9w	165	VAL	CA-CB	-5.10	1.48	1.54
1	9x	185	MET	C-N	5.10	1.40	1.33
1	9L	113	GLU	CA-CB	5.10	1.61	1.53
1	9U	164	TYR	CA-C	-5.10	1.46	1.52
1	a2	215	MET	CG-SD	5.10	1.93	1.80
1	aa	29	GLU	C-N	5.10	1.41	1.33
1	ae	22	ALA	CA-CB	5.10	1.61	1.53
1	an	224	PRO	N-CA	-5.10	1.40	1.47
1	aC	197	ASP	C-N	5.10	1.41	1.34
1	aK	20	LEU	N-CA	5.10	1.52	1.46
1	aL	108	THR	C-N	5.10	1.40	1.33
1	14	117	TRP	CA-C	5.10	1.59	1.52
1	b6	75	GLU	N-CA	-5.10	1.39	1.46
1	bu	102	SER	CA-C	-5.10	1.45	1.52
1	bx	201	ILE	CA-C	-5.10	1.46	1.52
1	bz	139	ASN	CA-CB	5.10	1.61	1.53
1	bD	88	ALA	CA-C	5.10	1.59	1.52
1	cf	205	LEU	CA-CB	5.10	1.61	1.53
1	cq	15	ILE	C-O	-5.10	1.18	1.24
1	cG	208	ALA	CA-C	5.10	1.58	1.52
1	cR	135	ILE	CA-CB	-5.10	1.48	1.54
1	df	58	THR	C-N	5.10	1.38	1.33
1	dm	222	GLY	N-CA	5.10	1.52	1.45
1	ed	166	ASP	C-N	5.10	1.40	1.33
1	ej	97	ARG	CA-CB	5.10	1.61	1.53
1	el	62	HIS	CE1-NE2	5.10	1.37	1.32
1	em	84	HIS	CB-CG	5.10	1.57	1.50
1	es	159	GLU	C-O	-5.10	1.17	1.23
1	eu	41	SER	N-CA	5.10	1.52	1.46
1	1s	44	SER	CA-CB	5.10	1.61	1.53
1	eK	59	VAL	CA-C	5.10	1.58	1.52
1	eT	38	PRO	CA-CB	5.10	1.60	1.53
1	f1	104	ILE	CA-C	5.10	1.59	1.52
1	f8	196	PRO	CA-C	5.10	1.59	1.52
1	fd	21	ASN	CA-CB	5.10	1.61	1.53
1	fk	184	TRP	N-CA	-5.10	1.40	1.46
1	fr	144	MET	C-N	5.10	1.40	1.33
1	fs	104	ILE	C-N	5.10	1.41	1.33
1	1x	65	ALA	C-N	5.10	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fJ	50	GLN	N-CA	5.10	1.52	1.46
1	fJ	86	VAL	CA-C	5.10	1.58	1.52
1	fU	159	GLU	N-CA	5.10	1.52	1.45
1	fY	198	CYS	CA-C	-5.10	1.45	1.52
1	0	133	TRP	N-CA	5.10	1.52	1.46
1	l	163	ASP	CA-CB	5.10	1.61	1.53
1	K	75	GLU	N-CA	-5.10	1.40	1.46
1	P	184	TRP	CZ2-CH2	5.10	1.47	1.37
1	U	93	PRO	N-CA	-5.10	1.41	1.47
1	gh	51	ASP	N-CA	-5.10	1.40	1.46
1	gs	111	LEU	C-O	5.10	1.29	1.24
1	gA	142	VAL	N-CA	5.10	1.52	1.46
1	h2	1	PRO	C-N	5.10	1.39	1.33
1	1L	52	LEU	CA-C	-5.10	1.46	1.52
1	id	80	TRP	N-CA	5.10	1.52	1.46
1	ix	92	GLU	N-CA	5.10	1.52	1.46
1	iL	121	ASN	CA-CB	5.10	1.61	1.53
1	iM	89	GLY	C-N	5.10	1.40	1.33
1	ja	142	VAL	C-N	5.10	1.41	1.33
1	1V	15	ILE	C-N	5.10	1.41	1.33
1	21	11	VAL	N-CA	-5.10	1.40	1.46
1	29	215	MET	CA-CB	5.10	1.61	1.53
1	lR	70	LYS	N-CA	5.10	1.52	1.46
1	2e	205	LEU	CA-CB	5.10	1.61	1.53
1	2j	91	ILE	N-CA	-5.10	1.40	1.46
1	2w	95	GLN	CA-C	5.10	1.58	1.52
1	3g	168	PHE	CG-CD2	5.10	1.49	1.38
1	3o	18	ARG	C-N	5.10	1.40	1.33
1	3F	33	SER	N-CA	-5.10	1.39	1.46
1	3O	229	ARG	CD-NE	5.10	1.53	1.46
1	48	127	GLY	C-N	5.10	1.40	1.33
1	4i	43	LEU	CA-CB	5.10	1.61	1.53
1	51	171	THR	C-N	5.10	1.40	1.33
1	5y	79	GLU	CA-CB	5.10	1.61	1.53
1	5C	67	GLN	CA-CB	5.10	1.61	1.53
1	5M	111	LEU	CA-CB	5.10	1.61	1.53
1	6C	229	ARG	CA-C	-5.10	1.46	1.52
1	7e	202	LEU	CA-CB	5.10	1.61	1.53
1	8L	191	VAL	N-CA	5.10	1.52	1.46
1	8N	99	PRO	N-CD	-5.10	1.40	1.47
1	9y	88	ALA	CA-CB	5.10	1.62	1.53
1	9Z	47	ALA	N-CA	-5.10	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aW	5	ASN	CA-CB	5.10	1.62	1.53
1	aZ	29	GLU	N-CA	-5.10	1.39	1.46
1	b1	28	GLU	N-CA	5.10	1.52	1.46
1	17	184	TRP	CZ2-CH2	5.10	1.47	1.37
1	bi	151	LEU	N-CA	5.10	1.52	1.46
1	bo	84	HIS	ND1-CE1	5.10	1.37	1.32
1	bA	155	GLN	CA-CB	5.10	1.59	1.53
1	c9	80	TRP	CA-C	5.10	1.59	1.52
1	cR	21	ASN	CA-CB	5.10	1.61	1.53
1	dt	109	SER	C-N	5.10	1.40	1.33
1	ei	82	ARG	CD-NE	5.10	1.53	1.46
1	f6	132	ARG	NE-CZ	5.10	1.38	1.33
1	1A	63	GLN	C-N	5.10	1.40	1.33
1	g4	26	VAL	CA-C	5.10	1.59	1.52
1	F	37	ILE	CA-CB	-5.10	1.51	1.54
1	F	176	GLN	N-CA	5.10	1.54	1.46
1	T	21	ASN	CA-C	5.10	1.59	1.52
1	V	71	GLU	C-N	5.10	1.40	1.33
1	gA	143	ARG	CA-C	5.09	1.59	1.52
1	gD	124	ILE	N-CA	-5.09	1.40	1.46
1	gI	78	ALA	CA-C	-5.09	1.46	1.52
1	gX	64	ALA	CA-CB	5.09	1.61	1.53
1	h5	196	PRO	C-N	-5.09	1.27	1.33
1	hc	201	ILE	CA-CB	-5.09	1.48	1.54
1	iN	118	MET	CA-CB	5.09	1.61	1.53
1	iQ	31	ALA	CA-C	-5.09	1.46	1.53
1	iU	211	LEU	C-N	5.09	1.40	1.33
1	1T	180	GLU	CA-CB	5.09	1.61	1.53
1	j9	43	LEU	CB-CG	5.09	1.63	1.53
1	jj	64	ALA	CA-C	-5.09	1.46	1.52
1	js	211	LEU	CA-CB	5.09	1.61	1.53
1	jF	229	ARG	NE-CZ	5.09	1.38	1.33
1	jK	61	GLY	CA-C	-5.09	1.46	1.52
1	jP	71	GLU	CA-CB	5.09	1.61	1.53
1	1Z	70	LYS	CA-C	5.09	1.59	1.52
1	kq	54	THR	C-O	-5.09	1.18	1.24
1	23	53	ASN	CA-C	-5.09	1.46	1.52
1	kQ	101	GLY	CA-C	-5.09	1.46	1.52
1	lg	58	THR	C-N	5.09	1.39	1.33
1	ll	135	ILE	CB-CG1	5.09	1.63	1.53
1	lr	207	PRO	CA-C	-5.09	1.44	1.52
1	2a	87	HIS	CG-CD2	5.09	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lQ	17	PRO	N-CA	-5.09	1.40	1.47
1	2n	123	PRO	N-CA	5.09	1.52	1.46
1	2D	196	PRO	N-CD	5.09	1.54	1.47
1	2F	90	PRO	CA-CB	5.09	1.60	1.53
1	2L	44	SER	N-CA	-5.09	1.39	1.46
1	2Z	117	TRP	CA-CB	5.09	1.62	1.53
1	3e	111	LEU	CA-CB	5.09	1.62	1.53
1	3l	69	LEU	CA-CB	5.09	1.61	1.53
1	3x	141	ILE	N-CA	5.09	1.52	1.46
1	3A	7	GLN	N-CA	-5.09	1.39	1.46
1	3A	104	ILE	CA-CB	5.09	1.60	1.54
1	3P	165	VAL	CA-C	5.09	1.59	1.52
1	3V	184	TRP	N-CA	-5.09	1.40	1.46
1	3Z	96	MET	CA-C	5.09	1.59	1.52
1	44	217	ALA	C-O	-5.09	1.18	1.24
1	4i	138	LEU	C-O	-5.09	1.17	1.24
1	4I	57	ASN	C-N	5.09	1.40	1.33
1	4R	181	VAL	N-CA	5.09	1.52	1.46
1	4V	97	ARG	CA-CB	5.09	1.61	1.53
1	4X	204	ALA	C-O	5.09	1.29	1.24
1	5a	207	PRO	CA-C	5.09	1.58	1.52
1	5e	22	ALA	CA-C	5.09	1.59	1.52
1	5l	161	PHE	CA-C	-5.09	1.46	1.52
1	5m	19	THR	N-CA	5.09	1.52	1.46
1	5t	125	PRO	CA-CB	5.09	1.59	1.53
1	5v	12	HIS	CA-CB	5.09	1.62	1.53
1	5x	229	ARG	CA-CB	5.09	1.61	1.53
1	5z	112	GLN	C-N	5.09	1.40	1.33
1	5I	17	PRO	C-N	5.09	1.40	1.33
1	5J	117	TRP	CZ2-CH2	5.09	1.47	1.37
1	60	20	LEU	C-O	-5.09	1.18	1.24
1	65	136	LEU	C-N	5.09	1.40	1.33
1	66	72	THR	CA-C	-5.09	1.46	1.52
1	6b	5	ASN	CA-CB	5.09	1.62	1.53
1	6o	180	GLU	CA-C	5.09	1.59	1.52
1	6B	115	ILE	CA-C	-5.09	1.46	1.52
1	6D	52	LEU	CA-C	5.09	1.59	1.52
1	6G	102	SER	CA-C	5.09	1.59	1.52
1	6H	127	GLY	CA-C	-5.09	1.45	1.51
1	6P	57	ASN	C-N	5.09	1.41	1.33
1	6S	87	HIS	CG-CD2	5.09	1.41	1.35
1	74	87	HIS	CG-CD2	-5.09	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	78	78	ALA	CA-CB	5.09	1.61	1.53
1	7a	219	GLN	N-CA	-5.09	1.39	1.45
1	7f	154	ARG	C-O	5.09	1.30	1.23
1	7k	36	VAL	C-N	5.09	1.41	1.33
1	7q	219	GLN	CA-CB	5.09	1.61	1.53
1	7C	150	ILE	N-CA	5.09	1.52	1.46
1	7E	44	SER	CA-CB	5.09	1.61	1.53
1	7I	171	THR	C-N	5.09	1.40	1.33
1	7N	129	ILE	CA-CB	5.09	1.60	1.54
1	84	177	ALA	N-CA	-5.09	1.39	1.46
1	8d	50	GLN	C-N	5.09	1.40	1.33
1	8d	131	LYS	C-O	-5.09	1.18	1.24
1	8k	208	ALA	CA-CB	-5.09	1.46	1.53
1	8t	78	ALA	C-N	5.09	1.40	1.33
1	8t	224	PRO	C-N	5.09	1.39	1.33
1	8w	85	PRO	N-CD	5.09	1.54	1.47
1	8B	2	ILE	CA-C	-5.09	1.46	1.52
1	8D	145	TYR	CA-CB	5.09	1.62	1.53
1	8G	225	GLY	CA-C	-5.09	1.45	1.51
1	8N	68	MET	N-CA	5.09	1.52	1.46
1	8O	122	PRO	CA-C	5.09	1.63	1.52
1	8V	8	GLY	C-N	5.09	1.41	1.33
1	91	93	PRO	N-CA	5.09	1.53	1.47
1	95	127	GLY	C-N	5.09	1.40	1.33
1	9b	23	TRP	CA-CB	5.09	1.61	1.53
1	9k	132	ARG	CA-CB	5.09	1.61	1.53
1	9t	151	LEU	CA-CB	5.09	1.61	1.53
1	9B	71	GLU	C-N	5.09	1.40	1.33
1	9X	84	HIS	ND1-CE1	5.09	1.37	1.32
1	a0	201	ILE	C-O	-5.09	1.17	1.24
1	a1	3	VAL	CA-C	-5.09	1.46	1.52
1	aX	88	ALA	CA-C	-5.09	1.46	1.52
1	bk	148	THR	CA-C	-5.09	1.46	1.52
1	bt	1	PRO	N-CD	5.09	1.54	1.47
1	bv	129	ILE	C-N	5.09	1.40	1.34
1	bY	163	ASP	CA-C	5.09	1.59	1.52
1	c2	23	TRP	CA-CB	5.09	1.61	1.53
1	cb	29	GLU	CA-C	5.09	1.59	1.52
1	cd	111	LEU	CA-C	-5.09	1.46	1.52
1	cf	138	LEU	CA-C	5.09	1.59	1.52
1	cA	76	GLU	CA-CB	5.09	1.61	1.53
1	cF	39	MET	C-N	5.09	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cH	101	GLY	CA-C	-5.09	1.45	1.51
1	1g	1	PRO	C-N	5.09	1.41	1.33
1	cK	63	GLN	N-CA	-5.09	1.40	1.46
1	cM	56	LEU	CA-CB	5.09	1.61	1.53
1	cV	97	ARG	CD-NE	5.09	1.53	1.46
1	d5	186	THR	C-N	5.09	1.41	1.33
1	de	180	GLU	C-N	5.09	1.40	1.33
1	dj	69	LEU	CB-CG	5.09	1.63	1.53
1	du	178	SER	CA-C	5.09	1.59	1.52
1	dA	228	ALA	N-CA	5.09	1.52	1.46
1	dH	218	CYS	CA-CB	5.09	1.60	1.53
1	dZ	19	THR	CB-OG1	5.09	1.51	1.43
1	1o	83	LEU	CA-CB	5.09	1.61	1.53
1	e6	93	PRO	N-CD	-5.09	1.40	1.47
1	ec	102	SER	CA-CB	5.09	1.61	1.53
1	ee	84	HIS	CD2-NE2	5.09	1.43	1.37
1	eE	226	HIS	ND1-CE1	5.09	1.37	1.32
1	eI	116	GLY	CA-C	-5.09	1.46	1.52
1	1t	13	GLN	CA-CB	5.09	1.61	1.53
1	fc	127	GLY	N-CA	5.09	1.52	1.45
1	fe	49	PRO	CA-C	-5.09	1.44	1.52
1	fp	173	ARG	CZ-NH2	-5.09	1.26	1.33
1	fr	95	GLN	CA-CB	5.09	1.62	1.53
1	1x	132	ARG	CZ-NH2	-5.09	1.26	1.33
1	fu	62	HIS	ND1-CE1	5.09	1.37	1.32
1	fx	26	VAL	C-N	5.09	1.39	1.33
1	fI	209	ALA	CA-C	5.09	1.59	1.52
1	fR	104	ILE	C-N	5.09	1.41	1.33
1	fT	64	ALA	N-CA	-5.09	1.40	1.46
1	g1	104	ILE	CA-C	5.09	1.59	1.52
1	g2	50	GLN	C-O	-5.09	1.17	1.24
1	g2	160	PRO	CA-C	5.09	1.58	1.52
1	g5	150	ILE	CA-CB	-5.09	1.47	1.54
1	1B	21	ASN	C-N	5.09	1.40	1.33
1	d	22	ALA	CA-C	-5.09	1.45	1.52
1	y	62	HIS	CB-CG	5.09	1.57	1.50
1	B	72	THR	C-N	5.09	1.40	1.33
1	g9	43	LEU	CA-C	5.09	1.59	1.52
1	gg	34	PRO	C-N	5.09	1.41	1.33
1	gk	118	MET	C-N	5.09	1.40	1.33
1	gX	87	HIS	CE1-NE2	5.09	1.37	1.32
1	ha	161	PHE	N-CA	5.09	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hF	38	PRO	C-N	5.09	1.40	1.33
1	io	220	GLY	C-N	5.09	1.39	1.33
1	ir	158	LYS	CA-C	5.09	1.59	1.52
1	1T	41	SER	N-CA	5.09	1.52	1.46
1	jl	64	ALA	C-N	5.09	1.41	1.34
1	1V	91	ILE	CA-CB	-5.09	1.49	1.54
1	jN	8	GLY	C-N	5.09	1.40	1.33
1	k8	219	GLN	CA-C	5.09	1.59	1.52
1	ko	120	HIS	ND1-CE1	5.09	1.37	1.32
1	kt	54	THR	CA-C	5.09	1.59	1.52
1	ku	212	GLU	C-N	5.09	1.40	1.33
1	kY	190	LEU	N-CA	5.09	1.52	1.46
1	la	155	GLN	C-N	5.09	1.41	1.33
1	lf	110	THR	CA-CB	5.09	1.61	1.53
1	lF	173	ARG	C-N	5.09	1.40	1.33
1	lK	159	GLU	CA-CB	5.09	1.62	1.52
1	3f	211	LEU	C-N	5.09	1.40	1.33
1	3G	179	GLN	C-N	5.09	1.40	1.33
1	4b	40	PHE	N-CA	5.09	1.52	1.46
1	4e	154	ARG	C-N	5.09	1.40	1.33
1	4y	75	GLU	CA-C	5.09	1.59	1.52
1	4D	225	GLY	C-N	5.09	1.40	1.33
1	4E	47	ALA	N-CA	-5.09	1.39	1.46
1	4P	107	THR	CA-CB	5.09	1.61	1.53
1	4T	195	ASN	CA-C	5.09	1.58	1.53
1	5B	39	MET	CA-C	-5.09	1.46	1.52
1	6U	148	THR	N-CA	-5.09	1.40	1.46
1	7N	1	PRO	CA-CB	5.09	1.63	1.53
1	7P	224	PRO	CA-CB	-5.09	1.46	1.53
1	8x	81	ASP	CA-C	5.09	1.59	1.52
1	8A	132	ARG	CD-NE	5.09	1.53	1.46
1	8O	40	PHE	CA-CB	5.09	1.61	1.53
1	8P	98	GLU	CA-C	5.09	1.58	1.52
1	8R	216	THR	CA-CB	5.09	1.61	1.53
1	8S	224	PRO	CA-C	-5.09	1.44	1.52
1	8U	75	GLU	CA-C	5.09	1.59	1.52
1	8Z	230	VAL	C-N	5.09	1.40	1.33
1	97	100	ARG	CD-NE	5.09	1.53	1.46
1	9h	32	PHE	CA-C	5.09	1.59	1.52
1	9x	39	MET	C-N	5.09	1.40	1.33
1	9V	31	ALA	C-O	-5.09	1.17	1.24
1	Z	148	THR	CA-C	-5.09	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ac	154	ARG	C-N	5.09	1.40	1.33
1	aq	107	THR	CA-CB	-5.09	1.45	1.53
1	12	128	GLU	CA-C	5.09	1.59	1.52
1	b5	204	ALA	CA-C	-5.09	1.45	1.52
1	bH	105	ALA	CA-C	5.09	1.59	1.52
1	bR	41	SER	C-N	-5.09	1.27	1.33
1	c8	140	LYS	C-N	5.09	1.40	1.33
1	cj	90	PRO	C-N	5.09	1.41	1.33
1	cz	160	PRO	CA-CB	5.09	1.61	1.53
1	cH	101	GLY	N-CA	5.09	1.52	1.45
1	cO	99	PRO	N-CD	-5.09	1.40	1.47
1	cY	4	GLN	CA-CB	5.09	1.61	1.53
1	d3	99	PRO	CA-C	5.09	1.58	1.52
1	1i	74	ASN	CA-CB	5.09	1.61	1.53
1	dj	228	ALA	CA-CB	5.09	1.61	1.53
1	dK	176	GLN	C-N	5.09	1.40	1.33
1	e5	124	ILE	N-CA	-5.09	1.42	1.46
1	eW	72	THR	N-CA	-5.09	1.40	1.46
1	eX	39	MET	C-N	5.09	1.40	1.33
1	eY	165	VAL	N-CA	-5.09	1.40	1.46
1	ff	97	ARG	CA-CB	5.09	1.61	1.53
1	fC	186	THR	N-CA	5.09	1.52	1.46
1	fR	178	SER	CA-C	5.09	1.58	1.52
1	fY	101	GLY	CA-C	5.09	1.57	1.52
1	G	230	VAL	C-O	5.09	1.28	1.23
1	W	97	ARG	CA-C	-5.09	1.46	1.53
1	g9	111	LEU	N-CA	5.09	1.52	1.46
1	gt	104	ILE	C-N	5.09	1.41	1.33
1	gu	130	TYR	C-N	5.09	1.40	1.33
1	gy	50	GLN	C-O	-5.09	1.18	1.24
1	gy	62	HIS	CE1-NE2	5.09	1.37	1.32
1	gN	132	ARG	CA-C	5.09	1.59	1.52
1	gT	158	LYS	CA-C	5.09	1.59	1.52
1	ha	42	ALA	CA-CB	5.09	1.61	1.53
1	hb	18	ARG	C-N	5.09	1.40	1.34
1	hq	118	MET	C-N	5.09	1.40	1.33
1	hq	163	ASP	C-O	-5.09	1.18	1.24
1	hC	13	GLN	CA-C	-5.09	1.46	1.52
1	hG	154	ARG	CA-C	5.09	1.58	1.52
1	hP	120	HIS	CA-C	5.09	1.60	1.53
1	hR	119	THR	C-N	5.09	1.40	1.33
1	hV	109	SER	CA-CB	5.09	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i3	134	ILE	CA-C	-5.09	1.46	1.52
1	iv	80	TRP	NE1-CE2	5.09	1.43	1.37
1	iL	28	GLU	N-CA	5.09	1.52	1.46
1	iV	95	GLN	CA-CB	5.09	1.62	1.53
1	1T	86	VAL	CA-CB	-5.09	1.47	1.54
1	jz	198	CYS	C-N	5.09	1.40	1.33
1	jM	102	SER	N-CA	-5.09	1.39	1.46
1	jO	51	ASP	N-CA	-5.09	1.40	1.46
1	jV	97	ARG	CA-C	-5.09	1.46	1.52
1	jZ	140	LYS	C-N	5.09	1.39	1.34
1	k0	164	TYR	CA-CB	5.09	1.61	1.53
1	20	90	PRO	N-CD	-5.09	1.40	1.47
1	kf	130	TYR	CA-CB	5.09	1.61	1.53
1	ki	13	GLN	CA-C	-5.09	1.46	1.52
1	22	52	LEU	CA-C	-5.09	1.46	1.52
1	kT	164	TYR	CA-C	5.09	1.59	1.52
1	ld	167	ARG	CD-NE	5.09	1.53	1.46
1	ll	63	GLN	N-CA	5.09	1.52	1.46
1	2c	184	TRP	CA-C	-5.09	1.46	1.52
1	2k	67	GLN	N-CA	-5.09	1.40	1.46
1	2m	166	ASP	CA-CB	5.09	1.61	1.53
1	2q	124	ILE	CA-C	5.09	1.57	1.53
1	2A	65	ALA	C-N	5.09	1.40	1.34
1	2G	33	SER	CA-CB	5.09	1.60	1.53
1	2R	209	ALA	CA-C	-5.09	1.46	1.52
1	2Z	220	GLY	N-CA	-5.09	1.38	1.45
1	35	101	GLY	CA-C	5.09	1.58	1.52
1	3w	164	TYR	CA-CB	5.09	1.61	1.53
1	3x	172	LEU	N-CA	-5.09	1.39	1.46
1	47	36	VAL	C-N	5.09	1.41	1.33
1	48	12	HIS	CA-CB	5.09	1.61	1.53
1	4j	74	ASN	N-CA	-5.09	1.40	1.46
1	4H	158	LYS	CA-CB	5.09	1.62	1.53
1	4P	62	HIS	CA-CB	5.09	1.62	1.53
1	5F	34	PRO	CA-CB	5.09	1.61	1.53
1	5T	150	ILE	CA-C	-5.09	1.45	1.52
1	5U	38	PRO	N-CA	-5.09	1.41	1.47
1	5U	69	LEU	CA-C	5.09	1.59	1.52
1	5Y	82	ARG	CA-C	5.09	1.59	1.52
1	6a	62	HIS	N-CA	-5.09	1.38	1.46
1	6U	182	LYS	CA-CB	5.09	1.61	1.53
1	7h	153	ILE	CA-C	5.09	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7F	165	VAL	CA-C	5.09	1.59	1.52
1	7K	160	PRO	CA-CB	5.09	1.60	1.53
1	7M	127	GLY	N-CA	5.09	1.52	1.45
1	82	157	PRO	C-N	5.09	1.40	1.33
1	84	209	ALA	C-O	-5.09	1.17	1.23
1	87	80	TRP	CA-CB	5.09	1.61	1.53
1	8C	97	ARG	CD-NE	5.09	1.53	1.46
1	8P	54	THR	C-N	5.09	1.40	1.33
1	9f	23	TRP	C-N	5.09	1.40	1.33
1	9h	14	ALA	C-N	5.09	1.39	1.33
1	9n	141	ILE	CA-CB	-5.09	1.48	1.54
1	9o	218	CYS	N-CA	-5.09	1.39	1.46
1	9X	115	ILE	N-CA	-5.09	1.40	1.46
1	ag	179	GLN	C-O	-5.09	1.18	1.24
1	am	132	ARG	CA-CB	5.09	1.61	1.53
1	av	210	THR	N-CA	5.09	1.52	1.45
1	aw	75	GLU	N-CA	5.09	1.52	1.46
1	aw	151	LEU	C-N	5.09	1.41	1.33
1	aE	14	ALA	CA-C	-5.09	1.46	1.52
1	aG	196	PRO	N-CA	5.09	1.54	1.47
1	b5	37	ILE	CA-C	5.09	1.57	1.52
1	16	113	GLU	CA-CB	5.09	1.61	1.53
1	b9	162	ARG	CD-NE	5.09	1.53	1.46
1	by	30	LYS	C-O	-5.09	1.18	1.24
1	bI	231	LEU	C-OXT	5.09	1.33	1.23
1	bM	108	THR	CA-C	-5.09	1.46	1.52
1	bQ	226	HIS	CB-CG	5.09	1.57	1.50
1	c4	131	LYS	CA-CB	5.09	1.61	1.53
1	cc	146	SER	N-CA	-5.09	1.38	1.45
1	cl	211	LEU	CA-CB	5.09	1.61	1.53
1	1e	200	THR	N-CA	5.09	1.52	1.46
1	1f	170	LYS	N-CA	-5.09	1.40	1.46
1	cP	133	TRP	CA-C	5.09	1.59	1.52
1	cR	126	VAL	N-CA	-5.09	1.40	1.46
1	d4	94	GLY	N-CA	5.09	1.52	1.45
1	d9	132	ARG	CD-NE	5.09	1.53	1.46
1	d9	195	ASN	CA-CB	5.09	1.61	1.53
1	de	226	HIS	CA-CB	5.09	1.61	1.53
1	dx	28	GLU	C-N	-5.09	1.27	1.33
1	dx	105	ALA	CA-C	5.09	1.60	1.52
1	dD	143	ARG	CD-NE	5.09	1.53	1.46
1	dG	25	LYS	CA-CB	5.09	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1n	145	TYR	CA-CB	5.09	1.60	1.53
1	1n	166	ASP	C-N	5.09	1.40	1.33
1	e4	97	ARG	CZ-NH2	-5.09	1.26	1.33
1	el	28	GLU	CA-CB	5.09	1.61	1.53
1	en	33	SER	C-N	5.09	1.38	1.33
1	eA	20	LEU	CA-C	-5.09	1.46	1.52
1	eB	73	ILE	CA-C	5.09	1.59	1.52
1	eF	85	PRO	CA-CB	5.09	1.60	1.53
1	eG	212	GLU	CA-C	5.09	1.59	1.52
1	eO	27	VAL	CA-CB	-5.09	1.48	1.54
1	fd	171	THR	C-N	5.09	1.40	1.33
1	fl	188	THR	C-N	5.09	1.40	1.33
1	fu	71	GLU	CA-C	-5.09	1.46	1.52
1	fv	205	LEU	N-CA	-5.09	1.39	1.46
1	fz	204	ALA	CA-C	5.09	1.59	1.52
1	fB	133	TRP	N-CA	-5.09	1.40	1.46
1	fP	112	GLN	N-CA	-5.09	1.40	1.46
1	fU	76	GLU	N-CA	-5.09	1.40	1.46
1	g4	83	LEU	CA-C	-5.09	1.45	1.52
1	g6	200	THR	CA-C	-5.09	1.46	1.52
1	y	166	ASP	C-N	5.09	1.40	1.33
1	z	150	ILE	C-N	5.09	1.40	1.33
1	C	175	GLU	CA-C	-5.09	1.46	1.52
1	J	213	GLU	N-CA	5.09	1.52	1.46
1	L	229	ARG	N-CA	5.09	1.52	1.46
1	g9	208	ALA	C-N	5.09	1.40	1.33
1	gh	179	GLN	N-CA	5.09	1.52	1.46
1	gK	99	PRO	N-CA	-5.09	1.41	1.47
1	gV	3	VAL	CA-CB	-5.09	1.48	1.54
1	gX	172	LEU	CA-CB	5.09	1.61	1.53
1	h0	83	LEU	CA-C	-5.09	1.45	1.52
1	h1	132	ARG	C-N	5.09	1.40	1.33
1	hn	7	GLN	C-O	-5.09	1.17	1.24
1	hn	195	ASN	CA-CB	5.09	1.60	1.53
1	hz	212	GLU	C-N	5.09	1.40	1.33
1	hC	64	ALA	CA-CB	5.09	1.61	1.53
1	hC	97	ARG	CA-CB	5.09	1.61	1.53
1	i3	81	ASP	C-N	5.09	1.41	1.34
1	ia	34	PRO	N-CA	5.09	1.53	1.47
1	if	214	MET	C-O	5.09	1.30	1.24
1	in	125	PRO	N-CA	-5.09	1.43	1.47
1	ix	73	ILE	C-N	5.09	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iD	25	LYS	N-CA	5.09	1.52	1.46
1	1R	24	VAL	C-N	5.09	1.40	1.33
1	iO	65	ALA	N-CA	-5.09	1.40	1.46
1	iQ	86	VAL	CA-CB	5.09	1.60	1.53
1	1S	72	THR	C-N	5.09	1.40	1.33
1	jc	153	ILE	CA-CB	-5.09	1.48	1.54
1	jf	76	GLU	CA-C	5.09	1.59	1.52
1	jg	208	ALA	CA-C	-5.09	1.45	1.52
1	jO	69	LEU	N-CA	-5.09	1.40	1.46
1	jX	132	ARG	CA-CB	5.09	1.61	1.53
1	k9	180	GLU	C-N	5.09	1.40	1.33
1	kd	192	GLN	N-CA	5.09	1.52	1.46
1	kl	167	ARG	CD-NE	5.09	1.53	1.46
1	kq	161	PHE	C-O	-5.09	1.18	1.24
1	kH	179	GLN	C-N	5.09	1.41	1.34
1	kQ	80	TRP	C-O	-5.09	1.18	1.24
1	l4	6	LEU	CA-C	5.09	1.59	1.52
1	lj	132	ARG	CZ-NH2	-5.09	1.26	1.33
1	ll	192	GLN	CA-CB	5.09	1.61	1.53
1	lv	155	GLN	N-CA	5.09	1.52	1.46
1	29	166	ASP	CA-C	5.09	1.59	1.52
1	lD	222	GLY	C-O	-5.09	1.17	1.23
1	lH	214	MET	CA-C	-5.09	1.46	1.52
1	2C	165	VAL	C-N	5.09	1.40	1.33
1	2L	26	VAL	CA-C	5.09	1.59	1.52
1	2V	202	LEU	CA-C	-5.09	1.45	1.52
1	37	114	GLN	CA-CB	5.09	1.61	1.53
1	3v	103	ASP	C-N	5.09	1.40	1.33
1	3x	173	ARG	CA-C	5.09	1.59	1.52
1	3M	27	VAL	C-O	-5.09	1.18	1.24
1	3Q	174	ALA	CA-CB	5.09	1.61	1.53
1	3T	84	HIS	CG-ND1	5.09	1.43	1.38
1	3T	180	GLU	CA-CB	5.09	1.61	1.53
1	40	97	ARG	NE-CZ	-5.09	1.27	1.33
1	4S	9	GLN	C-N	5.09	1.40	1.33
1	4X	73	ILE	CA-C	5.09	1.59	1.52
1	51	207	PRO	CA-C	-5.09	1.47	1.52
1	52	192	GLN	N-CA	5.09	1.52	1.46
1	53	156	GLY	CA-C	5.09	1.59	1.51
1	5b	149	SER	N-CA	-5.09	1.39	1.46
1	5b	153	ILE	N-CA	5.09	1.52	1.46
1	5d	63	GLN	CA-C	-5.09	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5h	11	VAL	C-N	5.09	1.40	1.33
1	5h	133	TRP	CA-CB	5.09	1.61	1.53
1	5i	36	VAL	CA-C	5.09	1.59	1.52
1	5l	67	GLN	CA-CB	5.09	1.61	1.53
1	5l	99	PRO	CA-C	5.09	1.59	1.52
1	61	33	SER	C-N	5.09	1.40	1.33
1	6a	183	ASN	CA-C	5.09	1.59	1.52
1	6l	84	HIS	CG-CD2	5.09	1.41	1.35
1	6o	7	GLN	C-N	5.09	1.39	1.33
1	6x	197	ASP	CA-C	5.09	1.59	1.52
1	6H	219	GLN	C-N	5.09	1.40	1.33
1	6M	174	ALA	CA-C	5.09	1.59	1.52
1	6S	19	THR	C-N	-5.09	1.27	1.33
1	73	169	TYR	C-N	5.09	1.40	1.33
1	7a	96	MET	N-CA	-5.09	1.39	1.46
1	7Z	36	VAL	CA-C	-5.09	1.46	1.52
1	8m	155	GLN	CA-CB	5.09	1.59	1.52
1	8n	213	GLU	CD-OE1	5.09	1.35	1.25
1	8J	53	ASN	N-CA	5.09	1.52	1.46
1	8O	6	LEU	CA-CB	5.09	1.62	1.53
1	8S	112	GLN	CA-CB	5.09	1.61	1.53
1	91	211	LEU	CA-CB	5.09	1.62	1.53
1	9i	18	ARG	CA-C	5.09	1.59	1.52
1	9n	159	GLU	CA-C	5.09	1.59	1.52
1	9G	138	LEU	C-N	5.09	1.40	1.33
1	9I	188	THR	N-CA	-5.09	1.41	1.47
1	9L	81	ASP	CA-CB	5.09	1.61	1.53
1	9Q	115	ILE	CB-CG1	5.09	1.63	1.53
1	9S	224	PRO	CA-C	-5.09	1.44	1.52
1	10	105	ALA	C-N	5.09	1.41	1.33
1	ax	217	ALA	N-CA	5.09	1.52	1.45
1	14	199	LYS	C-N	5.09	1.41	1.33
1	aR	178	SER	CA-CB	5.09	1.62	1.53
1	aR	192	GLN	C-O	-5.09	1.17	1.24
1	aX	195	ASN	C-N	5.09	1.40	1.33
1	b2	126	VAL	N-CA	-5.09	1.40	1.46
1	b4	200	THR	N-CA	5.09	1.52	1.46
1	b6	229	ARG	N-CA	-5.09	1.39	1.46
1	b7	35	GLU	N-CA	5.09	1.52	1.46
1	bf	212	GLU	C-N	5.09	1.40	1.33
1	bu	166	ASP	CA-CB	5.09	1.61	1.53
1	19	124	ILE	CA-C	-5.09	1.49	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c0	15	ILE	CA-C	-5.09	1.44	1.52
1	cf	23	TRP	CA-CB	-5.09	1.45	1.53
1	1e	121	ASN	CA-C	-5.09	1.45	1.52
1	cw	39	MET	CA-CB	5.09	1.61	1.53
1	cw	86	VAL	CA-CB	5.09	1.60	1.54
1	cy	13	GLN	C-N	5.09	1.40	1.33
1	cG	124	ILE	CA-CB	-5.09	1.48	1.54
1	cP	50	GLN	CA-C	5.09	1.59	1.52
1	dB	51	ASP	CA-C	5.09	1.59	1.52
1	dP	128	GLU	CA-C	5.09	1.59	1.52
1	dP	177	ALA	CA-C	-5.09	1.46	1.52
1	dW	127	GLY	CA-C	-5.09	1.45	1.51
1	dY	164	TYR	CA-C	-5.09	1.46	1.52
1	dZ	74	ASN	N-CA	5.09	1.52	1.46
1	eE	165	VAL	CA-C	5.09	1.59	1.52
1	eS	51	ASP	N-CA	-5.09	1.40	1.46
1	eX	84	HIS	ND1-CE1	5.09	1.37	1.32
1	f9	230	VAL	CA-C	5.09	1.58	1.52
1	fe	202	LEU	C-N	5.09	1.40	1.33
1	1w	137	GLY	CA-C	5.09	1.57	1.52
1	fn	52	LEU	N-CA	-5.09	1.40	1.46
1	fy	20	LEU	N-CA	5.09	1.52	1.46
1	fG	151	LEU	CB-CG	5.09	1.63	1.53
1	fK	167	ARG	C-N	5.09	1.40	1.33
1	fN	167	ARG	CA-C	-5.09	1.46	1.52
1	fQ	190	LEU	C-N	5.09	1.40	1.33
1	h	32	PHE	CA-C	-5.09	1.46	1.53
1	h	126	VAL	N-CA	-5.09	1.40	1.46
1	i	18	ARG	CZ-NH2	-5.09	1.26	1.33
1	G	173	ARG	CD-NE	5.09	1.53	1.46
1	7	29	GLU	C-N	5.09	1.41	1.33
1	gr	167	ARG	CA-CB	5.09	1.61	1.53
1	h2	93	PRO	N-CA	-5.09	1.41	1.47
1	1I	59	VAL	N-CA	5.09	1.52	1.46
1	hC	103	ASP	C-N	5.09	1.40	1.33
1	hF	221	VAL	C-O	-5.09	1.18	1.23
1	hP	105	ALA	CA-C	5.09	1.59	1.52
1	iG	23	TRP	CZ2-CH2	5.09	1.47	1.37
1	jb	91	ILE	N-CA	5.09	1.52	1.46
1	ji	49	PRO	C-N	5.09	1.40	1.33
1	1V	26	VAL	C-O	5.09	1.30	1.24
1	jQ	23	TRP	CA-C	5.09	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kt	99	PRO	CA-C	5.09	1.59	1.52
1	kw	22	ALA	CA-C	5.09	1.59	1.52
1	ky	24	VAL	CA-C	5.09	1.59	1.52
1	kB	18	ARG	CA-C	5.09	1.59	1.52
1	lh	100	ARG	CD-NE	5.09	1.53	1.46
1	lF	33	SER	CA-C	-5.09	1.47	1.53
1	lM	9	GLN	CA-C	5.09	1.59	1.52
1	2g	193	ASN	N-CA	5.09	1.52	1.46
1	3l	90	PRO	CA-CB	5.09	1.60	1.53
1	3x	79	GLU	CA-C	-5.09	1.45	1.52
1	3D	62	HIS	N-CA	-5.09	1.38	1.46
1	3J	117	TRP	N-CA	-5.09	1.40	1.46
1	49	191	VAL	CA-CB	-5.09	1.47	1.54
1	4z	23	TRP	CA-C	5.09	1.59	1.52
1	4z	204	ALA	N-CA	-5.09	1.39	1.46
1	4O	12	HIS	C-N	5.09	1.41	1.33
1	59	191	VAL	N-CA	-5.09	1.39	1.46
1	5E	12	HIS	CA-CB	5.09	1.61	1.53
1	5Z	49	PRO	CA-C	-5.09	1.45	1.52
1	6v	84	HIS	CD2-NE2	5.09	1.43	1.37
1	6y	106	GLY	CA-C	5.09	1.58	1.51
1	6J	114	GLN	CD-NE2	5.09	1.44	1.33
1	7t	227	LYS	CA-CB	5.09	1.62	1.53
1	7v	56	LEU	CA-C	-5.09	1.46	1.52
1	7R	84	HIS	CG-ND1	-5.09	1.32	1.38
1	7Y	12	HIS	CB-CG	5.09	1.57	1.50
1	85	16	SER	CA-C	5.09	1.59	1.52
1	8k	163	ASP	CA-C	5.09	1.59	1.52
1	8n	154	ARG	CA-C	5.09	1.58	1.52
1	8x	154	ARG	CD-NE	5.09	1.53	1.46
1	8N	21	ASN	N-CA	-5.09	1.40	1.46
1	9g	30	LYS	N-CA	-5.09	1.40	1.46
1	9A	132	ARG	CZ-NH1	-5.09	1.25	1.32
1	9V	50	GLN	CA-C	5.09	1.59	1.52
1	a5	141	ILE	C-O	-5.09	1.18	1.24
1	at	38	PRO	N-CA	5.09	1.53	1.47
1	aA	87	HIS	CD2-NE2	-5.09	1.32	1.37
1	b4	144	MET	CA-C	5.09	1.59	1.52
1	bD	77	ALA	C-N	5.09	1.40	1.33
1	bG	208	ALA	C-N	5.09	1.40	1.33
1	bL	148	THR	N-CA	-5.09	1.39	1.45
1	bX	172	LEU	CA-CB	5.09	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c2	117	TRP	CA-C	5.09	1.59	1.52
1	cf	216	THR	N-CA	5.09	1.52	1.46
1	cm	137	GLY	C-N	-5.09	1.27	1.33
1	d3	12	HIS	C-O	-5.09	1.17	1.23
1	de	195	ASN	C-N	5.09	1.40	1.34
1	dg	112	GLN	CA-C	5.09	1.59	1.52
1	dv	184	TRP	NE1-CE2	-5.09	1.31	1.37
1	dC	52	LEU	CA-C	5.09	1.59	1.52
1	dU	2	ILE	N-CA	-5.09	1.40	1.46
1	e2	64	ALA	CA-C	5.09	1.59	1.52
1	el	146	SER	C-N	5.09	1.40	1.33
1	1r	188	THR	CA-C	5.09	1.59	1.52
1	ez	62	HIS	CD2-NE2	5.09	1.43	1.37
1	eX	205	LEU	CB-CG	5.09	1.63	1.53
1	fg	62	HIS	CB-CG	5.09	1.57	1.50
1	fz	75	GLU	N-CA	5.09	1.52	1.46
1	0	146	SER	CA-CB	5.09	1.61	1.53
1	j	72	THR	CA-C	5.09	1.59	1.52
1	k	74	ASN	C-N	5.09	1.40	1.33
1	S	37	ILE	N-CA	-5.09	1.40	1.46
1	1C	167	ARG	NE-CZ	5.09	1.38	1.33
1	gQ	125	PRO	N-CD	-5.09	1.40	1.47
1	h5	226	HIS	CA-C	5.09	1.59	1.52
1	ha	84	HIS	CD2-NE2	-5.09	1.32	1.37
1	hd	143	ARG	CD-NE	5.09	1.53	1.46
1	hi	16	SER	CA-CB	5.09	1.60	1.52
1	hN	18	ARG	CD-NE	5.09	1.53	1.46
1	hN	83	LEU	CA-CB	5.09	1.61	1.53
1	hO	220	GLY	CA-C	-5.09	1.44	1.51
1	hQ	88	ALA	C-N	5.09	1.41	1.33
1	hY	119	THR	C-N	5.09	1.40	1.33
1	hZ	26	VAL	CA-CB	-5.09	1.48	1.54
1	i6	225	GLY	C-N	5.09	1.40	1.33
1	i8	165	VAL	CA-C	5.09	1.59	1.52
1	ij	141	ILE	C-N	5.09	1.40	1.33
1	il	227	LYS	CA-C	5.09	1.59	1.52
1	in	132	ARG	CA-CB	5.09	1.61	1.53
1	iz	227	LYS	CA-C	-5.09	1.46	1.52
1	iB	13	GLN	C-N	5.09	1.40	1.33
1	j5	89	GLY	N-CA	5.09	1.50	1.43
1	k9	230	VAL	C-N	5.09	1.40	1.33
1	20	84	HIS	ND1-CE1	5.09	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kc	12	HIS	CG-CD2	-5.09	1.30	1.35
1	kr	158	LYS	C-N	5.09	1.42	1.33
1	kw	76	GLU	CA-CB	5.09	1.61	1.53
1	kS	41	SER	CA-C	-5.09	1.46	1.52
1	kS	180	GLU	CA-C	5.09	1.59	1.52
1	kV	181	VAL	CA-C	5.09	1.58	1.52
1	l8	114	GLN	C-N	5.09	1.40	1.33
1	ll	22	ALA	CA-CB	5.09	1.61	1.53
1	ln	84	HIS	ND1-CE1	-5.09	1.27	1.32
1	lp	101	GLY	C-O	-5.09	1.17	1.23
1	lp	118	MET	C-O	-5.09	1.18	1.24
1	lA	38	PRO	C-N	5.09	1.40	1.33
1	lB	184	TRP	C-N	5.09	1.40	1.33
1	2j	56	LEU	CA-CB	5.09	1.61	1.53
1	2t	122	PRO	N-CD	-5.09	1.40	1.47
1	2B	12	HIS	ND1-CE1	5.09	1.37	1.32
1	2H	66	MET	C-N	5.09	1.40	1.33
1	2X	172	LEU	N-CA	5.09	1.52	1.46
1	36	43	LEU	N-CA	-5.09	1.39	1.46
1	3h	147	PRO	N-CD	-5.09	1.40	1.47
1	3m	174	ALA	CA-C	5.09	1.59	1.52
1	3p	162	ARG	C-N	-5.09	1.27	1.33
1	3A	185	MET	N-CA	5.09	1.52	1.46
1	3D	107	THR	CA-CB	5.09	1.62	1.54
1	3O	60	GLY	C-O	5.09	1.29	1.23
1	3O	84	HIS	ND1-CE1	5.09	1.37	1.32
1	3X	209	ALA	N-CA	-5.09	1.39	1.46
1	4f	76	GLU	CA-C	5.09	1.59	1.52
1	4E	200	THR	N-CA	5.09	1.52	1.46
1	4H	23	TRP	CA-CB	5.09	1.61	1.53
1	4V	136	LEU	CA-CB	5.09	1.61	1.53
1	4W	95	GLN	CA-CB	5.09	1.61	1.53
1	50	141	ILE	C-N	-5.09	1.27	1.33
1	58	224	PRO	CA-C	5.09	1.59	1.52
1	5a	35	GLU	C-O	-5.09	1.18	1.24
1	5e	31	ALA	C-O	-5.09	1.17	1.24
1	5v	17	PRO	CA-C	5.09	1.59	1.52
1	5M	173	ARG	CD-NE	5.09	1.53	1.46
1	5N	166	ASP	C-N	5.09	1.40	1.33
1	5S	56	LEU	N-CA	5.09	1.52	1.46
1	6g	80	TRP	CZ2-CH2	5.09	1.47	1.37
1	6M	35	GLU	N-CA	5.09	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	70	153	ILE	C-N	5.09	1.40	1.33
1	74	184	TRP	CA-CB	5.09	1.61	1.53
1	7b	82	ARG	NE-CZ	-5.09	1.27	1.33
1	7p	197	ASP	C-O	-5.09	1.18	1.24
1	7v	176	GLN	CA-CB	5.09	1.62	1.53
1	7O	190	LEU	CA-CB	5.09	1.61	1.53
1	83	76	GLU	C-N	5.09	1.40	1.33
1	89	126	VAL	C-O	-5.09	1.18	1.24
1	8g	133	TRP	CZ2-CH2	5.09	1.47	1.37
1	8H	215	MET	C-O	-5.09	1.17	1.24
1	8V	120	HIS	CG-CD2	5.09	1.41	1.35
1	96	73	ILE	CA-CB	-5.09	1.48	1.54
1	9r	185	MET	N-CA	-5.09	1.40	1.46
1	9D	82	ARG	NE-CZ	5.09	1.38	1.33
1	9X	64	ALA	CA-C	-5.09	1.46	1.52
1	9Y	121	ASN	C-O	-5.09	1.21	1.25
1	a8	188	THR	CA-C	-5.09	1.46	1.52
1	ak	129	ILE	CA-CB	-5.09	1.48	1.54
1	at	39	MET	CA-CB	5.09	1.61	1.53
1	aA	59	VAL	CA-C	5.09	1.58	1.53
1	aE	120	HIS	C-N	5.09	1.39	1.33
1	aI	137	GLY	CA-C	-5.09	1.46	1.52
1	aK	101	GLY	C-N	-5.09	1.27	1.34
1	b3	196	PRO	N-CD	-5.09	1.40	1.47
1	bi	41	SER	CA-C	5.09	1.59	1.52
1	bl	32	PHE	CA-CB	5.09	1.60	1.53
1	bz	143	ARG	CD-NE	5.09	1.53	1.46
1	bZ	112	GLN	CA-C	-5.09	1.45	1.52
1	cM	5	ASN	CA-C	-5.09	1.46	1.52
1	cY	62	HIS	ND1-CE1	-5.09	1.27	1.32
1	cY	176	GLN	CA-C	5.09	1.59	1.52
1	d1	52	LEU	CB-CG	5.09	1.63	1.53
1	d3	84	HIS	CA-C	5.09	1.59	1.52
1	1i	228	ALA	N-CA	-5.09	1.40	1.46
1	d5	92	GLU	CA-CB	5.09	1.60	1.53
1	dd	51	ASP	CA-CB	5.09	1.61	1.53
1	dd	141	ILE	N-CA	5.09	1.52	1.46
1	1l	137	GLY	CA-C	5.09	1.57	1.51
1	dC	163	ASP	CA-CB	5.09	1.61	1.53
1	e2	71	GLU	N-CA	-5.09	1.40	1.46
1	ea	199	LYS	N-CA	-5.09	1.40	1.46
1	1s	104	ILE	C-O	5.09	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eO	6	LEU	CA-CB	5.09	1.60	1.54
1	eU	19	THR	CA-C	-5.09	1.46	1.52
1	fd	82	ARG	CA-C	5.09	1.59	1.52
1	ff	175	GLU	N-CA	5.09	1.52	1.46
1	fi	212	GLU	N-CA	5.09	1.52	1.46
1	fn	136	LEU	C-N	5.09	1.40	1.33
1	fH	229	ARG	CA-CB	5.09	1.62	1.53
1	fS	120	HIS	N-CA	-5.09	1.39	1.45
1	fX	71	GLU	C-N	5.09	1.40	1.33
1	k	68	MET	CA-CB	5.09	1.61	1.53
1	w	224	PRO	N-CD	-5.09	1.40	1.47
1	I	124	ILE	CA-C	5.09	1.57	1.53
1	R	54	THR	C-O	-5.09	1.18	1.24
1	V	183	ASN	C-O	-5.09	1.18	1.24
1	8	1	PRO	N-CA	5.09	1.54	1.47
1	ge	187	GLU	C-O	-5.08	1.18	1.24
1	gh	35	GLU	CA-CB	5.08	1.61	1.53
1	gG	96	MET	C-O	-5.08	1.17	1.23
1	gL	167	ARG	N-CA	5.08	1.52	1.46
1	gQ	148	THR	CA-C	-5.08	1.46	1.52
1	gT	100	ARG	CD-NE	5.08	1.53	1.46
1	hf	226	HIS	CG-ND1	5.08	1.43	1.38
1	hk	163	ASP	N-CA	-5.08	1.39	1.46
1	hq	82	ARG	C-N	5.08	1.40	1.33
1	hu	74	ASN	C-N	-5.08	1.26	1.34
1	hw	161	PHE	CA-CB	5.08	1.61	1.53
1	hP	173	ARG	N-CA	-5.08	1.39	1.46
1	hX	206	GLY	C-N	5.08	1.40	1.33
1	id	181	VAL	CA-CB	-5.08	1.48	1.54
1	iW	195	ASN	CA-C	-5.08	1.46	1.53
1	jg	50	GLN	N-CA	-5.08	1.40	1.46
1	k0	126	VAL	CA-CB	5.08	1.61	1.54
1	k5	64	ALA	C-O	-5.08	1.18	1.24
1	k9	22	ALA	C-N	5.08	1.40	1.33
1	ka	78	ALA	N-CA	-5.08	1.40	1.46
1	kx	230	VAL	C-N	5.08	1.40	1.33
1	ly	70	LYS	CA-CB	5.08	1.61	1.53
1	lA	204	ALA	C-O	-5.08	1.17	1.24
1	2d	142	VAL	CA-CB	-5.08	1.48	1.54
1	2h	132	ARG	CA-CB	5.08	1.61	1.53
1	2l	180	GLU	N-CA	-5.08	1.40	1.46
1	2n	2	ILE	CA-C	-5.08	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2u	182	LYS	CA-CB	5.08	1.61	1.53
1	2v	38	PRO	C-N	5.08	1.40	1.33
1	2T	21	ASN	CA-CB	5.08	1.61	1.53
1	3q	126	VAL	C-O	-5.08	1.18	1.24
1	3E	200	THR	CA-CB	5.08	1.61	1.53
1	4m	100	ARG	CD-NE	5.08	1.53	1.46
1	5d	211	LEU	N-CA	-5.08	1.40	1.46
1	5F	40	PHE	C-N	5.08	1.40	1.33
1	5M	119	THR	CB-OG1	-5.08	1.35	1.43
1	5V	73	ILE	N-CA	5.08	1.52	1.46
1	63	97	ARG	CD-NE	5.08	1.53	1.46
1	63	112	GLN	CA-CB	5.08	1.61	1.53
1	6g	14	ALA	N-CA	5.08	1.52	1.46
1	6l	109	SER	N-CA	5.08	1.52	1.46
1	6D	178	SER	C-O	-5.08	1.17	1.24
1	76	88	ALA	CA-CB	-5.08	1.46	1.53
1	7p	74	ASN	N-CA	5.08	1.52	1.46
1	7S	85	PRO	C-N	5.08	1.39	1.33
1	8S	186	THR	CA-CB	5.08	1.61	1.53
1	9g	13	GLN	N-CA	-5.08	1.39	1.45
1	9o	66	MET	C-N	5.08	1.40	1.33
1	9o	197	ASP	CA-CB	5.08	1.61	1.53
1	9D	192	GLN	CA-CB	5.08	1.61	1.53
1	9J	227	LYS	C-O	-5.08	1.18	1.24
1	9U	49	PRO	C-N	5.08	1.40	1.33
1	as	177	ALA	N-CA	5.08	1.52	1.46
1	aw	6	LEU	C-N	5.08	1.40	1.33
1	b5	163	ASP	C-N	5.08	1.40	1.33
1	bg	52	LEU	CA-C	5.08	1.59	1.52
1	bh	144	MET	CA-C	-5.08	1.46	1.52
1	bn	222	GLY	N-CA	5.08	1.51	1.45
1	bx	229	ARG	NE-CZ	5.08	1.38	1.33
1	1a	229	ARG	CD-NE	5.08	1.53	1.46
1	cO	172	LEU	CA-CB	5.08	1.61	1.53
1	db	43	LEU	N-CA	-5.08	1.40	1.46
1	dm	114	GLN	CA-C	-5.08	1.46	1.52
1	dp	128	GLU	CA-CB	5.08	1.61	1.53
1	dG	191	VAL	CA-C	5.08	1.59	1.52
1	dK	175	GLU	C-N	5.08	1.40	1.33
1	dQ	99	PRO	C-N	5.08	1.41	1.33
1	e5	97	ARG	CD-NE	5.08	1.53	1.46
1	ea	166	ASP	C-O	5.08	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eT	171	THR	C-O	-5.08	1.17	1.24
1	1z	110	THR	C-N	5.08	1.40	1.33
1	0	196	PRO	C-N	5.08	1.40	1.33
1	g	135	ILE	CB-CG1	5.08	1.63	1.53
1	w	150	ILE	C-N	5.08	1.40	1.33
1	x	95	GLN	CA-CB	5.08	1.60	1.53
1	G	111	LEU	CA-C	5.08	1.59	1.52
1	g9	218	CYS	CA-C	-5.08	1.46	1.52
1	ga	102	SER	CA-C	-5.08	1.45	1.52
1	gr	177	ALA	CA-CB	5.08	1.61	1.53
1	gB	88	ALA	CA-C	5.08	1.59	1.52
1	gZ	98	GLU	CA-C	5.08	1.59	1.53
1	hn	64	ALA	N-CA	-5.08	1.40	1.46
1	hs	155	GLN	C-N	5.08	1.41	1.33
1	ht	53	ASN	CA-CB	5.08	1.61	1.53
1	hy	138	LEU	C-N	5.08	1.40	1.34
1	hF	149	SER	N-CA	-5.08	1.39	1.46
1	hN	62	HIS	CD2-NE2	5.08	1.43	1.37
1	hP	137	GLY	C-N	5.08	1.40	1.33
1	hU	18	ARG	CD-NE	5.08	1.53	1.46
1	hY	30	LYS	C-N	5.08	1.40	1.33
1	i1	117	TRP	CA-C	5.08	1.59	1.52
1	1N	11	VAL	CA-CB	-5.08	1.47	1.55
1	i6	140	LYS	C-N	5.08	1.40	1.33
1	i9	115	ILE	CA-CB	5.08	1.60	1.54
1	ij	23	TRP	CA-CB	5.08	1.61	1.53
1	ip	40	PHE	CA-C	5.08	1.59	1.52
1	it	21	ASN	CA-C	-5.08	1.46	1.52
1	iy	193	ASN	CA-CB	5.08	1.62	1.53
1	iO	49	PRO	N-CA	-5.08	1.40	1.47
1	1S	222	GLY	N-CA	5.08	1.52	1.45
1	iS	20	LEU	C-N	5.08	1.40	1.33
1	jd	1	PRO	N-CA	5.08	1.54	1.47
1	jf	187	GLU	C-N	5.08	1.40	1.33
1	ji	212	GLU	CA-C	-5.08	1.46	1.52
1	jp	13	GLN	N-CA	-5.08	1.39	1.46
1	jJ	28	GLU	CA-CB	5.08	1.61	1.53
1	jL	161	PHE	CA-C	5.08	1.59	1.52
1	kq	128	GLU	CA-C	5.08	1.59	1.52
1	kB	23	TRP	NE1-CE2	5.08	1.43	1.37
1	25	23	TRP	CA-CB	5.08	1.61	1.53
1	25	45	GLU	C-N	5.08	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	27	31	ALA	CA-CB	-5.08	1.45	1.53
1	27	180	GLU	CA-C	-5.08	1.46	1.52
1	ly	93	PRO	CA-C	5.08	1.58	1.52
1	lB	140	LYS	CA-C	5.08	1.59	1.52
1	lC	109	SER	N-CA	5.08	1.52	1.46
1	lH	178	SER	N-CA	5.08	1.52	1.45
1	lJ	119	THR	CB-OG1	-5.08	1.35	1.43
1	2a	173	ARG	C-O	-5.08	1.18	1.24
1	lO	35	GLU	CA-C	-5.08	1.45	1.52
1	2g	91	ILE	C-N	5.08	1.40	1.33
1	2x	75	GLU	N-CA	-5.08	1.40	1.46
1	2P	104	ILE	C-O	-5.08	1.18	1.24
1	2T	184	TRP	CA-CB	5.08	1.61	1.53
1	35	87	HIS	ND1-CE1	5.08	1.37	1.32
1	36	98	GLU	CA-C	5.08	1.58	1.53
1	3j	157	PRO	N-CD	-5.08	1.40	1.47
1	3n	33	SER	N-CA	-5.08	1.39	1.45
1	3v	167	ARG	N-CA	5.08	1.52	1.46
1	3S	1	PRO	C-N	5.08	1.41	1.33
1	41	173	ARG	CD-NE	5.08	1.53	1.46
1	43	127	GLY	N-CA	5.08	1.52	1.45
1	4h	173	ARG	C-N	5.08	1.40	1.33
1	4i	55	MET	CA-CB	5.08	1.61	1.53
1	4k	37	ILE	N-CA	-5.08	1.40	1.46
1	4s	49	PRO	CA-CB	5.08	1.60	1.53
1	4w	62	HIS	CD2-NE2	-5.08	1.32	1.37
1	4C	188	THR	C-O	-5.08	1.17	1.24
1	56	142	VAL	N-CA	-5.08	1.40	1.46
1	5b	203	LYS	C-N	5.08	1.41	1.33
1	5l	89	GLY	N-CA	5.08	1.51	1.44
1	5r	84	HIS	CA-CB	-5.08	1.46	1.53
1	5s	57	ASN	CA-CB	5.08	1.61	1.53
1	6w	145	TYR	N-CA	-5.08	1.39	1.46
1	6H	126	VAL	N-CA	-5.08	1.40	1.46
1	6U	162	ARG	CD-NE	5.08	1.53	1.46
1	6V	62	HIS	C-O	-5.08	1.17	1.23
1	75	90	PRO	N-CA	5.08	1.53	1.47
1	7d	43	LEU	N-CA	-5.08	1.39	1.46
1	7d	184	TRP	CA-C	5.08	1.59	1.52
1	7u	54	THR	CA-C	-5.08	1.46	1.52
1	7I	170	LYS	C-O	-5.08	1.18	1.24
1	8i	43	LEU	C-N	5.08	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8i	76	GLU	N-CA	-5.08	1.40	1.46
1	8m	140	LYS	C-O	-5.08	1.17	1.24
1	8r	78	ALA	N-CA	5.08	1.52	1.46
1	8J	2	ILE	CA-C	5.08	1.59	1.52
1	8Q	16	SER	CA-C	-5.08	1.46	1.52
1	92	184	TRP	CA-CB	5.08	1.61	1.53
1	9c	135	ILE	CA-CB	-5.08	1.48	1.54
1	9l	74	ASN	C-N	5.08	1.40	1.33
1	9n	230	VAL	C-O	5.08	1.30	1.24
1	9q	151	LEU	CA-CB	5.08	1.62	1.53
1	9V	31	ALA	N-CA	5.08	1.52	1.46
1	a2	156	GLY	N-CA	5.08	1.51	1.44
1	a8	91	ILE	CA-C	5.08	1.58	1.52
1	ak	9	GLN	C-N	5.08	1.40	1.33
1	ak	128	GLU	C-N	5.08	1.40	1.33
1	al	215	MET	CA-CB	5.08	1.62	1.53
1	bm	124	ILE	N-CA	-5.08	1.40	1.46
1	bt	185	MET	CA-CB	5.08	1.61	1.53
1	bw	81	ASP	CA-C	5.08	1.59	1.52
1	bJ	197	ASP	CA-CB	5.08	1.62	1.53
1	bL	42	ALA	C-O	-5.08	1.18	1.24
1	bS	126	VAL	N-CA	5.08	1.52	1.46
1	bT	18	ARG	N-CA	5.08	1.52	1.46
1	bW	178	SER	N-CA	5.08	1.52	1.46
1	cb	110	THR	CA-C	5.08	1.60	1.53
1	cd	140	LYS	N-CA	5.08	1.52	1.46
1	cC	206	GLY	C-N	-5.08	1.27	1.33
1	cT	128	GLU	C-N	5.08	1.40	1.33
1	cZ	71	GLU	CA-C	-5.08	1.46	1.52
1	d3	58	THR	CA-C	-5.08	1.46	1.52
1	d8	64	ALA	C-N	5.08	1.40	1.33
1	dd	206	GLY	C-N	5.08	1.40	1.33
1	1j	2	ILE	N-CA	5.08	1.52	1.46
1	dm	166	ASP	N-CA	-5.08	1.40	1.46
1	dr	112	GLN	N-CA	-5.08	1.39	1.46
1	ds	158	LYS	CA-CB	5.08	1.60	1.53
1	dB	172	LEU	CA-CB	5.08	1.61	1.53
1	dH	33	SER	N-CA	-5.08	1.41	1.46
1	dK	103	ASP	CA-C	5.08	1.59	1.52
1	dN	199	LYS	CA-C	5.08	1.59	1.52
1	e8	86	VAL	C-O	-5.08	1.18	1.24
1	ew	30	LYS	CA-C	-5.08	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eE	103	ASP	CA-C	-5.08	1.46	1.52
1	eN	87	HIS	ND1-CE1	5.08	1.37	1.32
1	eO	10	MET	C-O	-5.08	1.17	1.23
1	1t	226	HIS	CA-CB	5.08	1.61	1.53
1	fb	27	VAL	C-O	-5.08	1.18	1.24
1	fg	62	HIS	C-N	5.08	1.40	1.33
1	fI	43	LEU	CA-CB	5.08	1.62	1.53
1	fX	103	ASP	CA-C	-5.08	1.45	1.52
1	0	120	HIS	CA-C	-5.08	1.46	1.53
1	h	222	GLY	N-CA	5.08	1.54	1.45
1	n	120	HIS	ND1-CE1	5.08	1.37	1.32
1	L	126	VAL	CA-CB	5.08	1.61	1.54
1	O	179	GLN	CA-CB	5.08	1.61	1.53
1	S	197	ASP	N-CA	-5.08	1.40	1.46
1	gc	62	HIS	CA-C	5.08	1.60	1.53
1	gg	226	HIS	ND1-CE1	5.08	1.37	1.32
1	gA	211	LEU	C-N	5.08	1.40	1.33
1	gH	167	ARG	CD-NE	5.08	1.53	1.46
1	gO	144	MET	CA-C	5.08	1.59	1.52
1	h7	86	VAL	CA-C	5.08	1.59	1.52
1	1I	160	PRO	CA-CB	5.08	1.60	1.53
1	hu	180	GLU	CA-C	5.08	1.59	1.52
1	hA	203	LYS	CA-C	5.08	1.59	1.52
1	hI	132	ARG	CD-NE	5.08	1.53	1.46
1	hQ	182	LYS	CA-C	-5.08	1.46	1.52
1	i9	74	ASN	N-CA	-5.08	1.39	1.46
1	id	108	THR	C-N	5.08	1.40	1.33
1	iu	31	ALA	C-O	-5.08	1.19	1.24
1	iD	162	ARG	CA-CB	5.08	1.61	1.53
1	iF	119	THR	C-N	5.08	1.40	1.33
1	iM	40	PHE	CA-CB	5.08	1.61	1.53
1	iU	173	ARG	C-N	5.08	1.40	1.33
1	jl	172	LEU	CA-C	5.08	1.59	1.52
1	jH	108	THR	N-CA	-5.08	1.39	1.46
1	jQ	207	PRO	C-N	5.08	1.40	1.33
1	kl	88	ALA	CA-C	5.08	1.58	1.52
1	kq	180	GLU	N-CA	-5.08	1.40	1.46
1	kt	168	PHE	CA-C	5.08	1.59	1.52
1	ku	1	PRO	C-N	5.08	1.39	1.33
1	kJ	2	ILE	N-CA	-5.08	1.40	1.46
1	kY	118	MET	CA-C	-5.08	1.45	1.52
1	lm	226	HIS	ND1-CE1	5.08	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ln	49	PRO	CA-CB	-5.08	1.46	1.53
1	28	165	VAL	CA-CB	-5.08	1.48	1.54
1	lN	46	GLY	N-CA	5.08	1.52	1.45
1	2f	80	TRP	N-CA	-5.08	1.40	1.46
1	2z	90	PRO	C-N	-5.08	1.28	1.33
1	2Q	210	THR	N-CA	-5.08	1.39	1.45
1	3c	99	PRO	CA-CB	5.08	1.60	1.53
1	3E	125	PRO	CA-CB	5.08	1.59	1.53
1	3F	33	SER	CA-CB	5.08	1.61	1.54
1	3R	20	LEU	C-N	5.08	1.40	1.33
1	3Z	5	ASN	CA-CB	5.08	1.60	1.53
1	4c	124	ILE	CA-CB	-5.08	1.49	1.54
1	4k	62	HIS	CE1-NE2	5.08	1.37	1.32
1	4n	6	LEU	CA-CB	5.08	1.61	1.53
1	4G	101	GLY	CA-C	-5.08	1.46	1.51
1	4I	96	MET	CA-CB	5.08	1.61	1.53
1	4M	171	THR	C-N	5.08	1.40	1.33
1	56	59	VAL	C-N	5.08	1.39	1.33
1	5a	155	GLN	CA-CB	5.08	1.61	1.53
1	5f	2	ILE	CA-C	5.08	1.59	1.52
1	5m	55	MET	CA-C	-5.08	1.46	1.52
1	5u	17	PRO	CA-C	-5.08	1.43	1.52
1	5B	98	GLU	CA-C	5.08	1.59	1.53
1	5H	220	GLY	C-O	5.08	1.29	1.24
1	5O	120	HIS	C-N	5.08	1.39	1.33
1	5X	20	LEU	C-O	-5.08	1.17	1.24
1	61	55	MET	CA-C	5.08	1.59	1.52
1	6e	148	THR	CA-C	5.08	1.59	1.52
1	6n	93	PRO	N-CD	5.08	1.54	1.47
1	6n	194	ALA	CA-C	5.08	1.59	1.53
1	6t	30	LYS	CA-CB	5.08	1.61	1.53
1	6O	5	ASN	CG-ND2	5.08	1.44	1.33
1	6W	161	PHE	C-N	5.08	1.40	1.33
1	7h	17	PRO	N-CD	-5.08	1.40	1.47
1	7i	102	SER	CA-C	-5.08	1.46	1.52
1	7p	67	GLN	CA-CB	5.08	1.61	1.53
1	7w	1	PRO	CA-CB	5.08	1.63	1.53
1	7L	145	TYR	CA-CB	5.08	1.60	1.53
1	8f	100	ARG	CA-C	5.08	1.60	1.53
1	8A	214	MET	CA-CB	5.08	1.61	1.53
1	8K	20	LEU	CA-C	5.08	1.59	1.52
1	99	59	VAL	C-N	5.08	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9b	17	PRO	N-CA	-5.08	1.40	1.47
1	9j	4	GLN	CA-CB	5.08	1.62	1.53
1	9R	115	ILE	C-N	5.08	1.40	1.33
1	9V	82	ARG	CD-NE	5.08	1.53	1.46
1	av	161	PHE	C-N	5.08	1.40	1.33
1	aG	87	HIS	C-N	5.08	1.40	1.33
1	aP	121	ASN	C-O	-5.08	1.19	1.24
1	aW	213	GLU	CA-CB	5.08	1.61	1.53
1	b2	175	GLU	N-CA	-5.08	1.39	1.46
1	b6	166	ASP	N-CA	5.08	1.52	1.46
1	18	138	LEU	N-CA	5.08	1.52	1.46
1	bJ	153	ILE	CA-CB	5.08	1.61	1.54
1	c5	66	MET	CA-CB	5.08	1.61	1.53
1	c5	147	PRO	N-CA	-5.08	1.40	1.47
1	co	125	PRO	CA-C	-5.08	1.48	1.53
1	cp	131	LYS	CA-C	-5.08	1.46	1.52
1	cu	187	GLU	C-N	5.08	1.40	1.33
1	cF	133	TRP	CA-C	5.08	1.59	1.52
1	cG	68	MET	N-CA	5.08	1.52	1.46
1	cL	108	THR	C-O	-5.08	1.17	1.24
1	cZ	52	LEU	CA-C	5.08	1.59	1.52
1	d7	134	ILE	C-O	5.08	1.30	1.24
1	df	167	ARG	C-N	5.08	1.40	1.33
1	1k	82	ARG	CZ-NH1	-5.08	1.25	1.32
1	dy	29	GLU	N-CA	-5.08	1.39	1.46
1	dO	9	GLN	C-N	5.08	1.40	1.33
1	1n	113	GLU	CA-C	-5.08	1.46	1.52
1	e3	143	ARG	NE-CZ	-5.08	1.27	1.33
1	e5	216	THR	CB-OG1	-5.08	1.35	1.43
1	e6	15	ILE	CB-CG1	5.08	1.63	1.53
1	ec	42	ALA	C-O	5.08	1.29	1.24
1	ei	15	ILE	CA-C	5.08	1.58	1.52
1	eq	229	ARG	N-CA	5.08	1.52	1.46
1	ev	139	ASN	CA-CB	5.08	1.61	1.53
1	eI	5	ASN	N-CA	5.08	1.52	1.46
1	eL	9	GLN	CA-CB	5.08	1.61	1.53
1	f0	230	VAL	C-N	5.08	1.40	1.33
1	fb	135	ILE	CA-CB	5.08	1.60	1.54
1	1w	82	ARG	CD-NE	5.08	1.53	1.46
1	fA	65	ALA	N-CA	-5.08	1.40	1.46
1	fG	108	THR	C-O	-5.08	1.17	1.24
1	fK	197	ASP	CA-CB	5.08	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fN	132	ARG	CD-NE	5.08	1.53	1.46
1	g1	186	THR	CA-C	5.08	1.59	1.52
1	g2	145	TYR	N-CA	-5.08	1.40	1.46
1	g4	224	PRO	CA-C	5.08	1.57	1.53
1	h	123	PRO	CA-C	-5.08	1.46	1.52
1	u	168	PHE	C-N	5.08	1.40	1.33
1	R	76	GLU	CA-CB	5.08	1.61	1.53
1	X	157	PRO	CA-CB	5.08	1.60	1.53
1	7	12	HIS	C-O	5.08	1.30	1.24
1	gd	149	SER	CA-C	-5.08	1.46	1.53
1	gQ	149	SER	CA-CB	5.08	1.61	1.53
1	gV	157	PRO	C-N	5.08	1.40	1.33
1	h1	5	ASN	C-N	5.08	1.40	1.33
1	hl	207	PRO	N-CD	-5.08	1.40	1.47
1	hu	5	ASN	CA-CB	5.08	1.61	1.53
1	hJ	184	TRP	CD2-CE3	-5.08	1.32	1.40
1	1N	204	ALA	CA-C	5.08	1.59	1.52
1	ip	85	PRO	CA-CB	5.08	1.60	1.53
1	is	217	ALA	CA-CB	5.08	1.61	1.53
1	iU	156	GLY	N-CA	5.08	1.51	1.44
1	j2	26	VAL	C-O	-5.08	1.18	1.24
1	jh	138	LEU	CA-C	5.08	1.59	1.52
1	jr	138	LEU	CA-CB	5.08	1.61	1.53
1	jI	199	LYS	CA-CB	5.08	1.61	1.53
1	jO	18	ARG	N-CA	-5.08	1.39	1.46
1	kv	39	MET	CA-C	-5.08	1.46	1.52
1	26	74	ASN	CA-CB	5.08	1.61	1.53
1	ld	41	SER	C-N	5.08	1.40	1.34
1	ld	143	ARG	C-O	5.08	1.29	1.24
1	lh	163	ASP	CA-CB	5.08	1.61	1.53
1	lj	185	MET	CA-C	5.08	1.59	1.52
1	ll	136	LEU	C-N	5.08	1.40	1.33
1	ly	164	TYR	C-N	5.08	1.40	1.33
1	lF	12	HIS	CG-CD2	-5.08	1.30	1.35
1	2K	178	SER	CA-C	-5.08	1.46	1.52
1	36	27	VAL	C-N	5.08	1.40	1.33
1	36	188	THR	N-CA	-5.08	1.41	1.46
1	45	54	THR	N-CA	-5.08	1.40	1.46
1	47	64	ALA	CA-C	5.08	1.59	1.52
1	4Q	185	MET	CA-CB	5.08	1.61	1.53
1	4T	145	TYR	CA-CB	5.08	1.60	1.53
1	52	43	LEU	C-O	5.08	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5a	169	TYR	C-O	-5.08	1.17	1.24
1	5b	147	PRO	C-N	5.08	1.39	1.33
1	5r	210	THR	N-CA	5.08	1.52	1.45
1	5y	18	ARG	N-CA	5.08	1.52	1.46
1	5E	201	ILE	CA-CB	-5.08	1.47	1.54
1	63	21	ASN	N-CA	5.08	1.52	1.46
1	6r	91	ILE	C-N	5.08	1.40	1.33
1	6y	80	TRP	C-N	5.08	1.40	1.33
1	6U	175	GLU	N-CA	-5.08	1.39	1.46
1	70	34	PRO	N-CD	5.08	1.54	1.47
1	7a	41	SER	CA-C	5.08	1.59	1.52
1	7d	145	TYR	CZ-OH	5.08	1.48	1.38
1	7o	229	ARG	CD-NE	5.08	1.53	1.46
1	7B	7	GLN	C-N	5.08	1.39	1.33
1	7B	67	GLN	CA-CB	5.08	1.61	1.53
1	7T	23	TRP	NE1-CE2	5.08	1.43	1.37
1	86	80	TRP	CZ2-CH2	5.08	1.47	1.37
1	8y	200	THR	C-N	5.08	1.40	1.33
1	8H	64	ALA	C-O	-5.08	1.18	1.24
1	8L	220	GLY	CA-C	-5.08	1.47	1.52
1	9t	207	PRO	N-CD	5.08	1.54	1.47
1	9U	74	ASN	C-N	5.08	1.40	1.33
1	9X	168	PHE	C-N	5.08	1.40	1.33
1	a9	117	TRP	N-CA	5.08	1.52	1.46
1	aE	70	LYS	C-N	5.08	1.40	1.33
1	aR	167	ARG	N-CA	5.08	1.52	1.46
1	aT	87	HIS	CG-ND1	5.08	1.43	1.38
1	b2	177	ALA	CA-C	-5.08	1.46	1.52
1	bG	38	PRO	C-N	5.08	1.40	1.33
1	ce	69	LEU	N-CA	5.08	1.52	1.46
1	ci	67	GLN	CA-CB	5.08	1.61	1.53
1	cp	180	GLU	C-N	5.08	1.40	1.33
1	ct	124	ILE	CA-C	-5.08	1.48	1.52
1	cA	33	SER	N-CA	-5.08	1.41	1.45
1	cD	126	VAL	CA-CB	5.08	1.60	1.54
1	cS	47	ALA	N-CA	-5.08	1.39	1.46
1	dq	12	HIS	ND1-CE1	5.08	1.37	1.32
1	dx	109	SER	CA-CB	5.08	1.62	1.53
1	dK	148	THR	CA-C	5.08	1.58	1.52
1	er	81	ASP	CA-C	5.08	1.59	1.52
1	eI	54	THR	C-O	-5.08	1.18	1.24
1	fg	84	HIS	CD2-NE2	5.08	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fq	116	GLY	C-O	5.08	1.29	1.23
1	ft	196	PRO	N-CD	5.08	1.54	1.47
1	fI	67	GLN	CA-CB	5.08	1.61	1.53
1	fQ	82	ARG	CD-NE	5.08	1.53	1.46
1	0	202	LEU	N-CA	-5.08	1.39	1.46
1	d	173	ARG	CD-NE	5.08	1.53	1.46
1	z	96	MET	CA-C	5.08	1.59	1.52
1	V	115	ILE	C-N	5.08	1.40	1.34
1	gU	14	ALA	CA-C	5.08	1.59	1.52
1	h0	143	ARG	CA-C	-5.08	1.46	1.52
1	h1	118	MET	CA-CB	5.08	1.62	1.53
1	hl	120	HIS	C-N	5.08	1.44	1.33
1	hr	140	LYS	CA-C	5.08	1.59	1.52
1	hs	32	PHE	CA-C	-5.08	1.44	1.52
1	hw	147	PRO	C-O	-5.08	1.18	1.24
1	hy	185	MET	C-N	5.08	1.40	1.33
1	hH	122	PRO	C-N	-5.08	1.27	1.33
1	ia	162	ARG	CZ-NH1	-5.08	1.25	1.32
1	in	183	ASN	C-N	5.08	1.40	1.33
1	ix	87	HIS	CG-ND1	5.08	1.43	1.38
1	ix	112	GLN	C-N	5.08	1.40	1.33
1	iF	82	ARG	CA-CB	5.08	1.61	1.53
1	iM	227	LYS	CA-C	5.08	1.59	1.52
1	iR	124	ILE	CA-C	5.08	1.58	1.52
1	j9	174	ALA	CA-CB	5.08	1.61	1.53
1	ja	137	GLY	C-N	5.08	1.40	1.33
1	je	40	PHE	N-CA	-5.08	1.40	1.46
1	jk	115	ILE	CA-CB	-5.08	1.48	1.54
1	jk	189	LEU	C-O	5.08	1.30	1.24
1	jv	48	THR	N-CA	-5.08	1.38	1.45
1	jv	205	LEU	CA-CB	5.08	1.61	1.53
1	1X	93	PRO	N-CD	-5.08	1.40	1.47
1	jK	127	GLY	C-O	-5.08	1.17	1.23
1	jM	143	ARG	CD-NE	5.08	1.53	1.46
1	jO	141	ILE	C-O	-5.08	1.18	1.24
1	k9	215	MET	CA-C	5.08	1.59	1.52
1	ka	88	ALA	N-CA	-5.08	1.40	1.46
1	kb	16	SER	CA-CB	5.08	1.60	1.53
1	21	52	LEU	N-CA	-5.08	1.40	1.46
1	kk	123	PRO	C-N	5.08	1.39	1.33
1	kk	203	LYS	C-O	-5.08	1.18	1.24
1	23	65	ALA	C-O	5.08	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kF	145	TYR	C-N	5.08	1.41	1.33
1	l8	84	HIS	ND1-CE1	5.08	1.37	1.32
1	ln	69	LEU	C-N	5.08	1.41	1.34
1	29	113	GLU	C-N	5.08	1.40	1.33
1	lE	9	GLN	N-CA	-5.08	1.39	1.46
1	2g	22	ALA	CA-CB	5.08	1.61	1.53
1	2W	189	LEU	N-CA	5.08	1.52	1.46
1	3l	22	ALA	N-CA	-5.08	1.40	1.46
1	3p	215	MET	N-CA	-5.08	1.40	1.46
1	3y	15	ILE	CA-C	5.08	1.58	1.52
1	3C	120	HIS	CD2-NE2	5.08	1.43	1.37
1	3F	43	LEU	CA-C	5.08	1.59	1.52
1	3K	12	HIS	ND1-CE1	5.08	1.37	1.32
1	3L	147	PRO	N-CD	-5.08	1.40	1.47
1	3X	115	ILE	CA-C	-5.08	1.46	1.52
1	3Z	113	GLU	C-N	5.08	1.40	1.33
1	4q	84	HIS	CD2-NE2	5.08	1.43	1.37
1	4r	88	ALA	N-CA	5.08	1.52	1.46
1	4E	123	PRO	CA-CB	5.08	1.60	1.53
1	4F	21	ASN	N-CA	-5.08	1.40	1.46
1	4O	97	ARG	N-CA	5.08	1.52	1.46
1	4O	172	LEU	CA-C	-5.08	1.46	1.52
1	55	191	VAL	C-O	5.08	1.29	1.24
1	56	130	TYR	C-N	5.08	1.40	1.33
1	5r	59	VAL	N-CA	5.08	1.52	1.46
1	5B	14	ALA	N-CA	-5.08	1.39	1.46
1	5E	16	SER	CA-CB	5.08	1.61	1.52
1	5G	31	ALA	N-CA	-5.08	1.40	1.46
1	5R	77	ALA	CA-C	5.08	1.59	1.52
1	64	13	GLN	C-N	5.08	1.40	1.33
1	6x	97	ARG	CZ-NH2	-5.08	1.26	1.33
1	6M	11	VAL	C-N	-5.08	1.26	1.33
1	6W	184	TRP	CA-CB	5.08	1.61	1.53
1	7o	103	ASP	CA-C	5.08	1.59	1.52
1	7q	168	PHE	N-CA	-5.08	1.40	1.46
1	7w	227	LYS	N-CA	5.08	1.54	1.46
1	7A	73	ILE	CB-CG1	5.08	1.63	1.53
1	7O	191	VAL	C-O	-5.08	1.18	1.24
1	82	126	VAL	N-CA	-5.08	1.40	1.46
1	8q	112	GLN	N-CA	-5.08	1.39	1.46
1	8u	127	GLY	N-CA	-5.08	1.39	1.45
1	8J	218	CYS	CA-C	-5.08	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8L	93	PRO	C-N	5.08	1.41	1.33
1	8M	55	MET	CA-CB	5.08	1.61	1.53
1	8N	92	GLU	CA-C	5.08	1.58	1.53
1	9a	229	ARG	CZ-NH2	-5.08	1.26	1.33
1	9y	209	ALA	CA-CB	5.08	1.62	1.53
1	9D	167	ARG	CA-CB	5.08	1.61	1.53
1	9H	5	ASN	N-CA	-5.08	1.39	1.46
1	9I	26	VAL	CA-C	-5.08	1.46	1.52
1	9P	221	VAL	CA-C	-5.08	1.47	1.52
1	9S	149	SER	CA-C	5.08	1.58	1.52
1	9Y	41	SER	CA-CB	5.08	1.61	1.53
1	Z	8	GLY	C-N	5.08	1.40	1.33
1	a5	152	ASP	CA-C	-5.08	1.46	1.52
1	aj	158	LYS	N-CA	5.08	1.52	1.46
1	11	63	GLN	N-CA	5.08	1.52	1.46
1	aA	163	ASP	CA-C	-5.08	1.45	1.52
1	15	130	TYR	CA-CB	5.08	1.61	1.53
1	b1	189	LEU	C-N	5.08	1.40	1.33
1	17	78	ALA	CA-C	5.08	1.59	1.52
1	bw	78	ALA	CA-C	-5.08	1.46	1.52
1	bH	160	PRO	CA-CB	-5.08	1.47	1.53
1	bX	103	ASP	CA-C	-5.08	1.46	1.52
1	c2	10	MET	C-N	5.08	1.40	1.33
1	c6	3	VAL	CA-C	5.08	1.59	1.52
1	c8	61	GLY	N-CA	5.08	1.51	1.45
1	ci	202	LEU	C-N	5.08	1.41	1.34
1	cm	221	VAL	N-CA	-5.08	1.40	1.46
1	cu	209	ALA	C-N	5.08	1.40	1.33
1	cH	201	ILE	C-O	-5.08	1.18	1.24
1	d0	119	THR	CA-C	-5.08	1.46	1.52
1	d5	181	VAL	CA-C	5.08	1.59	1.52
1	dc	67	GLN	CA-C	5.08	1.59	1.52
1	dd	59	VAL	N-CA	5.08	1.52	1.46
1	do	82	ARG	C-N	5.08	1.41	1.33
1	e0	185	MET	CA-C	-5.08	1.46	1.52
1	e2	12	HIS	CB-CG	5.08	1.57	1.50
1	em	3	VAL	CA-CB	-5.08	1.46	1.54
1	eu	203	LYS	N-CA	-5.08	1.39	1.46
1	eZ	59	VAL	CA-CB	-5.08	1.48	1.54
1	fb	63	GLN	N-CA	-5.08	1.40	1.46
1	fl	2	ILE	N-CA	-5.08	1.40	1.46
1	fl	125	PRO	N-CA	5.08	1.54	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fr	45	GLU	CA-CB	5.08	1.61	1.53
1	fu	58	THR	CA-C	5.08	1.59	1.52
1	fx	137	GLY	CA-C	5.08	1.57	1.52
1	fy	13	GLN	C-N	5.08	1.40	1.33
1	fz	196	PRO	C-N	5.08	1.40	1.33
1	1y	164	TYR	CA-C	5.08	1.59	1.52
1	fE	20	LEU	CA-CB	-5.08	1.45	1.53
1	fH	123	PRO	CA-C	-5.08	1.46	1.52
1	1B	220	GLY	N-CA	5.08	1.52	1.45
1	i	193	ASN	C-N	5.08	1.40	1.33
1	j	137	GLY	N-CA	-5.08	1.38	1.45
1	k	97	ARG	NE-CZ	-5.08	1.27	1.33
1	k	132	ARG	CA-C	5.08	1.59	1.52
1	gh	32	PHE	N-CA	5.08	1.52	1.46
1	1F	4	GLN	N-CA	-5.08	1.39	1.46
1	hE	81	ASP	CA-CB	5.08	1.61	1.53
1	hI	215	MET	CA-C	-5.08	1.45	1.52
1	ij	225	GLY	CA-C	-5.08	1.44	1.51
1	in	150	ILE	CA-C	5.08	1.60	1.52
1	iw	53	ASN	CA-CB	5.08	1.61	1.53
1	j3	30	LYS	CA-CB	5.08	1.61	1.54
1	j8	132	ARG	CD-NE	5.08	1.53	1.46
1	ja	52	LEU	CA-CB	-5.08	1.45	1.53
1	jc	99	PRO	N-CD	5.08	1.54	1.47
1	jg	13	GLN	CA-C	-5.08	1.46	1.52
1	k6	229	ARG	CD-NE	5.08	1.53	1.46
1	lj	10	MET	C-N	5.08	1.40	1.33
1	lC	93	PRO	CA-C	-5.08	1.46	1.52
1	lD	43	LEU	CA-CB	5.08	1.62	1.53
1	2x	173	ARG	NE-CZ	5.08	1.38	1.33
1	3j	126	VAL	CA-CB	-5.08	1.47	1.54
1	3u	93	PRO	CA-C	-5.08	1.45	1.52
1	3A	13	GLN	N-CA	5.08	1.52	1.46
1	3F	176	GLN	C-N	5.08	1.40	1.33
1	3J	87	HIS	CA-CB	5.08	1.60	1.53
1	4Z	11	VAL	CA-C	5.08	1.58	1.52
1	53	228	ALA	N-CA	5.08	1.52	1.46
1	5b	68	MET	CA-CB	5.08	1.61	1.53
1	5l	89	GLY	C-N	-5.08	1.26	1.33
1	69	72	THR	N-CA	-5.08	1.40	1.46
1	6j	173	ARG	CA-C	-5.08	1.46	1.52
1	7m	198	CYS	CA-C	-5.08	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7M	148	THR	C-N	5.08	1.40	1.33
1	7N	13	GLN	N-CA	-5.08	1.40	1.46
1	7V	204	ALA	CA-C	5.08	1.59	1.52
1	82	42	ALA	CA-CB	5.08	1.61	1.53
1	8p	132	ARG	NE-CZ	5.08	1.38	1.33
1	8t	19	THR	CA-CB	5.08	1.62	1.53
1	8O	173	ARG	NE-CZ	5.08	1.38	1.33
1	8S	209	ALA	N-CA	5.08	1.52	1.46
1	9j	115	ILE	N-CA	5.08	1.52	1.46
1	9l	136	LEU	CA-C	-5.08	1.46	1.52
1	9v	205	LEU	CA-CB	5.08	1.61	1.53
1	9w	124	ILE	CA-C	5.08	1.58	1.52
1	9Z	185	MET	CA-CB	5.08	1.61	1.53
1	b1	19	THR	C-O	-5.08	1.17	1.24
1	bb	66	MET	C-N	5.08	1.40	1.33
1	bg	50	GLN	N-CA	-5.08	1.40	1.46
1	bk	114	GLN	N-CA	5.08	1.52	1.46
1	bx	120	HIS	CG-ND1	5.08	1.43	1.38
1	cq	226	HIS	CA-CB	5.08	1.61	1.53
1	cs	80	TRP	N-CA	5.08	1.52	1.46
1	cK	62	HIS	CG-CD2	5.08	1.41	1.35
1	d2	93	PRO	N-CD	-5.08	1.40	1.47
1	db	77	ALA	N-CA	-5.08	1.40	1.46
1	dY	23	TRP	CA-CB	5.08	1.61	1.53
1	ev	142	VAL	CA-CB	-5.08	1.47	1.54
1	eM	41	SER	C-N	5.08	1.40	1.33
1	1t	67	GLN	C-N	5.08	1.40	1.33
1	1v	95	GLN	C-N	5.08	1.40	1.33
1	fo	172	LEU	N-CA	5.08	1.52	1.46
1	fO	31	ALA	N-CA	-5.08	1.40	1.46
1	1B	120	HIS	CA-C	5.08	1.59	1.52
1	gb	132	ARG	CA-C	5.08	1.59	1.52
1	gg	48	THR	CA-C	5.08	1.59	1.52
1	gj	154	ARG	CD-NE	5.08	1.53	1.46
1	gk	23	TRP	CA-C	5.08	1.59	1.52
1	gu	186	THR	N-CA	5.08	1.52	1.46
1	gu	224	PRO	CA-C	-5.08	1.46	1.52
1	h3	125	PRO	C-N	5.08	1.40	1.33
1	h5	57	ASN	CA-C	5.08	1.59	1.52
1	hi	150	ILE	CA-C	5.08	1.59	1.52
1	hl	23	TRP	N-CA	-5.08	1.40	1.46
1	hu	2	ILE	CA-C	-5.08	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1K	143	ARG	CA-C	5.08	1.59	1.52
1	hH	6	LEU	CA-C	-5.08	1.46	1.52
1	hK	134	ILE	C-O	-5.08	1.18	1.24
1	hL	91	ILE	CA-CB	-5.08	1.48	1.54
1	hM	226	HIS	CA-CB	5.08	1.61	1.53
1	hZ	87	HIS	C-O	-5.08	1.17	1.23
1	i0	169	TYR	CA-C	-5.08	1.46	1.52
1	1N	3	VAL	CA-CB	5.08	1.61	1.53
1	i9	92	GLU	CA-C	5.08	1.58	1.53
1	ib	155	GLN	C-N	5.08	1.41	1.33
1	io	102	SER	CA-C	-5.08	1.46	1.52
1	iv	64	ALA	C-N	5.08	1.40	1.33
1	iI	115	ILE	N-CA	5.08	1.52	1.46
1	1S	33	SER	CA-C	5.08	1.57	1.52
1	j5	27	VAL	CA-C	5.08	1.59	1.52
1	j5	228	ALA	CA-CB	5.08	1.61	1.53
1	jj	146	SER	CA-C	5.08	1.58	1.53
1	jr	120	HIS	CB-CG	5.08	1.57	1.50
1	jG	80	TRP	CZ2-CH2	5.08	1.46	1.37
1	jH	73	ILE	CA-C	-5.08	1.46	1.52
1	jL	206	GLY	C-N	-5.08	1.27	1.34
1	jY	27	VAL	CA-CB	-5.08	1.48	1.54
1	k3	21	ASN	CA-C	5.08	1.59	1.52
1	ks	218	CYS	C-O	-5.08	1.17	1.24
1	ku	133	TRP	C-N	5.08	1.40	1.33
1	23	18	ARG	CD-NE	5.08	1.53	1.46
1	kK	92	GLU	C-O	-5.08	1.17	1.24
1	kV	125	PRO	CA-C	5.08	1.57	1.53
1	ld	143	ARG	C-N	5.08	1.40	1.33
1	27	87	HIS	CE1-NE2	-5.08	1.27	1.32
1	lj	55	MET	CA-C	-5.08	1.46	1.52
1	29	119	THR	N-CA	5.08	1.52	1.46
1	lF	31	ALA	C-N	5.08	1.40	1.33
1	lK	115	ILE	CA-CB	-5.08	1.48	1.54
1	lL	107	THR	C-O	-5.08	1.18	1.24
1	2a	226	HIS	CE1-NE2	5.08	1.37	1.32
1	lM	123	PRO	CA-CB	5.08	1.60	1.53
1	lP	35	GLU	C-N	5.08	1.40	1.33
1	lP	183	ASN	CA-C	-5.08	1.46	1.52
1	2i	26	VAL	N-CA	5.08	1.52	1.46
1	2n	16	SER	C-N	5.08	1.39	1.34
1	2n	185	MET	N-CA	-5.08	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2z	26	VAL	CA-C	5.08	1.59	1.52
1	2z	163	ASP	CA-C	-5.08	1.46	1.52
1	2N	76	GLU	N-CA	-5.08	1.40	1.46
1	2S	1	PRO	N-CA	5.08	1.54	1.47
1	30	179	GLN	N-CA	5.08	1.52	1.46
1	3g	124	ILE	CA-CB	-5.08	1.48	1.54
1	3n	167	ARG	CZ-NH2	-5.08	1.26	1.33
1	3u	27	VAL	CA-CB	-5.08	1.47	1.54
1	3x	149	SER	N-CA	-5.08	1.39	1.45
1	3K	91	ILE	C-O	-5.08	1.18	1.24
1	46	229	ARG	CD-NE	5.08	1.53	1.46
1	4d	116	GLY	N-CA	5.08	1.52	1.45
1	4j	146	SER	C-N	5.08	1.39	1.34
1	4p	38	PRO	N-CD	5.08	1.54	1.47
1	4y	1	PRO	N-CD	5.08	1.54	1.47
1	5d	191	VAL	C-N	-5.08	1.27	1.33
1	5m	164	TYR	C-N	5.08	1.40	1.33
1	5w	84	HIS	N-CA	5.08	1.53	1.45
1	5G	97	ARG	CD-NE	5.08	1.53	1.46
1	6h	12	HIS	C-N	5.08	1.41	1.33
1	6j	221	VAL	C-N	5.08	1.41	1.33
1	6o	184	TRP	N-CA	5.08	1.52	1.46
1	6M	23	TRP	CA-C	-5.08	1.46	1.52
1	6O	93	PRO	CA-C	-5.08	1.45	1.52
1	6U	28	GLU	CA-CB	5.08	1.62	1.53
1	72	78	ALA	N-CA	5.08	1.52	1.46
1	7b	18	ARG	N-CA	5.08	1.52	1.46
1	7h	87	HIS	CB-CG	5.08	1.57	1.50
1	7o	70	LYS	N-CA	-5.08	1.40	1.46
1	7x	66	MET	CA-C	-5.08	1.46	1.52
1	7A	80	TRP	N-CA	5.08	1.52	1.46
1	7N	178	SER	CA-CB	5.08	1.61	1.53
1	7U	135	ILE	CA-CB	5.08	1.60	1.54
1	8c	143	ARG	CD-NE	5.08	1.53	1.46
1	8e	100	ARG	CD-NE	5.08	1.53	1.46
1	8l	1	PRO	N-CA	5.08	1.54	1.47
1	8n	168	PHE	CA-C	5.08	1.59	1.52
1	8o	164	TYR	CZ-OH	5.08	1.48	1.38
1	8I	45	GLU	C-N	5.08	1.39	1.33
1	8U	197	ASP	C-N	5.08	1.40	1.33
1	9c	26	VAL	CA-C	5.08	1.59	1.52
1	9e	16	SER	CA-C	5.08	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9g	199	LYS	CA-C	5.08	1.59	1.52
1	9s	100	ARG	CA-CB	5.08	1.62	1.54
1	9z	184	TRP	CA-CB	5.08	1.61	1.53
1	9A	37	ILE	CA-C	5.08	1.58	1.52
1	Y	30	LYS	CA-C	5.08	1.59	1.52
1	Z	204	ALA	C-O	5.08	1.30	1.24
1	aj	203	LYS	N-CA	5.08	1.52	1.46
1	bh	2	ILE	CA-C	5.08	1.58	1.52
1	bt	180	GLU	CA-CB	5.08	1.61	1.53
1	bC	94	GLY	CA-C	5.08	1.58	1.51
1	bR	204	ALA	C-N	5.08	1.41	1.33
1	1b	156	GLY	N-CA	5.08	1.51	1.44
1	c8	18	ARG	C-N	5.08	1.40	1.33
1	ck	146	SER	N-CA	-5.08	1.38	1.46
1	cp	161	PHE	C-N	5.08	1.40	1.33
1	cB	107	THR	CA-C	5.08	1.59	1.52
1	cH	206	GLY	C-N	5.08	1.40	1.34
1	cM	37	ILE	CA-CB	5.08	1.57	1.54
1	cQ	175	GLU	N-CA	-5.08	1.39	1.46
1	cR	97	ARG	CD-NE	5.08	1.53	1.46
1	cT	123	PRO	C-N	5.08	1.39	1.33
1	1h	146	SER	N-CA	5.08	1.52	1.45
1	d1	138	LEU	C-N	5.08	1.40	1.33
1	d1	141	ILE	CA-C	-5.08	1.46	1.52
1	df	208	ALA	CA-CB	5.08	1.61	1.53
1	do	80	TRP	CA-CB	5.08	1.61	1.53
1	dN	175	GLU	CA-C	5.08	1.59	1.52
1	dP	83	LEU	CA-C	5.08	1.59	1.52
1	dQ	58	THR	C-O	-5.08	1.17	1.24
1	dV	49	PRO	C-N	5.08	1.40	1.33
1	1o	182	LYS	N-CA	-5.08	1.40	1.46
1	er	196	PRO	CA-CB	-5.08	1.46	1.53
1	eE	168	PHE	CA-C	-5.08	1.46	1.52
1	eR	61	GLY	C-N	5.08	1.40	1.33
1	eU	101	GLY	N-CA	5.08	1.52	1.45
1	f2	116	GLY	CA-C	5.08	1.57	1.52
1	f6	105	ALA	CA-CB	5.08	1.62	1.53
1	fr	154	ARG	CA-CB	5.08	1.62	1.53
1	fC	20	LEU	C-N	5.08	1.40	1.33
1	fK	102	SER	CA-C	-5.08	1.45	1.52
1	fM	10	MET	CG-SD	5.08	1.93	1.80
1	fP	119	THR	C-N	5.08	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g0	166	ASP	CA-C	5.08	1.59	1.52
1	g7	115	ILE	C-N	-5.08	1.27	1.33
1	d	69	LEU	CA-CB	5.08	1.61	1.53
1	e	56	LEU	N-CA	5.08	1.52	1.46
1	e	226	HIS	CB-CG	-5.08	1.43	1.50
1	E	41	SER	CA-C	5.08	1.59	1.52
1	F	202	LEU	CA-CB	5.08	1.61	1.53
1	G	99	PRO	N-CD	-5.08	1.40	1.47
1	gs	40	PHE	N-CA	-5.07	1.40	1.46
1	gs	44	SER	CA-C	-5.07	1.44	1.52
1	1F	122	PRO	N-CD	-5.07	1.40	1.47
1	gM	113	GLU	CA-CB	5.07	1.61	1.53
1	gR	123	PRO	CA-CB	5.07	1.60	1.53
1	h1	12	HIS	CA-C	-5.07	1.46	1.52
1	hs	215	MET	CA-CB	5.07	1.61	1.53
1	1M	160	PRO	N-CD	5.07	1.54	1.47
1	i8	205	LEU	N-CA	5.07	1.52	1.46
1	1P	13	GLN	C-N	5.07	1.40	1.33
1	ix	193	ASN	N-CA	5.07	1.52	1.46
1	1T	120	HIS	CE1-NE2	-5.07	1.27	1.32
1	1T	152	ASP	C-N	-5.07	1.27	1.33
1	jl	171	THR	C-N	5.07	1.40	1.33
1	jm	158	LYS	CA-CB	5.07	1.60	1.53
1	jw	170	LYS	N-CA	-5.07	1.40	1.46
1	jR	201	ILE	C-N	5.07	1.40	1.33
1	kg	182	LYS	CA-C	5.07	1.59	1.52
1	ki	166	ASP	CA-CB	5.07	1.61	1.53
1	kt	184	TRP	CA-CB	5.07	1.61	1.53
1	kD	51	ASP	C-N	5.07	1.40	1.33
1	kJ	184	TRP	N-CA	5.07	1.52	1.46
1	kK	44	SER	C-O	-5.07	1.17	1.24
1	kX	35	GLU	CA-C	5.07	1.59	1.52
1	l7	38	PRO	N-CA	-5.07	1.41	1.47
1	lc	227	LYS	N-CA	-5.07	1.39	1.46
1	lg	195	ASN	CA-CB	5.07	1.61	1.52
1	li	143	ARG	CA-CB	5.07	1.61	1.53
1	lr	190	LEU	CA-CB	5.07	1.61	1.53
1	lt	36	VAL	N-CA	-5.07	1.40	1.46
1	lH	25	LYS	C-N	5.07	1.40	1.33
1	2g	110	THR	C-O	-5.07	1.17	1.23
1	2j	29	GLU	CA-CB	5.07	1.61	1.53
1	2q	12	HIS	C-O	5.07	1.30	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2F	221	VAL	CA-CB	-5.07	1.47	1.53
1	2M	171	THR	CA-CB	5.07	1.61	1.53
1	2S	146	SER	CA-CB	5.07	1.60	1.53
1	2W	17	PRO	CA-C	-5.07	1.43	1.52
1	35	230	VAL	CA-CB	-5.07	1.48	1.54
1	3e	80	TRP	NE1-CE2	-5.07	1.31	1.37
1	3i	9	GLN	CA-CB	5.07	1.62	1.53
1	3y	143	ARG	CA-CB	-5.07	1.45	1.53
1	3P	123	PRO	N-CD	-5.07	1.40	1.47
1	3V	230	VAL	CA-C	-5.07	1.46	1.52
1	41	219	GLN	N-CA	5.07	1.52	1.46
1	46	226	HIS	CA-C	5.07	1.59	1.52
1	4h	124	ILE	N-CA	-5.07	1.41	1.46
1	4B	113	GLU	N-CA	5.07	1.52	1.46
1	5c	154	ARG	CA-CB	5.07	1.62	1.53
1	5h	15	ILE	C-N	5.07	1.41	1.33
1	5Q	133	TRP	NE1-CE2	-5.07	1.31	1.37
1	62	216	THR	C-N	5.07	1.40	1.33
1	6d	78	ALA	CA-CB	5.07	1.61	1.53
1	6e	142	VAL	N-CA	-5.07	1.40	1.46
1	6j	100	ARG	NE-CZ	-5.07	1.27	1.33
1	6l	113	GLU	C-O	-5.07	1.18	1.24
1	6o	11	VAL	CA-C	-5.07	1.46	1.52
1	6t	63	GLN	C-N	5.07	1.40	1.33
1	6I	97	ARG	CZ-NH1	-5.07	1.25	1.32
1	6L	18	ARG	C-O	-5.07	1.18	1.24
1	6M	50	GLN	CA-CB	5.07	1.61	1.53
1	6R	81	ASP	N-CA	-5.07	1.40	1.46
1	6W	200	THR	C-N	5.07	1.40	1.33
1	7c	70	LYS	C-N	5.07	1.40	1.33
1	7v	171	THR	CA-CB	5.07	1.61	1.53
1	7A	119	THR	CA-C	5.07	1.59	1.52
1	7B	17	PRO	C-O	-5.07	1.18	1.24
1	7B	79	GLU	CA-C	5.07	1.59	1.52
1	7D	196	PRO	CA-C	-5.07	1.45	1.52
1	7K	16	SER	C-N	5.07	1.41	1.33
1	7X	221	VAL	CA-C	5.07	1.59	1.52
1	7Y	154	ARG	CD-NE	5.07	1.53	1.46
1	8s	152	ASP	C-N	5.07	1.40	1.33
1	8Y	193	ASN	C-N	5.07	1.40	1.33
1	92	136	LEU	CA-C	5.07	1.59	1.52
1	9E	210	THR	C-N	5.07	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9J	142	VAL	C-N	5.07	1.40	1.33
1	9K	221	VAL	CA-CB	-5.07	1.48	1.54
1	9O	58	THR	CA-C	5.07	1.59	1.52
1	9P	77	ALA	CA-CB	5.07	1.61	1.53
1	10	142	VAL	CA-CB	-5.07	1.48	1.54
1	ao	164	TYR	CA-CB	5.07	1.61	1.53
1	ao	210	THR	C-N	5.07	1.40	1.33
1	ar	182	LYS	C-N	5.07	1.40	1.33
1	at	53	ASN	C-O	-5.07	1.18	1.24
1	aI	99	PRO	N-CA	-5.07	1.41	1.47
1	aS	21	ASN	CG-ND2	5.07	1.44	1.33
1	b8	153	ILE	CA-C	5.07	1.58	1.52
1	bj	87	HIS	CD2-NE2	5.07	1.43	1.37
1	bk	97	ARG	N-CA	5.07	1.52	1.45
1	br	33	SER	C-O	-5.07	1.18	1.24
1	18	85	PRO	CA-C	5.07	1.58	1.52
1	by	104	ILE	CA-CB	-5.07	1.48	1.54
1	bz	92	GLU	N-CA	5.07	1.53	1.46
1	1b	142	VAL	CA-C	-5.07	1.46	1.52
1	bW	197	ASP	CA-C	5.07	1.59	1.52
1	cb	151	LEU	CA-C	5.07	1.59	1.52
1	ch	231	LEU	CB-CG	5.07	1.63	1.53
1	ck	51	ASP	C-O	-5.07	1.18	1.24
1	cl	226	HIS	N-CA	5.07	1.52	1.46
1	cm	180	GLU	N-CA	-5.07	1.40	1.46
1	cy	173	ARG	CZ-NH2	-5.07	1.26	1.33
1	1f	187	GLU	C-N	5.07	1.40	1.33
1	cP	184	TRP	N-CA	-5.07	1.40	1.46
1	cR	62	HIS	CB-CG	-5.07	1.43	1.50
1	do	49	PRO	CA-C	5.07	1.59	1.52
1	dw	229	ARG	N-CA	-5.07	1.39	1.46
1	1n	65	ALA	C-N	-5.07	1.27	1.33
1	1n	93	PRO	N-CD	-5.07	1.40	1.47
1	dY	50	GLN	CA-C	5.07	1.59	1.52
1	1p	77	ALA	CA-CB	5.07	1.61	1.53
1	eh	212	GLU	C-N	5.07	1.40	1.34
1	eF	21	ASN	N-CA	-5.07	1.40	1.46
1	eM	18	ARG	CA-C	5.07	1.59	1.52
1	eO	128	GLU	C-N	5.07	1.40	1.33
1	eW	184	TRP	CA-C	5.07	1.59	1.52
1	f5	8	GLY	CA-C	-5.07	1.44	1.51
1	f5	88	ALA	CA-C	5.07	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fc	162	ARG	CA-C	5.07	1.59	1.52
1	fi	33	SER	CA-C	5.07	1.58	1.52
1	fi	78	ALA	C-N	5.07	1.40	1.34
1	fy	54	THR	CA-CB	-5.07	1.45	1.53
1	fM	13	GLN	N-CA	-5.07	1.40	1.46
1	fU	11	VAL	N-CA	-5.07	1.40	1.46
1	1A	190	LEU	C-N	5.07	1.40	1.33
1	fZ	154	ARG	CA-CB	5.07	1.62	1.53
1	fZ	207	PRO	CA-CB	5.07	1.60	1.53
1	g0	187	GLU	C-N	-5.07	1.26	1.33
1	g3	204	ALA	CA-C	5.07	1.59	1.52
1	1	133	TRP	C-N	5.07	1.40	1.33
1	E	180	GLU	N-CA	5.07	1.52	1.46
1	M	146	SER	C-N	5.07	1.39	1.33
1	V	164	TYR	CA-CB	5.07	1.61	1.53
1	gS	122	PRO	N-CD	-5.07	1.40	1.47
1	1H	133	TRP	C-N	5.07	1.40	1.33
1	i1	228	ALA	CA-CB	5.07	1.61	1.53
1	iM	30	LYS	CA-CB	5.07	1.62	1.53
1	iO	227	LYS	CA-C	5.07	1.59	1.52
1	iT	23	TRP	CA-CB	5.07	1.61	1.53
1	j6	18	ARG	N-CA	-5.07	1.40	1.46
1	js	215	MET	C-O	5.07	1.30	1.24
1	jv	130	TYR	C-O	-5.07	1.18	1.24
1	jA	172	LEU	N-CA	5.07	1.52	1.46
1	jB	32	PHE	C-N	5.07	1.41	1.33
1	k2	203	LYS	N-CA	-5.07	1.40	1.46
1	k6	171	THR	CA-CB	5.07	1.61	1.53
1	k8	205	LEU	CA-CB	5.07	1.62	1.53
1	kr	24	VAL	CA-CB	5.07	1.60	1.54
1	lj	210	THR	CA-CB	5.07	1.62	1.53
1	lu	176	GLN	CA-CB	5.07	1.61	1.53
1	lR	35	GLU	C-O	5.07	1.30	1.24
1	2t	91	ILE	C-N	5.07	1.41	1.33
1	2S	92	GLU	N-CA	5.07	1.52	1.45
1	3p	180	GLU	C-N	-5.07	1.27	1.33
1	3C	230	VAL	N-CA	5.07	1.52	1.46
1	3V	171	THR	N-CA	5.07	1.52	1.46
1	4m	84	HIS	N-CA	5.07	1.51	1.46
1	4U	56	LEU	CA-CB	5.07	1.61	1.53
1	5E	152	ASP	N-CA	-5.07	1.39	1.46
1	5U	132	ARG	N-CA	-5.07	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6d	100	ARG	CD-NE	5.07	1.53	1.46
1	6d	192	GLN	C-O	-5.07	1.18	1.24
1	6h	140	LYS	N-CA	-5.07	1.40	1.46
1	6D	2	ILE	C-N	5.07	1.38	1.33
1	6L	214	MET	C-N	5.07	1.40	1.33
1	7s	103	ASP	C-N	-5.07	1.27	1.33
1	7Q	198	CYS	N-CA	-5.07	1.39	1.46
1	7V	47	ALA	CA-CB	5.07	1.60	1.53
1	8j	145	TYR	CA-C	5.07	1.59	1.52
1	8q	108	THR	CA-C	5.07	1.59	1.52
1	8u	135	ILE	CA-CB	-5.07	1.47	1.54
1	8U	177	ALA	C-O	-5.07	1.16	1.23
1	96	165	VAL	CA-CB	5.07	1.60	1.54
1	9h	51	ASP	CA-CB	5.07	1.61	1.53
1	9t	24	VAL	CA-CB	5.07	1.61	1.54
1	9O	192	GLN	N-CA	5.07	1.52	1.46
1	9Y	47	ALA	CA-C	-5.07	1.46	1.52
1	aF	85	PRO	N-CA	-5.07	1.40	1.47
1	aO	6	LEU	CA-CB	5.07	1.61	1.53
1	b6	99	PRO	CA-C	-5.07	1.47	1.52
1	cm	31	ALA	C-O	-5.07	1.18	1.24
1	cx	159	GLU	C-N	-5.07	1.27	1.33
1	cV	212	GLU	CA-C	5.07	1.59	1.52
1	1j	22	ALA	C-O	-5.07	1.18	1.24
1	dN	117	TRP	NE1-CE2	-5.07	1.31	1.37
1	dV	15	ILE	CB-CG1	5.07	1.63	1.53
1	eb	59	VAL	C-N	5.07	1.41	1.33
1	en	38	PRO	CA-C	-5.07	1.44	1.52
1	es	10	MET	C-N	5.07	1.39	1.33
1	ey	82	ARG	CD-NE	5.07	1.53	1.46
1	eC	32	PHE	CA-C	5.07	1.59	1.53
1	eI	117	TRP	CA-C	5.07	1.59	1.52
1	fD	68	MET	C-N	-5.07	1.27	1.33
1	d	121	ASN	N-CA	5.07	1.52	1.46
1	n	128	GLU	C-O	-5.07	1.18	1.24
1	n	230	VAL	CA-CB	-5.07	1.49	1.54
1	R	14	ALA	CA-CB	-5.07	1.44	1.53
1	ge	151	LEU	CA-C	-5.07	1.46	1.52
1	1E	166	ASP	CA-CB	5.07	1.61	1.53
1	1F	224	PRO	N-CA	5.07	1.53	1.47
1	gM	185	MET	CG-SD	5.07	1.93	1.80
1	hh	162	ARG	CA-CB	5.07	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hm	154	ARG	CZ-NH2	-5.07	1.26	1.33
1	hn	87	HIS	ND1-CE1	5.07	1.37	1.32
1	ht	189	LEU	CA-C	-5.07	1.46	1.52
1	hz	153	ILE	N-CA	5.07	1.52	1.46
1	hB	99	PRO	C-N	5.07	1.40	1.33
1	hK	126	VAL	CA-CB	5.07	1.62	1.54
1	hQ	53	ASN	N-CA	-5.07	1.40	1.46
1	1N	150	ILE	CB-CG1	5.07	1.63	1.53
1	i5	124	ILE	CA-C	-5.07	1.48	1.53
1	i6	133	TRP	CA-CB	5.07	1.61	1.53
1	i8	108	THR	N-CA	5.07	1.52	1.46
1	if	24	VAL	CA-CB	5.07	1.60	1.54
1	ii	167	ARG	N-CA	-5.07	1.40	1.46
1	iu	185	MET	CA-CB	5.07	1.61	1.53
1	iy	67	GLN	C-O	-5.07	1.18	1.24
1	iE	10	MET	N-CA	-5.07	1.39	1.46
1	iN	75	GLU	CA-C	5.07	1.59	1.52
1	iQ	40	PHE	CG-CD2	5.07	1.49	1.38
1	iT	230	VAL	CA-CB	-5.07	1.48	1.53
1	jl	186	THR	C-O	5.07	1.29	1.24
1	jD	120	HIS	ND1-CE1	-5.07	1.27	1.32
1	jR	113	GLU	N-CA	5.07	1.52	1.46
1	jT	224	PRO	CA-CB	5.07	1.60	1.53
1	jV	35	GLU	C-N	5.07	1.40	1.33
1	k3	158	LYS	N-CA	-5.07	1.40	1.46
1	kc	206	GLY	CA-C	-5.07	1.44	1.51
1	kh	72	THR	C-N	5.07	1.40	1.33
1	ki	41	SER	N-CA	5.07	1.52	1.46
1	km	153	ILE	CA-C	5.07	1.58	1.52
1	kp	226	HIS	C-O	-5.07	1.17	1.24
1	ks	113	GLU	C-O	-5.07	1.18	1.24
1	kN	120	HIS	CA-CB	5.07	1.61	1.53
1	kQ	204	ALA	C-O	-5.07	1.18	1.24
1	kV	30	LYS	C-N	5.07	1.40	1.33
1	l4	18	ARG	C-N	5.07	1.40	1.33
1	li	133	TRP	NE1-CE2	-5.07	1.31	1.37
1	lj	4	GLN	C-N	5.07	1.40	1.33
1	lk	102	SER	N-CA	5.07	1.52	1.46
1	lp	217	ALA	N-CA	-5.07	1.39	1.45
1	lD	153	ILE	CA-C	5.07	1.59	1.52
1	lR	132	ARG	C-N	5.07	1.41	1.33
1	2q	192	GLN	N-CA	-5.07	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	33	162	ARG	CA-C	-5.07	1.46	1.52
1	3J	157	PRO	CA-CB	5.07	1.61	1.53
1	3Z	66	MET	CA-CB	5.07	1.61	1.53
1	43	13	GLN	CA-C	-5.07	1.46	1.52
1	43	125	PRO	N-CA	-5.07	1.39	1.48
1	44	163	ASP	C-N	5.07	1.40	1.33
1	48	130	TYR	CA-C	5.07	1.59	1.52
1	4h	122	PRO	N-CD	-5.07	1.40	1.47
1	4i	205	LEU	CA-C	5.07	1.59	1.53
1	4q	84	HIS	ND1-CE1	5.07	1.37	1.32
1	4G	64	ALA	C-O	-5.07	1.17	1.24
1	4M	166	ASP	C-N	5.07	1.40	1.33
1	4Z	188	THR	CA-C	5.07	1.57	1.52
1	50	129	ILE	CB-CG1	5.07	1.63	1.53
1	53	228	ALA	C-N	5.07	1.40	1.33
1	59	183	ASN	CA-CB	5.07	1.61	1.53
1	5c	123	PRO	CA-CB	-5.07	1.47	1.53
1	5H	143	ARG	CD-NE	5.07	1.53	1.46
1	67	105	ALA	CA-C	5.07	1.61	1.52
1	6a	62	HIS	CD2-NE2	-5.07	1.32	1.37
1	6i	94	GLY	N-CA	5.07	1.52	1.45
1	6Y	162	ARG	C-N	5.07	1.40	1.33
1	75	198	CYS	C-N	5.07	1.40	1.33
1	7q	1	PRO	CA-CB	5.07	1.63	1.53
1	7t	162	ARG	CA-C	-5.07	1.46	1.52
1	7J	188	THR	CA-C	5.07	1.59	1.52
1	7R	59	VAL	C-N	5.07	1.41	1.33
1	7R	65	ALA	CA-CB	5.07	1.61	1.53
1	7S	17	PRO	N-CA	-5.07	1.40	1.47
1	7T	81	ASP	CA-CB	5.07	1.62	1.53
1	89	56	LEU	CA-CB	5.07	1.61	1.53
1	8g	169	TYR	N-CA	-5.07	1.40	1.46
1	8A	38	PRO	C-N	5.07	1.40	1.33
1	90	168	PHE	CG-CD2	5.07	1.49	1.38
1	9m	201	ILE	CA-C	5.07	1.59	1.52
1	9u	161	PHE	C-N	-5.07	1.27	1.33
1	9y	155	GLN	CA-CB	5.07	1.62	1.53
1	9A	144	MET	CA-CB	5.07	1.61	1.53
1	9N	211	LEU	CA-CB	5.07	1.61	1.53
1	9Y	171	THR	C-O	-5.07	1.18	1.24
1	a5	154	ARG	CD-NE	5.07	1.53	1.46
1	ae	205	LEU	N-CA	-5.07	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ah	111	LEU	C-N	5.07	1.40	1.33
1	aj	12	HIS	CB-CG	5.07	1.57	1.50
1	am	30	LYS	CA-CB	5.07	1.61	1.53
1	am	46	GLY	CA-C	-5.07	1.44	1.51
1	am	116	GLY	CA-C	5.07	1.57	1.52
1	aC	147	PRO	N-CD	-5.07	1.40	1.47
1	aD	96	MET	CA-CB	5.07	1.61	1.53
1	aP	170	LYS	N-CA	5.07	1.52	1.46
1	bC	180	GLU	C-O	-5.07	1.18	1.24
1	bZ	146	SER	C-O	-5.07	1.17	1.24
1	c4	10	MET	CA-C	-5.07	1.47	1.53
1	cm	69	LEU	CA-C	-5.07	1.46	1.52
1	cr	141	ILE	CA-CB	-5.07	1.48	1.54
1	cy	178	SER	CA-C	5.07	1.59	1.52
1	cA	42	ALA	CA-C	-5.07	1.45	1.52
1	cE	168	PHE	CA-CB	5.07	1.61	1.53
1	cF	24	VAL	N-CA	5.07	1.52	1.46
1	cU	128	GLU	CA-CB	5.07	1.61	1.53
1	cU	151	LEU	CA-CB	5.07	1.61	1.53
1	cW	205	LEU	N-CA	-5.07	1.39	1.46
1	cX	79	GLU	CA-CB	5.07	1.61	1.53
1	db	56	LEU	CA-CB	5.07	1.61	1.53
1	dc	223	GLY	CA-C	5.07	1.59	1.51
1	dj	145	TYR	CA-CB	5.07	1.60	1.53
1	dE	18	ARG	CA-CB	5.07	1.61	1.53
1	dH	184	TRP	CA-C	5.07	1.59	1.52
1	dL	82	ARG	N-CA	5.07	1.52	1.46
1	dQ	111	LEU	C-O	-5.07	1.18	1.24
1	dW	47	ALA	CA-C	5.07	1.59	1.52
1	e0	57	ASN	N-CA	-5.07	1.39	1.46
1	ed	173	ARG	CA-CB	5.07	1.61	1.53
1	el	176	GLN	CA-C	-5.07	1.47	1.53
1	er	201	ILE	CB-CG1	5.07	1.63	1.53
1	es	202	LEU	N-CA	-5.07	1.40	1.46
1	eA	134	ILE	N-CA	5.07	1.52	1.46
1	eF	158	LYS	N-CA	5.07	1.52	1.46
1	eJ	125	PRO	CA-C	-5.07	1.48	1.52
1	eK	68	MET	N-CA	-5.07	1.40	1.46
1	f0	112	GLN	CA-CB	5.07	1.61	1.53
1	f7	183	ASN	N-CA	-5.07	1.40	1.46
1	f8	47	ALA	CA-CB	5.07	1.61	1.53
1	fy	59	VAL	CA-CB	5.07	1.59	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fO	50	GLN	C-N	5.07	1.40	1.33
1	fS	66	MET	N-CA	5.07	1.52	1.46
1	e	167	ARG	C-N	-5.07	1.27	1.33
1	B	216	THR	N-CA	5.07	1.52	1.46
1	Q	113	GLU	C-N	5.07	1.40	1.33
1	T	55	MET	CA-CB	5.07	1.61	1.53
1	U	212	GLU	N-CA	-5.07	1.40	1.46
1	X	139	ASN	C-O	-5.07	1.18	1.24
1	1D	226	HIS	ND1-CE1	5.07	1.37	1.32
1	gA	62	HIS	CA-C	5.07	1.59	1.53
1	gF	170	LYS	C-N	5.07	1.41	1.34
1	gI	145	TYR	CZ-OH	5.07	1.48	1.38
1	gK	12	HIS	CA-CB	5.07	1.61	1.53
1	1F	62	HIS	CG-ND1	5.07	1.43	1.38
1	hD	92	GLU	CA-C	5.07	1.58	1.52
1	i9	31	ALA	C-O	-5.07	1.17	1.24
1	iX	56	LEU	CA-CB	5.07	1.61	1.53
1	jc	36	VAL	CA-CB	-5.07	1.47	1.54
1	jh	43	LEU	N-CA	-5.07	1.40	1.46
1	jz	145	TYR	CA-C	-5.07	1.46	1.52
1	lr	59	VAL	CA-CB	-5.07	1.48	1.53
1	28	214	MET	CA-CB	5.07	1.61	1.53
1	ls	51	ASP	C-N	-5.07	1.27	1.33
1	2e	12	HIS	CD2-NE2	-5.07	1.32	1.37
1	2i	220	GLY	N-CA	5.07	1.52	1.45
1	2A	87	HIS	CD2-NE2	5.07	1.43	1.37
1	2Y	171	THR	CA-C	-5.07	1.46	1.52
1	35	194	ALA	CA-CB	5.07	1.61	1.53
1	3o	52	LEU	C-N	5.07	1.40	1.34
1	3x	126	VAL	CA-CB	5.07	1.60	1.54
1	3G	83	LEU	N-CA	-5.07	1.39	1.46
1	3L	66	MET	N-CA	-5.07	1.40	1.46
1	45	203	LYS	N-CA	-5.07	1.40	1.46
1	4M	115	ILE	CA-CB	-5.07	1.48	1.54
1	4U	174	ALA	CA-C	5.07	1.59	1.52
1	5x	52	LEU	N-CA	5.07	1.52	1.46
1	5B	161	PHE	CA-CB	5.07	1.62	1.53
1	5Z	49	PRO	CA-CB	-5.07	1.46	1.53
1	5Z	167	ARG	CZ-NH2	-5.07	1.26	1.33
1	69	116	GLY	CA-C	-5.07	1.46	1.52
1	6z	135	ILE	CA-C	5.07	1.60	1.52
1	6A	64	ALA	CA-C	5.07	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6H	123	PRO	CA-C	-5.07	1.46	1.52
1	6Q	154	ARG	CD-NE	5.07	1.53	1.46
1	75	133	TRP	CA-C	-5.07	1.46	1.52
1	7a	95	GLN	C-N	5.07	1.40	1.33
1	7z	28	GLU	CA-C	5.07	1.59	1.52
1	7Y	189	LEU	CA-C	-5.07	1.45	1.52
1	8b	42	ALA	C-N	5.07	1.41	1.34
1	8G	25	LYS	CA-C	5.07	1.59	1.52
1	9j	104	ILE	CB-CG1	5.07	1.63	1.53
1	9x	210	THR	C-N	5.07	1.40	1.33
1	ao	116	GLY	CA-C	-5.07	1.46	1.52
1	az	92	GLU	CA-CB	5.07	1.61	1.53
1	17	84	HIS	CB-CG	5.07	1.57	1.50
1	bm	110	THR	C-N	5.07	1.40	1.33
1	bu	70	LYS	CA-C	-5.07	1.46	1.52
1	bz	137	GLY	C-N	5.07	1.40	1.33
1	bL	87	HIS	ND1-CE1	5.07	1.37	1.32
1	bQ	224	PRO	CA-C	5.07	1.58	1.52
1	cp	26	VAL	C-N	5.07	1.40	1.33
1	eq	108	THR	CA-C	5.07	1.59	1.52
1	ex	183	ASN	C-N	5.07	1.40	1.33
1	ez	68	MET	N-CA	-5.07	1.40	1.46
1	eG	196	PRO	N-CD	5.07	1.54	1.47
1	eK	56	LEU	CA-C	-5.07	1.45	1.52
1	f3	169	TYR	CA-CB	5.07	1.61	1.53
1	fj	12	HIS	CG-CD2	5.07	1.41	1.35
1	fI	160	PRO	N-CA	5.07	1.53	1.47
1	H	195	ASN	N-CA	5.07	1.52	1.45
1	R	230	VAL	CA-CB	-5.07	1.48	1.55
1	U	170	LYS	CA-CB	5.07	1.61	1.53
1	gi	159	GLU	CA-C	5.07	1.58	1.53
1	gm	7	GLN	C-N	5.07	1.40	1.33
1	gn	66	MET	CA-CB	5.07	1.61	1.53
1	gz	225	GLY	CA-C	-5.07	1.44	1.51
1	h4	100	ARG	C-N	5.07	1.41	1.33
1	ha	80	TRP	CA-CB	5.07	1.61	1.53
1	hr	40	PHE	C-N	5.07	1.40	1.33
1	hB	208	ALA	N-CA	-5.07	1.39	1.46
1	hI	140	LYS	CA-CB	5.07	1.61	1.53
1	hJ	32	PHE	C-O	5.07	1.30	1.24
1	1L	144	MET	CA-C	-5.07	1.46	1.52
1	hK	48	THR	CA-C	5.07	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hL	175	GLU	CA-C	5.07	1.59	1.52
1	hP	184	TRP	CA-C	5.07	1.59	1.52
1	hR	225	GLY	CA-C	-5.07	1.44	1.51
1	hT	120	HIS	C-N	5.07	1.39	1.33
1	hW	1	PRO	N-CD	5.07	1.54	1.47
1	ia	111	LEU	C-N	5.07	1.40	1.33
1	1P	50	GLN	CA-C	5.07	1.59	1.52
1	iu	152	ASP	CA-C	5.07	1.59	1.52
1	iw	199	LYS	N-CA	-5.07	1.40	1.46
1	iQ	209	ALA	C-N	-5.07	1.26	1.33
1	j0	138	LEU	C-N	5.07	1.41	1.34
1	jd	45	GLU	C-N	5.07	1.40	1.33
1	jf	81	ASP	CA-CB	5.07	1.61	1.53
1	jv	81	ASP	CA-CB	5.07	1.61	1.53
1	jB	228	ALA	CA-C	-5.07	1.46	1.52
1	jF	23	TRP	N-CA	-5.07	1.40	1.46
1	jP	1	PRO	CA-C	-5.07	1.42	1.52
1	jS	7	GLN	CA-C	5.07	1.61	1.52
1	jT	65	ALA	N-CA	5.07	1.52	1.46
1	kk	168	PHE	CA-CB	5.07	1.61	1.53
1	ko	207	PRO	N-CA	-5.07	1.40	1.47
1	kr	124	ILE	CA-CB	5.07	1.59	1.53
1	ky	154	ARG	CA-C	-5.07	1.46	1.52
1	kA	125	PRO	C-N	5.07	1.40	1.33
1	kF	215	MET	C-N	-5.07	1.27	1.33
1	kX	53	ASN	CA-C	-5.07	1.46	1.52
1	lp	173	ARG	CA-C	5.07	1.59	1.52
1	lt	165	VAL	C-O	-5.07	1.18	1.24
1	lx	124	ILE	N-CA	-5.07	1.42	1.46
1	lz	1	PRO	N-CD	5.07	1.54	1.47
1	lN	52	LEU	N-CA	-5.07	1.40	1.46
1	2k	68	MET	N-CA	-5.07	1.40	1.46
1	2r	93	PRO	CA-C	5.07	1.59	1.52
1	2A	132	ARG	CZ-NH1	-5.07	1.25	1.32
1	2F	207	PRO	C-O	-5.07	1.18	1.24
1	2R	117	TRP	CA-CB	5.07	1.61	1.53
1	32	98	GLU	CA-C	-5.07	1.47	1.52
1	34	167	ARG	CA-CB	5.07	1.61	1.53
1	36	92	GLU	CA-C	5.07	1.58	1.53
1	3b	131	LYS	CA-CB	5.07	1.61	1.53
1	3n	9	GLN	C-N	5.07	1.40	1.33
1	3p	42	ALA	N-CA	-5.07	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3y	146	SER	CA-C	5.07	1.58	1.52
1	3L	113	GLU	CA-CB	5.07	1.61	1.53
1	4b	165	VAL	CA-C	5.07	1.59	1.52
1	4o	84	HIS	ND1-CE1	5.07	1.37	1.32
1	4p	81	ASP	CA-CB	5.07	1.61	1.53
1	4F	75	GLU	CA-CB	5.07	1.61	1.53
1	4P	39	MET	CA-C	5.07	1.59	1.52
1	4T	84	HIS	CA-C	5.07	1.58	1.52
1	5m	67	GLN	C-O	5.07	1.30	1.24
1	5I	174	ALA	C-O	-5.07	1.17	1.24
1	69	96	MET	CA-CB	5.07	1.61	1.53
1	6d	191	VAL	C-N	5.07	1.40	1.33
1	6p	67	GLN	CA-C	-5.07	1.46	1.52
1	6D	94	GLY	C-O	-5.07	1.16	1.24
1	6K	58	THR	C-N	-5.07	1.27	1.33
1	76	198	CYS	CA-CB	5.07	1.61	1.53
1	7b	74	ASN	CA-CB	5.07	1.61	1.53
1	7m	85	PRO	C-N	-5.07	1.27	1.33
1	7A	184	TRP	CA-CB	5.07	1.61	1.53
1	7B	183	ASN	CA-C	-5.07	1.46	1.52
1	7U	113	GLU	C-O	-5.07	1.18	1.24
1	85	165	VAL	C-N	5.07	1.40	1.33
1	8f	149	SER	C-N	5.07	1.39	1.34
1	8g	31	ALA	CA-C	5.07	1.59	1.52
1	8i	3	VAL	C-N	5.07	1.39	1.33
1	8l	87	HIS	CA-CB	5.07	1.61	1.53
1	8v	159	GLU	C-O	5.07	1.30	1.23
1	8E	184	TRP	C-O	-5.07	1.18	1.24
1	8M	9	GLN	CA-CB	5.07	1.62	1.53
1	96	143	ARG	CD-NE	5.07	1.53	1.46
1	9v	170	LYS	C-N	5.07	1.40	1.33
1	9y	82	ARG	CA-C	5.07	1.59	1.52
1	9z	220	GLY	N-CA	-5.07	1.38	1.45
1	9S	134	ILE	CA-CB	-5.07	1.48	1.54
1	9U	31	ALA	CA-C	-5.07	1.46	1.53
1	11	74	ASN	C-N	5.07	1.40	1.33
1	ao	211	LEU	CA-C	-5.07	1.46	1.52
1	12	108	THR	N-CA	5.07	1.52	1.46
1	aF	155	GLN	C-N	5.07	1.41	1.33
1	aR	82	ARG	CD-NE	5.07	1.53	1.46
1	bj	116	GLY	CA-C	-5.07	1.46	1.52
1	bk	177	ALA	CA-C	5.07	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bl	132	ARG	CD-NE	5.07	1.53	1.46
1	bx	82	ARG	CZ-NH2	-5.07	1.26	1.33
1	bF	166	ASP	C-N	5.07	1.41	1.33
1	bK	43	LEU	CA-C	5.07	1.59	1.52
1	bL	12	HIS	ND1-CE1	5.07	1.37	1.32
1	bU	203	LYS	CA-CB	5.07	1.61	1.53
1	ck	132	ARG	CA-CB	5.07	1.61	1.53
1	1e	207	PRO	CA-C	5.07	1.60	1.52
1	cA	191	VAL	C-O	-5.07	1.18	1.24
1	cD	120	HIS	ND1-CE1	5.07	1.37	1.32
1	cM	97	ARG	CD-NE	5.07	1.53	1.46
1	cN	23	TRP	NE1-CE2	-5.07	1.31	1.37
1	cQ	95	GLN	C-N	5.07	1.40	1.33
1	cR	54	THR	N-CA	5.07	1.52	1.46
1	d5	166	ASP	N-CA	-5.07	1.40	1.46
1	d6	29	GLU	CA-CB	5.07	1.61	1.53
1	d7	120	HIS	CB-CG	5.07	1.57	1.50
1	dl	209	ALA	C-N	5.07	1.40	1.33
1	dr	190	LEU	CB-CG	5.07	1.63	1.53
1	dr	230	VAL	C-O	-5.07	1.18	1.24
1	1l	151	LEU	C-N	5.07	1.41	1.33
1	dD	176	GLN	CA-CB	5.07	1.61	1.53
1	dG	194	ALA	C-N	5.07	1.40	1.33
1	dU	128	GLU	C-N	5.07	1.40	1.33
1	dW	91	ILE	C-N	5.07	1.40	1.33
1	dY	81	ASP	CA-C	5.07	1.59	1.52
1	1o	117	TRP	NE1-CE2	-5.07	1.31	1.37
1	es	158	LYS	CA-CB	5.07	1.61	1.53
1	1s	75	GLU	N-CA	-5.07	1.39	1.46
1	eK	227	LYS	CA-CB	5.07	1.61	1.53
1	f1	20	LEU	C-O	-5.07	1.18	1.24
1	f5	93	PRO	CA-C	5.07	1.58	1.52
1	fe	59	VAL	CA-CB	-5.07	1.48	1.54
1	fp	132	ARG	C-N	5.07	1.40	1.33
1	fz	40	PHE	CA-CB	5.07	1.61	1.53
1	fz	216	THR	CA-CB	5.07	1.61	1.53
1	fE	42	ALA	N-CA	-5.07	1.39	1.46
1	fJ	196	PRO	CA-CB	5.07	1.60	1.53
1	fL	190	LEU	C-N	5.07	1.40	1.33
1	fO	131	LYS	CA-C	-5.07	1.46	1.52
1	fP	163	ASP	CA-CB	5.07	1.62	1.53
1	g7	194	ALA	CA-CB	5.07	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	g	80	TRP	CA-CB	5.07	1.61	1.53
1	l	213	GLU	N-CA	5.07	1.52	1.46
1	o	23	TRP	NE1-CE2	-5.07	1.31	1.37
1	v	173	ARG	CD-NE	5.07	1.53	1.46
1	3	142	VAL	CA-C	5.07	1.59	1.52
1	G	41	SER	CA-CB	5.07	1.61	1.53
1	O	35	GLU	N-CA	-5.07	1.40	1.46
1	gc	27	VAL	C-N	5.07	1.40	1.33
1	gN	113	GLU	CA-CB	5.07	1.61	1.53
1	h5	154	ARG	C-O	-5.07	1.17	1.23
1	h6	67	GLN	CA-CB	5.07	1.61	1.53
1	hs	227	LYS	CA-C	5.07	1.59	1.52
1	hu	54	THR	CA-C	5.07	1.59	1.52
1	1O	218	CYS	CA-CB	5.07	1.61	1.53
1	iq	72	THR	N-CA	5.07	1.52	1.46
1	it	230	VAL	CA-C	5.07	1.59	1.52
1	ix	141	ILE	C-N	5.07	1.40	1.33
1	iQ	146	SER	CA-CB	5.07	1.61	1.53
1	iX	77	ALA	CA-C	5.07	1.59	1.52
1	j0	152	ASP	CA-CB	5.07	1.60	1.53
1	1T	207	PRO	CA-CB	-5.07	1.46	1.53
1	1T	226	HIS	ND1-CE1	5.07	1.37	1.32
1	j3	159	GLU	CA-CB	5.07	1.63	1.53
1	j6	192	GLN	CA-C	-5.07	1.46	1.52
1	jd	51	ASP	C-O	-5.07	1.18	1.24
1	jz	183	ASN	CA-C	5.07	1.59	1.52
1	k1	174	ALA	CA-C	5.07	1.59	1.52
1	k6	139	ASN	CA-C	5.07	1.59	1.52
1	20	213	GLU	CA-CB	5.07	1.61	1.53
1	kF	95	GLN	CA-C	-5.07	1.46	1.52
1	kK	130	TYR	CG-CD2	5.07	1.50	1.39
1	kQ	213	GLU	C-N	5.07	1.40	1.33
1	lg	100	ARG	CA-C	5.07	1.59	1.52
1	28	217	ALA	C-N	5.07	1.41	1.33
1	lt	69	LEU	CA-C	-5.07	1.46	1.52
1	lG	223	GLY	N-CA	5.07	1.51	1.44
1	lM	162	ARG	N-CA	5.07	1.52	1.46
1	2e	98	GLU	CA-CB	5.07	1.61	1.53
1	2i	154	ARG	CA-CB	5.07	1.62	1.53
1	2s	16	SER	C-N	5.07	1.41	1.33
1	2A	18	ARG	C-N	5.07	1.40	1.33
1	2B	30	LYS	CA-CB	5.07	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2J	138	LEU	N-CA	5.07	1.52	1.46
1	2O	102	SER	C-N	5.07	1.40	1.33
1	2X	36	VAL	CA-CB	-5.07	1.47	1.54
1	2Y	41	SER	CA-C	5.07	1.59	1.52
1	37	154	ARG	C-N	5.07	1.40	1.33
1	3a	75	GLU	CA-C	5.07	1.59	1.52
1	3g	139	ASN	CA-CB	5.07	1.61	1.53
1	3h	205	LEU	CA-CB	5.07	1.61	1.53
1	3j	167	ARG	CD-NE	5.07	1.53	1.46
1	3O	28	GLU	CA-CB	5.07	1.61	1.53
1	45	26	VAL	CA-C	-5.07	1.46	1.52
1	4f	164	TYR	N-CA	-5.07	1.40	1.46
1	4p	69	LEU	C-O	-5.07	1.18	1.24
1	4r	50	GLN	C-N	5.07	1.40	1.33
1	4x	2	ILE	CA-CB	5.07	1.61	1.54
1	56	1	PRO	CA-C	-5.07	1.42	1.52
1	58	172	LEU	CA-C	5.07	1.59	1.52
1	5e	116	GLY	N-CA	5.07	1.52	1.45
1	5g	12	HIS	CA-C	5.07	1.59	1.52
1	5i	151	LEU	N-CA	5.07	1.52	1.46
1	5k	46	GLY	CA-C	-5.07	1.44	1.51
1	5o	41	SER	C-N	5.07	1.40	1.33
1	63	12	HIS	CA-C	-5.07	1.46	1.52
1	6f	27	VAL	C-N	5.07	1.40	1.33
1	6o	55	MET	CA-C	5.07	1.59	1.52
1	6X	105	ALA	CA-C	5.07	1.59	1.52
1	6Y	12	HIS	CE1-NE2	-5.07	1.27	1.32
1	70	191	VAL	CA-C	5.07	1.60	1.53
1	7a	45	GLU	N-CA	-5.07	1.39	1.46
1	7x	192	GLN	CA-CB	5.07	1.61	1.53
1	7x	219	GLN	C-N	5.07	1.40	1.33
1	82	156	GLY	CA-C	-5.07	1.44	1.51
1	83	72	THR	N-CA	5.07	1.52	1.46
1	8l	221	VAL	CA-C	-5.07	1.46	1.52
1	8w	12	HIS	CA-C	5.07	1.59	1.52
1	8C	26	VAL	C-N	5.07	1.40	1.33
1	8G	67	GLN	C-O	-5.07	1.17	1.24
1	8Y	23	TRP	CA-C	5.07	1.59	1.52
1	94	146	SER	CA-C	5.07	1.59	1.52
1	98	87	HIS	C-N	5.07	1.40	1.33
1	9d	168	PHE	CA-CB	5.07	1.61	1.53
1	9j	12	HIS	CD2-NE2	5.07	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9o	119	THR	C-N	5.07	1.40	1.33
1	9v	24	VAL	CA-CB	-5.07	1.48	1.54
1	9w	173	ARG	CA-CB	5.07	1.61	1.53
1	Y	49	PRO	N-CA	-5.07	1.40	1.47
1	ag	187	GLU	CA-CB	5.07	1.61	1.53
1	11	48	THR	CB-OG1	-5.07	1.35	1.43
1	ar	49	PRO	C-N	5.07	1.40	1.33
1	13	49	PRO	CA-C	5.07	1.59	1.52
1	aG	205	LEU	CA-CB	5.07	1.61	1.53
1	aI	133	TRP	CA-CB	5.07	1.61	1.53
1	aP	133	TRP	CA-CB	5.07	1.61	1.53
1	aT	41	SER	C-N	-5.07	1.27	1.33
1	bp	172	LEU	CA-C	5.07	1.59	1.52
1	18	107	THR	C-N	5.07	1.40	1.33
1	bz	189	LEU	N-CA	5.07	1.52	1.46
1	bA	29	GLU	N-CA	5.07	1.52	1.46
1	bO	37	ILE	CA-CB	-5.07	1.50	1.53
1	bQ	91	ILE	CA-CB	5.07	1.59	1.54
1	cc	82	ARG	NE-CZ	5.07	1.38	1.33
1	cp	162	ARG	CA-CB	5.07	1.61	1.53
1	cy	211	LEU	C-N	5.07	1.40	1.33
1	cz	51	ASP	C-N	5.07	1.40	1.33
1	cC	176	GLN	C-N	5.07	1.40	1.33
1	cE	175	GLU	CA-CB	5.07	1.61	1.53
1	1g	102	SER	CA-C	5.07	1.59	1.52
1	cK	62	HIS	CA-CB	-5.07	1.46	1.53
1	cR	165	VAL	C-N	5.07	1.40	1.33
1	df	14	ALA	C-N	5.07	1.40	1.33
1	dH	105	ALA	CA-C	5.07	1.59	1.52
1	dO	129	ILE	CA-CB	5.07	1.60	1.54
1	1n	98	GLU	CA-C	5.07	1.58	1.52
1	1n	161	PHE	C-N	5.07	1.40	1.33
1	ed	62	HIS	CE1-NE2	5.07	1.37	1.32
1	eH	222	GLY	N-CA	5.07	1.52	1.45
1	eI	202	LEU	C-O	5.07	1.30	1.24
1	eJ	24	VAL	CA-C	5.07	1.59	1.52
1	eP	230	VAL	CA-C	-5.07	1.46	1.52
1	f6	147	PRO	C-N	5.07	1.39	1.33
1	1v	20	LEU	C-N	-5.07	1.27	1.33
1	fl	107	THR	CA-C	5.07	1.58	1.53
1	c	78	ALA	CA-C	-5.07	1.45	1.52
1	o	59	VAL	N-CA	5.07	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	o	95	GLN	CA-C	-5.07	1.46	1.52
1	u	99	PRO	C-N	5.07	1.40	1.33
1	y	230	VAL	CA-C	5.07	1.58	1.52
1	g8	162	ARG	NE-CZ	-5.06	1.27	1.33
1	gt	121	ASN	CA-C	-5.06	1.48	1.52
1	gE	48	THR	CA-CB	5.06	1.60	1.53
1	hh	40	PHE	N-CA	5.06	1.52	1.46
1	hv	157	PRO	CA-C	5.06	1.59	1.52
1	hv	224	PRO	CA-C	-5.06	1.46	1.52
1	hO	221	VAL	C-N	5.06	1.40	1.33
1	i5	38	PRO	N-CD	5.06	1.54	1.47
1	j3	153	ILE	C-N	5.06	1.40	1.33
1	jm	190	LEU	C-N	5.06	1.40	1.33
1	jV	204	ALA	N-CA	5.06	1.52	1.46
1	k9	230	VAL	CA-CB	-5.06	1.49	1.54
1	kx	226	HIS	CG-ND1	-5.06	1.32	1.38
1	kJ	216	THR	CA-CB	5.06	1.61	1.53
1	lf	120	HIS	ND1-CE1	5.06	1.37	1.32
1	li	15	ILE	CA-CB	-5.06	1.48	1.54
1	2i	227	LYS	CA-C	5.06	1.59	1.53
1	2R	161	PHE	CA-CB	5.06	1.61	1.53
1	35	48	THR	CB-OG1	-5.06	1.35	1.43
1	3l	149	SER	C-N	5.06	1.40	1.33
1	4f	99	PRO	CA-CB	5.06	1.60	1.53
1	4v	12	HIS	ND1-CE1	5.06	1.37	1.32
1	4W	170	LYS	C-N	-5.06	1.27	1.33
1	5z	30	LYS	C-O	5.06	1.31	1.24
1	5z	135	ILE	CA-C	-5.06	1.46	1.52
1	5C	2	ILE	CA-C	5.06	1.58	1.52
1	5O	143	ARG	C-O	-5.06	1.18	1.24
1	5P	22	ALA	CA-CB	5.06	1.61	1.53
1	78	98	GLU	CA-C	5.06	1.58	1.52
1	7e	70	LYS	N-CA	5.06	1.52	1.46
1	84	14	ALA	CA-C	5.06	1.59	1.52
1	84	95	GLN	C-N	5.06	1.40	1.33
1	8t	80	TRP	CA-C	-5.06	1.46	1.52
1	9T	220	GLY	C-N	5.06	1.39	1.33
1	9W	10	MET	C-N	5.06	1.40	1.33
1	aO	129	ILE	CA-C	-5.06	1.46	1.52
1	b8	81	ASP	CA-C	-5.06	1.45	1.52
1	bn	130	TYR	CA-C	-5.06	1.46	1.52
1	bt	178	SER	C-N	5.06	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bJ	158	LYS	CA-C	5.06	1.60	1.52
1	1a	60	GLY	C-N	5.06	1.40	1.33
1	bU	84	HIS	C-N	5.06	1.40	1.33
1	c7	120	HIS	CA-C	5.06	1.60	1.53
1	cK	121	ASN	N-CA	5.06	1.54	1.45
1	cK	158	LYS	C-N	5.06	1.40	1.33
1	dz	186	THR	CA-CB	5.06	1.61	1.53
1	dM	66	MET	N-CA	-5.06	1.39	1.46
1	dP	47	ALA	C-O	-5.06	1.17	1.23
1	eb	76	GLU	CA-C	-5.06	1.46	1.52
1	fe	168	PHE	N-CA	-5.06	1.40	1.46
1	fn	41	SER	C-O	-5.06	1.18	1.24
1	fz	176	GLN	CA-C	-5.06	1.46	1.52
1	fT	107	THR	CA-CB	-5.06	1.45	1.53
1	fU	130	TYR	C-N	5.06	1.40	1.33
1	0	13	GLN	N-CA	5.06	1.52	1.45
1	f	143	ARG	CA-C	5.06	1.59	1.52
1	i	25	LYS	C-N	5.06	1.40	1.33
1	Q	68	MET	SD-CE	5.06	1.92	1.79
1	gf	165	VAL	CA-C	-5.06	1.46	1.52
1	1C	78	ALA	CA-C	5.06	1.59	1.52
1	gB	213	GLU	C-N	5.06	1.40	1.33
1	1E	135	ILE	CA-C	5.06	1.59	1.52
1	gK	130	TYR	C-O	-5.06	1.18	1.24
1	h4	18	ARG	N-CA	-5.06	1.40	1.46
1	h8	5	ASN	CA-CB	5.06	1.61	1.53
1	hb	153	ILE	C-N	5.06	1.41	1.33
1	hi	146	SER	CA-CB	5.06	1.60	1.53
1	hp	6	LEU	N-CA	5.06	1.52	1.46
1	ic	230	VAL	CA-C	5.06	1.59	1.52
1	iU	125	PRO	CA-C	-5.06	1.48	1.53
1	jb	201	ILE	CA-C	-5.06	1.46	1.52
1	jl	63	GLN	CD-NE2	5.06	1.43	1.33
1	jl	165	VAL	C-O	-5.06	1.18	1.24
1	jp	150	ILE	N-CA	5.06	1.52	1.46
1	jw	126	VAL	C-N	5.06	1.40	1.33
1	jL	153	ILE	CA-C	5.06	1.58	1.52
1	kq	85	PRO	N-CD	5.06	1.54	1.47
1	22	67	GLN	CA-CB	5.06	1.61	1.53
1	23	165	VAL	N-CA	-5.06	1.40	1.46
1	lm	16	SER	C-O	5.06	1.30	1.23
1	lo	43	LEU	CA-CB	5.06	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lu	55	MET	N-CA	5.06	1.52	1.46
1	lx	184	TRP	CA-C	5.06	1.59	1.52
1	lA	150	ILE	CA-CB	5.06	1.61	1.54
1	lH	91	ILE	CA-CB	-5.06	1.46	1.53
1	2e	57	ASN	N-CA	-5.06	1.39	1.46
1	2A	85	PRO	N-CD	-5.06	1.40	1.47
1	2P	136	LEU	N-CA	-5.06	1.40	1.46
1	3c	132	ARG	C-N	5.06	1.40	1.33
1	3f	42	ALA	CA-C	5.06	1.59	1.52
1	3m	97	ARG	C-N	5.06	1.41	1.33
1	3m	223	GLY	CA-C	5.06	1.59	1.51
1	3Q	154	ARG	CZ-NH2	-5.06	1.26	1.33
1	3Q	174	ALA	N-CA	5.06	1.52	1.46
1	4d	145	TYR	CA-CB	5.06	1.62	1.53
1	4f	73	ILE	C-O	-5.06	1.18	1.24
1	4g	79	GLU	C-N	5.06	1.40	1.33
1	4h	39	MET	N-CA	5.06	1.52	1.46
1	4l	8	GLY	N-CA	5.06	1.52	1.45
1	4o	184	TRP	C-N	5.06	1.40	1.33
1	4p	156	GLY	C-O	-5.06	1.17	1.24
1	4t	66	MET	CA-CB	5.06	1.61	1.53
1	4t	228	ALA	C-N	5.06	1.40	1.33
1	4D	49	PRO	N-CA	5.06	1.53	1.47
1	5o	93	PRO	C-N	5.06	1.40	1.33
1	5q	207	PRO	N-CA	-5.06	1.41	1.47
1	5s	74	ASN	C-N	5.06	1.40	1.33
1	5A	36	VAL	CA-CB	-5.06	1.47	1.54
1	5B	71	GLU	CA-C	5.06	1.59	1.52
1	5R	139	ASN	N-CA	-5.06	1.40	1.46
1	64	181	VAL	CA-C	5.06	1.59	1.52
1	67	154	ARG	CD-NE	5.06	1.53	1.46
1	6n	101	GLY	CA-C	-5.06	1.46	1.51
1	6K	131	LYS	CA-CB	5.06	1.61	1.53
1	6O	211	LEU	C-N	5.06	1.40	1.33
1	6U	59	VAL	CA-CB	5.06	1.59	1.53
1	6V	70	LYS	CA-CB	5.06	1.61	1.53
1	78	130	TYR	CA-C	5.06	1.59	1.52
1	7e	104	ILE	C-N	5.06	1.40	1.33
1	7u	112	GLN	N-CA	5.06	1.52	1.46
1	7z	11	VAL	CA-C	-5.06	1.46	1.52
1	7B	23	TRP	C-N	5.06	1.40	1.33
1	7C	87	HIS	CB-CG	5.06	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7C	202	LEU	N-CA	-5.06	1.40	1.46
1	8f	58	THR	CA-C	-5.06	1.46	1.52
1	8s	183	ASN	C-N	5.06	1.40	1.33
1	8v	180	GLU	C-N	5.06	1.40	1.33
1	8F	54	THR	CA-C	-5.06	1.46	1.52
1	8O	73	ILE	C-N	5.06	1.40	1.33
1	8R	80	TRP	CA-CB	5.06	1.61	1.53
1	8R	205	LEU	CA-CB	5.06	1.61	1.53
1	8T	59	VAL	CA-C	5.06	1.58	1.52
1	9d	1	PRO	N-CA	5.06	1.54	1.47
1	9e	27	VAL	CA-CB	-5.06	1.48	1.54
1	9e	56	LEU	CA-C	5.06	1.59	1.52
1	9f	88	ALA	CA-CB	5.06	1.61	1.53
1	9r	201	ILE	CA-C	5.06	1.58	1.52
1	a2	72	THR	C-N	5.06	1.40	1.33
1	a5	13	GLN	N-CA	-5.06	1.39	1.46
1	ac	179	GLN	N-CA	-5.06	1.39	1.46
1	ap	154	ARG	N-CA	-5.06	1.39	1.46
1	aU	107	THR	CA-C	-5.06	1.46	1.52
1	b7	97	ARG	NE-CZ	-5.06	1.27	1.33
1	b7	124	ILE	N-CA	5.06	1.51	1.46
1	b8	85	PRO	C-O	-5.06	1.17	1.24
1	17	111	LEU	C-N	5.06	1.40	1.33
1	bo	105	ALA	C-N	5.06	1.39	1.33
1	bu	100	ARG	NE-CZ	-5.06	1.27	1.33
1	bA	10	MET	N-CA	-5.06	1.40	1.46
1	bR	155	GLN	CA-C	5.06	1.59	1.52
1	bX	98	GLU	C-N	5.06	1.40	1.33
1	cd	2	ILE	CB-CG1	5.06	1.63	1.53
1	cp	120	HIS	CG-CD2	5.06	1.41	1.35
1	cz	76	GLU	C-N	5.06	1.40	1.33
1	cM	45	GLU	C-N	5.06	1.40	1.33
1	cQ	136	LEU	C-N	5.06	1.40	1.33
1	cX	139	ASN	CA-CB	5.06	1.61	1.53
1	d1	191	VAL	N-CA	-5.06	1.40	1.46
1	de	160	PRO	N-CA	-5.06	1.41	1.47
1	dy	164	TYR	CA-C	-5.06	1.46	1.52
1	dS	38	PRO	N-CA	-5.06	1.41	1.47
1	dW	190	LEU	N-CA	-5.06	1.40	1.46
1	e1	187	GLU	N-CA	-5.06	1.40	1.46
1	1q	79	GLU	C-N	5.06	1.40	1.33
1	1q	135	ILE	CA-CB	-5.06	1.47	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ep	58	THR	N-CA	5.06	1.52	1.46
1	er	164	TYR	C-N	-5.06	1.27	1.33
1	eu	226	HIS	ND1-CE1	5.06	1.37	1.32
1	eQ	145	TYR	CA-C	-5.06	1.45	1.52
1	eX	176	GLN	N-CA	-5.06	1.40	1.46
1	fh	97	ARG	C-N	5.06	1.41	1.33
1	fo	72	THR	CA-CB	-5.06	1.45	1.53
1	fH	164	TYR	C-N	5.06	1.40	1.34
1	fI	140	LYS	C-N	5.06	1.40	1.33
1	fU	143	ARG	C-N	5.06	1.41	1.34
1	g5	14	ALA	CA-CB	5.06	1.59	1.53
1	d	106	GLY	CA-C	-5.06	1.44	1.51
1	i	188	THR	C-N	5.06	1.40	1.34
1	m	87	HIS	ND1-CE1	5.06	1.37	1.32
1	q	15	ILE	CA-C	5.06	1.58	1.52
1	M	86	VAL	CA-CB	-5.06	1.47	1.54
1	gi	169	TYR	CA-C	5.06	1.59	1.52
1	1D	100	ARG	CD-NE	5.06	1.53	1.46
1	gU	142	VAL	C-O	-5.06	1.18	1.24
1	hk	147	PRO	N-CA	-5.06	1.41	1.47
1	hE	116	GLY	N-CA	5.06	1.52	1.45
1	hE	173	ARG	CD-NE	5.06	1.53	1.46
1	hK	199	LYS	N-CA	5.06	1.52	1.46
1	1M	197	ASP	CA-CB	5.06	1.61	1.53
1	in	221	VAL	CA-C	5.06	1.60	1.52
1	iF	71	GLU	CA-CB	5.06	1.61	1.53
1	iG	124	ILE	CA-C	5.06	1.58	1.52
1	iO	178	SER	CA-CB	5.06	1.60	1.53
1	j2	197	ASP	CA-C	5.06	1.59	1.52
1	j5	16	SER	CA-C	5.06	1.58	1.52
1	k2	132	ARG	CZ-NH2	-5.06	1.26	1.33
1	k6	84	HIS	ND1-CE1	5.06	1.37	1.32
1	kn	229	ARG	CD-NE	5.06	1.53	1.46
1	kz	152	ASP	CA-C	5.06	1.59	1.52
1	kZ	218	CYS	C-O	-5.06	1.17	1.24
1	l1	40	PHE	N-CA	-5.06	1.40	1.46
1	lj	123	PRO	CA-C	5.06	1.59	1.52
1	lr	181	VAL	N-CA	5.06	1.52	1.46
1	lC	96	MET	CA-CB	5.06	1.59	1.53
1	lQ	16	SER	C-N	5.06	1.40	1.34
1	2l	116	GLY	CA-C	-5.06	1.46	1.52
1	2v	5	ASN	N-CA	5.06	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2x	74	ASN	CA-C	5.06	1.59	1.52
1	2E	26	VAL	C-N	5.06	1.40	1.33
1	2N	120	HIS	ND1-CE1	5.06	1.37	1.32
1	3S	79	GLU	N-CA	-5.06	1.40	1.46
1	4f	40	PHE	C-N	5.06	1.40	1.33
1	4t	177	ALA	CA-C	-5.06	1.46	1.52
1	4X	4	GLN	C-N	5.06	1.40	1.33
1	54	162	ARG	CA-CB	5.06	1.61	1.53
1	5d	34	PRO	C-N	5.06	1.40	1.33
1	5P	208	ALA	CA-CB	5.06	1.61	1.53
1	5Q	133	TRP	N-CA	5.06	1.52	1.46
1	63	111	LEU	C-N	5.06	1.40	1.33
1	80	162	ARG	CA-C	-5.06	1.46	1.52
1	8k	83	LEU	CA-C	-5.06	1.46	1.52
1	8t	68	MET	CA-C	5.06	1.59	1.52
1	8N	84	HIS	CG-ND1	-5.06	1.32	1.38
1	95	166	ASP	N-CA	5.06	1.52	1.46
1	9s	29	GLU	N-CA	-5.06	1.40	1.46
1	9H	148	THR	C-N	5.06	1.40	1.33
1	9J	183	ASN	C-N	5.06	1.40	1.33
1	9M	135	ILE	N-CA	5.06	1.52	1.46
1	9R	156	GLY	C-N	-5.06	1.27	1.33
1	9U	146	SER	N-CA	-5.06	1.40	1.46
1	a4	210	THR	C-O	-5.06	1.17	1.23
1	ag	18	ARG	N-CA	-5.06	1.40	1.46
1	bd	205	LEU	CA-CB	5.06	1.61	1.53
1	18	113	GLU	CA-C	5.06	1.59	1.52
1	bz	52	LEU	C-N	5.06	1.40	1.33
1	bP	78	ALA	C-N	5.06	1.40	1.33
1	bW	139	ASN	CA-CB	5.06	1.61	1.53
1	bZ	19	THR	C-N	5.06	1.40	1.33
1	c4	48	THR	C-O	-5.06	1.17	1.23
1	ca	114	GLN	N-CA	5.06	1.52	1.46
1	ce	74	ASN	N-CA	5.06	1.52	1.46
1	cf	37	ILE	CA-CB	-5.06	1.51	1.54
1	ck	84	HIS	CE1-NE2	5.06	1.37	1.32
1	cF	229	ARG	C-N	5.06	1.39	1.33
1	cH	37	ILE	C-O	-5.06	1.20	1.24
1	cO	132	ARG	N-CA	5.06	1.52	1.46
1	cY	128	GLU	C-N	5.06	1.40	1.33
1	dq	104	ILE	C-O	-5.06	1.18	1.24
1	dr	153	ILE	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	e1	68	MET	C-O	-5.06	1.18	1.24
1	e4	107	THR	CA-C	-5.06	1.46	1.52
1	ee	121	ASN	CA-CB	5.06	1.61	1.53
1	eM	98	GLU	C-O	5.06	1.30	1.24
1	fN	135	ILE	CA-C	-5.06	1.46	1.52
1	g	214	MET	C-O	-5.06	1.18	1.24
1	1	2	ILE	N-CA	5.06	1.51	1.46
1	gd	167	ARG	CA-CB	5.06	1.61	1.53
1	gp	133	TRP	C-N	5.06	1.40	1.33
1	gw	55	MET	CG-SD	5.06	1.93	1.80
1	gN	186	THR	N-CA	5.06	1.52	1.46
1	gO	60	GLY	N-CA	5.06	1.52	1.45
1	hh	106	GLY	N-CA	5.06	1.52	1.45
1	hD	51	ASP	C-O	-5.06	1.18	1.24
1	1L	138	LEU	N-CA	5.06	1.52	1.46
1	hU	180	GLU	C-N	5.06	1.40	1.33
1	i6	95	GLN	C-N	5.06	1.40	1.33
1	i7	173	ARG	CD-NE	5.06	1.53	1.46
1	ih	186	THR	C-N	5.06	1.40	1.33
1	iC	95	GLN	CG-CD	5.06	1.64	1.52
1	j1	197	ASP	C-N	5.06	1.40	1.33
1	j7	77	ALA	C-N	5.06	1.40	1.33
1	j9	13	GLN	CA-CB	5.06	1.62	1.53
1	jz	63	GLN	C-N	5.06	1.40	1.33
1	jH	224	PRO	N-CD	5.06	1.54	1.47
1	1Y	26	VAL	N-CA	5.06	1.52	1.46
1	jQ	28	GLU	N-CA	-5.06	1.40	1.46
1	jR	3	VAL	N-CA	-5.06	1.40	1.46
1	kg	26	VAL	N-CA	5.06	1.52	1.46
1	kn	64	ALA	CA-CB	5.06	1.61	1.53
1	kq	85	PRO	N-CA	5.06	1.53	1.47
1	ku	196	PRO	CA-CB	-5.06	1.46	1.53
1	kz	23	TRP	CZ2-CH2	5.06	1.46	1.37
1	kz	70	LYS	CA-CB	5.06	1.61	1.53
1	kM	169	TYR	N-CA	5.06	1.52	1.46
1	27	101	GLY	N-CA	5.06	1.52	1.45
1	lm	78	ALA	CA-CB	-5.06	1.45	1.53
1	29	153	ILE	C-N	5.06	1.41	1.33
1	lC	133	TRP	N-CA	-5.06	1.40	1.46
1	lC	176	GLN	C-N	5.06	1.39	1.33
1	lH	187	GLU	C-N	5.06	1.40	1.33
1	2f	97	ARG	CA-CB	5.06	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2g	82	ARG	NE-CZ	5.06	1.38	1.33
1	2t	88	ALA	CA-CB	5.06	1.61	1.53
1	2D	105	ALA	CA-CB	5.06	1.62	1.53
1	2F	9	GLN	C-O	-5.06	1.18	1.23
1	2H	62	HIS	ND1-CE1	-5.06	1.27	1.32
1	2I	130	TYR	CA-CB	5.06	1.61	1.53
1	2L	181	VAL	CA-CB	-5.06	1.47	1.54
1	2Y	112	GLN	CA-C	5.06	1.59	1.52
1	36	21	ASN	CA-CB	5.06	1.61	1.53
1	39	20	LEU	C-O	-5.06	1.17	1.24
1	3h	13	GLN	CA-CB	5.06	1.61	1.53
1	3p	188	THR	C-O	-5.06	1.17	1.24
1	3F	165	VAL	C-O	5.06	1.30	1.24
1	3G	162	ARG	CD-NE	5.06	1.53	1.46
1	3M	204	ALA	N-CA	-5.06	1.40	1.46
1	3N	120	HIS	CB-CG	5.06	1.57	1.50
1	3P	230	VAL	CA-C	5.06	1.58	1.52
1	3S	155	GLN	CA-CB	5.06	1.61	1.53
1	3T	125	PRO	N-CD	5.06	1.54	1.47
1	43	66	MET	C-O	5.06	1.29	1.24
1	47	71	GLU	N-CA	5.06	1.52	1.46
1	4k	88	ALA	N-CA	-5.06	1.40	1.46
1	4r	50	GLN	CA-C	5.06	1.59	1.52
1	4t	153	ILE	N-CA	-5.06	1.40	1.46
1	4x	115	ILE	C-O	-5.06	1.18	1.24
1	4O	219	GLN	CA-C	-5.06	1.46	1.52
1	5a	148	THR	N-CA	5.06	1.52	1.46
1	5c	38	PRO	CA-CB	-5.06	1.46	1.53
1	5e	163	ASP	CA-C	5.06	1.59	1.52
1	5m	34	PRO	N-CD	-5.06	1.40	1.47
1	62	161	PHE	CB-CG	-5.06	1.39	1.50
1	68	139	ASN	C-N	5.06	1.41	1.34
1	6t	158	LYS	C-N	5.06	1.40	1.33
1	6C	33	SER	C-N	-5.06	1.29	1.34
1	6I	143	ARG	N-CA	5.06	1.52	1.46
1	6J	87	HIS	N-CA	5.06	1.52	1.46
1	6W	62	HIS	CB-CG	5.06	1.57	1.50
1	76	55	MET	CA-CB	5.06	1.61	1.53
1	7e	55	MET	N-CA	5.06	1.52	1.46
1	7p	6	LEU	N-CA	5.06	1.52	1.46
1	7q	121	ASN	CA-C	-5.06	1.45	1.52
1	88	118	MET	C-N	5.06	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8c	96	MET	CA-C	5.06	1.58	1.52
1	8m	150	ILE	N-CA	-5.06	1.40	1.46
1	8F	189	LEU	CA-CB	5.06	1.61	1.53
1	8W	85	PRO	N-CD	-5.06	1.40	1.47
1	98	182	LYS	CA-CB	5.06	1.61	1.53
1	9a	162	ARG	CD-NE	5.06	1.53	1.46
1	9w	35	GLU	CA-CB	-5.06	1.44	1.53
1	a0	12	HIS	CA-CB	5.06	1.61	1.53
1	a1	124	ILE	N-CA	5.06	1.52	1.46
1	aj	107	THR	CA-C	5.06	1.59	1.52
1	aI	44	SER	N-CA	5.06	1.52	1.46
1	aV	124	ILE	N-CA	5.06	1.50	1.46
1	aV	162	ARG	N-CA	-5.06	1.40	1.46
1	b8	118	MET	CG-SD	5.06	1.93	1.80
1	bn	212	GLU	CA-C	-5.06	1.46	1.52
1	bF	131	LYS	CA-C	-5.06	1.46	1.52
1	bQ	136	LEU	C-N	5.06	1.40	1.33
1	c1	130	TYR	CA-CB	5.06	1.61	1.53
1	cp	185	MET	C-N	5.06	1.40	1.33
1	cD	226	HIS	C-N	-5.06	1.26	1.33
1	1g	199	LYS	CA-C	5.06	1.59	1.52
1	1g	213	GLU	N-CA	-5.06	1.40	1.46
1	cM	13	GLN	C-N	5.06	1.40	1.33
1	cO	168	PHE	C-N	5.06	1.40	1.33
1	cP	180	GLU	CA-C	-5.06	1.46	1.52
1	d7	9	GLN	N-CA	-5.06	1.39	1.46
1	da	143	ARG	NE-CZ	-5.06	1.27	1.33
1	do	7	GLN	CA-CB	5.06	1.61	1.53
1	ds	84	HIS	ND1-CE1	5.06	1.37	1.32
1	dv	116	GLY	CA-C	-5.06	1.46	1.52
1	dG	103	ASP	CA-CB	5.06	1.61	1.53
1	dO	106	GLY	CA-C	5.06	1.58	1.51
1	dW	70	LYS	CA-C	5.06	1.59	1.52
1	e3	195	ASN	CA-CB	5.06	1.60	1.53
1	e9	113	GLU	C-N	5.06	1.40	1.33
1	eq	93	PRO	CA-CB	-5.06	1.46	1.53
1	eq	223	GLY	C-O	-5.06	1.17	1.24
1	et	27	VAL	CA-C	-5.06	1.46	1.52
1	eI	71	GLU	CA-CB	5.06	1.61	1.53
1	eP	168	PHE	C-O	-5.06	1.18	1.24
1	1t	13	GLN	CA-C	-5.06	1.46	1.53
1	fm	82	ARG	N-CA	-5.06	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fn	151	LEU	CA-CB	5.06	1.62	1.53
1	fq	87	HIS	N-CA	-5.06	1.39	1.46
1	fw	125	PRO	CA-C	-5.06	1.48	1.53
1	fy	143	ARG	C-N	5.06	1.40	1.33
1	fz	120	HIS	N-CA	5.06	1.52	1.45
1	fG	14	ALA	C-N	5.06	1.40	1.33
1	g0	10	MET	CA-CB	5.06	1.60	1.53
1	a	187	GLU	N-CA	-5.06	1.40	1.46
1	e	44	SER	C-N	5.06	1.40	1.33
1	D	50	GLN	C-N	5.06	1.40	1.33
1	G	69	LEU	CA-C	-5.06	1.46	1.52
1	W	18	ARG	C-O	-5.06	1.18	1.24
1	gn	138	LEU	N-CA	5.06	1.52	1.46
1	h1	12	HIS	N-CA	-5.06	1.39	1.46
1	h5	209	ALA	CA-C	-5.06	1.46	1.52
1	h6	40	PHE	N-CA	-5.06	1.39	1.46
1	hd	13	GLN	CA-CB	5.06	1.66	1.53
1	ht	11	VAL	CA-CB	-5.06	1.48	1.54
1	hx	62	HIS	CA-CB	5.06	1.61	1.53
1	hx	169	TYR	CA-C	-5.06	1.45	1.52
1	i4	76	GLU	CA-CB	5.06	1.61	1.53
1	ie	146	SER	CA-C	-5.06	1.47	1.52
1	ig	87	HIS	CA-CB	5.06	1.62	1.53
1	ig	212	GLU	C-O	-5.06	1.18	1.24
1	ik	218	CYS	CA-C	5.06	1.59	1.52
1	iV	8	GLY	C-N	5.06	1.40	1.33
1	iW	42	ALA	C-O	5.06	1.29	1.24
1	iX	197	ASP	CA-CB	5.06	1.61	1.53
1	j0	38	PRO	N-CA	-5.06	1.41	1.47
1	j0	199	LYS	CA-C	-5.06	1.46	1.52
1	j7	194	ALA	C-O	-5.06	1.17	1.23
1	jh	15	ILE	CA-C	5.06	1.58	1.52
1	jq	5	ASN	CA-CB	5.06	1.61	1.53
1	jD	62	HIS	CE1-NE2	5.06	1.37	1.32
1	k5	187	GLU	CA-CB	5.06	1.61	1.53
1	ks	99	PRO	CA-C	-5.06	1.46	1.52
1	ky	88	ALA	CA-C	-5.06	1.46	1.52
1	kB	200	THR	C-O	-5.06	1.18	1.24
1	kC	110	THR	CA-C	5.06	1.58	1.52
1	kH	98	GLU	CA-C	5.06	1.59	1.52
1	kI	153	ILE	C-N	5.06	1.40	1.33
1	kN	56	LEU	CA-C	5.06	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kO	19	THR	CA-CB	5.06	1.61	1.53
1	kW	70	LYS	C-N	5.06	1.40	1.33
1	lp	54	THR	CA-C	-5.06	1.46	1.52
1	lq	45	GLU	N-CA	5.06	1.52	1.46
1	lO	123	PRO	CA-CB	-5.06	1.47	1.53
1	2r	31	ALA	CA-C	-5.06	1.46	1.52
1	2x	21	ASN	CA-CB	5.06	1.61	1.53
1	2R	2	ILE	N-CA	-5.06	1.40	1.46
1	2V	136	LEU	C-N	5.06	1.40	1.33
1	3v	48	THR	CA-CB	5.06	1.60	1.53
1	3z	178	SER	CA-CB	5.06	1.60	1.53
1	3B	120	HIS	CD2-NE2	5.06	1.43	1.37
1	4f	180	GLU	CA-CB	5.06	1.61	1.53
1	4j	23	TRP	CA-CB	5.06	1.61	1.53
1	4v	95	GLN	CA-C	-5.06	1.46	1.52
1	4Z	25	LYS	N-CA	5.06	1.52	1.46
1	5h	44	SER	N-CA	-5.06	1.39	1.46
1	5j	211	LEU	CA-CB	5.06	1.61	1.53
1	5l	191	VAL	CA-CB	-5.06	1.47	1.54
1	5n	162	ARG	CA-C	-5.06	1.46	1.52
1	5q	112	GLN	C-O	-5.06	1.17	1.24
1	5x	146	SER	CA-CB	5.06	1.61	1.53
1	5A	46	GLY	CA-C	-5.06	1.44	1.51
1	5D	132	ARG	CZ-NH2	-5.06	1.26	1.33
1	5M	230	VAL	CA-C	5.06	1.58	1.52
1	5P	99	PRO	N-CD	-5.06	1.40	1.47
1	5U	73	ILE	CA-CB	-5.06	1.48	1.54
1	68	172	LEU	CA-CB	5.06	1.62	1.53
1	69	172	LEU	N-CA	5.06	1.52	1.46
1	6a	100	ARG	CA-C	5.06	1.59	1.53
1	6f	97	ARG	CA-CB	5.06	1.61	1.53
1	6g	211	LEU	C-N	5.06	1.40	1.33
1	6h	2	ILE	CA-C	-5.06	1.46	1.52
1	6h	74	ASN	CA-CB	5.06	1.61	1.53
1	6h	218	CYS	N-CA	5.06	1.52	1.46
1	6i	124	ILE	CA-CB	-5.06	1.48	1.54
1	6j	169	TYR	CA-CB	5.06	1.61	1.53
1	6n	28	GLU	N-CA	-5.06	1.40	1.46
1	6w	207	PRO	CA-C	-5.06	1.44	1.52
1	6E	211	LEU	N-CA	-5.06	1.40	1.46
1	6H	87	HIS	CA-CB	5.06	1.61	1.53
1	6T	6	LEU	CA-CB	5.06	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6Z	28	GLU	CA-C	-5.06	1.46	1.52
1	78	80	TRP	NE1-CE2	-5.06	1.31	1.37
1	7k	46	GLY	N-CA	5.06	1.52	1.45
1	7q	174	ALA	N-CA	-5.06	1.39	1.46
1	83	190	LEU	CA-CB	5.06	1.61	1.53
1	8y	58	THR	C-N	5.06	1.38	1.33
1	8F	179	GLN	CA-C	5.06	1.59	1.52
1	8X	46	GLY	C-O	-5.06	1.17	1.24
1	93	59	VAL	C-N	5.06	1.40	1.33
1	96	186	THR	CA-C	-5.06	1.46	1.52
1	9c	138	LEU	N-CA	5.06	1.52	1.46
1	9m	71	GLU	C-N	5.06	1.40	1.33
1	9B	215	MET	CA-C	5.06	1.59	1.52
1	9D	24	VAL	CA-CB	5.06	1.60	1.54
1	9P	36	VAL	CA-CB	5.06	1.60	1.54
1	9W	41	SER	CA-CB	5.06	1.61	1.53
1	9X	175	GLU	CA-CB	5.06	1.59	1.53
1	a4	138	LEU	C-N	5.06	1.40	1.33
1	ae	195	ASN	CA-C	5.06	1.59	1.53
1	ah	40	PHE	CA-CB	5.06	1.61	1.53
1	ao	18	ARG	CD-NE	5.06	1.53	1.46
1	aD	79	GLU	C-O	-5.06	1.18	1.24
1	bh	116	GLY	CA-C	-5.06	1.46	1.52
1	bi	82	ARG	CD-NE	5.06	1.53	1.46
1	bj	34	PRO	N-CD	5.06	1.54	1.47
1	bj	90	PRO	CA-C	-5.06	1.45	1.52
1	bm	13	GLN	CA-CB	5.06	1.62	1.54
1	bn	92	GLU	CA-C	5.06	1.59	1.52
1	bp	83	LEU	CA-C	-5.06	1.46	1.52
1	bT	197	ASP	C-O	-5.06	1.18	1.24
1	bV	27	VAL	CA-CB	-5.06	1.47	1.54
1	1b	11	VAL	C-O	-5.06	1.19	1.24
1	c7	181	VAL	N-CA	5.06	1.52	1.46
1	cd	6	LEU	C-N	5.06	1.40	1.33
1	cs	226	HIS	CG-CD2	5.06	1.41	1.35
1	cH	127	GLY	N-CA	5.06	1.52	1.45
1	cJ	53	ASN	C-N	5.06	1.40	1.33
1	cP	84	HIS	CG-ND1	-5.06	1.32	1.38
1	cR	16	SER	CA-CB	5.06	1.61	1.53
1	cV	176	GLN	C-N	5.06	1.40	1.33
1	dt	128	GLU	C-N	5.06	1.40	1.33
1	1m	104	ILE	CA-CB	-5.06	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dV	70	LYS	N-CA	-5.06	1.40	1.46
1	et	10	MET	C-N	5.06	1.40	1.33
1	eI	47	ALA	CA-C	5.06	1.58	1.52
1	1t	113	GLU	N-CA	-5.06	1.40	1.46
1	eW	67	GLN	CD-NE2	5.06	1.43	1.33
1	eW	115	ILE	C-N	5.06	1.40	1.33
1	f6	86	VAL	C-N	5.06	1.40	1.33
1	1w	31	ALA	CA-C	5.06	1.59	1.52
1	fn	134	ILE	C-O	-5.06	1.18	1.24
1	fu	118	MET	C-O	-5.06	1.17	1.24
1	fO	98	GLU	CA-CB	5.06	1.61	1.53
1	fX	145	TYR	CB-CG	5.06	1.62	1.51
1	b	74	ASN	C-N	5.06	1.41	1.34
1	c	115	ILE	CA-C	5.06	1.59	1.52
1	d	159	GLU	C-O	-5.06	1.17	1.24
1	q	26	VAL	C-O	-5.06	1.18	1.24
1	I	172	LEU	N-CA	-5.06	1.40	1.46
1	hw	44	SER	CA-C	-5.06	1.44	1.52
1	hz	17	PRO	N-CA	-5.06	1.40	1.47
1	hT	126	VAL	CA-CB	-5.06	1.47	1.54
1	i9	182	LYS	CA-C	-5.06	1.46	1.52
1	io	133	TRP	CZ2-CH2	5.06	1.46	1.37
1	iv	47	ALA	CA-C	-5.06	1.46	1.52
1	iJ	49	PRO	C-O	-5.06	1.18	1.24
1	iL	69	LEU	CA-CB	5.06	1.61	1.53
1	iX	226	HIS	CA-CB	5.06	1.62	1.53
1	j0	79	GLU	C-N	5.06	1.40	1.33
1	jb	221	VAL	C-N	5.06	1.40	1.33
1	jd	12	HIS	CE1-NE2	5.06	1.37	1.32
1	jd	122	PRO	C-N	-5.06	1.27	1.33
1	jJ	81	ASP	CA-CB	5.06	1.61	1.53
1	kc	71	GLU	CA-C	5.06	1.59	1.52
1	kj	126	VAL	CA-CB	-5.06	1.48	1.54
1	kq	97	ARG	CD-NE	5.06	1.53	1.46
1	l3	219	GLN	CA-C	-5.06	1.46	1.52
1	2K	96	MET	C-N	5.06	1.40	1.33
1	3q	125	PRO	N-CD	-5.06	1.40	1.47
1	3L	101	GLY	N-CA	5.06	1.52	1.45
1	4x	43	LEU	C-O	-5.06	1.17	1.24
1	4W	177	ALA	N-CA	5.06	1.52	1.45
1	57	116	GLY	CA-C	5.06	1.57	1.52
1	5i	110	THR	C-N	5.06	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	79	53	ASN	CA-CB	-5.06	1.45	1.53
1	7c	179	GLN	CA-CB	5.06	1.61	1.53
1	7r	152	ASP	CG-OD2	5.06	1.34	1.25
1	7z	16	SER	CA-CB	-5.06	1.46	1.53
1	81	56	LEU	N-CA	5.06	1.52	1.46
1	8x	5	ASN	CA-CB	5.06	1.61	1.53
1	8C	6	LEU	CA-CB	5.06	1.61	1.53
1	9M	92	GLU	CA-C	5.06	1.58	1.52
1	an	87	HIS	CA-C	-5.06	1.46	1.52
1	15	87	HIS	CD2-NE2	5.06	1.43	1.37
1	aZ	132	ARG	CD-NE	5.06	1.53	1.46
1	b7	138	LEU	CA-CB	5.06	1.61	1.53
1	bw	93	PRO	CA-C	5.06	1.59	1.52
1	bX	217	ALA	N-CA	-5.06	1.39	1.45
1	c4	76	GLU	C-N	5.06	1.41	1.34
1	co	195	ASN	CA-CB	5.06	1.62	1.53
1	cz	136	LEU	C-N	5.06	1.40	1.33
1	1j	99	PRO	N-CA	5.06	1.52	1.46
1	dM	175	GLU	CA-CB	5.06	1.59	1.53
1	eI	52	LEU	N-CA	5.06	1.52	1.46
1	eV	37	ILE	CA-C	5.06	1.56	1.52
1	fj	167	ARG	N-CA	5.06	1.52	1.46
1	fJ	44	SER	N-CA	5.06	1.52	1.46
1	fN	82	ARG	C-O	5.06	1.30	1.24
1	g0	120	HIS	CG-CD2	5.06	1.41	1.35
1	t	228	ALA	C-N	5.06	1.40	1.33
1	z	178	SER	CB-OG	5.06	1.52	1.42
1	P	44	SER	C-O	5.06	1.30	1.24
1	gb	2	ILE	N-CA	-5.05	1.40	1.46
1	gd	45	GLU	N-CA	5.05	1.52	1.46
1	gj	38	PRO	CA-CB	5.05	1.60	1.53
1	gl	14	ALA	C-N	5.05	1.40	1.33
1	gl	24	VAL	CA-C	-5.05	1.46	1.52
1	gx	60	GLY	CA-C	-5.05	1.44	1.51
1	gA	170	LYS	CA-C	5.05	1.59	1.52
1	gE	165	VAL	CA-C	5.05	1.59	1.52
1	hA	184	TRP	CA-CB	5.05	1.61	1.53
1	hC	114	GLN	C-O	-5.05	1.18	1.24
1	hC	202	LEU	C-N	5.05	1.40	1.33
1	hD	226	HIS	CA-CB	5.05	1.62	1.53
1	hP	159	GLU	CA-CB	5.05	1.60	1.53
1	hS	63	GLN	CA-C	5.05	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1M	116	GLY	N-CA	5.05	1.52	1.45
1	hY	15	ILE	CA-C	-5.05	1.47	1.52
1	ic	96	MET	C-N	5.05	1.40	1.33
1	id	38	PRO	CA-CB	5.05	1.60	1.53
1	io	169	TYR	CA-CB	-5.05	1.45	1.53
1	ip	22	ALA	C-N	5.05	1.40	1.33
1	it	75	GLU	N-CA	5.05	1.52	1.46
1	ix	198	CYS	CA-C	-5.05	1.46	1.52
1	iO	186	THR	CA-CB	-5.05	1.45	1.53
1	iV	10	MET	N-CA	-5.05	1.39	1.46
1	j1	71	GLU	N-CA	5.05	1.52	1.46
1	jc	126	VAL	CA-CB	-5.05	1.48	1.54
1	jd	137	GLY	CA-C	5.05	1.58	1.52
1	jz	114	GLN	N-CA	-5.05	1.40	1.46
1	1X	122	PRO	N-CD	-5.05	1.40	1.47
1	jR	2	ILE	CA-CB	-5.05	1.47	1.54
1	kh	152	ASP	N-CA	-5.05	1.39	1.46
1	ks	226	HIS	CE1-NE2	5.05	1.37	1.32
1	kB	159	GLU	CA-CB	5.05	1.61	1.52
1	kK	198	CYS	N-CA	5.05	1.52	1.45
1	kL	4	GLN	C-N	5.05	1.41	1.33
1	kR	154	ARG	C-N	5.05	1.40	1.33
1	26	47	ALA	N-CA	5.05	1.52	1.46
1	lf	100	ARG	CA-CB	5.05	1.60	1.53
1	lp	87	HIS	N-CA	-5.05	1.40	1.46
1	lw	209	ALA	CA-C	-5.05	1.46	1.52
1	lG	212	GLU	CA-C	-5.05	1.46	1.52
1	lK	52	LEU	N-CA	-5.05	1.40	1.46
1	lP	99	PRO	N-CA	-5.05	1.41	1.47
1	2d	62	HIS	CG-ND1	5.05	1.43	1.38
1	2e	212	GLU	C-N	5.05	1.40	1.33
1	2g	147	PRO	CA-CB	5.05	1.60	1.53
1	2i	57	ASN	CA-CB	5.05	1.61	1.53
1	2i	61	GLY	N-CA	5.05	1.51	1.45
1	2z	69	LEU	C-O	-5.05	1.18	1.24
1	36	71	GLU	C-O	-5.05	1.17	1.24
1	37	126	VAL	CA-C	5.05	1.59	1.52
1	3t	91	ILE	CA-C	5.05	1.60	1.53
1	3w	17	PRO	CA-CB	5.05	1.60	1.53
1	3z	44	SER	CA-C	5.05	1.59	1.52
1	3B	2	ILE	N-CA	-5.05	1.40	1.46
1	3M	4	GLN	CA-CB	5.05	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	40	208	ALA	CA-C	5.05	1.59	1.52
1	41	121	ASN	CA-C	-5.05	1.48	1.52
1	44	145	TYR	CZ-OH	5.05	1.48	1.38
1	45	123	PRO	C-N	5.05	1.39	1.33
1	45	196	PRO	N-CA	-5.05	1.41	1.47
1	4h	9	GLN	CA-C	5.05	1.59	1.52
1	4j	34	PRO	C-N	-5.05	1.27	1.34
1	4q	227	LYS	CA-C	5.05	1.58	1.52
1	4r	29	GLU	N-CA	5.05	1.52	1.45
1	4L	85	PRO	C-N	5.05	1.39	1.33
1	4P	102	SER	C-N	5.05	1.40	1.33
1	4Z	85	PRO	CA-C	5.05	1.58	1.52
1	53	13	GLN	N-CA	-5.05	1.39	1.45
1	56	214	MET	CA-C	-5.05	1.46	1.52
1	5m	133	TRP	NE1-CE2	-5.05	1.31	1.37
1	5G	7	GLN	CA-CB	5.05	1.61	1.53
1	5P	105	ALA	CA-C	5.05	1.59	1.52
1	5V	182	LYS	N-CA	-5.05	1.40	1.46
1	69	115	ILE	CA-CB	5.05	1.60	1.54
1	6b	165	VAL	C-N	5.05	1.40	1.33
1	6k	41	SER	N-CA	-5.05	1.40	1.46
1	6p	165	VAL	C-N	5.05	1.40	1.33
1	6r	181	VAL	C-O	-5.05	1.18	1.24
1	6H	117	TRP	NE1-CE2	-5.05	1.31	1.37
1	6Q	104	ILE	N-CA	5.05	1.52	1.46
1	6Y	22	ALA	CA-CB	5.05	1.61	1.53
1	70	27	VAL	C-N	5.05	1.40	1.33
1	78	208	ALA	N-CA	-5.05	1.38	1.45
1	79	12	HIS	ND1-CE1	5.05	1.37	1.32
1	7f	12	HIS	ND1-CE1	5.05	1.37	1.32
1	7h	227	LYS	CA-C	-5.05	1.46	1.52
1	7u	214	MET	CA-C	5.05	1.59	1.52
1	7z	78	ALA	C-O	-5.05	1.18	1.24
1	7C	127	GLY	C-N	5.05	1.40	1.33
1	7L	138	LEU	N-CA	-5.05	1.40	1.46
1	8p	209	ALA	C-N	5.05	1.39	1.33
1	94	81	ASP	N-CA	-5.05	1.39	1.46
1	9o	149	SER	CA-C	-5.05	1.46	1.52
1	ac	59	VAL	CA-CB	-5.05	1.47	1.54
1	ad	62	HIS	C-N	5.05	1.41	1.33
1	11	97	ARG	CA-CB	5.05	1.62	1.53
1	aD	218	CYS	C-O	-5.05	1.17	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aE	124	ILE	CA-C	5.05	1.57	1.53
1	aR	3	VAL	C-N	5.05	1.39	1.33
1	aR	202	LEU	C-O	-5.05	1.18	1.24
1	aS	69	LEU	CA-CB	5.05	1.61	1.53
1	b5	180	GLU	C-O	-5.05	1.18	1.24
1	16	87	HIS	ND1-CE1	5.05	1.37	1.32
1	bh	218	CYS	C-N	5.05	1.40	1.33
1	18	95	GLN	N-CA	-5.05	1.39	1.46
1	bu	173	ARG	CA-CB	5.05	1.61	1.53
1	bx	35	GLU	CA-CB	5.05	1.61	1.53
1	bG	174	ALA	CA-CB	5.05	1.61	1.53
1	ca	231	LEU	N-CA	-5.05	1.36	1.46
1	cd	1	PRO	N-CA	5.05	1.54	1.47
1	1d	136	LEU	CA-C	5.05	1.59	1.52
1	ci	170	LYS	N-CA	5.05	1.52	1.46
1	cv	49	PRO	C-N	5.05	1.40	1.33
1	cw	213	GLU	CA-CB	5.05	1.61	1.53
1	cC	22	ALA	C-N	5.05	1.40	1.33
1	cC	192	GLN	N-CA	-5.05	1.40	1.46
1	cG	5	ASN	CA-C	-5.05	1.46	1.53
1	cJ	105	ALA	C-N	5.05	1.41	1.33
1	1j	33	SER	C-N	5.05	1.39	1.34
1	1k	57	ASN	C-N	5.05	1.40	1.33
1	do	19	THR	N-CA	5.05	1.52	1.46
1	dq	130	TYR	C-N	5.05	1.40	1.33
1	dR	186	THR	C-O	-5.05	1.18	1.24
1	dV	93	PRO	CA-C	5.05	1.58	1.52
1	ef	151	LEU	CA-C	5.05	1.59	1.52
1	el	161	PHE	CA-C	5.05	1.59	1.52
1	en	156	GLY	N-CA	5.05	1.51	1.44
1	eG	14	ALA	CA-CB	5.05	1.61	1.53
1	eK	87	HIS	ND1-CE1	5.05	1.37	1.32
1	eM	62	HIS	ND1-CE1	-5.05	1.27	1.32
1	eV	115	ILE	CA-CB	-5.05	1.48	1.54
1	eY	97	ARG	CD-NE	5.05	1.53	1.46
1	f5	215	MET	N-CA	-5.05	1.39	1.46
1	fi	22	ALA	C-O	-5.05	1.18	1.24
1	fi	97	ARG	CZ-NH1	-5.05	1.25	1.32
1	fD	109	SER	CA-CB	5.05	1.60	1.53
1	fU	35	GLU	C-N	5.05	1.40	1.33
1	fZ	212	GLU	CA-C	5.05	1.59	1.52
1	1B	112	GLN	C-N	5.05	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	57	ASN	CA-C	-5.05	1.46	1.52
1	K	209	ALA	C-N	5.05	1.40	1.33
1	6	90	PRO	CA-C	5.05	1.58	1.52
1	gJ	118	MET	C-N	-5.05	1.27	1.33
1	hg	53	ASN	CA-CB	-5.05	1.45	1.53
1	hi	205	LEU	N-CA	-5.05	1.40	1.46
1	hn	20	LEU	C-O	-5.05	1.18	1.24
1	1J	173	ARG	CD-NE	5.05	1.53	1.46
1	hy	221	VAL	CA-CB	5.05	1.60	1.54
1	hL	73	ILE	CA-CB	-5.05	1.48	1.54
1	hL	161	PHE	C-N	5.05	1.40	1.33
1	hP	33	SER	C-N	5.05	1.39	1.34
1	hW	134	ILE	CA-CB	5.05	1.59	1.54
1	i1	133	TRP	CZ2-CH2	5.05	1.46	1.37
1	ip	165	VAL	CA-CB	5.05	1.60	1.54
1	iy	231	LEU	CA-CB	5.05	1.63	1.53
1	j1	50	GLN	C-N	5.05	1.40	1.33
1	j2	10	MET	N-CA	5.05	1.52	1.46
1	j6	59	VAL	CA-CB	-5.05	1.48	1.54
1	j7	57	ASN	CA-CB	5.05	1.62	1.53
1	jt	82	ARG	CZ-NH1	-5.05	1.25	1.32
1	jG	226	HIS	ND1-CE1	5.05	1.37	1.32
1	jH	23	TRP	NE1-CE2	5.05	1.43	1.37
1	kv	12	HIS	ND1-CE1	5.05	1.37	1.32
1	kF	230	VAL	N-CA	-5.05	1.40	1.46
1	l0	117	TRP	C-N	-5.05	1.27	1.33
1	2z	70	LYS	CA-C	5.05	1.59	1.52
1	2N	90	PRO	CA-CB	5.05	1.60	1.53
1	2N	164	TYR	CZ-OH	5.05	1.48	1.38
1	3a	140	LYS	C-N	5.05	1.40	1.33
1	3a	189	LEU	C-N	5.05	1.40	1.33
1	3Q	177	ALA	C-N	5.05	1.40	1.33
1	3T	73	ILE	CA-C	-5.05	1.46	1.52
1	3Y	155	GLN	CA-CB	5.05	1.61	1.53
1	3Z	27	VAL	C-N	5.05	1.40	1.34
1	4e	163	ASP	CA-CB	5.05	1.61	1.53
1	4i	207	PRO	N-CA	5.05	1.54	1.47
1	4k	194	ALA	CA-CB	5.05	1.62	1.53
1	4q	217	ALA	C-N	5.05	1.40	1.33
1	5M	91	ILE	CA-CB	5.05	1.60	1.54
1	67	67	GLN	C-N	5.05	1.40	1.33
1	6d	226	HIS	CD2-NE2	5.05	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6h	180	GLU	C-N	5.05	1.40	1.33
1	6u	9	GLN	C-N	5.05	1.40	1.33
1	6y	210	THR	N-CA	5.05	1.52	1.46
1	7S	136	LEU	CA-C	5.05	1.59	1.52
1	85	22	ALA	C-N	-5.05	1.27	1.33
1	86	155	GLN	C-N	5.05	1.41	1.33
1	8F	128	GLU	N-CA	5.05	1.52	1.46
1	9c	168	PHE	C-O	-5.05	1.18	1.24
1	9v	66	MET	CA-CB	-5.05	1.45	1.53
1	ad	140	LYS	CA-CB	5.05	1.61	1.53
1	au	74	ASN	C-O	-5.05	1.18	1.24
1	13	229	ARG	CD-NE	5.05	1.53	1.46
1	15	73	ILE	CA-CB	-5.05	1.48	1.54
1	aZ	229	ARG	CZ-NH1	-5.05	1.25	1.32
1	b6	73	ILE	CA-C	5.05	1.59	1.52
1	c7	176	GLN	CA-CB	5.05	1.61	1.53
1	cy	141	ILE	C-N	5.05	1.40	1.33
1	cH	219	GLN	N-CA	-5.05	1.40	1.46
1	cI	112	GLN	CA-C	5.05	1.59	1.52
1	cJ	197	ASP	C-O	-5.05	1.18	1.24
1	dv	24	VAL	N-CA	-5.05	1.40	1.46
1	dS	20	LEU	N-CA	-5.05	1.40	1.46
1	e4	84	HIS	N-CA	5.05	1.53	1.45
1	eE	158	LYS	C-N	5.05	1.39	1.33
1	eM	56	LEU	N-CA	-5.05	1.40	1.46
1	fc	106	GLY	C-N	5.05	1.40	1.33
1	fC	100	ARG	CZ-NH2	-5.05	1.26	1.33
1	fO	199	LYS	C-N	-5.05	1.27	1.33
1	fW	220	GLY	N-CA	5.05	1.52	1.45
1	b	8	GLY	CA-C	-5.05	1.44	1.51
1	j	164	TYR	N-CA	-5.05	1.40	1.46
1	g9	79	GLU	N-CA	-5.05	1.40	1.46
1	1C	86	VAL	CA-CB	-5.05	1.48	1.54
1	gk	111	LEU	C-N	5.05	1.40	1.33
1	gu	193	ASN	N-CA	5.05	1.52	1.46
1	gz	145	TYR	N-CA	5.05	1.51	1.46
1	gA	33	SER	CA-CB	5.05	1.61	1.54
1	1E	104	ILE	N-CA	5.05	1.53	1.46
1	gU	186	THR	CA-C	-5.05	1.46	1.52
1	h7	173	ARG	N-CA	-5.05	1.39	1.46
1	hk	34	PRO	N-CD	-5.05	1.40	1.47
1	hw	131	LYS	CA-CB	5.05	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hx	18	ARG	CZ-NH1	-5.05	1.25	1.32
1	hz	219	GLN	C-N	5.05	1.40	1.33
1	hG	190	LEU	CA-C	5.05	1.59	1.52
1	hX	173	ARG	N-CA	-5.05	1.39	1.46
1	i1	84	HIS	ND1-CE1	5.05	1.37	1.32
1	i6	107	THR	CA-C	-5.05	1.47	1.52
1	im	21	ASN	C-N	5.05	1.40	1.33
1	iQ	62	HIS	CE1-NE2	5.05	1.37	1.32
1	jo	7	GLN	N-CA	-5.05	1.40	1.46
1	jB	36	VAL	CA-C	5.05	1.60	1.52
1	jE	33	SER	C-N	-5.05	1.28	1.34
1	k3	143	ARG	N-CA	-5.05	1.40	1.46
1	k3	159	GLU	C-O	-5.05	1.18	1.24
1	22	159	GLU	CA-C	-5.05	1.46	1.52
1	ky	128	GLU	CA-CB	5.05	1.61	1.53
1	23	29	GLU	CA-C	5.05	1.59	1.52
1	kI	159	GLU	CA-CB	5.05	1.62	1.53
1	l3	112	GLN	C-N	-5.05	1.27	1.33
1	lc	158	LYS	C-N	5.05	1.41	1.33
1	ll	80	TRP	CA-CB	5.05	1.61	1.53
1	29	166	ASP	CA-CB	5.05	1.61	1.53
1	2g	18	ARG	CD-NE	5.05	1.53	1.46
1	2u	30	LYS	CA-CB	5.05	1.61	1.53
1	2z	74	ASN	C-N	5.05	1.40	1.33
1	2z	179	GLN	CA-CB	-5.05	1.45	1.53
1	2B	41	SER	C-N	5.05	1.40	1.33
1	2X	82	ARG	CD-NE	5.05	1.53	1.46
1	32	82	ARG	C-N	5.05	1.40	1.33
1	32	143	ARG	N-CA	-5.05	1.40	1.46
1	32	224	PRO	CA-C	5.05	1.59	1.52
1	3L	129	ILE	N-CA	5.05	1.52	1.46
1	42	149	SER	N-CA	5.05	1.52	1.46
1	4c	150	ILE	CA-C	5.05	1.59	1.52
1	4f	161	PHE	CA-C	-5.05	1.46	1.52
1	4m	105	ALA	C-N	5.05	1.39	1.33
1	4p	94	GLY	C-N	5.05	1.40	1.33
1	4q	80	TRP	CA-C	5.05	1.59	1.52
1	4H	130	TYR	CZ-OH	5.05	1.48	1.38
1	4P	160	PRO	CA-C	5.05	1.59	1.53
1	4Z	85	PRO	C-O	-5.05	1.17	1.23
1	5d	24	VAL	C-N	5.05	1.40	1.33
1	5e	77	ALA	C-O	-5.05	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5f	186	THR	CA-C	-5.05	1.46	1.52
1	5E	210	THR	CA-C	-5.05	1.46	1.52
1	5X	190	LEU	CA-CB	5.05	1.61	1.53
1	6E	167	ARG	C-O	5.05	1.29	1.24
1	6U	73	ILE	CA-CB	5.05	1.60	1.54
1	6W	168	PHE	C-N	5.05	1.40	1.33
1	6Y	72	THR	N-CA	5.05	1.52	1.46
1	70	7	GLN	C-N	5.05	1.40	1.33
1	7k	43	LEU	CA-C	5.05	1.59	1.52
1	7C	134	ILE	CA-CB	-5.05	1.48	1.54
1	7I	6	LEU	N-CA	5.05	1.52	1.45
1	7X	197	ASP	N-CA	-5.05	1.40	1.46
1	83	62	HIS	ND1-CE1	5.05	1.37	1.32
1	84	138	LEU	C-N	5.05	1.40	1.33
1	8f	76	GLU	C-O	-5.05	1.17	1.24
1	8i	76	GLU	CA-CB	5.05	1.61	1.53
1	8K	130	TYR	CA-CB	5.05	1.61	1.53
1	9j	80	TRP	CZ2-CH2	5.05	1.46	1.37
1	9k	18	ARG	C-N	5.05	1.40	1.33
1	9v	141	ILE	CA-C	-5.05	1.46	1.52
1	9F	127	GLY	C-O	-5.05	1.17	1.23
1	9I	211	LEU	C-O	-5.05	1.18	1.24
1	9Q	16	SER	CA-CB	5.05	1.63	1.53
1	a2	214	MET	CA-C	5.05	1.59	1.52
1	10	19	THR	C-N	-5.05	1.27	1.33
1	aC	198	CYS	C-N	5.05	1.40	1.33
1	aG	82	ARG	CD-NE	5.05	1.53	1.46
1	b4	84	HIS	CG-ND1	-5.05	1.32	1.38
1	b8	148	THR	CA-C	-5.05	1.46	1.52
1	17	13	GLN	CA-CB	5.05	1.62	1.53
1	bl	199	LYS	CA-CB	5.05	1.61	1.53
1	bm	41	SER	CA-C	-5.05	1.46	1.52
1	bn	175	GLU	CA-C	5.05	1.59	1.52
1	bs	147	PRO	CA-C	5.05	1.59	1.52
1	bE	22	ALA	CA-CB	5.05	1.61	1.53
1	bH	227	LYS	C-N	5.05	1.41	1.33
1	bR	13	GLN	CA-C	-5.05	1.46	1.52
1	c5	43	LEU	CA-CB	5.05	1.61	1.53
1	1d	48	THR	CA-CB	5.05	1.61	1.53
1	cD	62	HIS	ND1-CE1	5.05	1.37	1.32
1	cO	65	ALA	C-N	5.05	1.40	1.33
1	cW	175	GLU	CA-C	5.05	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cY	145	TYR	CA-CB	5.05	1.62	1.53
1	d3	178	SER	C-N	5.05	1.40	1.33
1	1i	173	ARG	CA-CB	5.05	1.61	1.53
1	d4	121	ASN	CA-C	5.05	1.58	1.52
1	d5	89	GLY	N-CA	5.05	1.51	1.44
1	d8	115	ILE	CA-C	5.05	1.59	1.52
1	dy	89	GLY	N-CA	5.05	1.51	1.44
1	dz	165	VAL	CA-CB	-5.05	1.47	1.54
1	1m	87	HIS	ND1-CE1	5.05	1.37	1.32
1	dN	95	GLN	CA-CB	5.05	1.61	1.53
1	dP	98	GLU	CA-C	5.05	1.58	1.52
1	1n	31	ALA	C-N	5.05	1.40	1.33
1	dT	4	GLN	CA-CB	5.05	1.62	1.53
1	e1	47	ALA	C-O	5.05	1.29	1.23
1	e3	168	PHE	C-O	-5.05	1.18	1.24
1	e4	207	PRO	C-N	5.05	1.41	1.33
1	en	153	ILE	C-N	5.05	1.40	1.33
1	eq	114	GLN	CA-CB	5.05	1.61	1.53
1	ez	147	PRO	CA-C	5.05	1.59	1.52
1	eU	112	GLN	CA-CB	5.05	1.61	1.53
1	eX	69	LEU	C-N	5.05	1.40	1.33
1	eY	37	ILE	CA-C	5.05	1.58	1.52
1	fv	183	ASN	C-O	-5.05	1.18	1.24
1	fF	89	GLY	C-N	5.05	1.39	1.33
1	fW	117	TRP	NE1-CE2	-5.05	1.31	1.37
1	g3	164	TYR	C-O	-5.05	1.18	1.24
1	g7	149	SER	C-N	5.05	1.39	1.34
1	g	53	ASN	C-N	5.05	1.40	1.33
1	h	226	HIS	CG-ND1	-5.05	1.32	1.38
1	W	86	VAL	N-CA	-5.05	1.40	1.46
1	gb	17	PRO	CA-C	5.05	1.60	1.52
1	1C	184	TRP	C-N	5.05	1.40	1.33
1	gj	110	THR	CA-CB	5.05	1.61	1.53
1	gt	191	VAL	N-CA	5.05	1.52	1.46
1	gQ	48	THR	C-O	5.05	1.30	1.23
1	gS	9	GLN	CA-C	-5.05	1.46	1.53
1	gY	97	ARG	CD-NE	5.05	1.53	1.46
1	gZ	162	ARG	NE-CZ	-5.05	1.27	1.33
1	he	16	SER	N-CA	5.05	1.52	1.45
1	hA	76	GLU	CA-C	-5.05	1.46	1.52
1	hB	183	ASN	CA-C	5.05	1.59	1.52
1	id	144	MET	CA-CB	5.05	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	io	7	GLN	CA-CB	5.05	1.61	1.53
1	iq	146	SER	CA-CB	5.05	1.61	1.53
1	ir	18	ARG	C-N	5.05	1.40	1.33
1	ir	120	HIS	CE1-NE2	5.05	1.37	1.32
1	1R	35	GLU	C-O	-5.05	1.17	1.24
1	iR	155	GLN	N-CA	-5.05	1.39	1.45
1	jo	99	PRO	N-CD	-5.05	1.40	1.47
1	jp	201	ILE	CA-C	-5.05	1.46	1.52
1	jT	193	ASN	CA-CB	5.05	1.62	1.53
1	1Z	65	ALA	CA-C	-5.05	1.46	1.52
1	k0	200	THR	C-N	5.05	1.40	1.33
1	kl	20	LEU	N-CA	-5.05	1.40	1.46
1	kp	229	ARG	CD-NE	5.05	1.53	1.46
1	kr	229	ARG	N-CA	-5.05	1.39	1.45
1	kB	23	TRP	CA-C	-5.05	1.46	1.52
1	kJ	38	PRO	N-CD	-5.05	1.40	1.47
1	kL	188	THR	N-CA	5.05	1.52	1.46
1	24	37	ILE	CA-C	5.05	1.58	1.52
1	l0	187	GLU	C-O	-5.05	1.18	1.24
1	lc	74	ASN	C-N	5.05	1.40	1.33
1	lf	103	ASP	N-CA	-5.05	1.39	1.46
1	lh	150	ILE	C-N	5.05	1.40	1.33
1	lk	187	GLU	C-N	5.05	1.39	1.33
1	ls	106	GLY	CA-C	-5.05	1.45	1.51
1	lC	150	ILE	CB-CG1	5.05	1.63	1.53
1	lO	79	GLU	CA-CB	-5.05	1.45	1.53
1	lR	87	HIS	CG-CD2	5.05	1.41	1.35
1	2v	10	MET	CA-CB	5.05	1.60	1.53
1	2x	35	GLU	C-N	5.05	1.40	1.33
1	2A	99	PRO	C-N	5.05	1.40	1.33
1	3f	133	TRP	NE1-CE2	-5.05	1.31	1.37
1	3z	210	THR	CA-C	5.05	1.59	1.52
1	3O	128	GLU	CA-CB	5.05	1.61	1.53
1	3R	218	CYS	CA-CB	5.05	1.61	1.53
1	3U	167	ARG	CD-NE	5.05	1.53	1.46
1	44	108	THR	C-N	5.05	1.40	1.33
1	49	226	HIS	ND1-CE1	5.05	1.37	1.32
1	4z	158	LYS	CA-C	5.05	1.59	1.52
1	4V	164	TYR	CA-CB	5.05	1.61	1.53
1	58	62	HIS	ND1-CE1	-5.05	1.27	1.32
1	5b	158	LYS	CA-C	5.05	1.59	1.52
1	5i	188	THR	N-CA	-5.05	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5u	32	PHE	C-O	-5.05	1.18	1.24
1	5y	60	GLY	C-N	5.05	1.41	1.33
1	5z	47	ALA	N-CA	-5.05	1.39	1.46
1	5N	16	SER	C-O	-5.05	1.18	1.24
1	5T	105	ALA	CA-CB	5.05	1.61	1.53
1	5Y	149	SER	CA-CB	5.05	1.61	1.53
1	61	211	LEU	CA-CB	5.05	1.61	1.53
1	6p	97	ARG	CA-C	5.05	1.59	1.52
1	6r	170	LYS	CA-CB	5.05	1.61	1.53
1	6E	2	ILE	CB-CG1	5.05	1.63	1.53
1	6Q	62	HIS	CA-CB	5.05	1.60	1.53
1	7e	100	ARG	CD-NE	5.05	1.53	1.46
1	7q	4	GLN	CA-C	-5.05	1.46	1.52
1	7X	85	PRO	CA-CB	-5.05	1.46	1.53
1	8b	26	VAL	C-N	5.05	1.40	1.33
1	8q	54	THR	CA-C	-5.05	1.46	1.52
1	8C	223	GLY	CA-C	5.05	1.59	1.51
1	8J	190	LEU	C-N	5.05	1.39	1.34
1	8R	169	TYR	C-O	-5.05	1.18	1.24
1	8U	231	LEU	CA-CB	5.05	1.63	1.53
1	93	31	ALA	N-CA	-5.05	1.39	1.46
1	94	74	ASN	CA-C	5.05	1.59	1.52
1	9g	226	HIS	CA-C	-5.05	1.46	1.52
1	9K	27	VAL	N-CA	5.05	1.52	1.46
1	9K	223	GLY	N-CA	5.05	1.51	1.44
1	9U	95	GLN	C-N	5.05	1.40	1.33
1	9U	162	ARG	C-N	5.05	1.40	1.34
1	9U	197	ASP	CA-CB	5.05	1.61	1.53
1	9Z	63	GLN	C-N	5.05	1.40	1.33
1	a1	46	GLY	CA-C	-5.05	1.44	1.51
1	aa	105	ALA	C-N	5.05	1.40	1.33
1	ab	123	PRO	C-O	5.05	1.29	1.23
1	ab	227	LYS	N-CA	5.05	1.52	1.45
1	ad	194	ALA	C-N	5.05	1.41	1.33
1	aA	50	GLN	N-CA	5.05	1.52	1.46
1	aZ	24	VAL	C-N	5.05	1.41	1.34
1	16	85	PRO	C-N	5.05	1.39	1.33
1	bh	219	GLN	N-CA	5.05	1.52	1.46
1	bQ	14	ALA	C-N	5.05	1.39	1.33
1	bX	27	VAL	CA-C	-5.05	1.46	1.52
1	bZ	34	PRO	N-CD	-5.05	1.40	1.47
1	c0	6	LEU	C-N	5.05	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cp	132	ARG	CD-NE	5.05	1.53	1.46
1	cy	118	MET	CA-CB	5.05	1.61	1.53
1	1f	168	PHE	N-CA	-5.05	1.40	1.46
1	cB	87	HIS	ND1-CE1	5.05	1.37	1.32
1	cC	169	TYR	CA-C	5.05	1.59	1.52
1	cJ	6	LEU	CA-CB	5.05	1.60	1.53
1	cN	32	PHE	N-CA	-5.05	1.39	1.46
1	cU	18	ARG	CA-CB	5.05	1.61	1.53
1	cZ	121	ASN	N-CA	-5.05	1.40	1.46
1	1k	226	HIS	ND1-CE1	5.05	1.37	1.32
1	dI	87	HIS	CD2-NE2	5.05	1.43	1.37
1	dR	80	TRP	CA-C	5.05	1.59	1.52
1	e1	181	VAL	CA-CB	-5.05	1.48	1.54
1	e7	53	ASN	CA-C	5.05	1.59	1.52
1	eg	73	ILE	N-CA	-5.05	1.40	1.46
1	el	169	TYR	C-N	5.05	1.40	1.33
1	ez	173	ARG	CA-CB	5.05	1.61	1.53
1	eZ	201	ILE	CA-CB	-5.05	1.47	1.54
1	fa	164	TYR	CA-C	5.05	1.59	1.52
1	fA	145	TYR	C-O	5.05	1.29	1.24
1	fC	205	LEU	CA-CB	5.05	1.61	1.53
1	fD	91	ILE	CA-CB	5.05	1.61	1.54
1	fW	52	LEU	CA-C	5.05	1.59	1.52
1	fX	21	ASN	CA-CB	5.05	1.61	1.53
1	g2	130	TYR	CA-CB	5.05	1.61	1.53
1	g6	199	LYS	C-N	-5.05	1.27	1.33
1	b	63	GLN	CA-CB	5.05	1.61	1.53
1	c	154	ARG	CA-C	-5.05	1.46	1.52
1	i	85	PRO	C-O	5.05	1.29	1.23
1	o	24	VAL	CA-CB	-5.05	1.48	1.54
1	Q	136	LEU	CA-CB	5.05	1.61	1.53
1	ge	154	ARG	CD-NE	5.05	1.53	1.46
1	gf	121	ASN	CA-CB	5.05	1.59	1.53
1	gw	10	MET	C-N	5.05	1.38	1.33
1	gz	17	PRO	CA-CB	5.05	1.61	1.53
1	1H	30	LYS	CA-CB	5.05	1.61	1.53
1	h8	12	HIS	C-N	5.05	1.40	1.33
1	hQ	172	LEU	N-CA	-5.05	1.39	1.46
1	ip	169	TYR	CZ-OH	5.05	1.48	1.38
1	iH	95	GLN	N-CA	-5.05	1.39	1.45
1	j8	25	LYS	CA-CB	5.05	1.61	1.53
1	jk	9	GLN	N-CA	-5.05	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l1	107	THR	N-CA	-5.05	1.40	1.46
1	ld	203	LYS	CA-CB	5.05	1.62	1.53
1	lk	193	ASN	N-CA	-5.05	1.39	1.46
1	lv	70	LYS	CA-CB	5.05	1.61	1.53
1	2k	14	ALA	C-O	-5.05	1.17	1.23
1	2w	178	SER	CA-C	5.05	1.59	1.53
1	2F	49	PRO	CA-CB	-5.05	1.46	1.53
1	2H	120	HIS	CA-C	-5.05	1.46	1.53
1	2N	124	ILE	CB-CG1	5.05	1.63	1.53
1	2V	93	PRO	C-N	5.05	1.40	1.33
1	51	78	ALA	CA-C	5.05	1.59	1.52
1	5h	124	ILE	CA-C	5.05	1.57	1.53
1	5L	102	SER	CA-CB	5.05	1.61	1.53
1	6r	154	ARG	CZ-NH2	-5.05	1.26	1.33
1	6x	56	LEU	C-N	5.05	1.41	1.33
1	6F	199	LYS	CA-C	5.05	1.60	1.52
1	7I	227	LYS	CA-CB	5.05	1.61	1.53
1	7P	113	GLU	CA-C	5.05	1.59	1.52
1	82	120	HIS	C-N	5.05	1.40	1.33
1	8c	156	GLY	N-CA	5.05	1.51	1.44
1	8g	145	TYR	CA-C	-5.05	1.46	1.53
1	8q	104	ILE	CA-CB	-5.05	1.47	1.54
1	8z	31	ALA	N-CA	5.05	1.52	1.46
1	95	173	ARG	CD-NE	5.05	1.53	1.46
1	9N	219	GLN	CA-C	5.05	1.59	1.52
1	a2	97	ARG	CA-CB	5.05	1.61	1.53
1	ac	65	ALA	C-N	5.05	1.41	1.34
1	au	84	HIS	CG-CD2	-5.05	1.30	1.35
1	aC	38	PRO	N-CA	5.05	1.54	1.47
1	bk	33	SER	C-N	5.05	1.41	1.33
1	bU	172	LEU	CA-CB	5.05	1.61	1.53
1	c0	75	GLU	C-O	-5.05	1.17	1.24
1	d1	147	PRO	CA-CB	-5.05	1.45	1.53
1	dE	194	ALA	N-CA	-5.05	1.39	1.46
1	dT	118	MET	N-CA	-5.05	1.39	1.46
1	1o	192	GLN	N-CA	5.05	1.52	1.46
1	eg	219	GLN	C-O	-5.05	1.17	1.23
1	f1	40	PHE	CG-CD2	5.05	1.49	1.38
1	1v	154	ARG	CA-C	5.05	1.58	1.52
1	fm	24	VAL	N-CA	-5.05	1.40	1.46
1	fm	97	ARG	CD-NE	5.05	1.53	1.46
1	fr	120	HIS	ND1-CE1	5.05	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fs	25	LYS	N-CA	-5.05	1.40	1.46
1	fs	85	PRO	CA-CB	5.05	1.60	1.53
1	fJ	165	VAL	CA-CB	5.05	1.60	1.54
1	fW	61	GLY	CA-C	-5.05	1.46	1.52
1	l	69	LEU	C-N	5.05	1.40	1.33
1	gv	63	GLN	CA-C	5.05	1.59	1.52
1	gN	225	GLY	N-CA	5.05	1.51	1.44
1	gV	17	PRO	N-CA	-5.05	1.40	1.47
1	h2	173	ARG	CA-CB	-5.05	1.45	1.53
1	1I	100	ARG	NE-CZ	-5.05	1.27	1.33
1	hk	150	ILE	CA-C	5.05	1.59	1.52
1	hq	226	HIS	C-N	5.05	1.40	1.33
1	hB	136	LEU	CA-C	5.05	1.59	1.52
1	hE	83	LEU	CA-C	-5.05	1.45	1.52
1	hJ	68	MET	N-CA	5.05	1.52	1.46
1	hK	38	PRO	N-CD	-5.05	1.40	1.47
1	1O	51	ASP	CA-CB	5.05	1.61	1.53
1	in	62	HIS	C-N	5.05	1.40	1.33
1	in	157	PRO	CA-C	-5.05	1.45	1.52
1	iw	49	PRO	N-CD	-5.05	1.40	1.47
1	iA	17	PRO	N-CD	-5.05	1.40	1.47
1	iL	62	HIS	CE1-NE2	5.05	1.37	1.32
1	jf	191	VAL	C-N	5.05	1.40	1.33
1	jl	123	PRO	N-CA	5.05	1.53	1.47
1	jr	55	MET	C-N	5.05	1.40	1.33
1	jw	33	SER	CA-C	5.05	1.57	1.52
1	jz	99	PRO	C-N	5.05	1.40	1.33
1	1X	4	GLN	C-N	5.05	1.40	1.33
1	1Y	14	ALA	C-N	-5.05	1.27	1.33
1	kb	68	MET	CA-C	-5.05	1.46	1.52
1	kw	175	GLU	C-N	5.05	1.41	1.33
1	kx	191	VAL	C-N	5.05	1.41	1.33
1	kI	40	PHE	N-CA	5.05	1.52	1.46
1	kI	100	ARG	N-CA	-5.05	1.39	1.45
1	kK	211	LEU	CA-C	-5.05	1.46	1.52
1	la	226	HIS	ND1-CE1	5.05	1.37	1.32
1	lg	209	ALA	CA-CB	5.05	1.61	1.53
1	lu	40	PHE	CA-CB	5.05	1.61	1.53
1	lB	160	PRO	CA-C	-5.05	1.46	1.52
1	lD	2	ILE	N-CA	5.05	1.52	1.46
1	lK	20	LEU	N-CA	5.05	1.52	1.46
1	2h	70	LYS	CA-C	-5.05	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2l	202	LEU	CA-C	5.05	1.59	1.52
1	2E	169	TYR	N-CA	-5.05	1.40	1.46
1	31	113	GLU	N-CA	-5.05	1.40	1.46
1	37	117	TRP	CA-C	-5.05	1.46	1.52
1	37	222	GLY	CA-C	5.05	1.59	1.52
1	3z	168	PHE	C-N	5.05	1.40	1.33
1	3G	80	TRP	NE1-CE2	5.05	1.43	1.37
1	3V	166	ASP	CA-C	-5.05	1.46	1.52
1	49	12	HIS	ND1-CE1	5.05	1.37	1.32
1	4i	12	HIS	ND1-CE1	5.05	1.37	1.32
1	4n	59	VAL	C-N	5.05	1.40	1.33
1	4B	96	MET	CA-C	-5.05	1.46	1.52
1	4G	105	ALA	CA-CB	5.05	1.62	1.53
1	5a	123	PRO	N-CA	-5.05	1.41	1.47
1	5t	106	GLY	CA-C	-5.05	1.44	1.51
1	5z	206	GLY	CA-C	5.05	1.59	1.51
1	5P	97	ARG	NE-CZ	-5.05	1.27	1.33
1	5Z	110	THR	C-O	-5.05	1.17	1.23
1	6a	106	GLY	C-N	5.05	1.40	1.33
1	6f	192	GLN	CA-CB	5.05	1.61	1.53
1	6V	20	LEU	N-CA	-5.05	1.40	1.46
1	73	153	ILE	C-N	-5.05	1.27	1.33
1	7d	85	PRO	CA-CB	5.05	1.60	1.53
1	7j	130	TYR	C-N	5.05	1.40	1.33
1	7k	86	VAL	CA-CB	5.05	1.60	1.54
1	7l	117	TRP	NE1-CE2	-5.05	1.31	1.37
1	7P	124	ILE	N-CA	5.05	1.52	1.46
1	7U	216	THR	CA-C	-5.05	1.45	1.52
1	82	179	GLN	CA-C	-5.05	1.45	1.52
1	88	93	PRO	C-N	5.05	1.40	1.33
1	89	203	LYS	CA-C	5.05	1.59	1.52
1	8g	3	VAL	N-CA	5.05	1.52	1.46
1	8v	111	LEU	C-O	-5.05	1.18	1.24
1	8D	143	ARG	CA-CB	5.05	1.61	1.53
1	8H	42	ALA	CA-C	-5.05	1.46	1.52
1	8T	200	THR	N-CA	5.05	1.52	1.46
1	9f	162	ARG	CZ-NH1	5.05	1.39	1.32
1	9j	107	THR	CA-C	5.05	1.59	1.52
1	9m	11	VAL	CA-C	5.05	1.58	1.52
1	9z	56	LEU	CA-C	5.05	1.59	1.52
1	9J	126	VAL	CA-C	5.05	1.59	1.52
1	9O	134	ILE	N-CA	-5.05	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9P	128	GLU	CA-CB	5.05	1.61	1.53
1	a1	93	PRO	N-CD	-5.05	1.40	1.47
1	am	98	GLU	CA-C	-5.05	1.47	1.53
1	aM	113	GLU	C-N	5.05	1.40	1.33
1	aQ	100	ARG	C-N	5.05	1.41	1.33
1	b5	21	ASN	CA-CB	5.05	1.61	1.53
1	ba	186	THR	CA-CB	5.05	1.61	1.53
1	by	116	GLY	CA-C	-5.05	1.46	1.52
1	by	185	MET	CA-CB	5.05	1.61	1.53
1	19	162	ARG	CD-NE	5.05	1.53	1.46
1	bR	226	HIS	N-CA	-5.05	1.40	1.46
1	bW	107	THR	CA-CB	5.05	1.61	1.53
1	c4	162	ARG	CD-NE	5.05	1.53	1.46
1	cw	50	GLN	CA-CB	5.05	1.61	1.53
1	cB	87	HIS	C-N	5.05	1.40	1.33
1	cI	120	HIS	CE1-NE2	5.05	1.37	1.32
1	cM	152	ASP	CA-CB	5.05	1.62	1.53
1	cN	91	ILE	CA-C	5.05	1.58	1.52
1	cZ	104	ILE	CA-C	5.05	1.59	1.52
1	d8	131	LYS	C-O	-5.05	1.18	1.24
1	d9	31	ALA	N-CA	5.05	1.52	1.46
1	db	54	THR	CA-C	-5.05	1.46	1.52
1	dn	66	MET	CA-C	5.05	1.59	1.52
1	dp	184	TRP	CD1-NE1	5.05	1.48	1.37
1	1m	104	ILE	N-CA	-5.05	1.40	1.46
1	dR	32	PHE	CA-CB	5.05	1.62	1.53
1	e0	11	VAL	CA-C	5.05	1.59	1.52
1	e6	101	GLY	N-CA	5.05	1.53	1.45
1	ec	215	MET	C-O	5.05	1.30	1.24
1	ek	118	MET	CA-C	5.05	1.59	1.52
1	ep	178	SER	CA-CB	5.05	1.61	1.53
1	eD	170	LYS	C-O	-5.05	1.18	1.24
1	eE	74	ASN	CA-C	5.05	1.59	1.52
1	eK	153	ILE	CB-CG1	5.05	1.63	1.53
1	eY	182	LYS	CA-C	5.05	1.59	1.52
1	fd	82	ARG	NE-CZ	5.05	1.38	1.33
1	fi	216	THR	CA-CB	-5.05	1.47	1.54
1	fu	158	LYS	CD-CE	5.05	1.67	1.52
1	fE	100	ARG	CD-NE	5.05	1.53	1.46
1	fQ	206	GLY	C-N	5.05	1.39	1.34
1	g3	173	ARG	N-CA	-5.05	1.40	1.46
1	t	54	THR	N-CA	5.05	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7	108	THR	C-N	5.05	1.40	1.33
1	gc	143	ARG	CD-NE	5.04	1.53	1.46
1	gm	82	ARG	CD-NE	5.04	1.53	1.46
1	gD	166	ASP	CA-CB	5.04	1.61	1.53
1	gI	226	HIS	N-CA	5.04	1.52	1.46
1	gU	96	MET	C-N	-5.04	1.26	1.33
1	h7	219	GLN	CA-C	5.04	1.58	1.52
1	hT	214	MET	CA-CB	5.04	1.61	1.53
1	i0	215	MET	N-CA	5.04	1.52	1.46
1	il	54	THR	CA-C	-5.04	1.46	1.52
1	ir	101	GLY	CA-C	-5.04	1.46	1.51
1	1T	97	ARG	NE-CZ	5.04	1.38	1.33
1	j7	128	GLU	CA-C	5.04	1.59	1.52
1	je	129	ILE	C-N	5.04	1.40	1.33
1	jy	149	SER	N-CA	5.04	1.52	1.46
1	jU	134	ILE	C-N	5.04	1.40	1.33
1	l6	7	GLN	C-N	5.04	1.40	1.33
1	lO	55	MET	N-CA	-5.04	1.40	1.46
1	2j	230	VAL	C-N	5.04	1.40	1.33
1	2I	170	LYS	C-O	-5.04	1.18	1.24
1	2J	208	ALA	CA-CB	5.04	1.60	1.53
1	2Q	9	GLN	CD-NE2	5.04	1.43	1.33
1	3N	12	HIS	CG-CD2	5.04	1.41	1.35
1	4j	15	ILE	N-CA	5.04	1.52	1.46
1	4q	21	ASN	CA-CB	5.04	1.61	1.53
1	4z	124	ILE	CA-C	5.04	1.57	1.53
1	4V	204	ALA	CA-CB	5.04	1.61	1.53
1	4X	222	GLY	CA-C	-5.04	1.45	1.52
1	58	198	CYS	CA-CB	5.04	1.61	1.53
1	5O	190	LEU	C-N	5.04	1.40	1.33
1	6h	87	HIS	CG-ND1	-5.04	1.32	1.38
1	6m	196	PRO	CA-CB	-5.04	1.46	1.53
1	70	198	CYS	C-O	-5.04	1.17	1.24
1	75	101	GLY	N-CA	5.04	1.52	1.45
1	79	18	ARG	CA-CB	5.04	1.61	1.53
1	7m	10	MET	C-N	5.04	1.38	1.33
1	82	82	ARG	CD-NE	5.04	1.53	1.46
1	86	116	GLY	N-CA	5.04	1.52	1.45
1	89	134	ILE	C-N	5.04	1.40	1.34
1	8p	159	GLU	C-O	5.04	1.30	1.24
1	8s	38	PRO	CA-C	-5.04	1.45	1.52
1	8u	66	MET	CA-CB	5.04	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8v	144	MET	C-N	5.04	1.40	1.33
1	91	180	GLU	CA-CB	5.04	1.61	1.53
1	9m	84	HIS	C-N	5.04	1.40	1.33
1	aD	16	SER	CA-CB	5.04	1.60	1.53
1	aK	138	LEU	N-CA	5.04	1.52	1.46
1	aT	83	LEU	CA-C	5.04	1.59	1.52
1	aV	2	ILE	C-N	5.04	1.39	1.33
1	b6	147	PRO	N-CD	-5.04	1.40	1.47
1	bc	90	PRO	N-CA	5.04	1.52	1.47
1	bn	93	PRO	C-N	5.04	1.40	1.33
1	bZ	199	LYS	C-N	5.04	1.40	1.33
1	c5	91	ILE	C-O	5.04	1.29	1.24
1	cV	55	MET	C-N	5.04	1.40	1.33
1	cV	211	LEU	C-O	-5.04	1.17	1.24
1	d3	211	LEU	CA-CB	5.04	1.61	1.53
1	dn	12	HIS	CE1-NE2	-5.04	1.27	1.32
1	eg	112	GLN	N-CA	-5.04	1.40	1.46
1	1r	223	GLY	N-CA	-5.04	1.37	1.44
1	eH	32	PHE	CG-CD1	5.04	1.49	1.38
1	fS	103	ASP	CA-C	5.04	1.59	1.52
1	g1	70	LYS	CA-CB	5.04	1.61	1.53
1	g4	61	GLY	C-N	5.04	1.40	1.33
1	gp	81	ASP	N-CA	5.04	1.52	1.46
1	gu	3	VAL	CA-CB	5.04	1.60	1.54
1	gu	204	ALA	CA-CB	5.04	1.61	1.53
1	gw	115	ILE	N-CA	-5.04	1.40	1.46
1	gy	28	GLU	CA-C	5.04	1.59	1.52
1	gz	72	THR	N-CA	-5.04	1.40	1.46
1	gI	162	ARG	N-CA	5.04	1.52	1.46
1	gW	125	PRO	CA-CB	5.04	1.58	1.53
1	h3	216	THR	CA-C	-5.04	1.45	1.52
1	hS	74	ASN	CA-C	5.04	1.59	1.52
1	im	182	LYS	C-O	-5.04	1.18	1.24
1	1S	178	SER	C-N	5.04	1.40	1.33
1	jh	69	LEU	C-O	-5.04	1.18	1.24
1	jD	125	PRO	N-CD	-5.04	1.40	1.47
1	jV	63	GLN	CA-C	5.04	1.59	1.52
1	k4	161	PHE	CA-CB	5.04	1.61	1.53
1	k6	63	GLN	C-N	5.04	1.40	1.33
1	k7	105	ALA	N-CA	5.04	1.52	1.46
1	ko	118	MET	CA-CB	5.04	1.61	1.53
1	kF	133	TRP	NE1-CE2	-5.04	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	l1	21	ASN	CA-C	5.04	1.59	1.52
1	l4	219	GLN	C-O	-5.04	1.18	1.24
1	lc	3	VAL	CA-C	5.04	1.58	1.52
1	lm	213	GLU	CA-CB	5.04	1.61	1.53
1	28	167	ARG	N-CA	5.04	1.52	1.46
1	29	128	GLU	C-N	5.04	1.40	1.33
1	lD	162	ARG	CD-NE	5.04	1.53	1.46
1	lE	120	HIS	CG-CD2	5.04	1.41	1.35
1	2a	226	HIS	CA-C	5.04	1.59	1.52
1	2i	184	TRP	NE1-CE2	5.04	1.43	1.37
1	2t	3	VAL	C-O	-5.04	1.19	1.24
1	2C	204	ALA	CA-C	5.04	1.59	1.52
1	2K	51	ASP	N-CA	-5.04	1.40	1.46
1	2Q	132	ARG	NE-CZ	5.04	1.38	1.33
1	2U	74	ASN	CA-C	5.04	1.59	1.52
1	31	49	PRO	C-N	5.04	1.40	1.33
1	36	222	GLY	CA-C	-5.04	1.44	1.52
1	3d	49	PRO	N-CA	-5.04	1.40	1.47
1	3l	204	ALA	N-CA	-5.04	1.40	1.46
1	3x	190	LEU	CA-CB	5.04	1.61	1.53
1	3N	173	ARG	CD-NE	5.04	1.53	1.46
1	3W	189	LEU	CA-C	5.04	1.59	1.52
1	40	81	ASP	C-O	-5.04	1.17	1.24
1	47	146	SER	N-CA	5.04	1.54	1.45
1	4e	58	THR	C-N	5.04	1.39	1.33
1	4h	97	ARG	CD-NE	5.04	1.53	1.46
1	4j	46	GLY	CA-C	5.04	1.58	1.51
1	4w	83	LEU	C-N	5.04	1.39	1.33
1	4E	169	TYR	C-O	-5.04	1.18	1.24
1	5b	10	MET	C-O	5.04	1.30	1.23
1	5p	178	SER	N-CA	-5.04	1.39	1.46
1	5C	186	THR	C-N	5.04	1.41	1.33
1	5S	216	THR	CA-C	-5.04	1.46	1.52
1	5T	110	THR	C-N	-5.04	1.27	1.33
1	5U	97	ARG	CA-CB	5.04	1.61	1.53
1	67	127	GLY	CA-C	-5.04	1.45	1.51
1	68	42	ALA	CA-C	-5.04	1.46	1.52
1	6b	82	ARG	CD-NE	5.04	1.53	1.46
1	6s	184	TRP	NE1-CE2	5.04	1.43	1.37
1	6L	102	SER	CA-CB	5.04	1.61	1.53
1	6O	14	ALA	CA-C	-5.04	1.46	1.52
1	6Z	79	GLU	C-O	-5.04	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	73	165	VAL	C-N	5.04	1.40	1.33
1	76	66	MET	CA-C	-5.04	1.46	1.52
1	79	180	GLU	C-N	5.04	1.40	1.33
1	7m	29	GLU	CA-CB	5.04	1.61	1.53
1	7p	183	ASN	N-CA	-5.04	1.40	1.46
1	7u	60	GLY	N-CA	5.04	1.52	1.45
1	7u	125	PRO	CA-CB	5.04	1.60	1.53
1	7E	151	LEU	CA-C	-5.04	1.46	1.52
1	7H	37	ILE	CA-CB	5.04	1.57	1.53
1	7W	146	SER	CA-CB	5.04	1.61	1.53
1	82	66	MET	N-CA	-5.04	1.40	1.46
1	8a	156	GLY	N-CA	5.04	1.51	1.44
1	8p	91	ILE	CA-C	-5.04	1.47	1.52
1	8q	189	LEU	C-N	5.04	1.40	1.33
1	8C	176	GLN	N-CA	5.04	1.52	1.46
1	8Y	29	GLU	C-O	5.04	1.30	1.24
1	97	174	ALA	C-N	5.04	1.41	1.33
1	9c	1	PRO	N-CA	5.04	1.54	1.47
1	9l	182	LYS	N-CA	5.04	1.52	1.46
1	9m	171	THR	CA-CB	-5.04	1.45	1.53
1	9v	163	ASP	CA-C	-5.04	1.45	1.52
1	9x	112	GLN	CA-C	5.04	1.59	1.52
1	Z	195	ASN	CA-CB	5.04	1.61	1.53
1	aj	224	PRO	CA-C	-5.04	1.45	1.52
1	11	151	LEU	CA-CB	5.04	1.61	1.53
1	as	2	ILE	C-N	5.04	1.40	1.33
1	aT	130	TYR	CA-C	5.04	1.59	1.52
1	bs	78	ALA	N-CA	-5.04	1.40	1.46
1	bA	40	PHE	C-N	5.04	1.40	1.33
1	bG	173	ARG	NE-CZ	-5.04	1.27	1.33
1	bM	24	VAL	C-N	5.04	1.40	1.33
1	c5	61	GLY	C-O	-5.04	1.16	1.23
1	ck	2	ILE	C-O	-5.04	1.19	1.24
1	cn	114	GLN	C-N	5.04	1.40	1.33
1	cV	200	THR	N-CA	5.04	1.52	1.46
1	d6	154	ARG	CD-NE	5.04	1.53	1.46
1	da	90	PRO	CA-CB	5.04	1.60	1.53
1	db	191	VAL	CA-CB	-5.04	1.47	1.54
1	dd	94	GLY	C-N	5.04	1.40	1.33
1	de	51	ASP	CA-CB	5.04	1.61	1.53
1	dw	69	LEU	C-N	-5.04	1.27	1.34
1	dJ	83	LEU	CB-CG	5.04	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	dR	197	ASP	CA-C	5.04	1.59	1.52
1	dX	200	THR	C-N	5.04	1.40	1.33
1	ea	12	HIS	CA-CB	5.04	1.60	1.53
1	ei	138	LEU	CA-C	5.04	1.59	1.52
1	ej	102	SER	CA-C	-5.04	1.46	1.52
1	ek	71	GLU	CA-C	5.04	1.59	1.52
1	1q	97	ARG	CA-CB	5.04	1.61	1.53
1	eo	4	GLN	C-N	5.04	1.41	1.33
1	es	202	LEU	CA-C	5.04	1.59	1.52
1	eH	198	CYS	N-CA	5.04	1.52	1.46
1	eQ	68	MET	N-CA	5.04	1.52	1.46
1	f2	179	GLN	C-N	5.04	1.40	1.33
1	fA	90	PRO	CA-C	-5.04	1.45	1.52
1	fT	123	PRO	N-CA	5.04	1.52	1.47
1	fV	80	TRP	CA-CB	5.04	1.61	1.53
1	g1	119	THR	C-N	5.04	1.40	1.33
1	g	204	ALA	N-CA	-5.04	1.40	1.46
1	k	22	ALA	C-O	-5.04	1.17	1.24
1	k	109	SER	CA-C	-5.04	1.46	1.52
1	r	91	ILE	N-CA	-5.04	1.40	1.46
1	y	6	LEU	C-N	5.04	1.40	1.33
1	B	170	LYS	C-N	5.04	1.40	1.33
1	I	14	ALA	C-N	5.04	1.40	1.33
1	T	89	GLY	N-CA	5.04	1.51	1.44
1	5	21	ASN	C-N	5.04	1.40	1.33
1	ge	84	HIS	ND1-CE1	5.04	1.37	1.32
1	gj	12	HIS	CA-C	5.04	1.59	1.52
1	gq	118	MET	CG-SD	5.04	1.93	1.80
1	gs	121	ASN	CA-CB	5.04	1.60	1.53
1	gC	54	THR	CA-C	5.04	1.59	1.52
1	gG	175	GLU	CA-CB	5.04	1.61	1.53
1	gH	72	THR	C-N	5.04	1.40	1.33
1	gR	56	LEU	CA-C	5.04	1.59	1.52
1	gS	228	ALA	N-CA	-5.04	1.39	1.45
1	gY	99	PRO	C-N	5.04	1.40	1.33
1	gZ	77	ALA	CA-C	5.04	1.59	1.52
1	hP	112	GLN	CA-CB	5.04	1.61	1.53
1	iH	78	ALA	CA-CB	5.04	1.61	1.53
1	iR	226	HIS	CA-C	5.04	1.59	1.52
1	iW	137	GLY	N-CA	5.04	1.52	1.45
1	iX	38	PRO	CA-CB	5.04	1.61	1.53
1	j3	32	PHE	N-CA	5.04	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ja	164	TYR	C-N	5.04	1.40	1.33
1	jb	178	SER	C-N	5.04	1.40	1.33
1	jf	154	ARG	CA-CB	5.04	1.63	1.54
1	jl	226	HIS	CB-CG	5.04	1.57	1.50
1	jm	10	MET	CA-CB	5.04	1.61	1.53
1	jp	69	LEU	C-O	-5.04	1.18	1.24
1	jq	97	ARG	CD-NE	5.04	1.53	1.46
1	jv	227	LYS	C-N	5.04	1.40	1.33
1	jF	77	ALA	C-N	5.04	1.40	1.33
1	k6	84	HIS	N-CA	-5.04	1.40	1.46
1	kb	156	GLY	N-CA	5.04	1.51	1.44
1	ke	117	TRP	CA-C	5.04	1.59	1.52
1	kf	62	HIS	CA-CB	5.04	1.60	1.53
1	kE	57	ASN	CA-C	5.04	1.59	1.52
1	kO	146	SER	CA-CB	5.04	1.60	1.53
1	kP	19	THR	C-O	-5.04	1.18	1.24
1	kW	116	GLY	C-N	-5.04	1.27	1.33
1	l6	166	ASP	CA-CB	5.04	1.61	1.53
1	lb	80	TRP	CZ2-CH2	5.04	1.46	1.37
1	lc	175	GLU	CA-CB	5.04	1.60	1.53
1	28	36	VAL	CA-CB	-5.04	1.48	1.54
1	lL	56	LEU	CA-C	-5.04	1.46	1.52
1	lR	59	VAL	CA-C	5.04	1.59	1.52
1	2f	213	GLU	C-O	-5.04	1.18	1.24
1	2o	213	GLU	C-N	5.04	1.41	1.34
1	2y	148	THR	CB-OG1	-5.04	1.35	1.43
1	2H	111	LEU	CA-CB	5.04	1.61	1.53
1	2X	26	VAL	CA-C	5.04	1.59	1.52
1	30	106	GLY	N-CA	5.04	1.52	1.45
1	30	186	THR	N-CA	5.04	1.52	1.46
1	3p	43	LEU	C-N	5.04	1.41	1.33
1	3G	86	VAL	CA-C	5.04	1.58	1.52
1	3N	107	THR	N-CA	5.04	1.52	1.46
1	3O	222	GLY	C-O	-5.04	1.16	1.23
1	3W	49	PRO	CA-C	-5.04	1.44	1.52
1	40	117	TRP	CA-CB	5.04	1.61	1.53
1	4b	113	GLU	CA-CB	5.04	1.61	1.53
1	4d	163	ASP	CA-CB	5.04	1.61	1.53
1	4f	52	LEU	CA-C	-5.04	1.46	1.52
1	4y	201	ILE	CA-C	-5.04	1.46	1.52
1	4E	18	ARG	CD-NE	5.04	1.53	1.46
1	4P	99	PRO	C-N	5.04	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4R	196	PRO	N-CD	5.04	1.54	1.47
1	52	80	TRP	NE1-CE2	-5.04	1.31	1.37
1	56	150	ILE	N-CA	-5.04	1.39	1.46
1	5a	12	HIS	ND1-CE1	5.04	1.37	1.32
1	5n	195	ASN	CA-CB	5.04	1.61	1.53
1	5v	17	PRO	N-CA	-5.04	1.40	1.47
1	5y	126	VAL	C-O	-5.04	1.18	1.24
1	5K	79	GLU	CA-C	5.04	1.59	1.52
1	63	147	PRO	N-CA	5.04	1.53	1.47
1	68	37	ILE	C-O	-5.04	1.20	1.24
1	6t	82	ARG	CD-NE	5.04	1.53	1.46
1	6w	108	THR	N-CA	5.04	1.52	1.45
1	6A	23	TRP	CA-C	5.04	1.59	1.52
1	73	125	PRO	N-CD	-5.04	1.40	1.47
1	7o	66	MET	CA-C	5.04	1.59	1.52
1	7w	134	ILE	N-CA	5.04	1.52	1.46
1	7w	227	LYS	CA-C	-5.04	1.46	1.52
1	7H	214	MET	CA-C	-5.04	1.45	1.52
1	7I	229	ARG	CD-NE	5.04	1.53	1.46
1	7K	27	VAL	CA-C	-5.04	1.45	1.52
1	7V	184	TRP	CA-CB	5.04	1.61	1.53
1	86	216	THR	C-N	5.04	1.40	1.33
1	8p	62	HIS	ND1-CE1	5.04	1.37	1.32
1	8r	150	ILE	CB-CG1	5.04	1.63	1.53
1	8G	164	TYR	CA-C	5.04	1.59	1.52
1	8J	82	ARG	CA-C	5.04	1.59	1.52
1	8K	7	GLN	CA-CB	5.04	1.60	1.53
1	8X	51	ASP	CA-C	5.04	1.59	1.52
1	9h	174	ALA	CA-CB	5.04	1.61	1.53
1	9Q	182	LYS	CA-CB	5.04	1.61	1.53
1	ab	92	GLU	N-CA	-5.04	1.41	1.46
1	ac	114	GLN	CA-C	-5.04	1.46	1.52
1	ae	52	LEU	CA-CB	5.04	1.61	1.53
1	ak	66	MET	C-N	5.04	1.40	1.33
1	aN	65	ALA	CA-CB	5.04	1.61	1.53
1	b2	123	PRO	CA-CB	-5.04	1.46	1.53
1	16	79	GLU	CA-CB	5.04	1.61	1.53
1	bi	204	ALA	C-N	5.04	1.40	1.33
1	bk	205	LEU	CA-CB	5.04	1.62	1.53
1	bu	162	ARG	CA-CB	5.04	1.61	1.53
1	bx	12	HIS	C-N	5.04	1.40	1.33
1	bA	177	ALA	CA-C	5.04	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bA	226	HIS	CA-CB	5.04	1.60	1.53
1	bH	200	THR	CA-C	-5.04	1.46	1.52
1	bY	146	SER	CA-C	5.04	1.58	1.52
1	c5	208	ALA	C-N	5.04	1.40	1.33
1	c7	1	PRO	N-CD	5.04	1.54	1.47
1	ca	204	ALA	C-N	5.04	1.40	1.33
1	cb	51	ASP	CA-CB	5.04	1.61	1.53
1	cd	20	LEU	N-CA	5.04	1.52	1.46
1	cd	159	GLU	CA-C	5.04	1.59	1.53
1	cm	208	ALA	CA-CB	5.04	1.60	1.53
1	1f	131	LYS	CA-CB	5.04	1.61	1.53
1	cJ	34	PRO	N-CA	5.04	1.53	1.47
1	cV	159	GLU	C-N	5.04	1.40	1.33
1	da	12	HIS	CD2-NE2	5.04	1.43	1.37
1	dc	118	MET	N-CA	-5.04	1.40	1.46
1	dg	86	VAL	CA-CB	-5.04	1.49	1.54
1	dj	91	ILE	N-CA	-5.04	1.39	1.46
1	dm	60	GLY	CA-C	-5.04	1.44	1.51
1	1k	49	PRO	CA-CB	5.04	1.60	1.53
1	do	61	GLY	C-N	5.04	1.40	1.33
1	dp	79	GLU	CA-C	5.04	1.59	1.52
1	dv	16	SER	C-N	-5.04	1.28	1.34
1	dS	51	ASP	CA-C	5.04	1.59	1.52
1	dU	84	HIS	N-CA	-5.04	1.40	1.46
1	dY	183	ASN	CA-CB	5.04	1.61	1.53
1	1o	163	ASP	C-O	-5.04	1.18	1.24
1	ek	5	ASN	CA-C	5.04	1.57	1.52
1	en	145	TYR	CA-C	5.04	1.59	1.52
1	en	168	PHE	CA-CB	5.04	1.61	1.53
1	eC	18	ARG	CD-NE	5.04	1.53	1.46
1	eI	12	HIS	CA-C	5.04	1.59	1.52
1	eJ	23	TRP	NE1-CE2	-5.04	1.31	1.37
1	eP	99	PRO	N-CD	5.04	1.54	1.47
1	fu	36	VAL	CA-C	5.04	1.59	1.52
1	fL	143	ARG	CA-C	-5.04	1.46	1.52
1	fQ	133	TRP	N-CA	-5.04	1.40	1.46
1	fV	28	GLU	N-CA	5.04	1.52	1.46
1	g7	189	LEU	CA-CB	5.04	1.61	1.53
1	i	135	ILE	N-CA	5.04	1.52	1.46
1	u	28	GLU	CA-C	5.04	1.59	1.52
1	w	200	THR	CA-C	5.04	1.59	1.52
1	B	63	GLN	CA-C	-5.04	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	129	ILE	C-N	5.04	1.40	1.33
1	R	207	PRO	CA-CB	-5.04	1.46	1.53
1	gu	89	GLY	C-N	-5.04	1.27	1.33
1	gK	97	ARG	CD-NE	5.04	1.53	1.46
1	gX	12	HIS	CA-CB	-5.04	1.45	1.53
1	h0	119	THR	C-N	5.04	1.40	1.33
1	hf	13	GLN	CA-C	-5.04	1.46	1.52
1	hZ	207	PRO	CA-CB	-5.04	1.46	1.53
1	i7	182	LYS	CA-CB	5.04	1.61	1.53
1	j6	177	ALA	N-CA	5.04	1.52	1.46
1	j8	113	GLU	CA-C	-5.04	1.46	1.52
1	jy	81	ASP	CA-CB	5.04	1.61	1.53
1	jT	187	GLU	CA-C	5.04	1.59	1.52
1	jV	133	TRP	CA-C	-5.04	1.46	1.52
1	1Z	160	PRO	CA-C	5.04	1.58	1.52
1	k1	135	ILE	C-N	5.04	1.40	1.34
1	ks	100	ARG	CD-NE	5.04	1.53	1.46
1	kx	139	ASN	CA-CB	-5.04	1.45	1.53
1	kD	127	GLY	N-CA	-5.04	1.38	1.45
1	kR	175	GLU	CD-OE2	-5.04	1.15	1.25
1	ld	138	LEU	N-CA	5.04	1.52	1.46
1	2s	87	HIS	CB-CG	5.04	1.57	1.50
1	33	121	ASN	CA-C	5.04	1.58	1.52
1	3h	75	GLU	CA-CB	5.04	1.61	1.53
1	3F	28	GLU	CA-CB	5.04	1.61	1.53
1	3W	79	GLU	N-CA	-5.04	1.40	1.46
1	40	199	LYS	CA-CB	5.04	1.61	1.53
1	42	222	GLY	C-O	-5.04	1.17	1.23
1	4k	192	GLN	CA-CB	5.04	1.61	1.53
1	4D	195	ASN	CA-CB	5.04	1.60	1.53
1	4R	128	GLU	CA-C	5.04	1.59	1.52
1	50	59	VAL	N-CA	5.04	1.52	1.46
1	57	72	THR	CA-C	5.04	1.59	1.52
1	5r	73	ILE	C-N	5.04	1.40	1.33
1	5y	117	TRP	NE1-CE2	-5.04	1.31	1.37
1	6e	20	LEU	CA-CB	5.04	1.61	1.53
1	6y	176	GLN	CA-CB	5.04	1.60	1.53
1	7g	22	ALA	N-CA	-5.04	1.40	1.46
1	7m	208	ALA	N-CA	5.04	1.51	1.46
1	7A	195	ASN	CA-CB	5.04	1.60	1.53
1	8G	149	SER	CA-C	5.04	1.59	1.52
1	8P	178	SER	N-CA	-5.04	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8Y	187	GLU	N-CA	5.04	1.52	1.46
1	92	133	TRP	C-N	5.04	1.40	1.33
1	97	128	GLU	CA-CB	5.04	1.61	1.53
1	9i	109	SER	C-N	5.04	1.40	1.33
1	9z	221	VAL	CA-CB	-5.04	1.48	1.54
1	9T	20	LEU	N-CA	-5.04	1.40	1.46
1	10	90	PRO	CA-C	-5.04	1.46	1.52
1	10	125	PRO	CA-C	-5.04	1.48	1.53
1	aQ	144	MET	CA-C	-5.04	1.46	1.52
1	bj	57	ASN	C-N	5.04	1.40	1.33
1	cK	184	TRP	CA-C	5.04	1.59	1.52
1	cZ	47	ALA	N-CA	-5.04	1.39	1.46
1	d0	229	ARG	CD-NE	5.04	1.53	1.46
1	dl	10	MET	CG-SD	-5.04	1.68	1.80
1	dR	176	GLN	N-CA	5.04	1.52	1.46
1	e7	51	ASP	C-N	5.04	1.40	1.33
1	ep	136	LEU	C-N	5.04	1.40	1.33
1	eB	204	ALA	CA-C	5.04	1.59	1.52
1	eK	84	HIS	ND1-CE1	5.04	1.37	1.32
1	eT	8	GLY	N-CA	5.04	1.50	1.45
1	eU	88	ALA	CA-CB	5.04	1.61	1.53
1	fd	148	THR	C-N	5.04	1.40	1.33
1	fy	75	GLU	CA-CB	5.04	1.61	1.53
1	fC	112	GLN	CA-C	5.04	1.59	1.52
1	g4	136	LEU	N-CA	5.04	1.52	1.46
1	g6	143	ARG	NE-CZ	5.04	1.38	1.33
1	F	131	LYS	CA-CB	5.04	1.61	1.53
1	V	155	GLN	C-O	5.04	1.30	1.23
1	5	50	GLN	C-N	5.04	1.40	1.33
1	gg	101	GLY	CA-C	5.04	1.57	1.52
1	gg	229	ARG	CA-CB	5.04	1.61	1.53
1	1C	77	ALA	C-O	-5.04	1.18	1.24
1	gk	40	PHE	N-CA	-5.04	1.40	1.46
1	gR	218	CYS	CA-CB	5.04	1.61	1.53
1	gU	216	THR	CA-CB	5.04	1.61	1.53
1	1G	189	LEU	CA-CB	5.04	1.62	1.53
1	h1	23	TRP	CA-CB	5.04	1.61	1.53
1	hH	72	THR	C-O	-5.04	1.18	1.24
1	hZ	99	PRO	CA-C	5.04	1.58	1.52
1	ig	190	LEU	C-N	5.04	1.40	1.33
1	iy	156	GLY	N-CA	5.04	1.51	1.44
1	iE	134	ILE	CA-CB	-5.04	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iH	84	HIS	N-CA	-5.04	1.38	1.45
1	iR	36	VAL	CA-C	5.04	1.59	1.52
1	1S	162	ARG	CD-NE	5.04	1.53	1.46
1	iT	153	ILE	C-N	5.04	1.40	1.33
1	j9	116	GLY	N-CA	-5.04	1.39	1.45
1	jg	206	GLY	N-CA	5.04	1.51	1.44
1	jt	214	MET	CA-CB	5.04	1.61	1.53
1	jM	167	ARG	CD-NE	5.04	1.53	1.46
1	jO	137	GLY	C-N	5.04	1.40	1.33
1	jX	186	THR	N-CA	5.04	1.52	1.46
1	k4	15	ILE	C-O	-5.04	1.18	1.24
1	ki	75	GLU	C-N	5.04	1.41	1.33
1	kn	229	ARG	N-CA	-5.04	1.39	1.45
1	kA	126	VAL	C-N	5.04	1.40	1.33
1	kI	186	THR	C-N	5.04	1.40	1.33
1	24	125	PRO	CA-C	5.04	1.59	1.52
1	kS	86	VAL	CA-C	5.04	1.58	1.52
1	lf	161	PHE	N-CA	-5.04	1.40	1.46
1	ly	68	MET	CA-CB	5.04	1.61	1.53
1	lG	4	GLN	C-N	5.04	1.39	1.33
1	2i	103	ASP	N-CA	-5.04	1.40	1.46
1	2j	148	THR	CA-C	-5.04	1.46	1.52
1	2r	147	PRO	CA-CB	5.04	1.60	1.53
1	2v	82	ARG	CZ-NH2	-5.04	1.26	1.33
1	2v	150	ILE	CA-CB	-5.04	1.47	1.54
1	2Z	190	LEU	N-CA	5.04	1.52	1.46
1	34	9	GLN	CA-CB	5.04	1.61	1.53
1	3b	194	ALA	C-N	5.04	1.40	1.33
1	3j	95	GLN	CA-CB	5.04	1.61	1.53
1	3v	73	ILE	C-N	5.04	1.41	1.33
1	3y	197	ASP	CA-C	5.04	1.59	1.52
1	42	130	TYR	CA-CB	5.04	1.61	1.53
1	45	123	PRO	CA-C	-5.04	1.45	1.52
1	4t	12	HIS	CG-CD2	5.04	1.41	1.35
1	4M	44	SER	N-CA	-5.04	1.40	1.46
1	4W	162	ARG	CD-NE	5.04	1.53	1.46
1	4W	190	LEU	C-N	5.04	1.40	1.33
1	51	39	MET	C-N	5.04	1.40	1.33
1	5k	12	HIS	ND1-CE1	5.04	1.37	1.32
1	5q	199	LYS	N-CA	-5.04	1.40	1.46
1	5w	107	THR	CA-C	-5.04	1.45	1.52
1	5E	200	THR	CA-C	5.04	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5G	173	ARG	CD-NE	5.04	1.53	1.46
1	5Q	134	ILE	C-N	5.04	1.40	1.33
1	5R	81	ASP	CA-CB	5.04	1.61	1.53
1	5R	188	THR	CA-C	-5.04	1.46	1.52
1	5V	50	GLN	C-N	5.04	1.40	1.33
1	5X	76	GLU	CA-C	5.04	1.59	1.52
1	62	178	SER	CA-C	5.04	1.59	1.52
1	6s	84	HIS	CA-CB	5.04	1.60	1.53
1	71	151	LEU	N-CA	5.04	1.52	1.46
1	7n	36	VAL	N-CA	-5.04	1.40	1.46
1	7o	130	TYR	C-N	5.04	1.40	1.33
1	7o	188	THR	C-O	-5.04	1.17	1.24
1	7N	98	GLU	C-N	5.04	1.39	1.33
1	7V	76	GLU	CA-C	-5.04	1.46	1.52
1	8f	58	THR	N-CA	5.04	1.52	1.46
1	8j	70	LYS	C-N	-5.04	1.27	1.33
1	8r	178	SER	CA-C	5.04	1.58	1.52
1	8Y	211	LEU	CA-C	5.04	1.59	1.52
1	90	68	MET	CA-CB	5.04	1.61	1.53
1	95	229	ARG	CA-C	5.04	1.59	1.52
1	9d	149	SER	C-N	5.04	1.40	1.33
1	9I	132	ARG	CD-NE	5.04	1.53	1.46
1	9N	164	TYR	CA-C	5.04	1.59	1.52
1	9X	37	ILE	C-N	5.04	1.40	1.34
1	Z	123	PRO	N-CA	5.04	1.52	1.46
1	ae	75	GLU	C-N	5.04	1.40	1.33
1	al	158	LYS	CA-C	-5.04	1.46	1.52
1	am	142	VAL	CA-C	5.04	1.59	1.52
1	aw	189	LEU	CA-C	-5.04	1.46	1.52
1	aC	139	ASN	CA-CB	5.04	1.61	1.53
1	aJ	142	VAL	CA-C	5.04	1.59	1.52
1	aJ	168	PHE	CA-CB	5.04	1.61	1.53
1	b2	196	PRO	CA-CB	5.04	1.61	1.53
1	b6	31	ALA	CA-C	5.04	1.59	1.52
1	bB	81	ASP	C-N	5.04	1.40	1.33
1	bD	92	GLU	CA-CB	5.04	1.61	1.53
1	bE	71	GLU	CA-CB	-5.04	1.45	1.53
1	bF	31	ALA	N-CA	-5.04	1.39	1.46
1	bG	229	ARG	CA-CB	5.04	1.61	1.53
1	bP	13	GLN	CA-C	-5.04	1.46	1.52
1	cb	12	HIS	ND1-CE1	5.04	1.37	1.32
1	ce	82	ARG	CD-NE	5.04	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cs	188	THR	CA-CB	-5.04	1.45	1.53
1	cM	114	GLN	CA-CB	5.04	1.61	1.53
1	1h	18	ARG	C-N	5.04	1.40	1.33
1	1h	96	MET	CA-CB	-5.04	1.45	1.53
1	d2	133	TRP	N-CA	5.04	1.52	1.46
1	dv	192	GLN	CA-CB	5.04	1.62	1.53
1	dx	84	HIS	CE1-NE2	5.04	1.37	1.32
1	dI	26	VAL	CA-CB	-5.04	1.48	1.54
1	dU	120	HIS	C-O	-5.04	1.18	1.23
1	dZ	93	PRO	N-CA	5.04	1.53	1.47
1	e3	137	GLY	CA-C	-5.04	1.45	1.51
1	eh	196	PRO	N-CA	-5.04	1.41	1.47
1	ej	222	GLY	N-CA	5.04	1.52	1.45
1	ev	111	LEU	CA-CB	5.04	1.61	1.53
1	eB	99	PRO	CA-CB	5.04	1.60	1.53
1	eO	180	GLU	CA-CB	5.04	1.61	1.53
1	1t	178	SER	C-N	5.04	1.40	1.33
1	eS	33	SER	C-O	5.04	1.28	1.24
1	eT	63	GLN	N-CA	5.04	1.52	1.46
1	eY	7	GLN	CA-C	-5.04	1.46	1.52
1	fj	23	TRP	C-N	5.04	1.40	1.33
1	fl	76	GLU	CA-C	5.04	1.59	1.52
1	fs	20	LEU	CA-C	-5.04	1.46	1.52
1	fN	136	LEU	C-N	5.04	1.39	1.33
1	fQ	189	LEU	N-CA	-5.04	1.40	1.46
1	e	211	LEU	C-N	5.04	1.40	1.33
1	i	226	HIS	CG-CD2	5.04	1.41	1.35
1	k	155	GLN	C-N	5.04	1.41	1.33
1	q	69	LEU	CA-CB	5.04	1.61	1.53
1	G	28	GLU	C-N	5.04	1.40	1.33
1	G	188	THR	C-O	-5.04	1.17	1.24
1	H	212	GLU	N-CA	-5.04	1.40	1.46
1	I	130	TYR	C-O	-5.04	1.18	1.24
1	R	166	ASP	N-CA	5.04	1.52	1.46
1	gD	193	ASN	CA-CB	5.04	1.60	1.53
1	gQ	71	GLU	CA-C	5.04	1.59	1.52
1	h3	121	ASN	C-O	-5.04	1.21	1.25
1	he	165	VAL	C-N	5.04	1.40	1.33
1	i1	20	LEU	N-CA	-5.04	1.40	1.46
1	iA	92	GLU	C-N	5.04	1.40	1.33
1	iM	226	HIS	CD2-NE2	5.04	1.43	1.37
1	j2	140	LYS	C-N	5.04	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j5	123	PRO	N-CA	5.04	1.53	1.47
1	jo	22	ALA	C-O	-5.04	1.18	1.24
1	jQ	229	ARG	C-N	5.04	1.40	1.33
1	k9	96	MET	C-N	5.04	1.40	1.33
1	kv	126	VAL	CA-CB	-5.04	1.48	1.54
1	l3	192	GLN	CA-CB	5.04	1.61	1.53
1	l4	212	GLU	N-CA	-5.04	1.40	1.46
1	lc	2	ILE	N-CA	-5.04	1.40	1.46
1	2d	23	TRP	C-N	5.04	1.40	1.33
1	2i	213	GLU	CA-C	5.04	1.59	1.52
1	2H	186	THR	CA-C	-5.04	1.46	1.52
1	2W	7	GLN	CA-CB	5.04	1.60	1.53
1	3C	162	ARG	CA-CB	5.04	1.61	1.53
1	4X	221	VAL	CA-C	-5.04	1.46	1.52
1	58	174	ALA	CA-CB	5.04	1.61	1.53
1	5p	12	HIS	CG-ND1	-5.04	1.32	1.38
1	5y	104	ILE	CA-C	5.04	1.60	1.52
1	5L	181	VAL	CA-CB	-5.04	1.48	1.54
1	6w	68	MET	C-N	5.04	1.40	1.33
1	6K	100	ARG	CA-CB	5.04	1.61	1.53
1	6R	54	THR	N-CA	5.04	1.52	1.46
1	8d	106	GLY	C-O	-5.04	1.18	1.24
1	8G	214	MET	C-N	5.04	1.41	1.33
1	8T	143	ARG	C-O	5.04	1.29	1.24
1	94	37	ILE	CA-C	5.04	1.57	1.52
1	9i	162	ARG	CA-CB	5.04	1.61	1.53
1	9Z	111	LEU	N-CA	5.04	1.52	1.46
1	an	12	HIS	CD2-NE2	5.04	1.43	1.37
1	b9	120	HIS	CE1-NE2	-5.04	1.27	1.32
1	bq	73	ILE	CA-CB	-5.04	1.48	1.54
1	bV	92	GLU	C-N	5.04	1.38	1.33
1	1e	202	LEU	CA-CB	5.04	1.61	1.53
1	cM	203	LYS	CA-CB	5.04	1.62	1.53
1	cN	12	HIS	ND1-CE1	5.04	1.37	1.32
1	cP	203	LYS	CA-C	-5.04	1.46	1.52
1	do	47	ALA	N-CA	5.04	1.52	1.46
1	dt	50	GLN	C-N	5.04	1.40	1.33
1	dx	114	GLN	C-N	5.04	1.40	1.33
1	ez	87	HIS	CD2-NE2	5.04	1.43	1.37
1	1t	84	HIS	CE1-NE2	5.04	1.37	1.32
1	f2	140	LYS	N-CA	-5.04	1.40	1.46
1	fw	72	THR	C-N	5.04	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fK	23	TRP	NE1-CE2	-5.04	1.31	1.37
1	g0	106	GLY	CA-C	-5.04	1.44	1.51
1	g2	184	TRP	NE1-CE2	-5.04	1.31	1.37
1	r	211	LEU	CB-CG	5.04	1.63	1.53
1	u	97	ARG	CA-C	5.04	1.59	1.52
1	R	12	HIS	CG-ND1	-5.04	1.32	1.38
1	gg	216	THR	N-CA	5.04	1.52	1.46
1	go	133	TRP	C-N	5.04	1.40	1.33
1	gM	229	ARG	CZ-NH1	-5.04	1.25	1.32
1	gU	39	MET	N-CA	5.04	1.52	1.46
1	gW	76	GLU	C-N	5.04	1.40	1.33
1	hg	23	TRP	CD2-CE2	5.04	1.50	1.41
1	hD	162	ARG	C-N	5.04	1.40	1.33
1	hH	121	ASN	CA-C	5.04	1.58	1.52
1	hK	65	ALA	CA-C	5.04	1.59	1.52
1	1M	16	SER	C-O	5.04	1.30	1.24
1	hV	32	PHE	N-CA	5.04	1.52	1.46
1	i5	186	THR	C-N	5.04	1.40	1.33
1	i8	106	GLY	N-CA	5.04	1.52	1.45
1	ic	14	ALA	N-CA	5.04	1.52	1.45
1	iI	35	GLU	CA-C	5.04	1.59	1.52
1	iN	126	VAL	CA-CB	5.04	1.60	1.54
1	j0	21	ASN	CA-C	5.04	1.59	1.52
1	1V	79	GLU	CA-CB	5.04	1.61	1.53
1	jo	50	GLN	CA-C	-5.04	1.46	1.52
1	jt	216	THR	CA-C	5.04	1.59	1.52
1	jD	163	ASP	CA-C	5.04	1.59	1.52
1	jG	16	SER	CA-C	-5.04	1.47	1.52
1	k1	35	GLU	CA-C	-5.04	1.45	1.52
1	k2	36	VAL	CA-CB	-5.04	1.47	1.54
1	k5	208	ALA	C-N	-5.04	1.26	1.33
1	20	7	GLN	N-CA	-5.04	1.39	1.46
1	ke	172	LEU	C-O	-5.04	1.18	1.24
1	kh	124	ILE	N-CA	-5.04	1.42	1.46
1	21	148	THR	N-CA	5.04	1.52	1.46
1	kD	162	ARG	NE-CZ	-5.04	1.27	1.33
1	kF	143	ARG	CA-C	5.04	1.59	1.52
1	kK	124	ILE	CA-C	-5.04	1.49	1.53
1	kL	124	ILE	N-CA	-5.04	1.42	1.46
1	kY	59	VAL	N-CA	-5.04	1.40	1.46
1	lk	20	LEU	N-CA	5.04	1.52	1.46
1	ls	65	ALA	C-O	-5.04	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	lu	210	THR	N-CA	-5.04	1.39	1.45
1	lD	144	MET	C-N	-5.04	1.26	1.33
1	lD	160	PRO	C-O	-5.04	1.17	1.23
1	2x	106	GLY	C-N	5.04	1.41	1.33
1	2Z	126	VAL	CA-C	5.04	1.59	1.52
1	32	152	ASP	CA-CB	5.04	1.61	1.53
1	32	222	GLY	C-N	5.04	1.41	1.33
1	3d	10	MET	N-CA	-5.04	1.39	1.46
1	3s	162	ARG	CD-NE	5.04	1.53	1.46
1	3u	198	CYS	CA-C	5.04	1.59	1.52
1	3H	169	TYR	CA-C	-5.04	1.46	1.52
1	43	35	GLU	C-N	5.04	1.40	1.33
1	4a	43	LEU	CA-CB	5.04	1.61	1.53
1	4j	203	LYS	CA-C	5.04	1.60	1.52
1	4q	50	GLN	CA-C	5.04	1.59	1.52
1	4v	195	ASN	CA-C	5.04	1.58	1.53
1	4D	164	TYR	C-N	5.04	1.40	1.33
1	4O	109	SER	CA-CB	5.04	1.61	1.53
1	4S	84	HIS	CB-CG	5.04	1.57	1.50
1	53	45	GLU	CA-CB	5.04	1.64	1.52
1	54	188	THR	CA-C	-5.04	1.46	1.52
1	5p	198	CYS	N-CA	-5.04	1.40	1.46
1	5u	162	ARG	CD-NE	5.04	1.53	1.46
1	5E	24	VAL	C-O	-5.04	1.18	1.24
1	5L	47	ALA	C-N	5.04	1.40	1.33
1	6a	132	ARG	CD-NE	5.04	1.53	1.46
1	6c	208	ALA	N-CA	5.04	1.51	1.46
1	6g	188	THR	CA-C	5.04	1.59	1.52
1	6i	178	SER	CA-C	-5.04	1.46	1.53
1	6l	165	VAL	C-O	-5.04	1.18	1.24
1	6u	134	ILE	CA-CB	-5.04	1.48	1.54
1	6u	176	GLN	C-N	5.04	1.40	1.33
1	6y	225	GLY	C-N	5.04	1.40	1.33
1	6A	44	SER	C-N	5.04	1.40	1.33
1	6V	126	VAL	CA-C	-5.04	1.46	1.52
1	77	204	ALA	CA-C	5.04	1.57	1.52
1	7b	155	GLN	N-CA	-5.04	1.40	1.46
1	7c	212	GLU	C-N	5.04	1.40	1.33
1	7l	76	GLU	N-CA	5.04	1.52	1.46
1	7M	163	ASP	N-CA	5.04	1.52	1.46
1	80	12	HIS	ND1-CE1	5.04	1.37	1.32
1	8k	210	THR	CA-CB	5.04	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8l	191	VAL	CA-CB	-5.04	1.48	1.54
1	8n	219	GLN	CA-C	5.04	1.59	1.52
1	9o	167	ARG	CA-CB	5.04	1.61	1.53
1	9q	123	PRO	CA-CB	5.04	1.60	1.53
1	9x	124	ILE	CA-C	5.04	1.58	1.52
1	9C	17	PRO	N-CD	-5.04	1.40	1.47
1	9J	6	LEU	CA-C	-5.04	1.46	1.52
1	Y	224	PRO	CA-C	5.04	1.59	1.52
1	Z	155	GLN	N-CA	-5.04	1.39	1.46
1	ad	156	GLY	C-N	-5.04	1.28	1.34
1	ad	172	LEU	N-CA	-5.04	1.39	1.46
1	at	189	LEU	N-CA	5.04	1.52	1.46
1	ay	223	GLY	N-CA	5.04	1.51	1.44
1	az	53	ASN	CA-CB	5.04	1.61	1.53
1	aM	163	ASP	N-CA	-5.04	1.40	1.46
1	14	169	TYR	CB-CG	-5.04	1.40	1.51
1	aU	193	ASN	CA-CB	5.04	1.62	1.53
1	bb	18	ARG	NE-CZ	-5.04	1.27	1.33
1	bb	91	ILE	CA-CB	-5.04	1.48	1.54
1	17	12	HIS	ND1-CE1	5.04	1.37	1.32
1	bi	151	LEU	CA-C	5.04	1.59	1.52
1	bz	110	THR	C-O	5.04	1.30	1.23
1	bC	180	GLU	CA-CB	5.04	1.61	1.53
1	bQ	25	LYS	CA-C	-5.04	1.46	1.52
1	bT	203	LYS	C-N	-5.04	1.27	1.33
1	1b	104	ILE	N-CA	-5.04	1.40	1.46
1	bX	65	ALA	N-CA	-5.04	1.40	1.46
1	c3	128	GLU	CA-CB	5.04	1.61	1.53
1	cg	129	ILE	CA-CB	-5.04	1.48	1.54
1	cn	230	VAL	C-O	5.04	1.29	1.24
1	co	147	PRO	N-CA	5.04	1.53	1.47
1	cp	180	GLU	N-CA	-5.04	1.40	1.46
1	dc	200	THR	CA-C	5.04	1.59	1.52
1	de	182	LYS	C-N	5.04	1.40	1.33
1	du	14	ALA	C-O	5.04	1.30	1.23
1	dy	62	HIS	CA-CB	5.04	1.60	1.53
1	dC	187	GLU	CA-CB	5.04	1.61	1.53
1	dH	226	HIS	CA-CB	5.04	1.60	1.53
1	dP	66	MET	CA-CB	5.04	1.61	1.53
1	dY	30	LYS	CA-CB	5.04	1.61	1.54
1	eh	34	PRO	N-CD	-5.04	1.40	1.47
1	eh	62	HIS	CA-CB	5.04	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ez	10	MET	CA-C	-5.04	1.46	1.52
1	eD	131	LYS	CA-CB	5.04	1.61	1.53
1	eJ	172	LEU	CA-C	-5.04	1.46	1.52
1	eN	161	PHE	CA-CB	5.04	1.61	1.53
1	1t	62	HIS	C-N	5.04	1.40	1.33
1	1u	34	PRO	N-CA	5.04	1.53	1.47
1	f6	133	TRP	C-N	5.04	1.40	1.33
1	fe	21	ASN	C-N	5.04	1.40	1.33
1	fe	117	TRP	C-N	5.04	1.40	1.33
1	fo	8	GLY	CA-C	-5.04	1.44	1.51
1	fp	144	MET	CA-CB	5.04	1.61	1.53
1	ft	229	ARG	CA-CB	5.04	1.63	1.54
1	fu	22	ALA	CA-CB	5.04	1.61	1.53
1	fC	118	MET	C-O	-5.04	1.17	1.24
1	fI	51	ASP	C-O	-5.04	1.18	1.24
1	fN	187	GLU	CA-C	-5.04	1.46	1.52
1	fP	118	MET	CA-C	-5.04	1.46	1.52
1	g6	9	GLN	C-O	-5.04	1.18	1.24
1	B	205	LEU	CA-C	5.04	1.59	1.52
1	D	125	PRO	N-CA	-5.04	1.40	1.47
1	gG	230	VAL	N-CA	5.03	1.52	1.46
1	gI	71	GLU	CA-CB	5.03	1.61	1.53
1	gO	206	GLY	N-CA	5.03	1.51	1.44
1	gQ	49	PRO	C-N	5.03	1.40	1.33
1	gT	57	ASN	CA-C	5.03	1.59	1.52
1	gX	97	ARG	C-N	5.03	1.41	1.33
1	h5	105	ALA	N-CA	-5.03	1.39	1.46
1	h7	179	GLN	CA-CB	5.03	1.61	1.53
1	h8	208	ALA	C-N	5.03	1.40	1.33
1	ht	104	ILE	C-N	5.03	1.40	1.33
1	hA	23	TRP	CA-C	5.03	1.59	1.52
1	1M	143	ARG	CA-C	-5.03	1.46	1.52
1	hY	133	TRP	CA-CB	5.03	1.61	1.53
1	im	13	GLN	CA-C	-5.03	1.46	1.52
1	iy	27	VAL	N-CA	5.03	1.52	1.46
1	iQ	175	GLU	N-CA	5.03	1.52	1.46
1	iV	18	ARG	C-O	-5.03	1.18	1.24
1	jj	107	THR	CA-C	-5.03	1.46	1.52
1	jm	87	HIS	ND1-CE1	5.03	1.37	1.32
1	jx	193	ASN	N-CA	5.03	1.52	1.46
1	jy	126	VAL	CA-CB	5.03	1.60	1.54
1	jN	94	GLY	CA-C	-5.03	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jR	27	VAL	CA-C	5.03	1.59	1.52
1	km	119	THR	CA-CB	5.03	1.61	1.53
1	kA	163	ASP	C-O	-5.03	1.18	1.24
1	kI	54	THR	N-CA	-5.03	1.40	1.46
1	kM	71	GLU	CA-C	5.03	1.59	1.52
1	kQ	226	HIS	ND1-CE1	5.03	1.37	1.32
1	kT	221	VAL	C-N	5.03	1.39	1.33
1	l0	87	HIS	CD2-NE2	5.03	1.43	1.37
1	l1	215	MET	CA-CB	5.03	1.61	1.53
1	lk	160	PRO	N-CA	5.03	1.53	1.47
1	lF	195	ASN	CA-C	5.03	1.59	1.52
1	lG	126	VAL	N-CA	-5.03	1.39	1.46
1	lQ	134	ILE	CA-CB	5.03	1.60	1.54
1	2v	4	GLN	CA-CB	-5.03	1.46	1.53
1	2E	107	THR	CA-CB	5.03	1.61	1.53
1	2G	137	GLY	C-O	5.03	1.29	1.23
1	3e	18	ARG	C-N	5.03	1.40	1.33
1	3f	182	LYS	C-N	5.03	1.40	1.33
1	3t	165	VAL	N-CA	-5.03	1.40	1.46
1	3u	160	PRO	CA-CB	-5.03	1.47	1.53
1	3v	52	LEU	CA-C	5.03	1.59	1.52
1	3y	212	GLU	C-O	-5.03	1.18	1.24
1	3A	130	TYR	CA-CB	5.03	1.61	1.53
1	3J	50	GLN	C-O	-5.03	1.18	1.24
1	3P	219	GLN	C-N	5.03	1.39	1.33
1	3T	9	GLN	CA-C	5.03	1.58	1.52
1	44	201	ILE	C-N	5.03	1.40	1.33
1	4a	109	SER	CA-C	5.03	1.58	1.52
1	4a	127	GLY	C-O	-5.03	1.17	1.23
1	4m	113	GLU	N-CA	5.03	1.52	1.46
1	4q	156	GLY	C-O	-5.03	1.17	1.24
1	4w	169	TYR	C-O	-5.03	1.18	1.24
1	4G	87	HIS	CD2-NE2	-5.03	1.32	1.37
1	4I	36	VAL	N-CA	-5.03	1.40	1.46
1	4O	120	HIS	CA-CB	5.03	1.61	1.53
1	4X	65	ALA	N-CA	-5.03	1.40	1.46
1	4Y	84	HIS	CA-C	-5.03	1.46	1.52
1	51	44	SER	CA-CB	5.03	1.60	1.53
1	52	124	ILE	CA-CB	-5.03	1.47	1.54
1	5u	172	LEU	CA-C	5.03	1.59	1.52
1	5w	59	VAL	CA-CB	5.03	1.60	1.54
1	5B	141	ILE	C-O	5.03	1.30	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5H	144	MET	CA-C	5.03	1.59	1.52
1	5H	146	SER	CA-C	5.03	1.59	1.52
1	5N	101	GLY	N-CA	5.03	1.52	1.45
1	5Q	196	PRO	C-N	5.03	1.40	1.33
1	5S	154	ARG	CD-NE	5.03	1.53	1.46
1	67	4	GLN	CA-CB	5.03	1.60	1.53
1	6g	20	LEU	CA-CB	5.03	1.61	1.53
1	6H	16	SER	C-N	5.03	1.40	1.34
1	6I	91	ILE	CA-C	-5.03	1.46	1.52
1	71	140	LYS	CA-CB	5.03	1.61	1.53
1	7m	74	ASN	CA-C	5.03	1.59	1.52
1	7p	208	ALA	CA-C	5.03	1.59	1.53
1	7z	222	GLY	N-CA	5.03	1.52	1.45
1	85	131	LYS	CA-CB	5.03	1.61	1.53
1	87	195	ASN	CA-C	5.03	1.59	1.53
1	8r	65	ALA	CA-C	-5.03	1.46	1.52
1	8w	40	PHE	CA-CB	5.03	1.61	1.53
1	9f	78	ALA	CA-C	5.03	1.59	1.52
1	9g	41	SER	N-CA	-5.03	1.40	1.46
1	9k	217	ALA	C-N	5.03	1.40	1.33
1	9z	150	ILE	CA-CB	-5.03	1.47	1.54
1	9C	126	VAL	CA-CB	5.03	1.60	1.54
1	9J	212	GLU	CA-C	5.03	1.59	1.52
1	9X	114	GLN	N-CA	-5.03	1.40	1.46
1	aj	99	PRO	C-O	5.03	1.28	1.23
1	al	58	THR	N-CA	5.03	1.52	1.46
1	al	121	ASN	CA-C	5.03	1.56	1.52
1	ao	85	PRO	CA-CB	5.03	1.60	1.53
1	au	131	LYS	N-CA	-5.03	1.40	1.46
1	aA	45	GLU	C-N	5.03	1.40	1.33
1	aB	222	GLY	C-N	5.03	1.41	1.33
1	aL	7	GLN	C-N	5.03	1.40	1.33
1	b5	212	GLU	C-N	5.03	1.40	1.33
1	be	134	ILE	CA-C	5.03	1.58	1.52
1	bs	83	LEU	CA-C	-5.03	1.46	1.52
1	bs	181	VAL	C-N	5.03	1.41	1.34
1	bu	94	GLY	CA-C	5.03	1.58	1.51
1	bB	18	ARG	N-CA	-5.03	1.40	1.46
1	bM	109	SER	CA-C	-5.03	1.46	1.52
1	bP	225	GLY	CA-C	-5.03	1.44	1.51
1	1c	206	GLY	CA-C	5.03	1.59	1.51
1	c6	158	LYS	CA-CB	5.03	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	c7	86	VAL	CA-CB	-5.03	1.47	1.54
1	cq	106	GLY	CA-C	-5.03	1.44	1.51
1	cs	38	PRO	C-O	-5.03	1.17	1.24
1	cv	71	GLU	N-CA	-5.03	1.40	1.46
1	cA	12	HIS	CD2-NE2	5.03	1.43	1.37
1	cE	200	THR	CA-CB	5.03	1.61	1.53
1	1g	146	SER	C-N	5.03	1.40	1.34
1	cS	118	MET	N-CA	5.03	1.52	1.46
1	dn	197	ASP	CA-C	5.03	1.59	1.52
1	dv	23	TRP	C-N	5.03	1.40	1.33
1	dw	93	PRO	N-CA	5.03	1.53	1.47
1	1l	3	VAL	N-CA	-5.03	1.40	1.46
1	1l	212	GLU	C-N	5.03	1.40	1.33
1	dA	37	ILE	N-CA	5.03	1.52	1.46
1	dC	229	ARG	CD-NE	5.03	1.53	1.46
1	dZ	50	GLN	C-N	-5.03	1.27	1.33
1	ed	71	GLU	CA-C	5.03	1.59	1.52
1	ei	71	GLU	CA-C	-5.03	1.46	1.52
1	el	192	GLN	C-N	-5.03	1.27	1.33
1	eC	50	GLN	CA-C	5.03	1.59	1.52
1	eD	221	VAL	CA-CB	-5.03	1.47	1.54
1	eF	146	SER	CA-C	5.03	1.58	1.52
1	1u	117	TRP	N-CA	-5.03	1.40	1.46
1	1u	218	CYS	CA-CB	5.03	1.61	1.53
1	1v	220	GLY	C-N	5.03	1.39	1.33
1	fc	146	SER	CA-C	5.03	1.58	1.53
1	ff	101	GLY	C-O	-5.03	1.17	1.23
1	fg	75	GLU	CA-C	5.03	1.59	1.52
1	fj	136	LEU	C-N	5.03	1.40	1.33
1	fl	68	MET	CA-CB	5.03	1.61	1.53
1	fm	45	GLU	C-O	-5.03	1.17	1.24
1	ft	203	LYS	C-N	5.03	1.40	1.33
1	fS	151	LEU	C-N	5.03	1.40	1.33
1	f	75	GLU	C-N	5.03	1.41	1.34
1	j	80	TRP	CD2-CE2	5.03	1.50	1.41
1	A	124	ILE	CA-C	5.03	1.57	1.53
1	D	16	SER	CA-CB	5.03	1.62	1.53
1	H	176	GLN	C-O	5.03	1.30	1.24
1	gf	97	ARG	CD-NE	5.03	1.53	1.46
1	1D	123	PRO	C-N	5.03	1.37	1.33
1	1I	148	THR	N-CA	-5.03	1.39	1.45
1	1I	173	ARG	N-CA	-5.03	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1L	202	LEU	C-N	5.03	1.40	1.33
1	hX	29	GLU	CA-CB	5.03	1.61	1.53
1	i4	196	PRO	C-N	5.03	1.40	1.33
1	ii	33	SER	CA-C	5.03	1.58	1.52
1	iy	162	ARG	CD-NE	5.03	1.53	1.46
1	iJ	104	ILE	CA-C	5.03	1.58	1.52
1	iR	114	GLN	CA-C	-5.03	1.46	1.52
1	iW	11	VAL	C-N	5.03	1.40	1.33
1	j0	120	HIS	CB-CG	5.03	1.57	1.50
1	j4	226	HIS	CG-ND1	-5.03	1.32	1.38
1	jb	11	VAL	C-N	5.03	1.40	1.33
1	jt	83	LEU	N-CA	-5.03	1.40	1.46
1	jv	131	LYS	CA-CB	5.03	1.61	1.53
1	jw	197	ASP	N-CA	5.03	1.52	1.46
1	jC	184	TRP	N-CA	-5.03	1.40	1.46
1	jO	211	LEU	N-CA	-5.03	1.40	1.46
1	jY	188	THR	C-N	5.03	1.40	1.33
1	kv	153	ILE	CA-CB	-5.03	1.47	1.54
1	24	86	VAL	CA-CB	-5.03	1.47	1.54
1	kZ	197	ASP	N-CA	-5.03	1.40	1.46
1	lk	192	GLN	CB-CG	5.03	1.67	1.52
1	lH	100	ARG	N-CA	-5.03	1.39	1.45
1	lP	143	ARG	CA-C	5.03	1.59	1.52
1	2c	42	ALA	CA-CB	5.03	1.61	1.53
1	2l	225	GLY	C-N	5.03	1.40	1.33
1	2m	153	ILE	CA-C	5.03	1.58	1.52
1	2v	124	ILE	CA-CB	-5.03	1.49	1.54
1	2v	168	PHE	CA-CB	5.03	1.61	1.53
1	2Z	104	ILE	CA-C	-5.03	1.46	1.52
1	31	53	ASN	CA-CB	5.03	1.61	1.53
1	3b	183	ASN	CA-C	-5.03	1.46	1.52
1	3h	165	VAL	C-O	5.03	1.30	1.24
1	3i	40	PHE	C-N	5.03	1.40	1.33
1	4f	8	GLY	C-N	5.03	1.40	1.33
1	5d	122	PRO	C-N	-5.03	1.27	1.33
1	5k	129	ILE	CA-CB	-5.03	1.48	1.54
1	5J	192	GLN	CA-CB	5.03	1.61	1.53
1	5P	23	TRP	CA-C	5.03	1.59	1.52
1	6h	191	VAL	N-CA	-5.03	1.39	1.46
1	6i	212	GLU	CA-C	5.03	1.59	1.52
1	6j	44	SER	CA-CB	5.03	1.61	1.53
1	79	30	LYS	C-N	5.03	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7e	79	GLU	CA-CB	5.03	1.61	1.53
1	89	219	GLN	CA-CB	5.03	1.61	1.53
1	8n	17	PRO	N-CA	-5.03	1.40	1.47
1	8Z	33	SER	N-CA	-5.03	1.40	1.46
1	9e	58	THR	N-CA	5.03	1.52	1.46
1	9g	214	MET	CA-CB	5.03	1.61	1.53
1	9n	44	SER	CA-CB	5.03	1.59	1.53
1	9q	160	PRO	N-CA	-5.03	1.40	1.47
1	9Q	205	LEU	CA-CB	5.03	1.61	1.53
1	9V	38	PRO	N-CA	-5.03	1.40	1.47
1	9Z	31	ALA	C-O	-5.03	1.20	1.24
1	ai	73	ILE	CB-CG1	5.03	1.63	1.53
1	aj	187	GLU	CA-CB	5.03	1.61	1.53
1	ax	85	PRO	CA-CB	-5.03	1.46	1.53
1	aS	49	PRO	N-CA	-5.03	1.40	1.47
1	b9	17	PRO	CA-C	5.03	1.59	1.52
1	bu	222	GLY	C-N	5.03	1.41	1.33
1	1a	207	PRO	N-CA	-5.03	1.40	1.47
1	1c	47	ALA	N-CA	-5.03	1.39	1.46
1	ca	69	LEU	N-CA	-5.03	1.40	1.46
1	cm	173	ARG	CD-NE	5.03	1.53	1.46
1	cN	160	PRO	CA-C	5.03	1.59	1.52
1	cV	69	LEU	CA-C	5.03	1.59	1.52
1	cW	187	GLU	CA-C	-5.03	1.46	1.52
1	dc	159	GLU	C-N	5.03	1.39	1.34
1	dh	139	ASN	CA-C	5.03	1.59	1.52
1	dk	103	ASP	CA-C	-5.03	1.46	1.52
1	dq	137	GLY	C-N	5.03	1.40	1.33
1	1l	13	GLN	CA-C	5.03	1.58	1.52
1	e8	62	HIS	ND1-CE1	5.03	1.37	1.32
1	e9	76	GLU	C-O	5.03	1.30	1.24
1	1q	54	THR	C-N	5.03	1.40	1.33
1	en	87	HIS	CG-ND1	-5.03	1.32	1.38
1	eC	185	MET	N-CA	-5.03	1.40	1.46
1	eX	107	THR	CA-C	-5.03	1.45	1.52
1	f9	110	THR	CA-C	-5.03	1.46	1.53
1	fc	161	PHE	CA-CB	5.03	1.61	1.53
1	ff	40	PHE	CA-CB	5.03	1.61	1.53
1	fg	62	HIS	ND1-CE1	-5.03	1.27	1.32
1	fu	180	GLU	CA-CB	5.03	1.61	1.53
1	1y	34	PRO	C-N	5.03	1.41	1.33
1	r	82	ARG	CA-CB	-5.03	1.45	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	s	117	TRP	NE1-CE2	-5.03	1.31	1.37
1	S	177	ALA	CA-C	5.03	1.59	1.52
1	gf	51	ASP	N-CA	-5.03	1.40	1.46
1	gi	37	ILE	CB-CG1	5.03	1.63	1.53
1	gD	35	GLU	CA-CB	5.03	1.62	1.53
1	gG	154	ARG	CD-NE	5.03	1.53	1.46
1	gJ	28	GLU	CA-C	5.03	1.59	1.52
1	1F	83	LEU	CA-CB	5.03	1.61	1.53
1	1G	35	GLU	CA-C	-5.03	1.45	1.52
1	h2	52	LEU	CA-C	5.03	1.59	1.52
1	1H	120	HIS	CD2-NE2	5.03	1.43	1.37
1	he	87	HIS	CA-CB	5.03	1.61	1.53
1	hh	89	GLY	N-CA	5.03	1.51	1.44
1	hm	111	LEU	N-CA	5.03	1.52	1.46
1	hr	77	ALA	CA-C	5.03	1.59	1.52
1	hr	200	THR	C-O	5.03	1.30	1.24
1	ht	4	GLN	C-N	5.03	1.39	1.33
1	hu	174	ALA	CA-C	5.03	1.59	1.52
1	hJ	52	LEU	CA-CB	5.03	1.61	1.53
1	hL	138	LEU	CA-C	-5.03	1.46	1.52
1	hQ	67	GLN	CA-C	-5.03	1.46	1.52
1	hX	178	SER	C-N	5.03	1.40	1.33
1	ia	211	LEU	C-N	5.03	1.40	1.33
1	ic	44	SER	N-CA	5.03	1.52	1.46
1	ie	135	ILE	CA-CB	-5.03	1.48	1.54
1	im	11	VAL	CA-C	5.03	1.58	1.52
1	iN	184	TRP	C-O	-5.03	1.18	1.24
1	iP	205	LEU	N-CA	-5.03	1.40	1.46
1	iW	208	ALA	CA-C	5.03	1.59	1.52
1	j7	116	GLY	C-N	5.03	1.40	1.33
1	ju	67	GLN	CA-C	5.03	1.59	1.52
1	jS	87	HIS	CB-CG	5.03	1.57	1.50
1	k9	42	ALA	N-CA	5.03	1.52	1.46
1	ky	22	ALA	N-CA	-5.03	1.40	1.46
1	kG	202	LEU	C-N	5.03	1.40	1.33
1	kT	214	MET	C-N	5.03	1.40	1.34
1	l1	217	ALA	C-N	5.03	1.40	1.33
1	ld	92	GLU	C-N	-5.03	1.29	1.33
1	lj	25	LYS	C-N	5.03	1.40	1.33
1	ll	172	LEU	C-O	5.03	1.30	1.24
1	lz	226	HIS	CA-CB	5.03	1.61	1.53
1	lG	107	THR	N-CA	5.03	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2b	82	ARG	C-N	-5.03	1.27	1.33
1	2c	155	GLN	N-CA	-5.03	1.40	1.46
1	2o	160	PRO	N-CA	-5.03	1.40	1.47
1	2y	189	LEU	C-N	-5.03	1.27	1.33
1	2G	146	SER	CA-CB	5.03	1.60	1.53
1	35	113	GLU	N-CA	-5.03	1.40	1.46
1	3e	189	LEU	N-CA	-5.03	1.40	1.46
1	3l	67	GLN	N-CA	-5.03	1.40	1.46
1	3p	25	LYS	CA-C	5.03	1.59	1.52
1	3B	45	GLU	C-N	5.03	1.40	1.33
1	3G	74	ASN	N-CA	-5.03	1.40	1.46
1	3G	117	TRP	NE1-CE2	-5.03	1.31	1.37
1	41	12	HIS	ND1-CE1	5.03	1.37	1.32
1	43	143	ARG	CD-NE	5.03	1.53	1.46
1	4g	120	HIS	ND1-CE1	5.03	1.37	1.32
1	4p	69	LEU	CA-C	-5.03	1.46	1.52
1	4M	123	PRO	N-CA	-5.03	1.41	1.47
1	50	146	SER	CA-CB	5.03	1.61	1.53
1	53	99	PRO	CA-C	-5.03	1.47	1.53
1	5b	153	ILE	CA-C	5.03	1.58	1.52
1	5p	80	TRP	C-O	-5.03	1.18	1.24
1	5A	142	VAL	CA-C	5.03	1.59	1.52
1	5Q	79	GLU	C-N	5.03	1.40	1.33
1	5T	117	TRP	NE1-CE2	5.03	1.43	1.37
1	5W	155	GLN	N-CA	-5.03	1.39	1.46
1	6c	119	THR	C-N	5.03	1.40	1.33
1	6e	108	THR	C-O	-5.03	1.17	1.24
1	6k	120	HIS	CG-CD2	5.03	1.41	1.35
1	6s	74	ASN	CG-ND2	5.03	1.43	1.33
1	6w	64	ALA	C-N	-5.03	1.27	1.33
1	6Q	75	GLU	CA-C	5.03	1.59	1.52
1	7i	87	HIS	CA-C	5.03	1.59	1.52
1	7v	4	GLN	CA-C	5.03	1.59	1.52
1	7A	104	ILE	CA-CB	5.03	1.60	1.54
1	7F	80	TRP	N-CA	-5.03	1.40	1.46
1	7L	5	ASN	CA-C	5.03	1.59	1.52
1	7S	105	ALA	CA-C	5.03	1.59	1.52
1	7Y	209	ALA	C-N	5.03	1.40	1.33
1	86	119	THR	C-N	5.03	1.40	1.33
1	8a	29	GLU	CA-CB	5.03	1.61	1.53
1	8e	171	THR	N-CA	5.03	1.52	1.46
1	8h	115	ILE	C-N	5.03	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8k	26	VAL	CA-CB	-5.03	1.48	1.54
1	8E	9	GLN	C-N	5.03	1.40	1.33
1	8W	68	MET	N-CA	5.03	1.52	1.46
1	90	139	ASN	CA-C	5.03	1.59	1.52
1	92	83	LEU	N-CA	-5.03	1.40	1.46
1	9d	175	GLU	N-CA	-5.03	1.39	1.46
1	9h	200	THR	C-N	5.03	1.40	1.33
1	9o	175	GLU	CA-CB	5.03	1.61	1.53
1	9r	51	ASP	CA-CB	5.03	1.61	1.53
1	9F	13	GLN	CA-C	5.03	1.58	1.52
1	9F	97	ARG	CD-NE	5.03	1.53	1.46
1	9O	167	ARG	CD-NE	5.03	1.53	1.46
1	9Z	163	ASP	N-CA	5.03	1.52	1.46
1	a5	6	LEU	C-N	5.03	1.39	1.33
1	a7	205	LEU	CA-CB	5.03	1.61	1.53
1	10	107	THR	CB-OG1	-5.03	1.35	1.43
1	ab	103	ASP	C-N	5.03	1.40	1.33
1	ag	65	ALA	N-CA	-5.03	1.40	1.46
1	ap	216	THR	CA-C	5.03	1.59	1.52
1	aI	41	SER	C-N	5.03	1.40	1.33
1	aT	173	ARG	CD-NE	5.03	1.53	1.46
1	aV	205	LEU	CA-C	5.03	1.59	1.52
1	b3	140	LYS	CA-C	-5.03	1.45	1.52
1	b9	222	GLY	CA-C	5.03	1.58	1.51
1	be	45	GLU	CA-CB	5.03	1.61	1.53
1	bf	217	ALA	C-N	5.03	1.40	1.33
1	bi	224	PRO	CA-C	-5.03	1.47	1.52
1	bJ	23	TRP	N-CA	5.03	1.52	1.46
1	bT	153	ILE	CA-CB	-5.03	1.49	1.54
1	bY	191	VAL	CA-CB	-5.03	1.48	1.54
1	c2	96	MET	C-N	5.03	1.40	1.33
1	c3	188	THR	C-N	5.03	1.40	1.33
1	c7	125	PRO	N-CA	5.03	1.51	1.47
1	cc	224	PRO	CA-CB	5.03	1.61	1.53
1	cj	195	ASN	CA-C	5.03	1.58	1.53
1	cy	72	THR	CB-OG1	5.03	1.51	1.43
1	cY	120	HIS	ND1-CE1	5.03	1.37	1.32
1	d2	217	ALA	CA-C	5.03	1.58	1.52
1	1i	88	ALA	C-N	5.03	1.41	1.33
1	d5	33	SER	CA-CB	5.03	1.61	1.54
1	dq	40	PHE	CA-CB	5.03	1.61	1.53
1	dG	96	MET	CA-C	-5.03	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	eb	168	PHE	CA-CB	5.03	1.61	1.53
1	ec	87	HIS	CA-C	5.03	1.59	1.52
1	ee	136	LEU	CA-C	-5.03	1.46	1.52
1	eg	97	ARG	CA-CB	5.03	1.60	1.53
1	ep	69	LEU	CA-CB	5.03	1.61	1.53
1	ex	83	LEU	CA-C	-5.03	1.45	1.52
1	eA	85	PRO	N-CA	-5.03	1.40	1.47
1	eI	71	GLU	CA-C	-5.03	1.46	1.52
1	f8	63	GLN	C-N	5.03	1.40	1.34
1	fd	225	GLY	CA-C	-5.03	1.46	1.52
1	fn	98	GLU	N-CA	5.03	1.53	1.45
1	1x	53	ASN	CA-CB	5.03	1.61	1.53
1	fI	120	HIS	CE1-NE2	5.03	1.37	1.32
1	fK	133	TRP	CA-CB	5.03	1.61	1.53
1	fR	167	ARG	CZ-NH1	-5.03	1.25	1.32
1	fU	205	LEU	CA-C	-5.03	1.46	1.52
1	fZ	198	CYS	N-CA	5.03	1.52	1.46
1	h	207	PRO	N-CD	-5.03	1.40	1.47
1	v	160	PRO	N-CA	-5.03	1.41	1.47
1	T	207	PRO	N-CA	5.03	1.53	1.47
1	gm	41	SER	N-CA	-5.03	1.40	1.46
1	ho	59	VAL	N-CA	5.03	1.52	1.46
1	hD	204	ALA	CA-CB	5.03	1.61	1.53
1	iI	27	VAL	C-N	5.03	1.40	1.33
1	iO	208	ALA	CA-C	-5.03	1.46	1.53
1	je	168	PHE	CA-CB	5.03	1.61	1.53
1	jl	102	SER	N-CA	-5.03	1.39	1.46
1	jw	214	MET	CA-C	-5.03	1.46	1.52
1	jG	36	VAL	C-N	-5.03	1.27	1.34
1	jH	78	ALA	CA-C	-5.03	1.46	1.52
1	jL	120	HIS	C-N	5.03	1.38	1.33
1	k1	30	LYS	CA-C	5.03	1.59	1.52
1	k4	7	GLN	CA-C	5.03	1.59	1.52
1	20	14	ALA	CA-C	-5.03	1.46	1.52
1	kg	140	LYS	C-N	5.03	1.40	1.33
1	kw	121	ASN	CA-C	-5.03	1.48	1.52
1	ly	134	ILE	N-CA	-5.03	1.40	1.46
1	lA	163	ASP	N-CA	-5.03	1.40	1.46
1	2O	59	VAL	CA-C	-5.03	1.47	1.52
1	2U	83	LEU	C-N	5.03	1.40	1.33
1	34	163	ASP	N-CA	5.03	1.52	1.46
1	3i	107	THR	C-N	5.03	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	46	112	GLN	N-CA	5.03	1.52	1.46
1	4W	133	TRP	CA-C	5.03	1.59	1.52
1	57	14	ALA	CA-C	-5.03	1.46	1.52
1	5b	139	ASN	CA-C	5.03	1.59	1.52
1	5P	84	HIS	CD2-NE2	5.03	1.43	1.37
1	5P	216	THR	N-CA	5.03	1.52	1.46
1	62	137	GLY	CA-C	-5.03	1.46	1.52
1	6a	196	PRO	C-O	-5.03	1.18	1.24
1	77	86	VAL	CA-CB	-5.03	1.47	1.54
1	7c	99	PRO	CA-C	5.03	1.58	1.52
1	7u	59	VAL	N-CA	-5.03	1.40	1.46
1	8N	85	PRO	C-N	5.03	1.40	1.33
1	90	141	ILE	CA-CB	-5.03	1.48	1.54
1	9P	23	TRP	C-N	5.03	1.40	1.33
1	9U	87	HIS	N-CA	-5.03	1.38	1.45
1	a5	115	ILE	C-N	5.03	1.40	1.33
1	ae	185	MET	CA-C	5.03	1.59	1.52
1	aZ	75	GLU	CA-C	5.03	1.59	1.52
1	18	207	PRO	CA-C	5.03	1.60	1.52
1	bz	215	MET	C-O	-5.03	1.18	1.24
1	bN	55	MET	N-CA	-5.03	1.40	1.46
1	bQ	100	ARG	CA-CB	5.03	1.60	1.53
1	ci	3	VAL	C-O	5.03	1.28	1.24
1	cD	128	GLU	C-N	5.03	1.40	1.33
1	d5	42	ALA	CA-C	5.03	1.59	1.52
1	du	106	GLY	CA-C	-5.03	1.43	1.51
1	dH	125	PRO	CA-C	-5.03	1.47	1.53
1	e0	94	GLY	N-CA	5.03	1.52	1.45
1	1s	47	ALA	C-O	-5.03	1.18	1.24
1	eV	162	ARG	CZ-NH1	-5.03	1.25	1.32
1	f1	69	LEU	CA-CB	5.03	1.61	1.53
1	1v	153	ILE	N-CA	-5.03	1.40	1.46
1	R	116	GLY	CA-C	5.03	1.57	1.52
1	g8	118	MET	CA-C	5.03	1.59	1.52
1	1C	59	VAL	CA-C	5.03	1.59	1.52
1	gy	62	HIS	ND1-CE1	5.03	1.37	1.32
1	gE	81	ASP	CA-CB	5.03	1.61	1.53
1	gF	170	LYS	CA-C	5.03	1.59	1.52
1	gK	18	ARG	CA-CB	5.03	1.61	1.53
1	gV	138	LEU	N-CA	-5.03	1.40	1.46
1	ha	163	ASP	CA-CB	5.03	1.61	1.53
1	ha	228	ALA	CA-CB	5.03	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hu	189	LEU	C-N	5.03	1.40	1.33
1	hx	125	PRO	N-CD	-5.03	1.40	1.47
1	hx	204	ALA	N-CA	5.03	1.52	1.46
1	hH	25	LYS	C-N	5.03	1.40	1.33
1	hO	201	ILE	C-N	5.03	1.40	1.33
1	hP	145	TYR	N-CA	5.03	1.52	1.46
1	hX	87	HIS	ND1-CE1	5.03	1.37	1.32
1	hY	148	THR	N-CA	5.03	1.52	1.46
1	i3	129	ILE	N-CA	-5.03	1.41	1.46
1	ic	201	ILE	C-N	5.03	1.40	1.33
1	iz	16	SER	C-N	5.03	1.41	1.33
1	iL	147	PRO	N-CD	5.03	1.54	1.47
1	j2	186	THR	C-N	5.03	1.40	1.34
1	ji	84	HIS	ND1-CE1	5.03	1.37	1.32
1	jR	2	ILE	CA-C	-5.03	1.47	1.52
1	jZ	223	GLY	C-N	-5.03	1.29	1.34
1	kc	20	LEU	CA-CB	5.03	1.61	1.53
1	kf	59	VAL	C-O	-5.03	1.18	1.24
1	ko	168	PHE	CA-C	-5.03	1.46	1.52
1	kG	132	ARG	CA-C	5.03	1.59	1.52
1	25	120	HIS	CA-C	-5.03	1.46	1.53
1	kZ	127	GLY	C-N	5.03	1.40	1.33
1	26	169	TYR	CA-C	-5.03	1.45	1.52
1	l8	167	ARG	NE-CZ	-5.03	1.27	1.33
1	lF	79	GLU	N-CA	5.03	1.52	1.46
1	lM	109	SER	N-CA	-5.03	1.39	1.46
1	2b	133	TRP	CA-C	-5.03	1.46	1.52
1	2b	175	GLU	C-N	5.03	1.40	1.33
1	2l	162	ARG	C-N	5.03	1.40	1.33
1	2q	65	ALA	CA-C	-5.03	1.46	1.52
1	2w	162	ARG	CD-NE	5.03	1.53	1.46
1	2A	124	ILE	CA-C	-5.03	1.49	1.53
1	2X	87	HIS	CE1-NE2	-5.03	1.27	1.32
1	2X	200	THR	CB-OG1	-5.03	1.35	1.43
1	37	79	GLU	N-CA	5.03	1.52	1.46
1	3c	84	HIS	N-CA	5.03	1.53	1.46
1	3f	204	ALA	CA-C	5.03	1.59	1.52
1	3r	92	GLU	C-N	5.03	1.40	1.33
1	3r	128	GLU	C-N	5.03	1.40	1.33
1	3v	24	VAL	CA-C	5.03	1.60	1.52
1	3x	92	GLU	C-N	-5.03	1.26	1.33
1	3B	87	HIS	CD2-NE2	5.03	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3O	21	ASN	CA-CB	5.03	1.61	1.53
1	3T	92	GLU	CA-C	5.03	1.58	1.52
1	44	200	THR	CA-C	5.03	1.59	1.52
1	49	47	ALA	CA-CB	5.03	1.60	1.53
1	4c	80	TRP	N-CA	-5.03	1.40	1.46
1	4l	1	PRO	N-CA	5.03	1.54	1.47
1	4l	157	PRO	C-O	-5.03	1.18	1.24
1	4r	159	GLU	CA-C	5.03	1.58	1.52
1	4w	173	ARG	N-CA	-5.03	1.40	1.46
1	4I	90	PRO	CA-C	-5.03	1.45	1.52
1	4M	125	PRO	C-N	5.03	1.40	1.33
1	4P	116	GLY	CA-C	5.03	1.58	1.51
1	4S	223	GLY	N-CA	5.03	1.51	1.44
1	4U	160	PRO	CA-CB	-5.03	1.46	1.53
1	52	9	GLN	CD-NE2	5.03	1.43	1.33
1	5x	62	HIS	CA-CB	-5.03	1.46	1.53
1	5Q	169	TYR	C-N	5.03	1.40	1.33
1	5V	220	GLY	N-CA	5.03	1.52	1.45
1	68	161	PHE	CA-CB	5.03	1.61	1.53
1	6d	40	PHE	CA-CB	5.03	1.61	1.53
1	6r	19	THR	C-N	5.03	1.40	1.33
1	6s	135	ILE	CB-CG1	5.03	1.63	1.53
1	6u	190	LEU	CA-CB	5.03	1.61	1.53
1	6z	10	MET	CA-CB	5.03	1.62	1.53
1	75	171	THR	CA-CB	5.03	1.61	1.53
1	7a	141	ILE	C-N	5.03	1.40	1.33
1	7k	139	ASN	C-N	5.03	1.40	1.33
1	7s	60	GLY	CA-C	-5.03	1.44	1.51
1	7B	211	LEU	C-N	5.03	1.40	1.33
1	7D	38	PRO	C-N	5.03	1.40	1.33
1	7H	159	GLU	CA-C	5.03	1.59	1.53
1	7K	131	LYS	C-O	-5.03	1.18	1.24
1	7N	15	ILE	CA-CB	5.03	1.60	1.54
1	7O	215	MET	N-CA	-5.03	1.40	1.46
1	7Q	30	LYS	CA-C	5.03	1.59	1.52
1	7X	69	LEU	CA-CB	5.03	1.61	1.53
1	8a	119	THR	CB-OG1	5.03	1.51	1.43
1	8g	110	THR	C-N	5.03	1.40	1.33
1	8I	29	GLU	C-O	5.03	1.30	1.24
1	8M	207	PRO	N-CA	5.03	1.53	1.47
1	9u	215	MET	CA-C	-5.03	1.46	1.52
1	9y	50	GLN	CA-C	5.03	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9B	202	LEU	N-CA	5.03	1.52	1.46
1	9C	83	LEU	CA-C	5.03	1.59	1.52
1	9M	87	HIS	N-CA	5.03	1.52	1.46
1	Y	36	VAL	CA-C	-5.03	1.45	1.52
1	9W	87	HIS	ND1-CE1	5.03	1.37	1.32
1	a8	104	ILE	CA-C	5.03	1.58	1.52
1	b3	120	HIS	CA-C	-5.03	1.46	1.53
1	b3	130	TYR	N-CA	-5.03	1.40	1.46
1	bh	64	ALA	C-N	5.03	1.40	1.33
1	bi	46	GLY	C-N	5.03	1.40	1.33
1	bi	127	GLY	C-N	5.03	1.40	1.33
1	bl	147	PRO	N-CA	-5.03	1.40	1.47
1	bl	162	ARG	CA-C	5.03	1.59	1.52
1	bu	158	LYS	CA-CB	5.03	1.60	1.53
1	bw	74	ASN	CA-CB	5.03	1.61	1.53
1	bY	139	ASN	CA-C	-5.03	1.46	1.52
1	bY	229	ARG	CD-NE	5.03	1.53	1.46
1	c1	120	HIS	ND1-CE1	5.03	1.37	1.32
1	c4	97	ARG	CD-NE	5.03	1.53	1.46
1	cD	36	VAL	C-O	-5.03	1.18	1.24
1	cH	126	VAL	C-N	5.03	1.40	1.33
1	cN	202	LEU	N-CA	5.03	1.52	1.46
1	cO	158	LYS	CA-C	5.03	1.60	1.52
1	1h	226	HIS	CA-CB	5.03	1.62	1.54
1	d6	121	ASN	C-N	-5.03	1.24	1.34
1	do	171	THR	C-O	5.03	1.29	1.24
1	dr	87	HIS	CD2-NE2	5.03	1.43	1.37
1	dB	50	GLN	C-O	-5.03	1.18	1.24
1	dH	43	LEU	CA-C	5.03	1.59	1.52
1	dQ	166	ASP	N-CA	-5.03	1.40	1.46
1	dW	115	ILE	CA-C	-5.03	1.46	1.52
1	1p	201	ILE	C-N	5.03	1.40	1.33
1	eB	112	GLN	C-N	5.03	1.39	1.33
1	eT	42	ALA	C-N	5.03	1.40	1.33
1	fa	21	ASN	CA-C	5.03	1.59	1.52
1	fi	33	SER	N-CA	-5.03	1.41	1.46
1	fv	120	HIS	CG-CD2	-5.03	1.30	1.35
1	fB	143	ARG	CD-NE	5.03	1.53	1.46
1	fS	90	PRO	C-N	5.03	1.39	1.33
1	fY	88	ALA	CA-C	5.03	1.59	1.52
1	m	43	LEU	CA-CB	5.03	1.61	1.53
1	I	166	ASP	N-CA	5.03	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	J	104	ILE	CA-C	5.03	1.58	1.52
1	L	178	SER	CA-C	5.03	1.58	1.52
1	N	120	HIS	CA-C	5.03	1.59	1.52
1	S	226	HIS	CD2-NE2	5.03	1.43	1.37
1	T	169	TYR	CA-C	5.03	1.59	1.52
1	gc	49	PRO	N-CD	5.03	1.54	1.47
1	gh	191	VAL	CA-CB	5.03	1.59	1.54
1	gi	183	ASN	CA-C	-5.03	1.46	1.52
1	gj	148	THR	CA-CB	5.03	1.61	1.53
1	gm	126	VAL	C-N	5.03	1.40	1.33
1	gH	5	ASN	CA-CB	5.03	1.62	1.52
1	gS	18	ARG	CA-CB	5.03	1.61	1.53
1	gT	134	ILE	CA-CB	-5.03	1.47	1.54
1	hc	164	TYR	C-N	5.03	1.40	1.33
1	hn	3	VAL	CA-CB	-5.03	1.49	1.54
1	hn	151	LEU	C-N	5.03	1.40	1.33
1	hq	153	ILE	C-O	5.03	1.28	1.23
1	iY	80	TRP	CA-CB	5.03	1.61	1.53
1	j0	94	GLY	C-O	-5.03	1.17	1.24
1	j5	114	GLN	N-CA	-5.03	1.40	1.46
1	je	75	GLU	CA-CB	5.03	1.61	1.53
1	jf	135	ILE	C-N	5.03	1.40	1.33
1	jh	15	ILE	C-O	-5.03	1.18	1.24
1	1X	192	GLN	CA-CB	5.03	1.61	1.53
1	jM	203	LYS	C-N	5.03	1.40	1.33
1	k2	33	SER	CA-CB	5.03	1.61	1.54
1	k5	137	GLY	N-CA	5.03	1.52	1.45
1	21	116	GLY	CA-C	-5.03	1.46	1.52
1	kx	101	GLY	CA-C	-5.03	1.46	1.52
1	kA	219	GLN	C-O	-5.03	1.18	1.24
1	l4	71	GLU	C-N	5.03	1.40	1.33
1	l4	166	ASP	CA-C	-5.03	1.46	1.52
1	lh	70	LYS	CA-C	5.03	1.59	1.52
1	lx	107	THR	CA-C	5.03	1.59	1.52
1	lE	10	MET	CA-C	5.03	1.59	1.52
1	lR	212	GLU	CA-CB	5.03	1.61	1.53
1	2c	134	ILE	N-CA	5.03	1.52	1.46
1	2h	133	TRP	NE1-CE2	-5.03	1.31	1.37
1	2B	80	TRP	CZ2-CH2	5.03	1.46	1.37
1	2D	131	LYS	N-CA	-5.03	1.40	1.46
1	2G	155	GLN	CA-CB	-5.03	1.46	1.53
1	3t	213	GLU	C-O	-5.03	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3G	38	PRO	N-CA	-5.03	1.40	1.47
1	3K	222	GLY	CA-C	-5.03	1.46	1.52
1	3T	67	GLN	CA-CB	5.03	1.61	1.53
1	44	229	ARG	CA-CB	5.03	1.61	1.53
1	4o	13	GLN	CA-CB	5.03	1.62	1.53
1	4t	204	ALA	C-O	-5.03	1.18	1.24
1	4u	155	GLN	CG-CD	5.03	1.64	1.52
1	4z	176	GLN	CD-OE1	-5.03	1.14	1.23
1	5s	20	LEU	CA-CB	5.03	1.61	1.53
1	5I	134	ILE	C-N	5.03	1.40	1.33
1	5L	24	VAL	CA-C	5.03	1.59	1.52
1	62	64	ALA	CA-CB	5.03	1.61	1.53
1	6e	4	GLN	CA-C	5.03	1.59	1.52
1	6g	230	VAL	C-N	5.03	1.40	1.33
1	6l	38	PRO	C-N	5.03	1.40	1.33
1	6p	130	TYR	C-O	-5.03	1.18	1.24
1	6L	62	HIS	CB-CG	-5.03	1.43	1.50
1	7h	42	ALA	C-N	5.03	1.41	1.33
1	7l	195	ASN	CA-C	5.03	1.58	1.52
1	7J	182	LYS	C-N	5.03	1.40	1.33
1	7M	184	TRP	C-N	5.03	1.40	1.33
1	7X	92	GLU	CA-CB	5.03	1.60	1.53
1	80	226	HIS	CD2-NE2	5.03	1.43	1.37
1	87	108	THR	C-O	-5.03	1.17	1.24
1	88	84	HIS	CE1-NE2	5.03	1.37	1.32
1	8u	135	ILE	CA-C	5.03	1.59	1.52
1	8U	191	VAL	CA-CB	5.03	1.60	1.54
1	8V	166	ASP	CA-C	5.03	1.59	1.52
1	9i	200	THR	CA-CB	5.03	1.61	1.53
1	9y	91	ILE	N-CA	-5.03	1.40	1.46
1	9z	59	VAL	C-N	5.03	1.40	1.33
1	9B	173	ARG	CA-C	5.03	1.59	1.52
1	9P	44	SER	CA-C	-5.03	1.46	1.52
1	a6	115	ILE	CA-CB	-5.03	1.48	1.54
1	am	3	VAL	CA-C	5.03	1.59	1.52
1	ar	186	THR	CB-OG1	-5.03	1.35	1.43
1	aw	66	MET	CA-CB	5.03	1.61	1.53
1	aD	100	ARG	CA-C	-5.03	1.46	1.53
1	aG	52	LEU	C-N	5.03	1.40	1.33
1	aN	72	THR	N-CA	5.03	1.52	1.46
1	aN	111	LEU	CA-C	-5.03	1.46	1.52
1	aS	116	GLY	N-CA	5.03	1.52	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	aX	160	PRO	CA-CB	5.03	1.60	1.53
1	b6	132	ARG	N-CA	5.03	1.52	1.46
1	ba	156	GLY	CA-C	-5.03	1.44	1.51
1	ba	190	LEU	CA-CB	5.03	1.61	1.53
1	bw	184	TRP	N-CA	5.03	1.52	1.46
1	bD	167	ARG	CD-NE	5.03	1.53	1.46
1	bR	176	GLN	CA-C	5.03	1.59	1.53
1	1c	87	HIS	CA-CB	5.03	1.60	1.53
1	c7	53	ASN	CA-CB	5.03	1.61	1.53
1	cc	35	GLU	CA-CB	5.03	1.61	1.53
1	cw	96	MET	N-CA	5.03	1.52	1.46
1	cF	30	LYS	C-N	5.03	1.40	1.33
1	1h	120	HIS	CA-C	-5.03	1.46	1.52
1	d2	52	LEU	C-O	-5.03	1.18	1.24
1	da	66	MET	N-CA	5.03	1.52	1.46
1	dj	181	VAL	CA-C	-5.03	1.46	1.52
1	do	95	GLN	CD-NE2	5.03	1.43	1.33
1	dq	161	PHE	C-N	5.03	1.40	1.33
1	dr	162	ARG	CD-NE	5.03	1.53	1.46
1	dI	208	ALA	N-CA	5.03	1.52	1.46
1	dM	98	GLU	CA-CB	5.03	1.60	1.53
1	e4	88	ALA	C-N	5.03	1.41	1.33
1	ea	82	ARG	CD-NE	5.03	1.53	1.46
1	en	156	GLY	CA-C	-5.03	1.44	1.51
1	eI	84	HIS	CG-CD2	5.03	1.41	1.35
1	f4	70	LYS	C-O	-5.03	1.18	1.24
1	fd	207	PRO	CA-C	-5.03	1.43	1.52
1	fo	70	LYS	C-O	-5.03	1.18	1.24
1	fo	193	ASN	CA-C	5.03	1.59	1.52
1	fx	135	ILE	N-CA	-5.03	1.40	1.46
1	fI	202	LEU	N-CA	-5.03	1.39	1.46
1	fR	32	PHE	CG-CD2	5.03	1.49	1.38
1	fT	210	THR	C-N	5.03	1.40	1.33
1	fU	23	TRP	NE1-CE2	-5.03	1.31	1.37
1	1B	37	ILE	CA-CB	5.03	1.57	1.54
1	0	203	LYS	N-CA	-5.03	1.39	1.46
1	c	156	GLY	N-CA	5.03	1.51	1.44
1	E	152	ASP	CA-C	-5.03	1.46	1.52
1	P	111	LEU	CA-C	5.03	1.59	1.52
1	T	11	VAL	CA-CB	5.03	1.62	1.54
1	X	86	VAL	CA-C	5.03	1.58	1.52
1	8	86	VAL	CA-CB	-5.03	1.49	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gc	105	ALA	C-N	5.02	1.41	1.33
1	gf	76	GLU	CA-C	5.02	1.59	1.52
1	gl	177	ALA	CA-C	5.02	1.58	1.52
1	gF	111	LEU	CA-CB	5.02	1.61	1.53
1	gQ	200	THR	N-CA	5.02	1.52	1.46
1	gW	165	VAL	C-N	5.02	1.40	1.33
1	ha	129	ILE	CA-C	5.02	1.60	1.52
1	hm	41	SER	CA-C	-5.02	1.46	1.52
1	hB	179	GLN	CA-C	5.02	1.59	1.52
1	1T	36	VAL	C-N	5.02	1.39	1.33
1	j7	186	THR	C-N	5.02	1.40	1.33
1	1V	121	ASN	CA-C	-5.02	1.48	1.52
1	jP	46	GLY	CA-C	5.02	1.58	1.51
1	k7	16	SER	CA-C	5.02	1.58	1.53
1	ka	70	LYS	C-N	5.02	1.40	1.33
1	kd	199	LYS	CA-C	5.02	1.59	1.52
1	kH	160	PRO	N-CA	-5.02	1.40	1.47
1	26	40	PHE	C-N	5.02	1.40	1.33
1	lf	182	LYS	C-O	-5.02	1.18	1.24
1	2u	80	TRP	CZ2-CH2	5.02	1.46	1.37
1	2w	103	ASP	C-N	5.02	1.40	1.34
1	2F	187	GLU	CA-C	-5.02	1.46	1.52
1	2V	180	GLU	N-CA	-5.02	1.40	1.46
1	2Z	127	GLY	CA-C	-5.02	1.46	1.52
1	32	228	ALA	CA-C	-5.02	1.46	1.52
1	3q	12	HIS	CG-CD2	-5.02	1.30	1.35
1	3w	2	ILE	C-N	5.02	1.39	1.33
1	3O	117	TRP	C-N	5.02	1.41	1.33
1	4s	142	VAL	CA-C	5.02	1.58	1.52
1	4x	51	ASP	CA-CB	5.02	1.61	1.53
1	55	142	VAL	N-CA	-5.02	1.39	1.46
1	56	121	ASN	N-CA	-5.02	1.40	1.46
1	5k	121	ASN	CA-C	-5.02	1.48	1.52
1	5o	174	ALA	N-CA	-5.02	1.40	1.46
1	5N	161	PHE	CA-C	-5.02	1.46	1.52
1	5N	227	LYS	C-N	5.02	1.40	1.33
1	5V	84	HIS	CB-CG	5.02	1.57	1.50
1	6c	42	ALA	CA-CB	-5.02	1.44	1.53
1	6A	127	GLY	N-CA	-5.02	1.39	1.45
1	6P	154	ARG	CD-NE	5.02	1.53	1.46
1	7e	158	LYS	N-CA	5.02	1.52	1.46
1	7y	60	GLY	C-N	5.02	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8r	70	LYS	C-N	5.02	1.40	1.33
1	9j	178	SER	CA-C	-5.02	1.46	1.52
1	9p	27	VAL	C-N	5.02	1.40	1.33
1	9M	223	GLY	C-O	-5.02	1.17	1.24
1	Y	120	HIS	CA-CB	5.02	1.61	1.53
1	9T	215	MET	N-CA	-5.02	1.40	1.46
1	as	101	GLY	C-N	5.02	1.41	1.33
1	au	145	TYR	N-CA	-5.02	1.39	1.46
1	av	170	LYS	CA-CB	5.02	1.61	1.53
1	14	46	GLY	C-N	-5.02	1.26	1.33
1	aV	59	VAL	C-O	-5.02	1.19	1.23
1	bo	207	PRO	C-O	-5.02	1.18	1.24
1	bV	53	ASN	CA-CB	5.02	1.61	1.53
1	bZ	29	GLU	CA-C	5.02	1.59	1.52
1	ck	84	HIS	ND1-CE1	5.02	1.37	1.32
1	cs	120	HIS	CA-CB	5.02	1.61	1.53
1	cR	86	VAL	CA-CB	-5.02	1.49	1.54
1	db	183	ASN	C-N	5.02	1.40	1.33
1	di	138	LEU	C-O	-5.02	1.18	1.24
1	dO	7	GLN	CA-CB	5.02	1.61	1.53
1	dQ	92	GLU	C-N	5.02	1.40	1.33
1	e8	18	ARG	CD-NE	5.02	1.53	1.46
1	eR	103	ASP	C-N	5.02	1.40	1.33
1	f4	71	GLU	N-CA	-5.02	1.40	1.46
1	fr	209	ALA	N-CA	5.02	1.52	1.46
1	N	105	ALA	CA-CB	5.02	1.62	1.53
1	gp	195	ASN	CA-CB	5.02	1.62	1.53
1	gu	171	THR	C-N	5.02	1.40	1.33
1	gw	108	THR	C-N	5.02	1.40	1.33
1	gz	212	GLU	CA-C	5.02	1.59	1.52
1	gA	113	GLU	N-CA	-5.02	1.40	1.46
1	gB	111	LEU	CA-C	-5.02	1.46	1.52
1	gC	129	ILE	CA-C	-5.02	1.46	1.52
1	gG	101	GLY	CA-C	5.02	1.57	1.52
1	gL	178	SER	CA-C	5.02	1.59	1.53
1	gM	122	PRO	C-N	5.02	1.40	1.33
1	gT	3	VAL	CA-CB	-5.02	1.47	1.54
1	1G	99	PRO	C-N	5.02	1.39	1.33
1	h3	32	PHE	CA-CB	5.02	1.60	1.53
1	h3	181	VAL	C-N	5.02	1.40	1.33
1	1H	67	GLN	C-N	5.02	1.40	1.34
1	hm	200	THR	N-CA	5.02	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hq	182	LYS	CA-CB	5.02	1.61	1.53
1	hs	193	ASN	CB-CG	5.02	1.64	1.52
1	hs	221	VAL	N-CA	-5.02	1.40	1.46
1	ht	165	VAL	N-CA	5.02	1.52	1.46
1	ht	217	ALA	C-N	5.02	1.40	1.33
1	hF	70	LYS	CA-CB	5.02	1.61	1.53
1	hR	137	GLY	CA-C	5.02	1.57	1.52
1	hY	198	CYS	CA-CB	5.02	1.61	1.53
1	ic	151	LEU	C-N	5.02	1.41	1.33
1	ii	108	THR	CA-C	-5.02	1.46	1.52
1	1R	57	ASN	C-N	5.02	1.40	1.33
1	iJ	21	ASN	CA-C	5.02	1.59	1.52
1	iQ	217	ALA	CA-C	-5.02	1.46	1.53
1	iW	28	GLU	CA-CB	5.02	1.61	1.53
1	j7	214	MET	C-N	5.02	1.40	1.33
1	ja	205	LEU	CA-CB	5.02	1.61	1.53
1	jb	80	TRP	C-N	-5.02	1.27	1.33
1	ji	215	MET	C-N	5.02	1.40	1.33
1	ju	42	ALA	CA-C	5.02	1.59	1.52
1	1W	9	GLN	N-CA	-5.02	1.39	1.46
1	jD	4	GLN	CA-CB	5.02	1.61	1.53
1	jI	190	LEU	C-N	5.02	1.39	1.33
1	jO	22	ALA	C-O	-5.02	1.18	1.24
1	jT	49	PRO	N-CD	-5.02	1.40	1.47
1	jY	63	GLN	C-N	5.02	1.40	1.33
1	kb	71	GLU	CA-CB	5.02	1.61	1.53
1	kh	176	GLN	CA-CB	5.02	1.60	1.53
1	ku	125	PRO	N-CA	-5.02	1.41	1.47
1	kv	31	ALA	N-CA	5.02	1.52	1.45
1	kv	131	LYS	CA-CB	5.02	1.61	1.53
1	kv	149	SER	CA-CB	5.02	1.61	1.53
1	kx	31	ALA	C-N	5.02	1.40	1.33
1	ky	136	LEU	CB-CG	5.02	1.63	1.53
1	kI	14	ALA	CA-C	5.02	1.58	1.52
1	kJ	80	TRP	C-N	5.02	1.40	1.33
1	kL	90	PRO	N-CA	-5.02	1.40	1.47
1	l6	202	LEU	CA-C	5.02	1.59	1.52
1	l7	113	GLU	CA-CB	5.02	1.61	1.53
1	li	131	LYS	CA-CB	5.02	1.61	1.53
1	ly	167	ARG	C-N	5.02	1.40	1.33
1	29	143	ARG	CZ-NH2	-5.02	1.26	1.33
1	2a	109	SER	C-N	5.02	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	2m	153	ILE	C-O	-5.02	1.19	1.24
1	2s	152	ASP	CA-C	5.02	1.59	1.52
1	2B	12	HIS	CD2-NE2	5.02	1.43	1.37
1	2N	206	GLY	C-N	5.02	1.40	1.34
1	2V	137	GLY	N-CA	5.02	1.52	1.45
1	2W	130	TYR	CA-C	-5.02	1.45	1.52
1	33	96	MET	CA-C	5.02	1.59	1.52
1	3D	18	ARG	N-CA	-5.02	1.40	1.46
1	4i	20	LEU	CA-C	5.02	1.59	1.52
1	4s	90	PRO	CA-CB	5.02	1.60	1.53
1	4D	86	VAL	N-CA	5.02	1.52	1.46
1	4S	24	VAL	C-N	5.02	1.40	1.33
1	4V	141	ILE	CA-C	5.02	1.59	1.52
1	4Y	180	GLU	N-CA	5.02	1.52	1.46
1	53	37	ILE	CA-CB	5.02	1.60	1.54
1	58	154	ARG	CD-NE	5.02	1.53	1.46
1	5e	200	THR	C-N	5.02	1.40	1.33
1	5t	140	LYS	CA-CB	5.02	1.61	1.53
1	5t	169	TYR	CZ-OH	5.02	1.48	1.38
1	5x	180	GLU	CA-C	-5.02	1.45	1.52
1	5z	121	ASN	CA-CB	5.02	1.61	1.53
1	5Z	9	GLN	CA-C	-5.02	1.46	1.52
1	64	98	GLU	CA-C	5.02	1.59	1.53
1	66	87	HIS	CE1-NE2	5.02	1.37	1.32
1	6p	144	MET	CG-SD	5.02	1.93	1.80
1	6t	84	HIS	ND1-CE1	5.02	1.37	1.32
1	6u	182	LYS	C-N	5.02	1.40	1.33
1	6A	110	THR	C-N	5.02	1.40	1.33
1	6L	93	PRO	N-CA	-5.02	1.41	1.47
1	6S	121	ASN	N-CA	-5.02	1.40	1.46
1	6X	220	GLY	C-O	-5.02	1.17	1.23
1	74	36	VAL	CA-C	-5.02	1.46	1.52
1	7m	39	MET	CA-C	5.02	1.59	1.52
1	7t	87	HIS	CB-CG	-5.02	1.43	1.50
1	7y	23	TRP	NE1-CE2	5.02	1.43	1.37
1	7G	166	ASP	CA-C	5.02	1.59	1.52
1	7V	60	GLY	C-N	5.02	1.40	1.33
1	7X	34	PRO	N-CA	5.02	1.53	1.47
1	8a	86	VAL	CA-CB	-5.02	1.46	1.53
1	8A	145	TYR	CA-CB	5.02	1.61	1.53
1	8T	67	GLN	CA-CB	5.02	1.61	1.53
1	8V	186	THR	C-N	5.02	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	8X	195	ASN	CA-CB	5.02	1.60	1.53
1	9c	73	ILE	CA-CB	5.02	1.60	1.54
1	9g	194	ALA	C-N	5.02	1.40	1.33
1	9C	148	THR	CA-C	-5.02	1.46	1.52
1	10	37	ILE	CA-C	5.02	1.56	1.52
1	ad	204	ALA	CA-C	5.02	1.59	1.52
1	ar	26	VAL	N-CA	5.02	1.52	1.46
1	ay	100	ARG	NE-CZ	-5.02	1.27	1.33
1	aI	97	ARG	CA-C	5.02	1.59	1.52
1	aU	24	VAL	N-CA	5.02	1.52	1.46
1	ba	149	SER	CA-C	-5.02	1.46	1.52
1	bd	86	VAL	CA-CB	-5.02	1.49	1.54
1	bB	73	ILE	CA-C	5.02	1.59	1.52
1	bG	30	LYS	CA-CB	5.02	1.61	1.53
1	bU	121	ASN	N-CA	-5.02	1.40	1.46
1	c0	218	CYS	CA-C	5.02	1.59	1.52
1	c7	59	VAL	N-CA	5.02	1.51	1.46
1	cs	49	PRO	N-CA	5.02	1.53	1.47
1	cx	123	PRO	CA-C	-5.02	1.48	1.53
1	cN	60	GLY	N-CA	5.02	1.52	1.45
1	dh	27	VAL	CA-CB	5.02	1.60	1.54
1	ds	229	ARG	CD-NE	5.02	1.53	1.46
1	dA	216	THR	C-N	5.02	1.40	1.33
1	dN	190	LEU	CA-C	5.02	1.59	1.52
1	e1	121	ASN	N-CA	-5.02	1.40	1.46
1	ez	111	LEU	N-CA	-5.02	1.40	1.46
1	1s	69	LEU	N-CA	-5.02	1.40	1.46
1	eR	41	SER	CA-C	5.02	1.59	1.52
1	1v	33	SER	CA-C	-5.02	1.48	1.52
1	fc	62	HIS	CG-CD2	5.02	1.41	1.35
1	fp	212	GLU	C-N	5.02	1.40	1.33
1	fs	68	MET	CA-CB	5.02	1.61	1.53
1	fy	80	TRP	C-O	-5.02	1.18	1.24
1	fB	17	PRO	N-CA	-5.02	1.40	1.47
1	fG	125	PRO	CA-CB	5.02	1.58	1.53
1	fJ	19	THR	CA-C	5.02	1.59	1.52
1	fQ	91	ILE	N-CA	-5.02	1.40	1.46
1	d	91	ILE	CA-C	5.02	1.59	1.52
1	T	226	HIS	CG-ND1	5.02	1.43	1.38
1	U	38	PRO	N-CA	-5.02	1.41	1.47
1	V	24	VAL	CA-CB	-5.02	1.48	1.54
1	W	73	ILE	C-N	5.02	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9	176	GLN	N-CA	-5.02	1.40	1.46
1	gv	42	ALA	N-CA	-5.02	1.40	1.46
1	gy	158	LYS	CA-C	-5.02	1.46	1.53
1	h2	77	ALA	C-O	-5.02	1.18	1.24
1	hb	171	THR	C-N	5.02	1.40	1.33
1	hg	36	VAL	CA-CB	-5.02	1.48	1.54
1	hh	84	HIS	C-N	-5.02	1.27	1.33
1	hw	138	LEU	CA-C	-5.02	1.46	1.52
1	hx	207	PRO	N-CD	-5.02	1.40	1.47
1	hB	225	GLY	C-N	-5.02	1.25	1.33
1	hI	173	ARG	CZ-NH2	-5.02	1.26	1.33
1	hK	109	SER	CA-C	5.02	1.58	1.52
1	hL	213	GLU	CA-CB	5.02	1.61	1.53
1	i2	140	LYS	CA-C	-5.02	1.46	1.52
1	ia	98	GLU	C-O	-5.02	1.17	1.24
1	im	27	VAL	CA-C	5.02	1.60	1.52
1	im	125	PRO	N-CD	-5.02	1.40	1.47
1	iv	199	LYS	C-N	5.02	1.40	1.33
1	j8	192	GLN	N-CA	-5.02	1.39	1.46
1	j9	226	HIS	CG-CD2	5.02	1.41	1.35
1	jc	7	GLN	CA-CB	5.02	1.61	1.54
1	jf	155	GLN	CA-C	-5.02	1.46	1.52
1	jh	140	LYS	CA-C	5.02	1.59	1.52
1	jx	116	GLY	C-N	5.02	1.40	1.34
1	jC	196	PRO	C-N	-5.02	1.26	1.33
1	jP	19	THR	CA-C	-5.02	1.46	1.52
1	1Y	55	MET	CA-C	5.02	1.59	1.52
1	kn	97	ARG	CD-NE	5.02	1.53	1.46
1	kq	23	TRP	NE1-CE2	-5.02	1.31	1.37
1	kB	55	MET	CA-C	-5.02	1.46	1.52
1	kO	176	GLN	N-CA	-5.02	1.39	1.46
1	kU	141	ILE	C-N	-5.02	1.27	1.33
1	27	124	ILE	CA-CB	5.02	1.59	1.53
1	li	218	CYS	CA-CB	5.02	1.61	1.53
1	lt	54	THR	CA-C	5.02	1.59	1.52
1	lv	204	ALA	CA-C	-5.02	1.46	1.52
1	lE	79	GLU	C-N	5.02	1.40	1.33
1	2f	205	LEU	C-O	5.02	1.29	1.24
1	2o	226	HIS	C-O	-5.02	1.17	1.24
1	3i	213	GLU	C-N	5.02	1.40	1.33
1	3r	31	ALA	CA-CB	5.02	1.61	1.53
1	3x	100	ARG	CZ-NH2	-5.02	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3X	93	PRO	CA-CB	5.02	1.60	1.53
1	4U	61	GLY	CA-C	5.02	1.57	1.52
1	50	132	ARG	CB-CG	5.02	1.67	1.52
1	59	55	MET	C-N	5.02	1.40	1.33
1	59	117	TRP	CD1-NE1	5.02	1.48	1.37
1	5e	74	ASN	CA-C	-5.02	1.46	1.52
1	5y	86	VAL	CA-CB	-5.02	1.47	1.54
1	5B	119	THR	C-O	-5.02	1.17	1.24
1	5K	7	GLN	C-O	-5.02	1.17	1.24
1	5K	162	ARG	CA-C	5.02	1.59	1.52
1	6c	84	HIS	CA-CB	5.02	1.60	1.53
1	6g	23	TRP	CA-CB	5.02	1.61	1.53
1	6j	204	ALA	CA-C	5.02	1.59	1.52
1	6p	6	LEU	N-CA	5.02	1.54	1.46
1	6q	200	THR	N-CA	5.02	1.52	1.46
1	6s	90	PRO	CA-C	-5.02	1.46	1.52
1	6y	138	LEU	C-N	5.02	1.40	1.33
1	6N	123	PRO	N-CA	-5.02	1.41	1.46
1	8d	21	ASN	CA-C	-5.02	1.46	1.52
1	8L	139	ASN	CA-CB	5.02	1.61	1.53
1	9y	87	HIS	ND1-CE1	5.02	1.37	1.32
1	9E	160	PRO	C-N	5.02	1.40	1.33
1	9I	117	TRP	CA-CB	5.02	1.61	1.53
1	9P	82	ARG	CA-CB	5.02	1.61	1.53
1	a4	75	GLU	N-CA	-5.02	1.40	1.46
1	a5	215	MET	CA-C	-5.02	1.45	1.52
1	a6	63	GLN	CA-CB	5.02	1.61	1.53
1	aF	19	THR	N-CA	5.02	1.52	1.46
1	b7	24	VAL	CA-CB	-5.02	1.48	1.54
1	b8	112	GLN	C-O	-5.02	1.18	1.24
1	b9	122	PRO	N-CD	-5.02	1.40	1.47
1	17	128	GLU	CA-CB	5.02	1.61	1.53
1	bl	193	ASN	CA-CB	5.02	1.62	1.53
1	bH	128	GLU	CA-C	5.02	1.59	1.52
1	bP	220	GLY	C-N	5.02	1.40	1.33
1	cf	229	ARG	CD-NE	5.02	1.53	1.46
1	cl	115	ILE	CA-C	5.02	1.59	1.52
1	cn	230	VAL	N-CA	-5.02	1.40	1.46
1	cv	130	TYR	CA-CB	5.02	1.61	1.53
1	cF	100	ARG	N-CA	5.02	1.51	1.45
1	dj	13	GLN	CA-C	-5.02	1.46	1.52
1	dv	147	PRO	CA-C	-5.02	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1l	230	VAL	CA-CB	-5.02	1.47	1.53
1	dG	190	LEU	C-N	5.02	1.40	1.33
1	dM	157	PRO	CA-C	-5.02	1.47	1.52
1	dO	197	ASP	CA-CB	5.02	1.61	1.53
1	e9	39	MET	C-N	5.02	1.39	1.33
1	eH	170	LYS	CA-C	5.02	1.59	1.52
1	fj	50	GLN	CA-CB	5.02	1.61	1.53
1	fs	22	ALA	C-N	5.02	1.40	1.33
1	fC	209	ALA	CA-CB	-5.02	1.45	1.53
1	fE	44	SER	C-N	-5.02	1.26	1.33
1	f	159	GLU	CA-C	5.02	1.59	1.52
1	C	196	PRO	CA-CB	-5.02	1.46	1.53
1	M	164	TYR	CA-C	5.02	1.59	1.52
1	5	125	PRO	CA-CB	5.02	1.60	1.53
1	9	122	PRO	N-CD	-5.02	1.40	1.47
1	9	214	MET	CA-CB	5.02	1.61	1.53
1	gc	14	ALA	CA-CB	5.02	1.61	1.53
1	gd	48	THR	CA-C	-5.02	1.46	1.53
1	ge	23	TRP	C-O	5.02	1.29	1.24
1	gl	209	ALA	N-CA	-5.02	1.39	1.46
1	gH	212	GLU	CA-C	-5.02	1.46	1.52
1	gQ	12	HIS	CG-ND1	5.02	1.43	1.38
1	gR	31	ALA	CA-C	5.02	1.59	1.52
1	gX	138	LEU	CA-CB	5.02	1.61	1.53
1	h7	49	PRO	C-N	5.02	1.40	1.33
1	ha	74	ASN	N-CA	5.02	1.52	1.46
1	hf	12	HIS	ND1-CE1	5.02	1.37	1.32
1	hn	139	ASN	CA-C	5.02	1.59	1.52
1	hF	162	ARG	N-CA	5.02	1.52	1.46
1	hQ	10	MET	CA-CB	5.02	1.60	1.53
1	hS	17	PRO	CA-CB	5.02	1.61	1.53
1	i7	32	PHE	N-CA	-5.02	1.40	1.46
1	ih	165	VAL	CA-CB	-5.02	1.47	1.54
1	in	27	VAL	C-O	-5.02	1.18	1.24
1	io	13	GLN	N-CA	5.02	1.52	1.46
1	iF	125	PRO	C-N	5.02	1.40	1.34
1	iG	80	TRP	C-N	5.02	1.40	1.34
1	iN	8	GLY	CA-C	-5.02	1.44	1.51
1	iN	72	THR	C-N	5.02	1.40	1.33
1	iO	58	THR	C-N	5.02	1.38	1.33
1	iP	69	LEU	CA-C	5.02	1.59	1.52
1	iS	174	ALA	CA-CB	5.02	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jm	65	ALA	C-N	5.02	1.40	1.33
1	1W	137	GLY	CA-C	-5.02	1.45	1.51
1	jE	171	THR	CA-C	5.02	1.59	1.52
1	jO	114	GLN	C-N	5.02	1.40	1.33
1	jY	201	ILE	CB-CG1	5.02	1.63	1.53
1	jZ	225	GLY	CA-C	-5.02	1.47	1.52
1	kh	219	GLN	CA-C	-5.02	1.45	1.52
1	kN	130	TYR	C-N	5.02	1.40	1.33
1	kO	96	MET	N-CA	5.02	1.51	1.45
1	kZ	216	THR	CA-C	5.02	1.59	1.52
1	l3	142	VAL	C-N	5.02	1.40	1.33
1	26	81	ASP	C-N	5.02	1.40	1.33
1	ld	40	PHE	CG-CD2	5.02	1.49	1.38
1	lE	189	LEU	CA-CB	5.02	1.61	1.53
1	lR	64	ALA	C-N	5.02	1.41	1.33
1	2n	99	PRO	N-CA	-5.02	1.41	1.47
1	2u	66	MET	CA-C	-5.02	1.46	1.52
1	35	51	ASP	C-N	5.02	1.40	1.33
1	3h	221	VAL	C-O	-5.02	1.18	1.24
1	3j	69	LEU	CA-C	-5.02	1.46	1.52
1	3v	89	GLY	C-N	5.02	1.40	1.33
1	3F	214	MET	N-CA	5.02	1.52	1.46
1	3M	75	GLU	N-CA	5.02	1.52	1.46
1	3O	195	ASN	CA-CB	-5.02	1.46	1.53
1	3U	177	ALA	C-N	5.02	1.40	1.33
1	4b	42	ALA	N-CA	5.02	1.52	1.46
1	4c	194	ALA	CA-C	-5.02	1.46	1.52
1	4k	90	PRO	N-CA	-5.02	1.41	1.47
1	4l	113	GLU	CA-CB	5.02	1.61	1.53
1	4y	197	ASP	C-N	-5.02	1.27	1.33
1	4A	86	VAL	C-N	5.02	1.40	1.33
1	4J	161	PHE	CA-CB	5.02	1.61	1.53
1	4M	132	ARG	NE-CZ	5.02	1.38	1.33
1	4N	147	PRO	C-N	5.02	1.39	1.33
1	55	179	GLN	C-N	5.02	1.40	1.33
1	5k	39	MET	CA-C	-5.02	1.46	1.52
1	5k	167	ARG	CD-NE	5.02	1.53	1.46
1	5m	75	GLU	N-CA	-5.02	1.40	1.46
1	5n	161	PHE	CA-C	5.02	1.59	1.52
1	5r	154	ARG	CD-NE	5.02	1.53	1.46
1	5v	121	ASN	C-O	-5.02	1.18	1.24
1	5w	167	ARG	CA-C	5.02	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5H	144	MET	N-CA	5.02	1.52	1.46
1	5L	14	ALA	CA-CB	5.02	1.61	1.53
1	67	139	ASN	N-CA	5.02	1.52	1.46
1	6a	15	ILE	CA-CB	-5.02	1.49	1.54
1	6d	80	TRP	CA-C	5.02	1.59	1.52
1	6d	226	HIS	ND1-CE1	5.02	1.37	1.32
1	6x	109	SER	CA-C	5.02	1.58	1.52
1	6D	143	ARG	C-N	5.02	1.40	1.33
1	6O	145	TYR	CA-CB	5.02	1.60	1.53
1	75	15	ILE	C-O	-5.02	1.18	1.24
1	75	77	ALA	C-N	5.02	1.41	1.33
1	7f	21	ASN	CA-CB	5.02	1.61	1.53
1	7g	193	ASN	N-CA	-5.02	1.39	1.46
1	7h	63	GLN	C-N	5.02	1.40	1.33
1	7k	19	THR	CB-OG1	-5.02	1.35	1.43
1	7I	79	GLU	CA-C	5.02	1.59	1.52
1	7V	49	PRO	N-CD	-5.02	1.40	1.47
1	8b	135	ILE	N-CA	5.02	1.52	1.46
1	8c	113	GLU	CA-CB	5.02	1.61	1.53
1	8E	90	PRO	C-O	-5.02	1.17	1.23
1	97	103	ASP	CA-C	-5.02	1.46	1.52
1	99	37	ILE	C-O	5.02	1.30	1.24
1	9C	75	GLU	CA-C	5.02	1.59	1.52
1	9Y	191	VAL	CA-C	-5.02	1.46	1.52
1	a7	220	GLY	C-N	5.02	1.39	1.33
1	aq	110	THR	N-CA	-5.02	1.39	1.45
1	aw	205	LEU	C-O	-5.02	1.18	1.24
1	aK	57	ASN	N-CA	-5.02	1.40	1.46
1	aK	169	TYR	CZ-OH	5.02	1.48	1.38
1	aL	166	ASP	CA-C	-5.02	1.46	1.52
1	aM	168	PHE	CG-CD1	5.02	1.49	1.38
1	b0	160	PRO	N-CA	-5.02	1.41	1.47
1	b4	211	LEU	N-CA	-5.02	1.39	1.46
1	bj	161	PHE	CA-C	5.02	1.59	1.52
1	bo	191	VAL	C-O	-5.02	1.18	1.24
1	bp	165	VAL	CA-C	5.02	1.59	1.52
1	bs	2	ILE	N-CA	-5.02	1.40	1.46
1	bv	28	GLU	N-CA	5.02	1.52	1.46
1	bJ	82	ARG	CA-CB	5.02	1.61	1.53
1	bO	168	PHE	N-CA	-5.02	1.40	1.46
1	bS	140	LYS	CA-CB	5.02	1.61	1.53
1	bT	41	SER	CA-C	-5.02	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bT	84	HIS	CA-C	5.02	1.59	1.52
1	bY	133	TRP	C-O	-5.02	1.18	1.24
1	ca	97	ARG	N-CA	-5.02	1.39	1.45
1	cj	18	ARG	CA-CB	5.02	1.61	1.53
1	cQ	52	LEU	N-CA	-5.02	1.39	1.46
1	cX	220	GLY	C-N	5.02	1.38	1.33
1	d8	226	HIS	ND1-CE1	5.02	1.37	1.32
1	de	166	ASP	C-N	5.02	1.40	1.33
1	dv	131	LYS	CA-CB	5.02	1.61	1.53
1	dO	153	ILE	CA-C	5.02	1.58	1.52
1	dP	223	GLY	C-N	5.02	1.40	1.34
1	e5	35	GLU	C-O	-5.02	1.17	1.23
1	eb	162	ARG	CA-CB	5.02	1.61	1.53
1	eG	21	ASN	CA-CB	5.02	1.61	1.53
1	eP	226	HIS	ND1-CE1	5.02	1.37	1.32
1	fc	123	PRO	C-N	5.02	1.37	1.33
1	fg	5	ASN	C-N	5.02	1.40	1.33
1	fA	2	ILE	C-N	-5.02	1.27	1.33
1	1y	103	ASP	C-N	-5.02	1.27	1.33
1	g0	80	TRP	N-CA	-5.02	1.40	1.46
1	g2	144	MET	C-N	5.02	1.40	1.33
1	b	63	GLN	C-O	-5.02	1.18	1.24
1	c	90	PRO	N-CD	-5.02	1.40	1.47
1	v	105	ALA	C-N	5.02	1.40	1.33
1	3	125	PRO	N-CA	-5.02	1.40	1.47
1	N	155	GLN	C-N	5.02	1.41	1.33
1	V	2	ILE	CA-C	-5.02	1.46	1.52
1	7	222	GLY	N-CA	5.02	1.52	1.45
1	8	123	PRO	C-N	5.02	1.39	1.33
1	gf	26	VAL	CA-CB	5.02	1.60	1.54
1	gh	175	GLU	CA-C	-5.02	1.45	1.52
1	gn	115	ILE	CA-C	-5.02	1.46	1.52
1	gq	69	LEU	CA-C	-5.02	1.46	1.52
1	gq	173	ARG	CA-CB	5.02	1.61	1.53
1	gs	178	SER	CA-C	-5.02	1.46	1.53
1	gu	143	ARG	N-CA	5.02	1.52	1.46
1	gw	75	GLU	N-CA	5.02	1.52	1.46
1	gx	162	ARG	N-CA	-5.02	1.39	1.46
1	1E	164	TYR	CA-C	5.02	1.59	1.52
1	gO	114	GLN	N-CA	5.02	1.52	1.46
1	gX	87	HIS	CA-C	5.02	1.58	1.52
1	gZ	47	ALA	N-CA	-5.02	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	gZ	105	ALA	CA-C	5.02	1.59	1.52
1	h4	141	ILE	N-CA	-5.02	1.40	1.46
1	h8	22	ALA	CA-C	5.02	1.59	1.52
1	hj	132	ARG	N-CA	-5.02	1.39	1.46
1	hU	157	PRO	CA-C	5.02	1.58	1.52
1	i2	187	GLU	C-N	5.02	1.40	1.33
1	ii	30	LYS	C-N	5.02	1.40	1.33
1	ii	63	GLN	CA-CB	5.02	1.61	1.53
1	ij	162	ARG	CA-C	5.02	1.59	1.52
1	iw	226	HIS	N-CA	5.02	1.54	1.46
1	iM	158	LYS	CA-C	5.02	1.59	1.52
1	je	144	MET	CA-CB	5.02	1.61	1.53
1	jk	180	GLU	C-O	5.02	1.29	1.24
1	jp	77	ALA	N-CA	-5.02	1.40	1.46
1	jq	39	MET	C-N	5.02	1.40	1.33
1	jw	13	GLN	CA-C	5.02	1.58	1.52
1	k8	194	ALA	N-CA	5.02	1.52	1.45
1	kT	18	ARG	C-O	-5.02	1.18	1.24
1	l7	173	ARG	CD-NE	5.02	1.53	1.46
1	26	196	PRO	C-N	-5.02	1.27	1.33
1	lg	120	HIS	CA-C	5.02	1.60	1.53
1	lo	75	GLU	CA-C	5.02	1.59	1.52
1	ls	48	THR	CA-CB	5.02	1.60	1.53
1	lv	222	GLY	N-CA	5.02	1.52	1.45
1	lw	62	HIS	N-CA	-5.02	1.39	1.46
1	lE	16	SER	CA-C	5.02	1.59	1.52
1	lL	115	ILE	CA-C	-5.02	1.46	1.52
1	2f	83	LEU	C-N	5.02	1.40	1.33
1	2f	172	LEU	CA-CB	5.02	1.62	1.53
1	2n	18	ARG	CA-CB	5.02	1.61	1.53
1	2r	168	PHE	CA-C	-5.02	1.46	1.52
1	2t	85	PRO	CA-CB	5.02	1.60	1.53
1	2z	190	LEU	CA-CB	5.02	1.61	1.53
1	2Q	103	ASP	C-O	-5.02	1.18	1.24
1	2U	217	ALA	N-CA	-5.02	1.39	1.45
1	2Z	23	TRP	CA-CB	5.02	1.61	1.53
1	3c	107	THR	C-N	5.02	1.40	1.33
1	3o	70	LYS	CA-C	5.02	1.59	1.52
1	3s	46	GLY	C-N	5.02	1.40	1.33
1	3z	67	GLN	CA-C	5.02	1.59	1.52
1	3z	142	VAL	N-CA	5.02	1.52	1.46
1	3O	190	LEU	C-N	5.02	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3P	58	THR	N-CA	5.02	1.52	1.46
1	45	174	ALA	C-N	5.02	1.40	1.33
1	46	191	VAL	C-N	5.02	1.40	1.33
1	4f	33	SER	C-N	5.02	1.38	1.33
1	4s	226	HIS	CG-CD2	5.02	1.41	1.35
1	4G	86	VAL	C-O	-5.02	1.18	1.24
1	4R	67	GLN	N-CA	5.02	1.52	1.46
1	4U	179	GLN	CA-C	-5.02	1.46	1.52
1	56	12	HIS	CB-CG	-5.02	1.43	1.50
1	5m	64	ALA	N-CA	5.02	1.52	1.46
1	5v	16	SER	CA-C	-5.02	1.48	1.53
1	5B	89	GLY	CA-C	5.02	1.59	1.51
1	5G	226	HIS	ND1-CE1	5.02	1.37	1.32
1	5K	127	GLY	C-O	-5.02	1.17	1.23
1	5U	135	ILE	CA-CB	5.02	1.60	1.54
1	63	195	ASN	C-N	-5.02	1.27	1.34
1	66	73	ILE	CA-C	-5.02	1.47	1.52
1	66	226	HIS	CA-CB	5.02	1.61	1.53
1	67	69	LEU	CA-C	-5.02	1.46	1.52
1	67	125	PRO	CA-C	5.02	1.59	1.52
1	6c	178	SER	C-N	5.02	1.40	1.33
1	6m	154	ARG	C-N	5.02	1.40	1.33
1	6M	43	LEU	C-N	-5.02	1.26	1.33
1	73	162	ARG	CD-NE	5.02	1.53	1.46
1	7a	143	ARG	CA-C	-5.02	1.46	1.52
1	7q	229	ARG	CD-NE	5.02	1.53	1.46
1	7s	97	ARG	NE-CZ	5.02	1.38	1.33
1	7E	109	SER	C-O	-5.02	1.17	1.23
1	80	175	GLU	N-CA	5.02	1.52	1.46
1	8i	120	HIS	ND1-CE1	5.02	1.37	1.32
1	8q	82	ARG	N-CA	-5.02	1.40	1.46
1	8C	24	VAL	CA-CB	-5.02	1.48	1.54
1	8C	137	GLY	CA-C	5.02	1.57	1.51
1	8M	104	ILE	N-CA	5.02	1.52	1.46
1	8M	143	ARG	NE-CZ	5.02	1.38	1.33
1	8W	153	ILE	CA-CB	-5.02	1.49	1.54
1	9f	166	ASP	CA-C	5.02	1.59	1.52
1	9h	223	GLY	C-N	-5.02	1.22	1.33
1	9i	162	ARG	C-O	5.02	1.29	1.24
1	9y	103	ASP	C-N	5.02	1.40	1.33
1	9B	121	ASN	CA-C	-5.02	1.47	1.52
1	9X	38	PRO	N-CA	-5.02	1.41	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	9X	167	ARG	CA-CB	5.02	1.61	1.53
1	9Z	142	VAL	C-N	5.02	1.40	1.34
1	ac	62	HIS	ND1-CE1	-5.02	1.27	1.32
1	ap	177	ALA	C-O	5.02	1.29	1.23
1	ar	54	THR	C-N	5.02	1.40	1.33
1	aL	80	TRP	C-N	5.02	1.40	1.33
1	aT	15	ILE	C-O	-5.02	1.18	1.24
1	b1	179	GLN	N-CA	-5.02	1.40	1.46
1	16	71	GLU	CA-C	5.02	1.59	1.52
1	b8	112	GLN	N-CA	5.02	1.52	1.46
1	ba	135	ILE	N-CA	5.02	1.52	1.46
1	bz	92	GLU	CA-C	5.02	1.59	1.52
1	bG	94	GLY	CA-C	-5.02	1.44	1.51
1	bI	161	PHE	CG-CD1	5.02	1.49	1.38
1	bQ	171	THR	C-N	5.02	1.40	1.33
1	bR	132	ARG	N-CA	-5.02	1.40	1.46
1	c2	149	SER	CA-CB	5.02	1.61	1.53
1	c7	158	LYS	C-N	5.02	1.40	1.33
1	1d	78	ALA	C-N	5.02	1.40	1.34
1	cz	16	SER	CA-CB	5.02	1.61	1.53
1	cC	7	GLN	CA-C	-5.02	1.46	1.52
1	1g	135	ILE	C-O	-5.02	1.18	1.24
1	cN	33	SER	CA-C	-5.02	1.46	1.52
1	cV	189	LEU	C-O	5.02	1.29	1.24
1	cW	22	ALA	CA-C	-5.02	1.46	1.52
1	dz	107	THR	CA-CB	5.02	1.61	1.53
1	dK	97	ARG	CD-NE	5.02	1.53	1.46
1	dL	113	GLU	CA-CB	5.02	1.61	1.53
1	dM	3	VAL	CA-CB	-5.02	1.47	1.55
1	dP	100	ARG	C-N	5.02	1.40	1.33
1	dR	37	ILE	CA-C	5.02	1.56	1.52
1	e0	150	ILE	CA-C	-5.02	1.46	1.53
1	ed	40	PHE	C-N	5.02	1.40	1.34
1	ej	40	PHE	N-CA	-5.02	1.39	1.46
1	eo	228	ALA	N-CA	-5.02	1.39	1.46
1	es	85	PRO	C-N	5.02	1.39	1.33
1	es	170	LYS	N-CA	5.02	1.52	1.46
1	ev	83	LEU	CA-CB	5.02	1.61	1.53
1	ev	115	ILE	CA-C	-5.02	1.45	1.52
1	ew	190	LEU	CA-C	5.02	1.59	1.52
1	ex	134	ILE	CA-CB	5.02	1.60	1.54
1	eB	161	PHE	N-CA	5.02	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1s	50	GLN	N-CA	5.02	1.52	1.46
1	eL	34	PRO	CA-C	5.02	1.57	1.52
1	eQ	84	HIS	CG-CD2	5.02	1.41	1.35
1	eU	5	ASN	C-N	5.02	1.41	1.33
1	f1	34	PRO	N-CA	5.02	1.54	1.47
1	fi	146	SER	CA-C	-5.02	1.47	1.53
1	1w	34	PRO	C-N	5.02	1.41	1.33
1	ft	167	ARG	CZ-NH2	-5.02	1.26	1.33
1	1x	91	ILE	N-CA	5.02	1.52	1.46
1	fx	113	GLU	CA-CB	5.02	1.61	1.53
1	fz	113	GLU	CA-CB	5.02	1.61	1.53
1	fE	120	HIS	N-CA	5.02	1.52	1.45
1	fW	87	HIS	CG-CD2	5.02	1.41	1.35
1	i	133	TRP	NE1-CE2	-5.02	1.31	1.37
1	z	81	ASP	C-N	5.02	1.40	1.33
1	gf	38	PRO	C-O	5.02	1.30	1.24
1	gj	95	GLN	CA-C	-5.02	1.46	1.52
1	gL	229	ARG	CA-C	5.02	1.59	1.52
1	1H	214	MET	CA-C	-5.02	1.46	1.52
1	h8	93	PRO	C-O	-5.02	1.17	1.23
1	ha	186	THR	N-CA	5.02	1.52	1.46
1	hQ	110	THR	C-N	5.02	1.40	1.33
1	hY	91	ILE	CA-C	5.02	1.58	1.53
1	i0	35	GLU	CA-C	-5.02	1.46	1.52
1	ic	136	LEU	CA-C	-5.02	1.46	1.52
1	iy	113	GLU	C-O	-5.02	1.18	1.24
1	jN	168	PHE	C-O	-5.02	1.18	1.24
1	k9	191	VAL	CA-CB	5.02	1.60	1.54
1	23	12	HIS	CG-ND1	-5.02	1.32	1.38
1	lt	116	GLY	CA-C	-5.02	1.44	1.51
1	2h	120	HIS	ND1-CE1	5.02	1.37	1.32
1	2G	192	GLN	N-CA	-5.02	1.40	1.46
1	2R	45	GLU	N-CA	-5.02	1.39	1.46
1	2S	154	ARG	CZ-NH1	-5.02	1.25	1.32
1	34	205	LEU	CA-C	-5.02	1.46	1.52
1	38	34	PRO	C-N	5.02	1.40	1.33
1	3n	25	LYS	C-N	5.02	1.39	1.34
1	3q	143	ARG	CD-NE	5.02	1.53	1.46
1	3B	224	PRO	CA-CB	5.02	1.60	1.53
1	3G	96	MET	CA-C	5.02	1.59	1.52
1	3K	30	LYS	CA-CB	5.02	1.61	1.53
1	41	211	LEU	CA-CB	5.02	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4M	47	ALA	N-CA	-5.02	1.40	1.46
1	4M	78	ALA	CA-C	-5.02	1.46	1.52
1	4Z	230	VAL	CA-CB	-5.02	1.47	1.54
1	5d	203	LYS	CA-CB	5.02	1.61	1.53
1	5f	207	PRO	CA-CB	-5.02	1.46	1.53
1	5J	91	ILE	CA-CB	5.02	1.61	1.54
1	5K	230	VAL	CA-C	5.02	1.60	1.52
1	5T	178	SER	N-CA	-5.02	1.40	1.46
1	5Y	161	PHE	CA-C	-5.02	1.46	1.52
1	64	213	GLU	N-CA	5.02	1.52	1.46
1	6t	195	ASN	CA-CB	5.02	1.59	1.53
1	7w	115	ILE	C-N	5.02	1.40	1.33
1	7N	57	ASN	N-CA	5.02	1.52	1.46
1	8y	2	ILE	C-N	5.02	1.39	1.33
1	9e	69	LEU	N-CA	-5.02	1.40	1.46
1	9F	133	TRP	CA-CB	5.02	1.61	1.53
1	b1	63	GLN	CA-C	-5.02	1.46	1.52
1	bd	29	GLU	N-CA	-5.02	1.40	1.46
1	bh	82	ARG	N-CA	5.02	1.52	1.46
1	bn	30	LYS	N-CA	-5.02	1.40	1.46
1	bw	152	ASP	C-N	5.02	1.39	1.33
1	bC	175	GLU	N-CA	5.02	1.52	1.46
1	bH	120	HIS	CD2-NE2	5.02	1.43	1.37
1	bI	84	HIS	CE1-NE2	5.02	1.37	1.32
1	bR	155	GLN	N-CA	-5.02	1.39	1.46
1	1b	77	ALA	C-N	5.02	1.40	1.33
1	1g	111	LEU	N-CA	-5.02	1.40	1.46
1	cP	135	ILE	CA-C	5.02	1.58	1.52
1	ds	112	GLN	CA-CB	5.02	1.61	1.53
1	dH	163	ASP	CA-C	-5.02	1.45	1.52
1	e6	209	ALA	CA-CB	5.02	1.61	1.53
1	ea	63	GLN	CA-C	5.02	1.59	1.52
1	eh	13	GLN	CA-C	5.02	1.58	1.52
1	et	191	VAL	CA-C	-5.02	1.45	1.52
1	eY	129	ILE	CA-CB	-5.02	1.48	1.54
1	fe	182	LYS	N-CA	5.02	1.52	1.46
1	fs	84	HIS	N-CA	-5.02	1.40	1.46
1	fy	125	PRO	CA-C	5.02	1.57	1.53
1	g3	137	GLY	C-O	-5.02	1.18	1.23
1	g7	18	ARG	C-N	5.02	1.40	1.33
1	e	186	THR	N-CA	-5.02	1.40	1.46
1	x	128	GLU	CA-C	5.02	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	18	ARG	C-O	5.02	1.29	1.24
1	H	97	ARG	CD-NE	5.02	1.53	1.46
1	J	13	GLN	N-CA	5.02	1.52	1.45
1	O	53	ASN	CA-C	-5.02	1.46	1.52
1	Q	63	GLN	N-CA	-5.02	1.39	1.46
1	ge	159	GLU	CA-C	5.01	1.58	1.52
1	gh	95	GLN	CA-CB	5.01	1.61	1.53
1	gh	218	CYS	CA-CB	5.01	1.60	1.53
1	1D	132	ARG	CD-NE	5.01	1.53	1.46
1	gs	15	ILE	N-CA	-5.01	1.39	1.46
1	gA	69	LEU	CA-C	5.01	1.59	1.52
1	gB	5	ASN	N-CA	-5.01	1.40	1.46
1	gB	67	GLN	CA-CB	5.01	1.61	1.53
1	gH	4	GLN	C-N	5.01	1.39	1.33
1	gX	43	LEU	CA-C	-5.01	1.45	1.52
1	h4	151	LEU	CB-CG	5.01	1.63	1.53
1	hc	202	LEU	CA-CB	5.01	1.61	1.53
1	hg	185	MET	CA-C	-5.01	1.45	1.52
1	hC	206	GLY	N-CA	5.01	1.51	1.44
1	hF	198	CYS	CA-C	5.01	1.59	1.52
1	1L	37	ILE	N-CA	-5.01	1.40	1.46
1	ia	27	VAL	C-O	-5.01	1.18	1.24
1	ia	91	ILE	CA-C	5.01	1.59	1.53
1	ic	136	LEU	C-N	5.01	1.40	1.33
1	1O	87	HIS	C-N	-5.01	1.26	1.33
1	ip	17	PRO	CA-CB	5.01	1.60	1.53
1	iG	211	LEU	C-O	-5.01	1.18	1.24
1	iM	197	ASP	CA-CB	5.01	1.61	1.53
1	j0	216	THR	CA-C	5.01	1.59	1.52
1	1T	27	VAL	C-O	-5.01	1.18	1.24
1	j4	184	TRP	CA-CB	5.01	1.61	1.53
1	jb	115	ILE	C-N	-5.01	1.27	1.33
1	jz	204	ALA	CA-C	5.01	1.59	1.52
1	jC	45	GLU	CA-CB	5.01	1.61	1.53
1	1X	21	ASN	CA-C	5.01	1.59	1.52
1	1X	183	ASN	C-O	-5.01	1.18	1.24
1	jI	215	MET	C-N	5.01	1.40	1.33
1	k0	119	THR	C-N	5.01	1.40	1.33
1	k0	217	ALA	N-CA	-5.01	1.39	1.45
1	kj	99	PRO	CA-C	-5.01	1.45	1.52
1	kx	183	ASN	CA-CB	5.01	1.61	1.53
1	kE	189	LEU	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	kW	124	ILE	CA-C	5.01	1.58	1.52
1	l0	183	ASN	CA-CB	5.01	1.61	1.53
1	lb	62	HIS	CA-CB	-5.01	1.46	1.53
1	lw	214	MET	C-O	5.01	1.30	1.24
1	29	57	ASN	CA-C	5.01	1.59	1.52
1	lH	56	LEU	CA-C	5.01	1.59	1.52
1	2d	97	ARG	N-CA	5.01	1.52	1.46
1	2h	105	ALA	N-CA	5.01	1.52	1.46
1	2k	127	GLY	CA-C	5.01	1.57	1.52
1	2l	154	ARG	N-CA	-5.01	1.39	1.46
1	2z	137	GLY	N-CA	5.01	1.52	1.45
1	2K	132	ARG	C-N	5.01	1.40	1.33
1	31	78	ALA	CA-C	-5.01	1.46	1.52
1	38	106	GLY	C-N	5.01	1.40	1.33
1	3i	18	ARG	N-CA	-5.01	1.40	1.46
1	3B	225	GLY	C-O	-5.01	1.16	1.23
1	3I	76	GLU	N-CA	-5.01	1.40	1.46
1	3R	107	THR	CA-C	-5.01	1.46	1.52
1	3Y	35	GLU	N-CA	-5.01	1.39	1.46
1	3Z	125	PRO	CA-C	5.01	1.57	1.53
1	40	50	GLN	CA-CB	5.01	1.61	1.53
1	45	18	ARG	CA-CB	5.01	1.61	1.53
1	4x	19	THR	C-N	5.01	1.40	1.33
1	4I	9	GLN	N-CA	-5.01	1.39	1.46
1	4L	6	LEU	CA-CB	5.01	1.61	1.53
1	4N	125	PRO	CA-C	-5.01	1.46	1.52
1	4N	169	TYR	CA-C	5.01	1.59	1.52
1	4W	100	ARG	CD-NE	5.01	1.53	1.46
1	55	59	VAL	C-N	5.01	1.40	1.33
1	59	102	SER	CA-C	5.01	1.59	1.52
1	5b	20	LEU	CA-CB	5.01	1.61	1.53
1	5z	124	ILE	CA-CB	5.01	1.59	1.53
1	5I	27	VAL	CA-CB	-5.01	1.48	1.54
1	65	149	SER	CA-C	-5.01	1.46	1.52
1	6b	146	SER	N-CA	5.01	1.52	1.45
1	6q	111	LEU	CB-CG	5.01	1.63	1.53
1	6G	59	VAL	N-CA	-5.01	1.40	1.46
1	6K	214	MET	C-N	5.01	1.40	1.33
1	6P	56	LEU	CA-C	5.01	1.59	1.52
1	6U	38	PRO	N-CA	-5.01	1.41	1.47
1	75	100	ARG	N-CA	-5.01	1.39	1.45
1	76	65	ALA	CA-C	5.01	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	7o	131	LYS	C-N	5.01	1.40	1.33
1	7A	159	GLU	CA-C	5.01	1.58	1.53
1	7I	50	GLN	N-CA	-5.01	1.40	1.46
1	7L	38	PRO	C-N	5.01	1.40	1.33
1	7Z	62	HIS	CE1-NE2	5.01	1.37	1.32
1	83	80	TRP	C-O	-5.01	1.18	1.24
1	88	173	ARG	C-N	5.01	1.41	1.33
1	8H	58	THR	C-N	5.01	1.39	1.33
1	96	196	PRO	CA-CB	5.01	1.61	1.53
1	99	133	TRP	CA-CB	5.01	1.61	1.53
1	9e	85	PRO	CA-CB	-5.01	1.46	1.53
1	9e	225	GLY	CA-C	-5.01	1.45	1.52
1	9M	32	PHE	CA-CB	-5.01	1.46	1.53
1	9Z	95	GLN	CA-CB	5.01	1.63	1.54
1	a2	37	ILE	CA-CB	-5.01	1.47	1.54
1	ac	131	LYS	N-CA	-5.01	1.40	1.46
1	ak	19	THR	CA-C	5.01	1.59	1.52
1	b2	122	PRO	CA-C	5.01	1.62	1.52
1	br	132	ARG	N-CA	5.01	1.52	1.46
1	bC	168	PHE	CA-CB	5.01	1.61	1.53
1	bP	121	ASN	CA-C	-5.01	1.47	1.52
1	bS	62	HIS	CG-ND1	-5.01	1.32	1.38
1	bW	164	TYR	CG-CD2	5.01	1.49	1.39
1	bY	147	PRO	C-N	5.01	1.40	1.33
1	c5	82	ARG	CZ-NH2	-5.01	1.26	1.33
1	c9	12	HIS	CA-C	-5.01	1.46	1.52
1	cH	207	PRO	N-CA	-5.01	1.40	1.47
1	cW	38	PRO	CA-C	5.01	1.59	1.52
1	d1	21	ASN	C-N	5.01	1.40	1.33
1	dh	13	GLN	N-CA	-5.01	1.40	1.46
1	do	34	PRO	CA-CB	5.01	1.60	1.53
1	do	142	VAL	CA-C	5.01	1.59	1.52
1	dr	51	ASP	CA-CB	5.01	1.61	1.53
1	dz	56	LEU	CA-C	5.01	1.59	1.52
1	dA	7	GLN	C-N	5.01	1.40	1.33
1	dA	119	THR	C-N	5.01	1.40	1.33
1	dC	160	PRO	N-CD	-5.01	1.40	1.47
1	dM	217	ALA	N-CA	5.01	1.52	1.46
1	dO	84	HIS	ND1-CE1	5.01	1.37	1.32
1	e1	166	ASP	C-N	-5.01	1.27	1.33
1	er	79	GLU	C-N	5.01	1.40	1.33
1	ev	168	PHE	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ez	99	PRO	C-N	5.01	1.40	1.33
1	eM	114	GLN	CA-CB	5.01	1.61	1.53
1	eV	71	GLU	CA-CB	5.01	1.61	1.53
1	eW	204	ALA	CA-CB	5.01	1.61	1.53
1	eX	133	TRP	N-CA	-5.01	1.40	1.46
1	eY	84	HIS	ND1-CE1	5.01	1.37	1.32
1	f6	226	HIS	CA-C	-5.01	1.46	1.52
1	1v	122	PRO	N-CD	-5.01	1.40	1.47
1	fh	46	GLY	N-CA	5.01	1.52	1.45
1	fq	184	TRP	CA-C	-5.01	1.46	1.52
1	1x	150	ILE	C-N	5.01	1.40	1.33
1	fu	136	LEU	CA-CB	5.01	1.61	1.53
1	1A	142	VAL	C-O	5.01	1.29	1.24
1	g6	229	ARG	C-O	5.01	1.29	1.23
1	z	120	HIS	ND1-CE1	5.01	1.37	1.32
1	F	224	PRO	CA-CB	5.01	1.60	1.53
1	Q	188	THR	N-CA	5.01	1.52	1.46
1	6	155	GLN	CA-C	-5.01	1.46	1.52
1	gD	73	ILE	CA-C	-5.01	1.45	1.52
1	gF	157	PRO	CA-CB	5.01	1.61	1.53
1	gG	226	HIS	CG-ND1	5.01	1.43	1.38
1	gX	58	THR	N-CA	5.01	1.52	1.46
1	io	155	GLN	N-CA	5.01	1.52	1.46
1	is	96	MET	CA-CB	5.01	1.60	1.53
1	iJ	15	ILE	C-O	5.01	1.29	1.24
1	iX	164	TYR	CZ-OH	5.01	1.48	1.38
1	1U	229	ARG	CA-CB	5.01	1.61	1.53
1	jN	165	VAL	N-CA	5.01	1.52	1.46
1	k0	35	GLU	CA-CB	5.01	1.62	1.53
1	ke	184	TRP	C-O	-5.01	1.18	1.24
1	kq	189	LEU	CA-CB	5.01	1.61	1.53
1	kL	101	GLY	CA-C	-5.01	1.46	1.51
1	kM	76	GLU	C-N	5.01	1.40	1.33
1	lF	163	ASP	N-CA	-5.01	1.39	1.46
1	lI	151	LEU	CA-C	5.01	1.59	1.52
1	2h	220	GLY	CA-C	-5.01	1.45	1.51
1	2X	12	HIS	N-CA	-5.01	1.40	1.46
1	3b	96	MET	N-CA	-5.01	1.39	1.46
1	3k	87	HIS	C-N	5.01	1.40	1.33
1	3W	167	ARG	CA-CB	5.01	1.61	1.53
1	3Z	102	SER	CA-CB	5.01	1.61	1.53
1	41	202	LEU	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4x	112	GLN	CA-C	-5.01	1.46	1.52
1	4z	79	GLU	CA-CB	5.01	1.61	1.53
1	4U	182	LYS	CA-CB	5.01	1.61	1.53
1	5o	49	PRO	CA-C	5.01	1.59	1.52
1	5p	7	GLN	CB-CG	5.01	1.67	1.52
1	5B	16	SER	CA-C	-5.01	1.45	1.52
1	6H	198	CYS	CA-CB	5.01	1.61	1.53
1	6N	11	VAL	C-O	-5.01	1.18	1.24
1	6Q	117	TRP	CA-C	5.01	1.59	1.52
1	7w	136	LEU	CA-CB	5.01	1.61	1.53
1	7Y	110	THR	N-CA	5.01	1.52	1.45
1	88	80	TRP	CA-CB	5.01	1.61	1.53
1	8i	98	GLU	CA-CB	5.01	1.60	1.53
1	8F	102	SER	C-O	-5.01	1.17	1.24
1	8H	19	THR	C-N	5.01	1.40	1.33
1	8U	73	ILE	CA-C	5.01	1.59	1.52
1	9p	180	GLU	C-O	-5.01	1.18	1.24
1	9Z	173	ARG	N-CA	-5.01	1.39	1.46
1	a1	190	LEU	CA-C	-5.01	1.46	1.52
1	as	88	ALA	C-O	-5.01	1.17	1.24
1	aG	117	TRP	NE1-CE2	5.01	1.43	1.37
1	aJ	98	GLU	CA-C	5.01	1.59	1.52
1	bj	5	ASN	C-N	5.01	1.40	1.33
1	bq	124	ILE	N-CA	-5.01	1.42	1.46
1	bP	229	ARG	CD-NE	5.01	1.53	1.46
1	bQ	130	TYR	CA-C	5.01	1.59	1.52
1	bW	113	GLU	C-N	5.01	1.40	1.33
1	c3	164	TYR	C-O	-5.01	1.18	1.24
1	cd	171	THR	N-CA	5.01	1.52	1.46
1	cg	23	TRP	C-O	-5.01	1.18	1.24
1	dn	11	VAL	CA-CB	-5.01	1.48	1.54
1	do	38	PRO	C-O	5.01	1.30	1.24
1	e8	95	GLN	C-N	5.01	1.40	1.33
1	em	37	ILE	CA-C	5.01	1.56	1.52
1	es	17	PRO	N-CA	-5.01	1.41	1.47
1	eZ	4	GLN	N-CA	-5.01	1.40	1.46
1	eZ	97	ARG	CD-NE	5.01	1.53	1.46
1	f5	51	ASP	C-N	-5.01	1.27	1.33
1	fd	155	GLN	CA-CB	5.01	1.61	1.53
1	fg	206	GLY	CA-C	-5.01	1.44	1.51
1	fl	62	HIS	CA-C	-5.01	1.46	1.53
1	fs	202	LEU	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	fw	197	ASP	CA-C	-5.01	1.46	1.52
1	fI	18	ARG	CZ-NH2	5.01	1.40	1.33
1	fO	143	ARG	CD-NE	5.01	1.53	1.46
1	m	212	GLU	CA-CB	5.01	1.61	1.53
1	p	219	GLN	CA-C	5.01	1.58	1.52
1	q	190	LEU	C-N	5.01	1.40	1.33
1	G	36	VAL	C-N	5.01	1.41	1.33
1	S	179	GLN	C-N	5.01	1.40	1.33
1	8	76	GLU	CA-C	-5.01	1.46	1.52
1	gg	55	MET	CA-C	-5.01	1.46	1.52
1	gk	70	LYS	CA-CB	5.01	1.61	1.53
1	gm	51	ASP	C-N	5.01	1.40	1.33
1	go	151	LEU	N-CA	5.01	1.52	1.46
1	gr	6	LEU	CA-CB	5.01	1.61	1.53
1	gv	103	ASP	C-N	5.01	1.40	1.34
1	gA	145	TYR	CZ-OH	5.01	1.48	1.38
1	gB	175	GLU	CA-C	5.01	1.59	1.52
1	gC	108	THR	CA-C	5.01	1.59	1.52
1	gK	19	THR	CA-C	5.01	1.59	1.52
1	gT	143	ARG	CA-C	5.01	1.59	1.52
1	h6	69	LEU	C-N	-5.01	1.27	1.33
1	hb	173	ARG	CD-NE	5.01	1.53	1.46
1	hm	178	SER	CA-CB	5.01	1.61	1.53
1	ht	80	TRP	C-N	5.01	1.40	1.34
1	hV	28	GLU	CA-C	-5.01	1.46	1.52
1	hV	82	ARG	N-CA	5.01	1.52	1.46
1	hW	175	GLU	CA-C	-5.01	1.46	1.52
1	i8	166	ASP	CA-C	-5.01	1.46	1.52
1	1O	3	VAL	CA-CB	-5.01	1.47	1.54
1	1O	185	MET	CA-CB	5.01	1.61	1.53
1	if	221	VAL	CA-CB	5.01	1.60	1.54
1	in	198	CYS	CA-CB	5.01	1.61	1.53
1	it	46	GLY	N-CA	5.01	1.52	1.45
1	iG	189	LEU	C-N	5.01	1.40	1.33
1	iK	162	ARG	N-CA	-5.01	1.40	1.46
1	iT	60	GLY	N-CA	-5.01	1.38	1.45
1	1T	184	TRP	CA-C	5.01	1.59	1.52
1	1V	202	LEU	C-N	5.01	1.40	1.33
1	jN	19	THR	N-CA	5.01	1.52	1.46
1	jQ	120	HIS	CA-CB	5.01	1.60	1.53
1	1Z	69	LEU	N-CA	-5.01	1.40	1.46
1	kh	68	MET	SD-CE	5.01	1.92	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	ky	32	PHE	CA-CB	5.01	1.59	1.52
1	kB	23	TRP	CD2-CE3	-5.01	1.32	1.40
1	kE	164	TYR	C-N	-5.01	1.27	1.33
1	l1	120	HIS	CA-C	-5.01	1.46	1.52
1	lr	36	VAL	CA-C	5.01	1.59	1.52
1	lt	159	GLU	CA-CB	5.01	1.61	1.53
1	lu	191	VAL	C-O	-5.01	1.18	1.24
1	lD	117	TRP	CA-C	5.01	1.59	1.52
1	lP	61	GLY	C-O	-5.01	1.19	1.23
1	2e	28	GLU	N-CA	-5.01	1.40	1.46
1	2g	61	GLY	N-CA	5.01	1.51	1.45
1	2r	218	CYS	C-N	5.01	1.40	1.33
1	2t	15	ILE	CA-C	5.01	1.59	1.52
1	2I	26	VAL	CA-CB	5.01	1.60	1.54
1	2Z	67	GLN	CA-CB	5.01	1.61	1.53
1	3j	132	ARG	C-N	5.01	1.40	1.33
1	3q	73	ILE	CB-CG1	5.01	1.63	1.53
1	3r	133	TRP	CA-C	5.01	1.59	1.52
1	3u	130	TYR	CA-C	5.01	1.59	1.52
1	3B	6	LEU	CA-CB	5.01	1.61	1.53
1	3G	86	VAL	CA-CB	-5.01	1.48	1.54
1	3H	73	ILE	CA-CB	5.01	1.59	1.54
1	3K	115	ILE	CA-CB	-5.01	1.47	1.54
1	3W	91	ILE	N-CA	5.01	1.52	1.46
1	41	32	PHE	CA-C	5.01	1.59	1.52
1	48	76	GLU	CA-CB	5.01	1.61	1.53
1	4b	207	PRO	CA-C	5.01	1.59	1.52
1	4i	145	TYR	C-N	5.01	1.40	1.33
1	4p	148	THR	CA-C	5.01	1.58	1.52
1	4x	100	ARG	CD-NE	5.01	1.53	1.46
1	4D	10	MET	N-CA	-5.01	1.39	1.46
1	4I	139	ASN	C-N	5.01	1.40	1.33
1	4J	48	THR	N-CA	5.01	1.53	1.45
1	4Q	220	GLY	N-CA	5.01	1.52	1.45
1	4Y	115	ILE	C-N	5.01	1.40	1.33
1	52	138	LEU	CA-CB	5.01	1.61	1.53
1	59	163	ASP	C-O	-5.01	1.18	1.24
1	5v	111	LEU	CA-C	5.01	1.59	1.52
1	5y	167	ARG	CD-NE	5.01	1.53	1.46
1	5z	47	ALA	CA-CB	-5.01	1.45	1.53
1	5U	173	ARG	CD-NE	5.01	1.53	1.46
1	63	197	ASP	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6o	212	GLU	CA-CB	5.01	1.61	1.53
1	6r	125	PRO	CA-C	5.01	1.57	1.53
1	6r	135	ILE	CA-CB	-5.01	1.48	1.54
1	6C	67	GLN	C-O	-5.01	1.18	1.24
1	74	195	ASN	C-N	5.01	1.40	1.34
1	7b	68	MET	C-N	5.01	1.40	1.33
1	7y	33	SER	CA-CB	5.01	1.61	1.54
1	7L	120	HIS	ND1-CE1	5.01	1.37	1.32
1	7P	212	GLU	CA-C	5.01	1.59	1.52
1	8c	16	SER	CA-CB	5.01	1.60	1.53
1	8p	191	VAL	C-N	5.01	1.41	1.33
1	8x	95	GLN	CA-CB	5.01	1.61	1.53
1	8O	39	MET	N-CA	-5.01	1.40	1.46
1	9a	227	LYS	C-N	5.01	1.40	1.33
1	9e	32	PHE	N-CA	-5.01	1.39	1.46
1	9k	97	ARG	CA-CB	5.01	1.61	1.53
1	9n	112	GLN	CA-C	5.01	1.59	1.52
1	9o	40	PHE	CA-CB	5.01	1.61	1.53
1	9q	186	THR	CA-C	-5.01	1.46	1.52
1	9w	80	TRP	CA-C	5.01	1.59	1.52
1	9y	146	SER	N-CA	5.01	1.51	1.46
1	9L	179	GLN	CA-C	-5.01	1.46	1.52
1	a4	58	THR	N-CA	5.01	1.52	1.46
1	aj	18	ARG	CA-CB	5.01	1.61	1.53
1	as	226	HIS	ND1-CE1	5.01	1.37	1.32
1	aw	123	PRO	CA-CB	5.01	1.59	1.54
1	aH	108	THR	C-O	-5.01	1.17	1.24
1	aP	117	TRP	CA-C	5.01	1.59	1.52
1	aV	13	GLN	CA-CB	5.01	1.63	1.53
1	b3	74	ASN	CA-C	5.01	1.59	1.52
1	bf	144	MET	CA-C	-5.01	1.46	1.52
1	bM	207	PRO	N-CA	-5.01	1.41	1.47
1	cA	74	ASN	CA-C	5.01	1.59	1.52
1	cW	46	GLY	C-N	5.01	1.40	1.33
1	d0	30	LYS	CA-CB	-5.01	1.46	1.53
1	d9	223	GLY	N-CA	5.01	1.51	1.44
1	dd	30	LYS	CA-C	-5.01	1.46	1.52
1	dq	224	PRO	N-CA	-5.01	1.40	1.48
1	dr	150	ILE	N-CA	-5.01	1.39	1.46
1	dC	201	ILE	N-CA	5.01	1.52	1.46
1	dF	173	ARG	CZ-NH1	-5.01	1.25	1.32
1	dV	180	GLU	CA-C	5.01	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	el	5	ASN	CA-C	-5.01	1.46	1.52
1	f1	60	GLY	C-N	5.01	1.39	1.33
1	fj	25	LYS	CA-CB	5.01	1.61	1.53
1	fs	143	ARG	N-CA	5.01	1.52	1.46
1	fA	70	LYS	CA-C	-5.01	1.46	1.52
1	fB	31	ALA	CA-C	5.01	1.59	1.52
1	fF	9	GLN	C-N	5.01	1.40	1.33
1	fI	188	THR	CA-CB	-5.01	1.45	1.53
1	fP	62	HIS	CE1-NE2	5.01	1.37	1.32
1	fQ	69	LEU	CA-CB	5.01	1.61	1.53
1	g4	80	TRP	CA-CB	5.01	1.61	1.53
1	j	226	HIS	ND1-CE1	5.01	1.37	1.32
1	1	47	ALA	C-O	5.01	1.29	1.23
1	u	192	GLN	CA-CB	5.01	1.61	1.53
1	D	200	THR	C-O	-5.01	1.18	1.24
1	S	97	ARG	CA-CB	5.01	1.61	1.53
1	V	39	MET	CA-C	5.01	1.59	1.52
1	W	59	VAL	C-N	5.01	1.40	1.33
1	7	228	ALA	C-N	5.01	1.40	1.33
1	gh	182	LYS	C-N	5.01	1.40	1.33
1	1C	217	ALA	N-CA	-5.01	1.39	1.46
1	gn	182	LYS	CA-C	-5.01	1.46	1.52
1	gq	120	HIS	CD2-NE2	-5.01	1.32	1.37
1	gu	46	GLY	CA-C	-5.01	1.44	1.51
1	gD	31	ALA	CA-C	-5.01	1.46	1.52
1	gP	82	ARG	N-CA	-5.01	1.40	1.46
1	h1	142	VAL	CA-CB	5.01	1.60	1.54
1	h5	115	ILE	N-CA	5.01	1.52	1.46
1	h8	158	LYS	CA-C	-5.01	1.46	1.52
1	ha	54	THR	C-N	5.01	1.40	1.33
1	he	62	HIS	CE1-NE2	5.01	1.37	1.32
1	hk	188	THR	N-CA	-5.01	1.41	1.46
1	1J	86	VAL	CA-C	5.01	1.58	1.52
1	hq	201	ILE	CA-CB	-5.01	1.48	1.54
1	hu	162	ARG	CZ-NH1	-5.01	1.25	1.32
1	hH	14	ALA	N-CA	5.01	1.52	1.45
1	1N	88	ALA	C-N	-5.01	1.26	1.33
1	i5	97	ARG	C-O	-5.01	1.17	1.23
1	is	54	THR	C-O	-5.01	1.18	1.24
1	iC	12	HIS	CA-CB	5.01	1.59	1.52
1	iF	97	ARG	CD-NE	5.01	1.53	1.46
1	iZ	97	ARG	NE-CZ	-5.01	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j1	101	GLY	CA-C	-5.01	1.45	1.52
1	j5	64	ALA	CA-C	5.01	1.59	1.52
1	j8	13	GLN	C-N	5.01	1.40	1.33
1	jh	149	SER	C-N	5.01	1.39	1.33
1	jk	190	LEU	CA-C	5.01	1.59	1.52
1	1V	138	LEU	CB-CG	5.01	1.63	1.53
1	js	43	LEU	CA-CB	5.01	1.61	1.53
1	jK	88	ALA	CA-C	5.01	1.59	1.52
1	1Y	82	ARG	NE-CZ	-5.01	1.27	1.33
1	jX	158	LYS	C-N	5.01	1.41	1.33
1	jY	104	ILE	C-N	5.01	1.41	1.33
1	k2	131	LYS	CA-CB	5.01	1.61	1.53
1	k7	9	GLN	CA-C	-5.01	1.46	1.52
1	ka	103	ASP	CA-C	5.01	1.59	1.52
1	ki	116	GLY	CA-C	-5.01	1.46	1.52
1	ki	174	ALA	N-CA	-5.01	1.40	1.46
1	kk	23	TRP	CA-CB	5.01	1.61	1.53
1	ko	117	TRP	N-CA	-5.01	1.40	1.46
1	kq	156	GLY	N-CA	-5.01	1.37	1.44
1	kx	167	ARG	CA-CB	5.01	1.61	1.53
1	kH	223	GLY	N-CA	5.01	1.51	1.44
1	24	77	ALA	C-N	5.01	1.40	1.33
1	25	174	ALA	N-CA	5.01	1.52	1.46
1	lb	79	GLU	CA-C	5.01	1.59	1.52
1	ld	108	THR	N-CA	5.01	1.52	1.46
1	li	18	ARG	N-CA	-5.01	1.40	1.46
1	li	82	ARG	CD-NE	5.01	1.53	1.46
1	lj	94	GLY	CA-C	5.01	1.57	1.51
1	lm	53	ASN	CA-CB	5.01	1.61	1.53
1	lv	199	LYS	C-N	5.01	1.40	1.33
1	lB	103	ASP	N-CA	-5.01	1.40	1.46
1	lI	222	GLY	N-CA	5.01	1.52	1.45
1	2f	137	GLY	CA-C	-5.01	1.46	1.52
1	2f	147	PRO	CA-C	5.01	1.59	1.52
1	2j	157	PRO	N-CD	5.01	1.54	1.47
1	2j	192	GLN	CA-C	5.01	1.59	1.52
1	2u	27	VAL	C-O	-5.01	1.18	1.24
1	2C	172	LEU	C-N	5.01	1.40	1.33
1	2D	39	MET	CA-CB	5.01	1.61	1.53
1	2I	216	THR	C-N	5.01	1.40	1.33
1	2Y	42	ALA	CA-C	-5.01	1.46	1.52
1	3f	108	THR	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	3w	148	THR	CB-OG1	5.01	1.51	1.43
1	3T	12	HIS	ND1-CE1	5.01	1.37	1.32
1	41	180	GLU	C-O	-5.01	1.18	1.24
1	4c	1	PRO	N-CD	5.01	1.54	1.47
1	4f	200	THR	CA-C	-5.01	1.46	1.52
1	4i	187	GLU	CA-C	-5.01	1.46	1.52
1	4r	58	THR	N-CA	5.01	1.52	1.46
1	54	140	LYS	CA-C	5.01	1.59	1.52
1	55	14	ALA	CA-C	5.01	1.59	1.52
1	5d	219	GLN	N-CA	-5.01	1.40	1.46
1	5i	99	PRO	C-N	-5.01	1.26	1.33
1	5L	51	ASP	CA-C	-5.01	1.46	1.52
1	5Q	140	LYS	N-CA	-5.01	1.40	1.46
1	5S	147	PRO	N-CA	-5.01	1.41	1.47
1	65	116	GLY	N-CA	5.01	1.52	1.45
1	69	152	ASP	N-CA	5.01	1.52	1.46
1	6p	162	ARG	CD-NE	5.01	1.53	1.46
1	6u	159	GLU	C-N	5.01	1.40	1.33
1	6G	57	ASN	CA-C	5.01	1.59	1.52
1	6S	165	VAL	C-O	-5.01	1.18	1.24
1	6Z	203	LYS	C-O	-5.01	1.18	1.24
1	77	224	PRO	N-CD	-5.01	1.40	1.47
1	7b	50	GLN	CA-CB	5.01	1.61	1.53
1	7k	14	ALA	N-CA	-5.01	1.39	1.46
1	7G	126	VAL	C-N	5.01	1.40	1.33
1	7H	31	ALA	CA-C	5.01	1.59	1.52
1	8e	32	PHE	C-N	5.01	1.39	1.33
1	8C	120	HIS	ND1-CE1	5.01	1.37	1.32
1	8X	119	THR	CA-C	-5.01	1.45	1.52
1	96	128	GLU	CA-CB	5.01	1.61	1.53
1	9S	6	LEU	CA-CB	5.01	1.59	1.53
1	9Y	5	ASN	CA-CB	5.01	1.62	1.52
1	10	131	LYS	CA-CB	5.01	1.61	1.53
1	ae	50	GLN	N-CA	5.01	1.52	1.46
1	ar	24	VAL	CA-C	5.01	1.59	1.52
1	ar	214	MET	C-N	5.01	1.40	1.34
1	ay	42	ALA	CA-C	5.01	1.59	1.52
1	aL	229	ARG	CD-NE	5.01	1.53	1.46
1	aM	84	HIS	CD2-NE2	5.01	1.43	1.37
1	aP	23	TRP	NE1-CE2	5.01	1.43	1.37
1	bh	83	LEU	CA-C	-5.01	1.46	1.53
1	bt	170	LYS	CA-CB	5.01	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bu	34	PRO	C-O	-5.01	1.17	1.24
1	19	15	ILE	N-CA	-5.01	1.40	1.46
1	bD	118	MET	CA-CB	5.01	1.62	1.53
1	bK	43	LEU	N-CA	5.01	1.52	1.46
1	bS	133	TRP	NE1-CE2	-5.01	1.31	1.37
1	bU	195	ASN	CA-CB	5.01	1.61	1.53
1	bY	171	THR	CA-C	-5.01	1.46	1.52
1	c7	154	ARG	N-CA	5.01	1.52	1.46
1	cb	135	ILE	CA-CB	-5.01	1.48	1.54
1	ck	179	GLN	CA-CB	5.01	1.61	1.53
1	cq	123	PRO	CA-C	5.01	1.59	1.52
1	cx	144	MET	CG-SD	5.01	1.93	1.80
1	cB	102	SER	CA-C	-5.01	1.46	1.52
1	cC	125	PRO	C-N	5.01	1.40	1.34
1	cD	213	GLU	C-O	-5.01	1.18	1.24
1	cF	22	ALA	CA-C	5.01	1.59	1.52
1	cR	85	PRO	CA-CB	-5.01	1.48	1.53
1	1h	178	SER	N-CA	5.01	1.52	1.46
1	dj	151	LEU	CA-CB	5.01	1.61	1.53
1	dk	42	ALA	C-O	5.01	1.29	1.24
1	dt	111	LEU	N-CA	-5.01	1.40	1.46
1	dN	162	ARG	N-CA	-5.01	1.40	1.46
1	ea	139	ASN	CA-CB	5.01	1.61	1.53
1	en	204	ALA	C-N	5.01	1.40	1.33
1	ey	84	HIS	CG-ND1	5.01	1.43	1.38
1	eH	120	HIS	CE1-NE2	-5.01	1.27	1.32
1	eL	119	THR	C-N	5.01	1.40	1.33
1	fw	116	GLY	C-O	-5.01	1.17	1.23
1	fA	169	TYR	CB-CG	5.01	1.62	1.51
1	fB	201	ILE	C-N	5.01	1.40	1.33
1	fY	66	MET	C-O	-5.01	1.17	1.24
1	1B	221	VAL	C-N	5.01	1.42	1.33
1	j	84	HIS	CB-CG	5.01	1.57	1.50
1	o	80	TRP	CA-CB	5.01	1.61	1.53
1	H	53	ASN	N-CA	5.01	1.52	1.46
1	gc	203	LYS	CA-CB	5.01	1.61	1.53
1	gA	167	ARG	CA-CB	5.01	1.61	1.53
1	1G	159	GLU	CA-C	5.01	1.58	1.52
1	hc	177	ALA	C-O	-5.01	1.17	1.23
1	1I	60	GLY	C-N	5.01	1.41	1.33
1	hz	4	GLN	CA-C	-5.01	1.46	1.52
1	hK	156	GLY	N-CA	5.01	1.51	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	hR	120	HIS	C-N	5.01	1.40	1.33
1	hX	26	VAL	CA-C	5.01	1.60	1.52
1	hZ	130	TYR	C-O	-5.01	1.18	1.24
1	i6	128	GLU	CA-CB	5.01	1.61	1.53
1	1O	5	ASN	CA-CB	5.01	1.60	1.53
1	ik	114	GLN	N-CA	-5.01	1.40	1.46
1	in	12	HIS	CA-CB	5.01	1.61	1.53
1	iv	127	GLY	C-N	5.01	1.40	1.33
1	iH	150	ILE	N-CA	5.01	1.53	1.46
1	1T	226	HIS	CD2-NE2	5.01	1.43	1.37
1	jf	49	PRO	C-N	-5.01	1.27	1.33
1	l9	154	ARG	CD-NE	5.01	1.53	1.46
1	lN	132	ARG	CZ-NH2	-5.01	1.26	1.33
1	2n	223	GLY	C-N	5.01	1.40	1.33
1	2u	168	PHE	CA-C	5.01	1.59	1.52
1	2G	227	LYS	CA-C	5.01	1.59	1.52
1	2M	133	TRP	CZ2-CH2	5.01	1.46	1.37
1	2S	97	ARG	CA-C	-5.01	1.46	1.52
1	30	203	LYS	C-N	5.01	1.40	1.33
1	36	53	ASN	C-O	-5.01	1.18	1.24
1	3p	28	GLU	N-CA	-5.01	1.40	1.46
1	3x	1	PRO	N-CA	5.01	1.54	1.47
1	3G	152	ASP	CA-C	5.01	1.59	1.52
1	3Z	100	ARG	C-O	5.01	1.30	1.23
1	47	193	ASN	C-O	5.01	1.30	1.24
1	4n	23	TRP	NE1-CE2	5.01	1.43	1.37
1	6x	54	THR	C-O	-5.01	1.18	1.24
1	7m	163	ASP	CA-CB	5.01	1.61	1.53
1	7y	100	ARG	CZ-NH2	-5.01	1.26	1.33
1	88	139	ASN	CA-CB	5.01	1.61	1.53
1	8b	72	THR	C-N	5.01	1.40	1.33
1	8O	205	LEU	CB-CG	5.01	1.63	1.53
1	8Y	190	LEU	N-CA	-5.01	1.40	1.46
1	9B	40	PHE	N-CA	5.01	1.52	1.46
1	9H	46	GLY	CA-C	5.01	1.58	1.51
1	Y	132	ARG	CA-CB	5.01	1.61	1.53
1	ad	120	HIS	CA-CB	5.01	1.61	1.53
1	ag	18	ARG	NE-CZ	-5.01	1.27	1.33
1	al	167	ARG	CZ-NH1	-5.01	1.25	1.32
1	b8	67	GLN	C-O	-5.01	1.18	1.24
1	bb	161	PHE	CA-CB	5.01	1.61	1.53
1	bn	38	PRO	N-CD	-5.01	1.40	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	br	176	GLN	CA-CB	5.01	1.60	1.53
1	bQ	228	ALA	CA-C	-5.01	1.46	1.52
1	bT	72	THR	C-N	5.01	1.40	1.33
1	c8	179	GLN	CA-CB	5.01	1.61	1.53
1	cf	185	MET	C-O	-5.01	1.18	1.24
1	cE	216	THR	CA-CB	5.01	1.61	1.53
1	d8	17	PRO	C-N	5.01	1.40	1.33
1	db	80	TRP	CD2-CE3	5.01	1.48	1.40
1	dl	111	LEU	CA-CB	5.01	1.61	1.53
1	dC	218	CYS	C-N	5.01	1.41	1.33
1	dX	189	LEU	C-N	5.01	1.40	1.33
1	dZ	63	GLN	CA-CB	5.01	1.61	1.53
1	ea	183	ASN	CA-CB	5.01	1.61	1.53
1	ea	202	LEU	CA-C	-5.01	1.45	1.52
1	eb	61	GLY	C-N	5.01	1.40	1.33
1	eo	23	TRP	NE1-CE2	-5.01	1.31	1.37
1	eQ	182	LYS	CA-CB	5.01	1.61	1.53
1	fs	135	ILE	CA-C	5.01	1.59	1.52
1	1y	97	ARG	NE-CZ	5.01	1.38	1.33
1	fZ	68	MET	C-O	-5.01	1.18	1.24
1	fZ	171	THR	N-CA	5.01	1.52	1.46
1	g2	192	GLN	CA-C	5.01	1.59	1.52
1	a	222	GLY	N-CA	5.01	1.51	1.45
1	k	201	ILE	CA-CB	-5.01	1.48	1.54
1	3	230	VAL	CA-CB	-5.01	1.47	1.55
1	gc	151	LEU	C-N	5.01	1.40	1.33
1	ge	104	ILE	C-O	-5.01	1.17	1.24
1	1C	9	GLN	CA-CB	5.01	1.61	1.53
1	gO	157	PRO	CA-C	-5.01	1.44	1.52
1	gR	217	ALA	CA-C	-5.01	1.46	1.52
1	gY	197	ASP	CA-CB	5.01	1.61	1.53
1	hk	121	ASN	N-CA	-5.01	1.39	1.46
1	hF	139	ASN	N-CA	-5.01	1.40	1.46
1	hG	150	ILE	N-CA	-5.01	1.39	1.46
1	hK	229	ARG	CD-NE	5.01	1.53	1.46
1	hZ	77	ALA	C-N	5.01	1.40	1.33
1	i5	22	ALA	N-CA	-5.01	1.40	1.46
1	ia	219	GLN	CA-C	-5.01	1.45	1.52
1	ii	87	HIS	C-N	5.01	1.40	1.33
1	it	225	GLY	N-CA	5.01	1.52	1.45
1	1Q	187	GLU	N-CA	-5.01	1.40	1.46
1	iD	33	SER	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	j1	84	HIS	CG-CD2	5.01	1.41	1.35
1	1U	84	HIS	C-O	5.01	1.29	1.24
1	jm	62	HIS	CG-CD2	-5.01	1.30	1.35
1	jE	125	PRO	CA-C	5.01	1.58	1.53
1	jI	90	PRO	N-CA	-5.01	1.41	1.47
1	jQ	172	LEU	CB-CG	5.01	1.63	1.53
1	jU	3	VAL	N-CA	5.01	1.52	1.46
1	jU	147	PRO	N-CA	5.01	1.53	1.47
1	k8	165	VAL	N-CA	-5.01	1.40	1.46
1	kg	143	ARG	NE-CZ	5.01	1.38	1.33
1	21	54	THR	CA-C	-5.01	1.46	1.52
1	ko	219	GLN	CA-C	5.01	1.59	1.52
1	kt	62	HIS	C-N	5.01	1.41	1.33
1	kw	170	LYS	N-CA	-5.01	1.40	1.46
1	kI	116	GLY	CA-C	5.01	1.57	1.52
1	kK	115	ILE	N-CA	5.01	1.52	1.46
1	kL	49	PRO	CA-CB	-5.01	1.46	1.53
1	24	169	TYR	C-N	5.01	1.40	1.33
1	kO	199	LYS	C-N	5.01	1.41	1.33
1	kU	47	ALA	CA-CB	5.01	1.61	1.53
1	l0	12	HIS	CA-C	5.01	1.59	1.52
1	l6	87	HIS	CA-CB	5.01	1.61	1.53
1	lc	220	GLY	C-O	-5.01	1.20	1.24
1	lP	72	THR	C-N	5.01	1.40	1.33
1	2f	36	VAL	C-O	5.01	1.30	1.24
1	2C	112	GLN	N-CA	-5.01	1.40	1.46
1	2D	184	TRP	C-O	-5.01	1.17	1.24
1	2Q	1	PRO	N-CD	5.01	1.54	1.47
1	2W	230	VAL	N-CA	5.01	1.50	1.46
1	3a	52	LEU	N-CA	-5.01	1.40	1.46
1	3h	155	GLN	C-N	5.01	1.41	1.33
1	3l	155	GLN	CA-CB	5.01	1.60	1.53
1	3J	28	GLU	CA-CB	5.01	1.61	1.53
1	46	200	THR	C-N	5.01	1.40	1.33
1	4j	143	ARG	CZ-NH2	-5.01	1.26	1.33
1	4r	203	LYS	C-N	-5.01	1.27	1.33
1	4t	138	LEU	CA-CB	5.01	1.61	1.53
1	5a	201	ILE	CA-CB	5.01	1.59	1.54
1	5b	49	PRO	CA-CB	5.01	1.60	1.53
1	5d	197	ASP	C-N	5.01	1.40	1.33
1	5j	145	TYR	CA-CB	5.01	1.60	1.53
1	5I	128	GLU	CB-CG	5.01	1.67	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	5J	51	ASP	N-CA	-5.01	1.40	1.46
1	5L	154	ARG	CD-NE	5.01	1.53	1.46
1	5T	81	ASP	C-N	5.01	1.40	1.33
1	5V	212	GLU	CA-CB	5.01	1.61	1.53
1	5W	82	ARG	CA-CB	5.01	1.61	1.53
1	6t	217	ALA	C-N	5.01	1.39	1.33
1	6x	189	LEU	N-CA	5.01	1.52	1.46
1	6O	135	ILE	CA-C	-5.01	1.45	1.52
1	6R	97	ARG	N-CA	5.01	1.52	1.46
1	6S	54	THR	N-CA	-5.01	1.40	1.46
1	7H	134	ILE	CA-C	5.01	1.59	1.52
1	7I	9	GLN	CG-CD	5.01	1.64	1.52
1	7R	72	THR	CA-C	-5.01	1.46	1.52
1	7S	64	ALA	CA-C	5.01	1.59	1.52
1	7Y	33	SER	N-CA	5.01	1.52	1.45
1	80	182	LYS	CA-C	-5.01	1.46	1.52
1	8h	70	LYS	C-O	-5.01	1.18	1.24
1	8u	199	LYS	C-N	-5.01	1.27	1.33
1	8A	68	MET	CA-C	-5.01	1.46	1.52
1	8B	9	GLN	CA-CB	5.01	1.61	1.53
1	8H	138	LEU	C-N	5.01	1.40	1.33
1	92	7	GLN	N-CA	5.01	1.52	1.46
1	96	74	ASN	N-CA	-5.01	1.40	1.46
1	98	10	MET	C-N	5.01	1.39	1.33
1	98	226	HIS	CG-ND1	5.01	1.43	1.38
1	9c	153	ILE	CA-C	5.01	1.58	1.52
1	9d	210	THR	C-O	-5.01	1.16	1.23
1	9f	44	SER	C-O	5.01	1.29	1.24
1	9s	132	ARG	CA-C	5.01	1.59	1.52
1	9H	133	TRP	CA-CB	5.01	1.61	1.53
1	am	96	MET	CA-CB	5.01	1.60	1.53
1	ap	166	ASP	CA-C	5.01	1.59	1.52
1	12	12	HIS	CA-C	-5.01	1.46	1.52
1	ay	12	HIS	C-O	-5.01	1.18	1.24
1	aB	184	TRP	C-O	-5.01	1.18	1.24
1	aC	71	GLU	C-N	5.01	1.40	1.33
1	aD	89	GLY	N-CA	5.01	1.51	1.44
1	aF	134	ILE	CA-CB	-5.01	1.48	1.54
1	aN	67	GLN	CA-CB	5.01	1.61	1.53
1	aP	53	ASN	CA-CB	5.01	1.61	1.53
1	bt	62	HIS	CE1-NE2	5.01	1.37	1.32
1	bv	65	ALA	C-N	5.01	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bE	153	ILE	C-O	-5.01	1.18	1.24
1	bF	178	SER	CA-C	5.01	1.58	1.52
1	bM	135	ILE	CA-CB	-5.01	1.48	1.54
1	bM	162	ARG	CA-CB	5.01	1.61	1.53
1	1b	216	THR	CA-CB	-5.01	1.45	1.53
1	bW	230	VAL	C-N	5.01	1.40	1.33
1	1d	50	GLN	N-CA	-5.01	1.40	1.46
1	cn	136	LEU	N-CA	5.01	1.52	1.46
1	cp	11	VAL	C-O	-5.01	1.19	1.24
1	cQ	211	LEU	CB-CG	5.01	1.63	1.53
1	d3	39	MET	C-N	5.01	1.40	1.33
1	dA	71	GLU	C-O	-5.01	1.18	1.24
1	dH	140	LYS	C-N	5.01	1.40	1.33
1	dH	222	GLY	N-CA	5.01	1.54	1.45
1	dU	146	SER	CA-CB	5.01	1.62	1.53
1	ec	61	GLY	C-O	-5.01	1.19	1.23
1	ec	87	HIS	ND1-CE1	5.01	1.37	1.32
1	ej	120	HIS	CG-ND1	-5.01	1.32	1.38
1	eo	33	SER	CA-C	5.01	1.58	1.52
1	ey	166	ASP	N-CA	5.01	1.52	1.46
1	eX	84	HIS	CA-C	5.01	1.58	1.52
1	eY	194	ALA	N-CA	-5.01	1.39	1.46
1	f7	9	GLN	CA-C	5.01	1.59	1.53
1	fp	168	PHE	CA-CB	5.01	1.61	1.53
1	fz	104	ILE	CA-CB	-5.01	1.48	1.54
1	fE	71	GLU	C-O	5.01	1.29	1.24
1	fF	176	GLN	CA-C	-5.01	1.45	1.52
1	fX	204	ALA	C-N	5.01	1.40	1.33
1	a	221	VAL	C-N	5.01	1.39	1.33
1	c	174	ALA	CA-C	5.01	1.59	1.52
1	o	167	ARG	CA-C	5.01	1.59	1.52
1	p	96	MET	CA-C	-5.01	1.46	1.52
1	F	198	CYS	N-CA	-5.01	1.40	1.46
1	L	28	GLU	N-CA	5.01	1.52	1.46
1	gt	27	VAL	C-N	5.00	1.40	1.34
1	1F	166	ASP	CA-CB	5.00	1.61	1.53
1	gS	171	THR	CB-OG1	-5.00	1.35	1.43
1	h0	39	MET	CA-CB	5.00	1.61	1.53
1	ho	150	ILE	C-N	5.00	1.40	1.33
1	id	226	HIS	CE1-NE2	5.00	1.37	1.32
1	il	229	ARG	C-N	5.00	1.39	1.33
1	is	84	HIS	CA-CB	5.00	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	iL	187	GLU	N-CA	-5.00	1.40	1.46
1	iQ	58	THR	C-N	5.00	1.39	1.33
1	jO	188	THR	C-N	5.00	1.40	1.33
1	jT	40	PHE	C-O	-5.00	1.18	1.24
1	jV	66	MET	CA-CB	5.00	1.61	1.53
1	kt	100	ARG	CD-NE	5.00	1.53	1.46
1	ky	218	CYS	CA-C	-5.00	1.47	1.53
1	kQ	229	ARG	CD-NE	5.00	1.53	1.46
1	kU	1	PRO	N-CD	5.00	1.54	1.47
1	27	112	GLN	C-N	5.00	1.40	1.33
1	lI	68	MET	N-CA	5.00	1.52	1.46
1	2f	27	VAL	CA-CB	5.00	1.60	1.54
1	2l	193	ASN	C-N	5.00	1.40	1.33
1	2u	14	ALA	C-O	5.00	1.30	1.23
1	2T	131	LYS	N-CA	-5.00	1.40	1.46
1	2Z	14	ALA	C-N	5.00	1.39	1.33
1	3d	124	ILE	N-CA	5.00	1.51	1.46
1	3B	116	GLY	C-N	5.00	1.40	1.33
1	3O	164	TYR	CA-CB	5.00	1.61	1.53
1	4m	89	GLY	C-N	-5.00	1.27	1.33
1	4V	220	GLY	N-CA	5.00	1.52	1.45
1	4X	230	VAL	C-N	5.00	1.40	1.33
1	63	167	ARG	CA-CB	5.00	1.61	1.53
1	6q	134	ILE	C-N	5.00	1.40	1.33
1	6V	10	MET	CA-CB	5.00	1.61	1.53
1	7l	36	VAL	CA-CB	5.00	1.60	1.54
1	7Q	182	LYS	C-O	5.00	1.29	1.24
1	8m	49	PRO	N-CD	-5.00	1.40	1.47
1	8J	114	GLN	N-CA	-5.00	1.40	1.46
1	8S	176	GLN	C-N	5.00	1.40	1.33
1	8U	125	PRO	CA-C	-5.00	1.48	1.53
1	9d	179	GLN	C-O	-5.00	1.18	1.24
1	9f	165	VAL	N-CA	5.00	1.52	1.46
1	9l	68	MET	C-O	-5.00	1.17	1.24
1	9t	197	ASP	CA-C	5.00	1.59	1.52
1	a8	218	CYS	N-CA	5.00	1.52	1.46
1	aZ	100	ARG	CD-NE	5.00	1.53	1.46
1	bu	70	LYS	CA-CB	5.00	1.61	1.53
1	bU	43	LEU	CA-C	-5.00	1.45	1.52
1	cn	204	ALA	N-CA	-5.00	1.40	1.46
1	cw	172	LEU	CA-C	5.00	1.59	1.52
1	1g	32	PHE	CA-C	5.00	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cL	229	ARG	CD-NE	5.00	1.53	1.46
1	df	51	ASP	CA-CB	5.00	1.61	1.53
1	dp	78	ALA	CA-C	-5.00	1.46	1.52
1	dy	47	ALA	CA-C	5.00	1.59	1.52
1	dE	18	ARG	C-N	5.00	1.40	1.33
1	1p	141	ILE	CA-C	5.00	1.59	1.52
1	ek	11	VAL	CA-C	-5.00	1.46	1.52
1	eN	44	SER	CA-C	-5.00	1.46	1.52
1	eQ	86	VAL	N-CA	5.00	1.52	1.46
1	fl	79	GLU	N-CA	-5.00	1.40	1.46
1	fz	175	GLU	CA-C	5.00	1.59	1.52
1	fM	199	LYS	N-CA	-5.00	1.40	1.46
1	fV	133	TRP	C-O	-5.00	1.18	1.24
1	T	40	PHE	CA-C	5.00	1.59	1.52
1	g9	162	ARG	N-CA	5.00	1.52	1.46
1	gj	62	HIS	CB-CG	-5.00	1.43	1.50
1	gu	39	MET	C-N	5.00	1.39	1.33
1	gC	121	ASN	CA-CB	5.00	1.59	1.53
1	gG	2	ILE	CA-CB	-5.00	1.48	1.54
1	gH	85	PRO	N-CA	-5.00	1.41	1.47
1	gM	215	MET	C-N	5.00	1.40	1.33
1	h0	56	LEU	CA-C	5.00	1.59	1.52
1	h5	12	HIS	CE1-NE2	-5.00	1.27	1.32
1	h6	111	LEU	C-O	-5.00	1.18	1.24
1	h6	129	ILE	CA-C	-5.00	1.46	1.52
1	hl	151	LEU	CB-CG	5.00	1.63	1.53
1	ho	5	ASN	CA-CB	5.00	1.62	1.53
1	hs	18	ARG	C-N	5.00	1.40	1.33
1	hv	151	LEU	C-N	5.00	1.41	1.33
1	hE	200	THR	CA-C	-5.00	1.46	1.52
1	hU	110	THR	C-N	5.00	1.40	1.33
1	i6	18	ARG	CD-NE	5.00	1.53	1.46
1	iI	141	ILE	CA-C	5.00	1.59	1.52
1	iM	115	ILE	C-O	-5.00	1.17	1.24
1	iW	212	GLU	CA-CB	5.00	1.61	1.53
1	iZ	13	GLN	CA-C	5.00	1.58	1.52
1	j3	12	HIS	CE1-NE2	5.00	1.37	1.32
1	j9	157	PRO	CA-C	5.00	1.60	1.52
1	ji	83	LEU	CA-C	5.00	1.59	1.52
1	jm	67	GLN	CA-C	5.00	1.59	1.52
1	1W	39	MET	C-N	5.00	1.40	1.33
1	jx	37	ILE	CA-C	5.00	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	jx	68	MET	CG-SD	5.00	1.93	1.80
1	jN	63	GLN	C-N	5.00	1.40	1.34
1	jR	28	GLU	N-CA	5.00	1.52	1.46
1	jU	197	ASP	CA-C	5.00	1.59	1.52
1	1Z	18	ARG	CA-C	-5.00	1.46	1.52
1	k1	119	THR	CA-CB	5.00	1.61	1.53
1	20	12	HIS	CB-CG	5.00	1.57	1.50
1	22	212	GLU	N-CA	-5.00	1.40	1.46
1	kx	211	LEU	C-N	5.00	1.40	1.33
1	kF	221	VAL	N-CA	5.00	1.52	1.46
1	kO	97	ARG	CA-C	5.00	1.59	1.52
1	kU	47	ALA	N-CA	5.00	1.52	1.46
1	kY	129	ILE	CA-CB	-5.00	1.48	1.54
1	lc	161	PHE	CG-CD2	5.00	1.49	1.38
1	lv	129	ILE	CA-CB	-5.00	1.48	1.54
1	2f	188	THR	C-N	5.00	1.40	1.33
1	2v	193	ASN	CG-ND2	5.00	1.43	1.33
1	3a	230	VAL	CA-C	-5.00	1.47	1.52
1	3c	70	LYS	CA-CB	5.00	1.61	1.53
1	3k	132	ARG	CZ-NH2	-5.00	1.26	1.33
1	3J	96	MET	SD-CE	5.00	1.92	1.79
1	3P	92	GLU	CA-CB	5.00	1.59	1.53
1	4b	78	ALA	CA-C	5.00	1.59	1.52
1	4n	109	SER	C-N	5.00	1.40	1.33
1	4z	82	ARG	CD-NE	5.00	1.53	1.46
1	4D	142	VAL	C-O	-5.00	1.18	1.24
1	4I	67	GLN	N-CA	5.00	1.52	1.46
1	4I	71	GLU	C-N	5.00	1.40	1.33
1	4Q	185	MET	N-CA	5.00	1.52	1.46
1	5g	193	ASN	C-N	5.00	1.40	1.33
1	5i	182	LYS	CA-CB	5.00	1.61	1.53
1	5r	193	ASN	CA-CB	5.00	1.61	1.53
1	5O	22	ALA	N-CA	-5.00	1.40	1.46
1	5P	36	VAL	CA-CB	-5.00	1.48	1.54
1	5Q	156	GLY	CA-C	-5.00	1.44	1.51
1	5U	46	GLY	N-CA	5.00	1.52	1.45
1	60	57	ASN	N-CA	-5.00	1.39	1.46
1	67	226	HIS	ND1-CE1	5.00	1.37	1.32
1	6d	159	GLU	CA-CB	5.00	1.61	1.53
1	6f	91	ILE	N-CA	-5.00	1.41	1.46
1	6F	199	LYS	C-N	5.00	1.40	1.33
1	6G	100	ARG	C-N	5.00	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	6N	143	ARG	CD-NE	5.00	1.53	1.46
1	6Z	38	PRO	C-O	-5.00	1.18	1.24
1	70	73	ILE	CA-C	5.00	1.58	1.52
1	73	120	HIS	CG-ND1	-5.00	1.32	1.38
1	77	138	LEU	C-N	5.00	1.40	1.33
1	79	30	LYS	N-CA	-5.00	1.41	1.46
1	7i	197	ASP	CG-OD2	5.00	1.34	1.25
1	7m	62	HIS	CB-CG	5.00	1.57	1.50
1	7t	125	PRO	CA-C	-5.00	1.48	1.53
1	7y	154	ARG	CD-NE	5.00	1.53	1.46
1	7F	12	HIS	ND1-CE1	5.00	1.37	1.32
1	7P	95	GLN	CA-C	-5.00	1.46	1.52
1	7W	102	SER	CA-C	5.00	1.59	1.52
1	8n	184	TRP	CZ2-CH2	5.00	1.46	1.37
1	8q	23	TRP	NE1-CE2	-5.00	1.31	1.37
1	8t	161	PHE	CA-CB	5.00	1.61	1.53
1	8u	44	SER	CA-C	-5.00	1.45	1.52
1	8w	59	VAL	CA-CB	-5.00	1.48	1.54
1	8C	173	ARG	CA-CB	5.00	1.61	1.53
1	8L	198	CYS	CA-CB	5.00	1.61	1.53
1	93	124	ILE	CA-C	5.00	1.58	1.52
1	9e	174	ALA	CA-CB	5.00	1.61	1.53
1	9s	213	GLU	CA-C	5.00	1.59	1.52
1	9H	117	TRP	N-CA	-5.00	1.39	1.46
1	9Z	82	ARG	CA-CB	5.00	1.61	1.53
1	a7	61	GLY	CA-C	-5.00	1.47	1.52
1	af	124	ILE	CA-CB	5.00	1.59	1.53
1	aj	161	PHE	CA-CB	5.00	1.61	1.53
1	ak	29	GLU	C-N	5.00	1.40	1.33
1	aD	146	SER	CA-CB	5.00	1.60	1.53
1	aK	69	LEU	C-N	5.00	1.40	1.33
1	aK	203	LYS	C-O	-5.00	1.18	1.24
1	aZ	31	ALA	C-O	-5.00	1.20	1.24
1	bc	120	HIS	ND1-CE1	5.00	1.37	1.32
1	bn	55	MET	CA-C	5.00	1.59	1.52
1	18	184	TRP	CA-CB	5.00	1.61	1.53
1	by	123	PRO	C-N	5.00	1.37	1.33
1	bF	80	TRP	CA-CB	5.00	1.61	1.53
1	c4	34	PRO	CA-C	5.00	1.59	1.52
1	cc	91	ILE	N-CA	5.00	1.52	1.46
1	cf	167	ARG	CA-CB	5.00	1.61	1.53
1	1d	100	ARG	N-CA	5.00	1.51	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	cS	126	VAL	C-O	-5.00	1.18	1.24
1	cU	101	GLY	C-N	5.00	1.40	1.33
1	d0	112	GLN	CA-CB	5.00	1.61	1.53
1	df	117	TRP	NE1-CE2	-5.00	1.31	1.37
1	dp	173	ARG	N-CA	-5.00	1.40	1.46
1	dJ	52	LEU	CA-CB	5.00	1.61	1.53
1	dM	188	THR	N-CA	-5.00	1.39	1.46
1	dT	122	PRO	N-CA	-5.00	1.38	1.47
1	e7	142	VAL	CA-C	5.00	1.58	1.52
1	e9	90	PRO	N-CA	5.00	1.52	1.47
1	e9	165	VAL	CA-CB	-5.00	1.48	1.54
1	ex	117	TRP	NE1-CE2	5.00	1.43	1.37
1	eC	148	THR	CA-CB	5.00	1.61	1.53
1	eU	1	PRO	N-CD	5.00	1.54	1.47
1	eU	95	GLN	CA-C	-5.00	1.46	1.52
1	eU	120	HIS	CD2-NE2	5.00	1.43	1.37
1	eZ	96	MET	CA-C	5.00	1.59	1.52
1	ff	161	PHE	C-N	5.00	1.40	1.33
1	1z	229	ARG	CA-C	5.00	1.59	1.52
1	fW	114	GLN	N-CA	-5.00	1.40	1.46
1	0	128	GLU	CA-C	5.00	1.59	1.52
1	f	184	TRP	CA-CB	5.00	1.61	1.53
1	i	78	ALA	C-N	5.00	1.40	1.33
1	S	216	THR	N-CA	-5.00	1.40	1.46
1	U	226	HIS	CA-C	-5.00	1.47	1.53
1	V	160	PRO	N-CA	-5.00	1.41	1.47
1	W	145	TYR	N-CA	-5.00	1.39	1.46
1	g9	205	LEU	CA-C	5.00	1.59	1.52
1	ge	132	ARG	C-N	5.00	1.40	1.33
1	gy	8	GLY	C-N	5.00	1.40	1.33
1	gJ	140	LYS	CA-CB	5.00	1.61	1.53
1	1F	177	ALA	CA-CB	5.00	1.61	1.53
1	gO	169	TYR	N-CA	-5.00	1.40	1.46
1	gO	210	THR	C-N	5.00	1.40	1.33
1	gV	157	PRO	CA-C	5.00	1.59	1.52
1	gY	86	VAL	C-O	5.00	1.30	1.24
1	h3	47	ALA	CA-C	5.00	1.58	1.52
1	1H	173	ARG	N-CA	5.00	1.52	1.46
1	1H	230	VAL	CA-CB	-5.00	1.48	1.54
1	h8	135	ILE	C-N	5.00	1.40	1.33
1	hq	159	GLU	C-N	5.00	1.39	1.33
1	hR	184	TRP	C-N	-5.00	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	i8	66	MET	N-CA	5.00	1.52	1.46
1	ie	24	VAL	N-CA	-5.00	1.40	1.46
1	ie	25	LYS	N-CA	5.00	1.52	1.46
1	ii	220	GLY	N-CA	5.00	1.52	1.45
1	il	15	ILE	CA-C	-5.00	1.47	1.52
1	im	14	ALA	C-N	5.00	1.40	1.33
1	io	147	PRO	C-N	5.00	1.40	1.33
1	iy	51	ASP	CA-CB	5.00	1.61	1.53
1	j1	123	PRO	CA-C	-5.00	1.46	1.52
1	jn	104	ILE	N-CA	5.00	1.52	1.46
1	jo	178	SER	CA-CB	5.00	1.61	1.53
1	jp	123	PRO	CA-C	-5.00	1.45	1.52
1	jF	85	PRO	CA-C	5.00	1.59	1.52
1	jJ	152	ASP	CA-CB	5.00	1.61	1.53
1	jY	37	ILE	CA-CB	-5.00	1.51	1.54
1	k7	12	HIS	ND1-CE1	5.00	1.37	1.32
1	ke	138	LEU	CB-CG	5.00	1.63	1.53
1	kk	80	TRP	CD2-CE2	-5.00	1.32	1.41
1	24	197	ASP	CA-C	-5.00	1.46	1.52
1	kR	226	HIS	ND1-CE1	5.00	1.37	1.32
1	kY	82	ARG	CA-CB	5.00	1.61	1.53
1	26	85	PRO	N-CA	-5.00	1.41	1.47
1	lb	87	HIS	ND1-CE1	5.00	1.37	1.32
1	lq	162	ARG	CA-C	5.00	1.60	1.52
1	ls	125	PRO	CA-C	5.00	1.57	1.52
1	lt	108	THR	N-CA	5.00	1.51	1.46
1	lB	68	MET	CA-C	5.00	1.59	1.52
1	lB	173	ARG	CA-C	-5.00	1.45	1.52
1	lC	154	ARG	CA-CB	5.00	1.61	1.53
1	lJ	39	MET	CA-C	5.00	1.59	1.52
1	lO	84	HIS	ND1-CE1	5.00	1.37	1.32
1	2e	218	CYS	C-N	5.00	1.40	1.33
1	2p	53	ASN	C-N	5.00	1.40	1.33
1	2H	210	THR	C-N	5.00	1.40	1.33
1	2T	136	LEU	CA-CB	5.00	1.61	1.53
1	2W	95	GLN	CA-C	-5.00	1.46	1.53
1	3h	122	PRO	N-CD	-5.00	1.40	1.47
1	3Y	83	LEU	N-CA	5.00	1.52	1.46
1	41	88	ALA	N-CA	-5.00	1.39	1.45
1	43	2	ILE	CA-CB	5.00	1.60	1.54
1	4i	148	THR	N-CA	-5.00	1.40	1.46
1	4j	123	PRO	C-N	5.00	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	4q	193	ASN	CA-CB	5.00	1.61	1.53
1	5b	200	THR	CA-C	5.00	1.59	1.52
1	5g	200	THR	CA-C	5.00	1.59	1.52
1	5h	132	ARG	CA-C	5.00	1.59	1.52
1	5j	33	SER	CA-C	5.00	1.59	1.52
1	5Q	149	SER	C-N	5.00	1.40	1.34
1	69	162	ARG	C-O	-5.00	1.18	1.24
1	6f	106	GLY	CA-C	-5.00	1.44	1.51
1	6l	144	MET	CA-CB	5.00	1.61	1.53
1	6u	227	LYS	N-CA	-5.00	1.40	1.46
1	6w	24	VAL	N-CA	-5.00	1.40	1.46
1	6B	90	PRO	CA-C	-5.00	1.45	1.52
1	6G	220	GLY	CA-C	-5.00	1.44	1.51
1	74	21	ASN	CA-CB	5.00	1.61	1.53
1	74	195	ASN	N-CA	-5.00	1.40	1.45
1	7b	229	ARG	CA-CB	5.00	1.60	1.53
1	7s	120	HIS	CD2-NE2	5.00	1.43	1.37
1	7y	77	ALA	CA-C	5.00	1.59	1.52
1	7H	48	THR	CA-C	5.00	1.59	1.53
1	7N	212	GLU	CA-CB	5.00	1.61	1.53
1	7T	69	LEU	CA-CB	5.00	1.61	1.53
1	84	84	HIS	ND1-CE1	5.00	1.37	1.32
1	8k	1	PRO	N-CA	5.00	1.54	1.47
1	8y	11	VAL	CA-C	5.00	1.59	1.52
1	8F	93	PRO	C-N	-5.00	1.28	1.33
1	8R	180	GLU	N-CA	-5.00	1.40	1.46
1	8T	3	VAL	CA-C	-5.00	1.46	1.52
1	8V	23	TRP	C-O	-5.00	1.18	1.24
1	8Y	105	ALA	C-N	5.00	1.40	1.33
1	97	18	ARG	CA-CB	5.00	1.61	1.53
1	9g	12	HIS	CD2-NE2	5.00	1.43	1.37
1	9j	78	ALA	N-CA	-5.00	1.40	1.46
1	9w	175	GLU	CA-C	-5.00	1.46	1.52
1	9L	102	SER	CA-CB	5.00	1.61	1.53
1	9O	3	VAL	C-N	5.00	1.40	1.33
1	an	137	GLY	N-CA	-5.00	1.39	1.45
1	au	142	VAL	CA-C	5.00	1.59	1.52
1	ay	219	GLN	CA-C	-5.00	1.46	1.52
1	b5	93	PRO	CA-CB	5.00	1.60	1.53
1	17	13	GLN	CA-C	-5.00	1.46	1.52
1	bk	35	GLU	CA-C	-5.00	1.45	1.52
1	bm	116	GLY	CA-C	-5.00	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	bo	5	ASN	CA-CB	5.00	1.59	1.53
1	bF	59	VAL	CA-C	5.00	1.59	1.52
1	bG	87	HIS	ND1-CE1	5.00	1.37	1.32
1	bK	73	ILE	N-CA	5.00	1.52	1.46
1	bP	191	VAL	CA-C	5.00	1.59	1.52
1	1c	224	PRO	CA-CB	5.00	1.61	1.53
1	cq	125	PRO	CA-CB	-5.00	1.47	1.53
1	ct	1	PRO	N-CA	5.00	1.54	1.47
1	ct	69	LEU	CB-CG	5.00	1.63	1.53
1	1f	37	ILE	CA-CB	-5.00	1.50	1.53
1	1g	62	HIS	CE1-NE2	5.00	1.37	1.32
1	cL	60	GLY	C-O	-5.00	1.17	1.23
1	d4	51	ASP	N-CA	-5.00	1.40	1.46
1	da	209	ALA	N-CA	-5.00	1.39	1.46
1	dc	137	GLY	N-CA	5.00	1.52	1.45
1	dx	225	GLY	N-CA	5.00	1.51	1.45
1	dM	187	GLU	N-CA	-5.00	1.40	1.46
1	dO	123	PRO	N-CD	-5.00	1.40	1.47
1	dU	203	LYS	C-O	-5.00	1.18	1.24
1	e3	186	THR	N-CA	5.00	1.52	1.46
1	eo	111	LEU	C-O	-5.00	1.17	1.24
1	eF	24	VAL	N-CA	-5.00	1.40	1.46
1	eH	216	THR	C-N	5.00	1.40	1.33
1	eN	69	LEU	C-O	-5.00	1.18	1.24
1	eV	149	SER	N-CA	-5.00	1.38	1.46
1	eZ	55	MET	CA-C	5.00	1.59	1.52
1	f3	142	VAL	N-CA	-5.00	1.40	1.46
1	f6	48	THR	CA-C	5.00	1.58	1.53
1	fk	152	ASP	CA-CB	-5.00	1.45	1.53
1	fm	87	HIS	ND1-CE1	5.00	1.37	1.32
1	fz	10	MET	C-N	5.00	1.40	1.33
1	fV	72	THR	N-CA	5.00	1.52	1.46
1	fZ	158	LYS	CA-C	5.00	1.58	1.52
1	H	154	ARG	CD-NE	5.00	1.53	1.46
1	5	9	GLN	CA-C	-5.00	1.46	1.53

All (204007) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l0	162	ARG	NE-CZ-NH2	-18.17	102.85	119.20
1	b5	37	ILE	O-C-N	-17.93	108.94	120.42
1	1I	36	VAL	CA-C-N	17.34	131.16	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1I	36	VAL	C-N-CA	17.34	131.16	120.24
1	95	33	SER	O-C-N	-17.34	110.61	121.71
1	aP	150	ILE	N-CA-C	17.07	126.57	110.53
1	a1	36	VAL	CA-C-N	17.03	130.97	120.24
1	a1	36	VAL	C-N-CA	17.03	130.97	120.24
1	6C	37	ILE	CA-C-O	-17.03	107.28	118.69
1	c3	195	ASN	CA-CB-CG	16.97	129.57	112.60
1	9X	37	ILE	O-C-N	-16.94	109.58	120.42
1	eQ	188	THR	CA-C-O	16.93	131.70	119.68
1	gu	124	ILE	O-C-N	-16.73	110.83	121.37
1	9q	36	VAL	CA-C-N	15.88	130.25	120.24
1	9q	36	VAL	C-N-CA	15.88	130.25	120.24
1	l1	36	VAL	CA-C-N	15.80	132.97	120.33
1	l1	36	VAL	C-N-CA	15.80	132.97	120.33
1	63	18	ARG	NE-CZ-NH2	-15.69	105.08	119.20
1	Q	33	SER	O-C-N	-15.61	111.72	121.71
1	dw	36	VAL	CA-C-N	15.56	130.05	120.24
1	dw	36	VAL	C-N-CA	15.56	130.05	120.24
1	fs	37	ILE	O-C-N	-15.54	109.03	120.07
1	dR	37	ILE	N-CA-CB	15.34	120.16	110.50
1	7w	126	VAL	CA-C-N	15.29	136.95	119.98
1	7w	126	VAL	C-N-CA	15.29	136.95	119.98
1	8m	195	ASN	CA-CB-CG	15.20	127.80	112.60
1	8z	124	ILE	O-C-N	-15.17	111.81	121.37
1	1q	32	PHE	CA-CB-CG	-15.04	98.76	113.80
1	85	36	VAL	CA-C-N	15.01	132.34	120.33
1	85	36	VAL	C-N-CA	15.01	132.34	120.33
1	34	152	ASP	CA-CB-CG	15.00	127.60	112.60
1	3E	36	VAL	CA-C-N	14.96	129.66	120.24
1	3E	36	VAL	C-N-CA	14.96	129.66	120.24
1	11	36	VAL	CA-C-N	14.93	129.65	120.24
1	11	36	VAL	C-N-CA	14.93	129.65	120.24
1	2c	124	ILE	O-C-N	-14.89	111.99	121.37
1	aL	215	MET	N-CA-C	14.84	126.94	111.07
1	2O	143	ARG	NE-CZ-NH1	14.79	136.29	121.50
1	ay	36	VAL	CA-C-N	14.76	132.14	120.33
1	ay	36	VAL	C-N-CA	14.76	132.14	120.33
1	kg	195	ASN	CA-CB-CG	14.76	127.36	112.60
1	f5	82	ARG	NE-CZ-NH2	-14.75	105.92	119.20
1	t	62	HIS	CA-CB-CG	-14.73	99.07	113.80
1	bE	123	PRO	CA-C-N	14.68	132.58	122.60
1	bE	123	PRO	C-N-CA	14.68	132.58	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	162	ARG	NE-CZ-NH2	-14.66	106.00	119.20
1	kM	124	ILE	O-C-N	-14.66	111.14	121.55
1	cI	166	ASP	CA-CB-CG	14.65	127.25	112.60
1	du	36	VAL	CA-C-N	14.58	129.43	120.24
1	du	36	VAL	C-N-CA	14.58	129.43	120.24
1	7D	37	ILE	N-CA-CB	14.57	120.28	110.52
1	ej	37	ILE	N-CA-CB	-14.55	101.33	110.50
1	lq	123	PRO	CA-C-N	-14.49	112.16	122.59
1	lq	123	PRO	C-N-CA	-14.49	112.16	122.59
1	67	139	ASN	CA-CB-CG	14.48	127.08	112.60
1	9n	32	PHE	CA-CB-CG	-14.47	99.33	113.80
1	iC	37	ILE	N-CA-CB	-14.45	99.18	110.45
1	4w	33	SER	O-C-N	-14.43	112.47	121.71
1	dM	154	ARG	NE-CZ-NH1	14.41	135.91	121.50
1	iX	36	VAL	CA-C-N	14.40	131.85	120.33
1	iX	36	VAL	C-N-CA	14.40	131.85	120.33
1	en	33	SER	O-C-N	-14.33	112.54	121.71
1	46	36	VAL	CA-C-N	14.30	129.25	120.24
1	46	36	VAL	C-N-CA	14.30	129.25	120.24
1	ex	36	VAL	CA-C-N	14.26	131.73	120.33
1	ex	36	VAL	C-N-CA	14.26	131.73	120.33
1	7T	184	TRP	N-CA-C	14.24	126.30	111.07
1	6t	198	CYS	N-CA-C	14.23	126.79	111.28
1	8N	124	ILE	O-C-N	-14.22	112.41	121.37
1	65	5	ASN	CA-CB-CG	14.19	126.79	112.60
1	iQ	36	VAL	CA-C-N	14.19	131.68	120.33
1	iQ	36	VAL	C-N-CA	14.19	131.68	120.33
1	8Y	124	ILE	CA-C-O	-14.19	111.18	119.12
1	1I	229	ARG	NE-CZ-NH1	14.18	135.68	121.50
1	9K	36	VAL	CA-C-N	14.16	129.16	120.24
1	9K	36	VAL	C-N-CA	14.16	129.16	120.24
1	il	36	VAL	CA-C-N	14.14	134.01	120.43
1	il	36	VAL	C-N-CA	14.14	134.01	120.43
1	91	204	ALA	N-CA-C	14.12	126.67	111.28
1	M	167	ARG	NE-CZ-NH1	14.11	135.61	121.50
1	h6	195	ASN	CA-CB-CG	14.09	126.69	112.60
1	cJ	36	VAL	CA-C-N	14.06	129.10	120.24
1	cJ	36	VAL	C-N-CA	14.06	129.10	120.24
1	6d	37	ILE	O-C-N	-14.05	111.43	120.42
1	kb	97	ARG	NE-CZ-NH1	14.03	135.53	121.50
1	aT	164	TYR	N-CA-C	14.03	126.57	111.28
1	2s	51	ASP	CA-CB-CG	-14.03	98.57	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9e	36	VAL	CA-C-N	14.03	129.08	120.24
1	9e	36	VAL	C-N-CA	14.03	129.08	120.24
1	dV	166	ASP	CA-CB-CG	14.01	126.61	112.60
1	bh	37	ILE	O-C-N	-13.98	111.47	120.42
1	9a	37	ILE	O-C-N	-13.98	111.47	120.42
1	ek	79	GLU	N-CA-C	13.96	126.01	111.07
1	8H	176	GLN	CA-C-N	13.95	141.73	122.34
1	8H	176	GLN	C-N-CA	13.95	141.73	122.34
1	fP	99	PRO	N-CA-CB	-13.95	93.88	103.23
1	3T	36	VAL	CA-C-N	13.90	129.00	120.24
1	3T	36	VAL	C-N-CA	13.90	129.00	120.24
1	eP	100	ARG	NE-CZ-NH2	-13.90	106.69	119.20
1	9T	36	VAL	CA-C-N	13.89	128.99	120.24
1	9T	36	VAL	C-N-CA	13.89	128.99	120.24
1	2o	125	PRO	N-CA-CB	-13.88	93.63	102.79
1	k6	166	ASP	CA-CB-CG	13.88	126.48	112.60
1	5Q	124	ILE	O-C-N	-13.87	111.70	121.55
1	2m	184	TRP	O-C-N	-13.85	106.36	122.15
1	cX	195	ASN	CA-CB-CG	13.85	126.44	112.60
1	jl	29	GLU	N-CA-C	13.83	125.86	111.07
1	hX	18	ARG	NE-CZ-NH2	-13.82	106.77	119.20
1	gZ	193	ASN	CA-CB-CG	-13.80	98.80	112.60
1	1d	32	PHE	CA-CB-CG	-13.80	100.00	113.80
1	le	36	VAL	CA-C-N	13.79	133.67	120.43
1	le	36	VAL	C-N-CA	13.79	133.67	120.43
1	lA	215	MET	N-CA-C	13.76	126.00	111.14
1	7U	25	LYS	N-CA-C	13.75	125.78	111.07
1	6C	90	PRO	N-CA-CB	13.74	110.62	102.92
1	bO	21	ASN	CA-CB-CG	13.74	126.34	112.60
1	im	89	GLY	O-C-N	-13.73	108.04	121.77
1	5X	37	ILE	O-C-N	-13.73	111.63	120.42
1	1R	36	VAL	CA-C-N	13.70	128.87	120.24
1	1R	36	VAL	C-N-CA	13.70	128.87	120.24
1	bB	37	ILE	O-C-N	-13.70	111.65	120.42
1	gL	32	PHE	CA-CB-CG	-13.70	100.10	113.80
1	9m	161	PHE	CA-C-N	13.68	138.23	120.44
1	9m	161	PHE	C-N-CA	13.68	138.23	120.44
1	2p	221	VAL	CA-C-N	13.67	133.09	120.10
1	2p	221	VAL	C-N-CA	13.67	133.09	120.10
1	js	100	ARG	CA-C-N	13.65	135.01	120.00
1	js	100	ARG	C-N-CA	13.65	135.01	120.00
1	7L	120	HIS	CA-CB-CG	13.64	127.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8d	12	HIS	CA-CB-CG	13.63	127.43	113.80
1	6v	126	VAL	CA-C-N	13.59	135.06	119.98
1	6v	126	VAL	C-N-CA	13.59	135.06	119.98
1	40	37	ILE	N-CA-CB	13.56	119.04	110.50
1	9B	37	ILE	O-C-N	-13.54	111.75	120.42
1	lx	60	GLY	CA-C-N	13.49	134.44	122.43
1	lx	60	GLY	C-N-CA	13.49	134.44	122.43
1	fW	36	VAL	N-CA-C	13.44	124.33	110.62
1	cy	36	VAL	CA-C-N	13.43	133.32	120.43
1	cy	36	VAL	C-N-CA	13.43	133.32	120.43
1	8Y	37	ILE	O-C-N	-13.42	111.83	120.42
1	kM	123	PRO	CA-C-N	13.41	131.72	122.60
1	kM	123	PRO	C-N-CA	13.41	131.72	122.60
1	9C	36	VAL	N-CA-CB	13.39	125.38	110.51
1	bB	36	VAL	CA-C-N	13.38	131.04	120.33
1	bB	36	VAL	C-N-CA	13.38	131.04	120.33
1	ei	154	ARG	NE-CZ-NH1	13.37	134.87	121.50
1	lC	37	ILE	N-CA-CB	13.37	118.92	110.50
1	1q	199	LYS	N-CA-C	13.37	125.85	111.28
1	94	161	PHE	CA-CB-CG	-13.36	100.44	113.80
1	gA	191	VAL	N-CA-C	13.33	124.22	110.62
1	9O	144	MET	N-CA-C	13.33	125.33	111.07
1	jO	36	VAL	CA-C-N	13.33	128.64	120.24
1	jO	36	VAL	C-N-CA	13.33	128.64	120.24
1	7l	37	ILE	CA-C-O	-13.32	107.53	118.85
1	eq	161	PHE	CA-CB-CG	13.31	127.11	113.80
1	9Q	33	SER	O-C-N	-13.31	113.19	121.71
1	cf	212	GLU	N-CA-C	13.30	125.31	111.07
1	6F	162	ARG	NE-CZ-NH2	-13.29	107.24	119.20
1	ep	161	PHE	CA-CB-CG	13.28	127.08	113.80
1	6K	36	VAL	CA-C-N	13.27	130.95	120.33
1	6K	36	VAL	C-N-CA	13.27	130.95	120.33
1	7l	36	VAL	CA-C-N	13.26	128.59	120.24
1	7l	36	VAL	C-N-CA	13.26	128.59	120.24
1	9s	102	SER	CA-C-O	13.25	134.47	120.42
1	dZ	111	LEU	N-CA-C	13.24	127.36	111.33
1	er	62	HIS	CA-CB-CG	-13.23	100.56	113.80
1	8P	112	GLN	N-CA-C	13.23	125.70	111.28
1	e7	168	PHE	CA-CB-CG	13.20	127.00	113.80
1	jL	158	LYS	N-CA-C	13.18	125.17	111.07
1	5i	173	ARG	NE-CZ-NH1	13.18	134.68	121.50
1	6Y	159	GLU	O-C-N	-13.18	108.80	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9y	187	GLU	N-CA-C	13.16	125.35	111.14
1	lh	33	SER	O-C-N	-13.16	113.29	121.71
1	64	37	ILE	N-CA-CB	-13.15	102.21	110.50
1	cH	82	ARG	NE-CZ-NH2	-13.14	107.37	119.20
1	cL	37	ILE	CA-C-O	-13.14	107.68	118.85
1	5c	57	ASN	CA-CB-CG	-13.13	99.47	112.60
1	i0	36	VAL	CA-C-N	13.13	133.04	120.43
1	i0	36	VAL	C-N-CA	13.13	133.04	120.43
1	if	32	PHE	CA-CB-CG	-13.13	100.67	113.80
1	ct	21	ASN	CA-CB-CG	13.13	125.73	112.60
1	1u	28	GLU	N-CA-C	13.11	126.79	111.71
1	R	33	SER	O-C-N	-13.11	112.67	121.85
1	96	166	ASP	CA-CB-CG	13.11	125.71	112.60
1	5J	21	ASN	CA-CB-CG	13.10	125.70	112.60
1	j2	167	ARG	NE-CZ-NH2	-13.09	107.42	119.20
1	9B	124	ILE	O-C-N	-13.09	113.13	121.37
1	cO	162	ARG	N-CA-C	13.08	125.54	111.28
1	8n	37	ILE	CA-C-O	-13.07	109.93	118.69
1	7l	117	TRP	N-CA-C	13.06	125.52	111.28
1	fC	36	VAL	CA-C-N	13.05	128.46	120.24
1	fC	36	VAL	C-N-CA	13.05	128.46	120.24
1	l3	37	ILE	O-C-N	-13.05	112.07	120.42
1	d3	124	ILE	O-C-N	-13.04	111.29	121.46
1	7P	223	GLY	CA-C-N	13.03	133.88	119.93
1	7P	223	GLY	C-N-CA	13.03	133.88	119.93
1	kf	173	ARG	NE-CZ-NH2	13.03	130.93	119.20
1	9N	154	ARG	N-CA-C	13.02	128.60	110.24
1	kK	50	GLN	N-CA-C	13.02	125.47	111.28
1	1l	141	ILE	N-CA-C	13.01	123.89	110.62
1	8s	124	ILE	CA-C-O	-13.00	111.48	119.15
1	4o	36	VAL	CA-C-N	12.99	128.43	120.24
1	4o	36	VAL	C-N-CA	12.99	128.43	120.24
1	a6	211	LEU	N-CA-C	12.99	124.97	111.07
1	4o	82	ARG	NE-CZ-NH2	-12.98	107.52	119.20
1	5Q	195	ASN	CA-CB-CG	12.98	125.58	112.60
1	c3	37	ILE	N-CA-CB	-12.96	102.33	110.50
1	bA	37	ILE	N-CA-CB	12.96	118.66	110.50
1	3w	221	VAL	CA-C-N	12.95	132.36	119.92
1	3w	221	VAL	C-N-CA	12.95	132.36	119.92
1	47	167	ARG	NE-CZ-NH1	12.96	134.46	121.50
1	j7	77	ALA	N-CA-C	12.95	125.40	111.28
1	k0	36	VAL	CA-C-N	12.94	128.39	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k0	36	VAL	C-N-CA	12.94	128.39	120.24
1	dl	199	LYS	N-CA-C	12.94	126.64	111.11
1	3V	12	HIS	CA-CB-CG	12.93	126.73	113.80
1	6y	202	LEU	N-CA-C	12.93	126.58	111.71
1	84	36	VAL	CA-C-N	12.92	128.38	120.24
1	84	36	VAL	C-N-CA	12.92	128.38	120.24
1	eg	191	VAL	O-C-N	-12.91	109.35	121.87
1	f0	37	ILE	N-CA-CB	-12.91	102.37	110.50
1	jD	112	GLN	N-CA-C	12.91	125.35	111.28
1	gd	162	ARG	NE-CZ-NH2	-12.91	107.58	119.20
1	ag	32	PHE	CA-CB-CG	-12.89	100.91	113.80
1	8V	192	GLN	N-CA-C	12.89	126.92	111.33
1	7j	36	VAL	CA-C-N	12.88	128.36	120.24
1	7j	36	VAL	C-N-CA	12.88	128.36	120.24
1	cW	36	VAL	CA-C-N	12.88	130.63	120.33
1	hj	115	ILE	CA-C-N	12.88	134.54	119.99
1	hj	115	ILE	C-N-CA	12.88	134.54	119.99
1	3j	223	GLY	O-C-N	-12.88	110.83	122.42
1	cW	36	VAL	C-N-CA	12.88	130.63	120.33
1	7z	63	GLN	N-CA-C	12.87	125.31	111.28
1	fM	132	ARG	NE-CZ-NH2	-12.87	107.62	119.20
1	jk	36	VAL	CA-C-N	12.85	128.34	120.24
1	jk	36	VAL	C-N-CA	12.85	128.34	120.24
1	66	84	HIS	O-C-N	-12.85	111.82	121.84
1	aO	208	ALA	N-CA-C	12.85	125.28	111.28
1	T	92	GLU	O-C-N	-12.84	112.76	121.88
1	34	36	VAL	CA-C-N	12.83	128.32	120.24
1	34	36	VAL	C-N-CA	12.83	128.32	120.24
1	ah	166	ASP	CA-CB-CG	12.83	125.43	112.60
1	ia	120	HIS	CA-CB-CG	12.82	126.62	113.80
1	4N	127	GLY	CA-C-N	12.82	137.11	120.44
1	4N	127	GLY	C-N-CA	12.82	137.11	120.44
1	9B	161	PHE	CA-CB-CG	12.82	126.62	113.80
1	lA	146	SER	O-C-N	-12.82	110.87	121.38
1	3r	143	ARG	NE-CZ-NH1	12.81	134.31	121.50
1	1y	29	GLU	N-CA-C	12.80	124.77	111.07
1	hz	81	ASP	CA-CB-CG	12.80	125.40	112.60
1	kU	159	GLU	O-C-N	-12.79	110.01	121.39
1	kI	146	SER	CA-C-O	-12.77	109.62	119.46
1	iQ	37	ILE	CA-C-O	-12.77	110.13	118.69
1	kn	121	ASN	CB-CA-C	12.77	124.54	109.47
1	54	37	ILE	O-C-N	-12.76	112.25	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	an	92	GLU	CA-C-O	-12.76	106.89	118.63
1	4Z	75	GLU	N-CA-C	12.74	125.17	111.28
1	4G	36	VAL	CA-C-N	12.73	132.65	120.43
1	4G	36	VAL	C-N-CA	12.73	132.65	120.43
1	o	189	LEU	N-CA-C	12.73	125.16	111.28
1	gV	37	ILE	N-CA-CB	12.71	119.04	110.52
1	41	97	ARG	NE-CZ-NH1	12.70	134.19	121.50
1	le	37	ILE	O-C-N	-12.69	112.30	120.42
1	2X	37	ILE	CA-C-O	-12.68	109.08	118.71
1	5F	141	ILE	N-CA-C	12.68	122.59	110.42
1	Y	24	VAL	CA-C-N	12.66	137.63	120.54
1	Y	24	VAL	C-N-CA	12.66	137.63	120.54
1	jy	126	VAL	N-CA-C	12.65	122.57	110.42
1	9T	161	PHE	CA-CB-CG	12.64	126.44	113.80
1	hr	142	VAL	N-CA-C	12.64	122.56	110.42
1	8L	167	ARG	NE-CZ-NH2	-12.64	107.83	119.20
1	aq	60	GLY	CA-C-N	12.64	131.34	121.61
1	aq	60	GLY	C-N-CA	12.64	131.34	121.61
1	aV	37	ILE	N-CA-CB	12.63	118.98	110.52
1	3U	84	HIS	CA-CB-CG	-12.63	101.17	113.80
1	bT	107	THR	O-C-N	-12.62	109.07	122.07
1	a4	18	ARG	NE-CZ-NH2	12.61	130.55	119.20
1	62	124	ILE	O-C-N	-12.61	113.43	121.37
1	O	195	ASN	CA-CB-CG	12.61	125.21	112.60
1	7o	37	ILE	CA-C-O	-12.60	110.25	118.69
1	8j	34	PRO	CA-C-N	12.60	137.65	120.38
1	8j	34	PRO	C-N-CA	12.60	137.65	120.38
1	9P	166	ASP	CA-CB-CG	12.59	125.19	112.60
1	di	154	ARG	NE-CZ-NH2	12.59	130.53	119.20
1	cC	136	LEU	CA-C-N	12.59	133.95	119.98
1	cC	136	LEU	C-N-CA	12.59	133.95	119.98
1	fb	37	ILE	O-C-N	-12.57	112.37	120.42
1	kC	167	ARG	N-CA-C	12.56	124.97	111.28
1	kf	209	ALA	N-CA-C	12.56	125.86	110.41
1	an	115	ILE	CA-C-N	12.56	134.18	119.99
1	an	115	ILE	C-N-CA	12.56	134.18	119.99
1	fY	91	ILE	O-C-N	-12.56	112.31	121.98
1	3	84	HIS	O-C-N	-12.56	115.75	121.53
1	c6	37	ILE	O-C-N	-12.55	112.39	120.42
1	29	64	ALA	N-CA-C	12.54	124.95	111.28
1	6j	37	ILE	O-C-N	-12.54	112.39	120.42
1	5C	229	ARG	NE-CZ-NH1	12.54	134.04	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	190	LEU	CA-C-N	12.53	136.37	120.70
1	ig	190	LEU	C-N-CA	12.53	136.37	120.70
1	6h	34	PRO	CA-C-N	12.53	138.09	120.29
1	6h	34	PRO	C-N-CA	12.53	138.09	120.29
1	aJ	36	VAL	CA-C-N	12.53	132.46	120.43
1	aJ	36	VAL	C-N-CA	12.53	132.46	120.43
1	9v	221	VAL	CA-C-N	12.53	133.58	122.43
1	9v	221	VAL	C-N-CA	12.53	133.58	122.43
1	ed	36	VAL	CA-C-N	12.53	128.13	120.24
1	ed	36	VAL	C-N-CA	12.53	128.13	120.24
1	by	37	ILE	O-C-N	-12.51	112.42	120.42
1	5E	173	ARG	NE-CZ-NH2	12.50	130.45	119.20
1	52	37	ILE	O-C-N	-12.50	112.42	120.42
1	3o	145	TYR	CA-C-N	12.50	135.99	122.74
1	3o	145	TYR	C-N-CA	12.50	135.99	122.74
1	d4	5	ASN	CA-CB-CG	12.50	125.10	112.60
1	bc	37	ILE	O-C-N	-12.49	112.42	120.42
1	kD	33	SER	O-C-N	-12.49	113.72	121.71
1	kv	139	ASN	CA-CB-CG	-12.48	100.12	112.60
1	hh	36	VAL	N-CA-C	12.48	123.33	110.72
1	dx	162	ARG	N-CA-C	12.48	126.43	111.33
1	gU	115	ILE	O-C-N	-12.48	108.98	121.83
1	dk	136	LEU	CA-C-N	12.47	133.79	119.94
1	dk	136	LEU	C-N-CA	12.47	133.79	119.94
1	1	121	ASN	CA-C-O	-12.47	109.86	119.59
1	6t	129	ILE	O-C-N	-12.46	108.99	121.83
1	dN	159	GLU	N-CA-C	12.46	124.90	109.57
1	ec	37	ILE	N-CA-CB	12.46	118.35	110.50
1	kJ	161	PHE	CA-CB-CG	12.46	126.26	113.80
1	e7	100	ARG	NE-CZ-NH1	12.46	133.96	121.50
1	j6	122	PRO	CA-C-N	12.46	132.61	119.78
1	j6	122	PRO	C-N-CA	12.46	132.61	119.78
1	4f	98	GLU	O-C-N	-12.46	109.89	121.35
1	1w	154	ARG	NE-CZ-NH1	12.45	133.95	121.50
1	4i	36	VAL	CA-C-N	12.45	128.08	120.24
1	4i	36	VAL	C-N-CA	12.45	128.08	120.24
1	93	37	ILE	CA-C-O	-12.44	108.27	118.85
1	52	18	ARG	NE-CZ-NH2	-12.44	108.01	119.20
1	cN	37	ILE	O-C-N	-12.42	112.47	120.42
1	77	167	ARG	N-CA-C	12.41	124.81	111.28
1	C	63	GLN	OE1-CD-NE2	-12.41	110.19	122.60
1	ie	168	PHE	CA-CB-CG	12.40	126.20	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	44	87	HIS	CA-CB-CG	12.40	126.20	113.80
1	3U	201	ILE	CA-C-N	12.40	136.56	120.44
1	3U	201	ILE	C-N-CA	12.40	136.56	120.44
1	hP	33	SER	O-C-N	-12.39	113.78	121.71
1	hd	36	VAL	CA-C-N	12.38	130.24	120.33
1	hd	36	VAL	C-N-CA	12.38	130.24	120.33
1	9J	217	ALA	N-CA-C	12.38	126.65	110.43
1	kD	36	VAL	CA-C-N	12.37	128.03	120.24
1	kD	36	VAL	C-N-CA	12.37	128.03	120.24
1	2N	97	ARG	NE-CZ-NH2	12.37	130.34	119.20
1	k7	36	VAL	CA-C-N	12.37	130.22	120.33
1	k7	36	VAL	C-N-CA	12.37	130.22	120.33
1	8R	167	ARG	NE-CZ-NH2	-12.36	108.08	119.20
1	kr	124	ILE	O-C-N	-12.36	113.58	121.37
1	cx	36	VAL	CA-C-N	12.36	130.22	120.33
1	cx	36	VAL	C-N-CA	12.36	130.22	120.33
1	z	12	HIS	CA-CB-CG	12.36	126.16	113.80
1	kI	229	ARG	N-CA-C	12.35	126.30	110.24
1	an	139	ASN	CA-CB-CG	12.35	124.95	112.60
1	g0	202	LEU	N-CA-C	12.35	124.28	111.07
1	52	162	ARG	NE-CZ-NH1	12.35	133.85	121.50
1	iV	171	THR	N-CA-C	12.35	124.74	111.28
1	5c	93	PRO	N-CA-CB	12.34	109.83	102.92
1	jT	70	LYS	N-CA-C	12.33	126.12	111.82
1	af	97	ARG	NE-CZ-NH2	-12.33	108.11	119.20
1	2G	212	GLU	N-CA-C	12.32	126.24	111.33
1	ce	16	SER	O-C-N	-12.31	111.28	121.38
1	h1	163	ASP	CA-CB-CG	-12.31	100.29	112.60
1	ja	159	GLU	O-C-N	-12.30	110.61	121.31
1	6E	205	LEU	N-CA-C	12.30	125.86	111.71
1	gT	143	ARG	NE-CZ-NH2	-12.29	108.14	119.20
1	2C	166	ASP	CA-CB-CG	12.28	124.88	112.60
1	cI	192	GLN	N-CA-C	12.28	126.07	111.82
1	7M	195	ASN	CA-CB-CG	12.28	124.88	112.60
1	fX	18	ARG	NE-CZ-NH1	12.27	133.77	121.50
1	aI	36	VAL	CA-C-N	12.27	130.14	120.33
1	aI	36	VAL	C-N-CA	12.27	130.14	120.33
1	l9	32	PHE	CA-CB-CG	-12.26	101.54	113.80
1	8Y	100	ARG	NE-CZ-NH1	12.26	133.76	121.50
1	4J	37	ILE	CA-C-O	-12.26	108.43	118.85
1	7S	154	ARG	NE-CZ-NH1	12.24	133.74	121.50
1	8K	70	LYS	N-CA-C	12.24	124.62	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8F	32	PHE	CA-CB-CG	-12.24	101.56	113.80
1	hk	59	VAL	N-CA-C	12.24	123.10	110.62
1	ha	79	GLU	N-CA-C	12.23	124.61	111.28
1	hH	81	ASP	O-C-N	-12.23	109.15	122.12
1	fy	89	GLY	CA-C-N	12.23	133.02	119.93
1	fy	89	GLY	C-N-CA	12.23	133.02	119.93
1	2F	143	ARG	NE-CZ-NH2	-12.23	108.19	119.20
1	5S	166	ASP	CA-CB-CG	12.21	124.81	112.60
1	8a	166	ASP	CA-CB-CG	12.20	124.80	112.60
1	l0	173	ARG	NE-CZ-NH2	12.20	130.18	119.20
1	jv	61	GLY	O-C-N	-12.20	112.98	123.59
1	dX	150	ILE	N-CA-C	12.19	124.52	110.62
1	7f	24	VAL	CA-C-O	-12.19	108.27	120.95
1	6A	121	ASN	O-C-N	-12.19	110.54	121.39
1	8T	26	VAL	N-CA-C	12.19	123.05	110.62
1	dG	28	GLU	N-CA-C	12.19	124.64	111.36
1	l6	203	LYS	N-CA-C	12.19	124.56	111.28
1	jk	183	ASN	CA-CB-CG	-12.18	100.42	112.60
1	3R	126	VAL	N-CA-C	12.18	123.04	110.62
1	7E	7	GLN	N-CA-C	-12.17	97.18	112.88
1	bG	13	GLN	OE1-CD-NE2	-12.17	110.43	122.60
1	jf	18	ARG	NE-CZ-NH1	12.16	133.66	121.50
1	4J	37	ILE	O-C-N	12.16	128.71	120.07
1	ae	171	THR	CA-C-N	12.16	136.96	120.54
1	ae	171	THR	C-N-CA	12.16	136.96	120.54
1	ds	63	GLN	N-CA-C	12.16	124.08	111.07
1	kw	121	ASN	OD1-CG-ND2	-12.15	110.45	122.60
1	3x	223	GLY	O-C-N	-12.15	109.62	121.77
1	bG	59	VAL	CA-C-N	12.15	132.03	121.58
1	bG	59	VAL	C-N-CA	12.15	132.03	121.58
1	43	36	VAL	CA-C-N	12.15	130.05	120.33
1	43	36	VAL	C-N-CA	12.15	130.05	120.33
1	1M	88	ALA	N-CA-C	12.15	124.60	111.36
1	hO	143	ARG	CA-C-N	12.15	136.56	120.28
1	hO	143	ARG	C-N-CA	12.15	136.56	120.28
1	O	126	VAL	CA-C-N	12.15	133.43	119.94
1	O	126	VAL	C-N-CA	12.15	133.43	119.94
1	9N	32	PHE	CA-CB-CG	-12.14	101.66	113.80
1	fq	37	ILE	N-CA-CB	12.14	118.66	110.52
1	kW	143	ARG	NE-CZ-NH1	12.14	133.64	121.50
1	32	37	ILE	O-C-N	-12.13	112.65	120.42
1	bt	181	VAL	N-CA-C	12.13	122.07	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gj	146	SER	CB-CA-C	-12.13	99.52	110.44
1	kS	213	GLU	N-CA-C	12.13	124.50	111.28
1	1A	92	GLU	CA-C-N	12.12	132.27	119.90
1	1A	92	GLU	C-N-CA	12.12	132.27	119.90
1	ka	124	ILE	CB-CA-C	12.12	122.21	110.94
1	6s	165	VAL	CA-C-N	12.11	136.51	120.28
1	6s	165	VAL	C-N-CA	12.11	136.51	120.28
1	7C	121	ASN	O-C-N	-12.11	110.61	121.39
1	9j	169	TYR	N-CA-C	12.11	124.48	111.28
1	a6	114	GLN	CA-C-N	12.11	136.22	120.60
1	a6	114	GLN	C-N-CA	12.11	136.22	120.60
1	jd	33	SER	O-C-N	-12.11	113.28	121.88
1	36	143	ARG	NE-CZ-NH1	12.11	133.61	121.50
1	dj	120	HIS	CA-CB-CG	12.10	125.90	113.80
1	8A	61	GLY	CA-C-O	12.10	131.82	121.18
1	9S	82	ARG	N-CA-C	12.10	124.55	111.36
1	6k	210	THR	N-CA-CB	12.09	128.09	109.83
1	94	212	GLU	N-CA-C	12.09	124.46	111.28
1	jh	146	SER	N-CA-C	12.08	123.49	109.60
1	jP	167	ARG	CA-C-N	12.08	136.46	120.28
1	jP	167	ARG	C-N-CA	12.08	136.46	120.28
1	B	167	ARG	NH1-CZ-NH2	-12.07	103.61	119.30
1	eZ	139	ASN	CA-CB-CG	12.07	124.67	112.60
1	77	167	ARG	NE-CZ-NH1	12.07	133.57	121.50
1	ai	36	VAL	CA-C-N	12.07	129.98	120.33
1	ai	36	VAL	C-N-CA	12.07	129.98	120.33
1	fa	37	ILE	N-CA-CB	12.07	118.10	110.50
1	bW	20	LEU	N-CA-C	12.06	123.98	111.07
1	h4	87	HIS	CA-CB-CG	12.06	125.86	113.80
1	k5	141	ILE	N-CA-C	12.06	122.90	110.72
1	2Y	195	ASN	CA-CB-CG	12.06	124.66	112.60
1	aq	203	LYS	CA-C-O	12.06	133.48	120.82
1	iW	223	GLY	CA-C-N	12.06	132.19	119.89
1	iW	223	GLY	C-N-CA	12.06	132.19	119.89
1	4p	62	HIS	CA-CB-CG	-12.05	101.75	113.80
1	im	136	LEU	CA-C-N	12.05	133.36	119.98
1	im	136	LEU	C-N-CA	12.05	133.36	119.98
1	8l	74	ASN	CA-CB-CG	-12.05	100.55	112.60
1	18	179	GLN	N-CA-C	12.05	125.91	111.33
1	6R	20	LEU	N-CA-C	12.04	123.96	111.07
1	1x	2	ILE	N-CA-CB	12.04	123.85	110.72
1	ad	32	PHE	CA-CB-CG	-12.04	101.76	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eX	21	ASN	CA-CB-CG	12.03	124.63	112.60
1	dc	33	SER	O-C-N	-12.03	113.43	121.85
1	i0	5	ASN	CA-CB-CG	-12.02	100.58	112.60
1	ay	139	ASN	CA-CB-CG	12.01	124.61	112.60
1	kU	86	VAL	N-CA-C	12.01	121.82	110.53
1	bP	143	ARG	N-CA-C	12.01	124.37	111.28
1	7J	37	ILE	CA-C-O	-12.00	110.65	118.69
1	6W	28	GLU	N-CA-C	12.00	123.91	111.07
1	7F	162	ARG	NE-CZ-NH2	-12.00	108.40	119.20
1	fG	82	ARG	NE-CZ-NH2	12.00	130.00	119.20
1	l5	132	ARG	NE-CZ-NH1	11.99	133.50	121.50
1	b9	32	PHE	CA-CB-CG	-11.99	101.81	113.80
1	kd	121	ASN	O-C-N	-11.99	110.72	121.39
1	4K	48	THR	O-C-N	-11.99	108.89	121.60
1	8X	27	VAL	N-CA-C	11.99	121.93	110.42
1	1x	132	ARG	N-CA-C	11.99	124.34	111.28
1	c	36	VAL	CA-C-N	11.99	129.92	120.33
1	c	36	VAL	C-N-CA	11.99	129.92	120.33
1	2a	37	ILE	O-C-N	-11.98	111.56	120.07
1	6D	84	HIS	CA-CB-CG	-11.98	101.82	113.80
1	dE	20	LEU	N-CA-C	11.98	123.89	111.07
1	er	53	ASN	CA-CB-CG	-11.98	100.62	112.60
1	fb	176	GLN	OE1-CD-NE2	-11.98	110.62	122.60
1	di	169	TYR	N-CA-C	11.97	124.33	111.28
1	ho	186	THR	N-CA-C	11.97	124.40	111.36
1	3s	173	ARG	NE-CZ-NH2	11.96	129.97	119.20
1	6K	100	ARG	NE-CZ-NH1	11.96	133.46	121.50
1	bc	59	VAL	N-CA-C	11.96	124.97	109.30
1	id	230	VAL	N-CA-C	11.96	122.82	110.62
1	kL	124	ILE	CA-C-O	-11.96	112.42	119.12
1	aK	124	ILE	CA-C-O	-11.96	112.42	119.12
1	1U	36	VAL	CA-C-N	11.95	127.77	120.24
1	1U	36	VAL	C-N-CA	11.95	127.77	120.24
1	6v	158	LYS	N-CA-C	11.95	123.85	111.07
1	9D	224	PRO	N-CA-CB	-11.94	94.81	102.81
1	io	192	GLN	OE1-CD-NE2	-11.94	110.66	122.60
1	jS	27	VAL	N-CA-C	11.94	122.80	110.62
1	2p	172	LEU	N-CA-C	11.93	124.28	111.28
1	b7	187	GLU	N-CA-C	11.93	125.76	111.33
1	b9	134	ILE	N-CA-C	11.93	121.87	110.42
1	8l	21	ASN	CA-CB-CG	11.93	124.53	112.60
1	dw	18	ARG	NE-CZ-NH1	11.92	133.42	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	50	163	ASP	CA-CB-CG	11.92	124.52	112.60
1	er	37	ILE	O-C-N	-11.92	112.79	120.42
1	K	21	ASN	CA-CB-CG	11.92	124.52	112.60
1	f	70	LYS	N-CA-C	11.91	124.27	111.28
1	5N	36	VAL	CA-C-N	11.91	129.85	120.33
1	5N	36	VAL	C-N-CA	11.91	129.85	120.33
1	l9	36	VAL	CA-C-N	11.90	131.86	120.43
1	l9	36	VAL	C-N-CA	11.90	131.86	120.43
1	1g	36	VAL	CA-C-N	11.90	129.85	120.33
1	1g	36	VAL	C-N-CA	11.90	129.85	120.33
1	7	167	ARG	NE-CZ-NH2	-11.90	108.49	119.20
1	jL	142	VAL	N-CA-C	11.90	122.75	110.62
1	6t	197	ASP	CA-CB-CG	11.90	124.50	112.60
1	lQ	63	GLN	OE1-CD-NE2	-11.89	110.71	122.60
1	9u	32	PHE	CA-CB-CG	-11.89	101.91	113.80
1	iM	37	ILE	O-C-N	-11.89	112.81	120.42
1	iN	192	GLN	OE1-CD-NE2	-11.89	110.71	122.60
1	3U	36	VAL	CA-C-N	11.88	129.83	120.33
1	3U	36	VAL	C-N-CA	11.88	129.83	120.33
1	5r	87	HIS	CA-CB-CG	-11.87	101.93	113.80
1	cj	181	VAL	O-C-N	-11.87	110.26	121.89
1	5I	143	ARG	NE-CZ-NH2	-11.87	108.52	119.20
1	71	173	ARG	NE-CZ-NH1	11.87	133.37	121.50
1	g3	176	GLN	CA-C-O	11.87	132.68	119.15
1	4c	84	HIS	CA-C-N	11.86	132.62	119.93
1	4c	84	HIS	C-N-CA	11.86	132.62	119.93
1	cr	74	ASN	CA-CB-CG	11.86	124.46	112.60
1	eF	18	ARG	NE-CZ-NH1	11.86	133.36	121.50
1	i8	103	ASP	CA-CB-CG	-11.85	100.75	112.60
1	g5	123	PRO	CA-C-N	-11.85	114.54	122.60
1	g5	123	PRO	C-N-CA	-11.85	114.54	122.60
1	iI	113	GLU	O-C-N	11.85	134.27	122.07
1	lE	143	ARG	NE-CZ-NH1	11.84	133.34	121.50
1	3B	50	GLN	N-CA-C	11.84	124.19	111.28
1	fJ	36	VAL	CA-C-N	11.84	129.80	120.33
1	fJ	36	VAL	C-N-CA	11.84	129.80	120.33
1	b3	205	LEU	N-CA-C	11.84	124.26	111.36
1	aq	36	VAL	CA-C-N	11.83	131.79	120.43
1	aq	36	VAL	C-N-CA	11.83	131.79	120.43
1	hL	69	LEU	N-CA-C	11.83	123.72	111.07
1	9l	162	ARG	NE-CZ-NH1	11.82	133.32	121.50
1	2l	188	THR	CA-C-N	11.82	136.12	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2l	188	THR	C-N-CA	11.82	136.12	120.28
1	9h	32	PHE	CA-CB-CG	-11.82	101.98	113.80
1	kS	230	VAL	N-CA-C	-11.82	101.56	112.90
1	jQ	62	HIS	CA-CB-CG	-11.82	101.98	113.80
1	7r	45	GLU	N-CA-C	11.81	123.71	111.07
1	bs	81	ASP	CA-C-N	11.81	135.80	120.44
1	bs	81	ASP	C-N-CA	11.81	135.80	120.44
1	cQ	225	GLY	N-CA-C	11.81	125.32	112.33
1	dA	37	ILE	N-CA-CB	11.81	119.66	110.45
1	jG	125	PRO	CA-C-O	-11.80	112.58	121.31
1	2M	132	ARG	NE-CZ-NH1	11.80	133.30	121.50
1	2Z	219	GLN	OE1-CD-NE2	-11.80	110.80	122.60
1	45	222	GLY	O-C-N	-11.80	113.51	122.71
1	3o	82	ARG	NE-CZ-NH2	-11.80	108.58	119.20
1	ge	143	ARG	NE-CZ-NH1	11.79	133.29	121.50
1	2l	173	ARG	NE-CZ-NH1	11.79	133.29	121.50
1	ef	37	ILE	O-C-N	-11.79	112.88	120.42
1	fO	156	GLY	O-C-N	-11.78	109.99	121.77
1	gv	62	HIS	CA-CB-CG	-11.77	102.03	113.80
1	iW	33	SER	N-CA-C	-11.77	97.59	108.07
1	1I	25	LYS	CA-C-N	11.77	135.39	120.56
1	1I	25	LYS	C-N-CA	11.77	135.39	120.56
1	5t	4	GLN	OE1-CD-NE2	-11.77	110.83	122.60
1	ee	145	TYR	CB-CG-CD1	11.77	138.46	120.80
1	O	15	ILE	O-C-N	-11.77	110.16	122.63
1	0	154	ARG	NE-CZ-NH1	11.77	133.26	121.50
1	hH	69	LEU	N-CA-C	11.76	123.66	111.07
1	ia	162	ARG	NE-CZ-NH2	-11.76	108.61	119.20
1	8L	115	ILE	O-C-N	-11.76	110.46	121.87
1	cO	65	ALA	CA-C-N	11.76	135.73	120.44
1	cO	65	ALA	C-N-CA	11.76	135.73	120.44
1	aA	69	LEU	N-CA-C	11.76	123.65	111.07
1	9Z	144	MET	N-CA-C	11.75	123.64	111.07
1	29	166	ASP	CA-CB-CG	11.75	124.35	112.60
1	1y	156	GLY	O-C-N	-11.75	111.84	122.42
1	jf	62	HIS	CA-CB-CG	-11.74	102.06	113.80
1	98	138	LEU	N-CA-C	11.74	123.64	111.07
1	9Z	74	ASN	CA-CB-CG	11.74	124.34	112.60
1	3K	195	ASN	CA-CB-CG	11.74	124.34	112.60
1	be	74	ASN	CA-CB-CG	11.74	124.34	112.60
1	7x	204	ALA	N-CA-C	11.74	124.15	111.36
1	4u	18	ARG	NE-CZ-NH1	11.73	133.23	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	80	87	HIS	CA-CB-CG	-11.73	102.07	113.80
1	fD	172	LEU	N-CA-C	11.73	124.07	111.28
1	47	12	HIS	CA-CB-CG	11.73	125.53	113.80
1	4R	37	ILE	N-CA-CB	11.73	117.89	110.50
1	bP	36	VAL	CA-C-N	11.73	129.72	120.33
1	bP	36	VAL	C-N-CA	11.73	129.72	120.33
1	jx	167	ARG	NE-CZ-NH1	11.73	133.23	121.50
1	9I	150	ILE	N-CA-C	11.73	122.58	110.62
1	3g	32	PHE	CA-CB-CG	-11.73	102.07	113.80
1	js	5	ASN	CA-CB-CG	11.72	124.32	112.60
1	7w	97	ARG	NE-CZ-NH2	11.72	129.75	119.20
1	6h	100	ARG	NE-CZ-NH1	11.72	133.22	121.50
1	bB	154	ARG	NE-CZ-NH2	-11.72	108.65	119.20
1	ki	37	ILE	CA-C-O	-11.72	108.89	118.85
1	ik	195	ASN	CA-CB-CG	11.71	124.31	112.60
1	kO	9	GLN	OE1-CD-NE2	-11.71	110.89	122.60
1	fZ	126	VAL	N-CA-C	11.71	123.97	110.62
1	ej	185	MET	N-CA-C	11.71	124.04	111.28
1	kY	21	ASN	CA-CB-CG	11.70	124.30	112.60
1	53	27	VAL	O-C-N	-11.70	110.52	121.87
1	1H	57	ASN	CA-CB-CG	-11.69	100.91	112.60
1	8O	62	HIS	CA-CB-CG	-11.69	102.11	113.80
1	9C	167	ARG	NE-CZ-NH1	11.69	133.19	121.50
1	aY	229	ARG	NE-CZ-NH1	11.69	133.19	121.50
1	iB	163	ASP	CA-CB-CG	-11.69	100.91	112.60
1	bn	8	GLY	CA-C-O	-11.69	114.03	122.45
1	ks	70	LYS	N-CA-C	11.69	124.02	111.28
1	gn	53	ASN	CA-CB-CG	-11.69	100.91	112.60
1	2b	111	LEU	N-CA-C	11.68	124.02	111.28
1	gw	126	VAL	N-CA-C	11.68	121.63	110.42
1	8N	32	PHE	CA-CB-CG	-11.68	102.12	113.80
1	cS	204	ALA	N-CA-C	11.68	124.01	111.28
1	de	174	ALA	N-CA-C	11.68	123.56	111.07
1	k8	192	GLN	OE1-CD-NE2	-11.67	110.93	122.60
1	q	188	THR	CA-C-N	11.66	136.85	120.29
1	q	188	THR	C-N-CA	11.66	136.85	120.29
1	hS	59	VAL	CA-C-N	11.66	132.83	120.00
1	hS	59	VAL	C-N-CA	11.66	132.83	120.00
1	kq	229	ARG	NE-CZ-NH2	-11.66	108.70	119.20
1	41	201	ILE	N-CA-C	11.66	121.61	110.42
1	5Y	16	SER	CA-C-N	11.66	134.41	119.84
1	5Y	16	SER	C-N-CA	11.66	134.41	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	74	ASN	CA-CB-CG	11.65	124.25	112.60
1	fu	74	ASN	OD1-CG-ND2	-11.65	110.95	122.60
1	gF	36	VAL	CA-C-N	11.65	127.58	120.24
1	gF	36	VAL	C-N-CA	11.65	127.58	120.24
1	3b	36	VAL	CA-C-N	11.65	129.65	120.33
1	3b	36	VAL	C-N-CA	11.65	129.65	120.33
1	aJ	60	GLY	CA-C-N	11.65	131.17	120.10
1	aJ	60	GLY	C-N-CA	11.65	131.17	120.10
1	jl	125	PRO	CA-C-N	11.65	136.42	120.46
1	jl	125	PRO	C-N-CA	11.65	136.42	120.46
1	jg	166	ASP	CA-CB-CG	11.65	124.25	112.60
1	lf	112	GLN	N-CA-C	11.65	125.42	111.33
1	hS	170	LYS	N-CA-C	11.64	123.97	111.28
1	8S	37	ILE	N-CA-CB	11.64	119.53	110.45
1	gI	33	SER	CA-C-O	-11.63	109.19	120.94
1	90	188	THR	CA-C-N	11.63	135.87	120.28
1	90	188	THR	C-N-CA	11.63	135.87	120.28
1	U	168	PHE	CA-CB-CG	11.63	125.43	113.80
1	aR	136	LEU	CA-C-N	11.63	132.79	120.00
1	aR	136	LEU	C-N-CA	11.63	132.79	120.00
1	kF	98	GLU	O-C-N	-11.62	110.95	121.30
1	em	59	VAL	O-C-N	-11.62	110.31	122.75
1	l8	126	VAL	N-CA-C	11.62	121.57	110.42
1	cd	162	ARG	NE-CZ-NH2	-11.62	108.74	119.20
1	W	97	ARG	NE-CZ-NH1	11.62	133.12	121.50
1	34	120	HIS	CA-CB-CG	11.62	125.42	113.80
1	9M	62	HIS	CA-CB-CG	-11.62	102.19	113.80
1	eD	18	ARG	NE-CZ-NH2	11.61	129.65	119.20
1	jn	68	MET	CA-C-N	11.61	135.53	120.44
1	jn	68	MET	C-N-CA	11.61	135.53	120.44
1	db	36	VAL	CA-C-N	11.61	131.57	120.43
1	db	36	VAL	C-N-CA	11.61	131.57	120.43
1	1O	28	GLU	CA-C-N	11.60	135.52	120.44
1	1O	28	GLU	C-N-CA	11.60	135.52	120.44
1	di	100	ARG	NE-CZ-NH1	11.60	133.10	121.50
1	5r	192	GLN	N-CA-C	11.60	123.92	111.28
1	hX	42	ALA	N-CA-C	11.60	123.92	111.28
1	A	191	VAL	N-CA-C	11.60	122.45	110.62
1	7z	100	ARG	NE-CZ-NH2	-11.59	108.77	119.20
1	aV	26	VAL	CA-C-N	11.59	135.16	120.56
1	aV	26	VAL	C-N-CA	11.59	135.16	120.56
1	K	129	ILE	O-C-N	-11.59	110.55	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hm	100	ARG	NE-CZ-NH2	-11.58	108.78	119.20
1	1D	139	ASN	CA-CB-CG	-11.58	101.02	112.60
1	ab	77	ALA	N-CA-C	11.58	123.90	111.28
1	2F	67	GLN	OE1-CD-NE2	-11.58	111.02	122.60
1	7g	87	HIS	CA-CB-CG	-11.58	102.22	113.80
1	4v	173	ARG	NE-CZ-NH2	-11.57	108.78	119.20
1	5y	226	HIS	CA-CB-CG	11.57	125.38	113.80
1	bi	25	LYS	CA-C-N	11.57	135.15	120.56
1	bi	25	LYS	C-N-CA	11.57	135.15	120.56
1	2i	143	ARG	NE-CZ-NH2	-11.57	108.78	119.20
1	hl	37	ILE	N-CA-CB	-11.57	103.21	110.50
1	lb	37	ILE	O-C-N	-11.57	113.02	120.42
1	5b	63	GLN	N-CA-C	11.57	123.64	111.14
1	am	162	ARG	NE-CZ-NH2	-11.57	108.79	119.20
1	z	84	HIS	O-C-N	-11.57	112.02	121.27
1	fO	143	ARG	NE-CZ-NH2	11.57	129.61	119.20
1	bK	33	SER	CA-C-O	-11.56	110.65	120.71
1	2Q	20	LEU	N-CA-C	11.56	123.88	111.28
1	5T	36	VAL	N-CA-C	11.56	122.50	110.36
1	8b	172	LEU	N-CA-C	11.56	123.44	111.07
1	aT	13	GLN	CA-C-N	11.55	137.12	120.71
1	aT	13	GLN	C-N-CA	11.55	137.12	120.71
1	kn	210	THR	O-C-N	-11.55	110.00	122.94
1	h8	169	TYR	N-CA-C	11.55	123.87	111.28
1	5Q	143	ARG	CA-C-N	11.55	136.13	120.54
1	5Q	143	ARG	C-N-CA	11.55	136.13	120.54
1	z	89	GLY	CA-C-N	11.55	131.68	119.90
1	z	89	GLY	C-N-CA	11.55	131.68	119.90
1	7t	128	GLU	CA-C-N	11.54	135.13	120.70
1	7t	128	GLU	C-N-CA	11.54	135.13	120.70
1	iw	98	GLU	CA-C-O	-11.54	110.58	119.46
1	1w	81	ASP	N-CA-C	11.54	123.94	111.36
1	R	122	PRO	CA-C-N	11.54	131.67	119.90
1	R	122	PRO	C-N-CA	11.54	131.67	119.90
1	6y	98	GLU	O-C-N	-11.54	109.74	121.28
1	ez	29	GLU	N-CA-C	11.54	123.41	111.07
1	6E	124	ILE	O-C-N	-11.53	114.10	121.37
1	gn	82	ARG	NE-CZ-NH2	-11.53	108.82	119.20
1	e8	98	GLU	CA-C-O	-11.53	110.58	119.46
1	kI	212	GLU	CA-C-N	11.53	135.42	120.44
1	kI	212	GLU	C-N-CA	11.53	135.42	120.44
1	8P	36	VAL	CA-C-N	11.52	127.50	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8P	36	VAL	C-N-CA	11.52	127.50	120.24
1	bc	124	ILE	O-C-N	-11.52	110.32	120.92
1	fg	97	ARG	NE-CZ-NH1	11.52	133.02	121.50
1	iM	167	ARG	NE-CZ-NH1	11.52	133.02	121.50
1	b3	168	PHE	CA-CB-CG	11.52	125.32	113.80
1	3a	167	ARG	NE-CZ-NH2	-11.51	108.84	119.20
1	dJ	164	TYR	N-CA-C	11.51	123.83	111.28
1	7M	121	ASN	CA-CB-CG	11.51	124.11	112.60
1	hz	37	ILE	N-CA-CB	11.51	117.75	110.50
1	87	177	ALA	N-CA-C	11.51	125.20	110.24
1	2Y	97	ARG	NE-CZ-NH2	-11.51	108.84	119.20
1	ez	162	ARG	N-CA-C	11.51	123.82	111.28
1	eK	62	HIS	CA-CB-CG	11.51	125.31	113.80
1	b3	32	PHE	CA-CB-CG	-11.50	102.30	113.80
1	1w	37	ILE	O-C-N	-11.50	111.90	120.07
1	P	35	GLU	N-CA-C	11.50	126.67	112.87
1	75	152	ASP	CA-CB-CG	11.50	124.10	112.60
1	9Z	117	TRP	N-CA-C	11.50	123.89	111.36
1	fS	59	VAL	N-CA-C	11.50	122.35	110.62
1	5S	229	ARG	NE-CZ-NH2	-11.49	108.86	119.20
1	3E	167	ARG	NE-CZ-NH2	-11.49	108.86	119.20
1	2P	165	VAL	N-CA-C	11.49	121.33	110.53
1	dh	63	GLN	O-C-N	-11.49	109.94	122.12
1	hF	60	GLY	CA-C-N	11.49	133.51	120.53
1	hF	60	GLY	C-N-CA	11.49	133.51	120.53
1	3w	36	VAL	CA-C-N	11.49	131.46	120.43
1	3w	36	VAL	C-N-CA	11.49	131.46	120.43
1	e1	166	ASP	CA-CB-CG	11.48	124.08	112.60
1	cR	147	PRO	CA-C-N	11.48	137.17	120.87
1	cR	147	PRO	C-N-CA	11.48	137.17	120.87
1	ji	18	ARG	NE-CZ-NH1	11.48	132.98	121.50
1	23	33	SER	O-C-N	-11.48	114.36	121.71
1	kP	132	ARG	NE-CZ-NH1	11.48	132.98	121.50
1	fs	7	GLN	OE1-CD-NE2	-11.48	111.12	122.60
1	7c	26	VAL	N-CA-C	11.47	122.41	110.36
1	fw	132	ARG	N-CA-C	11.47	124.87	111.11
1	3H	5	ASN	CA-CB-CG	11.46	124.06	112.60
1	q	195	ASN	CA-C-N	11.46	134.17	119.84
1	q	195	ASN	C-N-CA	11.46	134.17	119.84
1	fk	92	GLU	O-C-N	-11.46	109.50	121.30
1	4T	229	ARG	NE-CZ-NH2	-11.46	108.89	119.20
1	9O	57	ASN	CA-CB-CG	-11.46	101.14	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	89	GLY	O-C-N	-11.46	112.11	122.42
1	4w	79	GLU	CA-C-N	11.45	135.63	120.28
1	4w	79	GLU	C-N-CA	11.45	135.63	120.28
1	cK	111	LEU	N-CA-C	11.45	123.32	111.07
1	cT	63	GLN	N-CA-C	11.44	123.75	111.28
1	if	139	ASN	CA-CB-CG	11.44	124.04	112.60
1	35	167	ARG	NE-CZ-NH2	-11.44	108.90	119.20
1	dd	162	ARG	NH1-CZ-NH2	-11.44	104.42	119.30
1	fw	162	ARG	NE-CZ-NH1	11.44	132.94	121.50
1	lK	156	GLY	O-C-N	-11.44	112.12	122.42
1	3r	4	GLN	OE1-CD-NE2	-11.44	111.16	122.60
1	8U	150	ILE	N-CA-C	11.44	122.29	110.62
1	hN	50	GLN	N-CA-C	11.43	123.74	111.28
1	8q	190	LEU	N-CA-C	11.43	123.30	111.07
1	fO	82	ARG	NE-CZ-NH1	11.43	132.93	121.50
1	bT	162	ARG	NE-CZ-NH2	11.43	129.48	119.20
1	2r	97	ARG	NE-CZ-NH2	-11.42	108.92	119.20
1	7s	2	ILE	N-CA-CB	11.42	123.50	110.82
1	ag	114	GLN	OE1-CD-NE2	-11.42	111.18	122.60
1	8S	186	THR	N-CA-C	11.42	123.80	111.36
1	iS	2	ILE	N-CA-CB	11.41	124.56	111.21
1	eZ	120	HIS	CA-CB-CG	11.41	125.21	113.80
1	eZ	192	GLN	N-CA-C	11.41	123.72	111.28
1	l	85	PRO	CA-C-O	-11.41	112.86	121.31
1	r	97	ARG	NE-CZ-NH2	11.41	129.47	119.20
1	58	183	ASN	CA-CB-CG	11.41	124.01	112.60
1	28	159	GLU	CA-C-O	11.40	127.76	119.32
1	4F	36	VAL	CA-C-N	11.40	129.45	120.33
1	4F	36	VAL	C-N-CA	11.40	129.45	120.33
1	dH	165	VAL	CA-C-N	11.40	135.56	120.28
1	dH	165	VAL	C-N-CA	11.40	135.56	120.28
1	2o	149	SER	O-C-N	-11.40	109.84	123.29
1	71	132	ARG	O-C-N	-11.40	110.04	122.12
1	jY	32	PHE	CA-C-N	11.39	138.03	120.60
1	jY	32	PHE	C-N-CA	11.39	138.03	120.60
1	89	37	ILE	O-C-N	-11.39	113.13	120.42
1	bn	146	SER	CA-C-O	-11.39	108.32	120.17
1	dj	191	VAL	N-CA-C	11.39	122.24	110.62
1	iK	59	VAL	CA-C-N	11.39	131.39	121.82
1	iK	59	VAL	C-N-CA	11.39	131.39	121.82
1	aZ	13	GLN	O-C-N	-11.39	108.70	123.28
1	cA	171	THR	CA-C-N	11.39	135.25	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cA	171	THR	C-N-CA	11.39	135.25	120.44
1	gH	166	ASP	CA-CB-CG	11.39	123.99	112.60
1	1m	195	ASN	OD1-CG-ND2	-11.39	111.21	122.60
1	hj	174	ALA	CA-C-O	11.38	133.43	119.31
1	ey	36	VAL	CA-C-N	11.38	127.41	120.24
1	ey	36	VAL	C-N-CA	11.38	127.41	120.24
1	kt	139	ASN	CA-CB-CG	11.38	123.98	112.60
1	8h	143	ARG	NE-CZ-NH1	11.38	132.88	121.50
1	kO	161	PHE	CA-CB-CG	-11.38	102.42	113.80
1	25	67	GLN	O-C-N	-11.38	110.06	122.12
1	2B	91	ILE	O-C-N	-11.38	113.22	121.98
1	6B	146	SER	O-C-N	-11.38	111.41	121.31
1	4J	20	LEU	N-CA-C	11.37	124.76	111.11
1	bM	226	HIS	CA-CB-CG	11.37	125.17	113.80
1	dV	226	HIS	CA-CB-CG	11.37	125.17	113.80
1	9Q	37	ILE	O-C-N	-11.37	113.15	120.42
1	io	124	ILE	CA-C-O	-11.36	110.61	119.25
1	6a	18	ARG	NE-CZ-NH2	-11.36	108.97	119.20
1	cd	162	ARG	NE-CZ-NH1	11.36	132.86	121.50
1	i	192	GLN	N-CA-C	11.36	123.66	111.28
1	ki	37	ILE	N-CA-CB	-11.35	103.35	110.50
1	ah	57	ASN	OD1-CG-ND2	-11.35	111.25	122.60
1	j2	33	SER	CA-C-O	-11.35	108.17	120.88
1	lB	166	ASP	CA-CB-CG	11.35	123.95	112.60
1	55	37	ILE	O-C-N	-11.35	113.16	120.42
1	z	154	ARG	NE-CZ-NH1	11.35	132.85	121.50
1	lR	83	LEU	N-CA-C	11.35	123.22	111.07
1	gF	217	ALA	N-CA-C	11.34	126.23	110.24
1	f9	139	ASN	CA-CB-CG	11.34	123.94	112.60
1	am	167	ARG	NE-CZ-NH1	11.34	132.84	121.50
1	bH	36	VAL	CA-C-N	11.34	131.32	120.43
1	bH	36	VAL	C-N-CA	11.34	131.32	120.43
1	Y	167	ARG	NE-CZ-NH1	11.34	132.84	121.50
1	kR	124	ILE	CA-C-O	-11.34	112.77	119.12
1	5l	174	ALA	O-C-N	-11.34	110.11	122.12
1	7O	37	ILE	O-C-N	-11.34	113.17	120.42
1	45	192	GLN	N-CA-C	11.33	124.97	111.82
1	cD	162	ARG	N-CA-C	11.33	123.63	111.28
1	p	77	ALA	N-CA-C	11.33	123.19	111.07
1	4U	37	ILE	N-CA-CB	11.33	118.11	110.52
1	c5	168	PHE	N-CA-C	11.33	123.19	111.07
1	h6	98	GLU	CA-C-O	-11.32	110.68	120.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4N	36	VAL	CA-C-N	11.32	127.37	120.24
1	4N	36	VAL	C-N-CA	11.32	127.37	120.24
1	5V	123	PRO	CA-C-N	11.32	130.74	122.59
1	5V	123	PRO	C-N-CA	11.32	130.74	122.59
1	8x	60	GLY	CA-C-N	11.32	132.78	120.44
1	8x	60	GLY	C-N-CA	11.32	132.78	120.44
1	9t	28	GLU	N-CA-C	11.32	123.70	111.36
1	W	166	ASP	CA-CB-CG	11.32	123.92	112.60
1	lJ	154	ARG	O-C-N	-11.32	111.31	123.42
1	ae	37	ILE	O-C-N	-11.32	113.17	120.42
1	bT	32	PHE	CA-CB-CG	-11.32	102.48	113.80
1	7b	128	GLU	CA-C-N	11.32	134.82	120.56
1	7b	128	GLU	C-N-CA	11.32	134.82	120.56
1	fB	14	ALA	N-CA-C	11.32	124.96	110.24
1	kj	161	PHE	CA-CB-CG	11.32	125.12	113.80
1	m	95	GLN	CA-C-N	11.32	136.78	120.71
1	m	95	GLN	C-N-CA	11.32	136.78	120.71
1	2l	84	HIS	CA-C-N	11.32	131.44	119.90
1	2l	84	HIS	C-N-CA	11.32	131.44	119.90
1	hX	23	TRP	O-C-N	-11.31	110.42	122.07
1	ee	25	LYS	N-CA-C	11.31	123.61	111.28
1	ig	195	ASN	CA-CB-CG	11.31	123.91	112.60
1	fx	37	ILE	O-C-N	-11.31	113.18	120.42
1	52	59	VAL	N-CA-C	11.31	122.23	110.36
1	L	48	THR	O-C-N	-11.31	110.25	120.99
1	dd	200	THR	O-C-N	-11.31	110.13	122.12
1	kr	147	PRO	CA-C-N	11.30	136.77	120.95
1	kr	147	PRO	C-N-CA	11.30	136.77	120.95
1	7f	166	ASP	CA-CB-CG	11.30	123.90	112.60
1	6W	36	VAL	CA-C-N	11.30	129.37	120.33
1	6W	36	VAL	C-N-CA	11.30	129.37	120.33
1	72	32	PHE	CA-CB-CG	-11.30	102.50	113.80
1	iM	167	ARG	NE-CZ-NH2	-11.30	109.03	119.20
1	9N	173	ARG	CA-C-N	11.30	139.92	122.29
1	9N	173	ARG	C-N-CA	11.30	139.92	122.29
1	be	82	ARG	NE-CZ-NH2	-11.30	109.03	119.20
1	22	37	ILE	N-CA-CB	11.30	117.62	110.50
1	10	32	PHE	N-CA-CB	11.30	127.46	110.29
1	cQ	154	ARG	NE-CZ-NH1	11.30	132.80	121.50
1	h1	53	ASN	CA-CB-CG	-11.30	101.30	112.60
1	4d	156	GLY	N-CA-C	11.30	125.56	112.00
1	1D	181	VAL	O-C-N	-11.29	110.65	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	18	ARG	NE-CZ-NH1	11.29	132.79	121.50
1	3U	162	ARG	NE-CZ-NH2	-11.29	109.04	119.20
1	7n	37	ILE	O-C-N	-11.29	113.19	120.42
1	8b	53	ASN	CA-CB-CG	-11.29	101.31	112.60
1	9o	59	VAL	N-CA-C	11.29	123.49	110.62
1	aj	112	GLN	OE1-CD-NE2	-11.29	111.31	122.60
1	d8	62	HIS	CA-CB-CG	-11.29	102.51	113.80
1	eP	24	VAL	CA-C-O	-11.29	109.21	121.17
1	dt	124	ILE	CA-C-O	11.28	125.81	119.15
1	5m	87	HIS	CA-CB-CG	11.28	125.08	113.80
1	7s	126	VAL	N-CA-C	11.28	123.48	110.62
1	7x	37	ILE	CA-C-O	-11.28	111.13	118.69
1	bE	126	VAL	O-C-N	-11.28	110.93	121.87
1	bR	67	GLN	OE1-CD-NE2	-11.28	111.32	122.60
1	3I	36	VAL	CA-C-N	11.27	129.35	120.33
1	3I	36	VAL	C-N-CA	11.27	129.35	120.33
1	3K	37	ILE	CA-C-O	-11.27	111.14	118.69
1	4C	226	HIS	CA-CB-CG	11.27	125.06	113.80
1	4M	37	ILE	N-CA-CB	11.27	117.60	110.50
1	9Z	123	PRO	CA-C-N	-11.26	114.48	122.59
1	9Z	123	PRO	C-N-CA	-11.26	114.48	122.59
1	n	201	ILE	O-C-N	-11.26	110.19	121.90
1	c4	202	LEU	N-CA-C	11.25	123.55	111.28
1	4I	139	ASN	CA-CB-CG	11.25	123.85	112.60
1	6J	78	ALA	N-CA-C	11.25	123.11	111.07
1	7q	226	HIS	CA-CB-CG	11.25	125.05	113.80
1	4n	32	PHE	CA-CB-CG	-11.25	102.55	113.80
1	1c	168	PHE	CA-CB-CG	11.25	125.05	113.80
1	ex	96	MET	N-CA-C	11.25	126.09	110.35
1	gk	57	ASN	CA-CB-CG	-11.24	101.36	112.60
1	gI	131	LYS	N-CA-C	11.24	123.54	111.28
1	6K	154	ARG	NE-CZ-NH2	11.24	129.32	119.20
1	8C	162	ARG	N-CA-C	11.24	123.10	111.07
1	9s	53	ASN	CA-CB-CG	-11.24	101.36	112.60
1	ee	34	PRO	CA-C-N	11.24	135.34	120.28
1	ee	34	PRO	C-N-CA	11.24	135.34	120.28
1	67	37	ILE	O-C-N	-11.24	113.22	120.42
1	hH	154	ARG	NE-CZ-NH2	-11.24	109.09	119.20
1	ji	84	HIS	CA-C-O	-11.24	110.81	119.46
1	1r	45	GLU	N-CA-C	11.23	126.94	112.34
1	4p	28	GLU	N-CA-C	11.23	123.52	111.28
1	3v	70	LYS	N-CA-C	11.23	123.52	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4d	5	ASN	N-CA-C	11.23	123.52	111.28
1	jC	229	ARG	NE-CZ-NH1	11.22	132.72	121.50
1	fj	166	ASP	CA-CB-CG	11.22	123.83	112.60
1	4m	224	PRO	CA-C-N	11.22	133.38	122.27
1	4m	224	PRO	C-N-CA	11.22	133.38	122.27
1	ae	36	VAL	CA-C-N	11.22	129.31	120.33
1	ae	36	VAL	C-N-CA	11.22	129.31	120.33
1	g3	195	ASN	OD1-CG-ND2	-11.22	111.38	122.60
1	5j	161	PHE	CA-C-N	11.22	136.38	120.79
1	5j	161	PHE	C-N-CA	11.22	136.38	120.79
1	g2	18	ARG	NE-CZ-NH1	11.22	132.72	121.50
1	ij	143	ARG	NE-CZ-NH2	11.21	129.29	119.20
1	1V	121	ASN	CA-C-O	-11.21	110.84	119.59
1	lA	173	ARG	NH1-CZ-NH2	-11.21	104.72	119.30
1	1w	154	ARG	NE-CZ-NH2	-11.21	109.11	119.20
1	fp	5	ASN	CA-CB-CG	-11.21	101.39	112.60
1	g9	33	SER	CA-C-O	-11.21	110.36	120.56
1	77	190	LEU	N-CA-C	11.21	123.50	111.28
1	bD	187	GLU	CA-C-N	11.21	135.30	120.28
1	bD	187	GLU	C-N-CA	11.21	135.30	120.28
1	2v	84	HIS	CA-C-N	11.21	131.32	119.89
1	2v	84	HIS	C-N-CA	11.21	131.32	119.89
1	17	21	ASN	CA-CB-CG	11.21	123.81	112.60
1	9H	36	VAL	O-C-N	-11.20	110.91	121.89
1	7	173	ARG	NE-CZ-NH1	11.20	132.70	121.50
1	cb	36	VAL	N-CA-C	11.20	121.17	110.42
1	R	189	LEU	N-CA-C	11.20	123.05	111.07
1	jG	4	GLN	CA-C-O	11.19	133.50	121.19
1	jc	36	VAL	CA-C-N	11.19	127.29	120.24
1	jc	36	VAL	C-N-CA	11.19	127.29	120.24
1	6j	192	GLN	N-CA-C	11.19	124.87	111.33
1	1a	146	SER	N-CA-C	11.19	122.47	109.60
1	3V	111	LEU	N-CA-C	11.19	123.04	111.07
1	86	147	PRO	N-CA-C	-11.19	100.36	114.68
1	91	190	LEU	CA-C-N	11.19	134.66	120.56
1	91	190	LEU	C-N-CA	11.19	134.66	120.56
1	2C	63	GLN	OE1-CD-NE2	-11.19	111.41	122.60
1	31	106	GLY	CA-C-N	11.19	135.27	120.28
1	31	106	GLY	C-N-CA	11.19	135.27	120.28
1	6x	87	HIS	CA-CB-CG	11.19	124.99	113.80
1	7e	37	ILE	O-C-N	-11.19	113.26	120.42
1	kI	179	GLN	N-CA-C	11.18	123.47	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	195	ASN	CB-CA-C	11.18	129.52	109.61
1	4a	87	HIS	CA-CB-CG	11.18	124.98	113.80
1	cv	67	GLN	CA-C-O	-11.18	109.19	120.70
1	m	181	VAL	N-CA-C	11.18	122.01	110.72
1	5Y	97	ARG	NE-CZ-NH2	11.18	129.26	119.20
1	B	167	ARG	NE-CZ-NH2	11.18	129.26	119.20
1	gN	229	ARG	N-CA-C	11.17	124.76	110.24
1	a2	33	SER	CA-C-N	11.17	130.96	119.56
1	a2	33	SER	C-N-CA	11.17	130.96	119.56
1	df	23	TRP	N-CA-C	11.17	123.46	111.28
1	4k	36	VAL	N-CA-C	11.17	122.01	110.62
1	95	154	ARG	NE-CZ-NH2	-11.17	109.15	119.20
1	7j	164	TYR	N-CA-C	11.17	123.45	111.28
1	1s	37	ILE	O-C-N	-11.17	113.27	120.42
1	fD	36	VAL	CA-C-N	11.17	129.26	120.33
1	fD	36	VAL	C-N-CA	11.17	129.26	120.33
1	ls	100	ARG	CA-C-N	11.16	132.61	119.99
1	ls	100	ARG	C-N-CA	11.16	132.61	119.99
1	6d	173	ARG	N-CA-C	11.16	124.84	111.33
1	7d	116	GLY	CA-C-N	11.16	135.67	120.38
1	7d	116	GLY	C-N-CA	11.16	135.67	120.38
1	99	162	ARG	N-CA-C	11.16	124.84	111.33
1	bS	203	LYS	N-CA-C	11.16	123.45	111.28
1	dO	9	GLN	OE1-CD-NE2	-11.16	111.44	122.60
1	ix	100	ARG	NE-CZ-NH2	-11.16	109.16	119.20
1	51	92	GLU	O-C-N	-11.16	114.57	121.71
1	eS	21	ASN	CA-CB-CG	11.16	123.76	112.60
1	fQ	151	LEU	N-CA-C	11.16	123.44	111.28
1	5n	229	ARG	NE-CZ-NH1	11.16	132.66	121.50
1	3p	164	TYR	CA-C-N	11.16	134.99	120.60
1	3p	164	TYR	C-N-CA	11.16	134.99	120.60
1	h5	178	SER	CA-C-N	11.15	137.55	120.82
1	h5	178	SER	C-N-CA	11.15	137.55	120.82
1	hR	125	PRO	CA-C-N	11.15	134.99	120.60
1	hR	125	PRO	C-N-CA	11.15	134.99	120.60
1	kf	184	TRP	CA-C-N	11.15	134.94	120.44
1	kf	184	TRP	C-N-CA	11.15	134.94	120.44
1	8a	148	THR	CA-C-N	11.15	136.55	120.71
1	8a	148	THR	C-N-CA	11.15	136.55	120.71
1	bm	12	HIS	CE1-NE2-CD2	-11.15	97.85	109.00
1	1k	26	VAL	N-CA-C	11.15	123.33	110.62
1	iO	18	ARG	NE-CZ-NH2	-11.15	109.16	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j0	141	ILE	N-CA-C	11.15	121.12	110.30
1	6p	224	PRO	CA-C-N	11.15	132.26	120.00
1	6p	224	PRO	C-N-CA	11.15	132.26	120.00
1	dS	41	SER	CA-C-N	11.15	135.22	120.28
1	dS	41	SER	C-N-CA	11.15	135.22	120.28
1	1V	211	LEU	N-CA-C	11.15	123.00	111.07
1	fB	154	ARG	NE-CZ-NH1	-11.15	110.35	121.50
1	ah	100	ARG	NE-CZ-NH2	-11.14	109.17	119.20
1	gf	37	ILE	CA-C-O	-11.14	111.22	118.69
1	79	45	GLU	N-CA-C	11.14	126.69	110.42
1	E	146	SER	O-C-N	-11.14	111.62	121.31
1	3V	121	ASN	CA-CB-CG	11.14	123.74	112.60
1	b6	172	LEU	O-C-N	-11.14	110.60	122.07
1	bL	63	GLN	N-CA-C	11.13	123.42	111.28
1	fb	7	GLN	OE1-CD-NE2	-11.13	111.47	122.60
1	f5	162	ARG	NE-CZ-NH1	11.13	132.63	121.50
1	1Y	84	HIS	CA-C-N	11.13	131.25	119.90
1	1Y	84	HIS	C-N-CA	11.13	131.25	119.90
1	iR	173	ARG	NE-CZ-NH1	11.12	132.62	121.50
1	jK	36	VAL	CA-C-N	11.12	129.23	120.33
1	jK	36	VAL	C-N-CA	11.12	129.23	120.33
1	gl	23	TRP	CA-C-N	11.12	134.57	120.56
1	gl	23	TRP	C-N-CA	11.12	134.57	120.56
1	kX	136	LEU	CA-C-N	11.12	132.23	120.00
1	kX	136	LEU	C-N-CA	11.12	132.23	120.00
1	22	83	LEU	N-CA-C	11.12	122.96	111.07
1	lH	37	ILE	N-CA-CB	11.12	117.97	110.52
1	3d	67	GLN	N-CA-C	11.12	124.78	111.33
1	r	195	ASN	CA-CB-CG	11.12	123.72	112.60
1	7I	139	ASN	CA-CB-CG	11.11	123.71	112.60
1	iC	134	ILE	O-C-N	-11.11	110.83	121.94
1	3c	36	VAL	CA-C-N	11.11	127.24	120.24
1	3c	36	VAL	C-N-CA	11.11	127.24	120.24
1	2y	89	GLY	CA-C-N	11.11	131.23	119.90
1	2y	89	GLY	C-N-CA	11.11	131.23	119.90
1	ah	139	ASN	CA-CB-CG	-11.11	101.49	112.60
1	ii	83	LEU	N-CA-C	11.11	122.95	111.07
1	8b	62	HIS	CA-CB-CG	-11.11	102.69	113.80
1	bP	62	HIS	N-CA-C	11.11	126.72	111.39
1	d8	4	GLN	OE1-CD-NE2	-11.11	111.49	122.60
1	hM	229	ARG	NE-CZ-NH2	-11.10	109.21	119.20
1	7f	195	ASN	CA-CB-CG	11.10	123.70	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8V	226	HIS	CA-CB-CG	11.10	124.90	113.80
1	dL	21	ASN	CA-CB-CG	11.10	123.70	112.60
1	ca	19	THR	CA-C-O	11.10	132.18	120.42
1	iV	156	GLY	O-C-N	-11.09	110.68	121.77
1	8L	124	ILE	O-C-N	-11.09	110.71	120.92
1	3K	221	VAL	CA-C-N	11.09	133.06	120.53
1	3K	221	VAL	C-N-CA	11.09	133.06	120.53
1	fB	111	LEU	CA-C-N	11.09	135.51	120.54
1	fB	111	LEU	C-N-CA	11.09	135.51	120.54
1	k1	18	ARG	NE-CZ-NH2	11.08	129.17	119.20
1	2f	192	GLN	O-C-N	-11.08	110.37	122.12
1	ii	158	LYS	CA-C-O	11.08	132.25	119.18
1	ld	195	ASN	CA-CB-CG	11.08	123.68	112.60
1	18	74	ASN	CA-CB-CG	-11.07	101.53	112.60
1	hn	205	LEU	N-CA-C	11.07	122.92	111.07
1	k1	163	ASP	CA-CB-CG	11.07	123.67	112.60
1	c7	36	VAL	CA-C-N	11.07	129.19	120.33
1	c7	36	VAL	C-N-CA	11.07	129.19	120.33
1	5D	163	ASP	CA-CB-CG	11.07	123.67	112.60
1	fM	136	LEU	CA-C-N	11.07	132.23	119.94
1	fM	136	LEU	C-N-CA	11.07	132.23	119.94
1	jM	37	ILE	O-C-N	-11.07	113.34	120.42
1	kP	53	ASN	CA-CB-CG	-11.07	101.53	112.60
1	kV	12	HIS	CE1-NE2-CD2	-11.07	97.93	109.00
1	5t	143	ARG	NE-CZ-NH1	11.07	132.57	121.50
1	6P	78	ALA	N-CA-C	11.06	122.91	111.07
1	8M	92	GLU	N-CA-C	11.06	122.33	109.60
1	eK	144	MET	N-CA-C	11.06	122.91	111.07
1	j4	121	ASN	CA-CB-CG	11.06	123.66	112.60
1	9p	195	ASN	CA-CB-CG	11.06	123.66	112.60
1	ax	191	VAL	CA-C-O	11.06	129.46	118.96
1	iZ	51	ASP	CA-CB-CG	-11.05	101.55	112.60
1	jr	173	ARG	NE-CZ-NH2	-11.06	109.25	119.20
1	jJ	97	ARG	NE-CZ-NH1	11.06	132.56	121.50
1	kO	63	GLN	N-CA-C	11.05	123.33	111.28
1	bD	173	ARG	N-CA-C	11.05	124.70	111.33
1	hk	15	ILE	O-C-N	-11.05	110.92	122.63
1	b6	76	GLU	N-CA-C	11.05	124.42	111.71
1	cC	199	LYS	N-CA-C	11.05	123.32	111.28
1	b2	37	ILE	N-CA-CB	-11.05	103.54	110.50
1	ep	209	ALA	N-CA-C	11.05	125.38	110.35
1	l2	87	HIS	N-CA-C	11.04	125.37	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	29	156	GLY	O-C-N	-11.05	110.72	121.77
1	9D	175	GLU	CA-C-O	11.04	133.30	120.49
1	1U	144	MET	N-CA-C	11.04	122.89	111.07
1	kr	100	ARG	NE-CZ-NH1	11.04	132.54	121.50
1	2g	193	ASN	CA-CB-CG	-11.04	101.56	112.60
1	2s	100	ARG	NE-CZ-NH1	11.04	132.54	121.50
1	l	146	SER	N-CA-C	11.04	122.30	109.60
1	hj	58	THR	N-CA-C	11.04	123.31	111.28
1	j3	36	VAL	CA-C-N	11.04	129.16	120.33
1	j3	36	VAL	C-N-CA	11.04	129.16	120.33
1	7C	124	ILE	CA-C-O	-11.04	112.94	119.12
1	bp	165	VAL	O-C-N	-11.04	111.17	121.87
1	fR	120	HIS	CE1-NE2-CD2	-11.04	97.96	109.00
1	e0	102	SER	CA-C-N	11.03	135.07	120.28
1	e0	102	SER	C-N-CA	11.03	135.07	120.28
1	8k	21	ASN	N-CA-C	11.03	124.35	111.11
1	73	173	ARG	NE-CZ-NH2	11.03	129.13	119.20
1	aR	83	LEU	N-CA-C	11.03	123.30	111.28
1	2H	198	CYS	N-CA-C	11.03	123.30	111.28
1	4C	92	GLU	CA-C-O	-11.03	110.97	119.46
1	7N	167	ARG	NE-CZ-NH1	11.03	132.53	121.50
1	cD	229	ARG	NE-CZ-NH2	11.03	129.12	119.20
1	f6	121	ASN	CB-CA-C	11.03	122.41	110.17
1	7V	63	GLN	OE1-CD-NE2	-11.02	111.58	122.60
1	g9	139	ASN	OD1-CG-ND2	-11.02	111.58	122.60
1	h3	21	ASN	CA-CB-CG	11.01	123.61	112.60
1	a6	37	ILE	N-CA-CB	11.01	117.44	110.50
1	ee	141	ILE	N-CA-C	11.01	121.84	110.72
1	7O	53	ASN	CA-CB-CG	-11.01	101.59	112.60
1	ld	212	GLU	CA-C-N	11.01	134.75	120.44
1	ld	212	GLU	C-N-CA	11.01	134.75	120.44
1	7K	40	PHE	CA-C-N	11.01	135.18	120.65
1	7K	40	PHE	C-N-CA	11.01	135.18	120.65
1	kV	56	LEU	N-CA-C	11.00	123.27	111.28
1	6G	124	ILE	CA-C-O	-11.00	112.66	119.15
1	b5	42	ALA	CA-C-N	11.00	134.74	120.44
1	b5	42	ALA	C-N-CA	11.00	134.74	120.44
1	go	183	ASN	OD1-CG-ND2	-11.00	111.60	122.60
1	aW	37	ILE	O-C-N	-11.00	113.38	120.42
1	hz	122	PRO	CA-C-N	11.00	131.11	119.78
1	hz	122	PRO	C-N-CA	11.00	131.11	119.78
1	4o	100	ARG	NE-CZ-NH2	-11.00	109.30	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	224	PRO	CA-C-N	11.00	130.55	120.10
1	f7	224	PRO	C-N-CA	11.00	130.55	120.10
1	7W	57	ASN	CA-CB-CG	-11.00	101.60	112.60
1	eV	206	GLY	CA-C-N	11.00	131.31	119.87
1	eV	206	GLY	C-N-CA	11.00	131.31	119.87
1	j0	82	ARG	NE-CZ-NH2	-10.99	109.30	119.20
1	hA	230	VAL	N-CA-C	10.99	124.16	109.21
1	2p	100	ARG	CA-C-N	10.99	132.41	119.99
1	2p	100	ARG	C-N-CA	10.99	132.41	119.99
1	5I	124	ILE	O-C-N	-10.99	112.88	121.46
1	hT	206	GLY	CA-C-N	10.99	131.11	119.90
1	hT	206	GLY	C-N-CA	10.99	131.11	119.90
1	19	23	TRP	N-CA-C	10.99	123.26	111.28
1	5g	120	HIS	CA-CB-CG	10.99	124.79	113.80
1	f3	48	THR	CA-C-O	-10.99	109.76	120.64
1	i0	33	SER	N-CA-C	-10.99	98.33	108.22
1	8B	200	THR	N-CA-C	10.99	123.34	111.36
1	90	98	GLU	O-C-N	-10.99	111.75	121.31
1	k7	124	ILE	O-C-N	-10.98	112.02	121.57
1	cy	164	TYR	N-CA-C	10.98	123.25	111.28
1	I	101	GLY	CA-C-O	10.98	132.30	120.66
1	M	75	GLU	N-CA-C	10.98	122.82	111.07
1	kF	167	ARG	NE-CZ-NH1	10.98	132.48	121.50
1	4u	167	ARG	NE-CZ-NH1	10.98	132.48	121.50
1	aB	32	PHE	CA-CB-CG	-10.98	102.82	113.80
1	do	5	ASN	CA-C-N	10.98	136.09	120.28
1	do	5	ASN	C-N-CA	10.98	136.09	120.28
1	eP	94	GLY	CA-C-O	10.97	131.06	119.10
1	a	82	ARG	NE-CZ-NH2	-10.97	109.32	119.20
1	go	139	ASN	CA-CB-CG	-10.97	101.63	112.60
1	3u	124	ILE	N-CA-CB	10.97	124.25	111.31
1	7l	79	GLU	N-CA-C	10.97	123.24	111.28
1	cS	162	ARG	NE-CZ-NH1	10.97	132.47	121.50
1	73	229	ARG	NE-CZ-NH1	10.97	132.47	121.50
1	1u	167	ARG	NE-CZ-NH1	10.97	132.47	121.50
1	7J	16	SER	CA-C-O	-10.97	110.98	120.19
1	eA	182	LYS	N-CA-C	10.97	122.81	111.07
1	3R	143	ARG	O-C-N	-10.97	109.39	122.22
1	5Y	118	MET	N-CA-C	10.97	124.54	111.82
1	7V	37	ILE	N-CA-CB	10.96	119.00	110.45
1	ak	84	HIS	CA-CB-CG	-10.96	102.84	113.80
1	eU	82	ARG	NE-CZ-NH1	10.96	132.46	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	156	GLY	CA-C-N	10.96	130.81	119.19
1	7Q	156	GLY	C-N-CA	10.96	130.81	119.19
1	cO	165	VAL	O-C-N	-10.96	111.17	121.91
1	de	230	VAL	N-CA-C	-10.96	102.40	113.47
1	eP	120	HIS	CA-CB-CG	10.96	124.76	113.80
1	fp	159	GLU	CA-C-O	-10.96	108.84	119.80
1	l3	31	ALA	N-CA-C	10.96	123.22	111.28
1	88	162	ARG	NE-CZ-NH2	-10.96	109.34	119.20
1	9D	21	ASN	CA-CB-CG	10.95	123.55	112.60
1	l8	167	ARG	NE-CZ-NH2	10.95	129.05	119.20
1	ai	121	ASN	CA-C-O	-10.95	111.05	119.59
1	4V	167	ARG	CA-C-N	10.95	135.10	120.65
1	4V	167	ARG	C-N-CA	10.95	135.10	120.65
1	7e	209	ALA	N-CA-C	10.95	126.72	110.30
1	ci	230	VAL	CA-C-O	10.95	128.90	119.38
1	a2	143	ARG	NE-CZ-NH2	10.94	129.05	119.20
1	bR	152	ASP	CA-CB-CG	-10.94	101.66	112.60
1	hc	159	GLU	CB-CA-C	-10.94	99.34	110.17
1	3W	74	ASN	CA-C-N	10.94	134.66	120.44
1	3W	74	ASN	C-N-CA	10.94	134.66	120.44
1	9O	125	PRO	N-CA-CB	-10.94	95.48	102.81
1	h6	56	LEU	N-CA-C	10.94	124.28	111.71
1	hd	98	GLU	CA-C-O	-10.94	110.76	120.60
1	jP	84	HIS	O-C-N	-10.94	109.24	120.83
1	ka	183	ASN	CA-C-O	10.94	132.30	120.82
1	l4	126	VAL	N-CA-C	10.93	120.92	110.42
1	5y	124	ILE	CA-C-O	10.93	125.60	119.15
1	af	162	ARG	NE-CZ-NH1	10.93	132.43	121.50
1	cZ	86	VAL	N-CA-C	10.93	124.34	109.80
1	1X	192	GLN	N-CA-C	10.93	123.19	111.28
1	eL	31	ALA	N-CA-C	10.93	123.19	111.28
1	4A	82	ARG	NE-CZ-NH2	-10.93	109.36	119.20
1	8p	89	GLY	CA-C-N	10.93	131.04	119.89
1	8p	89	GLY	C-N-CA	10.93	131.04	119.89
1	g	36	VAL	CA-C-N	10.93	130.92	120.43
1	g	36	VAL	C-N-CA	10.93	130.92	120.43
1	u	143	ARG	NE-CZ-NH1	10.93	132.43	121.50
1	V	124	ILE	O-C-N	-10.93	114.48	121.37
1	gb	126	VAL	N-CA-C	10.92	121.76	110.62
1	2a	179	GLN	N-CA-C	10.92	123.19	111.28
1	3v	83	LEU	N-CA-C	10.92	122.75	111.07
1	9F	189	LEU	N-CA-C	10.92	123.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3B	166	ASP	CA-CB-CG	10.91	123.52	112.60
1	70	5	ASN	CA-CB-CG	10.91	123.51	112.60
1	hK	143	ARG	NE-CZ-NH1	10.91	132.41	121.50
1	dc	114	GLN	N-CA-C	10.91	123.17	111.28
1	hB	5	ASN	CA-CB-CG	10.90	123.50	112.60
1	lI	82	ARG	NE-CZ-NH1	10.90	132.40	121.50
1	7n	214	MET	N-CA-C	10.90	123.17	111.28
1	k2	54	THR	N-CA-C	10.90	122.73	111.07
1	7C	139	ASN	CA-CB-CG	10.90	123.50	112.60
1	9v	132	ARG	NE-CZ-NH2	-10.90	109.39	119.20
1	a2	136	LEU	N-CA-C	10.90	124.52	111.33
1	ed	111	LEU	O-C-N	-10.90	109.47	122.22
1	69	23	TRP	N-CA-C	10.90	123.16	111.28
1	em	36	VAL	CA-C-N	10.90	127.11	120.24
1	em	36	VAL	C-N-CA	10.90	127.11	120.24
1	fC	15	ILE	N-CA-C	10.90	124.03	109.21
1	gb	37	ILE	O-C-N	-10.89	113.45	120.42
1	gh	82	ARG	NE-CZ-NH1	10.89	132.39	121.50
1	4e	51	ASP	CA-CB-CG	-10.89	101.71	112.60
1	bo	53	ASN	CA-CB-CG	10.89	123.50	112.60
1	c6	56	LEU	N-CA-C	10.89	123.15	111.28
1	C	53	ASN	OD1-CG-ND2	10.89	133.49	122.60
1	jo	195	ASN	OD1-CG-ND2	10.89	133.49	122.60
1	ki	184	TRP	O-C-N	-10.89	110.58	122.12
1	kd	229	ARG	NE-CZ-NH1	10.89	132.39	121.50
1	ky	215	MET	N-CA-C	10.89	123.15	111.28
1	eE	155	GLN	OE1-CD-NE2	-10.89	111.71	122.60
1	eN	79	GLU	N-CA-C	10.89	123.15	111.28
1	7z	22	ALA	N-CA-C	10.89	124.18	111.11
1	fN	37	ILE	O-C-N	-10.89	113.45	120.42
1	9X	100	ARG	CA-C-N	10.88	131.97	120.00
1	9X	100	ARG	C-N-CA	10.88	131.97	120.00
1	28	126	VAL	N-CA-C	10.88	123.03	110.62
1	4K	36	VAL	CA-C-N	10.88	127.09	120.24
1	4K	36	VAL	C-N-CA	10.88	127.09	120.24
1	aN	125	PRO	CA-C-N	10.88	135.37	120.46
1	aN	125	PRO	C-N-CA	10.88	135.37	120.46
1	1y	75	GLU	N-CA-C	10.88	123.14	111.28
1	4C	167	ARG	CA-C-N	10.88	134.58	120.44
1	4C	167	ARG	C-N-CA	10.88	134.58	120.44
1	7Y	87	HIS	N-CA-C	10.88	126.31	110.10
1	1n	151	LEU	N-CA-C	10.87	123.13	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fB	69	LEU	CA-C-N	10.87	135.21	120.54
1	fB	69	LEU	C-N-CA	10.87	135.21	120.54
1	4I	171	THR	O-C-N	-10.87	110.60	122.12
1	6E	124	ILE	N-CA-C	-10.87	96.79	107.55
1	1f	64	ALA	CA-C-N	10.87	134.56	120.44
1	1f	64	ALA	C-N-CA	10.87	134.56	120.44
1	c8	15	ILE	N-CA-C	10.86	125.04	109.51
1	2h	32	PHE	CA-CB-CG	-10.86	102.94	113.80
1	hc	63	GLN	N-CA-C	10.86	123.11	111.28
1	9Z	166	ASP	CA-CB-CG	10.86	123.46	112.60
1	el	7	GLN	OE1-CD-NE2	-10.86	111.74	122.60
1	7u	49	PRO	CA-C-N	10.85	135.19	120.54
1	7u	49	PRO	C-N-CA	10.85	135.19	120.54
1	7W	33	SER	O-C-N	-10.85	113.08	121.55
1	9a	56	LEU	N-CA-C	10.85	123.11	111.28
1	n	84	HIS	CB-CA-C	-10.85	103.49	111.20
1	bg	121	ASN	CA-CB-CG	-10.85	101.75	112.60
1	hh	126	VAL	CA-C-N	10.85	131.93	120.00
1	hh	126	VAL	C-N-CA	10.85	131.93	120.00
1	hm	100	ARG	NE-CZ-NH1	10.85	132.35	121.50
1	7T	11	VAL	N-CA-CB	-10.85	99.97	112.34
1	b1	7	GLN	OE1-CD-NE2	-10.85	111.75	122.60
1	cj	229	ARG	N-CA-C	10.85	124.34	110.24
1	4E	64	ALA	CA-C-N	10.85	134.97	120.65
1	4E	64	ALA	C-N-CA	10.85	134.97	120.65
1	em	189	LEU	N-CA-C	10.85	122.68	111.07
1	fQ	191	VAL	N-CA-C	10.85	121.68	110.62
1	g3	126	VAL	N-CA-C	10.85	122.99	110.62
1	jq	163	ASP	CA-CB-CG	-10.84	101.76	112.60
1	b3	81	ASP	O-C-N	-10.84	108.93	122.27
1	ad	37	ILE	N-CA-CB	10.84	117.33	110.50
1	cr	139	ASN	CA-CB-CG	10.84	123.44	112.60
1	iB	63	GLN	N-CA-C	10.84	123.09	111.28
1	7y	140	LYS	N-CA-C	10.84	123.09	111.28
1	Z	35	GLU	CA-C-N	10.84	134.58	120.60
1	Z	35	GLU	C-N-CA	10.84	134.58	120.60
1	4a	118	MET	N-CA-C	10.83	123.09	111.28
1	51	163	ASP	CA-CB-CG	-10.83	101.77	112.60
1	ch	206	GLY	O-C-N	-10.83	110.94	121.77
1	ch	139	ASN	CA-CB-CG	10.83	123.43	112.60
1	ls	63	GLN	OE1-CD-NE2	-10.83	111.77	122.60
1	88	59	VAL	O-C-N	-10.83	111.37	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	120	HIS	CB-CG-CD2	-10.82	117.13	131.20
1	iP	117	TRP	N-CA-C	10.82	123.08	111.28
1	jl	21	ASN	CA-CB-CG	10.82	123.42	112.60
1	lB	156	GLY	CA-C-N	10.82	130.50	119.24
1	lB	156	GLY	C-N-CA	10.82	130.50	119.24
1	5K	200	THR	O-C-N	-10.82	110.65	122.12
1	a3	57	ASN	CA-CB-CG	-10.82	101.78	112.60
1	ez	32	PHE	CA-CB-CG	-10.82	102.98	113.80
1	eZ	172	LEU	CA-C-N	10.82	134.51	120.44
1	eZ	172	LEU	C-N-CA	10.82	134.51	120.44
1	O	230	VAL	O-C-N	10.82	132.77	122.06
1	iA	36	VAL	CA-C-N	10.82	127.06	120.24
1	iA	36	VAL	C-N-CA	10.82	127.06	120.24
1	4G	85	PRO	CA-C-O	-10.82	109.01	121.56
1	kk	143	ARG	NE-CZ-NH1	10.82	132.32	121.50
1	10	205	LEU	N-CA-C	10.82	123.15	111.36
1	hc	199	LYS	N-CA-C	10.81	124.09	111.11
1	kw	124	ILE	O-C-N	-10.81	114.56	121.37
1	2M	132	ARG	NE-CZ-NH2	-10.81	109.47	119.20
1	dc	16	SER	CA-C-N	10.81	130.65	119.19
1	dc	16	SER	C-N-CA	10.81	130.65	119.19
1	fv	179	GLN	O-C-N	-10.81	109.57	122.22
1	gs	173	ARG	NE-CZ-NH2	-10.81	109.47	119.20
1	ab	37	ILE	N-CA-CB	10.81	117.31	110.50
1	ct	36	VAL	CA-C-N	10.81	128.98	120.33
1	ct	36	VAL	C-N-CA	10.81	128.98	120.33
1	ga	37	ILE	O-C-N	-10.81	113.50	120.42
1	ie	162	ARG	N-CA-C	10.81	124.14	111.71
1	lB	167	ARG	NE-CZ-NH1	10.81	132.31	121.50
1	bH	62	HIS	CA-CB-CG	-10.81	102.99	113.80
1	f5	82	ARG	NE-CZ-NH1	10.81	132.31	121.50
1	i4	53	ASN	CA-CB-CG	-10.81	101.79	112.60
1	i8	162	ARG	NE-CZ-NH2	-10.80	109.48	119.20
1	g	126	VAL	N-CA-C	10.80	121.64	110.62
1	lA	114	GLN	N-CA-C	10.80	124.40	111.33
1	26	63	GLN	N-CA-C	10.80	123.05	111.28
1	3Q	132	ARG	NE-CZ-NH1	10.80	132.30	121.50
1	8l	195	ASN	O-C-N	-10.80	111.92	121.31
1	11	27	VAL	N-CA-C	10.80	121.63	110.62
1	bm	206	GLY	O-C-N	-10.80	110.97	121.77
1	4E	37	ILE	O-C-N	-10.80	113.51	120.42
1	fS	5	ASN	CA-C-N	10.79	137.50	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	5	ASN	C-N-CA	10.79	137.50	122.07
1	8H	203	LYS	CA-C-N	10.79	134.74	120.28
1	8H	203	LYS	C-N-CA	10.79	134.74	120.28
1	b2	79	GLU	N-CA-C	10.79	123.04	111.28
1	4q	132	ARG	NE-CZ-NH1	10.79	132.29	121.50
1	9p	97	ARG	NE-CZ-NH1	10.79	132.29	121.50
1	ag	211	LEU	CA-C-O	10.79	131.99	120.55
1	gw	129	ILE	N-CA-C	10.79	121.62	110.62
1	bP	194	ALA	N-CA-C	10.79	124.26	110.24
1	bT	76	GLU	CA-C-N	10.79	134.46	120.44
1	bT	76	GLU	C-N-CA	10.79	134.46	120.44
1	bZ	82	ARG	NE-CZ-NH2	-10.78	109.50	119.20
1	g2	5	ASN	N-CA-C	10.78	122.61	111.07
1	2L	100	ARG	NE-CZ-NH2	10.78	128.90	119.20
1	9N	124	ILE	O-C-N	-10.78	112.19	121.57
1	a3	159	GLU	CA-C-O	-10.78	111.13	120.19
1	9U	101	GLY	CA-C-N	10.78	135.59	120.29
1	9U	101	GLY	C-N-CA	10.78	135.59	120.29
1	hp	33	SER	N-CA-C	10.77	121.99	109.60
1	kT	51	ASP	CA-C-N	10.77	134.45	120.44
1	kT	51	ASP	C-N-CA	10.77	134.45	120.44
1	59	187	GLU	N-CA-C	10.77	122.60	111.07
1	7t	208	ALA	N-CA-C	10.77	126.00	112.86
1	8K	21	ASN	OD1-CG-ND2	-10.77	111.83	122.60
1	ix	23	TRP	N-CA-C	10.77	122.59	111.07
1	kV	26	VAL	N-CA-C	-10.77	100.37	110.82
1	p	163	ASP	CA-CB-CG	10.77	123.37	112.60
1	M	167	ARG	NE-CZ-NH2	-10.77	109.50	119.20
1	hN	115	ILE	CA-C-N	10.77	132.16	119.99
1	hN	115	ILE	C-N-CA	10.77	132.16	119.99
1	ke	102	SER	N-CA-C	10.77	124.31	111.82
1	lk	223	GLY	CA-C-N	10.77	131.45	119.93
1	lk	223	GLY	C-N-CA	10.77	131.45	119.93
1	4w	12	HIS	CA-CB-CG	-10.77	103.03	113.80
1	c6	59	VAL	N-CA-C	10.77	120.76	110.42
1	jz	143	ARG	N-CA-C	10.77	123.09	111.36
1	7M	10	MET	N-CA-C	10.76	124.23	110.24
1	gI	229	ARG	NE-CZ-NH1	10.76	132.26	121.50
1	hA	4	GLN	OE1-CD-NE2	-10.76	111.84	122.60
1	ef	173	ARG	NE-CZ-NH1	10.76	132.26	121.50
1	eT	70	LYS	N-CA-C	10.76	124.35	111.33
1	jc	195	ASN	CA-CB-CG	10.76	123.36	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kO	48	THR	CA-C-O	-10.76	109.23	120.96
1	4Y	84	HIS	CA-CB-CG	-10.76	103.04	113.80
1	7O	143	ARG	NE-CZ-NH2	10.76	128.88	119.20
1	5U	53	ASN	OD1-CG-ND2	-10.76	111.84	122.60
1	8c	28	GLU	CA-C-O	10.76	131.82	120.42
1	C	230	VAL	N-CA-C	-10.76	102.31	111.56
1	l2	74	ASN	CA-CB-CG	-10.75	101.85	112.60
1	7K	74	ASN	CA-CB-CG	-10.75	101.85	112.60
1	6P	125	PRO	N-CA-CB	-10.75	95.69	102.79
1	eF	124	ILE	O-C-N	-10.75	114.60	121.37
1	iL	45	GLU	N-CA-C	10.75	124.33	111.33
1	1k	10	MET	O-C-N	-10.75	110.52	122.23
1	fy	121	ASN	CA-CB-CG	10.75	123.35	112.60
1	7S	163	ASP	CA-CB-CG	10.74	123.34	112.60
1	4d	18	ARG	NE-CZ-NH1	10.74	132.24	121.50
1	5z	51	ASP	CA-C-N	10.74	135.10	120.38
1	5z	51	ASP	C-N-CA	10.74	135.10	120.38
1	5G	197	ASP	CA-CB-CG	10.74	123.34	112.60
1	7q	37	ILE	CB-CA-C	-10.74	102.96	114.35
1	6t	5	ASN	N-CA-C	-10.74	100.72	114.04
1	1c	221	VAL	N-CA-C	10.74	125.10	109.63
1	de	224	PRO	CA-C-N	10.74	134.49	122.67
1	de	224	PRO	C-N-CA	10.74	134.49	122.67
1	8X	132	ARG	NE-CZ-NH2	10.74	128.87	119.20
1	2i	36	VAL	CA-C-N	10.74	128.92	120.33
1	2i	36	VAL	C-N-CA	10.74	128.92	120.33
1	5m	127	GLY	O-C-N	-10.74	110.86	122.24
1	ij	124	ILE	O-C-N	-10.74	114.61	121.37
1	dy	143	ARG	NE-CZ-NH1	10.74	132.24	121.50
1	la	163	ASP	CA-C-N	10.74	135.04	120.44
1	la	163	ASP	C-N-CA	10.74	135.04	120.44
1	7G	162	ARG	NE-CZ-NH1	10.73	132.24	121.50
1	b9	60	GLY	CA-C-N	10.73	132.66	120.53
1	b9	60	GLY	C-N-CA	10.73	132.66	120.53
1	5m	100	ARG	NE-CZ-NH2	10.73	128.86	119.20
1	78	28	GLU	N-CA-C	10.73	122.98	111.28
1	ea	172	LEU	N-CA-C	10.73	122.98	111.28
1	4Y	125	PRO	N-CA-CB	10.72	110.73	102.36
1	5s	29	GLU	N-CA-C	10.72	123.05	111.36
1	bz	24	VAL	CA-C-N	10.72	134.38	120.44
1	iT	197	ASP	CA-CB-CG	10.72	123.32	112.60
1	8e	142	VAL	CA-C-N	10.72	134.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8e	142	VAL	C-N-CA	10.72	134.38	120.44
1	bz	24	VAL	C-N-CA	10.72	134.38	120.44
1	ea	214	MET	N-CA-C	10.72	122.97	111.28
1	3K	143	ARG	NE-CZ-NH1	10.72	132.22	121.50
1	25	152	ASP	CA-CB-CG	10.72	123.32	112.60
1	iU	195	ASN	CA-C-O	-10.72	109.02	120.17
1	5y	124	ILE	O-C-N	-10.72	112.24	121.57
1	8W	25	LYS	N-CA-C	10.72	123.97	111.11
1	jr	121	ASN	OD1-CG-ND2	-10.71	111.89	122.60
1	jD	80	TRP	CA-C-N	10.71	134.37	120.44
1	jD	80	TRP	C-N-CA	10.71	134.37	120.44
1	29	150	ILE	N-CA-C	10.71	121.55	110.62
1	7Q	150	ILE	N-CA-C	10.71	121.55	110.62
1	kG	52	LEU	CA-C-N	10.71	134.64	120.28
1	kG	52	LEU	C-N-CA	10.71	134.64	120.28
1	3P	110	THR	N-CA-CB	10.71	127.27	110.56
1	kz	229	ARG	N-CA-C	10.71	126.13	110.28
1	lE	78	ALA	O-C-N	-10.71	110.77	122.12
1	5h	195	ASN	CA-C-O	-10.71	109.68	119.75
1	2d	195	ASN	CA-CB-CG	10.71	123.31	112.60
1	cG	94	GLY	CA-C-N	10.71	136.00	120.90
1	cG	94	GLY	C-N-CA	10.71	136.00	120.90
1	6n	72	THR	N-CA-C	10.71	122.53	111.07
1	cI	150	ILE	N-CA-C	10.70	121.54	110.62
1	fB	36	VAL	CA-C-N	10.70	128.89	120.33
1	fB	36	VAL	C-N-CA	10.70	128.89	120.33
1	j1	179	GLN	N-CA-C	10.70	125.45	111.75
1	3p	82	ARG	NE-CZ-NH1	10.70	132.20	121.50
1	8T	201	ILE	N-CA-C	10.70	124.47	111.09
1	8Y	16	SER	O-C-N	-10.70	112.60	121.38
1	aE	184	TRP	O-C-N	-10.70	111.05	122.07
1	aB	162	ARG	NE-CZ-NH1	10.70	132.20	121.50
1	27	28	GLU	N-CA-C	10.70	122.52	111.07
1	fc	132	ARG	NE-CZ-NH2	-10.70	109.57	119.20
1	iH	173	ARG	NE-CZ-NH2	-10.69	109.58	119.20
1	54	12	HIS	CA-CB-CG	10.69	124.49	113.80
1	3L	132	ARG	NE-CZ-NH1	10.69	132.19	121.50
1	1n	32	PHE	CA-CB-CG	-10.69	103.11	113.80
1	ef	36	VAL	CA-C-N	10.69	130.69	120.43
1	ef	36	VAL	C-N-CA	10.69	130.69	120.43
1	kg	124	ILE	O-C-N	-10.69	114.64	121.37
1	62	120	HIS	CA-C-N	10.69	136.00	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	120	HIS	C-N-CA	10.69	136.00	122.64
1	7j	154	ARG	NE-CZ-NH2	-10.69	109.58	119.20
1	dd	107	THR	N-CA-C	-10.69	99.76	113.12
1	dg	76	GLU	N-CA-C	10.69	122.51	111.07
1	kt	161	PHE	CA-CB-CG	-10.69	103.11	113.80
1	5b	37	ILE	N-CA-CB	10.69	117.68	110.52
1	9U	142	VAL	N-CA-CB	10.69	123.05	110.55
1	cz	225	GLY	N-CA-C	10.69	124.09	112.33
1	gj	103	ASP	CA-CB-CG	-10.68	101.92	112.60
1	lb	100	ARG	NE-CZ-NH2	-10.68	109.59	119.20
1	9U	98	GLU	N-CA-C	10.68	123.40	109.83
1	6M	72	THR	CA-C-O	10.68	131.87	120.55
1	ar	50	GLN	N-CA-C	10.68	122.92	111.28
1	bp	81	ASP	N-CA-C	10.68	122.92	111.28
1	cW	37	ILE	N-CA-CB	10.68	118.78	110.45
1	ex	166	ASP	CA-CB-CG	10.68	123.28	112.60
1	89	101	GLY	CA-C-N	10.68	135.01	120.38
1	89	101	GLY	C-N-CA	10.68	135.01	120.38
1	cO	29	GLU	N-CA-C	10.68	122.92	111.28
1	k0	194	ALA	N-CA-C	10.68	124.12	110.24
1	6d	195	ASN	CA-CB-CG	10.68	123.28	112.60
1	7k	129	ILE	N-CA-C	10.68	121.33	110.23
1	bj	57	ASN	CA-CB-CG	-10.68	101.92	112.60
1	ea	136	LEU	CA-C-N	10.68	131.74	120.00
1	ea	136	LEU	C-N-CA	10.68	131.74	120.00
1	l9	166	ASP	CA-CB-CG	10.67	123.27	112.60
1	lB	159	GLU	CA-C-O	-10.67	110.91	119.66
1	cU	180	GLU	N-CA-C	10.67	122.91	111.28
1	d7	193	ASN	OD1-CG-ND2	-10.67	111.93	122.60
1	ei	176	GLN	N-CA-C	10.67	122.91	111.28
1	er	52	LEU	N-CA-C	10.67	123.98	111.71
1	fu	130	TYR	N-CA-C	10.67	122.49	111.07
1	27	142	VAL	O-C-N	-10.67	111.52	121.87
1	3N	37	ILE	O-C-N	-10.67	113.59	120.42
1	7E	37	ILE	O-C-N	-10.67	113.59	120.42
1	8q	72	THR	N-CA-C	10.67	122.91	111.28
1	gi	179	GLN	CA-C-N	10.67	134.57	120.28
1	gi	179	GLN	C-N-CA	10.67	134.57	120.28
1	lF	185	MET	N-CA-C	10.67	122.91	111.28
1	e3	77	ALA	O-C-N	-10.67	110.81	122.12
1	hB	36	VAL	CA-C-N	10.66	126.96	120.24
1	hB	36	VAL	C-N-CA	10.66	126.96	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bi	129	ILE	O-C-N	-10.66	111.46	121.91
1	b	33	SER	O-C-N	-10.66	113.23	121.55
1	dU	166	ASP	CA-CB-CG	10.66	123.26	112.60
1	E	60	GLY	CA-C-N	10.66	132.04	119.99
1	E	60	GLY	C-N-CA	10.66	132.04	119.99
1	gA	12	HIS	CA-CB-CG	-10.66	103.14	113.80
1	8f	98	GLU	O-C-N	-10.66	114.89	121.71
1	8w	226	HIS	CA-CB-CG	10.66	124.46	113.80
1	gd	203	LYS	N-CA-C	10.66	124.23	111.33
1	jY	221	VAL	N-CA-C	10.66	121.49	110.62
1	7R	53	ASN	CA-CB-CG	-10.66	101.94	112.60
1	e5	124	ILE	O-C-N	-10.66	114.66	121.37
1	3l	155	GLN	O-C-N	-10.65	110.57	123.04
1	gC	33	SER	N-CA-C	-10.65	98.63	108.22
1	k8	179	GLN	N-CA-C	10.65	122.89	111.28
1	jN	63	GLN	N-CA-C	10.65	123.96	111.71
1	lC	122	PRO	CA-C-N	10.65	130.75	119.89
1	lC	122	PRO	C-N-CA	10.65	130.75	119.89
1	2n	154	ARG	NE-CZ-NH2	-10.65	109.62	119.20
1	16	66	MET	CA-C-O	10.65	132.13	120.63
1	cp	59	VAL	CA-C-N	10.65	131.54	119.94
1	cp	59	VAL	C-N-CA	10.65	131.54	119.94
1	eD	112	GLN	CA-C-N	10.65	134.28	120.44
1	eD	112	GLN	C-N-CA	10.65	134.28	120.44
1	e	162	ARG	N-CA-C	10.65	122.88	111.28
1	1J	143	ARG	NE-CZ-NH1	10.64	132.14	121.50
1	cA	115	ILE	N-CA-C	10.64	120.64	110.42
1	ib	60	GLY	CA-C-N	10.64	130.45	120.34
1	ib	60	GLY	C-N-CA	10.64	130.45	120.34
1	jb	117	TRP	N-CA-C	10.64	122.88	111.28
1	52	100	ARG	NE-CZ-NH2	-10.64	109.62	119.20
1	8L	166	ASP	CA-CB-CG	10.64	123.24	112.60
1	bb	37	ILE	N-CA-CB	10.64	118.75	110.45
1	g5	201	ILE	N-CA-C	10.64	122.75	110.62
1	jd	191	VAL	O-C-N	-10.64	111.48	121.91
1	Z	87	HIS	N-CA-C	-10.64	100.35	113.97
1	e2	33	SER	O-C-N	-10.64	114.33	121.88
1	gL	220	GLY	CA-C-N	10.64	134.75	120.50
1	gL	220	GLY	C-N-CA	10.64	134.75	120.50
1	jC	24	VAL	CA-C-N	10.64	134.27	120.44
1	jC	24	VAL	C-N-CA	10.64	134.27	120.44
1	47	167	ARG	NE-CZ-NH2	-10.64	109.63	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7e	206	GLY	O-C-N	-10.64	111.13	121.77
1	ch	97	ARG	NE-CZ-NH1	10.63	132.13	121.50
1	k7	179	GLN	N-CA-C	10.63	122.44	111.07
1	7g	132	ARG	NE-CZ-NH1	10.63	132.13	121.50
1	eb	18	ARG	NE-CZ-NH2	-10.63	109.63	119.20
1	p	32	PHE	CA-CB-CG	-10.63	103.17	113.80
1	it	168	PHE	CA-CB-CG	10.63	124.43	113.80
1	3M	37	ILE	CA-C-O	-10.63	111.57	118.69
1	76	41	SER	N-CA-C	10.63	122.44	111.07
1	7k	62	HIS	CA-C-N	10.63	135.38	120.29
1	7k	62	HIS	C-N-CA	10.63	135.38	120.29
1	f0	63	GLN	N-CA-C	10.63	122.87	111.28
1	17	84	HIS	CB-CA-C	-10.62	99.65	110.17
1	js	183	ASN	CA-CB-CG	-10.62	101.98	112.60
1	6F	37	ILE	N-CA-CB	-10.62	103.81	110.50
1	7u	100	ARG	CA-C-N	10.62	131.99	119.99
1	7u	100	ARG	C-N-CA	10.62	131.99	119.99
1	bo	186	THR	N-CA-C	10.62	122.94	111.36
1	42	191	VAL	N-CA-C	10.62	120.61	110.42
1	7z	83	LEU	N-CA-C	10.62	122.86	111.28
1	6d	32	PHE	CA-CB-CG	-10.62	103.18	113.80
1	eU	181	VAL	N-CA-CB	10.62	122.97	110.55
1	ha	84	HIS	O-C-N	-10.62	111.70	121.36
1	ho	74	ASN	OD1-CG-ND2	-10.62	111.98	122.60
1	jh	170	LYS	N-CA-C	10.61	123.85	111.11
1	lG	36	VAL	N-CA-C	10.61	121.45	110.62
1	6z	195	ASN	CA-CB-CG	10.62	123.22	112.60
1	8G	33	SER	CA-C-N	10.62	130.22	119.82
1	8G	33	SER	C-N-CA	10.62	130.22	119.82
1	j0	124	ILE	O-C-N	-10.61	113.18	121.46
1	jq	63	GLN	OE1-CD-NE2	-10.61	111.99	122.60
1	l1	128	GLU	N-CA-C	10.61	122.85	111.28
1	a3	120	HIS	CA-CB-CG	10.61	124.41	113.80
1	bo	89	GLY	CA-C-O	-10.61	111.45	122.38
1	gg	124	ILE	O-C-N	-10.61	114.69	121.37
1	3m	201	ILE	N-CA-C	10.61	120.61	110.42
1	1l	167	ARG	NE-CZ-NH1	10.61	132.11	121.50
1	gL	150	ILE	N-CA-C	10.61	121.44	110.62
1	3I	59	VAL	N-CA-CB	10.61	122.09	110.53
1	jR	75	GLU	O-C-N	-10.61	111.15	122.07
1	87	1	PRO	CA-C-N	10.60	136.29	122.93
1	87	1	PRO	C-N-CA	10.60	136.29	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fF	104	ILE	N-CA-C	10.60	121.44	110.62
1	9f	141	ILE	N-CA-C	10.60	120.60	110.42
1	jv	164	TYR	N-CA-C	10.60	124.16	111.33
1	2s	5	ASN	OD1-CG-ND2	-10.60	112.00	122.60
1	74	92	GLU	N-CA-C	10.60	121.79	109.60
1	b1	125	PRO	N-CA-CB	-10.60	95.71	102.81
1	gb	229	ARG	NE-CZ-NH1	10.59	132.09	121.50
1	gP	173	ARG	NE-CZ-NH1	10.59	132.09	121.50
1	3M	13	GLN	OE1-CD-NE2	-10.59	112.01	122.60
1	5J	224	PRO	CA-C-N	10.59	131.96	119.99
1	5J	224	PRO	C-N-CA	10.59	131.96	119.99
1	6P	63	GLN	N-CA-C	10.59	123.89	111.71
1	19	155	GLN	OE1-CD-NE2	-10.59	112.01	122.60
1	bF	179	GLN	N-CA-C	10.59	122.91	111.36
1	cs	128	GLU	N-CA-C	10.59	122.40	111.07
1	7x	155	GLN	N-CA-CB	10.59	125.63	109.85
1	4M	62	HIS	CA-CB-CG	-10.59	103.21	113.80
1	gn	12	HIS	CA-CB-CG	10.59	124.39	113.80
1	hd	163	ASP	CA-CB-CG	-10.59	102.01	112.60
1	6h	199	LYS	CA-C-N	10.59	134.21	120.44
1	6h	199	LYS	C-N-CA	10.59	134.21	120.44
1	em	122	PRO	CA-C-N	10.59	131.25	119.92
1	hf	195	ASN	CA-CB-CG	10.59	123.19	112.60
1	6C	121	ASN	CA-CB-CG	-10.59	102.01	112.60
1	9L	221	VAL	CA-C-N	10.59	130.16	120.10
1	9L	221	VAL	C-N-CA	10.59	130.16	120.10
1	cs	67	GLN	OE1-CD-NE2	10.59	133.19	122.60
1	em	122	PRO	C-N-CA	10.59	131.25	119.92
1	3R	117	TRP	N-CA-C	10.58	123.81	111.11
1	8t	36	VAL	CA-C-N	10.58	126.91	120.24
1	8t	36	VAL	C-N-CA	10.58	126.91	120.24
1	bV	202	LEU	N-CA-C	10.58	122.82	111.28
1	8X	195	ASN	CA-CB-CG	10.58	123.18	112.60
1	if	3	VAL	CA-C-N	10.58	135.90	120.87
1	if	3	VAL	C-N-CA	10.58	135.90	120.87
1	8B	42	ALA	N-CA-C	10.58	122.81	111.28
1	1h	124	ILE	N-CA-C	-10.58	96.36	107.89
1	2	17	PRO	CA-C-N	10.58	134.19	120.44
1	2	17	PRO	C-N-CA	10.58	134.19	120.44
1	ig	37	ILE	O-C-N	-10.58	113.65	120.42
1	3v	84	HIS	O-C-N	-10.58	109.62	121.36
1	8B	92	GLU	CA-C-O	-10.58	110.35	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i0	173	ARG	NE-CZ-NH2	-10.57	109.68	119.20
1	1H	12	HIS	CA-CB-CG	-10.57	103.23	113.80
1	6O	211	LEU	CA-C-N	10.57	134.86	120.38
1	6O	211	LEU	C-N-CA	10.57	134.86	120.38
1	8b	33	SER	O-C-N	-10.57	114.45	121.85
1	8K	167	ARG	NE-CZ-NH1	10.57	132.07	121.50
1	aP	97	ARG	NE-CZ-NH2	-10.57	109.69	119.20
1	d8	140	LYS	N-CA-C	10.57	122.80	111.28
1	4z	135	ILE	N-CA-C	10.57	121.40	110.62
1	a1	195	ASN	CA-CB-CG	10.57	123.17	112.60
1	bv	195	ASN	N-CA-C	10.57	122.57	109.57
1	fJ	23	TRP	CB-CG-CD2	10.57	141.59	126.80
1	6i	44	SER	N-CA-C	10.56	122.88	111.36
1	at	221	VAL	CA-C-N	10.56	131.96	120.44
1	at	221	VAL	C-N-CA	10.56	131.96	120.44
1	f9	175	GLU	N-CA-C	10.56	123.86	111.71
1	ho	151	LEU	N-CA-C	10.56	122.79	111.28
1	3B	71	GLU	CA-C-N	10.56	134.17	120.44
1	3B	71	GLU	C-N-CA	10.56	134.17	120.44
1	le	118	MET	N-CA-C	10.56	124.07	111.82
1	cv	170	LYS	N-CA-C	10.56	124.11	111.33
1	jE	37	ILE	O-C-N	-10.56	113.66	120.42
1	3x	36	VAL	CA-C-N	10.55	126.89	120.24
1	3x	36	VAL	C-N-CA	10.55	126.89	120.24
1	9a	106	GLY	CA-C-O	10.55	130.73	119.01
1	5K	152	ASP	N-CA-C	10.55	122.86	111.36
1	8v	82	ARG	NE-CZ-NH1	10.55	132.05	121.50
1	1e	132	ARG	NE-CZ-NH2	10.55	128.70	119.20
1	1s	170	LYS	N-CA-C	10.55	122.36	111.07
1	2Q	193	ASN	CA-CB-CG	-10.55	102.05	112.60
1	6b	29	GLU	CA-C-O	10.55	131.73	120.55
1	jG	228	ALA	N-CA-C	10.55	125.12	110.35
1	2b	226	HIS	CA-CB-CG	10.55	124.35	113.80
1	fe	29	GLU	N-CA-C	10.55	122.78	111.28
1	iP	190	LEU	N-CA-C	10.54	122.77	111.28
1	kg	42	ALA	N-CA-C	10.54	122.77	111.28
1	4Q	81	ASP	CA-CB-CG	10.55	123.15	112.60
1	4S	214	MET	N-CA-C	10.55	122.78	111.28
1	1u	76	GLU	CA-C-N	10.55	134.15	120.44
1	6e	53	ASN	CA-CB-CG	-10.54	102.06	112.60
1	cj	150	ILE	N-CA-C	10.54	121.38	110.62
1	1u	76	GLU	C-N-CA	10.55	134.15	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	183	ASN	N-CA-C	10.54	122.77	111.28
1	25	18	ARG	NE-CZ-NH1	10.54	132.04	121.50
1	5T	226	HIS	CA-CB-CG	10.54	124.34	113.80
1	7X	142	VAL	N-CA-C	10.54	122.64	110.62
1	81	167	ARG	NE-CZ-NH2	-10.54	109.71	119.20
1	aq	126	VAL	CA-C-N	10.54	131.60	120.00
1	aq	126	VAL	C-N-CA	10.54	131.60	120.00
1	ct	57	ASN	OD1-CG-ND2	-10.54	112.06	122.60
1	7b	11	VAL	N-CA-CB	10.54	122.21	110.72
1	8b	89	GLY	CA-C-N	10.54	133.01	119.84
1	8b	89	GLY	C-N-CA	10.54	133.01	119.84
1	X	187	GLU	N-CA-C	10.54	122.52	111.14
1	5s	113	GLU	N-CA-C	10.54	122.85	111.36
1	6V	226	HIS	CB-CG-CD2	-10.54	117.50	131.20
1	l	84	HIS	CA-CB-CG	-10.54	103.26	113.80
1	D	143	ARG	NE-CZ-NH1	10.54	132.04	121.50
1	59	115	ILE	CA-C-N	10.54	131.63	119.94
1	59	115	ILE	C-N-CA	10.54	131.63	119.94
1	7b	36	VAL	CA-C-N	10.54	128.76	120.33
1	7b	36	VAL	C-N-CA	10.54	128.76	120.33
1	1a	118	MET	N-CA-C	10.54	122.84	111.36
1	f5	36	VAL	N-CA-C	10.54	121.36	110.62
1	3	98	GLU	O-C-N	-10.54	112.70	121.23
1	gu	124	ILE	N-CA-CB	-10.53	98.88	111.31
1	ic	118	MET	N-CA-C	10.53	122.34	111.07
1	5L	59	VAL	N-CA-C	10.53	122.23	108.12
1	8s	163	ASP	CA-CB-CG	-10.53	102.07	112.60
1	bf	192	GLN	OE1-CD-NE2	-10.53	112.07	122.60
1	dK	146	SER	CA-C-N	10.53	130.28	119.64
1	dK	146	SER	C-N-CA	10.53	130.28	119.64
1	9w	193	ASN	CA-CB-CG	-10.53	102.07	112.60
1	dn	173	ARG	NE-CZ-NH1	10.53	132.03	121.50
1	iH	143	ARG	NE-CZ-NH1	10.53	132.03	121.50
1	2p	74	ASN	CA-CB-CG	10.53	123.13	112.60
1	5G	144	MET	N-CA-C	10.53	122.44	110.97
1	5Q	50	GLN	N-CA-C	10.53	123.74	111.11
1	eN	33	SER	N-CA-CB	10.53	121.16	111.27
1	kS	146	SER	N-CA-C	10.52	126.93	113.25
1	81	126	VAL	N-CA-C	10.52	120.52	110.42
1	a4	121	ASN	O-C-N	-10.52	112.03	121.39
1	cx	21	ASN	OD1-CG-ND2	-10.52	112.08	122.60
1	8U	159	GLU	CA-C-O	-10.52	111.53	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5t	63	GLN	OE1-CD-NE2	-10.52	112.08	122.60
1	K	43	LEU	N-CA-C	10.52	122.74	111.28
1	cq	141	ILE	N-CA-C	10.51	121.34	110.62
1	if	161	PHE	N-CA-C	10.51	122.74	111.28
1	ix	128	GLU	O-C-N	-10.51	111.24	122.07
1	9x	66	MET	N-CA-C	10.51	122.74	111.28
1	13	128	GLU	N-CA-C	10.51	122.74	111.28
1	jw	63	GLN	N-CA-C	10.51	122.81	111.36
1	2f	76	GLU	CA-C-N	10.51	134.36	120.28
1	2f	76	GLU	C-N-CA	10.51	134.36	120.28
1	9f	50	GLN	N-CA-C	10.51	122.73	111.28
1	av	162	ARG	NE-CZ-NH1	10.51	132.01	121.50
1	dj	129	ILE	N-CA-C	10.51	120.51	110.42
1	ef	102	SER	CA-C-N	10.51	135.21	120.29
1	ef	102	SER	C-N-CA	10.51	135.21	120.29
1	eO	71	GLU	N-CA-C	10.51	122.73	111.28
1	m	20	LEU	CA-C-N	10.51	134.36	120.28
1	m	20	LEU	C-N-CA	10.51	134.36	120.28
1	6g	70	LYS	N-CA-C	10.51	122.73	111.28
1	a1	97	ARG	NE-CZ-NH1	10.51	132.00	121.50
1	b3	195	ASN	CA-CB-CG	10.50	123.10	112.60
1	2z	16	SER	CA-C-O	-10.50	111.15	120.60
1	6A	5	ASN	CA-CB-CG	10.50	123.10	112.60
1	8p	195	ASN	CA-CB-CG	10.50	123.10	112.60
1	i4	205	LEU	N-CA-C	10.50	124.03	111.33
1	ks	162	ARG	NE-CZ-NH1	10.50	132.00	121.50
1	kx	21	ASN	O-C-N	-10.50	111.26	122.07
1	1Z	130	TYR	O-C-N	-10.50	110.99	122.12
1	lO	12	HIS	CB-CG-CD2	-10.50	117.55	131.20
1	2b	23	TRP	CA-C-N	10.50	134.14	120.60
1	2b	23	TRP	C-N-CA	10.50	134.14	120.60
1	7b	121	ASN	CA-CB-CG	-10.50	102.10	112.60
1	jb	180	GLU	N-CA-C	10.49	122.30	111.07
1	jX	124	ILE	O-C-N	-10.49	114.10	121.55
1	3Z	150	ILE	N-CA-C	10.49	121.33	110.62
1	1t	36	VAL	CA-C-N	10.49	128.72	120.33
1	1t	36	VAL	C-N-CA	10.49	128.72	120.33
1	bC	192	GLN	CB-CG-CD	10.49	130.44	112.60
1	et	162	ARG	NE-CZ-NH1	10.49	131.99	121.50
1	1V	82	ARG	CA-C-N	10.49	134.34	120.28
1	1V	82	ARG	C-N-CA	10.49	134.34	120.28
1	5e	36	VAL	CA-C-N	10.49	126.85	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	36	VAL	C-N-CA	10.49	126.85	120.24
1	1F	32	PHE	CA-C-O	10.49	131.94	119.78
1	1N	205	LEU	N-CA-C	10.49	122.29	111.07
1	45	23	TRP	N-CA-C	10.49	122.79	111.36
1	6T	36	VAL	CA-C-N	10.48	130.50	120.43
1	6T	36	VAL	C-N-CA	10.48	130.50	120.43
1	bJ	100	ARG	NE-CZ-NH2	10.48	128.64	119.20
1	fM	32	PHE	CA-CB-CG	-10.48	103.32	113.80
1	4S	137	GLY	O-C-N	-10.48	112.13	122.19
1	Q	137	GLY	N-CA-C	10.48	125.30	112.73
1	iF	195	ASN	CA-CB-CG	10.47	123.08	112.60
1	2C	75	GLU	CA-C-O	10.47	132.11	120.90
1	4n	66	MET	CA-C-N	10.47	134.31	120.28
1	4n	66	MET	C-N-CA	10.47	134.31	120.28
1	65	115	ILE	O-C-N	-10.47	111.71	121.87
1	6r	27	VAL	CA-C-N	10.47	134.06	120.44
1	6r	27	VAL	C-N-CA	10.47	134.06	120.44
1	3Z	86	VAL	N-CA-C	10.47	123.50	109.37
1	bs	122	PRO	CA-C-N	10.47	130.54	119.76
1	bs	122	PRO	C-N-CA	10.47	130.54	119.76
1	2O	221	VAL	CA-C-N	10.47	134.83	121.85
1	2O	221	VAL	C-N-CA	10.47	134.83	121.85
1	6C	88	ALA	CA-C-O	10.47	130.48	118.55
1	6M	223	GLY	O-C-N	-10.47	113.00	122.42
1	ib	146	SER	CA-C-O	-10.46	111.08	119.66
1	je	115	ILE	CA-C-N	10.47	131.82	119.99
1	je	115	ILE	C-N-CA	10.47	131.82	119.99
1	ly	127	GLY	O-C-N	-10.47	112.04	122.19
1	2I	221	VAL	N-CA-C	10.46	122.55	110.62
1	6W	115	ILE	CA-C-N	10.47	131.82	119.99
1	6W	115	ILE	C-N-CA	10.47	131.82	119.99
1	92	230	VAL	N-CA-C	10.47	120.47	110.42
1	aG	55	MET	N-CA-C	10.46	122.69	111.28
1	dj	159	GLU	O-C-N	-10.46	111.72	121.35
1	ep	67	GLN	N-CA-C	10.46	122.27	111.07
1	e2	18	ARG	NE-CZ-NH2	-10.46	109.78	119.20
1	29	191	VAL	N-CA-C	10.46	121.29	110.62
1	eS	125	PRO	CA-C-N	10.46	133.74	120.56
1	eS	125	PRO	C-N-CA	10.46	133.74	120.56
1	6g	173	ARG	NE-CZ-NH1	10.46	131.96	121.50
1	bM	124	ILE	N-CA-C	10.46	118.33	107.76
1	fu	37	ILE	O-C-N	-10.46	112.64	120.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gJ	63	GLN	N-CA-C	10.46	122.68	111.28
1	4F	40	PHE	CA-C-N	10.46	134.03	120.44
1	4F	40	PHE	C-N-CA	10.46	134.03	120.44
1	gr	51	ASP	CA-CB-CG	-10.46	102.14	112.60
1	9W	73	ILE	N-CA-C	10.46	121.28	110.62
1	e6	195	ASN	CA-CB-CG	10.46	123.06	112.60
1	eC	97	ARG	NE-CZ-NH1	10.46	131.96	121.50
1	fk	71	GLU	N-CA-C	10.46	125.13	111.75
1	gL	195	ASN	CA-CB-CG	10.45	123.05	112.60
1	hM	100	ARG	NE-CZ-NH1	10.45	131.95	121.50
1	hQ	162	ARG	NE-CZ-NH2	10.45	128.61	119.20
1	jH	167	ARG	CA-C-O	10.45	131.79	120.82
1	2T	166	ASP	CA-C-N	10.45	134.03	120.44
1	2T	166	ASP	C-N-CA	10.45	134.03	120.44
1	2Z	10	MET	CA-C-O	-10.45	109.23	121.46
1	ev	62	HIS	CA-CB-CG	10.45	124.25	113.80
1	A	31	ALA	N-CA-C	10.45	122.67	111.28
1	3i	5	ASN	CA-CB-CG	-10.45	102.15	112.60
1	4f	180	GLU	O-C-N	-10.45	111.22	122.09
1	9r	161	PHE	CA-C-N	10.45	134.28	120.28
1	9r	161	PHE	C-N-CA	10.45	134.28	120.28
1	d8	63	GLN	N-CA-C	10.45	122.67	111.28
1	fV	123	PRO	CA-C-N	-10.45	115.07	122.59
1	fV	123	PRO	C-N-CA	-10.45	115.07	122.59
1	iA	122	PRO	CA-C-N	10.45	130.54	119.89
1	iA	122	PRO	C-N-CA	10.45	130.54	119.89
1	ko	124	ILE	O-C-N	-10.45	113.31	121.46
1	6t	176	GLN	N-CA-C	10.45	125.61	112.24
1	87	195	ASN	OD1-CG-ND2	10.45	133.05	122.60
1	8o	154	ARG	CA-C-N	10.45	135.55	120.82
1	8o	154	ARG	C-N-CA	10.45	135.55	120.82
1	9Y	94	GLY	CA-C-N	10.45	135.54	120.71
1	9Y	94	GLY	C-N-CA	10.45	135.54	120.71
1	kh	78	ALA	CA-C-N	10.44	134.02	120.44
1	kh	78	ALA	C-N-CA	10.44	134.02	120.44
1	5l	36	VAL	CA-C-N	10.44	126.82	120.24
1	5l	36	VAL	C-N-CA	10.44	126.82	120.24
1	8M	8	GLY	CA-C-O	-10.44	112.68	122.39
1	hX	168	PHE	CA-CB-CG	-10.44	103.36	113.80
1	1S	204	ALA	CA-C-N	10.44	134.01	120.44
1	1S	204	ALA	C-N-CA	10.44	134.01	120.44
1	io	161	PHE	O-C-N	-10.44	111.06	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	60	114	GLN	OE1-CD-NE2	-10.44	112.16	122.60
1	f7	192	GLN	N-CA-C	10.44	122.24	111.07
1	ap	193	ASN	CA-C-N	10.44	136.51	120.75
1	ap	193	ASN	C-N-CA	10.44	136.51	120.75
1	eC	32	PHE	CA-CB-CG	-10.44	103.36	113.80
1	gP	219	GLN	CA-C-N	10.44	131.56	119.98
1	gP	219	GLN	C-N-CA	10.44	131.56	119.98
1	jU	149	SER	N-CA-CB	10.44	128.13	110.49
1	jl	60	GLY	CA-C-N	10.44	131.81	120.44
1	jl	60	GLY	C-N-CA	10.44	131.81	120.44
1	29	176	GLN	OE1-CD-NE2	-10.44	112.17	122.60
1	lH	202	LEU	CA-C-O	10.44	131.65	120.90
1	2O	154	ARG	NE-CZ-NH1	10.44	131.94	121.50
1	4h	32	PHE	CA-CB-CG	-10.44	103.36	113.80
1	93	36	VAL	CA-C-N	10.44	126.81	120.24
1	93	36	VAL	C-N-CA	10.44	126.81	120.24
1	9q	181	VAL	N-CA-C	-10.44	102.83	111.81
1	br	97	ARG	NE-CZ-NH2	-10.44	109.81	119.20
1	19	124	ILE	O-C-N	-10.44	114.80	121.37
1	1c	193	ASN	CA-CB-CG	-10.44	102.16	112.60
1	em	57	ASN	OD1-CG-ND2	-10.44	112.16	122.60
1	9y	18	ARG	NE-CZ-NH1	10.43	131.93	121.50
1	e2	183	ASN	CA-CB-CG	10.43	123.03	112.60
1	bF	188	THR	N-CA-C	10.43	123.63	111.11
1	lu	48	THR	O-C-N	-10.43	111.82	121.20
1	dc	100	ARG	NH1-CZ-NH2	-10.43	105.75	119.30
1	dF	97	ARG	NE-CZ-NH1	10.43	131.93	121.50
1	j6	74	ASN	CA-CB-CG	-10.42	102.18	112.60
1	3n	202	LEU	N-CA-C	10.42	123.70	111.71
1	3v	208	ALA	N-CA-C	10.42	122.64	111.28
1	eD	125	PRO	CA-C-N	10.42	134.05	120.60
1	4q	144	MET	CA-C-N	10.42	134.61	120.44
1	4q	144	MET	C-N-CA	10.42	134.61	120.44
1	aV	195	ASN	CA-C-O	-10.42	110.52	119.59
1	bZ	167	ARG	NE-CZ-NH1	10.42	131.92	121.50
1	1h	56	LEU	CA-C-O	10.42	131.60	120.55
1	eD	125	PRO	C-N-CA	10.42	134.05	120.60
1	B	117	TRP	N-CA-C	10.42	122.64	111.28
1	gp	120	HIS	CE1-NE2-CD2	-10.42	98.58	109.00
1	l8	204	ALA	N-CA-C	10.42	122.64	111.28
1	4d	226	HIS	CB-CG-CD2	-10.42	117.65	131.20
1	b2	120	HIS	CA-CB-CG	10.42	124.22	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b7	21	ASN	CA-CB-CG	10.42	123.02	112.60
1	W	97	ARG	NE-CZ-NH2	-10.42	109.82	119.20
1	bR	37	ILE	N-CA-CB	10.42	117.50	110.52
1	j8	84	HIS	ND1-CE1-NE2	10.42	118.82	108.40
1	ju	37	ILE	O-C-N	-10.42	113.75	120.42
1	hQ	55	MET	N-CA-C	10.41	123.73	111.02
1	ii	195	ASN	CA-CB-CG	-10.41	102.19	112.60
1	3f	98	GLU	O-C-N	-10.41	110.08	121.53
1	51	132	ARG	NE-CZ-NH1	10.41	131.91	121.50
1	a5	203	LYS	N-CA-C	10.41	122.71	111.36
1	lb	100	ARG	CA-C-N	10.41	131.69	120.03
1	lb	100	ARG	C-N-CA	10.41	131.69	120.03
1	d8	124	ILE	CA-C-O	-10.41	113.01	119.15
1	fQ	139	ASN	OD1-CG-ND2	-10.41	112.19	122.60
1	C	117	TRP	CA-C-O	-10.41	109.51	120.55
1	iL	28	GLU	N-CA-C	10.41	122.63	111.28
1	dC	137	GLY	CA-C-N	10.41	135.07	120.29
1	dC	137	GLY	C-N-CA	10.41	135.07	120.29
1	hn	161	PHE	N-CA-C	10.41	122.62	111.28
1	hg	131	LYS	CA-C-O	-10.41	109.89	120.82
1	kH	48	THR	N-CA-CB	10.41	121.81	109.74
1	32	37	ILE	N-CA-CB	10.41	118.57	110.45
1	5L	158	LYS	O-C-N	-10.41	109.46	122.26
1	65	132	ARG	NE-CZ-NH2	-10.41	109.83	119.20
1	6K	197	ASP	CA-CB-CG	10.41	123.01	112.60
1	b2	32	PHE	CA-CB-CG	-10.41	103.39	113.80
1	3B	98	GLU	O-C-N	-10.40	114.50	121.88
1	gl	189	LEU	N-CA-C	10.40	122.20	111.07
1	iu	106	GLY	CA-C-N	10.40	133.96	120.44
1	iu	106	GLY	C-N-CA	10.40	133.96	120.44
1	iX	143	ARG	NE-CZ-NH1	10.40	131.90	121.50
1	5v	173	ARG	N-CA-C	10.40	122.61	111.28
1	6A	152	ASP	CA-CB-CG	10.40	123.00	112.60
1	d8	123	PRO	CA-C-N	10.40	130.08	122.59
1	d8	123	PRO	C-N-CA	10.40	130.08	122.59
1	at	117	TRP	N-CA-C	10.40	122.61	111.28
1	dI	117	TRP	N-CA-C	10.40	122.69	111.36
1	7	226	HIS	CA-CB-CG	10.40	124.20	113.80
1	fA	36	VAL	CA-C-N	10.40	128.65	120.33
1	fA	36	VAL	C-N-CA	10.40	128.65	120.33
1	2r	152	ASP	CA-CB-CG	10.39	122.99	112.60
1	9a	173	ARG	NE-CZ-NH2	10.39	128.56	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9r	2	ILE	CA-C-O	10.39	131.69	120.57
1	dR	98	GLU	CA-C-O	-10.39	112.53	119.29
1	fl	100	ARG	O-C-N	-10.39	111.28	123.03
1	if	92	GLU	N-CA-C	10.39	121.55	109.60
1	lz	188	THR	CA-C-O	10.39	127.06	119.68
1	jW	201	ILE	N-CA-C	10.39	121.22	110.62
1	lI	88	ALA	N-CA-C	10.39	123.73	110.33
1	4d	132	ARG	NE-CZ-NH1	10.39	131.89	121.50
1	9L	37	ILE	N-CA-CB	-10.39	103.56	110.52
1	3t	126	VAL	CA-C-N	10.39	131.43	120.00
1	3t	126	VAL	C-N-CA	10.39	131.43	120.00
1	6N	2	ILE	CB-CA-C	10.39	125.21	110.98
1	7e	143	ARG	NE-CZ-NH2	10.39	128.55	119.20
1	5m	121	ASN	CA-CB-CG	-10.38	102.22	112.60
1	aW	37	ILE	CA-C-N	10.39	130.58	119.05
1	aW	37	ILE	C-N-CA	10.39	130.58	119.05
1	h0	100	ARG	CA-C-N	10.38	131.72	119.99
1	h0	100	ARG	C-N-CA	10.38	131.72	119.99
1	jG	128	GLU	N-CA-C	10.38	122.18	111.07
1	de	32	PHE	CA-CB-CG	-10.38	103.42	113.80
1	fj	98	GLU	CA-C-N	10.38	131.04	119.83
1	fj	98	GLU	C-N-CA	10.38	131.04	119.83
1	ka	144	MET	N-CA-C	10.38	122.18	111.07
1	6f	29	GLU	N-CA-C	10.38	122.59	111.28
1	bH	139	ASN	OD1-CG-ND2	-10.38	112.22	122.60
1	6E	87	HIS	N-CA-C	10.38	125.50	110.24
1	88	186	THR	O-C-N	-10.38	111.38	122.07
1	1V	56	LEU	CA-C-O	10.38	131.55	120.55
1	cK	177	ALA	N-CA-C	10.38	123.73	110.24
1	cV	170	LYS	N-CA-C	10.38	123.56	111.11
1	eK	159	GLU	O-C-N	-10.38	111.53	121.18
1	jo	153	ILE	N-CA-CB	10.38	123.07	110.31
1	6X	9	GLN	N-CA-C	10.38	124.46	110.35
1	bk	115	ILE	CA-C-N	10.38	131.65	120.03
1	bk	115	ILE	C-N-CA	10.38	131.65	120.03
1	r	84	HIS	O-C-N	-10.38	116.76	121.53
1	dM	152	ASP	CA-CB-CG	10.37	122.97	112.60
1	gf	24	VAL	O-C-N	-10.37	111.57	121.94
1	iW	162	ARG	NE-CZ-NH1	10.37	131.87	121.50
1	cj	195	ASN	O-C-N	-10.37	112.07	121.30
1	jM	105	ALA	N-CA-C	10.37	122.34	111.14
1	dk	24	VAL	N-CA-C	10.37	122.44	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	8	GLY	N-CA-C	-10.37	101.61	112.08
1	ln	213	GLU	N-CA-C	10.37	122.58	111.28
1	fe	77	ALA	CA-C-N	10.37	134.17	120.28
1	fe	77	ALA	C-N-CA	10.37	134.17	120.28
1	57	76	GLU	CA-C-N	10.36	133.91	120.44
1	57	76	GLU	C-N-CA	10.36	133.91	120.44
1	6J	129	ILE	O-C-N	-10.36	111.82	121.87
1	G	206	GLY	CA-C-O	-10.37	111.70	122.38
1	if	166	ASP	CA-CB-CG	10.36	122.96	112.60
1	5I	143	ARG	O-C-N	-10.36	111.14	122.12
1	5P	134	ILE	CA-C-N	10.36	133.62	120.56
1	5P	134	ILE	C-N-CA	10.36	133.62	120.56
1	8p	123	PRO	CA-C-N	-10.36	115.13	122.59
1	8p	123	PRO	C-N-CA	-10.36	115.13	122.59
1	dW	73	ILE	CA-C-N	10.36	134.16	120.28
1	dW	73	ILE	C-N-CA	10.36	134.16	120.28
1	dG	84	HIS	CE1-NE2-CD2	-10.36	98.64	109.00
1	gG	167	ARG	NE-CZ-NH1	10.36	131.86	121.50
1	kV	159	GLU	O-C-N	-10.36	115.08	121.71
1	l9	86	VAL	O-C-N	-10.36	112.57	123.14
1	4y	59	VAL	N-CA-C	10.36	121.18	110.62
1	bi	197	ASP	CA-CB-CG	-10.36	102.24	112.60
1	78	114	GLN	N-CA-C	10.36	122.15	111.07
1	8A	87	HIS	CA-CB-CG	10.36	124.16	113.80
1	hd	188	THR	CA-C-N	10.35	134.15	120.28
1	hd	188	THR	C-N-CA	10.35	134.15	120.28
1	lC	201	ILE	CA-C-O	10.35	129.14	119.20
1	3Q	212	GLU	N-CA-C	10.35	122.56	111.28
1	81	127	GLY	CA-C-N	10.35	134.99	120.29
1	81	127	GLY	C-N-CA	10.35	134.99	120.29
1	8Q	36	VAL	CA-C-N	10.35	126.76	120.24
1	8Q	36	VAL	C-N-CA	10.35	126.76	120.24
1	9E	161	PHE	CA-CB-CG	-10.35	103.45	113.80
1	2E	132	ARG	NE-CZ-NH1	10.35	131.85	121.50
1	7o	79	GLU	CA-C-N	10.35	134.15	120.28
1	7o	79	GLU	C-N-CA	10.35	134.15	120.28
1	1a	57	ASN	CA-CB-CG	10.35	122.95	112.60
1	eR	118	MET	O-C-N	-10.35	111.15	122.12
1	lj	211	LEU	CA-C-O	-10.34	109.96	120.82
1	1U	227	LYS	N-CA-C	10.34	123.69	110.24
1	lw	13	GLN	OE1-CD-NE2	-10.34	112.26	122.60
1	f4	162	ARG	N-CA-C	10.34	122.55	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6n	29	GLU	N-CA-CB	-10.34	96.84	110.59
1	gS	26	VAL	N-CA-CB	10.34	121.99	110.51
1	4V	65	ALA	O-C-N	-10.34	110.36	122.15
1	6x	175	GLU	N-CA-C	10.34	122.14	111.07
1	7B	54	THR	O-C-N	-10.34	111.42	122.07
1	1p	15	ILE	N-CA-CB	10.34	122.30	110.82
1	ei	124	ILE	CA-C-O	-10.34	113.05	119.15
1	e2	21	ASN	CA-CB-CG	10.34	122.94	112.60
1	f1	200	THR	N-CA-C	10.34	122.13	111.07
1	fe	153	ILE	CA-C-O	10.34	131.63	120.57
1	fk	100	ARG	NE-CZ-NH1	10.34	131.84	121.50
1	hj	186	THR	N-CA-C	10.33	122.54	111.28
1	2g	5	ASN	CA-CB-CG	10.33	122.93	112.60
1	8k	169	TYR	N-CA-C	10.33	122.54	111.28
1	ak	82	ARG	NE-CZ-NH2	-10.33	109.90	119.20
1	2i	229	ARG	NE-CZ-NH1	10.33	131.83	121.50
1	p	195	ASN	CA-CB-CG	10.33	122.93	112.60
1	1G	136	LEU	CA-C-N	10.33	131.36	120.00
1	1G	136	LEU	C-N-CA	10.33	131.36	120.00
1	ig	48	THR	O-C-N	-10.33	110.65	121.60
1	iI	73	ILE	CA-C-N	10.33	134.53	120.38
1	iI	73	ILE	C-N-CA	10.33	134.53	120.38
1	6X	74	ASN	CA-CB-CG	-10.33	102.27	112.60
1	83	167	ARG	N-CA-C	10.33	122.54	111.28
1	4t	121	ASN	CB-CA-C	10.33	123.36	109.42
1	6J	82	ARG	NE-CZ-NH1	10.33	131.83	121.50
1	7t	162	ARG	NE-CZ-NH2	10.33	128.50	119.20
1	bf	18	ARG	NE-CZ-NH1	10.33	131.83	121.50
1	fA	206	GLY	O-C-N	-10.33	111.44	121.77
1	eo	195	ASN	CA-C-O	-10.33	109.43	120.17
1	C	50	GLN	N-CA-C	10.33	122.54	111.28
1	i0	37	ILE	N-CA-CB	10.32	117.44	110.52
1	7Y	18	ARG	N-CA-C	10.32	122.53	111.28
1	bb	113	GLU	CA-C-O	10.32	131.37	120.42
1	1t	37	ILE	O-C-N	-10.32	113.81	120.42
1	gz	162	ARG	NE-CZ-NH1	10.32	131.82	121.50
1	2m	5	ASN	CA-CB-CG	10.32	122.92	112.60
1	20	195	ASN	CA-C-O	-10.32	110.01	120.64
1	6W	226	HIS	CE1-NE2-CD2	-10.32	98.68	109.00
1	7X	196	PRO	CA-C-N	10.32	133.86	120.44
1	7X	196	PRO	C-N-CA	10.32	133.86	120.44
1	8d	9	GLN	OE1-CD-NE2	-10.32	112.28	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	26	VAL	CA-C-N	10.32	133.56	120.56
1	f9	26	VAL	C-N-CA	10.32	133.56	120.56
1	23	214	MET	CG-SD-CE	10.32	123.60	100.90
1	fj	58	THR	N-CA-C	-10.32	100.69	113.18
1	hl	204	ALA	N-CA-C	10.32	123.79	111.82
1	lI	139	ASN	CA-C-N	10.32	133.85	120.44
1	lI	139	ASN	C-N-CA	10.32	133.85	120.44
1	5k	101	GLY	CA-C-O	10.32	131.68	121.05
1	f1	214	MET	O-C-N	-10.32	111.44	122.07
1	gI	153	ILE	O-C-N	-10.31	110.55	122.62
1	h3	67	GLN	N-CA-C	10.31	122.52	111.28
1	3a	75	GLU	N-CA-C	10.31	123.60	111.02
1	7v	73	ILE	N-CA-C	10.31	121.14	110.62
1	bL	100	ARG	NE-CZ-NH2	-10.31	109.92	119.20
1	dx	224	PRO	CA-C-N	10.31	129.90	120.10
1	dx	224	PRO	C-N-CA	10.31	129.90	120.10
1	gz	162	ARG	NE-CZ-NH2	-10.31	109.92	119.20
1	k2	27	VAL	N-CA-C	10.31	121.14	110.62
1	kS	129	ILE	O-C-N	-10.31	111.81	121.91
1	eA	177	ALA	N-CA-C	10.31	123.64	110.24
1	jW	179	GLN	N-CA-C	10.31	122.10	111.07
1	lP	57	ASN	CA-C-N	10.31	134.09	120.28
1	lP	57	ASN	C-N-CA	10.31	134.09	120.28
1	aY	112	GLN	OE1-CD-NE2	-10.31	112.29	122.60
1	e0	115	ILE	CA-C-N	10.31	131.64	119.99
1	e0	115	ILE	C-N-CA	10.31	131.64	119.99
1	ek	24	VAL	N-CA-C	10.31	120.32	110.42
1	n	40	PHE	CA-C-N	10.31	134.09	120.28
1	n	40	PHE	C-N-CA	10.31	134.09	120.28
1	iq	50	GLN	OE1-CD-NE2	10.30	132.91	122.60
1	9z	173	ARG	N-CA-C	10.31	122.51	111.28
1	gc	110	THR	CA-C-N	10.30	134.09	120.28
1	gc	110	THR	C-N-CA	10.30	134.09	120.28
1	iJ	4	GLN	OE1-CD-NE2	-10.30	112.30	122.60
1	in	32	PHE	CA-CB-CG	-10.30	103.50	113.80
1	6R	121	ASN	CA-CB-CG	10.30	122.90	112.60
1	jM	111	LEU	N-CA-C	10.30	122.50	111.28
1	7G	180	GLU	CA-C-N	10.30	134.57	120.46
1	7G	180	GLU	C-N-CA	10.30	134.57	120.46
1	dR	160	PRO	N-CA-CB	-10.30	95.91	102.81
1	fn	214	MET	N-CA-C	10.30	122.09	111.07
1	jk	107	THR	N-CA-C	10.29	123.46	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k9	147	PRO	CA-C-N	10.29	135.41	120.90
1	k9	147	PRO	C-N-CA	10.29	135.41	120.90
1	20	171	THR	CA-C-N	10.29	134.44	120.44
1	20	171	THR	C-N-CA	10.29	134.44	120.44
1	4j	36	VAL	CA-C-N	10.29	130.31	120.43
1	4j	36	VAL	C-N-CA	10.29	130.31	120.43
1	jX	8	GLY	O-C-N	-10.29	112.90	122.47
1	lE	162	ARG	N-CA-C	10.29	123.78	111.33
1	4H	87	HIS	ND1-CE1-NE2	10.29	118.69	108.40
1	3i	162	ARG	N-CA-C	10.29	122.50	111.28
1	1E	124	ILE	O-C-N	-10.29	114.89	121.37
1	lO	16	SER	CA-C-O	-10.29	110.08	119.75
1	3Y	214	MET	O-C-N	-10.29	111.21	122.12
1	7e	42	ALA	N-CA-C	10.29	122.08	111.07
1	cV	58	THR	N-CA-C	10.29	123.78	111.33
1	gq	201	ILE	N-CA-C	10.29	121.16	110.36
1	4k	74	ASN	CA-CB-CG	-10.29	102.31	112.60
1	lf	16	SER	O-C-N	-10.29	112.95	121.38
1	hw	82	ARG	NE-CZ-NH1	10.28	131.78	121.50
1	82	204	ALA	O-C-N	10.29	133.20	122.09
1	ey	99	PRO	N-CA-C	10.28	126.33	110.80
1	fk	100	ARG	NE-CZ-NH2	-10.28	109.94	119.20
1	fW	53	ASN	CA-CB-CG	-10.28	102.32	112.60
1	1C	13	GLN	OE1-CD-NE2	-10.28	112.32	122.60
1	go	208	ALA	N-CA-C	10.28	122.49	111.28
1	iY	63	GLN	N-CA-C	10.28	122.49	111.28
1	5v	180	GLU	N-CA-C	10.28	122.49	111.28
1	aq	84	HIS	CG-CD2-NE2	10.28	117.48	107.20
1	dl	167	ARG	NE-CZ-NH2	10.28	128.45	119.20
1	hn	63	GLN	N-CA-C	10.28	123.53	111.71
1	gC	124	ILE	N-CA-C	-10.28	97.38	107.55
1	23	165	VAL	CA-C-N	10.28	134.05	120.28
1	23	165	VAL	C-N-CA	10.28	134.05	120.28
1	76	144	MET	N-CA-C	10.28	122.07	111.07
1	dt	183	ASN	CA-CB-CG	-10.28	102.32	112.60
1	A	171	THR	O-C-N	-10.28	111.22	122.12
1	K	124	ILE	N-CA-C	10.28	117.47	108.63
1	kJ	70	LYS	N-CA-C	10.28	122.48	111.28
1	lw	25	LYS	CA-C-N	10.28	133.51	120.56
1	lw	25	LYS	C-N-CA	10.28	133.51	120.56
1	6p	79	GLU	CA-C-N	10.28	135.07	120.79
1	6p	79	GLU	C-N-CA	10.28	135.07	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4W	37	ILE	O-C-N	-10.27	113.84	120.42
1	i0	170	LYS	N-CA-C	10.27	123.76	111.33
1	jF	162	ARG	NE-CZ-NH2	-10.27	109.95	119.20
1	cl	212	GLU	N-CA-C	10.27	123.44	111.11
1	d	124	ILE	O-C-N	-10.27	111.57	121.12
1	hA	7	GLN	N-CA-C	10.27	124.72	110.24
1	k6	212	GLU	CA-C-N	10.27	133.79	120.44
1	k6	212	GLU	C-N-CA	10.27	133.79	120.44
1	ik	106	GLY	CA-C-N	10.27	133.79	120.44
1	ik	106	GLY	C-N-CA	10.27	133.79	120.44
1	74	126	VAL	O-C-N	-10.27	111.53	121.90
1	7T	91	ILE	N-CA-C	10.27	120.18	110.53
1	bY	43	LEU	CA-C-O	10.27	131.70	120.10
1	hy	32	PHE	CA-CB-CG	-10.27	103.53	113.80
1	6k	79	GLU	CA-C-N	10.27	134.40	120.54
1	6k	79	GLU	C-N-CA	10.27	134.40	120.54
1	8t	55	MET	N-CA-C	10.27	122.47	111.28
1	9x	100	ARG	NE-CZ-NH1	10.27	131.77	121.50
1	jt	204	ALA	N-CA-C	10.27	122.47	111.28
1	eq	226	HIS	CA-CB-CG	10.27	124.06	113.80
1	l3	195	ASN	CA-C-N	10.26	130.44	119.05
1	l3	195	ASN	C-N-CA	10.26	130.44	119.05
1	li	135	ILE	N-CA-C	10.26	120.27	110.42
1	30	69	LEU	CA-C-N	10.26	134.03	120.28
1	30	69	LEU	C-N-CA	10.26	134.03	120.28
1	3L	8	GLY	CA-C-N	10.26	136.25	120.75
1	3L	8	GLY	C-N-CA	10.26	136.25	120.75
1	fA	63	GLN	N-CA-C	10.26	122.05	111.07
1	38	156	GLY	CA-C-N	10.26	129.92	119.56
1	38	156	GLY	C-N-CA	10.26	129.92	119.56
1	3W	216	THR	N-CA-C	10.26	122.46	111.28
1	bf	32	PHE	CA-CB-CG	-10.26	103.54	113.80
1	I	202	LEU	CA-C-O	10.26	131.30	120.42
1	gG	10	MET	N-CA-C	10.26	124.30	110.35
1	i3	37	ILE	O-C-N	-10.26	113.86	120.42
1	ia	186	THR	N-CA-C	10.26	122.46	111.28
1	k5	124	ILE	O-C-N	-10.26	114.91	121.37
1	3K	186	THR	N-CA-C	10.26	122.46	111.28
1	es	54	THR	CA-C-N	10.26	134.39	120.54
1	es	54	THR	C-N-CA	10.26	134.39	120.54
1	bD	193	ASN	CA-CB-CG	10.26	122.86	112.60
1	hJ	69	LEU	CA-C-N	10.25	134.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hJ	69	LEU	C-N-CA	10.25	134.02	120.28
1	j6	36	VAL	CA-C-N	10.25	130.27	120.43
1	j6	36	VAL	C-N-CA	10.25	130.27	120.43
1	4g	229	ARG	NE-CZ-NH1	10.25	131.75	121.50
1	9C	32	PHE	CA-CB-CG	-10.25	103.55	113.80
1	bj	171	THR	N-CA-C	10.25	122.45	111.28
1	2M	26	VAL	N-CA-C	10.25	121.08	110.62
1	6D	33	SER	CA-C-N	10.25	130.56	119.28
1	6D	33	SER	C-N-CA	10.25	130.56	119.28
1	dU	162	ARG	N-CA-C	10.25	123.73	111.33
1	V	215	MET	N-CA-C	10.25	122.04	111.07
1	iO	167	ARG	NE-CZ-NH2	10.25	128.42	119.20
1	kf	7	GLN	CA-C-N	10.25	132.00	120.42
1	kf	7	GLN	C-N-CA	10.25	132.00	120.42
1	ak	200	THR	CA-C-N	10.25	133.47	120.56
1	ak	200	THR	C-N-CA	10.25	133.47	120.56
1	gx	5	ASN	CA-CB-CG	10.24	122.84	112.60
1	8X	150	ILE	N-CA-C	10.24	122.30	110.62
1	cB	115	ILE	CA-C-N	10.24	131.31	119.94
1	cB	115	ILE	C-N-CA	10.24	131.31	119.94
1	1s	124	ILE	N-CA-C	-10.24	96.05	107.73
1	lw	5	ASN	CA-CB-CG	10.24	122.84	112.60
1	do	168	PHE	O-C-N	-10.24	111.44	122.09
1	h1	68	MET	CA-C-N	10.24	134.36	120.54
1	h1	68	MET	C-N-CA	10.24	134.36	120.54
1	8L	15	ILE	CA-C-N	10.24	134.39	120.67
1	8L	15	ILE	C-N-CA	10.24	134.39	120.67
1	f4	201	ILE	CA-C-N	10.24	135.02	120.28
1	f4	201	ILE	C-N-CA	10.24	135.02	120.28
1	jS	65	ALA	O-C-N	-10.24	111.27	122.12
1	57	100	ARG	NE-CZ-NH1	10.24	131.74	121.50
1	5z	58	THR	CA-C-N	10.24	135.57	122.37
1	5z	58	THR	C-N-CA	10.24	135.57	122.37
1	6u	114	GLN	N-CA-C	10.24	122.02	111.07
1	8F	37	ILE	O-C-N	-10.24	113.87	120.42
1	hy	47	ALA	CA-C-O	-10.23	109.38	121.05
1	jS	100	ARG	CA-C-N	10.23	131.49	120.03
1	jS	100	ARG	C-N-CA	10.23	131.49	120.03
1	b8	78	ALA	CA-C-N	10.23	133.99	120.28
1	k9	84	HIS	CA-C-N	10.23	130.34	119.90
1	k9	84	HIS	C-N-CA	10.23	130.34	119.90
1	2E	74	ASN	OD1-CG-ND2	-10.23	112.37	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8t	33	SER	O-C-N	-10.23	111.64	121.57
1	b8	78	ALA	C-N-CA	10.23	133.99	120.28
1	kH	197	ASP	CA-CB-CG	-10.23	102.37	112.60
1	4K	124	ILE	CA-C-O	-10.23	113.11	119.15
1	9d	150	ILE	O-C-N	-10.23	111.94	121.87
1	eZ	89	GLY	CA-C-N	10.23	130.30	119.76
1	eZ	89	GLY	C-N-CA	10.23	130.30	119.76
1	5h	86	VAL	O-C-N	-10.23	112.04	122.99
1	aA	100	ARG	NE-CZ-NH1	10.23	131.73	121.50
1	1N	99	PRO	N-CA-CB	10.23	110.08	103.23
1	kI	73	ILE	O-C-N	-10.23	111.95	121.87
1	eH	173	ARG	NE-CZ-NH2	10.23	128.41	119.20
1	fo	143	ARG	NE-CZ-NH1	10.23	131.73	121.50
1	9F	51	ASP	N-CA-C	10.23	122.01	111.07
1	a8	33	SER	O-C-N	-10.23	114.62	121.88
1	fT	165	VAL	CA-C-N	10.23	133.73	120.44
1	fT	165	VAL	C-N-CA	10.23	133.73	120.44
1	lf	146	SER	CA-C-N	10.22	130.03	119.19
1	lf	146	SER	C-N-CA	10.22	130.03	119.19
1	l6	124	ILE	CA-C-O	-10.22	111.74	119.20
1	h5	32	PHE	CA-CB-CG	-10.22	103.58	113.80
1	hz	41	SER	CA-C-N	10.22	133.73	120.44
1	hz	41	SER	C-N-CA	10.22	133.73	120.44
1	ig	18	ARG	NE-CZ-NH2	-10.22	110.00	119.20
1	5F	9	GLN	CA-C-N	10.22	136.54	121.31
1	5F	9	GLN	C-N-CA	10.22	136.54	121.31
1	9j	86	VAL	N-CA-C	10.22	123.17	109.37
1	cE	187	GLU	N-CA-C	10.22	122.01	111.07
1	ei	154	ARG	NE-CZ-NH2	-10.22	110.00	119.20
1	g1	76	GLU	CA-C-N	10.22	134.34	120.44
1	g1	76	GLU	C-N-CA	10.22	134.34	120.44
1	40	32	PHE	N-CA-C	10.22	125.77	110.64
1	jq	87	HIS	CA-CB-CG	10.22	124.02	113.80
1	4m	187	GLU	CA-C-N	10.22	134.60	122.44
1	4m	187	GLU	C-N-CA	10.22	134.60	122.44
1	8t	182	LYS	N-CA-C	10.22	122.42	111.28
1	i	51	ASP	CA-CB-CG	-10.22	102.38	112.60
1	iB	106	GLY	CA-C-O	10.21	130.36	119.02
1	lj	17	PRO	CA-C-N	10.21	133.97	120.28
1	lj	17	PRO	C-N-CA	10.21	133.97	120.28
1	5r	199	LYS	CA-C-N	10.21	133.72	120.44
1	5r	199	LYS	C-N-CA	10.21	133.72	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	63	203	LYS	N-CA-C	10.21	122.42	111.28
1	a7	209	ALA	N-CA-C	10.21	125.18	109.96
1	b5	119	THR	N-CA-C	10.21	122.41	111.28
1	gB	7	GLN	OE1-CD-NE2	-10.21	112.39	122.60
1	jY	37	ILE	N-CA-CB	10.21	118.42	110.45
1	6R	182	LYS	N-CA-C	10.21	123.37	111.11
1	1J	143	ARG	O-C-N	-10.21	110.51	122.15
1	8R	91	ILE	N-CA-C	-10.21	102.75	112.96
1	eW	156	GLY	O-C-N	-10.21	113.23	122.42
1	jk	167	ARG	NE-CZ-NH1	10.21	131.71	121.50
1	c8	36	VAL	N-CA-C	10.21	120.22	110.42
1	fr	62	HIS	CA-CB-CG	-10.21	103.59	113.80
1	7g	144	MET	N-CA-C	10.21	122.41	111.28
1	hr	197	ASP	CA-CB-CG	10.20	122.80	112.60
1	hG	36	VAL	N-CA-C	10.21	121.03	110.62
1	2s	57	ASN	CA-CB-CG	-10.21	102.39	112.60
1	48	115	ILE	CA-C-N	10.20	131.27	119.94
1	48	115	ILE	C-N-CA	10.20	131.27	119.94
1	8x	229	ARG	NE-CZ-NH2	-10.21	110.02	119.20
1	9J	197	ASP	CA-CB-CG	10.21	122.81	112.60
1	jD	82	ARG	NE-CZ-NH2	-10.20	110.02	119.20
1	l1	117	TRP	N-CA-C	10.20	122.40	111.28
1	3Q	132	ARG	NE-CZ-NH2	-10.20	110.02	119.20
1	bD	135	ILE	O-C-N	-10.20	111.97	121.87
1	bF	36	VAL	CA-C-N	10.20	128.49	120.33
1	bF	36	VAL	C-N-CA	10.20	128.49	120.33
1	lf	195	ASN	CA-CB-CG	10.20	122.80	112.60
1	2X	213	GLU	N-CA-C	10.20	122.40	111.28
1	3r	217	ALA	N-CA-C	10.20	124.00	110.53
1	6N	82	ARG	NE-CZ-NH1	10.20	131.70	121.50
1	7f	221	VAL	CA-C-N	10.20	131.56	120.44
1	7f	221	VAL	C-N-CA	10.20	131.56	120.44
1	9k	95	GLN	OE1-CD-NE2	-10.20	112.40	122.60
1	gI	37	ILE	O-C-N	-10.20	113.89	120.42
1	kD	82	ARG	NE-CZ-NH2	10.20	128.38	119.20
1	3q	14	ALA	N-CA-C	10.20	123.50	110.24
1	4B	31	ALA	N-CA-C	10.20	122.40	111.28
1	7h	152	ASP	CA-CB-CG	-10.20	102.40	112.60
1	c7	23	TRP	O-C-N	-10.20	111.31	122.12
1	d7	86	VAL	N-CA-CB	10.20	122.22	110.49
1	9S	162	ARG	NE-CZ-NH1	10.20	131.70	121.50
1	lD	82	ARG	NE-CZ-NH2	10.20	128.38	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	127	GLY	CA-C-N	10.20	133.69	120.44
1	38	127	GLY	C-N-CA	10.20	133.69	120.44
1	6L	226	HIS	CA-CB-CG	10.19	123.99	113.80
1	cZ	62	HIS	CA-CB-CG	-10.20	103.61	113.80
1	d5	193	ASN	CA-CB-CG	-10.20	102.40	112.60
1	kJ	201	ILE	N-CA-C	10.19	120.21	110.42
1	dk	37	ILE	O-C-N	-10.19	113.90	120.42
1	l4	173	ARG	NE-CZ-NH1	10.19	131.69	121.50
1	54	122	PRO	CA-C-N	10.19	130.26	119.76
1	54	122	PRO	C-N-CA	10.19	130.26	119.76
1	6v	195	ASN	O-C-N	-10.19	113.02	121.38
1	c3	154	ARG	NE-CZ-NH2	10.19	128.37	119.20
1	iF	194	ALA	N-CA-C	10.19	123.78	110.43
1	jy	162	ARG	NE-CZ-NH2	10.19	128.37	119.20
1	4B	34	PRO	CA-C-N	10.19	135.80	120.31
1	4B	34	PRO	C-N-CA	10.19	135.80	120.31
1	2a	34	PRO	CA-C-N	10.19	135.80	120.31
1	2a	34	PRO	C-N-CA	10.19	135.80	120.31
1	3G	54	THR	N-CA-C	10.19	122.39	111.28
1	7B	126	VAL	N-CA-C	10.19	121.01	110.62
1	fC	132	ARG	NE-CZ-NH2	-10.19	110.03	119.20
1	gT	5	ASN	OD1-CG-ND2	-10.19	112.41	122.60
1	gX	141	ILE	N-CA-C	10.19	120.20	110.42
1	iz	120	HIS	CE1-NE2-CD2	-10.18	98.82	109.00
1	ku	113	GLU	N-CA-C	10.18	122.46	111.36
1	34	33	SER	CA-C-O	-10.18	110.97	120.34
1	5K	21	ASN	N-CA-C	10.18	122.38	111.28
1	bf	84	HIS	CA-C-O	10.18	127.53	119.59
1	ek	28	GLU	N-CA-C	10.18	121.97	111.07
1	gn	113	GLU	N-CA-C	10.18	121.96	111.07
1	6w	121	ASN	CA-C-O	-10.18	111.65	119.59
1	8P	136	LEU	CA-C-O	10.18	131.34	120.55
1	9Y	103	ASP	CA-C-O	10.18	131.21	120.42
1	cW	173	ARG	NE-CZ-NH1	10.18	131.68	121.50
1	ec	181	VAL	CA-C-N	10.18	133.92	120.28
1	ec	181	VAL	C-N-CA	10.18	133.92	120.28
1	61	84	HIS	O-C-N	-10.18	112.65	121.20
1	fq	162	ARG	CA-C-N	10.18	134.75	120.29
1	fq	162	ARG	C-N-CA	10.18	134.75	120.29
1	1Z	183	ASN	CA-CB-CG	-10.18	102.42	112.60
1	3o	124	ILE	O-C-N	-10.18	112.35	121.61
1	6a	57	ASN	CA-CB-CG	-10.18	102.42	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	15	ILE	O-C-N	-10.18	112.29	122.67
1	lF	189	LEU	N-CA-C	10.17	122.37	111.28
1	2i	146	SER	CA-C-N	10.17	130.26	119.78
1	2i	146	SER	C-N-CA	10.17	130.26	119.78
1	7m	100	ARG	CA-C-N	10.17	131.49	119.99
1	7m	100	ARG	C-N-CA	10.17	131.49	119.99
1	iR	211	LEU	N-CA-C	10.17	123.41	111.71
1	jp	195	ASN	N-CA-C	10.17	121.30	109.60
1	jM	127	GLY	CA-C-N	10.17	133.66	120.44
1	jM	127	GLY	C-N-CA	10.17	133.66	120.44
1	5u	149	SER	N-CA-CB	10.17	127.68	110.49
1	7v	229	ARG	NE-CZ-NH1	10.17	131.67	121.50
1	5J	113	GLU	CA-C-N	10.17	133.66	120.44
1	5J	113	GLU	C-N-CA	10.17	133.66	120.44
1	ax	143	ARG	N-CA-C	10.17	123.31	111.11
1	gm	169	TYR	N-CA-C	10.16	122.36	111.28
1	5i	154	ARG	NE-CZ-NH2	-10.16	110.05	119.20
1	7g	132	ARG	N-CA-C	10.16	122.36	111.28
1	iw	87	HIS	CE1-NE2-CD2	-10.16	98.84	109.00
1	4R	20	LEU	N-CA-C	10.16	122.36	111.28
1	k2	173	ARG	NE-CZ-NH2	-10.16	110.06	119.20
1	29	170	LYS	N-CA-C	10.16	122.36	111.28
1	1h	57	ASN	OD1-CG-ND2	-10.16	112.44	122.60
1	gc	121	ASN	CA-CB-CG	-10.16	102.44	112.60
1	kL	197	ASP	CA-CB-CG	-10.16	102.44	112.60
1	29	53	ASN	OD1-CG-ND2	-10.16	112.44	122.60
1	dr	66	MET	O-C-N	-10.16	111.36	122.12
1	jF	173	ARG	N-CA-C	10.15	122.35	111.28
1	4o	221	VAL	CA-C-N	10.15	131.25	119.98
1	4o	221	VAL	C-N-CA	10.15	131.25	119.98
1	6Y	36	VAL	CA-C-N	10.15	128.45	120.33
1	6Y	36	VAL	C-N-CA	10.15	128.45	120.33
1	gT	106	GLY	CA-C-N	10.15	134.29	120.38
1	gT	106	GLY	C-N-CA	10.15	134.29	120.38
1	hv	37	ILE	O-C-N	-10.15	113.92	120.42
1	iz	120	HIS	ND1-CE1-NE2	10.15	118.55	108.40
1	3t	166	ASP	N-CA-C	10.15	121.93	111.07
1	4C	217	ALA	N-CA-C	10.15	123.73	110.43
1	4F	214	MET	N-CA-C	10.15	123.61	111.33
1	ds	37	ILE	N-CA-CB	10.15	116.89	110.50
1	eq	162	ARG	N-CA-C	10.15	122.34	111.28
1	gi	82	ARG	NH1-CZ-NH2	-10.15	106.11	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gs	57	ASN	CA-CB-CG	-10.15	102.45	112.60
1	gX	162	ARG	NE-CZ-NH1	10.15	131.65	121.50
1	bv	36	VAL	CA-C-N	10.15	128.45	120.33
1	bv	36	VAL	C-N-CA	10.15	128.45	120.33
1	3E	37	ILE	CA-C-O	-10.15	110.22	118.85
1	8L	18	ARG	CD-NE-CZ	10.15	138.60	124.40
1	dg	169	TYR	N-CA-C	10.15	122.34	111.28
1	dv	146	SER	O-C-N	-10.15	116.86	121.53
1	7t	180	GLU	CA-C-N	10.14	133.34	120.56
1	7t	180	GLU	C-N-CA	10.14	133.34	120.56
1	8e	37	ILE	CA-C-O	-10.14	110.23	118.85
1	44	9	GLN	CA-C-N	10.14	135.11	120.71
1	44	9	GLN	C-N-CA	10.14	135.11	120.71
1	4k	32	PHE	CA-CB-CG	-10.14	103.66	113.80
1	as	7	GLN	CA-C-N	10.14	138.42	120.77
1	as	7	GLN	C-N-CA	10.14	138.42	120.77
1	f8	168	PHE	CA-CB-CG	10.14	123.94	113.80
1	3l	7	GLN	OE1-CD-NE2	-10.14	112.46	122.60
1	3p	132	ARG	NE-CZ-NH2	-10.14	110.07	119.20
1	5U	37	ILE	O-C-N	-10.14	113.93	120.42
1	8f	36	VAL	N-CA-C	10.14	121.01	110.36
1	6Z	26	VAL	N-CA-C	10.14	120.15	110.42
1	b6	154	ARG	NE-CZ-NH2	-10.14	110.08	119.20
1	gz	198	CYS	CA-C-N	10.13	133.86	120.28
1	gz	198	CYS	C-N-CA	10.13	133.86	120.28
1	ct	191	VAL	CA-C-N	10.14	133.86	120.28
1	ct	191	VAL	C-N-CA	10.14	133.86	120.28
1	gU	162	ARG	NE-CZ-NH2	-10.13	110.08	119.20
1	1h	9	GLN	OE1-CD-NE2	-10.13	112.47	122.60
1	hp	23	TRP	N-CA-C	10.13	121.91	111.07
1	hs	132	ARG	NE-CZ-NH1	10.13	131.63	121.50
1	1V	133	TRP	CA-C-O	10.13	131.14	120.70
1	2I	145	TYR	CA-C-N	10.13	135.39	121.20
1	2I	145	TYR	C-N-CA	10.13	135.39	121.20
1	4M	22	ALA	CA-C-O	10.13	131.29	120.55
1	a7	199	LYS	N-CA-C	10.13	122.32	111.28
1	cJ	170	LYS	CA-C-O	10.13	131.29	120.55
1	ej	114	GLN	N-CA-C	10.13	123.27	111.11
1	dZ	164	TYR	N-CA-C	10.13	121.91	111.07
1	fC	91	ILE	N-CA-C	10.13	122.98	109.21
1	N	52	LEU	CA-C-N	10.13	133.61	120.44
1	N	52	LEU	C-N-CA	10.13	133.61	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hG	32	PHE	CA-CB-CG	-10.12	103.68	113.80
1	2M	197	ASP	CA-C-N	10.12	133.85	120.28
1	2M	197	ASP	C-N-CA	10.12	133.85	120.28
1	34	92	GLU	CA-C-N	10.12	130.75	119.92
1	34	92	GLU	C-N-CA	10.12	130.75	119.92
1	3D	5	ASN	CA-CB-CG	10.12	122.72	112.60
1	cW	124	ILE	CA-C-O	-10.12	113.45	119.12
1	1h	32	PHE	CA-CB-CG	-10.12	103.68	113.80
1	j1	111	LEU	N-CA-C	10.12	122.31	111.28
1	l0	139	ASN	N-CA-C	10.12	122.31	111.28
1	40	126	VAL	N-CA-C	10.12	120.94	110.62
1	dK	124	ILE	O-C-N	-10.12	115.00	121.37
1	eR	132	ARG	NE-CZ-NH1	10.12	131.62	121.50
1	eo	195	ASN	CA-CB-CG	10.12	122.72	112.60
1	3g	143	ARG	NE-CZ-NH2	-10.11	110.10	119.20
1	9L	98	GLU	O-C-N	-10.11	112.30	121.30
1	a4	144	MET	N-CA-C	10.12	122.31	111.28
1	h1	84	HIS	O-C-N	-10.11	113.04	121.23
1	59	102	SER	CA-C-N	10.11	134.00	120.65
1	59	102	SER	C-N-CA	10.11	134.00	120.65
1	90	102	SER	CA-C-N	10.11	133.83	120.28
1	90	102	SER	C-N-CA	10.11	133.83	120.28
1	eg	53	ASN	CA-C-N	10.11	134.23	120.38
1	eg	53	ASN	C-N-CA	10.11	134.23	120.38
1	7p	74	ASN	CA-CB-CG	-10.11	102.49	112.60
1	jM	33	SER	O-C-N	-10.11	114.70	121.88
1	7V	50	GLN	CA-C-N	10.11	134.65	120.29
1	7V	50	GLN	C-N-CA	10.11	134.65	120.29
1	dt	28	GLU	N-CA-C	10.11	122.30	111.28
1	dM	82	ARG	NE-CZ-NH1	10.11	131.61	121.50
1	f1	201	ILE	CA-C-N	10.11	133.58	120.44
1	i1	217	ALA	CA-C-N	10.11	136.44	122.19
1	i1	217	ALA	C-N-CA	10.11	136.44	122.19
1	kT	156	GLY	CA-C-N	10.11	129.90	119.19
1	kT	156	GLY	C-N-CA	10.11	129.90	119.19
1	39	224	PRO	CA-C-O	-10.11	110.11	121.43
1	bp	183	ASN	CA-CB-CG	10.11	122.71	112.60
1	aj	226	HIS	CE1-NE2-CD2	-10.11	98.89	109.00
1	bD	57	ASN	CA-C-N	10.11	133.82	120.28
1	bD	57	ASN	C-N-CA	10.11	133.82	120.28
1	f1	201	ILE	C-N-CA	10.11	133.58	120.44
1	jN	173	ARG	NE-CZ-NH1	10.10	131.60	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5B	226	HIS	CA-CB-CG	10.10	123.90	113.80
1	l9	170	LYS	CA-C-N	10.10	133.57	120.44
1	l9	170	LYS	C-N-CA	10.10	133.57	120.44
1	6h	40	PHE	N-CA-C	10.10	122.29	111.28
1	73	121	ASN	O-C-N	-10.10	111.68	121.38
1	7q	138	LEU	O-C-N	-10.10	111.41	122.12
1	dk	214	MET	N-CA-C	10.10	121.88	111.07
1	bf	112	GLN	OE1-CD-NE2	-10.10	112.50	122.60
1	D	120	HIS	CA-CB-CG	10.10	123.90	113.80
1	66	57	ASN	N-CA-C	10.10	122.29	111.28
1	b2	139	ASN	OD1-CG-ND2	-10.10	112.50	122.60
1	bP	139	ASN	CA-CB-CG	-10.10	102.50	112.60
1	hP	115	ILE	CA-C-N	10.10	131.11	120.00
1	hP	115	ILE	C-N-CA	10.10	131.11	120.00
1	6I	20	LEU	CA-C-N	10.10	133.81	120.28
1	6I	20	LEU	C-N-CA	10.10	133.81	120.28
1	6K	115	ILE	CA-C-N	10.10	131.34	120.03
1	6K	115	ILE	C-N-CA	10.10	131.34	120.03
1	8B	220	GLY	N-CA-C	10.10	125.17	112.14
1	h7	188	THR	CA-C-N	10.10	135.96	120.82
1	h7	188	THR	C-N-CA	10.10	135.96	120.82
1	iQ	73	ILE	N-CA-C	10.10	120.92	110.62
1	33	87	HIS	CA-CB-CG	-10.10	103.70	113.80
1	8j	126	VAL	N-CA-C	10.10	120.92	110.62
1	7B	183	ASN	N-CA-C	10.10	122.28	111.28
1	93	167	ARG	CA-C-O	10.10	131.10	120.70
1	s	169	TYR	N-CA-C	10.10	122.28	111.28
1	it	18	ARG	NE-CZ-NH2	-10.09	110.11	119.20
1	jx	78	ALA	CA-C-N	10.09	133.80	120.28
1	jx	78	ALA	C-N-CA	10.09	133.80	120.28
1	cr	98	GLU	CA-C-O	-10.09	111.38	119.66
1	hi	181	VAL	O-C-N	-10.09	112.08	121.87
1	ki	177	ALA	CA-C-N	10.09	135.04	120.71
1	ki	177	ALA	C-N-CA	10.09	135.04	120.71
1	ek	195	ASN	CA-CB-CG	10.09	122.69	112.60
1	fP	84	HIS	CE1-NE2-CD2	-10.09	98.91	109.00
1	g1	71	GLU	N-CA-C	10.09	121.86	111.07
1	g3	25	LYS	CA-C-N	10.09	133.27	120.56
1	g3	25	LYS	C-N-CA	10.09	133.27	120.56
1	ga	156	GLY	O-C-N	-10.09	111.68	121.77
1	ly	159	GLU	O-C-N	-10.09	110.73	121.42
1	7J	105	ALA	CA-C-O	10.09	131.36	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gk	120	HIS	CB-CG-CD2	-10.09	118.09	131.20
1	h3	124	ILE	N-CA-C	-10.09	99.96	108.63
1	96	229	ARG	NE-CZ-NH1	10.09	131.59	121.50
1	bd	36	VAL	CA-C-N	10.09	128.40	120.33
1	bd	36	VAL	C-N-CA	10.09	128.40	120.33
1	dR	84	HIS	CE1-NE2-CD2	-10.09	98.91	109.00
1	1C	16	SER	CA-C-O	-10.08	111.39	119.66
1	3V	226	HIS	CA-CB-CG	10.08	123.88	113.80
1	6h	97	ARG	NE-CZ-NH1	10.08	131.58	121.50
1	8R	230	VAL	O-C-N	-10.08	112.39	122.67
1	1a	152	ASP	CA-CB-CG	-10.08	102.52	112.60
1	hm	188	THR	CA-C-O	10.08	126.84	119.68
1	3g	76	GLU	N-CA-C	10.08	121.86	111.07
1	6C	163	ASP	CA-CB-CG	10.08	122.68	112.60
1	7F	28	GLU	N-CA-C	10.08	123.30	111.71
1	hC	15	ILE	O-C-N	-10.08	112.39	122.67
1	ks	155	GLN	OE1-CD-NE2	-10.08	112.52	122.60
1	lC	198	CYS	CA-C-N	10.08	134.79	120.28
1	lC	198	CYS	C-N-CA	10.08	134.79	120.28
1	6b	197	ASP	CA-C-N	10.08	133.78	120.28
1	6b	197	ASP	C-N-CA	10.08	133.78	120.28
1	eU	126	VAL	N-CA-C	10.08	120.90	110.62
1	3E	229	ARG	CA-C-N	10.08	134.00	120.50
1	3E	229	ARG	C-N-CA	10.08	134.00	120.50
1	54	10	MET	N-CA-C	10.08	125.11	110.10
1	12	132	ARG	NE-CZ-NH2	-10.08	110.13	119.20
1	aQ	6	LEU	N-CA-C	10.08	121.85	111.07
1	l3	36	VAL	CA-C-N	10.07	128.39	120.33
1	l3	36	VAL	C-N-CA	10.07	128.39	120.33
1	P	195	ASN	OD1-CG-ND2	-10.07	112.53	122.60
1	au	163	ASP	CA-CB-CG	10.07	122.67	112.60
1	aN	91	ILE	O-C-N	-10.07	112.36	122.23
1	fs	204	ALA	N-CA-C	10.07	122.26	111.28
1	U	36	VAL	N-CA-C	10.07	120.09	110.42
1	ha	195	ASN	CA-C-N	10.07	132.43	119.84
1	ha	195	ASN	C-N-CA	10.07	132.43	119.84
1	in	162	ARG	N-CA-C	10.07	121.85	111.07
1	iy	150	ILE	N-CA-C	-10.07	102.89	112.96
1	kJ	98	GLU	CA-C-N	10.07	130.15	119.78
1	kJ	98	GLU	C-N-CA	10.07	130.15	119.78
1	2B	72	THR	N-CA-C	10.07	122.26	111.28
1	bg	86	VAL	O-C-N	-10.07	112.25	122.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gV	68	MET	CA-C-N	10.07	133.77	120.28
1	gV	68	MET	C-N-CA	10.07	133.77	120.28
1	1R	114	GLN	N-CA-C	10.07	122.34	111.36
1	kJ	99	PRO	N-CA-CB	10.07	112.11	103.35
1	5d	127	GLY	N-CA-C	10.07	124.18	112.50
1	5x	75	GLU	N-CA-C	10.07	121.84	111.07
1	i7	59	VAL	N-CA-CB	10.07	121.99	110.82
1	3I	156	GLY	O-C-N	-10.07	111.70	121.77
1	4T	20	LEU	N-CA-C	10.07	123.51	111.33
1	9o	130	TYR	CA-C-N	10.07	133.53	120.44
1	9o	130	TYR	C-N-CA	10.07	133.53	120.44
1	dK	69	LEU	N-CA-C	10.07	121.84	111.07
1	2R	37	ILE	O-C-N	-10.06	113.98	120.42
1	8O	107	THR	N-CA-C	10.06	122.25	111.28
1	bf	158	LYS	CA-C-O	10.06	131.97	119.59
1	5C	37	ILE	CB-CA-C	-10.06	103.68	114.35
1	c8	173	ARG	CA-C-N	10.06	133.52	120.44
1	c8	173	ARG	C-N-CA	10.06	133.52	120.44
1	K	53	ASN	O-C-N	-10.06	111.45	122.12
1	jC	47	ALA	O-C-N	-10.06	111.59	122.96
1	3s	204	ALA	CA-C-N	10.06	133.76	120.28
1	3s	204	ALA	C-N-CA	10.06	133.76	120.28
1	3L	133	TRP	CA-C-N	10.06	133.24	120.56
1	3L	133	TRP	C-N-CA	10.06	133.24	120.56
1	cF	12	HIS	CA-CB-CG	10.06	123.86	113.80
1	i6	100	ARG	NE-CZ-NH2	-10.06	110.15	119.20
1	9s	225	GLY	N-CA-C	10.06	123.50	111.93
1	19	5	ASN	CA-CB-CG	-10.06	102.54	112.60
1	cE	227	LYS	O-C-N	-10.06	112.70	123.26
1	dI	192	GLN	N-CA-C	10.06	122.24	111.28
1	h2	41	SER	CA-C-N	10.05	133.75	120.28
1	h2	41	SER	C-N-CA	10.05	133.75	120.28
1	3v	190	LEU	O-C-N	-10.05	111.63	122.09
1	9Z	146	SER	N-CA-C	10.05	121.94	109.57
1	ah	144	MET	N-CA-C	10.05	122.24	111.28
1	cI	66	MET	N-CA-C	10.05	122.24	111.28
1	eH	100	ARG	CA-C-N	10.05	131.14	119.98
1	eH	100	ARG	C-N-CA	10.05	131.14	119.98
1	gq	121	ASN	N-CA-C	10.05	122.41	109.64
1	iU	36	VAL	CA-C-N	10.05	126.57	120.24
1	iU	36	VAL	C-N-CA	10.05	126.57	120.24
1	4b	57	ASN	CA-CB-CG	-10.05	102.55	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7i	39	MET	N-CA-C	10.05	122.23	111.28
1	8M	22	ALA	N-CA-C	10.05	121.83	111.07
1	2a	120	HIS	CG-CD2-NE2	10.05	117.25	107.20
1	bj	132	ARG	N-CA-C	10.05	122.23	111.28
1	cn	112	GLN	CA-C-O	-10.05	109.90	120.55
1	7D	33	SER	CA-C-O	-10.05	111.10	120.34
1	ak	206	GLY	O-C-N	10.05	131.82	121.77
1	1v	33	SER	O-C-N	-10.05	111.87	121.72
1	hm	115	ILE	CA-C-N	10.04	131.09	119.94
1	hm	115	ILE	C-N-CA	10.04	131.09	119.94
1	i3	168	PHE	CA-CB-CG	-10.04	103.76	113.80
1	iK	65	ALA	CA-C-O	10.04	131.07	120.42
1	3O	161	PHE	CA-CB-CG	-10.04	103.75	113.80
1	5s	146	SER	CA-C-O	-10.04	112.22	120.26
1	1x	111	LEU	N-CA-C	10.04	123.48	111.33
1	fC	84	HIS	CA-CB-CG	-10.04	103.76	113.80
1	0	192	GLN	OE1-CD-NE2	-10.04	112.56	122.60
1	j6	53	ASN	CA-CB-CG	-10.04	102.56	112.60
1	1x	53	ASN	CA-C-N	10.04	133.50	120.44
1	je	63	GLN	N-CA-C	10.04	122.22	111.28
1	k6	195	ASN	CB-CA-C	10.04	126.03	109.56
1	5n	18	ARG	NE-CZ-NH1	10.04	131.54	121.50
1	6k	206	GLY	O-C-N	-10.04	111.73	121.77
1	74	193	ASN	CA-CB-CG	10.04	122.64	112.60
1	bx	146	SER	CA-C-O	-10.04	110.35	119.59
1	1x	53	ASN	C-N-CA	10.04	133.50	120.44
1	61	182	LYS	CA-C-N	10.04	133.49	120.44
1	61	182	LYS	C-N-CA	10.04	133.49	120.44
1	9B	87	HIS	CA-CB-CG	10.04	123.84	113.80
1	bQ	42	ALA	O-C-N	-10.04	111.65	122.09
1	4M	81	ASP	N-CA-C	10.04	121.81	111.07
1	94	84	HIS	CB-CG-CD2	-10.04	118.15	131.20
1	ab	182	LYS	N-CA-C	10.04	122.22	111.28
1	gO	179	GLN	N-CA-C	10.04	122.22	111.28
1	29	159	GLU	O-C-N	-10.04	112.23	121.66
1	lN	132	ARG	NE-CZ-NH2	10.04	128.23	119.20
1	fc	115	ILE	CA-C-N	10.04	131.33	119.99
1	fc	115	ILE	C-N-CA	10.04	131.33	119.99
1	h6	139	ASN	CA-C-N	10.03	133.48	120.44
1	h6	139	ASN	C-N-CA	10.03	133.48	120.44
1	kw	161	PHE	N-CA-C	10.03	123.15	111.11
1	3b	37	ILE	CA-C-N	10.03	129.79	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3b	37	ILE	C-N-CA	10.03	129.79	118.85
1	iU	42	ALA	CA-C-O	10.03	131.18	120.55
1	3k	206	GLY	CA-C-N	10.03	129.65	119.82
1	3k	206	GLY	C-N-CA	10.03	129.65	119.82
1	aM	26	VAL	N-CA-C	10.03	120.85	110.72
1	ia	229	ARG	NE-CZ-NH2	-10.03	110.17	119.20
1	j8	87	HIS	CA-CB-CG	-10.03	103.77	113.80
1	2K	34	PRO	CA-C-N	10.03	134.72	120.28
1	2K	34	PRO	C-N-CA	10.03	134.72	120.28
1	bk	100	ARG	NE-CZ-NH1	10.03	131.53	121.50
1	jy	152	ASP	CA-CB-CG	-10.03	102.57	112.60
1	hc	156	GLY	O-C-N	-10.03	111.75	121.77
1	kX	180	GLU	O-C-N	-10.03	111.49	122.12
1	6s	77	ALA	N-CA-C	10.03	122.21	111.28
1	7c	136	LEU	CA-C-N	10.03	131.03	120.00
1	7c	136	LEU	C-N-CA	10.03	131.03	120.00
1	8a	67	GLN	O-C-N	-10.03	111.66	122.09
1	aD	21	ASN	CA-C-N	10.03	133.47	120.44
1	aD	21	ASN	C-N-CA	10.03	133.47	120.44
1	bL	120	HIS	N-CA-C	10.03	123.57	110.43
1	11	75	GLU	CA-C-O	-10.03	110.29	120.82
1	f	123	PRO	CA-C-N	10.03	129.81	122.59
1	f	123	PRO	C-N-CA	10.03	129.81	122.59
1	2	124	ILE	CA-C-O	-10.03	111.63	119.25
1	9C	80	TRP	O-C-N	-10.02	111.50	122.12
1	aD	37	ILE	CA-C-O	-10.02	111.97	118.69
1	1X	194	ALA	CA-C-N	10.02	135.04	120.51
1	1X	194	ALA	C-N-CA	10.02	135.04	120.51
1	2D	161	PHE	N-CA-C	10.02	121.79	111.07
1	90	213	GLU	CA-C-N	10.02	133.71	120.28
1	75	154	ARG	NE-CZ-NH2	-10.02	110.18	119.20
1	79	72	THR	N-CA-C	10.02	121.79	111.07
1	90	213	GLU	C-N-CA	10.02	133.71	120.28
1	hZ	89	GLY	CA-C-N	10.02	130.11	119.89
1	hZ	89	GLY	C-N-CA	10.02	130.11	119.89
1	5i	159	GLU	O-C-N	-10.02	111.86	121.18
1	jZ	11	VAL	O-C-N	-10.02	112.58	123.20
1	4N	143	ARG	NE-CZ-NH1	10.02	131.52	121.50
1	8P	57	ASN	CA-C-N	10.02	133.71	120.28
1	8P	57	ASN	C-N-CA	10.02	133.71	120.28
1	au	37	ILE	N-CA-CB	10.02	116.81	110.50
1	c5	92	GLU	O-C-N	-10.02	112.38	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ck	23	TRP	N-CA-C	10.02	121.79	111.07
1	f4	229	ARG	NE-CZ-NH1	10.02	131.52	121.50
1	1F	27	VAL	CA-C-N	10.02	133.87	120.65
1	1F	27	VAL	C-N-CA	10.02	133.87	120.65
1	l7	124	ILE	O-C-N	-10.02	113.65	121.46
1	eU	36	VAL	CA-C-N	10.02	128.34	120.33
1	eU	36	VAL	C-N-CA	10.02	128.34	120.33
1	9J	82	ARG	NE-CZ-NH2	-10.01	110.19	119.20
1	2M	50	GLN	OE1-CD-NE2	-10.01	112.59	122.60
1	5c	53	ASN	CA-CB-CG	10.01	122.61	112.60
1	5u	230	VAL	CA-C-O	-10.01	113.77	121.68
1	72	115	ILE	CA-C-N	10.01	131.09	119.98
1	72	115	ILE	C-N-CA	10.01	131.09	119.98
1	7a	83	LEU	N-CA-C	10.01	122.27	111.36
1	1Z	87	HIS	CA-CB-CG	-10.01	103.79	113.80
1	l0	167	ARG	NE-CZ-NH1	10.01	131.51	121.50
1	9O	53	ASN	CA-CB-CG	-10.01	102.59	112.60
1	bo	204	ALA	N-CA-C	10.01	122.19	111.28
1	gX	228	ALA	O-C-N	-10.01	110.50	122.81
1	ig	228	ALA	O-C-N	-10.01	112.27	123.48
1	il	100	ARG	NE-CZ-NH1	10.01	131.51	121.50
1	lF	121	ASN	CA-C-O	-10.01	109.94	119.55
1	ar	182	LYS	O-C-N	-10.01	111.51	122.12
1	2P	67	GLN	CA-C-N	10.00	133.69	120.28
1	2P	67	GLN	C-N-CA	10.00	133.69	120.28
1	h6	129	ILE	O-C-N	-10.00	112.11	121.91
1	lM	163	ASP	CA-C-N	10.00	133.68	120.28
1	lM	163	ASP	C-N-CA	10.00	133.68	120.28
1	4V	84	HIS	ND1-CE1-NE2	10.00	118.40	108.40
1	8a	65	ALA	CA-C-N	10.00	133.68	120.28
1	8a	65	ALA	C-N-CA	10.00	133.68	120.28
1	2	81	ASP	CA-CB-CG	10.00	122.60	112.60
1	fg	22	ALA	N-CA-C	10.00	123.43	111.33
1	gT	92	GLU	CA-C-O	-10.00	111.92	119.32
1	i6	143	ARG	NE-CZ-NH1	10.00	131.50	121.50
1	1Q	36	VAL	O-C-N	-10.00	111.77	121.87
1	u	32	PHE	CA-C-O	10.00	131.64	120.84
1	9j	25	LYS	O-C-N	-10.00	111.52	122.12
1	dg	126	VAL	CA-C-N	10.00	131.08	119.98
1	dg	126	VAL	C-N-CA	10.00	131.08	119.98
1	ec	176	GLN	CA-C-N	10.00	135.85	120.75
1	ec	176	GLN	C-N-CA	10.00	135.85	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	44	5	ASN	CA-CB-CG	-10.00	102.60	112.60
1	4z	55	MET	N-CA-C	10.00	123.11	111.11
1	4M	35	GLU	N-CA-C	10.00	122.18	111.28
1	56	173	ARG	CA-C-N	10.00	134.08	120.38
1	56	173	ARG	C-N-CA	10.00	134.08	120.38
1	6A	62	HIS	CA-CB-CG	10.00	123.80	113.80
1	6U	53	ASN	OD1-CG-ND2	-10.00	112.60	122.60
1	bq	139	ASN	CA-C-O	10.00	131.68	119.38
1	bC	169	TYR	N-CA-C	10.00	122.18	111.28
1	c6	187	GLU	N-CA-C	10.00	121.77	111.07
1	he	2	ILE	O-C-N	-9.99	111.64	122.83
1	j7	25	LYS	N-CA-C	9.99	122.17	111.28
1	eD	23	TRP	N-CA-C	9.99	123.21	111.02
1	1O	37	ILE	N-CA-CB	9.99	117.22	110.52
1	jH	104	ILE	N-CA-C	9.99	120.81	110.62
1	bi	115	ILE	CA-C-N	9.99	131.22	120.03
1	bi	115	ILE	C-N-CA	9.99	131.22	120.03
1	aN	18	ARG	NE-CZ-NH1	9.99	131.49	121.50
1	in	129	ILE	O-C-N	-9.99	112.12	121.91
1	b0	212	GLU	CA-C-N	9.99	133.84	120.65
1	b0	212	GLU	C-N-CA	9.99	133.84	120.65
1	1Y	165	VAL	CA-C-N	9.99	133.42	120.44
1	1Y	165	VAL	C-N-CA	9.99	133.42	120.44
1	29	120	HIS	CA-CB-CG	9.99	123.79	113.80
1	3a	40	PHE	CA-C-N	9.99	133.42	120.44
1	3a	40	PHE	C-N-CA	9.99	133.42	120.44
1	7W	109	SER	CA-C-O	9.99	131.27	120.38
1	9y	202	LEU	CA-C-N	9.99	133.42	120.44
1	9y	202	LEU	C-N-CA	9.99	133.42	120.44
1	aW	76	GLU	N-CA-C	9.99	122.17	111.28
1	dO	132	ARG	N-CA-C	9.99	123.41	111.82
1	bZ	48	THR	N-CA-CB	9.99	123.52	110.04
1	c	37	ILE	N-CA-CB	9.99	118.24	110.45
1	y	223	GLY	CA-C-N	9.99	132.32	119.84
1	y	223	GLY	C-N-CA	9.99	132.32	119.84
1	hD	81	ASP	N-CA-C	9.98	124.99	113.01
1	1M	187	GLU	CA-C-N	9.98	134.02	120.44
1	1M	187	GLU	C-N-CA	9.98	134.02	120.44
1	jN	215	MET	CA-C-N	9.98	133.66	120.28
1	jN	215	MET	C-N-CA	9.98	133.66	120.28
1	4J	176	GLN	OE1-CD-NE2	-9.98	112.61	122.60
1	1Y	83	LEU	N-CA-C	9.98	122.24	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4M	36	VAL	CA-C-N	9.98	126.53	120.24
1	4M	36	VAL	C-N-CA	9.98	126.53	120.24
1	7q	120	HIS	CA-CB-CG	9.98	123.78	113.80
1	8X	36	VAL	CA-C-N	9.98	128.32	120.33
1	8X	36	VAL	C-N-CA	9.98	128.32	120.33
1	cM	64	ALA	CA-C-N	9.98	133.42	120.44
1	cM	64	ALA	C-N-CA	9.98	133.42	120.44
1	hT	197	ASP	CA-CB-CG	9.98	122.58	112.60
1	2R	15	ILE	N-CA-CB	9.98	122.59	110.31
1	45	84	HIS	CA-CB-CG	9.98	123.78	113.80
1	5K	80	TRP	CA-C-N	9.98	133.66	120.28
1	5K	80	TRP	C-N-CA	9.98	133.66	120.28
1	6P	143	ARG	CA-C-N	9.98	133.65	120.28
1	6P	143	ARG	C-N-CA	9.98	133.65	120.28
1	9b	195	ASN	CA-CB-CG	9.98	122.58	112.60
1	gb	81	ASP	CA-CB-CG	9.98	122.58	112.60
1	1U	60	GLY	CA-C-N	9.98	131.32	120.44
1	1U	60	GLY	C-N-CA	9.98	131.32	120.44
1	jT	29	GLU	N-CA-C	9.98	121.92	111.14
1	2u	192	GLN	OE1-CD-NE2	-9.98	112.62	122.60
1	3v	36	VAL	CA-C-N	9.98	128.31	120.33
1	3v	36	VAL	C-N-CA	9.98	128.31	120.33
1	bi	82	ARG	N-CA-C	9.98	123.41	111.33
1	7Z	37	ILE	O-C-N	-9.98	109.73	121.10
1	9s	32	PHE	CA-CB-CG	-9.98	103.82	113.80
1	au	217	ALA	N-CA-C	9.98	124.31	110.24
1	19	62	HIS	CA-CB-CG	-9.98	103.82	113.80
1	9P	201	ILE	N-CA-C	9.97	119.91	110.53
1	hZ	162	ARG	CA-C-O	9.97	130.99	120.42
1	iN	162	ARG	CA-C-N	9.97	133.64	120.28
1	iN	162	ARG	C-N-CA	9.97	133.64	120.28
1	9A	43	LEU	O-C-N	-9.97	111.55	122.12
1	c	63	GLN	N-CA-C	9.97	122.15	111.28
1	dt	205	LEU	CA-C-O	9.97	130.99	120.42
1	h6	142	VAL	O-C-N	-9.97	112.20	121.87
1	jR	216	THR	N-CA-C	9.97	122.15	111.28
1	4z	12	HIS	CA-CB-CG	-9.97	103.83	113.80
1	be	192	GLN	N-CA-C	9.97	122.23	111.36
1	lz	16	SER	CA-C-N	9.97	129.76	119.19
1	lz	16	SER	C-N-CA	9.97	129.76	119.19
1	9E	82	ARG	N-CA-C	9.97	122.15	111.28
1	d9	33	SER	N-CA-C	-9.97	99.25	108.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1L	55	MET	N-CA-C	9.97	122.22	111.36
1	iv	25	LYS	O-C-N	-9.97	110.56	122.22
1	1W	3	VAL	CA-C-N	9.97	136.90	122.35
1	1W	3	VAL	C-N-CA	9.97	136.90	122.35
1	k3	19	THR	CA-C-O	9.97	130.99	120.42
1	ey	126	VAL	O-C-N	-9.97	112.20	121.87
1	4o	60	GLY	CA-C-N	9.97	131.24	121.57
1	4o	60	GLY	C-N-CA	9.97	131.24	121.57
1	4C	143	ARG	N-CA-C	9.97	121.74	111.07
1	9Y	50	GLN	CA-C-O	-9.97	110.24	120.90
1	aP	132	ARG	NE-CZ-NH1	9.97	131.47	121.50
1	h7	126	VAL	N-CA-C	9.97	121.98	110.62
1	1J	30	LYS	N-CA-C	9.97	125.73	113.17
1	km	27	VAL	N-CA-C	9.96	120.78	110.62
1	lO	26	VAL	N-CA-C	9.96	120.78	110.62
1	3Z	68	MET	CA-C-N	9.96	133.40	120.44
1	3Z	68	MET	C-N-CA	9.96	133.40	120.44
1	5H	133	TRP	N-CA-C	9.96	122.22	111.36
1	6b	226	HIS	CA-CB-CG	9.96	123.76	113.80
1	bF	84	HIS	CA-CB-CG	9.96	123.77	113.80
1	kO	144	MET	N-CA-C	9.96	121.73	111.07
1	3f	79	GLU	CA-C-N	9.96	133.39	120.44
1	3f	79	GLU	C-N-CA	9.96	133.39	120.44
1	7s	87	HIS	ND1-CE1-NE2	9.96	118.36	108.40
1	8y	132	ARG	NE-CZ-NH2	-9.96	110.23	119.20
1	aJ	100	ARG	CA-C-N	9.96	131.19	120.03
1	aJ	100	ARG	C-N-CA	9.96	131.19	120.03
1	bT	97	ARG	NE-CZ-NH2	-9.96	110.23	119.20
1	cW	12	HIS	CE1-NE2-CD2	-9.96	99.04	109.00
1	g9	169	TYR	N-CA-C	9.96	122.21	111.36
1	6S	36	VAL	CA-C-N	9.96	126.51	120.24
1	ja	221	VAL	CA-CB-CG2	-9.96	93.47	110.40
1	2A	43	LEU	O-C-N	-9.96	110.57	122.22
1	39	225	GLY	O-C-N	-9.96	109.75	122.70
1	6g	97	ARG	NE-CZ-NH2	-9.96	110.24	119.20
1	6R	100	ARG	NE-CZ-NH2	9.96	128.16	119.20
1	6S	36	VAL	C-N-CA	9.96	126.51	120.24
1	aC	117	TRP	N-CA-C	9.96	122.14	111.28
1	fc	37	ILE	CA-C-O	-9.96	111.14	118.71
1	4c	29	GLU	N-CA-C	9.96	121.72	111.07
1	52	78	ALA	CA-C-O	9.96	131.10	120.55
1	8U	92	GLU	CA-C-O	-9.96	109.28	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fU	85	PRO	N-CA-CB	9.96	110.00	102.73
1	1C	35	GLU	CA-C-N	9.96	134.10	120.46
1	1C	35	GLU	C-N-CA	9.96	134.10	120.46
1	js	132	ARG	CA-C-N	9.96	134.02	120.38
1	js	132	ARG	C-N-CA	9.96	134.02	120.38
1	jg	137	GLY	CA-C-N	9.95	133.38	120.44
1	jg	137	GLY	C-N-CA	9.95	133.38	120.44
1	2e	171	THR	CA-C-N	9.95	133.38	120.44
1	2e	171	THR	C-N-CA	9.95	133.38	120.44
1	94	130	TYR	CA-C-N	9.95	133.62	120.28
1	94	130	TYR	C-N-CA	9.95	133.62	120.28
1	1n	54	THR	N-CA-C	9.96	122.13	111.28
1	4Y	101	GLY	CA-C-N	9.95	133.98	120.44
1	4Y	101	GLY	C-N-CA	9.95	133.98	120.44
1	fJ	187	GLU	N-CA-C	9.95	121.72	111.07
1	a7	213	GLU	N-CA-C	9.95	123.36	111.82
1	cD	226	HIS	CA-CB-CG	9.95	123.75	113.80
1	2e	40	PHE	CA-C-N	9.95	133.61	120.28
1	2e	40	PHE	C-N-CA	9.95	133.61	120.28
1	a4	12	HIS	CA-CB-CG	9.95	123.75	113.80
1	ek	27	VAL	O-C-N	-9.95	112.22	121.87
1	v	74	ASN	CA-CB-CG	-9.95	102.65	112.60
1	jE	226	HIS	CA-CB-CG	9.95	123.75	113.80
1	3y	103	ASP	CA-C-N	9.95	134.55	120.53
1	3y	103	ASP	C-N-CA	9.95	134.55	120.53
1	8a	62	HIS	CA-CB-CG	9.95	123.75	113.80
1	ln	22	ALA	N-CA-C	9.94	122.12	111.28
1	3J	84	HIS	CA-C-N	9.94	132.27	119.84
1	3J	84	HIS	C-N-CA	9.94	132.27	119.84
1	4v	95	GLN	OE1-CD-NE2	-9.95	112.66	122.60
1	9Q	36	VAL	CA-C-N	9.95	128.29	120.33
1	9Q	36	VAL	C-N-CA	9.95	128.29	120.33
1	bj	115	ILE	CA-C-N	9.95	131.02	119.98
1	bj	115	ILE	C-N-CA	9.95	131.02	119.98
1	bR	179	GLN	N-CA-C	9.95	123.36	111.33
1	e7	82	ARG	NE-CZ-NH2	-9.95	110.25	119.20
1	eX	142	VAL	CA-C-N	9.95	133.37	120.44
1	eX	142	VAL	C-N-CA	9.95	133.37	120.44
1	T	163	ASP	CA-CB-CG	9.95	122.55	112.60
1	hc	100	ARG	CA-C-N	9.94	131.22	119.99
1	hc	100	ARG	C-N-CA	9.94	131.22	119.99
1	jd	183	ASN	CA-CB-CG	9.94	122.54	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l3	223	GLY	CA-C-N	9.94	130.04	119.90
1	l3	223	GLY	C-N-CA	9.94	130.04	119.90
1	lP	211	LEU	N-CA-C	9.94	122.12	111.28
1	4D	56	LEU	N-CA-C	9.94	122.12	111.28
1	7y	126	VAL	CA-C-N	9.94	131.02	119.98
1	7y	126	VAL	C-N-CA	9.94	131.02	119.98
1	bO	57	ASN	CA-CB-CG	-9.94	102.66	112.60
1	eq	18	ARG	N-CA-C	9.94	122.12	111.28
1	5p	201	ILE	N-CA-C	9.94	120.76	110.62
1	ei	67	GLN	OE1-CD-NE2	-9.94	112.66	122.60
1	fI	192	GLN	N-CA-C	9.94	122.20	111.36
1	gH	107	THR	N-CA-CB	9.94	127.03	110.33
1	i4	74	ASN	CA-CB-CG	9.94	122.54	112.60
1	ib	50	GLN	CA-C-N	9.94	133.36	120.44
1	ib	50	GLN	C-N-CA	9.94	133.36	120.44
1	3Y	65	ALA	O-C-N	-9.94	111.83	122.07
1	4x	223	GLY	CA-C-N	9.94	132.26	119.84
1	4x	223	GLY	C-N-CA	9.94	132.26	119.84
1	a0	178	SER	CA-C-N	9.94	133.36	120.44
1	a0	178	SER	C-N-CA	9.94	133.36	120.44
1	i6	64	ALA	N-CA-C	9.94	121.70	111.07
1	je	171	THR	CA-C-N	9.94	133.36	120.44
1	je	171	THR	C-N-CA	9.94	133.36	120.44
1	kL	122	PRO	CA-C-N	9.94	130.04	119.90
1	kL	122	PRO	C-N-CA	9.94	130.04	119.90
1	4C	159	GLU	CA-C-N	9.94	132.26	119.84
1	4C	159	GLU	C-N-CA	9.94	132.26	119.84
1	8n	136	LEU	CA-C-N	9.94	130.93	120.00
1	8n	136	LEU	C-N-CA	9.94	130.93	120.00
1	bE	124	ILE	O-C-N	-9.94	114.50	121.55
1	1P	76	GLU	N-CA-C	9.93	122.11	111.28
1	iN	226	HIS	CE1-NE2-CD2	-9.93	99.07	109.00
1	3r	75	GLU	N-CA-C	9.93	122.11	111.28
1	60	124	ILE	CA-C-O	-9.93	113.29	119.15
1	fk	162	ARG	N-CA-C	9.93	121.70	111.07
1	6g	5	ASN	CA-CB-CG	9.93	122.53	112.60
1	9g	152	ASP	CA-CB-CG	9.93	122.53	112.60
1	al	18	ARG	N-CA-C	9.93	123.34	111.82
1	iU	98	GLU	CA-C-O	-9.93	112.83	119.29
1	3g	140	LYS	N-CA-C	9.93	123.34	111.33
1	bB	35	GLU	CA-C-N	9.93	133.07	120.56
1	bP	93	PRO	CA-C-N	9.93	129.78	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fK	137	GLY	CA-C-N	9.93	133.59	120.28
1	gN	141	ILE	N-CA-C	9.93	119.95	110.42
1	kt	59	VAL	O-C-N	-9.93	111.79	122.81
1	4d	82	ARG	NE-CZ-NH1	9.93	131.43	121.50
1	9U	125	PRO	N-CA-CB	-9.93	96.24	102.79
1	aw	13	GLN	OE1-CD-NE2	-9.93	112.67	122.60
1	9k	18	ARG	NE-CZ-NH1	9.93	131.43	121.50
1	9W	50	GLN	OE1-CD-NE2	-9.93	112.67	122.60
1	9Z	214	MET	N-CA-C	9.93	122.10	111.28
1	bB	35	GLU	C-N-CA	9.93	133.07	120.56
1	bP	93	PRO	C-N-CA	9.93	129.78	120.34
1	e2	12	HIS	CA-CB-CG	9.93	123.73	113.80
1	fl	168	PHE	CA-CB-CG	-9.93	103.87	113.80
1	bL	18	ARG	NE-CZ-NH1	9.93	131.43	121.50
1	fK	137	GLY	C-N-CA	9.93	133.59	120.28
1	f	161	PHE	CA-C-N	9.93	133.59	120.28
1	f	161	PHE	C-N-CA	9.93	133.59	120.28
1	v	125	PRO	CA-C-N	9.93	134.53	120.53
1	v	125	PRO	C-N-CA	9.93	134.53	120.53
1	jr	83	LEU	CA-C-O	9.93	131.59	119.38
1	l1	32	PHE	CA-CB-CG	-9.93	103.87	113.80
1	4D	116	GLY	CA-C-N	9.93	133.58	120.28
1	4D	116	GLY	C-N-CA	9.93	133.58	120.28
1	5N	37	ILE	O-C-N	-9.93	114.07	120.42
1	aU	225	GLY	CA-C-N	9.93	133.98	120.38
1	aU	225	GLY	C-N-CA	9.93	133.98	120.38
1	d7	82	ARG	CA-C-N	9.93	133.58	120.28
1	d7	82	ARG	C-N-CA	9.93	133.58	120.28
1	gC	171	THR	CA-C-O	9.92	131.07	120.55
1	hc	224	PRO	CA-C-N	9.92	129.53	120.10
1	hc	224	PRO	C-N-CA	9.92	129.53	120.10
1	lj	192	GLN	OE1-CD-NE2	-9.92	112.68	122.60
1	2d	31	ALA	N-CA-C	9.92	124.45	111.75
1	8V	36	VAL	CA-C-N	9.92	126.49	120.24
1	8V	36	VAL	C-N-CA	9.92	126.49	120.24
1	1m	63	GLN	N-CA-C	9.92	121.69	111.07
1	ef	195	ASN	N-CA-C	9.92	121.01	109.60
1	j3	114	GLN	OE1-CD-NE2	-9.92	112.68	122.60
1	3N	24	VAL	N-CA-C	9.92	120.74	110.72
1	4Z	132	ARG	NE-CZ-NH2	-9.92	110.27	119.20
1	8Z	33	SER	N-CA-C	-9.92	99.29	108.22
1	hQ	128	GLU	CA-C-N	9.92	133.06	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hQ	128	GLU	C-N-CA	9.92	133.06	120.56
1	ji	37	ILE	CA-C-N	9.92	129.55	119.24
1	ji	37	ILE	C-N-CA	9.92	129.55	119.24
1	2x	107	THR	CA-C-O	9.92	129.58	118.97
1	6n	155	GLN	OE1-CD-NE2	-9.92	112.68	122.60
1	6O	126	VAL	N-CA-C	9.92	120.74	110.62
1	ap	159	GLU	CA-C-O	-9.92	109.88	119.80
1	b9	34	PRO	CA-C-N	9.92	133.57	120.28
1	b9	34	PRO	C-N-CA	9.92	133.57	120.28
1	hG	129	ILE	N-CA-CB	9.91	122.15	110.55
1	5U	139	ASN	OD1-CG-ND2	-9.91	112.69	122.60
1	6f	6	LEU	N-CA-C	-9.91	101.42	112.72
1	f3	25	LYS	N-CA-C	9.91	122.09	111.28
1	i7	82	ARG	N-CA-C	9.91	121.68	111.07
1	iX	222	GLY	CA-C-O	-9.91	115.39	122.23
1	5l	154	ARG	NH1-CZ-NH2	-9.91	106.41	119.30
1	5J	9	GLN	OE1-CD-NE2	-9.91	112.69	122.60
1	7P	214	MET	N-CA-C	9.91	121.68	111.07
1	dz	183	ASN	CA-CB-CG	-9.91	102.69	112.60
1	6q	140	LYS	N-CA-C	9.91	122.08	111.28
1	eH	172	LEU	CA-C-N	9.91	133.32	120.44
1	eH	172	LEU	C-N-CA	9.91	133.32	120.44
1	gq	113	GLU	CA-C-N	9.91	133.92	120.54
1	gq	113	GLU	C-N-CA	9.91	133.92	120.54
1	iC	152	ASP	CA-CB-CG	-9.91	102.69	112.60
1	3j	36	VAL	CA-C-N	9.91	128.26	120.33
1	3j	36	VAL	C-N-CA	9.91	128.26	120.33
1	1p	174	ALA	N-CA-C	9.91	122.08	111.28
1	jE	195	ASN	CA-C-O	-9.91	109.87	120.17
1	61	121	ASN	CA-CB-CG	-9.91	102.69	112.60
1	6F	179	GLN	N-CA-C	9.91	122.08	111.28
1	je	152	ASP	CA-CB-CG	9.91	122.51	112.60
1	jm	32	PHE	CA-CB-CG	-9.91	103.89	113.80
1	k6	136	LEU	CA-C-N	9.91	130.74	119.94
1	k6	136	LEU	C-N-CA	9.91	130.74	119.94
1	2g	50	GLN	OE1-CD-NE2	-9.91	112.69	122.60
1	3s	183	ASN	CA-CB-CG	-9.91	102.69	112.60
1	4h	114	GLN	N-CA-C	9.91	123.00	111.11
1	5T	229	ARG	NE-CZ-NH1	9.91	131.41	121.50
1	62	26	VAL	N-CA-C	9.91	119.93	110.42
1	X	58	THR	CA-C-N	9.91	135.78	121.52
1	X	58	THR	C-N-CA	9.91	135.78	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hv	47	ALA	CA-C-O	9.90	132.35	121.56
1	5d	180	GLU	N-CA-C	9.90	122.08	111.28
1	lr	37	ILE	N-CA-CB	-9.90	102.73	110.45
1	61	32	PHE	CA-CB-CG	-9.90	103.90	113.80
1	ag	53	ASN	CA-C-N	9.90	133.91	120.44
1	ag	53	ASN	C-N-CA	9.90	133.91	120.44
1	1u	161	PHE	CA-C-N	9.90	133.32	120.44
1	1u	161	PHE	C-N-CA	9.90	133.32	120.44
1	ft	91	ILE	N-CA-C	9.90	122.28	109.30
1	e	36	VAL	CA-C-N	9.90	128.25	120.33
1	e	36	VAL	C-N-CA	9.90	128.25	120.33
1	gT	182	LYS	N-CA-C	9.90	122.99	111.11
1	ic	120	HIS	CB-CG-CD2	-9.90	118.33	131.20
1	9n	36	VAL	CA-C-N	-9.90	112.41	120.33
1	9n	36	VAL	C-N-CA	-9.90	112.41	120.33
1	ah	7	GLN	OE1-CD-NE2	-9.90	112.70	122.60
1	ci	84	HIS	O-C-N	-9.90	110.37	121.36
1	dK	74	ASN	CA-CB-CG	-9.90	102.70	112.60
1	hH	195	ASN	CA-C-N	9.90	129.53	119.24
1	hH	195	ASN	C-N-CA	9.90	129.53	119.24
1	iJ	195	ASN	CA-CB-CG	9.90	122.50	112.60
1	jC	226	HIS	N-CA-C	9.90	122.07	111.28
1	kT	198	CYS	O-C-N	-9.90	111.63	122.12
1	3E	132	ARG	NE-CZ-NH1	9.90	131.40	121.50
1	7b	22	ALA	CA-C-O	9.90	131.04	120.55
1	14	83	LEU	N-CA-C	9.90	122.07	111.28
1	bX	121	ASN	CA-CB-CG	-9.90	102.70	112.60
1	4W	37	ILE	CA-C-N	9.89	129.68	119.19
1	4W	37	ILE	C-N-CA	9.89	129.68	119.19
1	cK	132	ARG	NE-CZ-NH1	9.89	131.40	121.50
1	1s	142	VAL	CA-C-O	9.89	131.24	120.95
1	8o	37	ILE	CA-C-O	9.89	125.32	118.69
1	9d	53	ASN	CA-CB-CG	-9.89	102.71	112.60
1	3g	143	ARG	NE-CZ-NH1	9.89	131.39	121.50
1	9X	219	GLN	OE1-CD-NE2	9.89	132.49	122.60
1	43	220	GLY	N-CA-C	9.89	122.93	111.36
1	5p	36	VAL	N-CA-C	9.89	120.70	110.62
1	k7	51	ASP	CA-CB-CG	-9.88	102.72	112.60
1	54	146	SER	O-C-N	-9.88	109.95	121.32
1	bT	195	ASN	CA-C-N	9.88	129.52	119.24
1	bT	195	ASN	C-N-CA	9.88	129.52	119.24
1	c4	50	GLN	N-CA-C	9.88	121.65	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lk	92	GLU	N-CA-C	9.88	122.19	109.64
1	8b	124	ILE	N-CA-CB	9.88	121.54	111.36
1	d5	159	GLU	N-CA-C	9.88	122.19	109.64
1	fu	136	LEU	CA-C-N	9.88	131.16	119.99
1	hp	229	ARG	NE-CZ-NH1	9.88	131.38	121.50
1	64	186	THR	N-CA-C	9.88	123.28	111.82
1	aA	162	ARG	NE-CZ-NH1	9.88	131.38	121.50
1	fu	136	LEU	C-N-CA	9.88	131.16	119.99
1	lf	18	ARG	N-CA-C	9.88	121.81	111.14
1	5q	74	ASN	N-CA-C	9.88	122.05	111.28
1	c	53	ASN	CA-CB-CG	-9.88	102.72	112.60
1	hj	201	ILE	N-CA-C	9.88	119.90	110.42
1	hU	226	HIS	CA-C-N	9.88	133.91	120.38
1	hU	226	HIS	C-N-CA	9.88	133.91	120.38
1	kJ	175	GLU	CA-C-N	9.88	136.11	122.19
1	kJ	175	GLU	C-N-CA	9.88	136.11	122.19
1	4Y	39	MET	N-CA-C	9.88	122.04	111.28
1	9L	115	ILE	CA-C-N	9.88	131.15	119.99
1	9L	115	ILE	C-N-CA	9.88	131.15	119.99
1	bm	126	VAL	N-CA-C	9.88	121.88	110.62
1	bA	163	ASP	CA-CB-CG	9.88	122.48	112.60
1	ej	216	THR	N-CA-C	-9.88	101.35	113.50
1	9s	53	ASN	CA-C-N	9.87	133.51	120.28
1	9s	53	ASN	C-N-CA	9.87	133.51	120.28
1	9P	185	MET	N-CA-C	9.88	122.96	111.11
1	iH	98	GLU	N-CA-C	9.87	122.18	109.64
1	4F	84	HIS	CB-CG-CD2	-9.87	118.36	131.20
1	7Y	120	HIS	CA-CB-CG	9.87	123.67	113.80
1	gG	37	ILE	CA-C-O	-9.87	112.08	118.69
1	2o	143	ARG	NE-CZ-NH1	9.87	131.37	121.50
1	2C	41	SER	O-C-N	-9.87	110.90	122.15
1	4Z	132	ARG	NE-CZ-NH1	9.87	131.37	121.50
1	aa	37	ILE	O-C-N	-9.87	114.10	120.42
1	1f	26	VAL	N-CA-C	9.87	119.90	110.42
1	7P	184	TRP	CA-C-O	9.87	131.32	119.97
1	hy	48	THR	CA-CB-OG1	9.87	124.40	109.60
1	e2	143	ARG	NE-CZ-NH2	9.87	128.08	119.20
1	1w	29	GLU	N-CA-C	9.87	122.11	111.36
1	35	214	MET	N-CA-C	9.86	122.03	111.28
1	6a	53	ASN	CA-CB-CG	-9.87	102.73	112.60
1	9F	79	GLU	N-CA-C	9.87	122.03	111.28
1	bm	132	ARG	NE-CZ-NH2	9.86	128.08	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lg	3	VAL	CA-C-N	9.86	135.32	120.82
1	lg	3	VAL	C-N-CA	9.86	135.32	120.82
1	4L	98	GLU	CA-C-O	-9.86	110.98	119.76
1	5v	36	VAL	CA-C-N	9.86	126.45	120.24
1	5v	36	VAL	C-N-CA	9.86	126.45	120.24
1	7f	173	ARG	NE-CZ-NH1	9.86	131.36	121.50
1	dn	214	MET	N-CA-C	9.86	121.62	111.07
1	lJ	100	ARG	NE-CZ-NH1	9.86	131.36	121.50
1	61	193	ASN	CA-CB-CG	-9.86	102.74	112.60
1	6F	169	TYR	N-CA-C	9.86	122.03	111.28
1	7E	34	PRO	N-CA-C	-9.86	104.43	114.68
1	jF	90	PRO	O-C-N	-9.86	111.10	123.03
1	6T	192	GLN	CA-C-O	9.86	131.91	121.07
1	gl	16	SER	CA-C-O	-9.86	109.73	119.49
1	lN	37	ILE	N-CA-C	9.86	124.18	112.35
1	47	214	MET	O-C-N	-9.86	111.67	122.12
1	4R	166	ASP	CA-CB-CG	9.86	122.45	112.60
1	bl	21	ASN	CA-CB-CG	9.86	122.45	112.60
1	dN	164	TYR	N-CA-C	9.86	121.61	111.07
1	fV	229	ARG	NE-CZ-NH1	9.86	131.36	121.50
1	x	77	ALA	N-CA-C	9.86	122.02	111.28
1	gH	19	THR	CA-C-N	9.85	133.25	120.44
1	gH	19	THR	C-N-CA	9.85	133.25	120.44
1	4b	51	ASP	CA-C-N	9.85	134.28	120.29
1	iT	141	ILE	N-CA-C	9.85	120.67	110.62
1	jN	84	HIS	CA-CB-CG	-9.85	103.95	113.80
1	4b	51	ASP	C-N-CA	9.85	134.28	120.29
1	53	82	ARG	NE-CZ-NH2	9.85	128.07	119.20
1	lz	32	PHE	CA-CB-CG	-9.85	103.95	113.80
1	2Z	72	THR	O-C-N	-9.85	111.92	122.07
1	5O	111	LEU	N-CA-C	9.85	122.02	111.28
1	O	53	ASN	CA-CB-CG	-9.85	102.75	112.60
1	V	136	LEU	CA-C-N	9.85	130.92	119.98
1	V	136	LEU	C-N-CA	9.85	130.92	119.98
1	e4	83	LEU	N-CA-C	9.85	121.61	111.07
1	f2	33	SER	N-CA-C	-9.85	99.35	108.22
1	kK	202	LEU	N-CA-CB	9.85	124.60	110.12
1	4j	82	ARG	NE-CZ-NH2	-9.85	110.34	119.20
1	4y	81	ASP	CA-CB-CG	9.85	122.45	112.60
1	18	104	ILE	N-CA-CB	9.85	123.94	110.54
1	6Q	24	VAL	N-CA-C	9.85	120.67	110.62
1	8q	84	HIS	CA-CB-CG	-9.85	103.95	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lu	139	ASN	CA-CB-CG	9.85	122.45	112.60
1	3e	62	HIS	ND1-CG-CD2	9.85	115.95	106.10
1	98	81	ASP	N-CA-C	9.85	122.01	111.28
1	9G	124	ILE	N-CA-C	-9.85	97.80	107.55
1	ae	87	HIS	CE1-NE2-CD2	-9.85	99.15	109.00
1	e3	214	MET	O-C-N	-9.85	110.92	122.15
1	aU	36	VAL	CA-C-N	9.85	128.21	120.33
1	aU	36	VAL	C-N-CA	9.85	128.21	120.33
1	bS	144	MET	N-CA-C	9.85	121.60	111.07
1	d4	53	ASN	OD1-CG-ND2	-9.85	112.75	122.60
1	ee	132	ARG	N-CA-C	9.85	122.01	111.28
1	iQ	59	VAL	N-CA-CB	9.84	121.75	110.82
1	9C	89	GLY	CA-C-N	9.84	130.46	119.93
1	9C	89	GLY	C-N-CA	9.84	130.46	119.93
1	bJ	137	GLY	CA-C-O	9.84	131.63	121.00
1	dt	50	GLN	N-CA-C	9.84	122.01	111.28
1	j5	37	ILE	CA-C-N	9.84	129.58	118.85
1	j5	37	ILE	C-N-CA	9.84	129.58	118.85
1	8N	79	GLU	N-CA-CB	9.84	124.59	110.12
1	lo	36	VAL	CA-C-N	9.84	128.20	120.33
1	lo	36	VAL	C-N-CA	9.84	128.20	120.33
1	9u	161	PHE	CA-CB-CG	-9.84	103.96	113.80
1	bf	200	THR	CA-C-N	9.84	132.96	120.56
1	bf	200	THR	C-N-CA	9.84	132.96	120.56
1	bu	101	GLY	CA-C-O	9.84	130.44	120.80
1	1c	37	ILE	N-CA-CB	9.84	118.12	110.45
1	ev	47	ALA	N-CA-C	9.84	124.50	110.23
1	N	137	GLY	N-CA-C	9.84	124.54	112.73
1	he	229	ARG	NE-CZ-NH2	9.84	128.05	119.20
1	hm	185	MET	CA-C-N	9.84	133.23	120.44
1	hm	185	MET	C-N-CA	9.84	133.23	120.44
1	2T	117	TRP	O-C-N	-9.84	111.94	122.07
1	5S	74	ASN	OD1-CG-ND2	-9.84	112.76	122.60
1	7Z	55	MET	N-CA-C	9.84	122.91	111.11
1	8j	183	ASN	CA-CB-CG	-9.84	102.76	112.60
1	a5	182	LYS	N-CA-C	9.84	122.91	111.11
1	et	120	HIS	CA-CB-CG	9.84	123.64	113.80
1	eB	24	VAL	CA-C-N	9.84	133.46	120.28
1	eB	24	VAL	C-N-CA	9.84	133.46	120.28
1	a6	165	VAL	N-CA-C	9.84	120.65	110.62
1	dr	21	ASN	CA-CB-CG	9.84	122.44	112.60
1	fM	226	HIS	CA-CB-CG	9.84	123.64	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ho	224	PRO	CA-C-N	9.83	131.87	121.45
1	ho	224	PRO	C-N-CA	9.83	131.87	121.45
1	hJ	65	ALA	N-CA-C	9.83	122.08	111.36
1	hg	112	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	2u	135	ILE	O-C-N	-9.83	112.33	121.87
1	4f	173	ARG	N-CA-C	9.83	122.00	111.28
1	5N	190	LEU	CA-C-N	9.83	133.15	120.56
1	5N	190	LEU	C-N-CA	9.83	133.15	120.56
1	bn	61	GLY	CA-C-N	9.83	136.32	122.36
1	cr	112	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	dr	36	VAL	CA-C-N	9.83	128.20	120.33
1	6J	4	GLN	N-CA-C	9.83	121.76	111.14
1	8i	36	VAL	O-C-N	-9.83	112.25	121.89
1	bn	61	GLY	C-N-CA	9.83	136.32	122.36
1	dr	36	VAL	C-N-CA	9.83	128.20	120.33
1	f6	182	LYS	N-CA-C	9.83	121.59	111.07
1	j	74	ASN	O-C-N	-9.83	111.70	122.12
1	jX	17	PRO	CA-C-N	9.83	133.45	120.28
1	jX	17	PRO	C-N-CA	9.83	133.45	120.28
1	3H	94	GLY	N-CA-C	-9.83	102.61	111.95
1	1b	21	ASN	CA-CB-CG	9.83	122.43	112.60
1	9x	103	ASP	CA-CB-CG	9.83	122.43	112.60
1	m	213	GLU	N-CA-C	9.83	122.91	111.11
1	gO	167	ARG	NE-CZ-NH2	-9.83	110.36	119.20
1	hD	132	ARG	NE-CZ-NH2	-9.83	110.36	119.20
1	ig	37	ILE	N-CA-CB	9.83	118.12	110.45
1	ll	16	SER	O-C-N	-9.83	111.00	121.42
1	9e	83	LEU	N-CA-C	9.83	121.75	111.14
1	9q	31	ALA	N-CA-C	9.83	121.99	111.28
1	le	190	LEU	CA-C-N	9.83	133.14	120.56
1	le	190	LEU	C-N-CA	9.83	133.14	120.56
1	8Z	28	GLU	N-CA-C	9.83	121.99	111.28
1	fC	139	ASN	CA-CB-CG	-9.83	102.77	112.60
1	jA	63	GLN	N-CA-C	9.82	121.99	111.28
1	lt	120	HIS	CA-CB-CG	9.82	123.62	113.80
1	3z	52	LEU	N-CA-C	9.82	121.58	111.07
1	8k	28	GLU	N-CA-C	9.82	121.58	111.07
1	8n	162	ARG	N-CA-C	9.82	121.99	111.28
1	8G	210	THR	N-CA-C	9.82	123.30	110.43
1	f9	36	VAL	N-CA-C	9.82	120.67	110.36
1	fY	62	HIS	CA-CB-CG	-9.82	103.98	113.80
1	g9	185	MET	N-CA-C	9.82	121.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1F	154	ARG	NE-CZ-NH2	-9.82	110.36	119.20
1	k9	77	ALA	N-CA-C	9.82	121.99	111.28
1	dv	167	ARG	NE-CZ-NH1	9.82	131.32	121.50
1	gx	31	ALA	N-CA-C	9.82	125.02	111.17
1	it	100	ARG	NE-CZ-NH1	9.82	131.32	121.50
1	js	63	GLN	N-CA-C	9.82	121.98	111.28
1	5C	194	ALA	CA-C-N	9.82	133.83	120.67
1	5C	194	ALA	C-N-CA	9.82	133.83	120.67
1	jD	133	TRP	CA-CB-CG	9.82	132.25	113.60
1	lr	166	ASP	O-C-N	-9.82	111.49	122.09
1	5B	176	GLN	O-C-N	-9.82	110.61	122.20
1	5F	36	VAL	CA-C-N	9.82	128.19	120.33
1	5F	36	VAL	C-N-CA	9.82	128.19	120.33
1	c0	32	PHE	CA-CB-CG	-9.82	103.98	113.80
1	dW	84	HIS	CA-C-N	9.82	129.92	119.90
1	dW	84	HIS	C-N-CA	9.82	129.92	119.90
1	eA	84	HIS	CA-CB-CG	-9.82	103.98	113.80
1	ig	126	VAL	N-CA-C	9.82	121.81	110.62
1	8	162	ARG	NE-CZ-NH2	-9.82	110.36	119.20
1	gj	53	ASN	CA-CB-CG	-9.82	102.78	112.60
1	4O	60	GLY	CA-C-N	9.82	129.43	120.10
1	4O	60	GLY	C-N-CA	9.82	129.43	120.10
1	dW	154	ARG	NE-CZ-NH2	-9.82	110.36	119.20
1	N	219	GLN	CA-C-N	9.82	131.03	120.03
1	N	219	GLN	C-N-CA	9.82	131.03	120.03
1	20	92	GLU	CA-C-N	9.81	132.11	119.84
1	20	92	GLU	C-N-CA	9.81	132.11	119.84
1	km	229	ARG	NE-CZ-NH2	-9.81	110.37	119.20
1	4I	223	GLY	CA-C-O	-9.81	112.27	122.38
1	bV	125	PRO	N-CA-CB	9.81	109.27	102.79
1	e4	87	HIS	CA-CB-CG	9.81	123.61	113.80
1	hZ	162	ARG	NE-CZ-NH1	9.81	131.31	121.50
1	gv	171	THR	N-CA-C	-9.81	101.44	113.41
1	iH	53	ASN	CA-CB-CG	-9.81	102.79	112.60
1	4h	84	HIS	CA-C-O	9.81	128.62	119.59
1	kJ	163	ASP	CA-CB-CG	-9.81	102.79	112.60
1	4p	136	LEU	CA-C-N	9.81	130.83	119.94
1	4p	136	LEU	C-N-CA	9.81	130.83	119.94
1	7d	18	ARG	NE-CZ-NH2	9.81	128.03	119.20
1	dw	124	ILE	CA-C-O	-9.81	111.79	119.25
1	f7	25	LYS	N-CA-C	9.81	121.97	111.28
1	jX	114	GLN	N-CA-C	9.81	122.99	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2V	18	ARG	CA-C-N	9.81	133.19	120.44
1	2V	18	ARG	C-N-CA	9.81	133.19	120.44
1	fT	14	ALA	N-CA-C	9.81	124.07	110.24
1	kS	87	HIS	CA-CB-CG	-9.81	103.99	113.80
1	97	201	ILE	N-CA-CB	9.81	122.02	110.55
1	r	197	ASP	CA-C-O	9.81	131.12	120.82
1	iC	198	CYS	CA-C-N	9.81	133.42	120.28
1	iC	198	CYS	C-N-CA	9.81	133.42	120.28
1	j9	92	GLU	CA-C-O	-9.81	110.01	120.70
1	s	22	ALA	N-CA-C	9.81	121.97	111.28
1	hX	181	VAL	CA-C-N	9.80	133.42	120.28
1	hX	181	VAL	C-N-CA	9.80	133.42	120.28
1	1U	229	ARG	NE-CZ-NH2	9.80	128.03	119.20
1	de	162	ARG	NE-CZ-NH1	9.81	131.31	121.50
1	U	201	ILE	N-CA-C	9.80	120.62	110.72
1	j3	57	ASN	CA-CB-CG	-9.80	102.80	112.60
1	k1	25	LYS	N-CA-C	9.80	121.73	111.14
1	3X	26	VAL	CA-C-O	-9.80	110.75	120.95
1	ea	146	SER	O-C-N	-9.80	112.98	121.31
1	95	84	HIS	CA-CB-CG	-9.80	104.00	113.80
1	j9	193	ASN	CA-CB-CG	-9.80	102.80	112.60
1	3L	21	ASN	O-C-N	-9.80	111.97	122.07
1	gD	111	LEU	N-CA-C	9.80	122.98	111.71
1	9n	44	SER	CA-C-N	9.80	133.81	120.38
1	9n	44	SER	C-N-CA	9.80	133.81	120.38
1	bs	139	ASN	CA-CB-CG	-9.80	102.80	112.60
1	bD	42	ALA	N-CA-C	9.80	121.96	111.28
1	dM	165	VAL	N-CA-C	9.80	120.62	110.72
1	eW	67	GLN	N-CA-C	9.80	121.96	111.28
1	f5	162	ARG	NE-CZ-NH2	-9.80	110.38	119.20
1	fg	21	ASN	O-C-N	-9.80	111.73	122.12
1	gV	32	PHE	CA-CB-CG	-9.80	104.00	113.80
1	k3	161	PHE	N-CA-C	9.80	122.04	111.36
1	k6	10	MET	CA-C-O	9.80	125.36	119.77
1	gj	134	ILE	N-CA-C	9.80	119.83	110.42
1	5M	16	SER	CA-C-O	-9.80	111.04	119.76
1	7M	223	GLY	O-C-N	-9.80	111.97	121.77
1	7R	96	MET	N-CA-C	9.80	124.06	110.35
1	8h	180	GLU	CA-C-N	9.80	132.90	120.56
1	8h	180	GLU	C-N-CA	9.80	132.90	120.56
1	dW	100	ARG	O-C-N	-9.80	111.89	122.96
1	eR	33	SER	N-CA-C	-9.80	99.40	108.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	84	HIS	ND1-CE1-NE2	9.80	118.20	108.40
1	q	79	GLU	CA-C-O	-9.80	110.53	120.82
1	iU	167	ARG	NE-CZ-NH2	-9.79	110.39	119.20
1	kk	229	ARG	N-CA-C	9.79	121.96	111.28
1	kU	124	ILE	O-C-N	-9.79	112.70	121.61
1	5w	162	ARG	NE-CZ-NH1	9.79	131.29	121.50
1	1Q	56	LEU	CA-C-N	9.79	134.20	120.29
1	1Q	56	LEU	C-N-CA	9.79	134.20	120.29
1	jI	50	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	lw	204	ALA	N-CA-C	9.79	121.95	111.28
1	7y	198	CYS	CA-C-N	9.79	133.40	120.28
1	7y	198	CYS	C-N-CA	9.79	133.40	120.28
1	96	161	PHE	N-CA-C	9.79	121.55	111.07
1	f6	159	GLU	CA-C-O	-9.79	111.92	119.46
1	hA	62	HIS	CA-CB-CG	9.79	123.59	113.80
1	i5	195	ASN	CA-CB-CG	9.79	122.39	112.60
1	iD	175	GLU	CA-C-O	9.79	132.23	121.56
1	jG	226	HIS	CA-CB-CG	9.79	123.59	113.80
1	fq	213	GLU	CA-C-N	9.79	133.40	120.28
1	fq	213	GLU	C-N-CA	9.79	133.40	120.28
1	k3	184	TRP	N-CA-C	9.79	123.17	111.33
1	ls	136	LEU	CA-C-N	9.79	130.80	119.94
1	ls	136	LEU	C-N-CA	9.79	130.80	119.94
1	3f	74	ASN	OD1-CG-ND2	-9.79	112.81	122.60
1	6F	167	ARG	NE-CZ-NH1	9.79	131.29	121.50
1	7Y	82	ARG	N-CA-C	9.79	122.85	111.11
1	10	173	ARG	NE-CZ-NH2	-9.79	110.39	119.20
1	L	58	THR	O-C-N	-9.79	110.99	122.15
1	i2	143	ARG	N-CA-C	-9.79	100.57	111.14
1	iv	82	ARG	NE-CZ-NH2	9.79	128.01	119.20
1	l7	50	GLN	CA-C-O	9.79	130.79	120.42
1	2I	36	VAL	N-CA-C	9.78	120.60	110.62
1	3u	159	GLU	CA-C-N	9.78	129.87	119.89
1	3u	159	GLU	C-N-CA	9.78	129.87	119.89
1	5X	103	ASP	CA-C-N	9.78	133.86	120.46
1	5X	103	ASP	C-N-CA	9.78	133.86	120.46
1	bg	162	ARG	N-CA-C	9.79	121.94	111.28
1	1b	62	HIS	ND1-CG-CD2	9.78	115.88	106.10
1	i7	12	HIS	CA-CB-CG	9.78	123.58	113.80
1	iv	36	VAL	CA-C-N	9.78	129.82	120.43
1	iv	36	VAL	C-N-CA	9.78	129.82	120.43
1	2i	64	ALA	N-CA-C	9.78	121.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5v	37	ILE	O-C-N	-9.78	113.12	120.07
1	6i	89	GLY	CA-C-O	-9.78	112.30	122.38
1	6D	229	ARG	NH1-CZ-NH2	-9.78	106.58	119.30
1	bK	55	MET	CA-C-O	9.78	130.92	120.55
1	1g	162	ARG	NE-CZ-NH1	9.78	131.28	121.50
1	dN	143	ARG	NE-CZ-NH2	9.78	128.00	119.20
1	fq	139	ASN	CA-CB-CG	9.78	122.38	112.60
1	gC	126	VAL	N-CA-C	9.78	120.59	110.62
1	3J	205	LEU	CA-C-N	9.78	137.22	121.87
1	3J	205	LEU	C-N-CA	9.78	137.22	121.87
1	6F	101	GLY	N-CA-C	9.78	124.46	112.73
1	9H	139	ASN	N-CA-C	9.78	123.16	111.33
1	bd	147	PRO	CA-C-O	-9.78	114.07	121.31
1	d0	32	PHE	CA-CB-CG	-9.78	104.02	113.80
1	d3	36	VAL	CA-C-N	9.78	128.15	120.33
1	d3	36	VAL	C-N-CA	9.78	128.15	120.33
1	dz	220	GLY	O-C-N	-9.78	110.19	122.32
1	fz	161	PHE	CA-CB-CG	9.78	123.58	113.80
1	fF	171	THR	CA-C-O	9.78	131.36	120.90
1	53	13	GLN	OE1-CD-NE2	-9.78	112.82	122.60
1	1S	150	ILE	N-CA-C	9.78	120.59	110.62
1	kw	65	ALA	N-CA-C	9.78	122.84	111.11
1	3x	143	ARG	NE-CZ-NH1	9.78	131.28	121.50
1	9l	9	GLN	OE1-CD-NE2	-9.78	112.83	122.60
1	1k	124	ILE	N-CA-CB	9.78	122.05	111.20
1	dF	92	GLU	N-CA-C	9.78	125.96	113.25
1	gG	193	ASN	CA-CB-CG	-9.77	102.83	112.60
1	h5	124	ILE	N-CA-C	-9.77	98.67	107.56
1	if	191	VAL	N-CA-C	9.77	119.80	110.42
1	df	143	ARG	NE-CZ-NH1	-9.77	111.73	121.50
1	gC	144	MET	CA-C-O	9.77	130.91	120.55
1	4P	195	ASN	CA-CB-CG	9.77	122.37	112.60
1	gn	154	ARG	NE-CZ-NH2	9.77	127.99	119.20
1	iA	33	SER	CA-C-O	-9.77	110.98	120.26
1	6a	32	PHE	CA-CB-CG	-9.77	104.03	113.80
1	8b	191	VAL	N-CA-C	9.77	119.80	110.42
1	a1	111	LEU	CA-C-N	9.77	133.37	120.28
1	a1	111	LEU	C-N-CA	9.77	133.37	120.28
1	6K	152	ASP	CA-CB-CG	-9.77	102.83	112.60
1	ag	189	LEU	O-C-N	-9.77	111.77	122.12
1	aq	74	ASN	OD1-CG-ND2	-9.77	112.83	122.60
1	P	98	GLU	CA-C-N	9.77	131.31	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	98	GLU	C-N-CA	9.77	131.31	119.98
1	27	27	VAL	O-C-N	-9.77	112.40	121.87
1	3O	188	THR	CA-C-N	9.77	133.72	120.54
1	3O	188	THR	C-N-CA	9.77	133.72	120.54
1	4X	166	ASP	CA-CB-CG	9.77	122.37	112.60
1	10	229	ARG	NE-CZ-NH2	9.77	127.99	119.20
1	by	229	ARG	NE-CZ-NH2	-9.77	110.41	119.20
1	h	140	LYS	N-CA-C	9.77	121.92	111.28
1	lF	229	ARG	NE-CZ-NH1	9.76	131.26	121.50
1	2b	37	ILE	N-CA-CB	9.76	118.07	110.45
1	2N	206	GLY	CA-C-N	9.76	129.54	119.19
1	2N	206	GLY	C-N-CA	9.76	129.54	119.19
1	7q	129	ILE	O-C-N	-9.76	112.40	121.87
1	iF	216	THR	N-CA-C	9.76	121.92	111.28
1	89	21	ASN	CA-C-N	9.76	133.36	120.28
1	89	21	ASN	C-N-CA	9.76	133.36	120.28
1	90	191	VAL	CA-C-N	9.76	133.13	120.44
1	90	191	VAL	C-N-CA	9.76	133.13	120.44
1	1e	167	ARG	N-CA-C	9.76	121.92	111.28
1	i0	47	ALA	N-CA-C	9.76	124.38	110.23
1	2D	192	GLN	N-CA-C	9.76	121.92	111.28
1	aC	61	GLY	O-C-N	-9.76	113.61	122.88
1	bB	50	GLN	OE1-CD-NE2	-9.76	112.84	122.60
1	d3	187	GLU	N-CA-C	9.76	122.93	111.02
1	o	163	ASP	CA-CB-CG	9.76	122.36	112.60
1	im	224	PRO	CA-C-N	9.76	131.56	120.53
1	im	224	PRO	C-N-CA	9.76	131.56	120.53
1	dI	84	HIS	CA-C-O	-9.76	111.81	119.71
1	gr	78	ALA	N-CA-C	9.76	121.51	111.07
1	gS	82	ARG	NE-CZ-NH2	-9.76	110.42	119.20
1	h7	213	GLU	N-CA-C	9.76	122.93	111.71
1	j8	18	ARG	CA-C-N	9.76	133.12	120.44
1	j8	18	ARG	C-N-CA	9.76	133.12	120.44
1	jf	139	ASN	N-CA-C	9.76	121.51	111.07
1	jg	189	LEU	CA-C-N	9.76	133.71	120.54
1	jg	189	LEU	C-N-CA	9.76	133.71	120.54
1	8f	32	PHE	CA-CB-CG	-9.76	104.04	113.80
1	e1	37	ILE	O-C-N	-9.76	114.18	120.42
1	ju	123	PRO	CA-C-N	9.75	129.61	122.59
1	ju	123	PRO	C-N-CA	9.75	129.61	122.59
1	7d	123	PRO	CA-C-N	9.75	129.23	122.60
1	7d	123	PRO	C-N-CA	9.75	129.23	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	100	ARG	NE-CZ-NH2	-9.75	110.42	119.20
1	1Y	86	VAL	O-C-N	-9.75	114.07	122.65
1	lK	32	PHE	CA-CB-CG	-9.75	104.05	113.80
1	2J	173	ARG	NE-CZ-NH2	-9.75	110.42	119.20
1	7o	162	ARG	N-CA-C	9.75	123.13	111.33
1	cf	181	VAL	N-CA-C	9.75	120.57	110.62
1	1A	163	ASP	CA-C-N	9.75	133.35	120.28
1	1A	163	ASP	C-N-CA	9.75	133.35	120.28
1	x	194	ALA	N-CA-C	9.75	122.41	110.41
1	2s	122	PRO	CA-C-N	9.75	129.80	119.76
1	2s	122	PRO	C-N-CA	9.75	129.80	119.76
1	6v	27	VAL	CA-C-O	9.75	130.78	120.25
1	f3	29	GLU	N-CA-C	9.75	121.99	111.36
1	f9	34	PRO	CA-C-N	9.75	133.35	120.28
1	f9	34	PRO	C-N-CA	9.75	133.35	120.28
1	kG	50	GLN	CA-C-O	9.75	130.88	120.55
1	5X	118	MET	O-C-N	-9.75	111.79	122.12
1	8q	87	HIS	CA-CB-CG	9.75	123.55	113.80
1	fR	42	ALA	N-CA-C	9.75	121.91	111.28
1	j6	63	GLN	N-CA-C	9.75	121.90	111.28
1	lh	68	MET	N-CA-C	9.75	121.90	111.28
1	8F	143	ARG	NE-CZ-NH1	9.75	131.25	121.50
1	ep	103	ASP	CA-CB-CG	-9.75	102.85	112.60
1	E	37	ILE	O-C-N	-9.75	114.18	120.42
1	J	36	VAL	CA-C-N	9.75	126.38	120.24
1	J	36	VAL	C-N-CA	9.75	126.38	120.24
1	gJ	89	GLY	CA-C-N	9.74	132.02	119.84
1	gJ	89	GLY	C-N-CA	9.74	132.02	119.84
1	i1	63	GLN	N-CA-C	9.74	121.98	111.36
1	6k	32	PHE	CA-CB-CG	-9.74	104.06	113.80
1	8n	84	HIS	CA-CB-CG	-9.74	104.06	113.80
1	13	36	VAL	N-CA-C	9.74	121.73	110.62
1	hp	109	SER	CA-C-N	9.74	135.46	120.75
1	hp	109	SER	C-N-CA	9.74	135.46	120.75
1	hF	40	PHE	CA-C-O	-9.74	110.22	120.55
1	ii	170	LYS	N-CA-C	9.74	121.98	111.36
1	ll	6	LEU	N-CA-C	9.74	121.49	111.07
1	3J	51	ASP	CA-CB-CG	-9.74	102.86	112.60
1	4j	156	GLY	CA-C-N	9.74	129.47	118.85
1	4j	156	GLY	C-N-CA	9.74	129.47	118.85
1	aB	8	GLY	N-CA-C	9.74	123.14	111.93
1	73	33	SER	O-C-N	-9.74	112.12	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7T	14	ALA	CA-C-O	-9.74	111.22	121.55
1	b4	67	GLN	N-CA-C	9.74	121.90	111.28
1	dN	167	ARG	NE-CZ-NH1	9.74	131.24	121.50
1	8O	101	GLY	O-C-N	-9.74	112.16	122.19
1	am	132	ARG	NE-CZ-NH2	-9.74	110.43	119.20
1	cj	143	ARG	N-CA-C	9.74	121.90	111.28
1	3y	193	ASN	CA-CB-CG	-9.74	102.86	112.60
1	4w	125	PRO	N-CA-CB	-9.74	96.28	102.81
1	d4	165	VAL	O-C-N	-9.74	111.80	121.83
1	eh	81	ASP	CA-C-N	9.74	134.12	120.29
1	eh	81	ASP	C-N-CA	9.74	134.12	120.29
1	eu	162	ARG	NE-CZ-NH2	-9.74	110.44	119.20
1	hm	12	HIS	CA-CB-CG	9.74	123.54	113.80
1	v	190	LEU	N-CA-C	9.74	121.49	111.07
1	hR	36	VAL	CA-C-N	9.74	126.37	120.24
1	hR	36	VAL	C-N-CA	9.74	126.37	120.24
1	k9	87	HIS	CA-CB-CG	9.74	123.54	113.80
1	4P	191	VAL	N-CA-C	-9.74	103.47	112.43
1	8g	143	ARG	NE-CZ-NH2	-9.74	110.44	119.20
1	dn	149	SER	N-CA-C	-9.74	92.98	109.24
1	fZ	118	MET	N-CA-C	9.74	121.66	111.14
1	3c	165	VAL	CA-C-N	9.73	133.32	120.28
1	3c	165	VAL	C-N-CA	9.73	133.32	120.28
1	56	50	GLN	N-CA-C	9.73	121.49	111.07
1	5d	122	PRO	CA-C-N	9.73	129.83	119.90
1	5d	122	PRO	C-N-CA	9.73	129.83	119.90
1	6L	135	ILE	CA-C-N	9.73	134.11	120.29
1	6L	135	ILE	C-N-CA	9.73	134.11	120.29
1	dP	33	SER	O-C-N	-9.73	113.27	121.54
1	eb	162	ARG	CA-C-N	9.73	133.32	120.28
1	eb	162	ARG	C-N-CA	9.73	133.32	120.28
1	ez	121	ASN	CA-C-O	-9.73	112.00	119.59
1	6S	146	SER	N-CA-C	9.73	122.19	109.83
1	ac	18	ARG	N-CA-C	9.73	121.89	111.28
1	17	103	ASP	CA-CB-CG	-9.73	102.87	112.60
1	eM	36	VAL	O-C-N	-9.73	112.21	121.94
1	O	134	ILE	CA-C-N	9.73	132.82	120.56
1	O	134	ILE	C-N-CA	9.73	132.82	120.56
1	hx	223	GLY	CA-C-O	-9.73	113.02	122.46
1	1O	87	HIS	CA-CB-CG	9.73	123.53	113.80
1	2U	149	SER	N-CA-C	9.73	122.89	110.24
1	35	212	GLU	N-CA-C	9.73	123.11	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	77	131	LYS	N-CA-C	9.73	122.90	111.71
1	7y	2	ILE	CA-C-N	9.73	133.57	120.63
1	7y	2	ILE	C-N-CA	9.73	133.57	120.63
1	dd	101	GLY	O-C-N	-9.73	111.92	122.24
1	fq	162	ARG	NE-CZ-NH1	9.73	131.23	121.50
1	57	171	THR	CA-C-N	9.73	134.11	120.29
1	57	171	THR	C-N-CA	9.73	134.11	120.29
1	b8	32	PHE	CA-CB-CG	-9.73	104.07	113.80
1	ha	167	ARG	CA-C-N	9.73	133.09	120.44
1	ha	167	ARG	C-N-CA	9.73	133.09	120.44
1	hD	95	GLN	OE1-CD-NE2	-9.73	112.87	122.60
1	iG	188	THR	O-C-N	9.73	131.32	121.79
1	2U	178	SER	CA-C-N	9.73	136.66	121.19
1	2U	178	SER	C-N-CA	9.73	136.66	121.19
1	6L	114	GLN	N-CA-C	9.73	121.48	111.07
1	8z	82	ARG	NE-CZ-NH1	9.73	131.23	121.50
1	bq	32	PHE	CA-CB-CG	-9.73	104.07	113.80
1	1u	167	ARG	NE-CZ-NH2	-9.73	110.44	119.20
1	k2	121	ASN	CA-C-O	-9.73	112.00	119.59
1	2u	92	GLU	CA-C-N	9.73	132.00	119.84
1	2u	92	GLU	C-N-CA	9.73	132.00	119.84
1	5I	172	LEU	N-CA-C	9.73	122.78	111.11
1	6k	185	MET	N-CA-C	9.73	121.48	111.07
1	ah	126	VAL	N-CA-C	9.73	121.71	110.62
1	jB	55	MET	N-CA-C	9.72	122.89	111.71
1	2T	115	ILE	CA-C-N	9.72	130.70	120.00
1	2T	115	ILE	C-N-CA	9.72	130.70	120.00
1	75	173	ARG	NE-CZ-NH1	9.72	131.22	121.50
1	3T	167	ARG	NE-CZ-NH2	-9.72	110.45	119.20
1	8P	147	PRO	N-CA-CB	-9.72	93.04	103.25
1	ab	20	LEU	CA-C-N	9.72	133.08	120.44
1	ab	20	LEU	C-N-CA	9.72	133.08	120.44
1	1h	24	VAL	N-CA-C	9.72	120.54	110.62
1	dI	53	ASN	CA-CB-CG	-9.72	102.88	112.60
1	eB	128	GLU	N-CA-C	9.72	121.64	111.14
1	gr	176	GLN	CA-C-N	9.72	134.60	120.90
1	gr	176	GLN	C-N-CA	9.72	134.60	120.90
1	iH	65	ALA	CA-C-N	9.72	134.09	120.29
1	iH	65	ALA	C-N-CA	9.72	134.09	120.29
1	jT	135	ILE	N-CA-C	9.72	120.53	110.62
1	2N	182	LYS	CA-C-N	9.72	133.07	120.44
1	lg	53	ASN	CA-CB-CG	-9.72	102.88	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2p	102	SER	N-CA-C	9.72	122.77	111.11
1	2N	182	LYS	C-N-CA	9.72	133.07	120.44
1	4s	153	ILE	CA-C-O	-9.72	109.96	121.04
1	9	36	VAL	N-CA-C	9.72	120.56	110.36
1	ci	173	ARG	NE-CZ-NH2	9.72	127.95	119.20
1	dC	44	SER	N-CA-C	9.72	123.27	112.97
1	e7	33	SER	N-CA-C	-9.72	99.38	108.13
1	es	230	VAL	O-C-N	-9.72	112.17	122.57
1	iH	25	LYS	N-CA-C	9.72	121.47	111.07
1	k1	59	VAL	N-CA-C	9.71	122.05	108.93
1	kF	67	GLN	N-CA-C	9.72	121.87	111.28
1	3O	98	GLU	CA-C-N	9.72	129.81	119.90
1	3O	98	GLU	C-N-CA	9.72	129.81	119.90
1	4x	174	ALA	N-CA-C	9.72	121.47	111.07
1	3v	214	MET	CG-SD-CE	-9.71	79.53	100.90
1	5f	217	ALA	O-C-N	-9.71	111.72	122.79
1	8i	117	TRP	N-CA-C	9.71	121.87	111.28
1	8o	111	LEU	CA-C-O	9.71	131.12	120.63
1	9X	143	ARG	N-CA-C	9.72	121.47	111.07
1	bB	230	VAL	CA-C-O	9.71	130.71	120.51
1	bG	125	PRO	CA-C-N	9.71	133.13	120.60
1	bG	125	PRO	C-N-CA	9.71	133.13	120.60
1	ev	25	LYS	N-CA-C	9.71	121.87	111.28
1	6a	223	GLY	CA-C-N	9.71	129.80	119.89
1	6a	223	GLY	C-N-CA	9.71	129.80	119.89
1	gU	163	ASP	CA-CB-CG	9.71	122.31	112.60
1	jV	84	HIS	CA-C-N	9.71	129.78	119.78
1	jV	84	HIS	C-N-CA	9.71	129.78	119.78
1	6Q	112	GLN	OE1-CD-NE2	-9.71	112.89	122.60
1	6S	164	TYR	CA-C-N	9.71	133.76	120.46
1	6S	164	TYR	C-N-CA	9.71	133.76	120.46
1	be	170	LYS	O-C-N	-9.71	111.08	122.15
1	hL	55	MET	N-CA-C	9.71	121.46	111.07
1	ie	155	GLN	OE1-CD-NE2	-9.71	112.89	122.60
1	kS	18	ARG	NE-CZ-NH2	9.71	127.94	119.20
1	lL	36	VAL	CA-C-N	9.71	128.10	120.33
1	lL	36	VAL	C-N-CA	9.71	128.10	120.33
1	5d	18	ARG	NE-CZ-NH2	-9.71	110.46	119.20
1	aA	195	ASN	CA-CB-CG	9.71	122.31	112.60
1	ft	132	ARG	NE-CZ-NH2	-9.71	110.46	119.20
1	hi	145	TYR	CA-C-N	9.70	133.39	120.58
1	hi	145	TYR	C-N-CA	9.70	133.39	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hk	132	ARG	NE-CZ-NH2	9.71	127.94	119.20
1	iq	33	SER	CA-C-O	-9.70	111.04	120.26
1	bW	92	GLU	CA-C-O	-9.71	111.12	119.76
1	c	57	ASN	OD1-CG-ND2	-9.70	112.90	122.60
1	gA	57	ASN	CA-CB-CG	-9.70	102.90	112.60
1	kF	100	ARG	NE-CZ-NH2	-9.70	110.47	119.20
1	3U	37	ILE	O-C-N	-9.70	114.21	120.42
1	5M	82	ARG	NE-CZ-NH2	-9.70	110.47	119.20
1	84	55	MET	CA-C-N	9.70	133.05	120.44
1	hn	209	ALA	O-C-N	-9.70	110.88	122.81
1	jz	53	ASN	CA-CB-CG	-9.70	102.90	112.60
1	6r	100	ARG	NE-CZ-NH2	-9.70	110.47	119.20
1	7D	228	ALA	CA-C-O	9.70	131.86	121.19
1	84	55	MET	C-N-CA	9.70	133.05	120.44
1	12	185	MET	N-CA-C	9.70	121.85	111.28
1	j2	62	HIS	CB-CG-CD2	-9.70	118.60	131.20
1	lf	38	PRO	CA-C-N	9.70	133.04	120.44
1	lf	38	PRO	C-N-CA	9.70	133.04	120.44
1	4B	24	VAL	N-CA-C	9.70	120.51	110.62
1	5z	36	VAL	CA-C-N	9.70	128.09	120.33
1	5z	36	VAL	C-N-CA	9.70	128.09	120.33
1	fj	115	ILE	CA-C-N	9.70	130.95	119.99
1	fj	115	ILE	C-N-CA	9.70	130.95	119.99
1	w	59	VAL	O-C-N	-9.70	112.78	122.67
1	hb	63	GLN	N-CA-C	9.69	121.85	111.28
1	br	209	ALA	N-CA-C	9.69	122.84	110.24
1	h4	140	LYS	N-CA-C	9.69	121.44	111.07
1	2H	66	MET	O-C-N	-9.69	111.84	122.12
1	3e	168	PHE	CA-C-O	9.69	131.00	120.82
1	jM	214	MET	N-CA-C	9.69	121.44	111.07
1	8m	124	ILE	O-C-N	-9.69	113.14	121.57
1	aw	218	CYS	CA-C-N	9.69	133.27	120.28
1	aw	218	CYS	C-N-CA	9.69	133.27	120.28
1	bi	173	ARG	N-CA-C	9.69	121.44	111.07
1	s	36	VAL	CA-C-N	9.69	128.08	120.33
1	s	36	VAL	C-N-CA	9.69	128.08	120.33
1	gf	84	HIS	CA-CB-CG	9.69	123.49	113.80
1	gB	25	LYS	N-CA-C	9.69	121.84	111.28
1	dR	53	ASN	CA-CB-CG	-9.69	102.91	112.60
1	fF	91	ILE	CA-C-N	9.69	133.86	120.39
1	fF	91	ILE	C-N-CA	9.69	133.86	120.39
1	fP	126	VAL	CA-C-N	9.69	130.70	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fP	126	VAL	C-N-CA	9.69	130.70	119.94
1	5	164	TYR	N-CA-C	9.69	121.44	111.07
1	i0	121	ASN	CA-C-O	-9.69	112.03	119.59
1	lp	179	GLN	OE1-CD-NE2	-9.69	112.91	122.60
1	8A	61	GLY	O-C-N	-9.69	113.66	123.35
1	aM	118	MET	N-CA-C	9.69	122.85	111.71
1	l8	50	GLN	CA-C-N	9.69	133.03	120.44
1	l8	50	GLN	C-N-CA	9.69	133.03	120.44
1	lI	13	GLN	OE1-CD-NE2	-9.69	112.92	122.60
1	5P	66	MET	N-CA-C	9.69	121.84	111.28
1	fG	206	GLY	CA-C-N	9.69	130.87	120.12
1	fG	206	GLY	C-N-CA	9.69	130.87	120.12
1	h7	163	ASP	N-CA-C	9.68	121.83	111.28
1	iT	146	SER	O-C-N	-9.68	112.44	121.35
1	kp	84	HIS	CA-CB-CG	-9.68	104.12	113.80
1	7B	146	SER	O-C-N	-9.68	113.39	121.23
1	bH	205	LEU	N-CA-C	9.68	121.43	111.07
1	k7	45	GLU	N-CA-C	9.68	122.73	111.11
1	7v	97	ARG	N-CA-C	9.68	123.89	110.24
1	cx	24	VAL	CA-C-N	9.68	133.03	120.44
1	cx	24	VAL	C-N-CA	9.68	133.03	120.44
1	r	12	HIS	CA-CB-CG	9.68	123.48	113.80
1	h8	89	GLY	CA-C-N	9.68	129.75	119.78
1	h8	89	GLY	C-N-CA	9.68	129.75	119.78
1	fi	192	GLN	N-CA-C	9.68	121.83	111.28
1	if	76	GLU	N-CA-C	9.68	123.05	111.82
1	iE	20	LEU	N-CA-C	9.68	121.83	111.28
1	jp	185	MET	N-CA-C	9.68	121.83	111.28
1	4b	125	PRO	CA-C-N	9.68	133.45	120.77
1	4b	125	PRO	C-N-CA	9.68	133.45	120.77
1	4K	114	GLN	OE1-CD-NE2	9.68	132.28	122.60
1	9s	166	ASP	CA-C-N	9.68	133.02	120.44
1	9s	166	ASP	C-N-CA	9.68	133.02	120.44
1	cm	227	LYS	O-C-N	-9.68	111.99	123.31
1	dw	68	MET	N-CA-C	9.68	121.83	111.28
1	6j	11	VAL	CA-C-N	-9.68	109.50	123.05
1	6j	11	VAL	C-N-CA	-9.68	109.50	123.05
1	6s	183	ASN	OD1-CG-ND2	-9.68	112.92	122.60
1	6v	89	GLY	CA-C-N	9.68	129.77	119.90
1	6v	89	GLY	C-N-CA	9.68	129.77	119.90
1	7p	98	GLU	O-C-N	-9.68	112.69	121.30
1	b8	48	THR	O-C-N	-9.68	112.49	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fT	179	GLN	CA-C-O	-9.68	110.66	120.82
1	it	18	ARG	NE-CZ-NH1	9.67	131.17	121.50
1	8R	184	TRP	CA-C-N	9.67	133.24	120.28
1	gq	33	SER	N-CA-C	-9.67	99.52	108.22
1	ky	33	SER	CA-C-O	-9.67	110.05	120.88
1	lD	193	ASN	OD1-CG-ND2	-9.67	112.93	122.60
1	5h	73	ILE	N-CA-C	9.67	120.52	110.36
1	5l	183	ASN	CA-CB-CG	-9.67	102.93	112.60
1	5v	3	VAL	CA-C-N	9.67	133.24	120.28
1	5v	3	VAL	C-N-CA	9.67	133.24	120.28
1	6Z	124	ILE	CA-C-O	-9.67	114.91	119.94
1	8R	184	TRP	C-N-CA	9.67	133.24	120.28
1	ce	75	GLU	N-CA-C	9.67	121.42	111.07
1	f9	135	ILE	CB-CA-C	9.67	125.20	112.14
1	h5	156	GLY	O-C-N	-9.67	113.72	122.42
1	hY	146	SER	O-C-N	-9.67	111.87	120.48
1	id	41	SER	N-CA-C	9.67	121.58	111.14
1	lP	2	ILE	N-CA-CB	9.67	122.03	111.00
1	2C	100	ARG	CA-C-N	9.67	130.67	119.94
1	2C	100	ARG	C-N-CA	9.67	130.67	119.94
1	7w	211	LEU	N-CA-C	9.67	123.03	111.33
1	8X	224	PRO	CA-C-N	9.67	130.86	120.03
1	8X	224	PRO	C-N-CA	9.67	130.86	120.03
1	2N	167	ARG	NE-CZ-NH1	9.67	131.17	121.50
1	6W	154	ARG	NH1-CZ-NH2	-9.67	106.73	119.30
1	9Y	178	SER	CA-C-N	9.67	133.01	120.44
1	9Y	178	SER	C-N-CA	9.67	133.01	120.44
1	er	87	HIS	CA-CB-CG	-9.67	104.13	113.80
1	fH	124	ILE	O-C-N	-9.67	113.92	121.46
1	jH	152	ASP	CA-CB-CG	9.67	122.27	112.60
1	kg	37	ILE	N-CA-CB	9.67	117.00	110.52
1	bU	5	ASN	OD1-CG-ND2	-9.67	112.93	122.60
1	iq	27	VAL	N-CA-C	9.67	119.70	110.42
1	kU	114	GLN	OE1-CD-NE2	-9.67	112.93	122.60
1	5d	84	HIS	O-C-N	9.67	129.31	121.38
1	a0	189	LEU	N-CA-C	9.67	122.71	111.11
1	bx	81	ASP	CA-CB-CG	9.67	122.27	112.60
1	r	180	GLU	N-CA-C	9.67	121.82	111.28
1	gU	130	TYR	CA-C-N	9.66	133.23	120.28
1	gU	130	TYR	C-N-CA	9.66	133.23	120.28
1	i4	56	LEU	N-CA-C	9.66	121.41	111.07
1	2P	132	ARG	N-CA-C	9.66	121.41	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	33	146	SER	O-C-N	-9.66	113.93	121.47
1	4x	197	ASP	CA-CB-CG	-9.66	102.94	112.60
1	5K	43	LEU	CA-C-O	9.66	131.08	119.97
1	6l	24	VAL	O-C-N	-9.66	112.44	121.91
1	7D	191	VAL	N-CA-C	9.66	120.48	110.62
1	92	221	VAL	CA-C-N	9.66	130.71	119.98
1	cj	192	GLN	CA-C-N	9.66	133.23	120.28
1	cj	192	GLN	C-N-CA	9.66	133.23	120.28
1	df	172	LEU	CA-C-N	9.66	133.59	120.54
1	df	172	LEU	C-N-CA	9.66	133.59	120.54
1	kV	12	HIS	CG-CD2-NE2	9.66	116.86	107.20
1	5q	169	TYR	N-CA-C	9.66	121.89	111.36
1	7q	164	TYR	N-CA-C	9.66	121.89	111.36
1	92	221	VAL	C-N-CA	9.66	130.71	119.98
1	aC	124	ILE	N-CA-CB	9.66	123.12	111.23
1	aE	198	CYS	N-CA-C	9.66	121.81	111.28
1	bp	40	PHE	CA-CB-CG	-9.66	104.14	113.80
1	1M	213	GLU	N-CA-C	9.66	121.89	111.36
1	kg	82	ARG	NE-CZ-NH1	9.66	131.16	121.50
1	kT	213	GLU	N-CA-C	9.66	121.89	111.36
1	aW	196	PRO	CA-C-N	9.66	133.22	120.28
1	aW	196	PRO	C-N-CA	9.66	133.22	120.28
1	e9	55	MET	O-C-N	-9.66	111.88	122.12
1	df	144	MET	O-C-N	-9.66	111.88	122.12
1	fe	83	LEU	O-C-N	-9.66	110.75	122.34
1	3u	33	SER	CA-C-O	-9.66	112.31	120.71
1	3y	64	ALA	N-CA-C	9.66	121.81	111.28
1	4l	195	ASN	CA-C-O	-9.66	110.67	119.75
1	aP	201	ILE	N-CA-C	-9.66	100.97	110.72
1	c9	49	PRO	CA-C-N	9.66	133.22	120.28
1	c9	49	PRO	C-N-CA	9.66	133.22	120.28
1	e3	214	MET	CA-C-N	9.66	133.22	120.28
1	eL	37	ILE	N-CA-CB	-9.66	102.92	110.45
1	fA	63	GLN	OE1-CD-NE2	-9.66	112.94	122.60
1	aS	80	TRP	N-CA-C	9.66	121.40	111.07
1	bp	57	ASN	CA-CB-CG	-9.66	102.94	112.60
1	ce	92	GLU	CA-C-N	9.66	130.26	119.83
1	ce	92	GLU	C-N-CA	9.66	130.26	119.83
1	e3	214	MET	C-N-CA	9.66	133.22	120.28
1	2	59	VAL	N-CA-C	9.66	122.41	109.37
1	40	29	GLU	CA-C-O	9.65	130.96	120.82
1	93	206	GLY	CA-C-N	9.65	129.91	119.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	93	206	GLY	C-N-CA	9.65	129.91	119.87
1	cS	82	ARG	CA-C-N	9.65	134.18	120.28
1	kT	173	ARG	NE-CZ-NH1	9.65	131.15	121.50
1	c3	197	ASP	N-CA-C	9.65	121.80	111.28
1	cS	82	ARG	C-N-CA	9.65	134.18	120.28
1	dH	139	ASN	O-C-N	-9.65	112.12	122.07
1	ch	162	ARG	N-CA-C	9.65	121.40	111.07
1	0	92	GLU	O-C-N	-9.65	110.62	121.43
1	3	173	ARG	NE-CZ-NH2	-9.65	110.51	119.20
1	iw	5	ASN	CA-CB-CG	-9.65	102.95	112.60
1	kU	5	ASN	CA-CB-CG	9.65	122.25	112.60
1	fR	75	GLU	CA-C-N	9.65	133.21	120.28
1	fR	75	GLU	C-N-CA	9.65	133.21	120.28
1	2l	142	VAL	N-CA-C	9.65	120.46	110.62
1	3j	87	HIS	CA-CB-CG	-9.65	104.15	113.80
1	6k	74	ASN	CA-CB-CG	-9.65	102.95	112.60
1	g9	203	LYS	N-CA-C	9.65	121.80	111.28
1	iM	25	LYS	N-CA-C	9.65	121.80	111.28
1	jv	226	HIS	CA-CB-CG	9.65	123.45	113.80
1	3G	115	ILE	N-CA-C	9.65	120.46	110.62
1	ig	92	GLU	CA-C-N	9.65	131.90	119.84
1	ig	92	GLU	C-N-CA	9.65	131.90	119.84
1	jQ	126	VAL	N-CA-CB	9.65	122.53	110.47
1	2P	154	ARG	N-CA-C	9.65	122.78	110.24
1	bi	32	PHE	CA-CB-CG	-9.65	104.15	113.80
1	iQ	212	GLU	N-CA-C	9.65	121.79	111.28
1	7Z	226	HIS	CB-CG-CD2	-9.65	118.66	131.20
1	bC	83	LEU	CA-C-O	9.65	130.65	120.42
1	fp	70	LYS	CA-C-N	9.65	133.21	120.28
1	fp	70	LYS	C-N-CA	9.65	133.21	120.28
1	he	11	VAL	O-C-N	-9.64	112.98	123.20
1	8e	36	VAL	CA-C-N	9.64	126.32	120.24
1	8e	36	VAL	C-N-CA	9.64	126.32	120.24
1	8A	120	HIS	CA-CB-CG	9.64	123.44	113.80
1	bq	174	ALA	N-CA-C	9.64	122.80	111.71
1	ei	181	VAL	N-CA-C	9.64	120.46	110.72
1	1L	81	ASP	CA-C-N	9.64	133.20	120.28
1	1L	81	ASP	C-N-CA	9.64	133.20	120.28
1	i4	173	ARG	NE-CZ-NH1	9.64	131.14	121.50
1	ij	176	GLN	CA-C-O	9.64	134.30	120.51
1	ke	229	ARG	NE-CZ-NH1	9.64	131.14	121.50
1	lx	29	GLU	N-CA-C	9.64	122.68	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Q	224	PRO	N-CA-CB	9.64	113.37	103.25
1	38	173	ARG	N-CA-C	9.64	121.79	111.28
1	3U	214	MET	N-CA-C	9.64	121.79	111.28
1	8G	36	VAL	CA-C-N	9.64	128.04	120.33
1	8G	36	VAL	C-N-CA	9.64	128.04	120.33
1	aW	167	ARG	NE-CZ-NH1	9.64	131.14	121.50
1	lk	95	GLN	OE1-CD-NE2	9.64	132.24	122.60
1	lL	190	LEU	N-CA-C	9.64	121.78	111.28
1	5n	10	MET	N-CA-C	9.64	124.46	110.10
1	5W	27	VAL	N-CA-C	9.64	120.45	110.62
1	dv	16	SER	O-C-N	-9.64	113.95	121.47
1	dA	121	ASN	CB-CA-C	9.64	120.84	109.47
1	gg	167	ARG	NE-CZ-NH1	9.64	131.14	121.50
1	jz	155	GLN	OE1-CD-NE2	-9.64	112.96	122.60
1	2M	192	GLN	N-CA-C	9.64	121.38	111.07
1	2O	133	TRP	CB-CG-CD2	-9.64	113.31	126.80
1	7e	225	GLY	O-C-N	-9.64	114.15	122.92
1	7z	67	GLN	CA-C-N	9.64	133.19	120.28
1	7z	67	GLN	C-N-CA	9.64	133.19	120.28
1	1N	150	ILE	CA-C-O	9.63	130.88	120.57
1	ih	48	THR	CA-C-N	9.63	129.26	119.24
1	ih	48	THR	C-N-CA	9.63	129.26	119.24
1	7o	159	GLU	N-CA-C	9.63	120.68	109.60
1	fx	91	ILE	CA-C-N	9.63	134.48	120.51
1	fx	91	ILE	C-N-CA	9.63	134.48	120.51
1	hj	193	ASN	CA-C-O	-9.63	110.20	120.99
1	hM	65	ALA	N-CA-C	9.63	121.38	111.07
1	7i	79	GLU	N-CA-C	9.63	121.38	111.07
1	aO	21	ASN	CA-CB-CG	-9.63	102.97	112.60
1	fa	163	ASP	CA-C-N	9.63	132.96	120.44
1	fa	163	ASP	C-N-CA	9.63	132.96	120.44
1	2K	57	ASN	CA-CB-CG	-9.63	102.97	112.60
1	8E	100	ARG	NE-CZ-NH2	9.63	127.87	119.20
1	9s	137	GLY	CA-C-N	9.63	133.19	120.28
1	9s	137	GLY	C-N-CA	9.63	133.19	120.28
1	ah	115	ILE	N-CA-C	9.63	120.44	110.62
1	cO	89	GLY	O-C-N	-9.63	112.14	121.77
1	aT	195	ASN	OD1-CG-ND2	-9.63	112.97	122.60
1	eP	221	VAL	O-C-N	-9.63	113.45	122.79
1	5v	118	MET	N-CA-C	9.63	121.78	111.28
1	7X	96	MET	N-CA-C	9.63	123.45	110.35
1	ip	213	GLU	N-CA-C	9.63	121.46	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	118	MET	N-CA-C	9.63	124.07	111.75
1	6l	21	ASN	CB-CG-ND2	9.63	130.84	116.40
1	8k	21	ASN	CA-CB-CG	9.63	122.23	112.60
1	2O	133	TRP	CB-CG-CD1	9.63	141.34	126.90
1	60	188	THR	N-CA-C	9.63	121.37	111.07
1	aJ	173	ARG	NE-CZ-NH1	9.63	131.13	121.50
1	bH	226	HIS	CA-CB-CG	9.63	123.43	113.80
1	Q	224	PRO	CB-CA-C	-9.63	99.81	111.46
1	gB	21	ASN	OD1-CG-ND2	-9.62	112.97	122.60
1	iQ	201	ILE	N-CA-C	9.63	119.66	110.42
1	3F	59	VAL	N-CA-C	9.63	121.91	109.30
1	eC	2	ILE	N-CA-CB	9.63	121.21	110.72
1	g2	16	SER	CA-C-N	9.63	129.38	119.56
1	g2	16	SER	C-N-CA	9.63	129.38	119.56
1	D	143	ARG	NH1-CZ-NH2	-9.63	106.79	119.30
1	jg	163	ASP	O-C-N	-9.62	112.16	122.07
1	7u	63	GLN	N-CA-C	9.62	121.77	111.28
1	ft	189	LEU	CA-C-O	9.62	130.75	120.55
1	fI	200	THR	CA-C-N	9.62	132.69	120.56
1	fI	200	THR	C-N-CA	9.62	132.69	120.56
1	gm	18	ARG	N-CA-C	9.62	121.77	111.28
1	hn	214	MET	O-C-N	-9.62	112.16	122.07
1	hs	146	SER	CA-C-O	-9.62	111.28	119.36
1	i1	84	HIS	CA-C-N	9.62	129.70	119.89
1	i1	84	HIS	C-N-CA	9.62	129.70	119.89
1	3I	32	PHE	CA-CB-CG	-9.62	104.18	113.80
1	3R	85	PRO	CB-CA-C	9.62	123.86	111.64
1	c0	125	PRO	CA-C-N	9.62	133.64	120.46
1	c0	125	PRO	C-N-CA	9.62	133.64	120.46
1	69	125	PRO	N-CA-CB	-9.62	95.71	102.73
1	89	84	HIS	O-C-N	9.62	128.62	121.12
1	ac	63	GLN	CA-C-O	-9.62	110.35	120.55
1	aw	33	SER	N-CA-C	-9.62	95.70	108.11
1	b9	115	ILE	CA-C-N	9.62	130.86	119.99
1	b9	115	ILE	C-N-CA	9.62	130.86	119.99
1	4b	177	ALA	CA-C-N	9.62	134.46	120.90
1	4b	177	ALA	C-N-CA	9.62	134.46	120.90
1	4f	126	VAL	N-CA-C	9.62	121.58	110.62
1	64	57	ASN	CA-C-N	9.62	133.17	120.28
1	64	57	ASN	C-N-CA	9.62	133.17	120.28
1	9Z	53	ASN	CA-CB-CG	-9.62	102.98	112.60
1	c6	124	ILE	CB-CA-C	9.62	122.11	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c6	178	SER	N-CA-C	9.62	122.74	110.24
1	5C	100	ARG	NE-CZ-NH2	-9.62	110.54	119.20
1	fb	165	VAL	N-CA-C	9.62	119.65	110.42
1	3l	125	PRO	N-CA-CB	9.62	109.14	102.79
1	5i	114	GLN	N-CA-C	9.62	121.76	111.28
1	cl	161	PHE	N-CA-C	9.62	121.76	111.28
1	6w	32	PHE	CA-CB-CG	-9.61	104.19	113.80
1	bf	121	ASN	CA-CB-CG	9.62	122.22	112.60
1	dZ	166	ASP	CA-CB-CG	9.61	122.21	112.60
1	e5	188	THR	CA-C-O	9.62	126.51	119.68
1	fN	115	ILE	O-C-N	-9.61	112.49	121.91
1	h4	169	TYR	N-CA-C	9.61	122.97	111.82
1	im	124	ILE	N-CA-CB	9.61	122.65	111.31
1	63	18	ARG	NE-CZ-NH1	9.61	131.11	121.50
1	7b	178	SER	N-CA-C	9.61	122.23	110.41
1	bv	89	GLY	CA-C-N	9.61	129.68	119.78
1	bv	89	GLY	C-N-CA	9.61	129.68	119.78
1	1s	195	ASN	OD1-CG-ND2	-9.61	112.99	122.60
1	fR	16	SER	CA-C-O	-9.61	112.21	119.32
1	jL	229	ARG	N-CA-C	9.61	124.45	110.42
1	96	91	ILE	N-CA-C	-9.61	95.98	107.70
1	9c	14	ALA	N-CA-C	9.61	123.02	110.43
1	aO	177	ALA	CA-C-N	9.61	134.36	120.71
1	aO	177	ALA	C-N-CA	9.61	134.36	120.71
1	1J	36	VAL	N-CA-C	9.61	120.42	110.62
1	cv	90	PRO	CA-C-N	9.61	133.38	120.50
1	cv	90	PRO	C-N-CA	9.61	133.38	120.50
1	cB	226	HIS	CA-CB-CG	9.61	123.41	113.80
1	6l	75	GLU	N-CA-C	9.61	121.75	111.28
1	7r	195	ASN	OD1-CG-ND2	-9.61	112.99	122.60
1	lu	57	ASN	CA-CB-CG	-9.61	103.00	112.60
1	3o	55	MET	O-C-N	-9.61	111.94	122.12
1	6D	114	GLN	N-CA-C	9.61	121.35	111.07
1	7I	18	ARG	NE-CZ-NH2	-9.61	110.55	119.20
1	88	105	ALA	CA-C-O	9.61	130.61	119.18
1	8a	143	ARG	N-CA-C	9.61	121.75	111.28
1	16	199	LYS	N-CA-C	9.61	122.95	111.33
1	b8	68	MET	N-CA-C	9.61	121.35	111.07
1	gj	166	ASP	CA-CB-CG	9.60	122.20	112.60
1	hI	4	GLN	OE1-CD-NE2	-9.60	113.00	122.60
1	as	114	GLN	O-C-N	-9.60	112.18	122.07
1	eV	28	GLU	N-CA-C	9.60	122.74	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jv	140	LYS	N-CA-C	9.60	121.34	111.07
1	ky	190	LEU	N-CA-C	9.60	121.75	111.28
1	3H	68	MET	CA-C-N	9.60	132.92	120.44
1	3H	68	MET	C-N-CA	9.60	132.92	120.44
1	4c	89	GLY	CA-C-N	9.60	131.84	119.84
1	4c	89	GLY	C-N-CA	9.60	131.84	119.84
1	79	52	LEU	CA-C-N	9.60	132.92	120.44
1	79	52	LEU	C-N-CA	9.60	132.92	120.44
1	bn	52	LEU	N-CA-C	9.60	121.75	111.28
1	7J	63	GLN	N-CA-C	9.60	122.96	111.82
1	au	200	THR	CA-C-N	9.60	133.35	120.77
1	au	200	THR	C-N-CA	9.60	133.35	120.77
1	k	54	THR	O-C-N	-9.60	112.18	122.07
1	ie	218	CYS	N-CA-C	9.60	124.70	111.74
1	4m	226	HIS	CA-CB-CG	-9.60	104.20	113.80
1	kd	24	VAL	N-CA-C	9.60	120.41	110.72
1	kn	144	MET	CA-C-O	9.60	130.72	120.55
1	40	29	GLU	O-C-N	-9.60	112.18	122.07
1	4W	57	ASN	CA-CB-CG	-9.60	103.00	112.60
1	6T	188	THR	CA-C-N	9.60	133.50	120.54
1	6T	188	THR	C-N-CA	9.60	133.50	120.54
1	8s	65	ALA	N-CA-C	9.60	121.74	111.28
1	aI	5	ASN	OD1-CG-ND2	-9.60	113.00	122.60
1	x	20	LEU	CA-C-N	9.60	133.14	120.28
1	x	20	LEU	C-N-CA	9.60	133.14	120.28
1	5v	21	ASN	N-CA-C	9.60	121.34	111.07
1	7J	62	HIS	ND1-CE1-NE2	9.60	118.00	108.40
1	f	33	SER	O-C-N	-9.60	115.13	121.85
1	5q	117	TRP	N-CA-C	9.60	121.74	111.28
1	gQ	103	ASP	CA-CB-CG	-9.60	103.00	112.60
1	iA	120	HIS	CG-CD2-NE2	9.60	116.80	107.20
1	li	206	GLY	CA-C-N	9.60	130.77	120.12
1	li	206	GLY	C-N-CA	9.60	130.77	120.12
1	15	27	VAL	O-C-N	-9.60	112.50	121.91
1	6f	75	GLU	N-CA-C	9.60	121.50	111.14
1	6w	92	GLU	CA-C-O	9.60	127.53	119.66
1	9T	53	ASN	CA-CB-CG	-9.60	103.00	112.60
1	d7	128	GLU	N-CA-C	9.60	121.74	111.28
1	1k	217	ALA	N-CA-C	9.60	124.40	110.10
1	eO	212	GLU	N-CA-C	9.60	122.62	111.11
1	h8	18	ARG	NE-CZ-NH2	-9.59	110.57	119.20
1	j7	37	ILE	N-CA-CB	9.59	117.93	110.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j9	14	ALA	N-CA-C	9.59	123.39	110.35
1	4x	31	ALA	N-CA-C	9.59	124.03	111.75
1	ef	141	ILE	CA-C-N	9.59	132.65	120.56
1	ef	141	ILE	C-N-CA	9.59	132.65	120.56
1	fR	166	ASP	CB-CA-C	9.59	125.73	110.96
1	gp	180	GLU	N-CA-C	9.59	122.95	111.82
1	29	86	VAL	N-CA-C	9.59	124.93	109.78
1	3h	33	SER	CA-C-O	-9.59	111.68	120.50
1	54	40	PHE	N-CA-C	9.59	121.73	111.28
1	5Q	87	HIS	N-CA-C	9.59	124.83	110.64
1	8x	124	ILE	N-CA-C	-9.59	96.80	107.73
1	at	114	GLN	OE1-CD-NE2	-9.59	113.01	122.60
1	aL	126	VAL	CA-C-N	9.59	130.39	119.94
1	aL	126	VAL	C-N-CA	9.59	130.39	119.94
1	bV	120	HIS	CA-CB-CG	9.59	123.39	113.80
1	1g	162	ARG	CA-C-N	9.59	133.91	120.29
1	1g	162	ARG	C-N-CA	9.59	133.91	120.29
1	eo	33	SER	O-C-N	-9.59	114.35	121.83
1	fT	191	VAL	N-CA-C	9.59	120.41	110.72
1	iu	110	THR	N-CA-CB	9.59	126.71	111.56
1	ld	163	ASP	CA-C-N	9.59	133.13	120.28
1	3y	220	GLY	N-CA-C	9.59	124.81	112.54
1	3X	112	GLN	OE1-CD-NE2	-9.59	113.01	122.60
1	5y	173	ARG	N-CA-C	9.59	121.73	111.28
1	a4	229	ARG	NE-CZ-NH2	-9.59	110.57	119.20
1	hw	203	LYS	CA-C-N	9.59	132.90	120.44
1	hw	203	LYS	C-N-CA	9.59	132.90	120.44
1	hW	153	ILE	O-C-N	-9.59	112.23	122.68
1	kV	152	ASP	N-CA-C	9.59	121.73	111.28
1	ld	163	ASP	C-N-CA	9.59	133.13	120.28
1	6t	171	THR	N-CA-C	9.59	121.33	111.07
1	bT	171	THR	N-CA-CB	9.59	123.91	110.01
1	dl	97	ARG	O-C-N	-9.59	111.53	122.75
1	ez	173	ARG	NE-CZ-NH2	-9.59	110.57	119.20
1	a5	160	PRO	N-CA-C	9.59	126.45	111.21
1	bW	82	ARG	NE-CZ-NH1	9.59	131.09	121.50
1	f1	100	ARG	NE-CZ-NH2	-9.59	110.57	119.20
1	gd	150	ILE	N-CA-C	9.58	120.39	110.62
1	gg	102	SER	N-CA-C	9.58	121.73	111.28
1	h8	133	TRP	CB-CG-CD2	-9.58	113.38	126.80
1	4n	110	THR	O-C-N	-9.58	112.20	123.03
1	7q	82	ARG	NE-CZ-NH2	-9.58	110.57	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cg	213	GLU	N-CA-C	9.58	121.73	111.28
1	eE	197	ASP	CA-CB-CG	-9.58	103.02	112.60
1	25	66	MET	O-C-N	-9.58	111.96	122.12
1	7C	212	GLU	N-CA-C	9.58	121.72	111.28
1	bC	163	ASP	CA-CB-CG	-9.58	103.02	112.60
1	j6	20	LEU	O-C-N	-9.58	111.96	122.12
1	jU	37	ILE	N-CA-CB	9.58	116.54	110.50
1	2G	77	ALA	N-CA-C	9.58	121.32	111.07
1	40	63	GLN	N-CA-C	9.58	122.93	111.82
1	6D	167	ARG	NE-CZ-NH2	-9.58	110.58	119.20
1	7Y	82	ARG	NE-CZ-NH1	9.58	131.08	121.50
1	bk	12	HIS	CG-CD2-NE2	9.58	116.78	107.20
1	bw	200	THR	N-CA-C	9.58	122.92	111.33
1	bg	184	TRP	CB-CG-CD1	-9.58	112.53	126.90
1	cq	48	THR	N-CA-CB	9.58	124.10	110.11
1	eH	149	SER	CA-C-N	9.58	133.59	120.46
1	eH	149	SER	C-N-CA	9.58	133.59	120.46
1	fn	111	LEU	O-C-N	-9.58	112.20	122.07
1	2a	217	ALA	N-CA-C	9.58	124.12	110.23
1	7m	166	ASP	N-CA-CB	-9.58	95.67	109.94
1	8o	126	VAL	N-CA-C	9.58	120.42	110.36
1	iS	40	PHE	CA-C-N	9.58	133.11	120.28
1	iS	40	PHE	C-N-CA	9.58	133.11	120.28
1	2c	146	SER	N-CA-C	9.58	121.80	109.64
1	3S	26	VAL	N-CA-C	9.58	119.61	110.42
1	6P	167	ARG	NE-CZ-NH1	9.58	131.08	121.50
1	8G	166	ASP	N-CA-C	9.58	121.72	111.28
1	eg	65	ALA	N-CA-C	9.58	122.93	111.82
1	8U	21	ASN	CA-CB-CG	9.58	122.18	112.60
1	iN	41	SER	N-CA-C	9.57	121.71	111.28
1	kD	79	GLU	CA-C-N	9.57	133.46	120.54
1	kD	79	GLU	C-N-CA	9.57	133.46	120.54
1	7S	140	LYS	N-CA-C	9.57	121.31	111.07
1	9w	16	SER	CA-C-O	-9.57	112.09	119.46
1	a3	53	ASN	CA-CB-CG	-9.57	103.03	112.60
1	es	150	ILE	N-CA-C	9.57	121.53	110.62
1	fm	98	GLU	CA-C-N	9.57	129.66	119.89
1	fm	98	GLU	C-N-CA	9.57	129.66	119.89
1	h7	66	MET	N-CA-C	9.57	121.71	111.28
1	9C	195	ASN	CA-CB-CG	9.57	122.17	112.60
1	gj	183	ASN	CA-CB-CG	-9.57	103.03	112.60
1	i6	74	ASN	N-CA-C	9.57	124.29	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	187	GLU	N-CA-C	9.57	121.79	111.36
1	7c	155	GLN	CA-C-O	9.57	131.97	121.16
1	bc	97	ARG	CA-C-N	9.57	134.52	120.83
1	bc	97	ARG	C-N-CA	9.57	134.52	120.83
1	dH	125	PRO	CA-C-N	9.57	133.57	120.46
1	dH	125	PRO	C-N-CA	9.57	133.57	120.46
1	hy	120	HIS	CA-CB-CG	9.57	123.37	113.80
1	iH	120	HIS	CA-CB-CG	9.57	123.37	113.80
1	j7	51	ASP	N-CA-C	9.57	121.31	111.07
1	aC	37	ILE	O-C-N	-9.57	114.30	120.42
1	1e	60	GLY	CA-C-N	-9.57	113.92	122.43
1	1e	60	GLY	C-N-CA	-9.57	113.92	122.43
1	H	6	LEU	N-CA-C	9.57	121.71	111.28
1	gh	79	GLU	CA-C-N	9.56	132.87	120.44
1	gh	79	GLU	C-N-CA	9.56	132.87	120.44
1	6z	65	ALA	O-C-N	-9.56	112.14	122.09
1	24	21	ASN	CA-C-N	9.56	132.87	120.44
1	24	21	ASN	C-N-CA	9.56	132.87	120.44
1	2f	78	ALA	N-CA-C	9.56	121.78	111.36
1	9q	154	ARG	NE-CZ-NH2	9.56	127.81	119.20
1	b8	138	LEU	CA-C-N	9.56	134.05	120.28
1	b8	138	LEU	C-N-CA	9.56	134.05	120.28
1	ds	68	MET	N-CA-C	9.56	122.59	111.11
1	h2	64	ALA	N-CA-C	9.56	122.91	111.82
1	hM	132	ARG	NE-CZ-NH2	-9.56	110.59	119.20
1	hv	164	TYR	CA-C-N	9.56	133.56	120.46
1	hv	164	TYR	C-N-CA	9.56	133.56	120.46
1	jj	64	ALA	N-CA-C	9.56	121.70	111.28
1	lg	21	ASN	CA-CB-CG	-9.56	103.04	112.60
1	4I	199	LYS	N-CA-C	9.56	121.30	111.07
1	5C	170	LYS	CA-C-N	9.56	133.09	120.28
1	5C	170	LYS	C-N-CA	9.56	133.09	120.28
1	8J	37	ILE	N-CA-CB	9.56	116.93	110.52
1	9e	39	MET	CA-C-N	9.56	133.09	120.28
1	9e	39	MET	C-N-CA	9.56	133.09	120.28
1	aZ	100	ARG	NE-CZ-NH2	-9.56	110.59	119.20
1	cB	163	ASP	N-CA-C	9.56	122.69	111.02
1	ge	74	ASN	CA-CB-CG	9.56	122.16	112.60
1	6j	173	ARG	N-CA-C	9.56	121.70	111.28
1	87	66	MET	CA-C-O	9.56	130.95	120.63
1	bn	188	THR	N-CA-C	9.56	121.30	111.07
1	1m	154	ARG	NE-CZ-NH2	9.56	127.80	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g9	47	ALA	CA-C-O	9.56	131.70	121.19
1	1H	139	ASN	CA-CB-CG	9.56	122.16	112.60
1	j4	133	TRP	CA-C-O	9.56	130.96	119.97
1	9z	213	GLU	CA-C-N	9.56	132.86	120.44
1	9z	213	GLU	C-N-CA	9.56	132.86	120.44
1	ce	80	TRP	N-CA-C	9.56	122.89	111.33
1	fD	81	ASP	CA-C-O	9.56	131.13	120.90
1	a	159	GLU	N-CA-C	9.56	121.69	109.65
1	iy	229	ARG	NE-CZ-NH1	9.55	131.06	121.50
1	8d	204	ALA	O-C-N	-9.55	112.15	122.09
1	b5	50	GLN	N-CA-C	9.55	122.58	111.11
1	1v	113	GLU	CA-C-N	9.56	132.86	120.44
1	1v	113	GLU	C-N-CA	9.56	132.86	120.44
1	1M	82	ARG	NE-CZ-NH1	9.55	131.05	121.50
1	ie	223	GLY	CA-C-N	9.55	130.14	119.92
1	ie	223	GLY	C-N-CA	9.55	130.14	119.92
1	j1	195	ASN	CA-C-O	-9.55	111.69	119.71
1	jp	212	GLU	CA-C-N	9.55	132.86	120.44
1	jp	212	GLU	C-N-CA	9.55	132.86	120.44
1	3k	94	GLY	O-C-N	-9.55	114.75	123.54
1	3p	18	ARG	NE-CZ-NH2	-9.55	110.60	119.20
1	6I	212	GLU	N-CA-C	9.55	122.57	111.11
1	90	32	PHE	CA-CB-CG	-9.55	104.25	113.80
1	c2	98	GLU	O-C-N	-9.55	112.80	121.30
1	fW	62	HIS	CA-C-N	9.55	133.08	120.28
1	fW	62	HIS	C-N-CA	9.55	133.08	120.28
1	g7	223	GLY	O-C-N	-9.55	112.22	121.77
1	iF	226	HIS	CA-CB-CG	9.55	123.35	113.80
1	p	34	PRO	CA-C-N	9.55	134.03	120.28
1	p	34	PRO	C-N-CA	9.55	134.03	120.28
1	7W	150	ILE	CA-C-N	9.55	133.08	120.28
1	7W	150	ILE	C-N-CA	9.55	133.08	120.28
1	8U	89	GLY	CA-C-N	9.55	129.64	119.90
1	8U	89	GLY	C-N-CA	9.55	129.64	119.90
1	am	162	ARG	NE-CZ-NH1	9.55	131.05	121.50
1	dI	110	THR	O-C-N	-9.55	111.51	122.68
1	g2	112	GLN	N-CA-C	9.55	121.69	111.28
1	gM	130	TYR	CA-C-N	9.55	133.07	120.28
1	gM	130	TYR	C-N-CA	9.55	133.07	120.28
1	kU	95	GLN	N-CA-C	9.55	124.33	110.10
1	29	180	GLU	N-CA-C	9.55	122.69	111.71
1	2g	100	ARG	CA-C-N	9.55	132.07	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2g	100	ARG	C-N-CA	9.55	132.07	120.14
1	3E	84	HIS	CA-C-N	9.55	131.78	119.84
1	3E	84	HIS	C-N-CA	9.55	131.78	119.84
1	7V	28	GLU	N-CA-C	9.55	121.69	111.28
1	de	110	THR	CA-C-N	9.55	133.08	120.28
1	de	110	THR	C-N-CA	9.55	133.08	120.28
1	T	126	VAL	N-CA-C	9.55	121.50	110.62
1	a6	126	VAL	N-CA-C	9.55	120.36	110.62
1	bo	226	HIS	CA-CB-CG	9.55	123.35	113.80
1	eC	2	ILE	O-C-N	-9.55	112.06	122.95
1	dM	148	THR	N-CA-C	9.55	121.28	111.07
1	hM	97	ARG	NE-CZ-NH1	9.54	131.04	121.50
1	i6	226	HIS	CA-CB-CG	9.54	123.34	113.80
1	3C	204	ALA	CA-C-N	9.54	133.25	120.65
1	3C	204	ALA	C-N-CA	9.54	133.25	120.65
1	5s	53	ASN	CA-CB-CG	-9.55	103.05	112.60
1	4k	197	ASP	CA-CB-CG	-9.54	103.06	112.60
1	9z	63	GLN	N-CA-C	9.54	122.88	111.33
1	10	100	ARG	CA-C-N	9.54	130.57	119.98
1	10	100	ARG	C-N-CA	9.54	130.57	119.98
1	ah	189	LEU	N-CA-C	9.54	122.88	111.33
1	al	167	ARG	NE-CZ-NH1	9.54	131.04	121.50
1	N	115	ILE	O-C-N	-9.54	112.56	121.91
1	gV	154	ARG	NE-CZ-NH2	-9.54	110.61	119.20
1	23	211	LEU	N-CA-C	9.54	121.68	111.28
1	in	159	GLU	CA-C-O	-9.54	110.26	119.80
1	lA	173	ARG	NE-CZ-NH1	9.54	131.04	121.50
1	4q	206	GLY	CA-C-N	9.54	129.17	119.82
1	4q	206	GLY	C-N-CA	9.54	129.17	119.82
1	4I	153	ILE	N-CA-C	9.54	121.44	108.84
1	5u	162	ARG	N-CA-C	9.54	122.88	111.33
1	5G	62	HIS	CA-CB-CG	-9.54	104.26	113.80
1	6b	50	GLN	OE1-CD-NE2	-9.54	113.06	122.60
1	8u	26	VAL	N-CA-C	9.54	120.35	110.62
1	cu	20	LEU	CA-C-N	9.54	132.85	120.44
1	7g	21	ASN	CA-CB-CG	9.54	122.14	112.60
1	7F	136	LEU	CA-C-N	9.54	130.34	119.94
1	7F	136	LEU	C-N-CA	9.54	130.34	119.94
1	9A	140	LYS	N-CA-C	9.54	121.68	111.28
1	cd	36	VAL	CA-C-N	9.54	127.96	120.33
1	cd	36	VAL	C-N-CA	9.54	127.96	120.33
1	cu	20	LEU	C-N-CA	9.54	132.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	68	MET	N-CA-C	9.54	121.68	111.28
1	N	183	ASN	CA-C-N	9.54	133.07	120.28
1	N	183	ASN	C-N-CA	9.54	133.07	120.28
1	T	132	ARG	N-CA-C	9.54	121.68	111.28
1	k3	154	ARG	NE-CZ-NH1	-9.54	111.96	121.50
1	fz	62	HIS	CA-C-N	9.54	133.06	120.28
1	fz	62	HIS	C-N-CA	9.54	133.06	120.28
1	2W	139	ASN	CA-CB-CG	9.54	122.14	112.60
1	3i	93	PRO	N-CA-C	9.54	126.53	113.65
1	93	117	TRP	N-CA-C	9.54	122.56	111.11
1	dv	166	ASP	CA-CB-CG	9.54	122.14	112.60
1	au	110	THR	CA-C-N	9.54	132.84	120.44
1	au	110	THR	C-N-CA	9.54	132.84	120.44
1	dE	138	LEU	CA-C-O	-9.54	110.88	120.70
1	gt	97	ARG	NE-CZ-NH1	9.54	131.03	121.50
1	hJ	182	LYS	N-CA-C	9.54	121.67	111.28
1	2U	90	PRO	CA-C-N	9.54	131.51	121.97
1	kt	103	ASP	CA-CB-CG	9.53	122.13	112.60
1	2x	103	ASP	CA-CB-CG	-9.54	103.06	112.60
1	2U	90	PRO	C-N-CA	9.54	131.51	121.97
1	7S	164	TYR	N-CA-C	9.54	121.67	111.28
1	9e	28	GLU	N-CA-C	9.54	121.67	111.28
1	av	115	ILE	CA-C-N	9.54	130.53	119.94
1	av	115	ILE	C-N-CA	9.54	130.53	119.94
1	9E	136	LEU	CA-C-N	9.53	130.56	119.98
1	9E	136	LEU	C-N-CA	9.53	130.56	119.98
1	bk	222	GLY	N-CA-C	-9.53	101.98	114.85
1	kX	124	ILE	CB-CA-C	-9.53	100.42	110.53
1	4w	37	ILE	CA-C-O	-9.53	112.30	118.69
1	ku	164	TYR	CA-C-N	9.53	133.95	120.42
1	ku	164	TYR	C-N-CA	9.53	133.95	120.42
1	6w	162	ARG	N-CA-C	9.53	122.86	111.33
1	97	182	LYS	N-CA-C	9.53	121.67	111.28
1	bT	31	ALA	N-CA-C	9.53	122.11	108.00
1	f9	36	VAL	CA-C-N	9.53	127.95	120.33
1	f9	36	VAL	C-N-CA	9.53	127.95	120.33
1	t	97	ARG	NE-CZ-NH1	9.53	131.03	121.50
1	gA	81	ASP	CA-CB-CG	-9.53	103.07	112.60
1	1M	102	SER	N-CA-C	9.53	122.67	111.71
1	if	201	ILE	CA-C-N	9.53	133.05	120.28
1	if	201	ILE	C-N-CA	9.53	133.05	120.28
1	jv	25	LYS	N-CA-C	9.53	121.27	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6a	18	ARG	NE-CZ-NH1	9.53	131.03	121.50
1	9m	193	ASN	CA-CB-CG	-9.53	103.07	112.60
1	9q	192	GLN	OE1-CD-NE2	-9.53	113.07	122.60
1	2o	84	HIS	ND1-CE1-NE2	9.53	117.93	108.40
1	bo	21	ASN	OD1-CG-ND2	-9.53	113.07	122.60
1	ff	183	ASN	CA-CB-CG	-9.53	103.07	112.60
1	t	211	LEU	N-CA-C	9.53	121.67	111.28
1	1K	88	ALA	N-CA-C	9.53	121.67	111.28
1	q	152	ASP	CA-CB-CG	-9.53	103.07	112.60
1	B	67	GLN	OE1-CD-NE2	-9.53	113.07	122.60
1	2s	196	PRO	CA-C-N	9.53	133.04	120.28
1	2s	196	PRO	C-N-CA	9.53	133.04	120.28
1	3U	15	ILE	O-C-N	-9.53	112.81	122.62
1	7Y	31	ALA	N-CA-C	9.53	122.67	111.71
1	9i	36	VAL	CA-C-N	9.53	127.95	120.33
1	9i	36	VAL	C-N-CA	9.53	127.95	120.33
1	cQ	130	TYR	CA-C-N	9.53	133.04	120.28
1	cQ	130	TYR	C-N-CA	9.53	133.04	120.28
1	dQ	107	THR	N-CA-CB	9.53	124.39	110.20
1	eu	212	GLU	N-CA-C	9.53	121.66	111.28
1	jc	37	ILE	N-CA-CB	-9.52	104.50	110.50
1	h3	159	GLU	O-C-N	-9.52	111.49	121.30
1	h3	177	ALA	CA-C-N	9.52	134.33	120.90
1	h3	177	ALA	C-N-CA	9.52	134.33	120.90
1	jL	102	SER	N-CA-C	9.52	121.66	111.28
1	8	146	SER	N-CA-C	9.52	123.50	109.50
1	hm	143	ARG	NE-CZ-NH2	9.52	127.77	119.20
1	ly	118	MET	N-CA-C	9.52	121.66	111.28
1	aS	16	SER	CA-C-N	9.52	129.75	119.28
1	aS	16	SER	C-N-CA	9.52	129.75	119.28
1	d6	76	GLU	CA-C-O	-9.52	110.46	120.55
1	eR	96	MET	CA-C-N	9.52	135.89	120.94
1	eR	96	MET	C-N-CA	9.52	135.89	120.94
1	fE	62	HIS	ND1-CG-CD2	9.52	115.62	106.10
1	fQ	28	GLU	N-CA-C	9.52	121.66	111.28
1	N	171	THR	CA-C-N	9.52	133.04	120.28
1	N	171	THR	C-N-CA	9.52	133.04	120.28
1	T	82	ARG	N-CA-C	9.52	121.26	111.07
1	33	68	MET	N-CA-C	9.52	121.66	111.28
1	fM	63	GLN	N-CA-C	9.52	122.53	111.11
1	ga	132	ARG	NE-CZ-NH1	-9.52	111.98	121.50
1	gj	226	HIS	CE1-NE2-CD2	-9.52	99.48	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hP	74	ASN	CA-C-N	9.52	132.81	120.44
1	hP	74	ASN	C-N-CA	9.52	132.81	120.44
1	kn	146	SER	O-C-N	-9.52	113.08	121.17
1	5e	195	ASN	CA-CB-CG	9.52	122.12	112.60
1	as	92	GLU	N-CA-C	9.52	123.07	109.84
1	b	64	ALA	N-CA-C	9.52	121.25	111.07
1	2	4	GLN	N-CA-C	9.52	122.90	110.43
1	i7	195	ASN	CA-CB-CG	9.52	122.12	112.60
1	kf	154	ARG	NE-CZ-NH2	9.52	127.77	119.20
1	2j	188	THR	CA-C-N	9.52	132.81	120.44
1	2j	188	THR	C-N-CA	9.52	132.81	120.44
1	gZ	136	LEU	CA-C-N	9.52	130.31	119.94
1	gZ	136	LEU	C-N-CA	9.52	130.31	119.94
1	j5	40	PHE	CA-CB-CG	9.52	123.31	113.80
1	jt	55	MET	O-C-N	-9.52	112.13	122.03
1	8v	26	VAL	CA-C-N	9.52	133.50	120.46
1	8v	26	VAL	C-N-CA	9.52	133.50	120.46
1	9E	118	MET	N-CA-C	9.52	122.86	111.82
1	g3	70	LYS	N-CA-C	9.52	121.25	111.07
1	i	60	GLY	CA-C-N	9.52	130.81	120.44
1	i	60	GLY	C-N-CA	9.52	130.81	120.44
1	35	37	ILE	CA-C-N	9.51	129.27	119.19
1	35	37	ILE	C-N-CA	9.51	129.27	119.19
1	3C	159	GLU	CA-C-N	9.51	129.56	119.76
1	3C	159	GLU	C-N-CA	9.51	129.56	119.76
1	3W	183	ASN	CA-CB-CG	-9.51	103.09	112.60
1	6u	97	ARG	NE-CZ-NH1	9.51	131.01	121.50
1	6C	117	TRP	N-CA-C	9.51	121.65	111.28
1	6Z	74	ASN	CA-CB-CG	9.51	122.11	112.60
1	19	27	VAL	N-CA-C	9.51	120.33	110.72
1	bH	35	GLU	N-CA-C	9.51	122.65	111.71
1	fC	36	VAL	O-C-N	-9.51	112.91	122.23
1	gq	118	MET	N-CA-C	9.51	124.28	112.87
1	j5	198	CYS	O-C-N	-9.51	112.27	122.07
1	cc	167	ARG	CA-C-N	9.51	133.38	120.44
1	cc	167	ARG	C-N-CA	9.51	133.38	120.44
1	hS	110	THR	O-C-N	-9.51	112.41	123.06
1	kz	95	GLN	OE1-CD-NE2	-9.51	113.09	122.60
1	lR	56	LEU	N-CA-C	9.51	121.73	111.36
1	2q	14	ALA	CA-C-N	9.51	133.28	120.63
1	2q	14	ALA	C-N-CA	9.51	133.28	120.63
1	2v	134	ILE	N-CA-C	9.51	120.32	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	128	GLU	CA-C-N	9.51	132.32	120.72
1	7L	128	GLU	C-N-CA	9.51	132.32	120.72
1	d1	130	TYR	CA-C-O	9.51	130.81	120.82
1	e9	143	ARG	CA-C-N	9.51	133.79	120.29
1	e9	143	ARG	C-N-CA	9.51	133.79	120.29
1	4	159	GLU	CA-C-O	-9.51	113.11	119.29
1	3	179	GLN	N-CA-C	9.51	122.83	111.33
1	ir	39	MET	CA-C-N	9.51	133.02	120.28
1	ir	39	MET	C-N-CA	9.51	133.02	120.28
1	3W	213	GLU	N-CA-C	9.51	122.64	111.71
1	5H	94	GLY	CA-C-O	9.51	129.70	118.86
1	hc	42	ALA	CA-C-N	9.51	132.80	120.44
1	hc	42	ALA	C-N-CA	9.51	132.80	120.44
1	ka	70	LYS	N-CA-C	9.51	121.24	111.07
1	47	160	PRO	N-CA-C	9.51	126.17	111.15
1	6j	140	LYS	N-CA-C	9.51	122.85	111.82
1	eZ	219	GLN	OE1-CD-NE2	-9.51	113.09	122.60
1	hn	185	MET	N-CA-C	9.51	121.64	111.28
1	2Q	59	VAL	N-CA-CB	9.51	121.08	110.72
1	9Z	195	ASN	CA-CB-CG	-9.51	103.09	112.60
1	ds	229	ARG	NE-CZ-NH2	9.51	127.75	119.20
1	eL	73	ILE	N-CA-C	9.51	120.31	110.62
1	fN	71	GLU	CA-C-O	-9.51	110.47	120.55
1	l0	101	GLY	CA-C-N	9.50	133.01	120.28
1	l0	101	GLY	C-N-CA	9.50	133.01	120.28
1	4l	224	PRO	CA-C-N	9.50	138.89	120.07
1	4l	224	PRO	C-N-CA	9.50	138.89	120.07
1	4O	44	SER	N-CA-C	9.50	123.55	112.72
1	63	55	MET	N-CA-C	9.50	121.64	111.28
1	7S	103	ASP	CA-CB-CG	-9.50	103.10	112.60
1	9O	43	LEU	CA-C-O	9.50	130.62	120.55
1	f7	23	TRP	N-CA-C	9.50	122.84	111.82
1	g3	100	ARG	NE-CZ-NH2	9.50	127.75	119.20
1	hv	152	ASP	CA-CB-CG	-9.50	103.10	112.60
1	1U	25	LYS	N-CA-C	9.50	122.51	111.11
1	ky	136	LEU	CA-C-N	9.50	130.45	120.00
1	ky	136	LEU	C-N-CA	9.50	130.45	120.00
1	a5	140	LYS	N-CA-C	9.50	121.64	111.28
1	l7	97	ARG	NE-CZ-NH2	-9.50	110.65	119.20
1	49	99	PRO	N-CA-CB	-9.50	96.87	103.23
1	6R	5	ASN	CA-CB-CG	9.50	122.10	112.60
1	8i	12	HIS	CA-CB-CG	-9.50	104.30	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8q	83	LEU	CA-C-O	9.50	131.06	119.38
1	8J	163	ASP	CA-C-O	9.50	130.89	119.97
1	g7	125	PRO	N-CA-CB	9.50	109.06	102.79
1	ct	150	ILE	O-C-N	-9.50	112.31	121.90
1	hc	154	ARG	NE-CZ-NH1	9.50	131.00	121.50
1	kh	167	ARG	NE-CZ-NH1	9.50	131.00	121.50
1	ki	159	GLU	CA-C-O	9.50	126.77	119.46
1	le	54	THR	O-C-N	-9.50	111.92	122.08
1	3o	179	GLN	N-CA-C	9.50	121.63	111.28
1	9Q	69	LEU	CA-C-N	9.50	132.79	120.44
1	9Q	69	LEU	C-N-CA	9.50	132.79	120.44
1	17	63	GLN	N-CA-C	9.50	121.63	111.28
1	eZ	38	PRO	CA-C-N	9.50	132.79	120.44
1	eZ	38	PRO	C-N-CA	9.50	132.79	120.44
1	ho	85	PRO	CB-CA-C	9.49	123.62	111.56
1	i1	120	HIS	CA-CB-CG	9.49	123.29	113.80
1	1O	114	GLN	CA-C-N	9.49	132.85	120.60
1	1O	114	GLN	C-N-CA	9.49	132.85	120.60
1	5e	55	MET	N-CA-C	9.49	121.63	111.28
1	8k	52	LEU	CA-C-O	9.49	130.48	120.70
1	aH	63	GLN	N-CA-C	9.49	121.63	111.28
1	15	84	HIS	N-CA-C	9.49	123.47	109.04
1	t	211	LEU	CA-C-N	9.49	133.00	120.28
1	t	211	LEU	C-N-CA	9.49	133.00	120.28
1	kN	124	ILE	N-CA-C	-9.49	97.14	107.77
1	6s	166	ASP	CB-CA-C	9.49	126.55	110.79
1	6K	21	ASN	CA-CB-CG	9.49	122.09	112.60
1	cv	97	ARG	NE-CZ-NH2	-9.49	110.66	119.20
1	cO	189	LEU	CA-C-N	9.49	133.36	120.54
1	cO	189	LEU	C-N-CA	9.49	133.36	120.54
1	dy	16	SER	CA-C-O	-9.49	111.88	119.66
1	eO	156	GLY	CA-C-N	9.49	129.59	119.05
1	eO	156	GLY	C-N-CA	9.49	129.59	119.05
1	fq	193	ASN	CA-CB-CG	9.49	122.09	112.60
1	p	229	ARG	NE-CZ-NH1	9.49	130.99	121.50
1	t	97	ARG	NE-CZ-NH2	-9.49	110.66	119.20
1	gr	134	ILE	N-CA-C	9.49	120.30	110.62
1	hm	173	ARG	NE-CZ-NH1	9.49	130.99	121.50
1	3N	129	ILE	N-CA-CB	9.49	120.97	110.62
1	4X	66	MET	O-C-N	-9.49	112.06	122.12
1	jX	39	MET	CB-CA-C	9.49	126.54	110.79
1	9O	115	ILE	CA-C-N	9.49	130.66	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9O	115	ILE	C-N-CA	9.49	130.66	120.03
1	bv	113	GLU	CA-C-N	9.49	133.00	120.28
1	bv	113	GLU	C-N-CA	9.49	133.00	120.28
1	dq	179	GLN	N-CA-C	9.49	122.81	111.33
1	eN	37	ILE	N-CA-CB	9.49	116.48	110.50
1	1h	202	LEU	CA-C-O	9.49	130.82	120.10
1	dl	16	SER	O-C-N	-9.49	112.85	121.30
1	fc	11	VAL	N-CA-C	9.49	121.61	107.75
1	hE	166	ASP	CA-C-N	9.49	132.77	120.44
1	hE	166	ASP	C-N-CA	9.49	132.77	120.44
1	lO	18	ARG	N-CA-C	9.49	121.62	111.28
1	gy	62	HIS	ND1-CG-CD2	9.49	115.59	106.10
1	kO	136	LEU	CA-C-N	9.49	130.28	119.94
1	kO	136	LEU	C-N-CA	9.49	130.28	119.94
1	g0	28	GLU	N-CA-C	9.49	121.62	111.28
1	4G	50	GLN	OE1-CD-NE2	-9.49	113.11	122.60
1	E	195	ASN	O-C-N	-9.49	111.53	121.30
1	hO	215	MET	N-CA-C	9.48	123.89	111.75
1	1T	59	VAL	CA-C-N	9.48	130.77	121.57
1	1T	59	VAL	C-N-CA	9.48	130.77	121.57
1	l2	33	SER	O-C-N	-9.48	114.43	121.83
1	lA	167	ARG	NE-CZ-NH1	9.48	130.99	121.50
1	6M	182	LYS	N-CA-C	9.48	122.81	111.33
1	eL	72	THR	O-C-N	-9.48	112.22	122.09
1	5g	48	THR	O-C-N	-9.48	111.98	120.99
1	cI	190	LEU	CA-C-O	9.48	130.47	120.42
1	eC	204	ALA	N-CA-C	9.48	121.62	111.28
1	hA	173	ARG	NE-CZ-NH2	-9.48	110.67	119.20
1	i9	183	ASN	CA-CB-CG	9.48	122.08	112.60
1	ja	195	ASN	CA-CB-CG	9.48	122.08	112.60
1	2I	88	ALA	CA-C-N	9.48	136.76	121.87
1	2I	88	ALA	C-N-CA	9.48	136.76	121.87
1	96	188	THR	CA-C-O	9.48	130.47	120.42
1	bN	91	ILE	N-CA-C	9.48	121.36	108.84
1	e4	76	GLU	N-CA-C	9.48	121.61	111.28
1	a	176	GLN	N-CA-CB	9.48	126.51	110.49
1	i0	107	THR	N-CA-C	9.48	121.21	111.07
1	45	21	ASN	N-CA-C	9.48	122.48	111.11
1	en	85	PRO	CA-C-O	-9.48	111.09	121.23
1	i0	229	ARG	NE-CZ-NH1	9.48	130.98	121.50
1	jH	116	GLY	CA-C-N	9.48	132.98	120.28
1	jH	116	GLY	C-N-CA	9.48	132.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	7	GLN	CA-C-N	9.48	131.24	120.53
1	5X	7	GLN	C-N-CA	9.48	131.24	120.53
1	7t	213	GLU	CA-C-N	9.48	133.75	120.29
1	7t	213	GLU	C-N-CA	9.48	133.75	120.29
1	cP	65	ALA	CA-C-O	9.48	130.87	120.63
1	dp	50	GLN	N-CA-C	9.48	121.61	111.28
1	eC	65	ALA	N-CA-C	9.48	121.69	111.36
1	5Z	31	ALA	N-CA-C	9.47	123.88	111.75
1	a0	98	GLU	CA-C-N	9.47	130.06	119.83
1	a0	98	GLU	C-N-CA	9.47	130.06	119.83
1	fa	60	GLY	CA-C-N	9.47	129.10	120.10
1	fa	60	GLY	C-N-CA	9.47	129.10	120.10
1	lM	216	THR	O-C-N	-9.47	110.97	122.34
1	3x	223	GLY	CA-C-N	9.47	129.21	119.64
1	3x	223	GLY	C-N-CA	9.47	129.21	119.64
1	5s	68	MET	N-CA-C	9.47	122.79	111.33
1	cQ	27	VAL	O-C-N	-9.47	112.68	121.87
1	jB	183	ASN	N-CA-C	9.47	121.60	111.28
1	kr	18	ARG	NH1-CZ-NH2	-9.47	106.99	119.30
1	kX	21	ASN	CA-CB-CG	-9.47	103.13	112.60
1	ll	55	MET	N-CA-C	9.47	121.20	111.07
1	2m	131	LYS	N-CA-C	9.47	122.60	111.71
1	d7	195	ASN	CA-C-O	-9.47	111.75	119.71
1	kG	13	GLN	CA-C-N	9.47	134.17	120.82
1	kG	13	GLN	C-N-CA	9.47	134.17	120.82
1	60	161	PHE	N-CA-C	9.47	121.60	111.28
1	fH	166	ASP	CA-C-N	9.47	132.97	120.28
1	fH	166	ASP	C-N-CA	9.47	132.97	120.28
1	hf	12	HIS	CA-CB-CG	9.47	123.27	113.80
1	jK	161	PHE	CA-C-N	9.47	133.35	120.38
1	jK	161	PHE	C-N-CA	9.47	133.35	120.38
1	4C	80	TRP	CA-C-N	9.47	132.97	120.28
1	4C	80	TRP	C-N-CA	9.47	132.97	120.28
1	6o	74	ASN	CA-C-O	9.47	130.59	120.55
1	7L	139	ASN	CA-C-O	9.47	130.59	120.55
1	3C	18	ARG	CA-C-O	9.47	130.46	120.42
1	8R	29	GLU	N-CA-C	9.47	121.20	111.07
1	a6	190	LEU	N-CA-C	9.47	121.20	111.07
1	aE	62	HIS	CB-CG-CD2	-9.47	118.89	131.20
1	ca	74	ASN	CA-CB-CG	9.47	122.07	112.60
1	cF	127	GLY	O-C-N	-9.47	113.09	122.18
1	i1	187	GLU	N-CA-C	9.46	121.60	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ik	162	ARG	N-CA-C	9.47	122.60	111.71
1	1	50	GLN	CA-C-N	9.47	133.31	120.44
1	1	50	GLN	C-N-CA	9.47	133.31	120.44
1	lh	82	ARG	NE-CZ-NH1	9.46	130.96	121.50
1	3n	42	ALA	CA-C-O	9.46	130.76	120.82
1	6q	126	VAL	N-CA-C	9.46	120.27	110.62
1	d3	169	TYR	N-CA-C	9.46	122.78	111.33
1	kZ	120	HIS	CA-CB-CG	9.46	123.26	113.80
1	ep	143	ARG	NE-CZ-NH2	9.46	127.72	119.20
1	ga	134	ILE	N-CA-C	9.46	120.27	110.62
1	gV	32	PHE	N-CA-C	9.46	123.58	110.24
1	hL	192	GLN	N-CA-C	9.46	121.59	111.28
1	6Z	115	ILE	CA-C-N	9.46	130.41	120.00
1	kx	179	GLN	OE1-CD-NE2	-9.46	113.14	122.60
1	lA	179	GLN	OE1-CD-NE2	9.46	132.06	122.60
1	6Z	115	ILE	C-N-CA	9.46	130.41	120.00
1	8Z	126	VAL	CA-C-O	-9.46	111.11	120.95
1	ek	2	ILE	CA-C-N	9.46	133.22	120.63
1	ek	2	ILE	C-N-CA	9.46	133.22	120.63
1	6f	62	HIS	CA-CB-CG	-9.46	104.34	113.80
1	b5	72	THR	O-C-N	-9.46	112.09	122.12
1	hU	15	ILE	O-C-N	-9.46	112.60	122.63
1	1N	100	ARG	CA-C-O	-9.46	111.19	121.88
1	jJ	65	ALA	CA-C-N	9.46	132.96	120.28
1	jJ	65	ALA	C-N-CA	9.46	132.96	120.28
1	jY	230	VAL	N-CA-C	9.46	120.27	110.62
1	97	37	ILE	N-CA-CB	-9.46	103.07	110.45
1	ak	167	ARG	NE-CZ-NH1	9.46	130.96	121.50
1	fq	162	ARG	NE-CZ-NH2	-9.46	110.69	119.20
1	1I	228	ALA	N-CA-C	9.46	123.57	110.24
1	hv	228	ALA	N-CA-C	9.46	123.21	110.35
1	ja	105	ALA	CA-C-O	9.46	130.44	119.18
1	5q	87	HIS	CE1-NE2-CD2	-9.46	99.54	109.00
1	25	168	PHE	N-CA-C	9.46	121.28	110.97
1	lE	36	VAL	CA-C-N	9.46	127.89	120.33
1	lE	36	VAL	C-N-CA	9.46	127.89	120.33
1	6K	166	ASP	CA-CB-CG	9.46	122.06	112.60
1	cC	39	MET	N-CA-C	9.46	121.59	111.28
1	i7	120	HIS	CA-CB-CG	9.46	123.26	113.80
1	9H	112	GLN	N-CA-C	9.46	121.19	111.07
1	aF	126	VAL	N-CA-C	9.46	120.27	110.62
1	d2	156	GLY	CA-C-N	9.46	129.21	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fu	134	ILE	N-CA-C	9.46	119.50	110.42
1	h2	119	THR	CA-C-O	9.45	130.72	119.28
1	kt	32	PHE	CA-CB-CG	-9.45	104.35	113.80
1	2F	173	ARG	NE-CZ-NH2	-9.45	110.69	119.20
1	4x	143	ARG	NE-CZ-NH1	9.46	130.96	121.50
1	8G	21	ASN	CA-C-N	9.45	132.95	120.28
1	8G	21	ASN	C-N-CA	9.45	132.95	120.28
1	9F	32	PHE	CA-CB-CG	-9.45	104.35	113.80
1	cZ	163	ASP	CA-CB-CG	-9.46	103.14	112.60
1	d2	156	GLY	C-N-CA	9.46	129.21	119.19
1	eN	77	ALA	CA-C-N	9.46	132.73	120.44
1	eN	77	ALA	C-N-CA	9.46	132.73	120.44
1	hM	132	ARG	NE-CZ-NH1	9.45	130.95	121.50
1	j1	18	ARG	NE-CZ-NH2	9.45	127.71	119.20
1	G	166	ASP	N-CA-C	9.45	121.58	111.28
1	bQ	42	ALA	CA-C-O	9.45	131.01	120.90
1	dp	121	ASN	CA-CB-CG	9.45	122.05	112.60
1	eY	53	ASN	OD1-CG-ND2	-9.45	113.15	122.60
1	j	228	ALA	N-CA-C	9.45	124.22	110.42
1	T	184	TRP	CB-CG-CD2	9.45	140.03	126.80
1	gT	137	GLY	CA-C-N	9.45	132.94	120.28
1	gT	137	GLY	C-N-CA	9.45	132.94	120.28
1	2S	212	GLU	CA-C-N	9.45	132.94	120.28
1	gr	88	ALA	N-CA-C	9.45	123.00	110.53
1	hu	83	LEU	N-CA-C	9.45	121.18	111.07
1	i4	176	GLN	CA-C-N	9.45	134.14	120.82
1	i4	176	GLN	C-N-CA	9.45	134.14	120.82
1	kX	84	HIS	CB-CA-C	-9.45	100.69	110.33
1	2S	212	GLU	C-N-CA	9.45	132.94	120.28
1	7X	26	VAL	CA-C-O	9.45	131.19	121.17
1	4E	219	GLN	OE1-CD-NE2	-9.45	113.15	122.60
1	7f	124	ILE	O-C-N	-9.45	114.84	121.55
1	9g	29	GLU	N-CA-C	-9.45	100.36	112.93
1	aK	59	VAL	N-CA-C	9.45	120.26	110.62
1	dR	84	HIS	ND1-CE1-NE2	9.45	117.85	108.40
1	g6	141	ILE	O-C-N	-9.45	112.70	121.87
1	hV	92	GLU	CA-C-O	-9.45	109.18	118.34
1	iM	62	HIS	N-CA-C	9.45	124.28	111.24
1	jH	63	GLN	N-CA-C	9.45	121.66	111.36
1	ky	150	ILE	CA-C-N	9.45	132.94	120.28
1	ky	150	ILE	C-N-CA	9.45	132.94	120.28
1	bq	50	GLN	CA-C-N	9.45	132.72	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k2	159	GLU	CA-C-N	9.45	129.49	119.76
1	k2	159	GLU	C-N-CA	9.45	129.49	119.76
1	38	37	ILE	O-C-N	-9.45	114.37	120.42
1	4h	121	ASN	CA-C-N	9.45	130.11	120.38
1	4h	121	ASN	C-N-CA	9.45	130.11	120.38
1	4N	173	ARG	NE-CZ-NH1	9.45	130.95	121.50
1	8U	45	GLU	N-CA-C	9.45	122.76	111.33
1	9T	152	ASP	CA-C-N	9.45	133.48	120.35
1	9T	152	ASP	C-N-CA	9.45	133.48	120.35
1	bq	50	GLN	C-N-CA	9.45	132.72	120.44
1	2A	81	ASP	N-CA-C	9.44	121.57	111.28
1	9x	55	MET	N-CA-C	9.45	122.44	111.11
1	eW	112	GLN	N-CA-C	9.45	122.76	111.33
1	ft	229	ARG	NE-CZ-NH2	-9.44	110.70	119.20
1	gX	82	ARG	CD-NE-CZ	9.44	137.62	124.40
1	im	100	ARG	NE-CZ-NH2	-9.44	110.70	119.20
1	aN	57	ASN	CA-CB-CG	9.44	122.04	112.60
1	fQ	59	VAL	O-C-N	-9.44	112.62	122.63
1	fV	156	GLY	O-C-N	-9.44	112.33	121.77
1	hK	62	HIS	CA-CB-CG	9.44	123.24	113.80
1	u	66	MET	N-CA-C	9.44	121.57	111.28
1	i9	32	PHE	CA-CB-CG	-9.44	104.36	113.80
1	k4	229	ARG	NE-CZ-NH2	-9.44	110.70	119.20
1	lB	33	SER	CA-C-N	9.44	131.64	119.84
1	lB	33	SER	C-N-CA	9.44	131.64	119.84
1	6g	36	VAL	CA-C-N	9.44	127.88	120.33
1	6g	36	VAL	C-N-CA	9.44	127.88	120.33
1	73	95	GLN	N-CA-C	9.44	122.51	110.24
1	dt	26	VAL	N-CA-CB	-9.44	98.67	110.47
1	ib	84	HIS	ND1-CE1-NE2	9.44	117.84	108.40
1	c	9	GLN	OE1-CD-NE2	-9.44	113.16	122.60
1	jl	166	ASP	CA-C-N	9.44	132.71	120.44
1	jl	166	ASP	C-N-CA	9.44	132.71	120.44
1	7R	168	PHE	CA-CB-CG	-9.44	104.36	113.80
1	bY	35	GLU	N-CA-C	9.44	124.33	113.01
1	f4	153	ILE	N-CA-C	9.44	123.22	109.63
1	r	178	SER	N-CA-C	9.44	123.18	110.35
1	7	156	GLY	CA-C-N	9.44	130.08	119.32
1	7	156	GLY	C-N-CA	9.44	130.08	119.32
1	hq	205	LEU	O-C-N	9.43	132.12	122.12
1	2P	74	ASN	OD1-CG-ND2	-9.43	113.17	122.60
1	7i	89	GLY	CA-C-N	9.43	131.63	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aP	202	LEU	O-C-N	-9.43	112.35	122.07
1	jH	132	ARG	CA-C-N	9.43	132.70	120.44
1	jH	132	ARG	C-N-CA	9.43	132.70	120.44
1	li	138	LEU	N-CA-C	9.43	122.43	111.11
1	lM	33	SER	CA-C-N	9.43	130.41	119.47
1	lM	33	SER	C-N-CA	9.43	130.41	119.47
1	2q	36	VAL	CA-C-N	9.43	127.88	120.33
1	2q	36	VAL	C-N-CA	9.43	127.88	120.33
1	7i	89	GLY	C-N-CA	9.43	131.63	119.84
1	3J	191	VAL	N-CA-C	9.43	119.47	110.42
1	5S	20	LEU	CA-C-N	9.43	132.70	120.44
1	5S	20	LEU	C-N-CA	9.43	132.70	120.44
1	64	227	LYS	N-CA-C	9.43	124.19	110.42
1	7i	122	PRO	CA-C-N	9.43	131.63	119.84
1	7i	122	PRO	C-N-CA	9.43	131.63	119.84
1	9c	139	ASN	CA-CB-CG	-9.43	103.17	112.60
1	9A	138	LEU	CA-C-O	-9.43	110.55	120.55
1	b9	197	ASP	CA-C-N	9.43	132.70	120.44
1	b9	197	ASP	C-N-CA	9.43	132.70	120.44
1	bf	221	VAL	CA-C-N	9.43	134.98	121.96
1	bf	221	VAL	C-N-CA	9.43	134.98	121.96
1	cW	173	ARG	NH1-CZ-NH2	-9.43	107.04	119.30
1	dX	92	GLU	O-C-N	-9.43	111.84	120.71
1	fd	12	HIS	CE1-NE2-CD2	-9.43	99.57	109.00
1	v	213	GLU	CA-C-N	9.43	132.70	120.44
1	v	213	GLU	C-N-CA	9.43	132.70	120.44
1	aH	143	ARG	CA-C-N	9.43	132.70	120.44
1	ha	67	GLN	O-C-N	-9.43	112.36	122.07
1	ia	33	SER	N-CA-C	-9.43	97.31	108.25
1	iP	63	GLN	N-CA-C	9.43	122.76	111.82
1	2q	161	PHE	CA-C-O	9.43	130.81	120.63
1	60	50	GLN	N-CA-C	9.43	121.16	111.07
1	6n	162	ARG	NE-CZ-NH1	9.43	130.93	121.50
1	aH	143	ARG	C-N-CA	9.43	132.70	120.44
1	dF	216	THR	CA-C-N	9.43	134.10	120.71
1	dF	216	THR	C-N-CA	9.43	134.10	120.71
1	fj	135	ILE	N-CA-C	9.43	120.24	110.62
1	kv	159	GLU	CA-C-N	9.43	131.62	119.84
1	kv	159	GLU	C-N-CA	9.43	131.62	119.84
1	kH	136	LEU	CA-C-N	9.43	130.22	119.94
1	kH	136	LEU	C-N-CA	9.43	130.22	119.94
1	26	37	ILE	O-C-N	-9.43	114.39	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	219	GLN	CA-C-N	9.43	130.40	119.94
1	3p	219	GLN	C-N-CA	9.43	130.40	119.94
1	87	54	THR	CA-C-N	9.43	132.69	120.44
1	87	54	THR	C-N-CA	9.43	132.69	120.44
1	eR	84	HIS	CA-C-N	9.43	129.47	119.76
1	eR	84	HIS	C-N-CA	9.43	129.47	119.76
1	fz	192	GLN	N-CA-C	9.43	122.76	111.82
1	l	173	ARG	NE-CZ-NH2	-9.43	110.72	119.20
1	3J	161	PHE	CA-CB-CG	9.43	123.22	113.80
1	aU	21	ASN	OD1-CG-ND2	-9.43	113.17	122.60
1	gt	157	PRO	CA-C-O	-9.42	114.12	121.38
1	h6	214	MET	N-CA-C	9.42	121.55	111.28
1	kZ	166	ASP	CA-CB-CG	9.42	122.02	112.60
1	3l	195	ASN	CA-CB-CG	9.42	122.02	112.60
1	53	32	PHE	CA-CB-CG	-9.42	104.38	113.80
1	6a	195	ASN	O-C-N	-9.42	111.16	121.53
1	7B	84	HIS	CA-C-N	9.42	131.62	119.84
1	7B	84	HIS	C-N-CA	9.42	131.62	119.84
1	81	210	THR	CA-C-N	9.42	132.69	120.44
1	81	210	THR	C-N-CA	9.42	132.69	120.44
1	aD	78	ALA	CA-C-O	9.42	130.54	120.55
1	18	202	LEU	CA-C-N	9.42	132.91	120.28
1	18	202	LEU	C-N-CA	9.42	132.91	120.28
1	bN	167	ARG	CA-C-N	9.42	132.69	120.44
1	bN	167	ARG	C-N-CA	9.42	132.69	120.44
1	c0	61	GLY	O-C-N	-9.42	114.35	122.92
1	s	192	GLN	N-CA-C	9.42	122.73	111.33
1	hz	228	ALA	CA-C-N	9.42	134.52	121.05
1	hz	228	ALA	C-N-CA	9.42	134.52	121.05
1	lo	200	THR	N-CA-C	9.42	121.55	111.28
1	3h	152	ASP	N-CA-C	-9.42	101.80	113.38
1	5j	100	ARG	CA-C-N	9.42	130.36	120.00
1	5j	100	ARG	C-N-CA	9.42	130.36	120.00
1	7H	57	ASN	CA-C-N	9.42	132.90	120.28
1	7H	57	ASN	C-N-CA	9.42	132.90	120.28
1	as	184	TRP	CA-C-N	9.42	132.69	120.44
1	as	184	TRP	C-N-CA	9.42	132.69	120.44
1	fS	37	ILE	O-C-N	-9.42	114.39	120.42
1	hq	72	THR	N-CA-C	9.42	121.62	111.36
1	5u	75	GLU	N-CA-C	9.42	121.55	111.28
1	7G	12	HIS	ND1-CE1-NE2	9.42	117.82	108.40
1	7W	175	GLU	CA-C-O	9.42	131.53	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hK	53	ASN	CA-CB-CG	-9.42	103.18	112.60
1	jt	229	ARG	CA-C-O	9.42	130.68	119.28
1	4i	69	LEU	CA-C-O	-9.42	110.93	120.82
1	7r	22	ALA	N-CA-C	9.42	122.41	111.11
1	9r	134	ILE	N-CA-C	9.42	120.23	110.62
1	aI	136	LEU	N-CA-C	9.42	121.14	111.07
1	cK	13	GLN	O-C-N	-9.42	113.37	123.26
1	cY	84	HIS	CE1-NE2-CD2	-9.42	99.58	109.00
1	dE	37	ILE	N-CA-CB	9.42	116.43	110.50
1	eP	51	ASP	CA-CB-CG	-9.42	103.18	112.60
1	fE	60	GLY	CA-C-N	9.42	128.96	119.92
1	fE	60	GLY	C-N-CA	9.42	128.96	119.92
1	fN	75	GLU	CA-C-O	9.42	130.40	120.42
1	g	107	THR	O-C-N	-9.42	111.92	122.09
1	hV	162	ARG	NE-CZ-NH1	9.41	130.91	121.50
1	j2	162	ARG	NE-CZ-NH2	-9.41	110.73	119.20
1	5O	133	TRP	CB-CG-CD2	-9.41	113.62	126.80
1	7W	164	TYR	CA-C-N	9.41	132.42	120.56
1	hH	89	GLY	CA-C-N	9.41	131.61	119.84
1	hH	89	GLY	C-N-CA	9.41	131.61	119.84
1	27	182	LYS	O-C-N	-9.41	111.47	122.20
1	7W	164	TYR	C-N-CA	9.41	132.42	120.56
1	cq	67	GLN	N-CA-C	9.41	121.54	111.28
1	eS	167	ARG	O-C-N	-9.41	111.92	122.09
1	iU	185	MET	N-CA-C	9.41	122.41	111.11
1	2S	132	ARG	NH1-CZ-NH2	-9.41	107.06	119.30
1	hH	63	GLN	CA-C-N	9.41	132.89	120.28
1	hH	63	GLN	C-N-CA	9.41	132.89	120.28
1	kG	111	LEU	N-CA-C	9.41	122.72	111.33
1	lE	33	SER	N-CA-C	-9.41	99.66	108.13
1	aE	33	SER	O-C-N	-9.41	111.63	121.60
1	kj	195	ASN	CA-CB-CG	9.41	122.01	112.60
1	2s	64	ALA	CA-C-N	9.41	132.89	120.28
1	2s	64	ALA	C-N-CA	9.41	132.89	120.28
1	w	124	ILE	O-C-N	-9.41	115.44	121.37
1	4c	162	ARG	NE-CZ-NH2	-9.41	110.73	119.20
1	5l	27	VAL	O-C-N	-9.41	112.53	121.94
1	7y	220	GLY	CA-C-O	9.41	127.74	119.56
1	8m	37	ILE	O-C-N	-9.41	114.40	120.42
1	ag	124	ILE	O-C-N	-9.41	114.87	121.55
1	aT	100	ARG	CA-C-N	9.41	130.35	120.00
1	aT	100	ARG	C-N-CA	9.41	130.35	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	62	HIS	CA-CB-CG	9.41	123.21	113.80
1	Y	37	ILE	O-C-N	-9.40	114.40	120.42
1	ah	113	GLU	CA-C-N	9.40	132.67	120.44
1	ah	113	GLU	C-N-CA	9.40	132.67	120.44
1	81	16	SER	O-C-N	-9.40	112.93	121.30
1	92	122	PRO	CA-C-N	9.40	129.49	119.90
1	92	122	PRO	C-N-CA	9.40	129.49	119.90
1	ba	97	ARG	NE-CZ-NH1	9.40	130.90	121.50
1	bi	45	GLU	N-CA-CB	9.40	124.70	109.28
1	gD	92	GLU	CA-C-N	9.40	131.59	119.84
1	gD	92	GLU	C-N-CA	9.40	131.59	119.84
1	hg	226	HIS	CA-CB-CG	-9.40	104.40	113.80
1	lI	21	ASN	CA-CB-CG	9.40	122.00	112.60
1	62	14	ALA	N-CA-C	9.40	122.46	110.24
1	eV	37	ILE	N-CA-CB	9.40	116.42	110.50
1	iM	169	TYR	CA-C-N	9.40	133.26	120.38
1	iM	169	TYR	C-N-CA	9.40	133.26	120.38
1	d4	26	VAL	CA-C-O	9.40	130.73	120.95
1	g4	167	ARG	NE-CZ-NH2	-9.40	110.74	119.20
1	gj	150	ILE	N-CA-C	9.40	120.21	110.62
1	is	93	PRO	CA-C-O	-9.40	111.08	121.32
1	3	77	ALA	N-CA-C	9.40	121.52	111.28
1	gt	206	GLY	CA-C-N	9.40	129.03	119.82
1	gt	206	GLY	C-N-CA	9.40	129.03	119.82
1	i1	127	GLY	N-CA-C	9.40	124.01	112.64
1	j6	20	LEU	CA-C-O	9.40	130.51	120.55
1	2r	204	ALA	CA-C-O	9.40	130.51	120.55
1	37	28	GLU	N-CA-C	9.40	121.12	111.07
1	3C	81	ASP	CA-CB-CG	-9.40	103.20	112.60
1	5f	126	VAL	CA-C-N	9.40	130.41	119.98
1	5f	126	VAL	C-N-CA	9.40	130.41	119.98
1	7E	63	GLN	N-CA-C	9.40	121.52	111.28
1	8u	97	ARG	NE-CZ-NH2	9.40	127.66	119.20
1	8h	1	PRO	CB-CA-C	9.40	127.95	110.10
1	bR	154	ARG	NE-CZ-NH1	9.40	130.90	121.50
1	8I	55	MET	N-CA-C	9.40	121.52	111.28
1	bO	135	ILE	N-CA-C	9.40	119.44	110.42
1	cF	190	LEU	N-CA-C	9.40	121.12	111.07
1	fs	162	ARG	NE-CZ-NH1	9.40	130.90	121.50
1	5b	154	ARG	NE-CZ-NH1	9.39	130.90	121.50
1	8P	159	GLU	O-C-N	-9.39	110.91	121.43
1	8Z	128	GLU	O-C-N	-9.39	112.16	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9n	195	ASN	CA-CB-CG	9.39	122.00	112.60
1	jU	173	ARG	NE-CZ-NH2	9.39	127.65	119.20
1	4l	166	ASP	CA-CB-CG	9.39	121.99	112.60
1	7L	12	HIS	CE1-NE2-CD2	-9.39	99.61	109.00
1	aC	179	GLN	CA-C-N	9.39	132.65	120.44
1	aC	179	GLN	C-N-CA	9.39	132.65	120.44
1	bJ	67	GLN	CA-C-O	-9.39	110.59	120.55
1	ee	36	VAL	CA-C-N	9.39	126.16	120.24
1	ee	36	VAL	C-N-CA	9.39	126.16	120.24
1	hI	48	THR	CA-C-N	9.39	131.58	119.84
1	hI	48	THR	C-N-CA	9.39	131.58	119.84
1	98	124	ILE	O-C-N	-9.39	114.88	121.55
1	a5	152	ASP	CA-C-O	9.39	130.41	120.36
1	id	99	PRO	O-C-N	-9.39	116.06	122.73
1	jY	184	TRP	CB-CG-CD2	9.39	139.95	126.80
1	lz	24	VAL	N-CA-C	9.39	120.20	110.62
1	lH	36	VAL	CA-C-N	9.39	129.44	120.43
1	lH	36	VAL	C-N-CA	9.39	129.44	120.43
1	2s	217	ALA	N-CA-C	9.39	124.13	110.42
1	2Q	103	ASP	CA-C-N	9.39	133.32	120.46
1	2Q	103	ASP	C-N-CA	9.39	133.32	120.46
1	4U	177	ALA	N-CA-C	9.39	122.73	110.43
1	92	51	ASP	O-C-N	-9.39	112.40	122.07
1	9a	164	TYR	N-CA-C	9.39	123.24	111.69
1	9z	76	GLU	CA-C-N	9.39	132.65	120.44
1	9z	76	GLU	C-N-CA	9.39	132.65	120.44
1	11	18	ARG	CA-C-N	9.39	133.40	120.63
1	11	18	ARG	C-N-CA	9.39	133.40	120.63
1	df	100	ARG	NE-CZ-NH1	9.39	130.89	121.50
1	kr	184	TRP	CA-C-N	9.39	132.65	120.44
1	kr	184	TRP	C-N-CA	9.39	132.65	120.44
1	3k	194	ALA	N-CA-C	9.39	123.12	110.35
1	ac	114	GLN	N-CA-C	9.39	121.51	111.28
1	ay	192	GLN	OE1-CD-NE2	-9.39	113.21	122.60
1	fN	76	GLU	N-CA-C	9.39	121.59	111.36
1	ge	14	ALA	N-CA-C	9.39	124.12	110.42
1	jV	81	ASP	CA-CB-CG	9.39	121.99	112.60
1	4G	74	ASN	CA-CB-CG	9.39	121.99	112.60
1	ig	165	VAL	O-C-N	-9.39	112.16	121.83
1	kc	144	MET	N-CA-C	9.38	121.59	111.36
1	4h	195	ASN	CA-CB-CG	9.38	121.98	112.60
1	5m	61	GLY	CA-C-O	-9.39	113.15	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	138	LEU	N-CA-C	-9.38	101.84	113.38
1	89	65	ALA	CA-C-N	9.38	132.64	120.44
1	89	65	ALA	C-N-CA	9.38	132.64	120.44
1	8s	165	VAL	N-CA-C	9.39	120.19	110.62
1	9c	1	PRO	CA-C-N	9.39	133.11	120.63
1	9c	1	PRO	C-N-CA	9.39	133.11	120.63
1	9G	99	PRO	N-CA-CB	9.38	109.52	103.23
1	e3	78	ALA	N-CA-C	9.38	122.37	111.11
1	ef	115	ILE	CA-C-N	9.38	130.40	119.98
1	ef	115	ILE	C-N-CA	9.38	130.40	119.98
1	ek	117	TRP	N-CA-C	9.39	122.69	111.33
1	eH	184	TRP	CA-C-N	9.39	132.86	120.28
1	eH	184	TRP	C-N-CA	9.39	132.86	120.28
1	eM	174	ALA	CA-C-N	9.38	134.92	120.75
1	eM	174	ALA	C-N-CA	9.38	134.92	120.75
1	iA	139	ASN	CA-CB-CG	9.38	121.98	112.60
1	kE	45	GLU	CA-C-O	9.38	130.93	120.80
1	6b	166	ASP	CA-CB-CG	9.38	121.98	112.60
1	6y	226	HIS	CG-CD2-NE2	9.38	116.58	107.20
1	9l	135	ILE	O-C-N	-9.38	112.77	121.87
1	aj	92	GLU	CA-C-N	9.38	131.57	119.84
1	aj	92	GLU	C-N-CA	9.38	131.57	119.84
1	c5	57	ASN	N-CA-C	9.38	121.51	111.28
1	gx	73	ILE	N-CA-C	9.38	120.19	110.72
1	3f	55	MET	N-CA-CB	9.38	123.61	110.01
1	4j	139	ASN	OD1-CG-ND2	-9.38	113.22	122.60
1	5x	198	CYS	CA-C-N	9.38	133.20	120.54
1	5x	198	CYS	C-N-CA	9.38	133.20	120.54
1	9B	36	VAL	CA-C-N	9.38	127.83	120.33
1	9B	36	VAL	C-N-CA	9.38	127.83	120.33
1	9R	5	ASN	CA-CB-CG	-9.38	103.22	112.60
1	al	101	GLY	CA-C-N	9.38	132.85	120.28
1	al	101	GLY	C-N-CA	9.38	132.85	120.28
1	is	125	PRO	CA-C-O	-9.38	114.37	121.31
1	2M	195	ASN	N-CA-C	9.38	120.38	109.60
1	8J	56	LEU	N-CA-C	9.38	121.11	111.07
1	bV	150	ILE	N-CA-C	9.38	121.31	110.62
1	cF	220	GLY	CA-C-N	9.38	132.38	120.56
1	cF	220	GLY	C-N-CA	9.38	132.38	120.56
1	5d	167	ARG	NE-CZ-NH1	9.38	130.88	121.50
1	92	55	MET	CA-C-N	9.38	132.63	120.44
1	92	55	MET	C-N-CA	9.38	132.63	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	184	TRP	CA-C-N	9.38	132.63	120.44
1	aA	184	TRP	C-N-CA	9.38	132.63	120.44
1	fN	121	ASN	N-CA-C	9.38	123.02	110.08
1	hD	132	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	hT	203	LYS	N-CA-C	9.38	121.58	111.36
1	3A	12	HIS	N-CA-C	9.38	124.67	109.76
1	3A	120	HIS	N-CA-CB	-9.38	97.53	110.38
1	iE	143	ARG	N-CA-C	9.37	121.50	111.28
1	8q	51	ASP	CA-C-N	9.38	132.84	120.28
1	8q	51	ASP	C-N-CA	9.38	132.84	120.28
1	9N	65	ALA	N-CA-C	9.38	121.50	111.28
1	1a	27	VAL	CA-C-N	9.38	133.78	120.28
1	1a	27	VAL	C-N-CA	9.38	133.78	120.28
1	c3	40	PHE	CA-CB-CG	9.38	123.18	113.80
1	1k	124	ILE	O-C-N	-9.38	114.89	121.55
1	B	82	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	B	140	LYS	N-CA-C	9.38	121.10	111.07
1	hr	168	PHE	CA-CB-CG	9.37	123.17	113.80
1	l5	201	ILE	CB-CA-C	-9.37	99.49	112.14
1	lL	83	LEU	N-CA-C	-9.37	99.89	112.26
1	35	160	PRO	N-CA-CB	-9.37	95.69	102.25
1	8A	97	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	al	135	ILE	N-CA-C	9.37	120.18	110.62
1	9p	115	ILE	CA-C-N	9.37	130.58	119.99
1	9p	115	ILE	C-N-CA	9.37	130.58	119.99
1	eU	193	ASN	OD1-CG-ND2	-9.37	113.23	122.60
1	fu	229	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	d	91	ILE	N-CA-C	-9.37	102.73	111.45
1	h	112	GLN	O-C-N	-9.37	111.47	122.15
1	F	39	MET	CA-C-O	9.37	130.35	120.42
1	gE	47	ALA	N-CA-C	9.37	124.01	110.24
1	hc	93	PRO	CA-C-N	9.37	130.65	120.44
1	hc	93	PRO	C-N-CA	9.37	130.65	120.44
1	kk	179	GLN	N-CA-C	9.37	122.67	111.33
1	7E	142	VAL	N-CA-C	9.37	120.18	110.62
1	kB	229	ARG	NE-CZ-NH1	9.37	130.87	121.50
1	ln	50	GLN	O-C-N	-9.37	112.35	122.09
1	95	72	THR	O-C-N	-9.37	112.42	122.07
1	aJ	131	LYS	CA-C-O	9.37	130.75	120.63
1	bW	103	ASP	CA-CB-CG	-9.37	103.23	112.60
1	dw	59	VAL	N-CA-C	9.37	121.01	109.30
1	e4	37	ILE	O-C-N	-9.37	114.42	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3K	196	PRO	CA-C-N	9.37	132.83	120.28
1	3K	196	PRO	C-N-CA	9.37	132.83	120.28
1	5v	139	ASN	O-C-N	-9.37	112.35	122.09
1	5P	229	ARG	NE-CZ-NH2	9.37	127.63	119.20
1	5T	197	ASP	N-CA-C	9.37	121.49	111.28
1	71	19	THR	N-CA-C	9.37	121.49	111.28
1	7t	223	GLY	O-C-N	9.37	131.14	121.77
1	8T	198	CYS	CA-C-N	9.37	132.83	120.28
1	8T	198	CYS	C-N-CA	9.37	132.83	120.28
1	fL	113	GLU	N-CA-C	9.37	121.57	111.36
1	J	111	LEU	O-C-N	-9.37	112.42	122.07
1	gM	107	THR	CA-CB-OG1	9.37	123.65	109.60
1	ha	16	SER	N-CA-C	9.37	121.53	109.64
1	j9	50	GLN	N-CA-C	9.37	122.48	111.71
1	jc	58	THR	CA-C-O	9.37	130.35	120.42
1	bp	214	MET	N-CA-C	9.37	121.49	111.28
1	1i	87	HIS	CA-CB-CG	-9.37	104.43	113.80
1	5	26	VAL	N-CA-C	9.37	120.17	110.62
1	j2	230	VAL	N-CA-C	9.36	122.25	109.80
1	ks	142	VAL	N-CA-C	9.36	119.41	110.42
1	2i	51	ASP	CA-CB-CG	-9.36	103.24	112.60
1	4q	132	ARG	NE-CZ-NH2	-9.37	110.77	119.20
1	6i	59	VAL	N-CA-C	9.36	120.19	110.36
1	6t	192	GLN	N-CA-C	9.37	121.49	111.28
1	ca	32	PHE	CA-CB-CG	-9.36	104.44	113.80
1	cV	48	THR	CA-C-O	-9.36	110.39	120.88
1	ko	121	ASN	CA-CB-CG	-9.36	103.24	112.60
1	lg	174	ALA	CA-C-N	9.36	134.02	120.82
1	lg	174	ALA	C-N-CA	9.36	134.02	120.82
1	3N	48	THR	O-C-N	-9.36	111.68	121.60
1	5k	32	PHE	CA-CB-CG	-9.36	104.44	113.80
1	6e	108	THR	N-CA-CB	9.36	124.75	110.61
1	6y	62	HIS	CA-C-N	9.36	133.76	120.28
1	6y	62	HIS	C-N-CA	9.36	133.76	120.28
1	6t	123	PRO	N-CA-CB	-9.36	93.42	103.25
1	cc	122	PRO	CA-C-N	9.36	129.45	119.90
1	cc	122	PRO	C-N-CA	9.36	129.45	119.90
1	gB	43	LEU	CA-C-O	9.36	130.47	120.55
1	2T	120	HIS	CA-CB-CG	9.36	123.16	113.80
1	6g	98	GLU	N-CA-C	9.36	121.08	109.57
1	8D	217	ALA	N-CA-C	9.36	122.41	110.24
1	9n	131	LYS	N-CA-C	9.36	122.66	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9M	171	THR	CA-C-N	9.36	132.61	120.44
1	9M	171	THR	C-N-CA	9.36	132.61	120.44
1	au	152	ASP	CA-C-N	9.36	136.27	122.98
1	au	152	ASP	C-N-CA	9.36	136.27	122.98
1	aO	139	ASN	CA-CB-CG	9.36	121.96	112.60
1	D	74	ASN	OD1-CG-ND2	-9.36	113.24	122.60
1	3f	120	HIS	CA-CB-CG	9.36	123.16	113.80
1	3N	36	VAL	CA-C-N	9.36	127.82	120.33
1	3N	36	VAL	C-N-CA	9.36	127.82	120.33
1	cH	37	ILE	N-CA-CB	9.36	116.79	110.52
1	d4	76	GLU	N-CA-C	9.36	122.68	111.82
1	ju	91	ILE	O-C-N	-9.36	112.98	122.62
1	l4	139	ASN	CA-C-O	9.36	130.91	120.90
1	3u	84	HIS	CE1-NE2-CD2	-9.36	99.64	109.00
1	6E	42	ALA	N-CA-C	9.36	121.08	111.07
1	6F	188	THR	CA-C-N	9.36	132.82	120.28
1	6F	188	THR	C-N-CA	9.36	132.82	120.28
1	8T	169	TYR	N-CA-C	9.36	121.48	111.28
1	5	211	LEU	N-CA-C	9.36	122.65	111.33
1	hq	126	VAL	CA-C-N	9.35	130.32	119.94
1	hq	126	VAL	C-N-CA	9.35	130.32	119.94
1	hY	79	GLU	N-CA-C	9.35	122.47	111.71
1	ik	192	GLN	OE1-CD-NE2	-9.35	113.25	122.60
1	jq	171	THR	CA-C-N	9.35	132.81	120.28
1	jq	171	THR	C-N-CA	9.35	132.81	120.28
1	k1	148	THR	N-CA-C	9.35	123.07	110.35
1	kT	138	LEU	CA-C-N	9.35	132.81	120.28
1	kT	138	LEU	C-N-CA	9.35	132.81	120.28
1	3C	201	ILE	N-CA-C	9.35	119.40	110.42
1	6x	2	ILE	O-C-N	-9.35	113.03	122.76
1	cT	36	VAL	CA-C-N	9.35	127.81	120.33
1	cT	36	VAL	C-N-CA	9.35	127.81	120.33
1	d4	20	LEU	CA-C-N	9.35	132.81	120.28
1	d4	20	LEU	C-N-CA	9.35	132.81	120.28
1	jP	84	HIS	CA-C-N	9.35	129.29	119.85
1	jP	84	HIS	C-N-CA	9.35	129.29	119.85
1	kY	100	ARG	NE-CZ-NH2	-9.35	110.78	119.20
1	64	69	LEU	O-C-N	-9.35	111.49	122.15
1	6R	36	VAL	CA-C-N	9.35	129.41	120.43
1	6R	36	VAL	C-N-CA	9.35	129.41	120.43
1	d3	124	ILE	CA-C-O	9.35	126.03	119.20
1	dE	147	PRO	CB-CA-C	9.35	122.05	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1o	67	GLN	N-CA-C	9.35	121.47	111.28
1	e8	152	ASP	CA-C-N	9.35	135.96	120.62
1	e8	152	ASP	C-N-CA	9.35	135.96	120.62
1	lz	195	ASN	CA-CB-CG	9.35	121.95	112.60
1	ca	36	VAL	CA-C-N	9.35	126.13	120.24
1	ca	36	VAL	C-N-CA	9.35	126.13	120.24
1	iP	128	GLU	CA-C-N	9.35	132.66	120.60
1	iP	128	GLU	C-N-CA	9.35	132.66	120.60
1	5T	121	ASN	OD1-CG-ND2	-9.35	113.25	122.60
1	7D	185	MET	CA-C-N	9.35	132.81	120.28
1	7D	185	MET	C-N-CA	9.35	132.81	120.28
1	9k	185	MET	CA-C-N	9.35	133.16	120.44
1	9k	185	MET	C-N-CA	9.35	133.16	120.44
1	1q	167	ARG	N-CA-C	9.35	122.46	111.71
1	9i	184	TRP	CA-C-O	-9.35	110.64	120.55
1	9D	55	MET	N-CA-C	9.35	121.47	111.28
1	9J	199	LYS	N-CA-C	9.35	122.33	111.11
1	l3	186	THR	N-CA-C	9.35	121.07	111.07
1	5s	167	ARG	NE-CZ-NH1	9.35	130.85	121.50
1	ah	176	GLN	OE1-CD-NE2	9.35	131.95	122.60
1	29	76	GLU	N-CA-C	9.35	121.07	111.07
1	3C	37	ILE	O-C-N	-9.35	113.43	120.07
1	7k	120	HIS	CA-CB-CG	9.35	123.15	113.80
1	7E	101	GLY	CA-C-O	9.35	130.38	120.75
1	96	80	TRP	N-CA-C	9.35	121.47	111.28
1	c9	87	HIS	CA-CB-CG	9.35	123.15	113.80
1	dQ	36	VAL	CA-C-N	9.35	127.81	120.33
1	dQ	36	VAL	C-N-CA	9.35	127.81	120.33
1	eq	178	SER	N-CA-CB	9.35	124.87	109.92
1	f2	29	GLU	N-CA-C	9.35	121.47	111.28
1	fk	132	ARG	NE-CZ-NH2	-9.35	110.79	119.20
1	W	36	VAL	N-CA-C	9.35	120.15	110.62
1	6	87	HIS	ND1-CE1-NE2	9.35	117.75	108.40
1	gt	195	ASN	CA-CB-CG	9.34	121.94	112.60
1	hc	227	LYS	N-CA-C	9.34	121.46	111.28
1	in	75	GLU	CA-C-N	9.34	133.56	120.29
1	in	75	GLU	C-N-CA	9.34	133.56	120.29
1	jJ	158	LYS	CA-C-O	9.34	129.52	119.34
1	39	228	ALA	N-CA-C	9.34	124.47	112.89
1	3o	82	ARG	NE-CZ-NH1	9.34	130.84	121.50
1	72	74	ASN	N-CA-C	9.34	121.07	111.07
1	7m	84	HIS	ND1-CE1-NE2	9.34	117.74	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9H	188	THR	CA-C-N	9.34	132.80	120.28
1	9H	188	THR	C-N-CA	9.34	132.80	120.28
1	dr	21	ASN	N-CA-C	9.34	121.07	111.07
1	dP	139	ASN	CA-CB-CG	9.34	121.94	112.60
1	eH	73	ILE	CA-C-O	-9.34	110.95	120.85
1	fE	136	LEU	CA-C-N	9.34	130.28	120.00
1	fE	136	LEU	C-N-CA	9.34	130.28	120.00
1	E	21	ASN	CA-CB-CG	9.34	121.94	112.60
1	i5	204	ALA	N-CA-C	9.34	121.23	111.14
1	jF	171	THR	CA-C-O	9.34	130.58	119.28
1	9y	134	ILE	CA-C-N	9.34	132.33	120.56
1	jS	184	TRP	CA-C-N	9.34	132.79	120.28
1	jS	184	TRP	C-N-CA	9.34	132.79	120.28
1	kY	25	LYS	N-CA-C	9.34	122.32	111.11
1	4K	81	ASP	CA-C-N	9.34	132.58	120.44
1	4K	81	ASP	C-N-CA	9.34	132.58	120.44
1	5g	143	ARG	NE-CZ-NH2	-9.34	110.79	119.20
1	6c	27	VAL	CB-CA-C	-9.34	101.45	112.19
1	7a	193	ASN	CA-CB-CG	-9.34	103.26	112.60
1	9y	134	ILE	C-N-CA	9.34	132.33	120.56
1	aL	100	ARG	NE-CZ-NH1	9.34	130.84	121.50
1	aZ	185	MET	N-CA-C	9.34	121.06	111.07
1	ca	121	ASN	CA-CB-CG	-9.34	103.26	112.60
1	cB	170	LYS	N-CA-C	9.34	121.06	111.07
1	e3	100	ARG	NE-CZ-NH2	-9.34	110.79	119.20
1	ep	126	VAL	O-C-N	-9.34	112.74	121.89
1	d	84	HIS	CA-C-N	9.34	129.42	119.89
1	d	84	HIS	C-N-CA	9.34	129.42	119.89
1	ga	57	ASN	N-CA-C	9.34	122.45	111.71
1	hL	172	LEU	N-CA-C	9.34	121.46	111.28
1	5g	161	PHE	CA-CB-CG	-9.34	104.46	113.80
1	dS	177	ALA	N-CA-C	9.34	124.46	110.64
1	iA	175	GLU	O-C-N	-9.34	112.41	122.96
1	j7	18	ARG	CA-C-N	9.34	132.58	120.44
1	j7	18	ARG	C-N-CA	9.34	132.58	120.44
1	4A	125	PRO	N-CA-CB	-9.34	93.45	103.25
1	6r	211	LEU	O-C-N	-9.34	110.79	122.27
1	6s	139	ASN	CA-CB-CG	9.34	121.94	112.60
1	7Z	18	ARG	CA-C-O	-9.34	110.52	120.42
1	9p	48	THR	CA-C-O	-9.34	111.02	120.64
1	fQ	35	GLU	N-CA-C	9.34	124.48	112.34
1	aR	89	GLY	CA-C-N	9.34	129.42	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aR	89	GLY	C-N-CA	9.34	129.42	119.90
1	fk	162	ARG	NE-CZ-NH1	9.34	130.84	121.50
1	b8	139	ASN	CA-C-N	9.34	134.50	120.31
1	b8	139	ASN	C-N-CA	9.34	134.50	120.31
1	3	9	GLN	OE1-CD-NE2	9.34	131.94	122.60
1	W	27	VAL	N-CA-C	9.34	120.14	110.62
1	hu	92	GLU	CA-C-N	9.33	129.09	119.76
1	hu	92	GLU	C-N-CA	9.33	129.09	119.76
1	ii	40	PHE	CA-C-N	9.33	132.79	120.28
1	ii	40	PHE	C-N-CA	9.33	132.79	120.28
1	jo	159	GLU	O-C-N	-9.33	112.99	121.30
1	ky	212	GLU	O-C-N	-9.33	112.23	122.12
1	d0	14	ALA	CA-C-N	9.33	134.32	120.69
1	4a	15	ILE	O-C-N	-9.33	113.15	122.67
1	4B	25	LYS	N-CA-C	9.33	122.62	111.33
1	4P	140	LYS	CA-C-N	9.33	132.64	120.60
1	4P	140	LYS	C-N-CA	9.33	132.64	120.60
1	d0	14	ALA	C-N-CA	9.33	134.32	120.69
1	5j	111	LEU	CA-C-N	9.33	132.78	120.28
1	5j	111	LEU	C-N-CA	9.33	132.78	120.28
1	7f	66	MET	CA-C-O	-9.33	110.66	120.55
1	7m	62	HIS	CB-CG-CD2	-9.33	119.07	131.20
1	8t	66	MET	O-C-N	-9.33	112.23	122.12
1	8K	11	VAL	CA-C-N	9.33	134.12	120.87
1	8K	11	VAL	C-N-CA	9.33	134.12	120.87
1	be	122	PRO	CA-C-N	9.33	131.51	119.84
1	be	122	PRO	C-N-CA	9.33	131.51	119.84
1	f6	77	ALA	N-CA-C	9.33	122.62	111.33
1	fP	131	LYS	CA-C-N	9.33	132.79	120.28
1	fP	131	LYS	C-N-CA	9.33	132.79	120.28
1	ek	169	TYR	N-CA-C	9.33	121.45	111.28
1	hj	143	ARG	NE-CZ-NH2	-9.33	110.80	119.20
1	hx	28	GLU	N-CA-C	9.33	121.05	111.07
1	hF	74	ASN	CA-CB-CG	-9.33	103.27	112.60
1	hy	41	SER	CA-C-O	-9.33	110.66	120.55
1	i0	177	ALA	N-CA-C	9.33	121.89	110.41
1	jy	167	ARG	CA-C-O	9.33	130.44	120.55
1	1Y	195	ASN	CA-C-N	9.33	129.41	119.05
1	1Y	195	ASN	C-N-CA	9.33	129.41	119.05
1	6o	120	HIS	CA-CB-CG	9.33	123.13	113.80
1	7U	114	GLN	CA-C-N	9.33	132.50	120.56
1	7U	114	GLN	C-N-CA	9.33	132.50	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aR	167	ARG	NE-CZ-NH1	9.33	130.83	121.50
1	3v	53	ASN	CA-CB-CG	-9.33	103.27	112.60
1	by	102	SER	N-CA-C	9.33	121.45	111.28
1	c6	142	VAL	N-CA-C	9.33	120.16	110.36
1	cC	100	ARG	CA-C-O	-9.33	111.21	121.94
1	dV	65	ALA	O-C-N	-9.33	112.23	122.12
1	gU	57	ASN	CA-CB-CG	-9.33	103.27	112.60
1	gY	143	ARG	NE-CZ-NH2	9.33	127.59	119.20
1	hF	72	THR	CA-C-N	9.33	132.31	120.56
1	hF	72	THR	C-N-CA	9.33	132.31	120.56
1	9t	37	ILE	O-C-N	-9.33	114.45	120.42
1	46	5	ASN	CA-CB-CG	9.33	121.93	112.60
1	4m	179	GLN	N-CA-C	9.33	121.53	111.36
1	5t	145	TYR	N-CA-C	9.33	124.39	112.92
1	5I	168	PHE	CA-CB-CG	9.33	123.13	113.80
1	8X	53	ASN	CA-CB-CG	-9.33	103.27	112.60
1	b0	191	VAL	N-CA-C	9.33	119.38	110.42
1	5U	192	GLN	N-CA-C	9.33	121.53	111.36
1	6P	186	THR	N-CA-C	9.33	121.44	111.28
1	7H	162	ARG	N-CA-C	9.33	121.44	111.28
1	1c	53	ASN	CA-CB-CG	-9.33	103.27	112.60
1	d	115	ILE	N-CA-C	9.33	119.37	110.42
1	1	51	ASP	CA-C-N	9.33	132.56	120.44
1	1	51	ASP	C-N-CA	9.33	132.56	120.44
1	F	186	THR	N-CA-C	9.33	121.05	111.07
1	gG	142	VAL	CA-C-N	9.32	132.78	120.28
1	gG	142	VAL	C-N-CA	9.32	132.78	120.28
1	k7	40	PHE	CA-C-N	9.32	132.56	120.44
1	k7	40	PHE	C-N-CA	9.32	132.56	120.44
1	0	230	VAL	N-CA-C	9.32	120.13	110.62
1	d	143	ARG	CA-C-N	9.32	132.56	120.44
1	d	143	ARG	C-N-CA	9.32	132.56	120.44
1	2w	82	ARG	N-CA-C	9.32	121.44	111.28
1	4e	122	PRO	CA-C-N	9.32	129.27	119.85
1	4e	122	PRO	C-N-CA	9.32	129.27	119.85
1	6g	71	GLU	O-C-N	-9.32	112.24	122.12
1	aq	100	ARG	NE-CZ-NH1	9.32	130.82	121.50
1	bb	158	LYS	N-CA-C	-9.32	100.29	112.41
1	dW	86	VAL	O-C-N	-9.32	113.28	122.98
1	gn	132	ARG	N-CA-C	9.32	122.30	111.11
1	cH	26	VAL	N-CA-C	9.32	120.15	110.36
1	1B	126	VAL	CA-C-N	9.32	130.25	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	57	ASN	CA-CB-CG	-9.32	103.28	112.60
1	8n	122	PRO	CA-C-N	9.32	129.40	119.89
1	8n	122	PRO	C-N-CA	9.32	129.40	119.89
1	90	206	GLY	CA-C-N	9.32	129.07	119.19
1	90	206	GLY	C-N-CA	9.32	129.07	119.19
1	ax	84	HIS	CA-C-O	-9.32	110.18	119.69
1	1B	126	VAL	C-N-CA	9.32	130.25	120.00
1	9N	103	ASP	CA-C-N	9.32	132.49	120.56
1	9N	103	ASP	C-N-CA	9.32	132.49	120.56
1	15	14	ALA	N-CA-C	9.32	122.83	110.53
1	f1	114	GLN	CA-C-O	9.32	130.43	120.55
1	1w	143	ARG	NE-CZ-NH2	-9.32	110.81	119.20
1	fG	195	ASN	CA-C-N	9.32	128.93	119.24
1	fG	195	ASN	C-N-CA	9.32	128.93	119.24
1	iy	195	ASN	CA-CB-CG	9.32	121.92	112.60
1	k7	168	PHE	CA-C-O	9.32	130.60	120.82
1	j3	29	GLU	O-C-N	-9.32	112.09	122.34
1	lC	21	ASN	CA-CB-CG	9.32	121.92	112.60
1	lC	92	GLU	CA-C-N	9.32	129.89	119.83
1	lC	92	GLU	C-N-CA	9.32	129.89	119.83
1	2v	73	ILE	CA-C-O	9.32	130.85	119.58
1	3L	132	ARG	NE-CZ-NH2	-9.32	110.82	119.20
1	4q	43	LEU	N-CA-C	9.32	121.52	111.36
1	8K	152	ASP	CA-CB-CG	9.32	121.92	112.60
1	4Z	140	LYS	N-CA-C	9.32	122.42	111.71
1	6K	90	PRO	N-CA-C	9.32	125.92	111.11
1	6X	189	LEU	O-C-N	-9.32	112.47	122.07
1	9w	74	ASN	OD1-CG-ND2	-9.32	113.28	122.60
1	a5	103	ASP	CA-C-N	9.32	133.22	120.46
1	a5	103	ASP	C-N-CA	9.32	133.22	120.46
1	fn	97	ARG	NE-CZ-NH2	-9.32	110.81	119.20
1	fT	8	GLY	N-CA-C	9.32	123.60	112.33
1	l	136	LEU	CA-C-N	9.32	130.09	119.94
1	l	136	LEU	C-N-CA	9.32	130.09	119.94
1	es	195	ASN	CA-CB-CG	-9.31	103.28	112.60
1	1O	191	VAL	N-CA-C	9.31	120.12	110.62
1	iX	57	ASN	OD1-CG-ND2	-9.31	113.29	122.60
1	ll	174	ALA	CA-C-O	9.31	130.29	120.42
1	b3	192	GLN	N-CA-C	9.31	122.62	111.82
1	ly	21	ASN	CA-CB-CG	9.31	121.91	112.60
1	2j	3	VAL	CA-C-O	9.31	131.57	120.67
1	2J	23	TRP	N-CA-C	9.31	121.43	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4W	76	GLU	N-CA-C	9.31	121.20	111.14
1	6E	116	GLY	CA-C-N	9.31	132.76	120.28
1	6E	116	GLY	C-N-CA	9.31	132.76	120.28
1	aW	51	ASP	CA-C-O	-9.31	111.04	120.82
1	c2	189	LEU	N-CA-C	9.31	122.29	111.11
1	dk	199	LYS	CA-C-N	9.31	132.76	120.28
1	dk	199	LYS	C-N-CA	9.31	132.76	120.28
1	dq	155	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	fK	154	ARG	NE-CZ-NH1	9.31	130.81	121.50
1	f	16	SER	N-CA-C	9.31	120.31	109.60
1	gq	39	MET	CA-C-N	9.31	132.54	120.44
1	gq	39	MET	C-N-CA	9.31	132.54	120.44
1	jT	167	ARG	N-CA-C	9.31	121.03	111.07
1	kX	70	LYS	N-CA-C	9.31	121.43	111.28
1	2L	76	GLU	N-CA-C	9.31	121.43	111.28
1	4Y	164	TYR	O-C-N	-9.31	112.48	122.07
1	jI	143	ARG	NE-CZ-NH1	9.31	130.81	121.50
1	69	63	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	6d	177	ALA	CA-C-N	9.31	133.93	120.71
1	6d	177	ALA	C-N-CA	9.31	133.93	120.71
1	8U	163	ASP	CA-CB-CG	-9.31	103.29	112.60
1	95	50	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	9g	229	ARG	NE-CZ-NH2	-9.31	110.82	119.20
1	bl	143	ARG	N-CA-C	9.31	121.43	111.28
1	bz	106	GLY	CA-C-N	9.31	132.54	120.44
1	bz	106	GLY	C-N-CA	9.31	132.54	120.44
1	bM	143	ARG	NE-CZ-NH2	9.31	127.58	119.20
1	bT	45	GLU	N-CA-C	9.31	122.60	111.33
1	dj	152	ASP	CA-CB-CG	9.31	121.91	112.60
1	ez	223	GLY	O-C-N	-9.31	112.46	121.77
1	dj	124	ILE	N-CA-C	-9.31	97.64	107.60
1	dG	36	VAL	CA-C-N	9.31	126.11	120.24
1	dG	36	VAL	C-N-CA	9.31	126.11	120.24
1	eK	40	PHE	N-CA-C	9.31	121.51	111.36
1	fw	33	SER	CB-CA-C	9.31	122.51	110.22
1	k7	15	ILE	N-CA-C	9.31	121.50	108.93
1	iU	133	TRP	N-CA-C	9.31	121.42	111.28
1	k8	32	PHE	N-CA-C	9.31	123.33	112.72
1	kw	203	LYS	CA-C-N	9.31	132.75	120.28
1	kw	203	LYS	C-N-CA	9.31	132.75	120.28
1	lO	169	TYR	N-CA-C	9.31	121.43	111.28
1	5P	148	THR	CA-C-O	9.31	131.30	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	65	208	ALA	CA-C-N	9.31	134.03	120.90
1	65	208	ALA	C-N-CA	9.31	134.03	120.90
1	aK	87	HIS	N-CA-C	9.31	124.06	110.28
1	br	76	GLU	CA-C-N	9.31	132.54	120.44
1	br	76	GLU	C-N-CA	9.31	132.54	120.44
1	cd	79	GLU	N-CA-C	9.31	122.59	111.33
1	m	57	ASN	OD1-CG-ND2	-9.31	113.29	122.60
1	5c	129	ILE	CA-C-O	-9.30	110.72	121.05
1	7t	41	SER	N-CA-C	9.30	122.59	111.33
1	7z	227	LYS	CA-C-O	-9.30	111.24	120.92
1	9u	217	ALA	N-CA-C	9.30	123.72	110.23
1	cF	132	ARG	NH1-CZ-NH2	-9.31	107.20	119.30
1	c	206	GLY	CA-C-N	9.31	131.47	119.84
1	c	206	GLY	C-N-CA	9.31	131.47	119.84
1	lM	200	THR	CA-C-N	9.30	132.33	120.70
1	lM	200	THR	C-N-CA	9.30	132.33	120.70
1	45	159	GLU	CA-C-N	9.30	129.38	119.89
1	45	159	GLU	C-N-CA	9.30	129.38	119.89
1	4N	63	GLN	OE1-CD-NE2	-9.30	113.30	122.60
1	5r	47	ALA	N-CA-C	9.30	123.00	110.35
1	5T	167	ARG	N-CA-C	9.30	121.02	111.07
1	84	228	ALA	CA-C-O	9.30	129.28	119.05
1	85	131	LYS	CA-C-N	9.30	132.54	120.44
1	85	131	LYS	C-N-CA	9.30	132.54	120.44
1	a5	84	HIS	CA-CB-CG	-9.30	104.50	113.80
1	af	97	ARG	NE-CZ-NH1	9.30	130.80	121.50
1	e3	167	ARG	N-CA-C	9.30	121.42	111.28
1	e8	226	HIS	CA-CB-CG	9.30	123.10	113.80
1	fj	35	GLU	N-CA-C	9.30	123.66	111.75
1	r	136	LEU	CA-C-N	9.30	130.27	119.94
1	r	136	LEU	C-N-CA	9.30	130.27	119.94
1	1I	192	GLN	OE1-CD-NE2	-9.30	113.30	122.60
1	25	5	ASN	CA-CB-CG	-9.30	103.30	112.60
1	2a	82	ARG	NE-CZ-NH2	-9.30	110.83	119.20
1	85	140	LYS	N-CA-C	9.30	121.02	111.07
1	dj	74	ASN	O-C-N	-9.30	112.26	122.12
1	eV	62	HIS	CB-CG-CD2	-9.30	119.11	131.20
1	1x	4	GLN	N-CA-C	9.30	123.61	110.50
1	iV	44	SER	N-CA-C	9.30	123.32	112.72
1	ke	82	ARG	NE-CZ-NH2	-9.30	110.83	119.20
1	kJ	22	ALA	O-C-N	-9.30	112.26	122.12
1	kO	159	GLU	CA-C-O	-9.30	112.44	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lL	33	SER	O-C-N	-9.30	109.96	121.21
1	2i	185	MET	N-CA-C	9.30	121.02	111.07
1	4n	3	VAL	O-C-N	-9.30	114.47	122.65
1	4E	92	GLU	O-C-N	-9.30	114.30	121.55
1	4F	230	VAL	N-CA-C	9.30	122.81	109.51
1	5u	124	ILE	O-C-N	-9.30	113.04	121.41
1	1c	117	TRP	N-CA-C	9.30	121.42	111.28
1	cO	176	GLN	OE1-CD-NE2	9.30	131.90	122.60
1	4	184	TRP	N-CA-C	9.30	121.42	111.28
1	58	201	ILE	CA-C-N	9.30	133.49	120.29
1	58	201	ILE	C-N-CA	9.30	133.49	120.29
1	5m	173	ARG	NE-CZ-NH2	-9.30	110.83	119.20
1	9o	62	HIS	CA-CB-CG	-9.30	104.50	113.80
1	bU	187	GLU	N-CA-C	9.30	121.02	111.07
1	dD	32	PHE	CA-CB-CG	-9.30	104.50	113.80
1	go	131	LYS	O-C-N	-9.30	112.27	122.12
1	hI	161	PHE	CA-C-O	-9.29	110.59	120.63
1	1V	47	ALA	N-CA-C	9.30	123.71	110.23
1	jZ	130	TYR	CA-C-N	9.29	133.09	120.54
1	jZ	130	TYR	C-N-CA	9.29	133.09	120.54
1	38	82	ARG	NE-CZ-NH1	9.30	130.80	121.50
1	kE	183	ASN	OD1-CG-ND2	-9.29	113.31	122.60
1	6z	139	ASN	OD1-CG-ND2	-9.29	113.31	122.60
1	6V	208	ALA	O-C-N	-9.30	112.45	122.96
1	bX	159	GLU	O-C-N	-9.30	113.70	121.23
1	8s	97	ARG	NE-CZ-NH2	9.29	127.56	119.20
1	8w	144	MET	N-CA-C	9.29	121.49	111.36
1	9e	126	VAL	CA-C-N	9.29	130.22	120.00
1	9e	126	VAL	C-N-CA	9.29	130.22	120.00
1	aO	221	VAL	O-C-N	-9.30	112.54	122.67
1	i2	192	GLN	N-CA-C	9.29	121.01	111.07
1	6y	37	ILE	CA-C-O	-9.29	111.65	118.71
1	7t	224	PRO	N-CA-C	-9.29	101.60	114.80
1	kg	87	HIS	CA-CB-CG	9.29	123.09	113.80
1	la	177	ALA	N-CA-C	9.29	122.60	110.43
1	4c	166	ASP	N-CA-C	9.29	122.57	111.33
1	82	114	GLN	OE1-CD-NE2	-9.29	113.31	122.60
1	9k	112	GLN	N-CA-C	9.29	122.39	111.71
1	a0	64	ALA	CA-C-N	9.29	132.52	120.44
1	a0	64	ALA	C-N-CA	9.29	132.52	120.44
1	dM	201	ILE	N-CA-C	9.29	120.10	110.62
1	bf	178	SER	CA-C-N	9.29	133.08	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	178	SER	C-N-CA	9.29	133.08	120.54
1	ec	166	ASP	CA-CB-CG	9.29	121.89	112.60
1	eR	62	HIS	N-CA-C	9.29	123.94	111.30
1	o	195	ASN	CB-CA-C	9.29	122.92	109.26
1	6y	184	TRP	N-CA-C	9.29	121.01	111.07
1	6L	75	GLU	CA-C-O	9.29	130.27	120.42
1	eW	186	THR	N-CA-CB	9.29	124.53	110.22
1	g1	23	TRP	O-C-N	-9.29	112.37	122.03
1	hV	84	HIS	ND1-CE1-NE2	9.29	117.69	108.40
1	ij	134	ILE	N-CA-C	9.29	120.09	110.62
1	j8	111	LEU	N-CA-C	9.29	121.01	111.07
1	k4	143	ARG	NE-CZ-NH2	-9.29	110.84	119.20
1	kv	132	ARG	NE-CZ-NH1	9.29	130.79	121.50
1	kB	55	MET	N-CA-C	9.29	121.40	111.28
1	kG	121	ASN	CA-CB-CG	9.29	121.89	112.60
1	kK	75	GLU	N-CA-C	9.29	121.01	111.07
1	48	82	ARG	NE-CZ-NH1	9.29	130.79	121.50
1	4w	77	ALA	N-CA-C	9.29	121.01	111.07
1	6s	74	ASN	OD1-CG-ND2	-9.29	113.31	122.60
1	8O	126	VAL	N-CA-C	9.29	119.34	110.42
1	eI	75	GLU	N-CA-C	9.29	121.01	111.07
1	fz	140	LYS	N-CA-C	9.29	121.40	111.28
1	g7	162	ARG	N-CA-C	9.29	122.25	111.11
1	k	74	ASN	CA-CB-CG	-9.29	103.31	112.60
1	hM	87	HIS	CA-CB-CG	9.29	123.08	113.80
1	io	128	GLU	N-CA-C	9.29	122.59	111.82
1	ch	86	VAL	N-CA-CB	9.29	121.13	110.82
1	cC	53	ASN	N-CA-C	9.29	121.40	111.28
1	im	13	GLN	OE1-CD-NE2	-9.28	113.32	122.60
1	j0	40	PHE	N-CA-C	9.28	121.40	111.28
1	jW	175	GLU	N-CA-C	9.28	122.31	110.24
1	kv	68	MET	O-C-N	-9.29	112.28	122.12
1	l6	82	ARG	N-CA-C	9.28	121.48	111.36
1	7r	142	VAL	N-CA-C	9.29	120.11	110.36
1	8Y	229	ARG	N-CA-C	9.29	124.52	111.52
1	9O	206	GLY	O-C-N	-9.29	112.48	121.77
1	av	68	MET	CA-C-N	9.29	132.91	120.65
1	av	68	MET	C-N-CA	9.29	132.91	120.65
1	g4	58	THR	CA-C-N	9.29	133.18	120.46
1	g4	58	THR	C-N-CA	9.29	133.18	120.46
1	he	74	ASN	N-CA-C	9.28	121.40	111.28
1	lF	197	ASP	O-C-N	-9.28	112.51	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gB	167	ARG	NE-CZ-NH2	-9.28	110.85	119.20
1	jz	129	ILE	N-CA-CB	9.28	120.81	110.51
1	2U	182	LYS	N-CA-C	9.28	122.38	111.71
1	4M	168	PHE	N-CA-C	9.28	121.40	111.28
1	al	84	HIS	CA-C-N	9.28	131.44	119.84
1	al	84	HIS	C-N-CA	9.28	131.44	119.84
1	hF	36	VAL	CA-C-N	9.28	127.75	120.33
1	hF	36	VAL	C-N-CA	9.28	127.75	120.33
1	ic	195	ASN	CA-C-O	-9.28	111.02	120.02
1	ai	87	HIS	CE1-NE2-CD2	-9.28	99.72	109.00
1	gV	114	GLN	OE1-CD-NE2	-9.28	113.32	122.60
1	iC	70	LYS	N-CA-C	9.28	121.00	111.07
1	kG	18	ARG	N-CA-C	9.28	121.39	111.28
1	27	36	VAL	N-CA-C	9.28	121.20	110.62
1	lL	40	PHE	CA-C-N	9.28	132.50	120.44
1	lL	40	PHE	C-N-CA	9.28	132.50	120.44
1	6V	17	PRO	N-CA-C	-9.28	101.41	113.57
1	7m	143	ARG	CA-C-N	9.28	132.72	120.28
1	7m	143	ARG	C-N-CA	9.28	132.72	120.28
1	7M	168	PHE	CA-C-O	-9.28	111.08	120.82
1	9t	25	LYS	N-CA-C	9.28	121.39	111.28
1	bx	159	GLU	N-CA-C	9.28	121.61	109.83
1	dx	179	GLN	N-CA-C	9.28	122.38	111.71
1	h	20	LEU	CA-C-N	9.28	132.50	120.44
1	h	20	LEU	C-N-CA	9.28	132.50	120.44
1	X	142	VAL	N-CA-C	9.28	119.33	110.42
1	gO	226	HIS	CA-CB-CG	9.28	123.08	113.80
1	iz	230	VAL	N-CA-C	-9.28	103.65	111.91
1	iW	204	ALA	CA-C-N	9.28	132.71	120.28
1	iW	204	ALA	C-N-CA	9.28	132.71	120.28
1	jK	60	GLY	CA-C-N	9.28	130.55	120.44
1	jK	60	GLY	C-N-CA	9.28	130.55	120.44
1	jM	67	GLN	N-CA-C	9.28	120.99	111.07
1	2v	74	ASN	CA-CB-CG	9.28	121.88	112.60
1	u	129	ILE	N-CA-C	9.28	120.10	110.36
1	4N	9	GLN	N-CA-C	9.28	123.92	110.10
1	bV	141	ILE	N-CA-C	9.28	120.10	110.36
1	fz	100	ARG	CA-C-N	9.28	130.42	120.03
1	fz	100	ARG	C-N-CA	9.28	130.42	120.03
1	hW	166	ASP	CA-C-O	9.27	130.56	120.82
1	2G	20	LEU	N-CA-C	9.27	122.24	111.11
1	iA	55	MET	CA-C-O	9.27	130.25	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	122	PRO	CA-C-N	9.27	129.35	119.89
1	7L	122	PRO	C-N-CA	9.27	129.35	119.89
1	I	62	HIS	CA-CB-CG	-9.27	104.53	113.80
1	ky	103	ASP	CA-CB-CG	9.27	121.87	112.60
1	42	21	ASN	CA-CB-CG	9.27	121.87	112.60
1	5y	163	ASP	O-C-N	-9.27	112.08	122.09
1	6u	27	VAL	O-C-N	-9.27	112.88	121.87
1	9x	212	GLU	CA-C-N	9.27	132.70	120.28
1	9x	212	GLU	C-N-CA	9.27	132.70	120.28
1	9Z	185	MET	CA-C-N	9.27	133.08	120.38
1	9Z	185	MET	C-N-CA	9.27	133.08	120.38
1	es	214	MET	N-CA-C	9.27	122.24	111.11
1	aU	96	MET	O-C-N	-9.27	111.47	122.87
1	b2	102	SER	CA-C-O	-9.27	110.72	120.55
1	bl	92	GLU	N-CA-C	9.27	126.33	113.16
1	bq	195	ASN	CA-CB-CG	9.27	121.87	112.60
1	cf	31	ALA	N-CA-C	9.27	123.69	112.38
1	d6	95	GLN	N-CA-C	9.27	124.19	111.39
1	b	139	ASN	CA-CB-CG	-9.27	103.33	112.60
1	O	55	MET	CA-C-N	9.27	132.49	120.44
1	O	55	MET	C-N-CA	9.27	132.49	120.44
1	2R	58	THR	N-CA-C	9.27	122.23	111.11
1	4o	100	ARG	NE-CZ-NH1	9.27	130.77	121.50
1	44	43	LEU	CA-C-O	9.27	130.63	119.97
1	a6	153	ILE	N-CA-C	9.27	121.98	107.98
1	fm	206	GLY	CA-C-N	9.27	130.22	119.47
1	fm	206	GLY	C-N-CA	9.27	130.22	119.47
1	gB	168	PHE	CB-CA-C	9.27	125.64	110.81
1	hl	143	ARG	NE-CZ-NH1	9.27	130.76	121.50
1	hs	229	ARG	CA-C-N	9.27	132.92	120.50
1	hs	229	ARG	C-N-CA	9.27	132.92	120.50
1	jz	114	GLN	N-CA-C	9.27	121.38	111.28
1	jF	20	LEU	CA-C-N	9.27	133.45	120.29
1	jF	20	LEU	C-N-CA	9.27	133.45	120.29
1	3i	226	HIS	N-CA-C	9.27	121.38	111.28
1	5Y	226	HIS	CE1-NE2-CD2	-9.27	99.73	109.00
1	7F	131	LYS	N-CA-C	9.27	121.38	111.28
1	8k	154	ARG	NE-CZ-NH2	-9.27	110.86	119.20
1	aC	103	ASP	CA-CB-CG	9.27	121.87	112.60
1	cL	14	ALA	N-CA-C	9.27	122.76	110.53
1	dj	22	ALA	N-CA-C	9.27	121.38	111.28
1	0	83	LEU	O-C-N	-9.27	112.53	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gg	197	ASP	O-C-N	-9.26	112.30	122.12
1	i3	76	GLU	N-CA-C	9.26	121.38	111.28
1	iu	211	LEU	CA-C-N	9.26	133.04	120.54
1	iu	211	LEU	C-N-CA	9.26	133.04	120.54
1	2X	92	GLU	N-CA-C	-9.26	97.50	108.25
1	3Y	75	GLU	N-CA-C	9.26	121.38	111.28
1	6U	46	GLY	CA-C-N	9.26	133.92	120.95
1	6U	46	GLY	C-N-CA	9.26	133.92	120.95
1	bg	70	LYS	CA-C-N	9.26	132.69	120.28
1	bg	70	LYS	C-N-CA	9.26	132.69	120.28
1	cF	140	LYS	CA-C-N	9.26	132.23	120.56
1	cF	140	LYS	C-N-CA	9.26	132.23	120.56
1	4q	88	ALA	CA-C-O	9.26	131.25	120.69
1	13	104	ILE	CA-C-O	9.26	130.47	120.47
1	by	28	GLU	N-CA-C	9.26	122.22	111.11
1	bW	184	TRP	O-C-N	-9.26	112.53	122.07
1	1c	123	PRO	CA-C-N	9.26	133.41	122.85
1	1c	123	PRO	C-N-CA	9.26	133.41	122.85
1	k9	124	ILE	N-CA-CB	9.26	120.90	111.36
1	kF	97	ARG	N-CA-C	9.26	122.56	110.43
1	l9	129	ILE	N-CA-C	9.26	119.28	110.30
1	34	97	ARG	NE-CZ-NH2	-9.26	110.86	119.20
1	3j	73	ILE	N-CA-C	9.26	119.31	110.42
1	3L	152	ASP	O-C-N	-9.26	111.53	122.27
1	50	139	ASN	N-CA-C	9.26	121.38	111.28
1	7x	20	LEU	O-C-N	9.26	133.06	122.22
1	aU	77	ALA	CA-C-O	-9.26	110.73	120.55
1	cR	124	ILE	CA-C-O	-9.26	115.12	119.94
1	ee	145	TYR	CB-CG-CD2	-9.26	106.91	120.80
1	q	111	LEU	N-CA-C	9.26	120.98	111.07
1	1P	87	HIS	CA-CB-CG	9.26	123.06	113.80
1	1S	28	GLU	N-CA-C	9.26	121.37	111.28
1	2P	62	HIS	ND1-CE1-NE2	9.26	117.66	108.40
1	3P	10	MET	N-CA-C	9.26	123.55	110.50
1	6G	18	ARG	N-CA-C	9.26	120.98	111.07
1	ah	134	ILE	CA-C-N	9.26	132.22	120.56
1	ah	134	ILE	C-N-CA	9.26	132.22	120.56
1	bh	75	GLU	N-CA-C	9.26	121.37	111.28
1	1q	132	ARG	NE-CZ-NH1	9.26	130.76	121.50
1	f4	135	ILE	O-C-N	-9.26	112.89	121.87
1	f6	121	ASN	CA-C-O	-9.26	111.07	119.59
1	k	229	ARG	O-C-N	-9.26	112.09	123.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	im	132	ARG	NE-CZ-NH1	9.26	130.75	121.50
1	lt	136	LEU	CA-C-N	9.26	130.18	120.00
1	lt	136	LEU	C-N-CA	9.26	130.18	120.00
1	2k	169	TYR	N-CA-C	9.26	121.37	111.28
1	63	33	SER	O-C-N	-9.26	114.89	121.65
1	6o	39	MET	N-CA-C	9.26	121.37	111.28
1	dK	225	GLY	CA-C-N	9.26	132.47	120.44
1	dK	225	GLY	C-N-CA	9.26	132.47	120.44
1	gm	82	ARG	NE-CZ-NH1	9.25	130.75	121.50
1	g8	120	HIS	CA-CB-CG	9.25	123.05	113.80
1	1G	110	THR	CA-C-N	9.25	132.68	120.28
1	1G	110	THR	C-N-CA	9.25	132.68	120.28
1	jC	36	VAL	O-C-N	-9.25	112.89	121.87
1	jZ	40	PHE	O-C-N	-9.25	112.31	122.12
1	22	142	VAL	N-CA-C	9.25	120.06	110.72
1	8L	98	GLU	CA-C-O	9.25	128.45	119.75
1	ai	108	THR	N-CA-CB	9.25	124.99	110.46
1	bp	9	GLN	CA-C-N	9.25	135.08	122.77
1	bp	9	GLN	C-N-CA	9.25	135.08	122.77
1	e3	60	GLY	CA-C-N	9.25	131.43	122.27
1	e3	60	GLY	C-N-CA	9.25	131.43	122.27
1	p	210	THR	O-C-N	-9.25	112.58	122.94
1	54	5	ASN	CA-CB-CG	9.25	121.85	112.60
1	7i	146	SER	O-C-N	-9.25	111.77	121.30
1	1	53	ASN	CA-CB-CG	-9.25	103.35	112.60
1	6	133	TRP	CA-C-O	9.25	130.53	120.82
1	2D	40	PHE	N-CA-C	9.25	121.36	111.28
1	hd	226	HIS	ND1-CE1-NE2	9.25	117.65	108.40
1	20	2	ILE	N-CA-CB	9.25	121.51	111.89
1	6q	162	ARG	NE-CZ-NH2	-9.25	110.87	119.20
1	82	93	PRO	CA-C-O	-9.25	111.24	121.32
1	8D	126	VAL	CA-C-N	9.25	130.18	120.00
1	8D	126	VAL	C-N-CA	9.25	130.18	120.00
1	96	58	THR	O-C-N	-9.25	111.29	122.20
1	9d	37	ILE	N-CA-CB	9.25	116.72	110.52
1	9m	173	ARG	NE-CZ-NH1	9.25	130.75	121.50
1	bC	135	ILE	O-C-N	-9.25	112.90	121.87
1	ct	31	ALA	N-CA-C	9.25	122.35	111.71
1	cD	100	ARG	NE-CZ-NH2	-9.25	110.88	119.20
1	eC	173	ARG	NE-CZ-NH1	9.25	130.75	121.50
1	W	6	LEU	N-CA-C	9.25	122.93	110.35
1	1F	226	HIS	ND1-CE1-NE2	9.25	117.65	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l2	213	GLU	CA-C-N	9.25	133.60	120.28
1	l2	213	GLU	C-N-CA	9.25	133.60	120.28
1	lr	63	GLN	N-CA-C	9.25	120.97	111.07
1	lz	226	HIS	N-CA-C	9.25	121.44	111.36
1	55	144	MET	CA-C-O	9.25	130.22	120.42
1	8T	16	SER	CA-C-O	-9.25	110.55	120.17
1	1e	179	GLN	CA-C-N	9.25	133.42	120.29
1	1e	179	GLN	C-N-CA	9.25	133.42	120.29
1	cW	97	ARG	N-CA-C	9.25	123.30	110.35
1	d	178	SER	N-CA-C	9.25	121.66	110.19
1	da	114	GLN	OE1-CD-NE2	-9.25	113.35	122.60
1	J	168	PHE	CA-CB-CG	9.25	123.05	113.80
1	iA	100	ARG	NE-CZ-NH2	9.24	127.52	119.20
1	kn	110	THR	CA-C-N	9.24	132.67	120.28
1	kn	110	THR	C-N-CA	9.24	132.67	120.28
1	71	162	ARG	NE-CZ-NH2	9.24	127.52	119.20
1	fQ	173	ARG	NE-CZ-NH2	-9.24	110.88	119.20
1	jc	118	MET	N-CA-C	9.24	121.43	111.36
1	lQ	199	LYS	N-CA-C	9.24	121.36	111.28
1	5g	137	GLY	N-CA-C	9.24	123.82	112.73
1	7s	229	ARG	N-CA-C	9.24	123.27	110.24
1	9q	162	ARG	NE-CZ-NH1	9.24	130.75	121.50
1	bW	50	GLN	N-CA-C	9.24	120.96	111.07
1	ei	226	HIS	CE1-NE2-CD2	-9.24	99.75	109.00
1	eS	167	ARG	CA-C-O	9.24	130.22	120.70
1	9B	197	ASP	N-CA-C	9.24	122.20	111.11
1	aB	162	ARG	NE-CZ-NH2	-9.24	110.88	119.20
1	aU	216	THR	N-CA-C	-9.24	101.55	112.92
1	et	125	PRO	CA-C-N	9.24	133.12	120.46
1	et	125	PRO	C-N-CA	9.24	133.12	120.46
1	eX	172	LEU	O-C-N	-9.24	111.41	122.22
1	gx	34	PRO	CA-C-N	9.24	133.04	120.38
1	gx	34	PRO	C-N-CA	9.24	133.04	120.38
1	iv	56	LEU	O-C-N	-9.24	112.55	122.07
1	l0	183	ASN	N-CA-C	9.24	121.43	111.36
1	gZ	187	GLU	N-CA-C	9.24	121.43	111.36
1	jJ	97	ARG	NE-CZ-NH2	-9.24	110.88	119.20
1	k7	66	MET	CG-SD-CE	-9.24	80.57	100.90
1	kq	205	LEU	CA-C-N	9.24	136.38	121.87
1	kq	205	LEU	C-N-CA	9.24	136.38	121.87
1	4r	214	MET	N-CA-C	9.24	121.35	111.28
1	5o	130	TYR	N-CA-C	9.24	121.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	61	70	LYS	N-CA-C	9.24	122.20	111.11
1	6r	171	THR	CA-C-N	9.24	132.66	120.28
1	6r	171	THR	C-N-CA	9.24	132.66	120.28
1	7o	18	ARG	NE-CZ-NH2	-9.24	110.88	119.20
1	8O	113	GLU	N-CA-C	9.24	120.96	111.07
1	dM	179	GLN	CA-C-O	9.24	130.54	120.10
1	9U	217	ALA	N-CA-C	9.24	123.87	110.10
1	ea	5	ASN	CA-CB-CG	9.24	121.84	112.60
1	fx	190	LEU	CA-C-N	9.24	132.20	120.56
1	fx	190	LEU	C-N-CA	9.24	132.20	120.56
1	1C	10	MET	O-C-N	-9.24	111.06	122.24
1	1Q	120	HIS	CE1-NE2-CD2	-9.24	99.76	109.00
1	j3	143	ARG	NH1-CZ-NH2	-9.24	107.29	119.30
1	ka	163	ASP	CA-CB-CG	-9.24	103.36	112.60
1	ls	5	ASN	CA-C-O	-9.24	110.76	120.55
1	2a	126	VAL	CA-C-N	9.24	130.23	119.98
1	2a	126	VAL	C-N-CA	9.24	130.23	119.98
1	4f	212	GLU	O-C-N	-9.24	112.33	122.12
1	52	99	PRO	CA-C-O	-9.24	111.25	121.32
1	5L	189	LEU	N-CA-C	9.24	121.35	111.28
1	15	228	ALA	O-C-N	-9.24	112.11	123.01
1	cE	59	VAL	N-CA-CB	9.24	120.79	110.72
1	f8	133	TRP	CA-C-O	9.24	130.21	120.42
1	c2	209	ALA	N-CA-C	9.24	123.26	110.24
1	cL	182	LYS	CA-C-O	9.24	130.34	120.55
1	dp	96	MET	N-CA-C	9.24	123.95	110.28
1	7	82	ARG	O-C-N	-9.24	111.62	122.15
1	ih	173	ARG	N-CA-C	9.23	120.95	111.07
1	kw	12	HIS	ND1-CE1-NE2	9.23	117.64	108.40
1	kL	200	THR	CA-C-N	9.23	132.20	120.56
1	ix	194	ALA	O-C-N	-9.23	112.53	122.96
1	jU	53	ASN	CA-CB-CG	-9.23	103.37	112.60
1	kL	200	THR	C-N-CA	9.23	132.20	120.56
1	2N	229	ARG	NE-CZ-NH1	9.23	130.74	121.50
1	8Y	66	MET	N-CA-C	9.23	121.35	111.28
1	k4	77	ALA	N-CA-C	9.23	121.34	111.28
1	2v	120	HIS	CA-CB-CG	-9.23	104.57	113.80
1	3A	24	VAL	N-CA-C	9.23	119.28	110.42
1	bM	33	SER	O-C-N	-9.23	112.64	122.06
1	1t	12	HIS	CA-CB-CG	-9.23	104.56	113.80
1	4s	37	ILE	O-C-N	-9.23	114.51	120.42
1	bP	163	ASP	CA-CB-CG	9.23	121.83	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fC	9	GLN	N-CA-C	9.23	123.41	108.63
1	fV	170	LYS	N-CA-C	9.23	121.35	111.28
1	gA	128	GLU	O-C-N	-9.23	112.33	122.12
1	iV	68	MET	CA-C-N	9.23	132.44	120.44
1	iV	68	MET	C-N-CA	9.23	132.44	120.44
1	k5	58	THR	N-CA-C	-9.23	101.78	113.23
1	jr	68	MET	CA-C-N	9.23	132.44	120.44
1	jr	68	MET	C-N-CA	9.23	132.44	120.44
1	9a	199	LYS	O-C-N	-9.23	112.56	122.07
1	a5	50	GLN	N-CA-C	9.23	121.34	111.28
1	aM	215	MET	CA-C-N	9.23	132.65	120.28
1	aM	215	MET	C-N-CA	9.23	132.65	120.28
1	bG	143	ARG	NE-CZ-NH2	9.23	127.51	119.20
1	eS	203	LYS	N-CA-C	9.23	121.34	111.28
1	fc	199	LYS	CA-C-N	9.23	132.65	120.28
1	fc	199	LYS	C-N-CA	9.23	132.65	120.28
1	q	6	LEU	N-CA-C	9.23	124.37	113.20
1	fA	200	THR	CA-C-N	9.23	133.53	120.42
1	fA	200	THR	C-N-CA	9.23	133.53	120.42
1	fW	54	THR	N-CA-C	9.23	120.95	111.07
1	he	67	GLN	O-C-N	-9.23	112.34	122.12
1	jY	36	VAL	CA-C-N	9.23	127.71	120.33
1	2j	3	VAL	O-C-N	-9.23	113.21	123.18
1	5v	168	PHE	N-CA-C	9.23	121.34	111.28
1	1G	196	PRO	CA-C-N	9.23	133.00	120.54
1	1G	196	PRO	C-N-CA	9.23	133.00	120.54
1	jA	101	GLY	CA-C-N	9.23	132.65	120.28
1	jA	101	GLY	C-N-CA	9.23	132.65	120.28
1	jE	155	GLN	O-C-N	-9.23	112.24	123.04
1	jY	36	VAL	C-N-CA	9.23	127.71	120.33
1	k5	84	HIS	CA-CB-CG	-9.23	104.57	113.80
1	kO	23	TRP	N-CA-C	9.23	121.34	111.28
1	3U	75	GLU	N-CA-C	9.23	122.18	111.11
1	44	148	THR	O-C-N	-9.23	113.55	123.42
1	9W	45	GLU	N-CA-C	9.23	123.80	109.96
1	cH	168	PHE	CA-CB-CG	9.23	123.03	113.80
1	3w	121	ASN	CA-CB-CG	-9.23	103.37	112.60
1	4T	36	VAL	CA-C-N	9.23	127.71	120.33
1	4T	36	VAL	C-N-CA	9.23	127.71	120.33
1	7B	124	ILE	O-C-N	-9.23	113.11	121.41
1	bO	177	ALA	CA-C-N	9.23	135.06	121.31
1	bO	177	ALA	C-N-CA	9.23	135.06	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eB	32	PHE	N-CA-C	9.23	123.25	110.24
1	fu	175	GLU	N-CA-C	9.23	123.61	110.23
1	23	54	THR	CA-C-N	9.22	132.43	120.44
1	23	54	THR	C-N-CA	9.22	132.43	120.44
1	4G	182	LYS	N-CA-C	9.22	122.52	111.82
1	gU	30	LYS	O-C-N	-9.22	112.80	122.30
1	jS	94	GLY	CA-C-O	9.22	128.82	119.04
1	le	121	ASN	CA-CB-CG	-9.22	103.38	112.60
1	lr	226	HIS	CE1-NE2-CD2	-9.22	99.78	109.00
1	2c	191	VAL	CA-C-O	9.22	128.98	119.20
1	54	32	PHE	CA-CB-CG	-9.22	104.58	113.80
1	7Z	103	ASP	CA-CB-CG	-9.22	103.38	112.60
1	80	80	TRP	N-CA-C	9.22	120.94	111.07
1	85	84	HIS	O-C-N	-9.22	112.00	121.04
1	cX	40	PHE	CA-CB-CG	-9.22	104.58	113.80
1	cY	118	MET	O-C-N	-9.22	109.73	122.46
1	e1	162	ARG	N-CA-C	9.22	122.18	111.11
1	eQ	37	ILE	N-CA-CB	9.22	116.70	110.52
1	f2	73	ILE	N-CA-CB	9.22	120.75	110.51
1	F	31	ALA	N-CA-C	9.22	122.32	111.71
1	gp	110	THR	N-CA-CB	9.22	124.47	110.45
1	ho	161	PHE	CA-CB-CG	9.22	123.02	113.80
1	hW	58	THR	N-CA-C	9.22	122.31	111.71
1	7w	74	ASN	CA-C-N	9.22	132.64	120.28
1	7w	74	ASN	C-N-CA	9.22	132.64	120.28
1	9s	189	LEU	CA-C-N	9.22	133.01	120.38
1	9s	189	LEU	C-N-CA	9.22	133.01	120.38
1	2	52	LEU	N-CA-C	9.22	121.33	111.28
1	21	100	ARG	CA-C-N	9.22	130.17	119.94
1	21	100	ARG	C-N-CA	9.22	130.17	119.94
1	kt	114	GLN	N-CA-C	9.22	120.94	111.07
1	7s	18	ARG	CA-C-O	9.22	130.50	120.82
1	8U	167	ARG	N-CA-C	9.22	121.41	111.36
1	9O	120	HIS	CE1-NE2-CD2	-9.22	99.78	109.00
1	aG	124	ILE	O-C-N	-9.22	113.55	121.57
1	bt	66	MET	O-C-N	-9.22	112.57	122.07
1	ff	37	ILE	CA-C-O	-9.22	112.51	118.69
1	cP	116	GLY	CA-C-N	9.22	132.99	120.54
1	cP	116	GLY	C-N-CA	9.22	132.99	120.54
1	g4	35	GLU	CB-CG-CD	9.22	128.28	112.60
1	g6	195	ASN	CA-CB-CG	-9.22	103.38	112.60
1	hu	182	LYS	N-CA-C	9.22	121.33	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kl	205	LEU	CA-C-N	9.22	136.34	121.87
1	kl	205	LEU	C-N-CA	9.22	136.34	121.87
1	1L	140	LYS	CA-C-O	9.22	130.76	120.90
1	l4	173	ARG	NH1-CZ-NH2	-9.22	107.32	119.30
1	2z	148	THR	CA-CB-OG1	9.22	123.43	109.60
1	2J	100	ARG	NE-CZ-NH2	-9.22	110.90	119.20
1	7t	51	ASP	CA-CB-CG	-9.22	103.38	112.60
1	7u	163	ASP	CA-CB-CG	9.22	121.82	112.60
1	4c	15	ILE	O-C-N	-9.22	113.13	122.62
1	a8	195	ASN	CA-C-N	9.22	131.36	119.84
1	a8	195	ASN	C-N-CA	9.22	131.36	119.84
1	ay	47	ALA	N-CA-C	9.22	124.12	110.48
1	d8	26	VAL	N-CA-CB	9.22	120.67	110.62
1	eA	9	GLN	OE1-CD-NE2	-9.22	113.38	122.60
1	ge	18	ARG	NH1-CZ-NH2	-9.22	107.32	119.30
1	gE	206	GLY	O-C-N	-9.21	112.56	121.77
1	ii	229	ARG	NE-CZ-NH1	9.22	130.72	121.50
1	l9	62	HIS	CA-C-O	9.22	131.19	120.32
1	2Y	62	HIS	CA-CB-CG	-9.22	104.58	113.80
1	6r	195	ASN	CA-CB-CG	9.22	121.82	112.60
1	da	99	PRO	N-CA-CB	9.22	111.47	103.36
1	jx	53	ASN	CA-CB-CG	-9.21	103.39	112.60
1	kf	124	ILE	O-C-N	-9.21	114.27	121.46
1	kC	40	PHE	CA-C-N	9.21	132.42	120.44
1	kC	40	PHE	C-N-CA	9.21	132.42	120.44
1	2s	21	ASN	CA-CB-CG	-9.21	103.39	112.60
1	3D	114	GLN	OE1-CD-NE2	9.21	131.81	122.60
1	7V	136	LEU	CA-C-N	9.21	130.14	120.00
1	7V	136	LEU	C-N-CA	9.21	130.14	120.00
1	8m	36	VAL	CA-C-N	9.21	127.70	120.33
1	8m	36	VAL	C-N-CA	9.21	127.70	120.33
1	aL	110	THR	CA-CB-OG1	9.21	123.42	109.60
1	q	124	ILE	N-CA-CB	9.22	118.65	110.08
1	eF	33	SER	CA-C-O	-9.21	112.21	120.13
1	hS	14	ALA	O-C-N	-9.21	112.55	122.96
1	iu	193	ASN	CA-CB-CG	-9.21	103.39	112.60
1	jJ	5	ASN	CA-CB-CG	9.21	121.81	112.60
1	jZ	16	SER	O-C-N	-9.21	111.66	121.42
1	5m	140	LYS	N-CA-C	9.21	121.40	111.36
1	by	92	GLU	N-CA-C	9.21	122.65	109.84
1	lH	82	ARG	NE-CZ-NH2	9.21	127.49	119.20
1	3V	97	ARG	NE-CZ-NH2	9.21	127.49	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	139	ASN	CA-CB-CG	9.21	121.81	112.60
1	7e	125	PRO	N-CA-CB	-9.21	95.37	102.28
1	9z	162	ARG	NE-CZ-NH2	-9.21	110.91	119.20
1	9C	167	ARG	NH1-CZ-NH2	-9.21	107.33	119.30
1	bg	184	TRP	CB-CG-CD2	9.21	139.69	126.80
1	bY	68	MET	N-CA-C	9.21	122.30	111.71
1	e6	204	ALA	CA-C-N	9.21	133.37	120.29
1	e6	204	ALA	C-N-CA	9.21	133.37	120.29
1	cD	100	ARG	O-C-N	-9.21	109.98	122.23
1	c	183	ASN	OD1-CG-ND2	-9.21	113.39	122.60
1	gT	173	ARG	CA-C-N	9.21	132.97	120.54
1	gT	173	ARG	C-N-CA	9.21	132.97	120.54
1	9e	139	ASN	N-CA-C	9.21	122.30	111.71
1	bA	133	TRP	N-CA-C	9.21	122.16	111.11
1	gn	57	ASN	OD1-CG-ND2	-9.21	113.39	122.60
1	hs	191	VAL	N-CA-C	-9.21	104.17	113.10
1	iO	87	HIS	CA-CB-CG	9.21	123.01	113.80
1	jb	63	GLN	N-CA-C	9.21	121.32	111.28
1	hQ	20	LEU	N-CA-C	9.21	121.31	111.28
1	jf	140	LYS	N-CA-C	9.21	121.32	111.28
1	lF	81	ASP	CA-C-O	9.21	130.18	120.42
1	2a	97	ARG	NE-CZ-NH2	-9.21	110.91	119.20
1	5W	16	SER	CB-CA-C	9.21	122.12	108.86
1	dD	21	ASN	CA-CB-CG	9.21	121.81	112.60
1	f5	161	PHE	CA-C-N	9.21	132.41	120.44
1	f5	161	PHE	C-N-CA	9.21	132.41	120.44
1	kN	173	ARG	N-CA-C	9.21	121.32	111.28
1	7r	176	GLN	N-CA-C	9.21	123.48	110.50
1	7B	82	ARG	NE-CZ-NH1	9.21	130.71	121.50
1	fO	213	GLU	N-CA-C	9.21	120.92	111.07
1	1D	159	GLU	O-C-N	-9.21	110.63	121.12
1	1F	230	VAL	CA-C-O	9.21	131.07	121.59
1	io	54	THR	O-C-N	-9.21	112.36	122.12
1	if	63	GLN	OE1-CD-NE2	-9.20	113.40	122.60
1	kv	70	LYS	N-CA-C	9.21	121.31	111.28
1	kO	20	LEU	CA-C-N	9.21	132.61	120.28
1	kO	20	LEU	C-N-CA	9.21	132.61	120.28
1	lm	81	ASP	CA-CB-CG	-9.21	103.39	112.60
1	4o	141	ILE	N-CA-C	9.21	120.01	110.62
1	cw	201	ILE	N-CA-C	9.21	119.26	110.42
1	lM	132	ARG	NE-CZ-NH2	-9.20	110.92	119.20
1	4W	186	THR	N-CA-C	9.21	121.08	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7y	74	ASN	CA-CB-CG	-9.21	103.39	112.60
1	91	27	VAL	N-CA-C	9.21	120.02	110.72
1	cx	7	GLN	OE1-CD-NE2	-9.21	113.39	122.60
1	dr	100	ARG	NE-CZ-NH1	9.21	130.71	121.50
1	A	24	VAL	O-C-N	-9.20	112.57	121.87
1	iT	114	GLN	N-CA-C	9.20	121.31	111.28
1	jn	67	GLN	N-CA-C	9.20	120.92	111.07
1	kb	97	ARG	NE-CZ-NH2	-9.20	110.92	119.20
1	a8	139	ASN	CA-CB-CG	-9.20	103.40	112.60
1	cz	114	GLN	O-C-N	-9.20	112.59	122.07
1	jo	152	ASP	CA-CB-CG	9.20	121.80	112.60
1	kV	29	GLU	N-CA-C	9.20	121.08	111.14
1	2u	160	PRO	CA-C-N	9.20	132.40	120.44
1	2u	160	PRO	C-N-CA	9.20	132.40	120.44
1	d5	84	HIS	CE1-NE2-CD2	-9.20	99.80	109.00
1	g0	10	MET	O-C-N	-9.20	112.28	123.04
1	hv	47	ALA	O-C-N	-9.20	112.00	122.86
1	go	182	LYS	N-CA-C	9.20	122.46	111.33
1	1X	103	ASP	CA-CB-CG	9.20	121.80	112.60
1	28	34	PRO	CA-C-N	9.20	133.81	120.38
1	28	34	PRO	C-N-CA	9.20	133.81	120.38
1	2d	63	GLN	OE1-CD-NE2	-9.20	113.40	122.60
1	4k	66	MET	N-CA-C	9.20	121.31	111.28
1	6V	172	LEU	N-CA-C	9.20	121.31	111.28
1	7I	63	GLN	O-C-N	-9.20	112.59	122.07
1	bt	27	VAL	O-C-N	-9.20	112.36	121.83
1	cj	126	VAL	N-CA-C	9.20	121.11	110.62
1	fr	140	LYS	N-CA-C	9.20	120.91	111.07
1	he	121	ASN	O-C-N	-9.20	112.71	121.72
1	jx	25	LYS	N-CA-C	9.20	121.30	111.28
1	1X	77	ALA	O-C-N	-9.20	112.37	122.12
1	49	50	GLN	N-CA-C	9.20	122.15	111.11
1	52	141	ILE	N-CA-C	9.20	120.02	110.36
1	7X	32	PHE	CA-CB-CG	-9.20	104.60	113.80
1	gi	22	ALA	N-CA-C	9.19	120.91	111.07
1	l2	23	TRP	N-CA-C	9.19	121.38	111.36
1	3C	5	ASN	OD1-CG-ND2	-9.19	113.41	122.60
1	54	25	LYS	O-C-N	-9.20	112.53	122.09
1	dJ	123	PRO	CA-C-N	9.20	128.85	122.60
1	dJ	123	PRO	C-N-CA	9.20	128.85	122.60
1	f1	62	HIS	CA-CB-CG	9.20	123.00	113.80
1	fe	36	VAL	CA-C-N	9.20	126.03	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fe	36	VAL	C-N-CA	9.20	126.03	120.24
1	fj	160	PRO	N-CA-C	9.20	125.63	111.19
1	fA	169	TYR	N-CA-C	9.19	121.30	111.28
1	o	125	PRO	CA-C-O	-9.19	114.30	121.38
1	2o	124	ILE	O-C-N	9.19	127.16	121.37
1	eo	192	GLN	OE1-CD-NE2	-9.19	113.41	122.60
1	eF	156	GLY	O-C-N	-9.19	112.58	121.77
1	fT	12	HIS	ND1-CE1-NE2	9.19	117.59	108.40
1	gD	153	ILE	O-C-N	-9.19	113.15	122.62
1	hz	59	VAL	N-CA-C	9.19	120.44	108.12
1	iD	29	GLU	N-CA-C	9.19	121.38	111.36
1	33	74	ASN	OD1-CG-ND2	-9.19	113.41	122.60
1	3S	55	MET	N-CA-C	9.19	120.90	111.07
1	1u	25	LYS	N-CA-C	9.19	121.38	111.36
1	T	123	PRO	O-C-N	-9.19	112.07	123.10
1	20	138	LEU	CA-C-N	9.19	132.39	120.44
1	20	138	LEU	C-N-CA	9.19	132.39	120.44
1	3f	12	HIS	CE1-NE2-CD2	-9.19	99.81	109.00
1	5a	226	HIS	CG-CD2-NE2	9.19	116.39	107.20
1	6F	186	THR	N-CA-C	9.19	122.48	111.82
1	1t	142	VAL	CA-C-N	9.19	132.39	120.44
1	gF	87	HIS	CA-C-N	9.19	132.38	120.44
1	gF	87	HIS	C-N-CA	9.19	132.38	120.44
1	lD	201	ILE	N-CA-C	9.19	119.99	110.62
1	7W	98	GLU	O-C-N	-9.19	113.12	121.30
1	86	122	PRO	CA-C-N	9.19	129.22	119.76
1	86	122	PRO	C-N-CA	9.19	129.22	119.76
1	aa	159	GLU	N-CA-C	9.19	121.21	109.72
1	d7	70	LYS	O-C-N	-9.19	112.60	122.07
1	1t	142	VAL	C-N-CA	9.19	132.39	120.44
1	bl	198	CYS	N-CA-C	9.19	120.90	111.07
1	fv	173	ARG	N-CA-C	9.19	122.48	111.82
1	a	206	GLY	CA-C-N	9.19	129.26	119.89
1	a	206	GLY	C-N-CA	9.19	129.26	119.89
1	gT	14	ALA	N-CA-C	9.19	123.65	109.96
1	jc	37	ILE	CA-C-O	-9.19	111.04	118.85
1	9Z	72	THR	CA-C-N	9.19	132.45	120.60
1	9Z	72	THR	C-N-CA	9.19	132.45	120.60
1	ar	150	ILE	CA-C-N	9.19	132.59	120.28
1	ar	150	ILE	C-N-CA	9.19	132.59	120.28
1	3u	112	GLN	CA-C-N	9.19	132.94	120.54
1	3u	112	GLN	C-N-CA	9.19	132.94	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8L	114	GLN	N-CA-C	9.19	121.29	111.28
1	9y	139	ASN	CA-C-O	9.19	130.29	120.55
1	cJ	67	GLN	OE1-CD-NE2	-9.19	113.42	122.60
1	y	182	LYS	N-CA-C	9.19	122.13	111.11
1	T	183	ASN	CA-CB-CG	-9.19	103.42	112.60
1	gO	103	ASP	CA-C-N	9.18	132.32	120.56
1	gO	103	ASP	C-N-CA	9.18	132.32	120.56
1	iW	22	ALA	N-CA-C	9.18	122.27	111.71
1	kx	168	PHE	N-CA-C	9.18	120.90	111.07
1	ly	74	ASN	CA-CB-CG	-9.18	103.42	112.60
1	3e	204	ALA	N-CA-CB	-9.18	97.15	110.47
1	7a	146	SER	CA-C-O	-9.18	112.52	119.32
1	cw	78	ALA	CA-C-N	9.18	132.96	120.38
1	cw	78	ALA	C-N-CA	9.18	132.96	120.38
1	d6	195	ASN	CA-CB-CG	-9.18	103.42	112.60
1	e	23	TRP	CB-CG-CD2	9.18	139.66	126.80
1	4b	196	PRO	CA-C-N	9.18	132.58	120.28
1	fV	66	MET	CA-C-N	9.18	132.93	120.44
1	hh	143	ARG	N-CA-C	9.18	121.28	111.28
1	iW	53	ASN	CA-CB-CG	-9.18	103.42	112.60
1	24	189	LEU	N-CA-C	9.18	120.89	111.07
1	4b	196	PRO	C-N-CA	9.18	132.58	120.28
1	4Y	53	ASN	CA-C-N	9.18	132.58	120.28
1	4Y	53	ASN	C-N-CA	9.18	132.58	120.28
1	5A	140	LYS	CA-C-N	9.18	133.04	120.46
1	5A	140	LYS	C-N-CA	9.18	133.04	120.46
1	92	72	THR	CA-C-N	9.18	132.80	120.77
1	92	72	THR	C-N-CA	9.18	132.80	120.77
1	fV	66	MET	C-N-CA	9.18	132.93	120.44
1	5B	63	GLN	N-CA-C	9.18	121.28	111.28
1	6q	106	GLY	CA-C-N	9.18	132.58	120.28
1	6q	106	GLY	C-N-CA	9.18	132.58	120.28
1	7v	21	ASN	CA-CB-CG	-9.18	103.42	112.60
1	ax	166	ASP	CA-C-O	9.18	130.46	120.82
1	aO	29	GLU	N-CA-C	9.18	120.89	111.07
1	19	112	GLN	N-CA-C	9.18	122.44	111.33
1	df	43	LEU	CA-C-O	9.18	129.61	119.15
1	n	153	ILE	CA-C-O	9.18	131.57	120.74
1	r	75	GLU	N-CA-C	9.18	122.27	111.71
1	ge	124	ILE	CA-C-O	9.18	127.12	120.88
1	h4	34	PRO	CA-C-N	9.18	132.37	120.44
1	h4	34	PRO	C-N-CA	9.18	132.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kS	182	LYS	CA-C-N	9.18	132.93	120.54
1	kS	182	LYS	C-N-CA	9.18	132.93	120.54
1	lO	117	TRP	CA-C-N	9.18	132.58	120.28
1	lO	117	TRP	C-N-CA	9.18	132.58	120.28
1	hF	28	GLU	N-CA-C	9.18	120.89	111.07
1	3h	122	PRO	CA-C-N	9.18	131.31	119.84
1	3h	122	PRO	C-N-CA	9.18	131.31	119.84
1	3J	98	GLU	N-CA-CB	-9.18	99.10	109.74
1	8h	126	VAL	CA-C-N	9.18	130.36	119.99
1	8h	126	VAL	C-N-CA	9.18	130.36	119.99
1	9d	183	ASN	CA-CB-CG	-9.18	103.42	112.60
1	9k	162	ARG	NE-CZ-NH1	9.18	130.68	121.50
1	aK	103	ASP	CA-CB-CG	-9.18	103.42	112.60
1	cp	226	HIS	CA-CB-CG	-9.18	104.62	113.80
1	cD	211	LEU	N-CA-C	9.18	122.43	111.33
1	A	148	THR	O-C-N	-9.18	111.40	122.96
1	3	173	ARG	N-CA-C	9.18	121.28	111.28
1	ic	100	ARG	NE-CZ-NH1	9.17	130.67	121.50
1	kz	168	PHE	CA-C-N	9.17	132.57	120.28
1	kz	168	PHE	C-N-CA	9.17	132.57	120.28
1	9l	115	ILE	CA-C-N	9.17	130.16	119.98
1	9l	115	ILE	C-N-CA	9.17	130.16	119.98
1	hR	115	ILE	N-CA-CB	9.17	121.28	110.55
1	kB	167	ARG	N-CA-C	9.17	121.28	111.28
1	2A	10	MET	N-CA-C	9.17	121.28	111.28
1	2T	203	LYS	N-CA-C	9.17	122.43	111.33
1	4I	163	ASP	CA-CB-CG	9.17	121.77	112.60
1	4P	57	ASN	CA-CB-CG	9.17	121.77	112.60
1	cn	175	GLU	N-CA-C	9.17	123.49	108.26
1	bb	166	ASP	CA-CB-CG	9.17	121.77	112.60
1	bS	83	LEU	CA-C-O	-9.17	111.25	120.70
1	g5	193	ASN	CA-CB-CG	9.17	121.77	112.60
1	1F	226	HIS	CE1-NE2-CD2	-9.17	99.83	109.00
1	l0	31	ALA	CA-C-N	9.17	133.79	120.95
1	l0	31	ALA	C-N-CA	9.17	133.79	120.95
1	2y	128	GLU	N-CA-C	9.17	120.88	111.07
1	40	167	ARG	NE-CZ-NH2	-9.17	110.95	119.20
1	5i	21	ASN	CA-C-O	9.17	130.14	120.42
1	6p	192	GLN	N-CA-C	9.17	124.28	113.18
1	er	121	ASN	O-C-N	-9.17	109.82	121.10
1	fg	87	HIS	N-CA-C	9.17	122.16	110.24
1	aR	130	TYR	CA-C-O	9.17	130.27	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1b	228	ALA	N-CA-C	9.17	123.85	110.28
1	cW	84	HIS	CB-CA-C	-9.17	98.42	110.34
1	dm	41	SER	N-CA-CB	9.17	123.60	110.12
1	ec	190	LEU	N-CA-C	9.17	120.88	111.07
1	ht	139	ASN	CA-CB-CG	9.17	121.77	112.60
1	l5	224	PRO	CA-C-N	9.17	128.72	119.92
1	l5	224	PRO	C-N-CA	9.17	128.72	119.92
1	2U	14	ALA	N-CA-C	9.17	122.16	110.24
1	3q	96	MET	CA-C-N	9.17	134.59	120.75
1	3q	96	MET	C-N-CA	9.17	134.59	120.75
1	5H	120	HIS	CA-CB-CG	9.17	122.97	113.80
1	8F	172	LEU	CA-C-N	9.17	132.57	120.28
1	8F	172	LEU	C-N-CA	9.17	132.57	120.28
1	dd	162	ARG	NE-CZ-NH2	9.17	127.45	119.20
1	63	193	ASN	OD1-CG-ND2	-9.17	113.43	122.60
1	6x	159	GLU	CA-C-N	9.17	129.74	119.93
1	6x	159	GLU	C-N-CA	9.17	129.74	119.93
1	7o	165	VAL	CA-C-N	9.17	133.53	120.79
1	7o	165	VAL	C-N-CA	9.17	133.53	120.79
1	ct	15	ILE	O-C-N	-9.17	113.18	122.62
1	dp	143	ARG	CA-C-O	9.17	130.45	120.82
1	U	195	ASN	O-C-N	-9.17	111.26	121.53
1	il	229	ARG	NE-CZ-NH2	9.16	127.45	119.20
1	2L	67	GLN	CA-C-N	9.16	132.35	120.44
1	5j	182	LYS	N-CA-C	9.16	121.27	111.28
1	8I	223	GLY	CA-C-N	9.16	129.25	119.90
1	gO	82	ARG	N-CA-C	9.16	122.25	111.71
1	kT	210	THR	N-CA-CB	9.16	123.50	109.85
1	2L	67	GLN	C-N-CA	9.16	132.35	120.44
1	4O	154	ARG	NE-CZ-NH2	-9.16	110.95	119.20
1	8I	223	GLY	C-N-CA	9.16	129.25	119.90
1	bT	82	ARG	CD-NE-CZ	9.16	137.23	124.40
1	lx	122	PRO	CA-C-N	9.16	129.25	119.90
1	lx	122	PRO	C-N-CA	9.16	129.25	119.90
1	4u	131	LYS	O-C-N	-9.16	112.56	122.09
1	aG	124	ILE	CA-C-O	9.16	124.56	119.15
1	bl	82	ARG	NE-CZ-NH1	9.16	130.66	121.50
1	bN	77	ALA	CA-C-N	9.16	132.35	120.44
1	bN	77	ALA	C-N-CA	9.16	132.35	120.44
1	ef	226	HIS	N-CA-C	9.16	123.18	110.35
1	ft	54	THR	CA-C-N	9.16	132.35	120.44
1	ft	54	THR	C-N-CA	9.16	132.35	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1x	126	VAL	N-CA-C	9.16	119.97	110.62
1	fy	40	PHE	CA-CB-CG	-9.16	104.64	113.80
1	h2	53	ASN	CA-CB-CG	-9.16	103.44	112.60
1	3n	120	HIS	CB-CG-CD2	-9.16	119.29	131.20
1	5H	94	GLY	O-C-N	-9.16	112.29	122.55
1	h4	161	PHE	CA-CB-CG	9.16	122.96	113.80
1	6S	33	SER	CA-C-N	9.16	128.77	119.24
1	6S	33	SER	C-N-CA	9.16	128.77	119.24
1	7i	18	ARG	CA-C-N	9.16	132.35	120.44
1	7i	18	ARG	C-N-CA	9.16	132.35	120.44
1	97	134	ILE	N-CA-C	9.16	119.21	110.42
1	11	66	MET	CA-C-N	9.16	133.29	120.29
1	11	66	MET	C-N-CA	9.16	133.29	120.29
1	ee	27	VAL	O-C-N	9.16	131.10	121.94
1	1q	121	ASN	OD1-CG-ND2	-9.16	113.44	122.60
1	gk	25	LYS	N-CA-C	9.16	121.26	111.28
1	6W	181	VAL	N-CA-C	9.16	119.21	110.42
1	jg	91	ILE	CA-C-N	9.16	133.12	120.39
1	jg	91	ILE	C-N-CA	9.16	133.12	120.39
1	lB	82	ARG	NH1-CZ-NH2	-9.16	107.40	119.30
1	2p	174	ALA	N-CA-C	9.16	121.03	111.14
1	3f	12	HIS	ND1-CE1-NE2	9.16	117.56	108.40
1	4j	124	ILE	N-CA-C	-9.16	97.80	107.60
1	b8	68	MET	CA-C-N	9.16	132.34	120.44
1	b8	68	MET	C-N-CA	9.16	132.34	120.44
1	bH	210	THR	CA-C-N	9.16	132.55	120.28
1	bH	210	THR	C-N-CA	9.16	132.55	120.28
1	7	193	ASN	OD1-CG-ND2	-9.16	113.44	122.60
1	fW	121	ASN	O-C-N	-9.16	113.24	121.39
1	i0	34	PRO	CA-C-N	9.15	132.55	120.28
1	i0	34	PRO	C-N-CA	9.15	132.55	120.28
1	jQ	92	GLU	CA-C-N	9.15	129.73	119.93
1	jQ	92	GLU	C-N-CA	9.15	129.73	119.93
1	4X	193	ASN	OD1-CG-ND2	-9.15	113.44	122.60
1	8o	50	GLN	O-C-N	-9.15	112.42	122.12
1	gm	162	ARG	N-CA-C	9.15	121.26	111.28
1	gF	154	ARG	NE-CZ-NH1	9.15	130.65	121.50
1	js	223	GLY	O-C-N	-9.15	112.62	121.77
1	4b	31	ALA	CB-CA-C	-9.15	106.01	116.54
1	7U	5	ASN	CA-CB-CG	-9.15	103.45	112.60
1	8t	5	ASN	CA-C-N	9.15	132.55	120.28
1	8t	5	ASN	C-N-CA	9.15	132.55	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8K	97	ARG	NE-CZ-NH2	9.15	127.44	119.20
1	b1	167	ARG	N-CA-C	9.15	121.03	111.14
1	8J	71	GLU	N-CA-C	9.15	121.26	111.28
1	bV	15	ILE	N-CA-C	9.15	121.29	109.30
1	cH	176	GLN	OE1-CD-NE2	-9.15	113.45	122.60
1	1s	141	ILE	N-CA-C	9.15	119.96	110.62
1	Q	90	PRO	CA-C-O	-9.15	111.34	121.32
1	5Q	47	ALA	CA-C-O	9.15	130.94	120.60
1	gh	36	VAL	CA-C-N	9.15	127.65	120.33
1	gh	36	VAL	C-N-CA	9.15	127.65	120.33
1	gB	206	GLY	O-C-N	-9.15	112.62	121.77
1	hK	143	ARG	NE-CZ-NH2	-9.15	110.96	119.20
1	hR	121	ASN	OD1-CG-ND2	-9.15	113.45	122.60
1	if	10	MET	N-CA-C	9.15	130.29	110.80
1	kh	204	ALA	N-CA-C	9.15	121.25	111.28
1	2w	139	ASN	N-CA-C	9.15	122.09	111.11
1	3W	210	THR	O-C-N	-9.15	112.69	123.03
1	d8	183	ASN	N-CA-C	9.15	122.23	111.71
1	60	154	ARG	NE-CZ-NH2	9.15	127.44	119.20
1	6G	197	ASP	CA-CB-CG	-9.15	103.45	112.60
1	9A	16	SER	O-C-N	-9.15	113.88	121.38
1	cQ	18	ARG	N-CA-C	9.15	122.09	111.11
1	fu	74	ASN	O-C-N	-9.15	112.42	122.12
1	3	98	GLU	CA-C-O	9.15	125.24	119.29
1	iK	37	ILE	O-C-N	-9.15	113.57	120.07
1	aJ	159	GLU	CA-C-N	9.15	131.28	119.84
1	aJ	159	GLU	C-N-CA	9.15	131.28	119.84
1	15	15	ILE	O-C-N	-9.15	112.14	122.66
1	dM	83	LEU	CA-C-O	9.15	129.75	119.41
1	fx	154	ARG	NE-CZ-NH1	9.15	130.65	121.50
1	g3	23	TRP	N-CA-C	9.15	122.09	111.11
1	1E	20	LEU	CA-C-N	9.15	132.33	120.44
1	1E	20	LEU	C-N-CA	9.15	132.33	120.44
1	hC	226	HIS	ND1-CE1-NE2	9.15	117.55	108.40
1	i2	165	VAL	CA-C-N	9.15	132.33	120.44
1	i2	165	VAL	C-N-CA	9.15	132.33	120.44
1	kJ	74	ASN	O-C-N	-9.15	112.65	122.07
1	5r	109	SER	CA-C-O	9.15	131.45	121.11
1	a3	158	LYS	N-CA-C	-9.15	101.67	112.92
1	ar	126	VAL	CA-C-N	9.15	130.09	119.94
1	ar	126	VAL	C-N-CA	9.15	130.09	119.94
1	9U	40	PHE	O-C-N	-9.15	112.58	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aQ	82	ARG	NE-CZ-NH2	-9.15	110.97	119.20
1	b4	188	THR	CA-C-N	9.15	132.54	120.28
1	b4	188	THR	C-N-CA	9.15	132.54	120.28
1	eU	93	PRO	CB-CA-C	9.15	122.96	110.98
1	P	161	PHE	N-CA-C	9.15	121.25	111.28
1	hA	118	MET	N-CA-C	9.14	122.23	111.71
1	hI	191	VAL	N-CA-C	9.14	119.20	110.42
1	eT	188	THR	CA-C-N	9.14	132.89	120.54
1	jw	55	MET	N-CA-C	9.14	120.85	111.07
1	jC	142	VAL	O-C-N	-9.14	112.41	121.83
1	kp	57	ASN	CA-CB-CG	9.14	121.74	112.60
1	kG	167	ARG	NE-CZ-NH2	9.14	127.43	119.20
1	eT	188	THR	C-N-CA	9.14	132.89	120.54
1	fE	166	ASP	CA-CB-CG	9.14	121.75	112.60
1	1A	188	THR	N-CA-C	9.14	122.39	111.33
1	kW	25	LYS	N-CA-C	9.14	120.85	111.07
1	4s	36	VAL	CA-C-N	9.14	127.64	120.33
1	4s	36	VAL	C-N-CA	9.14	127.64	120.33
1	dE	68	MET	N-CA-C	9.14	122.39	111.33
1	eX	4	GLN	OE1-CD-NE2	-9.14	113.46	122.60
1	1C	162	ARG	NE-CZ-NH2	-9.14	110.97	119.20
1	hH	62	HIS	CA-CB-CG	9.14	122.94	113.80
1	iW	138	LEU	CA-C-N	9.14	132.53	120.28
1	iW	138	LEU	C-N-CA	9.14	132.53	120.28
1	jZ	206	GLY	CA-C-N	9.14	130.16	120.83
1	jZ	206	GLY	C-N-CA	9.14	130.16	120.83
1	as	198	CYS	N-CA-C	9.14	121.32	111.36
1	jK	167	ARG	NE-CZ-NH1	9.14	130.64	121.50
1	kJ	223	GLY	CA-C-N	9.14	131.27	119.84
1	kJ	223	GLY	C-N-CA	9.14	131.27	119.84
1	kQ	205	LEU	N-CA-C	9.14	121.01	111.14
1	6R	23	TRP	N-CA-C	9.14	121.25	111.28
1	9t	79	GLU	N-CA-C	9.14	121.25	111.28
1	9C	2	ILE	N-CA-CB	9.14	120.97	110.82
1	lB	82	ARG	NE-CZ-NH1	9.14	130.64	121.50
1	7s	91	ILE	O-C-N	-9.14	113.58	123.18
1	aI	69	LEU	N-CA-C	9.14	122.08	111.11
1	1r	4	GLN	N-CA-C	9.14	122.78	110.35
1	fS	203	LYS	N-CA-C	9.14	121.24	111.28
1	h	70	LYS	N-CA-C	9.14	122.39	111.33
1	kV	188	THR	CA-C-O	9.14	126.17	119.68
1	3Y	133	TRP	N-CA-C	9.14	120.85	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f8	133	TRP	O-C-N	-9.14	111.73	122.15
1	7O	136	LEU	CA-C-N	9.14	129.90	119.94
1	7O	136	LEU	C-N-CA	9.14	129.90	119.94
1	8w	159	GLU	CA-C-N	9.14	129.21	119.89
1	8w	159	GLU	C-N-CA	9.14	129.21	119.89
1	9Y	21	ASN	CA-CB-CG	9.14	121.74	112.60
1	aP	173	ARG	NE-CZ-NH2	9.14	127.42	119.20
1	d6	139	ASN	CA-CB-CG	9.14	121.74	112.60
1	ds	162	ARG	NE-CZ-NH2	-9.14	110.98	119.20
1	fJ	163	ASP	CA-CB-CG	9.14	121.74	112.60
1	1J	75	GLU	N-CA-C	9.14	121.32	111.36
1	i8	22	ALA	N-CA-C	9.13	121.24	111.28
1	3m	162	ARG	N-CA-C	9.14	120.85	111.07
1	6C	230	VAL	CA-C-O	9.14	127.97	119.20
1	kk	65	ALA	N-CA-C	9.13	121.24	111.28
1	lL	23	TRP	N-CA-C	9.13	120.84	111.07
1	6D	126	VAL	N-CA-C	9.13	119.95	110.36
1	82	63	GLN	OE1-CD-NE2	-9.13	113.47	122.60
1	d2	120	HIS	CB-CG-CD2	-9.14	119.32	131.20
1	7	21	ASN	N-CA-C	9.13	120.84	111.07
1	gu	124	ILE	CA-C-O	9.13	126.19	119.25
1	hI	167	ARG	CA-C-N	9.13	132.31	120.44
1	hI	167	ARG	C-N-CA	9.13	132.31	120.44
1	jI	11	VAL	N-CA-C	9.13	121.24	106.72
1	lJ	184	TRP	N-CA-C	9.13	121.23	111.28
1	2j	12	HIS	CA-CB-CG	9.13	122.93	113.80
1	5q	162	ARG	NE-CZ-NH1	9.13	130.63	121.50
1	hc	164	TYR	N-CA-C	9.13	122.07	111.11
1	2x	152	ASP	CA-CB-CG	9.13	121.73	112.60
1	2S	126	VAL	CA-C-N	9.13	130.04	120.00
1	2S	126	VAL	C-N-CA	9.13	130.04	120.00
1	3C	8	GLY	CA-C-O	-9.13	115.93	122.23
1	3N	198	CYS	N-CA-C	-9.13	102.65	113.88
1	5P	28	GLU	N-CA-C	9.13	122.07	111.11
1	5Y	162	ARG	N-CA-C	9.13	122.38	111.33
1	7v	125	PRO	CA-C-N	9.13	132.07	120.56
1	7v	125	PRO	C-N-CA	9.13	132.07	120.56
1	97	36	VAL	CA-C-N	9.13	127.64	120.33
1	97	36	VAL	C-N-CA	9.13	127.64	120.33
1	bh	36	VAL	CA-C-N	9.13	127.64	120.33
1	bh	36	VAL	C-N-CA	9.13	127.64	120.33
1	bZ	213	GLU	N-CA-C	9.13	121.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eg	191	VAL	CA-C-O	9.13	130.45	120.95
1	f0	140	LYS	N-CA-C	9.13	121.23	111.28
1	q	62	HIS	CB-CG-CD2	-9.13	119.33	131.20
1	3Y	193	ASN	CA-CB-CG	-9.13	103.47	112.60
1	4z	159	GLU	N-CA-C	9.13	120.10	109.60
1	5G	50	GLN	O-C-N	-9.13	112.44	122.12
1	9w	62	HIS	CA-C-N	9.13	132.51	120.28
1	9w	62	HIS	C-N-CA	9.13	132.51	120.28
1	b3	121	ASN	CA-C-O	-9.13	110.79	119.55
1	1b	116	GLY	CA-C-N	9.13	133.25	120.29
1	1b	116	GLY	C-N-CA	9.13	133.25	120.29
1	cL	76	GLU	O-C-N	9.13	131.80	122.12
1	dd	164	TYR	N-CA-C	9.13	121.31	111.36
1	fe	90	PRO	CA-C-N	9.13	132.74	120.50
1	fe	90	PRO	C-N-CA	9.13	132.74	120.50
1	gi	37	ILE	CA-C-O	-9.13	112.57	118.69
1	c9	195	ASN	O-C-N	-9.13	111.90	121.30
1	j7	139	ASN	CA-CB-CG	9.13	121.73	112.60
1	lG	224	PRO	CA-C-N	9.13	128.77	120.10
1	lG	224	PRO	C-N-CA	9.13	128.77	120.10
1	3c	88	ALA	N-CA-C	9.13	123.47	110.23
1	dy	62	HIS	CA-CB-CG	9.13	122.93	113.80
1	3C	26	VAL	N-CA-C	9.13	119.18	110.42
1	49	144	MET	N-CA-C	9.13	122.21	111.71
1	eu	51	ASP	O-C-N	-9.13	112.45	122.12
1	eF	18	ARG	NH1-CZ-NH2	-9.13	107.43	119.30
1	f9	184	TRP	CA-C-N	9.13	132.31	120.44
1	f9	184	TRP	C-N-CA	9.13	132.31	120.44
1	ga	182	LYS	CA-C-N	9.13	132.30	120.44
1	ga	182	LYS	C-N-CA	9.13	132.30	120.44
1	hd	79	GLU	N-CA-C	9.13	122.37	111.33
1	hm	37	ILE	CA-C-O	-9.12	112.58	118.69
1	hu	154	ARG	NE-CZ-NH1	9.13	130.63	121.50
1	j0	67	GLN	N-CA-C	9.12	121.23	111.28
1	jk	179	GLN	CA-C-N	9.13	132.30	120.44
1	jk	179	GLN	C-N-CA	9.13	132.30	120.44
1	jp	96	MET	N-CA-C	9.13	123.13	110.35
1	7F	53	ASN	CA-CB-CG	-9.13	103.47	112.60
1	90	83	LEU	N-CA-C	9.13	121.23	111.28
1	ae	162	ARG	NE-CZ-NH2	-9.13	110.99	119.20
1	au	21	ASN	CA-CB-CG	-9.13	103.47	112.60
1	5a	154	ARG	CA-C-O	-9.12	110.77	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	195	ASN	CB-CA-C	9.12	123.96	109.27
1	6r	167	ARG	N-CA-C	9.12	121.23	111.28
1	9M	159	GLU	CA-C-O	-9.12	113.36	119.29
1	cA	190	LEU	CA-C-N	9.12	132.37	120.60
1	cA	190	LEU	C-N-CA	9.12	132.37	120.60
1	ei	146	SER	N-CA-C	9.12	126.12	113.16
1	eZ	166	ASP	O-C-N	-9.12	112.67	122.07
1	fA	172	LEU	CA-C-N	9.12	133.25	120.29
1	fA	172	LEU	C-N-CA	9.12	133.25	120.29
1	hk	100	ARG	NE-CZ-NH1	9.12	130.62	121.50
1	js	36	VAL	CA-C-N	9.12	125.99	120.24
1	js	36	VAL	C-N-CA	9.12	125.99	120.24
1	25	120	HIS	CA-CB-CG	9.12	122.92	113.80
1	2E	101	GLY	N-CA-C	9.12	123.08	112.50
1	2Z	19	THR	N-CA-C	9.12	120.83	111.07
1	5E	77	ALA	CA-C-N	9.12	132.30	120.44
1	5E	77	ALA	C-N-CA	9.12	132.30	120.44
1	3p	6	LEU	N-CA-CB	9.12	123.22	114.10
1	4O	192	GLN	OE1-CD-NE2	-9.12	113.48	122.60
1	9Z	36	VAL	CA-C-N	9.12	125.99	120.24
1	9Z	36	VAL	C-N-CA	9.12	125.99	120.24
1	bH	159	GLU	CA-C-N	9.12	129.20	119.90
1	bH	159	GLU	C-N-CA	9.12	129.20	119.90
1	d4	165	VAL	CA-C-N	9.12	132.86	120.54
1	d4	165	VAL	C-N-CA	9.12	132.86	120.54
1	d5	115	ILE	CA-C-N	9.12	130.11	119.98
1	d5	115	ILE	C-N-CA	9.12	130.11	119.98
1	c8	181	VAL	N-CA-C	9.12	119.18	110.42
1	dZ	103	ASP	CA-CB-CG	9.12	121.72	112.60
1	fZ	26	VAL	O-C-N	-9.12	112.66	121.87
1	jh	22	ALA	CA-C-N	9.12	132.50	120.28
1	jh	22	ALA	C-N-CA	9.12	132.50	120.28
1	lr	115	ILE	CB-CA-C	-9.12	100.09	112.04
1	4a	84	HIS	ND1-CE1-NE2	9.12	117.52	108.40
1	fP	54	THR	CA-C-O	9.12	130.22	120.55
1	hS	98	GLU	CA-C-O	-9.12	110.46	119.49
1	k9	47	ALA	CB-CA-C	-9.12	96.58	110.26
1	3J	124	ILE	CB-CA-C	9.12	121.53	110.95
1	3Z	188	THR	CA-C-N	9.12	133.69	120.38
1	3Z	188	THR	C-N-CA	9.12	133.69	120.38
1	5b	179	GLN	N-CA-C	9.12	122.36	111.33
1	8L	195	ASN	CA-CB-CG	-9.12	103.48	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	143	ARG	NE-CZ-NH2	9.12	127.41	119.20
1	dO	78	ALA	CA-C-N	9.12	132.50	120.28
1	dO	78	ALA	C-N-CA	9.12	132.50	120.28
1	fh	123	PRO	O-C-N	-9.12	112.89	123.10
1	i8	111	LEU	CA-C-N	9.12	132.50	120.28
1	i8	111	LEU	C-N-CA	9.12	132.50	120.28
1	4Y	12	HIS	CG-CD2-NE2	9.12	116.32	107.20
1	hb	62	HIS	CA-CB-CG	-9.11	104.69	113.80
1	ho	112	GLN	OE1-CD-NE2	9.11	131.71	122.60
1	hu	146	SER	CA-C-O	-9.12	109.80	118.73
1	2I	121	ASN	CA-C-O	-9.12	112.48	119.59
1	ig	38	PRO	CA-C-N	9.11	132.29	120.44
1	ig	38	PRO	C-N-CA	9.11	132.29	120.44
1	kX	136	LEU	O-C-N	-9.12	112.46	122.12
1	lK	162	ARG	NE-CZ-NH1	9.11	130.61	121.50
1	4R	100	ARG	NE-CZ-NH2	-9.11	111.00	119.20
1	4Y	75	GLU	CA-C-O	9.12	130.39	120.82
1	dK	144	MET	N-CA-C	9.12	121.22	111.28
1	1v	133	TRP	CA-C-N	9.11	132.36	120.60
1	1v	133	TRP	C-N-CA	9.11	132.36	120.60
1	fy	166	ASP	CA-C-N	9.12	132.84	120.44
1	fy	166	ASP	C-N-CA	9.12	132.84	120.44
1	jv	37	ILE	O-C-N	-9.11	114.59	120.42
1	5H	178	SER	N-CA-C	9.11	123.44	110.23
1	cR	82	ARG	CA-C-N	9.11	132.49	120.28
1	b	61	GLY	O-C-N	-9.11	114.97	122.81
1	gF	132	ARG	CA-C-N	9.11	132.83	120.44
1	gF	132	ARG	C-N-CA	9.11	132.83	120.44
1	gV	200	THR	N-CA-CB	9.11	123.22	110.01
1	1R	80	TRP	CA-C-O	9.11	130.39	120.82
1	1Z	82	ARG	NE-CZ-NH2	-9.11	111.00	119.20
1	2i	226	HIS	CA-CB-CG	9.11	122.91	113.80
1	2r	214	MET	N-CA-C	9.11	121.21	111.28
1	cR	82	ARG	C-N-CA	9.11	132.49	120.28
1	3m	86	VAL	CA-C-N	9.11	135.10	122.07
1	3m	86	VAL	C-N-CA	9.11	135.10	122.07
1	6T	120	HIS	CA-CB-CG	9.11	122.91	113.80
1	77	53	ASN	CA-CB-CG	-9.11	103.49	112.60
1	8y	37	ILE	N-CA-CB	9.11	116.24	110.50
1	b8	134	ILE	O-C-N	-9.11	112.44	121.83
1	dO	226	HIS	CE1-NE2-CD2	-9.11	99.89	109.00
1	f3	167	ARG	CA-C-N	9.11	132.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f3	167	ARG	C-N-CA	9.11	132.28	120.44
1	gs	28	GLU	N-CA-C	9.11	121.21	111.28
1	gF	9	GLN	CA-C-N	9.11	135.03	122.19
1	gF	9	GLN	C-N-CA	9.11	135.03	122.19
1	1F	53	ASN	CA-CB-CG	-9.11	103.49	112.60
1	h4	186	THR	CA-CB-OG1	9.11	123.26	109.60
1	j1	74	ASN	CA-CB-CG	-9.11	103.49	112.60
1	ju	118	MET	N-CA-C	9.11	121.21	111.28
1	kV	100	ARG	NE-CZ-NH1	9.11	130.61	121.50
1	l5	190	LEU	N-CA-C	9.11	121.21	111.28
1	6z	98	GLU	O-C-N	-9.11	113.19	121.30
1	9y	2	ILE	CA-C-O	9.11	127.61	118.96
1	a0	177	ALA	N-CA-C	9.11	122.08	110.24
1	cs	56	LEU	CA-C-N	9.11	133.22	120.29
1	cs	56	LEU	C-N-CA	9.11	133.22	120.29
1	dB	36	VAL	CA-C-N	9.11	125.98	120.24
1	dB	36	VAL	C-N-CA	9.11	125.98	120.24
1	g	100	ARG	O-C-N	-9.11	112.11	122.86
1	gC	100	ARG	NE-CZ-NH2	-9.11	111.01	119.20
1	iX	154	ARG	NE-CZ-NH1	9.11	130.61	121.50
1	jc	182	LYS	N-CA-C	9.11	121.20	111.28
1	20	7	GLN	N-CA-C	9.11	123.72	110.42
1	5L	143	ARG	N-CA-C	9.11	121.21	111.28
1	5y	77	ALA	O-C-N	-9.11	111.77	122.15
1	8t	27	VAL	CA-C-O	9.11	130.42	120.95
1	9r	220	GLY	CA-C-O	9.11	129.02	119.10
1	aI	162	ARG	NE-CZ-NH2	9.11	127.39	119.20
1	c9	19	THR	CA-C-O	-9.11	111.26	120.82
1	1f	55	MET	CA-C-O	9.11	130.20	120.55
1	d8	5	ASN	OD1-CG-ND2	-9.11	113.49	122.60
1	g5	182	LYS	CA-C-N	9.11	132.67	120.65
1	g5	182	LYS	C-N-CA	9.11	132.67	120.65
1	dy	73	ILE	O-C-N	-9.11	112.45	121.83
1	l	143	ARG	NE-CZ-NH1	9.11	130.60	121.50
1	z	213	GLU	N-CA-C	9.11	121.21	111.28
1	hF	189	LEU	N-CA-C	9.10	121.28	111.36
1	ju	57	ASN	CA-C-N	9.10	132.48	120.28
1	ju	57	ASN	C-N-CA	9.10	132.48	120.28
1	3o	36	VAL	CA-C-N	9.10	125.97	120.24
1	3o	36	VAL	C-N-CA	9.10	125.97	120.24
1	4m	177	ALA	CA-C-N	9.10	134.87	121.31
1	4m	177	ALA	C-N-CA	9.10	134.87	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	37	ILE	O-C-N	-9.10	114.59	120.42
1	gL	139	ASN	O-C-N	-9.10	112.69	122.07
1	gN	117	TRP	N-CA-C	9.10	121.20	111.28
1	iT	133	TRP	O-C-N	-9.10	112.47	122.12
1	iw	35	GLU	O-C-N	-9.10	110.33	122.43
1	ld	218	CYS	CA-C-N	9.10	134.20	120.82
1	ld	218	CYS	C-N-CA	9.10	134.20	120.82
1	2C	27	VAL	O-C-N	9.10	130.70	121.87
1	5Q	130	TYR	CA-C-N	9.10	132.48	120.28
1	5Q	130	TYR	C-N-CA	9.10	132.48	120.28
1	6K	206	GLY	CA-C-N	9.10	129.04	120.03
1	6K	206	GLY	C-N-CA	9.10	129.04	120.03
1	Z	203	LYS	CA-C-N	9.10	132.48	120.28
1	Z	203	LYS	C-N-CA	9.10	132.48	120.28
1	7o	165	VAL	N-CA-C	9.10	119.90	110.62
1	8E	137	GLY	O-C-N	-9.10	111.87	122.34
1	1c	195	ASN	CA-C-O	-9.10	111.26	120.64
1	eo	191	VAL	CA-C-N	9.10	132.48	120.28
1	eo	191	VAL	C-N-CA	9.10	132.48	120.28
1	cn	211	LEU	N-CA-C	9.10	120.81	111.07
1	n	84	HIS	O-C-N	-9.10	117.34	121.53
1	gQ	161	PHE	CA-C-N	9.10	132.47	120.28
1	gQ	161	PHE	C-N-CA	9.10	132.47	120.28
1	j3	58	THR	N-CA-CB	9.10	125.16	110.42
1	lu	172	LEU	N-CA-C	9.10	121.20	111.28
1	em	37	ILE	N-CA-CB	9.10	116.23	110.50
1	f0	37	ILE	O-C-N	-9.10	113.61	120.07
1	jj	8	GLY	CA-C-O	-9.10	113.85	121.04
1	kl	51	ASP	O-C-N	9.10	131.76	122.12
1	kI	32	PHE	CA-CB-CG	-9.10	104.70	113.80
1	76	62	HIS	CA-CB-CG	9.10	122.90	113.80
1	2e	131	LYS	CA-C-O	9.10	130.37	120.82
1	4L	162	ARG	N-CA-C	9.10	123.40	111.75
1	9H	115	ILE	CA-C-N	9.10	130.27	119.99
1	9H	115	ILE	C-N-CA	9.10	130.27	119.99
1	bm	190	LEU	CA-C-N	9.10	132.02	120.56
1	bm	190	LEU	C-N-CA	9.10	132.02	120.56
1	d4	26	VAL	O-C-N	-9.10	113.04	121.87
1	5	158	LYS	N-CA-CB	9.10	123.95	110.49
1	jy	100	ARG	NE-CZ-NH2	9.10	127.39	119.20
1	ht	216	THR	CA-C-O	9.10	130.06	120.42
1	hA	4	GLN	N-CA-CB	9.10	125.86	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	100	ARG	NE-CZ-NH2	-9.10	111.01	119.20
1	iu	5	ASN	OD1-CG-ND2	-9.10	113.50	122.60
1	iw	226	HIS	CE1-NE2-CD2	-9.10	99.90	109.00
1	k0	19	THR	O-C-N	-9.10	112.48	122.12
1	2B	93	PRO	CA-C-O	-9.10	111.40	121.32
1	4f	106	GLY	CA-C-O	9.10	129.00	119.27
1	jk	179	GLN	O-C-N	-9.10	112.48	122.12
1	5U	179	GLN	CA-C-N	9.10	132.82	120.54
1	5U	179	GLN	C-N-CA	9.10	132.82	120.54
1	cD	100	ARG	NE-CZ-NH1	9.10	130.60	121.50
1	br	194	ALA	O-C-N	-9.10	112.13	122.86
1	d0	62	HIS	CA-CB-CG	9.10	122.89	113.80
1	er	57	ASN	OD1-CG-ND2	-9.10	113.50	122.60
1	fE	83	LEU	CA-C-O	9.10	130.43	119.97
1	2h	55	MET	O-C-N	-9.09	112.48	122.12
1	73	113	GLU	O-C-N	-9.09	111.78	122.15
1	e5	174	ALA	N-CA-C	9.09	121.19	111.28
1	he	67	GLN	CA-C-O	9.09	130.19	120.55
1	iK	159	GLU	CB-CA-C	9.09	120.20	109.47
1	lP	21	ASN	CA-CB-CG	9.09	121.69	112.60
1	2Y	146	SER	CA-C-O	-9.09	109.52	118.34
1	40	142	VAL	N-CA-C	9.09	119.89	110.62
1	7Y	89	GLY	CA-C-N	9.09	129.17	119.90
1	7Y	89	GLY	C-N-CA	9.09	129.17	119.90
1	g0	74	ASN	OD1-CG-ND2	-9.09	113.51	122.60
1	h	204	ALA	CA-C-O	9.09	130.52	119.79
1	jo	102	SER	CA-C-O	9.09	130.58	119.31
1	lG	136	LEU	CA-C-N	9.09	130.03	119.94
1	lG	136	LEU	C-N-CA	9.09	130.03	119.94
1	lL	92	GLU	CA-C-N	9.09	129.16	119.89
1	lL	92	GLU	C-N-CA	9.09	129.16	119.89
1	lQ	167	ARG	NE-CZ-NH2	-9.09	111.02	119.20
1	2y	166	ASP	CA-CB-CG	9.09	121.69	112.60
1	18	85	PRO	CA-C-O	-9.09	111.09	121.36
1	du	142	VAL	N-CA-C	9.09	119.89	110.62
1	jh	154	ARG	NH1-CZ-NH2	-9.09	107.49	119.30
1	jk	14	ALA	CA-C-N	9.09	132.72	120.63
1	jk	14	ALA	C-N-CA	9.09	132.72	120.63
1	la	161	PHE	N-CA-C	9.09	122.33	111.33
1	6c	185	MET	N-CA-C	9.09	120.80	111.07
1	8v	74	ASN	CA-CB-CG	-9.09	103.51	112.60
1	9g	229	ARG	NE-CZ-NH1	9.09	130.59	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ae	57	ASN	CA-C-O	9.09	130.58	119.31
1	bH	179	GLN	OE1-CD-NE2	-9.09	113.51	122.60
1	cz	197	ASP	CA-CB-CG	-9.09	103.51	112.60
1	cE	148	THR	O-C-N	-9.09	112.89	123.25
1	7	178	SER	N-CA-C	9.09	123.07	110.35
1	gX	29	GLU	N-CA-C	9.09	122.32	111.33
1	kB	165	VAL	N-CA-C	9.09	119.14	110.42
1	3R	132	ARG	NE-CZ-NH1	9.09	130.59	121.50
1	8R	229	ARG	NE-CZ-NH1	9.09	130.59	121.50
1	aU	162	ARG	NE-CZ-NH1	9.09	130.59	121.50
1	d3	143	ARG	N-CA-C	9.09	122.01	111.11
1	dg	217	ALA	CA-C-N	9.09	134.97	122.34
1	dg	217	ALA	C-N-CA	9.09	134.97	122.34
1	ea	229	ARG	NH1-CZ-NH2	-9.09	107.49	119.30
1	fd	230	VAL	N-CA-C	9.09	123.48	109.12
1	iz	165	VAL	N-CA-C	9.08	119.89	110.62
1	4Q	152	ASP	CA-CB-CG	-9.08	103.52	112.60
1	gM	57	ASN	OD1-CG-ND2	-9.08	113.52	122.60
1	iN	226	HIS	ND1-CE1-NE2	9.08	117.48	108.40
1	lf	42	ALA	N-CA-C	9.08	121.26	111.36
1	3C	74	ASN	N-CA-C	9.08	121.18	111.28
1	9p	187	GLU	N-CA-C	9.08	123.62	112.54
1	6w	118	MET	O-C-N	-9.08	111.59	122.22
1	9t	217	ALA	N-CA-C	9.08	123.72	110.28
1	9H	85	PRO	O-C-N	-9.08	116.28	122.73
1	c5	152	ASP	CA-CB-CG	9.08	121.68	112.60
1	fa	31	ALA	N-CA-C	9.08	122.11	108.31
1	fq	181	VAL	N-CA-C	9.08	119.90	110.36
1	c	210	THR	CA-C-N	9.08	132.82	120.38
1	c	210	THR	C-N-CA	9.08	132.82	120.38
1	x	181	VAL	N-CA-C	9.08	119.89	110.72
1	B	7	GLN	OE1-CD-NE2	-9.08	113.52	122.60
1	l3	133	TRP	N-CA-C	9.08	121.18	111.28
1	8k	55	MET	CG-SD-CE	-9.08	80.92	100.90
1	i1	37	ILE	CB-CA-C	9.08	122.33	113.70
1	i6	37	ILE	N-CA-CB	9.08	117.53	110.45
1	iy	33	SER	O-C-N	-9.08	114.75	121.83
1	lI	63	GLN	OE1-CD-NE2	9.08	131.68	122.60
1	2G	66	MET	CA-C-O	-9.08	110.93	120.55
1	2M	18	ARG	NE-CZ-NH1	9.08	130.58	121.50
1	3c	13	GLN	CA-C-N	9.08	134.84	121.31
1	3c	13	GLN	C-N-CA	9.08	134.84	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cR	226	HIS	CA-C-O	9.08	130.11	119.67
1	5e	103	ASP	N-CA-C	9.08	121.18	111.28
1	du	117	TRP	N-CA-C	9.08	120.78	111.07
1	eb	50	GLN	O-C-N	-9.08	112.50	122.12
1	h0	32	PHE	CA-CB-CG	-9.08	104.72	113.80
1	gD	59	VAL	CA-C-N	9.08	129.98	120.00
1	gD	59	VAL	C-N-CA	9.08	129.98	120.00
1	h3	195	ASN	CA-C-O	-9.08	110.43	120.69
1	h4	163	ASP	CA-CB-CG	-9.08	103.52	112.60
1	1T	135	ILE	N-CA-C	9.08	119.88	110.62
1	j3	37	ILE	O-C-N	-9.08	114.61	120.42
1	jL	166	ASP	CA-CB-CG	9.08	121.68	112.60
1	kz	226	HIS	CB-CG-CD2	9.08	143.00	131.20
1	3L	165	VAL	N-CA-C	9.08	119.88	110.62
1	ee	70	LYS	N-CA-C	9.08	120.78	111.07
1	8x	211	LEU	CA-C-N	9.08	132.44	120.28
1	8x	211	LEU	C-N-CA	9.08	132.44	120.28
1	bk	12	HIS	CE1-NE2-CD2	-9.08	99.92	109.00
1	c3	226	HIS	CE1-NE2-CD2	-9.08	99.92	109.00
1	e8	37	ILE	N-CA-CB	9.08	117.53	110.45
1	g1	211	LEU	CA-C-N	9.08	132.81	120.38
1	g1	211	LEU	C-N-CA	9.08	132.81	120.38
1	z	21	ASN	OD1-CG-ND2	-9.08	113.52	122.60
1	dw	146	SER	N-CA-C	9.07	126.05	113.16
1	fn	199	LYS	N-CA-C	9.07	120.78	111.07
1	gi	187	GLU	N-CA-C	9.07	121.17	111.28
1	hp	60	GLY	CA-C-N	9.07	128.96	120.34
1	hp	60	GLY	C-N-CA	9.07	128.96	120.34
1	lx	219	GLN	OE1-CD-NE2	-9.07	113.53	122.60
1	3j	166	ASP	N-CA-C	9.07	121.17	111.28
1	cn	100	ARG	NE-CZ-NH1	9.07	130.57	121.50
1	d2	19	THR	CA-C-N	9.07	132.24	120.44
1	d2	19	THR	C-N-CA	9.07	132.24	120.44
1	eN	33	SER	N-CA-C	-9.07	99.96	108.13
1	fC	132	ARG	NE-CZ-NH1	9.07	130.57	121.50
1	T	140	LYS	N-CA-C	9.07	122.31	111.33
1	gP	75	GLU	N-CA-C	9.07	120.78	111.07
1	hJ	118	MET	N-CA-C	9.07	122.00	111.11
1	ki	32	PHE	CA-CB-CG	-9.07	104.73	113.80
1	2a	53	ASN	CA-CB-CG	-9.07	103.53	112.60
1	2g	24	VAL	N-CA-C	9.07	119.87	110.62
1	7V	223	GLY	CA-C-N	9.07	131.18	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7V	223	GLY	C-N-CA	9.07	131.18	119.84
1	a1	141	ILE	N-CA-C	9.07	119.87	110.62
1	ch	97	ARG	NE-CZ-NH2	-9.07	111.03	119.20
1	dB	62	HIS	N-CA-C	9.07	122.36	111.02
1	jT	222	GLY	CA-C-N	9.07	136.11	121.87
1	jT	222	GLY	C-N-CA	9.07	136.11	121.87
1	ku	219	GLN	CA-C-O	9.07	129.85	120.24
1	6e	25	LYS	N-CA-C	9.07	122.00	111.11
1	lc	115	ILE	CA-C-N	9.07	130.05	119.98
1	lc	115	ILE	C-N-CA	9.07	130.05	119.98
1	3M	124	ILE	N-CA-C	-9.07	97.61	107.77
1	42	28	GLU	N-CA-C	9.07	122.84	111.69
1	5o	132	ARG	NE-CZ-NH1	9.07	130.57	121.50
1	65	195	ASN	CA-CB-CG	9.07	121.67	112.60
1	6y	125	PRO	N-CA-CB	-9.07	95.28	102.36
1	ew	176	GLN	OE1-CD-NE2	-9.07	113.53	122.60
1	f7	80	TRP	CB-CG-CD2	9.07	139.50	126.80
1	fj	206	GLY	O-C-N	-9.07	112.70	121.77
1	8	107	THR	N-CA-C	9.07	122.34	111.82
1	ig	170	LYS	CA-C-O	9.07	130.34	120.82
1	1s	200	THR	CA-C-N	9.07	132.88	120.46
1	1s	200	THR	C-N-CA	9.07	132.88	120.46
1	je	190	LEU	CA-C-N	9.07	131.78	120.72
1	je	190	LEU	C-N-CA	9.07	131.78	120.72
1	jf	18	ARG	NH1-CZ-NH2	-9.07	107.51	119.30
1	4P	25	LYS	N-CA-C	9.07	122.34	111.82
1	6t	229	ARG	NE-CZ-NH2	-9.07	111.04	119.20
1	6D	102	SER	N-CA-C	9.07	120.77	111.07
1	1q	74	ASN	CA-CB-CG	-9.07	103.53	112.60
1	7w	97	ARG	NH1-CZ-NH2	-9.07	107.52	119.30
1	7S	154	ARG	NH1-CZ-NH2	-9.07	107.51	119.30
1	86	48	THR	CA-C-O	-9.07	110.73	120.88
1	8m	195	ASN	CA-C-O	-9.07	110.98	120.23
1	eT	125	PRO	CA-C-N	9.07	132.88	120.46
1	eT	125	PRO	C-N-CA	9.07	132.88	120.46
1	ao	144	MET	CA-C-N	9.07	132.43	120.28
1	ao	144	MET	C-N-CA	9.07	132.43	120.28
1	d4	156	GLY	O-C-N	-9.07	112.70	121.77
1	eb	150	ILE	CA-C-N	9.07	132.80	120.38
1	eb	150	ILE	C-N-CA	9.07	132.80	120.38
1	eC	146	SER	CB-CA-C	-9.07	99.52	109.85
1	fo	59	VAL	N-CA-C	9.07	119.66	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gb	183	ASN	CA-C-N	9.06	133.16	120.29
1	gb	183	ASN	C-N-CA	9.06	133.16	120.29
1	jV	65	ALA	CA-C-N	9.06	132.78	120.54
1	jV	65	ALA	C-N-CA	9.06	132.78	120.54
1	46	15	ILE	N-CA-CB	9.06	120.60	110.72
1	5z	195	ASN	CA-CB-CG	9.06	121.67	112.60
1	5Q	120	HIS	CE1-NE2-CD2	-9.06	99.94	109.00
1	lt	188	THR	CA-C-N	9.06	132.43	120.28
1	lt	188	THR	C-N-CA	9.06	132.43	120.28
1	br	92	GLU	O-C-N	-9.06	112.08	120.51
1	e8	217	ALA	N-CA-C	9.06	122.02	110.24
1	f0	11	VAL	O-C-N	-9.06	113.89	123.14
1	1w	210	THR	CA-C-N	9.06	133.61	120.38
1	1w	210	THR	C-N-CA	9.06	133.61	120.38
1	ge	101	GLY	CA-C-N	9.06	132.42	120.28
1	ge	101	GLY	C-N-CA	9.06	132.42	120.28
1	iS	167	ARG	N-CA-C	9.06	121.16	111.28
1	aw	167	ARG	CA-C-N	9.06	132.77	120.54
1	aw	167	ARG	C-N-CA	9.06	132.77	120.54
1	bb	143	ARG	N-CA-C	9.06	121.16	111.28
1	g6	181	VAL	N-CA-C	9.06	119.86	110.62
1	4f	37	ILE	N-CA-CB	9.06	117.52	110.45
1	jD	22	ALA	CA-C-N	9.06	132.42	120.28
1	jD	22	ALA	C-N-CA	9.06	132.42	120.28
1	1Y	195	ASN	CB-CA-C	9.06	123.83	109.52
1	l3	115	ILE	CA-C-N	9.06	129.99	119.94
1	l3	115	ILE	C-N-CA	9.06	129.99	119.94
1	8o	111	LEU	O-C-N	-9.06	112.52	122.12
1	eB	105	ALA	CA-C-N	9.06	133.79	120.11
1	2S	98	GLU	CA-C-O	9.06	128.75	120.60
1	39	134	ILE	N-CA-C	9.06	119.12	110.42
1	eB	105	ALA	C-N-CA	9.06	133.79	120.11
1	3V	29	GLU	N-CA-C	9.06	121.15	111.28
1	7u	74	ASN	OD1-CG-ND2	-9.06	113.54	122.60
1	7F	132	ARG	N-CA-C	9.06	121.23	111.36
1	Y	24	VAL	O-C-N	-9.06	113.08	121.87
1	eF	47	ALA	N-CA-C	9.06	123.55	109.96
1	1x	16	SER	CA-C-O	-9.06	112.62	119.32
1	fR	47	ALA	N-CA-C	9.06	123.27	110.50
1	d	191	VAL	O-C-N	-9.06	113.08	121.87
1	hK	142	VAL	CA-C-N	9.06	132.21	120.44
1	hK	142	VAL	C-N-CA	9.06	132.21	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	177	ALA	N-CA-C	9.05	123.01	110.24
1	3p	218	CYS	N-CA-C	9.05	121.23	111.36
1	5X	131	LYS	N-CA-C	9.06	121.15	111.28
1	7R	186	THR	N-CA-CB	9.05	123.56	110.16
1	8C	85	PRO	CA-C-N	9.06	132.94	120.35
1	8C	85	PRO	C-N-CA	9.06	132.94	120.35
1	ao	210	THR	CA-C-N	9.06	132.79	120.38
1	ao	210	THR	C-N-CA	9.06	132.79	120.38
1	fy	181	VAL	CA-C-N	9.05	132.75	120.44
1	fy	181	VAL	C-N-CA	9.05	132.75	120.44
1	u	173	ARG	NE-CZ-NH2	-9.05	111.05	119.20
1	jn	193	ASN	CA-CB-CG	-9.05	103.55	112.60
1	27	126	VAL	CA-C-N	9.05	129.99	119.94
1	27	126	VAL	C-N-CA	9.05	129.99	119.94
1	71	173	ARG	NE-CZ-NH2	-9.05	111.05	119.20
1	7V	97	ARG	NE-CZ-NH1	9.05	130.55	121.50
1	aw	3	VAL	N-CA-CB	-9.05	102.25	112.21
1	aG	37	ILE	N-CA-CB	9.05	116.20	110.50
1	dl	154	ARG	NE-CZ-NH2	-9.05	111.05	119.20
1	dF	22	ALA	CA-C-N	9.05	132.21	120.44
1	dF	22	ALA	C-N-CA	9.05	132.21	120.44
1	f3	195	ASN	N-CA-C	9.05	122.43	109.84
1	g8	36	VAL	CA-C-N	9.05	129.12	120.43
1	g8	36	VAL	C-N-CA	9.05	129.12	120.43
1	gY	176	GLN	O-C-N	-9.05	111.48	122.34
1	i9	153	ILE	N-CA-C	9.05	120.84	108.89
1	it	57	ASN	N-CA-C	9.05	122.32	111.82
1	iU	226	HIS	CE1-NE2-CD2	-9.05	99.95	109.00
1	5e	175	GLU	CB-CA-C	9.05	124.75	109.72
1	5A	202	LEU	CA-C-N	9.05	132.41	120.28
1	5A	202	LEU	C-N-CA	9.05	132.41	120.28
1	8e	37	ILE	CB-CA-C	-9.05	104.75	114.35
1	9o	195	ASN	CA-C-N	9.05	131.16	119.84
1	9o	195	ASN	C-N-CA	9.05	131.16	119.84
1	aX	36	VAL	N-CA-C	9.05	119.86	110.72
1	bI	155	GLN	OE1-CD-NE2	-9.05	113.55	122.60
1	fq	142	VAL	N-CA-C	9.05	119.85	110.62
1	b1	126	VAL	CA-C-N	9.05	129.99	119.94
1	b1	126	VAL	C-N-CA	9.05	129.99	119.94
1	cP	224	PRO	CA-C-N	9.05	130.17	120.03
1	cP	224	PRO	C-N-CA	9.05	130.17	120.03
1	dB	42	ALA	N-CA-C	9.05	121.15	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	132	ARG	NH1-CZ-NH2	-9.05	107.53	119.30
1	fK	213	GLU	N-CA-C	9.05	120.76	111.07
1	1z	102	SER	N-CA-C	9.05	122.32	111.82
1	gd	229	ARG	NE-CZ-NH1	9.05	130.55	121.50
1	4r	84	HIS	CA-CB-CG	9.05	122.85	113.80
1	9z	139	ASN	CA-CB-CG	9.05	121.65	112.60
1	1M	12	HIS	CA-CB-CG	9.05	122.85	113.80
1	lr	65	ALA	O-C-N	-9.05	112.40	122.08
1	4s	71	GLU	CA-C-N	9.05	132.75	120.54
1	4s	71	GLU	C-N-CA	9.05	132.75	120.54
1	4M	81	ASP	CA-C-O	9.05	130.32	120.82
1	8M	40	PHE	CA-CB-CG	-9.05	104.75	113.80
1	95	203	LYS	CA-C-N	9.05	132.20	120.44
1	95	203	LYS	C-N-CA	9.05	132.20	120.44
1	9b	132	ARG	N-CA-C	9.05	121.14	111.28
1	9j	67	GLN	OE1-CD-NE2	-9.05	113.55	122.60
1	9E	139	ASN	CA-CB-CG	9.05	121.65	112.60
1	12	117	TRP	N-CA-C	9.05	121.97	111.11
1	cG	142	VAL	N-CA-C	9.05	119.86	110.36
1	b7	28	GLU	N-CA-C	9.05	120.75	111.07
1	cL	72	THR	N-CA-CB	9.05	123.13	110.01
1	js	75	GLU	CA-C-N	9.05	132.20	120.44
1	js	75	GLU	C-N-CA	9.05	132.20	120.44
1	3u	207	PRO	N-CA-CB	-9.05	93.75	103.25
1	bD	173	ARG	NE-CZ-NH1	9.05	130.55	121.50
1	iR	221	VAL	O-C-N	-9.04	112.75	122.61
1	kI	82	ARG	CA-C-O	9.04	130.50	119.38
1	4j	141	ILE	N-CA-C	9.04	119.10	110.42
1	dG	84	HIS	CG-CD2-NE2	9.04	116.25	107.20
1	j3	24	VAL	CA-C-N	9.04	132.40	120.28
1	j3	24	VAL	C-N-CA	9.04	132.40	120.28
1	k2	23	TRP	CB-CG-CD2	9.04	139.46	126.80
1	5x	18	ARG	NH1-CZ-NH2	-9.04	107.54	119.30
1	ja	168	PHE	CA-C-O	-9.04	111.33	120.82
1	li	195	ASN	CA-CB-CG	9.04	121.64	112.60
1	2n	100	ARG	NE-CZ-NH1	9.04	130.54	121.50
1	2V	68	MET	CA-C-O	-9.04	111.23	120.90
1	32	191	VAL	N-CA-C	9.04	119.10	110.42
1	40	181	VAL	CA-C-N	9.04	132.40	120.28
1	40	181	VAL	C-N-CA	9.04	132.40	120.28
1	9W	51	ASP	N-CA-C	9.04	120.74	111.07
1	b3	197	ASP	O-C-N	-9.04	111.84	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cC	230	VAL	CB-CA-C	-9.04	101.64	111.59
1	d	18	ARG	CA-C-N	9.04	132.19	120.44
1	d	18	ARG	C-N-CA	9.04	132.19	120.44
1	h2	182	LYS	CA-C-N	9.04	132.19	120.44
1	h2	182	LYS	C-N-CA	9.04	132.19	120.44
1	hC	21	ASN	N-CA-C	9.04	122.27	111.33
1	j6	120	HIS	CA-CB-CG	9.04	122.84	113.80
1	kH	180	GLU	CA-C-N	9.04	131.95	120.56
1	kH	180	GLU	C-N-CA	9.04	131.95	120.56
1	35	103	ASP	CA-C-N	9.04	132.84	120.46
1	35	103	ASP	C-N-CA	9.04	132.84	120.46
1	S	112	GLN	O-C-N	-9.04	112.54	122.12
1	iF	59	VAL	CA-C-N	9.04	129.79	119.94
1	iF	59	VAL	C-N-CA	9.04	129.79	119.94
1	jo	177	ALA	N-CA-C	9.04	122.64	110.35
1	2h	80	TRP	CD2-CE2-CZ2	-9.04	113.36	122.40
1	8P	93	PRO	CA-C-N	9.04	132.09	122.69
1	8P	93	PRO	C-N-CA	9.04	132.09	122.69
1	b2	149	SER	CA-C-N	9.04	132.84	120.46
1	b2	149	SER	C-N-CA	9.04	132.84	120.46
1	eS	42	ALA	N-CA-C	9.04	120.74	111.07
1	4O	14	ALA	N-CA-C	9.04	122.64	110.35
1	7u	2	ILE	CA-C-O	9.04	130.24	120.57
1	ae	156	GLY	CA-C-N	9.04	129.08	119.05
1	ae	156	GLY	C-N-CA	9.04	129.08	119.05
1	aX	8	GLY	O-C-N	-9.04	114.70	122.92
1	1p	32	PHE	CA-CB-CG	-9.04	104.76	113.80
1	fn	146	SER	N-CA-C	9.04	119.99	109.60
1	gC	142	VAL	O-C-N	-9.04	112.52	121.83
1	ji	103	ASP	CA-CB-CG	-9.04	103.56	112.60
1	jr	187	GLU	N-CA-C	9.04	120.74	111.07
1	ko	162	ARG	N-CA-C	9.04	121.13	111.28
1	4x	50	GLN	N-CA-C	9.04	120.74	111.07
1	4N	54	THR	O-C-N	-9.04	112.54	122.12
1	7r	164	TYR	N-CA-C	9.04	120.74	111.07
1	4T	16	SER	CA-C-O	-9.03	112.50	119.46
1	68	156	GLY	CA-C-N	9.04	128.77	119.19
1	68	156	GLY	C-N-CA	9.04	128.77	119.19
1	9t	22	ALA	O-C-N	-9.04	112.69	122.09
1	fI	107	THR	N-CA-C	9.04	120.90	111.14
1	af	136	LEU	CA-C-N	9.03	129.79	119.94
1	af	136	LEU	C-N-CA	9.03	129.79	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	105	ALA	N-CA-C	9.04	122.10	111.71
1	bV	176	GLN	N-CA-C	9.03	123.94	111.74
1	hm	195	ASN	N-CA-C	9.03	122.40	109.84
1	2F	128	GLU	CA-C-N	9.03	131.94	120.56
1	2F	128	GLU	C-N-CA	9.03	131.94	120.56
1	2H	86	VAL	O-C-N	-9.03	113.46	122.67
1	9k	121	ASN	CA-C-O	-9.03	110.88	119.55
1	Y	126	VAL	O-C-N	-9.03	112.91	121.94
1	em	219	GLN	O-C-N	-9.03	112.74	123.13
1	1E	18	ARG	NE-CZ-NH1	9.03	130.53	121.50
1	2O	23	TRP	CB-CG-CD2	9.03	139.44	126.80
1	5I	112	GLN	CA-C-O	-9.03	111.34	120.82
1	6H	67	GLN	OE1-CD-NE2	-9.03	113.57	122.60
1	er	184	TRP	N-CA-C	9.03	121.12	111.28
1	1w	132	ARG	NE-CZ-NH2	9.03	127.33	119.20
1	fT	209	ALA	N-CA-C	9.03	123.52	110.24
1	fW	25	LYS	CA-C-O	9.03	130.12	120.55
1	3I	100	ARG	CA-C-N	9.03	130.00	119.98
1	3I	100	ARG	C-N-CA	9.03	130.00	119.98
1	3S	37	ILE	O-C-N	-9.03	113.66	120.07
1	4u	197	ASP	CA-CB-CG	-9.03	103.57	112.60
1	61	50	GLN	N-CA-C	9.03	121.12	111.28
1	7C	39	MET	CA-C-N	9.03	132.73	120.54
1	7C	39	MET	C-N-CA	9.03	132.73	120.54
1	cc	227	LYS	N-CA-C	9.03	123.64	110.28
1	4M	176	GLN	OE1-CD-NE2	-9.03	113.57	122.60
1	8b	10	MET	N-CA-C	9.03	122.63	110.35
1	9z	130	TYR	CA-C-N	9.03	132.38	120.28
1	9z	130	TYR	C-N-CA	9.03	132.38	120.28
1	1i	183	ASN	OD1-CG-ND2	-9.03	113.57	122.60
1	9J	90	PRO	CA-C-N	9.03	133.24	120.42
1	9J	90	PRO	C-N-CA	9.03	133.24	120.42
1	9J	220	GLY	CA-C-N	9.03	133.24	120.42
1	9J	220	GLY	C-N-CA	9.03	133.24	120.42
1	a8	74	ASN	CA-CB-CG	9.03	121.63	112.60
1	ba	229	ARG	O-C-N	-9.03	112.77	122.07
1	f0	59	VAL	N-CA-C	9.03	120.91	110.62
1	1A	68	MET	CA-C-O	9.03	130.12	120.55
1	T	67	GLN	CB-CG-CD	-9.03	97.25	112.60
1	h0	53	ASN	CA-CB-CG	-9.03	103.57	112.60
1	hp	90	PRO	CA-C-N	9.03	134.75	123.10
1	hp	90	PRO	C-N-CA	9.03	134.75	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hH	136	LEU	CA-C-N	9.03	131.71	120.34
1	hH	136	LEU	C-N-CA	9.03	131.71	120.34
1	jP	21	ASN	CA-CB-CG	-9.03	103.57	112.60
1	kx	211	LEU	N-CA-C	9.03	122.25	111.33
1	ld	100	ARG	NE-CZ-NH1	9.03	130.53	121.50
1	lf	198	CYS	CA-C-N	9.03	132.38	120.28
1	lf	198	CYS	C-N-CA	9.03	132.38	120.28
1	kk	18	ARG	NE-CZ-NH2	-9.03	111.08	119.20
1	2G	187	GLU	N-CA-C	9.03	121.20	111.36
1	b6	112	GLN	N-CA-C	9.03	121.12	111.28
1	cA	219	GLN	N-CA-C	9.03	121.12	111.28
1	cV	29	GLU	N-CA-CB	-9.03	98.58	110.59
1	2Z	80	TRP	N-CA-C	9.03	121.12	111.28
1	5V	36	VAL	CA-C-N	9.03	127.55	120.33
1	5V	36	VAL	C-N-CA	9.03	127.55	120.33
1	6M	72	THR	O-C-N	-9.03	112.55	122.12
1	89	65	ALA	N-CA-C	9.03	121.94	111.11
1	9u	195	ASN	CA-CB-CG	-9.03	103.58	112.60
1	a8	25	LYS	N-CA-C	9.03	121.12	111.28
1	12	34	PRO	N-CA-CB	-9.03	93.77	103.25
1	bM	124	ILE	CA-C-O	-9.03	113.83	119.15
1	1b	50	GLN	N-CA-C	9.03	120.73	111.07
1	i1	143	ARG	CA-C-N	9.02	133.10	120.29
1	i1	143	ARG	C-N-CA	9.02	133.10	120.29
1	ln	220	GLY	CA-C-N	9.02	133.25	120.53
1	ln	220	GLY	C-N-CA	9.02	133.25	120.53
1	2p	100	ARG	NE-CZ-NH1	9.02	130.52	121.50
1	31	37	ILE	N-CA-CB	9.02	116.18	110.50
1	dB	172	LEU	CA-C-N	9.02	132.37	120.28
1	fO	21	ASN	CA-C-N	9.02	132.17	120.44
1	fO	21	ASN	C-N-CA	9.02	132.17	120.44
1	kn	203	LYS	CA-C-N	9.02	132.17	120.44
1	kn	203	LYS	C-N-CA	9.02	132.17	120.44
1	lo	37	ILE	CA-C-O	-9.02	112.65	118.69
1	6K	79	GLU	CA-C-N	9.02	132.72	120.54
1	6K	79	GLU	C-N-CA	9.02	132.72	120.54
1	dB	172	LEU	C-N-CA	9.02	132.37	120.28
1	N	189	LEU	CA-C-O	-9.02	111.25	120.90
1	4W	199	LYS	O-C-N	-9.02	112.56	122.12
1	5w	76	GLU	N-CA-C	9.02	122.25	111.33
1	96	36	VAL	CA-C-N	9.02	127.55	120.33
1	96	36	VAL	C-N-CA	9.02	127.55	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	201	ILE	N-CA-CB	9.02	121.11	110.55
1	al	88	ALA	N-CA-C	9.02	121.97	110.24
1	aR	195	ASN	O-C-N	-9.02	112.01	121.30
1	co	56	LEU	CA-C-N	9.02	132.37	120.28
1	co	56	LEU	C-N-CA	9.02	132.37	120.28
1	cs	222	GLY	N-CA-C	9.02	122.25	112.33
1	r	28	GLU	CA-C-O	9.02	130.11	120.55
1	h9	221	VAL	CA-C-O	-9.02	108.72	119.54
1	iT	100	ARG	NE-CZ-NH1	9.02	130.52	121.50
1	jf	87	HIS	ND1-CE1-NE2	9.02	117.42	108.40
1	1Z	132	ARG	N-CA-C	9.02	121.11	111.28
1	lR	215	MET	N-CA-C	9.02	122.24	111.33
1	4Q	154	ARG	NH1-CZ-NH2	-9.02	107.58	119.30
1	5G	36	VAL	CA-C-N	9.02	127.55	120.33
1	5G	36	VAL	C-N-CA	9.02	127.55	120.33
1	6e	84	HIS	CA-C-N	9.02	128.96	119.85
1	6e	84	HIS	C-N-CA	9.02	128.96	119.85
1	7S	50	GLN	CA-C-N	9.02	132.37	120.28
1	7S	50	GLN	C-N-CA	9.02	132.37	120.28
1	7Y	195	ASN	CA-CB-CG	9.02	121.62	112.60
1	aE	195	ASN	O-C-N	-9.02	110.95	121.32
1	aJ	30	LYS	CA-C-O	9.02	128.45	119.97
1	bj	68	MET	N-CA-C	9.02	121.93	111.11
1	d0	204	ALA	O-C-N	9.02	131.47	122.09
1	e2	68	MET	CA-C-O	9.02	130.37	120.63
1	e4	196	PRO	CA-C-N	9.02	132.16	120.44
1	e4	196	PRO	C-N-CA	9.02	132.16	120.44
1	eS	190	LEU	N-CA-C	9.02	121.04	111.03
1	h1	128	GLU	N-CA-C	9.02	120.72	111.07
1	hw	208	ALA	CA-C-N	9.02	133.51	120.71
1	hw	208	ALA	C-N-CA	9.02	133.51	120.71
1	2h	21	ASN	CA-C-O	-9.02	111.35	120.82
1	7b	87	HIS	CA-CB-CG	9.02	122.82	113.80
1	fS	115	ILE	CA-C-N	9.02	130.18	119.99
1	1X	173	ARG	NE-CZ-NH1	9.02	130.51	121.50
1	5D	85	PRO	N-CA-C	9.02	125.95	111.26
1	88	82	ARG	NE-CZ-NH2	9.02	127.31	119.20
1	fS	115	ILE	C-N-CA	9.02	130.18	119.99
1	8j	120	HIS	CE1-NE2-CD2	-9.02	99.98	109.00
1	a9	126	VAL	CA-C-N	9.02	129.92	120.00
1	a9	126	VAL	C-N-CA	9.02	129.92	120.00
1	X	2	ILE	CB-CA-C	9.02	123.41	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12	19	THR	CA-C-N	9.02	132.16	120.44
1	12	19	THR	C-N-CA	9.02	132.16	120.44
1	b3	41	SER	N-CA-C	9.02	120.88	111.14
1	n	42	ALA	N-CA-C	9.02	121.11	111.28
1	ga	87	HIS	ND1-CE1-NE2	9.01	117.41	108.40
1	j6	163	ASP	CA-CB-CG	9.01	121.61	112.60
1	8i	115	ILE	CA-C-N	9.01	129.94	119.94
1	8i	115	ILE	C-N-CA	9.01	129.94	119.94
1	9a	173	ARG	NH1-CZ-NH2	-9.01	107.58	119.30
1	3b	195	ASN	CA-CB-CG	9.01	121.61	112.60
1	3L	133	TRP	CB-CG-CD2	-9.01	114.18	126.80
1	5l	69	LEU	O-C-N	-9.01	112.72	122.09
1	8N	165	VAL	N-CA-C	9.01	119.82	110.72
1	aP	141	ILE	N-CA-C	9.01	119.81	110.62
1	de	102	SER	O-C-N	-9.01	112.57	122.12
1	W	11	VAL	O-C-N	-9.01	113.33	122.97
1	5k	222	GLY	O-C-N	-9.01	114.47	123.48
1	iQ	185	MET	CA-C-N	9.01	132.35	120.28
1	iQ	185	MET	C-N-CA	9.01	132.35	120.28
1	kZ	75	GLU	O-C-N	-9.01	112.57	122.12
1	li	75	GLU	CA-C-N	9.01	133.09	120.29
1	li	75	GLU	C-N-CA	9.01	133.09	120.29
1	2l	179	GLN	CA-C-N	9.01	132.15	120.44
1	2l	179	GLN	C-N-CA	9.01	132.15	120.44
1	5g	82	ARG	NE-CZ-NH1	9.01	130.51	121.50
1	6L	161	PHE	CA-CB-CG	9.01	122.81	113.80
1	aR	144	MET	N-CA-C	9.01	120.87	111.14
1	da	131	LYS	CA-C-O	9.01	130.36	120.63
1	1l	223	GLY	O-C-N	-9.01	112.76	121.77
1	dQ	137	GLY	N-CA-C	9.01	122.95	112.50
1	ea	16	SER	N-CA-C	9.01	122.36	109.84
1	1s	165	VAL	O-C-N	-9.01	113.13	121.87
1	lf	23	TRP	O-C-N	-9.01	112.79	122.07
1	6N	101	GLY	N-CA-C	9.01	123.54	112.64
1	9t	84	HIS	CA-CB-CG	-9.01	104.79	113.80
1	eE	125	PRO	N-CA-CB	9.01	108.84	102.81
1	gM	201	ILE	CB-CA-C	-9.01	99.98	112.14
1	h2	92	GLU	CA-C-N	9.01	129.56	119.83
1	h2	92	GLU	C-N-CA	9.01	129.56	119.83
1	1T	19	THR	N-CA-C	9.01	120.71	111.07
1	aI	69	LEU	CA-C-N	9.01	133.08	120.29
1	aZ	90	PRO	N-CA-C	9.01	125.38	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	197	ASP	CA-CB-CG	-9.01	103.59	112.60
1	dC	100	ARG	CA-C-N	9.01	129.94	119.94
1	j2	177	ALA	CA-C-N	9.01	133.50	120.71
1	j2	177	ALA	C-N-CA	9.01	133.50	120.71
1	ja	12	HIS	CG-CD2-NE2	9.01	116.20	107.20
1	lE	132	ARG	CA-C-N	9.01	132.35	120.28
1	lE	132	ARG	C-N-CA	9.01	132.35	120.28
1	3e	27	VAL	CA-C-N	9.01	132.69	120.44
1	3e	27	VAL	C-N-CA	9.01	132.69	120.44
1	3t	10	MET	N-CA-C	9.01	123.29	110.23
1	4m	224	PRO	CB-CA-C	9.01	123.42	111.71
1	aI	69	LEU	C-N-CA	9.01	133.08	120.29
1	4G	201	ILE	O-C-N	-9.01	113.08	121.91
1	b1	195	ASN	CA-C-N	9.01	129.92	119.47
1	b1	195	ASN	C-N-CA	9.01	129.92	119.47
1	bj	217	ALA	N-CA-C	9.01	123.29	110.23
1	bl	14	ALA	CA-C-O	9.01	131.25	121.16
1	bw	140	LYS	O-C-N	-9.01	111.88	122.15
1	bJ	146	SER	N-CA-C	9.01	121.27	109.83
1	dC	100	ARG	C-N-CA	9.01	129.94	119.94
1	fF	124	ILE	O-C-N	-9.01	110.83	121.10
1	fL	14	ALA	N-CA-C	9.01	123.29	110.23
1	ii	146	SER	N-CA-C	9.00	120.64	109.57
1	2s	68	MET	O-C-N	-9.00	112.58	122.12
1	98	167	ARG	N-CA-C	9.00	121.09	111.28
1	iS	177	ALA	N-CA-C	9.00	122.95	110.35
1	jt	156	GLY	CA-C-O	-9.00	113.11	122.38
1	3w	126	VAL	CA-C-N	9.00	129.93	119.94
1	3w	126	VAL	C-N-CA	9.00	129.93	119.94
1	aT	122	PRO	CA-C-N	9.00	129.07	119.89
1	aT	122	PRO	C-N-CA	9.00	129.07	119.89
1	e2	18	ARG	NE-CZ-NH1	9.00	130.50	121.50
1	ek	99	PRO	N-CA-CB	-9.00	95.33	103.25
1	fp	5	ASN	N-CA-C	9.00	120.86	111.14
1	bx	170	LYS	CA-C-N	9.00	132.34	120.28
1	bx	170	LYS	C-N-CA	9.00	132.34	120.28
1	cM	223	GLY	CA-C-N	9.00	131.09	119.84
1	cM	223	GLY	C-N-CA	9.00	131.09	119.84
1	dp	72	THR	N-CA-C	9.00	121.09	111.28
1	1z	74	ASN	CA-CB-CG	9.00	121.60	112.60
1	h4	176	GLN	OE1-CD-NE2	-9.00	113.60	122.60
1	iU	92	GLU	CA-C-N	9.00	128.76	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iU	92	GLU	C-N-CA	9.00	128.76	119.76
1	jN	195	ASN	CA-C-O	-9.00	112.15	119.71
1	21	35	GLU	CA-C-N	9.00	131.95	120.70
1	21	35	GLU	C-N-CA	9.00	131.95	120.70
1	kH	181	VAL	CA-C-N	9.00	132.34	120.28
1	kH	181	VAL	C-N-CA	9.00	132.34	120.28
1	6A	84	HIS	CA-CB-CG	-9.00	104.80	113.80
1	6I	72	THR	CA-C-N	9.00	131.90	120.56
1	6I	72	THR	C-N-CA	9.00	131.90	120.56
1	8c	112	GLN	N-CA-C	9.00	122.22	111.33
1	9L	5	ASN	CA-CB-CG	-9.00	103.60	112.60
1	aZ	132	ARG	N-CA-C	9.00	120.70	111.07
1	cE	4	GLN	OE1-CD-NE2	-9.00	113.60	122.60
1	ff	28	GLU	N-CA-C	9.00	120.70	111.07
1	g3	132	ARG	NE-CZ-NH1	9.00	130.50	121.50
1	gc	203	LYS	N-CA-C	9.00	121.09	111.28
1	jL	185	MET	O-C-N	-9.00	111.89	122.15
1	kl	228	ALA	N-CA-CB	9.00	123.42	109.48
1	lt	200	THR	N-CA-C	9.00	121.91	111.11
1	2u	82	ARG	NE-CZ-NH1	9.00	130.50	121.50
1	2y	140	LYS	CA-C-N	9.00	132.79	120.46
1	2y	140	LYS	C-N-CA	9.00	132.79	120.46
1	7l	84	HIS	CA-CB-CG	9.00	122.80	113.80
1	bc	82	ARG	NE-CZ-NH1	9.00	130.50	121.50
1	1x	146	SER	CA-C-O	-9.00	112.28	119.66
1	4T	39	MET	N-CA-C	9.00	121.91	111.11
1	ab	199	LYS	CA-C-N	9.00	132.33	120.28
1	ab	199	LYS	C-N-CA	9.00	132.33	120.28
1	dr	87	HIS	CA-CB-CG	-9.00	104.80	113.80
1	dO	191	VAL	CA-C-O	-9.00	111.06	121.05
1	ei	139	ASN	OD1-CG-ND2	-9.00	113.60	122.60
1	fh	114	GLN	N-CA-C	9.00	120.70	111.07
1	fW	76	GLU	CA-C-N	9.00	132.13	120.44
1	fW	76	GLU	C-N-CA	9.00	132.13	120.44
1	g6	179	GLN	N-CA-C	9.00	120.78	110.97
1	U	230	VAL	CA-C-O	9.00	127.21	119.38
1	bH	26	VAL	N-CA-CB	8.99	121.07	110.55
1	gq	174	ALA	N-CA-C	8.99	121.08	111.28
1	gu	8	GLY	CA-C-N	8.99	134.76	121.72
1	gu	8	GLY	C-N-CA	8.99	134.76	121.72
1	gB	89	GLY	CA-C-N	8.99	129.07	119.90
1	gB	89	GLY	C-N-CA	8.99	129.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j6	52	LEU	N-CA-C	8.99	121.08	111.28
1	lC	8	GLY	O-C-N	-8.99	115.81	123.73
1	3l	118	MET	N-CA-C	8.99	121.08	111.28
1	6G	118	MET	N-CA-C	8.99	122.05	111.71
1	6R	97	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	7T	18	ARG	N-CA-C	8.99	120.69	111.07
1	dg	143	ARG	CA-C-N	8.99	132.13	120.44
1	gw	18	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	jf	195	ASN	CA-C-N	8.99	129.57	119.32
1	jf	195	ASN	C-N-CA	8.99	129.57	119.32
1	jE	18	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	6G	152	ASP	CA-C-N	8.99	132.55	120.50
1	6G	152	ASP	C-N-CA	8.99	132.55	120.50
1	8d	77	ALA	N-CA-C	8.99	121.08	111.28
1	aC	37	ILE	CA-C-O	8.99	124.72	118.69
1	87	213	GLU	CA-C-N	8.99	132.33	120.28
1	87	213	GLU	C-N-CA	8.99	132.33	120.28
1	1c	7	GLN	OE1-CD-NE2	-8.99	113.61	122.60
1	cl	203	LYS	N-CA-C	8.99	121.90	111.11
1	ct	186	THR	N-CA-C	-8.99	101.56	111.36
1	dg	143	ARG	C-N-CA	8.99	132.13	120.44
1	cx	27	VAL	O-C-N	-8.99	113.15	121.87
1	cD	12	HIS	CA-CB-CG	8.99	122.79	113.80
1	d0	66	MET	O-C-N	-8.99	112.59	122.12
1	dz	92	GLU	CA-C-O	-8.99	110.54	119.08
1	1x	220	GLY	N-CA-C	8.99	125.81	114.66
1	E	223	GLY	O-C-N	-8.99	112.78	121.77
1	l5	226	HIS	N-CA-C	8.99	120.85	111.14
1	ge	90	PRO	CA-C-N	8.99	132.84	120.35
1	ge	90	PRO	C-N-CA	8.99	132.84	120.35
1	gw	27	VAL	N-CA-C	8.99	119.80	110.36
1	it	28	GLU	O-C-N	-8.99	112.74	122.09
1	28	144	MET	CG-SD-CE	-8.99	81.12	100.90
1	4n	37	ILE	O-C-N	-8.99	114.67	120.42
1	5e	116	GLY	O-C-N	-8.99	113.23	122.13
1	5i	84	HIS	CG-CD2-NE2	8.99	116.19	107.20
1	7w	89	GLY	CA-C-N	8.99	131.08	119.84
1	7w	89	GLY	C-N-CA	8.99	131.08	119.84
1	8n	11	VAL	CA-C-O	8.99	130.19	120.57
1	bd	120	HIS	CA-CB-CG	8.99	122.79	113.80
1	be	42	ALA	N-CA-C	8.99	122.21	111.33
1	90	223	GLY	CA-C-N	8.99	129.55	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	90	223	GLY	C-N-CA	8.99	129.55	119.93
1	cX	229	ARG	NE-CZ-NH2	-8.99	111.11	119.20
1	cZ	173	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	d6	80	TRP	CA-C-N	8.99	132.33	120.28
1	d6	80	TRP	C-N-CA	8.99	132.33	120.28
1	es	39	MET	CA-C-N	8.99	132.33	120.28
1	es	39	MET	C-N-CA	8.99	132.33	120.28
1	20	100	ARG	NE-CZ-NH1	8.99	130.49	121.50
1	2Q	5	ASN	OD1-CG-ND2	-8.99	113.61	122.60
1	aw	32	PHE	CA-CB-CG	-8.99	104.81	113.80
1	gd	95	GLN	OE1-CD-NE2	-8.99	113.61	122.60
1	gd	98	GLU	CB-CA-C	-8.99	98.87	109.47
1	iT	54	THR	CA-C-O	-8.99	111.39	120.82
1	j8	37	ILE	N-CA-CB	8.99	116.54	110.52
1	kP	138	LEU	CA-C-N	8.99	132.32	120.28
1	kP	138	LEU	C-N-CA	8.99	132.32	120.28
1	lE	184	TRP	N-CA-C	8.99	121.08	111.28
1	6v	182	LYS	O-C-N	-8.99	111.71	122.22
1	ak	172	LEU	CA-C-N	8.99	132.12	120.44
1	ak	172	LEU	C-N-CA	8.99	132.12	120.44
1	ce	136	LEU	CA-C-N	8.99	130.15	119.99
1	ce	136	LEU	C-N-CA	8.99	130.15	119.99
1	1k	82	ARG	NE-CZ-NH2	-8.99	111.11	119.20
1	gB	132	ARG	NE-CZ-NH1	8.98	130.48	121.50
1	gD	155	GLN	OE1-CD-NE2	-8.98	113.62	122.60
1	hc	38	PRO	CA-C-N	8.98	132.66	120.44
1	hc	38	PRO	C-N-CA	8.98	132.66	120.44
1	1S	191	VAL	O-C-N	-8.98	112.58	121.83
1	iU	170	LYS	CA-C-N	8.98	132.32	120.28
1	iU	170	LYS	C-N-CA	8.98	132.32	120.28
1	jz	21	ASN	CA-CB-CG	8.98	121.58	112.60
1	jI	37	ILE	O-C-N	8.98	126.17	120.42
1	kc	143	ARG	NE-CZ-NH1	8.98	130.49	121.50
1	5p	183	ASN	CA-CB-CG	8.98	121.58	112.60
1	7y	160	PRO	CA-C-N	8.98	132.32	120.28
1	7y	160	PRO	C-N-CA	8.98	132.32	120.28
1	ai	143	ARG	N-CA-C	8.98	121.07	111.28
1	C	82	ARG	N-CA-C	8.98	120.68	111.07
1	jF	123	PRO	N-CA-C	8.98	125.39	111.11
1	jH	190	LEU	N-CA-C	8.98	120.76	110.97
1	kj	89	GLY	O-C-N	-8.98	112.79	121.77
1	2O	7	GLN	N-CA-C	8.98	121.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c0	195	ASN	CA-CB-CG	8.98	121.58	112.60
1	30	163	ASP	CA-CB-CG	8.98	121.58	112.60
1	5a	92	GLU	CA-C-N	8.98	131.06	119.84
1	5a	92	GLU	C-N-CA	8.98	131.06	119.84
1	5B	143	ARG	NH1-CZ-NH2	-8.98	107.62	119.30
1	6d	157	PRO	CA-C-N	8.98	132.31	120.28
1	6d	157	PRO	C-N-CA	8.98	132.31	120.28
1	7H	86	VAL	CA-C-O	8.98	130.00	120.48
1	87	226	HIS	CA-CB-CG	8.98	122.78	113.80
1	at	167	ARG	CA-C-O	8.98	130.25	120.82
1	aM	62	HIS	ND1-CG-CD2	8.98	115.08	106.10
1	b0	132	ARG	O-C-N	-8.98	111.71	122.22
1	cD	143	ARG	NE-CZ-NH2	8.98	127.28	119.20
1	bA	229	ARG	CA-C-O	8.98	132.12	120.98
1	c8	34	PRO	CA-C-N	8.98	134.97	120.60
1	c8	34	PRO	C-N-CA	8.98	134.97	120.60
1	1o	47	ALA	CA-C-O	8.98	131.25	120.92
1	gO	30	LYS	O-C-N	-8.98	113.05	122.30
1	3Z	146	SER	CA-C-N	8.98	130.72	121.65
1	3Z	146	SER	C-N-CA	8.98	130.72	121.65
1	j3	226	HIS	CA-C-N	8.98	133.48	120.82
1	j3	226	HIS	C-N-CA	8.98	133.48	120.82
1	4d	195	ASN	CA-CB-CG	-8.98	103.62	112.60
1	6U	115	ILE	N-CA-CB	8.98	120.47	110.51
1	9T	52	LEU	N-CA-C	8.98	121.07	111.28
1	kI	95	GLN	OE1-CD-NE2	-8.98	113.62	122.60
1	5I	103	ASP	N-CA-C	8.98	121.14	111.36
1	77	219	GLN	N-CA-C	8.98	124.04	113.18
1	8l	72	THR	N-CA-C	8.98	120.68	111.07
1	8O	179	GLN	O-C-N	-8.98	112.60	122.12
1	aw	132	ARG	NE-CZ-NH2	-8.98	111.12	119.20
1	cs	89	GLY	CA-C-N	8.98	129.54	119.93
1	cs	89	GLY	C-N-CA	8.98	129.54	119.93
1	eF	23	TRP	N-CA-C	8.98	121.07	111.28
1	fc	37	ILE	N-CA-CB	8.98	116.53	110.52
1	0	136	LEU	N-CA-C	8.98	121.07	111.28
1	ge	39	MET	N-CA-C	8.97	121.06	111.28
1	1C	2	ILE	N-CA-CB	8.97	120.31	110.53
1	iI	162	ARG	NE-CZ-NH2	-8.97	111.12	119.20
1	5H	27	VAL	N-CA-CB	-8.97	98.33	110.54
1	77	126	VAL	CA-C-N	8.97	129.72	119.94
1	77	126	VAL	C-N-CA	8.97	129.72	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	66	MET	N-CA-C	8.97	122.19	111.33
1	7D	144	MET	N-CA-C	8.97	120.67	111.07
1	al	144	MET	N-CA-C	8.97	122.03	111.71
1	bi	207	PRO	N-CA-C	8.97	124.97	114.20
1	cX	13	GLN	OE1-CD-NE2	-8.97	113.63	122.60
1	dw	21	ASN	CA-CB-CG	-8.97	103.63	112.60
1	dY	166	ASP	O-C-N	-8.97	112.61	122.12
1	eN	76	GLU	N-CA-CB	8.97	123.02	110.01
1	dQ	179	GLN	N-CA-C	8.97	121.06	111.28
1	1t	126	VAL	N-CA-C	8.97	119.77	110.62
1	w	84	HIS	CE1-NE2-CD2	-8.97	100.03	109.00
1	4	179	GLN	N-CA-C	8.97	120.67	111.07
1	7	173	ARG	NH1-CZ-NH2	-8.97	107.63	119.30
1	w	130	TYR	CA-C-N	8.97	132.10	120.44
1	w	130	TYR	C-N-CA	8.97	132.10	120.44
1	gv	82	ARG	N-CA-C	8.97	122.03	111.71
1	jQ	180	GLU	CA-C-N	8.97	132.04	120.56
1	1S	37	ILE	CA-C-N	8.97	129.55	119.32
1	1S	37	ILE	C-N-CA	8.97	129.55	119.32
1	jn	14	ALA	CA-C-N	8.97	132.82	120.35
1	jn	14	ALA	C-N-CA	8.97	132.82	120.35
1	jQ	180	GLU	C-N-CA	8.97	132.04	120.56
1	46	199	LYS	CA-C-N	8.97	132.65	120.54
1	46	199	LYS	C-N-CA	8.97	132.65	120.54
1	65	67	GLN	CA-C-N	8.97	132.30	120.28
1	65	67	GLN	C-N-CA	8.97	132.30	120.28
1	6o	212	GLU	CA-C-N	8.97	132.64	120.44
1	6o	212	GLU	C-N-CA	8.97	132.64	120.44
1	cZ	195	ASN	OD1-CG-ND2	-8.97	113.63	122.60
1	d3	189	LEU	CA-C-N	8.97	132.30	120.28
1	d3	189	LEU	C-N-CA	8.97	132.30	120.28
1	6J	226	HIS	CE1-NE2-CD2	-8.97	100.03	109.00
1	c4	66	MET	N-CA-C	8.97	122.18	111.33
1	e1	174	ALA	N-CA-C	8.97	123.48	112.54
1	1r	192	GLN	N-CA-C	8.97	121.06	111.28
1	1t	229	ARG	CA-C-O	8.97	130.06	119.56
1	4	62	HIS	CA-C-N	8.97	133.03	120.29
1	4	62	HIS	C-N-CA	8.97	133.03	120.29
1	gN	74	ASN	OD1-CG-ND2	-8.97	113.63	122.60
1	gY	26	VAL	N-CA-CB	8.97	121.04	110.55
1	i1	191	VAL	CA-C-N	8.97	132.30	120.28
1	i1	191	VAL	C-N-CA	8.97	132.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	170	LYS	CA-C-N	8.97	132.10	120.44
1	ji	170	LYS	C-N-CA	8.97	132.10	120.44
1	ky	191	VAL	N-CA-C	8.97	119.78	110.36
1	ln	42	ALA	N-CA-C	8.97	124.00	112.34
1	lx	171	THR	N-CA-C	-8.97	102.47	113.41
1	ly	183	ASN	CA-CB-CG	8.97	121.57	112.60
1	3U	55	MET	CA-C-N	8.97	132.30	120.28
1	3U	55	MET	C-N-CA	8.97	132.30	120.28
1	52	82	ARG	NE-CZ-NH2	-8.97	111.13	119.20
1	19	226	HIS	CA-CB-CG	8.97	122.77	113.80
1	5D	194	ALA	CA-C-O	8.97	131.06	121.55
1	6d	143	ARG	NE-CZ-NH1	8.97	130.47	121.50
1	6g	179	GLN	O-C-N	-8.97	112.77	122.09
1	9c	82	ARG	NE-CZ-NH1	8.97	130.47	121.50
1	9u	166	ASP	CA-CB-CG	8.97	121.57	112.60
1	bt	229	ARG	NE-CZ-NH2	-8.97	111.13	119.20
1	ec	58	THR	N-CA-C	8.97	121.06	111.28
1	q	230	VAL	CA-C-O	8.97	130.97	119.85
1	w	143	ARG	NE-CZ-NH2	8.97	127.27	119.20
1	h2	223	GLY	CA-C-N	8.96	128.70	119.56
1	h2	223	GLY	C-N-CA	8.96	128.70	119.56
1	hc	184	TRP	CA-C-N	8.96	132.64	120.54
1	hc	184	TRP	C-N-CA	8.96	132.64	120.54
1	fm	81	ASP	CA-C-O	-8.97	109.66	119.97
1	iA	74	ASN	CA-CB-CG	-8.96	103.64	112.60
1	jE	133	TRP	CA-C-N	8.96	132.74	120.46
1	jE	133	TRP	C-N-CA	8.96	132.74	120.46
1	38	167	ARG	NE-CZ-NH1	8.97	130.47	121.50
1	3z	82	ARG	NE-CZ-NH1	8.97	130.47	121.50
1	a8	124	ILE	O-C-N	-8.97	113.45	121.61
1	38	14	ALA	CA-C-N	8.96	133.86	120.77
1	38	14	ALA	C-N-CA	8.96	133.86	120.77
1	5a	226	HIS	CE1-NE2-CD2	-8.96	100.04	109.00
1	5V	112	GLN	N-CA-C	8.96	121.05	111.28
1	7a	63	GLN	N-CA-C	8.96	120.66	111.07
1	8Z	201	ILE	O-C-N	-8.96	113.17	121.87
1	fr	124	ILE	CA-C-O	8.97	126.98	120.88
1	9H	190	LEU	O-C-N	-8.96	112.62	122.12
1	dl	113	GLU	N-CA-C	8.96	121.05	111.28
1	hh	27	VAL	N-CA-C	8.96	119.76	110.62
1	j2	159	GLU	N-CA-C	8.96	120.94	109.65
1	jn	126	VAL	N-CA-C	8.96	120.84	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kw	12	HIS	CE1-NE2-CD2	-8.96	100.04	109.00
1	2S	132	ARG	NE-CZ-NH1	8.96	130.46	121.50
1	3R	2	ILE	O-C-N	-8.96	113.50	123.18
1	6F	36	VAL	CA-C-N	8.96	125.89	120.24
1	6F	36	VAL	C-N-CA	8.96	125.89	120.24
1	8g	159	GLU	O-C-N	-8.96	113.97	121.23
1	b8	9	GLN	N-CA-C	-8.96	100.20	114.09
1	bA	81	ASP	CA-CB-CG	8.96	121.56	112.60
1	3R	177	ALA	CA-C-N	8.96	133.59	120.87
1	3R	177	ALA	C-N-CA	8.96	133.59	120.87
1	7q	104	ILE	N-CA-C	8.96	119.76	110.62
1	fr	14	ALA	CA-C-N	8.96	133.77	120.69
1	fr	14	ALA	C-N-CA	8.96	133.77	120.69
1	1O	156	GLY	O-C-N	-8.96	113.22	122.18
1	46	89	GLY	CA-C-N	8.96	129.52	119.93
1	9P	172	LEU	N-CA-C	8.96	122.01	111.71
1	gi	195	ASN	CA-CB-CG	-8.96	103.64	112.60
1	he	189	LEU	CA-C-N	8.96	132.63	120.54
1	he	189	LEU	C-N-CA	8.96	132.63	120.54
1	jX	13	GLN	CA-C-N	8.96	133.53	120.90
1	jX	13	GLN	C-N-CA	8.96	133.53	120.90
1	ll	131	LYS	CA-C-N	8.96	133.01	120.29
1	ll	131	LYS	C-N-CA	8.96	133.01	120.29
1	46	89	GLY	C-N-CA	8.96	129.52	119.93
1	51	226	HIS	CA-CB-CG	8.96	122.76	113.80
1	7I	84	HIS	CA-CB-CG	-8.96	104.84	113.80
1	fN	159	GLU	N-CA-C	8.96	120.59	109.57
1	8D	36	VAL	CA-C-N	8.96	125.88	120.24
1	8D	36	VAL	C-N-CA	8.96	125.88	120.24
1	9m	92	GLU	O-C-N	-8.96	111.68	121.53
1	bF	25	LYS	N-CA-C	8.96	122.01	111.71
1	ch	112	GLN	N-CA-C	8.96	122.17	111.33
1	ei	139	ASN	CA-CB-CG	8.96	121.56	112.60
1	fn	128	GLU	CA-C-O	-8.96	111.32	120.90
1	fB	200	THR	N-CA-C	8.96	121.04	111.28
1	7	217	ALA	CA-C-O	8.96	130.05	120.55
1	lL	195	ASN	CA-CB-CG	8.96	121.56	112.60
1	8n	33	SER	CA-C-O	-8.96	112.41	120.56
1	g1	126	VAL	CA-C-N	8.96	129.85	120.00
1	1Y	35	GLU	N-CA-C	-8.95	102.36	113.28
1	kz	154	ARG	NE-CZ-NH1	8.95	130.45	121.50
1	2Q	89	GLY	CA-C-O	-8.96	113.16	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	150	ILE	CA-C-N	8.96	133.46	120.38
1	3G	150	ILE	C-N-CA	8.96	133.46	120.38
1	40	200	THR	O-C-N	-8.96	112.63	122.12
1	5C	229	ARG	NH1-CZ-NH2	-8.96	107.66	119.30
1	g1	126	VAL	C-N-CA	8.96	129.85	120.00
1	6T	121	ASN	OD1-CG-ND2	-8.95	113.65	122.60
1	7q	67	GLN	CA-C-N	8.95	132.28	120.28
1	7q	67	GLN	C-N-CA	8.95	132.28	120.28
1	8W	229	ARG	NE-CZ-NH1	8.96	130.46	121.50
1	8Y	62	HIS	CA-CB-CG	-8.95	104.85	113.80
1	aj	65	ALA	N-CA-C	8.95	121.04	111.28
1	az	164	TYR	CA-C-N	8.96	132.73	120.46
1	az	164	TYR	C-N-CA	8.96	132.73	120.46
1	bB	136	LEU	CA-C-N	8.95	130.11	119.99
1	bB	136	LEU	C-N-CA	8.95	130.11	119.99
1	cl	156	GLY	CA-C-N	8.96	129.13	119.28
1	cl	156	GLY	C-N-CA	8.96	129.13	119.28
1	cO	195	ASN	OD1-CG-ND2	-8.96	113.64	122.60
1	d4	9	GLN	O-C-N	-8.96	112.20	122.68
1	fp	101	GLY	CA-C-N	8.96	132.28	120.28
1	fp	101	GLY	C-N-CA	8.96	132.28	120.28
1	I	101	GLY	O-C-N	-8.96	113.50	122.19
1	gD	103	ASP	CA-C-N	8.95	132.72	120.46
1	gD	103	ASP	C-N-CA	8.95	132.72	120.46
1	i6	121	ASN	CA-CB-CG	-8.95	103.65	112.60
1	kT	91	ILE	N-CA-C	8.95	121.13	109.58
1	3O	98	GLU	O-C-N	-8.95	113.70	121.31
1	jV	108	THR	N-CA-CB	8.95	123.87	110.53
1	lK	169	TYR	N-CA-C	8.95	121.04	111.28
1	3F	66	MET	N-CA-C	8.95	121.04	111.28
1	4s	156	GLY	CA-C-N	8.95	128.61	118.85
1	4s	156	GLY	C-N-CA	8.95	128.61	118.85
1	4V	33	SER	N-CA-C	8.95	116.04	108.07
1	5f	146	SER	CA-C-O	-8.95	110.86	120.17
1	8W	124	ILE	CA-C-O	-8.95	114.79	120.88
1	ak	103	ASP	CA-C-N	8.95	131.84	120.56
1	ak	103	ASP	C-N-CA	8.95	131.84	120.56
1	cR	197	ASP	CA-CB-CG	8.95	121.55	112.60
1	dN	79	GLU	N-CA-C	8.95	121.04	111.28
1	lA	16	SER	CA-C-O	-8.95	109.59	119.61
1	21	83	LEU	CA-C-O	-8.95	110.94	120.42
1	2A	166	ASP	CA-C-N	8.95	132.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	166	ASP	C-N-CA	8.95	132.27	120.28
1	5d	28	GLU	N-CA-C	8.95	120.65	111.07
1	5z	24	VAL	N-CA-C	8.95	119.75	110.62
1	bZ	125	PRO	CA-C-N	8.95	132.72	120.46
1	6l	100	ARG	NE-CZ-NH1	8.95	130.45	121.50
1	87	75	GLU	N-CA-C	8.95	121.03	111.28
1	bZ	125	PRO	C-N-CA	8.95	132.72	120.46
1	c8	173	ARG	NE-CZ-NH1	8.95	130.45	121.50
1	ba	69	LEU	CA-C-N	8.95	132.07	120.44
1	ba	69	LEU	C-N-CA	8.95	132.07	120.44
1	gV	125	PRO	N-CA-CB	8.95	108.69	102.79
1	hI	38	PRO	O-C-N	-8.95	111.05	122.23
1	in	134	ILE	CA-C-O	-8.95	111.69	121.17
1	iu	230	VAL	CB-CA-C	-8.95	101.88	110.65
1	jg	74	ASN	O-C-N	-8.95	112.86	122.07
1	kf	36	VAL	N-CA-C	8.95	119.01	110.42
1	2w	146	SER	CA-C-O	-8.95	112.32	119.66
1	5r	57	ASN	CA-C-N	8.95	132.07	120.44
1	5r	57	ASN	C-N-CA	8.95	132.07	120.44
1	7h	47	ALA	N-CA-C	8.95	123.20	110.23
1	0	41	SER	CA-C-N	8.95	132.07	120.44
1	F	39	MET	O-C-N	-8.95	111.95	122.15
1	gw	72	THR	N-CA-CB	8.94	122.98	110.01
1	hZ	50	GLN	N-CA-C	8.95	121.03	111.28
1	5V	100	ARG	CA-C-N	8.95	129.91	119.98
1	93	63	GLN	N-CA-C	8.95	121.03	111.28
1	0	41	SER	C-N-CA	8.95	132.07	120.44
1	jK	213	GLU	O-C-N	-8.94	111.95	122.15
1	kd	212	GLU	N-CA-C	8.94	126.13	111.37
1	kY	124	ILE	CA-C-O	-8.95	113.38	119.19
1	lh	134	ILE	CA-C-N	8.94	132.14	120.60
1	lh	134	ILE	C-N-CA	8.94	132.14	120.60
1	lJ	177	ALA	N-CA-C	8.95	122.52	110.35
1	35	18	ARG	NH1-CZ-NH2	-8.94	107.67	119.30
1	3H	115	ILE	CA-C-N	8.94	130.05	120.03
1	3H	115	ILE	C-N-CA	8.94	130.05	120.03
1	5x	209	ALA	N-CA-C	8.94	121.41	110.41
1	5I	167	ARG	N-CA-C	8.95	121.11	111.36
1	5V	100	ARG	C-N-CA	8.95	129.91	119.98
1	7g	120	HIS	CB-CG-CD2	-8.94	119.57	131.20
1	9k	84	HIS	CA-C-N	8.94	128.97	119.76
1	9k	84	HIS	C-N-CA	8.94	128.97	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	89	GLY	O-C-N	-8.94	112.83	121.77
1	ai	195	ASN	CA-C-O	-8.94	110.95	120.70
1	eI	159	GLU	CA-C-N	8.95	129.01	119.89
1	eI	159	GLU	C-N-CA	8.95	129.01	119.89
1	gX	128	GLU	N-CA-C	8.94	121.11	111.36
1	h5	42	ALA	N-CA-C	8.94	121.03	111.28
1	i5	74	ASN	CA-C-N	8.94	132.60	120.44
1	i5	74	ASN	C-N-CA	8.94	132.60	120.44
1	im	11	VAL	N-CA-C	8.94	120.64	108.84
1	iT	125	PRO	CA-C-O	-8.94	114.69	121.31
1	iZ	181	VAL	N-CA-C	8.94	118.94	110.53
1	jm	64	ALA	CA-C-N	8.94	132.07	120.44
1	jm	64	ALA	C-N-CA	8.94	132.07	120.44
1	kl	153	ILE	CA-C-O	8.94	127.16	119.38
1	2Q	126	VAL	N-CA-CB	-8.94	99.29	110.47
1	3h	188	THR	CA-C-N	8.94	132.06	120.44
1	3h	188	THR	C-N-CA	8.94	132.06	120.44
1	5m	138	LEU	CA-C-N	8.94	132.26	120.28
1	5m	138	LEU	C-N-CA	8.94	132.26	120.28
1	5O	40	PHE	CA-CB-CG	-8.94	104.86	113.80
1	3T	184	TRP	N-CA-C	8.94	120.64	111.07
1	4w	172	LEU	O-C-N	-8.94	112.64	122.12
1	7u	168	PHE	N-CA-C	8.94	121.84	111.11
1	89	193	ASN	CA-CB-CG	-8.94	103.66	112.60
1	9U	9	GLN	CA-C-N	8.94	133.41	120.71
1	9U	9	GLN	C-N-CA	8.94	133.41	120.71
1	a8	209	ALA	N-CA-C	8.94	121.86	110.24
1	ao	159	GLU	CA-C-O	-8.94	111.80	119.76
1	1e	3	VAL	CA-C-N	8.94	135.51	121.56
1	1e	3	VAL	C-N-CA	8.94	135.51	121.56
1	g2	130	TYR	CA-C-N	8.94	132.61	120.54
1	g2	130	TYR	C-N-CA	8.94	132.61	120.54
1	5	171	THR	O-C-N	-8.94	112.86	122.07
1	bk	74	ASN	CA-C-N	8.94	132.60	120.44
1	bk	74	ASN	C-N-CA	8.94	132.60	120.44
1	d7	135	ILE	CA-C-N	8.94	132.99	120.29
1	d7	135	ILE	C-N-CA	8.94	132.99	120.29
1	l1	212	GLU	CA-C-N	8.94	132.63	120.38
1	l1	212	GLU	C-N-CA	8.94	132.63	120.38
1	2w	224	PRO	CA-C-N	8.94	129.83	120.00
1	2w	224	PRO	C-N-CA	8.94	129.83	120.00
1	2F	212	GLU	N-CA-C	8.94	121.84	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3E	212	GLU	N-CA-C	8.94	121.03	111.28
1	67	226	HIS	CA-CB-CG	-8.94	104.86	113.80
1	3N	203	LYS	CA-C-N	8.94	132.06	120.44
1	3N	203	LYS	C-N-CA	8.94	132.06	120.44
1	4g	36	VAL	CA-C-N	8.94	125.87	120.24
1	4g	36	VAL	C-N-CA	8.94	125.87	120.24
1	9m	11	VAL	CA-C-N	8.94	135.80	123.11
1	9m	11	VAL	C-N-CA	8.94	135.80	123.11
1	b1	136	LEU	CA-C-N	8.94	130.09	119.99
1	b1	136	LEU	C-N-CA	8.94	130.09	119.99
1	ck	162	ARG	N-CA-C	8.94	120.64	111.07
1	cG	21	ASN	CA-CB-CG	8.94	121.54	112.60
1	cG	103	ASP	CA-CB-CG	8.94	121.54	112.60
1	2s	36	VAL	CA-C-N	8.94	129.01	120.43
1	2s	36	VAL	C-N-CA	8.94	129.01	120.43
1	6m	173	ARG	NE-CZ-NH1	8.94	130.44	121.50
1	7i	15	ILE	N-CA-C	8.94	120.47	109.30
1	7t	193	ASN	OD1-CG-ND2	-8.94	113.67	122.60
1	8b	212	GLU	N-CA-C	8.94	121.02	111.28
1	8k	59	VAL	N-CA-C	8.94	122.22	111.05
1	8v	176	GLN	CA-C-N	8.94	133.42	120.82
1	8v	176	GLN	C-N-CA	8.94	133.42	120.82
1	8z	89	GLY	CA-C-N	8.94	129.49	119.93
1	8z	89	GLY	C-N-CA	8.94	129.49	119.93
1	9R	101	GLY	N-CA-C	8.94	123.73	112.83
1	ah	23	TRP	N-CA-C	8.94	122.14	111.33
1	13	118	MET	N-CA-C	8.94	121.02	111.28
1	ci	137	GLY	O-C-N	-8.94	113.52	122.19
1	fn	188	THR	CA-C-N	8.94	132.25	120.28
1	fn	188	THR	C-N-CA	8.94	132.25	120.28
1	F	4	GLN	N-CA-C	8.94	123.28	109.96
1	gQ	137	GLY	CA-C-N	8.93	132.98	120.29
1	gQ	137	GLY	C-N-CA	8.93	132.98	120.29
1	i1	43	LEU	O-C-N	-8.93	112.65	122.12
1	jC	87	HIS	CA-C-N	8.93	134.24	120.75
1	jC	87	HIS	C-N-CA	8.93	134.24	120.75
1	lg	64	ALA	CA-C-N	8.93	132.25	120.28
1	lg	64	ALA	C-N-CA	8.93	132.25	120.28
1	3K	126	VAL	N-CA-C	8.93	119.00	110.42
1	3Y	226	HIS	CE1-NE2-CD2	-8.93	100.07	109.00
1	45	5	ASN	N-CA-C	8.93	123.57	111.24
1	4u	140	LYS	O-C-N	-8.93	112.87	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5R	195	ASN	CA-C-N	8.93	128.59	118.85
1	5R	195	ASN	C-N-CA	8.93	128.59	118.85
1	9E	36	VAL	CA-C-N	8.93	125.87	120.24
1	9E	36	VAL	C-N-CA	8.93	125.87	120.24
1	bb	113	GLU	O-C-N	-8.93	111.97	122.15
1	e8	55	MET	N-CA-C	8.93	121.02	111.28
1	eD	166	ASP	N-CA-C	8.93	120.63	111.07
1	a3	25	LYS	N-CA-C	8.93	122.14	111.33
1	ak	73	ILE	N-CA-C	8.93	119.00	110.42
1	14	184	TRP	N-CA-C	8.93	121.02	111.28
1	hc	126	VAL	O-C-N	-8.93	113.21	121.87
1	if	9	GLN	OE1-CD-NE2	-8.93	113.67	122.60
1	ka	166	ASP	CA-C-N	8.93	132.58	120.44
1	ka	166	ASP	C-N-CA	8.93	132.58	120.44
1	lM	213	GLU	N-CA-CB	8.93	123.25	110.12
1	3w	167	ARG	NE-CZ-NH1	8.93	130.43	121.50
1	8c	50	GLN	OE1-CD-NE2	-8.93	113.67	122.60
1	d3	121	ASN	CA-CB-CG	8.93	121.53	112.60
1	gB	173	ARG	NE-CZ-NH2	-8.93	111.17	119.20
1	gT	136	LEU	CA-C-N	8.93	129.82	120.00
1	gT	136	LEU	C-N-CA	8.93	129.82	120.00
1	3A	166	ASP	CA-CB-CG	8.93	121.53	112.60
1	4u	125	PRO	N-CA-CB	-8.93	95.40	102.36
1	5m	217	ALA	N-CA-C	8.93	123.49	110.28
1	9M	136	LEU	CA-C-N	8.93	129.82	120.00
1	9M	136	LEU	C-N-CA	8.93	129.82	120.00
1	bc	114	GLN	N-CA-C	8.93	121.01	111.28
1	1x	58	THR	N-CA-C	8.93	121.01	111.28
1	fV	122	PRO	CA-C-N	8.93	129.01	119.90
1	fV	122	PRO	C-N-CA	8.93	129.01	119.90
1	gI	76	GLU	N-CA-C	8.93	121.01	111.28
1	kh	62	HIS	ND1-CG-CD2	8.93	115.03	106.10
1	2C	92	GLU	N-CA-CB	8.93	123.04	110.01
1	4c	151	LEU	O-C-N	-8.93	112.66	122.12
1	4h	161	PHE	CA-CB-CG	8.93	122.73	113.80
1	5M	123	PRO	N-CA-C	8.93	125.25	111.15
1	5C	142	VAL	CA-C-N	8.93	132.04	120.44
1	5C	142	VAL	C-N-CA	8.93	132.04	120.44
1	6g	200	THR	O-C-N	-8.93	112.66	122.12
1	6q	37	ILE	O-C-N	8.93	126.13	120.42
1	7m	29	GLU	N-CA-C	8.93	121.01	111.28
1	8n	166	ASP	CA-CB-CG	8.93	121.53	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bd	67	GLN	N-CA-C	8.93	120.62	111.07
1	c4	152	ASP	CA-CB-CG	8.93	121.53	112.60
1	c9	24	VAL	O-C-N	-8.93	113.16	121.91
1	d9	162	ARG	N-CA-C	8.93	122.13	111.33
1	cT	21	ASN	CA-CB-CG	8.93	121.53	112.60
1	dA	75	GLU	N-CA-C	8.93	120.78	111.14
1	gO	23	TRP	N-CA-C	8.92	121.01	111.28
1	7w	101	GLY	CA-C-O	8.92	130.24	121.05
1	h2	114	GLN	CA-C-N	8.92	133.09	120.42
1	h2	114	GLN	C-N-CA	8.92	133.09	120.42
1	hh	143	ARG	CA-C-N	8.92	132.43	120.65
1	hh	143	ARG	C-N-CA	8.92	132.43	120.65
1	k0	145	TYR	N-CA-C	8.92	121.01	111.28
1	lc	37	ILE	O-C-N	-8.92	114.71	120.42
1	7t	2	ILE	N-CA-C	8.92	120.67	108.89
1	ee	36	VAL	N-CA-CB	8.92	120.42	110.51
1	6n	27	VAL	CA-C-N	8.92	132.04	120.44
1	6n	27	VAL	C-N-CA	8.92	132.04	120.44
1	97	66	MET	N-CA-C	8.92	121.00	111.28
1	bd	189	LEU	N-CA-C	8.92	121.01	111.28
1	hA	29	GLU	CA-C-O	8.92	130.37	121.00
1	k6	21	ASN	CA-CB-CG	8.92	121.52	112.60
1	k4	206	GLY	O-C-N	-8.92	112.85	121.77
1	k9	173	ARG	N-CA-C	8.92	121.00	111.28
1	km	36	VAL	CA-C-N	8.92	125.86	120.24
1	km	36	VAL	C-N-CA	8.92	125.86	120.24
1	kq	195	ASN	CA-C-N	8.92	128.66	119.56
1	kq	195	ASN	C-N-CA	8.92	128.66	119.56
1	kr	165	VAL	CA-C-N	8.92	132.58	120.54
1	kr	165	VAL	C-N-CA	8.92	132.58	120.54
1	kX	36	VAL	CA-C-N	8.92	125.86	120.24
1	kX	36	VAL	C-N-CA	8.92	125.86	120.24
1	34	37	ILE	N-CA-CB	8.92	116.12	110.50
1	6n	122	PRO	CA-C-N	8.92	129.00	119.90
1	6n	122	PRO	C-N-CA	8.92	129.00	119.90
1	8w	162	ARG	NE-CZ-NH1	8.92	130.42	121.50
1	12	202	LEU	N-CA-C	8.92	121.00	111.28
1	kw	151	LEU	N-CA-C	8.92	121.08	111.36
1	4i	150	ILE	N-CA-C	8.92	122.20	111.05
1	5U	45	GLU	N-CA-C	8.92	120.61	111.07
1	8y	221	VAL	N-CA-C	8.92	119.73	110.36
1	ae	55	MET	N-CA-C	8.92	120.62	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	50	GLN	CA-C-O	8.92	130.44	120.90
1	a6	180	GLU	N-CA-C	8.92	121.00	111.28
1	aA	74	ASN	OD1-CG-ND2	-8.92	113.68	122.60
1	bb	115	ILE	CA-C-N	8.92	130.07	119.99
1	bb	115	ILE	C-N-CA	8.92	130.07	119.99
1	bt	34	PRO	CA-C-N	8.92	133.41	120.38
1	bt	34	PRO	C-N-CA	8.92	133.41	120.38
1	dd	191	VAL	N-CA-C	8.92	118.91	110.53
1	g4	135	ILE	N-CA-C	8.92	118.98	110.42
1	y	187	GLU	N-CA-C	8.92	121.08	111.36
1	i0	167	ARG	NE-CZ-NH1	8.92	130.42	121.50
1	ix	139	ASN	OD1-CG-ND2	-8.92	113.68	122.60
1	jD	76	GLU	N-CA-C	8.92	121.00	111.28
1	lz	42	ALA	N-CA-C	8.92	120.77	111.14
1	9M	229	ARG	N-CA-C	8.92	123.44	110.42
1	iS	133	TRP	CA-C-O	8.92	130.18	120.82
1	kl	62	HIS	ND1-CG-CD2	8.92	115.02	106.10
1	kV	115	ILE	N-CA-CB	8.92	120.98	110.55
1	2G	97	ARG	NE-CZ-NH2	8.92	127.22	119.20
1	2M	3	VAL	O-C-N	-8.92	114.04	123.14
1	60	114	GLN	N-CA-C	8.92	120.61	111.07
1	6d	9	GLN	CG-CD-NE2	8.92	129.78	116.40
1	6d	217	ALA	N-CA-C	8.92	121.83	110.24
1	6z	12	HIS	CA-CB-CG	-8.92	104.88	113.80
1	9R	22	ALA	CA-C-N	8.92	132.23	120.28
1	9R	22	ALA	C-N-CA	8.92	132.23	120.28
1	aL	84	HIS	CB-CG-CD2	-8.92	119.61	131.20
1	ck	82	ARG	NH1-CZ-NH2	-8.92	107.71	119.30
1	cS	126	VAL	CA-C-N	8.92	130.07	119.99
1	cS	126	VAL	C-N-CA	8.92	130.07	119.99
1	fL	176	GLN	CA-C-O	8.92	129.93	119.32
1	7	67	GLN	OE1-CD-NE2	-8.92	113.68	122.60
1	8	60	GLY	CA-C-N	8.92	130.16	120.44
1	8	60	GLY	C-N-CA	8.92	130.16	120.44
1	jo	162	ARG	NE-CZ-NH2	-8.91	111.18	119.20
1	aw	80	TRP	N-CA-C	8.91	121.81	111.11
1	kF	167	ARG	CA-C-O	8.91	130.22	119.97
1	4Q	134	ILE	O-C-N	-8.91	113.22	121.87
1	50	185	MET	N-CA-C	8.91	121.00	111.28
1	ak	87	HIS	CE1-NE2-CD2	-8.91	100.09	109.00
1	aM	33	SER	CA-C-N	8.91	128.65	119.56
1	aM	33	SER	C-N-CA	8.91	128.65	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aV	75	GLU	N-CA-C	8.91	121.08	111.36
1	ez	53	ASN	CA-CB-CG	-8.91	103.69	112.60
1	l5	124	ILE	CA-C-O	8.91	126.02	119.25
1	lM	62	HIS	CA-C-N	8.91	132.22	120.28
1	lM	62	HIS	C-N-CA	8.91	132.22	120.28
1	2H	115	ILE	N-CA-C	8.91	119.71	110.62
1	7C	131	LYS	O-C-N	-8.91	112.67	122.12
1	7X	121	ASN	CA-CB-CG	-8.91	103.69	112.60
1	1h	198	CYS	CA-C-N	8.91	132.03	120.44
1	1h	198	CYS	C-N-CA	8.91	132.03	120.44
1	dl	95	GLN	OE1-CD-NE2	-8.91	113.69	122.60
1	eX	166	ASP	O-C-N	-8.91	112.82	122.09
1	i0	153	ILE	N-CA-CB	8.91	120.93	110.95
1	it	130	TYR	CA-C-N	8.91	132.22	120.28
1	it	130	TYR	C-N-CA	8.91	132.22	120.28
1	iV	76	GLU	CA-C-N	8.91	132.22	120.28
1	iV	76	GLU	C-N-CA	8.91	132.22	120.28
1	lo	168	PHE	CA-CB-CG	-8.91	104.89	113.80
1	gF	76	GLU	O-C-N	-8.91	111.31	122.27
1	k3	132	ARG	NE-CZ-NH2	-8.91	111.18	119.20
1	2w	103	ASP	O-C-N	-8.91	112.67	122.12
1	kE	36	VAL	CA-C-N	8.91	125.85	120.24
1	kE	36	VAL	C-N-CA	8.91	125.85	120.24
1	44	163	ASP	N-CA-C	8.91	120.99	111.28
1	1d	90	PRO	CA-C-O	-8.91	110.81	121.95
1	48	41	SER	CA-C-N	8.91	132.94	120.29
1	48	41	SER	C-N-CA	8.91	132.94	120.29
1	cK	167	ARG	NE-CZ-NH1	8.91	130.41	121.50
1	fB	161	PHE	CA-CB-CG	8.91	122.71	113.80
1	fv	37	ILE	CA-C-O	-8.91	112.72	118.69
1	ge	28	GLU	N-CA-C	8.91	120.99	111.28
1	gD	133	TRP	CB-CG-CD2	-8.91	114.33	126.80
1	hm	176	GLN	CA-C-O	8.91	129.98	119.56
1	iW	100	ARG	NE-CZ-NH1	8.91	130.41	121.50
1	jK	61	GLY	N-CA-C	8.91	122.13	112.33
1	lA	121	ASN	CA-CB-CG	-8.91	103.69	112.60
1	9H	36	VAL	CA-C-O	8.91	130.31	121.05
1	j9	195	ASN	OD1-CG-ND2	-8.91	113.69	122.60
1	kJ	50	GLN	OE1-CD-NE2	-8.91	113.69	122.60
1	lk	66	MET	N-CA-C	8.91	121.07	111.36
1	42	181	VAL	N-CA-C	8.91	119.70	110.62
1	4g	134	ILE	N-CA-C	8.91	119.71	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4i	29	GLU	N-CA-C	8.91	121.07	111.36
1	5j	12	HIS	O-C-N	-8.91	112.35	122.86
1	ab	163	ASP	O-C-N	-8.91	112.68	122.12
1	cv	37	ILE	O-C-N	-8.91	113.75	120.07
1	aJ	29	GLU	CA-C-O	8.91	130.08	120.55
1	bO	154	ARG	NE-CZ-NH1	8.91	130.41	121.50
1	cP	14	ALA	N-CA-C	8.91	121.82	110.24
1	de	16	SER	O-C-N	-8.91	113.37	121.30
1	fd	207	PRO	CA-C-N	8.91	132.22	120.28
1	fd	207	PRO	C-N-CA	8.91	132.22	120.28
1	g3	163	ASP	CA-C-N	8.91	132.22	120.28
1	g3	163	ASP	C-N-CA	8.91	132.22	120.28
1	k	136	LEU	CA-C-N	8.91	129.65	119.94
1	k	136	LEU	C-N-CA	8.91	129.65	119.94
1	hl	199	LYS	CA-C-N	8.90	132.21	120.28
1	hl	199	LYS	C-N-CA	8.90	132.21	120.28
1	i8	80	TRP	CA-C-O	8.90	129.99	120.55
1	22	229	ARG	NE-CZ-NH2	8.90	127.21	119.20
1	cC	114	GLN	N-CA-C	8.90	121.80	111.11
1	P	143	ARG	NE-CZ-NH2	-8.90	111.19	119.20
1	ia	165	VAL	N-CA-C	8.90	118.97	110.42
1	jO	85	PRO	CA-C-O	-8.90	114.53	121.38
1	6a	6	LEU	CA-C-O	8.90	123.10	117.94
1	6y	209	ALA	CA-C-N	8.90	133.51	120.87
1	6y	209	ALA	C-N-CA	8.90	133.51	120.87
1	75	173	ARG	NE-CZ-NH2	-8.90	111.19	119.20
1	bB	37	ILE	N-CA-CB	-8.90	103.50	110.45
1	7c	103	ASP	CA-C-N	8.90	133.06	120.42
1	7c	103	ASP	C-N-CA	8.90	133.06	120.42
1	8g	84	HIS	CA-CB-CG	-8.90	104.90	113.80
1	9y	154	ARG	NE-CZ-NH2	-8.90	111.19	119.20
1	9M	6	LEU	N-CA-CB	-8.90	98.29	110.67
1	Y	143	ARG	NE-CZ-NH1	8.90	130.40	121.50
1	eu	62	HIS	CA-CB-CG	8.90	122.70	113.80
1	8	84	HIS	CA-C-N	8.90	129.45	119.83
1	8	84	HIS	C-N-CA	8.90	129.45	119.83
1	gF	195	ASN	CA-C-N	8.90	130.97	119.84
1	gF	195	ASN	C-N-CA	8.90	130.97	119.84
1	iJ	7	GLN	OE1-CD-NE2	-8.90	113.70	122.60
1	3a	28	GLU	N-CA-C	8.90	121.06	111.36
1	bp	227	LYS	N-CA-C	8.90	123.14	110.23
1	co	69	LEU	CA-C-N	8.90	132.01	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	69	LEU	C-N-CA	8.90	132.01	120.44
1	1f	126	VAL	CA-C-N	8.90	129.86	119.98
1	1f	126	VAL	C-N-CA	8.90	129.86	119.98
1	jP	180	GLU	N-CA-C	8.90	120.59	111.07
1	jX	201	ILE	CA-C-N	8.90	132.93	120.29
1	jX	201	ILE	C-N-CA	8.90	132.93	120.29
1	2j	183	ASN	O-C-N	-8.90	112.90	122.07
1	8a	199	LYS	N-CA-C	8.90	121.95	111.71
1	4r	162	ARG	NE-CZ-NH1	8.90	130.40	121.50
1	95	72	THR	CA-C-O	8.90	130.16	120.82
1	98	177	ALA	N-CA-C	8.90	123.45	110.28
1	fP	190	LEU	CA-C-O	-8.90	111.53	120.70
1	gV	36	VAL	CA-C-N	8.90	128.97	120.43
1	gV	36	VAL	C-N-CA	8.90	128.97	120.43
1	h3	11	VAL	CA-C-N	8.90	134.15	121.42
1	h3	11	VAL	C-N-CA	8.90	134.15	121.42
1	hH	163	ASP	CA-C-N	8.90	132.01	120.44
1	hH	163	ASP	C-N-CA	8.90	132.01	120.44
1	ir	227	LYS	N-CA-C	-8.90	100.84	112.41
1	jN	152	ASP	CA-CB-CG	-8.90	103.70	112.60
1	5f	92	GLU	O-C-N	-8.90	112.34	120.71
1	kW	167	ARG	NE-CZ-NH2	8.90	127.21	119.20
1	2f	204	ALA	CA-C-N	8.90	132.01	120.44
1	2f	204	ALA	C-N-CA	8.90	132.01	120.44
1	44	180	GLU	N-CA-C	8.90	120.98	111.28
1	76	84	HIS	ND1-CE1-NE2	8.90	117.30	108.40
1	7d	127	GLY	N-CA-C	8.90	123.41	112.64
1	9l	52	LEU	N-CA-C	8.90	120.98	111.28
1	cl	11	VAL	CA-C-O	8.90	129.73	120.39
1	dC	201	ILE	CA-C-O	-8.90	111.74	121.17
1	dP	63	GLN	N-CA-C	8.90	120.59	111.07
1	K	189	LEU	O-C-N	-8.90	112.69	122.12
1	2E	118	MET	N-CA-C	8.90	120.98	111.28
1	5z	115	ILE	CA-C-N	8.90	130.04	119.99
1	5z	115	ILE	C-N-CA	8.90	130.04	119.99
1	7Z	182	LYS	N-CA-C	8.90	120.98	111.28
1	8w	26	VAL	N-CA-C	8.90	118.96	110.42
1	8D	191	VAL	CA-C-N	8.90	133.09	120.28
1	8D	191	VAL	C-N-CA	8.90	133.09	120.28
1	8L	125	PRO	CA-C-N	8.90	132.65	120.46
1	8L	125	PRO	C-N-CA	8.90	132.65	120.46
1	aF	36	VAL	CA-C-N	8.90	127.45	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aF	36	VAL	C-N-CA	8.90	127.45	120.33
1	cG	16	SER	O-C-N	-8.90	109.54	121.64
1	f4	126	VAL	N-CA-C	8.90	120.76	110.62
1	dt	13	GLN	CA-C-N	8.90	133.50	120.87
1	dt	13	GLN	C-N-CA	8.90	133.50	120.87
1	e9	32	PHE	CA-CB-CG	-8.90	104.90	113.80
1	gU	89	GLY	CA-C-N	8.89	130.96	119.84
1	gU	89	GLY	C-N-CA	8.89	130.96	119.84
1	i3	126	VAL	N-CA-C	8.89	123.44	111.17
1	iW	23	TRP	CA-C-N	8.89	131.77	120.56
1	iW	23	TRP	C-N-CA	8.89	131.77	120.56
1	4b	158	LYS	N-CA-C	8.89	120.75	111.14
1	4U	40	PHE	CA-CB-CG	-8.89	104.91	113.80
1	6M	68	MET	CA-C-N	8.89	132.54	120.44
1	6M	68	MET	C-N-CA	8.89	132.54	120.44
1	aO	53	ASN	CA-CB-CG	-8.89	103.70	112.60
1	aX	226	HIS	CA-CB-CG	8.89	122.69	113.80
1	eW	162	ARG	N-CA-C	8.89	120.97	111.28
1	gn	195	ASN	CA-CB-CG	8.89	121.49	112.60
1	1D	121	ASN	CA-C-O	-8.89	112.65	119.59
1	hM	134	ILE	O-C-N	-8.89	112.67	121.83
1	iq	16	SER	CA-C-O	-8.89	112.74	119.32
1	3y	183	ASN	CA-CB-CG	8.89	121.49	112.60
1	43	37	ILE	N-CA-CB	8.89	117.39	110.45
1	84	25	LYS	N-CA-C	8.89	120.97	111.28
1	8L	197	ASP	N-CA-C	8.89	120.97	111.28
1	ax	135	ILE	N-CA-C	8.89	120.76	110.62
1	aC	149	SER	CA-C-O	8.89	132.22	120.21
1	1e	143	ARG	NE-CZ-NH1	8.89	130.39	121.50
1	f7	52	LEU	N-CA-C	8.89	120.97	111.28
1	fE	190	LEU	N-CA-C	8.89	121.78	111.11
1	fE	214	MET	O-C-N	-8.89	112.49	122.09
1	1z	126	VAL	CA-C-N	8.89	129.63	119.94
1	1z	126	VAL	C-N-CA	8.89	129.63	119.94
1	g0	102	SER	CA-C-O	8.89	130.34	119.31
1	B	87	HIS	CA-C-N	8.89	134.18	120.75
1	B	87	HIS	C-N-CA	8.89	134.18	120.75
1	hW	165	VAL	N-CA-CB	8.89	122.63	110.54
1	kw	97	ARG	NH1-CZ-NH2	-8.89	107.74	119.30
1	e5	16	SER	CA-C-N	8.89	128.54	118.85
1	kd	49	PRO	CA-C-N	8.89	132.00	120.44
1	kd	49	PRO	C-N-CA	8.89	132.00	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	li	212	GLU	CA-C-N	8.89	132.39	120.65
1	li	212	GLU	C-N-CA	8.89	132.39	120.65
1	lo	193	ASN	CA-CB-CG	-8.89	103.71	112.60
1	3C	178	SER	CA-C-N	8.89	132.54	120.54
1	3C	178	SER	C-N-CA	8.89	132.54	120.54
1	dJ	45	GLU	N-CA-C	8.89	122.09	111.33
1	6A	181	VAL	CA-C-N	8.89	132.19	120.28
1	6A	181	VAL	C-N-CA	8.89	132.19	120.28
1	8P	228	ALA	N-CA-C	8.89	122.08	110.43
1	1d	96	MET	N-CA-CB	-8.89	99.17	111.00
1	e5	16	SER	C-N-CA	8.89	128.54	118.85
1	1p	22	ALA	CA-C-N	8.89	132.19	120.28
1	1p	22	ALA	C-N-CA	8.89	132.19	120.28
1	d	24	VAL	N-CA-C	8.89	119.69	110.36
1	H	161	PHE	CA-C-N	8.89	134.16	120.82
1	H	161	PHE	C-N-CA	8.89	134.16	120.82
1	J	87	HIS	CA-CB-CG	-8.89	104.91	113.80
1	gR	130	TYR	O-C-N	-8.89	112.70	122.12
1	jv	50	GLN	OE1-CD-NE2	-8.89	113.71	122.60
1	b7	103	ASP	CA-CB-CG	-8.89	103.71	112.60
1	ga	229	ARG	CA-C-N	8.89	133.26	120.91
1	ga	229	ARG	C-N-CA	8.89	133.26	120.91
1	gn	134	ILE	CA-C-N	8.89	133.06	120.53
1	gn	134	ILE	C-N-CA	8.89	133.06	120.53
1	gU	179	GLN	OE1-CD-NE2	-8.89	113.71	122.60
1	1I	186	THR	CA-C-N	8.89	132.19	120.28
1	1I	186	THR	C-N-CA	8.89	132.19	120.28
1	je	226	HIS	CA-CB-CG	-8.89	104.91	113.80
1	kt	49	PRO	CA-C-N	8.89	131.99	120.44
1	kt	49	PRO	C-N-CA	8.89	131.99	120.44
1	kt	124	ILE	N-CA-C	-8.89	98.20	107.89
1	kv	163	ASP	O-C-N	8.89	131.22	122.07
1	5Z	48	THR	CA-C-O	-8.89	111.09	120.87
1	17	84	HIS	CA-CB-CG	-8.89	104.91	113.80
1	5l	26	VAL	CA-C-N	8.89	132.06	120.60
1	5l	26	VAL	C-N-CA	8.89	132.06	120.60
1	6h	100	ARG	NH1-CZ-NH2	-8.89	107.75	119.30
1	87	84	HIS	CA-C-O	8.89	126.30	119.46
1	dQ	230	VAL	N-CA-C	8.89	120.25	110.21
1	f6	220	GLY	CA-C-N	8.89	133.63	122.43
1	f6	220	GLY	C-N-CA	8.89	133.63	122.43
1	fx	59	VAL	N-CA-CB	8.89	121.70	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gb	76	GLU	N-CA-C	8.88	120.58	111.07
1	gl	43	LEU	N-CA-C	8.89	122.08	111.33
1	1K	171	THR	CA-C-N	8.89	132.55	120.38
1	1K	171	THR	C-N-CA	8.89	132.55	120.38
1	23	218	CYS	N-CA-CB	8.88	125.51	110.49
1	fi	74	ASN	CA-CB-CG	-8.89	103.71	112.60
1	3J	76	GLU	CA-C-N	8.88	132.55	120.38
1	3J	76	GLU	C-N-CA	8.88	132.55	120.38
1	3Q	143	ARG	N-CA-C	8.88	121.04	111.36
1	5p	162	ARG	O-C-N	-8.88	112.70	122.12
1	6a	68	MET	O-C-N	-8.88	112.70	122.12
1	7H	43	LEU	O-C-N	-8.88	111.83	122.22
1	7X	12	HIS	N-CA-C	8.88	123.29	109.96
1	8h	82	ARG	NE-CZ-NH2	-8.88	111.20	119.20
1	gL	64	ALA	N-CA-C	8.88	120.96	111.28
1	gc	117	TRP	CB-CG-CD1	-8.88	113.58	126.90
1	h3	36	VAL	CA-C-N	8.88	125.84	120.24
1	h3	36	VAL	C-N-CA	8.88	125.84	120.24
1	hE	43	LEU	CA-C-O	8.88	129.74	119.35
1	iX	169	TYR	N-CA-C	8.88	120.58	111.07
1	kT	111	LEU	O-C-N	-8.88	112.70	122.12
1	af	31	ALA	N-CA-C	8.88	121.77	111.11
1	hz	69	LEU	O-C-N	-8.88	112.71	122.12
1	jc	156	GLY	O-C-N	-8.88	112.89	121.77
1	ji	169	TYR	N-CA-C	8.88	120.96	111.28
1	lO	159	GLU	O-C-N	-8.88	114.54	121.47
1	3C	121	ASN	CA-C-O	-8.88	110.34	119.49
1	5R	162	ARG	N-CA-C	8.88	120.96	111.28
1	6I	103	ASP	O-C-N	8.88	131.22	122.07
1	9O	18	ARG	NE-CZ-NH2	-8.88	111.21	119.20
1	fu	44	SER	CA-C-N	8.88	132.53	120.54
1	jZ	37	ILE	N-CA-CB	8.88	116.09	110.50
1	kZ	29	GLU	N-CA-C	8.88	120.57	111.07
1	fl	214	MET	CA-C-O	-8.88	111.49	120.82
1	fu	44	SER	C-N-CA	8.88	132.53	120.54
1	2q	183	ASN	N-CA-CB	8.88	122.89	110.01
1	4K	171	THR	CA-C-N	8.88	132.55	120.38
1	4K	171	THR	C-N-CA	8.88	132.55	120.38
1	6g	32	PHE	CA-CB-CG	-8.88	104.92	113.80
1	7j	73	ILE	O-C-N	8.88	130.48	121.87
1	91	8	GLY	O-C-N	-8.88	116.52	123.27
1	9h	82	ARG	NE-CZ-NH2	-8.88	111.21	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aq	84	HIS	CE1-NE2-CD2	-8.88	100.12	109.00
1	fm	162	ARG	NE-CZ-NH2	-8.88	111.21	119.20
1	fz	198	CYS	CA-C-N	8.88	132.18	120.28
1	fz	198	CYS	C-N-CA	8.88	132.18	120.28
1	ax	53	ASN	CA-CB-CG	-8.88	103.72	112.60
1	bb	35	GLU	CA-C-O	8.88	130.29	119.10
1	hs	21	ASN	N-CA-C	8.88	120.57	111.07
1	2A	43	LEU	CA-C-O	8.88	130.13	120.10
1	2E	132	ARG	NH1-CZ-NH2	-8.88	107.76	119.30
1	3v	130	TYR	CA-C-N	8.88	132.18	120.28
1	3v	130	TYR	C-N-CA	8.88	132.18	120.28
1	4K	161	PHE	N-CA-C	8.88	120.57	111.07
1	5i	205	LEU	N-CA-C	8.88	120.57	111.07
1	g0	223	GLY	CA-C-N	8.88	128.53	119.56
1	4u	130	TYR	O-C-N	-8.88	112.71	122.12
1	5K	84	HIS	CB-CA-C	8.88	120.23	109.31
1	g0	223	GLY	C-N-CA	8.88	128.53	119.56
1	7m	84	HIS	CE1-NE2-CD2	-8.88	100.12	109.00
1	8J	167	ARG	NE-CZ-NH1	8.88	130.38	121.50
1	9w	106	GLY	O-C-N	-8.88	112.64	122.50
1	bC	50	GLN	N-CA-C	8.88	122.07	111.33
1	hb	173	ARG	NE-CZ-NH1	8.88	130.38	121.50
1	hW	44	SER	CB-CA-C	-8.88	96.64	111.02
1	ip	97	ARG	N-CA-C	8.88	122.42	110.35
1	iM	103	ASP	CA-CB-CG	-8.88	103.72	112.60
1	2K	126	VAL	N-CA-C	8.88	119.67	110.62
1	4l	77	ALA	N-CA-C	8.88	121.92	111.71
1	5H	62	HIS	CB-CG-ND1	-8.88	109.39	122.70
1	8B	176	GLN	CB-CG-CD	8.88	127.69	112.60
1	ca	173	ARG	NE-CZ-NH2	-8.88	111.21	119.20
1	a0	181	VAL	N-CA-C	8.87	119.68	110.36
1	bD	207	PRO	CA-C-O	-8.88	114.74	121.31
1	dQ	162	ARG	N-CA-C	8.88	121.92	111.71
1	dF	66	MET	O-C-N	-8.87	112.71	122.12
1	1w	162	ARG	NE-CZ-NH2	8.88	127.19	119.20
1	gg	112	GLN	O-C-N	-8.87	112.72	122.12
1	hG	213	GLU	O-C-N	-8.87	112.86	122.09
1	jx	201	ILE	N-CA-C	8.87	118.94	110.42
1	52	16	SER	CA-C-O	-8.87	112.63	119.46
1	69	62	HIS	CA-C-N	8.87	132.17	120.28
1	1Y	215	MET	N-CA-C	8.87	122.06	111.33
1	kl	161	PHE	CA-CB-CG	8.87	122.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	167	ARG	NH1-CZ-NH2	-8.87	107.77	119.30
1	lH	136	LEU	CA-C-N	8.87	129.61	119.94
1	lH	136	LEU	C-N-CA	8.87	129.61	119.94
1	2N	26	VAL	CA-C-N	8.87	133.02	120.42
1	2N	26	VAL	C-N-CA	8.87	133.02	120.42
1	3q	97	ARG	NE-CZ-NH2	-8.87	111.21	119.20
1	4a	51	ASP	CA-C-O	8.87	129.82	120.42
1	5N	108	THR	CA-CB-OG1	8.87	122.91	109.60
1	69	62	HIS	C-N-CA	8.87	132.17	120.28
1	7V	142	VAL	CA-C-O	8.87	130.57	121.17
1	9f	135	ILE	CA-C-N	8.87	132.17	120.28
1	9f	135	ILE	C-N-CA	8.87	132.17	120.28
1	e3	77	ALA	CA-C-O	8.87	129.96	120.55
1	6N	205	LEU	CA-C-O	8.87	130.31	121.00
1	9z	162	ARG	NE-CZ-NH1	8.87	130.37	121.50
1	a3	100	ARG	CA-C-N	8.87	129.79	119.94
1	a3	100	ARG	C-N-CA	8.87	129.79	119.94
1	15	140	LYS	N-CA-C	8.87	121.76	111.11
1	16	125	PRO	CA-C-O	-8.87	114.55	121.38
1	bk	195	ASN	OD1-CG-ND2	-8.87	113.73	122.60
1	bs	1	PRO	CA-C-N	8.87	134.11	122.93
1	bs	1	PRO	C-N-CA	8.87	134.11	122.93
1	ju	7	GLN	OE1-CD-NE2	-8.87	113.73	122.60
1	ju	65	ALA	CA-C-O	8.87	130.13	120.82
1	jy	18	ARG	N-CA-C	-8.87	100.58	111.40
1	aG	87	HIS	CE1-NE2-CD2	-8.87	100.13	109.00
1	hc	19	THR	CA-C-N	8.87	132.16	120.28
1	hc	19	THR	C-N-CA	8.87	132.16	120.28
1	hB	134	ILE	N-CA-C	8.87	119.67	110.62
1	25	162	ARG	N-CA-C	8.87	121.75	111.11
1	lQ	142	VAL	O-C-N	-8.87	113.07	121.94
1	54	133	TRP	N-CA-C	8.87	122.06	111.33
1	11	116	GLY	N-CA-C	8.87	123.37	112.73
1	2c	211	LEU	CA-C-N	8.87	131.97	120.44
1	2c	211	LEU	C-N-CA	8.87	131.97	120.44
1	2M	193	ASN	CA-CB-CG	8.87	121.47	112.60
1	53	224	PRO	CA-C-N	8.87	128.76	120.34
1	53	224	PRO	C-N-CA	8.87	128.76	120.34
1	5z	183	ASN	CA-CB-CG	-8.87	103.73	112.60
1	7w	82	ARG	N-CA-C	8.87	120.56	111.07
1	84	162	ARG	NE-CZ-NH1	8.87	130.37	121.50
1	8D	22	ALA	CA-C-N	8.87	131.97	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8D	22	ALA	C-N-CA	8.87	131.97	120.44
1	97	229	ARG	NE-CZ-NH1	8.87	130.37	121.50
1	av	162	ARG	NH1-CZ-NH2	-8.87	107.77	119.30
1	cS	130	TYR	N-CA-C	8.87	120.94	111.28
1	de	62	HIS	ND1-CG-CD2	8.87	114.97	106.10
1	e0	36	VAL	CA-C-N	8.87	125.83	120.24
1	e0	36	VAL	C-N-CA	8.87	125.83	120.24
1	o	39	MET	N-CA-C	8.87	121.75	111.11
1	r	96	MET	N-CA-C	8.87	123.17	109.96
1	gQ	116	GLY	CA-C-N	8.87	132.16	120.28
1	gQ	116	GLY	C-N-CA	8.87	132.16	120.28
1	hU	124	ILE	CA-C-O	8.87	124.55	119.94
1	4C	55	MET	N-CA-C	8.87	120.94	111.28
1	95	139	ASN	OD1-CG-ND2	-8.87	113.73	122.60
1	g2	182	LYS	CA-C-N	8.87	131.97	120.44
1	h9	155	GLN	N-CA-C	8.86	122.74	110.24
1	ho	62	HIS	ND1-CG-CD2	8.87	114.97	106.10
1	iE	12	HIS	CA-CB-CG	8.87	122.67	113.80
1	18	75	GLU	N-CA-C	8.87	120.94	111.28
1	lN	65	ALA	CA-C-N	8.86	131.96	120.44
1	lN	65	ALA	C-N-CA	8.86	131.96	120.44
1	3M	201	ILE	N-CA-C	8.87	119.66	110.62
1	4v	154	ARG	O-C-N	-8.86	113.31	123.33
1	54	161	PHE	O-C-N	-8.87	112.94	122.07
1	59	167	ARG	CA-C-N	8.87	131.96	120.44
1	59	167	ARG	C-N-CA	8.87	131.96	120.44
1	cI	20	LEU	CA-C-N	8.87	131.97	120.44
1	cI	20	LEU	C-N-CA	8.87	131.97	120.44
1	dU	18	ARG	NE-CZ-NH1	8.87	130.37	121.50
1	fi	39	MET	N-CA-CB	8.87	123.15	110.12
1	g2	182	LYS	C-N-CA	8.87	131.97	120.44
1	1s	87	HIS	CE1-NE2-CD2	-8.86	100.14	109.00
1	gg	167	ARG	NE-CZ-NH2	-8.86	111.22	119.20
1	bj	140	LYS	N-CA-C	8.86	120.94	111.28
1	io	167	ARG	NE-CZ-NH2	-8.86	111.22	119.20
1	jv	55	MET	N-CA-C	8.86	121.02	111.36
1	6A	162	ARG	CA-C-N	8.86	131.96	120.44
1	6A	162	ARG	C-N-CA	8.86	131.96	120.44
1	9b	184	TRP	N-CA-C	8.86	120.94	111.28
1	aL	178	SER	O-C-N	-8.86	111.91	122.81
1	b6	159	GLU	N-CA-C	8.86	120.82	109.65
1	cG	229	ARG	NE-CZ-NH2	8.86	127.18	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	132	ARG	NE-CZ-NH1	8.86	130.36	121.50
1	cX	62	HIS	CA-C-N	8.86	134.78	120.60
1	cX	62	HIS	C-N-CA	8.86	134.78	120.60
1	fv	226	HIS	O-C-N	-8.86	111.26	122.34
1	fF	5	ASN	CA-CB-CG	8.86	121.46	112.60
1	g2	205	LEU	CA-C-O	8.86	130.20	120.63
1	iC	217	ALA	N-CA-C	8.86	122.04	110.43
1	jI	82	ARG	CA-C-O	8.86	129.81	120.42
1	ku	106	GLY	CA-C-N	8.86	132.87	120.29
1	ku	106	GLY	C-N-CA	8.86	132.87	120.29
1	5k	55	MET	N-CA-C	8.86	120.55	111.07
1	gV	195	ASN	N-CA-C	8.86	120.47	109.57
1	jn	57	ASN	OD1-CG-ND2	-8.86	113.74	122.60
1	2C	100	ARG	NH1-CZ-NH2	-8.86	107.78	119.30
1	6h	229	ARG	NE-CZ-NH1	8.86	130.36	121.50
1	9S	172	LEU	CA-C-N	8.86	132.15	120.28
1	9S	172	LEU	C-N-CA	8.86	132.15	120.28
1	aT	139	ASN	CA-CB-CG	8.86	121.46	112.60
1	bB	73	ILE	N-CA-C	8.86	119.66	110.62
1	6H	33	SER	N-CA-C	-8.86	100.25	108.22
1	7q	19	THR	N-CA-C	8.86	121.02	111.36
1	9q	37	ILE	CA-C-O	-8.86	111.32	118.85
1	bx	169	TYR	CA-C-N	8.86	131.96	120.44
1	bx	169	TYR	C-N-CA	8.86	131.96	120.44
1	d0	135	ILE	CA-C-O	8.86	130.16	120.95
1	f	32	PHE	CA-C-O	8.86	130.13	120.92
1	W	103	ASP	CA-CB-CG	8.86	121.46	112.60
1	jk	82	ARG	NE-CZ-NH2	-8.86	111.23	119.20
1	29	95	GLN	OE1-CD-NE2	-8.86	113.74	122.60
1	4r	143	ARG	NE-CZ-NH1	8.86	130.36	121.50
1	5L	78	ALA	CA-C-O	-8.86	111.16	120.55
1	65	229	ARG	NE-CZ-NH2	8.86	127.17	119.20
1	8S	150	ILE	N-CA-C	8.86	119.65	110.62
1	a9	195	ASN	CA-CB-CG	8.86	121.46	112.60
1	bj	179	GLN	N-CA-C	8.86	121.89	111.71
1	gf	97	ARG	NE-CZ-NH2	-8.85	111.23	119.20
1	gS	75	GLU	N-CA-C	8.85	120.54	111.07
1	ir	196	PRO	CA-C-N	8.85	131.95	120.44
1	ir	196	PRO	C-N-CA	8.85	131.95	120.44
1	iU	195	ASN	CA-C-N	8.85	130.91	119.84
1	iU	195	ASN	C-N-CA	8.85	130.91	119.84
1	jB	92	GLU	CA-C-O	-8.85	110.69	120.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jZ	51	ASP	CA-C-N	8.85	131.95	120.44
1	jZ	51	ASP	C-N-CA	8.85	131.95	120.44
1	5C	20	LEU	N-CA-C	8.85	121.01	111.36
1	fa	173	ARG	N-CA-C	8.85	120.93	111.28
1	1J	11	VAL	O-C-N	-8.85	113.64	123.20
1	iK	224	PRO	N-CA-C	8.85	126.94	113.75
1	km	155	GLN	OE1-CD-NE2	-8.85	113.75	122.60
1	2r	203	LYS	O-C-N	-8.85	112.74	122.12
1	4r	217	ALA	N-CA-C	8.85	122.74	110.35
1	4z	140	LYS	N-CA-C	8.85	121.73	111.11
1	4X	72	THR	O-C-N	-8.85	112.06	122.15
1	57	3	VAL	CA-CB-CG2	-8.85	95.35	110.40
1	7h	73	ILE	CA-C-N	8.85	132.14	120.28
1	7h	73	ILE	C-N-CA	8.85	132.14	120.28
1	7P	149	SER	O-C-N	-8.85	112.92	123.10
1	ab	34	PRO	O-C-N	8.85	134.59	122.64
1	ac	70	LYS	N-CA-C	8.85	121.73	111.11
1	as	53	ASN	CA-C-O	8.85	129.93	120.55
1	aL	187	GLU	N-CA-C	8.85	120.93	111.28
1	cl	190	LEU	CA-C-O	8.85	130.37	120.90
1	fH	115	ILE	O-C-N	-8.85	113.28	121.87
1	i	162	ARG	NE-CZ-NH2	-8.85	111.23	119.20
1	fL	170	LYS	O-C-N	-8.85	112.74	122.12
1	fZ	13	GLN	OE1-CD-NE2	8.85	131.45	122.60
1	m	25	LYS	N-CA-C	8.85	122.04	111.33
1	gI	128	GLU	N-CA-C	8.85	121.01	111.36
1	iW	80	TRP	CA-C-N	8.85	132.14	120.28
1	iW	80	TRP	C-N-CA	8.85	132.14	120.28
1	jz	156	GLY	O-C-N	-8.85	112.92	121.77
1	jO	92	GLU	CB-CA-C	8.85	122.38	109.11
1	2b	111	LEU	CA-C-N	8.85	131.94	120.44
1	2b	111	LEU	C-N-CA	8.85	131.94	120.44
1	k4	24	VAL	N-CA-C	8.85	118.91	110.42
1	2o	22	ALA	CA-C-O	8.85	129.80	120.42
1	3T	229	ARG	NE-CZ-NH1	8.85	130.35	121.50
1	5E	165	VAL	N-CA-C	8.85	119.65	110.62
1	5G	165	VAL	CA-C-O	-8.85	111.10	120.57
1	6F	230	VAL	CA-C-O	8.85	127.36	118.96
1	8q	70	LYS	N-CA-C	8.85	120.93	111.28
1	a1	68	MET	CA-C-N	8.85	131.94	120.44
1	a1	68	MET	C-N-CA	8.85	131.94	120.44
1	bg	206	GLY	O-C-N	-8.85	112.92	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	128	GLU	CA-C-N	8.85	131.71	120.56
1	cd	128	GLU	C-N-CA	8.85	131.71	120.56
1	1z	21	ASN	CB-CA-C	-8.85	95.81	110.85
1	fX	57	ASN	N-CA-C	8.85	120.54	111.07
1	am	112	GLN	N-CA-C	8.85	120.54	111.07
1	dM	135	ILE	N-CA-C	8.85	119.64	110.62
1	ei	12	HIS	ND1-CE1-NE2	8.85	117.25	108.40
1	1y	9	GLN	N-CA-C	8.85	123.33	108.20
1	jE	12	HIS	CE1-NE2-CD2	-8.85	100.15	109.00
1	kA	63	GLN	CA-C-N	8.85	131.94	120.44
1	kA	63	GLN	C-N-CA	8.85	131.94	120.44
1	lG	20	LEU	N-CA-C	8.85	120.69	111.14
1	3l	28	GLU	N-CA-C	8.85	121.88	111.71
1	44	185	MET	N-CA-C	8.85	120.92	111.28
1	5N	12	HIS	CE1-NE2-CD2	-8.85	100.15	109.00
1	be	5	ASN	CB-CA-C	-8.85	99.17	111.73
1	hf	184	TRP	O-C-N	-8.85	112.74	122.12
1	hP	36	VAL	CA-C-N	8.85	127.41	120.33
1	hP	36	VAL	C-N-CA	8.85	127.41	120.33
1	27	89	GLY	O-C-N	-8.85	112.92	121.77
1	2B	203	LYS	CA-C-N	8.85	132.13	120.28
1	2B	203	LYS	C-N-CA	8.85	132.13	120.28
1	2O	71	GLU	CA-C-N	8.85	131.94	120.44
1	2O	71	GLU	C-N-CA	8.85	131.94	120.44
1	5T	110	THR	CA-C-N	8.85	132.48	120.54
1	5T	110	THR	C-N-CA	8.85	132.48	120.54
1	8j	203	LYS	N-CA-C	8.85	120.92	111.28
1	bJ	159	GLU	CA-C-N	8.85	128.98	120.31
1	bJ	159	GLU	C-N-CA	8.85	128.98	120.31
1	dm	182	LYS	N-CA-C	8.85	122.03	111.33
1	fm	188	THR	CA-C-N	8.85	132.47	120.44
1	fm	188	THR	C-N-CA	8.85	132.47	120.44
1	w	40	PHE	CA-CB-CG	8.85	122.64	113.80
1	gl	72	THR	N-CA-C	8.84	120.53	111.07
1	hn	174	ALA	N-CA-C	8.84	120.92	111.28
1	ig	154	ARG	NE-CZ-NH1	8.84	130.34	121.50
1	lr	79	GLU	CA-C-N	8.84	132.13	120.28
1	lr	79	GLU	C-N-CA	8.84	132.13	120.28
1	7b	75	GLU	N-CA-C	8.84	120.92	111.28
1	7u	210	THR	O-C-N	-8.84	112.97	122.96
1	28	26	VAL	CA-C-N	8.84	132.01	120.60
1	28	26	VAL	C-N-CA	8.84	132.01	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2U	181	VAL	N-CA-CB	8.84	120.89	110.55
1	3R	70	LYS	CA-C-N	8.84	132.13	120.28
1	3R	70	LYS	C-N-CA	8.84	132.13	120.28
1	52	35	GLU	CA-C-N	8.84	132.57	120.46
1	52	35	GLU	C-N-CA	8.84	132.57	120.46
1	6m	170	LYS	CA-C-N	8.84	131.94	120.44
1	6m	170	LYS	C-N-CA	8.84	131.94	120.44
1	17	166	ASP	CA-C-N	8.84	131.94	120.44
1	17	166	ASP	C-N-CA	8.84	131.94	120.44
1	fD	23	TRP	CA-C-O	-8.84	111.53	120.82
1	1B	139	ASN	N-CA-CB	8.84	123.12	110.12
1	gV	162	ARG	NE-CZ-NH2	-8.84	111.24	119.20
1	3K	124	ILE	O-C-N	-8.84	114.56	121.46
1	55	18	ARG	CA-C-N	8.84	131.93	120.44
1	hl	185	MET	N-CA-C	8.84	120.91	111.28
1	1S	97	ARG	NE-CZ-NH1	8.84	130.34	121.50
1	kb	28	GLU	N-CA-C	8.84	121.00	111.36
1	la	166	ASP	CA-CB-CG	8.84	121.44	112.60
1	lu	20	LEU	CA-C-N	8.84	132.49	120.38
1	lu	20	LEU	C-N-CA	8.84	132.49	120.38
1	lG	182	LYS	N-CA-C	8.84	120.92	111.28
1	2n	135	ILE	N-CA-C	8.84	119.64	110.36
1	3V	227	LYS	N-CA-C	8.84	122.58	109.59
1	55	18	ARG	C-N-CA	8.84	131.93	120.44
1	5Q	213	GLU	CA-C-N	8.84	132.12	120.28
1	5Q	213	GLU	C-N-CA	8.84	132.12	120.28
1	63	101	GLY	CA-C-O	8.84	129.86	120.75
1	8h	166	ASP	CA-C-N	8.84	132.13	120.28
1	8h	166	ASP	C-N-CA	8.84	132.13	120.28
1	9F	124	ILE	O-C-N	-8.84	115.80	121.37
1	bk	166	ASP	CA-CB-CG	8.84	121.44	112.60
1	1B	54	THR	CA-C-N	8.84	132.32	120.65
1	1B	54	THR	C-N-CA	8.84	132.32	120.65
1	a	76	GLU	N-CA-C	8.84	120.92	111.28
1	io	195	ASN	O-C-N	-8.84	113.43	121.30
1	jF	76	GLU	N-CA-C	8.84	120.53	111.07
1	ki	62	HIS	CA-CB-CG	-8.84	104.96	113.80
1	lz	126	VAL	N-CA-C	8.84	119.64	110.72
1	47	23	TRP	CA-C-O	-8.84	111.18	120.55
1	4Q	161	PHE	CA-CB-CG	-8.84	104.96	113.80
1	5P	38	PRO	CA-C-N	8.84	132.47	120.54
1	5P	38	PRO	C-N-CA	8.84	132.47	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	32	PHE	CA-CB-CG	-8.84	104.96	113.80
1	9p	179	GLN	CA-C-N	8.84	131.93	120.44
1	9p	179	GLN	C-N-CA	8.84	131.93	120.44
1	dG	145	TYR	CA-C-N	8.84	132.67	120.65
1	dG	145	TYR	C-N-CA	8.84	132.67	120.65
1	fi	169	TYR	N-CA-C	8.84	120.91	111.28
1	0	164	TYR	CA-C-O	8.84	130.10	120.82
1	iF	102	SER	N-CA-C	8.84	120.91	111.28
1	iR	173	ARG	NE-CZ-NH2	-8.84	111.25	119.20
1	l7	210	THR	O-C-N	-8.84	113.04	122.94
1	c7	134	ILE	O-C-N	-8.84	113.30	121.87
1	cT	159	GLU	CA-C-O	-8.84	111.44	119.75
1	dc	179	GLN	CA-C-N	8.84	132.12	120.28
1	dc	179	GLN	C-N-CA	8.84	132.12	120.28
1	eN	117	TRP	O-C-N	-8.84	112.75	122.12
1	fP	139	ASN	CA-CB-CG	8.84	121.44	112.60
1	g4	20	LEU	CA-C-N	8.84	131.93	120.44
1	g4	20	LEU	C-N-CA	8.84	131.93	120.44
1	A	117	TRP	N-CA-C	8.84	120.68	111.14
1	k5	25	LYS	N-CA-C	8.83	120.52	111.07
1	kA	7	GLN	N-CA-C	8.83	120.52	111.07
1	ha	75	GLU	N-CA-C	8.83	120.52	111.07
1	hb	21	ASN	CA-CB-CG	8.83	121.43	112.60
1	1R	162	ARG	NE-CZ-NH1	8.83	130.33	121.50
1	j8	81	ASP	CA-CB-CG	8.83	121.43	112.60
1	jk	167	ARG	NE-CZ-NH2	-8.83	111.25	119.20
1	2s	104	ILE	N-CA-CB	8.83	120.31	110.51
1	lL	173	ARG	NE-CZ-NH1	8.83	130.33	121.50
1	36	21	ASN	OD1-CG-ND2	-8.83	113.77	122.60
1	4J	33	SER	O-C-N	-8.83	112.81	121.56
1	7K	127	GLY	CA-C-N	8.83	131.93	120.44
1	K	112	GLN	OE1-CD-NE2	-8.83	113.77	122.60
1	4J	146	SER	CA-C-O	-8.83	112.29	119.71
1	5l	154	ARG	NE-CZ-NH2	8.83	127.15	119.20
1	5O	101	GLY	CA-C-N	8.83	132.12	120.28
1	5O	101	GLY	C-N-CA	8.83	132.12	120.28
1	7K	127	GLY	C-N-CA	8.83	131.93	120.44
1	7r	161	PHE	CA-CB-CG	-8.83	104.97	113.80
1	9l	155	GLN	OE1-CD-NE2	-8.83	113.77	122.60
1	a5	166	ASP	N-CA-CB	-8.83	97.09	110.16
1	at	189	LEU	CA-C-O	8.83	129.60	119.27
1	ac	206	GLY	CA-C-N	8.83	128.91	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ac	206	GLY	C-N-CA	8.83	128.91	119.90
1	am	166	ASP	CA-CB-CG	8.83	121.43	112.60
1	br	37	ILE	N-CA-C	8.83	122.95	112.35
1	c1	92	GLU	O-C-N	-8.83	112.30	120.51
1	dV	75	GLU	O-C-N	-8.83	112.97	122.07
1	ej	154	ARG	NE-CZ-NH2	-8.83	111.25	119.20
1	hb	156	GLY	O-C-N	-8.83	112.94	121.77
1	iT	168	PHE	N-CA-C	8.83	120.52	111.07
1	kx	37	ILE	CA-C-N	8.83	128.47	118.85
1	kx	37	ILE	C-N-CA	8.83	128.47	118.85
1	2g	96	MET	O-C-N	-8.83	112.38	123.24
1	4a	84	HIS	CE1-NE2-CD2	-8.83	100.17	109.00
1	7r	48	THR	CA-C-N	8.83	130.88	119.84
1	7r	48	THR	C-N-CA	8.83	130.88	119.84
1	7x	202	LEU	O-C-N	-8.83	112.97	122.07
1	96	52	LEU	CA-C-N	8.83	132.11	120.28
1	96	52	LEU	C-N-CA	8.83	132.11	120.28
1	9b	140	LYS	N-CA-C	8.83	121.70	111.11
1	9f	173	ARG	CA-C-N	8.83	132.83	120.29
1	9f	173	ARG	C-N-CA	8.83	132.83	120.29
1	9m	114	GLN	N-CA-C	8.83	120.91	111.28
1	aO	199	LYS	N-CA-CB	8.83	122.81	110.01
1	ba	117	TRP	N-CA-C	8.83	120.98	111.36
1	e6	95	GLN	OE1-CD-NE2	-8.83	113.77	122.60
1	es	62	HIS	N-CA-C	8.83	123.31	111.30
1	ey	199	LYS	N-CA-C	8.83	120.90	111.28
1	fp	195	ASN	CA-CB-CG	-8.83	103.77	112.60
1	je	57	ASN	OD1-CG-ND2	-8.83	113.77	122.60
1	ht	128	GLU	N-CA-C	8.83	120.51	111.07
1	hL	20	LEU	N-CA-C	8.83	120.52	111.07
1	is	42	ALA	CA-C-N	8.83	132.11	120.28
1	is	42	ALA	C-N-CA	8.83	132.11	120.28
1	jB	16	SER	N-CA-C	8.83	121.04	109.83
1	jH	57	ASN	CA-CB-CG	8.83	121.43	112.60
1	jN	115	ILE	CA-C-N	8.83	129.78	119.98
1	jN	115	ILE	C-N-CA	8.83	129.78	119.98
1	kx	170	LYS	CA-C-O	8.83	130.09	120.82
1	lJ	135	ILE	N-CA-C	8.83	119.62	110.62
1	3X	70	LYS	N-CA-C	8.83	120.52	111.07
1	47	154	ARG	NE-CZ-NH1	8.83	130.33	121.50
1	5w	165	VAL	CA-C-N	8.83	131.92	120.44
1	7I	142	VAL	N-CA-C	8.83	119.62	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4c	100	ARG	CA-C-N	8.83	129.91	120.03
1	4c	100	ARG	C-N-CA	8.83	129.91	120.03
1	4F	126	VAL	N-CA-C	8.83	119.64	110.72
1	5w	165	VAL	C-N-CA	8.83	131.92	120.44
1	6k	143	ARG	N-CA-C	8.83	120.52	111.07
1	6p	122	PRO	CA-C-N	8.83	128.91	119.90
1	6p	122	PRO	C-N-CA	8.83	128.91	119.90
1	6w	56	LEU	CA-C-N	8.83	132.11	120.28
1	6w	56	LEU	C-N-CA	8.83	132.11	120.28
1	6z	142	VAL	CA-C-O	8.83	130.53	121.17
1	aK	204	ALA	CA-C-N	8.83	132.11	120.28
1	aK	204	ALA	C-N-CA	8.83	132.11	120.28
1	f7	126	VAL	N-CA-C	8.83	118.89	110.42
1	hF	97	ARG	NE-CZ-NH2	-8.82	111.26	119.20
1	ia	179	GLN	N-CA-C	8.82	122.01	111.33
1	ks	37	ILE	CA-C-O	-8.82	112.78	118.69
1	2i	91	ILE	O-C-N	-8.82	113.13	122.57
1	gk	140	LYS	N-CA-C	8.82	120.90	111.28
1	3u	219	GLN	OE1-CD-NE2	-8.82	113.78	122.60
1	4i	113	GLU	CA-C-O	8.82	129.90	120.55
1	6F	29	GLU	N-CA-C	8.82	120.51	111.07
1	6S	28	GLU	N-CA-C	8.82	122.01	111.33
1	6Z	122	PRO	CA-C-N	8.82	130.38	120.85
1	6Z	122	PRO	C-N-CA	8.82	130.38	120.85
1	dY	193	ASN	CA-CB-CG	-8.82	103.78	112.60
1	73	154	ARG	NE-CZ-NH2	-8.82	111.26	119.20
1	8W	139	ASN	OD1-CG-ND2	8.82	131.42	122.60
1	Y	92	GLU	O-C-N	-8.82	111.55	121.43
1	a1	57	ASN	O-C-N	-8.82	109.55	122.43
1	bh	198	CYS	N-CA-C	8.82	120.90	111.28
1	c5	12	HIS	CA-CB-CG	8.82	122.62	113.80
1	fp	79	GLU	O-C-N	-8.82	112.77	122.12
1	hT	66	MET	N-CA-C	8.82	120.90	111.28
1	ig	53	ASN	CA-CB-CG	-8.82	103.78	112.60
1	iP	31	ALA	N-CA-C	8.82	122.35	110.35
1	j8	162	ARG	NE-CZ-NH2	8.82	127.14	119.20
1	jb	131	LYS	O-C-N	-8.82	112.77	122.12
1	kE	117	TRP	O-C-N	8.82	131.47	122.12
1	2U	72	THR	N-CA-CB	8.82	122.86	110.07
1	fJ	27	VAL	N-CA-C	8.82	118.89	110.42
1	k5	126	VAL	N-CA-C	8.82	119.61	110.62
1	lp	110	THR	CA-C-N	8.82	132.45	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lp	110	THR	C-N-CA	8.82	132.45	120.54
1	2h	199	LYS	N-CA-C	8.82	120.51	111.07
1	2O	82	ARG	N-CA-C	8.82	123.30	112.54
1	3s	204	ALA	O-C-N	-8.82	112.77	122.12
1	3t	77	ALA	N-CA-C	8.82	121.85	111.71
1	3F	142	VAL	O-C-N	-8.82	113.12	121.94
1	43	212	GLU	O-C-N	-8.82	112.77	122.12
1	82	21	ASN	CA-CB-CG	8.82	121.42	112.60
1	bd	116	GLY	N-CA-C	8.82	123.31	112.64
1	db	56	LEU	CA-C-N	8.82	132.98	120.28
1	db	56	LEU	C-N-CA	8.82	132.98	120.28
1	1q	217	ALA	N-CA-C	8.82	121.99	110.43
1	7Q	75	GLU	N-CA-C	8.82	122.54	111.69
1	bH	131	LYS	N-CA-C	8.82	121.69	111.11
1	dx	211	LEU	N-CA-C	8.82	123.04	111.75
1	eu	30	LYS	CA-C-N	8.82	138.39	121.54
1	eu	30	LYS	C-N-CA	8.82	138.39	121.54
1	1v	146	SER	N-CA-C	8.82	120.84	109.64
1	h1	87	HIS	CA-CB-CG	-8.82	104.98	113.80
1	hs	82	ARG	NE-CZ-NH2	-8.82	111.26	119.20
1	jy	53	ASN	OD1-CG-ND2	-8.82	113.78	122.60
1	3H	145	TYR	N-CA-C	8.82	122.69	110.35
1	4Z	127	GLY	CA-C-N	8.82	132.43	120.44
1	4Z	127	GLY	C-N-CA	8.82	132.43	120.44
1	7h	87	HIS	CE1-NE2-CD2	-8.82	100.18	109.00
1	8P	169	TYR	CA-C-N	8.82	132.29	120.65
1	8P	169	TYR	C-N-CA	8.82	132.29	120.65
1	bR	138	LEU	N-CA-C	8.82	120.89	111.28
1	c5	166	ASP	CA-C-N	8.82	132.09	120.28
1	c5	166	ASP	C-N-CA	8.82	132.09	120.28
1	eC	15	ILE	N-CA-C	8.82	121.27	109.37
1	c	80	TRP	N-CA-C	8.82	120.50	111.07
1	gb	74	ASN	O-C-N	-8.81	112.10	122.15
1	2s	192	GLN	CB-CG-CD	8.81	127.59	112.60
1	2z	98	GLU	CA-C-N	8.81	128.89	119.90
1	2z	98	GLU	C-N-CA	8.81	128.89	119.90
1	gC	83	LEU	N-CA-C	8.81	120.97	111.36
1	jV	84	HIS	ND1-CE1-NE2	8.81	117.21	108.40
1	k2	106	GLY	CA-C-N	8.81	133.04	120.79
1	k2	106	GLY	C-N-CA	8.81	133.04	120.79
1	lQ	159	GLU	O-C-N	-8.81	113.46	121.30
1	2A	187	GLU	CA-C-O	-8.81	111.62	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3q	209	ALA	N-CA-C	8.81	121.70	110.24
1	3r	33	SER	O-C-N	-8.81	115.22	121.65
1	4D	18	ARG	O-C-N	-8.81	112.78	122.12
1	5K	43	LEU	O-C-N	-8.81	111.43	122.27
1	aF	142	VAL	O-C-N	-8.81	113.25	121.89
1	ct	161	PHE	CA-CB-CG	8.81	122.61	113.80
1	aK	17	PRO	CA-C-N	8.81	132.09	120.28
1	aK	17	PRO	C-N-CA	8.81	132.09	120.28
1	bp	169	TYR	N-CA-C	8.81	120.89	111.28
1	cn	41	SER	CA-C-N	8.81	132.44	120.54
1	cn	41	SER	C-N-CA	8.81	132.44	120.54
1	cX	9	GLN	O-C-N	-8.81	112.09	122.93
1	et	162	ARG	NH1-CZ-NH2	-8.81	107.84	119.30
1	n	153	ILE	O-C-N	-8.81	112.96	122.83
1	i6	18	ARG	CA-C-N	8.81	131.90	120.44
1	i6	18	ARG	C-N-CA	8.81	131.90	120.44
1	k4	3	VAL	N-CA-C	8.81	120.81	108.12
1	kx	26	VAL	N-CA-CB	8.81	120.29	110.51
1	58	22	ALA	CA-C-N	8.81	132.44	120.54
1	58	22	ALA	C-N-CA	8.81	132.44	120.54
1	cf	64	ALA	N-CA-C	8.81	120.97	111.36
1	dn	67	GLN	OE1-CD-NE2	-8.81	113.79	122.60
1	2d	132	ARG	NE-CZ-NH1	-8.81	112.69	121.50
1	48	197	ASP	CA-CB-CG	8.81	121.41	112.60
1	4s	7	GLN	CA-C-N	8.81	138.68	121.41
1	4s	7	GLN	C-N-CA	8.81	138.68	121.41
1	4I	126	VAL	N-CA-C	8.81	120.66	110.62
1	5F	32	PHE	CA-CB-CG	-8.81	104.99	113.80
1	7s	197	ASP	N-CA-C	8.81	120.50	111.07
1	aR	185	MET	N-CA-C	8.81	120.50	111.07
1	1q	26	VAL	N-CA-C	8.81	119.61	110.62
1	N	159	GLU	CA-C-O	-8.81	112.68	119.46
1	6	167	ARG	N-CA-C	8.81	120.96	111.36
1	gH	126	VAL	N-CA-C	8.81	119.60	110.62
1	kT	92	GLU	N-CA-C	8.81	119.73	109.60
1	ld	48	THR	CA-C-O	-8.81	111.10	120.70
1	2t	150	ILE	O-C-N	-8.81	113.00	121.90
1	6R	65	ALA	N-CA-C	8.81	120.57	110.97
1	7Z	3	VAL	O-C-N	-8.81	113.27	123.05
1	8I	124	ILE	N-CA-C	-8.81	99.43	108.15
1	av	37	ILE	CA-C-O	-8.81	112.02	118.71
1	cB	179	GLN	CA-C-N	8.81	132.45	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cB	179	GLN	C-N-CA	8.81	132.45	120.38
1	dx	187	GLU	N-CA-C	8.81	120.96	111.36
1	fw	33	SER	O-C-N	-8.81	113.69	121.71
1	2j	154	ARG	NE-CZ-NH1	8.81	130.31	121.50
1	i7	16	SER	N-CA-C	8.80	120.40	109.57
1	if	211	LEU	CA-C-O	8.80	130.21	119.38
1	k7	151	LEU	CA-C-O	8.80	130.21	119.38
1	2L	23	TRP	CZ3-CH2-CZ2	-8.80	110.05	121.50
1	3g	125	PRO	N-CA-CB	-8.81	96.91	102.81
1	3Q	137	GLY	CA-C-N	8.80	131.89	120.44
1	3Q	137	GLY	C-N-CA	8.80	131.89	120.44
1	54	173	ARG	NE-CZ-NH1	8.81	130.31	121.50
1	6x	181	VAL	CA-C-N	8.81	132.08	120.28
1	6x	181	VAL	C-N-CA	8.81	132.08	120.28
1	aA	124	ILE	N-CA-CB	8.81	120.43	111.36
1	b5	115	ILE	CA-C-N	8.81	129.69	120.00
1	b5	115	ILE	C-N-CA	8.81	129.69	120.00
1	17	67	GLN	N-CA-C	8.81	120.88	111.28
1	cu	196	PRO	CA-C-N	8.81	132.08	120.28
1	cu	196	PRO	C-N-CA	8.81	132.08	120.28
1	fl	169	TYR	N-CA-C	8.81	120.88	111.28
1	kO	85	PRO	N-CA-CB	8.80	108.64	102.65
1	lC	199	LYS	N-CA-C	8.80	121.83	111.71
1	47	5	ASN	CA-CB-CG	-8.80	103.80	112.60
1	4o	203	LYS	CA-C-N	8.80	134.69	120.60
1	4o	203	LYS	C-N-CA	8.80	134.69	120.60
1	5i	64	ALA	N-CA-C	8.80	120.49	111.07
1	61	77	ALA	N-CA-C	8.80	121.67	111.11
1	6W	36	VAL	O-C-N	-8.80	111.85	121.80
1	9y	113	GLU	CA-C-N	8.80	132.44	120.38
1	9y	113	GLU	C-N-CA	8.80	132.44	120.38
1	c0	202	LEU	N-CA-C	8.80	120.88	111.28
1	9I	229	ARG	NE-CZ-NH2	-8.80	111.28	119.20
1	br	16	SER	CA-C-O	-8.80	111.47	119.75
1	el	79	GLU	N-CA-C	8.80	121.67	111.11
1	f	148	THR	CA-C-N	8.80	133.21	120.71
1	f	148	THR	C-N-CA	8.80	133.21	120.71
1	gC	118	MET	N-CA-C	8.80	121.83	111.71
1	iJ	188	THR	CA-C-O	8.80	130.52	119.61
1	jB	154	ARG	NE-CZ-NH2	-8.80	111.28	119.20
1	6e	81	ASP	CA-C-N	8.80	131.88	120.44
1	2c	100	ARG	CA-C-N	8.80	129.89	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2c	100	ARG	C-N-CA	8.80	129.89	120.03
1	3s	167	ARG	NE-CZ-NH2	-8.80	111.28	119.20
1	4y	180	GLU	N-CA-C	8.80	120.49	111.07
1	4N	166	ASP	N-CA-CB	8.80	123.20	109.82
1	6e	81	ASP	C-N-CA	8.80	131.88	120.44
1	7B	161	PHE	CA-CB-CG	8.80	122.60	113.80
1	8e	5	ASN	OD1-CG-ND2	8.80	131.40	122.60
1	90	51	ASP	CA-CB-CG	-8.80	103.80	112.60
1	16	143	ARG	CA-C-O	8.80	130.32	120.90
1	bc	15	ILE	O-C-N	-8.80	113.02	122.61
1	bW	28	GLU	N-CA-C	8.80	120.87	111.28
1	fR	89	GLY	CA-C-N	8.80	130.84	119.84
1	p	84	HIS	CA-C-N	8.80	128.88	119.90
1	cx	68	MET	N-CA-C	8.80	120.87	111.28
1	eS	148	THR	CA-C-O	8.80	128.81	118.69
1	eZ	181	VAL	N-CA-C	8.80	119.60	110.62
1	fR	89	GLY	C-N-CA	8.80	130.84	119.84
1	p	84	HIS	C-N-CA	8.80	128.88	119.90
1	ga	21	ASN	O-C-N	-8.80	113.01	122.07
1	hn	166	ASP	N-CA-C	8.80	121.75	111.02
1	jb	29	GLU	N-CA-C	8.80	120.48	111.07
1	jO	71	GLU	CA-C-N	8.80	132.07	120.28
1	jO	71	GLU	C-N-CA	8.80	132.07	120.28
1	kt	4	GLN	OE1-CD-NE2	8.80	131.40	122.60
1	j4	53	ASN	CA-CB-CG	-8.80	103.80	112.60
1	kg	57	ASN	O-C-N	-8.80	110.64	122.43
1	22	154	ARG	NH1-CZ-NH2	-8.80	107.86	119.30
1	lF	229	ARG	N-CA-C	8.80	122.31	110.35
1	44	88	ALA	N-CA-CB	-8.80	99.37	110.98
1	7d	229	ARG	N-CA-C	8.80	123.50	110.48
1	8S	112	GLN	O-C-N	-8.80	113.01	122.07
1	ef	166	ASP	CA-CB-CG	8.80	121.40	112.60
1	8H	37	ILE	CA-C-O	-8.80	111.37	118.85
1	9z	115	ILE	CA-C-O	8.80	129.97	120.47
1	bd	111	LEU	CA-C-N	8.80	131.88	120.44
1	bd	111	LEU	C-N-CA	8.80	131.88	120.44
1	bU	83	LEU	N-CA-C	8.80	120.48	111.07
1	dK	103	ASP	CA-C-N	8.80	131.65	120.56
1	dK	103	ASP	C-N-CA	8.80	131.65	120.56
1	eq	67	GLN	N-CA-C	8.80	120.48	111.07
1	f3	71	GLU	CA-C-N	8.80	132.95	120.28
1	f3	71	GLU	C-N-CA	8.80	132.95	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iX	91	ILE	N-CA-CB	8.80	122.54	111.46
1	49	53	ASN	OD1-CG-ND2	-8.80	113.80	122.60
1	6T	92	GLU	CA-C-O	-8.80	108.11	120.16
1	1G	82	ARG	O-C-N	-8.79	111.45	122.27
1	iu	192	GLN	N-CA-C	8.79	121.82	111.71
1	j2	226	HIS	N-CA-C	8.79	123.61	111.74
1	lM	8	GLY	CA-C-N	8.79	132.06	120.28
1	lM	8	GLY	C-N-CA	8.79	132.06	120.28
1	lP	141	ILE	CA-C-O	-8.79	111.85	121.17
1	6b	35	GLU	CA-C-N	8.79	131.64	120.56
1	6b	35	GLU	C-N-CA	8.79	131.64	120.56
1	8Z	97	ARG	NE-CZ-NH1	8.80	130.30	121.50
1	7j	139	ASN	CA-CB-CG	8.79	121.39	112.60
1	7E	176	GLN	OE1-CD-NE2	-8.79	113.81	122.60
1	9v	143	ARG	CA-C-N	8.79	132.41	120.54
1	9v	143	ARG	C-N-CA	8.79	132.41	120.54
1	aZ	167	ARG	N-CA-C	8.79	120.87	111.28
1	fq	72	THR	O-C-N	-8.80	113.01	122.07
1	cY	23	TRP	O-C-N	-8.79	113.01	122.07
1	d5	132	ARG	CA-C-O	-8.79	111.10	120.42
1	dp	36	VAL	CA-C-N	8.79	127.37	120.33
1	dp	36	VAL	C-N-CA	8.79	127.37	120.33
1	O	212	GLU	CA-C-N	8.79	131.87	120.44
1	O	212	GLU	C-N-CA	8.79	131.87	120.44
1	22	62	HIS	ND1-CG-CD2	8.79	114.89	106.10
1	h5	207	PRO	CA-C-N	8.79	135.40	122.74
1	h5	207	PRO	C-N-CA	8.79	135.40	122.74
1	41	179	GLN	N-CA-C	8.79	121.66	111.11
1	5l	64	ALA	CA-C-N	8.79	132.43	120.38
1	5l	64	ALA	C-N-CA	8.79	132.43	120.38
1	5L	19	THR	CA-C-N	8.79	131.87	120.44
1	5L	19	THR	C-N-CA	8.79	131.87	120.44
1	6s	156	GLY	CA-C-N	8.79	128.53	119.56
1	6s	156	GLY	C-N-CA	8.79	128.53	119.56
1	9E	100	ARG	CA-C-N	8.79	129.74	119.98
1	71	176	GLN	OE1-CD-NE2	-8.79	113.81	122.60
1	92	154	ARG	NE-CZ-NH1	8.79	130.29	121.50
1	9E	100	ARG	C-N-CA	8.79	129.74	119.98
1	94	173	ARG	CA-C-N	8.79	132.06	120.28
1	94	173	ARG	C-N-CA	8.79	132.06	120.28
1	aW	98	GLU	CA-C-O	-8.79	112.81	119.32
1	15	140	LYS	CA-C-O	8.79	130.31	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cE	115	ILE	CA-C-O	8.79	130.09	120.95
1	iX	89	GLY	CA-C-N	8.79	128.85	119.89
1	iX	89	GLY	C-N-CA	8.79	128.85	119.89
1	kP	150	ILE	N-CA-C	8.79	120.64	110.62
1	lz	112	GLN	N-CA-C	8.79	120.86	111.28
1	3m	42	ALA	CA-C-N	8.79	132.06	120.28
1	3m	42	ALA	C-N-CA	8.79	132.06	120.28
1	44	92	GLU	CA-C-O	-8.79	110.76	120.25
1	5l	150	ILE	CA-C-N	8.79	132.06	120.28
1	5l	150	ILE	C-N-CA	8.79	132.06	120.28
1	av	36	VAL	CA-C-N	8.79	128.87	120.43
1	av	36	VAL	C-N-CA	8.79	128.87	120.43
1	13	163	ASP	CA-CB-CG	8.79	121.39	112.60
1	aN	102	SER	CA-C-N	8.79	132.94	120.28
1	aN	102	SER	C-N-CA	8.79	132.94	120.28
1	eL	122	PRO	CA-C-N	8.79	128.83	119.78
1	eL	122	PRO	C-N-CA	8.79	128.83	119.78
1	eM	124	ILE	O-C-N	-8.79	115.83	121.37
1	fR	12	HIS	CA-CB-CG	-8.79	105.01	113.80
1	jJ	49	PRO	CA-C-N	8.79	132.05	120.28
1	jJ	49	PRO	C-N-CA	8.79	132.05	120.28
1	2w	74	ASN	CA-CB-CG	-8.79	103.81	112.60
1	2N	56	LEU	N-CA-C	8.79	120.47	111.07
1	3r	118	MET	N-CA-C	8.79	120.86	111.28
1	43	120	HIS	CA-CB-CG	8.79	122.59	113.80
1	4v	173	ARG	NE-CZ-NH1	8.79	130.29	121.50
1	6D	178	SER	CA-C-N	8.79	132.42	120.38
1	6D	178	SER	C-N-CA	8.79	132.42	120.38
1	76	149	SER	CA-C-N	8.79	131.94	120.60
1	76	149	SER	C-N-CA	8.79	131.94	120.60
1	7m	201	ILE	CA-C-N	8.79	132.40	120.54
1	7m	201	ILE	C-N-CA	8.79	132.40	120.54
1	93	75	GLU	N-CA-C	8.79	120.86	111.28
1	9g	149	SER	CA-C-N	8.79	132.50	120.46
1	9g	149	SER	C-N-CA	8.79	132.50	120.46
1	9E	210	THR	O-C-N	-8.79	111.84	122.65
1	c0	214	MET	CA-C-N	8.79	132.06	120.28
1	c0	214	MET	C-N-CA	8.79	132.06	120.28
1	u	19	THR	CA-C-O	8.79	129.87	120.55
1	cN	150	ILE	N-CA-C	-8.79	104.09	111.91
1	dX	5	ASN	CA-CB-CG	8.79	121.39	112.60
1	d	30	LYS	N-CA-CB	8.79	122.59	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jq	17	PRO	CA-C-N	8.79	132.25	120.65
1	jq	17	PRO	C-N-CA	8.79	132.25	120.65
1	j2	159	GLU	CA-C-N	8.78	128.86	119.90
1	j2	159	GLU	C-N-CA	8.78	128.86	119.90
1	je	210	THR	CA-CB-OG1	8.79	122.78	109.60
1	kw	206	GLY	CA-C-N	8.79	129.87	120.12
1	kw	206	GLY	C-N-CA	8.79	129.87	120.12
1	24	12	HIS	N-CA-CB	8.79	124.87	110.37
1	2M	37	ILE	CA-C-N	8.79	128.43	118.85
1	2M	37	ILE	C-N-CA	8.79	128.43	118.85
1	4t	199	LYS	CA-C-N	8.79	131.86	120.44
1	g	115	ILE	CA-C-N	8.79	129.92	119.99
1	g	115	ILE	C-N-CA	8.79	129.92	119.99
1	P	28	GLU	N-CA-C	8.79	120.47	111.07
1	lu	23	TRP	CB-CA-C	8.78	125.37	110.79
1	lC	183	ASN	CA-CB-CG	-8.78	103.82	112.60
1	2i	150	ILE	N-CA-C	-8.78	104.25	111.81
1	2O	75	GLU	N-CA-C	8.79	120.47	111.07
1	4t	199	LYS	C-N-CA	8.79	131.86	120.44
1	7L	53	ASN	CA-CB-CG	-8.79	103.81	112.60
1	9y	116	GLY	CA-C-N	8.79	131.86	120.44
1	9y	116	GLY	C-N-CA	8.79	131.86	120.44
1	ba	84	HIS	CA-C-N	8.79	130.82	119.84
1	ba	84	HIS	C-N-CA	8.79	130.82	119.84
1	bz	132	ARG	N-CA-C	8.79	120.86	111.28
1	dW	199	LYS	N-CA-C	8.79	121.96	111.33
1	K	184	TRP	N-CA-C	8.79	120.86	111.28
1	bX	126	VAL	N-CA-C	8.78	119.58	110.62
1	1g	173	ARG	NE-CZ-NH2	-8.78	111.29	119.20
1	2A	159	GLU	CA-C-O	-8.78	112.46	119.66
1	3s	219	GLN	O-C-N	-8.78	113.10	122.94
1	gE	125	PRO	CA-C-N	8.78	131.93	120.60
1	gE	125	PRO	C-N-CA	8.78	131.93	120.60
1	gM	7	GLN	CA-C-N	8.78	132.74	121.85
1	gM	7	GLN	C-N-CA	8.78	132.74	121.85
1	jZ	206	GLY	O-C-N	-8.78	112.99	121.77
1	3H	229	ARG	N-CA-C	8.78	122.64	110.35
1	3T	77	ALA	CA-C-N	8.78	131.86	120.44
1	3T	77	ALA	C-N-CA	8.78	131.86	120.44
1	6N	12	HIS	CA-CB-CG	8.78	122.58	113.80
1	7s	87	HIS	CE1-NE2-CD2	-8.78	100.22	109.00
1	8r	229	ARG	N-CA-C	8.78	123.19	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	92	GLU	CA-C-O	-8.78	111.50	120.02
1	af	137	GLY	CA-C-N	8.78	132.76	120.29
1	af	137	GLY	C-N-CA	8.78	132.76	120.29
1	d6	16	SER	O-C-N	-8.78	113.67	121.31
1	d8	33	SER	O-C-N	-8.78	112.95	122.17
1	m	211	LEU	N-CA-C	8.78	120.85	111.28
1	1D	86	VAL	CA-C-N	8.78	134.54	122.34
1	1D	86	VAL	C-N-CA	8.78	134.54	122.34
1	h1	221	VAL	O-C-N	-8.78	112.79	121.83
1	h8	81	ASP	N-CA-C	8.78	121.81	111.71
1	iF	114	GLN	CA-C-O	-8.78	111.60	120.82
1	1V	25	LYS	O-C-N	-8.78	111.47	122.27
1	l4	18	ARG	NH1-CZ-NH2	-8.78	107.89	119.30
1	l8	223	GLY	CA-C-N	8.78	130.81	119.84
1	l8	223	GLY	C-N-CA	8.78	130.81	119.84
1	bg	166	ASP	CA-C-O	8.78	129.86	120.55
1	5e	174	ALA	CA-C-N	8.78	133.18	120.71
1	5e	174	ALA	C-N-CA	8.78	133.18	120.71
1	5n	61	GLY	N-CA-C	8.78	121.63	111.36
1	6A	197	ASP	O-C-N	-8.78	112.81	122.12
1	ap	33	SER	CA-C-O	-8.78	111.24	119.76
1	bf	133	TRP	N-CA-C	8.78	120.46	111.07
1	bZ	83	LEU	N-CA-C	8.78	120.46	111.07
1	ck	5	ASN	CA-CB-CG	8.78	121.38	112.60
1	eF	226	HIS	CA-CB-CG	-8.78	105.02	113.80
1	gN	62	HIS	ND1-CG-CD2	8.78	114.88	106.10
1	jX	197	ASP	CA-CB-CG	-8.78	103.82	112.60
1	2m	141	ILE	N-CA-C	8.78	119.57	110.62
1	2u	121	ASN	OD1-CG-ND2	-8.78	113.83	122.60
1	3p	165	VAL	CA-C-N	8.78	131.85	120.44
1	3p	165	VAL	C-N-CA	8.78	131.85	120.44
1	4w	79	GLU	N-CA-C	8.78	121.80	111.71
1	bd	82	ARG	CA-C-N	8.78	131.85	120.44
1	6C	190	LEU	N-CA-C	8.78	122.00	111.82
1	7u	19	THR	N-CA-CB	8.78	122.73	110.01
1	8n	92	GLU	O-C-N	-8.78	111.60	121.43
1	8V	152	ASP	CA-C-O	8.78	129.72	120.42
1	az	194	ALA	O-C-N	-8.78	112.50	122.86
1	bd	82	ARG	C-N-CA	8.78	131.85	120.44
1	fK	121	ASN	O-C-N	-8.78	111.31	121.23
1	fX	91	ILE	CA-C-N	8.78	133.23	120.51
1	fX	91	ILE	C-N-CA	8.78	133.23	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gD	96	MET	O-C-N	-8.77	112.98	123.16
1	jS	194	ALA	N-CA-C	8.77	121.20	110.41
1	jU	16	SER	N-CA-C	8.77	120.71	109.65
1	kg	218	CYS	N-CA-C	8.77	123.47	111.54
1	lt	37	ILE	O-C-N	-8.77	114.81	120.42
1	33	193	ASN	OD1-CG-ND2	8.77	131.37	122.60
1	5l	27	VAL	N-CA-C	8.77	119.57	110.36
1	5M	107	THR	N-CA-C	8.77	120.84	111.28
1	7o	12	HIS	ND1-CE1-NE2	8.77	117.17	108.40
1	8B	162	ARG	NE-CZ-NH1	8.77	130.27	121.50
1	9g	62	HIS	N-CA-C	8.77	123.50	111.39
1	aY	125	PRO	CA-C-O	-8.77	114.62	121.38
1	bk	21	ASN	CA-CB-CG	8.77	121.37	112.60
1	dq	142	VAL	N-CA-C	8.77	120.62	110.62
1	et	135	ILE	O-C-N	-8.77	113.01	121.87
1	gt	193	ASN	CA-CB-CG	-8.77	103.83	112.60
1	hg	173	ARG	NE-CZ-NH1	8.77	130.27	121.50
1	1J	211	LEU	CA-C-O	8.77	129.85	120.55
1	kF	124	ILE	CA-C-O	-8.77	114.92	120.88
1	5y	213	GLU	N-CA-C	8.77	120.84	111.28
1	2H	192	GLN	N-CA-C	8.77	120.84	111.28
1	6h	37	ILE	CA-C-O	-8.77	112.04	118.71
1	6l	62	HIS	ND1-CG-CD2	8.77	114.87	106.10
1	6U	20	LEU	N-CA-C	8.77	120.46	111.07
1	cQ	123	PRO	CA-C-N	8.77	128.56	122.60
1	cQ	123	PRO	C-N-CA	8.77	128.56	122.60
1	dr	154	ARG	N-CA-C	8.77	123.12	109.52
1	78	42	ALA	N-CA-C	8.77	120.84	111.28
1	86	141	ILE	O-C-N	-8.77	113.31	121.91
1	9w	52	LEU	CA-C-N	8.77	133.64	120.31
1	9w	52	LEU	C-N-CA	8.77	133.64	120.31
1	aV	179	GLN	N-CA-C	8.77	121.64	111.11
1	bE	174	ALA	CA-C-N	8.77	133.19	120.82
1	bE	174	ALA	C-N-CA	8.77	133.19	120.82
1	1e	162	ARG	CA-C-N	8.77	132.03	120.28
1	1e	162	ARG	C-N-CA	8.77	132.03	120.28
1	cN	92	GLU	CA-C-N	8.77	130.80	119.84
1	cN	92	GLU	C-N-CA	8.77	130.80	119.84
1	1j	45	GLU	N-CA-CB	8.77	123.22	109.71
1	dx	100	ARG	NE-CZ-NH2	-8.77	111.31	119.20
1	dQ	121	ASN	OD1-CG-ND2	-8.77	113.83	122.60
1	fi	113	GLU	O-C-N	-8.77	112.82	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fE	22	ALA	N-CA-C	8.77	121.64	111.11
1	l	18	ARG	NE-CZ-NH1	8.77	130.27	121.50
1	fH	53	ASN	O-C-N	-8.77	113.04	122.07
1	fN	71	GLU	O-C-N	8.77	131.42	122.12
1	gP	122	PRO	CA-C-N	8.77	128.83	119.89
1	gP	122	PRO	C-N-CA	8.77	128.83	119.89
1	hB	40	PHE	CA-CB-CG	-8.77	105.03	113.80
1	15	36	VAL	CA-C-N	8.77	127.35	120.33
1	15	36	VAL	C-N-CA	8.77	127.35	120.33
1	j7	9	GLN	N-CA-C	-8.77	95.64	109.23
1	js	167	ARG	NE-CZ-NH2	-8.77	111.31	119.20
1	jV	62	HIS	N-CA-C	8.77	123.22	111.30
1	3v	37	ILE	O-C-N	-8.77	114.81	120.42
1	3L	84	HIS	CA-CB-CG	-8.77	105.03	113.80
1	4R	226	HIS	CA-CB-CG	-8.77	105.03	113.80
1	6t	62	HIS	N-CA-C	8.77	123.47	111.54
1	1s	39	MET	CA-C-N	8.77	132.03	120.28
1	1s	39	MET	C-N-CA	8.77	132.03	120.28
1	1s	53	ASN	CA-CB-CG	-8.77	103.83	112.60
1	gq	163	ASP	CA-CB-CG	8.77	121.37	112.60
1	hc	166	ASP	CA-C-N	8.77	132.03	120.28
1	hc	166	ASP	C-N-CA	8.77	132.03	120.28
1	5g	30	LYS	CA-C-O	8.77	128.28	119.08
1	gJ	137	GLY	O-C-N	-8.77	113.69	122.19
1	hi	25	LYS	O-C-N	-8.77	111.49	122.27
1	hG	182	LYS	O-C-N	-8.77	112.83	122.12
1	hO	141	ILE	N-CA-C	8.77	119.56	110.62
1	iP	109	SER	CA-C-O	8.77	130.17	120.70
1	k7	22	ALA	CA-C-O	-8.77	111.26	120.55
1	2k	132	ARG	NE-CZ-NH1	8.77	130.27	121.50
1	2k	217	ALA	N-CA-CB	-8.77	98.33	110.25
1	9a	103	ASP	N-CA-C	8.77	120.45	111.07
1	fl	23	TRP	O-C-N	-8.77	113.04	122.07
1	26	126	VAL	N-CA-C	8.77	119.56	110.62
1	lF	83	LEU	N-CA-C	8.77	121.79	111.71
1	2j	132	ARG	N-CA-C	8.77	121.94	111.33
1	46	61	GLY	N-CA-C	8.77	122.01	111.93
1	62	92	GLU	CA-C-N	8.77	129.30	119.92
1	62	92	GLU	C-N-CA	8.77	129.30	119.92
1	7b	203	LYS	N-CA-C	-8.77	101.81	111.36
1	7V	155	GLN	O-C-N	-8.77	113.05	123.13
1	8y	11	VAL	O-C-N	-8.77	113.34	122.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9B	126	VAL	O-C-N	-8.77	113.05	121.90
1	aA	100	ARG	NE-CZ-NH2	-8.77	111.31	119.20
1	S	199	LYS	CA-C-N	8.77	131.84	120.44
1	aK	156	GLY	O-C-N	-8.77	113.00	121.77
1	aY	86	VAL	N-CA-CB	8.77	120.77	110.95
1	cv	229	ARG	NE-CZ-NH1	8.77	130.27	121.50
1	D	128	GLU	N-CA-C	8.77	121.63	111.11
1	S	199	LYS	C-N-CA	8.77	131.84	120.44
1	eb	103	ASP	CA-CB-CG	8.77	121.36	112.60
1	hk	156	GLY	CA-C-O	-8.76	113.96	122.46
1	i9	14	ALA	N-CA-C	8.76	123.25	110.28
1	il	120	HIS	CB-CG-CD2	-8.76	119.81	131.20
1	jd	95	GLN	CB-CG-CD	8.76	127.50	112.60
1	jz	167	ARG	NE-CZ-NH1	8.76	130.26	121.50
1	lN	53	ASN	CA-CB-CG	-8.76	103.84	112.60
1	41	5	ASN	CA-CB-CG	-8.76	103.84	112.60
1	cy	12	HIS	CA-CB-CG	8.76	122.56	113.80
1	er	70	LYS	N-CA-C	8.76	120.83	111.28
1	fq	102	SER	CA-C-N	8.76	132.02	120.28
1	fq	102	SER	C-N-CA	8.76	132.02	120.28
1	fT	6	LEU	CA-C-N	8.76	135.31	122.86
1	fT	6	LEU	C-N-CA	8.76	135.31	122.86
1	v	86	VAL	O-C-N	-8.76	111.61	122.57
1	jM	19	THR	CA-C-N	8.76	131.83	120.44
1	jM	19	THR	C-N-CA	8.76	131.83	120.44
1	k3	83	LEU	N-CA-C	8.76	120.91	111.36
1	km	138	LEU	N-CA-C	8.76	121.93	111.33
1	lE	97	ARG	NE-CZ-NH2	-8.76	111.31	119.20
1	3k	181	VAL	CA-C-N	8.76	131.83	120.44
1	3k	181	VAL	C-N-CA	8.76	131.83	120.44
1	do	221	VAL	O-C-N	-8.76	113.80	123.26
1	5G	62	HIS	ND1-CG-CD2	8.76	114.86	106.10
1	7l	84	HIS	CA-C-N	8.76	128.83	119.89
1	7l	84	HIS	C-N-CA	8.76	128.83	119.89
1	a9	20	LEU	N-CA-C	8.76	120.83	111.28
1	bn	200	THR	CA-C-N	8.76	131.60	120.56
1	bn	200	THR	C-N-CA	8.76	131.60	120.56
1	ce	229	ARG	NE-CZ-NH1	8.76	130.26	121.50
1	dn	75	GLU	O-C-N	-8.76	112.16	122.15
1	f5	164	TYR	N-CA-C	8.76	121.93	111.33
1	4D	131	LYS	CA-C-N	8.76	132.73	120.29
1	4D	131	LYS	C-N-CA	8.76	132.73	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6B	162	ARG	NE-CZ-NH1	8.76	130.26	121.50
1	ld	112	GLN	OE1-CD-NE2	-8.76	113.84	122.60
1	2W	37	ILE	CA-C-N	8.76	128.77	119.05
1	2W	37	ILE	C-N-CA	8.76	128.77	119.05
1	6S	222	GLY	CA-C-N	8.76	135.62	121.87
1	6S	222	GLY	C-N-CA	8.76	135.62	121.87
1	8M	144	MET	CA-C-N	8.76	132.38	120.38
1	8M	144	MET	C-N-CA	8.76	132.38	120.38
1	8M	180	GLU	CA-C-N	8.76	131.60	120.56
1	8M	180	GLU	C-N-CA	8.76	131.60	120.56
1	9Y	37	ILE	O-C-N	-8.76	111.11	121.10
1	bO	37	ILE	N-CA-CB	8.76	116.02	110.50
1	dL	16	SER	CA-C-N	8.76	128.77	119.05
1	dL	16	SER	C-N-CA	8.76	128.77	119.05
1	g5	33	SER	CA-C-O	-8.76	112.59	120.56
1	gu	35	GLU	N-CA-C	8.76	121.78	111.71
1	iS	135	ILE	N-CA-C	8.76	119.56	110.36
1	kb	18	ARG	CA-C-N	8.76	131.82	120.44
1	kb	18	ARG	C-N-CA	8.76	131.82	120.44
1	kR	184	TRP	N-CA-C	8.76	120.91	111.36
1	3X	174	ALA	N-CA-C	8.76	120.60	111.14
1	lw	98	GLU	CA-C-N	8.76	128.78	119.76
1	lw	98	GLU	C-N-CA	8.76	128.78	119.76
1	2k	146	SER	CB-CA-C	-8.76	102.56	110.44
1	3k	74	ASN	OD1-CG-ND2	-8.76	113.84	122.60
1	3Z	166	ASP	CA-CB-CG	8.76	121.36	112.60
1	4w	82	ARG	NE-CZ-NH1	8.76	130.26	121.50
1	3G	204	ALA	O-C-N	-8.76	112.17	122.15
1	4L	48	THR	N-CA-CB	8.76	120.94	109.55
1	5h	102	SER	O-C-N	-8.76	112.84	122.12
1	5T	102	SER	CA-C-N	8.76	132.01	120.28
1	5T	102	SER	C-N-CA	8.76	132.01	120.28
1	6c	195	ASN	CA-CB-CG	8.76	121.36	112.60
1	6t	62	HIS	ND1-CG-CD2	8.76	114.86	106.10
1	7h	37	ILE	O-C-N	-8.76	114.82	120.42
1	7A	24	VAL	O-C-N	-8.76	113.33	121.91
1	7J	32	PHE	N-CA-C	-8.76	101.91	112.59
1	94	120	HIS	CA-CB-CG	8.76	122.56	113.80
1	9U	182	LYS	N-CA-C	8.76	120.83	111.28
1	9Z	82	ARG	NE-CZ-NH2	8.76	127.08	119.20
1	af	162	ARG	N-CA-C	8.76	120.83	111.28
1	an	53	ASN	CA-CB-CG	-8.76	103.84	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aJ	127	GLY	CA-C-N	8.76	132.01	120.28
1	aJ	127	GLY	C-N-CA	8.76	132.01	120.28
1	et	195	ASN	CA-C-N	8.76	130.79	119.84
1	et	195	ASN	C-N-CA	8.76	130.79	119.84
1	eQ	142	VAL	N-CA-CB	8.76	120.80	110.55
1	6z	41	SER	CA-C-O	-8.76	111.63	120.82
1	bG	126	VAL	CA-C-N	8.76	129.66	119.94
1	bG	126	VAL	C-N-CA	8.76	129.66	119.94
1	bR	82	ARG	N-CA-C	-8.76	102.76	113.97
1	co	223	GLY	CA-C-N	8.76	130.78	119.84
1	co	223	GLY	C-N-CA	8.76	130.78	119.84
1	cr	28	GLU	N-CA-C	8.76	120.90	111.36
1	dU	87	HIS	CE1-NE2-CD2	-8.76	100.24	109.00
1	g4	103	ASP	CA-CB-CG	-8.76	103.84	112.60
1	jH	180	GLU	O-C-N	-8.75	112.84	122.12
1	l7	173	ARG	NE-CZ-NH1	8.75	130.25	121.50
1	44	37	ILE	CA-C-O	-8.75	112.83	118.69
1	bq	33	SER	O-C-N	-8.75	116.11	121.71
1	hG	162	ARG	N-CA-C	8.75	121.92	111.33
1	iC	120	HIS	CE1-NE2-CD2	-8.75	100.25	109.00
1	jj	195	ASN	CB-CA-C	8.75	122.24	109.11
1	jo	29	GLU	CA-C-O	-8.75	111.27	120.55
1	lC	22	ALA	CA-C-N	8.75	131.82	120.44
1	lC	22	ALA	C-N-CA	8.75	131.82	120.44
1	lC	164	TYR	N-CA-C	8.75	121.92	111.33
1	lL	136	LEU	CA-C-N	8.75	129.48	119.94
1	lL	136	LEU	C-N-CA	8.75	129.48	119.94
1	lR	212	GLU	CA-C-N	8.75	131.82	120.44
1	lR	212	GLU	C-N-CA	8.75	131.82	120.44
1	2d	192	GLN	N-CA-C	8.75	120.82	111.28
1	2h	92	GLU	CA-C-N	8.75	130.78	119.84
1	2h	92	GLU	C-N-CA	8.75	130.78	119.84
1	2m	184	TRP	CA-C-O	8.75	129.70	120.42
1	2t	121	ASN	CA-CB-CG	8.75	121.35	112.60
1	39	63	GLN	O-C-N	-8.75	111.50	122.27
1	92	141	ILE	CA-C-N	8.75	131.89	120.60
1	92	141	ILE	C-N-CA	8.75	131.89	120.60
1	18	221	VAL	O-C-N	-8.75	111.63	122.57
1	8l	74	ASN	OD1-CG-ND2	-8.75	113.85	122.60
1	8V	25	LYS	CA-C-N	8.75	131.59	120.56
1	8V	25	LYS	C-N-CA	8.75	131.59	120.56
1	9e	53	ASN	CA-CB-CG	-8.75	103.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aI	203	LYS	N-CA-C	8.75	120.44	111.07
1	da	139	ASN	CA-CB-CG	-8.75	103.85	112.60
1	1j	148	THR	N-CA-C	8.75	122.25	110.35
1	fr	21	ASN	CA-C-N	8.75	132.01	120.28
1	fr	21	ASN	C-N-CA	8.75	132.01	120.28
1	K	142	VAL	N-CA-C	8.75	119.55	110.62
1	5	121	ASN	CA-CB-CG	8.75	121.35	112.60
1	gX	118	MET	N-CA-C	8.75	120.82	111.28
1	2B	209	ALA	N-CA-C	8.75	122.63	108.63
1	3C	79	GLU	CA-C-O	8.75	130.03	119.97
1	5d	49	PRO	CA-C-N	8.75	131.82	120.44
1	5d	49	PRO	C-N-CA	8.75	131.82	120.44
1	bG	136	LEU	CA-C-N	8.75	129.65	119.94
1	bG	136	LEU	C-N-CA	8.75	129.65	119.94
1	da	195	ASN	CA-CB-CG	8.75	121.35	112.60
1	T	98	GLU	O-C-N	-8.75	113.87	121.31
1	gU	162	ARG	NE-CZ-NH1	8.75	130.25	121.50
1	ih	211	LEU	CA-C-N	8.75	131.81	120.44
1	ih	211	LEU	C-N-CA	8.75	131.81	120.44
1	ij	47	ALA	N-CA-C	8.75	123.98	109.46
1	kK	33	SER	O-C-N	-8.75	113.75	121.71
1	lm	84	HIS	CA-C-N	8.75	130.78	119.84
1	lm	84	HIS	C-N-CA	8.75	130.78	119.84
1	lz	115	ILE	CA-C-N	8.75	129.83	120.03
1	lz	115	ILE	C-N-CA	8.75	129.83	120.03
1	5W	120	HIS	ND1-CE1-NE2	8.75	117.15	108.40
1	6v	196	PRO	CA-C-N	8.75	132.00	120.28
1	6v	196	PRO	C-N-CA	8.75	132.00	120.28
1	6W	154	ARG	NE-CZ-NH2	8.75	127.08	119.20
1	8q	101	GLY	CA-C-N	8.75	132.88	120.28
1	8q	101	GLY	C-N-CA	8.75	132.88	120.28
1	9h	162	ARG	CA-C-N	8.75	132.01	120.28
1	9h	162	ARG	C-N-CA	8.75	132.01	120.28
1	I	113	GLU	CA-C-O	8.75	130.01	120.82
1	82	141	ILE	N-CA-C	8.75	118.82	110.42
1	9s	133	TRP	CB-CG-CD2	-8.75	114.55	126.80
1	cd	160	PRO	CA-C-N	8.75	133.95	120.82
1	cd	160	PRO	C-N-CA	8.75	133.95	120.82
1	cK	106	GLY	CA-C-N	8.75	132.34	120.44
1	cK	106	GLY	C-N-CA	8.75	132.34	120.44
1	gb	162	ARG	NE-CZ-NH1	8.75	130.25	121.50
1	gU	180	GLU	O-C-N	-8.75	112.85	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hY	114	GLN	N-CA-C	8.75	120.81	111.28
1	i0	209	ALA	CA-C-N	8.75	133.68	120.82
1	i0	209	ALA	C-N-CA	8.75	133.68	120.82
1	iF	164	TYR	CA-C-N	8.75	131.58	120.56
1	iF	164	TYR	C-N-CA	8.75	131.58	120.56
1	ki	210	THR	CA-C-N	8.75	131.81	120.44
1	ki	210	THR	C-N-CA	8.75	131.81	120.44
1	kr	44	SER	N-CA-C	8.75	120.82	111.28
1	3w	66	MET	N-CA-C	8.75	121.61	111.11
1	4u	226	HIS	CE1-NE2-CD2	-8.75	100.25	109.00
1	4P	134	ILE	N-CA-C	8.75	119.54	110.62
1	bD	67	GLN	N-CA-C	8.75	120.81	111.28
1	bR	212	GLU	N-CA-C	8.75	121.92	111.33
1	cR	22	ALA	CA-C-N	8.75	131.81	120.44
1	cR	22	ALA	C-N-CA	8.75	131.81	120.44
1	g2	21	ASN	CA-CB-CG	8.75	121.35	112.60
1	5X	226	HIS	CE1-NE2-CD2	-8.75	100.25	109.00
1	65	103	ASP	CA-CB-CG	-8.75	103.85	112.60
1	7u	36	VAL	N-CA-C	8.75	119.54	110.62
1	7w	73	ILE	N-CA-C	8.75	119.33	110.23
1	7W	71	GLU	CA-C-N	8.75	131.81	120.44
1	7W	71	GLU	C-N-CA	8.75	131.81	120.44
1	8I	133	TRP	CB-CG-CD1	8.75	140.02	126.90
1	z	9	GLN	OE1-CD-NE2	-8.75	113.85	122.60
1	gT	130	TYR	CA-C-O	8.74	129.82	120.55
1	gX	229	ARG	NE-CZ-NH1	8.74	130.25	121.50
1	gY	91	ILE	CA-CB-CG1	8.74	125.27	110.40
1	if	197	ASP	N-CA-C	8.74	120.81	111.28
1	k9	25	LYS	CA-C-O	-8.74	111.28	120.55
1	2y	60	GLY	N-CA-C	8.74	122.64	112.50
1	5G	113	GLU	N-CA-C	8.74	120.81	111.28
1	6P	72	THR	CA-C-N	8.74	131.58	120.56
1	cR	229	ARG	NE-CZ-NH2	-8.74	111.33	119.20
1	gE	35	GLU	N-CA-C	-8.74	103.13	113.88
1	ht	126	VAL	N-CA-C	8.74	119.54	110.62
1	hY	166	ASP	O-C-N	-8.74	113.06	122.07
1	kp	103	ASP	CA-CB-CG	8.74	121.34	112.60
1	6P	72	THR	C-N-CA	8.74	131.58	120.56
1	70	129	ILE	CB-CA-C	-8.74	100.15	112.22
1	7f	167	ARG	CA-C-N	8.74	132.19	120.65
1	7f	167	ARG	C-N-CA	8.74	132.19	120.65
1	7J	100	ARG	NE-CZ-NH2	-8.74	111.33	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1o	190	LEU	N-CA-C	8.74	120.43	111.07
1	eC	209	ALA	N-CA-C	8.74	121.89	110.43
1	f8	193	ASN	CA-CB-CG	-8.74	103.86	112.60
1	3M	166	ASP	CA-CB-CG	8.74	121.34	112.60
1	6B	82	ARG	NE-CZ-NH1	8.74	130.24	121.50
1	7d	41	SER	N-CA-C	8.74	120.81	111.28
1	7K	162	ARG	N-CA-C	8.74	120.42	111.07
1	9e	153	ILE	N-CA-C	8.74	122.01	109.51
1	85	129	ILE	N-CA-C	8.74	119.54	110.62
1	1f	162	ARG	NE-CZ-NH1	8.74	130.24	121.50
1	do	121	ASN	CA-CB-CG	-8.74	103.86	112.60
1	ed	181	VAL	O-C-N	-8.74	113.39	121.87
1	eZ	201	ILE	CA-C-N	8.74	131.80	120.44
1	eZ	201	ILE	C-N-CA	8.74	131.80	120.44
1	1u	33	SER	N-CA-C	8.74	116.09	108.22
1	gF	31	ALA	CB-CA-C	-8.74	105.39	115.79
1	gR	185	MET	CA-C-O	8.74	130.00	120.82
1	jq	33	SER	CA-C-O	-8.74	111.28	119.76
1	6H	188	THR	CA-C-N	8.74	131.99	120.28
1	6H	188	THR	C-N-CA	8.74	131.99	120.28
1	bN	100	ARG	NE-CZ-NH2	8.74	127.07	119.20
1	hl	5	ASN	N-CA-C	8.74	120.58	111.14
1	ja	12	HIS	CE1-NE2-CD2	-8.74	100.26	109.00
1	jO	65	ALA	N-CA-C	8.74	120.81	111.28
1	lz	63	GLN	CA-C-N	8.74	131.99	120.28
1	lz	63	GLN	C-N-CA	8.74	131.99	120.28
1	lB	144	MET	N-CA-C	8.74	120.81	111.28
1	33	226	HIS	CA-CB-CG	8.74	122.54	113.80
1	3v	157	PRO	CA-C-N	8.74	131.80	120.44
1	3v	157	PRO	C-N-CA	8.74	131.80	120.44
1	3x	203	LYS	O-C-N	8.74	131.07	122.07
1	5B	123	PRO	N-CA-CB	8.74	110.94	103.25
1	7j	67	GLN	OE1-CD-NE2	8.74	131.34	122.60
1	ae	195	ASN	CA-C-N	8.74	130.76	119.84
1	ae	195	ASN	C-N-CA	8.74	130.76	119.84
1	1a	41	SER	CA-C-N	8.74	131.80	120.44
1	1a	41	SER	C-N-CA	8.74	131.80	120.44
1	ck	150	ILE	N-CA-C	8.74	118.81	110.42
1	e	179	GLN	CA-C-N	8.74	131.99	120.28
1	e	179	GLN	C-N-CA	8.74	131.99	120.28
1	g	66	MET	N-CA-C	8.74	120.42	111.07
1	gU	74	ASN	OD1-CG-ND2	-8.74	113.86	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	63	GLN	N-CA-C	8.74	121.90	111.33
1	jD	120	HIS	CA-CB-CG	8.74	122.54	113.80
1	lA	180	GLU	CA-C-N	8.74	131.57	120.56
1	lA	180	GLU	C-N-CA	8.74	131.57	120.56
1	4w	146	SER	CA-C-O	-8.74	110.01	120.41
1	7u	139	ASN	OD1-CG-ND2	-8.74	113.86	122.60
1	jT	99	PRO	N-CA-CB	-8.74	98.03	102.92
1	3Q	125	PRO	CA-C-N	8.74	132.85	120.53
1	3Q	125	PRO	C-N-CA	8.74	132.85	120.53
1	4B	132	ARG	CA-C-N	8.74	131.99	120.28
1	4B	132	ARG	C-N-CA	8.74	131.99	120.28
1	5X	167	ARG	NE-CZ-NH1	8.74	130.24	121.50
1	6a	159	GLU	CA-C-N	8.74	130.76	119.84
1	6a	159	GLU	C-N-CA	8.74	130.76	119.84
1	7y	175	GLU	N-CA-C	8.74	120.58	111.14
1	7C	57	ASN	N-CA-C	8.74	123.72	112.89
1	v	195	ASN	O-C-N	-8.74	111.70	121.66
1	S	185	MET	N-CA-C	8.74	120.80	111.28
1	iu	37	ILE	N-CA-CB	8.73	117.26	110.45
1	iW	100	ARG	NH1-CZ-NH2	-8.73	107.94	119.30
1	41	121	ASN	CA-C-O	8.73	126.40	119.59
1	8A	84	HIS	O-C-N	-8.73	113.31	121.35
1	bP	162	ARG	NE-CZ-NH2	-8.73	111.34	119.20
1	je	184	TRP	N-CA-C	8.73	120.80	111.28
1	1W	19	THR	CA-C-O	8.73	129.99	120.82
1	kG	37	ILE	O-C-N	-8.73	114.83	120.42
1	kR	188	THR	CA-C-N	8.73	132.33	120.54
1	kR	188	THR	C-N-CA	8.73	132.33	120.54
1	lF	139	ASN	CA-C-N	8.73	132.69	120.29
1	lF	139	ASN	C-N-CA	8.73	132.69	120.29
1	lJ	42	ALA	CA-C-O	8.73	129.82	119.60
1	2O	78	ALA	N-CA-C	8.73	121.75	111.71
1	34	144	MET	N-CA-C	8.73	120.42	111.07
1	4Q	168	PHE	CA-C-O	8.73	129.81	120.55
1	8p	167	ARG	NE-CZ-NH1	8.73	130.24	121.50
1	6E	19	THR	CA-C-N	8.73	131.79	120.44
1	6E	19	THR	C-N-CA	8.73	131.79	120.44
1	7V	152	ASP	CA-C-O	8.73	129.57	119.18
1	9i	16	SER	CA-C-N	8.73	128.74	119.05
1	9i	16	SER	C-N-CA	8.73	128.74	119.05
1	10	32	PHE	CA-CB-CG	-8.73	105.07	113.80
1	bt	48	THR	O-C-N	-8.73	111.75	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	195	ASN	CA-CB-CG	8.73	121.33	112.60
1	dg	162	ARG	CA-C-N	8.73	131.79	120.44
1	dg	162	ARG	C-N-CA	8.73	131.79	120.44
1	dU	124	ILE	CB-CA-C	8.73	121.22	111.18
1	dY	186	THR	CA-C-N	8.73	131.98	120.28
1	dY	186	THR	C-N-CA	8.73	131.98	120.28
1	eR	191	VAL	CA-C-N	8.73	132.35	120.38
1	eR	191	VAL	C-N-CA	8.73	132.35	120.38
1	fQ	185	MET	N-CA-C	8.73	122.93	111.75
1	gx	164	TYR	N-CA-C	8.73	120.41	111.07
1	gB	17	PRO	CA-C-N	8.73	131.79	120.44
1	gB	17	PRO	C-N-CA	8.73	131.79	120.44
1	hp	135	ILE	N-CA-C	8.73	119.53	110.36
1	hV	6	LEU	O-C-N	-8.73	112.00	122.22
1	kp	210	THR	CA-C-N	8.73	131.98	120.28
1	kp	210	THR	C-N-CA	8.73	131.98	120.28
1	2k	124	ILE	O-C-N	-8.73	111.15	121.10
1	dD	112	GLN	OE1-CD-NE2	-8.73	113.87	122.60
1	iK	162	ARG	NE-CZ-NH2	-8.73	111.34	119.20
1	jV	181	VAL	N-CA-CB	8.73	120.76	110.55
1	2M	115	ILE	O-C-N	-8.73	113.40	121.87
1	84	70	LYS	CA-C-N	8.73	131.79	120.44
1	84	70	LYS	C-N-CA	8.73	131.79	120.44
1	8a	110	THR	CA-C-N	8.73	133.92	120.82
1	8a	110	THR	C-N-CA	8.73	133.92	120.82
1	dU	37	ILE	CA-C-N	8.73	128.32	119.24
1	dU	37	ILE	C-N-CA	8.73	128.32	119.24
1	k	154	ARG	NE-CZ-NH1	8.73	130.23	121.50
1	6	100	ARG	NE-CZ-NH1	8.73	130.23	121.50
1	8g	22	ALA	CA-C-N	8.73	132.33	120.54
1	8g	22	ALA	C-N-CA	8.73	132.33	120.54
1	cz	162	ARG	N-CA-C	8.73	120.41	111.07
1	1H	35	GLU	N-CA-C	8.73	120.79	111.28
1	jS	132	ARG	CA-C-N	8.73	132.32	120.54
1	jS	132	ARG	C-N-CA	8.73	132.32	120.54
1	kP	96	MET	O-C-N	-8.73	113.53	123.48
1	h7	214	MET	N-CA-C	8.73	120.79	111.28
1	37	187	GLU	N-CA-C	8.73	120.79	111.28
1	58	18	ARG	NE-CZ-NH1	8.73	130.23	121.50
1	5t	200	THR	CA-C-O	-8.73	111.30	120.55
1	6G	52	LEU	CA-C-N	8.73	131.79	120.44
1	6G	52	LEU	C-N-CA	8.73	131.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7h	55	MET	N-CA-C	8.73	120.80	111.28
1	bi	25	LYS	O-C-N	-8.73	112.87	122.12
1	it	167	ARG	NE-CZ-NH1	8.73	130.23	121.50
1	iZ	164	TYR	N-CA-C	8.73	120.79	111.28
1	j6	132	ARG	O-C-N	-8.73	113.08	122.07
1	1W	166	ASP	CA-CB-CG	8.73	121.33	112.60
1	jz	115	ILE	CA-C-N	8.73	129.81	120.03
1	jz	115	ILE	C-N-CA	8.73	129.81	120.03
1	2p	162	ARG	NE-CZ-NH1	8.73	130.23	121.50
1	4y	97	ARG	N-CA-C	8.73	121.59	110.24
1	4d	171	THR	O-C-N	-8.73	111.54	122.27
1	4A	135	ILE	N-CA-C	8.73	122.00	111.09
1	53	100	ARG	NH1-CZ-NH2	-8.73	107.95	119.30
1	5f	29	GLU	N-CA-C	8.73	120.79	111.28
1	ce	62	HIS	CA-CB-CG	-8.73	105.07	113.80
1	77	103	ASP	N-CA-C	-8.73	100.96	111.69
1	7y	104	ILE	N-CA-C	8.73	119.53	110.36
1	d8	104	ILE	N-CA-C	8.73	119.52	110.62
1	ft	81	ASP	O-C-N	-8.73	111.53	122.27
1	a2	48	THR	CA-C-N	8.73	130.75	119.84
1	a2	48	THR	C-N-CA	8.73	130.75	119.84
1	ar	183	ASN	OD1-CG-ND2	-8.73	113.87	122.60
1	c	207	PRO	N-CA-CB	8.73	112.41	103.25
1	hv	15	ILE	N-CA-CB	8.72	120.52	110.49
1	hM	28	GLU	CA-C-N	8.72	132.32	120.54
1	hM	28	GLU	C-N-CA	8.72	132.32	120.54
1	hQ	124	ILE	CB-CA-C	8.72	120.05	110.71
1	is	129	ILE	O-C-N	-8.72	113.34	121.89
1	j1	173	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	k7	33	SER	CA-C-O	-8.72	113.12	120.71
1	kn	18	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	ls	127	GLY	CA-C-N	8.72	131.97	120.28
1	ls	127	GLY	C-N-CA	8.72	131.97	120.28
1	5I	216	THR	N-CA-C	8.72	121.58	111.11
1	9f	219	GLN	OE1-CD-NE2	-8.72	113.88	122.60
1	ll	154	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	6h	198	CYS	CA-C-N	8.72	131.78	120.44
1	6h	198	CYS	C-N-CA	8.72	131.78	120.44
1	aG	177	ALA	N-CA-C	8.72	123.06	110.24
1	bx	219	GLN	OE1-CD-NE2	-8.72	113.88	122.60
1	cS	115	ILE	CA-C-N	8.72	129.62	119.94
1	cS	115	ILE	C-N-CA	8.72	129.62	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dv	154	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	dP	169	TYR	N-CA-C	8.72	121.89	111.33
1	gs	204	ALA	CA-C-N	8.72	132.84	120.28
1	gs	204	ALA	C-N-CA	8.72	132.84	120.28
1	6f	190	LEU	CA-C-N	8.72	131.72	120.56
1	6f	190	LEU	C-N-CA	8.72	131.72	120.56
1	6L	200	THR	N-CA-C	8.72	120.40	111.07
1	aJ	146	SER	O-C-N	-8.72	112.56	121.28
1	h1	162	ARG	NE-CZ-NH1	8.72	130.22	121.50
1	hF	134	ILE	N-CA-C	8.72	119.51	110.62
1	ih	82	ARG	CA-C-O	8.72	129.66	120.42
1	ip	205	LEU	N-CA-C	8.72	120.40	111.07
1	iT	221	VAL	O-C-N	-8.72	113.39	122.63
1	ir	63	GLN	N-CA-C	8.72	123.22	112.23
1	kw	142	VAL	O-C-N	-8.72	112.85	121.83
1	kG	97	ARG	O-C-N	-8.72	112.85	122.79
1	6p	168	PHE	CA-C-N	8.72	131.97	120.28
1	6p	168	PHE	C-N-CA	8.72	131.97	120.28
1	bg	154	ARG	NE-CZ-NH2	8.72	127.05	119.20
1	eJ	152	ASP	O-C-N	-8.72	113.09	122.07
1	2i	185	MET	CA-C-O	8.72	129.98	120.82
1	4T	76	GLU	CA-C-O	8.72	129.66	120.42
1	5j	84	HIS	CA-C-N	8.72	130.74	119.84
1	5j	84	HIS	C-N-CA	8.72	130.74	119.84
1	6I	163	ASP	CA-C-N	8.72	131.97	120.28
1	6I	163	ASP	C-N-CA	8.72	131.97	120.28
1	bh	152	ASP	CA-CB-CG	8.72	121.32	112.60
1	bw	55	MET	N-CA-C	8.72	121.94	111.82
1	cR	112	GLN	OE1-CD-NE2	-8.72	113.88	122.60
1	dg	163	ASP	CA-CB-CG	8.72	121.32	112.60
1	eN	37	ILE	O-C-N	-8.72	113.88	120.07
1	b	187	GLU	N-CA-C	8.72	120.87	111.36
1	fb	57	ASN	N-CA-C	8.72	121.88	111.33
1	c	64	ALA	N-CA-C	8.72	120.78	111.28
1	gb	19	THR	CA-C-O	8.72	130.23	120.90
1	gH	184	TRP	CA-C-N	8.72	132.31	120.54
1	gH	184	TRP	C-N-CA	8.72	132.31	120.54
1	ec	220	GLY	CA-C-N	-8.72	111.12	122.37
1	hr	16	SER	CA-C-O	-8.72	109.85	119.61
1	1P	53	ASN	CA-CB-CG	-8.72	103.88	112.60
1	kO	105	ALA	N-CA-C	8.72	123.47	113.01
1	3Y	111	LEU	N-CA-C	8.72	123.02	112.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4w	152	ASP	CA-CB-CG	-8.72	103.88	112.60
1	84	202	LEU	N-CA-C	8.72	120.78	111.28
1	8S	33	SER	N-CA-C	-8.72	99.06	110.39
1	dv	75	GLU	N-CA-C	8.72	120.78	111.28
1	3I	87	HIS	N-CA-C	8.72	121.58	110.33
1	5b	97	ARG	NE-CZ-NH2	8.72	127.05	119.20
1	7T	48	THR	CA-CB-OG1	8.72	122.67	109.60
1	dG	117	TRP	N-CA-C	8.72	121.74	111.71
1	dX	187	GLU	N-CA-C	8.72	120.86	111.36
1	ec	220	GLY	C-N-CA	-8.72	111.12	122.37
1	fV	12	HIS	CE1-NE2-CD2	-8.72	100.28	109.00
1	gk	33	SER	O-C-N	-8.71	113.63	121.39
1	iS	51	ASP	CA-C-O	8.71	129.97	120.82
1	5a	76	GLU	CB-CG-CD	8.72	127.42	112.60
1	eD	162	ARG	N-CA-C	8.72	121.57	111.11
1	jl	110	THR	CA-C-N	8.71	132.30	120.54
1	jl	110	THR	C-N-CA	8.71	132.30	120.54
1	kj	152	ASP	CA-C-N	8.71	129.84	121.65
1	kj	152	ASP	C-N-CA	8.71	129.84	121.65
1	kQ	80	TRP	CA-C-O	8.71	130.04	120.63
1	li	26	VAL	N-CA-C	8.72	119.51	110.36
1	lO	92	GLU	CA-C-N	8.71	130.73	119.84
1	lO	92	GLU	C-N-CA	8.71	130.73	119.84
1	38	73	ILE	O-C-N	-8.71	113.42	121.87
1	3S	126	VAL	N-CA-C	8.72	119.51	110.62
1	49	173	ARG	CA-C-N	8.71	135.93	122.42
1	49	173	ARG	C-N-CA	8.71	135.93	122.42
1	5R	161	PHE	O-C-N	-8.72	112.97	122.03
1	dh	27	VAL	N-CA-C	8.72	118.79	110.42
1	7R	121	ASN	CA-CB-CG	-8.71	103.89	112.60
1	8N	166	ASP	CA-C-N	8.71	132.30	120.54
1	8N	166	ASP	C-N-CA	8.71	132.30	120.54
1	8T	17	PRO	N-CA-C	-8.71	101.72	113.40
1	9l	59	VAL	CA-C-O	8.71	130.85	120.74
1	b7	177	ALA	N-CA-C	8.71	122.53	110.24
1	bk	162	ARG	N-CA-C	8.71	120.39	111.07
1	bH	203	LYS	O-C-N	-8.71	112.88	122.12
1	f0	58	THR	CA-C-N	8.71	132.82	120.53
1	f0	58	THR	C-N-CA	8.71	132.82	120.53
1	gN	133	TRP	CB-CG-CD2	-8.71	114.60	126.80
1	hi	182	LYS	CA-C-O	8.71	129.79	120.55
1	hy	74	ASN	OD1-CG-ND2	-8.71	113.89	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jh	13	GLN	O-C-N	-8.71	114.11	123.26
1	hb	161	PHE	CA-CB-CG	-8.71	105.09	113.80
1	hk	226	HIS	CE1-NE2-CD2	-8.71	100.29	109.00
1	1Y	154	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	kv	132	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	2f	64	ALA	CA-C-N	8.71	131.95	120.28
1	2f	64	ALA	C-N-CA	8.71	131.95	120.28
1	2l	139	ASN	CA-CB-CG	-8.71	103.89	112.60
1	4E	143	ARG	NE-CZ-NH1	8.71	130.21	121.50
1	4Z	195	ASN	O-C-N	-8.71	111.67	121.43
1	5e	143	ARG	CA-C-N	8.71	135.48	120.58
1	5e	143	ARG	C-N-CA	8.71	135.48	120.58
1	9B	53	ASN	CA-CB-CG	-8.71	103.89	112.60
1	9V	229	ARG	CA-C-N	8.71	132.17	120.50
1	cB	62	HIS	ND1-CG-CD2	8.71	114.81	106.10
1	ia	62	HIS	N-CA-C	8.71	123.14	111.30
1	3j	33	SER	O-C-N	-8.71	112.82	121.27
1	5k	3	VAL	CB-CA-C	8.71	120.84	111.35
1	6y	23	TRP	N-CA-C	8.71	120.78	111.28
1	9V	229	ARG	C-N-CA	8.71	132.17	120.50
1	11	145	TYR	CA-C-N	8.71	132.50	120.65
1	11	145	TYR	C-N-CA	8.71	132.50	120.65
1	aU	117	TRP	N-CA-C	8.71	121.87	111.33
1	c3	193	ASN	CA-CB-CG	-8.71	103.89	112.60
1	cX	114	GLN	O-C-N	-8.71	113.10	122.07
1	dB	116	GLY	N-CA-C	8.71	122.60	112.50
1	i2	32	PHE	N-CA-C	8.71	123.39	111.54
1	i8	38	PRO	N-CD-CG	8.71	116.26	103.20
1	3d	143	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	4u	33	SER	CA-C-N	8.71	130.73	119.84
1	gA	12	HIS	CE1-NE2-CD2	-8.71	100.29	109.00
1	iK	11	VAL	N-CA-CB	8.71	122.64	111.67
1	j1	166	ASP	CA-CB-CG	8.71	121.31	112.60
1	jr	194	ALA	CA-C-O	8.71	130.78	121.55
1	kR	124	ILE	O-C-N	-8.71	115.37	121.55
1	4u	33	SER	C-N-CA	8.71	130.73	119.84
1	bS	191	VAL	N-CA-C	8.71	119.50	110.62
1	lh	78	ALA	CA-C-O	8.71	129.78	120.55
1	3b	36	VAL	O-C-N	-8.71	113.42	121.87
1	4A	155	GLN	N-CA-C	8.71	122.52	110.24
1	5a	183	ASN	CA-CB-CG	-8.71	103.89	112.60
1	cg	214	MET	N-CA-C	8.71	120.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	43	LEU	CA-C-O	8.71	129.78	120.55
1	6N	217	ALA	N-CA-C	8.71	121.84	110.43
1	8V	120	HIS	CA-CB-CG	-8.71	105.09	113.80
1	9c	197	ASP	CA-CB-CG	8.71	121.31	112.60
1	9z	12	HIS	CA-CB-CG	8.71	122.51	113.80
1	9K	143	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	9Q	143	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	fs	102	SER	N-CA-C	8.71	120.77	111.28
1	gW	191	VAL	N-CA-C	8.71	119.51	110.72
1	hC	229	ARG	N-CA-C	8.71	123.07	110.10
1	hN	32	PHE	CA-CB-CG	-8.71	105.09	113.80
1	jU	167	ARG	NE-CZ-NH2	-8.71	111.36	119.20
1	2q	165	VAL	O-C-N	-8.71	113.43	121.87
1	58	124	ILE	N-CA-C	8.71	116.12	108.63
1	68	213	GLU	N-CA-C	8.71	120.39	111.07
1	6c	139	ASN	N-CA-C	8.71	120.77	111.28
1	eN	92	GLU	CA-C-N	8.71	128.78	119.90
1	lB	193	ASN	CA-CB-CG	-8.70	103.90	112.60
1	4z	116	GLY	CA-C-N	8.70	131.94	120.28
1	4z	116	GLY	C-N-CA	8.70	131.94	120.28
1	6I	68	MET	N-CA-C	8.70	120.38	111.07
1	6V	229	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	7J	27	VAL	N-CA-C	8.70	118.78	110.42
1	7Q	210	THR	CA-C-N	8.71	131.94	120.28
1	7Q	210	THR	C-N-CA	8.71	131.94	120.28
1	1i	89	GLY	CA-C-N	8.71	128.77	119.89
1	1i	89	GLY	C-N-CA	8.71	128.77	119.89
1	ew	62	HIS	ND1-CG-CD2	8.71	114.81	106.10
1	eN	92	GLU	C-N-CA	8.71	128.78	119.90
1	eK	3	VAL	O-C-N	-8.70	114.26	123.14
1	fn	211	LEU	CA-C-O	8.71	129.78	120.55
1	fo	134	ILE	O-C-N	-8.71	112.85	121.90
1	hE	106	GLY	CA-C-N	8.70	131.94	120.28
1	hE	106	GLY	C-N-CA	8.70	131.94	120.28
1	hO	212	GLU	CA-C-O	-8.70	111.68	120.82
1	1X	199	LYS	CA-C-N	8.70	131.75	120.44
1	2b	37	ILE	CA-C-O	-8.70	112.86	118.69
1	76	47	ALA	N-CA-CB	8.70	122.97	109.83
1	eh	214	MET	CA-C-N	8.70	131.94	120.28
1	hv	37	ILE	CA-C-O	8.70	124.52	118.69
1	iS	51	ASP	O-C-N	-8.70	113.11	122.07
1	1X	199	LYS	C-N-CA	8.70	131.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2m	53	ASN	CA-CB-CG	-8.70	103.90	112.60
1	94	163	ASP	CA-C-N	8.70	131.94	120.28
1	94	163	ASP	C-N-CA	8.70	131.94	120.28
1	a1	134	ILE	N-CA-C	8.70	119.50	110.62
1	eh	214	MET	C-N-CA	8.70	131.94	120.28
1	eT	45	GLU	N-CA-C	8.70	123.52	110.64
1	k8	136	LEU	CA-C-N	8.70	129.60	119.94
1	k8	136	LEU	C-N-CA	8.70	129.60	119.94
1	21	189	LEU	N-CA-C	8.70	120.77	111.28
1	kt	87	HIS	CA-CB-CG	8.70	122.50	113.80
1	3w	141	ILE	N-CA-C	8.70	119.50	110.62
1	11	143	ARG	NE-CZ-NH2	-8.70	111.37	119.20
1	ap	45	GLU	O-C-N	-8.70	111.44	123.01
1	cj	184	TRP	N-CA-C	8.70	120.77	111.28
1	6M	226	HIS	CE1-NE2-CD2	-8.70	100.30	109.00
1	bJ	33	SER	O-C-N	-8.70	114.32	121.80
1	cl	72	THR	N-CA-CB	8.70	122.91	110.12
1	cL	182	LYS	O-C-N	-8.70	112.90	122.12
1	1i	175	GLU	O-C-N	-8.70	113.06	123.16
1	1j	13	GLN	OE1-CD-NE2	-8.70	113.90	122.60
1	dq	97	ARG	NH1-CZ-NH2	-8.70	107.99	119.30
1	f4	187	GLU	N-CA-C	8.70	120.38	111.07
1	hl	173	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	hV	213	GLU	CA-C-N	8.70	131.75	120.44
1	hV	213	GLU	C-N-CA	8.70	131.75	120.44
1	hx	32	PHE	CA-C-N	8.70	133.90	120.68
1	hx	32	PHE	C-N-CA	8.70	133.90	120.68
1	hC	185	MET	N-CA-C	8.70	120.76	111.28
1	hR	174	ALA	N-CA-CB	-8.70	97.13	110.44
1	i2	97	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	j2	173	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	kk	103	ASP	CA-C-N	8.70	131.52	120.56
1	kk	103	ASP	C-N-CA	8.70	131.52	120.56
1	lM	181	VAL	N-CA-C	8.70	119.49	110.36
1	2i	181	VAL	CA-C-N	8.70	131.94	120.28
1	2i	181	VAL	C-N-CA	8.70	131.94	120.28
1	2C	78	ALA	O-C-N	-8.70	112.90	122.12
1	3G	115	ILE	CA-C-N	8.70	129.63	119.98
1	3G	115	ILE	C-N-CA	8.70	129.63	119.98
1	3V	48	THR	O-C-N	-8.70	112.38	121.60
1	4t	95	GLN	N-CA-C	8.70	122.18	110.35
1	5b	58	THR	N-CA-C	8.70	120.76	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	41	SER	N-CA-CB	8.70	122.91	110.12
1	6t	168	PHE	CA-CB-CG	-8.70	105.10	113.80
1	6x	40	PHE	CA-CB-CG	-8.70	105.10	113.80
1	7w	74	ASN	O-C-N	-8.70	112.90	122.12
1	9b	27	VAL	N-CA-C	8.70	119.49	110.62
1	9i	33	SER	CA-C-O	-8.70	112.77	120.60
1	9x	201	ILE	N-CA-C	8.70	118.77	110.42
1	aQ	184	TRP	CE2-CD2-CE3	8.70	127.50	118.80
1	fo	167	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	b	99	PRO	N-CA-CB	-8.70	97.40	103.23
1	gI	32	PHE	CA-CB-CG	-8.70	105.10	113.80
1	gv	90	PRO	CA-C-O	-8.70	111.53	121.36
1	h3	7	GLN	N-CA-C	8.70	121.55	110.24
1	h9	85	PRO	N-CA-C	8.70	124.94	111.11
1	lD	155	GLN	OE1-CD-NE2	-8.70	113.90	122.60
1	35	18	ARG	NE-CZ-NH1	8.70	130.20	121.50
1	J	150	ILE	N-CA-C	8.70	119.49	110.62
1	1F	39	MET	N-CA-C	8.69	120.37	111.07
1	j4	203	LYS	CA-C-O	-8.70	111.20	120.42
1	kg	199	LYS	N-CA-C	8.70	120.38	111.07
1	di	173	ARG	NE-CZ-NH2	-8.70	111.37	119.20
1	jz	87	HIS	CA-CB-CG	8.69	122.49	113.80
1	2A	61	GLY	CA-C-N	8.69	134.50	122.07
1	2A	61	GLY	C-N-CA	8.69	134.50	122.07
1	2E	170	LYS	N-CA-C	8.70	120.76	111.28
1	2J	94	GLY	O-C-N	-8.70	115.93	122.71
1	2T	187	GLU	CA-C-O	8.69	129.77	120.55
1	2X	105	ALA	CA-C-N	8.70	136.78	122.09
1	2X	105	ALA	C-N-CA	8.70	136.78	122.09
1	4a	231	LEU	N-CA-CB	8.70	125.28	110.50
1	4u	165	VAL	CA-C-N	8.70	132.13	120.65
1	4u	165	VAL	C-N-CA	8.70	132.13	120.65
1	7A	68	MET	N-CA-C	8.70	120.76	111.28
1	97	39	MET	O-C-N	-8.70	113.11	122.07
1	eu	13	GLN	CB-CG-CD	8.70	127.38	112.60
1	51	154	ARG	NE-CZ-NH2	-8.69	111.38	119.20
1	5U	147	PRO	CA-C-N	8.69	133.06	120.71
1	5U	147	PRO	C-N-CA	8.69	133.06	120.71
1	7d	8	GLY	CA-C-N	8.69	134.26	121.31
1	7d	8	GLY	C-N-CA	8.69	134.26	121.31
1	aS	143	ARG	CA-C-N	8.70	132.64	120.29
1	aS	143	ARG	C-N-CA	8.70	132.64	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	229	ARG	N-CA-C	8.70	121.54	110.24
1	ds	97	ARG	NE-CZ-NH2	-8.70	111.38	119.20
1	fn	172	LEU	CA-C-N	8.69	131.93	120.28
1	fn	172	LEU	C-N-CA	8.69	131.93	120.28
1	P	224	PRO	N-CA-CB	-8.69	95.60	103.25
1	3q	87	HIS	CA-CB-CG	-8.69	105.11	113.80
1	6v	218	CYS	N-CA-CB	8.69	125.18	110.49
1	1l	168	PHE	CB-CA-C	8.69	124.53	110.88
1	A	187	GLU	O-C-N	-8.69	112.91	122.12
1	i9	81	ASP	O-C-N	-8.69	112.91	122.12
1	jj	120	HIS	CA-CB-CG	8.69	122.49	113.80
1	jz	227	LYS	CA-C-O	8.69	129.74	119.48
1	ln	48	THR	O-C-N	-8.69	111.70	121.43
1	4k	204	ALA	N-CA-C	8.69	120.37	111.07
1	5A	120	HIS	CA-CB-CG	8.69	122.49	113.80
1	6I	76	GLU	CA-C-O	8.69	129.76	120.55
1	7f	173	ARG	NE-CZ-NH2	-8.69	111.38	119.20
1	9d	130	TYR	N-CA-C	8.69	121.70	111.71
1	9y	113	GLU	N-CA-C	8.69	121.62	111.02
1	1a	114	GLN	N-CA-C	8.69	121.90	111.82
1	ee	37	ILE	O-C-N	-8.69	113.90	120.07
1	fE	69	LEU	CA-C-N	8.69	131.93	120.28
1	fE	69	LEU	C-N-CA	8.69	131.93	120.28
1	fP	61	GLY	CA-C-N	8.69	135.16	122.82
1	fP	61	GLY	C-N-CA	8.69	135.16	122.82
1	gH	100	ARG	NE-CZ-NH2	-8.69	111.38	119.20
1	gK	98	GLU	O-C-N	-8.69	113.57	121.30
1	hx	36	VAL	CA-C-N	8.69	127.28	120.33
1	hx	36	VAL	C-N-CA	8.69	127.28	120.33
1	1K	97	ARG	NE-CZ-NH2	-8.69	111.38	119.20
1	60	123	PRO	N-CA-C	8.69	124.88	111.15
1	fk	13	GLN	OE1-CD-NE2	-8.69	113.91	122.60
1	iA	223	GLY	CA-C-N	8.69	128.75	119.89
1	iA	223	GLY	C-N-CA	8.69	128.75	119.89
1	1Y	198	CYS	CA-C-N	8.69	132.27	120.54
1	1Y	198	CYS	C-N-CA	8.69	132.27	120.54
1	jZ	84	HIS	CE1-NE2-CD2	-8.69	100.31	109.00
1	km	126	VAL	N-CA-C	8.69	120.53	110.62
1	42	27	VAL	N-CA-C	8.69	119.48	110.62
1	92	92	GLU	CA-C-O	-8.69	112.06	119.36
1	lj	103	ASP	CA-C-N	8.69	132.76	120.42
1	lj	103	ASP	C-N-CA	8.69	132.76	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lM	163	ASP	CA-CB-CG	-8.69	103.91	112.60
1	2w	67	GLN	CA-C-N	8.69	131.74	120.44
1	2w	67	GLN	C-N-CA	8.69	131.74	120.44
1	66	190	LEU	N-CA-C	8.69	120.37	111.07
1	3Y	56	LEU	N-CA-C	8.69	120.75	111.28
1	93	56	LEU	N-CA-C	8.69	120.75	111.28
1	aY	36	VAL	CA-C-N	8.69	127.28	120.33
1	aY	36	VAL	C-N-CA	8.69	127.28	120.33
1	cc	70	LYS	N-CA-C	8.69	120.75	111.28
1	V	62	HIS	N-CA-C	8.69	121.08	110.91
1	X	111	LEU	CA-C-N	8.69	131.73	120.44
1	X	111	LEU	C-N-CA	8.69	131.73	120.44
1	j6	90	PRO	CA-C-N	8.69	132.18	120.63
1	j6	90	PRO	C-N-CA	8.69	132.18	120.63
1	jw	114	GLN	N-CA-CB	-8.69	97.35	110.12
1	3U	36	VAL	N-CA-CB	8.69	120.71	110.55
1	40	42	ALA	N-CA-C	8.69	120.75	111.28
1	4B	167	ARG	NE-CZ-NH1	8.69	130.19	121.50
1	4C	191	VAL	N-CA-C	8.69	118.76	110.42
1	6z	143	ARG	N-CA-C	8.69	120.75	111.28
1	6D	173	ARG	NE-CZ-NH2	-8.69	111.38	119.20
1	bx	38	PRO	N-CA-CB	8.69	112.89	103.33
1	9b	40	PHE	CA-CB-CG	-8.69	105.11	113.80
1	aN	150	ILE	N-CA-C	8.69	119.48	110.62
1	co	206	GLY	CA-C-N	8.69	128.71	119.76
1	co	206	GLY	C-N-CA	8.69	128.71	119.76
1	di	21	ASN	CA-C-N	8.69	131.92	120.28
1	di	21	ASN	C-N-CA	8.69	131.92	120.28
1	1q	201	ILE	O-C-N	-8.69	113.44	121.87
1	er	74	ASN	CA-CB-CG	8.69	121.29	112.60
1	ew	114	GLN	CA-C-N	8.69	132.36	120.46
1	ew	114	GLN	C-N-CA	8.69	132.36	120.46
1	l	126	VAL	CA-C-N	8.69	129.58	119.94
1	l	126	VAL	C-N-CA	8.69	129.58	119.94
1	f9	144	MET	N-CA-C	8.69	120.36	111.07
1	fN	214	MET	N-CA-C	8.69	120.52	111.14
1	lq	97	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	bi	170	LYS	N-CA-C	8.68	120.75	111.28
1	gn	160	PRO	CA-C-N	8.68	132.62	120.29
1	gn	160	PRO	C-N-CA	8.68	132.62	120.29
1	1T	154	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	lM	100	ARG	CA-C-N	8.68	129.55	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lM	100	ARG	C-N-CA	8.68	129.55	120.00
1	5T	129	ILE	N-CA-CB	8.68	120.71	110.55
1	78	133	TRP	CA-C-N	8.68	131.50	120.56
1	78	133	TRP	C-N-CA	8.68	131.50	120.56
1	1y	26	VAL	O-C-N	8.68	130.78	121.83
1	7l	131	LYS	CA-C-O	-8.68	111.70	120.82
1	aZ	82	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	bH	203	LYS	CA-C-O	8.68	129.75	120.55
1	cz	36	VAL	CA-C-N	8.68	127.28	120.33
1	cz	36	VAL	C-N-CA	8.68	127.28	120.33
1	db	37	ILE	CB-CA-C	8.68	121.95	113.70
1	dO	29	GLU	CA-C-N	8.68	132.62	120.29
1	dO	29	GLU	C-N-CA	8.68	132.62	120.29
1	dT	77	ALA	O-C-N	-8.68	112.92	122.12
1	dZ	150	ILE	CA-C-N	8.68	131.91	120.28
1	dZ	150	ILE	C-N-CA	8.68	131.91	120.28
1	x	146	SER	CA-C-N	8.68	130.69	119.84
1	x	146	SER	C-N-CA	8.68	130.69	119.84
1	I	81	ASP	O-C-N	-8.68	112.92	122.12
1	gP	124	ILE	O-C-N	-8.68	114.02	121.57
1	2C	78	ALA	CA-C-O	8.68	129.75	120.55
1	7A	36	VAL	O-C-N	-8.68	113.45	121.87
1	gS	189	LEU	CA-C-N	8.68	132.27	120.38
1	gS	189	LEU	C-N-CA	8.68	132.27	120.38
1	iV	43	LEU	O-C-N	8.68	131.32	122.12
1	eK	12	HIS	CE1-NE2-CD2	-8.68	100.32	109.00
1	la	57	ASN	OD1-CG-ND2	-8.68	113.92	122.60
1	3n	22	ALA	CA-C-N	8.68	131.91	120.28
1	3n	22	ALA	C-N-CA	8.68	131.91	120.28
1	3I	26	VAL	O-C-N	-8.68	113.72	122.14
1	6F	7	GLN	OE1-CD-NE2	-8.68	113.92	122.60
1	92	138	LEU	CA-C-N	8.68	132.27	120.38
1	bg	195	ASN	CA-C-N	8.68	130.69	119.84
1	ci	143	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	6Q	156	GLY	CA-C-O	-8.68	114.04	122.46
1	8c	53	ASN	O-C-N	-8.68	112.92	122.12
1	92	138	LEU	C-N-CA	8.68	132.27	120.38
1	bg	195	ASN	C-N-CA	8.68	130.69	119.84
1	1e	154	ARG	NE-CZ-NH1	8.68	130.18	121.50
1	8N	115	ILE	CA-C-N	8.68	129.80	119.99
1	8N	115	ILE	C-N-CA	8.68	129.80	119.99
1	9v	217	ALA	CA-C-O	8.68	130.75	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1a	33	SER	O-C-N	-8.68	115.31	121.65
1	bU	75	GLU	N-CA-C	8.68	120.74	111.28
1	e2	156	GLY	O-C-N	-8.68	113.09	121.77
1	e8	67	GLN	N-CA-C	8.68	120.74	111.28
1	fw	119	THR	N-CA-C	-8.68	102.44	113.72
1	i2	51	ASP	N-CA-C	8.68	121.52	111.11
1	2a	125	PRO	CA-C-O	8.68	128.06	121.38
1	9b	53	ASN	CA-CB-CG	-8.68	103.92	112.60
1	18	80	TRP	O-C-N	-8.68	112.92	122.12
1	e4	226	HIS	CA-CB-CG	-8.68	105.12	113.80
1	w	178	SER	O-C-N	-8.68	112.71	123.12
1	gK	32	PHE	CA-C-N	8.68	133.87	120.60
1	gK	32	PHE	C-N-CA	8.68	133.87	120.60
1	hM	32	PHE	CA-CB-CG	-8.68	105.12	113.80
1	iL	24	VAL	O-C-N	-8.68	112.89	121.83
1	ld	136	LEU	CA-C-N	8.68	129.54	120.00
1	ld	136	LEU	C-N-CA	8.68	129.54	120.00
1	7L	213	GLU	N-CA-C	8.68	120.74	111.28
1	bJ	162	ARG	N-CA-C	8.68	121.52	111.11
1	bN	223	GLY	CA-C-N	8.68	128.39	119.19
1	iV	197	ASP	N-CA-C	8.68	120.35	111.07
1	jx	62	HIS	CA-CB-CG	8.68	122.47	113.80
1	lr	199	LYS	N-CA-C	8.68	120.74	111.28
1	2J	124	ILE	O-C-N	-8.68	115.90	121.37
1	3M	22	ALA	N-CA-C	8.68	120.74	111.28
1	bN	223	GLY	C-N-CA	8.68	128.39	119.19
1	5y	18	ARG	NE-CZ-NH2	8.68	127.01	119.20
1	6s	165	VAL	O-C-N	-8.68	113.27	121.94
1	6A	220	GLY	O-C-N	-8.68	114.68	122.57
1	6M	26	VAL	O-C-N	-8.68	113.41	121.91
1	6U	103	ASP	CA-CB-CG	8.68	121.28	112.60
1	93	92	GLU	N-CA-C	8.68	120.85	109.83
1	b1	62	HIS	ND1-CE1-NE2	8.68	117.08	108.40
1	dl	226	HIS	CE1-NE2-CD2	-8.68	100.33	109.00
1	dr	113	GLU	CA-C-N	8.68	132.26	120.38
1	dr	113	GLU	C-N-CA	8.68	132.26	120.38
1	fm	55	MET	N-CA-C	8.68	121.52	111.11
1	l	18	ARG	NE-CZ-NH2	-8.68	111.39	119.20
1	1M	12	HIS	CE1-NE2-CD2	-8.67	100.33	109.00
1	jv	44	SER	O-C-N	-8.67	111.10	122.20
1	5O	8	GLY	O-C-N	-8.67	114.53	122.77
1	h1	137	GLY	O-C-N	-8.67	113.86	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h1	139	ASN	CA-C-N	8.67	132.77	120.28
1	h1	139	ASN	C-N-CA	8.67	132.77	120.28
1	hY	155	GLN	CA-C-N	8.67	135.49	121.87
1	hY	155	GLN	C-N-CA	8.67	135.49	121.87
1	ie	115	ILE	CA-C-N	8.67	129.74	120.03
1	ie	115	ILE	C-N-CA	8.67	129.74	120.03
1	ld	41	SER	O-C-N	-8.67	113.14	122.07
1	8U	36	VAL	N-CA-C	8.67	119.47	110.62
1	10	136	LEU	CA-C-N	8.67	129.57	119.94
1	10	136	LEU	C-N-CA	8.67	129.57	119.94
1	jf	53	ASN	CA-CB-CG	-8.67	103.93	112.60
1	4B	75	GLU	N-CA-C	8.67	120.73	111.28
1	5j	28	GLU	N-CA-CB	8.67	122.58	110.01
1	5N	98	GLU	CA-C-O	-8.67	111.39	120.23
1	98	173	ARG	N-CA-C	8.67	120.73	111.28
1	db	186	THR	CA-C-O	8.67	129.61	120.42
1	dB	160	PRO	CB-CA-C	8.67	122.49	111.39
1	1P	9	GLN	CA-C-N	8.67	133.09	120.95
1	1P	9	GLN	C-N-CA	8.67	133.09	120.95
1	55	168	PHE	CA-CB-CG	-8.67	105.13	113.80
1	h1	74	ASN	N-CA-C	8.67	120.73	111.28
1	hQ	143	ARG	NE-CZ-NH2	-8.67	111.40	119.20
1	iK	183	ASN	CB-CA-C	-8.67	96.40	110.79
1	23	56	LEU	N-CA-C	8.67	120.73	111.28
1	kG	98	GLU	CA-C-O	-8.67	112.04	119.76
1	34	124	ILE	CA-C-O	-8.67	112.36	119.47
1	3B	144	MET	N-CA-CB	-8.67	97.28	110.20
1	5y	143	ARG	NE-CZ-NH1	8.67	130.17	121.50
1	bb	146	SER	CA-C-O	-8.67	112.91	120.19
1	86	124	ILE	O-C-N	-8.67	115.91	121.37
1	ax	164	TYR	N-CA-C	8.67	120.35	111.07
1	bF	226	HIS	CE1-NE2-CD2	-8.67	100.33	109.00
1	d0	39	MET	N-CA-C	8.67	120.73	111.28
1	e7	166	ASP	CA-CB-CG	8.67	121.27	112.60
1	eT	129	ILE	CB-CA-C	-8.67	100.87	111.97
1	E	32	PHE	CA-CB-CG	-8.67	105.13	113.80
1	iv	133	TRP	N-CA-C	8.67	120.73	111.28
1	j0	186	THR	CA-C-N	8.67	131.71	120.44
1	gd	69	LEU	N-CA-C	8.67	120.34	111.07
1	i7	189	LEU	CA-C-N	8.67	132.24	120.54
1	i7	189	LEU	C-N-CA	8.67	132.24	120.54
1	iT	202	LEU	N-CA-CB	8.67	122.58	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j0	186	THR	C-N-CA	8.67	131.71	120.44
1	kV	115	ILE	CA-C-N	8.67	129.78	119.99
1	kV	115	ILE	C-N-CA	8.67	129.78	119.99
1	lm	125	PRO	N-CA-CB	8.67	109.12	102.36
1	iU	82	ARG	N-CA-C	8.67	121.87	111.82
1	j1	98	GLU	CA-C-O	-8.67	112.91	119.32
1	3i	120	HIS	CE1-NE2-CD2	-8.67	100.33	109.00
1	4U	146	SER	CA-C-O	-8.67	110.47	118.79
1	cW	12	HIS	ND1-CE1-NE2	8.67	117.07	108.40
1	dO	116	GLY	O-C-N	-8.67	113.55	122.13
1	5s	206	GLY	CA-C-N	8.67	128.81	119.28
1	5s	206	GLY	C-N-CA	8.67	128.81	119.28
1	5W	78	ALA	CA-C-N	8.67	131.89	120.28
1	5W	78	ALA	C-N-CA	8.67	131.89	120.28
1	6Y	20	LEU	N-CA-C	8.67	120.34	111.07
1	7b	37	ILE	O-C-N	-8.67	114.87	120.42
1	f5	15	ILE	N-CA-C	8.67	121.91	109.51
1	9w	87	HIS	CE1-NE2-CD2	-8.67	100.33	109.00
1	db	181	VAL	O-C-N	-8.67	113.27	121.94
1	dk	112	GLN	CA-C-N	8.67	131.71	120.44
1	dk	112	GLN	C-N-CA	8.67	131.71	120.44
1	f2	136	LEU	CA-C-N	8.67	129.74	120.03
1	f2	136	LEU	C-N-CA	8.67	129.74	120.03
1	gO	120	HIS	CE1-NE2-CD2	-8.66	100.33	109.00
1	i1	228	ALA	N-CA-C	8.66	120.72	111.28
1	ic	120	HIS	CB-CG-ND1	8.66	135.70	122.70
1	jO	31	ALA	N-CA-C	8.66	123.39	111.17
1	33	5	ASN	CA-CB-CG	-8.66	103.94	112.60
1	im	64	ALA	CA-C-N	8.66	131.89	120.28
1	im	64	ALA	C-N-CA	8.66	131.89	120.28
1	23	223	GLY	CA-C-N	8.66	130.67	119.84
1	23	223	GLY	C-N-CA	8.66	130.67	119.84
1	3N	34	PRO	CA-C-N	8.66	133.03	120.38
1	3N	34	PRO	C-N-CA	8.66	133.03	120.38
1	c6	100	ARG	NE-CZ-NH1	8.66	130.16	121.50
1	iI	190	LEU	N-CA-C	8.66	120.34	111.07
1	kH	81	ASP	CA-CB-CG	8.66	121.26	112.60
1	ll	62	HIS	CA-C-O	8.66	132.17	122.03
1	31	84	HIS	CA-CB-CG	8.66	122.46	113.80
1	5u	204	ALA	N-CA-C	8.66	120.34	111.07
1	5B	29	GLU	N-CA-C	8.66	121.51	111.11
1	8x	166	ASP	N-CA-C	8.66	121.51	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bv	90	PRO	N-CA-CB	8.66	110.89	103.35
1	cx	152	ASP	N-CA-C	-8.66	102.71	113.28
1	2j	25	LYS	N-CA-C	8.66	120.80	111.36
1	2p	5	ASN	CA-CB-CG	-8.66	103.94	112.60
1	2O	143	ARG	NH1-CZ-NH2	-8.66	108.04	119.30
1	3l	152	ASP	CA-CB-CG	8.66	121.26	112.60
1	4c	155	GLN	OE1-CD-NE2	8.66	131.26	122.60
1	5g	184	TRP	CA-C-N	8.66	133.48	120.31
1	5g	184	TRP	C-N-CA	8.66	133.48	120.31
1	6v	16	SER	CA-C-O	-8.66	111.39	120.23
1	90	84	HIS	CA-CB-CG	-8.66	105.14	113.80
1	9R	43	LEU	N-CA-C	8.66	120.72	111.28
1	aT	64	ALA	CA-C-N	8.66	131.70	120.44
1	aT	64	ALA	C-N-CA	8.66	131.70	120.44
1	bJ	163	ASP	O-C-N	-8.66	112.94	122.12
1	cn	183	ASN	CA-CB-CG	8.66	121.26	112.60
1	dv	212	GLU	CA-C-N	8.66	131.89	120.28
1	dv	212	GLU	C-N-CA	8.66	131.89	120.28
1	dH	182	LYS	CA-C-N	8.66	132.25	120.38
1	dH	182	LYS	C-N-CA	8.66	132.25	120.38
1	1r	115	ILE	CA-C-N	8.66	129.60	119.98
1	1r	115	ILE	C-N-CA	8.66	129.60	119.98
1	m	53	ASN	CA-CB-CG	-8.66	103.94	112.60
1	gk	68	MET	N-CA-C	8.66	120.72	111.28
1	hE	169	TYR	CA-C-N	8.66	132.25	120.38
1	hx	209	ALA	N-CA-C	8.66	122.13	110.35
1	hA	200	THR	CA-C-O	8.66	129.91	120.82
1	hE	169	TYR	C-N-CA	8.66	132.25	120.38
1	i9	12	HIS	CE1-NE2-CD2	-8.66	100.34	109.00
1	ir	170	LYS	CA-C-N	8.66	132.59	120.29
1	ir	170	LYS	C-N-CA	8.66	132.59	120.29
1	iV	21	ASN	CA-CB-CG	8.66	121.26	112.60
1	jv	18	ARG	NE-CZ-NH1	8.66	130.16	121.50
1	6p	143	ARG	NE-CZ-NH2	8.66	127.00	119.20
1	8l	112	GLN	CA-C-N	8.66	131.70	120.44
1	jE	33	SER	CA-C-O	-8.66	113.37	121.08
1	2j	161	PHE	CA-CB-CG	8.66	122.46	113.80
1	8l	112	GLN	C-N-CA	8.66	131.70	120.44
1	2C	209	ALA	O-C-N	-8.66	112.92	122.79
1	3G	18	ARG	CA-C-N	8.66	132.59	120.29
1	3G	18	ARG	C-N-CA	8.66	132.59	120.29
1	4p	89	GLY	CA-C-N	8.66	130.67	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4p	89	GLY	C-N-CA	8.66	130.67	119.84
1	73	63	GLN	OE1-CD-NE2	-8.66	113.94	122.60
1	a4	154	ARG	NE-CZ-NH1	8.66	130.16	121.50
1	al	159	GLU	CA-C-N	8.66	128.72	119.89
1	al	159	GLU	C-N-CA	8.66	128.72	119.89
1	ef	117	TRP	CB-CG-CD1	-8.66	113.91	126.90
1	c	84	HIS	CA-CB-CG	8.66	122.46	113.80
1	J	14	ALA	O-C-N	-8.66	113.17	122.96
1	fE	5	ASN	CA-CB-CG	8.66	121.26	112.60
1	h	226	HIS	CE1-NE2-CD2	-8.66	100.34	109.00
1	gi	153	ILE	N-CA-C	8.66	120.64	109.30
1	gk	37	ILE	N-CA-CB	-8.66	103.70	110.45
1	gk	134	ILE	O-C-N	-8.66	113.02	121.94
1	gq	139	ASN	CA-C-N	8.66	132.23	120.54
1	gq	139	ASN	C-N-CA	8.66	132.23	120.54
1	hk	183	ASN	CA-CB-CG	-8.66	103.94	112.60
1	iY	162	ARG	N-CA-C	8.66	121.86	111.82
1	1T	141	ILE	N-CA-CB	8.66	120.12	110.51
1	lv	137	GLY	CA-C-N	8.66	131.88	120.28
1	lv	137	GLY	C-N-CA	8.66	131.88	120.28
1	6c	8	GLY	CA-C-N	8.66	135.70	122.37
1	95	36	VAL	CA-C-N	8.66	127.26	120.33
1	ku	162	ARG	CA-C-N	8.66	132.58	120.29
1	ku	162	ARG	C-N-CA	8.66	132.58	120.29
1	lG	34	PRO	CA-C-N	8.66	133.47	120.31
1	lG	34	PRO	C-N-CA	8.66	133.47	120.31
1	6c	8	GLY	C-N-CA	8.66	135.70	122.37
1	6V	226	HIS	CB-CG-ND1	8.66	135.69	122.70
1	4k	45	GLU	O-C-N	-8.66	112.28	122.93
1	7s	97	ARG	O-C-N	-8.66	112.16	122.81
1	7x	36	VAL	CA-C-N	8.66	127.26	120.33
1	7x	36	VAL	C-N-CA	8.66	127.26	120.33
1	7M	154	ARG	NE-CZ-NH1	8.66	130.16	121.50
1	80	195	ASN	CA-CB-CG	8.66	121.26	112.60
1	95	36	VAL	C-N-CA	8.66	127.26	120.33
1	8C	209	ALA	CA-C-O	8.66	130.92	121.05
1	8T	120	HIS	CB-CG-CD2	-8.66	119.95	131.20
1	9W	36	VAL	CA-C-N	8.66	127.26	120.33
1	9W	36	VAL	C-N-CA	8.66	127.26	120.33
1	ap	4	GLN	N-CA-C	8.66	122.47	110.35
1	cP	126	VAL	N-CA-C	8.66	119.45	110.62
1	9W	68	MET	N-CA-C	8.66	120.72	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	en	124	ILE	CA-C-O	8.66	125.83	119.25
1	d	113	GLU	N-CA-C	8.66	121.67	111.71
1	gx	74	ASN	OD1-CG-ND2	-8.65	113.94	122.60
1	gX	175	GLU	N-CA-C	8.65	123.62	112.89
1	h7	37	ILE	O-C-N	-8.65	114.88	120.42
1	iO	40	PHE	CA-CB-CG	-8.65	105.15	113.80
1	23	213	GLU	N-CA-C	8.65	120.33	111.07
1	3Q	159	GLU	CA-C-O	-8.65	113.66	119.29
1	65	191	VAL	CA-C-N	8.65	131.69	120.44
1	65	191	VAL	C-N-CA	8.65	131.69	120.44
1	7k	89	GLY	CA-C-N	8.65	128.73	119.90
1	dI	33	SER	O-C-N	-8.65	115.79	121.85
1	fR	120	HIS	ND1-CE1-NE2	8.65	117.06	108.40
1	ls	144	MET	N-CA-C	8.65	120.71	111.28
1	5r	208	ALA	N-CA-C	8.65	122.62	108.52
1	6f	15	ILE	CB-CA-C	8.65	123.22	111.28
1	6x	111	LEU	CA-C-N	8.65	131.88	120.28
1	6x	111	LEU	C-N-CA	8.65	131.88	120.28
1	6C	56	LEU	O-C-N	-8.65	112.95	122.12
1	75	27	VAL	CA-C-N	8.65	132.07	120.65
1	75	27	VAL	C-N-CA	8.65	132.07	120.65
1	7a	59	VAL	N-CA-C	8.65	123.11	111.17
1	7e	16	SER	N-CA-C	8.65	122.02	110.08
1	7k	89	GLY	C-N-CA	8.65	128.73	119.90
1	7z	116	GLY	O-C-N	-8.65	113.79	122.19
1	aa	124	ILE	CA-C-O	-8.65	111.31	119.62
1	8t	69	LEU	CA-C-O	8.65	130.16	120.90
1	99	123	PRO	N-CA-CB	-8.65	95.79	102.28
1	a4	57	ASN	CA-CB-CG	-8.65	103.95	112.60
1	bc	203	LYS	CA-C-N	8.65	131.88	120.28
1	bc	203	LYS	C-N-CA	8.65	131.88	120.28
1	1f	92	GLU	CA-C-O	-8.65	111.63	120.02
1	dp	217	ALA	N-CA-C	8.65	123.29	110.48
1	Q	143	ARG	NE-CZ-NH2	-8.65	111.41	119.20
1	gc	170	LYS	CA-C-N	8.65	131.69	120.44
1	gc	170	LYS	C-N-CA	8.65	131.69	120.44
1	hw	160	PRO	CA-C-N	8.65	133.80	120.82
1	hw	160	PRO	C-N-CA	8.65	133.80	120.82
1	ie	68	MET	CA-C-N	8.65	131.69	120.44
1	ie	68	MET	C-N-CA	8.65	131.69	120.44
1	iA	131	LYS	N-CA-C	8.65	120.71	111.28
1	aB	100	ARG	CA-C-N	8.65	138.37	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gP	161	PHE	CA-C-N	8.65	131.87	120.28
1	gP	161	PHE	C-N-CA	8.65	131.87	120.28
1	kk	33	SER	CA-C-O	-8.65	111.37	119.76
1	kE	62	HIS	ND1-CG-CD2	8.65	114.75	106.10
1	l0	159	GLU	CA-C-N	8.65	128.41	119.76
1	l0	159	GLU	C-N-CA	8.65	128.41	119.76
1	le	30	LYS	O-C-N	-8.65	111.71	122.35
1	2f	136	LEU	CA-C-N	8.65	129.54	119.94
1	2f	136	LEU	C-N-CA	8.65	129.54	119.94
1	2w	140	LYS	N-CA-C	8.65	120.33	111.07
1	30	128	GLU	N-CA-C	8.65	120.71	111.28
1	3u	134	ILE	N-CA-CB	8.65	120.67	110.55
1	3R	36	VAL	CA-C-N	8.65	128.74	120.43
1	3R	36	VAL	C-N-CA	8.65	128.74	120.43
1	4i	82	ARG	NE-CZ-NH2	-8.65	111.41	119.20
1	4r	188	THR	CA-C-N	8.65	131.87	120.28
1	4r	188	THR	C-N-CA	8.65	131.87	120.28
1	4F	53	ASN	CA-CB-CG	-8.65	103.95	112.60
1	12	132	ARG	NE-CZ-NH1	8.65	130.15	121.50
1	aV	99	PRO	CB-CA-C	-8.65	103.53	111.40
1	7	201	ILE	O-C-N	-8.65	113.43	121.91
1	4A	21	ASN	CA-C-N	8.65	131.87	120.28
1	4A	21	ASN	C-N-CA	8.65	131.87	120.28
1	5a	126	VAL	N-CA-C	8.65	119.46	110.72
1	5V	76	GLU	N-CA-C	8.65	120.33	111.07
1	98	85	PRO	CA-C-N	8.65	132.38	120.35
1	98	85	PRO	C-N-CA	8.65	132.38	120.35
1	aB	100	ARG	C-N-CA	8.65	138.37	121.41
1	aJ	132	ARG	CA-C-N	8.65	131.68	120.44
1	aJ	132	ARG	C-N-CA	8.65	131.68	120.44
1	aM	169	TYR	O-C-N	-8.65	112.95	122.12
1	ci	44	SER	CA-C-N	8.65	132.74	120.28
1	ci	44	SER	C-N-CA	8.65	132.74	120.28
1	aV	33	SER	CA-C-N	8.65	130.65	119.84
1	aV	33	SER	C-N-CA	8.65	130.65	119.84
1	cm	226	HIS	CA-CB-CG	-8.65	105.15	113.80
1	fS	229	ARG	NE-CZ-NH2	-8.65	111.42	119.20
1	iX	159	GLU	CA-C-O	-8.65	112.06	119.76
1	kk	211	LEU	N-CA-C	8.65	121.66	111.71
1	lk	196	PRO	CA-C-N	8.65	131.68	120.44
1	lk	196	PRO	C-N-CA	8.65	131.68	120.44
1	4D	154	ARG	NE-CZ-NH1	8.65	130.15	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	74	97	ARG	NE-CZ-NH2	-8.65	111.42	119.20
1	84	108	THR	N-CA-CB	8.65	123.41	110.95
1	87	52	LEU	N-CA-C	8.65	120.32	111.07
1	cX	12	HIS	CE1-NE2-CD2	-8.65	100.35	109.00
1	ei	73	ILE	N-CA-C	8.65	118.72	110.42
1	gP	57	ASN	CA-C-N	8.65	135.16	120.72
1	gP	57	ASN	C-N-CA	8.65	135.16	120.72
1	j0	154	ARG	NE-CZ-NH1	8.65	130.15	121.50
1	k1	226	HIS	CA-CB-CG	8.65	122.45	113.80
1	2B	181	VAL	N-CA-C	8.65	118.72	110.42
1	2F	128	GLU	O-C-N	-8.65	112.95	122.12
1	5g	118	MET	N-CA-C	8.65	120.70	111.28
1	5C	135	ILE	O-C-N	-8.65	110.76	122.26
1	6j	22	ALA	CA-C-N	8.65	131.68	120.44
1	6j	22	ALA	C-N-CA	8.65	131.68	120.44
1	8v	55	MET	N-CA-C	8.65	120.32	111.07
1	5Z	2	ILE	O-C-N	-8.65	114.10	123.18
1	6k	166	ASP	CA-CB-CG	8.65	121.25	112.60
1	7M	154	ARG	NH1-CZ-NH2	-8.65	108.06	119.30
1	98	195	ASN	CA-C-N	8.65	130.65	119.84
1	98	195	ASN	C-N-CA	8.65	130.65	119.84
1	9F	211	LEU	CA-C-N	8.65	131.87	120.28
1	9F	211	LEU	C-N-CA	8.65	131.87	120.28
1	11	143	ARG	NE-CZ-NH1	8.65	130.15	121.50
1	bw	126	VAL	CA-C-N	8.65	129.58	119.98
1	bw	126	VAL	C-N-CA	8.65	129.58	119.98
1	eM	149	SER	CA-C-N	8.65	132.31	120.46
1	eM	149	SER	C-N-CA	8.65	132.31	120.46
1	gb	16	SER	O-C-N	-8.64	113.14	121.18
1	go	22	ALA	N-CA-C	8.64	121.48	111.11
1	1F	57	ASN	OD1-CG-ND2	-8.64	113.96	122.60
1	2X	151	LEU	O-C-N	-8.64	112.96	122.12
1	je	29	GLU	N-CA-C	8.64	120.47	111.14
1	k1	37	ILE	CA-C-N	8.64	128.27	118.85
1	k1	37	ILE	C-N-CA	8.64	128.27	118.85
1	kd	82	ARG	NE-CZ-NH2	8.64	126.98	119.20
1	ky	34	PRO	N-CA-C	-8.64	105.69	114.68
1	kV	98	GLU	CA-C-N	8.64	130.65	119.84
1	kV	98	GLU	C-N-CA	8.64	130.65	119.84
1	l3	93	PRO	CA-C-N	8.64	130.94	120.14
1	l3	93	PRO	C-N-CA	8.64	130.94	120.14
1	4X	13	GLN	OE1-CD-NE2	-8.64	113.96	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5k	133	TRP	CA-C-N	8.64	131.45	120.56
1	5k	133	TRP	C-N-CA	8.64	131.45	120.56
1	5V	173	ARG	NE-CZ-NH2	-8.64	111.42	119.20
1	6z	168	PHE	CA-CB-CG	8.64	122.44	113.80
1	7O	33	SER	N-CA-C	-8.64	98.22	108.25
1	9P	20	LEU	CA-C-N	8.64	131.86	120.28
1	9P	20	LEU	C-N-CA	8.64	131.86	120.28
1	bu	112	GLN	N-CA-C	8.64	120.70	111.28
1	6E	82	ARG	NE-CZ-NH1	8.64	130.14	121.50
1	6V	112	GLN	N-CA-C	8.64	121.65	111.71
1	9A	200	THR	CA-C-N	8.64	131.62	120.56
1	9A	200	THR	C-N-CA	8.64	131.62	120.56
1	a1	176	GLN	O-C-N	-8.64	112.62	122.91
1	aa	132	ARG	N-CA-C	8.64	120.32	111.07
1	ai	82	ARG	NE-CZ-NH2	-8.64	111.42	119.20
1	cI	143	ARG	NE-CZ-NH2	8.64	126.98	119.20
1	cZ	18	ARG	CA-C-O	8.64	129.58	120.42
1	ed	166	ASP	CB-CA-C	8.64	124.56	110.90
1	t	126	VAL	N-CA-C	8.64	119.44	110.62
1	gi	119	THR	CA-C-N	8.64	133.52	120.82
1	gi	119	THR	C-N-CA	8.64	133.52	120.82
1	j7	101	GLY	N-CA-C	8.64	123.37	112.83
1	jh	98	GLU	O-C-N	-8.64	112.64	121.28
1	jz	221	VAL	N-CA-C	8.64	121.87	109.51
1	k1	146	SER	O-C-N	-8.64	113.40	121.35
1	kZ	67	GLN	CA-C-N	8.64	131.86	120.28
1	kZ	67	GLN	C-N-CA	8.64	131.86	120.28
1	lu	160	PRO	CA-C-N	8.64	131.67	120.44
1	lu	160	PRO	C-N-CA	8.64	131.67	120.44
1	lv	4	GLN	CA-C-N	8.64	138.05	121.54
1	lv	4	GLN	C-N-CA	8.64	138.05	121.54
1	4e	65	ALA	CA-C-N	8.64	131.86	120.28
1	4e	65	ALA	C-N-CA	8.64	131.86	120.28
1	8V	37	ILE	CA-C-O	-8.64	111.50	118.85
1	3f	229	ARG	NE-CZ-NH2	-8.64	111.42	119.20
1	64	36	VAL	CA-C-N	8.64	125.68	120.24
1	64	36	VAL	C-N-CA	8.64	125.68	120.24
1	6z	142	VAL	O-C-N	-8.64	113.44	121.91
1	a2	21	ASN	OD1-CG-ND2	-8.64	113.96	122.60
1	d	189	LEU	CA-C-N	8.64	132.21	120.54
1	11	158	LYS	N-CA-C	-8.64	100.71	112.03
1	aP	102	SER	N-CA-C	8.64	120.70	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16	229	ARG	N-CA-C	8.64	121.47	110.24
1	d	189	LEU	C-N-CA	8.64	132.21	120.54
1	h	62	HIS	CA-C-N	8.64	131.86	120.28
1	dq	89	GLY	CA-C-N	8.64	130.64	119.84
1	dq	89	GLY	C-N-CA	8.64	130.64	119.84
1	ed	179	GLN	N-CA-C	8.64	120.70	111.28
1	h	62	HIS	C-N-CA	8.64	131.86	120.28
1	ew	217	ALA	N-CA-C	8.64	122.10	110.35
1	1	117	TRP	N-CA-C	8.64	120.70	111.28
1	m	37	ILE	N-CA-CB	8.64	117.19	110.45
1	L	74	ASN	CA-CB-CG	-8.64	103.96	112.60
1	9	62	HIS	CA-C-N	8.64	132.20	120.54
1	9	62	HIS	C-N-CA	8.64	132.20	120.54
1	1F	96	MET	N-CA-C	8.64	120.47	111.14
1	1J	109	SER	CA-C-O	8.64	129.69	120.36
1	im	68	MET	CA-C-N	8.64	131.67	120.44
1	im	68	MET	C-N-CA	8.64	131.67	120.44
1	6q	180	GLU	N-CA-C	8.64	121.48	111.11
1	7I	175	GLU	N-CA-C	8.64	122.10	110.35
1	94	189	LEU	CA-C-N	8.64	131.67	120.44
1	aw	145	TYR	N-CA-C	8.64	121.94	111.40
1	hs	200	THR	N-CA-C	8.64	120.31	111.07
1	jV	186	THR	CA-C-N	8.64	131.85	120.28
1	jV	186	THR	C-N-CA	8.64	131.85	120.28
1	k3	24	VAL	N-CA-C	8.64	119.44	110.72
1	l3	56	LEU	N-CA-C	8.64	120.70	111.28
1	2l	154	ARG	NE-CZ-NH2	8.64	126.97	119.20
1	3m	228	ALA	N-CA-C	8.64	120.69	111.28
1	4c	173	ARG	NE-CZ-NH2	-8.64	111.43	119.20
1	5E	48	THR	N-CA-CB	8.64	119.76	109.74
1	94	189	LEU	C-N-CA	8.64	131.67	120.44
1	bG	23	TRP	O-C-N	-8.64	113.17	122.07
1	8m	166	ASP	CA-CB-CG	8.64	121.24	112.60
1	9Q	126	VAL	CA-C-N	8.64	130.94	120.14
1	9Q	126	VAL	C-N-CA	8.64	130.94	120.14
1	c3	184	TRP	CA-C-N	8.64	131.67	120.44
1	c3	184	TRP	C-N-CA	8.64	131.67	120.44
1	ch	101	GLY	CA-C-N	8.64	132.55	120.29
1	ch	101	GLY	C-N-CA	8.64	132.55	120.29
1	dg	20	LEU	CA-C-N	8.64	132.21	120.38
1	dg	20	LEU	C-N-CA	8.64	132.21	120.38
1	el	203	LYS	N-CA-C	8.64	120.69	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	63	GLN	N-CA-C	8.64	120.69	111.28
1	P	172	LEU	CA-C-N	8.64	131.67	120.44
1	P	172	LEU	C-N-CA	8.64	131.67	120.44
1	gl	86	VAL	CA-C-N	8.64	133.52	120.82
1	gl	86	VAL	C-N-CA	8.64	133.52	120.82
1	hf	219	GLN	OE1-CD-NE2	-8.64	113.96	122.60
1	9I	63	GLN	OE1-CD-NE2	-8.64	113.96	122.60
1	em	122	PRO	N-CA-C	8.64	121.24	110.70
1	gs	229	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	gQ	206	GLY	CA-C-N	8.63	128.37	119.56
1	gQ	206	GLY	C-N-CA	8.63	128.37	119.56
1	h5	190	LEU	CA-C-O	8.63	129.96	120.63
1	jz	32	PHE	CA-CB-CG	-8.63	105.17	113.80
1	3r	132	ARG	N-CA-C	8.64	120.69	111.28
1	9b	89	GLY	CA-C-N	8.64	130.64	119.84
1	9b	89	GLY	C-N-CA	8.64	130.64	119.84
1	jR	59	VAL	CA-C-N	8.63	129.52	119.94
1	jR	59	VAL	C-N-CA	8.63	129.52	119.94
1	lw	75	GLU	N-CA-C	8.63	120.69	111.28
1	lD	86	VAL	O-C-N	-8.63	113.86	122.67
1	2w	101	GLY	O-C-N	-8.64	112.87	122.28
1	2z	96	MET	CA-C-O	8.63	129.54	120.30
1	5L	79	GLU	O-C-N	-8.64	113.17	122.07
1	ap	212	GLU	CA-C-N	8.64	131.85	120.28
1	ap	212	GLU	C-N-CA	8.64	131.85	120.28
1	c6	28	GLU	N-CA-C	8.64	120.31	111.07
1	ad	189	LEU	CA-C-O	-8.63	111.75	120.82
1	bu	148	THR	CA-CB-OG1	8.63	122.55	109.60
1	dh	192	GLN	N-CA-C	8.64	122.80	111.75
1	dP	81	ASP	CA-CB-CG	8.63	121.23	112.60
1	q	124	ILE	CA-C-O	-8.63	111.68	119.71
1	ge	186	THR	N-CA-CB	8.63	122.81	110.12
1	jg	36	VAL	CA-C-N	8.63	127.24	120.33
1	jg	36	VAL	C-N-CA	8.63	127.24	120.33
1	lI	5	ASN	CA-CB-CG	8.63	121.23	112.60
1	8J	36	VAL	CA-C-N	8.63	128.72	120.43
1	8J	36	VAL	C-N-CA	8.63	128.72	120.43
1	g9	97	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	1D	132	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	i8	71	GLU	N-CA-C	8.63	120.69	111.28
1	iC	168	PHE	CA-CB-CG	8.63	122.43	113.80
1	jv	221	VAL	N-CA-C	8.63	120.95	109.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k6	103	ASP	CA-C-N	8.63	132.29	120.46
1	k6	103	ASP	C-N-CA	8.63	132.29	120.46
1	jG	4	GLN	O-C-N	-8.63	112.25	122.87
1	jY	102	SER	CA-C-O	8.63	129.70	120.55
1	kG	92	GLU	O-C-N	-8.63	113.62	121.30
1	2z	162	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	2E	126	VAL	N-CA-C	8.63	119.43	110.62
1	53	84	HIS	CA-CB-CG	-8.63	105.17	113.80
1	7B	174	ALA	N-CA-CB	-8.63	97.38	110.16
1	93	103	ASP	CA-CB-CG	8.63	121.23	112.60
1	az	167	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	cg	146	SER	N-CA-C	8.63	124.49	112.75
1	cm	169	TYR	N-CA-C	8.63	121.83	111.82
1	cK	69	LEU	CB-CA-C	8.63	124.43	110.88
1	fd	118	MET	N-CA-C	8.63	123.81	113.28
1	kP	25	LYS	N-CA-C	8.63	120.69	111.28
1	41	130	TYR	CA-C-N	8.63	131.66	120.44
1	41	130	TYR	C-N-CA	8.63	131.66	120.44
1	4a	36	VAL	CA-C-N	8.63	127.23	120.33
1	4a	36	VAL	C-N-CA	8.63	127.23	120.33
1	5g	127	GLY	O-C-N	-8.63	113.80	122.17
1	9D	150	ILE	O-C-N	-8.63	113.43	121.89
1	cX	101	GLY	CA-C-N	8.63	132.54	120.29
1	cX	101	GLY	C-N-CA	8.63	132.54	120.29
1	dM	59	VAL	O-C-N	-8.63	113.87	122.67
1	fG	182	LYS	N-CA-C	8.63	120.69	111.28
1	fR	89	GLY	CA-C-O	-8.63	113.49	122.38
1	gE	84	HIS	O-C-N	-8.63	113.62	121.30
1	hY	166	ASP	CA-C-N	8.63	131.66	120.44
1	hY	166	ASP	C-N-CA	8.63	131.66	120.44
1	1W	5	ASN	CA-CB-CG	-8.63	103.97	112.60
1	kc	162	ARG	N-CA-C	8.63	121.63	111.71
1	7w	33	SER	CA-C-N	8.63	130.63	119.84
1	bA	216	THR	N-CA-CB	8.63	122.52	110.01
1	gr	51	ASP	O-C-N	-8.63	112.97	122.12
1	i4	179	GLN	N-CA-C	8.63	120.68	111.28
1	ia	228	ALA	CA-C-O	8.63	130.88	121.05
1	ij	129	ILE	N-CA-C	8.63	119.42	110.62
1	kK	74	ASN	N-CA-C	8.63	120.69	111.28
1	5k	124	ILE	O-C-N	-8.63	115.93	121.37
1	7w	33	SER	C-N-CA	8.63	130.63	119.84
1	22	36	VAL	CA-C-N	8.63	125.67	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	22	36	VAL	C-N-CA	8.63	125.67	120.24
1	lb	110	THR	O-C-N	-8.63	112.83	122.84
1	le	117	TRP	CA-C-O	-8.63	111.76	120.82
1	5K	18	ARG	NE-CZ-NH2	-8.63	111.43	119.20
1	8R	18	ARG	CA-C-N	8.63	131.66	120.44
1	8R	18	ARG	C-N-CA	8.63	131.66	120.44
1	bq	14	ALA	CA-C-N	8.63	132.06	120.50
1	3M	82	ARG	N-CA-C	8.63	120.68	111.28
1	8g	163	ASP	N-CA-C	8.63	121.63	111.71
1	9w	229	ARG	NE-CZ-NH1	8.63	130.13	121.50
1	9T	29	GLU	N-CA-C	8.63	120.61	111.03
1	b7	25	LYS	N-CA-C	8.63	120.69	111.28
1	bq	14	ALA	C-N-CA	8.63	132.06	120.50
1	ad	128	GLU	N-CA-C	8.63	120.30	111.07
1	az	63	GLN	OE1-CD-NE2	-8.63	113.97	122.60
1	dP	195	ASN	CA-CB-CG	8.63	121.23	112.60
1	dX	110	THR	CA-CB-OG1	8.63	122.54	109.60
1	fi	79	GLU	CA-C-N	8.63	131.66	120.44
1	fi	79	GLU	C-N-CA	8.63	131.66	120.44
1	gG	65	ALA	O-C-N	-8.63	112.98	122.12
1	iC	125	PRO	CA-C-N	8.63	132.28	120.46
1	iC	125	PRO	C-N-CA	8.63	132.28	120.46
1	lw	98	GLU	O-C-N	-8.63	113.62	121.30
1	hq	5	ASN	CA-CB-CG	8.62	121.22	112.60
1	hI	50	GLN	N-CA-C	8.62	120.68	111.28
1	hZ	187	GLU	N-CA-C	8.62	120.68	111.28
1	iq	117	TRP	N-CA-C	8.62	120.76	111.36
1	9W	107	THR	N-CA-C	8.62	120.68	111.28
1	c9	62	HIS	CB-CG-CD2	-8.63	119.99	131.20
1	ar	134	ILE	N-CA-CB	8.62	120.64	110.55
1	aT	97	ARG	CA-C-O	8.62	130.82	121.16
1	d3	140	LYS	N-CA-C	8.62	121.63	111.71
1	dn	143	ARG	NH1-CZ-NH2	-8.62	108.09	119.30
1	dw	136	LEU	CA-C-N	8.62	129.51	119.94
1	dw	136	LEU	C-N-CA	8.62	129.51	119.94
1	ep	48	THR	CA-CB-OG1	8.62	122.54	109.60
1	2E	210	THR	N-CA-C	8.62	122.92	110.24
1	ev	188	THR	CA-C-O	8.62	125.80	119.68
1	fY	53	ASN	N-CA-C	-8.62	101.96	111.36
1	gj	97	ARG	NE-CZ-NH2	8.62	126.96	119.20
1	gM	138	LEU	CA-C-N	8.62	132.19	120.38
1	gM	138	LEU	C-N-CA	8.62	132.19	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	154	ARG	NE-CZ-NH2	-8.62	111.44	119.20
1	hf	121	ASN	CA-C-O	-8.62	111.27	119.55
1	jm	120	HIS	CB-CG-CD2	8.62	142.41	131.20
1	2v	212	GLU	CA-C-N	8.62	132.18	120.54
1	2v	212	GLU	C-N-CA	8.62	132.18	120.54
1	3C	126	VAL	CA-C-N	8.62	129.55	119.98
1	3C	126	VAL	C-N-CA	8.62	129.55	119.98
1	3U	55	MET	N-CA-C	8.62	120.29	111.07
1	5Z	190	LEU	CA-C-O	-8.62	111.67	120.90
1	5Z	212	GLU	N-CA-C	8.62	121.76	111.33
1	6l	167	ARG	NE-CZ-NH1	8.62	130.12	121.50
1	7c	25	LYS	N-CA-C	8.62	120.30	111.07
1	7B	210	THR	N-CA-C	-8.62	99.41	110.53
1	9v	89	GLY	CA-C-O	-8.62	109.19	121.52
1	c7	84	HIS	CA-C-N	8.62	130.62	119.84
1	c7	84	HIS	C-N-CA	8.62	130.62	119.84
1	8i	171	THR	CA-C-N	8.62	131.83	120.28
1	8i	171	THR	C-N-CA	8.62	131.83	120.28
1	9s	216	THR	CA-C-N	8.62	133.06	120.90
1	9s	216	THR	C-N-CA	8.62	133.06	120.90
1	az	139	ASN	O-C-N	-8.62	112.98	122.12
1	bL	120	HIS	CG-CD2-NE2	8.62	115.82	107.20
1	1c	14	ALA	N-CA-CB	8.62	122.58	110.17
1	cO	163	ASP	CA-CB-CG	8.62	121.22	112.60
1	gq	155	GLN	OE1-CD-NE2	-8.62	113.98	122.60
1	ha	36	VAL	CA-C-N	8.62	128.71	120.43
1	ha	36	VAL	C-N-CA	8.62	128.71	120.43
1	hf	25	LYS	N-CA-C	8.62	120.29	111.07
1	21	22	ALA	CA-C-N	8.62	131.83	120.28
1	21	22	ALA	C-N-CA	8.62	131.83	120.28
1	2s	100	ARG	NE-CZ-NH2	-8.62	111.44	119.20
1	4M	75	GLU	N-CA-C	8.62	120.29	111.07
1	5M	124	ILE	O-C-N	-8.62	114.74	121.46
1	5V	162	ARG	NH1-CZ-NH2	-8.62	108.09	119.30
1	7p	215	MET	N-CA-C	8.62	123.06	112.54
1	10	229	ARG	NH1-CZ-NH2	-8.62	108.09	119.30
1	cE	33	SER	O-C-N	-8.62	115.76	121.88
1	gx	158	LYS	O-C-N	-8.62	112.00	122.25
1	1L	72	THR	O-C-N	-8.62	113.19	122.07
1	6M	101	GLY	O-C-N	-8.62	113.91	122.18
1	Z	162	ARG	NE-CZ-NH2	-8.62	111.44	119.20
1	ak	48	THR	O-C-N	-8.62	112.05	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	am	70	LYS	N-CA-C	8.62	120.29	111.07
1	bt	188	THR	CA-C-N	8.62	131.83	120.28
1	bt	188	THR	C-N-CA	8.62	131.83	120.28
1	c6	159	GLU	CA-C-N	8.62	128.64	119.76
1	c6	159	GLU	C-N-CA	8.62	128.64	119.76
1	cr	100	ARG	NH1-CZ-NH2	-8.62	108.10	119.30
1	dE	57	ASN	CA-CB-CG	-8.62	103.98	112.60
1	fD	179	GLN	N-CA-C	8.62	121.45	111.11
1	eB	214	MET	N-CA-C	8.62	120.67	111.28
1	fP	143	ARG	NE-CZ-NH2	-8.62	111.44	119.20
1	lJ	169	TYR	CA-C-O	-8.62	111.29	120.42
1	2F	111	LEU	N-CA-C	8.62	121.76	111.33
1	4E	91	ILE	N-CA-C	-8.62	104.74	113.10
1	7L	143	ARG	NE-CZ-NH1	8.62	130.12	121.50
1	aB	213	GLU	N-CA-C	8.62	120.67	111.28
1	a	65	ALA	N-CA-C	8.62	120.67	111.28
1	gB	170	LYS	N-CA-C	8.61	120.29	111.07
1	hT	36	VAL	CA-C-N	8.61	127.22	120.33
1	hT	36	VAL	C-N-CA	8.61	127.22	120.33
1	hU	32	PHE	CA-CB-CG	-8.62	105.19	113.80
1	hZ	193	ASN	OD1-CG-ND2	-8.61	113.99	122.60
1	jZ	143	ARG	NE-CZ-NH2	-8.61	111.45	119.20
1	k3	68	MET	CA-C-O	8.61	129.83	120.10
1	5E	25	LYS	N-CA-C	8.62	120.67	111.28
1	9g	36	VAL	CA-C-N	8.61	127.22	120.33
1	9g	36	VAL	C-N-CA	8.61	127.22	120.33
1	9z	195	ASN	O-C-N	-8.61	112.43	121.30
1	9I	40	PHE	CA-CB-CG	-8.62	105.19	113.80
1	aT	142	VAL	O-C-N	-8.62	113.32	121.94
1	bu	204	ALA	O-C-N	8.62	131.25	122.12
1	bx	179	GLN	O-C-N	8.62	132.02	122.20
1	cH	181	VAL	O-C-N	-8.62	113.47	121.91
1	fb	21	ASN	N-CA-C	8.61	121.75	111.33
1	hE	144	MET	N-CA-C	8.61	120.29	111.07
1	ke	57	ASN	CA-CB-CG	8.61	121.21	112.60
1	j2	100	ARG	CA-C-N	8.61	129.67	120.03
1	j2	100	ARG	C-N-CA	8.61	129.67	120.03
1	jQ	52	LEU	N-CA-C	8.61	120.28	111.07
1	kr	88	ALA	N-CA-C	8.61	122.41	110.35
1	4A	167	ARG	CA-C-O	8.61	129.57	120.70
1	4N	143	ARG	CA-C-N	8.61	131.82	120.28
1	4N	143	ARG	C-N-CA	8.61	131.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5W	57	ASN	CA-CB-CG	-8.61	103.99	112.60
1	6i	199	LYS	CA-C-N	8.61	131.82	120.28
1	6i	199	LYS	C-N-CA	8.61	131.82	120.28
1	3R	25	LYS	CA-C-O	8.61	129.86	120.82
1	6I	165	VAL	CA-C-N	8.61	131.63	120.44
1	6I	165	VAL	C-N-CA	8.61	131.63	120.44
1	6P	126	VAL	N-CA-C	8.61	120.44	110.62
1	7f	192	GLN	N-CA-C	8.61	120.67	111.28
1	7i	27	VAL	N-CA-C	8.61	119.40	110.62
1	8B	162	ARG	N-CA-C	8.61	121.81	111.82
1	8O	105	ALA	N-CA-C	-8.61	102.77	113.28
1	bJ	192	GLN	OE1-CD-NE2	-8.61	113.99	122.60
1	dR	142	VAL	N-CA-C	8.61	118.69	110.42
1	1z	143	ARG	NE-CZ-NH1	8.61	130.11	121.50
1	ej	193	ASN	CA-CB-CG	8.61	121.21	112.60
1	iU	84	HIS	CE1-NE2-CD2	-8.61	100.39	109.00
1	3q	26	VAL	N-CA-C	8.61	118.69	110.42
1	ic	107	THR	CA-C-O	8.61	129.54	120.42
1	ic	175	GLU	N-CA-C	8.61	120.66	111.28
1	iX	50	GLN	CA-C-O	8.61	129.68	120.55
1	4P	55	MET	N-CA-C	8.61	120.67	111.28
1	ku	168	PHE	CA-CB-CG	8.61	122.41	113.80
1	3R	65	ALA	N-CA-C	8.61	121.44	111.11
1	6W	76	GLU	CA-C-N	8.61	131.82	120.28
1	6W	76	GLU	C-N-CA	8.61	131.82	120.28
1	7W	164	TYR	N-CA-C	8.61	120.28	111.07
1	9i	26	VAL	CA-C-N	8.61	131.41	120.56
1	9i	26	VAL	C-N-CA	8.61	131.41	120.56
1	12	162	ARG	NE-CZ-NH1	8.61	130.11	121.50
1	cu	101	GLY	CA-C-N	8.61	132.68	120.28
1	cu	101	GLY	C-N-CA	8.61	132.68	120.28
1	cU	69	LEU	CA-C-O	8.61	129.86	120.82
1	eA	222	GLY	O-C-N	-8.61	115.99	122.71
1	D	5	ASN	CA-CB-CG	8.61	121.21	112.60
1	S	126	VAL	N-CA-C	8.61	119.42	110.72
1	aE	180	GLU	CA-C-N	8.61	131.58	120.56
1	aE	180	GLU	C-N-CA	8.61	131.58	120.56
1	1f	92	GLU	N-CA-C	8.61	119.50	109.60
1	dd	120	HIS	CE1-NE2-CD2	-8.61	100.39	109.00
1	1m	195	ASN	CA-C-N	8.61	128.23	118.85
1	1m	195	ASN	C-N-CA	8.61	128.23	118.85
1	eo	212	GLU	N-CA-C	8.61	120.28	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	22	ALA	N-CA-C	8.61	120.66	111.28
1	i0	38	PRO	CA-C-N	8.61	132.16	120.54
1	i0	38	PRO	C-N-CA	8.61	132.16	120.54
1	j4	171	THR	N-CA-C	8.61	121.61	111.71
1	1Z	159	GLU	N-CA-C	8.61	120.57	109.64
1	kt	122	PRO	CA-C-N	8.61	130.60	119.84
1	kt	122	PRO	C-N-CA	8.61	130.60	119.84
1	26	195	ASN	CA-C-O	-8.61	110.96	120.69
1	8O	133	TRP	N-CA-C	8.61	120.28	111.07
1	d8	42	ALA	N-CA-C	8.61	121.44	111.11
1	eV	36	VAL	CA-C-N	8.61	125.66	120.24
1	eV	36	VAL	C-N-CA	8.61	125.66	120.24
1	1	70	LYS	N-CA-C	8.61	121.81	111.82
1	9y	40	PHE	CA-CB-CG	-8.61	105.19	113.80
1	aH	83	LEU	N-CA-C	8.61	120.74	111.36
1	eZ	32	PHE	CA-CB-CG	-8.61	105.19	113.80
1	i	122	PRO	CA-C-N	8.61	129.12	119.83
1	i	122	PRO	C-N-CA	8.61	129.12	119.83
1	P	166	ASP	CA-C-N	8.61	131.63	120.44
1	P	166	ASP	C-N-CA	8.61	131.63	120.44
1	gN	46	GLY	N-CA-C	-8.60	104.24	114.48
1	1U	117	TRP	N-CA-C	8.60	121.60	111.71
1	jC	195	ASN	CA-C-O	-8.60	111.67	120.02
1	kJ	203	LYS	N-CA-C	8.60	120.74	111.36
1	l0	29	GLU	N-CA-C	8.60	120.43	111.14
1	2e	124	ILE	CA-C-O	-8.60	112.58	119.98
1	48	20	LEU	CA-C-O	8.60	129.67	120.55
1	4M	22	ALA	O-C-N	-8.60	113.00	122.12
1	6L	134	ILE	O-C-N	-8.60	113.34	121.94
1	6P	154	ARG	NH1-CZ-NH2	-8.60	108.11	119.30
1	8F	189	LEU	N-CA-C	8.60	120.28	111.07
1	8R	229	ARG	NE-CZ-NH2	-8.60	111.46	119.20
1	a2	196	PRO	CA-C-N	8.60	131.63	120.44
1	a2	196	PRO	C-N-CA	8.60	131.63	120.44
1	fu	193	ASN	CA-C-O	8.60	129.42	119.35
1	hD	50	GLN	OE1-CD-NE2	8.60	131.20	122.60
1	jw	186	THR	O-C-N	-8.60	113.21	122.07
1	2L	51	ASP	CA-CB-CG	-8.60	104.00	112.60
1	ci	228	ALA	N-CA-C	8.60	120.74	111.36
1	eV	113	GLU	CA-C-N	8.60	131.62	120.44
1	eV	113	GLU	C-N-CA	8.60	131.62	120.44
1	fD	62	HIS	ND1-CG-CD2	8.60	114.70	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3x	82	ARG	CA-C-N	8.60	131.62	120.44
1	3x	82	ARG	C-N-CA	8.60	131.62	120.44
1	3y	185	MET	CA-C-N	8.60	131.81	120.28
1	3y	185	MET	C-N-CA	8.60	131.81	120.28
1	3L	206	GLY	O-C-N	-8.60	113.17	121.77
1	4c	15	ILE	CA-C-O	8.60	130.18	121.58
1	4h	108	THR	N-CA-CB	8.60	123.62	110.80
1	5V	162	ARG	NE-CZ-NH2	8.60	126.94	119.20
1	6A	117	TRP	N-CA-C	8.60	120.27	111.07
1	8L	197	ASP	CA-C-O	8.60	129.67	120.55
1	a0	22	ALA	N-CA-C	8.60	121.43	111.11
1	aa	62	HIS	N-CA-C	8.60	120.97	110.91
1	bq	162	ARG	NE-CZ-NH1	8.60	130.10	121.50
1	bS	66	MET	CG-SD-CE	-8.60	81.98	100.90
1	dI	71	GLU	O-C-N	8.60	131.24	122.12
1	N	64	ALA	CA-C-N	8.60	132.15	120.54
1	N	64	ALA	C-N-CA	8.60	132.15	120.54
1	f0	24	VAL	N-CA-C	8.60	119.39	110.62
1	fH	163	ASP	O-C-N	-8.60	113.21	122.07
1	gd	36	VAL	CA-C-N	8.60	125.66	120.24
1	gd	36	VAL	C-N-CA	8.60	125.66	120.24
1	gK	62	HIS	ND1-CG-CD2	8.60	114.70	106.10
1	gZ	37	ILE	N-CA-CB	8.60	116.28	110.52
1	hf	210	THR	O-C-N	-8.60	112.69	122.75
1	hI	122	PRO	CA-C-N	8.60	130.59	119.84
1	hI	122	PRO	C-N-CA	8.60	130.59	119.84
1	j3	50	GLN	O-C-N	-8.60	113.00	122.12
1	jx	195	ASN	CA-CB-CG	8.60	121.20	112.60
1	jK	213	GLU	CA-C-N	8.60	132.66	120.28
1	jK	213	GLU	C-N-CA	8.60	132.66	120.28
1	2d	192	GLN	OE1-CD-NE2	8.60	131.20	122.60
1	2X	143	ARG	NE-CZ-NH1	8.60	130.10	121.50
1	5O	62	HIS	ND1-CG-CD2	8.60	114.70	106.10
1	7m	77	ALA	N-CA-C	8.60	121.43	111.11
1	e	164	TYR	CA-C-N	8.60	131.40	120.56
1	2G	92	GLU	N-CA-C	8.60	119.49	109.60
1	3n	58	THR	CA-C-N	8.60	133.24	120.69
1	3n	58	THR	C-N-CA	8.60	133.24	120.69
1	3A	167	ARG	NE-CZ-NH2	-8.60	111.46	119.20
1	5y	141	ILE	N-CA-C	8.60	119.39	110.62
1	6k	103	ASP	CA-C-N	8.60	131.39	120.56
1	6k	103	ASP	C-N-CA	8.60	131.39	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	82	ARG	NE-CZ-NH2	-8.60	111.46	119.20
1	9T	159	GLU	CA-C-O	-8.60	112.61	119.66
1	as	224	PRO	CA-C-N	8.60	135.37	122.30
1	as	224	PRO	C-N-CA	8.60	135.37	122.30
1	dt	62	HIS	CA-C-N	8.60	131.62	120.44
1	dt	62	HIS	C-N-CA	8.60	131.62	120.44
1	12	164	TYR	CA-C-N	8.60	131.69	120.60
1	12	164	TYR	C-N-CA	8.60	131.69	120.60
1	1b	161	PHE	CA-CB-CG	8.60	122.40	113.80
1	fR	139	ASN	O-C-N	-8.60	113.21	122.07
1	e	164	TYR	C-N-CA	8.60	131.40	120.56
1	1k	204	ALA	CA-C-N	8.60	131.80	120.28
1	1k	204	ALA	C-N-CA	8.60	131.80	120.28
1	dv	2	ILE	CA-C-N	8.60	134.53	123.10
1	dv	2	ILE	C-N-CA	8.60	134.53	123.10
1	dC	95	GLN	O-C-N	-8.60	113.21	123.27
1	e6	131	LYS	CA-C-N	8.60	131.62	120.44
1	e6	131	LYS	C-N-CA	8.60	131.62	120.44
1	fm	229	ARG	N-CA-C	8.60	122.77	109.96
1	1x	187	GLU	N-CA-C	8.60	120.27	111.07
1	50	76	GLU	CA-C-N	8.60	133.38	120.31
1	50	76	GLU	C-N-CA	8.60	133.38	120.31
1	6C	86	VAL	N-CA-CB	8.60	120.36	110.82
1	7l	37	ILE	O-C-N	8.60	126.17	120.07
1	8P	136	LEU	O-C-N	-8.60	113.01	122.12
1	18	53	ASN	CA-CB-CG	-8.60	104.00	112.60
1	2z	71	GLU	CA-C-N	8.60	131.80	120.28
1	2z	71	GLU	C-N-CA	8.60	131.80	120.28
1	3b	166	ASP	N-CA-C	8.60	121.42	111.11
1	6L	113	GLU	CA-C-N	8.60	131.62	120.44
1	6L	113	GLU	C-N-CA	8.60	131.62	120.44
1	8U	132	ARG	NE-CZ-NH2	-8.60	111.47	119.20
1	a3	89	GLY	O-C-N	-8.60	113.17	121.77
1	aH	120	HIS	CA-C-O	-8.60	112.44	121.55
1	bs	105	ALA	N-CA-CB	8.60	122.42	110.56
1	bt	23	TRP	N-CA-C	8.60	121.73	111.33
1	cp	11	VAL	O-C-N	-8.60	113.90	123.18
1	y	73	ILE	CA-C-N	8.60	131.80	120.28
1	y	73	ILE	C-N-CA	8.60	131.80	120.28
1	4	216	THR	N-CA-C	8.60	120.27	111.07
1	1I	55	MET	N-CA-C	8.59	120.27	111.07
1	kN	132	ARG	N-CA-C	8.59	120.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3A	171	THR	O-C-N	-8.59	111.70	122.27
1	3A	217	ALA	CA-C-N	8.59	134.36	122.07
1	3A	217	ALA	C-N-CA	8.59	134.36	122.07
1	5k	119	THR	CA-CB-OG1	8.59	122.49	109.60
1	5V	229	ARG	NE-CZ-NH1	8.59	130.09	121.50
1	60	53	ASN	OD1-CG-ND2	-8.59	114.01	122.60
1	do	69	LEU	CA-C-N	8.59	132.49	120.29
1	6D	70	LYS	N-CA-C	8.59	120.26	111.07
1	7k	166	ASP	CA-CB-CG	8.59	121.19	112.60
1	8o	159	GLU	O-C-N	-8.59	111.81	121.43
1	cK	55	MET	N-CA-C	8.59	120.27	111.07
1	do	69	LEU	C-N-CA	8.59	132.49	120.29
1	a3	41	SER	CA-C-N	8.59	132.49	120.29
1	a3	41	SER	C-N-CA	8.59	132.49	120.29
1	bC	193	ASN	OD1-CG-ND2	-8.59	114.01	122.60
1	bZ	100	ARG	N-CA-C	8.59	121.41	110.33
1	c9	145	TYR	N-CA-C	-8.59	102.35	112.92
1	dS	138	LEU	N-CA-C	8.59	120.65	111.28
1	es	222	GLY	CA-C-N	8.59	135.36	121.87
1	es	222	GLY	C-N-CA	8.59	135.36	121.87
1	et	92	GLU	CA-C-N	8.59	130.58	119.84
1	et	92	GLU	C-N-CA	8.59	130.58	119.84
1	e	67	GLN	OE1-CD-NE2	-8.59	114.01	122.60
1	ic	77	ALA	N-CA-C	8.59	120.64	111.28
1	jc	183	ASN	CA-CB-CG	-8.59	104.01	112.60
1	jB	105	ALA	CA-C-O	8.59	129.68	119.28
1	7j	195	ASN	CA-C-N	8.59	130.58	119.84
1	ig	24	VAL	N-CA-C	8.59	119.39	110.72
1	kO	126	VAL	N-CA-C	8.59	119.38	110.62
1	lE	37	ILE	CA-C-O	-8.59	112.93	118.69
1	2V	126	VAL	N-CA-C	8.59	119.38	110.62
1	3y	192	GLN	N-CA-C	8.59	120.26	111.07
1	5m	212	GLU	N-CA-C	8.59	121.72	111.33
1	5t	173	ARG	CA-C-O	8.59	130.52	121.07
1	7j	195	ASN	C-N-CA	8.59	130.58	119.84
1	8b	229	ARG	NE-CZ-NH1	8.59	130.09	121.50
1	br	191	VAL	O-C-N	-8.59	113.81	122.23
1	bP	82	ARG	NE-CZ-NH1	8.59	130.09	121.50
1	c	12	HIS	CE1-NE2-CD2	-8.59	100.41	109.00
1	4w	98	GLU	O-C-N	-8.59	114.77	121.47
1	4X	168	PHE	CA-CB-CG	8.59	122.39	113.80
1	5m	190	LEU	N-CA-C	8.59	121.72	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8E	120	HIS	O-C-N	-8.59	112.70	122.75
1	dX	166	ASP	O-C-N	-8.59	113.22	122.07
1	e3	205	LEU	N-CA-C	8.59	120.26	111.07
1	1x	198	CYS	O-C-N	-8.59	112.36	122.15
1	gW	195	ASN	CA-CB-CG	8.59	121.19	112.60
1	if	126	VAL	CA-CB-CG1	-8.59	95.80	110.40
1	iX	174	ALA	N-CA-C	8.59	120.26	111.07
1	jE	57	ASN	CA-C-N	8.59	132.13	120.54
1	jE	57	ASN	C-N-CA	8.59	132.13	120.54
1	lv	94	GLY	CA-C-N	8.59	135.90	122.93
1	lv	94	GLY	C-N-CA	8.59	135.90	122.93
1	2A	226	HIS	CA-CB-CG	8.59	122.39	113.80
1	3g	124	ILE	O-C-N	-8.59	113.13	121.12
1	bR	36	VAL	CA-C-N	8.59	128.67	120.43
1	i	173	ARG	N-CA-C	8.59	120.64	111.28
1	jo	173	ARG	NE-CZ-NH2	-8.59	111.47	119.20
1	km	42	ALA	CA-C-N	8.59	131.78	120.28
1	km	42	ALA	C-N-CA	8.59	131.78	120.28
1	l8	13	GLN	OE1-CD-NE2	-8.59	114.02	122.60
1	lq	211	LEU	O-C-N	-8.59	113.02	122.12
1	2n	125	PRO	CA-C-N	8.59	131.38	120.56
1	2n	125	PRO	C-N-CA	8.59	131.38	120.56
1	3D	4	GLN	N-CA-C	8.59	122.89	110.10
1	3Q	67	GLN	CA-C-N	8.59	131.78	120.28
1	3Q	67	GLN	C-N-CA	8.59	131.78	120.28
1	3V	120	HIS	CA-CB-CG	-8.59	105.22	113.80
1	5u	182	LYS	O-C-N	-8.59	113.16	122.09
1	7U	62	HIS	N-CA-C	8.59	123.43	111.92
1	8k	8	GLY	CA-C-O	-8.59	115.33	122.29
1	bR	36	VAL	C-N-CA	8.59	128.67	120.43
1	c8	153	ILE	N-CA-C	8.59	120.52	108.93
1	18	64	ALA	CA-C-N	8.59	132.12	120.44
1	18	64	ALA	C-N-CA	8.59	132.12	120.44
1	cL	131	LYS	CA-C-O	8.59	129.65	120.55
1	h	126	VAL	N-CA-C	8.59	119.38	110.62
1	gq	135	ILE	N-CA-C	8.58	120.41	110.62
1	gS	173	ARG	NE-CZ-NH1	8.58	130.08	121.50
1	1U	112	GLN	N-CA-C	8.58	120.25	111.07
1	jI	112	GLN	N-CA-C	8.58	120.64	111.28
1	k2	50	GLN	O-C-N	-8.58	112.18	122.22
1	lp	140	LYS	N-CA-CB	8.58	122.93	110.06
1	lB	176	GLN	OE1-CD-NE2	-8.58	114.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	130	TYR	CA-C-N	8.58	132.64	120.28
1	2L	130	TYR	C-N-CA	8.58	132.64	120.28
1	37	125	PRO	CA-C-N	8.58	132.22	120.46
1	37	125	PRO	C-N-CA	8.58	132.22	120.46
1	7v	80	TRP	CA-C-N	8.58	131.60	120.44
1	7v	80	TRP	C-N-CA	8.58	131.60	120.44
1	8Z	212	GLU	CA-C-N	8.58	132.48	120.29
1	8Z	212	GLU	C-N-CA	8.58	132.48	120.29
1	9o	19	THR	CA-C-N	8.58	131.60	120.44
1	9o	19	THR	C-N-CA	8.58	131.60	120.44
1	9D	129	ILE	N-CA-C	8.58	118.66	110.42
1	aa	120	HIS	CA-CB-CG	-8.58	105.22	113.80
1	aH	174	ALA	N-CA-C	8.58	120.25	111.07
1	bW	82	ARG	NE-CZ-NH2	-8.58	111.47	119.20
1	cb	131	LYS	CA-C-N	8.58	131.78	120.28
1	cb	131	LYS	C-N-CA	8.58	131.78	120.28
1	c6	32	PHE	CA-CB-CG	-8.58	105.22	113.80
1	d1	181	VAL	CB-CA-C	-8.58	100.38	112.22
1	d5	165	VAL	N-CA-C	8.58	119.38	110.62
1	fi	105	ALA	CA-C-N	8.58	134.82	120.91
1	fi	105	ALA	C-N-CA	8.58	134.82	120.91
1	dx	28	GLU	CA-C-N	8.58	131.78	120.28
1	dx	28	GLU	C-N-CA	8.58	131.78	120.28
1	f1	209	ALA	N-CA-CB	8.58	122.58	109.97
1	1w	200	THR	N-CA-C	8.58	121.72	111.33
1	fm	21	ASN	CA-C-N	8.58	131.78	120.28
1	fm	21	ASN	C-N-CA	8.58	131.78	120.28
1	3	5	ASN	CA-CB-CG	-8.58	104.02	112.60
1	gn	90	PRO	N-CA-CB	-8.58	96.11	103.32
1	gZ	63	GLN	N-CA-C	8.58	120.63	111.28
1	h7	87	HIS	ND1-CE1-NE2	8.58	116.98	108.40
1	jt	183	ASN	N-CA-C	8.58	121.41	111.11
1	67	12	HIS	CE1-NE2-CD2	-8.58	100.42	109.00
1	14	106	GLY	CA-C-N	8.58	132.12	120.54
1	ex	84	HIS	CA-C-N	8.58	128.62	119.78
1	k7	193	ASN	CA-C-N	8.58	134.41	120.94
1	k7	193	ASN	C-N-CA	8.58	134.41	120.94
1	lG	84	HIS	CA-CB-CG	-8.58	105.22	113.80
1	5j	98	GLU	N-CA-C	8.58	121.77	109.84
1	5z	37	ILE	N-CA-CB	8.58	117.14	110.45
1	8b	190	LEU	N-CA-C	8.58	120.63	111.28
1	9J	155	GLN	OE1-CD-NE2	-8.58	114.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14	106	GLY	C-N-CA	8.58	132.12	120.54
1	bu	138	LEU	CA-C-O	8.58	129.51	120.42
1	cb	94	GLY	CA-C-O	8.58	128.81	119.03
1	1o	59	VAL	CA-C-N	8.58	128.22	121.61
1	1o	59	VAL	C-N-CA	8.58	128.22	121.61
1	ex	84	HIS	C-N-CA	8.58	128.62	119.78
1	fn	75	GLU	N-CA-C	8.58	120.71	111.36
1	1	178	SER	CA-C-N	8.58	132.12	120.54
1	1	178	SER	C-N-CA	8.58	132.12	120.54
1	jY	184	TRP	CB-CG-CD1	-8.58	114.03	126.90
1	kd	51	ASP	CA-CB-CG	-8.58	104.02	112.60
1	M	103	ASP	CA-C-N	8.58	132.62	120.53
1	gd	162	ARG	NE-CZ-NH1	8.58	130.08	121.50
1	gO	149	SER	N-CA-CB	8.58	124.98	110.49
1	if	171	THR	CA-C-O	8.58	129.51	120.42
1	jB	176	GLN	N-CA-C	8.58	123.74	113.28
1	jW	154	ARG	NE-CZ-NH2	8.58	126.92	119.20
1	kj	58	THR	CA-C-O	8.58	129.64	120.55
1	kq	212	GLU	CA-C-N	8.58	131.59	120.44
1	kq	212	GLU	C-N-CA	8.58	131.59	120.44
1	kx	172	LEU	N-CA-C	8.58	121.77	111.82
1	kM	63	GLN	N-CA-C	8.58	120.25	111.07
1	kO	193	ASN	CA-CB-CG	-8.58	104.02	112.60
1	2y	55	MET	N-CA-CB	8.58	122.45	110.01
1	3D	63	GLN	CA-C-O	-8.58	111.33	120.42
1	6d	121	ASN	CA-C-O	-8.58	111.32	119.55
1	6s	143	ARG	CA-C-O	8.58	129.64	120.55
1	7x	191	VAL	O-C-N	-8.58	112.74	122.09
1	7T	133	TRP	CA-C-N	8.58	131.37	120.56
1	7T	133	TRP	C-N-CA	8.58	131.37	120.56
1	9y	18	ARG	NE-CZ-NH2	-8.58	111.48	119.20
1	fp	18	ARG	NE-CZ-NH1	8.58	130.08	121.50
1	M	103	ASP	C-N-CA	8.58	132.62	120.53
1	b4	154	ARG	NE-CZ-NH2	-8.58	111.48	119.20
1	bm	28	GLU	O-C-N	-8.58	113.03	122.12
1	1g	15	ILE	N-CA-C	8.58	127.18	109.34
1	dK	3	VAL	N-CA-C	8.58	120.64	109.58
1	dU	40	PHE	CA-CB-CG	-8.58	105.22	113.80
1	eb	168	PHE	CA-CB-CG	8.58	122.38	113.80
1	eg	55	MET	N-CA-C	8.58	120.25	111.07
1	eB	192	GLN	OE1-CD-NE2	-8.58	114.02	122.60
1	u	39	MET	CA-C-N	8.58	131.77	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	39	MET	C-N-CA	8.58	131.77	120.28
1	gg	193	ASN	OD1-CG-ND2	-8.57	114.03	122.60
1	1H	162	ARG	NH1-CZ-NH2	-8.57	108.15	119.30
1	i1	142	VAL	O-C-N	-8.57	113.51	121.91
1	3I	124	ILE	O-C-N	-8.57	115.46	121.55
1	bm	166	ASP	CA-C-N	8.57	131.59	120.44
1	1o	143	ARG	CA-C-O	8.57	129.64	120.55
1	gZ	100	ARG	CA-C-N	8.57	129.50	119.98
1	gZ	100	ARG	C-N-CA	8.57	129.50	119.98
1	iT	139	ASN	CA-CB-CG	8.57	121.17	112.60
1	iZ	172	LEU	CA-C-O	8.57	130.92	120.55
1	1V	56	LEU	O-C-N	-8.57	113.03	122.12
1	2S	162	ARG	CA-C-O	-8.57	111.46	120.55
1	6U	58	THR	N-CA-CB	8.57	123.43	110.22
1	fS	141	ILE	N-CA-C	8.57	119.37	110.62
1	jC	55	MET	N-CA-C	8.57	121.40	111.11
1	2W	135	ILE	N-CA-C	8.57	121.77	111.05
1	3T	144	MET	N-CA-C	8.57	120.40	111.14
1	5j	12	HIS	CA-C-N	8.57	136.73	122.33
1	5j	12	HIS	C-N-CA	8.57	136.73	122.33
1	5M	9	GLN	N-CA-C	8.57	122.84	110.24
1	60	12	HIS	CA-CB-CG	-8.57	105.22	113.80
1	61	221	VAL	N-CA-C	8.57	121.20	109.80
1	7a	229	ARG	CA-C-O	8.57	129.30	119.27
1	bm	166	ASP	C-N-CA	8.57	131.59	120.44
1	aF	23	TRP	CA-CB-CG	8.57	129.89	113.60
1	bt	198	CYS	CA-C-N	8.57	132.13	120.38
1	bt	198	CYS	C-N-CA	8.57	132.13	120.38
1	ci	50	GLN	CA-C-O	8.57	129.51	120.42
1	e3	229	ARG	NE-CZ-NH2	8.57	126.92	119.20
1	ff	27	VAL	O-C-N	-8.57	113.00	121.83
1	gc	142	VAL	CB-CA-C	-8.57	100.79	112.02
1	gX	133	TRP	N-CA-C	8.57	121.40	111.11
1	hr	221	VAL	N-CA-C	8.57	119.89	110.21
1	kU	65	ALA	N-CA-C	8.57	120.62	111.28
1	lL	183	ASN	CA-CB-CG	-8.57	104.03	112.60
1	hz	161	PHE	CA-CB-CG	-8.57	105.23	113.80
1	l4	223	GLY	O-C-N	-8.57	113.20	121.77
1	2N	134	ILE	N-CA-C	-8.57	102.47	110.53
1	3m	141	ILE	N-CA-C	8.57	118.59	110.53
1	5m	195	ASN	CA-C-N	8.57	128.15	119.24
1	5m	195	ASN	C-N-CA	8.57	128.15	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5t	103	ASP	CA-C-N	8.57	131.36	120.56
1	5t	103	ASP	C-N-CA	8.57	131.36	120.56
1	5V	26	VAL	N-CA-C	8.57	118.61	110.30
1	91	12	HIS	CA-CB-CG	-8.57	105.23	113.80
1	9s	133	TRP	CB-CG-CD1	8.57	139.76	126.90
1	a7	36	VAL	CA-C-N	8.57	127.19	120.33
1	a7	36	VAL	C-N-CA	8.57	127.19	120.33
1	bw	165	VAL	CA-C-N	8.57	132.71	120.79
1	bw	165	VAL	C-N-CA	8.57	132.71	120.79
1	d2	218	CYS	CA-C-N	8.57	137.91	121.54
1	d2	218	CYS	C-N-CA	8.57	137.91	121.54
1	ih	18	ARG	CA-C-O	8.57	129.50	120.42
1	j4	162	ARG	NE-CZ-NH2	-8.57	111.49	119.20
1	lh	57	ASN	N-CA-C	8.57	120.24	111.07
1	li	21	ASN	CA-CB-CG	8.57	121.17	112.60
1	2w	18	ARG	CA-C-N	8.57	131.76	120.28
1	2w	18	ARG	C-N-CA	8.57	131.76	120.28
1	3r	218	CYS	N-CA-CB	8.57	124.97	110.49
1	5I	42	ALA	CA-C-N	8.57	132.12	120.38
1	5I	42	ALA	C-N-CA	8.57	132.12	120.38
1	d9	27	VAL	N-CA-C	8.57	118.65	110.42
1	1y	33	SER	CA-C-N	8.57	128.22	119.56
1	4d	84	HIS	ND1-CE1-NE2	8.57	116.97	108.40
1	7f	101	GLY	N-CA-C	8.57	123.01	112.64
1	7w	63	GLN	N-CA-C	8.57	120.62	111.28
1	7D	28	GLU	CB-CA-C	8.57	124.33	110.88
1	8H	195	ASN	CA-C-N	8.57	129.09	119.32
1	8H	195	ASN	C-N-CA	8.57	129.09	119.32
1	9D	9	GLN	N-CA-C	8.57	122.66	110.23
1	14	214	MET	CA-C-O	-8.57	111.34	120.42
1	bq	95	GLN	N-CA-C	8.57	120.62	111.28
1	fk	141	ILE	N-CA-C	8.57	119.36	110.62
1	1y	33	SER	C-N-CA	8.57	128.22	119.56
1	fT	12	HIS	CE1-NE2-CD2	-8.57	100.43	109.00
1	fX	120	HIS	ND1-CE1-NE2	8.57	116.97	108.40
1	ge	73	ILE	N-CA-C	-8.57	102.48	110.53
1	1C	179	GLN	N-CA-C	8.57	121.39	111.11
1	gD	66	MET	N-CA-C	8.57	120.62	111.28
1	ho	229	ARG	NE-CZ-NH2	8.57	126.91	119.20
1	hM	16	SER	CA-C-N	8.57	129.09	119.32
1	hM	16	SER	C-N-CA	8.57	129.09	119.32
1	ih	124	ILE	O-C-N	-8.57	114.12	121.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	189	LEU	N-CA-C	8.57	120.62	111.28
1	kZ	119	THR	O-C-N	-8.57	111.87	122.24
1	kZ	197	ASP	O-C-N	-8.57	112.38	122.15
1	lz	28	GLU	O-C-N	-8.57	113.24	122.07
1	2w	133	TRP	O-C-N	-8.57	113.25	122.07
1	3j	180	GLU	CA-C-N	8.57	131.36	120.56
1	3j	180	GLU	C-N-CA	8.57	131.36	120.56
1	3r	219	GLN	N-CA-C	8.57	122.81	109.96
1	4v	66	MET	O-C-N	-8.57	112.38	122.15
1	5C	26	VAL	N-CA-C	8.57	119.37	110.72
1	6Z	222	GLY	N-CA-C	8.57	121.75	112.33
1	bf	216	THR	N-CA-C	8.57	120.62	111.28
1	bW	128	GLU	N-CA-C	8.57	120.62	111.28
1	4t	145	TYR	N-CA-C	8.57	120.24	111.07
1	5u	63	GLN	N-CA-C	8.57	120.70	111.36
1	6x	152	ASP	CA-CB-CG	-8.57	104.03	112.60
1	9x	9	GLN	OE1-CD-NE2	-8.57	114.03	122.60
1	ay	177	ALA	CA-C-N	8.57	133.68	120.75
1	ay	177	ALA	C-N-CA	8.57	133.68	120.75
1	bC	186	THR	CA-CB-OG1	8.57	122.45	109.60
1	co	32	PHE	CA-CB-CG	-8.57	105.23	113.80
1	dw	120	HIS	O-C-N	-8.57	112.52	122.97
1	dz	202	LEU	N-CA-C	8.57	121.56	111.71
1	eN	87	HIS	O-C-N	-8.57	112.33	122.27
1	m	100	ARG	NE-CZ-NH1	8.57	130.07	121.50
1	Q	100	ARG	CA-C-N	8.57	129.49	119.98
1	Q	100	ARG	C-N-CA	8.57	129.49	119.98
1	lu	162	ARG	NE-CZ-NH1	8.56	130.06	121.50
1	bm	148	THR	O-C-N	-8.56	113.46	123.22
1	gR	185	MET	O-C-N	-8.56	113.25	122.07
1	hR	193	ASN	CA-CB-CG	-8.56	104.04	112.60
1	i9	229	ARG	NE-CZ-NH2	8.56	126.91	119.20
1	iS	77	ALA	N-CA-C	8.56	120.61	111.28
1	lD	107	THR	O-C-N	-8.56	111.20	122.42
1	2u	159	GLU	CA-C-N	8.56	128.63	119.90
1	2u	159	GLU	C-N-CA	8.56	128.63	119.90
1	2z	81	ASP	N-CA-C	8.56	121.69	111.33
1	2S	41	SER	O-C-N	-8.56	113.18	122.09
1	3M	36	VAL	CA-C-N	8.56	127.18	120.33
1	3M	36	VAL	C-N-CA	8.56	127.18	120.33
1	3M	114	GLN	N-CA-C	8.56	120.62	111.28
1	bN	150	ILE	N-CA-C	8.56	119.36	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3d	122	PRO	CA-C-N	8.56	128.43	120.21
1	3d	122	PRO	C-N-CA	8.56	128.43	120.21
1	49	57	ASN	CA-CB-CG	-8.56	104.04	112.60
1	4i	84	HIS	CA-C-O	8.56	128.31	119.49
1	4T	229	ARG	NE-CZ-NH1	8.56	130.06	121.50
1	68	12	HIS	CA-CB-CG	-8.56	105.24	113.80
1	6X	133	TRP	N-CA-C	8.56	121.56	111.71
1	a2	129	ILE	O-C-N	-8.56	113.52	121.91
1	aB	29	GLU	N-CA-C	8.56	120.23	111.07
1	fZ	84	HIS	CE1-NE2-CD2	-8.56	100.44	109.00
1	bR	25	LYS	N-CA-C	8.56	120.61	111.28
1	v	13	GLN	O-C-N	-8.56	113.49	123.25
1	gf	161	PHE	CA-C-N	8.56	132.10	120.54
1	gf	161	PHE	C-N-CA	8.56	132.10	120.54
1	1L	80	TRP	N-CA-C	8.56	120.61	111.28
1	5Z	211	LEU	O-C-N	-8.56	113.04	122.12
1	bl	92	GLU	CA-C-O	8.56	126.64	118.34
1	gk	229	ARG	CA-C-O	8.56	128.91	119.15
1	ih	43	LEU	CA-C-N	8.56	132.11	120.38
1	ih	43	LEU	C-N-CA	8.56	132.11	120.38
1	jj	69	LEU	CA-C-N	8.56	131.75	120.28
1	jj	69	LEU	C-N-CA	8.56	131.75	120.28
1	7	132	ARG	N-CA-C	8.56	121.56	111.71
1	iG	18	ARG	NE-CZ-NH2	8.56	126.90	119.20
1	iY	124	ILE	CA-C-O	8.56	125.45	119.20
1	j4	14	ALA	N-CA-C	8.56	122.31	110.24
1	kR	37	ILE	O-C-N	-8.56	114.94	120.42
1	2j	168	PHE	CA-CB-CG	8.56	122.36	113.80
1	33	130	TYR	N-CA-CB	-8.56	97.44	110.20
1	6w	187	GLU	O-C-N	-8.56	113.05	122.12
1	Y	120	HIS	CA-CB-CG	8.56	122.36	113.80
1	bS	226	HIS	CB-CG-ND1	8.56	135.54	122.70
1	cH	169	TYR	CA-C-O	8.56	129.50	120.42
1	fx	52	LEU	CA-C-N	8.56	132.45	120.29
1	fx	52	LEU	C-N-CA	8.56	132.45	120.29
1	87	108	THR	CA-C-O	8.56	129.28	119.27
1	9z	57	ASN	N-CA-C	8.56	120.69	111.36
1	ai	37	ILE	CA-C-N	8.56	128.26	119.19
1	ai	37	ILE	C-N-CA	8.56	128.26	119.19
1	b8	112	GLN	N-CA-C	8.56	120.61	111.28
1	1o	225	GLY	CA-C-N	8.56	134.66	122.08
1	1o	225	GLY	C-N-CA	8.56	134.66	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	en	143	ARG	N-CA-C	8.56	120.23	111.07
1	er	103	ASP	CA-C-O	-8.56	111.35	120.42
1	eO	176	GLN	OE1-CD-NE2	-8.56	114.04	122.60
1	fx	161	PHE	CA-C-N	8.56	131.57	120.44
1	fx	161	PHE	C-N-CA	8.56	131.57	120.44
1	hM	25	LYS	N-CA-C	8.56	120.61	111.28
1	jJ	55	MET	N-CA-C	8.56	120.61	111.28
1	8f	78	ALA	CA-C-N	8.56	131.75	120.28
1	8Q	75	GLU	N-CA-C	8.56	120.61	111.28
1	gF	82	ARG	NE-CZ-NH1	8.56	130.06	121.50
1	jV	73	ILE	N-CA-CB	8.56	124.85	110.56
1	be	143	ARG	NE-CZ-NH2	8.56	126.90	119.20
1	kh	159	GLU	CA-C-N	8.56	128.63	119.90
1	kh	159	GLU	C-N-CA	8.56	128.63	119.90
1	ki	189	LEU	CA-C-N	8.56	131.56	120.44
1	ki	189	LEU	C-N-CA	8.56	131.56	120.44
1	km	159	GLU	CB-CA-C	8.56	118.64	110.17
1	2v	15	ILE	O-C-N	-8.56	114.49	122.79
1	2T	164	TYR	O-C-N	-8.56	113.19	122.09
1	4b	124	ILE	O-C-N	-8.56	115.98	121.37
1	8f	78	ALA	C-N-CA	8.56	131.75	120.28
1	4S	178	SER	CA-C-N	8.56	131.75	120.28
1	4S	178	SER	C-N-CA	8.56	131.75	120.28
1	5i	202	LEU	CA-C-O	8.56	129.62	120.55
1	5o	98	GLU	N-CA-C	8.56	120.70	109.83
1	9K	136	LEU	N-CA-C	8.56	120.38	111.14
1	16	162	ARG	NE-CZ-NH1	8.56	130.06	121.50
1	cC	221	VAL	CA-C-N	8.56	132.19	121.06
1	cC	221	VAL	C-N-CA	8.56	132.19	121.06
1	hx	130	TYR	N-CA-C	8.56	120.61	111.28
1	2v	196	PRO	CA-C-N	8.56	131.94	120.65
1	2v	196	PRO	C-N-CA	8.56	131.94	120.65
1	8X	22	ALA	N-CA-C	8.56	120.69	111.36
1	bn	60	GLY	CA-C-N	8.56	130.20	120.53
1	dn	143	ARG	CA-C-N	8.56	132.60	120.28
1	dn	143	ARG	C-N-CA	8.56	132.60	120.28
1	u	97	ARG	NE-CZ-NH1	8.56	130.06	121.50
1	j5	140	LYS	O-C-N	-8.55	113.05	122.12
1	jy	32	PHE	CA-CB-CG	-8.55	105.25	113.80
1	jG	81	ASP	N-CA-C	8.55	120.61	111.28
1	5X	182	LYS	N-CA-C	8.56	121.75	111.82
1	l5	200	THR	N-CA-CB	8.55	122.69	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l6	168	PHE	CA-CB-CG	-8.55	105.25	113.80
1	lc	184	TRP	CA-C-N	8.55	131.74	120.28
1	lc	184	TRP	C-N-CA	8.55	131.74	120.28
1	lP	180	GLU	O-C-N	-8.55	113.05	122.12
1	4w	53	ASN	CA-CB-CG	-8.55	104.05	112.60
1	5a	148	THR	CA-C-O	-8.55	112.08	121.23
1	6G	29	GLU	N-CA-C	8.55	122.21	111.69
1	6Z	102	SER	CA-C-N	8.55	132.44	120.29
1	6Z	102	SER	C-N-CA	8.55	132.44	120.29
1	7g	103	ASP	CA-C-N	8.55	132.18	120.46
1	7g	103	ASP	C-N-CA	8.55	132.18	120.46
1	7M	219	GLN	OE1-CD-NE2	-8.56	114.04	122.60
1	8O	67	GLN	CA-C-O	-8.56	111.84	120.82
1	bn	60	GLY	C-N-CA	8.56	130.20	120.53
1	8i	125	PRO	CA-C-N	8.55	132.18	120.46
1	8i	125	PRO	C-N-CA	8.55	132.18	120.46
1	8D	195	ASN	CA-C-N	8.55	130.53	119.84
1	8D	195	ASN	C-N-CA	8.55	130.53	119.84
1	8V	166	ASP	CA-CB-CG	8.55	121.15	112.60
1	9j	118	MET	N-CA-C	8.55	121.55	111.71
1	9E	173	ARG	N-CA-C	8.55	120.60	111.28
1	at	212	GLU	CA-C-N	8.55	131.56	120.44
1	at	212	GLU	C-N-CA	8.55	131.56	120.44
1	ch	73	ILE	CA-C-N	8.55	131.56	120.44
1	ch	73	ILE	C-N-CA	8.55	131.56	120.44
1	dg	124	ILE	N-CA-C	-8.55	98.45	107.60
1	1A	135	ILE	O-C-N	-8.55	110.84	122.05
1	m	192	GLN	N-CA-C	8.55	121.55	111.71
1	gC	152	ASP	CA-CB-CG	-8.55	104.05	112.60
1	gG	82	ARG	NE-CZ-NH2	-8.55	111.50	119.20
1	io	106	GLY	CA-C-N	8.55	131.56	120.44
1	io	106	GLY	C-N-CA	8.55	131.56	120.44
1	1W	83	LEU	N-CA-C	8.55	120.22	111.07
1	k8	68	MET	CA-C-N	8.55	131.74	120.28
1	k8	68	MET	C-N-CA	8.55	131.74	120.28
1	kd	51	ASP	CA-C-N	8.55	132.07	120.44
1	kd	51	ASP	C-N-CA	8.55	132.07	120.44
1	26	53	ASN	CA-CB-CG	-8.55	104.05	112.60
1	5I	118	MET	N-CA-C	8.55	120.60	111.28
1	9i	179	GLN	CA-C-O	8.55	129.61	120.55
1	a5	65	ALA	N-CA-CB	8.55	122.41	110.01
1	bb	29	GLU	O-C-N	-8.55	111.83	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bq	74	ASN	CA-CB-CG	-8.55	104.05	112.60
1	co	186	THR	N-CA-C	8.55	120.60	111.28
1	cB	82	ARG	NE-CZ-NH1	8.55	130.05	121.50
1	fh	22	ALA	N-CA-C	8.55	120.60	111.28
1	fm	78	ALA	N-CA-C	8.55	120.68	111.36
1	fp	141	ILE	O-C-N	-8.55	113.58	121.87
1	i7	78	ALA	N-CA-C	8.55	121.74	111.82
1	jr	84	HIS	CA-CB-CG	-8.55	105.25	113.80
1	40	212	GLU	N-CA-C	8.55	121.67	111.33
1	7k	77	ALA	O-C-N	-8.55	113.06	122.12
1	14	144	MET	N-CA-C	8.55	120.68	111.36
1	19	58	THR	N-CA-CB	8.55	123.27	110.53
1	gj	67	GLN	N-CA-C	8.55	120.60	111.28
1	gI	6	LEU	O-C-N	-8.55	111.19	122.47
1	iA	35	GLU	CA-C-N	8.55	131.50	120.56
1	iA	35	GLU	C-N-CA	8.55	131.50	120.56
1	jx	167	ARG	NH1-CZ-NH2	-8.55	108.19	119.30
1	2i	18	ARG	NE-CZ-NH1	8.55	130.05	121.50
1	3S	168	PHE	CA-CB-CG	8.55	122.35	113.80
1	4y	169	TYR	O-C-N	-8.55	112.41	122.15
1	5x	18	ARG	NE-CZ-NH1	8.55	130.05	121.50
1	5M	82	ARG	NE-CZ-NH1	8.55	130.05	121.50
1	6m	26	VAL	N-CA-C	8.55	118.63	110.42
1	fY	102	SER	N-CA-C	8.55	121.54	111.71
1	14	183	ASN	OD1-CG-ND2	-8.55	114.05	122.60
1	b8	50	GLN	CA-C-N	8.55	131.73	120.28
1	b8	50	GLN	C-N-CA	8.55	131.73	120.28
1	bR	74	ASN	N-CA-C	8.55	120.60	111.28
1	c7	23	TRP	CA-C-O	8.55	129.61	120.55
1	cw	101	GLY	CA-C-N	8.55	132.43	120.29
1	cw	101	GLY	C-N-CA	8.55	132.43	120.29
1	dk	167	ARG	N-CA-C	8.55	121.37	111.11
1	ey	39	MET	CA-C-N	8.55	131.73	120.28
1	ey	39	MET	C-N-CA	8.55	131.73	120.28
1	eA	141	ILE	O-C-N	-8.55	113.58	121.87
1	eV	161	PHE	CA-C-N	8.55	131.73	120.28
1	eV	161	PHE	C-N-CA	8.55	131.73	120.28
1	fa	17	PRO	CA-C-N	8.55	132.43	120.29
1	fa	17	PRO	C-N-CA	8.55	132.43	120.29
1	k7	2	ILE	O-C-N	-8.54	114.21	123.18
1	1o	144	MET	N-CA-C	8.55	120.67	111.36
1	lO	230	VAL	N-CA-C	-8.54	100.83	113.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	18	ARG	NE-CZ-NH1	8.54	130.04	121.50
1	5f	120	HIS	CE1-NE2-CD2	-8.54	100.45	109.00
1	aM	170	LYS	N-CA-CB	-8.54	97.62	110.01
1	d7	70	LYS	CA-C-O	8.54	129.79	120.82
1	ds	199	LYS	CA-C-N	8.54	131.73	120.28
1	ds	199	LYS	C-N-CA	8.54	131.73	120.28
1	eG	74	ASN	CA-CB-CG	8.54	121.14	112.60
1	fw	136	LEU	CA-C-N	8.54	129.65	119.99
1	fw	136	LEU	C-N-CA	8.54	129.65	119.99
1	gh	117	TRP	N-CA-C	8.54	121.67	111.33
1	e0	139	ASN	CA-CB-CG	-8.54	104.06	112.60
1	eM	58	THR	O-C-N	-8.54	111.37	122.39
1	V	42	ALA	CA-C-O	8.54	129.61	120.55
1	h2	9	GLN	OE1-CD-NE2	-8.54	114.06	122.60
1	iT	62	HIS	CA-C-O	8.54	131.44	121.28
1	l9	103	ASP	CA-CB-CG	-8.54	104.06	112.60
1	lF	189	LEU	O-C-N	-8.54	113.06	122.12
1	4W	16	SER	O-C-N	-8.54	112.74	121.28
1	5E	97	ARG	NE-CZ-NH2	-8.54	111.51	119.20
1	7r	151	LEU	N-CA-C	8.54	120.59	111.28
1	eZ	119	THR	N-CA-CB	8.54	123.13	110.49
1	X	89	GLY	CA-C-N	8.54	130.52	119.84
1	X	89	GLY	C-N-CA	8.54	130.52	119.84
1	7j	126	VAL	CA-C-N	8.54	129.42	119.94
1	7j	126	VAL	C-N-CA	8.54	129.42	119.94
1	aK	129	ILE	O-C-N	-8.54	113.03	121.83
1	ch	135	ILE	O-C-N	-8.54	113.54	121.91
1	1x	97	ARG	N-CA-CB	8.54	122.53	109.97
1	k	204	ALA	N-CA-CB	-8.54	97.37	110.44
1	1L	154	ARG	NE-CZ-NH2	-8.54	111.51	119.20
1	hR	87	HIS	CE1-NE2-CD2	-8.54	100.46	109.00
1	is	194	ALA	O-C-N	-8.54	112.55	122.97
1	ly	195	ASN	OD1-CG-ND2	-8.54	114.06	122.60
1	aD	71	GLU	CA-C-N	8.54	131.54	120.44
1	aD	71	GLU	C-N-CA	8.54	131.54	120.44
1	1r	9	GLN	O-C-N	-8.54	113.11	122.85
1	gz	41	SER	N-CA-C	8.54	120.59	111.28
1	i4	153	ILE	N-CA-C	8.54	121.16	109.80
1	iI	27	VAL	N-CA-CB	8.54	123.39	110.58
1	kV	67	GLN	N-CA-C	8.54	121.36	111.11
1	kY	92	GLU	CA-C-O	-8.54	111.04	120.69
1	lz	53	ASN	OD1-CG-ND2	-8.54	114.06	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	201	ILE	O-C-N	-8.54	113.03	121.83
1	38	81	ASP	CA-CB-CG	8.54	121.14	112.60
1	6s	87	HIS	CE1-NE2-CD2	-8.54	100.46	109.00
1	81	126	VAL	N-CA-CB	8.54	120.54	110.55
1	d3	150	ILE	CA-C-N	8.54	132.58	120.28
1	do	27	VAL	O-C-N	-8.54	113.59	121.87
1	3r	70	LYS	N-CA-C	8.54	120.59	111.28
1	3P	63	GLN	N-CA-C	8.54	120.58	111.28
1	77	133	TRP	CB-CG-CD2	-8.54	114.85	126.80
1	7R	47	ALA	CA-C-O	8.54	129.74	120.43
1	aM	18	ARG	CA-C-N	8.54	131.54	120.44
1	aM	18	ARG	C-N-CA	8.54	131.54	120.44
1	bi	145	TYR	CA-C-N	8.54	131.85	120.58
1	bi	145	TYR	C-N-CA	8.54	131.85	120.58
1	18	192	GLN	N-CA-C	8.54	121.66	111.33
1	cb	165	VAL	CB-CA-C	8.54	122.90	111.97
1	cz	53	ASN	CA-C-N	8.54	131.54	120.44
1	cz	53	ASN	C-N-CA	8.54	131.54	120.44
1	1f	17	PRO	CB-CA-C	-8.54	99.64	112.11
1	d3	150	ILE	C-N-CA	8.54	132.58	120.28
1	dg	82	ARG	NE-CZ-NH1	8.54	130.04	121.50
1	ev	102	SER	O-C-N	-8.54	113.07	122.12
1	fs	78	ALA	N-CA-C	8.54	120.21	111.07
1	cW	25	LYS	CA-C-N	8.54	131.49	120.56
1	cW	25	LYS	C-N-CA	8.54	131.49	120.56
1	gg	97	ARG	NE-CZ-NH2	-8.54	111.52	119.20
1	gO	120	HIS	CB-CG-CD2	-8.54	120.10	131.20
1	in	87	HIS	N-CA-C	8.54	122.28	110.24
1	iU	147	PRO	CA-C-O	-8.54	114.99	121.31
1	kR	193	ASN	OD1-CG-ND2	-8.54	114.06	122.60
1	le	4	GLN	CB-CA-C	8.54	123.75	109.84
1	ln	165	VAL	N-CA-C	8.54	119.33	110.62
1	lA	226	HIS	CA-CB-CG	8.54	122.33	113.80
1	2R	101	GLY	CA-C-N	8.54	132.07	120.38
1	2R	101	GLY	C-N-CA	8.54	132.07	120.38
1	4n	116	GLY	N-CA-C	8.54	122.97	112.73
1	4t	195	ASN	CA-CB-CG	8.54	121.14	112.60
1	5H	194	ALA	CA-C-N	8.54	132.26	120.65
1	5H	194	ALA	C-N-CA	8.54	132.26	120.65
1	ag	103	ASP	N-CA-C	8.54	120.58	111.28
1	aA	92	GLU	CA-C-O	-8.54	111.29	120.17
1	dt	154	ARG	NE-CZ-NH2	8.54	126.88	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	171	THR	CA-C-N	8.53	131.53	120.44
1	2o	171	THR	C-N-CA	8.53	131.53	120.44
1	2t	28	GLU	N-CA-C	8.53	120.20	111.07
1	5O	84	HIS	CA-CB-CG	8.53	122.33	113.80
1	6k	209	ALA	CA-C-N	8.54	132.83	120.71
1	6k	209	ALA	C-N-CA	8.54	132.83	120.71
1	9G	71	GLU	O-C-N	-8.54	113.07	122.12
1	ap	4	GLN	OE1-CD-NE2	8.54	131.13	122.60
1	c3	206	GLY	CA-C-N	8.54	129.37	119.47
1	c3	206	GLY	C-N-CA	8.54	129.37	119.47
1	1p	124	ILE	O-C-N	-8.54	113.07	120.92
1	fN	75	GLU	O-C-N	-8.53	112.42	122.15
1	7	155	GLN	O-C-N	-8.54	113.31	123.13
1	kS	126	VAL	O-C-N	8.53	130.49	121.87
1	9J	91	ILE	N-CA-C	-8.53	102.10	110.72
1	gp	26	VAL	CB-CA-C	8.53	122.89	111.97
1	h8	207	PRO	N-CA-C	-8.53	100.25	114.75
1	hW	134	ILE	N-CA-CB	8.53	119.92	110.62
1	jc	165	VAL	N-CA-C	8.53	118.61	110.42
1	kF	66	MET	N-CA-CB	8.53	122.65	109.94
1	8B	50	GLN	CA-C-N	8.53	131.53	120.44
1	iE	125	PRO	CA-C-N	8.53	132.15	120.46
1	iE	125	PRO	C-N-CA	8.53	132.15	120.46
1	kH	37	ILE	N-CA-CB	-8.53	105.12	110.50
1	lN	199	LYS	CA-C-N	8.53	131.53	120.44
1	lN	199	LYS	C-N-CA	8.53	131.53	120.44
1	2o	22	ALA	CA-C-N	8.53	131.53	120.44
1	2o	22	ALA	C-N-CA	8.53	131.53	120.44
1	4G	202	LEU	N-CA-C	8.53	121.65	111.33
1	81	120	HIS	CA-CB-CG	8.53	122.33	113.80
1	8B	50	GLN	C-N-CA	8.53	131.53	120.44
1	a3	15	ILE	O-C-N	-8.53	114.51	122.79
1	10	27	VAL	CA-C-N	8.53	132.06	120.54
1	12	114	GLN	N-CA-C	8.53	120.58	111.28
1	bC	183	ASN	CA-C-N	8.53	131.72	120.28
1	fV	114	GLN	N-CA-C	8.53	120.58	111.28
1	5o	220	GLY	CA-C-N	8.53	133.38	122.37
1	5o	220	GLY	C-N-CA	8.53	133.38	122.37
1	5E	139	ASN	O-C-N	-8.53	113.28	122.07
1	6J	26	VAL	N-CA-C	8.53	119.32	110.62
1	7P	44	SER	N-CA-C	8.53	122.48	112.93
1	8p	163	ASP	CA-C-N	8.53	131.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8p	163	ASP	C-N-CA	8.53	131.53	120.44
1	9y	48	THR	CA-C-N	8.53	130.50	119.84
1	9y	48	THR	C-N-CA	8.53	130.50	119.84
1	9X	25	LYS	N-CA-C	8.53	121.72	111.82
1	10	27	VAL	C-N-CA	8.53	132.06	120.54
1	aj	156	GLY	O-C-N	-8.53	113.24	121.77
1	bC	183	ASN	C-N-CA	8.53	131.72	120.28
1	dc	223	GLY	CA-C-N	8.53	128.57	119.78
1	dc	223	GLY	C-N-CA	8.53	128.57	119.78
1	bI	230	VAL	CB-CA-C	-8.53	98.12	110.83
1	gr	27	VAL	N-CA-CB	8.53	119.98	110.51
1	hY	162	ARG	NE-CZ-NH1	8.53	130.03	121.50
1	ik	142	VAL	N-CA-C	8.53	119.32	110.62
1	iR	182	LYS	N-CA-C	8.53	120.58	111.28
1	iY	21	ASN	N-CA-C	8.53	121.65	111.33
1	j5	68	MET	N-CA-C	8.53	120.58	111.28
1	41	161	PHE	CA-C-N	8.53	132.06	120.54
1	be	143	ARG	N-CA-C	8.53	120.20	111.07
1	cD	79	GLU	CA-C-N	8.53	131.53	120.44
1	im	201	ILE	N-CA-C	8.53	118.61	110.42
1	jz	193	ASN	CA-CB-CG	-8.53	104.07	112.60
1	2z	123	PRO	N-CA-C	8.53	124.63	111.15
1	41	161	PHE	C-N-CA	8.53	132.06	120.54
1	dP	124	ILE	O-C-N	-8.53	116.00	121.37
1	eY	121	ASN	CA-CB-CG	-8.53	104.07	112.60
1	56	224	PRO	CA-C-N	8.53	128.11	119.92
1	56	224	PRO	C-N-CA	8.53	128.11	119.92
1	5v	21	ASN	CA-C-N	8.53	132.40	120.29
1	5v	21	ASN	C-N-CA	8.53	132.40	120.29
1	6b	27	VAL	O-C-N	-8.53	113.03	121.90
1	6E	150	ILE	CA-C-N	8.53	132.83	120.38
1	6E	150	ILE	C-N-CA	8.53	132.83	120.38
1	79	139	ASN	N-CA-CB	8.53	122.66	110.12
1	8c	100	ARG	NE-CZ-NH1	8.53	130.03	121.50
1	8g	82	ARG	NE-CZ-NH1	8.53	130.03	121.50
1	8u	53	ASN	N-CA-C	8.53	120.20	111.07
1	9P	124	ILE	O-C-N	-8.53	116.00	121.37
1	ba	122	PRO	CA-C-N	8.53	128.57	119.78
1	ba	122	PRO	C-N-CA	8.53	128.57	119.78
1	cD	79	GLU	C-N-CA	8.53	131.53	120.44
1	cH	86	VAL	O-C-N	-8.53	114.05	123.26
1	8	188	THR	O-C-N	8.53	130.86	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a2	32	PHE	CA-CB-CG	-8.53	105.27	113.80
1	ad	53	ASN	CA-CB-CG	-8.53	104.07	112.60
1	12	148	THR	N-CA-C	8.53	122.26	110.24
1	bK	217	ALA	N-CA-C	8.53	120.66	111.36
1	c9	228	ALA	N-CA-C	8.53	123.35	111.92
1	dY	134	ILE	N-CA-CB	8.53	119.92	110.62
1	e1	197	ASP	CA-C-O	8.53	129.88	119.31
1	el	84	HIS	CA-CB-CG	-8.53	105.27	113.80
1	es	141	ILE	O-C-N	-8.53	113.60	121.87
1	f4	75	GLU	N-CA-C	8.53	120.20	111.07
1	a	195	ASN	CA-C-N	8.53	128.66	119.28
1	a	195	ASN	C-N-CA	8.53	128.66	119.28
1	T	62	HIS	CA-C-N	8.53	131.71	120.28
1	T	62	HIS	C-N-CA	8.53	131.71	120.28
1	gc	136	LEU	N-CA-C	8.53	120.19	111.07
1	gO	48	THR	N-CA-CB	8.53	119.12	109.49
1	ld	209	ALA	CA-C-N	8.53	133.24	121.05
1	ld	209	ALA	C-N-CA	8.53	133.24	121.05
1	6n	123	PRO	CA-C-N	8.53	128.73	122.59
1	6n	123	PRO	C-N-CA	8.53	128.73	122.59
1	1D	84	HIS	CE1-NE2-CD2	-8.53	100.47	109.00
1	gy	180	GLU	N-CA-C	8.53	121.34	111.11
1	gY	167	ARG	NE-CZ-NH1	8.53	130.03	121.50
1	3g	211	LEU	N-CA-C	8.53	120.57	111.28
1	3m	173	ARG	CA-C-N	8.53	132.56	120.28
1	3m	173	ARG	C-N-CA	8.53	132.56	120.28
1	3N	151	LEU	CA-C-N	8.53	132.40	120.29
1	3N	151	LEU	C-N-CA	8.53	132.40	120.29
1	4S	138	LEU	N-CA-C	8.53	121.52	111.71
1	k2	115	ILE	CA-C-N	8.53	129.38	120.00
1	k2	115	ILE	C-N-CA	8.53	129.38	120.00
1	3Q	173	ARG	NE-CZ-NH2	8.53	126.87	119.20
1	3Y	32	PHE	CB-CA-C	8.53	121.91	110.06
1	4h	140	LYS	O-C-N	-8.53	113.29	122.07
1	59	100	ARG	NE-CZ-NH1	8.53	130.03	121.50
1	6n	138	LEU	N-CA-C	8.53	120.57	111.28
1	6W	204	ALA	N-CA-C	8.53	121.71	111.82
1	aD	197	ASP	CA-C-N	8.53	132.40	120.29
1	aD	197	ASP	C-N-CA	8.53	132.40	120.29
1	1c	96	MET	N-CA-C	8.53	122.81	110.10
1	fL	90	PRO	CA-C-N	8.53	133.03	122.37
1	fL	90	PRO	C-N-CA	8.53	133.03	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	74	89	GLY	CA-C-N	8.53	130.50	119.84
1	74	89	GLY	C-N-CA	8.53	130.50	119.84
1	ct	44	SER	CA-C-N	8.53	132.83	120.38
1	ct	44	SER	C-N-CA	8.53	132.83	120.38
1	dL	36	VAL	CA-C-N	8.53	125.61	120.24
1	dL	36	VAL	C-N-CA	8.53	125.61	120.24
1	fA	173	ARG	CA-C-N	8.53	131.70	120.28
1	fA	173	ARG	C-N-CA	8.53	131.70	120.28
1	g1	173	ARG	O-C-N	-8.53	113.08	122.12
1	u	32	PHE	CA-CB-CG	-8.53	105.28	113.80
1	X	219	GLN	CA-C-N	8.53	129.62	119.99
1	X	219	GLN	C-N-CA	8.53	129.62	119.99
1	gb	92	GLU	N-CA-C	8.52	125.26	113.16
1	gg	167	ARG	CA-C-N	8.52	131.70	120.28
1	gg	167	ARG	C-N-CA	8.52	131.70	120.28
1	gn	103	ASP	N-CA-C	-8.52	100.60	112.45
1	gN	159	GLU	CA-C-N	8.52	128.58	119.89
1	gN	159	GLU	C-N-CA	8.52	128.58	119.89
1	1J	12	HIS	ND1-CE1-NE2	8.52	116.92	108.40
1	iy	84	HIS	CA-CB-CG	8.52	122.32	113.80
1	9L	173	ARG	NE-CZ-NH2	8.52	126.87	119.20
1	9S	37	ILE	O-C-N	-8.52	111.38	121.10
1	1A	230	VAL	N-CA-C	8.52	120.80	109.21
1	gS	111	LEU	O-C-N	-8.52	113.09	122.12
1	i5	65	ALA	CA-C-O	8.52	129.77	119.97
1	io	220	GLY	CA-C-O	8.52	129.52	119.46
1	1Q	230	VAL	CB-CA-C	-8.52	99.53	111.21
1	7O	48	THR	CA-C-O	-8.52	113.49	121.08
1	iW	82	ARG	CA-C-N	8.52	131.70	120.28
1	iW	82	ARG	C-N-CA	8.52	131.70	120.28
1	5G	84	HIS	CA-CB-CG	-8.52	105.28	113.80
1	9a	84	HIS	ND1-CE1-NE2	8.52	116.92	108.40
1	c1	26	VAL	CA-C-N	8.52	131.30	120.56
1	c1	26	VAL	C-N-CA	8.52	131.30	120.56
1	j5	10	MET	CA-C-N	8.52	133.73	121.80
1	j5	10	MET	C-N-CA	8.52	133.73	121.80
1	j6	15	ILE	N-CA-C	8.52	120.87	109.37
1	6k	120	HIS	CE1-NE2-CD2	-8.52	100.48	109.00
1	7B	12	HIS	CG-CD2-NE2	8.52	115.72	107.20
1	6N	47	ALA	N-CA-C	8.52	121.94	110.35
1	7X	214	MET	CA-C-O	8.52	129.77	120.82
1	a2	121	ASN	CA-CB-CG	8.52	121.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16	22	ALA	CA-C-N	8.52	134.74	121.19
1	16	22	ALA	C-N-CA	8.52	134.74	121.19
1	c1	228	ALA	N-CA-C	8.52	120.88	110.91
1	c5	72	THR	N-CA-C	8.52	120.57	111.28
1	cP	74	ASN	CA-CB-CG	-8.52	104.08	112.60
1	cR	195	ASN	CA-C-N	8.52	128.10	119.24
1	cR	195	ASN	C-N-CA	8.52	128.10	119.24
1	dw	167	ARG	NE-CZ-NH2	-8.52	111.53	119.20
1	e5	16	SER	O-C-N	-8.52	109.02	121.12
1	ei	149	SER	N-CA-CB	8.52	124.89	110.49
1	ew	118	MET	CA-C-N	8.52	131.70	120.28
1	ew	118	MET	C-N-CA	8.52	131.70	120.28
1	fz	53	ASN	CA-C-N	8.52	131.52	120.44
1	fz	53	ASN	C-N-CA	8.52	131.52	120.44
1	0	36	VAL	N-CA-C	8.52	118.60	110.42
1	g	11	VAL	O-C-N	-8.52	113.62	123.00
1	A	187	GLU	N-CA-C	8.52	120.57	111.28
1	lE	180	GLU	N-CA-C	8.52	120.57	111.28
1	lG	30	LYS	CA-C-N	8.52	131.70	120.28
1	lG	30	LYS	C-N-CA	8.52	131.70	120.28
1	4R	98	GLU	N-CA-C	8.52	120.65	109.83
1	7n	200	THR	CA-C-N	8.52	132.13	120.46
1	7n	200	THR	C-N-CA	8.52	132.13	120.46
1	ac	103	ASP	CA-C-N	8.52	132.13	120.46
1	d9	3	VAL	O-C-N	-8.52	113.98	122.67
1	dz	12	HIS	CA-CB-CG	-8.52	105.28	113.80
1	hG	21	ASN	N-CA-CB	-8.52	97.08	110.28
1	20	114	GLN	OE1-CD-NE2	-8.52	114.08	122.60
1	2o	172	LEU	O-C-N	-8.52	113.30	122.07
1	3i	73	ILE	CA-C-N	8.52	131.51	120.44
1	3i	73	ILE	C-N-CA	8.52	131.51	120.44
1	3j	37	ILE	O-C-N	-8.52	114.97	120.42
1	6Y	53	ASN	OD1-CG-ND2	-8.52	114.08	122.60
1	ac	103	ASP	C-N-CA	8.52	132.13	120.46
1	4Z	115	ILE	CA-C-N	8.52	129.40	119.94
1	4Z	115	ILE	C-N-CA	8.52	129.40	119.94
1	5e	87	HIS	CA-CB-CG	8.52	122.32	113.80
1	78	37	ILE	N-CA-CB	8.52	117.09	110.45
1	8T	142	VAL	O-C-N	-8.52	113.56	121.91
1	9O	3	VAL	CA-C-O	8.52	131.16	121.28
1	a4	22	ALA	CA-C-N	8.52	131.51	120.44
1	a4	22	ALA	C-N-CA	8.52	131.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aj	178	SER	N-CA-C	8.52	122.28	110.35
1	aU	170	LYS	CA-C-N	8.52	132.39	120.29
1	aU	170	LYS	C-N-CA	8.52	132.39	120.29
1	bh	26	VAL	N-CA-C	8.52	119.31	110.62
1	es	223	GLY	CA-C-N	8.52	128.53	119.76
1	es	223	GLY	C-N-CA	8.52	128.53	119.76
1	ig	146	SER	CA-C-N	8.52	129.04	119.93
1	ig	146	SER	C-N-CA	8.52	129.04	119.93
1	jv	120	HIS	ND1-CE1-NE2	8.52	116.92	108.40
1	6B	21	ASN	N-CA-C	8.52	121.33	111.11
1	cl	138	LEU	O-C-N	-8.52	113.09	122.12
1	dk	18	ARG	NE-CZ-NH2	-8.52	111.53	119.20
1	hz	229	ARG	NE-CZ-NH1	8.52	130.01	121.50
1	hR	32	PHE	CA-CB-CG	-8.52	105.28	113.80
1	iJ	25	LYS	N-CA-C	8.52	120.18	111.07
1	kL	34	PRO	CA-C-N	8.52	132.81	120.38
1	kL	34	PRO	C-N-CA	8.52	132.81	120.38
1	lE	118	MET	CG-SD-CE	-8.52	82.17	100.90
1	lI	152	ASP	CA-CB-CG	-8.52	104.08	112.60
1	2N	143	ARG	NE-CZ-NH1	8.52	130.02	121.50
1	34	72	THR	N-CA-CB	8.52	122.36	110.01
1	6R	126	VAL	CA-C-N	8.52	129.22	119.94
1	6R	126	VAL	C-N-CA	8.52	129.22	119.94
1	7U	33	SER	CA-C-O	-8.52	110.28	120.41
1	ap	48	THR	CA-C-N	8.52	128.50	119.05
1	ap	48	THR	C-N-CA	8.52	128.50	119.05
1	dD	167	ARG	NH1-CZ-NH2	-8.52	108.23	119.30
1	eH	97	ARG	NE-CZ-NH1	8.52	130.01	121.50
1	t	37	ILE	N-CA-CB	8.52	115.86	110.50
1	gk	182	LYS	N-CA-C	8.51	121.33	111.11
1	gm	44	SER	CA-C-N	8.51	132.04	120.38
1	gm	44	SER	C-N-CA	8.51	132.04	120.38
1	1G	50	GLN	N-CA-C	8.51	121.70	111.82
1	42	62	HIS	ND1-CE1-NE2	8.51	116.91	108.40
1	7a	68	MET	CA-C-N	8.51	132.03	120.54
1	bl	55	MET	O-C-N	-8.51	113.30	122.07
1	1E	59	VAL	N-CA-C	8.51	119.08	110.23
1	hj	190	LEU	N-CA-C	8.51	120.18	111.07
1	hv	134	ILE	N-CA-C	8.51	119.30	110.36
1	iN	112	GLN	OE1-CD-NE2	-8.51	114.09	122.60
1	1R	162	ARG	NE-CZ-NH2	-8.51	111.54	119.20
1	2x	103	ASP	O-C-N	8.51	131.14	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4P	48	THR	CA-C-O	-8.51	112.03	120.97
1	69	15	ILE	CA-C-N	8.51	132.08	120.67
1	69	15	ILE	C-N-CA	8.51	132.08	120.67
1	7a	68	MET	C-N-CA	8.51	132.03	120.54
1	c	41	SER	CA-C-N	8.51	131.69	120.28
1	6B	121	ASN	CA-CB-CG	-8.51	104.09	112.60
1	9s	7	GLN	OE1-CD-NE2	-8.51	114.09	122.60
1	c3	174	ALA	N-CA-C	8.51	120.56	111.28
1	cy	173	ARG	CA-C-N	8.51	131.69	120.28
1	cy	173	ARG	C-N-CA	8.51	131.69	120.28
1	fZ	14	ALA	N-CA-C	8.51	122.27	110.35
1	c	41	SER	C-N-CA	8.51	131.69	120.28
1	dh	125	PRO	CA-C-N	8.51	132.12	120.46
1	dh	125	PRO	C-N-CA	8.51	132.12	120.46
1	e1	75	GLU	CA-C-N	8.51	131.50	120.44
1	e1	75	GLU	C-N-CA	8.51	131.50	120.44
1	e6	188	THR	N-CA-CB	8.51	124.88	110.49
1	eb	43	LEU	CA-C-O	8.51	130.00	119.11
1	fq	226	HIS	CG-CD2-NE2	8.51	115.71	107.20
1	g0	203	LYS	O-C-N	-8.51	113.10	122.12
1	l	12	HIS	CE1-NE2-CD2	-8.51	100.49	109.00
1	gl	37	ILE	CA-C-O	8.51	126.08	118.85
1	gD	36	VAL	CA-C-N	8.51	125.60	120.24
1	gD	36	VAL	C-N-CA	8.51	125.60	120.24
1	iW	153	ILE	N-CA-C	8.51	120.56	109.58
1	jj	98	GLU	CA-C-O	-8.51	112.91	119.46
1	jO	168	PHE	O-C-N	-8.51	113.30	122.07
1	kc	57	ASN	CA-C-N	8.51	131.68	120.28
1	kc	57	ASN	C-N-CA	8.51	131.68	120.28
1	kN	48	THR	CA-CB-OG1	8.51	122.36	109.60
1	l9	100	ARG	NE-CZ-NH2	-8.51	111.54	119.20
1	li	224	PRO	N-CA-C	8.51	124.60	111.15
1	2n	120	HIS	CA-CB-CG	8.51	122.31	113.80
1	54	166	ASP	CA-CB-CG	8.51	121.11	112.60
1	96	124	ILE	N-CA-C	-8.51	98.24	107.77
1	7l	106	GLY	CA-C-N	8.51	131.68	120.28
1	7l	106	GLY	C-N-CA	8.51	131.68	120.28
1	aP	132	ARG	NE-CZ-NH2	-8.51	111.54	119.20
1	dl	40	PHE	N-CA-C	8.51	120.55	111.28
1	eg	36	VAL	CA-C-N	8.51	125.60	120.24
1	eg	36	VAL	C-N-CA	8.51	125.60	120.24
1	eU	228	ALA	N-CA-C	8.51	121.63	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fO	82	ARG	NH1-CZ-NH2	-8.51	108.24	119.30
1	iF	92	GLU	N-CA-C	8.51	121.67	109.84
1	li	70	LYS	N-CA-C	8.51	121.49	111.71
1	43	100	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	49	18	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	75	66	MET	N-CA-C	8.51	120.55	111.28
1	eH	12	HIS	N-CA-C	8.51	122.87	110.28
1	gj	201	ILE	CA-C-N	8.51	132.37	120.29
1	gj	201	ILE	C-N-CA	8.51	132.37	120.29
1	iM	28	GLU	CA-C-N	8.51	132.20	120.63
1	iM	28	GLU	C-N-CA	8.51	132.20	120.63
1	kT	145	TYR	CA-C-N	-8.51	114.46	122.37
1	kT	145	TYR	C-N-CA	-8.51	114.46	122.37
1	lO	162	ARG	NE-CZ-NH1	8.51	130.01	121.50
1	3J	155	GLN	OE1-CD-NE2	-8.51	114.09	122.60
1	7o	36	VAL	CA-C-N	8.51	127.14	120.33
1	7o	36	VAL	C-N-CA	8.51	127.14	120.33
1	7T	210	THR	CA-C-N	8.51	131.68	120.28
1	7T	210	THR	C-N-CA	8.51	131.68	120.28
1	8B	194	ALA	CA-C-N	8.51	132.85	120.51
1	8B	194	ALA	C-N-CA	8.51	132.85	120.51
1	8G	48	THR	CA-C-O	-8.51	111.43	120.70
1	aK	33	SER	O-C-N	-8.51	115.44	121.65
1	cI	168	PHE	CA-CB-CG	8.51	122.31	113.80
1	dS	104	ILE	N-CA-C	8.51	119.31	110.72
1	er	42	ALA	N-CA-C	8.51	121.49	111.71
1	l4	66	MET	N-CA-C	8.51	120.63	111.36
1	2J	128	GLU	N-CA-C	8.51	120.63	111.36
1	2K	194	ALA	N-CA-CB	-8.51	98.28	110.44
1	2S	24	VAL	N-CA-C	8.51	120.32	110.62
1	3V	206	GLY	CA-C-N	8.51	130.47	119.84
1	3V	206	GLY	C-N-CA	8.51	130.47	119.84
1	4J	136	LEU	CA-C-N	8.51	129.38	119.94
1	4J	136	LEU	C-N-CA	8.51	129.38	119.94
1	7u	124	ILE	N-CA-CB	-8.51	102.17	110.08
1	av	41	SER	CA-C-N	8.51	132.03	120.38
1	av	41	SER	C-N-CA	8.51	132.03	120.38
1	13	36	VAL	CA-C-N	8.51	127.13	120.33
1	13	36	VAL	C-N-CA	8.51	127.13	120.33
1	b7	82	ARG	NE-CZ-NH1	8.51	130.00	121.50
1	bU	191	VAL	CB-CA-C	-8.51	100.66	112.14
1	cH	7	GLN	CA-C-N	8.51	129.56	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cH	7	GLN	C-N-CA	8.51	129.56	120.03
1	dT	66	MET	N-CA-C	8.51	121.32	111.11
1	en	179	GLN	N-CA-C	8.51	120.55	111.28
1	eG	37	ILE	O-C-N	-8.51	111.41	121.10
1	2w	167	ARG	NE-CZ-NH1	8.50	130.00	121.50
1	3p	211	LEU	CA-C-O	8.50	129.56	120.55
1	3U	63	GLN	CA-C-O	8.50	129.30	119.18
1	5n	60	GLY	CA-C-N	8.50	128.08	119.92
1	5n	60	GLY	C-N-CA	8.50	128.08	119.92
1	iI	82	ARG	NE-CZ-NH2	-8.50	111.55	119.20
1	jT	143	ARG	CA-C-N	8.50	131.49	120.44
1	jT	143	ARG	C-N-CA	8.50	131.49	120.44
1	kP	203	LYS	O-C-N	-8.50	113.31	122.07
1	46	7	GLN	OE1-CD-NE2	-8.50	114.10	122.60
1	5Y	229	ARG	N-CA-C	8.50	122.09	109.59
1	6t	178	SER	CA-C-N	8.50	132.02	120.54
1	6t	178	SER	C-N-CA	8.50	132.02	120.54
1	6N	195	ASN	CA-C-N	8.50	130.47	119.84
1	6N	195	ASN	C-N-CA	8.50	130.47	119.84
1	7Y	170	LYS	CA-C-N	8.50	132.02	120.54
1	7Y	170	LYS	C-N-CA	8.50	132.02	120.54
1	8h	208	ALA	CA-C-N	8.50	133.21	121.05
1	8h	208	ALA	C-N-CA	8.50	133.21	121.05
1	8z	52	LEU	O-C-N	-8.50	113.11	122.12
1	16	159	GLU	N-CA-C	8.50	121.81	110.08
1	96	147	PRO	CA-C-N	8.50	133.32	120.82
1	96	147	PRO	C-N-CA	8.50	133.32	120.82
1	ay	37	ILE	N-CA-CB	8.50	117.08	110.45
1	cf	28	GLU	N-CA-C	8.50	121.62	111.33
1	ck	52	LEU	CA-C-N	8.50	131.67	120.28
1	ck	52	LEU	C-N-CA	8.50	131.67	120.28
1	dC	199	LYS	CA-C-N	8.50	132.37	120.29
1	dC	199	LYS	C-N-CA	8.50	132.37	120.29
1	iK	209	ALA	N-CA-C	8.50	122.77	110.10
1	kQ	18	ARG	NE-CZ-NH1	8.50	130.00	121.50
1	lE	150	ILE	CA-CB-CG1	8.50	124.85	110.40
1	4U	211	LEU	CA-C-N	8.50	131.49	120.44
1	lK	114	GLN	N-CA-C	8.50	121.39	111.02
1	2e	199	LYS	N-CA-C	8.50	120.55	111.28
1	2Z	226	HIS	CA-CB-CG	8.50	122.30	113.80
1	3v	144	MET	N-CA-C	8.50	120.55	111.28
1	4U	211	LEU	C-N-CA	8.50	131.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5O	121	ASN	CA-C-O	-8.50	111.39	119.55
1	7y	221	VAL	N-CA-C	8.50	120.41	108.93
1	82	119	THR	N-CA-C	-8.50	102.49	113.12
1	en	217	ALA	N-CA-C	8.50	120.87	110.41
1	4H	164	TYR	CA-C-N	8.50	132.10	120.46
1	4H	164	TYR	C-N-CA	8.50	132.10	120.46
1	7c	103	ASP	CA-C-O	8.50	129.43	120.42
1	7j	167	ARG	N-CA-C	8.50	121.68	111.82
1	9c	171	THR	CA-C-N	8.50	132.36	120.29
1	9c	171	THR	C-N-CA	8.50	132.36	120.29
1	am	126	VAL	CA-C-N	8.50	129.38	119.94
1	am	126	VAL	C-N-CA	8.50	129.38	119.94
1	aE	89	GLY	CA-C-N	8.50	128.51	119.76
1	aE	89	GLY	C-N-CA	8.50	128.51	119.76
1	bA	9	GLN	OE1-CD-NE2	-8.50	114.10	122.60
1	cL	18	ARG	NE-CZ-NH2	-8.50	111.55	119.20
1	em	172	LEU	N-CA-C	8.50	120.54	111.28
1	eB	110	THR	O-C-N	-8.50	112.36	122.81
1	fE	119	THR	CA-C-N	8.50	134.28	120.94
1	fE	119	THR	C-N-CA	8.50	134.28	120.94
1	r	59	VAL	O-C-N	-8.50	114.00	122.67
1	jC	229	ARG	CA-C-N	8.50	133.39	121.66
1	4N	25	LYS	N-CA-C	8.50	120.54	111.28
1	1E	12	HIS	N-CA-C	8.50	123.62	110.20
1	gP	63	GLN	N-CA-C	8.50	120.54	111.28
1	hh	100	ARG	NE-CZ-NH2	-8.50	111.55	119.20
1	iW	32	PHE	CA-CB-CG	-8.50	105.30	113.80
1	ja	20	LEU	N-CA-C	8.50	120.54	111.28
1	je	87	HIS	CA-C-N	8.50	132.88	120.90
1	je	87	HIS	C-N-CA	8.50	132.88	120.90
1	jC	229	ARG	C-N-CA	8.50	133.39	121.66
1	5i	226	HIS	CA-CB-CG	8.50	122.30	113.80
1	5k	133	TRP	O-C-N	-8.50	113.32	122.07
1	d8	12	HIS	CG-CD2-NE2	8.50	115.70	107.20
1	k7	179	GLN	OE1-CD-NE2	-8.50	114.10	122.60
1	lg	70	LYS	N-CA-C	8.50	120.54	111.28
1	5p	36	VAL	CA-C-N	8.50	128.59	120.43
1	5p	36	VAL	C-N-CA	8.50	128.59	120.43
1	L	180	GLU	CA-C-N	8.50	131.27	120.56
1	L	180	GLU	C-N-CA	8.50	131.27	120.56
1	2I	20	LEU	N-CA-C	8.50	120.54	111.28
1	42	155	GLN	CA-C-O	-8.50	111.00	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4I	87	HIS	CE1-NE2-CD2	-8.50	100.50	109.00
1	5w	10	MET	N-CA-C	8.50	122.94	112.58
1	5Y	200	THR	N-CA-CB	8.50	122.74	110.16
1	9N	28	GLU	N-CA-C	8.50	120.23	110.97
1	au	100	ARG	NE-CZ-NH1	8.50	130.00	121.50
1	aR	130	TYR	O-C-N	-8.50	113.11	122.12
1	aU	111	LEU	N-CA-C	8.50	121.61	111.33
1	cV	97	ARG	CA-C-N	8.50	132.96	121.74
1	cV	97	ARG	C-N-CA	8.50	132.96	121.74
1	1i	167	ARG	NE-CZ-NH1	8.50	130.00	121.50
1	dy	206	GLY	CA-C-N	8.50	130.46	119.84
1	dy	206	GLY	C-N-CA	8.50	130.46	119.84
1	eA	144	MET	CA-C-N	8.50	131.67	120.28
1	eA	144	MET	C-N-CA	8.50	131.67	120.28
1	1G	94	GLY	CA-C-O	8.49	130.30	119.68
1	hW	224	PRO	N-CA-C	8.49	124.62	111.11
1	jP	77	ALA	O-C-N	-8.49	113.11	122.12
1	55	21	ASN	CA-CB-CG	8.49	121.09	112.60
1	6I	80	TRP	N-CA-C	8.49	120.16	111.07
1	7k	146	SER	CA-C-O	-8.49	108.52	120.16
1	8g	61	GLY	CA-C-N	8.49	134.88	122.82
1	8g	61	GLY	C-N-CA	8.49	134.88	122.82
1	al	160	PRO	N-CA-CB	8.49	110.45	103.32
1	aq	216	THR	O-C-N	-8.49	112.20	122.48
1	b9	37	ILE	O-C-N	-8.49	114.98	120.42
1	db	149	SER	O-C-N	-8.49	113.43	122.94
1	1q	201	ILE	CA-C-O	8.49	129.78	120.95
1	ez	166	ASP	CA-C-N	8.49	131.66	120.28
1	ez	166	ASP	C-N-CA	8.49	131.66	120.28
1	eG	191	VAL	N-CA-C	-8.49	104.50	111.81
1	kT	108	THR	N-CA-C	8.49	123.83	113.38
1	4y	89	GLY	CA-C-N	8.49	128.53	119.78
1	4y	89	GLY	C-N-CA	8.49	128.53	119.78
1	56	5	ASN	CA-C-O	8.49	129.55	120.55
1	5O	87	HIS	CE1-NE2-CD2	-8.49	100.51	109.00
1	dB	132	ARG	NE-CZ-NH2	-8.49	111.56	119.20
1	66	129	ILE	CA-C-N	8.49	132.35	120.29
1	66	129	ILE	C-N-CA	8.49	132.35	120.29
1	7h	32	PHE	CA-CB-CG	-8.49	105.31	113.80
1	9U	229	ARG	NE-CZ-NH2	8.49	126.84	119.20
1	aP	15	ILE	N-CA-C	8.49	123.20	109.78
1	da	229	ARG	CA-C-N	8.49	131.88	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	da	229	ARG	C-N-CA	8.49	131.88	120.50
1	dD	12	HIS	CE1-NE2-CD2	-8.49	100.51	109.00
1	dX	100	ARG	NE-CZ-NH1	8.49	129.99	121.50
1	eb	223	GLY	CA-C-N	8.49	130.46	119.84
1	eb	223	GLY	C-N-CA	8.49	130.46	119.84
1	f1	136	LEU	CA-C-O	-8.49	111.90	120.82
1	gi	36	VAL	CA-C-N	8.49	127.12	120.33
1	gi	36	VAL	C-N-CA	8.49	127.12	120.33
1	gk	120	HIS	CB-CG-ND1	8.49	135.44	122.70
1	lu	28	GLU	N-CA-C	8.49	120.16	111.07
1	kR	173	ARG	NE-CZ-NH2	8.49	126.84	119.20
1	28	169	TYR	CA-C-O	-8.49	111.55	120.55
1	2H	93	PRO	CB-CA-C	-8.49	99.83	110.95
1	67	69	LEU	O-C-N	-8.49	113.33	122.07
1	6s	195	ASN	CA-C-N	8.49	128.62	119.28
1	6s	195	ASN	C-N-CA	8.49	128.62	119.28
1	7a	12	HIS	CE1-NE2-CD2	-8.49	100.51	109.00
1	F	97	ARG	N-CA-C	8.49	121.28	110.24
1	7W	98	GLU	N-CA-C	8.49	121.70	109.48
1	8a	161	PHE	CA-C-N	8.49	133.56	120.82
1	8a	161	PHE	C-N-CA	8.49	133.56	120.82
1	8X	127	GLY	O-C-N	8.49	130.34	122.19
1	ab	128	GLU	N-CA-C	8.49	120.54	111.28
1	c8	57	ASN	OD1-CG-ND2	8.49	131.09	122.60
1	er	121	ASN	CA-CB-CG	-8.49	104.11	112.60
1	eb	133	TRP	CB-CG-CD2	-8.49	114.92	126.80
1	fp	78	ALA	CA-C-N	8.49	131.66	120.28
1	fp	78	ALA	C-N-CA	8.49	131.66	120.28
1	4	168	PHE	CA-CB-CG	-8.49	105.31	113.80
1	jr	144	MET	N-CA-C	8.49	120.53	111.28
1	1Z	136	LEU	O-C-N	-8.49	113.12	122.12
1	dl	23	TRP	CA-C-N	8.49	132.09	120.46
1	i0	173	ARG	NE-CZ-NH1	8.49	129.99	121.50
1	iX	224	PRO	CA-C-N	8.49	130.82	120.13
1	iX	224	PRO	C-N-CA	8.49	130.82	120.13
1	jc	37	ILE	CB-CA-C	-8.49	105.35	114.35
1	lh	195	ASN	O-C-N	-8.49	114.42	121.38
1	lI	123	PRO	O-C-N	-8.49	113.81	123.23
1	2C	92	GLU	CA-C-N	8.49	128.56	119.90
1	2C	92	GLU	C-N-CA	8.49	128.56	119.90
1	3E	76	GLU	CA-C-N	8.49	131.65	120.28
1	3E	76	GLU	C-N-CA	8.49	131.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	140	LYS	CA-C-N	8.49	131.25	120.56
1	3G	140	LYS	C-N-CA	8.49	131.25	120.56
1	3T	193	ASN	CA-CB-CG	8.49	121.09	112.60
1	7F	67	GLN	CA-C-N	8.49	131.65	120.28
1	7F	67	GLN	C-N-CA	8.49	131.65	120.28
1	8k	92	GLU	O-C-N	-8.49	115.45	121.65
1	98	116	GLY	CA-C-N	8.49	131.47	120.44
1	98	116	GLY	C-N-CA	8.49	131.47	120.44
1	9M	117	TRP	O-C-N	-8.49	113.12	122.12
1	b2	173	ARG	N-CA-C	8.49	120.53	111.28
1	dl	23	TRP	C-N-CA	8.49	132.09	120.46
1	fN	95	GLN	N-CA-C	8.49	121.89	110.35
1	cA	106	GLY	CA-C-N	8.49	131.98	120.44
1	cA	106	GLY	C-N-CA	8.49	131.98	120.44
1	1j	77	ALA	N-CA-C	8.49	120.15	111.07
1	dN	200	THR	CA-C-N	8.49	131.55	120.60
1	dN	200	THR	C-N-CA	8.49	131.55	120.60
1	fo	23	TRP	N-CA-C	8.49	120.53	111.28
1	fS	66	MET	N-CA-C	8.49	120.53	111.28
1	6	80	TRP	CA-C-N	8.49	131.65	120.28
1	6	80	TRP	C-N-CA	8.49	131.65	120.28
1	6	87	HIS	CE1-NE2-CD2	-8.49	100.51	109.00
1	h0	119	THR	N-CA-C	-8.48	102.94	113.38
1	gX	112	GLN	CA-C-N	8.48	131.47	120.44
1	gX	112	GLN	C-N-CA	8.48	131.47	120.44
1	h9	165	VAL	N-CA-C	8.48	119.27	110.62
1	hn	206	GLY	CA-C-N	8.48	129.87	120.45
1	hn	206	GLY	C-N-CA	8.48	129.87	120.45
1	il	222	GLY	CA-C-N	8.48	135.19	121.87
1	il	222	GLY	C-N-CA	8.48	135.19	121.87
1	di	115	ILE	CA-C-N	8.48	129.58	119.99
1	hp	188	THR	N-CA-C	8.48	120.53	111.28
1	jk	120	HIS	CE1-NE2-CD2	-8.48	100.52	109.00
1	km	125	PRO	N-CA-CB	-8.48	97.19	102.79
1	3r	6	LEU	N-CA-C	8.48	121.47	111.71
1	l6	63	GLN	CA-C-O	-8.48	109.35	118.77
1	lO	165	VAL	N-CA-C	8.48	120.29	110.62
1	4k	95	GLN	OE1-CD-NE2	-8.48	114.11	122.60
1	2g	142	VAL	CA-C-N	8.48	131.65	120.28
1	2g	142	VAL	C-N-CA	8.48	131.65	120.28
1	2t	23	TRP	CB-CA-C	8.48	124.87	110.79
1	2H	84	HIS	O-C-N	-8.48	114.36	121.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	149	SER	N-CA-C	8.48	122.60	109.96
1	4o	37	ILE	N-CA-CB	8.48	115.84	110.50
1	4O	197	ASP	CA-CB-CG	-8.48	104.12	112.60
1	4T	87	HIS	CA-CB-CG	-8.48	105.32	113.80
1	5t	169	TYR	N-CA-C	8.48	120.53	111.28
1	6h	214	MET	N-CA-C	8.48	120.15	111.07
1	84	70	LYS	N-CA-C	8.48	121.47	111.71
1	8D	122	PRO	CA-C-N	8.48	128.52	119.78
1	8D	122	PRO	C-N-CA	8.48	128.52	119.78
1	aw	121	ASN	CA-CB-CG	8.48	121.08	112.60
1	b4	178	SER	CA-C-N	8.48	132.50	120.28
1	b4	178	SER	C-N-CA	8.48	132.50	120.28
1	di	115	ILE	C-N-CA	8.48	129.58	119.99
1	ef	214	MET	N-CA-C	8.48	120.61	111.36
1	8K	124	ILE	CA-C-O	-8.48	115.11	120.88
1	8P	192	GLN	N-CA-C	8.48	120.61	111.36
1	9e	172	LEU	CA-C-N	8.48	132.00	120.38
1	9e	172	LEU	C-N-CA	8.48	132.00	120.38
1	dm	195	ASN	CA-CB-CG	8.48	121.08	112.60
1	e6	80	TRP	CA-C-N	8.48	131.65	120.28
1	e6	80	TRP	C-N-CA	8.48	131.65	120.28
1	eP	213	GLU	CA-C-N	8.48	131.65	120.28
1	eP	213	GLU	C-N-CA	8.48	131.65	120.28
1	fn	119	THR	N-CA-CB	8.48	123.42	110.61
1	fq	122	PRO	CA-C-N	8.48	130.44	119.84
1	fq	122	PRO	C-N-CA	8.48	130.44	119.84
1	fZ	167	ARG	NE-CZ-NH1	8.48	129.98	121.50
1	G	132	ARG	O-C-N	-8.48	113.13	122.12
1	gf	116	GLY	CA-C-O	8.48	130.16	121.00
1	io	2	ILE	CA-C-O	-8.48	112.15	121.23
1	3z	101	GLY	O-C-N	8.48	130.33	122.19
1	4u	115	ILE	CA-C-N	8.48	129.40	119.98
1	4u	115	ILE	C-N-CA	8.48	129.40	119.98
1	aC	124	ILE	CA-C-O	-8.48	113.01	119.20
1	1M	109	SER	CA-C-N	8.48	133.29	120.82
1	1M	109	SER	C-N-CA	8.48	133.29	120.82
1	j2	160	PRO	CA-C-N	8.48	132.49	120.28
1	j2	160	PRO	C-N-CA	8.48	132.49	120.28
1	jq	141	ILE	N-CA-CB	8.48	122.08	110.54
1	kc	9	GLN	OE1-CD-NE2	-8.48	114.12	122.60
1	9C	146	SER	N-CA-C	8.48	120.00	109.57
1	bY	6	LEU	O-C-N	-8.48	113.69	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ke	122	PRO	CA-C-N	8.48	129.00	119.93
1	ke	122	PRO	C-N-CA	8.48	129.00	119.93
1	22	146	SER	CA-C-N	8.48	129.86	120.45
1	22	146	SER	C-N-CA	8.48	129.86	120.45
1	kK	149	SER	O-C-N	-8.48	113.55	123.22
1	l8	37	ILE	N-CA-CB	8.48	117.06	110.45
1	lJ	28	GLU	CA-C-N	8.48	131.46	120.44
1	lJ	28	GLU	C-N-CA	8.48	131.46	120.44
1	3H	167	ARG	NE-CZ-NH1	8.48	129.98	121.50
1	4f	78	ALA	CA-C-N	8.48	131.99	120.54
1	4f	78	ALA	C-N-CA	8.48	131.99	120.54
1	73	81	ASP	CA-C-O	8.48	129.72	119.97
1	7d	124	ILE	O-C-N	-8.48	115.53	121.55
1	Z	57	ASN	CA-CB-CG	-8.48	104.12	112.60
1	aR	51	ASP	CA-CB-CG	-8.48	104.12	112.60
1	cc	223	GLY	O-C-N	-8.48	113.29	121.77
1	cE	127	GLY	CA-C-N	8.48	131.65	120.28
1	cE	127	GLY	C-N-CA	8.48	131.65	120.28
1	d0	102	SER	CA-C-O	8.48	129.83	119.31
1	db	76	GLU	CA-C-N	8.48	131.46	120.44
1	db	76	GLU	C-N-CA	8.48	131.46	120.44
1	ep	141	ILE	N-CA-CB	8.48	120.47	110.55
1	fv	188	THR	CA-C-N	8.48	132.49	120.28
1	fv	188	THR	C-N-CA	8.48	132.49	120.28
1	g9	32	PHE	CA-CB-CG	-8.48	105.32	113.80
1	3X	226	HIS	CA-CB-CG	8.48	122.28	113.80
1	78	36	VAL	CA-C-N	8.48	127.11	120.33
1	78	36	VAL	C-N-CA	8.48	127.11	120.33
1	8c	163	ASP	CA-CB-CG	8.48	121.08	112.60
1	8w	130	TYR	CA-C-N	8.48	131.64	120.28
1	8w	130	TYR	C-N-CA	8.48	131.64	120.28
1	Z	145	TYR	CB-CG-CD1	-8.48	108.08	120.80
1	ab	87	HIS	CE1-NE2-CD2	-8.48	100.52	109.00
1	12	96	MET	N-CA-C	8.48	121.59	111.33
1	aC	100	ARG	CA-C-N	8.48	129.57	119.99
1	cS	168	PHE	O-C-N	-8.48	113.13	122.12
1	gf	45	GLU	N-CA-C	8.48	121.58	111.33
1	gW	30	LYS	CA-C-O	8.48	129.91	118.38
1	jg	162	ARG	CA-C-N	8.48	131.46	120.44
1	jg	162	ARG	C-N-CA	8.48	131.46	120.44
1	lo	110	THR	CA-C-N	8.48	131.99	120.38
1	lo	110	THR	C-N-CA	8.48	131.99	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	194	ALA	CA-C-N	8.48	132.18	120.65
1	2O	194	ALA	C-N-CA	8.48	132.18	120.65
1	3Q	79	GLU	N-CA-C	8.48	120.52	111.28
1	4J	229	ARG	NE-CZ-NH2	8.48	126.83	119.20
1	6O	37	ILE	N-CA-CB	8.48	115.84	110.50
1	6Z	130	TYR	N-CA-C	8.48	120.52	111.28
1	aC	100	ARG	C-N-CA	8.48	129.57	119.99
1	S	162	ARG	NE-CZ-NH2	-8.48	111.57	119.20
1	7e	142	VAL	N-CA-C	8.48	118.56	110.42
1	7m	42	ALA	N-CA-C	8.48	121.46	111.71
1	7x	77	ALA	N-CA-C	8.48	121.28	111.11
1	7O	199	LYS	N-CA-C	8.48	120.52	111.28
1	8s	15	ILE	N-CA-C	8.48	120.37	108.93
1	9R	90	PRO	CB-CA-C	8.48	122.40	111.46
1	al	18	ARG	CA-C-N	8.48	131.46	120.44
1	al	18	ARG	C-N-CA	8.48	131.46	120.44
1	eh	92	GLU	CA-C-O	-8.48	111.55	120.28
1	aD	103	ASP	CA-CB-CG	-8.48	104.12	112.60
1	aT	227	LYS	N-CA-C	8.48	121.26	110.24
1	19	29	GLU	N-CA-C	8.48	121.65	111.82
1	cO	80	TRP	CA-C-N	8.48	131.98	120.54
1	cO	80	TRP	C-N-CA	8.48	131.98	120.54
1	dI	146	SER	O-C-N	-8.48	113.69	121.66
1	f6	179	GLN	CA-C-N	8.48	131.46	120.44
1	f6	179	GLN	C-N-CA	8.48	131.46	120.44
1	1w	5	ASN	CA-CB-CG	-8.48	104.12	112.60
1	v	174	ALA	N-CA-C	8.48	120.14	111.07
1	U	28	GLU	N-CA-C	8.48	120.14	111.07
1	hk	95	GLN	OE1-CD-NE2	-8.47	114.12	122.60
1	kI	163	ASP	CA-C-N	8.47	131.46	120.44
1	kI	163	ASP	C-N-CA	8.47	131.46	120.44
1	9k	168	PHE	CA-CB-CG	-8.47	105.33	113.80
1	aA	162	ARG	NH1-CZ-NH2	-8.47	108.28	119.30
1	e9	61	GLY	O-C-N	-8.47	115.92	123.29
1	1D	45	GLU	N-CA-C	8.47	121.58	111.33
1	hw	195	ASN	CB-CA-C	8.47	122.91	109.27
1	jF	42	ALA	CA-C-O	8.47	129.67	120.10
1	2L	44	SER	N-CA-CB	8.47	122.76	110.47
1	4n	36	VAL	CA-C-N	8.47	127.11	120.33
1	4n	36	VAL	C-N-CA	8.47	127.11	120.33
1	4P	174	ALA	CA-C-N	8.47	132.77	120.82
1	4P	174	ALA	C-N-CA	8.47	132.77	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6f	220	GLY	CA-C-N	8.47	132.13	120.35
1	6f	220	GLY	C-N-CA	8.47	132.13	120.35
1	aF	104	ILE	CA-C-O	8.47	129.40	120.25
1	aH	172	LEU	N-CA-C	8.47	120.52	111.28
1	bt	9	GLN	N-CA-C	8.47	121.87	110.35
1	bD	177	ALA	N-CA-C	8.47	121.26	110.24
1	d9	202	LEU	N-CA-C	8.47	121.45	111.71
1	gs	130	TYR	O-C-N	-8.47	113.14	122.12
1	gu	114	GLN	N-CA-C	8.47	120.13	111.07
1	gI	76	GLU	CA-C-N	8.47	132.32	120.29
1	gI	76	GLU	C-N-CA	8.47	132.32	120.29
1	hQ	169	TYR	O-C-N	-8.47	113.14	122.12
1	hS	120	HIS	CA-CB-CG	8.47	122.27	113.80
1	jZ	23	TRP	N-CA-C	8.47	120.13	111.07
1	7q	143	ARG	NE-CZ-NH1	8.47	129.97	121.50
1	8X	193	ASN	CA-CB-CG	-8.47	104.13	112.60
1	9s	150	ILE	N-CA-CB	-8.47	101.35	112.36
1	a7	138	LEU	CA-C-N	8.47	131.99	120.38
1	k6	198	CYS	CA-C-N	8.47	132.48	120.28
1	k6	198	CYS	C-N-CA	8.47	132.48	120.28
1	k9	189	LEU	N-CA-C	8.47	120.13	111.07
1	lO	96	MET	N-CA-C	8.47	122.79	110.42
1	69	100	ARG	N-CA-C	-8.47	98.31	110.59
1	a7	138	LEU	C-N-CA	8.47	131.99	120.38
1	6n	224	PRO	CA-C-N	8.47	129.32	120.00
1	6n	224	PRO	C-N-CA	8.47	129.32	120.00
1	8i	87	HIS	CA-CB-CG	8.47	122.27	113.80
1	9d	62	HIS	ND1-CG-CD2	8.47	114.57	106.10
1	9X	138	LEU	CA-C-N	8.47	132.56	120.79
1	9X	138	LEU	C-N-CA	8.47	132.56	120.79
1	ac	103	ASP	CA-CB-CG	-8.47	104.13	112.60
1	aC	65	ALA	N-CA-C	8.47	120.51	111.28
1	bc	31	ALA	CA-C-O	8.47	132.94	120.83
1	gH	62	HIS	ND1-CG-CD2	8.47	114.57	106.10
1	iL	52	LEU	CA-C-N	8.47	131.45	120.44
1	iL	52	LEU	C-N-CA	8.47	131.45	120.44
1	1X	82	ARG	NE-CZ-NH2	-8.47	111.58	119.20
1	kH	133	TRP	CA-C-N	8.47	131.23	120.56
1	kH	133	TRP	C-N-CA	8.47	131.23	120.56
1	lH	91	ILE	CA-C-N	8.47	131.61	120.26
1	lH	91	ILE	C-N-CA	8.47	131.61	120.26
1	lJ	60	GLY	CA-C-N	8.47	131.82	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lJ	60	GLY	C-N-CA	8.47	131.82	121.83
1	2c	140	LYS	N-CA-C	8.47	120.13	111.07
1	2p	108	THR	CA-C-O	8.47	129.47	119.56
1	2w	18	ARG	O-C-N	-8.47	112.94	122.09
1	3o	137	GLY	N-CA-C	8.47	123.16	112.83
1	59	74	ASN	CA-C-N	8.47	131.45	120.44
1	59	74	ASN	C-N-CA	8.47	131.45	120.44
1	db	71	GLU	CA-C-N	8.47	131.63	120.28
1	db	71	GLU	C-N-CA	8.47	131.63	120.28
1	7l	215	MET	CA-C-N	8.47	131.45	120.44
1	7l	215	MET	C-N-CA	8.47	131.45	120.44
1	7T	5	ASN	CA-CB-CG	8.47	121.07	112.60
1	9E	98	GLU	N-CA-CB	-8.47	98.86	110.29
1	9M	37	ILE	CA-C-O	-8.47	113.02	118.69
1	aL	37	ILE	O-C-N	-8.47	115.00	120.42
1	14	9	GLN	CA-C-N	8.47	133.16	121.05
1	14	9	GLN	C-N-CA	8.47	133.16	121.05
1	bT	53	ASN	N-CA-C	8.47	120.13	111.07
1	cc	212	GLU	CA-C-N	8.47	131.63	120.28
1	cc	212	GLU	C-N-CA	8.47	131.63	120.28
1	1g	84	HIS	CE1-NE2-CD2	-8.47	100.53	109.00
1	1g	115	ILE	CA-C-N	8.47	129.34	119.94
1	1g	115	ILE	C-N-CA	8.47	129.34	119.94
1	dP	4	GLN	N-CA-C	8.47	122.53	108.73
1	dR	16	SER	CA-C-N	8.47	130.43	119.84
1	dR	16	SER	C-N-CA	8.47	130.43	119.84
1	fg	197	ASP	N-CA-C	8.47	120.51	111.28
1	hw	72	THR	N-CA-C	8.46	120.13	111.07
1	iv	21	ASN	CA-C-N	8.46	131.44	120.44
1	iv	21	ASN	C-N-CA	8.46	131.44	120.44
1	iv	167	ARG	NE-CZ-NH2	8.47	126.82	119.20
1	lc	28	GLU	N-CA-C	8.46	120.51	111.28
1	lK	201	ILE	N-CA-C	8.46	119.27	110.72
1	lO	32	PHE	CA-CB-CG	-8.46	105.33	113.80
1	2o	149	SER	CA-C-O	8.47	129.61	120.38
1	3L	141	ILE	O-C-N	-8.46	113.32	121.87
1	4u	58	THR	CA-C-N	8.46	133.05	120.69
1	4u	58	THR	C-N-CA	8.46	133.05	120.69
1	5W	121	ASN	OD1-CG-ND2	-8.46	114.14	122.60
1	6N	120	HIS	N-CA-C	8.46	121.24	110.24
1	6U	221	VAL	CA-C-O	8.47	127.67	119.97
1	7g	140	LYS	O-C-N	8.47	131.80	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	187	GLU	N-CA-C	8.46	120.59	111.36
1	86	14	ALA	N-CA-C	8.46	121.86	110.35
1	cz	15	ILE	O-C-N	-8.47	113.38	122.61
1	eH	129	ILE	N-CA-CB	8.47	121.41	110.57
1	8u	181	VAL	CA-C-N	8.46	131.62	120.28
1	8u	181	VAL	C-N-CA	8.46	131.62	120.28
1	8v	67	GLN	OE1-CD-NE2	-8.46	114.14	122.60
1	8Q	57	ASN	CA-CB-CG	-8.46	104.14	112.60
1	94	102	SER	O-C-N	-8.46	112.50	122.15
1	a4	63	GLN	OE1-CD-NE2	-8.46	114.14	122.60
1	a8	114	GLN	CA-C-N	8.46	131.23	120.56
1	a8	114	GLN	C-N-CA	8.46	131.23	120.56
1	bk	163	ASP	O-C-N	-8.46	113.15	122.12
1	cg	182	LYS	CA-C-N	8.46	131.44	120.44
1	cg	182	LYS	C-N-CA	8.46	131.44	120.44
1	cI	214	MET	CA-C-N	8.46	131.62	120.28
1	cI	214	MET	C-N-CA	8.46	131.62	120.28
1	cS	146	SER	O-C-N	-8.46	112.63	121.60
1	e7	84	HIS	CA-C-N	8.46	128.50	119.78
1	e7	84	HIS	C-N-CA	8.46	128.50	119.78
1	ef	97	ARG	N-CA-C	8.46	121.52	110.43
1	1q	33	SER	O-C-N	-8.46	114.01	121.71
1	em	178	SER	O-C-N	-8.46	113.46	122.94
1	fQ	96	MET	N-CA-C	8.46	122.20	110.35
1	gO	72	THR	O-C-N	-8.46	112.32	122.22
1	ii	50	GLN	N-CA-C	8.46	120.58	111.36
1	iE	185	MET	O-C-N	-8.46	113.35	122.07
1	kh	166	ASP	CA-CB-CG	8.46	121.06	112.60
1	kJ	53	ASN	CA-CB-CG	-8.46	104.14	112.60
1	lh	36	VAL	CA-C-N	8.46	125.57	120.24
1	lh	36	VAL	C-N-CA	8.46	125.57	120.24
1	az	18	ARG	N-CA-C	8.46	120.50	111.28
1	c9	168	PHE	CA-CB-CG	-8.46	105.34	113.80
1	d3	191	VAL	N-CA-C	8.46	120.22	111.00
1	dv	57	ASN	CA-CB-CG	-8.46	104.14	112.60
1	he	125	PRO	CA-C-N	8.46	132.05	120.46
1	he	125	PRO	C-N-CA	8.46	132.05	120.46
1	iN	143	ARG	NH1-CZ-NH2	-8.46	108.30	119.30
1	l4	86	VAL	CA-C-O	8.46	126.35	118.90
1	lt	53	ASN	CA-C-N	8.46	131.62	120.28
1	lt	53	ASN	C-N-CA	8.46	131.62	120.28
1	4e	82	ARG	NE-CZ-NH2	-8.46	111.58	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bu	53	ASN	CA-CB-CG	-8.46	104.14	112.60
1	dQ	173	ARG	NE-CZ-NH1	8.46	129.96	121.50
1	et	117	TRP	N-CA-C	8.46	120.50	111.28
1	jv	33	SER	O-C-N	-8.46	115.47	121.65
1	4g	200	THR	CA-C-N	8.46	131.51	120.60
1	4g	200	THR	C-N-CA	8.46	131.51	120.60
1	5T	120	HIS	CA-CB-CG	8.46	122.26	113.80
1	5M	188	THR	N-CA-C	8.46	120.42	111.03
1	69	192	GLN	N-CA-C	8.46	120.58	111.36
1	7j	192	GLN	N-CA-C	8.46	120.50	111.28
1	9J	142	VAL	N-CA-C	8.46	119.25	110.62
1	9O	33	SER	CA-C-O	-8.46	111.55	119.76
1	al	169	TYR	N-CA-C	8.46	122.10	111.69
1	cz	125	PRO	N-CA-CB	-8.46	95.76	102.36
1	dX	124	ILE	O-C-N	-8.46	113.79	121.41
1	cT	223	GLY	CA-C-N	8.46	128.52	119.89
1	cT	223	GLY	C-N-CA	8.46	128.52	119.89
1	dj	154	ARG	NH1-CZ-NH2	-8.46	108.30	119.30
1	j5	188	THR	CA-C-N	8.46	131.62	120.28
1	j5	188	THR	C-N-CA	8.46	131.62	120.28
1	eP	57	ASN	CA-C-N	8.46	131.62	120.28
1	h5	95	GLN	O-C-N	-8.46	113.03	122.84
1	kj	192	GLN	N-CA-C	8.46	120.50	111.28
1	lL	15	ILE	O-C-N	-8.46	113.39	122.61
1	3h	204	ALA	N-CA-C	8.46	120.50	111.28
1	ds	121	ASN	CA-CB-CG	-8.46	104.14	112.60
1	eP	57	ASN	C-N-CA	8.46	131.62	120.28
1	5N	140	LYS	N-CA-C	8.46	120.50	111.28
1	6M	18	ARG	NE-CZ-NH2	-8.46	111.59	119.20
1	77	36	VAL	CA-C-N	8.46	125.57	120.24
1	77	36	VAL	C-N-CA	8.46	125.57	120.24
1	7G	204	ALA	CA-C-O	-8.46	110.24	119.97
1	85	29	GLU	N-CA-C	8.46	120.50	111.28
1	8L	55	MET	N-CA-C	8.46	121.56	111.33
1	9N	224	PRO	N-CA-C	8.46	124.56	111.11
1	au	172	LEU	N-CA-C	8.46	123.17	113.02
1	13	54	THR	CA-C-N	8.46	131.44	120.44
1	13	54	THR	C-N-CA	8.46	131.44	120.44
1	b7	177	ALA	CA-C-O	8.46	130.45	121.15
1	1a	81	ASP	N-CA-C	8.46	120.12	111.07
1	1i	197	ASP	CA-CB-CG	-8.46	104.14	112.60
1	1l	39	MET	CA-C-N	8.46	131.81	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	39	MET	C-N-CA	8.46	131.81	120.65
1	1n	199	LYS	N-CA-C	8.46	121.56	111.33
1	f5	28	GLU	N-CA-C	8.46	120.50	111.28
1	A	63	GLN	CA-C-N	8.46	131.97	120.38
1	A	63	GLN	C-N-CA	8.46	131.97	120.38
1	1L	191	VAL	CA-C-N	8.46	131.61	120.28
1	1L	191	VAL	C-N-CA	8.46	131.61	120.28
1	hN	217	ALA	N-CA-CB	8.46	122.35	110.17
1	2z	218	CYS	N-CA-CB	8.46	124.78	110.49
1	43	199	LYS	N-CA-C	8.46	120.50	111.28
1	dH	42	ALA	N-CA-C	8.46	120.58	111.36
1	gB	181	VAL	N-CA-C	8.45	118.54	110.42
1	hn	195	ASN	CA-CB-CG	8.45	121.05	112.60
1	1O	48	THR	O-C-N	-8.45	112.06	121.53
1	j5	101	GLY	CA-C-N	8.45	131.61	120.28
1	j5	101	GLY	C-N-CA	8.45	131.61	120.28
1	km	111	LEU	N-CA-C	8.45	121.25	111.11
1	lB	167	ARG	NE-CZ-NH2	-8.45	111.59	119.20
1	4n	129	ILE	CA-C-N	8.46	131.43	120.44
1	4n	129	ILE	C-N-CA	8.46	131.43	120.44
1	60	200	THR	O-C-N	-8.45	113.16	122.12
1	6q	226	HIS	CA-C-O	8.45	127.92	119.97
1	7a	39	MET	O-C-N	-8.46	113.16	122.12
1	9a	133	TRP	CB-CG-CD2	-8.46	114.96	126.80
1	81	69	LEU	CA-C-N	8.45	131.43	120.44
1	81	69	LEU	C-N-CA	8.45	131.43	120.44
1	9m	135	ILE	CA-C-N	8.46	131.96	120.54
1	9m	135	ILE	C-N-CA	8.46	131.96	120.54
1	dI	129	ILE	CA-C-O	-8.46	112.21	121.17
1	bL	61	GLY	N-CA-C	8.45	121.63	112.33
1	d6	54	THR	N-CA-C	8.45	120.50	111.28
1	ek	70	LYS	N-CA-C	8.45	120.58	111.36
1	fb	230	VAL	N-CA-C	8.45	121.80	109.63
1	fK	184	TRP	CA-C-N	8.46	131.43	120.44
1	fK	184	TRP	C-N-CA	8.46	131.43	120.44
1	g5	25	LYS	CA-C-N	8.45	131.27	120.70
1	g5	25	LYS	C-N-CA	8.45	131.27	120.70
1	u	56	LEU	O-C-N	-8.45	113.36	122.07
1	iK	21	ASN	OD1-CG-ND2	-8.45	114.15	122.60
1	jD	182	LYS	N-CA-C	8.45	121.56	111.33
1	5N	184	TRP	CA-C-N	8.45	131.61	120.28
1	5N	184	TRP	C-N-CA	8.45	131.61	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6h	229	ARG	N-CA-C	8.45	121.23	110.24
1	cu	83	LEU	O-C-N	8.45	130.78	122.07
1	hk	174	ALA	CA-C-N	8.45	133.24	120.82
1	hk	174	ALA	C-N-CA	8.45	133.24	120.82
1	je	10	MET	CA-C-N	8.45	137.18	121.97
1	je	10	MET	C-N-CA	8.45	137.18	121.97
1	jm	90	PRO	CA-C-N	8.45	131.82	120.50
1	jm	90	PRO	C-N-CA	8.45	131.82	120.50
1	kA	59	VAL	CB-CA-C	-8.45	100.51	111.25
1	jw	92	GLU	N-CA-C	8.45	120.37	109.64
1	kI	68	MET	CA-C-N	8.45	131.43	120.44
1	kI	68	MET	C-N-CA	8.45	131.43	120.44
1	2b	153	ILE	O-C-N	8.45	130.53	121.83
1	68	96	MET	O-C-N	-8.45	113.48	123.03
1	6Q	126	VAL	N-CA-C	8.45	120.25	110.62
1	bh	178	SER	O-C-N	-8.45	112.98	123.12
1	dg	68	MET	CG-SD-CE	-8.45	82.31	100.90
1	f1	173	ARG	NH1-CZ-NH2	-8.45	108.31	119.30
1	fW	82	ARG	NE-CZ-NH1	8.45	129.95	121.50
1	x	124	ILE	N-CA-C	-8.45	98.56	107.60
1	gO	83	LEU	CA-C-N	8.45	132.81	122.42
1	gO	83	LEU	C-N-CA	8.45	132.81	122.42
1	hR	10	MET	N-CA-C	8.45	121.84	110.35
1	i8	206	GLY	CA-C-N	8.45	130.40	119.84
1	i8	206	GLY	C-N-CA	8.45	130.40	119.84
1	j6	146	SER	O-C-N	-8.45	111.60	121.32
1	jk	127	GLY	CA-C-N	8.45	131.42	120.44
1	jk	127	GLY	C-N-CA	8.45	131.42	120.44
1	jl	47	ALA	N-CA-C	8.45	121.84	110.35
1	jZ	89	GLY	CA-C-N	8.45	130.40	119.84
1	jZ	89	GLY	C-N-CA	8.45	130.40	119.84
1	jC	194	ALA	N-CA-C	8.45	121.22	110.24
1	k7	37	ILE	N-CA-CB	8.45	117.04	110.45
1	lz	192	GLN	OE1-CD-NE2	-8.45	114.15	122.60
1	4m	226	HIS	CB-CG-CD2	-8.45	120.22	131.20
1	6r	70	LYS	CB-CA-C	8.45	124.82	110.79
1	6P	175	GLU	CA-C-N	8.45	133.24	120.82
1	6P	175	GLU	C-N-CA	8.45	133.24	120.82
1	7f	24	VAL	O-C-N	8.45	130.07	121.87
1	82	37	ILE	O-C-N	-8.45	114.07	120.07
1	87	210	THR	CA-C-N	8.45	131.60	120.28
1	87	210	THR	C-N-CA	8.45	131.60	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	95	89	GLY	CA-C-N	8.45	128.96	119.92
1	95	89	GLY	C-N-CA	8.45	128.96	119.92
1	9t	40	PHE	N-CA-C	8.45	120.49	111.28
1	9H	170	LYS	N-CA-C	8.45	120.49	111.28
1	9I	37	ILE	CA-C-O	-8.45	111.67	118.85
1	ed	153	ILE	CB-CA-C	-8.45	99.97	111.63
1	er	135	ILE	N-CA-C	8.45	119.24	110.62
1	gD	165	VAL	N-CA-C	8.45	119.24	110.62
1	hW	66	MET	CA-C-N	8.45	131.60	120.28
1	hW	66	MET	C-N-CA	8.45	131.60	120.28
1	jI	40	PHE	CA-C-N	8.45	131.42	120.44
1	he	3	VAL	CA-C-N	8.45	134.68	122.35
1	he	3	VAL	C-N-CA	8.45	134.68	122.35
1	ja	121	ASN	OD1-CG-ND2	-8.45	114.15	122.60
1	jI	40	PHE	C-N-CA	8.45	131.42	120.44
1	kF	15	ILE	N-CA-C	8.45	120.77	109.37
1	kL	36	VAL	O-C-N	-8.45	113.61	121.89
1	kW	82	ARG	NE-CZ-NH1	8.45	129.95	121.50
1	l8	7	GLN	CB-CG-CD	8.45	126.96	112.60
1	2k	62	HIS	CA-CB-CG	-8.45	105.35	113.80
1	2Q	132	ARG	N-CA-C	8.45	120.11	111.07
1	4H	143	ARG	NE-CZ-NH2	-8.45	111.60	119.20
1	5H	46	GLY	CA-C-N	8.45	133.40	121.24
1	5H	46	GLY	C-N-CA	8.45	133.40	121.24
1	7d	229	ARG	NE-CZ-NH2	-8.45	111.60	119.20
1	bt	122	PRO	CA-C-O	-8.45	108.31	120.56
1	m	198	CYS	CA-C-O	-8.45	109.85	119.14
1	j4	21	ASN	CA-C-N	8.44	131.42	120.44
1	j4	21	ASN	C-N-CA	8.44	131.42	120.44
1	jO	182	LYS	N-CA-C	8.44	121.61	111.82
1	jS	115	ILE	CA-C-N	8.45	129.53	119.99
1	jS	115	ILE	C-N-CA	8.45	129.53	119.99
1	kj	5	ASN	OD1-CG-ND2	-8.44	114.16	122.60
1	3F	26	VAL	N-CA-C	8.45	119.23	110.36
1	9A	74	ASN	CB-CA-C	8.45	124.25	110.90
1	af	50	GLN	N-CA-C	8.45	120.49	111.28
1	b7	191	VAL	N-CA-C	8.45	118.47	110.53
1	70	68	MET	CA-C-N	8.44	131.42	120.44
1	70	68	MET	C-N-CA	8.44	131.42	120.44
1	9S	154	ARG	NE-CZ-NH1	-8.44	113.06	121.50
1	a0	73	ILE	N-CA-C	8.44	119.23	110.36
1	cI	139	ASN	CA-CB-CG	8.45	121.05	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	118	MET	N-CA-C	8.45	120.48	111.28
1	fB	28	GLU	CA-C-N	8.44	131.92	120.44
1	fB	28	GLU	C-N-CA	8.44	131.92	120.44
1	gC	171	THR	N-CA-CB	8.44	122.53	110.12
1	go	3	VAL	O-C-N	-8.44	113.95	123.07
1	hk	13	GLN	OE1-CD-NE2	-8.44	114.16	122.60
1	22	12	HIS	CA-C-N	8.44	136.06	122.81
1	22	12	HIS	C-N-CA	8.44	136.06	122.81
1	l7	82	ARG	NE-CZ-NH1	8.44	129.94	121.50
1	86	124	ILE	N-CA-C	-8.44	99.19	107.55
1	9m	113	GLU	CA-C-O	8.44	129.69	120.82
1	e5	230	VAL	O-C-N	-8.44	113.92	122.62
1	ew	76	GLU	CA-C-N	8.44	131.42	120.44
1	2l	57	ASN	CA-CB-CG	-8.44	104.16	112.60
1	7N	214	MET	N-CA-C	8.44	120.48	111.28
1	aC	210	THR	CA-C-O	8.44	130.76	121.56
1	aG	189	LEU	CA-C-N	8.44	131.41	120.44
1	aG	189	LEU	C-N-CA	8.44	131.41	120.44
1	bU	143	ARG	NE-CZ-NH1	8.44	129.94	121.50
1	1c	193	ASN	CA-C-N	8.44	133.23	120.82
1	1c	193	ASN	C-N-CA	8.44	133.23	120.82
1	cF	184	TRP	CA-C-N	8.44	131.41	120.44
1	cF	184	TRP	C-N-CA	8.44	131.41	120.44
1	cW	120	HIS	O-C-N	-8.44	113.17	122.79
1	ew	76	GLU	C-N-CA	8.44	131.42	120.44
1	eL	111	LEU	N-CA-C	8.44	121.42	111.71
1	T	53	ASN	CA-CB-CG	-8.44	104.16	112.60
1	gk	68	MET	CA-C-N	8.44	131.41	120.44
1	gk	68	MET	C-N-CA	8.44	131.41	120.44
1	1F	32	PHE	O-C-N	-8.44	110.70	122.26
1	h1	193	ASN	O-C-N	-8.44	112.21	122.34
1	hH	167	ARG	NH1-CZ-NH2	-8.44	108.33	119.30
1	hU	22	ALA	CA-C-N	8.44	131.41	120.44
1	hU	22	ALA	C-N-CA	8.44	131.41	120.44
1	1T	79	GLU	CA-C-N	8.44	131.59	120.28
1	1T	79	GLU	C-N-CA	8.44	131.59	120.28
1	jk	100	ARG	O-C-N	-8.44	113.23	122.85
1	lC	225	GLY	CA-C-N	8.44	134.68	121.26
1	lC	225	GLY	C-N-CA	8.44	134.68	121.26
1	6C	82	ARG	N-CA-C	8.44	120.48	111.28
1	bi	125	PRO	N-CA-CB	-8.44	96.57	102.73
1	c5	125	PRO	CA-C-N	8.44	131.49	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c5	125	PRO	C-N-CA	8.44	131.49	120.60
1	e1	110	THR	O-C-N	-8.44	113.49	123.03
1	hA	164	TYR	CA-C-N	8.44	131.19	120.56
1	hA	164	TYR	C-N-CA	8.44	131.19	120.56
1	hQ	26	VAL	N-CA-CB	8.44	122.02	110.54
1	1Q	229	ARG	NE-CZ-NH2	-8.44	111.61	119.20
1	iW	135	ILE	O-C-N	-8.44	113.69	121.87
1	1Y	24	VAL	CA-C-O	8.44	130.11	121.17
1	k2	140	LYS	CA-C-N	8.44	132.02	120.46
1	k2	140	LYS	C-N-CA	8.44	132.02	120.46
1	ke	70	LYS	N-CA-C	8.44	120.48	111.28
1	2k	101	GLY	CA-C-N	8.44	131.59	120.28
1	2k	101	GLY	C-N-CA	8.44	131.59	120.28
1	2k	176	GLN	OE1-CD-NE2	-8.44	114.16	122.60
1	3t	183	ASN	CA-CB-CG	-8.44	104.16	112.60
1	4b	97	ARG	N-CA-C	8.44	121.21	110.24
1	63	98	GLU	CA-C-N	8.44	128.96	119.93
1	63	98	GLU	C-N-CA	8.44	128.96	119.93
1	7r	98	GLU	CA-C-N	8.44	130.39	119.84
1	7r	98	GLU	C-N-CA	8.44	130.39	119.84
1	7v	10	MET	N-CA-C	8.44	122.67	110.10
1	8d	63	GLN	N-CA-C	8.44	121.61	111.82
1	9s	102	SER	O-C-N	-8.44	112.53	122.15
1	a8	57	ASN	OD1-CG-ND2	-8.44	114.16	122.60
1	cF	166	ASP	CA-CB-CG	8.44	121.04	112.60
1	dn	120	HIS	CA-CB-CG	8.44	122.24	113.80
1	1u	142	VAL	N-CA-C	8.44	120.24	110.62
1	fu	21	ASN	O-C-N	-8.44	112.98	122.09
1	gE	129	ILE	O-C-N	-8.44	113.50	121.94
1	hJ	196	PRO	CA-C-N	8.44	131.41	120.44
1	hJ	196	PRO	C-N-CA	8.44	131.41	120.44
1	iz	67	GLN	O-C-N	-8.44	113.31	122.09
1	jq	179	GLN	N-CA-C	8.44	120.47	111.28
1	jW	124	ILE	CB-CA-C	8.44	118.79	110.94
1	2s	18	ARG	CA-C-N	8.44	131.41	120.44
1	3B	82	ARG	N-CA-C	8.44	120.10	111.07
1	jG	161	PHE	CA-CB-CG	8.44	122.23	113.80
1	ko	57	ASN	CA-C-N	8.44	131.93	120.54
1	ko	57	ASN	C-N-CA	8.44	131.93	120.54
1	kw	134	ILE	N-CA-C	8.44	119.22	110.62
1	kS	43	LEU	CA-C-O	8.44	129.67	119.97
1	2s	18	ARG	C-N-CA	8.44	131.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2w	19	THR	N-CA-CB	8.44	122.52	110.12
1	3d	182	LYS	N-CA-C	8.44	120.47	111.28
1	5A	35	GLU	CA-C-O	8.44	129.91	119.11
1	5S	41	SER	CA-C-N	8.44	131.91	120.44
1	5S	41	SER	C-N-CA	8.44	131.91	120.44
1	7Q	113	GLU	CA-C-O	-8.44	111.61	120.55
1	8d	164	TYR	N-CA-C	8.44	120.48	111.28
1	8y	1	PRO	CA-C-N	8.44	133.56	122.93
1	8y	1	PRO	C-N-CA	8.44	133.56	122.93
1	9H	173	ARG	N-CA-C	8.44	120.10	111.07
1	67	178	SER	O-C-N	-8.44	112.81	122.68
1	9e	120	HIS	ND1-CE1-NE2	8.44	116.83	108.40
1	aH	76	GLU	CA-C-N	8.44	131.41	120.44
1	aH	76	GLU	C-N-CA	8.44	131.41	120.44
1	cg	119	THR	CA-C-N	8.44	135.97	120.95
1	b9	192	GLN	N-CA-C	8.44	120.10	111.07
1	bh	100	ARG	NE-CZ-NH2	-8.44	111.61	119.20
1	cg	119	THR	C-N-CA	8.44	135.97	120.95
1	cr	4	GLN	N-CA-C	8.44	121.21	110.24
1	dN	160	PRO	CA-C-N	8.44	131.41	120.44
1	dN	160	PRO	C-N-CA	8.44	131.41	120.44
1	l	143	ARG	NE-CZ-NH2	-8.44	111.61	119.20
1	x	87	HIS	CA-CB-CG	8.44	122.24	113.80
1	gy	51	ASP	CB-CA-C	-8.43	97.64	110.88
1	gG	129	ILE	CA-CB-CG1	8.43	124.74	110.40
1	1J	173	ARG	N-CA-C	8.43	120.09	111.07
1	ik	198	CYS	O-C-N	-8.43	113.18	122.12
1	iJ	27	VAL	N-CA-C	8.43	119.22	110.62
1	jP	194	ALA	N-CA-C	8.43	121.82	110.35
1	1Y	229	ARG	CA-C-O	8.43	130.60	121.16
1	kb	16	SER	CA-C-N	8.43	128.16	119.56
1	kb	16	SER	C-N-CA	8.43	128.16	119.56
1	l8	24	VAL	N-CA-CB	8.43	120.42	110.55
1	l8	132	ARG	NE-CZ-NH1	8.43	129.93	121.50
1	5Q	226	HIS	CE1-NE2-CD2	-8.43	100.57	109.00
1	2g	167	ARG	NE-CZ-NH1	8.43	129.93	121.50
1	2v	120	HIS	ND1-CE1-NE2	8.43	116.83	108.40
1	2Y	69	LEU	CA-C-N	8.43	132.26	120.29
1	2Y	69	LEU	C-N-CA	8.43	132.26	120.29
1	2Y	200	THR	CA-C-N	8.43	131.19	120.56
1	2Y	200	THR	C-N-CA	8.43	131.19	120.56
1	3d	126	VAL	N-CA-C	8.43	119.24	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Y	37	ILE	N-CA-CB	8.43	117.03	110.45
1	5W	134	ILE	O-C-N	-8.43	113.13	121.90
1	73	173	ARG	NH1-CZ-NH2	-8.43	108.34	119.30
1	7A	201	ILE	N-CA-C	8.43	118.52	110.42
1	7K	59	VAL	N-CA-C	8.43	119.24	110.72
1	bW	113	GLU	CA-C-N	8.43	131.40	120.44
1	bW	113	GLU	C-N-CA	8.43	131.40	120.44
1	cm	85	PRO	N-CA-CB	-8.43	94.39	103.25
1	cw	225	GLY	CA-C-N	8.43	131.58	120.28
1	cw	225	GLY	C-N-CA	8.43	131.58	120.28
1	50	112	GLN	N-CA-C	8.43	122.54	111.75
1	8I	82	ARG	N-CA-C	8.43	120.47	111.28
1	9m	208	ALA	CA-C-O	-8.43	110.27	119.97
1	eg	194	ALA	N-CA-C	8.43	121.94	110.55
1	eC	164	TYR	N-CA-C	8.43	120.47	111.28
1	eZ	150	ILE	N-CA-C	8.43	119.22	110.62
1	eU	175	GLU	O-C-N	-8.43	113.74	123.27
1	fd	67	GLN	N-CA-C	8.43	120.47	111.28
1	2	13	GLN	OE1-CD-NE2	-8.43	114.17	122.60
1	1U	11	VAL	N-CA-C	8.43	120.03	107.80
1	kp	121	ASN	CA-C-O	-8.43	113.01	119.59
1	lC	21	ASN	OD1-CG-ND2	-8.43	114.17	122.60
1	2d	83	LEU	N-CA-C	8.43	120.55	111.36
1	8s	79	GLU	N-CA-C	8.43	120.47	111.28
1	hd	24	VAL	CA-C-N	8.43	131.40	120.44
1	hd	24	VAL	C-N-CA	8.43	131.40	120.44
1	iJ	181	VAL	CB-CA-C	-8.43	100.76	112.14
1	3y	92	GLU	N-CA-C	8.43	120.35	109.64
1	4O	34	PRO	N-CA-CB	-8.43	95.48	103.41
1	7b	7	GLN	CA-C-N	8.43	132.02	121.06
1	bC	159	GLU	O-C-N	-8.43	112.85	121.28
1	cV	27	VAL	N-CA-C	8.43	119.21	110.36
1	1o	151	LEU	N-CA-C	8.43	120.47	111.28
1	j3	29	GLU	CA-C-O	8.43	128.12	118.77
1	j9	87	HIS	CA-CB-CG	-8.43	105.37	113.80
1	4q	145	TYR	CB-CG-CD1	-8.43	108.16	120.80
1	6I	33	SER	N-CA-C	8.43	115.57	108.07
1	7b	7	GLN	C-N-CA	8.43	132.02	121.06
1	7K	59	VAL	O-C-N	-8.43	113.15	121.83
1	8h	103	ASP	CA-C-N	8.43	131.18	120.56
1	8h	103	ASP	C-N-CA	8.43	131.18	120.56
1	8W	37	ILE	O-C-N	-8.43	111.49	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a5	128	GLU	CA-C-N	8.43	131.47	120.60
1	a5	128	GLU	C-N-CA	8.43	131.47	120.60
1	a7	12	HIS	CA-CB-CG	-8.43	105.37	113.80
1	ex	159	GLU	CA-C-N	8.43	130.38	119.84
1	ex	159	GLU	C-N-CA	8.43	130.38	119.84
1	g2	221	VAL	CA-C-N	8.43	133.54	122.75
1	g2	221	VAL	C-N-CA	8.43	133.54	122.75
1	bR	182	LYS	N-CA-C	8.43	120.47	111.28
1	dZ	36	VAL	CA-C-N	8.43	128.52	120.43
1	dZ	36	VAL	C-N-CA	8.43	128.52	120.43
1	f2	119	THR	CA-CB-CG2	8.43	124.83	110.50
1	b	217	ALA	N-CA-CB	-8.43	99.38	110.59
1	j	180	GLU	CA-C-N	8.43	132.01	120.46
1	j	180	GLU	C-N-CA	8.43	132.01	120.46
1	2	146	SER	O-C-N	-8.43	111.63	121.32
1	2V	229	ARG	N-CA-C	8.43	122.12	110.24
1	18	39	MET	N-CA-C	8.43	120.47	111.28
1	h0	227	LYS	O-C-N	-8.43	112.37	122.65
1	i4	130	TYR	O-C-N	-8.43	113.19	122.12
1	iq	24	VAL	CA-C-N	8.43	131.39	120.44
1	iq	24	VAL	C-N-CA	8.43	131.39	120.44
1	j3	68	MET	CA-C-N	8.43	132.26	120.29
1	j3	68	MET	C-N-CA	8.43	132.26	120.29
1	72	209	ALA	CA-C-N	8.43	133.47	120.75
1	jz	124	ILE	N-CA-C	-8.43	98.59	107.60
1	kG	66	MET	O-C-N	-8.43	113.19	122.12
1	72	209	ALA	C-N-CA	8.43	133.47	120.75
1	aa	181	VAL	N-CA-C	8.43	119.22	110.62
1	cR	39	MET	CA-C-N	8.43	131.40	120.44
1	cR	39	MET	C-N-CA	8.43	131.40	120.44
1	fB	29	GLU	CA-C-O	8.43	129.38	120.70
1	2M	179	GLN	N-CA-C	8.43	120.46	111.28
1	4w	21	ASN	OD1-CG-ND2	8.43	131.03	122.60
1	4L	195	ASN	CA-CB-CG	8.43	121.03	112.60
1	5i	84	HIS	CE1-NE2-CD2	-8.43	100.57	109.00
1	6A	156	GLY	CA-C-N	8.43	128.00	119.24
1	6A	156	GLY	C-N-CA	8.43	128.00	119.24
1	6G	97	ARG	NE-CZ-NH2	-8.43	111.62	119.20
1	7g	97	ARG	NE-CZ-NH1	8.43	129.93	121.50
1	aR	156	GLY	CA-C-N	8.43	129.80	120.45
1	aR	156	GLY	C-N-CA	8.43	129.80	120.45
1	bB	97	ARG	NE-CZ-NH2	8.43	126.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d3	179	GLN	N-CA-C	8.43	121.53	111.33
1	gi	32	PHE	N-CA-C	-8.42	102.56	112.92
1	1Q	166	ASP	CA-CB-CG	8.42	121.02	112.60
1	lm	205	LEU	CA-C-N	8.42	135.09	121.87
1	lm	205	LEU	C-N-CA	8.42	135.09	121.87
1	2a	136	LEU	CA-C-O	8.42	129.62	120.10
1	2J	136	LEU	CA-C-N	8.42	129.33	119.98
1	2J	136	LEU	C-N-CA	8.42	129.33	119.98
1	1j	36	VAL	N-CA-C	8.42	118.51	110.42
1	ik	169	TYR	N-CA-C	8.42	120.08	111.07
1	jt	36	VAL	CA-C-O	8.42	128.76	119.92
1	l8	36	VAL	CA-C-N	8.42	127.07	120.33
1	l8	36	VAL	C-N-CA	8.42	127.07	120.33
1	ln	159	GLU	O-C-N	-8.42	113.74	121.66
1	3a	101	GLY	CA-C-N	8.42	131.56	120.28
1	3a	101	GLY	C-N-CA	8.42	131.56	120.28
1	5O	173	ARG	NE-CZ-NH2	-8.42	111.62	119.20
1	6C	97	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	7j	4	GLN	N-CA-C	-8.42	103.05	112.57
1	7P	112	GLN	OE1-CD-NE2	8.42	131.02	122.60
1	8h	42	ALA	N-CA-C	8.42	120.08	111.07
1	9e	100	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	9M	142	VAL	O-C-N	-8.42	113.70	121.87
1	a2	59	VAL	N-CA-CB	8.42	121.16	111.39
1	bZ	166	ASP	CA-CB-CG	8.42	121.02	112.60
1	d4	200	THR	CA-C-N	8.42	131.17	120.56
1	d4	200	THR	C-N-CA	8.42	131.17	120.56
1	dv	229	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	eC	133	TRP	CA-C-N	8.42	131.17	120.56
1	eC	133	TRP	C-N-CA	8.42	131.17	120.56
1	eR	200	THR	CA-C-N	8.42	131.23	120.70
1	eR	200	THR	C-N-CA	8.42	131.23	120.70
1	fc	220	GLY	O-C-N	-8.42	113.12	122.55
1	em	128	GLU	O-C-N	-8.42	113.19	122.12
1	o	164	TYR	N-CA-C	8.42	121.52	111.33
1	gh	189	LEU	N-CA-C	8.42	120.46	111.28
1	1G	178	SER	N-CA-C	8.42	122.37	110.50
1	hK	142	VAL	CB-CA-C	-8.42	100.60	112.22
1	ig	192	GLN	N-CA-C	8.42	120.46	111.28
1	is	193	ASN	CA-CB-CG	-8.42	104.18	112.60
1	1U	138	LEU	CA-C-N	8.42	131.56	120.28
1	1U	138	LEU	C-N-CA	8.42	131.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	125	PRO	CA-C-N	8.42	131.17	120.56
1	lh	125	PRO	C-N-CA	8.42	131.17	120.56
1	lH	5	ASN	OD1-CG-ND2	-8.42	114.18	122.60
1	lL	68	MET	O-C-N	-8.42	112.55	122.15
1	2k	84	HIS	CA-C-N	8.42	128.49	119.90
1	2k	84	HIS	C-N-CA	8.42	128.49	119.90
1	2M	165	VAL	N-CA-C	8.42	119.22	110.72
1	3B	120	HIS	N-CA-C	8.42	121.19	110.33
1	5P	97	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	3a	15	ILE	CB-CA-C	8.42	120.85	111.59
1	4E	97	ARG	O-C-N	-8.42	112.24	123.10
1	6k	121	ASN	CA-C-N	8.42	129.05	120.38
1	6k	121	ASN	C-N-CA	8.42	129.05	120.38
1	6w	21	ASN	N-CA-C	8.42	121.29	111.02
1	8T	16	SER	CA-C-N	8.42	128.03	118.85
1	8T	16	SER	C-N-CA	8.42	128.03	118.85
1	11	141	ILE	N-CA-C	8.42	120.22	110.62
1	aG	146	SER	CA-C-O	-8.42	113.82	119.29
1	1j	229	ARG	NE-CZ-NH1	8.42	129.92	121.50
1	11	97	ARG	NH1-CZ-NH2	-8.42	108.36	119.30
1	cI	205	LEU	CA-C-O	8.42	129.34	120.42
1	1i	120	HIS	CA-CB-CG	8.42	122.22	113.80
1	e2	221	VAL	CA-C-N	8.42	130.95	120.34
1	e2	221	VAL	C-N-CA	8.42	130.95	120.34
1	eh	117	TRP	CA-C-N	8.42	131.56	120.28
1	eh	117	TRP	C-N-CA	8.42	131.56	120.28
1	eG	28	GLU	N-CA-C	8.42	120.15	110.97
1	g5	177	ALA	O-C-N	-8.42	112.90	122.75
1	fz	50	GLN	OE1-CD-NE2	-8.42	114.18	122.60
1	fL	41	SER	CA-C-N	8.42	131.56	120.28
1	fL	41	SER	C-N-CA	8.42	131.56	120.28
1	e	164	TYR	CA-C-O	-8.42	111.98	120.82
1	jh	120	HIS	CE1-NE2-CD2	-8.42	100.58	109.00
1	gy	76	GLU	N-CA-C	8.42	120.08	111.07
1	hw	77	ALA	N-CA-C	8.42	120.45	111.28
1	ir	60	GLY	CA-C-N	8.42	128.34	120.34
1	ir	60	GLY	C-N-CA	8.42	128.34	120.34
1	jr	218	CYS	N-CA-C	8.42	123.13	112.86
1	kb	75	GLU	O-C-N	-8.42	113.40	122.07
1	2n	83	LEU	CA-C-O	-8.42	111.98	120.82
1	5e	66	MET	N-CA-C	8.42	121.52	111.33
1	5g	21	ASN	O-C-N	-8.42	113.40	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	123	PRO	CA-C-N	-8.42	116.53	122.59
1	6g	123	PRO	C-N-CA	-8.42	116.53	122.59
1	69	139	ASN	CA-C-O	8.42	129.47	120.55
1	8B	128	GLU	O-C-N	-8.42	113.20	122.12
1	9f	99	PRO	CA-C-O	-8.42	112.22	121.23
1	9H	84	HIS	CE1-NE2-CD2	-8.42	100.58	109.00
1	ax	46	GLY	CA-C-O	-8.42	111.38	119.04
1	aH	113	GLU	CA-C-N	8.42	131.38	120.44
1	aH	113	GLU	C-N-CA	8.42	131.38	120.44
1	bB	200	THR	O-C-N	-8.42	112.55	122.15
1	1f	167	ARG	N-CA-CB	8.42	122.22	110.01
1	fV	12	HIS	CG-CD2-NE2	8.42	115.62	107.20
1	q	21	ASN	CA-CB-CG	8.42	121.02	112.60
1	A	21	ASN	CA-CB-CG	8.42	121.02	112.60
1	hm	55	MET	O-C-N	-8.41	111.05	122.33
1	hs	12	HIS	CA-CB-CG	8.41	122.22	113.80
1	iO	110	THR	O-C-N	-8.41	112.93	122.86
1	25	82	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	5k	115	ILE	CA-C-N	8.41	129.28	119.94
1	5k	115	ILE	C-N-CA	8.41	129.28	119.94
1	5Y	132	ARG	N-CA-C	8.41	120.45	111.28
1	8l	9	GLN	CA-C-N	8.41	132.69	120.82
1	8l	9	GLN	C-N-CA	8.41	132.69	120.82
1	9N	40	PHE	O-C-N	-8.41	113.20	122.12
1	1J	41	SER	CA-C-O	8.41	129.65	120.82
1	i1	76	GLU	O-C-N	8.41	131.04	122.12
1	cP	51	ASP	CA-C-O	8.41	129.47	120.55
1	dl	226	HIS	ND1-CE1-NE2	8.41	116.81	108.40
1	eE	165	VAL	CA-C-N	8.41	131.56	120.28
1	eE	165	VAL	C-N-CA	8.41	131.56	120.28
1	iJ	121	ASN	CA-CB-CG	8.41	121.01	112.60
1	jN	1	PRO	N-CA-CB	8.41	112.25	103.00
1	kG	143	ARG	NE-CZ-NH2	8.41	126.77	119.20
1	l8	134	ILE	O-C-N	-8.41	113.71	121.87
1	6v	166	ASP	CA-CB-CG	8.41	121.01	112.60
1	7e	32	PHE	CA-CB-CG	-8.41	105.39	113.80
1	8q	120	HIS	CE1-NE2-CD2	-8.41	100.59	109.00
1	99	195	ASN	CA-CB-CG	8.41	121.01	112.60
1	7e	173	ARG	NE-CZ-NH2	-8.41	111.63	119.20
1	ar	152	ASP	CA-CB-CG	8.41	121.01	112.60
1	aO	121	ASN	OD1-CG-ND2	-8.41	114.19	122.60
1	cb	22	ALA	N-CA-C	8.41	120.07	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	120	HIS	CE1-NE2-CD2	-8.41	100.59	109.00
1	d3	162	ARG	O-C-N	-8.41	113.20	122.12
1	dg	178	SER	O-C-N	-8.41	112.52	122.87
1	ea	229	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	1y	82	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	j	52	LEU	N-CA-C	8.41	121.39	111.71
1	hm	205	LEU	CA-C-O	8.41	129.64	119.97
1	hI	162	ARG	NE-CZ-NH2	-8.41	111.63	119.20
1	iW	57	ASN	CA-CB-CG	-8.41	104.19	112.60
1	k1	183	ASN	OD1-CG-ND2	-8.41	114.19	122.60
1	kr	139	ASN	OD1-CG-ND2	8.41	131.01	122.60
1	lB	16	SER	CA-C-N	8.41	128.14	119.56
1	lB	16	SER	C-N-CA	8.41	128.14	119.56
1	2n	40	PHE	CA-C-N	8.41	131.55	120.28
1	2n	40	PHE	C-N-CA	8.41	131.55	120.28
1	2z	195	ASN	CA-C-N	8.41	129.23	119.47
1	2z	195	ASN	C-N-CA	8.41	129.23	119.47
1	2O	41	SER	O-C-N	-8.41	113.34	122.09
1	8f	62	HIS	CB-CG-CD2	-8.41	120.27	131.20
1	ac	119	THR	CA-C-N	8.41	132.76	120.90
1	3R	37	ILE	N-CA-CB	-8.41	104.89	110.52
1	6w	55	MET	O-C-N	-8.41	113.21	122.12
1	ac	119	THR	C-N-CA	8.41	132.76	120.90
1	b3	162	ARG	N-CA-C	8.41	120.45	111.28
1	19	65	ALA	CA-C-N	8.41	132.23	120.29
1	19	65	ALA	C-N-CA	8.41	132.23	120.29
1	bZ	136	LEU	CB-CA-C	8.41	124.27	110.81
1	cZ	143	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	dl	124	ILE	CA-C-O	8.41	125.10	119.38
1	dD	12	HIS	CA-CB-CG	8.41	122.21	113.80
1	1p	205	LEU	N-CA-C	8.41	120.45	111.28
1	ex	15	ILE	N-CA-C	8.41	120.72	109.37
1	fQ	66	MET	N-CA-CB	8.41	122.48	110.12
1	i	37	ILE	O-C-N	-8.41	115.04	120.42
1	f7	79	GLU	CA-C-N	8.41	131.55	120.28
1	f7	79	GLU	C-N-CA	8.41	131.55	120.28
1	gi	3	VAL	O-C-N	-8.41	114.18	123.26
1	hv	60	GLY	CA-C-N	8.41	131.44	122.69
1	hv	60	GLY	C-N-CA	8.41	131.44	122.69
1	jS	162	ARG	N-CA-C	8.41	120.07	111.07
1	lm	211	LEU	N-CA-C	8.41	121.38	111.71
1	h3	87	HIS	CE1-NE2-CD2	-8.41	100.59	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	167	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	ke	163	ASP	CA-CB-CG	8.41	121.01	112.60
1	2e	153	ILE	N-CA-C	8.41	121.09	108.23
1	2U	91	ILE	O-C-N	-8.41	114.11	122.94
1	3f	154	ARG	NH1-CZ-NH2	-8.41	108.37	119.30
1	4s	82	ARG	N-CA-CB	8.41	123.31	110.28
1	4v	180	GLU	N-CA-C	8.41	122.80	112.54
1	5S	195	ASN	CA-C-N	8.41	128.38	119.05
1	5S	195	ASN	C-N-CA	8.41	128.38	119.05
1	8C	182	LYS	N-CA-C	8.41	120.44	111.28
1	9j	165	VAL	N-CA-CB	8.41	120.39	110.55
1	i	167	ARG	NE-CZ-NH2	-8.41	111.63	119.20
1	5S	112	GLN	CA-C-N	8.41	131.54	120.28
1	5S	112	GLN	C-N-CA	8.41	131.54	120.28
1	5T	173	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	7i	226	HIS	CA-CB-CG	8.41	122.21	113.80
1	8I	115	ILE	CA-C-O	-8.41	112.20	120.95
1	8k	149	SER	N-CA-CB	8.41	124.70	110.49
1	8V	41	SER	N-CA-C	8.41	120.44	111.28
1	9h	16	SER	CA-C-O	-8.41	113.03	120.60
1	9t	120	HIS	CA-CB-CG	8.41	122.21	113.80
1	14	202	LEU	O-C-N	-8.41	113.21	122.12
1	cu	121	ASN	CA-C-O	-8.41	111.48	119.55
1	dr	173	ARG	NE-CZ-NH1	8.41	129.91	121.50
1	ey	121	ASN	CA-CB-CG	-8.41	104.19	112.60
1	fH	177	ALA	CA-C-N	8.41	132.68	120.82
1	fH	177	ALA	C-N-CA	8.41	132.68	120.82
1	gB	173	ARG	CA-C-N	8.40	132.38	120.28
1	gB	173	ARG	C-N-CA	8.40	132.38	120.28
1	gW	186	THR	CA-CB-OG1	8.40	122.21	109.60
1	hp	162	ARG	NE-CZ-NH2	-8.40	111.64	119.20
1	ia	177	ALA	CA-C-N	8.40	132.75	120.90
1	ia	177	ALA	C-N-CA	8.40	132.75	120.90
1	2Z	4	GLN	N-CA-C	8.40	122.72	110.28
1	3u	183	ASN	CA-CB-CG	-8.40	104.19	112.60
1	6p	65	ALA	CA-C-O	8.40	129.33	120.42
1	ay	83	LEU	N-CA-C	8.40	121.65	111.40
1	3I	126	VAL	CA-C-O	8.40	129.79	121.05
1	4v	198	CYS	CA-C-O	-8.40	112.04	120.70
1	5c	179	GLN	N-CA-C	8.40	120.44	111.28
1	5f	143	ARG	NE-CZ-NH2	-8.40	111.64	119.20
1	5r	14	ALA	CA-C-N	8.40	131.81	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	14	ALA	C-N-CA	8.40	131.81	120.63
1	6n	183	ASN	CA-CB-CG	-8.40	104.20	112.60
1	6E	74	ASN	OD1-CG-ND2	-8.40	114.20	122.60
1	7a	106	GLY	O-C-N	-8.40	114.87	122.77
1	7b	62	HIS	N-CA-C	8.40	123.02	111.17
1	7k	150	ILE	N-CA-C	-8.40	103.59	113.42
1	7Z	160	PRO	N-CA-CB	8.40	110.38	103.32
1	dw	226	HIS	CG-CD2-NE2	8.40	115.60	107.20
1	fW	66	MET	N-CA-C	8.40	120.44	111.28
1	1B	219	GLN	OE1-CD-NE2	-8.40	114.20	122.60
1	gr	138	LEU	CA-C-N	8.40	131.89	120.38
1	gr	138	LEU	C-N-CA	8.40	131.89	120.38
1	kB	6	LEU	O-C-N	-8.40	112.72	122.97
1	lw	169	TYR	CA-C-N	8.40	131.54	120.28
1	lw	169	TYR	C-N-CA	8.40	131.54	120.28
1	4X	96	MET	N-CA-C	8.40	121.16	110.24
1	1a	185	MET	O-C-N	-8.40	113.42	122.07
1	o	56	LEU	O-C-N	-8.40	112.39	122.22
1	gZ	54	THR	N-CA-C	8.40	120.44	111.28
1	hl	33	SER	O-C-N	-8.40	116.33	121.71
1	hy	52	LEU	O-C-N	-8.40	113.22	122.12
1	i8	116	GLY	CA-C-N	8.40	131.54	120.28
1	i8	116	GLY	C-N-CA	8.40	131.54	120.28
1	id	10	MET	N-CA-C	8.40	122.11	110.35
1	iD	154	ARG	NE-CZ-NH1	8.40	129.90	121.50
1	jG	205	LEU	CA-C-O	8.40	129.18	119.18
1	aE	191	VAL	N-CA-C	8.40	119.18	110.36
1	E	63	GLN	OE1-CD-NE2	-8.40	114.20	122.60
1	iO	117	TRP	N-CA-C	8.40	120.44	111.28
1	1S	121	ASN	CA-CB-CG	-8.40	104.20	112.60
1	jt	22	ALA	CA-C-N	8.40	131.88	120.54
1	jt	22	ALA	C-N-CA	8.40	131.88	120.54
1	jw	97	ARG	N-CA-CB	8.40	122.32	109.97
1	k6	124	ILE	N-CA-C	-8.40	98.15	107.73
1	ks	36	VAL	CA-C-N	8.40	127.05	120.33
1	ks	36	VAL	C-N-CA	8.40	127.05	120.33
1	lp	156	GLY	CA-C-O	-8.40	109.51	121.52
1	4v	143	ARG	NE-CZ-NH1	8.40	129.90	121.50
1	4S	126	VAL	N-CA-C	8.40	122.76	111.17
1	5t	121	ASN	CB-CA-C	8.40	119.50	110.17
1	5w	163	ASP	CA-CB-CG	-8.40	104.20	112.60
1	6b	55	MET	N-CA-C	8.40	120.06	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9n	133	TRP	CA-C-O	8.40	129.57	120.24
1	7z	88	ALA	CA-C-N	8.40	135.06	121.87
1	7z	88	ALA	C-N-CA	8.40	135.06	121.87
1	Z	73	ILE	CA-C-O	-8.40	112.27	121.17
1	bH	211	LEU	CA-C-N	8.40	131.54	120.28
1	bH	211	LEU	C-N-CA	8.40	131.54	120.28
1	bS	227	LYS	N-CA-C	8.40	120.44	111.28
1	dZ	229	ARG	N-CA-C	8.40	122.48	109.96
1	ei	100	ARG	CA-C-N	8.40	129.48	119.99
1	ei	100	ARG	C-N-CA	8.40	129.48	119.99
1	M	87	HIS	CB-CG-CD2	-8.40	120.28	131.20
1	V	211	LEU	CA-C-O	8.40	129.89	120.90
1	gl	110	THR	O-C-N	-8.40	113.54	123.03
1	20	150	ILE	CA-C-N	8.40	134.04	120.60
1	20	150	ILE	C-N-CA	8.40	134.04	120.60
1	5R	24	VAL	N-CA-C	8.40	118.48	110.42
1	dl	154	ARG	NE-CZ-NH1	8.40	129.90	121.50
1	e8	218	CYS	N-CA-C	8.40	122.98	111.39
1	gF	76	GLU	CA-C-O	8.40	129.62	119.97
1	gP	171	THR	N-CA-CB	8.40	122.24	110.07
1	ho	56	LEU	CA-C-N	8.40	131.35	120.44
1	ho	56	LEU	C-N-CA	8.40	131.35	120.44
1	i6	166	ASP	CA-CB-CG	8.40	121.00	112.60
1	j2	22	ALA	CA-C-N	8.40	131.53	120.28
1	j2	22	ALA	C-N-CA	8.40	131.53	120.28
1	jC	198	CYS	CA-C-N	8.40	131.88	120.54
1	jC	198	CYS	C-N-CA	8.40	131.88	120.54
1	25	55	MET	O-C-N	-8.40	113.22	122.12
1	lB	165	VAL	N-CA-CB	8.40	119.83	110.51
1	3v	72	THR	CA-C-N	8.40	131.31	120.56
1	3v	72	THR	C-N-CA	8.40	131.31	120.56
1	3F	12	HIS	CA-CB-CG	8.40	122.20	113.80
1	5q	149	SER	CA-C-N	8.40	131.97	120.46
1	5q	149	SER	C-N-CA	8.40	131.97	120.46
1	7y	63	GLN	N-CA-C	8.40	120.44	111.28
1	7K	19	THR	CA-C-N	8.40	131.36	120.44
1	7K	19	THR	C-N-CA	8.40	131.36	120.44
1	9S	56	LEU	N-CA-C	8.40	121.19	111.11
1	a8	107	THR	N-CA-C	8.40	121.37	111.71
1	bH	126	VAL	N-CA-CB	8.40	121.96	110.54
1	f6	159	GLU	O-C-N	8.40	128.45	121.31
1	fn	121	ASN	CB-CA-C	-8.40	101.86	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g1	33	SER	O-C-N	-8.40	114.07	121.71
1	3Z	83	LEU	O-C-N	-8.40	113.30	122.03
1	4e	102	SER	N-CA-C	8.40	121.56	111.82
1	66	101	GLY	CA-C-N	8.40	131.53	120.28
1	66	101	GLY	C-N-CA	8.40	131.53	120.28
1	6i	131	LYS	O-C-N	-8.40	113.42	122.07
1	8G	186	THR	N-CA-C	8.40	120.05	111.07
1	bJ	179	GLN	OE1-CD-NE2	-8.40	114.20	122.60
1	bO	33	SER	N-CA-C	-8.40	98.51	108.25
1	cU	18	ARG	O-C-N	-8.40	112.39	122.22
1	cX	201	ILE	N-CA-C	8.40	119.20	110.72
1	1l	167	ARG	NE-CZ-NH2	-8.40	111.64	119.20
1	eQ	188	THR	O-C-N	-8.40	111.09	120.58
1	2S	72	THR	N-CA-CB	8.39	122.18	110.01
1	4x	96	MET	CA-C-N	8.39	132.74	120.90
1	7J	75	GLU	CA-C-N	8.39	131.35	120.44
1	gk	66	MET	O-C-N	-8.39	113.22	122.12
1	iN	162	ARG	NE-CZ-NH1	8.39	129.89	121.50
1	4x	96	MET	C-N-CA	8.39	132.74	120.90
1	7J	75	GLU	C-N-CA	8.39	131.35	120.44
1	k	32	PHE	CA-CB-CG	-8.39	105.41	113.80
1	jH	36	VAL	CA-C-N	8.39	127.04	120.33
1	jH	36	VAL	C-N-CA	8.39	127.04	120.33
1	k0	193	ASN	CA-C-N	8.39	133.16	120.82
1	k0	193	ASN	C-N-CA	8.39	133.16	120.82
1	2Y	64	ALA	N-CA-C	8.39	120.51	111.36
1	4k	215	MET	N-CA-C	8.39	120.20	111.14
1	4Z	40	PHE	CA-CB-CG	-8.39	105.41	113.80
1	69	137	GLY	CA-C-N	8.39	131.88	120.38
1	69	137	GLY	C-N-CA	8.39	131.88	120.38
1	7S	179	GLN	CA-C-N	8.39	131.35	120.44
1	7S	179	GLN	C-N-CA	8.39	131.35	120.44
1	ba	162	ARG	CA-C-N	8.39	131.88	120.38
1	ba	162	ARG	C-N-CA	8.39	131.88	120.38
1	17	27	VAL	N-CA-C	8.39	119.18	110.62
1	1p	37	ILE	N-CA-CB	8.39	116.14	110.52
1	6N	116	GLY	CA-C-N	8.39	132.21	120.29
1	6N	116	GLY	C-N-CA	8.39	132.21	120.29
1	8R	194	ALA	CA-C-N	8.39	132.68	120.51
1	8R	194	ALA	C-N-CA	8.39	132.68	120.51
1	9c	221	VAL	N-CA-C	8.39	121.14	112.83
1	9x	40	PHE	CA-C-N	8.39	131.87	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9x	40	PHE	C-N-CA	8.39	131.87	120.54
1	aM	21	ASN	CB-CG-ND2	-8.39	103.81	116.40
1	1m	28	GLU	N-CA-C	8.39	121.26	111.02
1	1m	145	TYR	CA-C-N	8.39	131.92	120.67
1	1m	145	TYR	C-N-CA	8.39	131.92	120.67
1	ea	42	ALA	N-CA-C	8.39	120.51	111.36
1	fi	128	GLU	N-CA-C	8.39	120.43	111.28
1	F	142	VAL	N-CA-C	8.39	119.17	110.36
1	h2	141	ILE	N-CA-C	8.39	119.18	110.62
1	gS	57	ASN	CA-CB-CG	8.39	120.99	112.60
1	iH	154	ARG	CA-C-N	8.39	133.44	121.02
1	iH	154	ARG	C-N-CA	8.39	133.44	121.02
1	2b	229	ARG	NE-CZ-NH2	8.39	126.75	119.20
1	3b	198	CYS	N-CA-C	8.39	120.43	111.28
1	6s	184	TRP	CA-C-O	-8.39	112.01	120.82
1	lk	189	LEU	CA-C-N	8.39	131.87	120.54
1	lk	189	LEU	C-N-CA	8.39	131.87	120.54
1	3c	167	ARG	CA-C-N	8.39	131.35	120.44
1	3c	167	ARG	C-N-CA	8.39	131.35	120.44
1	3n	133	TRP	CA-C-N	8.39	131.13	120.56
1	3n	133	TRP	C-N-CA	8.39	131.13	120.56
1	5y	167	ARG	NE-CZ-NH1	8.39	129.89	121.50
1	9y	139	ASN	O-C-N	-8.39	113.22	122.12
1	9R	55	MET	N-CA-C	8.39	120.43	111.28
1	9U	130	TYR	N-CA-C	8.39	120.05	111.07
1	67	193	ASN	O-C-N	-8.39	112.27	122.34
1	7G	82	ARG	N-CA-C	8.39	120.05	111.07
1	7O	84	HIS	CE1-NE2-CD2	-8.39	100.61	109.00
1	8a	82	ARG	CA-C-N	8.39	131.52	120.28
1	8a	82	ARG	C-N-CA	8.39	131.52	120.28
1	ac	226	HIS	CE1-NE2-CD2	-8.39	100.61	109.00
1	ah	192	GLN	N-CA-C	8.39	120.43	111.28
1	b7	181	VAL	N-CA-C	8.39	119.19	110.72
1	cO	16	SER	CA-C-N	8.39	128.00	118.85
1	cO	16	SER	C-N-CA	8.39	128.00	118.85
1	bu	92	GLU	CA-C-O	-8.39	111.41	119.80
1	d9	12	HIS	CE1-NE2-CD2	-8.39	100.61	109.00
1	ec	176	GLN	N-CA-C	8.39	121.36	111.71
1	eN	141	ILE	CA-C-N	8.39	131.96	120.46
1	eN	141	ILE	C-N-CA	8.39	131.96	120.46
1	g5	175	GLU	N-CA-C	8.39	120.43	111.28
1	eO	21	ASN	CA-CB-CG	8.39	120.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	185	MET	CA-C-N	8.39	131.52	120.28
1	p	185	MET	C-N-CA	8.39	131.52	120.28
1	jY	76	GLU	O-C-N	-8.39	113.43	122.07
1	aP	209	ALA	CA-C-N	8.39	133.42	120.75
1	kA	24	VAL	CA-CB-CG2	8.39	124.66	110.40
1	2h	12	HIS	CA-CB-CG	8.39	122.19	113.80
1	2j	89	GLY	O-C-N	-8.39	113.38	121.77
1	2E	16	SER	CA-C-O	-8.39	112.30	119.76
1	2V	49	PRO	CA-C-N	8.39	131.86	120.54
1	2V	49	PRO	C-N-CA	8.39	131.86	120.54
1	3r	94	GLY	N-CA-C	-8.39	103.98	113.79
1	3w	178	SER	O-C-N	-8.39	113.23	122.79
1	3G	74	ASN	N-CA-C	8.39	120.42	111.28
1	aP	209	ALA	C-N-CA	8.39	133.42	120.75
1	4b	114	GLN	CA-C-N	8.39	131.95	120.46
1	4b	114	GLN	C-N-CA	8.39	131.95	120.46
1	4n	54	THR	CA-C-N	8.39	131.87	120.38
1	4n	54	THR	C-N-CA	8.39	131.87	120.38
1	5n	159	GLU	CA-C-O	-8.39	113.11	119.32
1	71	13	GLN	O-C-N	-8.39	114.67	123.56
1	8x	158	LYS	N-CA-C	8.39	123.09	113.02
1	8D	188	THR	CA-C-N	8.39	132.36	120.28
1	8D	188	THR	C-N-CA	8.39	132.36	120.28
1	94	184	TRP	N-CA-C	8.39	120.04	111.07
1	bb	24	VAL	N-CA-C	8.39	119.17	110.62
1	bb	71	GLU	N-CA-C	8.39	120.50	111.36
1	bj	165	VAL	N-CA-CB	8.39	121.95	110.54
1	cD	15	ILE	O-C-N	-8.39	113.74	122.63
1	ep	224	PRO	N-CA-CB	8.39	110.01	103.30
1	fe	219	GLN	O-C-N	-8.39	113.67	123.06
1	s	150	ILE	N-CA-C	8.39	119.18	110.62
1	i1	33	SER	O-C-N	-8.39	114.08	121.71
1	gy	51	ASP	N-CA-CB	8.38	122.17	110.01
1	if	183	ASN	CA-CB-CG	8.38	120.98	112.60
1	la	150	ILE	CA-C-N	8.39	132.62	120.38
1	la	150	ILE	C-N-CA	8.39	132.62	120.38
1	9D	126	VAL	CA-C-N	8.39	129.08	119.94
1	av	74	ASN	CA-CB-CG	-8.39	104.21	112.60
1	dM	121	ASN	CA-CB-CG	8.39	120.99	112.60
1	iO	82	ARG	NE-CZ-NH2	-8.38	111.66	119.20
1	kh	111	LEU	CA-C-N	8.38	131.51	120.28
1	kh	111	LEU	C-N-CA	8.38	131.51	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ku	75	GLU	N-CA-C	8.38	120.42	111.28
1	kv	37	ILE	N-CA-C	8.38	126.99	108.88
1	lO	84	HIS	CA-CB-CG	-8.38	105.42	113.80
1	3b	2	ILE	O-C-N	-8.38	114.20	123.26
1	48	167	ARG	NE-CZ-NH2	-8.38	111.65	119.20
1	4c	195	ASN	CA-C-N	8.38	130.32	119.84
1	4c	195	ASN	C-N-CA	8.38	130.32	119.84
1	4q	100	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	5Y	164	TYR	N-CA-C	8.38	120.42	111.28
1	69	206	GLY	O-C-N	-8.38	113.39	121.77
1	9D	126	VAL	C-N-CA	8.39	129.08	119.94
1	Q	198	CYS	O-C-N	-8.39	112.59	122.15
1	6P	15	ILE	CA-C-N	8.38	132.67	120.51
1	6P	15	ILE	C-N-CA	8.38	132.67	120.51
1	7u	230	VAL	O-C-N	-8.38	114.31	123.20
1	8y	213	GLU	O-C-N	-8.38	113.23	122.12
1	94	125	PRO	CA-C-N	8.38	131.12	120.56
1	94	125	PRO	C-N-CA	8.38	131.12	120.56
1	9q	110	THR	O-C-N	-8.38	113.60	123.41
1	aZ	33	SER	O-C-N	-8.38	112.90	121.28
1	18	166	ASP	CA-CB-CG	8.38	120.98	112.60
1	bG	12	HIS	CE1-NE2-CD2	-8.38	100.62	109.00
1	dV	177	ALA	N-CA-C	8.38	121.75	110.35
1	dX	82	ARG	NE-CZ-NH2	8.38	126.75	119.20
1	e6	115	ILE	CA-C-N	8.38	129.25	119.94
1	e6	115	ILE	C-N-CA	8.38	129.25	119.94
1	eJ	124	ILE	CA-C-O	-8.38	113.08	119.20
1	f0	89	GLY	CA-C-N	8.38	130.32	119.84
1	f0	89	GLY	C-N-CA	8.38	130.32	119.84
1	f9	195	ASN	CA-CB-CG	8.38	120.98	112.60
1	fM	156	GLY	CA-C-N	8.38	128.08	119.19
1	fM	156	GLY	C-N-CA	8.38	128.08	119.19
1	fU	140	LYS	CA-C-O	8.39	129.62	120.82
1	g4	113	GLU	CA-C-N	8.38	131.34	120.44
1	g4	113	GLU	C-N-CA	8.38	131.34	120.44
1	l	100	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	V	102	SER	CA-C-N	8.38	131.34	120.44
1	V	102	SER	C-N-CA	8.38	131.34	120.44
1	gh	191	VAL	N-CA-C	8.38	118.95	110.23
1	iv	30	LYS	O-C-N	-8.38	112.05	122.19
1	jg	153	ILE	O-C-N	-8.38	113.74	122.63
1	kp	126	VAL	CA-C-N	8.38	130.62	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	116	GLY	CA-C-O	-8.38	111.77	120.66
1	hn	154	ARG	NE-CZ-NH2	-8.38	111.66	119.20
1	j8	175	GLU	N-CA-C	8.38	122.56	110.24
1	jI	11	VAL	CB-CA-C	-8.38	101.18	111.32
1	kp	126	VAL	C-N-CA	8.38	130.62	120.14
1	2u	15	ILE	O-C-N	-8.38	114.12	122.67
1	34	21	ASN	OD1-CG-ND2	-8.38	114.22	122.60
1	48	188	THR	CA-C-N	8.38	132.19	120.29
1	48	188	THR	C-N-CA	8.38	132.19	120.29
1	4I	104	ILE	O-C-N	-8.38	113.74	121.87
1	b6	21	ASN	N-CA-C	8.38	121.35	111.71
1	eV	210	THR	CA-C-N	8.38	131.86	120.38
1	eV	210	THR	C-N-CA	8.38	131.86	120.38
1	iC	65	ALA	CA-C-N	8.38	131.51	120.28
1	iC	65	ALA	C-N-CA	8.38	131.51	120.28
1	jS	165	VAL	N-CA-C	8.38	121.56	111.09
1	le	92	GLU	CA-C-N	8.38	128.39	119.76
1	le	92	GLU	C-N-CA	8.38	128.39	119.76
1	lM	6	LEU	N-CA-C	8.38	120.42	111.28
1	4a	28	GLU	N-CA-C	8.38	120.04	111.07
1	10	132	ARG	NE-CZ-NH2	-8.38	111.66	119.20
1	5O	87	HIS	N-CA-C	8.38	122.59	110.10
1	5T	99	PRO	O-C-N	-8.38	112.89	123.03
1	8u	161	PHE	CA-C-N	8.38	131.34	120.44
1	8u	161	PHE	C-N-CA	8.38	131.34	120.44
1	cc	224	PRO	CA-C-N	8.38	129.24	119.94
1	dL	219	GLN	OE1-CD-NE2	-8.38	114.22	122.60
1	9n	182	LYS	N-CA-C	8.38	120.42	111.28
1	10	97	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	b4	195	ASN	CB-CA-C	8.38	125.01	109.51
1	bl	188	THR	N-CA-C	8.38	120.04	111.07
1	cc	224	PRO	C-N-CA	8.38	129.24	119.94
1	cF	158	LYS	CA-C-N	8.38	132.05	120.65
1	cF	158	LYS	C-N-CA	8.38	132.05	120.65
1	d0	61	GLY	O-C-N	-8.38	116.30	123.59
1	d3	63	GLN	N-CA-C	8.38	121.35	111.71
1	1j	66	MET	N-CA-C	8.38	120.42	111.28
1	eN	87	HIS	CA-C-N	8.38	133.03	121.05
1	eN	87	HIS	C-N-CA	8.38	133.03	121.05
1	ft	143	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	fF	117	TRP	N-CA-C	8.38	121.35	111.71
1	g1	33	SER	CA-C-N	8.38	128.11	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g1	33	SER	C-N-CA	8.38	128.11	119.56
1	o	142	VAL	CA-C-O	8.38	130.05	121.17
1	N	219	GLN	CG-CD-NE2	8.38	128.97	116.40
1	gJ	140	LYS	O-C-N	-8.38	113.24	122.12
1	gO	173	ARG	CA-C-N	8.38	131.85	120.54
1	gO	173	ARG	C-N-CA	8.38	131.85	120.54
1	lN	75	GLU	N-CA-C	8.38	120.41	111.28
1	hF	124	ILE	N-CA-C	-8.38	98.64	107.60
1	hJ	143	ARG	N-CA-C	8.38	120.03	111.07
1	jz	31	ALA	N-CA-C	8.38	122.60	112.38
1	2d	136	LEU	O-C-N	-8.38	113.38	122.09
1	2z	192	GLN	N-CA-C	8.38	120.41	111.28
1	3h	17	PRO	CA-C-N	8.38	131.33	120.44
1	3h	17	PRO	C-N-CA	8.38	131.33	120.44
1	5d	144	MET	N-CA-C	8.38	120.03	111.07
1	6f	155	GLN	OE1-CD-NE2	-8.38	114.22	122.60
1	6j	173	ARG	NE-CZ-NH2	-8.38	111.66	119.20
1	6I	170	LYS	N-CA-C	8.38	120.41	111.28
1	7j	48	THR	O-C-N	-8.38	112.14	121.53
1	7n	51	ASP	CA-CB-CG	8.38	120.98	112.60
1	82	164	TYR	CA-C-N	8.38	131.12	120.56
1	82	164	TYR	C-N-CA	8.38	131.12	120.56
1	ak	178	SER	O-C-N	-8.38	112.79	122.68
1	e1	134	ILE	CA-C-N	8.38	131.41	120.60
1	e9	34	PRO	N-CA-CB	8.38	111.29	103.41
1	8x	70	LYS	N-CA-C	8.38	120.19	111.14
1	8E	27	VAL	N-CA-C	8.38	120.17	110.62
1	cG	190	LEU	CA-C-N	8.38	131.94	120.46
1	cG	190	LEU	C-N-CA	8.38	131.94	120.46
1	e1	134	ILE	C-N-CA	8.38	131.41	120.60
1	j	167	ARG	CA-C-N	8.38	131.33	120.44
1	j	167	ARG	C-N-CA	8.38	131.33	120.44
1	Y	54	THR	CA-C-O	8.38	129.43	120.55
1	aE	92	GLU	CA-C-N	8.38	128.44	119.90
1	aE	92	GLU	C-N-CA	8.38	128.44	119.90
1	b8	223	GLY	CA-C-N	8.38	130.31	119.84
1	b8	223	GLY	C-N-CA	8.38	130.31	119.84
1	by	55	MET	N-CA-C	8.38	120.03	111.07
1	ch	135	ILE	CA-C-N	8.38	131.50	120.28
1	ch	135	ILE	C-N-CA	8.38	131.50	120.28
1	f1	65	ALA	N-CA-CB	-8.38	97.76	110.16
1	hK	21	ASN	CA-C-N	8.38	131.71	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	100	ARG	N-CA-CB	8.37	123.18	110.45
1	gE	59	VAL	N-CA-C	8.38	118.46	110.42
1	hd	134	ILE	N-CA-C	8.38	118.46	110.42
1	hD	173	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	hK	21	ASN	C-N-CA	8.38	131.71	120.65
1	hK	175	GLU	N-CA-CB	8.37	122.47	109.83
1	iO	8	GLY	N-CA-C	8.38	119.92	111.21
1	1T	97	ARG	NE-CZ-NH2	8.38	126.74	119.20
1	1X	116	GLY	CA-C-N	8.37	131.33	120.44
1	1X	116	GLY	C-N-CA	8.37	131.33	120.44
1	k9	83	LEU	N-CA-C	8.37	120.18	111.14
1	kN	89	GLY	CA-C-N	8.38	128.89	119.93
1	kN	89	GLY	C-N-CA	8.38	128.89	119.93
1	kV	191	VAL	N-CA-C	8.38	119.36	111.91
1	lL	89	GLY	O-C-N	-8.38	113.39	121.77
1	40	43	LEU	N-CA-C	8.38	120.49	111.36
1	4z	89	GLY	CA-C-N	8.38	128.44	119.90
1	4z	89	GLY	C-N-CA	8.38	128.44	119.90
1	co	82	ARG	NE-CZ-NH1	8.38	129.88	121.50
1	2v	32	PHE	CA-CB-CG	-8.37	105.43	113.80
1	4G	74	ASN	N-CA-C	8.38	121.16	111.11
1	cL	32	PHE	CA-CB-CG	-8.38	105.42	113.80
1	5M	173	ARG	NE-CZ-NH2	-8.37	111.66	119.20
1	6l	165	VAL	N-CA-CB	8.37	119.81	110.51
1	6v	42	ALA	N-CA-C	8.38	121.54	111.82
1	b4	17	PRO	N-CA-CB	8.38	112.05	103.25
1	1l	146	SER	CB-CA-C	-8.38	105.25	111.20
1	6D	33	SER	O-C-N	-8.37	112.11	121.66
1	7q	159	GLU	CA-C-O	-8.37	111.30	119.51
1	7W	76	GLU	N-CA-C	8.37	120.41	111.28
1	8f	78	ALA	O-C-N	-8.37	113.05	122.09
1	8H	159	GLU	CA-C-N	8.37	128.43	119.89
1	8H	159	GLU	C-N-CA	8.37	128.43	119.89
1	9B	93	PRO	N-CA-CB	-8.37	94.46	103.25
1	ds	162	ARG	NE-CZ-NH1	8.37	129.87	121.50
1	dw	36	VAL	O-C-N	-8.37	113.75	121.87
1	dA	121	ASN	CA-C-N	8.37	129.01	120.38
1	dA	121	ASN	C-N-CA	8.37	129.01	120.38
1	k	201	ILE	N-CA-CB	8.38	120.35	110.55
1	m	56	LEU	CA-C-N	8.37	132.18	120.29
1	m	56	LEU	C-N-CA	8.37	132.18	120.29
1	B	195	ASN	CA-CB-CG	8.38	120.97	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lA	132	ARG	NE-CZ-NH2	-8.37	111.67	119.20
1	4w	224	PRO	N-CA-CB	-8.37	95.83	102.36
1	2L	54	THR	N-CA-C	8.37	120.41	111.28
1	49	189	LEU	N-CA-C	8.37	120.18	111.14
1	4z	79	GLU	CA-C-N	8.37	132.43	120.79
1	4z	79	GLU	C-N-CA	8.37	132.43	120.79
1	4T	177	ALA	N-CA-C	8.37	122.07	110.35
1	4Y	12	HIS	CA-C-N	8.37	135.95	122.81
1	4Y	12	HIS	C-N-CA	8.37	135.95	122.81
1	5r	92	GLU	N-CA-C	8.37	124.82	113.77
1	7n	188	THR	CA-C-N	8.37	131.85	120.38
1	7n	188	THR	C-N-CA	8.37	131.85	120.38
1	7y	27	VAL	N-CA-C	8.37	119.16	110.62
1	87	100	ARG	NE-CZ-NH2	-8.37	111.66	119.20
1	af	95	GLN	O-C-N	-8.37	113.13	122.84
1	8F	35	GLU	CA-C-N	8.37	131.40	120.60
1	8F	35	GLU	C-N-CA	8.37	131.40	120.60
1	9j	96	MET	O-C-N	8.37	131.69	122.15
1	9H	36	VAL	CA-C-N	8.37	127.03	120.33
1	9H	36	VAL	C-N-CA	8.37	127.03	120.33
1	9L	155	GLN	N-CA-C	8.37	122.37	110.23
1	aR	72	THR	O-C-N	-8.37	113.25	122.12
1	di	173	ARG	N-CA-C	8.37	121.46	111.33
1	dW	62	HIS	CA-C-N	8.37	131.50	120.28
1	dW	62	HIS	C-N-CA	8.37	131.50	120.28
1	eH	125	PRO	N-CA-CB	-8.37	97.26	102.79
1	fe	67	GLN	N-CA-C	8.37	120.41	111.28
1	f9	117	TRP	N-CA-C	8.37	120.40	111.28
1	g	146	SER	CA-C-N	8.37	127.98	118.85
1	g	146	SER	C-N-CA	8.37	127.98	118.85
1	ik	124	ILE	CA-C-O	-8.37	114.21	119.15
1	iy	72	THR	CA-C-O	8.37	129.42	120.55
1	ha	179	GLN	OE1-CD-NE2	-8.37	114.23	122.60
1	iB	53	ASN	CA-CB-CG	-8.37	104.23	112.60
1	j8	33	SER	N-CA-C	-8.37	100.69	108.22
1	ji	177	ALA	CA-C-N	8.37	134.08	120.94
1	ji	177	ALA	C-N-CA	8.37	134.08	120.94
1	jQ	39	MET	O-C-N	-8.37	113.25	122.12
1	ku	84	HIS	CB-CG-CD2	-8.37	120.32	131.20
1	li	162	ARG	NE-CZ-NH2	8.37	126.73	119.20
1	2D	141	ILE	N-CA-C	8.37	118.46	110.42
1	60	77	ALA	N-CA-C	8.37	120.40	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7H	161	PHE	CA-CB-CG	-8.37	105.43	113.80
1	8n	124	ILE	N-CA-C	8.37	115.84	107.55
1	ev	166	ASP	CA-CB-CG	8.37	120.97	112.60
1	2c	5	ASN	OD1-CG-ND2	-8.37	114.23	122.60
1	3f	169	TYR	N-CA-C	8.37	120.48	111.36
1	3j	148	THR	N-CA-C	8.37	122.36	110.23
1	6p	53	ASN	CA-CB-CG	-8.37	104.23	112.60
1	6q	136	LEU	CA-C-N	8.37	129.45	119.99
1	6q	136	LEU	C-N-CA	8.37	129.45	119.99
1	6K	50	GLN	CA-C-N	8.37	131.32	120.44
1	6K	50	GLN	C-N-CA	8.37	131.32	120.44
1	7U	144	MET	N-CA-C	8.37	120.48	111.36
1	8I	229	ARG	N-CA-C	8.37	122.07	110.35
1	b9	181	VAL	CB-CA-C	-8.37	100.67	112.22
1	bo	49	PRO	CA-C-N	8.37	131.50	120.28
1	bz	115	ILE	CA-C-N	8.37	129.45	119.99
1	fy	7	GLN	N-CA-C	8.37	121.73	110.35
1	4V	27	VAL	N-CA-C	8.37	119.16	110.62
1	5I	217	ALA	N-CA-C	8.37	121.12	110.33
1	8U	62	HIS	ND1-CG-CD2	8.37	114.47	106.10
1	8V	157	PRO	CA-C-N	8.37	132.40	122.44
1	8V	157	PRO	C-N-CA	8.37	132.40	122.44
1	9l	162	ARG	NH1-CZ-NH2	-8.37	108.42	119.30
1	a4	147	PRO	N-CA-CB	8.37	110.72	103.19
1	bo	49	PRO	C-N-CA	8.37	131.50	120.28
1	bz	115	ILE	C-N-CA	8.37	129.45	119.99
1	dP	197	ASP	CA-CB-CG	-8.37	104.23	112.60
1	es	215	MET	N-CA-C	8.37	120.40	111.28
1	eB	190	LEU	CA-C-O	-8.37	112.03	120.82
1	fX	23	TRP	N-CA-C	8.37	121.15	111.11
1	g2	23	TRP	CB-CG-CD1	8.37	139.46	126.90
1	aj	226	HIS	ND1-CE1-NE2	8.37	116.77	108.40
1	z	22	ALA	CA-C-N	8.37	131.49	120.28
1	z	22	ALA	C-N-CA	8.37	131.49	120.28
1	I	103	ASP	CA-C-N	8.37	132.33	120.53
1	I	103	ASP	C-N-CA	8.37	132.33	120.53
1	X	18	ARG	NE-CZ-NH1	8.37	129.87	121.50
1	hM	178	SER	CA-C-N	8.37	131.49	120.28
1	hM	178	SER	C-N-CA	8.37	131.49	120.28
1	ib	4	GLN	OE1-CD-NE2	-8.37	114.23	122.60
1	ic	82	ARG	CA-C-N	8.37	132.17	120.29
1	ic	82	ARG	C-N-CA	8.37	132.17	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	io	78	ALA	CA-C-N	8.37	133.03	120.31
1	io	78	ALA	C-N-CA	8.37	133.03	120.31
1	iC	154	ARG	NE-CZ-NH2	-8.37	111.67	119.20
1	iS	12	HIS	N-CA-C	8.37	121.89	109.59
1	kA	16	SER	CA-C-O	8.37	129.25	120.63
1	2m	172	LEU	O-C-N	-8.37	113.39	122.09
1	iW	33	SER	O-C-N	-8.36	113.28	121.56
1	jU	11	VAL	N-CA-CB	8.36	120.32	110.95
1	k3	192	GLN	N-CA-C	8.37	121.15	111.11
1	5d	2	ILE	CA-C-O	-8.37	111.61	120.48
1	5e	156	GLY	O-C-N	-8.37	113.40	121.77
1	5X	212	GLU	N-CA-C	8.37	120.02	111.07
1	a7	62	HIS	N-CA-C	8.37	123.23	111.52
1	cp	21	ASN	CA-C-N	8.37	131.69	120.65
1	cp	21	ASN	C-N-CA	8.37	131.69	120.65
1	eV	166	ASP	CA-CB-CG	8.37	120.97	112.60
1	fH	183	ASN	CA-CB-CG	-8.37	104.23	112.60
1	6G	138	LEU	N-CA-C	8.36	121.33	111.71
1	7m	82	ARG	N-CA-C	8.36	120.02	111.07
1	aD	70	LYS	CA-C-N	8.36	131.31	120.44
1	aD	70	LYS	C-N-CA	8.36	131.31	120.44
1	aW	4	GLN	OE1-CD-NE2	-8.36	114.24	122.60
1	bi	167	ARG	NE-CZ-NH2	8.36	126.73	119.20
1	1e	138	LEU	CA-C-N	8.36	131.83	120.54
1	1e	138	LEU	C-N-CA	8.36	131.83	120.54
1	gq	173	ARG	O-C-N	-8.36	110.92	122.46
1	jU	107	THR	N-CA-C	-8.36	103.21	113.50
1	kY	183	ASN	O-C-N	-8.36	112.62	122.15
1	cr	22	ALA	CA-C-N	8.36	131.83	120.54
1	lj	138	LEU	N-CA-C	8.36	120.39	111.28
1	2x	87	HIS	CA-C-N	8.36	133.77	121.31
1	2x	87	HIS	C-N-CA	8.36	133.77	121.31
1	2I	59	VAL	CA-C-O	8.36	129.65	120.95
1	4h	194	ALA	N-CA-C	8.36	122.06	110.35
1	83	186	THR	N-CA-C	8.36	121.14	111.11
1	8r	126	VAL	N-CA-C	8.36	119.15	110.62
1	9B	64	ALA	N-CA-C	8.36	120.39	111.28
1	bH	115	ILE	CA-C-N	8.36	129.26	119.98
1	bH	115	ILE	C-N-CA	8.36	129.26	119.98
1	cr	22	ALA	C-N-CA	8.36	131.83	120.54
1	b4	82	ARG	NE-CZ-NH1	8.36	129.86	121.50
1	dB	74	ASN	CA-C-N	8.36	131.49	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dB	74	ASN	C-N-CA	8.36	131.49	120.28
1	1B	183	ASN	CA-CB-CG	8.36	120.96	112.60
1	f8	37	ILE	O-C-N	-8.36	111.57	121.10
1	fj	132	ARG	N-CA-C	8.36	120.39	111.28
1	H	200	THR	O-C-N	-8.36	113.26	122.12
1	h2	146	SER	O-C-N	-8.36	112.92	121.28
1	hD	84	HIS	CA-C-N	8.36	130.29	119.84
1	hD	84	HIS	C-N-CA	8.36	130.29	119.84
1	hE	140	LYS	N-CA-C	8.36	120.02	111.07
1	il	100	ARG	CA-C-N	8.36	129.44	119.99
1	il	100	ARG	C-N-CA	8.36	129.44	119.99
1	iV	48	THR	CA-C-N	8.36	127.93	119.24
1	cS	13	GLN	CA-C-O	8.36	129.73	120.70
1	gG	161	PHE	CA-C-N	8.36	131.82	120.54
1	gG	161	PHE	C-N-CA	8.36	131.82	120.54
1	iE	89	GLY	CA-C-N	8.36	128.43	119.90
1	iE	89	GLY	C-N-CA	8.36	128.43	119.90
1	iK	195	ASN	CA-CB-CG	8.36	120.96	112.60
1	iV	48	THR	C-N-CA	8.36	127.93	119.24
1	jh	201	ILE	CA-C-N	8.36	132.16	120.29
1	jh	201	ILE	C-N-CA	8.36	132.16	120.29
1	30	28	GLU	O-C-N	-8.36	113.46	122.07
1	W	229	ARG	NE-CZ-NH1	8.36	129.86	121.50
1	iM	67	GLN	OE1-CD-NE2	-8.36	114.24	122.60
1	ky	97	ARG	NE-CZ-NH2	-8.36	111.68	119.20
1	lj	116	GLY	N-CA-C	8.36	122.19	112.50
1	2g	22	ALA	CA-C-O	-8.36	112.04	120.82
1	3o	37	ILE	O-C-N	-8.36	114.14	120.07
1	3v	66	MET	CA-C-N	8.36	131.48	120.28
1	3v	66	MET	C-N-CA	8.36	131.48	120.28
1	4i	201	ILE	CA-C-N	8.36	132.58	120.38
1	4i	201	ILE	C-N-CA	8.36	132.58	120.38
1	51	16	SER	CA-C-N	8.36	128.00	119.56
1	51	16	SER	C-N-CA	8.36	128.00	119.56
1	5G	53	ASN	CA-C-O	8.36	129.84	120.90
1	6F	162	ARG	NE-CZ-NH1	8.36	129.86	121.50
1	7c	37	ILE	O-C-N	-8.36	114.14	120.07
1	7q	168	PHE	N-CA-C	8.36	120.01	111.07
1	7R	104	ILE	CA-C-O	8.36	129.65	120.95
1	8f	165	VAL	CA-C-O	8.36	130.03	121.17
1	8g	51	ASP	CA-C-O	8.36	129.41	120.55
1	9V	171	THR	CA-C-N	8.36	131.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9V	171	THR	C-N-CA	8.36	131.48	120.28
1	aJ	230	VAL	N-CA-C	-8.36	105.03	113.47
1	dw	115	ILE	CA-C-N	8.36	129.22	119.94
1	9L	64	ALA	CA-C-N	8.36	131.48	120.28
1	9L	64	ALA	C-N-CA	8.36	131.48	120.28
1	aL	173	ARG	NE-CZ-NH2	8.36	126.72	119.20
1	dw	115	ILE	C-N-CA	8.36	129.22	119.94
1	c8	68	MET	CA-C-O	8.36	129.41	120.55
1	1u	56	LEU	N-CA-C	8.36	120.02	111.07
1	ha	99	PRO	N-CA-CB	8.36	110.79	103.27
1	iH	113	GLU	N-CA-C	8.36	121.32	111.71
1	jY	22	ALA	CA-C-N	8.36	131.31	120.44
1	jY	22	ALA	C-N-CA	8.36	131.31	120.44
1	jI	104	ILE	O-C-N	-8.36	113.77	121.87
1	kF	177	ALA	N-CA-C	8.36	128.60	110.80
1	3o	18	ARG	O-C-N	-8.36	113.26	122.12
1	5F	25	LYS	N-CA-C	8.36	121.14	111.11
1	7A	130	TYR	CA-C-N	8.36	131.30	120.44
1	8z	124	ILE	CA-C-N	8.36	130.29	119.84
1	kK	126	VAL	N-CA-C	8.36	121.53	111.09
1	4d	14	ALA	N-CA-C	8.36	121.10	110.24
1	6Z	82	ARG	NE-CZ-NH1	8.36	129.86	121.50
1	7A	130	TYR	C-N-CA	8.36	131.30	120.44
1	8z	124	ILE	C-N-CA	8.36	130.29	119.84
1	8R	20	LEU	CA-C-O	-8.36	112.09	120.70
1	11	174	ALA	N-CA-C	8.36	120.39	111.28
1	de	163	ASP	N-CA-C	8.36	120.01	111.07
1	T	225	GLY	CA-C-N	8.36	133.39	121.02
1	80	72	THR	CA-C-N	8.36	131.09	120.56
1	80	72	THR	C-N-CA	8.36	131.09	120.56
1	9R	124	ILE	CA-C-O	-8.36	113.10	119.20
1	9Z	140	LYS	CA-C-N	8.36	131.09	120.56
1	9Z	140	LYS	C-N-CA	8.36	131.09	120.56
1	bH	229	ARG	O-C-N	-8.36	112.53	122.81
1	ch	185	MET	CA-C-N	8.36	131.30	120.44
1	ch	185	MET	C-N-CA	8.36	131.30	120.44
1	db	42	ALA	N-CA-C	8.36	120.39	111.28
1	1p	143	ARG	NE-CZ-NH2	8.36	126.72	119.20
1	1p	144	MET	N-CA-C	8.36	120.39	111.28
1	eE	125	PRO	CA-C-N	8.36	131.91	120.46
1	eE	125	PRO	C-N-CA	8.36	131.91	120.46
1	T	225	GLY	C-N-CA	8.36	133.39	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fY	65	ALA	CA-C-O	-8.36	111.69	120.55
1	hW	55	MET	N-CA-C	8.35	121.13	111.11
1	1N	54	THR	CA-C-N	8.35	131.68	120.65
1	1N	54	THR	C-N-CA	8.35	131.68	120.65
1	jn	62	HIS	ND1-CG-CD2	8.35	114.45	106.10
1	jX	101	GLY	O-C-N	-8.35	114.17	122.19
1	ky	182	LYS	N-CA-C	8.35	120.39	111.28
1	l4	159	GLU	CA-C-N	8.35	128.42	119.90
1	l4	159	GLU	C-N-CA	8.35	128.42	119.90
1	l7	57	ASN	CA-CB-CG	-8.35	104.25	112.60
1	3C	211	LEU	CA-C-O	8.35	129.41	120.55
1	4l	52	LEU	N-CA-C	8.35	121.32	111.71
1	72	82	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	7k	219	GLN	N-CA-C	8.35	121.87	109.59
1	ay	69	LEU	N-CA-C	8.35	120.39	111.28
1	cC	61	GLY	CA-C-N	8.35	134.68	122.82
1	hl	191	VAL	CA-C-N	8.35	131.47	120.28
1	hl	191	VAL	C-N-CA	8.35	131.47	120.28
1	iz	33	SER	CA-C-N	8.35	129.16	119.47
1	iz	33	SER	C-N-CA	8.35	129.16	119.47
1	k8	144	MET	N-CA-C	8.35	120.46	111.36
1	l4	23	TRP	N-CA-C	8.35	120.38	111.28
1	27	97	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	2v	229	ARG	CA-C-O	-8.35	110.58	120.60
1	2J	32	PHE	CA-CB-CG	-8.35	105.45	113.80
1	3U	154	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	4y	139	ASN	CA-CB-CG	-8.35	104.25	112.60
1	cC	61	GLY	C-N-CA	8.35	134.68	122.82
1	5o	16	SER	CB-CA-C	8.35	119.32	109.47
1	90	154	ARG	NE-CZ-NH2	-8.35	111.68	119.20
1	bB	64	ALA	O-C-N	8.35	130.67	122.07
1	dk	110	THR	N-CA-C	8.35	121.37	110.43
1	ec	21	ASN	CA-C-N	8.35	132.31	120.28
1	ec	21	ASN	C-N-CA	8.35	132.31	120.28
1	en	18	ARG	NE-CZ-NH2	-8.35	111.68	119.20
1	ed	80	TRP	CA-C-O	8.35	129.65	120.63
1	f2	189	LEU	N-CA-C	8.35	120.38	111.28
1	ft	168	PHE	CA-CB-CG	8.35	122.15	113.80
1	U	18	ARG	NE-CZ-NH2	-8.35	111.68	119.20
1	gb	66	MET	N-CA-C	8.35	120.38	111.28
1	gh	119	THR	N-CA-C	8.35	123.04	113.02
1	gA	28	GLU	N-CA-C	8.35	121.13	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1E	19	THR	N-CA-C	8.35	120.00	111.07
1	h2	195	ASN	O-C-N	-8.35	112.75	121.60
1	hT	226	HIS	CB-CG-CD2	-8.35	120.35	131.20
1	l7	146	SER	N-CA-C	8.35	119.20	109.60
1	fm	62	HIS	ND1-CG-CD2	8.35	114.45	106.10
1	fV	195	ASN	CA-CB-CG	8.35	120.95	112.60
1	ib	41	SER	CA-C-N	8.35	132.30	120.28
1	ib	41	SER	C-N-CA	8.35	132.30	120.28
1	iL	229	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	iZ	92	GLU	O-C-N	-8.35	113.05	120.48
1	jw	135	ILE	O-C-N	-8.35	113.77	121.87
1	lt	195	ASN	CA-CB-CG	8.35	120.95	112.60
1	4m	105	ALA	CA-C-O	8.35	129.66	119.31
1	4W	120	HIS	CA-C-O	-8.35	112.47	121.99
1	82	20	LEU	N-CA-C	8.35	120.38	111.28
1	aW	126	VAL	N-CA-C	8.35	120.14	110.62
1	B	72	THR	N-CA-CB	8.35	122.38	109.94
1	T	73	ILE	O-C-N	-8.35	113.73	121.91
1	am	100	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	aY	173	ARG	NE-CZ-NH1	8.35	129.85	121.50
1	b5	23	TRP	CA-C-N	8.35	131.90	120.46
1	b5	23	TRP	C-N-CA	8.35	131.90	120.46
1	c3	226	HIS	CG-CD2-NE2	8.35	115.55	107.20
1	fe	221	VAL	CA-C-O	8.35	129.56	119.54
1	1x	104	ILE	O-C-N	-8.35	113.44	121.87
1	gU	24	VAL	CA-C-N	8.35	131.29	120.44
1	gU	24	VAL	C-N-CA	8.35	131.29	120.44
1	i5	74	ASN	O-C-N	-8.35	113.08	122.09
1	ig	146	SER	CA-C-O	-8.35	110.95	118.63
1	ir	78	ALA	CA-C-N	8.35	131.47	120.28
1	ir	78	ALA	C-N-CA	8.35	131.47	120.28
1	jR	68	MET	O-C-N	-8.35	113.27	122.12
1	3l	155	GLN	CA-C-O	8.35	130.21	120.69
1	5W	12	HIS	CA-CB-CG	-8.35	105.45	113.80
1	b0	32	PHE	CA-C-O	8.35	128.83	120.32
1	dG	154	ARG	CA-C-O	-8.35	112.30	121.23
1	1V	80	TRP	N-CA-C	8.35	120.38	111.28
1	lz	135	ILE	O-C-N	-8.35	113.77	121.87
1	31	5	ASN	CA-CB-CG	-8.35	104.25	112.60
1	5Y	179	GLN	CA-C-N	8.35	131.29	120.44
1	5Y	179	GLN	C-N-CA	8.35	131.29	120.44
1	71	75	GLU	N-CA-C	8.35	120.38	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	40	PHE	N-CA-C	8.35	120.38	111.28
1	8X	34	PRO	CA-C-N	8.35	132.30	120.28
1	8X	34	PRO	C-N-CA	8.35	132.30	120.28
1	af	103	ASP	CA-C-N	8.35	131.89	120.46
1	af	103	ASP	C-N-CA	8.35	131.89	120.46
1	bs	148	THR	N-CA-C	-8.35	103.23	113.41
1	cY	213	GLU	CA-C-N	8.35	131.29	120.44
1	cY	213	GLU	C-N-CA	8.35	131.29	120.44
1	eN	135	ILE	N-CA-C	8.35	120.13	110.62
1	f9	111	LEU	CA-C-N	8.35	131.46	120.28
1	f9	111	LEU	C-N-CA	8.35	131.46	120.28
1	d	164	TYR	N-CA-C	8.35	120.00	111.07
1	2	37	ILE	O-C-N	-8.35	115.08	120.42
1	W	15	ILE	N-CA-C	8.35	120.64	109.37
1	jh	22	ALA	O-C-N	-8.34	113.28	122.12
1	jP	150	ILE	CA-C-O	8.34	130.20	119.85
1	9j	62	HIS	ND1-CE1-NE2	8.34	116.74	108.40
1	o	227	LYS	N-CA-C	8.34	121.70	110.35
1	gX	28	GLU	CA-C-N	8.34	131.81	120.38
1	gX	28	GLU	C-N-CA	8.34	131.81	120.38
1	iC	150	ILE	O-C-N	-8.34	113.47	121.90
1	iG	62	HIS	CA-C-N	8.34	131.29	120.44
1	iG	62	HIS	C-N-CA	8.34	131.29	120.44
1	iR	105	ALA	N-CA-C	8.34	122.43	111.75
1	kg	124	ILE	CA-C-O	-8.34	112.91	119.25
1	l8	34	PRO	CA-C-N	8.34	132.29	120.28
1	l8	34	PRO	C-N-CA	8.34	132.29	120.28
1	27	60	GLY	CA-C-N	8.34	129.90	122.47
1	27	60	GLY	C-N-CA	8.34	129.90	122.47
1	ll	47	ALA	CA-C-O	8.34	130.37	121.19
1	11	101	GLY	O-C-N	-8.34	114.18	122.19
1	cj	174	ALA	CA-C-N	8.34	132.72	120.87
1	lo	204	ALA	CA-C-N	8.34	131.46	120.28
1	lo	204	ALA	C-N-CA	8.34	131.46	120.28
1	lG	106	GLY	N-CA-C	-8.34	103.12	115.72
1	2l	29	GLU	N-CA-C	8.34	120.45	111.36
1	2V	180	GLU	O-C-N	-8.34	113.28	122.12
1	7H	63	GLN	N-CA-C	8.34	120.38	111.28
1	3g	132	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	3G	40	PHE	CA-CB-CG	-8.34	105.46	113.80
1	ac	140	LYS	CA-C-N	8.34	131.07	120.56
1	bU	37	ILE	O-C-N	-8.34	115.08	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	174	ALA	C-N-CA	8.34	132.72	120.87
1	cB	7	GLN	N-CA-C	-8.34	101.17	112.94
1	4V	209	ALA	N-CA-C	8.34	121.08	110.24
1	67	27	VAL	O-C-N	-8.34	113.72	121.89
1	73	117	TRP	N-CA-C	8.34	121.12	111.11
1	ac	140	LYS	C-N-CA	8.34	131.07	120.56
1	eg	182	LYS	N-CA-CB	8.34	122.11	110.01
1	7k	62	HIS	ND1-CG-CD2	8.34	114.44	106.10
1	7E	132	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	8j	192	GLN	OE1-CD-NE2	-8.34	114.26	122.60
1	9N	143	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	aW	100	ARG	CA-C-N	8.34	129.24	119.98
1	aW	100	ARG	C-N-CA	8.34	129.24	119.98
1	cz	5	ASN	CA-CB-CG	8.34	120.94	112.60
1	fl	89	GLY	O-C-N	8.34	130.11	121.77
1	fE	95	GLN	OE1-CD-NE2	-8.34	114.26	122.60
1	o	211	LEU	N-CA-C	8.34	120.37	111.28
1	F	42	ALA	N-CA-C	8.34	120.37	111.28
1	73	67	GLN	N-CA-C	8.34	120.45	111.36
1	gf	43	LEU	CA-C-O	-8.34	111.71	120.55
1	hT	187	GLU	N-CA-C	8.34	120.45	111.36
1	ia	74	ASN	OD1-CG-ND2	-8.34	114.26	122.60
1	ic	143	ARG	CA-C-N	8.34	131.81	120.38
1	ic	143	ARG	C-N-CA	8.34	131.81	120.38
1	k4	160	PRO	N-CA-C	8.34	124.91	113.65
1	iO	223	GLY	CA-C-N	8.34	130.26	119.84
1	iO	223	GLY	C-N-CA	8.34	130.26	119.84
1	j5	57	ASN	CA-CB-CG	-8.34	104.26	112.60
1	1W	125	PRO	CA-C-N	8.34	131.36	120.60
1	1W	125	PRO	C-N-CA	8.34	131.36	120.60
1	5O	195	ASN	CA-CB-CG	8.34	120.94	112.60
1	jK	204	ALA	N-CA-C	8.34	120.37	111.28
1	kv	229	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	kx	72	THR	O-C-N	-8.34	113.28	122.12
1	l8	42	ALA	O-C-N	-8.34	113.48	122.07
1	2t	73	ILE	CA-CB-CG1	8.34	124.58	110.40
1	41	74	ASN	CA-CB-CG	-8.34	104.26	112.60
1	4Z	135	ILE	CA-C-N	8.34	131.46	120.28
1	4Z	135	ILE	C-N-CA	8.34	131.46	120.28
1	5g	76	GLU	O-C-N	-8.34	112.64	122.15
1	5Q	97	ARG	NH1-CZ-NH2	-8.34	108.46	119.30
1	5T	139	ASN	OD1-CG-ND2	-8.34	114.26	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8r	229	ARG	NE-CZ-NH2	-8.34	111.69	119.20
1	ax	191	VAL	O-C-N	-8.34	113.83	122.25
1	aC	219	GLN	N-CA-CB	-8.34	98.38	110.56
1	aZ	154	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	er	128	GLU	CA-C-N	8.34	131.07	120.56
1	69	91	ILE	N-CA-C	8.34	119.13	110.62
1	7i	144	MET	O-C-N	-8.34	113.28	122.12
1	7D	18	ARG	NH1-CZ-NH2	-8.34	108.46	119.30
1	bs	68	MET	N-CA-C	8.34	120.37	111.28
1	bY	188	THR	CA-C-N	8.34	131.80	120.54
1	bY	188	THR	C-N-CA	8.34	131.80	120.54
1	1j	10	MET	CG-SD-CE	-8.34	82.56	100.90
1	dl	158	LYS	CA-C-O	8.34	128.06	118.55
1	er	128	GLU	C-N-CA	8.34	131.07	120.56
1	fR	87	HIS	CA-CB-CG	8.34	122.14	113.80
1	w	205	LEU	N-CA-C	8.34	122.03	110.35
1	jQ	167	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	k1	199	LYS	CA-C-N	8.34	131.45	120.28
1	ln	117	TRP	N-CA-C	8.34	119.99	111.07
1	3C	131	LYS	N-CA-C	8.34	121.30	111.71
1	7r	182	LYS	N-CA-C	8.34	119.99	111.07
1	7K	26	VAL	N-CA-C	8.34	119.11	110.36
1	8i	33	SER	O-C-N	-8.34	116.01	121.85
1	ha	168	PHE	O-C-N	-8.34	113.48	122.07
1	hn	50	GLN	OE1-CD-NE2	-8.34	114.26	122.60
1	k1	199	LYS	C-N-CA	8.34	131.45	120.28
1	lw	90	PRO	O-C-N	8.34	132.07	122.98
1	3F	162	ARG	NE-CZ-NH1	8.34	129.84	121.50
1	5m	81	ASP	O-C-N	-8.34	112.64	122.15
1	5W	195	ASN	CA-CB-CG	8.34	120.94	112.60
1	8k	200	THR	N-CA-C	8.34	120.37	111.28
1	8y	168	PHE	CA-CB-CG	8.34	122.14	113.80
1	bU	68	MET	O-C-N	-8.34	113.28	122.12
1	dM	125	PRO	CA-C-N	8.34	131.07	120.56
1	dM	125	PRO	C-N-CA	8.34	131.07	120.56
1	f1	134	ILE	O-C-N	-8.34	113.74	121.91
1	fg	70	LYS	N-CA-C	8.34	119.99	111.07
1	N	134	ILE	O-C-N	-8.34	113.74	121.91
1	kw	142	VAL	CA-C-N	8.34	131.45	120.28
1	kw	142	VAL	C-N-CA	8.34	131.45	120.28
1	3d	223	GLY	CA-C-N	8.34	130.26	119.84
1	3d	223	GLY	C-N-CA	8.34	130.26	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3r	32	PHE	CA-CB-CG	-8.34	105.46	113.80
1	3O	199	LYS	CA-C-O	8.34	129.26	120.42
1	4e	79	GLU	N-CA-C	8.34	121.11	111.11
1	4I	171	THR	CA-C-O	8.34	129.39	120.55
1	9A	111	LEU	CA-C-N	8.34	131.79	120.54
1	9A	111	LEU	C-N-CA	8.34	131.79	120.54
1	9M	82	ARG	CA-C-O	-8.34	110.68	120.10
1	cl	92	GLU	O-C-N	-8.34	115.96	121.88
1	10	200	THR	CA-C-N	8.34	131.06	120.56
1	10	200	THR	C-N-CA	8.34	131.06	120.56
1	ak	196	PRO	CA-C-N	8.34	131.79	120.54
1	ak	196	PRO	C-N-CA	8.34	131.79	120.54
1	b5	80	TRP	N-CA-C	8.34	121.11	111.11
1	bn	83	LEU	N-CA-C	8.34	120.14	111.14
1	bP	160	PRO	CA-C-N	8.34	131.80	120.38
1	bP	160	PRO	C-N-CA	8.34	131.80	120.38
1	cS	67	GLN	CA-C-N	8.34	131.80	120.38
1	cS	67	GLN	C-N-CA	8.34	131.80	120.38
1	de	65	ALA	CA-C-N	8.34	131.28	120.44
1	de	65	ALA	C-N-CA	8.34	131.28	120.44
1	eY	20	LEU	CA-C-N	8.34	131.28	120.44
1	eY	20	LEU	C-N-CA	8.34	131.28	120.44
1	dT	229	ARG	NE-CZ-NH2	-8.34	111.70	119.20
1	N	57	ASN	CA-CB-CG	-8.34	104.26	112.60
1	h0	195	ASN	CA-C-N	8.33	130.26	119.84
1	h0	195	ASN	C-N-CA	8.33	130.26	119.84
1	h5	45	GLU	N-CA-C	8.33	122.59	110.42
1	h5	107	THR	N-CA-C	8.33	120.44	111.36
1	hW	190	LEU	CA-C-N	8.33	131.35	120.60
1	hW	190	LEU	C-N-CA	8.33	131.35	120.60
1	hZ	199	LYS	O-C-N	-8.33	113.29	122.12
1	iO	100	ARG	NE-CZ-NH2	8.33	126.70	119.20
1	jG	30	LYS	O-C-N	-8.33	112.33	122.25
1	kc	179	GLN	CA-C-O	-8.33	110.87	120.20
1	lL	163	ASP	N-CA-C	8.33	120.36	111.28
1	lN	3	VAL	CA-C-N	8.33	137.46	121.54
1	lN	3	VAL	C-N-CA	8.33	137.46	121.54
1	6o	143	ARG	NE-CZ-NH2	8.33	126.70	119.20
1	8i	203	LYS	CA-C-N	8.33	131.80	120.38
1	8i	203	LYS	C-N-CA	8.33	131.80	120.38
1	91	66	MET	CA-C-N	8.33	132.28	120.28
1	91	66	MET	C-N-CA	8.33	132.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e2	75	GLU	N-CA-C	8.33	121.11	111.11
1	e3	201	ILE	CA-C-O	-8.33	112.34	121.17
1	eo	191	VAL	N-CA-C	8.33	119.14	110.72
1	fu	206	GLY	CA-C-N	8.33	130.26	119.84
1	g5	22	ALA	O-C-N	-8.33	112.65	122.15
1	jL	97	ARG	NE-CZ-NH2	-8.33	111.70	119.20
1	kq	159	GLU	O-C-N	-8.33	113.69	121.35
1	la	169	TYR	N-CA-C	8.33	120.44	111.36
1	lM	138	LEU	CA-C-N	8.33	131.44	120.28
1	lM	138	LEU	C-N-CA	8.33	131.44	120.28
1	3f	154	ARG	NE-CZ-NH1	8.33	129.83	121.50
1	fu	206	GLY	C-N-CA	8.33	130.26	119.84
1	3T	199	LYS	CA-C-N	8.33	131.79	120.38
1	3T	199	LYS	C-N-CA	8.33	131.79	120.38
1	5X	215	MET	CA-C-N	8.33	131.79	120.54
1	5X	215	MET	C-N-CA	8.33	131.79	120.54
1	5Z	187	GLU	N-CA-C	8.33	120.36	111.28
1	7C	69	LEU	CA-C-O	8.33	129.57	120.82
1	Y	229	ARG	NE-CZ-NH1	8.33	129.83	121.50
1	a0	169	TYR	N-CA-C	8.33	121.29	111.71
1	aE	13	GLN	CA-C-N	8.33	132.57	120.82
1	aE	13	GLN	C-N-CA	8.33	132.57	120.82
1	b1	72	THR	O-C-N	-8.33	113.29	122.12
1	bv	173	ARG	N-CA-C	8.33	121.94	111.69
1	bE	195	ASN	CA-CB-CG	8.33	120.93	112.60
1	em	185	MET	N-CA-C	8.33	120.36	111.28
1	er	216	THR	CA-C-N	8.33	133.33	120.75
1	er	216	THR	C-N-CA	8.33	133.33	120.75
1	fE	146	SER	CA-C-O	-8.33	108.75	120.16
1	j	114	GLN	N-CA-C	8.33	120.36	111.28
1	go	166	ASP	N-CA-CB	8.33	122.09	110.01
1	hT	121	ASN	CA-CB-CG	8.33	120.93	112.60
1	gi	183	ASN	CA-C-N	8.33	131.44	120.28
1	gi	183	ASN	C-N-CA	8.33	131.44	120.28
1	gz	52	LEU	N-CA-C	8.33	120.36	111.28
1	gC	172	LEU	CA-C-N	8.33	131.44	120.28
1	gC	172	LEU	C-N-CA	8.33	131.44	120.28
1	hL	92	GLU	O-C-N	-8.33	116.02	121.85
1	iW	191	VAL	CA-C-O	8.33	128.67	119.92
1	3M	41	SER	CA-C-N	8.33	131.44	120.28
1	h1	73	ILE	N-CA-C	8.33	118.42	110.42
1	kO	229	ARG	NE-CZ-NH1	8.33	129.83	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kW	120	HIS	CE1-NE2-CD2	-8.33	100.67	109.00
1	lE	57	ASN	CA-CB-CG	-8.33	104.27	112.60
1	2p	51	ASP	N-CA-C	-8.33	101.24	111.40
1	2P	173	ARG	NE-CZ-NH1	8.33	129.83	121.50
1	3M	41	SER	C-N-CA	8.33	131.44	120.28
1	4y	136	LEU	CA-C-N	8.33	129.19	119.94
1	4y	136	LEU	C-N-CA	8.33	129.19	119.94
1	4E	86	VAL	N-CA-C	8.33	120.21	109.30
1	53	54	THR	CA-C-N	8.33	132.12	120.29
1	53	54	THR	C-N-CA	8.33	132.12	120.29
1	5P	130	TYR	N-CA-C	8.33	120.44	111.36
1	6E	175	GLU	O-C-N	-8.33	113.50	123.16
1	6T	217	ALA	N-CA-C	8.33	120.66	110.41
1	6Z	81	ASP	CA-CB-CG	-8.33	104.27	112.60
1	fs	92	GLU	O-C-N	-8.33	112.77	121.60
1	7A	171	THR	O-C-N	-8.33	112.66	122.15
1	7Z	34	PRO	CA-C-N	8.33	132.54	120.38
1	7Z	34	PRO	C-N-CA	8.33	132.54	120.38
1	89	75	GLU	N-CA-C	8.33	121.41	111.33
1	ar	78	ALA	CA-C-N	8.33	131.44	120.28
1	ar	78	ALA	C-N-CA	8.33	131.44	120.28
1	bl	64	ALA	CA-C-N	8.33	132.28	120.28
1	bl	64	ALA	C-N-CA	8.33	132.28	120.28
1	d1	225	GLY	O-C-N	-8.33	113.87	122.70
1	e4	115	ILE	N-CA-C	8.33	120.12	110.62
1	e9	71	GLU	N-CA-C	8.33	120.36	111.28
1	f2	158	LYS	CA-C-O	8.33	128.44	119.03
1	f7	161	PHE	CA-CB-CG	-8.33	105.47	113.80
1	fm	103	ASP	CA-C-N	8.33	131.06	120.56
1	fm	103	ASP	C-N-CA	8.33	131.06	120.56
1	1A	6	LEU	N-CA-C	8.33	121.41	111.33
1	hp	23	TRP	O-C-N	8.33	130.65	122.07
1	1N	92	GLU	CA-C-N	8.33	130.25	119.84
1	1N	92	GLU	C-N-CA	8.33	130.25	119.84
1	iK	155	GLN	N-CA-C	8.33	121.83	109.59
1	iW	54	THR	O-C-N	-8.33	113.49	122.07
1	lo	115	ILE	CA-C-N	8.33	129.16	120.00
1	lo	115	ILE	C-N-CA	8.33	129.16	120.00
1	lu	121	ASN	CA-CB-CG	-8.33	104.27	112.60
1	2M	142	VAL	CA-C-N	8.33	131.27	120.44
1	2M	142	VAL	C-N-CA	8.33	131.27	120.44
1	3e	36	VAL	CA-C-N	8.33	126.99	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3e	36	VAL	C-N-CA	8.33	126.99	120.33
1	3V	149	SER	CA-C-N	8.33	134.28	120.62
1	3V	149	SER	C-N-CA	8.33	134.28	120.62
1	4X	112	GLN	CA-C-O	-8.33	110.39	119.97
1	7G	185	MET	N-CA-C	8.33	121.41	111.33
1	3w	98	GLU	CA-C-O	-8.33	111.92	119.75
1	4n	138	LEU	O-C-N	-8.33	113.29	122.12
1	6b	6	LEU	CA-C-N	8.33	132.64	120.90
1	6b	6	LEU	C-N-CA	8.33	132.64	120.90
1	6D	229	ARG	NE-CZ-NH1	8.33	129.83	121.50
1	8O	122	PRO	CA-C-N	8.33	128.38	119.89
1	8O	122	PRO	C-N-CA	8.33	128.38	119.89
1	9e	57	ASN	CA-CB-CG	-8.33	104.27	112.60
1	d1	56	LEU	CA-C-N	8.33	131.44	120.28
1	9D	84	HIS	CA-C-O	-8.33	111.93	119.59
1	a1	179	GLN	N-CA-C	8.33	120.36	111.28
1	b0	37	ILE	O-C-N	-8.33	115.09	120.42
1	d1	56	LEU	C-N-CA	8.33	131.44	120.28
1	eh	160	PRO	N-CA-CB	8.33	110.59	103.35
1	bT	204	ALA	N-CA-C	8.33	120.13	111.14
1	f7	16	SER	N-CA-C	8.33	120.21	109.64
1	F	190	LEU	N-CA-CB	8.33	122.07	109.91
1	1Z	9	GLN	OE1-CD-NE2	-8.32	114.28	122.60
1	3u	203	LYS	N-CA-C	8.32	120.35	111.28
1	2g	186	THR	CA-C-O	8.32	129.56	120.82
1	3B	57	ASN	N-CA-C	8.32	120.35	111.28
1	4c	223	GLY	CA-C-N	8.32	130.25	119.84
1	4c	223	GLY	C-N-CA	8.32	130.25	119.84
1	6D	12	HIS	CA-CB-CG	8.32	122.12	113.80
1	6E	86	VAL	CA-C-O	8.32	129.18	120.36
1	9U	113	GLU	O-C-N	-8.32	113.30	122.12
1	aC	46	GLY	CA-C-O	8.32	128.32	119.00
1	aH	164	TYR	CA-C-N	8.32	131.34	120.60
1	aH	164	TYR	C-N-CA	8.32	131.34	120.60
1	aN	223	GLY	CA-C-N	8.32	130.25	119.84
1	aN	223	GLY	C-N-CA	8.32	130.25	119.84
1	df	137	GLY	N-CA-C	8.32	122.72	112.73
1	bx	104	ILE	O-C-N	-8.32	113.73	121.89
1	cO	141	ILE	N-CA-CB	8.32	120.29	110.55
1	cQ	53	ASN	CA-CB-CG	-8.32	104.28	112.60
1	ex	63	GLN	OE1-CD-NE2	-8.32	114.28	122.60
1	fv	55	MET	N-CA-C	8.32	119.98	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fA	74	ASN	OD1-CG-ND2	-8.32	114.28	122.60
1	j7	121	ASN	CA-C-O	-8.32	113.10	119.59
1	2Q	16	SER	O-C-N	8.32	129.87	121.30
1	2R	169	TYR	N-CA-C	8.32	121.40	111.33
1	3W	152	ASP	CA-CB-CG	-8.32	104.28	112.60
1	6Z	161	PHE	CA-CB-CG	8.32	122.12	113.80
1	7V	199	LYS	CA-C-N	8.32	131.43	120.28
1	7V	199	LYS	C-N-CA	8.32	131.43	120.28
1	fo	170	LYS	CA-C-O	8.32	129.37	120.55
1	fE	27	VAL	O-C-N	-8.32	113.02	122.17
1	gu	170	LYS	N-CA-C	8.32	119.97	111.07
1	gH	113	GLU	N-CA-C	8.32	120.35	111.28
1	hG	191	VAL	N-CA-C	8.32	119.12	110.72
1	e	114	GLN	CA-C-N	8.32	132.26	120.53
1	i9	12	HIS	ND1-CE1-NE2	8.32	116.72	108.40
1	lc	230	VAL	N-CA-C	-8.32	104.36	113.43
1	49	69	LEU	N-CA-C	8.32	120.35	111.28
1	4c	182	LYS	CA-C-N	8.32	131.43	120.28
1	4c	182	LYS	C-N-CA	8.32	131.43	120.28
1	5P	81	ASP	CA-C-N	8.32	131.78	120.38
1	5P	81	ASP	C-N-CA	8.32	131.78	120.38
1	50	191	VAL	N-CA-C	-8.32	102.71	110.53
1	6K	62	HIS	CA-CB-CG	-8.32	105.48	113.80
1	7Z	80	TRP	CA-C-N	8.32	131.25	120.44
1	7Z	80	TRP	C-N-CA	8.32	131.25	120.44
1	8f	176	GLN	O-C-N	-8.32	113.74	123.06
1	9w	229	ARG	N-CA-C	8.32	121.06	110.24
1	9A	59	VAL	N-CA-C	8.32	122.37	112.80
1	a0	32	PHE	CA-CB-CG	-8.32	105.48	113.80
1	aG	131	LYS	O-C-N	-8.32	113.30	122.12
1	cr	146	SER	O-C-N	-8.32	113.89	121.30
1	dV	117	TRP	N-CA-C	8.32	120.35	111.28
1	ea	230	VAL	N-CA-CB	8.32	120.54	110.31
1	f7	213	GLU	CA-C-N	8.32	131.26	120.44
1	f7	213	GLU	C-N-CA	8.32	131.26	120.44
1	1B	139	ASN	CA-CB-CG	-8.32	104.28	112.60
1	e	114	GLN	C-N-CA	8.32	132.26	120.53
1	O	76	GLU	CA-C-N	8.32	131.78	120.38
1	O	76	GLU	C-N-CA	8.32	131.78	120.38
1	gB	72	THR	CA-C-N	8.32	131.33	120.60
1	gB	72	THR	C-N-CA	8.32	131.33	120.60
1	h1	152	ASP	CA-CB-CG	-8.32	104.28	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hd	34	PRO	CA-C-N	8.32	132.10	120.29
1	hd	34	PRO	C-N-CA	8.32	132.10	120.29
1	iH	21	ASN	CA-CB-CG	8.32	120.92	112.60
1	1S	226	HIS	ND1-CE1-NE2	8.32	116.72	108.40
1	jk	141	ILE	O-C-N	-8.32	113.76	121.91
1	lh	149	SER	CA-C-N	8.32	131.85	120.46
1	lh	149	SER	C-N-CA	8.32	131.85	120.46
1	3q	210	THR	O-C-N	-8.32	113.05	122.86
1	3P	97	ARG	NE-CZ-NH2	-8.32	111.71	119.20
1	j	153	ILE	N-CA-CB	8.32	121.14	111.66
1	hz	90	PRO	N-CA-C	8.32	123.56	110.50
1	i1	141	ILE	N-CA-C	8.32	119.09	110.36
1	j4	52	LEU	CA-C-N	8.32	131.25	120.44
1	j4	52	LEU	C-N-CA	8.32	131.25	120.44
1	j7	168	PHE	CA-C-O	8.32	129.55	120.82
1	jO	203	LYS	CA-C-N	8.32	131.42	120.28
1	jO	203	LYS	C-N-CA	8.32	131.42	120.28
1	25	177	ALA	CA-C-N	8.32	133.04	120.82
1	25	177	ALA	C-N-CA	8.32	133.04	120.82
1	l3	48	THR	CA-C-N	8.32	130.24	119.84
1	l3	48	THR	C-N-CA	8.32	130.24	119.84
1	2I	128	GLU	N-CA-C	8.32	119.97	111.07
1	3M	18	ARG	NE-CZ-NH2	-8.32	111.72	119.20
1	7k	229	ARG	CA-C-N	8.32	131.91	120.35
1	7k	229	ARG	C-N-CA	8.32	131.91	120.35
1	7I	124	ILE	O-C-N	-8.32	116.13	121.37
1	8p	50	GLN	N-CA-C	8.32	121.28	111.71
1	8m	62	HIS	ND1-CE1-NE2	8.32	116.72	108.40
1	av	57	ASN	CA-CB-CG	-8.32	104.28	112.60
1	aA	110	THR	CA-C-N	8.32	131.25	120.44
1	aA	110	THR	C-N-CA	8.32	131.25	120.44
1	aQ	14	ALA	O-C-N	-8.32	112.64	122.87
1	bZ	206	GLY	CA-C-N	8.32	128.01	119.19
1	bZ	206	GLY	C-N-CA	8.32	128.01	119.19
1	fA	136	LEU	CA-C-N	8.32	129.15	120.00
1	fA	136	LEU	C-N-CA	8.32	129.15	120.00
1	jC	143	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	jO	76	GLU	N-CA-C	8.31	120.03	110.97
1	4A	3	VAL	O-C-N	-8.31	114.20	123.10
1	cz	146	SER	N-CA-C	8.31	121.40	109.84
1	d9	76	GLU	N-CA-C	8.31	121.09	111.11
1	gr	77	ALA	N-CA-C	8.31	121.08	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	25	LYS	N-CA-C	8.31	121.09	111.11
1	jU	195	ASN	CA-CB-CG	8.31	120.91	112.60
1	kx	33	SER	O-C-N	-8.31	116.03	121.85
1	lM	128	GLU	N-CA-CB	8.31	122.07	110.01
1	6K	195	ASN	CA-CB-CG	8.31	120.92	112.60
1	a8	29	GLU	N-CA-C	8.31	120.34	111.28
1	eQ	216	THR	CA-CB-CG2	-8.31	96.36	110.50
1	4K	102	SER	CA-C-N	8.31	131.25	120.44
1	4K	102	SER	C-N-CA	8.31	131.25	120.44
1	6b	83	LEU	N-CA-C	8.31	120.34	111.28
1	6b	181	VAL	N-CA-CB	8.31	120.28	110.55
1	6K	143	ARG	NH1-CZ-NH2	-8.31	108.49	119.30
1	6U	26	VAL	CA-C-N	8.31	131.85	120.46
1	6U	26	VAL	C-N-CA	8.31	131.85	120.46
1	73	97	ARG	NE-CZ-NH2	-8.31	111.72	119.20
1	9M	184	TRP	O-C-N	-8.31	112.49	122.22
1	bf	41	SER	CA-C-N	8.31	131.25	120.44
1	bf	41	SER	C-N-CA	8.31	131.25	120.44
1	bD	173	ARG	NH1-CZ-NH2	-8.31	108.49	119.30
1	bX	71	GLU	CA-C-N	8.31	131.42	120.28
1	bX	71	GLU	C-N-CA	8.31	131.42	120.28
1	1d	132	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	dB	110	THR	CA-C-N	8.31	131.77	120.38
1	dB	110	THR	C-N-CA	8.31	131.77	120.38
1	M	173	ARG	CA-C-N	8.31	131.42	120.28
1	M	173	ARG	C-N-CA	8.31	131.42	120.28
1	1n	201	ILE	CA-C-N	8.31	131.42	120.28
1	1n	201	ILE	C-N-CA	8.31	131.42	120.28
1	ex	33	SER	O-C-N	-8.31	112.12	121.43
1	8	84	HIS	CE1-NE2-CD2	-8.31	100.69	109.00
1	iK	63	GLN	N-CA-C	8.31	122.68	112.54
1	6R	203	LYS	CA-C-N	8.31	131.25	120.44
1	82	12	HIS	CA-CB-CG	8.31	122.11	113.80
1	dr	167	ARG	NE-CZ-NH2	-8.31	111.72	119.20
1	gf	53	ASN	CA-CB-CG	-8.31	104.29	112.60
1	hw	206	GLY	CA-C-N	8.31	128.51	119.87
1	hw	206	GLY	C-N-CA	8.31	128.51	119.87
1	i6	198	CYS	CA-C-N	8.31	131.25	120.44
1	i6	198	CYS	C-N-CA	8.31	131.25	120.44
1	jg	32	PHE	CA-CB-CG	-8.31	105.49	113.80
1	it	27	VAL	CA-C-N	8.31	131.76	120.54
1	it	27	VAL	C-N-CA	8.31	131.76	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jY	33	SER	CA-C-N	8.31	128.79	119.32
1	jY	33	SER	C-N-CA	8.31	128.79	119.32
1	ki	162	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	kk	191	VAL	CA-C-N	8.31	131.76	120.38
1	kk	191	VAL	C-N-CA	8.31	131.76	120.38
1	ks	138	LEU	CA-C-N	8.31	131.42	120.28
1	ks	138	LEU	C-N-CA	8.31	131.42	120.28
1	lm	177	ALA	N-CA-C	8.31	121.96	110.24
1	2v	21	ASN	CA-CB-CG	-8.31	104.29	112.60
1	2Z	24	VAL	N-CA-C	8.31	120.09	110.62
1	4v	34	PRO	CA-C-N	8.31	131.42	120.28
1	4v	34	PRO	C-N-CA	8.31	131.42	120.28
1	4G	139	ASN	N-CA-C	8.31	121.08	111.11
1	5s	114	GLN	N-CA-C	8.31	120.34	111.28
1	6b	58	THR	N-CA-C	8.31	121.39	111.33
1	6R	203	LYS	C-N-CA	8.31	131.25	120.44
1	6i	115	ILE	CA-C-O	8.31	129.66	120.85
1	8y	2	ILE	O-C-N	-8.31	113.80	123.03
1	8H	214	MET	N-CA-C	8.31	119.96	111.07
1	9p	143	ARG	NE-CZ-NH2	8.31	126.68	119.20
1	a0	155	GLN	CA-C-O	8.31	130.82	121.51
1	d3	103	ASP	N-CA-C	8.31	120.34	111.28
1	aH	116	GLY	CA-C-O	-8.31	112.03	121.00
1	b6	113	GLU	CA-C-N	8.31	131.24	120.44
1	b6	113	GLU	C-N-CA	8.31	131.24	120.44
1	br	191	VAL	CA-C-O	8.31	127.18	119.20
1	eo	218	CYS	N-CA-CB	-8.31	99.67	112.30
1	fC	138	LEU	N-CA-C	8.31	120.34	111.28
1	s	82	ARG	NE-CZ-NH1	8.31	129.81	121.50
1	gl	22	ALA	CA-C-N	8.31	131.24	120.44
1	gl	22	ALA	C-N-CA	8.31	131.24	120.44
1	h3	49	PRO	N-CA-C	8.31	126.13	113.75
1	jj	134	ILE	CB-CA-C	-8.31	100.92	112.14
1	2r	92	GLU	O-C-N	-8.31	112.47	120.70
1	9E	213	GLU	N-CA-C	8.31	120.42	111.36
1	kh	191	VAL	O-C-N	-8.31	113.77	121.91
1	25	4	GLN	OE1-CD-NE2	-8.31	114.29	122.60
1	lN	181	VAL	O-C-N	-8.31	113.81	121.87
1	2z	154	ARG	NE-CZ-NH2	-8.31	111.72	119.20
1	2L	62	HIS	CA-CB-CG	8.31	122.11	113.80
1	3N	75	GLU	N-CA-C	8.31	119.96	111.07
1	8f	125	PRO	N-CA-CB	-8.31	96.43	102.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9z	32	PHE	CA-CB-CG	-8.31	105.49	113.80
1	a1	84	HIS	N-CA-C	8.31	121.51	109.71
1	bM	165	VAL	O-C-N	-8.31	113.27	121.83
1	ck	10	MET	N-CA-C	8.31	122.28	110.23
1	5z	12	HIS	CE1-NE2-CD2	-8.31	100.69	109.00
1	5L	141	ILE	N-CA-C	8.31	119.09	110.62
1	8V	181	VAL	N-CA-CB	8.31	120.27	110.55
1	9T	142	VAL	N-CA-C	8.31	119.08	110.36
1	aV	53	ASN	CA-C-O	-8.31	112.10	120.82
1	b4	27	VAL	N-CA-C	8.31	118.39	110.42
1	S	48	THR	CA-C-N	8.31	128.79	119.32
1	S	48	THR	C-N-CA	8.31	128.79	119.32
1	bH	77	ALA	O-C-N	-8.31	113.31	122.12
1	d6	37	ILE	N-CA-C	8.31	123.05	112.67
1	do	65	ALA	O-C-N	-8.31	112.68	122.15
1	g5	11	VAL	O-C-N	-8.31	114.10	123.07
1	l	121	ASN	CA-C-O	-8.31	111.58	119.55
1	X	63	GLN	CG-CD-NE2	8.31	128.86	116.40
1	i4	182	LYS	N-CA-C	8.30	120.33	111.28
1	jB	118	MET	N-CA-C	-8.31	103.34	113.97
1	ki	114	GLN	CA-C-N	8.31	131.84	120.46
1	ki	114	GLN	C-N-CA	8.31	131.84	120.46
1	kr	33	SER	O-C-N	-8.31	114.48	121.54
1	3Q	153	ILE	CA-C-N	8.31	134.18	122.72
1	3Q	153	ILE	C-N-CA	8.31	134.18	122.72
1	6B	126	VAL	N-CA-C	8.31	119.09	110.62
1	84	37	ILE	N-CA-CB	8.31	115.73	110.50
1	ec	169	TYR	N-CA-C	8.31	120.33	111.28
1	gs	79	GLU	N-CA-C	8.30	120.33	111.28
1	gF	180	GLU	N-CA-C	8.30	122.38	111.75
1	iF	128	GLU	CA-C-N	8.30	131.02	120.56
1	iF	128	GLU	C-N-CA	8.30	131.02	120.56
1	j9	100	ARG	CA-C-N	8.30	129.37	119.99
1	j9	100	ARG	C-N-CA	8.30	129.37	119.99
1	jY	159	GLU	N-CA-C	8.30	124.47	109.44
1	k8	25	LYS	CA-C-O	-8.30	111.75	120.55
1	kd	190	LEU	CA-C-N	8.30	131.02	120.56
1	kd	190	LEU	C-N-CA	8.30	131.02	120.56
1	l3	169	TYR	N-CA-C	8.30	120.41	111.36
1	3t	230	VAL	CA-C-O	8.30	128.72	119.42
1	44	166	ASP	CA-C-N	8.30	131.24	120.44
1	44	166	ASP	C-N-CA	8.30	131.24	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5P	78	ALA	CA-C-N	8.31	131.41	120.28
1	5P	78	ALA	C-N-CA	8.31	131.41	120.28
1	9q	133	TRP	CB-CG-CD2	-8.31	115.17	126.80
1	c6	129	ILE	N-CA-C	8.30	119.09	110.62
1	cM	95	GLN	OE1-CD-NE2	-8.30	114.30	122.60
1	dt	177	ALA	N-CA-C	8.31	122.57	110.28
1	d	98	GLU	CA-C-O	-8.30	111.53	120.17
1	6A	188	THR	N-CA-C	8.30	119.95	111.07
1	98	53	ASN	CA-CB-CG	-8.30	104.30	112.60
1	99	33	SER	O-C-N	-8.30	115.59	121.65
1	cA	110	THR	O-C-N	-8.30	112.96	122.68
1	eB	94	GLY	CA-C-O	8.30	128.15	119.10
1	1x	156	GLY	CA-C-N	8.30	128.51	119.87
1	1x	156	GLY	C-N-CA	8.30	128.51	119.87
1	9Y	210	THR	CA-CB-OG1	8.30	122.05	109.60
1	bH	203	LYS	CA-C-N	8.30	131.41	120.28
1	bH	203	LYS	C-N-CA	8.30	131.41	120.28
1	ci	77	ALA	CA-C-N	8.30	131.23	120.44
1	ci	77	ALA	C-N-CA	8.30	131.23	120.44
1	dg	13	GLN	OE1-CD-NE2	-8.30	114.30	122.60
1	fc	154	ARG	NE-CZ-NH2	8.30	126.67	119.20
1	fX	169	TYR	N-CA-C	-8.30	102.23	111.28
1	gs	40	PHE	CA-C-N	8.30	131.23	120.44
1	gs	40	PHE	C-N-CA	8.30	131.23	120.44
1	gN	12	HIS	CA-CB-CG	8.30	122.10	113.80
1	h0	48	THR	CA-C-N	8.30	128.78	119.32
1	h0	48	THR	C-N-CA	8.30	128.78	119.32
1	jI	37	ILE	CA-C-O	-8.30	113.13	118.69
1	21	141	ILE	N-CA-CB	8.30	121.20	110.57
1	36	50	GLN	N-CA-C	8.30	120.33	111.28
1	ih	174	ALA	N-CA-C	8.30	120.33	111.28
1	j5	20	LEU	CA-C-N	8.30	131.23	120.44
1	j5	20	LEU	C-N-CA	8.30	131.23	120.44
1	jI	87	HIS	CA-CB-CG	8.30	122.10	113.80
1	kv	141	ILE	CB-CA-C	-8.30	101.34	111.97
1	lw	63	GLN	CA-C-N	8.30	131.41	120.28
1	lw	63	GLN	C-N-CA	8.30	131.41	120.28
1	2P	154	ARG	NE-CZ-NH2	8.30	126.67	119.20
1	5r	43	LEU	N-CA-C	8.30	120.33	111.28
1	6a	72	THR	CA-C-N	8.30	131.02	120.56
1	6a	72	THR	C-N-CA	8.30	131.02	120.56
1	6a	188	THR	CA-C-N	8.30	131.23	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6a	188	THR	C-N-CA	8.30	131.23	120.44
1	aD	226	HIS	CE1-NE2-CD2	-8.30	100.70	109.00
1	6a	31	ALA	O-C-N	-8.30	111.55	122.59
1	6L	26	VAL	N-CA-C	8.30	119.09	110.62
1	8x	89	GLY	CA-C-N	8.30	128.80	119.92
1	8x	89	GLY	C-N-CA	8.30	128.80	119.92
1	8Z	33	SER	CA-C-O	-8.30	112.37	120.26
1	9H	136	LEU	CA-C-N	8.30	128.99	119.94
1	9H	136	LEU	C-N-CA	8.30	128.99	119.94
1	c6	31	ALA	N-CA-C	8.30	122.38	111.75
1	dK	18	ARG	NE-CZ-NH1	8.30	129.80	121.50
1	1u	200	THR	CA-CB-OG1	8.30	122.05	109.60
1	fI	181	VAL	N-CA-C	8.30	118.39	110.42
1	7x	84	HIS	CA-CB-CG	8.30	122.10	113.80
1	7D	45	GLU	N-CA-C	8.30	122.51	112.38
1	9Q	52	LEU	CA-C-N	8.30	131.40	120.28
1	9Q	52	LEU	C-N-CA	8.30	131.40	120.28
1	aB	212	GLU	N-CA-C	8.30	121.37	111.33
1	dd	143	ARG	NE-CZ-NH2	-8.30	111.73	119.20
1	dJ	162	ARG	N-CA-C	8.30	120.33	111.28
1	dX	223	GLY	O-C-N	-8.30	113.47	121.77
1	e4	19	THR	CA-C-N	8.30	131.41	120.28
1	e4	19	THR	C-N-CA	8.30	131.41	120.28
1	f6	80	TRP	CA-C-N	8.30	131.40	120.28
1	f6	80	TRP	C-N-CA	8.30	131.40	120.28
1	fO	212	GLU	N-CA-C	8.30	120.33	111.28
1	fc	226	HIS	CE1-NE2-CD2	-8.30	100.70	109.00
1	fl	155	GLN	N-CA-C	8.30	121.95	109.25
1	hm	42	ALA	N-CA-C	8.30	120.33	111.28
1	kv	82	ARG	O-C-N	8.30	130.62	122.07
1	je	181	VAL	N-CA-C	8.30	118.33	110.53
1	kO	140	LYS	CA-C-N	8.30	131.83	120.46
1	kO	140	LYS	C-N-CA	8.30	131.83	120.46
1	35	156	GLY	O-C-N	-8.30	114.95	122.42
1	3v	136	LEU	CA-C-N	8.30	129.13	120.00
1	3v	136	LEU	C-N-CA	8.30	129.13	120.00
1	4r	57	ASN	CA-C-O	8.30	128.98	119.27
1	5k	223	GLY	CA-C-N	8.30	128.78	119.32
1	5k	223	GLY	C-N-CA	8.30	128.78	119.32
1	5N	195	ASN	CA-C-N	8.30	130.21	119.84
1	5N	195	ASN	C-N-CA	8.30	130.21	119.84
1	9f	227	LYS	CA-C-N	8.30	132.49	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9f	227	LYS	C-N-CA	8.30	132.49	120.71
1	dM	19	THR	N-CA-CB	8.30	122.32	110.12
1	9p	36	VAL	CA-C-N	8.30	126.97	120.33
1	9p	36	VAL	C-N-CA	8.30	126.97	120.33
1	b4	98	GLU	O-C-N	-8.30	113.92	121.30
1	bi	23	TRP	N-CA-C	8.30	120.10	111.14
1	cn	41	SER	O-C-N	-8.30	113.32	122.12
1	d0	162	ARG	N-CA-C	8.30	121.07	111.11
1	d0	163	ASP	O-C-N	-8.30	112.06	122.27
1	dE	36	VAL	CA-C-N	8.30	125.47	120.24
1	dE	36	VAL	C-N-CA	8.30	125.47	120.24
1	g1	173	ARG	NE-CZ-NH1	8.30	129.80	121.50
1	1n	167	ARG	NE-CZ-NH1	8.30	129.80	121.50
1	eG	60	GLY	N-CA-C	-8.30	104.37	114.66
1	fV	226	HIS	CA-CB-CG	-8.30	105.50	113.80
1	l	183	ASN	O-C-N	-8.30	113.33	122.12
1	ha	146	SER	CA-C-N	8.30	127.87	119.24
1	ha	146	SER	C-N-CA	8.30	127.87	119.24
1	lv	137	GLY	CA-C-O	-8.30	112.04	121.00
1	hF	11	VAL	O-C-N	-8.29	114.14	122.76
1	ja	114	GLN	CA-C-N	8.29	131.01	120.56
1	ja	114	GLN	C-N-CA	8.29	131.01	120.56
1	k4	26	VAL	CA-C-O	8.30	129.96	121.17
1	jE	31	ALA	N-CA-C	8.29	121.25	111.71
1	lo	77	ALA	N-CA-C	8.29	121.37	111.33
1	4g	124	ILE	O-C-N	-8.30	113.41	121.12
1	2p	25	LYS	N-CA-C	8.29	120.32	111.28
1	5c	119	THR	N-CA-CB	8.29	123.59	110.73
1	5F	195	ASN	CA-CB-CG	-8.29	104.31	112.60
1	5U	167	ARG	CA-C-N	8.30	131.22	120.44
1	5U	167	ARG	C-N-CA	8.30	131.22	120.44
1	6g	217	ALA	O-C-N	-8.30	113.07	122.86
1	7J	111	LEU	N-CA-C	8.30	121.37	111.33
1	6v	167	ARG	NE-CZ-NH2	8.29	126.66	119.20
1	78	102	SER	CA-C-N	8.29	131.74	120.38
1	78	102	SER	C-N-CA	8.29	131.74	120.38
1	7p	63	GLN	N-CA-C	8.29	120.40	111.36
1	8a	29	GLU	N-CA-C	8.29	120.32	111.28
1	9s	120	HIS	CA-CB-CG	8.29	122.09	113.80
1	au	202	LEU	N-CA-C	8.30	119.95	111.07
1	b4	144	MET	CA-C-N	8.29	135.98	121.80
1	b4	144	MET	C-N-CA	8.29	135.98	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	195	ASN	O-C-N	-8.29	111.78	121.32
1	et	183	ASN	CA-CB-CG	8.29	120.89	112.60
1	l	27	VAL	N-CA-C	8.29	118.86	110.23
1	F	166	ASP	N-CA-C	8.29	119.94	111.07
1	G	86	VAL	N-CA-CB	8.29	121.19	110.57
1	7	91	ILE	N-CA-C	8.29	118.33	110.53
1	gz	221	VAL	O-C-N	-8.29	114.61	122.16
1	h5	82	ARG	N-CA-CB	8.29	122.03	110.01
1	hC	89	GLY	CA-C-N	8.29	130.21	119.84
1	hC	89	GLY	C-N-CA	8.29	130.21	119.84
1	hL	20	LEU	CA-C-N	8.29	131.22	120.44
1	hL	20	LEU	C-N-CA	8.29	131.22	120.44
1	hM	154	ARG	NE-CZ-NH1	8.29	129.79	121.50
1	ip	4	GLN	N-CA-CB	8.29	124.50	110.49
1	iA	83	LEU	N-CA-C	8.29	120.32	111.28
1	kk	47	ALA	N-CA-C	8.29	122.94	109.76
1	lu	17	PRO	CA-C-N	8.29	131.39	120.28
1	lu	17	PRO	C-N-CA	8.29	131.39	120.28
1	l2	132	ARG	N-CA-C	8.29	120.32	111.28
1	lR	33	SER	O-C-N	-8.29	115.99	121.88
1	2b	57	ASN	CA-C-N	8.29	131.74	120.38
1	2b	57	ASN	C-N-CA	8.29	131.74	120.38
1	2q	220	GLY	CA-C-N	8.29	131.66	120.63
1	2q	220	GLY	C-N-CA	8.29	131.66	120.63
1	2F	221	VAL	CB-CA-C	-8.29	101.18	111.88
1	3H	49	PRO	CA-C-N	8.29	131.73	120.54
1	3H	49	PRO	C-N-CA	8.29	131.73	120.54
1	4f	31	ALA	N-CA-C	8.29	121.36	111.33
1	4m	84	HIS	CE1-NE2-CD2	-8.29	100.71	109.00
1	4Y	226	HIS	CA-C-N	8.29	132.48	120.71
1	4Y	226	HIS	C-N-CA	8.29	132.48	120.71
1	5I	143	ARG	NH1-CZ-NH2	8.29	130.08	119.30
1	7d	143	ARG	NE-CZ-NH1	8.29	129.79	121.50
1	7C	137	GLY	CA-C-N	8.29	131.22	120.44
1	7C	137	GLY	C-N-CA	8.29	131.22	120.44
1	a9	156	GLY	O-C-N	-8.29	113.48	121.77
1	8D	102	SER	N-CA-CB	8.29	122.03	110.01
1	9F	114	GLN	N-CA-C	8.29	119.94	111.07
1	10	140	LYS	O-C-N	-8.29	113.33	122.12
1	aY	210	THR	CA-C-N	8.29	132.49	120.38
1	aY	210	THR	C-N-CA	8.29	132.49	120.38
1	e8	214	MET	CA-C-O	8.29	129.34	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aC	192	GLN	N-CA-C	8.29	119.94	111.07
1	b0	223	GLY	CA-C-N	8.29	127.98	119.19
1	b0	223	GLY	C-N-CA	8.29	127.98	119.19
1	dz	156	GLY	CA-C-N	8.29	128.50	119.87
1	bf	48	THR	N-CA-CB	8.29	121.23	110.04
1	19	183	ASN	N-CA-C	8.29	121.25	111.71
1	dz	156	GLY	C-N-CA	8.29	128.50	119.87
1	en	184	TRP	CA-C-N	8.29	133.26	120.82
1	fV	125	PRO	CA-C-N	8.29	132.22	120.53
1	fV	125	PRO	C-N-CA	8.29	132.22	120.53
1	bX	211	LEU	O-C-N	-8.29	113.33	122.12
1	de	201	ILE	CA-C-N	8.29	131.39	120.28
1	de	201	ILE	C-N-CA	8.29	131.39	120.28
1	dB	100	ARG	CA-C-N	8.29	129.15	119.94
1	dB	100	ARG	C-N-CA	8.29	129.15	119.94
1	en	184	TRP	C-N-CA	8.29	133.26	120.82
1	fm	201	ILE	CA-C-N	8.29	131.39	120.28
1	fm	201	ILE	C-N-CA	8.29	131.39	120.28
1	fn	5	ASN	CA-CB-CG	8.29	120.89	112.60
1	b	99	PRO	O-C-N	-8.29	114.89	122.93
1	ig	97	ARG	NE-CZ-NH2	-8.29	111.74	119.20
1	go	124	ILE	CA-C-O	-8.29	113.80	119.19
1	1H	213	GLU	CA-C-N	8.29	131.39	120.28
1	1H	213	GLU	C-N-CA	8.29	131.39	120.28
1	iM	125	PRO	N-CA-CB	-8.29	96.68	102.73
1	ja	53	ASN	N-CA-C	8.29	121.24	111.71
1	l6	206	GLY	O-C-N	-8.29	113.48	121.77
1	78	217	ALA	O-C-N	-8.29	113.40	122.85
1	7E	82	ARG	N-CA-C	8.29	119.94	111.07
1	92	126	VAL	N-CA-C	8.29	119.08	110.62
1	du	125	PRO	N-CA-CB	8.29	108.26	102.79
1	gH	209	ALA	O-C-N	-8.29	113.34	122.79
1	jC	152	ASP	CA-CB-CG	-8.29	104.31	112.60
1	jS	119	THR	N-CA-CB	8.29	123.37	110.44
1	kp	200	THR	N-CA-C	8.29	119.94	111.07
1	5w	102	SER	CA-C-N	8.29	131.39	120.28
1	5w	102	SER	C-N-CA	8.29	131.39	120.28
1	l3	28	GLU	CA-C-O	-8.29	112.12	120.82
1	2m	82	ARG	NE-CZ-NH1	8.29	129.79	121.50
1	3e	176	GLN	O-C-N	-8.29	113.66	123.27
1	3X	106	GLY	CA-C-N	8.29	131.39	120.28
1	3X	106	GLY	C-N-CA	8.29	131.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	172	LEU	N-CA-C	8.29	120.31	111.28
1	4w	129	ILE	CA-C-N	8.29	131.21	120.44
1	4w	129	ILE	C-N-CA	8.29	131.21	120.44
1	5n	26	VAL	CA-C-O	8.29	129.57	120.95
1	cn	65	ALA	N-CA-C	8.29	120.32	111.28
1	56	41	SER	N-CA-C	8.29	121.36	111.33
1	7a	39	MET	CA-C-N	8.29	131.39	120.28
1	7a	39	MET	C-N-CA	8.29	131.39	120.28
1	9a	84	HIS	CB-CG-CD2	-8.29	120.43	131.20
1	9r	132	ARG	NH1-CZ-NH2	-8.29	108.53	119.30
1	Y	173	ARG	NE-CZ-NH1	8.29	129.79	121.50
1	dN	16	SER	CA-C-N	8.29	129.09	119.47
1	ar	16	SER	CA-C-O	-8.29	113.23	120.19
1	aE	62	HIS	ND1-CG-CD2	8.29	114.39	106.10
1	dN	16	SER	C-N-CA	8.29	129.09	119.47
1	aJ	32	PHE	CA-CB-CG	-8.29	105.51	113.80
1	b0	179	GLN	N-CA-C	8.29	120.39	111.36
1	be	18	ARG	O-C-N	-8.29	113.33	122.12
1	dN	66	MET	N-CA-C	8.29	119.94	111.07
1	fP	212	GLU	CA-C-N	8.29	131.39	120.28
1	fP	212	GLU	C-N-CA	8.29	131.39	120.28
1	eh	18	ARG	N-CA-C	8.29	119.94	111.07
1	eU	223	GLY	O-C-N	-8.29	113.48	121.77
1	h	141	ILE	N-CA-CB	8.29	120.25	110.55
1	s	82	ARG	NE-CZ-NH2	-8.29	111.74	119.20
1	z	154	ARG	NE-CZ-NH2	-8.29	111.74	119.20
1	F	230	VAL	N-CA-C	8.29	118.38	110.42
1	jt	74	ASN	CA-CB-CG	-8.29	104.31	112.60
1	lc	114	GLN	N-CA-C	8.29	121.36	111.33
1	9g	195	ASN	CA-C-O	-8.29	111.67	120.70
1	ap	71	GLU	N-CA-C	8.29	120.31	111.28
1	cY	84	HIS	CA-CB-CG	-8.29	105.51	113.80
1	eq	51	ASP	CA-C-N	8.29	131.21	120.44
1	eq	51	ASP	C-N-CA	8.29	131.21	120.44
1	Q	92	GLU	O-C-N	-8.29	116.00	121.88
1	gX	74	ASN	CA-CB-CG	-8.28	104.32	112.60
1	hT	103	ASP	CA-CB-CG	-8.28	104.32	112.60
1	iz	139	ASN	CA-CB-CG	-8.28	104.32	112.60
1	jH	162	ARG	CA-C-N	8.28	131.21	120.44
1	jH	162	ARG	C-N-CA	8.28	131.21	120.44
1	jW	166	ASP	N-CA-C	8.28	121.05	111.11
1	ku	229	ARG	NE-CZ-NH1	8.28	129.78	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	195	ASN	CA-C-O	-8.28	111.96	119.75
1	l8	153	ILE	O-C-N	-8.28	112.22	122.57
1	2Q	223	GLY	CA-C-N	8.28	130.19	119.84
1	2Q	223	GLY	C-N-CA	8.28	130.19	119.84
1	37	49	PRO	CA-C-N	8.29	131.38	120.28
1	37	49	PRO	C-N-CA	8.29	131.38	120.28
1	97	38	PRO	N-CA-CB	8.29	112.72	103.44
1	6r	10	MET	N-CA-C	8.28	122.39	109.96
1	9c	150	ILE	CA-C-N	8.29	132.21	120.28
1	9c	150	ILE	C-N-CA	8.29	132.21	120.28
1	df	82	ARG	NH1-CZ-NH2	-8.29	108.53	119.30
1	a0	155	GLN	O-C-N	-8.28	112.52	122.96
1	bo	190	LEU	O-C-N	-8.28	113.34	122.12
1	ea	221	VAL	O-C-N	-8.29	113.50	121.87
1	ez	145	TYR	CA-C-N	8.29	132.25	120.49
1	ez	145	TYR	C-N-CA	8.29	132.25	120.49
1	eN	167	ARG	N-CA-C	8.28	121.43	111.82
1	eS	215	MET	CG-SD-CE	-8.29	82.67	100.90
1	fE	142	VAL	CA-CB-CG2	-8.28	96.32	110.40
1	T	88	ALA	CA-C-O	8.28	129.25	119.56
1	gD	97	ARG	N-CA-C	8.28	121.01	110.24
1	iG	36	VAL	N-CA-C	8.28	119.07	110.62
1	lM	229	ARG	NE-CZ-NH2	8.28	126.66	119.20
1	2u	124	ILE	CA-C-O	-8.28	114.26	119.15
1	3n	89	GLY	CA-C-N	8.28	130.19	119.84
1	3n	89	GLY	C-N-CA	8.28	130.19	119.84
1	60	143	ARG	NE-CZ-NH2	8.28	126.65	119.20
1	8k	92	GLU	C-N-CA	8.28	130.19	119.84
1	dG	194	ALA	O-C-N	-8.28	112.78	122.89
1	gM	96	MET	N-CA-C	8.28	122.92	111.74
1	h7	102	SER	CA-C-N	8.28	131.38	120.28
1	h7	102	SER	C-N-CA	8.28	131.38	120.28
1	i1	115	ILE	CA-C-N	8.28	129.17	119.98
1	i1	115	ILE	C-N-CA	8.28	129.17	119.98
1	j3	116	GLY	O-C-N	-8.28	114.23	122.18
1	l9	29	GLU	N-CA-C	8.28	119.93	111.07
1	lH	178	SER	CA-C-N	8.28	131.73	120.38
1	lH	178	SER	C-N-CA	8.28	131.73	120.38
1	lM	150	ILE	O-C-N	-8.28	113.84	121.87
1	35	213	GLU	O-C-N	-8.28	113.54	122.07
1	43	62	HIS	N-CA-C	8.28	122.56	111.30
1	7X	87	HIS	CA-C-N	8.28	131.21	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7X	87	HIS	C-N-CA	8.28	131.21	120.44
1	8k	92	GLU	CA-C-N	8.28	130.19	119.84
1	eu	67	GLN	N-CA-C	8.28	120.31	111.28
1	d	112	GLN	N-CA-C	8.28	120.31	111.28
1	v	167	ARG	NE-CZ-NH1	8.28	129.78	121.50
1	aL	88	ALA	N-CA-C	8.28	122.51	110.42
1	cX	139	ASN	N-CA-C	8.28	121.05	111.11
1	1x	46	GLY	CA-C-N	8.28	134.48	121.56
1	1x	46	GLY	C-N-CA	8.28	134.48	121.56
1	fP	197	ASP	CA-CB-CG	8.28	120.88	112.60
1	a	143	ARG	NE-CZ-NH1	8.28	129.78	121.50
1	1C	48	THR	O-C-N	-8.28	112.83	121.60
1	gz	65	ALA	CA-C-N	8.28	131.20	120.44
1	gz	65	ALA	C-N-CA	8.28	131.20	120.44
1	gG	68	MET	N-CA-C	8.28	120.08	111.14
1	h2	98	GLU	CA-C-O	-8.28	112.39	119.76
1	je	182	LYS	N-CA-C	8.28	120.31	111.28
1	ku	143	ARG	CA-C-N	8.28	131.38	120.28
1	ku	143	ARG	C-N-CA	8.28	131.38	120.28
1	ky	212	GLU	N-CA-CB	-8.28	97.95	110.12
1	lo	23	TRP	O-C-N	-8.28	112.71	122.15
1	3j	32	PHE	N-CA-C	-8.28	101.27	112.94
1	6v	222	GLY	N-CA-C	8.28	121.44	112.33
1	7T	188	THR	CA-C-N	8.28	131.72	120.38
1	7T	188	THR	C-N-CA	8.28	131.72	120.38
1	95	115	ILE	CA-C-N	8.28	129.13	119.94
1	dc	208	ALA	CA-C-O	8.28	131.25	121.40
1	jb	203	LYS	O-C-N	-8.28	113.34	122.12
1	jd	82	ARG	NE-CZ-NH1	8.28	129.78	121.50
1	1V	167	ARG	NE-CZ-NH2	8.28	126.65	119.20
1	jY	12	HIS	CE1-NE2-CD2	-8.28	100.72	109.00
1	k7	100	ARG	NE-CZ-NH2	8.28	126.65	119.20
1	5K	193	ASN	OD1-CG-ND2	-8.28	114.32	122.60
1	70	164	TYR	O-C-N	-8.28	112.71	122.15
1	79	98	GLU	CA-C-N	8.28	128.79	119.93
1	79	98	GLU	C-N-CA	8.28	128.79	119.93
1	8G	21	ASN	CA-CB-CG	8.28	120.88	112.60
1	8L	199	LYS	N-CA-C	8.28	120.30	111.28
1	95	115	ILE	C-N-CA	8.28	129.13	119.94
1	8Y	172	LEU	CA-C-N	8.28	131.72	120.54
1	8Y	172	LEU	C-N-CA	8.28	131.72	120.54
1	c4	17	PRO	CA-C-N	8.28	132.04	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c4	17	PRO	C-N-CA	8.28	132.04	120.29
1	dh	230	VAL	CA-C-O	-8.28	113.06	121.59
1	1k	37	ILE	N-CA-C	8.28	123.02	112.67
1	dS	37	ILE	CA-C-O	-8.28	113.14	118.69
1	eW	123	PRO	N-CA-C	8.28	124.75	111.26
1	eX	39	MET	CA-C-N	8.28	131.37	120.28
1	eX	39	MET	C-N-CA	8.28	131.37	120.28
1	p	69	LEU	O-C-N	8.28	130.90	122.12
1	2	169	TYR	N-CA-C	8.28	120.31	111.28
1	C	22	ALA	O-C-N	-8.28	112.71	122.15
1	K	66	MET	N-CA-C	8.28	120.08	111.14
1	hX	45	GLU	CA-C-O	8.28	128.66	120.88
1	k9	215	MET	N-CA-C	8.28	122.64	112.54
1	kM	47	ALA	CA-C-O	8.28	130.48	121.05
1	kY	115	ILE	CA-C-N	8.28	129.13	119.94
1	kY	115	ILE	C-N-CA	8.28	129.13	119.94
1	l7	133	TRP	CA-C-N	8.28	130.99	120.56
1	l7	133	TRP	C-N-CA	8.28	130.99	120.56
1	lJ	97	ARG	CA-C-O	-8.28	112.54	121.56
1	35	88	ALA	N-CA-C	8.28	123.25	110.42
1	3E	146	SER	CA-C-N	8.28	130.19	119.84
1	3E	146	SER	C-N-CA	8.28	130.19	119.84
1	6n	201	ILE	CA-CB-CG1	8.28	124.47	110.40
1	de	202	LEU	N-CA-CB	8.28	122.29	110.12
1	lz	37	ILE	N-CA-CB	-8.28	105.29	110.50
1	3t	203	LYS	CA-C-O	8.28	129.45	120.10
1	43	113	GLU	N-CA-C	8.28	120.30	111.28
1	4A	110	THR	N-CA-C	8.28	121.27	110.43
1	5L	10	MET	N-CA-C	8.28	121.00	110.24
1	6a	82	ARG	NE-CZ-NH1	8.28	129.78	121.50
1	7j	213	GLU	CA-C-O	-8.28	112.13	120.82
1	8d	143	ARG	NE-CZ-NH2	-8.28	111.75	119.20
1	8e	126	VAL	N-CA-C	8.28	119.06	110.62
1	8N	55	MET	CA-C-O	8.28	129.51	120.82
1	e7	100	ARG	NH1-CZ-NH2	-8.28	108.54	119.30
1	7k	21	ASN	N-CA-C	8.28	120.30	111.28
1	8l	82	ARG	NE-CZ-NH2	-8.28	111.75	119.20
1	9b	100	ARG	CA-C-N	8.28	130.73	120.22
1	9b	100	ARG	C-N-CA	8.28	130.73	120.22
1	bq	130	TYR	N-CA-C	8.28	120.30	111.28
1	c0	167	ARG	NH1-CZ-NH2	-8.28	108.54	119.30
1	dd	5	ASN	OD1-CG-ND2	-8.28	114.32	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dj	192	GLN	N-CA-C	8.28	121.23	111.71
1	dw	62	HIS	CA-CB-CG	8.28	122.08	113.80
1	dZ	170	LYS	N-CA-C	8.28	120.08	111.14
1	hy	5	ASN	OD1-CG-ND2	-8.27	114.33	122.60
1	i6	114	GLN	N-CA-C	8.27	119.92	111.07
1	if	131	LYS	N-CA-C	8.27	120.30	111.28
1	ir	103	ASP	CA-C-N	8.27	131.79	120.46
1	ir	103	ASP	C-N-CA	8.27	131.79	120.46
1	iG	73	ILE	N-CA-C	8.27	119.06	110.62
1	iX	121	ASN	OD1-CG-ND2	8.27	130.87	122.60
1	l0	143	ARG	NH1-CZ-NH2	-8.27	108.55	119.30
1	ls	91	ILE	O-C-N	-8.27	114.10	122.62
1	2L	189	LEU	N-CA-C	8.27	120.30	111.28
1	3k	98	GLU	CA-C-O	-8.27	111.79	120.23
1	bz	89	GLY	CA-C-N	8.27	130.18	119.84
1	bz	89	GLY	C-N-CA	8.27	130.18	119.84
1	l1	5	ASN	N-CA-CB	8.27	122.55	110.06
1	l1	84	HIS	CB-CA-C	-8.27	99.05	110.13
1	2m	12	HIS	CE1-NE2-CD2	-8.27	100.73	109.00
1	2z	177	ALA	O-C-N	-8.27	113.42	122.85
1	3b	63	GLN	N-CA-C	8.27	119.92	111.07
1	3Z	153	ILE	CA-C-O	8.27	131.12	120.78
1	5j	187	GLU	N-CA-C	8.27	120.30	111.28
1	7O	32	PHE	CA-CB-CG	-8.27	105.53	113.80
1	7Q	36	VAL	CA-C-N	8.27	126.95	120.33
1	7Q	36	VAL	C-N-CA	8.27	126.95	120.33
1	8W	226	HIS	O-C-N	-8.27	113.79	123.22
1	9Y	164	TYR	N-CA-C	8.27	119.92	111.07
1	ce	165	VAL	N-CA-C	8.27	119.05	110.36
1	cf	177	ALA	O-C-N	-8.27	111.58	122.59
1	de	175	GLU	O-C-N	-8.27	112.69	122.87
1	en	34	PRO	CA-C-N	8.27	131.37	120.28
1	en	34	PRO	C-N-CA	8.27	131.37	120.28
1	I	138	LEU	O-C-N	-8.27	113.35	122.12
1	X	144	MET	CA-C-O	-8.27	111.78	120.55
1	lt	169	TYR	N-CA-C	8.27	120.30	111.28
1	2a	75	GLU	N-CA-C	8.27	120.30	111.28
1	4C	124	ILE	N-CA-C	8.27	116.11	107.76
1	5H	124	ILE	O-C-N	-8.27	115.68	121.55
1	64	69	LEU	CA-C-O	8.27	129.19	120.42
1	7f	194	ALA	N-CA-C	8.27	122.22	110.23
1	9b	98	GLU	CA-C-O	-8.27	113.09	119.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	47	ALA	N-CA-C	8.27	122.88	110.64
1	a7	33	SER	CA-C-N	8.27	127.91	119.56
1	a7	33	SER	C-N-CA	8.27	127.91	119.56
1	au	162	ARG	NE-CZ-NH1	8.27	129.77	121.50
1	bj	181	VAL	O-C-N	-8.27	113.31	121.83
1	cu	113	GLU	CA-C-O	8.27	129.22	120.70
1	1l	121	ASN	OD1-CG-ND2	-8.27	114.33	122.60
1	ew	181	VAL	N-CA-C	8.27	120.05	110.62
1	j4	113	GLU	N-CA-C	8.27	120.29	111.28
1	jZ	62	HIS	ND1-CG-CD2	8.27	114.37	106.10
1	ke	167	ARG	NE-CZ-NH2	8.27	126.64	119.20
1	58	98	GLU	CA-C-O	-8.27	111.98	119.75
1	J	89	GLY	CA-C-N	8.27	128.78	119.93
1	kX	37	ILE	N-CA-C	8.27	124.60	112.61
1	l5	87	HIS	N-CA-CB	8.27	124.11	110.63
1	2n	110	THR	CA-C-N	8.27	131.71	120.38
1	2n	110	THR	C-N-CA	8.27	131.71	120.38
1	4w	174	ALA	N-CA-C	8.27	120.29	111.28
1	4Z	223	GLY	CA-C-N	8.27	128.34	119.90
1	4Z	223	GLY	C-N-CA	8.27	128.34	119.90
1	5r	48	THR	N-CA-CB	8.27	119.33	109.74
1	5E	178	SER	N-CA-CB	8.27	122.08	110.26
1	6a	130	TYR	CA-C-N	8.27	131.19	120.44
1	6a	130	TYR	C-N-CA	8.27	131.19	120.44
1	80	143	ARG	NE-CZ-NH1	8.27	129.77	121.50
1	8e	180	GLU	CA-C-N	8.27	130.98	120.56
1	8e	180	GLU	C-N-CA	8.27	130.98	120.56
1	8A	18	ARG	CA-C-N	8.27	131.71	120.54
1	8A	18	ARG	C-N-CA	8.27	131.71	120.54
1	8X	11	VAL	O-C-N	-8.27	114.70	123.14
1	9w	36	VAL	CA-C-N	8.27	125.45	120.24
1	9w	36	VAL	C-N-CA	8.27	125.45	120.24
1	a2	34	PRO	N-CA-CB	8.27	111.75	103.48
1	J	89	GLY	C-N-CA	8.27	128.78	119.93
1	bG	70	LYS	N-CA-C	8.27	120.29	111.28
1	dv	78	ALA	CA-C-N	8.27	132.03	120.29
1	dv	78	ALA	C-N-CA	8.27	132.03	120.29
1	gZ	166	ASP	CA-CB-CG	8.27	120.87	112.60
1	h3	86	VAL	CB-CA-C	-8.27	103.04	111.80
1	hR	203	LYS	N-CA-C	8.27	121.03	111.11
1	hW	230	VAL	O-C-N	-8.27	113.87	122.63
1	ib	168	PHE	N-CA-C	8.27	119.92	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gx	13	GLN	N-CA-C	8.27	122.94	109.72
1	hA	159	GLU	CA-C-O	-8.27	113.09	119.46
1	ir	28	GLU	N-CA-C	8.27	120.37	111.36
1	it	154	ARG	CA-C-N	8.27	132.52	120.95
1	it	154	ARG	C-N-CA	8.27	132.52	120.95
1	iL	100	ARG	CA-C-N	8.27	129.33	119.99
1	iL	100	ARG	C-N-CA	8.27	129.33	119.99
1	ki	121	ASN	CA-CB-CG	8.27	120.87	112.60
1	kA	146	SER	CA-C-O	-8.27	110.32	118.34
1	lq	48	THR	N-CA-CB	8.27	119.33	109.74
1	6C	206	GLY	CA-C-N	8.27	130.17	119.84
1	el	213	GLU	CA-C-O	-8.27	111.66	120.42
1	eE	210	THR	CA-C-N	8.27	131.19	120.44
1	jd	57	ASN	CA-CB-CG	-8.27	104.33	112.60
1	jD	25	LYS	N-CA-C	8.27	121.03	111.11
1	1Z	206	GLY	CA-C-N	8.27	127.91	119.56
1	1Z	206	GLY	C-N-CA	8.27	127.91	119.56
1	kV	229	ARG	NE-CZ-NH2	-8.27	111.76	119.20
1	2r	52	LEU	N-CA-C	8.27	120.29	111.28
1	2s	132	ARG	N-CA-C	8.27	119.92	111.07
1	2t	114	GLN	CA-C-O	-8.27	111.66	120.42
1	3w	65	ALA	N-CA-C	8.27	119.91	111.07
1	3M	47	ALA	N-CA-C	8.27	122.36	109.96
1	6C	206	GLY	C-N-CA	8.27	130.17	119.84
1	eE	210	THR	C-N-CA	8.27	131.19	120.44
1	4Y	182	LYS	CA-C-N	8.27	131.70	120.54
1	4Y	182	LYS	C-N-CA	8.27	131.70	120.54
1	60	143	ARG	N-CA-C	8.27	120.29	111.28
1	8q	166	ASP	CB-CA-C	8.27	124.06	110.92
1	ag	21	ASN	CA-CB-CG	-8.27	104.33	112.60
1	b1	162	ARG	N-CA-C	8.27	121.33	111.33
1	b3	140	LYS	N-CA-C	8.27	121.21	111.71
1	bG	166	ASP	CA-C-N	8.27	131.19	120.44
1	bG	166	ASP	C-N-CA	8.27	131.19	120.44
1	bI	82	ARG	NE-CZ-NH1	8.27	129.76	121.50
1	cJ	143	ARG	NE-CZ-NH1	8.27	129.77	121.50
1	2	226	HIS	CA-CB-CG	-8.27	105.53	113.80
1	gG	78	ALA	N-CA-C	8.26	120.37	111.36
1	gP	195	ASN	OD1-CG-ND2	-8.26	114.34	122.60
1	kk	187	GLU	N-CA-C	8.26	120.29	111.28
1	kF	75	GLU	N-CA-C	8.26	120.29	111.28
1	ld	82	ARG	CA-C-N	8.26	133.29	120.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9L	91	ILE	CA-CB-CG1	8.26	124.45	110.40
1	h3	92	GLU	O-C-N	-8.26	112.83	120.51
1	hi	90	PRO	CA-C-O	-8.26	111.97	121.56
1	ld	82	ARG	C-N-CA	8.26	133.29	120.89
1	2a	64	ALA	O-C-N	-8.26	112.73	122.15
1	4X	182	LYS	CA-C-O	8.26	129.31	120.55
1	6Z	126	VAL	O-C-N	-8.26	113.52	121.87
1	fh	63	GLN	OE1-CD-NE2	-8.26	114.34	122.60
1	i7	112	GLN	CA-C-O	8.26	129.55	120.63
1	iq	64	ALA	CA-C-N	8.26	132.02	120.29
1	iq	64	ALA	C-N-CA	8.26	132.02	120.29
1	iy	159	GLU	CA-C-O	-8.26	112.89	119.66
1	kD	224	PRO	CA-C-O	-8.26	111.98	121.56
1	l1	90	PRO	CA-C-O	-8.26	112.02	121.36
1	5C	195	ASN	CA-C-O	-8.26	111.54	119.80
1	64	24	VAL	CB-CA-C	8.26	124.97	112.16
1	5G	192	GLN	N-CA-C	8.26	120.28	111.28
1	67	199	LYS	O-C-N	-8.26	113.36	122.12
1	6B	195	ASN	CA-C-O	-8.26	111.35	120.69
1	8u	126	VAL	CA-C-N	8.26	128.95	119.94
1	8u	126	VAL	C-N-CA	8.26	128.95	119.94
1	9r	55	MET	N-CA-C	8.26	120.29	111.28
1	9G	104	ILE	N-CA-C	8.26	119.05	110.62
1	bg	211	LEU	CA-C-N	8.26	131.35	120.28
1	bg	211	LEU	C-N-CA	8.26	131.35	120.28
1	bP	55	MET	CA-C-O	8.26	129.31	120.55
1	c2	167	ARG	CA-C-N	8.26	132.28	120.79
1	c2	167	ARG	C-N-CA	8.26	132.28	120.79
1	da	134	ILE	N-CA-CB	8.26	119.68	110.51
1	dc	177	ALA	N-CA-C	8.26	120.98	110.24
1	dT	62	HIS	CA-CB-CG	8.26	122.06	113.80
1	fB	153	ILE	O-C-N	-8.26	114.78	122.79
1	fW	192	GLN	OE1-CD-NE2	-8.26	114.34	122.60
1	5	195	ASN	CA-CB-CG	8.26	120.86	112.60
1	1I	164	TYR	CA-C-N	8.26	130.97	120.56
1	1I	164	TYR	C-N-CA	8.26	130.97	120.56
1	hG	90	PRO	CA-C-N	8.26	131.89	120.49
1	hG	90	PRO	C-N-CA	8.26	131.89	120.49
1	1Q	95	GLN	O-C-N	-8.26	112.89	122.97
1	jR	223	GLY	CA-C-N	8.26	127.95	119.19
1	jR	223	GLY	C-N-CA	8.26	127.95	119.19
1	kY	182	LYS	N-CA-C	8.26	120.28	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	162	ARG	NE-CZ-NH1	8.26	129.76	121.50
1	lj	89	GLY	CA-C-N	8.26	128.32	119.89
1	lj	89	GLY	C-N-CA	8.26	128.32	119.89
1	lk	78	ALA	N-CA-C	8.26	120.36	111.36
1	2y	82	ARG	CA-C-N	8.26	131.35	120.28
1	2y	82	ARG	C-N-CA	8.26	131.35	120.28
1	4k	69	LEU	O-C-N	-8.26	113.56	122.07
1	Z	193	ASN	CA-CB-CG	8.26	120.86	112.60
1	lG	106	GLY	CA-C-N	8.26	131.35	120.28
1	lG	106	GLY	C-N-CA	8.26	131.35	120.28
1	2c	86	VAL	N-CA-C	8.26	119.62	109.30
1	2j	96	MET	O-C-N	-8.26	113.69	122.94
1	2J	87	HIS	CA-C-N	8.26	132.02	120.29
1	2J	87	HIS	C-N-CA	8.26	132.02	120.29
1	47	226	HIS	CE1-NE2-CD2	-8.26	100.74	109.00
1	4j	96	MET	N-CA-C	8.26	121.91	110.35
1	4U	158	LYS	N-CA-C	-8.26	103.34	113.50
1	4P	42	ALA	CA-C-N	8.26	131.35	120.28
1	4P	42	ALA	C-N-CA	8.26	131.35	120.28
1	4V	53	ASN	CA-CB-CG	-8.26	104.34	112.60
1	5I	134	ILE	CA-C-N	8.26	132.15	120.42
1	5I	134	ILE	C-N-CA	8.26	132.15	120.42
1	6O	78	ALA	O-C-N	-8.26	113.36	122.12
1	88	72	THR	N-CA-C	8.26	120.28	111.28
1	9x	171	THR	CA-C-O	8.26	129.17	120.42
1	11	159	GLU	CA-C-N	8.26	128.77	119.93
1	11	159	GLU	C-N-CA	8.26	128.77	119.93
1	aG	229	ARG	NE-CZ-NH1	8.26	129.76	121.50
1	bS	167	ARG	CA-C-O	-8.26	109.94	119.60
1	cg	139	ASN	O-C-N	8.26	130.68	122.09
1	cV	213	GLU	N-CA-C	8.26	119.91	111.07
1	cY	124	ILE	CA-C-O	8.26	123.75	119.12
1	dD	195	ASN	CA-CB-CG	8.26	120.86	112.60
1	gi	32	PHE	CA-CB-CG	-8.26	105.54	113.80
1	hn	93	PRO	CA-C-N	8.26	134.52	122.46
1	hn	93	PRO	C-N-CA	8.26	134.52	122.46
1	hR	8	GLY	N-CA-C	8.26	123.32	112.25
1	kH	28	GLU	N-CA-C	8.26	121.21	111.71
1	2b	113	GLU	N-CA-C	8.26	120.28	111.28
1	2J	37	ILE	O-C-N	-8.26	114.21	120.07
1	3q	22	ALA	N-CA-C	8.26	120.28	111.28
1	62	62	HIS	CA-CB-CG	8.26	122.06	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h7	84	HIS	ND1-CE1-NE2	8.26	116.66	108.40
1	jU	28	GLU	N-CA-C	8.26	121.32	111.33
1	2L	118	MET	N-CA-C	8.26	121.20	111.71
1	3c	138	LEU	CA-C-N	8.26	131.69	120.38
1	3c	138	LEU	C-N-CA	8.26	131.69	120.38
1	3A	27	VAL	O-C-N	-8.26	113.86	121.87
1	4k	171	THR	CA-C-N	8.26	131.35	120.28
1	4k	171	THR	C-N-CA	8.26	131.35	120.28
1	6o	163	ASP	CA-C-N	8.26	131.34	120.28
1	6o	163	ASP	C-N-CA	8.26	131.34	120.28
1	6D	28	GLU	N-CA-C	8.26	119.91	111.07
1	8p	53	ASN	CA-CB-CG	-8.26	104.34	112.60
1	8M	188	THR	CA-C-N	8.26	131.69	120.38
1	8M	188	THR	C-N-CA	8.26	131.69	120.38
1	9A	45	GLU	N-CA-C	8.26	121.21	111.71
1	aY	133	TRP	CA-C-N	8.26	130.96	120.56
1	aY	133	TRP	C-N-CA	8.26	130.96	120.56
1	3O	5	ASN	CA-CB-CG	-8.26	104.34	112.60
1	5x	169	TYR	O-C-N	-8.26	112.74	122.15
1	62	36	VAL	N-CA-C	8.26	119.03	110.36
1	az	219	GLN	CA-C-N	8.26	128.18	120.34
1	az	219	GLN	C-N-CA	8.26	128.18	120.34
1	aA	9	GLN	OE1-CD-NE2	-8.26	114.34	122.60
1	ck	57	ASN	CA-CB-CG	-8.26	104.34	112.60
1	du	197	ASP	N-CA-C	8.26	119.90	111.07
1	dO	50	GLN	CA-C-O	8.26	129.30	120.55
1	g7	100	ARG	NE-CZ-NH1	8.26	129.76	121.50
1	e6	80	TRP	CB-CG-CD2	8.26	138.36	126.80
1	fS	182	LYS	CA-C-O	8.26	129.30	120.55
1	2	128	GLU	CA-C-O	-8.26	111.80	120.55
1	fU	173	ARG	CA-C-O	8.26	129.46	119.97
1	H	9	GLN	N-CA-C	8.26	121.58	110.35
1	hl	7	GLN	CB-CG-CD	8.25	126.63	112.60
1	7u	2	ILE	O-C-N	-8.25	113.87	123.03
1	li	87	HIS	CE1-NE2-CD2	-8.25	100.75	109.00
1	lw	77	ALA	N-CA-C	8.25	122.63	112.23
1	2C	120	HIS	O-C-N	-8.25	112.82	122.89
1	6m	137	GLY	CA-C-N	8.25	131.34	120.28
1	6m	137	GLY	C-N-CA	8.25	131.34	120.28
1	77	156	GLY	CA-C-N	8.25	127.94	119.19
1	77	156	GLY	C-N-CA	8.25	127.94	119.19
1	9U	113	GLU	CA-C-O	8.25	129.30	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Q	203	LYS	CA-C-O	-8.25	111.80	120.55
1	7E	117	TRP	N-CA-C	8.25	120.28	111.28
1	8D	229	ARG	NE-CZ-NH2	-8.25	111.77	119.20
1	9d	82	ARG	N-CA-C	8.25	119.90	111.07
1	bt	53	ASN	CA-C-O	8.25	129.30	120.55
1	8b	87	HIS	CA-C-N	8.25	131.66	120.44
1	8b	87	HIS	C-N-CA	8.25	131.66	120.44
1	8h	188	THR	CA-C-N	8.25	131.69	120.38
1	8h	188	THR	C-N-CA	8.25	131.69	120.38
1	8T	209	ALA	CA-C-O	8.25	130.30	121.55
1	cN	36	VAL	CA-C-N	8.25	128.35	120.43
1	cN	36	VAL	C-N-CA	8.25	128.35	120.43
1	cP	63	GLN	N-CA-C	8.25	121.32	111.33
1	d1	89	GLY	O-C-N	-8.25	113.52	121.77
1	dg	82	ARG	NE-CZ-NH2	-8.25	111.77	119.20
1	dC	142	VAL	CA-C-N	8.25	131.69	120.38
1	dC	142	VAL	C-N-CA	8.25	131.69	120.38
1	gI	89	GLY	CA-C-N	8.25	130.15	119.84
1	gI	89	GLY	C-N-CA	8.25	130.15	119.84
1	hF	32	PHE	N-CA-C	-8.25	102.24	113.30
1	j4	120	HIS	CE1-NE2-CD2	-8.25	100.75	109.00
1	ja	138	LEU	CA-C-N	8.25	131.34	120.28
1	ja	138	LEU	C-N-CA	8.25	131.34	120.28
1	jW	89	GLY	CA-C-O	-8.25	112.96	121.62
1	7U	130	TYR	CA-C-O	8.25	129.42	120.10
1	2k	41	SER	CA-C-N	8.25	132.85	120.31
1	2k	41	SER	C-N-CA	8.25	132.85	120.31
1	2u	137	GLY	N-CA-C	8.25	123.33	112.77
1	3x	201	ILE	N-CA-C	8.25	119.03	110.62
1	4v	167	ARG	N-CA-C	8.25	120.27	111.28
1	7z	110	THR	CA-C-O	-8.25	111.79	121.44
1	8u	63	GLN	N-CA-C	8.25	120.27	111.28
1	8Q	196	PRO	N-CA-CB	8.25	111.91	103.25
1	9f	34	PRO	CA-C-N	8.25	131.33	120.28
1	9f	34	PRO	C-N-CA	8.25	131.33	120.28
1	9H	48	THR	CA-C-N	8.25	130.15	119.84
1	9H	48	THR	C-N-CA	8.25	130.15	119.84
1	ae	142	VAL	N-CA-C	8.25	119.04	110.62
1	aG	132	ARG	N-CA-C	8.25	121.20	111.71
1	b5	56	LEU	N-CA-C	8.25	120.27	111.28
1	bA	197	ASP	CA-C-N	8.25	131.34	120.28
1	bA	197	ASP	C-N-CA	8.25	131.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	187	GLU	CA-C-N	8.25	131.16	120.44
1	d8	187	GLU	C-N-CA	8.25	131.16	120.44
1	eA	155	GLN	N-CA-CB	8.25	122.14	109.85
1	fF	12	HIS	O-C-N	-8.25	113.59	123.16
1	fM	35	GLU	CA-C-N	8.25	133.61	120.82
1	dr	77	ALA	N-CA-C	8.25	120.27	111.28
1	fh	33	SER	CA-C-N	8.25	127.97	119.56
1	fh	33	SER	C-N-CA	8.25	127.97	119.56
1	fk	20	LEU	CA-C-N	8.25	131.16	120.44
1	fk	20	LEU	C-N-CA	8.25	131.16	120.44
1	fM	35	GLU	C-N-CA	8.25	133.61	120.82
1	K	189	LEU	CA-C-O	8.25	129.29	120.55
1	gh	124	ILE	CA-C-O	-8.25	114.28	119.15
1	gu	20	LEU	CA-C-N	8.25	132.00	120.29
1	gu	20	LEU	C-N-CA	8.25	132.00	120.29
1	gO	72	THR	N-CA-C	8.25	121.19	111.71
1	h7	87	HIS	CA-CB-CG	8.25	122.05	113.80
1	hH	214	MET	O-C-N	-8.25	113.38	122.12
1	48	130	TYR	N-CA-C	8.25	120.35	111.36
1	4r	15	ILE	N-CA-C	8.25	119.17	108.12
1	5w	15	ILE	O-C-N	-8.25	113.83	122.66
1	6i	221	VAL	O-C-N	-8.25	113.54	121.87
1	7j	73	ILE	CA-C-O	-8.25	112.37	120.95
1	ap	208	ALA	CA-C-N	8.25	133.21	120.75
1	ap	208	ALA	C-N-CA	8.25	133.21	120.75
1	aH	43	LEU	N-CA-CB	-8.25	96.70	110.39
1	bN	67	GLN	N-CA-C	8.25	121.39	111.82
1	hA	159	GLU	CA-C-N	8.25	128.30	119.89
1	hA	159	GLU	C-N-CA	8.25	128.30	119.89
1	im	185	MET	N-CA-C	8.25	120.27	111.28
1	1S	4	GLN	N-CA-C	8.25	122.48	110.28
1	ks	139	ASN	N-CA-C	8.25	120.27	111.28
1	kZ	198	CYS	CA-C-O	-8.25	111.68	120.42
1	2i	125	PRO	N-CA-CB	-8.25	97.28	102.81
1	38	151	LEU	N-CA-C	8.25	120.27	111.28
1	7W	45	GLU	N-CA-C	8.25	120.27	111.28
1	8x	69	LEU	CA-C-O	8.25	129.19	120.70
1	8A	136	LEU	CA-C-N	8.25	129.31	119.99
1	8A	136	LEU	C-N-CA	8.25	129.31	119.99
1	a8	156	GLY	CA-C-O	-8.25	114.46	122.46
1	aa	136	LEU	CA-C-O	8.25	129.54	120.63
1	bz	122	PRO	CA-C-N	8.25	130.15	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	122	PRO	C-N-CA	8.25	130.15	119.84
1	1d	185	MET	CA-C-N	8.25	131.68	120.38
1	1d	185	MET	C-N-CA	8.25	131.68	120.38
1	cr	129	ILE	CA-C-O	8.25	130.20	121.05
1	cE	26	VAL	CA-C-N	8.25	132.13	120.42
1	cE	26	VAL	C-N-CA	8.25	132.13	120.42
1	df	131	LYS	N-CA-C	8.25	119.89	111.07
1	cR	121	ASN	CA-CB-CG	-8.25	104.35	112.60
1	dx	132	ARG	NE-CZ-NH2	-8.25	111.78	119.20
1	eq	141	ILE	O-C-N	-8.25	113.34	121.83
1	fv	179	GLN	OE1-CD-NE2	-8.25	114.35	122.60
1	g0	223	GLY	O-C-N	-8.25	113.52	121.77
1	g6	5	ASN	CA-CB-CG	8.25	120.85	112.60
1	1F	161	PHE	CA-CB-CG	-8.24	105.56	113.80
1	h3	32	PHE	CA-CB-CG	-8.24	105.56	113.80
1	hj	58	THR	CA-CB-OG1	8.24	121.97	109.60
1	ho	42	ALA	N-CA-C	8.24	119.89	111.07
1	hQ	103	ASP	CA-C-N	8.24	131.75	120.46
1	hQ	103	ASP	C-N-CA	8.24	131.75	120.46
1	iT	80	TRP	N-CA-C	8.24	120.27	111.28
1	ji	166	ASP	N-CA-C	8.24	120.04	111.14
1	kd	163	ASP	N-CA-C	8.24	120.27	111.28
1	kF	81	ASP	N-CA-C	8.24	121.31	111.33
1	3O	70	LYS	N-CA-C	8.24	120.27	111.28
1	6a	162	ARG	NE-CZ-NH2	-8.24	111.78	119.20
1	6e	76	GLU	CA-C-N	8.24	131.33	120.28
1	6e	76	GLU	C-N-CA	8.24	131.33	120.28
1	8t	162	ARG	N-CA-C	8.24	119.89	111.07
1	cd	121	ASN	O-C-N	-8.24	114.05	121.39
1	eY	63	GLN	N-CA-C	8.24	121.00	111.11
1	gc	72	THR	CA-CB-CG2	8.24	124.51	110.50
1	1E	47	ALA	N-CA-C	8.24	122.18	110.23
1	i5	94	GLY	N-CA-C	8.24	124.41	113.37
1	jj	210	THR	O-C-N	-8.24	112.67	122.81
1	2D	74	ASN	CA-CB-CG	-8.24	104.36	112.60
1	3B	82	ARG	CA-C-N	8.24	131.16	120.44
1	3B	82	ARG	C-N-CA	8.24	131.16	120.44
1	3W	48	THR	CA-C-O	-8.24	111.97	120.96
1	5h	15	ILE	O-C-N	-8.24	113.66	122.81
1	7o	134	ILE	N-CA-C	8.24	118.30	110.30
1	8U	88	ALA	N-CA-C	8.24	121.56	110.35
1	9I	64	ALA	N-CA-C	8.24	119.89	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9P	83	LEU	N-CA-C	8.24	121.19	111.71
1	Z	192	GLN	N-CA-C	8.24	120.27	111.28
1	18	40	PHE	O-C-N	-8.24	113.38	122.12
1	cd	15	ILE	N-CA-CB	8.24	120.45	110.31
1	cP	177	ALA	N-CA-C	8.24	122.12	110.50
1	cR	136	LEU	CA-C-N	8.24	129.31	119.99
1	cR	136	LEU	C-N-CA	8.24	129.31	119.99
1	eC	29	GLU	N-CA-C	8.24	120.04	111.14
1	1t	50	GLN	OE1-CD-NE2	-8.24	114.36	122.60
1	fT	211	LEU	CA-C-O	8.24	129.72	120.90
1	fF	200	THR	CA-C-N	8.24	130.94	120.56
1	fF	200	THR	C-N-CA	8.24	130.94	120.56
1	hC	79	GLU	CA-C-N	8.24	131.15	120.44
1	hC	79	GLU	C-N-CA	8.24	131.15	120.44
1	3m	66	MET	N-CA-C	8.24	120.26	111.28
1	4U	195	ASN	CA-C-N	8.24	128.71	119.32
1	9i	167	ARG	CA-C-N	8.24	131.67	120.38
1	jp	184	TRP	CA-C-O	8.24	129.28	120.55
1	jK	115	ILE	CA-C-N	8.24	129.13	119.98
1	jK	115	ILE	C-N-CA	8.24	129.13	119.98
1	4m	179	GLN	CA-C-N	8.24	131.67	120.38
1	4m	179	GLN	C-N-CA	8.24	131.67	120.38
1	4U	195	ASN	C-N-CA	8.24	128.71	119.32
1	9a	25	LYS	O-C-N	-8.24	112.75	122.15
1	9i	167	ARG	C-N-CA	8.24	131.67	120.38
1	eQ	199	LYS	CA-C-N	8.24	131.67	120.54
1	eQ	199	LYS	C-N-CA	8.24	131.67	120.54
1	f4	20	LEU	CA-C-N	8.24	131.15	120.44
1	f4	20	LEU	C-N-CA	8.24	131.15	120.44
1	C	216	THR	CA-C-O	8.24	129.41	120.10
1	lB	230	VAL	N-CA-CB	8.24	119.51	110.53
1	93	124	ILE	CA-C-N	8.24	130.14	119.84
1	93	124	ILE	C-N-CA	8.24	130.14	119.84
1	cb	62	HIS	CA-CB-CG	-8.24	105.56	113.80
1	1x	5	ASN	CA-C-N	8.24	133.59	121.31
1	cO	178	SER	CA-C-N	8.24	131.32	120.28
1	cO	178	SER	C-N-CA	8.24	131.32	120.28
1	f0	165	VAL	N-CA-C	8.24	119.02	110.62
1	1x	5	ASN	C-N-CA	8.24	133.59	121.31
1	1v	121	ASN	OD1-CG-ND2	-8.24	114.36	122.60
1	fU	121	ASN	CB-CA-C	8.24	121.17	110.13
1	l	12	HIS	CA-CB-CG	8.24	122.04	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	121	ASN	CA-CB-CG	-8.24	104.36	112.60
1	A	200	THR	CA-C-N	8.24	130.94	120.56
1	A	200	THR	C-N-CA	8.24	130.94	120.56
1	h2	171	THR	CA-C-O	8.24	129.28	120.55
1	hN	79	GLU	CA-C-N	8.24	131.15	120.44
1	hN	79	GLU	C-N-CA	8.24	131.15	120.44
1	2o	23	TRP	CA-C-N	8.24	130.94	120.56
1	2o	23	TRP	C-N-CA	8.24	130.94	120.56
1	2w	137	GLY	N-CA-C	8.24	122.06	112.50
1	3C	229	ARG	NE-CZ-NH2	-8.24	111.79	119.20
1	jk	50	GLN	N-CA-C	8.24	120.26	111.28
1	jR	36	VAL	CA-C-N	8.24	125.43	120.24
1	jR	36	VAL	C-N-CA	8.24	125.43	120.24
1	kj	18	ARG	NE-CZ-NH1	8.24	129.74	121.50
1	4H	167	ARG	NE-CZ-NH2	-8.24	111.79	119.20
1	4I	188	THR	CA-C-N	8.24	132.24	120.79
1	4I	188	THR	C-N-CA	8.24	132.24	120.79
1	4N	112	GLN	OE1-CD-NE2	-8.24	114.36	122.60
1	59	170	LYS	N-CA-C	8.24	121.18	111.71
1	5t	132	ARG	O-C-N	-8.24	113.39	122.12
1	6n	63	GLN	N-CA-C	8.24	120.26	111.28
1	8g	84	HIS	CE1-NE2-CD2	-8.24	100.76	109.00
1	9i	160	PRO	N-CA-C	8.24	124.16	111.15
1	Z	120	HIS	O-C-N	-8.24	112.96	122.68
1	aq	82	ARG	N-CA-C	8.24	120.34	111.36
1	dD	148	THR	N-CA-C	8.24	122.35	110.24
1	ae	87	HIS	ND1-CE1-NE2	8.24	116.64	108.40
1	c6	11	VAL	O-C-N	-8.24	115.80	122.97
1	cQ	142	VAL	O-C-N	-8.24	113.84	121.91
1	dg	132	ARG	N-CA-C	8.24	119.88	111.07
1	eE	225	GLY	CA-C-N	8.24	132.51	120.90
1	eE	225	GLY	C-N-CA	8.24	132.51	120.90
1	eT	201	ILE	O-C-N	-8.24	113.70	121.94
1	fm	116	GLY	CA-C-N	8.24	131.15	120.44
1	fm	116	GLY	C-N-CA	8.24	131.15	120.44
1	fG	227	LYS	N-CA-C	8.24	120.26	111.28
1	o	36	VAL	CB-CA-C	-8.24	101.02	112.14
1	7	161	PHE	CA-CB-CG	8.24	122.04	113.80
1	ik	65	ALA	N-CA-C	8.23	120.26	111.28
1	j7	117	TRP	CA-C-N	8.23	132.83	120.31
1	j7	117	TRP	C-N-CA	8.23	132.83	120.31
1	k6	63	GLN	CA-C-N	8.23	131.52	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	35	132	ARG	NE-CZ-NH1	8.23	129.74	121.50
1	5s	143	ARG	NE-CZ-NH2	8.23	126.61	119.20
1	7N	67	GLN	O-C-N	-8.23	113.39	122.12
1	h1	66	MET	CA-C-N	8.23	131.14	120.44
1	h1	66	MET	C-N-CA	8.23	131.14	120.44
1	hB	173	ARG	NE-CZ-NH2	8.23	126.61	119.20
1	hU	15	ILE	N-CA-C	8.23	121.48	109.63
1	iN	203	LYS	CA-C-O	8.23	129.28	120.55
1	k6	63	GLN	C-N-CA	8.23	131.52	120.65
1	le	155	GLN	CA-C-O	-8.23	112.82	121.55
1	7a	184	TRP	N-CA-C	8.23	120.26	111.28
1	ae	22	ALA	N-CA-C	8.23	120.26	111.28
1	lu	149	SER	CA-C-N	8.23	134.12	120.62
1	lu	149	SER	C-N-CA	8.23	134.12	120.62
1	3p	116	GLY	CA-C-N	8.23	131.31	120.28
1	3p	116	GLY	C-N-CA	8.23	131.31	120.28
1	4D	166	ASP	CA-CB-CG	-8.23	104.37	112.60
1	5T	140	LYS	N-CA-C	8.23	119.88	111.07
1	5V	7	GLN	OE1-CD-NE2	-8.23	114.37	122.60
1	6j	195	ASN	CA-CB-CG	8.23	120.83	112.60
1	8b	134	ILE	O-C-N	-8.23	113.35	121.83
1	9M	216	THR	CA-CB-OG1	8.23	121.95	109.60
1	aF	7	GLN	CA-C-O	8.23	130.78	120.65
1	14	229	ARG	NE-CZ-NH2	8.23	126.61	119.20
1	1z	162	ARG	NE-CZ-NH2	-8.23	111.79	119.20
1	bv	100	ARG	CA-C-N	8.23	137.55	121.41
1	bv	100	ARG	C-N-CA	8.23	137.55	121.41
1	bA	167	ARG	NE-CZ-NH2	-8.23	111.79	119.20
1	cj	229	ARG	NH1-CZ-NH2	-8.23	108.60	119.30
1	dA	219	GLN	N-CA-CB	8.23	122.07	109.97
1	eL	20	LEU	N-CA-C	8.23	120.25	111.28
1	fI	135	ILE	O-C-N	-8.23	113.88	121.87
1	q	16	SER	CA-C-N	8.23	127.80	119.24
1	q	16	SER	C-N-CA	8.23	127.80	119.24
1	D	139	ASN	N-CA-C	8.23	119.88	111.07
1	G	188	THR	CA-C-N	8.23	132.14	120.28
1	G	188	THR	C-N-CA	8.23	132.14	120.28
1	T	72	THR	O-C-N	-8.23	113.59	122.07
1	gx	80	TRP	N-CA-C	8.23	121.29	111.33
1	hA	26	VAL	CA-C-N	8.23	130.93	120.56
1	hA	26	VAL	C-N-CA	8.23	130.93	120.56
1	iB	142	VAL	N-CA-C	8.23	119.02	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jr	200	THR	N-CA-C	8.23	120.25	111.28
1	jH	75	GLU	N-CA-C	8.23	120.03	111.14
1	kj	21	ASN	CB-CG-ND2	8.23	128.75	116.40
1	kE	51	ASP	N-CA-C	-8.23	102.25	111.14
1	lj	171	THR	N-CA-CB	8.23	122.22	110.12
1	3l	176	GLN	CA-C-N	8.23	132.43	120.82
1	3l	176	GLN	C-N-CA	8.23	132.43	120.82
1	3y	143	ARG	NE-CZ-NH2	8.23	126.61	119.20
1	aM	65	ALA	O-C-N	-8.23	113.59	122.07
1	2Q	169	TYR	N-CA-C	8.23	120.25	111.28
1	5u	147	PRO	N-CA-C	8.23	123.98	111.14
1	5B	150	ILE	N-CA-C	8.23	120.00	110.62
1	5S	125	PRO	CA-C-O	-8.23	112.39	121.77
1	9a	215	MET	N-CA-C	8.23	123.10	112.89
1	9r	92	GLU	O-C-N	-8.23	116.03	121.88
1	dI	77	ALA	N-CA-C	8.23	120.33	111.36
1	ed	129	ILE	N-CA-C	8.23	118.32	110.42
1	ez	183	ASN	N-CA-C	8.23	120.25	111.28
1	e	70	LYS	N-CA-C	8.23	120.25	111.28
1	6n	99	PRO	N-CA-CB	8.23	110.64	103.31
1	9U	101	GLY	O-C-N	-8.23	113.98	122.13
1	bN	84	HIS	CA-CB-CG	8.23	122.03	113.80
1	fp	192	GLN	N-CA-C	8.23	122.75	112.87
1	h1	152	ASP	CA-C-O	8.23	128.19	119.14
1	id	220	GLY	CA-C-N	8.23	132.35	120.91
1	id	220	GLY	C-N-CA	8.23	132.35	120.91
1	iv	116	GLY	CA-C-N	8.23	131.31	120.28
1	iv	116	GLY	C-N-CA	8.23	131.31	120.28
1	iE	33	SER	CA-C-N	8.23	129.25	120.12
1	iE	33	SER	C-N-CA	8.23	129.25	120.12
1	eQ	140	LYS	N-CA-C	8.23	120.25	111.28
1	fr	21	ASN	OD1-CG-ND2	-8.23	114.37	122.60
1	i1	159	GLU	CA-C-O	8.23	127.20	119.72
1	iZ	97	ARG	NE-CZ-NH1	8.23	129.73	121.50
1	k0	19	THR	CA-C-N	8.23	131.31	120.28
1	k0	19	THR	C-N-CA	8.23	131.31	120.28
1	kB	94	GLY	CA-C-O	8.23	128.24	118.86
1	l6	48	THR	N-CA-CB	8.23	119.28	109.74
1	le	213	GLU	CA-C-N	8.23	131.65	120.54
1	le	213	GLU	C-N-CA	8.23	131.65	120.54
1	7u	48	THR	CA-C-O	-8.23	111.66	120.88
1	1Y	169	TYR	CA-C-O	-8.23	112.18	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	92	GLU	O-C-N	-8.23	116.45	121.71
1	lK	88	ALA	N-CA-C	8.23	123.20	110.20
1	2v	116	GLY	O-C-N	-8.23	114.29	122.19
1	4l	114	GLN	N-CA-C	8.23	121.06	111.02
1	4D	217	ALA	N-CA-C	8.23	122.16	110.23
1	8d	21	ASN	CA-CB-CG	-8.23	104.37	112.60
1	9G	191	VAL	CA-C-N	8.23	131.31	120.28
1	9T	35	GLU	N-CA-C	8.23	121.17	111.71
1	a1	134	ILE	CB-CA-C	-8.23	101.03	112.14
1	ci	30	LYS	O-C-N	-8.23	112.05	122.34
1	3n	12	HIS	ND1-CE1-NE2	8.23	116.63	108.40
1	3W	98	GLU	CA-C-O	-8.23	111.39	120.69
1	59	192	GLN	N-CA-C	8.23	120.98	111.11
1	5l	183	ASN	OD1-CG-ND2	-8.23	114.37	122.60
1	79	98	GLU	CA-C-O	-8.23	113.23	119.32
1	8A	195	ASN	CA-C-N	8.23	130.13	119.84
1	ey	59	VAL	N-CA-C	8.23	119.70	108.84
1	ey	120	HIS	CA-CB-CG	8.23	122.03	113.80
1	eW	191	VAL	N-CA-C	8.23	119.03	110.72
1	7c	223	GLY	CA-C-N	8.23	128.33	119.28
1	7c	223	GLY	C-N-CA	8.23	128.33	119.28
1	8a	163	ASP	CA-C-N	8.23	131.30	120.28
1	8a	163	ASP	C-N-CA	8.23	131.30	120.28
1	8A	195	ASN	C-N-CA	8.23	130.13	119.84
1	9G	191	VAL	C-N-CA	8.23	131.31	120.28
1	8w	33	SER	CA-C-N	8.23	130.12	119.84
1	8w	33	SER	C-N-CA	8.23	130.12	119.84
1	8Z	90	PRO	N-CA-CB	8.23	111.89	103.25
1	9a	98	GLU	N-CA-C	8.23	121.59	109.42
1	9u	14	ALA	N-CA-C	8.23	122.16	110.23
1	ap	190	LEU	N-CA-C	8.23	120.25	111.28
1	dF	89	GLY	CA-C-N	8.23	128.29	119.90
1	dF	89	GLY	C-N-CA	8.23	128.29	119.90
1	d3	26	VAL	N-CA-C	-8.23	103.25	110.74
1	dJ	159	GLU	O-C-N	-8.23	112.83	121.30
1	1p	83	LEU	N-CA-C	8.23	120.25	111.28
1	eE	175	GLU	O-C-N	-8.23	112.69	122.81
1	eG	124	ILE	CA-C-N	8.23	130.12	119.84
1	eG	124	ILE	C-N-CA	8.23	130.12	119.84
1	fl	73	ILE	O-C-N	-8.23	113.89	121.87
1	u	19	THR	O-C-N	-8.23	113.40	122.12
1	fy	229	ARG	NH1-CZ-NH2	-8.23	108.61	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fT	69	LEU	CA-C-N	8.23	131.30	120.28
1	fT	69	LEU	C-N-CA	8.23	131.30	120.28
1	j	222	GLY	O-C-N	-8.23	116.29	122.71
1	gU	127	GLY	CA-C-N	8.22	131.30	120.28
1	gU	127	GLY	C-N-CA	8.22	131.30	120.28
1	iF	168	PHE	CA-C-N	8.22	131.64	120.54
1	iF	168	PHE	C-N-CA	8.22	131.64	120.54
1	2z	182	LYS	O-C-N	-8.22	112.15	122.27
1	7w	20	LEU	N-CA-C	8.22	119.87	111.07
1	8w	162	ARG	NE-CZ-NH2	-8.22	111.80	119.20
1	dK	76	GLU	N-CA-C	8.22	121.05	111.02
1	eg	199	LYS	N-CA-C	8.22	120.25	111.28
1	1K	53	ASN	N-CA-C	8.22	120.24	111.28
1	ie	43	LEU	CA-C-O	8.22	129.49	119.38
1	iP	110	THR	N-CA-CB	8.22	122.95	110.45
1	jl	103	ASP	CA-C-N	8.22	132.12	120.53
1	jl	103	ASP	C-N-CA	8.22	132.12	120.53
1	kO	64	ALA	CA-C-N	8.22	131.64	120.54
1	kO	64	ALA	C-N-CA	8.22	131.64	120.54
1	lc	199	LYS	N-CA-C	8.22	120.24	111.28
1	3e	15	ILE	N-CA-C	8.22	119.69	108.84
1	42	226	HIS	CA-C-N	8.22	133.17	120.75
1	42	226	HIS	C-N-CA	8.22	133.17	120.75
1	48	128	GLU	N-CA-C	8.22	119.87	111.07
1	4Q	70	LYS	N-CA-C	8.22	120.24	111.28
1	5K	66	MET	O-C-N	-8.22	113.60	122.07
1	7n	122	PRO	CA-C-N	8.22	130.12	119.84
1	7n	122	PRO	C-N-CA	8.22	130.12	119.84
1	fw	158	LYS	CA-C-O	8.22	129.32	119.78
1	8i	34	PRO	N-CA-C	8.22	129.41	112.47
1	8p	197	ASP	CA-CB-CG	8.22	120.82	112.60
1	8G	180	GLU	N-CA-C	8.22	119.87	111.07
1	a4	223	GLY	CA-C-N	8.22	127.87	119.56
1	a4	223	GLY	C-N-CA	8.22	127.87	119.56
1	ae	162	ARG	N-CA-C	8.22	119.87	111.07
1	du	25	LYS	CA-C-O	-8.22	111.70	120.42
1	dB	161	PHE	N-CA-C	8.22	121.17	111.71
1	dQ	125	PRO	N-CA-CB	-8.22	97.36	102.79
1	1o	100	ARG	CA-C-N	8.22	129.24	120.03
1	1o	100	ARG	C-N-CA	8.22	129.24	120.03
1	fG	206	GLY	O-C-N	-8.22	113.55	121.77
1	H	139	ASN	O-C-N	-8.22	112.16	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	50	GLN	OE1-CD-NE2	-8.22	114.38	122.60
1	gj	18	ARG	NE-CZ-NH2	-8.22	111.80	119.20
1	gN	126	VAL	N-CA-C	8.22	118.99	110.36
1	h5	97	ARG	NE-CZ-NH1	-8.22	113.28	121.50
1	hK	124	ILE	O-C-N	-8.22	113.36	120.92
1	iF	103	ASP	N-CA-C	8.22	119.87	111.07
1	iQ	175	GLU	N-CA-C	8.22	121.86	110.35
1	kM	195	ASN	CA-C-N	8.22	128.32	119.28
1	kM	195	ASN	C-N-CA	8.22	128.32	119.28
1	6Q	137	GLY	CA-C-N	8.22	131.30	120.28
1	6Q	137	GLY	C-N-CA	8.22	131.30	120.28
1	83	129	ILE	O-C-N	-8.22	113.89	121.87
1	lL	176	GLN	CA-C-N	8.22	132.49	120.90
1	lL	176	GLN	C-N-CA	8.22	132.49	120.90
1	lQ	80	TRP	CA-C-N	8.22	131.30	120.28
1	lQ	80	TRP	C-N-CA	8.22	131.30	120.28
1	2V	33	SER	O-C-N	-8.22	112.22	121.43
1	3n	141	ILE	N-CA-CB	8.22	120.17	110.55
1	3X	74	ASN	OD1-CG-ND2	-8.22	114.38	122.60
1	45	70	LYS	N-CA-C	8.22	121.17	111.71
1	4U	121	ASN	CA-C-O	-8.22	112.03	119.59
1	6r	98	GLU	CA-C-N	8.22	128.53	119.90
1	6r	98	GLU	C-N-CA	8.22	128.53	119.90
1	6B	212	GLU	CA-C-N	8.22	131.64	120.54
1	6B	212	GLU	C-N-CA	8.22	131.64	120.54
1	8k	100	ARG	CA-C-N	8.22	129.11	119.98
1	7f	55	MET	O-C-N	-8.22	113.41	122.12
1	7B	6	LEU	N-CA-C	8.22	120.24	111.28
1	8k	100	ARG	C-N-CA	8.22	129.11	119.98
1	ah	5	ASN	CA-CB-CG	8.22	120.82	112.60
1	cg	32	PHE	CA-C-N	8.22	135.80	122.48
1	eF	53	ASN	O-C-N	-8.22	113.41	122.12
1	8b	124	ILE	N-CA-C	-8.22	100.01	108.15
1	98	63	GLN	N-CA-C	8.22	120.24	111.28
1	9r	91	ILE	CA-C-O	8.22	129.56	120.85
1	cg	32	PHE	C-N-CA	8.22	135.80	122.48
1	bO	201	ILE	N-CA-C	8.22	119.00	110.62
1	eY	68	MET	CB-CA-C	8.22	124.44	110.79
1	fq	14	ALA	O-C-N	-8.22	112.86	122.89
1	fP	33	SER	CA-C-O	-8.22	112.92	119.66
1	0	92	GLU	N-CA-CB	8.22	122.44	110.03
1	gj	120	HIS	CA-CB-CG	-8.22	105.58	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gl	111	LEU	N-CA-C	8.22	120.97	111.11
1	1G	18	ARG	NE-CZ-NH2	8.22	126.60	119.20
1	hb	228	ALA	N-CA-C	8.22	122.73	111.39
1	fu	87	HIS	O-C-N	-8.22	113.67	122.96
1	gj	154	ARG	O-C-N	-8.22	112.47	123.15
1	gG	20	LEU	CA-C-N	8.22	131.96	120.29
1	gG	20	LEU	C-N-CA	8.22	131.96	120.29
1	gJ	162	ARG	NE-CZ-NH2	-8.22	111.80	119.20
1	jc	30	LYS	CA-C-N	8.22	131.62	120.44
1	jc	30	LYS	C-N-CA	8.22	131.62	120.44
1	jn	115	ILE	CA-C-N	8.22	129.06	119.94
1	jn	115	ILE	C-N-CA	8.22	129.06	119.94
1	kN	21	ASN	CA-C-O	8.22	129.13	120.42
1	jR	187	GLU	N-CA-C	8.22	120.24	111.28
1	kf	21	ASN	N-CA-C	8.22	121.27	111.33
1	ku	23	TRP	CA-C-N	8.22	131.72	120.46
1	ku	23	TRP	C-N-CA	8.22	131.72	120.46
1	2J	115	ILE	CA-C-N	8.22	129.06	119.94
1	2J	115	ILE	C-N-CA	8.22	129.06	119.94
1	3r	120	HIS	ND1-CE1-NE2	8.22	116.62	108.40
1	lP	117	TRP	N-CA-C	8.22	120.24	111.28
1	3C	186	THR	CA-C-N	8.22	131.29	120.28
1	3C	186	THR	C-N-CA	8.22	131.29	120.28
1	4b	18	ARG	CA-C-N	8.22	131.12	120.44
1	4b	18	ARG	C-N-CA	8.22	131.12	120.44
1	54	66	MET	O-C-N	-8.22	113.55	122.09
1	6o	62	HIS	ND1-CE1-NE2	8.22	116.62	108.40
1	8h	87	HIS	ND1-CE1-NE2	8.22	116.62	108.40
1	b5	202	LEU	N-CA-C	8.22	120.24	111.28
1	1l	226	HIS	CA-CB-CG	8.22	122.02	113.80
1	dA	126	VAL	CA-C-N	8.22	129.10	119.98
1	dA	126	VAL	C-N-CA	8.22	129.10	119.98
1	g0	119	THR	CA-CB-OG1	8.22	121.93	109.60
1	8Y	125	PRO	CA-C-N	8.22	131.72	120.46
1	8Y	125	PRO	C-N-CA	8.22	131.72	120.46
1	aV	192	GLN	N-CA-C	8.22	120.24	111.28
1	s	33	SER	O-C-N	-8.22	114.73	121.80
1	cp	149	SER	O-C-N	-8.22	113.25	123.27
1	1e	126	VAL	N-CA-C	8.22	119.99	110.62
1	db	201	ILE	N-CA-C	8.22	118.31	110.42
1	d	23	TRP	N-CA-C	8.22	120.32	111.36
1	gl	92	GLU	CA-C-N	8.21	130.11	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gl	92	GLU	C-N-CA	8.21	130.11	119.84
1	gv	63	GLN	N-CA-C	8.21	120.31	111.36
1	hE	62	HIS	CA-CB-CG	-8.22	105.58	113.80
1	hM	148	THR	CA-C-N	8.22	137.23	121.54
1	hM	148	THR	C-N-CA	8.22	137.23	121.54
1	hY	99	PRO	N-CA-CB	8.22	111.63	102.67
1	ld	152	ASP	CA-CB-CG	8.22	120.82	112.60
1	lC	102	SER	O-C-N	-8.22	113.41	122.12
1	hy	100	ARG	NE-CZ-NH1	8.21	129.71	121.50
1	i5	137	GLY	CA-C-N	8.21	131.63	120.54
1	i5	137	GLY	C-N-CA	8.21	131.63	120.54
1	2Z	87	HIS	CA-CB-CG	8.22	122.02	113.80
1	7b	69	LEU	CA-C-O	8.22	129.45	120.82
1	ie	142	VAL	N-CA-C	8.21	119.00	110.62
1	1Q	74	ASN	CA-CB-CG	8.21	120.81	112.60
1	iP	55	MET	N-CA-C	8.21	119.86	111.07
1	j5	216	THR	N-CA-C	8.21	120.01	111.14
1	jp	92	GLU	N-CA-C	-8.21	98.69	108.14
1	eb	74	ASN	OD1-CG-ND2	-8.22	114.38	122.60
1	l2	26	VAL	N-CA-C	8.21	118.31	110.42
1	lc	50	GLN	N-CA-C	8.21	119.86	111.07
1	lr	205	LEU	N-CA-C	-8.21	102.85	113.12
1	28	159	GLU	O-C-N	-8.21	113.79	121.35
1	44	64	ALA	N-CA-C	8.21	120.23	111.28
1	4y	46	GLY	N-CA-C	-8.21	103.69	115.27
1	4S	62	HIS	N-CA-C	8.22	122.75	111.17
1	5W	117	TRP	CA-C-O	-8.21	112.19	120.82
1	6n	84	HIS	CA-C-N	8.21	130.11	119.84
1	6n	84	HIS	C-N-CA	8.21	130.11	119.84
1	88	12	HIS	CE1-NE2-CD2	-8.21	100.78	109.00
1	8e	128	GLU	N-CA-C	8.21	119.86	111.07
1	8z	63	GLN	N-CA-C	8.21	120.31	111.36
1	9E	133	TRP	CG-CD2-CE3	8.21	142.12	133.90
1	9W	148	THR	N-CA-C	8.22	120.92	110.24
1	az	16	SER	N-CA-C	8.21	120.07	109.64
1	cn	173	ARG	CA-C-O	8.21	129.42	119.97
1	cu	226	HIS	CA-CB-CG	8.21	122.02	113.80
1	du	183	ASN	CA-CB-CG	-8.21	104.39	112.60
1	ed	6	LEU	N-CA-C	8.22	120.92	110.24
1	1w	76	GLU	CA-C-N	8.21	131.63	120.54
1	1w	76	GLU	C-N-CA	8.21	131.63	120.54
1	gi	126	VAL	N-CA-C	8.21	119.00	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jg	12	HIS	CE1-NE2-CD2	-8.21	100.79	109.00
1	lb	57	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	1e	179	GLN	O-C-N	-8.21	113.41	122.12
1	d9	122	PRO	CA-C-N	8.21	128.28	119.90
1	d9	122	PRO	C-N-CA	8.21	128.28	119.90
1	hf	80	TRP	N-CA-C	8.21	120.31	111.36
1	hL	166	ASP	CA-CB-CG	8.21	120.81	112.60
1	jm	126	VAL	N-CA-C	8.21	119.00	110.62
1	jv	192	GLN	N-CA-C	8.21	120.23	111.28
1	21	37	ILE	O-C-N	-8.21	115.16	120.42
1	kn	229	ARG	O-C-N	-8.21	112.81	123.16
1	3s	22	ALA	O-C-N	-8.21	113.61	122.07
1	3O	199	LYS	CA-C-N	8.21	131.63	120.54
1	3O	199	LYS	C-N-CA	8.21	131.63	120.54
1	6K	91	ILE	CA-C-N	8.21	131.81	120.39
1	6K	91	ILE	C-N-CA	8.21	131.81	120.39
1	bm	16	SER	CA-C-N	8.21	130.11	119.84
1	ek	102	SER	N-CA-C	8.21	119.86	111.07
1	f0	66	MET	N-CA-C	8.21	120.23	111.28
1	jM	117	TRP	N-CA-C	8.21	120.31	111.36
1	k0	132	ARG	NE-CZ-NH2	8.21	126.59	119.20
1	k4	94	GLY	O-C-N	-8.21	112.81	122.50
1	kM	29	GLU	N-CA-C	8.21	119.86	111.07
1	lk	97	ARG	NE-CZ-NH1	8.21	129.71	121.50
1	2P	173	ARG	NH1-CZ-NH2	-8.21	108.63	119.30
1	3p	130	TYR	CA-C-O	8.21	129.25	120.55
1	3D	183	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	48	124	ILE	CA-C-O	8.21	125.19	119.20
1	4C	92	GLU	CB-CA-C	8.21	122.65	109.51
1	5h	5	ASN	CA-CB-CG	8.21	120.81	112.60
1	4Z	166	ASP	CA-CB-CG	8.21	120.81	112.60
1	5G	176	GLN	CA-C-N	8.21	135.57	120.95
1	5G	176	GLN	C-N-CA	8.21	135.57	120.95
1	67	11	VAL	O-C-N	-8.21	113.64	123.00
1	9r	141	ILE	N-CA-C	8.21	119.00	110.62
1	6H	33	SER	O-C-N	-8.21	114.24	121.71
1	6T	195	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	bi	6	LEU	N-CA-CB	-8.21	98.99	110.65
1	bm	16	SER	C-N-CA	8.21	130.11	119.84
1	f5	87	HIS	CE1-NE2-CD2	-8.21	100.79	109.00
1	fc	120	HIS	CG-CD2-NE2	8.21	115.41	107.20
1	70	132	ARG	O-C-N	8.21	130.53	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	29	GLU	N-CA-C	8.21	120.31	111.36
1	7O	161	PHE	CA-CB-CG	-8.21	105.59	113.80
1	9R	50	GLN	OE1-CD-NE2	-8.21	114.39	122.60
1	9X	143	ARG	NE-CZ-NH2	8.21	126.59	119.20
1	aj	152	ASP	N-CA-CB	-8.21	98.21	110.61
1	b3	57	ASN	CA-CB-CG	-8.21	104.39	112.60
1	f5	56	LEU	CA-C-O	8.21	129.69	120.90
1	bF	63	GLN	N-CA-C	8.21	121.15	111.71
1	k	111	LEU	N-CA-C	8.21	120.23	111.28
1	X	216	THR	CA-C-N	8.21	131.11	120.44
1	X	216	THR	C-N-CA	8.21	131.11	120.44
1	1C	32	PHE	N-CA-C	-8.21	99.56	111.30
1	1L	136	LEU	CA-C-N	8.21	129.26	119.99
1	1L	136	LEU	C-N-CA	8.21	129.26	119.99
1	id	84	HIS	ND1-CE1-NE2	8.21	116.61	108.40
1	2p	221	VAL	O-C-N	-8.21	113.91	121.87
1	3c	28	GLU	CA-C-O	-8.21	112.12	120.90
1	iu	38	PRO	CA-C-N	8.21	131.28	120.28
1	iu	38	PRO	C-N-CA	8.21	131.28	120.28
1	iH	192	GLN	N-CA-C	8.21	121.26	111.33
1	iH	215	MET	CG-SD-CE	-8.21	82.84	100.90
1	jF	166	ASP	CA-C-O	8.21	129.25	120.55
1	k6	97	ARG	NE-CZ-NH1	8.21	129.71	121.50
1	kS	57	ASN	N-CA-C	8.21	120.31	111.36
1	kV	195	ASN	CA-CB-CG	8.21	120.81	112.60
1	42	5	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	5N	124	ILE	N-CA-CB	8.21	122.70	111.21
1	ey	210	THR	CA-C-N	8.21	131.62	120.54
1	ey	210	THR	C-N-CA	8.21	131.62	120.54
1	F	16	SER	CA-C-N	8.21	128.16	119.05
1	20	224	PRO	N-CA-C	8.21	124.12	111.15
1	lm	96	MET	O-C-N	-8.21	113.53	123.30
1	2e	180	GLU	N-CA-C	8.21	119.85	111.07
1	3m	215	MET	CG-SD-CE	-8.21	82.84	100.90
1	4c	185	MET	CB-CA-C	8.21	125.81	110.63
1	4C	33	SER	O-C-N	-8.21	114.56	121.54
1	4M	229	ARG	CA-C-O	8.21	129.61	119.11
1	5x	77	ALA	CA-C-N	8.21	131.28	120.28
1	5x	77	ALA	C-N-CA	8.21	131.28	120.28
1	5x	96	MET	CA-C-N	8.21	132.79	121.05
1	5x	96	MET	C-N-CA	8.21	132.79	121.05
1	ec	18	ARG	NE-CZ-NH1	8.21	129.71	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	169	TYR	N-CA-CB	8.21	122.18	110.12
1	6p	89	GLY	CA-C-N	8.21	130.10	119.84
1	6p	89	GLY	C-N-CA	8.21	130.10	119.84
1	6s	4	GLN	OE1-CD-NE2	-8.21	114.39	122.60
1	7N	183	ASN	CA-CB-CG	8.21	120.81	112.60
1	82	66	MET	N-CA-C	8.21	120.22	111.28
1	9m	81	ASP	O-C-N	-8.21	111.80	122.39
1	9I	62	HIS	CA-C-N	8.21	132.10	120.28
1	9I	62	HIS	C-N-CA	8.21	132.10	120.28
1	aE	140	LYS	N-CA-C	8.21	120.23	111.28
1	bg	115	ILE	N-CA-C	8.21	118.99	110.62
1	cW	84	HIS	CA-C-N	8.21	128.27	119.90
1	cW	84	HIS	C-N-CA	8.21	128.27	119.90
1	d9	21	ASN	CA-CB-CG	8.21	120.81	112.60
1	e6	152	ASP	CA-CB-CG	-8.21	104.39	112.60
1	ef	162	ARG	NE-CZ-NH2	-8.21	111.81	119.20
1	eO	179	GLN	N-CA-C	8.21	120.23	111.28
1	fJ	84	HIS	CA-CB-CG	-8.21	105.59	113.80
1	F	16	SER	C-N-CA	8.21	128.16	119.05
1	g3	82	ARG	NH1-CZ-NH2	-8.21	108.63	119.30
1	h	214	MET	CA-C-N	8.21	131.11	120.44
1	h	214	MET	C-N-CA	8.21	131.11	120.44
1	gB	206	GLY	CA-C-N	8.21	128.69	119.83
1	gB	206	GLY	C-N-CA	8.21	128.69	119.83
1	hD	51	ASP	O-C-N	-8.20	113.42	122.12
1	i7	201	ILE	CA-C-O	8.21	129.87	121.17
1	l8	101	GLY	O-C-N	-8.21	114.21	122.17
1	4W	229	ARG	CA-C-N	8.21	131.50	120.50
1	12	121	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	eW	124	ILE	CA-C-O	-8.21	112.74	119.47
1	fz	53	ASN	OD1-CG-ND2	-8.21	114.39	122.60
1	i9	185	MET	CA-C-N	8.20	131.27	120.28
1	i9	185	MET	C-N-CA	8.20	131.27	120.28
1	iu	178	SER	O-C-N	-8.20	113.18	122.86
1	iJ	105	ALA	N-CA-C	-8.20	103.39	113.15
1	21	153	ILE	N-CA-C	8.21	120.16	109.58
1	24	206	GLY	CA-C-N	8.21	127.93	119.64
1	24	206	GLY	C-N-CA	8.21	127.93	119.64
1	kU	165	VAL	O-C-N	-8.20	113.58	121.87
1	3o	222	GLY	CA-C-N	8.21	134.75	121.87
1	3o	222	GLY	C-N-CA	8.21	134.75	121.87
1	4W	229	ARG	C-N-CA	8.21	131.50	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	226	HIS	CB-CG-CD2	-8.21	120.53	131.20
1	dS	87	HIS	CA-CB-CG	-8.21	105.59	113.80
1	5Q	84	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	6Z	101	GLY	CA-C-N	8.21	132.09	120.28
1	6Z	101	GLY	C-N-CA	8.21	132.09	120.28
1	98	209	ALA	N-CA-C	8.21	121.51	110.35
1	9W	195	ASN	CA-CB-CG	8.21	120.81	112.60
1	7n	100	ARG	NE-CZ-NH1	8.20	129.70	121.50
1	82	111	LEU	CA-C-O	8.21	129.25	120.55
1	a8	226	HIS	CA-CB-CG	-8.21	105.59	113.80
1	9a	62	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	10	184	TRP	CB-CG-CD2	8.20	138.29	126.80
1	aF	53	ASN	CA-CB-CG	-8.20	104.40	112.60
1	bf	203	LYS	CA-C-N	8.21	131.28	120.28
1	bf	203	LYS	C-N-CA	8.21	131.28	120.28
1	bH	27	VAL	N-CA-C	8.20	118.30	110.42
1	bJ	74	ASN	CA-CB-CG	8.21	120.81	112.60
1	bN	201	ILE	CA-C-N	8.21	131.28	120.28
1	bN	201	ILE	C-N-CA	8.21	131.28	120.28
1	bW	37	ILE	CA-C-O	-8.21	113.19	118.69
1	fi	152	ASP	CA-CB-CG	8.21	120.81	112.60
1	I	202	LEU	O-C-N	-8.21	112.80	122.15
1	cd	227	LYS	CA-C-N	8.20	132.47	120.90
1	cd	227	LYS	C-N-CA	8.20	132.47	120.90
1	d4	53	ASN	CA-CB-CG	-8.21	104.39	112.60
1	dQ	200	THR	N-CA-C	8.21	120.22	111.28
1	9	96	MET	N-CA-CB	8.20	122.45	110.06
1	jA	203	LYS	N-CA-C	8.20	120.22	111.28
1	kT	143	ARG	NE-CZ-NH2	8.20	126.58	119.20
1	gz	180	GLU	N-CA-C	8.20	120.22	111.28
1	hK	195	ASN	CA-CB-CG	8.20	120.80	112.60
1	iH	189	LEU	N-CA-C	8.20	119.85	111.07
1	jf	12	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	2v	73	ILE	O-C-N	-8.20	110.80	122.12
1	2x	177	ALA	N-CA-C	8.20	120.90	110.24
1	4T	15	ILE	N-CA-C	8.20	120.00	108.93
1	2T	48	THR	CA-C-O	-8.20	112.02	120.96
1	3I	63	GLN	N-CA-C	8.20	121.33	111.82
1	4a	33	SER	CA-C-N	8.20	127.93	119.56
1	4a	33	SER	C-N-CA	8.20	127.93	119.56
1	4X	209	ALA	O-C-N	-8.20	113.92	123.11
1	5Y	81	ASP	N-CA-C	-8.20	102.42	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6m	183	ASN	CA-CB-CG	8.20	120.80	112.60
1	70	15	ILE	N-CA-CB	8.20	120.90	111.39
1	aP	50	GLN	N-CA-C	8.20	119.84	111.07
1	bh	206	GLY	CA-C-N	8.20	128.27	119.90
1	bh	206	GLY	C-N-CA	8.20	128.27	119.90
1	bs	133	TRP	CA-C-O	-8.20	111.72	120.42
1	k	12	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	bJ	152	ASP	CA-CB-CG	-8.20	104.40	112.60
1	dd	44	SER	N-CA-C	8.20	122.12	112.93
1	1x	129	ILE	CA-C-N	8.20	131.59	120.44
1	1x	129	ILE	C-N-CA	8.20	131.59	120.44
1	1z	84	HIS	CB-CG-CD2	-8.20	120.54	131.20
1	C	100	ARG	O-C-N	-8.20	112.64	122.65
1	1O	143	ARG	NE-CZ-NH2	-8.20	111.82	119.20
1	k1	53	ASN	OD1-CG-ND2	-8.20	114.40	122.60
1	ky	123	PRO	N-CA-C	8.20	124.25	111.21
1	i9	88	ALA	N-CA-C	8.20	122.31	110.10
1	kI	176	GLN	OE1-CD-NE2	-8.20	114.40	122.60
1	2h	173	ARG	NE-CZ-NH2	-8.20	111.82	119.20
1	53	97	ARG	NE-CZ-NH2	-8.20	111.82	119.20
1	4Q	173	ARG	NE-CZ-NH1	8.20	129.70	121.50
1	55	165	VAL	CA-C-O	-8.20	112.52	121.05
1	9a	90	PRO	N-CA-CB	-8.20	96.03	103.25
1	9K	201	ILE	O-C-N	-8.20	113.87	121.91
1	be	112	GLN	OE1-CD-NE2	-8.20	114.40	122.60
1	5V	56	LEU	CA-C-O	8.20	129.11	120.42
1	73	100	ARG	NE-CZ-NH2	-8.20	111.82	119.20
1	7b	139	ASN	CA-CB-CG	8.20	120.80	112.60
1	89	10	MET	N-CA-CB	8.20	122.06	109.85
1	8d	176	GLN	OE1-CD-NE2	-8.20	114.40	122.60
1	8q	200	THR	O-C-N	-8.20	112.63	122.22
1	9k	63	GLN	N-CA-C	8.20	119.99	111.14
1	eT	97	ARG	N-CA-C	8.20	122.12	110.23
1	cz	114	GLN	CA-C-N	8.20	131.69	120.46
1	cz	114	GLN	C-N-CA	8.20	131.69	120.46
1	1f	188	THR	CA-C-N	8.20	131.26	120.28
1	1f	188	THR	C-N-CA	8.20	131.26	120.28
1	eL	27	VAL	N-CA-C	8.20	118.98	110.62
1	1A	125	PRO	N-CA-CB	8.20	108.43	102.28
1	E	36	VAL	CA-C-N	8.20	128.30	120.43
1	E	36	VAL	C-N-CA	8.20	128.30	120.43
1	gi	226	HIS	O-C-N	-8.20	113.43	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gt	154	ARG	CA-C-O	8.20	129.01	120.40
1	gR	217	ALA	O-C-N	-8.20	113.19	122.86
1	k6	132	ARG	N-CA-CB	8.20	122.17	110.12
1	kk	24	VAL	O-C-N	-8.20	113.92	121.87
1	kX	63	GLN	N-CA-C	8.20	121.33	111.82
1	ls	230	VAL	CA-C-O	8.20	129.34	120.57
1	4M	21	ASN	CA-CB-CG	-8.20	104.40	112.60
1	aX	84	HIS	ND1-CE1-NE2	8.20	116.60	108.40
1	gA	32	PHE	CA-CB-CG	-8.20	105.61	113.80
1	l0	56	LEU	N-CA-C	8.20	119.84	111.07
1	l7	12	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	lj	5	ASN	CA-CB-CG	-8.20	104.40	112.60
1	4h	168	PHE	N-CA-C	8.20	120.94	111.11
1	5B	163	ASP	CB-CA-C	8.20	123.75	110.88
1	7d	84	HIS	CE1-NE2-CD2	-8.20	100.80	109.00
1	8w	13	GLN	OE1-CD-NE2	-8.20	114.40	122.60
1	8T	100	ARG	NE-CZ-NH1	8.20	129.70	121.50
1	91	156	GLY	N-CA-C	8.20	121.84	112.00
1	Z	28	GLU	N-CA-C	8.20	120.22	111.28
1	ad	116	GLY	CA-C-N	8.20	131.26	120.28
1	ad	116	GLY	C-N-CA	8.20	131.26	120.28
1	bJ	166	ASP	CA-CB-CG	8.20	120.80	112.60
1	1n	67	GLN	O-C-N	-8.20	112.81	122.15
1	eG	163	ASP	N-CA-C	8.20	120.21	111.28
1	N	75	GLU	N-CA-C	8.20	119.84	111.07
1	hP	136	LEU	CA-C-O	8.19	129.42	120.82
1	hW	73	ILE	O-C-N	-8.19	113.88	121.91
1	2H	25	LYS	CA-C-N	8.19	130.88	120.56
1	2H	25	LYS	C-N-CA	8.19	130.88	120.56
1	57	191	VAL	N-CA-C	8.19	118.98	110.62
1	6C	76	GLU	CA-C-N	8.19	131.09	120.44
1	6C	76	GLU	C-N-CA	8.19	131.09	120.44
1	8y	128	GLU	N-CA-C	8.20	119.84	111.07
1	9m	212	GLU	N-CA-C	8.20	120.21	111.28
1	ad	211	LEU	CA-C-N	8.20	131.09	120.44
1	ad	211	LEU	C-N-CA	8.20	131.09	120.44
1	bj	97	ARG	NE-CZ-NH1	8.20	129.69	121.50
1	bs	32	PHE	CA-CB-CG	-8.20	105.61	113.80
1	c1	201	ILE	N-CA-CB	8.20	122.87	110.58
1	cx	85	PRO	CA-C-N	8.20	131.48	120.50
1	cx	85	PRO	C-N-CA	8.20	131.48	120.50
1	bR	17	PRO	N-CA-C	8.19	125.96	113.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cV	166	ASP	CA-CB-CG	8.20	120.80	112.60
1	dx	6	LEU	N-CA-C	-8.20	96.82	109.52
1	g	50	GLN	OE1-CD-NE2	-8.20	114.40	122.60
1	eH	166	ASP	CA-CB-CG	8.19	120.79	112.60
1	eL	180	GLU	CA-C-N	8.19	130.88	120.56
1	eL	180	GLU	C-N-CA	8.19	130.88	120.56
1	eO	196	PRO	O-C-N	8.19	131.66	122.24
1	1v	200	THR	N-CA-C	8.19	121.33	111.82
1	fV	169	TYR	O-C-N	-8.20	112.19	122.27
1	u	36	VAL	N-CA-C	8.19	118.29	110.42
1	gu	19	THR	O-C-N	-8.19	112.81	122.15
1	gB	132	ARG	NH1-CZ-NH2	-8.19	108.65	119.30
1	hn	104	ILE	O-C-N	-8.19	112.54	121.80
1	jb	189	LEU	O-C-N	-8.19	112.81	122.15
1	jE	18	ARG	NE-CZ-NH2	-8.19	111.83	119.20
1	as	162	ARG	N-CA-CB	-8.19	97.77	110.06
1	gQ	33	SER	CA-C-O	-8.19	110.86	119.22
1	jI	89	GLY	O-C-N	-8.19	113.58	121.77
1	7w	63	GLN	OE1-CD-NE2	-8.19	114.41	122.60
1	2D	110	THR	CA-C-O	-8.19	111.56	121.06
1	2G	126	VAL	CA-C-N	8.19	129.03	119.94
1	2G	126	VAL	C-N-CA	8.19	129.03	119.94
1	7O	219	GLN	CA-C-O	8.19	130.20	121.19
1	8O	101	GLY	CA-C-O	8.19	128.81	120.45
1	9X	219	GLN	N-CA-C	8.19	121.34	110.53
1	a2	179	GLN	N-CA-C	8.19	121.24	111.33
1	ab	64	ALA	N-CA-C	8.19	121.13	111.71
1	d1	5	ASN	CA-CB-CG	-8.19	104.41	112.60
1	dl	186	THR	N-CA-C	8.19	120.21	111.28
1	dS	131	LYS	CA-C-N	8.19	131.26	120.28
1	dS	131	LYS	C-N-CA	8.19	131.26	120.28
1	fg	191	VAL	N-CA-C	8.19	118.28	110.42
1	1B	54	THR	O-C-N	-8.19	113.44	122.12
1	3	62	HIS	CA-CB-CG	-8.19	105.61	113.80
1	h7	12	HIS	CA-CB-CG	8.19	121.99	113.80
1	iw	20	LEU	O-C-N	-8.19	113.64	122.07
1	ja	149	SER	CA-C-N	8.19	131.68	120.46
1	ja	149	SER	C-N-CA	8.19	131.68	120.46
1	5D	96	MET	O-C-N	-8.19	111.85	123.07
1	ct	210	THR	CA-C-N	8.19	131.25	120.28
1	ct	210	THR	C-N-CA	8.19	131.25	120.28
1	iP	195	ASN	CB-CA-C	8.19	122.45	109.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	5	ASN	CA-CB-CG	8.19	120.79	112.60
1	1V	124	ILE	CA-CB-CG1	8.19	124.32	110.40
1	kr	37	ILE	CA-C-N	8.19	127.78	118.85
1	kr	37	ILE	C-N-CA	8.19	127.78	118.85
1	ln	155	GLN	CA-C-O	8.19	129.85	120.60
1	lE	66	MET	CA-C-O	8.19	129.35	120.10
1	2S	10	MET	N-CA-C	8.19	122.84	113.01
1	35	163	ASP	N-CA-C	8.19	121.24	111.33
1	3z	164	TYR	N-CA-C	8.19	121.24	111.33
1	4h	192	GLN	CA-C-N	8.19	131.09	120.44
1	4h	192	GLN	C-N-CA	8.19	131.09	120.44
1	4E	229	ARG	NE-CZ-NH1	8.19	129.69	121.50
1	5B	126	VAL	CA-C-N	8.19	129.01	120.00
1	5B	126	VAL	C-N-CA	8.19	129.01	120.00
1	9T	183	ASN	CA-CB-CG	-8.19	104.41	112.60
1	6w	26	VAL	CA-C-O	-8.19	112.49	121.17
1	7g	182	LYS	N-CA-C	8.19	120.21	111.28
1	7E	100	ARG	NE-CZ-NH1	8.19	129.69	121.50
1	ew	19	THR	N-CA-C	8.19	120.21	111.28
1	ff	76	GLU	CA-C-N	8.19	131.09	120.44
1	ff	76	GLU	C-N-CA	8.19	131.09	120.44
1	96	51	ASP	CA-CB-CG	-8.19	104.41	112.60
1	aU	57	ASN	OD1-CG-ND2	-8.19	114.41	122.60
1	cX	141	ILE	CA-C-N	8.19	131.68	120.46
1	cX	141	ILE	C-N-CA	8.19	131.68	120.46
1	dK	57	ASN	CA-C-N	8.19	131.08	120.44
1	dK	57	ASN	C-N-CA	8.19	131.08	120.44
1	dU	87	HIS	CG-CD2-NE2	8.19	115.39	107.20
1	fX	167	ARG	NE-CZ-NH2	8.19	126.57	119.20
1	5	91	ILE	N-CA-CB	-8.19	101.72	112.36
1	gz	84	HIS	O-C-N	-8.19	111.94	121.60
1	jq	173	ARG	NE-CZ-NH2	-8.19	111.83	119.20
1	54	64	ALA	CA-C-O	8.19	129.10	120.42
1	cL	154	ARG	N-CA-C	8.19	120.88	110.24
1	1F	199	LYS	N-CA-C	8.19	121.12	111.71
1	1J	124	ILE	O-C-N	-8.19	115.08	121.46
1	1M	123	PRO	CA-C-N	-8.19	116.70	122.59
1	1M	123	PRO	C-N-CA	-8.19	116.70	122.59
1	iC	41	SER	N-CA-C	8.19	120.28	111.36
1	iW	36	VAL	N-CA-C	8.19	118.97	110.62
1	kV	33	SER	N-CA-C	-8.19	98.73	108.14
1	l5	132	ARG	NH1-CZ-NH2	-8.19	108.66	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	le	142	VAL	N-CA-C	8.19	118.28	110.42
1	lH	174	ALA	N-CA-C	8.19	120.20	111.28
1	5A	226	HIS	N-CA-C	8.19	120.88	110.24
1	4D	111	LEU	O-C-N	-8.19	113.58	122.09
1	5D	91	ILE	N-CA-C	8.19	119.65	108.84
1	5S	164	TYR	N-CA-C	8.19	120.20	111.28
1	ad	184	TRP	CA-C-N	8.19	131.25	120.28
1	ad	184	TRP	C-N-CA	8.19	131.25	120.28
1	c9	4	GLN	N-CA-C	8.19	120.20	111.28
1	6n	71	GLU	N-CA-C	8.19	120.20	111.28
1	6D	76	GLU	CA-C-N	8.19	131.08	120.44
1	6D	76	GLU	C-N-CA	8.19	131.08	120.44
1	7f	159	GLU	N-CA-C	8.19	120.22	109.83
1	8B	195	ASN	O-C-N	-8.19	113.33	121.27
1	9M	180	GLU	CA-C-N	8.19	131.67	120.46
1	9M	180	GLU	C-N-CA	8.19	131.67	120.46
1	9S	41	SER	CA-C-N	8.19	131.08	120.44
1	9S	41	SER	C-N-CA	8.19	131.08	120.44
1	bv	229	ARG	NE-CZ-NH1	8.19	129.69	121.50
1	dx	207	PRO	CA-C-N	8.19	132.75	120.31
1	dx	207	PRO	C-N-CA	8.19	132.75	120.31
1	ed	138	LEU	N-CA-C	8.19	120.20	111.28
1	es	18	ARG	NE-CZ-NH2	-8.19	111.83	119.20
1	eI	19	THR	N-CA-C	8.19	121.12	111.71
1	1t	53	ASN	OD1-CG-ND2	-8.19	114.42	122.60
1	1u	206	GLY	CA-C-N	8.19	130.07	119.84
1	1u	206	GLY	C-N-CA	8.19	130.07	119.84
1	q	15	ILE	O-C-N	-8.19	113.90	122.66
1	g1	59	VAL	N-CA-C	8.19	121.22	109.51
1	B	67	GLN	CG-CD-OE1	8.19	137.17	120.80
1	hO	33	SER	O-C-N	-8.18	113.63	121.57
1	kf	169	TYR	N-CA-C	8.18	120.20	111.28
1	2k	97	ARG	CA-C-N	8.18	132.11	120.49
1	2k	97	ARG	C-N-CA	8.18	132.11	120.49
1	2Y	225	GLY	N-CA-C	8.18	122.23	112.33
1	5p	139	ASN	CA-CB-CG	8.18	120.78	112.60
1	iA	126	VAL	CA-C-N	8.18	128.86	119.94
1	iA	126	VAL	C-N-CA	8.18	128.86	119.94
1	jf	132	ARG	NE-CZ-NH1	8.18	129.68	121.50
1	jv	150	ILE	N-CA-C	8.18	123.64	113.00
1	3F	215	MET	N-CA-C	8.18	120.20	111.28
1	5A	167	ARG	NE-CZ-NH1	8.18	129.68	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	151	LEU	N-CA-C	8.18	120.20	111.28
1	6x	12	HIS	CA-CB-CG	8.18	121.98	113.80
1	74	58	THR	N-CA-C	8.18	119.98	111.14
1	7B	16	SER	CA-C-N	8.18	128.28	119.28
1	7B	16	SER	C-N-CA	8.18	128.28	119.28
1	8u	78	ALA	N-CA-C	8.18	119.83	111.07
1	9x	111	LEU	CA-C-N	8.18	131.59	120.54
1	9x	111	LEU	C-N-CA	8.18	131.59	120.54
1	9D	4	GLN	N-CA-C	8.18	121.78	110.24
1	9S	101	GLY	CA-C-N	8.18	131.08	120.44
1	9S	101	GLY	C-N-CA	8.18	131.08	120.44
1	13	205	LEU	N-CA-C	8.18	120.20	111.28
1	aQ	92	GLU	CA-C-N	8.18	130.07	119.84
1	aQ	92	GLU	C-N-CA	8.18	130.07	119.84
1	bJ	137	GLY	O-C-N	-8.18	114.33	122.18
1	bP	87	HIS	CE1-NE2-CD2	-8.18	100.82	109.00
1	c2	204	ALA	O-C-N	-8.18	112.11	122.34
1	dq	24	VAL	CA-C-N	8.18	131.59	120.38
1	dq	24	VAL	C-N-CA	8.18	131.59	120.38
1	dw	95	GLN	O-C-N	-8.18	112.91	122.89
1	dN	96	MET	N-CA-C	8.18	122.10	110.23
1	dP	40	PHE	CA-CB-CG	-8.18	105.62	113.80
1	ek	18	ARG	N-CA-C	8.18	120.20	111.28
1	en	114	GLN	CA-C-N	8.18	130.87	120.56
1	en	114	GLN	C-N-CA	8.18	130.87	120.56
1	1x	67	GLN	N-CA-C	8.18	119.98	111.14
1	o	112	GLN	N-CA-C	8.18	120.20	111.28
1	z	175	GLU	CA-C-N	8.18	133.98	122.36
1	z	175	GLU	C-N-CA	8.18	133.98	122.36
1	J	39	MET	CA-C-N	8.18	131.08	120.44
1	J	39	MET	C-N-CA	8.18	131.08	120.44
1	h5	115	ILE	N-CA-C	8.18	118.27	110.42
1	hb	140	LYS	CA-C-N	8.18	131.67	120.46
1	hb	140	LYS	C-N-CA	8.18	131.67	120.46
1	hj	108	THR	CA-C-O	8.18	128.47	119.15
1	hF	143	ARG	O-C-N	-8.18	113.45	122.12
1	hZ	48	THR	N-CA-CB	8.18	121.07	109.78
1	lu	126	VAL	CA-C-N	8.18	129.00	120.00
1	lu	126	VAL	C-N-CA	8.18	129.00	120.00
1	4g	29	GLU	N-CA-C	8.18	120.28	111.36
1	b8	113	GLU	CA-C-O	8.18	129.22	120.55
1	cf	75	GLU	O-C-N	-8.18	112.82	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	100	ARG	CA-C-N	8.18	129.06	119.98
1	co	100	ARG	C-N-CA	8.18	129.06	119.98
1	d4	155	GLN	O-C-N	-8.18	112.81	122.95
1	i5	132	ARG	N-CA-C	8.18	121.23	111.33
1	eg	171	THR	O-C-N	-8.18	113.45	122.12
1	iY	159	GLU	CA-C-N	8.18	130.06	119.84
1	iY	159	GLU	C-N-CA	8.18	130.06	119.84
1	jz	146	SER	CA-C-N	8.18	127.86	119.19
1	jz	146	SER	C-N-CA	8.18	127.86	119.19
1	kz	82	ARG	NE-CZ-NH2	-8.18	111.84	119.20
1	lL	220	GLY	CA-C-N	8.18	131.66	120.46
1	lL	220	GLY	C-N-CA	8.18	131.66	120.46
1	2o	131	LYS	N-CA-C	8.18	120.20	111.28
1	2Y	114	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	3O	9	GLN	O-C-N	-8.18	113.53	122.85
1	3Q	177	ALA	N-CA-C	8.18	120.87	110.24
1	5t	139	ASN	CA-C-N	8.18	131.07	120.44
1	5t	139	ASN	C-N-CA	8.18	131.07	120.44
1	5Q	195	ASN	CA-C-N	8.18	128.65	119.32
1	5Q	195	ASN	C-N-CA	8.18	128.65	119.32
1	5Z	71	GLU	N-CA-C	8.18	120.20	111.28
1	8C	194	ALA	O-C-N	-8.18	113.21	122.86
1	9n	95	GLN	OE1-CD-NE2	-8.18	114.42	122.60
1	1n	143	ARG	CA-C-O	8.18	129.38	119.97
1	A	165	VAL	CA-C-N	8.18	131.58	120.54
1	A	165	VAL	C-N-CA	8.18	131.58	120.54
1	62	142	VAL	CA-C-N	8.18	131.24	120.28
1	62	142	VAL	C-N-CA	8.18	131.24	120.28
1	8i	200	THR	CA-C-O	8.18	129.22	120.55
1	c1	154	ARG	NE-CZ-NH2	8.18	126.56	119.20
1	d1	25	LYS	N-CA-C	8.18	120.28	111.36
1	eG	188	THR	O-C-N	-8.18	112.65	122.22
1	fR	36	VAL	CA-C-N	8.18	128.28	120.43
1	fR	36	VAL	C-N-CA	8.18	128.28	120.43
1	8E	26	VAL	O-C-N	-8.18	113.90	121.91
1	9O	169	TYR	N-CA-C	8.18	120.19	111.28
1	ab	32	PHE	CA-CB-CG	-8.18	105.62	113.80
1	cE	204	ALA	CA-C-O	8.18	129.09	120.42
1	1k	115	ILE	CA-C-N	8.18	129.19	120.03
1	1k	115	ILE	C-N-CA	8.18	129.19	120.03
1	1u	202	LEU	CA-C-O	-8.18	111.75	120.42
1	f6	217	ALA	O-C-N	-8.18	113.64	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fi	149	SER	CA-C-O	8.18	130.47	121.56
1	1y	200	THR	N-CA-C	8.18	120.19	111.28
1	fO	149	SER	CA-C-N	8.18	131.66	120.46
1	fO	149	SER	C-N-CA	8.18	131.66	120.46
1	v	179	GLN	N-CA-C	8.18	124.87	111.37
1	T	10	MET	N-CA-CB	8.18	122.18	109.83
1	g9	194	ALA	CA-C-O	-8.18	112.88	121.55
1	gx	138	LEU	N-CA-C	8.18	121.22	111.33
1	fE	37	ILE	CA-C-O	-8.18	112.50	118.71
1	1	101	GLY	CA-C-N	8.18	131.24	120.28
1	hP	168	PHE	CA-CB-CG	8.18	121.97	113.80
1	hV	168	PHE	CA-CB-CG	8.18	121.98	113.80
1	1	101	GLY	C-N-CA	8.18	131.24	120.28
1	1Q	51	ASP	CA-CB-CG	-8.18	104.42	112.60
1	iQ	135	ILE	N-CA-C	8.18	119.94	110.62
1	k4	229	ARG	NE-CZ-NH1	8.18	129.68	121.50
1	l6	86	VAL	N-CA-CB	8.18	119.44	110.53
1	lL	62	HIS	ND1-CE1-NE2	8.18	116.58	108.40
1	lN	150	ILE	N-CA-C	8.18	118.27	110.42
1	3w	106	GLY	CA-C-N	8.18	134.37	120.72
1	3w	106	GLY	C-N-CA	8.18	134.37	120.72
1	5m	122	PRO	N-CD-CG	8.18	113.61	103.80
1	5E	197	ASP	CA-CB-CG	-8.18	104.42	112.60
1	6B	143	ARG	N-CA-C	8.18	120.99	111.02
1	83	33	SER	CA-C-N	8.18	128.96	119.47
1	83	33	SER	C-N-CA	8.18	128.96	119.47
1	9N	195	ASN	CB-CA-C	8.18	122.97	109.56
1	87	41	SER	N-CA-C	8.18	120.19	111.28
1	8p	23	TRP	CA-C-N	8.18	131.66	120.46
1	8p	23	TRP	C-N-CA	8.18	131.66	120.46
1	8G	58	THR	CA-C-O	8.18	129.57	119.11
1	9B	23	TRP	N-CA-C	8.18	120.19	111.28
1	ag	136	LEU	O-C-N	-8.18	112.66	122.22
1	bt	209	ALA	N-CA-C	8.18	120.87	110.24
1	bE	145	TYR	N-CA-C	8.18	119.97	111.14
1	eE	60	GLY	CA-C-N	8.18	130.32	120.92
1	eE	60	GLY	C-N-CA	8.18	130.32	120.92
1	eh	162	ARG	NE-CZ-NH2	-8.18	111.84	119.20
1	b	74	ASN	CA-CB-CG	-8.18	104.42	112.60
1	hb	71	GLU	N-CA-C	8.17	120.19	111.28
1	hs	155	GLN	CA-C-N	8.17	134.70	121.87
1	hs	155	GLN	C-N-CA	8.17	134.70	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hS	159	GLU	CA-C-N	8.17	128.20	119.78
1	hS	159	GLU	C-N-CA	8.17	128.20	119.78
1	2c	11	VAL	N-CA-CB	-8.17	103.07	111.90
1	cE	156	GLY	CA-C-O	-8.17	114.53	122.46
1	ib	227	LYS	N-CA-C	8.17	128.21	110.80
1	iz	44	SER	CA-C-N	8.17	133.08	120.82
1	iz	44	SER	C-N-CA	8.17	133.08	120.82
1	l2	25	LYS	N-CA-C	8.17	119.81	111.07
1	lf	39	MET	N-CA-CB	8.17	121.86	110.01
1	2D	74	ASN	CA-C-O	-8.17	111.76	120.42
1	2M	119	THR	N-CA-CB	8.17	122.59	110.49
1	3b	183	ASN	N-CA-C	8.17	120.92	111.11
1	4E	155	GLN	OE1-CD-NE2	-8.17	114.43	122.60
1	5w	209	ALA	N-CA-C	8.17	120.86	110.24
1	6m	24	VAL	N-CA-C	8.17	118.27	110.42
1	6D	119	THR	N-CA-C	-8.17	103.45	113.50
1	7X	185	MET	N-CA-C	8.17	121.22	111.33
1	9Z	143	ARG	CA-C-N	8.17	131.07	120.44
1	9Z	143	ARG	C-N-CA	8.17	131.07	120.44
1	1z	84	HIS	O-C-N	-8.17	115.68	121.65
1	7m	195	ASN	CA-C-N	8.17	130.06	119.84
1	7m	195	ASN	C-N-CA	8.17	130.06	119.84
1	7M	77	ALA	CA-C-N	8.17	131.89	120.29
1	7M	77	ALA	C-N-CA	8.17	131.89	120.29
1	7U	185	MET	N-CA-C	8.17	120.19	111.28
1	an	188	THR	N-CA-C	8.17	119.82	111.07
1	aL	143	ARG	NE-CZ-NH2	8.17	126.56	119.20
1	bn	21	ASN	CA-CB-CG	8.17	120.77	112.60
1	bq	118	MET	O-C-N	-8.17	112.83	122.15
1	1e	35	GLU	CA-C-N	8.17	130.92	120.70
1	1e	35	GLU	C-N-CA	8.17	130.92	120.70
1	cW	153	ILE	O-C-N	-8.17	113.77	122.68
1	dv	131	LYS	N-CA-C	8.17	120.19	111.28
1	eJ	71	GLU	N-CA-C	8.17	121.30	111.82
1	e4	100	ARG	NE-CZ-NH2	-8.17	111.84	119.20
1	fn	185	MET	CA-C-O	8.17	129.08	120.42
1	T	139	ASN	CA-CB-CG	-8.17	104.43	112.60
1	9	174	ALA	N-CA-C	8.17	120.27	111.36
1	hn	122	PRO	CA-C-N	8.17	128.67	119.93
1	hn	122	PRO	C-N-CA	8.17	128.67	119.93
1	3r	103	ASP	N-CA-C	8.17	119.81	111.07
1	id	228	ALA	O-C-N	-8.17	114.33	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iN	207	PRO	CA-C-N	8.17	131.89	120.29
1	iN	207	PRO	C-N-CA	8.17	131.89	120.29
1	1V	54	THR	N-CA-C	8.17	120.19	111.28
1	46	168	PHE	CA-C-O	-8.17	112.24	120.82
1	jd	226	HIS	CA-C-N	8.17	132.31	120.71
1	jd	226	HIS	C-N-CA	8.17	132.31	120.71
1	kc	143	ARG	O-C-N	-8.17	112.84	122.15
1	E	126	VAL	O-C-N	-8.17	113.88	121.89
1	kq	19	THR	N-CA-C	8.17	120.18	111.28
1	lQ	55	MET	CA-C-N	8.17	131.06	120.44
1	lQ	55	MET	C-N-CA	8.17	131.06	120.44
1	2z	114	GLN	N-CA-C	8.17	119.81	111.07
1	3f	146	SER	O-C-N	-8.17	114.37	121.31
1	4a	195	ASN	OD1-CG-ND2	-8.17	114.43	122.60
1	4E	49	PRO	CB-CA-C	8.17	125.04	111.56
1	5y	181	VAL	N-CA-C	8.17	118.95	110.62
1	69	89	GLY	CA-C-N	8.17	128.61	120.52
1	69	89	GLY	C-N-CA	8.17	128.61	120.52
1	7W	60	GLY	N-CA-C	8.17	123.27	112.65
1	88	212	GLU	O-C-N	-8.17	113.66	122.07
1	8Q	39	MET	N-CA-C	8.17	120.18	111.28
1	8T	73	ILE	O-C-N	-8.17	113.91	121.91
1	9N	192	GLN	N-CA-C	8.17	120.91	111.11
1	a0	126	VAL	O-C-N	-8.17	113.88	121.89
1	ae	133	TRP	N-CA-CB	8.17	122.38	110.20
1	bn	12	HIS	CE1-NE2-CD2	-8.17	100.83	109.00
1	eT	19	THR	N-CA-C	8.17	120.19	111.28
1	g3	178	SER	N-CA-C	8.17	121.46	110.35
1	c0	81	ASP	N-CA-C	8.17	120.18	111.28
1	1c	75	GLU	N-CA-C	8.17	119.81	111.07
1	dF	189	LEU	CA-C-O	8.17	129.66	119.78
1	dO	42	ALA	N-CA-C	8.17	121.22	111.33
1	dU	120	HIS	CE1-NE2-CD2	-8.17	100.83	109.00
1	ev	60	GLY	CA-C-N	8.17	130.71	122.30
1	ev	60	GLY	C-N-CA	8.17	130.71	122.30
1	g9	66	MET	N-CA-C	8.17	120.18	111.28
1	gl	148	THR	O-C-N	-8.17	113.58	123.30
1	gP	117	TRP	N-CA-C	8.17	120.18	111.28
1	gP	123	PRO	CA-C-N	-8.17	116.71	122.59
1	gP	123	PRO	C-N-CA	-8.17	116.71	122.59
1	gX	179	GLN	N-CA-C	8.17	119.81	111.07
1	h7	158	LYS	O-C-N	-8.17	112.53	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	he	226	HIS	CA-C-N	8.17	131.22	120.28
1	he	226	HIS	C-N-CA	8.17	131.22	120.28
1	hz	170	LYS	CA-C-N	8.17	131.22	120.28
1	hz	170	LYS	C-N-CA	8.17	131.22	120.28
1	i0	48	THR	CA-C-O	-8.17	112.06	120.96
1	1N	162	ARG	NE-CZ-NH2	-8.17	111.85	119.20
1	ib	55	MET	CA-C-N	8.17	131.22	120.28
1	ib	55	MET	C-N-CA	8.17	131.22	120.28
1	jF	98	GLU	CB-CA-C	-8.17	105.40	111.20
1	ka	21	ASN	CA-CB-CG	-8.17	104.43	112.60
1	ld	97	ARG	NE-CZ-NH1	8.17	129.67	121.50
1	38	72	THR	N-CA-CB	8.17	121.85	110.01
1	3c	154	ARG	O-C-N	-8.17	113.86	123.41
1	3d	194	ALA	N-CA-C	8.17	120.86	110.24
1	3d	219	GLN	CB-CG-CD	8.17	126.48	112.60
1	4h	66	MET	N-CA-C	8.17	120.18	111.28
1	5F	76	GLU	O-C-N	-8.17	112.22	122.27
1	aN	18	ARG	NE-CZ-NH2	-8.17	111.85	119.20
1	bf	4	GLN	O-C-N	-8.17	111.73	122.59
1	cJ	201	ILE	N-CA-C	8.17	118.26	110.42
1	1n	12	HIS	CG-CD2-NE2	8.17	115.37	107.20
1	4X	136	LEU	CA-C-N	8.17	129.04	119.98
1	4X	136	LEU	C-N-CA	8.17	129.04	119.98
1	7e	228	ALA	CA-C-N	8.17	131.89	120.29
1	7e	228	ALA	C-N-CA	8.17	131.89	120.29
1	7w	120	HIS	CA-C-O	-8.17	112.40	121.87
1	7U	189	LEU	N-CA-C	8.17	120.18	111.28
1	9t	162	ARG	CA-C-N	8.17	131.89	120.29
1	9t	162	ARG	C-N-CA	8.17	131.89	120.29
1	8B	56	LEU	CA-C-N	8.17	131.22	120.28
1	8B	56	LEU	C-N-CA	8.17	131.22	120.28
1	8D	24	VAL	N-CA-CB	8.17	119.58	110.51
1	8L	99	PRO	N-CA-CB	8.17	111.82	103.25
1	9w	159	GLU	CA-C-N	8.17	129.16	120.83
1	9w	159	GLU	C-N-CA	8.17	129.16	120.83
1	cb	136	LEU	CA-C-N	8.17	129.22	119.99
1	cb	136	LEU	C-N-CA	8.17	129.22	119.99
1	d1	70	LYS	O-C-N	-8.17	113.46	122.12
1	do	59	VAL	CA-C-N	8.17	129.34	120.44
1	do	59	VAL	C-N-CA	8.17	129.34	120.44
1	9M	188	THR	CA-C-N	8.17	131.22	120.28
1	9M	188	THR	C-N-CA	8.17	131.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	109	SER	N-CA-C	8.17	120.45	110.41
1	ae	9	GLN	CB-CG-CD	8.17	126.48	112.60
1	cv	194	ALA	N-CA-C	8.17	120.86	110.24
1	d3	21	ASN	CA-CB-CG	8.17	120.77	112.60
1	fp	179	GLN	N-CA-C	8.17	122.20	111.75
1	fN	177	ALA	N-CA-C	8.17	121.58	110.55
1	h	33	SER	CA-C-O	-8.17	111.36	119.69
1	hB	25	LYS	N-CA-C	8.16	121.21	111.33
1	1V	139	ASN	CA-CB-CG	-8.16	104.44	112.60
1	3M	112	GLN	OE1-CD-NE2	-8.16	114.44	122.60
1	bs	28	GLU	N-CA-C	8.16	119.81	111.07
1	gH	40	PHE	O-C-N	-8.16	113.66	122.07
1	hf	175	GLU	N-CA-C	-8.16	103.52	113.97
1	hD	142	VAL	N-CA-C	8.16	118.94	110.62
1	kS	32	PHE	CA-CB-CG	-8.16	105.64	113.80
1	2X	82	ARG	NE-CZ-NH1	8.16	129.66	121.50
1	38	83	LEU	N-CA-C	8.16	120.18	111.28
1	3z	12	HIS	CE1-NE2-CD2	-8.16	100.84	109.00
1	4Z	25	LYS	N-CA-C	8.16	119.81	111.07
1	6b	29	GLU	N-CA-C	8.16	120.18	111.28
1	84	82	ARG	NE-CZ-NH1	8.16	129.66	121.50
1	9N	80	TRP	N-CA-C	8.16	120.91	111.11
1	bT	140	LYS	N-CA-C	8.16	120.18	111.28
1	cg	179	GLN	CA-C-O	8.16	129.33	120.10
1	8A	107	THR	O-C-N	-8.16	113.22	122.03
1	aF	23	TRP	N-CA-C	8.16	120.26	111.36
1	aH	215	MET	CG-SD-CE	-8.16	82.94	100.90
1	bf	84	HIS	CE1-NE2-CD2	-8.16	100.84	109.00
1	bn	164	TYR	O-C-N	-8.16	113.66	122.07
1	g5	39	MET	N-CA-C	8.16	120.18	111.28
1	by	195	ASN	CA-CB-CG	8.16	120.76	112.60
1	ce	135	ILE	N-CA-C	8.16	118.94	110.62
1	cA	203	LYS	N-CA-C	8.16	120.18	111.28
1	dh	28	GLU	O-C-N	-8.16	112.84	122.15
1	1w	133	TRP	N-CA-C	8.16	120.91	111.11
1	fZ	152	ASP	CA-CB-CG	-8.16	104.44	112.60
1	g5	84	HIS	CA-CB-CG	8.16	121.96	113.80
1	b	206	GLY	CA-C-N	8.16	130.04	119.84
1	b	206	GLY	C-N-CA	8.16	130.04	119.84
1	A	30	LYS	CA-C-N	8.16	131.22	120.28
1	A	30	LYS	C-N-CA	8.16	131.22	120.28
1	gw	69	LEU	N-CA-C	8.16	120.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	201	ILE	N-CA-C	8.16	118.25	110.42
1	it	183	ASN	N-CA-C	8.16	119.80	111.07
1	3g	57	ASN	CA-CB-CG	-8.16	104.44	112.60
1	5H	228	ALA	N-CA-C	8.16	120.18	111.28
1	8s	95	GLN	OE1-CD-NE2	-8.16	114.44	122.60
1	8z	156	GLY	CA-C-N	8.16	130.04	119.84
1	aS	183	ASN	CA-C-N	8.16	131.56	120.54
1	iT	154	ARG	NE-CZ-NH2	8.16	126.54	119.20
1	jf	129	ILE	O-C-N	-8.16	113.42	121.83
1	8z	156	GLY	C-N-CA	8.16	130.04	119.84
1	aS	183	ASN	C-N-CA	8.16	131.56	120.54
1	jk	7	GLN	N-CA-CB	8.16	122.13	109.48
1	jC	187	GLU	CA-C-N	8.16	131.05	120.44
1	jC	187	GLU	C-N-CA	8.16	131.05	120.44
1	jV	119	THR	CA-C-O	8.16	128.45	119.15
1	km	228	ALA	CA-C-O	8.16	131.19	121.65
1	kU	203	LYS	N-CA-C	8.16	121.09	111.71
1	lm	140	LYS	N-CA-C	8.16	119.80	111.07
1	lt	87	HIS	CA-CB-CG	8.16	121.96	113.80
1	3t	57	ASN	N-CA-C	8.16	120.17	111.28
1	3E	163	ASP	CA-CB-CG	8.16	120.76	112.60
1	3N	173	ARG	O-C-N	-8.16	113.47	122.12
1	58	70	LYS	O-C-N	-8.16	113.67	122.07
1	59	138	LEU	CA-C-N	8.16	131.05	120.44
1	59	138	LEU	C-N-CA	8.16	131.05	120.44
1	7l	48	THR	CA-C-N	8.16	130.04	119.84
1	7l	48	THR	C-N-CA	8.16	130.04	119.84
1	8r	115	ILE	CA-C-N	8.16	129.21	119.99
1	8r	115	ILE	C-N-CA	8.16	129.21	119.99
1	9N	156	GLY	CA-C-N	8.16	128.85	120.04
1	9N	156	GLY	C-N-CA	8.16	128.85	120.04
1	9Z	97	ARG	NE-CZ-NH2	-8.16	111.86	119.20
1	aa	22	ALA	CA-C-N	8.16	131.22	120.28
1	aa	22	ALA	C-N-CA	8.16	131.22	120.28
1	cq	224	PRO	CB-CA-C	8.16	122.00	111.64
1	cN	161	PHE	O-C-N	-8.16	113.47	122.12
1	ee	204	ALA	N-CA-C	8.16	120.17	111.28
1	1D	139	ASN	O-C-N	-8.16	113.47	122.12
1	hk	168	PHE	CA-CB-CG	-8.16	105.64	113.80
1	hs	73	ILE	N-CA-C	8.16	118.92	110.36
1	hO	124	ILE	CA-C-O	-8.16	113.25	119.20
1	in	134	ILE	N-CA-C	8.16	118.25	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	177	ALA	O-C-N	-8.16	114.69	123.26
1	1Y	87	HIS	CA-C-O	8.16	130.12	121.15
1	24	78	ALA	N-CA-C	8.16	120.17	111.28
1	2P	136	LEU	N-CA-C	8.16	120.17	111.28
1	3k	167	ARG	NE-CZ-NH2	-8.16	111.86	119.20
1	4P	221	VAL	N-CA-C	8.16	120.30	107.98
1	b1	37	ILE	O-C-N	-8.16	115.20	120.42
1	1p	5	ASN	CA-C-N	8.16	131.56	120.38
1	1p	5	ASN	C-N-CA	8.16	131.56	120.38
1	1O	152	ASP	O-C-N	-8.16	112.55	122.34
1	iJ	98	GLU	CA-C-N	8.16	128.66	119.93
1	iJ	98	GLU	C-N-CA	8.16	128.66	119.93
1	iS	145	TYR	O-C-N	-8.16	113.47	122.12
1	iT	127	GLY	CA-C-O	8.16	128.82	120.09
1	lc	210	THR	CA-C-N	8.16	131.21	120.28
1	lc	210	THR	C-N-CA	8.16	131.21	120.28
1	lh	4	GLN	N-CA-C	8.16	122.35	110.28
1	lt	26	VAL	N-CA-C	8.16	118.94	110.62
1	2S	127	GLY	O-C-N	-8.16	114.28	122.19
1	3R	190	LEU	CA-C-O	8.16	129.20	120.55
1	lu	114	GLN	CA-C-N	8.16	133.36	120.47
1	lu	114	GLN	C-N-CA	8.16	133.36	120.47
1	3X	186	THR	CA-C-O	8.16	129.43	119.31
1	4r	139	ASN	CA-CB-CG	8.16	120.76	112.60
1	4S	24	VAL	CA-C-O	8.16	129.43	120.95
1	6a	82	ARG	NH1-CZ-NH2	-8.16	108.70	119.30
1	eR	138	LEU	O-C-N	-8.16	113.47	122.12
1	9w	4	GLN	N-CA-C	-8.16	96.46	109.59
1	bj	20	LEU	O-C-N	-8.16	113.47	122.12
1	bO	72	THR	O-C-N	8.16	131.49	122.11
1	f7	80	TRP	CB-CG-CD1	-8.16	114.67	126.90
1	hB	64	ALA	CA-C-N	8.15	131.21	120.28
1	hB	64	ALA	C-N-CA	8.15	131.21	120.28
1	kH	11	VAL	O-C-N	-8.15	114.39	123.20
1	2N	125	PRO	CA-C-N	8.15	133.35	120.47
1	2N	125	PRO	C-N-CA	8.15	133.35	120.47
1	5F	146	SER	O-C-N	-8.15	113.86	121.20
1	7G	75	GLU	N-CA-C	8.15	119.80	111.07
1	88	12	HIS	CG-CD2-NE2	8.15	115.36	107.20
1	8j	136	LEU	N-CA-C	8.15	119.80	111.07
1	cb	35	GLU	N-CA-C	8.15	122.49	112.54
1	ex	229	ARG	NE-CZ-NH1	8.15	129.66	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f4	199	LYS	CA-C-N	8.15	131.04	120.44
1	f4	199	LYS	C-N-CA	8.15	131.04	120.44
1	fn	126	VAL	O-C-N	-8.15	113.90	121.89
1	e	93	PRO	O-C-N	8.15	131.87	122.98
1	ij	124	ILE	CA-C-O	8.15	125.45	119.25
1	jl	119	THR	CA-C-N	8.15	134.65	120.87
1	jl	119	THR	C-N-CA	8.15	134.65	120.87
1	jI	84	HIS	CE1-NE2-CD2	-8.15	100.85	109.00
1	jO	12	HIS	CE1-NE2-CD2	-8.15	100.85	109.00
1	25	171	THR	O-C-N	-8.15	112.86	122.15
1	2t	105	ALA	N-CA-CB	-8.15	99.31	110.56
1	2Y	132	ARG	NE-CZ-NH2	-8.15	111.86	119.20
1	37	16	SER	O-C-N	-8.15	111.28	121.64
1	b5	189	LEU	CA-C-N	8.15	131.21	120.28
1	b5	189	LEU	C-N-CA	8.15	131.21	120.28
1	T	217	ALA	N-CA-C	8.15	120.90	111.11
1	1i	195	ASN	CA-CB-CG	-8.15	104.45	112.60
1	dx	124	ILE	CB-CA-C	8.15	120.66	111.04
1	1v	73	ILE	CA-C-O	-8.15	112.47	120.95
1	fb	71	GLU	CA-C-N	8.15	131.04	120.44
1	fb	71	GLU	C-N-CA	8.15	131.04	120.44
1	r	120	HIS	CA-CB-CG	-8.15	105.65	113.80
1	23	12	HIS	CE1-NE2-CD2	-8.15	100.85	109.00
1	4z	15	ILE	O-C-N	-8.15	114.88	122.79
1	4J	62	HIS	CA-CB-CG	8.15	121.95	113.80
1	5f	174	ALA	N-CA-C	8.15	120.97	111.02
1	cL	131	LYS	N-CA-C	8.15	120.17	111.28
1	ds	165	VAL	CA-C-N	8.15	131.04	120.44
1	ds	165	VAL	C-N-CA	8.15	131.04	120.44
1	dO	204	ALA	CA-C-N	8.15	131.20	120.28
1	dO	204	ALA	C-N-CA	8.15	131.20	120.28
1	ka	132	ARG	N-CA-C	8.15	120.24	111.36
1	l6	171	THR	CA-C-O	8.15	129.34	119.97
1	2o	11	VAL	N-CA-C	8.15	119.65	107.51
1	2p	124	ILE	O-C-N	-8.15	116.24	121.37
1	47	125	PRO	CA-C-N	8.15	132.02	120.53
1	47	125	PRO	C-N-CA	8.15	132.02	120.53
1	5l	227	LYS	CA-C-N	8.15	132.28	120.71
1	5l	227	LYS	C-N-CA	8.15	132.28	120.71
1	cT	41	SER	N-CA-CB	8.15	122.29	110.06
1	5Z	58	THR	CA-C-O	8.15	129.06	120.42
1	63	204	ALA	N-CA-C	8.15	120.16	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	68	229	ARG	NE-CZ-NH1	8.15	129.65	121.50
1	6p	100	ARG	NE-CZ-NH1	8.15	129.65	121.50
1	7E	38	PRO	O-C-N	-8.15	112.04	122.23
1	8V	168	PHE	CA-C-N	8.15	131.03	120.44
1	8V	168	PHE	C-N-CA	8.15	131.03	120.44
1	9E	180	GLU	N-CA-C	8.15	120.17	111.28
1	9N	169	TYR	N-CA-C	8.15	119.79	111.07
1	Y	54	THR	O-C-N	-8.15	113.48	122.12
1	aj	160	PRO	O-C-N	-8.15	114.18	123.23
1	aB	179	GLN	O-C-N	-8.15	113.48	122.12
1	bd	86	VAL	N-CA-C	8.15	122.66	109.78
1	da	169	TYR	N-CA-C	8.15	120.17	111.28
1	de	144	MET	N-CA-C	-8.15	102.90	113.17
1	dh	33	SER	N-CA-C	-8.15	100.79	108.13
1	dL	65	ALA	O-C-N	-8.15	112.86	122.15
1	eR	138	LEU	CA-C-O	8.15	129.19	120.55
1	f6	70	LYS	N-CA-C	8.15	120.89	111.11
1	dk	229	ARG	NE-CZ-NH1	8.15	129.65	121.50
1	dW	210	THR	CA-C-N	8.15	131.54	120.38
1	dW	210	THR	C-N-CA	8.15	131.54	120.38
1	ev	182	LYS	N-CA-C	8.15	119.79	111.07
1	eW	101	GLY	CA-C-N	8.15	131.20	120.28
1	eW	101	GLY	C-N-CA	8.15	131.20	120.28
1	f9	168	PHE	O-C-N	8.15	130.76	122.12
1	ff	174	ALA	CA-C-N	8.15	132.44	120.87
1	ff	174	ALA	C-N-CA	8.15	132.44	120.87
1	fX	82	ARG	NE-CZ-NH2	-8.15	111.86	119.20
1	gL	116	GLY	N-CA-C	8.15	121.95	112.50
1	iK	40	PHE	CA-CB-CG	8.15	121.95	113.80
1	jk	132	ARG	N-CA-C	8.15	121.08	111.71
1	l4	54	THR	CA-C-N	8.15	131.54	120.54
1	l4	54	THR	C-N-CA	8.15	131.54	120.54
1	50	168	PHE	CA-CB-CG	8.15	121.95	113.80
1	5t	23	TRP	CB-CG-CD1	-8.15	114.68	126.90
1	5x	193	ASN	CA-CB-CG	-8.15	104.45	112.60
1	5C	22	ALA	O-C-N	-8.15	113.62	122.09
1	5D	68	MET	CA-C-N	8.15	131.52	120.44
1	5D	68	MET	C-N-CA	8.15	131.52	120.44
1	6v	160	PRO	CA-C-N	8.15	131.54	120.38
1	6v	160	PRO	C-N-CA	8.15	131.54	120.38
1	8E	189	LEU	N-CA-C	8.15	120.16	111.28
1	do	124	ILE	N-CA-CB	8.15	119.75	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g7	87	HIS	CE1-NE2-CD2	-8.15	100.85	109.00
1	hp	185	MET	N-CA-C	8.15	119.79	111.07
1	22	98	GLU	CA-C-O	-8.15	113.27	120.60
1	kY	221	VAL	N-CA-C	8.15	121.16	109.51
1	lq	72	THR	N-CA-C	8.15	120.16	111.28
1	5t	167	ARG	CA-C-N	8.15	131.41	120.65
1	5t	167	ARG	C-N-CA	8.15	131.41	120.65
1	7b	55	MET	N-CA-C	8.15	120.16	111.28
1	aY	92	GLU	CA-C-N	8.15	128.65	119.93
1	aY	92	GLU	C-N-CA	8.15	128.65	119.93
1	9x	173	ARG	CA-C-N	8.15	131.03	120.44
1	9x	173	ARG	C-N-CA	8.15	131.03	120.44
1	ap	81	ASP	CA-CB-CG	-8.15	104.45	112.60
1	b7	4	GLN	OE1-CD-NE2	-8.15	114.45	122.60
1	ej	175	GLU	CA-C-O	8.15	130.29	120.92
1	d	24	VAL	CA-C-N	8.15	131.19	120.28
1	d	24	VAL	C-N-CA	8.15	131.19	120.28
1	R	74	ASN	CA-CB-CG	-8.15	104.45	112.60
1	T	111	LEU	N-CA-C	8.15	121.19	111.33
1	hS	210	THR	CA-C-N	8.14	131.19	120.28
1	hS	210	THR	C-N-CA	8.14	131.19	120.28
1	im	223	GLY	O-C-N	-8.14	115.09	122.42
1	2A	82	ARG	NE-CZ-NH1	8.14	129.65	121.50
1	32	53	ASN	CA-CB-CG	-8.14	104.45	112.60
1	8I	25	LYS	N-CA-C	8.14	120.16	111.28
1	hN	188	THR	CA-C-N	8.14	131.03	120.44
1	hN	188	THR	C-N-CA	8.14	131.03	120.44
1	5U	135	ILE	N-CA-C	8.14	119.90	110.62
1	7r	65	ALA	N-CA-C	8.14	119.78	111.07
1	ae	39	MET	CA-C-O	-8.14	112.27	120.82
1	am	205	LEU	CA-C-N	8.14	134.66	121.87
1	am	205	LEU	C-N-CA	8.14	134.66	121.87
1	b0	200	THR	CA-C-N	8.14	131.98	120.42
1	b0	200	THR	C-N-CA	8.14	131.98	120.42
1	cw	37	ILE	N-CA-CB	8.14	116.80	110.45
1	cL	181	VAL	O-C-N	-8.14	113.97	121.87
1	e9	209	ALA	CA-C-O	8.14	129.84	120.96
1	fA	170	LYS	CA-C-N	8.14	131.03	120.44
1	et	36	VAL	CA-C-N	8.14	125.37	120.24
1	et	36	VAL	C-N-CA	8.14	125.37	120.24
1	eY	77	ALA	N-CA-C	8.14	120.16	111.28
1	fA	170	LYS	C-N-CA	8.14	131.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g4	39	MET	CA-C-N	8.14	131.03	120.44
1	g4	39	MET	C-N-CA	8.14	131.03	120.44
1	gu	53	ASN	CA-CB-CG	-8.14	104.46	112.60
1	gK	161	PHE	CA-C-N	8.14	131.53	120.38
1	gK	161	PHE	C-N-CA	8.14	131.53	120.38
1	ip	213	GLU	CA-C-O	-8.14	112.45	121.00
1	1Q	229	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	5B	188	THR	O-C-N	-8.14	111.76	122.59
1	5I	212	GLU	CA-C-O	8.14	129.18	120.55
1	av	71	GLU	N-CA-C	8.14	120.16	111.28
1	cr	198	CYS	CA-C-N	8.14	131.19	120.28
1	cr	198	CYS	C-N-CA	8.14	131.19	120.28
1	cU	40	PHE	CA-C-N	8.14	131.02	120.44
1	fO	164	TYR	CB-CA-C	8.14	123.77	110.90
1	i6	26	VAL	N-CA-C	8.14	118.91	110.36
1	iJ	60	GLY	CA-C-N	8.14	127.83	120.10
1	iJ	60	GLY	C-N-CA	8.14	127.83	120.10
1	kh	120	HIS	CE1-NE2-CD2	-8.14	100.86	109.00
1	kH	69	LEU	O-C-N	-8.14	112.87	122.15
1	25	67	GLN	CA-C-O	8.14	129.18	120.55
1	lR	54	THR	CA-C-N	8.14	131.53	120.54
1	lR	54	THR	C-N-CA	8.14	131.53	120.54
1	5z	77	ALA	CA-C-O	8.14	129.42	120.63
1	6G	127	GLY	CA-C-N	8.14	131.19	120.28
1	6G	127	GLY	C-N-CA	8.14	131.19	120.28
1	91	96	MET	N-CA-C	8.14	120.16	111.28
1	cU	40	PHE	C-N-CA	8.14	131.02	120.44
1	2p	53	ASN	CA-CB-CG	-8.14	104.46	112.60
1	3Q	11	VAL	CA-CB-CG1	8.14	124.24	110.40
1	59	137	GLY	CA-C-O	8.14	129.29	120.66
1	5d	35	GLU	O-C-N	-8.14	111.81	122.39
1	6H	64	ALA	N-CA-C	8.14	119.78	111.07
1	9N	12	HIS	CB-CG-ND1	8.14	134.91	122.70
1	9X	5	ASN	CA-CB-CG	8.14	120.74	112.60
1	bu	101	GLY	O-C-N	-8.14	114.27	122.17
1	bE	5	ASN	CA-CB-CG	8.14	120.74	112.60
1	bE	36	VAL	CA-C-N	8.14	125.37	120.24
1	bE	36	VAL	C-N-CA	8.14	125.37	120.24
1	c1	86	VAL	O-C-N	-8.14	114.37	122.67
1	ce	66	MET	N-CA-C	8.14	120.88	111.11
1	ch	81	ASP	CA-C-N	8.14	131.19	120.28
1	ch	81	ASP	C-N-CA	8.14	131.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	63	GLN	OE1-CD-NE2	-8.14	114.46	122.60
1	dq	139	ASN	CA-CB-CG	-8.14	104.46	112.60
1	dT	168	PHE	CA-C-N	8.14	131.19	120.28
1	dT	168	PHE	C-N-CA	8.14	131.19	120.28
1	1u	115	ILE	N-CA-C	-8.14	102.88	110.53
1	f5	83	LEU	O-C-N	-8.14	113.69	122.07
1	f9	4	GLN	OE1-CD-NE2	-8.14	114.46	122.60
1	fP	51	ASP	CA-CB-CG	-8.14	104.46	112.60
1	b	5	ASN	CA-CB-CG	8.14	120.74	112.60
1	gC	214	MET	N-CA-C	8.14	120.95	111.02
1	j6	171	THR	N-CA-C	8.14	121.18	111.33
1	29	159	GLU	CA-C-N	8.14	130.01	119.84
1	29	159	GLU	C-N-CA	8.14	130.01	119.84
1	2S	115	ILE	CA-C-N	8.14	129.15	120.03
1	2S	115	ILE	C-N-CA	8.14	129.15	120.03
1	3s	164	TYR	CB-CG-CD2	-8.14	108.59	120.80
1	3x	126	VAL	CA-C-N	8.14	129.01	119.98
1	3x	126	VAL	C-N-CA	8.14	129.01	119.98
1	8K	100	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	ct	10	MET	N-CA-C	8.14	120.43	110.91
1	fW	123	PRO	CA-C-N	8.14	128.45	122.59
1	fW	123	PRO	C-N-CA	8.14	128.45	122.59
1	jk	12	HIS	CB-CG-CD2	-8.14	120.62	131.20
1	kE	38	PRO	CA-C-N	8.14	131.02	120.44
1	kE	38	PRO	C-N-CA	8.14	131.02	120.44
1	lM	18	ARG	NE-CZ-NH2	8.14	126.52	119.20
1	2o	51	ASP	CA-C-N	8.14	131.02	120.44
1	2o	51	ASP	C-N-CA	8.14	131.02	120.44
1	2R	163	ASP	CA-CB-CG	8.14	120.74	112.60
1	2V	96	MET	N-CA-C	8.14	120.82	110.24
1	3A	63	GLN	N-CA-C	8.14	120.88	111.11
1	4c	178	SER	CA-C-N	8.14	131.02	120.44
1	4c	178	SER	C-N-CA	8.14	131.02	120.44
1	5N	129	ILE	CA-C-N	8.14	131.02	120.44
1	5N	129	ILE	C-N-CA	8.14	131.02	120.44
1	7l	43	LEU	CA-C-O	8.14	129.08	119.56
1	7x	179	GLN	CA-C-O	8.14	129.33	119.97
1	7t	179	GLN	N-CA-C	8.14	121.18	111.33
1	7u	177	ALA	N-CA-C	8.14	120.83	110.33
1	7y	24	VAL	N-CA-C	8.14	118.23	110.42
1	8Q	9	GLN	OE1-CD-NE2	8.14	130.74	122.60
1	87	201	ILE	O-C-N	8.14	130.08	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aK	27	VAL	O-C-N	-8.14	113.65	121.87
1	bA	229	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	cg	126	VAL	N-CA-C	8.14	118.92	110.62
1	1e	177	ALA	N-CA-C	8.14	120.82	110.24
1	cs	18	ARG	CA-C-N	8.14	131.02	120.44
1	cs	18	ARG	C-N-CA	8.14	131.02	120.44
1	eH	156	GLY	O-C-N	-8.14	113.63	121.77
1	eU	169	TYR	CA-C-N	8.14	131.53	120.54
1	eU	169	TYR	C-N-CA	8.14	131.53	120.54
1	fB	82	ARG	N-CA-C	8.14	120.15	111.28
1	fM	129	ILE	N-CA-CB	8.14	120.07	110.55
1	e	219	GLN	CA-C-N	8.14	130.31	120.14
1	e	219	GLN	C-N-CA	8.14	130.31	120.14
1	x	143	ARG	NE-CZ-NH1	8.14	129.64	121.50
1	z	97	ARG	NH1-CZ-NH2	-8.14	108.72	119.30
1	H	70	LYS	N-CA-C	8.14	120.15	111.28
1	4	201	ILE	CA-C-N	8.14	131.02	120.44
1	4	201	ILE	C-N-CA	8.14	131.02	120.44
1	gh	116	GLY	O-C-N	-8.14	114.37	122.18
1	1F	82	ARG	CA-C-N	8.14	131.84	120.29
1	1F	82	ARG	C-N-CA	8.14	131.84	120.29
1	hN	95	GLN	OE1-CD-NE2	-8.14	114.46	122.60
1	ei	158	LYS	CA-C-O	8.14	129.79	119.95
1	D	215	MET	CA-C-N	8.14	131.18	120.28
1	h0	185	MET	N-CA-C	8.13	120.15	111.28
1	i3	214	MET	N-CA-C	8.13	120.23	111.36
1	if	223	GLY	CA-C-N	8.14	130.01	119.84
1	if	223	GLY	C-N-CA	8.14	130.01	119.84
1	k9	115	ILE	CA-C-N	8.14	128.95	120.00
1	58	59	VAL	N-CA-C	-8.14	102.32	110.62
1	6K	15	ILE	N-CA-C	8.14	120.35	109.37
1	D	215	MET	C-N-CA	8.14	131.18	120.28
1	ij	162	ARG	CA-C-N	8.13	131.01	120.44
1	ij	162	ARG	C-N-CA	8.13	131.01	120.44
1	iX	21	ASN	CA-CB-CG	-8.13	104.47	112.60
1	k9	115	ILE	C-N-CA	8.14	128.95	120.00
1	j8	126	VAL	N-CA-CB	8.13	121.60	110.54
1	ls	114	GLN	OE1-CD-NE2	-8.13	114.47	122.60
1	5z	63	GLN	N-CA-C	8.13	119.77	111.07
1	81	67	GLN	CA-C-O	8.14	129.18	120.55
1	6b	164	TYR	N-CA-C	8.13	119.77	111.07
1	6F	226	HIS	CA-CB-CG	-8.13	105.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Y	37	ILE	N-CA-CB	-8.13	104.11	110.45
1	76	68	MET	O-C-N	-8.13	113.50	122.12
1	7E	38	PRO	CA-C-N	8.13	131.01	120.44
1	7E	38	PRO	C-N-CA	8.13	131.01	120.44
1	83	74	ASN	N-CA-C	8.13	120.15	111.28
1	9g	162	ARG	N-CA-C	8.14	120.15	111.28
1	bJ	14	ALA	CA-C-O	8.14	130.23	121.44
1	8V	143	ARG	NE-CZ-NH1	8.13	129.63	121.50
1	9X	193	ASN	CA-CB-CG	-8.13	104.47	112.60
1	s	84	HIS	CA-C-N	8.14	130.01	119.84
1	a5	71	GLU	N-CA-C	8.13	120.15	111.28
1	aO	167	ARG	NE-CZ-NH1	8.13	129.63	121.50
1	bK	184	TRP	CA-C-N	8.13	131.01	120.44
1	bK	184	TRP	C-N-CA	8.13	131.01	120.44
1	c2	192	GLN	OE1-CD-NE2	-8.13	114.47	122.60
1	c5	135	ILE	N-CA-C	8.13	119.89	110.62
1	cp	184	TRP	O-C-N	-8.14	113.50	122.12
1	da	115	ILE	CA-C-N	8.13	128.97	119.94
1	da	115	ILE	C-N-CA	8.13	128.97	119.94
1	en	77	ALA	N-CA-C	8.13	120.15	111.28
1	fb	229	ARG	O-C-N	-8.13	111.77	122.59
1	s	84	HIS	C-N-CA	8.14	130.01	119.84
1	s	103	ASP	CA-C-N	8.14	131.61	120.46
1	s	103	ASP	C-N-CA	8.14	131.61	120.46
1	fr	44	SER	O-C-N	-8.13	112.58	122.34
1	iN	192	GLN	CG-CD-OE1	8.13	137.06	120.80
1	iU	92	GLU	O-C-N	-8.13	112.58	121.53
1	jp	148	THR	N-CA-CB	8.13	124.23	110.49
1	jA	169	TYR	N-CA-C	8.13	120.14	111.28
1	k1	50	GLN	N-CA-C	8.13	121.06	111.71
1	2n	67	GLN	N-CA-C	8.13	121.17	111.33
1	5R	92	GLU	CA-C-O	-8.13	113.64	120.71
1	70	61	GLY	N-CA-C	8.13	123.15	112.25
1	7e	30	LYS	CA-C-O	8.13	128.04	118.69
1	7z	229	ARG	NE-CZ-NH2	8.13	126.52	119.20
1	bV	154	ARG	NE-CZ-NH2	-8.13	111.88	119.20
1	1h	176	GLN	CA-C-N	8.13	132.37	120.90
1	cU	62	HIS	CB-CG-CD2	-8.13	120.63	131.20
1	dE	138	LEU	CA-C-N	8.13	131.18	120.28
1	dE	138	LEU	C-N-CA	8.13	131.18	120.28
1	ff	173	ARG	NE-CZ-NH1	8.13	129.63	121.50
1	gM	200	THR	O-C-N	-8.13	113.50	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hx	37	ILE	O-C-N	-8.13	115.22	120.42
1	ia	155	GLN	N-CA-C	8.13	120.86	109.15
1	j6	192	GLN	O-C-N	-8.13	113.69	122.07
1	k0	162	ARG	O-C-N	8.13	130.54	122.09
1	k2	36	VAL	O-C-N	-8.13	113.66	121.87
1	kS	61	GLY	O-C-N	-8.13	115.82	122.81
1	kT	36	VAL	CA-C-N	8.13	126.83	120.33
1	kT	36	VAL	C-N-CA	8.13	126.83	120.33
1	lA	180	GLU	O-C-N	-8.13	113.50	122.12
1	3R	54	THR	O-C-N	-8.13	113.50	122.12
1	42	85	PRO	N-CA-C	8.13	124.00	111.15
1	1h	176	GLN	C-N-CA	8.13	132.37	120.90
1	6g	17	PRO	CA-C-N	8.13	131.51	120.54
1	6g	17	PRO	C-N-CA	8.13	131.51	120.54
1	6A	21	ASN	CA-CB-CG	-8.13	104.47	112.60
1	ad	174	ALA	N-CA-C	8.13	121.25	111.82
1	bY	97	ARG	CB-CA-C	8.13	123.22	109.72
1	dH	223	GLY	CA-C-N	8.13	130.00	119.84
1	dH	223	GLY	C-N-CA	8.13	130.00	119.84
1	eq	213	GLU	CA-C-N	8.13	131.01	120.44
1	eq	213	GLU	C-N-CA	8.13	131.01	120.44
1	d	199	LYS	O-C-N	8.13	130.44	122.07
1	gP	4	GLN	N-CA-C	8.13	121.96	110.50
1	h9	33	SER	CA-C-O	-8.13	113.36	120.19
1	1M	142	VAL	N-CA-C	8.13	118.22	110.42
1	1R	132	ARG	NE-CZ-NH1	8.13	129.63	121.50
1	ll	212	GLU	CA-C-N	8.13	131.50	120.44
1	ll	212	GLU	C-N-CA	8.13	131.50	120.44
1	lC	117	TRP	O-C-N	-8.13	112.27	122.27
1	2g	115	ILE	CA-C-N	8.13	129.18	119.99
1	2g	115	ILE	C-N-CA	8.13	129.18	119.99
1	6k	31	ALA	N-CA-C	8.13	120.14	111.28
1	fe	120	HIS	CE1-NE2-CD2	-8.13	100.87	109.00
1	hg	165	VAL	N-CA-C	8.13	118.89	110.36
1	hl	25	LYS	O-C-N	-8.13	113.50	122.12
1	i1	83	LEU	N-CA-C	8.13	120.86	111.11
1	iE	140	LYS	CA-C-N	8.13	130.80	120.56
1	iE	140	LYS	C-N-CA	8.13	130.80	120.56
1	jF	187	GLU	N-CA-C	8.13	120.14	111.28
1	jN	142	VAL	N-CA-C	8.13	118.89	110.36
1	e7	132	ARG	N-CA-CB	-8.13	98.17	110.12
1	jY	57	ASN	CA-CB-CG	-8.13	104.47	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kb	167	ARG	NE-CZ-NH1	8.13	129.63	121.50
1	2f	189	LEU	CA-C-N	8.13	131.00	120.44
1	2f	189	LEU	C-N-CA	8.13	131.00	120.44
1	36	110	THR	O-C-N	-8.13	113.34	123.17
1	37	79	GLU	CA-C-N	8.13	131.51	120.54
1	37	79	GLU	C-N-CA	8.13	131.51	120.54
1	3l	195	ASN	CA-C-O	-8.13	111.72	120.17
1	6h	169	TYR	N-CA-C	8.13	119.77	111.07
1	6w	46	GLY	O-C-N	-8.13	111.54	122.35
1	6K	122	PRO	CA-C-N	8.13	128.18	119.89
1	6K	122	PRO	C-N-CA	8.13	128.18	119.89
1	8j	167	ARG	N-CA-C	8.13	119.77	111.07
1	aL	144	MET	CA-C-O	8.13	129.16	120.55
1	bh	40	PHE	N-CA-C	8.13	120.14	111.28
1	1b	171	THR	N-CA-CB	8.13	122.07	110.12
1	cO	92	GLU	CA-C-N	8.13	130.00	119.84
1	cO	92	GLU	C-N-CA	8.13	130.00	119.84
1	cR	161	PHE	CA-CB-CG	-8.13	105.67	113.80
1	du	137	GLY	N-CA-C	8.13	122.48	112.73
1	dI	92	GLU	N-CA-C	8.13	119.96	109.64
1	ff	74	ASN	N-CA-C	8.13	119.77	111.07
1	1x	198	CYS	CA-C-O	8.13	129.04	120.42
1	fQ	37	ILE	N-CA-CB	8.13	116.79	110.45
1	N	63	GLN	CA-C-N	8.13	131.01	120.44
1	N	63	GLN	C-N-CA	8.13	131.01	120.44
1	gB	213	GLU	N-CA-CB	8.12	122.19	110.16
1	hp	21	ASN	CA-CB-CG	8.12	120.72	112.60
1	i6	66	MET	N-CA-C	8.12	121.16	111.33
1	jh	206	GLY	O-C-N	-8.13	113.64	121.77
1	fA	103	ASP	CA-CB-CG	-8.13	104.47	112.60
1	ip	33	SER	CA-C-N	8.12	129.47	120.45
1	ip	33	SER	C-N-CA	8.12	129.47	120.45
1	iQ	110	THR	CA-C-O	8.12	130.42	121.56
1	jR	75	GLU	CA-C-O	8.12	129.35	120.82
1	2n	22	ALA	CA-C-N	8.12	131.51	120.54
1	2n	22	ALA	C-N-CA	8.12	131.51	120.54
1	4h	192	GLN	N-CA-C	8.12	120.14	111.28
1	5i	37	ILE	CA-C-N	8.12	127.80	119.19
1	5i	37	ILE	C-N-CA	8.12	127.80	119.19
1	6p	100	ARG	CA-C-N	8.13	130.54	120.22
1	6p	100	ARG	C-N-CA	8.13	130.54	120.22
1	6u	7	GLN	N-CA-C	8.13	121.52	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6E	149	SER	CA-C-O	8.13	129.14	120.36
1	du	19	THR	CA-C-N	8.13	131.49	120.44
1	du	19	THR	C-N-CA	8.13	131.49	120.44
1	fb	195	ASN	CA-CB-CG	8.13	120.73	112.60
1	6i	34	PRO	CA-C-N	8.12	132.66	120.31
1	6i	34	PRO	C-N-CA	8.12	132.66	120.31
1	7j	75	GLU	N-CA-C	8.12	120.22	111.36
1	9v	16	SER	O-C-N	-8.12	111.98	121.32
1	aa	63	GLN	CA-C-O	8.12	129.07	120.70
1	ce	67	GLN	CA-C-O	-8.12	111.81	120.42
1	1i	53	ASN	CA-CB-CG	-8.12	104.47	112.60
1	f2	126	VAL	O-C-N	-8.12	113.99	121.87
1	E	37	ILE	N-CA-CB	8.13	115.96	110.52
1	h1	229	ARG	NE-CZ-NH2	-8.12	111.89	119.20
1	h9	162	ARG	N-CA-C	8.12	121.16	111.33
1	km	53	ASN	CA-CB-CG	-8.12	104.48	112.60
1	hz	186	THR	O-C-N	-8.12	113.71	122.07
1	hH	154	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	hO	214	MET	N-CA-C	8.12	121.05	111.71
1	ik	173	ARG	O-C-N	-8.12	113.51	122.12
1	ir	120	HIS	CE1-NE2-CD2	-8.12	100.88	109.00
1	jU	82	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	22	185	MET	N-CA-C	8.12	120.13	111.28
1	g1	179	GLN	N-CA-C	8.12	120.14	111.28
1	1Z	125	PRO	CA-C-N	8.12	131.98	120.53
1	1Z	125	PRO	C-N-CA	8.12	131.98	120.53
1	kG	2	ILE	O-C-N	8.12	129.40	122.09
1	kH	132	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	4v	100	ARG	CA-C-O	8.12	131.25	121.99
1	5B	183	ASN	CA-C-N	8.12	131.16	120.28
1	5B	183	ASN	C-N-CA	8.12	131.16	120.28
1	6B	33	SER	O-C-N	-8.12	114.03	121.66
1	75	212	GLU	CA-C-O	8.12	129.16	120.55
1	7K	37	ILE	CA-C-N	8.12	129.99	119.84
1	7K	37	ILE	C-N-CA	8.12	129.99	119.84
1	8X	195	ASN	CA-C-N	8.12	127.70	118.85
1	8X	195	ASN	C-N-CA	8.12	127.70	118.85
1	9l	84	HIS	CA-CB-CG	-8.12	105.68	113.80
1	9U	143	ARG	NE-CZ-NH2	-8.12	111.89	119.20
1	a5	33	SER	O-C-N	-8.12	114.64	121.54
1	aw	195	ASN	CA-C-N	8.12	129.99	119.84
1	aw	195	ASN	C-N-CA	8.12	129.99	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c2	41	SER	CA-C-N	8.12	131.82	120.29
1	c2	41	SER	C-N-CA	8.12	131.82	120.29
1	cb	32	PHE	CA-CB-CG	-8.12	105.68	113.80
1	cC	82	ARG	N-CA-C	8.12	121.24	111.82
1	do	65	ALA	CA-C-O	8.12	129.03	120.42
1	dD	167	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	dV	32	PHE	N-CA-C	-8.12	103.09	113.16
1	ew	10	MET	CA-C-N	8.12	132.03	120.98
1	ew	10	MET	C-N-CA	8.12	132.03	120.98
1	fV	12	HIS	CA-CB-CG	-8.12	105.68	113.80
1	eM	29	GLU	O-C-N	-8.12	113.71	122.07
1	fj	164	TYR	N-CA-C	8.12	120.13	111.28
1	fr	162	ARG	N-CA-C	8.12	121.05	111.71
1	fD	51	ASP	CA-CB-CG	-8.12	104.48	112.60
1	fN	183	ASN	CA-C-N	8.12	131.00	120.44
1	fN	183	ASN	C-N-CA	8.12	131.00	120.44
1	1A	193	ASN	CA-CB-CG	-8.12	104.48	112.60
1	fZ	121	ASN	CA-CB-CG	-8.12	104.48	112.60
1	hb	76	GLU	N-CA-C	8.12	120.21	111.36
1	hc	73	ILE	O-C-N	-8.12	114.00	121.87
1	hw	124	ILE	O-C-N	-8.12	116.25	121.37
1	ip	63	GLN	N-CA-C	8.12	120.13	111.28
1	iY	110	THR	O-C-N	-8.12	113.53	122.79
1	jB	78	ALA	CA-C-N	8.12	131.16	120.28
1	jB	78	ALA	C-N-CA	8.12	131.16	120.28
1	ln	68	MET	N-CA-C	8.12	120.13	111.28
1	3R	163	ASP	CA-C-N	8.12	131.48	120.44
1	3R	163	ASP	C-N-CA	8.12	131.48	120.44
1	5Y	203	LYS	N-CA-C	8.12	119.76	111.07
1	6p	148	THR	CA-C-O	8.12	129.10	119.28
1	6z	152	ASP	CA-CB-CG	-8.12	104.48	112.60
1	79	182	LYS	N-CA-C	8.12	119.76	111.07
1	7E	21	ASN	CA-CB-CG	-8.12	104.48	112.60
1	8D	12	HIS	CE1-NE2-CD2	-8.12	100.88	109.00
1	9q	136	LEU	O-C-N	-8.12	113.51	122.12
1	ay	222	GLY	CA-C-O	-8.12	114.27	121.58
1	bX	75	GLU	O-C-N	-8.12	112.28	122.27
1	cT	165	VAL	CA-C-N	8.12	131.16	120.28
1	cT	165	VAL	C-N-CA	8.12	131.16	120.28
1	eI	84	HIS	CA-C-N	8.12	129.99	119.84
1	eI	84	HIS	C-N-CA	8.12	129.99	119.84
1	fQ	113	GLU	N-CA-C	8.12	120.13	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gp	212	GLU	CA-C-N	8.12	131.16	120.28
1	gp	212	GLU	C-N-CA	8.12	131.16	120.28
1	hd	183	ASN	O-C-N	-8.12	113.71	122.07
1	hp	186	THR	N-CA-C	8.12	120.13	111.28
1	1S	114	GLN	CA-C-N	8.12	130.79	120.56
1	1S	114	GLN	C-N-CA	8.12	130.79	120.56
1	j1	32	PHE	CA-CB-CG	-8.12	105.68	113.80
1	kS	25	LYS	N-CA-C	8.12	121.24	111.82
1	l7	118	MET	O-C-N	-8.12	113.52	122.12
1	44	138	LEU	N-CA-C	8.12	120.13	111.28
1	50	52	LEU	CA-C-O	8.12	129.34	120.82
1	5B	18	ARG	N-CA-C	8.12	119.76	111.07
1	8o	153	ILE	N-CA-CB	8.12	121.90	111.67
1	9G	198	CYS	O-C-N	-8.12	112.89	122.15
1	aS	229	ARG	NE-CZ-NH2	-8.12	111.89	119.20
1	bd	47	ALA	O-C-N	-8.12	112.98	122.89
1	co	8	GLY	CA-C-N	8.12	133.00	120.82
1	co	8	GLY	C-N-CA	8.12	133.00	120.82
1	fg	74	ASN	CA-CB-CG	-8.12	104.48	112.60
1	F	130	TYR	CB-CG-CD1	8.12	132.98	120.80
1	7s	18	ARG	NH1-CZ-NH2	-8.12	108.75	119.30
1	9L	174	ALA	CA-C-N	8.12	133.01	120.75
1	9L	174	ALA	C-N-CA	8.12	133.01	120.75
1	d2	65	ALA	CA-C-N	8.12	131.16	120.28
1	d2	65	ALA	C-N-CA	8.12	131.16	120.28
1	es	122	PRO	CA-C-N	8.12	127.88	119.76
1	es	122	PRO	C-N-CA	8.12	127.88	119.76
1	gf	210	THR	CA-C-N	8.12	131.16	120.28
1	gf	210	THR	C-N-CA	8.12	131.16	120.28
1	he	47	ALA	N-CA-C	8.12	122.00	110.23
1	hy	178	SER	CA-C-N	8.12	131.81	120.29
1	hy	178	SER	C-N-CA	8.12	131.81	120.29
1	hK	6	LEU	N-CA-C	8.12	120.85	111.11
1	1S	167	ARG	NE-CZ-NH1	8.12	129.62	121.50
1	jq	165	VAL	CB-CA-C	8.12	123.42	112.22
1	aP	127	GLY	N-CA-C	8.12	121.92	112.50
1	eA	185	MET	N-CA-C	8.12	120.13	111.28
1	hX	224	PRO	CA-C-N	8.11	129.03	120.43
1	hX	224	PRO	C-N-CA	8.11	129.03	120.43
1	jr	84	HIS	CG-CD2-NE2	8.11	115.31	107.20
1	k7	72	THR	OG1-CB-CG2	-8.12	93.07	109.30
1	kh	143	ARG	NE-CZ-NH1	8.11	129.61	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	km	86	VAL	N-CA-CB	8.12	119.57	110.72
1	kz	225	GLY	O-C-N	-8.11	114.40	122.19
1	2a	81	ASP	CA-CB-CG	-8.12	104.48	112.60
1	4e	115	ILE	CA-C-N	8.12	128.95	119.94
1	4e	115	ILE	C-N-CA	8.12	128.95	119.94
1	4q	37	ILE	N-CA-CB	8.12	116.78	110.45
1	4n	140	LYS	N-CA-C	8.11	120.12	111.28
1	55	125	PRO	CA-C-O	-8.12	115.31	121.31
1	57	55	MET	N-CA-C	8.12	120.12	111.28
1	5D	10	MET	N-CA-C	8.12	122.00	110.23
1	5J	58	THR	CA-CB-CG2	8.12	124.30	110.50
1	7e	32	PHE	N-CA-C	-8.12	101.86	112.41
1	7e	195	ASN	N-CA-CB	-8.12	98.26	110.11
1	7i	137	GLY	O-C-N	-8.12	114.32	122.19
1	7v	107	THR	N-CA-C	-8.12	102.97	113.12
1	8u	223	GLY	O-C-N	-8.12	113.66	121.77
1	8E	63	GLN	N-CA-C	8.12	120.12	111.28
1	bW	115	ILE	CA-C-N	8.12	129.16	119.99
1	bW	115	ILE	C-N-CA	8.12	129.16	119.99
1	cw	60	GLY	CA-C-N	8.12	129.70	120.53
1	cw	60	GLY	C-N-CA	8.12	129.70	120.53
1	cO	23	TRP	CA-C-N	8.12	130.79	120.56
1	cO	23	TRP	C-N-CA	8.12	130.79	120.56
1	ec	67	GLN	N-CA-C	8.12	120.85	111.11
1	8T	66	MET	CG-SD-CE	-8.11	83.05	100.90
1	cP	177	ALA	CA-C-N	8.11	133.00	120.75
1	cP	177	ALA	C-N-CA	8.11	133.00	120.75
1	dG	129	ILE	N-CA-C	8.11	118.90	110.62
1	e1	123	PRO	N-CA-CB	8.12	110.53	103.31
1	eT	135	ILE	CA-C-N	8.12	131.15	120.28
1	eT	135	ILE	C-N-CA	8.12	131.15	120.28
1	1w	130	TYR	O-C-N	-8.11	113.33	122.09
1	g5	122	PRO	CA-C-N	8.12	128.59	119.83
1	g5	122	PRO	C-N-CA	8.12	128.59	119.83
1	b	48	THR	N-CA-CB	8.12	121.41	109.88
1	gc	178	SER	CA-C-N	8.11	131.15	120.28
1	gc	178	SER	C-N-CA	8.11	131.15	120.28
1	gG	219	GLN	N-CA-CB	8.11	121.90	109.97
1	hm	65	ALA	N-CA-C	8.11	120.12	111.28
1	jP	122	PRO	CA-C-N	8.11	128.17	119.89
1	jP	122	PRO	C-N-CA	8.11	128.17	119.89
1	h4	179	GLN	CA-C-O	8.11	129.58	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hb	213	GLU	N-CA-C	8.11	120.12	111.28
1	hc	163	ASP	O-C-N	-8.11	113.52	122.12
1	hB	37	ILE	O-C-N	-8.11	114.31	120.07
1	hV	24	VAL	CA-C-N	8.11	131.47	120.44
1	hV	24	VAL	C-N-CA	8.11	131.47	120.44
1	iE	32	PHE	CA-CB-CG	8.11	121.91	113.80
1	iI	126	VAL	CA-C-N	8.11	128.94	119.94
1	iI	126	VAL	C-N-CA	8.11	128.94	119.94
1	iK	17	PRO	CA-C-N	8.11	131.49	120.54
1	iK	17	PRO	C-N-CA	8.11	131.49	120.54
1	iV	77	ALA	CA-C-N	8.11	131.81	120.29
1	iV	77	ALA	C-N-CA	8.11	131.81	120.29
1	kw	223	GLY	CA-C-N	8.11	129.98	119.84
1	kw	223	GLY	C-N-CA	8.11	129.98	119.84
1	kH	61	GLY	CA-C-N	8.11	134.01	122.08
1	kH	61	GLY	C-N-CA	8.11	134.01	122.08
1	iV	173	ARG	N-CA-C	8.11	120.12	111.28
1	l2	222	GLY	CA-C-N	8.11	134.61	121.87
1	l2	222	GLY	C-N-CA	8.11	134.61	121.87
1	ll	53	ASN	CA-CB-CG	-8.11	104.49	112.60
1	28	121	ASN	CA-CB-CG	8.11	120.71	112.60
1	3E	25	LYS	N-CA-C	8.11	121.04	111.71
1	4w	142	VAL	CB-CA-C	-8.11	101.59	111.97
1	6c	181	VAL	CA-C-N	8.11	131.15	120.28
1	6c	181	VAL	C-N-CA	8.11	131.15	120.28
1	6A	18	ARG	NE-CZ-NH1	8.11	129.61	121.50
1	8s	176	GLN	OE1-CD-NE2	-8.11	114.49	122.60
1	8W	3	VAL	CB-CA-C	8.11	122.92	110.83
1	97	37	ILE	CA-C-N	8.11	127.69	118.85
1	97	37	ILE	C-N-CA	8.11	127.69	118.85
1	9i	88	ALA	N-CA-CB	-8.11	97.09	110.23
1	a9	61	GLY	CA-C-N	8.11	134.31	122.63
1	a9	61	GLY	C-N-CA	8.11	134.31	122.63
1	cc	129	ILE	N-CA-C	8.11	118.92	110.72
1	cD	143	ARG	NE-CZ-NH1	-8.11	113.39	121.50
1	eG	182	LYS	N-CA-C	8.11	120.12	111.28
1	g	36	VAL	N-CA-C	8.11	118.89	110.62
1	cW	221	VAL	O-C-N	-8.11	113.70	122.95
1	dg	26	VAL	CA-C-O	-8.11	112.57	121.17
1	dl	87	HIS	CA-C-O	8.11	129.14	120.46
1	1p	214	MET	N-CA-C	8.11	121.14	111.33
1	eX	138	LEU	O-C-N	-8.11	112.29	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gs	83	LEU	N-CA-C	8.11	121.23	111.82
1	hJ	55	MET	O-C-N	-8.11	113.40	122.08
1	1N	27	VAL	O-C-N	-8.11	114.00	121.87
1	kf	143	ARG	CA-C-N	8.11	131.15	120.28
1	kf	143	ARG	C-N-CA	8.11	131.15	120.28
1	2d	114	GLN	N-CA-C	8.11	120.12	111.28
1	5I	46	GLY	CA-C-N	8.11	132.26	120.82
1	5I	46	GLY	C-N-CA	8.11	132.26	120.82
1	aa	173	ARG	NH1-CZ-NH2	-8.11	108.76	119.30
1	ii	102	SER	N-CA-CB	-8.11	97.81	110.30
1	ji	174	ALA	N-CA-C	8.11	120.20	111.36
1	k7	3	VAL	O-C-N	-8.11	114.44	123.20
1	kI	172	LEU	CA-C-N	8.11	131.14	120.28
1	kI	172	LEU	C-N-CA	8.11	131.14	120.28
1	lg	57	ASN	CA-CB-CG	8.11	120.71	112.60
1	33	91	ILE	O-C-N	-8.11	113.94	121.89
1	4d	28	GLU	N-CA-C	8.11	119.81	110.97
1	5J	173	ARG	NE-CZ-NH2	-8.11	111.90	119.20
1	5O	70	LYS	N-CA-C	8.11	120.12	111.28
1	8d	155	GLN	OE1-CD-NE2	8.11	130.71	122.60
1	8n	36	VAL	CA-C-N	8.11	126.82	120.33
1	8n	36	VAL	C-N-CA	8.11	126.82	120.33
1	8i	84	HIS	ND1-CE1-NE2	8.11	116.51	108.40
1	9l	66	MET	N-CA-C	8.11	120.12	111.28
1	9K	100	ARG	NE-CZ-NH2	-8.11	111.90	119.20
1	e	93	PRO	CA-C-O	-8.11	112.75	121.27
1	I	200	THR	N-CA-C	8.11	120.12	111.28
1	aS	8	GLY	CA-C-N	8.11	132.25	120.82
1	aS	8	GLY	C-N-CA	8.11	132.25	120.82
1	bO	154	ARG	NH1-CZ-NH2	-8.11	108.76	119.30
1	cx	159	GLU	CA-C-N	8.11	128.73	120.14
1	cx	159	GLU	C-N-CA	8.11	128.73	120.14
1	dG	143	ARG	NE-CZ-NH1	8.11	129.61	121.50
1	f	100	ARG	O-C-N	-8.11	113.19	122.68
1	r	169	TYR	N-CA-C	8.11	121.23	111.82
1	h0	144	MET	N-CA-C	8.11	120.12	111.28
1	k2	84	HIS	CA-C-N	8.11	128.11	119.76
1	k2	84	HIS	C-N-CA	8.11	128.11	119.76
1	4x	114	GLN	N-CA-C	8.11	119.75	111.07
1	bW	182	LYS	N-CA-C	8.11	120.12	111.28
1	1D	113	GLU	N-CA-C	8.11	120.11	111.28
1	hf	195	ASN	CA-C-N	8.11	129.97	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	195	ASN	C-N-CA	8.11	129.97	119.84
1	hn	92	GLU	N-CA-C	8.11	121.87	110.20
1	1N	95	GLN	CA-C-O	8.11	129.45	120.70
1	i6	93	PRO	CB-CA-C	8.11	121.92	111.46
1	i8	143	ARG	NE-CZ-NH1	8.11	129.61	121.50
1	iQ	51	ASP	N-CA-C	8.11	119.74	111.07
1	iV	74	ASN	OD1-CG-ND2	8.11	130.71	122.60
1	21	69	LEU	O-C-N	-8.11	113.33	122.09
1	jH	52	LEU	N-CA-C	8.11	120.11	111.28
1	kA	82	ARG	N-CA-C	8.11	119.89	111.14
1	2A	94	GLY	CA-C-O	-8.11	109.39	119.69
1	3d	203	LYS	N-CA-C	8.11	119.89	111.14
1	4y	9	GLN	CA-C-N	8.11	134.30	122.63
1	4y	9	GLN	C-N-CA	8.11	134.30	122.63
1	7s	213	GLU	CA-C-O	8.11	129.01	120.42
1	dl	47	ALA	N-CA-C	8.11	121.67	110.24
1	4z	159	GLU	CA-C-N	8.11	128.13	119.78
1	4z	159	GLU	C-N-CA	8.11	128.13	119.78
1	4J	135	ILE	CA-C-N	8.11	131.14	120.28
1	4J	135	ILE	C-N-CA	8.11	131.14	120.28
1	5j	162	ARG	CA-C-N	8.11	131.14	120.28
1	5j	162	ARG	C-N-CA	8.11	131.14	120.28
1	7c	21	ASN	O-C-N	-8.11	113.53	122.12
1	7Q	2	ILE	N-CA-CB	8.11	119.55	110.72
1	97	102	SER	N-CA-C	8.11	121.03	111.71
1	1g	212	GLU	CA-C-N	8.11	130.98	120.44
1	1g	212	GLU	C-N-CA	8.11	130.98	120.44
1	9k	166	ASP	CA-C-N	8.11	131.14	120.28
1	9k	166	ASP	C-N-CA	8.11	131.14	120.28
1	au	89	GLY	CA-C-N	8.11	128.16	119.89
1	au	89	GLY	C-N-CA	8.11	128.16	119.89
1	aD	36	VAL	CA-C-N	8.11	126.81	120.33
1	aD	36	VAL	C-N-CA	8.11	126.81	120.33
1	14	167	ARG	CA-C-N	8.11	131.46	120.44
1	14	167	ARG	C-N-CA	8.11	131.46	120.44
1	cf	143	ARG	CA-C-N	8.11	130.98	120.44
1	cf	143	ARG	C-N-CA	8.11	130.98	120.44
1	d9	118	MET	CA-C-N	8.11	131.48	120.54
1	d9	118	MET	C-N-CA	8.11	131.48	120.54
1	1l	33	SER	CA-C-N	8.11	127.83	119.56
1	1l	33	SER	C-N-CA	8.11	127.83	119.56
1	ba	21	ASN	CA-CB-CG	-8.11	104.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	135	ILE	O-C-N	-8.10	113.69	121.87
1	iZ	31	ALA	N-CA-C	8.10	120.11	111.28
1	2y	230	VAL	O-C-N	-8.10	114.51	123.26
1	9J	115	ILE	CA-C-N	8.10	128.94	119.94
1	9J	115	ILE	C-N-CA	8.10	128.94	119.94
1	gW	30	LYS	O-C-N	-8.10	114.31	121.85
1	je	169	TYR	N-CA-C	8.10	120.11	111.28
1	kL	150	ILE	N-CA-C	8.10	122.35	111.17
1	eK	89	GLY	CA-C-N	8.10	129.97	119.84
1	k1	38	PRO	N-CA-CB	8.10	112.51	103.44
1	k8	89	GLY	O-C-N	-8.10	114.08	122.18
1	kR	2	ILE	CA-C-N	8.10	134.20	122.69
1	kR	2	ILE	C-N-CA	8.10	134.20	122.69
1	lg	230	VAL	CA-C-N	8.10	136.29	121.70
1	lg	230	VAL	C-N-CA	8.10	136.29	121.70
1	lA	204	ALA	N-CA-C	8.10	121.03	111.71
1	lL	156	GLY	O-C-N	-8.10	113.67	121.77
1	3C	195	ASN	CA-CB-CG	8.10	120.70	112.60
1	58	110	THR	O-C-N	-8.10	114.75	123.42
1	61	113	GLU	O-C-N	-8.10	112.91	122.15
1	91	114	GLN	OE1-CD-NE2	-8.10	114.50	122.60
1	9v	124	ILE	O-C-N	-8.10	113.18	120.96
1	a5	148	THR	N-CA-C	8.10	121.98	110.23
1	1p	37	ILE	N-CA-C	8.10	122.80	112.67
1	eK	89	GLY	C-N-CA	8.10	129.97	119.84
1	eZ	41	SER	CA-C-N	8.10	131.48	120.38
1	eZ	41	SER	C-N-CA	8.10	131.48	120.38
1	fn	229	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	g6	74	ASN	OD1-CG-ND2	-8.10	114.50	122.60
1	S	52	LEU	CA-C-N	8.10	131.14	120.28
1	S	52	LEU	C-N-CA	8.10	131.14	120.28
1	9	78	ALA	N-CA-C	8.10	119.74	111.07
1	28	132	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	lN	12	HIS	CA-CB-CG	8.10	121.90	113.80
1	2J	168	PHE	CA-CB-CG	8.10	121.90	113.80
1	33	213	GLU	N-CA-C	8.10	120.11	111.28
1	38	11	VAL	O-C-N	-8.10	114.43	123.18
1	3r	124	ILE	CA-C-O	-8.10	113.92	119.19
1	5u	165	VAL	N-CA-C	8.10	119.86	110.62
1	5P	143	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	6m	112	GLN	CA-C-N	8.10	131.13	120.28
1	6m	112	GLN	C-N-CA	8.10	131.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	36	VAL	CA-C-N	8.10	125.34	120.24
1	6s	36	VAL	C-N-CA	8.10	125.34	120.24
1	7a	142	VAL	O-C-N	-8.10	113.84	121.94
1	7i	167	ARG	CA-C-N	8.10	131.46	120.44
1	7i	167	ARG	C-N-CA	8.10	131.46	120.44
1	8U	200	THR	N-CA-C	8.10	121.03	111.71
1	8X	32	PHE	CA-CB-CG	8.10	121.90	113.80
1	b4	130	TYR	CB-CA-C	8.10	123.60	110.88
1	bB	159	GLU	CA-C-N	8.10	128.60	119.93
1	bB	159	GLU	C-N-CA	8.10	128.60	119.93
1	c6	113	GLU	CA-C-N	8.10	130.97	120.44
1	c6	113	GLU	C-N-CA	8.10	130.97	120.44
1	cy	151	LEU	N-CA-C	8.10	120.11	111.28
1	cL	168	PHE	N-CA-C	-8.10	102.42	111.82
1	dg	62	HIS	CA-C-N	8.10	131.13	120.28
1	dg	62	HIS	C-N-CA	8.10	131.13	120.28
1	ef	24	VAL	O-C-N	-8.10	114.01	121.87
1	eS	23	TRP	N-CA-C	8.10	119.74	111.07
1	fs	208	ALA	CA-C-N	8.10	132.73	120.82
1	fs	208	ALA	C-N-CA	8.10	132.73	120.82
1	kb	125	PRO	N-CA-CB	-8.10	96.82	102.73
1	gj	61	GLY	CA-C-N	8.10	133.88	122.46
1	gj	61	GLY	C-N-CA	8.10	133.88	122.46
1	1D	132	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	gL	154	ARG	NH1-CZ-NH2	-8.10	108.77	119.30
1	hz	88	ALA	CA-C-O	8.10	129.50	120.43
1	hZ	143	ARG	N-CA-C	8.10	121.22	111.82
1	c8	223	GLY	O-C-N	-8.10	113.67	121.77
1	hP	30	LYS	O-C-N	-8.10	114.25	123.40
1	1R	16	SER	CA-C-N	8.10	128.04	119.05
1	1R	16	SER	C-N-CA	8.10	128.04	119.05
1	iR	201	ILE	N-CA-C	8.10	121.21	111.09
1	1V	200	THR	N-CA-C	8.10	120.11	111.28
1	kz	67	GLN	OE1-CD-NE2	-8.10	114.50	122.60
1	25	180	GLU	N-CA-CB	8.10	122.15	110.16
1	2s	162	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	3f	213	GLU	CA-C-N	8.10	131.13	120.28
1	3f	213	GLU	C-N-CA	8.10	131.13	120.28
1	4B	141	ILE	CA-C-N	8.10	130.77	120.56
1	4B	141	ILE	C-N-CA	8.10	130.77	120.56
1	6f	143	ARG	NE-CZ-NH1	8.10	129.60	121.50
1	3h	112	GLN	CA-C-N	8.10	131.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	112	GLN	C-N-CA	8.10	131.45	120.44
1	4f	187	GLU	N-CA-C	8.10	121.21	111.82
1	6z	160	PRO	N-CA-CB	-8.10	97.38	102.81
1	7K	130	TYR	CA-C-N	8.10	131.48	120.38
1	7K	130	TYR	C-N-CA	8.10	131.48	120.38
1	8E	172	LEU	N-CA-C	8.10	121.13	111.33
1	8T	155	GLN	CA-C-N	8.10	134.58	121.87
1	8T	155	GLN	C-N-CA	8.10	134.58	121.87
1	9z	47	ALA	N-CA-C	8.10	121.49	109.59
1	9G	101	GLY	CA-C-O	8.10	129.75	121.00
1	9J	82	ARG	NE-CZ-NH1	8.10	129.60	121.50
1	a5	175	GLU	CA-C-N	8.10	133.65	122.07
1	a5	175	GLU	C-N-CA	8.10	133.65	122.07
1	b9	29	GLU	N-CA-C	8.10	119.73	111.07
1	bP	55	MET	O-C-N	-8.10	113.54	122.12
1	bU	100	ARG	O-C-N	-8.10	113.62	122.85
1	cD	138	LEU	CA-C-N	8.10	130.97	120.44
1	cD	138	LEU	C-N-CA	8.10	130.97	120.44
1	1s	226	HIS	CE1-NE2-CD2	-8.10	100.90	109.00
1	fq	46	GLY	O-C-N	-8.10	114.47	122.41
1	fF	17	PRO	CA-C-O	-8.10	107.43	119.34
1	ga	108	THR	CA-CB-OG1	8.10	121.74	109.60
1	gs	5	ASN	CA-CB-CG	8.10	120.70	112.60
1	3O	211	LEU	N-CA-C	8.10	119.73	111.07
1	k6	197	ASP	CA-CB-CG	8.10	120.69	112.60
1	k9	82	ARG	CA-C-N	8.10	131.45	120.44
1	k9	82	ARG	C-N-CA	8.10	131.45	120.44
1	19	33	SER	O-C-N	-8.10	110.81	121.34
1	kD	194	ALA	N-CA-C	8.10	120.37	110.41
1	2s	100	ARG	CA-C-N	8.10	128.97	119.98
1	2s	100	ARG	C-N-CA	8.10	128.97	119.98
1	36	196	PRO	N-CA-C	8.10	124.78	113.53
1	3M	134	ILE	CB-CA-C	-8.10	101.05	112.22
1	4l	62	HIS	N-CA-C	8.10	122.60	112.24
1	4E	226	HIS	N-CA-CB	8.10	122.02	110.12
1	5q	91	ILE	O-C-N	-8.10	114.05	122.63
1	7f	173	ARG	N-CA-C	8.10	120.11	111.28
1	5O	45	GLU	N-CA-C	8.10	120.10	111.28
1	6Y	141	ILE	CB-CA-C	-8.10	101.61	111.97
1	7Q	82	ARG	N-CA-C	8.10	119.73	111.07
1	7Z	206	GLY	CA-C-N	8.10	129.96	119.84
1	7Z	206	GLY	C-N-CA	8.10	129.96	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8b	229	ARG	NE-CZ-NH2	-8.10	111.92	119.20
1	8s	111	LEU	N-CA-C	8.10	121.13	111.33
1	cp	97	ARG	NE-CZ-NH2	-8.10	111.91	119.20
1	da	130	TYR	CA-C-N	8.10	131.47	120.38
1	da	130	TYR	C-N-CA	8.10	131.47	120.38
1	ex	5	ASN	CA-C-N	8.10	132.20	120.38
1	ex	5	ASN	C-N-CA	8.10	132.20	120.38
1	8x	4	GLN	OE1-CD-NE2	-8.10	114.50	122.60
1	92	64	ALA	CA-C-N	8.10	130.96	120.44
1	92	64	ALA	C-N-CA	8.10	130.96	120.44
1	a2	77	ALA	CA-C-O	8.10	129.13	120.55
1	aQ	173	ARG	NE-CZ-NH2	8.10	126.48	119.20
1	ca	110	THR	N-CA-C	8.10	121.65	110.24
1	db	173	ARG	NE-CZ-NH2	8.10	126.49	119.20
1	dF	183	ASN	OD1-CG-ND2	-8.10	114.50	122.60
1	eg	199	LYS	CA-C-N	8.10	131.47	120.54
1	eg	199	LYS	C-N-CA	8.10	131.47	120.54
1	ek	151	LEU	O-C-N	8.10	130.41	122.07
1	hj	57	ASN	OD1-CG-ND2	-8.09	114.51	122.60
1	ho	202	LEU	CA-C-N	8.09	131.13	120.28
1	ho	202	LEU	C-N-CA	8.09	131.13	120.28
1	1L	151	LEU	CA-C-N	8.09	130.96	120.44
1	1L	151	LEU	C-N-CA	8.09	130.96	120.44
1	is	110	THR	CA-C-N	8.09	132.04	120.79
1	is	110	THR	C-N-CA	8.09	132.04	120.79
1	lQ	142	VAL	CA-C-O	8.09	129.69	121.27
1	49	22	ALA	CA-C-N	8.09	131.78	120.29
1	49	22	ALA	C-N-CA	8.09	131.78	120.29
1	4Z	13	GLN	O-C-N	-8.09	113.28	123.24
1	5U	16	SER	CA-C-N	8.09	128.55	119.32
1	5U	16	SER	C-N-CA	8.09	128.55	119.32
1	gy	216	THR	CA-C-N	8.09	132.62	121.05
1	gy	216	THR	C-N-CA	8.09	132.62	121.05
1	h9	5	ASN	O-C-N	-8.09	112.86	122.81
1	hW	72	THR	O-C-N	-8.09	113.54	122.12
1	i9	132	ARG	NE-CZ-NH1	8.09	129.59	121.50
1	iH	78	ALA	CA-C-N	8.09	131.12	120.28
1	iH	78	ALA	C-N-CA	8.09	131.12	120.28
1	k4	124	ILE	O-C-N	-8.09	115.15	121.46
1	lq	89	GLY	O-C-N	-8.09	113.68	121.77
1	ls	211	LEU	CA-C-N	8.09	130.96	120.44
1	kG	65	ALA	O-C-N	-8.09	113.54	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ls	183	ASN	CA-CB-CG	-8.09	104.51	112.60
1	ls	211	LEU	C-N-CA	8.09	130.96	120.44
1	3i	128	GLU	N-CA-C	8.09	119.73	111.07
1	3x	194	ALA	N-CA-C	8.09	120.77	110.33
1	3V	48	THR	C-N-CA	8.09	128.55	119.32
1	2l	79	GLU	CA-C-O	8.09	129.28	119.97
1	3z	200	THR	N-CA-CB	8.09	121.74	110.01
1	3F	42	ALA	CA-C-O	8.09	129.28	119.97
1	3V	48	THR	CA-C-N	8.09	128.55	119.32
1	8E	100	ARG	NH1-CZ-NH2	-8.09	108.78	119.30
1	ab	91	ILE	CA-C-N	8.09	130.21	120.09
1	ab	91	ILE	C-N-CA	8.09	130.21	120.09
1	4h	17	PRO	CA-C-N	8.09	131.12	120.28
1	4h	17	PRO	C-N-CA	8.09	131.12	120.28
1	58	82	ARG	CA-C-N	8.09	131.46	120.54
1	58	82	ARG	C-N-CA	8.09	131.46	120.54
1	6P	100	ARG	NE-CZ-NH1	8.09	129.59	121.50
1	77	100	ARG	NE-CZ-NH1	8.09	129.59	121.50
1	7u	38	PRO	CA-C-N	8.09	130.96	120.44
1	7u	38	PRO	C-N-CA	8.09	130.96	120.44
1	8p	189	LEU	N-CA-C	8.09	121.12	111.33
1	8O	100	ARG	O-C-N	-8.09	112.70	122.65
1	ce	144	MET	CA-C-O	8.09	129.13	120.55
1	b4	205	LEU	N-CA-CB	8.09	122.00	109.94
1	bO	37	ILE	O-C-N	-8.09	114.33	120.07
1	co	12	HIS	CE1-NE2-CD2	-8.09	100.91	109.00
1	co	61	GLY	CA-C-N	8.09	133.59	122.34
1	co	61	GLY	C-N-CA	8.09	133.59	122.34
1	dp	167	ARG	CA-C-N	8.09	131.44	120.44
1	dp	167	ARG	C-N-CA	8.09	131.44	120.44
1	fi	190	LEU	CA-C-N	8.09	130.76	120.56
1	fi	190	LEU	C-N-CA	8.09	130.76	120.56
1	fG	165	VAL	CA-C-N	8.09	130.96	120.44
1	fG	165	VAL	C-N-CA	8.09	130.96	120.44
1	ge	169	TYR	CA-C-N	8.09	131.12	120.28
1	ge	169	TYR	C-N-CA	8.09	131.12	120.28
1	gA	120	HIS	CA-CB-CG	8.09	121.89	113.80
1	gI	215	MET	O-C-N	-8.09	112.75	122.22
1	2T	226	HIS	CE1-NE2-CD2	-8.09	100.91	109.00
1	3N	95	GLN	OE1-CD-NE2	-8.09	114.51	122.60
1	ac	190	LEU	N-CA-C	8.09	119.73	111.07
1	gk	68	MET	CA-C-O	8.09	129.12	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gL	230	VAL	CA-C-O	8.09	126.64	118.96
1	h3	27	VAL	N-CA-C	8.09	118.87	110.62
1	hs	22	ALA	N-CA-C	8.09	120.10	111.28
1	hT	135	ILE	N-CA-C	8.09	119.84	110.62
1	iQ	62	HIS	ND1-CE1-NE2	8.09	116.49	108.40
1	jr	162	ARG	N-CA-C	8.09	119.88	111.14
1	kE	188	THR	CA-C-N	8.09	132.95	120.82
1	kE	188	THR	C-N-CA	8.09	132.95	120.82
1	dV	162	ARG	N-CA-C	8.09	120.18	111.36
1	2R	180	GLU	CB-CG-CD	8.09	126.35	112.60
1	38	73	ILE	CA-C-O	8.09	129.36	120.95
1	3C	84	HIS	CE1-NE2-CD2	-8.09	100.91	109.00
1	56	179	GLN	CB-CG-CD	8.09	126.35	112.60
1	5u	181	VAL	CA-C-N	8.09	131.46	120.54
1	5u	181	VAL	C-N-CA	8.09	131.46	120.54
1	6o	183	ASN	CA-CB-CG	-8.09	104.51	112.60
1	8y	134	ILE	N-CA-C	8.09	118.89	110.72
1	8M	161	PHE	CA-C-N	8.09	131.46	120.54
1	8M	161	PHE	C-N-CA	8.09	131.46	120.54
1	aj	193	ASN	CA-C-O	8.09	129.03	119.56
1	ar	211	LEU	CA-C-N	8.09	130.96	120.44
1	ar	211	LEU	C-N-CA	8.09	130.96	120.44
1	bi	116	GLY	O-C-N	-8.09	114.32	122.17
1	aU	50	GLN	N-CA-C	8.09	120.82	111.11
1	bl	203	LYS	N-CA-C	8.09	120.10	111.28
1	bv	16	SER	CA-C-N	8.09	128.03	119.05
1	bv	16	SER	C-N-CA	8.09	128.03	119.05
1	c0	64	ALA	CA-C-N	8.09	131.12	120.28
1	c0	64	ALA	C-N-CA	8.09	131.12	120.28
1	ce	71	GLU	CA-C-N	8.09	130.96	120.44
1	ce	71	GLU	C-N-CA	8.09	130.96	120.44
1	cu	223	GLY	CA-C-N	8.09	128.11	119.78
1	cu	223	GLY	C-N-CA	8.09	128.11	119.78
1	di	166	ASP	CA-C-N	8.09	130.96	120.44
1	di	166	ASP	C-N-CA	8.09	130.96	120.44
1	di	223	GLY	CA-C-N	8.09	129.95	119.84
1	di	223	GLY	C-N-CA	8.09	129.95	119.84
1	e7	88	ALA	N-CA-CB	-8.09	97.91	110.85
1	ej	117	TRP	CA-C-N	8.09	131.93	120.28
1	ej	117	TRP	C-N-CA	8.09	131.93	120.28
1	fJ	121	ASN	CB-CA-C	8.09	119.45	110.15
1	L	195	ASN	CA-CB-CG	8.09	120.69	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	221	VAL	CA-C-N	8.09	133.79	122.06
1	gy	221	VAL	C-N-CA	8.09	133.79	122.06
1	gL	36	VAL	CA-C-N	8.09	125.33	120.24
1	gL	36	VAL	C-N-CA	8.09	125.33	120.24
1	kA	187	GLU	CA-C-N	8.09	131.63	120.63
1	kA	187	GLU	C-N-CA	8.09	131.63	120.63
1	5c	175	GLU	N-CA-C	8.09	120.75	110.24
1	ha	139	ASN	O-C-N	-8.09	112.93	122.15
1	hY	26	VAL	CB-CA-C	8.09	122.32	111.97
1	j6	204	ALA	O-C-N	-8.09	113.74	122.07
1	jj	163	ASP	N-CA-C	8.09	119.72	111.07
1	k7	190	LEU	N-CA-CB	-8.09	98.23	110.12
1	kL	83	LEU	N-CA-C	8.09	119.72	111.07
1	36	120	HIS	CA-CB-CG	8.09	121.89	113.80
1	6T	90	PRO	CA-C-N	8.09	133.31	121.18
1	6T	90	PRO	C-N-CA	8.09	133.31	121.18
1	7n	60	GLY	CA-C-N	8.09	129.67	120.53
1	jH	167	ARG	O-C-N	-8.09	113.74	122.07
1	kc	142	VAL	CA-C-N	8.09	131.77	120.29
1	kc	142	VAL	C-N-CA	8.09	131.77	120.29
1	km	16	SER	CA-C-O	-8.09	111.98	120.23
1	kF	172	LEU	CA-C-N	8.09	131.12	120.28
1	kF	172	LEU	C-N-CA	8.09	131.12	120.28
1	2r	97	ARG	NE-CZ-NH1	8.09	129.59	121.50
1	2I	195	ASN	O-C-N	-8.09	112.02	121.32
1	2T	170	LYS	N-CA-C	-8.09	102.55	111.36
1	49	71	GLU	O-C-N	-8.09	113.74	122.07
1	4l	66	MET	N-CA-C	8.09	120.09	111.28
1	5f	101	GLY	CA-C-N	8.09	131.12	120.28
1	4j	143	ARG	N-CA-C	8.09	120.81	111.11
1	4W	46	GLY	CA-C-N	8.09	132.35	120.87
1	4W	46	GLY	C-N-CA	8.09	132.35	120.87
1	5f	101	GLY	C-N-CA	8.09	131.12	120.28
1	68	183	ASN	CA-CB-CG	8.09	120.69	112.60
1	7n	60	GLY	C-N-CA	8.09	129.67	120.53
1	7J	197	ASP	CA-C-N	8.09	131.12	120.28
1	7J	197	ASP	C-N-CA	8.09	131.12	120.28
1	8C	105	ALA	CA-C-O	8.09	129.28	119.49
1	aE	46	GLY	CA-C-N	8.09	133.07	121.50
1	aE	46	GLY	C-N-CA	8.09	133.07	121.50
1	8d	84	HIS	CA-C-O	-8.09	111.86	121.00
1	9B	29	GLU	CA-C-O	-8.09	112.33	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	188	THR	O-C-N	-8.09	112.46	121.76
1	aY	123	PRO	N-CA-C	8.09	124.44	111.26
1	ca	9	GLN	OE1-CD-NE2	-8.09	114.52	122.60
1	cn	87	HIS	CE1-NE2-CD2	-8.09	100.91	109.00
1	d3	154	ARG	NE-CZ-NH1	8.09	129.59	121.50
1	dC	12	HIS	CE1-NE2-CD2	-8.09	100.91	109.00
1	dT	58	THR	CA-C-N	8.09	133.12	121.80
1	dm	4	GLN	OE1-CD-NE2	-8.09	114.52	122.60
1	dz	180	GLU	O-C-N	-8.09	113.36	122.09
1	dT	58	THR	C-N-CA	8.09	133.12	121.80
1	e3	64	ALA	CA-C-N	8.09	131.44	120.44
1	e3	64	ALA	C-N-CA	8.09	131.44	120.44
1	f1	100	ARG	CA-C-N	8.09	129.09	120.03
1	f1	100	ARG	C-N-CA	8.09	129.09	120.03
1	w	23	TRP	N-CA-CB	-8.09	98.28	110.01
1	P	81	ASP	N-CA-C	8.09	120.09	111.28
1	jJ	205	LEU	N-CA-C	8.08	121.11	111.33
1	4q	195	ASN	N-CA-C	8.08	121.12	109.48
1	4P	152	ASP	CA-C-N	8.08	136.52	121.97
1	4P	152	ASP	C-N-CA	8.08	136.52	121.97
1	63	18	ARG	O-C-N	8.08	130.76	122.03
1	bv	20	LEU	CA-C-N	8.08	131.46	120.38
1	c8	51	ASP	CA-CB-CG	-8.08	104.52	112.60
1	gd	130	TYR	CA-C-N	8.08	130.95	120.44
1	gd	130	TYR	C-N-CA	8.08	130.95	120.44
1	gQ	28	GLU	N-CA-C	8.08	120.09	111.28
1	hR	163	ASP	CA-CB-CG	8.08	120.68	112.60
1	i9	92	GLU	CA-C-N	8.08	128.58	119.93
1	i9	92	GLU	C-N-CA	8.08	128.58	119.93
1	is	31	ALA	O-C-N	-8.08	112.92	122.86
1	iE	70	LYS	N-CA-C	8.08	120.09	111.28
1	iO	200	THR	O-C-N	-8.08	113.55	122.12
1	iS	118	MET	N-CA-C	8.08	120.09	111.28
1	2Z	54	THR	O-C-N	-8.08	113.74	122.07
1	jN	92	GLU	CA-C-O	-8.08	111.95	120.28
1	kY	182	LYS	CA-C-N	8.08	131.77	120.29
1	kY	182	LYS	C-N-CA	8.08	131.77	120.29
1	kZ	219	GLN	OE1-CD-NE2	-8.08	114.52	122.60
1	lk	180	GLU	CA-C-N	8.08	130.90	120.56
1	lk	180	GLU	C-N-CA	8.08	130.90	120.56
1	2n	112	GLN	CB-CG-CD	8.08	126.34	112.60
1	2S	76	GLU	N-CA-C	8.08	119.72	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	167	ARG	NE-CZ-NH1	8.08	129.58	121.50
1	6t	140	LYS	N-CA-C	8.08	119.72	111.07
1	39	150	ILE	N-CA-C	8.08	118.86	110.62
1	4K	51	ASP	CA-CB-CG	-8.08	104.52	112.60
1	69	22	ALA	CA-C-N	8.08	131.11	120.28
1	69	22	ALA	C-N-CA	8.08	131.11	120.28
1	6J	43	LEU	CA-C-O	8.08	129.26	119.97
1	7w	223	GLY	O-C-N	-8.08	113.69	121.77
1	7A	44	SER	O-C-N	-8.08	112.64	122.34
1	7A	139	ASN	CA-CB-CG	8.08	120.68	112.60
1	8e	195	ASN	CA-C-N	8.08	128.53	119.32
1	8e	195	ASN	C-N-CA	8.08	128.53	119.32
1	bv	20	LEU	C-N-CA	8.08	131.46	120.38
1	89	97	ARG	O-C-N	-8.08	113.64	122.85
1	9j	18	ARG	O-C-N	8.08	130.40	122.07
1	aI	25	LYS	N-CA-C	8.08	120.81	111.11
1	aW	58	THR	CA-C-N	8.08	130.74	120.56
1	aW	58	THR	C-N-CA	8.08	130.74	120.56
1	c4	19	THR	N-CA-C	8.08	119.72	111.07
1	dj	227	LYS	N-CA-C	8.08	121.34	110.35
1	dE	192	GLN	N-CA-C	8.08	120.09	111.28
1	eI	69	LEU	CA-C-N	8.08	131.11	120.28
1	eI	69	LEU	C-N-CA	8.08	131.11	120.28
1	e6	21	ASN	N-CA-C	8.08	121.00	111.71
1	1u	159	GLU	CA-C-O	-8.08	111.77	120.17
1	f0	191	VAL	N-CA-C	8.08	118.86	110.62
1	fu	112	GLN	N-CA-C	8.08	120.81	111.11
1	W	20	LEU	O-C-N	-8.08	113.55	122.12
1	go	184	TRP	N-CA-C	8.08	121.11	111.33
1	gQ	50	GLN	OE1-CD-NE2	-8.08	114.52	122.60
1	gW	215	MET	N-CA-C	8.08	122.96	113.18
1	hi	12	HIS	O-C-N	-8.08	113.90	123.27
1	ge	96	MET	N-CA-C	8.08	122.14	110.10
1	gr	4	GLN	OE1-CD-NE2	-8.08	114.52	122.60
1	hU	71	GLU	CA-C-N	8.08	130.94	120.44
1	hU	71	GLU	C-N-CA	8.08	130.94	120.44
1	1D	31	ALA	N-CA-C	8.08	121.00	111.71
1	hZ	124	ILE	O-C-N	-8.08	116.28	121.37
1	j2	174	ALA	N-CA-C	8.08	120.09	111.28
1	8M	152	ASP	CA-CB-CG	-8.08	104.52	112.60
1	j5	209	ALA	N-CA-C	8.08	121.19	110.53
1	j6	135	ILE	CA-C-O	8.08	129.35	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2E	84	HIS	CE1-NE2-CD2	-8.08	100.92	109.00
1	jJ	158	LYS	CA-C-N	8.08	132.41	121.74
1	jJ	158	LYS	C-N-CA	8.08	132.41	121.74
1	2k	56	LEU	N-CA-C	8.08	121.19	111.82
1	3m	25	LYS	N-CA-C	8.08	119.72	111.07
1	45	182	LYS	N-CA-C	8.08	119.72	111.07
1	4Y	124	ILE	CA-C-O	-8.08	114.38	119.15
1	5C	18	ARG	N-CA-C	8.08	120.09	111.28
1	5Q	120	HIS	ND1-CE1-NE2	8.08	116.48	108.40
1	8J	202	LEU	CA-C-O	8.08	128.98	120.42
1	9n	78	ALA	N-CA-C	8.08	120.09	111.28
1	ci	70	LYS	CA-C-N	8.08	130.94	120.44
1	ci	70	LYS	C-N-CA	8.08	130.94	120.44
1	cN	33	SER	CA-C-N	8.08	128.53	119.32
1	cN	33	SER	C-N-CA	8.08	128.53	119.32
1	du	218	CYS	O-C-N	-8.08	112.03	122.37
1	e0	75	GLU	CB-CA-C	8.08	123.57	110.88
1	dI	88	ALA	N-CA-C	8.08	120.17	111.36
1	f0	219	GLN	N-CA-C	8.08	120.09	111.28
1	Q	106	GLY	CA-C-N	8.08	130.94	120.44
1	Q	106	GLY	C-N-CA	8.08	130.94	120.44
1	gm	230	VAL	N-CA-C	8.08	118.14	110.30
1	gA	127	GLY	CA-C-N	8.08	131.10	120.28
1	gA	127	GLY	C-N-CA	8.08	131.10	120.28
1	gB	187	GLU	N-CA-C	8.08	120.80	111.11
1	1E	63	GLN	N-CA-C	8.08	120.08	111.28
1	h2	33	SER	CA-C-O	-8.08	111.67	119.91
1	io	141	ILE	O-C-N	-8.08	113.51	121.83
1	iX	225	GLY	CA-C-O	-8.08	112.21	120.45
1	jP	36	VAL	N-CA-C	8.08	118.17	110.42
1	2l	121	ASN	CA-CB-CG	8.08	120.68	112.60
1	3z	63	GLN	N-CA-C	8.08	120.17	111.36
1	4B	30	LYS	CA-C-N	8.08	131.10	120.28
1	4B	30	LYS	C-N-CA	8.08	131.10	120.28
1	4H	221	VAL	CA-C-O	-8.08	113.50	121.58
1	4L	228	ALA	CA-C-O	8.08	130.21	121.16
1	5y	39	MET	N-CA-C	8.08	120.08	111.28
1	8b	82	ARG	NE-CZ-NH2	-8.08	111.93	119.20
1	bw	87	HIS	CA-CB-CG	-8.08	105.72	113.80
1	45	3	VAL	CA-C-N	8.08	133.83	122.36
1	45	3	VAL	C-N-CA	8.08	133.83	122.36
1	5s	139	ASN	O-C-N	-8.08	112.77	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	79	1	PRO	CA-C-N	8.08	132.79	122.37
1	79	1	PRO	C-N-CA	8.08	132.79	122.37
1	7n	36	VAL	N-CA-C	8.08	118.17	110.42
1	7L	167	ARG	NE-CZ-NH1	8.08	129.58	121.50
1	8z	71	GLU	CA-C-N	8.08	131.45	120.54
1	8z	71	GLU	C-N-CA	8.08	131.45	120.54
1	Z	41	SER	N-CA-C	8.08	119.71	111.07
1	dp	23	TRP	N-CA-C	8.08	119.71	111.07
1	8t	92	GLU	CA-C-N	8.08	128.14	119.90
1	8t	92	GLU	C-N-CA	8.08	128.14	119.90
1	8C	53	ASN	OD1-CG-ND2	-8.08	114.52	122.60
1	am	219	GLN	N-CA-C	8.08	120.08	111.28
1	14	81	ASP	N-CA-C	8.08	121.10	111.33
1	at	7	GLN	OE1-CD-NE2	-8.08	114.52	122.60
1	au	192	GLN	O-C-N	-8.08	113.37	122.09
1	aY	12	HIS	CA-C-O	8.08	130.21	121.16
1	b3	125	PRO	N-CA-CB	-8.08	96.06	102.36
1	bB	200	THR	CA-C-N	8.08	131.92	120.53
1	bB	200	THR	C-N-CA	8.08	131.92	120.53
1	fZ	69	LEU	CA-C-O	8.08	129.30	120.82
1	c5	87	HIS	CE1-NE2-CD2	-8.08	100.92	109.00
1	cQ	128	GLU	CA-C-N	8.08	130.74	120.56
1	cQ	128	GLU	C-N-CA	8.08	130.74	120.56
1	1t	57	ASN	N-CA-C	8.08	120.08	111.28
1	fb	5	ASN	CA-CB-CG	-8.08	104.52	112.60
1	fo	165	VAL	O-C-N	8.08	129.70	121.87
1	fS	115	ILE	O-C-N	-8.08	113.51	121.83
1	z	103	ASP	CA-C-N	8.08	131.53	120.46
1	z	103	ASP	C-N-CA	8.08	131.53	120.46
1	S	10	MET	CA-C-N	8.08	131.89	120.42
1	S	10	MET	C-N-CA	8.08	131.89	120.42
1	hD	167	ARG	NE-CZ-NH2	8.07	126.47	119.20
1	iV	73	ILE	N-CA-C	8.07	118.17	110.42
1	jy	10	MET	CB-CA-C	8.07	126.49	110.42
1	jE	81	ASP	CA-C-N	8.07	131.10	120.28
1	gO	24	VAL	N-CA-CB	8.07	121.52	110.54
1	j8	84	HIS	CE1-NE2-CD2	-8.07	100.93	109.00
1	jE	81	ASP	C-N-CA	8.07	131.10	120.28
1	jF	210	THR	O-C-N	-8.07	113.59	122.79
1	jT	114	GLN	O-C-N	-8.07	113.56	122.12
1	k0	112	GLN	CA-C-O	8.07	129.22	120.10
1	kj	18	ARG	NE-CZ-NH2	-8.07	111.93	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kr	45	GLU	N-CA-C	8.07	122.52	111.54
1	lj	224	PRO	CA-C-N	8.07	131.86	121.85
1	lj	224	PRO	C-N-CA	8.07	131.86	121.85
1	8	6	LEU	N-CA-C	8.07	119.99	111.03
1	kn	63	GLN	N-CA-C	8.07	120.08	111.28
1	lP	153	ILE	N-CA-C	8.07	120.17	107.98
1	2m	164	TYR	N-CA-C	8.07	120.80	111.11
1	2Q	195	ASN	CA-CB-CG	8.07	120.67	112.60
1	2S	173	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	3D	154	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	5F	219	GLN	N-CA-C	8.07	120.74	110.24
1	8o	106	GLY	CA-C-N	8.07	131.10	120.28
1	8o	106	GLY	C-N-CA	8.07	131.10	120.28
1	8A	62	HIS	CB-CG-CD2	-8.07	120.70	131.20
1	13	136	LEU	N-CA-C	8.07	121.00	111.71
1	5Q	99	PRO	N-CA-CB	8.07	110.50	103.31
1	6S	12	HIS	CA-CB-CG	-8.07	105.73	113.80
1	8d	224	PRO	CB-CA-C	-8.07	101.31	111.56
1	a4	37	ILE	N-CA-CB	8.07	115.59	110.50
1	ae	112	GLN	N-CA-C	8.07	121.00	111.71
1	aQ	22	ALA	CA-C-N	8.07	130.94	120.44
1	aQ	22	ALA	C-N-CA	8.07	130.94	120.44
1	cy	15	ILE	O-C-N	-8.07	114.11	122.75
1	be	70	LYS	N-CA-C	8.07	121.10	111.33
1	cg	143	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	cm	76	GLU	N-CA-C	8.07	120.08	111.28
1	1e	187	GLU	N-CA-C	8.07	119.86	111.14
1	dE	135	ILE	CA-C-N	8.07	130.94	120.44
1	dE	135	ILE	C-N-CA	8.07	130.94	120.44
1	dF	170	LYS	CA-C-O	-8.07	112.34	120.82
1	eM	35	GLU	CA-C-N	8.07	131.02	120.60
1	eM	35	GLU	C-N-CA	8.07	131.02	120.60
1	fi	94	GLY	CA-C-O	8.07	127.97	119.01
1	1	165	VAL	N-CA-C	8.07	118.86	110.62
1	fE	164	TYR	N-CA-C	8.07	120.08	111.28
1	h1	193	ASN	CA-C-O	8.07	129.00	119.56
1	hn	94	GLY	CA-C-N	8.07	133.57	122.19
1	hn	94	GLY	C-N-CA	8.07	133.57	122.19
1	hr	173	ARG	N-CA-C	8.07	120.99	111.71
1	hA	56	LEU	N-CA-C	8.07	120.08	111.28
1	jb	120	HIS	O-C-N	-8.07	112.49	122.82
1	1U	45	GLU	CA-C-O	-8.07	111.42	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Y	3	VAL	O-C-N	-8.07	113.80	123.00
1	kn	187	GLU	O-C-N	-8.07	111.52	122.33
1	kJ	92	GLU	O-C-N	-8.07	112.71	120.70
1	2F	210	THR	CA-CB-OG1	8.07	121.71	109.60
1	3C	191	VAL	O-C-N	-8.07	113.52	121.83
1	4r	87	HIS	CA-CB-CG	8.07	121.87	113.80
1	4N	37	ILE	N-CA-CB	-8.07	105.42	110.50
1	7h	126	VAL	CA-C-N	8.07	130.47	120.22
1	7h	126	VAL	C-N-CA	8.07	130.47	120.22
1	8M	195	ASN	CB-CA-C	8.07	122.70	109.46
1	90	15	ILE	CA-C-N	8.07	132.95	120.60
1	90	15	ILE	C-N-CA	8.07	132.95	120.60
1	cK	12	HIS	CG-CD2-NE2	8.07	115.27	107.20
1	fw	18	ARG	NE-CZ-NH2	8.07	126.46	119.20
1	h1	10	MET	CA-C-O	8.07	128.79	120.24
1	1U	132	ARG	NE-CZ-NH2	-8.07	111.94	119.20
1	jk	96	MET	CA-C-N	8.07	136.95	121.54
1	jk	96	MET	C-N-CA	8.07	136.95	121.54
1	kF	84	HIS	CA-CB-CG	-8.07	105.73	113.80
1	kH	27	VAL	N-CA-C	8.07	118.17	110.42
1	lf	214	MET	N-CA-C	8.07	121.18	111.82
1	lB	162	ARG	CA-C-N	8.07	131.09	120.28
1	lB	162	ARG	C-N-CA	8.07	131.09	120.28
1	2S	21	ASN	O-C-N	-8.07	112.95	122.15
1	6S	153	ILE	CB-CA-C	-8.07	100.52	111.33
1	7X	197	ASP	CA-CB-CG	-8.07	104.53	112.60
1	13	102	SER	N-CA-C	8.07	120.99	111.71
1	cY	212	GLU	CA-C-N	8.07	131.10	120.28
1	cY	212	GLU	C-N-CA	8.07	131.10	120.28
1	1u	69	LEU	N-CA-C	8.07	120.08	111.28
1	43	182	LYS	N-CA-C	8.07	120.08	111.28
1	4H	87	HIS	CE1-NE2-CD2	-8.07	100.93	109.00
1	6c	22	ALA	CA-C-N	8.07	130.93	120.44
1	6c	22	ALA	C-N-CA	8.07	130.93	120.44
1	6W	33	SER	CA-C-O	-8.07	110.81	120.41
1	8r	120	HIS	CA-CB-CG	8.07	121.87	113.80
1	9p	37	ILE	O-C-N	-8.07	115.26	120.42
1	bi	39	MET	CG-SD-CE	-8.07	83.15	100.90
1	bA	24	VAL	CA-C-N	8.07	131.09	120.28
1	bA	24	VAL	C-N-CA	8.07	131.09	120.28
1	c8	162	ARG	N-CA-C	8.07	120.08	111.28
1	cB	102	SER	N-CA-C	8.07	120.79	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cT	221	VAL	O-C-N	-8.07	112.48	122.57
1	f2	148	THR	CA-CB-OG1	8.07	121.70	109.60
1	8	26	VAL	N-CA-C	8.07	118.85	110.62
1	k8	148	THR	CA-C-O	8.07	130.15	121.44
1	ll	3	VAL	CA-C-N	8.07	131.09	120.28
1	cD	21	ASN	CA-C-O	8.07	129.10	120.55
1	iV	37	ILE	N-CA-CB	8.07	115.58	110.50
1	kJ	15	ILE	O-C-N	-8.07	114.44	122.67
1	ll	3	VAL	C-N-CA	8.07	131.09	120.28
1	3p	18	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	2f	82	ARG	NH1-CZ-NH2	-8.07	108.81	119.30
1	2h	92	GLU	N-CA-C	-8.07	100.96	108.22
1	2A	199	LYS	N-CA-C	8.07	120.07	111.28
1	6C	122	PRO	CA-C-N	8.07	128.54	119.83
1	6C	122	PRO	C-N-CA	8.07	128.54	119.83
1	6U	195	ASN	CA-C-N	8.07	129.92	119.84
1	6U	195	ASN	C-N-CA	8.07	129.92	119.84
1	6Z	52	LEU	N-CA-C	8.07	119.70	111.07
1	9y	4	GLN	OE1-CD-NE2	-8.07	114.53	122.60
1	Y	107	THR	N-CA-C	8.07	120.07	111.28
1	aF	54	THR	N-CA-CB	8.07	121.98	110.12
1	bT	163	ASP	CA-CB-CG	-8.07	104.53	112.60
1	dj	45	GLU	N-CA-C	8.07	122.10	110.24
1	9	215	MET	CG-SD-CE	-8.07	83.15	100.90
1	ag	82	ARG	NE-CZ-NH1	8.07	129.57	121.50
1	dJ	219	GLN	O-C-N	-8.07	113.66	122.85
1	eQ	42	ALA	CA-C-N	8.07	131.30	120.65
1	eQ	42	ALA	C-N-CA	8.07	131.30	120.65
1	fh	210	THR	CA-C-N	8.07	131.09	120.28
1	fh	210	THR	C-N-CA	8.07	131.09	120.28
1	gr	76	GLU	N-CA-C	8.06	120.07	111.28
1	gB	23	TRP	CA-C-N	8.06	130.72	120.56
1	gB	23	TRP	C-N-CA	8.06	130.72	120.56
1	h0	147	PRO	N-CA-C	8.06	123.16	110.50
1	h2	37	ILE	O-C-N	-8.06	111.91	121.10
1	h6	48	THR	CA-CB-OG1	8.06	121.70	109.60
1	jr	167	ARG	NE-CZ-NH2	-8.06	111.94	119.20
1	jv	143	ARG	CA-C-N	8.06	132.92	120.82
1	jv	143	ARG	C-N-CA	8.06	132.92	120.82
1	1W	18	ARG	CA-C-N	8.06	130.92	120.44
1	1W	18	ARG	C-N-CA	8.06	130.92	120.44
1	jz	42	ALA	N-CA-C	8.06	120.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	51	ASP	N-CA-C	8.06	119.70	111.07
1	la	121	ASN	CA-C-O	-8.06	113.30	119.59
1	20	221	VAL	N-CA-C	8.06	119.48	108.84
1	la	191	VAL	CA-C-N	8.06	131.09	120.28
1	la	191	VAL	C-N-CA	8.06	131.09	120.28
1	lh	126	VAL	N-CA-CB	8.06	119.98	110.55
1	lH	82	ARG	NH1-CZ-NH2	-8.06	108.82	119.30
1	56	100	ARG	CA-C-N	8.06	129.10	119.99
1	56	100	ARG	C-N-CA	8.06	129.10	119.99
1	5p	168	PHE	CA-CB-CG	8.06	121.86	113.80
1	5C	63	GLN	OE1-CD-NE2	-8.06	114.54	122.60
1	5P	106	GLY	N-CA-C	-8.06	103.90	115.27
1	67	223	GLY	O-C-N	-8.06	113.70	121.77
1	8u	163	ASP	CA-C-N	8.06	131.43	120.38
1	69	210	THR	O-C-N	-8.06	113.83	123.10
1	6G	57	ASN	CA-CB-CG	-8.06	104.54	112.60
1	6Q	160	PRO	CA-C-N	8.06	131.09	120.28
1	6Q	160	PRO	C-N-CA	8.06	131.09	120.28
1	8u	163	ASP	C-N-CA	8.06	131.43	120.38
1	8H	91	ILE	O-C-N	-8.06	114.31	122.62
1	bh	37	ILE	N-CA-CB	8.06	116.74	110.45
1	1c	82	ARG	CA-C-N	8.06	134.19	120.72
1	1c	82	ARG	C-N-CA	8.06	134.19	120.72
1	cW	177	ALA	N-CA-C	8.06	121.32	110.35
1	fA	69	LEU	CA-C-N	8.06	131.09	120.28
1	fA	69	LEU	C-N-CA	8.06	131.09	120.28
1	x	100	ARG	CA-C-N	8.06	129.10	119.99
1	C	32	PHE	N-CA-C	-8.06	103.34	113.02
1	6R	121	ASN	CA-C-O	-8.06	113.30	119.59
1	6S	192	GLN	N-CA-C	8.06	121.09	111.33
1	8r	62	HIS	N-CA-C	8.06	122.52	111.39
1	9k	132	ARG	NE-CZ-NH2	-8.06	111.94	119.20
1	9W	152	ASP	CA-C-N	8.06	131.31	120.50
1	9W	152	ASP	C-N-CA	8.06	131.31	120.50
1	at	41	SER	CA-C-N	8.06	130.92	120.44
1	at	41	SER	C-N-CA	8.06	130.92	120.44
1	14	182	LYS	N-CA-C	8.06	120.07	111.28
1	bx	87	HIS	CE1-NE2-CD2	-8.06	100.94	109.00
1	cl	80	TRP	N-CA-C	8.06	119.70	111.07
1	1g	225	GLY	CA-C-N	8.06	136.94	121.54
1	1g	225	GLY	C-N-CA	8.06	136.94	121.54
1	d3	52	LEU	CA-C-O	-8.06	112.35	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	16	SER	CA-C-O	-8.06	113.42	120.19
1	eS	178	SER	CA-C-O	-8.06	113.00	121.87
1	x	100	ARG	C-N-CA	8.06	129.10	119.99
1	fa	104	ILE	CB-CA-C	-8.06	101.09	112.22
1	fv	125	PRO	CB-CA-C	8.06	123.45	112.89
1	1y	153	ILE	O-C-N	-8.06	113.61	122.64
1	O	188	THR	CA-C-N	8.06	131.43	120.38
1	O	188	THR	C-N-CA	8.06	131.43	120.38
1	Q	190	LEU	CA-C-O	8.06	129.10	120.55
1	gX	120	HIS	ND1-CE1-NE2	8.06	116.46	108.40
1	hk	71	GLU	N-CA-C	8.06	120.07	111.28
1	hu	110	THR	CA-C-N	8.06	130.92	120.44
1	hu	110	THR	C-N-CA	8.06	130.92	120.44
1	io	173	ARG	NE-CZ-NH2	8.06	126.46	119.20
1	jy	29	GLU	N-CA-C	8.06	119.85	111.14
1	kb	216	THR	CA-C-O	-8.06	111.92	120.55
1	kG	193	ASN	OD1-CG-ND2	-8.06	114.54	122.60
1	5k	161	PHE	CA-C-N	8.06	131.74	120.29
1	kF	141	ILE	N-CA-C	8.06	118.16	110.42
1	l5	40	PHE	O-C-N	-8.06	113.58	122.12
1	2u	135	ILE	CA-C-O	8.06	129.33	120.95
1	3z	130	TYR	N-CA-C	8.06	120.07	111.28
1	5k	161	PHE	C-N-CA	8.06	131.74	120.29
1	a0	166	ASP	O-C-N	-8.06	113.38	122.09
1	l7	93	PRO	CA-C-O	8.06	128.11	118.92
1	2E	166	ASP	CA-CB-CG	8.06	120.66	112.60
1	36	227	LYS	O-C-N	-8.06	111.87	122.59
1	5E	69	LEU	CA-C-N	8.06	131.74	120.29
1	5E	69	LEU	C-N-CA	8.06	131.74	120.29
1	6p	203	LYS	N-CA-C	8.06	119.69	111.07
1	6P	162	ARG	O-C-N	-8.06	113.01	122.20
1	72	37	ILE	O-C-N	-8.06	114.35	120.07
1	9P	86	VAL	O-C-N	-8.06	114.72	123.18
1	em	23	TRP	O-C-N	-8.06	113.70	122.09
1	9K	33	SER	CA-C-O	-8.06	111.85	120.88
1	9L	93	PRO	N-CA-C	8.06	124.32	113.84
1	ch	36	VAL	N-CA-C	8.06	118.82	110.36
1	cK	96	MET	N-CA-C	-8.06	104.05	114.04
1	cU	84	HIS	CA-CB-CG	-8.06	105.74	113.80
1	di	91	ILE	CA-C-O	8.06	129.19	120.57
1	dL	143	ARG	N-CA-C	8.06	120.07	111.28
1	e3	192	GLN	N-CA-C	8.06	120.14	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	120	HIS	CA-CB-CG	8.06	121.86	113.80
1	fr	33	SER	CA-C-O	-8.06	113.70	120.71
1	1A	66	MET	CA-C-O	-8.06	111.88	120.42
1	kj	127	GLY	CA-C-N	8.06	130.92	120.44
1	gA	200	THR	O-C-N	-8.06	112.97	122.15
1	1H	138	LEU	CA-C-N	8.06	130.92	120.44
1	1H	138	LEU	C-N-CA	8.06	130.92	120.44
1	hJ	50	GLN	CA-C-N	8.06	131.08	120.28
1	hJ	50	GLN	C-N-CA	8.06	131.08	120.28
1	1M	117	TRP	CB-CA-C	-8.06	97.15	110.85
1	im	162	ARG	O-C-N	-8.06	113.58	122.12
1	kj	127	GLY	C-N-CA	8.06	130.92	120.44
1	4R	12	HIS	CA-CB-CG	8.06	121.86	113.80
1	bV	121	ASN	CA-CB-CG	-8.06	104.54	112.60
1	in	37	ILE	CA-CB-CG1	8.06	124.10	110.40
1	iN	150	ILE	O-C-N	-8.06	113.21	122.07
1	j4	102	SER	N-CA-C	8.06	120.06	111.28
1	k0	106	GLY	O-C-N	-8.06	112.34	122.41
1	k8	229	ARG	O-C-N	-8.06	114.04	123.06
1	lo	19	THR	O-C-N	-8.06	113.77	122.07
1	2v	212	GLU	N-CA-C	8.06	120.78	111.11
1	3A	84	HIS	CB-CA-C	-8.06	101.23	110.17
1	57	180	GLU	O-C-N	-8.06	112.97	122.15
1	5O	103	ASP	CA-C-N	8.06	131.00	120.60
1	5O	103	ASP	C-N-CA	8.06	131.00	120.60
1	6e	80	TRP	N-CA-C	8.06	120.06	111.28
1	78	15	ILE	N-CA-C	8.06	126.10	109.34
1	8y	192	GLN	N-CA-C	8.06	119.69	111.07
1	9J	78	ALA	CA-C-O	-8.06	112.36	120.82
1	9N	179	GLN	N-CA-C	8.06	120.98	111.71
1	aP	109	SER	O-C-N	-8.06	113.83	123.10
1	1j	36	VAL	CA-C-N	8.06	125.32	120.24
1	eo	199	LYS	CA-C-N	8.06	130.92	120.44
1	i	84	HIS	CE1-NE2-CD2	-8.06	100.94	109.00
1	a8	22	ALA	CA-C-N	8.06	130.91	120.44
1	a8	22	ALA	C-N-CA	8.06	130.91	120.44
1	1b	51	ASP	N-CA-C	8.06	120.14	111.36
1	cg	186	THR	N-CA-C	-8.06	103.34	113.01
1	cL	219	GLN	OE1-CD-NE2	-8.06	114.54	122.60
1	1j	36	VAL	C-N-CA	8.06	125.32	120.24
1	g6	210	THR	CA-C-N	8.06	131.42	120.54
1	dB	72	THR	O-C-N	-8.06	113.77	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	140	LYS	CA-C-N	8.06	131.50	120.46
1	e1	140	LYS	C-N-CA	8.06	131.50	120.46
1	eo	199	LYS	C-N-CA	8.06	130.92	120.44
1	g6	210	THR	C-N-CA	8.06	131.42	120.54
1	fd	114	GLN	CA-C-N	8.06	131.50	120.46
1	fd	114	GLN	C-N-CA	8.06	131.50	120.46
1	fo	63	GLN	OE1-CD-NE2	-8.06	114.54	122.60
1	fC	144	MET	N-CA-C	8.06	120.06	111.28
1	c	18	ARG	NE-CZ-NH1	8.06	129.56	121.50
1	ga	132	ARG	CA-C-N	8.06	130.91	120.44
1	ga	132	ARG	C-N-CA	8.06	130.91	120.44
1	1O	150	ILE	O-C-N	-8.05	112.78	122.12
1	iH	229	ARG	CA-C-N	8.05	132.76	122.37
1	iH	229	ARG	C-N-CA	8.05	132.76	122.37
1	3l	5	ASN	N-CA-CB	8.06	124.86	111.08
1	3W	134	ILE	CA-C-N	8.06	130.71	120.56
1	3W	134	ILE	C-N-CA	8.06	130.71	120.56
1	7c	48	THR	N-CA-CB	8.06	120.92	110.04
1	7k	23	TRP	CA-C-O	-8.06	111.88	120.42
1	8g	117	TRP	CB-CG-CD2	8.06	138.08	126.80
1	9n	214	MET	N-CA-C	8.05	120.06	111.28
1	9H	28	GLU	N-CA-C	8.05	120.06	111.28
1	10	211	LEU	O-C-N	-8.06	113.58	122.12
1	ba	195	ASN	CA-C-N	8.06	129.91	119.84
1	ba	195	ASN	C-N-CA	8.06	129.91	119.84
1	bc	35	GLU	CA-C-N	8.06	131.86	120.42
1	bc	35	GLU	C-N-CA	8.06	131.86	120.42
1	f1	28	GLU	CA-C-N	8.06	131.73	120.29
1	f1	28	GLU	C-N-CA	8.06	131.73	120.29
1	D	84	HIS	O-C-N	-8.06	112.09	121.60
1	W	64	ALA	CA-C-N	8.05	131.07	120.28
1	W	64	ALA	C-N-CA	8.05	131.07	120.28
1	ge	18	ARG	NE-CZ-NH1	8.05	129.55	121.50
1	gi	81	ASP	CA-C-N	8.05	130.91	120.44
1	gi	81	ASP	C-N-CA	8.05	130.91	120.44
1	gl	130	TYR	CA-C-N	8.05	131.07	120.28
1	gl	130	TYR	C-N-CA	8.05	131.07	120.28
1	gI	226	HIS	ND1-CE1-NE2	8.05	116.45	108.40
1	iX	5	ASN	OD1-CG-ND2	-8.05	114.55	122.60
1	jw	106	GLY	CA-C-N	8.05	131.73	120.29
1	jw	106	GLY	C-N-CA	8.05	131.73	120.29
1	1j	198	CYS	CA-C-N	8.05	131.07	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1j	198	CYS	C-N-CA	8.05	131.07	120.28
1	jW	184	TRP	CA-C-O	-8.05	112.01	120.55
1	lF	81	ASP	O-C-N	-8.05	112.97	122.15
1	2G	41	SER	N-CA-C	8.05	119.69	111.07
1	38	65	ALA	O-C-N	-8.05	113.58	122.12
1	3a	197	ASP	O-C-N	-8.05	113.77	122.07
1	3s	21	ASN	CA-CB-CG	8.05	120.65	112.60
1	3N	52	LEU	N-CA-C	8.05	120.14	111.36
1	4q	143	ARG	CA-C-O	-8.05	112.28	120.90
1	4Z	88	ALA	N-CA-C	8.05	122.18	110.42
1	6b	120	HIS	CE1-NE2-CD2	-8.05	100.95	109.00
1	6V	91	ILE	CA-C-O	8.05	126.61	118.96
1	7Q	42	ALA	N-CA-C	8.05	120.14	111.36
1	8g	126	VAL	CA-C-N	8.05	128.72	119.94
1	8g	126	VAL	C-N-CA	8.05	128.72	119.94
1	b6	181	VAL	O-C-N	-8.05	114.06	121.87
1	U	25	LYS	N-CA-C	8.05	121.16	111.82
1	ai	87	HIS	CG-CD2-NE2	8.05	115.25	107.20
1	bP	82	ARG	N-CA-C	8.05	119.69	111.07
1	cc	152	ASP	CA-CB-CG	8.05	120.65	112.60
1	dk	57	ASN	CA-CB-CG	-8.05	104.55	112.60
1	dS	146	SER	O-C-N	-8.05	114.22	121.39
1	dW	177	ALA	N-CA-C	8.05	120.71	110.24
1	ea	186	THR	N-CA-CB	8.05	121.69	110.01
1	eX	221	VAL	CA-C-O	8.05	129.85	121.23
1	fq	153	ILE	CA-C-O	-8.05	113.29	121.59
1	gf	11	VAL	O-C-N	-8.05	114.48	123.18
1	gw	45	GLU	N-CA-C	8.05	122.38	110.30
1	hy	120	HIS	CE1-NE2-CD2	-8.05	100.95	109.00
1	ik	154	ARG	N-CA-C	8.05	122.20	110.28
1	3Z	80	TRP	O-C-N	-8.05	113.58	122.12
1	4G	223	GLY	O-C-N	-8.05	113.72	121.77
1	8k	194	ALA	CA-C-N	8.05	131.92	120.49
1	8k	194	ALA	C-N-CA	8.05	131.92	120.49
1	8m	126	VAL	CA-C-N	8.05	128.92	119.98
1	16	156	GLY	O-C-N	-8.05	113.72	121.77
1	er	154	ARG	N-CA-C	8.05	121.91	110.23
1	q	143	ARG	N-CA-C	8.05	121.16	111.82
1	in	134	ILE	O-C-N	8.05	129.80	121.91
1	iq	50	GLN	N-CA-C	8.05	121.07	111.33
1	jz	52	LEU	CA-C-N	8.05	131.07	120.28
1	jz	52	LEU	C-N-CA	8.05	131.07	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1X	161	PHE	N-CA-C	8.05	120.77	111.11
1	kO	210	THR	CA-CB-OG1	8.05	121.67	109.60
1	kS	18	ARG	NH1-CZ-NH2	-8.05	108.83	119.30
1	3p	215	MET	CA-C-N	8.05	130.91	120.44
1	3p	215	MET	C-N-CA	8.05	130.91	120.44
1	4F	112	GLN	OE1-CD-NE2	-8.05	114.55	122.60
1	7b	3	VAL	CA-C-N	8.05	133.54	122.19
1	5E	165	VAL	CA-C-N	8.05	130.91	120.44
1	5E	165	VAL	C-N-CA	8.05	130.91	120.44
1	62	142	VAL	N-CA-C	8.05	118.83	110.62
1	7b	3	VAL	C-N-CA	8.05	133.54	122.19
1	7z	96	MET	N-CA-C	8.05	120.71	110.24
1	8m	126	VAL	C-N-CA	8.05	128.92	119.98
1	b7	211	LEU	N-CA-C	8.05	120.97	111.71
1	n	200	THR	CA-CB-OG1	8.05	121.68	109.60
1	6h	41	SER	O-C-N	-8.05	113.78	122.07
1	8B	125	PRO	CA-C-N	8.05	131.49	120.46
1	8B	125	PRO	C-N-CA	8.05	131.49	120.46
1	8L	181	VAL	N-CA-C	8.05	118.83	110.62
1	9c	132	ARG	NE-CZ-NH1	8.05	129.55	121.50
1	9l	172	LEU	N-CA-C	8.05	121.16	111.82
1	16	92	GLU	CA-C-N	8.05	129.90	119.84
1	16	92	GLU	C-N-CA	8.05	129.90	119.84
1	bf	21	ASN	OD1-CG-ND2	-8.05	114.55	122.60
1	df	141	ILE	N-CA-C	8.05	118.83	110.62
1	fM	116	GLY	N-CA-C	8.05	121.84	112.50
1	B	153	ILE	N-CA-CB	-8.05	101.88	110.82
1	4	22	ALA	N-CA-C	8.05	120.14	111.36
1	1D	212	GLU	N-CA-C	8.05	121.07	111.33
1	ho	177	ALA	CA-C-N	8.05	132.91	120.75
1	ho	177	ALA	C-N-CA	8.05	132.91	120.75
1	ia	137	GLY	O-C-N	-8.05	113.71	122.24
1	iR	58	THR	CA-C-N	8.05	131.28	120.50
1	iR	58	THR	C-N-CA	8.05	131.28	120.50
1	jt	206	GLY	CA-C-N	8.05	129.90	119.84
1	jt	206	GLY	C-N-CA	8.05	129.90	119.84
1	1c	169	TYR	O-C-N	-8.05	113.59	122.12
1	jI	114	GLN	N-CA-C	8.05	119.68	111.07
1	lM	37	ILE	N-CA-C	8.05	124.28	112.61
1	lR	154	ARG	NE-CZ-NH2	-8.05	111.96	119.20
1	3b	9	GLN	N-CA-C	8.05	121.59	110.24
1	3N	131	LYS	N-CA-C	8.05	121.07	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	103	ASP	CA-C-O	8.05	129.08	120.55
1	ak	132	ARG	CD-NE-CZ	-8.05	113.13	124.40
1	cz	39	MET	N-CA-C	8.05	120.05	111.28
1	fi	210	THR	CA-C-N	8.05	131.07	120.28
1	6E	36	VAL	CA-C-N	8.05	126.77	120.33
1	6E	36	VAL	C-N-CA	8.05	126.77	120.33
1	6L	133	TRP	CB-CG-CD1	8.05	138.97	126.90
1	9T	97	ARG	NE-CZ-NH1	8.05	129.55	121.50
1	aC	26	VAL	O-C-N	-8.05	114.06	121.87
1	dL	128	GLU	CA-C-N	8.05	130.86	120.56
1	dL	128	GLU	C-N-CA	8.05	130.86	120.56
1	fg	98	GLU	CA-C-N	8.05	128.07	119.78
1	fg	98	GLU	C-N-CA	8.05	128.07	119.78
1	fi	210	THR	C-N-CA	8.05	131.07	120.28
1	fj	229	ARG	N-CA-C	8.05	118.59	108.45
1	fl	74	ASN	CA-C-N	8.05	131.41	120.38
1	fl	74	ASN	C-N-CA	8.05	131.41	120.38
1	fF	162	ARG	N-CA-CB	8.05	121.93	109.94
1	fG	126	VAL	CA-C-N	8.05	128.71	119.94
1	fG	126	VAL	C-N-CA	8.05	128.71	119.94
1	6	28	GLU	CA-C-O	8.05	129.17	120.24
1	2c	186	THR	N-CA-CB	8.05	122.69	110.30
1	db	62	HIS	ND1-CE1-NE2	8.05	116.45	108.40
1	hh	169	TYR	N-CA-CB	8.04	121.92	109.94
1	hj	168	PHE	CA-CB-CG	8.04	121.84	113.80
1	iD	67	GLN	OE1-CD-NE2	-8.04	114.56	122.60
1	iQ	64	ALA	CA-C-N	8.04	130.90	120.44
1	iQ	64	ALA	C-N-CA	8.04	130.90	120.44
1	jR	129	ILE	N-CA-C	8.04	118.14	110.42
1	1Z	51	ASP	CA-C-N	8.04	130.90	120.44
1	1Z	51	ASP	C-N-CA	8.04	130.90	120.44
1	20	109	SER	CA-C-O	8.05	129.39	120.70
1	kQ	71	GLU	N-CA-C	-8.04	102.59	111.36
1	kW	229	ARG	N-CA-C	8.04	121.58	110.24
1	l7	16	SER	N-CA-C	8.04	119.86	109.64
1	lm	201	ILE	N-CA-C	8.04	118.14	110.42
1	lw	97	ARG	NE-CZ-NH1	8.04	129.54	121.50
1	2a	136	LEU	CA-C-N	8.04	128.85	120.00
1	2a	136	LEU	C-N-CA	8.04	128.85	120.00
1	2h	209	ALA	N-CA-CB	8.04	123.64	110.37
1	2j	63	GLN	N-CA-C	8.04	121.15	111.82
1	2P	54	THR	CA-C-N	8.05	130.90	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2P	54	THR	C-N-CA	8.05	130.90	120.44
1	2P	197	ASP	N-CA-C	8.05	120.05	111.28
1	3U	82	ARG	NE-CZ-NH2	8.05	126.44	119.20
1	4R	153	ILE	N-CA-CB	8.05	119.96	110.95
1	4U	102	SER	N-CA-C	8.05	120.05	111.28
1	6m	130	TYR	CA-C-N	8.05	131.40	120.54
1	6m	130	TYR	C-N-CA	8.05	131.40	120.54
1	aO	56	LEU	N-CA-C	8.05	120.13	111.36
1	V	48	THR	O-C-N	-8.05	113.07	121.60
1	4v	71	GLU	O-C-N	-8.04	113.78	122.07
1	4O	223	GLY	CA-C-N	8.04	128.49	119.32
1	4O	223	GLY	C-N-CA	8.04	128.49	119.32
1	6T	209	ALA	O-C-N	-8.04	112.97	122.95
1	6Y	70	LYS	CA-C-N	8.04	131.40	120.54
1	6Y	70	LYS	C-N-CA	8.04	131.40	120.54
1	7v	37	ILE	N-CA-CB	8.05	115.57	110.50
1	7a	136	LEU	CA-C-N	8.04	128.85	120.00
1	7a	136	LEU	C-N-CA	8.04	128.85	120.00
1	9A	70	LYS	N-CA-C	8.04	119.68	111.07
1	10	25	LYS	CA-C-O	8.04	129.19	120.10
1	ai	117	TRP	CB-CG-CD1	-8.04	114.83	126.90
1	bu	115	ILE	CA-C-N	8.04	128.87	119.94
1	bu	115	ILE	C-N-CA	8.04	128.87	119.94
1	bw	176	GLN	CA-C-O	8.04	129.08	119.59
1	bN	56	LEU	CA-C-O	8.04	129.28	119.79
1	fa	63	GLN	N-CA-C	8.05	120.05	111.28
1	cJ	30	LYS	CA-C-O	8.04	128.67	119.18
1	es	125	PRO	N-CA-CB	8.04	108.31	102.28
1	fc	75	GLU	N-CA-C	8.04	120.05	111.28
1	gi	224	PRO	CA-C-N	8.04	129.21	120.44
1	gi	224	PRO	C-N-CA	8.04	129.21	120.44
1	hj	59	VAL	O-C-N	-8.04	114.05	122.66
1	hD	173	ARG	NE-CZ-NH2	-8.04	111.96	119.20
1	ia	167	ARG	NH1-CZ-NH2	-8.04	108.84	119.30
1	lI	172	LEU	N-CA-C	8.04	122.19	112.38
1	2j	62	HIS	N-CA-C	8.04	122.48	111.54
1	94	115	ILE	CA-C-O	8.04	129.32	120.71
1	9Y	125	PRO	CA-C-N	8.04	131.48	120.46
1	js	62	HIS	ND1-CG-CD2	8.04	114.14	106.10
1	jE	121	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	6j	77	ALA	CB-CA-C	-8.04	97.44	110.79
1	9Y	125	PRO	C-N-CA	8.04	131.48	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	143	ARG	NE-CZ-NH1	8.04	129.54	121.50
1	bV	133	TRP	N-CA-CB	8.04	121.67	110.01
1	eY	120	HIS	N-CA-C	8.04	120.97	110.43
1	fZ	226	HIS	CA-CB-CG	8.04	121.84	113.80
1	g7	87	HIS	ND1-CE1-NE2	8.04	116.44	108.40
1	jW	50	GLN	N-CA-C	8.04	120.05	111.28
1	kp	19	THR	CA-C-N	8.04	130.89	120.44
1	kp	19	THR	C-N-CA	8.04	130.89	120.44
1	kU	229	ARG	NE-CZ-NH2	8.04	126.44	119.20
1	kV	101	GLY	CA-C-N	8.04	131.71	120.29
1	kV	101	GLY	C-N-CA	8.04	131.71	120.29
1	3h	63	GLN	N-CA-C	8.04	120.05	111.28
1	3p	203	LYS	O-C-N	-8.04	113.79	122.07
1	4M	223	GLY	CA-C-N	8.04	127.80	119.76
1	4M	223	GLY	C-N-CA	8.04	127.80	119.76
1	5U	57	ASN	OD1-CG-ND2	-8.04	114.56	122.60
1	6M	180	GLU	O-C-N	-8.04	113.60	122.12
1	9H	143	ARG	NE-CZ-NH1	8.04	129.54	121.50
1	aV	166	ASP	N-CA-C	8.04	120.04	111.28
1	1c	136	LEU	CA-C-N	8.04	128.91	119.98
1	1c	136	LEU	C-N-CA	8.04	128.91	119.98
1	ep	152	ASP	CA-CB-CG	-8.04	104.56	112.60
1	g	206	GLY	O-C-N	-8.04	113.73	121.77
1	gO	70	LYS	N-CA-C	8.04	120.04	111.28
1	hS	86	VAL	N-CA-CB	8.04	119.73	110.49
1	i8	55	MET	O-C-N	-8.04	113.60	122.12
1	if	36	VAL	CA-CB-CG2	8.04	124.07	110.40
1	iK	84	HIS	CA-C-O	-8.04	112.10	120.38
1	jH	55	MET	CA-C-N	8.04	131.71	120.29
1	3H	5	ASN	CA-C-N	8.04	133.57	122.07
1	68	1	PRO	CB-CA-C	8.04	125.38	110.10
1	84	150	ILE	O-C-N	-8.04	114.03	121.91
1	f4	49	PRO	CB-CA-C	8.04	124.82	111.56
1	1z	121	ASN	O-C-N	-8.04	114.89	121.80
1	g7	177	ALA	N-CA-C	8.04	120.96	110.43
1	hp	110	THR	CA-C-N	8.04	131.85	120.28
1	hp	110	THR	C-N-CA	8.04	131.85	120.28
1	hU	70	LYS	N-CA-C	8.04	121.06	111.33
1	j9	103	ASP	CA-C-N	8.04	131.83	120.42
1	j9	103	ASP	C-N-CA	8.04	131.83	120.42
1	jF	137	GLY	CA-C-N	8.04	131.39	120.38
1	jF	137	GLY	C-N-CA	8.04	131.39	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jH	55	MET	C-N-CA	8.04	131.71	120.29
1	25	82	ARG	NE-CZ-NH2	-8.04	111.97	119.20
1	lv	137	GLY	N-CA-C	8.04	121.83	112.50
1	lH	98	GLU	CA-C-N	8.04	128.51	119.83
1	lH	98	GLU	C-N-CA	8.04	128.51	119.83
1	30	230	VAL	CA-C-O	8.04	128.75	120.39
1	3H	5	ASN	C-N-CA	8.04	133.57	122.07
1	5L	184	TRP	CA-C-O	8.04	129.50	120.90
1	5T	207	PRO	CA-C-O	-8.04	112.42	121.43
1	jI	65	ALA	N-CA-C	8.04	120.04	111.28
1	l1	143	ARG	N-CA-C	8.04	120.75	111.11
1	lv	73	ILE	N-CA-C	8.04	118.80	110.36
1	3O	180	GLU	CA-C-O	-8.04	112.38	120.82
1	4V	135	ILE	O-C-N	-8.04	114.03	121.91
1	2K	82	ARG	NE-CZ-NH2	-8.04	111.97	119.20
1	40	62	HIS	CA-C-O	8.04	130.95	120.98
1	8y	216	THR	N-CA-C	-8.04	101.19	113.89
1	9e	212	GLU	O-C-N	-8.04	113.73	122.09
1	aM	183	ASN	CA-CB-CG	-8.04	104.56	112.60
1	aQ	14	ALA	C-N-CA	8.04	131.32	120.63
1	cr	29	GLU	CA-C-O	8.04	128.68	119.27
1	fe	66	MET	O-C-N	-8.04	113.60	122.12
1	5r	219	GLN	N-CA-C	8.04	121.94	109.96
1	6U	79	GLU	N-CA-C	8.04	120.95	111.71
1	6W	192	GLN	N-CA-C	8.04	120.12	111.36
1	7A	16	SER	CA-C-O	-8.04	111.53	119.49
1	8a	118	MET	O-C-N	-8.04	112.99	122.15
1	8F	55	MET	CA-C-O	-8.04	112.42	120.70
1	aQ	14	ALA	CA-C-N	8.04	131.32	120.63
1	dn	132	ARG	CA-C-N	8.04	131.05	120.28
1	dn	132	ARG	C-N-CA	8.04	131.05	120.28
1	1x	116	GLY	O-C-N	-8.04	114.17	122.13
1	93	111	LEU	N-CA-C	8.04	120.04	111.28
1	9K	171	THR	CA-C-N	8.04	131.05	120.28
1	9K	171	THR	C-N-CA	8.04	131.05	120.28
1	aA	142	VAL	N-CA-C	8.04	118.14	110.42
1	bC	18	ARG	NE-CZ-NH1	8.04	129.54	121.50
1	bM	144	MET	N-CA-C	8.04	120.75	111.11
1	d6	22	ALA	CA-C-N	8.04	131.96	120.79
1	d6	22	ALA	C-N-CA	8.04	131.96	120.79
1	fx	144	MET	CG-SD-CE	-8.04	83.22	100.90
1	fW	154	ARG	NE-CZ-NH2	8.04	126.43	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	30	LYS	CA-C-N	8.04	131.85	120.28
1	gf	30	LYS	C-N-CA	8.04	131.85	120.28
1	gG	195	ASN	CA-C-N	8.04	129.89	119.84
1	gG	195	ASN	C-N-CA	8.04	129.89	119.84
1	gH	79	GLU	CA-C-N	8.04	130.89	120.44
1	gH	79	GLU	C-N-CA	8.04	130.89	120.44
1	1F	181	VAL	N-CA-C	8.04	118.13	110.42
1	hS	217	ALA	CA-C-N	-8.04	110.62	122.35
1	hS	217	ALA	C-N-CA	-8.04	110.62	122.35
1	kp	141	ILE	CA-C-N	8.04	131.47	120.46
1	2n	162	ARG	NE-CZ-NH2	-8.04	111.97	119.20
1	34	12	HIS	CB-CG-CD2	-8.04	120.75	131.20
1	4Q	56	LEU	N-CA-C	8.04	120.75	111.11
1	7Z	77	ALA	CA-C-N	8.04	131.39	120.38
1	7Z	77	ALA	C-N-CA	8.04	131.39	120.38
1	aw	129	ILE	N-CA-C	8.04	118.82	110.62
1	gv	143	ARG	NE-CZ-NH1	8.03	129.53	121.50
1	ip	129	ILE	N-CA-CB	8.03	119.95	110.55
1	ja	65	ALA	N-CA-C	8.04	120.04	111.28
1	jB	167	ARG	NE-CZ-NH1	8.04	129.53	121.50
1	k1	117	TRP	O-C-N	-8.04	113.60	122.12
1	k7	159	GLU	O-C-N	-8.04	113.02	121.30
1	ke	24	VAL	N-CA-C	8.04	118.82	110.62
1	kp	141	ILE	C-N-CA	8.04	131.47	120.46
1	9x	180	GLU	N-CA-C	8.04	120.95	111.71
1	eZ	172	LEU	N-CA-C	8.04	120.04	111.28
1	kV	211	LEU	N-CA-C	8.03	120.04	111.28
1	ls	82	ARG	N-CA-C	8.03	120.04	111.28
1	2R	36	VAL	N-CA-C	8.04	118.84	110.72
1	3w	162	ARG	NE-CZ-NH2	8.03	126.43	119.20
1	4N	83	LEU	N-CA-C	8.03	119.73	110.97
1	6s	15	ILE	N-CA-C	8.04	120.22	109.37
1	7q	111	LEU	O-C-N	-8.04	113.60	122.12
1	d7	143	ARG	CD-NE-CZ	8.04	135.65	124.40
1	fs	173	ARG	N-CA-C	8.04	120.04	111.28
1	6z	21	ASN	CA-C-N	8.03	130.88	120.44
1	6z	21	ASN	C-N-CA	8.03	130.88	120.44
1	6H	137	GLY	N-CA-C	8.03	122.63	112.83
1	7d	225	GLY	O-C-N	-8.03	116.44	122.71
1	7r	189	LEU	N-CA-C	8.03	120.12	111.36
1	8A	58	THR	CA-C-N	8.03	132.50	120.77
1	8A	58	THR	C-N-CA	8.03	132.50	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	99	173	ARG	CA-C-O	8.03	129.18	120.10
1	9v	206	GLY	CA-C-N	8.04	127.75	119.56
1	9v	206	GLY	C-N-CA	8.04	127.75	119.56
1	9O	43	LEU	O-C-N	-8.04	113.60	122.12
1	a2	165	VAL	O-C-N	-8.03	114.04	121.91
1	13	131	LYS	N-CA-C	8.04	120.04	111.28
1	fm	82	ARG	NE-CZ-NH1	8.04	129.54	121.50
1	b4	67	GLN	CA-C-O	8.03	129.07	120.55
1	bQ	91	ILE	O-C-N	-8.03	114.11	122.63
1	dc	162	ARG	NH1-CZ-NH2	-8.03	108.86	119.30
1	e7	17	PRO	CA-C-N	8.04	130.89	120.44
1	e7	17	PRO	C-N-CA	8.04	130.89	120.44
1	f3	57	ASN	O-C-N	-8.03	112.99	122.15
1	g4	126	VAL	N-CA-C	8.04	118.81	110.62
1	B	168	PHE	CA-CB-CG	8.03	121.83	113.80
1	gF	188	THR	N-CA-C	8.03	120.04	111.28
1	3K	68	MET	CA-C-O	8.03	129.06	120.55
1	1D	169	TYR	N-CA-C	8.03	120.03	111.28
1	hg	183	ASN	CA-CB-CG	-8.03	104.57	112.60
1	hy	47	ALA	O-C-N	8.03	132.49	123.01
1	iD	110	THR	CA-CB-OG1	8.03	121.65	109.60
1	j2	62	HIS	CB-CG-ND1	8.03	134.75	122.70
1	1Z	100	ARG	NE-CZ-NH1	8.03	129.53	121.50
1	ka	156	GLY	CA-C-N	8.03	129.88	119.84
1	ka	156	GLY	C-N-CA	8.03	129.88	119.84
1	kq	79	GLU	CA-C-N	8.03	131.04	120.28
1	kq	79	GLU	C-N-CA	8.03	131.04	120.28
1	lr	116	GLY	O-C-N	-8.03	114.40	122.19
1	36	32	PHE	CA-CB-CG	-8.03	105.77	113.80
1	4E	94	GLY	O-C-N	-8.03	114.38	123.62
1	8R	205	LEU	N-CA-C	8.03	120.04	111.28
1	9x	204	ALA	N-CA-C	8.03	120.04	111.28
1	er	68	MET	N-CA-C	8.03	120.04	111.28
1	lv	64	ALA	O-C-N	-8.03	113.42	122.09
1	2P	33	SER	CA-C-O	-8.03	113.22	120.13
1	2V	4	GLN	N-CA-C	8.03	122.46	111.54
1	4J	124	ILE	O-C-N	-8.03	115.85	121.55
1	5o	66	MET	N-CA-C	8.03	120.75	111.11
1	66	137	GLY	O-C-N	8.03	129.98	122.19
1	5u	135	ILE	CB-CA-C	8.03	122.98	112.14
1	6n	10	MET	CA-C-O	8.03	129.17	120.58
1	73	205	LEU	CA-C-O	8.03	129.07	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	80	33	SER	N-CA-C	8.03	121.00	109.84
1	8w	199	LYS	N-CA-C	8.03	120.75	111.11
1	11	10	MET	N-CA-C	8.03	122.15	110.42
1	az	167	ARG	CA-C-N	8.03	131.04	120.28
1	az	167	ARG	C-N-CA	8.03	131.04	120.28
1	bH	77	ALA	CA-C-N	8.03	131.70	120.29
1	bH	77	ALA	C-N-CA	8.03	131.70	120.29
1	bK	198	CYS	CA-C-N	8.03	131.85	120.28
1	bK	198	CYS	C-N-CA	8.03	131.85	120.28
1	bN	183	ASN	CA-CB-CG	8.03	120.63	112.60
1	cq	153	ILE	O-C-N	-8.03	113.89	122.81
1	dh	63	GLN	N-CA-C	8.03	120.03	111.28
1	dj	115	ILE	CA-C-N	8.03	128.84	120.00
1	dj	115	ILE	C-N-CA	8.03	128.84	120.00
1	eB	66	MET	CA-C-N	8.03	130.88	120.44
1	eB	66	MET	C-N-CA	8.03	130.88	120.44
1	l	53	ASN	OD1-CG-ND2	-8.03	114.57	122.60
1	dn	176	GLN	CA-C-O	8.03	129.07	119.59
1	e7	92	GLU	CB-CA-C	8.03	120.42	108.86
1	ed	91	ILE	N-CA-C	8.03	119.77	108.93
1	f3	125	PRO	CA-C-O	-8.03	115.19	121.38
1	g2	12	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
1	g4	183	ASN	CA-C-O	8.03	129.06	120.55
1	g7	159	GLU	CA-C-N	8.03	127.96	119.85
1	g7	159	GLU	C-N-CA	8.03	127.96	119.85
1	y	173	ARG	NE-CZ-NH1	8.03	129.53	121.50
1	6	156	GLY	O-C-N	-8.03	113.74	121.77
1	gx	131	LYS	N-CA-C	8.03	121.05	111.33
1	gA	21	ASN	CA-C-N	8.03	131.38	120.54
1	gA	21	ASN	C-N-CA	8.03	131.38	120.54
1	ib	124	ILE	O-C-N	-8.03	111.95	121.10
1	ip	24	VAL	O-C-N	-8.03	114.08	121.87
1	jb	80	TRP	O-C-N	8.03	130.76	122.09
1	jM	200	THR	CA-C-N	8.03	130.68	120.56
1	jM	200	THR	C-N-CA	8.03	130.68	120.56
1	kn	117	TRP	N-CA-C	8.03	119.66	111.07
1	kB	192	GLN	N-CA-C	8.03	124.62	111.37
1	lM	203	LYS	CA-C-N	8.03	132.52	120.31
1	lM	203	LYS	C-N-CA	8.03	132.52	120.31
1	2o	87	HIS	ND1-CE1-NE2	8.03	116.43	108.40
1	3z	193	ASN	CA-CB-CG	-8.03	104.57	112.60
1	5d	98	GLU	CA-C-N	8.03	128.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5d	98	GLU	C-N-CA	8.03	128.09	119.90
1	7z	146	SER	CA-C-N	8.03	129.88	119.84
1	eF	126	VAL	CA-C-N	8.03	128.83	120.00
1	eF	126	VAL	C-N-CA	8.03	128.83	120.00
1	iz	167	ARG	NE-CZ-NH2	-8.03	111.97	119.20
1	jE	213	GLU	N-CA-C	8.03	120.74	111.11
1	k8	168	PHE	CA-C-N	8.03	130.88	120.44
1	k8	168	PHE	C-N-CA	8.03	130.88	120.44
1	2T	72	THR	CA-C-N	8.03	131.46	120.46
1	2T	72	THR	C-N-CA	8.03	131.46	120.46
1	64	132	ARG	NE-CZ-NH2	-8.03	111.97	119.20
1	7z	146	SER	C-N-CA	8.03	129.88	119.84
1	7Q	5	ASN	N-CA-C	8.03	120.94	111.71
1	3i	114	GLN	N-CA-C	-8.03	101.29	112.45
1	4A	21	ASN	N-CA-C	8.03	120.11	111.36
1	9I	166	ASP	CA-C-N	8.03	130.88	120.44
1	9I	166	ASP	C-N-CA	8.03	130.88	120.44
1	at	79	GLU	N-CA-C	8.03	120.03	111.28
1	bF	104	ILE	CA-C-O	8.03	129.16	120.57
1	bU	121	ASN	OD1-CG-ND2	-8.03	114.57	122.60
1	cF	103	ASP	CA-C-O	8.03	129.39	119.11
1	dN	27	VAL	N-CA-CB	8.03	121.46	110.54
1	e4	16	SER	CA-C-N	8.03	128.11	119.28
1	e4	16	SER	C-N-CA	8.03	128.11	119.28
1	ej	179	GLN	OE1-CD-NE2	8.03	130.63	122.60
1	ej	208	ALA	CA-C-O	8.03	127.51	119.08
1	f3	42	ALA	O-C-N	-8.03	113.61	122.12
1	3	230	VAL	N-CA-CB	8.03	118.22	111.64
1	5u	46	GLY	O-C-N	-8.03	116.01	122.51
1	fW	166	ASP	CA-CB-CG	-8.03	104.57	112.60
1	gz	142	VAL	CA-C-N	8.03	130.87	120.44
1	gz	142	VAL	C-N-CA	8.03	130.87	120.44
1	hy	215	MET	N-CA-C	8.03	119.66	111.07
1	hH	117	TRP	N-CA-C	8.03	120.11	111.36
1	jN	76	GLU	N-CA-C	8.03	120.03	111.28
1	jW	65	ALA	CA-C-O	8.03	129.06	120.55
1	k7	190	LEU	CA-C-N	8.03	130.67	120.56
1	k7	190	LEU	C-N-CA	8.03	130.67	120.56
1	ks	216	THR	N-CA-C	-8.03	104.01	113.88
1	kx	25	LYS	N-CA-C	8.03	119.66	111.07
1	kG	50	GLN	O-C-N	-8.03	113.61	122.12
1	l7	118	MET	N-CA-C	8.03	120.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a9	179	GLN	CA-C-N	8.03	131.04	120.28
1	a9	179	GLN	C-N-CA	8.03	131.04	120.28
1	2O	213	GLU	CA-C-N	8.03	131.84	120.28
1	2O	213	GLU	C-N-CA	8.03	131.84	120.28
1	43	226	HIS	N-CA-C	-8.03	103.28	113.23
1	5x	79	GLU	CA-C-O	8.03	129.26	119.79
1	7s	21	ASN	CA-CB-CG	-8.03	104.57	112.60
1	7L	130	TYR	O-C-N	-8.03	113.80	122.07
1	4g	222	GLY	CA-C-N	8.03	134.47	121.87
1	4g	222	GLY	C-N-CA	8.03	134.47	121.87
1	8A	17	PRO	CA-C-N	8.03	131.95	120.79
1	8A	17	PRO	C-N-CA	8.03	131.95	120.79
1	94	33	SER	CA-C-O	-8.03	112.37	120.64
1	a4	138	LEU	O-C-N	-8.03	113.80	122.07
1	ai	186	THR	CA-C-O	-8.03	112.04	120.55
1	az	75	GLU	CA-C-O	-8.03	111.96	120.63
1	aN	53	ASN	CA-CB-CG	-8.03	104.58	112.60
1	bv	199	LYS	CA-C-O	8.03	129.20	119.97
1	dO	30	LYS	CB-CA-C	8.03	124.50	110.85
1	bz	84	HIS	CA-CB-CG	8.03	121.83	113.80
1	bA	51	ASP	CA-C-N	8.03	131.03	120.28
1	bA	51	ASP	C-N-CA	8.03	131.03	120.28
1	bZ	52	LEU	N-CA-C	8.03	120.03	111.28
1	cd	199	LYS	CA-C-O	8.03	129.06	120.55
1	eb	12	HIS	CE1-NE2-CD2	-8.03	100.97	109.00
1	dK	23	TRP	N-CA-C	8.03	119.66	111.07
1	fH	84	HIS	CA-C-N	8.03	129.87	119.84
1	fH	84	HIS	C-N-CA	8.03	129.87	119.84
1	s	136	LEU	CA-C-N	8.03	128.85	119.94
1	s	136	LEU	C-N-CA	8.03	128.85	119.94
1	K	79	GLU	CA-C-N	8.03	131.03	120.28
1	K	79	GLU	C-N-CA	8.03	131.03	120.28
1	i2	125	PRO	CA-C-N	8.02	130.67	120.56
1	iA	124	ILE	CA-C-O	8.02	125.06	119.20
1	4i	62	HIS	ND1-CG-CD2	8.02	114.12	106.10
1	fD	114	GLN	N-CA-C	8.02	120.03	111.28
1	gq	66	MET	N-CA-C	8.02	121.13	111.82
1	gw	25	LYS	N-CA-C	8.02	120.03	111.28
1	i2	125	PRO	C-N-CA	8.02	130.67	120.56
1	1X	165	VAL	N-CA-C	8.02	118.78	110.36
1	gV	55	MET	O-C-N	-8.02	113.81	122.07
1	hi	227	LYS	N-CA-C	-8.02	102.80	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	171	THR	CA-C-N	8.02	130.87	120.44
1	ji	171	THR	C-N-CA	8.02	130.87	120.44
1	jB	11	VAL	O-C-N	-8.02	114.52	123.10
1	6C	147	PRO	CA-C-N	8.02	136.87	121.54
1	6C	147	PRO	C-N-CA	8.02	136.87	121.54
1	bR	67	GLN	N-CA-C	8.02	119.66	111.07
1	eW	148	THR	O-C-N	-8.02	113.00	122.95
1	i5	224	PRO	CA-C-N	8.02	134.35	122.64
1	i5	224	PRO	C-N-CA	8.02	134.35	122.64
1	1Q	86	VAL	N-CA-C	8.02	120.20	109.37
1	jy	51	ASP	CA-C-N	8.02	130.87	120.44
1	jy	51	ASP	C-N-CA	8.02	130.87	120.44
1	k3	48	THR	CA-C-N	8.02	128.78	119.47
1	k3	48	THR	C-N-CA	8.02	128.78	119.47
1	kL	72	THR	N-CA-CB	8.02	121.64	110.01
1	2p	26	VAL	O-C-N	-8.02	114.09	121.87
1	kT	121	ASN	CA-C-O	-8.02	112.08	119.62
1	25	57	ASN	CA-CB-CG	-8.02	104.58	112.60
1	l3	162	ARG	NE-CZ-NH1	8.02	129.52	121.50
1	l4	143	ARG	N-CA-C	8.02	120.02	111.28
1	li	141	ILE	CA-C-N	8.02	131.45	120.46
1	li	141	ILE	C-N-CA	8.02	131.45	120.46
1	lK	121	ASN	CA-C-O	-8.02	112.08	119.62
1	3U	104	ILE	O-C-N	8.02	130.09	121.83
1	7p	126	VAL	CA-C-O	8.02	129.39	120.64
1	dK	181	VAL	CA-C-N	8.02	130.87	120.44
1	lj	89	GLY	O-C-N	-8.02	113.75	121.77
1	3i	59	VAL	N-CA-C	8.02	118.78	110.36
1	3n	145	TYR	CB-CG-CD1	-8.02	108.77	120.80
1	3W	43	LEU	N-CA-C	8.02	120.02	111.28
1	4s	72	THR	CA-C-N	8.02	130.67	120.56
1	4s	72	THR	C-N-CA	8.02	130.67	120.56
1	5a	15	ILE	N-CA-CB	8.02	119.72	110.82
1	71	200	THR	CA-C-N	8.02	130.83	120.56
1	71	200	THR	C-N-CA	8.02	130.83	120.56
1	85	131	LYS	N-CA-C	8.02	120.03	111.28
1	87	120	HIS	CA-CB-CG	8.02	121.82	113.80
1	8l	185	MET	CA-C-O	8.02	129.17	120.10
1	8v	34	PRO	CA-C-N	8.02	131.03	120.28
1	8v	34	PRO	C-N-CA	8.02	131.03	120.28
1	9h	87	HIS	CA-CB-CG	8.02	121.82	113.80
1	9L	39	MET	N-CA-C	8.02	120.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	117	TRP	O-C-N	-8.02	113.75	122.09
1	by	2	ILE	CA-C-O	8.02	128.98	120.48
1	bD	199	LYS	N-CA-C	8.02	120.03	111.28
1	c5	145	TYR	N-CA-C	8.02	121.13	111.82
1	c7	112	GLN	O-C-N	-8.02	113.61	122.12
1	co	5	ASN	CA-CB-CG	-8.02	104.58	112.60
1	cW	156	GLY	CA-C-N	8.02	127.96	119.05
1	cW	156	GLY	C-N-CA	8.02	127.96	119.05
1	dK	181	VAL	C-N-CA	8.02	130.87	120.44
1	el	162	ARG	NE-CZ-NH2	-8.02	111.98	119.20
1	eu	36	VAL	N-CA-C	8.02	118.80	110.62
1	eJ	84	HIS	CB-CG-CD2	-8.02	120.77	131.20
1	ft	189	LEU	O-C-N	-8.02	113.61	122.12
1	i	98	GLU	CA-C-O	8.02	125.64	119.46
1	aI	84	HIS	CE1-NE2-CD2	-8.02	100.98	109.00
1	dQ	124	ILE	N-CA-C	-8.02	98.79	107.77
1	1s	77	ALA	N-CA-C	8.02	119.65	111.07
1	eG	21	ASN	CA-CB-CG	-8.02	104.58	112.60
1	fa	74	ASN	CA-C-N	8.02	130.87	120.44
1	fa	74	ASN	C-N-CA	8.02	130.87	120.44
1	f	175	GLU	CA-C-O	-8.02	110.75	119.97
1	v	167	ARG	NE-CZ-NH2	-8.02	111.98	119.20
1	hg	9	GLN	OE1-CD-NE2	-8.02	114.58	122.60
1	hh	199	LYS	N-CA-C	8.02	120.02	111.28
1	3L	87	HIS	CA-CB-CG	8.02	121.82	113.80
1	64	115	ILE	CA-C-N	8.02	128.82	120.00
1	8p	70	LYS	CA-C-O	8.02	129.05	120.55
1	ac	82	ARG	NE-CZ-NH1	8.02	129.52	121.50
1	hu	114	GLN	N-CA-C	8.02	120.02	111.28
1	i7	81	ASP	N-CA-C	8.02	120.02	111.28
1	iT	146	SER	CA-C-O	8.02	125.25	119.32
1	jS	126	VAL	N-CA-C	8.02	118.80	110.62
1	ko	201	ILE	CA-C-N	8.02	131.03	120.28
1	ko	201	ILE	C-N-CA	8.02	131.03	120.28
1	kq	177	ALA	N-CA-C	8.02	120.67	110.24
1	3h	98	GLU	CA-C-O	-8.02	111.63	120.69
1	64	115	ILE	C-N-CA	8.02	128.82	120.00
1	bB	48	THR	CA-C-O	-8.02	112.05	120.87
1	f2	143	ARG	N-CA-C	8.02	119.65	111.07
1	q	12	HIS	CG-CD2-NE2	8.02	115.22	107.20
1	S	164	TYR	CA-C-O	8.02	129.05	120.55
1	l1	135	ILE	CA-C-N	8.02	131.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	135	ILE	C-N-CA	8.02	131.02	120.28
1	lM	162	ARG	NE-CZ-NH1	8.02	129.52	121.50
1	7j	59	VAL	N-CA-CB	8.02	120.04	111.46
1	7x	56	LEU	CA-C-O	8.02	129.05	120.55
1	7y	5	ASN	CA-CB-CG	8.02	120.62	112.60
1	8r	86	VAL	CA-C-N	8.02	132.79	121.24
1	8r	86	VAL	C-N-CA	8.02	132.79	121.24
1	9r	65	ALA	N-CA-C	8.02	120.10	111.36
1	aq	100	ARG	NE-CZ-NH2	-8.02	111.98	119.20
1	aX	206	GLY	CA-C-N	8.02	129.86	119.84
1	aX	206	GLY	C-N-CA	8.02	129.86	119.84
1	cb	50	GLN	N-CA-C	8.02	119.65	111.07
1	fY	188	THR	CA-CB-CG2	8.02	124.13	110.50
1	i	84	HIS	CA-C-N	8.02	128.50	119.92
1	i	84	HIS	C-N-CA	8.02	128.50	119.92
1	n	12	HIS	CA-CB-CG	-8.02	105.78	113.80
1	A	97	ARG	NH1-CZ-NH2	-8.02	108.88	119.30
1	1I	229	ARG	CA-C-N	8.02	131.29	120.63
1	1I	229	ARG	C-N-CA	8.02	131.29	120.63
1	hK	140	LYS	N-CA-C	8.02	120.02	111.28
1	iC	226	HIS	N-CA-C	8.02	122.34	110.48
1	k2	16	SER	CA-C-N	8.02	127.31	118.97
1	7G	178	SER	N-CA-C	8.02	120.67	110.33
1	bB	193	ASN	CA-CB-CG	-8.02	104.58	112.60
1	1l	14	ALA	CA-C-N	8.02	131.29	120.63
1	1l	14	ALA	C-N-CA	8.02	131.29	120.63
1	fS	152	ASP	CA-CB-CG	-8.02	104.58	112.60
1	gh	200	THR	O-C-N	-8.02	113.81	122.07
1	go	98	GLU	O-C-N	-8.02	114.81	121.38
1	i4	20	LEU	CA-C-O	8.02	129.05	120.55
1	ib	20	LEU	O-C-N	-8.02	113.43	122.09
1	iy	7	GLN	N-CA-C	8.02	121.85	110.23
1	j5	184	TRP	N-CA-C	8.02	119.65	111.07
1	ja	167	ARG	CA-C-N	8.02	130.86	120.44
1	ja	167	ARG	C-N-CA	8.02	130.86	120.44
1	k2	16	SER	C-N-CA	8.02	127.31	118.97
1	21	137	GLY	N-CA-C	8.02	122.35	112.73
1	lu	81	ASP	CA-CB-CG	8.02	120.62	112.60
1	lN	132	ARG	NH1-CZ-NH2	-8.02	108.88	119.30
1	lN	36	VAL	N-CA-C	8.02	118.06	110.53
1	2j	124	ILE	O-C-N	-8.02	115.21	121.46
1	2q	173	ARG	NH1-CZ-NH2	-8.02	108.88	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	193	ASN	CA-C-N	8.02	132.85	120.75
1	2t	193	ASN	C-N-CA	8.02	132.85	120.75
1	4W	104	ILE	O-C-N	-8.02	114.05	121.91
1	42	42	ALA	CA-C-O	8.02	128.92	120.42
1	4N	84	HIS	CA-C-N	8.02	129.86	119.84
1	4N	84	HIS	C-N-CA	8.02	129.86	119.84
1	4R	140	LYS	O-C-N	-8.02	113.01	122.15
1	5i	194	ALA	CA-C-N	8.02	132.13	120.51
1	5i	194	ALA	C-N-CA	8.02	132.13	120.51
1	eO	187	GLU	CA-C-N	8.02	130.86	120.44
1	5o	54	THR	CA-C-N	8.02	131.36	120.54
1	5o	54	THR	C-N-CA	8.02	131.36	120.54
1	5u	92	GLU	CA-C-N	8.02	129.86	119.84
1	5u	92	GLU	C-N-CA	8.02	129.86	119.84
1	7i	36	VAL	N-CA-C	8.02	121.11	111.09
1	7z	167	ARG	N-CA-C	8.02	120.73	111.11
1	8S	212	GLU	N-CA-C	8.02	120.02	111.28
1	91	183	ASN	CA-CB-CG	-8.02	104.58	112.60
1	97	39	MET	CA-C-O	8.02	129.24	120.82
1	9h	32	PHE	N-CA-CB	8.02	123.74	110.92
1	aR	25	LYS	N-CA-C	8.02	119.65	111.07
1	aY	134	ILE	O-C-N	-8.02	114.05	121.91
1	eO	187	GLU	C-N-CA	8.02	130.86	120.44
1	cC	150	ILE	N-CA-C	8.02	121.07	111.05
1	cN	95	GLN	OE1-CD-NE2	-8.02	114.58	122.60
1	dy	199	LYS	CA-C-O	8.02	129.05	120.55
1	eb	62	HIS	N-CA-C	8.02	122.45	111.39
1	eO	195	ASN	O-C-N	-8.02	114.81	121.38
1	B	64	ALA	CA-C-N	8.02	130.86	120.44
1	f7	179	GLN	O-C-N	-8.02	113.62	122.12
1	d	51	ASP	CA-CB-CG	8.02	120.62	112.60
1	B	64	ALA	C-N-CA	8.02	130.86	120.44
1	3	40	PHE	CA-C-N	8.02	130.86	120.44
1	3	40	PHE	C-N-CA	8.02	130.86	120.44
1	M	139	ASN	N-CA-C	8.02	120.02	111.28
1	gC	165	VAL	CA-C-O	8.01	129.28	120.95
1	ht	70	LYS	N-CA-C	8.01	120.01	111.28
1	hG	213	GLU	N-CA-C	8.01	120.73	111.11
1	hR	66	MET	N-CA-C	8.01	120.09	111.36
1	iu	136	LEU	CA-C-N	8.01	129.01	120.03
1	iu	136	LEU	C-N-CA	8.01	129.01	120.03
1	g3	46	GLY	CA-C-N	8.01	134.00	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	62	HIS	CA-CB-CG	-8.01	105.79	113.80
1	kN	210	THR	CA-C-N	8.01	131.02	120.28
1	kN	210	THR	C-N-CA	8.01	131.02	120.28
1	kU	98	GLU	O-C-N	-8.01	113.27	121.28
1	lb	179	GLN	N-CA-C	8.01	121.03	111.33
1	4w	97	ARG	O-C-N	-8.01	114.84	123.26
1	7h	163	ASP	O-C-N	-8.01	113.82	122.07
1	g3	46	GLY	C-N-CA	8.01	134.00	121.26
1	lj	128	GLU	N-CA-C	8.01	120.09	111.36
1	lC	174	ALA	O-C-N	-8.01	112.50	122.35
1	2b	28	GLU	N-CA-C	8.01	119.64	111.07
1	d1	141	ILE	CA-C-N	8.01	130.94	120.60
1	2j	90	PRO	N-CA-C	8.01	123.64	111.14
1	3t	55	MET	N-CA-C	8.01	120.01	111.28
1	3L	59	VAL	O-C-N	-8.01	113.86	122.83
1	4k	187	GLU	CA-C-O	8.01	129.23	120.82
1	4l	15	ILE	O-C-N	-8.01	114.50	122.67
1	6I	82	ARG	N-CA-C	8.01	120.09	111.36
1	6N	199	LYS	N-CA-C	8.01	121.12	111.82
1	78	181	VAL	N-CA-C	-8.01	103.09	111.58
1	7c	35	GLU	N-CA-C	-8.01	102.95	112.89
1	d1	141	ILE	C-N-CA	8.01	130.94	120.60
1	d8	22	ALA	N-CA-C	8.01	120.02	111.28
1	81	18	ARG	NE-CZ-NH2	-8.01	111.99	119.20
1	9F	103	ASP	CA-C-N	8.01	131.44	120.46
1	9F	103	ASP	C-N-CA	8.01	131.44	120.46
1	9V	192	GLN	N-CA-C	8.01	120.01	111.28
1	bA	105	ALA	CA-C-O	8.01	129.25	119.31
1	bN	193	ASN	OD1-CG-ND2	-8.01	114.59	122.60
1	cM	139	ASN	CA-C-N	8.01	131.02	120.28
1	cM	139	ASN	C-N-CA	8.01	131.02	120.28
1	1n	81	ASP	CA-CB-CG	8.01	120.61	112.60
1	1n	199	LYS	CA-C-N	8.01	131.02	120.28
1	1n	199	LYS	C-N-CA	8.01	131.02	120.28
1	e7	82	ARG	N-CA-C	8.01	120.09	111.36
1	ei	28	GLU	N-CA-C	8.01	119.64	111.07
1	eW	64	ALA	N-CA-C	8.01	120.01	111.28
1	V	61	GLY	O-C-N	-8.01	112.58	122.76
1	gn	63	GLN	N-CA-C	8.01	120.01	111.28
1	kx	195	ASN	CA-CB-CG	-8.01	104.59	112.60
1	25	36	VAL	N-CA-C	8.01	118.79	110.62
1	2U	168	PHE	O-C-N	-8.01	113.82	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5N	184	TRP	N-CA-C	8.01	120.01	111.28
1	5N	188	THR	O-C-N	-8.01	111.94	122.59
1	6S	84	HIS	CE1-NE2-CD2	-8.01	100.99	109.00
1	6W	21	ASN	CA-CB-CG	8.01	120.61	112.60
1	7c	40	PHE	O-C-N	-8.01	113.63	122.12
1	8H	52	LEU	N-CA-CB	8.01	121.63	110.01
1	co	32	PHE	CB-CA-C	-8.01	98.04	111.02
1	e5	97	ARG	NE-CZ-NH2	-8.01	111.99	119.20
1	eq	200	THR	N-CA-C	8.01	120.01	111.28
1	fy	72	THR	CA-C-N	8.01	131.83	120.53
1	fy	72	THR	C-N-CA	8.01	131.83	120.53
1	gp	143	ARG	CA-C-N	8.01	131.81	120.28
1	gp	143	ARG	C-N-CA	8.01	131.81	120.28
1	he	139	ASN	OD1-CG-ND2	-8.01	114.59	122.60
1	jZ	62	HIS	CB-CG-CD2	-8.01	120.79	131.20
1	kc	142	VAL	CA-C-O	8.01	129.60	121.27
1	kT	111	LEU	N-CA-C	8.01	121.02	111.33
1	ll	36	VAL	CA-C-N	8.01	126.74	120.33
1	ll	36	VAL	C-N-CA	8.01	126.74	120.33
1	2h	126	VAL	CA-C-N	8.01	128.83	119.94
1	2h	126	VAL	C-N-CA	8.01	128.83	119.94
1	4D	27	VAL	N-CA-C	8.01	118.11	110.42
1	4F	62	HIS	O-C-N	-8.01	113.25	122.86
1	5j	12	HIS	ND1-CE1-NE2	8.01	116.41	108.40
1	6G	189	LEU	N-CA-C	8.01	121.02	111.33
1	6I	166	ASP	CA-CB-CG	8.01	120.61	112.60
1	6T	62	HIS	N-CA-C	8.01	122.47	111.17
1	az	180	GLU	O-C-N	-8.01	113.76	122.09
1	71	129	ILE	N-CA-CB	8.01	119.03	110.62
1	7a	224	PRO	CA-C-N	8.01	129.00	120.03
1	7a	224	PRO	C-N-CA	8.01	129.00	120.03
1	83	120	HIS	CE1-NE2-CD2	-8.01	100.99	109.00
1	aQ	12	HIS	CA-CB-CG	-8.01	105.79	113.80
1	bl	37	ILE	N-CA-CB	8.01	115.55	110.50
1	ce	204	ALA	N-CA-C	8.01	119.64	111.07
1	dr	79	GLU	CA-C-N	8.01	131.01	120.28
1	dr	79	GLU	C-N-CA	8.01	131.01	120.28
1	dW	23	TRP	N-CA-C	8.01	120.72	111.11
1	eu	173	ARG	NE-CZ-NH1	8.01	129.51	121.50
1	f3	162	ARG	NE-CZ-NH2	-8.01	111.99	119.20
1	fq	33	SER	CA-C-N	8.01	128.76	119.47
1	fq	33	SER	C-N-CA	8.01	128.76	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	114	GLN	N-CA-C	8.01	120.09	111.36
1	fO	134	ILE	N-CA-C	8.01	118.11	110.42
1	g	18	ARG	CA-C-N	8.01	130.85	120.44
1	g	18	ARG	C-N-CA	8.01	130.85	120.44
1	O	92	GLU	O-C-N	-8.01	112.34	121.79
1	8	5	ASN	CA-CB-CG	-8.01	104.59	112.60
1	gI	34	PRO	N-CA-C	8.01	124.31	113.98
1	h0	124	ILE	N-CA-C	-8.01	101.74	108.63
1	hq	48	THR	N-CA-C	-8.01	99.91	110.40
1	io	27	VAL	N-CA-C	8.01	118.11	110.42
1	iO	139	ASN	O-C-N	-8.01	113.63	122.12
1	iU	173	ARG	NE-CZ-NH2	-8.01	111.99	119.20
1	jw	90	PRO	CA-C-N	8.01	131.28	120.63
1	jw	90	PRO	C-N-CA	8.01	131.28	120.63
1	kC	195	ASN	CA-CB-CG	8.01	120.61	112.60
1	5r	181	VAL	N-CA-C	8.01	118.79	110.62
1	7Z	99	PRO	CA-C-O	-8.01	111.83	122.08
1	g3	27	VAL	N-CA-CB	8.01	119.92	110.55
1	y	132	ARG	CA-C-N	8.01	131.01	120.28
1	if	141	ILE	N-CA-C	8.01	118.78	110.62
1	iE	198	CYS	N-CA-CB	8.01	121.62	110.01
1	kO	67	GLN	O-C-N	-8.01	113.63	122.12
1	2e	117	TRP	N-CA-C	8.01	119.64	111.07
1	2j	112	GLN	CA-C-N	8.01	131.01	120.28
1	2j	112	GLN	C-N-CA	8.01	131.01	120.28
1	2P	120	HIS	CE1-NE2-CD2	-8.01	100.99	109.00
1	3O	178	SER	N-CA-C	8.01	121.24	110.35
1	c0	64	ALA	N-CA-C	8.01	120.09	111.36
1	1B	140	LYS	CA-C-N	8.01	131.43	120.46
1	4B	37	ILE	O-C-N	-8.01	115.30	120.42
1	4S	173	ARG	N-CA-C	8.01	120.09	111.36
1	5P	148	THR	O-C-N	-8.01	113.67	123.04
1	bb	9	GLN	OE1-CD-NE2	-8.01	114.59	122.60
1	5h	176	GLN	CA-C-N	8.01	133.24	121.31
1	5h	176	GLN	C-N-CA	8.01	133.24	121.31
1	92	227	LYS	N-CA-C	8.01	119.70	110.97
1	9r	123	PRO	N-CA-CB	-8.01	96.20	103.25
1	dD	148	THR	O-C-N	-8.01	113.45	123.06
1	6W	228	ALA	N-CA-C	8.01	122.15	112.38
1	95	203	LYS	N-CA-C	8.01	119.64	111.07
1	9g	84	HIS	ND1-CE1-NE2	8.01	116.41	108.40
1	1B	140	LYS	C-N-CA	8.01	131.43	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	132	ARG	C-N-CA	8.01	131.01	120.28
1	bH	60	GLY	CA-C-N	8.01	128.47	120.31
1	bH	60	GLY	C-N-CA	8.01	128.47	120.31
1	bN	41	SER	CA-C-N	8.01	131.66	120.29
1	bN	41	SER	C-N-CA	8.01	131.66	120.29
1	ct	150	ILE	N-CA-C	8.01	122.22	111.17
1	dB	33	SER	O-C-N	-8.01	116.25	121.85
1	e9	81	ASP	CA-CB-CG	8.01	120.61	112.60
1	eh	165	VAL	O-C-N	8.01	129.63	121.87
1	fl	111	LEU	CA-C-N	8.01	131.01	120.28
1	fl	111	LEU	C-N-CA	8.01	131.01	120.28
1	fp	171	THR	CA-C-N	8.01	130.85	120.44
1	fp	171	THR	C-N-CA	8.01	130.85	120.44
1	g	14	ALA	N-CA-C	8.01	121.24	110.35
1	2	64	ALA	CA-C-N	8.01	130.85	120.44
1	j	19	THR	CA-C-O	8.01	128.94	120.70
1	o	205	LEU	N-CA-C	8.01	120.01	111.28
1	2	64	ALA	C-N-CA	8.01	130.85	120.44
1	gj	5	ASN	CB-CG-ND2	8.00	128.40	116.40
1	1Z	95	GLN	O-C-N	-8.00	113.92	122.96
1	kQ	144	MET	CA-C-O	-8.00	112.07	120.55
1	lq	113	GLU	N-CA-C	8.00	120.00	111.28
1	3c	156	GLY	CA-C-N	8.00	127.58	118.85
1	3c	156	GLY	C-N-CA	8.00	127.58	118.85
1	5g	113	GLU	CA-C-O	8.00	128.94	120.70
1	5r	62	HIS	CA-CB-CG	-8.00	105.80	113.80
1	6A	138	LEU	CA-C-N	8.00	131.35	120.38
1	6A	138	LEU	C-N-CA	8.00	131.35	120.38
1	8O	75	GLU	O-C-N	-8.00	113.64	122.12
1	4	191	VAL	N-CA-C	8.00	118.76	110.36
1	gN	159	GLU	N-CA-C	8.00	127.50	109.81
1	1G	62	HIS	CB-CG-CD2	-8.00	120.80	131.20
1	1J	12	HIS	CE1-NE2-CD2	-8.00	101.00	109.00
1	5s	168	PHE	CA-CB-CG	-8.00	105.80	113.80
1	7Z	159	GLU	CA-C-O	-8.00	113.40	119.32
1	1R	124	ILE	O-C-N	-8.00	113.56	120.92
1	1W	206	GLY	O-C-N	-8.00	113.77	121.77
1	jB	170	LYS	N-CA-C	8.00	120.08	111.36
1	jJ	82	ARG	N-CA-C	8.00	122.81	112.89
1	lv	92	GLU	N-CA-C	8.00	124.52	113.16
1	2H	82	ARG	N-CA-C	8.00	120.08	111.36
1	36	19	THR	N-CA-CB	8.00	122.00	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3e	21	ASN	OD1-CG-ND2	-8.00	114.60	122.60
1	3g	22	ALA	CA-C-N	8.00	130.84	120.44
1	3g	22	ALA	C-N-CA	8.00	130.84	120.44
1	3o	159	GLU	CB-CA-C	-8.00	103.24	110.44
1	9Y	33	SER	CB-CA-C	-8.00	99.03	109.92
1	bz	26	VAL	CA-C-N	8.00	130.65	120.56
1	bz	26	VAL	C-N-CA	8.00	130.65	120.56
1	e2	122	PRO	CA-C-N	8.00	128.06	119.90
1	1A	34	PRO	O-C-N	-8.00	111.83	122.64
1	5R	6	LEU	CA-C-N	8.00	137.35	123.03
1	5R	6	LEU	C-N-CA	8.00	137.35	123.03
1	65	200	THR	N-CA-C	8.00	120.00	111.28
1	6E	89	GLY	CA-C-N	8.00	128.00	119.76
1	6E	89	GLY	C-N-CA	8.00	128.00	119.76
1	6O	164	TYR	CA-C-O	-8.00	112.07	120.55
1	7N	230	VAL	N-CA-C	8.00	120.17	109.37
1	7T	14	ALA	N-CA-C	8.00	121.23	110.35
1	8z	219	GLN	N-CA-C	-8.00	103.54	113.38
1	9v	61	GLY	N-CA-C	8.00	125.03	112.31
1	bm	132	ARG	NH1-CZ-NH2	-8.00	108.90	119.30
1	bo	162	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	co	67	GLN	OE1-CD-NE2	-8.00	114.60	122.60
1	d3	23	TRP	CD2-CE2-CZ2	-8.00	114.40	122.40
1	dr	29	GLU	N-CA-C	8.00	119.63	111.07
1	dQ	69	LEU	CA-C-N	8.00	130.85	120.44
1	dQ	69	LEU	C-N-CA	8.00	130.85	120.44
1	e2	122	PRO	C-N-CA	8.00	128.06	119.90
1	1o	38	PRO	N-CA-CB	8.00	111.65	103.25
1	1q	148	THR	N-CA-C	8.00	120.91	110.43
1	eE	221	VAL	O-C-N	8.00	127.93	121.85
1	H	229	ARG	NE-CZ-NH2	-8.00	112.00	119.20
1	f1	193	ASN	N-CA-C	8.00	121.84	112.72
1	g9	88	ALA	CA-C-N	8.00	134.43	121.87
1	g9	88	ALA	C-N-CA	8.00	134.43	121.87
1	gg	144	MET	N-CA-C	8.00	121.01	111.33
1	gi	118	MET	CA-C-O	8.00	129.17	119.97
1	gS	174	ALA	CA-C-N	8.00	132.15	120.95
1	gS	174	ALA	C-N-CA	8.00	132.15	120.95
1	hb	36	VAL	CA-C-N	8.00	126.73	120.33
1	hb	36	VAL	C-N-CA	8.00	126.73	120.33
1	il	57	ASN	OD1-CG-ND2	-8.00	114.60	122.60
1	j6	126	VAL	N-CA-C	8.00	119.74	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k6	115	ILE	CA-C-N	8.00	128.82	119.94
1	k6	115	ILE	C-N-CA	8.00	128.82	119.94
1	kW	81	ASP	CA-CB-CG	-8.00	104.60	112.60
1	3T	15	ILE	N-CA-C	8.00	119.73	108.93
1	3U	38	PRO	CA-C-N	8.00	131.51	120.63
1	3U	38	PRO	C-N-CA	8.00	131.51	120.63
1	4e	12	HIS	CA-CB-CG	8.00	121.80	113.80
1	4O	191	VAL	N-CA-C	-8.00	102.28	111.00
1	5S	70	LYS	N-CA-C	8.00	120.08	111.36
1	6o	180	GLU	CA-C-O	8.00	129.03	120.55
1	6O	195	ASN	CA-CB-CG	8.00	120.60	112.60
1	7F	135	ILE	CA-C-O	8.00	129.13	120.57
1	8U	39	MET	CA-C-O	8.00	129.03	120.55
1	9m	97	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	a3	225	GLY	O-C-N	-8.00	114.28	122.60
1	bw	48	THR	CA-C-N	8.00	128.44	119.32
1	bw	48	THR	C-N-CA	8.00	128.44	119.32
1	ct	112	GLN	CA-C-O	-8.00	112.07	120.55
1	cG	37	ILE	N-CA-CB	8.00	116.69	110.45
1	d9	207	PRO	CB-CA-C	8.00	118.59	111.87
1	e6	132	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	eY	184	TRP	CA-C-N	8.00	131.00	120.28
1	eY	184	TRP	C-N-CA	8.00	131.00	120.28
1	R	213	GLU	O-C-N	-8.00	113.77	122.09
1	hX	100	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	i9	72	THR	CA-C-O	8.00	129.03	120.55
1	ja	128	GLU	N-CA-C	8.00	119.63	111.07
1	jE	162	ARG	NE-CZ-NH2	-8.00	112.00	119.20
1	jR	138	LEU	CA-C-N	8.00	131.00	120.28
1	jR	138	LEU	C-N-CA	8.00	131.00	120.28
1	l3	121	ASN	CA-C-O	-8.00	111.87	119.55
1	5N	18	ARG	NE-CZ-NH2	8.00	126.40	119.20
1	6A	27	VAL	CB-CA-C	8.00	123.26	112.22
1	7g	33	SER	CB-CA-C	-8.00	101.00	110.76
1	7j	191	VAL	N-CA-C	8.00	118.05	110.53
1	7J	195	ASN	CA-CB-CG	8.00	120.60	112.60
1	8n	124	ILE	CA-C-O	-8.00	113.17	119.25
1	8D	114	GLN	OE1-CD-NE2	-8.00	114.60	122.60
1	94	131	LYS	O-C-N	-8.00	113.64	122.12
1	9E	138	LEU	CA-C-N	8.00	131.80	120.28
1	9E	138	LEU	C-N-CA	8.00	131.80	120.28
1	Z	229	ARG	CA-C-N	8.00	131.47	120.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	229	ARG	C-N-CA	8.00	131.47	120.35
1	a9	191	VAL	CA-C-N	8.00	131.00	120.28
1	a9	191	VAL	C-N-CA	8.00	131.00	120.28
1	19	117	TRP	N-CA-C	8.00	120.00	111.28
1	ca	173	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	da	75	GLU	N-CA-C	8.00	120.00	111.28
1	ea	200	THR	N-CA-C	8.00	120.00	111.28
1	fH	163	ASP	N-CA-CB	-8.00	98.41	110.01
1	fT	176	GLN	N-CA-C	8.00	121.96	109.96
1	s	173	ARG	N-CA-C	8.00	120.08	111.36
1	G	37	ILE	O-C-N	8.00	125.54	120.42
1	hl	76	GLU	N-CA-C	8.00	120.08	111.36
1	1N	68	MET	CA-C-N	8.00	130.99	120.28
1	1N	68	MET	C-N-CA	8.00	130.99	120.28
1	iD	12	HIS	CG-CD2-NE2	8.00	115.20	107.20
1	jG	167	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	k5	10	MET	N-CA-C	8.00	121.22	110.35
1	ky	37	ILE	O-C-N	-8.00	115.30	120.42
1	24	227	LYS	N-CA-C	8.00	120.67	109.15
1	2T	28	GLU	N-CA-C	8.00	120.91	111.71
1	40	50	GLN	OE1-CD-NE2	-8.00	114.60	122.60
1	4p	168	PHE	CA-C-N	8.00	131.79	120.28
1	4p	168	PHE	C-N-CA	8.00	131.79	120.28
1	4D	96	MET	CA-C-N	8.00	132.83	120.75
1	4D	96	MET	C-N-CA	8.00	132.83	120.75
1	55	25	LYS	N-CA-C	8.00	120.71	111.11
1	5y	33	SER	N-CA-C	-8.00	100.95	108.07
1	6O	163	ASP	N-CA-C	8.00	119.63	111.07
1	86	119	THR	CA-CB-OG1	8.00	121.59	109.60
1	8m	139	ASN	OD1-CG-ND2	-8.00	114.60	122.60
1	96	184	TRP	CA-C-N	8.00	131.00	120.28
1	96	184	TRP	C-N-CA	8.00	131.00	120.28
1	9g	86	VAL	CA-C-O	8.00	130.78	120.78
1	9C	36	VAL	CA-C-N	8.00	126.73	120.33
1	9C	36	VAL	C-N-CA	8.00	126.73	120.33
1	aq	58	THR	N-CA-C	8.00	120.00	111.28
1	c6	82	ARG	NE-CZ-NH1	8.00	129.50	121.50
1	dl	56	LEU	CA-C-N	8.00	132.81	120.82
1	dl	56	LEU	C-N-CA	8.00	132.81	120.82
1	ep	197	ASP	CA-C-N	8.00	130.84	120.44
1	ep	197	ASP	C-N-CA	8.00	130.84	120.44
1	eE	37	ILE	CA-C-O	-8.00	109.23	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	214	MET	N-CA-C	8.00	120.00	111.28
1	gm	144	MET	CG-SD-CE	-8.00	83.31	100.90
1	1F	66	MET	N-CA-C	8.00	120.00	111.28
1	kV	89	GLY	CA-C-N	8.00	129.83	119.84
1	kV	89	GLY	C-N-CA	8.00	129.83	119.84
1	lx	87	HIS	CE1-NE2-CD2	-8.00	101.00	109.00
1	6n	118	MET	N-CA-C	8.00	120.07	111.36
1	6v	144	MET	N-CA-CB	8.00	121.99	110.16
1	cl	55	MET	O-C-N	-8.00	113.65	122.12
1	ct	81	ASP	O-C-N	-8.00	113.83	122.07
1	cX	12	HIS	ND1-CE1-NE2	8.00	116.39	108.40
1	1m	180	GLU	CA-C-O	8.00	129.02	120.55
1	es	67	GLN	N-CA-C	8.00	120.00	111.28
1	fc	165	VAL	N-CA-C	-8.00	102.65	110.72
1	fw	70	LYS	N-CA-C	8.00	120.00	111.28
1	1C	50	GLN	CA-C-N	7.99	130.99	120.28
1	1C	50	GLN	C-N-CA	7.99	130.99	120.28
1	gn	124	ILE	O-C-N	-7.99	111.99	121.10
1	h1	183	ASN	CA-CB-CG	-7.99	104.61	112.60
1	he	119	THR	N-CA-CB	7.99	122.32	110.33
1	hN	48	THR	O-C-N	-7.99	112.58	121.53
1	jk	15	ILE	N-CA-C	7.99	120.16	109.37
1	jH	214	MET	CA-C-N	7.99	131.64	120.29
1	jH	214	MET	C-N-CA	7.99	131.64	120.29
1	l0	178	SER	O-C-N	-7.99	113.43	122.86
1	l4	159	GLU	O-C-N	-7.99	113.75	121.18
1	l7	167	ARG	NE-CZ-NH2	-7.99	112.01	119.20
1	lH	82	ARG	CA-C-N	7.99	131.33	120.54
1	lH	82	ARG	C-N-CA	7.99	131.33	120.54
1	2u	13	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	2I	89	GLY	O-C-N	-7.99	113.78	121.77
1	3p	182	LYS	O-C-N	-7.99	113.65	122.12
1	4k	229	ARG	O-C-N	-7.99	113.04	122.87
1	5K	152	ASP	CA-CB-CG	-7.99	104.61	112.60
1	6f	140	LYS	N-CA-C	7.99	119.99	111.28
1	9e	179	GLN	N-CA-C	7.99	121.00	111.33
1	a2	195	ASN	N-CA-CB	7.99	121.78	110.11
1	bw	185	MET	CA-C-O	7.99	129.21	120.82
1	da	9	GLN	CA-C-O	7.99	128.26	119.15
1	ei	161	PHE	CA-CB-CG	-7.99	105.81	113.80
1	1u	132	ARG	CA-C-N	7.99	130.83	120.44
1	1u	132	ARG	C-N-CA	7.99	130.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fo	7	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	fw	162	ARG	NE-CZ-NH2	-7.99	112.01	119.20
1	fY	195	ASN	OD1-CG-ND2	-7.99	114.61	122.60
1	h1	208	ALA	N-CA-CB	-7.99	98.06	111.17
1	h8	166	ASP	CA-C-N	7.99	130.99	120.28
1	h8	166	ASP	C-N-CA	7.99	130.99	120.28
1	jf	68	MET	N-CA-C	7.99	119.62	111.07
1	jm	166	ASP	CA-CB-CG	7.99	120.59	112.60
1	jB	103	ASP	CA-CB-CG	-7.99	104.61	112.60
1	kA	227	LYS	CA-C-N	7.99	130.99	120.28
1	kA	227	LYS	C-N-CA	7.99	130.99	120.28
1	lQ	128	GLU	N-CA-CB	7.99	121.87	110.12
1	35	53	ASN	CA-CB-CG	-7.99	104.61	112.60
1	4k	166	ASP	N-CA-C	7.99	120.70	111.11
1	4D	104	ILE	N-CA-C	7.99	118.09	110.42
1	59	167	ARG	NH1-CZ-NH2	-7.99	108.91	119.30
1	5A	28	GLU	CA-C-N	7.99	131.79	120.28
1	5A	28	GLU	C-N-CA	7.99	131.79	120.28
1	6Q	220	GLY	CA-C-N	7.99	131.85	120.98
1	6Q	220	GLY	C-N-CA	7.99	131.85	120.98
1	7S	77	ALA	CA-C-N	7.99	130.99	120.28
1	7S	77	ALA	C-N-CA	7.99	130.99	120.28
1	83	70	LYS	N-CA-C	7.99	120.70	111.11
1	8e	144	MET	N-CA-C	7.99	121.09	111.82
1	dY	167	ARG	CA-C-N	7.99	130.83	120.44
1	dY	167	ARG	C-N-CA	7.99	130.83	120.44
1	eJ	151	LEU	N-CA-C	7.99	122.34	112.59
1	fR	32	PHE	CA-CB-CG	-7.99	105.81	113.80
1	d	220	GLY	CA-C-N	7.99	133.10	120.47
1	d	220	GLY	C-N-CA	7.99	133.10	120.47
1	3	92	GLU	CA-C-N	7.99	128.01	119.78
1	3	92	GLU	C-N-CA	7.99	128.01	119.78
1	gc	218	CYS	CA-C-N	7.99	132.14	120.95
1	gc	218	CYS	C-N-CA	7.99	132.14	120.95
1	1H	170	LYS	CA-C-O	7.99	129.45	120.90
1	i8	37	ILE	O-C-N	-7.99	115.31	120.42
1	iQ	146	SER	CA-C-O	-7.99	109.21	120.16
1	iW	47	ALA	N-CA-C	7.99	121.86	109.96
1	1T	48	THR	CA-C-N	7.99	128.43	119.32
1	1T	48	THR	C-N-CA	7.99	128.43	119.32
1	kG	67	GLN	CA-C-O	7.99	129.13	120.10
1	3s	69	LEU	CA-C-N	7.99	131.64	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3s	69	LEU	C-N-CA	7.99	131.64	120.29
1	3A	12	HIS	CB-CG-CD2	-7.99	120.81	131.20
1	3Q	135	ILE	O-C-N	-7.99	114.12	121.87
1	4u	77	ALA	N-CA-C	7.99	119.99	111.28
1	6o	116	GLY	N-CA-C	7.99	122.32	112.73
1	78	197	ASP	CA-CB-CG	7.99	120.59	112.60
1	7m	31	ALA	N-CA-C	7.99	120.46	108.31
1	7o	103	ASP	CA-C-N	7.99	131.41	120.46
1	7o	103	ASP	C-N-CA	7.99	131.41	120.46
1	8d	110	THR	CA-C-N	7.99	131.78	120.28
1	8d	110	THR	C-N-CA	7.99	131.78	120.28
1	8e	118	MET	N-CA-C	7.99	119.99	111.28
1	9j	180	GLU	N-CA-C	7.99	119.99	111.28
1	ar	24	VAL	CA-C-N	7.99	130.83	120.44
1	ar	24	VAL	C-N-CA	7.99	130.83	120.44
1	aC	68	MET	CA-C-N	7.99	131.33	120.38
1	aC	68	MET	C-N-CA	7.99	131.33	120.38
1	aP	202	LEU	CA-C-O	7.99	129.21	120.82
1	bd	81	ASP	CA-CB-CG	7.99	120.59	112.60
1	cm	143	ARG	N-CA-C	7.99	119.62	111.07
1	cA	186	THR	N-CA-CB	7.99	122.67	110.28
1	cO	36	VAL	CA-C-N	7.99	125.27	120.24
1	cO	36	VAL	C-N-CA	7.99	125.27	120.24
1	f2	173	ARG	CA-C-N	7.99	130.99	120.28
1	f2	173	ARG	C-N-CA	7.99	130.99	120.28
1	fe	94	GLY	CA-C-O	7.99	127.97	118.86
1	ff	40	PHE	CA-CB-CG	-7.99	105.81	113.80
1	fK	52	LEU	CA-C-O	7.99	129.21	120.82
1	O	85	PRO	N-CA-CB	-7.99	96.22	103.25
1	gX	79	GLU	N-CA-C	7.99	120.90	111.71
1	iJ	111	LEU	CB-CA-C	7.99	123.59	110.81
1	jO	21	ASN	OD1-CG-ND2	-7.99	114.61	122.60
1	kP	53	ASN	O-C-N	-7.99	113.65	122.12
1	kX	142	VAL	CB-CA-C	-7.99	101.57	112.04
1	2b	26	VAL	CA-C-O	-7.99	112.70	121.17
1	2Q	33	SER	O-C-N	-7.99	114.44	121.71
1	3H	206	GLY	O-C-N	7.99	129.76	121.77
1	4f	68	MET	CA-C-N	7.99	131.31	120.44
1	4f	68	MET	C-N-CA	7.99	131.31	120.44
1	4i	180	GLU	O-C-N	-7.99	113.65	122.12
1	4o	82	ARG	NE-CZ-NH1	7.99	129.49	121.50
1	4w	62	HIS	ND1-CG-CD2	7.99	114.09	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	179	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	5T	206	GLY	CA-C-N	7.99	128.04	119.89
1	5T	206	GLY	C-N-CA	7.99	128.04	119.89
1	7f	186	THR	N-CA-C	7.99	122.13	112.38
1	8i	73	ILE	N-CA-C	7.99	118.09	110.42
1	9P	171	THR	O-C-N	-7.99	113.65	122.12
1	9Y	111	LEU	N-CA-C	7.99	121.00	111.33
1	am	132	ARG	NE-CZ-NH1	7.99	129.49	121.50
1	bC	62	HIS	CA-C-N	7.99	131.63	120.29
1	bC	62	HIS	C-N-CA	7.99	131.63	120.29
1	cl	115	ILE	CA-C-N	7.99	128.65	119.94
1	cl	115	ILE	C-N-CA	7.99	128.65	119.94
1	1h	56	LEU	O-C-N	-7.99	113.65	122.12
1	9	206	GLY	CA-C-N	7.99	129.82	119.84
1	9	206	GLY	C-N-CA	7.99	129.82	119.84
1	g9	148	THR	N-CA-C	7.99	121.53	110.35
1	gf	143	ARG	NE-CZ-NH2	-7.99	112.01	119.20
1	gg	50	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	gC	56	LEU	N-CA-CB	7.99	122.16	110.26
1	gH	82	ARG	CA-C-N	7.99	131.63	120.29
1	gH	82	ARG	C-N-CA	7.99	131.63	120.29
1	hj	201	ILE	O-C-N	-7.99	114.08	121.91
1	iT	5	ASN	CB-CA-C	7.99	121.82	109.84
1	kM	163	ASP	CA-CB-CG	7.99	120.59	112.60
1	4e	42	ALA	CA-C-O	7.99	129.21	120.82
1	4Z	123	PRO	CB-CA-C	7.99	121.78	111.64
1	74	53	ASN	CA-CB-CG	-7.99	104.61	112.60
1	7T	159	GLU	CA-C-N	7.99	128.47	119.92
1	7T	159	GLU	C-N-CA	7.99	128.47	119.92
1	9l	1	PRO	CA-N-CD	-7.99	100.82	112.00
1	am	115	ILE	CA-C-N	7.99	128.65	119.94
1	am	115	ILE	C-N-CA	7.99	128.65	119.94
1	h3	139	ASN	CA-CB-CG	-7.99	104.61	112.60
1	jP	156	GLY	O-C-N	-7.99	113.78	121.77
1	kh	79	GLU	CA-C-N	7.99	130.82	120.44
1	kh	79	GLU	C-N-CA	7.99	130.82	120.44
1	26	70	LYS	N-CA-C	7.99	119.98	111.28
1	lN	158	LYS	N-CA-C	7.99	121.51	111.69
1	2q	130	TYR	CA-C-N	7.99	130.98	120.28
1	2q	130	TYR	C-N-CA	7.99	130.98	120.28
1	41	138	LEU	O-C-N	-7.99	113.85	122.07
1	4u	65	ALA	O-C-N	-7.99	113.66	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5a	7	GLN	N-CA-C	-7.99	103.56	113.38
1	5y	84	HIS	CE1-NE2-CD2	-7.99	101.01	109.00
1	67	36	VAL	CA-C-N	7.99	128.10	120.43
1	67	36	VAL	C-N-CA	7.99	128.10	120.43
1	7w	191	VAL	CA-C-O	7.99	129.09	120.47
1	8t	55	MET	CA-C-O	7.99	129.01	120.55
1	91	161	PHE	CA-CB-CG	-7.99	105.81	113.80
1	9I	212	GLU	CA-C-N	7.99	130.98	120.28
1	9I	212	GLU	C-N-CA	7.99	130.98	120.28
1	9T	193	ASN	CA-CB-CG	7.99	120.58	112.60
1	a1	139	ASN	N-CA-CB	-7.99	98.34	110.16
1	as	213	GLU	N-CA-C	7.99	119.98	111.28
1	dP	126	VAL	N-CA-C	7.99	118.76	110.62
1	e1	27	VAL	N-CA-C	7.99	118.09	110.42
1	ej	59	VAL	O-C-N	-7.99	113.89	122.83
1	eJ	225	GLY	O-C-N	-7.99	117.80	123.95
1	eT	163	ASP	CA-C-N	7.99	131.19	120.65
1	eT	163	ASP	C-N-CA	7.99	131.19	120.65
1	ff	7	GLN	OE1-CD-NE2	-7.99	114.61	122.60
1	fJ	186	THR	N-CA-C	7.99	119.98	111.28
1	fV	84	HIS	ND1-CE1-NE2	7.99	116.39	108.40
1	f	28	GLU	N-CA-C	7.99	119.98	111.28
1	gP	36	VAL	CA-C-N	7.98	126.72	120.33
1	gP	36	VAL	C-N-CA	7.98	126.72	120.33
1	iz	163	ASP	CA-CB-CG	7.98	120.58	112.60
1	3l	143	ARG	NE-CZ-NH1	7.98	129.48	121.50
1	bi	147	PRO	CB-CA-C	7.98	121.70	111.56
1	eV	14	ALA	O-C-N	-7.98	113.75	122.85
1	fi	41	SER	N-CA-CB	7.98	121.59	110.01
1	1y	120	HIS	CE1-NE2-CD2	-7.98	101.02	109.00
1	f	87	HIS	ND1-CE1-NE2	7.98	116.38	108.40
1	F	146	SER	N-CA-C	7.98	118.78	109.60
1	gb	152	ASP	N-CA-C	7.98	119.98	111.28
1	hA	196	PRO	CA-C-N	7.98	130.82	120.44
1	hA	196	PRO	C-N-CA	7.98	130.82	120.44
1	hC	120	HIS	CE1-NE2-CD2	-7.98	101.02	109.00
1	jz	137	GLY	CA-C-N	7.98	130.98	120.28
1	jz	137	GLY	C-N-CA	7.98	130.98	120.28
1	jU	154	ARG	O-C-N	-7.98	113.51	123.17
1	kq	226	HIS	CA-CB-CG	7.98	121.78	113.80
1	kL	74	ASN	N-CA-C	7.98	119.98	111.28
1	lm	184	TRP	N-CA-C	7.98	119.61	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ly	130	TYR	O-C-N	-7.98	113.66	122.12
1	32	177	ALA	O-C-N	-7.98	113.15	122.89
1	6H	72	THR	N-CA-C	7.98	119.98	111.28
1	6P	198	CYS	CA-C-N	7.98	130.97	120.28
1	6P	198	CYS	C-N-CA	7.98	130.97	120.28
1	7u	81	ASP	CB-CA-C	7.98	124.04	110.79
1	7F	115	ILE	N-CA-C	7.98	118.76	110.62
1	9e	66	MET	N-CA-C	7.98	119.98	111.28
1	9B	217	ALA	CA-C-O	7.98	128.92	120.70
1	9D	8	GLY	N-CA-C	7.98	127.22	112.77
1	ac	216	THR	CA-C-O	7.98	128.94	119.60
1	as	184	TRP	N-CA-C	7.98	121.08	111.82
1	aL	61	GLY	N-CA-C	7.98	121.11	112.33
1	bL	102	SER	N-CA-C	7.98	120.89	111.71
1	bT	139	ASN	N-CA-C	7.98	119.98	111.28
1	bW	132	ARG	N-CA-C	7.98	120.99	111.33
1	c8	21	ASN	CA-CB-CG	-7.98	104.62	112.60
1	e4	128	GLU	CA-C-N	7.98	130.90	120.60
1	e4	128	GLU	C-N-CA	7.98	130.90	120.60
1	eJ	84	HIS	CB-CG-ND1	7.98	134.67	122.70
1	fu	40	PHE	CA-CB-CG	-7.98	105.82	113.80
1	fx	146	SER	O-C-N	-7.98	114.20	121.30
1	g7	229	ARG	N-CA-C	7.98	121.75	110.50
1	I	132	ARG	N-CA-C	7.98	119.61	111.07
1	J	122	PRO	CA-C-N	7.98	127.98	119.76
1	J	122	PRO	C-N-CA	7.98	127.98	119.76
1	5	124	ILE	CA-C-O	7.98	130.65	119.95
1	gd	124	ILE	CB-CA-C	-7.98	101.83	110.37
1	gn	73	ILE	O-C-N	-7.98	113.61	121.83
1	gG	230	VAL	N-CA-CB	7.98	120.58	110.05
1	hc	149	SER	N-CA-C	7.98	121.20	110.35
1	ho	18	ARG	N-CA-C	-7.98	103.33	113.23
1	ig	193	ASN	CA-C-N	7.98	132.80	120.75
1	ig	193	ASN	C-N-CA	7.98	132.80	120.75
1	1R	153	ILE	CA-C-N	7.98	134.14	122.41
1	1R	153	ILE	C-N-CA	7.98	134.14	122.41
1	iJ	84	HIS	O-C-N	-7.98	112.37	120.83
1	j5	95	GLN	N-CA-CB	7.98	121.74	109.85
1	ky	76	GLU	N-CA-C	7.98	119.98	111.28
1	kZ	32	PHE	CA-CB-CG	-7.98	105.82	113.80
1	lg	32	PHE	CA-C-O	7.98	131.55	122.37
1	2w	45	GLU	N-CA-C	7.98	121.97	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	223	GLY	CA-C-N	7.98	129.82	119.84
1	3n	223	GLY	C-N-CA	7.98	129.82	119.84
1	3R	84	HIS	O-C-N	-7.98	113.90	121.72
1	44	83	LEU	N-CA-C	7.98	120.06	111.36
1	4Y	111	LEU	O-C-N	-7.98	113.79	122.09
1	6G	147	PRO	N-CA-C	7.98	122.98	114.68
1	6K	130	TYR	CA-C-N	7.98	130.97	120.28
1	6K	130	TYR	C-N-CA	7.98	130.97	120.28
1	7B	42	ALA	N-CA-C	7.98	119.98	111.28
1	90	193	ASN	CA-CB-CG	-7.98	104.62	112.60
1	a4	89	GLY	N-CA-C	7.98	128.62	112.34
1	bc	212	GLU	O-C-N	-7.98	113.79	122.09
1	bF	5	ASN	N-CA-C	7.98	120.69	111.11
1	1c	56	LEU	CA-C-O	7.98	129.10	120.24
1	du	218	CYS	CA-C-O	7.98	129.41	119.59
1	dG	106	GLY	N-CA-C	-7.98	104.31	115.32
1	eW	195	ASN	CA-C-N	7.98	129.81	119.84
1	eW	195	ASN	C-N-CA	7.98	129.81	119.84
1	f1	213	GLU	O-C-N	-7.98	113.66	122.12
1	j	61	GLY	CA-C-O	7.98	128.24	119.06
1	gz	67	GLN	O-C-N	-7.98	112.88	122.22
1	l1	158	LYS	O-C-N	-7.98	112.10	122.39
1	2c	3	VAL	CB-CA-C	-7.98	103.09	110.91
1	3r	120	HIS	CE1-NE2-CD2	-7.98	101.02	109.00
1	5A	133	TRP	CA-C-N	7.98	130.77	120.56
1	5A	133	TRP	C-N-CA	7.98	130.77	120.56
1	6O	107	THR	N-CA-C	7.98	119.98	111.28
1	bc	9	GLN	O-C-N	-7.98	112.14	123.07
1	ck	31	ALA	O-C-N	-7.98	111.98	122.59
1	cQ	84	HIS	CA-C-O	-7.98	112.59	120.97
1	in	11	VAL	O-C-N	-7.98	114.64	123.26
1	ji	73	ILE	N-CA-C	7.98	118.76	110.62
1	jt	177	ALA	CA-C-N	7.98	132.15	120.90
1	jt	177	ALA	C-N-CA	7.98	132.15	120.90
1	jU	203	LYS	N-CA-CB	7.98	121.85	110.12
1	kn	192	GLN	N-CA-CB	7.98	121.85	110.12
1	2p	126	VAL	N-CA-C	7.98	119.71	110.62
1	2A	12	HIS	CA-CB-CG	-7.98	105.82	113.80
1	3b	87	HIS	ND1-CE1-NE2	7.98	116.38	108.40
1	3K	80	TRP	CA-C-N	7.98	131.29	120.44
1	3K	80	TRP	C-N-CA	7.98	131.29	120.44
1	6w	224	PRO	CA-C-N	7.98	132.34	121.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6w	224	PRO	C-N-CA	7.98	132.34	121.01
1	6S	27	VAL	CB-CA-C	-7.98	101.76	111.97
1	9k	140	LYS	N-CA-C	7.98	119.61	111.07
1	aZ	18	ARG	CB-CA-C	-7.98	97.55	110.79
1	b4	195	ASN	CA-CB-CG	7.98	120.58	112.60
1	b9	195	ASN	CB-CA-C	7.98	122.12	109.52
1	bg	173	ARG	N-CA-C	7.98	121.07	111.82
1	bX	180	GLU	CA-C-N	7.98	130.61	120.56
1	bX	180	GLU	C-N-CA	7.98	130.61	120.56
1	dW	65	ALA	CA-C-N	7.98	130.81	120.44
1	dW	65	ALA	C-N-CA	7.98	130.81	120.44
1	K	42	ALA	N-CA-C	7.98	119.98	111.28
1	iQ	100	ARG	NH1-CZ-NH2	-7.98	108.93	119.30
1	jp	37	ILE	O-C-N	-7.98	115.32	120.42
1	3a	212	GLU	N-CA-C	7.98	119.97	111.28
1	3r	63	GLN	N-CA-C	7.98	120.98	111.33
1	3r	131	LYS	CA-C-O	-7.98	112.09	120.55
1	4X	134	ILE	N-CA-CB	7.98	119.88	110.55
1	6x	143	ARG	O-C-N	-7.98	113.06	122.15
1	7o	26	VAL	N-CA-CB	7.98	119.88	110.55
1	c5	104	ILE	O-C-N	-7.98	114.13	121.87
1	c7	113	GLU	CA-C-O	7.98	129.00	120.55
1	cA	12	HIS	ND1-CE1-NE2	7.98	116.38	108.40
1	dI	205	LEU	CA-C-N	7.98	134.39	121.87
1	dI	205	LEU	C-N-CA	7.98	134.39	121.87
1	H	192	GLN	N-CA-C	7.98	120.98	111.33
1	gm	204	ALA	CA-C-N	7.97	130.81	120.44
1	gm	204	ALA	C-N-CA	7.97	130.81	120.44
1	he	98	GLU	CA-C-N	7.97	128.59	120.14
1	he	98	GLU	C-N-CA	7.97	128.59	120.14
1	hJ	168	PHE	CA-CB-CG	7.97	121.77	113.80
1	j9	84	HIS	ND1-CE1-NE2	7.97	116.37	108.40
1	jE	121	ASN	CA-CB-CG	7.97	120.57	112.60
1	2f	159	GLU	N-CA-C	-7.97	98.28	110.32
1	43	162	ARG	CA-C-N	7.97	130.97	120.28
1	43	162	ARG	C-N-CA	7.97	130.97	120.28
1	4r	41	SER	CA-C-N	7.97	130.97	120.28
1	4r	41	SER	C-N-CA	7.97	130.97	120.28
1	5J	11	VAL	O-C-N	-7.97	114.82	123.03
1	8r	101	GLY	CA-C-N	7.97	130.81	120.44
1	8r	101	GLY	C-N-CA	7.97	130.81	120.44
1	9t	69	LEU	CA-C-N	7.97	131.88	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	69	LEU	C-N-CA	7.97	131.88	120.79
1	9x	135	ILE	O-C-N	-7.97	114.09	121.91
1	9R	53	ASN	CA-CB-CG	-7.97	104.62	112.60
1	b0	144	MET	N-CA-C	7.97	119.75	111.14
1	18	214	MET	CA-C-N	7.97	131.76	120.28
1	18	214	MET	C-N-CA	7.97	131.76	120.28
1	bE	24	VAL	O-C-N	-7.97	114.09	121.91
1	cd	84	HIS	O-C-N	-7.97	111.51	121.64
1	eq	167	ARG	NE-CZ-NH1	7.97	129.47	121.50
1	fy	154	ARG	NE-CZ-NH1	7.97	129.47	121.50
1	g5	124	ILE	O-C-N	-7.97	115.89	121.55
1	b	161	PHE	CA-C-N	7.97	130.81	120.44
1	b	161	PHE	C-N-CA	7.97	130.81	120.44
1	r	79	GLU	N-CA-C	7.97	119.97	111.28
1	gy	198	CYS	CA-C-N	7.97	131.76	120.28
1	gy	198	CYS	C-N-CA	7.97	131.76	120.28
1	hx	193	ASN	CA-C-O	7.97	129.20	119.31
1	ic	166	ASP	CA-CB-CG	7.97	120.57	112.60
1	ir	57	ASN	N-CA-C	7.97	119.97	111.28
1	ix	201	ILE	N-CA-C	7.97	118.07	110.42
1	jE	182	LYS	O-C-N	-7.97	113.67	122.12
1	k8	85	PRO	CA-C-O	-7.97	112.35	121.36
1	lq	47	ALA	N-CA-C	7.97	121.79	110.23
1	ls	109	SER	O-C-N	-7.97	113.59	122.84
1	2d	161	PHE	CA-CB-CG	7.97	121.77	113.80
1	2l	133	TRP	CA-C-N	7.97	130.60	120.56
1	2l	133	TRP	C-N-CA	7.97	130.60	120.56
1	2T	62	HIS	ND1-CG-CD2	7.97	114.07	106.10
1	35	191	VAL	CB-CA-C	-7.97	101.56	112.24
1	3v	76	GLU	CA-C-N	7.97	131.30	120.54
1	3v	76	GLU	C-N-CA	7.97	131.30	120.54
1	8p	70	LYS	N-CA-C	7.97	119.97	111.28
1	ba	59	VAL	O-C-N	-7.97	114.13	122.66
1	bR	156	GLY	O-C-N	-7.97	113.80	121.77
1	cB	53	ASN	CA-CB-CG	-7.97	104.63	112.60
1	1p	197	ASP	N-CA-C	7.97	119.97	111.28
1	et	37	ILE	N-CA-CB	7.97	115.52	110.50
1	f	132	ARG	CA-C-N	7.97	130.80	120.44
1	f	132	ARG	C-N-CA	7.97	130.80	120.44
1	T	184	TRP	CB-CG-CD1	-7.97	114.94	126.90
1	gj	124	ILE	CB-CA-C	7.97	120.02	110.85
1	hy	172	LEU	CA-C-O	7.97	129.14	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iw	67	GLN	CA-C-N	7.97	130.96	120.28
1	iw	67	GLN	C-N-CA	7.97	130.96	120.28
1	iR	58	THR	CA-C-O	7.97	129.19	119.38
1	kM	3	VAL	N-CA-C	7.97	119.36	107.80
1	kU	12	HIS	CA-CB-CG	-7.97	105.83	113.80
1	47	53	ASN	CB-CG-ND2	7.97	128.36	116.40
1	68	134	ILE	N-CA-C	7.97	118.07	110.42
1	9c	82	ARG	NE-CZ-NH2	-7.97	112.03	119.20
1	cs	25	LYS	N-CA-C	7.97	119.97	111.28
1	1h	219	GLN	O-C-N	-7.97	112.59	122.24
1	d7	114	GLN	N-CA-C	7.97	119.60	111.07
1	er	52	LEU	CA-C-N	7.97	131.30	120.54
1	er	52	LEU	C-N-CA	7.97	131.30	120.54
1	g	137	GLY	CA-C-N	7.97	132.02	120.38
1	g	137	GLY	C-N-CA	7.97	132.02	120.38
1	gf	46	GLY	CA-C-N	7.97	132.03	120.71
1	gf	46	GLY	C-N-CA	7.97	132.03	120.71
1	gE	89	GLY	CA-C-N	7.97	129.22	119.98
1	gE	89	GLY	C-N-CA	7.97	129.22	119.98
1	gI	141	ILE	CA-C-N	7.97	130.88	120.60
1	gI	141	ILE	C-N-CA	7.97	130.88	120.60
1	il	200	THR	N-CA-CB	7.97	121.81	109.94
1	iK	69	LEU	O-C-N	-7.97	113.86	122.07
1	jh	120	HIS	CG-CD2-NE2	7.97	115.17	107.20
1	jl	22	ALA	CA-C-N	7.97	130.80	120.44
1	jl	22	ALA	C-N-CA	7.97	130.80	120.44
1	l0	165	VAL	O-C-N	-7.97	114.14	121.87
1	l6	219	GLN	N-CA-C	7.97	119.60	111.07
1	lo	106	GLY	CA-C-N	7.97	131.30	120.38
1	lo	106	GLY	C-N-CA	7.97	131.30	120.38
1	43	5	ASN	CA-CB-CG	7.97	120.57	112.60
1	4I	165	VAL	N-CA-C	7.97	118.07	110.42
1	4V	100	ARG	CA-C-N	7.97	128.83	119.98
1	4V	100	ARG	C-N-CA	7.97	128.83	119.98
1	5n	159	GLU	CA-C-N	7.97	128.02	119.89
1	5n	159	GLU	C-N-CA	7.97	128.02	119.89
1	69	11	VAL	CB-CA-C	-7.97	100.16	111.40
1	6j	163	ASP	N-CA-C	7.97	119.97	111.28
1	6K	166	ASP	CA-C-N	7.97	130.80	120.44
1	6K	166	ASP	C-N-CA	7.97	130.80	120.44
1	75	158	LYS	N-CA-C	7.97	119.97	111.28
1	7a	194	ALA	CA-C-N	7.97	131.47	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7a	194	ALA	C-N-CA	7.97	131.47	120.39
1	8N	98	GLU	N-CA-CB	7.97	121.05	110.29
1	9c	115	ILE	CA-C-N	7.97	129.00	119.99
1	9c	115	ILE	C-N-CA	7.97	129.00	119.99
1	Z	62	HIS	ND1-CG-CD2	7.97	114.07	106.10
1	bH	116	GLY	O-C-N	-7.97	114.54	122.19
1	c2	173	ARG	CA-C-O	7.97	128.66	119.18
1	dG	171	THR	N-CA-CB	7.97	122.01	110.06
1	e6	124	ILE	CB-CA-C	7.97	119.24	110.71
1	em	230	VAL	N-CA-CB	7.97	119.22	110.53
1	f9	130	TYR	CA-C-N	7.97	131.60	120.29
1	f9	130	TYR	C-N-CA	7.97	131.60	120.29
1	fy	103	ASP	CA-CB-CG	-7.97	104.63	112.60
1	fH	162	ARG	N-CA-C	7.97	119.97	111.28
1	fL	84	HIS	CA-C-O	-7.97	113.06	119.99
1	fT	67	GLN	OE1-CD-NE2	-7.97	114.63	122.60
1	r	226	HIS	ND1-CE1-NE2	7.97	116.37	108.40
1	M	222	GLY	CA-C-O	7.97	128.82	122.52
1	kG	26	VAL	N-CA-C	7.97	118.07	110.42
1	kW	159	GLU	CA-C-N	7.97	128.44	119.83
1	kW	159	GLU	C-N-CA	7.97	128.44	119.83
1	lq	190	LEU	CA-C-N	7.97	130.60	120.56
1	lq	190	LEU	C-N-CA	7.97	130.60	120.56
1	2X	156	GLY	CA-C-N	7.97	127.64	119.19
1	2X	156	GLY	C-N-CA	7.97	127.64	119.19
1	4y	12	HIS	CB-CG-CD2	-7.97	120.84	131.20
1	87	209	ALA	CA-C-O	7.97	130.63	121.87
1	9P	153	ILE	N-CA-CB	-7.97	101.97	110.82
1	aj	170	LYS	CA-C-O	7.97	129.43	120.90
1	aw	75	GLU	N-CA-C	7.97	119.60	111.07
1	ef	168	PHE	CA-CB-CG	7.97	121.77	113.80
1	eJ	36	VAL	N-CA-C	7.97	118.75	110.62
1	x	226	HIS	CA-CB-CG	-7.97	105.83	113.80
1	iH	135	ILE	CA-C-O	7.97	129.61	121.17
1	jb	185	MET	CA-C-O	7.97	128.99	120.55
1	1W	132	ARG	NH1-CZ-NH2	-7.97	108.94	119.30
1	jx	13	GLN	OE1-CD-NE2	-7.97	114.63	122.60
1	jX	186	THR	O-C-N	7.97	130.38	122.09
1	jY	77	ALA	N-CA-C	7.97	120.67	111.11
1	kN	198	CYS	N-CA-C	7.97	119.96	111.28
1	kX	42	ALA	N-CA-C	7.97	119.59	111.07
1	l9	169	TYR	N-CA-C	7.97	120.04	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2G	71	GLU	CA-C-N	7.97	130.80	120.44
1	2G	71	GLU	C-N-CA	7.97	130.80	120.44
1	5b	70	LYS	CA-C-N	7.97	130.80	120.44
1	5b	70	LYS	C-N-CA	7.97	130.80	120.44
1	5i	115	ILE	CA-C-N	7.97	128.78	119.94
1	5i	115	ILE	C-N-CA	7.97	128.78	119.94
1	5s	155	GLN	OE1-CD-NE2	-7.97	114.63	122.60
1	61	216	THR	N-CA-CB	7.97	122.63	110.28
1	7Y	33	SER	CA-C-N	7.97	128.71	119.47
1	7Y	33	SER	C-N-CA	7.97	128.71	119.47
1	aj	203	LYS	CA-C-O	7.97	128.99	120.55
1	an	12	HIS	CE1-NE2-CD2	-7.97	101.03	109.00
1	cW	99	PRO	O-C-N	-7.97	115.20	122.93
1	dt	23	TRP	CA-CB-CG	7.97	128.74	113.60
1	dW	158	LYS	CA-C-O	7.97	127.61	118.77
1	ee	173	ARG	NH1-CZ-NH2	-7.97	108.94	119.30
1	eN	155	GLN	O-C-N	-7.97	114.27	123.27
1	f0	202	LEU	O-C-N	-7.97	113.68	122.12
1	gu	229	ARG	N-CA-C	7.96	120.59	110.24
1	hi	86	VAL	N-CA-C	7.96	119.68	108.93
1	hG	129	ILE	O-C-N	-7.96	114.11	121.91
1	hZ	152	ASP	CA-CB-CG	-7.96	104.64	112.60
1	jx	155	GLN	OE1-CD-NE2	-7.96	114.64	122.60
1	k6	200	THR	CA-C-N	7.96	130.59	120.56
1	k6	200	THR	C-N-CA	7.96	130.59	120.56
1	l4	35	GLU	N-CA-C	7.96	122.84	113.20
1	2c	26	VAL	N-CA-C	7.96	122.16	111.17
1	2t	223	GLY	CA-C-N	7.96	129.80	119.84
1	2t	223	GLY	C-N-CA	7.96	129.80	119.84
1	2O	91	ILE	CA-C-N	7.96	132.79	120.60
1	2O	91	ILE	C-N-CA	7.96	132.79	120.60
1	2T	160	PRO	CA-C-O	-7.96	115.25	121.38
1	4o	63	GLN	O-C-N	-7.96	112.90	122.22
1	57	162	ARG	NH1-CZ-NH2	-7.96	108.95	119.30
1	5x	132	ARG	N-CA-C	7.96	119.59	111.07
1	6o	15	ILE	N-CA-CB	7.96	119.21	110.53
1	70	16	SER	O-C-N	-7.96	113.10	121.30
1	7d	12	HIS	CE1-NE2-CD2	-7.96	101.03	109.00
1	8i	123	PRO	CA-C-N	7.96	130.26	123.33
1	8i	123	PRO	C-N-CA	7.96	130.26	123.33
1	8H	227	LYS	N-CA-C	-7.96	97.21	109.24
1	af	183	ASN	CA-C-N	7.96	130.95	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	af	183	ASN	C-N-CA	7.96	130.95	120.28
1	ai	228	ALA	N-CA-C	7.96	119.96	111.28
1	bH	163	ASP	CA-C-O	7.96	128.99	120.55
1	bQ	195	ASN	CA-CB-CG	7.96	120.56	112.60
1	ce	93	PRO	CA-C-O	-7.96	112.71	121.23
1	dz	161	PHE	CA-C-N	7.96	131.29	120.54
1	dz	161	PHE	C-N-CA	7.96	131.29	120.54
1	fk	97	ARG	CA-C-O	7.96	130.24	121.56
1	n	180	GLU	CA-C-N	7.96	130.60	120.56
1	n	180	GLU	C-N-CA	7.96	130.60	120.56
1	p	153	ILE	O-C-N	-7.96	113.50	122.66
1	hA	162	ARG	NE-CZ-NH1	7.96	129.46	121.50
1	i7	92	GLU	O-C-N	-7.96	113.22	120.71
1	iv	141	ILE	CA-C-N	7.96	130.59	120.56
1	iv	141	ILE	C-N-CA	7.96	130.59	120.56
1	l0	190	LEU	N-CA-C	7.96	120.97	111.33
1	lH	41	SER	CA-C-N	7.96	130.79	120.44
1	lH	41	SER	C-N-CA	7.96	130.79	120.44
1	4l	18	ARG	NE-CZ-NH1	7.96	129.46	121.50
1	6m	230	VAL	N-CA-C	7.96	119.37	107.51
1	6B	71	GLU	O-C-N	-7.96	113.68	122.12
1	6J	188	THR	N-CA-CB	7.96	121.56	110.01
1	7h	112	GLN	N-CA-C	7.96	120.97	111.33
1	Y	22	ALA	CA-C-O	-7.96	112.46	120.82
1	19	54	THR	O-C-N	-7.96	112.48	122.27
1	d2	187	GLU	N-CA-C	7.96	119.59	111.07
1	d6	126	VAL	N-CA-C	7.96	118.74	110.62
1	d9	120	HIS	CA-CB-CG	7.96	121.76	113.80
1	dt	131	LYS	CA-C-N	7.96	130.79	120.44
1	dt	131	LYS	C-N-CA	7.96	130.79	120.44
1	ea	167	ARG	N-CA-C	7.96	120.87	111.71
1	f9	97	ARG	CA-C-O	-7.96	113.11	121.87
1	fr	167	ARG	NE-CZ-NH2	-7.96	112.03	119.20
1	hA	128	GLU	N-CA-C	7.96	120.04	111.36
1	1M	66	MET	CA-C-O	-7.96	112.11	120.55
1	iD	156	GLY	CA-C-O	-7.96	114.74	122.46
1	iG	29	GLU	N-CA-C	7.96	120.87	111.71
1	jt	116	GLY	CA-C-N	7.96	130.79	120.44
1	jt	116	GLY	C-N-CA	7.96	130.79	120.44
1	jI	141	ILE	N-CA-C	7.96	118.76	110.72
1	jT	12	HIS	ND1-CE1-NE2	7.96	116.36	108.40
1	kZ	201	ILE	N-CA-C	7.96	121.04	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	148	THR	CA-CB-OG1	7.96	121.54	109.60
1	3x	211	LEU	N-CA-C	7.96	120.66	111.11
1	44	53	ASN	CA-CB-CG	-7.96	104.64	112.60
1	4r	223	GLY	CA-C-N	7.96	128.45	119.93
1	4r	223	GLY	C-N-CA	7.96	128.45	119.93
1	4Y	169	TYR	N-CA-C	7.96	120.04	111.36
1	7V	126	VAL	N-CA-C	7.96	119.70	110.62
1	8y	23	TRP	N-CA-C	7.96	119.74	111.14
1	8V	206	GLY	CA-C-N	7.96	127.60	119.56
1	8V	206	GLY	C-N-CA	7.96	127.60	119.56
1	ax	121	ASN	OD1-CG-ND2	7.96	130.56	122.60
1	e0	201	ILE	CA-C-O	-7.96	112.41	120.85
1	f7	15	ILE	O-C-N	-7.96	114.19	122.63
1	fr	80	TRP	N-CA-C	7.96	119.59	111.07
1	fH	188	THR	CA-C-N	7.96	130.95	120.28
1	fH	188	THR	C-N-CA	7.96	130.95	120.28
1	y	183	ASN	OD1-CG-ND2	-7.96	114.64	122.60
1	iq	16	SER	N-CA-CB	7.96	120.66	110.23
1	jx	147	PRO	CA-C-N	7.96	132.01	120.71
1	jx	147	PRO	C-N-CA	7.96	132.01	120.71
1	kl	166	ASP	N-CA-CB	-7.96	98.38	110.16
1	kZ	150	ILE	CA-C-N	7.96	133.34	120.60
1	kZ	150	ILE	C-N-CA	7.96	133.34	120.60
1	lc	12	HIS	CG-CD2-NE2	7.96	115.16	107.20
1	2F	51	ASP	CA-CB-CG	-7.96	104.64	112.60
1	7y	159	GLU	CA-C-O	-7.96	113.33	119.46
1	8h	73	ILE	N-CA-CB	7.96	119.86	110.55
1	b1	115	ILE	O-C-N	-7.96	114.11	121.91
1	c1	87	HIS	CA-C-O	-7.96	112.33	121.72
1	cM	62	HIS	CB-CG-CD2	-7.96	120.85	131.20
1	eC	68	MET	CA-C-N	7.96	131.29	120.54
1	eC	68	MET	C-N-CA	7.96	131.29	120.54
1	fK	117	TRP	N-CA-C	7.96	119.96	111.28
1	h4	97	ARG	NE-CZ-NH1	7.96	129.46	121.50
1	hU	141	ILE	N-CA-C	7.96	118.06	110.42
1	iD	99	PRO	CA-C-O	-7.96	112.00	121.95
1	j4	149	SER	CA-C-O	-7.96	112.41	121.40
1	jm	135	ILE	N-CA-C	7.96	119.69	110.62
1	jm	194	ALA	N-CA-C	7.96	120.86	110.43
1	jR	4	GLN	O-C-N	-7.96	113.88	122.00
1	lE	5	ASN	CA-C-O	7.96	128.99	120.55
1	41	167	ARG	CA-C-N	7.96	130.94	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	41	167	ARG	C-N-CA	7.96	130.94	120.28
1	4X	156	GLY	O-C-N	-7.96	113.81	121.77
1	5k	3	VAL	N-CA-CB	-7.96	102.94	111.46
1	6q	193	ASN	N-CA-C	-7.96	102.64	113.30
1	6A	176	GLN	CA-CB-CG	7.96	130.02	114.10
1	7I	192	GLN	OE1-CD-NE2	-7.96	114.64	122.60
1	7R	168	PHE	O-C-N	-7.96	113.87	122.07
1	8N	163	ASP	CA-CB-CG	-7.96	104.64	112.60
1	8S	171	THR	CA-C-N	7.96	130.79	120.44
1	8S	171	THR	C-N-CA	7.96	130.79	120.44
1	bg	213	GLU	CA-C-N	7.96	130.95	120.28
1	bg	213	GLU	C-N-CA	7.96	130.95	120.28
1	1a	210	THR	CA-C-N	7.96	130.79	120.44
1	1a	210	THR	C-N-CA	7.96	130.79	120.44
1	cS	120	HIS	CA-CB-CG	7.96	121.76	113.80
1	cS	186	THR	CA-C-O	-7.96	111.98	120.42
1	cV	36	VAL	CA-C-N	7.96	125.25	120.24
1	cV	36	VAL	C-N-CA	7.96	125.25	120.24
1	dx	84	HIS	CE1-NE2-CD2	-7.96	101.04	109.00
1	et	62	HIS	CA-CB-CG	-7.96	105.84	113.80
1	eG	80	TRP	CA-C-N	7.96	130.79	120.44
1	eG	80	TRP	C-N-CA	7.96	130.79	120.44
1	g3	119	THR	CA-CB-OG1	7.96	121.54	109.60
1	O	136	LEU	CA-C-N	7.96	128.75	120.00
1	O	136	LEU	C-N-CA	7.96	128.75	120.00
1	9	176	GLN	O-C-N	-7.96	114.15	123.22
1	1D	161	PHE	CA-CB-CG	7.96	121.76	113.80
1	gu	220	GLY	O-C-N	-7.96	116.50	122.71
1	gF	193	ASN	CA-C-O	7.96	127.48	118.97
1	kS	82	ARG	NH1-CZ-NH2	-7.96	108.96	119.30
1	25	75	GLU	N-CA-C	7.96	119.95	111.28
1	2t	151	LEU	N-CA-C	7.96	120.86	111.71
1	3z	52	LEU	CA-C-O	-7.96	112.47	120.82
1	4G	210	THR	CA-C-N	7.96	131.74	120.28
1	4G	210	THR	C-N-CA	7.96	131.74	120.28
1	4I	92	GLU	N-CA-C	7.96	119.74	109.64
1	5Z	161	PHE	CA-CB-CG	-7.96	105.84	113.80
1	84	57	ASN	N-CA-C	7.96	120.86	111.71
1	9B	7	GLN	OE1-CD-NE2	-7.96	114.64	122.60
1	dq	229	ARG	NE-CZ-NH1	7.96	129.46	121.50
1	dt	20	LEU	O-C-N	-7.96	113.88	122.07
1	er	192	GLN	N-CA-C	7.96	120.86	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eB	143	ARG	NE-CZ-NH1	7.96	129.46	121.50
1	eX	41	SER	CA-C-N	7.96	130.94	120.28
1	eX	41	SER	C-N-CA	7.96	130.94	120.28
1	fn	10	MET	N-CA-C	7.96	121.89	109.96
1	fX	63	GLN	N-CA-C	7.96	122.25	112.54
1	q	199	LYS	CA-C-N	7.96	130.78	120.44
1	q	199	LYS	C-N-CA	7.96	130.78	120.44
1	ib	121	ASN	OD1-CG-ND2	-7.96	114.64	122.60
1	24	38	PRO	CA-C-N	7.96	130.78	120.44
1	24	38	PRO	C-N-CA	7.96	130.78	120.44
1	3K	102	SER	CA-C-N	7.96	130.94	120.28
1	3K	102	SER	C-N-CA	7.96	130.94	120.28
1	52	27	VAL	O-C-N	-7.96	111.14	122.12
1	55	169	TYR	O-C-N	-7.96	113.08	122.15
1	5g	4	GLN	OE1-CD-NE2	-7.96	114.64	122.60
1	5V	128	GLU	N-CA-C	7.96	120.66	111.11
1	6n	82	ARG	N-CA-C	7.96	119.95	111.28
1	6B	230	VAL	CB-CA-C	7.96	120.59	110.96
1	8R	204	ALA	CA-C-N	7.96	130.94	120.28
1	8R	204	ALA	C-N-CA	7.96	130.94	120.28
1	9k	13	GLN	OE1-CD-NE2	-7.96	114.64	122.60
1	fn	26	VAL	O-C-N	-7.96	113.64	121.83
1	fz	63	GLN	O-C-N	-7.96	113.69	122.12
1	fQ	154	ARG	NE-CZ-NH2	-7.96	112.04	119.20
1	g1	172	LEU	N-CA-C	7.96	120.03	111.36
1	hD	89	GLY	CA-C-N	7.95	129.78	119.84
1	hD	89	GLY	C-N-CA	7.95	129.78	119.84
1	hV	49	PRO	CA-C-N	7.95	130.78	120.44
1	hV	49	PRO	C-N-CA	7.95	130.78	120.44
1	kh	107	THR	N-CA-C	7.95	119.95	111.28
1	lR	171	THR	N-CA-C	7.95	120.03	111.36
1	2M	130	TYR	O-C-N	-7.95	112.49	122.27
1	3C	137	GLY	CA-C-N	7.95	130.94	120.28
1	3C	137	GLY	C-N-CA	7.95	130.94	120.28
1	6e	207	PRO	N-CA-CB	-7.95	95.24	103.19
1	6P	179	GLN	N-CA-C	7.95	120.95	111.33
1	7Q	92	GLU	CA-C-N	7.95	129.78	119.84
1	7Q	92	GLU	C-N-CA	7.95	129.78	119.84
1	8l	212	GLU	N-CA-C	7.95	120.66	111.11
1	96	50	GLN	OE1-CD-NE2	-7.95	114.65	122.60
1	9m	65	ALA	N-CA-C	7.95	120.03	111.36
1	13	7	GLN	OE1-CD-NE2	-7.95	114.65	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bt	19	THR	CA-C-O	7.95	128.98	120.55
1	bt	177	ALA	N-CA-C	7.95	120.58	110.24
1	bI	11	VAL	CA-C-N	7.95	132.16	120.87
1	bI	11	VAL	C-N-CA	7.95	132.16	120.87
1	d6	27	VAL	O-C-N	-7.95	114.12	121.91
1	ey	97	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	eR	118	MET	CA-C-O	7.95	129.22	120.63
1	eX	208	ALA	N-CA-CB	-7.95	98.72	110.49
1	fT	184	TRP	CA-C-N	7.95	130.78	120.44
1	fT	184	TRP	C-N-CA	7.95	130.78	120.44
1	h	141	ILE	N-CA-C	7.95	118.06	110.42
1	N	196	PRO	CA-C-N	7.95	130.94	120.28
1	N	196	PRO	C-N-CA	7.95	130.94	120.28
1	4	134	ILE	CA-C-N	7.95	131.74	120.53
1	4	134	ILE	C-N-CA	7.95	131.74	120.53
1	hw	162	ARG	N-CA-C	7.95	119.95	111.28
1	iD	114	GLN	CA-C-N	7.95	130.58	120.56
1	iD	114	GLN	C-N-CA	7.95	130.58	120.56
1	jn	106	GLY	N-CA-C	-7.95	103.74	114.95
1	jA	189	LEU	N-CA-C	7.95	119.95	111.28
1	ke	59	VAL	N-CA-C	7.95	118.50	110.23
1	21	14	ALA	O-C-N	-7.95	112.64	122.82
1	l4	66	MET	CA-C-N	7.95	130.94	120.28
1	l4	66	MET	C-N-CA	7.95	130.94	120.28
1	26	204	ALA	N-CA-C	7.95	119.73	111.14
1	lA	101	GLY	CA-C-O	7.95	129.24	121.05
1	3G	225	GLY	CA-C-N	7.95	131.73	120.28
1	3G	225	GLY	C-N-CA	7.95	131.73	120.28
1	3U	200	THR	CA-C-N	7.95	131.19	120.77
1	3U	200	THR	C-N-CA	7.95	131.19	120.77
1	5U	13	GLN	O-C-N	-7.95	113.46	123.24
1	87	75	GLU	CA-C-O	-7.95	112.12	120.55
1	9Z	70	LYS	N-CA-C	7.95	119.95	111.28
1	e9	191	VAL	N-CA-C	7.95	123.55	112.50
1	fk	183	ASN	CA-C-N	7.95	131.28	120.54
1	fk	183	ASN	C-N-CA	7.95	131.28	120.54
1	gg	121	ASN	O-C-N	-7.95	114.31	121.39
1	gA	178	SER	CA-C-N	7.95	131.27	120.54
1	gA	178	SER	C-N-CA	7.95	131.27	120.54
1	gA	192	GLN	O-C-N	7.95	130.55	122.12
1	i7	140	LYS	N-CA-C	7.95	119.94	111.28
1	im	43	LEU	O-C-N	-7.95	111.40	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ir	77	ALA	N-CA-C	7.95	120.65	111.11
1	iB	146	SER	N-CA-C	7.95	127.38	109.81
1	1W	115	ILE	CA-C-N	7.95	128.97	119.99
1	1W	115	ILE	C-N-CA	7.95	128.97	119.99
1	ld	150	ILE	O-C-N	-7.95	112.82	121.80
1	2l	43	LEU	N-CA-C	7.95	121.04	111.82
1	2E	128	GLU	CA-C-N	7.95	130.64	120.70
1	2E	128	GLU	C-N-CA	7.95	130.64	120.70
1	2Z	162	ARG	N-CA-C	7.95	121.92	111.75
1	3P	23	TRP	CA-C-N	7.95	130.58	120.56
1	3P	23	TRP	C-N-CA	7.95	130.58	120.56
1	4X	145	TYR	CB-CG-CD1	-7.95	108.88	120.80
1	5b	21	ASN	O-C-N	7.95	130.26	122.07
1	6g	165	VAL	N-CA-C	7.95	118.05	110.42
1	6R	64	ALA	CA-C-N	7.95	131.15	120.65
1	6R	64	ALA	C-N-CA	7.95	131.15	120.65
1	8f	189	LEU	O-C-N	-7.95	111.78	122.43
1	a8	103	ASP	N-CA-C	-7.95	101.91	111.69
1	aQ	115	ILE	CA-C-N	7.95	128.97	119.99
1	aQ	115	ILE	C-N-CA	7.95	128.97	119.99
1	bT	223	GLY	O-C-N	-7.95	113.82	121.77
1	bZ	140	LYS	CA-C-O	7.95	129.35	121.00
1	cJ	200	THR	O-C-N	-7.95	113.69	122.12
1	dp	48	THR	O-C-N	-7.95	112.78	121.53
1	dT	11	VAL	O-C-N	-7.95	114.91	123.18
1	eW	75	GLU	N-CA-C	7.95	119.64	110.97
1	fb	164	TYR	N-CA-C	7.95	119.58	111.07
1	e	21	ASN	CA-CB-CG	7.95	120.55	112.60
1	h	36	VAL	N-CA-C	7.95	118.71	110.36
1	gv	146	SER	O-C-N	-7.95	114.79	121.23
1	gJ	71	GLU	N-CA-C	7.95	119.94	111.28
1	1G	73	ILE	N-CA-CB	7.95	121.35	110.54
1	1J	163	ASP	CA-C-N	7.95	130.77	120.44
1	1J	163	ASP	C-N-CA	7.95	130.77	120.44
1	hW	44	SER	N-CA-CB	7.95	124.31	111.20
1	iP	223	GLY	CA-C-N	7.95	128.00	119.89
1	iP	223	GLY	C-N-CA	7.95	128.00	119.89
1	jy	96	MET	N-CA-C	7.95	122.04	110.28
1	kz	165	VAL	CA-C-N	7.95	130.77	120.44
1	kz	165	VAL	C-N-CA	7.95	130.77	120.44
1	kT	47	ALA	O-C-N	-7.95	113.19	122.89
1	kV	20	LEU	CA-C-N	7.95	132.39	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kV	20	LEU	C-N-CA	7.95	132.39	120.31
1	ln	62	HIS	CA-CB-CG	-7.95	105.85	113.80
1	lP	225	GLY	O-C-N	-7.95	114.26	122.13
1	2S	45	GLU	O-C-N	-7.95	113.63	123.01
1	33	2	ILE	CB-CA-C	7.95	123.52	111.68
1	3m	9	GLN	CA-C-O	7.95	130.96	121.66
1	3M	92	GLU	N-CA-C	-7.95	95.35	108.23
1	3V	155	GLN	OE1-CD-NE2	-7.95	114.65	122.60
1	4A	113	GLU	CA-C-O	7.95	128.97	120.55
1	4B	9	GLN	O-C-N	-7.95	113.48	122.86
1	5H	32	PHE	CA-CB-CG	-7.95	105.85	113.80
1	5K	4	GLN	CA-C-O	7.95	128.94	120.36
1	5O	16	SER	CA-C-N	7.95	129.78	119.84
1	5O	16	SER	C-N-CA	7.95	129.78	119.84
1	6C	139	ASN	CA-CB-CG	7.95	120.55	112.60
1	7d	26	VAL	N-CA-CB	7.95	119.85	110.55
1	7B	139	ASN	CA-CB-CG	-7.95	104.65	112.60
1	7R	91	ILE	CA-C-N	7.95	134.10	121.62
1	7R	91	ILE	C-N-CA	7.95	134.10	121.62
1	8v	161	PHE	CA-C-N	7.95	130.77	120.44
1	8v	161	PHE	C-N-CA	7.95	130.77	120.44
1	8R	195	ASN	O-C-N	-7.95	113.56	121.27
1	a1	166	ASP	N-CA-C	-7.95	101.91	111.69
1	aT	162	ARG	N-CA-C	7.95	120.65	111.11
1	ba	161	PHE	CA-C-O	7.95	128.97	120.55
1	bf	29	GLU	N-CA-C	7.95	119.58	111.07
1	c8	192	GLN	N-CA-C	7.95	120.02	111.36
1	cf	229	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	cw	70	LYS	N-CA-C	7.95	119.94	111.28
1	cK	97	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	d6	20	LEU	CA-C-N	7.95	130.93	120.28
1	d6	20	LEU	C-N-CA	7.95	130.93	120.28
1	dH	34	PRO	CA-C-N	7.95	131.58	120.29
1	dH	34	PRO	C-N-CA	7.95	131.58	120.29
1	fO	62	HIS	CB-CG-CD2	-7.95	120.87	131.20
1	i9	217	ALA	O-C-N	-7.95	113.96	123.10
1	kx	155	GLN	OE1-CD-NE2	-7.95	114.65	122.60
1	2w	206	GLY	CA-C-N	7.95	128.62	120.04
1	2w	206	GLY	C-N-CA	7.95	128.62	120.04
1	2V	123	PRO	CB-CA-C	7.95	121.71	111.46
1	6s	199	LYS	N-CA-C	7.95	120.85	111.71
1	7q	37	ILE	CA-C-N	7.95	127.61	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	37	ILE	C-N-CA	7.95	127.61	119.19
1	8j	26	VAL	O-C-N	-7.95	114.12	121.91
1	8M	17	PRO	CA-C-N	7.95	130.77	120.44
1	8M	17	PRO	C-N-CA	7.95	130.77	120.44
1	a3	193	ASN	N-CA-C	-7.95	103.16	113.17
1	bt	16	SER	N-CA-C	7.95	119.34	109.57
1	cH	191	VAL	CA-C-N	7.95	130.77	120.44
1	cH	191	VAL	C-N-CA	7.95	130.77	120.44
1	eh	182	LYS	N-CA-C	7.95	119.94	111.28
1	eQ	19	THR	O-C-N	-7.95	113.88	122.07
1	eQ	185	MET	CG-SD-CE	-7.95	83.42	100.90
1	gt	37	ILE	O-C-N	-7.95	115.33	120.42
1	gG	121	ASN	CA-CB-CG	-7.95	104.66	112.60
1	is	159	GLU	O-C-N	-7.95	113.12	121.30
1	iP	126	VAL	N-CA-C	7.95	118.05	110.42
1	kq	27	VAL	CA-C-N	7.95	130.93	120.28
1	kq	27	VAL	C-N-CA	7.95	130.93	120.28
1	2F	14	ALA	N-CA-C	7.95	121.47	110.35
1	2M	139	ASN	CA-CB-CG	-7.95	104.65	112.60
1	3J	34	PRO	N-CA-CB	7.95	111.97	103.39
1	4f	82	ARG	NE-CZ-NH2	-7.95	112.05	119.20
1	6l	25	LYS	O-C-N	-7.95	113.83	122.09
1	8q	84	HIS	CE1-NE2-CD2	-7.95	101.06	109.00
1	8N	125	PRO	CA-C-N	7.95	131.73	120.53
1	8N	125	PRO	C-N-CA	7.95	131.73	120.53
1	az	204	ALA	N-CA-C	7.95	119.94	111.28
1	17	181	VAL	N-CA-C	7.95	118.70	110.36
1	ce	16	SER	N-CA-C	7.95	119.34	109.57
1	cu	100	ARG	NE-CZ-NH1	7.95	129.45	121.50
1	cv	93	PRO	N-CA-C	-7.95	106.42	114.68
1	d4	41	SER	CA-C-N	7.95	130.93	120.28
1	d4	41	SER	C-N-CA	7.95	130.93	120.28
1	dl	51	ASP	CA-CB-CG	-7.95	104.66	112.60
1	et	195	ASN	CA-CB-CG	7.95	120.55	112.60
1	eU	82	ARG	NH1-CZ-NH2	-7.95	108.97	119.30
1	fJ	23	TRP	CB-CG-CD1	-7.95	114.98	126.90
1	g3	2	ILE	O-C-N	-7.95	115.04	123.14
1	4	176	GLN	CA-C-O	7.95	127.79	119.05
1	1D	203	LYS	N-CA-C	7.94	120.02	111.36
1	kN	81	ASP	N-CA-C	7.94	119.57	111.07
1	2f	189	LEU	N-CA-C	7.94	119.94	111.28
1	3q	171	THR	CA-C-N	7.94	131.26	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3q	171	THR	C-N-CA	7.94	131.26	120.54
1	4m	56	LEU	CA-C-O	7.94	129.08	120.10
1	5x	51	ASP	CA-CB-CG	-7.94	104.66	112.60
1	8X	154	ARG	O-C-N	-7.94	113.85	123.30
1	bz	82	ARG	NE-CZ-NH2	-7.94	112.05	119.20
1	f0	41	SER	O-C-N	-7.94	113.70	122.12
1	ga	192	GLN	OE1-CD-NE2	-7.94	114.66	122.60
1	h6	72	THR	CA-C-O	7.94	128.84	120.42
1	ij	185	MET	N-CA-C	7.94	120.64	111.11
1	2g	124	ILE	O-C-N	-7.94	116.37	121.37
1	2E	210	THR	CA-C-N	7.94	131.26	120.54
1	2E	210	THR	C-N-CA	7.94	131.26	120.54
1	4A	182	LYS	O-C-N	-7.94	113.70	122.12
1	55	83	LEU	N-CA-C	7.94	119.57	111.07
1	6A	78	ALA	N-CA-C	7.94	119.57	111.07
1	6F	177	ALA	CA-C-N	7.94	132.74	120.75
1	6F	177	ALA	C-N-CA	7.94	132.74	120.75
1	6Q	12	HIS	CE1-NE2-CD2	-7.94	101.06	109.00
1	71	181	VAL	CB-CA-C	-7.94	101.42	112.14
1	8G	214	MET	N-CA-C	7.94	120.64	111.11
1	8O	57	ASN	OD1-CG-ND2	7.94	130.54	122.60
1	9s	163	ASP	CA-C-N	7.94	131.26	120.54
1	9s	163	ASP	C-N-CA	7.94	131.26	120.54
1	aa	173	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	ag	2	ILE	CA-C-O	7.94	129.90	120.85
1	bi	56	LEU	CA-C-O	7.94	128.97	120.55
1	bY	195	ASN	CB-CA-C	7.94	122.06	109.27
1	d8	100	ARG	O-C-N	-7.94	112.96	122.65
1	ds	166	ASP	CA-CB-CG	7.94	120.54	112.60
1	dF	114	GLN	N-CA-C	7.94	119.94	111.28
1	ez	37	ILE	O-C-N	-7.94	115.34	120.42
1	f1	28	GLU	N-CA-C	7.94	119.85	111.03
1	gz	149	SER	CA-C-N	7.94	131.34	120.46
1	gz	149	SER	C-N-CA	7.94	131.34	120.46
1	hd	81	ASP	CA-C-O	7.94	129.16	119.79
1	hP	143	ARG	NE-CZ-NH2	7.94	126.35	119.20
1	j2	151	LEU	CA-C-O	7.94	128.89	119.60
1	jj	154	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	kD	227	LYS	N-CA-C	7.94	121.91	110.24
1	lE	26	VAL	N-CA-C	7.94	118.72	110.62
1	2U	49	PRO	CA-C-N	7.94	130.76	120.44
1	2U	49	PRO	C-N-CA	7.94	130.76	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Z	32	PHE	CA-CB-CG	-7.94	105.86	113.80
1	3v	14	ALA	O-C-N	-7.94	113.10	122.87
1	5X	141	ILE	N-CA-C	7.94	118.04	110.42
1	6I	18	ARG	CA-C-N	7.94	130.92	120.28
1	6I	18	ARG	C-N-CA	7.94	130.92	120.28
1	6M	114	GLN	N-CA-C	7.94	120.64	111.11
1	7C	136	LEU	CA-C-N	7.94	128.92	120.03
1	7C	136	LEU	C-N-CA	7.94	128.92	120.03
1	7G	77	ALA	CA-C-N	7.94	131.57	120.29
1	7G	77	ALA	C-N-CA	7.94	131.57	120.29
1	90	190	LEU	N-CA-C	7.94	120.94	111.33
1	ah	74	ASN	N-CA-C	7.94	119.94	111.28
1	aw	53	ASN	O-C-N	-7.94	113.83	122.09
1	aC	100	ARG	NH1-CZ-NH2	-7.94	108.98	119.30
1	bs	195	ASN	O-C-N	-7.94	114.87	121.38
1	bD	13	GLN	CA-C-N	7.94	132.74	120.75
1	bD	13	GLN	C-N-CA	7.94	132.74	120.75
1	1k	179	GLN	OE1-CD-NE2	-7.94	114.66	122.60
1	er	140	LYS	CA-C-N	7.94	130.56	120.56
1	er	140	LYS	C-N-CA	7.94	130.56	120.56
1	ex	179	GLN	N-CA-C	7.94	120.84	111.71
1	fv	51	ASP	CA-C-N	7.94	130.92	120.28
1	fv	51	ASP	C-N-CA	7.94	130.92	120.28
1	fN	133	TRP	CB-CG-CD1	7.94	138.81	126.90
1	w	156	GLY	N-CA-C	7.94	121.53	112.00
1	gR	42	ALA	CA-C-N	7.94	131.56	120.29
1	gR	42	ALA	C-N-CA	7.94	131.56	120.29
1	io	197	ASP	CA-CB-CG	-7.94	104.66	112.60
1	jC	98	GLU	CA-C-O	-7.94	112.29	119.75
1	kD	65	ALA	N-CA-C	-7.94	102.71	111.36
1	kL	175	GLU	CA-C-O	7.94	130.01	121.44
1	2i	163	ASP	CA-C-O	7.94	128.97	120.55
1	3g	228	ALA	N-CA-C	7.94	122.23	112.23
1	64	167	ARG	NE-CZ-NH2	-7.94	112.06	119.20
1	6X	226	HIS	CB-CG-CD2	-7.94	120.88	131.20
1	72	101	GLY	O-C-N	-7.94	114.57	122.19
1	9t	131	LYS	O-C-N	-7.94	113.70	122.12
1	9R	33	SER	CA-C-N	7.94	128.68	119.47
1	9R	33	SER	C-N-CA	7.94	128.68	119.47
1	a0	13	GLN	CA-C-N	7.94	132.01	120.82
1	a0	13	GLN	C-N-CA	7.94	132.01	120.82
1	ad	52	LEU	CA-C-N	7.94	130.92	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ad	52	LEU	C-N-CA	7.94	130.92	120.28
1	aG	200	THR	CA-C-N	7.94	131.34	120.46
1	aG	200	THR	C-N-CA	7.94	131.34	120.46
1	aQ	226	HIS	CA-CB-CG	7.94	121.74	113.80
1	ew	89	GLY	CA-C-N	7.94	129.76	119.84
1	ew	89	GLY	C-N-CA	7.94	129.76	119.84
1	eO	18	ARG	NE-CZ-NH2	-7.94	112.06	119.20
1	gd	47	ALA	N-CA-C	7.94	121.91	110.24
1	gi	26	VAL	N-CA-C	7.94	118.72	110.62
1	gt	11	VAL	N-CA-C	-7.94	96.69	108.12
1	hn	167	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	hG	197	ASP	CA-CB-CG	-7.94	104.66	112.60
1	1W	128	GLU	CA-C-O	7.94	128.96	120.55
1	jH	214	MET	N-CA-C	7.94	120.84	111.71
1	jP	49	PRO	CB-CA-C	7.94	124.66	111.56
1	kf	63	GLN	N-CA-C	7.94	119.93	111.28
1	kJ	84	HIS	CA-CB-CG	-7.94	105.86	113.80
1	2T	64	ALA	CA-C-N	7.94	131.24	120.44
1	2T	64	ALA	C-N-CA	7.94	131.24	120.44
1	3i	132	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	4k	195	ASN	N-CA-CB	7.94	122.02	110.03
1	5b	58	THR	N-CA-CB	7.94	121.79	110.12
1	6M	53	ASN	O-C-N	-7.94	113.70	122.12
1	8n	62	HIS	CA-CB-CG	-7.94	105.86	113.80
1	8B	55	MET	CA-C-O	7.94	128.96	120.55
1	9J	87	HIS	CA-C-N	7.94	131.71	120.28
1	9J	87	HIS	C-N-CA	7.94	131.71	120.28
1	a5	29	GLU	N-CA-C	7.94	123.17	113.17
1	as	5	ASN	CA-CB-CG	-7.94	104.66	112.60
1	as	179	GLN	N-CA-C	7.94	119.93	111.28
1	bT	90	PRO	CA-C-N	7.94	131.78	120.98
1	bT	90	PRO	C-N-CA	7.94	131.78	120.98
1	cr	18	ARG	CA-C-N	7.94	131.25	120.38
1	cr	18	ARG	C-N-CA	7.94	131.25	120.38
1	dE	137	GLY	O-C-N	-7.94	114.49	122.19
1	dT	200	THR	N-CA-C	7.94	120.94	111.33
1	eA	113	GLU	O-C-N	-7.94	113.89	122.07
1	eL	42	ALA	N-CA-C	7.94	120.84	111.71
1	N	23	TRP	CA-C-N	7.94	130.84	120.60
1	N	23	TRP	C-N-CA	7.94	130.84	120.60
1	iI	37	ILE	N-CA-C	7.94	122.59	112.67
1	jA	167	ARG	NE-CZ-NH1	7.94	129.44	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l0	230	VAL	N-CA-C	-7.94	104.63	112.17
1	l8	78	ALA	O-C-N	-7.94	113.71	122.12
1	2n	188	THR	N-CA-C	7.94	119.56	111.07
1	2H	66	MET	CA-C-O	7.94	128.96	120.55
1	2I	83	LEU	O-C-N	-7.94	113.46	122.03
1	9O	228	ALA	N-CA-C	7.94	120.56	110.24
1	aB	37	ILE	CA-C-O	-7.94	113.37	118.69
1	bK	153	ILE	N-CA-C	7.94	122.32	109.78
1	cw	135	ILE	O-C-N	-7.94	113.85	121.87
1	cI	100	ARG	NE-CZ-NH1	7.94	129.44	121.50
1	ej	71	GLU	N-CA-C	7.94	119.93	111.28
1	fN	89	GLY	CA-C-N	7.94	129.76	119.84
1	fN	89	GLY	C-N-CA	7.94	129.76	119.84
1	fX	40	PHE	O-C-N	-7.94	113.90	122.07
1	gt	146	SER	CA-C-N	7.93	129.76	119.84
1	gt	146	SER	C-N-CA	7.93	129.76	119.84
1	i8	66	MET	CA-C-N	7.93	130.91	120.28
1	i8	66	MET	C-N-CA	7.93	130.91	120.28
1	jy	144	MET	CA-C-N	7.93	130.75	120.44
1	jy	144	MET	C-N-CA	7.93	130.75	120.44
1	jU	211	LEU	O-C-N	-7.93	113.71	122.12
1	kH	163	ASP	CA-C-N	7.93	130.75	120.44
1	kH	163	ASP	C-N-CA	7.93	130.75	120.44
1	42	112	GLN	CA-C-O	7.93	129.09	119.97
1	4i	62	HIS	CB-CG-CD2	-7.93	120.88	131.20
1	5t	167	ARG	N-CA-C	7.93	120.93	111.33
1	6D	179	GLN	OE1-CD-NE2	-7.93	114.67	122.60
1	7h	173	ARG	N-CA-C	7.93	119.93	111.28
1	8m	50	GLN	N-CA-C	7.93	120.93	111.33
1	8C	4	GLN	CA-C-N	7.93	132.09	120.90
1	8C	4	GLN	C-N-CA	7.93	132.09	120.90
1	8U	173	ARG	N-CA-C	7.93	119.93	111.28
1	am	58	THR	CA-C-N	7.93	131.69	120.42
1	am	58	THR	C-N-CA	7.93	131.69	120.42
1	aF	12	HIS	CE1-NE2-CD2	-7.93	101.07	109.00
1	aJ	214	MET	N-CA-C	7.93	121.03	111.82
1	bn	34	PRO	CA-C-N	7.93	130.91	120.28
1	bn	34	PRO	C-N-CA	7.93	130.91	120.28
1	bB	102	SER	N-CA-C	7.93	120.01	111.36
1	ec	129	ILE	CA-CB-CG1	7.93	123.89	110.40
1	ew	173	ARG	NE-CZ-NH2	-7.93	112.06	119.20
1	fy	20	LEU	CA-C-N	7.93	131.25	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fy	20	LEU	C-N-CA	7.93	131.25	120.54
1	q	120	HIS	CA-CB-CG	-7.93	105.87	113.80
1	g8	21	ASN	CA-CB-CG	-7.93	104.67	112.60
1	ge	206	GLY	O-C-N	-7.93	113.84	121.77
1	gh	121	ASN	CA-C-O	-7.93	113.40	119.59
1	gu	192	GLN	N-CA-C	7.93	119.92	111.28
1	gH	127	GLY	O-C-N	-7.93	114.58	122.19
1	ij	168	PHE	N-CA-C	7.93	119.93	111.28
1	jX	164	TYR	CA-C-N	7.93	130.72	120.56
1	jX	164	TYR	C-N-CA	7.93	130.72	120.56
1	kg	149	SER	CA-C-N	7.93	133.00	120.47
1	kg	149	SER	C-N-CA	7.93	133.00	120.47
1	km	97	ARG	NE-CZ-NH2	7.93	126.34	119.20
1	lz	132	ARG	NE-CZ-NH1	7.93	129.43	121.50
1	lL	40	PHE	O-C-N	-7.93	113.71	122.12
1	3R	57	ASN	OD1-CG-ND2	-7.93	114.67	122.60
1	6G	191	VAL	N-CA-C	7.93	120.97	111.05
1	8y	5	ASN	CA-CB-CG	7.93	120.53	112.60
1	9e	203	LYS	CA-C-N	7.93	131.55	120.29
1	9e	203	LYS	C-N-CA	7.93	131.55	120.29
1	9o	52	LEU	O-C-N	-7.93	113.71	122.12
1	9S	67	GLN	CA-C-O	7.93	129.15	120.82
1	9S	142	VAL	CA-C-N	7.93	131.23	120.44
1	9S	142	VAL	C-N-CA	7.93	131.23	120.44
1	9Z	48	THR	N-CA-CB	7.93	120.75	110.04
1	a5	83	LEU	N-CA-C	7.93	120.01	111.36
1	bc	104	ILE	N-CA-C	-7.93	104.99	111.81
1	bm	12	HIS	CG-CD2-NE2	7.93	115.13	107.20
1	bL	190	LEU	N-CA-C	7.93	119.93	111.28
1	bX	113	GLU	CA-C-N	7.93	130.91	120.28
1	bX	113	GLU	C-N-CA	7.93	130.91	120.28
1	dj	26	VAL	N-CA-C	7.93	118.73	110.72
1	dt	20	LEU	CA-C-N	7.93	130.75	120.44
1	dt	20	LEU	C-N-CA	7.93	130.75	120.44
1	ea	2	ILE	O-C-N	-7.93	114.23	123.03
1	ep	182	LYS	N-CA-C	7.93	119.93	111.28
1	f5	115	ILE	CA-C-N	7.93	128.59	119.94
1	f5	115	ILE	C-N-CA	7.93	128.59	119.94
1	fe	121	ASN	CA-C-O	-7.93	111.94	119.55
1	ff	9	GLN	OE1-CD-NE2	-7.93	114.67	122.60
1	fk	182	LYS	CA-C-N	7.93	130.75	120.44
1	fk	182	LYS	C-N-CA	7.93	130.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	226	HIS	CE1-NE2-CD2	-7.93	101.07	109.00
1	hb	184	TRP	CB-CG-CD2	7.93	137.90	126.80
1	hg	124	ILE	O-C-N	-7.93	114.67	121.57
1	ho	72	THR	CA-C-N	7.93	130.55	120.56
1	ho	72	THR	C-N-CA	7.93	130.55	120.56
1	j4	209	ALA	N-CA-C	7.93	121.42	110.24
1	3l	117	TRP	O-C-N	-7.93	113.71	122.12
1	4V	54	THR	N-CA-CB	7.93	121.78	110.12
1	5J	107	THR	N-CA-C	-7.93	103.21	113.12
1	6a	136	LEU	CA-C-N	7.93	128.78	119.98
1	6a	136	LEU	C-N-CA	7.93	128.78	119.98
1	8Z	163	ASP	CA-CB-CG	-7.93	104.67	112.60
1	a5	223	GLY	CA-C-N	7.93	129.75	119.84
1	a5	223	GLY	C-N-CA	7.93	129.75	119.84
1	bj	26	VAL	CA-C-O	-7.93	112.44	120.85
1	bp	79	GLU	N-CA-C	7.93	120.63	111.11
1	bs	100	ARG	NE-CZ-NH1	7.93	129.43	121.50
1	bG	61	GLY	CA-C-N	7.93	133.62	122.36
1	bG	61	GLY	C-N-CA	7.93	133.62	122.36
1	ch	9	GLN	CA-C-N	7.93	133.83	122.09
1	ch	9	GLN	C-N-CA	7.93	133.83	122.09
1	cW	4	GLN	O-C-N	-7.93	114.37	123.33
1	C	70	LYS	O-C-N	-7.93	113.71	122.12
1	U	115	ILE	CA-C-N	7.93	128.59	119.94
1	U	115	ILE	C-N-CA	7.93	128.59	119.94
1	gO	116	GLY	O-C-N	-7.93	114.58	122.19
1	gX	228	ALA	CA-C-O	7.93	129.96	121.55
1	1H	143	ARG	NE-CZ-NH2	7.93	126.34	119.20
1	i5	175	GLU	O-C-N	-7.93	113.30	122.97
1	iI	122	PRO	CA-C-N	7.93	127.99	119.90
1	iI	122	PRO	C-N-CA	7.93	127.99	119.90
1	kd	70	LYS	N-CA-C	7.93	119.92	111.28
1	kC	117	TRP	CA-C-N	7.93	130.91	120.28
1	kC	117	TRP	C-N-CA	7.93	130.91	120.28
1	le	10	MET	CA-C-N	7.93	133.53	123.14
1	le	10	MET	C-N-CA	7.93	133.53	123.14
1	lN	124	ILE	CB-CA-C	7.93	120.40	111.04
1	2q	174	ALA	N-CA-CB	-7.93	97.47	110.40
1	3y	125	PRO	N-CA-CB	-7.93	96.94	102.73
1	3I	129	ILE	O-C-N	-7.93	114.14	121.91
1	5T	161	PHE	CA-CB-CG	7.93	121.73	113.80
1	8y	56	LEU	O-C-N	-7.93	113.53	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9l	206	GLY	O-C-N	-7.93	113.84	121.77
1	ak	109	SER	O-C-N	-7.93	114.13	123.41
1	az	101	GLY	CA-C-N	7.93	130.75	120.44
1	az	101	GLY	C-N-CA	7.93	130.75	120.44
1	aV	81	ASP	CA-C-N	7.93	130.75	120.44
1	aV	81	ASP	C-N-CA	7.93	130.75	120.44
1	c8	154	ARG	NE-CZ-NH2	-7.93	112.06	119.20
1	cX	170	LYS	CA-C-N	7.93	130.75	120.44
1	cX	170	LYS	C-N-CA	7.93	130.75	120.44
1	1j	60	GLY	CA-C-N	7.93	130.63	120.64
1	1j	60	GLY	C-N-CA	7.93	130.63	120.64
1	dK	18	ARG	CA-C-N	7.93	130.75	120.44
1	dK	18	ARG	C-N-CA	7.93	130.75	120.44
1	eU	118	MET	N-CA-C	7.93	120.83	111.71
1	f6	163	ASP	O-C-N	-7.93	113.72	122.12
1	1x	85	PRO	N-CA-CB	7.93	109.98	103.32
1	fI	21	ASN	CA-CB-CG	7.93	120.53	112.60
1	hE	29	GLU	N-CA-C	7.93	119.70	111.14
1	jw	123	PRO	N-CA-CB	7.93	110.37	103.31
1	kf	167	ARG	NE-CZ-NH2	7.93	126.33	119.20
1	3f	112	GLN	N-CA-C	7.93	119.92	111.28
1	3R	117	TRP	CA-C-N	7.93	131.70	120.28
1	3R	117	TRP	C-N-CA	7.93	131.70	120.28
1	44	63	GLN	N-CA-C	7.93	120.62	111.11
1	5F	5	ASN	CA-CB-CG	-7.93	104.67	112.60
1	6z	47	ALA	N-CA-C	7.93	121.45	110.35
1	cq	139	ASN	CA-CB-CG	-7.93	104.67	112.60
1	dl	6	LEU	N-CA-C	7.93	121.45	110.35
1	dm	199	LYS	CA-C-O	-7.93	112.04	120.92
1	g3	199	LYS	N-CA-C	7.93	119.92	111.28
1	hu	202	LEU	N-CA-C	7.93	119.55	111.07
1	jx	21	ASN	OD1-CG-ND2	-7.93	114.67	122.60
1	ku	37	ILE	CA-C-N	7.93	127.48	119.24
1	ku	37	ILE	C-N-CA	7.93	127.48	119.24
1	kv	76	GLU	CA-C-N	7.93	130.90	120.28
1	kv	76	GLU	C-N-CA	7.93	130.90	120.28
1	ly	16	SER	CA-C-N	7.93	127.59	119.19
1	ly	16	SER	C-N-CA	7.93	127.59	119.19
1	lD	190	LEU	N-CA-C	7.93	119.55	111.07
1	2S	82	ARG	NE-CZ-NH2	-7.93	112.06	119.20
1	3X	191	VAL	N-CA-CB	-7.93	99.76	110.54
1	7g	4	GLN	N-CA-CB	7.93	123.89	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7O	93	PRO	CB-CA-C	7.93	118.61	111.40
1	7R	33	SER	O-C-N	-7.93	112.55	121.43
1	7R	154	ARG	NE-CZ-NH1	7.93	129.43	121.50
1	86	103	ASP	CA-C-N	7.93	131.71	120.53
1	86	103	ASP	C-N-CA	7.93	131.71	120.53
1	8j	25	LYS	N-CA-C	7.93	119.92	111.28
1	8N	146	SER	N-CA-C	7.93	118.72	109.60
1	8X	79	GLU	CA-C-O	7.93	129.06	120.10
1	9o	190	LEU	CA-C-N	7.93	130.55	120.56
1	9o	190	LEU	C-N-CA	7.93	130.55	120.56
1	9C	82	ARG	NE-CZ-NH2	7.93	126.33	119.20
1	ab	44	SER	CA-C-O	7.93	128.83	119.48
1	bw	21	ASN	O-C-N	-7.93	113.11	122.15
1	bU	35	GLU	CA-C-N	7.93	131.32	120.46
1	bU	35	GLU	C-N-CA	7.93	131.32	120.46
1	cx	213	GLU	N-CA-C	7.93	119.92	111.28
1	dd	200	THR	CA-C-O	7.93	128.95	120.55
1	g	127	GLY	N-CA-C	7.93	122.92	112.77
1	L	31	ALA	N-CA-C	7.93	120.83	111.71
1	h9	86	VAL	N-CA-C	7.92	121.04	109.63
1	hr	12	HIS	CA-CB-CG	7.92	121.72	113.80
1	i0	48	THR	N-CA-CB	7.92	118.93	109.74
1	1U	139	ASN	OD1-CG-ND2	-7.92	114.67	122.60
1	jS	136	LEU	N-CA-CB	7.92	121.77	110.12
1	kf	193	ASN	OD1-CG-ND2	-7.92	114.68	122.60
1	lc	32	PHE	CA-CB-CG	-7.92	105.88	113.80
1	2i	102	SER	CA-C-N	7.92	130.74	120.44
1	2i	102	SER	C-N-CA	7.92	130.74	120.44
1	2D	139	ASN	N-CA-CB	7.92	121.75	109.94
1	5p	199	LYS	CA-C-N	7.92	131.24	120.54
1	5p	199	LYS	C-N-CA	7.92	131.24	120.54
1	5F	187	GLU	N-CA-C	7.92	120.82	111.71
1	6X	229	ARG	N-CA-C	7.92	121.41	110.24
1	7F	204	ALA	N-CA-C	7.92	119.92	111.28
1	8R	143	ARG	NE-CZ-NH2	-7.92	112.07	119.20
1	9D	166	ASP	O-C-N	-7.92	113.72	122.12
1	aI	92	GLU	N-CA-C	7.92	119.70	109.64
1	bk	94	GLY	N-CA-C	7.92	125.90	115.36
1	cf	188	THR	CA-C-N	7.92	131.24	120.38
1	cf	188	THR	C-N-CA	7.92	131.24	120.38
1	cR	211	LEU	CA-C-N	7.92	130.90	120.28
1	cR	211	LEU	C-N-CA	7.92	130.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eP	169	TYR	CA-C-N	7.92	130.90	120.28
1	eP	169	TYR	C-N-CA	7.92	130.90	120.28
1	fu	50	GLN	N-CA-C	7.92	119.92	111.28
1	fV	195	ASN	N-CA-C	7.92	118.71	109.60
1	i0	201	ILE	CA-C-N	7.92	131.24	120.54
1	i0	201	ILE	C-N-CA	7.92	131.24	120.54
1	k5	57	ASN	N-CA-CB	7.92	122.90	110.46
1	kE	98	GLU	CA-C-O	-7.92	112.71	119.76
1	l4	195	ASN	CA-CB-CG	-7.92	104.68	112.60
1	li	159	GLU	CA-C-N	7.92	129.74	119.84
1	li	159	GLU	C-N-CA	7.92	129.74	119.84
1	2B	68	MET	CA-C-O	7.92	128.95	120.55
1	6C	5	ASN	CA-C-N	7.92	131.23	120.38
1	6C	5	ASN	C-N-CA	7.92	131.23	120.38
1	aX	156	GLY	CA-C-N	7.92	128.35	119.32
1	aX	156	GLY	C-N-CA	7.92	128.35	119.32
1	gt	223	GLY	O-C-N	-7.92	113.85	121.77
1	hz	152	ASP	CA-C-N	7.92	131.12	120.50
1	hz	152	ASP	C-N-CA	7.92	131.12	120.50
1	hU	117	TRP	O-C-N	-7.92	113.72	122.12
1	ih	115	ILE	CA-C-N	7.92	128.73	119.94
1	ih	115	ILE	C-N-CA	7.92	128.73	119.94
1	im	132	ARG	NE-CZ-NH2	-7.92	112.07	119.20
1	kl	183	ASN	O-C-N	-7.92	113.72	122.12
1	ko	149	SER	CA-C-N	7.92	132.99	120.47
1	ko	149	SER	C-N-CA	7.92	132.99	120.47
1	kQ	221	VAL	N-CA-C	7.92	118.68	110.36
1	l0	117	TRP	O-C-N	-7.92	113.72	122.12
1	lh	103	ASP	CA-C-N	7.92	131.31	120.46
1	lh	103	ASP	C-N-CA	7.92	131.31	120.46
1	lj	211	LEU	O-C-N	7.92	130.23	122.07
1	lv	37	ILE	N-CA-CB	-7.92	104.27	110.45
1	3l	16	SER	N-CA-C	7.92	119.31	109.57
1	4e	204	ALA	CA-C-N	7.92	130.90	120.28
1	4e	204	ALA	C-N-CA	7.92	130.90	120.28
1	4h	218	CYS	N-CA-CB	7.92	123.88	110.49
1	4P	36	VAL	CA-C-N	7.92	126.67	120.33
1	4P	36	VAL	C-N-CA	7.92	126.67	120.33
1	4W	10	MET	N-CA-C	7.92	120.54	110.24
1	4Z	103	ASP	CA-CB-CG	-7.92	104.68	112.60
1	7p	53	ASN	OD1-CG-ND2	-7.92	114.68	122.60
1	7S	63	GLN	N-CA-C	7.92	119.92	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	63	GLN	N-CA-C	7.92	120.82	111.71
1	8y	185	MET	N-CA-C	7.92	120.91	111.33
1	8N	89	GLY	CA-C-O	-7.92	114.78	122.46
1	ao	101	GLY	N-CA-C	-7.92	102.76	113.37
1	aK	81	ASP	CA-CB-CG	-7.92	104.68	112.60
1	14	206	GLY	O-C-N	-7.92	113.85	121.77
1	ct	123	PRO	CB-CA-C	7.92	121.53	110.60
1	dc	197	ASP	O-C-N	7.92	130.52	122.12
1	dC	157	PRO	O-C-N	-7.92	111.94	122.64
1	gU	30	LYS	CA-C-O	7.92	127.41	119.97
1	iR	22	ALA	CA-C-N	7.92	131.54	120.29
1	iR	22	ALA	C-N-CA	7.92	131.54	120.29
1	34	214	MET	N-CA-C	7.92	119.91	111.28
1	7k	178	SER	N-CA-CB	7.92	121.68	110.04
1	7S	205	LEU	N-CA-C	7.92	122.51	113.01
1	9o	126	VAL	N-CA-C	7.92	119.65	110.62
1	c6	119	THR	CA-C-N	7.92	132.46	120.82
1	c6	119	THR	C-N-CA	7.92	132.46	120.82
1	cv	145	TYR	N-CA-CB	-7.92	97.59	110.42
1	dM	4	GLN	N-CA-CB	7.92	121.68	110.04
1	1n	138	LEU	O-C-N	-7.92	113.72	122.12
1	fZ	86	VAL	N-CA-CB	7.92	124.30	111.23
1	B	201	ILE	N-CA-CB	7.92	119.82	110.55
1	g9	181	VAL	O-C-N	-7.92	114.19	121.87
1	gi	136	LEU	CA-C-N	7.92	128.71	120.00
1	gi	136	LEU	C-N-CA	7.92	128.71	120.00
1	gr	165	VAL	O-C-N	-7.92	114.19	121.87
1	j8	68	MET	CA-C-N	7.92	130.73	120.44
1	j8	68	MET	C-N-CA	7.92	130.73	120.44
1	lO	141	ILE	CA-C-N	7.92	130.54	120.56
1	lO	141	ILE	C-N-CA	7.92	130.54	120.56
1	2V	120	HIS	ND1-CE1-NE2	7.92	116.32	108.40
1	2Z	98	GLU	O-C-N	-7.92	112.21	121.32
1	3T	164	TYR	N-CA-C	7.92	119.54	111.07
1	5t	26	VAL	N-CA-CB	7.92	119.82	110.55
1	8R	226	HIS	CB-CG-CD2	-7.92	120.91	131.20
1	9q	133	TRP	CB-CG-CD1	7.92	138.78	126.90
1	9F	57	ASN	N-CA-C	7.92	122.20	112.54
1	9N	68	MET	N-CA-C	7.92	119.91	111.28
1	9Q	87	HIS	CE1-NE2-CD2	-7.92	101.08	109.00
1	9R	51	ASP	CA-CB-CG	-7.92	104.68	112.60
1	aS	96	MET	N-CA-C	7.92	120.61	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	be	84	HIS	CA-C-O	7.92	125.77	119.59
1	bS	116	GLY	CA-C-N	7.92	131.23	120.54
1	bS	116	GLY	C-N-CA	7.92	131.23	120.54
1	ci	156	GLY	CA-C-O	-7.92	114.78	122.46
1	dm	74	ASN	OD1-CG-ND2	-7.92	114.68	122.60
1	eD	192	GLN	N-CA-C	7.92	120.91	111.33
1	fT	211	LEU	O-C-N	-7.92	113.85	122.09
1	ha	67	GLN	CA-C-O	7.92	129.13	120.82
1	ib	64	ALA	N-CA-C	7.92	119.91	111.28
1	it	62	HIS	CA-C-N	7.92	130.89	120.28
1	it	62	HIS	C-N-CA	7.92	130.89	120.28
1	j6	65	ALA	CA-C-N	7.92	130.73	120.44
1	j6	65	ALA	C-N-CA	7.92	130.73	120.44
1	21	229	ARG	NE-CZ-NH1	7.92	129.42	121.50
1	2k	219	GLN	N-CA-C	7.92	121.00	111.82
1	2N	24	VAL	O-C-N	-7.92	113.68	121.83
1	3l	47	ALA	CA-C-O	7.92	129.86	121.15
1	3Q	206	GLY	CA-C-N	7.92	127.97	119.90
1	3Q	206	GLY	C-N-CA	7.92	127.97	119.90
1	5n	221	VAL	CA-C-O	7.92	130.68	120.78
1	5r	173	ARG	NE-CZ-NH2	-7.92	112.08	119.20
1	6d	50	GLN	CA-C-N	7.92	130.73	120.44
1	6d	50	GLN	C-N-CA	7.92	130.73	120.44
1	9T	141	ILE	CA-C-N	7.92	130.81	120.60
1	9T	141	ILE	C-N-CA	7.92	130.81	120.60
1	a3	159	GLU	CA-C-N	7.92	129.74	119.84
1	a3	159	GLU	C-N-CA	7.92	129.74	119.84
1	as	155	GLN	O-C-N	-7.92	113.13	122.87
1	14	4	GLN	N-CA-CB	7.92	123.87	110.49
1	aY	39	MET	CA-C-O	7.92	129.13	120.82
1	aZ	73	ILE	CA-C-O	-7.92	112.78	121.17
1	bn	25	LYS	N-CA-C	7.92	119.99	111.36
1	br	202	LEU	CA-C-O	7.92	129.18	120.63
1	19	31	ALA	CA-C-N	7.92	133.34	122.34
1	19	31	ALA	C-N-CA	7.92	133.34	122.34
1	bS	210	THR	O-C-N	-7.92	113.67	123.01
1	cu	12	HIS	O-C-N	-7.92	113.98	123.16
1	1h	198	CYS	O-C-N	-7.92	113.12	122.15
1	d0	175	GLU	N-CA-C	7.92	121.23	109.59
1	de	21	ASN	CA-C-N	7.92	130.73	120.44
1	de	21	ASN	C-N-CA	7.92	130.73	120.44
1	dL	200	THR	CA-C-N	7.92	131.31	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dL	200	THR	C-N-CA	7.92	131.31	120.46
1	eK	60	GLY	CA-C-N	7.92	132.89	121.96
1	eK	60	GLY	C-N-CA	7.92	132.89	121.96
1	1v	161	PHE	CA-C-N	7.92	130.73	120.44
1	1v	161	PHE	C-N-CA	7.92	130.73	120.44
1	fm	69	LEU	N-CA-C	7.92	119.91	111.28
1	h2	106	GLY	CA-C-N	7.92	130.73	120.44
1	h2	106	GLY	C-N-CA	7.92	130.73	120.44
1	i6	95	GLN	CA-C-O	7.92	129.76	120.66
1	1U	37	ILE	N-CA-CB	7.92	115.49	110.50
1	jf	62	HIS	ND1-CG-CD2	7.92	114.02	106.10
1	lk	96	MET	O-C-N	-7.92	114.20	123.22
1	45	143	ARG	NE-CZ-NH2	-7.92	112.08	119.20
1	7O	43	LEU	O-C-N	-7.92	113.73	122.12
1	98	179	GLN	CA-C-N	7.92	131.22	120.38
1	98	179	GLN	C-N-CA	7.92	131.22	120.38
1	a9	14	ALA	CA-C-N	7.92	131.91	120.91
1	a9	14	ALA	C-N-CA	7.92	131.91	120.91
1	aa	59	VAL	N-CA-CB	7.92	119.81	110.55
1	ct	204	ALA	N-CA-CB	-7.92	98.46	110.33
1	d9	62	HIS	N-CA-C	7.92	122.37	112.24
1	dU	159	GLU	CA-C-N	7.92	129.73	119.84
1	dU	159	GLU	C-N-CA	7.92	129.73	119.84
1	gp	136	LEU	CA-C-N	7.91	128.71	120.00
1	gp	136	LEU	C-N-CA	7.91	128.71	120.00
1	gF	88	ALA	N-CA-C	7.91	119.54	111.07
1	h4	216	THR	N-CA-CB	7.91	122.55	110.28
1	1H	204	ALA	N-CA-C	7.91	124.35	111.37
1	hh	186	THR	N-CA-C	7.91	119.91	111.28
1	hz	84	HIS	O-C-N	-7.91	114.35	121.39
1	1S	64	ALA	O-C-N	-7.91	113.73	122.12
1	jy	229	ARG	CA-C-N	7.91	131.10	120.50
1	jy	229	ARG	C-N-CA	7.91	131.10	120.50
1	jX	186	THR	CA-C-O	-7.91	112.43	120.90
1	1Z	190	LEU	N-CA-C	7.91	119.91	111.28
1	3l	34	PRO	CA-C-N	7.91	131.67	120.28
1	3l	34	PRO	C-N-CA	7.91	131.67	120.28
1	3r	47	ALA	N-CA-C	7.91	121.99	110.28
1	5I	132	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	5M	169	TYR	N-CA-C	7.91	120.81	111.71
1	6B	168	PHE	CA-CB-CG	7.91	121.71	113.80
1	6X	103	ASP	N-CA-C	7.91	119.91	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9h	146	SER	CA-C-O	-7.91	114.15	119.29
1	9s	97	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	aK	143	ARG	NE-CZ-NH2	-7.91	112.08	119.20
1	14	112	GLN	CA-C-N	7.91	131.53	120.29
1	14	112	GLN	C-N-CA	7.91	131.53	120.29
1	b6	132	ARG	NH1-CZ-NH2	-7.91	109.01	119.30
1	bp	167	ARG	CA-C-N	7.91	131.22	120.54
1	bp	167	ARG	C-N-CA	7.91	131.22	120.54
1	bC	7	GLN	OE1-CD-NE2	-7.91	114.69	122.60
1	dX	138	LEU	N-CA-C	7.91	120.91	111.33
1	e6	192	GLN	N-CA-C	7.91	119.54	111.07
1	1r	37	ILE	CA-C-N	7.91	129.73	119.84
1	1r	37	ILE	C-N-CA	7.91	129.73	119.84
1	fm	173	ARG	N-CA-C	7.91	119.54	111.07
1	fs	36	VAL	CA-C-N	7.91	125.23	120.24
1	fs	36	VAL	C-N-CA	7.91	125.23	120.24
1	fE	25	LYS	CA-C-N	7.91	131.30	120.46
1	fE	25	LYS	C-N-CA	7.91	131.30	120.46
1	1K	14	ALA	N-CA-C	7.91	121.43	110.35
1	hW	179	GLN	CA-C-O	7.91	128.94	120.55
1	ld	74	ASN	CA-C-N	7.91	130.72	120.44
1	ld	74	ASN	C-N-CA	7.91	130.72	120.44
1	2e	12	HIS	CG-CD2-NE2	7.91	115.11	107.20
1	3H	29	GLU	CA-C-O	-7.91	112.55	120.70
1	3R	81	ASP	N-CA-C	7.91	122.19	112.54
1	4w	36	VAL	CA-C-N	7.91	126.66	120.33
1	4w	36	VAL	C-N-CA	7.91	126.66	120.33
1	6y	225	GLY	CA-C-O	7.91	128.90	120.75
1	12	159	GLU	CA-C-N	7.91	127.96	119.89
1	12	159	GLU	C-N-CA	7.91	127.96	119.89
1	bc	156	GLY	O-C-N	-7.91	113.86	121.77
1	bR	130	TYR	CA-C-N	7.91	131.22	120.54
1	bR	130	TYR	C-N-CA	7.91	131.22	120.54
1	h2	185	MET	N-CA-C	7.91	120.81	111.71
1	hn	95	GLN	OE1-CD-NE2	-7.91	114.69	122.60
1	hx	62	HIS	CB-CG-CD2	-7.91	120.92	131.20
1	iY	23	TRP	CA-C-N	7.91	131.65	120.42
1	iY	23	TRP	C-N-CA	7.91	131.65	120.42
1	1U	192	GLN	N-CA-C	7.91	122.93	113.28
1	2h	217	ALA	N-CA-C	7.91	120.79	110.43
1	2D	159	GLU	CA-C-N	7.91	128.39	119.93
1	2D	159	GLU	C-N-CA	7.91	128.39	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	16	SER	CA-C-O	-7.91	113.17	119.66
1	2O	54	THR	N-CA-C	7.91	119.90	111.28
1	2Q	16	SER	CA-C-O	-7.91	111.94	120.17
1	54	16	SER	CA-C-N	7.91	127.57	119.19
1	54	16	SER	C-N-CA	7.91	127.57	119.19
1	7g	185	MET	N-CA-C	7.91	119.90	111.28
1	7K	84	HIS	CA-C-N	7.91	127.96	119.89
1	7K	84	HIS	C-N-CA	7.91	127.96	119.89
1	84	187	GLU	CA-C-O	7.91	128.81	120.42
1	8O	114	GLN	CA-C-O	-7.91	112.44	120.90
1	8W	177	ALA	N-CA-C	7.91	121.39	110.24
1	ab	135	ILE	N-CA-C	7.91	118.01	110.42
1	aM	82	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	bp	134	ILE	N-CA-C	7.91	118.02	110.42
1	c0	50	GLN	N-CA-C	7.91	119.90	111.28
1	1d	13	GLN	N-CA-C	-7.91	96.57	108.99
1	dG	221	VAL	N-CA-C	7.91	118.02	110.42
1	e4	101	GLY	CA-C-N	7.91	131.22	120.38
1	e4	101	GLY	C-N-CA	7.91	131.22	120.38
1	fs	114	GLN	OE1-CD-NE2	-7.91	114.69	122.60
1	L	14	ALA	N-CA-C	7.91	121.11	110.35
1	g8	206	GLY	CA-C-N	7.91	127.55	119.56
1	g8	206	GLY	C-N-CA	7.91	127.55	119.56
1	hb	48	THR	CA-C-O	-7.91	112.17	120.87
1	hm	21	ASN	N-CA-C	7.91	119.90	111.28
1	iw	228	ALA	N-CA-C	7.91	119.53	111.07
1	kP	109	SER	O-C-N	-7.91	112.87	123.15
1	lk	71	GLU	O-C-N	7.91	130.22	122.07
1	lx	36	VAL	CA-C-N	7.91	126.66	120.33
1	lx	36	VAL	C-N-CA	7.91	126.66	120.33
1	lG	223	GLY	CA-C-N	7.91	129.72	119.84
1	lG	223	GLY	C-N-CA	7.91	129.72	119.84
1	lQ	126	VAL	N-CA-CB	7.91	120.36	110.47
1	2b	141	ILE	CA-CB-CG2	7.91	123.94	110.50
1	2S	145	TYR	N-CA-C	7.91	123.45	112.93
1	3P	16	SER	CA-C-N	7.91	128.65	119.47
1	3P	16	SER	C-N-CA	7.91	128.65	119.47
1	5o	193	ASN	OD1-CG-ND2	-7.91	114.69	122.60
1	7d	5	ASN	CA-C-O	7.91	127.38	119.08
1	8N	124	ILE	N-CA-CB	7.91	120.64	111.31
1	8W	2	ILE	CA-CB-CG1	7.91	123.84	110.40
1	96	77	ALA	CA-C-N	7.91	130.72	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	96	77	ALA	C-N-CA	7.91	130.72	120.44
1	ah	203	LYS	N-CA-C	7.91	119.90	111.28
1	b0	55	MET	O-C-N	-7.91	113.92	122.07
1	bv	45	GLU	N-CA-C	7.91	120.99	111.82
1	d0	183	ASN	OD1-CG-ND2	-7.91	114.69	122.60
1	ee	84	HIS	CA-CB-CG	7.91	121.71	113.80
1	fq	133	TRP	N-CA-C	7.91	119.90	111.28
1	v	24	VAL	O-C-N	-7.91	114.16	121.91
1	v	140	LYS	N-CA-C	7.91	119.90	111.28
1	hg	197	ASP	CA-CB-CG	7.91	120.51	112.60
1	i1	26	VAL	N-CA-C	7.91	120.93	111.05
1	jz	84	HIS	N-CA-C	7.91	119.60	109.72
1	jz	175	GLU	N-CA-C	7.91	119.98	111.36
1	kl	25	LYS	N-CA-C	7.91	119.53	111.07
1	kF	19	THR	N-CA-C	7.91	119.90	111.28
1	2I	230	VAL	N-CA-C	7.91	119.14	110.21
1	5p	37	ILE	O-C-N	-7.91	115.36	120.42
1	68	74	ASN	CA-CB-CG	7.91	120.51	112.60
1	8o	80	TRP	CA-C-N	7.91	130.88	120.28
1	8o	80	TRP	C-N-CA	7.91	130.88	120.28
1	bS	200	THR	CA-C-N	7.91	130.52	120.56
1	bS	200	THR	C-N-CA	7.91	130.52	120.56
1	ct	73	ILE	N-CA-CB	7.91	121.29	110.54
1	fD	142	VAL	N-CA-C	7.91	122.08	111.17
1	a	20	LEU	N-CA-C	7.91	119.90	111.28
1	j	229	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	1D	12	HIS	CA-CB-CG	7.91	121.71	113.80
1	hl	104	ILE	CA-C-N	7.91	131.66	120.28
1	hl	104	ILE	C-N-CA	7.91	131.66	120.28
1	ip	100	ARG	CA-C-N	7.91	128.76	119.98
1	ip	100	ARG	C-N-CA	7.91	128.76	119.98
1	iC	120	HIS	ND1-CE1-NE2	7.91	116.31	108.40
1	ji	136	LEU	CA-C-N	7.91	128.69	120.00
1	ji	136	LEU	C-N-CA	7.91	128.69	120.00
1	ji	139	ASN	OD1-CG-ND2	-7.91	114.69	122.60
1	jp	29	GLU	N-CA-C	7.91	119.90	111.28
1	jx	209	ALA	CA-C-N	7.91	132.35	121.05
1	jx	209	ALA	C-N-CA	7.91	132.35	121.05
1	ka	181	VAL	CA-C-O	7.91	129.01	120.47
1	l4	200	THR	O-C-N	-7.91	113.74	122.12
1	li	175	GLU	N-CA-C	7.91	121.10	110.35
1	lp	78	ALA	O-C-N	-7.91	112.55	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2n	195	ASN	N-CA-C	7.91	119.87	109.83
1	2A	201	ILE	N-CA-C	7.91	118.68	110.62
1	3S	209	ALA	N-CA-C	7.91	121.86	110.24
1	3X	191	VAL	N-CA-C	7.91	118.68	110.62
1	4x	12	HIS	CA-CB-CG	7.91	121.70	113.80
1	5h	229	ARG	NE-CZ-NH1	7.91	129.41	121.50
1	5u	195	ASN	CA-C-N	7.91	127.57	119.19
1	5u	195	ASN	C-N-CA	7.91	127.57	119.19
1	6K	27	VAL	CA-C-N	7.91	130.87	120.28
1	6K	27	VAL	C-N-CA	7.91	130.87	120.28
1	70	87	HIS	CA-CB-CG	7.91	121.70	113.80
1	70	147	PRO	CA-C-N	7.91	134.23	120.87
1	70	147	PRO	C-N-CA	7.91	134.23	120.87
1	7f	114	GLN	N-CA-C	7.91	119.53	111.07
1	8g	120	HIS	CE1-NE2-CD2	-7.91	101.09	109.00
1	8H	229	ARG	NE-CZ-NH2	7.91	126.31	119.20
1	9c	126	VAL	CA-C-N	7.91	130.02	120.14
1	9c	126	VAL	C-N-CA	7.91	130.02	120.14
1	9W	149	SER	CA-C-N	7.91	131.68	120.53
1	9W	149	SER	C-N-CA	7.91	131.68	120.53
1	9X	37	ILE	CA-C-N	7.91	127.47	118.85
1	9X	37	ILE	C-N-CA	7.91	127.47	118.85
1	bB	165	VAL	CA-C-N	7.91	130.72	120.44
1	bB	165	VAL	C-N-CA	7.91	130.72	120.44
1	cl	139	ASN	N-CA-C	7.91	119.90	111.28
1	cH	17	PRO	CA-C-N	7.91	130.87	120.28
1	cH	17	PRO	C-N-CA	7.91	130.87	120.28
1	cN	143	ARG	NE-CZ-NH2	-7.91	112.08	119.20
1	cX	159	GLU	O-C-N	-7.91	114.27	121.30
1	dd	42	ALA	N-CA-CB	-7.91	98.46	110.16
1	L	162	ARG	N-CA-C	7.91	120.90	111.33
1	8	188	THR	N-CA-C	7.91	119.53	111.07
1	gD	133	TRP	CB-CG-CD1	7.90	138.76	126.90
1	kL	135	ILE	CA-C-N	7.90	130.72	120.44
1	kL	135	ILE	C-N-CA	7.90	130.72	120.44
1	l9	62	HIS	N-CA-C	7.90	122.50	112.86
1	60	84	HIS	CA-C-N	7.90	128.37	119.83
1	60	84	HIS	C-N-CA	7.90	128.37	119.83
1	69	67	GLN	CA-C-N	7.90	131.19	120.44
1	69	67	GLN	C-N-CA	7.90	131.19	120.44
1	6u	21	ASN	CA-CB-CG	7.90	120.50	112.60
1	6V	206	GLY	CA-C-N	7.90	129.15	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6V	206	GLY	C-N-CA	7.90	129.15	119.98
1	7Y	122	PRO	CA-C-N	7.90	129.72	119.84
1	7Y	122	PRO	C-N-CA	7.90	129.72	119.84
1	98	92	GLU	CA-C-N	7.90	129.72	119.84
1	98	92	GLU	C-N-CA	7.90	129.72	119.84
1	aN	121	ASN	CA-CB-CG	7.90	120.50	112.60
1	cd	128	GLU	N-CA-C	7.90	119.53	111.07
1	cG	26	VAL	CB-CA-C	-7.90	101.47	112.14
1	1x	229	ARG	NE-CZ-NH1	7.90	129.40	121.50
1	fW	71	GLU	N-CA-CB	7.90	121.74	110.12
1	s	200	THR	CA-C-N	7.90	130.58	120.70
1	s	200	THR	C-N-CA	7.90	130.58	120.70
1	iK	72	THR	N-CA-CB	7.90	121.47	110.01
1	jR	129	ILE	N-CA-CB	-7.90	101.30	110.55
1	jZ	204	ALA	CA-C-N	7.90	130.71	120.44
1	jZ	204	ALA	C-N-CA	7.90	130.71	120.44
1	k1	154	ARG	CA-C-O	7.90	129.47	120.54
1	lg	159	GLU	O-C-N	-7.90	113.38	121.28
1	4s	159	GLU	N-CA-C	7.90	119.60	109.72
1	8B	45	GLU	N-CA-C	7.90	119.89	111.28
1	9u	227	LYS	N-CA-C	7.90	119.89	111.28
1	a0	47	ALA	N-CA-C	7.90	121.10	110.35
1	cS	168	PHE	CA-C-N	7.90	130.87	120.28
1	cS	168	PHE	C-N-CA	7.90	130.87	120.28
1	v	226	HIS	CB-CA-C	7.90	122.38	111.63
1	hm	189	LEU	N-CA-C	7.90	119.97	111.36
1	ht	229	ARG	CG-CD-NE	-7.90	94.62	112.00
1	hB	161	PHE	CA-CB-CG	-7.90	105.90	113.80
1	ib	210	THR	N-CA-C	7.90	121.69	110.23
1	jk	21	ASN	CA-C-N	7.90	131.21	120.54
1	jk	21	ASN	C-N-CA	7.90	131.21	120.54
1	jD	136	LEU	O-C-N	-7.90	113.75	122.12
1	k6	120	HIS	N-CA-C	7.90	120.52	110.33
1	kK	16	SER	O-C-N	-7.90	113.16	121.30
1	lj	107	THR	N-CA-C	7.90	119.89	111.28
1	3B	33	SER	CA-C-N	7.90	128.09	119.87
1	3B	33	SER	C-N-CA	7.90	128.09	119.87
1	4u	226	HIS	ND1-CE1-NE2	7.90	116.30	108.40
1	5N	104	ILE	CA-C-O	7.90	129.17	120.95
1	5R	202	LEU	CA-C-O	-7.90	112.52	120.82
1	81	105	ALA	N-CA-C	7.90	119.67	111.14
1	8h	229	ARG	NE-CZ-NH1	7.90	129.40	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8v	149	SER	N-CA-C	-7.90	99.88	110.55
1	8x	182	LYS	CA-C-N	7.90	131.21	120.54
1	8x	182	LYS	C-N-CA	7.90	131.21	120.54
1	8T	98	GLU	CA-C-N	7.90	128.36	119.83
1	8T	98	GLU	C-N-CA	7.90	128.36	119.83
1	9S	190	LEU	O-C-N	-7.90	113.81	122.03
1	a0	67	GLN	CA-C-N	7.90	130.87	120.28
1	a0	67	GLN	C-N-CA	7.90	130.87	120.28
1	bf	42	ALA	O-C-N	7.90	130.21	122.07
1	bE	205	LEU	CA-C-N	7.90	134.28	121.87
1	bE	205	LEU	C-N-CA	7.90	134.28	121.87
1	bM	71	GLU	N-CA-C	7.90	122.18	112.54
1	1e	153	ILE	O-C-N	-7.90	114.25	122.63
1	cC	195	ASN	CA-C-N	7.90	127.46	119.24
1	cC	195	ASN	C-N-CA	7.90	127.46	119.24
1	cJ	219	GLN	OE1-CD-NE2	7.90	130.50	122.60
1	d9	160	PRO	N-CA-CB	-7.90	94.95	103.25
1	eo	63	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	fI	135	ILE	N-CA-C	7.90	118.68	110.62
1	fR	159	GLU	O-C-N	-7.90	112.84	121.53
1	b	184	TRP	N-CA-C	7.90	119.89	111.28
1	hq	79	GLU	CA-C-O	-7.90	112.05	120.42
1	1M	73	ILE	N-CA-C	7.90	118.68	110.62
1	is	63	GLN	N-CA-C	7.90	119.89	111.28
1	iK	177	ALA	CA-C-N	7.90	132.68	120.75
1	iK	177	ALA	C-N-CA	7.90	132.68	120.75
1	2t	40	PHE	CA-CB-CG	7.90	121.70	113.80
1	3f	101	GLY	CA-C-N	7.90	131.65	120.28
1	3f	101	GLY	C-N-CA	7.90	131.65	120.28
1	3g	36	VAL	N-CA-C	7.90	120.92	111.05
1	3Q	62	HIS	CA-CB-CG	7.90	121.70	113.80
1	4s	32	PHE	CA-CB-CG	-7.90	105.90	113.80
1	4v	118	MET	N-CA-C	7.90	120.98	111.82
1	56	4	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	6U	39	MET	N-CA-C	7.90	119.89	111.28
1	78	162	ARG	NE-CZ-NH1	7.90	129.40	121.50
1	7r	103	ASP	CA-C-N	7.90	130.51	120.56
1	7r	103	ASP	C-N-CA	7.90	130.51	120.56
1	7Z	87	HIS	CA-C-N	7.90	132.43	120.82
1	7Z	87	HIS	C-N-CA	7.90	132.43	120.82
1	bd	179	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	bW	163	ASP	CA-C-O	7.90	129.11	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c1	146	SER	CA-C-N	7.90	127.95	119.89
1	c1	146	SER	C-N-CA	7.90	127.95	119.89
1	d7	154	ARG	NE-CZ-NH2	7.90	126.31	119.20
1	ds	226	HIS	CA-CB-CG	7.90	121.70	113.80
1	g7	163	ASP	CA-CB-CG	-7.90	104.70	112.60
1	1B	37	ILE	N-CA-CB	7.90	116.61	110.45
1	gR	25	LYS	N-CA-C	7.90	119.52	111.07
1	i0	92	GLU	N-CA-C	7.90	118.68	109.60
1	if	146	SER	CA-C-N	7.90	127.95	119.89
1	if	146	SER	C-N-CA	7.90	127.95	119.89
1	iO	39	MET	N-CA-C	7.90	119.89	111.28
1	jj	14	ALA	N-CA-C	7.90	120.96	110.53
1	ln	26	VAL	CA-C-N	7.90	131.28	120.46
1	ln	26	VAL	C-N-CA	7.90	131.28	120.46
1	lJ	167	ARG	NE-CZ-NH1	7.90	129.40	121.50
1	2o	87	HIS	CE1-NE2-CD2	-7.90	101.10	109.00
1	2K	53	ASN	CA-CB-CG	-7.90	104.70	112.60
1	2L	79	GLU	N-CA-C	7.90	119.52	111.07
1	2S	167	ARG	N-CA-C	7.90	119.52	111.07
1	4c	128	GLU	CA-C-N	7.90	130.51	120.56
1	4c	128	GLU	C-N-CA	7.90	130.51	120.56
1	66	28	GLU	N-CA-C	7.90	120.98	111.82
1	6q	7	GLN	N-CA-C	7.90	120.79	111.71
1	6x	96	MET	N-CA-C	7.90	121.09	110.35
1	72	195	ASN	CA-C-O	-7.90	112.33	119.75
1	7y	4	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	7D	100	ARG	CA-C-N	7.90	128.75	119.98
1	7D	100	ARG	C-N-CA	7.90	128.75	119.98
1	7Q	153	ILE	O-C-N	-7.90	114.04	122.81
1	8d	159	GLU	CA-C-O	7.90	127.04	119.62
1	8T	83	LEU	N-CA-CB	-7.90	98.56	110.01
1	9k	162	ARG	NE-CZ-NH2	-7.90	112.09	119.20
1	a5	188	THR	CA-C-N	7.90	131.20	120.54
1	a5	188	THR	C-N-CA	7.90	131.20	120.54
1	bu	14	ALA	O-C-N	-7.90	114.09	122.94
1	bF	139	ASN	OD1-CG-ND2	-7.90	114.70	122.60
1	bL	114	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	bZ	156	GLY	O-C-N	-7.90	115.31	122.42
1	cV	18	ARG	NE-CZ-NH2	-7.90	112.09	119.20
1	dx	101	GLY	CA-C-O	7.90	128.99	120.30
1	dZ	185	MET	O-C-N	-7.90	113.75	122.12
1	w	132	ARG	O-C-N	-7.90	113.75	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gT	167	ARG	NE-CZ-NH1	7.90	129.40	121.50
1	hO	163	ASP	CA-C-O	7.90	129.11	120.82
1	jv	114	GLN	OE1-CD-NE2	-7.90	114.70	122.60
1	lJ	96	MET	O-C-N	-7.90	113.44	122.68
1	2k	173	ARG	CA-C-N	7.90	131.65	120.28
1	2k	173	ARG	C-N-CA	7.90	131.65	120.28
1	66	162	ARG	NE-CZ-NH1	7.90	129.40	121.50
1	75	82	ARG	N-CA-C	7.90	119.89	111.28
1	7A	62	HIS	CB-CG-CD2	-7.90	120.94	131.20
1	8k	198	CYS	O-C-N	-7.90	111.97	122.23
1	9S	43	LEU	CA-C-O	7.90	128.92	120.55
1	a1	90	PRO	CA-C-O	-7.90	112.08	121.95
1	aq	180	GLU	N-CA-C	7.90	120.88	111.33
1	aw	230	VAL	CA-C-O	7.90	125.92	119.29
1	ca	201	ILE	CB-CA-C	-7.90	101.48	112.14
1	cd	183	ASN	OD1-CG-ND2	-7.90	114.70	122.60
1	du	18	ARG	CA-C-N	7.90	130.86	120.28
1	du	18	ARG	C-N-CA	7.90	130.86	120.28
1	gC	205	LEU	N-CA-C	7.89	119.88	111.28
1	h8	106	GLY	CA-C-N	7.89	131.19	120.38
1	h8	106	GLY	C-N-CA	7.89	131.19	120.38
1	hL	21	ASN	CA-CB-CG	7.89	120.49	112.60
1	hM	142	VAL	CA-C-O	7.89	129.48	121.27
1	hQ	74	ASN	N-CA-C	7.89	119.89	111.28
1	jn	139	ASN	OD1-CG-ND2	-7.89	114.70	122.60
1	jA	215	MET	N-CA-C	7.89	122.95	113.16
1	jM	163	ASP	CA-CB-CG	7.89	120.50	112.60
1	jQ	141	ILE	CA-C-O	7.89	129.54	121.17
1	5x	165	VAL	N-CA-C	7.89	120.92	111.05
1	6Q	230	VAL	N-CA-C	7.89	120.03	109.37
1	6T	140	LYS	N-CA-C	7.89	119.97	111.36
1	a7	5	ASN	CA-C-O	7.89	128.30	118.43
1	aj	103	ASP	CA-CB-CG	-7.89	104.70	112.60
1	aT	174	ALA	N-CA-C	7.89	122.17	112.54
1	bR	223	GLY	CA-C-N	7.89	129.71	119.84
1	bR	223	GLY	C-N-CA	7.89	129.71	119.84
1	c7	115	ILE	CA-C-N	7.89	128.69	120.00
1	c7	115	ILE	C-N-CA	7.89	128.69	120.00
1	d7	27	VAL	O-C-N	-7.89	114.17	121.91
1	dc	185	MET	CA-C-O	-7.89	112.18	120.55
1	dp	38	PRO	CA-C-N	7.89	130.86	120.28
1	dp	38	PRO	C-N-CA	7.89	130.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dJ	104	ILE	CA-C-O	7.89	129.48	121.27
1	dP	84	HIS	CG-CD2-NE2	7.89	115.09	107.20
1	fy	199	LYS	N-CA-C	7.89	119.88	111.28
1	hB	10	MET	CA-C-N	7.89	132.98	123.19
1	hB	10	MET	C-N-CA	7.89	132.98	123.19
1	1O	141	ILE	CA-C-N	7.89	131.66	120.53
1	1O	141	ILE	C-N-CA	7.89	131.66	120.53
1	j8	210	THR	N-CA-CB	7.89	121.77	109.69
1	k3	220	GLY	N-CA-C	7.89	120.05	112.08
1	ke	133	TRP	N-CA-CB	7.89	121.72	110.12
1	km	228	ALA	O-C-N	-7.89	113.11	122.58
1	kE	14	ALA	N-CA-C	7.89	121.67	110.23
1	lq	116	GLY	N-CA-C	7.89	122.19	112.64
1	2N	62	HIS	ND1-CG-CD2	7.89	113.99	106.10
1	2Y	167	ARG	CA-C-N	7.89	131.50	120.29
1	2Y	167	ARG	C-N-CA	7.89	131.50	120.29
1	3J	89	GLY	CA-C-N	7.89	127.95	119.90
1	3J	89	GLY	C-N-CA	7.89	127.95	119.90
1	3J	195	ASN	CA-C-N	7.89	129.71	119.84
1	3J	195	ASN	C-N-CA	7.89	129.71	119.84
1	3Y	214	MET	CA-C-O	7.89	128.92	120.55
1	4M	100	ARG	NE-CZ-NH1	7.89	129.39	121.50
1	6m	33	SER	CA-C-N	7.89	128.63	119.47
1	6m	33	SER	C-N-CA	7.89	128.63	119.47
1	6F	35	GLU	CA-C-N	7.89	130.50	120.56
1	6F	35	GLU	C-N-CA	7.89	130.50	120.56
1	7z	70	LYS	CA-C-N	7.89	131.19	120.38
1	7z	70	LYS	C-N-CA	7.89	131.19	120.38
1	9i	52	LEU	CA-C-O	7.89	128.92	120.55
1	9N	92	GLU	CA-C-O	-7.89	111.02	118.44
1	9O	11	VAL	CA-C-N	7.89	131.92	120.71
1	9O	11	VAL	C-N-CA	7.89	131.92	120.71
1	a9	166	ASP	CA-C-O	7.89	128.83	120.70
1	aw	33	SER	CA-C-O	-7.89	112.11	119.76
1	dv	74	ASN	O-C-N	-7.89	113.15	122.15
1	dv	141	ILE	N-CA-C	7.89	118.00	110.42
1	eg	119	THR	CA-C-O	7.89	128.57	119.18
1	ft	150	ILE	O-C-N	-7.89	113.06	122.06
1	x	131	LYS	CA-C-O	-7.89	112.18	120.55
1	G	87	HIS	O-C-N	-7.89	112.76	122.55
1	go	129	ILE	CA-C-N	7.89	131.50	120.29
1	go	129	ILE	C-N-CA	7.89	131.50	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iE	219	GLN	CA-C-N	7.89	128.68	120.00
1	iE	219	GLN	C-N-CA	7.89	128.68	120.00
1	jc	120	HIS	CA-CB-CG	-7.89	105.91	113.80
1	20	87	HIS	CE1-NE2-CD2	-7.89	101.11	109.00
1	kP	75	GLU	N-CA-C	7.89	119.51	111.07
1	kU	20	LEU	CA-C-N	7.89	130.70	120.44
1	kU	20	LEU	C-N-CA	7.89	130.70	120.44
1	2L	57	ASN	O-C-N	-7.89	111.20	122.41
1	bM	154	ARG	NE-CZ-NH2	-7.89	112.10	119.20
1	cQ	68	MET	CA-C-N	7.89	131.19	120.54
1	cQ	68	MET	C-N-CA	7.89	131.19	120.54
1	dh	62	HIS	CA-C-N	7.89	130.85	120.28
1	dh	62	HIS	C-N-CA	7.89	130.85	120.28
1	e0	173	ARG	N-CA-C	7.89	119.96	111.36
1	eR	140	LYS	CA-C-N	7.89	130.50	120.56
1	eR	140	LYS	C-N-CA	7.89	130.50	120.56
1	1z	73	ILE	N-CA-C	7.89	118.67	110.62
1	hP	28	GLU	CA-C-O	-7.89	112.46	120.90
1	hR	138	LEU	CA-C-N	7.89	131.19	120.38
1	hR	138	LEU	C-N-CA	7.89	131.19	120.38
1	ib	67	GLN	N-CA-C	7.89	120.78	111.71
1	iA	169	TYR	N-CA-C	7.89	119.88	111.28
1	jP	63	GLN	O-C-N	-7.89	113.16	122.15
1	jQ	165	VAL	CA-C-N	7.89	130.70	120.44
1	jQ	165	VAL	C-N-CA	7.89	130.70	120.44
1	k6	72	THR	N-CA-C	7.89	119.51	111.07
1	ks	162	ARG	NH1-CZ-NH2	-7.89	109.05	119.30
1	le	161	PHE	CA-C-O	7.89	128.78	120.42
1	48	86	VAL	N-CA-C	-7.89	96.03	108.81
1	4u	80	TRP	O-C-N	-7.89	113.76	122.12
1	4E	212	GLU	N-CA-C	7.89	120.88	111.33
1	4M	100	ARG	NE-CZ-NH2	-7.89	112.10	119.20
1	4Y	9	GLN	OE1-CD-NE2	-7.89	114.71	122.60
1	5g	48	THR	N-CA-CB	7.89	118.71	109.72
1	5q	212	GLU	N-CA-C	7.89	119.88	111.28
1	6c	75	GLU	CA-C-O	-7.89	112.54	120.82
1	7g	193	ASN	CA-C-O	7.89	129.09	119.31
1	7U	223	GLY	O-C-N	-7.89	113.88	121.77
1	8E	64	ALA	CA-C-N	7.89	130.70	120.44
1	8E	64	ALA	C-N-CA	7.89	130.70	120.44
1	99	160	PRO	N-CA-CB	7.89	111.53	103.25
1	9s	19	THR	N-CA-C	7.89	120.88	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	131	LYS	CA-C-N	7.89	130.70	120.44
1	cd	131	LYS	C-N-CA	7.89	130.70	120.44
1	1h	16	SER	CA-C-O	-7.89	112.85	120.19
1	ed	114	GLN	N-CA-C	7.89	120.64	111.02
1	ek	199	LYS	N-CA-C	7.89	120.58	111.11
1	o	223	GLY	N-CA-C	7.89	121.47	112.00
1	gx	69	LEU	O-C-N	-7.89	113.94	122.07
1	j8	136	LEU	O-C-N	-7.89	112.99	122.22
1	2i	21	ASN	OD1-CG-ND2	-7.89	114.71	122.60
1	2u	198	CYS	N-CA-CB	7.89	121.89	110.06
1	3Q	13	GLN	CA-C-N	7.89	132.33	121.05
1	3Q	13	GLN	C-N-CA	7.89	132.33	121.05
1	ax	34	PRO	CA-C-N	7.89	130.85	120.28
1	ax	34	PRO	C-N-CA	7.89	130.85	120.28
1	dD	80	TRP	N-CA-C	7.89	120.58	111.11
1	t	139	ASN	N-CA-C	7.89	119.51	111.07
1	jB	121	ASN	O-C-N	-7.89	111.40	121.10
1	jD	26	VAL	CA-C-N	7.89	130.34	120.72
1	jD	26	VAL	C-N-CA	7.89	130.34	120.72
1	jU	201	ILE	CA-C-N	7.89	130.69	120.44
1	jU	201	ILE	C-N-CA	7.89	130.69	120.44
1	22	129	ILE	N-CA-C	7.89	117.99	110.42
1	kE	66	MET	N-CA-C	7.89	120.87	111.33
1	3i	191	VAL	N-CA-C	7.89	118.47	110.82
1	51	59	VAL	O-C-N	-7.89	114.63	122.67
1	6L	134	ILE	N-CA-C	7.89	118.64	110.36
1	99	101	GLY	O-C-N	-7.89	114.61	122.18
1	9v	193	ASN	CA-CB-CG	-7.89	104.71	112.60
1	b7	201	ILE	O-C-N	-7.89	114.18	121.91
1	cn	152	ASP	CA-CB-CG	7.89	120.49	112.60
1	cv	146	SER	N-CA-C	7.89	119.66	109.64
1	fg	132	ARG	NE-CZ-NH1	7.89	129.39	121.50
1	s	30	LYS	O-C-N	7.89	132.20	122.34
1	A	135	ILE	N-CA-C	7.89	119.61	110.62
1	gN	16	SER	O-C-N	-7.88	110.92	121.64
1	hm	19	THR	CA-C-O	-7.88	112.54	120.82
1	jp	135	ILE	CB-CA-C	7.88	122.78	112.14
1	kT	225	GLY	CA-C-N	7.88	132.65	120.82
1	kT	225	GLY	C-N-CA	7.88	132.65	120.82
1	4d	36	VAL	N-CA-C	7.88	118.66	110.62
1	7t	23	TRP	N-CA-C	7.88	120.57	111.11
1	8i	37	ILE	CA-C-N	7.88	127.44	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8i	37	ILE	C-N-CA	7.88	127.44	118.85
1	8m	30	LYS	CB-CA-C	-7.88	96.83	109.13
1	8v	33	SER	CA-C-N	7.88	128.31	119.32
1	8v	33	SER	C-N-CA	7.88	128.31	119.32
1	9x	214	MET	O-C-N	-7.88	113.95	122.07
1	az	136	LEU	CA-C-O	7.88	129.10	120.82
1	aF	73	ILE	CA-C-N	7.88	131.18	120.38
1	aF	73	ILE	C-N-CA	7.88	131.18	120.38
1	aM	42	ALA	N-CA-C	7.88	119.87	111.28
1	eK	8	GLY	CA-C-N	7.88	132.02	120.90
1	eK	8	GLY	C-N-CA	7.88	132.02	120.90
1	eM	29	GLU	N-CA-C	7.88	119.51	111.07
1	eT	143	ARG	CA-C-N	7.88	130.84	120.28
1	eT	143	ARG	C-N-CA	7.88	130.84	120.28
1	fT	57	ASN	CA-C-N	7.88	130.84	120.28
1	fT	57	ASN	C-N-CA	7.88	130.84	120.28
1	N	167	ARG	N-CA-C	7.88	119.51	111.07
1	gX	121	ASN	CA-CB-CG	7.88	120.48	112.60
1	h3	53	ASN	CA-CB-CG	7.88	120.48	112.60
1	j9	110	THR	CA-C-O	-7.88	112.22	121.44
1	36	36	VAL	CA-C-N	7.88	126.64	120.33
1	36	36	VAL	C-N-CA	7.88	126.64	120.33
1	4G	55	MET	CA-C-N	7.88	130.84	120.28
1	4G	55	MET	C-N-CA	7.88	130.84	120.28
1	5o	130	TYR	CA-C-N	7.88	130.84	120.28
1	5o	130	TYR	C-N-CA	7.88	130.84	120.28
1	b0	226	HIS	N-CA-C	7.88	121.27	108.34
1	c0	226	HIS	N-CA-C	7.88	119.95	111.36
1	cc	201	ILE	CA-C-N	7.88	131.89	120.38
1	cc	201	ILE	C-N-CA	7.88	131.89	120.38
1	cP	50	GLN	CA-C-O	-7.88	112.19	120.55
1	da	18	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	fN	149	SER	N-CA-CB	7.88	123.81	110.49
1	g4	165	VAL	CA-C-N	7.88	131.16	120.44
1	g4	165	VAL	C-N-CA	7.88	131.16	120.44
1	gt	203	LYS	CA-C-N	7.88	130.69	120.44
1	gt	203	LYS	C-N-CA	7.88	130.69	120.44
1	1E	6	LEU	N-CA-CB	7.88	123.81	110.49
1	gK	199	LYS	CA-C-N	7.88	131.48	120.29
1	gK	199	LYS	C-N-CA	7.88	131.48	120.29
1	hK	114	GLN	OE1-CD-NE2	-7.88	114.72	122.60
1	i7	44	SER	N-CA-C	7.88	122.48	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	id	22	ALA	CA-C-O	7.88	128.77	120.42
1	jy	171	THR	O-C-N	-7.88	113.95	122.07
1	kG	12	HIS	N-CA-C	7.88	121.66	110.23
1	l1	167	ARG	CA-C-N	7.88	130.84	120.28
1	l1	167	ARG	C-N-CA	7.88	130.84	120.28
1	2m	168	PHE	CA-CB-CG	-7.88	105.92	113.80
1	2v	204	ALA	CB-CA-C	-7.88	98.45	110.90
1	2H	226	HIS	CG-CD2-NE2	7.88	115.08	107.20
1	2Y	187	GLU	N-CA-C	7.88	119.50	111.07
1	3b	185	MET	N-CA-C	7.88	119.87	111.28
1	3A	143	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	4T	161	PHE	N-CA-C	7.88	120.87	111.33
1	5a	10	MET	N-CA-C	7.88	121.66	110.23
1	6r	153	ILE	N-CA-CB	7.88	119.57	110.82
1	7y	22	ALA	N-CA-C	7.88	119.87	111.28
1	7W	190	LEU	CA-C-N	7.88	131.26	120.46
1	7W	190	LEU	C-N-CA	7.88	131.26	120.46
1	8U	166	ASP	CA-CB-CG	7.88	120.48	112.60
1	9i	193	ASN	CA-CB-CG	-7.88	104.72	112.60
1	dx	161	PHE	CA-CB-CG	7.88	121.68	113.80
1	dY	63	GLN	OE1-CD-NE2	-7.88	114.72	122.60
1	1o	29	GLU	N-CA-C	7.88	119.87	111.28
1	eM	95	GLN	N-CA-C	7.88	121.70	109.96
1	eP	166	ASP	CA-CB-CG	7.88	120.48	112.60
1	fK	106	GLY	CA-C-N	7.88	131.16	120.44
1	fK	106	GLY	C-N-CA	7.88	131.16	120.44
1	g4	13	GLN	O-C-N	-7.88	112.91	123.15
1	F	103	ASP	CA-CB-CG	7.88	120.48	112.60
1	gp	195	ASN	CA-C-N	7.88	129.69	119.84
1	gp	195	ASN	C-N-CA	7.88	129.69	119.84
1	hj	25	LYS	N-CA-C	7.88	119.87	111.28
1	jG	164	TYR	N-CA-C	7.88	120.86	111.33
1	lg	222	GLY	O-C-N	-7.88	115.28	122.77
1	3d	157	PRO	CA-C-N	7.88	136.59	121.54
1	3d	157	PRO	C-N-CA	7.88	136.59	121.54
1	3M	130	TYR	N-CA-C	7.88	119.50	111.07
1	6x	3	VAL	O-C-N	-7.88	114.28	123.03
1	7R	104	ILE	O-C-N	-7.88	114.23	121.87
1	84	217	ALA	CA-C-O	-7.88	112.93	121.44
1	9V	37	ILE	CA-C-O	-7.88	113.41	118.69
1	ay	229	ARG	NH1-CZ-NH2	-7.88	109.06	119.30
1	az	167	ARG	NE-CZ-NH2	-7.88	112.11	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aU	98	GLU	N-CA-C	7.88	119.84	109.83
1	bx	10	MET	N-CA-C	7.88	122.55	111.52
1	cc	34	PRO	CA-C-N	7.88	131.48	120.29
1	cc	34	PRO	C-N-CA	7.88	131.48	120.29
1	cl	179	GLN	N-CA-C	7.88	120.57	111.11
1	1k	97	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	eU	21	ASN	OD1-CG-ND2	-7.88	114.72	122.60
1	eW	100	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	g4	20	LEU	N-CA-C	7.88	119.87	111.28
1	gq	184	TRP	CA-C-N	7.88	130.84	120.28
1	gq	184	TRP	C-N-CA	7.88	130.84	120.28
1	gX	56	LEU	N-CA-C	7.88	119.87	111.28
1	ie	39	MET	CA-C-O	7.88	128.90	120.55
1	iI	16	SER	N-CA-C	7.88	119.26	109.57
1	1V	97	ARG	CA-C-O	7.88	129.95	121.44
1	2e	16	SER	CA-C-O	-7.88	110.50	119.32
1	2F	87	HIS	CA-CB-CG	-7.88	105.92	113.80
1	2I	159	GLU	CA-C-O	-7.88	113.39	119.46
1	38	131	LYS	O-C-N	-7.88	113.77	122.12
1	3H	61	GLY	CA-C-N	7.88	133.34	122.07
1	3H	61	GLY	C-N-CA	7.88	133.34	122.07
1	3I	8	GLY	O-C-N	-7.88	114.68	123.58
1	42	33	SER	CA-C-O	-7.88	113.09	120.34
1	5l	169	TYR	CA-C-O	7.88	128.90	120.55
1	5E	132	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	7i	173	ARG	N-CA-C	7.88	119.87	111.28
1	89	92	GLU	O-C-N	-7.88	113.47	120.48
1	8i	37	ILE	O-C-N	-7.88	115.38	120.42
1	8R	197	ASP	CA-C-N	7.88	130.68	120.44
1	8R	197	ASP	C-N-CA	7.88	130.68	120.44
1	aP	184	TRP	O-C-N	-7.88	113.77	122.12
1	aP	228	ALA	N-CA-C	7.88	121.17	109.59
1	aZ	63	GLN	N-CA-C	7.88	119.87	111.28
1	ba	36	VAL	CA-C-N	7.88	126.63	120.33
1	ba	36	VAL	C-N-CA	7.88	126.63	120.33
1	ct	144	MET	N-CA-C	7.88	119.87	111.28
1	cO	45	GLU	N-CA-C	7.88	121.65	110.23
1	dV	114	GLN	CA-C-N	7.88	130.49	120.56
1	dV	114	GLN	C-N-CA	7.88	130.49	120.56
1	fw	54	THR	N-CA-C	7.88	119.50	111.07
1	fE	173	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	1A	123	PRO	CA-C-N	7.88	131.83	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	123	PRO	C-N-CA	7.88	131.83	122.85
1	B	81	ASP	CA-CB-CG	-7.88	104.72	112.60
1	J	132	ARG	NE-CZ-NH2	-7.88	112.11	119.20
1	ha	216	THR	CA-C-O	7.88	129.03	119.97
1	hs	5	ASN	CA-CB-CG	7.88	120.48	112.60
1	hz	28	GLU	N-CA-C	7.88	119.95	111.36
1	i5	117	TRP	N-CA-C	7.88	119.50	111.07
1	jk	72	THR	CA-C-N	7.88	131.25	120.46
1	jk	72	THR	C-N-CA	7.88	131.25	120.46
1	jM	223	GLY	CA-C-N	7.88	129.69	119.84
1	jM	223	GLY	C-N-CA	7.88	129.69	119.84
1	2B	132	ARG	NE-CZ-NH2	-7.88	112.11	119.20
1	2Q	103	ASP	O-C-N	-7.88	113.77	122.12
1	3g	67	GLN	N-CA-C	7.88	119.50	111.07
1	44	141	ILE	CA-C-N	7.88	130.48	120.56
1	44	141	ILE	C-N-CA	7.88	130.48	120.56
1	4Q	28	GLU	N-CA-C	7.88	119.86	111.28
1	5M	50	GLN	OE1-CD-NE2	-7.88	114.72	122.60
1	5O	135	ILE	N-CA-CB	7.88	119.77	110.55
1	5T	79	GLU	CA-C-N	7.88	131.47	120.29
1	5T	79	GLU	C-N-CA	7.88	131.47	120.29
1	6t	104	ILE	N-CA-CB	7.88	120.65	110.57
1	6w	55	MET	N-CA-C	7.88	119.87	111.28
1	6H	229	ARG	N-CA-C	7.88	119.87	111.28
1	78	192	GLN	OE1-CD-NE2	-7.88	114.72	122.60
1	7H	113	GLU	CA-C-O	7.88	128.90	120.55
1	8h	214	MET	N-CA-C	7.88	120.86	111.33
1	8H	212	GLU	N-CA-C	7.88	119.86	111.28
1	8P	103	ASP	CA-C-N	7.88	131.25	120.46
1	8P	103	ASP	C-N-CA	7.88	131.25	120.46
1	9c	88	ALA	CA-C-N	7.88	134.24	121.87
1	9c	88	ALA	C-N-CA	7.88	134.24	121.87
1	9d	165	VAL	CA-C-O	7.88	129.14	120.95
1	bv	37	ILE	N-CA-CB	7.88	116.59	110.45
1	bU	77	ALA	CA-C-N	7.88	130.83	120.28
1	bU	77	ALA	C-N-CA	7.88	130.83	120.28
1	dk	98	GLU	N-CA-C	7.88	119.64	109.64
1	dk	143	ARG	N-CA-CB	7.88	121.70	110.12
1	dB	64	ALA	N-CA-C	7.88	119.95	111.36
1	fp	194	ALA	CA-C-N	7.88	131.68	120.49
1	fp	194	ALA	C-N-CA	7.88	131.68	120.49
1	ft	22	ALA	O-C-N	-7.88	113.96	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	157	PRO	N-CA-C	7.88	126.54	113.78
1	9	185	MET	CA-C-N	7.88	130.84	120.28
1	9	185	MET	C-N-CA	7.88	130.84	120.28
1	h9	179	GLN	CA-C-N	7.88	130.83	120.28
1	h9	179	GLN	C-N-CA	7.88	130.83	120.28
1	j5	143	ARG	N-CA-CB	7.88	121.70	110.12
1	jA	153	ILE	N-CA-C	7.88	119.14	109.30
1	km	189	LEU	CA-C-N	7.88	130.68	120.44
1	km	189	LEU	C-N-CA	7.88	130.68	120.44
1	3s	79	GLU	N-CA-C	7.88	119.86	111.28
1	3t	104	ILE	O-C-N	-7.88	114.17	121.89
1	6l	101	GLY	CA-C-N	7.88	130.83	120.28
1	6l	101	GLY	C-N-CA	7.88	130.83	120.28
1	7C	51	ASP	CA-CB-CG	-7.88	104.72	112.60
1	80	54	THR	N-CA-C	7.88	119.94	111.36
1	8r	167	ARG	NE-CZ-NH1	7.88	129.38	121.50
1	10	126	VAL	O-C-N	-7.88	114.06	121.94
1	at	59	VAL	N-CA-C	7.88	120.00	109.37
1	d5	138	LEU	N-CA-C	7.88	119.86	111.28
1	1q	125	PRO	CA-C-N	7.88	131.09	120.77
1	1q	125	PRO	C-N-CA	7.88	131.09	120.77
1	eM	95	GLN	O-C-N	-7.88	112.54	123.01
1	h	122	PRO	CA-C-N	7.88	127.93	119.90
1	h	122	PRO	C-N-CA	7.88	127.93	119.90
1	C	125	PRO	CA-C-N	7.88	132.91	120.47
1	C	125	PRO	C-N-CA	7.88	132.91	120.47
1	gC	48	THR	N-CA-CB	7.87	119.78	109.55
1	1M	117	TRP	N-CA-C	7.87	119.94	111.36
1	if	14	ALA	N-CA-C	7.87	121.34	110.24
1	ix	169	TYR	N-CA-C	7.87	119.86	111.28
1	j1	191	VAL	N-CA-C	-7.87	104.13	111.45
1	jn	178	SER	N-CA-C	7.87	120.49	110.33
1	lx	23	TRP	N-CA-C	7.87	119.50	111.07
1	2c	195	ASN	CA-C-O	7.87	126.44	119.59
1	4s	104	ILE	CA-C-O	-7.87	112.82	121.17
1	67	124	ILE	O-C-N	-7.87	115.96	121.55
1	7t	89	GLY	O-C-N	-7.87	113.90	121.77
1	8a	140	LYS	CA-C-O	7.87	129.09	120.82
1	9S	213	GLU	N-CA-C	7.87	119.50	111.07
1	bl	35	GLU	CA-C-N	7.87	133.21	120.30
1	bl	35	GLU	C-N-CA	7.87	133.21	120.30
1	c5	104	ILE	CA-C-O	7.87	129.14	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	127	GLY	CA-C-N	7.87	130.83	120.28
1	cj	127	GLY	C-N-CA	7.87	130.83	120.28
1	cQ	28	GLU	N-CA-C	7.87	119.86	111.28
1	cW	181	VAL	N-CA-C	7.87	117.98	110.42
1	e8	179	GLN	CA-C-N	7.87	130.68	120.44
1	e8	179	GLN	C-N-CA	7.87	130.68	120.44
1	ec	212	GLU	N-CA-C	7.87	119.86	111.28
1	eZ	29	GLU	CA-C-O	7.87	128.77	120.42
1	f1	195	ASN	CA-CB-CG	-7.87	104.73	112.60
1	fl	227	LYS	CA-C-N	7.87	131.89	120.71
1	fl	227	LYS	C-N-CA	7.87	131.89	120.71
1	ft	92	GLU	CA-C-N	7.87	129.68	119.84
1	ft	92	GLU	C-N-CA	7.87	129.68	119.84
1	fy	37	ILE	CA-C-O	-7.87	113.42	118.69
1	fD	119	THR	N-CA-CB	7.87	122.49	110.44
1	1D	188	THR	CA-C-O	7.87	125.27	119.68
1	gM	119	THR	N-CA-C	-7.87	103.40	113.16
1	h0	102	SER	CA-C-N	7.87	130.83	120.28
1	h0	102	SER	C-N-CA	7.87	130.83	120.28
1	ho	213	GLU	N-CA-C	7.87	119.49	111.07
1	1T	53	ASN	CA-C-N	7.87	130.83	120.28
1	1T	53	ASN	C-N-CA	7.87	130.83	120.28
1	jy	216	THR	N-CA-C	7.87	119.64	111.14
1	k3	191	VAL	CA-C-N	7.87	131.17	120.54
1	k3	191	VAL	C-N-CA	7.87	131.17	120.54
1	k7	17	PRO	CA-C-N	7.87	130.67	120.44
1	k7	17	PRO	C-N-CA	7.87	130.67	120.44
1	kr	173	ARG	NE-CZ-NH2	-7.87	112.11	119.20
1	lL	124	ILE	O-C-N	-7.87	114.45	121.61
1	2L	75	GLU	N-CA-C	7.87	120.56	111.11
1	3c	144	MET	N-CA-C	7.87	119.94	111.36
1	3i	126	VAL	N-CA-C	7.87	119.59	110.62
1	3V	63	GLN	CA-C-N	7.87	130.67	120.44
1	3V	63	GLN	C-N-CA	7.87	130.67	120.44
1	4k	25	LYS	N-CA-C	7.87	119.86	111.28
1	6p	64	ALA	CA-C-N	7.87	131.47	120.29
1	6p	64	ALA	C-N-CA	7.87	131.47	120.29
1	7M	71	GLU	CB-CA-C	-7.87	98.52	110.88
1	8s	33	SER	O-C-N	-7.87	113.94	121.57
1	8E	103	ASP	CA-C-N	7.87	131.25	120.46
1	8E	103	ASP	C-N-CA	7.87	131.25	120.46
1	9y	84	HIS	ND1-CE1-NE2	7.87	116.27	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9K	159	GLU	CA-C-N	7.87	127.93	119.90
1	9K	159	GLU	C-N-CA	7.87	127.93	119.90
1	aK	178	SER	CA-C-O	-7.87	113.20	121.55
1	b2	99	PRO	O-C-N	-7.87	113.96	123.01
1	bK	42	ALA	CA-C-N	7.87	130.83	120.28
1	bK	42	ALA	C-N-CA	7.87	130.83	120.28
1	cU	226	HIS	CE1-NE2-CD2	-7.87	101.13	109.00
1	d9	173	ARG	NE-CZ-NH1	7.87	129.37	121.50
1	dk	18	ARG	NE-CZ-NH1	7.87	129.37	121.50
1	f6	210	THR	N-CA-CB	7.87	121.50	110.17
1	f9	167	ARG	CA-C-N	7.87	131.16	120.38
1	f9	167	ARG	C-N-CA	7.87	131.16	120.38
1	1v	225	GLY	N-CA-C	-7.87	103.34	112.79
1	s	150	ILE	O-C-N	-7.87	114.23	121.87
1	v	170	LYS	O-C-N	-7.87	113.96	122.07
1	C	85	PRO	N-CA-CB	7.87	110.20	103.35
1	gS	133	TRP	O-C-N	-7.87	113.59	122.09
1	iz	23	TRP	N-CA-C	7.87	120.55	111.11
1	jP	32	PHE	CA-CB-CG	7.87	121.67	113.80
1	3H	150	ILE	CA-CB-CG1	7.87	123.78	110.40
1	3K	143	ARG	NE-CZ-NH2	-7.87	112.12	119.20
1	4X	28	GLU	N-CA-C	7.87	119.86	111.28
1	8z	18	ARG	NE-CZ-NH2	-7.87	112.12	119.20
1	ai	101	GLY	CA-C-N	7.87	131.61	120.28
1	ai	101	GLY	C-N-CA	7.87	131.61	120.28
1	aM	133	TRP	CB-CG-CD2	-7.87	115.78	126.80
1	by	74	ASN	N-CA-C	7.87	119.49	111.07
1	cc	189	LEU	CA-C-O	7.87	128.76	120.42
1	dz	124	ILE	O-C-N	-7.87	114.33	121.41
1	dL	97	ARG	NE-CZ-NH2	-7.87	112.12	119.20
1	e0	162	ARG	NE-CZ-NH1	7.87	129.37	121.50
1	eW	65	ALA	CA-C-N	7.87	131.47	120.29
1	eW	65	ALA	C-N-CA	7.87	131.47	120.29
1	fR	221	VAL	N-CA-C	-7.87	105.34	112.90
1	h9	205	LEU	N-CA-CB	-7.87	98.55	110.12
1	hO	79	GLU	N-CA-C	7.87	119.49	111.07
1	il	3	VAL	CA-CB-CG1	7.87	123.78	110.40
1	iu	87	HIS	CA-CB-CG	7.87	121.67	113.80
1	iA	78	ALA	CA-C-N	7.87	130.82	120.28
1	iA	78	ALA	C-N-CA	7.87	130.82	120.28
1	iW	10	MET	N-CA-C	7.87	120.95	111.82
1	ja	114	GLN	N-CA-C	7.87	119.94	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jK	57	ASN	OD1-CG-ND2	-7.87	114.73	122.60
1	jV	3	VAL	N-CA-CB	-7.87	101.76	111.67
1	k5	193	ASN	CA-C-N	7.87	132.63	120.75
1	k5	193	ASN	C-N-CA	7.87	132.63	120.75
1	2Z	190	LEU	N-CA-C	7.87	119.49	111.07
1	3S	39	MET	O-C-N	-7.87	113.97	122.07
1	4L	166	ASP	N-CA-C	-7.87	102.64	111.14
1	5y	152	ASP	CA-CB-CG	7.87	120.47	112.60
1	5O	36	VAL	CA-C-N	7.87	126.62	120.33
1	5O	36	VAL	C-N-CA	7.87	126.62	120.33
1	5S	180	GLU	N-CA-C	7.87	120.85	111.33
1	5V	89	GLY	CA-C-N	7.87	128.92	120.11
1	5V	89	GLY	C-N-CA	7.87	128.92	120.11
1	6n	87	HIS	CA-CB-CG	7.87	121.67	113.80
1	6W	170	LYS	N-CA-CB	-7.87	98.52	110.16
1	7k	68	MET	CA-C-N	7.87	131.16	120.54
1	7k	68	MET	C-N-CA	7.87	131.16	120.54
1	7t	139	ASN	O-C-N	-7.87	113.18	122.15
1	8j	21	ASN	N-CA-C	7.87	119.49	111.07
1	8x	33	SER	CA-C-N	7.87	127.78	119.05
1	8x	33	SER	C-N-CA	7.87	127.78	119.05
1	9z	181	VAL	N-CA-C	7.87	117.93	110.53
1	a4	51	ASP	N-CA-CB	7.87	121.48	110.07
1	aI	128	GLU	O-C-N	-7.87	113.91	122.09
1	aL	218	CYS	N-CA-C	7.87	122.25	111.39
1	bu	45	GLU	N-CA-C	7.87	121.22	108.63
1	bV	53	ASN	OD1-CG-ND2	-7.87	114.73	122.60
1	cT	32	PHE	CA-CB-CG	-7.87	105.93	113.80
1	dc	181	VAL	CA-C-N	7.87	130.67	120.44
1	dc	181	VAL	C-N-CA	7.87	130.67	120.44
1	fh	76	GLU	CA-C-N	7.87	130.82	120.28
1	fh	76	GLU	C-N-CA	7.87	130.82	120.28
1	7	220	GLY	O-C-N	7.87	130.56	122.54
1	jI	111	LEU	N-CA-C	7.87	124.35	111.37
1	lI	165	VAL	N-CA-CB	7.87	122.38	110.58
1	3E	210	THR	CA-C-N	7.87	130.82	120.28
1	3E	210	THR	C-N-CA	7.87	130.82	120.28
1	5g	68	MET	CA-C-O	7.87	128.89	120.55
1	5B	82	ARG	NE-CZ-NH2	-7.87	112.12	119.20
1	9r	24	VAL	N-CA-C	7.87	117.97	110.42
1	12	36	VAL	CA-C-N	7.87	125.20	120.24
1	12	36	VAL	C-N-CA	7.87	125.20	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	186	THR	N-CA-C	7.87	119.49	111.07
1	gL	121	ASN	CB-CA-C	7.87	119.19	110.15
1	hf	110	THR	CA-C-N	7.87	131.16	120.38
1	hf	110	THR	C-N-CA	7.87	131.16	120.38
1	hF	173	ARG	N-CA-C	7.87	119.85	111.28
1	ib	35	GLU	N-CA-C	7.87	120.75	111.71
1	jo	100	ARG	O-C-N	-7.87	113.88	122.85
1	jJ	144	MET	N-CA-C	7.87	119.85	111.28
1	kk	75	GLU	N-CA-C	7.87	119.85	111.28
1	3u	190	LEU	N-CA-C	7.87	119.85	111.28
1	4j	89	GLY	CA-C-N	7.87	129.67	119.84
1	4j	89	GLY	C-N-CA	7.87	129.67	119.84
1	4U	228	ALA	O-C-N	-7.87	113.18	122.15
1	4X	139	ASN	CA-CB-CG	7.87	120.47	112.60
1	4Z	62	HIS	O-C-N	-7.87	113.14	122.58
1	5P	11	VAL	O-C-N	-7.87	114.77	123.26
1	6j	154	ARG	NE-CZ-NH1	7.87	129.37	121.50
1	6R	120	HIS	CA-CB-CG	7.87	121.67	113.80
1	71	92	GLU	O-C-N	-7.87	116.68	121.71
1	7q	207	PRO	N-CA-C	7.87	123.62	111.11
1	7H	15	ILE	N-CA-C	7.87	119.99	109.37
1	8s	184	TRP	CA-C-O	7.87	129.08	120.82
1	br	36	VAL	CA-C-N	7.87	126.62	120.33
1	br	36	VAL	C-N-CA	7.87	126.62	120.33
1	dy	207	PRO	CA-C-N	7.87	133.53	122.36
1	dy	207	PRO	C-N-CA	7.87	133.53	122.36
1	1m	128	GLU	CA-C-N	7.87	131.24	120.46
1	1m	128	GLU	C-N-CA	7.87	131.24	120.46
1	fz	113	GLU	N-CA-C	7.87	119.64	111.14
1	fM	47	ALA	O-C-N	-7.87	113.84	123.04
1	k	143	ARG	CA-C-N	7.87	130.66	120.44
1	k	143	ARG	C-N-CA	7.87	130.66	120.44
1	q	62	HIS	CE1-NE2-CD2	-7.87	101.14	109.00
1	h8	96	MET	O-C-N	-7.86	113.14	122.81
1	hm	25	LYS	N-CA-C	7.86	119.85	111.28
1	hu	43	LEU	N-CA-C	7.86	119.48	111.07
1	i0	219	GLN	O-C-N	-7.86	114.25	123.22
1	ir	55	MET	O-C-N	-7.86	113.78	122.12
1	j3	88	ALA	CA-C-O	-7.86	112.60	120.70
1	jq	82	ARG	CA-C-N	7.86	130.82	120.28
1	jq	82	ARG	C-N-CA	7.86	130.82	120.28
1	k5	195	ASN	CA-CB-CG	7.86	120.46	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2q	59	VAL	N-CA-C	7.86	117.97	110.42
1	2y	154	ARG	CA-C-O	7.86	130.31	121.11
1	3F	65	ALA	CA-C-N	7.86	130.82	120.28
1	3F	65	ALA	C-N-CA	7.86	130.82	120.28
1	43	16	SER	CA-C-O	-7.86	112.13	120.70
1	52	96	MET	CA-C-N	7.86	135.28	120.97
1	52	96	MET	C-N-CA	7.86	135.28	120.97
1	5j	7	GLN	OE1-CD-NE2	-7.86	114.74	122.60
1	5y	119	THR	CA-C-N	7.86	132.62	120.75
1	5y	119	THR	C-N-CA	7.86	132.62	120.75
1	6G	132	ARG	NE-CZ-NH2	-7.86	112.12	119.20
1	7h	21	ASN	CA-CB-CG	7.86	120.46	112.60
1	7x	37	ILE	O-C-N	-7.86	115.39	120.42
1	8g	120	HIS	CB-CG-CD2	7.86	141.42	131.20
1	9N	168	PHE	CA-CB-CG	7.86	121.66	113.80
1	bd	140	LYS	N-CA-C	7.86	119.85	111.28
1	bC	203	LYS	CA-C-O	-7.86	112.56	120.82
1	fp	67	GLN	O-C-N	-7.86	113.19	122.15
1	g6	156	GLY	CA-C-O	-7.86	110.28	121.52
1	H	135	ILE	CA-C-N	7.86	131.15	120.54
1	H	135	ILE	C-N-CA	7.86	131.15	120.54
1	1Q	184	TRP	CG-CD2-CE3	-7.86	126.04	133.90
1	jy	84	HIS	CG-CD2-NE2	7.86	115.06	107.20
1	lr	76	GLU	N-CA-C	7.86	119.48	111.07
1	lN	119	THR	N-CA-CB	7.86	122.41	110.70
1	2J	55	MET	O-C-N	-7.86	113.79	122.12
1	2O	192	GLN	OE1-CD-NE2	-7.86	114.74	122.60
1	36	210	THR	CA-CB-OG1	7.86	121.39	109.60
1	4H	62	HIS	ND1-CG-CD2	7.86	113.96	106.10
1	6c	106	GLY	CA-C-N	7.86	131.45	120.29
1	6c	106	GLY	C-N-CA	7.86	131.45	120.29
1	8x	143	ARG	CA-C-O	7.86	128.80	120.70
1	c2	173	ARG	NE-CZ-NH2	7.86	126.28	119.20
1	dS	95	GLN	N-CA-C	7.86	120.91	110.53
1	ey	43	LEU	N-CA-CB	-7.86	98.56	110.12
1	eZ	50	GLN	O-C-N	-7.86	113.97	122.07
1	fM	116	GLY	O-C-N	-7.86	114.63	122.18
1	q	119	THR	N-CA-CB	7.86	122.04	110.56
1	hr	189	LEU	CA-C-N	7.86	130.81	120.28
1	hr	189	LEU	C-N-CA	7.86	130.81	120.28
1	i9	197	ASP	CA-C-N	7.86	130.66	120.44
1	i9	197	ASP	C-N-CA	7.86	130.66	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iG	26	VAL	CA-C-O	-7.86	112.78	120.95
1	1R	49	PRO	CA-C-N	7.86	130.66	120.44
1	1R	49	PRO	C-N-CA	7.86	130.66	120.44
1	jX	144	MET	N-CA-C	7.86	120.54	111.11
1	k1	132	ARG	NE-CZ-NH2	-7.86	112.12	119.20
1	21	58	THR	N-CA-C	7.86	119.63	111.14
1	lw	152	ASP	N-CA-CB	-7.86	98.20	110.30
1	2l	46	GLY	O-C-N	-7.86	112.88	122.23
1	2u	171	THR	O-C-N	-7.86	113.79	122.12
1	2K	141	ILE	CA-C-N	7.86	130.74	120.60
1	2K	141	ILE	C-N-CA	7.86	130.74	120.60
1	3v	6	LEU	N-CA-C	7.86	122.09	111.24
1	3E	70	LYS	N-CA-C	7.86	119.48	111.07
1	3F	95	GLN	O-C-N	-7.86	113.22	123.13
1	4K	226	HIS	CE1-NE2-CD2	-7.86	101.14	109.00
1	6p	12	HIS	CA-CB-CG	-7.86	105.94	113.80
1	6Q	53	ASN	N-CA-C	7.86	119.85	111.28
1	7c	89	GLY	CA-C-N	7.86	127.91	119.89
1	7c	89	GLY	C-N-CA	7.86	127.91	119.89
1	8h	57	ASN	CA-CB-CG	7.86	120.46	112.60
1	8E	87	HIS	ND1-CE1-NE2	7.86	116.26	108.40
1	8G	189	LEU	N-CA-C	7.86	119.85	111.28
1	dg	144	MET	CA-C-O	7.86	129.07	120.82
1	1n	33	SER	CA-C-N	7.86	127.78	119.05
1	1n	33	SER	C-N-CA	7.86	127.78	119.05
1	eR	143	ARG	N-CA-C	7.86	120.61	111.02
1	fm	42	ALA	CA-C-N	7.86	130.81	120.28
1	fm	42	ALA	C-N-CA	7.86	130.81	120.28
1	fT	185	MET	CA-C-O	7.86	129.07	120.82
1	t	121	ASN	CA-CB-CG	7.86	120.46	112.60
1	R	103	ASP	CA-CB-CG	-7.86	104.74	112.60
1	hu	230	VAL	N-CA-C	7.86	118.65	108.12
1	iH	226	HIS	CB-CG-CD2	-7.86	120.98	131.20
1	lB	97	ARG	NE-CZ-NH1	7.86	129.36	121.50
1	lG	128	GLU	CA-C-N	7.86	131.23	120.46
1	lG	128	GLU	C-N-CA	7.86	131.23	120.46
1	3F	146	SER	CA-C-O	-7.86	113.46	121.32
1	7g	135	ILE	N-CA-C	7.86	118.61	110.36
1	7Z	169	TYR	N-CA-C	7.86	119.85	111.28
1	9j	63	GLN	N-CA-C	7.86	119.93	111.36
1	dC	92	GLU	O-C-N	-7.86	113.65	121.27
1	fW	178	SER	N-CA-C	7.86	121.04	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	229	ARG	CD-NE-CZ	7.86	135.40	124.40
1	jN	26	VAL	O-C-N	-7.86	114.08	121.94
1	lB	96	MET	CA-C-N	7.86	132.03	120.87
1	lB	96	MET	C-N-CA	7.86	132.03	120.87
1	lO	84	HIS	CA-C-N	7.86	129.66	119.84
1	lO	84	HIS	C-N-CA	7.86	129.66	119.84
1	2i	172	LEU	N-CA-C	7.86	119.84	111.28
1	4l	173	ARG	N-CA-C	7.86	119.84	111.28
1	4G	144	MET	N-CA-C	7.86	119.48	111.07
1	6s	195	ASN	CA-CB-CG	7.86	120.46	112.60
1	a2	84	HIS	CA-C-N	7.86	127.85	119.76
1	a2	84	HIS	C-N-CA	7.86	127.85	119.76
1	bV	56	LEU	O-C-N	-7.86	113.79	122.12
1	dF	186	THR	N-CA-C	7.86	119.48	111.07
1	ee	35	GLU	CA-C-N	7.86	130.74	120.60
1	ee	35	GLU	C-N-CA	7.86	130.74	120.60
1	eY	115	ILE	CA-C-N	7.86	128.70	119.98
1	eY	115	ILE	C-N-CA	7.86	128.70	119.98
1	f8	184	TRP	N-CA-C	7.86	119.84	111.28
1	f9	191	VAL	CA-C-O	7.86	128.17	119.92
1	fv	14	ALA	CA-C-N	7.86	132.16	120.69
1	fv	14	ALA	C-N-CA	7.86	132.16	120.69
1	go	140	LYS	CA-C-N	7.86	130.46	120.56
1	go	140	LYS	C-N-CA	7.86	130.46	120.56
1	hi	82	ARG	CA-C-N	7.86	130.81	120.28
1	hi	82	ARG	C-N-CA	7.86	130.81	120.28
1	i3	65	ALA	CA-C-O	7.86	128.75	120.42
1	1S	180	GLU	N-CA-C	7.86	120.74	111.71
1	kj	66	MET	N-CA-CB	7.86	121.79	110.16
1	lr	226	HIS	N-CA-C	-7.86	103.84	113.50
1	lJ	89	GLY	CA-C-N	7.86	127.91	119.90
1	lJ	89	GLY	C-N-CA	7.86	127.91	119.90
1	2i	228	ALA	CA-C-O	7.86	129.93	121.44
1	2R	84	HIS	CA-C-N	7.86	127.90	119.89
1	2R	84	HIS	C-N-CA	7.86	127.90	119.89
1	3x	142	VAL	N-CA-C	7.86	118.61	110.36
1	70	188	THR	CA-C-N	7.86	131.15	120.54
1	70	188	THR	C-N-CA	7.86	131.15	120.54
1	7s	189	LEU	N-CA-C	7.86	119.92	111.36
1	7M	167	ARG	NE-CZ-NH1	7.86	129.36	121.50
1	8w	78	ALA	CA-C-N	7.86	130.81	120.28
1	8w	78	ALA	C-N-CA	7.86	130.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8K	71	GLU	CA-C-N	7.86	130.81	120.28
1	8K	71	GLU	C-N-CA	7.86	130.81	120.28
1	aa	221	VAL	CA-C-O	7.86	126.42	118.96
1	ag	125	PRO	CA-C-N	7.86	131.22	120.46
1	ag	125	PRO	C-N-CA	7.86	131.22	120.46
1	ao	134	ILE	O-C-N	7.86	129.80	121.94
1	15	27	VAL	N-CA-C	7.86	117.96	110.42
1	bx	209	ALA	N-CA-C	7.86	121.32	110.24
1	cu	206	GLY	O-C-N	-7.86	113.91	121.77
1	cN	64	ALA	N-CA-C	7.86	119.84	111.28
1	1h	170	LYS	CA-C-N	7.86	130.81	120.28
1	1h	170	LYS	C-N-CA	7.86	130.81	120.28
1	dM	120	HIS	CA-CB-CG	7.86	121.66	113.80
1	eU	52	LEU	CA-C-N	7.86	130.81	120.28
1	eU	52	LEU	C-N-CA	7.86	130.81	120.28
1	fR	200	THR	N-CA-C	7.86	120.54	111.11
1	t	23	TRP	N-CA-C	7.86	119.48	111.07
1	z	206	GLY	CA-C-N	7.86	129.66	119.84
1	z	206	GLY	C-N-CA	7.86	129.66	119.84
1	1N	53	ASN	CA-CB-CG	-7.85	104.75	112.60
1	iX	75	GLU	N-CA-C	7.85	119.92	111.36
1	jf	87	HIS	CE1-NE2-CD2	-7.85	101.15	109.00
1	2W	221	VAL	N-CA-C	7.85	119.12	109.30
1	a8	82	ARG	CA-C-N	7.85	132.25	120.31
1	a8	82	ARG	C-N-CA	7.85	132.25	120.31
1	aq	8	GLY	CA-C-O	7.85	127.31	118.98
1	ce	65	ALA	N-CA-C	7.85	119.47	111.07
1	eN	69	LEU	N-CA-C	7.85	119.47	111.07
1	1B	48	THR	N-CA-CB	7.85	118.36	109.49
1	t	168	PHE	O-C-N	-7.85	113.98	122.07
1	i8	152	ASP	N-CA-C	-7.85	102.78	113.30
1	1R	139	ASN	CA-C-O	-7.85	110.94	119.97
1	jv	5	ASN	CA-C-N	7.85	131.14	120.54
1	jv	5	ASN	C-N-CA	7.85	131.14	120.54
1	jU	15	ILE	CB-CA-C	7.85	120.27	111.08
1	lE	194	ALA	N-CA-C	7.85	121.03	110.35
1	2h	201	ILE	N-CA-C	7.85	118.60	110.36
1	2W	91	ILE	CA-C-N	7.85	133.42	120.86
1	2W	91	ILE	C-N-CA	7.85	133.42	120.86
1	3Q	130	TYR	N-CA-C	7.85	120.74	111.71
1	3V	21	ASN	N-CA-C	7.85	119.92	111.36
1	42	120	HIS	CG-CD2-NE2	7.85	115.05	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	47	5	ASN	CB-CG-ND2	7.85	128.18	116.40
1	4u	226	HIS	CG-CD2-NE2	7.85	115.05	107.20
1	4V	143	ARG	CD-NE-CZ	7.85	135.39	124.40
1	5s	16	SER	O-C-N	-7.85	112.12	121.39
1	5v	17	PRO	CA-C-N	7.85	131.02	120.65
1	5v	17	PRO	C-N-CA	7.85	131.02	120.65
1	7e	145	TYR	CA-C-O	7.85	125.25	119.68
1	7C	115	ILE	CB-CA-C	7.85	123.06	112.22
1	7H	161	PHE	CA-C-O	-7.85	112.22	120.55
1	7L	151	LEU	N-CA-C	7.85	121.96	112.38
1	8O	88	ALA	CA-C-N	7.85	134.20	121.87
1	8O	88	ALA	C-N-CA	7.85	134.20	121.87
1	94	226	HIS	N-CA-C	7.85	121.03	110.35
1	9k	146	SER	O-C-N	-7.85	115.35	121.47
1	at	37	ILE	O-C-N	7.85	125.44	120.42
1	aA	83	LEU	O-C-N	7.85	130.26	122.09
1	aE	143	ARG	N-CA-C	7.85	120.93	111.82
1	c7	49	PRO	CA-C-N	7.85	130.80	120.28
1	c7	49	PRO	C-N-CA	7.85	130.80	120.28
1	cb	85	PRO	CB-CA-C	7.85	119.55	109.89
1	cV	178	SER	CA-C-N	7.85	130.80	120.28
1	cV	178	SER	C-N-CA	7.85	130.80	120.28
1	dA	52	LEU	N-CA-C	-7.85	102.80	111.36
1	dC	87	HIS	O-C-N	-7.85	114.05	123.16
1	eJ	113	GLU	N-CA-C	7.85	119.84	111.28
1	fh	126	VAL	CA-C-N	7.85	128.70	119.98
1	fh	126	VAL	C-N-CA	7.85	128.70	119.98
1	1y	70	LYS	N-CA-C	7.85	119.84	111.28
1	q	92	GLU	O-C-N	-7.85	116.31	121.88
1	t	5	ASN	CA-CB-CG	7.85	120.45	112.60
1	N	109	SER	O-C-N	-7.85	114.12	123.31
1	hP	48	THR	N-CA-CB	7.85	120.61	109.78
1	hV	210	THR	CA-C-N	7.85	131.14	120.38
1	hV	210	THR	C-N-CA	7.85	131.14	120.38
1	ip	213	GLU	O-C-N	7.85	130.19	122.03
1	jw	63	GLN	CA-C-N	7.85	130.65	120.44
1	jw	63	GLN	C-N-CA	7.85	130.65	120.44
1	k5	133	TRP	CB-CG-CD2	-7.85	115.81	126.80
1	kY	90	PRO	CA-C-O	-7.85	112.39	121.34
1	2d	13	GLN	OE1-CD-NE2	-7.85	114.75	122.60
1	2s	68	MET	N-CA-C	7.85	119.84	111.28
1	2O	103	ASP	CA-C-N	7.85	131.57	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	103	ASP	C-N-CA	7.85	131.57	120.42
1	3a	167	ARG	NE-CZ-NH1	7.85	129.35	121.50
1	4i	158	LYS	CA-C-N	7.85	131.89	120.51
1	4i	158	LYS	C-N-CA	7.85	131.89	120.51
1	5A	20	LEU	CA-C-O	7.85	128.87	120.55
1	au	32	PHE	CA-C-N	7.85	131.89	120.51
1	au	32	PHE	C-N-CA	7.85	131.89	120.51
1	c1	4	GLN	N-CA-C	7.85	122.22	111.54
1	1l	92	GLU	N-CA-C	7.85	120.78	109.48
1	eb	134	ILE	O-C-N	-7.85	114.22	121.91
1	ft	146	SER	N-CA-CB	7.85	121.94	110.32
1	hb	176	GLN	CA-C-N	7.85	131.97	120.90
1	hb	176	GLN	C-N-CA	7.85	131.97	120.90
1	hy	143	ARG	NE-CZ-NH2	-7.85	112.14	119.20
1	ii	224	PRO	CA-C-N	7.85	129.95	120.14
1	ii	224	PRO	C-N-CA	7.85	129.95	120.14
1	iI	184	TRP	CA-C-N	7.85	130.80	120.28
1	iI	184	TRP	C-N-CA	7.85	130.80	120.28
1	iQ	97	ARG	N-CA-C	7.85	120.44	110.24
1	jX	27	VAL	N-CA-C	7.85	117.95	110.42
1	2G	159	GLU	CA-C-N	7.85	127.91	119.90
1	2G	159	GLU	C-N-CA	7.85	127.91	119.90
1	36	187	GLU	CA-C-N	7.85	131.79	121.90
1	36	187	GLU	C-N-CA	7.85	131.79	121.90
1	3N	12	HIS	ND1-CE1-NE2	7.85	116.25	108.40
1	4Q	90	PRO	CA-C-N	7.85	131.07	120.63
1	4Q	90	PRO	C-N-CA	7.85	131.07	120.63
1	5d	84	HIS	CA-C-O	-7.85	113.12	119.71
1	5B	67	GLN	OE1-CD-NE2	7.85	130.45	122.60
1	64	156	GLY	CA-C-N	7.85	127.51	119.19
1	64	156	GLY	C-N-CA	7.85	127.51	119.19
1	6l	223	GLY	CA-C-N	7.85	129.65	119.84
1	6l	223	GLY	C-N-CA	7.85	129.65	119.84
1	6C	1	PRO	CA-C-N	7.85	133.54	123.10
1	6C	1	PRO	C-N-CA	7.85	133.54	123.10
1	97	18	ARG	CA-C-N	7.85	131.44	120.29
1	97	18	ARG	C-N-CA	7.85	131.44	120.29
1	9z	37	ILE	CA-C-N	7.85	127.92	119.28
1	9z	37	ILE	C-N-CA	7.85	127.92	119.28
1	co	68	MET	O-C-N	7.85	130.44	122.12
1	cy	212	GLU	O-C-N	-7.85	113.99	122.07
1	1f	23	TRP	N-CA-C	7.85	119.47	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cY	200	THR	O-C-N	-7.85	112.61	122.27
1	d3	84	HIS	CA-C-O	-7.85	112.24	119.62
1	eM	159	GLU	CA-C-O	-7.85	111.95	119.80
1	g7	131	LYS	N-CA-C	7.85	120.83	111.33
1	1E	185	MET	N-CA-C	7.85	119.83	111.28
1	gW	176	GLN	CA-C-N	7.85	132.60	120.75
1	gW	176	GLN	C-N-CA	7.85	132.60	120.75
1	hN	229	ARG	NE-CZ-NH1	7.85	129.35	121.50
1	ic	180	GLU	O-C-N	-7.85	113.80	122.12
1	1S	37	ILE	O-C-N	-7.85	112.15	121.10
1	iZ	27	VAL	CA-C-N	7.85	130.64	120.44
1	iZ	27	VAL	C-N-CA	7.85	130.64	120.44
1	j4	68	MET	O-C-N	-7.85	113.80	122.12
1	j9	120	HIS	CB-CG-CD2	-7.85	121.00	131.20
1	js	120	HIS	CA-CB-CG	7.85	121.65	113.80
1	kp	154	ARG	CA-C-N	7.85	131.85	120.71
1	kp	154	ARG	C-N-CA	7.85	131.85	120.71
1	l6	159	GLU	O-C-N	-7.85	113.43	121.28
1	lI	173	ARG	NE-CZ-NH2	7.85	126.26	119.20
1	2k	41	SER	O-C-N	-7.85	113.20	122.15
1	33	196	PRO	N-CA-C	7.85	128.64	112.47
1	3p	124	ILE	CA-C-O	-7.85	113.47	119.20
1	3p	228	ALA	CA-C-N	7.85	136.53	121.54
1	3p	228	ALA	C-N-CA	7.85	136.53	121.54
1	5l	145	TYR	CA-C-N	7.85	131.19	120.67
1	5l	145	TYR	C-N-CA	7.85	131.19	120.67
1	5s	121	ASN	O-C-N	-7.85	111.45	121.10
1	60	117	TRP	O-C-N	-7.85	113.04	122.22
1	6i	124	ILE	O-C-N	-7.85	114.35	121.41
1	6j	42	ALA	CA-C-N	7.85	130.79	120.28
1	6j	42	ALA	C-N-CA	7.85	130.79	120.28
1	71	195	ASN	N-CA-C	7.85	118.62	109.60
1	78	18	ARG	CA-C-N	7.85	130.64	120.44
1	78	18	ARG	C-N-CA	7.85	130.64	120.44
1	7S	210	THR	CA-C-N	7.85	131.13	120.38
1	7S	210	THR	C-N-CA	7.85	131.13	120.38
1	a5	114	GLN	CA-C-N	7.85	131.60	120.53
1	a5	114	GLN	C-N-CA	7.85	131.60	120.53
1	a7	201	ILE	N-CA-CB	7.85	119.73	110.55
1	bB	183	ASN	OD1-CG-ND2	-7.85	114.75	122.60
1	bF	221	VAL	N-CA-C	7.85	119.96	109.37
1	c4	114	GLN	CA-C-O	-7.85	112.23	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cW	195	ASN	CA-CB-CG	-7.85	104.75	112.60
1	dj	135	ILE	N-CA-C	7.85	118.62	110.62
1	dY	120	HIS	CA-CB-CG	7.85	121.65	113.80
1	1o	137	GLY	CA-C-N	7.85	130.80	120.28
1	1o	137	GLY	C-N-CA	7.85	130.80	120.28
1	es	156	GLY	CA-C-N	7.85	127.49	119.56
1	es	156	GLY	C-N-CA	7.85	127.49	119.56
1	f1	166	ASP	CA-C-N	7.85	130.64	120.44
1	f1	166	ASP	C-N-CA	7.85	130.64	120.44
1	f3	139	ASN	N-CA-C	7.85	119.47	111.07
1	f4	212	GLU	N-CA-C	7.85	119.47	111.07
1	fV	81	ASP	CA-CB-CG	7.85	120.45	112.60
1	1A	215	MET	CA-C-N	7.85	131.13	120.38
1	1A	215	MET	C-N-CA	7.85	131.13	120.38
1	k8	142	VAL	O-C-N	-7.85	114.26	121.87
1	25	84	HIS	CA-CB-CG	-7.85	105.95	113.80
1	2p	135	ILE	CB-CA-C	7.85	122.73	112.14
1	3Y	33	SER	CA-C-N	7.85	127.51	119.82
1	3Y	33	SER	C-N-CA	7.85	127.51	119.82
1	7n	154	ARG	NE-CZ-NH1	7.85	129.35	121.50
1	7H	25	LYS	N-CA-C	7.85	120.92	111.82
1	8A	118	MET	CA-C-O	7.85	128.74	120.42
1	9c	204	ALA	CA-C-N	7.85	131.01	120.65
1	9c	204	ALA	C-N-CA	7.85	131.01	120.65
1	9g	100	ARG	NE-CZ-NH2	-7.85	112.14	119.20
1	9l	152	ASP	O-C-N	-7.85	112.70	122.35
1	am	173	ARG	N-CA-C	7.85	119.83	111.28
1	at	155	GLN	N-CA-C	7.85	121.02	110.35
1	bx	135	ILE	N-CA-C	7.85	117.95	110.42
1	cz	97	ARG	NE-CZ-NH2	-7.85	112.14	119.20
1	dq	86	VAL	N-CA-C	7.85	119.11	109.30
1	hy	149	SER	CA-C-N	7.84	131.59	120.53
1	hy	149	SER	C-N-CA	7.84	131.59	120.53
1	ig	166	ASP	CA-C-N	7.84	130.64	120.44
1	ig	166	ASP	C-N-CA	7.84	130.64	120.44
1	iM	103	ASP	CA-C-N	7.84	130.44	120.56
1	iM	103	ASP	C-N-CA	7.84	130.44	120.56
1	jd	67	GLN	N-CA-C	7.84	119.83	111.28
1	jg	120	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
1	jg	181	VAL	CA-C-N	7.84	130.64	120.44
1	jg	181	VAL	C-N-CA	7.84	130.64	120.44
1	k4	87	HIS	CB-CG-CD2	-7.84	121.00	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3K	59	VAL	CB-CA-C	7.84	120.26	111.08
1	3L	32	PHE	N-CA-C	7.84	122.43	112.86
1	3Z	74	ASN	CA-CB-CG	-7.84	104.76	112.60
1	4P	200	THR	O-C-N	-7.84	113.99	122.07
1	4Y	76	GLU	N-CA-C	7.84	119.46	111.07
1	67	98	GLU	CA-C-N	7.84	128.46	119.99
1	67	98	GLU	C-N-CA	7.84	128.46	119.99
1	6n	61	GLY	O-C-N	-7.84	114.55	122.86
1	6H	25	LYS	N-CA-C	7.84	119.83	111.28
1	al	98	GLU	N-CA-C	7.84	119.22	109.57
1	aC	79	GLU	N-CA-C	7.84	119.83	111.28
1	18	33	SER	N-CA-C	-7.84	101.16	108.22
1	19	37	ILE	N-CA-CB	7.84	116.57	110.45
1	dF	41	SER	O-C-N	-7.84	113.87	122.03
1	dP	133	TRP	CB-CG-CD2	-7.84	115.82	126.80
1	eM	5	ASN	OD1-CG-ND2	-7.84	114.75	122.60
1	fu	39	MET	CA-C-N	7.84	130.79	120.28
1	fu	39	MET	C-N-CA	7.84	130.79	120.28
1	fZ	51	ASP	N-CA-C	7.84	119.83	111.28
1	p	55	MET	CA-C-O	7.84	128.87	120.55
1	1L	167	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	im	173	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	jO	56	LEU	N-CA-C	7.84	120.92	111.82
1	ks	143	ARG	N-CA-C	7.84	119.46	111.07
1	kS	112	GLN	OE1-CD-NE2	-7.84	114.76	122.60
1	2p	167	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	5f	66	MET	N-CA-C	7.84	119.83	111.28
1	7G	18	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	92	179	GLN	CA-C-O	7.84	128.86	120.55
1	9I	10	MET	CA-C-O	-7.84	112.77	121.87
1	fo	140	LYS	CA-C-N	7.84	131.59	120.53
1	fo	140	LYS	C-N-CA	7.84	131.59	120.53
1	gi	120	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
1	gA	213	GLU	CA-C-N	7.84	130.63	120.44
1	gA	213	GLU	C-N-CA	7.84	130.63	120.44
1	h0	85	PRO	N-CA-CB	7.84	110.15	103.25
1	kA	109	SER	CA-C-O	7.84	129.50	120.80
1	kF	226	HIS	CA-CB-CG	7.84	121.64	113.80
1	lO	114	GLN	O-C-N	-7.84	113.99	122.07
1	2e	33	SER	CA-C-N	7.84	128.57	119.47
1	2e	33	SER	C-N-CA	7.84	128.57	119.47
1	2A	8	GLY	N-CA-C	-7.84	102.61	111.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4J	53	ASN	CA-CB-CG	-7.84	104.76	112.60
1	4O	37	ILE	CA-C-N	7.84	127.39	119.24
1	4O	37	ILE	C-N-CA	7.84	127.39	119.24
1	5z	51	ASP	O-C-N	-7.84	113.99	122.07
1	5T	26	VAL	CA-C-N	7.84	130.29	120.72
1	5T	26	VAL	C-N-CA	7.84	130.29	120.72
1	5T	73	ILE	CA-C-N	7.84	131.43	120.29
1	5T	73	ILE	C-N-CA	7.84	131.43	120.29
1	6k	37	ILE	O-C-N	-7.84	115.40	120.42
1	7g	14	ALA	CA-C-O	7.84	129.99	121.05
1	8b	213	GLU	O-C-N	-7.84	112.62	122.27
1	8h	82	ARG	N-CA-C	7.84	119.83	111.28
1	92	36	VAL	CA-C-N	7.84	126.60	120.33
1	92	36	VAL	C-N-CA	7.84	126.60	120.33
1	9V	82	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	9Z	147	PRO	N-CA-CB	-7.84	96.35	103.25
1	aO	164	TYR	N-CA-C	7.84	120.52	111.11
1	bf	151	LEU	N-CA-C	7.84	119.91	111.36
1	1e	57	ASN	O-C-N	-7.84	112.62	122.27
1	cr	115	ILE	CA-C-N	7.84	128.85	119.99
1	cr	115	ILE	C-N-CA	7.84	128.85	119.99
1	ct	169	TYR	N-CA-CB	7.84	121.65	110.12
1	dk	195	ASN	CA-CB-CG	7.84	120.44	112.60
1	dD	53	ASN	CA-CB-CG	-7.84	104.76	112.60
1	e0	48	THR	N-CA-CB	7.84	120.47	110.04
1	ea	59	VAL	CA-C-O	7.84	129.98	121.04
1	f8	5	ASN	CA-C-N	7.84	131.83	120.38
1	f8	5	ASN	C-N-CA	7.84	131.83	120.38
1	fQ	14	ALA	N-CA-C	7.84	121.60	110.23
1	4	214	MET	O-C-N	7.84	130.56	122.09
1	h6	134	ILE	N-CA-C	7.84	118.59	110.36
1	jr	121	ASN	CA-CB-CG	7.84	120.44	112.60
1	jH	78	ALA	N-CA-C	7.84	119.46	111.07
1	li	77	ALA	N-CA-C	7.84	119.83	111.28
1	3w	64	ALA	O-C-N	7.84	130.14	122.07
1	4f	180	GLU	CA-C-O	7.84	129.29	120.90
1	67	89	GLY	O-C-N	-7.84	113.93	121.77
1	6c	152	ASP	CA-C-O	7.84	130.29	120.65
1	6c	165	VAL	N-CA-C	7.84	117.95	110.42
1	85	195	ASN	OD1-CG-ND2	7.84	130.44	122.60
1	9H	229	ARG	NE-CZ-NH2	7.84	126.26	119.20
1	au	183	ASN	CA-C-O	7.84	128.73	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aH	100	ARG	NE-CZ-NH2	-7.84	112.14	119.20
1	bD	204	ALA	N-CA-C	7.84	119.83	111.28
1	cu	53	ASN	CA-C-N	7.84	131.12	120.54
1	cu	53	ASN	C-N-CA	7.84	131.12	120.54
1	de	31	ALA	CB-CA-C	-7.84	106.57	117.23
1	fc	174	ALA	CA-C-O	7.84	128.51	119.18
1	fC	87	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
1	fX	137	GLY	CA-C-N	7.84	130.79	120.28
1	fX	137	GLY	C-N-CA	7.84	130.79	120.28
1	fY	81	ASP	CA-CB-CG	7.84	120.44	112.60
1	x	23	TRP	CA-C-N	7.84	130.44	120.56
1	x	23	TRP	C-N-CA	7.84	130.44	120.56
1	4	217	ALA	N-CA-C	7.84	119.83	111.28
1	gw	168	PHE	CA-C-O	7.84	128.86	120.55
1	hB	132	ARG	CA-C-N	7.84	130.78	120.28
1	hB	132	ARG	C-N-CA	7.84	130.78	120.28
1	kP	31	ALA	N-CA-C	7.84	120.22	108.31
1	lD	28	GLU	N-CA-C	7.84	120.81	111.33
1	2t	84	HIS	O-C-N	-7.84	114.19	121.32
1	5a	17	PRO	N-CA-C	-7.84	103.29	114.18
1	5m	72	THR	CA-C-N	7.84	130.44	120.56
1	5m	72	THR	C-N-CA	7.84	130.44	120.56
1	7W	54	THR	O-C-N	7.84	130.14	122.07
1	88	103	ASP	N-CA-C	7.84	119.46	111.07
1	aK	26	VAL	N-CA-CB	7.84	120.60	110.57
1	dT	33	SER	CA-C-N	7.84	129.64	119.84
1	dT	33	SER	C-N-CA	7.84	129.64	119.84
1	ew	53	ASN	OD1-CG-ND2	-7.84	114.76	122.60
1	4	92	GLU	CA-C-O	-7.84	112.21	120.28
1	1E	36	VAL	CA-C-O	7.84	129.10	120.95
1	gU	166	ASP	CA-CB-CG	-7.84	104.76	112.60
1	hu	167	ARG	N-CA-C	7.84	119.90	111.36
1	iQ	100	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	j5	84	HIS	CA-C-O	-7.84	112.74	120.97
1	jp	121	ASN	CA-C-O	-7.84	113.48	119.59
1	jL	19	THR	CA-C-N	7.84	130.63	120.44
1	jL	19	THR	C-N-CA	7.84	130.63	120.44
1	ke	130	TYR	N-CA-C	7.84	119.82	111.28
1	ke	150	ILE	CA-C-N	7.84	131.12	120.38
1	ke	150	ILE	C-N-CA	7.84	131.12	120.38
1	kC	226	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
1	kZ	183	ASN	N-CA-C	7.84	119.82	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l7	91	ILE	CA-CB-CG1	7.84	123.72	110.40
1	ll	63	GLN	N-CA-C	7.84	119.82	111.28
1	ln	88	ALA	N-CA-C	7.84	120.43	110.24
1	4k	100	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	4M	38	PRO	N-CA-CB	7.84	110.75	103.46
1	5K	203	LYS	O-C-N	-7.84	113.22	122.15
1	6d	91	ILE	CA-C-O	-7.84	112.19	120.57
1	6S	113	GLU	N-CA-C	7.84	119.82	111.28
1	8p	35	GLU	N-CA-C	7.84	121.78	111.75
1	99	161	PHE	CA-C-O	7.84	128.86	120.55
1	9c	12	HIS	CE1-NE2-CD2	-7.84	101.16	109.00
1	aP	156	GLY	O-C-N	-7.84	113.93	121.77
1	c6	194	ALA	N-CA-C	7.84	120.87	110.53
1	cg	223	GLY	CA-C-N	7.84	127.83	119.76
1	cg	223	GLY	C-N-CA	7.84	127.83	119.76
1	cE	29	GLU	N-CA-C	7.84	119.90	111.36
1	cL	104	ILE	CA-C-N	7.84	131.56	120.28
1	cL	104	ILE	C-N-CA	7.84	131.56	120.28
1	dk	113	GLU	N-CA-C	7.84	119.45	111.07
1	dW	110	THR	N-CA-CB	7.84	121.57	110.36
1	eJ	70	LYS	N-CA-C	7.84	119.90	111.36
1	eL	17	PRO	N-CA-C	-7.84	103.31	113.57
1	1u	37	ILE	O-C-N	-7.84	112.17	121.10
1	1x	37	ILE	CA-C-O	-7.84	112.75	118.71
1	fB	133	TRP	N-CA-C	7.84	119.82	111.28
1	V	162	ARG	NE-CZ-NH1	7.84	129.34	121.50
1	h2	80	TRP	N-CA-C	7.83	119.82	111.28
1	hB	39	MET	CG-SD-CE	-7.83	83.66	100.90
1	iq	112	GLN	N-CA-C	7.83	119.45	111.07
1	jd	100	ARG	O-C-N	-7.83	113.92	122.85
1	jn	121	ASN	CA-CB-CG	-7.83	104.77	112.60
1	2b	6	LEU	CA-C-O	7.83	127.67	119.05
1	48	32	PHE	CA-CB-CG	-7.83	105.97	113.80
1	4w	98	GLU	N-CA-C	7.83	120.83	109.71
1	4P	186	THR	CA-C-N	7.83	130.99	120.65
1	4P	186	THR	C-N-CA	7.83	130.99	120.65
1	58	58	THR	CA-C-N	7.83	131.19	120.46
1	58	58	THR	C-N-CA	7.83	131.19	120.46
1	5c	22	ALA	CA-C-N	7.83	130.63	120.44
1	5c	22	ALA	C-N-CA	7.83	130.63	120.44
1	97	64	ALA	CA-C-O	7.83	129.04	119.79
1	15	82	ARG	N-CA-C	7.83	119.45	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	48	THR	N-CA-CB	7.83	121.33	110.05
1	d9	118	MET	N-CA-C	7.83	119.90	111.36
1	1l	51	ASP	N-CA-C	7.83	120.51	111.11
1	el	85	PRO	CA-C-N	7.83	131.58	120.53
1	el	85	PRO	C-N-CA	7.83	131.58	120.53
1	ge	197	ASP	CA-CB-CG	7.83	120.43	112.60
1	gI	187	GLU	CA-C-N	7.83	130.78	120.28
1	gI	187	GLU	C-N-CA	7.83	130.78	120.28
1	hf	226	HIS	CA-CB-CG	-7.83	105.97	113.80
1	hr	3	VAL	CA-C-N	7.83	134.19	122.68
1	hr	3	VAL	C-N-CA	7.83	134.19	122.68
1	iD	150	ILE	CA-C-O	7.83	128.60	119.36
1	iQ	139	ASN	CA-C-N	7.83	130.62	120.44
1	iQ	139	ASN	C-N-CA	7.83	130.62	120.44
1	1Z	57	ASN	CA-CB-CG	-7.83	104.77	112.60
1	lb	173	ARG	N-CA-C	7.83	119.82	111.28
1	lt	110	THR	O-C-N	-7.83	114.18	123.03
1	2y	174	ALA	N-CA-C	7.83	119.90	111.36
1	2N	24	VAL	CA-C-N	7.83	130.78	120.28
1	2N	24	VAL	C-N-CA	7.83	130.78	120.28
1	5Y	163	ASP	N-CA-C	7.83	119.82	111.28
1	6P	190	LEU	N-CA-C	7.83	119.45	111.07
1	7h	48	THR	CA-C-N	7.83	129.63	119.84
1	7h	48	THR	C-N-CA	7.83	129.63	119.84
1	7v	202	LEU	CA-C-N	7.83	132.22	120.31
1	7v	202	LEU	C-N-CA	7.83	132.22	120.31
1	8k	87	HIS	ND1-CE1-NE2	7.83	116.23	108.40
1	8p	37	ILE	O-C-N	-7.83	115.41	120.42
1	9K	81	ASP	CA-C-N	7.83	130.62	120.44
1	9K	81	ASP	C-N-CA	7.83	130.62	120.44
1	a3	185	MET	CG-SD-CE	-7.83	83.67	100.90
1	10	40	PHE	CA-CB-CG	-7.83	105.97	113.80
1	ao	189	LEU	N-CA-C	7.83	120.81	111.33
1	bd	37	ILE	O-C-N	-7.83	115.41	120.42
1	1a	167	ARG	NE-CZ-NH2	-7.83	112.15	119.20
1	bZ	22	ALA	CA-C-O	7.83	128.98	119.97
1	cv	5	ASN	N-CA-C	7.83	122.24	111.90
1	dp	97	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	dQ	166	ASP	CA-CB-CG	7.83	120.43	112.60
1	e9	142	VAL	N-CA-C	7.83	118.61	110.62
1	ew	197	ASP	CA-C-N	7.83	131.11	120.38
1	ew	197	ASP	C-N-CA	7.83	131.11	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	167	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	u	229	ARG	N-CA-C	7.83	121.77	110.10
1	V	165	VAL	O-C-N	-7.83	113.76	121.83
1	1G	5	ASN	CB-CG-ND2	7.83	128.15	116.40
1	ij	64	ALA	CA-C-N	7.83	131.09	120.44
1	ij	64	ALA	C-N-CA	7.83	131.09	120.44
1	j5	230	VAL	CA-C-O	-7.83	112.26	120.64
1	jc	154	ARG	CA-C-O	7.83	129.79	121.33
1	ky	12	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	kY	123	PRO	N-CA-CB	7.83	110.16	103.35
1	28	149	SER	CA-C-N	7.83	133.14	120.30
1	28	149	SER	C-N-CA	7.83	133.14	120.30
1	lP	219	GLN	OE1-CD-NE2	-7.83	114.77	122.60
1	2D	70	LYS	CA-C-N	7.83	130.77	120.28
1	2D	70	LYS	C-N-CA	7.83	130.77	120.28
1	40	25	LYS	CA-C-N	7.83	131.54	120.42
1	40	25	LYS	C-N-CA	7.83	131.54	120.42
1	48	63	GLN	CA-C-N	7.83	131.09	120.44
1	48	63	GLN	C-N-CA	7.83	131.09	120.44
1	4x	90	PRO	N-CA-C	7.83	123.48	111.34
1	4Q	69	LEU	CA-C-N	7.83	130.77	120.28
1	4Q	69	LEU	C-N-CA	7.83	130.77	120.28
1	5s	209	ALA	N-CA-C	7.83	120.69	110.43
1	7E	180	GLU	CA-C-N	7.83	130.43	120.56
1	7E	180	GLU	C-N-CA	7.83	130.43	120.56
1	8q	166	ASP	N-CA-CB	-7.83	97.92	109.82
1	93	164	TYR	CA-C-N	7.83	131.19	120.46
1	93	164	TYR	C-N-CA	7.83	131.19	120.46
1	9l	87	HIS	ND1-CE1-NE2	7.83	116.23	108.40
1	be	183	ASN	CA-CB-CG	-7.83	104.77	112.60
1	bf	87	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	bq	162	ARG	NH1-CZ-NH2	-7.83	109.12	119.30
1	c5	33	SER	CA-C-O	-7.83	112.16	119.76
1	ci	127	GLY	O-C-N	-7.83	114.59	122.19
1	cE	50	GLN	CB-CG-CD	7.83	125.91	112.60
1	dc	78	ALA	N-CA-C	7.83	119.60	111.14
1	fa	21	ASN	N-CA-C	7.83	120.51	111.11
1	fr	180	GLU	N-CA-C	7.83	119.82	111.28
1	h2	126	VAL	N-CA-CB	-7.83	101.82	110.51
1	kP	219	GLN	N-CA-C	7.83	122.04	110.30
1	lD	12	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	lI	162	ARG	NE-CZ-NH1	7.83	129.33	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5q	59	VAL	N-CA-C	7.83	118.61	110.62
1	7Y	22	ALA	N-CA-C	7.83	119.81	111.28
1	8X	100	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	dP	6	LEU	O-C-N	-7.83	114.61	122.99
1	fO	2	ILE	CA-C-O	7.83	129.97	121.04
1	gq	76	GLU	CA-C-O	7.83	128.72	120.42
1	iL	206	GLY	CA-C-N	7.83	129.62	119.84
1	iL	206	GLY	C-N-CA	7.83	129.62	119.84
1	iN	97	ARG	N-CA-C	7.83	121.00	110.35
1	ja	26	VAL	N-CA-C	7.83	118.61	110.62
1	jZ	162	ARG	O-C-N	-7.83	114.01	122.07
1	lM	226	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	lR	149	SER	N-CA-C	7.83	121.31	110.35
1	2M	37	ILE	O-C-N	-7.83	115.41	120.42
1	2Z	167	ARG	CB-CA-C	-7.83	98.59	110.88
1	3X	180	GLU	CA-C-N	7.83	131.19	120.46
1	3X	180	GLU	C-N-CA	7.83	131.19	120.46
1	40	57	ASN	CA-CB-CG	-7.83	104.77	112.60
1	4o	100	ARG	CA-C-N	7.83	128.84	119.99
1	4o	100	ARG	C-N-CA	7.83	128.84	119.99
1	5m	55	MET	CA-C-O	7.83	128.85	120.55
1	6i	206	GLY	CA-C-N	7.83	127.88	119.90
1	6i	206	GLY	C-N-CA	7.83	127.88	119.90
1	7s	18	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	8l	148	THR	N-CA-CB	7.83	122.19	110.29
1	8D	81	ASP	CA-C-N	7.83	130.77	120.28
1	8D	81	ASP	C-N-CA	7.83	130.77	120.28
1	9T	82	ARG	CA-C-N	7.83	130.62	120.44
1	9T	82	ARG	C-N-CA	7.83	130.62	120.44
1	a6	182	LYS	N-CA-C	7.83	119.81	111.28
1	ak	210	THR	CA-C-N	7.83	131.11	120.54
1	ak	210	THR	C-N-CA	7.83	131.11	120.54
1	aG	194	ALA	N-CA-C	7.83	120.68	110.43
1	c2	120	HIS	CA-CB-CG	7.83	121.63	113.80
1	c8	191	VAL	N-CA-C	7.83	118.63	110.72
1	ch	166	ASP	CA-CB-CG	7.83	120.43	112.60
1	cT	42	ALA	N-CA-C	7.83	120.90	111.82
1	cW	128	GLU	N-CA-CB	7.83	121.36	110.01
1	dS	171	THR	CA-C-N	7.83	130.62	120.44
1	dS	171	THR	C-N-CA	7.83	130.62	120.44
1	ec	63	GLN	N-CA-C	7.83	119.81	111.28
1	eg	219	GLN	O-C-N	-7.83	113.34	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eJ	165	VAL	CA-C-N	7.83	130.62	120.44
1	eJ	165	VAL	C-N-CA	7.83	130.62	120.44
1	j	28	GLU	N-CA-C	7.83	121.32	111.69
1	W	18	ARG	NE-CZ-NH2	7.83	126.25	119.20
1	im	141	ILE	CA-C-N	7.83	131.18	120.46
1	im	141	ILE	C-N-CA	7.83	131.18	120.46
1	jI	227	LYS	CA-C-N	7.83	131.94	120.90
1	jI	227	LYS	C-N-CA	7.83	131.94	120.90
1	kk	143	ARG	NE-CZ-NH2	-7.83	112.16	119.20
1	kz	62	HIS	CB-CG-ND1	-7.83	110.96	122.70
1	l8	63	GLN	OE1-CD-NE2	7.83	130.43	122.60
1	2q	229	ARG	NE-CZ-NH2	-7.83	112.16	119.20
1	64	161	PHE	CA-CB-CG	-7.83	105.97	113.80
1	98	12	HIS	N-CA-C	7.83	121.58	110.23
1	bG	208	ALA	CA-C-N	7.83	134.19	122.68
1	bG	208	ALA	C-N-CA	7.83	134.19	122.68
1	eD	104	ILE	O-C-N	-7.83	114.24	121.91
1	gW	56	LEU	O-C-N	-7.83	113.83	122.12
1	h9	204	ALA	N-CA-C	7.83	119.81	111.28
1	hp	138	LEU	CA-C-O	7.83	128.84	120.55
1	1L	173	ARG	NE-CZ-NH2	-7.83	112.16	119.20
1	ii	24	VAL	CA-C-N	7.83	131.40	120.29
1	ii	24	VAL	C-N-CA	7.83	131.40	120.29
1	iZ	197	ASP	CA-CB-CG	7.83	120.42	112.60
1	jd	52	LEU	CA-C-N	7.83	130.61	120.44
1	jd	52	LEU	C-N-CA	7.83	130.61	120.44
1	jM	23	TRP	CA-C-O	-7.83	112.60	120.82
1	k2	173	ARG	NE-CZ-NH1	7.83	129.33	121.50
1	l0	187	GLU	N-CA-C	7.83	119.50	110.97
1	l4	107	THR	CA-CB-OG1	7.83	121.34	109.60
1	lA	146	SER	CA-C-O	7.83	126.28	119.71
1	2s	141	ILE	O-C-N	-7.83	112.79	122.57
1	2K	19	THR	O-C-N	-7.83	113.23	122.15
1	3S	67	GLN	N-CA-C	7.83	119.81	111.28
1	4S	230	VAL	O-C-N	-7.83	113.75	122.83
1	5i	173	ARG	NE-CZ-NH2	-7.83	112.16	119.20
1	5T	87	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	6B	21	ASN	OD1-CG-ND2	-7.83	114.77	122.60
1	8s	115	ILE	O-C-N	-7.83	114.28	121.87
1	9P	189	LEU	N-CA-C	7.83	120.80	111.33
1	9U	129	ILE	N-CA-CB	7.83	121.18	110.54
1	b3	50	GLN	OE1-CD-NE2	-7.83	114.78	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bc	113	GLU	O-C-N	-7.83	113.82	122.12
1	bG	212	GLU	N-CA-C	7.83	120.80	111.33
1	cE	48	THR	CA-C-N	7.83	128.24	119.32
1	cE	48	THR	C-N-CA	7.83	128.24	119.32
1	x	63	GLN	N-CA-C	7.83	119.81	111.28
1	J	62	HIS	CE1-NE2-CD2	-7.83	101.17	109.00
1	gh	37	ILE	CA-C-O	-7.82	113.45	118.69
1	1R	226	HIS	CA-C-N	7.82	130.76	120.28
1	1R	226	HIS	C-N-CA	7.82	130.76	120.28
1	iV	218	CYS	CA-C-N	7.82	133.87	121.66
1	iV	218	CYS	C-N-CA	7.82	133.87	121.66
1	jT	179	GLN	OE1-CD-NE2	-7.82	114.78	122.60
1	k7	5	ASN	OD1-CG-ND2	7.82	130.42	122.60
1	lP	141	ILE	N-CA-CB	7.82	119.70	110.55
1	2O	220	GLY	CA-C-O	7.82	129.26	119.25
1	2Q	16	SER	CA-C-N	7.82	127.89	119.28
1	2Q	16	SER	C-N-CA	7.82	127.89	119.28
1	2S	113	GLU	N-CA-C	7.82	120.50	111.11
1	3J	75	GLU	CB-CA-C	7.82	123.36	110.92
1	43	140	LYS	CA-C-N	7.82	130.48	120.70
1	43	140	LYS	C-N-CA	7.82	130.48	120.70
1	4a	120	HIS	CE1-NE2-CD2	-7.82	101.18	109.00
1	4E	143	ARG	NH1-CZ-NH2	-7.82	109.13	119.30
1	4X	146	SER	N-CA-C	7.82	119.51	109.65
1	6i	134	ILE	N-CA-C	7.82	117.93	110.42
1	6Y	201	ILE	O-C-N	-7.82	113.77	121.83
1	7p	227	LYS	N-CA-C	7.82	120.99	110.35
1	7t	74	ASN	CA-CB-CG	7.82	120.42	112.60
1	7A	228	ALA	N-CA-C	7.82	120.71	111.71
1	7Y	22	ALA	CA-C-O	7.82	128.84	120.55
1	8H	133	TRP	O-C-N	-7.82	114.01	122.07
1	9j	181	VAL	N-CA-C	7.82	117.93	110.42
1	9k	88	ALA	N-CA-C	7.82	120.96	109.07
1	9L	74	ASN	CA-CB-CG	7.82	120.42	112.60
1	14	5	ASN	CA-C-N	7.82	136.48	121.54
1	14	5	ASN	C-N-CA	7.82	136.48	121.54
1	aQ	165	VAL	O-C-N	-7.82	113.77	121.83
1	ba	131	LYS	N-CA-C	7.82	119.81	111.28
1	bz	216	THR	CA-C-O	7.82	128.49	119.18
1	bQ	48	THR	N-CA-CB	7.82	121.32	110.05
1	1e	130	TYR	N-CA-C	7.82	119.81	111.28
1	cu	12	HIS	CE1-NE2-CD2	-7.82	101.18	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e3	84	HIS	CB-CG-CD2	-7.82	121.03	131.20
1	eR	198	CYS	CA-C-N	7.82	131.40	120.29
1	eR	198	CYS	C-N-CA	7.82	131.40	120.29
1	fr	32	PHE	CA-C-N	7.82	133.34	122.07
1	fr	32	PHE	C-N-CA	7.82	133.34	122.07
1	hU	60	GLY	O-C-N	-7.82	114.23	122.60
1	iH	143	ARG	NE-CZ-NH2	-7.82	112.16	119.20
1	jB	26	VAL	N-CA-C	7.82	118.60	110.62
1	jE	143	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	k8	68	MET	CG-SD-CE	-7.82	83.69	100.90
1	kr	97	ARG	N-CA-CB	7.82	123.71	110.49
1	lK	74	ASN	N-CA-C	7.82	119.81	111.28
1	2b	187	GLU	CA-C-N	7.82	131.75	122.44
1	2b	187	GLU	C-N-CA	7.82	131.75	122.44
1	2q	124	ILE	O-C-N	-7.82	116.44	121.37
1	4I	113	GLU	CA-C-O	7.82	128.84	120.55
1	5b	9	GLN	OE1-CD-NE2	-7.82	114.78	122.60
1	6H	29	GLU	O-C-N	-7.82	114.13	122.19
1	70	174	ALA	N-CA-C	7.82	119.81	111.28
1	7u	37	ILE	O-C-N	-7.82	115.41	120.42
1	8X	91	ILE	CA-C-O	7.82	129.14	120.85
1	cc	97	ARG	O-C-N	-7.82	113.87	122.79
1	cs	85	PRO	CA-C-N	7.82	131.62	120.98
1	cs	85	PRO	C-N-CA	7.82	131.62	120.98
1	gg	138	LEU	N-CA-CB	7.82	121.62	110.12
1	hJ	189	LEU	CA-C-N	7.82	130.76	120.28
1	hJ	189	LEU	C-N-CA	7.82	130.76	120.28
1	jE	98	GLU	O-C-N	-7.82	113.91	121.18
1	2E	123	PRO	CA-C-N	7.82	130.24	123.04
1	2E	123	PRO	C-N-CA	7.82	130.24	123.04
1	2N	60	GLY	CA-C-N	7.82	132.11	121.01
1	2N	60	GLY	C-N-CA	7.82	132.11	121.01
1	2U	177	ALA	CA-C-N	7.82	135.20	120.97
1	2U	177	ALA	C-N-CA	7.82	135.20	120.97
1	3a	111	LEU	N-CA-C	7.82	120.79	111.33
1	3u	68	MET	CG-SD-CE	-7.82	83.69	100.90
1	3K	116	GLY	N-CA-C	7.82	122.11	112.73
1	4O	204	ALA	N-CA-C	7.82	119.81	111.28
1	5H	127	GLY	CA-C-N	7.82	131.40	120.29
1	5H	127	GLY	C-N-CA	7.82	131.40	120.29
1	5N	74	ASN	CA-CB-CG	-7.82	104.78	112.60
1	79	103	ASP	N-CA-C	7.82	119.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9y	96	MET	CG-SD-CE	-7.82	83.69	100.90
1	ae	126	VAL	N-CA-C	7.82	119.53	110.62
1	ae	183	ASN	CA-C-O	7.82	128.84	120.55
1	bf	84	HIS	O-C-N	-7.82	112.39	121.23
1	c2	66	MET	N-CA-C	7.82	119.81	111.28
1	c5	70	LYS	O-C-N	-7.82	113.83	122.12
1	e6	126	VAL	CA-C-N	7.82	128.66	119.98
1	e6	126	VAL	C-N-CA	7.82	128.66	119.98
1	1s	117	TRP	N-CA-C	7.82	119.80	111.28
1	fM	21	ASN	N-CA-C	7.82	120.89	111.82
1	t	230	VAL	O-C-N	-7.82	114.73	123.18
1	I	211	LEU	N-CA-C	7.82	120.49	111.11
1	5	226	HIS	CA-CB-CG	7.82	121.62	113.80
1	hM	89	GLY	CA-C-O	-7.82	114.33	122.38
1	jO	177	ALA	CA-C-N	7.82	131.92	120.90
1	jO	177	ALA	C-N-CA	7.82	131.92	120.90
1	kU	141	ILE	CB-CA-C	7.82	121.98	111.97
1	49	100	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	6f	16	SER	O-C-N	-7.82	112.67	121.43
1	7e	129	ILE	N-CA-C	7.82	117.93	110.42
1	7r	209	ALA	CA-C-N	7.82	133.69	121.26
1	7r	209	ALA	C-N-CA	7.82	133.69	121.26
1	9q	27	VAL	N-CA-C	7.82	117.93	110.42
1	a2	63	GLN	N-CA-C	7.82	119.44	111.07
1	ct	10	MET	O-C-N	-7.82	113.79	123.33
1	1k	167	ARG	NH1-CZ-NH2	-7.82	109.14	119.30
1	dD	143	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	fg	159	GLU	CA-C-O	-7.82	113.44	119.46
1	im	59	VAL	N-CA-C	7.82	119.07	109.30
1	iH	210	THR	N-CA-CB	7.82	121.64	109.83
1	28	46	GLY	CA-C-N	7.82	131.97	120.87
1	28	46	GLY	C-N-CA	7.82	131.97	120.87
1	ly	48	THR	N-CA-CB	7.82	119.71	109.55
1	lL	210	THR	O-C-N	-7.82	115.72	123.46
1	4t	142	VAL	CA-C-O	-7.82	112.56	120.85
1	4y	136	LEU	N-CA-CB	7.82	121.79	110.06
1	5I	149	SER	N-CA-C	7.82	120.98	110.35
1	68	57	ASN	CA-C-N	7.82	130.60	120.44
1	68	57	ASN	C-N-CA	7.82	130.60	120.44
1	7z	117	TRP	N-CA-C	7.82	120.89	111.82
1	86	167	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	8J	223	GLY	O-C-N	-7.82	113.95	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	91	122	PRO	CA-C-N	7.82	128.30	119.93
1	91	122	PRO	C-N-CA	7.82	128.30	119.93
1	92	211	LEU	CA-C-O	7.82	129.00	119.38
1	aD	75	GLU	N-CA-C	7.82	119.43	111.07
1	aH	119	THR	CA-C-O	7.82	128.50	119.35
1	bM	221	VAL	CA-C-N	7.82	133.49	121.45
1	bM	221	VAL	C-N-CA	7.82	133.49	121.45
1	c8	155	GLN	CA-C-N	7.82	131.37	121.36
1	c8	155	GLN	C-N-CA	7.82	131.37	121.36
1	cB	122	PRO	CA-C-N	7.82	127.97	120.31
1	cB	122	PRO	C-N-CA	7.82	127.97	120.31
1	d5	206	GLY	O-C-N	-7.82	113.95	121.77
1	da	210	THR	CA-C-N	7.82	131.54	120.28
1	da	210	THR	C-N-CA	7.82	131.54	120.28
1	dk	162	ARG	O-C-N	-7.82	113.07	122.22
1	1r	161	PHE	CA-C-N	7.82	131.09	120.38
1	1r	161	PHE	C-N-CA	7.82	131.09	120.38
1	eU	182	LYS	N-CA-C	7.82	119.44	111.07
1	fl	118	MET	N-CA-C	7.82	119.88	111.36
1	fC	79	GLU	CA-C-N	7.82	131.09	120.38
1	fC	79	GLU	C-N-CA	7.82	131.09	120.38
1	fF	202	LEU	CA-C-O	7.82	128.84	120.55
1	fK	27	VAL	N-CA-C	-7.82	104.95	111.91
1	W	103	ASP	CA-C-N	7.82	131.17	120.46
1	W	103	ASP	C-N-CA	7.82	131.17	120.46
1	gO	180	GLU	CA-C-O	7.82	128.93	120.10
1	h0	201	ILE	N-CA-C	7.82	117.92	110.42
1	hj	71	GLU	CA-C-N	7.82	131.65	120.79
1	hj	71	GLU	C-N-CA	7.82	131.65	120.79
1	iG	143	ARG	CA-C-N	7.82	131.53	120.28
1	iG	143	ARG	C-N-CA	7.82	131.53	120.28
1	jN	97	ARG	NE-CZ-NH2	-7.82	112.17	119.20
1	2v	16	SER	CA-C-O	7.82	128.69	120.64
1	35	54	THR	CA-C-N	7.82	130.75	120.28
1	35	54	THR	C-N-CA	7.82	130.75	120.28
1	48	140	LYS	CA-C-N	7.82	130.41	120.56
1	48	140	LYS	C-N-CA	7.82	130.41	120.56
1	4d	74	ASN	N-CA-C	7.82	119.80	111.28
1	5F	37	ILE	O-C-N	-7.82	115.42	120.42
1	66	76	GLU	N-CA-C	7.82	119.80	111.28
1	6r	166	ASP	CB-CA-C	7.82	123.31	110.81
1	6z	74	ASN	CA-CB-CG	7.82	120.42	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7j	154	ARG	NE-CZ-NH1	7.82	129.32	121.50
1	1a	52	LEU	N-CA-C	7.82	119.80	111.28
1	bT	215	MET	O-C-N	-7.82	112.20	122.59
1	cc	37	ILE	N-CA-C	7.82	121.73	112.35
1	cf	37	ILE	N-CA-C	7.82	121.73	112.35
1	cC	164	TYR	O-C-N	-7.82	113.96	122.09
1	cD	169	TYR	CA-C-N	7.82	130.75	120.28
1	cD	169	TYR	C-N-CA	7.82	130.75	120.28
1	cR	151	LEU	N-CA-C	7.82	120.79	111.33
1	d1	19	THR	N-CA-C	7.82	119.80	111.28
1	do	190	LEU	CA-C-N	7.82	130.41	120.56
1	do	190	LEU	C-N-CA	7.82	130.41	120.56
1	ds	187	GLU	N-CA-C	7.82	120.89	111.82
1	e5	62	HIS	ND1-CG-CD2	7.82	113.92	106.10
1	ea	39	MET	N-CA-C	7.82	119.88	111.36
1	ew	73	ILE	N-CA-C	7.82	118.59	110.62
1	f7	17	PRO	CA-C-N	7.82	131.07	120.44
1	f7	17	PRO	C-N-CA	7.82	131.07	120.44
1	f9	46	GLY	CA-C-N	7.82	131.81	120.71
1	f9	46	GLY	C-N-CA	7.82	131.81	120.71
1	g5	68	MET	CA-C-O	7.82	129.03	120.82
1	z	141	ILE	CA-C-N	7.82	130.41	120.56
1	z	141	ILE	C-N-CA	7.82	130.41	120.56
1	S	51	ASP	N-CA-C	7.82	120.79	111.33
1	W	42	ALA	N-CA-C	7.82	119.88	111.36
1	gQ	46	GLY	O-C-N	-7.81	115.46	122.57
1	ko	185	MET	N-CA-C	7.81	119.43	111.07
1	lB	166	ASP	N-CA-C	7.81	120.49	111.11
1	2B	132	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	4x	146	SER	O-C-N	-7.81	114.34	121.30
1	60	91	ILE	CA-C-N	7.81	132.56	120.68
1	60	91	ILE	C-N-CA	7.81	132.56	120.68
1	7j	191	VAL	CA-C-N	7.81	130.75	120.28
1	7j	191	VAL	C-N-CA	7.81	130.75	120.28
1	b1	82	ARG	N-CA-C	7.81	119.88	111.36
1	df	18	ARG	CA-C-N	7.81	130.60	120.44
1	df	18	ARG	C-N-CA	7.81	130.60	120.44
1	eZ	29	GLU	O-C-N	-7.81	113.24	122.15
1	fP	84	HIS	CG-CD2-NE2	7.81	115.01	107.20
1	u	84	HIS	CE1-NE2-CD2	-7.81	101.19	109.00
1	gC	25	LYS	N-CA-C	7.81	119.80	111.28
1	gI	162	ARG	N-CA-C	7.81	119.80	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	id	98	GLU	O-C-N	-7.81	112.68	121.43
1	iR	146	SER	CA-C-O	-7.81	112.41	119.75
1	j6	78	ALA	O-C-N	-7.81	113.84	122.12
1	ke	172	LEU	N-CA-C	7.81	119.80	111.28
1	kJ	165	VAL	CA-C-N	7.81	130.59	120.44
1	kJ	165	VAL	C-N-CA	7.81	130.59	120.44
1	kK	228	ALA	CA-C-O	7.81	130.08	121.56
1	kP	111	LEU	CA-C-N	7.81	130.75	120.28
1	kP	111	LEU	C-N-CA	7.81	130.75	120.28
1	3o	182	LYS	N-CA-C	7.81	119.80	111.28
1	4O	180	GLU	CA-C-O	7.81	128.83	120.55
1	4X	185	MET	N-CA-C	7.81	119.80	111.28
1	5l	168	PHE	CA-CB-CG	7.81	121.61	113.80
1	5w	68	MET	CA-C-N	7.81	130.96	120.65
1	5w	68	MET	C-N-CA	7.81	130.96	120.65
1	5A	206	GLY	O-C-N	-7.81	113.96	121.77
1	5K	217	ALA	CA-C-N	7.81	133.99	122.74
1	5K	217	ALA	C-N-CA	7.81	133.99	122.74
1	5V	48	THR	N-CA-CB	7.81	120.43	110.04
1	6H	142	VAL	O-C-N	-7.81	114.25	121.91
1	79	125	PRO	N-CA-CB	-7.81	95.05	103.25
1	8e	220	GLY	CA-C-N	7.81	132.88	123.19
1	8e	220	GLY	C-N-CA	7.81	132.88	123.19
1	8A	162	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	9a	105	ALA	CA-C-O	7.81	128.93	120.10
1	9C	79	GLU	CA-C-N	7.81	130.75	120.28
1	9C	79	GLU	C-N-CA	7.81	130.75	120.28
1	an	143	ARG	NE-CZ-NH2	-7.81	112.17	119.20
1	ao	55	MET	N-CA-C	7.81	119.43	111.07
1	bt	53	ASN	O-C-N	-7.81	113.84	122.12
1	cz	130	TYR	CA-C-N	7.81	131.08	120.38
1	cz	130	TYR	C-N-CA	7.81	131.08	120.38
1	dI	100	ARG	CA-C-N	7.81	128.82	119.99
1	dI	100	ARG	C-N-CA	7.81	128.82	119.99
1	dL	57	ASN	N-CA-C	7.81	123.11	113.50
1	e3	210	THR	CA-C-N	7.81	131.53	120.28
1	e3	210	THR	C-N-CA	7.81	131.53	120.28
1	eF	128	GLU	CA-C-O	7.81	129.01	119.79
1	eO	69	LEU	N-CA-C	7.81	119.80	111.28
1	fF	204	ALA	CA-C-O	7.81	129.02	120.82
1	1B	195	ASN	OD1-CG-ND2	-7.81	114.79	122.60
1	1C	57	ASN	OD1-CG-ND2	7.81	130.41	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hb	121	ASN	OD1-CG-ND2	-7.81	114.79	122.60
1	iM	163	ASP	CA-C-O	7.81	128.70	120.42
1	3E	68	MET	CA-C-N	7.81	130.59	120.44
1	3E	68	MET	C-N-CA	7.81	130.59	120.44
1	46	148	THR	O-C-N	-7.81	114.27	123.41
1	6J	86	VAL	O-C-N	-7.81	114.98	123.03
1	75	124	ILE	O-C-N	-7.81	114.78	121.57
1	ch	55	MET	N-CA-C	7.81	119.79	111.28
1	dF	162	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	f4	70	LYS	N-CA-C	7.81	119.79	111.28
1	gv	198	CYS	CA-C-N	7.81	131.08	120.54
1	gv	198	CYS	C-N-CA	7.81	131.08	120.54
1	hA	184	TRP	CA-C-N	7.81	130.74	120.28
1	hA	184	TRP	C-N-CA	7.81	130.74	120.28
1	ia	12	HIS	CA-C-O	7.81	129.13	120.70
1	iq	74	ASN	CA-CB-CG	7.81	120.41	112.60
1	l4	21	ASN	CA-CB-CG	7.81	120.41	112.60
1	lC	225	GLY	O-C-N	-7.81	116.08	122.64
1	2B	139	ASN	N-CA-C	7.81	119.79	111.28
1	2O	20	LEU	N-CA-CB	7.81	121.60	110.12
1	3f	27	VAL	O-C-N	-7.81	113.98	121.87
1	3R	143	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	4i	215	MET	N-CA-C	7.81	120.69	111.71
1	4x	67	GLN	O-C-N	-7.81	113.84	122.12
1	4T	162	ARG	N-CA-C	7.81	119.79	111.28
1	5p	111	LEU	N-CA-C	7.81	119.79	111.28
1	5R	18	ARG	NE-CZ-NH2	7.81	126.23	119.20
1	7b	162	ARG	CA-C-O	-7.81	112.27	120.55
1	7i	220	GLY	CA-C-N	7.81	131.27	120.49
1	7i	220	GLY	C-N-CA	7.81	131.27	120.49
1	7l	62	HIS	CA-C-N	7.81	132.18	120.31
1	7l	62	HIS	C-N-CA	7.81	132.18	120.31
1	7r	134	ILE	N-CA-C	7.81	117.92	110.42
1	7O	61	GLY	O-C-N	-7.81	112.55	122.70
1	9R	73	ILE	N-CA-CB	7.81	119.69	110.55
1	bj	87	HIS	N-CA-C	7.81	121.56	110.23
1	ep	13	GLN	O-C-N	-7.81	114.21	123.27
1	f5	229	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	k	44	SER	O-C-N	-7.81	112.75	122.35
1	gI	114	GLN	N-CA-C	7.81	119.87	111.36
1	h0	102	SER	N-CA-C	7.81	120.69	111.71
1	iU	147	PRO	N-CA-CB	-7.81	97.64	102.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j9	82	ARG	N-CA-C	7.81	119.57	111.14
1	jh	190	LEU	N-CA-C	7.81	120.88	111.82
1	jE	162	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	lN	9	GLN	CA-C-N	7.81	131.83	120.82
1	lN	9	GLN	C-N-CA	7.81	131.83	120.82
1	2H	159	GLU	N-CA-C	7.81	119.17	109.57
1	3r	229	ARG	CA-C-N	-7.81	113.27	122.95
1	3r	229	ARG	C-N-CA	-7.81	113.27	122.95
1	3I	97	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	4s	126	VAL	N-CA-C	7.81	117.92	110.42
1	4T	185	MET	CA-C-O	-7.81	112.27	120.55
1	52	213	GLU	N-CA-C	7.81	119.79	111.28
1	6D	112	GLN	N-CA-C	7.81	120.88	111.82
1	7i	223	GLY	O-C-N	-7.81	113.96	121.77
1	7j	14	ALA	CA-C-N	7.81	131.60	120.98
1	7j	14	ALA	C-N-CA	7.81	131.60	120.98
1	7M	63	GLN	N-CA-C	7.81	119.79	111.28
1	9j	7	GLN	N-CA-C	7.81	121.25	108.52
1	9o	139	ASN	CA-C-O	7.81	128.83	120.55
1	c6	213	GLU	CA-C-O	7.81	128.69	120.42
1	cq	217	ALA	N-CA-C	7.81	121.55	110.23
1	cE	159	GLU	N-CA-C	7.81	120.98	109.50
1	1g	78	ALA	N-CA-C	7.81	119.79	111.28
1	di	25	LYS	N-CA-C	7.81	119.79	111.28
1	eI	170	LYS	N-CA-C	7.81	119.87	111.36
1	eP	190	LEU	N-CA-C	7.81	120.88	111.82
1	f0	213	GLU	N-CA-C	7.81	119.79	111.28
1	p	229	ARG	NE-CZ-NH2	-7.81	112.17	119.20
1	v	16	SER	O-C-N	-7.81	114.67	121.31
1	D	69	LEU	CA-C-N	7.81	131.08	120.38
1	D	69	LEU	C-N-CA	7.81	131.08	120.38
1	F	198	CYS	CA-C-N	7.81	132.18	120.31
1	F	198	CYS	C-N-CA	7.81	132.18	120.31
1	gQ	124	ILE	N-CA-C	-7.81	98.83	107.73
1	jE	195	ASN	N-CA-C	7.81	119.55	109.64
1	jG	26	VAL	O-C-N	-7.81	114.30	121.87
1	jP	169	TYR	N-CA-C	7.81	123.10	113.50
1	lq	6	LEU	CA-C-O	7.81	128.95	119.97
1	35	139	ASN	OD1-CG-ND2	-7.81	114.79	122.60
1	4e	169	TYR	CB-CG-CD1	-7.81	109.09	120.80
1	55	26	VAL	O-C-N	-7.81	112.98	121.80
1	6F	144	MET	N-CA-C	7.81	119.79	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6N	224	PRO	CB-CA-C	7.81	121.18	110.95
1	7v	162	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	81	67	GLN	O-C-N	-7.81	113.85	122.12
1	83	211	LEU	N-CA-C	7.81	119.79	111.28
1	aR	77	ALA	CA-C-N	7.81	130.74	120.28
1	aR	77	ALA	C-N-CA	7.81	130.74	120.28
1	18	195	ASN	O-C-N	-7.81	114.35	121.30
1	dQ	154	ARG	NE-CZ-NH1	7.81	129.31	121.50
1	e1	55	MET	O-C-N	7.81	130.39	122.12
1	ib	218	CYS	CA-C-N	7.80	132.99	122.84
1	ib	218	CYS	C-N-CA	7.80	132.99	122.84
1	jc	92	GLU	CA-C-N	7.80	129.59	119.84
1	jc	92	GLU	C-N-CA	7.80	129.59	119.84
1	kq	95	GLN	CA-C-O	7.80	128.98	120.71
1	kw	18	ARG	NE-CZ-NH2	-7.80	112.18	119.20
1	kL	4	GLN	CA-C-N	7.80	133.74	122.35
1	kL	4	GLN	C-N-CA	7.80	133.74	122.35
1	lC	193	ASN	CB-CA-C	-7.80	98.45	111.02
1	lG	104	ILE	N-CA-C	7.80	117.91	110.42
1	2P	25	LYS	N-CA-C	7.80	119.42	111.07
1	3B	63	GLN	N-CA-C	7.80	119.79	111.28
1	3B	151	LEU	CA-C-N	7.80	133.75	120.72
1	3B	151	LEU	C-N-CA	7.80	133.75	120.72
1	5j	96	MET	CA-C-O	7.80	128.98	120.71
1	6x	35	GLU	N-CA-C	-7.80	102.84	113.30
1	6x	143	ARG	CA-C-O	7.80	128.69	120.42
1	6V	50	GLN	OE1-CD-NE2	7.80	130.41	122.60
1	7r	138	LEU	N-CA-C	7.80	119.42	111.07
1	8q	92	GLU	CA-C-N	7.80	127.82	119.78
1	8q	92	GLU	C-N-CA	7.80	127.82	119.78
1	9t	168	PHE	CA-CB-CG	7.80	121.60	113.80
1	an	167	ARG	CA-C-N	7.80	131.08	120.54
1	an	167	ARG	C-N-CA	7.80	131.08	120.54
1	bT	33	SER	O-C-N	-7.80	112.18	121.39
1	cT	36	VAL	N-CA-C	7.80	118.56	110.36
1	d5	117	TRP	N-CA-C	7.80	119.79	111.28
1	dV	9	GLN	OE1-CD-NE2	-7.80	114.80	122.60
1	e6	37	ILE	O-C-N	-7.80	115.42	120.42
1	eB	24	VAL	N-CA-C	7.80	120.85	111.09
1	fb	209	ALA	N-CA-C	7.80	120.66	110.43
1	fp	82	ARG	N-CA-C	7.80	120.48	111.11
1	g	226	HIS	ND1-CE1-NE2	7.80	116.20	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gI	63	GLN	N-CA-C	7.80	119.78	111.28
1	gV	74	ASN	CA-CB-CG	-7.80	104.80	112.60
1	hs	121	ASN	CA-C-O	-7.80	111.45	119.49
1	iY	51	ASP	CA-C-N	7.80	131.37	120.29
1	iY	51	ASP	C-N-CA	7.80	131.37	120.29
1	l2	119	THR	CA-C-N	7.80	131.79	120.71
1	l2	119	THR	C-N-CA	7.80	131.79	120.71
1	2x	85	PRO	CA-C-N	7.80	133.44	120.64
1	2x	85	PRO	C-N-CA	7.80	133.44	120.64
1	2D	97	ARG	N-CA-C	7.80	121.50	110.50
1	2R	169	TYR	CG-CD1-CE1	-7.80	109.50	121.20
1	5E	154	ARG	NE-CZ-NH2	-7.80	112.18	119.20
1	6g	63	GLN	CA-C-N	7.80	131.37	120.29
1	6g	63	GLN	C-N-CA	7.80	131.37	120.29
1	6T	89	GLY	CA-C-N	7.80	129.59	119.84
1	6T	89	GLY	C-N-CA	7.80	129.59	119.84
1	7U	40	PHE	CA-CB-CG	-7.80	106.00	113.80
1	96	208	ALA	CA-C-N	7.80	133.67	121.26
1	96	208	ALA	C-N-CA	7.80	133.67	121.26
1	9j	112	GLN	CA-C-N	7.80	130.74	120.28
1	9j	112	GLN	C-N-CA	7.80	130.74	120.28
1	aM	68	MET	N-CA-C	7.80	119.78	111.28
1	cp	132	ARG	NE-CZ-NH1	7.80	129.30	121.50
1	dJ	27	VAL	N-CA-C	7.80	118.58	110.62
1	gm	97	ARG	N-CA-C	7.80	120.96	110.35
1	hI	88	ALA	N-CA-CB	-7.80	100.11	110.88
1	it	80	TRP	N-CA-C	7.80	119.78	111.28
1	jj	139	ASN	OD1-CG-ND2	-7.80	114.80	122.60
1	kZ	130	TYR	CA-C-N	7.80	130.73	120.28
1	kZ	130	TYR	C-N-CA	7.80	130.73	120.28
1	l0	53	ASN	CA-CB-CG	7.80	120.40	112.60
1	26	218	CYS	CA-C-O	7.80	130.89	121.84
1	2s	226	HIS	CE1-NE2-CD2	-7.80	101.20	109.00
1	2w	15	ILE	O-C-N	-7.80	115.22	122.79
1	2Q	219	GLN	N-CA-C	7.80	120.38	110.24
1	4u	226	HIS	N-CA-C	7.80	121.54	110.23
1	64	120	HIS	CA-CB-CG	7.80	121.60	113.80
1	6k	40	PHE	N-CA-C	7.80	119.42	111.07
1	81	48	THR	CA-C-N	7.80	129.59	119.84
1	81	48	THR	C-N-CA	7.80	129.59	119.84
1	8J	123	PRO	CA-C-N	7.80	127.91	122.60
1	8J	123	PRO	C-N-CA	7.80	127.91	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9B	82	ARG	CA-C-N	7.80	130.73	120.28
1	9B	82	ARG	C-N-CA	7.80	130.73	120.28
1	aA	166	ASP	CA-C-N	7.80	130.73	120.28
1	aA	166	ASP	C-N-CA	7.80	130.73	120.28
1	aZ	70	LYS	N-CA-C	7.80	119.86	111.36
1	cG	189	LEU	N-CA-C	7.80	121.74	111.75
1	d3	34	PRO	O-C-N	7.80	131.61	122.17
1	dA	158	LYS	CA-C-O	7.80	128.04	119.15
1	e4	176	GLN	OE1-CD-NE2	-7.80	114.80	122.60
1	ea	132	ARG	CA-C-O	-7.80	112.28	120.55
1	eU	103	ASP	CA-C-N	7.80	130.39	120.56
1	eU	103	ASP	C-N-CA	7.80	130.39	120.56
1	f1	113	GLU	N-CA-C	7.80	119.86	111.36
1	fL	117	TRP	CA-C-N	7.80	130.73	120.28
1	fL	117	TRP	C-N-CA	7.80	130.73	120.28
1	fM	18	ARG	O-C-N	-7.80	113.85	122.12
1	g7	159	GLU	O-C-N	-7.80	112.35	121.32
1	q	42	ALA	N-CA-C	7.80	119.57	111.14
1	q	63	GLN	N-CA-C	7.80	119.42	111.07
1	5	132	ARG	NE-CZ-NH1	7.80	129.30	121.50
1	5	206	GLY	CA-C-N	7.80	129.59	119.84
1	5	206	GLY	C-N-CA	7.80	129.59	119.84
1	1C	214	MET	CA-C-N	7.80	130.73	120.28
1	1C	214	MET	C-N-CA	7.80	130.73	120.28
1	gK	171	THR	CA-C-N	7.80	131.07	120.38
1	gK	171	THR	C-N-CA	7.80	131.07	120.38
1	1O	86	VAL	N-CA-C	7.80	119.46	108.93
1	iI	114	GLN	O-C-N	-7.80	114.04	122.07
1	iS	98	GLU	CA-C-O	-7.80	112.82	119.76
1	ji	153	ILE	N-CA-C	7.80	119.90	109.37
1	jJ	120	HIS	CA-CB-CG	7.80	121.60	113.80
1	kx	22	ALA	N-CA-C	7.80	119.78	111.28
1	2s	202	LEU	O-C-N	-7.80	113.26	122.15
1	3E	178	SER	CA-C-N	7.80	130.58	120.44
1	3E	178	SER	C-N-CA	7.80	130.58	120.44
1	4v	84	HIS	CA-C-N	7.80	127.86	119.90
1	4v	84	HIS	C-N-CA	7.80	127.86	119.90
1	4U	161	PHE	CA-CB-CG	-7.80	106.00	113.80
1	5x	55	MET	O-C-N	-7.80	113.98	122.09
1	5V	36	VAL	N-CA-C	7.80	118.58	110.62
1	67	214	MET	N-CA-C	7.80	119.78	111.28
1	7E	204	ALA	N-CA-C	7.80	119.86	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	146	SER	CA-C-O	-7.80	113.26	119.66
1	8i	197	ASP	CA-C-N	7.80	130.73	120.28
1	8i	197	ASP	C-N-CA	7.80	130.73	120.28
1	8I	91	ILE	N-CA-CB	7.80	119.89	111.00
1	9r	159	GLU	CA-C-N	7.80	127.86	119.90
1	9r	159	GLU	C-N-CA	7.80	127.86	119.90
1	bI	45	GLU	N-CA-C	7.80	119.78	111.28
1	bM	56	LEU	CA-C-N	7.80	131.06	120.38
1	bM	56	LEU	C-N-CA	7.80	131.06	120.38
1	d8	140	LYS	CA-C-N	7.80	131.15	120.46
1	d8	140	LYS	C-N-CA	7.80	131.15	120.46
1	dh	94	GLY	CA-C-O	7.80	127.61	122.23
1	eQ	129	ILE	N-CA-C	7.80	117.86	110.53
1	fi	123	PRO	N-CA-CB	7.80	110.72	103.39
1	gq	229	ARG	O-C-N	-7.80	113.76	122.34
1	hG	57	ASN	N-CA-C	7.80	119.78	111.28
1	ib	12	HIS	ND1-CE1-NE2	7.80	116.20	108.40
1	iS	198	CYS	N-CA-C	7.80	119.78	111.28
1	jW	195	ASN	CA-C-N	7.80	127.35	119.24
1	jW	195	ASN	C-N-CA	7.80	127.35	119.24
1	2j	181	VAL	CA-C-N	7.80	130.73	120.28
1	2j	181	VAL	C-N-CA	7.80	130.73	120.28
1	3e	48	THR	N-CA-CB	7.80	118.79	109.74
1	a5	195	ASN	CA-CB-CG	7.80	120.40	112.60
1	bc	217	ALA	CA-C-O	-7.80	112.61	121.19
1	bH	216	THR	CA-C-O	7.80	128.38	119.18
1	bN	186	THR	CB-CA-C	-7.80	97.59	110.85
1	bU	67	GLN	N-CA-C	7.80	119.78	111.28
1	dC	51	ASP	CA-C-N	7.80	130.58	120.44
1	dC	51	ASP	C-N-CA	7.80	130.58	120.44
1	e6	115	ILE	CA-C-O	7.80	129.16	121.05
1	1q	89	GLY	CA-C-N	7.80	129.59	119.84
1	1q	89	GLY	C-N-CA	7.80	129.59	119.84
1	hg	188	THR	CA-C-N	7.80	136.43	121.54
1	hg	188	THR	C-N-CA	7.80	136.43	121.54
1	1J	11	VAL	CA-C-O	7.80	128.62	120.36
1	iP	225	GLY	O-C-N	-7.80	116.11	122.81
1	j3	19	THR	N-CA-C	7.80	119.56	111.14
1	j3	143	ARG	NE-CZ-NH1	7.80	129.30	121.50
1	jC	62	HIS	N-CA-C	7.80	122.15	111.39
1	kf	228	ALA	CA-C-O	7.80	129.77	121.19
1	kt	105	ALA	CA-C-N	7.80	132.53	122.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	105	ALA	C-N-CA	7.80	132.53	122.00
1	2D	89	GLY	CA-C-N	7.80	127.84	119.89
1	2D	89	GLY	C-N-CA	7.80	127.84	119.89
1	3k	139	ASN	O-C-N	-7.80	113.86	122.12
1	3R	143	ARG	CA-C-O	7.80	128.91	120.10
1	49	97	ARG	O-C-N	-7.80	113.38	122.89
1	4D	195	ASN	CA-CB-CG	7.80	120.40	112.60
1	5X	139	ASN	CA-C-N	7.80	130.58	120.44
1	5X	139	ASN	C-N-CA	7.80	130.58	120.44
1	61	114	GLN	N-CA-C	7.80	119.78	111.28
1	6d	143	ARG	NE-CZ-NH2	-7.80	112.18	119.20
1	6y	116	GLY	N-CA-C	7.80	122.08	112.64
1	78	131	LYS	N-CA-C	7.80	120.68	111.71
1	7G	163	ASP	CA-C-O	7.80	128.94	119.97
1	8k	129	ILE	N-CA-CB	7.80	119.16	110.51
1	al	135	ILE	CA-C-O	7.80	129.06	120.95
1	al	178	SER	CA-C-N	7.80	130.73	120.28
1	al	178	SER	C-N-CA	7.80	130.73	120.28
1	aH	61	GLY	O-C-N	-7.80	115.83	122.92
1	aX	178	SER	N-CA-C	7.80	121.54	110.23
1	b0	21	ASN	CA-CB-CG	-7.80	104.80	112.60
1	b0	27	VAL	O-C-N	-7.80	114.25	121.89
1	cy	113	GLU	CA-C-N	7.80	130.94	120.65
1	cy	113	GLU	C-N-CA	7.80	130.94	120.65
1	eu	193	ASN	CA-C-O	7.80	128.71	119.28
1	fy	32	PHE	CA-CB-CG	-7.80	106.00	113.80
1	a	213	GLU	N-CA-C	7.80	119.56	111.14
1	k	154	ARG	NH1-CZ-NH2	-7.80	109.17	119.30
1	K	202	LEU	N-CA-C	7.80	119.78	111.28
1	gI	15	ILE	CA-C-O	7.79	129.93	121.04
1	hO	89	GLY	CA-C-N	7.79	129.58	119.84
1	hO	89	GLY	C-N-CA	7.79	129.58	119.84
1	2i	21	ASN	CA-C-N	7.79	130.57	120.44
1	2i	21	ASN	C-N-CA	7.79	130.57	120.44
1	3P	133	TRP	CB-CG-CD1	7.79	138.59	126.90
1	4B	164	TYR	N-CA-C	7.79	119.41	111.07
1	6b	184	TRP	CA-C-N	7.79	130.72	120.28
1	6b	184	TRP	C-N-CA	7.79	130.72	120.28
1	6u	154	ARG	NE-CZ-NH2	-7.79	112.18	119.20
1	7C	192	GLN	OE1-CD-NE2	-7.79	114.81	122.60
1	82	37	ILE	N-CA-CB	7.79	115.41	110.50
1	83	172	LEU	CA-C-N	7.79	130.72	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	83	172	LEU	C-N-CA	7.79	130.72	120.28
1	8r	166	ASP	CA-C-N	7.79	130.72	120.28
1	8r	166	ASP	C-N-CA	7.79	130.72	120.28
1	9Q	225	GLY	O-C-N	-7.79	115.36	122.77
1	aa	147	PRO	N-CA-CB	-7.79	96.28	102.36
1	aw	63	GLN	N-CA-C	7.79	122.05	112.54
1	by	5	ASN	CA-CB-CG	7.79	120.39	112.60
1	bz	31	ALA	N-CA-C	7.79	120.67	111.71
1	cU	230	VAL	N-CA-C	-7.79	104.93	113.43
1	cZ	98	GLU	O-C-N	-7.79	113.48	121.28
1	1n	98	GLU	CA-C-N	7.79	128.25	119.83
1	1n	98	GLU	C-N-CA	7.79	128.25	119.83
1	1z	82	ARG	NE-CZ-NH1	7.79	129.29	121.50
1	q	57	ASN	OD1-CG-ND2	-7.79	114.81	122.60
1	gE	129	ILE	CA-C-O	7.79	129.38	121.27
1	gK	72	THR	CA-C-O	7.79	128.73	120.70
1	gQ	35	GLU	CA-C-N	7.79	131.14	120.46
1	gQ	35	GLU	C-N-CA	7.79	131.14	120.46
1	gT	197	ASP	CA-CB-CG	7.79	120.39	112.60
1	gU	156	GLY	CA-C-N	7.79	127.34	118.85
1	gU	156	GLY	C-N-CA	7.79	127.34	118.85
1	id	180	GLU	CA-C-O	7.79	128.81	120.55
1	iW	135	ILE	CA-C-N	7.79	130.57	120.44
1	iW	135	ILE	C-N-CA	7.79	130.57	120.44
1	jj	117	TRP	N-CA-C	7.79	119.86	111.36
1	2u	113	GLU	O-C-N	-7.79	113.27	122.15
1	4u	90	PRO	CA-C-O	-7.79	112.46	121.34
1	5m	63	GLN	CA-C-O	-7.79	112.21	120.63
1	65	193	ASN	OD1-CG-ND2	7.79	130.39	122.60
1	6f	39	MET	CB-CA-C	7.79	123.12	110.88
1	86	93	PRO	CA-C-N	7.79	134.33	120.77
1	86	93	PRO	C-N-CA	7.79	134.33	120.77
1	ai	110	THR	CA-C-N	7.79	130.72	120.28
1	ai	110	THR	C-N-CA	7.79	130.72	120.28
1	at	184	TRP	N-CA-C	7.79	119.56	111.14
1	aD	184	TRP	O-C-N	-7.79	113.86	122.12
1	bI	95	GLN	OE1-CD-NE2	7.79	130.39	122.60
1	dm	182	LYS	CA-C-N	7.79	131.06	120.54
1	dm	182	LYS	C-N-CA	7.79	131.06	120.54
1	du	9	GLN	OE1-CD-NE2	-7.79	114.81	122.60
1	dw	217	ALA	N-CA-C	7.79	121.53	110.23
1	dE	130	TYR	N-CA-C	7.79	119.86	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fu	178	SER	N-CA-C	7.79	121.26	110.35
1	m	163	ASP	O-C-N	-7.79	113.86	122.12
1	S	186	THR	N-CA-CB	7.79	122.22	110.22
1	gi	48	THR	N-CA-CB	7.79	120.56	110.04
1	h0	12	HIS	CB-CG-CD2	-7.79	121.07	131.20
1	hs	36	VAL	CA-C-N	7.79	126.56	120.33
1	hs	36	VAL	C-N-CA	7.79	126.56	120.33
1	20	5	ASN	CA-CB-CG	7.79	120.39	112.60
1	ln	43	LEU	CA-C-O	7.79	128.17	118.43
1	lB	229	ARG	NE-CZ-NH1	7.79	129.29	121.50
1	2a	140	LYS	O-C-N	-7.79	113.86	122.12
1	2L	57	ASN	CA-C-O	7.79	128.45	119.18
1	2Z	213	GLU	CA-C-O	7.79	128.68	120.42
1	30	226	HIS	CB-CG-CD2	-7.79	121.07	131.20
1	3p	96	MET	N-CA-CB	7.79	121.49	110.04
1	4A	168	PHE	N-CA-C	7.79	119.41	111.07
1	4U	184	TRP	O-C-N	-7.79	113.86	122.12
1	5j	67	GLN	CA-C-N	7.79	131.35	120.29
1	5j	67	GLN	C-N-CA	7.79	131.35	120.29
1	6s	180	GLU	N-CA-C	7.79	120.76	111.33
1	9L	7	GLN	OE1-CD-NE2	-7.79	114.81	122.60
1	a9	90	PRO	CA-C-O	-7.79	112.70	121.43
1	bf	201	ILE	O-C-N	-7.79	114.28	121.91
1	bW	194	ALA	CA-C-N	7.79	131.22	120.39
1	bW	194	ALA	C-N-CA	7.79	131.22	120.39
1	cF	131	LYS	N-CA-C	7.79	119.77	111.28
1	dL	159	GLU	O-C-N	-7.79	115.47	121.55
1	dL	223	GLY	O-C-N	-7.79	113.98	121.77
1	1p	87	HIS	CE1-NE2-CD2	-7.79	101.21	109.00
1	fa	107	THR	CA-C-O	7.79	129.24	120.90
1	fz	229	ARG	NH1-CZ-NH2	7.79	129.43	119.30
1	fX	95	GLN	OE1-CD-NE2	-7.79	114.81	122.60
1	g3	82	ARG	NE-CZ-NH1	7.79	129.29	121.50
1	hb	182	LYS	CA-C-N	7.79	130.57	120.44
1	hb	182	LYS	C-N-CA	7.79	130.57	120.44
1	k8	33	SER	CA-C-N	7.79	129.58	119.84
1	k8	33	SER	C-N-CA	7.79	129.58	119.84
1	kG	219	GLN	N-CA-C	7.79	120.94	110.35
1	4g	100	ARG	NE-CZ-NH1	7.79	129.29	121.50
1	4L	45	GLU	N-CA-C	7.79	122.17	110.64
1	6Q	126	VAL	CA-C-N	7.79	128.57	120.00
1	6Q	126	VAL	C-N-CA	7.79	128.57	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7N	130	TYR	O-C-N	-7.79	113.27	122.15
1	85	226	HIS	CA-CB-CG	7.79	121.59	113.80
1	92	210	THR	O-C-N	-7.79	113.91	122.79
1	bi	75	GLU	CA-C-N	7.79	131.35	120.29
1	bi	75	GLU	C-N-CA	7.79	131.35	120.29
1	c3	27	VAL	N-CA-C	7.79	118.57	110.62
1	f5	62	HIS	CA-CB-CG	-7.79	106.01	113.80
1	1B	36	VAL	CA-C-N	7.79	126.56	120.33
1	1B	36	VAL	C-N-CA	7.79	126.56	120.33
1	hC	63	GLN	N-CA-C	7.79	119.77	111.28
1	hP	4	GLN	N-CA-C	7.79	120.02	110.91
1	ic	27	VAL	O-C-N	-7.79	114.32	121.87
1	ih	229	ARG	CG-CD-NE	-7.79	94.86	112.00
1	ii	62	HIS	CA-CB-CG	-7.79	106.01	113.80
1	iA	120	HIS	CA-CB-CG	7.79	121.59	113.80
1	j9	75	GLU	N-CA-C	7.79	120.86	111.82
1	jB	12	HIS	CA-CB-CG	7.79	121.59	113.80
1	jO	225	GLY	CA-C-N	7.79	132.27	120.82
1	jO	225	GLY	C-N-CA	7.79	132.27	120.82
1	kK	204	ALA	N-CA-C	7.79	122.04	112.54
1	lC	101	GLY	CA-C-N	7.79	130.72	120.28
1	lC	101	GLY	C-N-CA	7.79	130.72	120.28
1	lC	104	ILE	O-C-N	-7.79	114.28	121.91
1	lI	27	VAL	O-C-N	-7.79	114.00	121.87
1	2o	226	HIS	CE1-NE2-CD2	-7.79	101.21	109.00
1	2U	191	VAL	CA-C-O	7.79	128.66	120.25
1	3a	69	LEU	CA-C-N	7.79	131.05	120.38
1	3a	69	LEU	C-N-CA	7.79	131.05	120.38
1	4I	100	ARG	NE-CZ-NH2	7.79	126.21	119.20
1	56	172	LEU	N-CA-C	7.79	119.77	111.28
1	5R	201	ILE	N-CA-C	7.79	117.90	110.42
1	6p	67	GLN	O-C-N	-7.79	113.27	122.15
1	6K	57	ASN	CA-CB-CG	-7.79	104.81	112.60
1	6X	10	MET	CG-SD-CE	-7.79	83.77	100.90
1	7b	21	ASN	N-CA-C	7.79	119.77	111.28
1	7U	154	ARG	CA-C-N	7.79	133.59	121.99
1	7U	154	ARG	C-N-CA	7.79	133.59	121.99
1	8j	121	ASN	O-C-N	-7.79	115.10	121.80
1	9i	97	ARG	N-CA-C	7.79	120.63	110.43
1	an	87	HIS	CG-CD2-NE2	7.79	114.99	107.20
1	aS	120	HIS	N-CA-C	7.79	120.38	110.33
1	aT	107	THR	CA-C-O	7.79	127.71	119.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c6	140	LYS	N-CA-C	7.79	119.40	111.07
1	ck	18	ARG	CA-C-O	7.79	128.68	120.42
1	cU	76	GLU	N-CA-C	7.79	119.77	111.28
1	dJ	208	ALA	O-C-N	-7.79	113.83	121.85
1	eu	16	SER	O-C-N	-7.79	113.16	121.42
1	fn	53	ASN	O-C-N	-7.79	113.27	122.15
1	fJ	141	ILE	O-C-N	-7.79	114.28	121.91
1	g0	12	HIS	CA-CB-CG	-7.79	106.01	113.80
1	h	19	THR	CA-C-N	7.79	130.72	120.28
1	h	19	THR	C-N-CA	7.79	130.72	120.28
1	j	209	ALA	N-CA-C	7.79	121.22	110.24
1	2l	18	ARG	N-CA-C	7.79	120.67	111.71
1	2M	36	VAL	CA-C-N	7.79	126.56	120.33
1	2M	36	VAL	C-N-CA	7.79	126.56	120.33
1	5m	95	GLN	N-CA-C	7.79	120.94	110.35
1	5G	44	SER	O-C-N	-7.79	113.00	122.34
1	6M	170	LYS	N-CA-C	7.79	119.77	111.28
1	7D	140	LYS	N-CA-C	7.79	119.40	111.07
1	7E	170	LYS	CA-C-O	7.79	128.80	120.55
1	8h	223	GLY	CA-C-N	7.79	127.80	119.78
1	8h	223	GLY	C-N-CA	7.79	127.80	119.78
1	aE	178	SER	N-CA-C	7.79	120.36	110.24
1	aJ	198	CYS	CA-C-O	-7.79	111.60	120.24
1	bq	213	GLU	CA-C-O	7.79	129.00	120.82
1	eu	114	GLN	N-CA-C	7.79	119.77	111.28
1	eT	214	MET	N-CA-C	-7.79	102.87	111.36
1	g9	114	GLN	OE1-CD-NE2	-7.79	114.81	122.60
1	gj	147	PRO	CA-C-N	7.79	132.51	120.75
1	gj	147	PRO	C-N-CA	7.79	132.51	120.75
1	hA	131	LYS	N-CA-CB	-7.79	98.67	110.12
1	hP	125	PRO	CA-C-O	7.79	127.38	121.38
1	jg	154	ARG	NE-CZ-NH2	7.79	126.21	119.20
1	lp	166	ASP	CA-C-N	7.79	131.05	120.54
1	lp	166	ASP	C-N-CA	7.79	131.05	120.54
1	lu	212	GLU	CA-C-N	7.79	131.04	120.38
1	lu	212	GLU	C-N-CA	7.79	131.04	120.38
1	lJ	226	HIS	CA-CB-CG	-7.79	106.02	113.80
1	2y	106	GLY	CA-C-N	7.79	130.56	120.44
1	2y	106	GLY	C-N-CA	7.79	130.56	120.44
1	2C	48	THR	CA-C-O	-7.79	113.59	120.60
1	30	185	MET	N-CA-C	7.79	119.77	111.28
1	3w	20	LEU	CA-C-N	7.79	130.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3w	20	LEU	C-N-CA	7.79	130.56	120.44
1	3N	26	VAL	N-CA-CB	7.79	119.66	110.55
1	3V	37	ILE	O-C-N	-7.79	112.22	121.10
1	4C	194	ALA	N-CA-C	7.79	120.81	110.53
1	5r	201	ILE	O-C-N	-7.79	114.32	121.87
1	5C	129	ILE	N-CA-C	7.79	119.50	110.62
1	5H	191	VAL	CA-C-N	7.79	131.05	120.54
1	5H	191	VAL	C-N-CA	7.79	131.05	120.54
1	5V	23	TRP	CA-C-O	-7.79	112.30	120.55
1	5V	56	LEU	O-C-N	-7.79	113.27	122.15
1	6W	223	GLY	O-C-N	-7.79	113.98	121.77
1	8j	214	MET	CA-C-O	7.79	128.98	119.79
1	8G	199	LYS	O-C-N	-7.79	113.28	122.15
1	9d	121	ASN	OD1-CG-ND2	-7.79	114.81	122.60
1	a9	164	TYR	N-CA-C	7.79	120.45	111.11
1	ab	145	TYR	N-CA-C	7.79	120.45	111.11
1	c5	210	THR	N-CA-C	7.79	121.52	110.23
1	cg	188	THR	N-CA-C	7.79	119.45	110.97
1	dt	103	ASP	CA-CB-CG	7.79	120.39	112.60
1	du	163	ASP	N-CA-C	7.79	120.85	111.82
1	ey	22	ALA	N-CA-C	7.79	119.77	111.28
1	fb	147	PRO	N-CA-CB	7.79	108.37	101.83
1	fd	170	LYS	CA-C-N	7.79	131.34	120.29
1	fd	170	LYS	C-N-CA	7.79	131.34	120.29
1	fR	186	THR	N-CA-C	7.79	119.40	111.07
1	gs	190	LEU	N-CA-C	7.78	119.77	111.28
1	gN	62	HIS	ND1-CE1-NE2	7.78	116.18	108.40
1	hL	183	ASN	OD1-CG-ND2	-7.78	114.82	122.60
1	1T	21	ASN	CA-CB-CG	-7.78	104.82	112.60
1	jD	87	HIS	CE1-NE2-CD2	-7.78	101.22	109.00
1	k7	49	PRO	CA-C-N	7.78	130.71	120.28
1	k7	49	PRO	C-N-CA	7.78	130.71	120.28
1	kK	140	LYS	N-CA-C	7.78	119.84	111.36
1	kO	176	GLN	CB-CG-CD	-7.78	99.37	112.60
1	2j	80	TRP	O-C-N	-7.78	114.00	122.09
1	2F	100	ARG	NE-CZ-NH2	-7.78	112.19	119.20
1	3c	173	ARG	NE-CZ-NH1	7.78	129.28	121.50
1	3A	194	ALA	CA-C-N	7.78	131.21	120.39
1	3A	194	ALA	C-N-CA	7.78	131.21	120.39
1	4p	177	ALA	N-CA-C	7.78	120.36	110.24
1	5R	27	VAL	N-CA-CB	7.78	119.66	110.55
1	64	69	LEU	CA-C-N	7.78	131.34	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	64	69	LEU	C-N-CA	7.78	131.34	120.29
1	7q	162	ARG	CA-C-N	7.78	130.56	120.44
1	7q	162	ARG	C-N-CA	7.78	130.56	120.44
1	83	195	ASN	CA-C-N	7.78	128.19	119.32
1	83	195	ASN	C-N-CA	7.78	128.19	119.32
1	8b	129	ILE	CA-C-N	7.78	130.56	120.44
1	8b	129	ILE	C-N-CA	7.78	130.56	120.44
1	8E	219	GLN	OE1-CD-NE2	-7.78	114.82	122.60
1	8R	87	HIS	N-CA-C	7.78	120.81	110.53
1	90	27	VAL	N-CA-C	7.78	117.89	110.42
1	9N	101	GLY	CA-C-N	7.78	131.34	120.29
1	9N	101	GLY	C-N-CA	7.78	131.34	120.29
1	bZ	209	ALA	N-CA-C	7.78	121.24	109.41
1	c0	130	TYR	CB-CA-C	7.78	123.26	110.81
1	cm	147	PRO	N-CA-C	7.78	123.95	111.26
1	d1	222	GLY	O-C-N	-7.78	113.73	122.68
1	dp	63	GLN	O-C-N	-7.78	111.90	122.33
1	e7	93	PRO	N-CA-C	7.78	123.28	111.14
1	e8	10	MET	O-C-N	-7.78	113.30	122.95
1	eB	161	PHE	CB-CA-C	7.78	121.27	110.06
1	g3	162	ARG	CA-C-N	7.78	130.56	120.44
1	g3	162	ARG	C-N-CA	7.78	130.56	120.44
1	h2	7	GLN	N-CA-CB	7.78	122.84	110.23
1	hz	74	ASN	OD1-CG-ND2	-7.78	114.82	122.60
1	kB	94	GLY	O-C-N	-7.78	113.83	122.55
1	lc	159	GLU	CA-C-O	-7.78	113.47	119.46
1	3Z	230	VAL	N-CA-C	7.78	121.87	111.44
1	42	168	PHE	CA-CB-CG	7.78	121.58	113.80
1	6P	36	VAL	CA-C-N	7.78	126.56	120.33
1	6P	36	VAL	C-N-CA	7.78	126.56	120.33
1	72	63	GLN	N-CA-C	7.78	119.40	111.07
1	76	37	ILE	N-CA-CB	7.78	115.73	110.52
1	84	47	ALA	N-CA-C	7.78	121.03	109.59
1	8P	187	GLU	N-CA-C	7.78	119.76	111.28
1	9i	32	PHE	CA-CB-CG	-7.78	106.02	113.80
1	ai	195	ASN	N-CA-C	7.78	120.82	110.08
1	by	27	VAL	O-C-N	-7.78	114.32	121.87
1	ff	173	ARG	NE-CZ-NH2	-7.78	112.20	119.20
1	q	79	GLU	O-C-N	7.78	130.09	122.07
1	hi	27	VAL	CA-C-O	7.78	128.13	119.42
1	hA	148	THR	N-CA-C	7.78	121.51	110.23
1	hX	45	GLU	O-C-N	-7.78	113.24	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	28	84	HIS	CB-CG-CD2	-7.78	121.08	131.20
1	lu	82	ARG	N-CA-C	7.78	120.45	111.11
1	4i	121	ASN	O-C-N	-7.78	112.44	121.23
1	4A	192	GLN	N-CA-C	7.78	119.39	111.07
1	5f	74	ASN	N-CA-C	7.78	119.39	111.07
1	5j	40	PHE	CA-CB-CG	7.78	121.58	113.80
1	6h	202	LEU	N-CA-C	7.78	120.66	111.71
1	9Y	65	ALA	CA-C-N	7.78	130.71	120.28
1	9Y	65	ALA	C-N-CA	7.78	130.71	120.28
1	bi	126	VAL	CA-C-N	7.78	128.62	119.98
1	bi	126	VAL	C-N-CA	7.78	128.62	119.98
1	bq	115	ILE	N-CA-C	7.78	117.89	110.42
1	19	172	LEU	N-CA-CB	7.78	121.29	110.01
1	d9	12	HIS	ND1-CE1-NE2	7.78	116.18	108.40
1	dB	179	GLN	N-CA-C	7.78	120.74	111.33
1	ex	15	ILE	CA-CB-CG1	7.78	123.63	110.40
1	ex	67	GLN	CA-C-N	7.78	130.71	120.28
1	ex	67	GLN	C-N-CA	7.78	130.71	120.28
1	eQ	36	VAL	CA-C-N	7.78	127.90	120.43
1	eQ	36	VAL	C-N-CA	7.78	127.90	120.43
1	eY	223	GLY	O-C-N	-7.78	113.99	121.77
1	ff	112	GLN	CB-CG-CD	7.78	125.83	112.60
1	1z	100	ARG	NE-CZ-NH2	7.78	126.20	119.20
1	1B	70	LYS	N-CA-C	7.78	119.40	111.07
1	q	155	GLN	O-C-N	-7.78	113.30	122.87
1	O	88	ALA	O-C-N	-7.78	113.94	123.04
1	hy	195	ASN	CA-C-N	7.78	129.56	119.84
1	hy	195	ASN	C-N-CA	7.78	129.56	119.84
1	ij	99	PRO	CA-C-O	-7.78	112.54	121.56
1	jc	55	MET	N-CA-C	7.78	119.84	111.36
1	ko	80	TRP	N-CA-C	7.78	119.39	111.07
1	l3	159	GLU	CA-C-O	-7.78	113.47	119.46
1	lN	33	SER	O-C-N	-7.78	114.47	121.39
1	3Q	39	MET	CG-SD-CE	-7.78	83.79	100.90
1	3W	54	THR	CA-C-N	7.78	130.55	120.44
1	3W	54	THR	C-N-CA	7.78	130.55	120.44
1	8a	126	VAL	N-CA-C	7.78	118.56	110.62
1	9j	229	ARG	N-CA-C	7.78	119.39	111.07
1	Y	5	ASN	OD1-CG-ND2	-7.78	114.82	122.60
1	aZ	37	ILE	O-C-N	-7.78	115.44	120.42
1	ew	213	GLU	N-CA-C	7.78	119.84	111.36
1	eF	166	ASP	CA-CB-CG	7.78	120.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1E	119	THR	N-CA-CB	7.78	122.79	110.73
1	gH	12	HIS	ND1-CE1-NE2	7.78	116.18	108.40
1	h9	74	ASN	CA-CB-CG	-7.78	104.82	112.60
1	hF	178	SER	N-CA-C	7.78	120.80	110.53
1	i9	56	LEU	N-CA-C	7.78	120.44	111.11
1	id	13	GLN	CA-C-O	7.78	130.60	121.58
1	jD	47	ALA	N-CA-C	7.78	122.15	110.64
1	jY	169	TYR	CA-C-N	7.78	131.04	120.38
1	jY	169	TYR	C-N-CA	7.78	131.04	120.38
1	kZ	74	ASN	OD1-CG-ND2	-7.78	114.82	122.60
1	lb	128	GLU	N-CA-C	7.78	119.39	111.07
1	lq	41	SER	CA-C-N	7.78	130.70	120.28
1	lq	41	SER	C-N-CA	7.78	130.70	120.28
1	2c	167	ARG	N-CA-C	7.78	119.76	111.28
1	3q	66	MET	N-CA-C	7.78	119.39	111.07
1	6t	179	GLN	N-CA-CB	7.78	121.53	109.94
1	7I	22	ALA	CA-C-N	7.78	130.92	120.65
1	7I	22	ALA	C-N-CA	7.78	130.92	120.65
1	80	195	ASN	CA-C-N	7.78	127.33	119.24
1	80	195	ASN	C-N-CA	7.78	127.33	119.24
1	8C	128	GLU	O-C-N	7.78	131.02	122.15
1	8D	199	LYS	CA-C-N	7.78	130.55	120.44
1	8D	199	LYS	C-N-CA	7.78	130.55	120.44
1	9K	155	GLN	O-C-N	-7.78	114.48	123.27
1	di	37	ILE	CA-C-O	-7.78	113.48	118.69
1	e1	21	ASN	CA-CB-CG	7.78	120.38	112.60
1	e6	119	THR	N-CA-C	-7.78	103.35	112.92
1	eX	92	GLU	CA-C-O	-7.78	112.27	120.28
1	g5	138	LEU	CA-C-N	7.78	130.70	120.28
1	g5	138	LEU	C-N-CA	7.78	130.70	120.28
1	1B	226	HIS	CG-CD2-NE2	7.78	114.98	107.20
1	2	133	TRP	CA-C-O	7.78	128.79	120.55
1	E	73	ILE	CA-C-N	7.78	130.55	120.44
1	E	73	ILE	C-N-CA	7.78	130.55	120.44
1	P	167	ARG	NE-CZ-NH2	-7.78	112.20	119.20
1	gb	205	LEU	N-CA-C	7.78	120.84	111.82
1	gv	230	VAL	N-CA-C	7.78	120.14	109.80
1	gZ	143	ARG	N-CA-C	7.78	119.76	111.28
1	hb	7	GLN	OE1-CD-NE2	7.78	130.38	122.60
1	hm	210	THR	CA-C-O	-7.78	113.13	121.99
1	hu	126	VAL	N-CA-C	7.78	118.53	110.36
1	ji	110	THR	CA-C-N	7.78	131.04	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	110	THR	C-N-CA	7.78	131.04	120.54
1	jT	42	ALA	N-CA-C	7.78	119.39	111.07
1	l8	35	GLU	CA-C-N	7.78	131.11	120.46
1	l8	35	GLU	C-N-CA	7.78	131.11	120.46
1	lu	20	LEU	O-C-N	-7.78	114.00	122.09
1	lD	24	VAL	O-C-N	-7.78	114.29	121.91
1	39	228	ALA	N-CA-CB	-7.78	97.73	110.40
1	4j	63	GLN	N-CA-C	7.78	121.87	112.38
1	4q	33	SER	CA-C-N	7.78	127.83	119.28
1	4q	33	SER	C-N-CA	7.78	127.83	119.28
1	4z	115	ILE	CA-C-O	-7.78	112.61	120.85
1	4Q	27	VAL	N-CA-C	7.78	118.55	110.62
1	51	122	PRO	CA-C-N	7.78	129.56	119.84
1	51	122	PRO	C-N-CA	7.78	129.56	119.84
1	5p	62	HIS	CA-CB-CG	-7.78	106.02	113.80
1	5D	117	TRP	CA-C-O	-7.78	112.31	120.55
1	6f	161	PHE	CA-C-N	7.78	132.48	120.82
1	6f	161	PHE	C-N-CA	7.78	132.48	120.82
1	6p	202	LEU	CA-C-N	7.78	130.55	120.44
1	6p	202	LEU	C-N-CA	7.78	130.55	120.44
1	8n	123	PRO	CA-C-O	-7.78	112.72	121.43
1	9Z	125	PRO	CA-C-N	7.78	131.11	120.46
1	9Z	125	PRO	C-N-CA	7.78	131.11	120.46
1	aK	77	ALA	CA-C-N	7.78	130.70	120.28
1	aK	77	ALA	C-N-CA	7.78	130.70	120.28
1	aU	187	GLU	CA-C-O	7.78	128.66	120.42
1	cq	104	ILE	CA-C-O	7.78	129.04	120.95
1	cz	76	GLU	CA-C-N	7.78	130.55	120.44
1	cz	76	GLU	C-N-CA	7.78	130.55	120.44
1	cC	12	HIS	CB-CG-CD2	-7.78	121.09	131.20
1	e7	170	LYS	N-CA-C	7.78	119.84	111.36
1	R	141	ILE	N-CA-C	7.78	117.89	110.42
1	gy	41	SER	O-C-N	-7.77	114.00	122.09
1	1M	230	VAL	O-C-N	7.77	131.35	122.64
1	iJ	135	ILE	N-CA-C	7.77	118.55	110.62
1	iN	155	GLN	N-CA-C	7.77	121.23	110.35
1	jA	153	ILE	N-CA-CB	7.77	119.87	110.31
1	jN	172	LEU	O-C-N	-7.77	113.88	122.12
1	kt	88	ALA	N-CA-C	7.77	119.75	111.28
1	2w	48	THR	O-C-N	-7.77	112.82	121.53
1	3w	12	HIS	CE1-NE2-CD2	-7.77	101.23	109.00
1	3x	143	ARG	NE-CZ-NH2	-7.77	112.20	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3F	76	GLU	N-CA-CB	7.77	121.28	110.01
1	41	139	ASN	CA-CB-CG	7.77	120.37	112.60
1	4F	131	LYS	CA-C-N	7.77	131.33	120.29
1	4F	131	LYS	C-N-CA	7.77	131.33	120.29
1	6b	50	GLN	N-CA-C	7.77	119.75	111.28
1	6z	117	TRP	N-CA-C	7.77	120.65	111.71
1	7s	29	GLU	N-CA-C	7.77	120.84	111.82
1	94	226	HIS	CE1-NE2-CD2	-7.77	101.23	109.00
1	9A	210	THR	N-CA-C	7.77	121.46	110.50
1	ao	120	HIS	O-C-N	-7.77	112.25	122.59
1	bs	122	PRO	N-CA-C	7.77	120.19	110.70
1	cv	21	ASN	CA-CB-CG	7.77	120.37	112.60
1	dU	2	ILE	CA-C-O	-7.77	112.91	121.23
1	e4	129	ILE	CA-C-O	7.77	129.35	121.27
1	f3	62	HIS	CB-CG-ND1	-7.77	111.04	122.70
1	g8	84	HIS	ND1-CE1-NE2	7.77	116.17	108.40
1	gy	133	TRP	N-CA-C	7.77	119.75	111.28
1	gQ	175	GLU	CA-C-O	7.77	129.74	121.19
1	1G	59	VAL	CA-C-O	7.77	129.90	121.04
1	hN	79	GLU	N-CA-C	7.77	119.75	111.28
1	i7	46	GLY	CA-C-O	-7.77	110.57	118.96
1	1W	33	SER	CA-C-N	7.77	128.49	119.47
1	1W	33	SER	C-N-CA	7.77	128.49	119.47
1	jx	90	PRO	N-CA-CB	7.77	110.09	103.25
1	ko	62	HIS	N-CA-C	7.77	122.11	111.39
1	lI	73	ILE	N-CA-C	7.77	118.55	110.62
1	2t	193	ASN	CA-C-O	7.77	128.68	119.28
1	35	37	ILE	O-C-N	-7.77	115.45	120.42
1	3L	183	ASN	CA-CB-CG	-7.77	104.83	112.60
1	4v	91	ILE	N-CA-C	7.77	118.57	110.72
1	5z	11	VAL	N-CA-C	7.77	119.53	108.42
1	5Q	202	LEU	CA-C-O	7.77	128.79	120.55
1	6E	141	ILE	CA-C-N	7.77	131.11	120.46
1	6E	141	ILE	C-N-CA	7.77	131.11	120.46
1	6Z	199	LYS	O-C-N	-7.77	114.06	122.07
1	7t	129	ILE	CA-C-N	7.77	130.54	120.44
1	7t	129	ILE	C-N-CA	7.77	130.54	120.44
1	7F	154	ARG	CA-C-N	7.77	132.49	120.75
1	7F	154	ARG	C-N-CA	7.77	132.49	120.75
1	7S	173	ARG	NH1-CZ-NH2	-7.77	109.19	119.30
1	8b	16	SER	CA-C-O	-7.77	111.86	120.25
1	9Y	32	PHE	CA-CB-CG	-7.77	106.03	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Y	169	TYR	CA-C-N	7.77	130.54	120.44
1	9Y	169	TYR	C-N-CA	7.77	130.54	120.44
1	aq	193	ASN	O-C-N	-7.77	113.01	122.34
1	ch	142	VAL	O-C-N	-7.77	113.82	121.83
1	cs	122	PRO	CA-C-N	7.77	127.78	119.78
1	cs	122	PRO	C-N-CA	7.77	127.78	119.78
1	cs	162	ARG	N-CA-C	7.77	120.65	111.71
1	cx	120	HIS	CE1-NE2-CD2	-7.77	101.23	109.00
1	cZ	132	ARG	N-CA-C	7.77	119.75	111.28
1	f8	5	ASN	CB-CA-C	7.77	122.51	109.84
1	1x	151	LEU	CA-C-O	7.77	128.62	120.30
1	fP	147	PRO	CA-C-O	-7.77	112.58	121.36
1	hc	12	HIS	O-C-N	-7.77	113.41	122.89
1	1L	200	THR	CA-C-N	7.77	130.95	120.77
1	1L	200	THR	C-N-CA	7.77	130.95	120.77
1	iY	154	ARG	NH1-CZ-NH2	-7.77	109.20	119.30
1	jT	141	ILE	N-CA-C	7.77	117.88	110.42
1	km	77	ALA	N-CA-C	7.77	119.39	111.07
1	lI	185	MET	CA-C-N	7.77	130.54	120.44
1	lI	185	MET	C-N-CA	7.77	130.54	120.44
1	4a	55	MET	CA-C-N	7.77	130.69	120.28
1	4a	55	MET	C-N-CA	7.77	130.69	120.28
1	4Y	50	GLN	CA-C-O	7.77	129.22	120.90
1	6D	113	GLU	CA-C-N	7.77	130.54	120.44
1	6D	113	GLU	C-N-CA	7.77	130.54	120.44
1	6O	43	LEU	CA-C-O	7.77	128.98	120.82
1	aJ	176	GLN	CA-C-O	-7.77	112.24	120.40
1	aQ	48	THR	CA-C-N	7.77	128.49	119.47
1	aQ	48	THR	C-N-CA	7.77	128.49	119.47
1	hs	130	TYR	CA-C-N	7.77	131.03	120.54
1	hs	130	TYR	C-N-CA	7.77	131.03	120.54
1	ht	195	ASN	CA-C-N	7.77	127.32	118.85
1	ht	195	ASN	C-N-CA	7.77	127.32	118.85
1	hP	41	SER	N-CA-C	7.77	119.38	111.07
1	hR	191	VAL	O-C-N	-7.77	113.83	121.83
1	iG	111	LEU	N-CA-C	7.77	120.83	111.82
1	j5	14	ALA	CA-C-N	7.77	130.96	120.63
1	j5	14	ALA	C-N-CA	7.77	130.96	120.63
1	jf	6	LEU	O-C-N	-7.77	113.88	123.44
1	jy	59	VAL	N-CA-C	7.77	119.48	110.62
1	kz	170	LYS	N-CA-C	7.77	119.38	111.07
1	kP	226	HIS	CA-CB-CG	-7.77	106.03	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Z	82	ARG	NH1-CZ-NH2	-7.77	109.20	119.30
1	32	73	ILE	N-CA-C	7.77	119.48	110.62
1	3b	133	TRP	CA-C-N	7.77	130.35	120.56
1	3b	133	TRP	C-N-CA	7.77	130.35	120.56
1	3y	133	TRP	CA-C-N	7.77	130.35	120.56
1	3y	133	TRP	C-N-CA	7.77	130.35	120.56
1	4I	41	SER	N-CA-C	7.77	120.43	111.11
1	58	140	LYS	CA-C-N	7.77	131.10	120.46
1	58	140	LYS	C-N-CA	7.77	131.10	120.46
1	5l	136	LEU	N-CA-CB	7.77	121.28	110.01
1	5A	133	TRP	CB-CG-CD2	-7.77	115.92	126.80
1	7x	7	GLN	OE1-CD-NE2	-7.77	114.83	122.60
1	7F	103	ASP	CA-C-N	7.77	131.10	120.46
1	7F	103	ASP	C-N-CA	7.77	131.10	120.46
1	8i	64	ALA	N-CA-CB	-7.77	98.70	110.12
1	8E	92	GLU	CA-C-N	7.77	129.55	119.84
1	8E	92	GLU	C-N-CA	7.77	129.55	119.84
1	16	98	GLU	O-C-N	-7.77	112.98	121.53
1	b8	143	ARG	NE-CZ-NH1	7.77	129.27	121.50
1	bw	82	ARG	N-CA-C	7.77	119.75	111.28
1	bz	129	ILE	CA-C-N	7.77	130.54	120.44
1	bz	129	ILE	C-N-CA	7.77	130.54	120.44
1	cE	137	GLY	CA-C-N	7.77	130.69	120.28
1	cE	137	GLY	C-N-CA	7.77	130.69	120.28
1	e3	97	ARG	O-C-N	-7.77	113.25	122.81
1	eE	32	PHE	N-CA-C	-7.77	103.82	113.38
1	eQ	50	GLN	CA-C-N	7.77	130.69	120.28
1	eQ	50	GLN	C-N-CA	7.77	130.69	120.28
1	eS	156	GLY	CA-C-N	7.77	127.32	118.85
1	eS	156	GLY	C-N-CA	7.77	127.32	118.85
1	g6	53	ASN	CA-CB-CG	-7.77	104.83	112.60
1	O	185	MET	CA-C-N	7.77	130.69	120.28
1	O	185	MET	C-N-CA	7.77	130.69	120.28
1	gd	68	MET	CG-SD-CE	-7.77	83.81	100.90
1	gw	53	ASN	CA-CB-CG	-7.77	104.83	112.60
1	ha	158	LYS	N-CA-C	-7.77	103.62	113.72
1	ho	226	HIS	CA-C-O	7.77	129.32	120.54
1	hR	62	HIS	N-CA-C	7.77	122.11	111.39
1	i6	77	ALA	N-CA-C	7.77	119.75	111.28
1	jS	117	TRP	CB-CG-CD2	-7.77	115.93	126.80
1	kn	89	GLY	CA-C-N	7.77	127.81	119.89
1	kn	89	GLY	C-N-CA	7.77	127.81	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	62	HIS	CA-CB-CG	-7.77	106.03	113.80
1	kQ	31	ALA	N-CA-C	7.77	119.83	111.36
1	l0	185	MET	O-C-N	-7.77	114.07	122.07
1	2z	180	GLU	O-C-N	-7.77	113.89	122.12
1	3P	121	ASN	OD1-CG-ND2	-7.77	114.83	122.60
1	40	78	ALA	O-C-N	-7.77	113.30	122.15
1	4O	226	HIS	CE1-NE2-CD2	-7.77	101.23	109.00
1	5c	132	ARG	CA-C-N	7.77	131.32	120.29
1	5c	132	ARG	C-N-CA	7.77	131.32	120.29
1	5u	195	ASN	CB-CA-C	7.77	123.51	109.45
1	63	227	LYS	O-C-N	-7.77	113.69	122.86
1	64	130	TYR	CA-C-O	7.77	128.65	120.42
1	6Z	195	ASN	CA-C-N	7.77	128.18	119.32
1	6Z	195	ASN	C-N-CA	7.77	128.18	119.32
1	76	168	PHE	CA-CB-CG	7.77	121.57	113.80
1	7M	68	MET	CA-C-N	7.77	131.32	120.29
1	7M	68	MET	C-N-CA	7.77	131.32	120.29
1	7V	66	MET	CA-C-O	-7.77	112.67	120.82
1	96	25	LYS	N-CA-C	7.77	119.75	111.28
1	9M	117	TRP	CA-C-O	7.77	128.78	120.55
1	aC	179	GLN	OE1-CD-NE2	-7.77	114.83	122.60
1	bm	74	ASN	CA-C-N	7.77	130.54	120.44
1	bm	74	ASN	C-N-CA	7.77	130.54	120.44
1	bG	23	TRP	CA-C-O	7.77	128.98	120.82
1	bJ	192	GLN	CG-CD-OE1	7.77	136.34	120.80
1	bP	136	LEU	CA-C-N	7.77	128.41	119.94
1	bP	136	LEU	C-N-CA	7.77	128.41	119.94
1	bX	31	ALA	N-CA-CB	7.77	122.18	110.22
1	cb	179	GLN	N-CA-C	7.77	119.75	111.28
1	1g	90	PRO	N-CA-CB	-7.77	96.45	102.28
1	dg	128	GLU	N-CA-C	7.77	119.38	111.07
1	eK	186	THR	O-C-N	-7.77	112.72	122.27
1	1u	148	THR	O-C-N	-7.77	115.52	123.29
1	fc	36	VAL	CA-C-N	7.77	127.89	120.43
1	fc	36	VAL	C-N-CA	7.77	127.89	120.43
1	fn	23	TRP	N-CA-C	7.77	120.64	111.71
1	g5	14	ALA	N-CA-C	7.77	120.34	109.15
1	h	149	SER	N-CA-C	7.77	120.91	110.35
1	i	134	ILE	N-CA-C	7.77	117.88	110.42
1	s	64	ALA	N-CA-C	7.77	119.75	111.28
1	X	146	SER	O-C-N	-7.77	114.55	121.31
1	hW	98	GLU	CA-C-O	-7.77	112.85	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	200	THR	N-CA-CB	7.77	121.65	110.16
1	ja	98	GLU	CA-C-O	-7.77	112.85	119.76
1	5H	195	ASN	O-C-N	-7.77	114.39	121.30
1	5W	9	GLN	CB-CA-C	7.77	123.83	109.54
1	6T	14	ALA	N-CA-C	7.77	121.49	110.23
1	70	162	ARG	N-CA-C	7.77	119.75	111.28
1	7y	199	LYS	O-C-N	-7.77	113.89	122.12
1	aK	224	PRO	CA-C-N	7.77	130.08	120.22
1	aK	224	PRO	C-N-CA	7.77	130.08	120.22
1	b5	62	HIS	ND1-CE1-NE2	7.77	116.17	108.40
1	bw	92	GLU	CA-C-O	-7.77	113.19	119.71
1	ev	173	ARG	N-CA-C	7.77	119.75	111.28
1	eY	173	ARG	NE-CZ-NH2	7.77	126.19	119.20
1	b	75	GLU	CA-C-O	7.77	128.90	119.97
1	gA	14	ALA	O-C-N	-7.76	113.42	122.89
1	gO	9	GLN	CB-CG-CD	7.76	125.80	112.60
1	hy	87	HIS	CA-C-N	7.76	131.74	120.71
1	hy	87	HIS	C-N-CA	7.76	131.74	120.71
1	jj	82	ARG	NE-CZ-NH2	7.76	126.19	119.20
1	jG	171	THR	N-CA-C	7.76	119.38	111.07
1	kB	62	HIS	O-C-N	-7.76	113.54	122.86
1	kR	121	ASN	CA-CB-CG	7.76	120.36	112.60
1	lg	25	LYS	N-CA-C	7.76	120.43	111.11
1	3l	118	MET	CA-C-O	7.76	128.78	120.55
1	3R	161	PHE	CA-CB-CG	7.76	121.56	113.80
1	6n	214	MET	N-CA-C	7.76	119.38	111.07
1	7k	113	GLU	N-CA-C	7.76	119.74	111.28
1	7u	134	ILE	CA-C-N	7.76	131.10	120.46
1	7u	134	ILE	C-N-CA	7.76	131.10	120.46
1	7v	92	GLU	O-C-N	-7.76	116.74	121.71
1	7U	56	LEU	N-CA-C	7.76	120.72	111.33
1	8u	73	ILE	O-C-N	-7.76	114.30	121.91
1	at	201	ILE	O-C-N	-7.76	114.18	121.94
1	ay	229	ARG	NE-CZ-NH2	7.76	126.19	119.20
1	bl	205	LEU	N-CA-C	7.76	119.82	111.36
1	bC	13	GLN	CA-C-N	7.76	133.13	120.94
1	bC	13	GLN	C-N-CA	7.76	133.13	120.94
1	ci	50	GLN	O-C-N	-7.76	113.30	122.15
1	cH	9	GLN	OE1-CD-NE2	-7.76	114.83	122.60
1	cW	205	LEU	N-CA-C	-7.76	103.77	113.55
1	cX	62	HIS	O-C-N	-7.76	112.86	122.57
1	1k	83	LEU	N-CA-CB	7.76	121.53	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ey	143	ARG	NE-CZ-NH2	-7.76	112.21	119.20
1	gx	195	ASN	CA-C-N	7.76	129.54	119.84
1	gx	195	ASN	C-N-CA	7.76	129.54	119.84
1	iN	48	THR	CA-C-N	7.76	129.54	119.84
1	iN	48	THR	C-N-CA	7.76	129.54	119.84
1	iN	180	GLU	N-CA-C	7.76	119.82	111.36
1	kl	208	ALA	N-CA-C	7.76	120.64	111.71
1	kT	195	ASN	CA-CB-CG	7.76	120.36	112.60
1	3Y	121	ASN	OD1-CG-ND2	-7.76	114.84	122.60
1	4r	167	ARG	CA-C-N	7.76	131.02	120.54
1	4r	167	ARG	C-N-CA	7.76	131.02	120.54
1	7B	114	GLN	N-CA-C	7.76	120.72	111.33
1	8C	85	PRO	N-CA-CB	-7.76	97.06	102.73
1	9G	125	PRO	CA-C-N	7.76	130.34	120.56
1	9G	125	PRO	C-N-CA	7.76	130.34	120.56
1	ca	147	PRO	N-CA-C	7.76	128.46	112.47
1	dE	204	ALA	CA-C-N	7.76	130.68	120.28
1	dE	204	ALA	C-N-CA	7.76	130.68	120.28
1	dJ	62	HIS	ND1-CG-CD2	7.76	113.86	106.10
1	eT	167	ARG	NE-CZ-NH1	7.76	129.26	121.50
1	i	11	VAL	O-C-N	-7.76	113.84	122.69
1	h8	116	GLY	O-C-N	-7.76	114.74	122.19
1	ha	85	PRO	N-CA-C	7.76	123.45	111.11
1	hV	159	GLU	CA-C-O	-7.76	112.84	119.59
1	iM	139	ASN	N-CA-C	7.76	119.37	111.07
1	jj	63	GLN	OE1-CD-NE2	-7.76	114.84	122.60
1	lD	188	THR	CA-C-N	7.76	130.53	120.44
1	lD	188	THR	C-N-CA	7.76	130.53	120.44
1	2j	79	GLU	N-CA-C	7.76	119.74	111.28
1	2S	100	ARG	O-C-N	-7.76	113.60	122.68
1	3f	132	ARG	CA-C-N	7.76	130.68	120.28
1	3f	132	ARG	C-N-CA	7.76	130.68	120.28
1	3u	58	THR	CA-C-N	7.76	131.47	120.53
1	3u	58	THR	C-N-CA	7.76	131.47	120.53
1	3Y	169	TYR	N-CA-CB	7.76	121.53	110.12
1	4z	37	ILE	CA-C-O	-7.76	112.81	118.71
1	4Q	189	LEU	CA-C-N	7.76	131.02	120.54
1	4Q	189	LEU	C-N-CA	7.76	131.02	120.54
1	4Y	183	ASN	CA-CB-CG	7.76	120.36	112.60
1	6o	51	ASP	N-CA-C	7.76	120.82	111.82
1	6N	140	LYS	N-CA-C	7.76	119.52	111.14
1	7o	126	VAL	N-CA-C	7.76	118.54	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	56	LEU	N-CA-C	7.76	119.82	111.36
1	7y	213	GLU	CA-C-N	7.76	131.01	120.38
1	7y	213	GLU	C-N-CA	7.76	131.01	120.38
1	9A	36	VAL	N-CA-C	7.76	118.56	110.72
1	aU	153	ILE	O-C-N	-7.76	114.75	122.67
1	bb	187	GLU	O-C-N	-7.76	113.89	122.12
1	bg	214	MET	N-CA-C	7.76	119.74	111.28
1	cc	98	GLU	CA-C-O	7.76	125.44	119.46
1	cd	16	SER	CA-C-N	7.76	127.42	119.19
1	cd	16	SER	C-N-CA	7.76	127.42	119.19
1	dx	104	ILE	N-CA-C	7.76	118.54	110.62
1	dI	200	THR	O-C-N	-7.76	113.89	122.12
1	fg	47	ALA	N-CA-C	7.76	121.77	110.28
1	fm	66	MET	N-CA-C	7.76	120.82	111.82
1	fA	173	ARG	N-CA-CB	7.76	121.65	110.16
1	fA	226	HIS	N-CA-C	7.76	121.66	110.10
1	g3	124	ILE	CB-CA-C	7.76	125.48	111.36
1	h3	107	THR	N-CA-C	7.76	120.42	111.11
1	ii	115	ILE	CA-C-N	7.76	128.76	119.99
1	ii	115	ILE	C-N-CA	7.76	128.76	119.99
1	ja	211	LEU	N-CA-C	7.76	119.74	111.28
1	lE	13	GLN	OE1-CD-NE2	-7.76	114.84	122.60
1	3p	112	GLN	OE1-CD-NE2	-7.76	114.84	122.60
1	3X	36	VAL	CA-C-N	7.76	127.88	120.43
1	3X	36	VAL	C-N-CA	7.76	127.88	120.43
1	4f	201	ILE	O-C-N	-7.76	114.31	121.91
1	66	5	ASN	OD1-CG-ND2	-7.76	114.84	122.60
1	9b	107	THR	N-CA-C	-7.76	103.96	113.50
1	9s	16	SER	CA-C-N	7.76	127.82	119.28
1	9s	16	SER	C-N-CA	7.76	127.82	119.28
1	b6	84	HIS	CB-CG-CD2	-7.76	121.11	131.20
1	bq	206	GLY	CA-C-N	7.76	127.40	119.56
1	bq	206	GLY	C-N-CA	7.76	127.40	119.56
1	bu	153	ILE	CA-CB-CG1	7.76	123.59	110.40
1	bQ	200	THR	N-CA-C	7.76	119.74	111.28
1	cu	18	ARG	CA-C-O	7.76	128.69	120.70
1	dr	26	VAL	N-CA-CB	-7.76	100.64	110.57
1	dr	195	ASN	CA-C-N	7.76	127.31	119.24
1	dr	195	ASN	C-N-CA	7.76	127.31	119.24
1	dC	16	SER	CA-C-N	7.76	128.42	120.04
1	dC	16	SER	C-N-CA	7.76	128.42	120.04
1	dD	110	THR	CA-C-N	7.76	131.01	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dD	110	THR	C-N-CA	7.76	131.01	120.54
1	e6	62	HIS	ND1-CE1-NE2	7.76	116.16	108.40
1	eR	140	LYS	CA-C-O	7.76	128.65	120.42
1	fw	167	ARG	N-CA-C	7.76	119.37	111.07
1	a	16	SER	CA-C-O	7.76	126.71	120.19
1	gK	140	LYS	CA-C-O	7.76	128.87	120.10
1	gY	208	ALA	N-CA-C	7.76	121.84	112.38
1	ha	163	ASP	CA-C-O	7.76	128.64	120.42
1	j7	156	GLY	O-C-N	-7.76	115.44	122.42
1	jP	19	THR	N-CA-C	7.76	119.74	111.28
1	le	115	ILE	CA-C-N	7.76	128.55	119.94
1	le	115	ILE	C-N-CA	7.76	128.55	119.94
1	lg	62	HIS	ND1-CG-CD2	7.76	113.86	106.10
1	5E	216	THR	N-CA-C	7.76	120.82	111.82
1	9a	120	HIS	CE1-NE2-CD2	-7.76	101.24	109.00
1	c9	129	ILE	O-C-N	-7.76	113.84	121.83
1	dy	18	ARG	NE-CZ-NH2	7.76	126.18	119.20
1	dM	100	ARG	CA-C-N	7.76	129.91	120.13
1	dM	100	ARG	C-N-CA	7.76	129.91	120.13
1	dS	122	PRO	CA-C-N	7.76	128.23	119.93
1	dS	122	PRO	C-N-CA	7.76	128.23	119.93
1	f5	132	ARG	CA-C-N	7.76	130.53	120.44
1	f5	132	ARG	C-N-CA	7.76	130.53	120.44
1	o	64	ALA	CA-C-N	7.76	130.68	120.28
1	o	64	ALA	C-N-CA	7.76	130.68	120.28
1	t	84	HIS	ND1-CE1-NE2	7.76	116.16	108.40
1	X	190	LEU	CA-C-N	7.76	131.44	120.42
1	X	190	LEU	C-N-CA	7.76	131.44	120.42
1	g9	78	ALA	N-CA-C	7.76	119.73	111.28
1	h6	128	GLU	O-C-N	-7.76	113.90	122.12
1	hk	137	GLY	CA-C-N	7.76	130.52	120.44
1	hk	137	GLY	C-N-CA	7.76	130.52	120.44
1	io	153	ILE	N-CA-C	7.76	120.80	109.63
1	iz	227	LYS	N-CA-C	7.76	120.90	110.35
1	j1	209	ALA	O-C-N	-7.76	113.96	123.04
1	js	186	THR	N-CA-C	7.76	120.72	111.33
1	1W	165	VAL	CA-C-O	7.76	129.02	120.95
1	lz	154	ARG	NE-CZ-NH1	7.76	129.26	121.50
1	3l	81	ASP	O-C-N	-7.76	114.08	122.07
1	3C	213	GLU	CA-C-N	7.76	131.30	120.29
1	3C	213	GLU	C-N-CA	7.76	131.30	120.29
1	3V	141	ILE	N-CA-C	7.76	117.86	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	49	128	GLU	N-CA-C	7.76	119.37	111.07
1	5s	174	ALA	N-CA-C	7.76	119.73	111.28
1	5x	100	ARG	NE-CZ-NH1	7.76	129.26	121.50
1	60	226	HIS	O-C-N	-7.76	112.28	122.59
1	7I	174	ALA	CA-C-N	7.76	132.46	120.75
1	7I	174	ALA	C-N-CA	7.76	132.46	120.75
1	8d	133	TRP	CA-C-N	7.76	131.09	120.46
1	8d	133	TRP	C-N-CA	7.76	131.09	120.46
1	8L	10	MET	O-C-N	-7.76	113.39	122.93
1	11	126	VAL	O-C-N	7.76	129.51	121.91
1	aA	226	HIS	CA-CB-CG	-7.76	106.04	113.80
1	b9	84	HIS	CE1-NE2-CD2	-7.76	101.24	109.00
1	cY	100	ARG	NE-CZ-NH1	7.76	129.26	121.50
1	e4	50	GLN	OE1-CD-NE2	-7.76	114.84	122.60
1	fC	116	GLY	CA-C-N	7.76	130.67	120.28
1	fC	116	GLY	C-N-CA	7.76	130.67	120.28
1	0	154	ARG	NH1-CZ-NH2	-7.76	109.22	119.30
1	j	187	GLU	N-CA-C	7.76	119.82	111.36
1	A	143	ARG	NE-CZ-NH1	7.76	129.26	121.50
1	gA	23	TRP	CB-CG-CD1	7.75	138.53	126.90
1	kC	89	GLY	CA-C-O	-7.75	114.94	122.46
1	4J	79	GLU	N-CA-C	7.75	120.42	111.11
1	5J	206	GLY	CA-C-O	-7.75	110.43	121.52
1	5Y	79	GLU	O-C-N	-7.75	113.15	122.22
1	8v	127	GLY	CA-C-N	7.75	131.01	120.54
1	8v	127	GLY	C-N-CA	7.75	131.01	120.54
1	92	187	GLU	N-CA-C	7.75	119.73	111.28
1	af	134	ILE	N-CA-C	7.75	117.86	110.42
1	bD	54	THR	CA-C-N	7.75	131.01	120.54
1	bD	54	THR	C-N-CA	7.75	131.01	120.54
1	cs	167	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	eX	173	ARG	NE-CZ-NH2	-7.75	112.22	119.20
1	fl	188	THR	N-CA-CB	7.75	123.59	110.49
1	fC	103	ASP	CA-C-N	7.75	131.08	120.46
1	fC	103	ASP	C-N-CA	7.75	131.08	120.46
1	b	6	LEU	N-CA-C	7.75	119.37	111.07
1	h	63	GLN	N-CA-C	7.75	119.73	111.28
1	2	210	THR	N-CA-CB	7.75	121.34	110.17
1	gB	33	SER	O-C-N	7.75	127.28	121.85
1	1H	173	ARG	NE-CZ-NH2	-7.75	112.22	119.20
1	iD	40	PHE	CA-C-N	7.75	131.00	120.38
1	iD	40	PHE	C-N-CA	7.75	131.00	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j2	37	ILE	O-C-N	-7.75	112.26	121.10
1	jo	133	TRP	N-CA-C	-7.75	102.77	111.07
1	kZ	87	HIS	N-CA-CB	7.75	123.59	110.49
1	2l	163	ASP	N-CA-C	7.75	119.36	111.07
1	2F	116	GLY	O-C-N	7.75	129.81	122.13
1	2W	9	GLN	OE1-CD-NE2	7.75	130.35	122.60
1	46	159	GLU	N-CA-C	7.75	120.90	109.50
1	4w	59	VAL	N-CA-C	7.75	118.99	109.30
1	4A	173	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	4I	87	HIS	N-CA-CB	7.75	125.01	111.13
1	6A	77	ALA	CA-C-N	7.75	130.52	120.44
1	6A	77	ALA	C-N-CA	7.75	130.52	120.44
1	7W	109	SER	O-C-N	-7.75	114.14	123.29
1	7Z	24	VAL	O-C-N	-7.75	114.35	121.87
1	8r	177	ALA	CA-C-O	-7.75	113.20	120.95
1	8z	59	VAL	N-CA-C	7.75	119.40	108.93
1	9d	114	GLN	CA-C-N	7.75	130.60	120.60
1	9d	114	GLN	C-N-CA	7.75	130.60	120.60
1	aB	171	THR	N-CA-C	7.75	119.37	111.07
1	dw	103	ASP	O-C-N	-7.75	113.31	122.15
1	dw	211	LEU	CA-C-N	7.75	130.52	120.44
1	dw	211	LEU	C-N-CA	7.75	130.52	120.44
1	dK	97	ARG	CA-C-N	7.75	131.06	120.67
1	dK	97	ARG	C-N-CA	7.75	131.06	120.67
1	dS	69	LEU	O-C-N	-7.75	113.90	122.12
1	dU	130	TYR	CA-C-O	7.75	128.64	120.42
1	eu	178	SER	CA-C-N	7.75	130.67	120.28
1	eu	178	SER	C-N-CA	7.75	130.67	120.28
1	eH	230	VAL	N-CA-CB	7.75	119.43	110.82
1	fE	100	ARG	CA-C-N	7.75	128.59	119.98
1	fE	100	ARG	C-N-CA	7.75	128.59	119.98
1	fH	16	SER	CA-C-N	7.75	127.81	119.28
1	fH	16	SER	C-N-CA	7.75	127.81	119.28
1	a	87	HIS	CA-CB-CG	7.75	121.55	113.80
1	ga	4	GLN	CA-C-N	7.75	130.52	120.44
1	ga	4	GLN	C-N-CA	7.75	130.52	120.44
1	gt	113	GLU	CA-C-N	7.75	131.56	120.79
1	gt	113	GLU	C-N-CA	7.75	131.56	120.79
1	1L	73	ILE	N-CA-C	7.75	119.46	110.62
1	1L	155	GLN	N-CA-C	7.75	121.47	110.23
1	hK	229	ARG	NE-CZ-NH2	-7.75	112.22	119.20
1	iz	230	VAL	O-C-N	-7.75	114.14	122.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iP	136	LEU	CA-C-N	7.75	128.58	119.98
1	iP	136	LEU	C-N-CA	7.75	128.58	119.98
1	1U	48	THR	N-CA-CB	7.75	118.73	109.74
1	jk	218	CYS	CA-C-N	7.75	132.73	122.42
1	jk	218	CYS	C-N-CA	7.75	132.73	122.42
1	jC	182	LYS	N-CA-C	7.75	122.00	112.54
1	k8	53	ASN	N-CA-C	7.75	119.73	111.28
1	30	40	PHE	CA-CB-CG	-7.75	106.05	113.80
1	3c	184	TRP	CA-C-N	7.75	131.00	120.54
1	3c	184	TRP	C-N-CA	7.75	131.00	120.54
1	3u	111	LEU	CA-C-N	7.75	132.45	120.82
1	3u	111	LEU	C-N-CA	7.75	132.45	120.82
1	46	37	ILE	N-CA-CB	-7.75	105.62	110.50
1	4d	19	THR	N-CA-CB	7.75	121.63	110.16
1	4k	152	ASP	N-CA-CB	-7.75	99.23	110.47
1	5p	120	HIS	CA-CB-CG	7.75	121.55	113.80
1	6q	62	HIS	CB-CG-ND1	-7.75	111.07	122.70
1	6J	20	LEU	N-CA-C	7.75	120.41	111.11
1	7k	195	ASN	O-C-N	-7.75	112.82	121.66
1	7v	79	GLU	CA-C-N	7.75	130.52	120.44
1	7v	79	GLU	C-N-CA	7.75	130.52	120.44
1	83	115	ILE	O-C-N	-7.75	114.31	121.91
1	8M	156	GLY	CA-C-N	7.75	127.30	118.85
1	8M	156	GLY	C-N-CA	7.75	127.30	118.85
1	9x	165	VAL	N-CA-C	7.75	118.50	110.36
1	bB	196	PRO	CA-C-N	7.75	130.52	120.44
1	bB	196	PRO	C-N-CA	7.75	130.52	120.44
1	bQ	210	THR	N-CA-C	7.75	119.94	110.41
1	cl	3	VAL	CA-C-O	7.75	129.29	120.76
1	cA	143	ARG	NE-CZ-NH2	-7.75	112.22	119.20
1	e4	163	ASP	CA-C-O	7.75	128.88	119.97
1	em	115	ILE	O-C-N	-7.75	114.35	121.87
1	y	54	THR	CA-C-O	-7.75	112.72	120.70
1	iS	16	SER	O-C-N	-7.75	114.40	121.30
1	jh	117	TRP	N-CA-C	7.75	119.73	111.28
1	jM	73	ILE	N-CA-CB	7.75	119.62	110.55
1	6o	226	HIS	CA-CB-CG	7.75	121.55	113.80
1	6U	174	ALA	O-C-N	-7.75	113.03	122.25
1	7l	150	ILE	N-CA-C	7.75	118.53	110.62
1	7O	126	VAL	CA-C-N	7.75	128.58	119.98
1	7O	126	VAL	C-N-CA	7.75	128.58	119.98
1	7Z	143	ARG	N-CA-C	7.75	121.22	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	28	GLU	N-CA-C	7.75	120.81	111.82
1	dV	163	ASP	N-CA-C	-7.75	102.91	111.36
1	ft	141	ILE	CA-C-N	7.75	131.46	120.53
1	ft	141	ILE	C-N-CA	7.75	131.46	120.53
1	gf	194	ALA	N-CA-CB	7.75	121.36	109.97
1	hd	161	PHE	CA-C-N	7.75	131.00	120.54
1	hd	161	PHE	C-N-CA	7.75	131.00	120.54
1	hu	143	ARG	CA-C-N	7.75	133.43	120.88
1	hu	143	ARG	C-N-CA	7.75	133.43	120.88
1	1L	124	ILE	N-CA-C	7.75	116.23	109.02
1	1O	178	SER	N-CA-C	7.75	120.31	110.24
1	1P	68	MET	CA-C-N	7.75	130.51	120.44
1	1P	68	MET	C-N-CA	7.75	130.51	120.44
1	ix	218	CYS	N-CA-CB	7.75	123.83	112.13
1	iI	70	LYS	CA-C-N	7.75	130.66	120.28
1	iI	70	LYS	C-N-CA	7.75	130.66	120.28
1	j5	33	SER	N-CA-C	-7.75	95.68	108.23
1	jR	146	SER	CB-CA-C	-7.75	102.50	110.17
1	jW	62	HIS	CA-CB-CG	-7.75	106.05	113.80
1	k3	88	ALA	O-C-N	-7.75	112.28	122.59
1	kk	50	GLN	OE1-CD-NE2	-7.75	114.85	122.60
1	kE	132	ARG	NE-CZ-NH2	-7.75	112.23	119.20
1	lk	39	MET	CA-C-N	7.75	130.51	120.44
1	lk	39	MET	C-N-CA	7.75	130.51	120.44
1	3z	173	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	3I	56	LEU	N-CA-C	7.75	119.51	111.14
1	4r	229	ARG	NE-CZ-NH2	7.75	126.17	119.20
1	4I	91	ILE	N-CA-C	7.75	118.50	110.05
1	6i	160	PRO	CA-C-N	7.75	130.66	120.28
1	6i	160	PRO	C-N-CA	7.75	130.66	120.28
1	6J	97	ARG	NE-CZ-NH2	-7.75	112.23	119.20
1	7C	102	SER	N-CA-C	7.75	120.81	111.82
1	9G	51	ASP	CA-CB-CG	7.75	120.35	112.60
1	9U	68	MET	CG-SD-CE	-7.75	83.85	100.90
1	bj	92	GLU	CA-C-N	7.75	129.53	119.84
1	bj	92	GLU	C-N-CA	7.75	129.53	119.84
1	bW	132	ARG	CD-NE-CZ	-7.75	113.55	124.40
1	cn	107	THR	N-CA-C	-7.75	103.96	113.41
1	cu	126	VAL	CA-C-O	7.75	128.84	120.47
1	cz	58	THR	N-CA-C	7.75	120.62	111.71
1	cN	65	ALA	CA-C-O	7.75	128.76	120.55
1	dN	185	MET	CG-SD-CE	-7.75	83.85	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	190	LEU	N-CA-C	7.75	119.72	111.28
1	ef	150	ILE	N-CA-C	-7.75	105.16	112.83
1	eJ	28	GLU	N-CA-C	7.75	119.81	111.36
1	c	26	VAL	N-CA-C	7.75	117.86	110.42
1	3	69	LEU	CA-C-N	7.75	130.66	120.28
1	3	69	LEU	C-N-CA	7.75	130.66	120.28
1	i1	177	ALA	N-CA-C	7.75	121.58	109.96
1	jT	114	GLN	CA-C-O	7.75	128.76	120.55
1	jV	203	LYS	CA-C-N	7.75	132.09	120.31
1	jV	203	LYS	C-N-CA	7.75	132.09	120.31
1	22	57	ASN	OD1-CG-ND2	7.75	130.35	122.60
1	lC	19	THR	CA-C-N	7.75	130.51	120.44
1	lC	19	THR	C-N-CA	7.75	130.51	120.44
1	lO	163	ASP	N-CA-C	7.75	119.72	111.28
1	2f	159	GLU	CA-C-N	7.75	127.80	119.90
1	2f	159	GLU	C-N-CA	7.75	127.80	119.90
1	30	32	PHE	CA-CB-CG	-7.75	106.05	113.80
1	3w	147	PRO	N-CA-CB	-7.75	95.12	103.25
1	4c	98	GLU	CA-C-N	7.75	127.74	119.76
1	4c	98	GLU	C-N-CA	7.75	127.74	119.76
1	4F	12	HIS	ND1-CE1-NE2	7.75	116.15	108.40
1	4U	58	THR	CA-CB-CG2	7.75	123.67	110.50
1	6g	84	HIS	CA-CB-CG	-7.75	106.05	113.80
1	7g	128	GLU	N-CA-C	7.75	119.72	111.28
1	7K	33	SER	CA-C-O	-7.75	112.25	119.76
1	7Y	173	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	8o	133	TRP	CD2-CE2-CZ2	-7.75	114.65	122.40
1	8q	29	GLU	N-CA-C	7.75	119.51	111.14
1	8U	167	ARG	N-CA-CB	-7.75	98.69	110.16
1	9a	143	ARG	N-CA-C	7.75	119.36	111.07
1	9s	5	ASN	CA-CB-CG	-7.75	104.85	112.60
1	9v	186	THR	O-C-N	-7.75	112.74	122.27
1	9F	192	GLN	N-CA-C	7.75	119.72	111.28
1	ad	7	GLN	OE1-CD-NE2	-7.75	114.85	122.60
1	b8	167	ARG	N-CA-CB	7.75	121.62	110.16
1	dU	226	HIS	CA-CB-CG	-7.75	106.05	113.80
1	e2	203	LYS	O-C-N	-7.75	113.91	122.12
1	es	82	ARG	NE-CZ-NH2	7.75	126.17	119.20
1	fJ	14	ALA	N-CA-CB	-7.75	99.75	110.29
1	fT	129	ILE	CA-C-N	7.75	130.51	120.44
1	fT	129	ILE	C-N-CA	7.75	130.51	120.44
1	d	146	SER	CA-C-O	-7.75	110.37	120.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	15	ILE	O-C-N	-7.75	114.42	122.63
1	hn	153	ILE	CB-CA-C	-7.75	101.41	111.25
1	iL	60	GLY	CA-C-N	7.75	128.42	120.60
1	iL	60	GLY	C-N-CA	7.75	128.42	120.60
1	lR	33	SER	CA-C-N	7.75	127.80	119.28
1	lR	33	SER	C-N-CA	7.75	127.80	119.28
1	2L	100	ARG	NH1-CZ-NH2	-7.75	109.23	119.30
1	57	162	ARG	NE-CZ-NH1	7.75	129.25	121.50
1	6T	126	VAL	O-C-N	-7.75	114.36	121.87
1	7b	223	GLY	CA-C-N	7.75	129.52	119.84
1	7b	223	GLY	C-N-CA	7.75	129.52	119.84
1	85	139	ASN	OD1-CG-ND2	-7.75	114.86	122.60
1	g3	55	MET	O-C-N	-7.75	114.09	122.07
1	y	212	GLU	N-CA-C	7.75	120.62	111.71
1	ii	22	ALA	CA-C-N	7.74	130.99	120.54
1	ii	22	ALA	C-N-CA	7.74	130.99	120.54
1	iX	136	LEU	N-CA-C	7.74	119.72	111.28
1	j4	110	THR	CA-C-N	7.74	130.51	120.44
1	j4	110	THR	C-N-CA	7.74	130.51	120.44
1	jD	6	LEU	N-CA-C	7.74	121.16	110.24
1	jY	162	ARG	NE-CZ-NH1	7.74	129.24	121.50
1	k3	21	ASN	CA-C-N	7.74	130.66	120.28
1	k3	21	ASN	C-N-CA	7.74	130.66	120.28
1	kB	139	ASN	CA-CB-CG	7.74	120.34	112.60
1	ll	62	HIS	N-CA-C	7.74	121.83	111.30
1	2S	27	VAL	CA-C-N	7.74	130.66	120.28
1	2S	27	VAL	C-N-CA	7.74	130.66	120.28
1	4u	30	LYS	CA-C-O	7.74	128.22	120.32
1	55	26	VAL	CA-C-O	7.74	128.83	120.47
1	5x	160	PRO	CA-C-N	7.74	130.66	120.28
1	5x	160	PRO	C-N-CA	7.74	130.66	120.28
1	6i	95	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	7c	40	PHE	CA-C-O	7.74	128.76	120.55
1	7y	97	ARG	NE-CZ-NH2	7.74	126.17	119.20
1	7F	107	THR	N-CA-C	-7.74	104.32	114.31
1	86	19	THR	CA-CB-CG2	7.74	123.66	110.50
1	8i	80	TRP	CA-C-O	7.74	128.76	120.55
1	8q	87	HIS	CE1-NE2-CD2	-7.74	101.26	109.00
1	8Q	225	GLY	CA-C-O	7.74	130.26	121.90
1	9g	171	THR	N-CA-C	7.74	119.72	111.28
1	9Z	131	LYS	N-CA-C	7.74	120.70	111.33
1	12	136	LEU	N-CA-C	7.74	119.36	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aB	179	GLN	CA-C-N	7.74	130.66	120.28
1	aB	179	GLN	C-N-CA	7.74	130.66	120.28
1	aC	19	THR	N-CA-C	7.74	119.72	111.28
1	aZ	120	HIS	O-C-N	-7.74	113.69	122.75
1	cJ	70	LYS	N-CA-C	7.74	119.72	111.28
1	cV	159	GLU	O-C-N	-7.74	114.23	121.35
1	dm	204	ALA	CA-C-N	7.74	131.29	120.29
1	dm	204	ALA	C-N-CA	7.74	131.29	120.29
1	dp	184	TRP	CA-C-N	7.74	130.51	120.44
1	dp	184	TRP	C-N-CA	7.74	130.51	120.44
1	dx	29	GLU	N-CA-C	7.74	119.72	111.28
1	e8	191	VAL	O-C-N	-7.74	113.85	121.83
1	fG	39	MET	CA-C-N	7.74	130.51	120.44
1	fG	39	MET	C-N-CA	7.74	130.51	120.44
1	g2	170	LYS	CA-C-O	7.74	128.68	120.70
1	gg	55	MET	N-CA-C	7.74	120.47	111.02
1	hg	181	VAL	N-CA-C	7.74	118.54	110.72
1	hR	195	ASN	N-CA-C	7.74	118.50	109.60
1	iK	124	ILE	N-CA-C	7.74	114.61	107.56
1	ke	62	HIS	ND1-CG-CD2	7.74	113.84	106.10
1	3r	154	ARG	NE-CZ-NH2	-7.74	112.23	119.20
1	aT	204	ALA	CA-C-N	7.74	130.99	120.38
1	aT	204	ALA	C-N-CA	7.74	130.99	120.38
1	b2	62	HIS	ND1-CG-CD2	7.74	113.84	106.10
1	bK	25	LYS	N-CA-C	7.74	120.80	111.82
1	bR	195	ASN	CA-CB-CG	7.74	120.34	112.60
1	cg	60	GLY	CA-C-N	7.74	130.28	122.30
1	cg	60	GLY	C-N-CA	7.74	130.28	122.30
1	cw	183	ASN	N-CA-C	7.74	119.80	111.36
1	dA	122	PRO	O-C-N	-7.74	112.32	121.46
1	1q	50	GLN	N-CA-C	7.74	119.35	111.07
1	g5	124	ILE	N-CA-C	7.74	114.61	107.56
1	gb	27	VAL	CB-CA-C	7.74	122.59	112.14
1	hj	172	LEU	O-C-N	-7.74	114.10	122.07
1	1K	57	ASN	OD1-CG-ND2	-7.74	114.86	122.60
1	jg	39	MET	CA-C-N	7.74	131.28	120.29
1	jg	39	MET	C-N-CA	7.74	131.28	120.29
1	jy	210	THR	N-CA-CB	7.74	122.22	110.45
1	lm	57	ASN	CA-CB-CG	7.74	120.34	112.60
1	lD	9	GLN	CA-C-O	7.74	129.56	120.58
1	3r	94	GLY	CA-C-O	7.74	126.30	119.56
1	3R	16	SER	CA-C-O	-7.74	113.63	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3W	71	GLU	N-CA-C	7.74	119.72	111.28
1	4J	196	PRO	N-CA-C	7.74	125.28	113.75
1	4R	178	SER	CA-C-N	7.74	130.99	120.54
1	4R	178	SER	C-N-CA	7.74	130.99	120.54
1	8t	184	TRP	CA-C-O	7.74	128.76	120.55
1	9x	163	ASP	O-C-N	-7.74	113.92	122.12
1	9O	55	MET	N-CA-C	7.74	119.72	111.28
1	aD	16	SER	CA-C-N	7.74	127.29	119.24
1	aD	16	SER	C-N-CA	7.74	127.29	119.24
1	bG	184	TRP	N-CA-C	7.74	119.72	111.28
1	cm	29	GLU	N-CA-C	7.74	119.41	110.97
1	e5	127	GLY	O-C-N	-7.74	114.76	122.19
1	f2	82	ARG	CB-CG-CD	7.74	129.10	111.30
1	fP	63	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	X	50	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	gf	42	ALA	CA-C-O	7.74	128.62	120.42
1	gs	100	ARG	NE-CZ-NH2	-7.74	112.24	119.20
1	gC	21	ASN	OD1-CG-ND2	-7.74	114.86	122.60
1	hh	166	ASP	CA-C-O	-7.74	112.69	120.82
1	hR	36	VAL	N-CA-C	7.74	120.72	111.05
1	iB	184	TRP	CA-C-O	7.74	128.84	120.10
1	1S	172	LEU	N-CA-C	7.74	119.35	111.07
1	iS	223	GLY	CA-C-N	7.74	127.45	119.56
1	iS	223	GLY	C-N-CA	7.74	127.45	119.56
1	j9	84	HIS	CE1-NE2-CD2	-7.74	101.26	109.00
1	je	104	ILE	CA-C-O	7.74	129.07	120.64
1	jh	33	SER	CA-C-O	-7.74	113.22	120.34
1	1W	148	THR	N-CA-C	7.74	121.45	110.23
1	jB	197	ASP	CA-CB-CG	-7.74	104.86	112.60
1	jD	212	GLU	CA-C-N	7.74	130.50	120.44
1	jD	212	GLU	C-N-CA	7.74	130.50	120.44
1	k1	41	SER	CA-C-N	7.74	131.28	120.29
1	k1	41	SER	C-N-CA	7.74	131.28	120.29
1	kd	48	THR	N-CA-C	-7.74	100.33	110.39
1	kg	27	VAL	O-C-N	-7.74	113.86	121.83
1	ly	95	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	2K	37	ILE	O-C-N	-7.74	114.58	120.07
1	2O	59	VAL	O-C-N	-7.74	113.60	121.96
1	3Z	122	PRO	CA-C-N	7.74	129.51	119.84
1	3Z	122	PRO	C-N-CA	7.74	129.51	119.84
1	40	226	HIS	ND1-CE1-NE2	7.74	116.14	108.40
1	4a	221	VAL	O-C-N	-7.74	114.72	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5k	25	LYS	N-CA-C	7.74	120.69	111.33
1	5Q	174	ALA	N-CA-CB	-7.74	99.26	110.56
1	6d	182	LYS	O-C-N	-7.74	114.10	122.07
1	6J	37	ILE	O-C-N	-7.74	112.28	121.10
1	76	173	ARG	NE-CZ-NH2	-7.74	112.23	119.20
1	7H	80	TRP	CA-C-N	7.74	130.65	120.28
1	7H	80	TRP	C-N-CA	7.74	130.65	120.28
1	7Z	212	GLU	CA-C-N	7.74	130.65	120.28
1	7Z	212	GLU	C-N-CA	7.74	130.65	120.28
1	87	12	HIS	CA-CB-CG	7.74	121.54	113.80
1	9i	57	ASN	CA-CB-CG	-7.74	104.86	112.60
1	Z	88	ALA	N-CA-C	7.74	120.29	109.15
1	a9	155	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	ax	165	VAL	CB-CA-C	-7.74	101.69	112.14
1	dk	97	ARG	O-C-N	-7.74	113.45	122.89
1	dE	67	GLN	N-CA-C	7.74	120.40	111.11
1	ea	129	ILE	CA-C-O	7.74	129.64	121.05
1	1t	205	LEU	O-C-N	-7.74	114.10	122.07
1	eX	161	PHE	N-CA-C	-7.74	102.79	111.07
1	f8	53	ASN	CA-C-N	7.74	130.65	120.28
1	f8	53	ASN	C-N-CA	7.74	130.65	120.28
1	fw	162	ARG	N-CA-CB	7.74	121.50	110.12
1	1y	50	GLN	OE1-CD-NE2	-7.74	114.86	122.60
1	z	131	LYS	CA-C-N	7.74	130.65	120.28
1	z	131	LYS	C-N-CA	7.74	130.65	120.28
1	gw	171	THR	CA-C-N	7.74	130.65	120.28
1	gw	171	THR	C-N-CA	7.74	130.65	120.28
1	i4	21	ASN	CA-C-O	7.74	128.75	120.55
1	28	219	GLN	O-C-N	-7.74	113.50	123.02
1	2f	13	GLN	CA-C-N	7.74	132.43	120.75
1	2f	13	GLN	C-N-CA	7.74	132.43	120.75
1	6L	92	GLU	CA-C-N	7.74	127.79	119.90
1	6L	92	GLU	C-N-CA	7.74	127.79	119.90
1	6L	230	VAL	N-CA-CB	-7.74	102.23	110.82
1	8g	212	GLU	CA-C-N	7.74	130.65	120.28
1	8g	212	GLU	C-N-CA	7.74	130.65	120.28
1	9Z	125	PRO	N-CA-CB	-7.74	96.83	102.25
1	bl	14	ALA	O-C-N	-7.74	113.45	122.89
1	dX	204	ALA	CA-C-N	7.74	130.99	120.54
1	dX	204	ALA	C-N-CA	7.74	130.99	120.54
1	eu	89	GLY	CA-C-N	7.74	128.19	119.83
1	eu	89	GLY	C-N-CA	7.74	128.19	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eQ	64	ALA	O-C-N	-7.74	114.10	122.07
1	f3	149	SER	O-C-N	-7.74	113.12	123.10
1	fz	186	THR	N-CA-C	-7.74	102.85	111.82
1	h	121	ASN	O-C-N	-7.74	114.50	121.39
1	gW	162	ARG	CA-C-O	7.74	128.62	120.42
1	i8	115	ILE	CA-C-O	7.74	129.31	121.27
1	ik	64	ALA	CA-C-O	7.74	128.94	120.82
1	iI	134	ILE	N-CA-C	7.74	117.85	110.42
1	iR	62	HIS	CA-CB-CG	7.74	121.53	113.80
1	jW	40	PHE	CA-C-N	7.74	130.64	120.28
1	jW	40	PHE	C-N-CA	7.74	130.64	120.28
1	ke	154	ARG	NE-CZ-NH2	-7.74	112.24	119.20
1	lw	100	ARG	NE-CZ-NH2	-7.74	112.24	119.20
1	2i	87	HIS	CA-CB-CG	-7.74	106.06	113.80
1	2T	22	ALA	CA-C-O	7.74	128.94	120.82
1	38	5	ASN	CA-C-N	7.74	132.42	120.82
1	38	5	ASN	C-N-CA	7.74	132.42	120.82
1	6j	198	CYS	N-CA-CB	7.74	121.47	109.94
1	79	8	GLY	N-CA-C	-7.74	104.34	115.64
1	87	82	ARG	N-CA-C	7.74	119.35	111.07
1	8i	87	HIS	O-C-N	-7.74	113.42	122.93
1	8K	185	MET	N-CA-C	7.74	120.79	111.82
1	9v	133	TRP	CD2-CE2-CZ2	-7.74	114.67	122.40
1	b9	87	HIS	CE1-NE2-CD2	-7.74	101.27	109.00
1	bk	115	ILE	O-C-N	-7.74	114.31	121.89
1	cf	68	MET	N-CA-C	7.74	120.39	111.11
1	ci	165	VAL	CA-C-N	7.74	133.49	121.19
1	ci	165	VAL	C-N-CA	7.74	133.49	121.19
1	cl	192	GLN	N-CA-C	7.74	120.79	111.82
1	1j	206	GLY	CA-C-N	7.74	127.37	119.56
1	1j	206	GLY	C-N-CA	7.74	127.37	119.56
1	dZ	21	ASN	N-CA-C	7.74	119.71	111.28
1	eQ	148	THR	CB-CA-C	7.74	122.16	109.70
1	fR	53	ASN	CA-CB-CG	-7.74	104.86	112.60
1	lE	183	ASN	N-CA-C	7.73	120.39	111.11
1	2X	167	ARG	NE-CZ-NH2	-7.73	112.24	119.20
1	3u	100	ARG	NE-CZ-NH2	-7.73	112.24	119.20
1	3S	59	VAL	CA-CB-CG1	7.73	123.55	110.40
1	4n	59	VAL	O-C-N	-7.73	114.24	122.67
1	4Y	229	ARG	N-CA-C	7.73	122.14	112.24
1	5e	57	ASN	CA-C-N	7.73	130.97	120.38
1	5e	57	ASN	C-N-CA	7.73	130.97	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5p	12	HIS	CE1-NE2-CD2	-7.73	101.27	109.00
1	7L	59	VAL	CA-C-N	7.73	130.09	120.34
1	7L	59	VAL	C-N-CA	7.73	130.09	120.34
1	8l	173	ARG	N-CA-C	7.73	120.69	111.33
1	8Y	135	ILE	N-CA-C	7.73	117.84	110.42
1	98	226	HIS	CA-C-N	7.73	131.69	120.71
1	98	226	HIS	C-N-CA	7.73	131.69	120.71
1	bC	25	LYS	N-CA-C	7.73	119.79	111.36
1	cm	124	ILE	O-C-N	-7.73	114.57	121.61
1	dB	87	HIS	CE1-NE2-CD2	-7.73	101.27	109.00
1	eC	32	PHE	N-CA-C	-7.73	102.05	112.26
1	eK	88	ALA	N-CA-C	7.73	120.87	110.35
1	fe	25	LYS	O-C-N	-7.73	113.33	122.15
1	he	100	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	hJ	61	GLY	CA-C-N	7.73	133.09	122.19
1	hJ	61	GLY	C-N-CA	7.73	133.09	122.19
1	hK	168	PHE	O-C-N	7.73	130.03	122.07
1	ip	197	ASP	CA-CB-CG	7.73	120.33	112.60
1	it	164	TYR	N-CA-C	7.73	120.69	111.33
1	ky	12	HIS	ND1-CE1-NE2	7.73	116.13	108.40
1	2g	134	ILE	N-CA-C	7.73	118.48	110.36
1	3j	5	ASN	N-CA-C	7.73	121.48	109.96
1	3w	223	GLY	CA-C-N	7.73	129.51	119.84
1	3w	223	GLY	C-N-CA	7.73	129.51	119.84
1	4i	82	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	5h	2	ILE	O-C-N	-7.73	115.25	123.14
1	5k	200	THR	CA-C-O	7.73	128.75	120.55
1	5M	24	VAL	O-C-N	-7.73	113.87	121.83
1	6k	118	MET	CG-SD-CE	-7.73	83.89	100.90
1	6v	57	ASN	CA-CB-CG	-7.73	104.87	112.60
1	7o	228	ALA	N-CA-C	7.73	119.71	111.28
1	7p	226	HIS	N-CA-C	-7.73	102.90	112.88
1	9y	61	GLY	N-CA-C	-7.73	101.98	112.57
1	9V	191	VAL	N-CA-C	7.73	117.84	110.42
1	aL	60	GLY	CA-C-N	7.73	128.87	120.44
1	aL	60	GLY	C-N-CA	7.73	128.87	120.44
1	cm	103	ASP	CA-C-N	7.73	131.40	120.42
1	cm	103	ASP	C-N-CA	7.73	131.40	120.42
1	cq	199	LYS	N-CA-C	7.73	119.34	111.07
1	cv	97	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	db	105	ALA	N-CA-CB	-7.73	99.26	110.47
1	dN	57	ASN	OD1-CG-ND2	-7.73	114.87	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	26	VAL	CA-C-O	-7.73	112.47	121.05
1	ek	139	ASN	CB-CA-C	-7.73	97.53	110.68
1	es	21	ASN	N-CA-C	-7.73	102.49	112.23
1	ev	188	THR	CA-C-N	7.73	130.64	120.28
1	ev	188	THR	C-N-CA	7.73	130.64	120.28
1	fi	33	SER	CA-C-N	7.73	127.63	119.05
1	fi	33	SER	C-N-CA	7.73	127.63	119.05
1	fl	70	LYS	O-C-N	-7.73	113.92	122.12
1	j	55	MET	CG-SD-CE	-7.73	83.89	100.90
1	3	11	VAL	O-C-N	-7.73	115.25	123.14
1	M	195	ASN	CA-C-O	-7.73	112.13	120.17
1	S	162	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	7	167	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	hF	140	LYS	CA-C-N	7.73	130.36	120.70
1	hF	140	LYS	C-N-CA	7.73	130.36	120.70
1	hI	210	THR	CA-C-N	7.73	130.64	120.28
1	hI	210	THR	C-N-CA	7.73	130.64	120.28
1	ic	100	ARG	NE-CZ-NH2	-7.73	112.24	119.20
1	iC	42	ALA	CA-C-N	7.73	131.41	120.28
1	iC	42	ALA	C-N-CA	7.73	131.41	120.28
1	iF	53	ASN	OD1-CG-ND2	-7.73	114.87	122.60
1	jh	74	ASN	CA-C-N	7.73	132.06	120.31
1	jh	74	ASN	C-N-CA	7.73	132.06	120.31
1	jh	111	LEU	N-CA-C	7.73	121.64	111.75
1	jm	71	GLU	CA-C-O	7.73	128.94	120.82
1	jq	88	ALA	N-CA-CB	-7.73	98.70	110.45
1	lu	113	GLU	O-C-N	-7.73	114.11	122.07
1	2w	156	GLY	O-C-N	-7.73	114.04	121.77
1	2z	42	ALA	CA-C-N	7.73	132.06	120.31
1	2z	42	ALA	C-N-CA	7.73	132.06	120.31
1	2R	212	GLU	N-CA-C	7.73	119.71	111.28
1	4n	120	HIS	O-C-N	-7.73	113.98	122.79
1	4W	214	MET	N-CA-C	7.73	120.60	111.71
1	54	183	ASN	CA-C-N	7.73	130.64	120.28
1	54	183	ASN	C-N-CA	7.73	130.64	120.28
1	5j	206	GLY	O-C-N	-7.73	114.04	121.77
1	5D	229	ARG	N-CA-CB	7.73	121.52	109.69
1	6g	161	PHE	CA-CB-CG	-7.73	106.07	113.80
1	6w	23	TRP	N-CA-C	7.73	119.34	111.07
1	7V	204	ALA	N-CA-C	7.73	119.40	110.97
1	8Q	212	GLU	N-CA-C	7.73	119.70	111.28
1	99	63	GLN	N-CA-C	7.73	119.79	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	97	ARG	NH1-CZ-NH2	-7.73	109.25	119.30
1	bM	223	GLY	CA-C-N	7.73	129.50	119.84
1	bM	223	GLY	C-N-CA	7.73	129.50	119.84
1	cJ	169	TYR	O-C-N	-7.73	113.34	122.15
1	dk	141	ILE	N-CA-CB	7.73	121.05	110.54
1	dO	32	PHE	CA-CB-CG	-7.73	106.07	113.80
1	ei	48	THR	O-C-N	-7.73	111.29	121.34
1	en	209	ALA	N-CA-C	7.73	121.40	110.50
1	fW	195	ASN	O-C-N	-7.73	112.77	121.43
1	j	106	GLY	N-CA-C	-7.73	104.87	114.92
1	7	121	ASN	CA-C-O	-7.73	112.13	119.55
1	1D	5	ASN	CA-CB-CG	7.73	120.33	112.60
1	lt	208	ALA	CA-C-N	7.73	131.69	120.71
1	lt	208	ALA	C-N-CA	7.73	131.69	120.71
1	2x	22	ALA	CB-CA-C	7.73	123.62	110.79
1	3T	72	THR	CA-C-N	7.73	130.57	120.60
1	3T	72	THR	C-N-CA	7.73	130.57	120.60
1	3V	118	MET	N-CA-C	7.73	120.60	111.71
1	49	125	PRO	CA-C-N	7.73	131.05	120.46
1	49	125	PRO	C-N-CA	7.73	131.05	120.46
1	4b	174	ALA	N-CA-CB	-7.73	99.05	110.49
1	4o	54	THR	N-CA-C	7.73	119.70	111.28
1	4C	178	SER	CA-C-O	7.73	129.99	121.56
1	6C	23	TRP	CA-CB-CG	7.73	128.28	113.60
1	9H	138	LEU	CA-C-N	7.73	130.97	120.38
1	9H	138	LEU	C-N-CA	7.73	130.97	120.38
1	cw	201	ILE	CA-C-N	7.73	130.64	120.28
1	cw	201	ILE	C-N-CA	7.73	130.64	120.28
1	cE	192	GLN	O-C-N	7.73	131.26	122.22
1	ei	121	ASN	CA-CB-CG	-7.73	104.87	112.60
1	ej	37	ILE	N-CA-C	7.73	123.82	112.61
1	eH	55	MET	N-CA-C	7.73	120.38	111.11
1	0	215	MET	CG-SD-CE	-7.73	83.90	100.90
1	B	6	LEU	CA-C-O	7.73	130.69	121.65
1	R	39	MET	N-CA-C	7.73	119.70	111.28
1	hF	180	GLU	N-CA-CB	-7.73	98.30	110.28
1	i6	195	ASN	CA-CB-CG	-7.73	104.87	112.60
1	iT	120	HIS	CB-CG-CD2	-7.73	121.16	131.20
1	iU	126	VAL	N-CA-C	7.73	118.50	110.62
1	k6	2	ILE	CB-CA-C	7.73	120.50	110.84
1	kr	167	ARG	N-CA-CB	7.73	121.22	110.01
1	24	175	GLU	N-CA-C	7.73	121.40	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25	198	CYS	CA-C-N	7.73	131.41	120.28
1	25	198	CYS	C-N-CA	7.73	131.41	120.28
1	27	114	GLN	N-CA-C	7.73	119.34	111.07
1	lO	172	LEU	N-CA-C	7.73	119.78	111.36
1	5i	75	GLU	N-CA-C	7.73	119.70	111.28
1	5B	187	GLU	N-CA-C	7.73	120.38	111.11
1	66	92	GLU	N-CA-C	7.73	119.45	109.64
1	74	97	ARG	NH1-CZ-NH2	7.73	129.34	119.30
1	7c	143	ARG	CD-NE-CZ	-7.73	113.58	124.40
1	7m	9	GLN	OE1-CD-NE2	7.73	130.33	122.60
1	7s	82	ARG	N-CA-C	7.73	119.70	111.28
1	8i	24	VAL	CA-C-N	7.73	131.26	120.29
1	8i	24	VAL	C-N-CA	7.73	131.26	120.29
1	8v	69	LEU	O-C-N	-7.73	114.11	122.07
1	8y	41	SER	CA-C-N	7.73	130.64	120.28
1	8y	41	SER	C-N-CA	7.73	130.64	120.28
1	8H	76	GLU	N-CA-C	7.73	119.70	111.28
1	9d	50	GLN	CA-C-N	7.73	130.49	120.44
1	9d	50	GLN	C-N-CA	7.73	130.49	120.44
1	9k	226	HIS	ND1-CE1-NE2	7.73	116.13	108.40
1	9K	202	LEU	N-CA-C	7.73	119.70	111.28
1	ag	148	THR	N-CA-C	7.73	121.44	110.23
1	aj	201	ILE	CA-C-O	-7.73	112.98	121.17
1	b3	112	GLN	N-CA-C	7.73	120.68	111.33
1	bn	21	ASN	CA-C-N	7.73	130.49	120.44
1	bn	21	ASN	C-N-CA	7.73	130.49	120.44
1	bA	138	LEU	CA-C-O	7.73	128.74	120.55
1	bB	66	MET	N-CA-C	7.73	119.70	111.28
1	cy	197	ASP	CA-C-O	7.73	128.63	119.28
1	1o	8	GLY	CA-C-O	-7.73	114.94	121.04
1	e9	90	PRO	O-C-N	-7.73	113.55	123.06
1	eP	207	PRO	N-CA-C	-7.73	103.70	114.98
1	eX	159	GLU	O-C-N	-7.73	114.59	121.31
1	i	159	GLU	CA-C-N	7.73	127.78	119.90
1	i	159	GLU	C-N-CA	7.73	127.78	119.90
1	Q	212	GLU	N-CA-C	7.73	119.34	111.07
1	T	16	SER	CA-C-N	7.73	127.91	119.87
1	T	16	SER	C-N-CA	7.73	127.91	119.87
1	1D	214	MET	CA-C-O	7.73	128.74	120.55
1	1L	100	ARG	NE-CZ-NH1	7.73	129.23	121.50
1	i8	144	MET	O-C-N	7.73	130.31	122.12
1	iA	154	ARG	NH1-CZ-NH2	-7.73	109.26	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jw	11	VAL	N-CA-C	7.73	119.00	107.80
1	jz	176	GLN	CA-C-N	7.73	132.42	120.75
1	jz	176	GLN	C-N-CA	7.73	132.42	120.75
1	kD	209	ALA	N-CA-C	7.73	120.86	110.35
1	kY	183	ASN	CA-C-O	7.73	128.61	120.42
1	4K	200	THR	CA-C-N	7.73	130.29	120.56
1	4K	200	THR	C-N-CA	7.73	130.29	120.56
1	5V	74	ASN	N-CA-C	7.73	119.70	111.28
1	7H	202	LEU	N-CA-C	7.73	119.70	111.28
1	8u	156	GLY	O-C-N	-7.73	114.04	121.77
1	bS	57	ASN	N-CA-C	7.73	120.59	111.71
1	c3	25	LYS	N-CA-C	7.73	119.70	111.28
1	ex	148	THR	CA-CB-OG1	7.73	121.19	109.60
1	fd	16	SER	CA-C-N	7.73	127.63	119.05
1	fd	16	SER	C-N-CA	7.73	127.63	119.05
1	fv	19	THR	N-CA-C	7.73	120.38	111.11
1	fF	226	HIS	CG-CD2-NE2	7.73	114.93	107.20
1	ij	122	PRO	CA-C-N	7.72	127.74	119.78
1	ij	122	PRO	C-N-CA	7.72	127.74	119.78
1	iB	12	HIS	CA-CB-CG	7.72	121.53	113.80
1	j3	19	THR	CB-CA-C	-7.72	98.69	110.90
1	j5	22	ALA	N-CA-C	7.72	119.70	111.28
1	ja	100	ARG	NE-CZ-NH2	-7.72	112.25	119.20
1	jL	161	PHE	N-CA-C	7.72	120.68	111.33
1	jO	167	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	kn	192	GLN	N-CA-C	7.72	119.70	111.28
1	kK	53	ASN	CA-CB-CG	-7.72	104.88	112.60
1	lN	154	ARG	O-C-N	-7.72	114.54	123.27
1	34	195	ASN	OD1-CG-ND2	-7.72	114.88	122.60
1	35	207	PRO	N-CA-C	-7.72	105.73	114.92
1	3q	122	PRO	CA-C-N	7.72	127.78	119.90
1	3q	122	PRO	C-N-CA	7.72	127.78	119.90
1	48	128	GLU	CB-CA-C	-7.72	98.75	110.88
1	50	9	GLN	N-CA-C	7.72	120.38	111.11
1	53	111	LEU	CA-C-N	7.72	130.97	120.54
1	53	111	LEU	C-N-CA	7.72	130.97	120.54
1	5z	164	TYR	O-C-N	-7.72	113.93	122.12
1	7b	140	LYS	N-CA-C	7.72	122.47	112.89
1	7O	84	HIS	CG-CD2-NE2	7.72	114.92	107.20
1	8m	209	ALA	N-CA-C	7.72	121.61	110.10
1	8s	212	GLU	N-CA-C	7.72	119.70	111.28
1	8v	121	ASN	CA-C-O	7.72	125.61	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8M	118	MET	N-CA-C	7.72	120.68	111.33
1	dz	216	THR	CA-CB-OG1	7.72	121.19	109.60
1	dD	93	PRO	CB-CA-C	7.72	121.37	111.64
1	dZ	40	PHE	CA-C-N	7.72	130.63	120.28
1	dZ	40	PHE	C-N-CA	7.72	130.63	120.28
1	e6	136	LEU	CA-C-N	7.72	128.56	119.98
1	e6	136	LEU	C-N-CA	7.72	128.56	119.98
1	e9	31	ALA	N-CA-C	7.72	120.59	111.71
1	eo	178	SER	CA-C-N	7.72	130.63	120.28
1	eo	178	SER	C-N-CA	7.72	130.63	120.28
1	eH	191	VAL	CA-C-N	7.72	130.63	120.28
1	eH	191	VAL	C-N-CA	7.72	130.63	120.28
1	f4	53	ASN	CA-CB-CG	-7.72	104.88	112.60
1	fd	206	GLY	CA-C-N	7.72	127.36	119.56
1	fd	206	GLY	C-N-CA	7.72	127.36	119.56
1	fe	167	ARG	CA-C-O	-7.72	112.29	120.63
1	fB	143	ARG	CA-C-N	7.72	130.63	120.28
1	fB	143	ARG	C-N-CA	7.72	130.63	120.28
1	gc	175	GLU	N-CA-C	7.72	121.39	110.50
1	gr	84	HIS	CA-CB-CG	-7.72	106.08	113.80
1	gX	40	PHE	CA-CB-CG	7.72	121.52	113.80
1	h5	10	MET	N-CA-C	7.72	121.13	110.24
1	hM	23	TRP	CA-C-N	7.72	130.29	120.56
1	hM	23	TRP	C-N-CA	7.72	130.29	120.56
1	hV	85	PRO	N-CA-CB	7.72	110.64	103.46
1	i3	102	SER	N-CA-C	7.72	120.59	111.71
1	is	120	HIS	O-C-N	-7.72	114.29	122.94
1	1V	18	ARG	NE-CZ-NH2	-7.72	112.25	119.20
1	jX	230	VAL	CA-C-O	7.72	125.48	119.46
1	lB	66	MET	O-C-N	-7.72	113.19	122.22
1	2b	209	ALA	N-CA-C	7.72	121.43	110.23
1	3w	176	GLN	CA-C-O	7.72	127.95	119.15
1	4J	224	PRO	CA-C-N	7.72	133.25	121.51
1	4J	224	PRO	C-N-CA	7.72	133.25	121.51
1	4R	87	HIS	CE1-NE2-CD2	-7.72	101.28	109.00
1	4W	192	GLN	N-CA-C	7.72	119.78	111.36
1	51	27	VAL	N-CA-C	7.72	118.52	110.72
1	5y	112	GLN	OE1-CD-NE2	-7.72	114.88	122.60
1	5R	166	ASP	CA-CB-CG	7.72	120.32	112.60
1	6y	7	GLN	OE1-CD-NE2	-7.72	114.88	122.60
1	6Q	18	ARG	NH1-CZ-NH2	-7.72	109.26	119.30
1	8p	131	LYS	N-CA-C	7.72	121.64	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	223	GLY	CA-C-N	7.72	129.49	119.84
1	8H	223	GLY	C-N-CA	7.72	129.49	119.84
1	9h	171	THR	N-CA-C	7.72	119.78	111.36
1	9l	58	THR	CA-CB-OG1	7.72	121.18	109.60
1	al	177	ALA	N-CA-C	7.72	120.28	110.24
1	b3	142	VAL	O-C-N	-7.72	114.38	121.87
1	1b	205	LEU	O-C-N	-7.72	113.81	122.23
1	d2	7	GLN	N-CA-C	7.72	120.85	110.35
1	1v	100	ARG	NE-CZ-NH2	7.72	126.15	119.20
1	g1	193	ASN	OD1-CG-ND2	-7.72	114.88	122.60
1	ij	67	GLN	OE1-CD-NE2	-7.72	114.88	122.60
1	iu	50	GLN	CA-C-N	7.72	130.63	120.28
1	iu	50	GLN	C-N-CA	7.72	130.63	120.28
1	kb	58	THR	CA-CB-OG1	7.72	121.18	109.60
1	kE	102	SER	O-C-N	-7.72	113.35	122.15
1	2f	162	ARG	NE-CZ-NH2	-7.72	112.25	119.20
1	2V	68	MET	O-C-N	7.72	130.12	122.09
1	4k	18	ARG	NE-CZ-NH2	7.72	126.15	119.20
1	4U	51	ASP	CA-C-N	7.72	130.94	120.44
1	4U	51	ASP	C-N-CA	7.72	130.94	120.44
1	5e	37	ILE	O-C-N	-7.72	114.59	120.07
1	6Q	92	GLU	O-C-N	-7.72	114.43	121.30
1	ar	143	ARG	NE-CZ-NH2	-7.72	112.25	119.20
1	c5	36	VAL	CA-C-N	7.72	126.51	120.33
1	c5	36	VAL	C-N-CA	7.72	126.51	120.33
1	cB	144	MET	N-CA-C	7.72	119.78	111.36
1	1g	68	MET	CA-C-O	7.72	128.93	120.82
1	cP	64	ALA	CA-C-N	7.72	130.96	120.38
1	cP	64	ALA	C-N-CA	7.72	130.96	120.38
1	eF	97	ARG	NE-CZ-NH2	-7.72	112.25	119.20
1	eK	181	VAL	N-CA-CB	7.72	119.58	110.55
1	w	217	ALA	N-CA-C	7.72	121.96	112.54
1	hA	59	VAL	CA-C-N	7.72	128.18	120.31
1	hA	59	VAL	C-N-CA	7.72	128.18	120.31
1	hU	71	GLU	O-C-N	-7.72	113.35	122.15
1	i4	25	LYS	N-CA-C	7.72	119.77	111.36
1	is	153	ILE	N-CA-CB	7.72	119.37	110.49
1	iM	166	ASP	CA-CB-CG	7.72	120.32	112.60
1	2D	152	ASP	CA-C-N	7.72	131.38	120.42
1	2D	152	ASP	C-N-CA	7.72	131.38	120.42
1	3L	169	TYR	N-CA-C	7.72	119.48	111.14
1	4f	167	ARG	CA-C-N	7.72	130.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	167	ARG	C-N-CA	7.72	130.47	120.44
1	4r	19	THR	N-CA-C	7.72	120.37	111.11
1	4F	108	THR	CA-C-O	7.72	129.29	119.95
1	5A	37	ILE	N-CA-CB	7.72	116.47	110.45
1	5M	45	GLU	CA-C-N	7.72	134.20	120.77
1	5M	45	GLU	C-N-CA	7.72	134.20	120.77
1	6l	146	SER	CA-C-O	-7.72	113.33	119.66
1	7d	96	MET	CA-C-O	7.72	128.65	120.70
1	7W	126	VAL	O-C-N	-7.72	114.38	121.87
1	84	52	LEU	O-C-N	-7.72	113.35	122.15
1	8y	57	ASN	N-CA-C	7.72	119.69	111.28
1	9r	51	ASP	CA-CB-CG	-7.72	104.88	112.60
1	12	98	GLU	CA-C-N	7.72	127.76	119.89
1	12	98	GLU	C-N-CA	7.72	127.76	119.89
1	aw	22	ALA	N-CA-C	7.72	119.77	111.36
1	b0	77	ALA	O-C-N	-7.72	113.94	122.12
1	bp	161	PHE	CA-CB-CG	-7.72	106.08	113.80
1	cN	4	GLN	N-CA-C	7.72	122.12	112.24
1	dR	203	LYS	CA-C-O	7.72	128.73	120.55
1	f8	167	ARG	NH1-CZ-NH2	-7.72	109.26	119.30
1	1y	226	HIS	CG-CD2-NE2	7.72	114.92	107.20
1	fZ	209	ALA	N-CA-C	7.72	121.42	110.23
1	g7	33	SER	CA-C-N	7.72	128.43	119.47
1	g7	33	SER	C-N-CA	7.72	128.43	119.47
1	i	200	THR	CB-CA-C	-7.72	98.46	110.81
1	p	84	HIS	CB-CA-C	-7.72	102.46	110.33
1	P	23	TRP	N-CA-C	7.72	119.33	111.07
1	gN	21	ASN	CA-CB-CG	7.72	120.32	112.60
1	gO	24	VAL	CA-C-O	-7.72	112.92	120.95
1	1R	179	GLN	OE1-CD-NE2	-7.72	114.88	122.60
1	lm	131	LYS	O-C-N	-7.72	113.94	122.12
1	3b	114	GLN	N-CA-C	7.72	119.69	111.28
1	44	74	ASN	OD1-CG-ND2	-7.72	114.88	122.60
1	5I	110	THR	CA-C-N	7.72	130.47	120.44
1	5I	110	THR	C-N-CA	7.72	130.47	120.44
1	8O	76	GLU	O-C-N	-7.72	113.35	122.15
1	cv	195	ASN	CA-C-O	-7.72	112.53	120.02
1	dK	131	LYS	CA-C-N	7.72	130.62	120.28
1	dK	131	LYS	C-N-CA	7.72	130.62	120.28
1	ez	187	GLU	N-CA-C	-7.72	103.39	114.12
1	eU	114	GLN	O-C-N	-7.72	114.12	122.07
1	f4	25	LYS	CA-C-N	7.72	131.03	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f4	25	LYS	C-N-CA	7.72	131.03	120.46
1	gi	132	ARG	CA-C-N	7.72	130.62	120.28
1	gi	132	ARG	C-N-CA	7.72	130.62	120.28
1	hS	23	TRP	N-CA-C	7.72	119.69	111.28
1	hX	18	ARG	NH1-CZ-NH2	7.72	129.33	119.30
1	i6	143	ARG	NH1-CZ-NH2	-7.72	109.27	119.30
1	iB	21	ASN	CA-CB-CG	-7.72	104.88	112.60
1	iG	159	GLU	CA-C-O	-7.72	113.71	120.19
1	iI	112	GLN	CA-C-N	7.72	130.47	120.44
1	iI	112	GLN	C-N-CA	7.72	130.47	120.44
1	iI	163	ASP	CA-C-N	7.72	131.52	120.79
1	iI	163	ASP	C-N-CA	7.72	131.52	120.79
1	1T	55	MET	CA-C-N	7.72	130.95	120.38
1	1T	55	MET	C-N-CA	7.72	130.95	120.38
1	jg	100	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	jn	187	GLU	CA-C-O	7.72	128.36	119.18
1	1Y	36	VAL	CA-C-N	7.72	125.10	120.24
1	1Y	36	VAL	C-N-CA	7.72	125.10	120.24
1	kr	173	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	kP	195	ASN	CA-CB-CG	7.72	120.32	112.60
1	lM	130	TYR	CA-C-N	7.72	130.95	120.38
1	lM	130	TYR	C-N-CA	7.72	130.95	120.38
1	2X	224	PRO	O-C-N	-7.72	112.22	122.64
1	3o	125	PRO	CA-C-N	7.72	131.03	120.46
1	3o	125	PRO	C-N-CA	7.72	131.03	120.46
1	3O	228	ALA	N-CA-C	7.72	121.15	110.35
1	5i	100	ARG	N-CA-C	7.72	120.48	110.53
1	6a	82	ARG	CA-C-N	7.72	130.93	120.44
1	6a	82	ARG	C-N-CA	7.72	130.93	120.44
1	7O	36	VAL	CA-C-N	7.72	126.50	120.33
1	7O	36	VAL	C-N-CA	7.72	126.50	120.33
1	8e	161	PHE	CA-C-N	7.72	130.94	120.44
1	8e	161	PHE	C-N-CA	7.72	130.94	120.44
1	9a	167	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	9J	173	ARG	NE-CZ-NH1	7.72	129.22	121.50
1	ag	211	LEU	O-C-N	-7.72	113.94	122.12
1	aj	74	ASN	CA-CB-CG	-7.72	104.88	112.60
1	ax	18	ARG	CA-C-N	7.72	130.96	120.54
1	ax	18	ARG	C-N-CA	7.72	130.96	120.54
1	13	68	MET	O-C-N	-7.72	113.40	122.20
1	bp	143	ARG	N-CA-C	7.72	119.69	111.28
1	bL	195	ASN	CA-C-O	-7.72	112.29	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	86	VAL	O-C-N	-7.72	114.15	122.95
1	bY	4	GLN	N-CA-CB	7.72	123.53	110.49
1	cf	70	LYS	CA-C-N	7.72	131.52	120.79
1	cf	70	LYS	C-N-CA	7.72	131.52	120.79
1	cA	193	ASN	N-CA-C	-7.72	103.59	113.16
1	dl	206	GLY	O-C-N	-7.72	114.05	121.77
1	ej	115	ILE	CA-C-N	7.72	128.51	119.94
1	ej	115	ILE	C-N-CA	7.72	128.51	119.94
1	fN	117	TRP	N-CA-C	7.72	119.69	111.28
1	gF	102	SER	CA-C-N	7.71	130.47	120.44
1	gF	102	SER	C-N-CA	7.71	130.47	120.44
1	hZ	222	GLY	O-C-N	-7.71	112.75	122.32
1	jF	53	ASN	CA-CB-CG	-7.71	104.89	112.60
1	lg	219	GLN	OE1-CD-NE2	-7.71	114.89	122.60
1	lv	171	THR	CA-C-O	7.71	128.82	119.49
1	2Y	195	ASN	CA-C-N	7.71	128.11	119.32
1	2Y	195	ASN	C-N-CA	7.71	128.11	119.32
1	3I	48	THR	CA-C-N	7.71	129.48	119.84
1	3I	48	THR	C-N-CA	7.71	129.48	119.84
1	4h	201	ILE	CA-C-N	7.71	130.47	120.44
1	4h	201	ILE	C-N-CA	7.71	130.47	120.44
1	4G	70	LYS	CA-C-O	7.71	128.60	120.42
1	5A	4	GLN	O-C-N	-7.71	113.19	122.22
1	6D	219	GLN	O-C-N	-7.71	113.94	122.12
1	7o	12	HIS	CE1-NE2-CD2	-7.71	101.28	109.00
1	7H	56	LEU	N-CA-C	7.71	119.69	111.28
1	7N	20	LEU	CA-C-N	7.71	130.62	120.28
1	7N	20	LEU	C-N-CA	7.71	130.62	120.28
1	95	187	GLU	O-C-N	-7.71	113.36	122.15
1	a5	118	MET	CA-C-O	7.71	128.88	119.31
1	a7	124	ILE	CA-C-O	-7.71	111.48	119.89
1	13	91	ILE	CB-CA-C	7.71	121.06	112.19
1	bc	50	GLN	N-CA-C	7.71	119.69	111.28
1	1a	112	GLN	OE1-CD-NE2	-7.71	114.89	122.60
1	c1	62	HIS	ND1-CG-CD2	7.71	113.81	106.10
1	dl	55	MET	O-C-N	-7.71	113.94	122.12
1	fl	154	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	g4	59	VAL	N-CA-C	7.71	118.49	110.62
1	K	27	VAL	CA-C-N	7.71	130.62	120.28
1	K	27	VAL	C-N-CA	7.71	130.62	120.28
1	Q	143	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	i8	104	ILE	CA-C-O	-7.71	112.93	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jp	41	SER	CA-C-N	7.71	130.47	120.44
1	jp	41	SER	C-N-CA	7.71	130.47	120.44
1	js	16	SER	CA-C-N	7.71	128.11	119.32
1	js	16	SER	C-N-CA	7.71	128.11	119.32
1	jy	132	ARG	NE-CZ-NH2	-7.71	112.26	119.20
1	k1	216	THR	N-CA-C	-7.71	103.43	112.92
1	kV	12	HIS	ND1-CE1-NE2	7.71	116.11	108.40
1	ll	22	ALA	N-CA-C	7.71	119.69	111.28
1	lu	3	VAL	O-C-N	7.71	131.60	123.04
1	37	213	GLU	N-CA-C	7.71	119.32	111.07
1	3o	154	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	3O	187	GLU	N-CA-C	7.71	119.77	111.36
1	4X	150	ILE	CA-C-O	-7.71	112.93	120.95
1	8z	34	PRO	CA-C-N	7.71	130.62	120.28
1	8z	34	PRO	C-N-CA	7.71	130.62	120.28
1	8K	98	GLU	CA-C-O	-7.71	113.52	119.46
1	9F	167	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	Z	159	GLU	O-C-N	-7.71	116.40	121.88
1	cW	33	SER	O-C-N	-7.71	114.19	122.06
1	eY	39	MET	O-C-N	7.71	130.30	122.12
1	M	163	ASP	CA-CB-CG	7.71	120.31	112.60
1	1D	100	ARG	NH1-CZ-NH2	-7.71	109.28	119.30
1	gL	53	ASN	N-CA-C	7.71	120.66	111.33
1	h2	112	GLN	CA-C-N	7.71	131.38	120.28
1	h2	112	GLN	C-N-CA	7.71	131.38	120.28
1	is	32	PHE	CA-C-O	7.71	131.54	120.51
1	1S	148	THR	N-CA-C	7.71	121.14	110.35
1	jp	21	ASN	O-C-N	-7.71	112.10	122.43
1	2U	214	MET	O-C-N	-7.71	113.94	122.12
1	3k	68	MET	CA-C-N	7.71	130.47	120.44
1	3k	68	MET	C-N-CA	7.71	130.47	120.44
1	4q	69	LEU	CA-C-N	7.71	130.61	120.28
1	4q	69	LEU	C-N-CA	7.71	130.61	120.28
1	4Q	89	GLY	O-C-N	-7.71	114.06	121.77
1	5t	63	GLN	N-CA-C	7.71	119.77	111.36
1	6R	73	ILE	N-CA-C	7.71	117.82	110.42
1	71	130	TYR	CA-C-N	7.71	130.61	120.28
1	71	130	TYR	C-N-CA	7.71	130.61	120.28
1	7J	180	GLU	N-CA-C	7.71	119.32	111.07
1	9y	146	SER	CA-C-N	7.71	127.77	119.90
1	9y	146	SER	C-N-CA	7.71	127.77	119.90
1	a8	129	ILE	CA-C-N	7.71	130.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a8	129	ILE	C-N-CA	7.71	130.47	120.44
1	ap	130	TYR	CB-CG-CD1	7.71	132.37	120.80
1	be	143	ARG	CA-C-N	7.71	130.47	120.44
1	be	143	ARG	C-N-CA	7.71	130.47	120.44
1	19	211	LEU	O-C-N	-7.71	113.94	122.12
1	cx	13	GLN	CA-C-N	7.71	131.69	120.82
1	cx	13	GLN	C-N-CA	7.71	131.69	120.82
1	d4	133	TRP	O-C-N	-7.71	113.36	122.15
1	dx	182	LYS	O-C-N	-7.71	113.95	122.12
1	dF	125	PRO	CA-C-N	7.71	130.28	120.56
1	dF	125	PRO	C-N-CA	7.71	130.28	120.56
1	dV	75	GLU	CA-C-O	7.71	128.92	120.82
1	e6	35	GLU	N-CA-C	7.71	121.79	112.38
1	eg	176	GLN	OE1-CD-NE2	-7.71	114.89	122.60
1	eH	182	LYS	N-CA-C	7.71	119.69	111.28
1	fm	84	HIS	CA-CB-CG	-7.71	106.09	113.80
1	ft	75	GLU	O-C-N	7.71	130.01	122.07
1	h	37	ILE	N-CA-CB	7.71	116.47	110.45
1	2G	196	PRO	CA-C-N	7.71	130.46	120.44
1	2G	196	PRO	C-N-CA	7.71	130.46	120.44
1	4c	50	GLN	N-CA-C	7.71	120.36	111.11
1	6H	160	PRO	N-CA-C	7.71	123.37	111.11
1	cC	36	VAL	CA-C-N	7.71	125.10	120.24
1	cC	36	VAL	C-N-CA	7.71	125.10	120.24
1	dd	161	PHE	N-CA-C	7.71	120.36	111.11
1	1v	136	LEU	CA-C-O	7.71	128.72	120.55
1	l	27	VAL	CA-C-N	7.71	130.94	120.38
1	l	27	VAL	C-N-CA	7.71	130.94	120.38
1	E	131	LYS	CA-C-N	7.71	130.46	120.44
1	E	131	LYS	C-N-CA	7.71	130.46	120.44
1	hk	97	ARG	N-CA-C	7.71	120.53	110.43
1	hE	51	ASP	CA-CB-CG	-7.71	104.89	112.60
1	iF	125	PRO	N-CA-CB	-7.71	95.16	103.25
1	iT	70	LYS	CA-C-O	-7.71	112.31	120.63
1	jl	115	ILE	N-CA-CB	7.71	119.57	110.55
1	jA	117	TRP	N-CA-C	7.71	119.68	111.28
1	jD	205	LEU	N-CA-C	7.71	120.66	111.33
1	le	167	ARG	NE-CZ-NH2	-7.71	112.26	119.20
1	3o	16	SER	CA-C-N	7.71	127.61	119.05
1	3o	16	SER	C-N-CA	7.71	127.61	119.05
1	3B	167	ARG	NE-CZ-NH2	-7.71	112.26	119.20
1	46	29	GLU	O-C-N	-7.71	113.76	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	217	ALA	N-CA-C	7.71	119.32	111.07
1	5h	55	MET	O-C-N	-7.71	113.95	122.12
1	5t	9	GLN	OE1-CD-NE2	-7.71	114.89	122.60
1	6M	120	HIS	CA-CB-CG	7.71	121.51	113.80
1	82	33	SER	CA-C-N	7.71	127.76	119.28
1	82	33	SER	C-N-CA	7.71	127.76	119.28
1	8y	135	ILE	CA-C-N	7.71	131.50	120.79
1	8y	135	ILE	C-N-CA	7.71	131.50	120.79
1	8L	177	ALA	N-CA-C	7.71	120.26	110.24
1	9Y	48	THR	O-C-N	-7.71	111.85	121.64
1	b4	25	LYS	N-CA-CB	7.71	121.45	110.12
1	dE	100	ARG	CA-C-N	7.71	128.48	120.00
1	dE	100	ARG	C-N-CA	7.71	128.48	120.00
1	dP	119	THR	CA-C-N	7.71	132.15	120.82
1	dP	119	THR	C-N-CA	7.71	132.15	120.82
1	dQ	18	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	1n	82	ARG	N-CA-C	7.71	120.58	111.71
1	dY	154	ARG	O-C-N	-7.71	115.17	123.26
1	dZ	20	LEU	N-CA-CB	-7.71	98.79	110.12
1	1s	203	LYS	N-CA-C	-7.71	102.21	111.69
1	eL	180	GLU	CA-C-O	7.71	128.72	120.55
1	ff	222	GLY	N-CA-C	7.71	124.94	112.61
1	7	211	LEU	CA-C-N	7.71	130.61	120.28
1	7	211	LEU	C-N-CA	7.71	130.61	120.28
1	ga	229	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	gb	50	GLN	CA-C-N	7.71	130.46	120.44
1	gb	50	GLN	C-N-CA	7.71	130.46	120.44
1	h7	177	ALA	O-C-N	-7.71	114.62	123.33
1	hx	152	ASP	N-CA-C	7.71	119.76	111.36
1	jk	69	LEU	N-CA-C	7.71	119.68	111.28
1	le	76	GLU	CA-C-N	7.71	130.46	120.44
1	le	76	GLU	C-N-CA	7.71	130.46	120.44
1	2P	134	ILE	CB-CA-C	-7.71	101.59	112.22
1	3e	6	LEU	O-C-N	-7.71	113.36	122.15
1	3z	82	ARG	N-CA-C	7.71	119.32	111.07
1	3E	163	ASP	N-CA-C	7.71	119.76	111.36
1	6B	165	VAL	N-CA-C	7.71	118.48	110.62
1	6K	36	VAL	N-CA-CB	7.71	119.06	110.51
1	6Y	37	ILE	CA-C-O	-7.71	113.53	118.69
1	73	63	GLN	N-CA-C	7.71	119.68	111.28
1	79	100	ARG	O-C-N	-7.71	113.66	122.68
1	7H	86	VAL	O-C-N	-7.71	115.09	123.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7P	218	CYS	O-C-N	-7.71	113.33	122.58
1	80	96	MET	N-CA-C	7.71	120.83	110.35
1	ac	124	ILE	CA-C-O	-7.71	114.73	119.51
1	bh	222	GLY	N-CA-C	7.71	124.91	111.50
1	bk	169	TYR	N-CA-C	7.71	119.68	111.28
1	bx	26	VAL	O-C-N	-7.71	113.89	121.83
1	bH	206	GLY	CA-C-N	7.71	127.25	118.85
1	bH	206	GLY	C-N-CA	7.71	127.25	118.85
1	c0	167	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	c7	200	THR	CA-C-N	7.71	130.27	120.56
1	c7	200	THR	C-N-CA	7.71	130.27	120.56
1	d0	159	GLU	N-CA-C	7.71	119.43	109.64
1	dr	161	PHE	CA-CB-CG	7.71	121.51	113.80
1	fD	19	THR	N-CA-CB	7.71	121.18	110.01
1	g5	195	ASN	CA-C-O	-7.71	111.98	120.69
1	E	39	MET	CA-C-N	7.71	130.61	120.28
1	E	39	MET	C-N-CA	7.71	130.61	120.28
1	4	143	ARG	NE-CZ-NH2	7.71	126.14	119.20
1	kh	124	ILE	CA-C-O	-7.71	114.81	119.12
1	kI	39	MET	CA-C-N	7.71	130.46	120.44
1	kI	39	MET	C-N-CA	7.71	130.46	120.44
1	3k	7	GLN	CB-CG-CD	-7.71	99.50	112.60
1	4E	94	GLY	CA-C-O	7.71	129.47	121.38
1	5T	229	ARG	NE-CZ-NH2	-7.71	112.27	119.20
1	8q	73	ILE	CA-C-O	-7.71	112.94	120.95
1	ao	185	MET	O-C-N	-7.71	113.95	122.12
1	av	134	ILE	N-CA-CB	7.71	119.06	110.51
1	aH	189	LEU	CA-C-N	7.71	130.46	120.44
1	aH	189	LEU	C-N-CA	7.71	130.46	120.44
1	c8	41	SER	N-CA-C	7.71	119.31	111.07
1	ec	110	THR	O-C-N	-7.71	113.16	123.10
1	ee	173	ARG	NE-CZ-NH1	7.71	129.21	121.50
1	e	185	MET	O-C-N	-7.71	113.95	122.12
1	s	117	TRP	CA-C-N	7.71	130.60	120.28
1	s	117	TRP	C-N-CA	7.71	130.60	120.28
1	gW	23	TRP	N-CA-C	7.70	119.31	111.07
1	hq	73	ILE	CA-CB-CG1	7.70	123.50	110.40
1	k1	47	ALA	N-CA-C	7.70	122.25	109.46
1	kD	228	ALA	CA-C-O	7.70	129.43	120.49
1	lJ	18	ARG	NE-CZ-NH1	7.70	129.20	121.50
1	2h	33	SER	O-C-N	-7.70	113.80	121.27
1	2I	135	ILE	CA-C-O	-7.70	112.94	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2M	128	GLU	O-C-N	-7.70	113.37	122.15
1	2Y	37	ILE	CA-C-O	-7.70	113.53	118.69
1	3o	189	LEU	N-CA-C	7.70	119.76	111.36
1	3K	185	MET	O-C-N	-7.70	113.95	122.12
1	3Y	79	GLU	CA-C-N	7.70	130.46	120.44
1	3Y	79	GLU	C-N-CA	7.70	130.46	120.44
1	4u	170	LYS	O-C-N	-7.70	114.14	122.07
1	4A	177	ALA	CA-C-O	7.70	129.67	120.81
1	4I	4	GLN	O-C-N	-7.70	112.92	122.24
1	6k	93	PRO	CA-C-N	7.70	136.51	121.41
1	6k	93	PRO	C-N-CA	7.70	136.51	121.41
1	7H	142	VAL	CA-C-N	7.70	130.92	120.44
1	7H	142	VAL	C-N-CA	7.70	130.92	120.44
1	8C	35	GLU	CA-C-O	7.70	128.81	120.10
1	9v	195	ASN	OD1-CG-ND2	-7.70	114.90	122.60
1	ad	83	LEU	N-CA-CB	-7.70	98.84	110.01
1	b7	121	ASN	OD1-CG-ND2	-7.70	114.90	122.60
1	bc	114	GLN	OE1-CD-NE2	-7.70	114.90	122.60
1	bf	48	THR	CA-C-N	7.70	127.60	119.05
1	bf	48	THR	C-N-CA	7.70	127.60	119.05
1	19	111	LEU	O-C-N	-7.70	114.14	122.07
1	c5	172	LEU	CA-C-N	7.70	130.45	120.44
1	c5	172	LEU	C-N-CA	7.70	130.45	120.44
1	ci	201	ILE	CA-C-N	7.70	130.60	120.28
1	ci	201	ILE	C-N-CA	7.70	130.60	120.28
1	df	48	THR	O-C-N	-7.70	112.88	121.66
1	fJ	215	MET	N-CA-C	7.70	119.68	111.28
1	fT	5	ASN	OD1-CG-ND2	-7.70	114.90	122.60
1	C	9	GLN	CA-C-N	7.70	132.15	120.82
1	C	9	GLN	C-N-CA	7.70	132.15	120.82
1	gA	212	GLU	CA-C-O	-7.70	112.39	120.55
1	jt	220	GLY	N-CA-C	7.70	124.80	111.78
1	l4	84	HIS	CG-CD2-NE2	7.70	114.90	107.20
1	3X	177	ALA	N-CA-C	7.70	121.13	110.35
1	5z	12	HIS	ND1-CE1-NE2	7.70	116.10	108.40
1	7i	74	ASN	CA-C-O	7.70	128.71	120.55
1	8j	21	ASN	CA-CB-CG	-7.70	104.90	112.60
1	10	228	ALA	CA-C-N	7.70	133.03	120.94
1	10	228	ALA	C-N-CA	7.70	133.03	120.94
1	1g	5	ASN	OD1-CG-ND2	-7.70	114.90	122.60
1	cY	84	HIS	ND1-CE1-NE2	7.70	116.10	108.40
1	f1	62	HIS	CA-C-N	7.70	130.94	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f1	62	HIS	C-N-CA	7.70	130.94	120.54
1	fr	51	ASP	CA-C-N	7.70	130.60	120.28
1	fr	51	ASP	C-N-CA	7.70	130.60	120.28
1	fI	209	ALA	N-CA-C	7.70	120.75	111.82
1	L	36	VAL	N-CA-C	7.70	119.40	110.62
1	hr	48	THR	N-CA-CB	7.70	121.66	110.03
1	jL	134	ILE	CA-C-O	7.70	128.96	120.95
1	k9	59	VAL	N-CA-CB	7.70	120.32	111.39
1	kf	87	HIS	N-CA-C	-7.70	102.09	112.26
1	lr	140	LYS	N-CA-C	7.70	119.67	111.28
1	lI	41	SER	CA-C-N	7.70	130.60	120.28
1	lI	41	SER	C-N-CA	7.70	130.60	120.28
1	lK	63	GLN	OE1-CD-NE2	-7.70	114.90	122.60
1	lR	40	PHE	CA-CB-CG	-7.70	106.10	113.80
1	2n	9	GLN	OE1-CD-NE2	-7.70	114.90	122.60
1	2H	215	MET	CA-C-N	7.70	130.60	120.28
1	2H	215	MET	C-N-CA	7.70	130.60	120.28
1	2K	84	HIS	CE1-NE2-CD2	-7.70	101.30	109.00
1	2X	153	ILE	O-C-N	-7.70	114.47	122.63
1	36	143	ARG	NE-CZ-NH2	-7.70	112.27	119.20
1	4g	213	GLU	N-CA-C	7.70	119.67	111.28
1	58	88	ALA	N-CA-C	7.70	121.36	110.50
1	61	94	GLY	O-C-N	-7.70	114.52	122.60
1	6Q	58	THR	CA-C-O	-7.70	112.26	120.42
1	8g	36	VAL	CA-C-N	7.70	125.09	120.24
1	8g	36	VAL	C-N-CA	7.70	125.09	120.24
1	8B	39	MET	CA-C-N	7.70	130.94	120.54
1	8B	39	MET	C-N-CA	7.70	130.94	120.54
1	8F	74	ASN	N-CA-C	7.70	119.67	111.28
1	9o	103	ASP	CA-C-N	7.70	131.01	120.46
1	9o	103	ASP	C-N-CA	7.70	131.01	120.46
1	9v	168	PHE	N-CA-C	7.70	119.67	111.28
1	9W	110	THR	CA-C-N	7.70	130.93	120.38
1	9W	110	THR	C-N-CA	7.70	130.93	120.38
1	a2	167	ARG	N-CA-C	7.70	119.31	111.07
1	cm	118	MET	N-CA-C	7.70	119.67	111.28
1	d8	223	GLY	N-CA-C	7.70	121.24	112.00
1	ef	5	ASN	CA-CB-CG	7.70	120.30	112.60
1	f6	220	GLY	O-C-N	-7.70	112.69	122.70
1	fK	50	GLN	CA-C-N	7.70	130.60	120.28
1	fK	50	GLN	C-N-CA	7.70	130.60	120.28
1	fS	161	PHE	O-C-N	-7.70	113.96	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	97	ARG	NE-CZ-NH1	7.70	129.20	121.50
1	ha	54	THR	O-C-N	-7.70	113.96	122.12
1	hg	162	ARG	NE-CZ-NH2	-7.70	112.27	119.20
1	ia	87	HIS	CB-CG-CD2	-7.70	121.19	131.20
1	iP	197	ASP	CA-CB-CG	-7.70	104.90	112.60
1	jo	62	HIS	CB-CG-CD2	-7.70	121.19	131.20
1	jT	28	GLU	N-CA-C	7.70	119.31	111.07
1	jT	35	GLU	CA-C-O	7.70	128.82	120.20
1	kG	67	GLN	O-C-N	-7.70	113.21	122.22
1	lf	203	LYS	CA-C-O	-7.70	112.26	120.42
1	4Y	31	ALA	CB-CA-C	-7.70	98.01	110.79
1	5C	113	GLU	CA-C-N	7.70	130.91	120.44
1	5C	113	GLU	C-N-CA	7.70	130.91	120.44
1	5S	126	VAL	CA-C-O	7.70	128.81	120.57
1	6U	18	ARG	CA-C-N	7.70	130.59	120.28
1	6U	18	ARG	C-N-CA	7.70	130.59	120.28
1	7b	214	MET	N-CA-C	7.70	119.67	111.28
1	81	223	GLY	CA-C-N	7.70	129.46	119.84
1	81	223	GLY	C-N-CA	7.70	129.46	119.84
1	8W	12	HIS	CG-CD2-NE2	7.70	114.90	107.20
1	9D	65	ALA	N-CA-C	7.70	119.67	111.28
1	a4	154	ARG	NE-CZ-NH2	-7.70	112.27	119.20
1	a9	115	ILE	CA-C-N	7.70	128.65	120.03
1	a9	115	ILE	C-N-CA	7.70	128.65	120.03
1	ad	138	LEU	CA-C-N	7.70	130.60	120.28
1	ad	138	LEU	C-N-CA	7.70	130.60	120.28
1	av	162	ARG	CB-CA-C	-7.70	98.01	110.79
1	aJ	84	HIS	CG-CD2-NE2	7.70	114.90	107.20
1	aP	60	GLY	CA-C-N	7.70	132.68	121.67
1	aP	60	GLY	C-N-CA	7.70	132.68	121.67
1	cV	16	SER	N-CA-C	7.70	120.57	109.48
1	e5	121	ASN	CA-C-O	7.70	125.59	119.59
1	fB	152	ASP	CA-C-N	7.70	131.93	120.69
1	fB	152	ASP	C-N-CA	7.70	131.93	120.69
1	h4	22	ALA	CA-C-O	-7.70	112.39	120.55
1	ls	118	MET	N-CA-CB	7.70	121.17	110.01
1	4k	161	PHE	CA-CB-CG	7.70	121.50	113.80
1	5J	130	TYR	CA-C-O	7.70	128.90	120.82
1	6A	115	ILE	CA-CB-CG1	7.70	123.48	110.40
1	7h	32	PHE	CA-C-N	7.70	131.09	120.39
1	7h	32	PHE	C-N-CA	7.70	131.09	120.39
1	7l	143	ARG	CD-NE-CZ	7.70	135.18	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7M	146	SER	CA-C-O	-7.70	111.94	120.25
1	7Q	81	ASP	N-CA-C	7.70	119.31	111.07
1	al	12	HIS	CE1-NE2-CD2	-7.70	101.30	109.00
1	aO	63	GLN	OE1-CD-NE2	-7.70	114.90	122.60
1	ci	173	ARG	NH1-CZ-NH2	-7.70	109.30	119.30
1	eq	12	HIS	CA-CB-CG	7.70	121.50	113.80
1	k	58	THR	N-CA-C	7.70	119.75	111.36
1	i3	217	ALA	N-CA-C	7.70	120.46	110.53
1	ib	200	THR	CA-C-N	7.70	130.26	120.56
1	ib	200	THR	C-N-CA	7.70	130.26	120.56
1	jL	117	TRP	O-C-N	-7.70	113.96	122.12
1	jT	161	PHE	CA-CB-CG	-7.70	106.10	113.80
1	l0	192	GLN	OE1-CD-NE2	-7.70	114.91	122.60
1	lf	130	TYR	CA-C-N	7.70	130.44	120.44
1	lf	130	TYR	C-N-CA	7.70	130.44	120.44
1	27	95	GLN	OE1-CD-NE2	7.70	130.29	122.60
1	2E	63	GLN	N-CA-C	7.70	119.75	111.36
1	2K	23	TRP	N-CA-C	7.70	119.30	111.07
1	2Z	98	GLU	CA-C-N	7.70	128.16	119.93
1	2Z	98	GLU	C-N-CA	7.70	128.16	119.93
1	3x	137	GLY	O-C-N	-7.70	114.72	122.19
1	3C	67	GLN	O-C-N	-7.70	114.14	122.07
1	3I	215	MET	CA-C-O	7.70	128.82	119.97
1	42	169	TYR	CA-C-N	7.70	130.93	120.54
1	42	169	TYR	C-N-CA	7.70	130.93	120.54
1	51	153	ILE	CA-C-N	7.70	132.78	121.31
1	51	153	ILE	C-N-CA	7.70	132.78	121.31
1	5k	95	GLN	OE1-CD-NE2	-7.70	114.91	122.60
1	6m	52	LEU	N-CA-C	7.70	119.67	111.28
1	7H	171	THR	O-C-N	-7.70	113.96	122.12
1	7Y	89	GLY	O-C-N	-7.70	114.08	121.77
1	8I	48	THR	CA-C-N	7.70	129.46	119.84
1	8I	48	THR	C-N-CA	7.70	129.46	119.84
1	92	18	ARG	N-CA-C	-7.70	102.82	112.90
1	aL	213	GLU	N-CA-C	7.70	119.67	111.28
1	b9	133	TRP	CA-C-N	7.70	130.26	120.56
1	b9	133	TRP	C-N-CA	7.70	130.26	120.56
1	bf	56	LEU	N-CA-C	7.70	119.75	111.36
1	bx	51	ASP	O-C-N	7.70	130.28	122.12
1	bT	55	MET	N-CA-C	7.70	119.67	111.28
1	ck	221	VAL	N-CA-CB	7.70	122.76	111.52
1	cs	155	GLN	CG-CD-NE2	-7.70	104.86	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dM	208	ALA	N-CA-C	-7.70	102.95	112.88
1	dN	87	HIS	CA-CB-CG	7.70	121.50	113.80
1	el	229	ARG	NE-CZ-NH1	7.70	129.20	121.50
1	eq	88	ALA	N-CA-CB	-7.70	98.28	110.98
1	ev	92	GLU	CA-C-N	7.70	129.46	119.84
1	ev	92	GLU	C-N-CA	7.70	129.46	119.84
1	eX	116	GLY	O-C-N	-7.70	114.51	122.13
1	fB	173	ARG	NE-CZ-NH2	-7.70	112.27	119.20
1	fR	128	GLU	N-CA-C	7.70	119.67	111.28
1	fU	69	LEU	CA-C-N	7.70	130.59	120.28
1	fU	69	LEU	C-N-CA	7.70	130.59	120.28
1	ho	196	PRO	O-C-N	7.69	131.46	122.23
1	jb	200	THR	N-CA-C	7.69	119.67	111.28
1	3c	10	MET	CG-SD-CE	-7.69	83.97	100.90
1	3j	230	VAL	N-CA-C	-7.69	105.27	112.96
1	5Z	119	THR	N-CA-C	-7.69	103.46	112.92
1	6A	195	ASN	CB-CA-C	7.69	120.57	109.26
1	7s	210	THR	N-CA-C	7.69	120.69	110.53
1	7C	166	ASP	N-CA-CB	-7.69	98.35	110.28
1	7X	102	SER	CA-C-O	7.69	128.57	120.42
1	7Y	226	HIS	CA-CB-CG	7.69	121.49	113.80
1	bp	217	ALA	N-CA-C	7.69	120.69	110.53
1	bE	58	THR	N-CA-C	7.69	119.45	111.14
1	bP	122	PRO	CA-C-N	7.69	127.75	119.90
1	bP	122	PRO	C-N-CA	7.69	127.75	119.90
1	bV	195	ASN	CA-C-N	7.69	129.46	119.84
1	bV	195	ASN	C-N-CA	7.69	129.46	119.84
1	eL	181	VAL	N-CA-C	7.69	117.81	110.42
1	q	4	GLN	CA-C-O	7.69	129.66	120.81
1	M	55	MET	CA-C-O	7.69	128.71	120.55
1	gF	125	PRO	CA-C-N	7.69	130.52	120.60
1	gF	125	PRO	C-N-CA	7.69	130.52	120.60
1	gI	78	ALA	N-CA-C	7.69	119.67	111.28
1	kB	68	MET	O-C-N	-7.69	112.81	122.27
1	kT	66	MET	N-CA-C	7.69	119.67	111.28
1	lG	92	GLU	CA-C-O	-7.69	112.11	119.80
1	2q	141	ILE	O-C-N	-7.69	114.41	121.87
1	2y	82	ARG	NE-CZ-NH1	7.69	129.19	121.50
1	2G	62	HIS	CA-C-O	7.69	130.43	121.28
1	3h	16	SER	CA-C-N	7.69	127.34	119.19
1	3h	16	SER	C-N-CA	7.69	127.34	119.19
1	3D	25	LYS	CA-C-N	7.69	130.25	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3D	25	LYS	C-N-CA	7.69	130.25	120.56
1	3U	140	LYS	CA-C-O	-7.69	112.67	120.90
1	54	16	SER	O-C-N	-7.69	112.81	121.43
1	6C	25	LYS	O-C-N	-7.69	113.97	122.12
1	6G	39	MET	N-CA-C	7.69	119.30	111.07
1	79	170	LYS	CA-C-O	7.69	128.70	120.55
1	7c	229	ARG	NE-CZ-NH1	7.69	129.19	121.50
1	8t	184	TRP	O-C-N	-7.69	113.97	122.12
1	8C	136	LEU	CA-C-N	7.69	128.68	119.99
1	8C	136	LEU	C-N-CA	7.69	128.68	119.99
1	96	30	LYS	O-C-N	-7.69	114.70	121.85
1	az	73	ILE	CA-C-N	7.69	130.90	120.44
1	az	73	ILE	C-N-CA	7.69	130.90	120.44
1	bD	10	MET	N-CA-C	-7.69	102.99	113.30
1	cV	111	LEU	O-C-N	-7.69	114.15	122.07
1	dq	194	ALA	CA-C-N	7.69	131.11	120.65
1	dq	194	ALA	C-N-CA	7.69	131.11	120.65
1	ds	125	PRO	CA-C-N	7.69	131.00	120.46
1	ds	125	PRO	C-N-CA	7.69	131.00	120.46
1	dW	45	GLU	N-CA-C	7.69	119.67	111.28
1	eR	138	LEU	CA-C-N	7.69	130.59	120.28
1	eR	138	LEU	C-N-CA	7.69	130.59	120.28
1	fR	172	LEU	N-CA-C	7.69	120.64	111.33
1	gB	87	HIS	CE1-NE2-CD2	-7.69	101.31	109.00
1	iX	73	ILE	CA-CB-CG2	-7.69	97.43	110.50
1	je	141	ILE	O-C-N	-7.69	114.41	121.87
1	1W	181	VAL	N-CA-C	7.69	117.80	110.42
1	kz	36	VAL	CA-C-O	7.69	128.44	119.36
1	ll	14	ALA	N-CA-C	7.69	120.81	110.35
1	lq	138	LEU	O-C-N	-7.69	114.15	122.07
1	lI	24	VAL	N-CA-C	7.69	117.76	110.53
1	2i	70	LYS	N-CA-C	7.69	119.30	111.07
1	39	191	VAL	CB-CA-C	-7.69	101.76	112.14
1	3M	178	SER	O-C-N	-7.69	113.59	122.97
1	3Q	92	GLU	CA-C-N	7.69	128.16	119.93
1	3Q	92	GLU	C-N-CA	7.69	128.16	119.93
1	3Q	126	VAL	N-CA-C	7.69	119.39	110.62
1	12	144	MET	O-C-N	-7.69	114.15	122.07
1	bC	23	TRP	N-CA-C	7.69	119.30	111.07
1	bT	112	GLN	CB-CG-CD	7.69	125.67	112.60
1	cv	126	VAL	CA-C-N	7.69	130.03	120.34
1	cv	126	VAL	C-N-CA	7.69	130.03	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	113	GLU	CA-C-N	7.69	130.44	120.44
1	1g	113	GLU	C-N-CA	7.69	130.44	120.44
1	dd	111	LEU	N-CA-C	7.69	120.34	111.11
1	dm	183	ASN	CA-CB-CG	7.69	120.29	112.60
1	dE	183	ASN	O-C-N	-7.69	112.89	122.20
1	dK	143	ARG	CA-C-N	7.69	130.59	120.28
1	dK	143	ARG	C-N-CA	7.69	130.59	120.28
1	fV	206	GLY	O-C-N	7.69	129.46	121.77
1	hP	74	ASN	N-CA-C	7.69	119.66	111.28
1	2U	161	PHE	CA-CB-CG	7.69	121.49	113.80
1	4O	189	LEU	CA-C-O	7.69	128.70	120.55
1	4Y	139	ASN	CA-CB-CG	7.69	120.29	112.60
1	5j	66	MET	N-CA-C	7.69	119.66	111.28
1	5G	80	TRP	CA-C-N	7.69	130.58	120.28
1	5G	80	TRP	C-N-CA	7.69	130.58	120.28
1	5O	19	THR	CA-C-N	7.69	130.58	120.28
1	5O	19	THR	C-N-CA	7.69	130.58	120.28
1	6z	54	THR	N-CA-C	7.69	120.55	111.71
1	7v	109	SER	N-CA-CB	7.69	123.09	110.17
1	88	181	VAL	N-CA-C	7.69	118.49	110.72
1	8z	113	GLU	CA-C-N	7.69	131.21	120.29
1	8z	113	GLU	C-N-CA	7.69	131.21	120.29
1	98	124	ILE	CA-C-O	-7.69	114.81	119.12
1	ac	129	ILE	N-CA-C	-7.69	103.30	110.53
1	bY	200	THR	N-CA-C	7.69	119.66	111.28
1	cr	181	VAL	N-CA-C	7.69	118.46	110.62
1	do	159	GLU	CA-C-O	-7.69	111.94	120.25
1	el	117	TRP	CE2-CD2-CE3	7.69	126.49	118.80
1	p	53	ASN	OD1-CG-ND2	-7.69	114.91	122.60
1	gw	135	ILE	N-CA-C	7.69	118.46	110.62
1	hm	203	LYS	N-CA-C	7.69	119.66	111.28
1	ic	85	PRO	CA-C-N	7.69	131.04	120.35
1	ic	85	PRO	C-N-CA	7.69	131.04	120.35
1	ic	139	ASN	CA-C-O	7.69	128.81	119.97
1	iR	13	GLN	N-CA-C	-7.69	97.39	109.07
1	jZ	73	ILE	CA-C-N	7.69	130.44	120.44
1	jZ	73	ILE	C-N-CA	7.69	130.44	120.44
1	kc	115	ILE	N-CA-CB	7.69	119.04	110.51
1	kq	116	GLY	O-C-N	-7.69	114.80	122.18
1	l7	51	ASP	N-CA-C	7.69	119.66	111.28
1	2E	15	ILE	N-CA-C	7.69	120.70	109.63
1	3b	135	ILE	N-CA-C	7.69	118.48	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3g	84	HIS	ND1-CE1-NE2	7.69	116.09	108.40
1	48	9	GLN	N-CA-C	7.69	127.17	110.80
1	4t	173	ARG	NE-CZ-NH2	7.69	126.12	119.20
1	5T	137	GLY	N-CA-C	7.69	121.94	112.64
1	6t	39	MET	O-C-N	-7.69	113.97	122.12
1	6X	165	VAL	N-CA-C	7.69	118.46	110.62
1	7p	81	ASP	CA-CB-CG	-7.69	104.91	112.60
1	8a	98	GLU	CA-C-O	-7.69	112.11	119.80
1	8c	15	ILE	CA-C-O	-7.69	113.89	121.58
1	8f	56	LEU	CA-C-N	7.69	130.58	120.28
1	8f	56	LEU	C-N-CA	7.69	130.58	120.28
1	8j	213	GLU	N-CA-C	7.69	120.63	111.33
1	8C	219	GLN	CB-CA-C	7.69	122.35	110.67
1	96	100	ARG	NE-CZ-NH1	7.69	129.19	121.50
1	au	23	TRP	CA-CB-CG	7.69	128.21	113.60
1	cb	91	ILE	N-CA-C	-7.69	105.52	112.90
1	cD	12	HIS	ND1-CE1-NE2	7.69	116.09	108.40
1	d9	220	GLY	O-C-N	-7.69	114.88	122.41
1	dq	22	ALA	N-CA-C	7.69	119.74	111.36
1	ef	166	ASP	CA-C-N	7.69	130.58	120.28
1	ef	166	ASP	C-N-CA	7.69	130.58	120.28
1	fN	223	GLY	O-C-N	-7.69	114.08	121.77
1	i	141	ILE	N-CA-C	-7.69	103.30	110.53
1	i0	98	GLU	CA-C-N	7.69	127.68	119.76
1	i0	98	GLU	C-N-CA	7.69	127.68	119.76
1	i4	216	THR	CA-C-N	7.69	132.12	120.82
1	i4	216	THR	C-N-CA	7.69	132.12	120.82
1	j0	214	MET	CA-C-N	7.69	131.35	120.28
1	j0	214	MET	C-N-CA	7.69	131.35	120.28
1	kx	42	ALA	CA-C-N	7.69	131.99	120.31
1	kx	42	ALA	C-N-CA	7.69	131.99	120.31
1	kS	169	TYR	N-CA-C	7.69	121.92	112.54
1	kY	7	GLN	CA-C-O	-7.69	113.40	121.55
1	2M	176	GLN	N-CA-C	-7.69	103.49	113.17
1	33	173	ARG	N-CA-C	7.69	120.73	111.82
1	4V	13	GLN	OE1-CD-NE2	-7.69	114.91	122.60
1	6F	136	LEU	N-CA-C	7.69	119.29	111.07
1	8q	120	HIS	CA-CB-CG	7.69	121.49	113.80
1	b9	87	HIS	CG-CD2-NE2	7.69	114.89	107.20
1	bd	203	LYS	O-C-N	-7.69	113.79	122.09
1	bi	82	ARG	NE-CZ-NH2	-7.69	112.28	119.20
1	bF	226	HIS	CG-CD2-NE2	7.69	114.89	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bG	100	ARG	NE-CZ-NH2	-7.69	112.28	119.20
1	c8	39	MET	CA-C-N	7.69	130.58	120.28
1	c8	39	MET	C-N-CA	7.69	130.58	120.28
1	dj	191	VAL	O-C-N	-7.69	114.41	121.87
1	dK	68	MET	CA-C-O	7.69	128.70	120.55
1	eF	82	ARG	N-CA-C	7.69	119.66	111.28
1	3	210	THR	N-CA-C	7.69	120.44	110.53
1	hr	13	GLN	CA-C-N	7.68	133.48	121.26
1	hr	13	GLN	C-N-CA	7.68	133.48	121.26
1	hN	33	SER	O-C-N	-7.68	112.48	121.32
1	hP	134	ILE	CA-C-N	7.68	130.99	120.46
1	hP	134	ILE	C-N-CA	7.68	130.99	120.46
1	iy	119	THR	CA-CB-OG1	7.68	121.13	109.60
1	1T	52	LEU	N-CA-C	7.68	119.66	111.28
1	jU	74	ASN	N-CA-C	7.68	119.66	111.28
1	la	94	GLY	CA-C-O	7.68	128.50	119.13
1	3C	211	LEU	O-C-N	-7.68	113.97	122.12
1	4P	65	ALA	N-CA-CB	-7.68	98.82	110.12
1	5i	19	THR	CA-C-N	7.68	130.89	120.44
1	5i	19	THR	C-N-CA	7.68	130.89	120.44
1	5r	25	LYS	N-CA-C	7.68	119.66	111.28
1	5N	74	ASN	OD1-CG-ND2	-7.68	114.92	122.60
1	69	165	VAL	N-CA-C	7.68	119.38	110.62
1	7e	15	ILE	N-CA-C	7.68	119.37	109.30
1	7n	194	ALA	CA-C-N	7.68	131.82	120.83
1	7n	194	ALA	C-N-CA	7.68	131.82	120.83
1	7E	189	LEU	O-C-N	-7.68	114.15	122.07
1	7L	12	HIS	CG-CD2-NE2	7.68	114.88	107.20
1	8D	93	PRO	N-CA-C	7.68	123.33	111.11
1	8J	202	LEU	O-C-N	-7.68	113.39	122.15
1	9W	25	LYS	N-CA-C	7.68	120.33	111.11
1	a1	28	GLU	N-CA-C	7.68	120.63	111.33
1	ae	62	HIS	CA-CB-CG	-7.68	106.12	113.80
1	ao	126	VAL	N-CA-C	7.68	117.80	110.42
1	cj	25	LYS	CA-C-N	7.68	130.40	120.56
1	cj	25	LYS	C-N-CA	7.68	130.40	120.56
1	cl	121	ASN	OD1-CG-ND2	-7.68	114.92	122.60
1	cm	52	LEU	N-CA-C	7.68	119.66	111.28
1	d9	12	HIS	CA-CB-CG	-7.68	106.11	113.80
1	dz	91	ILE	CA-C-N	7.68	130.43	120.44
1	dz	91	ILE	C-N-CA	7.68	130.43	120.44
1	dQ	161	PHE	N-CA-C	7.68	119.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	19	THR	N-CA-C	7.68	119.66	111.28
1	eI	221	VAL	CA-C-N	7.68	128.51	119.98
1	eI	221	VAL	C-N-CA	7.68	128.51	119.98
1	eP	62	HIS	CA-C-N	7.68	130.91	120.54
1	eP	62	HIS	C-N-CA	7.68	130.91	120.54
1	f7	158	LYS	CA-C-O	7.68	128.80	119.81
1	z	163	ASP	CA-CB-CG	-7.68	104.92	112.60
1	A	55	MET	N-CA-C	7.68	119.29	111.07
1	K	130	TYR	CA-C-N	7.68	130.58	120.28
1	K	130	TYR	C-N-CA	7.68	130.58	120.28
1	ga	223	GLY	O-C-N	-7.68	114.09	121.77
1	gg	78	ALA	CA-C-O	7.68	128.93	120.63
1	gJ	204	ALA	CA-C-N	7.68	130.43	120.44
1	gJ	204	ALA	C-N-CA	7.68	130.43	120.44
1	gU	164	TYR	O-C-N	-7.68	113.39	122.15
1	hp	66	MET	CA-C-O	7.68	128.56	120.42
1	ht	78	ALA	N-CA-C	7.68	119.29	111.07
1	hX	154	ARG	NE-CZ-NH2	7.68	126.11	119.20
1	jt	103	ASP	CA-CB-CG	-7.68	104.92	112.60
1	jB	65	ALA	CA-C-O	7.68	128.89	120.82
1	jT	27	VAL	N-CA-C	7.68	117.80	110.42
1	km	55	MET	N-CA-C	7.68	120.33	111.11
1	kx	7	GLN	OE1-CD-NE2	-7.68	114.92	122.60
1	kF	204	ALA	N-CA-C	7.68	120.73	111.82
1	25	55	MET	CA-C-O	7.68	128.69	120.55
1	25	195	ASN	CA-CB-CG	7.68	120.28	112.60
1	3h	162	ARG	NE-CZ-NH2	7.68	126.11	119.20
1	3p	193	ASN	CB-CG-ND2	7.68	127.92	116.40
1	3O	195	ASN	CA-CB-CG	7.68	120.28	112.60
1	42	36	VAL	CA-C-O	7.68	128.88	119.58
1	4i	11	VAL	O-C-N	-7.68	114.77	123.07
1	4D	154	ARG	NE-CZ-NH2	-7.68	112.29	119.20
1	5T	195	ASN	CA-C-N	7.68	129.44	119.84
1	5T	195	ASN	C-N-CA	7.68	129.44	119.84
1	73	80	TRP	N-CA-C	7.68	119.65	111.28
1	81	194	ALA	N-CA-C	7.68	120.67	110.53
1	9O	170	LYS	CA-C-N	7.68	130.57	120.28
1	9O	170	LYS	C-N-CA	7.68	130.57	120.28
1	9V	192	GLN	CA-C-O	7.68	128.69	120.55
1	9W	120	HIS	CA-CB-CG	-7.68	106.12	113.80
1	a5	151	LEU	CA-C-O	7.68	128.92	119.78
1	aq	63	GLN	OE1-CD-NE2	-7.68	114.92	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aE	120	HIS	CG-CD2-NE2	7.68	114.88	107.20
1	bi	141	ILE	N-CA-C	-7.68	103.31	110.53
1	19	205	LEU	CA-C-O	7.68	127.91	119.15
1	bE	177	ALA	N-CA-C	7.68	121.64	110.42
1	co	25	LYS	CA-C-N	7.68	130.51	120.60
1	co	25	LYS	C-N-CA	7.68	130.51	120.60
1	cS	201	ILE	N-CA-C	7.68	117.80	110.42
1	cT	203	LYS	O-C-N	-7.68	113.79	122.09
1	di	120	HIS	CE1-NE2-CD2	-7.68	101.32	109.00
1	dk	84	HIS	CA-C-N	7.68	129.44	119.84
1	dk	84	HIS	C-N-CA	7.68	129.44	119.84
1	dZ	76	GLU	N-CA-C	7.68	119.66	111.28
1	3	84	HIS	CE1-NE2-CD2	-7.68	101.32	109.00
1	gq	18	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	ho	185	MET	O-C-N	-7.68	113.98	122.12
1	jq	136	LEU	N-CA-C	7.68	119.65	111.28
1	jM	19	THR	O-C-N	-7.68	113.39	122.15
1	2E	182	LYS	O-C-N	7.68	130.08	122.09
1	2U	83	LEU	N-CA-CB	-7.68	99.99	110.67
1	2Y	57	ASN	CA-CB-CG	-7.68	104.92	112.60
1	3K	48	THR	CA-CB-OG1	7.68	121.12	109.60
1	3X	83	LEU	N-CA-C	7.68	120.73	111.82
1	3Z	19	THR	CA-C-O	7.68	128.69	120.55
1	6K	143	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	aE	28	GLU	N-CA-C	7.68	119.73	111.36
1	bl	123	PRO	O-C-N	-7.68	113.63	123.00
1	ev	183	ASN	OD1-CG-ND2	-7.68	114.92	122.60
1	K	132	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	1F	230	VAL	N-CA-C	7.68	120.01	109.80
1	gV	22	ALA	O-C-N	-7.68	114.16	122.07
1	hb	134	ILE	CA-C-N	7.68	130.98	120.46
1	hb	134	ILE	C-N-CA	7.68	130.98	120.46
1	1J	131	LYS	N-CA-C	7.68	119.65	111.28
1	hq	87	HIS	N-CA-C	7.68	121.88	108.75
1	hr	131	LYS	N-CA-C	7.68	120.62	111.33
1	hM	24	VAL	CA-C-N	7.68	130.57	120.28
1	hM	24	VAL	C-N-CA	7.68	130.57	120.28
1	i7	29	GLU	N-CA-C	7.68	119.34	110.97
1	jx	2	ILE	CB-CA-C	7.68	120.25	110.96
1	jF	165	VAL	CA-C-N	7.68	130.57	120.28
1	jF	165	VAL	C-N-CA	7.68	130.57	120.28
1	k1	126	VAL	N-CA-C	7.68	118.42	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ln	215	MET	CA-C-O	7.68	128.32	119.18
1	lA	123	PRO	N-CA-CB	7.68	110.03	103.35
1	2o	2	ILE	CA-C-N	7.68	133.88	122.98
1	2o	2	ILE	C-N-CA	7.68	133.88	122.98
1	2q	110	THR	O-C-N	-7.68	115.86	123.46
1	2K	80	TRP	O-C-N	-7.68	113.98	122.12
1	3A	31	ALA	N-CA-C	7.68	119.65	111.28
1	3K	154	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	3R	162	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	4h	62	HIS	CB-CG-CD2	-7.68	121.22	131.20
1	4J	63	GLN	N-CA-C	7.68	119.65	111.28
1	55	163	ASP	CA-CB-CG	-7.68	104.92	112.60
1	66	213	GLU	CA-C-N	7.68	130.42	120.44
1	66	213	GLU	C-N-CA	7.68	130.42	120.44
1	7a	142	VAL	N-CA-CB	7.68	119.03	110.51
1	7p	180	GLU	N-CA-C	7.68	120.54	111.71
1	7K	202	LEU	CA-C-N	7.68	130.42	120.44
1	7K	202	LEU	C-N-CA	7.68	130.42	120.44
1	8h	175	GLU	O-C-N	-7.68	114.25	123.16
1	8n	229	ARG	NE-CZ-NH2	7.68	126.11	119.20
1	8K	181	VAL	CA-C-N	7.68	130.57	120.28
1	8K	181	VAL	C-N-CA	7.68	130.57	120.28
1	99	121	ASN	O-C-N	-7.68	115.84	121.83
1	9u	111	LEU	CA-C-N	7.68	130.42	120.44
1	9u	111	LEU	C-N-CA	7.68	130.42	120.44
1	a6	226	HIS	CE1-NE2-CD2	-7.68	101.32	109.00
1	ad	101	GLY	O-C-N	-7.68	114.72	122.17
1	ae	123	PRO	CB-CA-C	7.68	121.06	111.23
1	aC	58	THR	N-CA-CB	7.68	122.19	110.28
1	aH	229	ARG	N-CA-C	7.68	120.79	110.35
1	bn	83	LEU	CA-C-O	7.68	128.61	120.70
1	cj	228	ALA	CA-C-O	7.68	128.88	120.82
1	cG	139	ASN	CA-C-N	7.68	130.42	120.44
1	cG	139	ASN	C-N-CA	7.68	130.42	120.44
1	d3	173	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	e9	146	SER	CA-C-N	7.68	129.44	119.84
1	e9	146	SER	C-N-CA	7.68	129.44	119.84
1	fW	120	HIS	CB-CG-CD2	-7.68	121.22	131.20
1	H	186	THR	O-C-N	-7.68	114.10	122.09
1	il	50	GLN	N-CA-C	7.68	119.65	111.28
1	k0	188	THR	CA-C-O	-7.68	112.28	120.42
1	k8	111	LEU	N-CA-C	7.68	120.62	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	203	LYS	CA-C-N	7.68	130.42	120.44
1	kC	203	LYS	C-N-CA	7.68	130.42	120.44
1	kD	192	GLN	N-CA-C	7.68	119.65	111.28
1	kJ	229	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	5m	61	GLY	N-CA-C	7.68	120.34	111.36
1	5n	53	ASN	OD1-CG-ND2	-7.68	114.92	122.60
1	6W	226	HIS	ND1-CE1-NE2	7.68	116.08	108.40
1	8U	214	MET	N-CA-C	7.68	119.65	111.28
1	aU	25	LYS	O-C-N	-7.68	113.40	122.15
1	bi	162	ARG	CA-C-N	7.68	130.57	120.28
1	bi	162	ARG	C-N-CA	7.68	130.57	120.28
1	eS	128	GLU	CA-C-N	7.68	130.39	120.56
1	eS	128	GLU	C-N-CA	7.68	130.39	120.56
1	I	16	SER	O-C-N	-7.68	114.47	121.30
1	gn	162	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	gO	74	ASN	N-CA-C	7.68	119.65	111.28
1	ht	227	LYS	N-CA-C	-7.68	103.74	113.72
1	i0	75	GLU	N-CA-C	7.68	119.65	111.28
1	jk	84	HIS	CA-C-N	7.68	127.69	119.78
1	jk	84	HIS	C-N-CA	7.68	127.69	119.78
1	1V	146	SER	O-C-N	-7.68	114.47	121.30
1	k2	42	ALA	CA-C-N	7.68	130.90	120.38
1	k2	42	ALA	C-N-CA	7.68	130.90	120.38
1	ks	31	ALA	O-C-N	-7.68	112.38	122.59
1	kD	82	ARG	NH1-CZ-NH2	-7.68	109.32	119.30
1	l6	165	VAL	N-CA-CB	7.68	120.07	110.47
1	3l	36	VAL	CB-CA-C	-7.68	101.78	112.14
1	3q	36	VAL	CA-C-N	7.68	125.08	120.24
1	3q	36	VAL	C-N-CA	7.68	125.08	120.24
1	43	23	TRP	N-CA-C	7.68	119.28	111.07
1	4N	225	GLY	O-C-N	-7.68	115.48	122.77
1	4W	182	LYS	CA-C-N	7.68	130.42	120.44
1	4W	182	LYS	C-N-CA	7.68	130.42	120.44
1	5y	85	PRO	N-CA-CB	-7.68	96.52	102.28
1	6U	225	GLY	CA-C-N	7.68	133.56	122.35
1	6U	225	GLY	C-N-CA	7.68	133.56	122.35
1	7m	203	LYS	N-CA-C	7.68	119.65	111.28
1	7E	167	ARG	CA-C-N	7.68	130.78	120.65
1	7E	167	ARG	C-N-CA	7.68	130.78	120.65
1	82	185	MET	N-CA-C	7.68	119.65	111.28
1	8T	189	LEU	O-C-N	-7.68	112.83	122.27
1	9N	31	ALA	CB-CA-C	-7.68	107.73	116.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a4	184	TRP	CB-CA-C	7.68	123.53	110.79
1	aV	196	PRO	N-CA-C	7.68	125.19	113.75
1	bk	195	ASN	CA-C-N	7.68	129.44	119.84
1	bk	195	ASN	C-N-CA	7.68	129.44	119.84
1	bt	217	ALA	O-C-N	-7.68	114.34	122.94
1	1c	162	ARG	NE-CZ-NH1	7.68	129.18	121.50
1	dt	81	ASP	CA-CB-CG	-7.68	104.92	112.60
1	dA	170	LYS	CA-C-N	7.68	131.46	120.79
1	dA	170	LYS	C-N-CA	7.68	131.46	120.79
1	dS	144	MET	CG-SD-CE	-7.68	84.01	100.90
1	e4	42	ALA	N-CA-C	7.68	119.28	111.07
1	fC	66	MET	N-CA-C	7.68	120.62	111.33
1	V	148	THR	O-C-N	-7.68	114.16	123.30
1	gy	22	ALA	N-CA-C	7.67	119.64	111.28
1	hJ	158	LYS	N-CA-C	7.67	122.64	113.28
1	hY	42	ALA	CA-C-N	7.67	130.90	120.54
1	hY	42	ALA	C-N-CA	7.67	130.90	120.54
1	iV	148	THR	CA-C-N	7.67	133.01	122.19
1	iV	148	THR	C-N-CA	7.67	133.01	122.19
1	jg	56	LEU	O-C-N	-7.67	113.99	122.12
1	jj	212	GLU	O-C-N	-7.67	114.11	122.09
1	jt	153	ILE	CB-CA-C	7.67	122.05	111.31
1	jN	31	ALA	N-CA-C	7.67	119.64	111.28
1	kd	121	ASN	OD1-CG-ND2	-7.67	114.92	122.60
1	kz	115	ILE	CA-C-N	7.67	128.46	119.94
1	kz	115	ILE	C-N-CA	7.67	128.46	119.94
1	kM	83	LEU	N-CA-C	7.67	120.32	111.11
1	l4	175	GLU	N-CA-C	7.67	120.22	110.24
1	ll	134	ILE	O-C-N	-7.67	114.39	121.91
1	lE	19	THR	CA-C-N	7.67	130.78	120.65
1	lE	19	THR	C-N-CA	7.67	130.78	120.65
1	lM	80	TRP	O-C-N	-7.67	113.80	122.09
1	2d	212	GLU	N-CA-C	7.67	120.32	111.11
1	2x	16	SER	CA-C-N	7.67	126.95	118.97
1	2x	16	SER	C-N-CA	7.67	126.95	118.97
1	3o	85	PRO	CA-C-O	-7.67	113.02	121.23
1	3M	135	ILE	CB-CA-C	-7.67	101.78	112.14
1	4k	122	PRO	CA-C-N	7.67	127.72	119.89
1	4k	122	PRO	C-N-CA	7.67	127.72	119.89
1	4k	137	GLY	CA-C-N	7.67	131.19	120.29
1	4k	137	GLY	C-N-CA	7.67	131.19	120.29
1	6I	200	THR	CA-CB-OG1	7.67	121.11	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6N	100	ARG	NE-CZ-NH2	-7.67	112.29	119.20
1	72	18	ARG	CA-C-O	7.67	128.69	120.55
1	7i	74	ASN	N-CA-C	7.67	119.65	111.28
1	7s	192	GLN	N-CA-C	7.67	119.72	111.36
1	7t	127	GLY	CA-C-N	7.67	130.89	120.38
1	7t	127	GLY	C-N-CA	7.67	130.89	120.38
1	8B	53	ASN	CA-C-N	7.67	130.42	120.44
1	8B	53	ASN	C-N-CA	7.67	130.42	120.44
1	92	118	MET	N-CA-C	7.67	122.22	113.01
1	ac	182	LYS	CA-C-N	7.67	130.90	120.54
1	ac	182	LYS	C-N-CA	7.67	130.90	120.54
1	ad	173	ARG	N-CA-C	7.67	119.64	111.28
1	ag	18	ARG	NE-CZ-NH1	7.67	129.17	121.50
1	aD	123	PRO	N-CA-CB	7.67	110.10	103.19
1	14	89	GLY	CA-C-N	7.67	128.14	119.93
1	14	89	GLY	C-N-CA	7.67	128.14	119.93
1	cs	42	ALA	N-CA-C	7.67	119.64	111.28
1	cz	41	SER	O-C-N	-7.67	113.98	122.12
1	d6	195	ASN	CA-C-O	-7.67	112.58	120.02
1	dn	52	LEU	O-C-N	-7.67	113.40	122.15
1	dy	98	GLU	O-C-N	-7.67	114.47	121.30
1	dZ	190	LEU	N-CA-C	7.67	119.28	111.07
1	fl	176	GLN	OE1-CD-NE2	-7.67	114.93	122.60
1	gT	149	SER	O-C-N	-7.67	115.20	123.26
1	gW	27	VAL	O-C-N	-7.67	114.43	121.87
1	is	129	ILE	N-CA-C	7.67	119.37	110.62
1	iN	74	ASN	CA-C-N	7.67	130.41	120.44
1	iN	74	ASN	C-N-CA	7.67	130.41	120.44
1	jI	196	PRO	N-CA-C	7.67	123.68	113.40
1	4x	164	TYR	CA-C-N	7.67	130.82	120.77
1	4x	164	TYR	C-N-CA	7.67	130.82	120.77
1	6A	107	THR	N-CA-C	-7.67	104.15	113.97
1	6B	12	HIS	CA-CB-CG	-7.67	106.13	113.80
1	7C	95	GLN	CA-C-N	7.67	130.56	120.28
1	7C	95	GLN	C-N-CA	7.67	130.56	120.28
1	86	201	ILE	O-C-N	-7.67	114.39	121.91
1	87	108	THR	O-C-N	-7.67	111.95	122.46
1	ac	119	THR	O-C-N	7.67	130.90	122.15
1	bH	111	LEU	N-CA-C	7.67	120.53	111.71
1	bS	136	LEU	CA-C-N	7.67	128.30	119.94
1	bS	136	LEU	C-N-CA	7.67	128.30	119.94
1	di	23	TRP	CA-C-N	7.67	130.38	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	di	23	TRP	C-N-CA	7.67	130.38	120.56
1	dT	57	ASN	OD1-CG-ND2	-7.67	114.93	122.60
1	en	92	GLU	CB-CA-C	7.67	120.35	110.22
1	ff	228	ALA	N-CA-C	7.67	120.78	110.35
1	fF	229	ARG	O-C-N	-7.67	115.20	123.26
1	hx	9	GLN	CB-CA-C	7.67	121.64	111.82
1	1N	73	ILE	N-CA-CB	7.67	118.67	110.62
1	ig	70	LYS	CA-C-N	7.67	130.89	120.38
1	ig	70	LYS	C-N-CA	7.67	130.89	120.38
1	1P	115	ILE	CA-C-O	7.67	128.54	120.25
1	iD	175	GLU	O-C-N	-7.67	113.81	122.86
1	iN	51	ASP	CA-C-N	7.67	130.56	120.28
1	iN	51	ASP	C-N-CA	7.67	130.56	120.28
1	jR	15	ILE	N-CA-C	7.67	118.89	109.30
1	k6	204	ALA	N-CA-C	7.67	119.64	111.28
1	kk	152	ASP	CA-CB-CG	7.67	120.27	112.60
1	kE	136	LEU	CA-C-N	7.67	128.46	119.94
1	kE	136	LEU	C-N-CA	7.67	128.46	119.94
1	kF	35	GLU	CA-C-N	7.67	130.97	120.46
1	kF	35	GLU	C-N-CA	7.67	130.97	120.46
1	kH	161	PHE	CA-C-N	7.67	130.90	120.54
1	kH	161	PHE	C-N-CA	7.67	130.90	120.54
1	kZ	52	LEU	O-C-N	-7.67	113.41	122.15
1	2a	84	HIS	O-C-N	-7.67	114.44	121.42
1	2a	205	LEU	CA-C-N	7.67	133.92	121.87
1	2a	205	LEU	C-N-CA	7.67	133.92	121.87
1	2C	131	LYS	CA-C-O	7.67	128.91	120.63
1	2H	23	TRP	CB-CG-CD2	7.67	137.54	126.80
1	2M	63	GLN	N-CA-C	7.67	120.53	111.71
1	33	27	VAL	N-CA-C	7.67	118.47	110.72
1	37	167	ARG	NE-CZ-NH1	7.67	129.17	121.50
1	4o	2	ILE	O-C-N	-7.67	115.20	123.18
1	4s	87	HIS	CE1-NE2-CD2	-7.67	101.33	109.00
1	5K	104	ILE	N-CA-C	7.67	118.44	110.62
1	81	143	ARG	CA-C-N	7.67	130.56	120.28
1	81	143	ARG	C-N-CA	7.67	130.56	120.28
1	8d	144	MET	N-CA-C	7.67	119.64	111.28
1	8k	146	SER	CA-C-O	7.67	125.37	119.46
1	8u	16	SER	CA-C-O	-7.67	112.93	119.76
1	9A	21	ASN	CA-CB-CG	-7.67	104.93	112.60
1	Y	68	MET	CA-C-N	7.67	130.89	120.38
1	Y	68	MET	C-N-CA	7.67	130.89	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	am	82	ARG	CA-C-N	7.67	130.87	120.44
1	am	82	ARG	C-N-CA	7.67	130.87	120.44
1	aw	124	ILE	N-CA-C	-7.67	100.58	107.56
1	bu	19	THR	CA-C-O	7.67	128.79	119.97
1	bI	110	THR	N-CA-CB	7.67	121.32	110.04
1	d6	53	ASN	O-C-N	-7.67	113.99	122.12
1	dG	96	MET	CA-C-N	7.67	131.60	120.71
1	dG	96	MET	C-N-CA	7.67	131.60	120.71
1	dU	42	ALA	N-CA-C	7.67	119.28	111.07
1	dZ	114	GLN	CA-C-O	-7.67	112.42	120.55
1	e5	203	LYS	N-CA-C	7.67	120.72	111.82
1	ef	122	PRO	CA-C-N	7.67	129.43	119.84
1	ef	122	PRO	C-N-CA	7.67	129.43	119.84
1	eZ	63	GLN	CA-C-O	-7.67	111.72	120.24
1	fr	219	GLN	OE1-CD-NE2	-7.67	114.93	122.60
1	fW	177	ALA	N-CA-C	7.67	121.06	110.24
1	g1	141	ILE	CB-CA-C	7.67	121.79	111.97
1	c	167	ARG	CD-NE-CZ	7.67	135.14	124.40
1	hm	137	GLY	O-C-N	-7.67	114.54	122.13
1	iZ	24	VAL	O-C-N	-7.67	114.43	121.87
1	kr	51	ASP	N-CA-CB	-7.67	98.95	110.07
1	lQ	214	MET	CA-C-N	7.67	130.56	120.28
1	lQ	214	MET	C-N-CA	7.67	130.56	120.28
1	2c	21	ASN	CA-C-N	7.67	130.41	120.44
1	2c	21	ASN	C-N-CA	7.67	130.41	120.44
1	3H	161	PHE	N-CA-C	7.67	119.72	111.36
1	61	87	HIS	O-C-N	-7.67	114.89	123.48
1	7u	132	ARG	CA-C-O	-7.67	112.35	120.63
1	7V	127	GLY	CA-C-O	7.67	128.79	120.66
1	9f	22	ALA	CA-C-O	7.67	128.68	120.55
1	bg	130	TYR	N-CA-C	7.67	119.64	111.28
1	bO	84	HIS	CA-C-O	-7.67	113.05	120.64
1	bT	53	ASN	O-C-N	7.67	129.97	122.07
1	c6	67	GLN	O-C-N	-7.67	113.99	122.12
1	eD	68	MET	CA-C-O	7.67	128.87	120.82
1	fA	122	PRO	CA-C-N	7.67	127.72	119.90
1	fA	122	PRO	C-N-CA	7.67	127.72	119.90
1	1B	126	VAL	N-CA-C	7.67	119.36	110.62
1	gf	7	GLN	OE1-CD-NE2	7.67	130.27	122.60
1	i4	216	THR	N-CA-CB	7.67	122.11	110.30
1	i5	63	GLN	OE1-CD-NE2	-7.67	114.93	122.60
1	ih	1	PRO	CB-CA-C	7.67	124.67	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	126	VAL	CA-C-N	7.67	128.45	119.94
1	it	126	VAL	C-N-CA	7.67	128.45	119.94
1	iw	124	ILE	N-CA-C	7.67	116.47	107.73
1	iw	167	ARG	NH1-CZ-NH2	-7.67	109.33	119.30
1	iE	141	ILE	N-CA-CB	7.67	119.52	110.55
1	1S	211	LEU	CA-C-N	7.67	130.56	120.28
1	1S	211	LEU	C-N-CA	7.67	130.56	120.28
1	iV	182	LYS	N-CA-C	7.67	120.61	111.33
1	j6	78	ALA	CA-C-O	7.67	128.68	120.55
1	ji	92	GLU	CA-C-O	-7.67	114.04	120.71
1	jA	189	LEU	CA-C-N	7.67	132.97	120.63
1	jA	189	LEU	C-N-CA	7.67	132.97	120.63
1	kj	216	THR	N-CA-C	7.67	119.72	111.36
1	21	66	MET	O-C-N	-7.67	113.99	122.12
1	ls	90	PRO	CA-C-N	7.67	131.01	120.35
1	ls	90	PRO	C-N-CA	7.67	131.01	120.35
1	lA	159	GLU	N-CA-C	-7.67	98.50	109.62
1	lL	14	ALA	N-CA-C	7.67	121.35	110.23
1	38	42	ALA	N-CA-C	7.67	119.64	111.28
1	3K	204	ALA	CA-C-N	7.67	130.89	120.54
1	3K	204	ALA	C-N-CA	7.67	130.89	120.54
1	6e	103	ASP	N-CA-C	-7.67	102.04	111.40
1	6y	174	ALA	N-CA-C	7.67	119.64	111.28
1	7K	82	ARG	N-CA-C	-7.67	103.53	113.12
1	7X	22	ALA	N-CA-CB	7.67	121.13	110.01
1	7Y	221	VAL	N-CA-CB	-7.67	103.20	112.33
1	83	120	HIS	CG-CD2-NE2	7.67	114.87	107.20
1	9c	36	VAL	O-C-N	-7.67	114.43	121.87
1	aV	154	ARG	NE-CZ-NH1	7.67	129.17	121.50
1	bn	66	MET	CG-SD-CE	-7.67	84.03	100.90
1	1i	166	ASP	N-CA-C	7.67	120.38	111.02
1	dI	212	GLU	N-CA-C	7.67	119.64	111.28
1	fC	41	SER	CA-C-N	7.67	130.87	120.44
1	fC	41	SER	C-N-CA	7.67	130.87	120.44
1	0	82	ARG	NE-CZ-NH2	-7.67	112.30	119.20
1	gw	180	GLU	N-CA-CB	-7.67	98.41	110.22
1	h7	82	ARG	NE-CZ-NH2	7.67	126.10	119.20
1	hp	175	GLU	N-CA-C	7.67	120.21	110.24
1	jm	14	ALA	CA-C-N	7.67	130.77	120.50
1	jm	14	ALA	C-N-CA	7.67	130.77	120.50
1	js	89	GLY	CA-C-N	7.67	129.42	119.84
1	js	89	GLY	C-N-CA	7.67	129.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k5	128	GLU	CA-C-N	7.67	132.58	120.47
1	k5	128	GLU	C-N-CA	7.67	132.58	120.47
1	kK	71	GLU	CA-C-N	7.67	130.89	120.54
1	kK	71	GLU	C-N-CA	7.67	130.89	120.54
1	kP	144	MET	CA-C-O	7.67	128.55	120.42
1	lf	24	VAL	N-CA-C	7.67	118.46	110.72
1	2d	177	ALA	N-CA-C	7.67	120.20	110.24
1	2t	143	ARG	CD-NE-CZ	7.67	135.13	124.40
1	2S	166	ASP	CA-CB-CG	7.67	120.27	112.60
1	5a	192	GLN	N-CA-C	7.67	119.64	111.28
1	5K	229	ARG	NE-CZ-NH1	7.67	129.17	121.50
1	6M	87	HIS	CE1-NE2-CD2	-7.67	101.33	109.00
1	87	115	ILE	N-CA-C	7.67	118.44	110.62
1	bf	226	HIS	CA-CB-CG	7.67	121.47	113.80
1	bn	100	ARG	NE-CZ-NH1	7.67	129.17	121.50
1	c5	169	TYR	O-C-N	-7.67	113.99	122.12
1	c8	223	GLY	CA-C-N	7.67	128.87	119.98
1	c8	223	GLY	C-N-CA	7.67	128.87	119.98
1	ds	99	PRO	O-C-N	-7.67	117.29	122.73
1	eT	116	GLY	O-C-N	-7.67	114.82	122.18
1	fn	125	PRO	CA-C-N	7.67	131.34	120.53
1	fn	125	PRO	C-N-CA	7.67	131.34	120.53
1	fx	226	HIS	ND1-CE1-NE2	7.67	116.07	108.40
1	fO	143	ARG	NH1-CZ-NH2	-7.67	109.33	119.30
1	g1	124	ILE	O-C-N	7.67	129.84	121.10
1	g	209	ALA	O-C-N	-7.67	113.59	123.02
1	O	62	HIS	CA-C-N	7.67	130.89	120.54
1	O	62	HIS	C-N-CA	7.67	130.89	120.54
1	5	21	ASN	CA-CB-CG	7.67	120.27	112.60
1	gJ	182	LYS	CA-C-N	7.67	130.55	120.28
1	gJ	182	LYS	C-N-CA	7.67	130.55	120.28
1	hG	76	GLU	O-C-N	7.67	129.97	122.07
1	k9	226	HIS	CA-CB-CG	-7.67	106.14	113.80
1	kl	80	TRP	O-C-N	-7.67	114.00	122.12
1	kt	49	PRO	CB-CA-C	7.67	124.21	111.56
1	kC	155	GLN	OE1-CD-NE2	-7.67	114.94	122.60
1	4i	96	MET	CA-C-O	7.67	129.79	121.05
1	51	82	ARG	NE-CZ-NH1	7.67	129.16	121.50
1	5O	66	MET	N-CA-C	7.67	119.64	111.28
1	5Y	97	ARG	NH1-CZ-NH2	-7.67	109.33	119.30
1	71	100	ARG	NE-CZ-NH2	7.67	126.10	119.20
1	8c	185	MET	N-CA-C	7.67	119.64	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8A	226	HIS	N-CA-C	7.67	119.64	111.28
1	9P	117	TRP	CA-C-N	7.67	132.86	120.60
1	9P	117	TRP	C-N-CA	7.67	132.86	120.60
1	am	167	ARG	NH1-CZ-NH2	-7.67	109.33	119.30
1	ap	58	THR	O-C-N	-7.67	113.41	122.15
1	c3	190	LEU	N-CA-C	7.67	119.63	111.28
1	cZ	223	GLY	CA-C-O	-7.67	110.56	121.52
1	dp	8	GLY	O-C-N	7.67	128.97	123.14
1	z	16	SER	CA-C-N	7.67	129.42	119.84
1	z	16	SER	C-N-CA	7.67	129.42	119.84
1	1E	179	GLN	N-CA-C	7.66	120.37	111.02
1	gM	93	PRO	N-CA-C	7.66	123.26	111.15
1	gX	75	GLU	N-CA-C	7.66	119.27	111.07
1	iG	206	GLY	O-C-N	-7.66	114.11	121.77
1	jh	145	TYR	N-CA-CB	7.66	122.12	110.70
1	kk	87	HIS	ND1-CE1-NE2	7.66	116.06	108.40
1	ko	188	THR	O-C-N	-7.66	112.40	122.59
1	kx	84	HIS	CA-C-N	7.66	128.13	119.93
1	kx	84	HIS	C-N-CA	7.66	128.13	119.93
1	2v	22	ALA	N-CA-C	7.66	119.63	111.28
1	33	166	ASP	CA-C-N	7.66	131.17	120.29
1	33	166	ASP	C-N-CA	7.66	131.17	120.29
1	3G	73	ILE	O-C-N	-7.66	114.38	121.89
1	4y	90	PRO	N-CA-C	7.66	123.39	111.21
1	6k	84	HIS	CA-CB-CG	-7.66	106.14	113.80
1	7r	121	ASN	CA-CB-CG	7.66	120.26	112.60
1	7G	88	ALA	N-CA-C	7.66	122.52	111.56
1	89	58	THR	N-CA-C	7.66	120.71	111.82
1	9K	56	LEU	CA-C-N	7.66	132.86	120.60
1	9K	56	LEU	C-N-CA	7.66	132.86	120.60
1	9O	69	LEU	CA-C-N	7.66	130.40	120.44
1	9O	69	LEU	C-N-CA	7.66	130.40	120.44
1	aq	62	HIS	ND1-CE1-NE2	7.66	116.06	108.40
1	bj	87	HIS	CA-CB-CG	7.66	121.46	113.80
1	1b	12	HIS	CB-CG-CD2	-7.66	121.24	131.20
1	cD	63	GLN	N-CA-C	7.66	119.63	111.28
1	e5	41	SER	CA-C-N	7.66	130.55	120.28
1	e5	41	SER	C-N-CA	7.66	130.55	120.28
1	1p	86	VAL	O-C-N	-7.66	113.16	122.59
1	et	223	GLY	CA-C-N	7.66	129.42	119.84
1	et	223	GLY	C-N-CA	7.66	129.42	119.84
1	eS	135	ILE	N-CA-C	7.66	118.44	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	91	ILE	O-C-N	-7.66	114.52	123.03
1	G	84	HIS	CA-CB-CG	7.66	121.46	113.80
1	N	87	HIS	CA-C-O	7.66	129.38	120.49
1	ha	122	PRO	CA-C-N	7.66	129.42	119.84
1	ha	122	PRO	C-N-CA	7.66	129.42	119.84
1	kl	229	ARG	NE-CZ-NH1	7.66	129.16	121.50
1	kQ	89	GLY	CA-C-N	7.66	127.70	119.89
1	kQ	89	GLY	C-N-CA	7.66	127.70	119.89
1	37	92	GLU	O-C-N	-7.66	113.51	120.71
1	3U	11	VAL	CA-C-N	7.66	131.68	120.95
1	3U	11	VAL	C-N-CA	7.66	131.68	120.95
1	6h	219	GLN	O-C-N	-7.66	112.76	122.34
1	6C	74	ASN	CA-CB-CG	-7.66	104.94	112.60
1	6W	183	ASN	CA-CB-CG	-7.66	104.94	112.60
1	7i	128	GLU	CA-C-O	-7.66	112.43	120.55
1	8d	55	MET	N-CA-C	7.66	119.27	111.07
1	95	100	ARG	NH1-CZ-NH2	-7.66	109.34	119.30
1	ac	53	ASN	CA-CB-CG	-7.66	104.94	112.60
1	b7	27	VAL	CA-C-O	7.66	129.29	121.17
1	1b	159	GLU	O-C-N	-7.66	115.57	121.55
1	cN	110	THR	CA-C-N	7.66	130.55	120.28
1	cN	110	THR	C-N-CA	7.66	130.55	120.28
1	dm	213	GLU	N-CA-C	7.66	120.71	111.82
1	dK	14	ALA	O-C-N	-7.66	114.12	122.85
1	ei	76	GLU	CA-C-N	7.66	130.55	120.28
1	ei	76	GLU	C-N-CA	7.66	130.55	120.28
1	eD	28	GLU	CA-C-N	7.66	131.17	120.29
1	eD	28	GLU	C-N-CA	7.66	131.17	120.29
1	eD	148	THR	CA-C-N	7.66	132.27	121.24
1	eD	148	THR	C-N-CA	7.66	132.27	121.24
1	fh	165	VAL	N-CA-C	7.66	118.46	110.72
1	h	131	LYS	O-C-N	-7.66	114.00	122.12
1	gx	152	ASP	N-CA-C	7.66	119.27	111.07
1	hO	183	ASN	N-CA-C	7.66	120.52	111.71
1	hY	161	PHE	CA-CB-CG	7.66	121.46	113.80
1	iS	165	VAL	CA-C-N	7.66	131.17	120.29
1	iS	165	VAL	C-N-CA	7.66	131.17	120.29
1	iU	121	ASN	CA-CB-CG	7.66	120.26	112.60
1	jA	130	TYR	N-CA-C	7.66	119.63	111.28
1	jY	54	THR	O-C-N	-7.66	114.00	122.12
1	lz	57	ASN	OD1-CG-ND2	-7.66	114.94	122.60
1	2f	103	ASP	CA-C-N	7.66	130.96	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2f	103	ASP	C-N-CA	7.66	130.96	120.46
1	2D	26	VAL	N-CA-C	7.66	118.41	110.36
1	32	5	ASN	CA-CB-CG	7.66	120.26	112.60
1	33	229	ARG	NE-CZ-NH2	-7.66	112.31	119.20
1	3o	79	GLU	CA-C-N	7.66	130.54	120.28
1	3o	79	GLU	C-N-CA	7.66	130.54	120.28
1	4x	77	ALA	N-CA-C	7.66	120.71	111.82
1	5d	98	GLU	CA-C-O	-7.66	113.56	119.46
1	5f	64	ALA	CA-C-O	7.66	128.86	120.82
1	5h	75	GLU	CA-C-N	7.66	130.54	120.28
1	5h	75	GLU	C-N-CA	7.66	130.54	120.28
1	5p	91	ILE	CA-C-O	7.66	129.45	120.72
1	5B	74	ASN	N-CA-C	7.66	119.63	111.28
1	5M	45	GLU	N-CA-C	7.66	121.79	110.30
1	9D	51	ASP	N-CA-CB	7.66	121.55	110.06
1	cq	166	ASP	CA-C-N	7.66	130.55	120.28
1	cq	166	ASP	C-N-CA	7.66	130.55	120.28
1	d4	97	ARG	N-CA-CB	7.66	121.87	109.69
1	eb	167	ARG	N-CA-C	7.66	119.63	111.28
1	fc	184	TRP	CA-C-N	7.66	130.88	120.54
1	fc	184	TRP	C-N-CA	7.66	130.88	120.54
1	fO	136	LEU	CA-C-N	7.66	128.43	120.00
1	fO	136	LEU	C-N-CA	7.66	128.43	120.00
1	fV	213	GLU	N-CA-C	7.66	119.27	111.07
1	gc	218	CYS	O-C-N	-7.66	114.02	122.67
1	gT	62	HIS	CA-CB-CG	7.66	121.46	113.80
1	1H	111	LEU	CA-C-N	7.66	130.54	120.28
1	1H	111	LEU	C-N-CA	7.66	130.54	120.28
1	h6	119	THR	N-CA-C	-7.66	103.52	113.17
1	hA	114	GLN	N-CA-C	7.66	119.63	111.28
1	iP	74	ASN	CA-CB-CG	-7.66	104.94	112.60
1	j2	81	ASP	CA-C-O	7.66	128.86	120.82
1	j9	73	ILE	N-CA-C	7.66	118.43	110.62
1	jE	226	HIS	O-C-N	7.66	131.16	122.27
1	ls	37	ILE	CA-C-O	-7.66	112.34	118.85
1	2R	56	LEU	CA-C-O	-7.66	112.43	120.55
1	3e	111	LEU	O-C-N	-7.66	113.47	122.20
1	3e	157	PRO	N-CA-CB	7.66	110.48	103.20
1	4j	78	ALA	N-CA-C	7.66	119.63	111.28
1	81	67	GLN	N-CA-C	7.66	119.63	111.28
1	9G	172	LEU	O-C-N	-7.66	114.00	122.12
1	9R	57	ASN	CA-CB-CG	-7.66	104.94	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	84	HIS	CG-CD2-NE2	7.66	114.86	107.20
1	b7	53	ASN	O-C-N	-7.66	114.00	122.12
1	bi	215	MET	N-CA-C	7.66	120.60	111.33
1	bE	64	ALA	CA-C-O	7.66	128.67	120.55
1	1a	100	ARG	NH1-CZ-NH2	-7.66	109.34	119.30
1	cp	226	HIS	ND1-CE1-NE2	7.66	116.06	108.40
1	cz	196	PRO	N-CA-C	7.66	123.66	113.40
1	1h	125	PRO	N-CA-CB	-7.66	97.68	102.81
1	dE	14	ALA	O-C-N	-7.66	114.31	122.96
1	dZ	74	ASN	OD1-CG-ND2	-7.66	114.94	122.60
1	es	32	PHE	CA-CB-CG	-7.66	106.14	113.80
1	g5	4	GLN	OE1-CD-NE2	-7.66	114.94	122.60
1	z	138	LEU	CA-C-N	7.66	130.54	120.28
1	z	138	LEU	C-N-CA	7.66	130.54	120.28
1	H	101	GLY	CA-C-N	7.66	130.54	120.28
1	H	101	GLY	C-N-CA	7.66	130.54	120.28
1	5	228	ALA	N-CA-C	7.66	119.69	110.19
1	2M	16	SER	O-C-N	-7.66	112.86	121.43
1	3V	105	ALA	N-CA-C	-7.66	103.99	112.72
1	5l	56	LEU	N-CA-C	7.66	119.63	111.28
1	5p	72	THR	CA-C-N	7.66	130.48	120.60
1	5p	72	THR	C-N-CA	7.66	130.48	120.60
1	63	91	ILE	N-CA-C	7.66	118.43	110.62
1	6j	104	ILE	N-CA-C	7.66	118.43	110.62
1	6w	104	ILE	CA-C-N	7.66	130.54	120.28
1	6w	104	ILE	C-N-CA	7.66	130.54	120.28
1	7l	162	ARG	NE-CZ-NH2	-7.66	112.31	119.20
1	bB	50	GLN	CA-C-O	7.66	128.86	120.82
1	ck	186	THR	N-CA-C	7.66	119.41	111.14
1	cZ	91	ILE	O-C-N	-7.66	113.00	122.57
1	dg	104	ILE	O-C-N	-7.66	114.44	121.87
1	gd	116	GLY	O-C-N	-7.66	114.84	122.19
1	iY	99	PRO	N-CA-CB	-7.66	97.01	103.36
1	jk	192	GLN	OE1-CD-NE2	-7.66	114.94	122.60
1	kN	82	ARG	N-CA-CB	7.66	123.10	110.39
1	27	3	VAL	O-C-N	-7.66	115.14	123.18
1	2L	165	VAL	N-CA-C	7.66	119.35	110.62
1	2N	203	LYS	CA-C-N	7.66	131.16	120.29
1	2N	203	LYS	C-N-CA	7.66	131.16	120.29
1	3s	20	LEU	CA-C-N	7.66	130.87	120.54
1	3s	20	LEU	C-N-CA	7.66	130.87	120.54
1	3C	216	THR	N-CA-C	7.66	119.62	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4v	1	PRO	N-CD-CG	7.66	114.68	103.20
1	74	202	LEU	O-C-N	-7.66	114.00	122.12
1	7g	191	VAL	N-CA-C	7.66	118.43	110.62
1	82	189	LEU	O-C-N	-7.66	114.00	122.12
1	8w	203	LYS	CA-C-O	7.66	128.80	119.38
1	9z	139	ASN	O-C-N	7.66	130.05	122.09
1	13	179	GLN	N-CA-C	7.66	120.30	111.11
1	bm	195	ASN	N-CA-C	7.66	121.22	110.20
1	bw	185	MET	O-C-N	-7.66	114.19	122.07
1	bH	74	ASN	CA-C-N	7.66	130.54	120.28
1	bH	74	ASN	C-N-CA	7.66	130.54	120.28
1	cx	195	ASN	CB-CA-C	7.66	119.88	108.86
1	dF	75	GLU	N-CA-C	7.66	119.26	111.07
1	dX	192	GLN	OE1-CD-NE2	-7.66	114.94	122.60
1	1p	229	ARG	NE-CZ-NH1	7.66	129.16	121.50
1	eN	208	ALA	N-CA-C	7.66	122.44	113.18
1	fM	40	PHE	N-CA-C	7.66	119.26	111.07
1	fZ	101	GLY	N-CA-C	7.66	121.92	112.73
1	0	53	ASN	OD1-CG-ND2	-7.66	114.94	122.60
1	2	166	ASP	CA-CB-CG	7.66	120.26	112.60
1	i2	226	HIS	CE1-NE2-CD2	-7.65	101.35	109.00
1	3a	84	HIS	O-C-N	-7.65	114.48	121.37
1	3R	218	CYS	CA-C-N	7.65	131.16	120.29
1	3R	218	CYS	C-N-CA	7.65	131.16	120.29
1	4j	209	ALA	N-CA-C	7.65	120.46	110.43
1	6d	121	ASN	CA-CB-CG	7.65	120.25	112.60
1	79	195	ASN	O-C-N	-7.65	112.52	121.32
1	85	199	LYS	CA-C-N	7.65	130.87	120.54
1	85	199	LYS	C-N-CA	7.65	130.87	120.54
1	8D	138	LEU	N-CA-C	7.65	119.62	111.28
1	8N	133	TRP	CE2-CD2-CE3	-7.65	111.15	118.80
1	9k	99	PRO	N-CA-C	7.65	124.41	111.32
1	aQ	77	ALA	CA-C-N	7.65	130.54	120.28
1	aQ	77	ALA	C-N-CA	7.65	130.54	120.28
1	c9	183	ASN	CA-CB-CG	7.65	120.25	112.60
1	cw	104	ILE	CA-C-N	7.65	132.85	120.60
1	cw	104	ILE	C-N-CA	7.65	132.85	120.60
1	ej	20	LEU	CA-C-N	7.65	130.54	120.28
1	ej	20	LEU	C-N-CA	7.65	130.54	120.28
1	fe	41	SER	CA-C-N	7.65	131.94	120.31
1	fe	41	SER	C-N-CA	7.65	131.94	120.31
1	gy	29	GLU	N-CA-C	7.65	121.88	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hi	5	ASN	CA-CB-CG	-7.65	104.95	112.60
1	jl	81	ASP	CA-CB-CG	7.65	120.25	112.60
1	jn	36	VAL	CA-C-N	7.65	127.78	120.43
1	jn	36	VAL	C-N-CA	7.65	127.78	120.43
1	js	74	ASN	N-CA-C	7.65	120.29	111.11
1	kI	10	MET	CA-C-N	7.65	130.75	120.50
1	kI	10	MET	C-N-CA	7.65	130.75	120.50
1	2a	59	VAL	N-CA-CB	7.65	118.87	110.53
1	34	79	GLU	CA-C-N	7.65	130.39	120.44
1	34	79	GLU	C-N-CA	7.65	130.39	120.44
1	3W	185	MET	CA-C-O	-7.65	112.78	120.82
1	4y	146	SER	O-C-N	-7.65	114.31	121.35
1	5h	92	GLU	O-C-N	-7.65	115.03	121.54
1	64	100	ARG	NE-CZ-NH1	7.65	129.15	121.50
1	6n	172	LEU	N-CA-CB	-7.65	98.91	110.01
1	6r	195	ASN	CA-C-N	7.65	127.19	118.85
1	6r	195	ASN	C-N-CA	7.65	127.19	118.85
1	7d	25	LYS	CA-C-N	7.65	130.20	120.56
1	7d	25	LYS	C-N-CA	7.65	130.20	120.56
1	8d	103	ASP	CA-C-N	7.65	130.94	120.46
1	8d	103	ASP	C-N-CA	7.65	130.94	120.46
1	90	142	VAL	N-CA-C	7.65	118.42	110.62
1	9d	128	GLU	N-CA-C	7.65	119.26	111.07
1	9y	143	ARG	NE-CZ-NH2	7.65	126.09	119.20
1	19	42	ALA	N-CA-C	7.65	120.29	111.11
1	bD	92	GLU	O-C-N	-7.65	112.52	121.32
1	bX	171	THR	CA-C-O	7.65	128.53	120.42
1	cb	13	GLN	CB-CG-CD	-7.65	99.59	112.60
1	cc	200	THR	CA-C-N	7.65	130.26	120.70
1	cc	200	THR	C-N-CA	7.65	130.26	120.70
1	1k	120	HIS	CE1-NE2-CD2	-7.65	101.35	109.00
1	dN	40	PHE	CA-C-N	7.65	130.86	120.38
1	dN	40	PHE	C-N-CA	7.65	130.86	120.38
1	eK	12	HIS	CG-CD2-NE2	7.65	114.85	107.20
1	fd	154	ARG	NE-CZ-NH2	-7.65	112.31	119.20
1	fl	146	SER	CA-C-O	-7.65	113.57	119.46
1	fx	143	ARG	CA-C-N	7.65	130.53	120.28
1	fx	143	ARG	C-N-CA	7.65	130.53	120.28
1	gk	168	PHE	N-CA-C	7.65	119.26	111.07
1	h0	24	VAL	O-C-N	-7.65	112.03	122.05
1	h9	28	GLU	CA-C-N	7.65	131.15	120.29
1	h9	28	GLU	C-N-CA	7.65	131.15	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	5	ASN	CA-CB-CG	-7.65	104.95	112.60
1	kg	72	THR	N-CA-C	7.65	119.62	111.28
1	2n	121	ASN	CA-CB-CG	-7.65	104.95	112.60
1	3P	50	GLN	OE1-CD-NE2	7.65	130.25	122.60
1	5v	140	LYS	CA-C-N	7.65	130.20	120.56
1	5v	140	LYS	C-N-CA	7.65	130.20	120.56
1	6P	187	GLU	O-C-N	-7.65	114.19	122.07
1	79	62	HIS	N-CA-C	7.65	121.70	111.30
1	7f	129	ILE	O-C-N	7.65	129.59	121.94
1	86	47	ALA	N-CA-C	7.65	121.49	110.24
1	9a	65	ALA	CA-C-O	7.65	128.66	120.55
1	9t	201	ILE	CA-C-N	7.65	130.53	120.28
1	9t	201	ILE	C-N-CA	7.65	130.53	120.28
1	9W	84	HIS	CA-C-N	7.65	129.40	119.84
1	9W	84	HIS	C-N-CA	7.65	129.40	119.84
1	10	133	TRP	CB-CG-CD2	-7.65	116.09	126.80
1	as	174	ALA	O-C-N	-7.65	114.01	122.12
1	aR	48	THR	O-C-N	-7.65	112.96	121.53
1	b8	152	ASP	CA-CB-CG	-7.65	104.95	112.60
1	bA	217	ALA	N-CA-C	7.65	120.20	110.33
1	d3	178	SER	O-C-N	-7.65	114.49	123.06
1	dH	20	LEU	O-C-N	7.65	130.23	122.12
1	ey	91	ILE	CA-C-N	7.65	131.02	120.39
1	ey	91	ILE	C-N-CA	7.65	131.02	120.39
1	fN	188	THR	CA-C-N	7.65	130.86	120.38
1	fN	188	THR	C-N-CA	7.65	130.86	120.38
1	q	62	HIS	ND1-CE1-NE2	7.65	116.05	108.40
1	gl	134	ILE	CA-C-N	7.65	130.94	120.46
1	gl	134	ILE	C-N-CA	7.65	130.94	120.46
1	hn	13	GLN	CA-C-N	7.65	131.66	120.95
1	hn	13	GLN	C-N-CA	7.65	131.66	120.95
1	ho	68	MET	CA-C-N	7.65	130.38	120.44
1	ho	68	MET	C-N-CA	7.65	130.38	120.44
1	hZ	100	ARG	NE-CZ-NH2	7.65	126.08	119.20
1	iq	27	VAL	CA-C-O	7.65	129.28	121.17
1	iY	131	LYS	N-CA-C	7.65	119.62	111.28
1	3F	87	HIS	CE1-NE2-CD2	-7.65	101.35	109.00
1	4Z	82	ARG	CA-C-N	7.65	130.38	120.44
1	4Z	82	ARG	C-N-CA	7.65	130.38	120.44
1	5x	168	PHE	CA-C-O	-7.65	112.82	120.70
1	5Z	226	HIS	CA-CB-CG	-7.65	106.15	113.80
1	6t	31	ALA	N-CA-C	7.65	119.62	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9o	110	THR	O-C-N	-7.65	113.80	122.75
1	fN	210	THR	CA-C-N	7.65	130.53	120.28
1	fN	210	THR	C-N-CA	7.65	130.53	120.28
1	gq	100	ARG	CA-C-N	7.65	128.60	120.03
1	gq	100	ARG	C-N-CA	7.65	128.60	120.03
1	in	87	HIS	CA-CB-CG	7.65	121.45	113.80
1	jY	12	HIS	ND1-CE1-NE2	7.65	116.05	108.40
1	k5	86	VAL	N-CA-C	7.65	119.69	109.37
1	lw	135	ILE	CA-CB-CG1	7.65	123.40	110.40
1	2A	186	THR	N-CA-C	7.65	119.25	111.07
1	3O	20	LEU	CA-C-N	7.65	130.38	120.44
1	3O	20	LEU	C-N-CA	7.65	130.38	120.44
1	4T	162	ARG	CA-C-N	7.65	130.38	120.44
1	4T	162	ARG	C-N-CA	7.65	130.38	120.44
1	52	36	VAL	CA-C-N	7.65	126.45	120.33
1	52	36	VAL	C-N-CA	7.65	126.45	120.33
1	7t	89	GLY	CA-C-N	7.65	129.40	119.84
1	7t	89	GLY	C-N-CA	7.65	129.40	119.84
1	7y	76	GLU	O-C-N	-7.65	114.01	122.12
1	83	35	GLU	CA-C-O	-7.65	110.03	119.28
1	8b	124	ILE	O-C-N	-7.65	113.62	120.96
1	8h	1	PRO	CA-C-N	7.65	132.96	123.17
1	8h	1	PRO	C-N-CA	7.65	132.96	123.17
1	8w	74	ASN	N-CA-C	7.65	119.62	111.28
1	9f	24	VAL	O-C-N	-7.65	114.45	121.87
1	12	164	TYR	O-C-N	-7.65	114.14	122.09
1	bP	50	GLN	CB-CA-C	7.65	122.89	110.88
1	bV	205	LEU	N-CA-C	7.65	119.70	111.36
1	c3	27	VAL	O-C-N	-7.65	114.45	121.87
1	d4	63	GLN	N-CA-C	7.65	120.50	111.71
1	dg	127	GLY	O-C-N	-7.65	114.85	122.19
1	dW	164	TYR	CA-C-O	7.65	128.89	120.63
1	eu	158	LYS	N-CA-C	-7.65	102.01	112.03
1	ez	136	LEU	CA-C-O	7.65	128.89	120.63
1	eI	197	ASP	CA-C-N	7.65	130.38	120.44
1	eI	197	ASP	C-N-CA	7.65	130.38	120.44
1	fc	134	ILE	N-CA-C	7.65	117.76	110.42
1	fA	132	ARG	N-CA-CB	7.65	121.36	110.12
1	fR	168	PHE	CA-CB-CG	7.65	121.45	113.80
1	fS	92	GLU	CA-C-N	7.65	127.64	119.76
1	fS	92	GLU	C-N-CA	7.65	127.64	119.76
1	g1	126	VAL	N-CA-CB	7.65	119.00	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	166	ASP	CA-C-O	-7.65	112.72	120.90
1	ga	106	GLY	CA-C-N	7.65	130.38	120.44
1	ga	106	GLY	C-N-CA	7.65	130.38	120.44
1	gf	63	GLN	O-C-N	-7.65	112.87	122.27
1	1L	98	GLU	CA-C-N	7.65	128.11	119.93
1	1L	98	GLU	C-N-CA	7.65	128.11	119.93
1	im	120	HIS	CA-C-O	-7.65	113.45	121.55
1	jW	197	ASP	N-CA-C	7.65	119.40	111.14
1	k3	31	ALA	CA-C-N	7.65	133.41	122.09
1	k3	31	ALA	C-N-CA	7.65	133.41	122.09
1	ky	30	LYS	N-CA-C	7.65	120.69	111.82
1	2e	111	LEU	N-CA-C	7.65	119.61	111.28
1	39	156	GLY	CA-C-N	7.65	128.04	119.32
1	39	156	GLY	C-N-CA	7.65	128.04	119.32
1	4v	52	LEU	N-CA-C	7.65	119.61	111.28
1	5p	105	ALA	N-CA-C	7.65	121.87	112.54
1	5H	125	PRO	CA-C-N	7.65	130.46	120.60
1	5H	125	PRO	C-N-CA	7.65	130.46	120.60
1	5P	33	SER	O-C-N	-7.65	112.87	121.43
1	62	203	LYS	CA-C-N	7.65	130.53	120.28
1	62	203	LYS	C-N-CA	7.65	130.53	120.28
1	92	189	LEU	N-CA-C	7.65	120.58	111.33
1	aQ	97	ARG	NE-CZ-NH1	7.65	129.15	121.50
1	eP	113	GLU	CA-C-N	7.65	131.15	120.29
1	eP	113	GLU	C-N-CA	7.65	131.15	120.29
1	1t	12	HIS	CB-CG-CD2	7.65	141.14	131.20
1	fN	80	TRP	CB-CG-CD2	-7.65	116.10	126.80
1	U	171	THR	CA-C-N	7.65	130.38	120.44
1	U	171	THR	C-N-CA	7.65	130.38	120.44
1	gd	120	HIS	ND1-CE1-NE2	7.64	116.04	108.40
1	hp	230	VAL	N-CA-C	-7.64	105.24	111.81
1	hN	100	ARG	NE-CZ-NH1	7.64	129.15	121.50
1	ip	201	ILE	N-CA-C	7.64	117.72	110.53
1	iy	75	GLU	O-C-N	-7.64	114.14	122.09
1	jv	156	GLY	N-CA-C	7.64	121.17	112.00
1	1Z	63	GLN	N-CA-C	7.64	120.50	111.71
1	kz	41	SER	CA-C-O	7.64	128.65	120.55
1	4c	78	ALA	CA-C-N	7.64	130.38	120.44
1	4c	78	ALA	C-N-CA	7.64	130.38	120.44
1	4p	62	HIS	CB-CA-C	-7.64	101.62	111.86
1	4z	70	LYS	N-CA-C	7.64	119.61	111.28
1	4E	121	ASN	OD1-CG-ND2	-7.64	114.95	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5x	103	ASP	CA-CB-CG	-7.64	104.95	112.60
1	6t	86	VAL	N-CA-C	7.64	118.85	110.21
1	6u	42	ALA	N-CA-C	7.64	121.71	112.38
1	6E	102	SER	N-CA-C	7.64	119.61	111.28
1	75	123	PRO	CA-C-N	7.64	128.09	122.59
1	75	123	PRO	C-N-CA	7.64	128.09	122.59
1	7T	71	GLU	N-CA-C	7.64	119.61	111.28
1	8B	62	HIS	N-CA-C	7.64	121.94	111.54
1	8E	106	GLY	N-CA-C	7.64	126.31	115.30
1	8Y	42	ALA	N-CA-C	7.64	119.61	111.28
1	95	156	GLY	CA-C-O	-7.64	110.59	121.52
1	a4	37	ILE	CA-C-O	-7.64	112.35	118.85
1	aK	16	SER	N-CA-C	7.64	118.39	109.60
1	aX	177	ALA	N-CA-C	7.64	120.75	110.35
1	bS	165	VAL	CA-C-O	7.64	128.90	120.95
1	c7	122	PRO	CA-C-N	7.64	129.40	119.84
1	c7	122	PRO	C-N-CA	7.64	129.40	119.84
1	cv	187	GLU	CB-CG-CD	7.64	125.60	112.60
1	cy	18	ARG	NE-CZ-NH1	7.64	129.15	121.50
1	cG	93	PRO	N-CA-CB	7.64	110.11	103.31
1	de	124	ILE	CA-C-O	-7.64	113.20	119.47
1	ds	190	LEU	N-CA-C	7.64	120.58	111.33
1	dK	132	ARG	NE-CZ-NH2	7.64	126.08	119.20
1	eN	33	SER	CA-C-N	7.64	128.34	119.47
1	eN	33	SER	C-N-CA	7.64	128.34	119.47
1	fw	20	LEU	CA-C-N	7.64	130.38	120.44
1	fw	20	LEU	C-N-CA	7.64	130.38	120.44
1	fw	173	ARG	N-CA-C	7.64	120.58	111.33
1	H	119	THR	N-CA-C	-7.64	103.54	113.17
1	g9	105	ALA	CA-C-O	7.64	131.00	119.23
1	h5	179	GLN	OE1-CD-NE2	-7.64	114.96	122.60
1	hu	26	VAL	N-CA-C	7.64	117.76	110.42
1	hE	146	SER	O-C-N	-7.64	112.53	121.32
1	id	179	GLN	N-CA-C	7.64	119.25	111.07
1	jO	21	ASN	CA-CB-CG	7.64	120.24	112.60
1	jW	162	ARG	NE-CZ-NH2	-7.64	112.32	119.20
1	kX	33	SER	O-C-N	-7.64	112.97	121.53
1	2L	115	ILE	CA-C-N	7.64	128.63	119.99
1	2L	115	ILE	C-N-CA	7.64	128.63	119.99
1	3K	25	LYS	N-CA-C	7.64	119.61	111.28
1	3K	131	LYS	O-C-N	-7.64	114.02	122.12
1	3R	195	ASN	CB-CA-C	7.64	121.59	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4r	225	GLY	CA-C-N	7.64	131.94	120.17
1	4r	225	GLY	C-N-CA	7.64	131.94	120.17
1	4W	113	GLU	CA-C-N	7.64	130.38	120.44
1	4W	113	GLU	C-N-CA	7.64	130.38	120.44
1	4Z	210	THR	N-CA-CB	7.64	120.68	110.29
1	5w	167	ARG	N-CA-C	7.64	119.69	111.36
1	6p	87	HIS	CB-CG-CD2	-7.64	121.26	131.20
1	6w	22	ALA	N-CA-C	7.64	120.28	111.11
1	8k	22	ALA	N-CA-CB	-7.64	98.89	110.12
1	8J	152	ASP	N-CA-C	-7.64	103.52	112.92
1	8J	189	LEU	CA-C-N	7.64	130.85	120.38
1	8J	189	LEU	C-N-CA	7.64	130.85	120.38
1	9G	118	MET	O-C-N	-7.64	112.09	122.33
1	ae	84	HIS	CA-C-O	-7.64	110.76	119.32
1	ae	223	GLY	O-C-N	-7.64	114.13	121.77
1	au	36	VAL	CA-C-N	7.64	125.05	120.24
1	au	36	VAL	C-N-CA	7.64	125.05	120.24
1	aA	132	ARG	NE-CZ-NH1	7.64	129.14	121.50
1	bx	42	ALA	O-C-N	-7.64	113.44	122.15
1	c1	103	ASP	CA-C-N	7.64	130.93	120.46
1	c1	103	ASP	C-N-CA	7.64	130.93	120.46
1	c6	89	GLY	CA-C-N	7.64	129.39	119.84
1	c6	89	GLY	C-N-CA	7.64	129.39	119.84
1	co	202	LEU	O-C-N	-7.64	114.20	122.07
1	ex	195	ASN	CA-C-O	-7.64	112.37	120.70
1	eG	82	ARG	NE-CZ-NH2	-7.64	112.32	119.20
1	eZ	87	HIS	CA-CB-CG	-7.64	106.16	113.80
1	R	23	TRP	N-CA-C	7.64	119.25	111.07
1	h5	186	THR	N-CA-C	7.64	119.25	111.07
1	hi	18	ARG	NE-CZ-NH1	7.64	129.14	121.50
1	i7	98	GLU	N-CA-C	7.64	119.53	109.83
1	1Y	195	ASN	CA-CB-CG	7.64	120.24	112.60
1	lE	41	SER	N-CA-CB	7.64	122.12	110.28
1	lM	33	SER	O-C-N	-7.64	113.12	121.53
1	2M	196	PRO	N-CA-CB	7.64	112.00	103.44
1	3I	132	ARG	NE-CZ-NH1	7.64	129.14	121.50
1	8l	93	PRO	CA-C-N	7.64	134.55	120.87
1	8l	93	PRO	C-N-CA	7.64	134.55	120.87
1	9m	163	ASP	CA-C-N	7.64	131.41	120.79
1	9m	163	ASP	C-N-CA	7.64	131.41	120.79
1	bt	68	MET	CG-SD-CE	-7.64	84.09	100.90
1	bY	50	GLN	CA-C-N	7.64	130.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	50	GLN	C-N-CA	7.64	130.83	120.44
1	do	212	GLU	O-C-N	-7.64	114.08	122.03
1	dy	167	ARG	N-CA-C	7.64	119.69	111.36
1	e9	168	PHE	N-CA-C	-7.64	102.89	111.14
1	H	160	PRO	CA-C-N	7.64	130.52	120.28
1	H	160	PRO	C-N-CA	7.64	130.52	120.28
1	gd	143	ARG	NH1-CZ-NH2	-7.64	109.37	119.30
1	gq	87	HIS	N-CA-C	7.64	121.48	110.10
1	gP	190	LEU	N-CA-C	7.64	119.61	111.28
1	h6	9	GLN	CB-CG-CD	7.64	125.59	112.60
1	il	120	HIS	CE1-NE2-CD2	-7.64	101.36	109.00
1	iI	155	GLN	N-CA-C	7.64	122.79	109.96
1	jt	99	PRO	CA-C-O	-7.64	112.70	121.56
1	k6	166	ASP	CB-CA-C	7.64	122.88	110.88
1	kh	90	PRO	CB-CA-C	7.64	118.29	111.87
1	kj	16	SER	CA-C-N	7.64	129.39	119.84
1	kj	16	SER	C-N-CA	7.64	129.39	119.84
1	ky	134	ILE	O-C-N	-7.64	114.46	121.87
1	ky	191	VAL	CA-C-O	7.64	129.22	121.27
1	lq	223	GLY	CA-C-N	7.64	129.39	119.84
1	lq	223	GLY	C-N-CA	7.64	129.39	119.84
1	36	66	MET	N-CA-C	7.64	119.61	111.28
1	3d	103	ASP	CA-CB-CG	-7.64	104.96	112.60
1	3o	60	GLY	CA-C-N	7.64	130.95	122.55
1	3o	60	GLY	C-N-CA	7.64	130.95	122.55
1	3p	16	SER	CA-C-N	7.64	127.35	119.56
1	3p	16	SER	C-N-CA	7.64	127.35	119.56
1	4I	224	PRO	N-CA-C	-7.64	103.16	113.40
1	4J	23	TRP	N-CA-C	7.64	120.28	111.11
1	4V	125	PRO	CA-C-N	7.64	130.93	120.46
1	4V	125	PRO	C-N-CA	7.64	130.93	120.46
1	70	155	GLN	N-CA-C	7.64	120.51	108.67
1	7j	75	GLU	N-CA-CB	-7.64	98.86	110.16
1	7A	141	ILE	N-CA-C	7.64	118.41	110.62
1	9J	48	THR	CA-C-N	7.64	129.39	119.84
1	9J	48	THR	C-N-CA	7.64	129.39	119.84
1	aj	190	LEU	CA-C-N	7.64	130.19	120.56
1	aj	190	LEU	C-N-CA	7.64	130.19	120.56
1	ap	125	PRO	CA-C-N	7.64	131.27	120.42
1	ap	125	PRO	C-N-CA	7.64	131.27	120.42
1	aF	12	HIS	N-CA-CB	7.64	122.56	110.57
1	aO	188	THR	CA-CB-OG1	7.64	121.06	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cF	51	ASP	CA-C-N	7.64	130.52	120.28
1	cF	51	ASP	C-N-CA	7.64	130.52	120.28
1	d9	100	ARG	CA-C-N	7.64	128.46	119.98
1	d9	100	ARG	C-N-CA	7.64	128.46	119.98
1	dW	150	ILE	O-C-N	-7.64	114.19	121.90
1	dY	195	ASN	CA-CB-CG	-7.64	104.96	112.60
1	eP	69	LEU	N-CA-C	7.64	119.24	111.07
1	eY	131	LYS	N-CA-C	7.64	119.24	111.07
1	fi	150	ILE	CA-C-N	7.64	130.52	120.28
1	fi	150	ILE	C-N-CA	7.64	130.52	120.28
1	1A	199	LYS	CA-C-N	7.64	130.37	120.44
1	1A	199	LYS	C-N-CA	7.64	130.37	120.44
1	A	40	PHE	N-CA-C	7.64	119.61	111.28
1	hj	214	MET	O-C-N	-7.64	114.02	122.12
1	hO	171	THR	CA-C-N	7.64	130.51	120.28
1	hO	171	THR	C-N-CA	7.64	130.51	120.28
1	iv	168	PHE	CA-CB-CG	-7.64	106.16	113.80
1	jp	88	ALA	CA-C-N	7.64	132.42	121.42
1	jp	88	ALA	C-N-CA	7.64	132.42	121.42
1	jT	34	PRO	CA-C-N	7.64	131.53	120.38
1	jT	34	PRO	C-N-CA	7.64	131.53	120.38
1	jU	103	ASP	CA-CB-CG	-7.64	104.96	112.60
1	jU	105	ALA	N-CA-CB	-7.64	98.47	110.46
1	km	38	PRO	N-CA-CB	7.64	111.27	103.25
1	lN	58	THR	N-CA-C	7.64	120.28	111.11
1	3h	179	GLN	CA-C-N	7.64	131.14	120.29
1	3h	179	GLN	C-N-CA	7.64	131.14	120.29
1	3F	167	ARG	N-CA-C	7.64	119.39	111.14
1	3K	107	THR	N-CA-C	7.64	119.61	111.28
1	3L	128	GLU	N-CA-C	7.64	119.61	111.28
1	4t	19	THR	N-CA-C	7.64	119.69	111.36
1	64	217	ALA	CA-C-N	7.64	132.96	122.19
1	64	217	ALA	C-N-CA	7.64	132.96	122.19
1	6z	120	HIS	CE1-NE2-CD2	-7.64	101.36	109.00
1	6E	102	SER	CA-C-N	7.64	130.52	120.28
1	6E	102	SER	C-N-CA	7.64	130.52	120.28
1	6Z	166	ASP	CA-C-N	7.64	130.83	120.44
1	6Z	166	ASP	C-N-CA	7.64	130.83	120.44
1	9h	138	LEU	CA-C-N	7.64	130.83	120.44
1	9h	138	LEU	C-N-CA	7.64	130.83	120.44
1	9y	223	GLY	O-C-N	-7.64	114.13	121.77
1	ae	162	ARG	NE-CZ-NH1	7.64	129.14	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	11	126	VAL	N-CA-C	7.64	117.75	110.42
1	bW	36	VAL	CA-C-N	7.64	126.44	120.33
1	bW	36	VAL	C-N-CA	7.64	126.44	120.33
1	cS	168	PHE	CA-C-O	7.64	128.65	120.55
1	k	184	TRP	CB-CG-CD1	-7.64	115.44	126.90
1	gP	212	GLU	CA-C-N	7.64	130.51	120.28
1	gP	212	GLU	C-N-CA	7.64	130.51	120.28
1	gQ	154	ARG	NE-CZ-NH1	7.64	129.14	121.50
1	1J	57	ASN	OD1-CG-ND2	-7.64	114.96	122.60
1	ht	169	TYR	N-CA-C	7.64	119.60	111.28
1	jU	199	LYS	CA-C-N	7.64	130.51	120.28
1	jU	199	LYS	C-N-CA	7.64	130.51	120.28
1	kN	190	LEU	N-CA-C	7.64	119.60	111.28
1	kV	68	MET	CA-C-N	7.64	130.37	120.44
1	kV	68	MET	C-N-CA	7.64	130.37	120.44
1	kW	193	ASN	CA-CB-CG	-7.64	104.96	112.60
1	2z	185	MET	N-CA-C	7.64	119.61	111.28
1	3i	103	ASP	CA-CB-CG	-7.64	104.96	112.60
1	4t	183	ASN	OD1-CG-ND2	-7.64	114.96	122.60
1	5K	136	LEU	CA-C-N	7.64	128.46	119.98
1	5K	136	LEU	C-N-CA	7.64	128.46	119.98
1	68	28	GLU	O-C-N	-7.64	114.09	122.03
1	6j	37	ILE	N-CA-CB	7.64	116.41	110.45
1	6y	167	ARG	N-CA-C	7.64	119.24	111.07
1	6z	99	PRO	N-CA-CB	7.64	109.41	103.30
1	7e	203	LYS	CA-C-N	7.64	131.40	120.79
1	7e	203	LYS	C-N-CA	7.64	131.40	120.79
1	cR	127	GLY	CA-C-O	7.64	128.75	120.66
1	d1	183	ASN	O-C-N	-7.64	114.03	122.12
1	dd	104	ILE	O-C-N	-7.64	113.97	121.83
1	dd	226	HIS	CB-CG-CD2	-7.64	121.27	131.20
1	dF	101	GLY	CA-C-O	7.64	128.24	120.45
1	1o	9	GLN	CA-C-N	7.64	131.67	120.90
1	1o	9	GLN	C-N-CA	7.64	131.67	120.90
1	eE	25	LYS	N-CA-C	7.64	120.57	111.33
1	fx	12	HIS	CE1-NE2-CD2	-7.64	101.36	109.00
1	1A	146	SER	O-C-N	-7.64	114.67	121.31
1	gB	195	ASN	CA-CB-CG	7.63	120.23	112.60
1	hJ	222	GLY	O-C-N	-7.63	112.77	122.70
1	ia	27	VAL	CA-C-N	7.63	130.73	120.65
1	ia	27	VAL	C-N-CA	7.63	130.73	120.65
1	ib	227	LYS	CA-C-N	7.63	131.66	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	227	LYS	C-N-CA	7.63	131.66	120.90
1	iQ	22	ALA	N-CA-C	7.63	119.60	111.28
1	j2	191	VAL	CA-C-O	7.63	128.88	120.71
1	j9	41	SER	CA-C-N	7.63	130.51	120.28
1	j9	41	SER	C-N-CA	7.63	130.51	120.28
1	jV	211	LEU	O-C-N	-7.63	113.29	122.22
1	21	144	MET	N-CA-C	7.63	119.60	111.28
1	22	116	GLY	N-CA-C	7.63	121.89	112.73
1	kO	146	SER	N-CA-C	7.63	118.96	109.57
1	2w	139	ASN	CA-CB-CG	7.63	120.23	112.60
1	3z	21	ASN	OD1-CG-ND2	7.63	130.24	122.60
1	4q	114	GLN	O-C-N	-7.63	114.20	122.07
1	4K	184	TRP	CB-CG-CD2	7.63	137.49	126.80
1	5H	106	GLY	CA-C-O	7.63	127.48	119.01
1	62	87	HIS	CE1-NE2-CD2	-7.63	101.36	109.00
1	7R	7	GLN	N-CA-C	7.63	120.85	108.41
1	7W	129	ILE	CA-C-N	7.63	130.51	120.28
1	7W	129	ILE	C-N-CA	7.63	130.51	120.28
1	8j	210	THR	O-C-N	-7.63	114.09	122.79
1	8r	214	MET	N-CA-C	7.63	119.60	111.28
1	8O	18	ARG	NE-CZ-NH2	-7.63	112.33	119.20
1	b6	162	ARG	CA-C-N	7.63	130.51	120.28
1	b6	162	ARG	C-N-CA	7.63	130.51	120.28
1	bV	185	MET	N-CA-C	7.63	119.60	111.28
1	cR	87	HIS	CA-CB-CG	7.63	121.44	113.80
1	dI	72	THR	CA-C-N	7.63	130.77	120.77
1	dI	72	THR	C-N-CA	7.63	130.77	120.77
1	dO	203	LYS	CA-C-N	7.63	133.47	120.72
1	dO	203	LYS	C-N-CA	7.63	133.47	120.72
1	eb	144	MET	CG-SD-CE	-7.63	84.10	100.90
1	es	141	ILE	CA-C-N	7.63	131.26	120.42
1	es	141	ILE	C-N-CA	7.63	131.26	120.42
1	eC	37	ILE	N-CA-C	7.63	121.51	112.35
1	a	96	MET	CA-C-O	-7.63	112.53	121.16
1	jx	78	ALA	O-C-N	-7.63	113.45	122.15
1	kV	163	ASP	CA-CB-CG	-7.63	104.97	112.60
1	kX	120	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
1	l5	12	HIS	CA-CB-CG	-7.63	106.17	113.80
1	lx	97	ARG	NE-CZ-NH2	-7.63	112.33	119.20
1	2M	193	ASN	OD1-CG-ND2	-7.63	114.97	122.60
1	2S	117	TRP	CB-CG-CD2	7.63	137.49	126.80
1	6j	173	ARG	NE-CZ-NH1	7.63	129.13	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	107	THR	CA-C-O	-7.63	112.38	120.55
1	70	76	GLU	N-CA-C	7.63	121.08	111.69
1	7H	171	THR	CA-C-N	7.63	130.51	120.28
1	7H	171	THR	C-N-CA	7.63	130.51	120.28
1	an	63	GLN	N-CA-C	7.63	119.24	111.07
1	bo	126	VAL	N-CA-C	7.63	118.41	110.62
1	cD	14	ALA	N-CA-C	7.63	120.16	110.24
1	cK	87	HIS	CA-CB-CG	-7.63	106.17	113.80
1	dF	164	TYR	CA-C-N	7.63	130.18	120.56
1	dF	164	TYR	C-N-CA	7.63	130.18	120.56
1	ea	12	HIS	CA-CB-CG	7.63	121.43	113.80
1	eP	180	GLU	N-CA-C	7.63	119.60	111.28
1	fq	55	MET	CA-C-N	7.63	130.36	120.44
1	fq	55	MET	C-N-CA	7.63	130.36	120.44
1	fA	213	GLU	N-CA-C	7.63	119.60	111.28
1	1z	128	GLU	N-CA-C	7.63	119.24	111.07
1	gB	62	HIS	ND1-CG-CD2	7.63	113.73	106.10
1	gC	71	GLU	N-CA-CB	7.63	121.14	110.07
1	hz	77	ALA	CA-C-O	7.63	129.06	120.90
1	hF	50	GLN	O-C-N	-7.63	113.85	122.09
1	in	156	GLY	O-C-N	-7.63	114.14	121.77
1	iE	21	ASN	OD1-CG-ND2	-7.63	114.97	122.60
1	iV	55	MET	N-CA-C	7.63	119.38	111.14
1	1Y	126	VAL	CA-C-O	-7.63	113.11	121.05
1	kc	174	ALA	O-C-N	-7.63	114.03	122.12
1	kK	36	VAL	CA-C-N	7.63	126.44	120.33
1	kK	36	VAL	C-N-CA	7.63	126.44	120.33
1	2m	12	HIS	CG-CD2-NE2	7.63	114.83	107.20
1	32	179	GLN	N-CA-C	7.63	119.24	111.07
1	3a	16	SER	O-C-N	-7.63	114.49	121.66
1	3w	164	TYR	CA-C-N	7.63	130.18	120.56
1	3w	164	TYR	C-N-CA	7.63	130.18	120.56
1	5h	52	LEU	N-CA-C	7.63	119.60	111.28
1	5j	71	GLU	N-CA-C	7.63	119.60	111.28
1	5p	84	HIS	CG-CD2-NE2	7.63	114.83	107.20
1	7i	190	LEU	O-C-N	7.63	130.21	122.12
1	7M	134	ILE	N-CA-CB	7.63	119.48	110.55
1	8h	179	GLN	N-CA-C	7.63	120.56	111.33
1	8R	91	ILE	CA-C-O	7.63	125.70	119.29
1	93	82	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	9N	42	ALA	O-C-N	-7.63	112.88	122.27
1	a4	87	HIS	CB-CG-CD2	-7.63	121.28	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	al	173	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	ap	97	ARG	NE-CZ-NH2	7.63	126.07	119.20
1	ar	156	GLY	CA-C-N	7.63	127.17	118.85
1	ar	156	GLY	C-N-CA	7.63	127.17	118.85
1	12	26	VAL	CA-C-N	7.63	130.91	120.46
1	12	26	VAL	C-N-CA	7.63	130.91	120.46
1	aT	186	THR	CA-C-N	7.63	130.36	120.44
1	aT	186	THR	C-N-CA	7.63	130.36	120.44
1	bI	223	GLY	O-C-N	-7.63	114.14	121.77
1	cM	178	SER	CA-C-N	7.63	130.36	120.44
1	cM	178	SER	C-N-CA	7.63	130.36	120.44
1	e0	42	ALA	N-CA-C	7.63	119.60	111.28
1	eD	129	ILE	CA-C-O	-7.63	113.08	121.17
1	eN	145	TYR	N-CA-C	7.63	119.60	111.28
1	fk	162	ARG	NH1-CZ-NH2	-7.63	109.38	119.30
1	fC	168	PHE	CA-CB-CG	7.63	121.43	113.80
1	H	84	HIS	CB-CA-C	7.63	117.64	111.00
1	O	84	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
1	ga	97	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	gd	97	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	33	88	ALA	CA-C-O	7.63	129.88	121.56
1	6n	95	GLN	O-C-N	-7.63	113.96	123.27
1	7k	92	GLU	CA-C-N	7.63	127.68	119.90
1	7k	92	GLU	C-N-CA	7.63	127.68	119.90
1	8D	15	ILE	O-C-N	-7.63	114.41	122.57
1	9F	33	SER	O-C-N	-7.63	113.14	121.53
1	9F	226	HIS	CA-CB-CG	-7.63	106.17	113.80
1	aK	12	HIS	CB-CG-CD2	-7.63	121.28	131.20
1	bs	103	ASP	CA-C-N	7.63	131.25	120.42
1	bs	103	ASP	C-N-CA	7.63	131.25	120.42
1	1c	126	VAL	CA-C-N	7.63	128.41	119.94
1	1c	126	VAL	C-N-CA	7.63	128.41	119.94
1	dv	164	TYR	N-CA-C	7.63	119.60	111.28
1	dX	159	GLU	CA-C-N	7.63	127.62	119.76
1	dX	159	GLU	C-N-CA	7.63	127.62	119.76
1	fn	111	LEU	CA-C-N	7.63	130.84	120.54
1	fn	111	LEU	C-N-CA	7.63	130.84	120.54
1	fz	125	PRO	CA-C-N	7.63	130.17	120.56
1	fz	125	PRO	C-N-CA	7.63	130.17	120.56
1	C	195	ASN	CA-CB-CG	7.63	120.23	112.60
1	gH	159	GLU	CA-C-O	-7.63	113.67	119.32
1	ht	181	VAL	N-CA-C	7.63	118.40	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hI	181	VAL	N-CA-C	7.63	117.74	110.42
1	iR	195	ASN	CA-CB-CG	7.63	120.23	112.60
1	jI	26	VAL	N-CA-CB	7.63	120.91	110.54
1	k3	33	SER	CA-C-O	-7.63	113.62	120.56
1	kz	33	SER	CA-C-N	7.63	129.38	119.84
1	kz	33	SER	C-N-CA	7.63	129.38	119.84
1	kB	220	GLY	O-C-N	-7.63	114.87	122.19
1	2D	142	VAL	CB-CA-C	-7.63	102.12	111.88
1	2H	143	ARG	CA-C-N	7.63	130.83	120.38
1	2H	143	ARG	C-N-CA	7.63	130.83	120.38
1	3t	87	HIS	CB-CG-CD2	-7.63	121.28	131.20
1	3F	133	TRP	N-CA-C	7.63	119.59	111.28
1	3S	21	ASN	O-C-N	-7.63	113.45	122.15
1	4h	138	LEU	CA-C-N	7.63	130.50	120.28
1	4h	138	LEU	C-N-CA	7.63	130.50	120.28
1	5r	87	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
1	5H	199	LYS	O-C-N	-7.63	114.03	122.12
1	6z	62	HIS	N-CA-C	7.63	121.92	111.54
1	6R	82	ARG	NE-CZ-NH2	7.63	126.06	119.20
1	6V	21	ASN	N-CA-C	7.63	119.60	111.28
1	7s	16	SER	CA-C-N	7.63	127.52	119.05
1	7s	16	SER	C-N-CA	7.63	127.52	119.05
1	7t	15	ILE	O-C-N	-7.63	114.55	122.63
1	7A	176	GLN	OE1-CD-NE2	-7.63	114.97	122.60
1	8R	98	GLU	N-CA-C	7.63	121.19	110.20
1	9F	54	THR	N-CA-C	-7.63	102.97	111.28
1	a4	104	ILE	N-CA-C	7.63	118.40	110.62
1	aj	25	LYS	N-CA-C	7.63	119.23	111.07
1	cf	92	GLU	O-C-N	-7.63	114.33	121.35
1	cI	119	THR	CA-C-N	7.63	136.11	121.54
1	cI	119	THR	C-N-CA	7.63	136.11	121.54
1	di	92	GLU	CA-C-N	7.63	127.67	119.89
1	di	92	GLU	C-N-CA	7.63	127.67	119.89
1	dz	140	LYS	CA-C-N	7.63	130.17	120.56
1	dz	140	LYS	C-N-CA	7.63	130.17	120.56
1	1t	77	ALA	N-CA-C	7.63	119.59	111.28
1	eR	16	SER	CA-C-N	7.63	127.80	119.87
1	eR	16	SER	C-N-CA	7.63	127.80	119.87
1	l	33	SER	CA-C-N	7.63	127.34	119.56
1	l	33	SER	C-N-CA	7.63	127.34	119.56
1	gI	180	GLU	N-CA-C	7.63	120.26	111.11
1	gP	130	TYR	CA-C-N	7.63	130.83	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gP	130	TYR	C-N-CA	7.63	130.83	120.38
1	hw	143	ARG	N-CA-C	7.63	119.50	111.03
1	ij	63	GLN	N-CA-C	7.63	119.28	110.97
1	iq	121	ASN	OD1-CG-ND2	-7.63	114.97	122.60
1	iG	183	ASN	CA-C-N	7.63	130.35	120.44
1	iG	183	ASN	C-N-CA	7.63	130.35	120.44
1	iI	132	ARG	NE-CZ-NH2	-7.63	112.34	119.20
1	iO	59	VAL	O-C-N	-7.63	114.10	122.64
1	iR	230	VAL	CA-C-O	-7.63	112.28	120.59
1	4V	152	ASP	N-CA-CB	-7.63	99.41	110.47
1	5a	179	GLN	N-CA-C	7.63	120.48	111.71
1	5H	39	MET	O-C-N	-7.63	114.04	122.12
1	5O	124	ILE	N-CA-C	-7.63	100.00	107.55
1	6p	70	LYS	N-CA-C	7.63	119.59	111.28
1	6H	142	VAL	CA-C-N	7.63	130.35	120.44
1	6H	142	VAL	C-N-CA	7.63	130.35	120.44
1	74	201	ILE	N-CA-CB	7.63	119.47	110.55
1	7n	9	GLN	CA-C-O	7.63	128.27	119.35
1	8o	143	ARG	N-CA-C	7.63	119.59	111.28
1	au	23	TRP	N-CA-C	7.63	120.33	111.02
1	aW	226	HIS	CA-CB-CG	-7.63	106.17	113.80
1	c1	130	TYR	CA-C-O	7.63	128.83	120.82
1	dh	177	ALA	CA-C-O	7.63	129.61	121.45
1	dO	152	ASP	N-CA-C	7.63	122.16	113.01
1	dZ	171	THR	N-CA-CB	7.63	121.33	110.12
1	f3	226	HIS	CA-CB-CG	-7.63	106.17	113.80
1	f5	120	HIS	O-C-N	-7.63	113.43	122.81
1	p	207	PRO	N-CA-C	7.63	123.04	111.14
1	C	37	ILE	N-CA-CB	7.63	116.40	110.45
1	J	18	ARG	NE-CZ-NH1	7.63	129.13	121.50
1	1S	114	GLN	OE1-CD-NE2	-7.62	114.97	122.60
1	1W	103	ASP	N-CA-C	7.62	119.59	111.28
1	kT	144	MET	N-CA-C	-7.62	104.11	113.41
1	3E	156	GLY	CA-C-N	7.62	129.37	119.84
1	3E	156	GLY	C-N-CA	7.62	129.37	119.84
1	42	75	GLU	N-CA-C	7.62	119.67	111.36
1	5T	42	ALA	CA-C-N	7.62	130.35	120.44
1	5T	42	ALA	C-N-CA	7.62	130.35	120.44
1	8J	146	SER	N-CA-C	7.62	118.95	109.57
1	8P	5	ASN	CA-CB-CG	-7.62	104.97	112.60
1	bd	214	MET	CA-C-O	-7.62	112.81	120.82
1	bM	21	ASN	N-CA-C	7.62	119.59	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d6	3	VAL	CA-C-N	7.62	131.57	120.82
1	d6	3	VAL	C-N-CA	7.62	131.57	120.82
1	1m	210	THR	O-C-N	-7.62	113.43	122.81
1	eM	56	LEU	CA-C-O	7.62	128.63	120.55
1	fP	84	HIS	ND1-CE1-NE2	7.62	116.03	108.40
1	gF	126	VAL	CA-C-N	7.62	129.94	120.34
1	gF	126	VAL	C-N-CA	7.62	129.94	120.34
1	hh	64	ALA	O-C-N	-7.62	114.22	122.07
1	1R	39	MET	CA-C-N	7.62	130.71	120.65
1	1R	39	MET	C-N-CA	7.62	130.71	120.65
1	jF	84	HIS	CE1-NE2-CD2	-7.62	101.38	109.00
1	jR	16	SER	CA-C-N	7.62	129.37	119.84
1	jR	16	SER	C-N-CA	7.62	129.37	119.84
1	kT	58	THR	N-CA-C	7.62	119.59	111.28
1	lB	54	THR	O-C-N	-7.62	113.46	122.15
1	lB	162	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	2b	213	GLU	CA-C-N	7.62	130.50	120.28
1	2b	213	GLU	C-N-CA	7.62	130.50	120.28
1	3i	213	GLU	N-CA-C	7.62	119.59	111.28
1	4n	136	LEU	CA-C-N	7.62	128.60	119.99
1	4n	136	LEU	C-N-CA	7.62	128.60	119.99
1	4R	55	MET	CA-C-N	7.62	130.35	120.44
1	4R	55	MET	C-N-CA	7.62	130.35	120.44
1	5K	200	THR	CA-C-O	7.62	128.63	120.55
1	5L	158	LYS	CA-C-O	7.62	128.94	119.95
1	7m	5	ASN	CA-CB-CG	-7.62	104.98	112.60
1	7D	111	LEU	O-C-N	-7.62	114.04	122.12
1	7J	102	SER	N-CA-C	7.62	119.59	111.28
1	8x	29	GLU	N-CA-C	7.62	122.71	113.41
1	8z	75	GLU	N-CA-C	7.62	119.59	111.28
1	8L	177	ALA	O-C-N	-7.62	113.06	122.82
1	9o	19	THR	O-C-N	-7.62	114.04	122.12
1	9A	177	ALA	N-CA-C	7.62	121.02	110.35
1	9V	193	ASN	OD1-CG-ND2	-7.62	114.98	122.60
1	aB	50	GLN	N-CA-C	7.62	119.67	111.36
1	15	49	PRO	N-CA-CB	7.62	111.60	103.52
1	br	142	VAL	N-CA-C	7.62	117.74	110.42
1	cy	114	GLN	N-CA-C	7.62	119.28	110.97
1	d8	188	THR	CA-C-O	7.62	128.82	120.82
1	dz	163	ASP	CA-CB-CG	-7.62	104.98	112.60
1	dK	37	ILE	CA-C-N	7.62	126.90	118.97
1	dK	37	ILE	C-N-CA	7.62	126.90	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eQ	135	ILE	CA-C-N	7.62	130.83	120.54
1	eQ	135	ILE	C-N-CA	7.62	130.83	120.54
1	8	159	GLU	N-CA-C	7.62	123.24	109.44
1	gt	24	VAL	N-CA-C	7.62	118.42	110.72
1	hj	130	TYR	CA-C-O	7.62	128.73	119.97
1	jp	163	ASP	CA-C-O	7.62	128.63	120.55
1	kq	7	GLN	N-CA-C	-7.62	103.57	113.17
1	2m	101	GLY	CA-C-N	7.62	130.35	120.44
1	2m	101	GLY	C-N-CA	7.62	130.35	120.44
1	2t	136	LEU	CA-C-N	7.62	128.25	119.94
1	2t	136	LEU	C-N-CA	7.62	128.25	119.94
1	3C	33	SER	CA-C-O	-7.62	112.39	120.70
1	4z	145	TYR	CA-C-O	-7.62	110.43	119.35
1	4T	37	ILE	N-CA-CB	7.62	116.39	110.45
1	5f	96	MET	CG-SD-CE	-7.62	84.13	100.90
1	6H	179	GLN	N-CA-C	7.62	120.26	111.11
1	6Z	20	LEU	N-CA-C	7.62	119.22	111.07
1	7I	119	THR	CA-CB-OG1	7.62	121.03	109.60
1	8g	20	LEU	CA-C-N	7.62	130.49	120.28
1	8g	20	LEU	C-N-CA	7.62	130.49	120.28
1	8q	106	GLY	CA-C-N	7.62	130.35	120.44
1	8q	106	GLY	C-N-CA	7.62	130.35	120.44
1	8R	35	GLU	CA-C-N	7.62	130.43	120.60
1	8R	35	GLU	C-N-CA	7.62	130.43	120.60
1	95	162	ARG	N-CA-C	7.62	119.59	111.28
1	9n	112	GLN	N-CA-C	7.62	119.22	111.07
1	9M	112	GLN	OE1-CD-NE2	-7.62	114.98	122.60
1	ae	23	TRP	N-CA-C	7.62	119.59	111.28
1	aj	223	GLY	N-CA-C	7.62	121.45	112.23
1	ao	135	ILE	CA-C-O	7.62	128.88	120.95
1	az	87	HIS	CA-C-N	7.62	132.56	122.42
1	az	87	HIS	C-N-CA	7.62	132.56	122.42
1	aJ	77	ALA	CA-C-N	7.62	130.49	120.28
1	aJ	77	ALA	C-N-CA	7.62	130.49	120.28
1	b5	128	GLU	CA-C-N	7.62	130.16	120.56
1	b5	128	GLU	C-N-CA	7.62	130.16	120.56
1	bh	180	GLU	O-C-N	-7.62	114.22	122.07
1	bq	53	ASN	CA-CB-CG	-7.62	104.98	112.60
1	bW	103	ASP	CA-C-N	7.62	130.90	120.46
1	bW	103	ASP	C-N-CA	7.62	130.90	120.46
1	co	108	THR	N-CA-C	7.62	121.89	112.59
1	cZ	96	MET	N-CA-C	7.62	120.72	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	55	MET	N-CA-C	7.62	119.59	111.28
1	dM	71	GLU	CA-C-N	7.62	130.71	120.65
1	dM	71	GLU	C-N-CA	7.62	130.71	120.65
1	e5	148	THR	O-C-N	-7.62	114.94	123.48
1	f1	164	TYR	N-CA-C	7.62	120.25	111.11
1	g5	168	PHE	CA-CB-CG	7.62	121.42	113.80
1	m	67	GLN	N-CA-C	7.62	119.67	111.36
1	gO	28	GLU	N-CA-C	7.62	120.55	111.33
1	ik	167	ARG	CA-C-N	7.62	130.83	120.54
1	ik	167	ARG	C-N-CA	7.62	130.83	120.54
1	k4	225	GLY	CA-C-N	7.62	131.65	120.90
1	k4	225	GLY	C-N-CA	7.62	131.65	120.90
1	2g	229	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	2l	26	VAL	N-CA-C	7.62	117.69	110.30
1	30	143	ARG	N-CA-C	7.62	120.66	111.82
1	3t	194	ALA	CA-C-N	7.62	131.01	120.65
1	3t	194	ALA	C-N-CA	7.62	131.01	120.65
1	4d	126	VAL	N-CA-C	7.62	118.36	110.36
1	6v	33	SER	CA-C-O	-7.62	112.14	119.91
1	7U	206	GLY	N-CA-C	7.62	121.14	112.00
1	cF	179	GLN	O-C-N	-7.62	114.04	122.12
1	eb	184	TRP	N-CA-C	7.62	119.59	111.28
1	ej	103	ASP	CA-C-O	7.62	128.63	120.55
1	y	10	MET	CG-SD-CE	-7.62	84.14	100.90
1	7	201	ILE	CA-C-N	7.62	131.89	120.31
1	7	201	ILE	C-N-CA	7.62	131.89	120.31
1	gy	152	ASP	O-C-N	-7.62	112.82	122.34
1	gC	71	GLU	CA-C-O	7.62	128.55	120.70
1	he	2	ILE	CA-C-O	7.62	129.73	120.74
1	iZ	140	LYS	CB-CA-C	-7.62	98.14	110.79
1	j2	139	ASN	CA-C-N	7.62	130.80	120.44
1	j2	139	ASN	C-N-CA	7.62	130.80	120.44
1	ji	84	HIS	O-C-N	7.62	127.78	121.31
1	jD	184	TRP	CA-C-N	7.62	130.49	120.28
1	jD	184	TRP	C-N-CA	7.62	130.49	120.28
1	1X	36	VAL	CA-C-O	7.62	128.93	120.85
1	jJ	107	THR	N-CA-C	7.62	120.55	111.33
1	2w	195	ASN	CA-CB-CG	7.62	120.22	112.60
1	2y	77	ALA	N-CA-C	7.62	119.58	111.28
1	32	68	MET	CG-SD-CE	-7.62	84.14	100.90
1	3l	14	ALA	N-CA-C	7.62	120.14	110.24
1	4l	221	VAL	O-C-N	-7.62	114.52	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5x	84	HIS	CE1-NE2-CD2	-7.62	101.38	109.00
1	5A	120	HIS	CE1-NE2-CD2	-7.62	101.38	109.00
1	5X	81	ASP	CA-C-O	-7.62	112.47	120.55
1	6e	144	MET	CA-C-O	-7.62	112.82	120.82
1	6j	76	GLU	CA-C-N	7.62	130.49	120.28
1	6j	76	GLU	C-N-CA	7.62	130.49	120.28
1	6s	124	ILE	O-C-N	-7.62	116.57	121.37
1	6B	170	LYS	N-CA-C	7.62	119.58	111.28
1	6H	79	GLU	N-CA-C	7.62	120.25	111.11
1	6W	174	ALA	CA-C-N	7.62	132.66	121.31
1	6W	174	ALA	C-N-CA	7.62	132.66	121.31
1	79	79	GLU	CA-C-N	7.62	130.49	120.28
1	79	79	GLU	C-N-CA	7.62	130.49	120.28
1	83	59	VAL	CA-C-N	7.62	129.90	120.22
1	83	59	VAL	C-N-CA	7.62	129.90	120.22
1	83	159	GLU	N-CA-C	7.62	120.45	109.48
1	8L	168	PHE	CA-C-N	7.62	130.49	120.28
1	8L	168	PHE	C-N-CA	7.62	130.49	120.28
1	9w	92	GLU	N-CA-C	7.62	120.45	109.48
1	9G	229	ARG	N-CA-C	-7.62	103.05	112.88
1	9L	48	THR	CA-C-O	-7.62	112.49	120.87
1	9T	229	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	ad	159	GLU	O-C-N	-7.62	114.34	121.35
1	bF	82	ARG	NH1-CZ-NH2	-7.62	109.40	119.30
1	bW	136	LEU	CA-C-N	7.62	128.44	119.98
1	bW	136	LEU	C-N-CA	7.62	128.44	119.98
1	cd	68	MET	CA-C-N	7.62	130.80	120.44
1	cd	68	MET	C-N-CA	7.62	130.80	120.44
1	ce	25	LYS	N-CA-C	7.62	119.58	111.28
1	cX	13	GLN	CG-CD-NE2	7.62	127.83	116.40
1	dG	15	ILE	N-CA-C	7.62	119.65	109.37
1	dJ	5	ASN	CA-C-N	7.62	130.82	120.38
1	dJ	5	ASN	C-N-CA	7.62	130.82	120.38
1	dT	188	THR	CA-C-N	7.62	136.09	121.54
1	dT	188	THR	C-N-CA	7.62	136.09	121.54
1	ex	138	LEU	N-CA-C	7.62	119.58	111.28
1	g6	141	ILE	N-CA-C	7.62	118.39	110.62
1	u	160	PRO	CA-C-N	7.62	131.25	120.28
1	u	160	PRO	C-N-CA	7.62	131.25	120.28
1	hi	229	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	hS	33	SER	N-CA-C	7.62	120.43	109.84
1	iO	219	GLN	OE1-CD-NE2	-7.62	114.98	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iZ	120	HIS	CE1-NE2-CD2	-7.62	101.38	109.00
1	kd	115	ILE	CA-C-N	7.62	128.60	119.99
1	kd	115	ILE	C-N-CA	7.62	128.60	119.99
1	2M	128	GLU	CA-C-N	7.62	130.43	120.60
1	2M	128	GLU	C-N-CA	7.62	130.43	120.60
1	3h	67	GLN	N-CA-C	7.62	119.58	111.28
1	3P	7	GLN	OE1-CD-NE2	-7.62	114.98	122.60
1	51	91	ILE	CB-CA-C	-7.62	101.86	112.14
1	5E	192	GLN	N-CA-C	7.62	120.55	111.33
1	7i	54	THR	CA-C-N	7.62	130.34	120.44
1	7i	54	THR	C-N-CA	7.62	130.34	120.44
1	7Q	220	GLY	CA-C-N	7.62	131.24	120.42
1	7Q	220	GLY	C-N-CA	7.62	131.24	120.42
1	89	7	GLN	CA-C-O	7.62	126.90	118.52
1	8m	224	PRO	N-CA-CB	7.62	110.05	103.19
1	bA	77	ALA	N-CA-C	7.62	120.47	111.71
1	1b	69	LEU	CA-C-N	7.62	130.34	120.44
1	1b	69	LEU	C-N-CA	7.62	130.34	120.44
1	cP	166	ASP	CA-C-N	7.62	131.11	120.29
1	cP	166	ASP	C-N-CA	7.62	131.11	120.29
1	eX	156	GLY	O-C-N	-7.62	113.35	122.03
1	1x	159	GLU	CA-C-N	7.62	127.28	119.82
1	1x	159	GLU	C-N-CA	7.62	127.28	119.82
1	9	57	ASN	CA-CB-CG	-7.62	104.98	112.60
1	go	18	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	gI	84	HIS	CA-C-O	-7.62	112.46	119.62
1	i3	50	GLN	O-C-N	-7.62	114.17	122.09
1	i5	55	MET	CA-C-O	7.62	128.49	120.42
1	iM	26	VAL	O-C-N	7.62	129.67	121.83
1	j0	180	GLU	N-CA-C	7.62	120.55	111.33
1	jg	194	ALA	CA-C-N	7.62	131.01	120.65
1	jg	194	ALA	C-N-CA	7.62	131.01	120.65
1	ju	115	ILE	CA-C-N	7.62	128.43	119.98
1	ju	115	ILE	C-N-CA	7.62	128.43	119.98
1	jX	120	HIS	CG-CD2-NE2	7.62	114.81	107.20
1	kn	135	ILE	N-CA-C	7.62	118.39	110.62
1	ly	47	ALA	N-CA-C	7.62	122.25	109.76
1	lQ	130	TYR	N-CA-C	7.62	119.66	111.36
1	2i	166	ASP	CA-CB-CG	7.62	120.22	112.60
1	2j	142	VAL	CA-CB-CG2	-7.62	97.45	110.40
1	2V	24	VAL	CA-C-N	7.62	130.99	120.63
1	2V	24	VAL	C-N-CA	7.62	130.99	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4n	71	GLU	CA-C-N	7.62	130.34	120.44
1	4n	71	GLU	C-N-CA	7.62	130.34	120.44
1	4n	160	PRO	CA-C-N	7.62	130.81	120.38
1	4n	160	PRO	C-N-CA	7.62	130.81	120.38
1	4V	65	ALA	CA-C-O	7.62	128.49	120.42
1	4Z	57	ASN	OD1-CG-ND2	-7.62	114.98	122.60
1	5x	87	HIS	CA-CB-CG	7.62	121.42	113.80
1	6Q	35	GLU	CA-C-N	7.62	131.23	120.42
1	6Q	35	GLU	C-N-CA	7.62	131.23	120.42
1	6Y	141	ILE	N-CA-C	7.62	117.73	110.42
1	7e	167	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	7f	59	VAL	CB-CA-C	-7.62	99.98	111.33
1	7s	57	ASN	OD1-CG-ND2	-7.62	114.98	122.60
1	7Z	33	SER	CA-C-N	7.62	129.36	119.84
1	7Z	33	SER	C-N-CA	7.62	129.36	119.84
1	7Z	75	GLU	N-CA-C	7.62	119.58	111.28
1	8I	197	ASP	CA-CB-CG	-7.62	104.98	112.60
1	9m	156	GLY	O-C-N	-7.62	114.15	121.77
1	9x	57	ASN	OD1-CG-ND2	-7.62	114.98	122.60
1	10	212	GLU	N-CA-C	7.62	119.58	111.28
1	ak	114	GLN	CA-C-N	7.62	132.50	120.47
1	ak	114	GLN	C-N-CA	7.62	132.50	120.47
1	aQ	104	ILE	N-CA-CB	7.62	119.46	110.55
1	bk	230	VAL	CA-C-O	7.62	130.30	120.78
1	bF	229	ARG	NH1-CZ-NH2	-7.62	109.40	119.30
1	bQ	39	MET	N-CA-CB	7.62	121.05	110.01
1	bY	168	PHE	CA-CB-CG	7.62	121.42	113.80
1	ce	97	ARG	NE-CZ-NH1	7.62	129.12	121.50
1	1k	158	LYS	N-CA-C	-7.62	103.09	113.30
1	dJ	112	GLN	CB-CA-C	7.62	123.43	110.79
1	1o	53	ASN	CA-C-N	7.62	130.48	120.28
1	1o	53	ASN	C-N-CA	7.62	130.48	120.28
1	el	45	GLU	N-CA-C	7.62	120.78	109.59
1	eE	207	PRO	CA-C-O	-7.62	108.73	118.86
1	fc	103	ASP	CB-CA-C	-7.62	97.91	110.85
1	O	180	GLU	N-CA-CB	7.62	121.05	110.01
1	gh	203	LYS	N-CA-C	7.61	119.66	111.36
1	hf	18	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	hl	82	ARG	O-C-N	-7.61	114.23	122.07
1	jC	4	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	kS	97	ARG	NE-CZ-NH2	7.61	126.05	119.20
1	2s	159	GLU	O-C-N	-7.61	114.52	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2R	201	ILE	CA-C-N	7.61	134.46	121.14
1	2R	201	ILE	C-N-CA	7.61	134.46	121.14
1	4C	43	LEU	N-CA-C	7.61	119.22	111.07
1	5c	100	ARG	CA-C-N	7.61	128.59	119.99
1	5c	100	ARG	C-N-CA	7.61	128.59	119.99
1	5h	54	THR	O-C-N	-7.61	114.05	122.12
1	5u	195	ASN	OD1-CG-ND2	-7.61	114.99	122.60
1	64	5	ASN	CA-C-O	7.61	127.39	118.79
1	7A	84	HIS	CE1-NE2-CD2	-7.61	101.39	109.00
1	8H	166	ASP	CA-C-N	7.61	130.34	120.44
1	8H	166	ASP	C-N-CA	7.61	130.34	120.44
1	91	23	TRP	CA-C-N	7.61	130.31	120.56
1	91	23	TRP	C-N-CA	7.61	130.31	120.56
1	bv	199	LYS	N-CA-C	7.61	120.65	111.82
1	cv	14	ALA	CA-C-O	7.61	129.66	121.44
1	cJ	127	GLY	CA-C-N	7.61	130.34	120.44
1	cJ	127	GLY	C-N-CA	7.61	130.34	120.44
1	1o	209	ALA	N-CA-C	7.61	121.91	110.64
1	eL	180	GLU	O-C-N	-7.61	114.05	122.12
1	fD	143	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	fY	91	ILE	CA-C-O	7.61	127.58	120.80
1	H	195	ASN	CA-CB-CG	7.61	120.21	112.60
1	gM	226	HIS	CA-CB-CG	7.61	121.41	113.80
1	ik	120	HIS	CA-CB-CG	7.61	121.41	113.80
1	js	80	TRP	N-CA-C	7.61	119.58	111.28
1	4I	14	ALA	N-CA-C	7.61	120.58	110.53
1	6U	167	ARG	N-CA-C	7.61	119.58	111.28
1	9e	132	ARG	CA-C-N	7.61	130.82	120.54
1	9e	132	ARG	C-N-CA	7.61	130.82	120.54
1	9j	180	GLU	CA-C-O	7.61	128.62	120.55
1	cK	101	GLY	CA-C-N	7.61	131.88	120.31
1	cK	101	GLY	C-N-CA	7.61	131.88	120.31
1	d3	80	TRP	O-C-N	-7.61	114.05	122.12
1	do	103	ASP	CA-C-N	7.61	130.15	120.56
1	do	103	ASP	C-N-CA	7.61	130.15	120.56
1	1	40	PHE	CA-CB-CG	7.61	121.41	113.80
1	hv	53	ASN	CA-C-N	7.61	130.34	120.44
1	hv	53	ASN	C-N-CA	7.61	130.34	120.44
1	1P	25	LYS	CA-C-N	7.61	130.42	120.60
1	1P	25	LYS	C-N-CA	7.61	130.42	120.60
1	jt	97	ARG	NE-CZ-NH2	7.61	126.05	119.20
1	kE	138	LEU	CA-C-O	-7.61	112.41	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kQ	123	PRO	CB-CA-C	-7.61	101.49	111.23
1	lt	214	MET	CA-C-N	7.61	130.48	120.28
1	lt	214	MET	C-N-CA	7.61	130.48	120.28
1	4R	127	GLY	O-C-N	-7.61	112.81	122.70
1	5C	156	GLY	O-C-N	-7.61	115.57	122.42
1	7e	18	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	7i	212	GLU	N-CA-C	7.61	119.21	111.07
1	7t	182	LYS	N-CA-CB	7.61	121.28	109.94
1	7Z	133	TRP	CA-C-N	7.61	130.89	120.46
1	7Z	133	TRP	C-N-CA	7.61	130.89	120.46
1	8p	62	HIS	ND1-CG-CD2	7.61	113.71	106.10
1	9c	155	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	9i	95	GLN	CA-C-O	7.61	129.86	121.56
1	9s	102	SER	N-CA-C	7.61	119.66	111.36
1	9E	176	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	9G	43	LEU	N-CA-C	-7.61	103.97	113.18
1	9Z	66	MET	O-C-N	-7.61	113.47	122.15
1	ap	118	MET	CA-C-N	7.61	131.10	120.29
1	ap	118	MET	C-N-CA	7.61	131.10	120.29
1	aT	4	GLN	N-CA-C	7.61	121.53	110.42
1	aU	11	VAL	N-CA-CB	7.61	120.12	110.99
1	aV	128	GLU	O-C-N	-7.61	114.23	122.07
1	aW	59	VAL	N-CA-CB	7.61	119.45	110.55
1	bY	32	PHE	CA-CB-CG	-7.61	106.19	113.80
1	1j	63	GLN	N-CA-C	7.61	120.65	111.82
1	1l	54	THR	CA-C-N	7.61	131.24	120.28
1	1l	54	THR	C-N-CA	7.61	131.24	120.28
1	e9	210	THR	O-C-N	-7.61	114.42	122.94
1	eF	128	GLU	CA-C-N	7.61	130.30	120.56
1	eF	128	GLU	C-N-CA	7.61	130.30	120.56
1	fu	130	TYR	CA-C-O	-7.61	112.83	120.82
1	n	85	PRO	CA-C-N	7.61	132.19	122.37
1	n	85	PRO	C-N-CA	7.61	132.19	122.37
1	F	165	VAL	N-CA-CB	7.61	121.99	110.58
1	1H	186	THR	O-C-N	-7.61	114.23	122.07
1	in	121	ASN	O-C-N	-7.61	111.74	121.10
1	lJ	167	ARG	CA-C-N	7.61	130.33	120.44
1	lJ	167	ARG	C-N-CA	7.61	130.33	120.44
1	3m	65	ALA	CB-CA-C	-7.61	98.16	110.79
1	46	111	LEU	N-CA-C	7.61	119.57	111.28
1	5D	1	PRO	CA-C-N	7.61	133.67	122.71
1	5D	1	PRO	C-N-CA	7.61	133.67	122.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5O	143	ARG	NE-CZ-NH2	7.61	126.05	119.20
1	7g	36	VAL	N-CA-C	7.61	118.38	110.62
1	8w	181	VAL	N-CA-CB	7.61	119.45	110.55
1	8E	47	ALA	N-CA-CB	-7.61	98.78	109.97
1	8E	137	GLY	CA-C-O	7.61	128.23	120.09
1	aK	214	MET	N-CA-C	7.61	119.65	111.36
1	cc	16	SER	CA-C-N	7.61	128.00	119.32
1	cc	16	SER	C-N-CA	7.61	128.00	119.32
1	cN	132	ARG	CA-C-N	7.61	130.33	120.44
1	cN	132	ARG	C-N-CA	7.61	130.33	120.44
1	K	125	PRO	CA-C-N	7.61	130.15	120.56
1	K	125	PRO	C-N-CA	7.61	130.15	120.56
1	gl	230	VAL	N-CA-CB	7.61	119.01	110.72
1	gZ	91	ILE	CA-C-O	7.61	128.69	120.47
1	hD	109	SER	N-CA-CB	7.61	121.12	110.17
1	i1	130	TYR	N-CA-C	7.61	119.21	111.07
1	ic	139	ASN	O-C-N	-7.61	112.91	122.27
1	1X	88	ALA	CA-C-O	7.61	129.25	120.96
1	1Y	217	ALA	N-CA-C	7.61	121.54	110.28
1	kr	29	GLU	N-CA-C	7.61	119.65	111.36
1	lN	136	LEU	O-C-N	-7.61	114.06	122.12
1	2P	133	TRP	CA-C-O	7.61	128.61	120.55
1	3c	27	VAL	CA-C-O	7.61	128.69	120.47
1	3g	105	ALA	N-CA-C	-7.61	103.97	113.18
1	3D	137	GLY	CA-C-N	7.61	130.33	120.44
1	3D	137	GLY	C-N-CA	7.61	130.33	120.44
1	3K	51	ASP	CA-CB-CG	-7.61	104.99	112.60
1	4Y	64	ALA	N-CA-C	7.61	119.21	111.07
1	52	179	GLN	N-CA-C	7.61	119.57	111.28
1	5G	33	SER	CA-C-N	7.61	127.32	119.56
1	5G	33	SER	C-N-CA	7.61	127.32	119.56
1	7n	87	HIS	CA-CB-CG	7.61	121.41	113.80
1	9j	71	GLU	CA-C-N	7.61	130.33	120.44
1	9j	71	GLU	C-N-CA	7.61	130.33	120.44
1	Z	161	PHE	CA-CB-CG	7.61	121.41	113.80
1	ba	101	GLY	CA-C-N	7.61	130.33	120.44
1	ba	101	GLY	C-N-CA	7.61	130.33	120.44
1	bv	105	ALA	O-C-N	-7.61	113.21	122.34
1	d8	154	ARG	NE-CZ-NH1	7.61	129.11	121.50
1	1k	162	ARG	NE-CZ-NH1	7.61	129.11	121.50
1	dR	226	HIS	CE1-NE2-CD2	-7.61	101.39	109.00
1	ea	224	PRO	CA-C-N	7.61	133.07	121.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ea	224	PRO	C-N-CA	7.61	133.07	121.51
1	1s	126	VAL	CA-C-N	7.61	128.42	119.98
1	1s	126	VAL	C-N-CA	7.61	128.42	119.98
1	fm	82	ARG	CA-C-N	7.61	131.09	120.29
1	fm	82	ARG	C-N-CA	7.61	131.09	120.29
1	1z	36	VAL	N-CA-C	7.61	120.60	111.09
1	O	182	LYS	CA-C-N	7.61	130.47	120.28
1	O	182	LYS	C-N-CA	7.61	130.47	120.28
1	1E	141	ILE	CA-C-N	7.61	130.14	120.56
1	1E	141	ILE	C-N-CA	7.61	130.14	120.56
1	gM	9	GLN	OE1-CD-NE2	-7.61	114.99	122.60
1	hb	126	VAL	CA-C-O	-7.61	113.04	120.95
1	i7	60	GLY	CA-C-N	7.61	130.83	122.16
1	i7	60	GLY	C-N-CA	7.61	130.83	122.16
1	iK	173	ARG	NE-CZ-NH2	-7.61	112.36	119.20
1	iP	107	THR	N-CA-C	-7.61	102.33	111.69
1	ki	50	GLN	N-CA-C	7.61	119.21	111.07
1	23	70	LYS	N-CA-C	7.61	120.24	111.11
1	2R	143	ARG	NE-CZ-NH1	7.61	129.11	121.50
1	3u	5	ASN	CA-CB-CG	7.61	120.21	112.60
1	4m	1	PRO	CA-C-N	7.61	132.16	121.66
1	4m	1	PRO	C-N-CA	7.61	132.16	121.66
1	5v	100	ARG	NE-CZ-NH1	7.61	129.11	121.50
1	6X	10	MET	N-CA-C	7.61	121.43	110.10
1	7u	189	LEU	N-CA-C	7.61	120.46	111.71
1	83	163	ASP	N-CA-CB	-7.61	98.94	110.12
1	89	37	ILE	N-CA-CB	7.61	116.38	110.45
1	8v	56	LEU	O-C-N	-7.61	114.06	122.12
1	8Y	178	SER	N-CA-C	7.61	120.57	110.53
1	9m	113	GLU	O-C-N	-7.61	114.24	122.07
1	9M	27	VAL	O-C-N	-7.61	114.00	121.83
1	b2	25	LYS	N-CA-C	7.61	120.64	111.82
1	c7	84	HIS	O-C-N	-7.61	115.62	121.55
1	cu	56	LEU	N-CA-C	7.61	119.57	111.28
1	cN	54	THR	N-CA-CB	7.61	121.02	109.91
1	cR	154	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	1q	47	ALA	N-CA-C	7.61	121.26	110.23
1	eL	117	TRP	CB-CG-CD2	7.61	137.45	126.80
1	f4	85	PRO	CA-C-N	7.61	130.69	120.50
1	f4	85	PRO	C-N-CA	7.61	130.69	120.50
1	Q	188	THR	N-CA-CB	7.61	123.34	110.49
1	W	24	VAL	CA-C-O	-7.61	113.04	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1M	142	VAL	O-C-N	-7.60	114.46	121.91
1	ja	133	TRP	CA-C-N	7.60	130.88	120.46
1	ja	133	TRP	C-N-CA	7.60	130.88	120.46
1	je	49	PRO	CB-CA-C	7.60	124.11	111.56
1	jW	117	TRP	CA-C-O	7.60	128.61	120.55
1	2F	27	VAL	O-C-N	-7.60	114.19	121.87
1	3W	138	LEU	CA-C-N	7.60	130.47	120.28
1	3W	138	LEU	C-N-CA	7.60	130.47	120.28
1	5j	187	GLU	CA-C-O	7.60	128.61	120.55
1	90	89	GLY	CA-C-N	7.60	128.63	120.11
1	90	89	GLY	C-N-CA	7.60	128.63	120.11
1	a5	156	GLY	O-C-N	-7.60	114.17	121.77
1	aL	113	GLU	CA-C-N	7.60	130.69	120.65
1	aL	113	GLU	C-N-CA	7.60	130.69	120.65
1	b7	158	LYS	CA-C-O	7.60	125.08	119.68
1	cp	130	TYR	CA-C-N	7.60	130.33	120.44
1	cp	130	TYR	C-N-CA	7.60	130.33	120.44
1	dx	176	GLN	N-CA-C	7.60	121.73	111.24
1	e3	100	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	P	191	VAL	N-CA-C	7.60	118.38	110.62
1	hl	102	SER	N-CA-C	7.60	120.45	111.71
1	hl	163	ASP	CA-CB-CG	7.60	120.20	112.60
1	hH	82	ARG	N-CA-C	7.60	119.57	111.28
1	ir	48	THR	CA-C-N	7.60	129.34	119.84
1	ir	48	THR	C-N-CA	7.60	129.34	119.84
1	1X	120	HIS	CA-C-O	-7.60	113.00	121.89
1	jN	173	ARG	NE-CZ-NH2	-7.60	112.36	119.20
1	kE	112	GLN	N-CA-C	7.60	120.23	111.11
1	lh	80	TRP	CA-C-O	-7.60	112.84	120.82
1	27	97	ARG	NH1-CZ-NH2	-7.60	109.42	119.30
1	lA	186	THR	N-CA-CB	7.60	121.03	110.01
1	2b	75	GLU	CA-C-N	7.60	130.47	120.28
1	2b	75	GLU	C-N-CA	7.60	130.47	120.28
1	2c	9	GLN	CA-C-N	7.60	130.47	120.28
1	2c	9	GLN	C-N-CA	7.60	130.47	120.28
1	2A	63	GLN	N-CA-C	7.60	119.57	111.28
1	2E	76	GLU	CA-C-O	7.60	129.91	121.02
1	33	31	ALA	N-CA-CB	-7.60	97.64	110.49
1	3g	49	PRO	CA-C-N	7.60	130.80	120.54
1	3g	49	PRO	C-N-CA	7.60	130.80	120.54
1	3M	54	THR	N-CA-CB	7.60	121.30	110.12
1	4Y	34	PRO	CA-C-N	7.60	131.48	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Y	34	PRO	C-N-CA	7.60	131.48	120.38
1	5d	183	ASN	CA-CB-CG	-7.60	105.00	112.60
1	61	152	ASP	N-CA-C	7.60	119.20	111.07
1	6p	146	SER	CA-C-N	7.60	129.34	119.84
1	6p	146	SER	C-N-CA	7.60	129.34	119.84
1	6s	208	ALA	CB-CA-C	7.60	122.79	110.09
1	6B	214	MET	CA-C-O	7.60	128.69	120.10
1	7Y	154	ARG	O-C-N	-7.60	114.58	123.25
1	87	108	THR	N-CA-CB	7.60	122.30	110.44
1	8a	181	VAL	CA-C-N	7.60	130.32	120.44
1	8a	181	VAL	C-N-CA	7.60	130.32	120.44
1	8R	185	MET	CG-SD-CE	-7.60	84.17	100.90
1	aS	153	ILE	N-CA-CB	7.60	119.66	110.31
1	aU	99	PRO	N-CA-CB	7.60	111.23	103.25
1	cP	213	GLU	O-C-N	-7.60	114.12	122.03
1	d0	117	TRP	CB-CG-CD1	7.60	138.30	126.90
1	dS	148	THR	CA-C-N	7.60	131.67	120.87
1	dS	148	THR	C-N-CA	7.60	131.67	120.87
1	ec	85	PRO	CA-C-N	7.60	130.69	120.50
1	ec	85	PRO	C-N-CA	7.60	130.69	120.50
1	f5	56	LEU	N-CA-C	7.60	120.23	111.11
1	fc	164	TYR	N-CA-C	7.60	119.20	111.07
1	fv	111	LEU	CA-C-N	7.60	130.32	120.44
1	fv	111	LEU	C-N-CA	7.60	130.32	120.44
1	1B	72	THR	O-C-N	-7.60	114.24	122.07
1	l	114	GLN	O-C-N	-7.60	114.24	122.07
1	3	159	GLU	CA-C-N	7.60	127.64	119.89
1	3	159	GLU	C-N-CA	7.60	127.64	119.89
1	gg	90	PRO	CA-C-O	-7.60	115.69	121.31
1	gv	52	LEU	N-CA-C	7.60	119.56	111.28
1	gz	23	TRP	CB-CG-CD2	7.60	137.44	126.80
1	hk	40	PHE	CA-CB-CG	-7.60	106.20	113.80
1	id	179	GLN	CA-C-O	7.60	128.80	120.82
1	j0	124	ILE	CA-C-O	7.60	124.75	119.20
1	kO	145	TYR	CA-C-N	7.60	131.70	120.83
1	kO	145	TYR	C-N-CA	7.60	131.70	120.83
1	kX	149	SER	CA-C-N	7.60	135.65	121.97
1	kX	149	SER	C-N-CA	7.60	135.65	121.97
1	2A	132	ARG	CA-C-N	7.60	131.08	120.29
1	2A	132	ARG	C-N-CA	7.60	131.08	120.29
1	6l	81	ASP	CA-CB-CG	7.60	120.20	112.60
1	6u	197	ASP	N-CA-C	7.60	119.20	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	18	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	70	124	ILE	O-C-N	-7.60	115.53	121.46
1	7s	120	HIS	CA-CB-CG	7.60	121.40	113.80
1	8d	139	ASN	CB-CA-C	7.60	123.00	110.92
1	94	192	GLN	OE1-CD-NE2	7.60	130.20	122.60
1	9W	8	GLY	O-C-N	-7.60	114.66	123.17
1	bm	55	MET	CA-C-O	7.60	128.80	120.82
1	cM	135	ILE	O-C-N	-7.60	114.50	121.87
1	eZ	5	ASN	CA-CB-CG	-7.60	105.00	112.60
1	gG	162	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	gQ	107	THR	N-CA-C	7.60	119.20	111.07
1	gR	42	ALA	N-CA-C	7.60	119.20	111.07
1	h2	72	THR	O-C-N	-7.60	114.24	122.07
1	1H	50	GLN	O-C-N	-7.60	114.24	122.07
1	hw	173	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	hI	62	HIS	ND1-CE1-NE2	7.60	116.00	108.40
1	1Q	63	GLN	OE1-CD-NE2	7.60	130.20	122.60
1	j6	135	ILE	N-CA-C	7.60	118.37	110.62
1	jm	22	ALA	CA-C-N	7.60	130.46	120.28
1	jm	22	ALA	C-N-CA	7.60	130.46	120.28
1	jQ	106	GLY	CA-C-N	7.60	130.32	120.44
1	jQ	106	GLY	C-N-CA	7.60	130.32	120.44
1	ki	66	MET	N-CA-C	7.60	119.56	111.28
1	ko	22	ALA	N-CA-C	7.60	119.56	111.28
1	lf	181	VAL	O-C-N	-7.60	114.46	121.91
1	lu	206	GLY	CA-C-N	7.60	129.34	119.84
1	lu	206	GLY	C-N-CA	7.60	129.34	119.84
1	lv	62	HIS	CB-CG-CD2	-7.60	121.32	131.20
1	lF	143	ARG	O-C-N	-7.60	113.49	122.15
1	2e	206	GLY	O-C-N	-7.60	114.17	121.77
1	3e	51	ASP	CA-C-N	7.60	130.32	120.44
1	3e	51	ASP	C-N-CA	7.60	130.32	120.44
1	3x	54	THR	CA-C-O	-7.60	112.84	120.82
1	3O	6	LEU	N-CA-C	7.60	119.20	111.07
1	44	139	ASN	O-C-N	7.60	130.18	122.12
1	4c	159	GLU	N-CA-C	7.60	119.29	109.64
1	57	74	ASN	CA-CB-CG	7.60	120.20	112.60
1	5F	180	GLU	N-CA-C	7.60	119.56	111.28
1	5I	173	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	5Z	184	TRP	N-CA-C	7.60	119.20	111.07
1	6b	114	GLN	N-CA-CB	7.60	121.29	110.12
1	7d	154	ARG	NE-CZ-NH1	7.60	129.10	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7V	50	GLN	OE1-CD-NE2	-7.60	115.00	122.60
1	91	100	ARG	NE-CZ-NH1	-7.60	113.90	121.50
1	9o	69	LEU	O-C-N	-7.60	113.49	122.15
1	9M	39	MET	CA-C-N	7.60	130.32	120.44
1	9M	39	MET	C-N-CA	7.60	130.32	120.44
1	ag	100	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	c9	178	SER	CA-C-N	7.60	131.35	120.79
1	c9	178	SER	C-N-CA	7.60	131.35	120.79
1	cy	106	GLY	CA-C-N	7.60	130.68	120.65
1	cy	106	GLY	C-N-CA	7.60	130.68	120.65
1	cz	95	GLN	CA-C-O	-7.60	111.95	120.54
1	cF	45	GLU	O-C-N	-7.60	114.06	122.12
1	f5	223	GLY	O-C-N	-7.60	114.17	121.77
1	fL	84	HIS	O-C-N	-7.60	112.77	120.83
1	H	12	HIS	CA-CB-CG	7.60	121.40	113.80
1	gG	101	GLY	N-CA-C	7.60	122.10	112.83
1	hx	131	LYS	N-CA-C	7.60	119.56	111.28
1	hU	178	SER	CA-C-N	7.60	130.46	120.28
1	hU	178	SER	C-N-CA	7.60	130.46	120.28
1	ij	100	ARG	N-CA-C	-7.60	99.01	109.95
1	iN	116	GLY	O-C-N	-7.60	114.89	122.18
1	j7	173	ARG	NE-CZ-NH1	7.60	129.10	121.50
1	j8	57	ASN	CA-CB-CG	-7.60	105.00	112.60
1	je	115	ILE	O-C-N	-7.60	114.00	121.83
1	jt	100	ARG	NE-CZ-NH2	-7.60	112.36	119.20
1	kc	174	ALA	CA-C-O	7.60	128.60	120.55
1	2L	48	THR	CA-C-O	-7.60	112.80	120.63
1	2Q	110	THR	CA-C-N	7.60	136.05	121.54
1	2Q	110	THR	C-N-CA	7.60	136.05	121.54
1	30	21	ASN	OD1-CG-ND2	-7.60	115.00	122.60
1	3E	193	ASN	OD1-CG-ND2	-7.60	115.00	122.60
1	4H	48	THR	O-C-N	-7.60	113.77	120.99
1	4X	64	ALA	CA-C-N	7.60	130.32	120.44
1	4X	64	ALA	C-N-CA	7.60	130.32	120.44
1	5n	31	ALA	CB-CA-C	-7.60	106.75	115.79
1	5y	82	ARG	N-CA-C	7.60	119.56	111.28
1	5C	22	ALA	CA-C-N	7.60	130.32	120.44
1	5C	22	ALA	C-N-CA	7.60	130.32	120.44
1	61	145	TYR	CA-C-N	7.60	130.98	120.65
1	61	145	TYR	C-N-CA	7.60	130.98	120.65
1	68	126	VAL	CA-C-N	7.60	128.41	119.98
1	68	126	VAL	C-N-CA	7.60	128.41	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Q	167	ARG	CA-C-N	7.60	130.32	120.44
1	6Q	167	ARG	C-N-CA	7.60	130.32	120.44
1	8c	154	ARG	NE-CZ-NH2	-7.60	112.36	119.20
1	8f	57	ASN	CA-CB-CG	-7.60	105.00	112.60
1	9p	148	THR	O-C-N	-7.60	113.47	122.81
1	9N	90	PRO	N-CA-C	7.60	123.64	111.26
1	b0	76	GLU	N-CA-C	7.60	119.64	111.36
1	c4	143	ARG	NE-CZ-NH2	-7.60	112.36	119.20
1	cb	82	ARG	N-CA-C	7.60	120.52	111.33
1	cH	62	HIS	ND1-CG-CD2	7.60	113.70	106.10
1	cO	118	MET	N-CA-C	7.60	119.20	111.07
1	1j	66	MET	CA-C-N	7.60	130.32	120.44
1	1j	66	MET	C-N-CA	7.60	130.32	120.44
1	ek	87	HIS	CA-C-N	7.60	130.46	120.28
1	ek	87	HIS	C-N-CA	7.60	130.46	120.28
1	eL	50	GLN	N-CA-C	7.60	119.56	111.28
1	fX	168	PHE	CA-C-N	7.60	130.46	120.28
1	fX	168	PHE	C-N-CA	7.60	130.46	120.28
1	P	187	GLU	N-CA-C	7.60	119.25	110.97
1	ib	82	ARG	N-CA-C	7.60	119.56	111.28
1	j4	83	LEU	N-CA-C	7.60	119.64	111.36
1	jr	156	GLY	CA-C-O	-7.60	114.56	122.38
1	kt	119	THR	CA-C-O	7.60	128.24	119.35
1	l5	36	VAL	N-CA-C	7.60	118.37	110.62
1	lz	82	ARG	NH1-CZ-NH2	-7.60	109.42	119.30
1	53	47	ALA	N-CA-C	7.60	121.24	110.23
1	5k	24	VAL	N-CA-CB	7.60	118.94	110.51
1	6e	34	PRO	CA-C-N	7.60	130.46	120.28
1	6e	34	PRO	C-N-CA	7.60	130.46	120.28
1	6U	129	ILE	O-C-N	7.60	129.35	121.91
1	8X	197	ASP	N-CA-C	7.60	119.20	111.07
1	9g	205	LEU	CA-C-O	7.60	128.60	120.55
1	9l	164	TYR	CA-C-O	-7.60	112.43	120.63
1	9N	189	LEU	N-CA-C	7.60	120.63	111.82
1	10	27	VAL	N-CA-CB	7.60	119.44	110.55
1	al	13	GLN	OE1-CD-NE2	-7.60	115.00	122.60
1	an	156	GLY	CA-C-N	7.60	127.24	119.19
1	an	156	GLY	C-N-CA	7.60	127.24	119.19
1	b0	226	HIS	O-C-N	-7.60	114.38	123.27
1	dn	32	PHE	CA-CB-CG	7.60	121.40	113.80
1	eI	12	HIS	CA-CB-CG	-7.60	106.20	113.80
1	fE	113	GLU	CA-C-N	7.60	130.46	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fE	113	GLU	C-N-CA	7.60	130.46	120.28
1	q	25	LYS	CA-C-N	7.60	130.40	120.60
1	q	25	LYS	C-N-CA	7.60	130.40	120.60
1	C	87	HIS	CE1-NE2-CD2	-7.60	101.40	109.00
1	gl	36	VAL	N-CA-C	7.59	119.28	110.62
1	hC	195	ASN	CA-C-N	7.59	127.64	119.28
1	hC	195	ASN	C-N-CA	7.59	127.64	119.28
1	hZ	128	GLU	N-CA-CB	7.59	121.25	109.94
1	kM	164	TYR	N-CA-CB	-7.59	98.92	110.16
1	la	163	ASP	N-CA-C	7.59	119.56	111.28
1	lh	158	LYS	N-CA-C	-7.59	103.60	113.17
1	lI	195	ASN	CA-C-N	7.59	129.33	119.84
1	lI	195	ASN	C-N-CA	7.59	129.33	119.84
1	39	27	VAL	N-CA-C	7.59	119.28	111.00
1	4C	173	ARG	N-CA-C	7.59	119.56	111.28
1	5a	36	VAL	CA-C-N	7.59	125.02	120.24
1	5a	36	VAL	C-N-CA	7.59	125.02	120.24
1	5t	209	ALA	CA-C-N	7.59	132.86	120.94
1	5t	209	ALA	C-N-CA	7.59	132.86	120.94
1	5D	9	GLN	CB-CA-C	7.59	122.36	109.53
1	5Q	193	ASN	CA-C-N	7.59	131.65	120.87
1	5Q	193	ASN	C-N-CA	7.59	131.65	120.87
1	6o	55	MET	CA-C-N	7.59	130.46	120.28
1	6o	55	MET	C-N-CA	7.59	130.46	120.28
1	6G	213	GLU	N-CA-C	7.59	119.19	111.07
1	7j	98	GLU	O-C-N	-7.59	114.12	121.18
1	7O	193	ASN	CA-CB-CG	-7.59	105.00	112.60
1	7V	92	GLU	N-CA-C	7.59	120.39	109.84
1	8i	83	LEU	CA-C-N	7.59	131.20	122.85
1	8i	83	LEU	C-N-CA	7.59	131.20	122.85
1	97	37	ILE	CA-C-O	-7.59	113.60	118.69
1	a1	84	HIS	ND1-CE1-NE2	7.59	116.00	108.40
1	ab	19	THR	N-CA-C	7.59	119.20	111.07
1	au	140	LYS	CA-C-N	7.59	130.86	120.46
1	au	140	LYS	C-N-CA	7.59	130.86	120.46
1	aV	55	MET	N-CA-C	7.59	120.22	111.11
1	1e	85	PRO	CA-C-N	7.59	130.73	120.63
1	1e	85	PRO	C-N-CA	7.59	130.73	120.63
1	cO	116	GLY	CA-C-N	7.59	130.31	120.44
1	cO	116	GLY	C-N-CA	7.59	130.31	120.44
1	e3	176	GLN	OE1-CD-NE2	-7.59	115.00	122.60
1	e4	3	VAL	CA-C-O	7.59	128.71	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ee	201	ILE	N-CA-CB	7.59	119.44	110.55
1	eh	56	LEU	N-CA-C	7.59	119.20	111.07
1	eK	136	LEU	CA-C-N	7.59	128.41	119.98
1	eK	136	LEU	C-N-CA	7.59	128.41	119.98
1	eW	62	HIS	ND1-CG-CD2	7.59	113.69	106.10
1	fj	73	ILE	N-CA-C	7.59	118.33	110.36
1	c	85	PRO	CA-C-N	7.59	130.28	120.56
1	c	85	PRO	C-N-CA	7.59	130.28	120.56
1	P	71	GLU	CA-C-N	7.59	130.77	120.44
1	P	71	GLU	C-N-CA	7.59	130.77	120.44
1	1M	90	PRO	N-CA-C	7.59	123.18	111.11
1	iy	186	THR	O-C-N	-7.59	114.25	122.07
1	jn	110	THR	N-CA-CB	7.59	121.10	110.17
1	jO	183	ASN	O-C-N	-7.59	114.07	122.12
1	28	33	SER	CA-C-N	7.59	127.31	119.56
1	28	33	SER	C-N-CA	7.59	127.31	119.56
1	2V	187	GLU	CA-C-N	7.59	130.31	120.44
1	2V	187	GLU	C-N-CA	7.59	130.31	120.44
1	50	16	SER	O-C-N	-7.59	115.08	121.23
1	5K	78	ALA	CA-C-O	7.59	128.60	120.55
1	6H	47	ALA	O-C-N	-7.59	113.53	122.87
1	6R	103	ASP	CA-CB-CG	-7.59	105.01	112.60
1	7o	226	HIS	ND1-CE1-NE2	7.59	115.99	108.40
1	89	54	THR	CA-C-O	7.59	129.03	120.90
1	8j	115	ILE	CA-C-N	7.59	128.37	119.94
1	8j	115	ILE	C-N-CA	7.59	128.37	119.94
1	8E	87	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
1	9d	161	PHE	N-CA-C	7.59	119.56	111.28
1	b6	112	GLN	OE1-CD-NE2	-7.59	115.01	122.60
1	bT	87	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
1	fi	149	SER	O-C-N	-7.59	113.90	122.86
1	gn	106	GLY	CA-C-N	7.59	130.31	120.44
1	gn	106	GLY	C-N-CA	7.59	130.31	120.44
1	gT	42	ALA	N-CA-C	7.59	119.56	111.28
1	ie	82	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	ii	127	GLY	CA-C-N	7.59	130.45	120.28
1	ii	127	GLY	C-N-CA	7.59	130.45	120.28
1	ka	198	CYS	N-CA-C	7.59	119.56	111.28
1	km	128	GLU	N-CA-CB	7.59	121.28	110.12
1	lF	2	ILE	O-C-N	-7.59	114.88	122.93
1	3E	152	ASP	CA-C-O	7.59	128.23	119.35
1	3P	204	ALA	N-CA-CB	-7.59	97.66	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4r	227	LYS	CA-C-O	-7.59	112.88	120.70
1	4I	17	PRO	CA-C-N	7.59	131.07	120.29
1	4I	17	PRO	C-N-CA	7.59	131.07	120.29
1	5j	90	PRO	CA-C-N	7.59	130.90	120.35
1	5j	90	PRO	C-N-CA	7.59	130.90	120.35
1	6q	62	HIS	ND1-CG-CD2	7.59	113.69	106.10
1	83	196	PRO	N-CA-C	7.59	125.06	113.75
1	88	32	PHE	CA-CB-CG	-7.59	106.21	113.80
1	8m	74	ASN	CA-CB-CG	7.59	120.19	112.60
1	8M	131	LYS	CA-C-N	7.59	130.31	120.44
1	8M	131	LYS	C-N-CA	7.59	130.31	120.44
1	9d	62	HIS	CA-CB-CG	-7.59	106.21	113.80
1	9f	164	TYR	CA-C-N	7.59	130.39	120.60
1	9f	164	TYR	C-N-CA	7.59	130.39	120.60
1	9s	121	ASN	O-C-N	-7.59	114.53	121.66
1	9V	173	ARG	NE-CZ-NH2	-7.59	112.37	119.20
1	aC	67	GLN	N-CA-C	7.59	119.64	111.36
1	aD	129	ILE	N-CA-C	7.59	118.36	110.62
1	b1	110	THR	O-C-N	-7.59	113.80	122.68
1	c9	84	HIS	CA-CB-CG	7.59	121.39	113.80
1	cm	194	ALA	O-C-N	-7.59	113.72	122.68
1	co	146	SER	CA-C-N	7.59	129.33	119.84
1	co	146	SER	C-N-CA	7.59	129.33	119.84
1	1j	127	GLY	CA-C-N	7.59	130.45	120.28
1	1j	127	GLY	C-N-CA	7.59	130.45	120.28
1	dx	1	PRO	CA-C-N	7.59	132.16	122.37
1	dx	1	PRO	C-N-CA	7.59	132.16	122.37
1	e0	130	TYR	O-C-N	-7.59	113.50	122.15
1	1o	38	PRO	CA-C-N	7.59	130.31	120.44
1	1o	38	PRO	C-N-CA	7.59	130.31	120.44
1	e4	199	LYS	N-CA-C	7.59	120.52	111.33
1	eB	87	HIS	CA-CB-CG	7.59	121.39	113.80
1	gf	32	PHE	CA-CB-CG	-7.59	106.21	113.80
1	hj	203	LYS	N-CA-C	7.59	119.55	111.28
1	ho	201	ILE	N-CA-C	7.59	117.67	110.53
1	hE	34	PRO	CA-C-N	7.59	131.21	120.28
1	hE	34	PRO	C-N-CA	7.59	131.21	120.28
1	ij	66	MET	N-CA-C	7.59	119.55	111.28
1	iP	51	ASP	CA-C-N	7.59	130.31	120.44
1	iP	51	ASP	C-N-CA	7.59	130.31	120.44
1	j8	113	GLU	O-C-N	-7.59	113.89	122.09
1	jk	139	ASN	CA-CB-CG	7.59	120.19	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jI	71	GLU	CA-C-O	7.59	128.59	120.55
1	jX	101	GLY	CA-C-O	7.59	128.57	120.75
1	k2	63	GLN	N-CA-C	7.59	121.64	112.38
1	kV	114	GLN	CA-C-N	7.59	130.12	120.56
1	kV	114	GLN	C-N-CA	7.59	130.12	120.56
1	lh	162	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	lo	159	GLU	CA-C-N	7.59	127.63	119.89
1	lo	159	GLU	C-N-CA	7.59	127.63	119.89
1	2e	149	SER	N-CA-C	-7.59	96.85	109.07
1	4g	200	THR	CB-CA-C	-7.59	98.19	110.79
1	5Q	7	GLN	CB-CG-CD	7.59	125.50	112.60
1	5R	111	LEU	N-CA-C	7.59	119.55	111.28
1	6u	63	GLN	N-CA-C	7.59	119.63	111.36
1	6x	160	PRO	N-CA-CB	7.59	110.02	103.19
1	6H	218	CYS	CA-C-N	7.59	131.65	120.87
1	6H	218	CYS	C-N-CA	7.59	131.65	120.87
1	6N	34	PRO	CA-C-N	7.59	131.21	120.28
1	6N	34	PRO	C-N-CA	7.59	131.21	120.28
1	7d	109	SER	CA-C-O	7.59	130.24	121.28
1	7Y	178	SER	N-CA-C	7.59	120.67	110.35
1	82	11	VAL	O-C-N	-7.59	115.21	123.18
1	90	10	MET	CA-C-O	7.59	127.40	119.05
1	Y	139	ASN	CA-C-O	-7.59	112.43	120.63
1	aq	25	LYS	N-CA-C	7.59	119.55	111.28
1	c4	92	GLU	N-CA-C	7.59	120.39	109.84
1	e5	37	ILE	N-CA-CB	-7.59	104.53	110.45
1	ed	199	LYS	CA-C-O	-7.59	112.85	120.82
1	fw	98	GLU	CA-C-O	-7.59	113.00	119.76
1	z	111	LEU	CA-C-O	7.59	128.83	120.63
1	B	12	HIS	CA-CB-CG	7.59	121.39	113.80
1	C	20	LEU	CA-C-N	7.59	131.85	120.31
1	C	20	LEU	C-N-CA	7.59	131.85	120.31
1	U	87	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
1	gc	99	PRO	O-C-N	-7.59	114.28	123.01
1	gU	115	ILE	CA-C-N	7.59	128.40	119.98
1	gU	115	ILE	C-N-CA	7.59	128.40	119.98
1	ih	132	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	iI	132	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	kZ	226	HIS	O-C-N	-7.59	112.50	122.59
1	3g	2	ILE	O-C-N	-7.59	114.39	122.81
1	3D	57	ASN	OD1-CG-ND2	-7.59	115.01	122.60
1	43	173	ARG	N-CA-C	7.59	119.63	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Y	103	ASP	CA-C-O	-7.59	112.51	120.55
1	6j	151	LEU	N-CA-C	-7.59	103.61	113.17
1	6s	18	ARG	O-C-N	-7.59	113.50	122.15
1	72	42	ALA	CA-C-N	7.59	130.76	120.44
1	72	42	ALA	C-N-CA	7.59	130.76	120.44
1	7Z	161	PHE	CA-C-O	-7.59	112.89	120.70
1	8L	50	GLN	CA-C-N	7.59	130.30	120.44
1	8L	50	GLN	C-N-CA	7.59	130.30	120.44
1	cn	32	PHE	CA-CB-CG	-7.59	106.21	113.80
1	eC	172	LEU	CA-C-N	7.59	131.06	120.29
1	eC	172	LEU	C-N-CA	7.59	131.06	120.29
1	fK	39	MET	N-CA-C	7.59	119.55	111.28
1	s	185	MET	N-CA-C	7.59	119.55	111.28
1	gT	100	ARG	NE-CZ-NH2	-7.59	112.37	119.20
1	1G	221	VAL	CA-C-N	7.59	131.44	119.98
1	1G	221	VAL	C-N-CA	7.59	131.44	119.98
1	hZ	170	LYS	N-CA-C	7.59	119.55	111.28
1	iR	154	ARG	NE-CZ-NH1	7.59	129.09	121.50
1	jl	132	ARG	O-C-N	-7.59	114.08	122.12
1	kK	113	GLU	N-CA-CB	-7.59	98.90	110.13
1	lz	92	GLU	N-CA-C	7.59	118.32	109.60
1	2w	176	GLN	OE1-CD-NE2	-7.59	115.01	122.60
1	2C	50	GLN	OE1-CD-NE2	-7.59	115.01	122.60
1	30	191	VAL	O-C-N	-7.59	114.48	121.91
1	3o	161	PHE	N-CA-C	7.59	120.21	111.11
1	3I	183	ASN	CA-CB-CG	-7.59	105.01	112.60
1	3J	55	MET	CA-C-O	-7.59	112.85	120.82
1	4H	76	GLU	CA-C-N	7.59	130.30	120.44
1	4H	76	GLU	C-N-CA	7.59	130.30	120.44
1	51	181	VAL	CA-C-N	7.59	130.45	120.28
1	51	181	VAL	C-N-CA	7.59	130.45	120.28
1	59	100	ARG	NE-CZ-NH2	-7.59	112.37	119.20
1	62	226	HIS	CA-CB-CG	7.59	121.39	113.80
1	68	104	ILE	CA-C-O	-7.59	112.81	120.85
1	6J	149	SER	O-C-N	-7.59	114.39	122.96
1	70	87	HIS	CA-C-N	7.59	133.43	122.35
1	70	87	HIS	C-N-CA	7.59	133.43	122.35
1	85	195	ASN	CA-CB-CG	7.59	120.19	112.60
1	8d	192	GLN	N-CA-C	7.59	119.55	111.28
1	8x	11	VAL	N-CA-C	7.59	119.17	108.93
1	8x	12	HIS	CE1-NE2-CD2	-7.59	101.41	109.00
1	8G	26	VAL	O-C-N	-7.59	114.47	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8M	102	SER	O-C-N	-7.59	114.08	122.12
1	8T	205	LEU	N-CA-C	7.59	119.19	111.07
1	8Y	12	HIS	CA-CB-CG	-7.59	106.21	113.80
1	90	144	MET	N-CA-C	7.59	119.55	111.28
1	9B	82	ARG	CD-NE-CZ	-7.59	113.78	124.40
1	ak	70	LYS	N-CA-C	7.59	119.55	111.28
1	ar	135	ILE	N-CA-C	7.59	118.36	110.62
1	aB	12	HIS	ND1-CE1-NE2	7.59	115.99	108.40
1	aE	142	VAL	N-CA-C	7.59	117.70	110.42
1	cn	154	ARG	CD-NE-CZ	7.59	135.02	124.40
1	dc	55	MET	O-C-N	-7.59	114.08	122.12
1	dh	4	GLN	OE1-CD-NE2	-7.59	115.01	122.60
1	eR	44	SER	CA-C-O	7.59	128.06	120.32
1	fn	67	GLN	N-CA-C	7.59	119.55	111.28
1	fC	28	GLU	N-CA-CB	-7.59	99.07	110.07
1	fN	143	ARG	NE-CZ-NH2	7.59	126.03	119.20
1	e	54	THR	N-CA-C	7.59	119.55	111.28
1	1O	225	GLY	CA-C-N	7.58	131.20	120.28
1	1O	225	GLY	C-N-CA	7.58	131.20	120.28
1	iI	123	PRO	N-CA-CB	7.58	109.92	103.25
1	jC	182	LYS	N-CA-CB	-7.58	97.80	110.39
1	2k	214	MET	N-CA-CB	7.58	121.01	110.01
1	36	37	ILE	N-CA-CB	7.58	116.37	110.45
1	3D	80	TRP	CA-C-N	7.58	130.78	120.54
1	3D	80	TRP	C-N-CA	7.58	130.78	120.54
1	3S	161	PHE	CA-C-N	7.58	130.30	120.44
1	3S	161	PHE	C-N-CA	7.58	130.30	120.44
1	3Y	145	TYR	N-CA-C	7.58	119.55	111.28
1	4v	14	ALA	N-CA-C	7.58	121.40	110.10
1	70	195	ASN	CA-C-N	7.58	129.32	119.84
1	70	195	ASN	C-N-CA	7.58	129.32	119.84
1	aH	68	MET	CA-C-N	7.58	130.30	120.44
1	aH	68	MET	C-N-CA	7.58	130.30	120.44
1	aK	190	LEU	CB-CA-C	7.58	122.79	110.88
1	dI	214	MET	N-CA-C	7.58	119.55	111.28
1	fI	129	ILE	N-CA-C	7.58	118.32	110.36
1	h8	133	TRP	CB-CG-CD1	7.58	138.28	126.90
1	1Y	122	PRO	CA-C-N	7.58	128.04	119.93
1	1Y	122	PRO	C-N-CA	7.58	128.04	119.93
1	kh	191	VAL	CA-C-O	7.58	129.21	121.17
1	lR	62	HIS	ND1-CG-CD2	7.58	113.68	106.10
1	2H	202	LEU	O-C-N	-7.58	114.08	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2V	125	PRO	N-CA-CB	-7.58	96.59	102.28
1	3b	112	GLN	N-CA-C	7.58	119.55	111.28
1	5S	159	GLU	CA-C-N	7.58	127.62	119.89
1	5S	159	GLU	C-N-CA	7.58	127.62	119.89
1	5W	74	ASN	N-CA-C	7.58	119.55	111.28
1	68	84	HIS	CA-C-N	7.58	127.64	119.90
1	68	84	HIS	C-N-CA	7.58	127.64	119.90
1	6r	208	ALA	CA-C-O	7.58	128.57	120.46
1	7v	110	THR	N-CA-CB	7.58	121.19	110.04
1	7z	193	ASN	CA-CB-CG	-7.58	105.02	112.60
1	7V	54	THR	CA-C-N	7.58	130.30	120.44
1	7V	54	THR	C-N-CA	7.58	130.30	120.44
1	81	32	PHE	CA-CB-CG	-7.58	106.22	113.80
1	9l	87	HIS	N-CA-C	7.58	126.95	110.80
1	bo	12	HIS	CE1-NE2-CD2	-7.58	101.42	109.00
1	bV	36	VAL	CA-C-N	7.58	126.40	120.33
1	bV	36	VAL	C-N-CA	7.58	126.40	120.33
1	c5	87	HIS	ND1-CE1-NE2	7.58	115.98	108.40
1	ca	182	LYS	N-CA-CB	7.58	121.27	110.12
1	ck	181	VAL	N-CA-C	7.58	118.36	110.62
1	d5	55	MET	CA-C-O	7.58	128.59	120.55
1	dc	122	PRO	CA-C-N	7.58	127.62	119.89
1	dc	122	PRO	C-N-CA	7.58	127.62	119.89
1	dr	184	TRP	N-CA-C	7.58	119.63	111.36
1	ds	206	GLY	CA-C-N	7.58	127.23	119.19
1	ds	206	GLY	C-N-CA	7.58	127.23	119.19
1	eM	131	LYS	O-C-N	-7.58	114.08	122.12
1	eS	120	HIS	CE1-NE2-CD2	-7.58	101.42	109.00
1	gh	135	ILE	CA-C-N	7.58	130.29	120.44
1	gh	135	ILE	C-N-CA	7.58	130.29	120.44
1	gV	33	SER	O-C-N	-7.58	114.81	121.71
1	hh	163	ASP	CA-CB-CG	7.58	120.18	112.60
1	hj	23	TRP	N-CA-C	7.58	119.18	111.07
1	hj	198	CYS	CA-C-N	7.58	130.78	120.54
1	hj	198	CYS	C-N-CA	7.58	130.78	120.54
1	ji	25	LYS	N-CA-C	7.58	119.55	111.28
1	jY	22	ALA	N-CA-C	-7.58	102.68	112.23
1	ka	3	VAL	O-C-N	-7.58	114.99	123.10
1	kD	156	GLY	N-CA-C	7.58	121.42	112.10
1	2U	167	ARG	CA-C-O	7.58	128.78	120.82
1	3d	144	MET	O-C-N	7.58	130.16	122.12
1	3E	135	ILE	O-C-N	-7.58	114.48	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	60	GLY	CA-C-N	7.58	129.18	122.43
1	4k	60	GLY	C-N-CA	7.58	129.18	122.43
1	4Y	218	CYS	O-C-N	-7.58	113.48	122.58
1	5p	97	ARG	N-CA-CB	-7.58	98.90	110.42
1	5R	200	THR	N-CA-C	7.58	119.54	111.28
1	66	26	VAL	CA-C-N	7.58	132.73	120.30
1	66	26	VAL	C-N-CA	7.58	132.73	120.30
1	6Y	54	THR	N-CA-C	7.58	119.54	111.28
1	7v	133	TRP	N-CA-C	7.58	119.54	111.28
1	7w	103	ASP	CA-CB-CG	-7.58	105.02	112.60
1	7y	224	PRO	CA-C-N	7.58	129.85	120.22
1	7y	224	PRO	C-N-CA	7.58	129.85	120.22
1	7T	154	ARG	CD-NE-CZ	7.58	135.01	124.40
1	8i	80	TRP	N-CA-C	7.58	119.54	111.28
1	93	19	THR	CA-C-N	7.58	130.44	120.28
1	93	19	THR	C-N-CA	7.58	130.44	120.28
1	9Y	143	ARG	CA-C-N	7.58	130.44	120.28
1	9Y	143	ARG	C-N-CA	7.58	130.44	120.28
1	a8	177	ALA	CA-C-N	7.58	132.20	120.75
1	a8	177	ALA	C-N-CA	7.58	132.20	120.75
1	aY	211	LEU	N-CA-C	7.58	121.45	111.75
1	c3	123	PRO	CA-C-N	7.58	127.76	122.60
1	c3	123	PRO	C-N-CA	7.58	127.76	122.60
1	cP	68	MET	O-C-N	-7.58	114.20	122.09
1	cR	184	TRP	N-CA-C	7.58	119.62	111.36
1	cS	21	ASN	O-C-N	-7.58	114.08	122.12
1	d5	154	ARG	CD-NE-CZ	7.58	135.01	124.40
1	ez	206	GLY	CA-C-N	7.58	127.62	119.28
1	ez	206	GLY	C-N-CA	7.58	127.62	119.28
1	eV	22	ALA	N-CA-C	7.58	119.62	111.36
1	f8	144	MET	CA-C-O	7.58	128.20	119.18
1	fh	124	ILE	O-C-N	-7.58	112.85	121.57
1	fh	140	LYS	CA-C-O	7.58	128.69	119.97
1	d	201	ILE	N-CA-C	7.58	118.35	110.62
1	hW	62	HIS	ND1-CG-CD2	7.58	113.68	106.10
1	if	62	HIS	CA-C-N	7.58	130.44	120.28
1	if	62	HIS	C-N-CA	7.58	130.44	120.28
1	2g	148	THR	CA-C-O	7.58	128.73	120.32
1	2w	156	GLY	CA-C-N	7.58	129.31	119.84
1	2w	156	GLY	C-N-CA	7.58	129.31	119.84
1	7k	178	SER	O-C-N	-7.58	113.49	122.81
1	8u	215	MET	CA-C-O	7.58	128.60	119.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	195	ASN	CA-CB-CG	7.58	120.18	112.60
1	Z	88	ALA	O-C-N	-7.58	112.54	122.77
1	b4	16	SER	CA-C-N	7.58	129.32	119.84
1	b4	16	SER	C-N-CA	7.58	129.32	119.84
1	dA	159	GLU	O-C-N	-7.58	114.72	121.31
1	eF	202	LEU	N-CA-C	7.58	119.18	111.07
1	eX	82	ARG	NE-CZ-NH1	7.58	129.08	121.50
1	f7	166	ASP	CA-C-N	7.58	130.44	120.28
1	f7	166	ASP	C-N-CA	7.58	130.44	120.28
1	v	196	PRO	N-CA-C	7.58	124.80	113.81
1	x	96	MET	O-C-N	-7.58	113.96	122.75
1	gq	193	ASN	CA-CB-CG	-7.58	105.02	112.60
1	gz	6	LEU	N-CA-C	7.58	121.70	111.24
1	hh	213	GLU	CA-C-N	7.58	130.44	120.28
1	hh	213	GLU	C-N-CA	7.58	130.44	120.28
1	1N	12	HIS	N-CA-C	7.58	120.66	110.35
1	1Q	111	LEU	O-C-N	-7.58	114.09	122.12
1	iQ	162	ARG	NE-CZ-NH1	7.58	129.08	121.50
1	iS	62	HIS	ND1-CE1-NE2	7.58	115.98	108.40
1	j1	81	ASP	CA-C-N	7.58	130.29	120.44
1	j1	81	ASP	C-N-CA	7.58	130.29	120.44
1	jS	40	PHE	CA-C-N	7.58	130.29	120.44
1	jS	40	PHE	C-N-CA	7.58	130.29	120.44
1	jV	211	LEU	CA-C-N	7.58	130.44	120.28
1	jV	211	LEU	C-N-CA	7.58	130.44	120.28
1	kQ	169	TYR	N-CA-C	7.58	119.54	111.28
1	l7	82	ARG	NE-CZ-NH2	-7.58	112.38	119.20
1	26	171	THR	N-CA-CB	7.58	121.26	110.12
1	29	148	THR	CA-C-O	-7.58	112.44	120.40
1	2c	89	GLY	O-C-N	-7.58	114.19	121.77
1	2k	185	MET	N-CA-C	7.58	120.20	111.11
1	2Z	173	ARG	N-CA-C	7.58	119.54	111.28
1	3c	154	ARG	CA-C-O	7.58	129.86	120.54
1	4G	115	ILE	CA-C-N	7.58	128.55	119.99
1	4G	115	ILE	C-N-CA	7.58	128.55	119.99
1	5c	27	VAL	N-CA-C	7.58	118.32	110.36
1	66	171	THR	CA-C-O	7.58	128.58	120.55
1	8j	84	HIS	CA-C-N	7.58	129.31	119.84
1	8j	84	HIS	C-N-CA	7.58	129.31	119.84
1	8I	15	ILE	O-C-N	-7.58	114.94	122.67
1	8J	56	LEU	CA-C-N	7.58	131.05	120.29
1	8J	56	LEU	C-N-CA	7.58	131.05	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	94	164	TYR	CA-C-N	7.58	131.18	120.42
1	94	164	TYR	C-N-CA	7.58	131.18	120.42
1	9y	15	ILE	CA-C-O	7.58	129.68	121.04
1	ar	122	PRO	CA-C-N	7.58	129.31	119.84
1	ar	122	PRO	C-N-CA	7.58	129.31	119.84
1	19	54	THR	CA-C-O	7.58	128.69	119.97
1	1a	40	PHE	CA-CB-CG	7.58	121.38	113.80
1	ca	63	GLN	N-CA-C	7.58	120.61	111.82
1	cD	173	ARG	NE-CZ-NH2	7.58	126.02	119.20
1	cE	33	SER	CA-C-N	7.58	127.29	119.56
1	cE	33	SER	C-N-CA	7.58	127.29	119.56
1	d3	72	THR	N-CA-C	7.58	119.33	111.14
1	da	50	GLN	N-CA-C	7.58	120.50	111.33
1	fm	126	VAL	CA-C-O	-7.58	113.07	120.95
1	T	147	PRO	CB-CA-C	7.58	123.17	112.11
1	i1	223	GLY	CA-C-N	7.58	129.31	119.84
1	i1	223	GLY	C-N-CA	7.58	129.31	119.84
1	jf	161	PHE	CA-C-N	7.58	130.43	120.28
1	jf	161	PHE	C-N-CA	7.58	130.43	120.28
1	jJ	79	GLU	CA-C-N	7.58	130.43	120.28
1	jJ	79	GLU	C-N-CA	7.58	130.43	120.28
1	21	121	ASN	CA-CB-CG	7.58	120.18	112.60
1	lD	25	LYS	N-CA-C	7.58	119.54	111.28
1	3n	215	MET	N-CA-C	7.58	119.62	111.36
1	3P	163	ASP	N-CA-C	7.58	119.62	111.36
1	4O	86	VAL	N-CA-C	7.58	119.35	109.58
1	79	114	GLN	N-CA-C	7.58	119.54	111.28
1	7B	132	ARG	CA-C-N	7.58	130.43	120.28
1	7B	132	ARG	C-N-CA	7.58	130.43	120.28
1	8r	18	ARG	O-C-N	-7.58	114.09	122.12
1	96	87	HIS	CE1-NE2-CD2	-7.58	101.42	109.00
1	c5	149	SER	CA-C-O	7.58	129.58	121.55
1	eO	159	GLU	CA-C-O	-7.58	112.22	119.80
1	fF	228	ALA	N-CA-C	7.58	120.92	110.24
1	gO	31	ALA	N-CA-C	7.58	121.44	111.75
1	gX	188	THR	N-CA-C	7.58	119.32	111.14
1	hk	72	THR	CA-C-O	7.58	128.58	120.55
1	iM	133	TRP	CB-CG-CD2	-7.58	116.19	126.80
1	j1	16	SER	CA-C-N	7.58	127.21	119.56
1	j1	16	SER	C-N-CA	7.58	127.21	119.56
1	jk	84	HIS	CA-CB-CG	7.58	121.38	113.80
1	jK	75	GLU	CA-C-N	7.58	130.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jK	75	GLU	C-N-CA	7.58	130.43	120.28
1	1Y	15	ILE	N-CA-C	7.58	119.16	108.93
1	jQ	4	GLN	CA-C-N	7.58	130.29	120.44
1	jQ	4	GLN	C-N-CA	7.58	130.29	120.44
1	jW	230	VAL	CB-CA-C	-7.58	101.52	110.91
1	kr	219	GLN	OE1-CD-NE2	-7.58	115.03	122.60
1	kO	117	TRP	O-C-N	-7.58	114.09	122.12
1	lf	33	SER	O-C-N	-7.58	114.82	121.71
1	ln	24	VAL	N-CA-CB	7.58	120.27	110.57
1	28	65	ALA	CA-C-N	7.58	130.43	120.28
1	28	65	ALA	C-N-CA	7.58	130.43	120.28
1	lu	35	GLU	CA-C-O	7.58	128.70	119.31
1	lz	154	ARG	O-C-N	-7.58	114.40	122.96
1	lQ	229	ARG	NH1-CZ-NH2	-7.58	109.45	119.30
1	3m	63	GLN	N-CA-C	7.58	119.54	111.28
1	3L	152	ASP	CA-C-N	7.58	132.77	122.01
1	3L	152	ASP	C-N-CA	7.58	132.77	122.01
1	3O	195	ASN	CA-C-O	-7.58	112.29	120.17
1	43	123	PRO	CA-C-O	-7.58	112.94	121.43
1	4b	185	MET	CA-C-N	7.58	130.77	120.54
1	4b	185	MET	C-N-CA	7.58	130.77	120.54
1	4t	97	ARG	NE-CZ-NH1	7.58	129.07	121.50
1	5L	34	PRO	CA-C-N	7.58	132.72	120.60
1	5L	34	PRO	C-N-CA	7.58	132.72	120.60
1	6R	199	LYS	CG-CD-CE	7.58	128.72	111.30
1	8t	154	ARG	CA-C-O	7.58	128.27	120.24
1	8D	131	LYS	O-C-N	-7.58	114.09	122.12
1	9B	100	ARG	N-CA-CB	7.58	122.71	110.51
1	9S	210	THR	N-CA-C	7.58	120.35	110.43
1	aN	146	SER	O-C-N	-7.58	113.92	121.27
1	aO	167	ARG	NE-CZ-NH2	-7.58	112.38	119.20
1	aS	54	THR	N-CA-C	7.58	119.32	111.14
1	1b	50	GLN	OE1-CD-NE2	-7.58	115.02	122.60
1	cO	21	ASN	OD1-CG-ND2	-7.58	115.03	122.60
1	cZ	4	GLN	OE1-CD-NE2	-7.58	115.03	122.60
1	d8	137	GLY	O-C-N	-7.58	114.84	122.19
1	dF	146	SER	CA-C-N	7.58	127.56	119.76
1	dF	146	SER	C-N-CA	7.58	127.56	119.76
1	dN	201	ILE	CA-C-N	7.58	130.43	120.28
1	dN	201	ILE	C-N-CA	7.58	130.43	120.28
1	1v	131	LYS	N-CA-C	7.58	120.50	111.33
1	fw	111	LEU	N-CA-C	7.58	119.17	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fT	205	LEU	N-CA-C	7.58	120.61	111.82
1	V	38	PRO	CB-CA-C	7.58	123.91	112.55
1	h0	166	ASP	O-C-N	-7.57	114.27	122.07
1	ho	205	LEU	CA-C-N	7.57	133.76	121.87
1	ho	205	LEU	C-N-CA	7.57	133.76	121.87
1	hy	81	ASP	O-C-N	-7.57	114.27	122.07
1	i9	93	PRO	CA-C-N	7.57	134.43	120.87
1	i9	93	PRO	C-N-CA	7.57	134.43	120.87
1	iQ	75	GLU	N-CA-C	7.57	119.53	111.28
1	jg	73	ILE	CA-C-N	7.57	130.29	120.44
1	jg	73	ILE	C-N-CA	7.57	130.29	120.44
1	jE	91	ILE	CA-C-N	7.57	130.95	120.65
1	jE	91	ILE	C-N-CA	7.57	130.95	120.65
1	jS	163	ASP	CA-CB-CG	7.57	120.17	112.60
1	kx	14	ALA	N-CA-C	7.57	121.49	110.28
1	lR	2	ILE	CA-C-N	7.57	133.51	123.06
1	lR	2	ILE	C-N-CA	7.57	133.51	123.06
1	2c	216	THR	CA-C-O	7.57	128.46	119.60
1	2X	3	VAL	O-C-N	-7.57	114.57	122.82
1	3l	19	THR	CA-C-N	7.57	130.76	120.54
1	3l	19	THR	C-N-CA	7.57	130.76	120.54
1	3v	97	ARG	NE-CZ-NH2	7.57	126.02	119.20
1	3S	22	ALA	N-CA-C	7.57	119.53	111.28
1	3T	215	MET	N-CA-C	7.57	119.53	111.28
1	4b	33	SER	N-CA-CB	7.57	120.96	110.05
1	64	119	THR	N-CA-CB	7.57	121.81	110.53
1	7r	51	ASP	CA-C-N	7.57	130.43	120.28
1	7r	51	ASP	C-N-CA	7.57	130.43	120.28
1	8S	201	ILE	CA-C-N	7.57	130.43	120.28
1	8S	201	ILE	C-N-CA	7.57	130.43	120.28
1	8Z	51	ASP	CA-CB-CG	-7.57	105.03	112.60
1	9J	21	ASN	N-CA-C	7.57	120.50	111.33
1	9W	218	CYS	CA-C-N	7.57	131.47	120.71
1	9W	218	CYS	C-N-CA	7.57	131.47	120.71
1	ap	217	ALA	O-C-N	-7.57	114.22	122.85
1	bt	120	HIS	CE1-NE2-CD2	-7.57	101.43	109.00
1	cj	69	LEU	CA-C-N	7.57	130.76	120.54
1	cj	69	LEU	C-N-CA	7.57	130.76	120.54
1	co	10	MET	CA-C-N	7.57	130.70	120.63
1	co	10	MET	C-N-CA	7.57	130.70	120.63
1	cH	24	VAL	N-CA-C	7.57	117.69	110.42
1	cV	51	ASP	CA-C-N	7.57	130.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cV	51	ASP	C-N-CA	7.57	130.28	120.44
1	dj	159	GLU	CA-C-N	7.57	129.31	119.84
1	dj	159	GLU	C-N-CA	7.57	129.31	119.84
1	dz	23	TRP	N-CA-C	7.57	119.53	111.28
1	dA	24	VAL	O-C-N	-7.57	114.49	121.91
1	fm	178	SER	O-C-N	-7.57	113.34	122.65
1	fz	118	MET	N-CA-C	7.57	119.61	111.36
1	K	211	LEU	CA-C-N	7.57	131.32	120.79
1	K	211	LEU	C-N-CA	7.57	131.32	120.79
1	9	13	GLN	OE1-CD-NE2	7.57	130.17	122.60
1	gW	141	ILE	CB-CA-C	-7.57	101.92	112.14
1	iy	178	SER	CA-C-N	7.57	130.28	120.44
1	iy	178	SER	C-N-CA	7.57	130.28	120.44
1	jV	143	ARG	NH1-CZ-NH2	-7.57	109.46	119.30
1	kk	35	GLU	N-CA-C	7.57	122.18	112.34
1	lh	51	ASP	CA-CB-CG	-7.57	105.03	112.60
1	lq	84	HIS	CE1-NE2-CD2	-7.57	101.43	109.00
1	lF	146	SER	N-CA-C	7.57	120.36	109.84
1	2j	206	GLY	O-C-N	-7.57	114.20	121.77
1	2T	171	THR	CA-C-N	7.57	130.75	120.38
1	2T	171	THR	C-N-CA	7.57	130.75	120.38
1	40	192	GLN	N-CA-C	7.57	120.49	111.33
1	5Z	36	VAL	CA-C-N	7.57	126.39	120.33
1	5Z	36	VAL	C-N-CA	7.57	126.39	120.33
1	6j	153	ILE	CA-C-O	7.57	127.23	119.20
1	7I	137	GLY	CA-C-O	-7.57	111.97	120.30
1	8b	92	GLU	O-C-N	-7.57	115.92	121.83
1	8k	113	GLU	N-CA-C	7.57	119.53	111.28
1	8T	156	GLY	CA-C-N	7.57	127.21	119.56
1	8T	156	GLY	C-N-CA	7.57	127.21	119.56
1	9m	107	THR	N-CA-C	-7.57	104.28	113.97
1	9n	179	GLN	N-CA-C	7.57	120.26	111.02
1	bf	55	MET	N-CA-C	7.57	119.53	111.28
1	gb	78	ALA	CA-C-N	7.57	130.42	120.28
1	gb	78	ALA	C-N-CA	7.57	130.42	120.28
1	gE	212	GLU	CA-C-N	7.57	130.42	120.28
1	gE	212	GLU	C-N-CA	7.57	130.42	120.28
1	gH	184	TRP	O-C-N	-7.57	114.10	122.12
1	gZ	185	MET	N-CA-C	7.57	119.17	111.07
1	h6	180	GLU	N-CA-C	7.57	119.53	111.28
1	hs	103	ASP	CA-C-N	7.57	130.10	120.56
1	hs	103	ASP	C-N-CA	7.57	130.10	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1N	124	ILE	O-C-N	-7.57	114.08	121.12
1	iY	152	ASP	CA-CB-CG	7.57	120.17	112.60
1	jg	212	GLU	N-CA-C	7.57	119.17	111.07
1	jl	18	ARG	NE-CZ-NH2	-7.57	112.39	119.20
1	kv	201	ILE	N-CA-C	7.57	118.34	110.62
1	kN	97	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	kO	7	GLN	CA-C-N	7.57	130.56	122.69
1	kO	7	GLN	C-N-CA	7.57	130.56	122.69
1	lp	191	VAL	CA-C-N	7.57	130.76	120.54
1	lp	191	VAL	C-N-CA	7.57	130.76	120.54
1	lr	126	VAL	N-CA-C	7.57	119.25	110.62
1	2w	183	ASN	OD1-CG-ND2	-7.57	115.03	122.60
1	3M	171	THR	CA-C-N	7.57	130.42	120.28
1	3M	171	THR	C-N-CA	7.57	130.42	120.28
1	5W	108	THR	N-CA-CB	7.57	121.66	110.53
1	5Z	37	ILE	O-C-N	-7.57	115.58	120.42
1	6r	174	ALA	CA-C-N	7.57	132.25	121.42
1	6r	174	ALA	C-N-CA	7.57	132.25	121.42
1	7a	187	GLU	CA-C-N	7.57	130.64	120.65
1	7a	187	GLU	C-N-CA	7.57	130.64	120.65
1	7Q	142	VAL	N-CA-C	7.57	118.31	110.36
1	7V	194	ALA	N-CA-C	7.57	120.08	110.24
1	8I	198	CYS	CA-C-N	7.57	130.28	120.44
1	8I	198	CYS	C-N-CA	7.57	130.28	120.44
1	8O	14	ALA	N-CA-CB	-7.57	98.63	110.06
1	9N	56	LEU	N-CA-CB	7.57	121.25	110.12
1	aZ	64	ALA	CA-C-N	7.57	130.28	120.44
1	aZ	64	ALA	C-N-CA	7.57	130.28	120.44
1	ba	112	GLN	CA-C-O	7.57	128.44	120.42
1	bV	87	HIS	CA-CB-CG	-7.57	106.23	113.80
1	d5	210	THR	CA-C-N	7.57	130.76	120.54
1	d5	210	THR	C-N-CA	7.57	130.76	120.54
1	dd	183	ASN	CA-C-N	7.57	130.42	120.28
1	dd	183	ASN	C-N-CA	7.57	130.42	120.28
1	dr	226	HIS	CA-CB-CG	-7.57	106.23	113.80
1	dW	84	HIS	CE1-NE2-CD2	-7.57	101.43	109.00
1	eL	174	ALA	N-CA-C	7.57	120.60	111.82
1	1t	144	MET	N-CA-C	7.57	119.53	111.28
1	f9	74	ASN	CA-C-N	7.57	130.28	120.44
1	f9	74	ASN	C-N-CA	7.57	130.28	120.44
1	f9	98	GLU	O-C-N	-7.57	113.40	121.42
1	g	92	GLU	O-C-N	-7.57	113.20	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	81	ASP	N-CA-C	7.57	119.17	111.07
1	hu	229	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	hR	100	ARG	O-C-N	-7.57	113.42	122.65
1	ia	84	HIS	CA-C-O	7.57	126.73	119.62
1	iP	220	GLY	CA-C-N	7.57	131.20	120.53
1	iP	220	GLY	C-N-CA	7.57	131.20	120.53
1	4g	69	LEU	CB-CA-C	7.57	122.92	110.81
1	5T	4	GLN	OE1-CD-NE2	-7.57	115.03	122.60
1	6I	9	GLN	CA-C-O	7.57	128.68	120.43
1	7W	66	MET	CG-SD-CE	-7.57	84.25	100.90
1	8y	87	HIS	CA-CB-CG	-7.57	106.23	113.80
1	91	214	MET	N-CA-C	7.57	119.53	111.28
1	9A	83	LEU	N-CA-C	7.57	119.61	111.36
1	Z	116	GLY	CA-C-N	7.57	131.43	120.38
1	Z	116	GLY	C-N-CA	7.57	131.43	120.38
1	az	198	CYS	CA-C-N	7.57	130.42	120.28
1	az	198	CYS	C-N-CA	7.57	130.42	120.28
1	aJ	22	ALA	N-CA-C	7.57	120.42	111.71
1	dH	16	SER	O-C-N	-7.57	112.95	121.43
1	dP	100	ARG	N-CA-CB	7.57	121.26	110.44
1	et	64	ALA	CA-C-O	7.57	128.44	120.42
1	eZ	111	LEU	N-CA-C	7.57	119.53	111.28
1	1E	165	VAL	CA-C-N	7.57	130.28	120.44
1	1E	165	VAL	C-N-CA	7.57	130.28	120.44
1	gF	12	HIS	CA-CB-CG	7.57	121.37	113.80
1	1F	24	VAL	CA-C-O	-7.57	113.15	121.17
1	gX	14	ALA	N-CA-C	7.57	120.64	110.35
1	1K	190	LEU	N-CA-CB	-7.57	98.96	110.16
1	iy	101	GLY	CA-C-N	7.57	131.18	120.28
1	iy	101	GLY	C-N-CA	7.57	131.18	120.28
1	js	145	TYR	CB-CG-CD1	7.57	132.15	120.80
1	jv	148	THR	CA-C-N	7.57	135.06	121.89
1	jv	148	THR	C-N-CA	7.57	135.06	121.89
1	jX	109	SER	O-C-N	-7.57	114.22	122.85
1	23	74	ASN	CA-C-O	7.57	128.57	120.55
1	26	81	ASP	CA-CB-CG	-7.57	105.03	112.60
1	lb	98	GLU	CA-C-N	7.57	127.56	119.76
1	lb	98	GLU	C-N-CA	7.57	127.56	119.76
1	2G	112	GLN	CA-C-N	7.57	130.42	120.28
1	2G	112	GLN	C-N-CA	7.57	130.42	120.28
1	3f	162	ARG	NE-CZ-NH2	-7.57	112.39	119.20
1	3L	36	VAL	CA-C-N	7.57	126.38	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3L	36	VAL	C-N-CA	7.57	126.38	120.33
1	3Z	70	LYS	N-CA-C	7.57	119.17	111.07
1	3Z	171	THR	CA-C-N	7.57	131.04	120.29
1	3Z	171	THR	C-N-CA	7.57	131.04	120.29
1	45	186	THR	CA-CB-CG2	7.57	123.36	110.50
1	5o	115	ILE	CA-C-N	7.57	128.54	119.99
1	5o	115	ILE	C-N-CA	7.57	128.54	119.99
1	5v	4	GLN	OE1-CD-NE2	-7.57	115.03	122.60
1	5C	152	ASP	CA-C-O	7.57	128.80	119.11
1	5M	53	ASN	CA-C-N	7.57	130.75	120.38
1	5M	53	ASN	C-N-CA	7.57	130.75	120.38
1	6R	37	ILE	CA-C-O	7.57	124.46	118.71
1	8Q	154	ARG	O-C-N	-7.57	114.89	122.99
1	9Z	5	ASN	CA-CB-CG	-7.57	105.03	112.60
1	aR	81	ASP	O-C-N	-7.57	114.28	122.07
1	bh	174	ALA	N-CA-C	7.57	120.60	111.82
1	c2	218	CYS	CB-CA-C	7.57	121.92	111.63
1	ca	36	VAL	N-CA-C	7.57	120.51	111.05
1	cb	183	ASN	OD1-CG-ND2	-7.57	115.03	122.60
1	1k	10	MET	CA-C-O	7.57	127.58	119.03
1	eN	71	GLU	CA-C-N	7.57	130.28	120.44
1	eN	71	GLU	C-N-CA	7.57	130.28	120.44
1	fQ	121	ASN	CA-CB-CG	7.57	120.17	112.60
1	n	88	ALA	CA-C-O	-7.57	113.53	121.55
1	6	40	PHE	CB-CA-C	7.57	122.76	110.88
1	hm	170	LYS	CA-C-O	7.57	129.00	120.90
1	hp	100	ARG	NE-CZ-NH1	7.57	129.06	121.50
1	hK	5	ASN	CA-CB-CG	-7.57	105.03	112.60
1	hV	139	ASN	N-CA-C	7.57	120.19	111.11
1	j6	55	MET	N-CA-C	7.57	119.17	111.07
1	jL	122	PRO	CA-C-N	7.57	127.61	119.89
1	jL	122	PRO	C-N-CA	7.57	127.61	119.89
1	kD	145	TYR	N-CA-C	7.57	120.59	111.82
1	kJ	180	GLU	N-CA-C	7.57	119.61	111.36
1	kY	170	LYS	N-CA-C	7.57	119.53	111.28
1	lf	173	ARG	NE-CZ-NH1	7.57	129.07	121.50
1	2x	19	THR	CA-C-N	7.57	130.73	120.44
1	2x	19	THR	C-N-CA	7.57	130.73	120.44
1	3e	151	LEU	CA-C-O	7.57	128.18	119.18
1	3M	75	GLU	N-CA-C	7.57	120.19	111.11
1	3Q	13	GLN	CB-CG-CD	7.57	125.46	112.60
1	4j	83	LEU	O-C-N	-7.57	112.02	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4I	182	LYS	N-CA-C	7.57	119.17	111.07
1	4N	78	ALA	CA-C-N	7.57	130.42	120.28
1	4N	78	ALA	C-N-CA	7.57	130.42	120.28
1	5A	146	SER	CA-C-N	7.57	129.30	119.84
1	5A	146	SER	C-N-CA	7.57	129.30	119.84
1	5H	156	GLY	N-CA-C	7.57	121.08	112.00
1	7I	83	LEU	N-CA-C	7.57	119.53	111.28
1	86	5	ASN	N-CA-C	7.57	119.53	111.28
1	9S	63	GLN	N-CA-C	7.57	119.61	111.36
1	a5	183	ASN	CA-CB-CG	-7.57	105.03	112.60
1	am	84	HIS	CA-C-N	7.57	129.30	119.84
1	am	84	HIS	C-N-CA	7.57	129.30	119.84
1	aV	211	LEU	O-C-N	-7.57	113.53	122.15
1	bG	29	GLU	N-CA-C	7.57	119.16	111.07
1	bT	139	ASN	CA-CB-CG	7.57	120.17	112.60
1	c5	100	ARG	CA-C-N	7.57	129.60	120.14
1	c5	100	ARG	C-N-CA	7.57	129.60	120.14
1	cD	163	ASP	CA-C-N	7.57	130.42	120.28
1	cD	163	ASP	C-N-CA	7.57	130.42	120.28
1	cR	39	MET	N-CA-C	7.57	119.17	111.07
1	cW	61	GLY	CA-C-N	7.57	133.52	122.63
1	cW	61	GLY	C-N-CA	7.57	133.52	122.63
1	cX	136	LEU	CA-C-N	7.57	128.54	119.99
1	cX	136	LEU	C-N-CA	7.57	128.54	119.99
1	dL	159	GLU	CA-C-N	7.57	127.61	119.89
1	dL	159	GLU	C-N-CA	7.57	127.61	119.89
1	eb	165	VAL	N-CA-C	7.57	118.34	110.62
1	1r	161	PHE	CA-CB-CG	-7.57	106.23	113.80
1	fa	203	LYS	CA-C-N	7.57	130.27	120.44
1	fa	203	LYS	C-N-CA	7.57	130.27	120.44
1	fp	87	HIS	N-CA-C	7.57	121.48	110.28
1	fu	86	VAL	CB-CA-C	7.57	119.93	111.08
1	fC	134	ILE	O-C-N	-7.57	114.04	121.83
1	gX	95	GLN	N-CA-C	7.56	121.67	110.48
1	ir	19	THR	CA-C-N	7.56	131.30	120.79
1	ir	19	THR	C-N-CA	7.56	131.30	120.79
1	iW	119	THR	N-CA-C	-7.56	103.12	112.88
1	ji	146	SER	O-C-N	-7.56	114.34	122.06
1	kb	25	LYS	CA-C-N	7.56	130.09	120.56
1	kb	25	LYS	C-N-CA	7.56	130.09	120.56
1	2L	143	ARG	NE-CZ-NH2	-7.56	112.39	119.20
1	2S	195	ASN	CB-CA-C	7.56	121.45	109.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	40	81	ASP	CA-CB-CG	-7.56	105.04	112.60
1	5s	27	VAL	O-C-N	-7.56	114.53	121.87
1	6a	188	THR	CA-CB-OG1	7.56	120.95	109.60
1	6c	124	ILE	O-C-N	-7.56	116.61	121.37
1	c9	163	ASP	CA-C-O	7.56	128.76	120.82
1	cj	152	ASP	N-CA-C	-7.56	104.05	113.28
1	cE	117	TRP	N-CA-C	7.56	119.16	111.07
1	gd	48	THR	N-CA-CB	7.56	119.18	110.03
1	gF	41	SER	CA-C-N	7.56	130.73	120.44
1	gF	41	SER	C-N-CA	7.56	130.73	120.44
1	hG	52	LEU	CA-C-N	7.56	131.03	120.29
1	hG	52	LEU	C-N-CA	7.56	131.03	120.29
1	hX	55	MET	N-CA-C	7.56	119.52	111.28
1	jA	30	LYS	CA-C-N	7.56	133.51	120.58
1	jA	30	LYS	C-N-CA	7.56	133.51	120.58
1	jC	16	SER	N-CA-C	7.56	118.87	109.57
1	jL	97	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	kr	217	ALA	N-CA-C	7.56	120.34	110.43
1	l9	75	GLU	O-C-N	-7.56	113.53	122.15
1	lB	52	LEU	N-CA-C	7.56	119.16	111.07
1	lO	12	HIS	CB-CG-ND1	7.56	134.04	122.70
1	46	143	ARG	CA-C-N	7.56	130.41	120.28
1	46	143	ARG	C-N-CA	7.56	130.41	120.28
1	4f	199	LYS	N-CA-C	7.56	120.48	111.33
1	4p	126	VAL	O-C-N	-7.56	114.26	121.90
1	4K	56	LEU	CA-C-N	7.56	132.70	120.60
1	4K	56	LEU	C-N-CA	7.56	132.70	120.60
1	5q	154	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	5r	33	SER	CA-C-O	-7.56	114.13	120.71
1	6d	158	LYS	N-CA-C	7.56	119.52	111.28
1	8l	42	ALA	CA-C-N	7.56	130.41	120.28
1	8l	42	ALA	C-N-CA	7.56	130.41	120.28
1	8v	32	PHE	CA-CB-CG	-7.56	106.24	113.80
1	8C	62	HIS	CA-CB-CG	-7.56	106.24	113.80
1	9g	175	GLU	O-C-N	-7.56	113.57	122.87
1	a7	176	GLN	CA-C-N	7.56	132.58	121.31
1	a7	176	GLN	C-N-CA	7.56	132.58	121.31
1	aj	86	VAL	CA-C-N	7.56	131.87	121.05
1	aj	86	VAL	C-N-CA	7.56	131.87	121.05
1	at	7	GLN	CA-C-N	-7.56	114.17	120.98
1	at	7	GLN	C-N-CA	-7.56	114.17	120.98
1	aB	33	SER	O-C-N	-7.56	114.39	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bg	118	MET	N-CA-C	7.56	121.95	112.87
1	ci	130	TYR	N-CA-C	7.56	119.52	111.28
1	dB	25	LYS	CA-C-N	7.56	131.19	120.53
1	dB	25	LYS	C-N-CA	7.56	131.19	120.53
1	eu	110	THR	CA-CB-OG1	7.56	120.94	109.60
1	ft	180	GLU	CA-C-N	7.56	130.82	120.46
1	ft	180	GLU	C-N-CA	7.56	130.82	120.46
1	ft	221	VAL	N-CA-C	7.56	118.48	111.45
1	fF	80	TRP	N-CA-C	7.56	119.52	111.28
1	fN	156	GLY	CA-C-N	7.56	129.29	119.84
1	fN	156	GLY	C-N-CA	7.56	129.29	119.84
1	i7	185	MET	CA-C-O	-7.56	112.41	120.42
1	iL	97	ARG	O-C-N	-7.56	113.57	122.87
1	iZ	23	TRP	O-C-N	-7.56	114.11	122.12
1	j5	153	ILE	N-CA-C	7.56	117.68	110.42
1	jC	10	MET	CG-SD-CE	-7.56	84.27	100.90
1	2P	37	ILE	CA-C-O	-7.56	112.42	118.85
1	4J	32	PHE	CA-CB-CG	-7.56	106.24	113.80
1	5t	53	ASN	CA-CB-CG	-7.56	105.04	112.60
1	6o	26	VAL	CA-C-N	7.56	130.09	120.56
1	6o	26	VAL	C-N-CA	7.56	130.09	120.56
1	6o	69	LEU	N-CA-C	7.56	119.16	111.07
1	6v	120	HIS	CA-CB-CG	-7.56	106.24	113.80
1	6T	173	ARG	NE-CZ-NH2	-7.56	112.39	119.20
1	8X	196	PRO	N-CA-C	-7.56	103.27	113.40
1	aj	154	ARG	NE-CZ-NH2	7.56	126.00	119.20
1	ar	53	ASN	CA-CB-CG	-7.56	105.04	112.60
1	cr	18	ARG	NH1-CZ-NH2	-7.56	109.47	119.30
1	cR	36	VAL	CA-C-N	7.56	126.38	120.33
1	cR	36	VAL	C-N-CA	7.56	126.38	120.33
1	cV	132	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	1l	188	THR	CA-C-N	7.56	131.80	120.31
1	1l	188	THR	C-N-CA	7.56	131.80	120.31
1	ea	183	ASN	CA-C-N	7.56	130.27	120.44
1	ea	183	ASN	C-N-CA	7.56	130.27	120.44
1	fA	32	PHE	CA-CB-CG	-7.56	106.24	113.80
1	y	226	HIS	N-CA-C	7.56	120.63	110.35
1	ge	199	LYS	N-CA-C	7.56	120.48	111.33
1	gn	215	MET	N-CA-CB	7.56	122.00	110.28
1	gt	169	TYR	O-C-N	-7.56	114.11	122.12
1	gO	64	ALA	N-CA-C	7.56	119.52	111.28
1	gO	126	VAL	N-CA-C	7.56	120.54	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h7	87	HIS	CE1-NE2-CD2	-7.56	101.44	109.00
1	hw	53	ASN	N-CA-C	7.56	119.52	111.28
1	ka	200	THR	O-C-N	-7.56	113.37	122.22
1	kn	84	HIS	O-C-N	-7.56	112.48	121.02
1	kI	97	ARG	O-C-N	-7.56	113.91	122.75
1	3g	202	LEU	O-C-N	-7.56	114.11	122.12
1	4m	57	ASN	OD1-CG-ND2	7.56	130.16	122.60
1	4q	133	TRP	N-CA-C	7.56	119.60	111.36
1	5l	126	VAL	N-CA-C	7.56	118.33	110.62
1	5B	120	HIS	CA-CB-CG	7.56	121.36	113.80
1	5S	42	ALA	CA-C-N	7.56	130.41	120.28
1	5S	42	ALA	C-N-CA	7.56	130.41	120.28
1	6z	64	ALA	N-CA-C	7.56	119.16	111.07
1	6Z	168	PHE	CA-C-O	-7.56	112.88	120.82
1	7c	33	SER	O-C-N	-7.56	114.55	121.66
1	7f	188	THR	CA-C-N	7.56	130.75	120.54
1	7f	188	THR	C-N-CA	7.56	130.75	120.54
1	7k	92	GLU	CB-CA-C	-7.56	101.23	109.85
1	7u	13	GLN	CA-C-N	-7.56	111.39	122.65
1	7u	13	GLN	C-N-CA	-7.56	111.39	122.65
1	7u	193	ASN	CA-C-N	7.56	131.93	120.82
1	7u	193	ASN	C-N-CA	7.56	131.93	120.82
1	7S	100	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	8N	51	ASP	CA-CB-CG	7.56	120.16	112.60
1	9a	62	HIS	ND1-CE1-NE2	7.56	115.96	108.40
1	aJ	16	SER	CA-C-N	7.56	127.44	119.05
1	aJ	16	SER	C-N-CA	7.56	127.44	119.05
1	aX	109	SER	N-CA-CB	7.56	121.47	110.06
1	cB	71	GLU	CA-C-O	7.56	128.56	120.55
1	cY	25	LYS	N-CA-C	7.56	119.60	111.36
1	e3	178	SER	CA-C-N	7.56	130.41	120.28
1	e3	178	SER	C-N-CA	7.56	130.41	120.28
1	eu	33	SER	N-CA-C	-7.56	101.42	108.22
1	f7	64	ALA	N-CA-C	7.56	119.52	111.28
1	fN	42	ALA	N-CA-C	7.56	119.52	111.28
1	fZ	33	SER	CA-C-N	7.56	127.10	119.24
1	fZ	33	SER	C-N-CA	7.56	127.10	119.24
1	K	87	HIS	N-CA-C	7.56	121.47	110.28
1	hY	58	THR	CA-C-N	7.56	130.68	120.63
1	hY	58	THR	C-N-CA	7.56	130.68	120.63
1	iX	172	LEU	CA-C-N	7.56	130.41	120.28
1	iX	172	LEU	C-N-CA	7.56	130.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l5	212	GLU	CA-C-N	7.56	130.72	120.44
1	l5	212	GLU	C-N-CA	7.56	130.72	120.44
1	lB	113	GLU	CA-C-N	7.56	130.27	120.44
1	lB	113	GLU	C-N-CA	7.56	130.27	120.44
1	lI	37	ILE	O-C-N	-7.56	115.58	120.42
1	2s	193	ASN	CA-CB-CG	-7.56	105.04	112.60
1	2I	162	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	31	20	LEU	O-C-N	-7.56	114.11	122.12
1	3c	159	GLU	CA-C-N	7.56	127.60	119.89
1	3c	159	GLU	C-N-CA	7.56	127.60	119.89
1	3q	184	TRP	N-CA-C	7.56	119.16	111.07
1	4m	167	ARG	CA-C-N	7.56	131.30	120.79
1	4m	167	ARG	C-N-CA	7.56	131.30	120.79
1	4q	7	GLN	N-CA-CB	7.56	123.26	110.49
1	4O	21	ASN	O-C-N	-7.56	114.11	122.12
1	5h	92	GLU	N-CA-C	-7.56	99.45	108.14
1	5y	202	LEU	N-CA-C	7.56	119.16	111.07
1	6w	180	GLU	CA-C-O	7.56	128.56	120.55
1	6S	154	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	7T	64	ALA	CA-C-N	7.56	130.41	120.28
1	7T	64	ALA	C-N-CA	7.56	130.41	120.28
1	8z	57	ASN	CA-CB-CG	-7.56	105.04	112.60
1	8D	225	GLY	O-C-N	7.56	131.29	122.45
1	9N	221	VAL	O-C-N	-7.56	115.46	122.79
1	aa	11	VAL	O-C-N	-7.56	114.42	122.81
1	at	185	MET	CG-SD-CE	-7.56	84.28	100.90
1	aw	167	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	d8	102	SER	O-C-N	-7.56	112.97	122.27
1	df	13	GLN	N-CA-C	-7.56	97.56	109.50
1	ef	173	ARG	NE-CZ-NH2	-7.56	112.40	119.20
1	eF	134	ILE	O-C-N	-7.56	114.05	121.83
1	eU	57	ASN	CA-CB-CG	-7.56	105.04	112.60
1	f3	229	ARG	N-CA-C	7.56	121.36	110.10
1	fI	132	ARG	NE-CZ-NH2	-7.56	112.40	119.20
1	fJ	58	THR	N-CA-C	7.56	119.52	111.28
1	fQ	63	GLN	N-CA-CB	-7.56	98.58	110.22
1	fZ	137	GLY	CA-C-N	7.56	130.26	120.44
1	fZ	137	GLY	C-N-CA	7.56	130.26	120.44
1	gS	219	GLN	N-CA-C	7.56	122.08	112.86
1	gY	48	THR	CA-C-O	-7.56	110.39	121.27
1	jy	179	GLN	N-CA-C	7.56	119.60	111.36
1	20	115	ILE	N-CA-C	7.56	117.67	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kb	132	ARG	NE-CZ-NH1	7.56	129.06	121.50
1	kV	68	MET	CA-C-O	7.56	128.56	120.55
1	lr	162	ARG	CA-C-N	7.56	130.41	120.28
1	lr	162	ARG	C-N-CA	7.56	130.41	120.28
1	2c	68	MET	CA-C-N	7.56	130.26	120.44
1	2c	68	MET	C-N-CA	7.56	130.26	120.44
1	30	26	VAL	N-CA-CB	7.56	118.55	110.62
1	4a	159	GLU	O-C-N	-7.56	114.09	121.19
1	4P	191	VAL	O-C-N	-7.56	113.85	122.09
1	6o	62	HIS	CA-CB-CG	-7.56	106.24	113.80
1	6q	103	ASP	CA-CB-CG	-7.56	105.04	112.60
1	6y	87	HIS	N-CA-C	7.56	121.46	110.28
1	7E	199	LYS	O-C-N	-7.56	114.23	122.09
1	7G	21	ASN	CA-CB-CG	7.56	120.16	112.60
1	8A	172	LEU	O-C-N	-7.56	114.29	122.07
1	8E	148	THR	O-C-N	-7.56	115.98	123.46
1	cm	219	GLN	CB-CA-C	-7.56	101.00	111.73
1	cF	200	THR	CA-C-N	7.56	130.08	120.56
1	cF	200	THR	C-N-CA	7.56	130.08	120.56
1	j	11	VAL	N-CA-C	7.56	122.62	112.04
1	o	2	ILE	N-CA-C	7.56	118.81	108.84
1	gG	113	GLU	CA-C-N	7.55	130.40	120.28
1	gG	113	GLU	C-N-CA	7.55	130.40	120.28
1	gV	128	GLU	CA-C-N	7.55	130.08	120.56
1	gV	128	GLU	C-N-CA	7.55	130.08	120.56
1	h7	85	PRO	N-CA-CB	7.55	108.25	102.73
1	1M	128	GLU	CA-C-N	7.55	130.08	120.56
1	1M	128	GLU	C-N-CA	7.55	130.08	120.56
1	1Q	209	ALA	N-CA-C	7.55	120.06	110.24
1	iD	101	GLY	CA-C-N	7.55	130.40	120.28
1	iD	101	GLY	C-N-CA	7.55	130.40	120.28
1	iS	28	GLU	O-C-N	-7.55	114.11	122.12
1	ju	226	HIS	N-CA-C	7.55	120.87	107.80
1	jz	61	GLY	O-C-N	-7.55	114.81	122.59
1	k5	82	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	l4	120	HIS	CG-CD2-NE2	7.55	114.75	107.20
1	lm	29	GLU	N-CA-C	7.55	119.15	111.07
1	2d	191	VAL	CA-C-N	7.55	130.40	120.28
1	2d	191	VAL	C-N-CA	7.55	130.40	120.28
1	3d	113	GLU	N-CA-C	7.55	120.17	111.11
1	3f	56	LEU	O-C-N	-7.55	114.11	122.12
1	3k	185	MET	CA-C-N	7.55	130.40	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3k	185	MET	C-N-CA	7.55	130.40	120.28
1	3Y	143	ARG	NH1-CZ-NH2	-7.55	109.48	119.30
1	4J	76	GLU	CA-C-N	7.55	130.26	120.44
1	4J	76	GLU	C-N-CA	7.55	130.26	120.44
1	50	137	GLY	CA-C-N	7.55	130.26	120.44
1	50	137	GLY	C-N-CA	7.55	130.26	120.44
1	6H	146	SER	N-CA-C	7.55	120.36	109.48
1	6X	79	GLU	CA-C-O	-7.55	111.56	120.10
1	7j	156	GLY	CA-C-N	7.55	127.44	119.05
1	7j	156	GLY	C-N-CA	7.55	127.44	119.05
1	7y	103	ASP	CA-C-N	7.55	130.35	120.60
1	7y	103	ASP	C-N-CA	7.55	130.35	120.60
1	7Y	41	SER	O-C-N	-7.55	114.29	122.07
1	92	82	ARG	CA-C-O	7.55	128.66	119.97
1	9j	163	ASP	CA-C-N	7.55	131.79	120.31
1	9j	163	ASP	C-N-CA	7.55	131.79	120.31
1	9m	16	SER	O-C-N	-7.55	115.11	121.23
1	9L	91	ILE	O-C-N	-7.55	115.02	123.18
1	al	25	LYS	CA-C-N	7.55	130.14	120.70
1	al	25	LYS	C-N-CA	7.55	130.14	120.70
1	aL	162	ARG	N-CA-C	7.55	121.42	111.75
1	b8	87	HIS	CE1-NE2-CD2	-7.55	101.44	109.00
1	1c	25	LYS	N-CA-C	7.55	119.51	111.28
1	db	92	GLU	CA-C-O	-7.55	111.34	118.44
1	dc	129	ILE	O-C-N	-7.55	114.04	121.90
1	dO	150	ILE	N-CA-C	7.55	118.33	110.62
1	en	168	PHE	N-CA-CB	7.55	120.94	109.91
1	1t	164	TYR	N-CA-CB	7.55	120.96	110.01
1	fo	88	ALA	CA-C-N	7.55	133.73	121.87
1	fo	88	ALA	C-N-CA	7.55	133.73	121.87
1	fQ	57	ASN	CA-CB-CG	-7.55	105.05	112.60
1	g5	183	ASN	OD1-CG-ND2	-7.55	115.05	122.60
1	u	61	GLY	N-CA-C	7.55	121.80	112.73
1	S	12	HIS	CG-CD2-NE2	7.55	114.75	107.20
1	gz	206	GLY	O-C-N	-7.55	114.22	121.77
1	hj	84	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	hC	216	THR	CA-C-O	7.55	128.40	119.56
1	j4	63	GLN	N-CA-C	7.55	120.40	111.71
1	jZ	146	SER	CA-C-O	-7.55	112.31	120.17
1	lI	127	GLY	O-C-N	-7.55	114.94	122.19
1	4I	5	ASN	N-CA-C	-7.55	104.06	113.28
1	55	74	ASN	CA-CB-CG	-7.55	105.05	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6y	74	ASN	CA-C-O	-7.55	112.92	120.70
1	6V	86	VAL	CA-C-O	7.55	128.37	120.36
1	88	226	HIS	O-C-N	-7.55	114.35	123.19
1	9a	97	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	aT	143	ARG	N-CA-C	7.55	119.51	111.28
1	b1	70	LYS	CA-C-N	7.55	131.02	120.29
1	b1	70	LYS	C-N-CA	7.55	131.02	120.29
1	bp	221	VAL	CA-C-O	7.55	129.68	121.67
1	bN	189	LEU	N-CA-C	7.55	119.51	111.28
1	bQ	97	ARG	NE-CZ-NH2	-7.55	112.40	119.20
1	cM	72	THR	N-CA-C	7.55	119.51	111.28
1	da	198	CYS	CA-C-N	7.55	130.40	120.28
1	da	198	CYS	C-N-CA	7.55	130.40	120.28
1	dY	81	ASP	CA-C-N	7.55	130.40	120.28
1	dY	81	ASP	C-N-CA	7.55	130.40	120.28
1	gI	15	ILE	N-CA-C	7.55	118.74	109.30
1	1F	208	ALA	CA-C-N	7.55	131.85	121.05
1	1F	208	ALA	C-N-CA	7.55	131.85	121.05
1	h4	38	PRO	N-CA-CB	7.55	111.53	103.52
1	1K	5	ASN	CA-CB-CG	7.55	120.15	112.60
1	i4	27	VAL	O-C-N	-7.55	114.55	121.87
1	j5	203	LYS	N-CA-C	7.55	120.58	111.82
1	kU	32	PHE	CA-CB-CG	-7.55	106.25	113.80
1	lc	12	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	2i	162	ARG	CA-C-N	7.55	130.40	120.28
1	2i	162	ARG	C-N-CA	7.55	130.40	120.28
1	2l	162	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	31	101	GLY	N-CA-C	7.55	123.13	113.24
1	32	103	ASP	N-CA-C	-7.55	104.59	113.88
1	3l	166	ASP	CA-CB-CG	7.55	120.15	112.60
1	3F	195	ASN	CA-C-N	7.55	129.28	119.84
1	3F	195	ASN	C-N-CA	7.55	129.28	119.84
1	4f	122	PRO	CA-C-N	7.55	129.28	119.84
1	4f	122	PRO	C-N-CA	7.55	129.28	119.84
1	4n	25	LYS	N-CA-C	7.55	119.51	111.28
1	52	33	SER	CA-C-N	7.55	127.26	119.56
1	52	33	SER	C-N-CA	7.55	127.26	119.56
1	5j	165	VAL	N-CA-C	7.55	117.67	110.42
1	5M	220	GLY	CA-C-O	7.55	128.53	120.75
1	64	56	LEU	N-CA-C	7.55	119.51	111.28
1	6x	4	GLN	OE1-CD-NE2	-7.55	115.05	122.60
1	6E	53	ASN	CA-C-O	-7.55	112.55	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6U	72	THR	CA-C-N	7.55	130.07	120.56
1	6U	72	THR	C-N-CA	7.55	130.07	120.56
1	8o	173	ARG	N-CA-C	7.55	119.51	111.28
1	8z	73	ILE	CA-C-N	7.55	130.40	120.28
1	8z	73	ILE	C-N-CA	7.55	130.40	120.28
1	96	195	ASN	O-C-N	-7.55	112.64	121.32
1	9e	100	ARG	N-CA-CB	-7.55	99.47	110.87
1	aj	77	ALA	N-CA-C	7.55	119.51	111.28
1	aq	62	HIS	CA-CB-CG	-7.55	106.25	113.80
1	aW	39	MET	CA-C-N	7.55	130.73	120.38
1	aW	39	MET	C-N-CA	7.55	130.73	120.38
1	17	21	ASN	CB-CA-C	7.55	122.74	110.88
1	bq	21	ASN	CA-C-N	7.55	130.73	120.38
1	bq	21	ASN	C-N-CA	7.55	130.73	120.38
1	bT	131	LYS	N-CA-C	7.55	120.17	111.11
1	cg	192	GLN	N-CA-C	7.55	120.39	111.71
1	cs	84	HIS	CA-CB-CG	-7.55	106.25	113.80
1	cT	79	GLU	CA-C-O	7.55	128.56	120.55
1	dq	132	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	dU	5	ASN	CA-CB-CG	-7.55	105.05	112.60
1	dZ	42	ALA	N-CA-CB	-7.55	98.67	110.30
1	eF	76	GLU	N-CA-C	7.55	119.51	111.28
1	eI	73	ILE	O-C-N	-7.55	114.55	121.87
1	f4	195	ASN	CA-CB-CG	7.55	120.15	112.60
1	f6	171	THR	N-CA-CB	7.55	121.34	110.16
1	1x	24	VAL	CA-C-O	-7.55	113.10	120.95
1	C	59	VAL	CB-CA-C	-7.55	102.25	111.08
1	iJ	142	VAL	N-CA-C	7.55	118.32	110.62
1	jc	101	GLY	CA-C-N	7.55	131.15	120.28
1	jc	101	GLY	C-N-CA	7.55	131.15	120.28
1	ji	35	GLU	N-CA-C	7.55	121.75	112.54
1	jv	17	PRO	N-CA-C	-7.55	103.28	113.40
1	jD	12	HIS	N-CA-C	7.55	120.62	110.35
1	k0	146	SER	CA-C-N	7.55	127.19	119.19
1	k0	146	SER	C-N-CA	7.55	127.19	119.19
1	k4	82	ARG	NE-CZ-NH2	-7.55	112.41	119.20
1	kW	53	ASN	N-CA-C	7.55	120.47	111.33
1	lg	87	HIS	CA-CB-CG	-7.55	106.25	113.80
1	34	24	VAL	O-C-N	-7.55	114.51	121.91
1	3a	162	ARG	CA-C-N	7.55	131.01	120.29
1	3a	162	ARG	C-N-CA	7.55	131.01	120.29
1	3f	145	TYR	CB-CG-CD1	7.55	132.13	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4e	88	ALA	N-CA-C	7.55	119.51	111.28
1	4r	190	LEU	N-CA-C	7.55	119.51	111.28
1	4J	36	VAL	CA-C-N	7.55	125.00	120.24
1	4J	36	VAL	C-N-CA	7.55	125.00	120.24
1	4X	188	THR	CA-C-N	7.55	130.25	120.44
1	4X	188	THR	C-N-CA	7.55	130.25	120.44
1	51	78	ALA	CA-C-N	7.55	130.73	120.54
1	51	78	ALA	C-N-CA	7.55	130.73	120.54
1	5v	36	VAL	N-CA-CB	7.55	118.89	110.51
1	65	192	GLN	N-CA-C	7.55	119.15	111.07
1	8x	182	LYS	N-CA-C	7.55	119.15	111.07
1	8B	84	HIS	CB-CG-CD2	7.55	141.01	131.20
1	8M	131	LYS	O-C-N	-7.55	114.29	122.07
1	8U	218	CYS	N-CA-C	7.55	122.07	112.86
1	9q	96	MET	N-CA-C	7.55	122.32	110.17
1	ad	102	SER	N-CA-C	7.55	119.51	111.28
1	ag	103	ASP	CA-C-O	7.55	128.55	120.55
1	aE	38	PRO	CB-CA-C	7.55	124.02	111.56
1	bB	213	GLU	CA-C-N	7.55	130.40	120.28
1	bB	213	GLU	C-N-CA	7.55	130.40	120.28
1	bK	205	LEU	N-CA-CB	7.55	121.66	110.49
1	bY	12	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	ce	84	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	es	190	LEU	O-C-N	-7.55	112.22	122.33
1	eQ	119	THR	CA-C-O	7.55	128.41	119.28
1	fr	173	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	b	132	ARG	NH1-CZ-NH2	-7.55	109.48	119.30
1	6	39	MET	CA-C-O	-7.55	112.55	120.55
1	gD	181	VAL	N-CA-C	7.55	117.67	110.42
1	i5	86	VAL	CA-C-N	7.55	131.43	120.71
1	i5	86	VAL	C-N-CA	7.55	131.43	120.71
1	iM	55	MET	CA-C-N	7.55	130.25	120.44
1	iM	55	MET	C-N-CA	7.55	130.25	120.44
1	40	143	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	4o	23	TRP	N-CA-C	7.55	119.51	111.28
1	4I	122	PRO	CA-C-N	7.55	127.53	119.76
1	4I	122	PRO	C-N-CA	7.55	127.53	119.76
1	9w	185	MET	CA-C-N	7.55	130.39	120.28
1	9w	185	MET	C-N-CA	7.55	130.39	120.28
1	aV	97	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	be	166	ASP	CA-C-N	7.55	131.01	120.29
1	be	166	ASP	C-N-CA	7.55	131.01	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	53	ASN	CA-C-N	7.55	130.39	120.28
1	bz	53	ASN	C-N-CA	7.55	130.39	120.28
1	cL	62	HIS	CA-CB-CG	-7.55	106.25	113.80
1	eH	130	TYR	CA-C-N	7.55	132.68	120.60
1	eH	130	TYR	C-N-CA	7.55	132.68	120.60
1	gQ	212	GLU	N-CA-C	7.55	120.17	111.11
1	hr	90	PRO	N-CA-C	7.55	123.07	111.15
1	im	181	VAL	N-CA-C	-7.55	103.18	110.42
1	iB	39	MET	N-CA-C	7.55	120.39	111.71
1	iT	68	MET	CA-C-O	7.55	128.74	120.82
1	iU	42	ALA	N-CA-C	7.55	119.50	111.28
1	jQ	112	GLN	O-C-N	-7.55	114.12	122.12
1	ks	62	HIS	ND1-CG-CD2	7.55	113.65	106.10
1	kF	229	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	ly	133	TRP	CB-CG-CD2	-7.55	116.23	126.80
1	2e	14	ALA	N-CA-C	7.55	120.32	110.43
1	2o	26	VAL	N-CA-C	7.55	118.32	110.62
1	3C	13	GLN	CA-C-N	7.55	132.15	120.75
1	3C	13	GLN	C-N-CA	7.55	132.15	120.75
1	4K	181	VAL	CA-C-N	7.55	130.39	120.28
1	4K	181	VAL	C-N-CA	7.55	130.39	120.28
1	4Q	90	PRO	CB-CA-C	7.55	119.94	111.11
1	4T	125	PRO	CA-C-N	7.55	130.80	120.46
1	4T	125	PRO	C-N-CA	7.55	130.80	120.46
1	5E	181	VAL	N-CA-C	-7.55	104.43	111.45
1	5M	89	GLY	CA-C-N	7.55	127.60	119.90
1	5M	89	GLY	C-N-CA	7.55	127.60	119.90
1	5W	120	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	6Z	182	LYS	O-C-N	-7.55	114.12	122.12
1	7P	75	GLU	N-CA-C	7.55	119.59	111.36
1	7X	177	ALA	N-CA-C	7.55	121.20	109.96
1	8v	82	ARG	N-CA-C	7.55	119.51	111.28
1	94	2	ILE	O-C-N	-7.55	114.63	122.63
1	99	202	LEU	N-CA-C	7.55	120.17	111.11
1	9M	45	GLU	N-CA-C	7.55	120.39	111.71
1	ay	92	GLU	CA-C-N	7.55	127.60	119.90
1	ay	92	GLU	C-N-CA	7.55	127.60	119.90
1	aP	120	HIS	CE1-NE2-CD2	-7.55	101.45	109.00
1	15	162	ARG	NE-CZ-NH1	7.55	129.05	121.50
1	bR	6	LEU	CA-C-O	7.55	128.42	120.42
1	bT	173	ARG	NE-CZ-NH2	-7.55	112.41	119.20
1	cy	84	HIS	CA-C-O	-7.55	112.47	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	68	MET	O-C-N	-7.55	114.30	122.07
1	cR	162	ARG	N-CA-C	7.55	120.46	111.33
1	dw	26	VAL	CA-C-N	7.55	130.07	120.56
1	dw	26	VAL	C-N-CA	7.55	130.07	120.56
1	eo	169	TYR	CA-C-N	7.55	130.25	120.44
1	eo	169	TYR	C-N-CA	7.55	130.25	120.44
1	g	195	ASN	CA-CB-CG	-7.55	105.05	112.60
1	V	173	ARG	NE-CZ-NH2	7.55	125.99	119.20
1	j3	135	ILE	N-CA-C	7.54	118.32	110.62
1	jx	112	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	jE	55	MET	O-C-N	-7.54	114.12	122.12
1	jK	53	ASN	CA-CB-CG	-7.54	105.06	112.60
1	3J	197	ASP	N-CA-C	7.54	119.14	111.07
1	4o	27	VAL	CB-CA-C	-7.54	101.95	112.14
1	5x	72	THR	CA-C-O	7.54	128.55	120.55
1	8o	97	ARG	O-C-N	-7.54	113.16	122.82
1	cg	15	ILE	CA-C-O	7.54	130.26	120.98
1	cT	213	GLU	N-CA-C	7.54	119.58	111.36
1	do	124	ILE	CA-C-O	-7.54	115.75	120.88
1	eB	21	ASN	CA-CB-CG	7.54	120.14	112.60
1	fp	154	ARG	NE-CZ-NH2	7.54	125.99	119.20
1	g0	4	GLN	CA-C-O	7.54	129.60	120.92
1	y	59	VAL	O-C-N	-7.54	113.14	122.57
1	gx	4	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	gA	80	TRP	CA-C-N	7.54	131.78	120.31
1	gA	80	TRP	C-N-CA	7.54	131.78	120.31
1	gD	180	GLU	CA-C-N	7.54	130.06	120.56
1	gD	180	GLU	C-N-CA	7.54	130.06	120.56
1	h5	117	TRP	N-CA-C	7.54	120.46	111.33
1	hd	159	GLU	N-CA-C	7.54	118.85	109.57
1	hQ	50	GLN	O-C-N	-7.54	114.12	122.12
1	1P	56	LEU	N-CA-C	7.54	120.39	111.71
1	1Q	79	GLU	N-CA-C	7.54	119.50	111.28
1	jc	154	ARG	NE-CZ-NH1	7.54	129.04	121.50
1	jk	103	ASP	CA-C-N	7.54	130.79	120.46
1	jk	103	ASP	C-N-CA	7.54	130.79	120.46
1	1W	41	SER	CA-C-N	7.54	130.39	120.28
1	1W	41	SER	C-N-CA	7.54	130.39	120.28
1	jD	203	LYS	N-CA-C	7.54	119.14	111.07
1	kh	65	ALA	N-CA-C	7.54	119.14	111.07
1	kk	135	ILE	N-CA-C	7.54	118.31	110.62
1	kW	103	ASP	CA-C-N	7.54	130.80	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kW	103	ASP	C-N-CA	7.54	130.80	120.46
1	ly	223	GLY	CA-C-N	7.54	129.27	119.84
1	ly	223	GLY	C-N-CA	7.54	129.27	119.84
1	47	25	LYS	N-CA-C	7.54	120.16	111.11
1	5i	163	ASP	CA-C-O	7.54	128.42	120.42
1	5n	47	ALA	N-CA-C	7.54	121.17	110.23
1	5A	105	ALA	CA-C-O	7.54	128.56	119.43
1	6c	80	TRP	N-CA-C	-7.54	103.14	111.36
1	6f	171	THR	CA-C-O	7.54	128.66	119.38
1	6r	28	GLU	CA-C-N	7.54	133.31	120.71
1	6r	28	GLU	C-N-CA	7.54	133.31	120.71
1	6B	203	LYS	CA-C-O	7.54	128.74	120.82
1	7D	197	ASP	N-CA-C	7.54	120.16	111.11
1	7E	81	ASP	CA-C-N	7.54	130.25	120.44
1	7E	81	ASP	C-N-CA	7.54	130.25	120.44
1	9W	167	ARG	CA-C-N	7.54	130.25	120.44
1	9W	167	ARG	C-N-CA	7.54	130.25	120.44
1	12	32	PHE	CA-CB-CG	-7.54	106.26	113.80
1	ax	141	ILE	N-CA-C	7.54	118.31	110.62
1	14	192	GLN	O-C-N	-7.54	113.55	122.15
1	15	144	MET	N-CA-CB	7.54	121.21	110.12
1	16	143	ARG	O-C-N	-7.54	114.25	122.09
1	bs	192	GLN	N-CA-C	7.54	119.14	111.07
1	dS	117	TRP	N-CA-C	7.54	119.58	111.36
1	ed	86	VAL	CA-C-O	7.54	128.48	120.48
1	eO	214	MET	O-C-N	-7.54	113.30	122.20
1	1v	37	ILE	O-C-N	-7.54	115.59	120.42
1	fv	106	GLY	N-CA-C	-7.54	106.10	115.08
1	R	51	ASP	CA-C-N	7.54	130.39	120.28
1	R	51	ASP	C-N-CA	7.54	130.39	120.28
1	gB	115	ILE	CA-C-O	7.54	128.84	120.85
1	gV	223	GLY	CA-C-N	7.54	129.27	119.84
1	gV	223	GLY	C-N-CA	7.54	129.27	119.84
1	1L	99	PRO	N-CA-CB	7.54	109.98	103.19
1	iv	148	THR	N-CA-CB	7.54	123.23	110.49
1	k2	23	TRP	N-CA-C	7.54	119.14	111.07
1	kx	21	ASN	CA-C-O	7.54	128.74	120.82
1	kL	9	GLN	CB-CG-CD	7.54	125.42	112.60
1	kN	34	PRO	CA-C-N	7.54	131.00	120.29
1	kN	34	PRO	C-N-CA	7.54	131.00	120.29
1	25	141	ILE	O-C-N	-7.54	114.40	121.94
1	la	173	ARG	CA-C-N	7.54	130.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	la	173	ARG	C-N-CA	7.54	130.39	120.28
1	lC	90	PRO	CA-C-N	7.54	131.24	120.98
1	lC	90	PRO	C-N-CA	7.54	131.24	120.98
1	2j	226	HIS	CE1-NE2-CD2	-7.54	101.46	109.00
1	37	202	LEU	N-CA-C	7.54	119.14	111.07
1	3g	7	GLN	CB-CA-C	7.54	121.53	109.61
1	3g	132	ARG	N-CA-C	7.54	119.50	111.28
1	4b	55	MET	N-CA-C	7.54	119.58	111.36
1	4q	202	LEU	N-CA-C	-7.54	101.97	112.45
1	5k	156	GLY	CA-C-N	7.54	127.18	119.56
1	5k	156	GLY	C-N-CA	7.54	127.18	119.56
1	5P	92	GLU	CA-C-N	7.54	127.21	119.82
1	5P	92	GLU	C-N-CA	7.54	127.21	119.82
1	60	91	ILE	N-CA-C	-7.54	97.22	108.99
1	6X	81	ASP	CA-C-N	7.54	130.38	120.28
1	6X	81	ASP	C-N-CA	7.54	130.38	120.28
1	77	74	ASN	CA-CB-CG	-7.54	105.06	112.60
1	7w	139	ASN	CA-CB-CG	-7.54	105.06	112.60
1	7J	166	ASP	CA-CB-CG	7.54	120.14	112.60
1	8r	212	GLU	CA-C-O	-7.54	112.90	120.82
1	8t	75	GLU	CA-C-O	7.54	129.84	121.02
1	8M	177	ALA	CA-C-N	7.54	132.14	120.75
1	8M	177	ALA	C-N-CA	7.54	132.14	120.75
1	9F	113	GLU	O-C-N	-7.54	114.13	122.12
1	a0	86	VAL	N-CA-CB	7.54	118.75	110.53
1	a7	125	PRO	N-CA-CB	-7.54	97.22	102.73
1	az	223	GLY	CA-C-N	7.54	129.27	119.84
1	az	223	GLY	C-N-CA	7.54	129.27	119.84
1	cA	114	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	cW	33	SER	CA-C-N	7.54	127.21	119.82
1	cW	33	SER	C-N-CA	7.54	127.21	119.82
1	1l	100	ARG	CA-C-N	7.54	128.51	119.99
1	1l	100	ARG	C-N-CA	7.54	128.51	119.99
1	dK	14	ALA	CA-C-O	7.54	130.71	121.81
1	eo	80	TRP	CZ3-CH2-CZ2	-7.54	111.69	121.50
1	eQ	176	GLN	OE1-CD-NE2	7.54	130.14	122.60
1	eR	49	PRO	CA-C-N	7.54	130.39	120.28
1	eR	49	PRO	C-N-CA	7.54	130.39	120.28
1	fl	201	ILE	CB-CA-C	-7.54	102.32	111.97
1	fm	87	HIS	CA-CB-CG	7.54	121.34	113.80
1	fw	128	GLU	CA-C-N	7.54	129.92	120.72
1	fw	128	GLU	C-N-CA	7.54	129.92	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fy	185	MET	N-CA-C	7.54	119.50	111.28
1	fz	20	LEU	N-CA-C	7.54	119.50	111.28
1	fS	12	HIS	CE1-NE2-CD2	-7.54	101.46	109.00
1	1A	182	LYS	N-CA-C	7.54	120.45	111.33
1	G	156	GLY	CA-C-N	-7.54	112.40	120.47
1	G	156	GLY	C-N-CA	-7.54	112.40	120.47
1	O	136	LEU	N-CA-C	7.54	121.40	111.75
1	7	141	ILE	CB-CA-C	7.54	121.62	111.97
1	gG	162	ARG	NE-CZ-NH2	-7.54	112.41	119.20
1	jV	66	MET	N-CA-CB	7.54	121.17	109.94
1	kq	12	HIS	CE1-NE2-CD2	-7.54	101.46	109.00
1	ky	78	ALA	N-CA-C	7.54	119.14	111.07
1	3j	19	THR	N-CA-C	7.54	119.50	111.28
1	5l	179	GLN	N-CA-C	7.54	119.58	111.36
1	7Y	225	GLY	CA-C-O	-7.54	112.86	121.00
1	8a	154	ARG	O-C-N	-7.54	115.04	123.48
1	8m	48	THR	N-CA-CB	7.54	120.19	109.78
1	9Q	228	ALA	N-CA-C	7.54	122.30	113.18
1	bl	199	LYS	N-CA-C	7.54	119.50	111.28
1	bz	136	LEU	CA-C-N	7.54	129.80	120.22
1	bz	136	LEU	C-N-CA	7.54	129.80	120.22
1	bG	77	ALA	CA-C-O	7.54	128.61	119.49
1	bY	186	THR	N-CA-C	7.54	119.28	111.14
1	c8	181	VAL	CA-C-N	7.54	130.38	120.28
1	c8	181	VAL	C-N-CA	7.54	130.38	120.28
1	1e	115	ILE	CA-C-N	7.54	128.51	119.99
1	1e	115	ILE	C-N-CA	7.54	128.51	119.99
1	db	221	VAL	CA-C-N	7.54	128.00	120.31
1	db	221	VAL	C-N-CA	7.54	128.00	120.31
1	dW	146	SER	CA-C-O	-7.54	112.11	120.25
1	e8	211	LEU	CA-C-N	7.54	130.72	120.54
1	e8	211	LEU	C-N-CA	7.54	130.72	120.54
1	eq	87	HIS	CB-CG-CD2	-7.54	121.40	131.20
1	8	74	ASN	N-CA-C	7.54	120.16	111.11
1	hz	226	HIS	CB-CG-CD2	-7.54	121.40	131.20
1	hU	147	PRO	N-CA-C	-7.54	105.95	114.92
1	iG	40	PHE	O-C-N	-7.54	114.13	122.12
1	iI	167	ARG	NE-CZ-NH2	7.54	125.98	119.20
1	kT	82	ARG	NE-CZ-NH1	7.54	129.04	121.50
1	ln	131	LYS	N-CA-C	7.54	119.14	111.07
1	lp	16	SER	CA-C-N	7.54	128.21	119.47
1	lp	16	SER	C-N-CA	7.54	128.21	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	77	ALA	N-CA-C	7.54	119.58	111.36
1	3j	78	ALA	CA-C-N	7.54	130.72	120.54
1	3j	78	ALA	C-N-CA	7.54	130.72	120.54
1	3z	26	VAL	CA-C-N	7.54	130.06	120.56
1	3z	26	VAL	C-N-CA	7.54	130.06	120.56
1	42	191	VAL	N-CA-CB	-7.54	101.73	110.55
1	4m	37	ILE	N-CA-CB	7.54	116.33	110.45
1	4F	121	ASN	OD1-CG-ND2	-7.54	115.06	122.60
1	52	138	LEU	O-C-N	-7.54	113.56	122.15
1	7h	143	ARG	N-CA-C	7.54	119.50	111.28
1	7P	110	THR	O-C-N	-7.54	114.62	123.06
1	80	62	HIS	ND1-CE1-NE2	7.54	115.94	108.40
1	8o	89	GLY	CA-C-N	7.54	129.26	119.84
1	8o	89	GLY	C-N-CA	7.54	129.26	119.84
1	8s	45	GLU	CA-C-O	7.54	127.97	120.88
1	8L	87	HIS	CA-CB-CG	-7.54	106.26	113.80
1	8Y	77	ALA	CA-C-O	7.54	128.41	120.42
1	9d	201	ILE	O-C-N	7.54	129.18	121.87
1	ax	100	ARG	CA-C-N	7.54	128.51	119.99
1	ax	100	ARG	C-N-CA	7.54	128.51	119.99
1	aI	166	ASP	N-CA-C	7.54	119.14	111.07
1	aQ	84	HIS	O-C-N	-7.54	114.59	121.30
1	bs	133	TRP	O-C-N	7.54	130.74	122.15
1	19	91	ILE	N-CA-CB	-7.54	102.50	110.72
1	bD	201	ILE	CA-C-N	7.54	130.38	120.28
1	bD	201	ILE	C-N-CA	7.54	130.38	120.28
1	c2	141	ILE	O-C-N	-7.54	114.56	121.87
1	cI	124	ILE	CA-CB-CG1	7.54	123.21	110.40
1	cO	64	ALA	N-CA-C	7.54	119.19	110.97
1	cS	25	LYS	N-CA-C	7.54	120.45	111.33
1	cY	82	ARG	CA-C-N	7.54	130.24	120.44
1	cY	82	ARG	C-N-CA	7.54	130.24	120.44
1	1o	163	ASP	N-CA-C	7.54	119.50	111.28
1	eP	178	SER	CA-C-O	7.54	129.60	121.16
1	eS	169	TYR	N-CA-C	7.54	119.50	111.28
1	eY	172	LEU	CA-C-N	7.54	130.24	120.44
1	eY	172	LEU	C-N-CA	7.54	130.24	120.44
1	1u	113	GLU	N-CA-C	7.54	119.58	111.36
1	g	115	ILE	CB-CA-C	7.54	121.62	111.97
1	2	22	ALA	O-C-N	-7.54	113.56	122.15
1	3	28	GLU	N-CA-C	7.54	120.45	111.33
1	gs	52	LEU	CA-C-N	7.54	130.38	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gs	52	LEU	C-N-CA	7.54	130.38	120.28
1	i1	32	PHE	CA-CB-CG	-7.54	106.26	113.80
1	i3	100	ARG	NE-CZ-NH1	7.54	129.04	121.50
1	lb	74	ASN	CA-C-N	7.54	130.69	120.44
1	lb	74	ASN	C-N-CA	7.54	130.69	120.44
1	5b	221	VAL	N-CA-C	7.54	119.11	108.93
1	86	229	ARG	CA-C-O	7.54	128.41	120.42
1	8z	5	ASN	N-CA-C	7.54	120.90	110.35
1	99	2	ILE	CB-CA-C	7.54	121.09	110.84
1	9h	37	ILE	O-C-N	-7.54	112.51	121.10
1	bM	226	HIS	CE1-NE2-CD2	-7.54	101.46	109.00
1	cP	100	ARG	NE-CZ-NH2	-7.54	112.42	119.20
1	cS	200	THR	CA-C-N	7.54	130.06	120.56
1	cS	200	THR	C-N-CA	7.54	130.06	120.56
1	d6	98	GLU	CA-C-O	-7.54	112.26	119.80
1	dI	75	GLU	CA-C-N	7.54	130.38	120.28
1	dI	75	GLU	C-N-CA	7.54	130.38	120.28
1	ez	37	ILE	CA-C-N	7.54	129.26	119.84
1	ez	37	ILE	C-N-CA	7.54	129.26	119.84
1	f4	212	GLU	CA-C-N	7.54	130.24	120.44
1	f4	212	GLU	C-N-CA	7.54	130.24	120.44
1	fb	129	ILE	N-CA-C	7.54	118.27	110.36
1	ft	139	ASN	OD1-CG-ND2	-7.54	115.06	122.60
1	H	169	TYR	N-CA-C	7.54	119.58	111.36
1	gw	40	PHE	CA-CB-CG	-7.54	106.27	113.80
1	1H	162	ARG	NE-CZ-NH1	7.54	129.04	121.50
1	h9	55	MET	CA-C-O	-7.54	112.84	120.90
1	ht	48	THR	O-C-N	-7.54	113.09	121.53
1	1K	199	LYS	N-CA-C	7.54	120.38	111.71
1	jG	95	GLN	OE1-CD-NE2	-7.54	115.06	122.60
1	jV	37	ILE	CA-C-O	7.54	123.74	118.69
1	24	226	HIS	N-CA-C	7.54	121.32	110.24
1	l0	35	GLU	N-CA-C	7.54	119.49	111.28
1	lk	37	ILE	N-CA-CB	7.54	116.33	110.45
1	lk	55	MET	N-CA-C	7.54	119.49	111.28
1	2k	200	THR	N-CA-C	7.54	119.49	111.28
1	2p	37	ILE	O-C-N	-7.54	115.60	120.42
1	2E	168	PHE	O-C-N	-7.54	114.25	122.09
1	2L	139	ASN	CA-CB-CG	7.54	120.14	112.60
1	3Z	172	LEU	CA-C-O	-7.54	112.43	120.42
1	5q	213	GLU	N-CA-C	7.54	120.38	111.71
1	5V	205	LEU	CA-C-O	7.54	128.73	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	168	PHE	N-CA-C	7.54	119.13	111.07
1	7y	220	GLY	N-CA-C	-7.54	104.97	113.79
1	7S	81	ASP	CA-C-N	7.54	130.71	120.38
1	7S	81	ASP	C-N-CA	7.54	130.71	120.38
1	85	194	ALA	CA-C-N	7.54	132.13	120.60
1	85	194	ALA	C-N-CA	7.54	132.13	120.60
1	8z	149	SER	O-C-N	-7.54	113.38	123.10
1	8B	69	LEU	CB-CA-C	7.54	122.71	110.88
1	8R	62	HIS	ND1-CE1-NE2	7.54	115.94	108.40
1	9j	18	ARG	NE-CZ-NH2	-7.54	112.42	119.20
1	9X	139	ASN	CA-C-N	7.54	130.70	120.38
1	9X	139	ASN	C-N-CA	7.54	130.70	120.38
1	11	127	GLY	CA-C-N	7.54	130.99	120.29
1	11	127	GLY	C-N-CA	7.54	130.99	120.29
1	12	142	VAL	N-CA-CB	7.54	120.21	110.57
1	bA	12	HIS	CE1-NE2-CD2	-7.54	101.47	109.00
1	ci	100	ARG	NE-CZ-NH1	-7.54	113.96	121.50
1	cl	110	THR	CA-CB-OG1	7.54	120.90	109.60
1	cH	135	ILE	N-CA-CB	7.54	120.79	110.54
1	dy	2	ILE	CA-C-N	7.54	131.23	120.98
1	dy	2	ILE	C-N-CA	7.54	131.23	120.98
1	dW	82	ARG	N-CA-C	7.54	119.13	111.07
1	f1	140	LYS	CA-C-N	7.54	130.05	120.56
1	f1	140	LYS	C-N-CA	7.54	130.05	120.56
1	fl	29	GLU	N-CA-CB	-7.54	98.98	110.13
1	j	53	ASN	CA-CB-CG	-7.54	105.06	112.60
1	C	53	ASN	CA-CB-CG	-7.54	105.06	112.60
1	gx	82	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	1J	83	LEU	N-CA-C	7.53	119.49	111.28
1	hE	162	ARG	CA-C-N	7.53	130.38	120.28
1	hE	162	ARG	C-N-CA	7.53	130.38	120.28
1	id	103	ASP	CA-C-N	7.53	131.12	120.42
1	id	103	ASP	C-N-CA	7.53	131.12	120.42
1	ip	155	GLN	N-CA-C	7.53	122.30	110.17
1	iG	51	ASP	CA-C-O	7.53	128.73	120.82
1	jA	182	LYS	CA-C-N	7.53	130.71	120.54
1	jA	182	LYS	C-N-CA	7.53	130.71	120.54
1	jK	181	VAL	CA-C-O	-7.53	113.11	120.95
1	kr	61	GLY	O-C-N	-7.53	115.01	122.77
1	lg	181	VAL	CA-C-N	7.53	130.23	120.44
1	lg	181	VAL	C-N-CA	7.53	130.23	120.44
1	2p	164	TYR	N-CA-C	7.53	119.13	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2F	114	GLN	N-CA-C	7.53	119.13	111.07
1	30	73	ILE	CA-C-N	7.53	130.71	120.54
1	30	73	ILE	C-N-CA	7.53	130.71	120.54
1	3a	87	HIS	ND1-CE1-NE2	7.53	115.93	108.40
1	3R	130	TYR	CA-C-N	7.53	130.37	120.28
1	3R	130	TYR	C-N-CA	7.53	130.37	120.28
1	4a	84	HIS	CA-CB-CG	-7.53	106.27	113.80
1	4z	177	ALA	N-CA-C	7.53	121.16	110.23
1	4S	189	LEU	CA-C-O	7.53	128.53	120.55
1	53	2	ILE	O-C-N	-7.53	114.78	122.54
1	62	146	SER	CA-C-N	7.53	127.70	119.87
1	62	146	SER	C-N-CA	7.53	127.70	119.87
1	8d	224	PRO	N-CA-C	7.53	123.05	111.15
1	8t	62	HIS	CA-CB-CG	-7.53	106.27	113.80
1	9u	198	CYS	CA-C-N	7.53	130.38	120.28
1	9u	198	CYS	C-N-CA	7.53	130.38	120.28
1	9w	225	GLY	O-C-N	-7.53	114.09	122.60
1	9A	78	ALA	N-CA-C	7.53	119.49	111.28
1	9D	68	MET	CA-C-N	7.53	130.69	120.44
1	9D	68	MET	C-N-CA	7.53	130.69	120.44
1	b0	82	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	18	139	ASN	CA-CB-CG	-7.53	105.07	112.60
1	cv	134	ILE	O-C-N	-7.53	114.56	121.87
1	d4	79	GLU	CA-C-N	7.53	130.23	120.44
1	d4	79	GLU	C-N-CA	7.53	130.23	120.44
1	d4	187	GLU	N-CA-C	7.53	120.37	111.71
1	dP	158	LYS	O-C-N	-7.53	111.71	122.41
1	dR	191	VAL	CA-C-N	7.53	130.71	120.54
1	dR	191	VAL	C-N-CA	7.53	130.71	120.54
1	fh	63	GLN	CB-CA-C	7.53	122.71	110.88
1	fG	63	GLN	N-CA-C	7.53	119.49	111.28
1	fQ	162	ARG	NE-CZ-NH2	-7.53	112.42	119.20
1	fX	163	ASP	N-CA-CB	-7.53	99.15	110.07
1	h8	190	LEU	CA-C-N	7.53	130.78	120.46
1	h8	190	LEU	C-N-CA	7.53	130.78	120.46
1	jh	146	SER	CA-C-O	-7.53	112.71	120.02
1	jL	28	GLU	N-CA-C	7.53	119.13	111.07
1	lu	149	SER	N-CA-C	7.53	120.03	110.24
1	2b	62	HIS	N-CA-C	7.53	121.91	111.74
1	65	92	GLU	N-CA-C	7.53	118.26	109.60
1	72	62	HIS	ND1-CG-CD2	7.53	113.63	106.10
1	73	195	ASN	CA-C-N	7.53	129.25	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	195	ASN	C-N-CA	7.53	129.25	119.84
1	8L	167	ARG	NH1-CZ-NH2	7.53	129.09	119.30
1	a7	155	GLN	N-CA-C	7.53	121.15	110.23
1	aM	166	ASP	O-C-N	7.53	129.92	122.09
1	bk	203	LYS	O-C-N	-7.53	114.14	122.12
1	cR	143	ARG	CA-C-N	7.53	130.37	120.28
1	cR	143	ARG	C-N-CA	7.53	130.37	120.28
1	dB	229	ARG	CA-C-N	7.53	130.59	120.50
1	dB	229	ARG	C-N-CA	7.53	130.59	120.50
1	dK	139	ASN	O-C-N	-7.53	114.26	122.09
1	dL	11	VAL	O-C-N	-7.53	114.09	122.83
1	e2	226	HIS	ND1-CE1-NE2	7.53	115.93	108.40
1	f8	65	ALA	N-CA-C	7.53	119.28	111.14
1	fC	125	PRO	CA-C-N	7.53	131.15	120.53
1	fC	125	PRO	C-N-CA	7.53	131.15	120.53
1	gn	86	VAL	CA-C-O	7.53	130.19	120.78
1	gu	149	SER	CA-C-N	7.53	131.15	120.53
1	gu	149	SER	C-N-CA	7.53	131.15	120.53
1	gJ	150	ILE	N-CA-CB	7.53	119.88	110.47
1	hR	200	THR	N-CA-C	7.53	119.49	111.28
1	iW	170	LYS	CA-C-N	7.53	130.23	120.44
1	iW	170	LYS	C-N-CA	7.53	130.23	120.44
1	iX	36	VAL	N-CA-C	7.53	118.30	110.62
1	1U	162	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	jg	141	ILE	O-C-N	-7.53	114.57	121.87
1	ji	151	LEU	CA-C-N	7.53	130.98	120.29
1	ji	151	LEU	C-N-CA	7.53	130.98	120.29
1	l6	55	MET	N-CA-C	7.53	119.49	111.28
1	li	19	THR	O-C-N	-7.53	113.57	122.15
1	ll	128	GLU	CA-C-N	7.53	130.64	120.77
1	ll	128	GLU	C-N-CA	7.53	130.64	120.77
1	lt	72	THR	N-CA-C	7.53	120.15	111.11
1	2e	166	ASP	O-C-N	-7.53	114.02	122.08
1	2C	36	VAL	O-C-N	-7.53	114.57	121.87
1	3v	74	ASN	CA-CB-CG	7.53	120.13	112.60
1	3N	82	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	4K	199	LYS	CA-C-N	7.53	130.98	120.29
1	4K	199	LYS	C-N-CA	7.53	130.98	120.29
1	5u	87	HIS	CA-CB-CG	7.53	121.33	113.80
1	6E	65	ALA	N-CA-C	7.53	119.13	111.07
1	76	62	HIS	ND1-CE1-NE2	7.53	115.93	108.40
1	7g	117	TRP	N-CA-C	7.53	120.44	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	48	THR	N-CA-C	-7.53	101.47	110.13
1	9M	114	GLN	O-C-N	-7.53	114.14	122.12
1	b2	100	ARG	CA-C-N	7.53	128.30	119.94
1	b2	100	ARG	C-N-CA	7.53	128.30	119.94
1	bm	47	ALA	N-CA-C	7.53	121.15	110.23
1	bI	164	TYR	O-C-N	-7.53	114.31	122.07
1	c8	100	ARG	CA-C-N	7.53	128.34	119.98
1	c8	100	ARG	C-N-CA	7.53	128.34	119.98
1	cw	195	ASN	CA-C-N	7.53	127.06	118.85
1	cw	195	ASN	C-N-CA	7.53	127.06	118.85
1	du	217	ALA	CA-C-O	7.53	128.53	120.55
1	1v	86	VAL	O-C-N	-7.53	115.05	123.18
1	fS	76	GLU	N-CA-C	7.53	120.15	111.11
1	i	19	THR	CA-C-N	7.53	130.23	120.44
1	i	19	THR	C-N-CA	7.53	130.23	120.44
1	gD	193	ASN	CA-CB-CG	7.53	120.13	112.60
1	hg	39	MET	CA-C-O	-7.53	112.91	120.82
1	ii	110	THR	CA-C-N	7.53	131.37	120.38
1	ii	110	THR	C-N-CA	7.53	131.37	120.38
1	j2	67	GLN	OE1-CD-NE2	-7.53	115.07	122.60
1	jQ	227	LYS	N-CA-C	7.53	119.13	111.07
1	lj	23	TRP	N-CA-C	7.53	119.49	111.28
1	2o	82	ARG	NE-CZ-NH2	7.53	125.98	119.20
1	3I	5	ASN	CA-CB-CG	7.53	120.13	112.60
1	3U	140	LYS	CA-C-N	7.53	130.05	120.56
1	3U	140	LYS	C-N-CA	7.53	130.05	120.56
1	5K	183	ASN	OD1-CG-ND2	7.53	130.13	122.60
1	6Z	214	MET	N-CA-C	7.53	119.13	111.07
1	74	113	GLU	CA-C-N	7.53	130.69	120.38
1	74	113	GLU	C-N-CA	7.53	130.69	120.38
1	9o	78	ALA	N-CA-C	7.53	120.14	111.11
1	aD	162	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	bn	5	ASN	CA-CB-CG	7.53	120.13	112.60
1	cG	229	ARG	NH1-CZ-NH2	-7.53	109.51	119.30
1	gg	179	GLN	CA-C-N	7.53	130.68	120.44
1	gg	179	GLN	C-N-CA	7.53	130.68	120.44
1	gX	144	MET	N-CA-C	7.53	119.12	111.07
1	hw	5	ASN	CA-CB-CG	-7.53	105.07	112.60
1	1X	5	ASN	CA-C-N	7.53	133.15	122.08
1	1X	5	ASN	C-N-CA	7.53	133.15	122.08
1	jG	26	VAL	CA-C-O	7.53	128.78	120.95
1	jT	20	LEU	CA-C-O	7.53	128.40	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k5	167	ARG	NE-CZ-NH2	-7.53	112.43	119.20
1	ka	201	ILE	CA-C-N	7.53	130.37	120.28
1	ka	201	ILE	C-N-CA	7.53	130.37	120.28
1	kN	182	LYS	N-CA-C	7.53	119.12	111.07
1	kW	51	ASP	CA-C-N	7.53	130.23	120.44
1	kW	51	ASP	C-N-CA	7.53	130.23	120.44
1	3N	133	TRP	CA-CB-CG	7.53	127.90	113.60
1	3W	33	SER	CA-C-O	-7.53	111.90	120.03
1	5r	127	GLY	CA-C-O	7.53	128.64	120.66
1	63	173	ARG	NE-CZ-NH1	7.53	129.03	121.50
1	6n	91	ILE	CB-CA-C	7.53	122.89	111.68
1	6V	32	PHE	CA-CB-CG	-7.53	106.27	113.80
1	7k	82	ARG	N-CA-C	7.53	119.49	111.28
1	90	178	SER	N-CA-C	7.53	120.59	110.35
1	9q	154	ARG	CA-C-N	7.53	132.80	122.19
1	9q	154	ARG	C-N-CA	7.53	132.80	122.19
1	a4	228	ALA	N-CA-C	7.53	121.78	111.17
1	bB	158	LYS	CA-C-O	7.53	127.54	119.03
1	dC	204	ALA	N-CA-C	7.53	119.57	111.36
1	eR	198	CYS	O-C-N	-7.53	114.32	122.07
1	fu	113	GLU	N-CA-C	7.53	119.48	111.28
1	fD	80	TRP	CA-C-O	-7.53	112.44	120.42
1	fT	26	VAL	CA-C-N	7.53	130.04	120.56
1	fT	26	VAL	C-N-CA	7.53	130.04	120.56
1	b	33	SER	CA-C-O	-7.53	113.19	120.64
1	k	227	LYS	CA-C-N	7.53	135.92	121.54
1	k	227	LYS	C-N-CA	7.53	135.92	121.54
1	1F	126	VAL	CA-C-O	-7.53	113.12	120.95
1	gP	162	ARG	NH1-CZ-NH2	-7.53	109.52	119.30
1	h5	185	MET	CG-SD-CE	-7.53	84.34	100.90
1	hc	71	GLU	CA-C-N	7.53	130.37	120.28
1	hc	71	GLU	C-N-CA	7.53	130.37	120.28
1	ip	55	MET	CG-SD-CE	-7.53	84.35	100.90
1	ix	73	ILE	O-C-N	7.53	129.28	121.91
1	1Q	204	ALA	N-CA-C	7.53	120.55	111.82
1	iI	83	LEU	O-C-N	-7.53	113.01	122.27
1	iL	179	GLN	CA-C-N	7.53	130.70	120.54
1	iL	179	GLN	C-N-CA	7.53	130.70	120.54
1	kP	80	TRP	N-CA-C	7.53	120.36	111.71
1	kZ	128	GLU	CA-C-N	7.53	131.14	120.53
1	kZ	128	GLU	C-N-CA	7.53	131.14	120.53
1	26	136	LEU	CA-C-O	7.53	128.53	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lm	96	MET	CA-C-O	7.53	128.49	120.36
1	3K	14	ALA	N-CA-C	7.53	120.02	110.24
1	4a	23	TRP	CA-C-N	7.53	131.11	120.42
1	4a	23	TRP	C-N-CA	7.53	131.11	120.42
1	4d	27	VAL	O-C-N	-7.53	114.53	121.91
1	4d	143	ARG	N-CA-C	7.53	119.12	111.07
1	5a	21	ASN	N-CA-C	7.53	120.44	111.33
1	5r	141	ILE	CA-C-N	7.53	130.77	120.46
1	5r	141	ILE	C-N-CA	7.53	130.77	120.46
1	5z	187	GLU	N-CA-C	7.53	119.48	111.28
1	5O	24	VAL	O-C-N	-7.53	114.57	121.87
1	68	89	GLY	CA-C-N	7.53	127.45	119.85
1	68	89	GLY	C-N-CA	7.53	127.45	119.85
1	6c	23	TRP	CA-C-N	7.53	130.04	120.56
1	6c	23	TRP	C-N-CA	7.53	130.04	120.56
1	94	161	PHE	N-CA-C	-7.53	103.02	111.07
1	9N	44	SER	O-C-N	-7.53	113.31	122.34
1	9Z	134	ILE	N-CA-C	7.53	117.61	110.53
1	bm	36	VAL	O-C-N	7.53	129.47	121.87
1	c4	63	GLN	N-CA-C	7.53	119.48	111.28
1	c9	146	SER	N-CA-C	7.53	119.20	109.64
1	d4	126	VAL	N-CA-C	7.53	118.30	110.62
1	dG	185	MET	CA-C-N	7.53	130.22	120.44
1	dG	185	MET	C-N-CA	7.53	130.22	120.44
1	dJ	4	GLN	CA-C-O	7.53	129.53	121.55
1	en	191	VAL	CA-C-N	7.53	130.36	120.28
1	en	191	VAL	C-N-CA	7.53	130.36	120.28
1	eu	183	ASN	CA-C-N	7.53	130.37	120.28
1	eu	183	ASN	C-N-CA	7.53	130.37	120.28
1	ex	214	MET	N-CA-C	7.53	119.48	111.28
1	eO	126	VAL	CA-C-O	-7.53	113.12	120.95
1	eP	7	GLN	CG-CD-NE2	7.53	127.69	116.40
1	fi	186	THR	O-C-N	-7.53	114.32	122.07
1	fn	141	ILE	N-CA-C	7.53	118.26	110.36
1	gl	132	ARG	N-CA-C	7.52	119.48	111.28
1	hW	195	ASN	CA-C-N	7.52	129.25	119.84
1	hW	195	ASN	C-N-CA	7.52	129.25	119.84
1	ij	159	GLU	N-CA-C	7.52	119.39	109.83
1	j3	195	ASN	OD1-CG-ND2	-7.52	115.08	122.60
1	ll	18	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	2C	161	PHE	CA-C-N	7.52	130.36	120.28
1	2C	161	PHE	C-N-CA	7.52	130.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3y	116	GLY	O-C-N	-7.52	114.96	122.18
1	4I	66	MET	N-CA-C	7.52	120.43	111.33
1	4O	70	LYS	N-CA-C	7.52	120.55	111.82
1	an	196	PRO	CA-C-N	7.52	131.12	120.28
1	an	196	PRO	C-N-CA	7.52	131.12	120.28
1	aN	149	SER	N-CA-C	7.52	121.31	110.10
1	ba	25	LYS	CA-C-N	7.52	130.04	120.56
1	ba	25	LYS	C-N-CA	7.52	130.04	120.56
1	cK	143	ARG	CA-C-N	7.52	130.22	120.44
1	cK	143	ARG	C-N-CA	7.52	130.22	120.44
1	d4	141	ILE	CA-C-N	7.52	130.77	120.46
1	d4	141	ILE	C-N-CA	7.52	130.77	120.46
1	gF	18	ARG	NH1-CZ-NH2	-7.52	109.52	119.30
1	gT	143	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	i7	176	GLN	CA-C-N	7.52	132.15	121.02
1	i7	176	GLN	C-N-CA	7.52	132.15	121.02
1	ix	201	ILE	CA-C-N	7.52	130.36	120.28
1	ix	201	ILE	C-N-CA	7.52	130.36	120.28
1	iX	142	VAL	N-CA-C	7.52	117.64	110.42
1	jZ	83	LEU	N-CA-C	7.52	119.12	111.07
1	k2	21	ASN	N-CA-C	7.52	119.48	111.28
1	l3	229	ARG	CA-C-N	7.52	131.21	120.98
1	l3	229	ARG	C-N-CA	7.52	131.21	120.98
1	lj	159	GLU	O-C-N	7.52	130.48	121.60
1	2j	99	PRO	N-CA-C	7.52	123.07	111.11
1	34	100	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	4E	2	ILE	O-C-N	-7.52	114.70	123.05
1	50	134	ILE	CA-C-N	7.52	130.77	120.46
1	50	134	ILE	C-N-CA	7.52	130.77	120.46
1	5H	11	VAL	N-CA-CB	-7.52	103.76	112.34
1	5N	13	GLN	CA-C-N	7.52	131.81	121.05
1	5N	13	GLN	C-N-CA	7.52	131.81	121.05
1	6S	26	VAL	N-CA-C	7.52	117.64	110.42
1	7h	92	GLU	N-CA-C	7.52	122.98	112.75
1	ab	201	ILE	CB-CA-C	-7.52	102.16	112.24
1	ax	3	VAL	CB-CA-C	7.52	121.77	110.63
1	bj	6	LEU	N-CA-C	7.52	120.58	110.35
1	d7	189	LEU	N-CA-C	7.52	119.56	111.36
1	db	156	GLY	O-C-N	-7.52	114.25	121.77
1	dj	160	PRO	O-C-N	-7.52	112.48	122.64
1	eh	211	LEU	N-CA-C	7.52	119.48	111.28
1	eM	104	ILE	N-CA-C	7.52	118.29	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fW	178	SER	CA-C-N	7.52	130.36	120.28
1	fW	178	SER	C-N-CA	7.52	130.36	120.28
1	0	5	ASN	CA-CB-CG	7.52	120.12	112.60
1	c	12	HIS	CG-CD2-NE2	7.52	114.72	107.20
1	s	69	LEU	O-C-N	-7.52	114.21	122.03
1	ht	197	ASP	O-C-N	-7.52	113.97	122.09
1	k5	177	ALA	O-C-N	-7.52	114.28	122.85
1	kR	81	ASP	CA-C-O	-7.52	112.58	120.55
1	lz	84	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
1	46	40	PHE	O-C-N	-7.52	114.15	122.12
1	5H	179	GLN	CG-CD-NE2	7.52	127.68	116.40
1	6W	211	LEU	CA-C-N	7.52	130.36	120.28
1	6W	211	LEU	C-N-CA	7.52	130.36	120.28
1	7u	39	MET	O-C-N	-7.52	114.32	122.07
1	8T	73	ILE	CA-C-O	7.52	129.14	121.17
1	9t	102	SER	CA-C-O	7.52	128.52	120.55
1	9F	17	PRO	CA-C-N	7.52	130.36	120.28
1	9F	17	PRO	C-N-CA	7.52	130.36	120.28
1	cD	12	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
1	cD	212	GLU	N-CA-C	7.52	119.48	111.28
1	ep	62	HIS	N-CA-C	7.52	121.77	111.54
1	fh	94	GLY	N-CA-C	-7.52	103.14	112.77
1	R	146	SER	CA-C-N	7.52	129.24	119.84
1	R	146	SER	C-N-CA	7.52	129.24	119.84
1	gb	215	MET	CG-SD-CE	-7.52	84.36	100.90
1	ge	83	LEU	N-CA-C	7.52	120.36	111.71
1	1D	37	ILE	O-C-N	-7.52	114.73	120.07
1	ha	124	ILE	O-C-N	-7.52	116.21	121.55
1	j2	5	ASN	CA-C-O	7.52	127.32	119.05
1	jc	165	VAL	CA-C-N	7.52	131.24	120.79
1	jc	165	VAL	C-N-CA	7.52	131.24	120.79
1	jd	12	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
1	kp	101	GLY	CA-C-O	7.52	128.57	120.30
1	ll	66	MET	N-CA-C	7.52	120.13	111.11
1	lA	21	ASN	N-CA-C	7.52	119.48	111.28
1	2n	203	LYS	CA-C-N	7.52	130.21	120.44
1	2n	203	LYS	C-N-CA	7.52	130.21	120.44
1	2G	192	GLN	N-CA-C	7.52	120.36	111.71
1	2T	40	PHE	O-C-N	-7.52	114.27	122.09
1	2Y	210	THR	CA-C-N	7.52	130.35	120.28
1	2Y	210	THR	C-N-CA	7.52	130.35	120.28
1	41	132	ARG	NE-CZ-NH2	-7.52	112.43	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4l	148	THR	CA-C-O	7.52	129.78	121.06
1	6o	5	ASN	CB-CA-C	-7.52	99.02	110.90
1	6O	93	PRO	N-CA-CB	-7.52	95.36	103.25
1	74	89	GLY	O-C-N	-7.52	114.25	121.77
1	7E	190	LEU	CA-C-N	7.52	130.03	120.56
1	7E	190	LEU	C-N-CA	7.52	130.03	120.56
1	84	43	LEU	N-CA-C	7.52	120.36	111.71
1	8n	170	LYS	CA-C-N	7.52	130.22	120.44
1	8n	170	LYS	C-N-CA	7.52	130.22	120.44
1	8s	156	GLY	CA-C-N	7.52	129.24	119.84
1	8s	156	GLY	C-N-CA	7.52	129.24	119.84
1	90	53	ASN	CA-C-O	7.52	128.52	120.55
1	96	229	ARG	NE-CZ-NH2	-7.52	112.43	119.20
1	9j	27	VAL	CA-C-O	-7.52	113.13	120.95
1	9N	78	ALA	N-CA-C	7.52	120.13	111.11
1	ap	36	VAL	N-CA-C	7.52	119.19	110.62
1	av	194	ALA	N-CA-C	7.52	120.28	110.43
1	aQ	51	ASP	O-C-N	-7.52	114.33	122.07
1	15	87	HIS	CA-CB-CG	-7.52	106.28	113.80
1	bc	159	GLU	N-CA-CB	-7.52	100.38	110.23
1	c6	184	TRP	O-C-N	-7.52	113.63	122.20
1	ca	63	GLN	OE1-CD-NE2	-7.52	115.08	122.60
1	cr	28	GLU	N-CA-CB	-7.52	99.03	110.16
1	cT	173	ARG	CA-C-O	-7.52	112.51	120.63
1	J	37	ILE	CA-C-N	7.52	129.24	119.84
1	J	37	ILE	C-N-CA	7.52	129.24	119.84
1	N	139	ASN	O-C-N	-7.52	114.15	122.12
1	gG	33	SER	CB-CA-C	-7.52	98.04	108.86
1	gJ	100	ARG	NE-CZ-NH2	7.52	125.97	119.20
1	gO	146	SER	N-CA-C	7.52	123.90	113.45
1	gZ	223	GLY	O-C-N	-7.52	114.25	121.77
1	1M	197	ASP	CA-CB-CG	-7.52	105.08	112.60
1	ih	44	SER	N-CA-C	7.52	120.43	111.33
1	ij	226	HIS	ND1-CE1-NE2	7.52	115.92	108.40
1	in	21	ASN	CA-CB-CG	7.52	120.12	112.60
1	iw	126	VAL	O-C-N	7.52	129.46	121.87
1	iV	80	TRP	CA-C-N	7.52	130.68	120.38
1	iV	80	TRP	C-N-CA	7.52	130.68	120.38
1	jS	57	ASN	CA-C-N	7.52	131.10	120.28
1	jS	57	ASN	C-N-CA	7.52	131.10	120.28
1	kg	154	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	ld	121	ASN	CA-C-O	-7.52	112.55	119.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	139	ASN	O-C-N	-7.52	114.33	122.07
1	2e	193	ASN	OD1-CG-ND2	-7.52	115.08	122.60
1	2A	135	ILE	N-CA-C	7.52	117.64	110.42
1	32	110	THR	N-CA-C	7.52	120.28	110.43
1	3F	135	ILE	N-CA-C	7.52	119.19	110.62
1	43	176	GLN	N-CA-C	7.52	122.31	111.56
1	4R	84	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
1	5d	152	ASP	CA-C-N	7.52	132.59	121.77
1	5d	152	ASP	C-N-CA	7.52	132.59	121.77
1	5A	98	GLU	O-C-N	-7.52	113.45	121.42
1	6m	85	PRO	CA-C-N	7.52	131.36	120.91
1	6m	85	PRO	C-N-CA	7.52	131.36	120.91
1	7j	133	TRP	N-CA-CB	7.52	121.17	110.12
1	7w	159	GLU	CA-C-N	7.52	127.57	119.90
1	7w	159	GLU	C-N-CA	7.52	127.57	119.90
1	7C	193	ASN	OD1-CG-ND2	-7.52	115.08	122.60
1	8F	182	LYS	N-CA-C	7.52	119.11	111.07
1	9a	163	ASP	CA-CB-CG	7.52	120.12	112.60
1	9c	121	ASN	CA-CB-CG	7.52	120.12	112.60
1	9e	229	ARG	NE-CZ-NH2	7.52	125.97	119.20
1	9C	97	ARG	NE-CZ-NH2	-7.52	112.43	119.20
1	9O	178	SER	N-CA-CB	7.52	121.19	110.44
1	aP	195	ASN	CA-C-N	7.52	127.06	119.24
1	aP	195	ASN	C-N-CA	7.52	127.06	119.24
1	aU	212	GLU	N-CA-C	7.52	119.11	111.07
1	b4	215	MET	N-CA-C	7.52	119.47	111.28
1	bl	23	TRP	CA-C-N	7.52	130.03	120.56
1	bl	23	TRP	C-N-CA	7.52	130.03	120.56
1	c7	173	ARG	NE-CZ-NH1	7.52	129.02	121.50
1	cC	191	VAL	O-C-N	-7.52	114.58	121.87
1	d7	82	ARG	N-CA-C	7.52	119.47	111.28
1	dK	156	GLY	O-C-N	-7.52	114.25	121.77
1	dO	74	ASN	CA-C-N	7.52	130.69	120.54
1	dO	74	ASN	C-N-CA	7.52	130.69	120.54
1	h	78	ALA	O-C-N	-7.52	114.27	122.09
1	jb	167	ARG	O-C-N	-7.52	114.33	122.07
1	jn	194	ALA	CA-C-N	7.52	131.16	120.49
1	jn	194	ALA	C-N-CA	7.52	131.16	120.49
1	kq	84	HIS	CA-CB-CG	-7.52	106.28	113.80
1	ln	89	GLY	CA-C-O	-7.52	110.77	121.52
1	47	62	HIS	CA-CB-CG	-7.52	106.28	113.80
1	5g	82	ARG	NE-CZ-NH2	-7.52	112.44	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	198	CYS	CA-C-O	7.52	128.14	119.35
1	85	90	PRO	CA-C-N	7.52	130.63	120.63
1	85	90	PRO	C-N-CA	7.52	130.63	120.63
1	bI	12	HIS	N-CA-CB	7.52	121.02	109.97
1	bS	181	VAL	O-C-N	-7.52	114.54	121.91
1	c8	95	GLN	CA-C-N	7.52	131.47	120.95
1	c8	95	GLN	C-N-CA	7.52	131.47	120.95
1	d6	68	MET	N-CA-C	7.52	119.47	111.28
1	dR	143	ARG	CA-C-O	-7.52	112.58	120.55
1	e7	16	SER	O-C-N	-7.52	113.56	121.30
1	f	84	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
1	ic	200	THR	CA-C-O	-7.51	112.58	120.55
1	in	108	THR	O-C-N	-7.51	113.32	122.34
1	iB	103	ASP	CA-CB-CG	-7.51	105.09	112.60
1	j6	169	TYR	N-CA-C	7.51	120.54	111.82
1	j6	184	TRP	N-CA-C	7.51	119.47	111.28
1	jp	104	ILE	CB-CA-C	7.51	122.28	112.14
1	l4	37	ILE	O-C-N	-7.51	115.61	120.42
1	lR	16	SER	CA-C-N	7.51	128.19	119.47
1	lR	16	SER	C-N-CA	7.51	128.19	119.47
1	2s	199	LYS	O-C-N	-7.51	113.03	122.27
1	2B	140	LYS	CA-C-N	7.51	130.75	120.46
1	2B	140	LYS	C-N-CA	7.51	130.75	120.46
1	36	58	THR	CA-CB-CG2	7.51	123.27	110.50
1	3f	94	GLY	CA-C-O	7.51	126.86	119.27
1	3z	146	SER	CA-C-N	7.51	127.52	119.78
1	3z	146	SER	C-N-CA	7.51	127.52	119.78
1	40	53	ASN	CA-CB-CG	-7.51	105.08	112.60
1	4u	33	SER	CB-CA-C	-7.51	101.51	110.15
1	4G	93	PRO	N-CA-C	7.51	123.02	111.15
1	7J	167	ARG	N-CA-C	7.51	119.11	111.07
1	7W	53	ASN	OD1-CG-ND2	-7.51	115.09	122.60
1	9c	100	ARG	N-CA-C	7.51	120.03	110.33
1	9N	229	ARG	N-CA-C	7.51	121.12	110.23
1	aj	161	PHE	O-C-N	-7.51	114.16	122.12
1	14	68	MET	O-C-N	-7.51	114.15	122.12
1	bd	88	ALA	O-C-N	-7.51	114.04	122.23
1	bs	169	TYR	CA-C-N	7.51	130.35	120.28
1	bs	169	TYR	C-N-CA	7.51	130.35	120.28
1	bE	166	ASP	CA-CB-CG	7.51	120.11	112.60
1	bU	97	ARG	NE-CZ-NH1	7.51	129.01	121.50
1	c2	22	ALA	N-CA-C	7.51	119.11	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eo	189	LEU	N-CA-C	7.51	119.47	111.28
1	eG	200	THR	N-CA-C	7.51	119.47	111.28
1	f6	50	GLN	N-CA-C	7.51	119.55	111.36
1	fw	80	TRP	N-CA-CB	7.51	121.14	109.94
1	v	201	ILE	N-CA-C	7.51	118.28	110.62
1	3	114	GLN	CA-C-N	7.51	130.03	120.56
1	3	114	GLN	C-N-CA	7.51	130.03	120.56
1	8	84	HIS	ND1-CE1-NE2	7.51	115.91	108.40
1	ho	77	ALA	N-CA-C	7.51	119.47	111.28
1	iH	173	ARG	N-CA-C	7.51	120.42	111.33
1	j0	146	SER	O-C-N	-7.51	113.98	121.27
1	k0	46	GLY	CA-C-N	7.51	131.79	121.05
1	k0	46	GLY	C-N-CA	7.51	131.79	121.05
1	lj	161	PHE	CA-C-O	-7.51	111.61	120.10
1	2j	194	ALA	CA-C-N	7.51	133.34	121.17
1	2j	194	ALA	C-N-CA	7.51	133.34	121.17
1	49	86	VAL	N-CA-C	7.51	120.45	109.63
1	4j	195	ASN	CA-CB-CG	7.51	120.11	112.60
1	61	54	THR	CA-C-N	7.51	130.96	120.29
1	61	54	THR	C-N-CA	7.51	130.96	120.29
1	7p	182	LYS	N-CA-C	7.51	119.11	111.07
1	9G	82	ARG	NE-CZ-NH1	7.51	129.01	121.50
1	9P	79	GLU	CA-C-O	7.51	128.51	120.55
1	bm	172	LEU	N-CA-C	7.51	121.55	112.38
1	bo	125	PRO	N-CA-C	7.51	126.92	113.70
1	bS	226	HIS	CA-C-N	7.51	130.35	120.28
1	bS	226	HIS	C-N-CA	7.51	130.35	120.28
1	ck	94	GLY	O-C-N	-7.51	113.29	122.23
1	cG	164	TYR	N-CA-C	7.51	119.47	111.28
1	d4	18	ARG	N-CA-CB	7.51	121.17	110.12
1	d4	179	GLN	OE1-CD-NE2	7.51	130.11	122.60
1	dI	150	ILE	O-C-N	-7.51	114.69	122.20
1	1p	136	LEU	N-CA-C	7.51	120.35	111.71
1	gy	1	PRO	CA-C-N	7.51	130.62	120.63
1	gy	1	PRO	C-N-CA	7.51	130.62	120.63
1	gF	16	SER	N-CA-C	7.51	120.28	109.84
1	gV	156	GLY	CA-C-N	7.51	127.23	119.64
1	gV	156	GLY	C-N-CA	7.51	127.23	119.64
1	gW	53	ASN	CA-CB-CG	-7.51	105.09	112.60
1	gZ	62	HIS	ND1-CG-CD2	7.51	113.61	106.10
1	h1	66	MET	N-CA-C	7.51	119.11	111.07
1	1K	135	ILE	CB-CA-C	-7.51	102.36	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	100	ARG	N-CA-C	7.51	119.65	110.41
1	iA	153	ILE	O-C-N	-7.51	115.01	122.67
1	j9	226	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
1	jI	28	GLU	N-CA-C	7.51	119.11	111.07
1	ky	126	VAL	N-CA-C	7.51	119.18	110.62
1	l6	225	GLY	O-C-N	-7.51	114.09	122.28
1	lk	69	LEU	CA-C-N	7.51	130.96	120.29
1	lk	69	LEU	C-N-CA	7.51	130.96	120.29
1	lC	213	GLU	O-C-N	-7.51	114.16	122.12
1	lD	114	GLN	CA-C-N	7.51	130.02	120.56
1	lD	114	GLN	C-N-CA	7.51	130.02	120.56
1	4b	115	ILE	CA-C-N	7.51	128.48	119.99
1	4b	115	ILE	C-N-CA	7.51	128.48	119.99
1	6Y	154	ARG	NH1-CZ-NH2	-7.51	109.54	119.30
1	76	224	PRO	N-CA-CB	7.51	109.63	103.32
1	7H	67	GLN	OE1-CD-NE2	-7.51	115.09	122.60
1	7V	141	ILE	N-CA-C	7.51	117.63	110.42
1	82	84	HIS	CA-C-N	7.51	127.97	119.93
1	82	84	HIS	C-N-CA	7.51	127.97	119.93
1	8R	82	ARG	NH1-CZ-NH2	-7.51	109.54	119.30
1	8S	144	MET	N-CA-C	7.51	119.11	111.07
1	9r	199	LYS	N-CA-C	7.51	119.47	111.28
1	a3	53	ASN	OD1-CG-ND2	-7.51	115.09	122.60
1	am	214	MET	O-C-N	-7.51	114.16	122.12
1	aI	120	HIS	N-CA-C	7.51	120.56	110.35
1	b3	154	ARG	NH1-CZ-NH2	-7.51	109.53	119.30
1	bf	5	ASN	OD1-CG-ND2	-7.51	115.09	122.60
1	bW	72	THR	CA-C-N	7.51	130.02	120.56
1	bW	72	THR	C-N-CA	7.51	130.02	120.56
1	co	192	GLN	OE1-CD-NE2	-7.51	115.09	122.60
1	el	61	GLY	CA-C-N	7.51	133.05	122.46
1	el	61	GLY	C-N-CA	7.51	133.05	122.46
1	eE	92	GLU	N-CA-C	7.51	118.24	109.60
1	f7	194	ALA	O-C-N	-7.51	113.63	122.87
1	g1	50	GLN	N-CA-C	7.51	120.19	111.02
1	v	95	GLN	CA-C-N	7.51	132.09	120.75
1	v	95	GLN	C-N-CA	7.51	132.09	120.75
1	gs	92	GLU	CA-C-N	7.51	127.97	119.93
1	gs	92	GLU	C-N-CA	7.51	127.97	119.93
1	gx	219	GLN	OE1-CD-NE2	-7.51	115.09	122.60
1	gP	192	GLN	N-CA-C	7.51	119.25	111.14
1	1O	116	GLY	O-C-N	-7.51	114.70	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jC	14	ALA	N-CA-C	7.51	120.00	110.24
1	1X	182	LYS	N-CA-C	-7.51	103.17	111.36
1	l1	178	SER	N-CA-C	7.51	120.56	110.35
1	26	10	MET	CA-C-N	7.51	135.49	121.97
1	26	10	MET	C-N-CA	7.51	135.49	121.97
1	lb	92	GLU	N-CA-C	7.51	118.77	110.13
1	lM	34	PRO	CA-C-N	7.51	131.34	120.38
1	lM	34	PRO	C-N-CA	7.51	131.34	120.38
1	2l	101	GLY	CA-C-N	7.51	130.34	120.28
1	2l	101	GLY	C-N-CA	7.51	130.34	120.28
1	2C	75	GLU	N-CA-C	7.51	120.12	111.11
1	2P	6	LEU	CA-C-N	7.51	131.41	120.82
1	2P	6	LEU	C-N-CA	7.51	131.41	120.82
1	3F	84	HIS	CA-CB-CG	-7.51	106.29	113.80
1	3H	140	LYS	N-CA-C	7.51	120.35	111.71
1	3W	187	GLU	O-C-N	-7.51	113.59	122.15
1	4i	11	VAL	CA-C-N	7.51	131.41	120.82
1	4i	11	VAL	C-N-CA	7.51	131.41	120.82
1	4u	12	HIS	N-CA-C	7.51	121.28	110.24
1	4S	54	THR	O-C-N	-7.51	114.16	122.12
1	55	193	ASN	OD1-CG-ND2	-7.51	115.09	122.60
1	5p	27	VAL	CB-CA-C	-7.51	101.86	112.22
1	5S	132	ARG	NE-CZ-NH2	7.51	125.96	119.20
1	6w	55	MET	CA-C-O	7.51	128.51	120.55
1	6N	200	THR	CA-C-N	7.51	130.17	120.56
1	6N	200	THR	C-N-CA	7.51	130.17	120.56
1	7n	154	ARG	NH1-CZ-NH2	-7.51	109.54	119.30
1	7Q	59	VAL	N-CA-C	7.51	118.25	110.36
1	8k	126	VAL	N-CA-C	7.51	121.53	111.17
1	8q	164	TYR	N-CA-CB	-7.51	99.05	110.16
1	9o	48	THR	N-CA-CB	7.51	121.07	110.11
1	9r	213	GLU	N-CA-C	7.51	120.53	111.82
1	9s	54	THR	N-CA-CB	7.51	121.16	110.12
1	bi	140	LYS	CA-C-N	7.51	130.17	120.56
1	bi	140	LYS	C-N-CA	7.51	130.17	120.56
1	bI	78	ALA	CA-C-N	7.51	130.34	120.28
1	bI	78	ALA	C-N-CA	7.51	130.34	120.28
1	bP	162	ARG	NE-CZ-NH1	7.51	129.01	121.50
1	bR	16	SER	N-CA-C	7.51	119.18	109.64
1	cF	31	ALA	N-CA-C	7.51	121.75	111.39
1	dV	124	ILE	N-CA-C	-7.51	100.72	108.15
1	fq	137	GLY	N-CA-C	7.51	121.73	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	111	LEU	N-CA-C	7.51	120.12	111.11
1	k	200	THR	CA-C-N	7.51	130.02	120.56
1	k	200	THR	C-N-CA	7.51	130.02	120.56
1	9	50	GLN	N-CA-C	7.51	119.47	111.28
1	hh	175	GLU	O-C-N	-7.51	114.79	123.27
1	hQ	5	ASN	CA-CB-CG	7.51	120.11	112.60
1	id	143	ARG	N-CA-C	7.51	119.54	111.36
1	iF	218	CYS	N-CA-CB	7.51	123.18	110.49
1	j8	76	GLU	CA-C-N	7.51	130.34	120.28
1	j8	76	GLU	C-N-CA	7.51	130.34	120.28
1	kb	178	SER	CA-C-N	7.51	130.68	120.54
1	kb	178	SER	C-N-CA	7.51	130.68	120.54
1	kz	162	ARG	N-CA-C	7.51	120.42	111.33
1	kB	12	HIS	O-C-N	-7.51	114.25	123.04
1	29	84	HIS	O-C-N	-7.51	114.71	121.39
1	3Q	122	PRO	CA-C-N	7.51	127.56	119.90
1	3Q	122	PRO	C-N-CA	7.51	127.56	119.90
1	3S	125	PRO	CA-C-N	7.51	130.75	120.46
1	3S	125	PRO	C-N-CA	7.51	130.75	120.46
1	6j	204	ALA	N-CA-C	7.51	119.46	111.28
1	7i	178	SER	CB-CA-C	7.51	121.47	109.61
1	7E	8	GLY	O-C-N	7.51	131.14	123.11
1	b9	166	ASP	CA-CB-CG	-7.51	105.09	112.60
1	ba	124	ILE	O-C-N	-7.51	116.22	121.55
1	dc	27	VAL	N-CA-C	7.51	118.28	110.62
1	dt	214	MET	CA-C-O	7.51	128.61	120.20
1	1z	32	PHE	CA-C-N	7.51	135.37	122.38
1	1z	32	PHE	C-N-CA	7.51	135.37	122.38
1	g0	15	ILE	O-C-N	-7.51	115.01	122.67
1	g3	131	LYS	N-CA-C	7.51	120.42	111.33
1	1C	118	MET	CA-C-N	7.51	134.66	122.65
1	1C	118	MET	C-N-CA	7.51	134.66	122.65
1	h1	162	ARG	N-CA-C	7.51	119.10	111.07
1	h2	48	THR	CA-C-N	7.51	129.22	119.84
1	h2	48	THR	C-N-CA	7.51	129.22	119.84
1	hf	212	GLU	N-CA-CB	7.51	121.15	110.12
1	1I	223	GLY	CA-C-N	7.51	127.27	119.76
1	1I	223	GLY	C-N-CA	7.51	127.27	119.76
1	hO	217	ALA	N-CA-C	7.51	120.69	110.55
1	iA	121	ASN	CB-CA-C	7.51	120.19	110.13
1	iD	146	SER	CA-C-O	-7.51	114.25	120.26
1	ji	197	ASP	N-CA-C	7.51	119.10	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	135	ILE	N-CA-CB	7.51	120.75	110.54
1	jP	166	ASP	CA-CB-CG	-7.51	105.09	112.60
1	k3	20	LEU	N-CA-C	7.51	119.54	111.36
1	kl	146	SER	CA-C-O	-7.51	109.88	120.16
1	kR	230	VAL	CB-CA-C	-7.51	103.04	111.45
1	li	163	ASP	CA-C-N	7.51	130.65	120.44
1	li	163	ASP	C-N-CA	7.51	130.65	120.44
1	lO	61	GLY	CA-C-N	7.51	133.04	122.46
1	lO	61	GLY	C-N-CA	7.51	133.04	122.46
1	2k	50	GLN	N-CA-C	7.51	119.46	111.28
1	2t	7	GLN	CA-C-O	7.51	129.51	120.28
1	3u	124	ILE	O-C-N	-7.51	116.64	121.37
1	3W	71	GLU	CA-C-N	7.51	130.34	120.28
1	3W	71	GLU	C-N-CA	7.51	130.34	120.28
1	4w	97	ARG	NE-CZ-NH2	7.51	125.96	119.20
1	4U	198	CYS	N-CA-C	7.51	120.34	111.71
1	5h	86	VAL	CA-C-O	7.51	128.74	120.48
1	5x	104	ILE	N-CA-CB	7.51	118.84	110.51
1	5E	142	VAL	N-CA-C	7.51	118.04	110.23
1	6u	162	ARG	N-CA-C	7.51	120.34	111.71
1	6B	143	ARG	NE-CZ-NH2	7.51	125.96	119.20
1	6J	191	VAL	O-C-N	-7.51	114.55	121.91
1	6N	170	LYS	CA-C-N	7.51	131.09	120.28
1	6N	170	LYS	C-N-CA	7.51	131.09	120.28
1	7J	202	LEU	N-CA-C	7.51	119.46	111.28
1	7Y	201	ILE	N-CA-C	7.51	118.30	110.72
1	8i	120	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
1	8x	178	SER	N-CA-C	7.51	121.08	110.50
1	a9	160	PRO	CA-C-N	7.51	135.88	121.54
1	a9	160	PRO	C-N-CA	7.51	135.88	121.54
1	aF	46	GLY	O-C-N	7.51	129.77	122.41
1	bJ	76	GLU	N-CA-C	7.51	120.12	111.11
1	bY	195	ASN	CA-C-N	7.51	129.22	119.84
1	bY	195	ASN	C-N-CA	7.51	129.22	119.84
1	cB	126	VAL	CA-C-N	7.51	128.12	119.94
1	cB	126	VAL	C-N-CA	7.51	128.12	119.94
1	cH	35	GLU	CA-C-N	7.51	131.12	120.53
1	cH	35	GLU	C-N-CA	7.51	131.12	120.53
1	cT	166	ASP	CA-CB-CG	7.51	120.11	112.60
1	d8	195	ASN	CA-C-N	7.51	129.22	119.84
1	d8	195	ASN	C-N-CA	7.51	129.22	119.84
1	dh	64	ALA	CA-C-N	7.51	130.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dh	64	ALA	C-N-CA	7.51	130.20	120.44
1	dG	191	VAL	CA-C-N	7.51	130.34	120.28
1	dG	191	VAL	C-N-CA	7.51	130.34	120.28
1	ea	46	GLY	CA-C-N	7.51	131.37	120.71
1	ea	46	GLY	C-N-CA	7.51	131.37	120.71
1	eh	132	ARG	O-C-N	-7.51	114.16	122.12
1	ff	95	GLN	O-C-N	-7.51	114.55	123.03
1	fZ	65	ALA	N-CA-C	7.51	120.12	111.11
1	g4	125	PRO	CA-C-N	7.51	130.74	120.46
1	g4	125	PRO	C-N-CA	7.51	130.74	120.46
1	F	148	THR	N-CA-C	7.51	120.68	110.55
1	H	187	GLU	N-CA-C	7.51	122.73	112.90
1	iL	71	GLU	N-CA-C	7.50	119.46	111.28
1	ka	98	GLU	CB-CA-C	7.50	121.38	109.52
1	3F	94	GLY	CA-C-O	7.50	127.47	119.07
1	3K	178	SER	N-CA-C	7.50	126.79	110.80
1	6f	7	GLN	CA-C-N	7.50	133.92	120.79
1	6f	7	GLN	C-N-CA	7.50	133.92	120.79
1	6J	42	ALA	N-CA-C	7.50	119.46	111.28
1	6V	86	VAL	O-C-N	-7.50	115.09	123.20
1	96	187	GLU	N-CA-CB	-7.50	98.65	110.28
1	9e	143	ARG	NE-CZ-NH2	7.50	125.95	119.20
1	c6	176	GLN	O-C-N	-7.50	114.12	123.05
1	c7	196	PRO	CA-C-N	7.50	130.34	120.28
1	c7	196	PRO	C-N-CA	7.50	130.34	120.28
1	fa	61	GLY	O-C-N	-7.50	113.68	122.91
1	E	7	GLN	CA-C-N	7.50	128.62	120.44
1	E	7	GLN	C-N-CA	7.50	128.62	120.44
1	gg	131	LYS	CA-C-N	7.50	130.34	120.28
1	gg	131	LYS	C-N-CA	7.50	130.34	120.28
1	1D	144	MET	CA-C-O	7.50	128.50	120.55
1	gJ	195	ASN	CA-CB-CG	7.50	120.10	112.60
1	he	156	GLY	O-C-N	-7.50	114.27	121.77
1	1O	114	GLN	N-CA-C	7.50	120.11	111.11
1	iE	18	ARG	CA-C-N	7.50	130.34	120.28
1	iE	18	ARG	C-N-CA	7.50	130.34	120.28
1	iR	5	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	jg	35	GLU	N-CA-C	-7.50	104.13	113.28
1	jR	68	MET	N-CA-C	7.50	119.46	111.28
1	kf	52	LEU	N-CA-C	7.50	119.46	111.28
1	kl	67	GLN	N-CA-C	7.50	119.54	111.36
1	ky	14	ALA	CA-C-N	7.50	130.55	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	14	ALA	C-N-CA	7.50	130.55	120.50
1	kU	184	TRP	CA-C-O	7.50	128.70	120.82
1	26	107	THR	CA-C-O	-7.50	111.91	120.24
1	la	26	VAL	N-CA-C	7.50	118.27	110.62
1	lm	193	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	lH	40	PHE	CA-C-N	7.50	130.19	120.44
1	lH	40	PHE	C-N-CA	7.50	130.19	120.44
1	2B	162	ARG	NE-CZ-NH1	7.50	129.00	121.50
1	2X	32	PHE	CA-C-O	7.50	129.63	120.55
1	5q	195	ASN	CA-C-O	-7.50	112.52	120.70
1	5D	192	GLN	N-CA-C	7.50	119.46	111.28
1	5F	62	HIS	ND1-CG-CD2	7.50	113.60	106.10
1	5L	3	VAL	O-C-N	-7.50	115.16	123.26
1	5V	28	GLU	N-CA-C	7.50	119.54	111.36
1	65	38	PRO	N-CA-C	-7.50	103.35	113.40
1	6G	66	MET	N-CA-C	7.50	120.11	111.11
1	6L	102	SER	N-CA-C	7.50	120.52	111.82
1	7w	136	LEU	N-CA-C	7.50	120.34	111.71
1	8f	128	GLU	N-CA-C	7.50	119.10	111.07
1	9E	171	THR	CA-C-N	7.50	130.94	120.29
1	9E	171	THR	C-N-CA	7.50	130.94	120.29
1	9K	77	ALA	O-C-N	-7.50	114.17	122.12
1	bf	18	ARG	NH1-CZ-NH2	-7.50	109.54	119.30
1	ce	9	GLN	OE1-CD-NE2	-7.50	115.10	122.60
1	cv	159	GLU	CB-CA-C	7.50	121.27	110.02
1	cB	74	ASN	N-CA-C	7.50	119.46	111.28
1	cW	228	ALA	CA-C-O	7.50	128.60	119.97
1	d4	132	ARG	NE-CZ-NH1	7.50	129.00	121.50
1	dk	103	ASP	CA-CB-CG	-7.50	105.10	112.60
1	ds	4	GLN	N-CA-C	-7.50	103.43	112.58
1	eC	199	LYS	CA-C-N	7.50	130.67	120.54
1	eC	199	LYS	C-N-CA	7.50	130.67	120.54
1	fj	63	GLN	CA-C-O	-7.50	112.60	120.55
1	fy	156	GLY	O-C-N	-7.50	114.27	121.77
1	fD	139	ASN	CA-C-N	7.50	130.34	120.28
1	fD	139	ASN	C-N-CA	7.50	130.34	120.28
1	0	59	VAL	CA-C-O	7.50	128.07	119.89
1	s	20	LEU	CA-C-N	7.50	130.56	120.65
1	s	20	LEU	C-N-CA	7.50	130.56	120.65
1	h6	195	ASN	CA-C-N	7.50	129.22	119.84
1	h6	195	ASN	C-N-CA	7.50	129.22	119.84
1	hb	209	ALA	O-C-N	-7.50	113.42	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hc	214	MET	CG-SD-CE	-7.50	84.40	100.90
1	hh	84	HIS	CA-CB-CG	-7.50	106.30	113.80
1	hS	79	GLU	CA-C-N	7.50	130.19	120.44
1	hS	79	GLU	C-N-CA	7.50	130.19	120.44
1	iH	32	PHE	CA-CB-CG	-7.50	106.30	113.80
1	k6	167	ARG	N-CA-C	7.50	119.46	111.28
1	ka	40	PHE	CA-C-N	7.50	130.55	120.65
1	ka	40	PHE	C-N-CA	7.50	130.55	120.65
1	kb	24	VAL	CB-CA-C	-7.50	101.87	112.22
1	kc	101	GLY	CA-C-N	7.50	133.25	120.72
1	kc	101	GLY	C-N-CA	7.50	133.25	120.72
1	kl	40	PHE	CA-C-N	7.50	130.94	120.29
1	kl	40	PHE	C-N-CA	7.50	130.94	120.29
1	kv	178	SER	N-CA-C	7.50	121.28	110.10
1	kC	182	LYS	N-CA-C	7.50	120.34	111.71
1	l9	12	HIS	CA-C-N	7.50	134.93	122.33
1	l9	12	HIS	C-N-CA	7.50	134.93	122.33
1	lf	15	ILE	CB-CA-C	7.50	119.33	111.23
1	ln	97	ARG	NE-CZ-NH2	-7.50	112.45	119.20
1	ln	206	GLY	CA-C-O	-7.50	110.79	121.52
1	2s	206	GLY	CA-C-N	7.50	127.22	119.64
1	2s	206	GLY	C-N-CA	7.50	127.22	119.64
1	2B	229	ARG	CA-C-N	7.50	131.34	120.91
1	2B	229	ARG	C-N-CA	7.50	131.34	120.91
1	2O	226	HIS	ND1-CE1-NE2	7.50	115.90	108.40
1	37	21	ASN	CA-C-N	7.50	130.33	120.28
1	37	21	ASN	C-N-CA	7.50	130.33	120.28
1	3c	161	PHE	CA-CB-CG	-7.50	106.30	113.80
1	3i	190	LEU	CA-C-N	7.50	131.47	120.74
1	3i	190	LEU	C-N-CA	7.50	131.47	120.74
1	3i	209	ALA	CA-C-O	7.50	129.19	120.49
1	3X	86	VAL	N-CA-C	7.50	118.68	109.30
1	48	120	HIS	CA-CB-CG	-7.50	106.30	113.80
1	4p	47	ALA	N-CA-C	7.50	121.28	110.10
1	4t	132	ARG	CA-C-N	7.50	130.33	120.28
1	4t	132	ARG	C-N-CA	7.50	130.33	120.28
1	59	18	ARG	NE-CZ-NH1	7.50	129.00	121.50
1	5y	47	ALA	N-CA-C	7.50	121.08	110.50
1	6e	195	ASN	CA-C-O	-7.50	112.52	120.70
1	6g	139	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	8b	52	LEU	N-CA-C	7.50	119.10	111.07
1	8P	60	GLY	CA-C-N	7.50	128.18	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8P	60	GLY	C-N-CA	7.50	128.18	120.60
1	99	101	GLY	CA-C-N	7.50	131.08	120.28
1	99	101	GLY	C-N-CA	7.50	131.08	120.28
1	aD	181	VAL	N-CA-CB	7.50	121.83	110.58
1	bp	124	ILE	N-CA-CB	-7.50	103.10	110.08
1	bM	159	GLU	O-C-N	-7.50	114.78	121.31
1	c8	135	ILE	N-CA-C	7.50	118.27	110.62
1	cP	155	GLN	O-C-N	-7.50	114.16	123.01
1	d7	226	HIS	CE1-NE2-CD2	-7.50	101.50	109.00
1	de	74	ASN	O-C-N	-7.50	114.17	122.12
1	ee	183	ASN	CA-C-N	7.50	130.33	120.28
1	ee	183	ASN	C-N-CA	7.50	130.33	120.28
1	el	42	ALA	O-C-N	7.50	130.70	122.15
1	eB	33	SER	O-C-N	-7.50	116.55	121.88
1	fm	53	ASN	CA-C-N	7.50	130.19	120.44
1	fm	53	ASN	C-N-CA	7.50	130.19	120.44
1	ft	146	SER	CA-C-N	7.50	129.22	119.84
1	ft	146	SER	C-N-CA	7.50	129.22	119.84
1	fV	104	ILE	N-CA-C	7.50	118.27	110.62
1	g2	33	SER	CA-C-O	-7.50	113.60	120.50
1	2	194	ALA	CA-C-O	-7.50	113.62	121.87
1	5	143	ARG	NE-CZ-NH1	7.50	129.00	121.50
1	gB	133	TRP	N-CA-C	7.50	120.33	111.71
1	hR	110	THR	CA-C-N	7.50	130.33	120.28
1	hR	110	THR	C-N-CA	7.50	130.33	120.28
1	iw	87	HIS	ND1-CE1-NE2	7.50	115.90	108.40
1	j2	86	VAL	O-C-N	-7.50	115.02	122.67
1	kM	195	ASN	O-C-N	-7.50	114.00	121.27
1	kP	60	GLY	CA-C-N	7.50	129.15	122.47
1	kP	60	GLY	C-N-CA	7.50	129.15	122.47
1	kS	55	MET	N-CA-C	7.50	119.45	111.28
1	lB	141	ILE	N-CA-C	7.50	118.23	110.36
1	lP	59	VAL	N-CA-C	7.50	119.50	109.37
1	5W	68	MET	N-CA-C	7.50	119.45	111.28
1	8Z	129	ILE	CA-C-N	7.50	130.19	120.44
1	8Z	129	ILE	C-N-CA	7.50	130.19	120.44
1	9s	20	LEU	CA-C-N	7.50	130.33	120.28
1	9s	20	LEU	C-N-CA	7.50	130.33	120.28
1	9Y	66	MET	CA-C-O	-7.50	112.60	120.55
1	bb	130	TYR	CA-C-O	7.50	128.60	119.38
1	c1	183	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	1n	12	HIS	CE1-NE2-CD2	-7.50	101.50	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fZ	77	ALA	N-CA-C	7.50	119.45	111.28
1	d	206	GLY	O-C-N	-7.50	114.27	121.77
1	gM	185	MET	O-C-N	-7.50	114.35	122.07
1	ho	126	VAL	N-CA-C	7.50	118.27	110.62
1	hA	42	ALA	CA-C-N	7.50	130.33	120.28
1	hA	42	ALA	C-N-CA	7.50	130.33	120.28
1	hG	60	GLY	CA-C-N	7.50	129.00	120.53
1	hG	60	GLY	C-N-CA	7.50	129.00	120.53
1	iS	167	ARG	CA-C-N	7.50	130.83	120.63
1	iS	167	ARG	C-N-CA	7.50	130.83	120.63
1	iZ	120	HIS	ND1-CE1-NE2	7.50	115.90	108.40
1	kt	156	GLY	O-C-N	-7.50	114.27	121.77
1	lf	172	LEU	N-CA-C	7.50	119.45	111.28
1	3F	162	ARG	N-CA-C	7.50	119.53	111.36
1	4O	169	TYR	CA-CB-CG	-7.50	100.40	113.90
1	5u	120	HIS	CG-CD2-NE2	7.50	114.70	107.20
1	5u	166	ASP	N-CA-C	7.50	119.45	111.28
1	67	95	GLN	N-CA-C	-7.50	97.92	109.24
1	6p	5	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	6y	148	THR	CA-C-N	7.50	135.86	121.54
1	6y	148	THR	C-N-CA	7.50	135.86	121.54
1	6Z	119	THR	CA-C-O	-7.50	110.79	119.56
1	8e	84	HIS	N-CA-C	7.50	119.35	109.83
1	9P	84	HIS	CA-C-N	7.50	129.21	119.84
1	9P	84	HIS	C-N-CA	7.50	129.21	119.84
1	az	132	ARG	NE-CZ-NH2	-7.50	112.45	119.20
1	bd	195	ASN	CA-CB-CG	7.50	120.10	112.60
1	bx	117	TRP	CA-C-O	-7.50	112.53	120.63
1	bB	211	LEU	CA-C-N	7.50	130.94	120.29
1	bB	211	LEU	C-N-CA	7.50	130.94	120.29
1	bG	18	ARG	CA-C-N	7.50	130.33	120.28
1	bG	18	ARG	C-N-CA	7.50	130.33	120.28
1	cN	82	ARG	N-CA-C	7.50	120.91	111.69
1	d1	161	PHE	N-CA-C	7.50	119.45	111.28
1	d2	87	HIS	CE1-NE2-CD2	-7.50	101.50	109.00
1	ds	90	PRO	CA-C-O	-7.50	113.21	121.23
1	e3	140	LYS	N-CA-C	7.50	119.45	111.28
1	ei	105	ALA	CA-C-N	7.50	133.06	120.91
1	ei	105	ALA	C-N-CA	7.50	133.06	120.91
1	en	195	ASN	CB-CA-C	7.50	126.09	110.50
1	eY	173	ARG	N-CA-C	7.50	119.09	111.07
1	fS	97	ARG	CA-C-N	7.50	131.14	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	97	ARG	C-N-CA	7.50	131.14	120.49
1	u	121	ASN	O-C-N	-7.50	111.88	121.10
1	z	62	HIS	CE1-NE2-CD2	-7.50	101.50	109.00
1	T	166	ASP	CA-C-O	7.50	128.69	120.82
1	gr	41	SER	CA-C-N	7.50	130.19	120.44
1	gr	41	SER	C-N-CA	7.50	130.19	120.44
1	gv	200	THR	CA-C-N	7.50	129.87	120.72
1	gv	200	THR	C-N-CA	7.50	129.87	120.72
1	gX	10	MET	N-CA-C	7.50	120.81	110.24
1	i6	139	ASN	O-C-N	-7.50	113.45	122.22
1	jh	195	ASN	O-C-N	-7.50	113.58	121.30
1	1V	113	GLU	CA-C-N	7.50	130.66	120.54
1	1V	113	GLU	C-N-CA	7.50	130.66	120.54
1	jt	172	LEU	N-CA-C	7.50	120.11	111.11
1	ku	113	GLU	CA-C-O	7.50	128.37	120.42
1	kR	166	ASP	N-CA-C	7.50	119.45	111.28
1	29	67	GLN	CA-C-O	7.50	128.42	120.70
1	lD	162	ARG	NE-CZ-NH2	-7.50	112.45	119.20
1	2H	165	VAL	CA-C-N	7.50	130.33	120.28
1	2H	165	VAL	C-N-CA	7.50	130.33	120.28
1	2Q	13	GLN	OE1-CD-NE2	-7.50	115.10	122.60
1	3C	223	GLY	CA-C-N	7.50	127.50	119.78
1	3C	223	GLY	C-N-CA	7.50	127.50	119.78
1	3L	200	THR	N-CA-C	7.50	120.11	111.11
1	4m	140	LYS	N-CA-C	7.50	119.09	111.07
1	4Q	53	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	4W	112	GLN	OE1-CD-NE2	-7.50	115.10	122.60
1	50	33	SER	O-C-N	-7.50	116.18	121.65
1	6h	122	PRO	CA-C-N	7.50	127.55	119.90
1	6h	122	PRO	C-N-CA	7.50	127.55	119.90
1	6B	75	GLU	N-CA-C	7.50	120.11	111.11
1	7E	170	LYS	O-C-N	-7.50	114.17	122.12
1	7O	227	LYS	N-CA-C	-7.50	103.44	112.59
1	8N	153	ILE	CA-C-O	7.50	129.59	121.04
1	9h	137	GLY	CA-C-N	7.50	130.32	120.28
1	9h	137	GLY	C-N-CA	7.50	130.32	120.28
1	9k	226	HIS	CE1-NE2-CD2	-7.50	101.50	109.00
1	9r	29	GLU	CA-C-O	7.50	128.70	119.78
1	a8	159	GLU	CA-C-N	7.50	127.48	119.76
1	a8	159	GLU	C-N-CA	7.50	127.48	119.76
1	aj	98	GLU	CA-C-O	-7.50	113.69	119.46
1	au	68	MET	O-C-N	-7.50	114.29	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bE	190	LEU	CA-C-N	7.50	130.16	120.56
1	bE	190	LEU	C-N-CA	7.50	130.16	120.56
1	bW	62	HIS	CA-C-O	7.50	131.44	122.14
1	dk	195	ASN	OD1-CG-ND2	-7.50	115.10	122.60
1	dv	48	THR	CA-C-O	-7.50	113.10	120.97
1	eb	222	GLY	N-CA-C	7.50	125.42	114.10
1	fb	101	GLY	CA-C-O	7.50	128.15	120.80
1	fn	80	TRP	CA-C-N	7.50	130.19	120.44
1	fn	80	TRP	C-N-CA	7.50	130.19	120.44
1	0	133	TRP	CB-CG-CD2	-7.50	116.31	126.80
1	J	21	ASN	O-C-N	-7.50	114.17	122.12
1	gP	86	VAL	CA-CB-CG1	7.50	123.14	110.40
1	gY	167	ARG	NE-CZ-NH2	-7.50	112.45	119.20
1	hf	214	MET	CA-C-O	7.50	128.69	120.82
1	iH	172	LEU	CA-C-N	7.50	130.65	120.38
1	iH	172	LEU	C-N-CA	7.50	130.65	120.38
1	jB	121	ASN	CB-CA-C	7.50	120.17	110.13
1	k6	97	ARG	NH1-CZ-NH2	-7.50	109.56	119.30
1	kQ	141	ILE	N-CA-CB	7.50	119.32	110.55
1	lq	134	ILE	CA-C-N	7.50	130.00	120.56
1	lq	134	ILE	C-N-CA	7.50	130.00	120.56
1	2j	149	SER	N-CA-CB	7.50	121.38	110.06
1	2Y	39	MET	CG-SD-CE	-7.50	84.41	100.90
1	6H	140	LYS	N-CA-CB	7.50	121.14	110.12
1	8L	115	ILE	CA-C-N	7.50	128.30	119.98
1	8L	115	ILE	C-N-CA	7.50	128.30	119.98
1	9S	48	THR	O-C-N	-7.50	113.14	121.53
1	cO	112	GLN	CA-C-N	7.50	130.32	120.28
1	cO	112	GLN	C-N-CA	7.50	130.32	120.28
1	eA	204	ALA	N-CA-CB	-7.50	99.07	110.16
1	f8	226	HIS	CB-CA-C	7.50	122.16	109.72
1	1B	67	GLN	CA-C-N	7.50	130.18	120.44
1	1B	67	GLN	C-N-CA	7.50	130.18	120.44
1	k	68	MET	CA-C-N	7.50	130.18	120.44
1	k	68	MET	C-N-CA	7.50	130.18	120.44
1	6	178	SER	N-CA-CB	7.50	121.08	110.36
1	hV	218	CYS	N-CA-C	7.49	121.39	111.28
1	iz	133	TRP	CB-CG-CD2	-7.49	116.31	126.80
1	iQ	75	GLU	CA-C-O	7.49	128.49	120.55
1	jP	37	ILE	CA-C-N	7.49	127.02	118.85
1	jP	37	ILE	C-N-CA	7.49	127.02	118.85
1	21	161	PHE	CA-C-N	7.49	130.18	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	161	PHE	C-N-CA	7.49	130.18	120.44
1	kV	182	LYS	N-CA-C	7.49	123.73	111.37
1	l0	113	GLU	N-CA-C	7.49	119.45	111.28
1	lw	62	HIS	CA-CB-CG	-7.49	106.31	113.80
1	2F	37	ILE	O-C-N	-7.49	115.62	120.42
1	2X	107	THR	O-C-N	-7.49	114.18	122.12
1	3F	18	ARG	NE-CZ-NH2	7.49	125.94	119.20
1	3F	152	ASP	N-CA-C	-7.49	103.26	113.30
1	4A	163	ASP	CA-CB-CG	7.49	120.09	112.60
1	4O	89	GLY	CA-C-N	7.49	127.65	120.31
1	4O	89	GLY	C-N-CA	7.49	127.65	120.31
1	51	79	GLU	O-C-N	-7.49	114.30	122.09
1	5r	92	GLU	O-C-N	-7.49	113.54	120.51
1	5D	63	GLN	N-CA-C	7.49	121.52	112.38
1	5G	229	ARG	NE-CZ-NH1	7.49	128.99	121.50
1	62	12	HIS	CE1-NE2-CD2	-7.49	101.51	109.00
1	6q	199	LYS	N-CA-C	7.49	120.33	111.71
1	6z	126	VAL	CA-C-N	7.49	128.26	119.94
1	6z	126	VAL	C-N-CA	7.49	128.26	119.94
1	6L	130	TYR	O-C-N	-7.49	113.45	122.22
1	7O	48	THR	O-C-N	-7.49	115.75	121.14
1	9f	98	GLU	O-C-N	-7.49	114.63	121.30
1	9F	47	ALA	O-C-N	-7.49	113.83	122.97
1	9Y	190	LEU	O-C-N	-7.49	114.18	122.12
1	a7	14	ALA	N-CA-C	7.49	121.07	110.50
1	aL	122	PRO	CA-C-N	7.49	128.60	120.13
1	aL	122	PRO	C-N-CA	7.49	128.60	120.13
1	15	116	GLY	CA-C-N	7.49	130.18	120.44
1	15	116	GLY	C-N-CA	7.49	130.18	120.44
1	bD	14	ALA	CA-C-N	7.49	130.54	120.50
1	bD	14	ALA	C-N-CA	7.49	130.54	120.50
1	bN	2	ILE	CB-CA-C	7.49	121.03	110.84
1	ck	143	ARG	N-CA-C	7.49	119.09	111.07
1	1e	186	THR	N-CA-CB	7.49	121.25	110.16
1	dz	181	VAL	N-CA-CB	7.49	120.73	110.54
1	dH	19	THR	CA-CB-CG2	7.49	123.24	110.50
1	dH	179	GLN	N-CA-C	7.49	119.45	111.28
1	e5	166	ASP	CA-CB-CG	7.49	120.09	112.60
1	ef	187	GLU	O-C-N	-7.49	113.17	122.24
1	fS	212	GLU	CA-C-O	-7.49	112.61	120.55
1	fW	47	ALA	CA-C-O	7.49	129.18	120.49
1	gz	14	ALA	CA-C-N	7.49	130.54	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gz	14	ALA	C-N-CA	7.49	130.54	120.50
1	hu	115	ILE	N-CA-C	-7.49	101.40	111.44
1	jc	58	THR	O-C-N	-7.49	113.61	122.15
1	jl	121	ASN	CA-CB-CG	-7.49	105.11	112.60
1	20	157	PRO	N-CA-C	7.49	124.18	113.47
1	ka	92	GLU	CA-C-O	-7.49	112.71	119.75
1	kE	47	ALA	CB-CA-C	7.49	122.19	109.53
1	lx	211	LEU	N-CA-C	7.49	120.39	111.33
1	lH	110	THR	N-CA-CB	7.49	121.91	109.92
1	2c	53	ASN	CA-CB-CG	-7.49	105.11	112.60
1	2I	115	ILE	CA-C-N	7.49	128.46	119.99
1	2I	115	ILE	C-N-CA	7.49	128.46	119.99
1	37	74	ASN	CA-C-N	7.49	130.32	120.28
1	37	74	ASN	C-N-CA	7.49	130.32	120.28
1	3l	93	PRO	N-CA-CB	7.49	110.01	103.27
1	4j	142	VAL	CA-C-N	7.49	130.65	120.54
1	4j	142	VAL	C-N-CA	7.49	130.65	120.54
1	4l	117	TRP	O-C-N	-7.49	114.18	122.12
1	4n	72	THR	N-CA-CB	7.49	120.87	110.01
1	4F	200	THR	OG1-CB-CG2	-7.49	94.31	109.30
1	4S	150	ILE	N-CA-C	7.49	118.26	110.62
1	5V	126	VAL	N-CA-C	7.49	118.26	110.62
1	8X	20	LEU	CA-C-N	7.49	131.07	120.28
1	8X	20	LEU	C-N-CA	7.49	131.07	120.28
1	9f	212	GLU	CA-C-N	7.49	131.70	120.31
1	9f	212	GLU	C-N-CA	7.49	131.70	120.31
1	9h	87	HIS	N-CA-C	7.49	121.20	109.96
1	9Z	97	ARG	NE-CZ-NH1	7.49	128.99	121.50
1	c1	79	GLU	O-C-N	-7.49	114.18	122.12
1	e9	144	MET	N-CA-C	7.49	119.53	111.36
1	fB	37	ILE	N-CA-CB	7.49	116.29	110.45
1	fR	153	ILE	O-C-N	-7.49	115.17	123.26
1	g6	115	ILE	N-CA-CB	7.49	118.83	110.51
1	t	136	LEU	CA-C-N	7.49	128.30	119.98
1	t	136	LEU	C-N-CA	7.49	128.30	119.98
1	gT	206	GLY	O-C-N	7.49	129.26	121.77
1	ib	221	VAL	N-CA-C	7.49	120.41	111.05
1	iw	57	ASN	N-CA-C	7.49	120.51	111.82
1	iL	125	PRO	CB-CA-C	7.49	122.70	112.89
1	jo	14	ALA	CA-C-N	7.49	130.54	120.50
1	jo	14	ALA	C-N-CA	7.49	130.54	120.50
1	kk	205	LEU	N-CA-C	7.49	119.53	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kl	178	SER	N-CA-C	7.49	122.04	110.20
1	kH	58	THR	N-CA-C	7.49	119.44	111.28
1	2R	121	ASN	O-C-N	-7.49	112.77	121.23
1	31	129	ILE	N-CA-C	7.49	118.26	110.62
1	32	176	GLN	O-C-N	-7.49	112.63	122.59
1	34	93	PRO	CA-C-O	-7.49	112.59	121.95
1	37	27	VAL	N-CA-C	7.49	117.61	110.42
1	3w	114	GLN	O-C-N	-7.49	111.72	122.36
1	3L	96	MET	CA-C-O	-7.49	112.79	120.96
1	44	226	HIS	ND1-CE1-NE2	7.49	115.89	108.40
1	4N	179	GLN	N-CA-C	7.49	120.10	111.11
1	7i	111	LEU	N-CA-C	7.49	119.44	111.28
1	7p	126	VAL	O-C-N	-7.49	114.33	121.90
1	7r	167	ARG	NE-CZ-NH2	-7.49	112.46	119.20
1	86	128	GLU	CA-C-O	7.49	128.69	120.82
1	87	14	ALA	N-CA-C	7.49	119.98	110.24
1	8Q	193	ASN	OD1-CG-ND2	-7.49	115.11	122.60
1	8R	82	ARG	CA-C-N	7.49	130.32	120.28
1	8R	82	ARG	C-N-CA	7.49	130.32	120.28
1	8S	36	VAL	CA-C-N	7.49	126.32	120.33
1	8S	36	VAL	C-N-CA	7.49	126.32	120.33
1	9h	195	ASN	O-C-N	-7.49	115.24	121.38
1	a4	222	GLY	O-C-N	-7.49	116.54	123.96
1	a7	218	CYS	N-CA-C	7.49	122.01	111.52
1	aZ	4	GLN	OE1-CD-NE2	-7.49	115.11	122.60
1	b0	33	SER	CA-C-N	7.49	127.86	119.32
1	b0	33	SER	C-N-CA	7.49	127.86	119.32
1	bz	226	HIS	CB-CG-CD2	-7.49	121.46	131.20
1	bZ	228	ALA	N-CA-CB	7.49	120.97	110.26
1	cp	103	ASP	N-CA-C	7.49	119.44	111.28
1	dy	124	ILE	O-C-N	-7.49	115.62	121.46
1	fl	221	VAL	CA-C-N	7.49	127.46	120.34
1	fl	221	VAL	C-N-CA	7.49	127.46	120.34
1	fP	174	ALA	O-C-N	7.49	130.69	122.15
1	k	173	ARG	N-CA-C	7.49	119.44	111.28
1	R	128	GLU	CA-C-N	7.49	130.00	120.56
1	R	128	GLU	C-N-CA	7.49	130.00	120.56
1	S	64	ALA	CA-C-N	7.49	130.32	120.28
1	S	64	ALA	C-N-CA	7.49	130.32	120.28
1	gw	154	ARG	NE-CZ-NH2	7.49	125.94	119.20
1	hN	54	THR	O-C-N	-7.49	114.36	122.07
1	hZ	48	THR	OG1-CB-CG2	-7.49	94.32	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i9	87	HIS	CB-CG-CD2	-7.49	121.46	131.20
1	iu	65	ALA	N-CA-C	7.49	119.08	111.07
1	1Q	77	ALA	CA-C-N	7.49	130.17	120.44
1	1Q	77	ALA	C-N-CA	7.49	130.17	120.44
1	iD	158	LYS	N-CA-C	-7.49	103.98	113.72
1	iU	196	PRO	CA-C-N	7.49	130.31	120.28
1	iU	196	PRO	C-N-CA	7.49	130.31	120.28
1	iZ	34	PRO	CA-C-N	7.49	131.31	120.38
1	iZ	34	PRO	C-N-CA	7.49	131.31	120.38
1	jI	79	GLU	N-CA-C	7.49	119.44	111.28
1	21	51	ASP	CA-C-O	7.49	128.49	120.55
1	kw	69	LEU	CB-CA-C	7.49	122.64	110.88
1	kA	77	ALA	CA-C-N	7.49	130.17	120.44
1	kA	77	ALA	C-N-CA	7.49	130.17	120.44
1	kP	134	ILE	O-C-N	-7.49	114.61	121.87
1	l7	59	VAL	CA-C-N	7.49	129.78	120.34
1	l7	59	VAL	C-N-CA	7.49	129.78	120.34
1	ld	18	ARG	NE-CZ-NH1	7.49	128.99	121.50
1	ly	100	ARG	NE-CZ-NH2	-7.49	112.46	119.20
1	58	18	ARG	N-CA-C	7.49	119.44	111.28
1	5e	68	MET	CA-C-N	7.49	130.92	120.29
1	5e	68	MET	C-N-CA	7.49	130.92	120.29
1	61	215	MET	N-CA-C	7.49	119.08	111.07
1	6H	3	VAL	O-C-N	-7.49	114.76	123.00
1	6O	68	MET	CG-SD-CE	-7.49	84.42	100.90
1	7l	200	THR	N-CA-C	7.49	119.08	111.07
1	8v	82	ARG	NE-CZ-NH2	-7.49	112.46	119.20
1	9f	69	LEU	N-CA-C	7.49	119.08	111.07
1	9g	18	ARG	CA-C-N	7.49	130.31	120.28
1	9g	18	ARG	C-N-CA	7.49	130.31	120.28
1	9g	140	LYS	N-CA-C	7.49	120.32	111.71
1	9u	226	HIS	ND1-CE1-NE2	7.49	115.89	108.40
1	9A	92	GLU	N-CA-C	7.49	118.21	109.60
1	al	183	ASN	O-C-N	-7.49	114.36	122.07
1	ar	149	SER	CA-C-N	7.49	130.72	120.46
1	ar	149	SER	C-N-CA	7.49	130.72	120.46
1	aO	170	LYS	N-CA-C	-7.49	103.20	111.36
1	bJ	170	LYS	CA-C-N	7.49	130.31	120.28
1	bJ	170	LYS	C-N-CA	7.49	130.31	120.28
1	bM	208	ALA	N-CA-C	7.49	122.00	113.01
1	bN	135	ILE	N-CA-C	7.49	117.61	110.42
1	cl	84	HIS	CA-C-N	7.49	127.53	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cl	84	HIS	C-N-CA	7.49	127.53	119.89
1	d5	16	SER	CA-C-O	7.49	128.86	120.70
1	dz	202	LEU	O-C-N	-7.49	113.46	122.22
1	dT	33	SER	CA-C-O	-7.49	112.18	120.87
1	e2	162	ARG	NE-CZ-NH1	7.49	128.99	121.50
1	e7	140	LYS	CA-C-N	7.49	130.72	120.46
1	e7	140	LYS	C-N-CA	7.49	130.72	120.46
1	eb	16	SER	N-CA-C	7.49	119.15	109.64
1	ee	69	LEU	N-CA-C	7.49	119.08	111.07
1	em	23	TRP	N-CA-C	7.49	120.09	111.11
1	eK	24	VAL	CA-CB-CG2	-7.49	97.67	110.40
1	f0	47	ALA	N-CA-C	7.49	122.03	110.20
1	fx	174	ALA	O-C-N	-7.49	114.36	122.07
1	fG	97	ARG	NE-CZ-NH1	7.49	128.99	121.50
1	o	166	ASP	CA-C-N	7.49	130.32	120.28
1	o	166	ASP	C-N-CA	7.49	130.32	120.28
1	h0	48	THR	CA-C-O	-7.49	113.11	120.97
1	hn	14	ALA	CA-C-N	7.49	131.32	120.91
1	hn	14	ALA	C-N-CA	7.49	131.32	120.91
1	jU	211	LEU	CA-C-N	7.49	130.31	120.28
1	jU	211	LEU	C-N-CA	7.49	130.31	120.28
1	jW	171	THR	CA-C-N	7.49	130.31	120.28
1	jW	171	THR	C-N-CA	7.49	130.31	120.28
1	21	135	ILE	N-CA-C	7.49	118.26	110.62
1	lr	140	LYS	O-C-N	-7.49	114.18	122.12
1	2E	57	ASN	CA-CB-CG	-7.49	105.11	112.60
1	3Q	125	PRO	CA-C-O	-7.49	112.84	121.97
1	4W	175	GLU	N-CA-C	7.49	119.44	111.28
1	72	201	ILE	N-CA-C	7.49	118.26	110.62
1	7E	115	ILE	CA-C-N	7.49	128.41	120.03
1	7E	115	ILE	C-N-CA	7.49	128.41	120.03
1	8x	181	VAL	N-CA-C	7.49	117.61	110.42
1	9E	177	ALA	N-CA-C	7.49	119.97	110.24
1	9K	69	LEU	CA-C-N	7.49	130.31	120.28
1	9K	69	LEU	C-N-CA	7.49	130.31	120.28
1	ah	134	ILE	N-CA-C	7.49	118.26	110.62
1	bb	2	ILE	N-CA-CB	7.49	121.43	111.25
1	bB	229	ARG	NE-CZ-NH2	-7.49	112.46	119.20
1	cE	17	PRO	N-CA-CB	7.49	111.69	103.30
1	e4	198	CYS	CA-C-N	7.49	130.64	120.38
1	e4	198	CYS	C-N-CA	7.49	130.64	120.38
1	ev	56	LEU	CA-C-N	7.49	130.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ev	56	LEU	C-N-CA	7.49	130.31	120.28
1	eD	170	LYS	N-CA-C	7.49	119.44	111.28
1	fh	142	VAL	CA-C-N	7.49	131.06	120.28
1	fh	142	VAL	C-N-CA	7.49	131.06	120.28
1	1z	54	THR	CA-C-O	7.49	128.49	120.55
1	I	202	LEU	N-CA-C	7.49	119.52	111.36
1	gm	22	ALA	CA-C-N	7.49	130.31	120.28
1	gm	22	ALA	C-N-CA	7.49	130.31	120.28
1	gv	37	ILE	CA-C-N	7.49	127.01	118.85
1	gv	37	ILE	C-N-CA	7.49	127.01	118.85
1	hf	41	SER	CA-C-N	7.49	130.65	120.54
1	hf	41	SER	C-N-CA	7.49	130.65	120.54
1	1I	114	GLN	OE1-CD-NE2	-7.49	115.11	122.60
1	hv	141	ILE	O-C-N	-7.49	114.61	121.87
1	ir	112	GLN	O-C-N	-7.49	114.19	122.12
1	jK	85	PRO	N-CA-CB	7.49	107.11	102.92
1	jU	86	VAL	O-C-N	-7.49	114.69	122.63
1	kl	51	ASP	CA-C-O	-7.49	112.61	120.55
1	lg	14	ALA	N-CA-C	7.49	119.99	110.33
1	36	66	MET	O-C-N	-7.49	114.19	122.12
1	3m	143	ARG	N-CA-CB	7.49	120.86	110.01
1	3s	53	ASN	N-CA-C	7.49	119.08	111.07
1	3s	129	ILE	O-C-N	7.49	129.68	121.90
1	3t	203	LYS	O-C-N	-7.49	113.46	122.22
1	4s	189	LEU	CA-C-N	7.49	130.31	120.28
1	4s	189	LEU	C-N-CA	7.49	130.31	120.28
1	4u	65	ALA	CA-C-O	7.49	128.48	120.55
1	4E	50	GLN	CG-CD-NE2	-7.49	105.17	116.40
1	5o	23	TRP	O-C-N	-7.49	114.19	122.12
1	6o	214	MET	O-C-N	-7.49	114.36	122.07
1	6B	227	LYS	N-CA-CB	7.49	122.32	110.57
1	6Y	141	ILE	N-CA-CB	7.49	119.31	110.55
1	6Z	16	SER	CA-C-N	7.49	129.20	119.84
1	6Z	16	SER	C-N-CA	7.49	129.20	119.84
1	71	228	ALA	N-CA-C	7.49	119.52	111.36
1	7S	3	VAL	N-CA-CB	7.49	120.89	111.46
1	86	100	ARG	NE-CZ-NH2	7.49	125.94	119.20
1	8Z	174	ALA	N-CA-C	7.49	119.52	111.36
1	9i	205	LEU	CA-C-O	7.49	128.49	119.43
1	9m	135	ILE	CA-C-O	-7.49	113.16	120.95
1	9x	57	ASN	O-C-N	-7.49	114.19	122.12
1	ad	121	ASN	OD1-CG-ND2	-7.49	115.11	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bi	111	LEU	N-CA-C	7.49	120.39	111.33
1	bH	45	GLU	O-C-N	-7.49	114.19	122.12
1	co	120	HIS	ND1-CE1-NE2	7.49	115.89	108.40
1	cz	66	MET	N-CA-C	7.49	119.08	111.07
1	cK	134	ILE	CA-C-N	7.49	130.72	120.46
1	cK	134	ILE	C-N-CA	7.49	130.72	120.46
1	dx	36	VAL	CA-C-N	7.49	126.32	120.33
1	dx	36	VAL	C-N-CA	7.49	126.32	120.33
1	dG	113	GLU	CA-C-N	7.49	130.31	120.28
1	dG	113	GLU	C-N-CA	7.49	130.31	120.28
1	dW	63	GLN	OE1-CD-NE2	7.49	130.09	122.60
1	ei	100	ARG	O-C-N	-7.49	113.92	122.68
1	en	202	LEU	CA-C-N	7.49	130.17	120.44
1	en	202	LEU	C-N-CA	7.49	130.17	120.44
1	eo	12	HIS	CA-CB-CG	-7.49	106.31	113.80
1	fu	170	LYS	CA-C-N	7.49	130.31	120.28
1	fu	170	LYS	C-N-CA	7.49	130.31	120.28
1	fS	50	GLN	N-CA-C	7.49	119.44	111.28
1	4	192	GLN	CB-CG-CD	7.49	125.33	112.60
1	gQ	195	ASN	CA-CB-CG	7.48	120.08	112.60
1	hg	59	VAL	CB-CA-C	7.48	119.84	111.08
1	hK	187	GLU	N-CA-C	7.48	119.44	111.28
1	2b	32	PHE	CA-CB-CG	-7.48	106.32	113.80
1	3B	189	LEU	CA-C-O	7.48	126.98	118.97
1	5P	77	ALA	CA-C-O	-7.48	112.96	120.82
1	6W	193	ASN	CA-CB-CG	7.48	120.08	112.60
1	bR	180	GLU	CA-C-N	7.48	129.99	120.56
1	bR	180	GLU	C-N-CA	7.48	129.99	120.56
1	cs	32	PHE	CA-CB-CG	-7.48	106.32	113.80
1	1p	230	VAL	CB-CA-C	7.48	120.02	110.96
1	gi	42	ALA	CA-C-O	-7.48	112.99	120.70
1	gF	224	PRO	N-CA-CB	7.48	109.92	103.19
1	hK	185	MET	O-C-N	-7.48	114.36	122.07
1	iW	71	GLU	N-CA-C	7.48	121.33	111.75
1	k2	174	ALA	CA-C-N	7.48	131.34	120.71
1	k2	174	ALA	C-N-CA	7.48	131.34	120.71
1	k4	62	HIS	CA-CB-CG	-7.48	106.32	113.80
1	lc	36	VAL	N-CA-C	7.48	118.25	110.62
1	ly	96	MET	CB-CA-C	7.48	120.46	110.06
1	lR	182	LYS	CA-C-N	7.48	130.64	120.54
1	lR	182	LYS	C-N-CA	7.48	130.64	120.54
1	2I	112	GLN	O-C-N	-7.48	114.19	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	132	ARG	N-CA-C	7.48	119.44	111.28
1	3k	85	PRO	N-CA-CB	7.48	109.92	103.19
1	40	9	GLN	N-CA-C	7.48	121.08	110.23
1	4r	76	GLU	N-CA-C	7.48	119.44	111.28
1	53	32	PHE	CA-C-N	7.48	131.36	120.51
1	53	32	PHE	C-N-CA	7.48	131.36	120.51
1	5V	34	PRO	CB-CA-C	-7.48	101.22	111.85
1	7H	50	GLN	OE1-CD-NE2	-7.48	115.12	122.60
1	8e	119	THR	N-CA-CB	7.48	122.98	110.41
1	8w	198	CYS	CA-C-N	7.48	130.64	120.54
1	8w	198	CYS	C-N-CA	7.48	130.64	120.54
1	9g	159	GLU	O-C-N	-7.48	114.80	121.31
1	a4	40	PHE	CA-C-O	7.48	128.48	120.55
1	aC	20	LEU	CA-C-O	-7.48	112.62	120.55
1	be	90	PRO	N-CA-C	7.48	122.97	111.15
1	bs	222	GLY	O-C-N	-7.48	116.78	123.29
1	c9	87	HIS	CE1-NE2-CD2	-7.48	101.52	109.00
1	cu	50	GLN	N-CA-CB	7.48	121.09	109.94
1	df	181	VAL	N-CA-C	7.48	118.22	110.36
1	di	101	GLY	N-CA-C	7.48	121.96	112.83
1	dy	199	LYS	O-C-N	-7.48	114.19	122.12
1	dG	155	GLN	O-C-N	-7.48	113.46	123.19
1	ed	111	LEU	CA-C-O	7.48	128.56	120.10
1	en	45	GLU	CA-C-N	7.48	133.55	122.10
1	en	45	GLU	C-N-CA	7.48	133.55	122.10
1	fL	199	LYS	CA-C-N	7.48	130.31	120.28
1	fL	199	LYS	C-N-CA	7.48	130.31	120.28
1	0	168	PHE	CA-C-N	7.48	130.91	120.29
1	0	168	PHE	C-N-CA	7.48	130.91	120.29
1	o	230	VAL	CA-C-O	-7.48	112.06	120.74
1	P	167	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	1F	120	HIS	CA-CB-CG	7.48	121.28	113.80
1	hg	9	GLN	O-C-N	-7.48	114.40	123.30
1	hO	195	ASN	N-CA-C	7.48	119.14	109.64
1	ic	137	GLY	CA-C-O	-7.48	112.73	120.66
1	im	24	VAL	N-CA-C	7.48	118.22	110.36
1	iu	223	GLY	CA-C-N	7.48	127.85	119.32
1	iu	223	GLY	C-N-CA	7.48	127.85	119.32
1	1U	162	ARG	NE-CZ-NH2	-7.48	112.47	119.20
1	1V	54	THR	CA-C-N	7.48	130.16	120.44
1	1V	54	THR	C-N-CA	7.48	130.16	120.44
1	k2	162	ARG	CA-C-N	7.48	130.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k2	162	ARG	C-N-CA	7.48	130.30	120.28
1	k2	226	HIS	CA-CB-CG	7.48	121.28	113.80
1	20	129	ILE	N-CA-CB	7.48	119.30	110.55
1	kH	50	GLN	CA-C-O	7.48	128.62	119.79
1	kH	89	GLY	CA-C-N	7.48	129.19	119.84
1	kH	89	GLY	C-N-CA	7.48	129.19	119.84
1	lc	15	ILE	CA-CB-CG1	7.48	123.11	110.40
1	ll	164	TYR	CA-C-N	7.48	131.04	120.42
1	ll	164	TYR	C-N-CA	7.48	131.04	120.42
1	lt	191	VAL	CB-CA-C	-7.48	102.73	110.88
1	2J	24	VAL	N-CA-C	7.48	120.44	111.09
1	3C	161	PHE	CA-CB-CG	-7.48	106.32	113.80
1	3E	186	THR	N-CA-CB	7.48	121.23	110.16
1	42	62	HIS	CE1-NE2-CD2	-7.48	101.52	109.00
1	45	66	MET	N-CA-C	7.48	119.07	111.07
1	4m	126	VAL	N-CA-C	-7.48	102.99	110.62
1	61	15	ILE	O-C-N	-7.48	115.04	122.67
1	6F	32	PHE	CA-C-N	7.48	130.79	120.39
1	6F	32	PHE	C-N-CA	7.48	130.79	120.39
1	7n	163	ASP	O-C-N	-7.48	114.01	122.09
1	7y	141	ILE	N-CA-C	7.48	117.60	110.42
1	8b	27	VAL	N-CA-C	7.48	118.25	110.62
1	8s	162	ARG	N-CA-C	7.48	120.31	111.71
1	95	37	ILE	O-C-N	-7.48	115.63	120.42
1	9Q	199	LYS	N-CA-C	7.48	120.38	111.33
1	12	11	VAL	O-C-N	-7.48	116.46	122.97
1	aC	166	ASP	CA-C-N	7.48	130.31	120.28
1	aC	166	ASP	C-N-CA	7.48	130.31	120.28
1	b8	15	ILE	CA-C-N	7.48	131.11	120.49
1	b8	15	ILE	C-N-CA	7.48	131.11	120.49
1	bF	226	HIS	ND1-CE1-NE2	7.48	115.88	108.40
1	bH	170	LYS	O-C-N	7.48	129.78	122.07
1	bI	161	PHE	CA-CB-CG	-7.48	106.32	113.80
1	bJ	183	ASN	CA-C-N	7.48	130.30	120.28
1	bJ	183	ASN	C-N-CA	7.48	130.30	120.28
1	cg	67	GLN	OE1-CD-NE2	-7.48	115.12	122.60
1	ct	163	ASP	CA-C-N	7.48	130.16	120.44
1	ct	163	ASP	C-N-CA	7.48	130.16	120.44
1	dC	190	LEU	CB-CA-C	7.48	123.57	110.85
1	dE	4	GLN	N-CA-CB	7.48	123.13	110.49
1	er	84	HIS	CA-CB-CG	-7.48	106.32	113.80
1	eB	156	GLY	O-C-N	-7.48	114.29	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g7	104	ILE	CA-CB-CG1	7.48	123.12	110.40
1	H	40	PHE	CA-CB-CG	7.48	121.28	113.80
1	gW	94	GLY	CA-C-N	7.48	132.76	122.07
1	gW	94	GLY	C-N-CA	7.48	132.76	122.07
1	hc	166	ASP	O-C-N	-7.48	114.31	122.09
1	iv	21	ASN	CA-CB-CG	-7.48	105.12	112.60
1	jF	143	ARG	NE-CZ-NH2	7.48	125.93	119.20
1	k1	39	MET	O-C-N	-7.48	114.19	122.12
1	kz	143	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	l2	97	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	2A	73	ILE	O-C-N	-7.48	114.24	121.94
1	3F	111	LEU	O-C-N	-7.48	114.19	122.12
1	4p	194	ALA	CA-C-N	7.48	131.52	120.83
1	4p	194	ALA	C-N-CA	7.48	131.52	120.83
1	4U	63	GLN	N-CA-C	7.48	120.31	111.71
1	56	92	GLU	N-CA-C	7.48	119.33	109.83
1	5n	214	MET	N-CA-C	7.48	119.43	111.28
1	84	65	ALA	N-CA-C	7.48	119.07	111.07
1	9o	199	LYS	N-CA-C	7.48	123.71	111.37
1	d3	58	THR	N-CA-CB	7.48	121.11	110.12
1	fd	71	GLU	N-CA-C	7.48	119.51	111.36
1	1y	154	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	s	84	HIS	O-C-N	-7.48	112.72	121.32
1	R	111	LEU	O-C-N	-7.48	114.19	122.12
1	gc	130	TYR	CA-C-N	7.48	130.16	120.44
1	gc	130	TYR	C-N-CA	7.48	130.16	120.44
1	gt	4	GLN	CA-C-N	7.48	133.52	123.05
1	gt	4	GLN	C-N-CA	7.48	133.52	123.05
1	gB	87	HIS	ND1-CE1-NE2	7.48	115.88	108.40
1	h5	84	HIS	CE1-NE2-CD2	-7.48	101.52	109.00
1	hf	188	THR	CA-C-N	7.48	130.62	120.38
1	hf	188	THR	C-N-CA	7.48	130.62	120.38
1	hk	226	HIS	ND1-CE1-NE2	7.48	115.88	108.40
1	hI	118	MET	N-CA-C	-7.48	103.10	112.90
1	hU	131	LYS	CA-C-N	7.48	130.91	120.29
1	hU	131	LYS	C-N-CA	7.48	130.91	120.29
1	1X	58	THR	N-CA-C	7.48	120.31	111.71
1	kf	146	SER	CA-C-O	-7.48	112.72	119.75
1	2w	61	GLY	CA-C-N	7.48	132.73	122.34
1	2w	61	GLY	C-N-CA	7.48	132.73	122.34
1	2w	147	PRO	N-CA-CB	-7.48	96.51	103.46
1	2N	211	LEU	N-CA-C	7.48	120.49	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	119	THR	CA-C-O	7.48	127.67	119.15
1	3F	19	THR	CA-C-O	7.48	128.54	120.24
1	4G	49	PRO	O-C-N	-7.48	113.26	122.23
1	4Y	21	ASN	OD1-CG-ND2	-7.48	115.12	122.60
1	6z	147	PRO	CA-C-N	7.48	131.74	121.05
1	6z	147	PRO	C-N-CA	7.48	131.74	121.05
1	6Y	103	ASP	CA-C-N	7.48	132.28	120.47
1	6Y	103	ASP	C-N-CA	7.48	132.28	120.47
1	8m	76	GLU	CA-C-N	7.48	130.30	120.28
1	8m	76	GLU	C-N-CA	7.48	130.30	120.28
1	8P	229	ARG	NE-CZ-NH2	-7.48	112.47	119.20
1	9z	141	ILE	N-CA-C	7.48	118.25	110.62
1	9P	104	ILE	N-CA-CB	7.48	119.30	110.55
1	bl	120	HIS	CB-CG-CD2	-7.48	121.48	131.20
1	bK	134	ILE	O-C-N	-7.48	114.58	121.91
1	cZ	169	TYR	CB-CG-CD2	7.48	132.02	120.80
1	fO	134	ILE	O-C-N	-7.48	114.58	121.91
1	fV	85	PRO	CA-C-N	7.48	131.30	120.91
1	fV	85	PRO	C-N-CA	7.48	131.30	120.91
1	1	72	THR	CB-CA-C	-7.48	98.85	110.81
1	j2	126	VAL	O-C-N	-7.48	114.24	121.94
1	jq	142	VAL	CA-CB-CG1	7.48	123.11	110.40
1	k1	229	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	31	190	LEU	N-CA-C	7.48	119.07	111.07
1	5P	56	LEU	CA-C-O	7.48	128.34	120.42
1	93	47	ALA	N-CA-C	7.48	120.52	110.35
1	af	47	ALA	O-C-N	-7.48	114.51	122.96
1	aN	165	VAL	N-CA-C	7.48	118.25	110.62
1	bl	143	ARG	NE-CZ-NH1	7.48	128.98	121.50
1	bM	21	ASN	CB-CA-C	7.48	123.20	110.79
1	cN	184	TRP	N-CA-C	7.48	119.43	111.28
1	er	152	ASP	CA-C-N	7.48	133.43	121.09
1	er	152	ASP	C-N-CA	7.48	133.43	121.09
1	f8	65	ALA	CA-C-O	7.48	128.40	120.70
1	6	163	ASP	CA-C-N	7.48	130.16	120.44
1	6	163	ASP	C-N-CA	7.48	130.16	120.44
1	h3	126	VAL	CA-C-O	7.47	128.77	120.85
1	h8	212	GLU	N-CA-C	7.47	119.43	111.28
1	hr	36	VAL	O-C-N	-7.47	113.35	121.80
1	hx	103	ASP	CA-C-N	7.47	130.70	120.46
1	hx	103	ASP	C-N-CA	7.47	130.70	120.46
1	hL	57	ASN	CA-CB-CG	-7.47	105.12	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hZ	7	GLN	N-CA-C	7.47	121.81	112.24
1	iu	213	GLU	N-CA-C	7.47	119.43	111.28
1	iU	154	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	jf	183	ASN	CA-CB-CG	-7.47	105.13	112.60
1	jq	51	ASP	CA-C-N	7.47	130.61	120.44
1	jq	51	ASP	C-N-CA	7.47	130.61	120.44
1	jS	226	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	lG	10	MET	CA-C-N	7.47	130.74	120.35
1	lG	10	MET	C-N-CA	7.47	130.74	120.35
1	2E	191	VAL	N-CA-CB	7.47	119.29	110.55
1	42	90	PRO	CA-C-O	-7.47	113.17	121.32
1	4b	50	GLN	CB-CG-CD	7.47	125.31	112.60
1	4v	145	TYR	CB-CG-CD2	-7.47	109.59	120.80
1	4V	179	GLN	OE1-CD-NE2	-7.47	115.13	122.60
1	5V	229	ARG	CA-C-N	7.47	130.24	120.60
1	5V	229	ARG	C-N-CA	7.47	130.24	120.60
1	6U	166	ASP	CA-C-O	7.47	128.67	120.82
1	6X	67	GLN	CA-C-O	7.47	128.47	120.55
1	7o	64	ALA	CA-C-O	7.47	128.34	120.42
1	7M	170	LYS	N-CA-C	7.47	119.51	111.36
1	7O	202	LEU	N-CA-C	7.47	120.38	111.33
1	89	87	HIS	CB-CG-CD2	-7.47	121.48	131.20
1	8i	171	THR	N-CA-C	7.47	119.51	111.36
1	8t	134	ILE	N-CA-C	7.47	119.14	110.62
1	9Y	29	GLU	N-CA-C	7.47	119.12	110.97
1	ad	21	ASN	CA-CB-CG	7.47	120.07	112.60
1	aw	125	PRO	N-CA-CB	-7.47	97.86	102.79
1	b6	230	VAL	N-CA-CB	7.47	119.09	110.49
1	bT	21	ASN	CA-C-N	7.47	131.18	120.79
1	bT	21	ASN	C-N-CA	7.47	131.18	120.79
1	c4	68	MET	N-CA-C	7.47	119.43	111.28
1	1c	88	ALA	N-CA-C	7.47	121.17	109.96
1	dm	167	ARG	N-CA-C	7.47	119.51	111.36
1	dK	52	LEU	N-CA-C	7.47	119.43	111.28
1	eh	222	GLY	N-CA-C	7.47	123.87	112.81
1	eL	165	VAL	CA-C-N	7.47	130.30	120.28
1	eL	165	VAL	C-N-CA	7.47	130.30	120.28
1	fW	45	GLU	CA-C-O	-7.47	113.85	120.88
1	j	69	LEU	N-CA-C	7.47	119.07	111.07
1	gc	117	TRP	CB-CG-CD2	7.47	137.26	126.80
1	gS	18	ARG	NE-CZ-NH2	-7.47	112.47	119.20
1	ha	91	ILE	N-CA-C	-7.47	105.26	111.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hl	75	GLU	N-CA-C	7.47	120.37	111.33
1	1J	150	ILE	N-CA-C	7.47	118.21	110.36
1	ii	103	ASP	CA-C-N	7.47	131.07	120.53
1	ii	103	ASP	C-N-CA	7.47	131.07	120.53
1	ip	76	GLU	O-C-N	-7.47	114.20	122.12
1	iL	35	GLU	O-C-N	-7.47	113.48	122.22
1	iQ	28	GLU	CA-C-N	7.47	130.16	120.44
1	iQ	28	GLU	C-N-CA	7.47	130.16	120.44
1	jS	81	ASP	N-CA-C	7.47	119.42	111.28
1	kx	144	MET	CG-SD-CE	-7.47	84.46	100.90
1	kW	195	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	2q	79	GLU	CA-C-O	7.47	128.47	120.55
1	2M	136	LEU	CA-C-O	7.47	128.47	120.55
1	32	21	ASN	CA-CB-CG	7.47	120.07	112.60
1	3s	97	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	3N	48	THR	CA-CB-OG1	7.47	120.81	109.60
1	49	89	GLY	CA-C-N	7.47	129.18	119.84
1	49	89	GLY	C-N-CA	7.47	129.18	119.84
1	5i	21	ASN	O-C-N	-7.47	113.63	122.15
1	5J	156	GLY	CA-C-N	7.47	129.18	119.84
1	5J	156	GLY	C-N-CA	7.47	129.18	119.84
1	6I	214	MET	N-CA-C	7.47	120.49	111.82
1	7v	34	PRO	N-CA-C	7.47	124.64	113.81
1	7K	193	ASN	CA-CB-CG	7.47	120.07	112.60
1	7W	124	ILE	CA-C-O	-7.47	113.75	119.20
1	84	55	MET	N-CA-C	7.47	119.42	111.28
1	9D	167	ARG	CA-C-O	7.47	128.47	120.55
1	Z	88	ALA	CA-C-O	7.47	129.51	120.62
1	a3	120	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	a8	147	PRO	N-CA-C	7.47	123.44	111.26
1	ai	113	GLU	CA-C-N	7.47	130.15	120.44
1	ai	113	GLU	C-N-CA	7.47	130.15	120.44
1	aU	103	ASP	CA-CB-CG	-7.47	105.13	112.60
1	1a	195	ASN	O-C-N	-7.47	112.73	121.32
1	bP	9	GLN	OE1-CD-NE2	-7.47	115.13	122.60
1	cf	21	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	ci	83	LEU	N-CA-C	7.47	120.88	111.69
1	cq	126	VAL	CA-C-N	7.47	128.23	119.94
1	cq	126	VAL	C-N-CA	7.47	128.23	119.94
1	cu	115	ILE	CA-C-N	7.47	128.09	119.94
1	cu	115	ILE	C-N-CA	7.47	128.09	119.94
1	dA	193	ASN	CA-C-N	7.47	131.32	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dA	193	ASN	C-N-CA	7.47	131.32	120.71
1	1n	169	TYR	CA-C-O	-7.47	112.50	120.42
1	eM	5	ASN	CA-CB-CG	-7.47	105.13	112.60
1	f7	62	HIS	CA-CB-CG	-7.47	106.33	113.80
1	ff	167	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	fW	86	VAL	N-CA-C	7.47	121.59	109.78
1	fX	221	VAL	N-CA-C	7.47	117.59	110.42
1	d	62	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	w	103	ASP	CA-CB-CG	7.47	120.07	112.60
1	ic	65	ALA	CA-C-N	7.47	130.62	120.38
1	ic	65	ALA	C-N-CA	7.47	130.62	120.38
1	je	204	ALA	N-CA-C	7.47	119.50	111.36
1	k2	15	ILE	CA-C-O	7.47	129.22	121.23
1	kb	128	GLU	CA-C-N	7.47	130.70	120.46
1	kb	128	GLU	C-N-CA	7.47	130.70	120.46
1	le	12	HIS	ND1-CE1-NE2	7.47	115.87	108.40
1	lJ	58	THR	CA-C-N	7.47	130.57	120.63
1	lJ	58	THR	C-N-CA	7.47	130.57	120.63
1	2l	100	ARG	NE-CZ-NH2	-7.47	112.48	119.20
1	2W	159	GLU	N-CA-C	7.47	118.76	109.57
1	3e	213	GLU	N-CA-C	7.47	120.37	111.33
1	85	11	VAL	N-CA-C	7.47	119.24	108.48
1	99	40	PHE	CA-C-N	7.47	130.62	120.38
1	99	40	PHE	C-N-CA	7.47	130.62	120.38
1	9w	166	ASP	CA-CB-CG	7.47	120.07	112.60
1	9C	114	GLN	N-CA-C	7.47	119.42	111.28
1	ae	144	MET	N-CA-C	7.47	119.50	111.36
1	bg	92	GLU	CA-C-N	7.47	127.52	119.90
1	bg	92	GLU	C-N-CA	7.47	127.52	119.90
1	bs	21	ASN	CA-CB-CG	7.47	120.07	112.60
1	c8	160	PRO	CA-C-N	7.47	130.62	120.38
1	c8	160	PRO	C-N-CA	7.47	130.62	120.38
1	cC	91	ILE	N-CA-CB	7.47	119.08	110.49
1	gt	192	GLN	N-CA-C	7.47	120.37	111.33
1	gP	162	ARG	NE-CZ-NH2	7.47	125.92	119.20
1	gY	41	SER	N-CA-C	7.47	119.21	111.14
1	i7	207	PRO	O-C-N	-7.47	112.56	122.64
1	ir	75	GLU	O-C-N	-7.47	114.38	122.07
1	iY	200	THR	CA-C-N	7.47	129.97	120.56
1	iY	200	THR	C-N-CA	7.47	129.97	120.56
1	j0	82	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	j3	127	GLY	O-C-N	-7.47	114.14	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jj	86	VAL	O-C-N	-7.47	114.52	122.81
1	kr	162	ARG	N-CA-C	7.47	120.07	111.11
1	24	82	ARG	CA-C-N	7.47	130.15	120.44
1	24	82	ARG	C-N-CA	7.47	130.15	120.44
1	lj	33	SER	O-C-N	-7.47	116.58	121.88
1	lj	197	ASP	CA-CB-CG	-7.47	105.13	112.60
1	lk	191	VAL	O-C-N	-7.47	114.71	122.25
1	lF	41	SER	N-CA-CB	7.47	120.84	110.01
1	lH	139	ASN	CA-C-N	7.47	130.29	120.28
1	lH	139	ASN	C-N-CA	7.47	130.29	120.28
1	2m	226	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	2P	141	ILE	O-C-N	-7.47	114.62	121.87
1	3I	158	LYS	CA-C-N	7.47	130.81	120.65
1	3I	158	LYS	C-N-CA	7.47	130.81	120.65
1	4I	67	GLN	N-CA-C	7.47	119.42	111.28
1	4R	92	GLU	CA-C-O	-7.47	111.42	118.44
1	4W	38	PRO	N-CA-C	-7.47	103.78	113.57
1	5m	56	LEU	O-C-N	-7.47	114.20	122.12
1	69	84	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	7n	183	ASN	OD1-CG-ND2	-7.47	115.13	122.60
1	80	66	MET	N-CA-C	7.47	120.37	111.33
1	80	222	GLY	O-C-N	-7.47	115.67	122.77
1	8E	148	THR	CA-C-O	7.47	129.32	121.10
1	9E	20	LEU	CA-C-O	7.47	128.56	119.97
1	9K	193	ASN	CA-C-O	7.47	128.09	119.35
1	aG	132	ARG	NE-CZ-NH1	7.47	128.97	121.50
1	b2	199	LYS	O-C-N	-7.47	114.20	122.12
1	bo	149	SER	CA-C-N	7.47	132.55	120.30
1	bo	149	SER	C-N-CA	7.47	132.55	120.30
1	c8	214	MET	CA-C-N	7.47	130.61	120.38
1	c8	214	MET	C-N-CA	7.47	130.61	120.38
1	cX	32	PHE	CA-C-N	7.47	132.82	122.07
1	cX	32	PHE	C-N-CA	7.47	132.82	122.07
1	de	175	GLU	CA-C-O	7.47	129.41	121.19
1	dY	159	GLU	CA-C-N	7.47	127.10	119.56
1	dY	159	GLU	C-N-CA	7.47	127.10	119.56
1	f1	32	PHE	O-C-N	-7.47	113.07	122.26
1	f6	141	ILE	N-CA-C	7.47	118.24	110.62
1	1v	10	MET	N-CA-C	7.47	120.77	110.24
1	ff	14	ALA	CA-C-N	7.47	130.80	120.49
1	ff	14	ALA	C-N-CA	7.47	130.80	120.49
1	fA	80	TRP	CA-C-N	7.47	132.55	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fA	80	TRP	C-N-CA	7.47	132.55	120.60
1	hj	2	ILE	N-CA-CB	7.47	120.49	110.26
1	1O	184	TRP	O-C-N	-7.47	114.20	122.12
1	jd	12	HIS	CG-CD2-NE2	7.47	114.67	107.20
1	1V	112	GLN	N-CA-C	7.47	119.42	111.28
1	23	97	ARG	O-C-N	-7.47	114.70	123.06
1	lv	40	PHE	CA-C-N	7.47	130.15	120.44
1	lv	40	PHE	C-N-CA	7.47	130.15	120.44
1	3I	40	PHE	CA-CB-CG	-7.47	106.33	113.80
1	47	164	TYR	N-CA-C	7.47	119.50	111.36
1	5j	143	ARG	NE-CZ-NH2	7.47	125.92	119.20
1	6l	55	MET	CA-C-N	7.47	131.03	120.28
1	6l	55	MET	C-N-CA	7.47	131.03	120.28
1	aF	210	THR	O-C-N	-7.47	113.86	122.97
1	bk	82	ARG	CA-C-N	7.47	130.62	120.54
1	bk	82	ARG	C-N-CA	7.47	130.62	120.54
1	1h	162	ARG	NH1-CZ-NH2	-7.47	109.59	119.30
1	dM	215	MET	O-C-N	-7.47	114.20	122.12
1	1q	57	ASN	CA-CB-CG	-7.47	105.13	112.60
1	fp	95	GLN	CA-C-N	7.47	130.15	120.44
1	fp	95	GLN	C-N-CA	7.47	130.15	120.44
1	ga	156	GLY	CA-C-N	7.47	127.11	119.19
1	ga	156	GLY	C-N-CA	7.47	127.11	119.19
1	gO	52	LEU	CA-C-N	7.47	130.15	120.44
1	gO	52	LEU	C-N-CA	7.47	130.15	120.44
1	gV	13	GLN	OE1-CD-NE2	-7.47	115.13	122.60
1	hJ	168	PHE	CA-C-O	-7.47	112.57	120.63
1	if	16	SER	CA-C-N	7.47	127.34	119.05
1	if	16	SER	C-N-CA	7.47	127.34	119.05
1	ig	51	ASP	CA-CB-CG	-7.47	105.13	112.60
1	iN	24	VAL	O-C-N	-7.47	114.59	121.91
1	ju	141	ILE	N-CA-C	7.47	118.23	110.62
1	ka	199	LYS	CA-C-N	7.47	131.03	120.28
1	ka	199	LYS	C-N-CA	7.47	131.03	120.28
1	ky	217	ALA	N-CA-C	7.47	120.50	110.35
1	ly	226	HIS	CA-CB-CG	7.47	121.27	113.80
1	2u	36	VAL	O-C-N	-7.47	114.47	121.94
1	2G	14	ALA	CA-C-N	7.47	130.56	120.63
1	2G	14	ALA	C-N-CA	7.47	130.56	120.63
1	2U	187	GLU	N-CA-C	7.47	119.06	111.07
1	3e	2	ILE	CA-C-O	7.47	129.50	120.84
1	5f	180	GLU	CA-C-O	7.47	128.46	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5J	162	ARG	CA-C-N	7.47	130.29	120.28
1	5J	162	ARG	C-N-CA	7.47	130.29	120.28
1	69	4	GLN	N-CA-C	-7.47	101.89	113.02
1	6f	82	ARG	NE-CZ-NH2	-7.47	112.48	119.20
1	6L	84	HIS	CA-CB-CG	-7.47	106.33	113.80
1	7u	81	ASP	O-C-N	-7.47	114.20	122.12
1	7O	78	ALA	CA-C-N	7.47	130.59	120.44
1	7O	78	ALA	C-N-CA	7.47	130.59	120.44
1	7R	183	ASN	CA-C-O	7.47	128.46	120.55
1	80	143	ARG	NE-CZ-NH2	-7.47	112.48	119.20
1	87	137	GLY	CA-C-N	7.47	131.17	120.79
1	87	137	GLY	C-N-CA	7.47	131.17	120.79
1	8b	69	LEU	CA-C-N	7.47	130.28	120.28
1	8b	69	LEU	C-N-CA	7.47	130.28	120.28
1	8o	72	THR	N-CA-C	7.47	119.42	111.28
1	9k	73	ILE	CA-C-N	7.47	130.61	120.38
1	9k	73	ILE	C-N-CA	7.47	130.61	120.38
1	aZ	13	GLN	CA-C-O	7.47	129.31	120.20
1	bk	36	VAL	CA-C-N	7.47	126.30	120.33
1	bk	36	VAL	C-N-CA	7.47	126.30	120.33
1	bG	168	PHE	CA-CB-CG	-7.47	106.33	113.80
1	bT	35	GLU	CA-C-N	7.47	130.69	120.46
1	bT	35	GLU	C-N-CA	7.47	130.69	120.46
1	cl	194	ALA	CA-C-N	7.47	130.77	120.39
1	cl	194	ALA	C-N-CA	7.47	130.77	120.39
1	e6	36	VAL	CA-C-N	7.47	126.30	120.33
1	e6	36	VAL	C-N-CA	7.47	126.30	120.33
1	1p	195	ASN	CA-CB-CG	7.47	120.07	112.60
1	eJ	176	GLN	CA-C-N	7.47	131.73	121.05
1	eJ	176	GLN	C-N-CA	7.47	131.73	121.05
1	f2	176	GLN	CA-C-N	7.47	132.02	120.75
1	f2	176	GLN	C-N-CA	7.47	132.02	120.75
1	fv	4	GLN	CB-CA-C	7.47	125.28	110.42
1	fG	84	HIS	CE1-NE2-CD2	-7.47	101.53	109.00
1	g0	35	GLU	N-CA-C	7.47	120.30	111.71
1	o	123	PRO	CA-C-N	7.47	127.68	122.60
1	o	123	PRO	C-N-CA	7.47	127.68	122.60
1	y	133	TRP	CA-C-N	7.47	129.97	120.56
1	y	133	TRP	C-N-CA	7.47	129.97	120.56
1	M	113	GLU	CA-C-N	7.47	130.15	120.44
1	M	113	GLU	C-N-CA	7.47	130.15	120.44
1	1C	4	GLN	O-C-N	-7.46	115.43	123.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gW	86	VAL	CA-C-N	7.46	131.31	120.71
1	gW	86	VAL	C-N-CA	7.46	131.31	120.71
1	hD	114	GLN	N-CA-C	7.46	120.29	111.71
1	hF	143	ARG	CA-C-O	7.46	128.46	120.55
1	iB	220	GLY	CA-C-N	7.46	130.12	120.56
1	iB	220	GLY	C-N-CA	7.46	130.12	120.56
1	iN	113	GLU	CA-C-N	7.46	130.15	120.44
1	iN	113	GLU	C-N-CA	7.46	130.15	120.44
1	iR	179	GLN	N-CA-CB	7.46	121.06	109.94
1	ju	31	ALA	N-CA-C	7.46	119.42	111.28
1	kf	210	THR	O-C-N	-7.46	114.58	122.94
1	kx	184	TRP	CA-C-N	7.46	130.89	120.29
1	kx	184	TRP	C-N-CA	7.46	130.89	120.29
1	l8	193	ASN	CA-CB-CG	-7.46	105.14	112.60
1	28	176	GLN	N-CA-C	-7.46	104.17	113.28
1	3b	22	ALA	N-CA-C	7.46	119.42	111.28
1	3F	48	THR	N-CA-CB	7.46	118.40	109.74
1	3Q	29	GLU	N-CA-C	7.46	119.06	111.07
1	5s	87	HIS	ND1-CE1-NE2	7.46	115.86	108.40
1	5Z	87	HIS	O-C-N	-7.46	113.63	122.81
1	6w	37	ILE	CA-C-O	-7.46	112.50	118.85
1	84	144	MET	N-CA-C	7.46	120.36	111.33
1	8s	82	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	8I	162	ARG	NE-CZ-NH2	7.46	125.92	119.20
1	8K	162	ARG	N-CA-C	7.46	120.36	111.33
1	8T	83	LEU	N-CA-C	7.46	119.06	111.07
1	a3	135	ILE	CB-CA-C	7.46	121.52	111.97
1	a6	61	GLY	N-CA-C	7.46	123.93	112.51
1	b3	27	VAL	O-C-N	-7.46	113.37	121.80
1	bg	57	ASN	CA-CB-CG	-7.46	105.14	112.60
1	bG	60	GLY	O-C-N	-7.46	116.63	123.42
1	cn	82	ARG	NE-CZ-NH1	7.46	128.97	121.50
1	cL	89	GLY	CA-C-N	7.46	129.17	119.84
1	cL	89	GLY	C-N-CA	7.46	129.17	119.84
1	dY	140	LYS	CA-C-N	7.46	130.69	120.46
1	dY	140	LYS	C-N-CA	7.46	130.69	120.46
1	f7	142	VAL	N-CA-C	7.46	117.59	110.42
1	fa	204	ALA	N-CA-C	7.46	119.06	111.07
1	fe	226	HIS	N-CA-C	7.46	119.42	111.28
1	fg	66	MET	CA-C-N	7.46	130.28	120.28
1	fg	66	MET	C-N-CA	7.46	130.28	120.28
1	fi	113	GLU	CA-C-O	7.46	128.46	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	180	GLU	O-C-N	-7.46	114.21	122.12
1	m	97	ARG	NE-CZ-NH1	7.46	128.97	121.50
1	H	62	HIS	CG-CD2-NE2	7.46	114.66	107.20
1	U	173	ARG	CA-C-N	7.46	130.28	120.28
1	U	173	ARG	C-N-CA	7.46	130.28	120.28
1	gG	94	GLY	O-C-N	-7.46	112.91	122.39
1	hX	139	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	3T	14	ALA	O-C-N	-7.46	114.20	123.01
1	3Y	143	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	5P	74	ASN	CA-CB-CG	-7.46	105.14	112.60
1	6F	168	PHE	CB-CA-C	7.46	122.60	110.88
1	6Z	113	GLU	CA-C-N	7.46	130.14	120.44
1	6Z	113	GLU	C-N-CA	7.46	130.14	120.44
1	7b	79	GLU	N-CA-C	7.46	120.06	111.11
1	8h	87	HIS	CE1-NE2-CD2	-7.46	101.54	109.00
1	9W	167	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	a7	144	MET	N-CA-C	7.46	121.64	112.54
1	aq	139	ASN	N-CA-C	7.46	119.41	111.28
1	aI	184	TRP	CA-C-O	7.46	128.55	119.97
1	1k	69	LEU	CA-C-N	7.46	130.14	120.44
1	1k	69	LEU	C-N-CA	7.46	130.14	120.44
1	fk	121	ASN	CA-CB-CG	7.46	120.06	112.60
1	g8	94	GLY	CA-C-N	7.46	131.31	120.71
1	g8	94	GLY	C-N-CA	7.46	131.31	120.71
1	gh	124	ILE	O-C-N	-7.46	115.08	121.57
1	gX	24	VAL	CB-CA-C	7.46	122.21	112.14
1	hx	80	TRP	CB-CG-CD2	-7.46	116.35	126.80
1	1L	74	ASN	CA-C-O	7.46	128.46	120.55
1	iN	9	GLN	O-C-N	-7.46	114.42	123.30
1	iX	33	SER	CA-C-O	-7.46	112.60	120.28
1	ks	169	TYR	N-CA-C	7.46	119.41	111.28
1	kB	50	GLN	N-CA-C	7.46	119.41	111.28
1	25	70	LYS	CA-C-O	7.46	128.55	119.97
1	lh	34	PRO	N-CA-CB	-7.46	95.33	103.39
1	2u	223	GLY	CA-C-N	7.46	128.44	120.83
1	2u	223	GLY	C-N-CA	7.46	128.44	120.83
1	2I	25	LYS	N-CA-C	7.46	119.49	111.36
1	3i	119	THR	CA-C-O	7.46	127.11	118.90
1	3l	125	PRO	CA-C-N	7.46	130.22	120.60
1	3l	125	PRO	C-N-CA	7.46	130.22	120.60
1	3z	12	HIS	ND1-CE1-NE2	7.46	115.86	108.40
1	3L	25	LYS	N-CA-C	7.46	119.05	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3V	143	ARG	N-CA-C	7.46	119.05	111.07
1	49	156	GLY	O-C-N	-7.46	114.31	121.77
1	4s	9	GLN	N-CA-C	-7.46	103.91	113.16
1	6q	42	ALA	O-C-N	-7.46	114.21	122.12
1	8i	137	GLY	N-CA-C	7.46	121.16	112.50
1	8V	201	ILE	N-CA-C	7.46	118.26	110.72
1	9I	144	MET	N-CA-C	7.46	119.41	111.28
1	Y	89	GLY	CA-C-N	7.46	127.73	119.90
1	Y	89	GLY	C-N-CA	7.46	127.73	119.90
1	aR	10	MET	N-CA-C	7.46	121.21	110.24
1	aS	24	VAL	CA-C-N	7.46	130.14	120.44
1	aS	24	VAL	C-N-CA	7.46	130.14	120.44
1	bE	113	GLU	CA-C-N	7.46	130.28	120.28
1	bE	113	GLU	C-N-CA	7.46	130.28	120.28
1	cZ	82	ARG	NE-CZ-NH2	-7.46	112.48	119.20
1	dw	181	VAL	CA-C-O	-7.46	112.94	120.85
1	dD	25	LYS	CA-C-N	7.46	129.96	120.56
1	dD	25	LYS	C-N-CA	7.46	129.96	120.56
1	dJ	21	ASN	N-CA-C	7.46	120.36	111.33
1	dV	201	ILE	CA-C-N	7.46	130.14	120.44
1	dV	201	ILE	C-N-CA	7.46	130.14	120.44
1	ef	189	LEU	N-CA-C	7.46	119.49	111.36
1	eg	100	ARG	CA-C-N	7.46	128.39	120.03
1	eg	100	ARG	C-N-CA	7.46	128.39	120.03
1	ei	162	ARG	N-CA-C	7.46	119.05	111.07
1	et	26	VAL	N-CA-C	7.46	117.99	110.23
1	s	6	LEU	N-CA-C	7.46	119.41	111.28
1	X	48	THR	N-CA-CB	7.46	120.11	110.04
1	hd	185	MET	N-CA-C	7.46	120.06	111.11
1	hA	79	GLU	CA-C-N	7.46	130.61	120.54
1	hA	79	GLU	C-N-CA	7.46	130.61	120.54
1	kb	132	ARG	NH1-CZ-NH2	-7.46	109.60	119.30
1	kc	114	GLN	OE1-CD-NE2	-7.46	115.14	122.60
1	lm	164	TYR	N-CA-C	7.46	120.36	111.33
1	ly	23	TRP	CA-C-N	7.46	129.96	120.56
1	ly	23	TRP	C-N-CA	7.46	129.96	120.56
1	43	51	ASP	CA-C-O	7.46	128.65	120.82
1	4p	110	THR	O-C-N	-7.46	114.19	122.84
1	5G	37	ILE	O-C-N	-7.46	115.65	120.42
1	6M	200	THR	O-C-N	-7.46	113.65	122.15
1	6O	144	MET	N-CA-C	7.46	119.49	111.36
1	dw	223	GLY	CA-C-N	7.46	129.16	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dw	223	GLY	C-N-CA	7.46	129.16	119.84
1	eF	164	TYR	CA-C-N	7.46	131.01	120.42
1	eF	164	TYR	C-N-CA	7.46	131.01	120.42
1	fM	33	SER	O-C-N	-7.46	113.69	121.60
1	io	182	LYS	CA-C-N	7.46	130.28	120.28
1	io	182	LYS	C-N-CA	7.46	130.28	120.28
1	j7	139	ASN	O-C-N	-7.46	114.21	122.12
1	jb	226	HIS	CA-C-N	7.46	131.42	120.90
1	jb	226	HIS	C-N-CA	7.46	131.42	120.90
1	jo	59	VAL	N-CA-C	7.46	119.44	109.37
1	jr	84	HIS	CE1-NE2-CD2	-7.46	101.54	109.00
1	kd	141	ILE	N-CA-C	7.46	117.58	110.42
1	kL	110	THR	O-C-N	-7.46	114.60	123.03
1	lo	229	ARG	NE-CZ-NH2	7.46	125.91	119.20
1	30	210	THR	N-CA-CB	7.46	120.91	110.17
1	4S	28	GLU	O-C-N	-7.46	114.39	122.07
1	6i	5	ASN	CA-CB-CG	7.46	120.06	112.60
1	6C	117	TRP	O-C-N	7.46	130.03	122.12
1	6X	19	THR	N-CA-C	7.46	119.49	111.36
1	70	68	MET	N-CA-C	7.46	119.05	111.07
1	7W	205	LEU	CA-C-O	-7.46	112.99	120.82
1	8D	197	ASP	CA-C-N	7.46	130.28	120.28
1	8D	197	ASP	C-N-CA	7.46	130.28	120.28
1	9m	61	GLY	O-C-N	-7.46	115.55	122.93
1	9o	187	GLU	CA-C-O	7.46	128.65	120.82
1	9P	97	ARG	NE-CZ-NH2	-7.46	112.49	119.20
1	ad	148	THR	N-CA-CB	7.46	120.94	109.97
1	ar	164	TYR	CA-C-N	7.46	130.22	120.60
1	ar	164	TYR	C-N-CA	7.46	130.22	120.60
1	aK	4	GLN	CA-C-N	7.46	131.65	120.31
1	aK	4	GLN	C-N-CA	7.46	131.65	120.31
1	aR	58	THR	CA-CB-OG1	7.46	120.79	109.60
1	d7	48	THR	O-C-N	-7.46	113.33	121.53
1	dC	76	GLU	CA-C-N	7.46	130.28	120.28
1	dC	76	GLU	C-N-CA	7.46	130.28	120.28
1	eH	19	THR	N-CA-CB	7.46	120.83	110.01
1	f4	123	PRO	O-C-N	-7.46	114.43	123.01
1	f7	110	THR	CA-C-N	7.46	130.61	120.54
1	f7	110	THR	C-N-CA	7.46	130.61	120.54
1	A	57	ASN	N-CA-C	7.46	119.49	111.36
1	V	50	GLN	CA-C-N	7.46	130.27	120.28
1	V	50	GLN	C-N-CA	7.46	130.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gr	51	ASP	N-CA-CB	7.46	121.08	110.12
1	if	164	TYR	CA-C-N	7.46	130.22	120.60
1	if	164	TYR	C-N-CA	7.46	130.22	120.60
1	jP	209	ALA	N-CA-C	7.46	121.20	110.24
1	jR	74	ASN	CA-CB-CG	-7.46	105.14	112.60
1	jX	195	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	kZ	103	ASP	CA-CB-CG	-7.46	105.14	112.60
1	lO	173	ARG	NH1-CZ-NH2	-7.46	109.61	119.30
1	30	55	MET	N-CA-C	7.46	119.41	111.28
1	3r	57	ASN	CA-C-N	7.46	130.27	120.28
1	3r	57	ASN	C-N-CA	7.46	130.27	120.28
1	4s	50	GLN	CA-C-O	7.46	128.65	120.82
1	4v	159	GLU	CA-C-N	7.46	129.16	119.84
1	4v	159	GLU	C-N-CA	7.46	129.16	119.84
1	4D	212	GLU	CA-C-N	7.46	130.88	120.29
1	4D	212	GLU	C-N-CA	7.46	130.88	120.29
1	5e	229	ARG	NE-CZ-NH1	-7.46	114.04	121.50
1	5Q	96	MET	CA-C-O	7.46	130.05	121.47
1	5Y	82	ARG	N-CA-C	7.46	119.41	111.28
1	5Y	146	SER	N-CA-C	7.46	122.94	113.25
1	6h	138	LEU	CA-C-N	7.46	130.61	120.54
1	6h	138	LEU	C-N-CA	7.46	130.61	120.54
1	6h	182	LYS	N-CA-CB	7.46	121.20	110.16
1	6C	223	GLY	CA-C-N	7.46	127.50	119.90
1	6C	223	GLY	C-N-CA	7.46	127.50	119.90
1	7g	143	ARG	NE-CZ-NH2	7.46	125.91	119.20
1	8t	69	LEU	O-C-N	-7.46	114.33	122.09
1	9b	85	PRO	N-CA-CB	7.46	108.17	102.36
1	9S	74	ASN	OD1-CG-ND2	7.46	130.06	122.60
1	a4	216	THR	CA-C-O	-7.46	112.99	120.82
1	az	183	ASN	N-CA-C	7.46	120.35	111.33
1	aC	216	THR	CA-CB-OG1	7.46	120.78	109.60
1	bk	13	GLN	OE1-CD-NE2	-7.46	115.14	122.60
1	c9	226	HIS	CA-CB-CG	-7.46	106.34	113.80
1	cr	200	THR	CA-C-N	7.46	131.01	120.42
1	cr	200	THR	C-N-CA	7.46	131.01	120.42
1	cs	217	ALA	O-C-N	-7.46	114.21	123.01
1	cD	182	LYS	N-CA-C	7.46	119.41	111.28
1	cE	209	ALA	N-CA-C	7.46	126.68	110.80
1	cS	32	PHE	CA-CB-CG	-7.46	106.34	113.80
1	d6	226	HIS	N-CA-C	7.46	121.68	111.54
1	d9	6	LEU	CA-C-N	7.46	135.78	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d9	6	LEU	C-N-CA	7.46	135.78	121.54
1	dk	12	HIS	N-CA-C	7.46	120.79	109.23
1	dn	162	ARG	N-CA-C	7.46	119.41	111.28
1	1k	173	ARG	NE-CZ-NH2	-7.46	112.49	119.20
1	dp	117	TRP	N-CA-C	7.46	119.05	111.07
1	dT	107	THR	CA-C-O	7.46	128.00	119.27
1	eb	207	PRO	N-CA-C	7.46	123.42	111.26
1	ex	139	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	f8	112	GLN	OE1-CD-NE2	-7.46	115.14	122.60
1	fF	203	LYS	CA-C-N	7.46	130.13	120.44
1	fF	203	LYS	C-N-CA	7.46	130.13	120.44
1	fM	37	ILE	CA-C-N	7.46	128.09	120.04
1	fM	37	ILE	C-N-CA	7.46	128.09	120.04
1	fX	6	LEU	CA-C-N	7.46	130.61	120.54
1	fX	6	LEU	C-N-CA	7.46	130.61	120.54
1	g0	82	ARG	N-CA-C	7.46	119.41	111.28
1	l	170	LYS	CA-C-N	7.46	130.58	120.44
1	l	170	LYS	C-N-CA	7.46	130.58	120.44
1	s	25	LYS	CA-C-N	7.46	131.01	120.42
1	s	25	LYS	C-N-CA	7.46	131.01	120.42
1	4	2	ILE	N-CA-C	7.46	119.64	108.23
1	go	97	ARG	NE-CZ-NH1	7.46	128.96	121.50
1	gt	51	ASP	CB-CA-C	-7.46	99.18	110.88
1	h2	87	HIS	CA-CB-CG	7.46	121.25	113.80
1	he	143	ARG	O-C-N	7.46	130.02	122.12
1	iw	121	ASN	OD1-CG-ND2	-7.46	115.14	122.60
1	iF	207	PRO	N-CA-C	-7.46	105.03	114.35
1	jD	14	ALA	CA-C-N	7.46	130.49	120.50
1	jD	14	ALA	C-N-CA	7.46	130.49	120.50
1	kn	19	THR	N-CA-CB	7.46	121.19	110.16
1	kz	116	GLY	O-C-N	-7.46	115.02	122.18
1	42	52	LEU	O-C-N	-7.46	114.22	122.12
1	4W	10	MET	CG-SD-CE	-7.46	84.50	100.90
1	6i	223	GLY	O-C-N	-7.46	114.31	121.77
1	ag	70	LYS	CA-C-N	7.46	130.27	120.28
1	ag	70	LYS	C-N-CA	7.46	130.27	120.28
1	ak	160	PRO	CA-C-N	7.46	130.27	120.28
1	ak	160	PRO	C-N-CA	7.46	130.27	120.28
1	c7	125	PRO	CA-C-N	7.46	130.67	120.46
1	c7	125	PRO	C-N-CA	7.46	130.67	120.46
1	ch	18	ARG	CA-C-O	7.46	128.45	120.55
1	cw	166	ASP	N-CA-C	7.46	120.35	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	149	SER	N-CA-CB	7.46	123.09	110.49
1	cZ	55	MET	CG-SD-CE	-7.46	84.50	100.90
1	eg	140	LYS	N-CA-C	7.46	119.41	111.28
1	eI	186	THR	CA-C-O	7.46	128.45	120.55
1	eV	185	MET	CA-C-O	7.46	128.45	120.55
1	gy	204	ALA	CA-C-O	7.45	128.54	119.97
1	1M	87	HIS	O-C-N	-7.45	114.06	122.86
1	ip	210	THR	CA-C-N	7.45	130.88	120.29
1	ip	210	THR	C-N-CA	7.45	130.88	120.29
1	j0	27	VAL	CA-CB-CG2	7.45	123.07	110.40
1	ju	56	LEU	N-CA-C	7.45	119.04	111.07
1	jL	134	ILE	O-C-N	-7.45	114.64	121.87
1	24	185	MET	N-CA-CB	7.45	121.08	110.12
1	2m	29	GLU	N-CA-C	7.45	119.48	111.36
1	2z	21	ASN	N-CA-C	7.45	119.48	111.36
1	2T	47	ALA	N-CA-C	7.45	121.04	110.23
1	4d	103	ASP	N-CA-CB	7.45	120.82	110.01
1	4H	84	HIS	CA-C-N	7.45	129.16	119.84
1	4H	84	HIS	C-N-CA	7.45	129.16	119.84
1	4K	184	TRP	CB-CG-CD1	-7.45	115.72	126.90
1	4L	112	GLN	CA-C-N	7.45	130.13	120.44
1	4L	112	GLN	C-N-CA	7.45	130.13	120.44
1	53	78	ALA	CA-C-N	7.45	130.27	120.28
1	53	78	ALA	C-N-CA	7.45	130.27	120.28
1	5r	41	SER	CA-C-O	-7.45	112.99	120.82
1	72	50	GLN	N-CA-C	7.45	119.05	111.07
1	85	50	GLN	N-CA-C	7.45	119.40	111.28
1	8c	5	ASN	N-CA-C	-7.45	104.71	113.88
1	8e	141	ILE	N-CA-C	7.45	118.22	110.62
1	8F	142	VAL	N-CA-C	7.45	118.22	110.62
1	9f	48	THR	N-CA-CB	7.45	120.84	110.03
1	11	100	ARG	CA-C-N	7.45	128.25	119.98
1	11	100	ARG	C-N-CA	7.45	128.25	119.98
1	aK	175	GLU	N-CA-C	7.45	120.49	110.35
1	bl	229	ARG	NE-CZ-NH2	-7.45	112.49	119.20
1	bM	195	ASN	CA-CB-CG	7.45	120.05	112.60
1	bV	115	ILE	O-C-N	-7.45	114.15	121.83
1	ci	219	GLN	CA-C-N	7.45	132.06	122.00
1	ci	219	GLN	C-N-CA	7.45	132.06	122.00
1	d6	82	ARG	CA-C-N	7.45	130.87	120.29
1	d6	82	ARG	C-N-CA	7.45	130.87	120.29
1	ec	229	ARG	NE-CZ-NH1	7.45	128.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ey	33	SER	O-C-N	-7.45	114.18	121.56
1	fk	41	SER	CA-C-N	7.45	130.27	120.28
1	fk	41	SER	C-N-CA	7.45	130.27	120.28
1	fl	19	THR	CA-C-O	7.45	128.45	120.55
1	fL	61	GLY	N-CA-C	7.45	120.53	112.33
1	fO	95	GLN	CA-C-N	7.45	131.41	120.90
1	fO	95	GLN	C-N-CA	7.45	131.41	120.90
1	q	167	ARG	N-CA-C	7.45	119.19	111.14
1	gB	154	ARG	NE-CZ-NH2	-7.45	112.49	119.20
1	1H	132	ARG	CA-C-N	7.45	130.26	120.28
1	1H	132	ARG	C-N-CA	7.45	130.26	120.28
1	h8	6	LEU	CA-C-N	7.45	131.64	120.31
1	h8	6	LEU	C-N-CA	7.45	131.64	120.31
1	hQ	20	LEU	CA-C-O	7.45	128.45	120.55
1	iJ	226	HIS	CE1-NE2-CD2	-7.45	101.55	109.00
1	jp	89	GLY	CA-C-N	7.45	129.16	119.84
1	jp	89	GLY	C-N-CA	7.45	129.16	119.84
1	2b	126	VAL	N-CA-C	7.45	117.57	110.42
1	3n	175	GLU	CA-C-O	7.45	129.49	121.44
1	4V	102	SER	CA-C-O	7.45	128.45	120.55
1	85	209	ALA	O-C-N	-7.45	114.07	122.86
1	8K	172	LEU	CA-C-N	7.45	130.59	120.38
1	8K	172	LEU	C-N-CA	7.45	130.59	120.38
1	aN	215	MET	N-CA-C	-7.45	104.64	113.21
1	bb	200	THR	CA-C-N	7.45	129.95	120.56
1	bb	200	THR	C-N-CA	7.45	129.95	120.56
1	1b	24	VAL	N-CA-C	7.45	118.22	110.62
1	1q	39	MET	CA-C-N	7.45	130.87	120.29
1	1q	39	MET	C-N-CA	7.45	130.87	120.29
1	fJ	223	GLY	CA-C-N	7.45	126.97	118.85
1	fJ	223	GLY	C-N-CA	7.45	126.97	118.85
1	fT	128	GLU	CA-C-N	7.45	130.21	120.60
1	fT	128	GLU	C-N-CA	7.45	130.21	120.60
1	1D	11	VAL	CA-C-N	7.45	131.32	120.82
1	1D	11	VAL	C-N-CA	7.45	131.32	120.82
1	gw	143	ARG	NE-CZ-NH2	7.45	125.91	119.20
1	gQ	84	HIS	O-C-N	-7.45	113.09	121.36
1	hq	162	ARG	NE-CZ-NH1	7.45	128.95	121.50
1	1M	167	ARG	CA-C-O	7.45	128.45	120.55
1	ic	185	MET	CA-C-N	7.45	130.12	120.44
1	ic	185	MET	C-N-CA	7.45	130.12	120.44
1	jt	34	PRO	O-C-N	7.45	131.19	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	154	ARG	NE-CZ-NH2	-7.45	112.49	119.20
1	ku	137	GLY	CA-C-N	7.45	131.01	120.28
1	ku	137	GLY	C-N-CA	7.45	131.01	120.28
1	kI	33	SER	O-C-N	-7.45	116.21	121.65
1	kZ	92	GLU	CA-C-N	7.45	127.81	119.32
1	kZ	92	GLU	C-N-CA	7.45	127.81	119.32
1	l3	9	GLN	N-CA-C	7.45	121.83	109.46
1	lx	167	ARG	N-CA-C	7.45	119.04	111.07
1	lF	15	ILE	CA-C-N	7.45	130.78	120.65
1	lF	15	ILE	C-N-CA	7.45	130.78	120.65
1	2D	168	PHE	N-CA-C	7.45	119.04	111.07
1	2T	132	ARG	CA-C-N	7.45	130.12	120.44
1	2T	132	ARG	C-N-CA	7.45	130.12	120.44
1	3x	32	PHE	CA-CB-CG	-7.45	106.35	113.80
1	3N	195	ASN	CA-C-N	7.45	129.15	119.84
1	3N	195	ASN	C-N-CA	7.45	129.15	119.84
1	4d	24	VAL	CA-C-N	7.45	130.60	120.54
1	4d	24	VAL	C-N-CA	7.45	130.60	120.54
1	5l	142	VAL	N-CA-C	7.45	118.18	110.36
1	5p	182	LYS	N-CA-C	7.45	119.40	111.28
1	5A	3	VAL	CA-C-N	7.45	131.01	120.28
1	5A	3	VAL	C-N-CA	7.45	131.01	120.28
1	5J	198	CYS	N-CA-C	7.45	119.04	111.07
1	5M	21	ASN	N-CA-C	7.45	119.40	111.28
1	7t	77	ALA	N-CA-C	7.45	120.28	111.71
1	7R	12	HIS	CG-CD2-NE2	7.45	114.65	107.20
1	99	50	GLN	N-CA-C	7.45	119.40	111.28
1	9g	136	LEU	CA-C-N	7.45	128.19	120.00
1	9g	136	LEU	C-N-CA	7.45	128.19	120.00
1	9m	32	PHE	CA-CB-CG	-7.45	106.35	113.80
1	9u	197	ASP	CA-CB-CG	7.45	120.05	112.60
1	10	116	GLY	N-CA-C	7.45	121.67	112.73
1	ao	165	VAL	N-CA-C	7.45	118.25	110.72
1	au	150	ILE	N-CA-C	7.45	120.36	111.05
1	15	24	VAL	CB-CA-C	7.45	121.51	111.97
1	18	211	LEU	CA-C-N	7.45	130.59	120.38
1	18	211	LEU	C-N-CA	7.45	130.59	120.38
1	bC	159	GLU	CA-C-N	7.45	127.45	119.78
1	bC	159	GLU	C-N-CA	7.45	127.45	119.78
1	bH	128	GLU	CA-C-O	7.45	128.32	120.42
1	c1	144	MET	N-CA-C	7.45	120.28	111.71
1	ci	162	ARG	NE-CZ-NH1	7.45	128.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	185	MET	CA-C-N	7.45	131.01	120.28
1	cx	185	MET	C-N-CA	7.45	131.01	120.28
1	dd	200	THR	CA-C-N	7.45	131.03	120.53
1	dd	200	THR	C-N-CA	7.45	131.03	120.53
1	dE	49	PRO	CA-C-N	7.45	130.26	120.28
1	dE	49	PRO	C-N-CA	7.45	130.26	120.28
1	ef	226	HIS	CA-CB-CG	7.45	121.25	113.80
1	eB	136	LEU	O-C-N	-7.45	114.22	122.12
1	f8	211	LEU	CA-C-N	7.45	130.60	120.54
1	f8	211	LEU	C-N-CA	7.45	130.60	120.54
1	g6	85	PRO	N-CA-CB	-7.45	97.87	102.79
1	hi	186	THR	N-CA-C	7.45	119.48	111.36
1	id	81	ASP	N-CA-C	7.45	119.40	111.28
1	iA	195	ASN	OD1-CG-ND2	-7.45	115.15	122.60
1	jA	23	TRP	CA-C-O	-7.45	113.03	120.70
1	kl	162	ARG	NE-CZ-NH1	7.45	128.95	121.50
1	kp	215	MET	CA-C-N	7.45	130.26	120.28
1	kp	215	MET	C-N-CA	7.45	130.26	120.28
1	kD	148	THR	O-C-N	7.45	131.34	122.85
1	2j	23	TRP	N-CA-C	7.45	119.04	111.07
1	2W	55	MET	CA-C-N	7.45	130.26	120.28
1	2W	55	MET	C-N-CA	7.45	130.26	120.28
1	38	12	HIS	CA-CB-CG	7.45	121.25	113.80
1	3C	171	THR	N-CA-C	7.45	119.04	111.07
1	3P	74	ASN	CA-CB-CG	-7.45	105.15	112.60
1	4P	50	GLN	OE1-CD-NE2	-7.45	115.15	122.60
1	5f	100	ARG	NE-CZ-NH2	-7.45	112.50	119.20
1	5k	59	VAL	N-CA-C	7.45	117.57	110.42
1	7z	180	GLU	N-CA-C	7.45	119.40	111.28
1	7M	69	LEU	CA-C-N	7.45	130.87	120.29
1	7M	69	LEU	C-N-CA	7.45	130.87	120.29
1	8A	72	THR	N-CA-CB	7.45	121.04	109.94
1	8O	40	PHE	N-CA-C	7.45	119.40	111.28
1	96	58	THR	CA-C-O	7.45	127.97	119.18
1	9Y	171	THR	CA-C-N	7.45	131.63	120.31
1	9Y	171	THR	C-N-CA	7.45	131.63	120.31
1	ad	81	ASP	CA-CB-CG	-7.45	105.15	112.60
1	bd	156	GLY	CA-C-O	-7.45	115.23	122.46
1	bf	146	SER	O-C-N	-7.45	114.67	121.30
1	cj	191	VAL	CA-C-N	7.45	130.48	120.65
1	cj	191	VAL	C-N-CA	7.45	130.48	120.65
1	cU	166	ASP	CA-C-N	7.45	130.58	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cU	166	ASP	C-N-CA	7.45	130.58	120.38
1	dt	155	GLN	CG-CD-NE2	7.45	127.57	116.40
1	ft	192	GLN	N-CA-C	7.45	119.40	111.28
1	0	59	VAL	O-C-N	-7.45	115.39	122.09
1	k	165	VAL	CA-C-N	7.45	130.87	120.29
1	k	165	VAL	C-N-CA	7.45	130.87	120.29
1	3W	140	LYS	CA-C-N	7.45	130.66	120.46
1	3W	140	LYS	C-N-CA	7.45	130.66	120.46
1	4z	164	TYR	N-CA-C	7.45	120.27	111.71
1	5B	201	ILE	N-CA-C	-7.45	105.41	111.81
1	6b	212	GLU	CA-C-N	7.45	130.87	120.29
1	6b	212	GLU	C-N-CA	7.45	130.87	120.29
1	6z	53	ASN	N-CA-CB	7.45	121.07	110.12
1	70	124	ILE	CA-C-O	7.45	124.64	119.20
1	7P	87	HIS	CB-CG-CD2	-7.45	121.52	131.20
1	av	218	CYS	CA-C-N	7.45	134.72	122.73
1	av	218	CYS	C-N-CA	7.45	134.72	122.73
1	aO	8	GLY	O-C-N	7.45	132.38	122.70
1	aT	115	ILE	N-CA-CB	7.45	120.67	110.54
1	aT	120	HIS	CE1-NE2-CD2	-7.45	101.55	109.00
1	ds	12	HIS	CE1-NE2-CD2	-7.45	101.55	109.00
1	0	37	ILE	O-C-N	-7.45	115.65	120.42
1	j	174	ALA	N-CA-C	7.45	119.40	111.28
1	1E	189	LEU	N-CA-C	7.45	120.34	111.33
1	hZ	159	GLU	N-CA-C	7.45	119.28	109.83
1	iE	37	ILE	CA-C-N	7.45	127.08	119.19
1	iE	37	ILE	C-N-CA	7.45	127.08	119.19
1	jy	103	ASP	CA-CB-CG	-7.45	105.15	112.60
1	jX	162	ARG	CA-C-N	7.45	130.59	120.54
1	jX	162	ARG	C-N-CA	7.45	130.59	120.54
1	ki	82	ARG	CA-C-N	7.45	130.26	120.28
1	ki	82	ARG	C-N-CA	7.45	130.26	120.28
1	29	68	MET	N-CA-C	7.45	120.05	111.11
1	lG	33	SER	CA-C-O	-7.45	112.96	120.63
1	2H	68	MET	N-CA-C	7.45	119.40	111.28
1	4L	32	PHE	CA-CB-CG	-7.45	106.35	113.80
1	5c	141	ILE	N-CA-C	7.45	117.57	110.42
1	6o	53	ASN	CA-CB-CG	-7.45	105.16	112.60
1	7i	193	ASN	CA-CB-CG	-7.45	105.16	112.60
1	7q	84	HIS	CA-C-O	-7.45	112.74	119.59
1	80	173	ARG	CA-C-N	7.45	133.34	120.68
1	80	173	ARG	C-N-CA	7.45	133.34	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	82	181	VAL	CB-CA-C	7.45	122.22	112.24
1	ac	168	PHE	CA-C-N	7.45	130.59	120.54
1	ac	168	PHE	C-N-CA	7.45	130.59	120.54
1	aD	163	ASP	CA-CB-CG	7.45	120.05	112.60
1	aJ	4	GLN	OE1-CD-NE2	-7.45	115.15	122.60
1	aO	197	ASP	N-CA-C	-7.45	104.17	113.18
1	aW	64	ALA	CA-C-N	7.45	130.86	120.29
1	aW	64	ALA	C-N-CA	7.45	130.86	120.29
1	aX	142	VAL	CA-C-N	7.45	130.12	120.44
1	aX	142	VAL	C-N-CA	7.45	130.12	120.44
1	aX	154	ARG	N-CA-CB	7.45	121.07	109.83
1	bd	91	ILE	N-CA-C	7.45	118.59	108.17
1	bg	81	ASP	CA-CB-CG	-7.45	105.15	112.60
1	bO	64	ALA	O-C-N	-7.45	114.29	122.03
1	1g	214	MET	N-CA-C	7.45	119.40	111.28
1	1i	195	ASN	CA-C-N	7.45	129.15	119.84
1	1i	195	ASN	C-N-CA	7.45	129.15	119.84
1	1l	22	ALA	CA-C-N	7.45	130.26	120.28
1	1l	22	ALA	C-N-CA	7.45	130.26	120.28
1	1m	136	LEU	CA-C-N	7.45	128.19	120.00
1	1m	136	LEU	C-N-CA	7.45	128.19	120.00
1	eM	95	GLN	CA-C-O	7.45	129.26	120.70
1	fS	2	ILE	N-CA-C	7.45	120.35	109.63
1	1A	49	PRO	O-C-N	-7.45	113.68	122.24
1	g3	137	GLY	O-C-N	-7.45	114.97	122.19
1	h	174	ALA	N-CA-C	7.45	120.34	111.33
1	p	39	MET	CA-C-N	7.45	130.59	120.54
1	p	39	MET	C-N-CA	7.45	130.59	120.54
1	gH	150	ILE	CA-C-N	7.44	131.00	120.28
1	gH	150	ILE	C-N-CA	7.44	131.00	120.28
1	iD	119	THR	CA-CB-OG1	7.44	120.77	109.60
1	iE	61	GLY	O-C-N	-7.44	113.01	122.84
1	j6	116	GLY	CA-C-N	7.44	130.12	120.44
1	j6	116	GLY	C-N-CA	7.44	130.12	120.44
1	jX	139	ASN	CA-CB-CG	7.44	120.04	112.60
1	l3	25	LYS	N-CA-C	7.44	120.45	111.82
1	2f	195	ASN	O-C-N	-7.44	113.71	121.60
1	2j	124	ILE	N-CA-CB	7.44	120.39	111.23
1	2m	171	THR	CA-C-N	7.44	130.59	120.54
1	2m	171	THR	C-N-CA	7.44	130.59	120.54
1	2t	116	GLY	CA-C-N	7.44	130.59	120.54
1	2t	116	GLY	C-N-CA	7.44	130.59	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2P	62	HIS	CE1-NE2-CD2	-7.44	101.56	109.00
1	3Z	156	GLY	O-C-N	-7.44	114.33	121.77
1	43	184	TRP	O-C-N	-7.44	114.23	122.12
1	4v	100	ARG	O-C-N	-7.44	113.57	122.65
1	53	212	GLU	CA-C-N	7.44	130.25	120.28
1	53	212	GLU	C-N-CA	7.44	130.25	120.28
1	5n	124	ILE	O-C-N	-7.44	116.68	121.37
1	5s	110	THR	CA-C-N	7.44	131.62	120.31
1	5s	110	THR	C-N-CA	7.44	131.62	120.31
1	6L	57	ASN	N-CA-C	7.44	121.80	112.87
1	7D	81	ASP	CA-CB-CG	7.44	120.04	112.60
1	8f	34	PRO	CA-C-N	7.44	131.62	120.31
1	8f	34	PRO	C-N-CA	7.44	131.62	120.31
1	8J	89	GLY	CA-C-O	-7.44	113.80	121.62
1	8X	113	GLU	CA-C-N	7.44	130.12	120.44
1	8X	113	GLU	C-N-CA	7.44	130.12	120.44
1	ak	84	HIS	CB-CA-C	-7.44	99.37	109.42
1	au	42	ALA	CA-C-O	7.44	128.31	120.42
1	aI	211	LEU	CA-C-N	7.44	130.12	120.44
1	aI	211	LEU	C-N-CA	7.44	130.12	120.44
1	dT	68	MET	O-C-N	-7.44	114.23	122.12
1	ef	87	HIS	CE1-NE2-CD2	-7.44	101.56	109.00
1	gP	183	ASN	CA-CB-CG	-7.44	105.16	112.60
1	hX	99	PRO	CA-C-O	-7.44	112.26	120.97
1	it	164	TYR	O-C-N	-7.44	114.23	122.12
1	iz	84	HIS	CA-C-N	7.44	128.44	120.11
1	iz	84	HIS	C-N-CA	7.44	128.44	120.11
1	iF	155	GLN	CA-C-O	7.44	130.21	121.58
1	iM	180	GLU	CA-C-O	-7.44	112.53	120.42
1	1X	3	VAL	N-CA-CB	7.44	119.29	110.95
1	jK	126	VAL	N-CA-C	7.44	119.11	110.62
1	ki	36	VAL	CA-C-N	-7.44	115.55	120.24
1	ki	36	VAL	C-N-CA	-7.44	115.55	120.24
1	kq	193	ASN	OD1-CG-ND2	-7.44	115.16	122.60
1	kI	190	LEU	N-CA-C	7.44	119.08	110.97
1	l0	63	GLN	N-CA-C	7.44	120.45	111.82
1	2h	185	MET	CA-C-N	7.44	130.11	120.44
1	2h	185	MET	C-N-CA	7.44	130.11	120.44
1	2o	42	ALA	CA-C-N	7.44	130.86	120.29
1	2o	42	ALA	C-N-CA	7.44	130.86	120.29
1	2U	7	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	2V	197	ASP	CA-C-O	7.44	128.86	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3O	87	HIS	CA-CB-CG	7.44	121.24	113.80
1	3P	162	ARG	NE-CZ-NH1	7.44	128.94	121.50
1	4j	20	LEU	O-C-N	-7.44	114.40	122.07
1	4t	193	ASN	OD1-CG-ND2	-7.44	115.16	122.60
1	5b	212	GLU	N-CA-C	7.44	120.34	111.33
1	5k	80	TRP	CA-C-N	7.44	130.56	120.44
1	5k	80	TRP	C-N-CA	7.44	130.56	120.44
1	5k	164	TYR	N-CA-C	7.44	120.34	111.33
1	6A	94	GLY	CA-C-O	7.44	127.40	119.06
1	6I	112	GLN	OE1-CD-NE2	7.44	130.04	122.60
1	74	166	ASP	CA-C-N	7.44	130.86	120.29
1	74	166	ASP	C-N-CA	7.44	130.86	120.29
1	7a	12	HIS	CG-CD2-NE2	7.44	114.64	107.20
1	7U	67	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	7X	198	CYS	CA-C-N	7.44	131.00	120.28
1	7X	198	CYS	C-N-CA	7.44	131.00	120.28
1	8O	100	ARG	NE-CZ-NH1	7.44	128.94	121.50
1	93	16	SER	CA-C-N	7.44	127.08	119.19
1	93	16	SER	C-N-CA	7.44	127.08	119.19
1	9x	121	ASN	OD1-CG-ND2	-7.44	115.16	122.60
1	9z	171	THR	CA-C-N	7.44	130.12	120.44
1	9z	171	THR	C-N-CA	7.44	130.12	120.44
1	ah	39	MET	CA-C-N	7.44	130.25	120.28
1	ah	39	MET	C-N-CA	7.44	130.25	120.28
1	at	14	ALA	CA-C-N	7.44	130.47	120.50
1	at	14	ALA	C-N-CA	7.44	130.47	120.50
1	14	148	THR	CA-C-O	7.44	128.49	120.38
1	bm	9	GLN	N-CA-C	7.44	120.73	110.24
1	bN	167	ARG	NE-CZ-NH2	-7.44	112.50	119.20
1	cC	80	TRP	CB-CG-CD1	-7.44	115.74	126.90
1	d9	111	LEU	CA-C-N	7.44	130.12	120.44
1	d9	111	LEU	C-N-CA	7.44	130.12	120.44
1	ea	62	HIS	N-CA-C	7.44	121.51	111.24
1	eR	15	ILE	O-C-N	-7.44	115.08	122.67
1	fd	51	ASP	CA-CB-CG	-7.44	105.16	112.60
1	fs	182	LYS	N-CA-C	7.44	119.39	111.28
1	t	146	SER	O-C-N	-7.44	114.83	121.31
1	P	53	ASN	CA-CB-CG	-7.44	105.16	112.60
1	U	155	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	5	61	GLY	CA-C-N	7.44	132.93	122.36
1	5	61	GLY	C-N-CA	7.44	132.93	122.36
1	ga	183	ASN	CA-C-N	7.44	130.86	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	183	ASN	C-N-CA	7.44	130.86	120.29
1	gt	64	ALA	N-CA-C	7.44	119.47	111.36
1	gJ	159	GLU	O-C-N	-7.44	113.84	121.28
1	gW	170	LYS	CA-C-N	7.44	130.86	120.29
1	gW	170	LYS	C-N-CA	7.44	130.86	120.29
1	h2	3	VAL	N-CA-CB	7.44	118.64	110.53
1	hd	124	ILE	O-C-N	-7.44	115.66	121.46
1	hB	60	GLY	CA-C-N	7.44	128.94	120.53
1	hB	60	GLY	C-N-CA	7.44	128.94	120.53
1	iq	148	THR	N-CA-CB	7.44	123.00	111.24
1	it	115	ILE	CA-C-N	7.44	128.20	119.94
1	it	115	ILE	C-N-CA	7.44	128.20	119.94
1	jg	68	MET	O-C-N	-7.44	113.67	122.15
1	jm	58	THR	N-CA-CB	7.44	121.47	110.53
1	jP	144	MET	N-CA-C	7.44	119.47	111.36
1	k1	26	VAL	N-CA-C	7.44	118.21	110.62
1	ki	26	VAL	N-CA-C	7.44	118.23	110.72
1	ki	218	CYS	N-CA-C	7.44	121.66	111.54
1	kC	30	LYS	N-CA-C	7.44	122.54	113.17
1	23	68	MET	N-CA-C	7.44	120.33	111.33
1	la	156	GLY	CA-C-N	7.44	129.14	119.84
1	la	156	GLY	C-N-CA	7.44	129.14	119.84
1	3h	58	THR	O-C-N	-7.44	114.23	122.12
1	3L	190	LEU	O-C-N	7.44	130.12	122.09
1	41	214	MET	CA-C-N	7.44	132.61	120.63
1	41	214	MET	C-N-CA	7.44	132.61	120.63
1	44	62	HIS	N-CA-C	7.44	121.51	111.24
1	4w	132	ARG	CA-C-N	7.44	130.85	120.29
1	4w	132	ARG	C-N-CA	7.44	130.85	120.29
1	4I	46	GLY	CA-C-N	7.44	131.69	121.05
1	4I	46	GLY	C-N-CA	7.44	131.69	121.05
1	4K	137	GLY	CA-C-N	7.44	130.57	120.38
1	4K	137	GLY	C-N-CA	7.44	130.57	120.38
1	5d	173	ARG	NH1-CZ-NH2	7.44	128.97	119.30
1	5C	125	PRO	N-CA-CB	-7.44	96.70	102.28
1	5G	25	LYS	N-CA-C	7.44	119.39	111.28
1	5H	144	MET	CA-C-O	7.44	128.57	119.79
1	6c	115	ILE	CA-C-N	7.44	128.40	119.99
1	6c	115	ILE	C-N-CA	7.44	128.40	119.99
1	6s	122	PRO	CA-C-N	7.44	129.14	119.84
1	6s	122	PRO	C-N-CA	7.44	129.14	119.84
1	6v	182	LYS	CA-C-O	7.44	128.51	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	189	LEU	CA-C-N	7.44	130.57	120.38
1	6I	189	LEU	C-N-CA	7.44	130.57	120.38
1	76	131	LYS	N-CA-C	7.44	121.27	111.75
1	8y	130	TYR	CA-C-N	7.44	130.25	120.28
1	8y	130	TYR	C-N-CA	7.44	130.25	120.28
1	8K	66	MET	N-CA-C	7.44	119.39	111.28
1	8M	14	ALA	CA-C-O	-7.44	113.00	121.19
1	8P	62	HIS	CA-C-O	7.44	130.47	121.84
1	9d	62	HIS	CB-CG-CD2	-7.44	121.53	131.20
1	ab	163	ASP	N-CA-C	7.44	119.39	111.28
1	al	193	ASN	N-CA-C	-7.44	103.79	113.17
1	at	98	GLU	N-CA-C	7.44	119.09	109.64
1	b6	97	ARG	NE-CZ-NH2	7.44	125.90	119.20
1	ba	4	GLN	N-CA-C	7.44	120.47	110.35
1	1g	185	MET	CA-C-N	7.44	130.25	120.28
1	1g	185	MET	C-N-CA	7.44	130.25	120.28
1	cP	137	GLY	O-C-N	-7.44	115.04	122.18
1	cS	195	ASN	CA-C-N	7.44	127.80	119.32
1	cS	195	ASN	C-N-CA	7.44	127.80	119.32
1	e5	9	GLN	N-CA-C	7.44	119.91	110.24
1	ep	186	THR	N-CA-CB	7.44	120.80	110.01
1	eM	158	LYS	CA-C-N	7.44	130.64	120.67
1	eM	158	LYS	C-N-CA	7.44	130.64	120.67
1	fg	89	GLY	CA-C-N	7.44	129.14	119.84
1	fg	89	GLY	C-N-CA	7.44	129.14	119.84
1	fy	195	ASN	O-C-N	-7.44	113.64	121.30
1	n	103	ASP	CA-C-N	7.44	129.93	120.56
1	n	103	ASP	C-N-CA	7.44	129.93	120.56
1	G	170	LYS	CA-C-N	7.44	130.85	120.29
1	G	170	LYS	C-N-CA	7.44	130.85	120.29
1	1H	89	GLY	CA-C-N	7.44	127.49	119.90
1	1H	89	GLY	C-N-CA	7.44	127.49	119.90
1	hI	13	GLN	CA-C-N	7.44	131.39	120.90
1	hI	13	GLN	C-N-CA	7.44	131.39	120.90
1	kV	63	GLN	O-C-N	-7.44	114.23	122.12
1	lh	78	ALA	O-C-N	-7.44	114.23	122.12
1	2C	188	THR	CA-C-N	7.44	130.99	120.28
1	2C	188	THR	C-N-CA	7.44	130.99	120.28
1	55	75	GLU	N-CA-C	7.44	119.39	111.28
1	6I	18	ARG	NE-CZ-NH2	-7.44	112.50	119.20
1	7c	94	GLY	N-CA-C	7.44	120.51	112.33
1	7e	68	MET	N-CA-C	7.44	119.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	172	LEU	CA-C-N	7.44	130.58	120.54
1	7A	172	LEU	C-N-CA	7.44	130.58	120.54
1	7D	110	THR	CA-C-O	-7.44	113.24	121.87
1	av	61	GLY	CA-C-N	7.44	135.75	121.54
1	av	61	GLY	C-N-CA	7.44	135.75	121.54
1	bS	146	SER	N-CA-C	7.44	118.16	109.60
1	bU	124	ILE	N-CA-C	7.44	114.33	107.56
1	d9	202	LEU	CA-C-O	7.44	128.51	120.10
1	dQ	170	LYS	CA-C-O	7.44	128.44	120.55
1	dX	124	ILE	CA-C-O	7.44	124.44	119.38
1	fc	198	CYS	CA-C-N	7.44	130.25	120.28
1	fc	198	CYS	C-N-CA	7.44	130.25	120.28
1	h4	93	PRO	O-C-N	-7.44	117.45	122.73
1	ii	112	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	jn	62	HIS	O-C-N	-7.44	114.27	122.67
1	lj	88	ALA	O-C-N	-7.44	114.24	122.12
1	lM	86	VAL	O-C-N	-7.44	115.55	123.14
1	2w	193	ASN	O-C-N	-7.44	111.85	122.41
1	3L	72	THR	CA-C-O	7.44	128.44	120.55
1	4h	209	ALA	CA-C-O	7.44	129.49	121.16
1	4J	140	LYS	O-C-N	-7.44	114.41	122.07
1	58	96	MET	CA-C-O	7.44	129.36	120.81
1	5j	165	VAL	CA-C-N	7.44	130.47	120.65
1	5j	165	VAL	C-N-CA	7.44	130.47	120.65
1	5J	106	GLY	O-C-N	-7.44	114.38	122.41
1	6h	64	ALA	CA-C-O	-7.44	113.01	120.82
1	8k	21	ASN	OD1-CG-ND2	7.44	130.04	122.60
1	8u	53	ASN	OD1-CG-ND2	-7.44	115.16	122.60
1	9U	87	HIS	N-CA-C	7.44	119.92	110.33
1	aY	99	PRO	O-C-N	-7.44	113.91	123.06
1	b3	135	ILE	O-C-N	-7.44	114.17	121.83
1	b8	50	GLN	N-CA-C	7.44	120.45	111.82
1	bf	99	PRO	N-CA-C	7.44	122.48	111.03
1	bE	89	GLY	CA-C-N	7.44	127.44	119.78
1	bE	89	GLY	C-N-CA	7.44	127.44	119.78
1	bE	131	LYS	N-CA-C	7.44	120.33	111.33
1	bR	27	VAL	N-CA-C	7.44	117.56	110.42
1	c7	40	PHE	CA-C-N	7.44	130.11	120.44
1	c7	40	PHE	C-N-CA	7.44	130.11	120.44
1	d6	26	VAL	CB-CA-C	-7.44	102.45	111.97
1	dy	35	GLU	CA-C-N	7.44	132.50	120.30
1	dy	35	GLU	C-N-CA	7.44	132.50	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e3	120	HIS	O-C-N	-7.44	114.05	122.75
1	e3	154	ARG	NE-CZ-NH1	7.44	128.94	121.50
1	g7	123	PRO	CA-C-N	7.44	127.94	122.59
1	g7	123	PRO	C-N-CA	7.44	127.94	122.59
1	D	121	ASN	OD1-CG-ND2	-7.44	115.16	122.60
1	3	217	ALA	N-CA-C	7.44	120.45	111.82
1	gb	18	ARG	CA-C-N	7.44	130.58	120.54
1	gb	18	ARG	C-N-CA	7.44	130.58	120.54
1	gW	174	ALA	N-CA-C	7.44	120.26	111.71
1	he	114	GLN	N-CA-C	7.44	119.03	111.07
1	lI	219	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	2v	118	MET	CA-C-N	7.44	130.85	120.29
1	2v	118	MET	C-N-CA	7.44	130.85	120.29
1	7k	81	ASP	CA-CB-CG	7.44	120.04	112.60
1	7M	66	MET	N-CA-C	7.44	119.39	111.28
1	7O	84	HIS	CA-C-N	7.44	129.13	119.84
1	7O	84	HIS	C-N-CA	7.44	129.13	119.84
1	8K	7	GLN	OE1-CD-NE2	-7.44	115.16	122.60
1	be	82	ARG	N-CA-C	7.44	119.39	111.28
1	cf	62	HIS	ND1-CE1-NE2	7.44	115.84	108.40
1	d1	64	ALA	CA-C-O	7.44	128.36	120.70
1	fd	224	PRO	CA-C-N	7.44	128.19	119.94
1	fd	224	PRO	C-N-CA	7.44	128.19	119.94
1	1z	197	ASP	CA-C-N	7.44	130.11	120.44
1	1z	197	ASP	C-N-CA	7.44	130.11	120.44
1	gr	39	MET	O-C-N	7.43	130.00	122.12
1	gz	213	GLU	N-CA-C	7.43	119.38	111.28
1	ha	226	HIS	CA-CB-CG	-7.43	106.36	113.80
1	hF	152	ASP	CA-CB-CG	7.43	120.03	112.60
1	1M	228	ALA	CA-C-N	7.43	131.75	120.82
1	1M	228	ALA	C-N-CA	7.43	131.75	120.82
1	iq	186	THR	N-CA-CB	7.43	121.16	110.16
1	iu	195	ASN	CA-C-N	7.43	126.97	119.24
1	iu	195	ASN	C-N-CA	7.43	126.97	119.24
1	iL	189	LEU	CA-C-N	7.43	130.85	120.29
1	iL	189	LEU	C-N-CA	7.43	130.85	120.29
1	j2	90	PRO	N-CA-CB	7.43	108.16	102.73
1	jc	85	PRO	N-CA-C	7.43	127.78	112.47
1	kb	48	THR	CA-C-N	7.43	127.46	119.28
1	kb	48	THR	C-N-CA	7.43	127.46	119.28
1	ki	65	ALA	CA-C-N	7.43	130.24	120.28
1	ki	65	ALA	C-N-CA	7.43	130.24	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	108	THR	CA-CB-OG1	7.43	120.75	109.60
1	kw	86	VAL	O-C-N	-7.43	115.23	123.26
1	kO	183	ASN	CA-C-N	7.43	130.11	120.44
1	kO	183	ASN	C-N-CA	7.43	130.11	120.44
1	lp	198	CYS	CA-C-N	7.43	130.57	120.38
1	lp	198	CYS	C-N-CA	7.43	130.57	120.38
1	ls	48	THR	O-C-N	-7.43	113.20	121.53
1	lu	98	GLU	O-C-N	-7.43	113.35	121.53
1	lu	183	ASN	CA-CB-CG	7.43	120.03	112.60
1	lA	200	THR	CA-C-N	7.43	129.93	120.56
1	lA	200	THR	C-N-CA	7.43	129.93	120.56
1	2f	214	MET	N-CA-C	7.43	119.38	111.28
1	2x	71	GLU	CA-C-N	7.43	130.85	120.29
1	2x	71	GLU	C-N-CA	7.43	130.85	120.29
1	4s	95	GLN	CA-C-N	7.43	131.36	120.95
1	4s	95	GLN	C-N-CA	7.43	131.36	120.95
1	51	50	GLN	N-CA-CB	7.43	121.05	110.12
1	5F	80	TRP	N-CA-C	7.43	120.03	111.11
1	64	156	GLY	O-C-N	-7.43	114.34	121.77
1	6F	53	ASN	CA-C-N	7.43	130.24	120.28
1	6F	53	ASN	C-N-CA	7.43	130.24	120.28
1	7b	26	VAL	N-CA-C	7.43	117.56	110.42
1	7P	198	CYS	CA-C-N	7.43	130.24	120.28
1	7P	198	CYS	C-N-CA	7.43	130.24	120.28
1	7Y	40	PHE	O-C-N	7.43	129.76	122.03
1	85	120	HIS	CG-CD2-NE2	7.43	114.63	107.20
1	8x	216	THR	CA-C-N	7.43	132.61	120.94
1	8x	216	THR	C-N-CA	7.43	132.61	120.94
1	9I	92	GLU	N-CA-C	7.43	119.08	109.64
1	aq	216	THR	CA-C-O	7.43	126.93	118.97
1	as	182	LYS	CB-CA-C	7.43	122.55	110.88
1	by	229	ARG	CA-C-O	7.43	128.17	119.32
1	bI	61	GLY	CA-C-N	7.43	132.92	122.36
1	bI	61	GLY	C-N-CA	7.43	132.92	122.36
1	1d	82	ARG	N-CA-C	7.43	119.38	111.28
1	cC	12	HIS	ND1-CE1-NE2	7.43	115.83	108.40
1	cH	28	GLU	CA-C-N	7.43	130.24	120.28
1	cH	28	GLU	C-N-CA	7.43	130.24	120.28
1	d4	192	GLN	N-CA-C	7.43	119.38	111.28
1	d6	160	PRO	N-CA-C	7.43	123.12	114.20
1	de	141	ILE	N-CA-CB	7.43	118.43	110.62
1	dR	169	TYR	N-CA-C	7.43	119.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1o	143	ARG	O-C-N	-7.43	114.24	122.12
1	1q	185	MET	N-CA-C	7.43	120.03	111.11
1	eX	201	ILE	CA-C-O	7.43	128.50	120.47
1	1x	135	ILE	CA-C-O	-7.43	113.29	121.17
1	fC	156	GLY	CA-C-N	7.43	127.07	119.19
1	fC	156	GLY	C-N-CA	7.43	127.07	119.19
1	j	143	ARG	NE-CZ-NH2	7.43	125.89	119.20
1	gk	179	GLN	N-CA-C	7.43	119.38	111.28
1	gl	139	ASN	CA-CB-CG	7.43	120.03	112.60
1	gG	1	PRO	CA-C-N	7.43	132.30	122.93
1	gG	1	PRO	C-N-CA	7.43	132.30	122.93
1	gZ	212	GLU	CA-C-O	7.43	128.66	120.63
1	h1	141	ILE	CA-C-N	7.43	130.64	120.46
1	h1	141	ILE	C-N-CA	7.43	130.64	120.46
1	i9	80	TRP	CB-CG-CD1	7.43	138.05	126.90
1	1Q	40	PHE	CA-C-N	7.43	130.24	120.28
1	1Q	40	PHE	C-N-CA	7.43	130.24	120.28
1	iy	203	LYS	CA-C-N	7.43	130.24	120.28
1	iy	203	LYS	C-N-CA	7.43	130.24	120.28
1	j2	162	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	j6	134	ILE	CA-C-N	7.43	130.64	120.46
1	j6	134	ILE	C-N-CA	7.43	130.64	120.46
1	js	195	ASN	CA-C-O	-7.43	112.29	120.69
1	1W	226	HIS	ND1-CE1-NE2	7.43	115.83	108.40
1	k8	181	VAL	N-CA-C	7.43	118.20	110.62
1	kZ	37	ILE	N-CA-CB	7.43	115.18	110.50
1	l6	76	GLU	N-CA-C	7.43	119.38	111.28
1	lx	85	PRO	O-C-N	-7.43	114.88	122.98
1	2b	128	GLU	CA-C-O	-7.43	113.02	120.82
1	2p	196	PRO	CA-C-N	7.43	130.10	120.44
1	2p	196	PRO	C-N-CA	7.43	130.10	120.44
1	3B	178	SER	CA-C-N	7.43	130.57	120.54
1	3B	178	SER	C-N-CA	7.43	130.57	120.54
1	3C	41	SER	CA-C-N	7.43	130.24	120.28
1	3C	41	SER	C-N-CA	7.43	130.24	120.28
1	4e	117	TRP	CB-CG-CD1	-7.43	115.75	126.90
1	4P	194	ALA	CA-C-N	7.43	135.22	121.69
1	4P	194	ALA	C-N-CA	7.43	135.22	121.69
1	4Q	33	SER	CA-C-O	-7.43	113.66	120.50
1	5c	154	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	5H	199	LYS	CA-C-O	7.43	128.43	120.55
1	6l	115	ILE	CA-C-N	7.43	128.39	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	115	ILE	C-N-CA	7.43	128.39	119.99
1	6n	213	GLU	CA-C-O	7.43	129.25	121.07
1	7o	122	PRO	N-CD-CG	-7.43	94.88	103.80
1	7t	129	ILE	N-CA-CB	7.43	118.72	110.62
1	9w	18	ARG	N-CA-C	7.43	119.38	111.28
1	9O	227	LYS	O-C-N	-7.43	113.73	122.87
1	aa	132	ARG	CA-C-N	7.43	130.24	120.28
1	aa	132	ARG	C-N-CA	7.43	130.24	120.28
1	ab	227	LYS	CA-C-O	-7.43	113.63	122.03
1	af	142	VAL	N-CA-C	7.43	117.56	110.42
1	ar	111	LEU	CA-C-N	7.43	130.24	120.28
1	ar	111	LEU	C-N-CA	7.43	130.24	120.28
1	12	166	ASP	CA-CB-CG	7.43	120.03	112.60
1	14	206	GLY	CA-C-N	7.43	129.13	119.84
1	14	206	GLY	C-N-CA	7.43	129.13	119.84
1	16	229	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	bk	23	TRP	N-CA-C	7.43	119.38	111.28
1	19	16	SER	N-CA-C	7.43	119.15	109.93
1	bH	77	ALA	N-CA-C	7.43	119.38	111.28
1	bN	185	MET	CA-C-N	7.43	130.84	120.29
1	bN	185	MET	C-N-CA	7.43	130.84	120.29
1	bZ	183	ASN	CA-CB-CG	-7.43	105.17	112.60
1	c8	164	TYR	CA-C-N	7.43	129.93	120.56
1	c8	164	TYR	C-N-CA	7.43	129.93	120.56
1	cV	183	ASN	OD1-CG-ND2	-7.43	115.17	122.60
1	d4	74	ASN	N-CA-C	7.43	119.38	111.28
1	dA	82	ARG	NE-CZ-NH2	-7.43	112.51	119.20
1	dA	165	VAL	N-CA-C	7.43	119.09	110.62
1	dF	79	GLU	N-CA-C	7.43	120.26	111.71
1	e0	217	ALA	CA-C-N	7.43	135.74	121.54
1	e0	217	ALA	C-N-CA	7.43	135.74	121.54
1	es	82	ARG	N-CA-C	-7.43	103.83	113.12
1	ez	108	THR	N-CA-C	-7.43	104.72	114.31
1	fQ	12	HIS	CA-CB-CG	7.43	121.23	113.80
1	gT	115	ILE	CA-C-O	-7.43	113.22	120.95
1	hw	4	GLN	O-C-N	-7.43	112.71	122.59
1	hM	163	ASP	CA-C-O	7.43	128.29	119.60
1	ia	129	ILE	CA-C-N	7.43	130.24	120.28
1	ia	129	ILE	C-N-CA	7.43	130.24	120.28
1	j1	46	GLY	O-C-N	7.43	131.27	122.50
1	je	143	ARG	CB-CA-C	7.43	123.12	110.79
1	kr	18	ARG	NE-CZ-NH1	7.43	128.93	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	23	TRP	CA-C-O	-7.43	112.67	120.55
1	kO	22	ALA	O-C-N	-7.43	114.42	122.07
1	l6	78	ALA	N-CA-C	7.43	119.38	111.28
1	lh	8	GLY	CA-C-N	7.43	131.38	120.90
1	lh	8	GLY	C-N-CA	7.43	131.38	120.90
1	ly	155	GLN	O-C-N	-7.43	113.88	123.02
1	2Y	209	ALA	CA-C-N	7.43	131.74	120.82
1	2Y	209	ALA	C-N-CA	7.43	131.74	120.82
1	3D	182	LYS	CA-C-N	7.43	130.10	120.44
1	3D	182	LYS	C-N-CA	7.43	130.10	120.44
1	4A	75	GLU	N-CA-C	7.43	119.46	111.36
1	5m	54	THR	CA-CB-CG2	7.43	123.13	110.50
1	5F	173	ARG	CA-C-O	7.43	128.30	120.42
1	61	74	ASN	CA-CB-CG	-7.43	105.17	112.60
1	6p	82	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	9V	167	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	9Y	90	PRO	CA-C-O	-7.43	112.39	121.31
1	ac	120	HIS	ND1-CE1-NE2	7.43	115.83	108.40
1	aK	145	TYR	CA-C-N	7.43	130.76	120.65
1	aK	145	TYR	C-N-CA	7.43	130.76	120.65
1	aS	73	ILE	O-C-N	-7.43	113.40	121.80
1	dJ	143	ARG	N-CA-C	7.43	119.38	111.28
1	ev	206	GLY	O-C-N	-7.43	114.34	121.77
1	fm	180	GLU	N-CA-C	7.43	119.38	111.28
1	1z	37	ILE	N-CA-CB	-7.43	105.82	110.50
1	ge	166	ASP	CB-CA-C	7.43	122.73	110.92
1	gf	37	ILE	O-C-N	7.43	125.17	120.42
1	1C	24	VAL	O-C-N	-7.43	114.66	121.87
1	1E	18	ARG	NH1-CZ-NH2	-7.43	109.64	119.30
1	hf	201	ILE	N-CA-C	7.43	117.55	110.42
1	hy	84	HIS	CA-CB-CG	7.43	121.23	113.80
1	hF	4	GLN	CG-CD-NE2	7.43	127.55	116.40
1	iD	190	LEU	N-CA-C	7.43	123.55	111.37
1	iE	9	GLN	N-CA-C	7.43	121.10	109.96
1	1R	154	ARG	NE-CZ-NH2	7.43	125.89	119.20
1	j4	37	ILE	N-CA-CB	7.43	115.50	110.52
1	1V	82	ARG	NH1-CZ-NH2	-7.43	109.64	119.30
1	kf	12	HIS	CE1-NE2-CD2	-7.43	101.57	109.00
1	2X	178	SER	N-CA-C	7.43	119.55	110.41
1	33	143	ARG	CA-C-N	7.43	130.10	120.44
1	33	143	ARG	C-N-CA	7.43	130.10	120.44
1	4r	164	TYR	N-CA-C	7.43	120.03	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Q	34	PRO	CA-C-N	7.43	130.98	120.28
1	5Q	34	PRO	C-N-CA	7.43	130.98	120.28
1	63	156	GLY	CA-C-O	-7.43	115.25	122.46
1	6i	176	GLN	CA-C-N	7.43	131.74	120.82
1	6i	176	GLN	C-N-CA	7.43	131.74	120.82
1	6n	142	VAL	N-CA-C	7.43	119.09	110.62
1	7o	182	LYS	CA-C-N	7.43	130.57	120.54
1	7o	182	LYS	C-N-CA	7.43	130.57	120.54
1	7r	152	ASP	CA-C-N	7.43	131.24	120.91
1	7r	152	ASP	C-N-CA	7.43	131.24	120.91
1	7t	133	TRP	CB-CG-CD2	-7.43	116.40	126.80
1	7O	146	SER	CA-C-O	-7.43	109.98	120.16
1	7Q	182	LYS	CA-C-N	7.43	130.10	120.44
1	7Q	182	LYS	C-N-CA	7.43	130.10	120.44
1	7S	33	SER	CA-C-N	7.43	128.37	120.12
1	7S	33	SER	C-N-CA	7.43	128.37	120.12
1	7Z	114	GLN	OE1-CD-NE2	-7.43	115.17	122.60
1	86	162	ARG	NH1-CZ-NH2	-7.43	109.64	119.30
1	8p	98	GLU	N-CA-C	7.43	119.01	109.65
1	9b	134	ILE	O-C-N	-7.43	114.66	121.87
1	9u	16	SER	CA-C-N	7.43	127.07	119.19
1	9u	16	SER	C-N-CA	7.43	127.07	119.19
1	9Y	204	ALA	N-CA-C	7.43	119.38	111.28
1	10	111	LEU	N-CA-C	7.43	119.02	111.07
1	aa	174	ALA	N-CA-C	7.43	119.38	111.28
1	am	225	GLY	CA-C-O	7.43	128.42	120.40
1	aI	177	ALA	N-CA-C	7.43	126.63	110.80
1	aK	195	ASN	CA-CB-CG	7.43	120.03	112.60
1	cx	128	GLU	CA-C-N	7.43	129.92	120.56
1	cx	128	GLU	C-N-CA	7.43	129.92	120.56
1	dm	110	THR	O-C-N	-7.43	113.51	122.65
1	1k	2	ILE	N-CA-CB	7.43	119.27	110.95
1	dv	72	THR	O-C-N	-7.43	114.42	122.07
1	dL	168	PHE	CA-CB-CG	7.43	121.23	113.80
1	e0	192	GLN	CA-C-O	-7.43	110.10	119.31
1	eb	136	LEU	N-CA-CB	-7.43	98.87	109.94
1	ex	167	ARG	NE-CZ-NH1	7.43	128.93	121.50
1	f6	65	ALA	N-CA-C	7.43	119.38	111.28
1	fS	33	SER	O-C-N	-7.43	112.20	121.64
1	g3	9	GLN	CA-C-N	7.43	131.38	120.90
1	g3	9	GLN	C-N-CA	7.43	131.38	120.90
1	hY	169	TYR	N-CA-C	7.43	119.38	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	193	ASN	OD1-CG-ND2	-7.43	115.17	122.60
1	iU	89	GLY	CA-C-N	7.43	127.88	119.93
1	iU	89	GLY	C-N-CA	7.43	127.88	119.93
1	jx	11	VAL	O-C-N	-7.43	115.25	122.98
1	jW	95	GLN	O-C-N	-7.43	114.50	123.27
1	kh	25	LYS	N-CA-C	7.43	119.02	111.07
1	l2	156	GLY	CA-C-N	7.43	129.12	119.84
1	l2	156	GLY	C-N-CA	7.43	129.12	119.84
1	2V	56	LEU	N-CA-C	7.43	119.02	111.07
1	2Y	165	VAL	CA-C-O	-7.43	113.22	120.95
1	34	5	ASN	CA-CB-CG	7.43	120.03	112.60
1	3y	213	GLU	CA-C-N	7.43	131.60	120.31
1	3y	213	GLU	C-N-CA	7.43	131.60	120.31
1	49	116	GLY	CA-C-N	7.43	130.84	120.29
1	49	116	GLY	C-N-CA	7.43	130.84	120.29
1	4x	161	PHE	CA-CB-CG	-7.43	106.37	113.80
1	4Y	87	HIS	N-CA-C	7.43	126.62	110.80
1	5w	190	LEU	N-CA-C	7.43	119.07	110.97
1	6D	203	LYS	N-CA-C	7.43	119.38	111.28
1	6L	113	GLU	N-CA-C	7.43	119.46	111.36
1	8B	171	THR	CA-C-N	7.43	130.10	120.44
1	8B	171	THR	C-N-CA	7.43	130.10	120.44
1	a2	203	LYS	CA-C-N	7.43	130.84	120.29
1	a2	203	LYS	C-N-CA	7.43	130.84	120.29
1	ab	183	ASN	OD1-CG-ND2	-7.43	115.17	122.60
1	be	120	HIS	CA-CB-CG	7.43	121.23	113.80
1	bV	171	THR	CA-C-N	7.43	130.10	120.44
1	bV	171	THR	C-N-CA	7.43	130.10	120.44
1	dg	104	ILE	CA-C-O	7.43	128.68	120.95
1	eG	191	VAL	CA-CB-CG2	-7.43	97.77	110.40
1	x	10	MET	N-CA-C	7.43	120.71	110.24
1	gm	172	LEU	N-CA-C	7.43	119.38	111.28
1	gp	199	LYS	O-C-N	-7.43	113.53	122.22
1	gF	26	VAL	N-CA-C	7.43	117.51	110.53
1	hH	132	ARG	NH1-CZ-NH2	-7.43	109.64	119.30
1	i0	68	MET	N-CA-C	7.43	119.02	111.07
1	iF	111	LEU	N-CA-C	7.43	120.32	111.33
1	kW	125	PRO	CA-C-N	7.43	130.63	120.46
1	kW	125	PRO	C-N-CA	7.43	130.63	120.46
1	ld	42	ALA	N-CA-C	7.43	120.25	111.71
1	lF	2	ILE	CA-C-O	7.43	129.45	120.84
1	lJ	166	ASP	CA-CB-CG	7.43	120.03	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	159	GLU	CA-C-N	7.43	129.12	119.84
1	2o	159	GLU	C-N-CA	7.43	129.12	119.84
1	2O	173	ARG	N-CA-C	7.43	121.44	112.38
1	2R	211	LEU	N-CA-C	7.43	120.25	111.71
1	46	139	ASN	CA-C-N	7.43	130.23	120.28
1	46	139	ASN	C-N-CA	7.43	130.23	120.28
1	59	29	GLU	N-CA-C	7.43	119.16	111.14
1	5q	187	GLU	CA-C-O	7.43	128.48	120.24
1	5I	59	VAL	N-CA-C	-7.43	103.55	110.53
1	5Q	115	ILE	CA-C-N	7.43	128.17	120.00
1	5Q	115	ILE	C-N-CA	7.43	128.17	120.00
1	64	188	THR	CA-C-N	7.43	130.84	120.29
1	64	188	THR	C-N-CA	7.43	130.84	120.29
1	66	103	ASP	CA-CB-CG	-7.43	105.17	112.60
1	7c	23	TRP	N-CA-C	7.43	119.38	111.28
1	7C	181	VAL	CA-CB-CG2	-7.43	97.78	110.40
1	7D	32	PHE	CA-CB-CG	-7.43	106.37	113.80
1	8B	9	GLN	CB-CG-CD	7.43	125.23	112.60
1	97	23	TRP	N-CA-C	7.43	120.32	111.33
1	9y	82	ARG	NH1-CZ-NH2	-7.43	109.64	119.30
1	9X	120	HIS	CA-CB-CG	7.43	121.23	113.80
1	aC	20	LEU	O-C-N	7.43	129.99	122.12
1	bh	33	SER	CA-C-N	7.43	127.78	119.32
1	bh	33	SER	C-N-CA	7.43	127.78	119.32
1	bi	77	ALA	CA-C-N	7.43	130.23	120.28
1	bi	77	ALA	C-N-CA	7.43	130.23	120.28
1	bk	193	ASN	OD1-CG-ND2	7.43	130.03	122.60
1	bG	32	PHE	CA-CB-CG	-7.43	106.37	113.80
1	bX	184	TRP	CA-C-N	7.43	130.09	120.44
1	bX	184	TRP	C-N-CA	7.43	130.09	120.44
1	c6	22	ALA	CA-C-N	7.43	130.23	120.28
1	c6	22	ALA	C-N-CA	7.43	130.23	120.28
1	cV	14	ALA	N-CA-C	7.43	120.16	110.43
1	cX	196	PRO	CA-C-N	7.43	130.23	120.28
1	cX	196	PRO	C-N-CA	7.43	130.23	120.28
1	dq	104	ILE	N-CA-C	7.43	118.19	110.62
1	1l	65	ALA	O-C-N	-7.43	114.42	122.07
1	dY	204	ALA	N-CA-C	7.43	119.38	111.28
1	r	126	VAL	CA-C-N	7.43	128.18	119.94
1	r	126	VAL	C-N-CA	7.43	128.18	119.94
1	gA	57	ASN	CA-C-O	-7.42	110.30	119.28
1	gY	22	ALA	CA-C-N	7.42	130.56	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gY	22	ALA	C-N-CA	7.42	130.56	120.54
1	h1	228	ALA	N-CA-C	7.42	121.16	110.24
1	h2	11	VAL	CA-C-O	-7.42	111.98	120.67
1	hz	10	MET	CG-SD-CE	-7.42	84.57	100.90
1	ir	221	VAL	CA-C-N	7.42	127.39	120.34
1	ir	221	VAL	C-N-CA	7.42	127.39	120.34
1	1Q	147	PRO	CA-C-O	7.42	130.25	119.34
1	iP	57	ASN	OD1-CG-ND2	-7.42	115.18	122.60
1	je	13	GLN	CB-CG-CD	7.42	125.22	112.60
1	jq	228	ALA	N-CA-C	7.42	119.37	111.28
1	jt	42	ALA	CA-C-O	7.42	128.29	120.42
1	1W	212	GLU	N-CA-C	7.42	120.25	111.71
1	k9	209	ALA	N-CA-C	7.42	120.45	110.35
1	km	149	SER	CA-C-N	7.42	132.48	120.30
1	km	149	SER	C-N-CA	7.42	132.48	120.30
1	kZ	167	ARG	NH1-CZ-NH2	-7.42	109.65	119.30
1	l6	101	GLY	N-CA-C	7.42	121.62	112.64
1	lw	29	GLU	N-CA-C	7.42	120.31	111.33
1	29	26	VAL	N-CA-CB	7.42	119.24	110.55
1	2G	161	PHE	N-CA-C	7.42	119.37	111.28
1	4g	227	LYS	CA-C-N	7.42	130.23	120.28
1	4g	227	LYS	C-N-CA	7.42	130.23	120.28
1	4C	164	TYR	CB-CA-C	7.42	122.69	110.81
1	67	194	ALA	N-CA-C	7.42	120.33	110.53
1	7h	184	TRP	CA-C-N	7.42	130.09	120.44
1	7h	184	TRP	C-N-CA	7.42	130.09	120.44
1	7i	162	ARG	CD-NE-CZ	-7.42	114.01	124.40
1	7S	139	ASN	CA-CB-CG	7.42	120.03	112.60
1	ca	161	PHE	CA-CB-CG	-7.42	106.38	113.80
1	cm	66	MET	N-CA-C	7.42	119.37	111.28
1	dg	216	THR	N-CA-C	-7.42	103.79	112.92
1	dh	216	THR	CA-C-N	7.42	131.67	121.05
1	dh	216	THR	C-N-CA	7.42	131.67	121.05
1	dF	136	LEU	CA-C-N	7.42	128.17	120.00
1	dF	136	LEU	C-N-CA	7.42	128.17	120.00
1	eg	121	ASN	OD1-CG-ND2	-7.42	115.18	122.60
1	1q	162	ARG	CA-C-N	7.42	130.83	120.29
1	1q	162	ARG	C-N-CA	7.42	130.83	120.29
1	f1	211	LEU	CA-C-N	7.42	130.23	120.28
1	f1	211	LEU	C-N-CA	7.42	130.23	120.28
1	l	148	THR	N-CA-CB	7.42	122.64	110.17
1	G	22	ALA	CA-C-N	7.42	130.09	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	22	ALA	C-N-CA	7.42	130.09	120.44
1	gT	195	ASN	CA-C-N	7.42	129.12	119.84
1	gT	195	ASN	C-N-CA	7.42	129.12	119.84
1	ig	179	GLN	N-CA-C	7.42	120.25	111.71
1	k6	117	TRP	N-CA-C	7.42	119.37	111.28
1	kf	183	ASN	N-CA-CB	7.42	120.77	110.01
1	lp	36	VAL	CA-C-N	7.42	124.92	120.24
1	lp	36	VAL	C-N-CA	7.42	124.92	120.24
1	lN	166	ASP	N-CA-C	7.42	120.02	111.11
1	2C	149	SER	N-CA-CB	7.42	120.88	110.26
1	2M	69	LEU	N-CA-C	7.42	119.45	111.36
1	3s	115	ILE	N-CA-C	7.42	118.19	110.62
1	3V	214	MET	N-CA-CB	7.42	120.77	110.01
1	4h	53	ASN	CA-CB-CG	-7.42	105.18	112.60
1	5g	62	HIS	CA-CB-CG	-7.42	106.38	113.80
1	5n	34	PRO	N-CA-C	7.42	124.81	113.75
1	5r	83	LEU	N-CA-C	7.42	119.37	111.28
1	8E	169	TYR	N-CA-C	7.42	119.37	111.28
1	8H	100	ARG	NE-CZ-NH1	7.42	128.92	121.50
1	bI	197	ASP	CA-C-N	7.42	130.23	120.28
1	bI	197	ASP	C-N-CA	7.42	130.23	120.28
1	bL	54	THR	CA-C-O	-7.42	112.68	120.55
1	ce	78	ALA	CA-C-N	7.42	130.23	120.28
1	ce	78	ALA	C-N-CA	7.42	130.23	120.28
1	co	214	MET	O-C-N	-7.42	114.25	122.12
1	eG	168	PHE	N-CA-C	7.42	119.45	111.36
1	h	53	ASN	N-CA-C	7.42	119.37	111.28
1	hf	184	TRP	CA-C-O	7.42	128.42	120.55
1	hk	76	GLU	N-CA-C	7.42	119.45	111.36
1	hB	24	VAL	CA-C-O	-7.42	112.77	120.71
1	im	41	SER	N-CA-C	7.42	119.37	111.28
1	1W	183	ASN	O-C-N	-7.42	113.54	122.22
1	1X	104	ILE	O-C-N	-7.42	114.19	121.83
1	1Z	78	ALA	N-CA-C	7.42	119.37	111.28
1	k3	36	VAL	CA-C-N	7.42	126.27	120.33
1	k3	36	VAL	C-N-CA	7.42	126.27	120.33
1	l6	223	GLY	N-CA-C	7.42	127.48	112.34
1	2v	136	LEU	N-CA-C	7.42	119.01	111.07
1	2z	220	GLY	CA-C-O	-7.42	111.36	119.82
1	2I	4	GLN	N-CA-C	7.42	121.30	111.28
1	2X	116	GLY	N-CA-C	7.42	121.62	112.64
1	3y	195	ASN	CA-C-N	7.42	129.12	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3y	195	ASN	C-N-CA	7.42	129.12	119.84
1	4e	21	ASN	CA-C-N	7.42	130.09	120.44
1	4e	21	ASN	C-N-CA	7.42	130.09	120.44
1	4f	159	GLU	O-C-N	-7.42	114.28	121.18
1	4v	100	ARG	NE-CZ-NH1	7.42	128.92	121.50
1	4x	153	ILE	CB-CA-C	-7.42	100.75	110.84
1	5d	129	ILE	CA-C-O	-7.42	113.23	120.95
1	5q	61	GLY	CA-C-N	7.42	135.71	121.54
1	5q	61	GLY	C-N-CA	7.42	135.71	121.54
1	7d	77	ALA	N-CA-C	7.42	119.37	111.28
1	7E	183	ASN	CA-CB-CG	-7.42	105.18	112.60
1	8b	229	ARG	CA-C-N	7.42	135.33	121.97
1	8b	229	ARG	C-N-CA	7.42	135.33	121.97
1	8n	226	HIS	CA-CB-CG	7.42	121.22	113.80
1	98	87	HIS	CE1-NE2-CD2	-7.42	101.58	109.00
1	a4	24	VAL	N-CA-C	7.42	117.55	110.42
1	aD	176	GLN	CA-C-N	7.42	135.72	121.54
1	aD	176	GLN	C-N-CA	7.42	135.72	121.54
1	aH	22	ALA	N-CA-C	7.42	119.01	111.07
1	aN	226	HIS	CA-C-N	7.42	131.96	120.75
1	aN	226	HIS	C-N-CA	7.42	131.96	120.75
1	aX	162	ARG	NE-CZ-NH2	7.42	125.88	119.20
1	ba	77	ALA	CA-C-N	7.42	130.22	120.28
1	ba	77	ALA	C-N-CA	7.42	130.22	120.28
1	ba	186	THR	N-CA-C	7.42	119.45	111.36
1	bj	168	PHE	N-CA-C	7.42	119.16	111.14
1	cE	53	ASN	N-CA-C	7.42	119.37	111.28
1	1i	135	ILE	CA-C-N	7.42	130.09	120.44
1	1i	135	ILE	C-N-CA	7.42	130.09	120.44
1	d6	230	VAL	N-CA-C	7.42	118.19	110.62
1	dH	120	HIS	CA-CB-CG	7.42	121.22	113.80
1	e1	175	GLU	N-CA-C	7.42	120.61	109.25
1	1t	207	PRO	CA-C-N	7.42	130.09	120.44
1	1t	207	PRO	C-N-CA	7.42	130.09	120.44
1	fh	132	ARG	NH1-CZ-NH2	-7.42	109.65	119.30
1	fY	6	LEU	CA-C-N	7.42	130.22	120.28
1	fY	6	LEU	C-N-CA	7.42	130.22	120.28
1	h1	203	LYS	N-CA-C	7.42	120.24	111.71
1	iP	82	ARG	NE-CZ-NH2	-7.42	112.52	119.20
1	iT	84	HIS	CE1-NE2-CD2	-7.42	101.58	109.00
1	kI	37	ILE	O-C-N	-7.42	112.64	121.10
1	kX	127	GLY	O-C-N	-7.42	114.99	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lt	204	ALA	N-CA-C	7.42	119.15	111.14
1	3f	9	GLN	N-CA-C	7.42	120.99	110.23
1	5Y	230	VAL	CB-CA-C	-7.42	102.77	110.93
1	6L	163	ASP	CA-CB-CG	-7.42	105.18	112.60
1	7s	89	GLY	CA-C-N	7.42	129.12	119.84
1	7s	89	GLY	C-N-CA	7.42	129.12	119.84
1	8v	165	VAL	CA-C-N	7.42	130.09	120.44
1	8v	165	VAL	C-N-CA	7.42	130.09	120.44
1	aw	166	ASP	CA-CB-CG	7.42	120.02	112.60
1	de	53	ASN	OD1-CG-ND2	-7.42	115.18	122.60
1	dC	103	ASP	CA-C-N	7.42	129.91	120.56
1	dC	103	ASP	C-N-CA	7.42	129.91	120.56
1	1p	64	ALA	N-CA-C	7.42	119.37	111.28
1	ei	226	HIS	ND1-CE1-NE2	7.42	115.82	108.40
1	eP	33	SER	O-C-N	-7.42	113.20	121.66
1	ft	112	GLN	OE1-CD-NE2	-7.42	115.18	122.60
1	fJ	45	GLU	N-CA-C	7.42	121.43	110.30
1	fX	139	ASN	CA-CB-CG	-7.42	105.18	112.60
1	y	20	LEU	N-CA-C	7.42	119.01	111.07
1	gj	64	ALA	CA-C-O	-7.42	112.69	120.55
1	gn	95	GLN	O-C-N	-7.42	113.80	122.93
1	gn	165	VAL	CA-C-N	7.42	130.82	120.29
1	gn	165	VAL	C-N-CA	7.42	130.82	120.29
1	gy	173	ARG	CA-C-N	7.42	130.96	120.28
1	gy	173	ARG	C-N-CA	7.42	130.96	120.28
1	gP	162	ARG	N-CA-C	7.42	119.37	111.28
1	hX	103	ASP	CA-C-N	7.42	130.62	120.46
1	hX	103	ASP	C-N-CA	7.42	130.62	120.46
1	ia	53	ASN	N-CA-C	7.42	119.01	111.07
1	jt	20	LEU	N-CA-C	7.42	119.01	111.07
1	jB	112	GLN	N-CA-C	7.42	120.24	111.71
1	ka	88	ALA	N-CA-C	7.42	120.17	108.67
1	ke	229	ARG	NH1-CZ-NH2	-7.42	109.66	119.30
1	km	159	GLU	N-CA-CB	-7.42	99.17	110.07
1	kD	62	HIS	CA-CB-CG	7.42	121.22	113.80
1	kE	102	SER	CA-C-O	7.42	128.28	120.42
1	l3	194	ALA	CA-C-N	7.42	130.70	120.39
1	l3	194	ALA	C-N-CA	7.42	130.70	120.39
1	lN	179	GLN	CA-C-N	7.42	130.09	120.44
1	lN	179	GLN	C-N-CA	7.42	130.09	120.44
1	2d	54	THR	N-CA-C	7.42	119.01	111.07
1	4C	11	VAL	N-CA-C	7.42	118.56	107.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5E	43	LEU	O-C-N	-7.42	112.49	122.43
1	5J	139	ASN	OD1-CG-ND2	-7.42	115.18	122.60
1	5W	159	GLU	CA-C-O	-7.42	112.15	119.49
1	69	161	PHE	N-CA-C	7.42	119.37	111.28
1	6a	204	ALA	N-CA-C	7.42	119.37	111.28
1	6d	176	GLN	OE1-CD-NE2	-7.42	115.18	122.60
1	6h	57	ASN	CA-CB-CG	-7.42	105.18	112.60
1	6t	172	LEU	O-C-N	-7.42	113.54	122.22
1	78	162	ARG	N-CA-C	7.42	120.31	111.33
1	79	193	ASN	CA-CB-CG	-7.42	105.18	112.60
1	7M	102	SER	N-CA-C	7.42	120.31	111.33
1	8f	23	TRP	CA-C-N	7.42	130.62	120.46
1	8f	23	TRP	C-N-CA	7.42	130.62	120.46
1	8n	160	PRO	CA-C-N	7.42	130.22	120.28
1	8n	160	PRO	C-N-CA	7.42	130.22	120.28
1	8r	90	PRO	CA-C-O	-7.42	113.48	121.27
1	8x	132	ARG	NE-CZ-NH2	-7.42	112.52	119.20
1	8I	133	TRP	CB-CG-CD2	-7.42	116.42	126.80
1	8P	64	ALA	CA-C-N	7.42	130.08	120.44
1	8P	64	ALA	C-N-CA	7.42	130.08	120.44
1	9e	81	ASP	CA-CB-CG	7.42	120.02	112.60
1	aE	181	VAL	N-CA-CB	7.42	120.07	110.57
1	b9	121	ASN	N-CA-C	7.42	120.15	109.84
1	bA	48	THR	N-CA-CB	7.42	118.34	109.74
1	cj	146	SER	CA-C-N	7.42	129.11	119.84
1	cj	146	SER	C-N-CA	7.42	129.11	119.84
1	da	147	PRO	N-CA-CB	7.42	110.36	103.46
1	dr	89	GLY	CA-C-N	7.42	129.11	119.84
1	dr	89	GLY	C-N-CA	7.42	129.11	119.84
1	eH	193	ASN	CA-C-O	7.42	128.34	119.59
1	eX	95	GLN	OE1-CD-NE2	-7.42	115.18	122.60
1	fO	223	GLY	CA-C-N	7.42	129.11	119.84
1	fO	223	GLY	C-N-CA	7.42	129.11	119.84
1	u	177	ALA	N-CA-C	7.42	121.15	110.10
1	y	36	VAL	CA-C-O	7.42	128.76	121.05
1	3	223	GLY	CA-C-N	7.42	129.11	119.84
1	3	223	GLY	C-N-CA	7.42	129.11	119.84
1	W	59	VAL	CA-C-O	7.42	128.34	120.48
1	gt	29	GLU	N-CA-C	7.42	123.98	114.56
1	gz	103	ASP	CA-C-N	7.42	130.62	120.46
1	gz	103	ASP	C-N-CA	7.42	130.62	120.46
1	hg	26	VAL	N-CA-C	7.42	118.18	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hg	56	LEU	N-CA-C	7.42	119.36	111.28
1	hy	16	SER	N-CA-C	7.42	120.40	109.50
1	hF	31	ALA	N-CA-C	7.42	121.24	111.75
1	i0	167	ARG	NE-CZ-NH2	-7.42	112.53	119.20
1	is	163	ASP	CA-C-N	7.42	130.08	120.44
1	is	163	ASP	C-N-CA	7.42	130.08	120.44
1	iy	98	GLU	O-C-N	-7.42	114.28	121.18
1	l2	205	LEU	CA-C-O	7.42	128.41	120.55
1	lb	59	VAL	N-CA-CB	7.42	118.61	110.53
1	lA	128	GLU	N-CA-C	7.42	119.36	111.28
1	lF	84	HIS	CA-CB-CG	-7.42	106.38	113.80
1	2z	141	ILE	N-CA-C	7.42	119.07	110.62
1	3z	142	VAL	CA-C-N	7.42	130.22	120.28
1	3z	142	VAL	C-N-CA	7.42	130.22	120.28
1	4k	70	LYS	N-CA-C	7.42	119.36	111.28
1	4t	183	ASN	CA-C-N	7.42	130.08	120.44
1	4t	183	ASN	C-N-CA	7.42	130.08	120.44
1	4Z	166	ASP	CA-C-N	7.42	130.08	120.44
1	4Z	166	ASP	C-N-CA	7.42	130.08	120.44
1	5n	4	GLN	OE1-CD-NE2	-7.42	115.18	122.60
1	5K	48	THR	N-CA-CB	7.42	118.34	109.74
1	6J	224	PRO	N-CA-CB	-7.42	97.09	103.32
1	7b	215	MET	N-CA-CB	7.42	121.02	110.12
1	7t	120	HIS	CA-CB-CG	7.42	121.22	113.80
1	7U	126	VAL	CA-C-N	7.42	128.16	120.00
1	7U	126	VAL	C-N-CA	7.42	128.16	120.00
1	8u	179	GLN	N-CA-C	7.42	119.36	111.28
1	a3	130	TYR	CA-C-N	7.42	130.22	120.28
1	a3	130	TYR	C-N-CA	7.42	130.22	120.28
1	a7	133	TRP	O-C-N	-7.42	114.26	122.12
1	br	84	HIS	CA-C-N	7.42	127.87	119.93
1	br	84	HIS	C-N-CA	7.42	127.87	119.93
1	cr	92	GLU	N-CA-C	7.42	118.13	109.60
1	dL	84	HIS	ND1-CE1-NE2	7.42	115.82	108.40
1	dV	62	HIS	ND1-CE1-NE2	7.42	115.82	108.40
1	fE	27	VAL	CA-C-O	7.42	125.43	118.90
1	2	142	VAL	CB-CA-C	7.42	121.19	111.70
1	T	160	PRO	CA-C-N	7.42	130.22	120.28
1	T	160	PRO	C-N-CA	7.42	130.22	120.28
1	V	182	LYS	N-CA-C	7.42	119.36	111.28
1	h7	92	GLU	O-C-N	-7.42	114.70	121.37
1	hC	30	LYS	N-CA-C	7.42	122.36	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	203	LYS	CA-C-O	7.42	128.41	120.55
1	25	18	ARG	NE-CZ-NH2	-7.42	112.53	119.20
1	2g	152	ASP	CA-C-O	7.42	128.50	119.97
1	2E	19	THR	N-CA-CB	7.42	121.13	110.16
1	3l	73	ILE	N-CA-C	7.42	118.18	110.62
1	4L	203	LYS	N-CA-C	7.42	119.36	111.28
1	8b	18	ARG	NE-CZ-NH1	7.42	128.91	121.50
1	cy	14	ALA	CA-C-N	7.42	130.72	120.49
1	cy	14	ALA	C-N-CA	7.42	130.72	120.49
1	cA	19	THR	CA-C-N	7.42	130.08	120.44
1	cA	19	THR	C-N-CA	7.42	130.08	120.44
1	ed	167	ARG	N-CA-C	7.42	119.36	111.28
1	ez	139	ASN	N-CA-C	7.42	120.01	111.11
1	fc	103	ASP	CA-CB-CG	-7.42	105.19	112.60
1	fv	25	LYS	N-CA-C	7.42	119.36	111.28
1	fH	75	GLU	N-CA-C	7.42	119.00	111.07
1	n	143	ARG	NE-CZ-NH2	-7.42	112.53	119.20
1	gR	58	THR	CA-CB-OG1	7.41	120.72	109.60
1	i9	168	PHE	CA-CB-CG	-7.41	106.39	113.80
1	jq	35	GLU	CA-C-N	7.41	130.62	120.46
1	jq	35	GLU	C-N-CA	7.41	130.62	120.46
1	jN	80	TRP	CA-C-O	-7.41	112.69	120.55
1	29	80	TRP	O-C-N	-7.41	114.43	122.07
1	2r	121	ASN	O-C-N	-7.41	114.46	121.72
1	2I	201	ILE	O-C-N	-7.41	114.19	121.90
1	2N	62	HIS	CA-CB-CG	7.41	121.21	113.80
1	34	15	ILE	N-CA-C	7.41	120.31	109.63
1	44	84	HIS	CA-C-N	7.41	127.40	119.76
1	44	84	HIS	C-N-CA	7.41	127.40	119.76
1	4q	226	HIS	CG-CD2-NE2	7.41	114.61	107.20
1	4C	200	THR	N-CA-CB	7.41	121.02	110.12
1	5q	136	LEU	O-C-N	-7.41	114.26	122.12
1	5R	182	LYS	CA-C-N	7.41	130.55	120.54
1	5R	182	LYS	C-N-CA	7.41	130.55	120.54
1	5S	124	ILE	CB-CA-C	7.41	119.55	110.95
1	6D	168	PHE	CA-C-N	7.41	130.21	120.28
1	6D	168	PHE	C-N-CA	7.41	130.21	120.28
1	6J	163	ASP	CA-CB-CG	7.41	120.01	112.60
1	93	57	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	9e	113	GLU	CA-C-N	7.41	130.96	120.28
1	9e	113	GLU	C-N-CA	7.41	130.96	120.28
1	9W	133	TRP	CA-C-N	7.41	129.90	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9W	133	TRP	C-N-CA	7.41	129.90	120.56
1	ai	50	GLN	OE1-CD-NE2	-7.41	115.19	122.60
1	ai	70	LYS	O-C-N	-7.41	114.26	122.12
1	aD	224	PRO	CA-C-N	7.41	128.52	120.44
1	aD	224	PRO	C-N-CA	7.41	128.52	120.44
1	aY	76	GLU	N-CA-C	7.41	120.23	111.71
1	bd	209	ALA	N-CA-C	7.41	119.88	110.24
1	1f	195	ASN	CB-CA-C	7.41	120.23	109.11
1	cT	124	ILE	O-C-N	-7.41	112.65	121.10
1	cY	24	VAL	CA-CB-CG2	-7.41	97.80	110.40
1	ef	207	PRO	N-CA-C	-7.41	106.97	114.68
1	eH	212	GLU	CB-CG-CD	-7.41	100.00	112.60
1	eL	133	TRP	CA-C-N	7.41	130.95	120.42
1	eL	133	TRP	C-N-CA	7.41	130.95	120.42
1	1w	159	GLU	N-CA-C	7.41	119.24	109.83
1	fX	71	GLU	N-CA-C	7.41	119.36	111.28
1	K	68	MET	N-CA-C	7.41	119.00	111.07
1	gp	199	LYS	CA-C-N	7.41	130.07	120.44
1	gp	199	LYS	C-N-CA	7.41	130.07	120.44
1	in	204	ALA	CA-C-O	7.41	128.41	120.55
1	l7	12	HIS	ND1-CE1-NE2	7.41	115.81	108.40
1	28	36	VAL	N-CA-C	7.41	119.07	110.62
1	2o	197	ASP	CA-C-O	7.41	128.28	120.42
1	4J	16	SER	CA-C-N	7.41	127.43	119.28
1	4J	16	SER	C-N-CA	7.41	127.43	119.28
1	5B	21	ASN	N-CA-CB	-7.41	99.19	110.16
1	80	97	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	9O	122	PRO	CA-C-N	7.41	127.83	119.83
1	9O	122	PRO	C-N-CA	7.41	127.83	119.83
1	bE	113	GLU	N-CA-C	7.41	119.00	111.07
1	cn	125	PRO	N-CA-CB	7.41	107.78	102.81
1	cT	73	ILE	CA-C-N	7.41	130.81	120.29
1	cT	73	ILE	C-N-CA	7.41	130.81	120.29
1	dc	46	GLY	N-CA-C	-7.41	105.09	115.32
1	dL	37	ILE	O-C-N	-7.41	114.81	120.07
1	dR	76	GLU	N-CA-C	7.41	119.44	111.36
1	eI	123	PRO	CA-C-O	-7.41	112.82	121.86
1	fZ	95	GLN	N-CA-C	7.41	120.95	110.50
1	g8	86	VAL	N-CA-C	7.41	118.20	110.72
1	i6	95	GLN	O-C-N	-7.41	114.23	123.27
1	i7	16	SER	O-C-N	-7.41	115.30	121.38
1	ih	5	ASN	OD1-CG-ND2	-7.41	115.19	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	71	GLU	CA-C-N	7.41	130.81	120.29
1	il	71	GLU	C-N-CA	7.41	130.81	120.29
1	iH	16	SER	CA-C-N	7.41	129.10	119.84
1	iH	16	SER	C-N-CA	7.41	129.10	119.84
1	iX	105	ALA	N-CA-C	7.41	121.91	113.02
1	kN	11	VAL	O-C-N	-7.41	115.07	123.00
1	l4	84	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	lD	195	ASN	O-C-N	-7.41	112.80	121.32
1	2G	63	GLN	N-CA-C	7.41	121.58	112.54
1	3o	18	ARG	N-CA-C	7.41	119.36	111.28
1	41	97	ARG	NE-CZ-NH2	-7.41	112.53	119.20
1	4v	21	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	4N	124	ILE	O-C-N	-7.41	115.12	121.57
1	4S	154	ARG	NE-CZ-NH2	7.41	125.87	119.20
1	5T	92	GLU	CA-C-N	7.41	127.46	119.90
1	5T	92	GLU	C-N-CA	7.41	127.46	119.90
1	5V	27	VAL	O-C-N	-7.41	114.63	121.89
1	5Y	38	PRO	N-CA-CB	7.41	111.23	103.15
1	66	11	VAL	O-C-N	-7.41	114.59	122.67
1	6u	3	VAL	N-CA-C	7.41	124.75	109.34
1	6U	180	GLU	N-CA-C	7.41	119.36	111.28
1	7e	74	ASN	CB-CG-ND2	7.41	127.52	116.40
1	7q	127	GLY	CA-C-N	7.41	130.81	120.29
1	7q	127	GLY	C-N-CA	7.41	130.81	120.29
1	9s	36	VAL	O-C-N	-7.41	114.65	121.91
1	ap	93	PRO	CB-CA-C	7.41	120.98	111.64
1	17	226	HIS	CB-CG-CD2	-7.41	121.57	131.20
1	bD	226	HIS	N-CA-C	7.41	120.43	110.35
1	cV	172	LEU	N-CA-C	7.41	121.90	113.01
1	d2	88	ALA	CA-C-O	-7.41	112.95	121.47
1	d6	71	GLU	CA-C-N	7.41	130.21	120.28
1	d6	71	GLU	C-N-CA	7.41	130.21	120.28
1	da	128	GLU	CB-CG-CD	7.41	125.20	112.60
1	dn	114	GLN	OE1-CD-NE2	-7.41	115.19	122.60
1	e2	57	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	ee	27	VAL	N-CA-C	7.41	118.14	110.36
1	eo	5	ASN	N-CA-C	-7.41	104.38	113.50
1	eH	157	PRO	N-CA-CB	-7.41	95.67	103.52
1	fi	68	MET	CA-C-N	7.41	130.07	120.44
1	fi	68	MET	C-N-CA	7.41	130.07	120.44
1	1x	120	HIS	N-CA-C	7.41	120.14	110.43
1	e	23	TRP	CB-CG-CD1	-7.41	115.78	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	104	ILE	O-C-N	-7.41	114.68	121.87
1	R	167	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	S	76	GLU	CA-C-O	7.41	128.28	120.42
1	g9	12	HIS	CA-C-N	7.41	134.15	122.74
1	g9	12	HIS	C-N-CA	7.41	134.15	122.74
1	g9	104	ILE	CA-CB-CG1	-7.41	97.81	110.40
1	gc	101	GLY	CA-C-O	7.41	128.38	120.75
1	h9	125	PRO	N-CA-CB	-7.41	97.90	102.79
1	hl	168	PHE	CA-C-N	7.41	130.21	120.28
1	hl	168	PHE	C-N-CA	7.41	130.21	120.28
1	1J	72	THR	N-CA-C	7.41	119.00	111.07
1	ht	140	LYS	N-CA-CB	7.41	121.01	110.12
1	hF	109	SER	N-CA-CB	7.41	122.23	110.23
1	i5	220	GLY	CA-C-N	7.41	130.94	120.42
1	i5	220	GLY	C-N-CA	7.41	130.94	120.42
1	iM	102	SER	N-CA-C	7.41	119.35	111.28
1	iR	71	GLU	CA-C-O	7.41	128.46	120.24
1	j3	161	PHE	CA-CB-CG	7.41	121.21	113.80
1	1Z	156	GLY	O-C-N	-7.41	114.36	121.77
1	ki	47	ALA	CA-C-O	7.41	129.46	121.16
1	22	108	THR	CA-CB-CG2	-7.41	97.91	110.50
1	kJ	37	ILE	N-CA-C	7.41	121.24	112.35
1	2d	73	ILE	CA-CB-CG2	-7.41	97.91	110.50
1	3c	97	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	3V	156	GLY	O-C-N	-7.41	115.75	122.42
1	5U	65	ALA	N-CA-C	7.41	119.36	111.28
1	6E	87	HIS	CA-CB-CG	7.41	121.21	113.80
1	6G	6	LEU	N-CA-C	7.41	119.36	111.28
1	6M	223	GLY	N-CA-C	7.41	120.89	112.00
1	80	12	HIS	CA-CB-CG	7.41	121.21	113.80
1	81	228	ALA	N-CA-C	7.41	119.87	110.24
1	8M	77	ALA	CA-C-N	7.41	130.21	120.28
1	8M	77	ALA	C-N-CA	7.41	130.21	120.28
1	8Z	12	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	8Z	120	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	92	154	ARG	NE-CZ-NH2	-7.41	112.53	119.20
1	93	179	GLN	OE1-CD-NE2	7.41	130.01	122.60
1	9a	48	THR	O-C-N	-7.41	113.23	121.53
1	9O	213	GLU	CA-C-N	7.41	130.07	120.44
1	9O	213	GLU	C-N-CA	7.41	130.07	120.44
1	10	81	ASP	CA-CB-CG	7.41	120.01	112.60
1	aF	63	GLN	OE1-CD-NE2	-7.41	115.19	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	38	PRO	CA-C-N	-7.41	110.35	120.28
1	cj	38	PRO	C-N-CA	-7.41	110.35	120.28
1	cW	228	ALA	O-C-N	-7.41	113.16	122.27
1	dv	204	ALA	O-C-N	-7.41	112.40	122.33
1	dC	172	LEU	N-CA-C	7.41	119.00	111.07
1	dE	95	GLN	OE1-CD-NE2	-7.41	115.19	122.60
1	dE	111	LEU	N-CA-C	7.41	119.36	111.28
1	ef	226	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	eJ	181	VAL	N-CA-C	7.41	118.18	110.62
1	fq	126	VAL	N-CA-C	7.41	120.35	111.09
1	ft	106	GLY	O-C-N	-7.41	115.15	122.41
1	fw	74	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	fA	16	SER	O-C-N	-7.41	113.13	121.43
1	z	97	ARG	NE-CZ-NH2	7.41	125.87	119.20
1	B	33	SER	CA-C-O	-7.41	111.53	120.05
1	g9	152	ASP	N-CA-C	-7.41	104.27	113.38
1	gq	184	TRP	O-C-N	-7.41	114.27	122.12
1	gF	18	ARG	NE-CZ-NH2	7.41	125.87	119.20
1	gL	163	ASP	CA-CB-CG	7.41	120.01	112.60
1	h6	150	ILE	CA-C-O	7.41	126.31	119.20
1	hG	168	PHE	N-CA-C	7.41	119.00	111.07
1	hN	169	TYR	O-C-N	-7.41	114.44	122.07
1	1Q	92	GLU	CA-C-N	7.41	127.45	119.90
1	1Q	92	GLU	C-N-CA	7.41	127.45	119.90
1	j0	213	GLU	CA-C-N	7.41	130.07	120.44
1	j0	213	GLU	C-N-CA	7.41	130.07	120.44
1	ji	179	GLN	CA-C-O	-7.41	113.04	120.82
1	jD	230	VAL	O-C-N	-7.41	114.78	122.63
1	jW	89	GLY	CA-C-N	7.41	129.10	119.84
1	jW	89	GLY	C-N-CA	7.41	129.10	119.84
1	l6	195	ASN	O-C-N	-7.41	113.87	121.28
1	lo	154	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	lO	200	THR	N-CA-C	7.41	119.35	111.28
1	3c	15	ILE	O-C-N	-7.41	114.54	122.61
1	3i	140	LYS	N-CA-C	7.41	119.43	111.36
1	3l	129	ILE	N-CA-C	7.41	117.53	110.42
1	3W	105	ALA	CA-C-N	7.41	134.33	121.07
1	3W	105	ALA	C-N-CA	7.41	134.33	121.07
1	7X	194	ALA	CA-C-N	7.41	130.72	120.65
1	7X	194	ALA	C-N-CA	7.41	130.72	120.65
1	aw	99	PRO	N-CA-C	7.41	122.85	111.15
1	aO	70	LYS	CA-C-N	7.41	130.54	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aO	70	LYS	C-N-CA	7.41	130.54	120.54
1	1a	188	THR	CA-C-N	7.41	130.07	120.44
1	1a	188	THR	C-N-CA	7.41	130.07	120.44
1	bP	15	ILE	O-C-N	-7.41	113.31	122.57
1	cs	154	ARG	CA-C-N	7.41	133.43	122.99
1	cs	154	ARG	C-N-CA	7.41	133.43	122.99
1	cD	23	TRP	CB-CA-C	7.41	123.08	110.79
1	eu	61	GLY	CA-C-N	7.41	133.25	122.36
1	eu	61	GLY	C-N-CA	7.41	133.25	122.36
1	l	116	GLY	N-CA-C	7.41	121.62	112.73
1	g8	219	GLN	CA-C-O	-7.41	112.29	120.81
1	gc	120	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	gU	5	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	hC	226	HIS	CE1-NE2-CD2	-7.41	101.59	109.00
1	hE	143	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	if	103	ASP	CA-C-N	7.41	130.97	120.53
1	if	103	ASP	C-N-CA	7.41	130.97	120.53
1	j9	184	TRP	CA-C-N	7.41	130.54	120.54
1	j9	184	TRP	C-N-CA	7.41	130.54	120.54
1	kj	80	TRP	CG-CD2-CE3	-7.41	126.49	133.90
1	kl	206	GLY	O-C-N	-7.41	114.36	121.77
1	ls	132	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	2C	136	LEU	N-CA-C	7.41	120.41	111.82
1	2J	200	THR	N-CA-C	7.41	119.35	111.28
1	2S	124	ILE	O-C-N	-7.41	115.13	121.57
1	2Y	64	ALA	O-C-N	-7.41	113.71	122.15
1	38	32	PHE	CA-CB-CG	-7.41	106.39	113.80
1	6u	138	LEU	O-C-N	-7.41	114.44	122.07
1	71	188	THR	N-CA-C	7.41	119.35	111.28
1	79	75	GLU	O-C-N	-7.41	114.44	122.07
1	8D	154	ARG	NE-CZ-NH1	7.41	128.91	121.50
1	9d	36	VAL	CA-C-N	7.41	127.54	120.43
1	9d	36	VAL	C-N-CA	7.41	127.54	120.43
1	9q	74	ASN	OD1-CG-ND2	-7.41	115.19	122.60
1	aO	36	VAL	CA-C-N	7.41	126.25	120.33
1	aO	36	VAL	C-N-CA	7.41	126.25	120.33
1	aV	62	HIS	N-CA-C	7.41	121.89	111.52
1	c5	126	VAL	N-CA-CB	7.41	118.73	110.51
1	co	202	LEU	CA-C-N	7.41	130.07	120.44
1	co	202	LEU	C-N-CA	7.41	130.07	120.44
1	cK	219	GLN	CA-C-O	7.41	128.97	120.60
1	d9	218	CYS	N-CA-CB	7.41	123.00	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dh	143	ARG	CA-C-O	7.41	128.40	120.55
1	dw	133	TRP	N-CA-C	7.41	118.99	111.07
1	dJ	92	GLU	CA-C-N	7.41	127.45	119.90
1	dJ	92	GLU	C-N-CA	7.41	127.45	119.90
1	dS	118	MET	N-CA-C	7.41	119.43	111.36
1	dY	13	GLN	OE1-CD-NE2	-7.41	115.19	122.60
1	el	164	TYR	N-CA-C	7.41	118.99	111.07
1	eo	23	TRP	CB-CG-CD1	-7.41	115.79	126.90
1	eO	114	GLN	N-CA-C	7.41	119.35	111.28
1	eZ	41	SER	O-C-N	-7.41	114.27	122.12
1	1z	15	ILE	N-CA-C	7.41	118.93	108.93
1	g0	4	GLN	OE1-CD-NE2	-7.41	115.19	122.60
1	g2	206	GLY	CA-C-N	7.41	127.57	119.87
1	g2	206	GLY	C-N-CA	7.41	127.57	119.87
1	l	70	LYS	CA-C-O	-7.41	113.22	121.00
1	i5	143	ARG	NE-CZ-NH1	7.40	128.90	121.50
1	iK	111	LEU	CA-C-O	7.40	128.40	120.55
1	ju	104	ILE	N-CA-CB	7.40	118.73	110.51
1	k7	9	GLN	OE1-CD-NE2	-7.40	115.20	122.60
1	kI	190	LEU	CA-C-N	7.40	129.89	120.56
1	kI	190	LEU	C-N-CA	7.40	129.89	120.56
1	lP	229	ARG	NH1-CZ-NH2	-7.40	109.67	119.30
1	4l	20	LEU	N-CA-C	7.40	118.99	111.07
1	6M	115	ILE	CA-C-N	7.40	128.01	119.94
1	6M	115	ILE	C-N-CA	7.40	128.01	119.94
1	6N	84	HIS	CE1-NE2-CD2	-7.40	101.60	109.00
1	7P	37	ILE	CA-C-N	7.40	126.94	119.24
1	7P	37	ILE	C-N-CA	7.40	126.94	119.24
1	7P	69	LEU	N-CA-C	7.40	119.35	111.28
1	9j	169	TYR	O-C-N	-7.40	114.27	122.12
1	9U	161	PHE	CA-C-N	7.40	130.94	120.28
1	9U	161	PHE	C-N-CA	7.40	130.94	120.28
1	aj	163	ASP	CA-C-N	7.40	130.06	120.44
1	aj	163	ASP	C-N-CA	7.40	130.06	120.44
1	b1	37	ILE	N-CA-CB	7.40	116.22	110.45
1	bp	91	ILE	O-C-N	-7.40	115.20	123.20
1	bz	159	GLU	CA-C-O	-7.40	113.30	120.19
1	bW	67	GLN	CA-C-N	7.40	130.20	120.28
1	bW	67	GLN	C-N-CA	7.40	130.20	120.28
1	cY	61	GLY	O-C-N	-7.40	116.94	122.71
1	dH	92	GLU	CA-C-O	-7.40	113.46	120.94
1	eP	208	ALA	N-CA-C	7.40	118.99	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	121	ASN	CA-C-N	7.40	128.01	120.38
1	L	121	ASN	C-N-CA	7.40	128.01	120.38
1	1E	226	HIS	ND1-CE1-NE2	7.40	115.80	108.40
1	gM	162	ARG	N-CA-C	7.40	119.35	111.28
1	hf	32	PHE	CA-CB-CG	-7.40	106.40	113.80
1	hI	38	PRO	CA-C-N	7.40	130.51	120.44
1	hI	38	PRO	C-N-CA	7.40	130.51	120.44
1	iz	226	HIS	CE1-NE2-CD2	-7.40	101.60	109.00
1	iD	195	ASN	N-CA-C	-7.40	100.32	109.65
1	iH	138	LEU	CA-C-N	7.40	130.53	120.54
1	iH	138	LEU	C-N-CA	7.40	130.53	120.54
1	iM	126	VAL	N-CA-C	7.40	124.74	109.34
1	iX	82	ARG	CB-CA-C	-7.40	98.26	110.85
1	j6	87	HIS	CA-CB-CG	7.40	121.20	113.80
1	jg	3	VAL	O-C-N	-7.40	114.15	122.66
1	ju	27	VAL	O-C-N	-7.40	114.66	121.91
1	jG	172	LEU	CA-C-N	7.40	130.20	120.28
1	jG	172	LEU	C-N-CA	7.40	130.20	120.28
1	kQ	60	GLY	CA-C-N	7.40	129.02	122.43
1	kQ	60	GLY	C-N-CA	7.40	129.02	122.43
1	kX	19	THR	O-C-N	-7.40	114.27	122.12
1	26	195	ASN	CA-C-N	7.40	129.09	119.84
1	26	195	ASN	C-N-CA	7.40	129.09	119.84
1	lj	13	GLN	CA-C-N	7.40	131.34	120.90
1	lj	13	GLN	C-N-CA	7.40	131.34	120.90
1	ln	146	SER	CA-C-N	7.40	129.09	119.84
1	ln	146	SER	C-N-CA	7.40	129.09	119.84
1	2V	111	LEU	O-C-N	-7.40	114.44	122.07
1	3S	69	LEU	N-CA-C	7.40	119.35	111.28
1	3U	192	GLN	OE1-CD-NE2	-7.40	115.20	122.60
1	42	190	LEU	N-CA-C	-7.40	102.90	110.97
1	4r	193	ASN	N-CA-CB	-7.40	99.11	110.44
1	4x	156	GLY	CA-C-N	7.40	127.11	119.56
1	4x	156	GLY	C-N-CA	7.40	127.11	119.56
1	4K	159	GLU	N-CA-C	7.40	120.35	109.62
1	5f	193	ASN	CA-CB-CG	-7.40	105.20	112.60
1	63	145	TYR	N-CA-C	-7.40	103.98	113.16
1	6c	166	ASP	CA-CB-CG	7.40	120.00	112.60
1	7k	18	ARG	O-C-N	-7.40	114.27	122.12
1	7w	41	SER	CA-C-N	7.40	130.20	120.28
1	7w	41	SER	C-N-CA	7.40	130.20	120.28
1	7S	9	GLN	CA-C-N	7.40	133.38	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	9	GLN	C-N-CA	7.40	133.38	120.87
1	8a	195	ASN	CA-C-N	7.40	129.09	119.84
1	8a	195	ASN	C-N-CA	7.40	129.09	119.84
1	8t	206	GLY	CA-C-N	7.40	127.45	119.90
1	8t	206	GLY	C-N-CA	7.40	127.45	119.90
1	9x	47	ALA	O-C-N	-7.40	113.86	122.89
1	12	18	ARG	N-CA-CB	7.40	120.97	109.94
1	aG	213	GLU	CA-C-N	7.40	131.56	120.31
1	aG	213	GLU	C-N-CA	7.40	131.56	120.31
1	aQ	121	ASN	CA-CB-CG	-7.40	105.20	112.60
1	bc	27	VAL	N-CA-C	7.40	118.20	110.72
1	bB	61	GLY	CA-C-N	7.40	132.87	122.36
1	bB	61	GLY	C-N-CA	7.40	132.87	122.36
1	bU	14	ALA	N-CA-C	7.40	119.51	110.41
1	bU	142	VAL	N-CA-C	7.40	117.53	110.42
1	cJ	100	ARG	CA-C-N	7.40	129.39	120.14
1	cJ	100	ARG	C-N-CA	7.40	129.39	120.14
1	d2	97	ARG	CA-C-N	7.40	131.56	121.20
1	d2	97	ARG	C-N-CA	7.40	131.56	121.20
1	dR	58	THR	CA-C-O	7.40	128.45	119.49
1	eI	145	TYR	CA-C-N	7.40	130.68	120.39
1	eI	145	TYR	C-N-CA	7.40	130.68	120.39
1	fZ	197	ASP	N-CA-C	7.40	118.99	111.07
1	h	182	LYS	O-C-N	-7.40	113.17	122.27
1	G	33	SER	O-C-N	-7.40	115.43	121.80
1	6	56	LEU	N-CA-C	7.40	120.41	111.82
1	gl	185	MET	CG-SD-CE	-7.40	84.62	100.90
1	ig	154	ARG	NE-CZ-NH2	-7.40	112.54	119.20
1	iC	26	VAL	N-CA-C	7.40	118.17	110.62
1	iG	74	ASN	N-CA-C	7.40	119.35	111.28
1	iL	211	LEU	CA-C-N	7.40	130.53	120.54
1	iL	211	LEU	C-N-CA	7.40	130.53	120.54
1	l3	154	ARG	N-CA-C	7.40	120.42	109.24
1	ld	212	GLU	N-CA-C	7.40	118.99	111.07
1	2e	132	ARG	O-C-N	-7.40	114.28	122.12
1	3W	46	GLY	O-C-N	-7.40	112.73	122.28
1	5m	61	GLY	O-C-N	7.40	130.26	122.93
1	5H	159	GLU	CA-C-N	7.40	129.09	119.84
1	5H	159	GLU	C-N-CA	7.40	129.09	119.84
1	5I	63	GLN	CA-C-N	7.40	130.06	120.44
1	5I	63	GLN	C-N-CA	7.40	130.06	120.44
1	6y	84	HIS	ND1-CE1-NE2	7.40	115.80	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	214	MET	O-C-N	-7.40	114.45	122.07
1	7b	167	ARG	NE-CZ-NH1	7.40	128.90	121.50
1	7c	155	GLN	O-C-N	-7.40	113.83	123.16
1	8J	226	HIS	CA-CB-CG	-7.40	106.40	113.80
1	96	27	VAL	CA-C-N	7.40	130.53	120.54
1	96	27	VAL	C-N-CA	7.40	130.53	120.54
1	aj	116	GLY	CA-C-O	-7.40	113.01	121.00
1	as	133	TRP	CB-CG-CD1	7.40	138.00	126.90
1	aQ	39	MET	CA-C-N	7.40	130.06	120.44
1	aQ	39	MET	C-N-CA	7.40	130.06	120.44
1	aZ	115	ILE	N-CA-CB	7.40	120.04	110.57
1	bM	85	PRO	CB-CA-C	7.40	121.01	111.46
1	c2	139	ASN	CA-CB-CG	-7.40	105.20	112.60
1	c6	185	MET	CG-SD-CE	-7.40	84.62	100.90
1	cj	205	LEU	N-CA-C	7.40	119.43	111.36
1	1f	203	LYS	N-CA-CB	-7.40	99.21	110.16
1	dT	21	ASN	CA-CB-CG	7.40	120.00	112.60
1	er	229	ARG	NE-CZ-NH2	-7.40	112.54	119.20
1	ew	192	GLN	CA-C-O	-7.40	112.64	120.63
1	eN	97	ARG	NE-CZ-NH2	-7.40	112.54	119.20
1	fj	208	ALA	CA-C-N	7.40	131.22	120.71
1	fj	208	ALA	C-N-CA	7.40	131.22	120.71
1	fl	112	GLN	N-CA-CB	7.40	121.00	110.12
1	J	214	MET	N-CA-CB	7.40	120.74	110.01
1	T	226	HIS	CA-C-N	7.40	132.63	122.34
1	T	226	HIS	C-N-CA	7.40	132.63	122.34
1	V	157	PRO	CA-C-N	7.40	134.50	122.14
1	V	157	PRO	C-N-CA	7.40	134.50	122.14
1	gl	152	ASP	CA-C-O	7.40	127.58	119.15
1	gV	35	GLU	CA-C-N	7.40	130.93	120.42
1	gV	35	GLU	C-N-CA	7.40	130.93	120.42
1	jq	124	ILE	O-C-N	-7.40	115.69	121.46
1	2A	212	GLU	N-CA-C	7.40	121.41	112.38
1	2D	117	TRP	N-CA-C	7.40	119.34	111.28
1	3j	201	ILE	N-CA-C	-7.40	102.94	111.00
1	4y	32	PHE	N-CA-C	7.40	119.80	109.15
1	71	214	MET	O-C-N	-7.40	113.72	122.15
1	7f	31	ALA	N-CA-C	7.40	121.41	112.38
1	7g	173	ARG	NE-CZ-NH1	7.40	128.90	121.50
1	7p	198	CYS	CA-C-N	7.40	130.19	120.28
1	7p	198	CYS	C-N-CA	7.40	130.19	120.28
1	Y	178	SER	CA-C-N	7.40	130.06	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	178	SER	C-N-CA	7.40	130.06	120.44
1	19	33	SER	CA-C-N	7.40	127.26	119.05
1	19	33	SER	C-N-CA	7.40	127.26	119.05
1	cO	159	GLU	CB-CA-C	-7.40	101.96	110.17
1	1x	32	PHE	CA-CB-CG	-7.40	106.40	113.80
1	O	82	ARG	N-CA-CB	7.40	120.74	110.01
1	h8	226	HIS	CA-C-O	7.40	128.59	120.82
1	1N	18	ARG	CA-C-N	7.40	130.06	120.44
1	1N	18	ARG	C-N-CA	7.40	130.06	120.44
1	1N	52	LEU	N-CA-C	7.40	119.99	111.11
1	iD	113	GLU	CA-C-N	7.40	130.06	120.44
1	iD	113	GLU	C-N-CA	7.40	130.06	120.44
1	jT	228	ALA	N-CA-C	7.40	121.59	110.64
1	kE	27	VAL	CA-C-N	7.40	130.51	120.38
1	kE	27	VAL	C-N-CA	7.40	130.51	120.38
1	kZ	64	ALA	CA-C-O	7.40	128.59	120.82
1	lr	184	TRP	N-CA-C	7.40	119.34	111.28
1	lv	173	ARG	NH1-CZ-NH2	-7.40	109.68	119.30
1	lE	158	LYS	CA-C-N	7.40	130.67	120.39
1	lE	158	LYS	C-N-CA	7.40	130.67	120.39
1	lH	26	VAL	O-C-N	-7.40	114.69	121.87
1	2w	132	ARG	CA-C-N	7.40	130.06	120.44
1	2w	132	ARG	C-N-CA	7.40	130.06	120.44
1	2X	100	ARG	NE-CZ-NH2	-7.40	112.54	119.20
1	3S	92	GLU	CA-C-N	7.40	127.44	119.90
1	3S	92	GLU	C-N-CA	7.40	127.44	119.90
1	4v	229	ARG	N-CA-C	7.40	120.71	110.35
1	4O	127	GLY	CA-C-N	7.40	130.19	120.28
1	4O	127	GLY	C-N-CA	7.40	130.19	120.28
1	50	173	ARG	O-C-N	-7.40	114.28	122.12
1	5y	200	THR	N-CA-C	7.40	118.98	111.07
1	5O	10	MET	N-CA-C	7.40	120.41	110.35
1	5T	117	TRP	CA-C-N	7.40	130.93	120.28
1	5T	117	TRP	C-N-CA	7.40	130.93	120.28
1	7s	38	PRO	CA-C-N	7.40	130.19	120.28
1	7s	38	PRO	C-N-CA	7.40	130.19	120.28
1	7v	227	LYS	O-C-N	-7.40	114.67	123.03
1	88	203	LYS	N-CA-C	7.40	119.34	111.28
1	8z	103	ASP	CA-C-N	7.40	130.96	120.53
1	8z	103	ASP	C-N-CA	7.40	130.96	120.53
1	8V	89	GLY	CA-C-N	7.40	127.44	119.90
1	8V	89	GLY	C-N-CA	7.40	127.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	11	217	ALA	N-CA-C	7.40	120.41	110.35
1	av	80	TRP	CB-CG-CD1	-7.40	115.80	126.90
1	bg	219	GLN	CA-C-N	7.40	128.89	120.53
1	bg	219	GLN	C-N-CA	7.40	128.89	120.53
1	cF	36	VAL	CA-C-N	7.40	124.90	120.24
1	cF	36	VAL	C-N-CA	7.40	124.90	120.24
1	du	40	PHE	CA-C-N	7.40	130.50	120.44
1	du	40	PHE	C-N-CA	7.40	130.50	120.44
1	eO	162	ARG	NE-CZ-NH1	7.40	128.90	121.50
1	f8	209	ALA	N-CA-C	7.40	121.59	110.64
1	fC	131	LYS	CA-C-N	7.40	130.06	120.44
1	fC	131	LYS	C-N-CA	7.40	130.06	120.44
1	1A	104	ILE	CB-CA-C	7.40	121.73	112.04
1	g0	151	LEU	N-CA-C	7.40	120.22	111.71
1	F	138	LEU	N-CA-C	7.40	119.34	111.28
1	ia	190	LEU	O-C-N	-7.40	114.28	122.12
1	jW	189	LEU	CA-C-N	7.40	130.52	120.54
1	jW	189	LEU	C-N-CA	7.40	130.52	120.54
1	jZ	219	GLN	OE1-CD-NE2	-7.40	115.20	122.60
1	lQ	191	VAL	CA-C-N	7.40	130.19	120.28
1	lQ	191	VAL	C-N-CA	7.40	130.19	120.28
1	2F	25	LYS	O-C-N	-7.40	114.45	122.07
1	2X	154	ARG	NH1-CZ-NH2	-7.40	109.69	119.30
1	2Y	35	GLU	CA-C-N	7.40	132.16	120.47
1	2Y	35	GLU	C-N-CA	7.40	132.16	120.47
1	3b	53	ASN	CA-C-N	7.40	130.79	120.29
1	3b	53	ASN	C-N-CA	7.40	130.79	120.29
1	3o	100	ARG	CA-C-N	7.40	128.19	119.98
1	3o	100	ARG	C-N-CA	7.40	128.19	119.98
1	3y	192	GLN	OE1-CD-NE2	-7.40	115.20	122.60
1	59	10	MET	CB-CA-C	7.40	121.77	111.86
1	86	2	ILE	CA-C-O	-7.40	112.53	120.59
1	8B	141	ILE	CA-C-N	7.40	130.59	120.46
1	8B	141	ILE	C-N-CA	7.40	130.59	120.46
1	95	14	ALA	N-CA-C	7.40	121.23	110.28
1	9U	42	ALA	N-CA-C	7.40	119.34	111.28
1	aN	104	ILE	CA-C-O	7.40	127.70	119.42
1	dF	169	TYR	CA-C-N	7.40	130.06	120.44
1	dF	169	TYR	C-N-CA	7.40	130.06	120.44
1	dM	74	ASN	CA-C-O	7.40	128.47	119.97
1	fz	214	MET	CA-C-N	7.40	130.19	120.28
1	fz	214	MET	C-N-CA	7.40	130.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fB	99	PRO	N-CA-CB	7.40	109.89	103.31
1	gy	119	THR	CA-C-N	7.39	131.69	120.82
1	gy	119	THR	C-N-CA	7.39	131.69	120.82
1	i6	32	PHE	CA-C-N	7.39	139.84	121.80
1	i6	32	PHE	C-N-CA	7.39	139.84	121.80
1	ib	135	ILE	CA-C-N	7.39	130.50	120.44
1	ib	135	ILE	C-N-CA	7.39	130.50	120.44
1	j0	68	MET	N-CA-C	7.39	119.34	111.28
1	jd	84	HIS	CB-CG-CD2	-7.39	121.59	131.20
1	jF	211	LEU	CA-C-N	7.39	130.19	120.28
1	jF	211	LEU	C-N-CA	7.39	130.19	120.28
1	jG	26	VAL	N-CA-C	7.39	118.16	110.62
1	lf	130	TYR	N-CA-C	7.39	118.98	111.07
1	lK	86	VAL	CA-C-N	7.39	131.25	120.82
1	lK	86	VAL	C-N-CA	7.39	131.25	120.82
1	2s	97	ARG	NH1-CZ-NH2	-7.39	109.69	119.30
1	2D	22	ALA	CA-C-O	7.39	128.39	120.55
1	2H	226	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
1	2I	181	VAL	N-CA-C	-7.39	102.94	111.00
1	2S	159	GLU	N-CA-C	7.39	119.03	109.64
1	2T	39	MET	CA-C-N	7.39	130.52	120.54
1	2T	39	MET	C-N-CA	7.39	130.52	120.54
1	5h	54	THR	CA-C-O	7.39	128.39	120.55
1	83	162	ARG	N-CA-C	7.39	119.34	111.28
1	8R	92	GLU	CA-C-O	-7.39	110.50	119.67
1	9L	55	MET	N-CA-C	7.39	119.42	111.36
1	al	131	LYS	O-C-N	-7.39	114.28	122.12
1	c7	183	ASN	OD1-CG-ND2	-7.39	115.21	122.60
1	ct	193	ASN	CA-C-N	7.39	132.33	121.31
1	ct	193	ASN	C-N-CA	7.39	132.33	121.31
1	d5	50	GLN	OE1-CD-NE2	-7.39	115.21	122.60
1	dv	51	ASP	N-CA-CB	7.39	121.11	110.16
1	dD	179	GLN	CA-C-N	7.39	130.05	120.44
1	dD	179	GLN	C-N-CA	7.39	130.05	120.44
1	ed	173	ARG	N-CA-C	-7.39	104.40	113.50
1	f6	173	ARG	NE-CZ-NH2	7.39	125.86	119.20
1	fc	207	PRO	N-CA-C	-7.39	105.11	114.35
1	fy	26	VAL	N-CA-C	-7.39	103.58	110.53
1	I	134	ILE	N-CA-CB	7.39	120.60	110.54
1	V	211	LEU	O-C-N	-7.39	114.40	122.09
1	gY	78	ALA	N-CA-C	7.39	119.42	111.36
1	hT	62	HIS	CA-CB-CG	-7.39	106.41	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hY	193	ASN	OD1-CG-ND2	-7.39	115.21	122.60
1	i8	37	ILE	CA-C-O	7.39	123.64	118.69
1	1O	180	GLU	CA-C-N	7.39	130.59	120.46
1	1O	180	GLU	C-N-CA	7.39	130.59	120.46
1	j0	87	HIS	N-CA-C	7.39	121.39	110.30
1	k0	92	GLU	CA-C-N	7.39	127.84	119.93
1	k0	92	GLU	C-N-CA	7.39	127.84	119.93
1	k8	186	THR	O-C-N	-7.39	113.72	122.15
1	kr	135	ILE	O-C-N	-7.39	114.22	121.83
1	kA	104	ILE	O-C-N	-7.39	114.67	121.91
1	kO	62	HIS	ND1-CE1-NE2	7.39	115.79	108.40
1	27	74	ASN	CA-CB-CG	-7.39	105.21	112.60
1	lB	107	THR	N-CA-C	7.39	119.42	111.36
1	lQ	162	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	2L	115	ILE	N-CA-CB	7.39	119.20	110.55
1	3a	202	LEU	N-CA-C	7.39	119.34	111.28
1	3j	40	PHE	CA-C-N	7.39	130.19	120.28
1	3j	40	PHE	C-N-CA	7.39	130.19	120.28
1	4a	217	ALA	O-C-N	-7.39	114.42	122.85
1	58	143	ARG	CA-C-N	7.39	130.05	120.44
1	58	143	ARG	C-N-CA	7.39	130.05	120.44
1	5b	173	ARG	NE-CZ-NH2	-7.39	112.55	119.20
1	5A	46	GLY	O-C-N	-7.39	113.32	122.34
1	6Q	120	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
1	7l	53	ASN	CA-CB-CG	-7.39	105.21	112.60
1	7B	69	LEU	N-CA-C	7.39	118.98	111.07
1	7B	158	LYS	N-CA-C	-7.39	102.52	112.94
1	7G	201	ILE	N-CA-C	7.39	118.19	110.72
1	7H	33	SER	CA-C-O	-7.39	113.05	120.66
1	83	37	ILE	N-CA-CB	7.39	115.16	110.50
1	9D	137	GLY	N-CA-C	7.39	121.08	112.50
1	9H	167	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	9X	179	GLN	N-CA-C	7.39	119.34	111.28
1	ap	186	THR	N-CA-CB	7.39	120.76	110.56
1	as	22	ALA	CA-C-N	7.39	130.05	120.44
1	as	22	ALA	C-N-CA	7.39	130.05	120.44
1	aB	192	GLN	N-CA-C	7.39	119.42	111.36
1	aL	62	HIS	CA-CB-CG	-7.39	106.41	113.80
1	17	33	SER	CA-C-O	-7.39	113.31	120.19
1	bp	18	ARG	N-CA-C	-7.39	103.30	111.36
1	bG	170	LYS	CA-C-O	7.39	128.39	120.55
1	c1	210	THR	N-CA-C	7.39	120.11	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cs	37	ILE	O-C-N	-7.39	115.69	120.42
1	cQ	63	GLN	N-CA-C	7.39	119.12	111.14
1	cS	84	HIS	CA-CB-CG	-7.39	106.41	113.80
1	db	5	ASN	CA-CB-CG	7.39	119.99	112.60
1	dy	173	ARG	NE-CZ-NH2	7.39	125.85	119.20
1	eL	17	PRO	CA-C-N	7.39	130.19	120.28
1	eL	17	PRO	C-N-CA	7.39	130.19	120.28
1	e	114	GLN	N-CA-C	7.39	119.34	111.28
1	i	66	MET	CA-C-N	7.39	130.19	120.28
1	i	66	MET	C-N-CA	7.39	130.19	120.28
1	G	15	ILE	CB-CA-C	7.39	121.95	111.08
1	4	141	ILE	CA-C-O	7.39	128.64	120.95
1	X	132	ARG	CA-C-N	7.39	130.19	120.28
1	X	132	ARG	C-N-CA	7.39	130.19	120.28
1	i3	164	TYR	N-CA-C	7.39	118.98	111.07
1	kY	130	TYR	CA-C-N	7.39	130.52	120.54
1	kY	130	TYR	C-N-CA	7.39	130.52	120.54
1	2L	14	ALA	N-CA-C	7.39	120.92	110.50
1	4l	101	GLY	O-C-N	-7.39	114.41	122.24
1	4n	76	GLU	N-CA-C	7.39	119.34	111.28
1	4o	82	ARG	CD-NE-CZ	-7.39	114.05	124.40
1	6A	1	PRO	CA-C-N	7.39	131.18	120.91
1	6A	1	PRO	C-N-CA	7.39	131.18	120.91
1	7q	182	LYS	CA-C-N	7.39	130.49	120.44
1	7q	182	LYS	C-N-CA	7.39	130.49	120.44
1	81	182	LYS	CA-C-N	7.39	130.52	120.54
1	81	182	LYS	C-N-CA	7.39	130.52	120.54
1	8m	95	GLN	N-CA-C	7.39	120.40	110.35
1	8A	105	ALA	CB-CA-C	7.39	123.60	110.81
1	8Z	167	ARG	N-CA-C	7.39	118.98	111.07
1	9X	74	ASN	CA-CB-CG	-7.39	105.21	112.60
1	an	85	PRO	N-CA-CB	7.39	111.01	103.25
1	aM	4	GLN	OE1-CD-NE2	-7.39	115.21	122.60
1	aR	107	THR	N-CA-CB	7.39	122.98	110.49
1	aX	62	HIS	ND1-CG-CD2	7.39	113.49	106.10
1	dl	227	LYS	N-CA-C	7.39	120.40	110.35
1	fn	81	ASP	CA-CB-CG	7.39	119.99	112.60
1	fC	87	HIS	CG-CD2-NE2	7.39	114.59	107.20
1	gB	81	ASP	CA-C-O	7.39	128.47	119.97
1	gD	10	MET	O-C-N	-7.39	113.58	123.19
1	h0	173	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	hK	120	HIS	CG-CD2-NE2	7.39	114.59	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ix	89	GLY	CA-C-N	7.39	127.39	119.78
1	ix	89	GLY	C-N-CA	7.39	127.39	119.78
1	1Q	56	LEU	N-CA-C	7.39	118.98	111.07
1	1R	161	PHE	CA-C-N	7.39	130.18	120.28
1	1R	161	PHE	C-N-CA	7.39	130.18	120.28
1	j5	195	ASN	CA-C-N	7.39	129.08	119.84
1	j5	195	ASN	C-N-CA	7.39	129.08	119.84
1	jA	27	VAL	N-CA-C	7.39	118.18	110.72
1	jI	195	ASN	O-C-N	-7.39	113.24	121.66
1	kf	203	LYS	O-C-N	-7.39	114.46	122.07
1	kt	23	TRP	CB-CG-CD2	-7.39	116.45	126.80
1	lj	102	SER	CA-C-O	7.39	128.38	120.55
1	2r	162	ARG	CA-C-N	7.39	130.18	120.28
1	2r	162	ARG	C-N-CA	7.39	130.18	120.28
1	2L	230	VAL	N-CA-CB	7.39	119.40	110.31
1	2R	188	THR	N-CA-C	7.39	118.98	111.07
1	3f	191	VAL	N-CA-C	7.39	118.18	110.72
1	4r	111	LEU	CA-C-O	7.39	128.61	120.63
1	4A	113	GLU	CA-C-N	7.39	130.52	120.54
1	4A	113	GLU	C-N-CA	7.39	130.52	120.54
1	6c	124	ILE	CA-C-O	-7.39	113.64	119.25
1	6I	70	LYS	N-CA-C	7.39	119.98	111.11
1	8S	54	THR	N-CA-C	7.39	118.98	111.07
1	9r	84	HIS	CA-C-O	-7.39	112.37	119.91
1	9A	166	ASP	CA-CB-CG	7.39	119.99	112.60
1	at	48	THR	N-CA-CB	7.39	118.97	110.03
1	bE	59	VAL	O-C-N	-7.39	114.62	122.67
1	bZ	109	SER	O-C-N	-7.39	114.57	123.29
1	c3	148	THR	N-CA-CB	7.39	122.98	110.49
1	d0	199	LYS	N-CA-C	7.39	118.98	111.07
1	d6	135	ILE	O-C-N	-7.39	114.22	121.83
1	dv	134	ILE	N-CA-CB	7.39	119.19	110.55
1	dz	166	ASP	N-CA-CB	-7.39	99.26	110.12
1	dH	219	GLN	CA-C-O	7.39	128.49	120.43
1	dJ	204	ALA	CA-C-N	7.39	130.05	120.44
1	dJ	204	ALA	C-N-CA	7.39	130.05	120.44
1	dU	121	ASN	CA-CB-CG	7.39	119.99	112.60
1	ei	210	THR	CA-CB-CG2	7.39	123.06	110.50
1	fi	186	THR	CA-C-O	7.39	128.58	120.82
1	fD	182	LYS	CA-C-O	-7.39	112.72	120.55
1	n	103	ASP	O-C-N	-7.39	114.29	122.12
1	3	174	ALA	N-CA-C	7.39	120.21	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1E	166	ASP	CA-CB-CG	7.39	119.99	112.60
1	1F	37	ILE	CA-C-O	-7.39	112.57	118.85
1	gU	199	LYS	CA-C-N	7.39	130.18	120.28
1	gU	199	LYS	C-N-CA	7.39	130.18	120.28
1	hC	53	ASN	OD1-CG-ND2	-7.39	115.21	122.60
1	hN	229	ARG	NH1-CZ-NH2	-7.39	109.69	119.30
1	ib	56	LEU	CA-C-O	7.39	128.38	120.55
1	j5	156	GLY	O-C-N	-7.39	114.38	121.77
1	jJ	131	LYS	CA-C-O	-7.39	112.72	120.55
1	3Y	122	PRO	CA-C-N	7.39	127.39	119.78
1	3Y	122	PRO	C-N-CA	7.39	127.39	119.78
1	6A	139	ASN	CA-C-N	7.39	130.49	120.44
1	6A	139	ASN	C-N-CA	7.39	130.49	120.44
1	7z	62	HIS	ND1-CG-CD2	7.39	113.49	106.10
1	8F	120	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
1	9G	226	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
1	9U	125	PRO	CA-C-O	7.39	126.78	121.31
1	16	51	ASP	O-C-N	-7.39	113.73	122.15
1	bv	183	ASN	O-C-N	-7.39	114.41	122.09
1	bJ	81	ASP	CA-CB-CG	-7.39	105.21	112.60
1	dC	46	GLY	CA-C-N	7.39	131.20	120.71
1	dC	46	GLY	C-N-CA	7.39	131.20	120.71
1	eq	142	VAL	CA-C-O	7.39	128.95	121.27
1	1y	229	ARG	NE-CZ-NH2	7.39	125.85	119.20
1	fH	36	VAL	CA-C-O	-7.39	113.02	120.85
1	gq	131	LYS	N-CA-C	7.39	120.27	111.33
1	gP	123	PRO	N-CA-CB	7.39	109.53	103.32
1	gW	162	ARG	N-CA-C	7.39	119.41	111.36
1	iE	222	GLY	CA-C-O	-7.39	114.95	122.56
1	jn	68	MET	O-C-N	-7.39	114.29	122.12
1	k6	151	LEU	CA-C-N	7.39	132.94	121.19
1	k6	151	LEU	C-N-CA	7.39	132.94	121.19
1	ki	112	GLN	CB-CG-CD	7.39	125.16	112.60
1	kq	144	MET	N-CA-C	7.39	119.33	111.28
1	kH	69	LEU	CA-C-N	7.39	130.50	120.38
1	kH	69	LEU	C-N-CA	7.39	130.50	120.38
1	kV	171	THR	CA-C-O	7.39	128.38	120.55
1	l6	94	GLY	CA-C-N	7.39	133.02	122.09
1	l6	94	GLY	C-N-CA	7.39	133.02	122.09
1	lk	161	PHE	CA-CB-CG	-7.39	106.41	113.80
1	lD	219	GLN	OE1-CD-NE2	-7.39	115.21	122.60
1	2g	153	ILE	CA-CB-CG2	-7.39	97.94	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2I	153	ILE	N-CA-CB	7.39	119.88	111.90
1	2T	9	GLN	CA-C-N	7.39	133.08	121.56
1	2T	9	GLN	C-N-CA	7.39	133.08	121.56
1	2Y	75	GLU	N-CA-C	7.39	118.97	111.07
1	3n	84	HIS	CA-CB-CG	7.39	121.19	113.80
1	4E	124	ILE	O-C-N	-7.39	112.68	121.10
1	4M	116	GLY	N-CA-C	7.39	121.59	112.73
1	57	71	GLU	N-CA-C	7.39	119.33	111.28
1	5y	176	GLN	OE1-CD-NE2	-7.39	115.21	122.60
1	5W	221	VAL	N-CA-C	7.39	120.07	109.51
1	6f	58	THR	N-CA-CB	7.39	121.59	110.22
1	6J	210	THR	CA-C-N	7.39	130.18	120.28
1	6J	210	THR	C-N-CA	7.39	130.18	120.28
1	8c	53	ASN	CA-CB-CG	-7.39	105.21	112.60
1	8L	175	GLU	O-C-N	-7.39	114.40	123.04
1	9w	75	GLU	CA-C-N	7.39	130.18	120.28
1	9w	75	GLU	C-N-CA	7.39	130.18	120.28
1	as	22	ALA	N-CA-C	7.39	119.33	111.28
1	ay	144	MET	N-CA-C	7.39	118.97	111.07
1	14	62	HIS	ND1-CG-CD2	7.39	113.49	106.10
1	br	202	LEU	O-C-N	-7.39	114.29	122.12
1	bG	24	VAL	CG1-CB-CG2	7.39	127.05	110.80
1	cE	63	GLN	CB-CA-C	7.39	123.41	110.85
1	d8	135	ILE	CA-C-N	7.39	130.18	120.28
1	d8	135	ILE	C-N-CA	7.39	130.18	120.28
1	di	62	HIS	CA-C-N	7.39	130.18	120.28
1	di	62	HIS	C-N-CA	7.39	130.18	120.28
1	dn	176	GLN	O-C-N	-7.39	113.46	122.25
1	dq	33	SER	CA-C-N	7.39	129.07	119.84
1	dq	33	SER	C-N-CA	7.39	129.07	119.84
1	dR	112	GLN	N-CA-C	7.39	119.33	111.28
1	eQ	132	ARG	NE-CZ-NH1	7.39	128.89	121.50
1	c	170	LYS	O-C-N	-7.39	114.29	122.12
1	9	187	GLU	N-CA-CB	-7.39	99.36	110.07
1	gg	167	ARG	O-C-N	-7.38	114.46	122.07
1	gu	97	ARG	NE-CZ-NH2	-7.38	112.55	119.20
1	hB	8	GLY	N-CA-C	7.38	125.96	112.37
1	hC	131	LYS	N-CA-C	7.38	120.26	111.33
1	hP	213	GLU	CA-C-O	7.38	128.38	120.55
1	i2	87	HIS	CA-C-O	7.38	129.43	121.16
1	1N	39	MET	N-CA-C	7.38	118.97	111.07
1	ie	134	ILE	CA-C-N	7.38	129.86	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ie	134	ILE	C-N-CA	7.38	129.86	120.56
1	iT	104	ILE	O-C-N	-7.38	114.41	121.87
1	j2	105	ALA	CA-C-O	7.38	128.47	119.31
1	j9	226	HIS	ND1-CE1-NE2	7.38	115.78	108.40
1	jD	127	GLY	CA-C-N	7.38	130.04	120.44
1	jD	127	GLY	C-N-CA	7.38	130.04	120.44
1	lk	194	ALA	O-C-N	-7.38	114.61	122.96
1	lw	12	HIS	CA-C-O	7.38	129.34	120.92
1	2A	86	VAL	CA-C-N	-7.38	112.53	122.72
1	2A	86	VAL	C-N-CA	-7.38	112.53	122.72
1	3O	153	ILE	O-C-N	-7.38	114.52	122.05
1	3X	48	THR	CA-C-O	-7.38	112.75	120.87
1	4g	138	LEU	CA-C-N	7.38	130.78	120.29
1	4g	138	LEU	C-N-CA	7.38	130.78	120.29
1	4n	186	THR	N-CA-CB	7.38	120.97	110.12
1	54	178	SER	CA-C-N	7.38	130.18	120.28
1	54	178	SER	C-N-CA	7.38	130.18	120.28
1	5L	74	ASN	CA-CB-CG	-7.38	105.22	112.60
1	61	199	LYS	CA-C-N	7.38	130.51	120.54
1	61	199	LYS	C-N-CA	7.38	130.51	120.54
1	6j	179	GLN	N-CA-C	7.38	119.33	111.28
1	6H	63	GLN	N-CA-C	7.38	119.33	111.28
1	73	56	LEU	N-CA-CB	7.38	120.72	110.01
1	7C	98	GLU	CA-C-N	7.38	129.07	119.84
1	7C	98	GLU	C-N-CA	7.38	129.07	119.84
1	7H	193	ASN	CA-C-N	7.38	133.35	120.87
1	7H	193	ASN	C-N-CA	7.38	133.35	120.87
1	7W	14	ALA	N-CA-C	7.38	119.84	110.24
1	88	100	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	8a	180	GLU	N-CA-CB	7.38	120.98	110.12
1	8b	132	ARG	NH1-CZ-NH2	-7.38	109.70	119.30
1	8M	141	ILE	N-CA-C	7.38	118.18	110.72
1	91	50	GLN	N-CA-C	7.38	119.33	111.28
1	9g	48	THR	N-CA-CB	7.38	121.18	110.03
1	9L	100	ARG	CA-C-N	7.38	128.33	119.99
1	9L	100	ARG	C-N-CA	7.38	128.33	119.99
1	13	97	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	bN	226	HIS	N-CA-CB	7.38	120.99	109.69
1	d1	199	LYS	CA-C-N	7.38	130.04	120.44
1	d1	199	LYS	C-N-CA	7.38	130.04	120.44
1	dj	81	ASP	CA-CB-CG	-7.38	105.22	112.60
1	1k	173	ARG	N-CA-C	7.38	120.27	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ex	39	MET	N-CA-C	7.38	118.97	111.07
1	fc	189	LEU	CA-C-N	7.38	130.04	120.44
1	fc	189	LEU	C-N-CA	7.38	130.04	120.44
1	fp	181	VAL	CB-CA-C	-7.38	102.03	112.22
1	fu	67	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	s	153	ILE	N-CA-CB	7.38	119.02	110.82
1	G	124	ILE	O-C-N	-7.38	116.72	121.37
1	7	172	LEU	N-CA-CB	7.38	120.72	110.01
1	gr	140	LYS	O-C-N	-7.38	114.47	122.07
1	gW	217	ALA	CA-C-N	7.38	133.13	122.35
1	gW	217	ALA	C-N-CA	7.38	133.13	122.35
1	h7	102	SER	CA-C-O	7.38	128.38	120.55
1	2y	140	LYS	N-CA-C	7.38	119.33	111.28
1	4f	143	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	4s	114	GLN	N-CA-C	7.38	118.97	111.07
1	5H	2	ILE	CA-C-N	7.38	133.25	123.06
1	5H	2	ILE	C-N-CA	7.38	133.25	123.06
1	7B	48	THR	CA-C-O	-7.38	113.59	121.27
1	7L	127	GLY	O-C-N	-7.38	115.10	122.19
1	ca	140	LYS	N-CA-C	7.38	119.33	111.28
1	ct	46	GLY	CA-C-N	7.38	131.35	120.87
1	ct	46	GLY	C-N-CA	7.38	131.35	120.87
1	cW	56	LEU	N-CA-C	7.38	118.97	111.07
1	g1	33	SER	N-CA-C	-7.38	101.58	108.22
1	g1	64	ALA	O-C-N	-7.38	113.58	122.22
1	z	230	VAL	CA-C-O	7.38	128.44	120.32
1	C	87	HIS	CG-CD2-NE2	7.38	114.58	107.20
1	O	120	HIS	CA-CB-CG	7.38	121.18	113.80
1	gs	17	PRO	N-CA-CB	-7.38	96.10	103.48
1	iz	92	GLU	N-CA-C	7.38	119.01	109.64
1	jg	114	GLN	N-CA-C	7.38	119.97	111.11
1	kX	87	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	3f	49	PRO	CA-C-N	7.38	130.04	120.44
1	3f	49	PRO	C-N-CA	7.38	130.04	120.44
1	3r	148	THR	CA-C-O	7.38	131.07	120.51
1	3C	215	MET	CG-SD-CE	-7.38	84.66	100.90
1	3J	159	GLU	CA-C-N	7.38	127.31	119.85
1	3J	159	GLU	C-N-CA	7.38	127.31	119.85
1	4g	90	PRO	N-CA-C	7.38	122.94	111.21
1	4W	78	ALA	N-CA-C	7.38	119.33	111.28
1	54	173	ARG	NH1-CZ-NH2	-7.38	109.70	119.30
1	5i	92	GLU	N-CA-C	7.38	120.27	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	62	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	5D	107	THR	N-CA-CB	7.38	121.71	110.42
1	5Z	45	GLU	N-CA-C	7.38	119.33	111.28
1	69	82	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	75	103	ASP	CA-C-N	7.38	130.94	120.53
1	75	103	ASP	C-N-CA	7.38	130.94	120.53
1	7e	132	ARG	NE-CZ-NH2	-7.38	112.56	119.20
1	8h	36	VAL	CA-C-N	7.38	126.23	120.33
1	8h	36	VAL	C-N-CA	7.38	126.23	120.33
1	8t	195	ASN	CA-CB-CG	7.38	119.98	112.60
1	8J	26	VAL	N-CA-C	7.38	118.15	110.62
1	90	53	ASN	CA-CB-CG	-7.38	105.22	112.60
1	94	173	ARG	O-C-N	-7.38	114.30	122.12
1	97	134	ILE	CA-C-N	7.38	132.13	120.47
1	97	134	ILE	C-N-CA	7.38	132.13	120.47
1	9i	179	GLN	N-CA-C	7.38	119.33	111.28
1	9H	150	ILE	N-CA-C	-7.38	102.54	113.39
1	ai	25	LYS	O-C-N	-7.38	114.30	122.12
1	ap	33	SER	N-CA-C	-7.38	98.59	108.11
1	bo	74	ASN	CA-C-N	7.38	130.50	120.54
1	bo	74	ASN	C-N-CA	7.38	130.50	120.54
1	c6	167	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	cz	123	PRO	N-CA-CB	7.38	109.75	103.25
1	cN	22	ALA	CB-CA-C	-7.38	98.53	110.79
1	d1	146	SER	CB-CA-C	-7.38	97.86	109.52
1	db	69	LEU	CA-C-O	7.38	128.57	120.82
1	du	22	ALA	N-CA-C	7.38	120.38	111.82
1	dD	120	HIS	ND1-CE1-NE2	7.38	115.78	108.40
1	eC	172	LEU	N-CA-C	7.38	119.33	111.28
1	fl	68	MET	CA-C-N	7.38	130.04	120.44
1	fl	68	MET	C-N-CA	7.38	130.04	120.44
1	fs	95	GLN	OE1-CD-NE2	7.38	129.98	122.60
1	fJ	87	HIS	ND1-CE1-NE2	7.38	115.78	108.40
1	g	41	SER	CA-C-N	7.38	131.53	120.31
1	g	41	SER	C-N-CA	7.38	131.53	120.31
1	t	158	LYS	O-C-N	-7.38	113.11	122.34
1	gw	88	ALA	O-C-N	-7.38	114.27	123.27
1	hd	44	SER	CA-C-N	7.38	130.49	120.38
1	hd	44	SER	C-N-CA	7.38	130.49	120.38
1	hg	73	ILE	O-C-N	-7.38	114.68	121.91
1	hB	23	TRP	N-CA-C	7.38	119.97	111.11
1	hL	185	MET	N-CA-C	7.38	118.97	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i0	83	LEU	O-C-N	7.38	129.76	122.09
1	iv	7	GLN	CA-C-O	7.38	128.06	120.24
1	jt	64	ALA	CA-C-N	7.38	130.03	120.44
1	jt	64	ALA	C-N-CA	7.38	130.03	120.44
1	26	132	ARG	CA-C-N	7.38	130.03	120.44
1	26	132	ARG	C-N-CA	7.38	130.03	120.44
1	ld	201	ILE	CA-C-N	7.38	130.17	120.28
1	ld	201	ILE	C-N-CA	7.38	130.17	120.28
1	2l	171	THR	N-CA-CB	7.38	120.71	110.01
1	3g	84	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	3o	226	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	47	37	ILE	O-C-N	-7.38	115.70	120.42
1	4b	44	SER	N-CA-C	7.38	120.79	112.97
1	4z	78	ALA	CA-C-N	7.38	130.17	120.28
1	4z	78	ALA	C-N-CA	7.38	130.17	120.28
1	5Q	92	GLU	N-CA-C	7.38	120.10	109.84
1	6b	183	ASN	CA-CB-CG	-7.38	105.22	112.60
1	73	209	ALA	CA-C-O	7.38	129.27	121.15
1	8R	162	ARG	N-CA-C	7.38	119.33	111.28
1	9D	192	GLN	N-CA-C	7.38	119.40	111.36
1	ac	42	ALA	N-CA-C	7.38	118.97	111.07
1	bD	109	SER	CB-CA-C	7.38	124.36	109.38
1	c3	119	THR	CA-C-N	7.38	131.67	120.82
1	c3	119	THR	C-N-CA	7.38	131.67	120.82
1	ct	162	ARG	N-CA-C	7.38	119.32	111.28
1	1g	90	PRO	CA-C-N	7.38	135.25	121.97
1	1g	90	PRO	C-N-CA	7.38	135.25	121.97
1	1u	98	GLU	CA-C-N	7.38	127.14	119.76
1	1u	98	GLU	C-N-CA	7.38	127.14	119.76
1	fx	124	ILE	CB-CA-C	7.38	117.80	110.94
1	fP	181	VAL	N-CA-CB	7.38	119.18	110.55
1	1D	197	ASP	CA-CB-CG	-7.38	105.22	112.60
1	gM	195	ASN	CA-C-N	7.38	126.91	119.24
1	gM	195	ASN	C-N-CA	7.38	126.91	119.24
1	gQ	182	LYS	CA-C-N	7.38	130.03	120.44
1	gQ	182	LYS	C-N-CA	7.38	130.03	120.44
1	hp	68	MET	CA-C-N	7.38	130.17	120.28
1	hp	68	MET	C-N-CA	7.38	130.17	120.28
1	hE	110	THR	CA-CB-OG1	7.38	120.67	109.60
1	je	140	LYS	CA-C-O	7.38	128.57	120.82
1	jV	84	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	l8	125	PRO	N-CA-CB	-7.38	97.08	102.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lK	149	SER	N-CA-CB	7.38	120.92	109.48
1	2e	149	SER	CA-C-N	7.38	130.57	120.46
1	2e	149	SER	C-N-CA	7.38	130.57	120.46
1	2s	20	LEU	N-CA-CB	7.38	121.08	110.16
1	2B	166	ASP	CA-C-N	7.38	130.03	120.44
1	2B	166	ASP	C-N-CA	7.38	130.03	120.44
1	3s	82	ARG	N-CA-C	7.38	119.32	111.28
1	3A	159	GLU	N-CA-C	7.38	119.01	109.64
1	4i	167	ARG	CA-C-N	7.38	130.48	120.44
1	4i	167	ARG	C-N-CA	7.38	130.48	120.44
1	4W	36	VAL	CA-C-N	7.38	126.23	120.33
1	4W	36	VAL	C-N-CA	7.38	126.23	120.33
1	5C	182	LYS	N-CA-C	7.38	120.26	111.33
1	5K	76	GLU	CA-C-N	7.38	131.05	120.79
1	5K	76	GLU	C-N-CA	7.38	131.05	120.79
1	7m	143	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	86	226	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	9y	190	LEU	CA-C-N	7.38	130.57	120.46
1	9y	190	LEU	C-N-CA	7.38	130.57	120.46
1	9E	117	TRP	N-CA-C	7.38	119.97	111.11
1	aW	15	ILE	CA-C-N	7.38	131.21	120.51
1	aW	15	ILE	C-N-CA	7.38	131.21	120.51
1	be	194	ALA	O-C-N	-7.38	113.97	122.68
1	bC	139	ASN	CA-C-O	7.38	128.37	120.55
1	bW	64	ALA	N-CA-C	7.38	118.96	111.07
1	c3	62	HIS	CA-CB-CG	7.38	121.18	113.80
1	cg	183	ASN	CA-CB-CG	-7.38	105.22	112.60
1	dO	95	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	e8	185	MET	CA-C-O	7.38	128.79	120.90
1	ea	116	GLY	CA-C-N	7.38	130.03	120.44
1	ea	116	GLY	C-N-CA	7.38	130.03	120.44
1	eR	95	GLN	N-CA-C	7.38	120.05	110.53
1	fA	195	ASN	CA-CB-CG	-7.38	105.22	112.60
1	A	208	ALA	N-CA-C	7.38	121.70	111.74
1	3	150	ILE	N-CA-C	7.38	119.03	110.62
1	J	148	THR	N-CA-CB	7.38	122.14	110.55
1	O	100	ARG	NE-CZ-NH2	7.38	125.84	119.20
1	X	229	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	hJ	50	GLN	OE1-CD-NE2	-7.38	115.22	122.60
1	hV	124	ILE	O-C-N	-7.38	112.69	121.10
1	i0	84	HIS	O-C-N	-7.38	113.01	120.83
1	il	230	VAL	O-C-N	-7.38	114.57	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iX	53	ASN	N-CA-C	7.38	119.32	111.28
1	1U	62	HIS	ND1-CE1-NE2	7.38	115.78	108.40
1	1V	3	VAL	O-C-N	-7.38	114.89	123.00
1	la	120	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	lC	23	TRP	CA-C-N	7.38	130.57	120.46
1	lC	23	TRP	C-N-CA	7.38	130.57	120.46
1	2a	120	HIS	ND1-CG-CD2	-7.38	98.72	106.10
1	2q	5	ASN	N-CA-C	7.38	120.25	111.33
1	2A	98	GLU	CA-C-N	7.38	127.82	119.93
1	2A	98	GLU	C-N-CA	7.38	127.82	119.93
1	3m	12	HIS	O-C-N	-7.38	113.89	122.89
1	3r	120	HIS	CG-CD2-NE2	7.38	114.58	107.20
1	52	75	GLU	N-CA-C	7.38	119.32	111.28
1	54	154	ARG	NE-CZ-NH1	7.38	128.88	121.50
1	5x	16	SER	N-CA-CB	7.38	122.03	110.01
1	6M	52	LEU	CA-C-N	7.38	130.16	120.28
1	6M	52	LEU	C-N-CA	7.38	130.16	120.28
1	6P	159	GLU	CA-C-N	7.38	129.06	119.84
1	6P	159	GLU	C-N-CA	7.38	129.06	119.84
1	7n	169	TYR	N-CA-C	7.38	119.32	111.28
1	7I	181	VAL	N-CA-C	7.38	118.14	110.62
1	8m	70	LYS	CA-C-O	7.38	128.30	120.70
1	8D	42	ALA	CA-C-N	7.38	130.49	120.38
1	8D	42	ALA	C-N-CA	7.38	130.49	120.38
1	93	73	ILE	CA-C-N	7.38	130.03	120.44
1	93	73	ILE	C-N-CA	7.38	130.03	120.44
1	9C	84	HIS	CA-C-N	7.38	129.06	119.84
1	9C	84	HIS	C-N-CA	7.38	129.06	119.84
1	aA	130	TYR	CA-C-N	7.38	130.16	120.28
1	aA	130	TYR	C-N-CA	7.38	130.16	120.28
1	br	108	THR	CA-CB-OG1	7.38	120.66	109.60
1	bv	183	ASN	N-CA-C	7.38	119.96	111.11
1	bC	90	PRO	N-CA-C	7.38	123.28	111.26
1	bN	154	ARG	CA-C-O	-7.38	112.73	120.99
1	cB	84	HIS	ND1-CE1-NE2	7.38	115.78	108.40
1	d0	69	LEU	CA-C-N	7.38	130.50	120.54
1	d0	69	LEU	C-N-CA	7.38	130.50	120.54
1	dy	25	LYS	N-CA-C	7.38	119.96	111.11
1	dQ	214	MET	N-CA-C	7.38	119.32	111.28
1	eT	126	VAL	N-CA-C	7.38	118.14	110.62
1	fl	184	TRP	CA-C-N	7.38	130.49	120.38
1	fl	184	TRP	C-N-CA	7.38	130.49	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	219	GLN	N-CA-C	7.38	120.64	110.24
1	D	204	ALA	N-CA-C	7.38	119.32	111.28
1	hT	41	SER	O-C-N	-7.38	113.20	122.27
1	iI	48	THR	CA-CB-OG1	7.38	120.66	109.60
1	kN	62	HIS	CA-C-N	7.38	130.16	120.28
1	kN	62	HIS	C-N-CA	7.38	130.16	120.28
1	32	11	VAL	N-CA-CB	7.38	124.22	111.39
1	37	173	ARG	N-CA-C	7.38	119.32	111.28
1	3r	68	MET	CA-C-O	7.38	128.56	120.82
1	3Z	145	TYR	CA-C-O	7.38	128.19	119.56
1	71	195	ASN	CA-C-N	7.38	129.06	119.84
1	71	195	ASN	C-N-CA	7.38	129.06	119.84
1	7i	206	GLY	CA-C-O	-7.38	110.97	121.52
1	8l	114	GLN	N-CA-C	7.38	119.32	111.28
1	8V	87	HIS	CE1-NE2-CD2	-7.38	101.62	109.00
1	95	125	PRO	CA-C-N	7.38	129.85	120.56
1	95	125	PRO	C-N-CA	7.38	129.85	120.56
1	a0	179	GLN	N-CA-CB	7.38	120.70	110.01
1	bx	211	LEU	N-CA-CB	7.38	120.96	110.12
1	ej	43	LEU	O-C-N	-7.38	114.30	122.12
1	z	150	ILE	CA-C-N	7.38	130.48	120.38
1	z	150	ILE	C-N-CA	7.38	130.48	120.38
1	N	114	GLN	OE1-CD-NE2	7.38	129.97	122.60
1	gC	72	THR	CA-C-N	7.37	129.85	120.56
1	gC	72	THR	C-N-CA	7.37	129.85	120.56
1	gE	139	ASN	O-C-N	-7.37	114.30	122.12
1	gT	58	THR	N-CA-CB	7.37	120.96	110.12
1	hw	177	ALA	N-CA-C	7.37	120.38	110.35
1	hF	21	ASN	N-CA-C	7.37	119.32	111.28
1	jI	198	CYS	O-C-N	-7.37	114.30	122.12
1	jS	127	GLY	CA-C-N	7.37	130.38	120.65
1	jS	127	GLY	C-N-CA	7.37	130.38	120.65
1	km	148	THR	CA-C-N	7.37	131.34	120.87
1	km	148	THR	C-N-CA	7.37	131.34	120.87
1	kI	73	ILE	N-CA-C	7.37	118.14	110.62
1	lo	68	MET	CA-C-N	7.37	130.16	120.28
1	lo	68	MET	C-N-CA	7.37	130.16	120.28
1	lo	186	THR	CA-C-N	7.37	130.03	120.44
1	lo	186	THR	C-N-CA	7.37	130.03	120.44
1	2v	110	THR	CA-C-N	7.37	130.48	120.38
1	2v	110	THR	C-N-CA	7.37	130.48	120.38
1	2v	120	HIS	CE1-NE2-CD2	-7.37	101.63	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	159	GLU	CA-C-N	7.37	129.06	119.84
1	34	159	GLU	C-N-CA	7.37	129.06	119.84
1	3E	171	THR	CA-C-N	7.37	130.16	120.28
1	3E	171	THR	C-N-CA	7.37	130.16	120.28
1	3R	101	GLY	CA-C-N	7.37	130.16	120.28
1	3R	101	GLY	C-N-CA	7.37	130.16	120.28
1	3Y	161	PHE	CA-CB-CG	-7.37	106.43	113.80
1	42	71	GLU	CA-C-N	7.37	130.16	120.28
1	42	71	GLU	C-N-CA	7.37	130.16	120.28
1	5a	52	LEU	N-CA-C	7.37	119.32	111.28
1	5i	177	ALA	O-C-N	-7.37	114.68	122.94
1	5L	28	GLU	N-CA-C	7.37	118.96	111.07
1	7f	26	VAL	O-C-N	-7.37	114.68	121.91
1	7L	124	ILE	O-C-N	-7.37	111.74	120.66
1	8Y	33	SER	N-CA-C	-7.37	99.70	108.25
1	8Z	68	MET	N-CA-C	7.37	119.32	111.28
1	aj	183	ASN	N-CA-C	7.37	119.32	111.28
1	aE	116	GLY	O-C-N	-7.37	115.10	122.18
1	aX	107	THR	N-CA-C	7.37	118.96	111.07
1	b3	21	ASN	CA-C-N	7.37	130.16	120.28
1	b3	21	ASN	C-N-CA	7.37	130.16	120.28
1	bd	34	PRO	CA-C-N	7.37	130.38	120.65
1	bd	34	PRO	C-N-CA	7.37	130.38	120.65
1	bE	144	MET	N-CA-C	7.37	118.96	111.07
1	bL	108	THR	CA-CB-OG1	7.37	120.66	109.60
1	cn	37	ILE	O-C-N	-7.37	112.69	121.10
1	cI	121	ASN	OD1-CG-ND2	-7.37	115.23	122.60
1	cJ	146	SER	CA-C-O	-7.37	113.86	119.32
1	d0	100	ARG	NE-CZ-NH2	-7.37	112.56	119.20
1	de	111	LEU	CA-C-N	7.37	130.90	120.28
1	de	111	LEU	C-N-CA	7.37	130.90	120.28
1	di	205	LEU	N-CA-CB	7.37	120.96	110.12
1	dC	47	ALA	N-CA-C	7.37	120.92	110.23
1	dW	34	PRO	CA-C-N	7.37	131.15	120.38
1	dW	34	PRO	C-N-CA	7.37	131.15	120.38
1	eu	69	LEU	CA-C-N	7.37	130.03	120.44
1	eu	69	LEU	C-N-CA	7.37	130.03	120.44
1	1r	152	ASP	CA-CB-CG	7.37	119.97	112.60
1	eC	117	TRP	N-CA-C	7.37	119.40	111.36
1	gc	120	HIS	CA-CB-CG	7.37	121.17	113.80
1	gn	106	GLY	CA-C-O	7.37	127.19	119.01
1	gv	189	LEU	CA-C-N	7.37	130.02	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	189	LEU	C-N-CA	7.37	130.02	120.44
1	hE	195	ASN	CA-C-N	7.37	127.39	119.28
1	hE	195	ASN	C-N-CA	7.37	127.39	119.28
1	hQ	41	SER	N-CA-C	7.37	119.32	111.28
1	1O	40	PHE	N-CA-C	7.37	119.31	111.28
1	jt	124	ILE	CA-C-O	-7.37	114.40	119.19
1	jF	4	GLN	N-CA-C	7.37	121.08	110.10
1	jP	110	THR	O-C-N	-7.37	114.12	122.75
1	jR	87	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	k2	227	LYS	CA-C-O	7.37	128.41	119.49
1	2f	133	TRP	N-CA-C	7.37	119.39	111.36
1	2C	131	LYS	O-C-N	-7.37	114.31	122.12
1	2I	179	GLN	N-CA-C	7.37	119.31	111.28
1	30	12	HIS	ND1-CE1-NE2	7.37	115.77	108.40
1	3p	127	GLY	N-CA-C	-7.37	103.57	112.49
1	3S	84	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	3T	32	PHE	CA-C-N	7.37	131.20	120.51
1	3T	32	PHE	C-N-CA	7.37	131.20	120.51
1	6Z	28	GLU	N-CA-C	7.37	119.32	111.28
1	7k	156	GLY	O-C-N	-7.37	114.40	121.77
1	7M	182	LYS	N-CA-C	7.37	120.19	111.71
1	7Z	141	ILE	CA-C-N	7.37	130.56	120.46
1	7Z	141	ILE	C-N-CA	7.37	130.56	120.46
1	9G	136	LEU	O-C-N	-7.37	114.31	122.12
1	aq	55	MET	O-C-N	-7.37	114.31	122.12
1	aV	58	THR	CA-CB-CG2	-7.37	97.97	110.50
1	b4	154	ARG	NE-CZ-NH1	7.37	128.87	121.50
1	ca	56	LEU	O-C-N	-7.37	114.13	122.09
1	cU	128	GLU	N-CA-C	7.37	119.39	111.36
1	d5	53	ASN	OD1-CG-ND2	-7.37	115.23	122.60
1	de	193	ASN	CA-C-O	7.37	128.29	119.59
1	e6	80	TRP	CB-CG-CD1	-7.37	115.84	126.90
1	P	72	THR	CA-C-O	-7.37	113.11	120.70
1	jQ	158	LYS	CA-C-O	7.37	127.25	119.14
1	kN	193	ASN	CA-C-N	7.37	131.21	120.82
1	kN	193	ASN	C-N-CA	7.37	131.21	120.82
1	lK	166	ASP	CA-C-N	7.37	130.16	120.28
1	lK	166	ASP	C-N-CA	7.37	130.16	120.28
1	5W	223	GLY	CA-C-N	7.37	129.05	119.84
1	5W	223	GLY	C-N-CA	7.37	129.05	119.84
1	8i	121	ASN	OD1-CG-ND2	-7.37	115.23	122.60
1	9g	84	HIS	CE1-NE2-CD2	-7.37	101.63	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	74	ASN	CA-CB-CG	-7.37	105.23	112.60
1	9E	79	GLU	N-CA-C	7.37	119.31	111.28
1	a7	100	ARG	CA-C-N	7.37	128.32	119.99
1	a7	100	ARG	C-N-CA	7.37	128.32	119.99
1	10	170	LYS	CA-C-N	7.37	130.75	120.29
1	10	170	LYS	C-N-CA	7.37	130.75	120.29
1	bp	22	ALA	CA-C-N	7.37	130.02	120.44
1	bp	22	ALA	C-N-CA	7.37	130.02	120.44
1	e0	29	GLU	N-CA-C	7.37	119.10	111.14
1	ea	135	ILE	CA-C-N	7.37	130.02	120.44
1	ea	135	ILE	C-N-CA	7.37	130.02	120.44
1	ei	172	LEU	O-C-N	-7.37	114.31	122.12
1	ev	159	GLU	N-CA-C	7.37	119.00	109.64
1	eX	87	HIS	CA-C-O	7.37	129.30	121.19
1	fq	216	THR	CA-CB-CG2	-7.37	97.97	110.50
1	X	161	PHE	N-CA-C	7.37	120.19	111.71
1	gC	53	ASN	N-CA-C	7.37	118.95	111.07
1	gC	168	PHE	CA-C-N	7.37	130.15	120.28
1	gC	168	PHE	C-N-CA	7.37	130.15	120.28
1	gD	160	PRO	CA-C-O	-7.37	115.86	121.31
1	hg	195	ASN	CA-C-N	7.37	126.63	118.97
1	hg	195	ASN	C-N-CA	7.37	126.63	118.97
1	hG	229	ARG	N-CA-C	7.37	121.69	109.46
1	1M	183	ASN	CA-CB-CG	-7.37	105.23	112.60
1	ib	198	CYS	CA-C-N	7.37	131.14	120.38
1	ib	198	CYS	C-N-CA	7.37	131.14	120.38
1	is	193	ASN	CA-C-N	7.37	131.29	120.90
1	is	193	ASN	C-N-CA	7.37	131.29	120.90
1	jk	62	HIS	ND1-CE1-NE2	7.37	115.77	108.40
1	jp	144	MET	O-C-N	-7.37	114.31	122.12
1	1Z	131	LYS	CB-CA-C	7.37	123.21	110.68
1	k5	73	ILE	CB-CA-C	-7.37	102.19	112.14
1	kY	18	ARG	CA-C-N	7.37	130.02	120.44
1	kY	18	ARG	C-N-CA	7.37	130.02	120.44
1	l0	200	THR	O-C-N	-7.37	114.13	122.09
1	lb	139	ASN	CA-CB-CG	-7.37	105.23	112.60
1	lc	53	ASN	O-C-N	-7.37	113.75	122.15
1	lq	67	GLN	CA-C-N	7.37	130.15	120.28
1	lq	67	GLN	C-N-CA	7.37	130.15	120.28
1	lD	141	ILE	N-CA-C	7.37	118.16	110.72
1	4a	145	TYR	CA-CB-CG	7.37	127.16	113.90
1	5D	144	MET	N-CA-C	7.37	119.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	196	PRO	CB-CA-C	-7.37	101.50	112.55
1	7r	216	THR	CA-C-N	7.37	131.17	120.71
1	7r	216	THR	C-N-CA	7.37	131.17	120.71
1	7C	33	SER	CA-C-O	-7.37	113.79	120.13
1	9J	70	LYS	N-CA-CB	7.37	120.69	110.01
1	9N	80	TRP	CZ3-CH2-CZ2	-7.37	111.92	121.50
1	12	209	ALA	N-CA-C	7.37	121.07	110.24
1	b8	135	ILE	O-C-N	-7.37	114.72	121.87
1	bx	53	ASN	CA-CB-CG	-7.37	105.23	112.60
1	fn	24	VAL	O-C-N	-7.37	114.69	121.91
1	fs	87	HIS	CE1-NE2-CD2	-7.37	101.63	109.00
1	fU	124	ILE	O-C-N	-7.37	114.14	120.92
1	gf	112	GLN	N-CA-C	7.37	120.36	111.82
1	1D	142	VAL	O-C-N	-7.37	114.43	121.87
1	gG	6	LEU	N-CA-C	7.37	120.37	111.82
1	iN	228	ALA	O-C-N	-7.37	114.45	122.85
1	j5	37	ILE	O-C-N	-7.37	112.70	121.10
1	jc	184	TRP	CD2-CE2-CZ2	-7.37	115.03	122.40
1	jy	167	ARG	O-C-N	-7.37	114.31	122.12
1	jM	184	TRP	CA-C-O	7.37	128.36	120.55
1	jT	53	ASN	O-C-N	-7.37	114.31	122.12
1	28	111	LEU	CA-C-N	7.37	130.15	120.28
1	28	111	LEU	C-N-CA	7.37	130.15	120.28
1	lH	219	GLN	N-CA-C	7.37	120.63	110.24
1	lI	41	SER	N-CA-C	7.37	119.31	111.28
1	2f	166	ASP	CA-C-N	7.37	130.15	120.28
1	2f	166	ASP	C-N-CA	7.37	130.15	120.28
1	4J	148	THR	CA-C-O	7.37	127.81	120.88
1	6n	168	PHE	N-CA-C	7.37	119.00	110.97
1	84	207	PRO	CA-C-O	7.37	127.08	118.68
1	9b	41	SER	CA-C-O	-7.37	112.74	120.55
1	9N	143	ARG	CA-C-O	7.37	128.36	120.55
1	bt	155	GLN	CA-C-N	7.37	130.79	121.36
1	bt	155	GLN	C-N-CA	7.37	130.79	121.36
1	dv	162	ARG	N-CA-C	7.37	119.31	111.28
1	fB	161	PHE	CA-C-N	7.37	131.87	120.82
1	fB	161	PHE	C-N-CA	7.37	131.87	120.82
1	fO	135	ILE	CA-C-N	7.37	130.02	120.44
1	fO	135	ILE	C-N-CA	7.37	130.02	120.44
1	fU	195	ASN	CA-CB-CG	7.37	119.97	112.60
1	e	133	TRP	O-C-N	-7.37	112.65	122.23
1	6	168	PHE	N-CA-C	7.37	120.01	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gc	63	GLN	N-CA-C	7.37	119.31	111.28
1	gi	50	GLN	O-C-N	-7.37	114.48	122.07
1	gz	124	ILE	O-C-N	-7.37	113.89	120.96
1	h9	5	ASN	CA-CB-CG	-7.37	105.23	112.60
1	he	186	THR	N-CA-C	7.37	119.31	111.28
1	1I	229	ARG	NH1-CZ-NH2	-7.37	109.73	119.30
1	iF	70	LYS	N-CA-C	7.37	118.95	111.07
1	jx	96	MET	CA-C-O	7.37	128.46	120.58
1	k0	137	GLY	CA-C-N	7.37	130.75	120.29
1	k0	137	GLY	C-N-CA	7.37	130.75	120.29
1	kN	33	SER	CA-C-N	7.37	127.00	119.19
1	kN	33	SER	C-N-CA	7.37	127.00	119.19
1	kY	81	ASP	N-CA-C	7.37	119.09	111.14
1	2j	222	GLY	N-CA-C	7.37	124.47	111.73
1	2L	98	GLU	O-C-N	-7.37	114.75	121.30
1	2X	76	GLU	CA-C-N	7.37	130.46	120.44
1	2X	76	GLU	C-N-CA	7.37	130.46	120.44
1	3u	74	ASN	CA-C-N	7.37	130.15	120.28
1	3u	74	ASN	C-N-CA	7.37	130.15	120.28
1	3G	182	LYS	CA-C-O	7.37	128.44	119.31
1	4j	120	HIS	CG-CD2-NE2	7.37	114.56	107.20
1	4u	5	ASN	O-C-N	-7.37	112.66	121.79
1	5w	132	ARG	N-CA-C	7.37	119.31	111.28
1	5w	162	ARG	NH1-CZ-NH2	-7.37	109.73	119.30
1	7A	178	SER	N-CA-C	7.37	119.81	110.24
1	8m	16	SER	N-CA-CB	7.37	120.52	110.14
1	8X	16	SER	CA-C-N	7.37	127.38	119.28
1	8X	16	SER	C-N-CA	7.37	127.38	119.28
1	9S	23	TRP	N-CA-C	7.37	119.95	111.11
1	9S	72	THR	N-CA-CB	7.37	120.69	110.01
1	a5	173	ARG	N-CA-C	7.37	118.95	111.07
1	aa	25	LYS	N-CA-C	7.37	120.18	111.71
1	b1	144	MET	CA-C-N	7.37	130.75	120.29
1	b1	144	MET	C-N-CA	7.37	130.75	120.29
1	bf	226	HIS	O-C-N	-7.37	112.79	122.59
1	17	228	ALA	N-CA-C	7.37	121.84	110.20
1	bE	192	GLN	N-CA-C	7.37	121.53	112.54
1	bX	97	ARG	NE-CZ-NH1	7.37	128.87	121.50
1	cs	144	MET	O-C-N	-7.37	114.31	122.12
1	cV	132	ARG	NE-CZ-NH2	-7.37	112.57	119.20
1	ds	190	LEU	N-CA-CB	-7.37	99.01	110.06
1	dJ	56	LEU	N-CA-C	7.37	118.95	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1q	220	GLY	O-C-N	-7.37	113.12	122.70
1	et	114	GLN	OE1-CD-NE2	-7.37	115.23	122.60
1	fA	198	CYS	CA-C-N	7.37	130.75	120.29
1	fA	198	CYS	C-N-CA	7.37	130.75	120.29
1	u	33	SER	CA-C-O	-7.37	110.07	120.16
1	x	33	SER	CA-C-N	7.37	129.05	119.84
1	x	33	SER	C-N-CA	7.37	129.05	119.84
1	gi	93	PRO	N-CA-C	7.36	122.82	111.11
1	gA	49	PRO	CA-C-N	7.36	130.75	120.29
1	gA	49	PRO	C-N-CA	7.36	130.75	120.29
1	gL	166	ASP	CA-C-N	7.36	130.01	120.44
1	gL	166	ASP	C-N-CA	7.36	130.01	120.44
1	hn	50	GLN	N-CA-C	7.36	119.31	111.28
1	hw	209	ALA	N-CA-C	7.36	120.91	110.23
1	in	72	THR	N-CA-C	7.36	120.36	111.82
1	iW	176	GLN	CA-C-N	7.36	132.50	120.94
1	iW	176	GLN	C-N-CA	7.36	132.50	120.94
1	je	52	LEU	N-CA-C	7.36	118.95	111.07
1	jg	40	PHE	O-C-N	-7.36	113.75	122.15
1	kO	148	THR	N-CA-CB	7.36	120.82	109.85
1	kX	150	ILE	CA-C-N	7.36	130.15	120.28
1	kX	150	ILE	C-N-CA	7.36	130.15	120.28
1	l0	31	ALA	O-C-N	-7.36	112.80	122.59
1	l1	185	MET	N-CA-C	7.36	118.95	111.07
1	ls	37	ILE	N-CA-CB	-7.36	105.86	110.50
1	ly	157	PRO	CA-C-N	7.36	133.78	122.29
1	ly	157	PRO	C-N-CA	7.36	133.78	122.29
1	2w	133	TRP	CA-C-O	7.36	128.55	120.82
1	2S	127	GLY	CA-C-O	7.36	128.47	120.66
1	37	5	ASN	N-CA-C	7.36	120.08	108.67
1	3i	207	PRO	CA-C-O	-7.36	113.29	121.32
1	4d	141	ILE	N-CA-C	7.36	117.49	110.42
1	4o	132	ARG	NE-CZ-NH2	-7.36	112.57	119.20
1	4E	132	ARG	NE-CZ-NH2	-7.36	112.57	119.20
1	4P	32	PHE	CA-CB-CG	-7.36	106.44	113.80
1	51	155	GLN	CA-C-O	-7.36	112.53	120.92
1	59	94	GLY	CA-C-N	7.36	135.60	121.54
1	59	94	GLY	C-N-CA	7.36	135.60	121.54
1	6g	124	ILE	N-CA-C	7.36	115.20	107.76
1	6l	38	PRO	CA-C-N	7.36	132.90	121.19
1	6l	38	PRO	C-N-CA	7.36	132.90	121.19
1	6u	92	GLU	CA-C-N	7.36	127.34	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6u	92	GLU	C-N-CA	7.36	127.34	119.76
1	75	68	MET	CA-C-N	7.36	130.75	120.29
1	75	68	MET	C-N-CA	7.36	130.75	120.29
1	7i	5	ASN	N-CA-CB	-7.36	100.22	110.38
1	7B	12	HIS	CE1-NE2-CD2	-7.36	101.64	109.00
1	7B	59	VAL	O-C-N	-7.36	114.65	122.68
1	8z	84	HIS	CA-C-N	7.36	127.78	119.83
1	8z	84	HIS	C-N-CA	7.36	127.78	119.83
1	8Y	138	LEU	CA-C-N	7.36	130.15	120.28
1	8Y	138	LEU	C-N-CA	7.36	130.15	120.28
1	9Z	184	TRP	CA-C-O	7.36	128.22	120.42
1	aj	132	ARG	NE-CZ-NH2	-7.36	112.57	119.20
1	ak	67	GLN	N-CA-C	7.36	118.95	111.07
1	ba	94	GLY	O-C-N	-7.36	115.47	123.05
1	bh	166	ASP	CA-CB-CG	7.36	119.96	112.60
1	bA	54	THR	CA-C-N	7.36	130.75	120.29
1	bA	54	THR	C-N-CA	7.36	130.75	120.29
1	bI	69	LEU	N-CA-C	7.36	119.31	111.28
1	c9	114	GLN	OE1-CD-NE2	-7.36	115.24	122.60
1	cd	139	ASN	CA-CB-CG	7.36	119.96	112.60
1	cf	214	MET	N-CA-C	7.36	119.31	111.28
1	1e	169	TYR	CA-C-O	7.36	128.36	120.55
1	cq	221	VAL	O-C-N	7.36	129.56	122.20
1	cZ	203	LYS	N-CA-C	7.36	119.31	111.28
1	dq	155	GLN	CA-C-N	7.36	130.79	121.36
1	dq	155	GLN	C-N-CA	7.36	130.79	121.36
1	eH	17	PRO	N-CA-C	-7.36	103.94	114.18
1	fr	154	ARG	CA-C-N	7.36	131.20	120.82
1	fr	154	ARG	C-N-CA	7.36	131.20	120.82
1	H	53	ASN	CA-C-O	-7.36	112.75	120.55
1	gy	54	THR	N-CA-C	7.36	119.31	111.28
1	iP	143	ARG	NH1-CZ-NH2	-7.36	109.73	119.30
1	kk	146	SER	CB-CA-C	-7.36	102.00	110.17
1	kt	98	GLU	CA-C-O	-7.36	113.62	119.66
1	lo	68	MET	O-C-N	-7.36	114.32	122.12
1	lQ	64	ALA	CA-C-N	7.36	130.15	120.28
1	lQ	64	ALA	C-N-CA	7.36	130.15	120.28
1	3c	62	HIS	ND1-CG-CD2	7.36	113.46	106.10
1	3G	66	MET	N-CA-C	7.36	118.95	111.07
1	3I	34	PRO	O-C-N	-7.36	112.29	122.30
1	3V	162	ARG	N-CA-C	7.36	120.36	111.82
1	4o	173	ARG	NE-CZ-NH2	7.36	125.83	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4w	138	LEU	CA-C-N	7.36	130.15	120.28
1	4w	138	LEU	C-N-CA	7.36	130.15	120.28
1	7g	26	VAL	N-CA-C	7.36	120.25	111.05
1	9w	18	ARG	NE-CZ-NH2	-7.36	112.57	119.20
1	9w	78	ALA	CA-C-N	7.36	130.48	120.54
1	9w	78	ALA	C-N-CA	7.36	130.48	120.54
1	9B	217	ALA	N-CA-C	7.36	119.09	111.14
1	aG	50	GLN	OE1-CD-NE2	-7.36	115.24	122.60
1	b0	146	SER	N-CA-C	7.36	123.61	113.16
1	cg	59	VAL	N-CA-C	7.36	118.50	109.30
1	e1	149	SER	CA-C-N	7.36	132.86	120.64
1	e1	149	SER	C-N-CA	7.36	132.86	120.64
1	fn	178	SER	N-CA-C	7.36	120.25	110.53
1	t	62	HIS	CA-C-N	7.36	130.15	120.28
1	t	62	HIS	C-N-CA	7.36	130.15	120.28
1	3	93	PRO	N-CA-CB	7.36	109.75	103.35
1	6	139	ASN	OD1-CG-ND2	-7.36	115.24	122.60
1	gh	162	ARG	N-CA-C	7.36	120.24	111.33
1	gq	4	GLN	OE1-CD-NE2	-7.36	115.24	122.60
1	gW	143	ARG	NE-CZ-NH1	7.36	128.86	121.50
1	h6	162	ARG	N-CA-C	7.36	120.17	111.71
1	ie	212	GLU	CA-C-N	7.36	130.14	120.28
1	ie	212	GLU	C-N-CA	7.36	130.14	120.28
1	jc	28	GLU	N-CA-C	7.36	119.30	111.28
1	k7	86	VAL	CA-C-N	7.36	131.16	120.71
1	k7	86	VAL	C-N-CA	7.36	131.16	120.71
1	ks	98	GLU	O-C-N	-7.36	114.75	121.30
1	kw	114	GLN	OE1-CD-NE2	-7.36	115.24	122.60
1	23	127	GLY	CA-C-O	7.36	128.46	120.66
1	kT	212	GLU	CA-C-N	7.36	130.74	120.29
1	kT	212	GLU	C-N-CA	7.36	130.74	120.29
1	2i	163	ASP	O-C-N	-7.36	114.32	122.12
1	2M	155	GLN	OE1-CD-NE2	-7.36	115.24	122.60
1	36	184	TRP	N-CA-C	7.36	119.94	111.11
1	3v	138	LEU	N-CA-C	7.36	120.24	111.33
1	44	144	MET	N-CA-C	7.36	119.30	111.28
1	4p	82	ARG	O-C-N	7.36	130.54	122.15
1	4y	62	HIS	ND1-CE1-NE2	7.36	115.76	108.40
1	4D	62	HIS	CB-CG-CD2	-7.36	121.63	131.20
1	4O	204	ALA	CA-C-O	7.36	128.35	120.55
1	54	199	LYS	N-CA-C	7.36	119.30	111.28
1	6c	65	ALA	N-CA-C	7.36	120.36	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	76	180	GLU	N-CA-CB	7.36	120.94	110.12
1	7D	100	ARG	NE-CZ-NH1	7.36	128.86	121.50
1	7K	229	ARG	NE-CZ-NH2	-7.36	112.58	119.20
1	8f	41	SER	N-CA-C	7.36	119.94	111.11
1	8p	119	THR	N-CA-C	-7.36	103.44	113.30
1	8R	197	ASP	N-CA-CB	7.36	120.94	110.12
1	9K	124	ILE	N-CA-CB	7.36	119.37	111.20
1	ac	193	ASN	CA-CB-CG	-7.36	105.24	112.60
1	bl	82	ARG	CA-C-N	7.36	130.74	120.29
1	bl	82	ARG	C-N-CA	7.36	130.74	120.29
1	1e	226	HIS	CA-CB-CG	-7.36	106.44	113.80
1	cS	129	ILE	CB-CA-C	-7.36	102.55	111.97
1	d3	124	ILE	CB-CA-C	7.36	119.24	110.78
1	1l	170	LYS	CA-C-N	7.36	130.14	120.28
1	1l	170	LYS	C-N-CA	7.36	130.14	120.28
1	en	139	ASN	OD1-CG-ND2	-7.36	115.24	122.60
1	eE	116	GLY	O-C-N	-7.36	115.12	122.19
1	eP	194	ALA	N-CA-C	7.36	120.36	110.35
1	fp	10	MET	N-CA-C	7.36	121.53	110.64
1	fu	213	GLU	O-C-N	-7.36	113.22	122.27
1	fz	184	TRP	CA-C-N	7.36	130.46	120.38
1	fz	184	TRP	C-N-CA	7.36	130.46	120.38
1	fV	120	HIS	CE1-NE2-CD2	-7.36	101.64	109.00
1	fY	212	GLU	CA-C-N	7.36	130.37	120.65
1	fY	212	GLU	C-N-CA	7.36	130.37	120.65
1	g7	135	ILE	N-CA-C	7.36	118.13	110.62
1	S	74	ASN	O-C-N	-7.36	114.44	122.09
1	gB	92	GLU	CA-C-N	7.36	129.04	119.84
1	gB	92	GLU	C-N-CA	7.36	129.04	119.84
1	h8	139	ASN	OD1-CG-ND2	-7.36	115.24	122.60
1	k0	50	GLN	N-CA-C	7.36	119.30	111.28
1	4x	7	GLN	CB-CG-CD	7.36	125.11	112.60
1	5f	112	GLN	CA-C-N	7.36	130.01	120.44
1	5f	112	GLN	C-N-CA	7.36	130.01	120.44
1	5i	168	PHE	O-C-N	-7.36	114.21	122.08
1	6b	19	THR	O-C-N	-7.36	114.49	122.07
1	6B	112	GLN	N-CA-C	7.36	119.30	111.28
1	84	51	ASP	O-C-N	-7.36	114.32	122.12
1	9b	206	GLY	N-CA-C	7.36	121.13	112.23
1	9Z	183	ASN	N-CA-C	7.36	119.30	111.28
1	a3	22	ALA	N-CA-C	7.36	119.30	111.28
1	bf	98	GLU	CA-C-N	7.36	127.78	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	98	GLU	C-N-CA	7.36	127.78	119.83
1	19	134	ILE	O-C-N	-7.36	114.58	121.94
1	cP	104	ILE	N-CA-C	7.36	118.09	110.36
1	dp	9	GLN	CA-C-N	7.36	132.49	120.94
1	dp	9	GLN	C-N-CA	7.36	132.49	120.94
1	fc	128	GLU	CA-C-N	7.36	129.83	120.56
1	fc	128	GLU	C-N-CA	7.36	129.83	120.56
1	k	216	THR	CA-C-N	7.36	130.14	120.28
1	k	216	THR	C-N-CA	7.36	130.14	120.28
1	gC	37	ILE	O-C-N	-7.36	115.71	120.42
1	1N	201	ILE	N-CA-C	7.36	118.12	110.62
1	iH	217	ALA	N-CA-C	7.36	119.81	110.24
1	jp	65	ALA	N-CA-C	7.36	119.30	111.28
1	kh	120	HIS	ND1-CE1-NE2	7.36	115.76	108.40
1	ku	125	PRO	CA-C-N	7.36	129.83	120.56
1	ku	125	PRO	C-N-CA	7.36	129.83	120.56
1	kw	177	ALA	N-CA-C	7.36	126.47	110.80
1	kz	18	ARG	NE-CZ-NH2	-7.36	112.58	119.20
1	l0	95	GLN	O-C-N	-7.36	114.83	123.22
1	la	206	GLY	CA-C-N	7.36	129.04	119.84
1	la	206	GLY	C-N-CA	7.36	129.04	119.84
1	2R	204	ALA	CA-C-N	7.36	130.45	120.44
1	2R	204	ALA	C-N-CA	7.36	130.45	120.44
1	46	18	ARG	CA-C-N	7.36	130.01	120.44
1	46	18	ARG	C-N-CA	7.36	130.01	120.44
1	4c	86	VAL	N-CA-C	7.36	120.05	108.87
1	4h	141	ILE	N-CA-CB	7.36	119.16	110.55
1	4F	123	PRO	CA-C-N	7.36	127.89	122.59
1	4F	123	PRO	C-N-CA	7.36	127.89	122.59
1	5a	74	ASN	CB-CA-C	-7.36	98.58	110.79
1	5E	11	VAL	O-C-N	-7.36	114.57	123.03
1	6b	89	GLY	CA-C-N	7.36	129.04	119.84
1	6b	89	GLY	C-N-CA	7.36	129.04	119.84
1	6l	100	ARG	NE-CZ-NH2	-7.36	112.58	119.20
1	6r	112	GLN	CA-C-N	7.36	130.14	120.28
1	6r	112	GLN	C-N-CA	7.36	130.14	120.28
1	77	98	GLU	O-C-N	-7.36	113.19	121.43
1	7c	75	GLU	O-C-N	-7.36	113.76	122.15
1	85	173	ARG	O-C-N	-7.36	114.32	122.12
1	8O	135	ILE	N-CA-C	7.36	118.12	110.62
1	9f	109	SER	O-C-N	-7.36	114.70	123.31
1	9i	183	ASN	N-CA-CB	7.36	120.68	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	25	LYS	N-CA-C	7.36	119.30	111.28
1	bP	224	PRO	N-CA-C	7.36	122.78	111.15
1	c7	20	LEU	N-CA-C	7.36	119.30	111.28
1	cA	167	ARG	NE-CZ-NH1	7.36	128.86	121.50
1	d6	140	LYS	CA-C-N	7.36	129.83	120.56
1	d6	140	LYS	C-N-CA	7.36	129.83	120.56
1	de	5	ASN	OD1-CG-ND2	-7.36	115.24	122.60
1	1t	140	LYS	N-CA-C	7.36	120.23	111.33
1	1t	188	THR	CA-C-N	7.36	130.14	120.28
1	1t	188	THR	C-N-CA	7.36	130.14	120.28
1	fi	11	VAL	O-C-N	-7.36	114.30	122.83
1	fY	33	SER	CA-C-O	-7.36	113.27	120.26
1	g7	94	GLY	O-C-N	-7.36	115.03	122.54
1	i	12	HIS	ND1-CE1-NE2	7.36	115.76	108.40
1	n	23	TRP	CA-CB-CG	7.36	127.58	113.60
1	y	21	ASN	CA-CB-CG	7.36	119.96	112.60
1	W	87	HIS	N-CA-C	7.36	121.16	110.42
1	gG	67	GLN	N-CA-C	7.36	119.30	111.28
1	gG	147	PRO	N-CA-CB	7.36	110.97	103.25
1	hv	120	HIS	CA-CB-CG	7.36	121.16	113.80
1	hR	87	HIS	CG-CD2-NE2	7.36	114.56	107.20
1	iQ	68	MET	CA-C-N	7.36	130.00	120.44
1	iQ	68	MET	C-N-CA	7.36	130.00	120.44
1	jV	9	GLN	O-C-N	-7.36	114.70	122.94
1	kq	120	HIS	O-C-N	-7.36	114.40	122.79
1	kC	177	ALA	N-CA-CB	-7.36	99.84	110.36
1	kX	123	PRO	CA-C-N	-7.36	116.27	123.04
1	kX	123	PRO	C-N-CA	-7.36	116.27	123.04
1	2j	22	ALA	N-CA-CB	-7.36	99.34	110.01
1	2A	146	SER	N-CA-C	7.36	123.60	113.16
1	3b	219	GLN	N-CA-C	7.36	122.28	113.16
1	3M	96	MET	N-CA-C	7.36	120.61	110.24
1	3P	116	GLY	O-C-N	-7.36	115.13	122.19
1	4k	111	LEU	N-CA-C	7.36	119.30	111.28
1	4n	53	ASN	CA-C-O	7.36	128.28	120.70
1	4Y	193	ASN	CA-CB-CG	-7.36	105.25	112.60
1	6e	62	HIS	CA-CB-CG	-7.36	106.44	113.80
1	6g	177	ALA	N-CA-C	7.36	120.61	110.24
1	6H	159	GLU	CA-C-N	7.36	127.39	119.89
1	6H	159	GLU	C-N-CA	7.36	127.39	119.89
1	6S	166	ASP	N-CA-CB	-7.36	99.34	110.01
1	7G	98	GLU	O-C-N	-7.36	114.75	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7P	110	THR	CA-CB-OG1	7.36	120.63	109.60
1	86	81	ASP	CA-CB-CG	7.36	119.95	112.60
1	8p	78	ALA	CA-C-N	7.36	130.14	120.28
1	8p	78	ALA	C-N-CA	7.36	130.14	120.28
1	8r	211	LEU	O-C-N	-7.36	113.77	122.15
1	8v	173	ARG	NE-CZ-NH2	7.36	125.82	119.20
1	9y	23	TRP	CA-C-N	7.36	129.83	120.56
1	9y	23	TRP	C-N-CA	7.36	129.83	120.56
1	aj	4	GLN	O-C-N	-7.36	113.92	122.89
1	19	100	ARG	O-C-N	-7.36	113.60	122.65
1	1b	18	ARG	O-C-N	-7.36	114.44	122.09
1	bY	53	ASN	OD1-CG-ND2	-7.36	115.24	122.60
1	c5	115	ILE	O-C-N	-7.36	114.25	121.83
1	cl	55	MET	N-CA-C	7.36	120.23	111.33
1	co	202	LEU	CA-C-O	7.36	128.54	120.82
1	cN	226	HIS	CA-CB-CG	-7.36	106.44	113.80
1	cU	66	MET	O-C-N	-7.36	114.49	122.07
1	1m	117	TRP	N-CA-C	7.36	120.23	111.33
1	ed	120	HIS	CA-CB-CG	7.36	121.16	113.80
1	f3	101	GLY	CA-C-N	7.36	130.14	120.28
1	f3	101	GLY	C-N-CA	7.36	130.14	120.28
1	fg	84	HIS	CA-CB-CG	-7.36	106.44	113.80
1	fU	54	THR	CA-C-N	7.36	130.74	120.29
1	fU	54	THR	C-N-CA	7.36	130.74	120.29
1	0	170	LYS	CA-C-N	7.36	130.14	120.28
1	0	170	LYS	C-N-CA	7.36	130.14	120.28
1	m	31	ALA	N-CA-C	7.36	123.51	111.37
1	u	113	GLU	CA-C-N	7.36	130.47	120.54
1	u	113	GLU	C-N-CA	7.36	130.47	120.54
1	I	229	ARG	CA-C-N	7.36	129.83	120.56
1	I	229	ARG	C-N-CA	7.36	129.83	120.56
1	h2	227	LYS	N-CA-C	-7.35	103.39	112.88
1	hG	113	GLU	N-CA-C	7.35	118.94	111.07
1	j1	212	GLU	O-C-N	7.35	129.64	122.07
1	k0	203	LYS	CA-C-N	7.35	130.00	120.44
1	k0	203	LYS	C-N-CA	7.35	130.00	120.44
1	li	57	ASN	CA-CB-CG	-7.35	105.25	112.60
1	lt	131	LYS	N-CA-C	7.35	119.30	111.28
1	2m	166	ASP	N-CA-C	7.35	119.30	111.28
1	2Z	165	VAL	CA-C-O	-7.35	113.62	121.27
1	3E	120	HIS	ND1-CE1-NE2	7.35	115.75	108.40
1	47	120	HIS	CA-C-O	-7.35	113.34	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	69	20	LEU	N-CA-C	7.35	119.30	111.28
1	6i	124	ILE	N-CA-C	-7.35	99.87	107.89
1	7f	41	SER	N-CA-C	7.35	119.93	111.11
1	7Y	41	SER	CA-C-O	7.35	128.54	120.82
1	9b	24	VAL	N-CA-C	7.35	117.88	110.23
1	9m	138	LEU	N-CA-C	7.35	119.38	111.36
1	9K	95	GLN	CA-C-N	7.35	133.03	121.56
1	9K	95	GLN	C-N-CA	7.35	133.03	121.56
1	cJ	143	ARG	N-CA-C	7.35	119.38	111.36
1	cW	80	TRP	N-CA-C	7.35	119.30	111.28
1	dF	117	TRP	N-CA-C	7.35	120.23	111.33
1	dH	190	LEU	CA-C-N	7.35	130.53	120.46
1	dH	190	LEU	C-N-CA	7.35	130.53	120.46
1	fy	10	MET	N-CA-C	7.35	118.94	111.07
1	i	67	GLN	N-CA-C	7.35	119.30	111.28
1	B	208	ALA	N-CA-C	7.35	121.30	111.30
1	gT	158	LYS	CA-C-O	7.35	128.18	119.28
1	hg	65	ALA	CA-C-N	7.35	130.13	120.28
1	hg	65	ALA	C-N-CA	7.35	130.13	120.28
1	iA	126	VAL	N-CA-C	7.35	119.00	110.62
1	iN	32	PHE	CA-CB-CG	-7.35	106.45	113.80
1	iS	87	HIS	CG-CD2-NE2	7.35	114.55	107.20
1	jn	211	LEU	CA-C-O	7.35	128.34	120.55
1	jt	187	GLU	N-CA-C	7.35	119.30	111.28
1	jF	28	GLU	CA-C-O	-7.35	112.63	120.42
1	jV	65	ALA	O-C-N	-7.35	114.38	122.03
1	jV	141	ILE	O-C-N	-7.35	114.26	121.83
1	jZ	165	VAL	O-C-N	-7.35	114.74	121.87
1	ko	17	PRO	CA-C-N	7.35	130.13	120.28
1	ko	17	PRO	C-N-CA	7.35	130.13	120.28
1	kO	25	LYS	CA-C-N	7.35	129.97	120.56
1	kO	25	LYS	C-N-CA	7.35	129.97	120.56
1	lp	86	VAL	N-CA-C	7.35	118.52	110.21
1	2l	166	ASP	CA-C-N	7.35	130.45	120.38
1	2l	166	ASP	C-N-CA	7.35	130.45	120.38
1	2L	154	ARG	NE-CZ-NH2	-7.35	112.58	119.20
1	37	62	HIS	N-CA-C	7.35	121.54	111.54
1	38	97	ARG	NE-CZ-NH1	7.35	128.85	121.50
1	3b	120	HIS	CE1-NE2-CD2	-7.35	101.65	109.00
1	3j	153	ILE	CA-C-O	-7.35	111.88	119.89
1	3T	229	ARG	NE-CZ-NH2	-7.35	112.58	119.20
1	46	217	ALA	N-CA-C	7.35	120.35	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	77	ALA	O-C-N	-7.35	114.33	122.12
1	5a	184	TRP	O-C-N	-7.35	114.33	122.12
1	5S	156	GLY	O-C-N	-7.35	114.42	121.77
1	6S	21	ASN	N-CA-C	7.35	120.17	111.71
1	7l	95	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	8y	213	GLU	N-CA-C	7.35	119.29	111.28
1	94	51	ASP	CA-C-N	7.35	130.73	120.29
1	94	51	ASP	C-N-CA	7.35	130.73	120.29
1	9g	205	LEU	O-C-N	-7.35	114.33	122.12
1	ao	217	ALA	N-CA-C	7.35	119.80	110.24
1	aU	201	ILE	CA-C-N	7.35	130.00	120.44
1	aU	201	ILE	C-N-CA	7.35	130.00	120.44
1	aX	133	TRP	N-CA-C	7.35	119.29	111.28
1	ba	72	THR	O-C-N	-7.35	113.77	122.15
1	ba	179	GLN	N-CA-C	7.35	119.30	111.28
1	bC	181	VAL	O-C-N	-7.35	114.70	121.91
1	bK	77	ALA	CA-C-O	7.35	128.34	120.55
1	cy	185	MET	CG-SD-CE	-7.35	84.72	100.90
1	cR	135	ILE	O-C-N	-7.35	114.74	121.87
1	cS	162	ARG	N-CA-C	7.35	119.93	111.11
1	e2	71	GLU	CA-C-N	7.35	130.13	120.28
1	e2	71	GLU	C-N-CA	7.35	130.13	120.28
1	ec	43	LEU	N-CA-C	7.35	119.29	111.28
1	f0	41	SER	CA-C-N	7.35	130.13	120.28
1	f0	41	SER	C-N-CA	7.35	130.13	120.28
1	f6	67	GLN	N-CA-C	7.35	119.29	111.28
1	fn	122	PRO	CA-C-N	7.35	127.40	119.90
1	fn	122	PRO	C-N-CA	7.35	127.40	119.90
1	fs	56	LEU	N-CA-CB	7.35	120.67	110.01
1	0	58	THR	O-C-N	-7.35	113.62	122.22
1	i	70	LYS	CA-C-N	7.35	130.47	120.54
1	i	70	LYS	C-N-CA	7.35	130.47	120.54
1	o	33	SER	N-CA-C	7.35	120.79	110.20
1	V	179	GLN	O-C-N	-7.35	114.33	122.12
1	gY	138	LEU	CA-C-N	7.35	130.73	120.29
1	gY	138	LEU	C-N-CA	7.35	130.73	120.29
1	hF	143	ARG	CA-C-N	7.35	130.73	120.29
1	hF	143	ARG	C-N-CA	7.35	130.73	120.29
1	ik	201	ILE	N-CA-C	-7.35	105.24	111.56
1	j4	131	LYS	CA-C-O	-7.35	112.76	120.55
1	kq	150	ILE	CA-C-O	7.35	128.44	120.57
1	2d	170	LYS	CA-C-N	7.35	130.00	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2d	170	LYS	C-N-CA	7.35	130.00	120.44
1	2V	159	GLU	O-C-N	-7.35	117.00	121.71
1	39	7	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	4J	146	SER	N-CA-C	7.35	118.61	109.57
1	54	99	PRO	CA-C-N	7.35	132.48	120.94
1	54	99	PRO	C-N-CA	7.35	132.48	120.94
1	6n	76	GLU	CA-C-O	-7.35	113.10	120.82
1	6q	161	PHE	CA-CB-CG	-7.35	106.45	113.80
1	7g	204	ALA	CA-C-N	7.35	130.73	120.29
1	7g	204	ALA	C-N-CA	7.35	130.73	120.29
1	7n	23	TRP	O-C-N	-7.35	113.77	122.15
1	7t	11	VAL	O-C-N	-7.35	115.13	123.07
1	7B	98	GLU	CA-C-O	-7.35	113.06	120.63
1	7D	195	ASN	CA-C-O	-7.35	112.53	120.17
1	7G	12	HIS	CE1-NE2-CD2	-7.35	101.65	109.00
1	9c	229	ARG	CA-C-N	7.35	130.57	120.35
1	9c	229	ARG	C-N-CA	7.35	130.57	120.35
1	b1	97	ARG	O-C-N	-7.35	114.19	122.86
1	bd	9	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	bk	139	ASN	CA-CB-CG	-7.35	105.25	112.60
1	bN	191	VAL	N-CA-C	7.35	118.12	110.62
1	c3	167	ARG	NE-CZ-NH1	7.35	128.85	121.50
1	cr	57	ASN	N-CA-C	7.35	120.16	111.71
1	cL	92	GLU	N-CA-C	7.35	118.61	109.57
1	dR	195	ASN	O-C-N	-7.35	115.35	121.38
1	1r	144	MET	CA-C-O	7.35	128.57	120.63
1	fl	131	LYS	CA-C-N	7.35	130.73	120.29
1	fl	131	LYS	C-N-CA	7.35	130.73	120.29
1	W	195	ASN	OD1-CG-ND2	7.35	129.95	122.60
1	6	87	HIS	CA-C-O	7.35	129.07	120.69
1	gA	42	ALA	N-CA-C	7.35	120.16	111.71
1	gA	203	LYS	N-CA-C	7.35	119.29	111.28
1	hN	197	ASP	CA-CB-CG	-7.35	105.25	112.60
1	iq	21	ASN	CA-CB-CG	7.35	119.95	112.60
1	iU	229	ARG	NH1-CZ-NH2	-7.35	109.75	119.30
1	j8	184	TRP	N-CA-C	7.35	119.29	111.28
1	ja	12	HIS	ND1-CE1-NE2	7.35	115.75	108.40
1	23	33	SER	CA-C-O	-7.35	113.74	120.50
1	kN	221	VAL	N-CA-C	7.35	118.45	111.91
1	l5	195	ASN	N-CA-C	7.35	120.06	109.84
1	lm	140	LYS	CA-C-N	7.35	129.89	120.70
1	lm	140	LYS	C-N-CA	7.35	129.89	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lK	112	GLN	CA-C-N	7.35	130.00	120.44
1	lK	112	GLN	C-N-CA	7.35	130.00	120.44
1	2C	82	ARG	NE-CZ-NH1	7.35	128.85	121.50
1	2D	23	TRP	CA-C-O	7.35	128.21	120.42
1	2Q	90	PRO	CA-C-N	7.35	131.50	120.77
1	2Q	90	PRO	C-N-CA	7.35	131.50	120.77
1	3s	51	ASP	CA-C-N	7.35	130.44	120.44
1	3s	51	ASP	C-N-CA	7.35	130.44	120.44
1	43	112	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	53	176	GLN	OE1-CD-NE2	-7.35	115.25	122.60
1	5u	16	SER	CA-C-N	7.35	128.00	119.47
1	5u	16	SER	C-N-CA	7.35	128.00	119.47
1	5N	169	TYR	N-CA-C	7.35	120.16	111.71
1	69	62	HIS	CA-CB-CG	7.35	121.15	113.80
1	6Q	91	ILE	O-C-N	-7.35	114.66	122.67
1	7m	89	GLY	CA-C-N	7.35	127.35	119.78
1	7m	89	GLY	C-N-CA	7.35	127.35	119.78
1	7N	184	TRP	O-C-N	-7.35	114.33	122.12
1	7U	67	GLN	CA-C-N	7.35	130.13	120.28
1	7U	67	GLN	C-N-CA	7.35	130.13	120.28
1	9j	139	ASN	OD1-CG-ND2	-7.35	115.25	122.60
1	9V	53	ASN	CA-C-N	7.35	130.35	120.65
1	9V	53	ASN	C-N-CA	7.35	130.35	120.65
1	aa	144	MET	N-CA-C	7.35	119.08	111.14
1	ao	166	ASP	CA-CB-CG	-7.35	105.25	112.60
1	12	22	ALA	CA-C-N	7.35	130.46	120.54
1	12	22	ALA	C-N-CA	7.35	130.46	120.54
1	ay	16	SER	CA-C-O	-7.35	113.63	119.66
1	13	167	ARG	NE-CZ-NH2	-7.35	112.59	119.20
1	bg	37	ILE	N-CA-CB	7.35	115.13	110.50
1	bH	65	ALA	CA-C-N	7.35	129.99	120.44
1	bH	65	ALA	C-N-CA	7.35	129.99	120.44
1	bJ	62	HIS	CB-CG-CD2	-7.35	121.65	131.20
1	c2	189	LEU	CA-C-N	7.35	130.00	120.44
1	c2	189	LEU	C-N-CA	7.35	130.00	120.44
1	cf	71	GLU	CA-C-N	7.35	130.13	120.28
1	cf	71	GLU	C-N-CA	7.35	130.13	120.28
1	ch	36	VAL	CA-C-N	7.35	126.21	120.33
1	ch	36	VAL	C-N-CA	7.35	126.21	120.33
1	ct	188	THR	N-CA-C	7.35	122.42	113.38
1	cM	174	ALA	N-CA-C	7.35	119.29	111.28
1	cR	146	SER	CB-CA-C	-7.35	102.89	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	49	PRO	N-CA-CB	7.35	110.97	103.25
1	dm	173	ARG	CA-C-O	7.35	128.21	120.42
1	1n	5	ASN	N-CA-C	7.35	119.29	111.28
1	fh	184	TRP	N-CA-C	7.35	119.29	111.28
1	fH	127	GLY	CA-C-O	7.35	128.45	120.66
1	g5	197	ASP	CA-CB-CG	-7.35	105.25	112.60
1	gj	198	CYS	O-C-N	-7.35	114.33	122.12
1	gK	94	GLY	CA-C-N	7.35	133.29	120.87
1	gK	94	GLY	C-N-CA	7.35	133.29	120.87
1	ha	114	GLN	OE1-CD-NE2	7.35	129.95	122.60
1	hB	58	THR	N-CA-CB	7.35	121.67	110.28
1	iP	12	HIS	ND1-CE1-NE2	7.35	115.75	108.40
1	l0	226	HIS	CA-C-N	7.35	132.36	120.60
1	l0	226	HIS	C-N-CA	7.35	132.36	120.60
1	l1	71	GLU	N-CA-C	7.35	118.93	111.07
1	li	124	ILE	O-C-N	-7.35	115.18	121.57
1	lr	195	ASN	CA-C-N	7.35	129.02	119.84
1	lr	195	ASN	C-N-CA	7.35	129.02	119.84
1	ls	110	THR	CA-C-N	7.35	130.44	120.38
1	ls	110	THR	C-N-CA	7.35	130.44	120.38
1	lA	42	ALA	N-CA-C	7.35	119.29	111.28
1	3f	98	GLU	N-CA-CB	7.35	120.84	110.11
1	3Y	25	LYS	N-CA-C	7.35	118.93	111.07
1	4h	214	MET	CA-C-N	7.35	130.12	120.28
1	4h	214	MET	C-N-CA	7.35	130.12	120.28
1	4k	74	ASN	CA-C-N	7.35	129.99	120.44
1	4k	74	ASN	C-N-CA	7.35	129.99	120.44
1	6g	18	ARG	NE-CZ-NH1	7.35	128.85	121.50
1	7w	195	ASN	CA-CB-CG	7.35	119.95	112.60
1	8N	39	MET	CG-SD-CE	-7.35	84.73	100.90
1	9c	194	ALA	CA-C-N	7.35	130.64	120.65
1	9c	194	ALA	C-N-CA	7.35	130.64	120.65
1	9I	169	TYR	CA-C-N	7.35	130.12	120.28
1	9I	169	TYR	C-N-CA	7.35	130.12	120.28
1	ae	41	SER	N-CA-C	7.35	119.29	111.28
1	ai	140	LYS	N-CA-C	7.35	119.37	111.36
1	ai	163	ASP	CA-C-N	7.35	130.72	120.29
1	ai	163	ASP	C-N-CA	7.35	130.72	120.29
1	aj	119	THR	N-CA-CB	7.35	122.00	110.46
1	bd	215	MET	N-CA-C	7.35	120.22	111.33
1	bl	36	VAL	CA-C-N	7.35	124.87	120.24
1	bl	36	VAL	C-N-CA	7.35	124.87	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bO	25	LYS	N-CA-C	7.35	119.29	111.28
1	cb	91	ILE	CA-C-N	7.35	131.16	120.51
1	cb	91	ILE	C-N-CA	7.35	131.16	120.51
1	cM	10	MET	N-CA-C	7.35	121.16	110.28
1	dU	4	GLN	CA-C-O	7.35	131.02	120.51
1	ed	198	CYS	CA-C-O	7.35	128.42	119.97
1	ej	75	GLU	O-C-N	-7.35	114.50	122.07
1	em	117	TRP	N-CA-C	7.35	118.93	111.07
1	fp	23	TRP	CA-C-N	7.35	129.82	120.56
1	fp	23	TRP	C-N-CA	7.35	129.82	120.56
1	fT	137	GLY	CA-C-N	7.35	130.12	120.28
1	fT	137	GLY	C-N-CA	7.35	130.12	120.28
1	1A	190	LEU	N-CA-C	7.35	119.08	111.14
1	J	37	ILE	O-C-N	-7.35	114.85	120.07
1	6	203	LYS	CA-C-O	-7.35	112.76	120.55
1	1M	22	ALA	O-C-N	-7.35	114.45	122.09
1	lI	82	ARG	NH1-CZ-NH2	-7.35	109.75	119.30
1	2W	214	MET	N-CA-C	7.35	119.29	111.28
1	3Q	114	GLN	CA-C-O	7.35	128.21	120.42
1	5u	83	LEU	N-CA-C	7.35	118.93	111.07
1	6Q	150	ILE	O-C-N	-7.35	111.76	121.82
1	6Y	23	TRP	N-CA-CB	-7.35	99.32	110.12
1	7I	206	GLY	CA-C-N	7.35	129.02	119.84
1	7I	206	GLY	C-N-CA	7.35	129.02	119.84
1	8o	214	MET	N-CA-C	7.35	119.29	111.28
1	9S	217	ALA	N-CA-CB	7.35	120.92	109.83
1	cr	204	ALA	CA-C-N	7.35	130.72	120.29
1	cr	204	ALA	C-N-CA	7.35	130.72	120.29
1	ez	165	VAL	N-CA-C	7.35	118.11	110.62
1	1y	167	ARG	CA-C-N	7.35	130.35	120.65
1	1y	167	ARG	C-N-CA	7.35	130.35	120.65
1	s	130	TYR	N-CA-C	7.35	119.29	111.28
1	S	37	ILE	N-CA-CB	7.35	116.18	110.45
1	gd	166	ASP	CA-CB-CG	7.34	119.94	112.60
1	gP	84	HIS	CA-C-O	-7.34	113.60	119.99
1	gR	63	GLN	N-CA-C	7.34	119.36	111.36
1	h8	179	GLN	O-C-N	-7.34	114.45	122.09
1	hj	62	HIS	CA-C-N	7.34	130.44	120.38
1	hj	62	HIS	C-N-CA	7.34	130.44	120.38
1	hp	39	MET	N-CA-C	7.34	118.93	111.07
1	hR	185	MET	N-CA-C	7.34	119.28	111.28
1	i9	156	GLY	O-C-N	-7.34	114.43	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iF	181	VAL	N-CA-CB	-7.34	100.55	110.54
1	j0	184	TRP	CB-CG-CD2	-7.34	116.52	126.80
1	k5	191	VAL	CA-CB-CG2	7.34	122.89	110.40
1	24	52	LEU	CA-C-O	7.34	128.34	120.55
1	lB	199	LYS	N-CA-C	7.34	118.93	111.07
1	2c	57	ASN	CA-C-N	7.34	130.12	120.28
1	2c	57	ASN	C-N-CA	7.34	130.12	120.28
1	2H	187	GLU	N-CA-C	7.34	119.92	111.11
1	3v	209	ALA	N-CA-C	7.34	120.88	110.23
1	3I	5	ASN	O-C-N	-7.34	114.71	122.94
1	4f	143	ARG	NE-CZ-NH2	-7.34	112.59	119.20
1	57	53	ASN	CA-C-N	7.34	130.43	120.44
1	57	53	ASN	C-N-CA	7.34	130.43	120.44
1	59	174	ALA	N-CA-C	7.34	119.28	111.28
1	5a	40	PHE	CA-C-N	7.34	130.12	120.28
1	5a	40	PHE	C-N-CA	7.34	130.12	120.28
1	5G	130	TYR	CA-C-N	7.34	130.12	120.28
1	5G	130	TYR	C-N-CA	7.34	130.12	120.28
1	5I	134	ILE	N-CA-C	7.34	117.43	110.53
1	5L	129	ILE	N-CA-C	7.34	118.11	110.62
1	5V	181	VAL	O-C-N	-7.34	114.69	121.89
1	65	191	VAL	N-CA-C	7.34	118.14	110.72
1	6e	73	ILE	CA-C-N	7.34	130.12	120.28
1	6e	73	ILE	C-N-CA	7.34	130.12	120.28
1	7A	210	THR	CA-C-N	7.34	130.72	120.29
1	7A	210	THR	C-N-CA	7.34	130.72	120.29
1	7S	143	ARG	N-CA-C	7.34	119.29	111.28
1	7T	61	GLY	O-C-N	7.34	129.13	122.81
1	8k	28	GLU	O-C-N	-7.34	114.50	122.07
1	aJ	18	ARG	N-CA-C	7.34	119.92	111.11
1	aR	113	GLU	CA-C-N	7.34	129.99	120.44
1	aR	113	GLU	C-N-CA	7.34	129.99	120.44
1	b3	172	LEU	CA-C-O	-7.34	111.28	119.95
1	bg	19	THR	N-CA-C	7.34	119.28	111.28
1	bF	84	HIS	CE1-NE2-CD2	-7.34	101.66	109.00
1	cp	226	HIS	CE1-NE2-CD2	-7.34	101.66	109.00
1	cr	76	GLU	N-CA-CB	7.34	120.66	110.01
1	cs	67	GLN	CG-CD-OE1	-7.34	106.11	120.80
1	cF	195	ASN	N-CA-CB	7.34	121.51	109.98
1	de	219	GLN	N-CA-C	7.34	120.22	111.33
1	do	214	MET	N-CA-C	7.34	119.37	111.36
1	ds	115	ILE	CA-C-N	7.34	128.09	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ds	115	ILE	C-N-CA	7.34	128.09	119.94
1	dz	133	TRP	CB-CG-CD2	-7.34	116.52	126.80
1	dM	49	PRO	N-CA-CB	7.34	110.96	103.25
1	e6	59	VAL	O-C-N	-7.34	114.84	122.63
1	em	74	ASN	N-CA-C	-7.34	103.21	111.14
1	ew	86	VAL	CA-C-N	7.34	132.55	122.19
1	ew	86	VAL	C-N-CA	7.34	132.55	122.19
1	fd	164	TYR	CA-C-O	7.34	128.42	119.31
1	fk	192	GLN	N-CA-C	7.34	119.28	111.28
1	fn	109	SER	O-C-N	-7.34	114.65	123.10
1	f	190	LEU	N-CA-C	7.34	120.22	111.33
1	z	206	GLY	N-CA-C	7.34	120.81	112.00
1	C	150	ILE	O-C-N	-7.34	114.75	121.87
1	gY	132	ARG	NE-CZ-NH2	7.34	125.81	119.20
1	24	207	PRO	N-CA-CB	7.34	110.29	103.46
1	l8	33	SER	CA-C-N	7.34	127.02	119.82
1	l8	33	SER	C-N-CA	7.34	127.02	119.82
1	l8	216	THR	CA-C-N	7.34	131.84	120.75
1	l8	216	THR	C-N-CA	7.34	131.84	120.75
1	lf	88	ALA	N-CA-CB	7.34	121.64	109.60
1	lG	121	ASN	CA-CB-CG	-7.34	105.26	112.60
1	3a	122	PRO	N-CD-CG	-7.34	94.99	103.80
1	3m	14	ALA	CA-C-N	7.34	130.62	120.49
1	3m	14	ALA	C-N-CA	7.34	130.62	120.49
1	5u	124	ILE	CA-C-O	7.34	124.37	119.38
1	67	193	ASN	CA-CB-CG	-7.34	105.26	112.60
1	7n	62	HIS	ND1-CG-CD2	7.34	113.44	106.10
1	by	38	PRO	CA-C-N	7.34	129.99	120.44
1	by	38	PRO	C-N-CA	7.34	129.99	120.44
1	bK	41	SER	CA-C-N	7.34	129.99	120.44
1	bK	41	SER	C-N-CA	7.34	129.99	120.44
1	cB	67	GLN	OE1-CD-NE2	-7.34	115.26	122.60
1	cF	83	LEU	O-C-N	-7.34	114.51	122.07
1	dj	15	ILE	O-C-N	-7.34	115.18	122.67
1	dR	226	HIS	ND1-CE1-NE2	7.34	115.74	108.40
1	et	221	VAL	N-CA-C	7.34	118.07	110.36
1	S	202	LEU	CA-C-N	7.34	130.12	120.28
1	S	202	LEU	C-N-CA	7.34	130.12	120.28
1	h3	218	CYS	N-CA-C	7.34	121.64	112.24
1	hk	89	GLY	O-C-N	-7.34	114.43	121.77
1	hp	98	GLU	CA-C-N	7.34	127.32	119.76
1	hp	98	GLU	C-N-CA	7.34	127.32	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hD	94	GLY	O-C-N	-7.34	114.92	122.70
1	hL	186	THR	CA-C-O	-7.34	113.04	120.90
1	iG	32	PHE	CA-CB-CG	-7.34	106.46	113.80
1	jk	140	LYS	CA-C-N	7.34	129.81	120.56
1	jk	140	LYS	C-N-CA	7.34	129.81	120.56
1	km	37	ILE	N-CA-CB	-7.34	105.87	110.50
1	2X	154	ARG	NE-CZ-NH1	7.34	128.84	121.50
1	3p	130	TYR	O-C-N	-7.34	114.34	122.12
1	3Y	147	PRO	N-CA-C	-7.34	105.28	114.68
1	41	217	ALA	N-CA-C	7.34	120.34	110.35
1	49	57	ASN	CA-C-N	7.34	130.12	120.28
1	49	57	ASN	C-N-CA	7.34	130.12	120.28
1	51	179	GLN	O-C-N	-7.34	114.34	122.12
1	7w	138	LEU	O-C-N	-7.34	113.63	122.22
1	7I	25	LYS	N-CA-C	7.34	118.93	111.07
1	8A	51	ASP	CA-C-O	-7.34	113.11	120.82
1	8Y	133	TRP	O-C-N	-7.34	114.51	122.07
1	a5	22	ALA	CA-C-N	7.34	130.12	120.28
1	a5	22	ALA	C-N-CA	7.34	130.12	120.28
1	aD	172	LEU	CA-C-N	7.34	132.35	120.60
1	aD	172	LEU	C-N-CA	7.34	132.35	120.60
1	14	80	TRP	O-C-N	-7.34	114.16	122.09
1	aY	39	MET	O-C-N	-7.34	114.51	122.07
1	cJ	98	GLU	N-CA-C	7.34	118.90	109.65
1	cT	10	MET	N-CA-C	7.34	120.59	110.24
1	cY	129	ILE	CB-CA-C	7.34	121.37	111.97
1	eR	208	ALA	N-CA-C	-7.34	104.06	113.16
1	f4	181	VAL	N-CA-C	7.34	117.47	110.42
1	fM	41	SER	N-CA-C	7.34	121.50	112.54
1	6	143	ARG	NE-CZ-NH1	7.34	128.84	121.50
1	g9	183	ASN	OD1-CG-ND2	-7.34	115.26	122.60
1	gm	140	LYS	N-CA-C	7.34	119.28	111.28
1	gP	53	ASN	CA-CB-CG	-7.34	105.26	112.60
1	hd	83	LEU	N-CA-C	7.34	119.28	111.28
1	hy	41	SER	CA-C-N	7.34	131.47	120.31
1	hy	41	SER	C-N-CA	7.34	131.47	120.31
1	hN	215	MET	N-CA-C	7.34	120.21	111.33
1	l2	95	GLN	CA-C-N	7.34	133.07	122.35
1	l2	95	GLN	C-N-CA	7.34	133.07	122.35
1	l4	136	LEU	CA-C-N	7.34	127.94	119.94
1	l4	136	LEU	C-N-CA	7.34	127.94	119.94
1	l8	187	GLU	CA-C-N	7.34	130.71	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	187	GLU	C-N-CA	7.34	130.71	120.29
1	lH	202	LEU	O-C-N	-7.34	114.10	122.03
1	2C	21	ASN	CA-C-N	7.34	130.12	120.28
1	2C	21	ASN	C-N-CA	7.34	130.12	120.28
1	3g	154	ARG	N-CA-CB	7.34	122.59	110.85
1	3I	179	GLN	CA-C-N	7.34	129.98	120.44
1	3I	179	GLN	C-N-CA	7.34	129.98	120.44
1	4G	37	ILE	O-C-N	-7.34	115.72	120.42
1	4M	84	HIS	CA-C-O	-7.34	113.19	119.36
1	4U	119	THR	CA-C-N	7.34	135.56	121.54
1	4U	119	THR	C-N-CA	7.34	135.56	121.54
1	5u	50	GLN	N-CA-C	7.34	119.28	111.28
1	5D	170	LYS	N-CA-C	7.34	119.28	111.28
1	5J	126	VAL	N-CA-C	7.34	118.11	110.62
1	6m	12	HIS	CE1-NE2-CD2	-7.34	101.66	109.00
1	6E	193	ASN	CB-CG-OD1	7.34	135.48	120.80
1	6N	214	MET	N-CA-CB	-7.34	99.33	110.12
1	6X	150	ILE	CA-C-N	7.34	134.64	120.99
1	6X	150	ILE	C-N-CA	7.34	134.64	120.99
1	6Y	70	LYS	CA-C-O	7.34	128.33	120.55
1	70	195	ASN	CA-C-O	-7.34	112.74	120.23
1	8n	117	TRP	CA-C-N	7.34	130.12	120.28
1	8n	117	TRP	C-N-CA	7.34	130.12	120.28
1	90	124	ILE	CA-C-O	7.34	126.67	119.62
1	9c	191	VAL	CA-C-N	7.34	130.71	120.29
1	9c	191	VAL	C-N-CA	7.34	130.71	120.29
1	9U	195	ASN	CA-CB-CG	7.34	119.94	112.60
1	a4	63	GLN	CG-CD-NE2	7.34	127.41	116.40
1	a8	211	LEU	O-C-N	-7.34	114.34	122.12
1	aA	126	VAL	O-C-N	-7.34	114.75	121.87
1	aP	31	ALA	N-CA-C	7.34	121.52	111.39
1	bb	199	LYS	CA-C-N	7.34	129.98	120.44
1	bb	199	LYS	C-N-CA	7.34	129.98	120.44
1	be	183	ASN	N-CA-C	7.34	120.21	111.33
1	bf	23	TRP	N-CA-C	7.34	118.92	111.07
1	bg	62	HIS	ND1-CE1-NE2	7.34	115.74	108.40
1	br	32	PHE	CA-C-O	7.34	128.39	120.32
1	bz	68	MET	CA-C-O	7.34	128.33	120.55
1	bA	30	LYS	N-CA-C	7.34	123.26	113.72
1	bH	229	ARG	NE-CZ-NH2	-7.34	112.59	119.20
1	cI	88	ALA	N-CA-C	7.34	119.07	111.14
1	cN	48	THR	CA-C-N	7.34	129.02	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cN	48	THR	C-N-CA	7.34	129.02	119.84
1	cQ	142	VAL	N-CA-CB	-7.34	101.96	110.55
1	1h	178	SER	N-CA-C	7.34	120.33	110.35
1	dr	201	ILE	N-CA-C	7.34	117.47	110.42
1	e0	123	PRO	N-CA-CB	7.34	109.88	103.27
1	1p	211	LEU	N-CA-C	7.34	120.15	111.71
1	ee	132	ARG	N-CA-CB	-7.34	99.33	110.12
1	f5	154	ARG	NH1-CZ-NH2	-7.34	109.76	119.30
1	fg	146	SER	O-C-N	-7.34	114.77	121.30
1	iB	54	THR	CA-C-N	7.34	130.45	120.54
1	iB	54	THR	C-N-CA	7.34	130.45	120.54
1	jF	145	TYR	O-C-N	-7.34	113.32	122.35
1	jU	3	VAL	N-CA-CB	7.34	119.34	110.31
1	kZ	152	ASP	N-CA-C	-7.34	103.47	113.30
1	lt	57	ASN	N-CA-C	7.34	120.15	111.71
1	2q	148	THR	O-C-N	-7.34	115.57	123.42
1	2A	187	GLU	N-CA-C	7.34	119.07	111.14
1	88	138	LEU	CA-C-N	7.34	129.98	120.44
1	88	138	LEU	C-N-CA	7.34	129.98	120.44
1	9a	199	LYS	CA-C-O	7.34	128.53	120.82
1	10	195	ASN	CA-C-N	7.34	129.01	119.84
1	10	195	ASN	C-N-CA	7.34	129.01	119.84
1	bj	183	ASN	CA-CB-CG	-7.34	105.26	112.60
1	cx	184	TRP	CB-CG-CD2	-7.34	116.53	126.80
1	dg	14	ALA	CA-C-N	7.34	131.48	120.77
1	dg	14	ALA	C-N-CA	7.34	131.48	120.77
1	ee	171	THR	CA-C-O	7.34	128.53	120.82
1	v	176	GLN	O-C-N	-7.34	112.83	122.59
1	T	188	THR	CA-C-N	7.34	129.98	120.44
1	T	188	THR	C-N-CA	7.34	129.98	120.44
1	V	37	ILE	O-C-N	-7.34	112.73	121.10
1	8	130	TYR	CA-C-O	7.34	128.52	120.82
1	g9	67	GLN	O-C-N	-7.34	113.25	122.27
1	g9	211	LEU	CA-C-N	7.34	130.71	120.29
1	g9	211	LEU	C-N-CA	7.34	130.71	120.29
1	gn	10	MET	CA-C-O	-7.34	113.77	121.55
1	gr	82	ARG	NE-CZ-NH1	7.34	128.84	121.50
1	gt	146	SER	O-C-N	-7.34	114.77	121.30
1	h0	187	GLU	N-CA-C	7.34	119.28	111.28
1	hA	66	MET	N-CA-C	7.34	120.33	111.82
1	iB	210	THR	CB-CA-C	7.34	121.51	109.70
1	21	75	GLU	O-C-N	-7.34	114.17	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l7	5	ASN	OD1-CG-ND2	-7.34	115.26	122.60
1	2M	68	MET	CA-C-O	7.34	128.52	120.82
1	30	68	MET	N-CA-C	7.34	119.28	111.28
1	3Y	63	GLN	N-CA-C	7.34	118.92	111.07
1	46	91	ILE	N-CA-C	7.34	119.27	109.37
1	4h	216	THR	CA-CB-OG1	7.34	120.61	109.60
1	4m	164	TYR	CA-C-N	7.34	130.51	120.46
1	4m	164	TYR	C-N-CA	7.34	130.51	120.46
1	4F	47	ALA	N-CA-C	7.34	120.87	110.23
1	67	44	SER	CB-CA-C	-7.34	99.14	111.02
1	6p	73	ILE	CA-C-N	7.34	130.11	120.28
1	6p	73	ILE	C-N-CA	7.34	130.11	120.28
1	6K	193	ASN	OD1-CG-ND2	-7.34	115.26	122.60
1	7m	121	ASN	CA-C-O	-7.34	113.87	119.59
1	7E	23	TRP	N-CA-C	7.34	119.91	111.11
1	85	91	ILE	N-CA-C	7.34	119.28	109.37
1	9B	119	THR	CA-C-N	7.34	131.83	120.75
1	9B	119	THR	C-N-CA	7.34	131.83	120.75
1	9H	81	ASP	N-CA-C	7.34	119.36	111.36
1	bk	66	MET	N-CA-C	7.34	118.92	111.07
1	bp	188	THR	CA-C-N	7.34	130.43	120.38
1	bp	188	THR	C-N-CA	7.34	130.43	120.38
1	bt	147	PRO	N-CA-CB	7.34	110.95	103.25
1	by	125	PRO	CA-C-N	7.34	130.87	120.53
1	by	125	PRO	C-N-CA	7.34	130.87	120.53
1	bD	195	ASN	O-C-N	-7.34	113.21	121.43
1	bJ	111	LEU	CA-C-N	7.34	130.44	120.54
1	bJ	111	LEU	C-N-CA	7.34	130.44	120.54
1	1a	53	ASN	CA-CB-CG	-7.34	105.26	112.60
1	cJ	146	SER	CA-C-N	7.34	126.85	118.85
1	cJ	146	SER	C-N-CA	7.34	126.85	118.85
1	e1	214	MET	CA-C-N	7.34	130.11	120.28
1	e1	214	MET	C-N-CA	7.34	130.11	120.28
1	e9	89	GLY	O-C-N	-7.34	114.43	121.77
1	eg	14	ALA	N-CA-C	7.34	120.33	110.35
1	ex	77	ALA	N-CA-C	7.34	118.92	111.07
1	fe	55	MET	CG-SD-CE	-7.34	84.76	100.90
1	fN	74	ASN	CA-CB-CG	-7.34	105.26	112.60
1	fW	2	ILE	O-C-N	-7.34	115.26	123.18
1	Q	13	GLN	OE1-CD-NE2	-7.34	115.26	122.60
1	9	7	GLN	N-CA-C	7.34	120.38	109.59
1	1E	80	TRP	CB-CG-CD2	-7.33	116.53	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gR	73	ILE	N-CA-C	7.33	117.46	110.42
1	hh	12	HIS	CA-CB-CG	7.33	121.14	113.80
1	hp	48	THR	CA-C-O	-7.33	110.71	121.27
1	jW	25	LYS	CA-C-N	7.33	130.51	120.46
1	jW	25	LYS	C-N-CA	7.33	130.51	120.46
1	ks	198	CYS	CA-C-N	7.33	130.11	120.28
1	ks	198	CYS	C-N-CA	7.33	130.11	120.28
1	lr	42	ALA	N-CA-C	7.33	119.91	111.11
1	lL	161	PHE	CA-C-N	7.33	130.11	120.28
1	lL	161	PHE	C-N-CA	7.33	130.11	120.28
1	2z	70	LYS	CA-C-N	7.33	130.11	120.28
1	2z	70	LYS	C-N-CA	7.33	130.11	120.28
1	36	59	VAL	N-CA-C	-7.33	103.31	110.72
1	3c	170	LYS	CA-C-N	7.33	130.71	120.29
1	3c	170	LYS	C-N-CA	7.33	130.71	120.29
1	6K	146	SER	N-CA-C	7.33	119.32	108.76
1	77	123	PRO	CB-CA-C	7.33	120.88	111.56
1	7P	119	THR	O-C-N	7.33	131.06	122.19
1	8k	96	MET	N-CA-C	7.33	119.78	110.24
1	8N	131	LYS	O-C-N	-7.33	114.34	122.12
1	ba	216	THR	CA-C-N	7.33	132.46	120.94
1	ba	216	THR	C-N-CA	7.33	132.46	120.94
1	dg	195	ASN	CA-CB-CG	7.33	119.94	112.60
1	dT	139	ASN	N-CA-CB	-7.33	99.63	110.49
1	e9	173	ARG	N-CA-C	7.33	123.47	111.37
1	gs	5	ASN	CB-CG-ND2	7.33	127.40	116.40
1	hZ	56	LEU	N-CA-CB	7.33	120.70	110.07
1	i5	201	ILE	N-CA-C	7.33	118.10	110.62
1	1P	106	GLY	CA-C-N	7.33	130.43	120.38
1	1P	106	GLY	C-N-CA	7.33	130.43	120.38
1	je	149	SER	N-CA-C	7.33	120.86	110.23
1	jU	186	THR	N-CA-C	7.33	121.81	113.01
1	kb	189	LEU	N-CA-C	7.33	119.27	111.28
1	kx	216	THR	N-CA-C	-7.33	104.33	113.28
1	kN	136	LEU	O-C-N	-7.33	114.46	122.09
1	l3	152	ASP	CA-C-N	7.33	132.18	121.18
1	l3	152	ASP	C-N-CA	7.33	132.18	121.18
1	3t	133	TRP	CA-C-N	7.33	129.80	120.56
1	3t	133	TRP	C-N-CA	7.33	129.80	120.56
1	3N	212	GLU	N-CA-C	7.33	120.20	111.33
1	4m	60	GLY	N-CA-C	7.33	124.26	111.50
1	4r	50	GLN	O-C-N	-7.33	114.46	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	228	ALA	N-CA-C	7.33	119.77	110.24
1	5M	173	ARG	NE-CZ-NH1	7.33	128.83	121.50
1	6e	161	PHE	CA-C-N	7.33	130.98	120.79
1	6e	161	PHE	C-N-CA	7.33	130.98	120.79
1	6L	134	ILE	CA-C-N	7.33	130.06	120.60
1	6L	134	ILE	C-N-CA	7.33	130.06	120.60
1	6Q	174	ALA	N-CA-C	7.33	118.92	111.07
1	6T	101	GLY	O-C-N	-7.33	115.14	122.18
1	7d	161	PHE	CA-C-O	7.33	128.32	120.55
1	7o	159	GLU	CA-C-O	-7.33	112.91	120.02
1	88	115	ILE	CA-C-N	7.33	128.08	119.94
1	88	115	ILE	C-N-CA	7.33	128.08	119.94
1	8I	114	GLN	N-CA-C	7.33	119.91	111.11
1	8M	215	MET	N-CA-C	7.33	120.14	111.71
1	94	185	MET	N-CA-C	7.33	118.92	111.07
1	9g	114	GLN	N-CA-C	7.33	118.92	111.07
1	an	198	CYS	CA-C-N	7.33	130.84	120.28
1	an	198	CYS	C-N-CA	7.33	130.84	120.28
1	aX	203	LYS	N-CA-C	7.33	120.14	111.71
1	b3	92	GLU	CA-C-N	7.33	127.31	119.76
1	b3	92	GLU	C-N-CA	7.33	127.31	119.76
1	bh	136	LEU	CA-C-N	7.33	128.08	119.94
1	bh	136	LEU	C-N-CA	7.33	128.08	119.94
1	ci	158	LYS	CA-C-O	7.33	127.83	119.18
1	cA	78	ALA	N-CA-C	7.33	118.92	111.07
1	d8	156	GLY	CA-C-N	7.33	127.68	119.32
1	d8	156	GLY	C-N-CA	7.33	127.68	119.32
1	dB	62	HIS	ND1-CE1-NE2	7.33	115.73	108.40
1	dO	11	VAL	CA-CB-CG1	7.33	122.87	110.40
1	dU	110	THR	N-CA-C	7.33	120.21	110.53
1	dY	136	LEU	CA-C-N	7.33	127.93	119.94
1	dY	136	LEU	C-N-CA	7.33	127.93	119.94
1	ga	78	ALA	CA-C-N	7.33	130.44	120.54
1	ga	78	ALA	C-N-CA	7.33	130.44	120.54
1	gB	18	ARG	CA-C-N	7.33	129.97	120.44
1	gB	18	ARG	C-N-CA	7.33	129.97	120.44
1	hb	6	LEU	N-CA-C	7.33	121.51	111.54
1	jg	204	ALA	CA-C-N	7.33	130.10	120.28
1	jg	204	ALA	C-N-CA	7.33	130.10	120.28
1	jz	82	ARG	N-CA-C	7.33	118.92	111.07
1	jY	168	PHE	CB-CA-C	7.33	122.25	110.96
1	kg	226	HIS	N-CA-C	7.33	121.27	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kr	167	ARG	CA-C-N	7.33	130.41	120.44
1	kr	167	ARG	C-N-CA	7.33	130.41	120.44
1	kx	75	GLU	CB-CA-C	-7.33	99.37	110.88
1	kK	139	ASN	CA-CB-CG	-7.33	105.27	112.60
1	l1	87	HIS	CB-CG-CD2	-7.33	121.67	131.20
1	l7	146	SER	CA-C-N	7.33	129.01	119.84
1	l7	146	SER	C-N-CA	7.33	129.01	119.84
1	2n	15	ILE	O-C-N	-7.33	114.86	122.63
1	2w	65	ALA	N-CA-C	7.33	119.35	111.36
1	3r	110	THR	O-C-N	-7.33	113.79	122.81
1	3t	100	ARG	CA-C-N	7.33	129.53	120.22
1	3t	100	ARG	C-N-CA	7.33	129.53	120.22
1	3B	87	HIS	CE1-NE2-CD2	-7.33	101.67	109.00
1	4b	69	LEU	N-CA-C	7.33	120.20	111.33
1	4J	171	THR	O-C-N	-7.33	112.51	122.33
1	5O	35	GLU	CA-C-N	7.33	130.50	120.46
1	5O	35	GLU	C-N-CA	7.33	130.50	120.46
1	6n	128	GLU	CA-C-N	7.33	130.50	120.46
1	6n	128	GLU	C-N-CA	7.33	130.50	120.46
1	72	74	ASN	OD1-CG-ND2	-7.33	115.27	122.60
1	7c	138	LEU	CA-C-O	7.33	128.32	120.55
1	7o	74	ASN	CA-C-N	7.33	129.97	120.44
1	7o	74	ASN	C-N-CA	7.33	129.97	120.44
1	7B	106	GLY	O-C-N	-7.33	113.40	122.34
1	8b	75	GLU	N-CA-C	7.33	118.92	111.07
1	8R	181	VAL	CB-CA-C	-7.33	102.58	111.97
1	9i	103	ASP	CA-C-N	7.33	130.83	120.42
1	9i	103	ASP	C-N-CA	7.33	130.83	120.42
1	9i	195	ASN	CB-CA-C	7.33	120.11	109.11
1	9M	129	ILE	N-CA-CB	7.33	119.63	110.47
1	aV	215	MET	CG-SD-CE	-7.33	84.77	100.90
1	aZ	123	PRO	N-CA-C	7.33	122.73	111.15
1	by	152	ASP	CA-C-O	7.33	127.93	119.35
1	bG	121	ASN	CA-CB-CG	-7.33	105.27	112.60
1	c8	159	GLU	CA-C-N	7.33	127.31	119.76
1	c8	159	GLU	C-N-CA	7.33	127.31	119.76
1	c9	50	GLN	OE1-CD-NE2	-7.33	115.27	122.60
1	co	138	LEU	CA-C-O	7.33	128.75	120.90
1	cs	112	GLN	CA-C-N	7.33	129.97	120.44
1	cs	112	GLN	C-N-CA	7.33	129.97	120.44
1	cO	171	THR	CA-C-N	7.33	131.45	120.31
1	cO	171	THR	C-N-CA	7.33	131.45	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cW	194	ALA	N-CA-C	7.33	120.21	110.53
1	di	162	ARG	NE-CZ-NH1	7.33	128.83	121.50
1	1l	130	TYR	N-CA-C	7.33	119.06	111.14
1	dA	53	ASN	O-C-N	-7.33	114.35	122.12
1	1m	179	GLN	N-CA-C	7.33	120.20	111.33
1	e0	177	ALA	N-CA-C	7.33	120.32	110.35
1	eu	133	TRP	CA-C-N	7.33	130.50	120.46
1	eu	133	TRP	C-N-CA	7.33	130.50	120.46
1	fa	150	ILE	CA-C-N	7.33	131.45	120.31
1	fa	150	ILE	C-N-CA	7.33	131.45	120.31
1	fm	51	ASP	N-CA-C	7.33	119.27	111.28
1	fL	15	ILE	O-C-N	-7.33	114.86	122.63
1	g2	85	PRO	CA-C-N	-7.33	113.54	123.14
1	g2	85	PRO	C-N-CA	-7.33	113.54	123.14
1	7	23	TRP	O-C-N	-7.33	114.52	122.07
1	1C	155	GLN	OE1-CD-NE2	-7.33	115.27	122.60
1	h5	84	HIS	ND1-CE1-NE2	7.33	115.73	108.40
1	hn	10	MET	N-CA-CB	-7.33	98.76	109.83
1	hp	133	TRP	CB-CG-CD2	7.33	137.06	126.80
1	1P	162	ARG	N-CA-C	7.33	120.20	111.33
1	1W	100	ARG	O-C-N	-7.33	114.75	123.03
1	jI	185	MET	CA-C-N	7.33	130.10	120.28
1	jI	185	MET	C-N-CA	7.33	130.10	120.28
1	kI	110	THR	N-CA-CB	7.33	122.58	110.63
1	35	114	GLN	N-CA-C	7.33	118.91	111.07
1	3s	66	MET	CA-C-O	7.33	128.52	120.82
1	3F	202	LEU	CA-C-N	7.33	130.42	120.38
1	3F	202	LEU	C-N-CA	7.33	130.42	120.38
1	4j	30	LYS	CA-C-N	7.33	132.80	122.46
1	4j	30	LYS	C-N-CA	7.33	132.80	122.46
1	4Y	120	HIS	CA-CB-CG	7.33	121.13	113.80
1	55	160	PRO	N-CA-C	7.33	122.73	111.15
1	71	144	MET	CA-C-O	-7.33	113.12	120.82
1	87	18	ARG	CA-C-N	7.33	130.98	120.79
1	87	18	ARG	C-N-CA	7.33	130.98	120.79
1	ad	48	THR	CA-C-O	-7.33	113.09	120.64
1	aJ	48	THR	O-C-N	-7.33	113.83	121.60
1	b8	50	GLN	OE1-CD-NE2	-7.33	115.27	122.60
1	17	156	GLY	CA-C-N	7.33	126.96	119.19
1	17	156	GLY	C-N-CA	7.33	126.96	119.19
1	bo	209	ALA	N-CA-C	7.33	120.83	110.50
1	cr	91	ILE	CA-C-N	7.33	131.14	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cr	91	ILE	C-N-CA	7.33	131.14	120.51
1	cG	141	ILE	N-CA-C	7.33	117.46	110.42
1	dk	215	MET	N-CA-C	7.33	120.14	111.71
1	el	21	ASN	CA-CB-CG	-7.33	105.27	112.60
1	eH	188	THR	O-C-N	-7.33	115.41	120.83
1	gj	54	THR	CA-C-N	7.33	129.97	120.44
1	gj	54	THR	C-N-CA	7.33	129.97	120.44
1	1D	24	VAL	N-CA-C	7.33	118.06	110.36
1	1D	34	PRO	CA-C-N	7.33	130.42	120.38
1	1D	34	PRO	C-N-CA	7.33	130.42	120.38
1	h1	168	PHE	CA-C-N	7.33	131.45	120.31
1	h1	168	PHE	C-N-CA	7.33	131.45	120.31
1	1J	209	ALA	O-C-N	-7.33	115.05	123.33
1	hD	159	GLU	N-CA-C	7.33	120.03	109.84
1	iL	199	LYS	O-C-N	-7.33	113.26	122.27
1	jR	37	ILE	N-CA-CB	-7.33	105.88	110.50
1	k3	36	VAL	O-C-N	-7.33	114.76	121.87
1	ke	12	HIS	ND1-CE1-NE2	7.33	115.73	108.40
1	lq	154	ARG	NH1-CZ-NH2	-7.33	109.77	119.30
1	lD	70	LYS	CA-C-N	7.33	130.83	120.28
1	lD	70	LYS	C-N-CA	7.33	130.83	120.28
1	30	12	HIS	CA-C-N	7.33	133.33	123.00
1	30	12	HIS	C-N-CA	7.33	133.33	123.00
1	38	11	VAL	CA-C-N	7.33	131.12	120.71
1	38	11	VAL	C-N-CA	7.33	131.12	120.71
1	3n	120	HIS	CB-CG-ND1	7.33	133.69	122.70
1	3R	219	GLN	N-CA-C	-7.33	103.37	111.36
1	4K	87	HIS	CE1-NE2-CD2	-7.33	101.67	109.00
1	59	139	ASN	N-CA-CB	-7.33	99.38	110.01
1	6l	177	ALA	CA-C-N	7.33	132.45	120.94
1	6l	177	ALA	C-N-CA	7.33	132.45	120.94
1	9i	2	ILE	O-C-N	-7.33	115.36	122.98
1	9N	130	TYR	CA-C-O	7.33	128.19	120.42
1	9Y	184	TRP	CA-C-N	7.33	130.69	120.29
1	9Y	184	TRP	C-N-CA	7.33	130.69	120.29
1	a4	48	THR	CA-C-O	-7.33	112.97	120.96
1	ai	225	GLY	CA-C-O	7.33	128.62	122.24
1	b2	18	ARG	NE-CZ-NH2	7.33	125.80	119.20
1	bv	76	GLU	CB-CG-CD	7.33	125.06	112.60
1	1c	134	ILE	N-CA-C	7.33	118.10	110.62
1	cs	195	ASN	CA-CB-CG	7.33	119.93	112.60
1	dU	13	GLN	CA-C-N	7.33	131.28	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dU	13	GLN	C-N-CA	7.33	131.28	120.87
1	ex	40	PHE	CA-C-N	7.33	129.97	120.44
1	ex	40	PHE	C-N-CA	7.33	129.97	120.44
1	eH	158	LYS	CA-C-N	7.33	130.49	120.67
1	eH	158	LYS	C-N-CA	7.33	130.49	120.67
1	fl	13	GLN	OE1-CD-NE2	-7.33	115.27	122.60
1	fp	25	LYS	CA-C-N	7.33	129.79	120.56
1	fp	25	LYS	C-N-CA	7.33	129.79	120.56
1	fp	86	VAL	N-CA-C	7.33	118.90	109.30
1	fI	178	SER	N-CA-C	7.33	120.03	110.43
1	2	174	ALA	N-CA-CB	-7.33	99.31	110.16
1	E	87	HIS	CE1-NE2-CD2	-7.33	101.67	109.00
1	hp	206	GLY	CA-C-N	7.33	129.00	119.84
1	hp	206	GLY	C-N-CA	7.33	129.00	119.84
1	hD	183	ASN	CA-CB-CG	-7.33	105.27	112.60
1	iy	205	LEU	CA-C-N	7.33	133.37	121.87
1	iy	205	LEU	C-N-CA	7.33	133.37	121.87
1	j4	195	ASN	CA-CB-CG	7.33	119.93	112.60
1	jl	57	ASN	CA-C-N	7.33	130.10	120.28
1	jl	57	ASN	C-N-CA	7.33	130.10	120.28
1	3z	5	ASN	CA-CB-CG	7.33	119.93	112.60
1	3L	68	MET	CA-C-N	7.33	129.97	120.44
1	3L	68	MET	C-N-CA	7.33	129.97	120.44
1	8D	36	VAL	CB-CA-C	7.33	121.35	111.97
1	91	51	ASP	CA-CB-CG	-7.33	105.27	112.60
1	9r	59	VAL	N-CA-C	7.33	118.46	109.30
1	9T	212	GLU	N-CA-CB	7.33	120.89	110.12
1	bo	100	ARG	O-C-N	-7.33	113.64	122.65
1	dx	152	ASP	N-CA-C	7.33	120.14	111.71
1	dH	148	THR	O-C-N	-7.33	115.57	123.26
1	dV	93	PRO	N-CA-CB	-7.33	96.91	103.36
1	f0	134	ILE	N-CA-C	7.33	118.09	110.62
1	fc	32	PHE	CA-CB-CG	-7.33	106.47	113.80
1	fh	84	HIS	CA-C-N	7.33	127.33	119.78
1	fh	84	HIS	C-N-CA	7.33	127.33	119.78
1	fi	185	MET	CA-C-N	7.33	129.97	120.44
1	fi	185	MET	C-N-CA	7.33	129.97	120.44
1	a	82	ARG	NE-CZ-NH1	7.33	128.83	121.50
1	go	202	LEU	N-CA-C	7.33	119.26	111.28
1	gH	102	SER	N-CA-C	7.33	120.13	111.71
1	ht	67	GLN	N-CA-C	7.33	119.90	111.11
1	il	183	ASN	CA-C-N	7.33	130.10	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	183	ASN	C-N-CA	7.33	130.10	120.28
1	im	84	HIS	CA-C-N	7.33	127.37	119.90
1	im	84	HIS	C-N-CA	7.33	127.37	119.90
1	1R	161	PHE	O-C-N	-7.33	113.33	122.20
1	iO	214	MET	CA-C-O	7.33	128.31	120.55
1	iZ	83	LEU	N-CA-C	7.33	119.26	111.28
1	j6	140	LYS	N-CA-C	7.33	119.27	111.28
1	jm	27	VAL	O-C-N	-7.33	114.76	121.87
1	k9	217	ALA	N-CA-C	7.33	121.12	110.28
1	kx	5	ASN	CA-C-O	7.33	128.38	120.10
1	kB	64	ALA	CA-C-N	7.33	130.69	120.29
1	kB	64	ALA	C-N-CA	7.33	130.69	120.29
1	kD	201	ILE	N-CA-CB	7.33	121.57	110.58
1	kX	125	PRO	N-CA-CB	7.33	107.38	102.25
1	ll	170	LYS	CA-C-N	7.33	130.69	120.29
1	ll	170	LYS	C-N-CA	7.33	130.69	120.29
1	2I	185	MET	N-CA-C	7.33	118.91	111.07
1	2J	41	SER	CA-C-N	7.33	129.96	120.44
1	2J	41	SER	C-N-CA	7.33	129.96	120.44
1	2N	91	ILE	N-CA-C	7.33	118.69	107.99
1	3e	173	ARG	CA-C-N	7.33	129.96	120.44
1	3e	173	ARG	C-N-CA	7.33	129.96	120.44
1	3D	77	ALA	CB-CA-C	7.33	122.53	110.81
1	3I	215	MET	O-C-N	-7.33	113.26	122.27
1	3J	133	TRP	CA-C-N	7.33	129.79	120.56
1	3J	133	TRP	C-N-CA	7.33	129.79	120.56
1	4p	152	ASP	CA-CB-CG	-7.33	105.27	112.60
1	51	77	ALA	O-C-N	-7.33	113.65	122.22
1	5Y	12	HIS	CE1-NE2-CD2	-7.33	101.67	109.00
1	64	166	ASP	N-CA-CB	-7.33	99.39	110.01
1	6e	98	GLU	CA-C-N	7.33	129.00	119.84
1	6e	98	GLU	C-N-CA	7.33	129.00	119.84
1	7g	100	ARG	N-CA-C	7.33	119.98	110.53
1	8c	37	ILE	N-CA-C	7.33	121.14	112.35
1	8C	82	ARG	N-CA-CB	7.33	120.63	110.01
1	8C	169	TYR	N-CA-C	7.33	119.34	111.36
1	8G	62	HIS	CA-CB-CG	7.33	121.13	113.80
1	aQ	140	LYS	N-CA-C	7.33	119.27	111.28
1	by	191	VAL	O-C-N	-7.33	114.76	121.87
1	bM	155	GLN	OE1-CD-NE2	-7.33	115.27	122.60
1	1b	19	THR	CA-CB-CG2	7.33	122.95	110.50
1	bY	167	ARG	NE-CZ-NH1	7.33	128.83	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cT	162	ARG	NE-CZ-NH1	7.33	128.83	121.50
1	dR	195	ASN	N-CA-C	7.33	118.58	109.57
1	dU	143	ARG	CA-C-O	7.33	128.18	120.42
1	et	166	ASP	O-C-N	-7.33	114.36	122.12
1	eB	9	GLN	CA-C-N	7.33	132.44	120.94
1	eB	9	GLN	C-N-CA	7.33	132.44	120.94
1	eJ	98	GLU	CA-C-O	-7.33	112.24	119.49
1	fL	89	GLY	O-C-N	-7.33	115.83	122.42
1	1A	61	GLY	N-CA-C	7.33	124.64	112.85
1	fY	23	TRP	CA-C-N	7.33	130.50	120.46
1	fY	23	TRP	C-N-CA	7.33	130.50	120.46
1	g5	229	ARG	NE-CZ-NH1	7.33	128.83	121.50
1	v	3	VAL	CA-C-O	7.33	128.88	121.63
1	hr	154	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	hu	9	GLN	CA-C-O	-7.32	112.95	120.71
1	iQ	12	HIS	ND1-CE1-NE2	7.32	115.72	108.40
1	j3	102	SER	N-CA-C	7.32	121.47	112.54
1	j7	82	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	kH	72	THR	N-CA-CB	7.32	120.63	110.01
1	2i	31	ALA	N-CA-C	7.32	120.13	111.71
1	2m	14	ALA	O-C-N	-7.32	114.27	123.06
1	38	45	GLU	O-C-N	-7.32	113.27	123.01
1	3v	212	GLU	N-CA-C	7.32	119.90	111.11
1	3z	100	ARG	N-CA-C	-7.32	99.62	110.46
1	3z	188	THR	CA-CB-CG2	7.32	122.95	110.50
1	3E	91	ILE	CA-C-O	-7.32	113.12	121.98
1	3K	51	ASP	CA-C-N	7.32	130.09	120.28
1	3K	51	ASP	C-N-CA	7.32	130.09	120.28
1	3U	204	ALA	N-CA-C	7.32	121.90	113.19
1	4Q	179	GLN	N-CA-C	7.32	119.90	111.11
1	5h	106	GLY	CA-C-O	7.32	126.87	118.96
1	7i	120	HIS	CA-CB-CG	7.32	121.12	113.80
1	9a	84	HIS	CE1-NE2-CD2	-7.32	101.68	109.00
1	9m	78	ALA	N-CA-C	7.32	118.91	111.07
1	9T	26	VAL	N-CA-C	7.32	120.20	111.05
1	a9	178	SER	N-CA-C	7.32	120.60	110.35
1	aT	41	SER	CA-C-N	7.32	130.69	120.29
1	aT	41	SER	C-N-CA	7.32	130.69	120.29
1	bs	81	ASP	CA-CB-CG	7.32	119.92	112.60
1	c3	55	MET	N-CA-C	7.32	118.91	111.07
1	dL	66	MET	N-CA-C	7.32	120.19	111.33
1	eo	23	TRP	CB-CG-CD2	7.32	137.05	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	et	125	PRO	N-CA-CB	7.32	108.08	102.73
1	fu	142	VAL	N-CA-C	7.32	117.45	110.42
1	fH	103	ASP	N-CA-C	7.32	119.26	111.28
1	i	131	LYS	N-CA-C	7.32	120.19	111.33
1	E	94	GLY	N-CA-C	-7.32	104.66	115.72
1	hA	37	ILE	N-CA-CB	-7.32	105.61	110.52
1	ij	190	LEU	O-C-N	-7.32	114.53	122.07
1	is	99	PRO	CA-C-O	-7.32	112.40	120.97
1	jc	3	VAL	CA-C-N	7.32	133.56	122.65
1	jc	3	VAL	C-N-CA	7.32	133.56	122.65
1	jy	67	GLN	N-CA-C	7.32	119.26	111.28
1	25	73	ILE	O-C-N	-7.32	114.73	121.91
1	l1	114	GLN	CA-C-N	7.32	130.82	120.42
1	l1	114	GLN	C-N-CA	7.32	130.82	120.42
1	28	226	HIS	CA-CB-CG	7.32	121.12	113.80
1	lB	159	GLU	CA-C-N	7.32	127.77	119.93
1	lB	159	GLU	C-N-CA	7.32	127.77	119.93
1	2Q	59	VAL	CB-CA-C	-7.32	101.83	110.91
1	3e	116	GLY	CA-C-N	7.32	130.41	120.38
1	3e	116	GLY	C-N-CA	7.32	130.41	120.38
1	3L	74	ASN	CA-CB-CG	7.32	119.92	112.60
1	5r	178	SER	O-C-N	-7.32	112.85	122.59
1	a1	163	ASP	O-C-N	7.32	129.61	122.07
1	at	183	ASN	N-CA-C	7.32	119.26	111.28
1	aM	79	GLU	N-CA-CB	7.32	120.63	110.01
1	14	58	THR	N-CA-C	-7.32	103.94	114.12
1	cy	206	GLY	CA-C-N	7.32	127.95	120.04
1	cy	206	GLY	C-N-CA	7.32	127.95	120.04
1	dy	95	GLN	O-C-N	-7.32	114.76	123.03
1	dY	83	LEU	N-CA-C	7.32	119.34	111.36
1	fk	219	GLN	O-C-N	-7.32	114.37	123.01
1	gC	155	GLN	N-CA-C	7.32	121.01	110.10
1	h1	124	ILE	O-C-N	-7.32	114.95	121.61
1	i8	203	LYS	CA-C-N	7.32	129.96	120.44
1	i8	203	LYS	C-N-CA	7.32	129.96	120.44
1	iZ	97	ARG	NH1-CZ-NH2	-7.32	109.78	119.30
1	j8	78	ALA	CA-C-N	7.32	129.96	120.44
1	j8	78	ALA	C-N-CA	7.32	129.96	120.44
1	jb	182	LYS	CA-C-N	7.32	129.96	120.44
1	jb	182	LYS	C-N-CA	7.32	129.96	120.44
1	jV	184	TRP	CA-C-O	7.32	128.51	120.82
1	l9	95	GLN	N-CA-C	7.32	120.84	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lw	14	ALA	O-C-N	-7.32	112.85	122.59
1	2n	100	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	2n	156	GLY	CA-C-O	-7.32	111.05	121.52
1	2E	87	HIS	N-CA-C	7.32	120.87	109.96
1	2L	70	LYS	N-CA-C	7.32	119.89	111.11
1	3k	4	GLN	O-C-N	-7.32	114.22	122.86
1	49	186	THR	CA-CB-OG1	7.32	120.58	109.60
1	4c	83	LEU	N-CA-C	7.32	119.26	111.28
1	4n	135	ILE	O-C-N	-7.32	114.77	121.87
1	4J	28	GLU	CA-C-N	7.32	130.40	120.44
1	4J	28	GLU	C-N-CA	7.32	130.40	120.44
1	5b	128	GLU	N-CA-C	7.32	119.26	111.28
1	5F	12	HIS	CE1-NE2-CD2	-7.32	101.68	109.00
1	5H	188	THR	N-CA-CB	7.32	122.86	110.49
1	5Z	195	ASN	CA-C-N	7.32	126.58	118.97
1	5Z	195	ASN	C-N-CA	7.32	126.58	118.97
1	6h	14	ALA	N-CA-C	7.32	120.31	110.35
1	6o	110	THR	CA-C-N	7.32	130.09	120.28
1	6o	110	THR	C-N-CA	7.32	130.09	120.28
1	7F	20	LEU	CA-C-N	7.32	129.96	120.44
1	7F	20	LEU	C-N-CA	7.32	129.96	120.44
1	7P	139	ASN	N-CA-C	7.32	119.26	111.28
1	8q	120	HIS	ND1-CE1-NE2	7.32	115.72	108.40
1	8H	168	PHE	N-CA-C	7.32	118.90	111.07
1	9i	129	ILE	CA-C-N	7.32	130.09	120.28
1	9i	129	ILE	C-N-CA	7.32	130.09	120.28
1	9P	172	LEU	CA-C-N	7.32	130.09	120.28
1	9P	172	LEU	C-N-CA	7.32	130.09	120.28
1	ax	143	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	16	201	ILE	CA-C-N	7.32	130.09	120.28
1	16	201	ILE	C-N-CA	7.32	130.09	120.28
1	bd	136	LEU	CA-C-N	7.32	128.26	119.99
1	bd	136	LEU	C-N-CA	7.32	128.26	119.99
1	bp	111	LEU	N-CA-C	7.32	119.34	111.36
1	bJ	4	GLN	N-CA-CB	7.32	122.86	110.49
1	c4	107	THR	N-CA-C	7.32	119.26	111.28
1	cC	175	GLU	N-CA-C	7.32	120.35	109.59
1	1g	57	ASN	CA-CB-CG	-7.32	105.28	112.60
1	cL	66	MET	N-CA-C	7.32	119.34	111.36
1	df	22	ALA	N-CA-C	7.32	119.26	111.28
1	dh	31	ALA	N-CA-C	7.32	121.79	112.86
1	dK	129	ILE	CA-C-O	-7.32	113.34	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eP	57	ASN	OD1-CG-ND2	-7.32	115.28	122.60
1	fc	197	ASP	CA-CB-CG	-7.32	105.28	112.60
1	fx	52	LEU	O-C-N	-7.32	114.36	122.12
1	fD	129	ILE	O-C-N	7.32	129.26	121.94
1	g3	28	GLU	N-CA-CB	-7.32	98.95	110.22
1	a	120	HIS	CA-CB-CG	7.32	121.12	113.80
1	b	214	MET	CG-SD-CE	-7.32	84.80	100.90
1	B	164	TYR	N-CA-C	7.32	119.95	111.02
1	P	55	MET	O-C-N	-7.32	114.36	122.12
1	9	170	LYS	N-CA-C	7.32	119.26	111.28
1	gc	104	ILE	N-CA-C	7.32	118.11	110.72
1	gz	63	GLN	N-CA-C	7.32	119.26	111.28
1	hY	116	GLY	CA-C-N	7.32	130.09	120.28
1	hY	116	GLY	C-N-CA	7.32	130.09	120.28
1	i1	178	SER	O-C-N	-7.32	114.04	122.68
1	iY	5	ASN	N-CA-CB	-7.32	98.44	110.52
1	lN	195	ASN	N-CA-C	7.32	118.02	109.60
1	2t	37	ILE	O-C-N	-7.32	115.74	120.42
1	39	62	HIS	ND1-CG-CD2	7.32	113.42	106.10
1	3k	195	ASN	CA-C-N	7.32	128.99	119.84
1	3k	195	ASN	C-N-CA	7.32	128.99	119.84
1	4r	213	GLU	CA-C-N	7.32	130.09	120.28
1	4r	213	GLU	C-N-CA	7.32	130.09	120.28
1	5g	195	ASN	CA-CB-CG	7.32	119.92	112.60
1	6j	81	ASP	CA-C-N	7.32	130.09	120.28
1	6j	81	ASP	C-N-CA	7.32	130.09	120.28
1	6I	163	ASP	CA-CB-CG	7.32	119.92	112.60
1	7t	61	GLY	CA-C-N	7.32	133.04	122.35
1	7t	61	GLY	C-N-CA	7.32	133.04	122.35
1	7S	170	LYS	O-C-N	-7.32	114.19	122.09
1	7U	162	ARG	NE-CZ-NH2	7.32	125.79	119.20
1	85	100	ARG	NE-CZ-NH1	7.32	128.82	121.50
1	8B	192	GLN	OE1-CD-NE2	-7.32	115.28	122.60
1	9p	97	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	9B	155	GLN	OE1-CD-NE2	-7.32	115.28	122.60
1	af	126	VAL	N-CA-C	7.32	118.96	110.62
1	aq	79	GLU	N-CA-C	7.32	119.26	111.28
1	bq	104	ILE	CA-C-O	7.32	128.40	120.57
1	bI	9	GLN	N-CA-C	7.32	121.51	112.58
1	ck	73	ILE	CB-CA-C	-7.32	102.60	111.97
1	cJ	144	MET	CA-C-O	7.32	128.50	120.82
1	cL	92	GLU	CA-C-O	-7.32	113.56	119.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eY	228	ALA	N-CA-C	7.32	120.13	111.71
1	fj	14	ALA	N-CA-C	7.32	120.30	110.35
1	k	170	LYS	CA-C-N	7.32	129.95	120.44
1	k	170	LYS	C-N-CA	7.32	129.95	120.44
1	R	89	GLY	CA-C-N	7.32	128.99	119.84
1	R	89	GLY	C-N-CA	7.32	128.99	119.84
1	hm	148	THR	CA-C-O	7.32	129.36	121.16
1	hu	142	VAL	N-CA-C	7.32	117.44	110.42
1	1K	159	GLU	CA-C-N	7.32	128.99	119.84
1	1K	159	GLU	C-N-CA	7.32	128.99	119.84
1	1K	185	MET	CA-C-O	7.32	128.53	120.63
1	hB	29	GLU	N-CA-C	7.32	119.04	111.14
1	hL	154	ARG	NE-CZ-NH2	7.32	125.79	119.20
1	ip	68	MET	CA-C-N	7.32	129.95	120.44
1	ip	68	MET	C-N-CA	7.32	129.95	120.44
1	iP	140	LYS	N-CA-C	7.32	118.90	111.07
1	1V	39	MET	N-CA-CB	-7.32	99.33	110.16
1	jA	140	LYS	N-CA-C	7.32	119.89	111.11
1	jD	172	LEU	N-CA-C	7.32	119.26	111.28
1	2w	218	CYS	CA-C-N	7.32	130.68	120.29
1	2w	218	CYS	C-N-CA	7.32	130.68	120.29
1	3n	5	ASN	N-CA-C	-7.32	104.48	113.41
1	3u	139	ASN	OD1-CG-ND2	-7.32	115.28	122.60
1	3V	143	ARG	O-C-N	-7.32	114.53	122.07
1	4K	215	MET	N-CA-CB	7.32	120.99	110.16
1	4M	146	SER	O-C-N	-7.32	114.79	121.30
1	4N	203	LYS	N-CA-C	7.32	119.26	111.28
1	55	227	LYS	N-CA-C	7.32	120.12	111.71
1	5b	197	ASP	N-CA-CB	7.32	120.99	110.16
1	5F	210	THR	N-CA-C	7.32	120.19	110.53
1	5I	176	GLN	OE1-CD-NE2	-7.32	115.28	122.60
1	7h	195	ASN	CA-CB-CG	7.32	119.92	112.60
1	7r	126	VAL	N-CA-C	7.32	120.24	111.09
1	8X	167	ARG	NE-CZ-NH2	7.32	125.79	119.20
1	9H	177	ALA	N-CA-C	7.32	120.84	110.23
1	a6	95	GLN	CB-CA-C	7.32	122.02	109.51
1	aW	206	GLY	CA-C-N	7.32	126.95	119.19
1	aW	206	GLY	C-N-CA	7.32	126.95	119.19
1	bU	44	SER	N-CA-C	-7.32	103.50	113.30
1	c7	80	TRP	CA-C-O	7.32	128.18	120.42
1	cf	124	ILE	N-CA-CB	7.32	121.45	111.21
1	cI	53	ASN	CA-CB-CG	-7.32	105.28	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dz	169	TYR	N-CA-C	7.32	119.25	111.28
1	fh	84	HIS	CB-CA-C	-7.32	101.66	110.08
1	fx	12	HIS	ND1-CE1-NE2	7.32	115.72	108.40
1	gt	213	GLU	N-CA-C	7.32	119.25	111.28
1	i9	81	ASP	CA-C-N	7.32	130.81	120.28
1	i9	81	ASP	C-N-CA	7.32	130.81	120.28
1	if	163	ASP	CA-C-N	7.32	129.95	120.44
1	if	163	ASP	C-N-CA	7.32	129.95	120.44
1	iI	87	HIS	CE1-NE2-CD2	-7.32	101.68	109.00
1	iV	107	THR	N-CA-C	7.32	120.69	111.69
1	je	205	LEU	CA-C-N	7.32	133.35	121.87
1	je	205	LEU	C-N-CA	7.32	133.35	121.87
1	jS	26	VAL	N-CA-C	7.32	117.40	110.30
1	kD	75	GLU	N-CA-C	7.32	119.89	111.11
1	lb	196	PRO	N-CA-CB	7.32	111.60	103.26
1	2j	180	GLU	N-CA-C	7.32	118.90	111.07
1	2Q	57	ASN	CA-CB-CG	-7.32	105.28	112.60
1	48	198	CYS	N-CA-C	7.32	118.90	111.07
1	4r	95	GLN	CA-C-O	7.32	129.33	120.92
1	54	67	GLN	CA-C-N	7.32	130.68	120.29
1	54	67	GLN	C-N-CA	7.32	130.68	120.29
1	5F	94	GLY	CA-C-O	7.32	127.47	119.06
1	65	79	GLU	N-CA-C	7.32	119.25	111.28
1	77	23	TRP	CB-CG-CD1	-7.32	115.93	126.90
1	82	95	GLN	N-CA-C	7.32	120.19	110.53
1	9c	76	GLU	CA-C-N	7.32	130.08	120.28
1	9c	76	GLU	C-N-CA	7.32	130.08	120.28
1	9j	52	LEU	N-CA-C	7.32	119.89	111.11
1	au	19	THR	N-CA-C	7.32	119.25	111.28
1	14	193	ASN	CA-CB-CG	-7.32	105.28	112.60
1	bD	11	VAL	N-CA-C	7.32	119.02	109.58
1	cI	109	SER	CA-C-N	7.32	135.01	121.62
1	cI	109	SER	C-N-CA	7.32	135.01	121.62
1	cM	23	TRP	N-CA-C	7.32	119.94	111.02
1	e2	160	PRO	CA-C-N	7.32	130.42	120.54
1	e2	160	PRO	C-N-CA	7.32	130.42	120.54
1	e7	55	MET	CA-C-N	7.32	129.95	120.44
1	e7	55	MET	C-N-CA	7.32	129.95	120.44
1	ei	177	ALA	N-CA-C	7.32	126.38	110.80
1	eo	50	GLN	CA-C-N	7.32	129.95	120.44
1	eo	50	GLN	C-N-CA	7.32	129.95	120.44
1	et	115	ILE	O-C-N	-7.32	114.74	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f1	141	ILE	CA-C-O	7.32	128.92	121.17
1	fn	92	GLU	CA-C-O	-7.32	112.34	119.51
1	fz	229	ARG	NE-CZ-NH2	-7.32	112.61	119.20
1	f	171	THR	CA-C-N	7.32	130.08	120.28
1	f	171	THR	C-N-CA	7.32	130.08	120.28
1	hy	227	LYS	N-CA-C	7.31	118.90	111.07
1	hK	53	ASN	CA-C-N	7.31	130.08	120.28
1	hK	53	ASN	C-N-CA	7.31	130.08	120.28
1	hZ	10	MET	CG-SD-CE	-7.31	84.81	100.90
1	jp	134	ILE	CA-C-N	7.31	130.48	120.46
1	jp	134	ILE	C-N-CA	7.31	130.48	120.46
1	jQ	225	GLY	N-CA-C	7.31	123.00	113.27
1	k3	154	ARG	NE-CZ-NH2	7.31	125.78	119.20
1	lM	171	THR	CA-C-N	7.31	130.08	120.28
1	lM	171	THR	C-N-CA	7.31	130.08	120.28
1	lP	12	HIS	CE1-NE2-CD2	-7.31	101.69	109.00
1	43	76	GLU	CA-C-N	7.31	130.08	120.28
1	43	76	GLU	C-N-CA	7.31	130.08	120.28
1	4a	143	ARG	CA-C-O	7.31	128.30	120.55
1	4d	171	THR	CA-CB-OG1	7.31	120.57	109.60
1	7X	83	LEU	CA-C-O	7.31	127.09	119.05
1	8o	100	ARG	CA-C-N	7.31	129.28	120.14
1	8o	100	ARG	C-N-CA	7.31	129.28	120.14
1	8t	120	HIS	CA-CB-CG	7.31	121.11	113.80
1	ac	131	LYS	N-CA-C	7.31	119.25	111.28
1	al	129	ILE	CA-C-N	7.31	130.08	120.28
1	al	129	ILE	C-N-CA	7.31	130.08	120.28
1	ay	162	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	bw	83	LEU	CA-C-O	7.31	127.88	119.18
1	cE	124	ILE	CA-C-O	-7.31	112.60	119.62
1	cG	202	LEU	N-CA-C	7.31	121.46	112.54
1	cM	39	MET	O-C-N	7.31	131.27	122.27
1	dt	205	LEU	O-C-N	-7.31	113.81	122.15
1	dM	199	LYS	O-C-N	-7.31	114.37	122.12
1	fU	141	ILE	N-CA-C	7.31	118.04	110.36
1	fW	160	PRO	CA-C-N	7.31	129.95	120.44
1	fW	160	PRO	C-N-CA	7.31	129.95	120.44
1	g6	131	LYS	CA-C-N	7.31	130.08	120.28
1	g6	131	LYS	C-N-CA	7.31	130.08	120.28
1	c	159	GLU	N-CA-C	7.31	118.01	109.60
1	R	218	CYS	CA-C-O	-7.31	111.00	119.05
1	hN	74	ASN	CA-CB-CG	-7.31	105.29	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hO	161	PHE	CA-CB-CG	-7.31	106.49	113.80
1	1Q	18	ARG	NE-CZ-NH2	-7.31	112.62	119.20
1	iJ	197	ASP	CA-CB-CG	-7.31	105.29	112.60
1	jz	64	ALA	O-C-N	-7.31	114.19	122.09
1	jY	67	GLN	CA-C-N	7.31	130.08	120.28
1	jY	67	GLN	C-N-CA	7.31	130.08	120.28
1	k9	143	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	kb	22	ALA	CA-C-N	7.31	129.95	120.44
1	kb	22	ALA	C-N-CA	7.31	129.95	120.44
1	24	13	GLN	CA-C-O	-7.31	112.96	120.71
1	l2	11	VAL	CB-CA-C	7.31	121.01	110.33
1	2s	87	HIS	CA-CB-CG	7.31	121.11	113.80
1	2J	182	LYS	CA-C-N	7.31	129.95	120.44
1	2J	182	LYS	C-N-CA	7.31	129.95	120.44
1	3l	164	TYR	CB-CA-C	7.31	123.28	110.85
1	3w	104	ILE	N-CA-C	7.31	118.96	110.62
1	46	52	LEU	N-CA-C	7.31	119.25	111.28
1	5c	45	GLU	O-C-N	-7.31	113.97	122.89
1	5A	43	LEU	N-CA-C	7.31	119.89	111.11
1	5O	148	THR	O-C-N	-7.31	115.29	123.48
1	5R	188	THR	CA-C-N	7.31	129.95	120.44
1	5R	188	THR	C-N-CA	7.31	129.95	120.44
1	7u	53	ASN	O-C-N	-7.31	113.66	122.22
1	7F	5	ASN	CA-C-N	7.31	132.50	122.34
1	7F	5	ASN	C-N-CA	7.31	132.50	122.34
1	8j	34	PRO	N-CA-C	7.31	127.53	112.47
1	9e	61	GLY	CA-C-N	7.31	133.43	122.68
1	9e	61	GLY	C-N-CA	7.31	133.43	122.68
1	9s	73	ILE	N-CA-C	7.31	118.08	110.62
1	9V	191	VAL	CB-CA-C	-7.31	102.61	111.97
1	ad	131	LYS	CA-C-N	7.31	129.95	120.44
1	ad	131	LYS	C-N-CA	7.31	129.95	120.44
1	bo	51	ASP	CA-C-N	7.31	129.95	120.44
1	bo	51	ASP	C-N-CA	7.31	129.95	120.44
1	bF	225	GLY	O-C-N	7.31	129.10	122.81
1	cg	217	ALA	N-CA-C	7.31	120.29	110.35
1	dc	53	ASN	N-CA-C	7.31	118.89	111.07
1	eh	230	VAL	CA-CB-CG2	-7.31	97.97	110.40
1	er	89	GLY	CA-C-N	7.31	127.75	119.93
1	er	89	GLY	C-N-CA	7.31	127.75	119.93
1	eV	79	GLU	N-CA-C	7.31	119.25	111.28
1	fd	133	TRP	CE3-CZ3-CH2	-7.31	111.59	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ff	178	SER	N-CA-C	7.31	119.75	110.24
1	gw	195	ASN	CA-C-O	-7.31	113.57	119.71
1	gG	226	HIS	N-CA-C	7.31	121.60	109.46
1	gY	53	ASN	OD1-CG-ND2	-7.31	115.29	122.60
1	1H	53	ASN	OD1-CG-ND2	-7.31	115.29	122.60
1	he	226	HIS	CE1-NE2-CD2	-7.31	101.69	109.00
1	hu	62	HIS	CA-C-N	7.31	130.08	120.28
1	hu	62	HIS	C-N-CA	7.31	130.08	120.28
1	hu	165	VAL	CA-C-O	-7.31	113.35	120.95
1	ib	52	LEU	N-CA-C	7.31	119.25	111.28
1	kb	5	ASN	CA-CB-CG	7.31	119.91	112.60
1	25	37	ILE	O-C-N	-7.31	112.77	121.10
1	l9	202	LEU	CA-C-N	7.31	129.94	120.44
1	l9	202	LEU	C-N-CA	7.31	129.94	120.44
1	lb	57	ASN	O-C-N	-7.31	113.28	122.27
1	2d	132	ARG	NH1-CZ-NH2	7.31	128.80	119.30
1	33	62	HIS	ND1-CE1-NE2	7.31	115.71	108.40
1	6l	196	PRO	CA-C-N	7.31	130.08	120.28
1	6l	196	PRO	C-N-CA	7.31	130.08	120.28
1	6v	167	ARG	N-CA-C	7.31	119.88	111.11
1	7Z	100	ARG	NE-CZ-NH1	-7.31	114.19	121.50
1	9c	132	ARG	CA-C-N	7.31	130.08	120.28
1	9c	132	ARG	C-N-CA	7.31	130.08	120.28
1	aK	18	ARG	NE-CZ-NH2	-7.31	112.62	119.20
1	bA	155	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	dF	98	GLU	CA-C-O	-7.31	113.25	119.76
1	eB	42	ALA	CA-C-N	7.31	130.08	120.28
1	eB	42	ALA	C-N-CA	7.31	130.08	120.28
1	fI	82	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	g3	176	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	K	33	SER	O-C-N	-7.31	116.69	121.88
1	K	188	THR	CA-C-N	7.31	130.08	120.28
1	K	188	THR	C-N-CA	7.31	130.08	120.28
1	T	195	ASN	CA-CB-CG	7.31	119.91	112.60
1	gW	112	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	hc	167	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	hM	9	GLN	OE1-CD-NE2	7.31	129.91	122.60
1	hX	159	GLU	CA-C-N	7.31	128.98	119.84
1	hX	159	GLU	C-N-CA	7.31	128.98	119.84
1	i4	195	ASN	CA-CB-CG	7.31	119.91	112.60
1	i8	184	TRP	CB-CA-C	7.31	122.92	110.79
1	if	116	GLY	N-CA-C	7.31	121.49	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iB	140	LYS	N-CA-C	7.31	119.25	111.28
1	iD	97	ARG	CD-NE-CZ	7.31	134.63	124.40
1	j0	72	THR	CA-C-N	7.31	130.03	120.60
1	j0	72	THR	C-N-CA	7.31	130.03	120.60
1	kC	167	ARG	CA-C-N	7.31	129.94	120.44
1	kC	167	ARG	C-N-CA	7.31	129.94	120.44
1	24	163	ASP	CA-C-N	7.31	129.94	120.44
1	24	163	ASP	C-N-CA	7.31	129.94	120.44
1	kR	53	ASN	N-CA-C	-7.31	103.31	111.28
1	l4	74	ASN	CA-CB-CG	7.31	119.91	112.60
1	lc	156	GLY	CA-C-O	-7.31	115.37	122.46
1	lE	48	THR	CA-C-N	7.31	128.98	119.84
1	lE	48	THR	C-N-CA	7.31	128.98	119.84
1	lL	77	ALA	N-CA-C	7.31	120.17	111.33
1	lM	40	PHE	N-CA-C	7.31	120.17	111.33
1	2S	20	LEU	O-C-N	-7.31	114.54	122.07
1	39	33	SER	CA-C-N	7.31	127.65	119.32
1	39	33	SER	C-N-CA	7.31	127.65	119.32
1	3g	226	HIS	CE1-NE2-CD2	-7.31	101.69	109.00
1	4G	121	ASN	CA-C-O	-7.31	112.84	119.86
1	5c	147	PRO	N-CA-C	7.31	122.73	111.11
1	5p	168	PHE	CB-CA-C	7.31	122.28	110.95
1	5x	81	ASP	O-C-N	-7.31	114.37	122.12
1	6w	33	SER	CA-C-O	-7.31	112.88	119.75
1	6Z	143	ARG	O-C-N	-7.31	114.20	122.09
1	7t	100	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	7T	25	LYS	CA-C-N	7.31	130.03	120.60
1	7T	25	LYS	C-N-CA	7.31	130.03	120.60
1	7T	135	ILE	N-CA-C	7.31	118.08	110.62
1	8m	184	TRP	CA-C-N	7.31	130.07	120.28
1	8m	184	TRP	C-N-CA	7.31	130.07	120.28
1	8J	39	MET	CA-C-N	7.31	130.41	120.54
1	8J	39	MET	C-N-CA	7.31	130.41	120.54
1	9t	224	PRO	N-CA-CB	7.31	109.77	103.19
1	9u	68	MET	CG-SD-CE	-7.31	84.82	100.90
1	bj	106	GLY	CA-C-N	7.31	130.95	120.79
1	bj	106	GLY	C-N-CA	7.31	130.95	120.79
1	br	199	LYS	CA-C-N	7.31	130.08	120.28
1	br	199	LYS	C-N-CA	7.31	130.08	120.28
1	bU	141	ILE	CA-C-N	7.31	129.77	120.56
1	bU	141	ILE	C-N-CA	7.31	129.77	120.56
1	cv	134	ILE	N-CA-C	7.31	118.08	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	136	LEU	CA-C-N	7.31	128.05	119.94
1	cv	136	LEU	C-N-CA	7.31	128.05	119.94
1	1f	50	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	cG	55	MET	CA-C-N	7.31	130.38	120.44
1	cG	55	MET	C-N-CA	7.31	130.38	120.44
1	dw	214	MET	N-CA-C	7.31	119.25	111.28
1	dC	86	VAL	N-CA-C	7.31	119.96	109.51
1	eO	205	LEU	N-CA-C	7.31	120.11	111.71
1	1w	130	TYR	CA-C-N	7.31	130.39	120.38
1	1w	130	TYR	C-N-CA	7.31	130.39	120.38
1	gL	158	LYS	CA-C-N	7.31	130.59	120.65
1	gL	158	LYS	C-N-CA	7.31	130.59	120.65
1	gZ	25	LYS	N-CA-C	7.31	119.88	111.11
1	hi	195	ASN	CB-CA-C	7.31	121.44	109.46
1	ij	165	VAL	O-C-N	-7.31	114.78	121.87
1	il	143	ARG	NH1-CZ-NH2	-7.31	109.80	119.30
1	iG	39	MET	CA-C-N	7.31	130.39	120.38
1	iG	39	MET	C-N-CA	7.31	130.39	120.38
1	iU	42	ALA	O-C-N	-7.31	114.37	122.12
1	4T	87	HIS	O-C-N	-7.31	114.67	123.29
1	5V	168	PHE	CA-CB-CG	7.31	121.11	113.80
1	6R	76	GLU	N-CA-C	7.31	118.89	111.07
1	7U	167	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	8a	205	LEU	N-CA-C	7.31	120.17	111.33
1	8o	137	GLY	CA-C-N	7.31	129.94	120.44
1	8o	137	GLY	C-N-CA	7.31	129.94	120.44
1	8P	134	ILE	CA-C-N	7.31	130.47	120.46
1	8P	134	ILE	C-N-CA	7.31	130.47	120.46
1	9L	129	ILE	N-CA-C	7.31	118.03	110.36
1	Y	23	TRP	N-CA-C	7.31	119.25	111.28
1	a9	219	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	ai	84	HIS	O-C-N	-7.31	114.67	121.32
1	aW	49	PRO	CA-C-N	7.31	129.94	120.44
1	aW	49	PRO	C-N-CA	7.31	129.94	120.44
1	b2	84	HIS	N-CA-C	7.31	121.09	109.40
1	bw	166	ASP	N-CA-CB	-7.31	98.71	109.82
1	bQ	162	ARG	N-CA-C	7.31	120.17	111.33
1	cY	7	GLN	N-CA-C	7.31	122.22	113.16
1	dd	92	GLU	O-C-N	-7.31	112.79	121.12
1	et	106	GLY	CA-C-O	7.31	127.19	119.00
1	eO	70	LYS	CA-C-O	7.31	128.49	120.82
1	eT	5	ASN	CA-CB-CG	7.31	119.91	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1u	162	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	fI	161	PHE	CA-C-N	7.31	131.05	120.38
1	fI	161	PHE	C-N-CA	7.31	131.05	120.38
1	ge	179	GLN	N-CA-C	7.31	119.24	111.28
1	gj	226	HIS	ND1-CE1-NE2	7.31	115.71	108.40
1	1M	219	GLN	OE1-CD-NE2	-7.31	115.29	122.60
1	i3	132	ARG	NE-CZ-NH1	7.31	128.81	121.50
1	jm	53	ASN	CA-CB-CG	-7.31	105.29	112.60
1	1Y	126	VAL	N-CA-C	7.31	118.95	110.62
1	jX	18	ARG	N-CA-CB	7.31	120.86	110.12
1	ll	43	LEU	CA-C-O	7.31	128.36	120.10
1	3r	62	HIS	ND1-CE1-NE2	7.31	115.71	108.40
1	4M	40	PHE	CA-CB-CG	7.31	121.11	113.80
1	5f	210	THR	CA-C-O	-7.31	113.19	121.81
1	5j	214	MET	N-CA-C	7.31	119.24	111.28
1	5l	135	ILE	CA-C-O	-7.31	113.35	120.95
1	6V	128	GLU	CA-C-N	7.31	129.91	120.56
1	6V	128	GLU	C-N-CA	7.31	129.91	120.56
1	9L	210	THR	CA-C-N	7.31	130.07	120.28
1	9L	210	THR	C-N-CA	7.31	130.07	120.28
1	a6	36	VAL	CA-C-N	7.31	124.84	120.24
1	a6	36	VAL	C-N-CA	7.31	124.84	120.24
1	av	197	ASP	CA-CB-CG	-7.31	105.29	112.60
1	bN	230	VAL	N-CA-C	7.31	118.47	110.21
1	bZ	81	ASP	CA-CB-CG	-7.31	105.29	112.60
1	ce	55	MET	N-CA-C	7.31	119.24	111.28
1	cs	151	LEU	CA-C-N	7.31	131.05	120.38
1	cs	151	LEU	C-N-CA	7.31	131.05	120.38
1	dl	62	HIS	ND1-CG-CD2	7.31	113.41	106.10
1	dI	217	ALA	N-CA-CB	7.31	120.69	110.17
1	1n	151	LEU	O-C-N	-7.31	114.38	122.12
1	f4	81	ASP	N-CA-C	7.31	119.24	111.28
1	fL	14	ALA	CA-C-N	7.31	130.29	120.50
1	fL	14	ALA	C-N-CA	7.31	130.29	120.50
1	gV	192	GLN	N-CA-C	-7.30	104.22	113.72
1	1I	192	GLN	CA-C-O	7.30	128.37	119.97
1	hF	167	ARG	NE-CZ-NH2	-7.30	112.63	119.20
1	hW	162	ARG	NE-CZ-NH2	7.30	125.78	119.20
1	ix	64	ALA	N-CA-C	7.30	119.24	111.28
1	iV	119	THR	CA-CB-CG2	-7.30	98.08	110.50
1	jt	200	THR	N-CA-CB	7.30	120.86	110.12
1	1X	81	ASP	CA-C-O	7.30	128.37	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kz	129	ILE	N-CA-C	7.30	117.43	110.42
1	lC	65	ALA	N-CA-CB	-7.30	99.35	110.16
1	2m	200	THR	CA-CB-CG2	7.30	122.92	110.50
1	2J	213	GLU	O-C-N	-7.30	113.36	122.35
1	3Q	36	VAL	CA-C-N	7.30	126.17	120.33
1	3Q	36	VAL	C-N-CA	7.30	126.17	120.33
1	3W	100	ARG	NE-CZ-NH1	7.30	128.80	121.50
1	48	25	LYS	N-CA-C	7.30	119.32	111.36
1	48	153	ILE	N-CA-C	7.30	118.48	108.84
1	4J	54	THR	CA-C-N	7.30	129.94	120.44
1	4J	54	THR	C-N-CA	7.30	129.94	120.44
1	5j	51	ASP	CA-C-N	7.30	130.29	120.65
1	5j	51	ASP	C-N-CA	7.30	130.29	120.65
1	66	91	ILE	CA-C-N	7.30	130.54	120.39
1	66	91	ILE	C-N-CA	7.30	130.54	120.39
1	6u	101	GLY	N-CA-C	7.30	121.48	112.64
1	7W	195	ASN	CA-CB-CG	7.30	119.91	112.60
1	8e	109	SER	N-CA-CB	7.30	123.44	110.80
1	8f	187	GLU	CA-C-O	7.30	126.79	118.97
1	8S	167	ARG	NE-CZ-NH2	-7.30	112.62	119.20
1	92	140	LYS	N-CA-C	7.30	118.89	111.07
1	Z	197	ASP	CA-CB-CG	7.30	119.91	112.60
1	bH	183	ASN	CA-CB-CG	7.30	119.90	112.60
1	bJ	100	ARG	NH1-CZ-NH2	-7.30	109.80	119.30
1	bK	104	ILE	N-CA-CB	7.30	118.62	110.51
1	cu	70	LYS	N-CA-C	7.30	118.89	111.07
1	d0	56	LEU	N-CA-C	7.30	119.24	111.28
1	ds	64	ALA	CA-C-N	7.30	129.94	120.44
1	ds	64	ALA	C-N-CA	7.30	129.94	120.44
1	dM	56	LEU	N-CA-C	7.30	119.24	111.28
1	dR	17	PRO	CA-C-N	7.30	130.38	120.44
1	dR	17	PRO	C-N-CA	7.30	130.38	120.44
1	1n	33	SER	CA-C-O	-7.30	113.14	120.66
1	ej	203	LYS	N-CA-C	7.30	119.32	111.36
1	f0	170	LYS	N-CA-CB	7.30	120.60	110.01
1	fq	226	HIS	CE1-NE2-CD2	-7.30	101.69	109.00
1	6	64	ALA	CA-C-N	7.30	129.94	120.44
1	6	64	ALA	C-N-CA	7.30	129.94	120.44
1	gi	184	TRP	CG-CD2-CE3	-7.30	126.60	133.90
1	gw	138	LEU	CA-C-N	7.30	129.93	120.44
1	gw	138	LEU	C-N-CA	7.30	129.93	120.44
1	gC	171	THR	O-C-N	-7.30	114.38	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	178	SER	O-C-N	-7.30	112.88	122.59
1	ia	16	SER	N-CA-C	7.30	119.99	109.84
1	jT	164	TYR	CA-C-N	7.30	130.34	120.77
1	jT	164	TYR	C-N-CA	7.30	130.34	120.77
1	22	186	THR	CA-C-O	7.30	128.29	120.55
1	kR	113	GLU	CA-C-N	7.30	129.93	120.44
1	kR	113	GLU	C-N-CA	7.30	129.93	120.44
1	ld	209	ALA	CA-C-O	7.30	130.95	120.51
1	2i	190	LEU	N-CA-C	7.30	118.88	111.07
1	2F	143	ARG	NH1-CZ-NH2	7.30	128.79	119.30
1	5g	145	TYR	O-C-N	-7.30	113.40	122.24
1	5h	26	VAL	CA-C-O	-7.30	113.43	121.17
1	5p	132	ARG	N-CA-C	7.30	120.17	111.33
1	5Y	175	GLU	N-CA-C	7.30	120.82	110.23
1	69	176	GLN	N-CA-C	7.30	119.73	110.24
1	6c	130	TYR	CA-C-N	7.30	130.40	120.54
1	6c	130	TYR	C-N-CA	7.30	130.40	120.54
1	6q	50	GLN	O-C-N	-7.30	114.38	122.12
1	6y	36	VAL	N-CA-C	7.30	118.07	110.62
1	7B	19	THR	N-CA-C	7.30	119.24	111.28
1	ai	129	ILE	CA-C-N	7.30	129.93	120.44
1	ai	129	ILE	C-N-CA	7.30	129.93	120.44
1	as	92	GLU	CA-C-O	-7.30	112.44	120.69
1	b2	26	VAL	N-CA-C	7.30	118.03	110.36
1	bQ	5	ASN	CA-CB-CG	7.30	119.90	112.60
1	fj	214	MET	CB-CA-C	-7.30	98.67	110.79
1	fD	195	ASN	CA-CB-CG	-7.30	105.30	112.60
1	N	140	LYS	CA-C-O	-7.30	112.68	120.42
1	gR	159	GLU	N-CA-C	7.30	118.00	109.60
1	h9	50	GLN	N-CA-C	7.30	119.24	111.28
1	hG	223	GLY	O-C-N	-7.30	114.47	121.77
1	i1	155	GLN	O-C-N	-7.30	113.83	122.81
1	jH	100	ARG	CG-CD-NE	-7.30	95.94	112.00
1	kn	124	ILE	O-C-N	-7.30	115.77	121.46
1	ko	183	ASN	O-C-N	-7.30	113.83	122.15
1	kA	211	LEU	N-CA-C	7.30	120.17	111.33
1	kC	141	ILE	N-CA-C	7.30	117.82	110.23
1	lm	42	ALA	N-CA-C	7.30	119.24	111.28
1	2k	127	GLY	CA-C-N	7.30	131.41	120.31
1	2k	127	GLY	C-N-CA	7.30	131.41	120.31
1	2J	34	PRO	N-CA-CB	7.30	110.14	103.20
1	3a	50	GLN	N-CA-C	7.30	119.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	99	PRO	N-CA-C	7.30	123.16	111.26
1	5D	96	MET	N-CA-C	7.30	121.25	110.30
1	6b	139	ASN	CA-CB-CG	-7.30	105.30	112.60
1	6f	174	ALA	N-CA-C	-7.30	103.94	112.92
1	6J	196	PRO	CA-C-N	7.30	130.66	120.29
1	6J	196	PRO	C-N-CA	7.30	130.66	120.29
1	7U	57	ASN	O-C-N	-7.30	112.04	122.41
1	8g	75	GLU	N-CA-C	7.30	119.24	111.28
1	9r	136	LEU	CA-C-N	7.30	128.03	120.00
1	9r	136	LEU	C-N-CA	7.30	128.03	120.00
1	14	11	VAL	O-C-N	-7.30	115.69	123.14
1	15	139	ASN	CA-C-O	-7.30	112.81	120.55
1	b0	167	ARG	N-CA-C	7.30	119.24	111.28
1	bi	73	ILE	N-CA-C	7.30	117.43	110.42
1	bU	197	ASP	CA-C-N	7.30	129.93	120.44
1	bU	197	ASP	C-N-CA	7.30	129.93	120.44
1	cd	62	HIS	ND1-CG-CD2	7.30	113.40	106.10
1	cz	12	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	1j	119	THR	CA-C-O	7.30	128.21	119.59
1	dm	39	MET	CA-C-N	7.30	129.93	120.44
1	dm	39	MET	C-N-CA	7.30	129.93	120.44
1	dn	7	GLN	CA-C-N	7.30	128.03	120.00
1	dn	7	GLN	C-N-CA	7.30	128.03	120.00
1	dz	214	MET	N-CA-C	7.30	119.87	111.11
1	e5	60	GLY	O-C-N	-7.30	113.21	122.70
1	ed	80	TRP	O-C-N	-7.30	114.38	122.12
1	ek	84	HIS	O-C-N	-7.30	113.00	121.47
1	eX	138	LEU	CA-C-O	7.30	128.37	119.97
1	f7	229	ARG	NE-CZ-NH1	7.30	128.80	121.50
1	fh	203	LYS	O-C-N	-7.30	114.38	122.12
1	fI	139	ASN	OD1-CG-ND2	-7.30	115.30	122.60
1	q	128	GLU	O-C-N	-7.30	114.20	122.09
1	B	149	SER	CA-C-O	7.30	129.06	120.66
1	F	73	ILE	N-CA-C	7.30	118.07	110.62
1	Q	139	ASN	O-C-N	-7.30	114.38	122.12
1	S	132	ARG	N-CA-C	7.30	118.88	111.07
1	W	30	LYS	CA-C-N	7.30	130.38	120.38
1	W	30	LYS	C-N-CA	7.30	130.38	120.38
1	ge	155	GLN	OE1-CD-NE2	-7.30	115.30	122.60
1	go	87	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	gp	132	ARG	CA-C-N	7.30	130.06	120.28
1	gp	132	ARG	C-N-CA	7.30	130.06	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gI	75	GLU	N-CA-C	7.30	119.24	111.28
1	1G	142	VAL	O-C-N	-7.30	114.31	121.90
1	hh	124	ILE	CB-CA-C	-7.30	103.73	110.88
1	hw	155	GLN	OE1-CD-NE2	-7.30	115.30	122.60
1	iv	168	PHE	O-C-N	-7.30	114.38	122.12
1	iz	48	THR	N-CA-CB	7.30	120.56	110.05
1	iK	27	VAL	N-CA-C	7.30	117.39	110.53
1	iS	70	LYS	N-CA-C	7.30	118.88	111.07
1	j5	128	GLU	O-C-N	7.30	130.47	122.15
1	jd	71	GLU	CA-C-O	7.30	128.29	120.55
1	jE	186	THR	N-CA-C	7.30	119.24	111.28
1	jM	150	ILE	CA-C-O	7.30	128.48	119.43
1	k1	211	LEU	CA-C-N	7.30	129.93	120.44
1	k1	211	LEU	C-N-CA	7.30	129.93	120.44
1	kt	15	ILE	CA-C-N	7.30	130.85	120.49
1	kt	15	ILE	C-N-CA	7.30	130.85	120.49
1	kY	163	ASP	CA-CB-CG	-7.30	105.30	112.60
1	li	74	ASN	CA-CB-CG	-7.30	105.30	112.60
1	28	26	VAL	CB-CA-C	-7.30	102.63	111.97
1	lL	158	LYS	CB-CA-C	-7.30	99.20	111.02
1	2n	103	ASP	CA-C-N	7.30	129.76	120.56
1	2n	103	ASP	C-N-CA	7.30	129.76	120.56
1	2z	191	VAL	O-C-N	-7.30	114.31	121.83
1	2B	88	ALA	CA-C-N	7.30	133.33	121.87
1	2B	88	ALA	C-N-CA	7.30	133.33	121.87
1	2H	226	HIS	CB-CG-ND1	7.30	133.65	122.70
1	3o	139	ASN	CA-CB-CG	7.30	119.90	112.60
1	46	132	ARG	CA-C-N	7.30	130.06	120.28
1	46	132	ARG	C-N-CA	7.30	130.06	120.28
1	4b	180	GLU	O-C-N	-7.30	113.68	122.22
1	4o	180	GLU	CA-C-N	7.30	129.76	120.56
1	4o	180	GLU	C-N-CA	7.30	129.76	120.56
1	4F	48	THR	CA-CB-OG1	7.30	120.55	109.60
1	4K	53	ASN	CA-C-N	7.30	129.93	120.44
1	4K	53	ASN	C-N-CA	7.30	129.93	120.44
1	4M	177	ALA	CA-C-N	7.30	131.19	120.90
1	4M	177	ALA	C-N-CA	7.30	131.19	120.90
1	5h	115	ILE	N-CA-C	7.30	118.94	110.62
1	6g	173	ARG	NE-CZ-NH2	-7.30	112.63	119.20
1	6W	142	VAL	CA-C-N	7.30	130.06	120.28
1	6W	142	VAL	C-N-CA	7.30	130.06	120.28
1	81	82	ARG	N-CA-C	7.30	121.94	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	85	47	ALA	O-C-N	-7.30	113.98	122.89
1	8o	208	ALA	N-CA-CB	-7.30	99.69	110.49
1	9p	75	GLU	N-CA-C	7.30	118.88	111.07
1	9H	12	HIS	CA-CB-CG	-7.30	106.50	113.80
1	a4	171	THR	N-CA-CB	7.30	120.96	110.16
1	a7	7	GLN	OE1-CD-NE2	-7.30	115.30	122.60
1	16	151	LEU	CA-C-N	7.30	130.06	120.28
1	16	151	LEU	C-N-CA	7.30	130.06	120.28
1	bg	4	GLN	OE1-CD-NE2	-7.30	115.30	122.60
1	bo	148	THR	N-CA-C	7.30	120.53	110.24
1	bw	120	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	bX	33	SER	O-C-N	-7.30	115.86	121.55
1	ft	132	ARG	N-CA-C	7.30	118.88	111.07
1	m	56	LEU	N-CA-CB	7.30	120.85	110.12
1	9	162	ARG	O-C-N	-7.30	113.68	122.22
1	h6	94	GLY	N-CA-C	-7.30	105.17	114.37
1	hh	28	GLU	N-CA-C	7.30	119.23	111.28
1	ik	230	VAL	CB-CA-C	7.30	119.79	110.96
1	iI	150	ILE	N-CA-C	7.30	124.52	109.34
1	iM	83	LEU	CA-C-N	-7.30	114.72	122.89
1	iM	83	LEU	C-N-CA	-7.30	114.72	122.89
1	j1	122	PRO	CA-C-N	7.30	127.28	119.76
1	j1	122	PRO	C-N-CA	7.30	127.28	119.76
1	1Y	226	HIS	ND1-CE1-NE2	7.30	115.70	108.40
1	lA	190	LEU	N-CA-C	7.30	118.88	111.07
1	3f	138	LEU	CA-C-N	7.30	130.38	120.38
1	3f	138	LEU	C-N-CA	7.30	130.38	120.38
1	4i	37	ILE	CA-C-N	7.30	127.15	119.05
1	4i	37	ILE	C-N-CA	7.30	127.15	119.05
1	67	203	LYS	N-CA-C	7.30	119.23	111.28
1	6a	56	LEU	CA-C-N	7.30	131.40	120.31
1	6a	56	LEU	C-N-CA	7.30	131.40	120.31
1	6p	5	ASN	CA-C-N	7.30	132.72	122.36
1	6p	5	ASN	C-N-CA	7.30	132.72	122.36
1	6X	5	ASN	O-C-N	-7.30	114.17	122.93
1	6X	144	MET	N-CA-C	7.30	118.88	111.07
1	7d	197	ASP	CA-CB-CG	-7.30	105.30	112.60
1	7M	149	SER	N-CA-CB	7.30	120.22	110.29
1	7Y	183	ASN	CA-CB-CG	-7.30	105.30	112.60
1	8M	69	LEU	CA-C-N	7.30	130.06	120.28
1	8M	69	LEU	C-N-CA	7.30	130.06	120.28
1	9I	187	GLU	N-CA-C	7.30	119.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aE	121	ASN	OD1-CG-ND2	-7.30	115.30	122.60
1	bb	169	TYR	N-CA-C	7.30	119.23	111.28
1	bu	62	HIS	ND1-CG-CD2	7.30	113.40	106.10
1	bu	117	TRP	CA-C-O	7.30	128.48	120.82
1	d4	142	VAL	CA-CB-CG1	7.30	122.81	110.40
1	eO	172	LEU	CA-C-O	7.30	128.37	120.20
1	eU	84	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	fM	2	ILE	O-C-N	-7.30	114.76	122.57
1	g6	82	ARG	CA-C-N	7.30	130.06	120.28
1	g6	82	ARG	C-N-CA	7.30	130.06	120.28
1	g9	76	GLU	O-C-N	-7.30	114.39	122.12
1	1D	153	ILE	O-C-N	-7.30	113.45	122.57
1	gT	7	GLN	N-CA-C	-7.30	98.09	108.96
1	gY	226	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	1H	20	LEU	O-C-N	-7.30	114.56	122.07
1	hs	89	GLY	O-C-N	-7.30	114.47	121.77
1	ig	161	PHE	N-CA-C	7.30	118.88	111.07
1	iN	26	VAL	O-C-N	-7.30	114.76	121.91
1	jH	195	ASN	N-CA-C	7.30	117.99	109.60
1	k0	205	LEU	N-CA-C	7.30	119.02	111.14
1	kf	61	GLY	N-CA-C	7.30	122.03	112.25
1	l2	152	ASP	N-CA-C	-7.30	104.41	113.38
1	lu	89	GLY	CA-C-N	7.30	128.96	119.84
1	lu	89	GLY	C-N-CA	7.30	128.96	119.84
1	3g	202	LEU	N-CA-C	7.30	120.16	111.33
1	3n	184	TRP	N-CA-C	7.30	119.23	111.28
1	3A	217	ALA	N-CA-C	7.30	120.53	110.24
1	3N	26	VAL	N-CA-C	7.30	117.42	110.42
1	41	162	ARG	O-C-N	-7.30	114.50	122.09
1	4z	199	LYS	CA-C-O	7.30	128.28	120.55
1	5n	181	VAL	N-CA-C	7.30	118.06	110.62
1	6L	176	GLN	OE1-CD-NE2	-7.30	115.30	122.60
1	7h	27	VAL	N-CA-C	7.30	117.42	110.42
1	7s	49	PRO	CA-C-N	7.30	129.92	120.44
1	7s	49	PRO	C-N-CA	7.30	129.92	120.44
1	7s	66	MET	CG-SD-CE	-7.30	84.85	100.90
1	82	158	LYS	N-CA-CB	7.30	123.02	110.98
1	8f	205	LEU	CA-C-O	-7.30	112.81	120.55
1	8t	66	MET	CA-C-O	7.30	128.51	120.63
1	8N	74	ASN	N-CA-C	7.30	118.88	111.07
1	8S	84	HIS	CA-C-O	-7.30	113.12	120.64
1	98	87	HIS	CA-CB-CG	-7.30	106.50	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9v	162	ARG	NE-CZ-NH2	-7.30	112.63	119.20
1	13	95	GLN	CA-C-N	7.30	133.51	122.93
1	13	95	GLN	C-N-CA	7.30	133.51	122.93
1	16	84	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	bp	92	GLU	N-CA-C	7.30	120.15	110.08
1	by	47	ALA	N-CA-C	7.30	120.81	110.23
1	de	134	ILE	CA-C-N	7.30	130.46	120.46
1	de	134	ILE	C-N-CA	7.30	130.46	120.46
1	dC	34	PRO	N-CA-CB	7.30	110.91	103.25
1	ep	2	ILE	CA-C-O	-7.30	112.73	120.39
1	fF	226	HIS	CE1-NE2-CD2	-7.30	101.70	109.00
1	fQ	114	GLN	CA-C-N	7.30	129.90	120.56
1	fQ	114	GLN	C-N-CA	7.30	129.90	120.56
1	b	23	TRP	N-CA-C	7.30	119.23	111.28
1	R	137	GLY	N-CA-C	7.30	120.96	112.50
1	1J	140	LYS	O-C-N	-7.29	114.56	122.07
1	hs	103	ASP	CA-CB-CG	-7.29	105.31	112.60
1	hX	74	ASN	CA-C-O	-7.29	113.09	120.90
1	i3	141	ILE	O-C-N	-7.29	114.79	121.87
1	ik	44	SER	CB-CA-C	-7.29	100.01	111.17
1	ik	132	ARG	CA-C-N	7.29	130.06	120.28
1	ik	132	ARG	C-N-CA	7.29	130.06	120.28
1	jA	26	VAL	O-C-N	-7.29	114.76	121.91
1	kh	55	MET	O-C-N	-7.29	114.39	122.12
1	kR	76	GLU	N-CA-C	7.29	118.88	111.07
1	kT	218	CYS	N-CA-CB	7.29	122.82	110.49
1	lj	103	ASP	N-CA-C	7.29	119.23	111.28
1	lD	48	THR	O-C-N	-7.29	113.87	121.60
1	2X	231	LEU	N-CA-CB	7.29	122.90	110.50
1	3f	84	HIS	CA-C-N	7.29	127.31	119.28
1	3f	84	HIS	C-N-CA	7.29	127.31	119.28
1	4n	193	ASN	CA-CB-CG	-7.29	105.31	112.60
1	4q	171	THR	N-CA-CB	7.29	120.84	110.12
1	6s	130	TYR	CA-C-O	7.29	128.36	119.97
1	8i	65	ALA	N-CA-C	7.29	118.88	111.07
1	bi	226	HIS	CE1-NE2-CD2	-7.29	101.70	109.00
1	bR	162	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	1g	8	GLY	N-CA-C	7.29	120.36	112.33
1	cS	135	ILE	N-CA-C	7.29	118.06	110.62
1	eH	73	ILE	N-CA-C	7.29	118.09	110.72
1	eM	159	GLU	O-C-N	7.29	128.57	121.28
1	eO	121	ASN	CA-C-O	-7.29	113.90	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eU	34	PRO	CA-C-N	7.29	130.78	120.28
1	eU	34	PRO	C-N-CA	7.29	130.78	120.28
1	f2	117	TRP	N-CA-C	7.29	120.10	111.71
1	fp	201	ILE	O-C-N	-7.29	114.31	121.90
1	fw	183	ASN	CA-C-O	-7.29	112.14	120.24
1	fR	50	GLN	OE1-CD-NE2	7.29	129.90	122.60
1	fT	189	LEU	N-CA-C	7.29	119.02	111.14
1	p	39	MET	O-C-N	-7.29	114.39	122.12
1	ge	82	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	gV	221	VAL	CA-CB-CG2	7.29	122.80	110.40
1	h7	24	VAL	N-CA-C	7.29	118.94	110.62
1	h9	223	GLY	CA-C-N	7.29	128.96	119.84
1	h9	223	GLY	C-N-CA	7.29	128.96	119.84
1	it	136	LEU	CA-C-N	7.29	128.20	120.03
1	it	136	LEU	C-N-CA	7.29	128.20	120.03
1	iN	15	ILE	O-C-N	-7.29	114.86	122.66
1	jj	181	VAL	O-C-N	-7.29	114.80	121.87
1	jP	146	SER	CA-C-O	-7.29	112.79	120.23
1	kD	164	TYR	N-CA-C	7.29	118.88	111.07
1	l7	185	MET	N-CA-C	7.29	119.23	111.28
1	lh	171	THR	N-CA-CB	7.29	120.96	110.16
1	lj	155	GLN	N-CA-C	7.29	119.72	110.24
1	lJ	121	ASN	CA-C-O	-7.29	113.68	119.66
1	35	97	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	3f	37	ILE	O-C-N	-7.29	115.75	120.42
1	4c	206	GLY	CA-C-N	7.29	127.34	119.90
1	4c	206	GLY	C-N-CA	7.29	127.34	119.90
1	4y	164	TYR	CA-C-N	7.29	130.01	120.60
1	4y	164	TYR	C-N-CA	7.29	130.01	120.60
1	55	200	THR	CA-C-N	7.29	129.75	120.56
1	55	200	THR	C-N-CA	7.29	129.75	120.56
1	5G	50	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	6t	197	ASP	N-CA-C	7.29	119.86	111.11
1	6A	75	GLU	N-CA-C	7.29	120.16	111.33
1	6V	32	PHE	CA-C-O	7.29	128.13	120.54
1	6V	195	ASN	O-C-N	-7.29	113.87	121.60
1	6W	114	GLN	CA-C-N	7.29	130.01	120.60
1	6W	114	GLN	C-N-CA	7.29	130.01	120.60
1	7x	91	ILE	N-CA-C	7.29	120.13	109.63
1	86	33	SER	CA-C-N	7.29	126.93	119.56
1	86	33	SER	C-N-CA	7.29	126.93	119.56
1	86	210	THR	CA-C-N	7.29	130.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	86	210	THR	C-N-CA	7.29	130.05	120.28
1	87	21	ASN	CA-CB-CG	7.29	119.89	112.60
1	8f	203	LYS	CA-C-N	7.29	130.05	120.28
1	8f	203	LYS	C-N-CA	7.29	130.05	120.28
1	8G	143	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	8V	140	LYS	CA-C-N	7.29	130.01	120.60
1	8V	140	LYS	C-N-CA	7.29	130.01	120.60
1	9u	20	LEU	CA-C-N	7.29	130.05	120.28
1	9u	20	LEU	C-N-CA	7.29	130.05	120.28
1	9R	116	GLY	CA-C-O	7.29	128.39	120.66
1	a2	143	ARG	NE-CZ-NH1	-7.29	114.21	121.50
1	a6	64	ALA	CA-C-N	7.29	130.05	120.28
1	a6	64	ALA	C-N-CA	7.29	130.05	120.28
1	as	120	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	12	154	ARG	O-C-N	-7.29	114.71	123.10
1	ax	77	ALA	N-CA-C	7.29	119.31	111.36
1	b0	137	GLY	CA-C-O	7.29	128.26	120.75
1	b6	169	TYR	CA-C-N	7.29	129.92	120.44
1	b6	169	TYR	C-N-CA	7.29	129.92	120.44
1	bh	61	GLY	CA-C-N	7.29	132.72	122.36
1	bh	61	GLY	C-N-CA	7.29	132.72	122.36
1	bX	145	TYR	O-C-N	-7.29	112.80	122.28
1	c5	161	PHE	CA-C-N	7.29	130.05	120.28
1	c5	161	PHE	C-N-CA	7.29	130.05	120.28
1	1d	92	GLU	CA-C-N	7.29	128.96	119.84
1	1d	92	GLU	C-N-CA	7.29	128.96	119.84
1	ci	118	MET	N-CA-C	7.29	121.93	112.89
1	em	56	LEU	N-CA-C	7.29	119.02	111.14
1	eK	140	LYS	N-CA-CB	7.29	120.84	110.12
1	fC	214	MET	CA-C-N	7.29	129.92	120.44
1	fC	214	MET	C-N-CA	7.29	129.92	120.44
1	fM	58	THR	CA-C-N	7.29	130.45	120.46
1	fM	58	THR	C-N-CA	7.29	130.45	120.46
1	n	192	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	z	41	SER	N-CA-C	7.29	119.23	111.28
1	W	81	ASP	N-CA-C	7.29	118.88	111.07
1	1E	63	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	1G	87	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	1I	117	TRP	N-CA-C	7.29	119.31	111.36
1	hM	143	ARG	NH1-CZ-NH2	-7.29	109.82	119.30
1	i6	11	VAL	N-CA-C	-7.29	100.19	109.30
1	iw	214	MET	N-CA-C	7.29	119.23	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ja	169	TYR	O-C-N	-7.29	114.56	122.07
1	jl	55	MET	O-C-N	-7.29	114.39	122.12
1	ju	26	VAL	N-CA-C	7.29	118.06	110.62
1	1Y	63	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	ko	42	ALA	O-C-N	-7.29	114.56	122.07
1	26	230	VAL	CA-C-O	-7.29	114.29	121.58
1	2a	111	LEU	N-CA-C	7.29	123.33	111.37
1	2c	81	ASP	CA-CB-CG	7.29	119.89	112.60
1	2d	11	VAL	CA-C-O	-7.29	112.73	120.39
1	31	181	VAL	N-CA-C	7.29	118.06	110.62
1	38	35	GLU	CA-C-N	7.29	130.45	120.46
1	38	35	GLU	C-N-CA	7.29	130.45	120.46
1	3s	179	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	3O	47	ALA	N-CA-C	7.29	120.52	110.24
1	40	159	GLU	CA-C-O	-7.29	113.27	119.76
1	41	75	GLU	N-CA-C	7.29	118.87	111.07
1	4K	24	VAL	N-CA-C	7.29	118.93	110.62
1	5G	63	GLN	N-CA-C	7.29	121.28	112.38
1	5U	154	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	5X	167	ARG	NH1-CZ-NH2	-7.29	109.82	119.30
1	6z	46	GLY	CA-C-O	7.29	128.29	119.10
1	8g	212	GLU	O-C-N	-7.29	114.51	122.09
1	8H	16	SER	CA-C-N	7.29	126.92	119.19
1	8H	16	SER	C-N-CA	7.29	126.92	119.19
1	8K	36	VAL	CA-C-N	7.29	127.43	120.43
1	8K	36	VAL	C-N-CA	7.29	127.43	120.43
1	8K	139	ASN	OD1-CG-ND2	7.29	129.89	122.60
1	8K	194	ALA	N-CA-CB	7.29	121.53	110.45
1	9t	36	VAL	CA-C-N	7.29	126.16	120.33
1	9t	36	VAL	C-N-CA	7.29	126.16	120.33
1	9v	55	MET	CA-C-N	7.29	129.92	120.44
1	9v	55	MET	C-N-CA	7.29	129.92	120.44
1	9L	203	LYS	N-CA-C	7.29	119.23	111.28
1	9T	172	LEU	CA-C-N	7.29	129.92	120.44
1	9T	172	LEU	C-N-CA	7.29	129.92	120.44
1	an	65	ALA	CA-C-N	7.29	129.92	120.44
1	an	65	ALA	C-N-CA	7.29	129.92	120.44
1	aF	32	PHE	CA-CB-CG	-7.29	106.51	113.80
1	b6	62	HIS	CB-CG-CD2	-7.29	121.72	131.20
1	be	62	HIS	N-CA-C	7.29	121.46	111.54
1	bP	113	GLU	CA-C-N	7.29	130.05	120.28
1	bP	113	GLU	C-N-CA	7.29	130.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c2	98	GLU	CA-C-N	7.29	127.05	119.76
1	c2	98	GLU	C-N-CA	7.29	127.05	119.76
1	c7	63	GLN	O-C-N	-7.29	114.39	122.12
1	cl	113	GLU	CA-C-N	7.29	129.92	120.44
1	cl	113	GLU	C-N-CA	7.29	129.92	120.44
1	1e	139	ASN	CB-CA-C	7.29	122.48	110.81
1	cu	139	ASN	OD1-CG-ND2	-7.29	115.31	122.60
1	cv	159	GLU	CA-C-O	-7.29	112.86	119.86
1	cV	159	GLU	CA-C-N	7.29	127.33	119.89
1	cV	159	GLU	C-N-CA	7.29	127.33	119.89
1	cZ	36	VAL	CA-C-N	7.29	127.43	120.43
1	cZ	36	VAL	C-N-CA	7.29	127.43	120.43
1	dQ	212	GLU	CA-C-N	7.29	129.92	120.44
1	dQ	212	GLU	C-N-CA	7.29	129.92	120.44
1	dY	210	THR	N-CA-C	7.29	120.27	110.35
1	ej	53	ASN	CA-CB-CG	-7.29	105.31	112.60
1	eA	88	ALA	O-C-N	-7.29	114.94	123.25
1	eU	175	GLU	CA-C-O	7.29	128.38	120.43
1	eX	183	ASN	CA-CB-CG	-7.29	105.31	112.60
1	f5	166	ASP	CA-C-N	7.29	130.38	120.54
1	f5	166	ASP	C-N-CA	7.29	130.38	120.54
1	fq	183	ASN	N-CA-C	7.29	119.23	111.28
1	j	155	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	9	226	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	g9	68	MET	N-CA-C	7.29	119.01	111.14
1	gj	133	TRP	CB-CG-CD2	-7.29	116.59	126.80
1	1N	118	MET	N-CA-C	7.29	122.27	113.23
1	j8	164	TYR	N-CA-C	7.29	118.87	111.07
1	jd	167	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	lk	139	ASN	CB-CG-ND2	7.29	127.33	116.40
1	2q	53	ASN	CA-CB-CG	-7.29	105.31	112.60
1	2J	162	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	4M	95	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	4N	82	ARG	CA-C-N	7.29	130.27	120.65
1	4N	82	ARG	C-N-CA	7.29	130.27	120.65
1	58	5	ASN	CA-CB-CG	-7.29	105.31	112.60
1	5q	224	PRO	N-CA-CB	7.29	109.44	103.32
1	6e	225	GLY	CA-C-N	7.29	133.71	123.07
1	6e	225	GLY	C-N-CA	7.29	133.71	123.07
1	6f	111	LEU	N-CA-C	7.29	118.87	111.07
1	6y	160	PRO	N-CA-CB	-7.29	96.55	103.33
1	7R	199	LYS	O-C-N	-7.29	114.39	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7U	7	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	8e	171	THR	CA-C-N	7.29	130.05	120.28
1	8e	171	THR	C-N-CA	7.29	130.05	120.28
1	8B	184	TRP	N-CA-C	7.29	119.23	111.28
1	9T	13	GLN	N-CA-C	7.29	121.33	109.59
1	aH	208	ALA	CA-C-N	7.29	131.47	121.05
1	aH	208	ALA	C-N-CA	7.29	131.47	121.05
1	bv	10	MET	CA-C-O	7.29	128.89	120.80
1	bV	51	ASP	N-CA-C	7.29	118.87	111.07
1	ch	84	HIS	CA-C-O	-7.29	113.65	119.99
1	d9	86	VAL	CA-C-N	7.29	133.19	120.87
1	d9	86	VAL	C-N-CA	7.29	133.19	120.87
1	eU	201	ILE	N-CA-CB	7.29	119.08	110.55
1	fJ	149	SER	N-CA-C	7.29	120.80	110.23
1	D	83	LEU	N-CA-C	7.29	118.87	111.07
1	5	95	GLN	O-C-N	-7.29	113.75	123.23
1	ga	65	ALA	N-CA-C	7.29	120.66	111.69
1	gL	116	GLY	CA-C-N	7.29	131.39	120.31
1	gL	116	GLY	C-N-CA	7.29	131.39	120.31
1	hf	135	ILE	CA-C-N	7.29	130.64	120.29
1	hf	135	ILE	C-N-CA	7.29	130.64	120.29
1	hp	81	ASP	CA-CB-CG	7.29	119.89	112.60
1	hz	161	PHE	O-C-N	-7.29	114.39	122.12
1	i6	104	ILE	CB-CA-C	-7.29	102.30	112.14
1	i8	120	HIS	CA-CB-CG	7.29	121.09	113.80
1	ie	169	TYR	CA-C-N	7.29	129.91	120.44
1	ie	169	TYR	C-N-CA	7.29	129.91	120.44
1	jN	104	ILE	CA-C-N	7.29	130.78	120.28
1	jN	104	ILE	C-N-CA	7.29	130.78	120.28
1	kH	97	ARG	NE-CZ-NH2	7.29	125.76	119.20
1	l0	226	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	l1	13	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	2o	133	TRP	O-C-N	-7.29	114.39	122.12
1	2G	228	ALA	N-CA-C	7.29	122.73	109.32
1	2M	180	GLU	N-CA-C	7.29	120.28	111.82
1	2Y	230	VAL	N-CA-C	7.29	118.99	107.98
1	3q	87	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	3L	69	LEU	O-C-N	-7.29	114.56	122.07
1	5O	37	ILE	O-C-N	-7.29	115.75	120.42
1	6q	173	ARG	N-CA-C	7.29	119.22	111.28
1	6K	167	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	75	69	LEU	CA-C-N	7.29	130.92	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	75	69	LEU	C-N-CA	7.29	130.92	120.79
1	7p	43	LEU	O-C-N	-7.29	114.39	122.12
1	7F	195	ASN	CA-CB-CG	7.29	119.89	112.60
1	7L	56	LEU	O-C-N	-7.29	114.39	122.12
1	7W	175	GLU	O-C-N	-7.29	113.84	122.81
1	85	141	ILE	N-CA-C	7.29	118.93	110.62
1	8t	27	VAL	O-C-N	-7.29	114.80	121.87
1	8W	25	LYS	O-C-N	7.29	129.67	122.09
1	9C	179	GLN	N-CA-C	7.29	120.09	111.71
1	aa	171	THR	CA-C-N	7.29	130.64	120.29
1	aa	171	THR	C-N-CA	7.29	130.64	120.29
1	ak	39	MET	N-CA-C	7.29	118.87	111.07
1	at	193	ASN	CA-CB-CG	-7.29	105.31	112.60
1	12	98	GLU	O-C-N	-7.29	113.27	121.43
1	bJ	25	LYS	N-CA-C	7.29	119.22	111.28
1	cW	133	TRP	N-CA-CB	7.29	120.58	110.01
1	d7	5	ASN	CA-C-N	7.29	130.05	120.28
1	d7	5	ASN	C-N-CA	7.29	130.05	120.28
1	d9	51	ASP	CA-CB-CG	-7.29	105.31	112.60
1	eh	204	ALA	N-CA-C	7.29	118.87	111.07
1	ek	112	GLN	O-C-N	-7.29	114.39	122.12
1	eB	161	PHE	N-CA-CB	-7.29	105.86	114.17
1	eT	78	ALA	CA-C-N	7.29	129.92	120.44
1	eT	78	ALA	C-N-CA	7.29	129.92	120.44
1	l	120	HIS	N-CA-CB	-7.29	100.38	110.29
1	y	225	GLY	CA-C-N	7.29	131.76	120.75
1	y	225	GLY	C-N-CA	7.29	131.76	120.75
1	3	222	GLY	O-C-N	-7.29	115.85	122.77
1	L	92	GLU	CB-CA-C	7.29	120.09	109.09
1	P	85	PRO	O-C-N	7.29	131.39	123.01
1	gd	87	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	gC	59	VAL	O-C-N	-7.29	114.73	122.67
1	h4	130	TYR	CA-C-N	7.29	129.91	120.44
1	h4	130	TYR	C-N-CA	7.29	129.91	120.44
1	hO	120	HIS	CB-CG-ND1	7.29	133.63	122.70
1	iO	12	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	jQ	125	PRO	CA-C-N	7.29	130.80	120.53
1	jQ	125	PRO	C-N-CA	7.29	130.80	120.53
1	kn	99	PRO	CB-CA-C	7.29	119.50	111.56
1	l0	190	LEU	N-CA-CB	-7.29	99.13	110.06
1	lm	173	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	2x	10	MET	N-CA-C	7.29	121.06	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	37	ILE	N-CA-CB	7.29	116.13	110.45
1	3t	228	ALA	CA-C-N	7.29	131.06	120.71
1	3t	228	ALA	C-N-CA	7.29	131.06	120.71
1	4C	161	PHE	CA-C-N	7.29	129.91	120.44
1	4C	161	PHE	C-N-CA	7.29	129.91	120.44
1	5j	112	GLN	OE1-CD-NE2	-7.29	115.31	122.60
1	6t	62	HIS	CB-CG-ND1	-7.29	111.77	122.70
1	6E	194	ALA	CA-C-N	7.29	131.08	120.51
1	6E	194	ALA	C-N-CA	7.29	131.08	120.51
1	7C	82	ARG	N-CA-C	7.29	118.87	111.07
1	8G	60	GLY	CA-C-N	7.29	129.82	120.64
1	8G	60	GLY	C-N-CA	7.29	129.82	120.64
1	9f	202	LEU	CA-C-N	7.29	131.39	120.31
1	9f	202	LEU	C-N-CA	7.29	131.39	120.31
1	9D	67	GLN	N-CA-CB	7.29	120.58	110.01
1	9M	173	ARG	N-CA-CB	7.29	120.58	110.01
1	b6	45	GLU	N-CA-C	7.29	120.96	110.10
1	cz	215	MET	O-C-N	-7.29	114.39	122.12
1	1h	21	ASN	CA-C-O	7.29	128.14	120.42
1	1z	132	ARG	N-CA-C	7.29	118.87	111.07
1	g2	121	ASN	CA-C-O	-7.29	110.36	119.54
1	g3	173	ARG	CA-C-N	7.29	130.04	120.28
1	g3	173	ARG	C-N-CA	7.29	130.04	120.28
1	u	9	GLN	OE1-CD-NE2	7.29	129.89	122.60
1	hk	186	THR	N-CA-CB	7.29	121.52	110.30
1	hy	113	GLU	CB-CG-CD	-7.29	100.22	112.60
1	ix	63	GLN	N-CA-C	7.29	120.27	111.82
1	iG	36	VAL	O-C-N	-7.29	114.80	121.87
1	iX	51	ASP	CA-CB-CG	7.29	119.89	112.60
1	j4	56	LEU	CA-C-N	7.29	133.07	120.68
1	j4	56	LEU	C-N-CA	7.29	133.07	120.68
1	jU	165	VAL	CA-C-N	7.29	130.27	120.65
1	jU	165	VAL	C-N-CA	7.29	130.27	120.65
1	kh	58	THR	OG1-CB-CG2	-7.29	94.73	109.30
1	kj	126	VAL	N-CA-C	7.29	118.92	110.62
1	22	162	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	kL	79	GLU	CA-C-N	7.29	129.91	120.44
1	kL	79	GLU	C-N-CA	7.29	129.91	120.44
1	l0	143	ARG	NE-CZ-NH2	7.29	125.76	119.20
1	2k	65	ALA	O-C-N	-7.29	113.31	122.27
1	2s	162	ARG	NE-CZ-NH1	7.29	128.79	121.50
1	2v	162	ARG	NE-CZ-NH1	7.29	128.79	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	36	VAL	CA-C-O	7.29	127.57	119.92
1	3y	210	THR	CA-CB-OG1	7.29	120.53	109.60
1	3C	92	GLU	N-CA-C	7.29	120.12	110.36
1	3Y	101	GLY	CA-C-N	7.29	129.91	120.44
1	3Y	101	GLY	C-N-CA	7.29	129.91	120.44
1	55	205	LEU	CA-C-N	7.29	133.31	121.87
1	55	205	LEU	C-N-CA	7.29	133.31	121.87
1	7i	143	ARG	NE-CZ-NH2	-7.29	112.64	119.20
1	7z	2	ILE	O-C-N	-7.29	115.12	122.62
1	7U	199	LYS	N-CA-C	7.29	120.14	111.33
1	8v	26	VAL	N-CA-C	7.29	118.05	110.62
1	95	148	THR	CA-C-N	7.29	135.06	122.82
1	95	148	THR	C-N-CA	7.29	135.06	122.82
1	az	37	ILE	O-C-N	-7.29	115.76	120.42
1	aC	152	ASP	CA-CB-CG	-7.29	105.31	112.60
1	aY	23	TRP	N-CA-C	7.29	118.87	111.07
1	bw	92	GLU	N-CA-C	7.29	118.53	109.57
1	bM	40	PHE	CA-CB-CG	7.29	121.08	113.80
1	c4	222	GLY	CA-C-N	7.29	133.31	121.87
1	c4	222	GLY	C-N-CA	7.29	133.31	121.87
1	c8	18	ARG	NE-CZ-NH1	7.29	128.78	121.50
1	ce	210	THR	CA-CB-OG1	7.29	120.53	109.60
1	cu	120	HIS	CE1-NE2-CD2	-7.29	101.72	109.00
1	cy	76	GLU	CA-C-N	7.29	130.04	120.28
1	cy	76	GLU	C-N-CA	7.29	130.04	120.28
1	cy	229	ARG	O-C-N	7.29	131.23	122.27
1	1f	115	ILE	O-C-N	-7.29	114.32	121.90
1	dP	78	ALA	CA-C-N	7.29	130.64	120.29
1	dP	78	ALA	C-N-CA	7.29	130.64	120.29
1	ed	9	GLN	O-C-N	-7.29	114.72	123.10
1	ft	162	ARG	CA-C-N	7.29	130.04	120.28
1	ft	162	ARG	C-N-CA	7.29	130.04	120.28
1	g3	87	HIS	CE1-NE2-CD2	-7.29	101.71	109.00
1	g5	197	ASP	O-C-N	-7.29	114.22	122.09
1	n	194	ALA	N-CA-CB	-7.29	100.40	110.38
1	D	205	LEU	N-CA-C	7.29	118.86	111.07
1	6	82	ARG	NE-CZ-NH1	-7.29	114.21	121.50
1	g9	12	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	1G	51	ASP	N-CA-C	7.28	119.01	111.14
1	1M	168	PHE	N-CA-C	7.28	118.86	111.07
1	i8	76	GLU	CA-C-N	7.28	130.63	120.29
1	i8	76	GLU	C-N-CA	7.28	130.63	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	53	ASN	O-C-N	-7.28	114.40	122.12
1	iR	56	LEU	CA-C-O	7.28	128.47	120.82
1	j4	195	ASN	O-C-N	-7.28	113.52	121.53
1	jJ	41	SER	CA-C-N	7.28	130.63	120.29
1	jJ	41	SER	C-N-CA	7.28	130.63	120.29
1	jO	151	LEU	N-CA-CB	7.28	120.70	109.85
1	k0	80	TRP	N-CA-C	7.28	118.86	111.07
1	l4	141	ILE	N-CA-CB	7.28	118.59	110.51
1	lL	120	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	lM	23	TRP	CA-C-N	7.28	130.76	120.42
1	lM	23	TRP	C-N-CA	7.28	130.76	120.42
1	2u	86	VAL	CA-C-N	7.28	131.53	120.82
1	2u	86	VAL	C-N-CA	7.28	131.53	120.82
1	2J	70	LYS	CA-C-N	7.28	130.77	120.28
1	2J	70	LYS	C-N-CA	7.28	130.77	120.28
1	2K	170	LYS	O-C-N	-7.28	113.31	122.27
1	2M	222	GLY	CA-C-N	7.28	133.30	121.87
1	2M	222	GLY	C-N-CA	7.28	133.30	121.87
1	4z	84	HIS	O-C-N	-7.28	116.75	121.85
1	4C	39	MET	CA-C-N	7.28	130.04	120.28
1	4C	39	MET	C-N-CA	7.28	130.04	120.28
1	4V	102	SER	N-CA-CB	7.28	120.83	110.12
1	5a	144	MET	N-CA-C	7.28	119.30	111.36
1	5S	103	ASP	CA-CB-CG	-7.28	105.32	112.60
1	6w	180	GLU	O-C-N	-7.28	114.40	122.12
1	73	80	TRP	CA-C-O	7.28	128.27	120.55
1	7H	37	ILE	CA-C-O	-7.28	112.66	118.85
1	8q	73	ILE	O-C-N	7.28	128.94	121.87
1	8A	146	SER	N-CA-C	7.28	117.98	109.60
1	90	159	GLU	CA-C-N	7.28	127.45	120.31
1	90	159	GLU	C-N-CA	7.28	127.45	120.31
1	9D	16	SER	CA-C-N	7.28	127.29	119.28
1	9D	16	SER	C-N-CA	7.28	127.29	119.28
1	ac	114	GLN	O-C-N	-7.28	114.40	122.12
1	as	183	ASN	N-CA-C	7.28	119.22	111.28
1	aT	72	THR	CA-C-N	7.28	129.74	120.56
1	aT	72	THR	C-N-CA	7.28	129.74	120.56
1	bb	209	ALA	N-CA-CB	7.28	120.83	109.83
1	cy	173	ARG	O-C-N	-7.28	113.70	122.22
1	dc	100	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	e5	140	LYS	CA-C-N	7.28	130.00	120.60
1	e5	140	LYS	C-N-CA	7.28	130.00	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	24	VAL	CB-CA-C	-7.28	102.65	111.97
1	eP	157	PRO	N-CA-CB	-7.28	95.60	103.25
1	fu	211	LEU	CA-C-O	-7.28	112.83	120.55
1	fI	126	VAL	N-CA-C	7.28	118.92	110.62
1	gg	83	LEU	N-CA-C	7.28	119.22	111.28
1	gl	199	LYS	CA-C-N	7.28	130.04	120.28
1	gl	199	LYS	C-N-CA	7.28	130.04	120.28
1	gC	19	THR	O-C-N	-7.28	114.40	122.12
1	hn	101	GLY	N-CA-C	7.28	122.78	113.24
1	hq	18	ARG	CA-C-N	7.28	129.91	120.44
1	hq	18	ARG	C-N-CA	7.28	129.91	120.44
1	ij	122	PRO	N-CA-C	7.28	119.58	110.70
1	iR	67	GLN	CA-C-O	-7.28	112.83	120.55
1	kU	45	GLU	CB-CG-CD	7.28	124.98	112.60
1	3n	62	HIS	ND1-CG-CD2	7.28	113.38	106.10
1	3J	144	MET	N-CA-C	7.28	121.42	112.54
1	3M	206	GLY	CA-C-N	7.28	127.72	119.93
1	3M	206	GLY	C-N-CA	7.28	127.72	119.93
1	3W	11	VAL	CB-CA-C	-7.28	100.43	110.77
1	44	139	ASN	OD1-CG-ND2	-7.28	115.32	122.60
1	4F	169	TYR	N-CA-C	7.28	120.14	111.33
1	5w	117	TRP	O-C-N	-7.28	113.85	122.15
1	5z	134	ILE	N-CA-C	7.28	117.41	110.42
1	5N	89	GLY	CA-C-N	7.28	128.94	119.84
1	5N	89	GLY	C-N-CA	7.28	128.94	119.84
1	68	230	VAL	CA-C-O	7.28	129.19	120.67
1	6m	162	ARG	NH1-CZ-NH2	-7.28	109.83	119.30
1	6p	28	GLU	O-C-N	-7.28	114.40	122.12
1	6O	70	LYS	O-C-N	-7.28	114.40	122.12
1	6X	166	ASP	CB-CA-C	7.28	122.46	110.81
1	7n	183	ASN	CA-CB-CG	-7.28	105.32	112.60
1	7s	37	ILE	O-C-N	-7.28	112.80	121.10
1	8C	13	GLN	CA-C-N	7.28	132.37	120.94
1	8C	13	GLN	C-N-CA	7.28	132.37	120.94
1	8J	28	GLU	N-CA-C	7.28	118.86	111.07
1	ar	174	ALA	CA-C-N	7.28	132.37	120.94
1	ar	174	ALA	C-N-CA	7.28	132.37	120.94
1	b7	87	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	bp	28	GLU	N-CA-C	7.28	120.63	111.24
1	bS	59	VAL	N-CA-C	7.28	119.20	109.37
1	c3	126	VAL	O-C-N	-7.28	112.51	122.05
1	cc	163	ASP	N-CA-CB	-7.28	99.35	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cG	31	ALA	N-CA-C	7.28	118.78	108.00
1	cS	15	ILE	CA-C-N	7.28	131.07	120.51
1	cS	15	ILE	C-N-CA	7.28	131.07	120.51
1	dT	23	TRP	N-CA-C	7.28	119.22	111.28
1	fc	159	GLU	CA-C-O	-7.28	113.59	119.71
1	a	73	ILE	CA-C-N	7.28	130.04	120.28
1	a	73	ILE	C-N-CA	7.28	130.04	120.28
1	3	16	SER	CA-C-O	-7.28	113.93	119.32
1	5	162	ARG	CA-C-N	7.28	130.04	120.28
1	5	162	ARG	C-N-CA	7.28	130.04	120.28
1	gA	62	HIS	ND1-CG-CD2	7.28	113.38	106.10
1	gS	111	LEU	CA-C-O	7.28	128.27	120.55
1	hA	198	CYS	CA-C-N	7.28	130.04	120.28
1	hA	198	CYS	C-N-CA	7.28	130.04	120.28
1	i9	80	TRP	CB-CG-CD2	-7.28	116.61	126.80
1	iy	3	VAL	CA-C-N	7.28	134.00	122.21
1	iy	3	VAL	C-N-CA	7.28	134.00	122.21
1	jf	154	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	jl	173	ARG	NE-CZ-NH2	7.28	125.75	119.20
1	js	208	ALA	N-CA-CB	-7.28	99.03	110.46
1	kd	27	VAL	N-CA-CB	7.28	121.50	110.58
1	kh	195	ASN	CA-CB-CG	7.28	119.88	112.60
1	kB	154	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	kT	32	PHE	CA-CB-CG	-7.28	106.52	113.80
1	29	229	ARG	NH1-CZ-NH2	-7.28	109.83	119.30
1	2d	143	ARG	NE-CZ-NH2	-7.28	112.65	119.20
1	2i	121	ASN	CA-CB-CG	-7.28	105.32	112.60
1	2w	41	SER	N-CA-C	7.28	119.22	111.28
1	3n	7	GLN	CB-CA-C	7.28	121.81	109.72
1	40	194	ALA	CA-C-N	7.28	130.51	120.39
1	40	194	ALA	C-N-CA	7.28	130.51	120.39
1	4p	55	MET	O-C-N	-7.28	114.40	122.12
1	4C	21	ASN	CA-CB-CG	-7.28	105.32	112.60
1	5U	84	HIS	CA-CB-CG	7.28	121.08	113.80
1	62	85	PRO	N-CA-CB	-7.28	96.09	103.15
1	68	98	GLU	CA-C-O	-7.28	113.85	119.46
1	6q	112	GLN	N-CA-C	7.28	119.85	111.11
1	6V	32	PHE	O-C-N	-7.28	114.39	123.05
1	7z	29	GLU	N-CA-C	7.28	119.30	111.36
1	7Y	101	GLY	N-CA-C	7.28	122.95	113.27
1	80	189	LEU	CA-C-N	7.28	129.91	120.44
1	80	189	LEU	C-N-CA	7.28	129.91	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8x	2	ILE	O-C-N	-7.28	115.53	123.18
1	9C	115	ILE	N-CA-C	7.28	118.05	110.62
1	an	18	ARG	N-CA-C	7.28	119.30	111.36
1	ap	136	LEU	CA-C-N	7.28	128.02	119.94
1	ap	136	LEU	C-N-CA	7.28	128.02	119.94
1	b0	216	THR	N-CA-CB	7.28	120.79	110.67
1	bo	170	LYS	N-CA-C	7.28	118.86	111.07
1	c4	55	MET	N-CA-C	7.28	118.86	111.07
1	cE	73	ILE	CB-CA-C	-7.28	102.17	112.22
1	1i	66	MET	N-CA-C	7.28	119.22	111.28
1	di	166	ASP	N-CA-CB	-7.28	99.09	109.94
1	dw	112	GLN	N-CA-C	7.28	120.14	111.33
1	dz	229	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	dL	224	PRO	O-C-N	-7.28	112.81	122.64
1	1o	40	PHE	CA-CB-CG	7.28	121.08	113.80
1	er	15	ILE	N-CA-C	7.28	118.84	109.30
1	1s	96	MET	N-CA-C	7.28	120.95	110.10
1	t	117	TRP	N-CA-C	7.28	119.85	111.11
1	5	124	ILE	O-C-N	-7.28	112.80	121.10
1	h8	59	VAL	N-CA-C	7.28	117.37	110.53
1	i8	141	ILE	N-CA-C	7.28	118.04	110.62
1	iI	229	ARG	N-CA-C	7.28	121.71	111.52
1	iY	138	LEU	CA-C-N	7.28	130.63	120.29
1	iY	138	LEU	C-N-CA	7.28	130.63	120.29
1	jR	139	ASN	OD1-CG-ND2	-7.28	115.32	122.60
1	k2	117	TRP	CE2-CD2-CE3	7.28	126.08	118.80
1	kC	226	HIS	CB-CG-CD2	-7.28	121.74	131.20
1	6z	40	PHE	CA-C-N	7.28	129.90	120.44
1	6z	40	PHE	C-N-CA	7.28	129.90	120.44
1	7e	151	LEU	N-CA-C	7.28	119.21	111.28
1	7p	168	PHE	N-CA-C	-7.28	103.28	111.07
1	8S	110	THR	CA-C-O	-7.28	113.01	121.16
1	9y	22	ALA	CA-C-N	7.28	129.90	120.44
1	9y	22	ALA	C-N-CA	7.28	129.90	120.44
1	9I	165	VAL	N-CA-C	7.28	117.37	110.53
1	a2	59	VAL	CA-C-O	7.28	129.71	120.76
1	aF	172	LEU	O-C-N	-7.28	114.57	122.07
1	ba	40	PHE	N-CA-C	7.28	118.86	111.07
1	1e	100	ARG	CA-C-N	7.28	128.18	120.03
1	1e	100	ARG	C-N-CA	7.28	128.18	120.03
1	cA	195	ASN	O-C-N	-7.28	113.88	121.60
1	cD	150	ILE	CA-C-N	7.28	131.01	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cD	150	ILE	C-N-CA	7.28	131.01	120.38
1	dG	159	GLU	O-C-N	-7.28	114.82	121.30
1	ed	22	ALA	CA-C-N	7.28	129.90	120.44
1	ed	22	ALA	C-N-CA	7.28	129.90	120.44
1	ge	217	ALA	N-CA-C	7.28	120.50	110.24
1	hf	121	ASN	CA-CB-CG	7.28	119.88	112.60
1	hP	162	ARG	NE-CZ-NH2	7.28	125.75	119.20
1	ib	103	ASP	CA-CB-CG	-7.28	105.32	112.60
1	jO	143	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	21	120	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	kE	130	TYR	CA-C-N	7.28	129.90	120.44
1	kE	130	TYR	C-N-CA	7.28	129.90	120.44
1	kH	15	ILE	N-CA-C	7.28	119.19	109.37
1	la	210	THR	CA-CB-OG1	7.28	120.52	109.60
1	lO	48	THR	N-CA-CB	7.28	120.58	110.03
1	2v	229	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	2F	120	HIS	N-CA-CB	7.28	120.19	110.29
1	2S	223	GLY	CA-C-N	7.28	126.91	119.19
1	2S	223	GLY	C-N-CA	7.28	126.91	119.19
1	2T	139	ASN	CA-CB-CG	-7.28	105.32	112.60
1	4k	30	LYS	O-C-N	-7.28	113.67	122.48
1	4S	83	LEU	N-CA-C	7.28	119.84	111.11
1	5a	126	VAL	CA-C-N	7.28	128.02	119.94
1	5a	126	VAL	C-N-CA	7.28	128.02	119.94
1	5k	34	PRO	CA-C-N	7.28	130.76	120.28
1	5k	34	PRO	C-N-CA	7.28	130.76	120.28
1	5n	50	GLN	N-CA-C	7.28	119.29	111.36
1	5R	144	MET	CA-C-O	7.28	128.26	120.55
1	5S	229	ARG	NE-CZ-NH1	7.28	128.78	121.50
1	6E	180	GLU	N-CA-C	7.28	119.21	111.28
1	6L	23	TRP	CA-C-N	7.28	129.73	120.56
1	6L	23	TRP	C-N-CA	7.28	129.73	120.56
1	7V	143	ARG	CA-C-N	7.28	130.03	120.28
1	7V	143	ARG	C-N-CA	7.28	130.03	120.28
1	9a	84	HIS	CA-CB-CG	-7.28	106.52	113.80
1	9E	133	TRP	N-CA-C	7.28	118.86	111.07
1	aJ	40	PHE	N-CA-C	7.28	119.21	111.28
1	bh	104	ILE	CB-CA-C	7.28	121.97	112.14
1	bw	90	PRO	CA-C-N	7.28	131.47	122.37
1	bw	90	PRO	C-N-CA	7.28	131.47	122.37
1	c9	152	ASP	CA-CB-CG	-7.28	105.32	112.60
1	cr	102	SER	O-C-N	-7.28	113.70	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cS	136	LEU	CA-C-N	7.28	128.06	119.98
1	cS	136	LEU	C-N-CA	7.28	128.06	119.98
1	d6	45	GLU	N-CA-C	7.28	119.63	109.15
1	ei	134	ILE	N-CA-C	7.28	117.37	110.53
1	ey	99	PRO	O-C-N	-7.28	114.95	123.10
1	eA	129	ILE	N-CA-C	7.28	117.41	110.42
1	eI	145	TYR	N-CA-CB	7.28	120.93	110.16
1	fr	88	ALA	N-CA-C	7.28	120.78	110.23
1	a	197	ASP	N-CA-C	7.28	118.86	111.07
1	z	96	MET	N-CA-CB	-7.28	99.27	109.97
1	F	76	GLU	N-CA-C	7.28	119.29	111.36
1	gi	213	GLU	N-CA-C	7.28	119.21	111.28
1	id	91	ILE	O-C-N	-7.28	114.78	122.57
1	1P	40	PHE	CA-CB-CG	-7.28	106.53	113.80
1	1P	163	ASP	CA-C-O	7.28	128.32	120.24
1	iv	98	GLU	CA-C-O	-7.28	112.52	119.80
1	iC	115	ILE	N-CA-C	7.28	117.40	110.42
1	jP	222	GLY	O-C-N	-7.28	114.89	122.68
1	k5	190	LEU	CA-C-N	7.28	130.75	120.42
1	k5	190	LEU	C-N-CA	7.28	130.75	120.42
1	ka	59	VAL	CA-CB-CG2	-7.28	98.03	110.40
1	kU	12	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	kV	93	PRO	CA-C-N	7.28	131.10	120.11
1	kV	93	PRO	C-N-CA	7.28	131.10	120.11
1	l8	77	ALA	N-CA-C	7.28	118.86	111.07
1	lP	102	SER	CA-C-O	7.28	128.26	120.55
1	34	196	PRO	CA-C-N	7.28	130.62	120.29
1	34	196	PRO	C-N-CA	7.28	130.62	120.29
1	40	81	ASP	CA-C-N	7.28	130.03	120.28
1	40	81	ASP	C-N-CA	7.28	130.03	120.28
1	44	84	HIS	ND1-CE1-NE2	7.28	115.68	108.40
1	4p	146	SER	N-CA-C	7.28	120.19	109.50
1	4K	134	ILE	O-C-N	-7.28	114.34	121.83
1	5j	166	ASP	O-C-N	-7.28	114.46	122.03
1	5s	127	GLY	O-C-N	-7.28	114.35	122.28
1	5t	160	PRO	CA-C-N	7.28	130.35	120.38
1	5t	160	PRO	C-N-CA	7.28	130.35	120.38
1	5K	128	GLU	N-CA-C	7.28	119.84	111.11
1	6Y	166	ASP	CA-CB-CG	7.28	119.88	112.60
1	7l	18	ARG	NH1-CZ-NH2	-7.28	109.84	119.30
1	7N	164	TYR	CA-C-N	7.28	129.73	120.56
1	7N	164	TYR	C-N-CA	7.28	129.73	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7R	69	LEU	O-C-N	-7.28	114.52	122.09
1	7R	198	CYS	N-CA-C	7.28	118.86	111.07
1	8l	166	ASP	N-CA-CB	-7.28	99.39	110.16
1	8o	81	ASP	CA-C-N	7.28	130.34	120.44
1	8o	81	ASP	C-N-CA	7.28	130.34	120.44
1	8s	194	ALA	CA-C-N	7.28	131.06	120.51
1	8s	194	ALA	C-N-CA	7.28	131.06	120.51
1	8J	120	HIS	CA-CB-CG	-7.28	106.53	113.80
1	8P	101	GLY	O-C-N	-7.28	115.11	122.17
1	8Q	112	GLN	N-CA-C	7.28	119.21	111.28
1	as	164	TYR	N-CA-C	7.28	119.21	111.28
1	ax	78	ALA	CA-C-N	7.28	130.03	120.28
1	ax	78	ALA	C-N-CA	7.28	130.03	120.28
1	aX	112	GLN	N-CA-C	7.28	119.21	111.28
1	b4	113	GLU	N-CA-C	7.28	119.21	111.28
1	d0	53	ASN	OD1-CG-ND2	-7.28	115.33	122.60
1	dc	173	ARG	CA-C-N	7.28	130.62	120.29
1	dc	173	ARG	C-N-CA	7.28	130.62	120.29
1	dg	159	GLU	CA-C-N	7.28	128.94	119.84
1	dg	159	GLU	C-N-CA	7.28	128.94	119.84
1	dH	98	GLU	CA-C-N	7.28	128.94	119.84
1	dH	98	GLU	C-N-CA	7.28	128.94	119.84
1	dL	84	HIS	CE1-NE2-CD2	-7.28	101.72	109.00
1	e1	185	MET	N-CA-C	7.28	119.21	111.28
1	e5	197	ASP	CA-C-N	7.28	130.36	120.54
1	e5	197	ASP	C-N-CA	7.28	130.36	120.54
1	eh	195	ASN	O-C-N	-7.28	113.89	121.60
1	eR	163	ASP	CA-C-N	7.28	130.03	120.28
1	eR	163	ASP	C-N-CA	7.28	130.03	120.28
1	fr	100	ARG	NH1-CZ-NH2	7.28	128.76	119.30
1	fE	198	CYS	N-CA-CB	7.28	120.81	110.12
1	fJ	39	MET	CG-SD-CE	-7.28	84.89	100.90
1	fK	18	ARG	N-CA-C	7.28	119.21	111.28
1	fQ	158	LYS	N-CA-C	-7.28	104.01	114.12
1	w	139	ASN	CA-CB-CG	-7.28	105.32	112.60
1	g8	33	SER	O-C-N	-7.27	114.92	121.39
1	gg	92	GLU	O-C-N	-7.27	112.95	121.32
1	gG	24	VAL	O-C-N	-7.27	114.76	121.89
1	in	27	VAL	N-CA-C	7.27	118.07	110.72
1	io	221	VAL	CA-C-O	7.27	125.87	118.96
1	jm	166	ASP	CA-C-N	7.27	129.90	120.44
1	jm	166	ASP	C-N-CA	7.27	129.90	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jn	119	THR	CA-CB-CG2	7.27	122.86	110.50
1	jC	63	GLN	O-C-N	-7.27	114.41	122.12
1	jQ	206	GLY	O-C-N	-7.27	115.87	122.42
1	kx	160	PRO	N-CA-CB	-7.27	98.36	103.23
1	kA	134	ILE	O-C-N	-7.27	114.34	121.83
1	4A	185	MET	CA-C-N	7.27	129.90	120.44
1	4A	185	MET	C-N-CA	7.27	129.90	120.44
1	7n	16	SER	CA-C-O	-7.27	113.29	119.76
1	8s	49	PRO	CA-C-N	7.27	130.36	120.54
1	8s	49	PRO	C-N-CA	7.27	130.36	120.54
1	8u	116	GLY	O-C-N	7.27	129.33	122.13
1	8B	56	LEU	N-CA-C	7.27	119.21	111.28
1	8W	70	LYS	N-CA-C	7.27	119.21	111.28
1	96	165	VAL	CA-C-N	7.27	130.03	120.28
1	96	165	VAL	C-N-CA	7.27	130.03	120.28
1	9U	95	GLN	OE1-CD-NE2	-7.27	115.33	122.60
1	bD	91	ILE	N-CA-C	7.27	124.47	109.34
1	1i	75	GLU	N-CA-C	7.27	119.00	111.14
1	dR	143	ARG	CA-C-N	7.27	130.36	120.54
1	dR	143	ARG	C-N-CA	7.27	130.36	120.54
1	ei	142	VAL	N-CA-C	7.27	118.04	110.62
1	fc	203	LYS	N-CA-CB	7.27	121.42	110.22
1	fZ	72	THR	O-C-N	-7.27	113.32	122.27
1	g2	115	ILE	CA-C-N	7.27	128.21	119.99
1	g2	115	ILE	C-N-CA	7.27	128.21	119.99
1	gN	156	GLY	CA-C-N	7.27	126.91	119.56
1	gN	156	GLY	C-N-CA	7.27	126.91	119.56
1	gS	29	GLU	N-CA-C	7.27	119.29	111.36
1	gS	143	ARG	CA-C-N	7.27	130.34	120.38
1	gS	143	ARG	C-N-CA	7.27	130.34	120.38
1	hj	141	ILE	N-CA-CB	7.27	119.06	110.55
1	1J	143	ARG	NE-CZ-NH2	-7.27	112.65	119.20
1	hY	2	ILE	N-CA-CB	7.27	118.85	110.49
1	i2	7	GLN	OE1-CD-NE2	-7.27	115.33	122.60
1	ij	7	GLN	OE1-CD-NE2	-7.27	115.33	122.60
1	iA	66	MET	N-CA-C	7.27	118.99	111.14
1	jy	166	ASP	CA-CB-CG	7.27	119.87	112.60
1	jQ	6	LEU	N-CA-C	7.27	121.06	111.75
1	kP	7	GLN	OE1-CD-NE2	7.27	129.87	122.60
1	kV	118	MET	CG-SD-CE	-7.27	84.90	100.90
1	3u	86	VAL	CB-CA-C	7.27	122.31	111.26
1	3S	136	LEU	CA-C-N	7.27	128.00	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3S	136	LEU	C-N-CA	7.27	128.00	120.00
1	45	76	GLU	N-CA-C	7.27	119.21	111.28
1	4L	100	ARG	O-C-N	-7.27	114.17	122.68
1	5i	86	VAL	N-CA-CB	7.27	118.89	110.82
1	5T	82	ARG	CA-C-N	7.27	129.90	120.44
1	5T	82	ARG	C-N-CA	7.27	129.90	120.44
1	69	82	ARG	CA-C-N	7.27	129.89	120.44
1	69	82	ARG	C-N-CA	7.27	129.89	120.44
1	6J	197	ASP	CA-CB-CG	-7.27	105.33	112.60
1	6X	50	GLN	N-CA-C	7.27	119.89	111.02
1	7m	196	PRO	CA-C-N	7.27	131.00	120.38
1	7m	196	PRO	C-N-CA	7.27	131.00	120.38
1	7U	116	GLY	CA-C-N	7.27	130.02	120.28
1	7U	116	GLY	C-N-CA	7.27	130.02	120.28
1	7W	41	SER	CA-C-N	7.27	130.03	120.28
1	7W	41	SER	C-N-CA	7.27	130.03	120.28
1	85	37	ILE	N-CA-CB	7.27	116.12	110.45
1	89	66	MET	O-C-N	-7.27	114.58	122.07
1	8H	120	HIS	N-CA-C	7.27	119.71	110.33
1	8U	17	PRO	CA-C-N	7.27	130.03	120.28
1	8U	17	PRO	C-N-CA	7.27	130.03	120.28
1	8X	36	VAL	N-CA-C	7.27	117.40	110.42
1	9l	183	ASN	CA-CB-CG	7.27	119.87	112.60
1	9A	53	ASN	CA-CB-CG	-7.27	105.33	112.60
1	9H	147	PRO	N-CA-C	7.27	122.67	111.11
1	a1	87	HIS	CG-CD2-NE2	7.27	114.47	107.20
1	ba	226	HIS	CA-C-O	-7.27	113.63	121.56
1	bb	31	ALA	N-CA-C	7.27	120.07	111.71
1	bb	53	ASN	OD1-CG-ND2	-7.27	115.33	122.60
1	17	169	TYR	CB-CG-CD1	-7.27	109.89	120.80
1	bi	100	ARG	NE-CZ-NH1	7.27	128.77	121.50
1	bT	51	ASP	CA-C-N	7.27	130.36	120.54
1	bT	51	ASP	C-N-CA	7.27	130.36	120.54
1	ca	72	THR	CA-CB-CG2	7.27	122.86	110.50
1	cF	132	ARG	NE-CZ-NH2	7.27	125.75	119.20
1	cG	28	GLU	CA-C-N	7.27	130.62	120.29
1	cG	28	GLU	C-N-CA	7.27	130.62	120.29
1	dB	35	GLU	N-CA-C	7.27	120.07	111.71
1	dV	190	LEU	CA-C-N	7.27	130.42	120.46
1	dV	190	LEU	C-N-CA	7.27	130.42	120.46
1	e3	66	MET	N-CA-C	7.27	121.25	112.38
1	e5	70	LYS	N-CA-C	7.27	120.07	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fj	127	GLY	N-CA-C	7.27	122.08	112.77
1	fS	1	PRO	CA-C-N	7.27	130.25	120.50
1	fS	1	PRO	C-N-CA	7.27	130.25	120.50
1	o	33	SER	CA-C-O	-7.27	112.87	120.87
1	K	69	LEU	CA-C-N	7.27	129.90	120.44
1	K	69	LEU	C-N-CA	7.27	129.90	120.44
1	K	195	ASN	CA-CB-CG	7.27	119.87	112.60
1	Q	74	ASN	CA-C-N	7.27	129.89	120.44
1	Q	74	ASN	C-N-CA	7.27	129.89	120.44
1	gm	182	LYS	CA-C-O	7.27	128.48	120.63
1	gE	17	PRO	CA-C-N	7.27	130.34	120.38
1	gE	17	PRO	C-N-CA	7.27	130.34	120.38
1	gN	129	ILE	N-CA-C	7.27	118.04	110.62
1	h4	63	GLN	CA-C-N	7.27	130.02	120.28
1	h4	63	GLN	C-N-CA	7.27	130.02	120.28
1	1H	62	HIS	ND1-CG-CD2	7.27	113.37	106.10
1	h7	194	ALA	N-CA-C	7.27	119.95	110.43
1	hn	142	VAL	N-CA-C	7.27	117.40	110.42
1	ib	163	ASP	CA-C-N	7.27	129.89	120.44
1	ib	163	ASP	C-N-CA	7.27	129.89	120.44
1	iw	74	ASN	CB-CA-C	-7.27	99.46	110.88
1	jf	168	PHE	CA-CB-CG	7.27	121.07	113.80
1	jm	169	TYR	CB-CG-CD1	7.27	131.71	120.80
1	k8	133	TRP	N-CA-C	-7.27	102.34	112.45
1	2y	138	LEU	N-CA-C	7.27	119.89	111.02
1	2D	80	TRP	N-CA-C	7.27	119.84	111.11
1	4U	83	LEU	CA-C-O	-7.27	113.21	120.70
1	5a	122	PRO	CA-C-N	7.27	127.32	119.90
1	5a	122	PRO	C-N-CA	7.27	127.32	119.90
1	6f	50	GLN	N-CA-C	7.27	119.20	111.28
1	6Q	184	TRP	CA-C-N	7.27	130.35	120.54
1	6Q	184	TRP	C-N-CA	7.27	130.35	120.54
1	71	182	LYS	CA-C-N	7.27	130.02	120.28
1	71	182	LYS	C-N-CA	7.27	130.02	120.28
1	7Q	125	PRO	CA-C-O	-7.27	115.78	121.38
1	86	57	ASN	N-CA-CB	7.27	120.92	110.16
1	8z	92	GLU	O-C-N	-7.27	112.96	121.32
1	8A	120	HIS	CB-CG-CD2	-7.27	121.75	131.20
1	cu	33	SER	CA-C-N	7.27	128.93	119.84
1	cu	33	SER	C-N-CA	7.27	128.93	119.84
1	fA	39	MET	CA-C-N	7.27	129.89	120.44
1	fA	39	MET	C-N-CA	7.27	129.89	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fU	91	ILE	O-C-N	-7.27	115.22	122.93
1	g5	51	ASP	CA-CB-CG	7.27	119.87	112.60
1	gj	87	HIS	CE1-NE2-CD2	-7.27	101.73	109.00
1	gr	94	GLY	CA-C-O	7.27	127.03	119.10
1	hZ	194	ALA	CA-C-N	7.27	131.23	120.83
1	hZ	194	ALA	C-N-CA	7.27	131.23	120.83
1	iP	18	ARG	CA-C-N	7.27	129.89	120.44
1	iP	18	ARG	C-N-CA	7.27	129.89	120.44
1	j6	19	THR	O-C-N	-7.27	114.58	122.07
1	jv	195	ASN	CA-C-O	-7.27	112.47	120.69
1	jK	23	TRP	CA-C-N	7.27	130.78	120.53
1	jK	23	TRP	C-N-CA	7.27	130.78	120.53
1	20	143	ARG	NE-CZ-NH1	7.27	128.77	121.50
1	kH	3	VAL	O-C-N	-7.27	115.35	123.20
1	kV	213	GLU	N-CA-C	7.27	119.20	111.28
1	la	41	SER	CA-C-O	-7.27	112.84	120.55
1	li	183	ASN	N-CA-C	-7.27	103.36	111.28
1	2e	106	GLY	CA-C-N	7.27	130.35	120.54
1	2e	106	GLY	C-N-CA	7.27	130.35	120.54
1	2m	113	GLU	N-CA-C	7.27	118.85	111.07
1	3v	3	VAL	N-CA-C	7.27	118.96	109.58
1	44	32	PHE	CA-C-O	7.27	128.48	120.92
1	4T	76	GLU	O-C-N	-7.27	113.86	122.15
1	5E	56	LEU	N-CA-C	7.27	119.28	111.36
1	62	82	ARG	NE-CZ-NH1	7.27	128.77	121.50
1	9y	84	HIS	CE1-NE2-CD2	-7.27	101.73	109.00
1	9L	159	GLU	O-C-N	-7.27	114.92	121.39
1	a1	112	GLN	OE1-CD-NE2	7.27	129.87	122.60
1	au	16	SER	CA-C-O	-7.27	114.06	120.60
1	aE	79	GLU	CA-C-O	7.27	128.31	120.10
1	aY	217	ALA	O-C-N	-7.27	114.80	122.94
1	b9	218	CYS	CB-CA-C	7.27	124.36	111.06
1	bx	167	ARG	O-C-N	-7.27	114.41	122.12
1	1e	75	GLU	N-CA-C	7.27	119.83	111.11
1	cw	91	ILE	N-CA-C	7.27	120.10	109.63
1	d0	163	ASP	CA-CB-CG	-7.27	105.33	112.60
1	dX	4	GLN	CA-C-N	7.27	131.07	120.82
1	dX	4	GLN	C-N-CA	7.27	131.07	120.82
1	fa	140	LYS	O-C-N	-7.27	114.42	122.12
1	fg	124	ILE	N-CA-C	-7.27	100.95	108.15
1	r	98	GLU	N-CA-C	7.27	118.81	109.65
1	S	66	MET	O-C-N	-7.27	114.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	119	THR	N-CA-CB	7.27	121.17	110.56
1	h4	76	GLU	CA-C-N	7.27	130.02	120.28
1	h4	76	GLU	C-N-CA	7.27	130.02	120.28
1	hw	43	LEU	CA-C-O	7.27	128.48	120.63
1	hV	91	ILE	N-CA-CB	7.27	122.34	110.13
1	i2	84	HIS	CA-CB-CG	-7.27	106.53	113.80
1	1P	203	LYS	N-CA-C	7.27	120.25	111.82
1	iz	204	ALA	N-CA-C	7.27	118.85	111.07
1	iE	93	PRO	N-CA-CB	-7.27	95.62	103.25
1	j6	189	LEU	CA-C-N	7.27	130.02	120.28
1	j6	189	LEU	C-N-CA	7.27	130.02	120.28
1	jl	169	TYR	N-CA-C	7.27	119.20	111.28
1	jn	81	ASP	CA-C-O	-7.27	112.85	120.55
1	jF	142	VAL	CB-CA-C	7.27	121.27	111.97
1	jN	132	ARG	N-CA-CB	-7.27	99.44	110.12
1	jQ	59	VAL	N-CA-C	7.27	117.79	110.23
1	kn	52	LEU	O-C-N	-7.27	114.42	122.12
1	kz	35	GLU	O-C-N	-7.27	114.42	122.12
1	kX	90	PRO	N-CA-C	7.27	127.44	112.47
1	lk	115	ILE	CA-C-N	7.27	128.17	120.03
1	lk	115	ILE	C-N-CA	7.27	128.17	120.03
1	2d	51	ASP	CA-CB-CG	7.27	119.87	112.60
1	2D	125	PRO	N-CA-CB	-7.27	97.99	102.79
1	2S	69	LEU	CB-CA-C	7.27	122.44	110.81
1	3R	82	ARG	NE-CZ-NH2	-7.27	112.66	119.20
1	4x	219	GLN	N-CA-C	7.27	126.28	110.80
1	4J	48	THR	O-C-N	-7.27	113.90	121.60
1	5Q	36	VAL	N-CA-C	7.27	118.03	110.62
1	65	229	ARG	NH1-CZ-NH2	-7.27	109.85	119.30
1	6a	38	PRO	N-CA-CB	7.27	110.88	103.25
1	6i	159	GLU	O-C-N	-7.27	114.66	121.35
1	79	22	ALA	CA-C-N	7.27	130.32	120.44
1	79	22	ALA	C-N-CA	7.27	130.32	120.44
1	7f	56	LEU	O-C-N	-7.27	114.42	122.12
1	7m	113	GLU	N-CA-CB	7.27	120.61	110.07
1	7T	74	ASN	CA-C-N	7.27	130.32	120.44
1	7T	74	ASN	C-N-CA	7.27	130.32	120.44
1	9c	135	ILE	O-C-N	-7.27	114.77	121.89
1	9d	150	ILE	CA-CB-CG1	7.27	122.76	110.40
1	9x	12	HIS	CE1-NE2-CD2	-7.27	101.73	109.00
1	9H	146	SER	CA-C-N	7.27	127.30	119.89
1	9H	146	SER	C-N-CA	7.27	127.30	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	75	GLU	CA-C-O	7.27	128.25	120.55
1	aI	48	THR	CA-C-N	7.27	128.93	119.84
1	aI	48	THR	C-N-CA	7.27	128.93	119.84
1	aI	150	ILE	CA-C-O	7.27	125.86	118.96
1	bv	122	PRO	CA-C-N	7.27	127.27	119.78
1	bv	122	PRO	C-N-CA	7.27	127.27	119.78
1	c6	54	THR	N-CA-C	7.27	119.20	111.28
1	cj	118	MET	CA-C-O	7.27	128.64	119.12
1	cr	183	ASN	CA-C-N	7.27	130.02	120.28
1	cr	183	ASN	C-N-CA	7.27	130.02	120.28
1	cC	41	SER	N-CA-CB	7.27	120.55	110.01
1	1m	27	VAL	N-CA-C	7.27	117.40	110.42
1	dI	45	GLU	N-CA-C	7.27	121.39	110.64
1	dN	70	LYS	CA-C-N	7.27	130.02	120.28
1	dN	70	LYS	C-N-CA	7.27	130.02	120.28
1	e3	5	ASN	CA-C-N	7.27	135.42	121.54
1	e3	5	ASN	C-N-CA	7.27	135.42	121.54
1	f1	173	ARG	NE-CZ-NH2	7.27	125.74	119.20
1	fp	12	HIS	CB-CG-CD2	-7.27	121.75	131.20
1	ft	50	GLN	OE1-CD-NE2	-7.27	115.33	122.60
1	fO	125	PRO	CA-C-N	7.27	130.41	120.46
1	fO	125	PRO	C-N-CA	7.27	130.41	120.46
1	fU	101	GLY	O-C-N	-7.27	115.12	122.17
1	ht	102	SER	N-CA-C	7.27	121.90	112.89
1	hZ	68	MET	N-CA-C	7.27	119.20	111.28
1	lL	194	ALA	N-CA-C	7.27	126.28	110.80
1	2U	106	GLY	CA-C-N	7.27	130.02	120.28
1	2U	106	GLY	C-N-CA	7.27	130.02	120.28
1	46	77	ALA	CA-C-N	7.27	130.61	120.29
1	46	77	ALA	C-N-CA	7.27	130.61	120.29
1	5z	155	GLN	OE1-CD-NE2	-7.27	115.33	122.60
1	68	5	ASN	OD1-CG-ND2	-7.27	115.33	122.60
1	6f	211	LEU	N-CA-C	7.27	119.20	111.28
1	87	112	GLN	N-CA-C	7.27	119.20	111.28
1	8j	156	GLY	O-C-N	-7.27	113.75	122.03
1	8m	142	VAL	CA-C-O	7.27	128.37	119.58
1	9T	31	ALA	O-C-N	-7.27	112.93	122.59
1	a5	87	HIS	N-CA-C	7.27	120.52	110.35
1	af	143	ARG	N-CA-C	7.27	118.84	111.07
1	aA	84	HIS	CE1-NE2-CD2	-7.27	101.73	109.00
1	cb	51	ASP	CA-CB-CG	-7.27	105.33	112.60
1	d6	177	ALA	N-CA-C	7.27	119.95	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1q	50	GLN	O-C-N	-7.27	114.59	122.07
1	eF	154	ARG	NE-CZ-NH2	7.27	125.74	119.20
1	eS	167	ARG	N-CA-C	7.27	118.99	111.14
1	fc	37	ILE	CB-CA-C	-7.27	106.80	113.70
1	g5	203	LYS	N-CA-C	7.27	119.20	111.28
1	H	188	THR	O-C-N	7.27	130.76	122.19
1	gg	226	HIS	CA-C-O	7.26	128.30	120.24
1	gm	229	ARG	NE-CZ-NH2	-7.26	112.66	119.20
1	gw	12	HIS	N-CA-C	7.26	120.92	110.24
1	gX	139	ASN	N-CA-C	7.26	119.20	111.28
1	1S	88	ALA	N-CA-C	7.26	119.70	110.33
1	j1	212	GLU	N-CA-CB	7.26	120.54	110.01
1	jj	191	VAL	O-C-N	-7.26	114.79	121.91
1	jk	229	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	jt	9	GLN	CB-CG-CD	7.26	124.95	112.60
1	jC	117	TRP	N-CA-C	7.26	119.20	111.28
1	jD	148	THR	O-C-N	-7.26	115.34	123.48
1	k5	47	ALA	N-CA-C	7.26	120.23	110.35
1	km	11	VAL	O-C-N	-7.26	115.33	123.10
1	22	33	SER	O-C-N	-7.26	114.37	121.56
1	kw	70	LYS	N-CA-CB	7.26	120.54	110.01
1	kI	27	VAL	N-CA-C	7.26	117.39	110.42
1	27	33	SER	CA-C-N	7.26	127.27	119.28
1	27	33	SER	C-N-CA	7.26	127.27	119.28
1	2a	163	ASP	N-CA-C	7.26	120.06	111.71
1	2n	169	TYR	N-CA-C	7.26	119.20	111.28
1	30	184	TRP	CA-C-N	7.26	130.01	120.28
1	30	184	TRP	C-N-CA	7.26	130.01	120.28
1	3b	222	GLY	N-CA-C	7.26	121.98	112.25
1	3F	45	GLU	N-CA-C	7.26	119.20	111.28
1	3Q	84	HIS	CE1-NE2-CD2	-7.26	101.73	109.00
1	4r	149	SER	N-CA-CB	7.26	122.77	110.49
1	5v	16	SER	CA-C-N	7.26	128.92	119.84
1	5v	16	SER	C-N-CA	7.26	128.92	119.84
1	5v	131	LYS	CA-C-N	7.26	130.01	120.28
1	5v	131	LYS	C-N-CA	7.26	130.01	120.28
1	7u	191	VAL	O-C-N	-7.26	112.25	121.84
1	7B	113	GLU	N-CA-C	7.26	118.84	111.07
1	7U	114	GLN	N-CA-C	7.26	119.20	111.28
1	8R	165	VAL	N-CA-C	7.26	118.03	110.62
1	9e	132	ARG	NH1-CZ-NH2	-7.26	109.86	119.30
1	9o	106	GLY	CA-C-N	7.26	129.88	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9o	106	GLY	C-N-CA	7.26	129.88	120.44
1	9L	18	ARG	N-CA-C	7.26	119.20	111.28
1	Z	188	THR	CA-C-N	7.26	130.33	120.38
1	Z	188	THR	C-N-CA	7.26	130.33	120.38
1	am	121	ASN	O-C-N	-7.26	112.28	121.29
1	b0	87	HIS	CG-CD2-NE2	7.26	114.46	107.20
1	bm	55	MET	CB-CA-C	-7.26	99.47	110.88
1	bH	18	ARG	N-CA-C	7.26	118.84	111.07
1	c8	195	ASN	CA-C-O	-7.26	112.92	119.75
1	ct	52	LEU	N-CA-C	7.26	119.83	111.11
1	cu	162	ARG	CA-C-O	7.26	129.52	121.02
1	cz	70	LYS	CA-C-O	-7.26	112.85	120.55
1	cA	121	ASN	N-CA-C	-7.26	99.17	110.14
1	cD	31	ALA	N-CA-C	7.26	120.10	111.02
1	cI	77	ALA	CA-C-O	-7.26	112.72	120.42
1	dq	12	HIS	CG-CD2-NE2	7.26	114.46	107.20
1	dL	10	MET	N-CA-C	7.26	120.94	109.39
1	f8	225	GLY	N-CA-C	7.26	121.98	112.25
1	fc	212	GLU	N-CA-C	7.26	120.12	111.33
1	fi	208	ALA	CA-C-N	7.26	131.03	120.71
1	fi	208	ALA	C-N-CA	7.26	131.03	120.71
1	fs	62	HIS	ND1-CG-CD2	7.26	113.36	106.10
1	fR	154	ARG	O-C-N	-7.26	115.65	123.42
1	J	62	HIS	ND1-CE1-NE2	7.26	115.66	108.40
1	gr	37	ILE	CA-C-N	7.26	126.89	119.19
1	gr	37	ILE	C-N-CA	7.26	126.89	119.19
1	gT	171	THR	N-CA-CB	7.26	120.54	110.01
1	h2	182	LYS	O-C-N	-7.26	114.42	122.12
1	i4	211	LEU	N-CA-C	7.26	119.20	111.28
1	1V	50	GLN	N-CA-C	7.26	119.83	111.11
1	ju	34	PRO	N-CA-C	-7.26	107.13	114.68
1	jC	199	LYS	CA-C-N	7.26	130.89	120.79
1	jC	199	LYS	C-N-CA	7.26	130.89	120.79
1	jR	229	ARG	NH1-CZ-NH2	-7.26	109.86	119.30
1	l5	75	GLU	N-CA-C	7.26	119.28	111.36
1	2p	209	ALA	N-CA-C	7.26	120.74	110.50
1	2B	102	SER	N-CA-C	7.26	119.20	111.28
1	3z	33	SER	O-C-N	-7.26	112.97	121.32
1	3S	11	VAL	O-C-N	-7.26	115.75	122.79
1	4L	70	LYS	CA-C-N	7.26	130.01	120.28
1	4L	70	LYS	C-N-CA	7.26	130.01	120.28
1	5z	124	ILE	CA-C-N	7.26	128.92	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5z	124	ILE	C-N-CA	7.26	128.92	119.84
1	6y	137	GLY	O-C-N	-7.26	115.21	122.18
1	6z	78	ALA	N-CA-C	7.26	119.20	111.28
1	78	54	THR	N-CA-C	7.26	119.83	111.11
1	8g	120	HIS	CG-CD2-NE2	7.26	114.46	107.20
1	8k	22	ALA	N-CA-C	7.26	119.20	111.28
1	8B	168	PHE	CA-CB-CG	7.26	121.06	113.80
1	9S	141	ILE	N-CA-C	7.26	117.39	110.42
1	15	163	ASP	CA-C-N	7.26	130.01	120.28
1	15	163	ASP	C-N-CA	7.26	130.01	120.28
1	bW	62	HIS	CA-C-N	7.26	130.01	120.28
1	bW	62	HIS	C-N-CA	7.26	130.01	120.28
1	cC	12	HIS	CE1-NE2-CD2	-7.26	101.74	109.00
1	df	179	GLN	OE1-CD-NE2	-7.26	115.34	122.60
1	1k	162	ARG	N-CA-C	7.26	120.12	111.33
1	eE	129	ILE	CB-CA-C	-7.26	102.67	111.97
1	eQ	101	GLY	N-CA-C	7.26	121.44	112.73
1	eQ	230	VAL	CA-C-O	7.26	129.13	120.85
1	fd	84	HIS	CA-C-N	7.26	128.92	119.84
1	fd	84	HIS	C-N-CA	7.26	128.92	119.84
1	ge	48	THR	CA-C-O	-7.26	112.79	120.70
1	hf	57	ASN	CA-C-O	7.26	127.82	119.18
1	hN	180	GLU	N-CA-C	7.26	118.98	111.14
1	iD	37	ILE	N-CA-CB	7.26	115.07	110.50
1	ki	3	VAL	O-C-N	-7.26	115.01	123.00
1	21	62	HIS	CA-CB-CG	-7.26	106.54	113.80
1	kl	195	ASN	OD1-CG-ND2	-7.26	115.34	122.60
1	ky	191	VAL	O-C-N	-7.26	114.68	121.94
1	kO	84	HIS	O-C-N	-7.26	115.41	121.44
1	lu	3	VAL	CA-C-O	-7.26	114.05	121.67
1	lz	75	GLU	N-CA-CB	7.26	120.54	110.01
1	2j	173	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	2J	12	HIS	CG-CD2-NE2	7.26	114.46	107.20
1	2K	12	HIS	O-C-N	-7.26	114.69	123.19
1	3Y	18	ARG	CA-C-N	7.26	130.32	120.44
1	3Y	18	ARG	C-N-CA	7.26	130.32	120.44
1	4w	16	SER	CA-C-O	-7.26	114.09	120.19
1	5m	194	ALA	N-CA-C	7.26	119.94	110.43
1	5A	101	GLY	CA-C-N	7.26	130.33	120.38
1	5A	101	GLY	C-N-CA	7.26	130.33	120.38
1	7l	186	THR	N-CA-C	7.26	120.06	111.71
1	81	157	PRO	N-CA-CB	-7.26	95.93	103.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	59	VAL	N-CA-C	7.26	118.38	109.30
1	8z	11	VAL	N-CA-C	7.26	119.20	108.45
1	8S	166	ASP	CA-C-N	7.26	130.01	120.28
1	8S	166	ASP	C-N-CA	7.26	130.01	120.28
1	10	19	THR	N-CA-CB	7.26	120.91	110.16
1	ak	73	ILE	O-C-N	-7.26	114.79	121.91
1	b4	12	HIS	CB-CG-CD2	-7.26	121.76	131.20
1	bM	146	SER	CA-C-N	7.26	126.97	119.64
1	bM	146	SER	C-N-CA	7.26	126.97	119.64
1	cz	135	ILE	CA-C-N	7.26	130.34	120.54
1	cz	135	ILE	C-N-CA	7.26	130.34	120.54
1	cJ	129	ILE	N-CA-C	7.26	117.39	110.42
1	cW	194	ALA	N-CA-CB	-7.26	99.98	110.36
1	cY	74	ASN	CA-CB-CG	-7.26	105.34	112.60
1	d6	194	ALA	O-C-N	-7.26	114.51	122.79
1	dh	71	GLU	N-CA-CB	7.26	120.80	110.12
1	ee	112	GLN	OE1-CD-NE2	-7.26	115.34	122.60
1	eF	84	HIS	CE1-NE2-CD2	-7.26	101.74	109.00
1	eP	51	ASP	CA-C-N	7.26	130.31	120.44
1	eP	51	ASP	C-N-CA	7.26	130.31	120.44
1	fP	185	MET	O-C-N	-7.26	113.34	122.27
1	1	100	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	2	70	LYS	N-CA-C	7.26	118.84	111.07
1	v	81	ASP	N-CA-C	7.26	119.28	111.36
1	z	111	LEU	O-C-N	-7.26	114.42	122.12
1	F	2	ILE	N-CA-CB	7.26	119.70	111.21
1	gl	36	VAL	CA-C-N	7.26	124.81	120.24
1	gl	36	VAL	C-N-CA	7.26	124.81	120.24
1	gp	6	LEU	CA-C-O	7.26	128.11	120.42
1	hp	100	ARG	N-CA-C	-7.26	99.11	110.36
1	il	141	ILE	N-CA-C	7.26	118.02	110.62
1	iR	185	MET	CA-C-O	-7.26	113.20	120.82
1	j9	163	ASP	CA-C-N	7.26	129.88	120.44
1	j9	163	ASP	C-N-CA	7.26	129.88	120.44
1	1W	131	LYS	CA-C-O	7.26	128.30	120.10
1	jD	110	THR	CA-C-N	7.26	130.32	120.38
1	jD	110	THR	C-N-CA	7.26	130.32	120.38
1	jI	124	ILE	N-CA-CB	7.26	118.00	110.23
1	jL	185	MET	CA-C-O	7.26	128.12	120.42
1	jN	114	GLN	O-C-N	7.26	129.55	122.07
1	jV	138	LEU	N-CA-C	7.26	119.19	111.28
1	kh	199	LYS	O-C-N	-7.26	114.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	159	GLU	O-C-N	-7.26	115.00	121.31
1	lv	204	ALA	CA-C-O	7.26	128.24	120.55
1	lC	114	GLN	OE1-CD-NE2	-7.26	115.34	122.60
1	lC	151	LEU	CA-C-O	7.26	127.43	119.15
1	lP	172	LEU	CA-C-N	7.26	130.34	120.54
1	lP	172	LEU	C-N-CA	7.26	130.34	120.54
1	2p	120	HIS	ND1-CE1-NE2	7.26	115.66	108.40
1	2M	115	ILE	CA-C-N	7.26	128.19	119.99
1	2M	115	ILE	C-N-CA	7.26	128.19	119.99
1	36	73	ILE	CA-CB-CG1	7.26	122.74	110.40
1	37	37	ILE	CB-CA-C	-7.26	106.80	113.70
1	3e	71	GLU	N-CA-C	-7.26	103.30	111.14
1	3e	81	ASP	N-CA-CB	-7.26	99.48	110.01
1	4C	69	LEU	O-C-N	-7.26	113.88	122.15
1	57	111	LEU	CA-C-N	7.26	130.34	120.54
1	57	111	LEU	C-N-CA	7.26	130.34	120.54
1	59	67	GLN	O-C-N	-7.26	113.87	122.15
1	5n	85	PRO	N-CA-C	7.26	127.42	112.47
1	5R	215	MET	N-CA-C	7.26	119.19	111.28
1	6b	226	HIS	ND1-CE1-NE2	7.26	115.66	108.40
1	6j	99	PRO	O-C-N	-7.26	115.07	122.98
1	6n	5	ASN	CA-CB-CG	-7.26	105.34	112.60
1	7D	197	ASP	CA-CB-CG	7.26	119.86	112.60
1	8p	16	SER	CA-C-O	-7.26	114.07	120.60
1	8M	69	LEU	N-CA-C	7.26	118.84	111.07
1	9v	107	THR	N-CA-CB	7.26	121.86	110.46
1	ar	172	LEU	CB-CA-C	-7.26	98.74	110.79
1	aM	179	GLN	OE1-CD-NE2	-7.26	115.34	122.60
1	c7	134	ILE	CA-C-N	7.26	130.73	120.42
1	c7	134	ILE	C-N-CA	7.26	130.73	120.42
1	cv	87	HIS	CB-CG-CD2	-7.26	121.76	131.20
1	cF	212	GLU	N-CA-C	7.26	118.84	111.07
1	cT	84	HIS	CE1-NE2-CD2	-7.26	101.74	109.00
1	de	84	HIS	CA-CB-CG	7.26	121.06	113.80
1	df	56	LEU	CA-C-N	7.26	133.84	121.14
1	df	56	LEU	C-N-CA	7.26	133.84	121.14
1	eX	66	MET	N-CA-C	7.26	119.19	111.28
1	f6	120	HIS	CE1-NE2-CD2	-7.26	101.74	109.00
1	1x	50	GLN	N-CA-C	7.26	119.19	111.28
1	fQ	177	ALA	CA-C-N	7.26	131.14	120.90
1	fQ	177	ALA	C-N-CA	7.26	131.14	120.90
1	g4	12	HIS	CE1-NE2-CD2	-7.26	101.74	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	155	GLN	OE1-CD-NE2	7.26	129.86	122.60
1	7	51	ASP	CA-CB-CG	-7.26	105.34	112.60
1	ga	201	ILE	CA-C-N	7.26	129.88	120.44
1	ga	201	ILE	C-N-CA	7.26	129.88	120.44
1	hM	72	THR	CA-C-O	7.26	128.44	120.82
1	it	23	TRP	CD2-CE2-CZ2	-7.26	115.14	122.40
1	jc	115	ILE	CA-C-N	7.26	127.85	119.94
1	jc	115	ILE	C-N-CA	7.26	127.85	119.94
1	jd	62	HIS	O-C-N	-7.26	114.15	122.86
1	jR	87	HIS	O-C-N	7.26	131.74	122.81
1	kP	179	GLN	O-C-N	-7.26	114.59	122.07
1	kW	178	SER	CA-C-N	7.26	129.88	120.44
1	kW	178	SER	C-N-CA	7.26	129.88	120.44
1	lF	158	LYS	CA-C-N	7.26	131.70	120.60
1	lF	158	LYS	C-N-CA	7.26	131.70	120.60
1	4I	135	ILE	CB-CA-C	7.26	121.26	111.97
1	5h	89	GLY	CA-C-N	7.26	128.91	119.84
1	5h	89	GLY	C-N-CA	7.26	128.91	119.84
1	5z	19	THR	O-C-N	-7.26	114.43	122.12
1	5Q	114	GLN	N-CA-C	7.26	119.27	111.36
1	6v	68	MET	CA-C-N	7.26	129.88	120.44
1	6v	68	MET	C-N-CA	7.26	129.88	120.44
1	6T	63	GLN	CA-C-N	7.26	130.88	120.79
1	6T	63	GLN	C-N-CA	7.26	130.88	120.79
1	6Y	23	TRP	N-CA-C	7.26	119.19	111.28
1	7s	143	ARG	CA-C-N	7.26	130.73	120.28
1	7s	143	ARG	C-N-CA	7.26	130.73	120.28
1	8f	165	VAL	O-C-N	-7.26	114.80	121.91
1	8i	126	VAL	CA-C-O	7.26	128.50	120.95
1	aG	159	GLU	CA-C-O	-7.26	113.87	119.46
1	c2	17	PRO	N-CA-C	7.26	127.42	112.47
1	cf	105	ALA	N-CA-CB	-7.26	99.28	110.46
1	cu	73	ILE	CA-C-N	7.26	130.73	120.28
1	cu	73	ILE	C-N-CA	7.26	130.73	120.28
1	cW	193	ASN	OD1-CG-ND2	-7.26	115.34	122.60
1	fw	126	VAL	N-CA-C	7.26	118.02	110.62
1	p	21	ASN	OD1-CG-ND2	-7.26	115.34	122.60
1	ga	191	VAL	N-CA-C	7.26	118.05	110.72
1	gf	169	TYR	N-CA-CB	7.26	120.90	110.16
1	gC	165	VAL	O-C-N	-7.26	114.83	121.87
1	hN	161	PHE	CA-CB-CG	7.26	121.06	113.80
1	ia	72	THR	N-CA-C	7.26	119.27	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jT	111	LEU	N-CA-C	7.26	119.19	111.28
1	ky	120	HIS	ND1-CE1-NE2	7.26	115.66	108.40
1	23	26	VAL	O-C-N	7.26	128.91	121.87
1	kT	37	ILE	O-C-N	-7.26	115.78	120.42
1	kV	156	GLY	CA-C-N	7.26	128.91	119.84
1	kV	156	GLY	C-N-CA	7.26	128.91	119.84
1	lM	30	LYS	CA-C-N	7.26	135.40	121.54
1	lM	30	LYS	C-N-CA	7.26	135.40	121.54
1	4a	120	HIS	N-CA-CB	-7.26	100.06	110.44
1	5G	173	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	6d	74	ASN	CA-C-O	-7.26	112.86	120.55
1	6w	213	GLU	O-C-N	-7.26	114.60	122.07
1	6O	123	PRO	CA-C-N	-7.26	117.36	122.59
1	6O	123	PRO	C-N-CA	-7.26	117.36	122.59
1	7C	230	VAL	N-CA-CB	7.26	119.85	110.13
1	7U	201	ILE	CB-CA-C	-7.26	102.52	112.24
1	91	54	THR	N-CA-C	7.26	118.83	111.07
1	91	101	GLY	N-CA-C	7.26	121.44	112.73
1	98	128	GLU	N-CA-C	7.26	119.87	111.02
1	9a	223	GLY	CA-C-N	7.26	128.91	119.84
1	9a	223	GLY	C-N-CA	7.26	128.91	119.84
1	9k	120	HIS	CG-CD2-NE2	7.26	114.46	107.20
1	9J	34	PRO	CA-C-N	7.26	133.02	120.68
1	9J	34	PRO	C-N-CA	7.26	133.02	120.68
1	af	34	PRO	CA-C-N	7.26	130.59	120.29
1	af	34	PRO	C-N-CA	7.26	130.59	120.29
1	ao	96	MET	CA-C-N	7.26	131.71	120.75
1	ao	96	MET	C-N-CA	7.26	131.71	120.75
1	ao	212	GLU	O-C-N	-7.26	114.60	122.07
1	bg	42	ALA	O-C-N	-7.26	114.43	122.12
1	bF	211	LEU	N-CA-C	7.26	120.24	111.82
1	bK	43	LEU	CA-C-O	7.26	128.24	120.55
1	bS	226	HIS	CB-CG-CD2	-7.26	121.77	131.20
1	1b	162	ARG	NE-CZ-NH1	7.26	128.76	121.50
1	c8	195	ASN	CA-C-N	7.26	126.89	119.56
1	c8	195	ASN	C-N-CA	7.26	126.89	119.56
1	cq	179	GLN	CA-C-N	7.26	130.00	120.28
1	cq	179	GLN	C-N-CA	7.26	130.00	120.28
1	fF	183	ASN	CA-CB-CG	-7.26	105.34	112.60
1	fP	132	ARG	NE-CZ-NH2	7.26	125.73	119.20
1	x	67	GLN	N-CA-C	7.26	120.11	111.33
1	gT	102	SER	O-C-N	-7.25	114.43	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ho	173	ARG	NE-CZ-NH1	-7.25	114.25	121.50
1	hH	182	LYS	N-CA-C	7.25	120.05	111.71
1	iz	142	VAL	CB-CA-C	7.25	121.54	112.04
1	iE	117	TRP	N-CA-C	7.25	119.82	111.11
1	k8	51	ASP	CA-C-N	7.25	130.00	120.28
1	k8	51	ASP	C-N-CA	7.25	130.00	120.28
1	lz	136	LEU	CA-C-N	7.25	128.19	119.99
1	lz	136	LEU	C-N-CA	7.25	128.19	119.99
1	2d	129	ILE	CA-C-O	7.25	129.05	121.29
1	2H	184	TRP	CA-C-O	7.25	128.17	120.70
1	7C	183	ASN	O-C-N	-7.25	114.43	122.12
1	7R	222	GLY	O-C-N	-7.25	113.27	122.70
1	8K	18	ARG	N-CA-C	7.25	118.83	111.07
1	aI	127	GLY	N-CA-C	7.25	121.42	112.64
1	b1	173	ARG	NE-CZ-NH2	7.25	125.73	119.20
1	dG	182	LYS	N-CA-C	7.25	120.11	111.33
1	d	64	ALA	N-CA-C	7.25	119.19	111.28
1	gx	132	ARG	NH1-CZ-NH2	-7.25	109.87	119.30
1	gN	16	SER	N-CA-C	7.25	118.92	109.93
1	hO	163	ASP	O-C-N	-7.25	114.60	122.07
1	j3	53	ASN	CA-C-O	7.25	128.24	120.55
1	kK	157	PRO	CA-C-O	7.25	128.04	118.90
1	2a	9	GLN	OE1-CD-NE2	-7.25	115.35	122.60
1	2a	156	GLY	CA-C-O	-7.25	115.42	122.46
1	4t	189	LEU	CA-C-N	7.25	130.00	120.28
1	4t	189	LEU	C-N-CA	7.25	130.00	120.28
1	5r	149	SER	N-CA-C	7.25	120.10	110.53
1	6H	95	GLN	OE1-CD-NE2	-7.25	115.35	122.60
1	6I	113	GLU	CA-C-N	7.25	131.33	120.31
1	6I	113	GLU	C-N-CA	7.25	131.33	120.31
1	6Z	176	GLN	CA-C-N	7.25	131.76	121.02
1	6Z	176	GLN	C-N-CA	7.25	131.76	121.02
1	7j	24	VAL	CA-CB-CG1	-7.25	98.07	110.40
1	99	8	GLY	N-CA-C	7.25	121.42	112.64
1	9O	227	LYS	CA-C-O	7.25	129.17	121.19
1	11	195	ASN	CA-CB-CG	7.25	119.85	112.60
1	aA	120	HIS	CA-CB-CG	7.25	121.05	113.80
1	ba	42	ALA	N-CA-C	7.25	119.19	111.28
1	17	162	ARG	N-CA-C	7.25	119.81	111.11
1	1a	218	CYS	N-CA-C	7.25	121.53	111.74
1	ct	64	ALA	CA-C-N	7.25	129.87	120.44
1	ct	64	ALA	C-N-CA	7.25	129.87	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cL	102	SER	O-C-N	-7.25	114.43	122.12
1	dF	136	LEU	N-CA-C	7.25	119.19	111.28
1	1m	88	ALA	O-C-N	-7.25	114.12	122.97
1	dL	177	ALA	CA-C-N	7.25	131.01	120.71
1	dL	177	ALA	C-N-CA	7.25	131.01	120.71
1	dM	229	ARG	NE-CZ-NH2	7.25	125.73	119.20
1	dN	40	PHE	CA-C-O	7.25	128.44	120.82
1	dX	25	LYS	N-CA-C	7.25	120.23	111.82
1	ek	53	ASN	CA-C-N	7.25	129.87	120.44
1	ek	53	ASN	C-N-CA	7.25	129.87	120.44
1	eJ	141	ILE	N-CA-C	7.25	117.38	110.42
1	eX	148	THR	O-C-N	-7.25	114.70	123.19
1	g2	16	SER	CA-C-O	-7.25	114.58	119.29
1	1B	185	MET	N-CA-C	7.25	119.81	111.11
1	n	20	LEU	CA-C-N	7.25	130.00	120.28
1	n	20	LEU	C-N-CA	7.25	130.00	120.28
1	r	160	PRO	CA-C-O	-7.25	113.16	121.36
1	gd	214	MET	N-CA-C	7.25	119.26	111.36
1	gx	65	ALA	CA-C-O	7.25	128.11	120.42
1	gz	50	GLN	CA-C-N	7.25	129.87	120.44
1	gz	50	GLN	C-N-CA	7.25	129.87	120.44
1	hv	204	ALA	N-CA-C	-7.25	103.90	112.89
1	hw	143	ARG	CA-C-O	-7.25	113.43	120.90
1	ie	167	ARG	O-C-N	-7.25	114.60	122.07
1	ih	110	THR	O-C-N	-7.25	114.02	123.16
1	iN	82	ARG	NH1-CZ-NH2	-7.25	109.87	119.30
1	jJ	23	TRP	N-CA-C	7.25	118.83	111.07
1	kc	149	SER	N-CA-C	7.25	121.18	110.30
1	lQ	143	ARG	CD-NE-CZ	7.25	134.55	124.40
1	2M	18	ARG	NE-CZ-NH2	-7.25	112.67	119.20
1	2R	62	HIS	ND1-CG-CD2	7.25	113.35	106.10
1	3m	147	PRO	N-CA-C	7.25	123.08	111.26
1	42	84	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
1	46	133	TRP	N-CA-C	7.25	119.18	111.28
1	4l	53	ASN	CA-C-N	7.25	129.87	120.44
1	4l	53	ASN	C-N-CA	7.25	129.87	120.44
1	4E	9	GLN	N-CA-C	7.25	120.75	107.99
1	51	183	ASN	N-CA-C	7.25	119.26	111.36
1	5y	223	GLY	O-C-N	-7.25	114.52	121.77
1	5H	199	LYS	N-CA-C	7.25	119.18	111.28
1	6U	89	GLY	CA-C-N	7.25	127.23	119.76
1	6U	89	GLY	C-N-CA	7.25	127.23	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	124	ILE	O-C-N	-7.25	115.80	121.46
1	8l	192	GLN	N-CA-C	7.25	120.05	111.71
1	8E	170	LYS	O-C-N	-7.25	114.60	122.07
1	9k	97	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	9P	48	THR	CA-C-N	7.25	127.59	119.32
1	9P	48	THR	C-N-CA	7.25	127.59	119.32
1	aR	179	GLN	N-CA-CB	7.25	120.94	110.06
1	aX	84	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
1	by	183	ASN	N-CA-C	7.25	119.81	111.11
1	cu	171	THR	CA-C-N	7.25	130.00	120.28
1	cu	171	THR	C-N-CA	7.25	130.00	120.28
1	cM	83	LEU	O-C-N	-7.25	114.43	122.12
1	d8	40	PHE	CA-C-N	7.25	129.87	120.44
1	d8	40	PHE	C-N-CA	7.25	129.87	120.44
1	dC	171	THR	CA-C-N	7.25	129.87	120.44
1	dC	171	THR	C-N-CA	7.25	129.87	120.44
1	ev	192	GLN	OE1-CD-NE2	-7.25	115.35	122.60
1	eC	55	MET	N-CA-CB	7.25	120.52	110.01
1	eL	229	ARG	CA-C-O	7.25	128.40	120.71
1	fV	184	TRP	CA-C-N	7.25	130.00	120.28
1	fV	184	TRP	C-N-CA	7.25	130.00	120.28
1	g1	211	LEU	N-CA-C	7.25	119.18	111.28
1	b	215	MET	N-CA-C	-7.25	104.43	113.28
1	o	20	LEU	CA-C-N	7.25	129.87	120.44
1	o	20	LEU	C-N-CA	7.25	129.87	120.44
1	V	171	THR	O-C-N	-7.25	113.35	122.27
1	gj	149	SER	N-CA-C	-7.25	98.05	109.07
1	ix	92	GLU	CA-C-N	7.25	128.90	119.84
1	ix	92	GLU	C-N-CA	7.25	128.90	119.84
1	iQ	90	PRO	CA-C-O	-7.25	113.42	121.32
1	jB	140	LYS	CA-C-N	7.25	129.69	120.56
1	jB	140	LYS	C-N-CA	7.25	129.69	120.56
1	ko	105	ALA	CA-C-N	7.25	131.06	120.11
1	ko	105	ALA	C-N-CA	7.25	131.06	120.11
1	l1	84	HIS	CA-C-N	7.25	128.90	119.84
1	l1	84	HIS	C-N-CA	7.25	128.90	119.84
1	2r	135	ILE	O-C-N	-7.25	114.81	121.91
1	2W	110	THR	CA-C-N	7.25	130.00	120.28
1	2W	110	THR	C-N-CA	7.25	130.00	120.28
1	2X	114	GLN	CA-C-N	7.25	130.39	120.46
1	2X	114	GLN	C-N-CA	7.25	130.39	120.46
1	3c	58	THR	CA-CB-CG2	7.25	122.82	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	143	ARG	O-C-N	-7.25	114.26	122.09
1	43	41	SER	CA-C-N	7.25	130.00	120.28
1	43	41	SER	C-N-CA	7.25	130.00	120.28
1	4r	57	ASN	O-C-N	-7.25	112.53	122.46
1	4L	74	ASN	CA-C-O	-7.25	111.63	119.97
1	6l	182	LYS	N-CA-C	7.25	120.05	111.71
1	6u	49	PRO	CA-C-N	7.25	129.87	120.44
1	6u	49	PRO	C-N-CA	7.25	129.87	120.44
1	6z	230	VAL	CA-CB-CG1	7.25	122.72	110.40
1	77	191	VAL	CA-CB-CG2	-7.25	98.08	110.40
1	7K	58	THR	N-CA-C	7.25	119.18	111.28
1	8s	92	GLU	CA-C-N	7.25	127.25	119.28
1	8s	92	GLU	C-N-CA	7.25	127.25	119.28
1	8E	112	GLN	N-CA-C	7.25	119.18	111.28
1	8I	5	ASN	CA-CB-CG	-7.25	105.35	112.60
1	9S	84	HIS	CG-CD2-NE2	7.25	114.45	107.20
1	ax	121	ASN	CA-CB-CG	7.25	119.85	112.60
1	aA	144	MET	N-CA-C	7.25	120.05	111.71
1	aK	214	MET	CA-C-N	7.25	130.72	120.28
1	aK	214	MET	C-N-CA	7.25	130.72	120.28
1	b3	21	ASN	CA-CB-CG	7.25	119.85	112.60
1	bv	132	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	bZ	84	HIS	O-C-N	-7.25	114.82	121.42
1	dc	208	ALA	O-C-N	-7.25	114.48	122.67
1	dV	23	TRP	N-CA-C	7.25	119.18	111.28
1	1p	120	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
1	ed	22	ALA	N-CA-C	7.25	119.18	111.28
1	em	95	GLN	OE1-CD-NE2	-7.25	115.35	122.60
1	eL	162	ARG	NE-CZ-NH2	-7.25	112.67	119.20
1	eT	23	TRP	CZ3-CH2-CZ2	-7.25	112.08	121.50
1	fZ	28	GLU	N-CA-C	7.25	118.83	111.07
1	g0	120	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
1	g7	190	LEU	CA-C-N	7.25	129.84	120.56
1	g7	190	LEU	C-N-CA	7.25	129.84	120.56
1	1E	148	THR	N-CA-C	7.25	119.66	110.24
1	gT	133	TRP	CB-CG-CD2	-7.25	116.65	126.80
1	hn	51	ASP	N-CA-C	7.25	118.83	111.07
1	hC	156	GLY	CA-C-O	-7.25	114.01	121.62
1	hL	86	VAL	CA-CB-CG1	7.25	122.72	110.40
1	ii	158	LYS	O-C-N	-7.25	113.65	122.20
1	ik	88	ALA	N-CA-C	7.25	119.18	111.28
1	iz	36	VAL	N-CA-C	7.25	117.38	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iH	97	ARG	NE-CZ-NH2	-7.25	112.68	119.20
1	iU	84	HIS	CG-CD2-NE2	7.25	114.45	107.20
1	ja	162	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	jC	5	ASN	OD1-CG-ND2	-7.25	115.35	122.60
1	kH	50	GLN	O-C-N	-7.25	112.62	122.33
1	kM	100	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	l8	53	ASN	N-CA-C	7.25	120.05	111.71
1	28	71	GLU	CB-CG-CD	7.25	124.92	112.60
1	lw	79	GLU	CA-C-O	-7.25	113.23	120.70
1	2p	71	GLU	CA-C-N	7.25	129.86	120.44
1	2p	71	GLU	C-N-CA	7.25	129.86	120.44
1	2A	162	ARG	N-CA-C	7.25	119.18	111.28
1	2A	184	TRP	O-C-N	-7.25	113.74	122.22
1	3h	78	ALA	N-CA-C	7.25	119.18	111.28
1	3h	159	GLU	CA-C-N	7.25	126.87	119.19
1	3h	159	GLU	C-N-CA	7.25	126.87	119.19
1	3E	71	GLU	CA-C-N	7.25	129.99	120.28
1	3E	71	GLU	C-N-CA	7.25	129.99	120.28
1	40	185	MET	N-CA-CB	7.25	120.78	110.12
1	46	188	THR	CA-C-N	7.25	131.69	120.82
1	46	188	THR	C-N-CA	7.25	131.69	120.82
1	4x	37	ILE	O-C-N	-7.25	115.78	120.42
1	52	78	ALA	O-C-N	-7.25	114.44	122.12
1	5a	111	LEU	CA-C-N	7.25	129.99	120.28
1	5a	111	LEU	C-N-CA	7.25	129.99	120.28
1	5g	81	ASP	CA-C-N	7.25	129.86	120.44
1	5g	81	ASP	C-N-CA	7.25	129.86	120.44
1	5K	26	VAL	CA-C-N	7.25	130.39	120.46
1	5K	26	VAL	C-N-CA	7.25	130.39	120.46
1	5P	97	ARG	NH1-CZ-NH2	-7.25	109.88	119.30
1	60	137	GLY	O-C-N	-7.25	115.16	122.19
1	62	67	GLN	CA-C-N	7.25	129.99	120.28
1	62	67	GLN	C-N-CA	7.25	129.99	120.28
1	6f	147	PRO	O-C-N	-7.25	112.47	122.55
1	6F	50	GLN	CA-C-N	7.25	129.99	120.28
1	6F	50	GLN	C-N-CA	7.25	129.99	120.28
1	7B	203	LYS	CA-C-O	7.25	128.31	119.97
1	7S	200	THR	N-CA-CB	7.25	121.38	110.22
1	84	130	TYR	CA-C-N	7.25	130.33	120.54
1	84	130	TYR	C-N-CA	7.25	130.33	120.54
1	8a	78	ALA	N-CA-C	7.25	118.83	111.07
1	8c	48	THR	O-C-N	-7.25	113.92	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8e	160	PRO	N-CA-C	7.25	127.40	112.47
1	8H	65	ALA	CA-C-N	7.25	130.33	120.54
1	8H	65	ALA	C-N-CA	7.25	130.33	120.54
1	ab	148	THR	CA-C-N	7.25	131.16	120.87
1	ab	148	THR	C-N-CA	7.25	131.16	120.87
1	ac	76	GLU	N-CA-C	7.25	119.26	111.36
1	aj	193	ASN	O-C-N	-7.25	113.64	122.34
1	aN	139	ASN	OD1-CG-ND2	-7.25	115.35	122.60
1	b7	48	THR	N-CA-CB	7.25	119.68	110.04
1	bC	59	VAL	CA-C-O	7.25	128.35	119.58
1	cp	198	CYS	N-CA-C	7.25	119.18	111.28
1	cp	201	ILE	N-CA-C	7.25	118.01	110.62
1	cZ	187	GLU	CA-C-N	7.25	131.03	121.90
1	cZ	187	GLU	C-N-CA	7.25	131.03	121.90
1	d4	127	GLY	CA-C-N	7.25	130.30	120.44
1	d4	127	GLY	C-N-CA	7.25	130.30	120.44
1	eh	65	ALA	CA-C-O	7.25	128.23	120.55
1	es	150	ILE	CB-CA-C	-7.25	102.55	112.04
1	es	176	GLN	OE1-CD-NE2	-7.25	115.35	122.60
1	1s	143	ARG	CA-C-N	7.25	129.99	120.28
1	1s	143	ARG	C-N-CA	7.25	129.99	120.28
1	eI	142	VAL	CA-C-N	7.25	129.99	120.28
1	eI	142	VAL	C-N-CA	7.25	129.99	120.28
1	fz	43	LEU	O-C-N	-7.25	113.35	122.27
1	fE	11	VAL	N-CA-CB	7.25	119.26	111.00
1	fE	126	VAL	N-CA-C	7.25	117.38	110.42
1	fQ	161	PHE	CA-CB-CG	-7.25	106.55	113.80
1	M	226	HIS	ND1-CE1-NE2	7.25	115.65	108.40
1	h9	26	VAL	O-C-N	-7.25	114.79	121.89
1	iK	201	ILE	CA-C-O	7.25	128.85	121.17
1	j0	16	SER	O-C-N	-7.25	113.74	121.42
1	kp	226	HIS	CA-C-O	7.25	128.29	119.38
1	kP	143	ARG	NE-CZ-NH2	-7.25	112.68	119.20
1	kZ	41	SER	N-CA-C	7.25	119.81	111.11
1	l1	77	ALA	CA-C-N	7.25	130.58	120.29
1	l1	77	ALA	C-N-CA	7.25	130.58	120.29
1	lv	102	SER	N-CA-C	7.25	120.04	111.71
1	lH	193	ASN	CA-CB-CG	7.25	119.85	112.60
1	2b	162	ARG	CA-C-N	7.25	130.58	120.29
1	2b	162	ARG	C-N-CA	7.25	130.58	120.29
1	3N	42	ALA	N-CA-C	7.25	119.81	111.11
1	41	50	GLN	OE1-CD-NE2	-7.25	115.35	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4K	132	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	4Q	24	VAL	O-C-N	-7.25	114.37	121.83
1	5c	126	VAL	O-C-N	-7.25	114.79	121.89
1	5l	166	ASP	N-CA-C	7.25	118.83	111.07
1	5t	31	ALA	O-C-N	-7.25	113.74	122.22
1	7d	72	THR	O-C-N	-7.25	114.44	122.12
1	7Q	134	ILE	N-CA-CB	7.25	119.03	110.55
1	8T	39	MET	CA-C-N	7.25	129.86	120.44
1	8T	39	MET	C-N-CA	7.25	129.86	120.44
1	9N	19	THR	N-CA-CB	7.25	120.52	110.01
1	a5	118	MET	O-C-N	-7.25	112.46	122.46
1	aI	89	GLY	CA-C-N	7.25	128.90	119.84
1	aI	89	GLY	C-N-CA	7.25	128.90	119.84
1	aN	8	GLY	CA-C-N	7.25	133.44	122.93
1	aN	8	GLY	C-N-CA	7.25	133.44	122.93
1	b8	195	ASN	CA-CB-CG	7.25	119.85	112.60
1	bf	62	HIS	N-CA-C	7.25	121.24	111.24
1	18	82	ARG	NE-CZ-NH1	7.25	128.75	121.50
1	bw	122	PRO	CA-C-N	7.25	127.68	119.93
1	bw	122	PRO	C-N-CA	7.25	127.68	119.93
1	bB	91	ILE	N-CA-C	7.25	119.44	109.80
1	cc	5	ASN	CA-C-O	7.25	129.16	121.19
1	cm	116	GLY	O-C-N	-7.25	115.22	122.18
1	ec	133	TRP	N-CA-C	7.25	119.18	111.28
1	ee	113	GLU	N-CA-C	7.25	119.26	111.36
1	ef	87	HIS	ND1-CE1-NE2	7.25	115.65	108.40
1	eg	114	GLN	CA-C-N	7.25	130.71	120.42
1	eg	114	GLN	C-N-CA	7.25	130.71	120.42
1	eJ	32	PHE	CA-CB-CG	-7.25	106.55	113.80
1	y	133	TRP	CB-CG-CD1	7.25	137.77	126.90
1	5	183	ASN	CA-CB-CG	-7.25	105.35	112.60
1	iE	25	LYS	CA-C-N	7.25	129.69	120.56
1	iE	25	LYS	C-N-CA	7.25	129.69	120.56
1	iM	173	ARG	NE-CZ-NH2	-7.25	112.68	119.20
1	kG	52	LEU	N-CA-C	7.25	120.22	111.82
1	kQ	41	SER	CA-C-N	7.25	129.99	120.28
1	kQ	41	SER	C-N-CA	7.25	129.99	120.28
1	kY	74	ASN	N-CA-CB	7.25	120.77	110.12
1	lu	73	ILE	CA-C-O	7.25	128.29	120.47
1	2J	55	MET	N-CA-C	7.25	119.18	111.28
1	2R	18	ARG	N-CA-C	7.25	119.18	111.28
1	37	155	GLN	OE1-CD-NE2	-7.25	115.36	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4b	224	PRO	CB-CA-C	7.25	123.52	111.56
1	4x	45	GLU	N-CA-C	7.25	120.10	111.33
1	5r	82	ARG	NE-CZ-NH2	-7.25	112.68	119.20
1	5y	102	SER	N-CA-C	7.25	120.04	111.71
1	5F	126	VAL	CA-C-N	7.25	127.84	119.94
1	5F	126	VAL	C-N-CA	7.25	127.84	119.94
1	5W	166	ASP	CA-C-N	7.25	129.86	120.44
1	5W	166	ASP	C-N-CA	7.25	129.86	120.44
1	62	171	THR	CA-C-N	7.25	129.99	120.28
1	62	171	THR	C-N-CA	7.25	129.99	120.28
1	6G	25	LYS	N-CA-CB	7.25	121.38	110.22
1	8i	87	HIS	ND1-CE1-NE2	7.25	115.64	108.40
1	98	189	LEU	N-CA-C	7.25	119.18	111.28
1	9B	198	CYS	CA-C-N	7.25	130.31	120.38
1	9B	198	CYS	C-N-CA	7.25	130.31	120.38
1	ai	62	HIS	CB-CG-ND1	-7.25	111.83	122.70
1	b0	11	VAL	O-C-N	-7.25	115.75	123.14
1	b8	118	MET	CG-SD-CE	-7.25	84.96	100.90
1	cD	138	LEU	N-CA-C	7.25	119.18	111.28
1	1l	86	VAL	O-C-N	-7.25	115.75	123.14
1	e4	26	VAL	O-C-N	-7.25	114.81	121.91
1	eQ	201	ILE	O-C-N	-7.25	114.81	121.91
1	f0	126	VAL	N-CA-C	7.25	118.01	110.62
1	fq	84	HIS	CA-C-N	7.25	127.28	119.89
1	fq	84	HIS	C-N-CA	7.25	127.28	119.89
1	fE	214	MET	CA-C-O	7.25	128.16	120.70
1	fL	172	LEU	CA-C-O	7.25	128.23	120.55
1	g3	116	GLY	N-CA-C	7.25	121.42	112.73
1	l	132	ARG	NE-CZ-NH2	-7.25	112.68	119.20
1	s	140	LYS	CA-C-O	7.25	128.34	119.79
1	gj	83	LEU	O-C-N	-7.24	112.72	122.43
1	i2	36	VAL	N-CA-CB	7.24	119.03	110.55
1	ik	26	VAL	CA-CB-CG2	-7.24	98.08	110.40
1	iB	219	GLN	CB-CG-CD	7.24	124.91	112.60
1	jd	126	VAL	N-CA-C	7.24	120.10	111.05
1	jJ	163	ASP	CA-CB-CG	7.24	119.84	112.60
1	21	73	ILE	N-CA-C	7.24	118.01	110.62
1	22	173	ARG	NE-CZ-NH2	7.24	125.72	119.20
1	kU	226	HIS	CA-CB-CG	7.24	121.04	113.80
1	2d	91	ILE	CA-C-O	7.24	129.29	120.74
1	2R	114	GLN	OE1-CD-NE2	-7.24	115.36	122.60
1	33	124	ILE	CB-CA-C	-7.24	102.52	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	167	ARG	CA-C-N	7.24	129.86	120.44
1	38	167	ARG	C-N-CA	7.24	129.86	120.44
1	3g	132	ARG	CA-C-N	7.24	129.99	120.28
1	3g	132	ARG	C-N-CA	7.24	129.99	120.28
1	3s	143	ARG	O-C-N	-7.24	114.44	122.12
1	3D	104	ILE	N-CA-C	7.24	118.01	110.62
1	3J	81	ASP	N-CA-C	7.24	119.18	111.28
1	3X	159	GLU	N-CA-C	7.24	118.84	109.64
1	4e	179	GLN	CA-C-N	7.24	130.30	120.38
1	4e	179	GLN	C-N-CA	7.24	130.30	120.38
1	4P	209	ALA	N-CA-C	7.24	120.73	110.23
1	6H	139	ASN	N-CA-C	7.24	119.17	111.28
1	77	178	SER	N-CA-C	7.24	119.66	110.24
1	77	219	GLN	CA-C-N	7.24	127.83	119.94
1	77	219	GLN	C-N-CA	7.24	127.83	119.94
1	80	34	PRO	CA-C-N	7.24	131.32	120.31
1	80	34	PRO	C-N-CA	7.24	131.32	120.31
1	8d	41	SER	CA-C-N	7.24	130.30	120.38
1	8d	41	SER	C-N-CA	7.24	130.30	120.38
1	9j	22	ALA	CA-C-N	7.24	130.32	120.54
1	9j	22	ALA	C-N-CA	7.24	130.32	120.54
1	aU	132	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	19	52	LEU	CA-C-N	7.24	129.99	120.28
1	19	52	LEU	C-N-CA	7.24	129.99	120.28
1	bW	157	PRO	O-C-N	-7.24	112.31	122.38
1	bZ	40	PHE	CA-CB-CG	7.24	121.04	113.80
1	bZ	204	ALA	N-CA-C	7.24	120.10	111.33
1	d4	162	ARG	NE-CZ-NH2	-7.24	112.68	119.20
1	di	135	ILE	CA-C-N	7.24	129.86	120.44
1	di	135	ILE	C-N-CA	7.24	129.86	120.44
1	du	200	THR	N-CA-CB	7.24	120.77	110.12
1	1q	99	PRO	CB-CA-C	-7.24	102.29	111.71
1	ex	16	SER	CA-C-O	-7.24	113.72	119.66
1	eD	56	LEU	N-CA-C	7.24	118.82	111.07
1	eW	41	SER	CA-C-N	7.24	129.99	120.28
1	eW	41	SER	C-N-CA	7.24	129.99	120.28
1	fd	59	VAL	O-C-N	-7.24	115.57	123.18
1	fw	92	GLU	N-CA-C	7.24	117.93	109.60
1	fG	84	HIS	CG-CD2-NE2	7.24	114.44	107.20
1	fJ	111	LEU	CA-C-N	7.24	130.29	120.44
1	fJ	111	LEU	C-N-CA	7.24	130.29	120.44
1	fK	119	THR	CA-CB-OG1	7.24	120.47	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	33	SER	CA-C-O	-7.24	112.73	119.76
1	g5	57	ASN	N-CA-C	7.24	119.17	111.28
1	hs	41	SER	CA-C-N	7.24	129.98	120.28
1	hs	41	SER	C-N-CA	7.24	129.98	120.28
1	hH	162	ARG	N-CA-C	7.24	121.02	111.75
1	i0	224	PRO	CA-C-N	7.24	128.02	119.98
1	i0	224	PRO	C-N-CA	7.24	128.02	119.98
1	iC	56	LEU	N-CA-C	7.24	118.82	111.07
1	iG	36	VAL	CA-C-N	7.24	126.12	120.33
1	iG	36	VAL	C-N-CA	7.24	126.12	120.33
1	je	167	ARG	N-CA-C	7.24	119.17	111.28
1	jm	116	GLY	CA-C-N	7.24	129.85	120.44
1	jm	116	GLY	C-N-CA	7.24	129.85	120.44
1	2u	212	GLU	CA-C-N	7.24	129.85	120.44
1	2u	212	GLU	C-N-CA	7.24	129.85	120.44
1	2F	195	ASN	OD1-CG-ND2	-7.24	115.36	122.60
1	2L	15	ILE	O-C-N	-7.24	114.72	122.61
1	2Z	106	GLY	CA-C-N	7.24	130.48	120.63
1	2Z	106	GLY	C-N-CA	7.24	130.48	120.63
1	4L	200	THR	O-C-N	-7.24	114.44	122.12
1	5F	103	ASP	CA-C-N	7.24	130.38	120.46
1	5F	103	ASP	C-N-CA	7.24	130.38	120.46
1	5K	64	ALA	CA-C-N	7.24	134.84	121.52
1	5K	64	ALA	C-N-CA	7.24	134.84	121.52
1	60	226	HIS	CB-CG-ND1	7.24	133.56	122.70
1	9f	46	GLY	CA-C-N	7.24	131.74	121.02
1	9f	46	GLY	C-N-CA	7.24	131.74	121.02
1	aQ	2	ILE	CA-CB-CG2	7.24	122.81	110.50
1	cr	135	ILE	N-CA-C	7.24	118.01	110.62
1	dx	41	SER	CA-C-N	7.24	131.32	120.31
1	dx	41	SER	C-N-CA	7.24	131.32	120.31
1	e7	211	LEU	N-CA-C	7.24	120.22	111.82
1	fg	84	HIS	CA-C-N	7.24	128.22	120.11
1	fg	84	HIS	C-N-CA	7.24	128.22	120.11
1	1	186	THR	N-CA-C	7.24	119.25	111.36
1	gY	226	HIS	ND1-CE1-NE2	7.24	115.64	108.40
1	hm	176	GLN	OE1-CD-NE2	-7.24	115.36	122.60
1	hw	150	ILE	N-CA-C	7.24	118.03	110.72
1	hF	75	GLU	CA-C-N	7.24	132.96	120.58
1	hF	75	GLU	C-N-CA	7.24	132.96	120.58
1	hU	117	TRP	CA-C-O	7.24	128.22	120.55
1	ia	86	VAL	CA-C-O	-7.24	113.39	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	68	MET	CG-SD-CE	-7.24	84.97	100.90
1	iC	64	ALA	CA-C-N	7.24	129.85	120.44
1	iC	64	ALA	C-N-CA	7.24	129.85	120.44
1	iR	51	ASP	CA-CB-CG	-7.24	105.36	112.60
1	jg	180	GLU	CA-C-N	7.24	129.68	120.56
1	jg	180	GLU	C-N-CA	7.24	129.68	120.56
1	jQ	72	THR	N-CA-C	7.24	118.82	111.07
1	ks	10	MET	N-CA-C	7.24	120.20	110.35
1	kD	192	GLN	CA-C-O	7.24	128.23	120.55
1	2N	230	VAL	N-CA-CB	7.24	119.06	110.95
1	2U	189	LEU	N-CA-C	7.24	120.04	111.71
1	2V	167	ARG	NE-CZ-NH2	-7.24	112.68	119.20
1	3x	202	LEU	N-CA-C	7.24	119.17	111.28
1	3P	192	GLN	N-CA-C	7.24	119.17	111.28
1	3T	48	THR	N-CA-CB	7.24	120.68	110.11
1	4U	40	PHE	CA-C-N	7.24	129.85	120.44
1	4U	40	PHE	C-N-CA	7.24	129.85	120.44
1	51	198	CYS	CA-C-N	7.24	129.98	120.28
1	51	198	CYS	C-N-CA	7.24	129.98	120.28
1	64	82	ARG	NE-CZ-NH2	-7.24	112.68	119.20
1	65	173	ARG	N-CA-C	7.24	119.17	111.28
1	7z	134	ILE	O-C-N	-7.24	114.85	121.87
1	7z	198	CYS	O-C-N	-7.24	113.89	122.15
1	7R	74	ASN	CA-C-N	7.24	129.85	120.44
1	7R	74	ASN	C-N-CA	7.24	129.85	120.44
1	8A	24	VAL	N-CA-C	7.24	118.01	110.62
1	8A	225	GLY	O-C-N	7.24	132.11	122.70
1	8P	104	ILE	O-C-N	-7.24	114.85	121.87
1	9I	62	HIS	CA-CB-CG	7.24	121.04	113.80
1	9K	77	ALA	CA-C-N	7.24	129.98	120.28
1	9K	77	ALA	C-N-CA	7.24	129.98	120.28
1	aO	103	ASP	CA-C-N	7.24	130.38	120.46
1	aO	103	ASP	C-N-CA	7.24	130.38	120.46
1	bK	193	ASN	CA-CB-CG	7.24	119.84	112.60
1	cB	92	GLU	N-CA-C	7.24	125.81	109.81
1	de	228	ALA	O-C-N	-7.24	113.90	122.81
1	1m	195	ASN	CB-CA-C	7.24	122.50	109.61
1	1p	226	HIS	CE1-NE2-CD2	-7.24	101.76	109.00
1	eK	127	GLY	CA-C-N	7.24	129.98	120.28
1	eK	127	GLY	C-N-CA	7.24	129.98	120.28
1	1u	168	PHE	CB-CA-C	7.24	122.81	110.79
1	fG	33	SER	N-CA-C	-7.24	98.77	108.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fO	202	LEU	N-CA-C	7.24	118.82	111.07
1	g3	229	ARG	CA-C-N	7.24	131.94	121.80
1	g3	229	ARG	C-N-CA	7.24	131.94	121.80
1	v	103	ASP	O-C-N	-7.24	114.61	122.07
1	gD	132	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	gL	74	ASN	CA-CB-CG	-7.24	105.36	112.60
1	h5	212	GLU	N-CA-C	7.24	120.09	111.33
1	he	48	THR	N-CA-CB	7.24	118.14	109.74
1	hx	195	ASN	CA-C-O	-7.24	112.95	119.75
1	i0	172	LEU	N-CA-C	7.24	119.17	111.28
1	iA	143	ARG	CD-NE-CZ	7.24	134.53	124.40
1	jb	104	ILE	N-CA-C	7.24	118.00	110.62
1	1U	117	TRP	O-C-N	-7.24	113.75	122.22
1	1Y	78	ALA	N-CA-C	7.24	119.17	111.28
1	kj	170	LYS	CA-C-O	7.24	128.42	120.82
1	lC	102	SER	N-CA-C	7.24	119.17	111.28
1	lF	5	ASN	CA-C-N	7.24	132.42	122.07
1	lF	5	ASN	C-N-CA	7.24	132.42	122.07
1	2R	92	GLU	CA-C-O	-7.24	113.68	120.34
1	3a	139	ASN	CA-C-N	7.24	129.85	120.44
1	3a	139	ASN	C-N-CA	7.24	129.85	120.44
1	3r	99	PRO	O-C-N	-7.24	117.59	122.73
1	3u	67	GLN	N-CA-C	7.24	119.80	111.11
1	4M	7	GLN	CG-CD-OE1	7.24	135.28	120.80
1	4P	58	THR	N-CA-CB	7.24	121.37	110.22
1	5o	180	GLU	N-CA-C	7.24	119.17	111.28
1	5u	138	LEU	CA-C-N	7.24	130.30	120.38
1	5u	138	LEU	C-N-CA	7.24	130.30	120.38
1	5Y	167	ARG	CA-C-N	7.24	130.85	120.79
1	5Y	167	ARG	C-N-CA	7.24	130.85	120.79
1	7j	21	ASN	CA-CB-CG	7.24	119.84	112.60
1	7H	152	ASP	CA-CB-CG	7.24	119.84	112.60
1	8o	57	ASN	N-CA-C	7.24	120.03	111.71
1	8U	9	GLN	OE1-CD-NE2	-7.24	115.36	122.60
1	8X	37	ILE	O-C-N	-7.24	115.79	120.42
1	ak	48	THR	N-CA-CB	7.24	120.68	110.11
1	ap	136	LEU	N-CA-C	7.24	120.03	111.71
1	as	225	GLY	O-C-N	-7.24	115.09	121.97
1	av	98	GLU	O-C-N	-7.24	113.84	121.30
1	ba	175	GLU	N-CA-C	7.24	120.99	110.28
1	cd	230	VAL	N-CA-C	7.24	120.06	109.63
1	1d	190	LEU	O-C-N	-7.24	114.45	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cy	81	ASP	CA-C-N	7.24	129.98	120.28
1	cy	81	ASP	C-N-CA	7.24	129.98	120.28
1	cH	82	ARG	CA-C-O	7.24	127.79	119.18
1	dm	9	GLN	N-CA-C	-7.24	104.25	113.23
1	e6	145	TYR	N-CA-C	7.24	120.09	111.33
1	eD	104	ILE	CA-C-O	7.24	128.84	121.17
1	eV	186	THR	CA-C-N	7.24	130.57	120.29
1	eV	186	THR	C-N-CA	7.24	130.57	120.29
1	f7	173	ARG	N-CA-C	7.24	118.82	111.07
1	fV	173	ARG	NE-CZ-NH2	-7.24	112.69	119.20
1	1B	97	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	V	116	GLY	CA-C-O	7.24	127.84	120.09
1	5	82	ARG	NE-CZ-NH2	7.24	125.72	119.20
1	6	181	VAL	O-C-N	-7.24	114.37	121.90
1	gs	21	ASN	CA-C-N	7.24	129.98	120.28
1	gs	21	ASN	C-N-CA	7.24	129.98	120.28
1	iB	179	GLN	N-CA-CB	7.24	120.76	110.12
1	iU	53	ASN	CA-CB-CG	-7.24	105.36	112.60
1	jJ	53	ASN	N-CA-C	7.24	120.09	111.33
1	kb	156	GLY	O-C-N	-7.24	114.53	121.77
1	ky	168	PHE	CA-C-O	7.24	128.09	120.42
1	2U	80	TRP	CA-C-O	7.24	129.03	121.07
1	6n	98	GLU	CA-C-N	7.24	127.21	119.76
1	6n	98	GLU	C-N-CA	7.24	127.21	119.76
1	6x	62	HIS	CA-C-N	7.24	130.70	120.28
1	6x	62	HIS	C-N-CA	7.24	130.70	120.28
1	7s	91	ILE	N-CA-C	-7.24	98.04	108.17
1	8h	120	HIS	CE1-NE2-CD2	-7.24	101.76	109.00
1	a7	50	GLN	N-CA-C	7.24	119.17	111.28
1	cu	221	VAL	N-CA-C	-7.24	104.24	111.77
1	cK	112	GLN	N-CA-CB	7.24	120.76	110.12
1	cM	23	TRP	O-C-N	-7.24	114.34	122.08
1	dE	202	LEU	N-CA-C	7.24	119.17	111.28
1	eM	57	ASN	CA-CB-CG	-7.24	105.36	112.60
1	eS	67	GLN	CA-C-O	7.24	127.10	119.14
1	K	162	ARG	N-CA-C	7.24	119.17	111.28
1	hr	114	GLN	O-C-N	-7.24	114.62	122.07
1	if	126	VAL	N-CA-C	7.24	117.96	110.36
1	ii	68	MET	CA-C-N	7.24	129.85	120.44
1	ii	68	MET	C-N-CA	7.24	129.85	120.44
1	1S	53	ASN	CA-C-N	7.24	130.31	120.54
1	1S	53	ASN	C-N-CA	7.24	130.31	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iZ	159	GLU	CA-C-O	-7.24	113.18	120.63
1	jc	84	HIS	N-CA-C	7.24	118.47	109.57
1	jd	73	ILE	CA-C-N	7.24	129.84	120.44
1	jd	73	ILE	C-N-CA	7.24	129.84	120.44
1	ln	67	GLN	O-C-N	-7.24	114.45	122.12
1	29	100	ARG	O-C-N	-7.24	113.75	122.65
1	36	77	ALA	CA-C-N	7.24	130.20	120.65
1	36	77	ALA	C-N-CA	7.24	130.20	120.65
1	3y	135	ILE	N-CA-C	7.24	118.00	110.62
1	3P	162	ARG	NE-CZ-NH2	-7.24	112.69	119.20
1	3S	165	VAL	O-C-N	-7.24	114.85	121.87
1	4Q	55	MET	CA-C-N	7.24	130.31	120.54
1	4Q	55	MET	C-N-CA	7.24	130.31	120.54
1	5l	81	ASP	N-CA-C	7.24	119.25	111.36
1	5p	132	ARG	NE-CZ-NH1	7.24	128.74	121.50
1	5K	5	ASN	CA-C-N	7.24	131.31	120.31
1	5K	5	ASN	C-N-CA	7.24	131.31	120.31
1	7q	5	ASN	O-C-N	-7.24	113.57	122.25
1	7K	84	HIS	CA-CB-CG	-7.24	106.56	113.80
1	8C	179	GLN	N-CA-C	7.24	119.17	111.28
1	8W	78	ALA	CA-C-N	7.24	129.85	120.44
1	8W	78	ALA	C-N-CA	7.24	129.85	120.44
1	8Z	170	LYS	CA-C-N	7.24	129.85	120.44
1	8Z	170	LYS	C-N-CA	7.24	129.85	120.44
1	9r	55	MET	CA-C-N	7.24	129.98	120.28
1	9r	55	MET	C-N-CA	7.24	129.98	120.28
1	Z	210	THR	O-C-N	-7.24	113.91	122.81
1	a8	169	TYR	CA-CB-CG	-7.24	100.88	113.90
1	b1	30	LYS	N-CA-C	-7.24	104.60	113.50
1	16	24	VAL	CA-C-N	7.24	129.97	120.28
1	16	24	VAL	C-N-CA	7.24	129.97	120.28
1	bc	136	LEU	N-CA-C	7.24	119.17	111.28
1	br	169	TYR	N-CA-C	7.24	119.17	111.28
1	bz	82	ARG	N-CA-C	7.24	118.81	111.07
1	bC	75	GLU	CA-C-N	7.24	129.98	120.28
1	bC	75	GLU	C-N-CA	7.24	129.98	120.28
1	c7	24	VAL	CA-CB-CG2	-7.24	98.10	110.40
1	ck	51	ASP	CA-C-O	7.24	128.09	120.42
1	cu	73	ILE	O-C-N	7.24	128.89	121.87
1	df	166	ASP	N-CA-C	7.24	119.17	111.28
1	du	103	ASP	CA-C-N	7.24	129.82	120.56
1	du	103	ASP	C-N-CA	7.24	129.82	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e7	133	TRP	CA-C-N	7.24	130.37	120.46
1	e7	133	TRP	C-N-CA	7.24	130.37	120.46
1	ew	191	VAL	N-CA-C	7.24	118.03	110.72
1	eZ	195	ASN	CB-CA-C	7.24	120.92	109.27
1	fp	37	ILE	O-C-N	-7.24	115.79	120.42
1	fT	100	ARG	CA-C-N	7.24	128.17	119.99
1	fT	100	ARG	C-N-CA	7.24	128.17	119.99
1	v	86	VAL	N-CA-C	7.24	124.39	109.34
1	3	200	THR	CA-C-N	7.24	129.68	120.56
1	3	200	THR	C-N-CA	7.24	129.68	120.56
1	gR	6	LEU	N-CA-CB	7.23	122.72	110.49
1	ij	59	VAL	O-C-N	-7.23	115.77	122.79
1	is	84	HIS	CA-C-O	-7.23	113.70	119.99
1	iO	133	TRP	CB-CG-CD2	-7.23	116.67	126.80
1	lb	37	ILE	N-CA-CB	7.23	116.09	110.45
1	lM	211	LEU	N-CA-C	7.23	119.17	111.28
1	2f	219	GLN	O-C-N	-7.23	114.73	123.27
1	2g	166	ASP	O-C-N	-7.23	114.45	122.12
1	3R	70	LYS	N-CA-C	7.23	119.17	111.28
1	49	77	ALA	O-C-N	-7.23	114.45	122.12
1	4s	133	TRP	CB-CG-CD2	-7.23	116.67	126.80
1	4F	161	PHE	CA-C-N	7.23	130.70	120.28
1	4F	161	PHE	C-N-CA	7.23	130.70	120.28
1	4L	141	ILE	CA-C-N	7.23	129.68	120.56
1	4L	141	ILE	C-N-CA	7.23	129.68	120.56
1	76	176	GLN	N-CA-C	-7.23	102.76	113.61
1	7g	14	ALA	CA-C-N	7.23	130.41	120.35
1	7g	14	ALA	C-N-CA	7.23	130.41	120.35
1	8D	185	MET	O-C-N	-7.23	114.45	122.12
1	8M	154	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	9N	62	HIS	N-CA-C	7.23	121.37	111.39
1	as	75	GLU	O-C-N	-7.23	114.45	122.12
1	bu	82	ARG	N-CA-C	7.23	119.17	111.28
1	d1	117	TRP	N-CA-C	7.23	120.21	111.82
1	d7	153	ILE	N-CA-C	7.23	118.70	108.93
1	ds	3	VAL	O-C-N	-7.23	115.96	122.69
1	dN	7	GLN	CA-C-O	-7.23	113.49	121.23
1	dW	84	HIS	CA-CB-CG	-7.23	106.57	113.80
1	et	144	MET	CA-C-N	7.23	134.96	122.95
1	et	144	MET	C-N-CA	7.23	134.96	122.95
1	A	119	THR	N-CA-CB	7.23	121.48	110.70
1	4	56	LEU	N-CA-C	7.23	119.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	122	PRO	CA-C-N	7.23	127.27	119.89
1	ga	122	PRO	C-N-CA	7.23	127.27	119.89
1	gA	80	TRP	CB-CG-CD1	-7.23	116.05	126.90
1	gE	112	GLN	CA-C-N	7.23	130.28	120.44
1	gE	112	GLN	C-N-CA	7.23	130.28	120.44
1	gX	173	ARG	N-CA-C	7.23	120.08	111.33
1	hF	9	GLN	CA-C-N	7.23	131.67	120.75
1	hF	9	GLN	C-N-CA	7.23	131.67	120.75
1	i5	18	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	ie	48	THR	N-CA-CB	7.23	118.13	109.74
1	iK	106	GLY	O-C-N	-7.23	115.32	122.41
1	1X	23	TRP	CB-CG-CD1	-7.23	116.05	126.90
1	jS	46	GLY	N-CA-C	7.23	125.63	115.43
1	kF	68	MET	CA-C-N	7.23	129.84	120.44
1	kF	68	MET	C-N-CA	7.23	129.84	120.44
1	kO	15	ILE	CA-C-O	7.23	129.52	121.13
1	lQ	166	ASP	O-C-N	-7.23	114.62	122.07
1	2k	131	LYS	CA-C-O	7.23	128.22	120.55
1	2K	137	GLY	CA-C-N	7.23	129.84	120.44
1	2K	137	GLY	C-N-CA	7.23	129.84	120.44
1	3t	98	GLU	CA-C-O	-7.23	112.52	120.69
1	3D	197	ASP	CA-CB-CG	7.23	119.83	112.60
1	4o	33	SER	CA-C-O	-7.23	111.48	120.23
1	66	206	GLY	CA-C-N	7.23	127.56	119.32
1	66	206	GLY	C-N-CA	7.23	127.56	119.32
1	6T	75	GLU	N-CA-CB	7.23	120.56	110.07
1	8G	219	GLN	CA-C-N	7.23	129.41	120.22
1	8G	219	GLN	C-N-CA	7.23	129.41	120.22
1	99	126	VAL	N-CA-C	7.23	118.00	110.62
1	9c	132	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	9E	144	MET	N-CA-C	7.23	119.24	111.36
1	9F	74	ASN	O-C-N	-7.23	113.91	122.15
1	9T	94	GLY	CA-C-N	7.23	130.98	120.71
1	9T	94	GLY	C-N-CA	7.23	130.98	120.71
1	au	194	ALA	N-CA-C	7.23	120.44	110.24
1	ay	98	GLU	CA-C-O	-7.23	113.18	120.63
1	az	39	MET	CA-C-N	7.23	129.84	120.44
1	az	39	MET	C-N-CA	7.23	129.84	120.44
1	aX	7	GLN	OE1-CD-NE2	-7.23	115.37	122.60
1	be	62	HIS	CA-C-N	7.23	129.97	120.28
1	be	62	HIS	C-N-CA	7.23	129.97	120.28
1	bo	140	LYS	CA-C-N	7.23	130.69	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	140	LYS	C-N-CA	7.23	130.69	120.42
1	c5	143	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	cp	5	ASN	OD1-CG-ND2	-7.23	115.37	122.60
1	cC	122	PRO	CA-C-N	7.23	128.88	119.84
1	cC	122	PRO	C-N-CA	7.23	128.88	119.84
1	cF	201	ILE	O-C-N	-7.23	114.82	121.91
1	dc	11	VAL	O-C-N	-7.23	115.44	123.03
1	dG	24	VAL	O-C-N	-7.23	114.38	121.83
1	fi	61	GLY	CA-C-N	7.23	133.31	122.68
1	fi	61	GLY	C-N-CA	7.23	133.31	122.68
1	1z	18	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	d	14	ALA	CA-C-O	-7.23	113.48	121.87
1	J	28	GLU	CA-C-O	7.23	128.29	119.97
1	W	204	ALA	N-CA-C	7.23	119.24	111.36
1	gP	142	VAL	N-CA-CB	7.23	118.50	110.62
1	ij	121	ASN	CA-C-N	7.23	127.83	120.38
1	ij	121	ASN	C-N-CA	7.23	127.83	120.38
1	ip	113	GLU	CA-C-N	7.23	130.84	120.79
1	ip	113	GLU	C-N-CA	7.23	130.84	120.79
1	iK	121	ASN	CB-CA-C	-7.23	100.44	110.13
1	j3	36	VAL	N-CA-C	7.23	118.00	110.62
1	j9	213	GLU	N-CA-C	7.23	120.21	111.82
1	1W	226	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
1	lw	210	THR	O-C-N	-7.23	114.22	122.68
1	lL	187	GLU	N-CA-C	7.23	119.16	111.28
1	lN	60	GLY	CA-C-N	7.23	128.32	120.44
1	lN	60	GLY	C-N-CA	7.23	128.32	120.44
1	2F	124	ILE	O-C-N	-7.23	114.27	120.92
1	2G	208	ALA	CA-C-N	7.23	131.01	120.82
1	2G	208	ALA	C-N-CA	7.23	131.01	120.82
1	2L	75	GLU	CA-C-N	7.23	129.97	120.28
1	2L	75	GLU	C-N-CA	7.23	129.97	120.28
1	3I	43	LEU	CA-C-O	7.23	128.22	120.55
1	4h	51	ASP	CB-CA-C	-7.23	98.56	110.85
1	4s	46	GLY	O-C-N	7.23	131.45	122.41
1	4H	75	GLU	N-CA-C	7.23	119.16	111.28
1	4W	148	THR	CA-C-N	7.23	131.45	120.82
1	4W	148	THR	C-N-CA	7.23	131.45	120.82
1	56	52	LEU	CA-C-N	7.23	129.84	120.44
1	56	52	LEU	C-N-CA	7.23	129.84	120.44
1	5F	4	GLN	CA-C-O	7.23	128.51	120.70
1	6r	159	GLU	O-C-N	-7.23	115.17	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6A	74	ASN	CA-C-N	7.23	130.28	120.38
1	6A	74	ASN	C-N-CA	7.23	130.28	120.38
1	6E	193	ASN	CB-CG-ND2	-7.23	105.55	116.40
1	7x	48	THR	CA-C-N	7.23	127.56	119.32
1	7x	48	THR	C-N-CA	7.23	127.56	119.32
1	7z	181	VAL	CB-CA-C	-7.23	102.72	111.97
1	7F	52	LEU	O-C-N	-7.23	113.91	122.15
1	7L	52	LEU	CA-C-N	7.23	129.97	120.28
1	7L	52	LEU	C-N-CA	7.23	129.97	120.28
1	9w	54	THR	N-CA-CB	7.23	120.55	110.07
1	9X	209	ALA	N-CA-C	7.23	120.98	110.28
1	a3	124	ILE	N-CA-C	-7.23	100.46	107.76
1	be	69	LEU	O-C-N	-7.23	114.28	122.09
1	bM	2	ILE	N-CA-CB	7.23	118.60	110.72
1	cf	153	ILE	N-CA-C	7.23	118.38	108.84
1	ck	84	HIS	O-C-N	-7.23	114.74	121.32
1	cq	166	ASP	O-C-N	-7.23	114.46	122.12
1	cG	60	GLY	CA-C-N	7.23	131.28	121.01
1	cG	60	GLY	C-N-CA	7.23	131.28	121.01
1	cG	87	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
1	cX	61	GLY	CA-C-N	7.23	132.66	122.46
1	cX	61	GLY	C-N-CA	7.23	132.66	122.46
1	d5	57	ASN	OD1-CG-ND2	7.23	129.83	122.60
1	do	209	ALA	N-CA-C	7.23	120.98	110.42
1	ds	113	GLU	O-C-N	-7.23	114.45	122.12
1	dI	154	ARG	NH1-CZ-NH2	-7.23	109.90	119.30
1	dL	182	LYS	CA-C-N	7.23	130.30	120.54
1	dL	182	LYS	C-N-CA	7.23	130.30	120.54
1	dM	187	GLU	N-CA-C	7.23	118.81	111.07
1	dU	53	ASN	N-CA-C	7.23	119.16	111.28
1	ei	173	ARG	CA-C-N	7.23	132.17	120.60
1	ei	173	ARG	C-N-CA	7.23	132.17	120.60
1	ew	77	ALA	O-C-N	-7.23	114.62	122.07
1	eA	189	LEU	O-C-N	-7.23	114.45	122.12
1	f	76	GLU	CA-C-N	7.23	129.84	120.44
1	f	76	GLU	C-N-CA	7.23	129.84	120.44
1	3	67	GLN	OE1-CD-NE2	-7.23	115.37	122.60
1	5	110	THR	O-C-N	-7.23	114.61	122.85
1	gu	84	HIS	CG-CD2-NE2	7.23	114.43	107.20
1	gJ	10	MET	O-C-N	-7.23	114.73	123.19
1	1N	119	THR	CA-C-O	7.23	127.73	119.27
1	kv	198	CYS	CA-C-N	7.23	129.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kv	198	CYS	C-N-CA	7.23	129.97	120.28
1	3b	84	HIS	O-C-N	-7.23	114.84	121.42
1	3k	87	HIS	O-C-N	-7.23	114.51	123.33
1	5z	97	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	6b	113	GLU	N-CA-C	7.23	118.95	111.14
1	82	33	SER	O-C-N	-7.23	113.42	121.66
1	9q	32	PHE	CA-C-O	-7.23	111.18	119.78
1	d7	42	ALA	N-CA-C	7.23	119.16	111.28
1	1o	187	GLU	N-CA-C	7.23	120.20	111.82
1	eS	170	LYS	CA-C-O	7.23	128.21	120.55
1	fd	132	ARG	N-CA-C	7.23	119.16	111.28
1	P	64	ALA	CA-C-N	7.23	130.28	120.38
1	P	64	ALA	C-N-CA	7.23	130.28	120.38
1	R	18	ARG	CA-C-N	7.23	129.84	120.44
1	R	18	ARG	C-N-CA	7.23	129.84	120.44
1	h4	54	THR	CA-C-N	7.23	129.96	120.28
1	h4	54	THR	C-N-CA	7.23	129.96	120.28
1	ho	132	ARG	CA-C-N	7.23	129.97	120.28
1	ho	132	ARG	C-N-CA	7.23	129.97	120.28
1	hv	172	LEU	N-CA-C	7.23	119.16	111.28
1	hz	200	THR	CA-C-N	7.23	129.67	120.56
1	hz	200	THR	C-N-CA	7.23	129.67	120.56
1	hP	120	HIS	CB-CG-CD2	-7.23	121.80	131.20
1	hX	124	ILE	O-C-N	-7.23	115.82	121.46
1	ib	19	THR	CA-C-O	7.23	128.28	119.97
1	if	132	ARG	NE-CZ-NH2	-7.23	112.70	119.20
1	j8	100	ARG	NE-CZ-NH2	-7.23	112.70	119.20
1	kV	174	ALA	CA-C-N	7.23	130.97	120.71
1	kV	174	ALA	C-N-CA	7.23	130.97	120.71
1	l1	116	GLY	O-C-N	-7.23	115.18	122.19
1	l7	29	GLU	N-CA-C	7.23	118.80	111.07
1	26	117	TRP	CE2-CD2-CE3	7.23	126.03	118.80
1	lf	23	TRP	CA-C-O	7.23	128.41	120.82
1	lr	67	GLN	CA-C-N	7.23	129.96	120.28
1	lr	67	GLN	C-N-CA	7.23	129.96	120.28
1	29	84	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
1	lG	221	VAL	CA-C-O	-7.23	114.35	121.58
1	lR	174	ALA	O-C-N	-7.23	113.66	122.19
1	38	12	HIS	N-CA-C	7.23	120.71	110.23
1	3A	5	ASN	N-CA-C	7.23	122.62	109.32
1	3S	180	GLU	N-CA-C	7.23	120.20	111.82
1	4n	162	ARG	NE-CZ-NH2	-7.23	112.70	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4v	143	ARG	NE-CZ-NH2	-7.23	112.69	119.20
1	4E	120	HIS	CA-CB-CG	-7.23	106.57	113.80
1	5E	76	GLU	CB-CG-CD	-7.23	100.31	112.60
1	7q	151	LEU	N-CA-C	7.23	119.16	111.28
1	7s	39	MET	CA-C-N	7.23	130.30	120.54
1	7s	39	MET	C-N-CA	7.23	130.30	120.54
1	7u	88	ALA	N-CA-C	7.23	120.69	110.50
1	7v	161	PHE	N-CA-C	7.23	119.16	111.28
1	8j	129	ILE	N-CA-CB	7.23	118.50	110.62
1	95	145	TYR	O-C-N	-7.23	113.46	122.35
1	9r	97	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	ap	213	GLU	O-C-N	-7.23	114.46	122.12
1	ax	23	TRP	CA-CB-CG	7.23	127.33	113.60
1	aC	30	LYS	CA-C-O	-7.23	112.89	120.55
1	aH	178	SER	O-C-N	-7.23	114.33	122.86
1	aP	153	ILE	CA-C-O	7.23	129.03	121.59
1	bC	211	LEU	CA-C-N	7.23	129.97	120.28
1	bC	211	LEU	C-N-CA	7.23	129.97	120.28
1	bD	114	GLN	N-CA-C	7.23	118.80	111.07
1	1f	68	MET	CA-C-N	7.23	129.97	120.28
1	1f	68	MET	C-N-CA	7.23	129.97	120.28
1	cR	80	TRP	CB-CG-CD2	7.23	136.92	126.80
1	dC	80	TRP	O-C-N	-7.23	114.46	122.12
1	e9	167	ARG	NE-CZ-NH1	7.23	128.73	121.50
1	eN	159	GLU	CA-C-N	7.23	127.66	119.93
1	eN	159	GLU	C-N-CA	7.23	127.66	119.93
1	f8	62	HIS	N-CA-C	7.23	121.21	111.24
1	fd	91	ILE	CA-C-N	7.23	130.12	120.58
1	fd	91	ILE	C-N-CA	7.23	130.12	120.58
1	fo	82	ARG	NE-CZ-NH2	-7.23	112.70	119.20
1	fs	140	LYS	N-CA-C	7.23	119.16	111.28
1	fR	17	PRO	CA-C-N	7.23	129.97	120.28
1	fR	17	PRO	C-N-CA	7.23	129.97	120.28
1	fY	137	GLY	O-C-N	-7.23	115.18	122.19
1	W	226	HIS	CA-C-N	7.23	131.01	120.82
1	W	226	HIS	C-N-CA	7.23	131.01	120.82
1	gr	14	ALA	N-CA-C	7.23	120.18	110.35
1	gA	107	THR	O-C-N	-7.23	112.68	122.36
1	hA	23	TRP	N-CA-C	7.23	119.16	111.28
1	ix	53	ASN	N-CA-CB	7.23	120.49	110.01
1	iT	201	ILE	CA-C-N	7.23	129.83	120.44
1	iT	201	ILE	C-N-CA	7.23	129.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kj	126	VAL	O-C-N	-7.23	114.81	121.89
1	2O	160	PRO	N-CA-CB	-7.23	96.62	103.34
1	35	9	GLN	O-C-N	-7.23	114.03	123.21
1	3f	179	GLN	N-CA-C	7.23	119.78	111.11
1	5X	162	ARG	N-CA-C	7.23	120.07	111.33
1	7m	185	MET	N-CA-C	7.23	119.78	111.11
1	7G	123	PRO	CB-CA-C	7.23	120.44	110.98
1	82	111	LEU	O-C-N	-7.23	114.46	122.12
1	8y	43	LEU	N-CA-CB	-7.23	99.50	110.12
1	1b	135	ILE	N-CA-C	-7.23	103.48	110.42
1	c1	192	GLN	O-C-N	-7.23	114.46	122.12
1	dp	129	ILE	CB-CA-C	7.23	121.22	111.97
1	fB	122	PRO	N-CA-CB	7.23	110.55	102.60
1	fP	201	ILE	N-CA-C	7.23	117.99	110.62
1	b	146	SER	CA-C-N	7.23	126.86	119.56
1	b	146	SER	C-N-CA	7.23	126.86	119.56
1	hW	154	ARG	NE-CZ-NH1	-7.22	114.28	121.50
1	hZ	12	HIS	N-CA-C	7.22	120.80	109.96
1	iL	33	SER	N-CA-C	-7.22	100.07	110.40
1	jr	14	ALA	N-CA-C	7.22	120.71	110.23
1	jF	189	LEU	N-CA-C	7.22	119.15	111.28
1	jN	70	LYS	N-CA-C	7.22	119.78	111.11
1	kq	27	VAL	N-CA-C	7.22	117.99	110.62
1	26	162	ARG	CA-C-N	7.22	129.96	120.28
1	26	162	ARG	C-N-CA	7.22	129.96	120.28
1	lb	207	PRO	N-CA-C	7.22	123.30	113.98
1	ld	175	GLU	N-CA-C	7.22	121.68	113.01
1	28	135	ILE	N-CA-C	7.22	117.95	110.36
1	lA	24	VAL	CA-CB-CG2	-7.22	98.12	110.40
1	3s	48	THR	CA-C-N	7.22	127.56	119.32
1	3s	48	THR	C-N-CA	7.22	127.56	119.32
1	3z	36	VAL	CA-C-N	7.22	127.37	120.43
1	3z	36	VAL	C-N-CA	7.22	127.37	120.43
1	3J	5	ASN	CA-CB-CG	7.22	119.83	112.60
1	4h	156	GLY	CA-C-N	7.22	128.87	119.84
1	4h	156	GLY	C-N-CA	7.22	128.87	119.84
1	5G	163	ASP	N-CA-C	7.22	120.07	111.33
1	65	11	VAL	O-C-N	-7.22	113.43	122.97
1	69	88	ALA	N-CA-C	7.22	120.97	110.42
1	6w	200	THR	N-CA-C	7.22	119.23	111.36
1	7e	134	ILE	CA-C-N	7.22	129.66	120.56
1	7e	134	ILE	C-N-CA	7.22	129.66	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	143	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	8v	57	ASN	CA-CB-CG	-7.22	105.38	112.60
1	9q	82	ARG	CA-C-N	7.22	129.83	120.44
1	9q	82	ARG	C-N-CA	7.22	129.83	120.44
1	Z	225	GLY	CA-C-O	-7.22	116.44	122.29
1	10	163	ASP	CA-CB-CG	-7.22	105.38	112.60
1	ac	39	MET	CA-C-N	7.22	129.96	120.28
1	ac	39	MET	C-N-CA	7.22	129.96	120.28
1	aX	99	PRO	N-CA-CB	7.22	110.05	103.19
1	br	42	ALA	N-CA-C	7.22	119.16	111.28
1	bE	95	GLN	CA-C-O	-7.22	113.05	120.71
1	c2	12	HIS	CA-CB-CG	7.22	121.02	113.80
1	cE	101	GLY	CA-C-N	7.22	129.83	120.44
1	cE	101	GLY	C-N-CA	7.22	129.83	120.44
1	cR	30	LYS	N-CA-CB	-7.22	99.91	110.53
1	db	78	ALA	CA-C-N	7.22	130.29	120.54
1	db	78	ALA	C-N-CA	7.22	130.29	120.54
1	dz	79	GLU	CA-C-N	7.22	129.83	120.44
1	dz	79	GLU	C-N-CA	7.22	129.83	120.44
1	fl	194	ALA	CA-C-N	7.22	130.43	120.39
1	fl	194	ALA	C-N-CA	7.22	130.43	120.39
1	fo	133	TRP	CA-C-N	7.22	129.81	120.56
1	fo	133	TRP	C-N-CA	7.22	129.81	120.56
1	h	40	PHE	CA-CB-CG	-7.22	106.58	113.80
1	m	181	VAL	O-C-N	-7.22	114.39	121.83
1	r	113	GLU	CA-C-N	7.22	129.96	120.28
1	r	113	GLU	C-N-CA	7.22	129.96	120.28
1	F	92	GLU	N-CA-C	7.22	120.05	110.08
1	V	189	LEU	N-CA-C	7.22	122.27	113.38
1	6	36	VAL	N-CA-C	7.22	117.99	110.62
1	gQ	95	GLN	O-C-N	-7.22	113.99	122.87
1	gZ	221	VAL	N-CA-C	-7.22	97.20	107.75
1	h5	104	ILE	N-CA-C	7.22	118.01	110.72
1	i8	92	GLU	CA-C-N	7.22	128.87	119.84
1	i8	92	GLU	C-N-CA	7.22	128.87	119.84
1	1P	100	ARG	CA-C-N	7.22	128.15	119.99
1	1P	100	ARG	C-N-CA	7.22	128.15	119.99
1	iJ	68	MET	N-CA-C	7.22	118.80	111.07
1	jx	1	PRO	N-CA-CB	7.22	110.94	103.00
1	jU	161	PHE	O-C-N	-7.22	113.92	122.15
1	kk	8	GLY	O-C-N	-7.22	113.22	122.39
1	23	12	HIS	CA-CB-CG	-7.22	106.58	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	93	PRO	CA-C-N	7.22	135.57	121.41
1	l1	93	PRO	C-N-CA	7.22	135.57	121.41
1	l9	163	ASP	CA-CB-CG	7.22	119.82	112.60
1	lt	179	GLN	N-CA-C	7.22	118.80	111.07
1	3j	11	VAL	N-CA-C	-7.22	97.70	108.46
1	3s	89	GLY	N-CA-C	7.22	127.07	112.34
1	3E	21	ASN	CB-CA-C	7.22	122.22	110.88
1	4u	18	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	5b	177	ALA	CA-C-N	7.22	130.97	120.71
1	5b	177	ALA	C-N-CA	7.22	130.97	120.71
1	5Y	116	GLY	O-C-N	-7.22	113.31	122.70
1	6M	46	GLY	CA-C-N	7.22	131.06	120.95
1	6M	46	GLY	C-N-CA	7.22	131.06	120.95
1	7q	24	VAL	N-CA-C	7.22	117.99	110.62
1	86	9	GLN	N-CA-CB	7.22	121.50	109.94
1	8h	15	ILE	O-C-N	-7.22	114.97	122.63
1	8U	87	HIS	N-CA-C	7.22	121.81	110.32
1	9u	125	PRO	CA-C-N	7.22	130.35	120.46
1	9u	125	PRO	C-N-CA	7.22	130.35	120.46
1	9O	42	ALA	CA-C-N	7.22	129.96	120.28
1	9O	42	ALA	C-N-CA	7.22	129.96	120.28
1	10	223	GLY	CA-C-N	7.22	128.20	120.83
1	10	223	GLY	C-N-CA	7.22	128.20	120.83
1	13	79	GLU	CA-C-N	7.22	129.83	120.44
1	13	79	GLU	C-N-CA	7.22	129.83	120.44
1	aN	52	LEU	CA-C-N	7.22	129.96	120.28
1	aN	52	LEU	C-N-CA	7.22	129.96	120.28
1	aY	34	PRO	N-CD-CG	7.22	114.03	103.20
1	b8	167	ARG	NE-CZ-NH1	7.22	128.72	121.50
1	bN	124	ILE	CA-C-O	-7.22	114.50	119.19
1	1e	34	PRO	N-CD-CG	7.22	114.03	103.20
1	cF	167	ARG	CA-C-N	7.22	129.83	120.44
1	cF	167	ARG	C-N-CA	7.22	129.83	120.44
1	dq	192	GLN	N-CA-C	7.22	119.15	111.28
1	dH	19	THR	OG1-CB-CG2	-7.22	94.86	109.30
1	dP	68	MET	CA-C-N	7.22	129.83	120.44
1	dP	68	MET	C-N-CA	7.22	129.83	120.44
1	fk	214	MET	CA-C-N	7.22	130.26	120.44
1	fk	214	MET	C-N-CA	7.22	130.26	120.44
1	b	29	GLU	O-C-N	-7.22	113.89	122.27
1	ge	39	MET	CA-C-N	7.22	129.96	120.28
1	ge	39	MET	C-N-CA	7.22	129.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gh	19	THR	O-C-N	-7.22	114.47	122.12
1	gz	179	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	gR	33	SER	CA-C-N	7.22	128.87	119.84
1	gR	33	SER	C-N-CA	7.22	128.87	119.84
1	hX	126	VAL	N-CA-C	7.22	118.85	110.62
1	ic	39	MET	N-CA-C	7.22	118.80	111.07
1	iA	62	HIS	ND1-CG-CD2	7.22	113.32	106.10
1	iK	32	PHE	CA-CB-CG	-7.22	106.58	113.80
1	j0	139	ASN	O-C-N	-7.22	113.39	122.27
1	jq	25	LYS	N-CA-C	7.22	119.15	111.28
1	k5	79	GLU	O-C-N	-7.22	114.63	122.07
1	3G	191	VAL	N-CA-C	7.22	118.01	110.72
1	5P	226	HIS	ND1-CE1-NE2	7.22	115.62	108.40
1	5W	67	GLN	CB-CG-CD	7.22	124.88	112.60
1	6s	72	THR	CA-C-O	-7.22	112.90	120.55
1	6U	187	GLU	N-CA-C	7.22	119.15	111.28
1	7M	190	LEU	CA-C-N	7.22	129.66	120.56
1	7M	190	LEU	C-N-CA	7.22	129.66	120.56
1	87	217	ALA	CA-C-N	7.22	135.33	121.54
1	87	217	ALA	C-N-CA	7.22	135.33	121.54
1	8k	63	GLN	N-CA-C	7.22	119.23	111.36
1	9j	184	TRP	O-C-N	-7.22	114.47	122.12
1	ae	179	GLN	CA-C-N	7.22	129.83	120.44
1	ae	179	GLN	C-N-CA	7.22	129.83	120.44
1	aN	5	ASN	CB-CA-C	7.22	121.72	109.80
1	b2	50	GLN	OE1-CD-NE2	7.22	129.82	122.60
1	cP	18	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	eo	164	TYR	N-CA-C	7.22	119.78	111.11
1	g1	78	ALA	N-CA-C	7.22	118.80	111.07
1	g4	84	HIS	CA-C-N	7.22	128.87	119.84
1	g4	84	HIS	C-N-CA	7.22	128.87	119.84
1	D	22	ALA	N-CA-C	7.22	118.80	111.07
1	ga	125	PRO	CA-C-N	7.22	130.35	120.46
1	ga	125	PRO	C-N-CA	7.22	130.35	120.46
1	gb	16	SER	CA-C-N	7.22	127.22	119.28
1	gb	16	SER	C-N-CA	7.22	127.22	119.28
1	gr	181	VAL	CA-CB-CG1	7.22	122.67	110.40
1	gE	71	GLU	N-CA-C	7.22	119.15	111.28
1	gG	98	GLU	CA-C-O	-7.22	112.87	120.23
1	1F	15	ILE	N-CA-CB	7.22	118.79	110.49
1	hm	29	GLU	N-CA-C	7.22	118.80	111.07
1	i8	168	PHE	N-CA-C	7.22	119.83	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	142	VAL	N-CA-C	7.22	117.98	110.62
1	1R	55	MET	O-C-N	-7.22	114.63	122.07
1	iK	7	GLN	N-CA-C	7.22	119.49	108.52
1	jl	102	SER	CA-C-O	7.22	128.26	119.31
1	js	187	GLU	N-CA-C	7.22	122.27	113.17
1	kZ	212	GLU	N-CA-C	7.22	119.15	111.28
1	2p	21	ASN	CA-C-N	7.22	129.82	120.44
1	2p	21	ASN	C-N-CA	7.22	129.82	120.44
1	2v	63	GLN	N-CA-C	7.22	119.15	111.28
1	3Z	3	VAL	N-CA-CB	7.22	122.63	112.52
1	4u	74	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	51	194	ALA	CA-C-O	7.22	130.24	121.94
1	5q	229	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	5H	146	SER	CA-C-N	7.22	128.87	119.84
1	5H	146	SER	C-N-CA	7.22	128.87	119.84
1	65	57	ASN	CA-CB-CG	-7.22	105.38	112.60
1	6j	132	ARG	N-CA-C	7.22	119.15	111.28
1	6O	83	LEU	N-CA-C	7.22	120.06	111.33
1	74	126	VAL	CA-C-N	7.22	127.94	120.00
1	74	126	VAL	C-N-CA	7.22	127.94	120.00
1	83	110	THR	CA-CB-OG1	7.22	120.43	109.60
1	86	41	SER	CA-C-O	7.22	128.40	120.82
1	8j	70	LYS	N-CA-C	7.22	119.15	111.28
1	8n	100	ARG	NE-CZ-NH1	7.22	128.72	121.50
1	8q	177	ALA	N-CA-C	7.22	120.46	110.35
1	8v	220	GLY	CA-C-N	7.22	134.97	121.97
1	8v	220	GLY	C-N-CA	7.22	134.97	121.97
1	8x	25	LYS	N-CA-C	7.22	120.01	111.71
1	92	31	ALA	N-CA-C	7.22	119.15	111.28
1	9x	189	LEU	N-CA-C	7.22	119.23	111.36
1	ag	95	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	aB	114	GLN	N-CA-C	7.22	119.23	111.36
1	aD	44	SER	CA-C-N	7.22	129.96	120.28
1	aD	44	SER	C-N-CA	7.22	129.96	120.28
1	aE	122	PRO	CA-C-N	7.22	128.87	119.84
1	aE	122	PRO	C-N-CA	7.22	128.87	119.84
1	aW	121	ASN	CA-C-O	-7.22	113.96	119.59
1	17	139	ASN	CA-CB-CG	-7.22	105.38	112.60
1	bl	180	GLU	N-CA-C	7.22	119.15	111.28
1	bo	164	TYR	N-CA-C	7.22	119.15	111.28
1	bu	2	ILE	CA-C-N	7.22	130.35	120.46
1	bu	2	ILE	C-N-CA	7.22	130.35	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	76	GLU	CA-C-N	7.22	129.95	120.28
1	bP	76	GLU	C-N-CA	7.22	129.95	120.28
1	bX	53	ASN	CA-C-N	7.22	130.27	120.38
1	bX	53	ASN	C-N-CA	7.22	130.27	120.38
1	bY	120	HIS	CE1-NE2-CD2	-7.22	101.78	109.00
1	c9	144	MET	CG-SD-CE	-7.22	85.02	100.90
1	cl	37	ILE	CA-C-N	7.22	126.84	119.19
1	cl	37	ILE	C-N-CA	7.22	126.84	119.19
1	cq	45	GLU	N-CA-C	7.22	121.13	110.30
1	cP	37	ILE	N-CA-C	7.22	123.08	112.61
1	dE	32	PHE	CA-CB-CG	-7.22	106.58	113.80
1	eK	35	GLU	CA-C-N	7.22	130.35	120.46
1	eK	35	GLU	C-N-CA	7.22	130.35	120.46
1	f0	202	LEU	N-CA-C	7.22	119.15	111.28
1	f6	133	TRP	CA-C-N	7.22	129.66	120.56
1	f6	133	TRP	C-N-CA	7.22	129.66	120.56
1	f8	230	VAL	O-C-N	-7.22	115.38	123.10
1	f9	154	ARG	NH1-CZ-NH2	-7.22	109.91	119.30
1	fr	73	ILE	N-CA-CB	7.22	119.00	110.55
1	fJ	5	ASN	N-CA-CB	7.22	122.69	110.49
1	fR	195	ASN	O-C-N	-7.22	113.44	121.53
1	fV	60	GLY	CA-C-N	7.22	128.69	120.53
1	fV	60	GLY	C-N-CA	7.22	128.69	120.53
1	g	14	ALA	CA-C-O	-7.22	113.90	121.55
1	R	216	THR	O-C-N	7.22	129.77	122.12
1	7	14	ALA	CA-C-N	7.22	130.18	120.50
1	7	14	ALA	C-N-CA	7.22	130.18	120.50
1	gb	162	ARG	N-CA-C	7.22	119.77	111.11
1	gx	107	THR	N-CA-C	7.22	118.79	111.07
1	gD	167	ARG	NH1-CZ-NH2	-7.22	109.92	119.30
1	hd	103	ASP	CA-CB-CG	7.22	119.82	112.60
1	hg	23	TRP	N-CA-C	7.22	119.23	111.36
1	hn	72	THR	N-CA-C	7.22	118.79	111.07
1	ho	51	ASP	CA-CB-CG	-7.22	105.38	112.60
1	hy	197	ASP	CA-C-N	7.22	129.95	120.28
1	hy	197	ASP	C-N-CA	7.22	129.95	120.28
1	i7	13	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	il	121	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	iI	120	HIS	CA-CB-CG	-7.22	106.58	113.80
1	iT	143	ARG	NE-CZ-NH1	7.22	128.72	121.50
1	iU	12	HIS	O-C-N	-7.22	114.34	122.86
1	j9	208	ALA	N-CA-C	-7.22	102.04	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	193	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	jw	10	MET	CA-C-N	7.22	132.50	123.12
1	jw	10	MET	C-N-CA	7.22	132.50	123.12
1	jY	87	HIS	ND1-CE1-NE2	7.22	115.62	108.40
1	28	27	VAL	O-C-N	-7.22	114.72	121.94
1	2e	159	GLU	CA-C-N	7.22	128.86	119.84
1	2e	159	GLU	C-N-CA	7.22	128.86	119.84
1	2O	121	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	3o	82	ARG	CA-C-N	7.22	130.28	120.54
1	3o	82	ARG	C-N-CA	7.22	130.28	120.54
1	43	219	GLN	CA-C-N	7.22	126.85	119.92
1	43	219	GLN	C-N-CA	7.22	126.85	119.92
1	5q	5	ASN	CA-CB-CG	-7.22	105.38	112.60
1	5A	125	PRO	CA-C-N	7.22	130.35	120.46
1	5A	125	PRO	C-N-CA	7.22	130.35	120.46
1	6s	118	MET	CG-SD-CE	-7.22	85.02	100.90
1	6E	203	LYS	N-CA-C	7.22	119.15	111.28
1	7J	105	ALA	O-C-N	-7.22	113.68	122.34
1	9C	89	GLY	O-C-N	-7.22	114.55	121.77
1	as	211	LEU	N-CA-C	7.22	120.06	111.33
1	aW	120	HIS	CG-CD2-NE2	7.22	114.42	107.20
1	bH	109	SER	O-C-N	-7.22	114.98	123.06
1	bK	18	ARG	N-CA-C	7.22	119.15	111.28
1	1d	202	LEU	N-CA-C	7.22	119.15	111.28
1	1f	5	ASN	CA-C-N	7.22	134.42	122.73
1	1f	5	ASN	C-N-CA	7.22	134.42	122.73
1	cS	14	ALA	N-CA-C	7.22	120.70	110.23
1	ew	195	ASN	CA-CB-CG	7.22	119.82	112.60
1	eV	229	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	ff	195	ASN	N-CA-C	7.22	118.81	109.64
1	gM	72	THR	O-C-N	-7.22	114.47	122.12
1	gS	181	VAL	O-C-N	-7.22	113.65	121.80
1	hl	156	GLY	O-C-N	-7.22	114.55	121.77
1	hq	179	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	hD	110	THR	N-CA-CB	7.22	122.39	110.63
1	iv	14	ALA	N-CA-C	7.22	119.62	110.24
1	j4	90	PRO	N-CA-C	7.22	127.33	112.47
1	jR	38	PRO	CA-C-N	7.22	129.82	120.44
1	jR	38	PRO	C-N-CA	7.22	129.82	120.44
1	l2	84	HIS	CB-CA-C	-7.22	103.03	110.17
1	ll	200	THR	N-CA-C	7.22	119.23	111.36
1	28	146	SER	N-CA-C	7.22	125.76	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lu	52	LEU	CA-C-N	7.22	130.54	120.29
1	lu	52	LEU	C-N-CA	7.22	130.54	120.29
1	29	103	ASP	CA-C-N	7.22	130.67	120.42
1	29	103	ASP	C-N-CA	7.22	130.67	120.42
1	2k	154	ARG	CD-NE-CZ	7.22	134.50	124.40
1	2z	18	ARG	CA-C-N	7.22	129.82	120.44
1	2z	18	ARG	C-N-CA	7.22	129.82	120.44
1	2A	89	GLY	O-C-N	-7.22	114.55	121.77
1	3o	151	LEU	N-CA-C	7.22	120.57	111.69
1	3J	90	PRO	CA-C-O	-7.22	113.20	121.36
1	48	193	ASN	CA-CB-CG	-7.22	105.38	112.60
1	4c	4	GLN	OE1-CD-NE2	-7.22	115.38	122.60
1	4W	160	PRO	N-CA-CB	-7.22	96.78	103.27
1	4Z	117	TRP	CA-C-O	7.22	128.22	119.49
1	5J	121	ASN	CA-CB-CG	7.22	119.82	112.60
1	6m	97	ARG	N-CA-C	7.22	119.62	110.24
1	6q	132	ARG	CA-C-N	7.22	130.54	120.29
1	6q	132	ARG	C-N-CA	7.22	130.54	120.29
1	6x	15	ILE	N-CA-CB	7.22	119.19	110.31
1	7u	21	ASN	CA-C-N	7.22	130.26	120.44
1	7u	21	ASN	C-N-CA	7.22	130.26	120.44
1	7u	53	ASN	N-CA-C	7.22	120.01	111.71
1	7I	121	ASN	O-C-N	-7.22	111.52	121.12
1	7J	183	ASN	CA-C-N	7.22	129.95	120.28
1	7J	183	ASN	C-N-CA	7.22	129.95	120.28
1	7K	87	HIS	CE1-NE2-CD2	-7.22	101.78	109.00
1	8S	132	ARG	NE-CZ-NH1	7.22	128.72	121.50
1	98	143	ARG	CA-C-N	7.22	129.95	120.28
1	98	143	ARG	C-N-CA	7.22	129.95	120.28
1	9v	23	TRP	CA-C-N	7.22	129.80	120.56
1	9v	23	TRP	C-N-CA	7.22	129.80	120.56
1	9Z	162	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	a9	21	ASN	OD1-CG-ND2	-7.22	115.38	122.60
1	au	69	LEU	CA-C-N	7.22	129.82	120.44
1	au	69	LEU	C-N-CA	7.22	129.82	120.44
1	bs	183	ASN	CA-CB-CG	7.22	119.82	112.60
1	bv	100	ARG	NE-CZ-NH2	-7.22	112.70	119.20
1	bQ	166	ASP	N-CA-CB	-7.22	99.61	110.07
1	cs	3	VAL	N-CA-C	-7.22	98.10	108.42
1	ct	36	VAL	CA-CB-CG2	7.22	122.67	110.40
1	fm	210	THR	CA-CB-OG1	7.22	120.42	109.60
1	k	153	ILE	O-C-N	-7.22	114.80	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	112	GLN	CA-C-O	7.22	128.20	120.55
1	p	194	ALA	N-CA-C	7.22	119.88	110.43
1	S	123	PRO	N-CA-C	7.22	122.55	111.15
1	8	174	ALA	O-C-N	7.22	130.38	122.15
1	gs	229	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	gG	126	VAL	N-CA-C	7.21	118.84	110.62
1	gK	200	THR	N-CA-CB	7.21	120.84	110.16
1	gV	48	THR	N-CA-CB	7.21	120.12	109.88
1	hI	27	VAL	CA-C-N	7.21	130.26	120.38
1	hI	27	VAL	C-N-CA	7.21	130.26	120.38
1	hT	119	THR	N-CA-C	-7.21	104.51	113.38
1	ih	61	GLY	CA-C-N	7.21	135.32	121.54
1	ih	61	GLY	C-N-CA	7.21	135.32	121.54
1	iQ	6	LEU	O-C-N	-7.21	115.69	123.26
1	jh	128	GLU	N-CA-C	7.21	119.14	111.28
1	kf	134	ILE	CA-C-N	7.21	129.91	120.60
1	kf	134	ILE	C-N-CA	7.21	129.91	120.60
1	kK	18	ARG	O-C-N	-7.21	114.47	122.12
1	kL	20	LEU	N-CA-C	7.21	119.22	111.36
1	l4	191	VAL	N-CA-C	7.21	117.98	110.62
1	l7	203	LYS	CA-C-N	7.21	129.82	120.44
1	l7	203	LYS	C-N-CA	7.21	129.82	120.44
1	ld	66	MET	N-CA-CB	7.21	120.53	110.07
1	ll	51	ASP	CA-C-N	7.21	129.95	120.28
1	ll	51	ASP	C-N-CA	7.21	129.95	120.28
1	28	55	MET	CG-SD-CE	-7.21	85.03	100.90
1	2n	132	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	2q	31	ALA	N-CA-C	7.21	120.06	111.33
1	3n	182	LYS	N-CA-C	7.21	119.14	111.28
1	3v	59	VAL	N-CA-C	7.21	118.67	108.93
1	42	41	SER	N-CA-C	7.21	119.14	111.28
1	57	228	ALA	CB-CA-C	-7.21	99.77	110.16
1	5f	223	GLY	CA-C-N	7.21	128.86	119.84
1	5f	223	GLY	C-N-CA	7.21	128.86	119.84
1	5n	89	GLY	O-C-N	-7.21	114.56	121.77
1	5B	134	ILE	CA-C-N	7.21	130.34	120.46
1	5B	134	ILE	C-N-CA	7.21	130.34	120.46
1	67	219	GLN	N-CA-C	7.21	120.67	110.50
1	6q	215	MET	N-CA-C	7.21	119.14	111.28
1	6u	117	TRP	N-CA-C	7.21	119.22	111.36
1	6G	179	GLN	N-CA-C	7.21	120.01	111.71
1	6I	97	ARG	NE-CZ-NH1	7.21	128.71	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	201	ILE	CA-C-N	7.21	129.82	120.44
1	6Z	201	ILE	C-N-CA	7.21	129.82	120.44
1	75	139	ASN	CA-CB-CG	7.21	119.81	112.60
1	7i	154	ARG	NE-CZ-NH2	7.21	125.69	119.20
1	7K	104	ILE	CA-C-O	7.21	128.29	120.57
1	8o	198	CYS	N-CA-C	7.21	118.93	111.14
1	8C	82	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	8G	74	ASN	N-CA-C	7.21	119.14	111.28
1	9q	55	MET	CA-C-N	7.21	129.82	120.44
1	9q	55	MET	C-N-CA	7.21	129.82	120.44
1	ar	5	ASN	CA-CB-CG	-7.21	105.39	112.60
1	au	189	LEU	CA-C-N	7.21	131.28	120.31
1	au	189	LEU	C-N-CA	7.21	131.28	120.31
1	az	8	GLY	CA-C-N	7.21	136.74	122.31
1	az	8	GLY	C-N-CA	7.21	136.74	122.31
1	b5	199	LYS	CA-C-O	7.21	128.27	119.97
1	bb	114	GLN	CA-C-N	7.21	129.65	120.56
1	bb	114	GLN	C-N-CA	7.21	129.65	120.56
1	18	7	GLN	CA-C-N	7.21	135.55	121.41
1	18	7	GLN	C-N-CA	7.21	135.55	121.41
1	bO	13	GLN	N-CA-C	-7.21	97.55	108.52
1	bU	169	TYR	N-CA-C	7.21	119.14	111.28
1	c3	126	VAL	CA-C-N	7.21	127.95	119.94
1	c3	126	VAL	C-N-CA	7.21	127.95	119.94
1	cS	138	LEU	N-CA-C	7.21	119.14	111.28
1	d9	5	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	ej	77	ALA	O-C-N	-7.21	114.47	122.12
1	1q	87	HIS	CA-CB-CG	7.21	121.02	113.80
1	r	27	VAL	N-CA-CB	7.21	120.35	110.54
1	N	115	ILE	CA-C-N	7.21	128.14	119.99
1	N	115	ILE	C-N-CA	7.21	128.14	119.99
1	gR	144	MET	CA-C-O	-7.21	112.77	120.42
1	hW	26	VAL	N-CA-CB	7.21	121.40	110.58
1	ia	75	GLU	N-CA-C	7.21	119.77	111.11
1	iK	194	ALA	CA-C-N	7.21	131.15	120.83
1	iK	194	ALA	C-N-CA	7.21	131.15	120.83
1	jC	37	ILE	O-C-N	7.21	125.04	120.42
1	jD	54	THR	CA-C-N	7.21	129.82	120.44
1	jD	54	THR	C-N-CA	7.21	129.82	120.44
1	kz	193	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	4E	224	PRO	N-CA-C	-7.21	106.34	114.92
1	53	194	ALA	N-CA-C	7.21	119.88	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	47	ALA	O-C-N	-7.21	114.60	123.04
1	5m	145	TYR	CB-CG-CD2	7.21	131.62	120.80
1	5N	48	THR	CA-C-N	7.21	128.86	119.84
1	5N	48	THR	C-N-CA	7.21	128.86	119.84
1	79	98	GLU	N-CA-C	7.21	119.27	109.24
1	7W	146	SER	O-C-N	-7.21	113.03	121.32
1	9q	164	TYR	O-C-N	-7.21	113.93	122.15
1	9M	168	PHE	CA-CB-CG	-7.21	106.59	113.80
1	b1	98	GLU	CA-C-O	-7.21	113.75	119.66
1	bk	223	GLY	CA-C-N	7.21	127.19	119.76
1	bk	223	GLY	C-N-CA	7.21	127.19	119.76
1	19	153	ILE	CA-C-N	7.21	135.32	121.54
1	19	153	ILE	C-N-CA	7.21	135.32	121.54
1	c7	37	ILE	CA-C-N	7.21	126.84	119.19
1	c7	37	ILE	C-N-CA	7.21	126.84	119.19
1	cF	40	PHE	CA-C-N	7.21	130.53	120.29
1	cF	40	PHE	C-N-CA	7.21	130.53	120.29
1	dn	78	ALA	N-CA-C	7.21	119.14	111.28
1	dH	15	ILE	O-C-N	-7.21	114.98	122.63
1	1v	22	ALA	CA-C-N	7.21	129.95	120.28
1	1v	22	ALA	C-N-CA	7.21	129.95	120.28
1	fw	185	MET	CA-C-N	7.21	129.82	120.44
1	fw	185	MET	C-N-CA	7.21	129.82	120.44
1	m	226	HIS	CA-CB-CG	7.21	121.01	113.80
1	1F	37	ILE	O-C-N	7.21	125.19	120.07
1	gN	110	THR	CA-CB-OG1	7.21	120.42	109.60
1	hg	220	GLY	O-C-N	-7.21	117.09	122.71
1	hi	18	ARG	O-C-N	-7.21	114.48	122.12
1	in	98	GLU	O-C-N	-7.21	113.60	121.53
1	ji	89	GLY	O-C-N	-7.21	114.97	122.18
1	jG	82	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	jR	194	ALA	N-CA-C	7.21	119.88	110.43
1	kG	32	PHE	CB-CG-CD1	-7.21	108.44	120.70
1	kQ	126	VAL	CB-CA-C	-7.21	100.98	112.16
1	2Q	202	LEU	N-CA-C	7.21	119.14	111.28
1	2V	12	HIS	CB-CG-CD2	-7.21	121.83	131.20
1	3L	187	GLU	CA-C-O	7.21	128.25	120.24
1	3M	12	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
1	59	56	LEU	N-CA-C	7.21	119.14	111.28
1	5B	37	ILE	N-CA-C	7.21	121.00	112.35
1	5X	80	TRP	CA-CB-CG	7.21	127.30	113.60
1	6Z	84	HIS	CA-CB-CG	-7.21	106.59	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7a	136	LEU	O-C-N	-7.21	114.47	122.12
1	84	217	ALA	N-CA-C	7.21	119.62	110.24
1	8k	100	ARG	NH1-CZ-NH2	-7.21	109.93	119.30
1	8z	90	PRO	CA-C-N	7.21	133.01	123.06
1	8z	90	PRO	C-N-CA	7.21	133.01	123.06
1	8S	184	TRP	O-C-N	-7.21	114.48	122.12
1	96	29	GLU	N-CA-C	7.21	122.37	113.50
1	9b	21	ASN	N-CA-C	7.21	120.06	111.33
1	9q	62	HIS	ND1-CE1-NE2	7.21	115.61	108.40
1	9F	226	HIS	ND1-CE1-NE2	7.21	115.61	108.40
1	a3	126	VAL	N-CA-C	7.21	117.34	110.42
1	aq	223	GLY	CA-C-N	7.21	127.21	119.28
1	aq	223	GLY	C-N-CA	7.21	127.21	119.28
1	be	203	LYS	CA-C-O	7.21	128.13	120.70
1	18	53	ASN	CA-C-N	7.21	130.28	120.54
1	18	53	ASN	C-N-CA	7.21	130.28	120.54
1	18	123	PRO	CB-CA-C	-7.21	102.00	111.23
1	1c	124	ILE	N-CA-CB	7.21	119.82	111.31
1	cl	191	VAL	CA-CB-CG2	-7.21	98.14	110.40
1	cT	39	MET	CA-C-N	7.21	129.82	120.44
1	cT	39	MET	C-N-CA	7.21	129.82	120.44
1	el	53	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	eN	136	LEU	N-CA-C	7.21	118.79	111.07
1	ff	67	GLN	CA-C-N	7.21	129.94	120.28
1	ff	67	GLN	C-N-CA	7.21	129.94	120.28
1	fm	223	GLY	CA-C-N	7.21	126.71	118.85
1	fm	223	GLY	C-N-CA	7.21	126.71	118.85
1	e	135	ILE	N-CA-C	7.21	117.93	110.36
1	x	150	ILE	N-CA-C	7.21	120.06	111.05
1	O	65	ALA	O-C-N	-7.21	114.64	122.07
1	O	167	ARG	CA-C-O	7.21	128.06	120.42
1	hc	6	LEU	CA-C-N	7.21	132.60	122.36
1	hc	6	LEU	C-N-CA	7.21	132.60	122.36
1	jr	229	ARG	NE-CZ-NH2	7.21	125.69	119.20
1	jH	112	GLN	CA-C-O	-7.21	113.25	120.82
1	jQ	96	MET	CA-C-N	7.21	131.07	120.90
1	jQ	96	MET	C-N-CA	7.21	131.07	120.90
1	k3	188	THR	CA-C-O	7.21	124.80	119.68
1	kc	82	ARG	CA-C-N	7.21	129.94	120.28
1	kc	82	ARG	C-N-CA	7.21	129.94	120.28
1	kp	76	GLU	CA-C-O	7.21	128.19	120.55
1	kE	195	ASN	CB-CA-C	-7.21	98.13	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kN	226	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
1	25	224	PRO	N-CA-C	7.21	123.01	111.26
1	2X	37	ILE	N-CA-C	7.21	121.68	112.67
1	2Y	218	CYS	CA-C-O	7.21	128.83	120.32
1	3i	211	LEU	N-CA-C	7.21	120.00	111.71
1	4U	133	TRP	CB-CG-CD2	-7.21	116.71	126.80
1	5b	154	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	5e	195	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	5r	184	TRP	N-CA-C	7.21	119.76	111.11
1	5B	174	ALA	CA-C-N	7.21	130.95	120.71
1	5B	174	ALA	C-N-CA	7.21	130.95	120.71
1	5Q	166	ASP	CA-CB-CG	7.21	119.81	112.60
1	8g	165	VAL	O-C-N	-7.21	114.40	121.83
1	9H	59	VAL	N-CA-C	7.21	118.66	108.93
1	az	82	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	bU	229	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	1w	10	MET	O-C-N	-7.21	113.67	122.25
1	fu	229	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	ge	143	ARG	NH1-CZ-NH2	-7.21	109.93	119.30
1	gC	217	ALA	O-C-N	-7.21	114.10	122.89
1	hs	217	ALA	O-C-N	-7.21	114.99	123.06
1	j9	52	LEU	N-CA-C	7.21	118.78	111.07
1	jh	5	ASN	CA-CB-CG	-7.21	105.39	112.60
1	js	145	TYR	CB-CG-CD2	-7.21	109.99	120.80
1	jZ	139	ASN	CA-CB-CG	7.21	119.81	112.60
1	kC	114	GLN	CA-C-N	7.21	130.33	120.46
1	kC	114	GLN	C-N-CA	7.21	130.33	120.46
1	kX	167	ARG	CA-C-O	-7.21	112.78	120.42
1	l6	183	ASN	CA-C-N	7.21	129.81	120.44
1	l6	183	ASN	C-N-CA	7.21	129.81	120.44
1	2D	168	PHE	CA-CB-CG	7.21	121.01	113.80
1	4O	124	ILE	CA-C-O	-7.21	113.78	119.98
1	5Q	121	ASN	CB-CA-C	-7.21	99.69	109.42
1	6G	228	ALA	N-CA-C	7.21	119.76	111.11
1	7j	195	ASN	CA-C-O	-7.21	113.32	119.59
1	7M	101	GLY	CA-C-N	7.21	130.26	120.38
1	7M	101	GLY	C-N-CA	7.21	130.26	120.38
1	8v	128	GLU	N-CA-C	7.21	119.76	111.11
1	8R	144	MET	CA-C-O	7.21	128.25	119.38
1	9y	121	ASN	O-C-N	-7.21	112.90	121.12
1	ai	179	GLN	N-CA-C	7.21	119.76	111.11
1	ak	159	GLU	O-C-N	-7.21	113.78	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	av	146	SER	CA-C-O	-7.21	112.35	119.49
1	aA	6	LEU	N-CA-C	7.21	119.14	111.28
1	14	58	THR	N-CA-CB	7.21	120.83	110.88
1	b4	180	GLU	N-CA-C	7.21	119.14	111.28
1	bs	167	ARG	N-CA-C	7.21	119.76	111.11
1	c0	77	ALA	CA-C-N	7.21	129.94	120.28
1	c0	77	ALA	C-N-CA	7.21	129.94	120.28
1	cj	39	MET	N-CA-C	7.21	119.14	111.28
1	cp	84	HIS	N-CA-C	7.21	118.98	109.83
1	cu	179	GLN	CA-C-N	7.21	130.53	120.29
1	cu	179	GLN	C-N-CA	7.21	130.53	120.29
1	cC	111	LEU	N-CA-C	7.21	120.05	111.33
1	dj	200	THR	CA-C-N	7.21	130.34	120.46
1	dj	200	THR	C-N-CA	7.21	130.34	120.46
1	dt	154	ARG	NH1-CZ-NH2	-7.21	109.93	119.30
1	dL	53	ASN	CA-CB-CG	-7.21	105.39	112.60
1	eu	125	PRO	CA-C-N	7.21	131.86	120.47
1	eu	125	PRO	C-N-CA	7.21	131.86	120.47
1	fb	21	ASN	O-C-N	-7.21	114.48	122.12
1	g2	16	SER	O-C-N	-7.21	115.39	121.23
1	x	132	ARG	CA-C-N	7.21	130.24	120.44
1	x	132	ARG	C-N-CA	7.21	130.24	120.44
1	gf	120	HIS	CE1-NE2-CD2	-7.21	101.79	109.00
1	gE	56	LEU	N-CA-C	7.21	118.78	111.07
1	gO	17	PRO	CA-C-N	7.21	129.81	120.44
1	gO	17	PRO	C-N-CA	7.21	129.81	120.44
1	hZ	162	ARG	NH1-CZ-NH2	-7.21	109.93	119.30
1	1P	221	VAL	N-CA-C	7.21	118.00	110.72
1	iT	10	MET	N-CA-C	7.21	120.95	110.28
1	jv	121	ASN	CA-C-O	-7.21	111.25	119.32
1	k2	98	GLU	CB-CG-CD	7.21	124.85	112.60
1	kh	133	TRP	CB-CG-CD2	-7.21	116.71	126.80
1	kw	181	VAL	N-CA-CB	7.21	118.98	110.55
1	25	103	ASP	CA-C-O	7.21	128.39	120.82
1	l7	176	GLN	N-CA-C	7.21	120.40	110.24
1	lf	61	GLY	N-CA-C	7.21	121.77	112.54
1	47	200	THR	CA-C-N	7.21	129.64	120.56
1	47	200	THR	C-N-CA	7.21	129.64	120.56
1	4J	212	GLU	CB-CG-CD	-7.21	100.35	112.60
1	4Z	87	HIS	O-C-N	-7.21	114.61	123.04
1	4Z	186	THR	N-CA-C	7.21	119.14	111.28
1	5q	202	LEU	N-CA-CB	7.21	121.45	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6f	143	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	6o	63	GLN	N-CA-C	7.21	119.21	111.36
1	6I	190	LEU	CA-C-N	7.21	132.12	120.30
1	6I	190	LEU	C-N-CA	7.21	132.12	120.30
1	6Q	162	ARG	O-C-N	-7.21	114.31	122.09
1	6W	173	ARG	NH1-CZ-NH2	-7.21	109.93	119.30
1	72	146	SER	O-C-N	-7.21	114.07	120.48
1	73	161	PHE	CA-CB-CG	-7.21	106.59	113.80
1	7m	130	TYR	N-CA-C	7.21	119.14	111.28
1	8v	96	MET	O-C-N	-7.21	114.87	122.94
1	91	66	MET	N-CA-C	7.21	120.05	111.33
1	95	140	LYS	N-CA-C	7.21	120.00	111.71
1	9t	161	PHE	CA-C-N	7.21	129.81	120.44
1	9t	161	PHE	C-N-CA	7.21	129.81	120.44
1	9P	137	GLY	CA-C-N	7.21	130.66	120.28
1	9P	137	GLY	C-N-CA	7.21	130.66	120.28
1	9Q	15	ILE	CA-C-O	7.21	129.29	121.36
1	al	220	GLY	CA-C-N	7.21	134.94	121.97
1	al	220	GLY	C-N-CA	7.21	134.94	121.97
1	aH	47	ALA	O-C-N	-7.21	114.06	122.93
1	bk	125	PRO	CA-C-N	7.21	130.69	120.53
1	bk	125	PRO	C-N-CA	7.21	130.69	120.53
1	bB	181	VAL	CA-C-N	7.21	130.25	120.38
1	bB	181	VAL	C-N-CA	7.21	130.25	120.38
1	c1	179	GLN	N-CA-C	7.21	119.14	111.28
1	c3	132	ARG	NE-CZ-NH2	-7.21	112.71	119.20
1	c5	67	GLN	CA-C-N	7.21	129.94	120.28
1	c5	67	GLN	C-N-CA	7.21	129.94	120.28
1	c8	183	ASN	CA-CB-CG	7.21	119.81	112.60
1	c9	27	VAL	O-C-N	-7.21	114.41	121.90
1	cl	200	THR	O-C-N	-7.21	114.48	122.12
1	1e	155	GLN	CA-C-O	-7.21	112.92	120.70
1	cV	229	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	cX	217	ALA	N-CA-C	7.21	120.44	110.35
1	dd	55	MET	N-CA-C	7.21	119.13	111.28
1	dj	69	LEU	N-CA-CB	-7.21	99.53	110.12
1	dR	143	ARG	N-CA-C	7.21	119.14	111.28
1	f0	143	ARG	O-C-N	-7.21	114.48	122.12
1	p	112	GLN	CA-C-N	7.21	129.94	120.28
1	p	112	GLN	C-N-CA	7.21	129.94	120.28
1	w	135	ILE	N-CA-C	7.21	117.97	110.62
1	z	185	MET	N-CA-C	7.21	120.05	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	222	GLY	N-CA-C	7.21	123.60	114.66
1	R	152	ASP	N-CA-C	-7.21	102.80	113.61
1	W	183	ASN	OD1-CG-ND2	-7.21	115.39	122.60
1	gx	172	LEU	CA-C-N	7.21	129.94	120.28
1	gx	172	LEU	C-N-CA	7.21	129.94	120.28
1	hc	214	MET	N-CA-C	7.21	120.05	111.33
1	hl	25	LYS	CA-C-O	7.21	128.19	120.55
1	hK	186	THR	CA-C-N	7.21	129.93	120.28
1	hK	186	THR	C-N-CA	7.21	129.93	120.28
1	hO	37	ILE	CA-C-N	7.21	128.85	119.84
1	hO	37	ILE	C-N-CA	7.21	128.85	119.84
1	iO	135	ILE	CA-CB-CG1	7.21	122.65	110.40
1	iY	20	LEU	O-C-N	-7.21	114.48	122.12
1	jg	226	HIS	CA-CB-CG	7.21	121.00	113.80
1	jN	195	ASN	N-CA-C	7.21	118.43	109.57
1	22	143	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	kJ	48	THR	N-CA-CB	7.21	119.62	110.04
1	l8	103	ASP	CA-CB-CG	-7.21	105.39	112.60
1	28	66	MET	CB-CA-C	7.21	122.75	110.79
1	lA	132	ARG	NE-CZ-NH1	7.21	128.71	121.50
1	5c	61	GLY	N-CA-C	7.21	120.25	112.33
1	5y	92	GLU	O-C-N	-7.21	113.60	121.53
1	5y	117	TRP	CA-C-N	7.21	130.24	120.44
1	5y	117	TRP	C-N-CA	7.21	130.24	120.44
1	6g	139	ASN	CA-CB-CG	7.21	119.81	112.60
1	6K	223	GLY	CA-C-O	-7.21	111.22	121.52
1	9K	80	TRP	N-CA-C	7.21	119.13	111.28
1	9N	174	ALA	N-CA-CB	-7.21	100.06	110.80
1	aB	104	ILE	N-CA-C	7.21	117.72	110.23
1	ck	195	ASN	O-C-N	-7.21	113.45	121.66
1	dg	107	THR	CA-CB-OG1	7.21	120.41	109.60
1	di	120	HIS	ND1-CE1-NE2	7.21	115.61	108.40
1	dE	111	LEU	CA-C-N	7.21	129.94	120.28
1	dE	111	LEU	C-N-CA	7.21	129.94	120.28
1	dK	108	THR	CA-C-O	7.21	128.45	119.95
1	dV	68	MET	CG-SD-CE	-7.21	85.05	100.90
1	gz	3	VAL	N-CA-CB	7.20	119.75	111.39
1	hn	100	ARG	CA-C-O	-7.20	113.66	121.94
1	hp	154	ARG	O-C-N	-7.20	114.98	123.41
1	i2	51	ASP	CB-CA-C	-7.20	99.28	110.81
1	ia	1	PRO	CA-C-N	7.20	131.60	121.66
1	ia	1	PRO	C-N-CA	7.20	131.60	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jw	136	LEU	CA-C-N	7.20	127.92	120.00
1	jw	136	LEU	C-N-CA	7.20	127.92	120.00
1	jP	216	THR	CA-C-O	7.20	128.15	119.43
1	k4	94	GLY	CA-C-O	7.20	127.01	119.01
1	kx	207	PRO	CB-CA-C	-7.20	100.16	111.04
1	ll	114	GLN	N-CA-C	7.20	119.13	111.28
1	2i	25	LYS	N-CA-C	7.20	119.13	111.28
1	2n	79	GLU	O-C-N	-7.20	114.48	122.12
1	3n	42	ALA	N-CA-C	7.20	118.78	111.07
1	3n	145	TYR	O-C-N	-7.20	113.10	122.39
1	3F	121	ASN	OD1-CG-ND2	-7.20	115.40	122.60
1	41	168	PHE	O-C-N	-7.20	114.48	122.12
1	47	218	CYS	N-CA-CB	7.20	122.66	110.49
1	4t	29	GLU	N-CA-C	7.20	123.60	114.31
1	4Z	138	LEU	N-CA-CB	7.20	120.71	110.12
1	51	19	THR	N-CA-CB	7.20	120.86	110.06
1	5l	208	ALA	N-CA-C	7.20	121.82	112.89
1	5I	100	ARG	NE-CZ-NH2	7.20	125.68	119.20
1	70	181	VAL	N-CA-C	7.20	117.34	110.42
1	76	25	LYS	O-C-N	-7.20	114.48	122.12
1	7d	29	GLU	N-CA-C	7.20	120.97	111.75
1	7p	193	ASN	OD1-CG-ND2	-7.20	115.40	122.60
1	7x	226	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
1	7G	155	GLN	OE1-CD-NE2	-7.20	115.40	122.60
1	85	173	ARG	N-CA-C	7.20	119.13	111.28
1	8F	12	HIS	O-C-N	-7.20	114.10	122.89
1	8H	143	ARG	N-CA-C	7.20	119.13	111.28
1	93	141	ILE	N-CA-CB	7.20	118.98	110.55
1	ae	206	GLY	CA-C-N	7.20	126.73	119.24
1	ae	206	GLY	C-N-CA	7.20	126.73	119.24
1	aP	120	HIS	ND1-CE1-NE2	7.20	115.60	108.40
1	aX	159	GLU	N-CA-C	7.20	118.73	109.65
1	bf	91	ILE	CA-C-N	7.20	129.91	120.26
1	bf	91	ILE	C-N-CA	7.20	129.91	120.26
1	by	161	PHE	CA-CB-CG	-7.20	106.60	113.80
1	cz	141	ILE	CA-C-N	7.20	129.64	120.56
1	cz	141	ILE	C-N-CA	7.20	129.64	120.56
1	d6	86	VAL	O-C-N	-7.20	115.27	122.76
1	d6	162	ARG	N-CA-C	7.20	119.13	111.28
1	do	150	ILE	O-C-N	-7.20	114.88	121.87
1	eJ	45	GLU	O-C-N	-7.20	113.01	122.59
1	eS	120	HIS	CG-CD2-NE2	7.20	114.40	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	159	GLU	CA-C-N	7.20	128.84	119.84
1	eW	159	GLU	C-N-CA	7.20	128.84	119.84
1	fd	225	GLY	CA-C-N	7.20	130.65	120.28
1	fd	225	GLY	C-N-CA	7.20	130.65	120.28
1	fS	72	THR	CA-CB-OG1	7.20	120.41	109.60
1	g2	201	ILE	CA-C-N	7.20	129.93	120.28
1	g2	201	ILE	C-N-CA	7.20	129.93	120.28
1	j	55	MET	CA-C-N	7.20	129.93	120.28
1	j	55	MET	C-N-CA	7.20	129.93	120.28
1	ga	210	THR	CA-C-N	7.20	129.93	120.28
1	ga	210	THR	C-N-CA	7.20	129.93	120.28
1	hl	6	LEU	CA-C-N	7.20	129.93	120.28
1	hl	6	LEU	C-N-CA	7.20	129.93	120.28
1	iw	134	ILE	N-CA-C	7.20	117.97	110.62
1	iY	139	ASN	CA-C-N	7.20	129.93	120.28
1	iY	139	ASN	C-N-CA	7.20	129.93	120.28
1	k4	120	HIS	CA-CB-CG	7.20	121.00	113.80
1	kJ	142	VAL	O-C-N	-7.20	114.63	121.90
1	2J	17	PRO	O-C-N	-7.20	112.93	122.22
1	2K	23	TRP	CA-CB-CG	7.20	127.28	113.60
1	3b	169	TYR	N-CA-C	7.20	119.13	111.28
1	4j	34	PRO	CA-C-N	7.20	130.90	120.38
1	4j	34	PRO	C-N-CA	7.20	130.90	120.38
1	5Q	132	ARG	CA-C-O	-7.20	112.92	120.55
1	6Y	83	LEU	N-CA-C	7.20	121.33	112.54
1	6Y	87	HIS	CG-CD2-NE2	7.20	114.40	107.20
1	78	36	VAL	CA-CB-CG1	7.20	122.64	110.40
1	9m	230	VAL	CA-C-O	7.20	126.52	119.97
1	9T	162	ARG	NH1-CZ-NH2	-7.20	109.94	119.30
1	aF	177	ALA	N-CA-C	7.20	119.12	110.19
1	b3	72	THR	CA-C-N	7.20	129.63	120.56
1	b3	72	THR	C-N-CA	7.20	129.63	120.56
1	17	214	MET	CA-C-O	7.20	128.05	120.42
1	cf	162	ARG	CA-C-O	7.20	128.05	120.42
1	db	156	GLY	CA-C-N	7.20	127.82	120.04
1	db	156	GLY	C-N-CA	7.20	127.82	120.04
1	ee	62	HIS	CA-CB-CG	7.20	121.00	113.80
1	gh	124	ILE	N-CA-CB	7.20	120.15	111.08
1	gA	136	LEU	O-C-N	-7.20	113.03	122.39
1	gR	146	SER	CA-C-N	7.20	127.63	119.93
1	gR	146	SER	C-N-CA	7.20	127.63	119.93
1	hu	28	GLU	CA-C-N	7.20	130.23	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hu	28	GLU	C-N-CA	7.20	130.23	120.44
1	1L	124	ILE	CA-C-N	7.20	128.84	119.84
1	1L	124	ILE	C-N-CA	7.20	128.84	119.84
1	1N	128	GLU	CB-CG-CD	7.20	124.84	112.60
1	1O	159	GLU	N-CA-C	7.20	118.97	109.83
1	io	162	ARG	NH1-CZ-NH2	-7.20	109.94	119.30
1	1V	33	SER	CA-C-O	-7.20	113.72	120.34
1	ju	153	ILE	N-CA-CB	7.20	121.73	110.14
1	jA	189	LEU	N-CA-CB	-7.20	99.53	110.12
1	jB	226	HIS	CA-CB-CG	-7.20	106.60	113.80
1	kE	74	ASN	CA-C-N	7.20	129.93	120.28
1	kE	74	ASN	C-N-CA	7.20	129.93	120.28
1	lw	63	GLN	N-CA-C	7.20	119.13	111.28
1	2p	173	ARG	NH1-CZ-NH2	-7.20	109.94	119.30
1	36	78	ALA	O-C-N	-7.20	114.54	122.03
1	3g	32	PHE	N-CA-C	-7.20	103.05	112.41
1	3s	9	GLN	N-CA-C	7.20	121.33	111.54
1	5j	144	MET	N-CA-C	7.20	119.13	111.28
1	5w	87	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
1	68	126	VAL	CB-CA-C	-7.20	102.61	112.04
1	6F	83	LEU	N-CA-C	7.20	118.78	111.07
1	6K	180	GLU	CA-C-N	7.20	129.63	120.56
1	6K	180	GLU	C-N-CA	7.20	129.63	120.56
1	7C	40	PHE	CA-C-N	7.20	129.93	120.28
1	7C	40	PHE	C-N-CA	7.20	129.93	120.28
1	7H	106	GLY	CA-C-N	7.20	130.26	120.54
1	7H	106	GLY	C-N-CA	7.20	130.26	120.54
1	7X	180	GLU	CA-C-N	7.20	129.63	120.56
1	7X	180	GLU	C-N-CA	7.20	129.63	120.56
1	82	67	GLN	OE1-CD-NE2	-7.20	115.40	122.60
1	8A	78	ALA	CA-C-O	7.20	128.38	120.82
1	8G	182	LYS	N-CA-C	-7.20	103.36	111.14
1	9i	54	THR	CA-C-N	7.20	129.80	120.44
1	9i	54	THR	C-N-CA	7.20	129.80	120.44
1	a3	38	PRO	N-CA-CB	7.20	110.81	103.25
1	aw	163	ASP	O-C-N	-7.20	114.54	122.03
1	be	131	LYS	CA-C-N	7.20	129.93	120.28
1	be	131	LYS	C-N-CA	7.20	129.93	120.28
1	17	196	PRO	CA-C-N	7.20	130.15	120.65
1	17	196	PRO	C-N-CA	7.20	130.15	120.65
1	bq	22	ALA	CA-C-N	7.20	130.15	120.65
1	bq	22	ALA	C-N-CA	7.20	130.15	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cw	24	VAL	CA-C-N	7.20	129.93	120.28
1	cw	24	VAL	C-N-CA	7.20	129.93	120.28
1	cT	185	MET	CA-C-N	7.20	129.80	120.44
1	cT	185	MET	C-N-CA	7.20	129.80	120.44
1	cW	189	LEU	CA-C-N	7.20	130.26	120.54
1	cW	189	LEU	C-N-CA	7.20	130.26	120.54
1	de	36	VAL	CA-C-N	7.20	124.78	120.24
1	de	36	VAL	C-N-CA	7.20	124.78	120.24
1	ed	181	VAL	CA-C-N	7.20	129.80	120.44
1	ed	181	VAL	C-N-CA	7.20	129.80	120.44
1	eq	55	MET	N-CA-C	7.20	119.21	111.36
1	fg	179	GLN	CA-C-N	7.20	129.93	120.28
1	fg	179	GLN	C-N-CA	7.20	129.93	120.28
1	fj	203	LYS	N-CA-C	7.20	118.92	111.14
1	fC	227	LYS	CA-C-N	7.20	129.93	120.28
1	fC	227	LYS	C-N-CA	7.20	129.93	120.28
1	fY	162	ARG	NE-CZ-NH2	-7.20	112.72	119.20
1	j	32	PHE	CA-C-N	7.20	131.62	120.60
1	j	32	PHE	C-N-CA	7.20	131.62	120.60
1	x	174	ALA	CA-C-N	7.20	129.93	120.28
1	x	174	ALA	C-N-CA	7.20	129.93	120.28
1	y	218	CYS	N-CA-C	7.20	119.21	111.36
1	gL	183	ASN	CA-CB-CG	-7.20	105.40	112.60
1	h2	212	GLU	CA-C-N	7.20	129.80	120.44
1	h2	212	GLU	C-N-CA	7.20	129.80	120.44
1	h8	107	THR	N-CA-CB	7.20	120.86	110.06
1	hj	78	ALA	CA-C-O	7.20	128.05	120.42
1	hM	116	GLY	CA-C-N	7.20	129.80	120.44
1	hM	116	GLY	C-N-CA	7.20	129.80	120.44
1	hV	98	GLU	N-CA-C	7.20	119.85	109.84
1	i2	65	ALA	N-CA-C	7.20	119.99	111.71
1	ie	67	GLN	N-CA-C	7.20	119.21	111.36
1	ig	85	PRO	CA-C-O	-7.20	112.89	121.67
1	j3	18	ARG	NH1-CZ-NH2	-7.20	109.94	119.30
1	jE	165	VAL	O-C-N	-7.20	114.89	121.87
1	kb	180	GLU	N-CA-C	7.20	120.04	111.33
1	ku	22	ALA	N-CA-C	7.20	120.17	111.82
1	l7	136	LEU	CA-C-N	7.20	127.79	119.94
1	l7	136	LEU	C-N-CA	7.20	127.79	119.94
1	lz	66	MET	N-CA-C	7.20	120.17	111.82
1	lL	24	VAL	N-CA-C	7.20	118.83	110.62
1	2Z	172	LEU	N-CA-C	7.20	119.13	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3i	13	GLN	N-CA-C	-7.20	98.00	109.59
1	3w	124	ILE	O-C-N	-7.20	116.83	121.37
1	3z	174	ALA	CA-C-O	7.20	127.97	119.48
1	44	21	ASN	CA-C-O	-7.20	112.92	120.55
1	4s	136	LEU	CA-C-N	7.20	127.97	119.98
1	4s	136	LEU	C-N-CA	7.20	127.97	119.98
1	53	26	VAL	N-CA-C	7.20	117.92	110.36
1	5e	200	THR	CA-C-N	7.20	130.32	120.46
1	5e	200	THR	C-N-CA	7.20	130.32	120.46
1	5C	183	ASN	CA-CB-CG	-7.20	105.40	112.60
1	5L	195	ASN	CA-C-N	7.20	126.73	119.24
1	5L	195	ASN	C-N-CA	7.20	126.73	119.24
1	6E	156	GLY	O-C-N	-7.20	115.94	122.42
1	6N	203	LYS	N-CA-C	7.20	118.77	111.07
1	70	197	ASP	CA-CB-CG	7.20	119.80	112.60
1	7U	57	ASN	CA-C-O	7.20	127.75	119.18
1	8W	120	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
1	9C	129	ILE	O-C-N	-7.20	114.86	121.91
1	9R	172	LEU	CA-C-N	7.20	130.24	120.38
1	9R	172	LEU	C-N-CA	7.20	130.24	120.38
1	9W	14	ALA	CA-C-N	7.20	131.20	120.69
1	9W	14	ALA	C-N-CA	7.20	131.20	120.69
1	ax	32	PHE	CA-CB-CG	-7.20	106.60	113.80
1	aK	178	SER	N-CA-CB	7.20	120.62	110.04
1	aO	205	LEU	N-CA-CB	7.20	120.70	110.12
1	aP	27	VAL	O-C-N	-7.20	114.42	121.83
1	aU	190	LEU	CB-CA-C	-7.20	98.61	110.85
1	br	135	ILE	CA-C-N	7.20	130.26	120.54
1	br	135	ILE	C-N-CA	7.20	130.26	120.54
1	18	202	LEU	O-C-N	-7.20	114.66	122.07
1	bw	189	LEU	N-CA-C	7.20	119.75	111.11
1	bA	87	HIS	CG-CD2-NE2	7.20	114.40	107.20
1	cd	220	GLY	CA-C-O	7.20	127.07	118.86
1	cE	10	MET	N-CA-C	7.20	122.83	114.62
1	dd	64	ALA	N-CA-C	7.20	119.20	111.36
1	dd	141	ILE	N-CA-C	7.20	117.33	110.42
1	dv	5	ASN	CA-CB-CG	7.20	119.80	112.60
1	eK	39	MET	O-C-N	-7.20	114.49	122.12
1	eP	53	ASN	N-CA-C	7.20	120.04	111.33
1	fl	150	ILE	N-CA-C	-7.20	103.64	113.00
1	fL	112	GLN	CA-C-O	7.20	128.18	120.55
1	g0	140	LYS	CA-C-N	7.20	130.64	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g0	140	LYS	C-N-CA	7.20	130.64	120.42
1	gc	229	ARG	CA-C-O	-7.20	112.79	121.28
1	iu	195	ASN	CA-CB-CG	7.20	119.80	112.60
1	jx	64	ALA	CA-C-N	7.20	130.51	120.29
1	jx	64	ALA	C-N-CA	7.20	130.51	120.29
1	jC	149	SER	CA-C-O	7.20	128.75	120.98
1	kg	104	ILE	O-C-N	-7.20	114.89	121.87
1	2V	14	ALA	N-CA-C	7.20	120.43	110.35
1	3A	17	PRO	N-CA-C	7.20	127.30	112.47
1	5G	32	PHE	CA-CB-CG	-7.20	106.60	113.80
1	5O	197	ASP	CA-CB-CG	7.20	119.80	112.60
1	9M	37	ILE	N-CA-CB	7.20	116.06	110.45
1	aq	146	SER	N-CA-C	7.20	123.50	113.57
1	bc	124	ILE	CA-C-O	7.20	127.73	119.89
1	da	131	LYS	O-C-N	-7.20	114.49	122.12
1	dB	138	LEU	O-C-N	-7.20	114.49	122.12
1	8	229	ARG	NE-CZ-NH1	7.20	128.70	121.50
1	ga	124	ILE	N-CA-C	-7.20	99.90	107.60
1	gi	8	GLY	O-C-N	-7.20	115.23	122.86
1	gR	202	LEU	CA-C-N	7.20	129.92	120.28
1	gR	202	LEU	C-N-CA	7.20	129.92	120.28
1	h3	229	ARG	NE-CZ-NH1	7.20	128.70	121.50
1	hp	15	ILE	CA-CB-CG1	7.20	122.63	110.40
1	hH	187	GLU	N-CA-C	7.20	118.77	111.07
1	i4	193	ASN	OD1-CG-ND2	-7.20	115.41	122.60
1	jJ	135	ILE	O-C-N	-7.20	114.89	121.87
1	kh	142	VAL	CA-C-N	7.20	129.92	120.28
1	kh	142	VAL	C-N-CA	7.20	129.92	120.28
1	ks	3	VAL	CB-CA-C	-7.20	99.74	110.82
1	2W	193	ASN	OD1-CG-ND2	-7.20	115.40	122.60
1	2Z	84	HIS	CA-CB-CG	-7.20	106.61	113.80
1	3C	63	GLN	CA-C-N	7.20	129.92	120.28
1	3C	63	GLN	C-N-CA	7.20	129.92	120.28
1	3N	74	ASN	OD1-CG-ND2	7.20	129.80	122.60
1	4E	166	ASP	CA-CB-CG	7.20	119.80	112.60
1	4E	167	ARG	CA-C-O	7.20	128.11	120.70
1	5t	67	GLN	CA-C-N	7.20	129.79	120.44
1	5t	67	GLN	C-N-CA	7.20	129.79	120.44
1	5S	12	HIS	CE1-NE2-CD2	-7.20	101.81	109.00
1	5W	124	ILE	N-CA-CB	-7.20	101.83	111.40
1	61	169	TYR	N-CA-CB	7.20	120.81	110.16
1	6e	115	ILE	CA-C-N	7.20	127.93	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6e	115	ILE	C-N-CA	7.20	127.93	119.94
1	72	7	GLN	N-CA-C	7.20	121.09	111.30
1	73	100	ARG	NE-CZ-NH1	7.20	128.69	121.50
1	74	154	ARG	NE-CZ-NH2	7.20	125.67	119.20
1	87	180	GLU	N-CA-C	7.20	119.12	111.28
1	8l	137	GLY	CA-C-N	7.20	129.79	120.44
1	8l	137	GLY	C-N-CA	7.20	129.79	120.44
1	8F	83	LEU	N-CA-C	7.20	118.91	111.14
1	91	74	ASN	OD1-CG-ND2	-7.20	115.41	122.60
1	98	51	ASP	CA-C-N	7.20	129.92	120.28
1	98	51	ASP	C-N-CA	7.20	129.92	120.28
1	9t	18	ARG	NE-CZ-NH2	-7.20	112.72	119.20
1	aH	132	ARG	NE-CZ-NH1	7.20	128.69	121.50
1	aW	41	SER	CA-C-N	7.20	129.79	120.44
1	aW	41	SER	C-N-CA	7.20	129.79	120.44
1	bG	24	VAL	CA-CB-CG1	-7.20	98.17	110.40
1	bX	136	LEU	N-CA-C	7.20	119.12	111.28
1	ct	127	GLY	CA-C-N	7.20	129.79	120.44
1	ct	127	GLY	C-N-CA	7.20	129.79	120.44
1	cS	124	ILE	CA-C-O	-7.20	113.78	119.25
1	dj	93	PRO	N-CA-C	7.20	122.99	111.26
1	dA	92	GLU	CA-C-O	-7.20	112.48	120.25
1	dF	12	HIS	CA-C-O	-7.20	112.59	120.43
1	fa	75	GLU	N-CA-C	7.20	118.77	111.07
1	1B	161	PHE	O-C-N	-7.20	114.49	122.12
1	l	200	THR	CB-CA-C	-7.20	98.84	110.79
1	v	24	VAL	CA-C-N	7.20	129.92	120.28
1	v	24	VAL	C-N-CA	7.20	129.92	120.28
1	gp	33	SER	CA-C-O	-7.19	113.76	119.66
1	hk	100	ARG	CA-C-N	7.19	128.09	120.03
1	hk	100	ARG	C-N-CA	7.19	128.09	120.03
1	ir	74	ASN	CA-C-O	7.19	128.60	120.90
1	iK	72	THR	CA-C-N	7.19	129.88	120.60
1	iK	72	THR	C-N-CA	7.19	129.88	120.60
1	jn	9	GLN	CA-C-N	7.19	132.60	122.46
1	jn	9	GLN	C-N-CA	7.19	132.60	122.46
1	ju	70	LYS	N-CA-C	7.19	120.17	111.82
1	jU	18	ARG	CA-C-N	7.19	130.25	120.54
1	jU	18	ARG	C-N-CA	7.19	130.25	120.54
1	kG	12	HIS	CE1-NE2-CD2	-7.19	101.81	109.00
1	l1	183	ASN	CA-CB-CG	-7.19	105.41	112.60
1	ly	131	LYS	CA-C-O	7.19	128.05	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2b	167	ARG	CA-C-N	7.19	130.25	120.54
1	2b	167	ARG	C-N-CA	7.19	130.25	120.54
1	2L	18	ARG	NE-CZ-NH2	-7.19	112.73	119.20
1	5y	84	HIS	CG-CD2-NE2	7.19	114.39	107.20
1	5U	177	ALA	O-C-N	-7.19	114.02	122.87
1	64	63	GLN	N-CA-C	7.19	119.98	111.71
1	6c	118	MET	O-C-N	-7.19	113.11	122.39
1	6i	227	LYS	N-CA-C	7.19	119.12	111.28
1	7m	143	ARG	NE-CZ-NH2	-7.19	112.72	119.20
1	7z	169	TYR	CA-C-N	7.19	129.92	120.28
1	7z	169	TYR	C-N-CA	7.19	129.92	120.28
1	7H	168	PHE	CA-C-O	7.19	128.37	120.82
1	aT	26	VAL	N-CA-C	7.19	117.33	110.42
1	aU	121	ASN	OD1-CG-ND2	-7.19	115.41	122.60
1	d4	64	ALA	CA-C-N	7.19	130.25	120.54
1	d4	64	ALA	C-N-CA	7.19	130.25	120.54
1	em	159	GLU	CA-C-N	7.19	128.83	119.84
1	em	159	GLU	C-N-CA	7.19	128.83	119.84
1	eC	62	HIS	ND1-CG-CD2	7.19	113.29	106.10
1	eZ	172	LEU	O-C-N	-7.19	114.49	122.12
1	fM	189	LEU	CA-C-N	7.19	129.92	120.28
1	fM	189	LEU	C-N-CA	7.19	129.92	120.28
1	T	143	ARG	N-CA-C	7.19	118.77	111.07
1	U	3	VAL	O-C-N	-7.19	114.80	123.00
1	g9	181	VAL	N-CA-C	7.19	117.96	110.62
1	gt	132	ARG	O-C-N	-7.19	114.50	122.12
1	gH	47	ALA	CA-C-N	7.19	131.61	120.68
1	gH	47	ALA	C-N-CA	7.19	131.61	120.68
1	i3	152	ASP	CA-C-O	-7.19	110.99	119.48
1	jT	13	GLN	CG-CD-NE2	-7.19	105.61	116.40
1	l1	46	GLY	CA-C-O	7.19	127.33	119.06
1	lP	146	SER	CA-C-O	-7.19	113.92	119.46
1	2h	29	GLU	N-CA-C	7.19	118.81	110.97
1	2S	55	MET	O-C-N	-7.19	114.50	122.12
1	2S	185	MET	N-CA-C	7.19	118.77	111.07
1	3w	84	HIS	CE1-NE2-CD2	-7.19	101.81	109.00
1	3G	17	PRO	CB-CA-C	7.19	123.43	111.56
1	4l	174	ALA	O-C-N	-7.19	113.69	122.25
1	4z	120	HIS	CE1-NE2-CD2	-7.19	101.81	109.00
1	4R	146	SER	CA-C-N	7.19	127.81	120.04
1	4R	146	SER	C-N-CA	7.19	127.81	120.04
1	4U	145	TYR	CA-CB-CG	-7.19	100.95	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5d	194	ALA	N-CA-C	7.19	119.61	110.33
1	6E	168	PHE	CA-CB-CG	-7.19	106.61	113.80
1	6U	211	LEU	O-C-N	-7.19	112.53	122.46
1	7w	98	GLU	N-CA-C	7.19	118.96	109.83
1	7y	174	ALA	CA-C-N	7.19	130.22	120.44
1	7y	174	ALA	C-N-CA	7.19	130.22	120.44
1	7Z	228	ALA	N-CA-C	7.19	119.85	110.43
1	8G	195	ASN	CA-CB-CG	7.19	119.79	112.60
1	98	121	ASN	CA-CB-CG	7.19	119.79	112.60
1	9o	48	THR	CA-C-O	-7.19	112.86	120.70
1	a3	48	THR	O-C-N	-7.19	113.05	121.32
1	as	53	ASN	N-CA-C	7.19	119.12	111.28
1	aY	168	PHE	N-CA-C	7.19	118.77	111.07
1	b0	100	ARG	CA-C-N	7.19	128.09	120.03
1	b0	100	ARG	C-N-CA	7.19	128.09	120.03
1	bD	35	GLU	CA-C-O	7.19	128.23	120.10
1	ca	15	ILE	CA-C-O	7.19	129.27	121.36
1	cp	124	ILE	CA-C-O	-7.19	113.78	119.25
1	de	43	LEU	N-CA-C	7.19	119.12	111.28
1	e8	204	ALA	N-CA-C	7.19	119.12	111.28
1	1u	198	CYS	N-CA-C	7.19	119.20	111.36
1	fl	50	GLN	N-CA-C	7.19	118.77	111.07
1	l	96	MET	N-CA-CB	7.19	120.54	109.97
1	gj	87	HIS	CG-CD2-NE2	7.19	114.39	107.20
1	hg	217	ALA	N-CA-CB	-7.19	99.81	110.17
1	hB	40	PHE	CA-C-N	7.19	129.79	120.44
1	hB	40	PHE	C-N-CA	7.19	129.79	120.44
1	ii	23	TRP	O-C-N	7.19	129.57	122.09
1	ix	187	GLU	N-CA-C	7.19	119.12	111.28
1	jO	126	VAL	N-CA-C	7.19	121.09	111.17
1	jU	169	TYR	O-C-N	-7.19	114.50	122.12
1	kZ	143	ARG	N-CA-C	7.19	119.20	111.36
1	lk	70	LYS	O-C-N	-7.19	113.95	122.15
1	lz	58	THR	CA-C-N	7.19	130.19	120.63
1	lz	58	THR	C-N-CA	7.19	130.19	120.63
1	lL	56	LEU	CA-C-O	-7.19	112.80	120.42
1	2a	159	GLU	O-C-N	-7.19	114.90	121.30
1	3z	84	HIS	CA-CB-CG	-7.19	106.61	113.80
1	3D	190	LEU	N-CA-C	7.19	119.98	111.71
1	3Q	190	LEU	N-CA-C	7.19	119.12	111.28
1	4p	104	ILE	O-C-N	-7.19	114.42	121.83
1	55	36	VAL	CA-C-N	7.19	127.33	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	55	36	VAL	C-N-CA	7.19	127.33	120.43
1	6V	92	GLU	CA-C-N	7.19	128.83	119.84
1	6V	92	GLU	C-N-CA	7.19	128.83	119.84
1	7k	75	GLU	N-CA-C	7.19	119.12	111.28
1	82	189	LEU	N-CA-C	7.19	119.12	111.28
1	8y	81	ASP	O-C-N	-7.19	114.66	122.07
1	8D	167	ARG	CA-C-N	7.19	130.50	120.29
1	8D	167	ARG	C-N-CA	7.19	130.50	120.29
1	8Y	92	GLU	CA-C-N	7.19	128.83	119.84
1	8Y	92	GLU	C-N-CA	7.19	128.83	119.84
1	9J	14	ALA	N-CA-C	7.19	120.26	110.55
1	a0	14	ALA	N-CA-CB	7.19	120.69	109.69
1	bY	226	HIS	CA-CB-CG	-7.19	106.61	113.80
1	c5	165	VAL	CA-C-O	-7.19	113.55	121.17
1	c8	199	LYS	N-CA-C	7.19	120.03	111.33
1	1i	199	LYS	O-C-N	-7.19	114.50	122.12
1	di	135	ILE	N-CA-C	7.19	117.95	110.62
1	dy	134	ILE	CA-C-N	7.19	130.63	120.42
1	dy	134	ILE	C-N-CA	7.19	130.63	120.42
1	dG	208	ALA	CA-C-N	7.19	131.02	120.95
1	dG	208	ALA	C-N-CA	7.19	131.02	120.95
1	e1	25	LYS	CG-CD-CE	7.19	127.84	111.30
1	1p	121	ASN	CA-CB-CG	-7.19	105.41	112.60
1	eZ	47	ALA	N-CA-C	7.19	120.75	109.96
1	fa	41	SER	CA-C-N	7.19	131.24	120.31
1	fa	41	SER	C-N-CA	7.19	131.24	120.31
1	fv	179	GLN	CA-C-O	7.19	128.23	120.10
1	fB	206	GLY	CA-C-N	7.19	126.90	119.64
1	fB	206	GLY	C-N-CA	7.19	126.90	119.64
1	fW	37	ILE	CA-C-O	-7.19	113.87	118.69
1	g1	205	LEU	CA-C-N	7.19	133.16	121.87
1	g1	205	LEU	C-N-CA	7.19	133.16	121.87
1	gl	174	ALA	CA-C-O	-7.19	110.91	119.03
1	h9	129	ILE	O-C-N	-7.19	114.42	121.83
1	ht	74	ASN	CA-CB-CG	7.19	119.79	112.60
1	hH	26	VAL	CA-C-O	-7.19	113.55	121.17
1	28	26	VAL	N-CA-C	7.19	117.32	110.42
1	lH	105	ALA	CA-C-N	7.19	135.50	121.41
1	lH	105	ALA	C-N-CA	7.19	135.50	121.41
1	2H	72	THR	CA-C-O	-7.19	112.93	120.55
1	3J	182	LYS	N-CA-C	7.19	120.16	111.82
1	3L	130	TYR	O-C-N	-7.19	114.67	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6a	71	GLU	CA-C-N	7.19	129.91	120.28
1	6a	71	GLU	C-N-CA	7.19	129.91	120.28
1	6Z	40	PHE	CA-C-N	7.19	130.63	120.28
1	6Z	40	PHE	C-N-CA	7.19	130.63	120.28
1	8V	90	PRO	CB-CA-C	7.19	120.69	111.56
1	8Y	121	ASN	CA-CB-CG	7.19	119.79	112.60
1	9f	87	HIS	CG-CD2-NE2	7.19	114.39	107.20
1	aW	138	LEU	N-CA-C	7.19	119.12	111.28
1	bx	81	ASP	CA-C-N	7.19	129.91	120.28
1	bx	81	ASP	C-N-CA	7.19	129.91	120.28
1	bK	134	ILE	N-CA-CB	7.19	118.96	110.55
1	d2	210	THR	O-C-N	-7.19	114.59	122.79
1	d4	122	PRO	CA-C-N	7.19	127.16	119.76
1	d4	122	PRO	C-N-CA	7.19	127.16	119.76
1	ds	127	GLY	CA-C-O	7.19	128.28	120.66
1	dY	143	ARG	CG-CD-NE	-7.19	96.19	112.00
1	ei	173	ARG	CB-CA-C	7.19	122.17	110.88
1	eK	165	VAL	O-C-N	-7.19	114.90	121.87
1	gV	132	ARG	NE-CZ-NH1	7.19	128.69	121.50
1	h7	158	LYS	CA-C-N	7.19	130.70	120.49
1	h7	158	LYS	C-N-CA	7.19	130.70	120.49
1	hP	117	TRP	N-CA-C	7.19	118.76	111.07
1	i1	94	GLY	O-C-N	-7.19	113.36	122.70
1	io	57	ASN	OD1-CG-ND2	7.19	129.79	122.60
1	it	195	ASN	CA-CB-CG	7.19	119.79	112.60
1	iO	59	VAL	CA-C-O	7.19	129.75	120.69
1	jF	19	THR	N-CA-CB	7.19	120.69	110.12
1	kP	114	GLN	CA-C-N	7.19	130.19	120.77
1	kP	114	GLN	C-N-CA	7.19	130.19	120.77
1	l5	183	ASN	CA-CB-CG	-7.19	105.41	112.60
1	lB	47	ALA	O-C-N	-7.19	114.82	123.16
1	2X	21	ASN	CA-C-N	7.19	129.91	120.28
1	2X	21	ASN	C-N-CA	7.19	129.91	120.28
1	34	132	ARG	O-C-N	-7.19	113.96	122.15
1	3d	84	HIS	CA-CB-CG	7.19	120.99	113.80
1	3m	173	ARG	NE-CZ-NH1	7.19	128.69	121.50
1	3B	85	PRO	N-CA-C	7.19	122.50	111.15
1	4b	36	VAL	O-C-N	-7.19	113.70	122.18
1	51	34	PRO	CB-CA-C	7.19	122.17	111.68
1	5n	15	ILE	O-C-N	-7.19	115.34	122.67
1	5p	167	ARG	NH1-CZ-NH2	-7.19	109.96	119.30
1	5F	62	HIS	CA-C-N	7.19	129.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	62	HIS	C-N-CA	7.19	129.91	120.28
1	6B	51	ASP	CA-C-O	-7.19	112.80	120.42
1	6K	82	ARG	NE-CZ-NH2	7.19	125.67	119.20
1	70	92	GLU	CA-C-N	7.19	127.59	119.83
1	70	92	GLU	C-N-CA	7.19	127.59	119.83
1	7j	40	PHE	O-C-N	-7.19	114.62	122.09
1	7H	159	GLU	CB-CA-C	7.19	119.82	109.26
1	84	14	ALA	CA-C-N	7.19	134.91	121.97
1	84	14	ALA	C-N-CA	7.19	134.91	121.97
1	8e	154	ARG	NH1-CZ-NH2	-7.19	109.96	119.30
1	8s	21	ASN	OD1-CG-ND2	-7.19	115.41	122.60
1	9e	228	ALA	CA-C-N	7.19	131.59	121.24
1	9e	228	ALA	C-N-CA	7.19	131.59	121.24
1	9G	147	PRO	CA-C-N	7.19	131.78	121.50
1	9G	147	PRO	C-N-CA	7.19	131.78	121.50
1	9H	12	HIS	O-C-N	-7.19	114.53	123.01
1	9N	130	TYR	CA-C-N	7.19	129.91	120.28
1	9N	130	TYR	C-N-CA	7.19	129.91	120.28
1	a4	123	PRO	CA-C-O	-7.19	113.48	121.32
1	12	85	PRO	CA-C-N	7.19	131.99	122.93
1	12	85	PRO	C-N-CA	7.19	131.99	122.93
1	bt	65	ALA	CA-C-N	7.19	129.78	120.44
1	bt	65	ALA	C-N-CA	7.19	129.78	120.44
1	bO	57	ASN	OD1-CG-ND2	-7.19	115.41	122.60
1	bX	158	LYS	N-CA-C	-7.19	102.52	112.30
1	c9	41	SER	N-CA-C	7.19	118.76	111.07
1	cm	162	ARG	NE-CZ-NH1	7.19	128.69	121.50
1	cJ	4	GLN	N-CA-C	-7.19	106.43	114.62
1	cZ	189	LEU	N-CA-C	7.19	119.11	111.28
1	ec	35	GLU	N-CA-C	7.19	121.49	112.87
1	eE	132	ARG	N-CA-C	7.19	119.11	111.28
1	f1	185	MET	N-CA-C	7.19	119.11	111.28
1	fa	188	THR	CA-C-N	7.19	130.23	120.38
1	fa	188	THR	C-N-CA	7.19	130.23	120.38
1	fH	170	LYS	CA-C-O	7.19	128.37	120.82
1	fP	144	MET	N-CA-C	7.19	119.19	111.36
1	fR	166	ASP	CA-C-O	-7.19	113.45	121.00
1	s	223	GLY	CA-C-N	7.19	128.82	119.84
1	s	223	GLY	C-N-CA	7.19	128.82	119.84
1	4	25	LYS	N-CA-C	7.19	118.76	111.07
1	gZ	78	ALA	CA-C-N	7.19	129.91	120.28
1	gZ	78	ALA	C-N-CA	7.19	129.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	216	THR	CA-C-N	7.19	131.07	120.87
1	hr	216	THR	C-N-CA	7.19	131.07	120.87
1	1X	202	LEU	N-CA-C	7.19	119.11	111.28
1	l9	10	MET	N-CA-C	7.19	120.65	110.23
1	3R	139	ASN	OD1-CG-ND2	-7.19	115.41	122.60
1	4c	184	TRP	N-CA-C	7.19	118.76	111.07
1	4f	143	ARG	CA-C-N	7.19	130.49	120.29
1	4f	143	ARG	C-N-CA	7.19	130.49	120.29
1	5y	184	TRP	CA-C-N	7.19	129.78	120.44
1	5y	184	TRP	C-N-CA	7.19	129.78	120.44
1	5M	39	MET	N-CA-C	7.19	119.11	111.28
1	69	141	ILE	CA-C-O	-7.19	113.55	121.17
1	6a	178	SER	CA-C-N	7.19	130.22	120.38
1	6a	178	SER	C-N-CA	7.19	130.22	120.38
1	7c	106	GLY	CA-C-O	7.19	126.06	118.95
1	7t	57	ASN	OD1-CG-ND2	-7.19	115.41	122.60
1	8b	7	GLN	OE1-CD-NE2	-7.19	115.41	122.60
1	9Q	148	THR	O-C-N	-7.19	115.06	123.25
1	aI	212	GLU	N-CA-C	-7.19	103.38	111.07
1	bw	138	LEU	CA-C-N	7.19	129.91	120.28
1	bw	138	LEU	C-N-CA	7.19	129.91	120.28
1	bF	130	TYR	CA-C-N	7.19	129.91	120.28
1	bF	130	TYR	C-N-CA	7.19	129.91	120.28
1	e4	132	ARG	NE-CZ-NH1	7.19	128.69	121.50
1	fw	226	HIS	CA-CB-CG	7.19	120.99	113.80
1	V	69	LEU	N-CA-C	7.19	119.73	111.11
1	gj	208	ALA	N-CA-CB	7.18	122.63	110.49
1	gr	140	LYS	N-CA-C	7.18	118.76	111.07
1	gF	223	GLY	CA-C-N	7.18	127.62	119.93
1	gF	223	GLY	C-N-CA	7.18	127.62	119.93
1	i5	33	SER	CA-C-N	7.18	128.82	119.84
1	i5	33	SER	C-N-CA	7.18	128.82	119.84
1	iW	206	GLY	O-C-N	-7.18	114.59	121.77
1	j5	111	LEU	CA-C-N	7.18	130.24	120.54
1	j5	111	LEU	C-N-CA	7.18	130.24	120.54
1	jw	39	MET	CA-C-N	7.18	129.78	120.44
1	jw	39	MET	C-N-CA	7.18	129.78	120.44
1	jH	70	LYS	CA-C-N	7.18	131.23	120.31
1	jH	70	LYS	C-N-CA	7.18	131.23	120.31
1	jL	194	ALA	N-CA-C	7.18	119.84	110.43
1	24	78	ALA	CA-C-N	7.18	129.91	120.28
1	24	78	ALA	C-N-CA	7.18	129.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	68	MET	O-C-N	-7.18	114.50	122.12
1	l5	229	ARG	NE-CZ-NH2	-7.18	112.73	119.20
1	l6	65	ALA	N-CA-C	7.18	118.76	111.07
1	lh	223	GLY	CA-C-N	7.18	128.82	119.84
1	lh	223	GLY	C-N-CA	7.18	128.82	119.84
1	lj	100	ARG	CA-C-N	7.18	128.08	120.03
1	lj	100	ARG	C-N-CA	7.18	128.08	120.03
1	lu	140	LYS	CA-C-N	7.18	129.87	120.60
1	lu	140	LYS	C-N-CA	7.18	129.87	120.60
1	2r	69	LEU	N-CA-C	7.18	119.11	111.28
1	3a	198	CYS	O-C-N	-7.18	113.01	122.42
1	3l	82	ARG	NH1-CZ-NH2	-7.18	109.96	119.30
1	3E	186	THR	O-C-N	-7.18	113.96	122.15
1	41	191	VAL	N-CA-C	7.18	117.32	110.42
1	46	132	ARG	N-CA-CB	-7.18	99.56	110.12
1	5Q	89	GLY	CA-C-N	7.18	127.62	119.93
1	5Q	89	GLY	C-N-CA	7.18	127.62	119.93
1	6e	164	TYR	CA-C-N	7.18	129.61	120.56
1	6e	164	TYR	C-N-CA	7.18	129.61	120.56
1	6L	203	LYS	CA-C-N	7.18	129.78	120.44
1	6L	203	LYS	C-N-CA	7.18	129.78	120.44
1	7d	60	GLY	CA-C-N	7.18	128.82	122.43
1	7d	60	GLY	C-N-CA	7.18	128.82	122.43
1	7S	72	THR	N-CA-C	7.18	119.11	111.28
1	86	83	LEU	N-CA-C	7.18	118.76	111.07
1	8C	209	ALA	O-C-N	-7.18	114.53	123.01
1	8T	162	ARG	CA-C-O	7.18	128.23	119.97
1	9c	160	PRO	CA-C-O	-7.18	113.38	121.43
1	an	193	ASN	CA-CB-CG	-7.18	105.42	112.60
1	au	155	GLN	OE1-CD-NE2	-7.18	115.42	122.60
1	aB	132	ARG	CA-C-O	-7.18	113.21	120.90
1	13	17	PRO	CA-C-N	7.18	129.91	120.28
1	13	17	PRO	C-N-CA	7.18	129.91	120.28
1	aW	54	THR	N-CA-C	7.18	118.76	111.07
1	bE	98	GLU	O-C-N	-7.18	113.63	121.53
1	bZ	210	THR	CA-CB-OG1	7.18	120.38	109.60
1	c5	191	VAL	N-CA-C	7.18	117.95	110.62
1	cd	68	MET	CA-C-O	7.18	128.39	120.63
1	ct	134	ILE	N-CA-C	7.18	117.28	110.53
1	dH	74	ASN	CA-C-N	7.18	129.78	120.44
1	dH	74	ASN	C-N-CA	7.18	129.78	120.44
1	ei	110	THR	CA-C-N	7.18	129.78	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ei	110	THR	C-N-CA	7.18	129.78	120.44
1	ez	140	LYS	N-CA-C	7.18	119.11	111.28
1	eK	154	ARG	NE-CZ-NH2	7.18	125.67	119.20
1	f7	139	ASN	CA-CB-CG	7.18	119.78	112.60
1	f8	96	MET	O-C-N	-7.18	114.53	123.01
1	fR	84	HIS	ND1-CE1-NE2	7.18	115.58	108.40
1	fT	183	ASN	CA-CB-CG	-7.18	105.42	112.60
1	j	185	MET	N-CA-C	7.18	119.73	111.11
1	l	16	SER	CA-C-N	7.18	127.18	119.28
1	l	16	SER	C-N-CA	7.18	127.18	119.28
1	s	12	HIS	O-C-N	-7.18	114.03	122.87
1	B	100	ARG	O-C-N	-7.18	114.27	122.68
1	gt	21	ASN	OD1-CG-ND2	7.18	129.78	122.60
1	gF	27	VAL	O-C-N	-7.18	114.43	121.83
1	gQ	62	HIS	O-C-N	-7.18	113.04	122.59
1	gU	108	THR	OG1-CB-CG2	-7.18	94.93	109.30
1	1H	160	PRO	CA-C-N	7.18	130.49	120.29
1	1H	160	PRO	C-N-CA	7.18	130.49	120.29
1	h8	149	SER	CA-C-N	7.18	130.30	120.46
1	h8	149	SER	C-N-CA	7.18	130.30	120.46
1	hg	119	THR	CA-CB-OG1	7.18	120.37	109.60
1	1L	152	ASP	N-CA-C	7.18	118.76	111.07
1	ic	20	LEU	N-CA-CB	7.18	120.42	110.01
1	il	183	ASN	O-C-N	-7.18	114.67	122.07
1	iW	15	ILE	O-C-N	-7.18	115.02	122.63
1	jk	181	VAL	O-C-N	-7.18	114.90	121.87
1	ju	183	ASN	N-CA-CB	7.18	120.43	110.01
1	jx	80	TRP	CD2-CE2-CZ2	-7.18	115.22	122.40
1	jI	116	GLY	CA-C-N	7.18	129.78	120.44
1	jI	116	GLY	C-N-CA	7.18	129.78	120.44
1	jU	100	ARG	NE-CZ-NH2	7.18	125.66	119.20
1	kf	11	VAL	O-C-N	-7.18	113.74	122.36
1	kk	23	TRP	N-CA-C	7.18	118.75	111.07
1	24	40	PHE	CA-CB-CG	-7.18	106.62	113.80
1	kV	129	ILE	N-CA-C	7.18	117.90	110.36
1	l4	174	ALA	N-CA-C	7.18	119.19	111.36
1	2a	120	HIS	CE1-NE2-CD2	-7.18	101.82	109.00
1	2h	25	LYS	N-CA-C	7.18	118.90	111.14
1	2i	77	ALA	CA-C-N	7.18	129.91	120.28
1	2i	77	ALA	C-N-CA	7.18	129.91	120.28
1	2j	103	ASP	CA-C-N	7.18	130.62	120.42
1	2j	103	ASP	C-N-CA	7.18	130.62	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2C	3	VAL	O-C-N	-7.18	115.64	123.18
1	2H	129	ILE	N-CA-CB	7.18	119.77	110.57
1	2Z	169	TYR	N-CA-C	7.18	119.11	111.28
1	3p	82	ARG	CA-C-N	7.18	129.78	120.44
1	3p	82	ARG	C-N-CA	7.18	129.78	120.44
1	3O	182	LYS	N-CA-C	7.18	118.75	111.07
1	3T	89	GLY	CA-C-N	7.18	128.82	119.84
1	3T	89	GLY	C-N-CA	7.18	128.82	119.84
1	4i	55	MET	O-C-N	-7.18	114.67	122.07
1	4x	25	LYS	CA-C-N	7.18	129.87	120.60
1	4x	25	LYS	C-N-CA	7.18	129.87	120.60
1	4Q	192	GLN	N-CA-C	7.18	120.15	111.82
1	5k	198	CYS	O-C-N	7.18	129.47	122.07
1	5D	120	HIS	ND1-CE1-NE2	7.18	115.58	108.40
1	5M	121	ASN	CB-CA-C	7.18	118.14	110.17
1	5P	155	GLN	N-CA-C	7.18	120.64	110.23
1	5T	48	THR	N-CA-CB	7.18	118.07	109.74
1	7u	217	ALA	N-CA-C	7.18	120.12	110.35
1	7Y	180	GLU	CA-C-O	7.18	128.16	120.55
1	86	227	LYS	N-CA-C	7.18	119.58	110.24
1	8d	206	GLY	CA-C-N	7.18	128.42	120.45
1	8d	206	GLY	C-N-CA	7.18	128.42	120.45
1	8n	125	PRO	CA-C-N	7.18	134.90	121.97
1	8n	125	PRO	C-N-CA	7.18	134.90	121.97
1	8B	97	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	9u	178	SER	CA-C-N	7.18	129.78	120.44
1	9u	178	SER	C-N-CA	7.18	129.78	120.44
1	9z	226	HIS	CA-C-O	7.18	128.96	120.20
1	av	107	THR	N-CA-C	-7.18	100.10	111.02
1	15	62	HIS	CA-CB-CG	7.18	120.98	113.80
1	be	162	ARG	O-C-N	-7.18	114.51	122.12
1	bp	162	ARG	N-CA-C	7.18	118.75	111.07
1	bw	80	TRP	CD2-CE3-CZ3	-7.18	109.26	118.60
1	bK	97	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	1c	73	ILE	N-CA-CB	7.18	118.95	110.55
1	cg	10	MET	N-CA-C	7.18	120.16	111.40
1	cs	209	ALA	CA-C-N	7.18	131.07	120.87
1	cs	209	ALA	C-N-CA	7.18	131.07	120.87
1	cS	82	ARG	O-C-N	-7.18	113.96	122.15
1	d2	20	LEU	CA-C-N	7.18	129.78	120.44
1	d2	20	LEU	C-N-CA	7.18	129.78	120.44
1	di	41	SER	N-CA-C	7.18	119.11	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e0	166	ASP	N-CA-C	7.18	119.97	111.71
1	eE	146	SER	O-C-N	-7.18	113.06	121.32
1	fi	54	THR	N-CA-CB	7.18	120.68	110.12
1	fm	82	ARG	NH1-CZ-NH2	-7.18	109.96	119.30
1	fn	208	ALA	N-CA-C	7.18	121.30	112.54
1	fs	141	ILE	O-C-N	-7.18	115.02	122.20
1	ft	63	GLN	N-CA-C	7.18	119.11	111.28
1	fJ	26	VAL	CA-C-N	7.18	129.61	120.56
1	fJ	26	VAL	C-N-CA	7.18	129.61	120.56
1	fZ	59	VAL	CB-CA-C	7.18	121.14	111.88
1	k	121	ASN	OD1-CG-ND2	-7.18	115.42	122.60
1	3	212	GLU	N-CA-C	7.18	119.11	111.28
1	gE	50	GLN	CA-C-N	7.18	129.78	120.44
1	gE	50	GLN	C-N-CA	7.18	129.78	120.44
1	1J	80	TRP	CA-C-O	7.18	128.03	120.42
1	i6	61	GLY	O-C-N	-7.18	114.69	122.95
1	kJ	113	GLU	CA-C-N	7.18	129.78	120.44
1	kJ	113	GLU	C-N-CA	7.18	129.78	120.44
1	l1	18	ARG	NE-CZ-NH2	7.18	125.66	119.20
1	lG	203	LYS	N-CA-C	7.18	119.97	111.71
1	38	74	ASN	CA-CB-CG	7.18	119.78	112.60
1	3v	202	LEU	CA-C-N	7.18	129.90	120.28
1	3v	202	LEU	C-N-CA	7.18	129.90	120.28
1	56	132	ARG	NH1-CZ-NH2	-7.18	109.97	119.30
1	5i	226	HIS	CE1-NE2-CD2	-7.18	101.82	109.00
1	67	46	GLY	O-C-N	-7.18	114.12	122.31
1	7p	185	MET	CA-C-O	7.18	128.36	120.82
1	8T	70	LYS	N-CA-C	7.18	119.73	111.11
1	9f	44	SER	N-CA-CB	7.18	121.70	111.65
1	9W	69	LEU	O-C-N	-7.18	113.85	122.11
1	a4	64	ALA	N-CA-CB	7.18	120.79	110.16
1	a8	35	GLU	N-CA-C	7.18	120.94	111.75
1	b9	149	SER	N-CA-CB	7.18	122.62	110.49
1	cl	114	GLN	CA-C-N	7.18	130.30	120.46
1	cl	114	GLN	C-N-CA	7.18	130.30	120.46
1	cm	115	ILE	CA-C-N	7.18	127.91	119.94
1	cm	115	ILE	C-N-CA	7.18	127.91	119.94
1	dn	144	MET	N-CA-C	-7.18	103.45	111.71
1	dA	59	VAL	N-CA-C	7.18	117.57	107.37
1	e1	21	ASN	N-CA-C	7.18	119.11	111.28
1	1C	168	PHE	O-C-N	-7.18	114.62	122.09
1	gK	96	MET	O-C-N	-7.18	113.86	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h2	143	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	iy	55	MET	N-CA-C	7.18	118.75	111.07
1	iW	227	LYS	O-C-N	-7.18	114.40	122.23
1	iX	35	GLU	CA-C-N	7.18	130.30	120.46
1	iX	35	GLU	C-N-CA	7.18	130.30	120.46
1	jp	98	GLU	CA-C-N	7.18	127.16	119.76
1	jp	98	GLU	C-N-CA	7.18	127.16	119.76
1	jy	186	THR	CA-C-N	7.18	129.90	120.28
1	jy	186	THR	C-N-CA	7.18	129.90	120.28
1	kF	62	HIS	N-CA-C	7.18	126.09	110.80
1	kN	163	ASP	CA-C-N	7.18	129.77	120.44
1	kN	163	ASP	C-N-CA	7.18	129.77	120.44
1	2m	177	ALA	N-CA-C	7.18	120.11	110.35
1	3r	163	ASP	CA-CB-CG	-7.18	105.42	112.60
1	3F	188	THR	O-C-N	7.18	126.14	120.83
1	42	229	ARG	CA-C-O	7.18	128.45	120.70
1	4l	215	MET	N-CA-C	7.18	119.97	111.71
1	4T	184	TRP	CA-C-N	7.18	129.90	120.28
1	4T	184	TRP	C-N-CA	7.18	129.90	120.28
1	4X	53	ASN	CA-CB-CG	-7.18	105.42	112.60
1	5g	21	ASN	CA-C-N	7.18	129.90	120.28
1	5g	21	ASN	C-N-CA	7.18	129.90	120.28
1	7h	190	LEU	CA-C-N	7.18	130.61	120.42
1	7h	190	LEU	C-N-CA	7.18	130.61	120.42
1	7w	101	GLY	O-C-N	-7.18	115.02	122.13
1	80	152	ASP	N-CA-C	7.18	119.97	111.71
1	8c	21	ASN	CA-C-N	7.18	129.77	120.44
1	8c	21	ASN	C-N-CA	7.18	129.77	120.44
1	8o	136	LEU	CA-C-N	7.18	127.95	119.98
1	8o	136	LEU	C-N-CA	7.18	127.95	119.98
1	8y	172	LEU	CA-C-O	7.18	128.16	120.55
1	8V	213	GLU	N-CA-C	7.18	119.11	111.28
1	b6	5	ASN	OD1-CG-ND2	-7.18	115.42	122.60
1	18	201	ILE	N-CA-C	7.18	117.31	110.42
1	bv	55	MET	N-CA-C	7.18	118.75	111.07
1	19	115	ILE	O-C-N	-7.18	114.91	121.87
1	c8	159	GLU	O-C-N	-7.18	113.39	121.36
1	c8	173	ARG	NE-CZ-NH2	-7.18	112.74	119.20
1	1d	195	ASN	CA-CB-CG	7.18	119.78	112.60
1	cu	27	VAL	N-CA-CB	7.18	120.30	110.54
1	cB	143	ARG	CA-C-N	7.18	130.49	120.29
1	cB	143	ARG	C-N-CA	7.18	130.49	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	109	SER	N-CA-CB	7.18	121.84	110.57
1	1r	109	SER	N-CA-C	7.18	120.94	109.24
1	gO	109	SER	O-C-N	-7.18	115.22	123.33
1	gU	63	GLN	N-CA-C	7.18	119.10	111.28
1	gX	86	VAL	CA-C-O	7.18	129.25	121.36
1	h0	15	ILE	CA-C-N	7.18	130.68	120.49
1	h0	15	ILE	C-N-CA	7.18	130.68	120.49
1	hu	32	PHE	CA-CB-CG	-7.18	106.62	113.80
1	je	84	HIS	CE1-NE2-CD2	-7.18	101.82	109.00
1	kj	152	ASP	CA-CB-CG	-7.18	105.42	112.60
1	lq	44	SER	N-CA-C	-7.18	103.83	112.59
1	lz	111	LEU	O-C-N	-7.18	114.51	122.12
1	lA	172	LEU	CA-C-N	7.18	132.88	120.68
1	lA	172	LEU	C-N-CA	7.18	132.88	120.68
1	2P	79	GLU	O-C-N	7.18	130.33	122.15
1	30	138	LEU	N-CA-CB	7.18	120.67	110.12
1	3H	41	SER	N-CA-C	-7.18	103.19	112.23
1	3P	24	VAL	CA-C-N	7.18	129.90	120.28
1	3P	24	VAL	C-N-CA	7.18	129.90	120.28
1	4A	83	LEU	N-CA-C	7.18	120.02	111.33
1	5s	86	VAL	N-CA-C	7.18	117.97	110.72
1	5D	20	LEU	O-C-N	-7.18	114.68	122.07
1	6k	228	ALA	CA-C-N	7.18	132.32	122.34
1	6k	228	ALA	C-N-CA	7.18	132.32	122.34
1	6U	6	LEU	CA-C-O	7.18	127.16	119.34
1	7k	143	ARG	CA-C-O	7.18	128.22	119.97
1	7K	126	VAL	N-CA-CB	7.18	121.35	110.58
1	82	114	GLN	CA-C-N	7.18	129.60	120.56
1	82	114	GLN	C-N-CA	7.18	129.60	120.56
1	8g	24	VAL	CA-C-N	7.18	129.90	120.28
1	8g	24	VAL	C-N-CA	7.18	129.90	120.28
1	95	15	ILE	N-CA-C	7.18	119.97	109.63
1	aG	78	ALA	CA-C-O	7.18	128.36	120.82
1	b9	80	TRP	CA-C-N	7.18	129.77	120.44
1	b9	80	TRP	C-N-CA	7.18	129.77	120.44
1	c2	167	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	cg	173	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	cj	55	MET	N-CA-C	7.18	119.72	111.11
1	d5	226	HIS	CA-C-N	7.18	132.86	121.66
1	d5	226	HIS	C-N-CA	7.18	132.86	121.66
1	dh	70	LYS	N-CA-C	7.18	119.10	111.28
1	eY	100	ARG	NE-CZ-NH2	-7.18	112.74	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gD	133	TRP	CA-C-N	7.18	130.29	120.46
1	gD	133	TRP	C-N-CA	7.18	130.29	120.46
1	1P	97	ARG	NE-CZ-NH2	-7.18	112.74	119.20
1	1S	62	HIS	ND1-CE1-NE2	7.18	115.58	108.40
1	1V	176	GLN	N-CA-C	-7.18	104.67	113.50
1	ks	204	ALA	N-CA-C	7.18	119.10	111.28
1	ld	8	GLY	CA-C-N	7.18	132.55	122.36
1	ld	8	GLY	C-N-CA	7.18	132.55	122.36
1	30	195	ASN	CA-CB-CG	7.18	119.78	112.60
1	31	145	TYR	CA-C-N	7.18	133.76	121.35
1	31	145	TYR	C-N-CA	7.18	133.76	121.35
1	42	183	ASN	CA-C-N	7.18	130.23	120.54
1	42	183	ASN	C-N-CA	7.18	130.23	120.54
1	47	26	VAL	N-CA-CB	7.18	119.75	110.57
1	4v	96	MET	O-C-N	-7.18	114.90	122.94
1	4B	174	ALA	N-CA-C	7.18	119.18	111.36
1	4L	82	ARG	NH1-CZ-NH2	-7.18	109.97	119.30
1	4T	175	GLU	CA-C-O	-7.18	113.30	121.19
1	5m	75	GLU	N-CA-C	7.18	119.10	111.28
1	5S	48	THR	CA-C-N	7.18	128.81	119.84
1	5S	48	THR	C-N-CA	7.18	128.81	119.84
1	6j	53	ASN	O-C-N	-7.18	114.51	122.12
1	6l	13	GLN	CA-C-N	7.18	131.59	120.75
1	6l	13	GLN	C-N-CA	7.18	131.59	120.75
1	6F	219	GLN	CA-C-N	7.18	129.33	120.22
1	6F	219	GLN	C-N-CA	7.18	129.33	120.22
1	74	58	THR	CA-C-O	7.18	128.09	120.70
1	7o	68	MET	CA-C-N	7.18	129.77	120.44
1	7o	68	MET	C-N-CA	7.18	129.77	120.44
1	7Z	153	ILE	CA-C-O	-7.18	113.47	121.36
1	81	149	SER	O-C-N	-7.18	114.67	122.85
1	8u	82	ARG	NE-CZ-NH1	7.18	128.68	121.50
1	8A	103	ASP	CA-C-N	7.18	129.60	120.56
1	8A	103	ASP	C-N-CA	7.18	129.60	120.56
1	9a	36	VAL	CA-C-N	7.18	126.07	120.33
1	9a	36	VAL	C-N-CA	7.18	126.07	120.33
1	9g	57	ASN	N-CA-C	7.18	120.14	111.82
1	a2	8	GLY	N-CA-C	-7.18	104.72	112.04
1	a3	187	GLU	N-CA-C	7.18	119.10	111.28
1	as	75	GLU	N-CA-C	7.18	119.10	111.28
1	bd	115	ILE	N-CA-C	7.18	117.94	110.62
1	by	124	ILE	O-C-N	-7.18	116.85	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cV	207	PRO	CA-C-N	7.18	132.58	122.46
1	cV	207	PRO	C-N-CA	7.18	132.58	122.46
1	1i	62	HIS	N-CA-C	7.18	121.29	111.17
1	dg	74	ASN	CA-CB-CG	-7.18	105.42	112.60
1	dx	164	TYR	O-C-N	7.18	129.46	122.07
1	eq	192	GLN	OE1-CD-NE2	-7.18	115.42	122.60
1	eB	20	LEU	CA-C-O	7.18	128.16	120.55
1	f7	159	GLU	CA-C-N	7.18	127.21	119.89
1	f7	159	GLU	C-N-CA	7.18	127.21	119.89
1	g	100	ARG	CA-C-N	7.18	127.95	119.98
1	g	100	ARG	C-N-CA	7.18	127.95	119.98
1	W	131	LYS	N-CA-C	7.18	120.01	111.33
1	7	42	ALA	CA-C-O	7.18	128.16	120.55
1	gp	21	ASN	N-CA-C	7.17	119.10	111.28
1	hc	180	GLU	O-C-N	-7.17	114.52	122.12
1	hR	133	TRP	CB-CG-CD2	-7.17	116.75	126.80
1	io	14	ALA	N-CA-C	7.17	120.63	110.23
1	iN	195	ASN	CA-C-N	7.17	128.81	119.84
1	iN	195	ASN	C-N-CA	7.17	128.81	119.84
1	iQ	219	GLN	O-C-N	-7.17	114.85	122.96
1	jc	49	PRO	CA-C-N	7.17	130.48	120.29
1	jc	49	PRO	C-N-CA	7.17	130.48	120.29
1	jQ	48	THR	N-CA-CB	7.17	118.88	109.55
1	kH	21	ASN	CB-CA-C	7.17	122.14	110.88
1	kZ	190	LEU	CA-C-N	7.17	130.61	120.42
1	kZ	190	LEU	C-N-CA	7.17	130.61	120.42
1	lj	213	GLU	CA-C-N	7.17	130.48	120.29
1	lj	213	GLU	C-N-CA	7.17	130.48	120.29
1	ln	168	PHE	O-C-N	-7.17	114.68	122.07
1	28	176	GLN	CB-CG-CD	7.17	124.80	112.60
1	2l	48	THR	CA-C-N	7.17	128.81	119.84
1	2l	48	THR	C-N-CA	7.17	128.81	119.84
1	3m	83	LEU	N-CA-C	7.17	119.10	111.28
1	3E	162	ARG	N-CA-C	7.17	120.01	111.33
1	3H	98	GLU	O-C-N	-7.17	114.75	121.35
1	3L	183	ASN	OD1-CG-ND2	-7.17	115.42	122.60
1	47	87	HIS	CA-CB-CG	-7.17	106.62	113.80
1	4r	193	ASN	OD1-CG-ND2	7.17	129.78	122.60
1	4u	113	GLU	CA-C-N	7.17	129.89	120.28
1	4u	113	GLU	C-N-CA	7.17	129.89	120.28
1	5z	227	LYS	CA-C-N	7.17	132.57	122.46
1	5z	227	LYS	C-N-CA	7.17	132.57	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Q	96	MET	O-C-N	-7.17	114.85	122.96
1	6Z	68	MET	N-CA-C	7.17	119.10	111.28
1	7Z	59	VAL	O-C-N	-7.17	115.07	122.75
1	8h	143	ARG	NH1-CZ-NH2	-7.17	109.97	119.30
1	8s	197	ASP	CA-CB-CG	-7.17	105.42	112.60
1	8B	97	ARG	NE-CZ-NH2	-7.17	112.74	119.20
1	9i	32	PHE	N-CA-C	7.17	121.82	110.70
1	a1	151	LEU	N-CA-CB	7.17	120.67	110.12
1	aa	12	HIS	ND1-CE1-NE2	7.17	115.57	108.40
1	aP	19	THR	CA-C-N	7.17	129.90	120.28
1	aP	19	THR	C-N-CA	7.17	129.90	120.28
1	bj	164	TYR	CA-C-N	7.17	130.29	120.46
1	bj	164	TYR	C-N-CA	7.17	130.29	120.46
1	bn	87	HIS	N-CA-C	7.17	119.57	110.24
1	bu	42	ALA	N-CA-C	7.17	118.75	111.07
1	bu	197	ASP	CA-C-O	-7.17	113.31	120.70
1	bu	207	PRO	CA-C-N	7.17	135.25	121.54
1	bu	207	PRO	C-N-CA	7.17	135.25	121.54
1	cp	113	GLU	N-CA-CB	7.17	120.78	110.16
1	cv	110	THR	O-C-N	-7.17	114.91	122.94
1	cG	79	GLU	CA-C-N	7.17	129.77	120.44
1	cG	79	GLU	C-N-CA	7.17	129.77	120.44
1	cX	84	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	d9	28	GLU	N-CA-C	7.17	119.10	111.28
1	ds	36	VAL	CA-C-N	7.17	124.76	120.24
1	ds	36	VAL	C-N-CA	7.17	124.76	120.24
1	dO	37	ILE	O-C-N	-7.17	112.92	121.10
1	e1	32	PHE	CA-CB-CG	-7.17	106.62	113.80
1	eg	162	ARG	NE-CZ-NH1	7.17	128.68	121.50
1	ej	84	HIS	N-CA-CB	7.17	119.63	110.23
1	fV	136	LEU	CA-C-N	7.17	127.89	120.00
1	fV	136	LEU	C-N-CA	7.17	127.89	120.00
1	fY	60	GLY	CA-C-N	7.17	128.26	120.44
1	fY	60	GLY	C-N-CA	7.17	128.26	120.44
1	q	164	TYR	CA-C-N	7.17	129.60	120.56
1	q	164	TYR	C-N-CA	7.17	129.60	120.56
1	s	148	THR	N-CA-CB	7.17	122.61	110.49
1	C	144	MET	N-CA-C	7.17	119.10	111.28
1	gE	195	ASN	CA-C-N	7.17	126.70	119.24
1	gE	195	ASN	C-N-CA	7.17	126.70	119.24
1	gF	37	ILE	N-CA-CB	7.17	115.02	110.50
1	ht	215	MET	CG-SD-CE	-7.17	85.12	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hT	183	ASN	CA-CB-CG	-7.17	105.43	112.60
1	kz	183	ASN	CA-CB-CG	7.17	119.77	112.60
1	kH	110	THR	N-CA-CB	7.17	120.50	110.17
1	li	152	ASP	CA-C-N	7.17	130.88	120.91
1	li	152	ASP	C-N-CA	7.17	130.88	120.91
1	2i	166	ASP	CB-CA-C	7.17	122.14	110.88
1	2X	50	GLN	OE1-CD-NE2	-7.17	115.43	122.60
1	3F	23	TRP	CA-C-O	-7.17	112.88	120.63
1	3U	18	ARG	O-C-N	-7.17	112.91	122.23
1	3Z	218	CYS	CA-C-O	-7.17	113.06	122.03
1	4d	42	ALA	N-CA-C	7.17	119.10	111.28
1	4A	184	TRP	CE2-CD2-CE3	7.17	125.97	118.80
1	52	16	SER	O-C-N	7.17	127.41	121.31
1	5F	76	GLU	CA-C-N	7.17	129.89	120.28
1	5F	76	GLU	C-N-CA	7.17	129.89	120.28
1	62	63	GLN	N-CA-C	7.17	120.14	111.82
1	6l	152	ASP	CA-C-N	7.17	130.39	120.49
1	6l	152	ASP	C-N-CA	7.17	130.39	120.49
1	6z	64	ALA	CA-C-O	7.17	128.35	120.82
1	70	33	SER	CA-C-O	-7.17	113.96	120.13
1	7K	164	TYR	CA-C-N	7.17	129.85	120.60
1	7K	164	TYR	C-N-CA	7.17	129.85	120.60
1	88	132	ARG	NE-CZ-NH1	7.17	128.67	121.50
1	8a	74	ASN	CA-CB-CG	7.17	119.77	112.60
1	8K	110	THR	CA-C-N	7.17	129.89	120.28
1	8K	110	THR	C-N-CA	7.17	129.89	120.28
1	95	82	ARG	NE-CZ-NH2	-7.17	112.74	119.20
1	9k	69	LEU	CA-C-N	7.17	129.76	120.44
1	9k	69	LEU	C-N-CA	7.17	129.76	120.44
1	9u	215	MET	CA-C-O	7.17	128.15	120.55
1	a9	140	LYS	CA-C-N	7.17	129.60	120.56
1	a9	140	LYS	C-N-CA	7.17	129.60	120.56
1	aM	12	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	16	129	ILE	O-C-N	-7.17	114.91	121.87
1	1b	40	PHE	CA-CB-CG	-7.17	106.63	113.80
1	cf	88	ALA	CA-C-N	7.17	133.13	121.87
1	cf	88	ALA	C-N-CA	7.17	133.13	121.87
1	cA	14	ALA	CA-C-N	7.17	130.39	120.49
1	cA	14	ALA	C-N-CA	7.17	130.39	120.49
1	dl	23	TRP	CB-CG-CD2	7.17	136.84	126.80
1	ep	179	GLN	N-CA-C	7.17	119.96	111.71
1	1t	76	GLU	N-CA-C	7.17	119.10	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	139	ASN	N-CA-C	7.17	118.75	111.07
1	z	203	LYS	O-C-N	-7.17	112.82	122.43
1	gq	182	LYS	N-CA-C	7.17	119.10	111.28
1	gJ	138	LEU	CA-C-N	7.17	129.89	120.28
1	gJ	138	LEU	C-N-CA	7.17	129.89	120.28
1	gM	223	GLY	CA-C-N	7.17	127.21	119.90
1	gM	223	GLY	C-N-CA	7.17	127.21	119.90
1	gV	63	GLN	CB-CG-CD	7.17	124.79	112.60
1	h7	95	GLN	CB-CG-CD	7.17	124.79	112.60
1	h9	55	MET	O-C-N	7.17	129.55	122.09
1	hm	65	ALA	CA-C-N	7.17	129.89	120.28
1	hm	65	ALA	C-N-CA	7.17	129.89	120.28
1	hW	192	GLN	N-CA-C	7.17	120.14	111.82
1	hY	197	ASP	CA-CB-CG	-7.17	105.43	112.60
1	iu	84	HIS	CB-CG-CD2	7.17	140.52	131.20
1	j5	31	ALA	O-C-N	-7.17	113.05	122.59
1	jR	158	LYS	CA-C-O	7.17	128.05	119.59
1	kH	35	GLU	O-C-N	-7.17	112.56	122.46
1	lf	7	GLN	OE1-CD-NE2	-7.17	115.43	122.60
1	lk	182	LYS	O-C-N	-7.17	114.52	122.12
1	3l	22	ALA	N-CA-CB	7.17	120.66	110.12
1	3C	154	ARG	NE-CZ-NH1	7.17	128.67	121.50
1	4V	62	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	5h	86	VAL	CA-C-N	7.17	130.93	120.82
1	5h	86	VAL	C-N-CA	7.17	130.93	120.82
1	6g	48	THR	CA-C-N	7.17	128.81	119.84
1	6g	48	THR	C-N-CA	7.17	128.81	119.84
1	7q	5	ASN	CA-C-N	7.17	131.58	120.75
1	7q	5	ASN	C-N-CA	7.17	131.58	120.75
1	7C	11	VAL	N-CA-C	7.17	118.62	108.36
1	9r	179	GLN	O-C-N	-7.17	114.52	122.12
1	9L	116	GLY	CA-C-O	7.17	128.44	121.05
1	aX	26	VAL	N-CA-CB	7.17	121.34	110.58
1	aX	217	ALA	N-CA-C	7.17	120.78	110.24
1	c5	122	PRO	CA-C-N	7.17	127.15	119.76
1	c5	122	PRO	C-N-CA	7.17	127.15	119.76
1	c5	206	GLY	CA-C-N	7.17	128.80	119.84
1	c5	206	GLY	C-N-CA	7.17	128.80	119.84
1	cu	166	ASP	CA-CB-CG	7.17	119.77	112.60
1	cM	51	ASP	CA-CB-CG	-7.17	105.43	112.60
1	1i	173	ARG	NE-CZ-NH2	-7.17	112.75	119.20
1	de	179	GLN	N-CA-C	7.17	119.96	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dy	78	ALA	CA-C-O	7.17	128.22	119.97
1	e1	168	PHE	CA-C-N	7.17	129.76	120.44
1	e1	168	PHE	C-N-CA	7.17	129.76	120.44
1	eB	143	ARG	NH1-CZ-NH2	-7.17	109.98	119.30
1	f4	81	ASP	O-C-N	-7.17	114.52	122.12
1	R	230	VAL	CA-C-O	7.17	127.24	119.35
1	gy	195	ASN	CA-C-N	7.17	128.80	119.84
1	gy	195	ASN	C-N-CA	7.17	128.80	119.84
1	jb	84	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	kf	97	ARG	NE-CZ-NH2	7.17	125.65	119.20
1	28	24	VAL	N-CA-C	7.17	117.30	110.42
1	2n	68	MET	CA-C-O	7.17	128.35	120.82
1	32	91	ILE	O-C-N	-7.17	115.19	122.14
1	3i	199	LYS	CA-C-N	7.17	130.22	120.54
1	3i	199	LYS	C-N-CA	7.17	130.22	120.54
1	3A	12	HIS	ND1-CE1-NE2	7.17	115.57	108.40
1	3R	164	TYR	N-CA-C	-7.17	103.40	111.14
1	4E	142	VAL	N-CA-C	7.17	118.79	110.62
1	6o	128	GLU	CA-C-O	7.17	128.15	120.55
1	7x	171	THR	CA-C-O	7.17	128.09	120.70
1	8z	223	GLY	CA-C-N	7.17	128.80	119.84
1	8z	223	GLY	C-N-CA	7.17	128.80	119.84
1	9n	148	THR	CA-C-O	7.17	128.86	120.69
1	9B	183	ASN	CA-C-N	7.17	130.19	120.44
1	9B	183	ASN	C-N-CA	7.17	130.19	120.44
1	9D	67	GLN	O-C-N	-7.17	114.69	122.07
1	a7	77	ALA	N-CA-CB	-7.17	99.55	110.16
1	b4	29	GLU	N-CA-C	7.17	119.17	111.36
1	be	213	GLU	CA-C-N	7.17	129.76	120.44
1	be	213	GLU	C-N-CA	7.17	129.76	120.44
1	bh	57	ASN	CA-CB-CG	-7.17	105.43	112.60
1	19	23	TRP	CE2-CD2-CE3	-7.17	111.63	118.80
1	ct	111	LEU	CA-C-O	7.17	128.15	120.55
1	dR	213	GLU	CA-C-N	7.17	129.89	120.28
1	dR	213	GLU	C-N-CA	7.17	129.89	120.28
1	1u	9	GLN	CA-C-O	7.17	122.10	117.94
1	gr	10	MET	N-CA-C	7.17	119.56	110.24
1	gz	159	GLU	CB-CA-C	7.17	119.98	108.87
1	gP	139	ASN	OD1-CG-ND2	-7.17	115.43	122.60
1	h2	106	GLY	O-C-N	-7.17	114.07	122.60
1	hk	49	PRO	N-CA-CB	7.17	111.21	103.33
1	hs	111	LEU	CA-C-N	7.17	130.20	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hs	111	LEU	C-N-CA	7.17	130.20	120.38
1	hU	68	MET	O-C-N	-7.17	114.52	122.12
1	iB	171	THR	N-CA-CB	7.17	120.40	110.01
1	iS	155	GLN	O-C-N	-7.17	114.86	122.96
1	jf	10	MET	O-C-N	-7.17	115.75	123.42
1	jQ	77	ALA	N-CA-C	7.17	120.00	111.33
1	kk	138	LEU	CB-CA-C	7.17	122.13	110.88
1	2a	104	ILE	CA-C-O	7.17	128.50	121.05
1	2c	211	LEU	O-C-N	-7.17	114.52	122.12
1	3N	82	ARG	NH1-CZ-NH2	-7.17	109.98	119.30
1	47	189	LEU	CA-C-N	7.17	130.60	120.28
1	47	189	LEU	C-N-CA	7.17	130.60	120.28
1	4c	159	GLU	CB-CA-C	-7.17	98.19	109.52
1	4T	63	GLN	O-C-N	-7.17	113.45	122.27
1	5x	12	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	6a	88	ALA	O-C-N	-7.17	113.52	122.19
1	6i	131	LYS	CA-C-N	7.17	129.89	120.28
1	6i	131	LYS	C-N-CA	7.17	129.89	120.28
1	6G	120	HIS	O-C-N	-7.17	113.99	122.81
1	70	157	PRO	O-C-N	7.17	130.83	122.23
1	7x	20	LEU	N-CA-C	7.17	119.95	111.71
1	7C	172	LEU	CA-C-N	7.17	129.89	120.28
1	7C	172	LEU	C-N-CA	7.17	129.89	120.28
1	7N	149	SER	N-CA-C	7.17	120.63	110.23
1	7X	181	VAL	CA-C-O	-7.17	113.57	121.17
1	8E	179	GLN	CA-C-N	7.17	130.20	120.38
1	8E	179	GLN	C-N-CA	7.17	130.20	120.38
1	a7	226	HIS	O-C-N	-7.17	114.05	122.87
1	b9	110	THR	CA-C-N	7.17	130.60	120.28
1	b9	110	THR	C-N-CA	7.17	130.60	120.28
1	bU	29	GLU	N-CA-C	7.17	119.17	111.36
1	bY	39	MET	CA-C-N	7.17	129.76	120.44
1	bY	39	MET	C-N-CA	7.17	129.76	120.44
1	cx	97	ARG	NE-CZ-NH2	-7.17	112.75	119.20
1	d9	88	ALA	CA-C-O	7.17	126.73	118.77
1	dE	146	SER	CA-C-O	-7.17	113.01	119.75
1	eM	128	GLU	N-CA-C	7.17	119.17	111.36
1	f6	49	PRO	N-CA-CB	7.17	110.78	103.25
1	0	59	VAL	CA-CB-CG2	7.17	122.59	110.40
1	7	131	LYS	N-CA-C	7.17	119.09	111.28
1	hR	50	GLN	CB-CA-C	-7.17	99.63	110.88
1	hR	100	ARG	CA-C-N	7.17	129.10	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hR	100	ARG	C-N-CA	7.17	129.10	120.14
1	ii	89	GLY	CA-C-N	7.17	128.80	119.84
1	ii	89	GLY	C-N-CA	7.17	128.80	119.84
1	ip	165	VAL	CA-C-N	7.17	129.88	120.28
1	ip	165	VAL	C-N-CA	7.17	129.88	120.28
1	iv	27	VAL	CA-C-N	7.17	129.88	120.28
1	iv	27	VAL	C-N-CA	7.17	129.88	120.28
1	jf	127	GLY	CA-C-N	7.17	129.88	120.28
1	jf	127	GLY	C-N-CA	7.17	129.88	120.28
1	jT	84	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	ka	10	MET	N-CA-C	7.17	120.62	110.23
1	ky	222	GLY	O-C-N	-7.17	116.65	122.81
1	kz	126	VAL	N-CA-C	7.17	118.79	110.62
1	23	143	ARG	NE-CZ-NH1	7.17	128.67	121.50
1	la	152	ASP	CB-CA-C	-7.17	99.48	111.02
1	2Z	57	ASN	CA-C-N	7.17	129.76	120.44
1	2Z	57	ASN	C-N-CA	7.17	129.76	120.44
1	3h	67	GLN	CA-C-N	7.17	129.88	120.28
1	3h	67	GLN	C-N-CA	7.17	129.88	120.28
1	4c	223	GLY	O-C-N	-7.17	114.60	121.77
1	4m	206	GLY	O-C-N	7.17	128.94	121.77
1	4w	102	SER	N-CA-C	7.17	119.95	111.71
1	4y	221	VAL	N-CA-C	7.17	117.93	110.62
1	4B	22	ALA	CA-C-N	7.17	129.88	120.28
1	4B	22	ALA	C-N-CA	7.17	129.88	120.28
1	5a	225	GLY	O-C-N	-7.17	116.65	122.81
1	5Y	165	VAL	CA-C-N	7.17	129.76	120.44
1	5Y	165	VAL	C-N-CA	7.17	129.76	120.44
1	6m	62	HIS	ND1-CG-CD2	7.17	113.27	106.10
1	6w	132	ARG	N-CA-C	7.17	119.09	111.28
1	6K	172	LEU	CA-C-N	7.17	129.88	120.28
1	6K	172	LEU	C-N-CA	7.17	129.88	120.28
1	8c	32	PHE	CA-CB-CG	-7.17	106.63	113.80
1	8f	28	GLU	O-C-N	-7.17	114.52	122.12
1	8z	100	ARG	CA-C-N	7.17	128.06	120.03
1	8z	100	ARG	C-N-CA	7.17	128.06	120.03
1	8T	162	ARG	NE-CZ-NH1	7.17	128.67	121.50
1	8U	22	ALA	CA-C-N	7.17	129.88	120.28
1	8U	22	ALA	C-N-CA	7.17	129.88	120.28
1	9a	82	ARG	NE-CZ-NH2	-7.17	112.75	119.20
1	9d	195	ASN	O-C-N	-7.17	113.49	121.66
1	9S	36	VAL	N-CA-C	7.17	117.93	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Y	175	GLU	O-C-N	-7.17	114.66	123.04
1	as	165	VAL	N-CA-C	7.17	117.93	110.62
1	aH	57	ASN	CA-C-O	7.17	127.32	119.15
1	aI	173	ARG	CA-C-O	7.17	128.35	120.82
1	aW	80	TRP	CA-C-N	7.17	130.22	120.54
1	aW	80	TRP	C-N-CA	7.17	130.22	120.54
1	b2	134	ILE	N-CA-C	7.17	117.93	110.62
1	bc	87	HIS	CA-CB-CG	7.17	120.97	113.80
1	bj	62	HIS	CB-CG-CD2	-7.17	121.88	131.20
1	bQ	115	ILE	N-CA-C	-7.17	103.19	111.00
1	cR	15	ILE	N-CA-C	7.17	119.04	109.37
1	d6	70	LYS	N-CA-C	7.17	119.09	111.28
1	dK	17	PRO	CA-C-N	7.17	130.22	120.54
1	dK	17	PRO	C-N-CA	7.17	130.22	120.54
1	er	115	ILE	N-CA-C	7.17	117.27	110.53
1	ev	165	VAL	CB-CA-C	-7.17	101.05	112.16
1	eI	126	VAL	CA-C-N	7.17	127.88	120.00
1	eI	126	VAL	C-N-CA	7.17	127.88	120.00
1	f9	54	THR	CA-C-O	7.17	128.57	120.90
1	ft	75	GLU	CA-C-O	-7.17	113.30	120.82
1	fW	120	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	N	212	GLU	CA-C-N	7.17	129.76	120.44
1	N	212	GLU	C-N-CA	7.17	129.76	120.44
1	gG	64	ALA	N-CA-C	7.17	119.09	111.28
1	hn	16	SER	CA-C-O	-7.17	113.38	119.76
1	i4	128	GLU	CB-CG-CD	7.17	124.78	112.60
1	ig	21	ASN	CA-C-N	7.17	130.21	120.54
1	ig	21	ASN	C-N-CA	7.17	130.21	120.54
1	2A	102	SER	CA-C-O	7.17	128.15	120.55
1	30	160	PRO	CA-C-N	7.17	129.88	120.28
1	30	160	PRO	C-N-CA	7.17	129.88	120.28
1	32	161	PHE	CA-CB-CG	7.17	120.97	113.80
1	45	153	ILE	N-CA-CB	7.17	119.01	112.06
1	4k	229	ARG	NH1-CZ-NH2	-7.17	109.98	119.30
1	4s	98	GLU	CA-C-N	7.17	127.14	119.76
1	4s	98	GLU	C-N-CA	7.17	127.14	119.76
1	5q	21	ASN	CA-C-N	7.17	129.88	120.28
1	5q	21	ASN	C-N-CA	7.17	129.88	120.28
1	67	84	HIS	CA-C-N	7.17	128.80	119.84
1	67	84	HIS	C-N-CA	7.17	128.80	119.84
1	6a	13	GLN	CA-C-N	7.17	131.00	120.90
1	6a	13	GLN	C-N-CA	7.17	131.00	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6q	73	ILE	N-CA-C	7.17	117.93	110.62
1	75	139	ASN	CB-CA-C	7.17	122.13	110.88
1	96	3	VAL	CA-C-N	7.17	132.81	122.35
1	96	3	VAL	C-N-CA	7.17	132.81	122.35
1	9i	119	THR	N-CA-C	-7.17	104.91	112.93
1	9x	178	SER	N-CA-C	7.17	119.82	110.43
1	aT	87	HIS	N-CA-CB	7.17	120.49	110.17
1	b9	189	LEU	N-CA-C	7.17	120.92	111.75
1	bv	24	VAL	O-C-N	-7.17	114.89	121.91
1	bY	122	PRO	CA-C-N	7.17	127.21	119.90
1	bY	122	PRO	C-N-CA	7.17	127.21	119.90
1	bY	165	VAL	N-CA-C	7.17	117.93	110.62
1	cv	69	LEU	N-CA-C	7.17	119.71	111.11
1	dq	185	MET	CA-C-N	7.17	129.75	120.44
1	dq	185	MET	C-N-CA	7.17	129.75	120.44
1	eb	139	ASN	O-C-N	-7.17	114.53	122.12
1	eV	54	THR	CA-C-N	7.17	130.47	120.29
1	eV	54	THR	C-N-CA	7.17	130.47	120.29
1	eZ	138	LEU	CA-C-N	7.17	130.21	120.54
1	eZ	138	LEU	C-N-CA	7.17	130.21	120.54
1	f3	203	LYS	N-CA-C	7.17	120.00	111.33
1	1y	67	GLN	OE1-CD-NE2	-7.17	115.44	122.60
1	1y	226	HIS	CE1-NE2-CD2	-7.17	101.83	109.00
1	fS	48	THR	CA-CB-OG1	7.17	120.35	109.60
1	3	165	VAL	N-CA-C	7.17	117.30	110.42
1	gc	81	ASP	CA-C-N	7.16	129.75	120.44
1	gc	81	ASP	C-N-CA	7.16	129.75	120.44
1	ge	122	PRO	CA-C-N	7.16	128.79	119.84
1	ge	122	PRO	C-N-CA	7.16	128.79	119.84
1	gF	72	THR	CA-C-N	7.16	130.59	120.42
1	gF	72	THR	C-N-CA	7.16	130.59	120.42
1	gQ	12	HIS	ND1-CE1-NE2	7.16	115.56	108.40
1	gR	128	GLU	CA-C-N	7.16	129.65	120.70
1	gR	128	GLU	C-N-CA	7.16	129.65	120.70
1	i5	50	GLN	CA-C-N	7.16	129.88	120.28
1	i5	50	GLN	C-N-CA	7.16	129.88	120.28
1	iu	110	THR	CA-CB-OG1	7.16	120.35	109.60
1	iP	150	ILE	N-CA-C	7.16	118.79	110.62
1	k5	157	PRO	N-CA-CB	7.16	111.11	103.52
1	km	39	MET	CG-SD-CE	-7.16	85.14	100.90
1	l0	162	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	l8	64	ALA	CA-C-N	7.16	129.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	64	ALA	C-N-CA	7.16	129.88	120.28
1	2E	141	ILE	N-CA-C	7.16	117.95	110.72
1	2I	230	VAL	CA-C-O	-7.16	114.18	122.13
1	43	147	PRO	N-CA-CB	7.16	110.77	103.25
1	49	39	MET	CA-C-O	7.16	128.14	120.55
1	4a	212	GLU	CB-CG-CD	-7.16	100.42	112.60
1	4g	206	GLY	CA-C-N	7.16	127.59	119.92
1	4g	206	GLY	C-N-CA	7.16	127.59	119.92
1	4j	153	ILE	N-CA-CB	7.16	123.05	111.23
1	4l	33	SER	N-CA-C	7.16	117.84	109.60
1	4u	188	THR	CA-C-N	7.16	129.75	120.44
1	4u	188	THR	C-N-CA	7.16	129.75	120.44
1	50	216	THR	N-CA-C	-7.16	102.57	113.89
1	59	22	ALA	N-CA-C	7.16	119.09	111.28
1	5b	135	ILE	N-CA-C	7.16	117.93	110.62
1	5t	109	SER	CA-C-O	7.16	128.44	120.70
1	5v	139	ASN	CA-C-O	7.16	128.57	120.90
1	5P	19	THR	CA-C-N	7.16	129.88	120.28
1	5P	19	THR	C-N-CA	7.16	129.88	120.28
1	6B	195	ASN	CA-CB-CG	-7.16	105.44	112.60
1	6O	171	THR	O-C-N	-7.16	114.53	122.12
1	74	67	GLN	CA-C-N	7.16	129.75	120.44
1	74	67	GLN	C-N-CA	7.16	129.75	120.44
1	7p	164	TYR	CA-C-O	7.16	128.14	120.55
1	7V	113	GLU	CA-C-O	7.16	128.14	120.55
1	8w	40	PHE	CA-CB-CG	-7.16	106.64	113.80
1	96	62	HIS	CB-CG-ND1	-7.16	111.95	122.70
1	99	139	ASN	O-C-N	-7.16	114.53	122.12
1	9h	26	VAL	O-C-N	-7.16	114.92	121.87
1	9y	130	TYR	N-CA-C	7.16	119.17	111.36
1	9J	83	LEU	O-C-N	-7.16	114.53	122.12
1	9N	185	MET	CA-C-N	7.16	129.75	120.44
1	9N	185	MET	C-N-CA	7.16	129.75	120.44
1	a0	118	MET	N-CA-C	7.16	119.09	111.28
1	aI	39	MET	O-C-N	-7.16	114.53	122.12
1	aQ	36	VAL	O-C-N	-7.16	114.92	121.87
1	bf	17	PRO	CA-C-N	7.16	129.88	120.28
1	bf	17	PRO	C-N-CA	7.16	129.88	120.28
1	1a	153	ILE	O-C-N	-7.16	114.86	122.81
1	dq	57	ASN	O-C-N	-7.16	112.90	122.43
1	dB	12	HIS	CA-C-N	7.16	133.32	122.93
1	dB	12	HIS	C-N-CA	7.16	133.32	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dV	85	PRO	CA-C-N	7.16	130.16	120.63
1	dV	85	PRO	C-N-CA	7.16	130.16	120.63
1	eb	189	LEU	CA-C-N	7.16	130.21	120.54
1	eb	189	LEU	C-N-CA	7.16	130.21	120.54
1	es	133	TRP	CA-C-N	7.16	130.28	120.46
1	es	133	TRP	C-N-CA	7.16	130.28	120.46
1	eT	82	ARG	NH1-CZ-NH2	-7.16	109.99	119.30
1	fd	62	HIS	CA-CB-CG	-7.16	106.64	113.80
1	ft	31	ALA	CA-C-O	7.16	128.19	119.38
1	fw	142	VAL	CB-CA-C	7.16	122.11	112.22
1	fR	82	ARG	NE-CZ-NH2	7.16	125.65	119.20
1	G	166	ASP	O-C-N	-7.16	114.53	122.12
1	gk	75	GLU	N-CA-C	7.16	119.09	111.28
1	gX	71	GLU	O-C-N	-7.16	114.53	122.12
1	hS	28	GLU	N-CA-C	7.16	119.95	111.71
1	io	226	HIS	N-CA-C	7.16	120.09	110.35
1	iL	45	GLU	CA-C-O	-7.16	112.89	120.63
1	1S	40	PHE	CB-CG-CD1	-7.16	108.53	120.70
1	jh	114	GLN	O-C-N	-7.16	114.69	122.07
1	k7	220	GLY	N-CA-C	7.16	120.81	112.50
1	lf	74	ASN	OD1-CG-ND2	-7.16	115.44	122.60
1	lA	73	ILE	N-CA-CB	7.16	118.93	110.55
1	lJ	184	TRP	N-CA-CB	-7.16	99.59	110.12
1	2y	106	GLY	CA-C-O	7.16	126.96	119.01
1	2O	23	TRP	CB-CG-CD1	-7.16	116.16	126.90
1	3q	71	GLU	CA-C-N	7.16	129.88	120.28
1	3q	71	GLU	C-N-CA	7.16	129.88	120.28
1	4z	36	VAL	CA-C-N	7.16	127.31	120.43
1	4z	36	VAL	C-N-CA	7.16	127.31	120.43
1	5j	226	HIS	CA-C-O	-7.16	113.70	121.44
1	5L	82	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	66	138	LEU	CA-C-N	7.16	130.21	120.54
1	66	138	LEU	C-N-CA	7.16	130.21	120.54
1	6e	5	ASN	CA-CB-CG	7.16	119.76	112.60
1	6f	226	HIS	ND1-CE1-NE2	7.16	115.56	108.40
1	6j	146	SER	CA-C-N	7.16	127.19	119.89
1	6j	146	SER	C-N-CA	7.16	127.19	119.89
1	6r	24	VAL	N-CA-C	-7.16	103.19	111.00
1	9f	102	SER	N-CA-C	7.16	119.09	111.28
1	ay	12	HIS	O-C-N	-7.16	114.96	123.27
1	cJ	85	PRO	O-C-N	-7.16	115.17	122.98
1	dc	92	GLU	CA-C-O	-7.16	112.56	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e7	166	ASP	CA-C-O	-7.16	113.19	121.07
1	eb	92	GLU	CA-C-N	7.16	127.59	119.93
1	eb	92	GLU	C-N-CA	7.16	127.59	119.93
1	f1	2	ILE	N-CA-C	7.16	119.43	109.55
1	fm	173	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	fG	82	ARG	NH1-CZ-NH2	-7.16	109.99	119.30
1	j	189	LEU	CA-C-N	7.16	129.75	120.44
1	j	189	LEU	C-N-CA	7.16	129.75	120.44
1	gp	73	ILE	N-CA-C	7.16	117.88	110.36
1	h6	219	GLN	CA-C-N	7.16	127.75	119.94
1	h6	219	GLN	C-N-CA	7.16	127.75	119.94
1	hs	53	ASN	O-C-N	-7.16	114.53	122.12
1	iG	78	ALA	CA-C-O	-7.16	112.83	120.42
1	jc	155	GLN	OE1-CD-NE2	-7.16	115.44	122.60
1	jg	63	GLN	N-CA-CB	7.16	120.76	110.16
1	jC	177	ALA	N-CA-C	7.16	119.55	110.24
1	jI	71	GLU	O-C-N	-7.16	114.53	122.12
1	21	132	ARG	NH1-CZ-NH2	-7.16	109.99	119.30
1	kO	227	LYS	N-CA-C	7.16	120.12	109.59
1	kT	47	ALA	CA-C-O	7.16	129.18	121.16
1	li	122	PRO	CA-C-N	7.16	127.42	119.90
1	li	122	PRO	C-N-CA	7.16	127.42	119.90
1	lo	45	GLU	O-C-N	-7.16	114.07	122.95
1	lN	63	GLN	N-CA-C	7.16	119.09	111.28
1	2h	82	ARG	N-CA-C	7.16	120.13	111.82
1	2q	203	LYS	N-CA-C	7.16	119.08	111.28
1	2w	117	TRP	O-C-N	-7.16	114.53	122.12
1	3i	18	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	4J	206	GLY	CA-C-N	7.16	128.79	119.84
1	4J	206	GLY	C-N-CA	7.16	128.79	119.84
1	50	19	THR	N-CA-C	7.16	118.73	111.07
1	5a	147	PRO	N-CA-CB	-7.16	95.73	103.25
1	5w	143	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	7a	139	ASN	CA-CB-CG	7.16	119.76	112.60
1	7a	197	ASP	O-C-N	-7.16	114.53	122.12
1	7g	154	ARG	CA-C-N	7.16	131.66	121.42
1	7g	154	ARG	C-N-CA	7.16	131.66	121.42
1	8G	37	ILE	CA-C-O	-7.16	113.89	118.69
1	9Q	39	MET	CA-C-O	7.16	128.14	120.55
1	aa	70	LYS	N-CA-C	7.16	118.73	111.07
1	aU	84	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
1	ba	84	HIS	CB-CG-CD2	7.16	140.51	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	229	ARG	NH1-CZ-NH2	-7.16	109.99	119.30
1	c5	164	TYR	CB-CA-C	7.16	122.12	110.88
1	cZ	156	GLY	CA-C-N	7.16	126.78	119.19
1	cZ	156	GLY	C-N-CA	7.16	126.78	119.19
1	eH	55	MET	CA-C-N	7.16	129.75	120.44
1	eH	55	MET	C-N-CA	7.16	129.75	120.44
1	eK	195	ASN	OD1-CG-ND2	-7.16	115.44	122.60
1	eL	166	ASP	CA-CB-CG	7.16	119.76	112.60
1	1w	10	MET	CA-C-N	7.16	132.07	122.90
1	1w	10	MET	C-N-CA	7.16	132.07	122.90
1	fq	79	GLU	O-C-N	7.16	129.71	122.12
1	fz	133	TRP	CA-C-O	7.16	128.24	119.79
1	fz	183	ASN	CA-CB-CG	-7.16	105.44	112.60
1	fX	219	GLN	N-CA-C	7.16	119.08	111.28
1	r	154	ARG	CB-CG-CD	7.16	127.77	111.30
1	r	187	GLU	N-CA-C	7.16	118.73	111.07
1	y	58	THR	O-C-N	-7.16	113.73	122.25
1	M	194	ALA	O-C-N	-7.16	114.41	122.86
1	ga	50	GLN	N-CA-C	7.16	119.99	111.33
1	gk	80	TRP	CD2-CE2-CZ2	-7.16	115.24	122.40
1	gY	157	PRO	N-CA-CB	7.16	110.77	103.25
1	h0	61	GLY	CA-C-N	7.16	132.31	122.07
1	h0	61	GLY	C-N-CA	7.16	132.31	122.07
1	hM	165	VAL	CA-C-N	7.16	130.20	120.54
1	hM	165	VAL	C-N-CA	7.16	130.20	120.54
1	hP	70	LYS	N-CA-CB	7.16	120.61	109.94
1	1M	96	MET	O-C-N	-7.16	114.67	123.04
1	i0	84	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
1	1N	167	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	iC	211	LEU	N-CA-C	7.16	119.94	111.71
1	iE	141	ILE	CA-C-N	7.16	129.58	120.56
1	iE	141	ILE	C-N-CA	7.16	129.58	120.56
1	iM	229	ARG	NE-CZ-NH2	-7.16	112.76	119.20
1	jh	165	VAL	N-CA-C	7.16	117.88	110.36
1	jj	111	LEU	CA-C-N	7.16	129.75	120.44
1	jj	111	LEU	C-N-CA	7.16	129.75	120.44
1	jm	229	ARG	CA-C-N	7.16	130.37	120.49
1	jm	229	ARG	C-N-CA	7.16	130.37	120.49
1	jp	18	ARG	NE-CZ-NH2	-7.16	112.76	119.20
1	jO	11	VAL	O-C-N	-7.16	114.27	122.72
1	ky	60	GLY	CA-C-N	7.16	128.24	120.44
1	ky	60	GLY	C-N-CA	7.16	128.24	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	120	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
1	lc	22	ALA	CA-C-N	7.16	130.46	120.29
1	lc	22	ALA	C-N-CA	7.16	130.46	120.29
1	lq	84	HIS	CG-CD2-NE2	7.16	114.36	107.20
1	2S	230	VAL	O-C-N	-7.16	115.84	123.14
1	35	13	GLN	CA-C-N	7.16	130.97	120.95
1	35	13	GLN	C-N-CA	7.16	130.97	120.95
1	3r	196	PRO	CA-C-N	7.16	130.74	120.79
1	3r	196	PRO	C-N-CA	7.16	130.74	120.79
1	4Q	154	ARG	NE-CZ-NH2	7.16	125.64	119.20
1	51	200	THR	N-CA-C	7.16	119.16	111.36
1	5a	133	TRP	CA-C-N	7.16	129.72	120.56
1	5a	133	TRP	C-N-CA	7.16	129.72	120.56
1	5m	198	CYS	N-CA-C	7.16	119.70	111.11
1	5C	100	ARG	CA-C-O	-7.16	113.51	121.89
1	6f	115	ILE	CA-C-N	7.16	129.36	120.34
1	6f	115	ILE	C-N-CA	7.16	129.36	120.34
1	6o	155	GLN	OE1-CD-NE2	-7.16	115.44	122.60
1	7c	55	MET	O-C-N	-7.16	114.70	122.07
1	7c	165	VAL	O-C-N	-7.16	114.45	121.90
1	7y	62	HIS	N-CA-C	7.16	121.40	111.74
1	7y	166	ASP	N-CA-CB	-7.16	99.60	110.12
1	7H	32	PHE	CA-CB-CG	-7.16	106.64	113.80
1	7Z	135	ILE	O-C-N	-7.16	114.46	121.83
1	8o	125	PRO	CA-C-N	7.16	129.84	120.60
1	8o	125	PRO	C-N-CA	7.16	129.84	120.60
1	8p	51	ASP	CA-CB-CG	-7.16	105.44	112.60
1	8C	37	ILE	O-C-N	-7.16	115.84	120.42
1	8C	53	ASN	N-CA-C	7.16	119.08	111.28
1	8O	139	ASN	CA-CB-CG	-7.16	105.44	112.60
1	8R	36	VAL	N-CA-C	7.16	117.88	110.36
1	9H	120	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
1	9S	163	ASP	N-CA-C	7.16	119.08	111.28
1	an	71	GLU	CA-C-N	7.16	129.75	120.44
1	an	71	GLU	C-N-CA	7.16	129.75	120.44
1	cd	118	MET	CG-SD-CE	-7.16	85.15	100.90
1	cT	181	VAL	N-CA-CB	7.16	118.92	110.55
1	dj	125	PRO	CA-C-N	7.16	129.58	120.56
1	dj	125	PRO	C-N-CA	7.16	129.58	120.56
1	ej	11	VAL	O-C-N	-7.16	115.53	123.26
1	1q	193	ASN	OD1-CG-ND2	-7.16	115.44	122.60
1	eM	178	SER	N-CA-C	7.16	120.09	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eY	133	TRP	N-CA-C	7.16	119.16	111.36
1	fj	105	ALA	CA-C-O	7.16	128.09	119.43
1	fM	117	TRP	CA-C-N	7.16	130.59	120.28
1	fM	117	TRP	C-N-CA	7.16	130.59	120.28
1	fN	16	SER	CA-C-N	7.16	126.79	119.56
1	fN	16	SER	C-N-CA	7.16	126.79	119.56
1	1z	130	TYR	CA-C-O	7.16	128.34	120.82
1	fP	20	LEU	CA-C-N	7.16	130.20	120.54
1	fP	20	LEU	C-N-CA	7.16	130.20	120.54
1	u	173	ARG	N-CA-C	7.16	119.08	111.28
1	y	79	GLU	CA-C-N	7.16	129.87	120.28
1	y	79	GLU	C-N-CA	7.16	129.87	120.28
1	E	8	GLY	N-CA-C	7.16	120.20	112.33
1	G	128	GLU	N-CA-C	7.16	119.08	111.28
1	gj	152	ASP	O-C-N	-7.16	113.39	122.34
1	gn	59	VAL	N-CA-C	7.16	118.29	108.84
1	gG	86	VAL	CB-CA-C	7.16	120.57	110.84
1	ha	214	MET	N-CA-CB	7.16	120.64	110.12
1	hk	54	THR	O-C-N	-7.16	114.70	122.07
1	iA	165	VAL	CA-CB-CG1	7.16	122.57	110.40
1	jB	165	VAL	N-CA-C	7.16	117.92	110.62
1	jT	100	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	li	148	THR	CA-C-N	7.16	130.87	120.71
1	li	148	THR	C-N-CA	7.16	130.87	120.71
1	lR	193	ASN	O-C-N	-7.16	113.16	122.39
1	2b	120	HIS	CA-C-O	-7.16	113.57	121.87
1	30	118	MET	CG-SD-CE	-7.16	85.16	100.90
1	32	95	GLN	OE1-CD-NE2	-7.16	115.44	122.60
1	3j	160	PRO	N-CA-CB	7.16	110.77	103.25
1	3j	177	ALA	N-CA-C	7.16	120.59	110.50
1	42	132	ARG	NE-CZ-NH2	-7.16	112.76	119.20
1	4r	162	ARG	N-CA-C	7.16	119.99	111.33
1	56	183	ASN	CA-C-N	7.16	129.74	120.44
1	56	183	ASN	C-N-CA	7.16	129.74	120.44
1	5o	18	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	6n	119	THR	CA-C-O	7.16	128.34	120.82
1	8c	118	MET	O-C-N	-7.16	114.53	122.12
1	8H	183	ASN	O-C-N	-7.16	114.53	122.12
1	97	188	THR	CA-C-N	7.16	129.87	120.28
1	97	188	THR	C-N-CA	7.16	129.87	120.28
1	9F	37	ILE	O-C-N	-7.16	115.84	120.42
1	aR	48	THR	CA-C-N	7.16	127.48	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aR	48	THR	C-N-CA	7.16	127.48	119.32
1	bN	125	PRO	CA-C-N	7.16	129.83	120.60
1	bN	125	PRO	C-N-CA	7.16	129.83	120.60
1	bY	83	LEU	N-CA-C	7.16	119.08	111.28
1	c4	181	VAL	N-CA-C	7.16	117.95	110.72
1	cp	84	HIS	O-C-N	-7.16	113.41	121.43
1	dA	153	ILE	N-CA-CB	7.16	118.33	110.53
1	dP	194	ALA	CA-C-N	7.16	130.34	120.39
1	dP	194	ALA	C-N-CA	7.16	130.34	120.39
1	dR	84	HIS	CG-CD2-NE2	7.16	114.36	107.20
1	ey	100	ARG	CA-C-N	7.16	127.88	119.94
1	ey	100	ARG	C-N-CA	7.16	127.88	119.94
1	fA	12	HIS	CE1-NE2-CD2	-7.16	101.84	109.00
1	gh	8	GLY	CA-C-N	7.16	132.28	122.19
1	gh	8	GLY	C-N-CA	7.16	132.28	122.19
1	gk	133	TRP	CA-C-N	7.16	129.64	120.70
1	gk	133	TRP	C-N-CA	7.16	129.64	120.70
1	go	21	ASN	CA-CB-CG	-7.16	105.44	112.60
1	1F	70	LYS	N-CA-C	7.16	119.08	111.28
1	gW	184	TRP	O-C-N	-7.16	113.99	122.15
1	1H	139	ASN	CA-C-O	-7.16	113.31	120.82
1	hl	42	ALA	CA-C-N	7.16	130.58	120.28
1	hl	42	ALA	C-N-CA	7.16	130.58	120.28
1	hu	179	GLN	CA-C-N	7.16	129.74	120.44
1	hu	179	GLN	C-N-CA	7.16	129.74	120.44
1	hD	179	GLN	CA-C-N	7.16	129.87	120.28
1	hD	179	GLN	C-N-CA	7.16	129.87	120.28
1	i7	191	VAL	N-CA-CB	7.16	121.59	112.22
1	iw	170	LYS	O-C-N	-7.16	114.53	122.12
1	iz	100	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	iT	199	LYS	CA-C-N	7.16	129.74	120.44
1	iT	199	LYS	C-N-CA	7.16	129.74	120.44
1	jj	37	ILE	CA-C-O	-7.16	110.36	119.95
1	jL	11	VAL	O-C-N	-7.16	115.52	123.03
1	jO	43	LEU	N-CA-C	7.16	119.99	111.33
1	1Z	145	TYR	N-CA-C	7.16	122.19	113.17
1	k6	53	ASN	N-CA-CB	-7.16	99.57	110.16
1	kn	126	VAL	N-CA-C	7.16	117.92	110.62
1	kF	134	ILE	O-C-N	-7.16	114.90	121.91
1	kT	75	GLU	N-CA-C	7.16	118.73	111.07
1	l9	187	GLU	N-CA-C	7.16	118.73	111.07
1	lt	112	GLN	N-CA-C	7.16	119.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lw	28	GLU	N-CA-C	7.16	119.16	111.36
1	lA	70	LYS	N-CA-C	7.16	119.08	111.28
1	lP	164	TYR	CA-C-N	7.16	130.58	120.42
1	lP	164	TYR	C-N-CA	7.16	130.58	120.42
1	2X	96	MET	N-CA-C	7.16	120.08	110.35
1	3f	37	ILE	N-CA-C	7.16	120.94	112.35
1	3P	139	ASN	CA-C-N	7.16	129.74	120.44
1	3P	139	ASN	C-N-CA	7.16	129.74	120.44
1	3V	117	TRP	CA-C-N	7.16	130.58	120.28
1	3V	117	TRP	C-N-CA	7.16	130.58	120.28
1	53	62	HIS	CA-CB-CG	7.16	120.95	113.80
1	53	131	LYS	CA-C-N	7.16	129.87	120.28
1	53	131	LYS	C-N-CA	7.16	129.87	120.28
1	5p	229	ARG	CD-NE-CZ	-7.16	114.38	124.40
1	6p	196	PRO	N-CD-CG	7.16	113.93	103.20
1	6v	167	ARG	O-C-N	-7.16	114.65	122.09
1	6T	102	SER	CA-C-N	7.16	129.87	120.28
1	6T	102	SER	C-N-CA	7.16	129.87	120.28
1	7e	54	THR	CA-C-N	7.16	130.20	120.54
1	7e	54	THR	C-N-CA	7.16	130.20	120.54
1	7x	54	THR	CA-C-N	7.16	130.45	120.29
1	7x	54	THR	C-N-CA	7.16	130.45	120.29
1	7H	92	GLU	CB-CA-C	7.16	117.63	110.33
1	7M	203	LYS	CA-C-N	7.16	129.74	120.44
1	7M	203	LYS	C-N-CA	7.16	129.74	120.44
1	82	70	LYS	O-C-N	-7.16	114.54	122.12
1	8c	100	ARG	NE-CZ-NH2	-7.16	112.76	119.20
1	8G	13	GLN	CA-C-N	7.16	131.56	120.75
1	8G	13	GLN	C-N-CA	7.16	131.56	120.75
1	8Z	224	PRO	N-CA-C	7.16	122.46	111.15
1	9K	62	HIS	ND1-CG-CD2	7.16	113.25	106.10
1	9O	73	ILE	N-CA-C	7.16	117.87	110.36
1	a2	161	PHE	CA-CB-CG	7.16	120.95	113.80
1	av	21	ASN	CA-CB-CG	7.16	119.75	112.60
1	aO	17	PRO	N-CA-C	-7.16	103.58	113.53
1	b3	174	ALA	O-C-N	-7.16	113.76	122.20
1	18	80	TRP	CA-C-N	7.16	130.45	120.29
1	18	80	TRP	C-N-CA	7.16	130.45	120.29
1	cq	42	ALA	N-CA-C	7.16	119.08	111.28
1	1k	195	ASN	CA-C-N	7.16	127.48	119.32
1	1k	195	ASN	C-N-CA	7.16	127.48	119.32
1	dE	226	HIS	CE1-NE2-CD2	-7.16	101.84	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dW	192	GLN	OE1-CD-NE2	-7.16	115.44	122.60
1	ee	146	SER	N-CA-C	7.16	121.24	109.79
1	fm	8	GLY	O-C-N	-7.16	115.97	122.77
1	fA	18	ARG	NE-CZ-NH1	7.16	128.66	121.50
1	fN	141	ILE	N-CA-C	7.16	117.29	110.42
1	g7	13	GLN	CA-C-O	7.16	128.76	120.89
1	n	88	ALA	N-CA-C	7.16	120.08	110.35
1	t	197	ASP	CA-C-O	7.16	128.23	119.79
1	W	161	PHE	N-CA-CB	-7.16	99.57	110.16
1	gC	21	ASN	CA-CB-CG	7.15	119.75	112.60
1	ht	166	ASP	N-CA-CB	-7.15	99.64	110.01
1	1R	208	ALA	N-CA-C	7.15	121.61	113.02
1	jg	62	HIS	CA-CB-CG	-7.15	106.65	113.80
1	jn	12	HIS	CA-C-O	7.15	129.00	120.99
1	42	6	LEU	CA-C-N	7.15	132.98	122.82
1	42	6	LEU	C-N-CA	7.15	132.98	122.82
1	4t	150	ILE	N-CA-C	7.15	118.78	110.62
1	5Q	118	MET	N-CA-C	7.15	119.16	111.36
1	6m	14	ALA	CA-C-N	7.15	130.36	120.49
1	6m	14	ALA	C-N-CA	7.15	130.36	120.49
1	7E	173	ARG	N-CA-C	7.15	121.27	112.54
1	8u	98	GLU	CA-C-N	7.15	126.91	119.76
1	8u	98	GLU	C-N-CA	7.15	126.91	119.76
1	8H	143	ARG	NE-CZ-NH1	7.15	128.65	121.50
1	a2	220	GLY	CA-C-O	7.15	128.17	120.30
1	a7	33	SER	CA-C-O	-7.15	113.56	120.64
1	15	76	GLU	CA-C-N	7.15	129.74	120.44
1	15	76	GLU	C-N-CA	7.15	129.74	120.44
1	bw	33	SER	CA-C-N	7.15	126.83	119.82
1	bw	33	SER	C-N-CA	7.15	126.83	119.82
1	19	32	PHE	CA-CB-CG	-7.15	106.65	113.80
1	bI	197	ASP	N-CA-C	7.15	118.72	111.07
1	cg	47	ALA	N-CA-C	7.15	120.33	110.24
1	cl	62	HIS	ND1-CE1-NE2	7.15	115.55	108.40
1	cN	19	THR	CA-C-O	7.15	128.00	120.42
1	eQ	87	HIS	CE1-NE2-CD2	-7.15	101.85	109.00
1	1v	132	ARG	NE-CZ-NH2	7.15	125.64	119.20
1	1	145	TYR	O-C-N	7.15	131.79	122.20
1	gc	173	ARG	NE-CZ-NH2	7.15	125.64	119.20
1	gh	81	ASP	N-CA-C	7.15	119.94	111.71
1	gj	226	HIS	CG-CD2-NE2	7.15	114.35	107.20
1	gR	155	GLN	N-CA-C	7.15	120.61	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	59	VAL	CB-CA-C	-7.15	102.65	112.02
1	ht	64	ALA	O-C-N	-7.15	114.00	122.15
1	hG	67	GLN	OE1-CD-NE2	-7.15	115.45	122.60
1	1O	149	SER	N-CA-CB	7.15	122.58	110.49
1	iL	225	GLY	CA-C-N	7.15	130.96	120.95
1	iL	225	GLY	C-N-CA	7.15	130.96	120.95
1	jE	157	PRO	CA-C-O	-7.15	108.83	119.34
1	jX	193	ASN	CA-C-O	7.15	127.72	119.35
1	k4	112	GLN	N-CA-C	7.15	119.08	111.28
1	kW	132	ARG	NE-CZ-NH2	-7.15	112.76	119.20
1	ll	182	LYS	CA-C-O	7.15	128.13	120.55
1	2M	116	GLY	N-CA-C	7.15	121.30	112.64
1	3C	53	ASN	CA-CB-CG	-7.15	105.45	112.60
1	4q	164	TYR	N-CA-C	7.15	119.69	111.11
1	4V	167	ARG	NE-CZ-NH2	7.15	125.64	119.20
1	55	5	ASN	N-CA-C	7.15	119.08	111.28
1	59	19	THR	CA-C-O	7.15	128.33	120.82
1	5o	71	GLU	CA-C-N	7.15	129.86	120.28
1	5o	71	GLU	C-N-CA	7.15	129.86	120.28
1	5o	72	THR	CA-C-N	7.15	129.57	120.56
1	5o	72	THR	C-N-CA	7.15	129.57	120.56
1	5q	21	ASN	O-C-N	-7.15	114.70	122.07
1	5x	143	ARG	CA-C-O	7.15	128.13	120.55
1	7x	24	VAL	N-CA-C	7.15	117.87	110.36
1	85	163	ASP	N-CA-CB	7.15	120.64	110.12
1	8j	55	MET	N-CA-C	7.15	119.08	111.28
1	8r	67	GLN	CA-C-N	7.15	129.86	120.28
1	8r	67	GLN	C-N-CA	7.15	129.86	120.28
1	90	67	GLN	N-CA-CB	7.15	120.60	109.94
1	Y	84	HIS	O-C-N	-7.15	113.25	120.83
1	b8	153	ILE	N-CA-CB	7.15	118.33	110.53
1	bo	170	LYS	O-C-N	-7.15	114.70	122.07
1	c0	226	HIS	CG-CD2-NE2	7.15	114.35	107.20
1	c6	18	ARG	N-CA-CB	7.15	120.64	110.12
1	cx	2	ILE	N-CA-CB	7.15	120.98	111.25
1	cU	153	ILE	O-C-N	-7.15	114.28	122.72
1	d3	9	GLN	CA-C-N	7.15	130.87	120.71
1	d3	9	GLN	C-N-CA	7.15	130.87	120.71
1	eA	84	HIS	CA-C-N	7.15	127.19	119.89
1	eA	84	HIS	C-N-CA	7.15	127.19	119.89
1	eA	201	ILE	N-CA-C	7.15	117.94	110.72
1	eH	100	ARG	NE-CZ-NH1	7.15	128.65	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eH	200	THR	CA-C-N	7.15	129.57	120.56
1	eH	200	THR	C-N-CA	7.15	129.57	120.56
1	fy	33	SER	CB-CA-C	7.15	119.66	110.22
1	fy	136	LEU	CA-C-N	7.15	127.88	119.94
1	fy	136	LEU	C-N-CA	7.15	127.88	119.94
1	g0	117	TRP	CA-C-O	-7.15	112.97	120.55
1	P	154	ARG	NE-CZ-NH1	7.15	128.65	121.50
1	V	15	ILE	O-C-N	-7.15	113.63	122.57
1	gr	7	GLN	CB-CA-C	7.15	121.36	111.63
1	gz	23	TRP	CB-CG-CD1	-7.15	116.18	126.90
1	gX	20	LEU	N-CA-CB	-7.15	99.20	110.28
1	gX	84	HIS	ND1-CE1-NE2	7.15	115.55	108.40
1	hn	85	PRO	N-CA-C	7.15	122.48	111.11
1	i2	62	HIS	CA-C-N	7.15	131.18	120.31
1	i2	62	HIS	C-N-CA	7.15	131.18	120.31
1	1N	121	ASN	O-C-N	-7.15	114.94	121.66
1	i6	102	SER	CA-C-N	7.15	129.86	120.28
1	i6	102	SER	C-N-CA	7.15	129.86	120.28
1	io	187	GLU	N-CA-C	7.15	118.72	111.07
1	jt	33	SER	N-CA-C	-7.15	101.78	108.22
1	k3	132	ARG	O-C-N	-7.15	114.70	122.07
1	kP	84	HIS	ND1-CE1-NE2	7.15	115.55	108.40
1	lK	39	MET	N-CA-C	7.15	118.72	111.07
1	lM	114	GLN	N-CA-C	7.15	119.07	111.28
1	2l	49	PRO	N-CA-CB	7.15	110.76	103.25
1	48	114	GLN	N-CA-C	7.15	119.08	111.28
1	4x	36	VAL	N-CA-CB	7.15	119.41	110.47
1	5z	193	ASN	OD1-CG-ND2	-7.15	115.45	122.60
1	5J	57	ASN	CA-CB-CG	7.15	119.75	112.60
1	5V	40	PHE	CA-C-O	7.15	128.93	120.92
1	6i	82	ARG	CA-C-N	7.15	129.86	120.28
1	6i	82	ARG	C-N-CA	7.15	129.86	120.28
1	85	9	GLN	N-CA-C	7.15	119.80	110.43
1	8W	197	ASP	CA-CB-CG	7.15	119.75	112.60
1	9h	164	TYR	CA-C-O	7.15	128.19	119.97
1	9Z	87	HIS	CE1-NE2-CD2	-7.15	101.85	109.00
1	11	88	ALA	CA-C-N	7.15	133.10	121.87
1	11	88	ALA	C-N-CA	7.15	133.10	121.87
1	al	12	HIS	CA-CB-CG	-7.15	106.65	113.80
1	aF	168	PHE	CA-CB-CG	7.15	120.95	113.80
1	aS	113	GLU	CA-C-N	7.15	129.86	120.28
1	aS	113	GLU	C-N-CA	7.15	129.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bC	128	GLU	N-CA-C	7.15	119.08	111.28
1	bD	146	SER	O-C-N	-7.15	115.09	121.31
1	cM	172	LEU	CA-C-N	7.15	130.19	120.54
1	cM	172	LEU	C-N-CA	7.15	130.19	120.54
1	cO	150	ILE	CA-C-N	7.15	129.86	120.28
1	cO	150	ILE	C-N-CA	7.15	129.86	120.28
1	cZ	70	LYS	N-CA-C	7.15	119.07	111.28
1	dJ	76	GLU	CA-C-N	7.15	129.86	120.28
1	dJ	76	GLU	C-N-CA	7.15	129.86	120.28
1	dQ	192	GLN	N-CA-C	7.15	121.27	112.54
1	eD	163	ASP	CA-CB-CG	-7.15	105.45	112.60
1	g1	229	ARG	O-C-N	-7.15	115.25	123.33
1	0	119	THR	CA-C-O	7.15	127.93	119.56
1	gY	119	THR	N-CA-CB	7.15	121.38	110.44
1	h5	15	ILE	CA-C-O	7.15	129.62	121.11
1	hf	119	THR	CA-C-N	7.15	135.19	121.54
1	hf	119	THR	C-N-CA	7.15	135.19	121.54
1	ia	21	ASN	OD1-CG-ND2	-7.15	115.45	122.60
1	iv	172	LEU	O-C-N	-7.15	114.54	122.12
1	iP	216	THR	CA-CB-OG1	7.15	120.32	109.60
1	ji	12	HIS	N-CA-C	7.15	120.60	110.23
1	1V	149	SER	CA-C-N	7.15	132.80	120.86
1	1V	149	SER	C-N-CA	7.15	132.80	120.86
1	kl	57	ASN	N-CA-C	7.15	119.93	111.71
1	ld	85	PRO	N-CA-CB	7.15	110.76	103.25
1	2w	118	MET	CA-C-N	7.15	129.86	120.28
1	2w	118	MET	C-N-CA	7.15	129.86	120.28
1	3d	155	GLN	OE1-CD-NE2	-7.15	115.45	122.60
1	49	216	THR	CA-C-N	7.15	130.86	120.71
1	49	216	THR	C-N-CA	7.15	130.86	120.71
1	4i	80	TRP	CA-C-N	7.15	130.16	120.44
1	4i	80	TRP	C-N-CA	7.15	130.16	120.44
1	4v	162	ARG	O-C-N	-7.15	114.54	122.12
1	61	141	ILE	N-CA-C	7.15	117.91	110.62
1	6k	189	LEU	CA-C-N	7.15	129.73	120.44
1	6k	189	LEU	C-N-CA	7.15	129.73	120.44
1	6o	226	HIS	CG-CD2-NE2	7.15	114.35	107.20
1	7d	53	ASN	CA-CB-CG	-7.15	105.45	112.60
1	8u	92	GLU	CA-C-O	-7.15	113.70	119.71
1	8W	1	PRO	CA-C-N	7.15	131.31	122.37
1	8W	1	PRO	C-N-CA	7.15	131.31	122.37
1	9j	219	GLN	OE1-CD-NE2	-7.15	115.45	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Q	39	MET	CA-C-N	7.15	129.73	120.44
1	9Q	39	MET	C-N-CA	7.15	129.73	120.44
1	aG	82	ARG	CG-CD-NE	-7.15	96.27	112.00
1	b3	39	MET	N-CA-C	7.15	119.93	111.71
1	dr	172	LEU	CA-C-O	7.15	128.33	120.82
1	dz	166	ASP	CA-C-O	7.15	128.13	120.55
1	1v	24	VAL	N-CA-C	-7.15	103.56	110.42
1	L	42	ALA	O-C-N	-7.15	114.59	122.03
1	gj	216	THR	CA-C-N	7.15	131.02	120.87
1	gj	216	THR	C-N-CA	7.15	131.02	120.87
1	gm	84	HIS	ND1-CE1-NE2	7.15	115.55	108.40
1	1D	162	ARG	CA-C-N	7.15	129.86	120.28
1	1D	162	ARG	C-N-CA	7.15	129.86	120.28
1	gU	24	VAL	O-C-N	-7.15	114.94	121.87
1	1H	84	HIS	CA-C-N	7.15	127.58	119.93
1	1H	84	HIS	C-N-CA	7.15	127.58	119.93
1	hC	229	ARG	CA-C-O	-7.15	112.77	120.92
1	hK	194	ALA	CA-C-O	-7.15	113.58	121.87
1	is	120	HIS	N-CA-C	-7.15	99.94	110.52
1	iT	82	ARG	CA-C-N	7.15	129.86	120.28
1	iT	82	ARG	C-N-CA	7.15	129.86	120.28
1	1T	54	THR	CA-C-N	7.15	129.86	120.28
1	1T	54	THR	C-N-CA	7.15	129.86	120.28
1	j9	42	ALA	CA-C-O	7.15	128.12	120.55
1	jE	221	VAL	O-C-N	-7.15	116.75	122.97
1	jW	119	THR	N-CA-CB	7.15	120.63	110.12
1	kn	97	ARG	NE-CZ-NH1	7.15	128.65	121.50
1	kv	165	VAL	N-CA-C	7.15	117.86	110.36
1	kz	1	PRO	N-CA-CB	-7.15	95.14	103.00
1	kS	135	ILE	CA-C-N	7.15	130.19	120.54
1	kS	135	ILE	C-N-CA	7.15	130.19	120.54
1	kU	136	LEU	CA-C-N	7.15	128.07	119.99
1	kU	136	LEU	C-N-CA	7.15	128.07	119.99
1	kX	141	ILE	O-C-N	-7.15	114.47	121.83
1	lo	193	ASN	CA-C-N	7.15	131.54	120.75
1	lo	193	ASN	C-N-CA	7.15	131.54	120.75
1	lQ	97	ARG	O-C-N	-7.15	114.54	123.12
1	2x	141	ILE	O-C-N	-7.15	114.91	121.91
1	3C	19	THR	CA-C-O	7.15	127.96	119.60
1	3F	179	GLN	CA-C-N	7.15	129.86	120.28
1	3F	179	GLN	C-N-CA	7.15	129.86	120.28
1	4N	26	VAL	N-CA-CB	7.15	120.26	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5a	178	SER	O-C-N	-7.15	114.43	122.86
1	5u	185	MET	CA-C-N	7.15	130.44	120.29
1	5u	185	MET	C-N-CA	7.15	130.44	120.29
1	5W	133	TRP	N-CA-C	7.15	120.11	111.82
1	65	120	HIS	CA-CB-CG	7.15	120.95	113.80
1	7E	190	LEU	N-CA-C	7.15	119.07	111.28
1	7L	72	THR	CA-C-O	7.15	128.13	120.55
1	82	12	HIS	N-CA-CB	7.15	120.85	110.06
1	84	40	PHE	CA-C-N	7.15	129.73	120.44
1	84	40	PHE	C-N-CA	7.15	129.73	120.44
1	8H	5	ASN	OD1-CG-ND2	-7.15	115.45	122.60
1	8P	204	ALA	N-CA-C	7.15	119.15	111.36
1	92	200	THR	N-CA-C	7.15	119.07	111.28
1	96	26	VAL	N-CA-C	-7.15	103.81	110.53
1	9g	15	ILE	O-C-N	-7.15	115.38	122.67
1	9k	18	ARG	NH1-CZ-NH2	-7.15	110.01	119.30
1	9n	136	LEU	N-CA-C	7.15	119.07	111.28
1	9M	41	SER	N-CA-C	7.15	119.74	111.02
1	a9	19	THR	CA-CB-CG2	7.15	122.65	110.50
1	ac	109	SER	CA-C-N	7.15	132.16	120.94
1	ac	109	SER	C-N-CA	7.15	132.16	120.94
1	aC	53	ASN	CA-C-N	7.15	129.73	120.44
1	aC	53	ASN	C-N-CA	7.15	129.73	120.44
1	aR	5	ASN	O-C-N	-7.15	114.87	123.16
1	b5	146	SER	O-C-N	-7.15	114.13	121.28
1	br	166	ASP	N-CA-C	7.15	118.72	111.07
1	bt	29	GLU	N-CA-C	7.15	121.26	112.54
1	bA	87	HIS	CE1-NE2-CD2	-7.15	101.85	109.00
1	bE	88	ALA	N-CA-C	7.15	119.53	110.24
1	bN	184	TRP	CB-CA-C	7.15	123.85	110.63
1	c5	195	ASN	N-CA-C	7.15	118.72	109.64
1	cg	11	VAL	O-C-N	-7.15	114.88	122.67
1	cS	110	THR	CA-CB-OG1	7.15	120.32	109.60
1	dn	172	LEU	CA-C-N	7.15	130.73	120.79
1	dn	172	LEU	C-N-CA	7.15	130.73	120.79
1	dp	186	THR	CB-CA-C	-7.15	99.66	110.88
1	dv	29	GLU	N-CA-CB	-7.15	101.39	110.90
1	dv	155	GLN	N-CA-C	7.15	120.58	110.50
1	dB	130	TYR	N-CA-C	7.15	119.07	111.28
1	dV	67	GLN	OE1-CD-NE2	-7.15	115.45	122.60
1	eb	208	ALA	N-CA-C	7.15	121.53	111.52
1	ey	180	GLU	N-CA-C	7.15	119.07	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	15	ILE	N-CA-C	7.15	118.58	108.93
1	eT	38	PRO	O-C-N	-7.15	112.62	122.27
1	eX	211	LEU	CA-C-N	7.15	129.86	120.28
1	eX	211	LEU	C-N-CA	7.15	129.86	120.28
1	f6	84	HIS	CA-C-O	-7.15	112.90	119.62
1	f7	28	GLU	N-CA-C	7.15	119.07	111.28
1	g3	189	LEU	CA-C-N	7.15	129.86	120.28
1	g3	189	LEU	C-N-CA	7.15	129.86	120.28
1	o	181	VAL	O-C-N	-7.15	114.91	121.91
1	t	114	GLN	CA-C-N	7.15	129.82	120.60
1	t	114	GLN	C-N-CA	7.15	129.82	120.60
1	4	13	GLN	O-C-N	-7.15	114.95	123.31
1	hC	5	ASN	CA-CB-CG	-7.15	105.45	112.60
1	iw	143	ARG	NE-CZ-NH2	7.15	125.63	119.20
1	iO	79	GLU	N-CA-C	7.15	119.07	111.28
1	1U	223	GLY	CA-C-N	7.15	127.58	119.93
1	1U	223	GLY	C-N-CA	7.15	127.58	119.93
1	1W	56	LEU	N-CA-C	7.15	119.98	111.33
1	jJ	101	GLY	N-CA-C	7.15	122.77	113.27
1	k8	124	ILE	O-C-N	-7.15	114.35	120.92
1	l6	123	PRO	CA-C-O	-7.15	113.58	121.23
1	2B	63	GLN	OE1-CD-NE2	-7.15	115.45	122.60
1	3N	97	ARG	NE-CZ-NH1	7.15	128.65	121.50
1	4c	54	THR	N-CA-CB	7.15	120.43	110.07
1	4M	163	ASP	CA-CB-CG	7.15	119.75	112.60
1	5P	130	TYR	O-C-N	-7.15	114.00	122.15
1	6y	44	SER	N-CA-CB	7.15	121.35	110.70
1	8m	200	THR	CA-CB-OG1	7.15	120.32	109.60
1	8x	136	LEU	CA-C-N	7.15	127.87	119.94
1	8x	136	LEU	C-N-CA	7.15	127.87	119.94
1	8P	84	HIS	ND1-CE1-NE2	7.15	115.55	108.40
1	10	87	HIS	CB-CG-CD2	-7.15	121.91	131.20
1	ab	35	GLU	CA-C-N	7.15	129.56	120.56
1	ab	35	GLU	C-N-CA	7.15	129.56	120.56
1	e1	179	GLN	O-C-N	-7.15	114.55	122.12
1	p	121	ASN	OD1-CG-ND2	-7.15	115.45	122.60
1	1C	128	GLU	CB-CG-CD	7.14	124.75	112.60
1	gX	139	ASN	OD1-CG-ND2	-7.14	115.46	122.60
1	1L	68	MET	N-CA-C	7.14	119.07	111.28
1	1L	107	THR	CA-C-O	7.14	128.12	120.55
1	hL	199	LYS	N-CA-C	7.14	119.07	111.28
1	i4	84	HIS	O-C-N	-7.14	114.14	121.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	je	166	ASP	CA-CB-CG	7.14	119.74	112.60
1	jo	172	LEU	CA-C-N	7.14	129.85	120.28
1	jo	172	LEU	C-N-CA	7.14	129.85	120.28
1	jz	75	GLU	N-CA-C	7.14	119.07	111.28
1	jE	75	GLU	CA-C-N	7.14	130.57	120.28
1	jE	75	GLU	C-N-CA	7.14	130.57	120.28
1	jO	224	PRO	CA-C-N	7.14	130.90	120.11
1	jO	224	PRO	C-N-CA	7.14	130.90	120.11
1	lm	2	ILE	O-C-N	-7.14	114.88	122.67
1	lA	117	TRP	CG-CD2-CE3	7.14	141.04	133.90
1	4n	229	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	4u	21	ASN	CA-C-N	7.14	130.16	120.44
1	4u	21	ASN	C-N-CA	7.14	130.16	120.44
1	4Q	188	THR	CA-CB-OG1	7.14	120.31	109.60
1	4W	213	GLU	O-C-N	-7.14	114.55	122.12
1	57	105	ALA	N-CA-C	7.14	120.86	112.72
1	5B	46	GLY	O-C-N	-7.14	115.18	121.97
1	6b	121	ASN	CA-C-O	-7.14	112.13	119.49
1	6u	150	ILE	O-C-N	-7.14	114.65	121.87
1	6u	183	ASN	CA-CB-CG	-7.14	105.45	112.60
1	78	192	GLN	N-CA-C	7.14	122.29	113.50
1	79	109	SER	N-CA-CB	7.14	122.17	110.17
1	7J	122	PRO	N-CA-CB	7.14	110.46	102.60
1	8g	24	VAL	N-CA-C	7.14	120.02	111.09
1	8x	148	THR	CA-CB-OG1	7.14	120.32	109.60
1	8S	160	PRO	CB-CA-C	-7.14	102.24	111.46
1	9o	166	ASP	N-CA-C	7.14	119.97	111.33
1	9p	47	ALA	N-CA-C	7.14	120.74	110.10
1	ae	12	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	ax	166	ASP	CA-C-N	7.14	129.85	120.28
1	ax	166	ASP	C-N-CA	7.14	129.85	120.28
1	aF	163	ASP	CA-C-O	7.14	128.12	120.55
1	bv	75	GLU	CA-C-O	7.14	128.12	120.55
1	bY	21	ASN	N-CA-C	-7.14	103.42	111.14
1	c1	159	GLU	O-C-N	-7.14	116.81	121.88
1	cu	86	VAL	N-CA-C	7.14	118.66	109.30
1	d8	40	PHE	CA-CB-CG	7.14	120.94	113.80
1	d9	163	ASP	CA-CB-CG	-7.14	105.45	112.60
1	en	29	GLU	N-CA-C	7.14	123.11	113.97
1	er	21	ASN	CA-C-N	7.14	129.73	120.44
1	er	21	ASN	C-N-CA	7.14	129.73	120.44
1	er	158	LYS	CA-C-N	7.14	130.87	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	er	158	LYS	C-N-CA	7.14	130.87	120.51
1	eM	97	ARG	O-C-N	-7.14	114.43	122.86
1	eX	36	VAL	CA-C-N	7.14	124.74	120.24
1	eX	36	VAL	C-N-CA	7.14	124.74	120.24
1	fg	26	VAL	CA-C-N	7.14	129.56	120.56
1	fg	26	VAL	C-N-CA	7.14	129.56	120.56
1	fW	135	ILE	N-CA-C	7.14	117.91	110.62
1	w	130	TYR	O-C-N	-7.14	114.55	122.12
1	gC	117	TRP	CB-CG-CD2	7.14	136.80	126.80
1	gD	101	GLY	CA-C-O	7.14	128.11	120.75
1	1H	23	TRP	CB-CG-CD1	7.14	137.61	126.90
1	hi	143	ARG	N-CA-C	7.14	119.06	111.28
1	hy	10	MET	CA-C-N	7.14	132.50	123.14
1	hy	10	MET	C-N-CA	7.14	132.50	123.14
1	hG	171	THR	CA-C-N	7.14	129.85	120.28
1	hG	171	THR	C-N-CA	7.14	129.85	120.28
1	iq	16	SER	CB-CA-C	7.14	119.67	109.38
1	j3	114	GLN	CG-CD-OE1	7.14	135.09	120.80
1	jl	164	TYR	O-C-N	-7.14	114.55	122.12
1	jy	9	GLN	OE1-CD-NE2	-7.14	115.46	122.60
1	jE	25	LYS	CA-C-O	-7.14	113.32	120.82
1	jP	58	THR	CA-C-N	7.14	131.41	122.48
1	jP	58	THR	C-N-CA	7.14	131.41	122.48
1	k4	41	SER	N-CA-C	7.14	119.06	111.28
1	kK	32	PHE	CA-CB-CG	-7.14	106.66	113.80
1	kW	226	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	29	42	ALA	CA-C-N	7.14	129.85	120.28
1	29	42	ALA	C-N-CA	7.14	129.85	120.28
1	lI	91	ILE	CA-C-O	-7.14	114.23	121.59
1	2y	13	GLN	OE1-CD-NE2	-7.14	115.46	122.60
1	31	110	THR	N-CA-CB	7.14	121.89	110.46
1	3N	229	ARG	CA-C-N	7.14	134.83	121.97
1	3N	229	ARG	C-N-CA	7.14	134.83	121.97
1	4t	21	ASN	OD1-CG-ND2	-7.14	115.46	122.60
1	4E	162	ARG	CA-C-N	7.14	130.43	120.29
1	4E	162	ARG	C-N-CA	7.14	130.43	120.29
1	4P	135	ILE	CA-C-N	7.14	129.72	120.44
1	4P	135	ILE	C-N-CA	7.14	129.72	120.44
1	5V	200	THR	N-CA-C	7.14	118.71	111.07
1	69	176	GLN	O-C-N	-7.14	113.68	122.82
1	6i	217	ALA	N-CA-C	7.14	120.67	109.96
1	6G	84	HIS	CA-C-N	7.14	128.77	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	84	HIS	C-N-CA	7.14	128.77	119.84
1	7V	92	GLU	O-C-N	-7.14	113.43	121.43
1	8O	195	ASN	CA-C-N	7.14	126.67	119.24
1	8O	195	ASN	C-N-CA	7.14	126.67	119.24
1	9m	103	ASP	CA-C-N	7.14	130.56	120.42
1	9m	103	ASP	C-N-CA	7.14	130.56	120.42
1	9r	73	ILE	O-C-N	-7.14	114.47	121.83
1	9B	152	ASP	CA-C-O	7.14	128.25	119.11
1	9E	204	ALA	N-CA-C	7.14	119.06	111.28
1	9G	111	LEU	N-CA-C	7.14	119.92	111.71
1	11	122	PRO	CA-C-N	7.14	128.77	119.84
1	11	122	PRO	C-N-CA	7.14	128.77	119.84
1	aN	223	GLY	N-CA-C	7.14	120.57	112.00
1	b8	107	THR	N-CA-CB	7.14	120.37	110.01
1	co	3	VAL	O-C-N	-7.14	115.85	123.14
1	cq	86	VAL	N-CA-C	7.14	118.27	108.84
1	1f	9	GLN	O-C-N	-7.14	115.05	123.41
1	cW	226	HIS	CA-CB-CG	7.14	120.94	113.80
1	d5	85	PRO	N-CA-C	7.14	122.90	111.26
1	dd	65	ALA	CA-C-N	7.14	129.85	120.28
1	dd	65	ALA	C-N-CA	7.14	129.85	120.28
1	1n	173	ARG	N-CA-C	7.14	119.07	111.28
1	eb	180	GLU	CA-C-N	7.14	129.56	120.56
1	eb	180	GLU	C-N-CA	7.14	129.56	120.56
1	ei	21	ASN	CA-CB-CG	7.14	119.74	112.60
1	ep	154	ARG	NE-CZ-NH2	7.14	125.63	119.20
1	eu	33	SER	CA-C-O	-7.14	113.47	120.26
1	1r	18	ARG	NE-CZ-NH2	7.14	125.63	119.20
1	1s	165	VAL	CA-C-N	7.14	129.85	120.28
1	1s	165	VAL	C-N-CA	7.14	129.85	120.28
1	eH	188	THR	CA-C-O	7.14	123.84	119.77
1	eJ	100	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	f0	190	LEU	CA-C-N	7.14	130.24	120.46
1	f0	190	LEU	C-N-CA	7.14	130.24	120.46
1	fU	5	ASN	CA-CB-CG	7.14	119.74	112.60
1	l	48	THR	N-CA-CB	7.14	117.86	109.72
1	O	185	MET	O-C-N	-7.14	114.55	122.12
1	gh	82	ARG	NE-CZ-NH2	-7.14	112.77	119.20
1	gX	126	VAL	CA-C-N	7.14	128.06	119.99
1	gX	126	VAL	C-N-CA	7.14	128.06	119.99
1	hr	79	GLU	CA-C-N	7.14	130.16	120.38
1	hr	79	GLU	C-N-CA	7.14	130.16	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	37	ILE	O-C-N	-7.14	115.85	120.42
1	iM	177	ALA	CA-C-N	7.14	131.32	120.82
1	iM	177	ALA	C-N-CA	7.14	131.32	120.82
1	ja	76	GLU	N-CA-C	7.14	119.14	111.36
1	jd	49	PRO	CA-C-N	7.14	129.85	120.28
1	jd	49	PRO	C-N-CA	7.14	129.85	120.28
1	jK	47	ALA	CA-C-O	7.14	129.04	121.19
1	21	69	LEU	CA-C-O	7.14	128.06	120.70
1	kM	182	LYS	N-CA-C	7.14	118.71	111.07
1	l1	47	ALA	N-CA-C	7.14	120.74	110.10
1	lz	82	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	3x	207	PRO	N-CA-C	-7.14	107.25	114.68
1	4D	27	VAL	CB-CA-C	7.14	121.11	111.97
1	5C	214	MET	N-CA-C	7.14	119.06	111.28
1	66	223	GLY	CA-C-N	7.14	128.77	119.84
1	66	223	GLY	C-N-CA	7.14	128.77	119.84
1	6e	143	ARG	CA-C-N	7.14	129.72	120.44
1	6e	143	ARG	C-N-CA	7.14	129.72	120.44
1	7l	43	LEU	O-C-N	-7.14	113.77	122.34
1	85	120	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	8x	76	GLU	N-CA-C	7.14	119.97	111.33
1	8M	58	THR	CA-C-N	7.14	134.82	121.97
1	8M	58	THR	C-N-CA	7.14	134.82	121.97
1	9i	41	SER	O-C-N	-7.14	114.55	122.12
1	a2	40	PHE	N-CA-C	7.14	121.23	112.23
1	aB	184	TRP	N-CA-C	7.14	118.71	111.07
1	bx	226	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	ch	69	LEU	O-C-N	-7.14	114.71	122.07
1	cN	13	GLN	OE1-CD-NE2	-7.14	115.46	122.60
1	db	86	VAL	N-CA-C	7.14	118.23	109.30
1	dK	118	MET	N-CA-C	-7.14	104.03	112.89
1	dX	144	MET	CG-SD-CE	-7.14	85.19	100.90
1	gd	119	THR	CA-C-O	7.14	128.59	119.95
1	gz	165	VAL	CA-C-N	7.14	130.18	120.54
1	gz	165	VAL	C-N-CA	7.14	130.18	120.54
1	gM	167	ARG	NE-CZ-NH2	7.14	125.62	119.20
1	gT	62	HIS	CB-CG-CD2	-7.14	121.92	131.20
1	h1	102	SER	N-CA-C	7.14	121.25	112.54
1	hy	154	ARG	O-C-N	-7.14	115.26	123.33
1	hT	47	ALA	N-CA-C	7.14	120.58	110.23
1	1U	89	GLY	O-C-N	-7.14	115.04	122.18
1	jm	201	ILE	CA-C-N	7.14	130.18	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	201	ILE	C-N-CA	7.14	130.18	120.54
1	k3	39	MET	O-C-N	-7.14	114.01	122.15
1	ke	229	ARG	CA-C-N	7.14	130.07	120.50
1	ke	229	ARG	C-N-CA	7.14	130.07	120.50
1	lb	69	LEU	N-CA-C	7.14	118.71	111.07
1	lk	120	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	ls	165	VAL	N-CA-C	7.14	117.86	110.36
1	lw	50	GLN	N-CA-C	7.14	119.06	111.28
1	lC	146	SER	N-CA-CB	7.14	122.51	109.73
1	lP	145	TYR	O-C-N	-7.14	113.09	122.59
1	2g	185	MET	CA-C-N	7.14	129.72	120.44
1	2g	185	MET	C-N-CA	7.14	129.72	120.44
1	2B	137	GLY	CA-C-O	-7.14	113.29	121.00
1	3B	33	SER	O-C-N	-7.14	112.57	121.64
1	3K	142	VAL	O-C-N	-7.14	113.73	121.80
1	3V	229	ARG	CA-C-O	7.14	128.25	120.32
1	46	16	SER	N-CA-C	7.14	119.76	109.48
1	4J	159	GLU	N-CA-CB	7.14	120.81	110.03
1	4T	51	ASP	CA-C-N	7.14	129.72	120.44
1	4T	51	ASP	C-N-CA	7.14	129.72	120.44
1	5F	20	LEU	O-C-N	-7.14	114.72	122.07
1	6o	183	ASN	CA-C-O	7.14	127.99	120.42
1	75	9	GLN	CB-CG-CD	7.14	124.74	112.60
1	7k	8	GLY	O-C-N	-7.14	115.10	122.60
1	8c	154	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	8j	185	MET	CG-SD-CE	-7.14	85.19	100.90
1	8Y	163	ASP	CA-C-N	7.14	130.18	120.54
1	8Y	163	ASP	C-N-CA	7.14	130.18	120.54
1	96	192	GLN	OE1-CD-NE2	-7.14	115.46	122.60
1	9c	26	VAL	CA-C-N	7.14	129.56	120.56
1	9c	26	VAL	C-N-CA	7.14	129.56	120.56
1	9R	5	ASN	N-CA-CB	-7.14	100.75	110.67
1	Z	195	ASN	CA-CB-CG	7.14	119.74	112.60
1	ac	182	LYS	CA-C-O	7.14	128.12	120.55
1	af	213	GLU	CA-C-O	7.14	128.32	120.82
1	aI	205	LEU	N-CA-CB	7.14	120.42	110.07
1	18	181	VAL	CA-C-N	7.14	129.85	120.28
1	18	181	VAL	C-N-CA	7.14	129.85	120.28
1	1a	210	THR	CA-CB-OG1	7.14	120.31	109.60
1	cz	41	SER	CA-C-O	7.14	128.12	120.55
1	db	125	PRO	N-CA-CB	-7.14	97.80	102.65
1	dp	68	MET	CA-C-N	7.14	129.72	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dp	68	MET	C-N-CA	7.14	129.72	120.44
1	eb	173	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	eI	185	MET	CA-C-N	7.14	129.85	120.28
1	eI	185	MET	C-N-CA	7.14	129.85	120.28
1	f3	164	TYR	CB-CA-C	7.14	122.09	110.88
1	f6	226	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	fc	104	ILE	CB-CA-C	-7.14	102.50	112.14
1	fy	180	GLU	O-C-N	-7.14	114.72	122.07
1	l	200	THR	N-CA-C	7.14	119.06	111.28
1	u	208	ALA	N-CA-C	7.14	121.09	111.24
1	Q	187	GLU	N-CA-C	7.14	121.25	112.54
1	ga	142	VAL	O-C-N	7.14	128.79	121.87
1	gA	223	GLY	O-C-N	-7.14	114.63	121.77
1	iC	87	HIS	CA-CB-CG	7.14	120.94	113.80
1	k6	186	THR	CA-C-N	7.14	129.84	120.28
1	k6	186	THR	C-N-CA	7.14	129.84	120.28
1	kj	93	PRO	O-C-N	-7.14	114.14	122.85
1	kE	29	GLU	N-CA-C	7.14	119.14	111.36
1	l0	21	ASN	CA-C-N	7.14	129.84	120.28
1	l0	21	ASN	C-N-CA	7.14	129.84	120.28
1	l1	20	LEU	N-CA-C	7.14	118.71	111.07
1	3N	112	GLN	CA-C-N	7.14	129.84	120.28
1	3N	112	GLN	C-N-CA	7.14	129.84	120.28
1	3N	201	ILE	N-CA-CB	7.14	118.90	110.55
1	6k	229	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	6O	85	PRO	O-C-N	-7.14	113.00	122.64
1	83	194	ALA	N-CA-CB	-7.14	99.57	110.42
1	8J	169	TYR	CA-C-N	7.14	129.85	120.28
1	8J	169	TYR	C-N-CA	7.14	129.85	120.28
1	aU	64	ALA	N-CA-C	7.14	119.06	111.28
1	b5	20	LEU	N-CA-C	7.14	118.71	111.07
1	16	118	MET	CA-C-O	7.14	127.29	119.15
1	1e	171	THR	CA-C-N	7.14	129.84	120.28
1	1e	171	THR	C-N-CA	7.14	129.84	120.28
1	dF	201	ILE	CB-CA-C	7.14	121.37	112.02
1	ec	83	LEU	N-CA-CB	-7.14	99.56	110.20
1	ec	219	GLN	CA-C-N	7.14	129.29	120.22
1	ec	219	GLN	C-N-CA	7.14	129.29	120.22
1	1q	87	HIS	CB-CG-CD2	-7.14	121.92	131.20
1	fF	227	LYS	CG-CD-CE	7.14	127.72	111.30
1	1z	40	PHE	N-CA-C	7.14	119.97	111.33
1	c	140	LYS	O-C-N	-7.14	114.55	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	63	GLN	N-CA-C	7.14	118.71	111.07
1	V	135	ILE	O-C-N	-7.14	114.95	121.87
1	7	125	PRO	CA-C-N	7.14	129.55	120.56
1	7	125	PRO	C-N-CA	7.14	129.55	120.56
1	gf	199	LYS	CA-C-O	-7.14	112.04	120.10
1	gm	100	ARG	CA-C-N	7.14	128.02	120.03
1	gm	100	ARG	C-N-CA	7.14	128.02	120.03
1	1H	100	ARG	NE-CZ-NH2	-7.14	112.78	119.20
1	hm	93	PRO	N-CA-C	7.14	122.89	111.26
1	iU	181	VAL	N-CA-CB	7.14	118.90	110.55
1	jy	98	GLU	O-C-N	-7.14	112.58	121.64
1	k2	220	GLY	CA-C-N	7.14	130.83	120.91
1	k2	220	GLY	C-N-CA	7.14	130.83	120.91
1	kg	155	GLN	CA-C-O	7.14	128.21	120.43
1	kp	199	LYS	N-CA-C	7.14	119.06	111.28
1	kB	219	GLN	CA-C-N	7.14	127.72	119.94
1	kB	219	GLN	C-N-CA	7.14	127.72	119.94
1	lr	46	GLY	O-C-N	-7.14	115.42	122.41
1	lv	18	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	lR	179	GLN	CA-CB-CG	7.14	128.37	114.10
1	2Q	183	ASN	OD1-CG-ND2	7.14	129.74	122.60
1	3Q	182	LYS	CA-C-N	7.14	129.84	120.28
1	3Q	182	LYS	C-N-CA	7.14	129.84	120.28
1	4a	161	PHE	CA-C-N	7.14	129.84	120.28
1	4a	161	PHE	C-N-CA	7.14	129.84	120.28
1	4j	117	TRP	CA-C-N	7.14	130.56	120.28
1	4j	117	TRP	C-N-CA	7.14	130.56	120.28
1	4l	13	GLN	O-C-N	-7.14	114.99	123.27
1	5s	78	ALA	O-C-N	7.14	129.80	122.09
1	6a	15	ILE	O-C-N	-7.14	114.93	122.57
1	6i	77	ALA	N-CA-C	7.14	118.71	111.07
1	6K	31	ALA	N-CA-C	7.14	118.71	111.07
1	7y	163	ASP	N-CA-C	7.14	119.14	111.36
1	7Z	201	ILE	N-CA-C	-7.14	103.22	111.00
1	8j	19	THR	CA-C-N	7.14	129.84	120.28
1	8j	19	THR	C-N-CA	7.14	129.84	120.28
1	8A	159	GLU	N-CA-C	7.14	119.98	109.42
1	8V	12	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	9l	32	PHE	CA-CB-CG	-7.14	106.66	113.80
1	9I	131	LYS	CA-C-N	7.14	129.84	120.28
1	9I	131	LYS	C-N-CA	7.14	129.84	120.28
1	al	84	HIS	CB-CA-C	-7.14	103.10	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aI	120	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
1	aO	103	ASP	N-CA-C	7.14	119.06	111.28
1	aY	168	PHE	CA-CB-CG	7.14	120.94	113.80
1	17	24	VAL	N-CA-C	7.14	120.01	111.09
1	bt	155	GLN	O-C-N	-7.14	114.44	122.86
1	cA	113	GLU	N-CA-C	-7.14	103.58	111.36
1	cM	112	GLN	N-CA-C	7.14	119.97	111.33
1	cO	173	ARG	NE-CZ-NH1	7.14	128.64	121.50
1	d2	59	VAL	N-CA-C	7.14	119.00	109.37
1	dW	164	TYR	O-C-N	-7.14	114.56	122.12
1	ej	76	GLU	N-CA-C	7.14	119.06	111.28
1	eG	146	SER	CA-C-N	7.14	127.17	119.89
1	eG	146	SER	C-N-CA	7.14	127.17	119.89
1	eY	185	MET	N-CA-C	7.14	119.06	111.28
1	fY	183	ASN	CA-CB-CG	-7.14	105.46	112.60
1	g1	74	ASN	O-C-N	-7.14	114.72	122.07
1	r	197	ASP	O-C-N	-7.14	114.72	122.07
1	E	159	GLU	CA-C-N	7.14	128.76	119.84
1	E	159	GLU	C-N-CA	7.14	128.76	119.84
1	g8	84	HIS	CA-C-N	7.13	127.17	119.89
1	g8	84	HIS	C-N-CA	7.13	127.17	119.89
1	gn	142	VAL	N-CA-C	7.13	117.27	110.42
1	go	115	ILE	CA-C-N	7.13	128.05	119.99
1	go	115	ILE	C-N-CA	7.13	128.05	119.99
1	gD	153	ILE	CA-C-O	7.13	128.72	121.58
1	gL	130	TYR	CA-C-N	7.13	129.84	120.28
1	gL	130	TYR	C-N-CA	7.13	129.84	120.28
1	gN	41	SER	O-C-N	-7.13	114.72	122.07
1	ha	177	ALA	CA-C-N	7.13	131.52	120.75
1	ha	177	ALA	C-N-CA	7.13	131.52	120.75
1	hC	53	ASN	CA-CB-CG	-7.13	105.47	112.60
1	hD	126	VAL	N-CA-C	7.13	118.75	110.62
1	i3	132	ARG	NH1-CZ-NH2	-7.13	110.03	119.30
1	ja	36	VAL	O-C-N	-7.13	114.48	121.90
1	jA	230	VAL	O-C-N	-7.13	115.47	123.18
1	kc	63	GLN	N-CA-C	7.13	119.06	111.28
1	kp	183	ASN	OD1-CG-ND2	-7.13	115.47	122.60
1	44	84	HIS	CE1-NE2-CD2	-7.13	101.86	109.00
1	4o	179	GLN	N-CA-C	7.13	119.67	111.11
1	4t	36	VAL	CB-CA-C	7.13	121.77	112.14
1	5i	228	ALA	O-C-N	-7.13	114.16	122.93
1	5j	32	PHE	CA-CB-CG	-7.13	106.67	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5P	132	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	74	205	LEU	CA-C-N	7.13	133.07	121.87
1	74	205	LEU	C-N-CA	7.13	133.07	121.87
1	7K	131	LYS	CA-C-N	7.13	129.84	120.28
1	7K	131	LYS	C-N-CA	7.13	129.84	120.28
1	8e	89	GLY	O-C-N	-7.13	114.64	121.77
1	8t	138	LEU	CA-C-N	7.13	129.84	120.28
1	8t	138	LEU	C-N-CA	7.13	129.84	120.28
1	8F	88	ALA	CA-C-N	7.13	133.07	121.87
1	8F	88	ALA	C-N-CA	7.13	133.07	121.87
1	98	165	VAL	CB-CA-C	7.13	121.10	111.97
1	9a	30	LYS	CA-C-N	7.13	130.55	120.28
1	9a	30	LYS	C-N-CA	7.13	130.55	120.28
1	9K	36	VAL	CA-C-O	7.13	128.37	120.95
1	aL	226	HIS	N-CA-CB	-7.13	101.21	111.84
1	16	40	PHE	CA-C-N	7.13	130.42	120.29
1	16	40	PHE	C-N-CA	7.13	130.42	120.29
1	bg	86	VAL	N-CA-C	7.13	121.05	109.78
1	bj	36	VAL	CA-C-N	7.13	126.04	120.33
1	bj	36	VAL	C-N-CA	7.13	126.04	120.33
1	cs	103	ASP	CA-C-N	7.13	130.23	120.46
1	cs	103	ASP	C-N-CA	7.13	130.23	120.46
1	cR	117	TRP	N-CA-C	7.13	119.92	111.71
1	dm	214	MET	O-C-N	-7.13	112.87	122.43
1	dO	43	LEU	N-CA-C	7.13	119.06	111.28
1	eH	100	ARG	NE-CZ-NH2	-7.13	112.78	119.20
1	fN	27	VAL	N-CA-C	7.13	117.90	110.62
1	g1	140	LYS	CA-C-N	7.13	129.55	120.56
1	g1	140	LYS	C-N-CA	7.13	129.55	120.56
1	0	62	HIS	ND1-CE1-NE2	7.13	115.53	108.40
1	E	62	HIS	CA-CB-CG	-7.13	106.67	113.80
1	G	159	GLU	CA-C-N	7.13	127.11	119.76
1	G	159	GLU	C-N-CA	7.13	127.11	119.76
1	H	185	MET	O-C-N	7.13	129.45	122.03
1	gI	11	VAL	CA-C-N	7.13	131.70	121.50
1	gI	11	VAL	C-N-CA	7.13	131.70	121.50
1	gY	143	ARG	CA-C-N	7.13	131.15	120.31
1	gY	143	ARG	C-N-CA	7.13	131.15	120.31
1	hz	128	GLU	CB-CG-CD	7.13	124.73	112.60
1	jl	80	TRP	CA-C-O	7.13	128.53	120.90
1	kz	134	ILE	N-CA-CB	7.13	118.39	110.62
1	2Y	212	GLU	N-CA-CB	7.13	121.41	109.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	30	LYS	N-CA-CB	-7.13	100.17	110.80
1	6n	216	THR	O-C-N	-7.13	114.56	122.12
1	7m	161	PHE	N-CA-C	7.13	119.06	111.28
1	8A	51	ASP	N-CA-C	7.13	118.70	111.07
1	9j	115	ILE	CA-C-N	7.13	127.90	119.98
1	9j	115	ILE	C-N-CA	7.13	127.90	119.98
1	aa	57	ASN	N-CA-C	7.13	121.08	112.38
1	aF	191	VAL	N-CA-C	7.13	118.95	112.17
1	bd	125	PRO	CA-C-N	7.13	132.32	120.62
1	bd	125	PRO	C-N-CA	7.13	132.32	120.62
1	bD	46	GLY	O-C-N	-7.13	116.08	122.57
1	cz	37	ILE	CA-C-O	-7.13	113.91	118.69
1	d6	171	THR	O-C-N	-7.13	114.56	122.12
1	de	40	PHE	O-C-N	-7.13	114.56	122.12
1	x	40	PHE	CA-C-N	7.13	130.42	120.29
1	x	40	PHE	C-N-CA	7.13	130.42	120.29
1	A	19	THR	N-CA-CB	7.13	120.61	110.12
1	gi	225	GLY	N-CA-C	7.13	120.17	112.33
1	go	65	ALA	N-CA-C	7.13	119.05	111.28
1	gw	87	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	gZ	150	ILE	CA-C-N	7.13	131.15	120.31
1	gZ	150	ILE	C-N-CA	7.13	131.15	120.31
1	h1	195	ASN	CA-CB-CG	7.13	119.73	112.60
1	ha	69	LEU	CA-C-N	7.13	130.55	120.28
1	ha	69	LEU	C-N-CA	7.13	130.55	120.28
1	hc	154	ARG	NE-CZ-NH2	-7.13	112.78	119.20
1	hl	161	PHE	O-C-N	-7.13	113.55	122.82
1	i5	192	GLN	OE1-CD-NE2	-7.13	115.47	122.60
1	io	53	ASN	CA-C-N	7.13	129.84	120.28
1	io	53	ASN	C-N-CA	7.13	129.84	120.28
1	iu	116	GLY	CA-C-O	7.13	128.14	120.30
1	1S	63	GLN	CA-C-O	-7.13	112.86	120.42
1	iV	80	TRP	CB-CG-CD1	-7.13	116.20	126.90
1	j2	69	LEU	O-C-N	-7.13	114.67	122.09
1	jk	27	VAL	N-CA-C	-7.13	103.52	110.72
1	1Y	37	ILE	O-C-N	-7.13	115.01	120.07
1	kw	148	THR	CA-CB-OG1	7.13	120.30	109.60
1	lb	163	ASP	N-CA-CB	7.13	121.28	110.30
1	27	124	ILE	CB-CA-C	-7.13	102.98	111.18
1	lp	33	SER	CA-C-O	-7.13	112.75	120.17
1	lq	180	GLU	CA-C-N	7.13	130.23	120.46
1	lq	180	GLU	C-N-CA	7.13	130.23	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	29	183	ASN	OD1-CG-ND2	-7.13	115.47	122.60
1	lN	134	ILE	CA-C-N	7.13	130.23	120.46
1	lN	134	ILE	C-N-CA	7.13	130.23	120.46
1	2g	62	HIS	CB-CG-CD2	-7.13	121.93	131.20
1	2l	120	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	2I	9	GLN	CA-C-N	7.13	130.84	120.71
1	2I	9	GLN	C-N-CA	7.13	130.84	120.71
1	3e	100	ARG	CD-NE-CZ	7.13	134.38	124.40
1	3f	21	ASN	N-CA-C	7.13	118.70	111.07
1	3o	132	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	3x	154	ARG	N-CA-C	-7.13	98.23	109.07
1	3Q	140	LYS	N-CA-C	7.13	119.13	111.36
1	4s	102	SER	N-CA-CB	7.13	120.60	110.12
1	4Z	53	ASN	CA-CB-CG	-7.13	105.47	112.60
1	5F	134	ILE	CA-C-N	7.13	130.23	120.46
1	5F	134	ILE	C-N-CA	7.13	130.23	120.46
1	5I	195	ASN	N-CA-C	7.13	119.75	109.84
1	5V	181	VAL	N-CA-C	7.13	118.75	110.62
1	5W	48	THR	CA-C-O	-7.13	114.18	120.60
1	5Y	29	GLU	N-CA-C	7.13	120.46	111.69
1	7l	172	LEU	CA-C-O	7.13	128.15	119.31
1	7q	67	GLN	N-CA-C	7.13	119.05	111.28
1	7y	83	LEU	N-CA-C	7.13	119.13	111.36
1	83	62	HIS	CB-CG-ND1	-7.13	112.00	122.70
1	83	193	ASN	CA-C-O	7.13	127.67	119.18
1	8r	105	ALA	N-CA-C	-7.13	104.55	113.18
1	9n	37	ILE	N-CA-CB	-7.13	104.89	110.45
1	9z	188	THR	CA-C-O	7.13	124.74	119.68
1	Y	162	ARG	N-CA-C	7.13	119.05	111.28
1	9W	55	MET	N-CA-C	7.13	119.05	111.28
1	a0	74	ASN	CA-CB-CG	-7.13	105.47	112.60
1	ak	173	ARG	NH1-CZ-NH2	-7.13	110.03	119.30
1	az	113	GLU	N-CA-C	7.13	118.70	111.07
1	aS	212	GLU	N-CA-C	7.13	118.70	111.07
1	aW	120	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	bQ	27	VAL	N-CA-CB	7.13	119.70	110.57
1	cp	143	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	cq	56	LEU	CA-C-O	7.13	128.11	120.55
1	cF	37	ILE	O-C-N	-7.13	115.01	120.07
1	cJ	73	ILE	CA-C-N	7.13	129.84	120.28
1	cJ	73	ILE	C-N-CA	7.13	129.84	120.28
1	cL	84	HIS	CA-CB-CG	7.13	120.93	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	98	GLU	CA-C-N	7.13	127.53	119.83
1	d8	98	GLU	C-N-CA	7.13	127.53	119.83
1	d9	17	PRO	N-CA-C	-7.13	104.94	113.86
1	dT	195	ASN	OD1-CG-ND2	7.13	129.73	122.60
1	e5	191	VAL	N-CA-C	7.13	117.27	110.42
1	es	202	LEU	N-CA-C	7.13	119.91	111.71
1	eE	121	ASN	CA-C-O	-7.13	112.21	120.34
1	f8	12	HIS	CB-CG-CD2	-7.13	121.93	131.20
1	fB	75	GLU	N-CA-C	7.13	120.09	111.82
1	o	105	ALA	CA-C-N	7.13	130.88	120.11
1	o	105	ALA	C-N-CA	7.13	130.88	120.11
1	gG	108	THR	CA-CB-CG2	-7.13	98.38	110.50
1	hL	40	PHE	N-CA-C	7.13	118.70	111.07
1	iw	63	GLN	CA-C-O	7.13	128.20	119.79
1	iK	183	ASN	CA-CB-CG	-7.13	105.47	112.60
1	jP	91	ILE	CB-CA-C	7.13	120.75	110.98
1	jU	172	LEU	N-CA-C	7.13	119.05	111.28
1	39	37	ILE	N-CA-CB	7.13	114.99	110.50
1	4g	136	LEU	CA-C-N	7.13	127.89	119.98
1	4g	136	LEU	C-N-CA	7.13	127.89	119.98
1	4G	205	LEU	N-CA-C	7.13	119.05	111.28
1	57	75	GLU	N-CA-C	7.13	119.05	111.28
1	6w	54	THR	CA-C-N	7.13	129.83	120.28
1	6w	54	THR	C-N-CA	7.13	129.83	120.28
1	7w	50	GLN	OE1-CD-NE2	-7.13	115.47	122.60
1	8x	150	ILE	O-C-N	-7.13	113.93	122.06
1	ae	131	LYS	O-C-N	-7.13	113.88	122.22
1	ax	141	ILE	N-CA-CB	7.13	120.24	110.54
1	aF	132	ARG	N-CA-C	7.13	119.05	111.28
1	c3	120	HIS	CA-CB-CG	7.13	120.93	113.80
1	1j	216	THR	N-CA-C	7.13	119.05	111.28
1	G	186	THR	N-CA-C	-7.13	104.21	113.12
1	gD	16	SER	O-C-N	-7.13	115.25	121.31
1	gJ	183	ASN	CA-CB-CG	7.13	119.73	112.60
1	hc	23	TRP	O-C-N	-7.13	114.56	122.12
1	hM	106	GLY	CA-C-O	-7.13	110.31	119.58
1	iz	67	GLN	CA-C-O	7.13	128.53	120.90
1	iV	57	ASN	CA-CB-CG	-7.13	105.47	112.60
1	jf	134	ILE	CA-C-N	7.13	130.23	120.46
1	jf	134	ILE	C-N-CA	7.13	130.23	120.46
1	k7	2	ILE	CA-C-O	7.13	128.04	120.48
1	20	213	GLU	O-C-N	-7.13	114.73	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	201	ILE	N-CA-C	7.13	117.26	110.42
1	lo	12	HIS	N-CA-C	7.13	120.57	110.23
1	lK	126	VAL	N-CA-C	7.13	118.75	110.62
1	2i	63	GLN	OE1-CD-NE2	-7.13	115.47	122.60
1	2m	216	THR	CA-C-O	7.13	128.41	119.78
1	2R	7	GLN	CB-CG-CD	7.13	124.72	112.60
1	3u	184	TRP	CB-CG-CD2	-7.13	116.82	126.80
1	4n	153	ILE	N-CA-CB	7.13	120.08	111.31
1	4u	193	ASN	OD1-CG-ND2	-7.13	115.47	122.60
1	4y	4	GLN	N-CA-CB	7.13	122.54	110.49
1	4H	177	ALA	N-CA-C	7.13	120.05	110.35
1	4Y	12	HIS	ND1-CG-CD2	-7.13	98.97	106.10
1	5T	182	LYS	N-CA-C	7.13	118.70	111.07
1	64	146	SER	N-CA-C	7.13	117.80	109.60
1	6h	219	GLN	CA-C-O	7.13	127.69	119.35
1	7j	120	HIS	CA-CB-CG	-7.13	106.67	113.80
1	8a	175	GLU	CA-C-N	7.13	132.51	122.46
1	8a	175	GLU	C-N-CA	7.13	132.51	122.46
1	92	76	GLU	CA-C-O	7.13	128.11	120.55
1	92	163	ASP	CA-C-N	7.13	130.14	120.44
1	92	163	ASP	C-N-CA	7.13	130.14	120.44
1	9C	14	ALA	CA-C-N	7.13	130.26	120.35
1	9C	14	ALA	C-N-CA	7.13	130.26	120.35
1	Z	115	ILE	N-CA-CB	7.13	118.89	110.55
1	a1	90	PRO	CA-C-N	7.13	130.26	120.35
1	a1	90	PRO	C-N-CA	7.13	130.26	120.35
1	ak	184	TRP	CA-C-O	7.13	128.31	120.82
1	ay	87	HIS	CA-CB-CG	7.13	120.93	113.80
1	aM	24	VAL	N-CA-C	7.13	117.89	110.62
1	aN	55	MET	N-CA-C	7.13	119.05	111.28
1	aN	57	ASN	CA-C-N	7.13	129.83	120.28
1	aN	57	ASN	C-N-CA	7.13	129.83	120.28
1	bf	169	TYR	N-CA-C	7.13	119.66	111.11
1	bl	22	ALA	N-CA-C	7.13	119.05	111.28
1	c5	196	PRO	CA-C-N	7.13	129.83	120.28
1	c5	196	PRO	C-N-CA	7.13	129.83	120.28
1	cw	107	THR	N-CA-C	-7.13	105.11	113.88
1	d8	117	TRP	CA-C-O	7.13	128.11	120.55
1	ef	185	MET	CA-C-N	7.13	130.15	120.38
1	ef	185	MET	C-N-CA	7.13	130.15	120.38
1	eJ	62	HIS	CB-CG-CD2	-7.13	121.93	131.20
1	eS	14	ALA	CA-C-N	7.13	131.18	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	14	ALA	C-N-CA	7.13	131.18	120.77
1	f5	6	LEU	O-C-N	-7.13	114.18	123.16
1	fz	181	VAL	N-CA-CB	7.13	120.23	110.54
1	fI	105	ALA	N-CA-CB	-7.13	100.13	110.47
1	d	9	GLN	CA-CB-CG	7.13	128.36	114.10
1	j	18	ARG	NE-CZ-NH1	7.13	128.63	121.50
1	w	216	THR	CB-CA-C	-7.13	98.96	110.79
1	A	216	THR	N-CA-C	7.13	120.09	111.82
1	R	203	LYS	N-CA-C	7.13	119.05	111.28
1	gb	195	ASN	CA-C-N	7.13	128.75	119.84
1	gb	195	ASN	C-N-CA	7.13	128.75	119.84
1	gf	34	PRO	CB-CA-C	7.13	122.20	111.44
1	gt	158	LYS	N-CA-CB	-7.13	99.73	111.06
1	gE	217	ALA	O-C-N	-7.13	114.57	122.84
1	h3	118	MET	N-CA-C	7.13	119.91	111.71
1	hC	201	ILE	N-CA-CB	7.13	118.89	110.55
1	1S	195	ASN	CA-C-O	-7.13	112.93	120.70
1	je	30	LYS	N-CA-C	7.13	122.07	112.88
1	25	209	ALA	O-C-N	-7.13	114.04	122.81
1	kZ	175	GLU	N-CA-C	7.13	120.09	111.82
1	l5	152	ASP	CA-C-O	7.13	128.15	119.31
1	27	160	PRO	CA-C-N	7.13	135.15	121.54
1	27	160	PRO	C-N-CA	7.13	135.15	121.54
1	2C	80	TRP	CA-C-O	7.13	128.10	120.55
1	2E	214	MET	N-CA-C	7.13	119.05	111.28
1	3a	159	GLU	CA-C-N	7.13	127.17	119.90
1	3a	159	GLU	C-N-CA	7.13	127.17	119.90
1	3K	103	ASP	N-CA-C	7.13	119.05	111.28
1	3O	152	ASP	CA-CB-CG	-7.13	105.47	112.60
1	3U	87	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	4e	210	THR	CA-CB-OG1	7.13	120.29	109.60
1	4G	125	PRO	CA-C-N	7.13	129.79	120.60
1	4G	125	PRO	C-N-CA	7.13	129.79	120.60
1	4W	62	HIS	ND1-CE1-NE2	7.13	115.53	108.40
1	53	64	ALA	N-CA-C	-7.13	103.56	112.90
1	5i	120	HIS	CE1-NE2-CD2	-7.13	101.87	109.00
1	5t	80	TRP	CD2-CE2-CZ2	-7.13	115.27	122.40
1	5Z	89	GLY	CA-C-N	7.13	127.55	119.92
1	5Z	89	GLY	C-N-CA	7.13	127.55	119.92
1	6M	200	THR	CA-C-O	7.13	127.97	120.42
1	84	163	ASP	CA-CB-CG	7.13	119.73	112.60
1	8g	199	LYS	CA-C-O	7.13	128.10	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	11	VAL	N-CA-C	7.13	118.15	108.17
1	8D	66	MET	N-CA-CB	7.13	120.34	110.01
1	99	72	THR	CA-C-N	7.13	129.79	120.60
1	99	72	THR	C-N-CA	7.13	129.79	120.60
1	aK	206	GLY	CA-C-N	7.13	126.75	119.19
1	aK	206	GLY	C-N-CA	7.13	126.75	119.19
1	b1	145	TYR	O-C-N	-7.13	114.03	122.15
1	bk	143	ARG	O-C-N	-7.13	114.03	122.15
1	bu	62	HIS	CA-CB-CG	-7.13	106.67	113.80
1	bU	89	GLY	CA-C-N	7.13	127.17	119.90
1	bU	89	GLY	C-N-CA	7.13	127.17	119.90
1	cq	167	ARG	CA-C-N	7.13	130.70	120.79
1	cq	167	ARG	C-N-CA	7.13	130.70	120.79
1	dc	210	THR	O-C-N	-7.13	114.96	122.94
1	dv	133	TRP	N-CA-C	7.13	119.05	111.28
1	dw	204	ALA	CA-C-O	7.13	128.15	120.24
1	dE	47	ALA	N-CA-C	7.13	120.72	110.10
1	dK	162	ARG	N-CA-C	7.13	119.05	111.28
1	ej	52	LEU	O-C-N	-7.13	114.56	122.12
1	eG	120	HIS	CA-CB-CG	7.13	120.93	113.80
1	eK	32	PHE	CA-CB-CG	-7.13	106.67	113.80
1	1u	179	GLN	O-C-N	-7.13	113.58	122.20
1	fq	229	ARG	NE-CZ-NH2	7.13	125.61	119.20
1	fr	101	GLY	CA-C-O	7.13	128.22	120.66
1	3	167	ARG	N-CA-C	7.13	119.05	111.28
1	S	215	MET	O-C-N	-7.13	114.39	122.09
1	gF	214	MET	CG-SD-CE	-7.12	85.22	100.90
1	hv	92	GLU	CA-C-N	7.12	128.75	119.84
1	hv	92	GLU	C-N-CA	7.12	128.75	119.84
1	iP	98	GLU	O-C-N	-7.12	113.45	121.43
1	li	173	ARG	NH1-CZ-NH2	-7.12	110.04	119.30
1	2n	197	ASP	CA-CB-CG	-7.12	105.47	112.60
1	2B	53	ASN	O-C-N	-7.12	114.03	122.15
1	32	210	THR	CA-C-N	7.12	130.54	120.28
1	32	210	THR	C-N-CA	7.12	130.54	120.28
1	3b	49	PRO	CA-C-N	7.12	129.83	120.28
1	3b	49	PRO	C-N-CA	7.12	129.83	120.28
1	3D	226	HIS	CA-C-O	7.12	127.59	119.18
1	3J	76	GLU	N-CA-C	7.12	119.05	111.28
1	3U	148	THR	CA-CB-OG1	7.12	120.29	109.60
1	5O	52	LEU	N-CA-C	7.12	119.05	111.28
1	6c	58	THR	CA-C-O	7.12	128.57	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	112	GLN	N-CA-C	7.12	118.69	111.07
1	9W	211	LEU	O-C-N	-7.12	114.03	122.15
1	a8	167	ARG	NH1-CZ-NH2	-7.12	110.04	119.30
1	aK	185	MET	CA-C-O	7.12	128.10	120.55
1	17	228	ALA	CA-C-N	7.12	131.29	120.82
1	17	228	ALA	C-N-CA	7.12	131.29	120.82
1	ce	27	VAL	N-CA-C	7.12	117.26	110.42
1	1l	14	ALA	N-CA-C	7.12	120.56	110.23
1	eJ	167	ARG	NE-CZ-NH2	7.12	125.61	119.20
1	eZ	164	TYR	CA-C-N	7.12	130.22	120.46
1	eZ	164	TYR	C-N-CA	7.12	130.22	120.46
1	fL	177	ALA	CA-C-N	7.12	130.83	120.71
1	fL	177	ALA	C-N-CA	7.12	130.83	120.71
1	g2	194	ALA	O-C-N	-7.12	113.89	122.65
1	K	120	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	V	20	LEU	N-CA-CB	7.12	120.34	110.01
1	gO	33	SER	CA-C-O	-7.12	113.59	120.64
1	hq	32	PHE	CA-CB-CG	-7.12	106.68	113.80
1	j0	183	ASN	CA-CB-CG	-7.12	105.48	112.60
1	k0	192	GLN	N-CA-C	7.12	119.05	111.28
1	k3	89	GLY	O-C-N	-7.12	114.65	121.77
1	k4	64	ALA	CA-C-N	7.12	130.41	120.29
1	k4	64	ALA	C-N-CA	7.12	130.41	120.29
1	kI	31	ALA	O-C-N	-7.12	113.12	122.59
1	kW	148	THR	N-CA-CB	7.12	120.77	109.51
1	l9	193	ASN	N-CA-C	-7.12	104.60	112.72
1	lv	217	ALA	N-CA-C	7.12	120.82	110.28
1	lw	168	PHE	N-CA-C	7.12	119.66	111.11
1	lF	68	MET	CA-C-O	7.12	128.30	120.82
1	2R	120	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	2U	125	PRO	CA-C-N	7.12	129.79	120.60
1	2U	125	PRO	C-N-CA	7.12	129.79	120.60
1	35	196	PRO	CA-C-O	-7.12	108.80	120.05
1	3f	213	GLU	O-C-N	-7.12	113.88	122.22
1	3p	208	ALA	N-CA-C	-7.12	104.33	113.16
1	3z	112	GLN	N-CA-C	7.12	119.04	111.28
1	3z	193	ASN	CA-C-O	7.12	126.97	119.14
1	3T	117	TRP	O-C-N	-7.12	114.62	122.03
1	4M	84	HIS	CA-CB-CG	-7.12	106.68	113.80
1	5p	57	ASN	CA-CB-CG	-7.12	105.48	112.60
1	5t	135	ILE	N-CA-C	7.12	117.26	110.42
1	5O	132	ARG	NH1-CZ-NH2	-7.12	110.04	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	143	ARG	N-CA-C	7.12	118.83	111.14
1	6B	181	VAL	N-CA-CB	7.12	118.38	110.62
1	6M	91	ILE	N-CA-C	7.12	121.03	109.78
1	76	188	THR	CA-C-N	7.12	130.16	120.54
1	76	188	THR	C-N-CA	7.12	130.16	120.54
1	7l	146	SER	CA-C-N	7.12	128.75	119.84
1	7l	146	SER	C-N-CA	7.12	128.75	119.84
1	7p	87	HIS	CA-C-O	7.12	128.84	120.58
1	7A	18	ARG	NE-CZ-NH2	-7.12	112.79	119.20
1	9q	179	GLN	CA-C-O	7.12	128.15	120.10
1	a4	25	LYS	N-CA-C	7.12	119.13	111.36
1	aS	74	ASN	CA-CB-CG	-7.12	105.48	112.60
1	aU	174	ALA	N-CA-C	7.12	119.04	111.28
1	bc	132	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	bu	178	SER	CA-C-N	7.12	130.16	120.54
1	bu	178	SER	C-N-CA	7.12	130.16	120.54
1	cc	87	HIS	CA-CB-CG	7.12	120.92	113.80
1	dk	208	ALA	N-CA-C	-7.12	103.69	112.88
1	dG	218	CYS	CA-C-N	7.12	133.22	121.39
1	dG	218	CYS	C-N-CA	7.12	133.22	121.39
1	dP	100	ARG	NH1-CZ-NH2	-7.12	110.04	119.30
1	fS	173	ARG	CD-NE-CZ	-7.12	114.43	124.40
1	3	33	SER	O-C-N	7.12	127.11	121.55
1	6	112	GLN	N-CA-C	7.12	120.08	111.82
1	8	116	GLY	CA-C-O	-7.12	111.05	119.45
1	h0	226	HIS	CA-C-O	7.12	128.85	120.66
1	hg	42	ALA	O-C-N	-7.12	114.57	122.12
1	hl	191	VAL	O-C-N	-7.12	114.93	121.91
1	1N	130	TYR	N-CA-C	-7.12	103.60	111.36
1	if	62	HIS	N-CA-C	7.12	121.92	113.23
1	jW	161	PHE	CA-C-O	-7.12	113.00	120.55
1	k5	32	PHE	CA-CB-CG	-7.12	106.68	113.80
1	ks	201	ILE	O-C-N	-7.12	114.91	121.89
1	lg	151	LEU	CA-C-N	7.12	130.14	120.38
1	lg	151	LEU	C-N-CA	7.12	130.14	120.38
1	lj	177	ALA	N-CA-C	7.12	120.82	110.28
1	2T	184	TRP	CA-C-O	7.12	128.16	119.97
1	3f	79	GLU	O-C-N	-7.12	114.57	122.12
1	3N	33	SER	CA-C-O	-7.12	113.49	120.97
1	3X	182	LYS	CA-C-O	7.12	128.03	120.70
1	40	144	MET	N-CA-C	7.12	119.95	111.33
1	40	171	THR	CA-C-N	7.12	129.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	40	171	THR	C-N-CA	7.12	129.82	120.28
1	4j	226	HIS	CB-CA-C	-7.12	99.90	110.16
1	4o	89	GLY	O-C-N	-7.12	114.65	121.77
1	4M	126	VAL	N-CA-C	7.12	117.89	110.62
1	5D	171	THR	N-CA-C	-7.12	103.45	111.07
1	6l	225	GLY	CA-C-N	7.12	131.13	120.31
1	6l	225	GLY	C-N-CA	7.12	131.13	120.31
1	6Q	5	ASN	CA-CB-CG	-7.12	105.48	112.60
1	6Z	144	MET	N-CA-C	7.12	119.12	111.36
1	75	53	ASN	CA-C-N	7.12	129.70	120.44
1	75	53	ASN	C-N-CA	7.12	129.70	120.44
1	7h	96	MET	O-C-N	-7.12	116.01	123.56
1	7q	170	LYS	N-CA-C	7.12	119.04	111.28
1	7K	183	ASN	OD1-CG-ND2	-7.12	115.48	122.60
1	7P	41	SER	CA-C-N	7.12	129.70	120.44
1	7P	41	SER	C-N-CA	7.12	129.70	120.44
1	8r	75	GLU	O-C-N	-7.12	114.57	122.12
1	8K	57	ASN	CA-CB-CG	7.12	119.72	112.60
1	8W	206	GLY	CA-C-N	7.12	126.74	119.19
1	8W	206	GLY	C-N-CA	7.12	126.74	119.19
1	ad	99	PRO	CB-CA-C	-7.12	102.78	111.11
1	ah	170	LYS	N-CA-C	7.12	119.04	111.28
1	aA	132	ARG	O-C-N	-7.12	114.68	122.09
1	aJ	140	LYS	CA-C-N	7.12	130.22	120.46
1	aJ	140	LYS	C-N-CA	7.12	130.22	120.46
1	1d	26	VAL	N-CA-C	7.12	117.88	110.62
1	cz	120	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	1g	67	GLN	CA-C-O	-7.12	113.28	120.90
1	dn	115	ILE	CA-C-N	7.12	127.89	119.98
1	dn	115	ILE	C-N-CA	7.12	127.89	119.98
1	dx	174	ALA	N-CA-C	7.12	119.12	111.36
1	eh	56	LEU	CA-C-N	7.12	130.40	120.29
1	eh	56	LEU	C-N-CA	7.12	130.40	120.29
1	el	41	SER	O-C-N	-7.12	114.03	122.15
1	0	64	ALA	CA-C-O	-7.12	113.34	120.82
1	c	193	ASN	CA-CB-CG	-7.12	105.48	112.60
1	J	55	MET	N-CA-C	7.12	119.04	111.28
1	V	226	HIS	CA-C-O	7.12	127.65	119.18
1	hj	91	ILE	CA-C-O	7.12	128.83	121.28
1	hQ	87	HIS	ND1-CE1-NE2	7.12	115.52	108.40
1	ie	138	LEU	O-C-N	-7.12	114.74	122.07
1	jq	147	PRO	N-CA-C	7.12	122.38	111.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kB	168	PHE	O-C-N	-7.12	114.74	122.07
1	kS	82	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	lh	192	GLN	N-CA-C	7.12	119.04	111.28
1	lQ	51	ASP	N-CA-C	7.12	119.04	111.28
1	3j	50	GLN	CA-C-N	7.12	129.82	120.28
1	3j	50	GLN	C-N-CA	7.12	129.82	120.28
1	3j	159	GLU	N-CA-C	7.12	118.68	109.64
1	3I	21	ASN	N-CA-C	7.12	118.69	111.07
1	4L	47	ALA	CA-C-O	7.12	129.17	121.05
1	7V	170	LYS	N-CA-C	7.12	118.69	111.07
1	8s	78	ALA	CB-CA-C	-7.12	99.70	110.88
1	8R	28	GLU	N-CA-C	7.12	118.69	111.07
1	9e	10	MET	N-CA-C	7.12	119.50	110.24
1	9n	162	ARG	NE-CZ-NH2	-7.12	112.79	119.20
1	aq	66	MET	N-CA-C	7.12	119.12	111.36
1	bC	26	VAL	O-C-N	-7.12	113.75	121.80
1	c9	136	LEU	O-C-N	-7.12	114.57	122.12
1	cv	49	PRO	CA-C-N	7.12	129.70	120.44
1	cv	49	PRO	C-N-CA	7.12	129.70	120.44
1	cQ	163	ASP	CB-CA-C	7.12	122.20	110.81
1	d0	177	ALA	CA-C-N	7.12	131.50	120.75
1	d0	177	ALA	C-N-CA	7.12	131.50	120.75
1	dA	121	ASN	CB-CG-ND2	7.12	127.08	116.40
1	dG	135	ILE	O-C-N	-7.12	113.75	121.80
1	0	86	VAL	N-CA-C	7.12	118.63	109.30
1	r	189	LEU	CA-C-N	7.12	129.70	120.44
1	r	189	LEU	C-N-CA	7.12	129.70	120.44
1	T	192	GLN	OE1-CD-NE2	-7.12	115.48	122.60
1	g8	111	LEU	N-CA-CB	7.12	120.58	110.12
1	gj	165	VAL	N-CA-CB	7.12	120.22	110.54
1	1N	173	ARG	NE-CZ-NH2	-7.12	112.79	119.20
1	i9	226	HIS	CA-CB-CG	-7.12	106.68	113.80
1	iy	163	ASP	CA-C-N	7.12	130.40	120.29
1	iy	163	ASP	C-N-CA	7.12	130.40	120.29
1	iH	181	VAL	O-C-N	-7.12	114.96	121.87
1	jb	155	GLN	OE1-CD-NE2	-7.12	115.48	122.60
1	jm	146	SER	N-CA-C	7.12	118.68	109.64
1	k7	63	GLN	CG-CD-NE2	7.12	127.08	116.40
1	kq	103	ASP	CA-CB-CG	-7.12	105.48	112.60
1	kD	18	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	kL	20	LEU	O-C-N	-7.12	114.03	122.15
1	24	209	ALA	O-C-N	-7.12	114.06	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ld	155	GLN	N-CA-C	7.12	120.64	109.96
1	ln	50	GLN	CA-C-N	7.12	129.69	120.44
1	ln	50	GLN	C-N-CA	7.12	129.69	120.44
1	2V	139	ASN	CA-C-O	7.12	127.97	120.42
1	3f	70	LYS	O-C-N	-7.12	113.51	122.27
1	3t	197	ASP	N-CA-C	-7.12	103.60	111.36
1	3H	58	THR	CA-C-O	-7.12	112.06	120.10
1	5B	116	GLY	O-C-N	-7.12	115.35	122.18
1	6j	120	HIS	N-CA-CB	7.12	120.20	110.38
1	6j	161	PHE	CA-CB-CG	7.12	120.92	113.80
1	6y	84	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	6F	62	HIS	O-C-N	-7.12	114.63	122.67
1	7B	124	ILE	CA-C-O	7.12	124.22	119.38
1	8q	87	HIS	CG-CD2-NE2	7.12	114.32	107.20
1	8I	19	THR	N-CA-C	7.12	118.69	111.07
1	8L	10	MET	CA-C-N	7.12	132.28	123.10
1	8L	10	MET	C-N-CA	7.12	132.28	123.10
1	9d	182	LYS	O-C-N	-7.12	114.69	122.09
1	9k	4	GLN	CA-C-O	-7.12	113.41	121.81
1	9u	167	ARG	N-CA-C	7.12	119.04	111.28
1	b0	87	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	bb	179	GLN	N-CA-C	7.12	119.94	111.33
1	bM	67	GLN	CA-C-N	7.12	129.69	120.44
1	bM	67	GLN	C-N-CA	7.12	129.69	120.44
1	c8	205	LEU	N-CA-C	7.12	119.04	111.28
1	cD	48	THR	O-C-N	-7.12	114.79	121.20
1	dQ	170	LYS	O-C-N	-7.12	114.57	122.12
1	er	110	THR	CB-CA-C	7.12	121.55	109.80
1	eL	223	GLY	N-CA-C	7.12	120.54	112.00
1	eV	83	LEU	O-C-N	-7.12	112.79	122.33
1	eZ	71	GLU	CA-C-N	7.12	130.40	120.29
1	eZ	71	GLU	C-N-CA	7.12	130.40	120.29
1	fu	132	ARG	CA-C-N	7.12	129.82	120.28
1	fu	132	ARG	C-N-CA	7.12	129.82	120.28
1	g6	33	SER	CA-C-N	7.12	128.74	119.84
1	g6	33	SER	C-N-CA	7.12	128.74	119.84
1	c	178	SER	CA-C-N	7.12	129.69	120.44
1	c	178	SER	C-N-CA	7.12	129.69	120.44
1	P	156	GLY	N-CA-C	7.12	120.54	112.00
1	gt	120	HIS	CG-CD2-NE2	7.12	114.32	107.20
1	gv	165	VAL	O-C-N	-7.12	114.97	121.87
1	gW	68	MET	N-CA-C	7.12	119.04	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jG	148	THR	N-CA-C	7.12	120.97	110.30
1	ku	134	ILE	CA-C-O	7.12	128.39	120.85
1	lk	3	VAL	N-CA-CB	7.12	121.23	111.41
1	lL	40	PHE	CA-C-O	7.12	128.09	120.55
1	2P	154	ARG	NH1-CZ-NH2	-7.12	110.05	119.30
1	3w	32	PHE	O-C-N	7.12	131.01	122.26
1	3G	51	ASP	CA-CB-CG	7.12	119.72	112.60
1	3S	74	ASN	CA-C-N	7.12	130.12	120.44
1	3S	74	ASN	C-N-CA	7.12	130.12	120.44
1	41	14	ALA	CA-C-N	7.12	134.78	121.97
1	41	14	ALA	C-N-CA	7.12	134.78	121.97
1	4l	183	ASN	CA-C-N	7.12	129.82	120.28
1	4l	183	ASN	C-N-CA	7.12	129.82	120.28
1	4C	12	HIS	CA-CB-CG	7.12	120.92	113.80
1	55	162	ARG	N-CA-C	7.12	119.94	111.33
1	6p	97	ARG	NE-CZ-NH2	7.12	125.61	119.20
1	6x	172	LEU	N-CA-C	7.12	119.94	111.33
1	77	230	VAL	CA-C-N	7.12	134.51	121.70
1	77	230	VAL	C-N-CA	7.12	134.51	121.70
1	78	40	PHE	CA-CB-CG	-7.12	106.68	113.80
1	7v	141	ILE	O-C-N	-7.12	115.69	122.09
1	8w	125	PRO	N-CA-CB	-7.12	96.94	102.28
1	9t	100	ARG	CA-C-N	7.12	127.88	119.98
1	9t	100	ARG	C-N-CA	7.12	127.88	119.98
1	bd	223	GLY	CA-C-N	7.12	127.15	119.89
1	bd	223	GLY	C-N-CA	7.12	127.15	119.89
1	bK	114	GLN	N-CA-C	7.12	119.65	111.11
1	cY	89	GLY	CA-C-N	7.12	127.04	119.85
1	cY	89	GLY	C-N-CA	7.12	127.04	119.85
1	dN	87	HIS	ND1-CE1-NE2	7.12	115.52	108.40
1	ed	121	ASN	O-C-N	7.12	128.35	121.66
1	eC	84	HIS	CA-CB-CG	-7.12	106.68	113.80
1	eH	74	ASN	O-C-N	-7.12	114.58	122.12
1	eS	91	ILE	O-C-N	7.12	129.30	121.90
1	i	73	ILE	CA-C-O	7.12	128.35	120.95
1	gg	204	ALA	N-CA-C	7.12	119.12	111.36
1	gp	141	ILE	N-CA-C	7.12	117.83	110.36
1	h0	89	GLY	CA-C-N	7.12	128.73	119.84
1	h0	89	GLY	C-N-CA	7.12	128.73	119.84
1	hH	167	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	ia	156	GLY	CA-C-N	7.12	126.73	119.19
1	ia	156	GLY	C-N-CA	7.12	126.73	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	48	THR	N-CA-CB	7.12	117.53	109.49
1	id	142	VAL	O-C-N	-7.12	114.94	121.91
1	iq	22	ALA	N-CA-C	7.12	119.89	111.71
1	iC	106	GLY	CA-C-N	7.12	131.49	120.82
1	iC	106	GLY	C-N-CA	7.12	131.49	120.82
1	iD	70	LYS	N-CA-C	7.12	119.89	111.71
1	1R	2	ILE	N-CA-C	7.12	120.00	108.97
1	j8	179	GLN	N-CA-C	7.12	119.65	111.11
1	jh	121	ASN	CA-C-O	-7.12	114.04	119.59
1	jl	162	ARG	CA-C-N	7.12	129.81	120.28
1	jl	162	ARG	C-N-CA	7.12	129.81	120.28
1	ks	167	ARG	NE-CZ-NH1	7.12	128.62	121.50
1	2N	51	ASP	CA-C-N	7.12	129.69	120.44
1	2N	51	ASP	C-N-CA	7.12	129.69	120.44
1	32	168	PHE	N-CA-C	7.12	118.68	111.07
1	43	212	GLU	CA-C-O	7.12	128.09	120.55
1	4C	173	ARG	NH1-CZ-NH2	7.12	128.55	119.30
1	51	191	VAL	CA-C-N	7.12	129.81	120.28
1	51	191	VAL	C-N-CA	7.12	129.81	120.28
1	5q	172	LEU	CA-C-N	7.12	129.81	120.28
1	5q	172	LEU	C-N-CA	7.12	129.81	120.28
1	5t	195	ASN	CB-CA-C	7.12	120.79	109.62
1	5A	54	THR	CA-C-O	7.12	128.14	120.10
1	5Z	82	ARG	NE-CZ-NH2	-7.12	112.80	119.20
1	6z	173	ARG	NE-CZ-NH2	-7.12	112.80	119.20
1	6K	154	ARG	NH1-CZ-NH2	-7.12	110.05	119.30
1	6R	12	HIS	CE1-NE2-CD2	-7.12	101.88	109.00
1	7z	179	GLN	N-CA-CB	-7.12	99.66	110.33
1	7C	226	HIS	CA-CB-CG	7.12	120.92	113.80
1	9e	65	ALA	N-CA-C	7.12	118.83	111.14
1	9K	15	ILE	N-CA-C	7.12	118.62	109.30
1	ad	168	PHE	CA-CB-CG	7.12	120.92	113.80
1	ah	206	GLY	CA-C-N	7.12	126.75	119.56
1	ah	206	GLY	C-N-CA	7.12	126.75	119.56
1	b4	42	ALA	CA-C-O	7.12	128.29	120.82
1	bj	13	GLN	OE1-CD-NE2	-7.12	115.48	122.60
1	bF	98	GLU	N-CA-C	7.12	118.87	109.83
1	bU	149	SER	N-CA-C	7.12	120.27	110.24
1	c1	7	GLN	CA-C-N	-7.12	113.58	120.34
1	c1	7	GLN	C-N-CA	-7.12	113.58	120.34
1	ch	84	HIS	CB-CA-C	-7.12	103.07	110.33
1	cP	138	LEU	CA-C-N	7.12	129.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cP	138	LEU	C-N-CA	7.12	129.81	120.28
1	da	171	THR	N-CA-CB	7.12	120.69	110.16
1	dJ	16	SER	N-CA-C	7.12	120.33	110.01
1	ev	84	HIS	CA-C-N	7.12	128.74	119.84
1	ev	84	HIS	C-N-CA	7.12	128.74	119.84
1	fe	120	HIS	CG-CD2-NE2	7.12	114.32	107.20
1	fQ	84	HIS	N-CA-C	7.12	118.68	109.64
1	g4	63	GLN	N-CA-C	7.12	119.04	111.28
1	b	74	ASN	OD1-CG-ND2	-7.12	115.48	122.60
1	z	177	ALA	O-C-N	-7.12	114.29	122.97
1	ge	88	ALA	O-C-N	-7.11	115.09	123.06
1	hd	173	ARG	N-CA-C	7.11	119.70	111.02
1	1J	191	VAL	O-C-N	-7.11	115.26	122.23
1	hC	97	ARG	N-CA-C	7.11	119.49	110.24
1	ia	26	VAL	N-CA-C	7.11	117.88	110.62
1	in	179	GLN	N-CA-C	7.11	123.03	111.37
1	iH	170	LYS	N-CA-C	7.11	118.68	111.07
1	jj	12	HIS	O-C-N	-7.11	114.62	123.01
1	k6	197	ASP	N-CA-C	7.11	119.11	111.36
1	ku	219	GLN	O-C-N	-7.11	114.95	123.27
1	l2	19	THR	CA-C-N	7.11	130.39	120.29
1	l2	19	THR	C-N-CA	7.11	130.39	120.29
1	lF	135	ILE	N-CA-CB	7.11	118.87	110.55
1	3N	212	GLU	O-C-N	-7.11	114.58	122.12
1	4C	123	PRO	CA-C-N	7.11	127.71	122.59
1	4C	123	PRO	C-N-CA	7.11	127.71	122.59
1	4I	178	SER	N-CA-C	7.11	119.49	110.24
1	56	109	SER	O-C-N	-7.11	114.62	123.01
1	5d	67	GLN	N-CA-C	7.11	119.03	111.28
1	5p	84	HIS	O-C-N	-7.11	114.89	121.36
1	6g	120	HIS	ND1-CE1-NE2	7.11	115.51	108.40
1	7l	64	ALA	CA-C-N	7.11	129.81	120.28
1	7l	64	ALA	C-N-CA	7.11	129.81	120.28
1	7z	198	CYS	CA-C-O	7.11	127.96	120.42
1	8w	228	ALA	N-CA-CB	7.11	122.51	110.49
1	8x	161	PHE	CA-C-N	7.11	129.81	120.28
1	8x	161	PHE	C-N-CA	7.11	129.81	120.28
1	8P	56	LEU	N-CA-C	7.11	119.89	111.71
1	9h	18	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	9l	97	ARG	O-C-N	-7.11	114.68	122.79
1	9l	184	TRP	CA-C-N	7.11	129.81	120.28
1	9l	184	TRP	C-N-CA	7.11	129.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9B	107	THR	N-CA-CB	7.11	120.33	110.01
1	9Y	144	MET	N-CA-C	7.11	119.03	111.28
1	aV	73	ILE	CA-C-O	-7.11	112.79	120.47
1	b4	41	SER	CA-C-N	7.11	129.69	120.44
1	b4	41	SER	C-N-CA	7.11	129.69	120.44
1	bq	82	ARG	CA-C-N	7.11	131.12	120.31
1	bq	82	ARG	C-N-CA	7.11	131.12	120.31
1	bC	181	VAL	CA-C-N	7.11	129.81	120.28
1	bC	181	VAL	C-N-CA	7.11	129.81	120.28
1	c9	66	MET	O-C-N	-7.11	114.74	122.07
1	cv	130	TYR	N-CA-C	7.11	118.68	111.07
1	1g	26	VAL	N-CA-CB	7.11	120.21	110.54
1	dl	144	MET	CA-C-O	7.11	127.96	120.42
1	dL	64	ALA	N-CA-C	7.11	119.11	111.36
1	eg	229	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	ek	123	PRO	N-CA-C	7.11	122.86	111.26
1	fa	121	ASN	CB-CA-C	7.11	120.09	110.13
1	fH	173	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	J	82	ARG	CA-C-N	7.11	130.39	120.29
1	J	82	ARG	C-N-CA	7.11	130.39	120.29
1	gm	2	ILE	O-C-N	-7.11	115.14	123.03
1	hA	70	LYS	N-CA-C	7.11	119.03	111.28
1	1R	132	ARG	N-CA-C	7.11	119.03	111.28
1	iN	16	SER	O-C-N	-7.11	113.97	121.30
1	jn	131	LYS	N-CA-C	7.11	119.94	111.33
1	km	201	ILE	N-CA-C	7.11	118.73	110.62
1	kF	165	VAL	N-CA-C	7.11	117.87	110.62
1	kN	167	ARG	N-CA-C	7.11	119.03	111.28
1	2q	136	LEU	N-CA-C	7.11	119.03	111.28
1	2H	93	PRO	N-CA-CB	-7.11	95.91	103.38
1	2I	79	GLU	CA-C-N	7.11	130.14	120.54
1	2I	79	GLU	C-N-CA	7.11	130.14	120.54
1	2R	161	PHE	CA-C-N	7.11	129.69	120.44
1	2R	161	PHE	C-N-CA	7.11	129.69	120.44
1	3G	146	SER	CA-C-O	-7.11	112.77	120.17
1	4h	84	HIS	O-C-N	-7.11	113.01	121.12
1	4p	48	THR	O-C-N	-7.11	113.56	121.53
1	4H	195	ASN	CA-CB-CG	7.11	119.71	112.60
1	4Y	115	ILE	N-CA-C	7.11	117.87	110.62
1	59	82	ARG	NE-CZ-NH2	7.11	125.60	119.20
1	59	154	ARG	NH1-CZ-NH2	-7.11	110.05	119.30
1	5a	139	ASN	OD1-CG-ND2	-7.11	115.49	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	75	162	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	8A	128	GLU	CA-C-N	7.11	129.52	120.56
1	8A	128	GLU	C-N-CA	7.11	129.52	120.56
1	8K	31	ALA	N-CA-C	7.11	119.89	111.71
1	8U	48	THR	CA-C-O	-7.11	112.95	120.70
1	97	121	ASN	CA-C-O	-7.11	112.72	119.55
1	9q	117	TRP	N-CA-C	7.11	119.03	111.28
1	9H	100	ARG	CG-CD-NE	-7.11	96.35	112.00
1	9U	102	SER	CA-C-O	-7.11	112.88	120.42
1	a9	89	GLY	CA-C-N	7.11	127.14	119.89
1	a9	89	GLY	C-N-CA	7.11	127.14	119.89
1	aZ	41	SER	CA-C-O	7.11	128.29	120.82
1	1a	100	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	bW	197	ASP	CA-CB-CG	-7.11	105.49	112.60
1	cb	167	ARG	N-CA-C	7.11	119.64	111.11
1	dq	8	GLY	N-CA-C	7.11	120.15	112.33
1	et	69	LEU	CA-C-N	7.11	129.81	120.28
1	et	69	LEU	C-N-CA	7.11	129.81	120.28
1	1r	200	THR	CA-C-N	7.11	130.20	120.46
1	1r	200	THR	C-N-CA	7.11	130.20	120.46
1	eE	49	PRO	O-C-N	-7.11	114.06	122.24
1	1z	139	ASN	N-CA-CB	7.11	121.17	110.22
1	B	36	VAL	N-CA-C	7.11	117.90	110.72
1	gO	103	ASP	CA-CB-CG	-7.11	105.49	112.60
1	hl	114	GLN	OE1-CD-NE2	-7.11	115.49	122.60
1	ht	10	MET	N-CA-C	7.11	121.19	111.17
1	hA	28	GLU	CA-C-N	7.11	130.04	120.65
1	hA	28	GLU	C-N-CA	7.11	130.04	120.65
1	hG	103	ASP	N-CA-C	7.11	119.03	111.28
1	hO	162	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	i7	167	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	iz	67	GLN	CA-C-N	7.11	130.39	120.29
1	iz	67	GLN	C-N-CA	7.11	130.39	120.29
1	iz	81	ASP	CA-C-O	7.11	127.96	120.42
1	iC	204	ALA	CA-C-N	7.11	129.81	120.28
1	iC	204	ALA	C-N-CA	7.11	129.81	120.28
1	1X	4	GLN	N-CA-C	7.11	121.05	111.24
1	kd	102	SER	N-CA-C	7.11	119.89	111.71
1	kd	134	ILE	N-CA-C	7.11	117.25	110.42
1	21	211	LEU	N-CA-C	7.11	119.89	111.71
1	kp	102	SER	CA-C-N	7.11	130.39	120.29
1	kp	102	SER	C-N-CA	7.11	130.39	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	95	GLN	OE1-CD-NE2	-7.11	115.49	122.60
1	l6	26	VAL	N-CA-C	7.11	117.62	110.23
1	lL	68	MET	CA-C-O	7.11	127.96	120.42
1	2s	133	TRP	CB-CG-CD1	7.11	137.56	126.90
1	2V	78	ALA	CA-C-N	7.11	130.12	120.38
1	2V	78	ALA	C-N-CA	7.11	130.12	120.38
1	3v	25	LYS	N-CA-C	7.11	119.03	111.28
1	3H	29	GLU	O-C-N	7.11	129.77	122.09
1	4j	62	HIS	N-CA-C	7.11	125.94	110.80
1	4Q	173	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	4R	7	GLN	OE1-CD-NE2	-7.11	115.49	122.60
1	5k	134	ILE	N-CA-CB	7.11	118.87	110.55
1	5s	167	ARG	NH1-CZ-NH2	-7.11	110.06	119.30
1	5t	153	ILE	N-CA-C	7.11	118.82	107.73
1	5R	166	ASP	CA-C-N	7.11	129.81	120.28
1	5R	166	ASP	C-N-CA	7.11	129.81	120.28
1	5V	216	THR	CA-C-N	7.11	131.49	120.75
1	5V	216	THR	C-N-CA	7.11	131.49	120.75
1	69	56	LEU	CA-C-N	7.11	129.81	120.28
1	69	56	LEU	C-N-CA	7.11	129.81	120.28
1	6c	159	GLU	O-C-N	-7.11	114.81	121.35
1	6j	115	ILE	CA-C-N	7.11	127.99	120.03
1	6j	115	ILE	C-N-CA	7.11	127.99	120.03
1	6I	106	GLY	CA-C-N	7.11	129.68	120.44
1	6I	106	GLY	C-N-CA	7.11	129.68	120.44
1	7G	212	GLU	CA-C-N	7.11	129.69	120.44
1	7G	212	GLU	C-N-CA	7.11	129.69	120.44
1	84	226	HIS	N-CA-C	7.11	120.27	110.24
1	8N	64	ALA	CA-C-N	7.11	129.81	120.28
1	8N	64	ALA	C-N-CA	7.11	129.81	120.28
1	8X	62	HIS	N-CA-C	7.11	121.21	111.54
1	9g	189	LEU	N-CA-C	7.11	119.03	111.28
1	9C	108	THR	N-CA-CB	7.11	119.20	110.53
1	a7	4	GLN	N-CA-C	7.11	118.72	110.97
1	au	43	LEU	N-CA-C	7.11	119.93	111.33
1	ax	181	VAL	N-CA-C	7.11	117.25	110.42
1	aL	72	THR	CA-C-N	7.11	130.20	120.46
1	aL	72	THR	C-N-CA	7.11	130.20	120.46
1	aM	151	LEU	CA-C-N	7.11	129.81	120.28
1	aM	151	LEU	C-N-CA	7.11	129.81	120.28
1	aS	103	ASP	CA-C-N	7.11	130.20	120.46
1	aS	103	ASP	C-N-CA	7.11	130.20	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bc	115	ILE	CA-C-N	7.11	127.83	119.94
1	bc	115	ILE	C-N-CA	7.11	127.83	119.94
1	bp	15	ILE	N-CA-C	7.11	118.19	109.30
1	1a	64	ALA	N-CA-C	7.11	118.68	111.07
1	cG	220	GLY	CA-C-O	-7.11	116.03	122.57
1	dj	76	GLU	N-CA-C	7.11	119.64	111.11
1	dw	84	HIS	CA-C-N	7.11	127.15	119.90
1	dw	84	HIS	C-N-CA	7.11	127.15	119.90
1	dH	116	GLY	N-CA-C	7.11	121.24	112.64
1	e5	84	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
1	ec	206	GLY	O-C-N	-7.11	114.66	121.77
1	eu	87	HIS	ND1-CE1-NE2	7.11	115.51	108.40
1	eF	83	LEU	N-CA-C	7.11	119.93	111.33
1	fZ	224	PRO	N-CA-CB	-7.11	95.78	103.25
1	i	192	GLN	O-C-N	-7.11	114.58	122.12
1	G	71	GLU	CA-C-O	7.11	128.09	120.55
1	N	216	THR	N-CA-C	7.11	118.82	111.14
1	1D	41	SER	N-CA-C	7.11	119.03	111.28
1	gz	191	VAL	O-C-N	7.11	129.03	122.14
1	hf	134	ILE	N-CA-C	7.11	117.87	110.62
1	hK	83	LEU	N-CA-C	7.11	119.03	111.28
1	in	171	THR	O-C-N	-7.11	114.05	122.15
1	iN	88	ALA	N-CA-C	7.11	125.94	110.80
1	iU	35	GLU	O-C-N	-7.11	112.90	122.43
1	jf	83	LEU	N-CA-C	7.11	119.11	111.36
1	ji	18	ARG	NH1-CZ-NH2	-7.11	110.06	119.30
1	jn	173	ARG	N-CA-C	7.11	120.07	111.82
1	k0	144	MET	N-CA-C	7.11	119.11	111.36
1	kR	99	PRO	CA-C-O	-7.11	112.78	121.31
1	lJ	143	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	lJ	173	ARG	N-CA-C	7.11	118.68	111.07
1	2k	150	ILE	CA-CB-CG1	7.11	122.48	110.40
1	2W	23	TRP	CB-CG-CD2	-7.11	116.85	126.80
1	4m	10	MET	N-CA-C	7.11	120.80	110.42
1	4Y	128	GLU	O-C-N	-7.11	114.05	122.15
1	5t	166	ASP	CB-CA-C	7.11	122.19	110.81
1	6b	166	ASP	CA-C-O	7.11	128.28	120.82
1	6x	25	LYS	CA-C-N	7.11	129.52	120.56
1	6x	25	LYS	C-N-CA	7.11	129.52	120.56
1	7x	18	ARG	CA-C-N	7.11	130.11	120.44
1	7x	18	ARG	C-N-CA	7.11	130.11	120.44
1	7N	162	ARG	N-CA-C	7.11	119.93	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8O	134	ILE	O-C-N	-7.11	114.69	121.87
1	Y	34	PRO	N-CA-C	7.11	127.11	112.47
1	ae	84	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
1	aD	192	GLN	N-CA-C	7.11	119.03	111.28
1	b4	143	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	bx	156	GLY	CA-C-N	7.11	128.73	119.84
1	bx	156	GLY	C-N-CA	7.11	128.73	119.84
1	cS	150	ILE	CB-CA-C	7.11	121.74	112.14
1	d3	139	ASN	CA-C-O	-7.11	113.29	120.90
1	dW	214	MET	CA-C-N	7.11	130.12	120.38
1	dW	214	MET	C-N-CA	7.11	130.12	120.38
1	c	189	LEU	N-CA-C	7.11	120.07	111.82
1	9	226	HIS	ND1-CE1-NE2	7.11	115.51	108.40
1	gO	90	PRO	N-CA-CB	7.11	110.71	103.25
1	1H	41	SER	CA-C-O	7.11	128.08	120.55
1	ht	104	ILE	CA-C-O	7.11	128.34	120.95
1	hE	167	ARG	NE-CZ-NH2	7.11	125.60	119.20
1	ih	100	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	ik	220	GLY	O-C-N	-7.11	116.10	122.57
1	1P	68	MET	CB-CA-C	7.11	122.93	110.85
1	iS	229	ARG	NE-CZ-NH1	-7.11	114.39	121.50
1	jH	159	GLU	O-C-N	-7.11	115.27	121.31
1	1Y	162	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	k9	84	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
1	kI	42	ALA	N-CA-C	7.11	119.88	111.71
1	l9	185	MET	N-CA-C	7.11	119.03	111.28
1	lt	37	ILE	CA-C-O	-7.11	113.93	118.69
1	2l	75	GLU	N-CA-C	7.11	119.11	111.36
1	30	216	THR	N-CA-CB	7.11	121.75	110.73
1	3q	12	HIS	CA-CB-CG	7.11	120.91	113.80
1	3B	87	HIS	ND1-CE1-NE2	7.11	115.51	108.40
1	47	10	MET	CA-C-N	7.11	132.00	123.19
1	47	10	MET	C-N-CA	7.11	132.00	123.19
1	4f	148	THR	CA-C-O	-7.11	113.62	121.23
1	4j	163	ASP	CA-C-N	7.11	130.13	120.54
1	4j	163	ASP	C-N-CA	7.11	130.13	120.54
1	56	91	ILE	O-C-N	-7.11	115.18	123.00
1	5n	217	ALA	CA-C-O	7.11	130.09	121.99
1	6h	143	ARG	CG-CD-NE	-7.11	96.36	112.00
1	7n	140	LYS	N-CA-C	7.11	118.68	111.07
1	7L	168	PHE	CA-C-N	7.11	129.80	120.28
1	7L	168	PHE	C-N-CA	7.11	129.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	139	ASN	CA-C-N	7.11	129.80	120.28
1	8z	139	ASN	C-N-CA	7.11	129.80	120.28
1	8E	201	ILE	CA-C-O	7.11	128.38	120.85
1	8F	151	LEU	N-CA-C	7.11	119.03	111.28
1	9C	197	ASP	CA-C-O	7.11	127.95	120.42
1	9T	179	GLN	N-CA-C	7.11	119.64	111.11
1	a1	173	ARG	CG-CD-NE	-7.11	96.36	112.00
1	ao	200	THR	N-CA-CB	7.11	120.57	110.12
1	15	84	HIS	CB-CA-C	-7.11	101.75	109.85
1	aY	229	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	aZ	42	ALA	N-CA-C	7.11	118.82	111.14
1	bj	192	GLN	N-CA-C	7.11	121.21	112.54
1	bs	62	HIS	CA-CB-CG	-7.11	106.69	113.80
1	bO	91	ILE	O-C-N	-7.11	115.40	123.00
1	bU	55	MET	CA-C-O	7.11	128.50	120.90
1	cG	131	LYS	CA-C-N	7.11	130.12	120.38
1	cG	131	LYS	C-N-CA	7.11	130.12	120.38
1	cJ	143	ARG	NE-CZ-NH2	-7.11	112.80	119.20
1	dC	24	VAL	CA-C-N	7.11	130.12	120.38
1	dC	24	VAL	C-N-CA	7.11	130.12	120.38
1	ea	12	HIS	CB-CG-ND1	7.11	133.36	122.70
1	eE	144	MET	CG-SD-CE	-7.11	85.26	100.90
1	1s	220	GLY	N-CA-C	7.11	119.68	111.36
1	fc	170	LYS	CA-C-N	7.11	129.81	120.28
1	fc	170	LYS	C-N-CA	7.11	129.81	120.28
1	fu	96	MET	CA-C-N	7.11	131.48	120.75
1	fu	96	MET	C-N-CA	7.11	131.48	120.75
1	1z	67	GLN	CA-C-O	7.11	128.02	120.70
1	g7	82	ARG	NE-CZ-NH1	7.11	128.61	121.50
1	d	226	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
1	gj	166	ASP	CA-C-N	7.11	129.80	120.28
1	gj	166	ASP	C-N-CA	7.11	129.80	120.28
1	1H	169	TYR	O-C-N	-7.11	114.59	122.12
1	hg	92	GLU	O-C-N	-7.11	116.46	121.65
1	hJ	227	LYS	N-CA-C	7.11	120.53	110.23
1	ia	167	ARG	N-CA-C	7.11	118.67	111.07
1	jL	36	VAL	CA-C-N	7.11	127.25	120.43
1	jL	36	VAL	C-N-CA	7.11	127.25	120.43
1	jU	50	GLN	CA-C-N	7.11	130.12	120.38
1	jU	50	GLN	C-N-CA	7.11	130.12	120.38
1	kC	195	ASN	N-CA-CB	7.11	119.59	109.78
1	kO	68	MET	O-C-N	-7.11	114.59	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lg	128	GLU	O-C-N	-7.11	114.59	122.12
1	li	22	ALA	N-CA-C	7.11	119.03	111.28
1	lo	92	GLU	CB-CG-CD	7.11	124.68	112.60
1	lv	197	ASP	CA-C-N	7.11	130.51	120.28
1	lv	197	ASP	C-N-CA	7.11	130.51	120.28
1	2z	141	ILE	N-CA-CB	-7.11	101.59	110.47
1	2P	198	CYS	O-C-N	-7.11	114.75	122.07
1	35	92	GLU	CA-C-N	7.11	126.72	119.19
1	35	92	GLU	C-N-CA	7.11	126.72	119.19
1	36	5	ASN	N-CA-C	7.11	119.02	111.28
1	3Y	108	THR	CA-CB-OG1	7.11	120.26	109.60
1	3Y	226	HIS	CG-CD2-NE2	7.11	114.31	107.20
1	44	73	ILE	N-CA-C	7.11	117.87	110.62
1	4c	199	LYS	CA-C-N	7.11	129.80	120.28
1	4c	199	LYS	C-N-CA	7.11	129.80	120.28
1	4X	142	VAL	CA-C-N	7.11	130.13	120.54
1	4X	142	VAL	C-N-CA	7.11	130.13	120.54
1	5a	82	ARG	NE-CZ-NH1	7.11	128.60	121.50
1	5g	173	ARG	NE-CZ-NH1	7.11	128.60	121.50
1	5l	71	GLU	CA-C-O	7.11	128.08	120.55
1	5E	41	SER	CA-C-N	7.11	130.51	120.28
1	5E	41	SER	C-N-CA	7.11	130.51	120.28
1	67	12	HIS	ND1-CE1-NE2	7.11	115.50	108.40
1	6g	26	VAL	N-CA-C	7.11	117.90	110.72
1	75	23	TRP	CB-CG-CD1	-7.11	116.24	126.90
1	7h	202	LEU	N-CA-C	7.11	118.67	111.07
1	7C	54	THR	CA-C-O	7.11	128.14	119.97
1	87	6	LEU	N-CA-C	7.11	125.94	110.80
1	8n	154	ARG	NE-CZ-NH2	7.11	125.60	119.20
1	8H	201	ILE	CA-C-O	7.11	128.70	121.17
1	98	212	GLU	N-CA-C	7.11	119.93	111.33
1	9I	10	MET	N-CA-C	7.11	119.91	110.53
1	9K	65	ALA	CA-C-N	7.11	129.80	120.28
1	9K	65	ALA	C-N-CA	7.11	129.80	120.28
1	9S	114	GLN	N-CA-C	7.11	120.06	111.82
1	a2	169	TYR	N-CA-CB	7.11	120.68	110.16
1	an	4	GLN	N-CA-C	7.11	121.05	111.24
1	aq	75	GLU	N-CA-C	7.11	119.64	111.11
1	as	132	ARG	N-CA-C	7.11	119.64	111.11
1	aV	162	ARG	O-C-N	7.11	129.65	122.12
1	15	91	ILE	CA-C-N	7.11	128.97	120.09
1	15	91	ILE	C-N-CA	7.11	128.97	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b0	152	ASP	N-CA-C	7.11	118.67	111.07
1	by	224	PRO	N-CA-CB	-7.11	95.79	103.25
1	1a	84	HIS	CA-C-O	-7.11	113.06	120.38
1	bS	83	LEU	O-C-N	7.11	129.76	122.09
1	bW	63	GLN	OE1-CD-NE2	-7.11	115.50	122.60
1	cd	71	GLU	CA-C-N	7.11	130.13	120.54
1	cd	71	GLU	C-N-CA	7.11	130.13	120.54
1	d2	227	LYS	CA-C-O	7.11	129.77	121.46
1	d3	101	GLY	CA-C-O	-7.11	112.73	120.40
1	dw	120	HIS	CE1-NE2-CD2	-7.11	101.89	109.00
1	ef	117	TRP	CB-CG-CD2	7.11	136.75	126.80
1	eh	200	THR	CA-C-N	7.11	129.51	120.56
1	eh	200	THR	C-N-CA	7.11	129.51	120.56
1	ez	3	VAL	O-C-N	-7.11	115.18	123.00
1	eD	18	ARG	NH1-CZ-NH2	-7.11	110.06	119.30
1	eW	130	TYR	N-CA-C	7.11	119.93	111.33
1	fp	183	ASN	O-C-N	-7.11	114.59	122.12
1	fJ	17	PRO	CA-C-N	7.11	129.80	120.28
1	fJ	17	PRO	C-N-CA	7.11	129.80	120.28
1	fW	84	HIS	CA-C-N	7.11	128.72	119.84
1	fW	84	HIS	C-N-CA	7.11	128.72	119.84
1	r	112	GLN	CA-C-N	7.11	129.80	120.28
1	r	112	GLN	C-N-CA	7.11	129.80	120.28
1	4	93	PRO	CA-C-O	-7.11	113.58	121.32
1	Q	20	LEU	N-CA-C	7.11	118.67	111.07
1	i6	84	HIS	CA-C-N	7.10	127.15	119.90
1	i6	84	HIS	C-N-CA	7.10	127.15	119.90
1	if	53	ASN	O-C-N	-7.10	114.59	122.12
1	jd	100	ARG	NE-CZ-NH2	-7.10	112.81	119.20
1	jl	81	ASP	N-CA-C	7.10	121.53	113.01
1	jt	103	ASP	CA-C-N	7.10	130.19	120.46
1	jt	103	ASP	C-N-CA	7.10	130.19	120.46
1	ld	209	ALA	O-C-N	-7.10	113.14	122.59
1	lv	196	PRO	N-CA-C	7.10	122.88	113.57
1	lI	93	PRO	N-CA-CB	7.10	110.71	103.25
1	lL	140	LYS	CA-C-O	7.10	128.08	120.55
1	2z	18	ARG	NE-CZ-NH2	7.10	125.59	119.20
1	34	171	THR	CA-C-N	7.10	130.38	120.29
1	34	171	THR	C-N-CA	7.10	130.38	120.29
1	3M	166	ASP	CA-C-N	7.10	129.68	120.44
1	3M	166	ASP	C-N-CA	7.10	129.68	120.44
1	5w	50	GLN	CA-C-O	7.10	128.28	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	60	138	LEU	CA-C-O	7.10	128.17	119.79
1	6Y	149	SER	CA-C-N	7.10	131.69	120.47
1	6Y	149	SER	C-N-CA	7.10	131.69	120.47
1	7c	162	ARG	CA-C-N	7.10	130.13	120.54
1	7c	162	ARG	C-N-CA	7.10	130.13	120.54
1	7h	69	LEU	CA-C-O	-7.10	113.02	120.55
1	81	149	SER	CA-C-N	7.10	130.55	120.53
1	81	149	SER	C-N-CA	7.10	130.55	120.53
1	88	204	ALA	N-CA-C	7.10	118.67	111.07
1	8x	56	LEU	N-CA-C	7.10	119.02	111.28
1	8T	212	GLU	CA-C-N	7.10	129.80	120.28
1	8T	212	GLU	C-N-CA	7.10	129.80	120.28
1	9M	117	TRP	N-CA-C	7.10	119.02	111.28
1	ai	82	ARG	N-CA-C	7.10	119.10	111.36
1	b9	84	HIS	CG-CD2-NE2	7.10	114.30	107.20
1	bE	73	ILE	CA-C-N	7.10	129.80	120.28
1	bE	73	ILE	C-N-CA	7.10	129.80	120.28
1	bE	81	ASP	CA-CB-CG	7.10	119.70	112.60
1	cd	141	ILE	CA-CB-CG2	7.10	122.58	110.50
1	dH	51	ASP	CA-C-N	7.10	129.68	120.44
1	dH	51	ASP	C-N-CA	7.10	129.68	120.44
1	dO	121	ASN	OD1-CG-ND2	-7.10	115.50	122.60
1	dQ	100	ARG	NE-CZ-NH2	-7.10	112.81	119.20
1	ex	33	SER	CA-C-N	7.10	127.09	119.28
1	ex	33	SER	C-N-CA	7.10	127.09	119.28
1	eB	80	TRP	N-CA-C	7.10	118.67	111.07
1	fg	148	THR	N-CA-CB	7.10	120.79	110.06
1	fk	33	SER	N-CA-CB	-7.10	103.97	111.29
1	fy	188	THR	CA-C-N	7.10	130.13	120.54
1	fy	188	THR	C-N-CA	7.10	130.13	120.54
1	fA	37	ILE	CA-C-N	7.10	126.59	118.85
1	fA	37	ILE	C-N-CA	7.10	126.59	118.85
1	g6	164	TYR	CA-C-N	7.10	129.51	120.56
1	g6	164	TYR	C-N-CA	7.10	129.51	120.56
1	F	130	TYR	CB-CG-CD2	-7.10	110.14	120.80
1	gJ	100	ARG	NH1-CZ-NH2	-7.10	110.07	119.30
1	hk	104	ILE	CA-C-O	7.10	128.17	120.57
1	hm	68	MET	CA-C-O	-7.10	112.96	120.63
1	hy	172	LEU	N-CA-C	7.10	120.06	111.82
1	ik	166	ASP	CA-CB-CG	-7.10	105.50	112.60
1	is	138	LEU	CA-C-N	7.10	130.13	120.54
1	is	138	LEU	C-N-CA	7.10	130.13	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iG	223	GLY	O-C-N	7.10	128.87	121.77
1	1S	226	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	iT	144	MET	N-CA-C	7.10	118.67	111.07
1	j5	54	THR	N-CA-CB	7.10	120.31	110.01
1	1V	171	THR	N-CA-C	7.10	118.67	111.07
1	kg	25	LYS	N-CA-C	7.10	119.02	111.28
1	kQ	83	LEU	N-CA-CB	7.10	120.31	110.01
1	lc	120	HIS	CA-C-O	-7.10	114.55	122.01
1	lJ	218	CYS	N-CA-C	7.10	120.25	108.96
1	37	86	VAL	O-C-N	-7.10	115.40	123.07
1	3p	50	GLN	CB-CA-C	-7.10	99.73	110.88
1	3N	203	LYS	N-CA-C	7.10	119.02	111.28
1	3X	211	LEU	O-C-N	-7.10	114.75	122.07
1	4A	178	SER	N-CA-C	7.10	119.73	110.43
1	4E	140	LYS	N-CA-C	7.10	118.67	111.07
1	4R	95	GLN	N-CA-C	7.10	120.01	110.35
1	5g	71	GLU	CA-C-O	-7.10	113.02	120.55
1	5H	53	ASN	CA-CB-CG	-7.10	105.50	112.60
1	5Y	84	HIS	CA-C-N	7.10	128.72	119.84
1	5Y	84	HIS	C-N-CA	7.10	128.72	119.84
1	63	12	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	6s	216	THR	O-C-N	-7.10	113.61	122.35
1	6Q	162	ARG	CA-C-N	7.10	129.80	120.28
1	6Q	162	ARG	C-N-CA	7.10	129.80	120.28
1	6T	193	ASN	OD1-CG-ND2	-7.10	115.50	122.60
1	79	33	SER	CA-C-O	-7.10	112.43	120.46
1	7Z	30	LYS	CA-C-N	7.10	135.10	121.54
1	7Z	30	LYS	C-N-CA	7.10	135.10	121.54
1	8f	192	GLN	N-CA-C	7.10	119.02	111.28
1	8K	161	PHE	CA-C-O	-7.10	112.89	120.42
1	9O	33	SER	N-CA-C	-7.10	98.95	108.11
1	9X	14	ALA	N-CA-CB	7.10	120.56	109.83
1	a2	191	VAL	N-CA-C	7.10	117.86	110.62
1	ab	33	SER	CA-C-O	-7.10	112.67	119.91
1	al	223	GLY	O-C-N	-7.10	114.67	121.77
1	12	161	PHE	CB-CG-CD2	7.10	132.78	120.70
1	aE	195	ASN	CA-CB-CG	7.10	119.70	112.60
1	aF	172	LEU	N-CA-C	7.10	118.67	111.07
1	aL	169	TYR	CA-C-N	7.10	129.67	120.44
1	aL	169	TYR	C-N-CA	7.10	129.67	120.44
1	bg	33	SER	O-C-N	-7.10	116.47	121.65
1	bx	28	GLU	CA-C-N	7.10	129.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	28	GLU	C-N-CA	7.10	129.80	120.28
1	cm	162	ARG	NE-CZ-NH2	-7.10	112.81	119.20
1	cr	100	ARG	NE-CZ-NH2	7.10	125.59	119.20
1	cv	149	SER	N-CA-C	7.10	120.01	110.35
1	cR	116	GLY	O-C-N	-7.10	115.36	122.18
1	dw	134	ILE	N-CA-C	7.10	117.86	110.62
1	dE	211	LEU	N-CA-C	7.10	120.06	111.82
1	1m	106	GLY	CA-C-O	7.10	126.66	119.27
1	dP	92	GLU	N-CA-C	7.10	119.71	109.84
1	1t	37	ILE	CA-C-O	-7.10	113.93	118.69
1	fo	226	HIS	ND1-CG-CD2	7.10	113.20	106.10
1	fR	79	GLU	O-C-N	-7.10	114.59	122.12
1	fU	176	GLN	CA-C-O	7.10	127.56	119.18
1	g0	3	VAL	CA-C-O	7.10	128.66	121.63
1	g0	14	ALA	CA-C-N	7.10	130.07	120.63
1	g0	14	ALA	C-N-CA	7.10	130.07	120.63
1	g1	52	LEU	N-CA-C	7.10	119.02	111.28
1	y	201	ILE	N-CA-C	7.10	117.24	110.42
1	C	228	ALA	N-CA-C	7.10	121.77	113.18
1	4	123	PRO	CA-C-N	-7.10	117.48	122.59
1	4	123	PRO	C-N-CA	-7.10	117.48	122.59
1	T	140	LYS	CA-C-N	7.10	129.51	120.56
1	T	140	LYS	C-N-CA	7.10	129.51	120.56
1	6	98	GLU	O-C-N	-7.10	113.47	121.43
1	gB	122	PRO	CA-C-N	7.10	128.72	119.84
1	gB	122	PRO	C-N-CA	7.10	128.72	119.84
1	gZ	77	ALA	N-CA-C	7.10	119.63	111.11
1	he	62	HIS	ND1-CG-CD2	7.10	113.20	106.10
1	jR	51	ASP	O-C-N	-7.10	114.59	122.12
1	ks	226	HIS	CG-CD2-NE2	7.10	114.30	107.20
1	kW	213	GLU	CA-C-N	7.10	129.80	120.28
1	kW	213	GLU	C-N-CA	7.10	129.80	120.28
1	lu	169	TYR	N-CA-C	7.10	119.02	111.28
1	2A	124	ILE	N-CA-C	-7.10	100.00	107.60
1	2P	226	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	3l	172	LEU	CA-C-O	7.10	128.14	119.97
1	3V	188	THR	CA-C-N	7.10	129.80	120.28
1	3V	188	THR	C-N-CA	7.10	129.80	120.28
1	4c	52	LEU	N-CA-C	7.10	119.02	111.28
1	4l	192	GLN	N-CA-C	7.10	119.92	111.33
1	5J	162	ARG	NE-CZ-NH1	-7.10	114.40	121.50
1	8p	179	GLN	CA-C-O	7.10	128.30	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Z	128	GLU	N-CA-C	7.10	119.02	111.28
1	8Z	223	GLY	CA-C-N	7.10	127.14	119.90
1	8Z	223	GLY	C-N-CA	7.10	127.14	119.90
1	ap	7	GLN	OE1-CD-NE2	-7.10	115.50	122.60
1	aK	97	ARG	NE-CZ-NH1	7.10	128.60	121.50
1	bh	99	PRO	CB-CA-C	7.10	120.58	111.56
1	do	209	ALA	O-C-N	-7.10	115.16	123.11
1	dJ	206	GLY	CA-C-N	7.10	128.72	119.84
1	dJ	206	GLY	C-N-CA	7.10	128.72	119.84
1	dL	124	ILE	N-CA-CB	-7.10	102.19	111.21
1	fC	12	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	A	13	GLN	CG-CD-NE2	-7.10	105.75	116.40
1	gp	92	GLU	CB-CA-C	7.10	120.70	109.27
1	gq	177	ALA	N-CA-C	7.10	119.47	110.24
1	hb	177	ALA	CA-C-N	7.10	131.47	120.75
1	hb	177	ALA	C-N-CA	7.10	131.47	120.75
1	hK	117	TRP	CA-C-N	7.10	132.58	120.72
1	hK	117	TRP	C-N-CA	7.10	132.58	120.72
1	i7	191	VAL	N-CA-C	-7.10	104.39	111.77
1	id	111	LEU	N-CA-C	7.10	119.92	111.33
1	ip	136	LEU	N-CA-C	7.10	119.10	111.36
1	km	26	VAL	CB-CA-C	7.10	118.19	111.44
1	ks	76	GLU	CA-C-N	7.10	129.79	120.28
1	ks	76	GLU	C-N-CA	7.10	129.79	120.28
1	ku	101	GLY	CA-C-O	7.10	127.69	120.45
1	lx	40	PHE	N-CA-C	7.10	118.67	111.07
1	lK	167	ARG	O-C-N	-7.10	114.59	122.12
1	2g	223	GLY	O-C-N	-7.10	114.67	121.77
1	2m	206	GLY	CA-C-N	7.10	127.13	119.89
1	2m	206	GLY	C-N-CA	7.10	127.13	119.89
1	2z	84	HIS	CA-C-N	7.10	128.72	119.84
1	2z	84	HIS	C-N-CA	7.10	128.72	119.84
1	2D	119	THR	N-CA-CB	7.10	121.28	110.28
1	3o	210	THR	N-CA-CB	7.10	120.48	110.04
1	41	12	HIS	CA-CB-CG	-7.10	106.70	113.80
1	47	178	SER	N-CA-C	7.10	119.14	110.41
1	5Q	167	ARG	NE-CZ-NH2	-7.10	112.81	119.20
1	7g	20	LEU	O-C-N	-7.10	114.59	122.12
1	8o	124	ILE	CB-CA-C	7.10	118.31	110.71
1	8p	63	GLN	OE1-CD-NE2	-7.10	115.50	122.60
1	8u	55	MET	N-CA-C	7.10	119.63	111.11
1	94	88	ALA	N-CA-C	7.10	125.92	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9s	68	MET	N-CA-CB	7.10	120.56	110.12
1	9H	57	ASN	CA-C-O	-7.10	113.37	120.82
1	9L	173	ARG	NH1-CZ-NH2	-7.10	110.07	119.30
1	aE	4	GLN	CA-C-N	7.10	129.79	120.28
1	aE	4	GLN	C-N-CA	7.10	129.79	120.28
1	aF	45	GLU	N-CA-C	7.10	120.95	110.30
1	bc	143	ARG	N-CA-C	7.10	119.02	111.28
1	17	50	GLN	N-CA-C	7.10	119.10	111.36
1	bB	105	ALA	CA-C-O	7.10	127.87	119.28
1	bY	5	ASN	N-CA-C	-7.10	104.77	113.50
1	cf	215	MET	O-C-N	-7.10	112.66	122.46
1	cz	33	SER	CA-C-O	-7.10	114.03	120.13
1	cT	110	THR	N-CA-C	-7.10	100.30	110.59
1	dt	137	GLY	CA-C-N	7.10	130.09	120.44
1	dt	137	GLY	C-N-CA	7.10	130.09	120.44
1	dW	178	SER	O-C-N	-7.10	114.30	122.68
1	1q	97	ARG	O-C-N	-7.10	113.15	122.59
1	1r	74	ASN	CA-C-N	7.10	130.37	120.29
1	1r	74	ASN	C-N-CA	7.10	130.37	120.29
1	eH	164	TYR	N-CA-C	7.10	119.10	111.36
1	f0	101	GLY	CA-C-N	7.10	130.50	120.28
1	f0	101	GLY	C-N-CA	7.10	130.50	120.28
1	f5	17	PRO	N-CA-C	-7.10	104.27	113.57
1	N	139	ASN	N-CA-C	7.10	119.02	111.28
1	go	154	ARG	NE-CZ-NH1	7.10	128.60	121.50
1	gq	154	ARG	NH1-CZ-NH2	-7.10	110.07	119.30
1	gx	22	ALA	CA-C-N	7.10	130.37	120.29
1	gx	22	ALA	C-N-CA	7.10	130.37	120.29
1	1G	40	PHE	N-CA-C	-7.10	103.62	111.36
1	h4	140	LYS	CA-C-N	7.10	130.18	120.46
1	h4	140	LYS	C-N-CA	7.10	130.18	120.46
1	hh	64	ALA	CA-C-O	7.10	128.27	120.82
1	i7	117	TRP	N-CA-C	7.10	118.67	111.07
1	ig	212	GLU	N-CA-C	7.10	119.02	111.28
1	in	208	ALA	CA-C-N	7.10	132.63	121.56
1	in	208	ALA	C-N-CA	7.10	132.63	121.56
1	jd	175	GLU	CB-CA-C	7.10	121.24	109.53
1	je	24	VAL	N-CA-C	7.10	117.89	110.72
1	jz	154	ARG	NE-CZ-NH2	7.10	125.59	119.20
1	jP	34	PRO	CA-C-N	7.10	131.96	120.60
1	jP	34	PRO	C-N-CA	7.10	131.96	120.60
1	k9	183	ASN	CA-CB-CG	-7.10	105.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kg	64	ALA	CA-C-N	7.10	130.09	120.44
1	kg	64	ALA	C-N-CA	7.10	130.09	120.44
1	kN	170	LYS	CA-C-N	7.10	130.09	120.44
1	kN	170	LYS	C-N-CA	7.10	130.09	120.44
1	l1	100	ARG	NE-CZ-NH2	7.10	125.59	119.20
1	ls	21	ASN	OD1-CG-ND2	-7.10	115.50	122.60
1	lH	149	SER	CA-C-O	7.10	129.01	120.92
1	2f	211	LEU	O-C-N	-7.10	113.54	122.27
1	2g	14	ALA	CA-C-N	7.10	130.78	120.91
1	2g	14	ALA	C-N-CA	7.10	130.78	120.91
1	2o	108	THR	O-C-N	-7.10	112.74	122.46
1	2w	204	ALA	CA-C-N	7.10	129.79	120.28
1	2w	204	ALA	C-N-CA	7.10	129.79	120.28
1	2G	195	ASN	CB-CA-C	7.10	120.56	109.42
1	36	135	ILE	CA-C-N	7.10	129.79	120.28
1	36	135	ILE	C-N-CA	7.10	129.79	120.28
1	3u	136	LEU	CA-C-O	7.10	128.07	120.55
1	3v	79	GLU	N-CA-C	7.10	118.66	111.07
1	3B	230	VAL	N-CA-C	7.10	118.26	108.89
1	3C	53	ASN	O-C-N	-7.10	113.92	122.22
1	3C	137	GLY	N-CA-C	7.10	121.25	112.73
1	4k	81	ASP	CA-C-O	-7.10	113.37	120.82
1	4y	37	ILE	CB-CA-C	-7.10	106.96	113.70
1	4O	180	GLU	O-C-N	-7.10	114.60	122.12
1	5B	115	ILE	CB-CA-C	7.10	121.06	111.97
1	6C	129	ILE	CA-CB-CG1	7.10	122.47	110.40
1	6O	115	ILE	O-C-N	-7.10	114.98	121.87
1	6O	220	GLY	CA-C-N	7.10	130.22	120.35
1	6O	220	GLY	C-N-CA	7.10	130.22	120.35
1	7k	25	LYS	O-C-N	-7.10	114.60	122.12
1	7y	144	MET	N-CA-C	7.10	121.77	113.18
1	7Z	180	GLU	CA-C-N	7.10	130.19	120.46
1	7Z	180	GLU	C-N-CA	7.10	130.19	120.46
1	8x	103	ASP	CA-CB-CG	7.10	119.70	112.60
1	8H	129	ILE	O-C-N	-7.10	114.98	121.87
1	8I	69	LEU	N-CA-C	7.10	119.02	111.28
1	9E	155	GLN	OE1-CD-NE2	-7.10	115.50	122.60
1	a8	170	LYS	O-C-N	-7.10	114.60	122.12
1	aP	118	MET	CA-CB-CG	7.10	128.30	114.10
1	aS	198	CYS	N-CA-C	7.10	118.67	111.07
1	aT	123	PRO	N-CA-CB	7.10	109.28	103.32
1	bm	62	HIS	ND1-CG-CD2	7.10	113.20	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c5	97	ARG	NE-CZ-NH1	7.10	128.60	121.50
1	cv	159	GLU	CA-C-N	7.10	128.51	120.85
1	cv	159	GLU	C-N-CA	7.10	128.51	120.85
1	cz	57	ASN	CA-CB-CG	7.10	119.70	112.60
1	cz	111	LEU	CA-C-O	7.10	128.07	120.55
1	cK	187	GLU	CA-C-O	7.10	128.11	119.31
1	ds	83	LEU	CA-C-O	7.10	128.27	120.82
1	dE	189	LEU	CA-C-N	7.10	130.66	120.79
1	dE	189	LEU	C-N-CA	7.10	130.66	120.79
1	fa	23	TRP	CG-CD2-CE3	7.10	141.00	133.90
1	fe	92	GLU	O-C-N	-7.10	113.99	121.30
1	fk	117	TRP	CA-C-N	7.10	132.57	120.72
1	fk	117	TRP	C-N-CA	7.10	132.57	120.72
1	fz	35	GLU	N-CA-C	7.10	121.04	112.38
1	fW	23	TRP	N-CA-C	7.10	119.02	111.28
1	fY	226	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
1	l	111	LEU	O-C-N	-7.10	113.54	122.27
1	gB	91	ILE	N-CA-C	7.10	117.86	110.62
1	gG	26	VAL	N-CA-CB	7.10	118.67	110.65
1	iG	41	SER	CA-C-O	7.10	128.13	119.97
1	k6	79	GLU	CA-C-N	7.10	129.66	120.44
1	k6	79	GLU	C-N-CA	7.10	129.66	120.44
1	lu	162	ARG	N-CA-C	7.10	119.92	111.33
1	2a	37	ILE	CA-C-N	7.10	126.62	119.24
1	2a	37	ILE	C-N-CA	7.10	126.62	119.24
1	36	119	THR	N-CA-C	-7.10	104.50	113.72
1	4K	45	GLU	N-CA-C	7.10	119.98	108.63
1	6o	89	GLY	CA-C-N	7.10	128.71	119.84
1	6o	89	GLY	C-N-CA	7.10	128.71	119.84
1	6p	9	GLN	CB-CA-C	-7.10	99.52	111.02
1	7C	82	ARG	CA-C-N	7.10	131.10	120.31
1	7C	82	ARG	C-N-CA	7.10	131.10	120.31
1	7F	146	SER	CB-CA-C	7.10	120.73	109.52
1	9a	159	GLU	O-C-N	-7.10	113.03	121.12
1	9f	135	ILE	N-CA-C	7.10	117.86	110.62
1	9O	166	ASP	N-CA-C	7.10	119.92	111.33
1	aX	29	GLU	N-CA-C	7.10	118.66	111.07
1	bo	203	LYS	O-C-N	-7.10	114.76	122.07
1	bw	14	ALA	N-CA-C	7.10	120.50	110.50
1	ca	225	GLY	CA-C-O	7.10	128.66	119.44
1	ce	128	GLU	O-C-N	-7.10	114.06	122.15
1	cQ	37	ILE	CA-C-N	7.10	127.41	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	37	ILE	C-N-CA	7.10	127.41	119.32
1	ff	173	ARG	N-CA-C	7.10	118.66	111.07
1	fs	55	MET	O-C-N	-7.10	114.60	122.12
1	g2	183	ASN	N-CA-C	7.10	118.66	111.07
1	gI	104	ILE	N-CA-C	7.09	117.86	110.62
1	h4	51	ASP	O-C-N	-7.09	113.01	122.23
1	hr	195	ASN	CA-CB-CG	-7.09	105.50	112.60
1	1M	86	VAL	N-CA-CB	7.09	119.50	110.99
1	i1	24	VAL	CA-C-N	7.09	129.79	120.28
1	i1	24	VAL	C-N-CA	7.09	129.79	120.28
1	iw	114	GLN	CA-C-N	7.09	129.50	120.56
1	iw	114	GLN	C-N-CA	7.09	129.50	120.56
1	kq	51	ASP	N-CA-C	7.09	118.66	111.07
1	kN	49	PRO	CA-C-N	7.09	129.79	120.28
1	kN	49	PRO	C-N-CA	7.09	129.79	120.28
1	l2	121	ASN	CA-CB-CG	-7.09	105.50	112.60
1	lb	204	ALA	N-CA-CB	-7.09	99.72	110.01
1	lE	199	LYS	CA-C-N	7.09	130.12	120.54
1	lE	199	LYS	C-N-CA	7.09	130.12	120.54
1	lF	101	GLY	N-CA-C	7.09	121.24	112.73
1	2n	226	HIS	CA-CB-CG	7.09	120.89	113.80
1	2D	98	GLU	O-C-N	-7.09	115.14	121.31
1	4t	62	HIS	ND1-CE1-NE2	7.09	115.49	108.40
1	5Y	126	VAL	N-CA-CB	7.09	119.34	110.47
1	64	57	ASN	OD1-CG-ND2	-7.09	115.50	122.60
1	7g	159	GLU	CA-C-O	-7.09	113.84	119.66
1	8s	100	ARG	CA-C-N	7.09	127.97	120.03
1	8s	100	ARG	C-N-CA	7.09	127.97	120.03
1	8v	74	ASN	OD1-CG-ND2	-7.09	115.50	122.60
1	8N	183	ASN	CA-CB-CG	-7.09	105.50	112.60
1	91	67	GLN	CA-C-N	7.09	130.37	120.29
1	91	67	GLN	C-N-CA	7.09	130.37	120.29
1	9m	4	GLN	O-C-N	-7.09	115.53	123.48
1	9m	180	GLU	CA-C-N	7.09	131.90	120.55
1	9m	180	GLU	C-N-CA	7.09	131.90	120.55
1	aa	201	ILE	CB-CA-C	-7.09	102.43	112.22
1	aB	55	MET	O-C-N	-7.09	114.60	122.12
1	aM	173	ARG	NE-CZ-NH2	7.09	125.58	119.20
1	aN	3	VAL	O-C-N	-7.09	115.52	123.18
1	aU	16	SER	CA-C-O	-7.09	112.59	120.25
1	bO	8	GLY	CA-C-N	7.09	129.78	120.28
1	bO	8	GLY	C-N-CA	7.09	129.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ci	87	HIS	CG-CD2-NE2	7.09	114.29	107.20
1	cZ	36	VAL	O-C-N	-7.09	114.99	121.87
1	d4	107	THR	N-CA-CB	7.09	121.28	110.28
1	dq	63	GLN	OE1-CD-NE2	-7.09	115.50	122.60
1	e0	27	VAL	CA-C-N	7.09	130.36	120.29
1	e0	27	VAL	C-N-CA	7.09	130.36	120.29
1	eS	143	ARG	N-CA-C	7.09	119.87	111.71
1	fc	213	GLU	CA-C-O	7.09	128.16	119.79
1	fn	130	TYR	CA-C-N	7.09	129.79	120.28
1	fn	130	TYR	C-N-CA	7.09	129.79	120.28
1	fP	12	HIS	N-CA-C	7.09	120.78	110.28
1	j	197	ASP	N-CA-C	7.09	119.62	111.11
1	L	148	THR	CA-CB-OG1	7.09	120.24	109.60
1	gq	221	VAL	CA-C-O	7.09	127.73	119.36
1	gw	106	GLY	CA-C-N	7.09	129.78	120.28
1	gw	106	GLY	C-N-CA	7.09	129.78	120.28
1	gK	193	ASN	CB-CG-ND2	-7.09	105.76	116.40
1	1I	67	GLN	CA-C-N	7.09	129.78	120.28
1	1I	67	GLN	C-N-CA	7.09	129.78	120.28
1	hi	10	MET	CG-SD-CE	-7.09	85.30	100.90
1	hR	182	LYS	N-CA-C	-7.09	103.29	112.23
1	ii	125	PRO	CB-CA-C	7.09	123.26	111.56
1	il	103	ASP	N-CA-C	7.09	119.09	111.36
1	ja	223	GLY	CA-C-N	7.09	128.71	119.84
1	ja	223	GLY	C-N-CA	7.09	128.71	119.84
1	jD	204	ALA	N-CA-C	7.09	119.01	111.28
1	jY	89	GLY	CA-C-N	7.09	128.71	119.84
1	jY	89	GLY	C-N-CA	7.09	128.71	119.84
1	3r	30	LYS	CA-C-N	7.09	135.09	121.54
1	3r	30	LYS	C-N-CA	7.09	135.09	121.54
1	4a	21	ASN	O-C-N	-7.09	114.76	122.07
1	52	92	GLU	O-C-N	-7.09	114.99	121.30
1	6y	18	ARG	CA-C-O	-7.09	113.39	120.70
1	8U	62	HIS	CB-CG-CD2	-7.09	121.98	131.20
1	9n	80	TRP	N-CA-C	7.09	118.66	111.07
1	ba	207	PRO	CA-C-N	7.09	133.63	122.49
1	ba	207	PRO	C-N-CA	7.09	133.63	122.49
1	cc	26	VAL	N-CA-C	7.09	117.61	110.23
1	cN	189	LEU	N-CA-C	7.09	119.01	111.28
1	dc	204	ALA	N-CA-C	7.09	119.01	111.28
1	e4	3	VAL	O-C-N	-7.09	115.41	123.07
1	eW	15	ILE	N-CA-C	7.09	119.84	109.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	159	GLU	O-C-N	-7.09	114.99	121.30
1	fp	206	GLY	O-C-N	-7.09	114.68	121.77
1	fN	17	PRO	N-CA-C	-7.09	104.99	113.86
1	g7	197	ASP	CA-C-O	7.09	128.27	120.82
1	q	51	ASP	CA-C-N	7.09	130.09	120.44
1	q	51	ASP	C-N-CA	7.09	130.09	120.44
1	go	207	PRO	CA-C-N	7.09	129.78	120.28
1	go	207	PRO	C-N-CA	7.09	129.78	120.28
1	gv	168	PHE	CA-C-O	7.09	128.27	120.82
1	gy	124	ILE	N-CA-C	-7.09	99.83	107.77
1	h7	140	LYS	CA-C-N	7.09	129.50	120.56
1	h7	140	LYS	C-N-CA	7.09	129.50	120.56
1	hW	167	ARG	NE-CZ-NH2	-7.09	112.82	119.20
1	ic	48	THR	CA-C-O	-7.09	112.94	120.88
1	if	62	HIS	ND1-CE1-NE2	7.09	115.49	108.40
1	iM	21	ASN	OD1-CG-ND2	-7.09	115.51	122.60
1	iN	198	CYS	N-CA-C	7.09	118.66	111.07
1	ju	164	TYR	CA-C-N	7.09	130.18	120.46
1	ju	164	TYR	C-N-CA	7.09	130.18	120.46
1	jS	10	MET	N-CA-C	7.09	120.67	110.10
1	jY	40	PHE	CA-CB-CG	-7.09	106.71	113.80
1	kU	202	LEU	CA-C-O	7.09	128.27	120.82
1	kY	199	LYS	N-CA-C	7.09	119.01	111.28
1	kZ	67	GLN	N-CA-C	7.09	119.01	111.28
1	l6	190	LEU	N-CA-C	7.09	118.66	111.07
1	26	49	PRO	N-CA-C	7.09	123.22	113.65
1	l9	16	SER	CA-C-O	-7.09	113.34	120.64
1	ld	41	SER	CA-C-N	7.09	130.49	120.28
1	ld	41	SER	C-N-CA	7.09	130.49	120.28
1	3c	189	LEU	O-C-N	7.09	129.64	122.12
1	3N	118	MET	N-CA-C	7.09	121.93	113.28
1	3Z	226	HIS	CA-CB-CG	-7.09	106.71	113.80
1	4j	199	LYS	N-CA-C	7.09	118.66	111.07
1	4B	35	GLU	CA-C-N	7.09	130.17	120.46
1	4B	35	GLU	C-N-CA	7.09	130.17	120.46
1	5d	55	MET	N-CA-C	7.09	118.66	111.07
1	5K	125	PRO	N-CA-CB	-7.09	95.80	103.25
1	69	133	TRP	N-CA-CB	7.09	120.55	110.12
1	72	53	ASN	N-CA-C	7.09	119.01	111.28
1	7w	166	ASP	N-CA-C	7.09	119.01	111.28
1	7H	79	GLU	O-C-N	-7.09	114.60	122.12
1	80	129	ILE	N-CA-C	7.09	117.85	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8y	130	TYR	N-CA-C	7.09	119.87	111.71
1	8J	87	HIS	CA-CB-CG	7.09	120.89	113.80
1	8S	209	ALA	N-CA-CB	7.09	120.11	109.19
1	9r	36	VAL	CA-C-N	7.09	124.71	120.24
1	9r	36	VAL	C-N-CA	7.09	124.71	120.24
1	9Q	49	PRO	CA-C-N	7.09	130.12	120.54
1	9Q	49	PRO	C-N-CA	7.09	130.12	120.54
1	9Y	40	PHE	CA-CB-CG	7.09	120.89	113.80
1	b0	71	GLU	N-CA-CB	7.09	120.54	110.12
1	bE	84	HIS	ND1-CE1-NE2	7.09	115.49	108.40
1	bN	4	GLN	OE1-CD-NE2	-7.09	115.51	122.60
1	bY	204	ALA	N-CA-C	7.09	119.62	111.11
1	db	139	ASN	O-C-N	-7.09	114.77	122.07
1	dl	25	LYS	CA-C-O	-7.09	112.90	120.42
1	dC	119	THR	N-CA-C	-7.09	103.30	112.23
1	dJ	177	ALA	CA-C-N	7.09	130.88	120.95
1	dJ	177	ALA	C-N-CA	7.09	130.88	120.95
1	e9	68	MET	CA-C-N	7.09	129.66	120.44
1	e9	68	MET	C-N-CA	7.09	129.66	120.44
1	eg	3	VAL	CA-C-O	7.09	127.77	120.39
1	ep	164	TYR	CA-C-N	7.09	130.18	120.46
1	ep	164	TYR	C-N-CA	7.09	130.18	120.46
1	eI	58	THR	N-CA-C	-7.09	104.23	113.17
1	fn	37	ILE	N-CA-CB	7.09	115.98	110.45
1	fs	14	ALA	N-CA-C	7.09	120.50	110.50
1	1z	62	HIS	CE1-NE2-CD2	-7.09	101.91	109.00
1	d	220	GLY	O-C-N	-7.09	115.18	122.70
1	1	172	LEU	CA-C-N	7.09	129.66	120.44
1	1	172	LEU	C-N-CA	7.09	129.66	120.44
1	o	97	ARG	NE-CZ-NH1	7.09	128.59	121.50
1	D	74	ASN	CA-CB-CG	7.09	119.69	112.60
1	ge	9	GLN	O-C-N	-7.09	113.00	122.22
1	gl	87	HIS	N-CA-C	7.09	119.46	110.24
1	gF	13	GLN	OE1-CD-NE2	7.09	129.69	122.60
1	hY	133	TRP	N-CA-C	7.09	119.01	111.28
1	i8	3	VAL	CB-CA-C	7.09	120.84	110.77
1	jb	177	ALA	CA-C-N	7.09	131.45	120.75
1	jb	177	ALA	C-N-CA	7.09	131.45	120.75
1	jB	125	PRO	N-CA-CB	-7.09	96.83	102.36
1	jR	82	ARG	NH1-CZ-NH2	-7.09	110.08	119.30
1	k5	205	LEU	N-CA-C	-7.09	104.20	112.92
1	kv	211	LEU	N-CA-C	7.09	121.19	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	219	GLN	CA-C-N	7.09	127.85	119.98
1	kD	219	GLN	C-N-CA	7.09	127.85	119.98
1	kF	105	ALA	N-CA-C	7.09	120.04	111.82
1	2r	74	ASN	OD1-CG-ND2	-7.09	115.51	122.60
1	2x	107	THR	O-C-N	-7.09	113.90	122.48
1	4F	39	MET	CA-C-N	7.09	129.78	120.28
1	4F	39	MET	C-N-CA	7.09	129.78	120.28
1	4L	119	THR	CA-CB-CG2	7.09	122.55	110.50
1	4X	97	ARG	CA-C-N	7.09	130.25	120.39
1	4X	97	ARG	C-N-CA	7.09	130.25	120.39
1	5x	9	GLN	OE1-CD-NE2	-7.09	115.51	122.60
1	6u	75	GLU	N-CA-C	7.09	119.01	111.28
1	6E	71	GLU	CA-C-O	-7.09	112.09	120.10
1	7w	43	LEU	N-CA-CB	-7.09	98.84	110.40
1	81	195	ASN	CA-CB-CG	7.09	119.69	112.60
1	8s	123	PRO	N-CA-C	7.09	122.82	111.26
1	9k	45	GLU	CA-C-O	7.09	129.00	120.92
1	9m	122	PRO	CA-C-N	7.09	127.05	120.03
1	9m	122	PRO	C-N-CA	7.09	127.05	120.03
1	9Z	112	GLN	CA-C-N	7.09	130.11	120.54
1	9Z	112	GLN	C-N-CA	7.09	130.11	120.54
1	Z	53	ASN	N-CA-C	7.09	119.01	111.28
1	a1	92	GLU	N-CA-C	7.09	121.98	109.58
1	ab	139	ASN	CA-C-N	7.09	129.66	120.44
1	ab	139	ASN	C-N-CA	7.09	129.66	120.44
1	aF	77	ALA	CA-C-N	7.09	130.36	120.29
1	aF	77	ALA	C-N-CA	7.09	130.36	120.29
1	c9	212	GLU	N-CA-CB	7.09	120.29	110.01
1	cr	165	VAL	O-C-N	-7.09	114.96	121.91
1	cC	64	ALA	N-CA-C	7.09	118.66	111.07
1	cV	15	ILE	CA-C-O	7.09	129.16	121.36
1	cW	82	ARG	NE-CZ-NH1	7.09	128.59	121.50
1	dn	120	HIS	CG-CD2-NE2	7.09	114.29	107.20
1	ei	143	ARG	NE-CZ-NH2	-7.09	112.82	119.20
1	eD	122	PRO	CA-C-N	7.09	127.13	119.90
1	eD	122	PRO	C-N-CA	7.09	127.13	119.90
1	eL	47	ALA	O-C-N	-7.09	114.75	123.04
1	fg	59	VAL	O-C-N	-7.09	115.11	122.63
1	fj	96	MET	N-CA-C	7.09	120.28	110.35
1	fy	160	PRO	N-CA-C	7.09	122.38	111.11
1	fH	229	ARG	NH1-CZ-NH2	-7.09	110.08	119.30
1	g3	127	GLY	CA-C-N	7.09	130.36	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	127	GLY	C-N-CA	7.09	130.36	120.29
1	G	18	ARG	NE-CZ-NH1	-7.09	114.41	121.50
1	I	164	TYR	N-CA-C	7.09	118.80	111.14
1	W	183	ASN	CB-CG-ND2	7.09	127.03	116.40
1	i0	25	LYS	O-C-N	-7.09	114.61	122.12
1	1X	110	THR	CA-C-N	7.09	130.09	120.38
1	1X	110	THR	C-N-CA	7.09	130.09	120.38
1	kC	19	THR	N-CA-C	7.09	119.01	111.28
1	lR	165	VAL	CA-C-N	7.09	130.35	120.29
1	lR	165	VAL	C-N-CA	7.09	130.35	120.29
1	2Q	27	VAL	O-C-N	-7.09	115.00	121.87
1	4H	51	ASP	O-C-N	7.09	129.63	122.12
1	4N	168	PHE	CA-CB-CG	-7.09	106.71	113.80
1	5s	87	HIS	CE1-NE2-CD2	-7.09	101.91	109.00
1	5E	43	LEU	CA-C-O	7.09	128.10	119.38
1	6o	215	MET	CA-C-O	7.09	128.26	119.05
1	7k	152	ASP	CA-CB-CG	-7.09	105.51	112.60
1	7n	207	PRO	N-CA-CB	-7.09	95.81	103.25
1	7Z	166	ASP	O-C-N	-7.09	114.77	122.07
1	85	183	ASN	CA-CB-CG	7.09	119.69	112.60
1	8c	77	ALA	CA-C-O	7.09	128.12	119.97
1	8m	124	ILE	N-CA-CB	7.09	120.01	111.08
1	11	135	ILE	N-CA-C	7.09	117.80	110.36
1	ar	195	ASN	CA-CB-CG	7.09	119.69	112.60
1	ba	51	ASP	CA-CB-CG	7.09	119.69	112.60
1	c5	216	THR	CA-CB-OG1	7.09	120.23	109.60
1	1h	192	GLN	N-CA-C	7.09	119.01	111.28
1	1i	212	GLU	CA-C-N	7.09	129.66	120.44
1	1i	212	GLU	C-N-CA	7.09	129.66	120.44
1	dr	195	ASN	N-CA-C	7.09	118.29	109.57
1	en	139	ASN	CA-CB-CG	-7.09	105.51	112.60
1	f4	191	VAL	CA-C-N	7.09	130.11	120.54
1	f4	191	VAL	C-N-CA	7.09	130.11	120.54
1	g1	64	ALA	N-CA-C	7.09	119.86	111.71
1	y	143	ARG	O-C-N	-7.09	114.77	122.07
1	B	5	ASN	CA-CB-CG	7.09	119.69	112.60
1	gR	164	TYR	CA-C-N	7.09	129.49	120.56
1	gR	164	TYR	C-N-CA	7.09	129.49	120.56
1	hH	132	ARG	NE-CZ-NH2	7.09	125.58	119.20
1	1L	103	ASP	CA-CB-CG	7.09	119.69	112.60
1	1O	12	HIS	ND1-CE1-NE2	7.09	115.49	108.40
1	ig	207	PRO	N-CA-CB	7.09	107.56	102.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	io	37	ILE	CA-C-N	7.09	126.70	119.19
1	io	37	ILE	C-N-CA	7.09	126.70	119.19
1	iL	126	VAL	N-CA-C	7.09	117.85	110.62
1	iZ	177	ALA	N-CA-CB	-7.09	100.24	110.80
1	1T	116	GLY	CA-C-O	7.09	128.05	120.75
1	jm	200	THR	CA-C-N	7.09	130.17	120.46
1	jm	200	THR	C-N-CA	7.09	130.17	120.46
1	jw	72	THR	CA-C-N	7.09	129.56	120.70
1	jw	72	THR	C-N-CA	7.09	129.56	120.70
1	ka	139	ASN	CA-C-O	-7.09	113.04	120.55
1	kr	42	ALA	CA-C-N	7.09	129.65	120.44
1	kr	42	ALA	C-N-CA	7.09	129.65	120.44
1	ks	211	LEU	CA-C-O	-7.09	113.04	120.55
1	kw	64	ALA	O-C-N	-7.09	114.07	122.15
1	kM	167	ARG	NE-CZ-NH1	-7.09	114.41	121.50
1	l7	67	GLN	CA-C-N	7.09	130.35	120.29
1	l7	67	GLN	C-N-CA	7.09	130.35	120.29
1	l8	161	PHE	CA-CB-CG	7.09	120.89	113.80
1	lI	180	GLU	N-CA-C	7.09	119.08	111.36
1	2g	218	CYS	CA-C-N	7.09	130.49	120.28
1	2g	218	CYS	C-N-CA	7.09	130.49	120.28
1	3a	110	THR	CA-CB-OG1	7.09	120.23	109.60
1	48	193	ASN	CA-C-N	7.09	133.87	120.97
1	48	193	ASN	C-N-CA	7.09	133.87	120.97
1	4H	126	VAL	O-C-N	-7.09	114.94	121.89
1	5L	156	GLY	O-C-N	-7.09	114.68	121.77
1	60	26	VAL	N-CA-C	7.09	117.22	110.42
1	67	112	GLN	N-CA-C	7.09	119.00	111.28
1	6l	18	ARG	NE-CZ-NH2	-7.09	112.82	119.20
1	7K	166	ASP	CA-CB-CG	7.09	119.69	112.60
1	8E	143	ARG	CA-C-N	7.09	130.49	120.28
1	8E	143	ARG	C-N-CA	7.09	130.49	120.28
1	9Q	22	ALA	CA-C-N	7.09	129.78	120.28
1	9Q	22	ALA	C-N-CA	7.09	129.78	120.28
1	a8	87	HIS	CA-CB-CG	-7.09	106.71	113.80
1	cw	162	ARG	NH1-CZ-NH2	-7.09	110.09	119.30
1	dl	21	ASN	OD1-CG-ND2	-7.09	115.51	122.60
1	1l	9	GLN	N-CA-C	7.09	121.11	109.06
1	dH	95	GLN	CA-C-N	7.09	131.24	120.82
1	dH	95	GLN	C-N-CA	7.09	131.24	120.82
1	dS	33	SER	N-CA-C	-7.09	100.03	108.25
1	e9	101	GLY	CA-C-N	7.09	129.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	101	GLY	C-N-CA	7.09	129.78	120.28
1	eb	97	ARG	O-C-N	-7.09	114.16	122.87
1	eB	101	GLY	CA-C-N	7.09	130.48	120.28
1	eB	101	GLY	C-N-CA	7.09	130.48	120.28
1	eP	126	VAL	N-CA-C	7.09	119.95	111.09
1	eS	9	GLN	O-C-N	-7.09	114.21	123.21
1	fc	85	PRO	N-CA-C	7.09	122.19	111.14
1	1z	80	TRP	O-C-N	-7.09	114.61	122.12
1	g0	142	VAL	CA-C-N	7.09	130.11	120.54
1	g0	142	VAL	C-N-CA	7.09	130.11	120.54
1	g3	154	ARG	N-CA-C	7.09	119.52	108.96
1	g4	73	ILE	N-CA-CB	7.09	120.18	110.54
1	h	195	ASN	O-C-N	-7.09	113.49	121.43
1	v	102	SER	N-CA-C	7.09	120.04	111.82
1	E	192	GLN	N-CA-C	7.09	119.00	111.28
1	F	210	THR	CA-C-N	7.09	129.78	120.28
1	F	210	THR	C-N-CA	7.09	129.78	120.28
1	hu	160	PRO	CB-CA-C	-7.08	102.32	111.39
1	hU	136	LEU	N-CA-C	7.08	119.00	111.28
1	iA	154	ARG	NE-CZ-NH2	7.08	125.58	119.20
1	jq	219	GLN	N-CA-C	7.08	120.80	112.72
1	js	95	GLN	N-CA-CB	7.08	121.98	110.43
1	kr	181	VAL	N-CA-C	7.08	117.85	110.62
1	38	225	GLY	CA-C-N	7.08	133.09	122.68
1	38	225	GLY	C-N-CA	7.08	133.09	122.68
1	3S	129	ILE	N-CA-C	7.08	117.22	110.42
1	4l	197	ASP	CA-CB-CG	7.08	119.69	112.60
1	6e	166	ASP	CA-C-N	7.08	129.65	120.44
1	6e	166	ASP	C-N-CA	7.08	129.65	120.44
1	8q	173	ARG	NE-CZ-NH2	-7.08	112.82	119.20
1	9G	198	CYS	CA-C-N	7.08	130.09	120.38
1	9G	198	CYS	C-N-CA	7.08	130.09	120.38
1	cm	21	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	1k	11	VAL	O-C-N	-7.08	115.30	122.67
1	e3	89	GLY	O-C-N	-7.08	114.69	121.77
1	ep	10	MET	CG-SD-CE	-7.08	85.31	100.90
1	d	41	SER	CA-C-N	7.08	131.08	120.31
1	d	41	SER	C-N-CA	7.08	131.08	120.31
1	gw	87	HIS	CG-CD2-NE2	7.08	114.28	107.20
1	gw	195	ASN	CA-CB-CG	7.08	119.68	112.60
1	gC	162	ARG	N-CA-C	7.08	119.00	111.28
1	1G	162	ARG	NE-CZ-NH2	-7.08	112.83	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h1	67	GLN	O-C-N	-7.08	114.77	122.07
1	hP	160	PRO	CA-C-N	7.08	129.65	120.44
1	hP	160	PRO	C-N-CA	7.08	129.65	120.44
1	ix	93	PRO	N-CA-CB	7.08	110.69	103.25
1	jl	225	GLY	O-C-N	-7.08	116.04	122.77
1	jI	230	VAL	CA-C-O	7.08	126.79	119.35
1	l0	26	VAL	N-CA-C	7.08	117.87	110.72
1	l5	48	THR	CA-C-O	-7.08	112.95	120.88
1	l7	97	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	ls	67	GLN	OE1-CD-NE2	-7.08	115.52	122.60
1	2x	55	MET	N-CA-C	7.08	118.65	111.07
1	2S	27	VAL	N-CA-CB	7.08	118.84	110.55
1	2U	126	VAL	CA-C-N	7.08	129.27	120.34
1	2U	126	VAL	C-N-CA	7.08	129.27	120.34
1	38	193	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	3i	142	VAL	CA-C-O	7.08	128.36	120.85
1	3m	54	THR	N-CA-C	7.08	119.90	111.33
1	41	21	ASN	CA-C-N	7.08	130.48	120.28
1	41	21	ASN	C-N-CA	7.08	130.48	120.28
1	4H	184	TRP	N-CA-C	7.08	119.00	111.28
1	4S	177	ALA	CA-C-O	7.08	130.64	120.51
1	5q	154	ARG	O-C-N	-7.08	114.90	123.19
1	5r	44	SER	O-C-N	-7.08	111.08	122.41
1	5K	228	ALA	N-CA-C	7.08	118.97	110.19
1	5V	26	VAL	CA-C-N	7.08	130.52	120.53
1	5V	26	VAL	C-N-CA	7.08	130.52	120.53
1	64	25	LYS	CA-C-N	7.08	129.74	120.60
1	64	25	LYS	C-N-CA	7.08	129.74	120.60
1	6k	184	TRP	N-CA-C	7.08	119.90	111.33
1	6J	212	GLU	O-C-N	-7.08	114.61	122.12
1	6R	81	ASP	CA-CB-CG	7.08	119.68	112.60
1	7g	63	GLN	N-CA-C	7.08	118.79	111.14
1	7t	39	MET	N-CA-C	7.08	119.00	111.28
1	7F	135	ILE	O-C-N	-7.08	114.72	121.87
1	8T	230	VAL	N-CA-C	7.08	118.58	109.30
1	8V	104	ILE	CA-C-O	7.08	128.32	120.95
1	94	175	GLU	CB-CG-CD	7.08	124.64	112.60
1	9d	54	THR	CA-C-N	7.08	129.65	120.44
1	9d	54	THR	C-N-CA	7.08	129.65	120.44
1	9d	76	GLU	CA-C-N	7.08	129.77	120.28
1	9d	76	GLU	C-N-CA	7.08	129.77	120.28
1	ag	21	ASN	CB-CG-ND2	7.08	127.02	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ap	126	VAL	CA-C-N	7.08	127.84	119.98
1	ap	126	VAL	C-N-CA	7.08	127.84	119.98
1	aL	180	GLU	N-CA-C	7.08	119.00	111.28
1	16	112	GLN	CA-C-N	7.08	129.77	120.28
1	16	112	GLN	C-N-CA	7.08	129.77	120.28
1	bJ	20	LEU	O-C-N	-7.08	114.72	122.09
1	cZ	37	ILE	O-C-N	-7.08	115.89	120.42
1	di	48	THR	N-CA-CB	7.08	119.56	109.78
1	dA	219	GLN	OE1-CD-NE2	-7.08	115.52	122.60
1	dJ	208	ALA	N-CA-C	-7.08	103.68	114.16
1	ef	4	GLN	CB-CG-CD	7.08	124.64	112.60
1	ef	199	LYS	CA-C-O	-7.08	113.04	120.55
1	eD	115	ILE	CA-C-N	7.08	127.99	119.99
1	eD	115	ILE	C-N-CA	7.08	127.99	119.99
1	eE	52	LEU	O-C-N	-7.08	113.56	122.27
1	eR	22	ALA	N-CA-C	7.08	119.00	111.28
1	fp	48	THR	CA-C-N	7.08	128.70	119.84
1	fp	48	THR	C-N-CA	7.08	128.70	119.84
1	fH	132	ARG	CA-C-N	7.08	130.10	120.54
1	fH	132	ARG	C-N-CA	7.08	130.10	120.54
1	a	215	MET	N-CA-C	7.08	118.65	111.07
1	o	226	HIS	CE1-NE2-CD2	-7.08	101.92	109.00
1	ga	182	LYS	CA-C-O	7.08	128.10	120.10
1	gp	84	HIS	CA-C-N	7.08	127.08	119.78
1	gp	84	HIS	C-N-CA	7.08	127.08	119.78
1	gv	81	ASP	CA-CB-CG	-7.08	105.52	112.60
1	1G	226	HIS	CE1-NE2-CD2	-7.08	101.92	109.00
1	gY	130	TYR	O-C-N	-7.08	114.44	122.09
1	1J	32	PHE	CA-CB-CG	-7.08	106.72	113.80
1	hM	202	LEU	N-CA-C	7.08	119.00	111.28
1	hN	193	ASN	CA-C-N	7.08	131.23	120.82
1	hN	193	ASN	C-N-CA	7.08	131.23	120.82
1	i6	15	ILE	CA-C-N	7.08	131.43	120.60
1	i6	15	ILE	C-N-CA	7.08	131.43	120.60
1	ja	205	LEU	CA-C-O	7.08	128.09	119.31
1	jq	103	ASP	CA-C-N	7.08	130.16	120.46
1	jq	103	ASP	C-N-CA	7.08	130.16	120.46
1	jx	44	SER	CA-C-N	7.08	130.08	120.38
1	jx	44	SER	C-N-CA	7.08	130.08	120.38
1	k6	87	HIS	ND1-CE1-NE2	7.08	115.48	108.40
1	k9	89	GLY	O-C-N	-7.08	114.69	121.77
1	km	97	ARG	NE-CZ-NH1	-7.08	114.42	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kJ	137	GLY	CA-C-N	7.08	129.65	120.44
1	kJ	137	GLY	C-N-CA	7.08	129.65	120.44
1	kN	199	LYS	O-C-N	-7.08	114.08	122.15
1	l6	15	ILE	N-CA-CB	7.08	118.63	110.49
1	le	184	TRP	CA-C-N	7.08	129.65	120.44
1	le	184	TRP	C-N-CA	7.08	129.65	120.44
1	32	59	VAL	CA-C-N	7.08	129.06	120.92
1	32	59	VAL	C-N-CA	7.08	129.06	120.92
1	3y	78	ALA	N-CA-C	7.08	119.00	111.28
1	3G	156	GLY	CA-C-N	7.08	126.61	119.24
1	3G	156	GLY	C-N-CA	7.08	126.61	119.24
1	3J	69	LEU	N-CA-C	7.08	118.65	111.07
1	4O	154	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	5P	201	ILE	N-CA-CB	7.08	118.83	110.55
1	60	172	LEU	N-CA-C	7.08	119.00	111.28
1	61	139	ASN	O-C-N	-7.08	114.61	122.12
1	6S	37	ILE	N-CA-CB	-7.08	106.04	110.50
1	81	88	ALA	CA-C-N	7.08	132.99	121.87
1	81	88	ALA	C-N-CA	7.08	132.99	121.87
1	8p	202	LEU	CA-C-O	7.08	128.06	120.55
1	8H	193	ASN	N-CA-C	-7.08	103.95	112.59
1	9d	149	SER	CA-C-N	7.08	130.16	120.46
1	9d	149	SER	C-N-CA	7.08	130.16	120.46
1	9f	125	PRO	CA-C-N	7.08	130.16	120.46
1	9f	125	PRO	C-N-CA	7.08	130.16	120.46
1	9h	112	GLN	N-CA-C	7.08	118.65	111.07
1	9r	196	PRO	CA-C-N	7.08	129.77	120.28
1	9r	196	PRO	C-N-CA	7.08	129.77	120.28
1	9A	127	GLY	CA-C-N	7.08	129.65	120.44
1	9A	127	GLY	C-N-CA	7.08	129.65	120.44
1	9Y	199	LYS	N-CA-C	7.08	119.00	111.28
1	aj	216	THR	CA-C-N	7.08	130.76	120.71
1	aj	216	THR	C-N-CA	7.08	130.76	120.71
1	b7	225	GLY	CA-C-N	7.08	129.77	120.28
1	b7	225	GLY	C-N-CA	7.08	129.77	120.28
1	bf	225	GLY	CA-C-N	7.08	135.07	121.54
1	bf	225	GLY	C-N-CA	7.08	135.07	121.54
1	bi	5	ASN	CA-CB-CG	-7.08	105.52	112.60
1	bl	120	HIS	CE1-NE2-CD2	-7.08	101.92	109.00
1	c9	191	VAL	CA-C-N	7.08	129.77	120.28
1	c9	191	VAL	C-N-CA	7.08	129.77	120.28
1	cm	87	HIS	CE1-NE2-CD2	-7.08	101.92	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cu	154	ARG	NE-CZ-NH2	7.08	125.57	119.20
1	cv	48	THR	N-CA-C	-7.08	101.99	110.13
1	cO	201	ILE	N-CA-C	-7.08	103.62	110.42
1	cR	178	SER	N-CA-C	7.08	120.23	110.24
1	di	191	VAL	CA-C-N	7.08	129.65	120.44
1	di	191	VAL	C-N-CA	7.08	129.65	120.44
1	dW	196	PRO	N-CA-C	-7.08	104.29	113.57
1	e0	187	GLU	CA-C-O	7.08	128.48	120.90
1	e8	150	ILE	CA-C-N	7.08	129.65	120.44
1	e8	150	ILE	C-N-CA	7.08	129.65	120.44
1	eo	33	SER	CA-C-N	7.08	126.78	119.56
1	eo	33	SER	C-N-CA	7.08	126.78	119.56
1	eo	55	MET	N-CA-C	7.08	118.65	111.07
1	eR	126	VAL	CA-C-N	7.08	127.66	119.94
1	eR	126	VAL	C-N-CA	7.08	127.66	119.94
1	eX	53	ASN	CA-CB-CG	-7.08	105.52	112.60
1	1u	33	SER	O-C-N	-7.08	115.27	121.71
1	fo	229	ARG	N-CA-C	-7.08	98.26	108.60
1	r	183	ASN	CA-CB-CG	-7.08	105.52	112.60
1	x	132	ARG	NE-CZ-NH2	-7.08	112.83	119.20
1	h3	138	LEU	N-CA-C	7.08	119.08	111.36
1	ip	34	PRO	N-CA-C	-7.08	105.50	114.35
1	iv	56	LEU	CA-C-O	7.08	128.25	120.82
1	1V	8	GLY	N-CA-C	-7.08	105.29	115.27
1	js	92	GLU	O-C-N	-7.08	116.03	121.55
1	jQ	135	ILE	CB-CA-C	7.08	121.70	112.14
1	k5	79	GLU	CA-C-O	7.08	128.25	120.82
1	2Y	35	GLU	O-C-N	-7.08	113.94	122.22
1	3g	33	SER	CA-C-N	7.08	128.69	119.84
1	3g	33	SER	C-N-CA	7.08	128.69	119.84
1	3g	176	GLN	OE1-CD-NE2	-7.08	115.52	122.60
1	4S	87	HIS	CB-CA-C	-7.08	99.45	110.78
1	5O	191	VAL	CB-CA-C	-7.08	102.75	112.02
1	61	71	GLU	CA-C-N	7.08	129.77	120.28
1	61	71	GLU	C-N-CA	7.08	129.77	120.28
1	68	22	ALA	CA-C-O	-7.08	113.05	120.55
1	6E	212	GLU	N-CA-C	7.08	119.00	111.28
1	9j	50	GLN	CA-C-N	7.08	130.07	120.44
1	9j	50	GLN	C-N-CA	7.08	130.07	120.44
1	9n	53	ASN	CA-CB-CG	-7.08	105.52	112.60
1	9n	83	LEU	N-CA-C	7.08	118.79	111.14
1	Y	166	ASP	CA-CB-CG	7.08	119.68	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ap	30	LYS	CA-C-N	7.08	132.06	120.94
1	ap	30	LYS	C-N-CA	7.08	132.06	120.94
1	b7	34	PRO	CA-C-N	7.08	129.77	120.28
1	b7	34	PRO	C-N-CA	7.08	129.77	120.28
1	do	162	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	eQ	10	MET	N-CA-C	7.08	120.00	109.59
1	eX	222	GLY	CA-C-O	-7.08	117.35	122.45
1	p	170	LYS	CA-C-O	-7.08	113.39	120.82
1	h3	169	TYR	N-CA-C	7.08	119.08	111.36
1	hp	36	VAL	CA-C-O	-7.08	113.59	120.95
1	hN	137	GLY	N-CA-C	7.08	121.20	112.64
1	hQ	177	ALA	N-CA-CB	-7.08	99.09	110.63
1	i2	120	HIS	ND1-CE1-NE2	7.08	115.48	108.40
1	i7	163	ASP	CB-CA-C	-7.08	99.77	110.88
1	iC	163	ASP	CA-C-N	7.08	130.26	120.63
1	iC	163	ASP	C-N-CA	7.08	130.26	120.63
1	iE	33	SER	O-C-N	-7.08	114.78	121.72
1	iI	23	TRP	CA-C-O	7.08	128.47	120.90
1	j3	173	ARG	NH1-CZ-NH2	-7.08	110.10	119.30
1	jt	186	THR	N-CA-CB	7.08	120.53	110.12
1	jA	183	ASN	CB-CG-ND2	7.08	127.02	116.40
1	kJ	222	GLY	N-CA-C	7.08	120.07	111.93
1	2X	166	ASP	N-CA-CB	-7.08	99.71	110.12
1	3o	11	VAL	O-C-N	-7.08	114.88	123.09
1	3x	96	MET	CG-SD-CE	-7.08	85.33	100.90
1	4p	228	ALA	N-CA-C	7.08	119.87	111.02
1	4q	215	MET	CA-C-O	-7.08	110.67	119.38
1	4O	41	SER	N-CA-C	7.08	119.00	111.28
1	4W	137	GLY	CA-C-O	-7.08	113.46	120.75
1	5i	199	LYS	N-CA-C	7.08	119.90	111.33
1	5A	224	PRO	N-CA-CB	7.08	107.55	102.81
1	5K	48	THR	O-C-N	-7.08	112.14	121.34
1	5S	213	GLU	CA-C-N	7.08	129.76	120.28
1	5S	213	GLU	C-N-CA	7.08	129.76	120.28
1	6j	25	LYS	N-CA-C	7.08	119.08	111.36
1	6j	182	LYS	CA-C-N	7.08	129.76	120.28
1	6j	182	LYS	C-N-CA	7.08	129.76	120.28
1	6t	51	ASP	N-CA-C	7.08	118.64	111.07
1	6C	4	GLN	CA-C-O	7.08	128.97	121.19
1	6X	155	GLN	CA-C-O	7.08	128.70	120.49
1	7q	39	MET	CG-SD-CE	-7.08	85.33	100.90
1	7S	40	PHE	O-C-N	-7.08	114.62	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	142	VAL	O-C-N	-7.08	115.00	121.87
1	8e	4	GLN	CA-C-N	7.08	130.07	120.44
1	8e	4	GLN	C-N-CA	7.08	130.07	120.44
1	8h	123	PRO	N-CA-CB	7.08	109.48	103.25
1	8I	57	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	94	191	VAL	N-CA-C	7.08	117.18	110.53
1	9q	201	ILE	N-CA-CB	7.08	120.17	110.54
1	9S	139	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	a7	222	GLY	O-C-N	-7.08	113.50	122.70
1	am	173	ARG	CD-NE-CZ	7.08	134.31	124.40
1	aJ	199	LYS	CA-C-N	7.08	130.63	120.79
1	aJ	199	LYS	C-N-CA	7.08	130.63	120.79
1	aX	169	TYR	CA-C-N	7.08	129.77	120.28
1	aX	169	TYR	C-N-CA	7.08	129.77	120.28
1	by	16	SER	CA-C-O	-7.08	113.46	119.76
1	bP	126	VAL	N-CA-C	7.08	118.69	110.62
1	cc	169	TYR	N-CA-C	7.08	119.00	111.28
1	cs	189	LEU	CA-C-N	7.08	130.08	120.38
1	cs	189	LEU	C-N-CA	7.08	130.08	120.38
1	es	195	ASN	N-CA-C	7.08	119.68	109.84
1	ey	221	VAL	CA-C-O	7.08	128.59	120.03
1	eD	67	GLN	N-CA-C	7.08	118.64	111.07
1	eS	48	THR	CA-C-O	-7.08	112.98	120.70
1	f4	104	ILE	CA-C-N	7.08	129.76	120.28
1	f4	104	ILE	C-N-CA	7.08	129.76	120.28
1	f5	184	TRP	CA-CB-CG	7.08	127.05	113.60
1	f6	125	PRO	CA-C-N	7.08	130.16	120.46
1	f6	125	PRO	C-N-CA	7.08	130.16	120.46
1	fp	12	HIS	CB-CG-ND1	7.08	133.32	122.70
1	fC	84	HIS	CA-C-N	7.08	128.04	120.11
1	fC	84	HIS	C-N-CA	7.08	128.04	120.11
1	fF	206	GLY	CA-C-N	7.08	126.71	119.56
1	fF	206	GLY	C-N-CA	7.08	126.71	119.56
1	F	182	LYS	O-C-N	-7.08	114.73	122.09
1	G	112	GLN	CA-C-N	7.08	129.64	120.44
1	G	112	GLN	C-N-CA	7.08	129.64	120.44
1	hl	27	VAL	N-CA-CB	7.08	118.83	110.55
1	jb	129	ILE	N-CA-C	7.08	117.59	110.23
1	kh	128	GLU	CA-C-N	7.08	129.48	120.56
1	kh	128	GLU	C-N-CA	7.08	129.48	120.56
1	kX	18	ARG	NE-CZ-NH2	-7.08	112.83	119.20
1	2u	200	THR	CA-C-N	7.08	129.48	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2u	200	THR	C-N-CA	7.08	129.48	120.56
1	3x	54	THR	O-C-N	7.08	129.36	122.07
1	3M	189	LEU	N-CA-C	7.08	118.99	111.28
1	3S	195	ASN	CA-C-O	-7.08	112.61	120.25
1	6F	70	LYS	N-CA-C	7.08	118.99	111.28
1	8p	53	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	97	50	GLN	CA-C-O	7.08	128.05	120.55
1	9r	132	ARG	N-CA-C	7.08	118.99	111.28
1	9G	131	LYS	O-C-N	-7.08	114.08	122.15
1	ar	221	VAL	O-C-N	7.08	128.60	122.16
1	cn	153	ILE	CA-C-O	7.08	128.66	121.58
1	cI	165	VAL	CA-C-N	7.08	129.64	120.44
1	cI	165	VAL	C-N-CA	7.08	129.64	120.44
1	cV	16	SER	CA-C-O	-7.08	113.10	119.75
1	d7	223	GLY	CA-C-N	7.08	127.11	119.89
1	d7	223	GLY	C-N-CA	7.08	127.11	119.89
1	e1	151	LEU	CA-C-N	7.08	130.06	120.44
1	e1	151	LEU	C-N-CA	7.08	130.06	120.44
1	1s	111	LEU	N-CA-C	7.08	122.98	111.37
1	f3	229	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	fc	226	HIS	CG-CD2-NE2	7.08	114.28	107.20
1	fJ	58	THR	CA-CB-OG1	7.08	120.22	109.60
1	g4	98	GLU	O-C-N	-7.08	114.01	121.30
1	gd	40	PHE	CA-CB-CG	-7.08	106.72	113.80
1	gt	221	VAL	O-C-N	-7.08	114.39	122.17
1	gC	4	GLN	OE1-CD-NE2	-7.08	115.52	122.60
1	iD	211	LEU	CA-C-O	-7.08	113.00	120.92
1	iL	106	GLY	CA-C-O	7.08	126.60	118.96
1	iS	118	MET	CA-C-O	7.08	128.05	120.55
1	2J	104	ILE	O-C-N	-7.08	114.54	121.83
1	2P	100	ARG	NE-CZ-NH2	7.08	125.57	119.20
1	2Z	36	VAL	O-C-N	-7.08	113.83	122.18
1	31	48	THR	CA-C-N	7.08	128.69	119.84
1	31	48	THR	C-N-CA	7.08	128.69	119.84
1	3A	204	ALA	N-CA-C	7.08	118.64	111.07
1	3H	167	ARG	NH1-CZ-NH2	-7.08	110.10	119.30
1	3K	104	ILE	O-C-N	-7.08	114.54	121.83
1	3L	73	ILE	CA-CB-CG2	-7.08	98.47	110.50
1	3N	162	ARG	NE-CZ-NH1	7.08	128.57	121.50
1	4N	187	GLU	CA-C-N	7.08	129.76	120.28
1	4N	187	GLU	C-N-CA	7.08	129.76	120.28
1	4Q	56	LEU	CA-C-O	7.08	128.47	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	115	ILE	N-CA-C	7.08	117.84	110.62
1	56	75	GLU	CA-C-O	7.08	127.99	120.70
1	5O	40	PHE	N-CA-C	7.08	119.89	111.33
1	6g	126	VAL	N-CA-C	7.08	117.79	110.36
1	6o	18	ARG	NE-CZ-NH1	7.08	128.57	121.50
1	6C	107	THR	N-CA-C	7.08	119.07	111.36
1	6R	12	HIS	CG-CD2-NE2	7.08	114.28	107.20
1	6V	116	GLY	CA-C-O	7.08	128.34	121.05
1	71	113	GLU	N-CA-C	7.08	119.60	111.11
1	73	139	ASN	OD1-CG-ND2	-7.08	115.52	122.60
1	7m	226	HIS	O-C-N	-7.08	114.73	122.09
1	83	167	ARG	NE-CZ-NH2	-7.08	112.83	119.20
1	8O	61	GLY	N-CA-C	7.08	124.42	110.77
1	8R	110	THR	CB-CA-C	7.08	122.56	109.54
1	9t	38	PRO	CA-C-N	7.08	130.34	120.29
1	9t	38	PRO	C-N-CA	7.08	130.34	120.29
1	9u	21	ASN	CA-CB-CG	7.08	119.68	112.60
1	9A	126	VAL	O-C-N	-7.08	115.01	121.87
1	9H	196	PRO	N-CA-C	7.08	125.24	113.78
1	9X	128	GLU	CA-C-N	7.08	129.62	120.56
1	9X	128	GLU	C-N-CA	7.08	129.62	120.56
1	a1	57	ASN	CA-C-O	7.08	128.17	119.11
1	a6	213	GLU	CA-C-N	7.08	129.64	120.44
1	a6	213	GLU	C-N-CA	7.08	129.64	120.44
1	12	130	TYR	CA-C-N	7.08	130.34	120.29
1	12	130	TYR	C-N-CA	7.08	130.34	120.29
1	12	219	GLN	OE1-CD-NE2	-7.08	115.53	122.60
1	av	167	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	13	106	GLY	CA-C-N	7.08	131.43	120.82
1	13	106	GLY	C-N-CA	7.08	131.43	120.82
1	aQ	140	LYS	CA-C-N	7.08	129.48	120.56
1	aQ	140	LYS	C-N-CA	7.08	129.48	120.56
1	15	205	LEU	CA-C-O	7.08	127.55	119.27
1	bs	83	LEU	N-CA-C	7.08	119.07	111.36
1	1c	33	SER	N-CA-C	-7.08	101.85	108.22
1	c8	73	ILE	CA-C-N	7.08	129.64	120.44
1	c8	73	ILE	C-N-CA	7.08	129.64	120.44
1	cf	47	ALA	N-CA-C	7.08	120.64	110.10
1	cJ	170	LYS	N-CA-C	7.08	118.99	111.28
1	dg	156	GLY	CA-C-O	-7.08	115.60	122.46
1	dD	209	ALA	N-CA-C	7.08	125.87	110.80
1	dI	18	ARG	NE-CZ-NH2	-7.08	112.83	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eg	205	LEU	CA-C-N	7.08	132.98	121.87
1	eg	205	LEU	C-N-CA	7.08	132.98	121.87
1	et	63	GLN	N-CA-C	7.08	119.07	111.36
1	eG	62	HIS	CA-CB-CG	7.08	120.88	113.80
1	fV	44	SER	CA-C-O	7.08	127.83	119.48
1	g5	203	LYS	CA-C-N	7.08	130.34	120.29
1	g5	203	LYS	C-N-CA	7.08	130.34	120.29
1	0	136	LEU	CA-C-N	7.08	127.78	120.00
1	0	136	LEU	C-N-CA	7.08	127.78	120.00
1	y	154	ARG	NE-CZ-NH1	7.08	128.58	121.50
1	U	147	PRO	CA-C-N	7.08	133.55	122.94
1	U	147	PRO	C-N-CA	7.08	133.55	122.94
1	gb	175	GLU	N-CA-C	7.07	120.49	110.23
1	gE	141	ILE	CA-C-N	7.07	129.47	120.56
1	gE	141	ILE	C-N-CA	7.07	129.47	120.56
1	gH	131	LYS	N-CA-C	7.07	119.89	111.33
1	gR	162	ARG	CA-C-N	7.07	130.06	120.44
1	gR	162	ARG	C-N-CA	7.07	130.06	120.44
1	1L	228	ALA	CA-C-N	7.07	130.09	120.54
1	1L	228	ALA	C-N-CA	7.07	130.09	120.54
1	hK	81	ASP	N-CA-C	7.07	118.99	111.28
1	hY	7	GLN	CA-C-O	-7.07	113.80	121.44
1	1P	78	ALA	N-CA-CB	-7.07	99.72	110.12
1	jt	221	VAL	CA-C-O	7.07	129.62	120.78
1	ju	30	LYS	CA-C-N	7.07	129.76	120.28
1	ju	30	LYS	C-N-CA	7.07	129.76	120.28
1	jw	110	THR	CA-CB-OG1	7.07	120.21	109.60
1	jR	186	THR	CA-C-O	7.07	128.05	120.55
1	k7	36	VAL	N-CA-C	7.07	117.84	110.62
1	ko	214	MET	N-CA-C	7.07	119.07	111.36
1	kW	69	LEU	CA-C-N	7.07	129.64	120.44
1	kW	69	LEU	C-N-CA	7.07	129.64	120.44
1	lh	162	ARG	NE-CZ-NH2	-7.07	112.83	119.20
1	29	162	ARG	CA-C-N	7.07	129.63	120.44
1	29	162	ARG	C-N-CA	7.07	129.63	120.44
1	31	76	GLU	CA-C-N	7.07	129.76	120.28
1	31	76	GLU	C-N-CA	7.07	129.76	120.28
1	35	198	CYS	N-CA-C	7.07	118.78	111.14
1	3j	180	GLU	N-CA-C	7.07	118.64	111.07
1	3w	165	VAL	O-C-N	-7.07	114.98	121.91
1	3U	12	HIS	CA-C-N	7.07	133.19	122.93
1	3U	12	HIS	C-N-CA	7.07	133.19	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	47	124	ILE	CB-CA-C	7.07	119.31	111.18
1	4z	36	VAL	O-C-N	-7.07	114.54	121.90
1	4N	100	ARG	NE-CZ-NH2	-7.07	112.83	119.20
1	5e	132	ARG	NE-CZ-NH2	-7.07	112.83	119.20
1	5r	42	ALA	N-CA-C	7.07	120.03	111.82
1	5w	55	MET	N-CA-C	7.07	118.99	111.28
1	5y	167	ARG	NH1-CZ-NH2	-7.07	110.11	119.30
1	5P	58	THR	CA-CB-OG1	7.07	120.21	109.60
1	6o	54	THR	O-C-N	-7.07	114.73	122.09
1	6y	51	ASP	N-CA-C	7.07	118.99	111.28
1	7m	32	PHE	CA-CB-CG	-7.07	106.73	113.80
1	7T	35	GLU	N-CA-C	7.07	119.84	111.71
1	8Y	87	HIS	CA-CB-CG	7.07	120.87	113.80
1	90	140	LYS	N-CA-C	7.07	118.99	111.28
1	9c	134	ILE	N-CA-C	7.07	117.84	110.62
1	a4	125	PRO	CA-C-N	7.07	130.50	120.53
1	a4	125	PRO	C-N-CA	7.07	130.50	120.53
1	10	113	GLU	N-CA-C	7.07	118.99	111.28
1	ad	131	LYS	CA-C-O	7.07	128.10	119.97
1	at	212	GLU	N-CA-C	7.07	119.60	111.11
1	aQ	120	HIS	CA-CB-CG	7.07	120.87	113.80
1	b2	194	ALA	CA-C-N	7.07	130.94	120.83
1	b2	194	ALA	C-N-CA	7.07	130.94	120.83
1	bn	206	GLY	CA-C-N	7.07	128.68	119.84
1	bn	206	GLY	C-N-CA	7.07	128.68	119.84
1	bE	120	HIS	O-C-N	-7.07	114.47	122.75
1	bQ	200	THR	CA-C-N	7.07	130.46	120.42
1	bQ	200	THR	C-N-CA	7.07	130.46	120.42
1	c4	184	TRP	CA-C-O	7.07	128.10	119.97
1	c6	144	MET	N-CA-C	7.07	118.99	111.28
1	1e	168	PHE	CA-CB-CG	-7.07	106.73	113.80
1	dc	119	THR	CA-CB-OG1	7.07	120.21	109.60
1	ds	194	ALA	CA-C-N	7.07	130.22	120.39
1	ds	194	ALA	C-N-CA	7.07	130.22	120.39
1	et	67	GLN	CB-CG-CD	7.07	124.62	112.60
1	fc	149	SER	N-CA-CB	7.07	121.69	110.23
1	fd	144	MET	CA-C-N	7.07	130.33	120.29
1	fd	144	MET	C-N-CA	7.07	130.33	120.29
1	fh	180	GLU	N-CA-C	7.07	118.99	111.28
1	n	100	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	9	14	ALA	N-CA-C	7.07	120.49	110.23
1	ih	219	GLN	N-CA-C	7.07	119.43	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	84	HIS	ND1-CE1-NE2	7.07	115.47	108.40
1	jJ	220	GLY	CA-C-N	7.07	134.70	121.97
1	jJ	220	GLY	C-N-CA	7.07	134.70	121.97
1	l7	88	ALA	N-CA-C	7.07	120.64	110.10
1	lk	192	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	2t	193	ASN	O-C-N	-7.07	112.61	122.37
1	2U	80	TRP	O-C-N	-7.07	114.51	122.08
1	3g	167	ARG	O-C-N	-7.07	113.95	122.22
1	53	150	ILE	N-CA-C	-7.07	105.83	112.83
1	6p	57	ASN	CA-CB-CG	-7.07	105.53	112.60
1	7f	134	ILE	N-CA-C	7.07	117.21	110.42
1	82	183	ASN	OD1-CG-ND2	-7.07	115.53	122.60
1	8D	105	ALA	N-CA-C	-7.07	104.22	112.92
1	9M	18	ARG	NE-CZ-NH2	7.07	125.56	119.20
1	aS	121	ASN	CB-CA-C	7.07	118.28	110.15
1	cQ	126	VAL	N-CA-C	7.07	119.93	111.09
1	d9	195	ASN	CB-CA-C	7.07	120.28	109.60
1	db	23	TRP	CB-CG-CD1	-7.07	116.29	126.90
1	1k	18	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	1k	100	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	ds	171	THR	O-C-N	-7.07	114.62	122.12
1	D	206	GLY	CA-C-N	7.07	126.78	119.64
1	D	206	GLY	C-N-CA	7.07	126.78	119.64
1	N	4	GLN	N-CA-CB	7.07	121.87	110.77
1	gg	90	PRO	CA-C-N	7.07	134.70	121.97
1	gg	90	PRO	C-N-CA	7.07	134.70	121.97
1	1E	129	ILE	N-CA-CB	7.07	118.82	110.55
1	gO	78	ALA	CA-C-N	7.07	129.75	120.28
1	gO	78	ALA	C-N-CA	7.07	129.75	120.28
1	gX	110	THR	CA-C-N	7.07	129.75	120.28
1	gX	110	THR	C-N-CA	7.07	129.75	120.28
1	h0	214	MET	O-C-N	-7.07	114.79	122.07
1	h1	186	THR	CA-C-O	-7.07	113.42	120.70
1	hr	164	TYR	N-CA-CB	7.07	120.51	110.12
1	1M	82	ARG	NH1-CZ-NH2	-7.07	110.11	119.30
1	hV	144	MET	N-CA-C	7.07	119.89	111.33
1	ik	226	HIS	N-CA-CB	7.07	120.26	110.01
1	iC	112	GLN	O-C-N	-7.07	114.79	122.07
1	iP	31	ALA	CA-C-O	-7.07	114.06	121.55
1	iP	156	GLY	O-C-N	-7.07	116.06	122.42
1	1W	67	GLN	N-CA-CB	7.07	120.51	110.12
1	jA	229	ARG	N-CA-C	7.07	119.65	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kf	140	LYS	CA-C-O	-7.07	113.40	120.82
1	kG	42	ALA	O-C-N	-7.07	114.79	122.07
1	ly	18	ARG	N-CA-C	7.07	118.64	111.07
1	2B	13	GLN	OE1-CD-NE2	7.07	129.67	122.60
1	2F	199	LYS	O-C-N	-7.07	113.95	122.22
1	2P	101	GLY	CA-C-N	7.07	129.75	120.28
1	2P	101	GLY	C-N-CA	7.07	129.75	120.28
1	2T	132	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	3m	144	MET	N-CA-C	7.07	121.14	112.23
1	3F	197	ASP	N-CA-C	7.07	119.84	111.71
1	4y	219	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	5n	71	GLU	CB-CG-CD	7.07	124.62	112.60
1	5C	62	HIS	ND1-CG-CD2	7.07	113.17	106.10
1	6e	200	THR	O-C-N	-7.07	114.63	122.12
1	6g	134	ILE	N-CA-C	7.07	117.86	110.72
1	6n	29	GLU	N-CA-C	7.07	122.58	113.88
1	6t	177	ALA	N-CA-CB	-7.07	99.58	109.97
1	6J	223	GLY	CA-C-N	7.07	127.10	119.89
1	6J	223	GLY	C-N-CA	7.07	127.10	119.89
1	7F	16	SER	N-CA-C	7.07	118.62	109.64
1	8b	176	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	8o	84	HIS	CA-CB-CG	-7.07	106.73	113.80
1	8V	5	ASN	CA-C-N	7.07	135.04	121.54
1	8V	5	ASN	C-N-CA	7.07	135.04	121.54
1	93	12	HIS	ND1-CE1-NE2	7.07	115.47	108.40
1	96	32	PHE	CA-CB-CG	-7.07	106.73	113.80
1	9z	73	ILE	O-C-N	-7.07	113.81	121.80
1	9J	67	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	aq	143	ARG	NE-CZ-NH2	-7.07	112.84	119.20
1	aN	205	LEU	CA-C-N	7.07	132.97	121.87
1	aN	205	LEU	C-N-CA	7.07	132.97	121.87
1	bx	53	ASN	OD1-CG-ND2	-7.07	115.53	122.60
1	c0	62	HIS	ND1-CG-CD2	7.07	113.17	106.10
1	cv	135	ILE	N-CA-C	7.07	117.21	110.42
1	cx	98	GLU	CB-CA-C	7.07	120.52	109.42
1	cC	72	THR	CA-C-N	7.07	130.15	120.46
1	cC	72	THR	C-N-CA	7.07	130.15	120.46
1	d0	120	HIS	CB-CG-ND1	7.07	133.31	122.70
1	dw	77	ALA	CA-C-O	7.07	127.92	120.42
1	ew	74	ASN	CA-C-N	7.07	129.63	120.44
1	ew	74	ASN	C-N-CA	7.07	129.63	120.44
1	eB	88	ALA	N-CA-CB	-7.07	100.33	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eV	221	VAL	N-CA-C	7.07	119.20	109.80
1	C	123	PRO	N-CA-CB	7.07	109.26	103.32
1	is	21	ASN	N-CA-C	7.07	119.88	111.33
1	1Y	125	PRO	CA-C-O	-7.07	116.08	121.31
1	ks	56	LEU	CA-C-N	7.07	130.33	120.29
1	ks	56	LEU	C-N-CA	7.07	130.33	120.29
1	29	143	ARG	CA-C-O	7.07	128.26	120.63
1	2E	10	MET	N-CA-CB	-7.07	100.15	110.26
1	2Y	63	GLN	N-CA-C	7.07	118.98	111.28
1	3g	12	HIS	CA-C-O	7.07	129.38	121.11
1	63	75	GLU	N-CA-C	7.07	119.64	111.02
1	7o	82	ARG	NE-CZ-NH2	-7.07	112.84	119.20
1	7O	52	LEU	CA-C-O	7.07	128.24	120.82
1	8r	226	HIS	CB-CG-CD2	-7.07	122.01	131.20
1	8V	137	GLY	O-C-N	-7.07	114.57	122.28
1	98	159	GLU	N-CA-C	7.07	119.89	109.50
1	ar	174	ALA	O-C-N	-7.07	114.63	122.12
1	aG	84	HIS	CG-CD2-NE2	7.07	114.27	107.20
1	aH	53	ASN	CA-C-N	7.07	130.08	120.54
1	aH	53	ASN	C-N-CA	7.07	130.08	120.54
1	H	146	SER	CA-C-O	-7.07	113.09	119.59
1	M	92	GLU	N-CA-C	7.07	117.73	109.60
1	gf	120	HIS	CG-CD2-NE2	7.07	114.27	107.20
1	gX	73	ILE	O-C-N	7.07	129.11	121.83
1	hm	45	GLU	CA-C-O	7.07	129.03	120.62
1	hv	99	PRO	N-CA-C	7.07	122.45	111.21
1	hR	141	ILE	N-CA-C	7.07	117.83	110.62
1	jv	26	VAL	N-CA-C	7.07	117.83	110.62
1	jM	112	GLN	CG-CD-OE1	7.07	134.94	120.80
1	k3	224	PRO	N-CA-CB	-7.07	95.83	103.25
1	k5	161	PHE	N-CA-C	7.07	118.98	111.28
1	2k	181	VAL	N-CA-C	7.07	117.83	110.62
1	2F	144	MET	CG-SD-CE	-7.07	85.35	100.90
1	2V	42	ALA	CA-C-N	7.07	130.33	120.29
1	2V	42	ALA	C-N-CA	7.07	130.33	120.29
1	43	139	ASN	CA-CB-CG	-7.07	105.53	112.60
1	5n	172	LEU	N-CA-C	7.07	118.98	111.28
1	6j	106	GLY	N-CA-C	-7.07	105.10	115.63
1	6n	74	ASN	OD1-CG-ND2	-7.07	115.53	122.60
1	6X	89	GLY	CA-C-N	7.07	127.48	119.92
1	6X	89	GLY	C-N-CA	7.07	127.48	119.92
1	7E	27	VAL	O-C-N	-7.07	115.02	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7K	63	GLN	N-CA-C	7.07	118.63	111.07
1	8T	163	ASP	CA-C-O	7.07	127.91	120.42
1	8X	154	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	92	179	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	9c	190	LEU	CA-C-N	7.07	130.46	120.42
1	9c	190	LEU	C-N-CA	7.07	130.46	120.42
1	9f	196	PRO	CA-C-N	7.07	129.63	120.44
1	9f	196	PRO	C-N-CA	7.07	129.63	120.44
1	9M	218	CYS	N-CA-C	7.07	120.99	111.24
1	9Y	170	LYS	O-C-N	-7.07	114.79	122.07
1	aj	170	LYS	O-C-N	-7.07	114.74	122.09
1	an	18	ARG	CA-C-O	-7.07	112.93	120.42
1	au	1	PRO	CA-C-N	7.07	131.21	122.37
1	au	1	PRO	C-N-CA	7.07	131.21	122.37
1	aL	95	GLN	N-CA-CB	7.07	122.43	110.49
1	14	66	MET	CA-C-N	7.07	129.63	120.44
1	14	66	MET	C-N-CA	7.07	129.63	120.44
1	aO	198	CYS	CA-C-N	7.07	129.63	120.44
1	aO	198	CYS	C-N-CA	7.07	129.63	120.44
1	15	74	ASN	N-CA-C	7.07	119.59	111.11
1	bh	181	VAL	N-CA-C	7.07	117.83	110.62
1	cj	162	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	cr	131	LYS	CA-C-N	7.07	129.75	120.28
1	cr	131	LYS	C-N-CA	7.07	129.75	120.28
1	cE	121	ASN	CA-CB-CG	-7.07	105.53	112.60
1	cN	217	ALA	CA-C-N	7.07	132.67	122.35
1	cN	217	ALA	C-N-CA	7.07	132.67	122.35
1	dx	87	HIS	CE1-NE2-CD2	-7.07	101.93	109.00
1	dx	119	THR	CA-CB-OG1	7.07	120.20	109.60
1	eo	23	TRP	CA-C-N	7.07	129.47	120.56
1	eo	23	TRP	C-N-CA	7.07	129.47	120.56
1	eQ	195	ASN	CA-CB-CG	7.07	119.67	112.60
1	eR	159	GLU	CB-CG-CD	7.07	124.62	112.60
1	f5	143	ARG	NH1-CZ-NH2	-7.07	110.11	119.30
1	ft	101	GLY	CA-C-N	7.07	129.75	120.28
1	ft	101	GLY	C-N-CA	7.07	129.75	120.28
1	fG	123	PRO	CA-C-O	-7.07	113.28	121.34
1	q	119	THR	CA-C-O	7.07	127.83	119.56
1	gr	213	GLU	N-CA-C	-7.07	103.51	111.14
1	gs	173	ARG	N-CA-C	7.07	119.83	111.71
1	gV	154	ARG	NE-CZ-NH1	7.07	128.56	121.50
1	gW	99	PRO	CB-CA-C	7.07	119.26	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h2	63	GLN	CA-C-O	-7.07	113.40	120.82
1	h6	150	ILE	O-C-N	-7.07	115.31	122.23
1	hj	200	THR	O-C-N	-7.07	114.46	122.09
1	iu	128	GLU	O-C-N	7.07	129.35	122.07
1	iN	177	ALA	CA-C-N	7.07	134.34	121.06
1	iN	177	ALA	C-N-CA	7.07	134.34	121.06
1	jo	37	ILE	CA-C-O	7.07	123.42	118.69
1	ju	32	PHE	CA-CB-CG	-7.07	106.73	113.80
1	jB	63	GLN	CA-C-N	7.07	129.63	120.44
1	jB	63	GLN	C-N-CA	7.07	129.63	120.44
1	jG	89	GLY	CA-C-N	7.07	127.06	119.78
1	jG	89	GLY	C-N-CA	7.07	127.06	119.78
1	jI	74	ASN	OD1-CG-ND2	-7.07	115.53	122.60
1	kf	132	ARG	NE-CZ-NH1	7.07	128.56	121.50
1	21	70	LYS	O-C-N	-7.07	114.63	122.12
1	kv	37	ILE	CA-C-N	7.07	126.89	119.05
1	kv	37	ILE	C-N-CA	7.07	126.89	119.05
1	kH	177	ALA	CA-C-N	7.07	131.16	121.05
1	kH	177	ALA	C-N-CA	7.07	131.16	121.05
1	l9	76	GLU	N-CA-C	7.07	118.98	111.28
1	ld	226	HIS	CG-CD2-NE2	7.07	114.27	107.20
1	ls	81	ASP	N-CA-C	7.07	118.98	111.28
1	lx	132	ARG	NE-CZ-NH2	7.07	125.56	119.20
1	2w	146	SER	CA-C-N	-7.07	112.50	119.64
1	2w	146	SER	C-N-CA	-7.07	112.50	119.64
1	2I	178	SER	O-C-N	-7.07	114.18	122.87
1	33	88	ALA	O-C-N	-7.07	114.52	122.86
1	3Z	78	ALA	CA-C-N	7.07	129.62	120.44
1	3Z	78	ALA	C-N-CA	7.07	129.62	120.44
1	40	111	LEU	N-CA-C	7.07	119.59	111.11
1	45	171	THR	CA-C-O	7.07	127.91	120.42
1	48	229	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	4c	33	SER	O-C-N	-7.07	115.28	121.71
1	4K	172	LEU	CA-C-N	7.07	129.63	120.44
1	4K	172	LEU	C-N-CA	7.07	129.63	120.44
1	4K	196	PRO	CA-C-N	7.07	132.52	120.72
1	4K	196	PRO	C-N-CA	7.07	132.52	120.72
1	53	77	ALA	CA-C-N	7.07	129.62	120.44
1	53	77	ALA	C-N-CA	7.07	129.62	120.44
1	5c	171	THR	CA-C-N	7.07	131.05	120.31
1	5c	171	THR	C-N-CA	7.07	131.05	120.31
1	6d	204	ALA	O-C-N	-7.07	114.63	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7i	32	PHE	CA-CB-CG	-7.07	106.73	113.80
1	7u	152	ASP	CA-C-O	7.07	126.82	119.05
1	7S	87	HIS	CB-CG-CD2	-7.07	122.01	131.20
1	8B	162	ARG	NE-CZ-NH2	-7.07	112.84	119.20
1	8R	167	ARG	N-CA-C	7.07	118.98	111.28
1	90	210	THR	CA-CB-OG1	7.07	120.20	109.60
1	93	185	MET	N-CA-C	7.07	118.63	111.07
1	9H	214	MET	N-CA-C	7.07	119.06	111.36
1	9K	120	HIS	CE1-NE2-CD2	-7.07	101.93	109.00
1	9Q	102	SER	N-CA-C	7.07	118.98	111.28
1	Z	152	ASP	N-CA-CB	-7.07	100.03	110.49
1	aI	168	PHE	CA-C-N	7.07	130.06	120.38
1	aI	168	PHE	C-N-CA	7.07	130.06	120.38
1	aY	74	ASN	O-C-N	-7.07	114.09	122.15
1	b0	202	LEU	N-CA-C	7.07	119.84	111.71
1	bB	183	ASN	CB-CG-OD1	7.07	134.93	120.80
1	cK	115	ILE	CA-C-N	7.07	127.97	119.99
1	cK	115	ILE	C-N-CA	7.07	127.97	119.99
1	cS	193	ASN	CA-CB-CG	-7.07	105.53	112.60
1	cT	53	ASN	OD1-CG-ND2	-7.07	115.53	122.60
1	dd	66	MET	CG-SD-CE	-7.07	85.36	100.90
1	dC	217	ALA	N-CA-C	7.07	119.10	110.41
1	e4	44	SER	CB-CA-C	-7.07	100.36	111.17
1	e6	214	MET	N-CA-C	7.07	120.02	111.82
1	f4	124	ILE	O-C-N	-7.07	115.95	121.46
1	fn	211	LEU	N-CA-C	7.07	118.98	111.28
1	fD	167	ARG	NE-CZ-NH1	7.07	128.57	121.50
1	1y	19	THR	CA-C-O	7.07	128.10	119.97
1	fE	195	ASN	CA-CB-CG	7.07	119.67	112.60
1	fQ	51	ASP	O-C-N	-7.07	114.79	122.07
1	fY	180	GLU	N-CA-C	7.07	118.63	111.07
1	t	4	GLN	OE1-CD-NE2	-7.07	115.53	122.60
1	y	37	ILE	CA-C-N	7.07	126.55	118.85
1	y	37	ILE	C-N-CA	7.07	126.55	118.85
1	B	166	ASP	CA-CB-CG	7.07	119.67	112.60
1	gI	117	TRP	O-C-N	7.06	129.44	122.09
1	iK	84	HIS	CE1-NE2-CD2	-7.06	101.94	109.00
1	kJ	81	ASP	O-C-N	-7.06	114.79	122.07
1	lf	167	ARG	NE-CZ-NH2	-7.06	112.84	119.20
1	lo	46	GLY	CA-C-N	7.06	131.42	120.75
1	lo	46	GLY	C-N-CA	7.06	131.42	120.75
1	ls	67	GLN	O-C-N	-7.06	114.63	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2H	27	VAL	N-CA-C	7.06	117.78	110.36
1	3v	193	ASN	CA-CB-CG	-7.06	105.54	112.60
1	4d	86	VAL	CA-C-N	7.06	130.74	120.71
1	4d	86	VAL	C-N-CA	7.06	130.74	120.71
1	4L	124	ILE	CA-C-O	7.06	123.32	119.15
1	5D	18	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	7n	10	MET	N-CA-CB	7.06	120.15	109.34
1	7U	18	ARG	CA-C-N	7.06	129.62	120.44
1	7U	18	ARG	C-N-CA	7.06	129.62	120.44
1	9W	13	GLN	O-C-N	-7.06	115.08	123.27
1	aj	112	GLN	N-CA-CB	-7.06	99.74	110.12
1	bC	39	MET	N-CA-C	7.06	118.63	111.07
1	db	183	ASN	CA-C-O	7.06	128.46	120.90
1	eI	62	HIS	CA-CB-CG	-7.06	106.74	113.80
1	fb	141	ILE	CA-C-N	7.06	131.63	120.47
1	fb	141	ILE	C-N-CA	7.06	131.63	120.47
1	fF	120	HIS	CE1-NE2-CD2	-7.06	101.94	109.00
1	gh	166	ASP	N-CA-C	7.06	118.98	111.28
1	go	132	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	gN	100	ARG	CA-C-N	7.06	127.97	119.99
1	gN	100	ARG	C-N-CA	7.06	127.97	119.99
1	gT	109	SER	CA-C-O	7.06	128.13	120.43
1	ha	100	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	hX	223	GLY	CA-C-N	7.06	126.98	119.85
1	hX	223	GLY	C-N-CA	7.06	126.98	119.85
1	iq	92	GLU	N-CA-C	7.06	117.72	109.60
1	iA	114	GLN	CA-C-O	7.06	127.91	120.42
1	iX	121	ASN	CA-CB-CG	-7.06	105.54	112.60
1	iY	83	LEU	N-CA-C	7.06	118.63	111.07
1	jz	166	ASP	CA-C-O	7.06	128.04	120.55
1	jE	122	PRO	CA-C-N	7.06	127.05	119.78
1	jE	122	PRO	C-N-CA	7.06	127.05	119.78
1	jE	180	GLU	N-CA-C	7.06	119.06	111.36
1	jQ	24	VAL	O-C-N	-7.06	115.02	121.87
1	20	64	ALA	N-CA-C	7.06	118.98	111.28
1	le	158	LYS	CB-CA-C	-7.06	100.16	111.18
1	38	70	LYS	N-CA-C	7.06	118.63	111.07
1	3f	134	ILE	N-CA-C	7.06	117.20	110.42
1	3M	156	GLY	O-C-N	-7.06	114.71	121.77
1	4e	135	ILE	N-CA-C	7.06	117.20	110.42
1	5y	171	THR	O-C-N	-7.06	114.63	122.12
1	5B	175	GLU	CA-C-O	-7.06	113.42	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	68	149	SER	O-C-N	-7.06	115.20	123.25
1	6y	74	ASN	CA-C-N	7.06	130.06	120.38
1	6y	74	ASN	C-N-CA	7.06	130.06	120.38
1	6G	2	ILE	CA-CB-CG1	7.06	122.41	110.40
1	6W	100	ARG	NE-CZ-NH2	-7.06	112.84	119.20
1	76	125	PRO	CA-C-N	7.06	131.63	120.47
1	76	125	PRO	C-N-CA	7.06	131.63	120.47
1	86	104	ILE	CB-CA-C	7.06	121.29	112.04
1	8W	150	ILE	N-CA-C	7.06	118.67	110.62
1	9j	86	VAL	CA-C-O	7.06	129.32	121.13
1	a3	103	ASP	CA-C-N	7.06	129.46	120.56
1	a3	103	ASP	C-N-CA	7.06	129.46	120.56
1	a4	120	HIS	ND1-CE1-NE2	7.06	115.46	108.40
1	aI	83	LEU	CA-C-O	-7.06	112.40	120.24
1	aS	120	HIS	CE1-NE2-CD2	-7.06	101.94	109.00
1	aV	21	ASN	CA-C-O	-7.06	113.06	120.55
1	aX	195	ASN	CA-CB-CG	-7.06	105.54	112.60
1	aZ	87	HIS	CE1-NE2-CD2	-7.06	101.94	109.00
1	17	206	GLY	CA-C-N	7.06	128.67	119.84
1	17	206	GLY	C-N-CA	7.06	128.67	119.84
1	bC	176	GLN	CA-C-N	7.06	132.03	120.94
1	bC	176	GLN	C-N-CA	7.06	132.03	120.94
1	bD	176	GLN	OE1-CD-NE2	-7.06	115.54	122.60
1	bV	80	TRP	CA-C-N	7.06	129.74	120.28
1	bV	80	TRP	C-N-CA	7.06	129.74	120.28
1	c8	127	GLY	CA-C-O	-7.06	112.99	120.90
1	1d	162	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	cp	178	SER	N-CA-CB	7.06	120.06	110.38
1	cq	45	GLU	CA-C-N	7.06	130.78	120.11
1	cq	45	GLU	C-N-CA	7.06	130.78	120.11
1	cI	204	ALA	N-CA-C	7.06	120.01	111.82
1	cY	188	THR	CA-C-N	7.06	130.32	120.29
1	cY	188	THR	C-N-CA	7.06	130.32	120.29
1	d2	138	LEU	CA-C-O	-7.06	113.06	120.55
1	d2	165	VAL	CB-CA-C	7.06	121.97	112.22
1	d8	53	ASN	CA-C-N	7.06	129.74	120.28
1	d8	53	ASN	C-N-CA	7.06	129.74	120.28
1	dm	179	GLN	O-C-N	-7.06	114.63	122.12
1	e9	181	VAL	O-C-N	-7.06	114.99	121.91
1	eU	206	GLY	CA-C-N	7.06	127.49	119.93
1	eU	206	GLY	C-N-CA	7.06	127.49	119.93
1	f8	153	ILE	N-CA-C	7.06	118.13	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	66	MET	N-CA-C	7.06	118.63	111.07
1	fM	11	VAL	N-CA-C	7.06	118.55	109.30
1	fZ	82	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	g7	82	ARG	NE-CZ-NH2	-7.06	112.84	119.20
1	g	17	PRO	N-CA-C	-7.06	104.36	114.18
1	i	118	MET	N-CA-C	7.06	120.01	111.82
1	o	206	GLY	CA-C-N	7.06	128.67	119.84
1	o	206	GLY	C-N-CA	7.06	128.67	119.84
1	4	124	ILE	CB-CA-C	7.06	118.27	110.71
1	V	36	VAL	O-C-N	-7.06	115.02	121.87
1	h4	119	THR	N-CA-CB	7.06	120.87	110.56
1	iP	195	ASN	O-C-N	-7.06	113.76	121.53
1	ko	111	LEU	O-C-N	-7.06	114.64	122.12
1	l5	193	ASN	CA-CB-CG	-7.06	105.54	112.60
1	lI	229	ARG	NE-CZ-NH2	-7.06	112.84	119.20
1	2c	74	ASN	CA-C-N	7.06	129.74	120.28
1	2c	74	ASN	C-N-CA	7.06	129.74	120.28
1	2p	195	ASN	CA-C-N	7.06	128.67	119.84
1	2p	195	ASN	C-N-CA	7.06	128.67	119.84
1	2O	163	ASP	CA-C-N	7.06	130.05	120.38
1	2O	163	ASP	C-N-CA	7.06	130.05	120.38
1	3s	93	PRO	N-CA-C	7.06	122.31	111.15
1	3W	178	SER	CA-C-N	7.06	130.05	120.38
1	3W	178	SER	C-N-CA	7.06	130.05	120.38
1	7h	200	THR	CA-C-O	-7.06	113.06	120.55
1	7M	176	GLN	CA-C-N	7.06	130.86	120.90
1	7M	176	GLN	C-N-CA	7.06	130.86	120.90
1	9A	63	GLN	N-CA-CB	7.06	120.61	110.16
1	9G	155	GLN	OE1-CD-NE2	-7.06	115.54	122.60
1	ad	179	GLN	CA-C-N	7.06	129.74	120.28
1	ad	179	GLN	C-N-CA	7.06	129.74	120.28
1	bO	36	VAL	CA-C-N	7.06	124.69	120.24
1	bO	36	VAL	C-N-CA	7.06	124.69	120.24
1	cm	135	ILE	N-CA-C	7.06	117.82	110.62
1	cD	189	LEU	CA-C-N	7.06	129.74	120.28
1	cD	189	LEU	C-N-CA	7.06	129.74	120.28
1	cK	168	PHE	N-CA-C	7.06	118.62	111.07
1	cO	120	HIS	N-CA-C	7.06	119.68	110.43
1	dG	154	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	dY	28	GLU	N-CA-C	7.06	118.77	111.14
1	ek	93	PRO	CA-C-O	7.06	129.78	121.31
1	1s	87	HIS	ND1-CE1-NE2	7.06	115.46	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gF	102	SER	O-C-N	-7.06	114.64	122.12
1	hH	128	GLU	CA-C-O	7.06	128.23	120.82
1	hM	102	SER	N-CA-C	7.06	119.87	111.33
1	i8	51	ASP	CA-C-N	7.06	130.07	120.54
1	i8	51	ASP	C-N-CA	7.06	130.07	120.54
1	jc	185	MET	CA-C-O	-7.06	112.94	120.42
1	km	215	MET	CA-C-O	7.06	128.03	120.55
1	ko	130	TYR	N-CA-C	7.06	118.62	111.07
1	kp	188	THR	N-CA-C	7.06	120.01	111.82
1	ky	186	THR	CA-CB-OG1	7.06	120.19	109.60
1	kJ	168	PHE	O-C-N	7.06	129.60	122.12
1	kQ	149	SER	CA-C-N	7.06	132.22	120.64
1	kQ	149	SER	C-N-CA	7.06	132.22	120.64
1	kZ	136	LEU	CA-C-N	7.06	127.77	120.00
1	kZ	136	LEU	C-N-CA	7.06	127.77	120.00
1	l0	162	ARG	NH1-CZ-NH2	7.06	128.48	119.30
1	lc	172	LEU	CA-C-N	7.06	129.74	120.28
1	lc	172	LEU	C-N-CA	7.06	129.74	120.28
1	lj	195	ASN	CA-CB-CG	7.06	119.66	112.60
1	lz	189	LEU	N-CA-C	7.06	118.97	111.28
1	2Y	147	PRO	N-CA-C	7.06	122.34	111.11
1	32	5	ASN	O-C-N	-7.06	114.80	122.85
1	36	167	ARG	NE-CZ-NH2	-7.06	112.85	119.20
1	3J	18	ARG	CG-CD-NE	-7.06	96.47	112.00
1	3P	16	SER	CA-C-O	-7.06	113.62	120.19
1	48	70	LYS	N-CA-C	7.06	118.62	111.07
1	4n	230	VAL	CA-C-N	7.06	134.41	121.70
1	4n	230	VAL	C-N-CA	7.06	134.41	121.70
1	4M	49	PRO	O-C-N	-7.06	113.11	122.22
1	5n	17	PRO	N-CA-C	-7.06	104.74	114.27
1	5w	79	GLU	CA-C-N	7.06	130.04	120.44
1	5w	79	GLU	C-N-CA	7.06	130.04	120.44
1	5R	163	ASP	O-C-N	-7.06	114.64	122.12
1	5S	63	GLN	N-CA-C	7.06	118.97	111.28
1	5Z	92	GLU	CA-C-N	7.06	127.10	119.90
1	5Z	92	GLU	C-N-CA	7.06	127.10	119.90
1	68	9	GLN	N-CA-CB	7.06	120.42	110.04
1	68	27	VAL	O-C-N	-7.06	114.56	121.90
1	6I	132	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	6O	76	GLU	N-CA-C	7.06	118.97	111.28
1	6R	160	PRO	CA-C-N	7.06	130.60	120.79
1	6R	160	PRO	C-N-CA	7.06	130.60	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7h	87	HIS	CG-CD2-NE2	7.06	114.26	107.20
1	7m	164	TYR	O-C-N	-7.06	114.80	122.07
1	7D	64	ALA	N-CA-C	7.06	118.62	111.07
1	7T	114	GLN	OE1-CD-NE2	-7.06	115.54	122.60
1	96	169	TYR	N-CA-C	7.06	118.97	111.28
1	9i	81	ASP	O-C-N	-7.06	113.04	122.43
1	9i	120	HIS	CB-CG-CD2	-7.06	122.02	131.20
1	9p	146	SER	N-CA-C	7.06	118.61	109.64
1	9q	195	ASN	CA-C-N	7.06	128.66	119.84
1	9q	195	ASN	C-N-CA	7.06	128.66	119.84
1	a5	67	GLN	CA-C-N	7.06	130.05	120.38
1	a5	67	GLN	C-N-CA	7.06	130.05	120.38
1	ac	171	THR	CA-C-N	7.06	129.74	120.28
1	ac	171	THR	C-N-CA	7.06	129.74	120.28
1	aE	67	GLN	N-CA-C	-7.06	103.66	111.36
1	b9	121	ASN	N-CA-CB	-7.06	99.37	110.03
1	c6	191	VAL	CA-C-N	7.06	130.05	120.38
1	c6	191	VAL	C-N-CA	7.06	130.05	120.38
1	ct	201	ILE	O-C-N	-7.06	114.56	121.83
1	ds	112	GLN	OE1-CD-NE2	-7.06	115.54	122.60
1	du	62	HIS	CA-C-O	-7.06	112.23	120.98
1	1l	122	PRO	CA-C-N	7.06	127.09	119.89
1	1l	122	PRO	C-N-CA	7.06	127.09	119.89
1	dB	194	ALA	CA-C-N	7.06	131.40	120.60
1	dB	194	ALA	C-N-CA	7.06	131.40	120.60
1	eg	209	ALA	N-CA-C	7.06	119.68	110.43
1	ei	100	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	eE	185	MET	O-C-N	-7.06	114.64	122.12
1	eR	116	GLY	N-CA-C	7.06	121.44	112.83
1	eY	170	LYS	CA-C-O	7.06	128.23	120.82
1	f7	51	ASP	CA-C-N	7.06	129.74	120.28
1	f7	51	ASP	C-N-CA	7.06	129.74	120.28
1	g4	96	MET	N-CA-C	7.06	125.84	110.80
1	j	27	VAL	N-CA-C	7.06	117.82	110.62
1	u	43	LEU	CA-C-O	7.06	128.06	119.31
1	K	96	MET	N-CA-C	7.06	119.42	110.24
1	g9	62	HIS	O-C-N	-7.06	114.11	122.58
1	h7	146	SER	CA-C-O	-7.06	111.70	119.61
1	hh	16	SER	CA-C-N	7.06	127.04	119.28
1	hh	16	SER	C-N-CA	7.06	127.04	119.28
1	ho	127	GLY	CA-C-N	7.06	130.31	120.29
1	ho	127	GLY	C-N-CA	7.06	130.31	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hR	53	ASN	N-CA-C	7.06	118.97	111.28
1	ig	48	THR	CA-C-N	7.06	127.36	119.32
1	ig	48	THR	C-N-CA	7.06	127.36	119.32
1	iC	37	ILE	O-C-N	-7.06	115.90	120.42
1	iS	21	ASN	N-CA-CB	7.06	120.30	110.07
1	iZ	200	THR	CA-CB-OG1	-7.06	99.01	109.60
1	kl	209	ALA	CA-C-N	7.06	131.19	120.82
1	kl	209	ALA	C-N-CA	7.06	131.19	120.82
1	kQ	97	ARG	CA-C-O	7.06	129.03	121.55
1	kR	132	ARG	CA-C-N	7.06	129.62	120.44
1	kR	132	ARG	C-N-CA	7.06	129.62	120.44
1	l2	81	ASP	N-CA-C	7.06	119.83	111.71
1	ld	33	SER	CA-C-N	7.06	127.37	119.32
1	ld	33	SER	C-N-CA	7.06	127.37	119.32
1	lB	42	ALA	N-CA-C	7.06	121.15	112.54
1	2p	198	CYS	N-CA-C	7.06	119.05	111.36
1	2y	113	GLU	O-C-N	-7.06	113.06	122.23
1	3j	195	ASN	CA-CB-CG	7.06	119.66	112.60
1	3x	209	ALA	N-CA-C	7.06	120.46	110.23
1	4x	60	GLY	CA-C-N	7.06	129.53	120.64
1	4x	60	GLY	C-N-CA	7.06	129.53	120.64
1	4y	4	GLN	CG-CD-NE2	-7.06	105.81	116.40
1	5d	82	ARG	NE-CZ-NH2	-7.06	112.85	119.20
1	5n	123	PRO	CA-C-N	-7.06	114.81	122.85
1	5n	123	PRO	C-N-CA	-7.06	114.81	122.85
1	5o	67	GLN	OE1-CD-NE2	-7.06	115.54	122.60
1	5W	27	VAL	O-C-N	7.06	128.72	121.87
1	6h	51	ASP	CA-C-N	7.06	130.60	120.79
1	6h	51	ASP	C-N-CA	7.06	130.60	120.79
1	6h	143	ARG	N-CA-C	7.06	118.76	111.14
1	6J	191	VAL	CA-C-N	7.06	131.04	120.31
1	6J	191	VAL	C-N-CA	7.06	131.04	120.31
1	7m	146	SER	N-CA-C	-7.06	100.87	109.83
1	7M	191	VAL	N-CA-CB	7.06	118.81	110.55
1	7Y	23	TRP	N-CA-C	7.06	118.97	111.28
1	8l	115	ILE	CA-C-N	7.06	129.23	120.34
1	8l	115	ILE	C-N-CA	7.06	129.23	120.34
1	97	202	LEU	CA-C-N	7.06	129.62	120.44
1	97	202	LEU	C-N-CA	7.06	129.62	120.44
1	9I	100	ARG	N-CA-C	7.06	119.09	110.41
1	9K	205	LEU	N-CA-CB	7.06	120.49	110.12
1	9X	81	ASP	CA-CB-CG	7.06	119.66	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Y	89	GLY	O-C-N	-7.06	114.71	121.77
1	ap	189	LEU	N-CA-C	7.06	118.97	111.28
1	aD	128	GLU	CA-C-N	7.06	130.13	120.46
1	aD	128	GLU	C-N-CA	7.06	130.13	120.46
1	aF	127	GLY	CA-C-O	7.06	127.64	120.09
1	ba	190	LEU	N-CA-C	7.06	118.62	111.07
1	c0	226	HIS	O-C-N	7.06	130.19	122.15
1	c8	11	VAL	O-C-N	-7.06	115.21	123.04
1	cI	118	MET	CA-C-O	7.06	128.03	120.55
1	dq	166	ASP	CA-CB-CG	7.06	119.66	112.60
1	dI	118	MET	N-CA-C	7.06	119.87	111.33
1	1o	101	GLY	O-C-N	-7.06	115.32	122.17
1	el	106	GLY	CA-C-N	7.06	129.74	120.28
1	el	106	GLY	C-N-CA	7.06	129.74	120.28
1	eH	187	GLU	CA-C-O	7.06	127.72	119.32
1	eN	28	GLU	N-CA-C	7.06	118.97	111.28
1	eW	143	ARG	NE-CZ-NH2	-7.06	112.85	119.20
1	f2	134	ILE	N-CA-C	7.06	117.82	110.62
1	f8	64	ALA	CA-C-O	7.06	128.07	120.10
1	fz	99	PRO	CB-CA-C	7.06	120.00	111.46
1	fB	99	PRO	CA-C-O	-7.06	113.30	121.34
1	fQ	174	ALA	N-CA-C	7.06	118.62	111.07
1	g5	174	ALA	CA-C-N	7.06	129.74	120.28
1	g5	174	ALA	C-N-CA	7.06	129.74	120.28
1	c	36	VAL	N-CA-CB	-7.06	102.29	110.55
1	L	60	GLY	CA-C-N	7.06	128.50	120.53
1	L	60	GLY	C-N-CA	7.06	128.50	120.53
1	gd	100	ARG	O-C-N	-7.06	112.60	122.76
1	gi	208	ALA	CB-CA-C	-7.06	99.66	111.02
1	gw	179	GLN	O-C-N	-7.06	114.64	122.12
1	gA	188	THR	CA-C-N	7.06	129.74	120.28
1	gA	188	THR	C-N-CA	7.06	129.74	120.28
1	gG	196	PRO	CA-C-N	7.06	130.60	120.79
1	gG	196	PRO	C-N-CA	7.06	130.60	120.79
1	hJ	90	PRO	CB-CA-C	7.06	120.26	111.23
1	i1	13	GLN	CA-C-O	-7.06	113.71	121.33
1	kF	99	PRO	CA-C-O	-7.06	113.06	121.67
1	kQ	195	ASN	CA-CB-CG	7.06	119.66	112.60
1	lM	132	ARG	NE-CZ-NH1	7.06	128.56	121.50
1	3Q	74	ASN	CA-CB-CG	7.06	119.66	112.60
1	5N	206	GLY	CA-C-N	7.06	127.04	119.28
1	5N	206	GLY	C-N-CA	7.06	127.04	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	199	LYS	CA-C-N	7.06	129.61	120.44
1	6G	199	LYS	C-N-CA	7.06	129.61	120.44
1	6H	183	ASN	CA-C-O	7.06	128.83	121.07
1	6R	37	ILE	CA-C-N	7.06	126.54	118.85
1	6R	37	ILE	C-N-CA	7.06	126.54	118.85
1	8v	224	PRO	N-CA-CB	7.06	110.66	103.25
1	9m	47	ALA	N-CA-C	7.06	120.98	109.76
1	9O	169	TYR	CA-C-O	7.06	128.03	120.55
1	ec	48	THR	CA-C-O	-7.06	114.25	120.60
1	fu	103	ASP	CA-C-N	7.06	129.45	120.56
1	fu	103	ASP	C-N-CA	7.06	129.45	120.56
1	g6	85	PRO	CA-C-N	7.06	129.96	120.50
1	g6	85	PRO	C-N-CA	7.06	129.96	120.50
1	1B	204	ALA	N-CA-C	7.06	119.82	111.71
1	e	68	MET	CG-SD-CE	-7.06	85.38	100.90
1	g8	120	HIS	O-C-N	-7.05	113.21	122.59
1	gj	18	ARG	CA-C-N	7.05	129.61	120.44
1	gj	18	ARG	C-N-CA	7.05	129.61	120.44
1	hn	219	GLN	N-CA-C	7.05	119.96	109.59
1	hJ	204	ALA	N-CA-C	7.05	118.97	111.28
1	hP	52	LEU	N-CA-C	7.05	118.97	111.28
1	iq	209	ALA	CA-C-N	7.05	130.73	120.71
1	iq	209	ALA	C-N-CA	7.05	130.73	120.71
1	1U	132	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	jl	12	HIS	ND1-CE1-NE2	7.05	115.45	108.40
1	jO	12	HIS	N-CA-C	7.05	120.90	109.40
1	1Y	52	LEU	O-C-N	-7.05	114.11	122.15
1	kS	193	ASN	OD1-CG-ND2	-7.05	115.55	122.60
1	kX	59	VAL	N-CA-C	7.05	118.98	108.54
1	26	112	GLN	N-CA-C	7.05	120.00	111.82
1	27	226	HIS	O-C-N	7.05	131.87	123.33
1	lE	163	ASP	CA-C-O	7.05	127.90	120.42
1	2i	229	ARG	NH1-CZ-NH2	-7.05	110.13	119.30
1	2v	34	PRO	CA-C-N	7.05	130.44	120.28
1	2v	34	PRO	C-N-CA	7.05	130.44	120.28
1	2T	25	LYS	O-C-N	7.05	129.60	122.12
1	36	79	GLU	N-CA-C	7.05	119.82	111.71
1	3g	178	SER	N-CA-CB	7.05	120.41	110.04
1	3o	136	LEU	CA-C-N	7.05	127.93	120.03
1	3o	136	LEU	C-N-CA	7.05	127.93	120.03
1	3L	145	TYR	CA-C-O	7.05	127.92	119.59
1	3Q	116	GLY	CA-C-N	7.05	130.31	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	116	GLY	C-N-CA	7.05	130.31	120.29
1	59	49	PRO	CA-C-N	7.05	130.06	120.54
1	59	49	PRO	C-N-CA	7.05	130.06	120.54
1	5n	102	SER	N-CA-C	7.05	118.97	111.28
1	5n	228	ALA	N-CA-C	7.05	121.39	111.52
1	6j	180	GLU	CA-C-N	7.05	130.12	120.46
1	6j	180	GLU	C-N-CA	7.05	130.12	120.46
1	6A	183	ASN	CA-CB-CG	-7.05	105.55	112.60
1	7c	161	PHE	CA-CB-CG	-7.05	106.75	113.80
1	7C	131	LYS	CA-C-N	7.05	130.31	120.29
1	7C	131	LYS	C-N-CA	7.05	130.31	120.29
1	9h	82	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	9s	120	HIS	ND1-CE1-NE2	7.05	115.45	108.40
1	ak	226	HIS	CA-C-N	7.05	132.50	120.72
1	ak	226	HIS	C-N-CA	7.05	132.50	120.72
1	aG	73	ILE	N-CA-C	7.05	117.77	110.36
1	aT	9	GLN	N-CA-C	7.05	119.41	110.24
1	b5	53	ASN	N-CA-C	7.05	118.62	111.07
1	bg	80	TRP	CZ3-CH2-CZ2	-7.05	112.33	121.50
1	c4	111	LEU	N-CA-CB	-7.05	99.75	110.12
1	1c	93	PRO	N-CA-C	7.05	127.00	112.47
1	ck	143	ARG	NE-CZ-NH2	7.05	125.55	119.20
1	cP	7	GLN	CA-C-N	7.05	135.24	121.41
1	cP	7	GLN	C-N-CA	7.05	135.24	121.41
1	cT	172	LEU	CA-C-N	7.05	130.04	120.38
1	cT	172	LEU	C-N-CA	7.05	130.04	120.38
1	d7	63	GLN	CA-C-O	-7.05	110.70	119.38
1	dn	180	GLU	CB-CG-CD	7.05	124.59	112.60
1	dv	162	ARG	NE-CZ-NH1	7.05	128.56	121.50
1	eR	29	GLU	N-CA-C	7.05	120.00	111.82
1	eY	46	GLY	CA-C-O	7.05	127.74	119.13
1	fm	18	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	fq	168	PHE	O-C-N	-7.05	114.11	122.15
1	fP	162	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	1B	195	ASN	CA-CB-CG	7.05	119.65	112.60
1	5	181	VAL	CA-C-N	7.05	130.05	120.38
1	5	181	VAL	C-N-CA	7.05	130.05	120.38
1	gy	29	GLU	O-C-N	-7.05	112.98	122.43
1	i1	33	SER	CA-C-N	7.05	127.04	119.28
1	i1	33	SER	C-N-CA	7.05	127.04	119.28
1	iB	70	LYS	N-CA-C	7.05	118.97	111.28
1	jm	58	THR	CA-C-N	7.05	129.45	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	58	THR	C-N-CA	7.05	129.45	120.56
1	jt	159	GLU	CA-C-N	7.05	128.66	119.84
1	jt	159	GLU	C-N-CA	7.05	128.66	119.84
1	1Z	115	ILE	CA-C-N	7.05	127.93	120.03
1	1Z	115	ILE	C-N-CA	7.05	127.93	120.03
1	k6	82	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	kj	70	LYS	N-CA-CB	-7.05	99.75	110.12
1	23	147	PRO	CA-C-N	7.05	131.40	121.24
1	23	147	PRO	C-N-CA	7.05	131.40	121.24
1	kS	230	VAL	O-C-N	-7.05	115.74	122.16
1	kX	179	GLN	CA-C-N	7.05	129.73	120.28
1	kX	179	GLN	C-N-CA	7.05	129.73	120.28
1	2w	94	GLY	CA-C-O	7.05	126.85	119.02
1	2A	150	ILE	CA-C-N	7.05	129.73	120.28
1	2A	150	ILE	C-N-CA	7.05	129.73	120.28
1	30	68	MET	CA-C-O	7.05	128.03	120.55
1	4i	189	LEU	CA-C-N	7.05	129.61	120.44
1	4i	189	LEU	C-N-CA	7.05	129.61	120.44
1	4P	87	HIS	CA-C-N	7.05	132.01	120.94
1	4P	87	HIS	C-N-CA	7.05	132.01	120.94
1	4R	142	VAL	N-CA-C	-7.05	103.41	113.07
1	4W	116	GLY	N-CA-C	7.05	121.19	112.73
1	5R	105	ALA	CA-C-N	7.05	132.23	121.51
1	5R	105	ALA	C-N-CA	7.05	132.23	121.51
1	7p	143	ARG	N-CA-C	7.05	119.05	111.36
1	7A	167	ARG	NE-CZ-NH2	-7.05	112.85	119.20
1	7I	162	ARG	NE-CZ-NH1	7.05	128.55	121.50
1	81	122	PRO	CA-C-N	7.05	126.97	119.85
1	81	122	PRO	C-N-CA	7.05	126.97	119.85
1	9v	73	ILE	N-CA-C	7.05	117.81	110.62
1	9P	84	HIS	ND1-CE1-NE2	7.05	115.45	108.40
1	9P	189	LEU	N-CA-CB	-7.05	99.48	110.06
1	b5	44	SER	N-CA-C	-7.05	104.25	112.92
1	bu	76	GLU	CA-C-O	7.05	128.08	119.97
1	bK	97	ARG	NE-CZ-NH2	-7.05	112.85	119.20
1	dh	63	GLN	CA-C-O	7.05	128.03	120.55
1	es	116	GLY	N-CA-C	7.05	121.43	112.83
1	eF	10	MET	CA-C-N	-7.05	114.44	123.19
1	eF	10	MET	C-N-CA	-7.05	114.44	123.19
1	1v	116	GLY	CA-C-N	7.05	129.61	120.44
1	1v	116	GLY	C-N-CA	7.05	129.61	120.44
1	g0	174	ALA	CA-C-N	7.05	130.84	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g0	174	ALA	C-N-CA	7.05	130.84	120.90
1	gK	138	LEU	CA-C-O	-7.05	112.94	120.42
1	gS	224	PRO	N-CA-C	7.05	127.00	112.47
1	gV	164	TYR	CA-C-O	-7.05	113.44	120.70
1	he	211	LEU	N-CA-CB	7.05	120.49	110.12
1	hl	190	LEU	CA-C-N	7.05	129.44	120.56
1	hl	190	LEU	C-N-CA	7.05	129.44	120.56
1	hV	151	LEU	N-CA-C	-7.05	104.49	113.23
1	iF	35	GLU	O-C-N	-7.05	113.97	122.22
1	1S	25	LYS	N-CA-C	7.05	119.86	111.33
1	j5	92	GLU	N-CA-C	7.05	123.17	113.16
1	jf	143	ARG	CA-C-N	7.05	130.43	120.28
1	jf	143	ARG	C-N-CA	7.05	130.43	120.28
1	js	11	VAL	O-C-N	-7.05	115.05	123.02
1	jG	164	TYR	CA-C-N	7.05	130.12	120.46
1	jG	164	TYR	C-N-CA	7.05	130.12	120.46
1	ka	184	TRP	CA-C-O	7.05	128.02	120.55
1	lj	166	ASP	CA-C-O	-7.05	112.95	120.42
1	28	109	SER	N-CA-CB	7.05	121.65	110.65
1	lD	196	PRO	CA-C-N	7.05	130.30	120.29
1	lD	196	PRO	C-N-CA	7.05	130.30	120.29
1	30	156	GLY	CA-C-N	7.05	126.68	119.56
1	30	156	GLY	C-N-CA	7.05	126.68	119.56
1	37	77	ALA	N-CA-C	7.05	120.00	111.82
1	3j	138	LEU	N-CA-CB	7.05	120.60	110.16
1	3l	26	VAL	N-CA-C	7.05	117.76	110.36
1	5E	159	GLU	CA-C-N	7.05	127.22	120.31
1	5E	159	GLU	C-N-CA	7.05	127.22	120.31
1	5R	195	ASN	O-C-N	-7.05	113.21	121.32
1	5Y	198	CYS	CA-C-N	7.05	129.73	120.28
1	5Y	198	CYS	C-N-CA	7.05	129.73	120.28
1	6g	49	PRO	N-CA-CB	7.05	110.65	103.25
1	6q	139	ASN	CA-CB-CG	-7.05	105.55	112.60
1	72	90	PRO	CA-C-N	7.05	130.01	120.63
1	72	90	PRO	C-N-CA	7.05	130.01	120.63
1	7p	46	GLY	CA-C-N	7.05	131.40	120.75
1	7p	46	GLY	C-N-CA	7.05	131.40	120.75
1	8g	51	ASP	O-C-N	-7.05	114.65	122.12
1	8z	67	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	8U	165	VAL	CA-C-N	7.05	130.59	120.79
1	8U	165	VAL	C-N-CA	7.05	130.59	120.79
1	9b	63	GLN	N-CA-C	7.05	120.00	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	113	GLU	CA-C-O	7.05	128.44	120.90
1	aa	101	GLY	CA-C-N	7.05	129.73	120.28
1	aa	101	GLY	C-N-CA	7.05	129.73	120.28
1	ac	114	GLN	CA-C-N	7.05	130.43	120.42
1	ac	114	GLN	C-N-CA	7.05	130.43	120.42
1	aq	190	LEU	N-CA-C	7.05	118.62	111.07
1	aA	184	TRP	CD2-CE2-CZ2	-7.05	115.35	122.40
1	aZ	211	LEU	N-CA-C	7.05	119.82	111.71
1	bm	82	ARG	NE-CZ-NH2	-7.05	112.85	119.20
1	bK	115	ILE	O-C-N	7.05	128.71	121.87
1	bQ	23	TRP	N-CA-C	7.05	118.61	111.07
1	bU	198	CYS	N-CA-CB	7.05	120.23	110.01
1	cc	228	ALA	N-CA-C	7.05	118.97	111.28
1	cJ	126	VAL	CB-CA-C	-7.05	101.23	112.16
1	dj	50	GLN	N-CA-C	7.05	118.97	111.28
1	dI	209	ALA	CA-C-N	7.05	131.40	120.75
1	dI	209	ALA	C-N-CA	7.05	131.40	120.75
1	dL	28	GLU	N-CA-C	7.05	118.97	111.28
1	dZ	85	PRO	CA-C-N	7.05	129.95	120.50
1	dZ	85	PRO	C-N-CA	7.05	129.95	120.50
1	eg	137	GLY	CA-C-N	7.05	130.06	120.54
1	eg	137	GLY	C-N-CA	7.05	130.06	120.54
1	eg	200	THR	CA-C-N	7.05	129.59	120.56
1	eg	200	THR	C-N-CA	7.05	129.59	120.56
1	eN	13	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	eP	48	THR	O-C-N	-7.05	113.06	121.31
1	fE	133	TRP	N-CA-C	7.05	118.97	111.28
1	g0	82	ARG	CD-NE-CZ	7.05	134.27	124.40
1	j	126	VAL	N-CA-C	7.05	117.81	110.62
1	n	51	ASP	N-CA-C	7.05	119.05	111.36
1	D	185	MET	CG-SD-CE	-7.05	85.39	100.90
1	N	103	ASP	CA-C-N	7.05	130.12	120.46
1	N	103	ASP	C-N-CA	7.05	130.12	120.46
1	gE	181	VAL	CB-CA-C	-7.05	100.67	112.16
1	gP	193	ASN	CA-C-O	7.05	127.91	119.59
1	h6	189	LEU	N-CA-C	7.05	119.86	111.33
1	1I	54	THR	N-CA-CB	7.05	120.48	110.12
1	hw	181	VAL	O-C-N	-7.05	114.57	121.83
1	hx	228	ALA	O-C-N	-7.05	115.22	123.11
1	i0	14	ALA	N-CA-C	7.05	120.71	110.42
1	ii	175	GLU	CB-CG-CD	7.05	124.59	112.60
1	j4	84	HIS	CE1-NE2-CD2	-7.05	101.95	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ja	211	LEU	CA-C-N	7.05	130.06	120.54
1	ja	211	LEU	C-N-CA	7.05	130.06	120.54
1	jE	167	ARG	N-CA-C	7.05	118.97	111.28
1	ks	11	VAL	O-C-N	-7.05	115.57	123.18
1	kA	135	ILE	CB-CA-C	7.05	121.95	112.22
1	la	62	HIS	CB-CG-CD2	-7.05	122.04	131.20
1	lu	84	HIS	CE1-NE2-CD2	-7.05	101.95	109.00
1	lF	71	GLU	CA-C-N	7.05	129.60	120.44
1	lF	71	GLU	C-N-CA	7.05	129.60	120.44
1	lJ	195	ASN	N-CA-CB	-7.05	99.82	110.11
1	2a	40	PHE	CA-C-N	7.05	129.60	120.44
1	2a	40	PHE	C-N-CA	7.05	129.60	120.44
1	2b	144	MET	CG-SD-CE	-7.05	85.39	100.90
1	4I	100	ARG	NH1-CZ-NH2	-7.05	110.14	119.30
1	5f	68	MET	CA-C-N	7.05	130.06	120.54
1	5f	68	MET	C-N-CA	7.05	130.06	120.54
1	5i	53	ASN	OD1-CG-ND2	7.05	129.65	122.60
1	5U	86	VAL	CA-C-N	7.05	130.72	120.71
1	5U	86	VAL	C-N-CA	7.05	130.72	120.71
1	63	22	ALA	CA-C-O	7.05	128.07	120.10
1	6c	190	LEU	N-CA-C	7.05	119.04	111.36
1	6i	195	ASN	CA-C-N	7.05	128.65	119.84
1	6i	195	ASN	C-N-CA	7.05	128.65	119.84
1	6M	41	SER	CA-C-N	7.05	129.72	120.28
1	6M	41	SER	C-N-CA	7.05	129.72	120.28
1	6Q	84	HIS	O-C-N	-7.05	114.90	121.32
1	7g	21	ASN	N-CA-C	7.05	118.96	111.28
1	7o	209	ALA	N-CA-C	7.05	125.81	110.80
1	7q	64	ALA	N-CA-C	7.05	119.62	111.02
1	7q	143	ARG	NH1-CZ-NH2	-7.05	110.14	119.30
1	7w	52	LEU	CA-C-N	7.05	129.73	120.28
1	7w	52	LEU	C-N-CA	7.05	129.73	120.28
1	7z	226	HIS	CA-CB-CG	-7.05	106.75	113.80
1	7V	184	TRP	N-CA-CB	7.05	120.48	110.12
1	8i	97	ARG	CA-C-N	7.05	131.38	120.60
1	8i	97	ARG	C-N-CA	7.05	131.38	120.60
1	96	123	PRO	CA-C-N	-7.05	115.69	123.02
1	96	123	PRO	C-N-CA	-7.05	115.69	123.02
1	9b	24	VAL	CA-C-N	7.05	129.61	120.44
1	9b	24	VAL	C-N-CA	7.05	129.61	120.44
1	9G	157	PRO	N-CA-C	-7.05	105.05	113.86
1	9K	144	MET	N-CA-C	7.05	118.96	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9W	213	GLU	N-CA-C	7.05	119.04	111.36
1	a1	187	GLU	N-CA-C	7.05	118.75	111.14
1	ah	167	ARG	NE-CZ-NH2	7.05	125.54	119.20
1	aA	64	ALA	CA-C-O	7.05	128.02	120.55
1	b8	70	LYS	N-CA-C	7.05	119.57	111.11
1	bk	179	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	bJ	224	PRO	CA-C-N	7.05	128.12	120.44
1	bJ	224	PRO	C-N-CA	7.05	128.12	120.44
1	cz	131	LYS	O-C-N	7.05	129.59	122.12
1	cJ	226	HIS	N-CA-C	-7.05	103.25	112.41
1	cR	90	PRO	N-CA-C	7.05	126.99	112.47
1	di	91	ILE	CA-C-N	7.05	130.73	120.51
1	di	91	ILE	C-N-CA	7.05	130.73	120.51
1	dz	177	ALA	N-CA-C	7.05	121.53	110.32
1	dL	75	GLU	O-C-N	-7.05	114.76	122.09
1	dR	59	VAL	N-CA-C	7.05	118.15	108.84
1	ed	115	ILE	CA-C-O	-7.05	113.62	120.95
1	ee	156	GLY	CA-C-N	7.05	126.68	119.56
1	ee	156	GLY	C-N-CA	7.05	126.68	119.56
1	eA	209	ALA	N-CA-C	7.05	120.60	110.10
1	fh	139	ASN	O-C-N	-7.05	114.65	122.12
1	fM	195	ASN	O-C-N	-7.05	114.43	121.27
1	J	64	ALA	N-CA-C	7.05	118.96	111.28
1	gS	47	ALA	N-CA-C	7.05	120.60	110.10
1	hV	76	GLU	CA-C-N	7.05	129.60	120.44
1	hV	76	GLU	C-N-CA	7.05	129.60	120.44
1	1O	115	ILE	CA-C-N	7.05	127.95	119.99
1	1O	115	ILE	C-N-CA	7.05	127.95	119.99
1	in	50	GLN	N-CA-C	7.05	119.57	111.11
1	iv	182	LYS	CA-C-N	7.05	129.60	120.44
1	iv	182	LYS	C-N-CA	7.05	129.60	120.44
1	1R	149	SER	CA-C-O	7.05	128.12	120.58
1	iW	48	THR	CA-CB-OG1	7.05	120.17	109.60
1	kJ	139	ASN	CA-C-O	-7.05	113.08	120.55
1	ll	154	ARG	CD-NE-CZ	-7.05	114.53	124.40
1	lw	184	TRP	CB-CG-CD2	7.05	136.67	126.80
1	2a	126	VAL	O-C-N	-7.05	113.76	122.57
1	3I	39	MET	CA-C-N	7.05	129.72	120.28
1	3I	39	MET	C-N-CA	7.05	129.72	120.28
1	4o	78	ALA	N-CA-C	7.05	118.96	111.28
1	4r	37	ILE	N-CA-C	7.05	124.10	108.88
1	4v	176	GLN	O-C-N	-7.05	113.88	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4S	40	PHE	CA-CB-CG	-7.05	106.75	113.80
1	50	153	ILE	CB-CA-C	7.05	120.77	111.33
1	5f	91	ILE	CA-C-N	7.05	128.90	120.09
1	5f	91	ILE	C-N-CA	7.05	128.90	120.09
1	5U	164	TYR	CA-C-N	7.05	130.12	120.46
1	5U	164	TYR	C-N-CA	7.05	130.12	120.46
1	7j	153	ILE	O-C-N	-7.05	114.93	122.61
1	7l	51	ASP	CA-C-N	7.05	129.72	120.28
1	7l	51	ASP	C-N-CA	7.05	129.72	120.28
1	7z	158	LYS	N-CA-C	7.05	120.00	111.82
1	8c	27	VAL	O-C-N	-7.05	115.03	121.87
1	8S	133	TRP	O-C-N	-7.05	114.65	122.12
1	9z	124	ILE	O-C-N	-7.05	114.44	120.92
1	ax	24	VAL	N-CA-C	7.05	117.81	110.62
1	ct	37	ILE	N-CA-CB	7.05	115.95	110.45
1	cC	142	VAL	N-CA-C	7.05	118.66	110.62
1	cH	210	THR	O-C-N	-7.05	114.14	122.81
1	cJ	121	ASN	CA-C-O	7.05	125.09	119.59
1	cO	139	ASN	OD1-CG-ND2	-7.05	115.55	122.60
1	eO	19	THR	N-CA-C	7.05	118.61	111.07
1	fm	227	LYS	N-CA-C	7.05	121.34	110.20
1	fI	146	SER	CB-CA-C	-7.05	101.82	109.85
1	g7	160	PRO	CA-C-N	7.05	129.72	120.28
1	g7	160	PRO	C-N-CA	7.05	129.72	120.28
1	C	27	VAL	N-CA-C	7.05	117.84	110.72
1	gn	177	ALA	N-CA-C	7.05	120.22	110.35
1	go	131	LYS	CA-C-O	7.05	128.02	120.55
1	gr	155	GLN	OE1-CD-NE2	-7.05	115.55	122.60
1	gA	80	TRP	CB-CG-CD2	7.05	136.66	126.80
1	h8	111	LEU	N-CA-C	7.05	119.86	111.33
1	hi	223	GLY	O-C-N	-7.05	114.72	121.77
1	hB	39	MET	CA-C-N	7.05	129.72	120.28
1	hB	39	MET	C-N-CA	7.05	129.72	120.28
1	hR	173	ARG	NE-CZ-NH1	-7.05	114.45	121.50
1	ii	218	CYS	N-CA-C	7.05	121.39	111.52
1	iR	100	ARG	NE-CZ-NH2	7.05	125.54	119.20
1	jp	132	ARG	NE-CZ-NH2	-7.05	112.86	119.20
1	1X	132	ARG	CD-NE-CZ	7.05	134.27	124.40
1	jU	88	ALA	N-CA-C	7.05	119.08	110.41
1	kd	78	ALA	N-CA-C	7.05	118.96	111.28
1	kj	23	TRP	CB-CG-CD2	7.05	136.67	126.80
1	kw	182	LYS	N-CA-C	7.05	118.96	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kx	227	LYS	CA-C-N	7.05	129.72	120.28
1	kx	227	LYS	C-N-CA	7.05	129.72	120.28
1	kF	129	ILE	N-CA-C	7.05	117.19	110.42
1	kS	139	ASN	CA-CB-CG	7.05	119.65	112.60
1	3n	70	LYS	CA-C-N	7.05	129.72	120.28
1	3n	70	LYS	C-N-CA	7.05	129.72	120.28
1	3X	67	GLN	CA-C-N	7.05	129.60	120.44
1	3X	67	GLN	C-N-CA	7.05	129.60	120.44
1	4d	87	HIS	N-CA-CB	7.05	120.47	109.83
1	4I	71	GLU	CA-C-N	7.05	130.05	120.54
1	4I	71	GLU	C-N-CA	7.05	130.05	120.54
1	52	88	ALA	CA-C-N	7.05	132.93	121.87
1	52	88	ALA	C-N-CA	7.05	132.93	121.87
1	5z	170	LYS	CA-C-O	7.05	128.02	120.55
1	5O	143	ARG	N-CA-C	7.05	118.61	111.07
1	7j	223	GLY	N-CA-C	7.05	126.71	112.34
1	7m	37	ILE	N-CA-CB	7.05	115.24	110.52
1	8f	211	LEU	CA-C-N	7.05	130.59	120.79
1	8f	211	LEU	C-N-CA	7.05	130.59	120.79
1	9e	166	ASP	CA-C-N	7.05	129.72	120.28
1	9e	166	ASP	C-N-CA	7.05	129.72	120.28
1	ah	195	ASN	CA-CB-CG	7.05	119.65	112.60
1	ai	199	LYS	N-CA-C	7.05	119.86	111.33
1	aN	124	ILE	O-C-N	-7.05	115.96	121.46
1	14	84	HIS	ND1-CE1-NE2	7.05	115.45	108.40
1	aO	180	GLU	CA-C-N	7.05	129.58	120.56
1	aO	180	GLU	C-N-CA	7.05	129.58	120.56
1	b5	107	THR	N-CA-C	-7.05	104.83	113.50
1	bI	114	GLN	N-CA-C	7.05	119.56	111.11
1	cd	229	ARG	O-C-N	-7.05	115.31	123.27
1	cp	193	ASN	N-CA-CB	-7.05	100.20	110.70
1	cq	156	GLY	O-C-N	-7.05	116.08	122.42
1	cq	190	LEU	CA-C-N	7.05	129.44	120.56
1	cq	190	LEU	C-N-CA	7.05	129.44	120.56
1	cH	74	ASN	OD1-CG-ND2	-7.05	115.55	122.60
1	cH	152	ASP	N-CA-C	7.05	118.96	111.28
1	db	10	MET	N-CA-C	7.05	120.96	111.24
1	dB	95	GLN	OE1-CD-NE2	7.05	129.65	122.60
1	e3	166	ASP	CA-CB-CG	7.05	119.65	112.60
1	eL	117	TRP	CB-CG-CD1	-7.05	116.33	126.90
1	fK	152	ASP	CA-C-O	7.05	127.81	119.28
1	1z	200	THR	CA-CB-CG2	7.05	122.48	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	80	TRP	CB-CG-CD1	-7.05	116.33	126.90
1	1J	115	ILE	CB-CA-C	7.04	120.99	111.97
1	hW	23	TRP	CA-C-N	7.04	130.42	120.42
1	hW	23	TRP	C-N-CA	7.04	130.42	120.42
1	ju	90	PRO	O-C-N	-7.04	113.94	122.89
1	kU	75	GLU	N-CA-C	7.04	118.96	111.28
1	2z	162	ARG	NE-CZ-NH2	-7.04	112.86	119.20
1	2I	54	THR	O-C-N	-7.04	114.76	122.09
1	31	86	VAL	CA-C-N	7.04	130.75	120.82
1	31	86	VAL	C-N-CA	7.04	130.75	120.82
1	3u	12	HIS	CA-CB-CG	7.04	120.84	113.80
1	48	223	GLY	CA-C-N	7.04	126.87	119.05
1	48	223	GLY	C-N-CA	7.04	126.87	119.05
1	4I	59	VAL	N-CA-CB	7.04	118.84	110.95
1	6h	178	SER	N-CA-CB	7.04	120.31	110.17
1	7l	215	MET	CB-CA-C	7.04	122.08	110.81
1	7E	78	ALA	CA-C-N	7.04	130.03	120.38
1	7E	78	ALA	C-N-CA	7.04	130.03	120.38
1	83	36	VAL	CA-C-N	7.04	124.68	120.24
1	83	36	VAL	C-N-CA	7.04	124.68	120.24
1	8a	143	ARG	CA-C-N	7.04	129.60	120.44
1	8a	143	ARG	C-N-CA	7.04	129.60	120.44
1	93	84	HIS	CA-C-N	7.04	128.65	119.84
1	93	84	HIS	C-N-CA	7.04	128.65	119.84
1	Z	120	HIS	CE1-NE2-CD2	-7.04	101.95	109.00
1	b3	156	GLY	CA-C-N	7.04	127.03	119.28
1	b3	156	GLY	C-N-CA	7.04	127.03	119.28
1	cQ	87	HIS	CG-CD2-NE2	7.04	114.25	107.20
1	e8	114	GLN	OE1-CD-NE2	-7.04	115.56	122.60
1	es	159	GLU	O-C-N	-7.04	113.54	121.43
1	eG	19	THR	CA-C-O	-7.04	112.95	120.42
1	fl	115	ILE	CA-CB-CG1	7.04	122.38	110.40
1	5	140	LYS	CA-C-N	7.04	129.44	120.56
1	5	140	LYS	C-N-CA	7.04	129.44	120.56
1	gv	162	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	gx	141	ILE	N-CA-C	7.04	117.81	110.62
1	hN	210	THR	CA-C-N	7.04	129.72	120.28
1	hN	210	THR	C-N-CA	7.04	129.72	120.28
1	j0	152	ASP	CA-CB-CG	-7.04	105.56	112.60
1	j4	150	ILE	CA-C-N	7.04	131.02	120.31
1	j4	150	ILE	C-N-CA	7.04	131.02	120.31
1	jc	139	ASN	OD1-CG-ND2	-7.04	115.56	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	142	VAL	N-CA-C	7.04	117.80	110.62
1	jq	104	ILE	CA-C-N	7.04	132.48	120.72
1	jq	104	ILE	C-N-CA	7.04	132.48	120.72
1	jt	5	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	ju	62	HIS	ND1-CE1-NE2	7.04	115.44	108.40
1	1W	89	GLY	CA-C-N	7.04	127.47	119.93
1	1W	89	GLY	C-N-CA	7.04	127.47	119.93
1	jV	228	ALA	CA-C-N	7.04	130.83	120.90
1	jV	228	ALA	C-N-CA	7.04	130.83	120.90
1	k3	146	SER	O-C-N	-7.04	115.32	121.31
1	kj	48	THR	CA-C-O	-7.04	113.28	120.96
1	kV	32	PHE	CA-C-O	7.04	127.97	120.36
1	lf	178	SER	CA-C-N	7.04	129.60	120.44
1	lf	178	SER	C-N-CA	7.04	129.60	120.44
1	27	18	ARG	NE-CZ-NH2	-7.04	112.86	119.20
1	lB	192	GLN	CA-C-O	7.04	128.04	119.38
1	2g	12	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	2H	92	GLU	N-CA-C	7.04	118.59	109.64
1	3B	148	THR	CA-C-O	-7.04	110.44	120.51
1	4U	127	GLY	CA-C-N	7.04	130.05	120.54
1	4U	127	GLY	C-N-CA	7.04	130.05	120.54
1	6l	180	GLU	CB-CA-C	7.04	122.82	110.85
1	6r	12	HIS	CA-CB-CG	7.04	120.84	113.80
1	7p	37	ILE	CA-C-N	7.04	126.87	119.05
1	7p	37	ILE	C-N-CA	7.04	126.87	119.05
1	8w	143	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	8X	89	GLY	CA-C-N	7.04	126.80	119.76
1	8X	89	GLY	C-N-CA	7.04	126.80	119.76
1	9E	194	ALA	CA-C-N	7.04	130.18	120.39
1	9E	194	ALA	C-N-CA	7.04	130.18	120.39
1	9N	84	HIS	CA-C-N	7.04	128.64	119.84
1	9N	84	HIS	C-N-CA	7.04	128.64	119.84
1	Y	213	GLU	CB-CA-C	-7.04	99.77	110.90
1	ad	41	SER	N-CA-C	7.04	119.04	111.36
1	ap	131	LYS	N-CA-C	7.04	119.85	111.33
1	aY	62	HIS	CB-CG-ND1	-7.04	112.14	122.70
1	bf	83	LEU	N-CA-C	7.04	119.81	111.71
1	dW	98	GLU	CA-C-O	-7.04	114.04	119.46
1	ee	51	ASP	CA-C-N	7.04	129.72	120.28
1	ee	51	ASP	C-N-CA	7.04	129.72	120.28
1	ew	108	THR	CA-C-N	7.04	132.93	123.00
1	ew	108	THR	C-N-CA	7.04	132.93	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eI	13	GLN	OE1-CD-NE2	-7.04	115.56	122.60
1	fD	206	GLY	O-C-N	7.04	128.81	121.77
1	fN	132	ARG	N-CA-C	7.04	118.96	111.28
1	V	60	GLY	CA-C-N	7.04	127.03	120.34
1	V	60	GLY	C-N-CA	7.04	127.03	120.34
1	gF	173	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	hh	70	LYS	N-CA-C	7.04	118.61	111.07
1	hJ	195	ASN	CA-C-O	-7.04	113.19	120.02
1	iH	156	GLY	O-C-N	-7.04	114.73	121.77
1	iS	27	VAL	N-CA-C	7.04	117.18	110.42
1	j9	90	PRO	N-CA-C	7.04	122.31	111.11
1	jd	24	VAL	N-CA-C	7.04	117.80	110.62
1	jn	154	ARG	N-CA-CB	-7.04	99.30	111.55
1	jr	226	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	22	41	SER	CA-C-O	-7.04	112.96	120.42
1	kC	32	PHE	N-CA-CB	7.04	120.45	110.24
1	kF	17	PRO	CA-C-N	7.04	129.72	120.28
1	kF	17	PRO	C-N-CA	7.04	129.72	120.28
1	25	117	TRP	CB-CG-CD1	-7.04	116.34	126.90
1	lP	77	ALA	CA-C-O	7.04	127.89	120.42
1	2x	159	GLU	N-CA-CB	7.04	120.07	110.14
1	2C	131	LYS	N-CA-C	7.04	119.85	111.33
1	2Q	163	ASP	CA-CB-CG	7.04	119.64	112.60
1	2S	141	ILE	CB-CA-C	-7.04	101.25	112.16
1	4i	179	GLN	OE1-CD-NE2	-7.04	115.56	122.60
1	4u	168	PHE	CA-CB-CG	7.04	120.84	113.80
1	4U	84	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	56	211	LEU	N-CA-CB	-7.04	99.37	110.28
1	5w	167	ARG	NE-CZ-NH2	-7.04	112.86	119.20
1	5x	185	MET	N-CA-C	7.04	119.81	111.71
1	5y	202	LEU	CA-C-O	7.04	128.21	120.82
1	64	50	GLN	N-CA-C	7.04	118.95	111.28
1	64	62	HIS	CA-C-O	-7.04	113.67	121.84
1	7x	184	TRP	N-CA-C	7.04	118.95	111.28
1	8A	74	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	8G	20	LEU	N-CA-C	7.04	118.65	110.97
1	8H	103	ASP	CA-CB-CG	7.04	119.64	112.60
1	8R	57	ASN	CA-C-N	7.04	130.05	120.54
1	8R	57	ASN	C-N-CA	7.04	130.05	120.54
1	8X	102	SER	N-CA-C	7.04	119.81	111.71
1	95	82	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	9k	204	ALA	N-CA-C	7.04	119.99	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9o	62	HIS	CA-C-N	7.04	131.01	120.31
1	9o	62	HIS	C-N-CA	7.04	131.01	120.31
1	9L	216	THR	CB-CA-C	-7.04	99.10	110.79
1	9P	122	PRO	CA-C-N	7.04	127.03	119.78
1	9P	122	PRO	C-N-CA	7.04	127.03	119.78
1	au	172	LEU	CA-C-O	7.04	127.95	119.43
1	aO	87	HIS	CA-CB-CG	7.04	120.84	113.80
1	bc	69	LEU	CA-C-N	7.04	130.03	120.38
1	bc	69	LEU	C-N-CA	7.04	130.03	120.38
1	ch	194	ALA	N-CA-C	7.04	119.82	110.53
1	cu	132	ARG	CA-C-O	7.04	128.01	120.55
1	di	99	PRO	N-CA-CB	-7.04	96.50	103.19
1	ed	75	GLU	N-CA-C	7.04	119.03	111.36
1	ef	134	ILE	N-CA-C	7.04	117.18	110.42
1	eT	7	GLN	OE1-CD-NE2	-7.04	115.56	122.60
1	eY	78	ALA	N-CA-C	7.04	119.04	111.36
1	1x	180	GLU	O-C-N	-7.04	114.82	122.07
1	1y	62	HIS	CA-CB-CG	-7.04	106.76	113.80
1	g	107	THR	CA-C-O	7.04	127.95	120.70
1	M	212	GLU	N-CA-C	7.04	119.56	111.11
1	hh	125	PRO	CA-C-N	7.04	129.68	120.60
1	hh	125	PRO	C-N-CA	7.04	129.68	120.60
1	hp	84	HIS	ND1-CE1-NE2	7.04	115.44	108.40
1	hr	166	ASP	N-CA-CB	-7.04	99.80	110.01
1	hM	18	ARG	O-C-N	-7.04	114.66	122.12
1	jT	13	GLN	CA-C-N	7.04	131.12	121.05
1	jT	13	GLN	C-N-CA	7.04	131.12	121.05
1	kA	140	LYS	N-CA-C	7.04	118.60	111.07
1	37	97	ARG	O-C-N	-7.04	115.00	122.96
1	3x	195	ASN	CA-CB-CG	7.04	119.64	112.60
1	3F	82	ARG	N-CA-CB	7.04	120.47	110.12
1	3P	30	LYS	CA-C-O	7.04	126.88	119.14
1	4k	178	SER	CA-C-N	7.04	130.04	120.54
1	4k	178	SER	C-N-CA	7.04	130.04	120.54
1	5a	53	ASN	CA-C-N	7.04	129.59	120.44
1	5a	53	ASN	C-N-CA	7.04	129.59	120.44
1	5A	133	TRP	CB-CG-CD1	7.04	137.46	126.90
1	6i	191	VAL	N-CA-C	7.04	117.80	110.62
1	6k	223	GLY	CA-C-N	7.04	127.64	120.04
1	6k	223	GLY	C-N-CA	7.04	127.64	120.04
1	6n	53	ASN	N-CA-C	7.04	118.95	111.28
1	6H	3	VAL	CA-C-O	7.04	128.44	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	186	THR	N-CA-C	7.04	119.81	111.71
1	9d	53	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	aY	182	LYS	CA-C-N	7.04	129.71	120.28
1	aY	182	LYS	C-N-CA	7.04	129.71	120.28
1	c2	52	LEU	N-CA-C	7.04	119.56	111.11
1	cJ	14	ALA	N-CA-C	7.04	120.44	110.23
1	cN	12	HIS	CG-CD2-NE2	7.04	114.24	107.20
1	e0	178	SER	N-CA-C	7.04	120.43	110.50
1	e9	220	GLY	CA-C-N	7.04	131.39	121.96
1	e9	220	GLY	C-N-CA	7.04	131.39	121.96
1	fc	209	ALA	CA-C-O	7.04	129.23	121.56
1	S	140	LYS	CA-C-N	7.04	130.10	120.46
1	S	140	LYS	C-N-CA	7.04	130.10	120.46
1	gI	12	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	hi	74	ASN	CA-CB-CG	-7.04	105.56	112.60
1	hU	138	LEU	N-CA-C	7.04	118.60	111.07
1	i3	204	ALA	CA-C-N	7.04	130.01	120.44
1	i3	204	ALA	C-N-CA	7.04	130.01	120.44
1	ia	172	LEU	N-CA-C	7.04	118.95	111.28
1	j4	167	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	je	133	TRP	CB-CG-CD2	-7.04	116.95	126.80
1	1Y	24	VAL	N-CA-CB	7.04	118.78	110.55
1	lw	83	LEU	CA-C-O	7.04	128.05	120.10
1	2g	186	THR	O-C-N	-7.04	114.82	122.07
1	30	12	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	3m	179	GLN	CA-C-O	7.04	128.01	120.55
1	4Z	11	VAL	O-C-N	-7.04	114.95	122.83
1	5j	142	VAL	CA-C-N	7.04	129.59	120.44
1	5j	142	VAL	C-N-CA	7.04	129.59	120.44
1	5m	194	ALA	O-C-N	-7.04	114.51	122.75
1	5I	187	GLU	N-CA-C	7.04	118.74	111.14
1	6z	201	ILE	CA-C-N	7.04	129.71	120.28
1	6z	201	ILE	C-N-CA	7.04	129.71	120.28
1	7e	74	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	7P	187	GLU	N-CA-C	7.04	118.95	111.28
1	86	162	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	9f	165	VAL	N-CA-CB	7.04	118.32	110.51
1	9s	155	GLN	O-C-N	-7.04	114.80	123.04
1	9R	86	VAL	N-CA-C	7.04	118.72	108.58
1	9Y	33	SER	O-C-N	-7.04	116.34	121.83
1	a8	79	GLU	N-CA-C	7.04	118.95	111.28
1	a9	33	SER	CA-C-N	7.04	126.72	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a9	33	SER	C-N-CA	7.04	126.72	119.82
1	ax	50	GLN	CA-C-N	7.04	129.94	120.65
1	ax	50	GLN	C-N-CA	7.04	129.94	120.65
1	14	12	HIS	CE1-NE2-CD2	-7.04	101.96	109.00
1	b1	44	SER	N-CA-C	7.04	118.95	111.28
1	ci	230	VAL	O-C-N	-7.04	115.09	122.06
1	cj	21	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	cO	56	LEU	N-CA-C	7.04	119.03	111.36
1	d4	11	VAL	O-C-N	-7.04	115.22	123.03
1	d5	46	GLY	O-C-N	-7.04	114.29	122.31
1	dv	62	HIS	CB-CG-CD2	-7.04	122.05	131.20
1	dw	130	TYR	CA-C-N	7.04	129.71	120.28
1	dw	130	TYR	C-N-CA	7.04	129.71	120.28
1	dJ	124	ILE	CA-C-O	-7.04	115.18	119.12
1	ei	183	ASN	O-C-N	-7.04	114.66	122.12
1	ex	87	HIS	CA-CB-CG	7.04	120.84	113.80
1	ey	76	GLU	N-CA-C	7.04	118.95	111.28
1	eU	135	ILE	CB-CA-C	7.04	121.64	112.14
1	eV	127	GLY	O-C-N	-7.04	115.36	122.19
1	fa	89	GLY	O-C-N	-7.04	114.73	121.77
1	fe	100	ARG	CA-C-N	7.04	127.79	119.98
1	fe	100	ARG	C-N-CA	7.04	127.79	119.98
1	fs	191	VAL	CB-CA-C	-7.04	102.64	112.14
1	g2	64	ALA	N-CA-CB	7.04	120.22	110.01
1	g4	62	HIS	CB-CG-ND1	-7.04	112.14	122.70
1	h6	159	GLU	CA-C-O	-7.04	113.05	120.23
1	jz	3	VAL	O-C-N	-7.04	115.13	122.66
1	jC	20	LEU	N-CA-CB	7.04	120.21	110.01
1	kz	69	LEU	O-C-N	-7.04	114.66	122.12
1	kN	41	SER	CA-C-N	7.04	129.71	120.28
1	kN	41	SER	C-N-CA	7.04	129.71	120.28
1	kV	143	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	2h	56	LEU	CA-C-N	7.04	134.98	121.54
1	2h	56	LEU	C-N-CA	7.04	134.98	121.54
1	2N	228	ALA	N-CA-C	7.04	120.16	110.24
1	2R	55	MET	N-CA-C	7.04	118.60	111.07
1	3b	129	ILE	N-CA-C	7.04	117.75	110.36
1	3h	162	ARG	N-CA-C	7.04	119.80	111.71
1	4G	90	PRO	CB-CA-C	7.04	120.20	111.12
1	4I	204	ALA	CA-C-O	7.04	128.05	120.10
1	5q	12	HIS	CG-CD2-NE2	7.04	114.24	107.20
1	66	67	GLN	N-CA-C	7.04	118.60	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	150	ILE	O-C-N	7.04	129.08	121.83
1	8z	42	ALA	N-CA-C	7.04	118.95	111.28
1	8O	118	MET	CA-C-O	7.04	128.09	119.79
1	9p	200	THR	N-CA-CB	7.04	120.21	110.01
1	9W	37	ILE	CB-CA-C	7.04	123.22	114.00
1	al	168	PHE	CA-CB-CG	-7.04	106.76	113.80
1	aI	112	GLN	O-C-N	-7.04	113.00	122.43
1	bw	1	PRO	CA-C-N	7.04	132.27	121.71
1	bw	1	PRO	C-N-CA	7.04	132.27	121.71
1	ch	53	ASN	O-C-N	-7.04	114.55	122.08
1	cP	67	GLN	CA-C-O	7.04	128.21	120.82
1	ey	223	GLY	CA-C-N	7.04	126.29	118.97
1	ey	223	GLY	C-N-CA	7.04	126.29	118.97
1	ga	168	PHE	CB-CA-C	7.04	122.11	110.92
1	gq	40	PHE	CA-CB-CG	-7.04	106.76	113.80
1	gz	152	ASP	CA-CB-CG	7.04	119.64	112.60
1	gI	228	ALA	N-CA-C	7.04	119.92	110.35
1	gJ	159	GLU	N-CA-C	7.04	119.84	109.50
1	hl	171	THR	N-CA-CB	7.04	120.61	110.06
1	hv	200	THR	N-CA-CB	7.04	120.21	110.01
1	hF	40	PHE	O-C-N	7.04	129.58	122.12
1	hH	148	THR	N-CA-C	7.04	120.20	110.35
1	iq	204	ALA	N-CA-CB	-7.04	99.81	110.01
1	jH	205	LEU	O-C-N	-7.04	112.42	122.41
1	jW	89	GLY	N-CA-C	7.04	120.44	112.00
1	ke	184	TRP	N-CA-CB	7.04	120.46	110.12
1	ks	52	LEU	CA-C-O	7.04	128.01	120.55
1	ku	153	ILE	O-C-N	7.04	128.97	121.87
1	kF	87	HIS	O-C-N	-7.04	114.56	122.86
1	kL	159	GLU	CA-C-O	-7.04	112.61	119.51
1	2i	21	ASN	N-CA-C	7.04	118.95	111.28
1	2n	116	GLY	CA-C-N	7.04	129.59	120.44
1	2n	116	GLY	C-N-CA	7.04	129.59	120.44
1	3q	89	GLY	CA-C-N	7.04	128.64	119.84
1	3q	89	GLY	C-N-CA	7.04	128.64	119.84
1	3r	20	LEU	N-CA-C	7.04	118.95	111.28
1	3t	210	THR	CB-CA-C	7.04	120.88	109.90
1	4q	174	ALA	CA-C-N	7.04	130.74	120.82
1	4q	174	ALA	C-N-CA	7.04	130.74	120.82
1	4X	106	GLY	CA-C-O	7.04	126.88	119.00
1	6m	115	ILE	CA-C-N	7.04	127.75	119.94
1	6m	115	ILE	C-N-CA	7.04	127.75	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6n	164	TYR	CA-C-N	7.04	129.43	120.56
1	6n	164	TYR	C-N-CA	7.04	129.43	120.56
1	6x	130	TYR	N-CA-C	7.04	118.60	111.07
1	72	205	LEU	CA-C-N	7.04	132.91	121.87
1	72	205	LEU	C-N-CA	7.04	132.91	121.87
1	7g	142	VAL	CA-C-N	7.04	129.71	120.28
1	7g	142	VAL	C-N-CA	7.04	129.71	120.28
1	7n	157	PRO	O-C-N	-7.04	113.14	122.64
1	7G	229	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	7K	10	MET	N-CA-C	7.04	120.51	109.96
1	7S	216	THR	N-CA-CB	7.04	121.14	110.30
1	7V	62	HIS	ND1-CG-CD2	7.04	113.14	106.10
1	8b	47	ALA	N-CA-CB	-7.04	98.86	110.68
1	8v	21	ASN	CA-C-N	7.04	129.71	120.28
1	8v	21	ASN	C-N-CA	7.04	129.71	120.28
1	8R	74	ASN	CA-CB-CG	7.04	119.64	112.60
1	93	80	TRP	CB-CG-CD2	7.04	136.65	126.80
1	9u	181	VAL	N-CA-C	7.04	117.75	110.36
1	9y	165	VAL	CA-C-N	7.04	129.71	120.28
1	9y	165	VAL	C-N-CA	7.04	129.71	120.28
1	9Q	147	PRO	N-CA-CB	7.04	110.64	103.25
1	an	212	GLU	N-CA-C	7.04	119.84	111.33
1	ay	123	PRO	N-CA-C	7.04	122.73	111.26
1	ca	184	TRP	CA-C-O	7.04	128.03	119.38
1	cd	12	HIS	CA-CB-CG	7.04	120.83	113.80
1	cw	12	HIS	CE1-NE2-CD2	-7.04	101.97	109.00
1	cy	83	LEU	CA-C-O	7.04	127.79	119.56
1	dm	132	ARG	CB-CG-CD	7.04	127.48	111.30
1	dz	117	TRP	O-C-N	-7.04	114.66	122.12
1	dG	133	TRP	N-CA-C	7.04	118.60	111.07
1	e5	56	LEU	N-CA-C	7.04	119.98	111.82
1	ey	69	LEU	CA-C-O	7.04	127.88	120.42
1	eL	83	LEU	O-C-N	-7.04	114.13	122.15
1	eU	183	ASN	OD1-CG-ND2	-7.04	115.56	122.60
1	f1	125	PRO	N-CA-CB	7.04	107.85	102.36
1	f5	18	ARG	NE-CZ-NH2	-7.04	112.87	119.20
1	1y	180	GLU	CA-C-N	7.04	129.43	120.56
1	1y	180	GLU	C-N-CA	7.04	129.43	120.56
1	fS	197	ASP	O-C-N	7.04	129.32	122.07
1	fY	126	VAL	N-CA-C	7.04	117.80	110.62
1	g5	142	VAL	N-CA-C	7.04	117.17	110.42
1	z	184	TRP	CB-CG-CD2	-7.04	116.95	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gR	100	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	hx	201	ILE	O-C-N	-7.03	114.59	121.83
1	hG	19	THR	O-C-N	-7.03	114.83	122.07
1	hL	102	SER	N-CA-C	7.03	119.80	111.71
1	ia	32	PHE	O-C-N	-7.03	112.70	122.41
1	1O	146	SER	CA-C-N	7.03	128.63	119.84
1	1O	146	SER	C-N-CA	7.03	128.63	119.84
1	ig	34	PRO	CA-C-N	7.03	130.41	120.28
1	ig	34	PRO	C-N-CA	7.03	130.41	120.28
1	iB	124	ILE	N-CA-C	-7.03	100.07	107.60
1	iC	62	HIS	ND1-CG-CD2	7.03	113.13	106.10
1	iL	195	ASN	CA-C-O	-7.03	113.20	120.02
1	iM	7	GLN	OE1-CD-NE2	-7.03	115.57	122.60
1	iP	81	ASP	CA-CB-CG	7.03	119.63	112.60
1	jo	167	ARG	NH1-CZ-NH2	-7.03	110.16	119.30
1	js	61	GLY	O-C-N	-7.03	115.53	122.77
1	jv	120	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	jK	91	ILE	CA-C-N	7.03	130.89	120.83
1	jK	91	ILE	C-N-CA	7.03	130.89	120.83
1	k2	14	ALA	O-C-N	-7.03	114.16	122.81
1	k2	206	GLY	O-C-N	-7.03	114.74	121.77
1	kA	129	ILE	N-CA-C	7.03	117.17	110.42
1	23	97	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	2o	133	TRP	CA-C-O	7.03	128.01	120.55
1	33	43	LEU	CA-C-O	7.03	127.79	119.56
1	38	121	ASN	OD1-CG-ND2	7.03	129.63	122.60
1	3e	22	ALA	N-CA-C	7.03	118.95	111.28
1	3o	169	TYR	CA-C-N	7.03	130.01	120.44
1	3o	169	TYR	C-N-CA	7.03	130.01	120.44
1	3y	25	LYS	N-CA-C	7.03	118.95	111.28
1	3z	136	LEU	CA-C-N	7.03	127.79	119.98
1	3z	136	LEU	C-N-CA	7.03	127.79	119.98
1	3L	80	TRP	N-CA-C	7.03	119.84	111.33
1	41	92	GLU	N-CA-C	7.03	114.33	108.07
1	48	101	GLY	CA-C-N	7.03	129.71	120.28
1	48	101	GLY	C-N-CA	7.03	129.71	120.28
1	4M	170	LYS	N-CA-C	7.03	119.80	111.71
1	4T	100	ARG	NE-CZ-NH2	7.03	125.53	119.20
1	5X	33	SER	O-C-N	-7.03	115.05	121.66
1	6a	163	ASP	CA-C-N	7.03	130.03	120.54
1	6a	163	ASP	C-N-CA	7.03	130.03	120.54
1	6f	139	ASN	CA-CB-CG	-7.03	105.57	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6A	127	GLY	CA-C-N	7.03	129.70	120.28
1	6A	127	GLY	C-N-CA	7.03	129.70	120.28
1	6C	174	ALA	O-C-N	-7.03	114.13	122.15
1	6I	22	ALA	CA-C-N	7.03	129.58	120.44
1	6I	22	ALA	C-N-CA	7.03	129.58	120.44
1	6I	27	VAL	O-C-N	-7.03	113.85	121.80
1	6M	14	ALA	N-CA-CB	-7.03	100.38	110.44
1	7M	195	ASN	OD1-CG-ND2	-7.03	115.57	122.60
1	80	59	VAL	N-CA-C	7.03	118.65	109.58
1	89	159	GLU	O-C-N	-7.03	113.96	121.42
1	8c	183	ASN	CA-CB-CG	-7.03	105.57	112.60
1	8K	52	LEU	CA-C-O	7.03	127.94	120.70
1	8P	226	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	8Y	134	ILE	CA-C-N	7.03	129.42	120.56
1	8Y	134	ILE	C-N-CA	7.03	129.42	120.56
1	9h	188	THR	O-C-N	-7.03	112.91	122.33
1	9z	133	TRP	CB-CG-CD1	7.03	137.45	126.90
1	ar	114	GLN	N-CA-C	7.03	119.55	111.11
1	bw	170	LYS	CA-C-N	7.03	130.28	120.29
1	bw	170	LYS	C-N-CA	7.03	130.28	120.29
1	bT	182	LYS	CA-C-N	7.03	129.71	120.28
1	bT	182	LYS	C-N-CA	7.03	129.71	120.28
1	bZ	4	GLN	O-C-N	-7.03	114.22	122.87
1	1d	205	LEU	N-CA-C	7.03	118.95	111.28
1	ci	105	ALA	CA-C-O	7.03	128.15	119.78
1	cr	224	PRO	CA-C-N	7.03	127.03	121.61
1	cr	224	PRO	C-N-CA	7.03	127.03	121.61
1	cL	159	GLU	CA-C-O	-7.03	113.06	120.23
1	dj	20	LEU	CA-C-N	7.03	131.00	120.31
1	dj	20	LEU	C-N-CA	7.03	131.00	120.31
1	dG	16	SER	CA-C-N	7.03	128.63	119.84
1	dG	16	SER	C-N-CA	7.03	128.63	119.84
1	e2	90	PRO	CA-C-N	7.03	130.69	120.91
1	e2	90	PRO	C-N-CA	7.03	130.69	120.91
1	e6	135	ILE	N-CA-C	7.03	117.17	110.42
1	eb	139	ASN	CA-CB-CG	-7.03	105.57	112.60
1	ed	209	ALA	O-C-N	-7.03	113.88	122.25
1	eg	41	SER	CA-C-N	7.03	129.58	120.44
1	eg	41	SER	C-N-CA	7.03	129.58	120.44
1	1u	160	PRO	CA-C-N	7.03	130.41	120.28
1	1u	160	PRO	C-N-CA	7.03	130.41	120.28
1	fB	184	TRP	N-CA-C	7.03	119.55	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fI	214	MET	CA-C-O	7.03	128.01	120.55
1	g6	8	GLY	CA-C-O	7.03	126.56	118.96
1	k	63	GLN	N-CA-C	7.03	118.59	111.07
1	hs	97	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	iA	74	ASN	CA-C-N	7.03	129.58	120.44
1	iA	74	ASN	C-N-CA	7.03	129.58	120.44
1	iP	150	ILE	O-C-N	7.03	128.78	121.89
1	j2	136	LEU	CA-C-O	7.03	128.22	120.63
1	jx	46	GLY	CA-C-N	7.03	130.79	120.95
1	jx	46	GLY	C-N-CA	7.03	130.79	120.95
1	jS	145	TYR	CA-CB-CG	-7.03	101.24	113.90
1	kx	23	TRP	N-CA-C	7.03	119.84	111.33
1	2B	68	MET	O-C-N	-7.03	114.67	122.12
1	2E	100	ARG	O-C-N	-7.03	114.68	122.84
1	2G	126	VAL	N-CA-C	7.03	117.82	110.72
1	3I	62	HIS	N-CA-C	7.03	121.09	111.39
1	3Q	52	LEU	CA-C-N	7.03	129.58	120.44
1	3Q	52	LEU	C-N-CA	7.03	129.58	120.44
1	4l	139	ASN	CA-C-O	-7.03	113.10	120.55
1	5s	142	VAL	N-CA-C	7.03	117.79	110.62
1	5F	151	LEU	CA-C-O	7.03	128.33	119.12
1	5K	198	CYS	N-CA-C	7.03	118.94	111.28
1	6o	74	ASN	O-C-N	-7.03	114.67	122.12
1	7u	54	THR	CA-C-N	7.03	129.70	120.28
1	7u	54	THR	C-N-CA	7.03	129.70	120.28
1	7w	100	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	7M	55	MET	O-C-N	-7.03	114.83	122.07
1	8t	154	ARG	O-C-N	-7.03	115.04	123.27
1	8v	12	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	8W	50	GLN	N-CA-C	7.03	119.84	111.33
1	9f	83	LEU	N-CA-C	7.03	120.75	111.75
1	9E	26	VAL	CB-CA-C	-7.03	102.97	111.97
1	9H	190	LEU	CA-C-O	7.03	128.00	120.55
1	af	38	PRO	CB-CA-C	7.03	122.38	112.11
1	aM	136	LEU	CA-C-O	7.03	128.20	120.82
1	c5	120	HIS	CA-CB-CG	7.03	120.83	113.80
1	cr	73	ILE	N-CA-C	7.03	117.74	110.36
1	cU	141	ILE	O-C-N	-7.03	115.05	121.87
1	eI	155	GLN	O-C-N	-7.03	114.23	122.95
1	f4	5	ASN	CA-CB-CG	7.03	119.63	112.60
1	fJ	14	ALA	N-CA-C	7.03	119.40	110.33
1	fT	57	ASN	N-CA-C	7.03	118.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	167	ARG	NE-CZ-NH2	-7.03	112.87	119.20
1	gt	51	ASP	CA-C-N	7.03	129.58	120.44
1	gt	51	ASP	C-N-CA	7.03	129.58	120.44
1	h5	61	GLY	CA-C-N	7.03	132.12	122.07
1	h5	61	GLY	C-N-CA	7.03	132.12	122.07
1	1H	22	ALA	CA-C-N	7.03	130.03	120.54
1	1H	22	ALA	C-N-CA	7.03	130.03	120.54
1	hI	12	HIS	O-C-N	-7.03	115.11	123.27
1	hI	133	TRP	CA-C-O	7.03	128.06	119.97
1	hP	223	GLY	CA-C-N	7.03	128.63	119.84
1	hP	223	GLY	C-N-CA	7.03	128.63	119.84
1	hQ	78	ALA	CA-C-N	7.03	130.00	120.44
1	hQ	78	ALA	C-N-CA	7.03	130.00	120.44
1	hX	1	PRO	CB-CA-C	7.03	123.46	110.10
1	iR	61	GLY	CA-C-N	7.03	134.97	121.54
1	iR	61	GLY	C-N-CA	7.03	134.97	121.54
1	iY	79	GLU	N-CA-C	7.03	118.59	111.07
1	j7	228	ALA	N-CA-C	7.03	121.36	111.52
1	jr	47	ALA	CA-C-O	-7.03	113.46	121.19
1	jw	5	ASN	CA-CB-CG	7.03	119.63	112.60
1	jM	211	LEU	CA-C-N	7.03	129.70	120.28
1	jM	211	LEU	C-N-CA	7.03	129.70	120.28
1	kd	142	VAL	O-C-N	-7.03	114.91	121.94
1	lM	193	ASN	O-C-N	-7.03	113.88	122.25
1	2y	136	LEU	N-CA-C	7.03	118.94	111.28
1	3v	15	ILE	N-CA-C	7.03	118.12	108.84
1	3M	69	LEU	N-CA-CB	-7.03	99.82	110.01
1	3N	178	SER	CA-C-N	7.03	130.01	120.38
1	3N	178	SER	C-N-CA	7.03	130.01	120.38
1	4o	134	ILE	N-CA-C	7.03	117.17	110.42
1	4x	226	HIS	ND1-CE1-NE2	7.03	115.43	108.40
1	4B	59	VAL	CB-CA-C	-7.03	101.91	111.33
1	5s	226	HIS	N-CA-C	7.03	120.77	111.28
1	65	92	GLU	CA-C-O	-7.03	113.20	120.02
1	6R	162	ARG	N-CA-C	7.03	118.94	111.28
1	7t	220	GLY	CA-C-O	7.03	125.44	119.04
1	7L	226	HIS	CG-CD2-NE2	7.03	114.23	107.20
1	7Y	62	HIS	CB-CG-ND1	-7.03	112.15	122.70
1	8f	177	ALA	O-C-N	-7.03	115.61	123.48
1	8s	141	ILE	N-CA-CB	7.03	118.78	110.55
1	8T	184	TRP	O-C-N	-7.03	114.67	122.12
1	9o	190	LEU	N-CA-C	7.03	118.59	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9H	58	THR	CA-CB-OG1	7.03	120.15	109.60
1	ae	120	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	aY	120	HIS	CA-CB-CG	7.03	120.83	113.80
1	bq	78	ALA	N-CA-C	7.03	118.73	111.14
1	bq	169	TYR	N-CA-C	7.03	119.97	111.82
1	bv	5	ASN	CA-C-O	7.03	126.87	119.14
1	bF	194	ALA	N-CA-C	7.03	119.40	110.33
1	1b	184	TRP	CB-CA-C	7.03	122.46	110.79
1	cF	99	PRO	CB-CA-C	-7.03	102.78	111.64
1	d6	142	VAL	CA-CB-CG1	7.03	122.35	110.40
1	d8	102	SER	CA-C-O	7.03	128.05	119.97
1	dV	73	ILE	O-C-N	-7.03	114.59	121.83
1	eI	131	LYS	N-CA-C	7.03	118.94	111.28
1	eI	160	PRO	N-CA-CB	7.03	109.22	103.32
1	eM	82	ARG	NE-CZ-NH2	7.03	125.53	119.20
1	eT	153	ILE	O-C-N	-7.03	114.95	122.61
1	fj	7	GLN	N-CA-C	7.03	119.81	110.53
1	1x	74	ASN	N-CA-C	7.03	119.98	111.82
1	g	57	ASN	CA-CB-CG	-7.03	105.57	112.60
1	u	12	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	V	37	ILE	CA-C-N	7.03	126.51	118.85
1	V	37	ILE	C-N-CA	7.03	126.51	118.85
1	gH	89	GLY	O-C-N	7.03	128.80	121.77
1	hC	78	ALA	O-C-N	-7.03	114.67	122.12
1	ig	182	LYS	CA-C-N	7.03	129.58	120.44
1	ig	182	LYS	C-N-CA	7.03	129.58	120.44
1	jt	48	THR	CA-C-N	7.03	127.33	119.32
1	jt	48	THR	C-N-CA	7.03	127.33	119.32
1	kt	159	GLU	CA-C-N	7.03	128.63	119.84
1	kt	159	GLU	C-N-CA	7.03	128.63	119.84
1	kJ	58	THR	N-CA-CB	7.03	122.69	110.39
1	lb	195	ASN	CA-C-N	7.03	127.33	119.32
1	lb	195	ASN	C-N-CA	7.03	127.33	119.32
1	lB	50	GLN	CA-C-N	7.03	130.03	120.54
1	lB	50	GLN	C-N-CA	7.03	130.03	120.54
1	3Z	221	VAL	O-C-N	-7.03	115.76	122.16
1	5G	210	THR	CA-CB-CG2	7.03	122.45	110.50
1	69	101	GLY	O-C-N	-7.03	114.62	122.28
1	6c	132	ARG	N-CA-C	7.03	118.59	111.07
1	6m	74	ASN	N-CA-C	7.03	118.94	111.28
1	6n	98	GLU	CA-C-O	-7.03	113.40	120.64
1	6z	136	LEU	N-CA-C	7.03	118.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	108	THR	CA-C-N	7.03	133.12	122.93
1	7Y	108	THR	C-N-CA	7.03	133.12	122.93
1	8c	63	GLN	CA-C-O	-7.03	113.10	120.55
1	8p	134	ILE	CA-C-N	7.03	130.09	120.46
1	8p	134	ILE	C-N-CA	7.03	130.09	120.46
1	8t	212	GLU	CA-C-N	7.03	129.70	120.28
1	8t	212	GLU	C-N-CA	7.03	129.70	120.28
1	9P	177	ALA	N-CA-C	7.03	119.64	110.43
1	bG	120	HIS	CA-CB-CG	7.03	120.83	113.80
1	db	76	GLU	O-C-N	-7.03	114.67	122.12
1	di	29	GLU	O-C-N	-7.03	114.44	122.03
1	dl	173	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	dy	126	VAL	O-C-N	7.03	128.97	121.94
1	dD	148	THR	CA-C-N	7.03	133.12	122.65
1	dD	148	THR	C-N-CA	7.03	133.12	122.65
1	ei	97	ARG	CB-CA-C	7.03	121.88	109.72
1	ew	101	GLY	CA-C-N	7.03	130.27	120.29
1	ew	101	GLY	C-N-CA	7.03	130.27	120.29
1	ex	92	GLU	CA-C-N	7.03	126.73	119.56
1	ex	92	GLU	C-N-CA	7.03	126.73	119.56
1	eZ	70	LYS	N-CA-C	7.03	118.94	111.28
1	fA	7	GLN	CA-C-N	7.03	130.20	121.06
1	fA	7	GLN	C-N-CA	7.03	130.20	121.06
1	gI	134	ILE	N-CA-C	7.03	117.79	110.62
1	gM	94	GLY	CA-C-N	7.03	133.01	122.68
1	gM	94	GLY	C-N-CA	7.03	133.01	122.68
1	h3	124	ILE	CB-CA-C	7.03	117.47	110.94
1	hv	80	TRP	CA-C-O	7.03	127.87	120.42
1	hA	33	SER	O-C-N	-7.03	116.93	121.85
1	hF	66	MET	N-CA-C	7.03	119.54	111.11
1	if	189	LEU	CA-C-O	-7.03	112.97	120.42
1	iu	57	ASN	CA-C-N	7.03	129.57	120.44
1	iu	57	ASN	C-N-CA	7.03	129.57	120.44
1	iz	80	TRP	N-CA-C	7.03	118.94	111.28
1	iK	175	GLU	N-CA-C	7.03	120.42	110.23
1	iS	60	GLY	CA-C-N	7.03	129.97	122.38
1	iS	60	GLY	C-N-CA	7.03	129.97	122.38
1	1U	87	HIS	CE1-NE2-CD2	-7.03	101.97	109.00
1	je	226	HIS	CB-CG-CD2	-7.03	122.06	131.20
1	jC	5	ASN	CA-CB-CG	-7.03	105.57	112.60
1	jU	120	HIS	N-CA-CB	7.03	120.29	110.17
1	kZ	42	ALA	CA-C-N	7.03	129.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kZ	42	ALA	C-N-CA	7.03	129.57	120.44
1	lc	3	VAL	CA-CB-CG2	-7.03	98.45	110.40
1	lM	112	GLN	N-CA-CB	7.03	120.20	110.01
1	2f	13	GLN	OE1-CD-NE2	-7.03	115.57	122.60
1	2T	143	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	3f	15	ILE	O-C-N	-7.03	115.23	122.75
1	4k	120	HIS	ND1-CE1-NE2	7.03	115.43	108.40
1	4G	223	GLY	CA-C-N	7.03	127.07	119.90
1	4G	223	GLY	C-N-CA	7.03	127.07	119.90
1	56	97	ARG	N-CA-C	7.03	119.91	110.35
1	5Y	103	ASP	CA-CB-CG	-7.03	105.57	112.60
1	6u	67	GLN	N-CA-CB	7.03	120.20	110.01
1	6D	212	GLU	N-CA-C	7.03	119.54	111.11
1	6G	182	LYS	CA-C-N	7.03	130.00	120.44
1	6G	182	LYS	C-N-CA	7.03	130.00	120.44
1	70	64	ALA	CA-C-N	7.03	130.27	120.29
1	70	64	ALA	C-N-CA	7.03	130.27	120.29
1	78	151	LEU	O-C-N	-7.03	113.56	122.34
1	7l	133	TRP	CA-C-N	7.03	130.09	120.46
1	7l	133	TRP	C-N-CA	7.03	130.09	120.46
1	7u	104	ILE	N-CA-CB	7.03	119.25	110.47
1	7F	135	ILE	CA-C-N	7.03	129.58	120.44
1	7F	135	ILE	C-N-CA	7.03	129.58	120.44
1	7T	126	VAL	N-CA-C	7.03	117.79	110.62
1	7V	65	ALA	CA-C-N	7.03	129.57	120.44
1	7V	65	ALA	C-N-CA	7.03	129.57	120.44
1	7Z	38	PRO	N-CA-CB	7.03	111.31	103.44
1	8a	206	GLY	CA-C-N	7.03	126.66	119.56
1	8a	206	GLY	C-N-CA	7.03	126.66	119.56
1	8m	84	HIS	CA-CB-CG	-7.03	106.77	113.80
1	8m	126	VAL	N-CA-C	7.03	117.79	110.62
1	8D	95	GLN	CG-CD-NE2	7.03	126.94	116.40
1	91	173	ARG	N-CA-C	7.03	118.94	111.28
1	99	162	ARG	CD-NE-CZ	7.03	134.24	124.40
1	9H	97	ARG	NE-CZ-NH2	-7.03	112.88	119.20
1	9L	135	ILE	CA-C-N	7.03	129.70	120.28
1	9L	135	ILE	C-N-CA	7.03	129.70	120.28
1	9O	108	THR	CA-CB-OG1	7.03	120.14	109.60
1	aA	62	HIS	CB-CG-ND1	-7.03	112.16	122.70
1	bl	78	ALA	O-C-N	-7.03	114.83	122.07
1	bn	195	ASN	CA-C-O	-7.03	113.20	120.02
1	bv	15	ILE	O-C-N	-7.03	115.18	122.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	87	HIS	CB-CG-CD2	-7.03	122.06	131.20
1	c2	168	PHE	CA-CB-CG	7.03	120.83	113.80
1	cs	64	ALA	CA-C-N	7.03	129.57	120.44
1	cs	64	ALA	C-N-CA	7.03	129.57	120.44
1	cN	35	GLU	CA-C-N	7.03	130.64	122.35
1	cN	35	GLU	C-N-CA	7.03	130.64	122.35
1	di	154	ARG	NH1-CZ-NH2	-7.03	110.16	119.30
1	do	146	SER	N-CA-CB	7.03	120.86	109.90
1	du	72	THR	CA-C-N	7.03	129.67	120.60
1	du	72	THR	C-N-CA	7.03	129.67	120.60
1	1n	206	GLY	CA-C-N	7.03	126.64	119.19
1	1n	206	GLY	C-N-CA	7.03	126.64	119.19
1	eb	136	LEU	N-CA-C	7.03	119.54	111.11
1	er	116	GLY	CA-C-O	-7.03	113.81	121.05
1	er	126	VAL	N-CA-C	7.03	117.17	110.42
1	eL	133	TRP	CE2-CD2-CE3	7.03	125.83	118.80
1	fc	220	GLY	CA-C-N	7.03	129.98	120.63
1	fc	220	GLY	C-N-CA	7.03	129.98	120.63
1	1w	16	SER	CA-C-N	7.03	127.01	119.28
1	1w	16	SER	C-N-CA	7.03	127.01	119.28
1	fq	161	PHE	N-CA-CB	7.03	122.37	110.49
1	fu	141	ILE	CB-CA-C	-7.03	102.65	112.14
1	fK	223	GLY	O-C-N	-7.03	114.74	121.77
1	N	183	ASN	OD1-CG-ND2	-7.03	115.57	122.60
1	R	41	SER	O-C-N	-7.03	114.67	122.12
1	5	62	HIS	CB-CA-C	7.03	121.87	111.89
1	gb	152	ASP	CA-CB-CG	7.03	119.63	112.60
1	gi	37	ILE	N-CA-CB	-7.03	104.97	110.45
1	gS	114	GLN	N-CA-C	7.03	118.59	111.07
1	1J	3	VAL	CA-C-O	7.03	127.77	120.39
1	hH	130	TYR	CA-C-N	7.03	129.69	120.28
1	hH	130	TYR	C-N-CA	7.03	129.69	120.28
1	hK	172	LEU	CA-C-O	7.03	128.00	120.55
1	hW	74	ASN	CA-CB-CG	-7.03	105.58	112.60
1	hZ	179	GLN	OE1-CD-NE2	-7.03	115.58	122.60
1	i2	27	VAL	CA-C-O	-7.03	113.25	121.05
1	i6	189	LEU	CA-C-N	7.03	129.69	120.28
1	i6	189	LEU	C-N-CA	7.03	129.69	120.28
1	ix	124	ILE	N-CA-CB	7.03	120.74	111.40
1	iB	114	GLN	CA-C-N	7.03	130.08	120.46
1	iB	114	GLN	C-N-CA	7.03	130.08	120.46
1	iM	215	MET	N-CA-C	7.03	119.83	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	29	GLU	N-CA-C	7.03	118.63	110.97
1	jw	159	GLU	O-C-N	-7.03	115.99	121.47
1	jP	154	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	k4	164	TYR	N-CA-C	7.03	118.73	111.14
1	kL	68	MET	CA-C-N	7.03	129.69	120.28
1	kL	68	MET	C-N-CA	7.03	129.69	120.28
1	l1	117	TRP	CA-C-O	7.03	128.00	120.55
1	l8	63	GLN	N-CA-C	7.03	119.59	111.02
1	ld	130	TYR	N-CA-C	7.03	118.59	111.07
1	lr	103	ASP	N-CA-C	7.03	118.94	111.28
1	2B	169	TYR	CA-C-N	7.03	129.57	120.44
1	2B	169	TYR	C-N-CA	7.03	129.57	120.44
1	2V	92	GLU	O-C-N	-7.03	113.75	120.70
1	2Z	170	LYS	CA-C-N	7.03	129.69	120.28
1	2Z	170	LYS	C-N-CA	7.03	129.69	120.28
1	3L	102	SER	N-CA-C	7.03	119.79	111.71
1	4f	90	PRO	N-CA-C	7.03	126.94	112.47
1	4G	190	LEU	N-CA-CB	-7.03	99.79	110.12
1	4M	9	GLN	N-CA-C	7.03	119.63	110.43
1	4X	33	SER	N-CA-C	-7.03	101.90	108.22
1	5n	199	LYS	CA-C-N	7.03	129.69	120.28
1	5n	199	LYS	C-N-CA	7.03	129.69	120.28
1	5L	41	SER	N-CA-CB	7.03	120.20	110.01
1	6j	92	GLU	CA-C-O	-7.03	111.52	118.34
1	6I	53	ASN	OD1-CG-ND2	-7.03	115.58	122.60
1	6R	161	PHE	N-CA-C	7.03	119.59	111.02
1	8j	165	VAL	CA-C-N	7.03	129.69	120.28
1	8j	165	VAL	C-N-CA	7.03	129.69	120.28
1	91	78	ALA	N-CA-C	7.03	119.02	111.36
1	93	132	ARG	NE-CZ-NH1	7.03	128.53	121.50
1	ac	209	ALA	CA-C-N	7.03	131.97	120.94
1	ac	209	ALA	C-N-CA	7.03	131.97	120.94
1	b5	185	MET	N-CA-C	7.03	118.94	111.28
1	bA	179	GLN	N-CA-C	7.03	119.54	111.11
1	bK	168	PHE	N-CA-C	7.03	118.94	111.28
1	1b	55	MET	N-CA-C	7.03	118.63	110.97
1	cb	181	VAL	O-C-N	-7.03	114.59	121.83
1	cF	73	ILE	CA-CB-CG1	7.03	122.34	110.40
1	e5	107	THR	N-CA-C	7.03	119.02	111.36
1	ed	200	THR	O-C-N	7.03	129.57	122.12
1	ek	104	ILE	CA-C-O	-7.03	113.96	121.27
1	eu	51	ASP	CA-C-O	7.03	128.00	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1t	205	LEU	CA-C-N	7.03	132.90	121.87
1	1t	205	LEU	C-N-CA	7.03	132.90	121.87
1	eR	80	TRP	N-CA-C	7.03	118.94	111.28
1	f3	203	LYS	CA-C-O	7.03	128.22	120.63
1	fD	103	ASP	CA-C-O	7.03	128.00	120.55
1	S	171	THR	CA-C-O	7.03	128.00	120.55
1	gb	29	GLU	N-CA-C	7.02	118.94	111.28
1	gm	62	HIS	ND1-CE1-NE2	7.02	115.42	108.40
1	gt	168	PHE	CA-C-O	7.02	128.19	120.82
1	gt	202	LEU	CA-C-N	7.02	129.57	120.44
1	gt	202	LEU	C-N-CA	7.02	129.57	120.44
1	hg	211	LEU	CA-C-N	7.02	130.02	120.54
1	hg	211	LEU	C-N-CA	7.02	130.02	120.54
1	jU	11	VAL	CA-C-N	7.02	130.72	120.82
1	jU	11	VAL	C-N-CA	7.02	130.72	120.82
1	k1	38	PRO	CA-N-CD	-7.02	102.17	112.00
1	k1	125	PRO	CA-C-O	-7.02	115.97	121.38
1	lo	54	THR	CA-C-N	7.02	129.69	120.28
1	lo	54	THR	C-N-CA	7.02	129.69	120.28
1	2C	119	THR	CA-C-N	7.02	130.84	120.87
1	2C	119	THR	C-N-CA	7.02	130.84	120.87
1	37	12	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	3o	135	ILE	CA-C-N	7.02	129.69	120.28
1	3o	135	ILE	C-N-CA	7.02	129.69	120.28
1	58	223	GLY	CA-C-N	7.02	128.62	119.84
1	58	223	GLY	C-N-CA	7.02	128.62	119.84
1	5t	69	LEU	O-C-N	-7.02	114.78	122.09
1	5P	84	HIS	CA-C-N	7.02	126.64	119.19
1	5P	84	HIS	C-N-CA	7.02	126.64	119.19
1	5T	165	VAL	CA-C-N	7.02	130.26	120.29
1	5T	165	VAL	C-N-CA	7.02	130.26	120.29
1	5U	208	ALA	N-CA-C	-7.02	103.04	112.94
1	7x	162	ARG	CA-C-O	7.02	128.04	120.10
1	7G	62	HIS	CB-CG-ND1	-7.02	112.16	122.70
1	8H	90	PRO	N-CA-CB	7.02	109.19	103.36
1	9V	93	PRO	CB-CA-C	-7.02	101.87	111.21
1	ak	33	SER	O-C-N	-7.02	112.71	121.21
1	aw	3	VAL	O-C-N	-7.02	115.16	122.25
1	aT	117	TRP	CB-CG-CD2	-7.02	116.97	126.80
1	15	180	GLU	CA-C-N	7.02	130.43	120.53
1	15	180	GLU	C-N-CA	7.02	130.43	120.53
1	18	169	TYR	N-CA-C	7.02	118.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	84	HIS	CA-C-N	7.02	126.78	119.76
1	bY	84	HIS	C-N-CA	7.02	126.78	119.76
1	cf	156	GLY	O-C-N	-7.02	114.75	121.77
1	dX	166	ASP	CB-CA-C	7.02	121.91	110.88
1	e9	10	MET	N-CA-C	7.02	119.97	108.52
1	f1	141	ILE	O-C-N	-7.02	115.03	121.91
1	fj	124	ILE	O-C-N	-7.02	114.46	120.92
1	Q	167	ARG	NE-CZ-NH2	7.02	125.52	119.20
1	gn	171	THR	N-CA-C	7.02	118.94	111.28
1	gq	186	THR	CA-C-O	7.02	128.19	120.82
1	gU	51	ASP	CA-CB-CG	-7.02	105.58	112.60
1	h7	118	MET	N-CA-C	7.02	119.79	111.71
1	hc	190	LEU	O-C-N	-7.02	114.79	122.09
1	hj	153	ILE	O-C-N	-7.02	115.23	123.03
1	hn	178	SER	CA-C-O	7.02	129.22	121.56
1	hp	136	LEU	N-CA-C	7.02	118.94	111.28
1	hE	167	ARG	NE-CZ-NH1	-7.02	114.48	121.50
1	hQ	14	ALA	N-CA-C	7.02	120.40	110.50
1	jN	120	HIS	CB-CG-ND1	7.02	133.23	122.70
1	jU	84	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	jZ	87	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	jZ	225	GLY	CA-C-O	7.02	127.98	122.29
1	kr	51	ASP	CA-CB-CG	7.02	119.62	112.60
1	ku	149	SER	N-CA-CB	7.02	122.36	110.49
1	kG	179	GLN	CA-C-N	7.02	129.69	120.28
1	kG	179	GLN	C-N-CA	7.02	129.69	120.28
1	26	185	MET	O-C-N	-7.02	114.73	122.03
1	lc	1	PRO	CB-CA-C	7.02	123.44	110.10
1	le	27	VAL	N-CA-C	7.02	117.16	110.42
1	li	220	GLY	N-CA-C	-7.02	104.93	115.32
1	ln	97	ARG	CA-C-O	7.02	130.02	121.87
1	lt	92	GLU	CA-C-N	7.02	128.62	119.84
1	lt	92	GLU	C-N-CA	7.02	128.62	119.84
1	33	12	HIS	CG-CD2-NE2	7.02	114.22	107.20
1	3F	199	LYS	CA-C-N	7.02	129.69	120.28
1	3F	199	LYS	C-N-CA	7.02	129.69	120.28
1	3H	104	ILE	CA-C-O	7.02	128.25	120.95
1	3O	163	ASP	N-CA-C	7.02	119.79	111.71
1	4j	222	GLY	CA-C-O	7.02	127.60	120.09
1	4O	64	ALA	CA-C-O	7.02	127.86	120.42
1	5J	188	THR	CA-C-N	7.02	129.57	120.44
1	5J	188	THR	C-N-CA	7.02	129.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	116	GLY	CA-C-O	-7.02	112.57	120.30
1	6x	44	SER	O-C-N	-7.02	113.25	122.59
1	6L	141	ILE	CB-CA-C	7.02	120.96	111.97
1	6Z	208	ALA	CB-CA-C	-7.02	98.36	110.09
1	7M	106	GLY	CA-C-N	7.02	129.69	120.28
1	7M	106	GLY	C-N-CA	7.02	129.69	120.28
1	8G	63	GLN	N-CA-C	7.02	118.93	111.28
1	9o	41	SER	N-CA-C	-7.02	103.56	111.07
1	ak	169	TYR	N-CA-C	7.02	118.94	111.28
1	aH	60	GLY	N-CA-C	7.02	120.99	112.49
1	aH	69	LEU	CB-CA-C	7.02	121.91	110.88
1	aU	56	LEU	N-CA-C	7.02	119.02	111.36
1	bh	223	GLY	O-C-N	-7.02	114.75	121.77
1	1e	92	GLU	CA-C-N	7.02	127.27	119.90
1	1e	92	GLU	C-N-CA	7.02	127.27	119.90
1	1f	143	ARG	N-CA-C	7.02	118.93	111.28
1	dd	138	LEU	N-CA-C	7.02	118.94	111.28
1	dd	224	PRO	CA-C-N	7.02	132.26	121.45
1	dd	224	PRO	C-N-CA	7.02	132.26	121.45
1	dR	203	LYS	O-C-N	-7.02	114.68	122.12
1	dX	154	ARG	NE-CZ-NH2	-7.02	112.88	119.20
1	ev	58	THR	N-CA-C	7.02	118.93	111.28
1	eG	12	HIS	CB-CG-CD2	-7.02	122.07	131.20
1	f3	197	ASP	CA-C-N	7.02	129.69	120.28
1	f3	197	ASP	C-N-CA	7.02	129.69	120.28
1	fb	33	SER	CA-C-O	-7.02	114.60	120.71
1	fL	117	TRP	O-C-N	-7.02	114.68	122.12
1	fZ	84	HIS	ND1-CE1-NE2	7.02	115.42	108.40
1	g0	83	LEU	O-C-N	-7.02	114.68	122.12
1	D	17	PRO	CB-CA-C	7.02	122.36	112.11
1	gO	20	LEU	N-CA-C	7.02	119.96	111.82
1	gO	100	ARG	NE-CZ-NH2	7.02	125.52	119.20
1	gU	21	ASN	N-CA-C	7.02	118.58	111.07
1	hA	136	LEU	O-C-N	-7.02	114.68	122.12
1	iK	154	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	lH	154	ARG	N-CA-C	7.02	120.67	110.28
1	2O	25	LYS	N-CA-C	7.02	119.78	111.71
1	3i	177	ALA	O-C-N	-7.02	114.54	122.75
1	4q	145	TYR	CB-CG-CD2	7.02	131.33	120.80
1	4u	212	GLU	O-C-N	-7.02	114.68	122.12
1	63	102	SER	N-CA-C	7.02	118.93	111.28
1	6a	124	ILE	O-C-N	-7.02	113.10	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7f	185	MET	N-CA-C	7.02	119.53	111.11
1	88	62	HIS	N-CA-C	7.02	121.60	111.56
1	9P	152	ASP	CA-CB-CG	-7.02	105.58	112.60
1	9R	220	GLY	CA-C-N	7.02	130.08	120.46
1	9R	220	GLY	C-N-CA	7.02	130.08	120.46
1	9W	42	ALA	N-CA-C	7.02	119.01	111.36
1	at	34	PRO	N-CA-C	7.02	123.99	113.81
1	12	65	ALA	CA-C-O	7.02	127.99	120.55
1	13	95	GLN	O-C-N	-7.02	113.25	122.59
1	aJ	75	GLU	N-CA-CB	7.02	120.19	110.01
1	bh	42	ALA	O-C-N	-7.02	114.68	122.12
1	bT	18	ARG	CA-C-N	7.02	129.69	120.28
1	bT	18	ARG	C-N-CA	7.02	129.69	120.28
1	cY	36	VAL	CA-C-N	7.02	125.95	120.33
1	cY	36	VAL	C-N-CA	7.02	125.95	120.33
1	fQ	100	ARG	CG-CD-NE	-7.02	96.55	112.00
1	m	165	VAL	N-CA-C	7.02	117.78	110.62
1	gj	58	THR	CA-C-N	7.02	130.67	120.91
1	gj	58	THR	C-N-CA	7.02	130.67	120.91
1	gw	6	LEU	N-CA-C	-7.02	98.68	109.14
1	gG	202	LEU	O-C-N	-7.02	114.15	122.15
1	hk	87	HIS	ND1-CE1-NE2	7.02	115.42	108.40
1	hJ	114	GLN	OE1-CD-NE2	-7.02	115.58	122.60
1	hL	223	GLY	O-C-N	-7.02	114.75	121.77
1	hM	72	THR	CA-C-N	7.02	129.40	120.56
1	hM	72	THR	C-N-CA	7.02	129.40	120.56
1	hT	117	TRP	N-CA-C	7.02	119.01	111.36
1	i8	56	LEU	CA-C-N	7.02	129.69	120.28
1	i8	56	LEU	C-N-CA	7.02	129.69	120.28
1	ig	229	ARG	N-CA-C	-7.02	105.07	112.93
1	iL	92	GLU	N-CA-C	7.02	119.59	109.48
1	iX	201	ILE	N-CA-C	7.02	117.78	110.62
1	jn	98	GLU	CA-C-O	-7.02	113.51	119.76
1	jv	72	THR	CA-C-N	7.02	129.40	120.56
1	jv	72	THR	C-N-CA	7.02	129.40	120.56
1	kh	175	GLU	N-CA-C	7.02	119.91	109.59
1	kh	226	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	km	14	ALA	N-CA-CB	7.02	120.28	110.17
1	kR	71	GLU	CA-C-N	7.02	129.69	120.28
1	kR	71	GLU	C-N-CA	7.02	129.69	120.28
1	lz	156	GLY	CA-C-N	7.02	126.50	118.85
1	lz	156	GLY	C-N-CA	7.02	126.50	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	137	GLY	N-CA-C	7.02	120.64	112.50
1	2N	82	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	65	120	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	6C	192	GLN	N-CA-C	7.02	118.93	111.28
1	6M	226	HIS	N-CA-C	-7.02	104.72	113.28
1	79	123	PRO	CA-C-O	-7.02	112.89	121.31
1	7r	173	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	7t	139	ASN	CA-C-O	7.02	127.86	120.42
1	7U	115	ILE	N-CA-C	-7.02	103.93	110.53
1	7V	208	ALA	CA-C-N	7.02	130.80	120.90
1	7V	208	ALA	C-N-CA	7.02	130.80	120.90
1	7Y	175	GLU	N-CA-C	7.02	120.41	110.23
1	8p	22	ALA	N-CA-C	7.02	118.93	111.28
1	a0	40	PHE	CA-CB-CG	-7.02	106.78	113.80
1	a7	200	THR	N-CA-C	7.02	118.58	111.07
1	12	211	LEU	O-C-N	-7.02	114.79	122.09
1	bd	24	VAL	CA-C-N	7.02	129.69	120.28
1	bd	24	VAL	C-N-CA	7.02	129.69	120.28
1	bm	35	GLU	N-CA-C	-7.02	103.64	111.71
1	bp	226	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	bu	186	THR	CA-C-O	7.02	128.01	119.31
1	bG	171	THR	CA-C-O	7.02	128.04	119.97
1	cC	161	PHE	CA-CB-CG	-7.02	106.78	113.80
1	cD	13	GLN	O-C-N	-7.02	114.81	123.44
1	cM	21	ASN	CA-C-N	7.02	129.57	120.44
1	cM	21	ASN	C-N-CA	7.02	129.57	120.44
1	cT	203	LYS	CB-CA-C	-7.02	99.81	110.90
1	cU	166	ASP	CA-CB-CG	7.02	119.62	112.60
1	dv	163	ASP	CA-C-O	-7.02	113.11	120.55
1	dD	12	HIS	CG-CD2-NE2	7.02	114.22	107.20
1	e5	32	PHE	CA-CB-CG	-7.02	106.78	113.80
1	1r	143	ARG	N-CA-CB	7.02	120.55	110.16
1	eX	55	MET	CA-C-O	7.02	128.21	120.63
1	fX	33	SER	N-CA-C	-7.02	99.06	108.11
1	m	163	ASP	CA-C-O	7.02	127.99	120.55
1	M	170	LYS	CA-C-N	7.02	129.99	120.44
1	M	170	LYS	C-N-CA	7.02	129.99	120.44
1	gl	150	ILE	O-C-N	-7.02	115.06	121.87
1	gN	124	ILE	N-CA-CB	7.02	121.03	111.21
1	hx	223	GLY	CA-C-N	7.02	127.05	119.89
1	hx	223	GLY	C-N-CA	7.02	127.05	119.89
1	hy	146	SER	CA-C-O	-7.02	113.51	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hR	10	MET	CG-SD-CE	-7.02	85.46	100.90
1	in	160	PRO	CA-C-O	-7.02	116.12	121.31
1	is	115	ILE	CA-C-N	7.02	127.73	119.94
1	is	115	ILE	C-N-CA	7.02	127.73	119.94
1	is	140	LYS	N-CA-C	7.02	118.58	111.07
1	it	191	VAL	CA-C-N	7.02	130.38	120.28
1	it	191	VAL	C-N-CA	7.02	130.38	120.28
1	iA	183	ASN	O-C-N	-7.02	114.68	122.12
1	iG	207	PRO	N-CA-C	7.02	126.92	112.47
1	iU	104	ILE	N-CA-CB	7.02	119.24	110.47
1	iY	103	ASP	CA-CB-CG	-7.02	105.58	112.60
1	iY	177	ALA	N-CA-C	7.02	125.75	110.80
1	j1	70	LYS	N-CA-C	7.02	118.93	111.28
1	jh	21	ASN	CA-CB-CG	-7.02	105.58	112.60
1	ji	230	VAL	CA-C-O	7.02	129.55	120.78
1	jK	21	ASN	N-CA-C	7.02	118.93	111.28
1	jP	211	LEU	N-CA-C	7.02	119.01	111.36
1	jW	39	MET	N-CA-C	7.02	119.01	111.36
1	ko	97	ARG	CA-C-N	7.02	130.19	120.65
1	ko	97	ARG	C-N-CA	7.02	130.19	120.65
1	kt	12	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	kv	167	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	kA	183	ASN	CA-CB-CG	7.02	119.62	112.60
1	l2	219	GLN	OE1-CD-NE2	-7.02	115.58	122.60
1	ld	169	TYR	N-CA-C	7.02	118.93	111.28
1	lD	81	ASP	N-CA-CB	-7.02	99.49	110.30
1	lG	138	LEU	CA-C-N	7.02	129.68	120.28
1	lG	138	LEU	C-N-CA	7.02	129.68	120.28
1	2z	116	GLY	CA-C-N	7.02	129.56	120.44
1	2z	116	GLY	C-N-CA	7.02	129.56	120.44
1	2C	144	MET	CG-SD-CE	-7.02	85.46	100.90
1	35	103	ASP	O-C-N	7.02	130.15	122.15
1	37	182	LYS	N-CA-C	7.02	118.93	111.28
1	3o	18	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	3I	131	LYS	O-C-N	-7.02	114.68	122.12
1	4m	50	GLN	OE1-CD-NE2	-7.02	115.58	122.60
1	4W	115	ILE	N-CA-CB	7.02	120.08	110.54
1	4X	155	GLN	CA-C-N	7.02	132.89	121.87
1	4X	155	GLN	C-N-CA	7.02	132.89	121.87
1	5d	167	ARG	NE-CZ-NH2	-7.02	112.88	119.20
1	5f	116	GLY	CA-C-N	7.02	129.68	120.28
1	5f	116	GLY	C-N-CA	7.02	129.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5k	119	THR	CA-C-O	7.02	127.87	119.59
1	5K	134	ILE	CA-C-N	7.02	130.07	120.46
1	5K	134	ILE	C-N-CA	7.02	130.07	120.46
1	5N	93	PRO	N-CA-C	7.02	122.37	111.21
1	5Q	90	PRO	N-CA-C	7.02	122.70	111.26
1	60	36	VAL	N-CA-C	7.02	117.81	110.72
1	6g	107	THR	N-CA-C	-7.02	103.90	113.30
1	6S	171	THR	N-CA-CB	7.02	120.55	110.16
1	6X	49	PRO	CB-CA-C	7.02	123.14	111.56
1	73	190	LEU	N-CA-C	7.02	118.58	111.07
1	78	6	LEU	N-CA-C	-7.02	104.19	112.89
1	7N	41	SER	N-CA-CB	7.02	120.19	110.01
1	81	132	ARG	N-CA-C	7.02	119.01	111.36
1	89	151	LEU	N-CA-C	7.02	118.93	111.28
1	8A	84	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	8S	132	ARG	NH1-CZ-NH2	-7.02	110.18	119.30
1	8Z	210	THR	CA-C-N	7.02	129.68	120.28
1	8Z	210	THR	C-N-CA	7.02	129.68	120.28
1	Y	201	ILE	N-CA-CB	7.02	118.30	110.51
1	a5	167	ARG	NH1-CZ-NH2	-7.02	110.18	119.30
1	a7	226	HIS	CE1-NE2-CD2	-7.02	101.98	109.00
1	aq	82	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	at	186	THR	N-CA-CB	7.02	120.44	110.12
1	aH	86	VAL	O-C-N	-7.02	114.89	123.10
1	14	124	ILE	N-CA-C	-7.02	100.09	107.60
1	bz	198	CYS	CA-C-N	7.02	129.68	120.28
1	bz	198	CYS	C-N-CA	7.02	129.68	120.28
1	bM	163	ASP	CA-CB-CG	7.02	119.62	112.60
1	ci	126	VAL	O-C-N	-7.02	114.92	121.94
1	da	37	ILE	O-C-N	-7.02	113.10	121.10
1	dq	80	TRP	CA-C-N	7.02	129.68	120.28
1	dq	80	TRP	C-N-CA	7.02	129.68	120.28
1	f7	72	THR	N-CA-C	7.02	119.82	111.33
1	f9	184	TRP	CA-C-O	-7.02	112.98	120.42
1	1A	114	GLN	CA-C-O	-7.02	113.45	120.82
1	h	129	ILE	CB-CA-C	-7.02	102.83	112.02
1	u	146	SER	CA-C-O	-7.02	110.55	120.16
1	y	74	ASN	N-CA-C	7.02	118.93	111.28
1	ha	30	LYS	O-C-N	7.02	130.67	122.25
1	iN	124	ILE	O-C-N	-7.02	114.59	121.12
1	iP	168	PHE	N-CA-CB	-7.02	99.81	110.12
1	lp	192	GLN	N-CA-C	7.02	119.53	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lr	103	ASP	O-C-N	7.02	129.56	122.12
1	2a	48	THR	CA-C-O	-7.02	113.02	120.88
1	2x	26	VAL	CA-C-O	7.02	128.57	121.27
1	38	214	MET	N-CA-C	7.02	119.82	111.33
1	3C	194	ALA	O-C-N	-7.02	114.79	122.79
1	4E	167	ARG	O-C-N	-7.02	114.51	122.09
1	4Q	217	ALA	N-CA-C	7.02	118.58	111.07
1	5m	19	THR	N-CA-C	-7.02	103.63	111.28
1	6A	136	LEU	N-CA-C	7.02	119.82	111.33
1	70	100	ARG	NE-CZ-NH1	7.02	128.52	121.50
1	7o	82	ARG	O-C-N	-7.02	114.51	122.09
1	7x	215	MET	O-C-N	-7.02	114.68	122.12
1	7E	181	VAL	CA-C-N	7.02	130.97	120.31
1	7E	181	VAL	C-N-CA	7.02	130.97	120.31
1	7L	121	ASN	CA-C-O	-7.02	114.12	119.59
1	8C	175	GLU	N-CA-C	7.02	120.55	110.10
1	ab	152	ASP	CA-CB-CG	7.02	119.62	112.60
1	1d	95	GLN	N-CA-C	7.02	120.55	110.24
1	cu	159	GLU	CA-C-N	7.02	127.05	119.89
1	cu	159	GLU	C-N-CA	7.02	127.05	119.89
1	dk	200	THR	CA-C-N	7.02	129.40	120.56
1	dk	200	THR	C-N-CA	7.02	129.40	120.56
1	eC	20	LEU	O-C-N	-7.02	114.68	122.12
1	eH	223	GLY	O-C-N	-7.02	116.11	122.42
1	f5	129	ILE	CA-C-N	7.02	130.25	120.29
1	f5	129	ILE	C-N-CA	7.02	130.25	120.29
1	fv	107	THR	N-CA-CB	7.02	120.18	110.01
1	fQ	93	PRO	CA-C-N	7.02	131.22	121.26
1	fQ	93	PRO	C-N-CA	7.02	131.22	121.26
1	gH	21	ASN	N-CA-CB	-7.01	99.81	110.12
1	gY	176	GLN	CA-C-N	7.01	133.03	121.39
1	gY	176	GLN	C-N-CA	7.01	133.03	121.39
1	h9	84	HIS	CB-CG-CD2	-7.01	122.08	131.20
1	hG	38	PRO	N-CA-C	-7.01	104.00	113.40
1	hP	182	LYS	N-CA-C	7.01	118.93	111.28
1	i8	146	SER	CA-C-N	7.01	126.53	119.24
1	i8	146	SER	C-N-CA	7.01	126.53	119.24
1	1O	150	ILE	CA-C-O	7.01	127.64	119.36
1	iB	143	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	1T	42	ALA	N-CA-C	7.01	119.53	111.11
1	jd	170	LYS	CA-C-N	7.01	129.68	120.28
1	jd	170	LYS	C-N-CA	7.01	129.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	110	THR	CA-C-N	7.01	129.68	120.28
1	jm	110	THR	C-N-CA	7.01	129.68	120.28
1	jw	168	PHE	CA-C-N	7.01	130.25	120.29
1	jw	168	PHE	C-N-CA	7.01	130.25	120.29
1	ky	198	CYS	N-CA-C	7.01	119.82	111.33
1	kK	194	ALA	N-CA-C	7.01	125.74	110.80
1	kX	161	PHE	CA-CB-CG	7.01	120.81	113.80
1	kX	223	GLY	CA-C-N	7.01	127.44	119.93
1	kX	223	GLY	C-N-CA	7.01	127.44	119.93
1	lp	135	ILE	N-CA-CB	7.01	120.08	110.54
1	2c	50	GLN	OE1-CD-NE2	-7.01	115.58	122.60
1	2f	62	HIS	ND1-CG-CD2	7.01	113.11	106.10
1	32	62	HIS	ND1-CG-CD2	7.01	113.11	106.10
1	33	81	ASP	CA-C-N	7.01	129.68	120.28
1	33	81	ASP	C-N-CA	7.01	129.68	120.28
1	36	32	PHE	CA-C-N	7.01	130.68	120.51
1	36	32	PHE	C-N-CA	7.01	130.68	120.51
1	4A	132	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	4P	19	THR	N-CA-C	-7.01	103.72	111.36
1	50	156	GLY	CA-C-N	7.01	128.61	119.84
1	50	156	GLY	C-N-CA	7.01	128.61	119.84
1	5R	73	ILE	N-CA-CB	7.01	118.27	110.62
1	5X	42	ALA	N-CA-C	7.01	119.01	111.36
1	6s	75	GLU	N-CA-C	7.01	118.58	111.07
1	6z	1	PRO	N-CA-CB	7.01	110.72	103.00
1	6C	41	SER	N-CA-CB	7.01	120.43	110.12
1	71	75	GLU	O-C-N	-7.01	114.68	122.12
1	73	87	HIS	CA-CB-CG	-7.01	106.79	113.80
1	7s	5	ASN	N-CA-C	7.01	118.93	111.28
1	8k	153	ILE	N-CA-C	7.01	118.14	110.21
1	8q	102	SER	O-C-N	-7.01	114.01	122.22
1	8U	192	GLN	O-C-N	-7.01	114.15	122.15
1	8X	68	MET	O-C-N	-7.01	114.15	122.15
1	9s	8	GLY	CA-C-N	7.01	133.52	123.14
1	9s	8	GLY	C-N-CA	7.01	133.52	123.14
1	9K	177	ALA	N-CA-C	7.01	125.74	110.80
1	9Y	50	GLN	O-C-N	7.01	129.38	122.09
1	aV	119	THR	CA-C-N	7.01	131.95	120.94
1	aV	119	THR	C-N-CA	7.01	131.95	120.94
1	1d	173	ARG	CA-C-N	7.01	129.68	120.28
1	1d	173	ARG	C-N-CA	7.01	129.68	120.28
1	cw	18	ARG	N-CA-C	7.01	119.53	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cy	36	VAL	N-CA-C	7.01	117.81	110.72
1	cS	100	ARG	CA-C-N	7.01	127.89	120.03
1	cS	100	ARG	C-N-CA	7.01	127.89	120.03
1	cY	217	ALA	N-CA-C	7.01	118.89	110.19
1	da	50	GLN	O-C-N	-7.01	114.69	122.12
1	dd	83	LEU	CA-C-O	7.01	128.07	119.79
1	dz	22	ALA	CA-C-N	7.01	129.68	120.28
1	dz	22	ALA	C-N-CA	7.01	129.68	120.28
1	e8	7	GLN	CB-CG-CD	7.01	124.53	112.60
1	ee	164	TYR	N-CA-C	7.01	118.93	111.28
1	eD	162	ARG	O-C-N	-7.01	114.80	122.09
1	eW	23	TRP	CA-C-N	7.01	130.38	120.42
1	eW	23	TRP	C-N-CA	7.01	130.38	120.42
1	fr	213	GLU	N-CA-C	7.01	118.58	111.07
1	fW	12	HIS	O-C-N	-7.01	114.11	123.23
1	2	143	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	v	186	THR	CA-C-O	7.01	128.19	120.82
1	gj	194	ALA	CA-C-N	7.01	131.33	120.60
1	gj	194	ALA	C-N-CA	7.01	131.33	120.60
1	h3	18	ARG	O-C-N	-7.01	114.69	122.12
1	hd	69	LEU	CA-C-N	7.01	129.68	120.28
1	hd	69	LEU	C-N-CA	7.01	129.68	120.28
1	iE	30	LYS	N-CA-C	7.01	119.78	111.71
1	jd	141	ILE	N-CA-CB	7.01	118.75	110.55
1	jt	118	MET	N-CA-C	7.01	121.09	112.54
1	jI	123	PRO	N-CA-CB	7.01	110.61	103.25
1	ks	155	GLN	N-CA-C	-7.01	97.98	108.99
1	kL	133	TRP	N-CA-C	7.01	118.92	111.28
1	li	26	VAL	O-C-N	-7.01	114.93	121.94
1	4d	159	GLU	CA-C-N	7.01	127.04	119.89
1	4d	159	GLU	C-N-CA	7.01	127.04	119.89
1	4r	31	ALA	N-CA-C	7.01	119.78	111.71
1	5G	25	LYS	O-C-N	-7.01	114.69	122.12
1	6t	168	PHE	O-C-N	-7.01	114.69	122.12
1	6N	113	GLU	N-CA-C	7.01	119.96	111.82
1	6O	170	LYS	N-CA-C	7.01	118.92	111.28
1	7n	168	PHE	CA-C-O	-7.01	113.12	120.55
1	7o	87	HIS	CE1-NE2-CD2	-7.01	101.99	109.00
1	7R	74	ASN	N-CA-C	7.01	119.95	111.82
1	9X	54	THR	N-CA-CB	7.01	120.43	110.12
1	ao	114	GLN	N-CA-C	7.01	119.53	111.11
1	ca	74	ASN	CA-C-N	7.01	130.01	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	74	ASN	C-N-CA	7.01	130.01	120.54
1	cc	7	GLN	CA-C-O	7.01	126.86	119.14
1	eJ	88	ALA	N-CA-C	7.01	120.61	108.76
1	ff	133	TRP	N-CA-C	7.01	118.92	111.28
1	fX	76	GLU	CA-C-N	7.01	129.91	120.65
1	fX	76	GLU	C-N-CA	7.01	129.91	120.65
1	l	221	VAL	O-C-N	-7.01	115.07	122.57
1	B	215	MET	N-CA-C	7.01	119.58	111.02
1	gc	164	TYR	O-C-N	7.01	129.38	122.09
1	gy	12	HIS	CA-CB-CG	7.01	120.81	113.80
1	gB	215	MET	N-CA-C	7.01	120.93	112.38
1	1M	12	HIS	CG-CD2-NE2	7.01	114.21	107.20
1	iH	26	VAL	N-CA-CB	7.01	120.08	110.54
1	1U	58	THR	N-CA-CB	7.01	121.83	110.40
1	jX	119	THR	N-CA-CB	7.01	121.47	110.46
1	k8	63	GLN	OE1-CD-NE2	-7.01	115.59	122.60
1	kx	14	ALA	O-C-N	-7.01	114.34	122.89
1	ky	91	ILE	N-CA-CB	7.01	118.80	110.95
1	kT	143	ARG	NH1-CZ-NH2	-7.01	110.19	119.30
1	l1	22	ALA	N-CA-C	7.01	118.92	111.28
1	l1	95	GLN	OE1-CD-NE2	-7.01	115.59	122.60
1	lc	108	THR	CA-C-O	7.01	128.44	119.95
1	lp	155	GLN	OE1-CD-NE2	7.01	129.61	122.60
1	lD	140	LYS	N-CA-C	7.01	119.00	111.36
1	lH	186	THR	N-CA-C	7.01	119.52	111.11
1	lM	135	ILE	N-CA-C	7.01	117.77	110.62
1	2n	204	ALA	O-C-N	-7.01	114.85	122.07
1	3d	177	ALA	N-CA-CB	7.01	120.51	109.71
1	3z	100	ARG	CA-C-N	7.01	127.76	119.98
1	3z	100	ARG	C-N-CA	7.01	127.76	119.98
1	3U	107	THR	CA-CB-CG2	7.01	122.42	110.50
1	3V	166	ASP	N-CA-CB	-7.01	99.81	110.12
1	44	33	SER	CA-C-N	7.01	128.60	119.84
1	44	33	SER	C-N-CA	7.01	128.60	119.84
1	4K	109	SER	O-C-N	-7.01	115.21	123.41
1	4M	162	ARG	N-CA-C	7.01	118.57	111.07
1	50	57	ASN	CA-CB-CG	-7.01	105.59	112.60
1	5s	186	THR	N-CA-CB	7.01	120.18	110.01
1	62	79	GLU	N-CA-C	7.01	118.92	111.28
1	6f	185	MET	N-CA-C	7.01	118.92	111.28
1	6Z	72	THR	N-CA-CB	7.01	120.18	110.01
1	7b	195	ASN	CA-CB-CG	-7.01	105.59	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7K	113	GLU	CA-C-N	7.01	129.56	120.44
1	7K	113	GLU	C-N-CA	7.01	129.56	120.44
1	81	141	ILE	O-C-N	-7.01	115.07	121.87
1	8R	9	GLN	O-C-N	-7.01	114.59	122.86
1	9p	41	SER	N-CA-C	7.01	119.00	111.36
1	9p	205	LEU	CA-C-O	7.01	127.98	120.55
1	9p	230	VAL	N-CA-C	7.01	118.84	109.37
1	a8	12	HIS	ND1-CE1-NE2	7.01	115.41	108.40
1	al	158	LYS	N-CA-C	-7.01	103.06	112.94
1	an	174	ALA	N-CA-C	-7.01	103.09	113.61
1	ar	155	GLN	CA-C-O	7.01	127.93	120.36
1	aI	160	PRO	CA-C-N	7.01	129.56	120.44
1	aI	160	PRO	C-N-CA	7.01	129.56	120.44
1	b7	92	GLU	CA-C-N	7.01	126.71	119.56
1	b7	92	GLU	C-N-CA	7.01	126.71	119.56
1	bi	12	HIS	CE1-NE2-CD2	-7.01	101.99	109.00
1	bw	8	GLY	CA-C-O	7.01	129.24	121.67
1	ce	30	LYS	CA-C-N	7.01	134.93	121.54
1	ce	30	LYS	C-N-CA	7.01	134.93	121.54
1	cA	12	HIS	CE1-NE2-CD2	-7.01	101.99	109.00
1	cF	199	LYS	N-CA-C	7.01	119.00	111.36
1	cO	152	ASP	CA-CB-CG	-7.01	105.59	112.60
1	de	159	GLU	CA-C-N	7.01	126.98	119.76
1	de	159	GLU	C-N-CA	7.01	126.98	119.76
1	1n	129	ILE	CA-CB-CG2	7.01	122.42	110.50
1	e0	206	GLY	CA-C-N	7.01	126.99	119.28
1	e0	206	GLY	C-N-CA	7.01	126.99	119.28
1	em	143	ARG	NE-CZ-NH1	-7.01	114.49	121.50
1	em	219	GLN	OE1-CD-NE2	-7.01	115.59	122.60
1	ew	201	ILE	O-C-N	-7.01	115.04	121.91
1	eN	62	HIS	ND1-CG-CD2	7.01	113.11	106.10
1	eP	86	VAL	N-CA-CB	7.01	120.24	110.56
1	ff	165	VAL	N-CA-C	7.01	117.77	110.62
1	fh	66	MET	CG-SD-CE	-7.01	85.47	100.90
1	fs	47	ALA	N-CA-C	7.01	120.66	110.28
1	1y	142	VAL	N-CA-C	7.01	117.15	110.42
1	fS	111	LEU	N-CA-C	7.01	119.81	111.33
1	fY	63	GLN	OE1-CD-NE2	-7.01	115.59	122.60
1	S	204	ALA	CA-C-N	7.01	129.56	120.44
1	S	204	ALA	C-N-CA	7.01	129.56	120.44
1	ga	120	HIS	CB-CG-CD2	-7.01	122.09	131.20
1	gq	74	ASN	CA-C-N	7.01	129.55	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gq	74	ASN	C-N-CA	7.01	129.55	120.44
1	gs	34	PRO	CA-C-N	7.01	129.67	120.28
1	gs	34	PRO	C-N-CA	7.01	129.67	120.28
1	gV	62	HIS	CA-CB-CG	-7.01	106.79	113.80
1	hn	126	VAL	O-C-N	-7.01	113.81	122.57
1	hP	207	PRO	CA-C-N	7.01	130.24	120.29
1	hP	207	PRO	C-N-CA	7.01	130.24	120.29
1	hV	178	SER	N-CA-C	7.01	120.39	110.23
1	i2	112	GLN	CA-C-N	7.01	129.67	120.28
1	i2	112	GLN	C-N-CA	7.01	129.67	120.28
1	ic	179	GLN	N-CA-C	7.01	118.92	111.28
1	iv	18	ARG	CA-C-N	7.01	129.67	120.28
1	iv	18	ARG	C-N-CA	7.01	129.67	120.28
1	iU	152	ASP	CA-CB-CG	7.01	119.61	112.60
1	j7	168	PHE	O-C-N	-7.01	114.85	122.07
1	ji	210	THR	CA-C-O	7.01	129.20	121.56
1	jp	193	ASN	OD1-CG-ND2	-7.01	115.59	122.60
1	kd	50	GLN	N-CA-C	7.01	118.57	111.07
1	21	59	VAL	O-C-N	-7.01	115.03	122.67
1	kE	113	GLU	CA-C-O	7.01	127.98	120.55
1	le	74	ASN	OD1-CG-ND2	-7.01	115.59	122.60
1	27	48	THR	N-CA-CB	7.01	118.66	109.55
1	li	211	LEU	CA-C-N	7.01	129.98	120.38
1	li	211	LEU	C-N-CA	7.01	129.98	120.38
1	lj	203	LYS	CA-C-N	7.01	129.67	120.28
1	lj	203	LYS	C-N-CA	7.01	129.67	120.28
1	2D	95	GLN	CA-C-O	7.01	129.08	121.16
1	2P	192	GLN	N-CA-C	7.01	120.72	111.75
1	34	47	ALA	O-C-N	-7.01	114.59	122.86
1	34	186	THR	N-CA-CB	7.01	120.17	110.01
1	39	72	THR	CA-C-N	7.01	129.39	120.56
1	39	72	THR	C-N-CA	7.01	129.39	120.56
1	3a	221	VAL	CA-C-N	7.01	126.76	120.10
1	3a	221	VAL	C-N-CA	7.01	126.76	120.10
1	3z	120	HIS	N-CA-C	7.01	119.37	110.33
1	3W	14	ALA	CA-C-N	7.01	129.95	120.63
1	3W	14	ALA	C-N-CA	7.01	129.95	120.63
1	48	83	LEU	N-CA-CB	-7.01	98.97	110.40
1	4o	68	MET	N-CA-C	7.01	119.95	111.82
1	4t	19	THR	CA-C-O	7.01	127.85	120.42
1	4u	82	ARG	NE-CZ-NH2	-7.01	112.89	119.20
1	4C	195	ASN	CA-C-N	7.01	127.31	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	195	ASN	C-N-CA	7.01	127.31	119.32
1	4M	102	SER	CA-C-N	7.01	129.55	120.44
1	4M	102	SER	C-N-CA	7.01	129.55	120.44
1	5o	153	ILE	CB-CA-C	7.01	122.79	111.29
1	6m	140	LYS	O-C-N	-7.01	114.69	122.12
1	6s	125	PRO	CA-C-N	7.01	130.41	120.53
1	6s	125	PRO	C-N-CA	7.01	130.41	120.53
1	6C	9	GLN	N-CA-CB	7.01	122.34	110.49
1	7D	106	GLY	CA-C-N	7.01	130.00	120.54
1	7D	106	GLY	C-N-CA	7.01	130.00	120.54
1	8d	69	LEU	CA-C-N	7.01	130.00	120.54
1	8d	69	LEU	C-N-CA	7.01	130.00	120.54
1	8x	86	VAL	N-CA-CB	-7.01	102.58	110.99
1	8J	87	HIS	CE1-NE2-CD2	-7.01	101.99	109.00
1	8Q	214	MET	N-CA-CB	7.01	120.39	109.94
1	9a	16	SER	CA-C-N	7.01	126.64	119.56
1	9a	16	SER	C-N-CA	7.01	126.64	119.56
1	9h	200	THR	N-CA-CB	7.01	120.42	110.12
1	av	51	ASP	CA-C-N	7.01	129.55	120.44
1	av	51	ASP	C-N-CA	7.01	129.55	120.44
1	b8	75	GLU	O-C-N	-7.01	114.16	122.15
1	cH	162	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	d7	23	TRP	N-CA-C	7.01	118.92	111.28
1	dx	204	ALA	CA-C-N	7.01	129.67	120.28
1	dx	204	ALA	C-N-CA	7.01	129.67	120.28
1	eh	186	THR	N-CA-CB	7.01	120.23	110.07
1	fb	23	TRP	CA-C-N	7.01	129.39	120.56
1	fb	23	TRP	C-N-CA	7.01	129.39	120.56
1	fu	158	LYS	N-CA-C	-7.01	103.84	112.88
1	fE	207	PRO	N-CA-C	-7.01	104.75	114.98
1	fJ	186	THR	CA-C-N	7.01	129.55	120.44
1	fJ	186	THR	C-N-CA	7.01	129.55	120.44
1	1z	117	TRP	N-CA-CB	7.01	120.42	110.12
1	1z	226	HIS	O-C-N	-7.01	113.93	122.20
1	n	97	ARG	NE-CZ-NH2	-7.01	112.89	119.20
1	s	79	GLU	CA-C-N	7.01	129.67	120.28
1	s	79	GLU	C-N-CA	7.01	129.67	120.28
1	3	177	ALA	N-CA-C	7.01	119.35	110.24
1	U	117	TRP	CA-C-N	7.01	129.98	120.38
1	U	117	TRP	C-N-CA	7.01	129.98	120.38
1	gL	171	THR	N-CA-CB	7.01	120.38	109.94
1	gP	89	GLY	O-C-N	-7.01	114.76	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gZ	56	LEU	CA-C-O	7.01	127.80	119.60
1	h4	84	HIS	O-C-N	-7.01	115.21	121.17
1	hw	129	ILE	O-C-N	-7.01	114.61	121.83
1	ib	174	ALA	CA-C-N	7.01	130.70	120.82
1	ib	174	ALA	C-N-CA	7.01	130.70	120.82
1	ih	125	PRO	CA-C-N	7.01	129.64	120.60
1	ih	125	PRO	C-N-CA	7.01	129.64	120.60
1	ix	33	SER	N-CA-C	-7.01	101.82	108.13
1	ix	66	MET	N-CA-C	7.01	118.57	111.07
1	jj	116	GLY	CA-C-O	-7.01	113.43	121.00
1	jW	183	ASN	CA-CB-CG	-7.01	105.59	112.60
1	kD	63	GLN	OE1-CD-NE2	-7.01	115.59	122.60
1	kU	62	HIS	ND1-CG-CD2	7.01	113.11	106.10
1	lB	23	TRP	N-CA-C	7.01	119.52	111.11
1	2t	29	GLU	N-CA-C	7.01	121.06	112.23
1	2v	173	ARG	NE-CZ-NH2	-7.01	112.89	119.20
1	2D	142	VAL	N-CA-C	7.01	117.72	110.36
1	3E	42	ALA	CA-C-O	7.01	127.85	120.42
1	47	31	ALA	N-CA-C	7.01	125.73	110.80
1	4d	218	CYS	CA-C-N	7.01	130.66	120.71
1	4d	218	CYS	C-N-CA	7.01	130.66	120.71
1	5e	132	ARG	NE-CZ-NH1	7.01	128.51	121.50
1	5l	191	VAL	CA-C-N	7.01	129.55	120.44
1	5l	191	VAL	C-N-CA	7.01	129.55	120.44
1	5K	15	ILE	N-CA-CB	7.01	118.17	110.53
1	5P	229	ARG	NH1-CZ-NH2	-7.01	110.19	119.30
1	6H	145	TYR	CA-C-N	7.01	130.18	120.65
1	6H	145	TYR	C-N-CA	7.01	130.18	120.65
1	7q	110	THR	O-C-N	-7.01	114.06	123.10
1	7K	218	CYS	N-CA-C	7.01	121.20	111.74
1	ar	12	HIS	ND1-CE1-NE2	7.01	115.41	108.40
1	at	180	GLU	CA-C-N	7.01	129.64	120.60
1	at	180	GLU	C-N-CA	7.01	129.64	120.60
1	co	89	GLY	CA-C-N	7.01	128.60	119.84
1	co	89	GLY	C-N-CA	7.01	128.60	119.84
1	cr	103	ASP	N-CA-CB	-7.01	99.82	110.12
1	dT	226	HIS	CB-CG-CD2	-7.01	122.09	131.20
1	dU	24	VAL	CB-CA-C	-7.01	102.55	112.22
1	ei	17	PRO	CA-C-N	7.01	129.55	120.44
1	ei	17	PRO	C-N-CA	7.01	129.55	120.44
1	eR	228	ALA	N-CA-C	7.01	120.54	110.24
1	eT	164	TYR	N-CA-CB	7.01	120.14	109.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f0	84	HIS	O-C-N	-7.01	113.13	121.12
1	f8	80	TRP	N-CA-C	7.01	118.92	111.28
1	gp	89	GLY	CA-C-N	7.01	128.60	119.84
1	gp	89	GLY	C-N-CA	7.01	128.60	119.84
1	hl	108	THR	N-CA-CB	7.01	121.59	110.73
1	1J	82	ARG	CA-C-N	7.01	129.67	120.28
1	1J	82	ARG	C-N-CA	7.01	129.67	120.28
1	hz	223	GLY	CA-C-N	7.01	127.05	119.90
1	hz	223	GLY	C-N-CA	7.01	127.05	119.90
1	hB	33	SER	O-C-N	-7.01	114.62	121.56
1	ia	217	ALA	CA-C-N	7.01	132.58	122.35
1	ia	217	ALA	C-N-CA	7.01	132.58	122.35
1	ih	188	THR	O-C-N	-7.01	114.16	122.15
1	il	101	GLY	CA-C-N	7.01	130.37	120.28
1	il	101	GLY	C-N-CA	7.01	130.37	120.28
1	iy	103	ASP	CA-C-O	7.01	128.02	120.24
1	iz	230	VAL	CA-C-O	7.01	127.15	120.14
1	ja	102	SER	CA-C-O	7.01	128.03	119.97
1	jC	66	MET	O-C-N	-7.01	114.16	122.15
1	jT	82	ARG	N-CA-C	7.01	118.57	111.07
1	lL	179	GLN	CA-C-N	7.01	129.55	120.44
1	lL	179	GLN	C-N-CA	7.01	129.55	120.44
1	2a	74	ASN	N-CA-C	7.01	118.57	111.07
1	2W	133	TRP	CA-C-N	7.01	129.46	120.70
1	2W	133	TRP	C-N-CA	7.01	129.46	120.70
1	2X	161	PHE	CA-C-N	7.01	129.67	120.28
1	2X	161	PHE	C-N-CA	7.01	129.67	120.28
1	36	21	ASN	CA-C-N	7.01	129.98	120.38
1	36	21	ASN	C-N-CA	7.01	129.98	120.38
1	3P	210	THR	N-CA-C	7.01	119.03	110.41
1	4f	119	THR	CA-C-N	7.01	130.78	120.90
1	4f	119	THR	C-N-CA	7.01	130.78	120.90
1	4H	118	MET	N-CA-C	7.01	120.31	111.69
1	5H	35	GLU	CA-C-O	7.01	126.85	119.14
1	5Q	208	ALA	CA-C-O	7.01	126.76	119.05
1	6H	131	LYS	N-CA-C	7.01	118.92	111.28
1	6O	129	ILE	N-CA-CB	7.01	118.29	110.51
1	6V	126	VAL	CA-C-N	7.01	127.58	119.94
1	6V	126	VAL	C-N-CA	7.01	127.58	119.94
1	7N	27	VAL	N-CA-C	-7.01	103.47	110.62
1	7O	24	VAL	N-CA-C	7.01	117.72	110.36
1	8i	177	ALA	N-CA-C	7.01	119.35	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8w	102	SER	N-CA-C	7.01	118.92	111.28
1	8O	36	VAL	CA-C-N	7.01	125.94	120.33
1	8O	36	VAL	C-N-CA	7.01	125.94	120.33
1	8O	49	PRO	N-CA-C	7.01	125.13	113.78
1	8R	225	GLY	N-CA-C	7.01	121.51	112.68
1	8Y	154	ARG	CD-NE-CZ	7.01	134.21	124.40
1	96	45	GLU	O-C-N	-7.01	114.69	122.12
1	9d	25	LYS	O-C-N	-7.01	113.65	122.27
1	ah	210	THR	CA-CB-OG1	7.01	120.11	109.60
1	aG	156	GLY	CA-C-N	7.01	126.72	119.64
1	aG	156	GLY	C-N-CA	7.01	126.72	119.64
1	aZ	14	ALA	N-CA-C	7.01	120.54	110.24
1	bF	85	PRO	N-CA-CB	7.01	110.61	103.25
1	c1	25	LYS	N-CA-C	7.01	118.92	111.28
1	ce	39	MET	N-CA-C	7.01	118.71	111.14
1	cE	204	ALA	CA-C-N	7.01	130.24	120.29
1	cE	204	ALA	C-N-CA	7.01	130.24	120.29
1	1h	185	MET	N-CA-C	7.01	118.92	111.28
1	d7	15	ILE	O-C-N	-7.01	115.20	122.63
1	dB	26	VAL	CA-C-O	-7.01	113.76	121.05
1	e4	84	HIS	CA-CB-CG	-7.01	106.79	113.80
1	eC	221	VAL	O-C-N	-7.01	115.47	122.76
1	eH	4	GLN	O-C-N	-7.01	115.07	123.13
1	eK	112	GLN	N-CA-C	7.01	118.92	111.28
1	1v	199	LYS	N-CA-C	7.01	118.92	111.28
1	fe	83	LEU	CA-C-N	7.01	131.33	120.68
1	fe	83	LEU	C-N-CA	7.01	131.33	120.68
1	e	90	PRO	N-CA-C	7.01	122.22	111.15
1	j	75	GLU	N-CA-C	7.01	118.57	111.07
1	m	82	ARG	N-CA-CB	7.01	121.16	110.44
1	q	22	ALA	CA-C-N	7.01	129.67	120.28
1	q	22	ALA	C-N-CA	7.01	129.67	120.28
1	gi	197	ASP	CA-C-N	7.00	129.67	120.28
1	gi	197	ASP	C-N-CA	7.00	129.67	120.28
1	gu	178	SER	O-C-N	-7.00	114.19	122.81
1	gv	195	ASN	CA-CB-CG	7.00	119.61	112.60
1	hz	112	GLN	N-CA-C	7.00	119.77	111.71
1	is	134	ILE	N-CA-C	7.00	117.14	110.42
1	jo	6	LEU	CA-C-O	7.00	128.30	119.12
1	kM	97	ARG	N-CA-C	-7.00	100.62	110.50
1	lr	117	TRP	CA-C-N	7.00	130.96	120.31
1	lr	117	TRP	C-N-CA	7.00	130.96	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	75	GLU	N-CA-C	7.00	118.56	111.07
1	2R	182	LYS	CA-C-O	-7.00	113.00	120.42
1	3R	5	ASN	O-C-N	-7.00	115.04	123.10
1	43	28	GLU	N-CA-C	7.00	119.95	111.82
1	4E	140	LYS	O-C-N	-7.00	114.86	122.07
1	5n	84	HIS	CB-CG-CD2	-7.00	122.09	131.20
1	5w	69	LEU	CA-C-N	7.00	129.55	120.44
1	5w	69	LEU	C-N-CA	7.00	129.55	120.44
1	5U	159	GLU	CA-C-N	7.00	127.05	119.90
1	5U	159	GLU	C-N-CA	7.00	127.05	119.90
1	6n	47	ALA	O-C-N	-7.00	114.40	123.02
1	9d	154	ARG	N-CA-C	7.00	120.54	110.10
1	9n	141	ILE	CA-C-N	7.00	130.06	120.46
1	9n	141	ILE	C-N-CA	7.00	130.06	120.46
1	a5	212	GLU	N-CA-C	7.00	118.92	111.28
1	br	155	GLN	N-CA-C	7.00	120.65	110.42
1	bC	131	LYS	N-CA-C	7.00	118.56	111.07
1	bI	204	ALA	N-CA-C	7.00	118.92	111.28
1	cF	55	MET	N-CA-C	7.00	118.92	111.28
1	d5	179	GLN	N-CA-C	7.00	119.77	111.71
1	dm	52	LEU	N-CA-C	7.00	119.52	111.11
1	1u	19	THR	CA-C-N	7.00	129.55	120.44
1	1u	19	THR	C-N-CA	7.00	129.55	120.44
1	fa	74	ASN	O-C-N	-7.00	114.86	122.07
1	1y	3	VAL	CA-C-O	-7.00	112.79	120.71
1	fM	214	MET	N-CA-C	7.00	119.52	111.11
1	g2	117	TRP	N-CA-C	7.00	118.56	111.07
1	a	172	LEU	N-CA-C	7.00	118.92	111.28
1	p	177	ALA	N-CA-C	7.00	120.39	110.23
1	v	15	ILE	CA-C-N	7.00	131.01	121.20
1	v	15	ILE	C-N-CA	7.00	131.01	121.20
1	6	84	HIS	CG-CD2-NE2	7.00	114.20	107.20
1	gg	67	GLN	OE1-CD-NE2	-7.00	115.60	122.60
1	gD	76	GLU	CA-C-N	7.00	129.66	120.28
1	gD	76	GLU	C-N-CA	7.00	129.66	120.28
1	gH	212	GLU	O-C-N	-7.00	114.69	122.12
1	gM	82	ARG	CA-C-N	7.00	130.24	120.29
1	gM	82	ARG	C-N-CA	7.00	130.24	120.29
1	gR	55	MET	CA-C-N	7.00	129.97	120.38
1	gR	55	MET	C-N-CA	7.00	129.97	120.38
1	gX	71	GLU	CA-C-O	7.00	127.97	120.55
1	hp	146	SER	O-C-N	-7.00	113.33	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	36	VAL	CA-C-N	7.00	125.93	120.33
1	ig	36	VAL	C-N-CA	7.00	125.93	120.33
1	ii	5	ASN	CA-CB-CG	-7.00	105.60	112.60
1	ik	102	SER	N-CA-C	7.00	121.28	112.87
1	1Q	161	PHE	CA-C-N	7.00	130.00	120.54
1	1Q	161	PHE	C-N-CA	7.00	130.00	120.54
1	iC	222	GLY	O-C-N	-7.00	113.60	122.70
1	iS	12	HIS	CA-CB-CG	7.00	120.80	113.80
1	j1	160	PRO	N-CA-CB	7.00	109.20	103.32
1	j4	52	LEU	N-CA-C	7.00	119.51	111.11
1	j4	180	GLU	CA-C-N	7.00	129.38	120.56
1	j4	180	GLU	C-N-CA	7.00	129.38	120.56
1	1V	27	VAL	O-C-N	-7.00	115.08	121.87
1	jW	73	ILE	CA-C-N	7.00	130.96	120.31
1	jW	73	ILE	C-N-CA	7.00	130.96	120.31
1	23	59	VAL	O-C-N	-7.00	116.00	122.79
1	23	216	THR	CA-C-N	7.00	131.94	120.94
1	23	216	THR	C-N-CA	7.00	131.94	120.94
1	27	166	ASP	CA-CB-CG	7.00	119.60	112.60
1	lF	219	GLN	CA-C-O	7.00	127.74	119.48
1	lH	214	MET	N-CA-C	7.00	118.91	111.28
1	2a	203	LYS	N-CA-C	7.00	118.91	111.28
1	2M	54	THR	CA-C-N	7.00	129.99	120.54
1	2M	54	THR	C-N-CA	7.00	129.99	120.54
1	3a	15	ILE	N-CA-C	-7.00	102.42	110.05
1	3y	203	LYS	N-CA-C	7.00	118.56	111.07
1	3G	80	TRP	CE2-CD2-CE3	7.00	125.80	118.80
1	4b	193	ASN	OD1-CG-ND2	-7.00	115.60	122.60
1	4f	195	ASN	CA-CB-CG	7.00	119.60	112.60
1	5n	15	ILE	CA-C-N	7.00	130.17	120.65
1	5n	15	ILE	C-N-CA	7.00	130.17	120.65
1	6c	73	ILE	N-CA-C	7.00	117.14	110.42
1	6J	16	SER	CA-C-N	7.00	126.68	119.82
1	6J	16	SER	C-N-CA	7.00	126.68	119.82
1	6K	132	ARG	NE-CZ-NH2	-7.00	112.90	119.20
1	7W	32	PHE	CA-CB-CG	-7.00	106.80	113.80
1	8H	44	SER	CA-C-O	7.00	128.43	119.95
1	9f	206	GLY	CA-C-N	7.00	127.42	119.93
1	9f	206	GLY	C-N-CA	7.00	127.42	119.93
1	9w	198	CYS	CA-C-N	7.00	130.61	120.38
1	9w	198	CYS	C-N-CA	7.00	130.61	120.38
1	9x	226	HIS	CA-CB-CG	7.00	120.80	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9D	62	HIS	ND1-CG-CD2	7.00	113.10	106.10
1	a8	3	VAL	N-CA-C	7.00	118.09	108.84
1	aC	81	ASP	CA-C-N	7.00	129.67	120.28
1	aC	81	ASP	C-N-CA	7.00	129.67	120.28
1	bh	41	SER	CA-C-N	7.00	129.66	120.28
1	bh	41	SER	C-N-CA	7.00	129.66	120.28
1	bV	154	ARG	NE-CZ-NH1	7.00	128.50	121.50
1	ch	199	LYS	N-CA-C	7.00	119.81	111.33
1	ct	10	MET	CA-C-N	7.00	130.97	120.75
1	ct	10	MET	C-N-CA	7.00	130.97	120.75
1	cF	21	ASN	CA-C-N	7.00	130.24	120.29
1	cF	21	ASN	C-N-CA	7.00	130.24	120.29
1	dc	198	CYS	CA-C-N	7.00	129.97	120.38
1	dc	198	CYS	C-N-CA	7.00	129.97	120.38
1	dw	102	SER	CA-C-N	7.00	130.24	120.29
1	dw	102	SER	C-N-CA	7.00	130.24	120.29
1	dS	51	ASP	CA-CB-CG	7.00	119.60	112.60
1	e9	143	ARG	N-CA-C	7.00	119.52	111.11
1	ei	12	HIS	CB-CG-CD2	-7.00	122.09	131.20
1	em	226	HIS	CE1-NE2-CD2	-7.00	102.00	109.00
1	eJ	54	THR	CA-C-N	7.00	129.54	120.44
1	eJ	54	THR	C-N-CA	7.00	129.54	120.44
1	eO	122	PRO	CA-C-N	7.00	126.99	119.78
1	eO	122	PRO	C-N-CA	7.00	126.99	119.78
1	eP	178	SER	CA-C-N	7.00	129.66	120.28
1	eP	178	SER	C-N-CA	7.00	129.66	120.28
1	1t	87	HIS	ND1-CE1-NE2	7.00	115.40	108.40
1	f1	134	ILE	CA-C-O	7.00	128.59	121.17
1	fO	130	TYR	N-CA-C	7.00	118.92	111.28
1	fT	37	ILE	N-CA-CB	7.00	115.91	110.45
1	fZ	188	THR	CA-C-N	7.00	129.66	120.28
1	fZ	188	THR	C-N-CA	7.00	129.66	120.28
1	l	132	ARG	NE-CZ-NH1	7.00	128.50	121.50
1	m	111	LEU	N-CA-C	7.00	119.77	111.71
1	g9	200	THR	CA-C-O	7.00	127.97	120.55
1	1C	150	ILE	N-CA-C	-7.00	105.80	113.43
1	gY	33	SER	N-CA-C	7.00	118.53	109.64
1	hv	162	ARG	CA-C-N	7.00	129.54	120.44
1	hv	162	ARG	C-N-CA	7.00	129.54	120.44
1	hS	153	ILE	O-C-N	-7.00	115.21	122.63
1	i0	4	GLN	CA-C-N	7.00	133.41	120.95
1	i0	4	GLN	C-N-CA	7.00	133.41	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i9	91	ILE	CA-CB-CG1	7.00	122.30	110.40
1	ik	161	PHE	CA-C-O	7.00	128.02	119.97
1	io	144	MET	CA-C-O	7.00	127.97	120.55
1	1Q	120	HIS	ND1-CE1-NE2	7.00	115.40	108.40
1	jp	171	THR	OG1-CB-CG2	-7.00	95.30	109.30
1	jR	12	HIS	CB-CG-CD2	-7.00	122.10	131.20
1	ka	62	HIS	CA-CB-CG	7.00	120.80	113.80
1	kI	50	GLN	N-CA-C	7.00	118.91	111.28
1	l3	81	ASP	CA-CB-CG	7.00	119.60	112.60
1	l4	12	HIS	N-CA-C	-7.00	97.70	108.76
1	lD	85	PRO	CA-C-N	7.00	129.94	120.63
1	lD	85	PRO	C-N-CA	7.00	129.94	120.63
1	lO	112	GLN	N-CA-C	7.00	119.80	111.33
1	lO	185	MET	O-C-N	-7.00	114.81	122.09
1	2l	196	PRO	CA-C-N	7.00	134.91	121.54
1	2l	196	PRO	C-N-CA	7.00	134.91	121.54
1	3b	128	GLU	N-CA-C	7.00	118.91	111.28
1	3g	205	LEU	N-CA-C	7.00	118.91	111.28
1	3j	114	GLN	CA-C-N	7.00	130.05	120.46
1	3j	114	GLN	C-N-CA	7.00	130.05	120.46
1	3I	213	GLU	CA-C-N	7.00	129.66	120.28
1	3I	213	GLU	C-N-CA	7.00	129.66	120.28
1	3X	172	LEU	CA-C-N	7.00	129.66	120.28
1	3X	172	LEU	C-N-CA	7.00	129.66	120.28
1	4E	120	HIS	CE1-NE2-CD2	-7.00	102.00	109.00
1	5A	180	GLU	N-CA-C	7.00	118.91	111.28
1	6e	54	THR	CA-C-N	7.00	129.66	120.28
1	6e	54	THR	C-N-CA	7.00	129.66	120.28
1	6U	62	HIS	ND1-CE1-NE2	7.00	115.40	108.40
1	6X	24	VAL	CA-C-N	7.00	129.99	120.54
1	6X	24	VAL	C-N-CA	7.00	129.99	120.54
1	72	217	ALA	N-CA-C	7.00	119.34	110.24
1	7i	171	THR	O-C-N	-7.00	114.86	122.07
1	7l	32	PHE	CA-CB-CG	-7.00	106.80	113.80
1	87	221	VAL	N-CA-C	7.00	117.71	110.36
1	8d	84	HIS	CA-C-N	7.00	128.59	119.84
1	8d	84	HIS	C-N-CA	7.00	128.59	119.84
1	8H	96	MET	N-CA-C	7.00	119.60	110.43
1	8J	12	HIS	O-C-N	-7.00	115.08	123.13
1	8W	96	MET	O-C-N	-7.00	115.42	123.33
1	8X	7	GLN	CA-C-N	7.00	128.95	120.13
1	8X	7	GLN	C-N-CA	7.00	128.95	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9p	147	PRO	CA-C-N	7.00	131.32	120.75
1	9p	147	PRO	C-N-CA	7.00	131.32	120.75
1	9w	176	GLN	OE1-CD-NE2	-7.00	115.60	122.60
1	9D	151	LEU	N-CA-C	7.00	120.92	112.38
1	aj	135	ILE	CA-C-N	7.00	129.66	120.28
1	aj	135	ILE	C-N-CA	7.00	129.66	120.28
1	an	14	ALA	N-CA-C	7.00	120.46	109.96
1	bm	91	ILE	N-CA-CB	7.00	118.35	110.72
1	bx	210	THR	CA-CB-OG1	7.00	120.10	109.60
1	bH	51	ASP	CA-C-N	7.00	129.99	120.54
1	bH	51	ASP	C-N-CA	7.00	129.99	120.54
1	cl	199	LYS	O-C-N	-7.00	114.70	122.12
1	cu	229	ARG	NE-CZ-NH2	-7.00	112.90	119.20
1	cv	207	PRO	CA-C-N	7.00	132.57	122.35
1	cv	207	PRO	C-N-CA	7.00	132.57	122.35
1	dr	170	LYS	O-C-N	7.00	129.28	122.07
1	dM	72	THR	CA-C-N	7.00	129.63	120.60
1	dM	72	THR	C-N-CA	7.00	129.63	120.60
1	dT	26	VAL	CA-C-N	7.00	130.05	120.46
1	dT	26	VAL	C-N-CA	7.00	130.05	120.46
1	e6	41	SER	CA-C-N	7.00	129.97	120.38
1	e6	41	SER	C-N-CA	7.00	129.97	120.38
1	er	193	ASN	N-CA-CB	7.00	120.85	110.49
1	eH	91	ILE	CA-C-N	7.00	130.43	120.49
1	eH	91	ILE	C-N-CA	7.00	130.43	120.49
1	p	97	ARG	CA-C-O	-7.00	113.93	121.56
1	y	213	GLU	CA-C-N	7.00	130.52	120.79
1	y	213	GLU	C-N-CA	7.00	130.52	120.79
1	gu	201	ILE	N-CA-C	7.00	117.76	110.62
1	gP	135	ILE	N-CA-C	7.00	117.14	110.42
1	gR	197	ASP	CA-C-O	7.00	127.90	119.43
1	gU	50	GLN	CA-C-O	-7.00	113.13	120.55
1	h0	26	VAL	CA-C-N	7.00	129.38	120.56
1	h0	26	VAL	C-N-CA	7.00	129.38	120.56
1	hA	136	LEU	CA-C-O	7.00	127.97	120.55
1	hH	75	GLU	O-C-N	-7.00	114.86	122.07
1	iH	131	LYS	N-CA-C	7.00	119.76	111.71
1	ja	109	SER	CA-C-N	7.00	133.54	122.62
1	ja	109	SER	C-N-CA	7.00	133.54	122.62
1	jb	130	TYR	N-CA-C	7.00	118.91	111.28
1	jl	135	ILE	N-CA-C	7.00	117.76	110.62
1	1V	229	ARG	NE-CZ-NH1	7.00	128.50	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jq	5	ASN	CA-C-N	7.00	131.06	121.05
1	jq	5	ASN	C-N-CA	7.00	131.06	121.05
1	28	81	ASP	CA-CB-CG	-7.00	105.60	112.60
1	lI	36	VAL	CA-C-N	7.00	125.93	120.33
1	lI	36	VAL	C-N-CA	7.00	125.93	120.33
1	3e	98	GLU	CA-C-O	-7.00	112.89	120.17
1	3R	26	VAL	N-CA-C	7.00	117.76	110.62
1	4G	191	VAL	CA-C-N	7.00	129.66	120.28
1	4G	191	VAL	C-N-CA	7.00	129.66	120.28
1	5L	172	LEU	CA-C-N	7.00	130.36	120.28
1	5L	172	LEU	C-N-CA	7.00	130.36	120.28
1	6Z	193	ASN	N-CA-CB	7.00	122.32	110.49
1	a7	137	GLY	N-CA-C	7.00	120.62	112.50
1	aB	78	ALA	CB-CA-C	-7.00	98.95	110.85
1	aS	65	ALA	N-CA-C	7.00	118.91	111.28
1	b5	193	ASN	OD1-CG-ND2	-7.00	115.60	122.60
1	bS	76	GLU	CA-C-N	7.00	129.96	120.44
1	bS	76	GLU	C-N-CA	7.00	129.96	120.44
1	cZ	146	SER	CA-C-O	-7.00	112.83	119.55
1	f	99	PRO	N-CA-C	7.00	122.06	111.14
1	ga	219	GLN	O-C-N	-7.00	114.53	122.09
1	1C	183	ASN	CA-C-N	-7.00	111.34	120.44
1	1C	183	ASN	C-N-CA	-7.00	111.34	120.44
1	1D	131	LYS	N-CA-C	7.00	118.56	111.07
1	gA	40	PHE	CA-C-N	7.00	129.54	120.44
1	gA	40	PHE	C-N-CA	7.00	129.54	120.44
1	gQ	119	THR	CA-CB-OG1	7.00	120.10	109.60
1	gU	53	ASN	CA-C-N	7.00	130.52	120.79
1	gU	53	ASN	C-N-CA	7.00	130.52	120.79
1	h7	152	ASP	O-C-N	-7.00	113.36	122.39
1	hy	163	ASP	CA-C-O	7.00	128.01	120.24
1	hG	161	PHE	O-C-N	7.00	129.28	122.07
1	il	134	ILE	O-C-N	-7.00	115.08	121.87
1	io	213	GLU	CA-C-N	7.00	129.66	120.28
1	io	213	GLU	C-N-CA	7.00	129.66	120.28
1	1U	218	CYS	O-C-N	-7.00	113.28	122.59
1	jh	18	ARG	NE-CZ-NH2	-7.00	112.90	119.20
1	jw	79	GLU	CA-C-N	7.00	129.99	120.54
1	jw	79	GLU	C-N-CA	7.00	129.99	120.54
1	jA	79	GLU	CA-C-N	7.00	129.96	120.44
1	jA	79	GLU	C-N-CA	7.00	129.96	120.44
1	jJ	193	ASN	CA-C-N	7.00	134.91	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jJ	193	ASN	C-N-CA	7.00	134.91	121.54
1	kd	79	GLU	CA-C-N	7.00	129.99	120.54
1	kd	79	GLU	C-N-CA	7.00	129.99	120.54
1	ku	158	LYS	CA-C-O	7.00	127.85	119.59
1	kB	84	HIS	CE1-NE2-CD2	-7.00	102.00	109.00
1	l2	3	VAL	CA-C-N	7.00	130.81	120.87
1	l2	3	VAL	C-N-CA	7.00	130.81	120.87
1	l5	205	LEU	CA-C-O	7.00	127.85	119.59
1	27	45	GLU	N-CA-C	7.00	118.91	111.28
1	2Z	110	THR	CA-CB-OG1	7.00	120.10	109.60
1	3m	223	GLY	O-C-N	7.00	128.77	121.77
1	3s	47	ALA	N-CA-C	7.00	120.38	110.23
1	4Y	73	ILE	CA-C-O	7.00	128.03	120.47
1	5h	104	ILE	N-CA-CB	-7.00	98.10	110.77
1	5v	50	GLN	N-CA-C	7.00	119.94	111.82
1	5Y	126	VAL	O-C-N	-7.00	115.03	121.89
1	61	150	ILE	CA-C-N	7.00	130.95	120.31
1	61	150	ILE	C-N-CA	7.00	130.95	120.31
1	6l	149	SER	O-C-N	-7.00	113.52	122.20
1	6M	188	THR	CA-C-N	7.00	130.23	120.29
1	6M	188	THR	C-N-CA	7.00	130.23	120.29
1	7T	212	GLU	CA-C-N	7.00	129.96	120.44
1	7T	212	GLU	C-N-CA	7.00	129.96	120.44
1	85	221	VAL	O-C-N	-7.00	114.71	122.69
1	8d	213	GLU	O-C-N	-7.00	114.86	122.07
1	8z	145	TYR	N-CA-C	7.00	122.11	113.50
1	8B	53	ASN	CA-CB-CG	-7.00	105.60	112.60
1	8K	195	ASN	CA-CB-CG	7.00	119.60	112.60
1	9h	39	MET	N-CA-C	7.00	118.91	111.28
1	aa	169	TYR	N-CA-C	7.00	120.30	111.69
1	aW	183	ASN	O-C-N	-7.00	114.86	122.07
1	aY	175	GLU	CA-C-O	7.00	128.86	120.81
1	bs	65	ALA	O-C-N	-7.00	114.53	122.09
1	bt	188	THR	CA-CB-OG1	7.00	120.10	109.60
1	bY	102	SER	O-C-N	-7.00	113.66	122.27
1	ce	16	SER	CA-C-N	7.00	127.30	119.32
1	ce	16	SER	C-N-CA	7.00	127.30	119.32
1	cy	36	VAL	O-C-N	-7.00	114.62	121.83
1	cC	19	THR	CA-C-N	7.00	129.54	120.44
1	cC	19	THR	C-N-CA	7.00	129.54	120.44
1	cD	202	LEU	N-CA-CB	7.00	120.52	110.16
1	cK	82	ARG	NE-CZ-NH2	-7.00	112.90	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cK	120	HIS	ND1-CE1-NE2	7.00	115.40	108.40
1	db	139	ASN	OD1-CG-ND2	7.00	129.60	122.60
1	dv	64	ALA	N-CA-CB	7.00	120.56	110.06
1	dG	181	VAL	CB-CA-C	-7.00	103.01	111.97
1	1q	172	LEU	N-CA-C	7.00	118.91	111.28
1	f7	187	GLU	N-CA-C	7.00	118.91	111.28
1	fA	97	ARG	N-CA-C	7.00	120.38	110.23
1	fE	14	ALA	CA-C-N	7.00	130.08	120.35
1	fE	14	ALA	C-N-CA	7.00	130.08	120.35
1	1z	128	GLU	O-C-N	7.00	129.28	122.07
1	fU	113	GLU	N-CA-C	7.00	118.91	111.28
1	n	156	GLY	O-C-N	-7.00	114.05	122.03
1	T	99	PRO	N-CA-C	7.00	122.67	111.26
1	gc	14	ALA	O-C-N	-7.00	115.05	122.96
1	1D	175	GLU	N-CA-C	7.00	119.33	110.24
1	gK	167	ARG	CA-C-N	7.00	129.54	120.44
1	gK	167	ARG	C-N-CA	7.00	129.54	120.44
1	hm	123	PRO	N-CA-CB	7.00	109.97	103.39
1	hQ	198	CYS	CA-C-N	7.00	130.36	120.28
1	hQ	198	CYS	C-N-CA	7.00	130.36	120.28
1	hY	190	LEU	N-CA-C	7.00	119.51	111.11
1	iR	159	GLU	CA-C-N	7.00	128.59	119.84
1	iR	159	GLU	C-N-CA	7.00	128.59	119.84
1	jp	74	ASN	N-CA-CB	7.00	120.40	110.12
1	jv	187	GLU	N-CA-C	7.00	119.50	111.11
1	jS	54	THR	CA-C-O	7.00	128.00	120.24
1	jT	181	VAL	N-CA-CB	7.00	118.73	110.55
1	kg	84	HIS	O-C-N	7.00	126.87	121.27
1	kv	167	ARG	NH1-CZ-NH2	-7.00	110.20	119.30
1	kD	78	ALA	N-CA-C	7.00	118.56	111.07
1	lC	132	ARG	N-CA-C	7.00	118.91	111.28
1	lN	96	MET	N-CA-C	7.00	118.99	111.36
1	2n	162	ARG	NE-CZ-NH1	7.00	128.50	121.50
1	2F	211	LEU	N-CA-CB	7.00	120.40	110.12
1	2V	67	GLN	N-CA-C	7.00	118.91	111.28
1	30	173	ARG	CA-C-N	7.00	130.23	120.29
1	30	173	ARG	C-N-CA	7.00	130.23	120.29
1	3s	3	VAL	CB-CA-C	-7.00	102.40	110.73
1	3B	48	THR	CA-CB-CG2	-7.00	98.61	110.50
1	5h	184	TRP	CB-CG-CD1	-7.00	116.41	126.90
1	5n	124	ILE	N-CA-C	-7.00	100.62	107.55
1	5q	89	GLY	O-C-N	-7.00	114.77	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	3	VAL	CA-C-N	7.00	134.90	121.54
1	5r	3	VAL	C-N-CA	7.00	134.90	121.54
1	5I	65	ALA	N-CA-C	7.00	118.99	111.36
1	5L	79	GLU	CA-C-O	7.00	128.17	120.82
1	67	202	LEU	N-CA-CB	7.00	120.40	110.12
1	6u	198	CYS	CA-C-N	7.00	129.53	120.44
1	6u	198	CYS	C-N-CA	7.00	129.53	120.44
1	6V	214	MET	CA-C-N	7.00	132.40	120.72
1	6V	214	MET	C-N-CA	7.00	132.40	120.72
1	7i	155	GLN	N-CA-C	-7.00	98.78	109.41
1	7n	176	GLN	CA-C-O	7.00	128.58	120.32
1	7G	171	THR	O-C-N	-7.00	114.70	122.12
1	7K	105	ALA	CA-C-O	7.00	127.75	119.28
1	7Q	24	VAL	CA-C-O	7.00	128.23	120.95
1	7S	84	HIS	CA-CB-CG	-7.00	106.80	113.80
1	7V	98	GLU	CA-C-O	-7.00	112.56	119.49
1	7X	101	GLY	CA-C-N	7.00	130.22	120.29
1	7X	101	GLY	C-N-CA	7.00	130.22	120.29
1	8d	146	SER	CA-C-O	-7.00	112.80	119.80
1	8k	150	ILE	N-CA-C	7.00	117.76	110.62
1	8H	161	PHE	CA-C-N	7.00	130.22	120.29
1	8H	161	PHE	C-N-CA	7.00	130.22	120.29
1	94	50	GLN	OE1-CD-NE2	7.00	129.60	122.60
1	9u	21	ASN	CB-CA-C	7.00	122.40	110.79
1	9Y	53	ASN	CA-C-N	7.00	129.97	120.38
1	9Y	53	ASN	C-N-CA	7.00	129.97	120.38
1	as	230	VAL	CB-CA-C	7.00	121.44	110.81
1	aY	128	GLU	N-CA-CB	-7.00	99.83	110.33
1	b3	149	SER	CA-C-N	7.00	131.74	120.55
1	b3	149	SER	C-N-CA	7.00	131.74	120.55
1	16	143	ARG	N-CA-C	7.00	119.51	111.11
1	bf	7	GLN	OE1-CD-NE2	-7.00	115.60	122.60
1	bg	185	MET	O-C-N	-7.00	114.86	122.07
1	bO	82	ARG	NE-CZ-NH1	7.00	128.50	121.50
1	bW	85	PRO	N-CA-C	7.00	122.23	111.11
1	cF	122	PRO	CA-C-N	7.00	126.92	119.85
1	cF	122	PRO	C-N-CA	7.00	126.92	119.85
1	cX	9	GLN	N-CA-CB	7.00	120.27	109.85
1	de	183	ASN	CA-C-N	7.00	129.95	120.44
1	de	183	ASN	C-N-CA	7.00	129.95	120.44
1	dC	120	HIS	N-CA-C	7.00	119.34	110.24
1	dW	65	ALA	O-C-N	-7.00	114.81	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	30	LYS	N-CA-CB	7.00	121.55	110.57
1	ei	217	ALA	N-CA-C	7.00	119.02	110.41
1	eE	148	THR	N-CA-C	7.00	120.14	110.35
1	eJ	154	ARG	CA-C-N	-7.00	111.50	121.50
1	eJ	154	ARG	C-N-CA	-7.00	111.50	121.50
1	1u	228	ALA	O-C-N	-7.00	114.35	122.89
1	fF	126	VAL	O-C-N	-7.00	114.80	121.87
1	fR	182	LYS	N-CA-C	7.00	119.50	111.11
1	4	18	ARG	NE-CZ-NH1	7.00	128.50	121.50
1	gf	98	GLU	N-CA-C	7.00	119.78	109.50
1	gu	162	ARG	NE-CZ-NH2	-7.00	112.90	119.20
1	gH	210	THR	O-C-N	-7.00	114.82	122.79
1	i3	51	ASP	CA-CB-CG	7.00	119.59	112.60
1	je	199	LYS	CA-C-O	7.00	127.97	120.55
1	jq	27	VAL	CA-C-N	7.00	129.53	120.44
1	jq	27	VAL	C-N-CA	7.00	129.53	120.44
1	js	138	LEU	O-C-N	-7.00	114.04	122.22
1	k5	156	GLY	CA-C-N	7.00	126.61	119.19
1	k5	156	GLY	C-N-CA	7.00	126.61	119.19
1	li	49	PRO	N-CA-CB	7.00	110.59	103.25
1	4l	188	THR	CA-C-N	7.00	129.96	120.38
1	4l	188	THR	C-N-CA	7.00	129.96	120.38
1	4r	95	GLN	CB-CG-CD	7.00	124.49	112.60
1	4T	188	THR	N-CA-C	7.00	119.50	111.11
1	6j	210	THR	N-CA-CB	7.00	120.39	109.83
1	72	131	LYS	N-CA-C	7.00	119.93	111.82
1	8n	100	ARG	NH1-CZ-NH2	-7.00	110.21	119.30
1	97	166	ASP	N-CA-CB	-7.00	99.87	110.01
1	9d	213	GLU	N-CA-C	7.00	118.90	111.28
1	9p	227	LYS	O-C-N	-7.00	115.06	122.96
1	9N	21	ASN	CA-CB-CG	7.00	119.59	112.60
1	9U	48	THR	N-CA-CB	7.00	119.48	110.04
1	12	182	LYS	CA-C-N	7.00	129.53	120.44
1	12	182	LYS	C-N-CA	7.00	129.53	120.44
1	b5	120	HIS	CG-CD2-NE2	7.00	114.19	107.20
1	bf	183	ASN	CA-CB-CG	-7.00	105.61	112.60
1	bB	209	ALA	N-CA-C	7.00	120.63	110.42
1	c2	20	LEU	CA-C-N	7.00	129.98	120.54
1	c2	20	LEU	C-N-CA	7.00	129.98	120.54
1	dD	87	HIS	CA-CB-CG	-7.00	106.81	113.80
1	dW	158	LYS	O-C-N	-7.00	114.64	122.34
1	ei	159	GLU	O-C-N	-7.00	115.36	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	et	160	PRO	CA-C-O	-7.00	113.45	121.36
1	eR	183	ASN	N-CA-C	7.00	118.56	111.07
1	fx	92	GLU	N-CA-C	7.00	117.64	109.60
1	fI	216	THR	N-CA-C	-7.00	103.93	113.30
1	e	182	LYS	N-CA-C	7.00	118.91	111.28
1	h	59	VAL	N-CA-C	7.00	118.07	108.84
1	i	21	ASN	CA-CB-CG	7.00	119.59	112.60
1	gw	97	ARG	N-CA-C	6.99	119.86	110.35
1	hl	134	ILE	N-CA-C	6.99	117.75	110.62
1	hB	118	MET	CA-C-O	6.99	127.83	120.42
1	hD	221	VAL	O-C-N	-6.99	115.36	122.14
1	ie	111	LEU	CA-C-N	6.99	130.51	120.79
1	ie	111	LEU	C-N-CA	6.99	130.51	120.79
1	ij	48	THR	CA-CB-OG1	6.99	120.09	109.60
1	iw	15	ILE	N-CA-C	6.99	118.60	109.58
1	iJ	148	THR	O-C-N	-6.99	115.09	123.13
1	iY	220	GLY	CA-C-O	6.99	126.90	119.07
1	j0	96	MET	N-CA-C	6.99	119.99	110.55
1	j1	162	ARG	N-CA-C	6.99	118.90	111.28
1	jq	6	LEU	O-C-N	-6.99	114.67	123.06
1	jW	168	PHE	O-C-N	-6.99	114.18	122.15
1	k2	106	GLY	CA-C-O	6.99	127.00	119.03
1	kF	82	ARG	NE-CZ-NH2	6.99	125.49	119.20
1	l5	37	ILE	O-C-N	6.99	124.89	120.42
1	l9	14	ALA	CA-C-N	6.99	129.93	120.63
1	l9	14	ALA	C-N-CA	6.99	129.93	120.63
1	ly	128	GLU	N-CA-C	6.99	118.98	111.36
1	lz	120	HIS	O-C-N	-6.99	114.43	122.68
1	lC	43	LEU	CA-C-N	6.99	130.94	120.31
1	lC	43	LEU	C-N-CA	6.99	130.94	120.31
1	2c	31	ALA	N-CA-C	6.99	125.70	110.80
1	2h	118	MET	CA-C-O	6.99	127.89	119.43
1	3R	54	THR	CA-C-O	6.99	127.96	120.55
1	4e	212	GLU	CA-C-N	6.99	129.53	120.44
1	4e	212	GLU	C-N-CA	6.99	129.53	120.44
1	4g	100	ARG	NH1-CZ-NH2	-6.99	110.21	119.30
1	4k	53	ASN	CA-CB-CG	-6.99	105.61	112.60
1	4v	195	ASN	CA-C-N	6.99	126.51	119.24
1	4v	195	ASN	C-N-CA	6.99	126.51	119.24
1	4B	212	GLU	CA-C-O	6.99	127.96	120.55
1	4Z	187	GLU	N-CA-C	6.99	119.50	111.11
1	57	32	PHE	O-C-N	-6.99	114.42	123.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	28	GLU	CA-C-O	-6.99	113.42	120.90
1	5O	142	VAL	N-CA-C	6.99	117.70	110.36
1	5X	37	ILE	CA-C-O	6.99	123.38	118.69
1	7k	123	PRO	CA-C-O	-6.99	113.33	121.86
1	7l	33	SER	CA-C-O	-6.99	113.08	120.28
1	7n	148	THR	CA-C-O	6.99	130.51	120.51
1	7v	214	MET	CA-C-O	-6.99	113.48	120.82
1	af	23	TRP	N-CA-C	6.99	119.55	111.02
1	am	26	VAL	N-CA-C	6.99	117.13	110.42
1	an	116	GLY	O-C-N	-6.99	115.21	122.13
1	aA	218	CYS	N-CA-C	6.99	123.28	113.56
1	aD	13	GLN	OE1-CD-NE2	-6.99	115.61	122.60
1	aS	39	MET	O-C-N	-6.99	114.82	122.09
1	be	200	THR	CA-C-N	6.99	129.37	120.56
1	be	200	THR	C-N-CA	6.99	129.37	120.56
1	bD	183	ASN	N-CA-C	6.99	118.90	111.28
1	bW	221	VAL	N-CA-C	6.99	118.59	110.62
1	c1	12	HIS	CA-CB-CG	6.99	120.79	113.80
1	dk	185	MET	N-CA-C	6.99	118.90	111.28
1	dr	102	SER	N-CA-C	6.99	118.90	111.28
1	1p	30	LYS	N-CA-C	6.99	120.67	109.83
1	1p	126	VAL	N-CA-C	6.99	118.59	110.62
1	eu	84	HIS	CA-C-O	-6.99	114.14	119.32
1	eH	204	ALA	N-CA-C	6.99	121.64	113.18
1	fu	31	ALA	CB-CA-C	-6.99	107.72	117.23
1	1A	16	SER	CA-C-O	-6.99	114.31	120.60
1	q	36	VAL	O-C-N	-6.99	115.09	121.87
1	T	185	MET	CA-C-N	6.99	129.65	120.28
1	T	185	MET	C-N-CA	6.99	129.65	120.28
1	1C	51	ASP	O-C-N	-6.99	114.71	122.12
1	hl	80	TRP	O-C-N	-6.99	114.82	122.09
1	in	14	ALA	CA-C-N	6.99	129.93	120.63
1	in	14	ALA	C-N-CA	6.99	129.93	120.63
1	jm	184	TRP	O-C-N	-6.99	114.71	122.12
1	jp	199	LYS	CA-C-O	-6.99	113.14	120.55
1	jC	81	ASP	CA-CB-CG	6.99	119.59	112.60
1	jW	86	VAL	N-CA-C	6.99	118.37	108.93
1	20	137	GLY	O-C-N	-6.99	115.41	122.19
1	26	114	GLN	CA-C-O	-6.99	113.48	120.82
1	3F	210	THR	CA-CB-OG1	6.99	120.09	109.60
1	3G	172	LEU	CA-C-N	6.99	129.65	120.28
1	3G	172	LEU	C-N-CA	6.99	129.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	142	VAL	N-CA-C	6.99	117.13	110.42
1	8c	80	TRP	N-CA-C	6.99	118.55	111.07
1	8t	84	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
1	9k	170	LYS	CA-C-N	6.99	130.22	120.29
1	9k	170	LYS	C-N-CA	6.99	130.22	120.29
1	bi	141	ILE	CB-CA-C	6.99	121.18	112.02
1	dm	28	GLU	N-CA-C	6.99	118.55	111.07
1	dI	186	THR	CA-C-N	6.99	129.65	120.28
1	dI	186	THR	C-N-CA	6.99	129.65	120.28
1	dY	163	ASP	CA-C-N	6.99	129.65	120.28
1	dY	163	ASP	C-N-CA	6.99	129.65	120.28
1	1o	210	THR	N-CA-C	6.99	119.55	110.53
1	en	40	PHE	N-CA-C	6.99	118.90	111.28
1	eO	229	ARG	NH1-CZ-NH2	-6.99	110.21	119.30
1	fq	78	ALA	N-CA-CB	6.99	121.12	110.28
1	r	101	GLY	CA-C-N	6.99	129.65	120.28
1	r	101	GLY	C-N-CA	6.99	129.65	120.28
1	s	193	ASN	CA-CB-CG	6.99	119.59	112.60
1	ga	94	GLY	CA-C-O	6.99	126.90	119.07
1	gR	156	GLY	O-C-N	-6.99	114.78	121.77
1	hm	184	TRP	N-CA-C	6.99	118.98	111.36
1	hr	141	ILE	N-CA-CB	6.99	119.52	110.57
1	1K	73	ILE	N-CA-C	6.99	117.70	110.36
1	i2	63	GLN	N-CA-C	6.99	119.93	111.82
1	ie	32	PHE	CA-CB-CG	-6.99	106.81	113.80
1	iJ	52	LEU	CA-C-N	6.99	129.65	120.28
1	iJ	52	LEU	C-N-CA	6.99	129.65	120.28
1	iS	145	TYR	CA-C-O	6.99	127.96	120.55
1	jh	223	GLY	N-CA-C	6.99	126.60	112.34
1	jr	69	LEU	CA-C-N	6.99	129.65	120.28
1	jr	69	LEU	C-N-CA	6.99	129.65	120.28
1	k7	27	VAL	N-CA-C	6.99	116.99	110.42
1	kG	4	GLN	CA-C-O	-6.99	113.75	121.23
1	lw	44	SER	CA-C-O	6.99	127.84	119.59
1	29	21	ASN	CA-CB-CG	6.99	119.59	112.60
1	lK	158	LYS	CA-C-O	6.99	127.73	119.48
1	2w	162	ARG	CA-C-N	6.99	129.53	120.44
1	2w	162	ARG	C-N-CA	6.99	129.53	120.44
1	2z	37	ILE	O-C-N	-6.99	113.13	121.10
1	2A	144	MET	N-CA-C	6.99	118.90	111.28
1	2C	3	VAL	CA-CB-CG1	6.99	122.28	110.40
1	37	142	VAL	N-CA-CB	-6.99	102.37	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3C	209	ALA	N-CA-C	6.99	119.86	110.35
1	3E	201	ILE	O-C-N	-6.99	115.09	121.87
1	46	92	GLU	O-C-N	-6.99	114.87	121.72
1	4k	42	ALA	CA-C-N	6.99	129.65	120.28
1	4k	42	ALA	C-N-CA	6.99	129.65	120.28
1	4t	62	HIS	CB-CG-CD2	-6.99	122.11	131.20
1	4u	181	VAL	CA-C-N	6.99	129.65	120.28
1	4u	181	VAL	C-N-CA	6.99	129.65	120.28
1	4G	62	HIS	CA-CB-CG	6.99	120.79	113.80
1	50	199	LYS	N-CA-C	6.99	118.90	111.28
1	57	29	GLU	N-CA-C	6.99	118.90	111.28
1	58	166	ASP	N-CA-C	6.99	118.55	111.07
1	5s	193	ASN	CA-CB-CG	-6.99	105.61	112.60
1	5H	208	ALA	CA-C-N	6.99	130.68	120.82
1	5H	208	ALA	C-N-CA	6.99	130.68	120.82
1	6f	82	ARG	NE-CZ-NH1	6.99	128.49	121.50
1	6w	29	GLU	N-CA-C	6.99	121.04	112.23
1	71	201	ILE	CA-C-N	6.99	129.96	120.38
1	71	201	ILE	C-N-CA	6.99	129.96	120.38
1	8m	25	LYS	CA-C-N	6.99	129.37	120.56
1	8m	25	LYS	C-N-CA	6.99	129.37	120.56
1	8O	193	ASN	OD1-CG-ND2	-6.99	115.61	122.60
1	94	24	VAL	N-CA-C	6.99	117.13	110.42
1	9E	55	MET	N-CA-C	6.99	122.90	111.37
1	b4	101	GLY	O-C-N	-6.99	114.83	122.24
1	bE	197	ASP	CA-CB-CG	6.99	119.59	112.60
1	cl	190	LEU	O-C-N	-6.99	114.82	122.09
1	cx	63	GLN	N-CA-C	6.99	119.79	111.33
1	1j	112	GLN	CA-C-N	6.99	129.53	120.44
1	1j	112	GLN	C-N-CA	6.99	129.53	120.44
1	dj	192	GLN	CG-CD-NE2	-6.99	105.92	116.40
1	1m	85	PRO	N-CA-CB	6.99	109.40	103.25
1	e0	1	PRO	CA-C-N	6.99	130.49	120.98
1	e0	1	PRO	C-N-CA	6.99	130.49	120.98
1	ee	199	LYS	N-CA-C	6.99	119.50	111.11
1	eh	120	HIS	N-CA-C	6.99	119.59	110.43
1	0	200	THR	O-C-N	-6.99	114.71	122.12
1	gl	86	VAL	N-CA-C	-6.99	98.25	108.87
1	hg	13	GLN	OE1-CD-NE2	-6.99	115.61	122.60
1	hs	23	TRP	CZ3-CH2-CZ2	-6.99	112.41	121.50
1	hs	143	ARG	CA-C-O	6.99	127.96	120.55
1	hy	111	LEU	N-CA-C	6.99	119.79	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	id	22	ALA	O-C-N	-6.99	114.18	122.15
1	iF	172	LEU	CA-C-O	6.99	127.97	119.38
1	1R	214	MET	CA-C-N	6.99	129.64	120.28
1	1R	214	MET	C-N-CA	6.99	129.64	120.28
1	iW	5	ASN	N-CA-C	6.99	120.52	110.24
1	jr	62	HIS	CA-CB-CG	-6.99	106.81	113.80
1	kl	30	LYS	O-C-N	-6.99	114.47	122.09
1	ks	212	GLU	N-CA-C	6.99	118.90	111.28
1	lq	227	LYS	O-C-N	-6.99	114.73	123.05
1	lG	39	MET	N-CA-C	6.99	118.55	111.07
1	lO	103	ASP	CA-CB-CG	-6.99	105.61	112.60
1	2w	210	THR	CA-C-N	6.99	129.53	120.44
1	2w	210	THR	C-N-CA	6.99	129.53	120.44
1	2L	182	LYS	CA-C-N	6.99	129.64	120.28
1	2L	182	LYS	C-N-CA	6.99	129.64	120.28
1	37	19	THR	N-CA-CB	6.99	120.14	110.01
1	3d	137	GLY	CA-C-N	6.99	129.65	120.28
1	3d	137	GLY	C-N-CA	6.99	129.65	120.28
1	3h	28	GLU	N-CA-C	6.99	118.90	111.28
1	3o	179	GLN	CA-C-O	6.99	127.96	120.55
1	3t	30	LYS	CA-C-N	6.99	129.64	120.28
1	3t	30	LYS	C-N-CA	6.99	129.64	120.28
1	43	89	GLY	CA-C-N	6.99	128.57	119.84
1	43	89	GLY	C-N-CA	6.99	128.57	119.84
1	4l	108	THR	CB-CA-C	-6.99	100.24	111.28
1	4p	82	ARG	CA-C-O	-6.99	113.01	120.42
1	5B	18	ARG	O-C-N	-6.99	114.87	122.07
1	5G	17	PRO	N-CA-C	-6.99	104.47	114.18
1	5L	95	GLN	OE1-CD-NE2	-6.99	115.61	122.60
1	5U	70	LYS	CA-C-O	-6.99	113.01	120.42
1	6m	191	VAL	N-CA-C	6.99	117.13	110.42
1	7o	128	GLU	N-CA-C	6.99	118.55	111.07
1	8u	202	LEU	N-CA-CB	6.99	120.20	110.07
1	8G	79	GLU	N-CA-C	6.99	119.79	111.33
1	90	11	VAL	CA-C-N	6.99	132.43	122.09
1	90	11	VAL	C-N-CA	6.99	132.43	122.09
1	9w	22	ALA	N-CA-C	6.99	119.50	111.11
1	9z	70	LYS	N-CA-C	6.99	119.75	111.71
1	9P	154	ARG	CG-CD-NE	-6.99	96.63	112.00
1	ac	153	ILE	O-C-N	-6.99	115.00	122.83
1	aw	203	LYS	N-CA-C	6.99	118.55	111.07
1	14	84	HIS	CE1-NE2-CD2	-6.99	102.01	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b5	10	MET	N-CA-C	6.99	120.51	110.10
1	16	75	GLU	CA-C-N	6.99	129.53	120.44
1	16	75	GLU	C-N-CA	6.99	129.53	120.44
1	bv	116	GLY	N-CA-C	6.99	120.61	112.50
1	bB	89	GLY	CA-C-N	6.99	128.57	119.84
1	bB	89	GLY	C-N-CA	6.99	128.57	119.84
1	ck	94	GLY	CA-C-O	6.99	125.87	118.95
1	dq	169	TYR	N-CA-C	6.99	121.03	112.23
1	e7	117	TRP	CA-C-N	6.99	130.34	120.28
1	e7	117	TRP	C-N-CA	6.99	130.34	120.28
1	eU	26	VAL	CA-CB-CG1	6.99	122.28	110.40
1	fE	115	ILE	CA-C-O	6.99	128.26	120.85
1	g4	167	ARG	CA-C-N	6.99	129.94	120.44
1	g4	167	ARG	C-N-CA	6.99	129.94	120.44
1	hp	79	GLU	N-CA-C	6.99	118.90	111.28
1	hZ	162	ARG	N-CA-C	6.99	118.98	111.36
1	km	122	PRO	CA-C-N	6.99	126.96	119.76
1	km	122	PRO	C-N-CA	6.99	126.96	119.76
1	lp	82	ARG	N-CA-C	6.99	119.74	111.71
1	lD	136	LEU	O-C-N	6.99	129.53	122.12
1	2o	84	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
1	3p	112	GLN	O-C-N	-6.99	114.71	122.12
1	3x	151	LEU	CA-C-O	6.99	127.96	120.55
1	3A	87	HIS	CE1-NE2-CD2	-6.99	102.01	109.00
1	49	79	GLU	CA-C-O	-6.99	113.08	120.63
1	7m	141	ILE	CB-CA-C	-6.99	102.58	112.22
1	7w	65	ALA	CA-C-O	-6.99	113.01	120.42
1	7z	165	VAL	N-CA-C	6.99	117.75	110.62
1	7K	29	GLU	N-CA-C	6.99	118.55	111.07
1	7Z	110	THR	CA-C-N	6.99	129.64	120.28
1	7Z	110	THR	C-N-CA	6.99	129.64	120.28
1	8x	149	SER	O-C-N	-6.99	115.06	122.96
1	99	117	TRP	CB-CG-CD1	-6.99	116.42	126.90
1	9y	33	SER	O-C-N	-6.99	113.70	121.53
1	a5	101	GLY	N-CA-C	6.99	122.93	113.99
1	a8	188	THR	N-CA-C	6.99	120.28	111.69
1	aq	22	ALA	CA-C-N	6.99	129.64	120.28
1	aq	22	ALA	C-N-CA	6.99	129.64	120.28
1	aR	12	HIS	CA-C-O	-6.99	113.33	121.16
1	c1	226	HIS	O-C-N	-6.99	114.45	122.97
1	c6	121	ASN	CB-CA-C	6.99	117.92	110.17
1	ce	138	LEU	N-CA-CB	6.99	120.14	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cl	162	ARG	NE-CZ-NH1	6.99	128.49	121.50
1	cU	28	GLU	N-CA-C	6.99	118.55	111.07
1	f2	81	ASP	N-CA-CB	-6.99	99.45	110.28
1	fi	36	VAL	CA-C-N	6.99	124.64	120.24
1	fi	36	VAL	C-N-CA	6.99	124.64	120.24
1	fD	227	LYS	O-C-N	-6.99	112.82	122.46
1	i	18	ARG	CA-C-N	6.99	130.21	120.29
1	i	18	ARG	C-N-CA	6.99	130.21	120.29
1	U	36	VAL	CA-C-N	6.99	127.14	120.43
1	U	36	VAL	C-N-CA	6.99	127.14	120.43
1	gt	159	GLU	CA-C-N	6.99	128.57	119.84
1	gt	159	GLU	C-N-CA	6.99	128.57	119.84
1	hp	221	VAL	CB-CA-C	-6.99	104.40	111.80
1	hw	201	ILE	CA-CB-CG1	6.99	122.27	110.40
1	iy	75	GLU	CA-C-O	6.99	128.37	120.90
1	iG	16	SER	CA-C-N	6.99	127.57	119.47
1	iG	16	SER	C-N-CA	6.99	127.57	119.47
1	iP	185	MET	CG-SD-CE	-6.99	85.53	100.90
1	jb	195	ASN	N-CA-C	6.99	119.72	110.08
1	jl	12	HIS	CE1-NE2-CD2	-6.99	102.02	109.00
1	1Z	92	GLU	CA-C-N	6.99	127.38	119.83
1	1Z	92	GLU	C-N-CA	6.99	127.38	119.83
1	kf	177	ALA	CA-C-N	6.99	131.30	120.75
1	kf	177	ALA	C-N-CA	6.99	131.30	120.75
1	24	227	LYS	CA-C-N	6.99	129.64	120.28
1	24	227	LYS	C-N-CA	6.99	129.64	120.28
1	kP	22	ALA	O-C-N	-6.99	114.87	122.07
1	lO	121	ASN	CA-C-O	-6.99	114.14	119.59
1	2F	160	PRO	N-CA-C	6.99	122.65	111.26
1	2H	212	GLU	N-CA-C	6.99	119.49	111.11
1	3i	140	LYS	CA-C-N	6.99	129.36	120.56
1	3i	140	LYS	C-N-CA	6.99	129.36	120.56
1	3y	149	SER	CA-C-O	6.99	128.73	120.70
1	3Z	229	ARG	NE-CZ-NH2	-6.99	112.91	119.20
1	4l	178	SER	O-C-N	-6.99	114.29	122.95
1	58	28	GLU	CA-C-O	6.99	128.34	121.00
1	5D	182	LYS	N-CA-CB	-6.99	99.46	110.22
1	6T	45	GLU	N-CA-C	6.99	119.94	109.25
1	6Y	78	ALA	CA-C-O	6.99	128.16	120.82
1	7a	15	ILE	N-CA-C	6.99	119.69	109.63
1	7n	66	MET	N-CA-C	6.99	118.89	111.28
1	7s	59	VAL	N-CA-C	6.99	117.74	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7J	151	LEU	CA-C-O	6.99	127.73	119.56
1	7V	128	GLU	N-CA-C	6.99	118.89	111.28
1	83	113	GLU	CA-C-O	6.99	127.95	120.55
1	8B	161	PHE	O-C-N	-6.99	114.87	122.07
1	9d	112	GLN	CA-C-N	6.99	129.52	120.44
1	9d	112	GLN	C-N-CA	6.99	129.52	120.44
1	9h	62	HIS	CB-CG-CD2	-6.99	122.12	131.20
1	9z	62	HIS	CA-CB-CG	6.99	120.78	113.80
1	9I	96	MET	N-CA-C	6.99	120.51	110.10
1	9W	55	MET	O-C-N	-6.99	114.72	122.12
1	10	190	LEU	CA-C-O	6.99	128.38	120.90
1	ai	5	ASN	O-C-N	-6.99	114.85	123.44
1	ao	37	ILE	CB-CA-C	6.99	123.15	114.00
1	ap	12	HIS	ND1-CE1-NE2	6.99	115.39	108.40
1	aA	174	ALA	CA-C-N	6.99	131.30	120.75
1	aA	174	ALA	C-N-CA	6.99	131.30	120.75
1	aB	15	ILE	N-CA-C	6.99	118.45	109.30
1	aU	124	ILE	N-CA-CB	6.99	119.82	111.23
1	15	139	ASN	CA-CB-CG	-6.99	105.61	112.60
1	b1	70	LYS	N-CA-C	6.99	118.89	111.28
1	b4	132	ARG	N-CA-C	6.99	119.78	111.33
1	c3	32	PHE	N-CA-C	-6.99	104.68	112.57
1	cg	162	ARG	NE-CZ-NH1	6.99	128.49	121.50
1	cv	81	ASP	N-CA-C	-6.99	104.76	113.28
1	cw	42	ALA	N-CA-C	6.99	118.89	111.28
1	cK	12	HIS	CE1-NE2-CD2	-6.99	102.02	109.00
1	cL	110	THR	CA-C-N	6.99	129.97	120.54
1	cL	110	THR	C-N-CA	6.99	129.97	120.54
1	cP	157	PRO	CA-C-O	-6.99	109.22	118.86
1	cW	30	LYS	N-CA-CB	6.99	120.92	110.65
1	dQ	9	GLN	CA-C-O	-6.99	113.08	120.55
1	e3	187	GLU	CB-CA-C	6.99	121.85	110.88
1	e9	195	ASN	O-C-N	-6.99	114.20	121.60
1	eh	82	ARG	CA-C-N	6.99	130.93	120.31
1	eh	82	ARG	C-N-CA	6.99	130.93	120.31
1	eh	107	THR	CA-C-O	6.99	127.30	119.41
1	ez	47	ALA	N-CA-C	6.99	120.13	110.35
1	eM	62	HIS	N-CA-C	6.99	120.71	111.28
1	eM	120	HIS	CA-CB-CG	-6.99	106.81	113.80
1	f3	183	ASN	OD1-CG-ND2	-6.99	115.61	122.60
1	fB	37	ILE	O-C-N	-6.99	115.95	120.42
1	fQ	100	ARG	O-C-N	-6.99	114.13	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g9	74	ASN	CA-CB-CG	-6.98	105.62	112.60
1	gd	65	ALA	CA-C-N	6.98	130.21	120.29
1	gd	65	ALA	C-N-CA	6.98	130.21	120.29
1	gi	82	ARG	NE-CZ-NH1	6.98	128.48	121.50
1	gQ	23	TRP	N-CA-C	6.98	118.54	111.07
1	hp	180	GLU	CA-C-O	-6.98	113.10	120.92
1	i0	183	ASN	N-CA-C	6.98	119.92	111.82
1	id	177	ALA	CA-C-N	6.98	132.67	120.87
1	id	177	ALA	C-N-CA	6.98	132.67	120.87
1	iH	83	LEU	CA-C-N	6.98	130.41	120.49
1	iH	83	LEU	C-N-CA	6.98	130.41	120.49
1	iT	186	THR	N-CA-C	6.98	118.89	111.28
1	ky	120	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	lE	154	ARG	NE-CZ-NH2	-6.98	112.92	119.20
1	2B	227	LYS	CA-C-N	6.98	134.88	121.54
1	2B	227	LYS	C-N-CA	6.98	134.88	121.54
1	3v	171	THR	CA-C-O	6.98	127.95	120.55
1	3E	80	TRP	CA-C-N	6.98	129.64	120.28
1	3E	80	TRP	C-N-CA	6.98	129.64	120.28
1	3M	162	ARG	NE-CZ-NH1	6.98	128.48	121.50
1	4X	34	PRO	CA-C-N	6.98	130.58	120.38
1	4X	34	PRO	C-N-CA	6.98	130.58	120.38
1	7B	128	GLU	CA-C-N	6.98	130.03	120.46
1	7B	128	GLU	C-N-CA	6.98	130.03	120.46
1	8G	33	SER	O-C-N	-6.98	114.80	121.57
1	bg	126	VAL	CA-C-N	6.98	127.55	119.94
1	bg	126	VAL	C-N-CA	6.98	127.55	119.94
1	bT	120	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	fv	225	GLY	N-CA-C	-6.98	103.68	115.62
1	fK	225	GLY	CA-C-O	-6.98	116.16	122.24
1	c	166	ASP	CA-CB-CG	6.98	119.58	112.60
1	gd	1	PRO	CA-N-CD	-6.98	102.22	112.00
1	gR	149	SER	CA-C-N	6.98	129.61	120.60
1	gR	149	SER	C-N-CA	6.98	129.61	120.60
1	h3	129	ILE	CA-C-N	6.98	129.52	120.44
1	h3	129	ILE	C-N-CA	6.98	129.52	120.44
1	h9	50	GLN	OE1-CD-NE2	-6.98	115.62	122.60
1	hz	50	GLN	CA-C-O	6.98	127.95	120.55
1	hQ	210	THR	N-CA-CB	6.98	120.61	110.06
1	i3	120	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	ic	212	GLU	N-CA-C	6.98	119.49	111.11
1	iy	62	HIS	N-CA-C	6.98	121.03	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jB	10	MET	N-CA-C	6.98	120.09	110.24
1	jO	27	VAL	N-CA-C	6.98	117.12	110.42
1	jQ	38	PRO	CA-C-N	6.98	129.63	120.28
1	jQ	38	PRO	C-N-CA	6.98	129.63	120.28
1	k4	109	SER	CA-C-N	6.98	130.62	120.71
1	k4	109	SER	C-N-CA	6.98	130.62	120.71
1	kg	137	GLY	CA-C-N	6.98	129.52	120.44
1	kg	137	GLY	C-N-CA	6.98	129.52	120.44
1	kg	156	GLY	CA-C-N	6.98	128.57	119.84
1	kg	156	GLY	C-N-CA	6.98	128.57	119.84
1	lc	48	THR	O-C-N	-6.98	114.20	121.60
1	lF	36	VAL	N-CA-CB	6.98	118.72	110.55
1	lR	44	SER	CA-C-N	6.98	129.95	120.38
1	lR	44	SER	C-N-CA	6.98	129.95	120.38
1	3E	173	ARG	N-CA-C	6.98	118.89	111.28
1	3M	47	ALA	CA-C-N	6.98	132.88	121.57
1	3M	47	ALA	C-N-CA	6.98	132.88	121.57
1	3O	25	LYS	N-CA-C	6.98	118.89	111.28
1	3Z	112	GLN	OE1-CD-NE2	-6.98	115.62	122.60
1	4x	23	TRP	N-CA-C	6.98	118.54	111.07
1	5k	101	GLY	O-C-N	-6.98	115.22	122.13
1	5m	112	GLN	OE1-CD-NE2	-6.98	115.62	122.60
1	5O	43	LEU	N-CA-C	6.98	119.92	111.82
1	6f	145	TYR	O-C-N	-6.98	112.83	122.46
1	6s	189	LEU	N-CA-C	6.98	119.74	111.71
1	6R	40	PHE	O-C-N	-6.98	114.19	122.15
1	6T	50	GLN	CA-C-N	6.98	129.52	120.44
1	6T	50	GLN	C-N-CA	6.98	129.52	120.44
1	70	162	ARG	NH1-CZ-NH2	-6.98	110.22	119.30
1	73	119	THR	CA-C-O	6.98	126.82	119.14
1	7C	5	ASN	N-CA-C	6.98	119.49	111.11
1	7I	30	LYS	CA-C-N	6.98	134.88	121.54
1	7I	30	LYS	C-N-CA	6.98	134.88	121.54
1	82	124	ILE	O-C-N	-6.98	116.01	121.46
1	86	6	LEU	CA-C-O	6.98	128.59	120.49
1	8e	107	THR	N-CA-C	6.98	121.03	112.23
1	8z	217	ALA	CA-C-O	6.98	129.50	121.47
1	8D	50	GLN	CA-C-O	6.98	128.15	120.82
1	8I	161	PHE	CA-CB-CG	-6.98	106.82	113.80
1	92	136	LEU	CA-C-O	6.98	127.99	120.10
1	94	161	PHE	CA-C-N	6.98	129.95	120.38
1	94	161	PHE	C-N-CA	6.98	129.95	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	121	ASN	CA-C-O	-6.98	113.50	119.36
1	aD	18	ARG	N-CA-C	6.98	119.74	111.71
1	aV	87	HIS	CA-CB-CG	6.98	120.78	113.80
1	bd	208	ALA	CA-C-N	6.98	131.09	120.82
1	bd	208	ALA	C-N-CA	6.98	131.09	120.82
1	bs	76	GLU	N-CA-C	6.98	118.89	111.28
1	cF	183	ASN	CA-CB-CG	-6.98	105.62	112.60
1	cU	67	GLN	N-CA-C	6.98	118.89	111.28
1	dS	27	VAL	O-C-N	-6.98	114.64	121.83
1	e7	114	GLN	CA-C-N	6.98	130.38	120.53
1	e7	114	GLN	C-N-CA	6.98	130.38	120.53
1	eZ	107	THR	N-CA-C	-6.98	104.39	113.12
1	1x	139	ASN	CA-CB-CG	-6.98	105.62	112.60
1	fy	189	LEU	O-C-N	6.98	129.35	122.09
1	fE	62	HIS	CB-CG-CD2	-6.98	122.12	131.20
1	fF	28	GLU	CA-C-O	6.98	128.02	120.20
1	fP	173	ARG	NE-CZ-NH1	6.98	128.48	121.50
1	P	165	VAL	N-CA-C	6.98	117.74	110.62
1	gI	210	THR	CA-C-N	6.98	129.63	120.28
1	gI	210	THR	C-N-CA	6.98	129.63	120.28
1	h6	113	GLU	CA-C-N	6.98	129.87	120.65
1	h6	113	GLU	C-N-CA	6.98	129.87	120.65
1	hv	136	LEU	O-C-N	-6.98	114.72	122.12
1	hv	159	GLU	N-CA-C	6.98	119.75	109.42
1	1L	186	THR	O-C-N	-6.98	114.19	122.15
1	iA	228	ALA	O-C-N	-6.98	114.08	123.15
1	iL	62	HIS	N-CA-C	6.98	121.02	111.39
1	iN	126	VAL	N-CA-C	6.98	118.58	110.62
1	j0	88	ALA	N-CA-C	-6.98	103.10	112.94
1	j0	113	GLU	N-CA-C	6.98	118.54	111.07
1	ka	149	SER	CA-C-O	-6.98	113.98	121.38
1	kz	190	LEU	N-CA-C	6.98	118.54	111.07
1	kO	209	ALA	N-CA-C	6.98	119.31	110.24
1	kR	213	GLU	N-CA-CB	6.98	120.38	110.12
1	l5	34	PRO	CA-C-N	6.98	129.94	120.38
1	l5	34	PRO	C-N-CA	6.98	129.94	120.38
1	ld	86	VAL	N-CA-C	6.98	118.03	109.30
1	lr	129	ILE	CA-C-O	6.98	128.25	120.85
1	2o	141	ILE	N-CA-C	6.98	117.74	110.62
1	2M	113	GLU	CA-C-N	6.98	130.49	120.79
1	2M	113	GLU	C-N-CA	6.98	130.49	120.79
1	2Q	32	PHE	CA-CB-CG	-6.98	106.82	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	16	SER	CA-C-O	-6.98	113.45	120.64
1	2Z	127	GLY	CA-C-N	6.98	129.51	120.44
1	2Z	127	GLY	C-N-CA	6.98	129.51	120.44
1	37	139	ASN	CA-CB-CG	6.98	119.58	112.60
1	3l	62	HIS	CA-CB-CG	6.98	120.78	113.80
1	3l	128	GLU	CA-C-N	6.98	129.36	120.56
1	3l	128	GLU	C-N-CA	6.98	129.36	120.56
1	3E	182	LYS	N-CA-C	6.98	118.97	111.36
1	4t	209	ALA	N-CA-C	6.98	120.81	110.48
1	4K	92	GLU	CA-C-N	6.98	128.57	119.84
1	4K	92	GLU	C-N-CA	6.98	128.57	119.84
1	4L	163	ASP	CA-C-N	6.98	132.55	120.68
1	4L	163	ASP	C-N-CA	6.98	132.55	120.68
1	4N	120	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
1	5c	26	VAL	CA-CB-CG2	-6.98	98.53	110.40
1	5n	169	TYR	N-CA-C	6.98	119.78	111.33
1	6b	200	THR	O-C-N	-6.98	113.68	122.27
1	7a	207	PRO	N-CA-C	6.98	126.85	112.47
1	7d	5	ASN	CA-CB-CG	6.98	119.58	112.60
1	7q	37	ILE	N-CA-CB	6.98	114.90	110.50
1	85	54	THR	CA-C-N	6.98	129.96	120.54
1	85	54	THR	C-N-CA	6.98	129.96	120.54
1	8x	85	PRO	N-CA-C	6.98	122.21	111.11
1	8y	89	GLY	O-C-N	-6.98	114.79	121.77
1	9e	125	PRO	CA-C-N	6.98	130.02	120.46
1	9e	125	PRO	C-N-CA	6.98	130.02	120.46
1	aA	87	HIS	CB-CG-CD2	-6.98	122.12	131.20
1	aG	151	LEU	CA-C-O	6.98	127.97	119.31
1	bz	89	GLY	CA-C-O	-6.98	111.54	121.52
1	bz	183	ASN	OD1-CG-ND2	-6.98	115.62	122.60
1	ca	122	PRO	CA-C-N	6.98	126.95	119.76
1	ca	122	PRO	C-N-CA	6.98	126.95	119.76
1	1d	87	HIS	N-CA-CB	6.98	121.51	110.55
1	ci	162	ARG	N-CA-C	-6.98	104.23	112.89
1	cV	146	SER	O-C-N	-6.98	115.24	121.31
1	1i	191	VAL	N-CA-C	6.98	117.74	110.62
1	1i	226	HIS	ND1-CE1-NE2	6.98	115.38	108.40
1	dm	149	SER	N-CA-C	6.98	120.50	110.24
1	dr	126	VAL	N-CA-C	6.98	117.74	110.62
1	dS	18	ARG	N-CA-CB	6.98	120.38	110.12
1	eq	164	TYR	N-CA-C	6.98	118.89	111.28
1	f6	229	ARG	CA-C-N	6.98	129.50	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	229	ARG	C-N-CA	6.98	129.50	120.56
1	fF	171	THR	O-C-N	-6.98	114.83	122.09
1	b	156	GLY	O-C-N	-6.98	114.79	121.77
1	I	197	ASP	CA-C-N	6.98	129.63	120.28
1	I	197	ASP	C-N-CA	6.98	129.63	120.28
1	4	77	ALA	N-CA-C	6.98	118.89	111.28
1	O	74	ASN	OD1-CG-ND2	-6.98	115.62	122.60
1	1H	176	GLN	CB-CA-C	-6.98	98.92	110.72
1	hA	142	VAL	CA-C-O	6.98	127.79	120.25
1	iN	43	LEU	CA-C-O	6.98	127.99	120.10
1	jf	163	ASP	CA-C-N	6.98	129.51	120.44
1	jf	163	ASP	C-N-CA	6.98	129.51	120.44
1	ji	143	ARG	CA-C-N	6.98	129.93	120.44
1	ji	143	ARG	C-N-CA	6.98	129.93	120.44
1	2a	140	LYS	CA-C-O	6.98	127.95	120.55
1	2j	80	TRP	CA-C-O	6.98	128.37	120.90
1	2V	115	ILE	O-C-N	-6.98	115.10	121.87
1	3b	21	ASN	CA-C-O	6.98	127.89	120.70
1	3E	115	ILE	CA-C-N	6.98	127.73	119.98
1	3E	115	ILE	C-N-CA	6.98	127.73	119.98
1	48	200	THR	N-CA-CB	6.98	120.43	109.82
1	4T	166	ASP	CA-CB-CG	6.98	119.58	112.60
1	63	200	THR	N-CA-C	6.98	118.89	111.28
1	9K	111	LEU	CA-C-N	6.98	129.51	120.44
1	9K	111	LEU	C-N-CA	6.98	129.51	120.44
1	Z	210	THR	CA-C-N	6.98	130.20	120.29
1	Z	210	THR	C-N-CA	6.98	130.20	120.29
1	cf	189	LEU	N-CA-C	6.98	119.78	111.33
1	cw	214	MET	N-CA-C	6.98	118.89	111.28
1	cW	98	GLU	N-CA-C	6.98	119.76	109.50
1	dc	144	MET	CA-C-O	6.98	127.99	120.10
1	ew	161	PHE	CA-C-N	6.98	129.63	120.28
1	ew	161	PHE	C-N-CA	6.98	129.63	120.28
1	f7	7	GLN	CA-C-N	6.98	132.18	122.06
1	f7	7	GLN	C-N-CA	6.98	132.18	122.06
1	l	12	HIS	CG-CD2-NE2	6.98	114.18	107.20
1	go	120	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	h3	83	LEU	N-CA-C	6.98	118.53	111.07
1	hj	184	TRP	N-CA-C	6.98	118.89	111.28
1	hD	223	GLY	O-C-N	6.98	128.75	121.77
1	iN	111	LEU	N-CA-C	6.98	122.81	111.37
1	j7	109	SER	N-CA-CB	6.98	120.42	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jK	113	GLU	CA-C-N	6.98	129.63	120.28
1	jK	113	GLU	C-N-CA	6.98	129.63	120.28
1	1Z	50	GLN	CA-C-O	-6.98	113.16	120.55
1	k4	68	MET	CA-C-N	6.98	129.63	120.28
1	k4	68	MET	C-N-CA	6.98	129.63	120.28
1	20	189	LEU	CA-C-N	6.98	129.63	120.28
1	20	189	LEU	C-N-CA	6.98	129.63	120.28
1	21	41	SER	CA-C-N	6.98	129.63	120.28
1	21	41	SER	C-N-CA	6.98	129.63	120.28
1	kK	51	ASP	CA-CB-CG	-6.98	105.62	112.60
1	kM	82	ARG	N-CA-C	-6.98	102.24	111.24
1	kT	187	GLU	N-CA-C	6.98	118.97	111.36
1	lH	215	MET	N-CA-C	6.98	118.89	111.28
1	2t	112	GLN	N-CA-C	6.98	119.77	111.33
1	3q	60	GLY	CA-C-N	6.98	130.06	121.83
1	3q	60	GLY	C-N-CA	6.98	130.06	121.83
1	45	218	CYS	CA-C-N	6.98	132.83	122.99
1	45	218	CYS	C-N-CA	6.98	132.83	122.99
1	4z	199	LYS	N-CA-C	6.98	118.89	111.28
1	4H	161	PHE	O-C-N	-6.98	114.88	122.07
1	4L	79	GLU	CA-C-N	6.98	129.94	120.38
1	4L	79	GLU	O-C-N	-6.98	114.72	122.12
1	4L	79	GLU	C-N-CA	6.98	129.94	120.38
1	4T	184	TRP	N-CA-C	6.98	118.89	111.28
1	4Y	73	ILE	CB-CA-C	-6.98	100.96	112.26
1	5e	172	LEU	N-CA-C	6.98	118.89	111.28
1	5j	226	HIS	N-CA-C	6.98	119.31	110.24
1	5Q	226	HIS	CG-CD2-NE2	6.98	114.18	107.20
1	63	70	LYS	CB-CA-C	6.98	121.97	110.81
1	68	230	VAL	O-C-N	-6.98	115.64	123.18
1	6i	112	GLN	CA-C-N	6.98	130.20	120.29
1	6i	112	GLN	C-N-CA	6.98	130.20	120.29
1	6q	143	ARG	NH1-CZ-NH2	-6.98	110.23	119.30
1	6Q	19	THR	N-CA-C	6.98	119.73	111.71
1	6X	5	ASN	CA-C-O	6.98	128.04	120.58
1	7f	51	ASP	CA-C-O	6.98	127.94	120.55
1	7L	135	ILE	N-CA-C	6.98	117.69	110.36
1	8T	167	ARG	NE-CZ-NH2	-6.98	112.92	119.20
1	90	120	HIS	CB-CG-CD2	-6.98	122.13	131.20
1	9K	126	VAL	N-CA-C	6.98	119.81	111.09
1	9N	200	THR	CA-C-N	6.98	129.35	120.56
1	9N	200	THR	C-N-CA	6.98	129.35	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a7	195	ASN	CA-C-N	6.98	126.50	119.24
1	a7	195	ASN	C-N-CA	6.98	126.50	119.24
1	a9	57	ASN	OD1-CG-ND2	-6.98	115.62	122.60
1	ae	190	LEU	CA-C-N	6.98	129.49	120.56
1	ae	190	LEU	C-N-CA	6.98	129.49	120.56
1	as	71	GLU	O-C-N	-6.98	114.72	122.12
1	ax	41	SER	CA-C-N	6.98	129.63	120.28
1	ax	41	SER	C-N-CA	6.98	129.63	120.28
1	aF	16	SER	CA-C-N	6.98	126.68	119.56
1	aF	16	SER	C-N-CA	6.98	126.68	119.56
1	br	63	GLN	N-CA-C	6.98	119.77	111.33
1	bG	171	THR	O-C-N	-6.98	113.69	122.27
1	bI	124	ILE	O-C-N	-6.98	116.02	121.46
1	bM	89	GLY	CA-C-N	6.98	128.56	119.84
1	bM	89	GLY	C-N-CA	6.98	128.56	119.84
1	bR	164	TYR	CA-C-N	6.98	130.33	120.42
1	bR	164	TYR	C-N-CA	6.98	130.33	120.42
1	cB	64	ALA	CA-C-N	6.98	129.93	120.44
1	cB	64	ALA	C-N-CA	6.98	129.93	120.44
1	d1	223	GLY	O-C-N	-6.98	116.14	122.42
1	d9	178	SER	N-CA-C	6.98	120.34	110.50
1	dF	41	SER	CA-C-N	6.98	129.63	120.28
1	dF	41	SER	C-N-CA	6.98	129.63	120.28
1	dZ	70	LYS	N-CA-C	6.98	118.89	111.28
1	ei	57	ASN	CA-CB-CG	-6.98	105.62	112.60
1	er	176	GLN	OE1-CD-NE2	-6.98	115.62	122.60
1	fv	195	ASN	O-C-N	-6.98	113.30	121.32
1	fy	221	VAL	N-CA-C	6.98	118.35	108.93
1	fO	29	GLU	N-CA-C	6.98	118.97	111.36
1	5	56	LEU	N-CA-C	6.98	119.77	111.33
1	gr	177	ALA	N-CA-CB	6.98	120.78	109.69
1	gV	219	GLN	N-CA-C	6.98	119.92	109.25
1	hC	2	ILE	CA-CB-CG2	6.98	122.36	110.50
1	hG	36	VAL	CA-C-N	6.98	124.64	120.24
1	hG	36	VAL	C-N-CA	6.98	124.64	120.24
1	hG	113	GLU	CA-C-N	6.98	129.51	120.44
1	hG	113	GLU	C-N-CA	6.98	129.51	120.44
1	1M	227	LYS	CA-C-N	6.98	130.74	120.90
1	1M	227	LYS	C-N-CA	6.98	130.74	120.90
1	iA	167	ARG	NE-CZ-NH2	-6.98	112.92	119.20
1	iE	182	LYS	O-C-N	-6.98	114.20	122.15
1	iU	116	GLY	CA-C-N	6.98	129.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iU	116	GLY	C-N-CA	6.98	129.63	120.28
1	j7	88	ALA	CA-C-O	6.98	128.97	121.44
1	je	183	ASN	CA-CB-CG	-6.98	105.62	112.60
1	k0	65	ALA	O-C-N	-6.98	114.89	122.07
1	kr	135	ILE	CA-C-O	6.98	128.24	120.85
1	kS	156	GLY	O-C-N	-6.98	114.79	121.77
1	27	115	ILE	CA-C-N	6.98	127.54	119.94
1	27	115	ILE	C-N-CA	6.98	127.54	119.94
1	lQ	109	SER	N-CA-CB	6.98	122.29	110.71
1	38	49	PRO	CB-CA-C	6.98	123.91	112.26
1	3a	82	ARG	CA-C-N	6.98	129.63	120.28
1	3a	82	ARG	C-N-CA	6.98	129.63	120.28
1	4J	154	ARG	N-CA-CB	6.98	122.01	110.85
1	5f	51	ASP	O-C-N	-6.98	114.56	122.09
1	5w	89	GLY	N-CA-C	6.98	126.57	112.34
1	81	179	GLN	N-CA-C	6.98	119.53	111.02
1	8g	221	VAL	CA-C-N	6.98	126.73	120.10
1	8g	221	VAL	C-N-CA	6.98	126.73	120.10
1	8n	48	THR	CA-C-N	6.98	128.56	119.84
1	8n	48	THR	C-N-CA	6.98	128.56	119.84
1	8x	86	VAL	N-CA-C	6.98	118.33	108.36
1	a9	160	PRO	N-CA-CB	-6.98	95.92	103.25
1	an	126	VAL	N-CA-C	6.98	118.57	110.62
1	ax	168	PHE	N-CA-C	6.98	118.53	111.07
1	aC	72	THR	N-CA-CB	6.98	120.38	110.12
1	aT	167	ARG	CA-C-O	6.98	128.14	120.82
1	bk	198	CYS	CA-C-N	6.98	129.63	120.28
1	bk	198	CYS	C-N-CA	6.98	129.63	120.28
1	bx	181	VAL	N-CA-C	-6.98	103.72	110.42
1	bC	18	ARG	NE-CZ-NH2	-6.98	112.92	119.20
1	bR	209	ALA	CA-C-N	6.98	131.89	120.94
1	bR	209	ALA	C-N-CA	6.98	131.89	120.94
1	1b	166	ASP	CA-C-N	6.98	130.20	120.29
1	1b	166	ASP	C-N-CA	6.98	130.20	120.29
1	cz	48	THR	CA-C-N	6.98	126.95	119.28
1	cz	48	THR	C-N-CA	6.98	126.95	119.28
1	cV	84	HIS	CG-CD2-NE2	6.98	114.18	107.20
1	da	119	THR	N-CA-CB	6.98	121.32	110.44
1	ds	129	ILE	N-CA-C	6.98	117.12	110.42
1	x	187	GLU	N-CA-C	6.98	118.53	111.07
1	B	217	ALA	N-CA-C	6.98	118.88	111.28
1	gm	55	MET	CA-C-N	6.97	129.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gm	55	MET	C-N-CA	6.97	129.51	120.44
1	gq	183	ASN	CA-CB-CG	-6.97	105.62	112.60
1	hc	156	GLY	CA-C-N	6.97	126.79	119.05
1	hc	156	GLY	C-N-CA	6.97	126.79	119.05
1	hf	53	ASN	CA-C-N	6.97	129.63	120.28
1	hf	53	ASN	C-N-CA	6.97	129.63	120.28
1	ir	197	ASP	CA-C-N	6.97	129.62	120.28
1	ir	197	ASP	C-N-CA	6.97	129.62	120.28
1	jo	199	LYS	CA-C-N	6.97	129.96	120.54
1	jo	199	LYS	C-N-CA	6.97	129.96	120.54
1	jN	25	LYS	CA-C-N	6.97	129.60	120.60
1	jN	25	LYS	C-N-CA	6.97	129.60	120.60
1	kA	163	ASP	CA-CB-CG	6.97	119.57	112.60
1	kF	37	ILE	N-CA-CB	6.97	115.89	110.45
1	kN	136	LEU	CA-C-N	6.97	127.87	119.99
1	kN	136	LEU	C-N-CA	6.97	127.87	119.99
1	l5	122	PRO	CA-C-N	6.97	127.36	119.83
1	l5	122	PRO	C-N-CA	6.97	127.36	119.83
1	lG	181	VAL	N-CA-CB	6.97	120.03	110.54
1	lM	150	ILE	CA-C-N	6.97	130.56	120.38
1	lM	150	ILE	C-N-CA	6.97	130.56	120.38
1	2C	110	THR	CA-C-N	6.97	129.96	120.54
1	2C	110	THR	C-N-CA	6.97	129.96	120.54
1	2N	100	ARG	O-C-N	-6.97	114.45	122.68
1	2V	76	GLU	CA-C-N	6.97	129.51	120.44
1	2V	76	GLU	C-N-CA	6.97	129.51	120.44
1	3z	226	HIS	CA-CB-CG	6.97	120.78	113.80
1	3K	88	ALA	CA-C-N	6.97	132.82	121.87
1	3K	88	ALA	C-N-CA	6.97	132.82	121.87
1	3Q	88	ALA	CA-C-O	6.97	127.94	120.55
1	3V	109	SER	CA-C-O	6.97	127.98	120.38
1	4y	146	SER	N-CA-CB	6.97	119.37	110.23
1	4T	180	GLU	CB-CG-CD	6.97	124.46	112.60
1	4Y	18	ARG	NE-CZ-NH2	6.97	125.48	119.20
1	5l	27	VAL	CA-C-O	6.97	128.52	121.27
1	7F	139	ASN	CA-CB-CG	6.97	119.57	112.60
1	7R	22	ALA	CA-C-N	6.97	129.51	120.44
1	7R	22	ALA	C-N-CA	6.97	129.51	120.44
1	7Z	45	GLU	N-CA-C	6.97	120.49	110.24
1	8w	101	GLY	CA-C-N	6.97	129.63	120.28
1	8w	101	GLY	C-N-CA	6.97	129.63	120.28
1	9i	109	SER	O-C-N	-6.97	114.16	123.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aT	15	ILE	O-C-N	-6.97	115.24	122.63
1	b3	70	LYS	N-CA-C	6.97	119.77	111.33
1	bv	13	GLN	CA-C-N	6.97	130.61	120.71
1	bv	13	GLN	C-N-CA	6.97	130.61	120.71
1	bH	164	TYR	CA-C-N	6.97	130.01	120.46
1	bH	164	TYR	C-N-CA	6.97	130.01	120.46
1	cl	207	PRO	CB-CA-C	6.97	121.97	111.44
1	1f	191	VAL	N-CA-C	-6.97	104.19	111.58
1	cD	63	GLN	CA-C-O	-6.97	113.16	120.55
1	db	192	GLN	CB-CA-C	-6.97	99.21	110.79
1	di	121	ASN	OD1-CG-ND2	-6.97	115.63	122.60
1	dv	190	LEU	CA-C-N	6.97	129.49	120.56
1	dv	190	LEU	C-N-CA	6.97	129.49	120.56
1	dJ	78	ALA	CA-C-N	6.97	129.94	120.38
1	dJ	78	ALA	C-N-CA	6.97	129.94	120.38
1	e9	190	LEU	O-C-N	-6.97	113.31	122.59
1	1p	92	GLU	O-C-N	-6.97	113.30	121.32
1	em	16	SER	O-C-N	-6.97	114.11	121.30
1	f4	92	GLU	CA-C-O	-6.97	112.72	120.25
1	fb	68	MET	CG-SD-CE	-6.97	85.56	100.90
1	fn	152	ASP	N-CA-CB	-6.97	100.17	110.49
1	2	39	MET	O-C-N	-6.97	113.69	122.27
1	E	217	ALA	CA-C-O	-6.97	113.50	120.82
1	I	204	ALA	N-CA-C	6.97	118.96	111.36
1	gc	203	LYS	O-C-N	6.97	129.51	122.12
1	gy	85	PRO	N-CA-CB	6.97	109.38	103.17
1	gG	173	ARG	NE-CZ-NH2	6.97	125.47	119.20
1	h6	146	SER	N-CA-C	6.97	125.22	109.81
1	hz	18	ARG	CA-C-N	6.97	129.50	120.44
1	hz	18	ARG	C-N-CA	6.97	129.50	120.44
1	im	57	ASN	CA-CB-CG	-6.97	105.63	112.60
1	iu	30	LYS	O-C-N	-6.97	115.01	122.19
1	iF	34	PRO	CA-C-N	6.97	130.32	120.28
1	iF	34	PRO	C-N-CA	6.97	130.32	120.28
1	1Y	200	THR	N-CA-CB	6.97	120.12	110.01
1	kd	84	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	kf	24	VAL	N-CA-C	6.97	117.11	110.42
1	kk	178	SER	N-CA-C	6.97	120.11	110.35
1	kI	29	GLU	N-CA-C	6.97	118.88	111.28
1	lA	202	LEU	CA-C-O	6.97	127.81	120.42
1	2h	192	GLN	O-C-N	-6.97	114.73	122.12
1	2H	85	PRO	N-CA-C	6.97	122.63	111.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	188	THR	N-CA-C	6.97	118.53	111.07
1	4X	140	LYS	O-C-N	6.97	129.34	122.09
1	58	35	GLU	N-CA-C	6.97	119.91	111.82
1	5g	5	ASN	CA-CB-CG	-6.97	105.63	112.60
1	5i	55	MET	N-CA-C	6.97	118.53	111.07
1	5W	170	LYS	N-CA-C	6.97	118.53	111.07
1	5X	56	LEU	N-CA-C	6.97	121.02	112.23
1	60	10	MET	CB-CA-C	6.97	121.63	111.73
1	6R	59	VAL	O-C-N	-6.97	115.01	122.61
1	6T	192	GLN	O-C-N	-6.97	114.62	122.08
1	7m	3	VAL	N-CA-CB	6.97	118.95	111.00
1	7o	180	GLU	N-CA-C	6.97	118.88	111.28
1	7H	84	HIS	CE1-NE2-CD2	-6.97	102.03	109.00
1	7L	143	ARG	N-CA-C	6.97	118.88	111.28
1	8i	144	MET	N-CA-C	6.97	118.96	111.36
1	8q	154	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	9p	115	ILE	O-C-N	-6.97	115.11	121.87
1	9L	63	GLN	CA-C-N	6.97	129.50	120.44
1	9L	63	GLN	C-N-CA	6.97	129.50	120.44
1	9Z	204	ALA	N-CA-C	6.97	120.27	111.69
1	aR	98	GLU	N-CA-C	6.97	118.50	109.64
1	b4	26	VAL	N-CA-C	6.97	117.11	110.42
1	b5	4	GLN	O-C-N	-6.97	113.97	122.20
1	c0	54	THR	O-C-N	-6.97	114.56	122.09
1	ct	36	VAL	N-CA-C	6.97	117.73	110.62
1	cw	113	GLU	CA-C-N	6.97	129.62	120.28
1	cw	113	GLU	C-N-CA	6.97	129.62	120.28
1	cR	134	ILE	O-C-N	-6.97	115.08	121.91
1	d3	66	MET	N-CA-C	6.97	119.48	111.11
1	eg	132	ARG	NE-CZ-NH2	6.97	125.47	119.20
1	ew	159	GLU	CA-C-N	6.97	127.01	119.90
1	ew	159	GLU	C-N-CA	6.97	127.01	119.90
1	eQ	167	ARG	N-CA-CB	6.97	120.12	110.01
1	1w	21	ASN	CA-C-N	6.97	129.95	120.54
1	1w	21	ASN	C-N-CA	6.97	129.95	120.54
1	fv	130	TYR	CA-C-N	6.97	129.50	120.44
1	fv	130	TYR	C-N-CA	6.97	129.50	120.44
1	fy	217	ALA	N-CA-C	-6.97	98.86	109.95
1	fJ	195	ASN	CB-CA-C	6.97	120.50	109.27
1	l	111	LEU	CA-C-O	6.97	127.99	119.97
1	gh	100	ARG	NE-CZ-NH2	-6.97	112.93	119.20
1	gJ	52	LEU	CA-C-O	-6.97	113.16	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hV	138	LEU	O-C-N	-6.97	114.73	122.12
1	hZ	18	ARG	N-CA-C	6.97	118.88	111.28
1	ij	223	GLY	CA-C-N	6.97	128.55	119.84
1	ij	223	GLY	C-N-CA	6.97	128.55	119.84
1	j6	160	PRO	CA-C-N	6.97	134.85	121.54
1	j6	160	PRO	C-N-CA	6.97	134.85	121.54
1	j9	208	ALA	CA-C-O	-6.97	113.21	120.32
1	kK	84	HIS	CE1-NE2-CD2	-6.97	102.03	109.00
1	kO	36	VAL	CA-C-N	6.97	124.63	120.24
1	kO	36	VAL	C-N-CA	6.97	124.63	120.24
1	kW	54	THR	N-CA-CB	6.97	120.37	110.12
1	lI	168	PHE	CA-CB-CG	6.97	120.77	113.80
1	2h	184	TRP	CA-C-N	6.97	129.50	120.44
1	2h	184	TRP	C-N-CA	6.97	129.50	120.44
1	4y	195	ASN	CA-CB-CG	6.97	119.57	112.60
1	54	219	GLN	OE1-CD-NE2	-6.97	115.63	122.60
1	5d	171	THR	CA-C-N	6.97	132.53	120.68
1	5d	171	THR	C-N-CA	6.97	132.53	120.68
1	5k	183	ASN	CA-CB-CG	-6.97	105.63	112.60
1	5B	112	GLN	N-CA-C	6.97	119.48	111.11
1	5I	69	LEU	CA-C-N	6.97	129.50	120.44
1	5I	69	LEU	C-N-CA	6.97	129.50	120.44
1	5K	203	LYS	CA-C-O	6.97	127.81	120.42
1	5O	19	THR	O-C-N	-6.97	114.84	122.09
1	6c	126	VAL	CA-C-N	6.97	127.68	119.94
1	6c	126	VAL	C-N-CA	6.97	127.68	119.94
1	7e	53	ASN	CA-CB-CG	6.97	119.57	112.60
1	7q	63	GLN	OE1-CD-NE2	-6.97	115.63	122.60
1	9i	115	ILE	N-CA-C	6.97	117.73	110.62
1	9K	57	ASN	CA-CB-CG	-6.97	105.63	112.60
1	cL	38	PRO	CA-C-N	6.97	129.62	120.28
1	cL	38	PRO	C-N-CA	6.97	129.62	120.28
1	dl	197	ASP	CA-CB-CG	-6.97	105.63	112.60
1	dU	120	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	ec	111	LEU	N-CA-C	6.97	118.88	111.28
1	eg	212	GLU	N-CA-C	6.97	118.88	111.28
1	fH	71	GLU	N-CA-C	6.97	119.47	111.11
1	g6	8	GLY	N-CA-C	-6.97	105.46	115.64
1	gi	15	ILE	CA-C-O	6.97	129.21	121.13
1	gm	151	LEU	N-CA-C	6.97	119.91	111.82
1	hY	140	LYS	N-CA-C	6.97	118.88	111.28
1	i3	38	PRO	N-CA-CB	6.97	110.91	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1P	144	MET	N-CA-C	6.97	118.88	111.28
1	ip	117	TRP	CA-C-N	6.97	129.50	120.44
1	ip	117	TRP	C-N-CA	6.97	129.50	120.44
1	iF	149	SER	CA-C-O	6.97	127.89	120.36
1	iU	179	GLN	N-CA-C	6.97	118.67	111.14
1	j8	107	THR	CA-C-O	6.97	127.81	120.42
1	jh	154	ARG	NE-CZ-NH2	6.97	125.47	119.20
1	jp	111	LEU	O-C-N	-6.97	114.73	122.12
1	kD	69	LEU	N-CA-C	6.97	118.53	111.07
1	23	74	ASN	O-C-N	-6.97	114.73	122.12
1	kM	206	GLY	O-C-N	-6.97	114.80	121.77
1	kV	229	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	ln	108	THR	N-CA-CB	6.97	120.74	110.56
1	2x	126	VAL	CA-C-N	6.97	127.67	119.94
1	2x	126	VAL	C-N-CA	6.97	127.67	119.94
1	2I	22	ALA	N-CA-C	6.97	118.88	111.28
1	2T	103	ASP	CA-C-N	6.97	129.34	120.56
1	2T	103	ASP	C-N-CA	6.97	129.34	120.56
1	6e	212	GLU	N-CA-C	6.97	118.53	111.07
1	6A	226	HIS	N-CA-C	6.97	118.88	111.28
1	6H	133	TRP	CA-C-O	-6.97	113.50	120.82
1	6Z	120	HIS	CA-C-N	-6.97	113.22	122.56
1	6Z	120	HIS	C-N-CA	-6.97	113.22	122.56
1	7S	7	GLN	CG-CD-NE2	-6.97	105.95	116.40
1	8b	195	ASN	O-C-N	-6.97	114.31	121.28
1	8l	169	TYR	N-CA-C	6.97	118.88	111.28
1	92	82	ARG	O-C-N	-6.97	113.70	122.27
1	9c	4	GLN	N-CA-CB	6.97	122.27	110.49
1	9z	139	ASN	N-CA-C	6.97	119.47	111.11
1	9W	166	ASP	CA-C-N	6.97	129.95	120.54
1	9W	166	ASP	C-N-CA	6.97	129.95	120.54
1	a6	28	GLU	CB-CA-C	6.97	122.36	110.79
1	bC	113	GLU	CB-CG-CD	-6.97	100.75	112.60
1	c6	87	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	ce	86	VAL	N-CA-C	6.97	120.81	112.80
1	ck	129	ILE	O-C-N	-6.97	115.11	121.87
1	dR	52	LEU	N-CA-C	6.97	118.53	111.07
1	dT	86	VAL	CA-C-O	6.97	129.19	121.04
1	e3	143	ARG	NH1-CZ-NH2	-6.97	110.24	119.30
1	e5	50	GLN	O-C-N	-6.97	114.73	122.12
1	ea	87	HIS	N-CA-CB	6.97	120.21	110.17
1	en	109	SER	CA-C-O	6.97	128.10	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	84	HIS	CA-C-N	6.97	128.55	119.84
1	eS	84	HIS	C-N-CA	6.97	128.55	119.84
1	f4	174	ALA	N-CA-C	6.97	118.88	111.28
1	fe	125	PRO	CA-C-N	6.97	129.34	120.56
1	fe	125	PRO	C-N-CA	6.97	129.34	120.56
1	1w	178	SER	N-CA-C	6.97	119.56	110.43
1	fk	215	MET	CA-C-N	6.97	129.95	120.54
1	fk	215	MET	C-N-CA	6.97	129.95	120.54
1	fo	162	ARG	CA-C-N	6.97	129.62	120.28
1	fo	162	ARG	C-N-CA	6.97	129.62	120.28
1	ft	84	HIS	CA-C-N	6.97	128.55	119.84
1	ft	84	HIS	C-N-CA	6.97	128.55	119.84
1	g7	182	LYS	CA-C-N	6.97	129.62	120.28
1	g7	182	LYS	C-N-CA	6.97	129.62	120.28
1	1B	63	GLN	N-CA-C	6.97	118.88	111.28
1	e	206	GLY	CA-C-N	6.97	128.55	119.84
1	e	206	GLY	C-N-CA	6.97	128.55	119.84
1	K	18	ARG	CG-CD-NE	-6.97	96.67	112.00
1	hB	27	VAL	O-C-N	-6.97	115.06	121.89
1	hL	173	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	i3	87	HIS	CB-CG-CD2	6.97	140.26	131.20
1	in	62	HIS	CA-CB-CG	6.97	120.77	113.80
1	iu	42	ALA	N-CA-C	6.97	118.53	111.07
1	iT	179	GLN	CA-C-N	6.97	129.50	120.44
1	iT	179	GLN	C-N-CA	6.97	129.50	120.44
1	iW	165	VAL	O-C-N	-6.97	115.11	121.87
1	kq	16	SER	CA-C-N	6.97	127.55	119.47
1	kq	16	SER	C-N-CA	6.97	127.55	119.47
1	ll	68	MET	CA-C-N	6.97	130.48	120.79
1	ll	68	MET	C-N-CA	6.97	130.48	120.79
1	3w	197	ASP	O-C-N	6.97	129.25	122.07
1	4x	97	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	5a	121	ASN	CA-C-O	-6.97	113.18	119.59
1	6a	37	ILE	O-C-N	-6.97	113.16	121.10
1	6R	100	ARG	NH1-CZ-NH2	-6.97	110.24	119.30
1	8l	126	VAL	N-CA-C	6.97	119.76	111.05
1	8N	73	ILE	CA-C-N	6.97	129.50	120.44
1	8N	73	ILE	C-N-CA	6.97	129.50	120.44
1	8Q	100	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	9h	132	ARG	NE-CZ-NH2	-6.97	112.93	119.20
1	9t	127	GLY	CA-C-N	6.97	129.50	120.44
1	9t	127	GLY	C-N-CA	6.97	129.50	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ab	86	VAL	O-C-N	-6.97	115.54	123.07
1	av	212	GLU	CA-C-O	-6.97	113.16	120.55
1	aC	82	ARG	CA-C-N	6.97	129.92	120.44
1	aC	82	ARG	C-N-CA	6.97	129.92	120.44
1	aY	137	GLY	CA-C-O	-6.97	112.63	120.09
1	c4	93	PRO	CB-CA-C	6.97	120.41	111.56
1	c9	124	ILE	O-C-N	-6.97	116.60	121.55
1	cO	226	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	cP	38	PRO	CA-C-N	6.97	129.93	120.38
1	cP	38	PRO	C-N-CA	6.97	129.93	120.38
1	dn	44	SER	CA-C-N	6.97	131.27	121.24
1	dn	44	SER	C-N-CA	6.97	131.27	121.24
1	eD	58	THR	N-CA-C	6.97	119.72	111.71
1	f6	135	ILE	N-CA-C	6.97	117.73	110.62
1	f8	56	LEU	N-CA-C	6.97	119.76	111.33
1	1y	6	LEU	N-CA-C	-6.97	106.68	114.62
1	fS	91	ILE	N-CA-CB	6.97	119.88	111.31
1	fY	107	THR	N-CA-C	6.97	119.47	111.11
1	o	229	ARG	O-C-N	-6.97	113.77	123.11
1	gw	142	VAL	N-CA-C	6.97	117.73	110.62
1	gP	229	ARG	O-C-N	-6.97	115.07	123.29
1	gX	229	ARG	N-CA-C	6.97	121.04	112.54
1	ha	98	GLU	N-CA-C	6.97	119.74	109.50
1	ha	176	GLN	N-CA-CB	6.97	123.40	112.25
1	hc	206	GLY	CA-C-N	6.97	126.44	118.85
1	hc	206	GLY	C-N-CA	6.97	126.44	118.85
1	hZ	227	LYS	CA-C-N	6.97	132.28	122.46
1	hZ	227	LYS	C-N-CA	6.97	132.28	122.46
1	1O	49	PRO	N-CA-CB	6.97	110.56	103.25
1	js	228	ALA	N-CA-C	6.97	120.34	109.96
1	k6	190	LEU	CA-C-N	6.97	130.00	120.46
1	k6	190	LEU	C-N-CA	6.97	130.00	120.46
1	kf	100	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	ku	26	VAL	CA-C-N	6.97	130.00	120.46
1	ku	26	VAL	C-N-CA	6.97	130.00	120.46
1	ky	212	GLU	CA-C-O	6.97	127.94	120.55
1	25	230	VAL	N-CA-C	6.97	120.79	109.78
1	lu	171	THR	CA-CB-CG2	-6.97	98.66	110.50
1	lz	92	GLU	CA-C-N	6.97	128.55	119.84
1	lz	92	GLU	C-N-CA	6.97	128.55	119.84
1	29	132	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	lG	181	VAL	O-C-N	-6.97	115.11	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2W	33	SER	CB-CA-C	-6.97	98.48	109.42
1	32	55	MET	CA-C-N	6.97	130.18	120.29
1	32	55	MET	C-N-CA	6.97	130.18	120.29
1	3k	166	ASP	N-CA-C	6.97	119.47	111.11
1	3y	164	TYR	N-CA-C	6.97	118.52	111.07
1	4N	134	ILE	O-C-N	6.97	128.74	121.91
1	4O	62	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	4W	84	HIS	CE1-NE2-CD2	-6.97	102.03	109.00
1	4Y	51	ASP	N-CA-C	6.97	118.52	111.07
1	5c	50	GLN	CA-C-N	6.97	129.62	120.28
1	5c	50	GLN	C-N-CA	6.97	129.62	120.28
1	5f	88	ALA	CA-C-N	6.97	132.81	121.87
1	5f	88	ALA	C-N-CA	6.97	132.81	121.87
1	5r	15	ILE	O-C-N	-6.97	115.56	122.67
1	5u	156	GLY	O-C-N	-6.97	114.80	121.77
1	5v	40	PHE	CA-CB-CG	-6.97	106.83	113.80
1	5x	141	ILE	O-C-N	-6.97	115.08	121.91
1	5M	22	ALA	CA-C-O	6.97	127.94	120.55
1	5U	190	LEU	CA-C-N	6.97	129.34	120.56
1	5U	190	LEU	C-N-CA	6.97	129.34	120.56
1	62	84	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	6t	89	GLY	O-C-N	-6.97	114.80	121.77
1	6I	114	GLN	O-C-N	-6.97	113.70	122.27
1	73	191	VAL	O-C-N	-6.97	115.06	121.89
1	76	103	ASP	CA-CB-CG	6.97	119.57	112.60
1	7A	181	VAL	N-CA-C	6.97	117.75	110.72
1	7K	21	ASN	OD1-CG-ND2	-6.97	115.63	122.60
1	81	122	PRO	N-CA-CB	6.97	110.26	102.60
1	8W	199	LYS	CA-C-N	6.97	129.50	120.44
1	8W	199	LYS	C-N-CA	6.97	129.50	120.44
1	9n	62	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	9w	107	THR	N-CA-C	-6.97	102.14	111.96
1	9D	71	GLU	O-C-N	-6.97	114.89	122.07
1	9G	86	VAL	CB-CA-C	-6.97	102.13	110.84
1	9G	139	ASN	CA-CB-CG	6.97	119.57	112.60
1	9H	229	ARG	NH1-CZ-NH2	-6.97	110.24	119.30
1	ah	213	GLU	CA-C-O	-6.97	113.11	120.63
1	ai	169	TYR	O-C-N	-6.97	114.73	122.12
1	aH	172	LEU	CA-C-N	6.97	129.50	120.44
1	aH	172	LEU	C-N-CA	6.97	129.50	120.44
1	aW	195	ASN	OD1-CG-ND2	-6.97	115.63	122.60
1	1i	79	GLU	N-CA-C	6.97	118.52	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dv	179	GLN	CA-C-N	6.97	129.50	120.44
1	dv	179	GLN	C-N-CA	6.97	129.50	120.44
1	dT	149	SER	O-C-N	-6.97	115.07	123.29
1	dW	84	HIS	ND1-CE1-NE2	6.97	115.37	108.40
1	e1	132	ARG	NE-CZ-NH1	6.97	128.47	121.50
1	e2	142	VAL	CA-C-O	-6.97	113.80	121.05
1	ef	140	LYS	CA-C-N	6.97	130.00	120.46
1	ef	140	LYS	C-N-CA	6.97	130.00	120.46
1	ff	100	ARG	CD-NE-CZ	-6.97	114.65	124.40
1	fi	41	SER	CA-C-O	6.97	128.13	120.82
1	1y	224	PRO	CA-C-N	6.97	135.06	121.41
1	1y	224	PRO	C-N-CA	6.97	135.06	121.41
1	1z	86	VAL	CB-CA-C	6.97	122.72	111.29
1	a	181	VAL	CA-C-O	-6.97	113.79	121.17
1	L	135	ILE	CA-C-N	6.97	129.62	120.28
1	L	135	ILE	C-N-CA	6.97	129.62	120.28
1	4	30	LYS	O-C-N	-6.97	113.28	122.20
1	R	212	GLU	N-CA-C	6.97	118.87	111.28
1	U	91	ILE	N-CA-C	-6.97	98.12	108.99
1	gy	167	ARG	CA-C-N	6.96	129.91	120.44
1	gy	167	ARG	C-N-CA	6.96	129.91	120.44
1	gA	114	GLN	N-CA-C	6.96	118.52	111.07
1	gI	115	ILE	N-CA-CB	-6.96	101.07	110.54
1	1F	17	PRO	N-CA-C	-6.96	104.07	113.40
1	gQ	119	THR	CA-CB-CG2	-6.96	98.66	110.50
1	h5	179	GLN	CA-C-N	6.96	129.49	120.44
1	h5	179	GLN	C-N-CA	6.96	129.49	120.44
1	h8	18	ARG	NH1-CZ-NH2	6.96	128.35	119.30
1	hR	218	CYS	N-CA-C	6.96	121.16	112.24
1	il	87	HIS	N-CA-CB	-6.96	99.70	110.56
1	iL	152	ASP	CA-C-O	6.96	126.71	119.05
1	iP	112	GLN	N-CA-C	6.96	118.87	111.28
1	je	57	ASN	CA-CB-CG	-6.96	105.64	112.60
1	jt	132	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	jB	32	PHE	CA-CB-CG	-6.96	106.84	113.80
1	kj	3	VAL	CB-CA-C	6.96	121.21	110.83
1	kY	165	VAL	CA-C-N	6.96	129.61	120.28
1	kY	165	VAL	C-N-CA	6.96	129.61	120.28
1	kY	174	ALA	CA-C-N	6.96	130.76	120.87
1	kY	174	ALA	C-N-CA	6.96	130.76	120.87
1	lE	110	THR	CA-CB-OG1	6.96	120.05	109.60
1	2s	92	GLU	CA-C-N	6.96	126.95	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	92	GLU	C-N-CA	6.96	126.95	119.78
1	2O	191	VAL	O-C-N	-6.96	114.66	121.90
1	3a	136	LEU	CA-C-N	6.96	127.83	120.03
1	3a	136	LEU	C-N-CA	6.96	127.83	120.03
1	3c	142	VAL	N-CA-C	6.96	120.78	111.17
1	3u	176	GLN	CA-C-N	6.96	132.43	121.56
1	3u	176	GLN	C-N-CA	6.96	132.43	121.56
1	3A	48	THR	CA-C-N	6.96	126.57	119.19
1	3A	48	THR	C-N-CA	6.96	126.57	119.19
1	4h	185	MET	N-CA-C	6.96	119.72	111.71
1	59	191	VAL	N-CA-C	6.96	119.72	112.83
1	5j	138	LEU	O-C-N	-6.96	114.74	122.12
1	5k	229	ARG	NE-CZ-NH1	6.96	128.47	121.50
1	5w	69	LEU	O-C-N	-6.96	114.79	122.03
1	65	169	TYR	N-CA-C	6.96	118.87	111.28
1	6g	76	GLU	N-CA-CB	6.96	120.47	110.16
1	6t	50	GLN	N-CA-C	6.96	118.87	111.28
1	6J	194	ALA	N-CA-C	6.96	120.33	110.23
1	6R	34	PRO	N-CA-C	6.96	122.56	114.20
1	7g	132	ARG	NE-CZ-NH2	-6.96	112.93	119.20
1	7y	163	ASP	N-CA-CB	6.96	120.47	110.16
1	7N	129	ILE	CB-CA-C	-6.96	102.61	112.22
1	84	149	SER	CA-C-N	6.96	129.34	120.56
1	84	149	SER	C-N-CA	6.96	129.34	120.56
1	9w	225	GLY	N-CA-C	6.96	121.58	112.25
1	9Z	71	GLU	CA-C-N	6.96	130.18	120.29
1	9Z	71	GLU	C-N-CA	6.96	130.18	120.29
1	a7	74	ASN	N-CA-C	6.96	119.47	111.11
1	aq	101	GLY	CA-C-O	6.96	127.96	120.30
1	as	133	TRP	N-CA-C	6.96	119.90	111.82
1	16	54	THR	N-CA-C	6.96	118.52	111.07
1	bJ	101	GLY	O-C-N	-6.96	115.41	122.17
1	1a	186	THR	N-CA-C	6.96	118.87	111.28
1	bX	100	ARG	NE-CZ-NH1	6.96	128.47	121.50
1	bY	90	PRO	CA-C-O	-6.96	113.96	121.27
1	c0	73	ILE	CA-C-N	6.96	130.18	120.29
1	c0	73	ILE	C-N-CA	6.96	130.18	120.29
1	cC	205	LEU	CA-C-N	6.96	132.80	121.87
1	cC	205	LEU	C-N-CA	6.96	132.80	121.87
1	cK	97	ARG	NE-CZ-NH2	-6.96	112.93	119.20
1	dy	22	ALA	N-CA-C	6.96	118.95	111.36
1	dY	131	LYS	CA-CB-CG	6.96	128.03	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ei	215	MET	N-CA-C	6.96	118.87	111.28
1	eJ	215	MET	N-CA-C	6.96	119.72	111.71
1	eM	101	GLY	N-CA-C	6.96	121.33	112.83
1	eM	166	ASP	N-CA-C	6.96	118.52	111.07
1	eQ	108	THR	CA-CB-OG1	6.96	120.05	109.60
1	eQ	133	TRP	N-CA-CB	6.96	120.36	110.12
1	eU	22	ALA	CA-C-O	6.96	127.97	120.24
1	fr	212	GLU	O-C-N	-6.96	114.74	122.12
1	fW	173	ARG	NE-CZ-NH1	6.96	128.47	121.50
1	g2	81	ASP	O-C-N	-6.96	114.74	122.12
1	l	165	VAL	N-CA-C	6.96	117.11	110.42
1	W	73	ILE	N-CA-C	6.96	117.72	110.62
1	hw	169	TYR	N-CA-C	6.96	118.95	111.36
1	in	100	ARG	NH1-CZ-NH2	-6.96	110.25	119.30
1	iM	173	ARG	N-CA-C	6.96	118.87	111.28
1	lq	205	LEU	CA-C-O	-6.96	113.51	120.82
1	3j	90	PRO	CB-CA-C	6.96	123.05	111.56
1	3o	105	ALA	CA-C-O	6.96	128.15	120.63
1	3z	111	LEU	O-C-N	-6.96	114.74	122.12
1	3Q	132	ARG	CA-C-N	6.96	130.18	120.29
1	3Q	132	ARG	C-N-CA	6.96	130.18	120.29
1	5a	12	HIS	CE1-NE2-CD2	-6.96	102.04	109.00
1	5s	166	ASP	CA-C-N	6.96	129.61	120.28
1	5s	166	ASP	C-N-CA	6.96	129.61	120.28
1	67	174	ALA	N-CA-C	-6.96	105.72	114.56
1	6y	201	ILE	O-C-N	-6.96	115.09	121.91
1	6G	165	VAL	CA-C-N	6.96	129.94	120.54
1	6G	165	VAL	C-N-CA	6.96	129.94	120.54
1	6O	201	ILE	CA-C-N	6.96	129.49	120.44
1	6O	201	ILE	C-N-CA	6.96	129.49	120.44
1	6U	186	THR	CA-C-N	6.96	129.61	120.28
1	6U	186	THR	C-N-CA	6.96	129.61	120.28
1	6W	226	HIS	CG-CD2-NE2	6.96	114.16	107.20
1	72	155	GLN	CA-C-N	6.96	132.80	121.87
1	72	155	GLN	C-N-CA	6.96	132.80	121.87
1	7B	50	GLN	CA-C-N	6.96	129.49	120.44
1	7B	50	GLN	C-N-CA	6.96	129.49	120.44
1	7D	19	THR	O-C-N	-6.96	114.90	122.07
1	7U	134	ILE	O-C-N	-6.96	114.66	121.83
1	8e	198	CYS	N-CA-C	6.96	118.87	111.28
1	8v	18	ARG	CA-C-O	6.96	127.80	120.42
1	8J	5	ASN	CB-CG-OD1	6.96	134.73	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	95	50	GLN	CG-CD-OE1	6.96	134.73	120.80
1	9R	71	GLU	CA-C-N	6.96	129.49	120.44
1	9R	71	GLU	C-N-CA	6.96	129.49	120.44
1	9V	162	ARG	N-CA-C	6.96	119.47	111.11
1	Z	92	GLU	CA-C-N	6.96	126.99	119.89
1	Z	92	GLU	C-N-CA	6.96	126.99	119.89
1	aZ	75	GLU	N-CA-C	6.96	119.47	111.11
1	cs	66	MET	O-C-N	-6.96	114.90	122.07
1	cQ	134	ILE	CA-C-N	6.96	129.89	120.77
1	cQ	134	ILE	C-N-CA	6.96	129.89	120.77
1	dg	21	ASN	CA-C-N	6.96	129.61	120.28
1	dg	21	ASN	C-N-CA	6.96	129.61	120.28
1	du	217	ALA	N-CA-C	6.96	118.87	111.28
1	dK	50	GLN	CA-C-N	6.96	129.49	120.44
1	dK	50	GLN	C-N-CA	6.96	129.49	120.44
1	fr	4	GLN	CA-C-O	6.96	128.93	121.55
1	fr	16	SER	CA-C-N	6.96	126.57	119.19
1	fr	16	SER	C-N-CA	6.96	126.57	119.19
1	1	138	LEU	CA-C-O	6.96	127.93	120.55
1	p	101	GLY	CA-C-O	6.96	127.92	120.75
1	3	173	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	gy	130	TYR	O-C-N	-6.96	114.90	122.07
1	gI	209	ALA	N-CA-CB	6.96	120.27	110.04
1	gP	191	VAL	CA-C-O	6.96	127.10	120.14
1	gX	145	TYR	O-C-N	-6.96	113.79	122.35
1	h1	195	ASN	OD1-CG-ND2	-6.96	115.64	122.60
1	hU	3	VAL	CA-C-O	6.96	128.58	120.71
1	hZ	143	ARG	O-C-N	-6.96	113.71	122.27
1	i0	92	GLU	O-C-N	-6.96	114.52	121.27
1	i5	164	TYR	N-CA-C	6.96	118.87	111.28
1	iv	25	LYS	N-CA-C	6.96	119.72	111.71
1	ix	166	ASP	O-C-N	-6.96	114.90	122.07
1	iD	73	ILE	CA-C-N	6.96	129.94	120.54
1	iD	73	ILE	C-N-CA	6.96	129.94	120.54
1	jP	72	THR	N-CA-C	6.96	119.46	111.11
1	jT	206	GLY	CA-C-N	6.96	127.00	119.90
1	jT	206	GLY	C-N-CA	6.96	127.00	119.90
1	21	171	THR	CA-C-N	6.96	130.31	120.28
1	21	171	THR	C-N-CA	6.96	130.31	120.28
1	kA	213	GLU	N-CA-C	6.96	118.52	111.07
1	kO	36	VAL	N-CA-C	6.96	117.72	110.62
1	l1	117	TRP	CA-C-N	6.96	129.61	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	117	TRP	C-N-CA	6.96	129.61	120.28
1	lj	92	GLU	CA-C-N	6.96	128.54	119.84
1	lj	92	GLU	C-N-CA	6.96	128.54	119.84
1	2o	30	LYS	CA-C-N	6.96	132.00	122.19
1	2o	30	LYS	C-N-CA	6.96	132.00	122.19
1	2I	33	SER	CA-C-N	6.96	126.64	119.82
1	2I	33	SER	C-N-CA	6.96	126.64	119.82
1	2R	57	ASN	CA-CB-CG	6.96	119.56	112.60
1	2Z	216	THR	N-CA-C	-6.96	104.42	113.12
1	37	37	ILE	N-CA-CB	6.96	115.18	110.52
1	3c	78	ALA	CA-C-N	6.96	129.94	120.54
1	3c	78	ALA	C-N-CA	6.96	129.94	120.54
1	3g	129	ILE	O-C-N	-6.96	114.98	121.94
1	4G	154	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	4H	137	GLY	N-CA-C	6.96	121.08	112.73
1	4X	75	GLU	CA-C-N	6.96	129.49	120.44
1	4X	75	GLU	C-N-CA	6.96	129.49	120.44
1	5o	152	ASP	CA-C-O	6.96	127.81	119.59
1	60	170	LYS	CA-C-N	6.96	129.94	120.54
1	60	170	LYS	C-N-CA	6.96	129.94	120.54
1	66	132	ARG	NH1-CZ-NH2	-6.96	110.25	119.30
1	6b	205	LEU	N-CA-C	6.96	118.87	111.28
1	6H	141	ILE	CA-C-N	6.96	129.33	120.56
1	6H	141	ILE	C-N-CA	6.96	129.33	120.56
1	6M	180	GLU	CA-C-O	6.96	127.93	120.55
1	7c	74	ASN	CA-CB-CG	-6.96	105.64	112.60
1	7g	78	ALA	CA-C-O	6.96	128.13	120.82
1	7k	48	THR	CA-CB-OG1	6.96	120.04	109.60
1	7r	20	LEU	O-C-N	-6.96	114.90	122.07
1	7U	145	TYR	CA-C-O	6.96	127.85	119.43
1	7V	138	LEU	N-CA-C	6.96	118.95	111.36
1	8h	3	VAL	O-C-N	-6.96	115.66	123.18
1	8j	168	PHE	CA-CB-CG	6.96	120.76	113.80
1	8M	14	ALA	CA-C-N	6.96	129.83	120.50
1	8M	14	ALA	C-N-CA	6.96	129.83	120.50
1	8V	62	HIS	CA-CB-CG	-6.96	106.84	113.80
1	an	162	ARG	CD-NE-CZ	6.96	134.15	124.40
1	aB	139	ASN	N-CA-C	6.96	118.87	111.28
1	19	156	GLY	O-C-N	-6.96	114.81	121.77
1	bG	167	ARG	NE-CZ-NH2	-6.96	112.94	119.20
1	1a	24	VAL	N-CA-C	6.96	117.10	110.42
1	c0	90	PRO	CA-C-N	6.96	130.45	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c0	90	PRO	C-N-CA	6.96	130.45	120.98
1	c1	172	LEU	O-C-N	-6.96	113.99	122.34
1	cb	215	MET	N-CA-C	6.96	119.90	111.82
1	cQ	32	PHE	CA-C-N	6.96	131.26	120.68
1	cQ	32	PHE	C-N-CA	6.96	131.26	120.68
1	dE	162	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	dH	24	VAL	CB-CA-C	-6.96	103.06	111.97
1	ee	223	GLY	O-C-N	-6.96	114.81	121.77
1	er	161	PHE	O-C-N	-6.96	114.74	122.12
1	eI	192	GLN	OE1-CD-NE2	-6.96	115.64	122.60
1	1w	132	ARG	N-CA-C	6.96	118.87	111.28
1	fr	169	TYR	CA-C-O	-6.96	113.17	120.55
1	H	217	ALA	CA-C-O	6.96	127.92	119.64
1	gx	162	ARG	NE-CZ-NH1	-6.96	114.54	121.50
1	gS	128	GLU	CA-C-O	-6.96	113.04	120.42
1	in	131	LYS	N-CA-CB	6.96	120.35	110.12
1	iI	153	ILE	CB-CA-C	6.96	120.09	111.25
1	kC	221	VAL	CA-C-O	6.96	126.30	119.97
1	lz	35	GLU	N-CA-C	6.96	120.66	111.75
1	lD	93	PRO	N-CA-C	6.96	122.15	111.15
1	2i	159	GLU	CA-C-N	6.96	126.99	119.89
1	2i	159	GLU	C-N-CA	6.96	126.99	119.89
1	3Z	146	SER	O-C-N	-6.96	116.04	121.47
1	4w	226	HIS	CA-CB-CG	6.96	120.76	113.80
1	59	35	GLU	N-CA-C	6.96	121.52	112.89
1	5i	193	ASN	CA-CB-CG	6.96	119.56	112.60
1	67	101	GLY	O-C-N	6.96	129.62	122.24
1	6M	175	GLU	O-C-N	-6.96	114.65	122.86
1	6S	181	VAL	CA-C-O	6.96	128.51	121.27
1	7h	96	MET	N-CA-C	6.96	119.10	108.52
1	7q	229	ARG	N-CA-C	6.96	120.32	110.23
1	7y	160	PRO	O-C-N	-6.96	114.38	123.01
1	8y	152	ASP	CA-C-N	6.96	130.93	120.77
1	8y	152	ASP	C-N-CA	6.96	130.93	120.77
1	a0	163	ASP	CA-C-N	6.96	129.49	120.44
1	a0	163	ASP	C-N-CA	6.96	129.49	120.44
1	ar	58	THR	CA-C-N	6.96	131.20	122.43
1	ar	58	THR	C-N-CA	6.96	131.20	122.43
1	as	221	VAL	O-C-N	-6.96	115.74	123.26
1	12	46	GLY	CA-C-N	6.96	130.69	120.95
1	12	46	GLY	C-N-CA	6.96	130.69	120.95
1	aT	120	HIS	ND1-CE1-NE2	6.96	115.36	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	174	ALA	CA-C-N	6.96	130.63	120.82
1	ce	174	ALA	C-N-CA	6.96	130.63	120.82
1	cu	92	GLU	O-C-N	-6.96	113.73	121.53
1	1f	62	HIS	CB-CG-ND1	-6.96	112.26	122.70
1	cC	139	ASN	O-C-N	-6.96	114.08	122.22
1	dT	53	ASN	OD1-CG-ND2	-6.96	115.64	122.60
1	1p	156	GLY	CA-C-N	6.96	126.44	118.85
1	1p	156	GLY	C-N-CA	6.96	126.44	118.85
1	ei	32	PHE	CA-C-N	6.96	132.15	122.06
1	ei	32	PHE	C-N-CA	6.96	132.15	122.06
1	f7	95	GLN	CA-C-N	6.96	130.59	120.71
1	f7	95	GLN	C-N-CA	6.96	130.59	120.71
1	1z	136	LEU	CA-C-O	6.96	128.35	120.90
1	r	167	ARG	N-CA-C	6.96	118.87	111.28
1	Q	16	SER	CA-C-N	6.96	127.54	119.47
1	Q	16	SER	C-N-CA	6.96	127.54	119.47
1	gP	66	MET	O-C-N	-6.96	114.74	122.12
1	gR	10	MET	O-C-N	-6.96	113.94	123.12
1	h5	229	ARG	NE-CZ-NH2	-6.96	112.94	119.20
1	ha	106	GLY	CA-C-N	6.96	129.93	120.54
1	ha	106	GLY	C-N-CA	6.96	129.93	120.54
1	1I	219	GLN	N-CA-C	-6.96	104.67	113.72
1	hQ	195	ASN	CA-CB-CG	6.96	119.56	112.60
1	hV	153	ILE	CA-C-N	6.96	131.00	121.05
1	hV	153	ILE	C-N-CA	6.96	131.00	121.05
1	ir	52	LEU	N-CA-C	6.96	118.52	111.07
1	jD	139	ASN	CA-CB-CG	6.96	119.56	112.60
1	jF	90	PRO	CA-C-N	6.96	134.05	122.57
1	jF	90	PRO	C-N-CA	6.96	134.05	122.57
1	jU	48	THR	N-CA-CB	6.96	119.38	109.78
1	jZ	74	ASN	O-C-N	-6.96	114.90	122.07
1	k3	120	HIS	CE1-NE2-CD2	-6.96	102.04	109.00
1	kK	135	ILE	CA-C-N	6.96	129.49	120.44
1	kK	135	ILE	C-N-CA	6.96	129.49	120.44
1	kM	66	MET	N-CA-C	6.96	118.87	111.28
1	lO	117	TRP	N-CA-C	6.96	118.86	111.28
1	2i	137	GLY	CA-C-N	6.96	129.60	120.28
1	2i	137	GLY	C-N-CA	6.96	129.60	120.28
1	2p	221	VAL	N-CA-C	6.96	117.72	110.62
1	2N	192	GLN	N-CA-C	6.96	118.94	111.36
1	2U	100	ARG	CA-C-N	6.96	127.70	119.98
1	2U	100	ARG	C-N-CA	6.96	127.70	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	44	80	TRP	CA-C-N	6.96	129.60	120.28
1	44	80	TRP	C-N-CA	6.96	129.60	120.28
1	4y	226	HIS	CA-CB-CG	6.96	120.76	113.80
1	4J	33	SER	N-CA-CB	-6.96	104.12	111.29
1	4V	76	GLU	N-CA-C	6.96	118.86	111.28
1	5h	87	HIS	CA-C-N	6.96	129.93	120.54
1	5h	87	HIS	C-N-CA	6.96	129.93	120.54
1	5R	129	ILE	CA-C-N	6.96	129.60	120.28
1	5R	129	ILE	C-N-CA	6.96	129.60	120.28
1	5T	131	LYS	N-CA-C	6.96	118.52	111.07
1	69	223	GLY	CA-C-N	6.96	127.34	119.83
1	69	223	GLY	C-N-CA	6.96	127.34	119.83
1	6J	13	GLN	O-C-N	-6.96	115.32	123.25
1	77	53	ASN	O-C-N	-6.96	114.85	122.09
1	7h	199	LYS	N-CA-C	6.96	118.95	111.36
1	7m	148	THR	CA-C-N	6.96	130.71	120.90
1	7m	148	THR	C-N-CA	6.96	130.71	120.90
1	7x	23	TRP	N-CA-C	6.96	119.51	111.02
1	7S	28	GLU	N-CA-C	6.96	118.87	111.28
1	8e	177	ALA	N-CA-C	6.96	125.62	110.80
1	8k	21	ASN	O-C-N	-6.96	114.85	122.09
1	8l	130	TYR	CA-C-O	6.96	127.80	120.42
1	8z	4	GLN	CA-C-N	6.96	131.68	121.31
1	8z	4	GLN	C-N-CA	6.96	131.68	121.31
1	8D	10	MET	CA-C-O	6.96	129.15	121.56
1	8G	177	ALA	N-CA-C	6.96	119.81	110.35
1	8H	184	TRP	CB-CG-CD1	-6.96	116.46	126.90
1	9i	92	GLU	O-C-N	-6.96	116.98	121.85
1	9D	126	VAL	N-CA-C	6.96	119.75	111.05
1	9R	135	ILE	CA-C-N	6.96	129.49	120.44
1	9R	135	ILE	C-N-CA	6.96	129.49	120.44
1	9V	36	VAL	CA-C-N	6.96	125.90	120.33
1	9V	36	VAL	C-N-CA	6.96	125.90	120.33
1	ab	223	GLY	O-C-N	6.96	128.73	121.77
1	ad	27	VAL	CA-C-O	-6.96	113.47	120.85
1	af	64	ALA	CA-C-O	6.96	127.93	120.55
1	an	12	HIS	CA-CB-CG	6.96	120.76	113.80
1	b6	42	ALA	N-CA-CB	-6.96	99.49	110.28
1	bg	9	GLN	OE1-CD-NE2	6.96	129.56	122.60
1	bh	103	ASP	CA-CB-CG	6.96	119.56	112.60
1	bC	103	ASP	CA-C-N	6.96	130.34	120.53
1	bC	103	ASP	C-N-CA	6.96	130.34	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bD	194	ALA	N-CA-C	6.96	125.62	110.80
1	cC	194	ALA	CA-C-N	6.96	131.26	120.68
1	cC	194	ALA	C-N-CA	6.96	131.26	120.68
1	cE	12	HIS	CE1-NE2-CD2	-6.96	102.04	109.00
1	cY	99	PRO	O-C-N	-6.96	116.18	122.93
1	1j	92	GLU	N-CA-C	6.96	119.51	109.84
1	dp	7	GLN	CA-C-N	6.96	127.52	122.16
1	dp	7	GLN	C-N-CA	6.96	127.52	122.16
1	dW	62	HIS	N-CA-C	6.96	121.26	111.52
1	dY	163	ASP	CA-CB-CG	6.96	119.56	112.60
1	ea	125	PRO	O-C-N	6.96	130.61	122.26
1	1y	171	THR	CA-C-N	6.96	130.89	120.31
1	1y	171	THR	C-N-CA	6.96	130.89	120.31
1	fR	138	LEU	CA-C-N	6.96	129.49	120.44
1	fR	138	LEU	C-N-CA	6.96	129.49	120.44
1	fY	176	GLN	CA-C-O	6.96	127.60	119.32
1	1B	167	ARG	N-CA-C	6.96	119.71	111.71
1	W	178	SER	CA-C-O	6.96	129.94	121.87
1	1C	202	LEU	N-CA-CB	-6.96	99.06	110.40
1	gy	173	ARG	N-CA-C	6.96	119.75	111.33
1	1G	5	ASN	CA-CB-CG	6.96	119.56	112.60
1	ht	153	ILE	O-C-N	6.96	130.43	122.64
1	hO	23	TRP	N-CA-C	6.96	118.65	111.14
1	i9	191	VAL	N-CA-C	6.96	117.07	110.53
1	iU	149	SER	O-C-N	-6.96	115.41	123.27
1	jM	113	GLU	CA-C-N	6.96	129.60	120.28
1	jM	113	GLU	C-N-CA	6.96	129.60	120.28
1	jR	1	PRO	N-CA-CB	6.96	110.65	103.00
1	kp	9	GLN	O-C-N	-6.96	113.34	122.59
1	kZ	181	VAL	N-CA-C	6.96	117.72	110.62
1	2F	33	SER	O-C-N	-6.96	113.64	121.43
1	2P	171	THR	CA-C-N	6.96	129.48	120.44
1	2P	171	THR	C-N-CA	6.96	129.48	120.44
1	2R	190	LEU	CA-C-N	6.96	129.32	120.56
1	2R	190	LEU	C-N-CA	6.96	129.32	120.56
1	3p	111	LEU	N-CA-C	6.96	119.46	111.11
1	3t	119	THR	CA-C-N	6.96	131.25	120.75
1	3t	119	THR	C-N-CA	6.96	131.25	120.75
1	4a	5	ASN	CA-CB-CG	-6.96	105.64	112.60
1	4r	50	GLN	CA-C-O	6.96	128.34	120.90
1	4u	223	GLY	CA-C-O	-6.96	114.31	121.62
1	4E	90	PRO	CA-C-O	-6.96	113.74	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4J	168	PHE	CA-C-N	6.96	130.17	120.29
1	4J	168	PHE	C-N-CA	6.96	130.17	120.29
1	4K	186	THR	CA-C-N	6.96	130.17	120.29
1	4K	186	THR	C-N-CA	6.96	130.17	120.29
1	52	70	LYS	N-CA-CB	6.96	120.10	110.01
1	5n	96	MET	N-CA-C	6.96	120.58	110.42
1	6l	12	HIS	CE1-NE2-CD2	-6.96	102.04	109.00
1	6w	198	CYS	CA-C-N	6.96	130.46	120.79
1	6w	198	CYS	C-N-CA	6.96	130.46	120.79
1	8k	166	ASP	CA-CB-CG	6.96	119.56	112.60
1	8m	174	ALA	O-C-N	-6.96	114.22	122.15
1	8L	110	THR	O-C-N	-6.96	114.86	122.79
1	9s	201	ILE	CA-C-N	6.96	129.48	120.44
1	9s	201	ILE	C-N-CA	6.96	129.48	120.44
1	10	192	GLN	N-CA-C	6.96	119.46	111.11
1	ax	125	PRO	CA-C-N	6.96	129.99	120.46
1	ax	125	PRO	C-N-CA	6.96	129.99	120.46
1	b0	193	ASN	OD1-CG-ND2	-6.96	115.64	122.60
1	b2	64	ALA	CA-C-O	6.96	127.80	120.42
1	bk	172	LEU	N-CA-C	6.96	118.86	111.28
1	bv	5	ASN	N-CA-C	-6.96	104.94	113.50
1	ce	202	LEU	CA-C-N	6.96	129.48	120.44
1	ce	202	LEU	C-N-CA	6.96	129.48	120.44
1	dk	82	ARG	NE-CZ-NH2	-6.96	112.94	119.20
1	dQ	180	GLU	CA-C-N	6.96	129.46	120.56
1	dQ	180	GLU	C-N-CA	6.96	129.46	120.56
1	e0	7	GLN	N-CA-C	6.96	121.07	112.58
1	et	119	THR	CA-C-O	6.96	128.06	119.78
1	eX	192	GLN	OE1-CD-NE2	6.96	129.56	122.60
1	f3	6	LEU	N-CA-C	-6.96	103.68	112.93
1	fj	192	GLN	N-CA-C	6.96	125.62	110.80
1	fq	226	HIS	ND1-CE1-NE2	6.96	115.36	108.40
1	fQ	63	GLN	N-CA-C	6.96	119.71	111.71
1	g	87	HIS	CB-CG-ND1	-6.96	112.27	122.70
1	g	200	THR	CA-C-N	6.96	129.57	120.60
1	g	200	THR	C-N-CA	6.96	129.57	120.60
1	1	179	GLN	CA-C-N	6.96	129.48	120.44
1	1	179	GLN	C-N-CA	6.96	129.48	120.44
1	u	71	GLU	CB-CG-CD	-6.96	100.77	112.60
1	A	112	GLN	N-CA-C	6.96	122.78	111.37
1	C	145	TYR	O-C-N	-6.96	112.93	122.46
1	J	91	ILE	N-CA-C	-6.96	106.00	112.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	168	PHE	N-CA-CB	-6.96	99.92	110.01
1	gW	39	MET	CA-C-N	6.96	129.91	120.38
1	gW	39	MET	C-N-CA	6.96	129.91	120.38
1	h2	102	SER	O-C-N	-6.96	113.34	122.59
1	1I	176	GLN	CB-CG-CD	-6.96	100.78	112.60
1	hp	134	ILE	N-CA-C	6.96	117.10	110.42
1	1L	16	SER	O-C-N	-6.96	113.64	121.43
1	hW	76	GLU	N-CA-C	6.96	119.89	111.82
1	i1	110	THR	CA-C-O	-6.96	113.80	121.87
1	1W	219	GLN	N-CA-C	6.96	118.86	111.28
1	jN	57	ASN	CA-C-N	6.96	129.93	120.54
1	jN	57	ASN	C-N-CA	6.96	129.93	120.54
1	kw	214	MET	CA-C-O	6.96	127.93	119.31
1	kZ	152	ASP	O-C-N	-6.96	113.83	122.24
1	ld	162	ARG	NE-CZ-NH1	6.96	128.46	121.50
1	lB	187	GLU	N-CA-C	6.96	118.51	111.07
1	lQ	132	ARG	N-CA-C	6.96	118.86	111.28
1	2h	64	ALA	N-CA-C	6.96	118.51	111.07
1	2L	11	VAL	O-C-N	-6.96	115.53	122.76
1	3y	110	THR	N-CA-CB	6.96	122.24	110.49
1	3Z	92	GLU	O-C-N	-6.96	114.11	120.92
1	5z	77	ALA	CA-C-N	6.96	129.60	120.28
1	5z	77	ALA	C-N-CA	6.96	129.60	120.28
1	5V	40	PHE	O-C-N	-6.96	114.11	122.11
1	6e	79	GLU	N-CA-C	6.96	122.84	111.37
1	6v	131	LYS	CA-C-N	6.96	129.60	120.28
1	6v	131	LYS	C-N-CA	6.96	129.60	120.28
1	6I	220	GLY	CA-C-O	6.96	126.86	119.07
1	7K	96	MET	N-CA-C	6.96	120.02	108.96
1	7T	176	GLN	N-CA-C	6.96	120.99	111.39
1	92	13	GLN	OE1-CD-NE2	-6.96	115.64	122.60
1	as	96	MET	CA-C-N	6.96	131.25	120.75
1	as	96	MET	C-N-CA	6.96	131.25	120.75
1	aR	150	ILE	CA-C-O	6.96	128.00	119.58
1	bi	208	ALA	CA-C-N	6.96	132.62	120.87
1	bi	208	ALA	C-N-CA	6.96	132.62	120.87
1	bA	21	ASN	CA-CB-CG	-6.96	105.64	112.60
1	bF	221	VAL	O-C-N	-6.96	115.58	122.67
1	cE	74	ASN	CA-C-N	6.96	129.48	120.44
1	cE	74	ASN	C-N-CA	6.96	129.48	120.44
1	d3	104	ILE	N-CA-C	6.96	117.71	110.62
1	dr	104	ILE	N-CA-C	6.96	117.05	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dw	226	HIS	CE1-NE2-CD2	-6.96	102.05	109.00
1	dA	62	HIS	CB-CG-CD2	-6.96	122.16	131.20
1	eJ	93	PRO	N-CA-CB	6.96	109.81	103.20
1	eK	143	ARG	N-CA-C	6.96	118.86	111.28
1	1v	104	ILE	O-C-N	-6.96	115.12	121.87
1	fz	74	ASN	CA-C-O	6.96	128.12	120.82
1	g7	228	ALA	N-CA-C	6.96	122.12	109.32
1	i	207	PRO	N-CA-C	-6.96	104.88	114.27
1	C	131	LYS	N-CA-CB	-6.96	99.90	110.12
1	D	183	ASN	OD1-CG-ND2	-6.96	115.64	122.60
1	g9	213	GLU	N-CA-C	6.95	118.51	111.07
1	gh	100	ARG	CA-C-N	6.95	128.83	120.14
1	gh	100	ARG	C-N-CA	6.95	128.83	120.14
1	1E	47	ALA	O-C-N	-6.95	114.32	122.87
1	gQ	98	GLU	CB-CA-C	6.95	120.47	109.27
1	hg	165	VAL	CA-C-N	6.95	129.48	120.44
1	hg	165	VAL	C-N-CA	6.95	129.48	120.44
1	hG	100	ARG	CA-C-N	6.95	127.70	119.98
1	hG	100	ARG	C-N-CA	6.95	127.70	119.98
1	jm	120	HIS	CB-CG-ND1	-6.95	112.27	122.70
1	jp	126	VAL	O-C-N	-6.95	115.12	121.87
1	jD	82	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	ks	158	LYS	CA-C-O	-6.95	111.75	119.95
1	kC	98	GLU	N-CA-C	6.95	119.49	109.48
1	lm	55	MET	N-CA-CB	6.95	120.09	110.01
1	lI	120	HIS	ND1-CE1-NE2	6.95	115.35	108.40
1	2s	182	LYS	CA-C-N	6.95	129.60	120.28
1	2s	182	LYS	C-N-CA	6.95	129.60	120.28
1	34	26	VAL	CA-C-N	6.95	129.46	120.56
1	34	26	VAL	C-N-CA	6.95	129.46	120.56
1	3c	219	GLN	O-C-N	-6.95	115.29	123.22
1	3A	96	MET	N-CA-C	6.95	120.31	110.23
1	3B	22	ALA	CA-C-N	6.95	129.48	120.44
1	3B	22	ALA	C-N-CA	6.95	129.48	120.44
1	42	120	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
1	4n	76	GLU	CA-C-N	6.95	129.93	120.54
1	4n	76	GLU	C-N-CA	6.95	129.93	120.54
1	4u	28	GLU	N-CA-C	6.95	118.51	111.07
1	4B	166	ASP	CA-CB-CG	-6.95	105.65	112.60
1	5R	195	ASN	OD1-CG-ND2	-6.95	115.65	122.60
1	6n	147	PRO	O-C-N	6.95	132.03	122.64
1	6p	98	GLU	CA-C-N	6.95	127.37	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6p	98	GLU	C-N-CA	6.95	127.37	119.93
1	6x	220	GLY	CA-C-N	6.95	129.99	120.46
1	6x	220	GLY	C-N-CA	6.95	129.99	120.46
1	72	138	LEU	N-CA-C	6.95	119.45	111.11
1	7n	159	GLU	O-C-N	-6.95	117.26	121.71
1	7G	171	THR	CA-C-O	6.95	127.92	120.55
1	8E	180	GLU	CA-C-N	6.95	129.32	120.56
1	8E	180	GLU	C-N-CA	6.95	129.32	120.56
1	9O	182	LYS	CA-C-N	6.95	129.60	120.28
1	9O	182	LYS	C-N-CA	6.95	129.60	120.28
1	9S	123	PRO	CA-C-N	6.95	129.44	123.04
1	9S	123	PRO	C-N-CA	6.95	129.44	123.04
1	ae	117	TRP	CB-CA-C	-6.95	99.25	110.79
1	ao	178	SER	N-CA-C	6.95	120.31	110.50
1	12	7	GLN	O-C-N	-6.95	114.32	122.87
1	aQ	130	TYR	CA-C-N	6.95	129.60	120.28
1	aQ	130	TYR	C-N-CA	6.95	129.60	120.28
1	bd	156	GLY	CA-C-N	6.95	126.58	119.56
1	bd	156	GLY	C-N-CA	6.95	126.58	119.56
1	c3	52	LEU	CA-C-O	-6.95	113.46	120.90
1	cZ	47	ALA	N-CA-C	6.95	120.81	109.76
1	ds	63	GLN	CB-CA-C	-6.95	99.96	110.88
1	dw	209	ALA	N-CA-C	6.95	119.28	110.24
1	dB	169	TYR	N-CA-C	6.95	118.86	111.28
1	ep	154	ARG	N-CA-C	6.95	119.45	108.67
1	eC	52	LEU	N-CA-C	6.95	118.86	111.28
1	eP	24	VAL	O-C-N	6.95	128.72	121.91
1	eU	112	GLN	N-CA-C	6.95	118.86	111.28
1	f2	226	HIS	CA-C-N	6.95	130.70	120.90
1	f2	226	HIS	C-N-CA	6.95	130.70	120.90
1	f5	18	ARG	CA-C-N	6.95	129.60	120.28
1	f5	18	ARG	C-N-CA	6.95	129.60	120.28
1	fa	166	ASP	N-CA-CB	-6.95	99.87	110.16
1	fo	98	GLU	CA-C-O	-6.95	114.77	119.29
1	fY	144	MET	N-CA-CB	6.95	121.08	110.44
1	fY	163	ASP	N-CA-C	6.95	118.86	111.28
1	C	184	TRP	N-CA-C	6.95	118.86	111.28
1	Q	18	ARG	NE-CZ-NH2	-6.95	112.94	119.20
1	gh	220	GLY	O-C-N	-6.95	114.32	122.45
1	gA	125	PRO	CA-C-N	6.95	129.98	120.46
1	gA	125	PRO	C-N-CA	6.95	129.98	120.46
1	gM	114	GLN	N-CA-C	6.95	118.86	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	188	THR	N-CA-CB	6.95	122.24	110.49
1	hH	226	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
1	hV	109	SER	CA-C-N	6.95	131.85	120.94
1	hV	109	SER	C-N-CA	6.95	131.85	120.94
1	id	84	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
1	il	194	ALA	O-C-N	-6.95	113.34	122.59
1	1P	143	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	iK	85	PRO	CA-C-N	6.95	132.07	123.10
1	iK	85	PRO	C-N-CA	6.95	132.07	123.10
1	ju	63	GLN	N-CA-C	6.95	118.94	111.36
1	jL	132	ARG	CA-C-N	6.95	129.48	120.44
1	jL	132	ARG	C-N-CA	6.95	129.48	120.44
1	kp	98	GLU	N-CA-C	6.95	118.47	109.64
1	kt	139	ASN	CA-C-N	6.95	129.90	120.38
1	kt	139	ASN	C-N-CA	6.95	129.90	120.38
1	4s	184	TRP	CB-CG-CD2	-6.95	117.07	126.80
1	4A	92	GLU	N-CA-C	6.95	119.50	109.84
1	4J	80	TRP	CB-CG-CD2	-6.95	117.07	126.80
1	5l	124	ILE	CA-C-O	6.95	123.56	119.94
1	5q	146	SER	CA-C-N	6.95	128.53	119.84
1	5q	146	SER	C-N-CA	6.95	128.53	119.84
1	6l	73	ILE	N-CA-C	6.95	117.09	110.42
1	6J	62	HIS	CA-CB-CG	-6.95	106.85	113.80
1	7c	41	SER	N-CA-C	6.95	119.70	111.71
1	7I	97	ARG	CA-C-O	6.95	128.54	120.96
1	99	82	ARG	N-CA-CB	6.95	120.09	110.01
1	9U	136	LEU	CA-C-N	6.95	127.66	119.94
1	9U	136	LEU	C-N-CA	6.95	127.66	119.94
1	aS	212	GLU	CA-C-N	6.95	129.60	120.28
1	aS	212	GLU	C-N-CA	6.95	129.60	120.28
1	bH	5	ASN	CA-CB-CG	-6.95	105.65	112.60
1	cD	85	PRO	CA-C-N	6.95	131.53	121.80
1	cD	85	PRO	C-N-CA	6.95	131.53	121.80
1	cV	2	ILE	CB-CA-C	-6.95	102.11	111.15
1	ds	135	ILE	N-CA-C	6.95	117.74	110.72
1	1m	172	LEU	CA-C-N	6.95	130.16	120.29
1	1m	172	LEU	C-N-CA	6.95	130.16	120.29
1	eM	56	LEU	N-CA-C	6.95	118.86	111.28
1	eT	140	LYS	CA-C-N	6.95	129.98	120.46
1	eT	140	LYS	C-N-CA	6.95	129.98	120.46
1	eW	37	ILE	N-CA-CB	6.95	115.87	110.45
1	k	20	LEU	N-CA-C	6.95	118.51	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	82	ARG	NE-CZ-NH2	-6.95	112.94	119.20
1	gc	53	ASN	CA-CB-CG	-6.95	105.65	112.60
1	gC	183	ASN	CA-CB-CG	-6.95	105.65	112.60
1	gG	164	TYR	N-CA-C	6.95	118.51	111.07
1	h9	195	ASN	CA-CB-CG	6.95	119.55	112.60
1	hX	47	ALA	CA-C-O	-6.95	113.18	121.66
1	hY	141	ILE	O-C-N	-6.95	115.13	121.87
1	ic	114	GLN	O-C-N	6.95	129.23	122.07
1	ix	205	LEU	N-CA-C	6.95	118.86	111.28
1	iK	72	THR	CB-CA-C	-6.95	99.97	110.88
1	iP	212	GLU	N-CA-C	6.95	119.45	111.11
1	iV	98	GLU	O-C-N	-6.95	114.33	121.28
1	j7	221	VAL	N-CA-CB	6.95	120.70	111.25
1	jm	63	GLN	OE1-CD-NE2	6.95	129.55	122.60
1	jN	100	ARG	CA-C-O	-6.95	113.48	121.68
1	k9	3	VAL	CA-C-O	6.95	128.80	120.67
1	kv	122	PRO	N-CA-CB	-6.95	94.95	102.60
1	23	82	ARG	NE-CZ-NH2	-6.95	112.94	119.20
1	kF	165	VAL	N-CA-CB	-6.95	101.09	110.54
1	l7	148	THR	N-CA-CB	6.95	120.33	109.69
1	lw	103	ASP	N-CA-C	-6.95	103.14	111.69
1	lD	103	ASP	CA-C-N	6.95	130.33	120.53
1	lD	103	ASP	C-N-CA	6.95	130.33	120.53
1	2x	164	TYR	CA-C-N	6.95	129.57	120.60
1	2x	164	TYR	C-N-CA	6.95	129.57	120.60
1	3G	107	THR	CA-C-O	6.95	127.95	120.24
1	3R	22	ALA	N-CA-C	6.95	118.51	111.07
1	4h	106	GLY	O-C-N	-6.95	114.11	122.38
1	4s	110	THR	O-C-N	-6.95	115.33	123.25
1	4A	168	PHE	CA-C-N	6.95	129.59	120.28
1	4A	168	PHE	C-N-CA	6.95	129.59	120.28
1	5e	229	ARG	NE-CZ-NH2	6.95	125.45	119.20
1	5x	25	LYS	CA-C-N	6.95	129.57	120.60
1	5x	25	LYS	C-N-CA	6.95	129.57	120.60
1	5y	39	MET	CA-C-O	6.95	127.92	120.55
1	5y	120	HIS	CA-CB-CG	6.95	120.75	113.80
1	6K	195	ASN	CA-C-O	-6.95	110.64	120.16
1	6V	117	TRP	CA-C-N	6.95	129.90	120.38
1	6V	117	TRP	C-N-CA	6.95	129.90	120.38
1	7m	52	LEU	N-CA-CB	-6.95	99.87	110.16
1	7y	59	VAL	N-CA-C	6.95	117.66	110.36
1	7K	145	TYR	N-CA-C	-6.95	104.72	112.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8w	12	HIS	CA-CB-CG	-6.95	106.85	113.80
1	95	84	HIS	CA-C-N	6.95	128.53	119.84
1	95	84	HIS	C-N-CA	6.95	128.53	119.84
1	9c	22	ALA	CA-C-N	6.95	129.89	120.44
1	9c	22	ALA	C-N-CA	6.95	129.89	120.44
1	9e	12	HIS	CA-CB-CG	6.95	120.75	113.80
1	9t	48	THR	CA-C-O	-6.95	113.38	120.96
1	9W	228	ALA	O-C-N	-6.95	113.80	123.11
1	9Y	84	HIS	CB-CG-CD2	-6.95	122.17	131.20
1	a2	166	ASP	CA-CB-CG	6.95	119.55	112.60
1	a2	166	ASP	N-CA-C	6.95	118.86	111.28
1	aD	203	LYS	CA-C-N	6.95	129.48	120.44
1	aD	203	LYS	C-N-CA	6.95	129.48	120.44
1	aL	2	ILE	CA-C-N	6.95	131.34	122.37
1	aL	2	ILE	C-N-CA	6.95	131.34	122.37
1	b8	174	ALA	CA-C-O	6.95	127.93	119.31
1	cj	161	PHE	N-CA-C	6.95	118.65	111.14
1	cq	28	GLU	O-C-N	-6.95	114.91	122.07
1	cs	219	GLN	N-CA-C	6.95	120.04	110.24
1	cD	230	VAL	N-CA-C	-6.95	105.95	112.83
1	d4	217	ALA	N-CA-CB	6.95	121.36	110.87
1	do	114	GLN	CA-C-N	6.95	130.33	120.53
1	do	114	GLN	C-N-CA	6.95	130.33	120.53
1	dC	204	ALA	N-CA-CB	-6.95	99.88	110.16
1	eh	195	ASN	CA-CB-CG	6.95	119.55	112.60
1	el	37	ILE	CA-C-N	6.95	127.24	119.32
1	el	37	ILE	C-N-CA	6.95	127.24	119.32
1	f5	97	ARG	CD-NE-CZ	6.95	134.13	124.40
1	fu	78	ALA	N-CA-C	6.95	118.51	111.07
1	fL	188	THR	N-CA-C	6.95	121.65	112.13
1	fN	100	ARG	NE-CZ-NH2	-6.95	112.94	119.20
1	u	190	LEU	CA-C-O	6.95	128.06	120.90
1	h8	37	ILE	CA-C-O	-6.95	112.94	118.85
1	h9	98	GLU	CB-CG-CD	-6.95	100.79	112.60
1	1M	148	THR	O-C-N	-6.95	115.03	122.19
1	j6	181	VAL	N-CA-C	6.95	117.09	110.42
1	jj	8	GLY	CA-C-N	6.95	130.58	120.71
1	jj	8	GLY	C-N-CA	6.95	130.58	120.71
1	jA	192	GLN	N-CA-C	6.95	119.74	111.33
1	jV	123	PRO	O-C-N	-6.95	115.18	123.03
1	jY	150	ILE	N-CA-C	6.95	118.54	110.62
1	kz	53	ASN	OD1-CG-ND2	-6.95	115.65	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	40	PHE	CA-C-N	6.95	129.47	120.44
1	lC	40	PHE	C-N-CA	6.95	129.47	120.44
1	lG	139	ASN	CA-C-N	6.95	129.47	120.44
1	lG	139	ASN	C-N-CA	6.95	129.47	120.44
1	lH	81	ASP	O-C-N	-6.95	112.87	122.46
1	3y	160	PRO	CA-C-N	6.95	130.16	120.29
1	3y	160	PRO	C-N-CA	6.95	130.16	120.29
1	3C	67	GLN	CA-C-N	6.95	129.47	120.44
1	3C	67	GLN	C-N-CA	6.95	129.47	120.44
1	4G	58	THR	CA-CB-OG1	6.95	120.02	109.60
1	5q	133	TRP	CB-CG-CD2	-6.95	117.07	126.80
1	5A	98	GLU	CA-C-N	6.95	128.53	119.84
1	5A	98	GLU	C-N-CA	6.95	128.53	119.84
1	5I	180	GLU	N-CA-C	6.95	118.54	110.97
1	7x	103	ASP	N-CA-CB	6.95	120.09	110.01
1	7z	129	ILE	N-CA-CB	6.95	118.68	110.55
1	7z	212	GLU	CA-C-O	-6.95	113.52	120.82
1	7L	195	ASN	CA-C-N	6.95	126.76	119.05
1	7L	195	ASN	C-N-CA	6.95	126.76	119.05
1	7W	50	GLN	O-C-N	-6.95	114.09	122.22
1	8J	229	ARG	NE-CZ-NH2	-6.95	112.95	119.20
1	93	228	ALA	CA-C-O	-6.95	113.39	120.96
1	9S	162	ARG	NH1-CZ-NH2	-6.95	110.27	119.30
1	9U	164	TYR	N-CA-C	-6.95	102.92	111.40
1	9V	146	SER	N-CA-C	6.95	119.48	109.48
1	Z	130	TYR	O-C-N	-6.95	114.23	122.15
1	a2	27	VAL	CA-C-N	6.95	129.59	120.28
1	a2	27	VAL	C-N-CA	6.95	129.59	120.28
1	aj	123	PRO	CA-C-O	-6.95	113.75	121.32
1	am	115	ILE	N-CA-C	6.95	117.71	110.62
1	12	21	ASN	O-C-N	6.95	129.23	122.07
1	bx	207	PRO	CB-CA-C	6.95	120.39	111.56
1	bA	211	LEU	CA-C-N	6.95	129.92	120.54
1	bA	211	LEU	C-N-CA	6.95	129.92	120.54
1	bL	88	ALA	O-C-N	6.95	131.18	123.33
1	bS	226	HIS	CG-CD2-NE2	6.95	114.15	107.20
1	c9	159	GLU	CA-C-N	6.95	126.98	119.89
1	c9	159	GLU	C-N-CA	6.95	126.98	119.89
1	ck	56	LEU	O-C-N	-6.95	114.58	122.09
1	cC	179	GLN	CA-C-O	6.95	128.71	121.07
1	cM	18	ARG	CA-C-N	6.95	129.47	120.44
1	cM	18	ARG	C-N-CA	6.95	129.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d7	190	LEU	CA-C-N	6.95	129.31	120.56
1	d7	190	LEU	C-N-CA	6.95	129.31	120.56
1	1j	51	ASP	CB-CA-C	-6.95	99.25	110.79
1	1k	185	MET	N-CA-C	6.95	118.93	111.36
1	e9	120	HIS	CA-CB-CG	6.95	120.75	113.80
1	ed	22	ALA	CA-C-O	6.95	127.91	120.55
1	eO	134	ILE	N-CA-C	6.95	117.74	110.72
1	eT	172	LEU	CA-C-N	6.95	129.47	120.44
1	eT	172	LEU	C-N-CA	6.95	129.47	120.44
1	1x	84	HIS	ND1-CE1-NE2	6.95	115.35	108.40
1	fY	195	ASN	CA-CB-CG	6.95	119.55	112.60
1	fZ	173	ARG	N-CA-C	6.95	118.85	111.28
1	g0	156	GLY	CA-C-N	6.95	126.55	119.19
1	g0	156	GLY	C-N-CA	6.95	126.55	119.19
1	0	110	THR	N-CA-CB	6.95	120.30	110.36
1	c	112	GLN	N-CA-C	6.95	121.02	112.54
1	x	196	PRO	N-CA-C	6.95	124.10	113.75
1	gK	227	LYS	N-CA-CB	6.95	120.33	110.12
1	hF	100	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	iX	168	PHE	N-CA-C	6.95	118.50	111.07
1	22	210	THR	O-C-N	-6.95	115.11	122.96
1	ly	87	HIS	CA-C-O	-6.95	113.00	120.92
1	lH	202	LEU	N-CA-C	6.95	118.74	111.03
1	lN	221	VAL	O-C-N	6.95	129.15	122.20
1	2d	179	GLN	CA-C-N	6.95	129.59	120.28
1	2d	179	GLN	C-N-CA	6.95	129.59	120.28
1	2V	219	GLN	OE1-CD-NE2	-6.95	115.65	122.60
1	3O	185	MET	N-CA-CB	6.95	120.44	110.16
1	5u	168	PHE	CA-C-O	6.95	128.29	121.00
1	5Y	27	VAL	O-C-N	-6.95	113.95	121.80
1	6a	71	GLU	N-CA-C	6.95	118.85	111.28
1	73	41	SER	O-C-N	-6.95	114.86	122.09
1	8u	116	GLY	N-CA-C	6.95	121.05	112.64
1	9s	85	PRO	CB-CA-C	6.95	120.39	111.64
1	aI	176	GLN	CA-C-O	6.95	127.07	119.15
1	b7	68	MET	O-C-N	-6.95	114.92	122.07
1	dA	55	MET	N-CA-C	6.95	118.50	111.07
1	1o	52	LEU	CA-C-N	6.95	129.90	120.38
1	1o	52	LEU	C-N-CA	6.95	129.90	120.38
1	eu	82	ARG	CG-CD-NE	-6.95	96.72	112.00
1	fc	73	ILE	O-C-N	-6.95	114.67	121.83
1	fv	74	ASN	N-CA-C	6.95	118.85	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gr	167	ARG	CA-C-N	6.95	130.07	120.63
1	gr	167	ARG	C-N-CA	6.95	130.07	120.63
1	1E	73	ILE	N-CA-CB	6.95	119.46	110.57
1	h4	179	GLN	CA-C-N	6.95	129.59	120.28
1	h4	179	GLN	C-N-CA	6.95	129.59	120.28
1	1H	128	GLU	N-CA-CB	6.95	120.55	110.20
1	h7	16	SER	N-CA-C	6.95	118.54	109.93
1	hW	39	MET	N-CA-CB	6.95	120.33	110.12
1	i4	150	ILE	CA-C-N	6.95	129.59	120.28
1	i4	150	ILE	C-N-CA	6.95	129.59	120.28
1	i5	173	ARG	CA-C-N	6.95	129.88	120.44
1	i5	173	ARG	C-N-CA	6.95	129.88	120.44
1	j0	57	ASN	CA-C-O	6.95	127.48	119.35
1	jg	12	HIS	ND1-CE1-NE2	6.95	115.35	108.40
1	jr	223	GLY	CA-C-N	6.95	128.52	119.84
1	jr	223	GLY	C-N-CA	6.95	128.52	119.84
1	jM	133	TRP	O-C-N	-6.95	114.59	122.09
1	1Z	67	GLN	CA-C-O	6.95	127.91	120.55
1	kS	23	TRP	CB-CG-CD1	-6.95	116.48	126.90
1	l0	143	ARG	CD-NE-CZ	6.95	134.12	124.40
1	lo	191	VAL	N-CA-C	6.95	119.77	111.09
1	lF	24	VAL	CA-C-N	6.95	129.90	120.38
1	lF	24	VAL	C-N-CA	6.95	129.90	120.38
1	3g	16	SER	CA-C-N	6.95	126.55	119.19
1	3g	16	SER	C-N-CA	6.95	126.55	119.19
1	3P	54	THR	N-CA-C	6.95	118.85	111.28
1	55	143	ARG	O-C-N	-6.95	113.02	122.33
1	5p	71	GLU	N-CA-CB	6.95	120.08	110.01
1	67	136	LEU	CA-C-N	6.95	127.64	120.00
1	67	136	LEU	C-N-CA	6.95	127.64	120.00
1	6N	121	ASN	O-C-N	-6.95	112.56	121.10
1	6O	28	GLU	O-C-N	-6.95	114.87	122.09
1	75	125	PRO	CA-C-N	6.95	129.97	120.46
1	75	125	PRO	C-N-CA	6.95	129.97	120.46
1	7a	156	GLY	CA-C-N	6.95	127.24	119.32
1	7a	156	GLY	C-N-CA	6.95	127.24	119.32
1	7c	18	ARG	NE-CZ-NH1	6.95	128.45	121.50
1	7i	74	ASN	O-C-N	-6.95	114.76	122.12
1	7t	57	ASN	CA-C-O	6.95	127.47	119.35
1	8m	128	GLU	CA-C-N	6.95	129.31	120.56
1	8m	128	GLU	C-N-CA	6.95	129.31	120.56
1	8J	114	GLN	N-CA-C	6.95	118.85	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8V	30	LYS	CA-C-O	6.95	126.40	118.97
1	90	100	ARG	NE-CZ-NH1	6.95	128.44	121.50
1	9x	101	GLY	CA-C-O	-6.95	113.60	120.75
1	9P	36	VAL	N-CA-C	6.95	117.70	110.62
1	9W	21	ASN	CA-C-N	6.95	129.89	120.44
1	9W	21	ASN	C-N-CA	6.95	129.89	120.44
1	a0	5	ASN	CA-C-N	6.95	129.59	120.28
1	a0	5	ASN	C-N-CA	6.95	129.59	120.28
1	ah	40	PHE	CA-CB-CG	-6.95	106.85	113.80
1	aC	33	SER	O-C-N	-6.95	113.75	121.53
1	aO	203	LYS	CA-C-O	6.95	128.33	120.90
1	1a	32	PHE	CA-CB-CG	-6.95	106.86	113.80
1	co	210	THR	N-CA-C	6.95	119.80	110.35
1	cB	25	LYS	N-CA-C	6.95	118.50	111.07
1	1g	42	ALA	N-CA-C	6.95	118.85	111.28
1	d5	89	GLY	CA-C-N	6.95	126.76	119.05
1	d5	89	GLY	C-N-CA	6.95	126.76	119.05
1	1k	100	ARG	CA-C-N	6.95	128.82	120.14
1	1k	100	ARG	C-N-CA	6.95	128.82	120.14
1	dt	134	ILE	N-CA-CB	6.95	118.68	110.55
1	eS	184	TRP	CA-C-O	-6.95	113.53	120.82
1	fa	84	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
1	fe	188	THR	O-C-N	-6.95	114.76	122.12
1	fr	141	ILE	CA-C-N	6.95	129.56	120.60
1	fr	141	ILE	C-N-CA	6.95	129.56	120.60
1	gQ	129	ILE	N-CA-C	-6.94	103.54	110.62
1	ha	78	ALA	CA-C-N	6.94	129.59	120.28
1	ha	78	ALA	C-N-CA	6.94	129.59	120.28
1	i0	195	ASN	OD1-CG-ND2	-6.94	115.66	122.60
1	i1	179	GLN	CA-C-N	6.94	129.58	120.28
1	i1	179	GLN	C-N-CA	6.94	129.58	120.28
1	iS	183	ASN	OD1-CG-ND2	6.94	129.54	122.60
1	iW	185	MET	N-CA-C	6.94	118.85	111.28
1	jp	229	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	jU	12	HIS	CA-CB-CG	6.94	120.74	113.80
1	km	194	ALA	CA-C-N	6.94	130.35	120.49
1	km	194	ALA	C-N-CA	6.94	130.35	120.49
1	lK	172	LEU	N-CA-C	6.94	118.85	111.28
1	3W	166	ASP	CA-CB-CG	6.94	119.54	112.60
1	4v	215	MET	N-CA-C	6.94	119.69	111.71
1	5p	77	ALA	CA-C-O	-6.94	113.19	120.55
1	5w	62	HIS	ND1-CG-CD2	6.94	113.04	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	229	ARG	NE-CZ-NH2	-6.94	112.95	119.20
1	65	175	GLU	N-CA-C	6.94	119.79	110.35
1	6m	180	GLU	N-CA-C	6.94	118.85	111.28
1	6y	151	LEU	N-CA-C	6.94	119.44	111.11
1	7d	183	ASN	O-C-N	6.94	129.48	122.12
1	80	116	GLY	CA-C-N	6.94	129.47	120.44
1	80	116	GLY	C-N-CA	6.94	129.47	120.44
1	84	128	GLU	CA-C-N	6.94	129.31	120.56
1	84	128	GLU	C-N-CA	6.94	129.31	120.56
1	8J	212	GLU	O-C-N	-6.94	114.76	122.12
1	99	73	ILE	N-CA-C	-6.94	103.07	110.36
1	a9	59	VAL	O-C-N	-6.94	113.89	122.57
1	ao	16	SER	CA-C-N	6.94	126.92	119.28
1	ao	16	SER	C-N-CA	6.94	126.92	119.28
1	aR	131	LYS	CA-C-O	-6.94	113.19	120.55
1	aW	162	ARG	N-CA-C	6.94	119.73	111.33
1	bv	175	GLU	O-C-N	-6.94	114.62	122.75
1	ce	169	TYR	N-CA-C	6.94	118.93	111.36
1	cj	195	ASN	CA-C-N	6.94	128.52	119.84
1	cj	195	ASN	C-N-CA	6.94	128.52	119.84
1	d1	154	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	dd	193	ASN	CA-CB-CG	6.94	119.54	112.60
1	eY	12	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	fM	105	ALA	O-C-N	-6.94	111.30	122.41
1	i	212	GLU	CA-C-N	6.94	129.47	120.44
1	i	212	GLU	C-N-CA	6.94	129.47	120.44
1	k	124	ILE	N-CA-CB	6.94	118.91	111.20
1	o	218	CYS	N-CA-C	6.94	118.85	111.28
1	C	135	ILE	O-C-N	-6.94	114.68	121.83
1	W	15	ILE	O-C-N	-6.94	115.59	122.67
1	gw	103	ASP	CA-CB-CG	-6.94	105.66	112.60
1	gO	172	LEU	CA-C-N	6.94	130.15	120.29
1	gO	172	LEU	C-N-CA	6.94	130.15	120.29
1	hc	161	PHE	CA-C-N	6.94	129.58	120.28
1	hc	161	PHE	C-N-CA	6.94	129.58	120.28
1	hd	39	MET	CA-C-O	6.94	127.91	120.55
1	hi	164	TYR	N-CA-C	6.94	118.50	111.07
1	1J	139	ASN	OD1-CG-ND2	-6.94	115.66	122.60
1	hA	16	SER	O-C-N	-6.94	114.34	121.28
1	hK	65	ALA	N-CA-C	6.94	118.85	111.28
1	1P	37	ILE	CA-C-N	6.94	126.55	119.19
1	1P	37	ILE	C-N-CA	6.94	126.55	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	23	TRP	CA-C-N	6.94	129.97	120.46
1	it	23	TRP	C-N-CA	6.94	129.97	120.46
1	iu	57	ASN	CA-C-O	6.94	127.98	119.79
1	iy	120	HIS	CA-CB-CG	6.94	120.74	113.80
1	j6	93	PRO	CA-C-O	-6.94	113.52	121.36
1	jS	185	MET	O-C-N	6.94	129.48	122.12
1	k1	33	SER	CB-CA-C	-6.94	101.94	109.85
1	kr	226	HIS	N-CA-CB	-6.94	101.60	112.08
1	kt	89	GLY	CA-C-O	-6.94	115.73	122.46
1	kO	184	TRP	N-CA-C	6.94	118.50	111.07
1	l4	63	GLN	N-CA-C	6.94	118.85	111.28
1	l4	74	ASN	CA-C-O	6.94	127.91	120.55
1	lj	116	GLY	CA-C-N	6.94	129.91	120.54
1	lj	116	GLY	C-N-CA	6.94	129.91	120.54
1	lu	23	TRP	CA-C-N	6.94	129.31	120.56
1	lu	23	TRP	C-N-CA	6.94	129.31	120.56
1	2v	37	ILE	N-CA-C	6.94	120.68	112.35
1	2T	170	LYS	CB-CA-C	-6.94	99.05	110.85
1	3m	179	GLN	CA-C-N	6.94	129.46	120.44
1	3m	179	GLN	C-N-CA	6.94	129.46	120.44
1	3K	205	LEU	N-CA-C	6.94	119.44	111.11
1	4B	84	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	5d	18	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	5s	75	GLU	O-C-N	-6.94	114.92	122.07
1	5y	129	ILE	CA-C-N	6.94	129.58	120.28
1	5y	129	ILE	C-N-CA	6.94	129.58	120.28
1	5L	5	ASN	N-CA-C	-6.94	98.61	109.72
1	6i	182	LYS	CB-CA-C	6.94	121.78	110.88
1	6N	79	GLU	CA-C-N	6.94	129.58	120.28
1	6N	79	GLU	C-N-CA	6.94	129.58	120.28
1	6T	40	PHE	N-CA-C	6.94	119.44	111.11
1	7d	211	LEU	CA-C-O	6.94	127.91	120.55
1	7R	196	PRO	CA-C-N	6.94	132.23	121.19
1	7R	196	PRO	C-N-CA	6.94	132.23	121.19
1	9a	72	THR	N-CA-CB	6.94	120.05	109.91
1	9r	166	ASP	CA-CB-CG	6.94	119.54	112.60
1	9P	50	GLN	CA-C-N	6.94	129.58	120.28
1	9P	50	GLN	C-N-CA	6.94	129.58	120.28
1	a5	56	LEU	CA-C-N	6.94	130.86	120.31
1	a5	56	LEU	C-N-CA	6.94	130.86	120.31
1	12	198	CYS	CA-C-N	6.94	129.89	120.38
1	12	198	CYS	C-N-CA	6.94	129.89	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	155	GLN	O-C-N	-6.94	114.48	123.02
1	aV	212	GLU	N-CA-C	6.94	119.73	111.33
1	bS	98	GLU	O-C-N	-6.94	115.12	121.30
1	bX	146	SER	CA-C-O	-6.94	112.75	120.25
1	d2	173	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	dH	203	LYS	N-CA-CB	6.94	120.91	110.22
1	e7	162	ARG	N-CA-C	6.94	118.85	111.28
1	e8	26	VAL	CA-C-O	6.94	128.21	120.85
1	ed	82	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	1t	148	THR	N-CA-C	6.94	120.45	110.24
1	eX	161	PHE	CA-CB-CG	-6.94	106.86	113.80
1	fA	187	GLU	O-C-N	-6.94	114.34	122.32
1	fB	141	ILE	N-CA-CB	6.94	118.67	110.55
1	fC	175	GLU	N-CA-C	6.94	119.79	110.35
1	g3	100	ARG	O-C-N	-6.94	114.18	122.65
1	g4	123	PRO	CA-C-N	-6.94	116.65	123.04
1	g4	123	PRO	C-N-CA	-6.94	116.65	123.04
1	u	58	THR	CA-C-O	6.94	129.10	119.80
1	z	37	ILE	N-CA-CB	6.94	120.93	111.21
1	hF	34	PRO	CA-C-N	6.94	130.28	120.28
1	hF	34	PRO	C-N-CA	6.94	130.28	120.28
1	iJ	144	MET	O-C-N	6.94	129.48	122.12
1	iX	186	THR	O-C-N	-6.94	114.24	122.15
1	j2	195	ASN	O-C-N	-6.94	113.66	121.43
1	jK	184	TRP	CA-C-N	6.94	129.58	120.28
1	jK	184	TRP	C-N-CA	6.94	129.58	120.28
1	k3	27	VAL	N-CA-C	6.94	117.70	110.62
1	k3	126	VAL	N-CA-C	6.94	117.73	110.72
1	kb	159	GLU	N-CA-C	6.94	119.70	109.50
1	ku	160	PRO	O-C-N	-6.94	113.27	122.64
1	kL	142	VAL	CA-C-N	6.94	129.46	120.44
1	kL	142	VAL	C-N-CA	6.94	129.46	120.44
1	lb	130	TYR	O-C-N	-6.94	114.76	122.12
1	lz	109	SER	O-C-N	-6.94	115.08	123.27
1	2b	193	ASN	CA-CB-CG	-6.94	105.66	112.60
1	2n	154	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	2Y	24	VAL	N-CA-C	6.94	117.70	110.62
1	37	53	ASN	CA-C-N	6.94	129.58	120.28
1	37	53	ASN	C-N-CA	6.94	129.58	120.28
1	3b	190	LEU	O-C-N	-6.94	114.92	122.07
1	3i	52	LEU	N-CA-C	6.94	119.44	111.11
1	3P	62	HIS	CE1-NE2-CD2	-6.94	102.06	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Y	183	ASN	CA-C-N	6.94	129.46	120.44
1	3Y	183	ASN	C-N-CA	6.94	129.46	120.44
1	43	116	GLY	CA-C-N	6.94	129.46	120.44
1	43	116	GLY	C-N-CA	6.94	129.46	120.44
1	4G	206	GLY	O-C-N	-6.94	114.83	121.77
1	4Z	111	LEU	CA-C-O	-6.94	113.19	120.55
1	5g	53	ASN	CA-CB-CG	-6.94	105.66	112.60
1	5A	44	SER	N-CA-C	6.94	121.35	113.02
1	5P	103	ASP	CA-C-O	6.94	127.78	120.42
1	5Y	223	GLY	CA-C-N	6.94	128.52	119.84
1	5Y	223	GLY	C-N-CA	6.94	128.52	119.84
1	67	56	LEU	N-CA-C	6.94	118.50	111.07
1	6E	212	GLU	CA-C-N	6.94	129.58	120.28
1	6E	212	GLU	C-N-CA	6.94	129.58	120.28
1	6Y	32	PHE	CA-CB-CG	-6.94	106.86	113.80
1	7k	77	ALA	CA-C-N	6.94	129.58	120.28
1	7k	77	ALA	C-N-CA	6.94	129.58	120.28
1	80	133	TRP	CA-C-N	6.94	129.31	120.56
1	80	133	TRP	C-N-CA	6.94	129.31	120.56
1	8f	96	MET	N-CA-C	6.94	120.29	110.23
1	8l	33	SER	O-C-N	-6.94	115.83	121.80
1	8z	173	ARG	N-CA-C	6.94	118.84	111.28
1	9b	2	ILE	O-C-N	-6.94	115.68	123.18
1	9f	113	GLU	N-CA-C	6.94	118.50	111.07
1	9r	131	LYS	CA-C-O	-6.94	113.19	120.55
1	9x	24	VAL	N-CA-C	6.94	117.70	110.62
1	Z	141	ILE	CB-CA-C	-6.94	102.64	112.22
1	a8	22	ALA	O-C-N	-6.94	114.76	122.12
1	ak	74	ASN	CA-C-O	-6.94	113.19	120.55
1	aI	128	GLU	CA-C-O	6.94	128.33	120.90
1	aX	113	GLU	N-CA-C	6.94	119.73	111.33
1	ba	21	ASN	N-CA-C	6.94	118.93	111.36
1	be	221	VAL	N-CA-CB	6.94	118.47	110.49
1	bC	132	ARG	NE-CZ-NH2	-6.94	112.95	119.20
1	bO	226	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	bT	100	ARG	NH1-CZ-NH2	-6.94	110.28	119.30
1	c8	165	VAL	CA-C-N	6.94	129.46	120.44
1	c8	165	VAL	C-N-CA	6.94	129.46	120.44
1	cc	8	GLY	CA-C-O	6.94	128.29	121.28
1	co	132	ARG	CA-C-N	6.94	129.58	120.28
1	co	132	ARG	C-N-CA	6.94	129.58	120.28
1	cs	16	SER	N-CA-C	6.94	119.47	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cW	221	VAL	CA-C-O	6.94	128.55	120.71
1	dt	165	VAL	O-C-N	-6.94	115.00	121.94
1	du	162	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	dQ	57	ASN	CA-CB-CG	-6.94	105.66	112.60
1	dY	164	TYR	CB-CG-CD1	-6.94	110.39	120.80
1	dZ	25	LYS	N-CA-C	6.94	118.84	111.28
1	eo	141	ILE	CA-C-N	6.94	129.31	120.56
1	eo	141	ILE	C-N-CA	6.94	129.31	120.56
1	er	82	ARG	CA-C-N	6.94	129.58	120.28
1	er	82	ARG	C-N-CA	6.94	129.58	120.28
1	f6	140	LYS	O-C-N	6.94	129.22	122.07
1	f7	98	GLU	CA-C-N	6.94	127.33	119.83
1	f7	98	GLU	C-N-CA	6.94	127.33	119.83
1	fP	228	ALA	N-CA-C	6.94	120.29	110.50
1	m	118	MET	N-CA-C	6.94	119.69	111.71
1	B	97	ARG	N-CA-C	-6.94	98.17	108.79
1	J	88	ALA	N-CA-C	6.94	120.30	110.23
1	L	37	ILE	N-CA-CB	6.94	115.86	110.45
1	gk	49	PRO	CA-C-N	6.94	129.58	120.28
1	gk	49	PRO	C-N-CA	6.94	129.58	120.28
1	gm	180	GLU	O-C-N	-6.94	114.77	122.12
1	1H	11	VAL	O-C-N	-6.94	115.89	123.18
1	hG	124	ILE	N-CA-C	-6.94	99.82	107.73
1	hO	84	HIS	O-C-N	-6.94	115.16	121.34
1	1R	77	ALA	CA-C-N	6.94	129.91	120.54
1	1R	77	ALA	C-N-CA	6.94	129.91	120.54
1	jx	31	ALA	N-CA-C	6.94	120.74	111.30
1	jR	1	PRO	CA-N-CD	-6.94	102.28	112.00
1	k4	15	ILE	N-CA-C	6.94	119.62	109.63
1	kW	31	ALA	CA-C-O	-6.94	113.14	120.63
1	2E	106	GLY	N-CA-C	-6.94	105.65	115.43
1	30	170	LYS	CA-C-N	6.94	129.58	120.28
1	30	170	LYS	C-N-CA	6.94	129.58	120.28
1	3D	186	THR	N-CA-CB	6.94	120.43	110.16
1	43	186	THR	CA-C-N	6.94	129.58	120.28
1	43	186	THR	C-N-CA	6.94	129.58	120.28
1	49	128	GLU	CA-C-O	6.94	128.10	120.82
1	5u	120	HIS	CA-CB-CG	6.94	120.74	113.80
1	5S	226	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	8q	6	LEU	N-CA-CB	6.94	122.22	110.49
1	8A	74	ASN	CA-CB-CG	-6.94	105.66	112.60
1	9d	166	ASP	O-C-N	-6.94	114.92	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	30	LYS	N-CA-C	6.94	122.60	113.30
1	a2	186	THR	O-C-N	-6.94	113.03	122.33
1	af	88	ALA	N-CA-C	6.94	118.84	111.28
1	aB	26	VAL	CA-C-N	6.94	130.31	120.53
1	aB	26	VAL	C-N-CA	6.94	130.31	120.53
1	aJ	139	ASN	CA-C-N	6.94	129.91	120.54
1	aJ	139	ASN	C-N-CA	6.94	129.91	120.54
1	17	84	HIS	N-CA-C	6.94	121.18	108.69
1	eM	89	GLY	CA-C-N	6.94	127.35	119.93
1	eM	89	GLY	C-N-CA	6.94	127.35	119.93
1	eX	69	LEU	CA-C-N	6.94	129.58	120.28
1	eX	69	LEU	C-N-CA	6.94	129.58	120.28
1	j	126	VAL	CA-CB-CG2	6.94	122.20	110.40
1	s	210	THR	CA-CB-OG1	6.94	120.01	109.60
1	4	101	GLY	O-C-N	-6.94	115.53	122.19
1	ga	115	ILE	CA-C-N	6.94	127.64	119.94
1	ga	115	ILE	C-N-CA	6.94	127.64	119.94
1	gz	125	PRO	CA-C-N	6.94	134.46	121.97
1	gz	125	PRO	C-N-CA	6.94	134.46	121.97
1	gC	124	ILE	CA-C-O	-6.94	113.98	119.25
1	1L	84	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	i7	161	PHE	CA-CB-CG	6.94	120.74	113.80
1	iY	22	ALA	N-CA-C	6.94	118.84	111.28
1	1U	112	GLN	OE1-CD-NE2	-6.94	115.66	122.60
1	jx	190	LEU	CA-C-N	6.94	132.43	122.09
1	jx	190	LEU	C-N-CA	6.94	132.43	122.09
1	jD	52	LEU	N-CA-C	6.94	118.84	111.28
1	jF	8	GLY	CA-C-N	6.94	131.02	120.82
1	jF	8	GLY	C-N-CA	6.94	131.02	120.82
1	jK	179	GLN	N-CA-C	6.94	119.44	111.11
1	jL	65	ALA	CA-C-O	6.94	127.90	120.55
1	kp	12	HIS	CE1-NE2-CD2	-6.94	102.06	109.00
1	le	108	THR	O-C-N	-6.94	113.24	122.19
1	lf	181	VAL	CA-C-O	6.94	128.52	121.17
1	lk	48	THR	CA-C-N	6.94	126.19	118.97
1	lk	48	THR	C-N-CA	6.94	126.19	118.97
1	lp	67	GLN	O-C-N	-6.94	114.77	122.12
1	lI	36	VAL	N-CA-C	6.94	117.05	110.53
1	lL	106	GLY	CA-C-N	6.94	129.46	120.44
1	lL	106	GLY	C-N-CA	6.94	129.46	120.44
1	2n	174	ALA	N-CA-CB	-6.94	99.57	110.46
1	2K	179	GLN	CA-C-N	6.94	129.91	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2K	179	GLN	C-N-CA	6.94	129.91	120.54
1	2Z	23	TRP	N-CA-CB	-6.94	99.95	110.01
1	3n	186	THR	O-C-N	-6.94	114.92	122.07
1	3C	115	ILE	CA-C-N	6.94	127.68	119.98
1	3C	115	ILE	C-N-CA	6.94	127.68	119.98
1	3D	185	MET	N-CA-C	6.94	119.69	111.71
1	40	166	ASP	CA-CB-CG	6.94	119.54	112.60
1	4u	216	THR	CA-C-N	6.94	131.23	120.75
1	4u	216	THR	C-N-CA	6.94	131.23	120.75
1	5W	155	GLN	OE1-CD-NE2	-6.94	115.66	122.60
1	66	25	LYS	N-CA-C	6.94	118.84	111.28
1	6o	182	LYS	N-CA-C	6.94	118.92	111.36
1	6p	103	ASP	CA-C-N	6.94	129.30	120.56
1	6p	103	ASP	C-N-CA	6.94	129.30	120.56
1	6q	170	LYS	N-CA-C	6.94	118.63	111.14
1	7h	170	LYS	N-CA-C	6.94	119.69	111.71
1	7l	132	ARG	O-C-N	-6.94	114.88	122.09
1	8q	191	VAL	CA-C-N	6.94	130.27	120.28
1	8q	191	VAL	C-N-CA	6.94	130.27	120.28
1	8S	76	GLU	O-C-N	6.94	129.22	122.07
1	8S	143	ARG	N-CA-C	6.94	118.49	111.07
1	95	71	GLU	CA-C-N	6.94	129.46	120.44
1	95	71	GLU	C-N-CA	6.94	129.46	120.44
1	97	139	ASN	CA-C-O	-6.94	113.06	120.42
1	9t	188	THR	CA-CB-OG1	6.94	120.01	109.60
1	9O	32	PHE	CA-CB-CG	-6.94	106.86	113.80
1	9X	92	GLU	CA-C-O	-6.94	113.88	119.71
1	a2	106	GLY	CA-C-O	6.94	128.36	120.03
1	aa	31	ALA	O-C-N	-6.94	113.36	122.59
1	bd	73	ILE	CA-C-N	6.94	129.58	120.28
1	bd	73	ILE	C-N-CA	6.94	129.58	120.28
1	bH	104	ILE	N-CA-C	6.94	117.08	110.42
1	cG	211	LEU	CA-C-O	6.94	127.94	120.10
1	cS	11	VAL	N-CA-CB	6.94	118.72	110.95
1	dB	156	GLY	CA-C-N	6.94	127.52	119.47
1	dB	156	GLY	C-N-CA	6.94	127.52	119.47
1	eQ	33	SER	N-CA-CB	6.94	118.38	111.10
1	fZ	45	GLU	CA-C-N	6.94	133.29	120.87
1	fZ	45	GLU	C-N-CA	6.94	133.29	120.87
1	1B	95	GLN	CA-C-N	6.94	132.29	121.26
1	1B	95	GLN	C-N-CA	6.94	132.29	121.26
1	q	62	HIS	CB-CG-ND1	6.94	133.10	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	134	ILE	N-CA-C	6.94	117.08	110.42
1	gH	193	ASN	CA-CB-CG	6.94	119.54	112.60
1	hF	132	ARG	CA-C-N	6.94	129.88	120.38
1	hF	132	ARG	C-N-CA	6.94	129.88	120.38
1	ij	98	GLU	CA-C-N	6.94	126.92	119.78
1	ij	98	GLU	C-N-CA	6.94	126.92	119.78
1	iT	75	GLU	N-CA-C	6.94	118.84	111.28
1	j1	230	VAL	N-CA-C	6.94	117.86	107.80
1	jH	227	LYS	CA-C-N	6.94	130.72	120.87
1	jH	227	LYS	C-N-CA	6.94	130.72	120.87
1	jQ	103	ASP	CA-C-O	6.94	127.95	119.97
1	2x	133	TRP	CA-C-O	6.94	127.90	120.55
1	2C	161	PHE	O-C-N	-6.94	114.93	122.07
1	3l	74	ASN	OD1-CG-ND2	-6.94	115.66	122.60
1	4M	162	ARG	NE-CZ-NH1	6.94	128.44	121.50
1	4N	143	ARG	NE-CZ-NH2	-6.94	112.96	119.20
1	6d	163	ASP	CA-C-N	6.94	129.88	120.38
1	6d	163	ASP	C-N-CA	6.94	129.88	120.38
1	6j	71	GLU	CA-C-N	6.94	129.57	120.28
1	6j	71	GLU	C-N-CA	6.94	129.57	120.28
1	6U	145	TYR	N-CA-C	6.94	121.49	112.89
1	7D	56	LEU	CA-C-N	6.94	130.85	120.31
1	7D	56	LEU	C-N-CA	6.94	130.85	120.31
1	8m	184	TRP	O-C-N	-6.94	114.24	122.15
1	8O	219	GLN	CA-C-N	6.94	135.19	121.53
1	8O	219	GLN	C-N-CA	6.94	135.19	121.53
1	13	182	LYS	CA-C-N	6.94	129.46	120.44
1	13	182	LYS	C-N-CA	6.94	129.46	120.44
1	bf	37	ILE	CA-C-N	6.94	126.45	119.24
1	bf	37	ILE	C-N-CA	6.94	126.45	119.24
1	bx	205	LEU	N-CA-C	6.94	118.84	111.28
1	cf	204	ALA	CA-C-O	6.94	127.95	119.97
1	dc	66	MET	O-C-N	-6.94	114.93	122.07
1	dC	146	SER	O-C-N	-6.94	113.34	121.32
1	fW	161	PHE	N-CA-C	6.94	118.49	111.07
1	g0	133	TRP	CA-C-N	6.94	129.44	120.56
1	g0	133	TRP	C-N-CA	6.94	129.44	120.56
1	g7	223	GLY	CA-C-N	6.94	126.90	119.76
1	g7	223	GLY	C-N-CA	6.94	126.90	119.76
1	1D	120	HIS	CE1-NE2-CD2	-6.93	102.06	109.00
1	gI	138	LEU	O-C-N	-6.93	114.77	122.12
1	hb	158	LYS	O-C-N	-6.93	113.80	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hd	199	LYS	CA-C-O	6.93	128.10	120.82
1	he	221	VAL	N-CA-C	-6.93	98.31	108.23
1	hs	119	THR	CA-CB-OG1	6.93	120.00	109.60
1	hO	214	MET	CA-C-O	6.93	127.94	120.10
1	hU	20	LEU	CA-C-O	6.93	127.77	120.42
1	i3	14	ALA	N-CA-C	6.93	125.57	110.80
1	id	213	GLU	N-CA-C	6.93	119.48	111.02
1	ig	127	GLY	O-C-N	-6.93	115.53	122.19
1	iK	180	GLU	N-CA-C	6.93	118.84	111.28
1	iV	136	LEU	CA-C-N	6.93	127.63	120.00
1	iV	136	LEU	C-N-CA	6.93	127.63	120.00
1	js	176	GLN	CA-C-N	6.93	131.64	121.31
1	js	176	GLN	C-N-CA	6.93	131.64	121.31
1	jJ	197	ASP	CA-C-O	6.93	128.10	120.82
1	2A	12	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	2G	174	ALA	N-CA-CB	-6.93	99.90	110.16
1	2R	133	TRP	O-C-N	-6.93	114.77	122.12
1	3B	122	PRO	CA-C-N	6.93	126.96	119.89
1	3B	122	PRO	C-N-CA	6.93	126.96	119.89
1	3Y	211	LEU	CA-C-N	6.93	129.90	120.54
1	3Y	211	LEU	C-N-CA	6.93	129.90	120.54
1	3Z	134	ILE	CA-C-N	6.93	129.96	120.46
1	3Z	134	ILE	C-N-CA	6.93	129.96	120.46
1	56	225	GLY	N-CA-C	6.93	119.47	111.36
1	57	127	GLY	CA-C-N	6.93	129.90	120.54
1	57	127	GLY	C-N-CA	6.93	129.90	120.54
1	5Y	57	ASN	O-C-N	-6.93	113.67	122.34
1	5Z	34	PRO	N-CA-CB	6.93	109.79	103.20
1	7d	62	HIS	CB-CA-C	-6.93	102.57	111.86
1	7f	143	ARG	NE-CZ-NH2	-6.93	112.96	119.20
1	7g	47	ALA	CA-C-O	6.93	128.96	121.05
1	8A	71	GLU	CA-C-N	6.93	129.90	120.54
1	8A	71	GLU	C-N-CA	6.93	129.90	120.54
1	9b	136	LEU	N-CA-C	6.93	118.84	111.28
1	9i	36	VAL	N-CA-C	6.93	117.69	110.62
1	9G	98	GLU	CA-C-O	6.93	126.84	120.60
1	a6	68	MET	CA-C-O	6.93	127.43	119.18
1	as	104	ILE	O-C-N	6.93	128.60	121.87
1	at	75	GLU	CA-C-N	6.93	129.46	120.44
1	at	75	GLU	C-N-CA	6.93	129.46	120.44
1	12	76	GLU	CA-C-N	6.93	129.46	120.44
1	12	76	GLU	C-N-CA	6.93	129.46	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aw	167	ARG	NE-CZ-NH2	-6.93	112.96	119.20
1	15	152	ASP	CA-C-N	6.93	131.31	122.37
1	15	152	ASP	C-N-CA	6.93	131.31	122.37
1	b4	46	GLY	CA-C-N	6.93	131.28	121.02
1	b4	46	GLY	C-N-CA	6.93	131.28	121.02
1	bE	18	ARG	N-CA-CB	6.93	121.03	110.28
1	cr	21	ASN	CA-CB-CG	-6.93	105.67	112.60
1	cD	30	LYS	CA-C-N	6.93	133.32	122.78
1	cD	30	LYS	C-N-CA	6.93	133.32	122.78
1	cL	203	LYS	O-C-N	-6.93	114.25	122.15
1	dC	38	PRO	CA-C-N	6.93	129.90	120.54
1	dC	38	PRO	C-N-CA	6.93	129.90	120.54
1	1p	132	ARG	N-CA-C	6.93	118.84	111.28
1	fp	84	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	1y	114	GLN	N-CA-C	6.93	118.84	111.28
1	g7	97	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	1	33	SER	O-C-N	-6.93	113.21	121.39
1	O	84	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	gb	132	ARG	CA-C-N	6.93	129.57	120.28
1	gb	132	ARG	C-N-CA	6.93	129.57	120.28
1	1C	7	GLN	CA-C-O	6.93	128.19	120.43
1	gL	88	ALA	N-CA-C	6.93	119.25	110.24
1	gL	198	CYS	CA-C-N	6.93	129.45	120.44
1	gL	198	CYS	C-N-CA	6.93	129.45	120.44
1	h3	229	ARG	NE-CZ-NH2	-6.93	112.96	119.20
1	ho	167	ARG	NE-CZ-NH2	6.93	125.44	119.20
1	iu	107	THR	N-CA-C	6.93	118.49	111.07
1	iB	77	ALA	CA-C-O	6.93	128.10	120.82
1	1S	179	GLN	CA-C-O	-6.93	113.07	120.42
1	j0	124	ILE	N-CA-C	-6.93	100.00	107.77
1	j3	27	VAL	CA-C-N	6.93	129.57	120.28
1	j3	27	VAL	C-N-CA	6.93	129.57	120.28
1	jS	58	THR	N-CA-C	6.93	119.68	111.71
1	ki	141	ILE	O-C-N	-6.93	115.14	121.87
1	kv	84	HIS	CA-C-O	-6.93	110.81	119.54
1	kR	230	VAL	N-CA-C	6.93	118.04	110.21
1	l2	201	ILE	O-C-N	-6.93	114.69	121.83
1	ly	24	VAL	N-CA-CB	6.93	118.66	110.55
1	lz	82	ARG	CA-C-O	6.93	127.77	120.42
1	lI	212	GLU	CA-C-N	6.93	129.57	120.28
1	lI	212	GLU	C-N-CA	6.93	129.57	120.28
1	2o	78	ALA	CA-C-N	6.93	129.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	78	ALA	C-N-CA	6.93	129.57	120.28
1	3L	126	VAL	N-CA-C	6.93	117.69	110.62
1	3W	39	MET	CA-C-N	6.93	129.57	120.28
1	3W	39	MET	C-N-CA	6.93	129.57	120.28
1	47	39	MET	N-CA-C	6.93	122.74	111.37
1	5x	73	ILE	O-C-N	-6.93	115.15	121.87
1	6e	169	TYR	CA-C-N	6.93	129.45	120.44
1	6e	169	TYR	C-N-CA	6.93	129.45	120.44
1	6u	76	GLU	N-CA-CB	6.93	120.31	110.12
1	6P	161	PHE	CA-C-N	6.93	130.50	120.38
1	6P	161	PHE	C-N-CA	6.93	130.50	120.38
1	78	193	ASN	CA-C-N	6.93	131.82	120.94
1	78	193	ASN	C-N-CA	6.93	131.82	120.94
1	7u	117	TRP	O-C-N	-6.93	114.88	122.09
1	7A	221	VAL	O-C-N	-6.93	115.71	123.20
1	7C	80	TRP	CZ3-CH2-CZ2	-6.93	112.49	121.50
1	86	128	GLU	O-C-N	-6.93	114.93	122.07
1	8b	116	GLY	O-C-N	-6.93	115.44	122.17
1	8m	27	VAL	CA-C-N	6.93	130.13	120.29
1	8m	27	VAL	C-N-CA	6.93	130.13	120.29
1	8I	5	ASN	OD1-CG-ND2	-6.93	115.67	122.60
1	8N	226	HIS	CA-C-O	-6.93	113.50	121.47
1	8U	208	ALA	CA-C-N	6.93	130.66	120.95
1	8U	208	ALA	C-N-CA	6.93	130.66	120.95
1	99	64	ALA	N-CA-C	6.93	118.49	111.07
1	9B	4	GLN	N-CA-CB	6.93	122.21	110.49
1	9K	130	TYR	N-CA-C	6.93	118.92	111.36
1	9O	40	PHE	N-CA-C	6.93	119.72	111.33
1	ab	51	ASP	CB-CA-C	-6.93	99.28	110.79
1	ai	82	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	11	55	MET	N-CA-C	6.93	118.49	111.07
1	aG	101	GLY	CA-C-O	-6.93	114.00	120.80
1	aY	189	LEU	N-CA-C	6.93	119.72	111.33
1	b3	81	ASP	CA-C-O	6.93	127.94	119.97
1	cc	57	ASN	N-CA-C	6.93	118.83	111.28
1	cf	28	GLU	CB-CG-CD	-6.93	100.81	112.60
1	ck	134	ILE	O-C-N	-6.93	114.69	121.83
1	cD	201	ILE	N-CA-C	-6.93	102.58	112.35
1	dg	57	ASN	OD1-CG-ND2	6.93	129.53	122.60
1	do	171	THR	CA-C-N	6.93	132.30	120.72
1	do	171	THR	C-N-CA	6.93	132.30	120.72
1	dr	195	ASN	CA-C-O	-6.93	113.89	119.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	du	144	MET	O-C-N	-6.93	114.77	122.12
1	dC	33	SER	CA-C-N	6.93	128.51	119.84
1	dC	33	SER	C-N-CA	6.93	128.51	119.84
1	dY	51	ASP	CA-C-N	6.93	129.57	120.28
1	dY	51	ASP	C-N-CA	6.93	129.57	120.28
1	e7	29	GLU	N-CA-CB	-6.93	101.68	110.90
1	f0	16	SER	CA-C-N	6.93	126.54	119.19
1	f0	16	SER	C-N-CA	6.93	126.54	119.19
1	fe	196	PRO	N-CA-C	6.93	126.75	112.47
1	fi	137	GLY	O-C-N	-6.93	114.72	122.28
1	fL	192	GLN	N-CA-C	6.93	121.74	113.28
1	f	152	ASP	N-CA-CB	-6.93	100.46	110.65
1	z	136	LEU	CA-C-O	6.93	128.10	120.82
1	M	75	GLU	CA-C-O	6.93	128.10	120.82
1	N	204	ALA	CA-C-N	6.93	129.45	120.44
1	N	204	ALA	C-N-CA	6.93	129.45	120.44
1	S	11	VAL	O-C-N	-6.93	114.69	121.83
1	gs	15	ILE	O-C-N	-6.93	115.24	122.66
1	gC	117	TRP	CB-CG-CD1	-6.93	116.50	126.90
1	h3	91	ILE	O-C-N	-6.93	115.58	123.00
1	hT	167	ARG	CA-C-N	6.93	129.45	120.44
1	hT	167	ARG	C-N-CA	6.93	129.45	120.44
1	i1	4	GLN	N-CA-CB	6.93	122.20	110.49
1	i5	167	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	id	167	ARG	NH1-CZ-NH2	-6.93	110.29	119.30
1	jl	182	LYS	O-C-N	-6.93	114.11	122.22
1	jO	171	THR	N-CA-CB	6.93	120.42	110.16
1	kV	228	ALA	CA-C-O	6.93	127.98	119.11
1	lj	63	GLN	N-CA-C	6.93	121.00	112.54
1	lq	154	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	3O	55	MET	N-CA-C	6.93	118.49	111.07
1	3S	74	ASN	OD1-CG-ND2	-6.93	115.67	122.60
1	5v	85	PRO	N-CA-C	6.93	122.10	111.15
1	65	139	ASN	CA-C-N	6.93	129.90	120.54
1	65	139	ASN	C-N-CA	6.93	129.90	120.54
1	6s	134	ILE	CA-C-N	6.93	129.29	120.56
1	6s	134	ILE	C-N-CA	6.93	129.29	120.56
1	6E	115	ILE	CA-C-O	6.93	127.99	120.57
1	6N	156	GLY	O-C-N	-6.93	114.84	121.77
1	7t	25	LYS	N-CA-C	6.93	118.83	111.28
1	8f	26	VAL	N-CA-C	6.93	117.69	110.62
1	8o	50	GLN	CA-C-O	6.93	127.90	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9f	162	ARG	O-C-N	-6.93	113.22	122.23
1	1e	18	ARG	NE-CZ-NH2	6.93	125.44	119.20
1	cA	75	GLU	CA-C-N	6.93	129.57	120.28
1	cA	75	GLU	C-N-CA	6.93	129.57	120.28
1	cT	30	LYS	N-CA-C	6.93	121.90	113.17
1	dn	143	ARG	NE-CZ-NH2	6.93	125.44	119.20
1	1o	111	LEU	O-C-N	-6.93	114.77	122.12
1	eb	188	THR	CA-C-O	-6.93	110.60	120.51
1	eu	42	ALA	N-CA-CB	-6.93	99.93	110.12
1	1s	44	SER	N-CA-C	-6.93	104.39	112.92
1	eI	63	GLN	N-CA-C	6.93	118.92	111.36
1	f6	195	ASN	O-C-N	-6.93	113.67	121.43
1	f7	62	HIS	ND1-CG-CD2	6.93	113.03	106.10
1	5	177	ALA	CA-C-N	6.93	133.69	122.81
1	5	177	ALA	C-N-CA	6.93	133.69	122.81
1	9	13	GLN	CG-CD-OE1	-6.93	106.94	120.80
1	gt	126	VAL	N-CA-C	6.93	117.69	110.62
1	gC	4	GLN	N-CA-CB	6.93	122.20	110.49
1	gX	156	GLY	O-C-N	-6.93	114.84	121.77
1	hj	5	ASN	CA-CB-CG	6.93	119.53	112.60
1	hB	183	ASN	N-CA-C	6.93	118.48	111.07
1	1M	37	ILE	CA-C-O	-6.93	113.44	118.71
1	i6	63	GLN	N-CA-C	6.93	118.62	111.14
1	iM	89	GLY	N-CA-C	6.93	120.31	112.00
1	1W	111	LEU	CA-C-O	-6.93	113.20	120.55
1	jz	227	LYS	O-C-N	-6.93	113.81	122.19
1	ky	112	GLN	N-CA-C	6.93	119.71	111.33
1	kz	223	GLY	CA-C-N	6.93	126.90	119.76
1	kz	223	GLY	C-N-CA	6.93	126.90	119.76
1	kZ	2	ILE	N-CA-CB	-6.93	101.00	110.56
1	l3	77	ALA	N-CA-C	6.93	119.86	111.82
1	2j	75	GLU	CA-C-N	6.93	129.57	120.28
1	2j	75	GLU	C-N-CA	6.93	129.57	120.28
1	2p	26	VAL	N-CA-C	6.93	117.69	110.62
1	2K	175	GLU	N-CA-C	6.93	118.83	111.28
1	31	78	ALA	CB-CA-C	6.93	122.63	110.85
1	3k	117	TRP	O-C-N	-6.93	114.78	122.12
1	3V	184	TRP	N-CA-CB	-6.93	99.91	110.16
1	4a	87	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	4k	169	TYR	CA-C-O	-6.93	112.44	120.20
1	4o	111	LEU	N-CA-C	6.93	118.83	111.28
1	4R	63	GLN	N-CA-C	6.93	118.48	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	37	ILE	CA-C-O	-6.93	114.05	118.69
1	6R	37	ILE	O-C-N	-6.93	115.99	120.42
1	74	192	GLN	CB-CA-C	-6.93	97.37	110.67
1	7j	161	PHE	N-CA-C	6.93	118.48	111.07
1	7X	178	SER	CA-C-N	6.93	129.87	120.38
1	7X	178	SER	C-N-CA	6.93	129.87	120.38
1	8k	139	ASN	OD1-CG-ND2	-6.93	115.67	122.60
1	8n	171	THR	CA-C-N	6.93	129.57	120.28
1	8n	171	THR	C-N-CA	6.93	129.57	120.28
1	8F	230	VAL	CA-C-O	6.93	129.22	120.97
1	9h	229	ARG	N-CA-C	6.93	120.54	110.28
1	9z	141	ILE	CB-CA-C	-6.93	102.78	112.14
1	9Z	48	THR	CA-C-N	6.93	128.50	119.84
1	9Z	48	THR	C-N-CA	6.93	128.50	119.84
1	a4	33	SER	CA-C-O	-6.93	112.84	119.91
1	a8	202	LEU	N-CA-C	6.93	119.86	111.82
1	ah	82	ARG	NE-CZ-NH2	-6.93	112.96	119.20
1	bv	169	TYR	CB-CG-CD1	-6.93	110.41	120.80
1	bS	208	ALA	O-C-N	-6.93	113.83	122.35
1	c3	198	CYS	CA-C-N	6.93	129.87	120.38
1	c3	198	CYS	C-N-CA	6.93	129.87	120.38
1	cG	82	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	cI	214	MET	N-CA-C	6.93	119.86	111.82
1	cZ	115	ILE	CA-C-N	6.93	127.82	119.99
1	cZ	115	ILE	C-N-CA	6.93	127.82	119.99
1	d8	82	ARG	N-CA-C	6.93	118.83	111.28
1	d9	102	SER	CA-C-N	6.93	130.13	120.29
1	d9	102	SER	C-N-CA	6.93	130.13	120.29
1	e5	102	SER	N-CA-C	6.93	118.83	111.28
1	ea	12	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	ef	197	ASP	CA-CB-CG	-6.93	105.67	112.60
1	eD	95	GLN	N-CA-C	6.93	120.01	110.24
1	1y	7	GLN	N-CA-C	-6.93	98.11	108.99
1	9	110	THR	O-C-N	-6.93	114.13	122.65
1	gf	109	SER	N-CA-C	6.93	120.84	109.06
1	gz	42	ALA	CA-C-N	6.93	130.26	120.28
1	gz	42	ALA	C-N-CA	6.93	130.26	120.28
1	hC	26	VAL	N-CA-C	6.93	117.44	110.23
1	ie	195	ASN	CA-C-O	-6.93	113.15	120.70
1	iX	120	HIS	CG-CD2-NE2	6.93	114.13	107.20
1	j9	91	ILE	CA-C-N	6.93	131.21	120.68
1	j9	91	ILE	C-N-CA	6.93	131.21	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	145	TYR	CA-C-O	6.93	128.01	120.32
1	jc	204	ALA	CA-C-N	6.93	130.84	120.31
1	jc	204	ALA	C-N-CA	6.93	130.84	120.31
1	k6	193	ASN	OD1-CG-ND2	-6.93	115.67	122.60
1	kR	87	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	lL	206	GLY	CA-C-N	6.93	126.63	119.56
1	lL	206	GLY	C-N-CA	6.93	126.63	119.56
1	3X	37	ILE	O-C-N	-6.93	115.99	120.42
1	53	112	GLN	OE1-CD-NE2	-6.93	115.67	122.60
1	60	135	ILE	CA-CB-CG2	6.93	122.28	110.50
1	7Z	130	TYR	CA-C-N	6.93	129.89	120.54
1	7Z	130	TYR	C-N-CA	6.93	129.89	120.54
1	8n	193	ASN	OD1-CG-ND2	-6.93	115.67	122.60
1	8q	162	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	9a	91	ILE	N-CA-CB	-6.93	103.32	112.26
1	ax	68	MET	N-CA-C	6.93	118.83	111.28
1	aY	113	GLU	CA-C-O	6.93	127.89	120.55
1	b5	189	LEU	N-CA-C	6.93	118.48	111.07
1	bq	193	ASN	CA-CB-CG	-6.93	105.67	112.60
1	bs	2	ILE	CA-C-N	6.93	132.53	122.69
1	bs	2	ILE	C-N-CA	6.93	132.53	122.69
1	bY	60	GLY	CA-C-N	6.93	131.45	121.54
1	bY	60	GLY	C-N-CA	6.93	131.45	121.54
1	c9	210	THR	N-CA-C	6.93	119.50	110.43
1	cd	100	ARG	NH1-CZ-NH2	-6.93	110.29	119.30
1	di	50	GLN	CA-C-N	6.93	129.86	120.44
1	di	50	GLN	C-N-CA	6.93	129.86	120.44
1	f4	122	PRO	CA-C-N	6.93	127.31	119.83
1	f4	122	PRO	C-N-CA	6.93	127.31	119.83
1	fD	95	GLN	CB-CG-CD	-6.93	100.82	112.60
1	gu	180	GLU	N-CA-C	6.93	118.83	111.28
1	h2	21	ASN	CA-C-N	6.93	129.56	120.28
1	h2	21	ASN	C-N-CA	6.93	129.56	120.28
1	io	36	VAL	O-C-N	-6.93	115.15	121.87
1	iG	2	ILE	O-C-N	-6.93	114.80	122.83
1	j7	229	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	jj	131	LYS	O-C-N	-6.93	114.78	122.12
1	jl	124	ILE	CA-C-O	-6.93	114.14	119.20
1	ju	183	ASN	CA-CB-CG	-6.93	105.67	112.60
1	jZ	100	ARG	NE-CZ-NH2	-6.93	112.97	119.20
1	k8	42	ALA	N-CA-CB	-6.93	98.89	110.39
1	kf	154	ARG	NH1-CZ-NH2	-6.93	110.30	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	211	LEU	CA-C-N	6.93	129.56	120.28
1	kq	211	LEU	C-N-CA	6.93	129.56	120.28
1	kX	79	GLU	O-C-N	-6.93	114.78	122.12
1	lj	120	HIS	CB-CG-CD2	-6.93	122.20	131.20
1	lt	21	ASN	OD1-CG-ND2	6.93	129.53	122.60
1	lB	153	ILE	CB-CA-C	-6.93	102.14	111.15
1	lM	117	TRP	O-C-N	-6.93	113.75	122.27
1	2j	132	ARG	CA-C-N	6.93	129.56	120.28
1	2j	132	ARG	C-N-CA	6.93	129.56	120.28
1	2H	140	LYS	CA-C-O	6.93	127.89	120.55
1	2Z	189	LEU	N-CA-C	6.93	118.83	111.28
1	44	218	CYS	CB-CA-C	-6.93	102.70	111.22
1	4g	150	ILE	CA-C-O	6.93	127.96	119.58
1	5j	204	ALA	N-CA-C	6.93	118.91	111.36
1	5m	72	THR	N-CA-C	6.93	118.83	111.28
1	5K	120	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	66	226	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	6b	183	ASN	O-C-N	-6.93	114.78	122.12
1	6o	181	VAL	CA-C-N	6.93	130.12	120.29
1	6o	181	VAL	C-N-CA	6.93	130.12	120.29
1	7c	165	VAL	CA-C-O	6.93	128.74	121.05
1	7e	143	ARG	O-C-N	-6.93	114.78	122.12
1	7h	87	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	7h	155	GLN	OE1-CD-NE2	-6.93	115.67	122.60
1	7j	226	HIS	N-CA-C	6.93	120.28	110.23
1	7Y	221	VAL	CA-C-O	6.93	125.21	118.98
1	82	120	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	8l	128	GLU	CA-C-N	6.93	129.29	120.56
1	8l	128	GLU	C-N-CA	6.93	129.29	120.56
1	8r	201	ILE	N-CA-C	6.93	117.68	110.62
1	8u	171	THR	O-C-N	-6.93	113.79	122.17
1	9H	89	GLY	O-C-N	-6.93	114.84	121.77
1	a2	148	THR	N-CA-C	6.93	119.90	110.55
1	av	177	ALA	CA-C-N	6.93	131.21	120.75
1	av	177	ALA	C-N-CA	6.93	131.21	120.75
1	aK	125	PRO	N-CA-CB	6.93	109.42	103.19
1	aQ	226	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
1	19	26	VAL	N-CA-C	6.93	117.63	110.36
1	19	174	ALA	N-CA-C	6.93	118.48	111.07
1	bP	42	ALA	N-CA-C	6.93	118.83	111.28
1	bU	84	HIS	CA-C-N	6.93	126.95	119.89
1	bU	84	HIS	C-N-CA	6.93	126.95	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bW	149	SER	CA-C-N	6.93	132.43	120.86
1	bW	149	SER	C-N-CA	6.93	132.43	120.86
1	c5	131	LYS	CA-C-N	6.93	129.44	120.44
1	c5	131	LYS	C-N-CA	6.93	129.44	120.44
1	c7	73	ILE	N-CA-C	6.93	117.69	110.62
1	co	62	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	cq	202	LEU	CA-C-N	6.93	129.45	120.44
1	cq	202	LEU	C-N-CA	6.93	129.45	120.44
1	cz	75	GLU	N-CA-C	6.93	118.83	111.28
1	db	126	VAL	CA-C-N	6.93	127.63	119.94
1	db	126	VAL	C-N-CA	6.93	127.63	119.94
1	1k	70	LYS	N-CA-C	6.93	118.48	111.07
1	dY	173	ARG	NE-CZ-NH1	6.93	128.43	121.50
1	eG	187	GLU	CA-C-N	6.93	130.25	120.28
1	eG	187	GLU	C-N-CA	6.93	130.25	120.28
1	eQ	141	ILE	CA-C-N	6.93	129.29	120.56
1	eQ	141	ILE	C-N-CA	6.93	129.29	120.56
1	f7	167	ARG	CA-C-O	6.93	127.89	120.55
1	fs	167	ARG	N-CA-C	6.93	119.42	111.11
1	1y	120	HIS	ND1-CE1-NE2	6.93	115.33	108.40
1	g1	29	GLU	N-CA-C	6.93	118.62	111.14
1	f	102	SER	N-CA-C	6.93	118.83	111.28
1	Q	11	VAL	O-C-N	-6.93	115.26	122.95
1	V	82	ARG	N-CA-C	6.93	119.71	111.33
1	g9	184	TRP	O-C-N	-6.92	114.94	122.07
1	1F	183	ASN	CA-CB-CG	-6.92	105.67	112.60
1	h1	120	HIS	CA-CB-CG	6.92	120.72	113.80
1	h3	126	VAL	O-C-N	-6.92	114.70	121.83
1	hl	172	LEU	CA-C-N	6.92	130.25	120.28
1	hl	172	LEU	C-N-CA	6.92	130.25	120.28
1	hv	75	GLU	N-CA-C	6.92	118.91	111.36
1	1K	195	ASN	O-C-N	-6.92	113.91	121.53
1	hV	167	ARG	N-CA-C	6.92	119.42	111.11
1	i8	150	ILE	N-CA-C	6.92	120.73	111.17
1	iK	212	GLU	N-CA-C	6.92	118.83	111.28
1	iN	102	SER	O-C-N	-6.92	113.75	122.27
1	js	178	SER	CA-C-N	6.92	131.21	120.82
1	js	178	SER	C-N-CA	6.92	131.21	120.82
1	ju	179	GLN	CA-C-N	6.92	130.84	120.31
1	ju	179	GLN	C-N-CA	6.92	130.84	120.31
1	jE	198	CYS	CA-C-N	6.92	129.44	120.44
1	jE	198	CYS	C-N-CA	6.92	129.44	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jI	62	HIS	ND1-CG-CD2	6.92	113.02	106.10
1	jR	125	PRO	CA-C-N	6.92	130.29	120.53
1	jR	125	PRO	C-N-CA	6.92	130.29	120.53
1	jV	95	GLN	OE1-CD-NE2	6.92	129.53	122.60
1	jW	211	LEU	CA-C-N	6.92	129.56	120.28
1	jW	211	LEU	C-N-CA	6.92	129.56	120.28
1	jY	226	HIS	N-CA-C	6.92	119.77	110.35
1	ka	47	ALA	CA-C-N	6.92	131.19	120.60
1	ka	47	ALA	C-N-CA	6.92	131.19	120.60
1	kz	29	GLU	O-C-N	-6.92	114.94	122.07
1	lm	166	ASP	CA-CB-CG	6.92	119.52	112.60
1	lo	15	ILE	O-C-N	-6.92	115.12	122.81
1	lI	84	HIS	ND1-CE1-NE2	6.92	115.32	108.40
1	2h	143	ARG	N-CA-C	6.92	118.48	111.07
1	2M	81	ASP	CA-CB-CG	6.92	119.53	112.60
1	3g	19	THR	N-CA-C	6.92	118.48	111.07
1	3G	7	GLN	CB-CG-CD	6.92	124.37	112.60
1	49	169	TYR	N-CA-CB	6.92	121.69	110.40
1	4t	71	GLU	CA-C-N	6.92	129.56	120.28
1	4t	71	GLU	C-N-CA	6.92	129.56	120.28
1	4I	12	HIS	CA-CB-CG	-6.92	106.88	113.80
1	4P	183	ASN	O-C-N	-6.92	114.78	122.12
1	58	146	SER	CA-C-O	-6.92	113.17	120.23
1	5e	114	GLN	N-CA-C	6.92	118.52	110.97
1	5k	143	ARG	CA-C-N	6.92	129.44	120.44
1	5k	143	ARG	C-N-CA	6.92	129.44	120.44
1	5B	143	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	67	133	TRP	CB-CG-CD1	6.92	137.29	126.90
1	6h	220	GLY	CA-C-N	6.92	129.95	120.46
1	6h	220	GLY	C-N-CA	6.92	129.95	120.46
1	6l	185	MET	CG-SD-CE	-6.92	85.67	100.90
1	6E	167	ARG	N-CA-CB	6.92	120.26	109.94
1	7y	130	TYR	O-C-N	-6.92	114.94	122.07
1	8K	160	PRO	N-CA-C	6.92	122.22	111.21
1	95	195	ASN	CA-CB-CG	-6.92	105.68	112.60
1	9n	37	ILE	N-CA-C	6.92	120.66	112.35
1	Z	221	VAL	O-C-N	-6.92	114.55	122.72
1	a8	195	ASN	O-C-N	-6.92	114.26	121.60
1	ak	84	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	al	192	GLN	N-CA-C	6.92	119.85	111.82
1	aq	219	GLN	O-C-N	-6.92	115.33	123.22
1	at	48	THR	CA-CB-OG1	6.92	119.99	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aH	31	ALA	CA-C-O	-6.92	112.01	119.97
1	aZ	191	VAL	CA-C-N	6.92	129.44	120.44
1	aZ	191	VAL	C-N-CA	6.92	129.44	120.44
1	b4	166	ASP	CA-CB-CG	6.92	119.52	112.60
1	bg	97	ARG	O-C-N	-6.92	116.01	123.42
1	c8	168	PHE	CA-C-N	6.92	129.56	120.28
1	c8	168	PHE	C-N-CA	6.92	129.56	120.28
1	cg	162	ARG	N-CA-C	6.92	119.71	111.33
1	cq	104	ILE	O-C-N	-6.92	115.15	121.87
1	cC	78	ALA	CA-C-O	6.92	127.76	120.42
1	de	2	ILE	N-CA-CB	6.92	119.30	110.99
1	eB	154	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	eN	156	GLY	CA-C-O	-6.92	114.35	121.62
1	fc	13	GLN	N-CA-CB	6.92	121.64	110.77
1	fm	155	GLN	OE1-CD-NE2	-6.92	115.68	122.60
1	fo	12	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	fq	2	ILE	CA-C-N	6.92	132.00	122.93
1	fq	2	ILE	C-N-CA	6.92	132.00	122.93
1	g4	190	LEU	CA-C-N	6.92	129.28	120.56
1	g4	190	LEU	C-N-CA	6.92	129.28	120.56
1	t	77	ALA	O-C-N	-6.92	114.12	122.22
1	u	65	ALA	CA-C-N	6.92	129.56	120.28
1	u	65	ALA	C-N-CA	6.92	129.56	120.28
1	x	166	ASP	O-C-N	-6.92	114.94	122.07
1	D	53	ASN	CA-CB-CG	-6.92	105.67	112.60
1	M	217	ALA	N-CA-C	6.92	118.62	111.14
1	hv	9	GLN	O-C-N	-6.92	114.36	122.87
1	hC	174	ALA	CA-C-N	6.92	131.81	120.94
1	hC	174	ALA	C-N-CA	6.92	131.81	120.94
1	hM	221	VAL	N-CA-CB	6.92	118.27	110.72
1	ir	179	GLN	N-CA-C	6.92	119.42	111.11
1	1Q	226	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	1S	167	ARG	NH1-CZ-NH2	-6.92	110.30	119.30
1	20	44	SER	O-C-N	-6.92	114.01	122.25
1	kG	54	THR	CA-C-N	6.92	129.44	120.44
1	kG	54	THR	C-N-CA	6.92	129.44	120.44
1	la	93	PRO	N-CA-CB	-6.92	96.96	103.19
1	le	184	TRP	O-C-N	-6.92	114.78	122.12
1	2b	12	HIS	CA-CB-CG	6.92	120.72	113.80
1	2B	5	ASN	CA-C-N	6.92	132.19	122.36
1	2B	5	ASN	C-N-CA	6.92	132.19	122.36
1	4K	117	TRP	CA-C-N	6.92	129.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4K	117	TRP	C-N-CA	6.92	129.56	120.28
1	4M	36	VAL	O-C-N	-6.92	114.78	122.05
1	5r	121	ASN	OD1-CG-ND2	-6.92	115.68	122.60
1	7g	137	GLY	CA-C-N	6.92	130.12	120.29
1	7g	137	GLY	C-N-CA	6.92	130.12	120.29
1	7v	22	ALA	N-CA-C	6.92	118.83	111.28
1	7R	88	ALA	N-CA-C	6.92	120.26	110.50
1	9n	4	GLN	CA-C-O	6.92	128.91	121.16
1	ap	215	MET	CA-C-N	6.92	132.28	120.72
1	ap	215	MET	C-N-CA	6.92	132.28	120.72
1	16	92	GLU	CA-C-O	-6.92	113.15	120.70
1	cO	87	HIS	CA-CB-CG	-6.92	106.88	113.80
1	dy	116	GLY	CA-C-O	-6.92	112.68	120.09
1	1m	62	HIS	ND1-CG-CD2	6.92	113.02	106.10
1	ea	143	ARG	NH1-CZ-NH2	-6.92	110.30	119.30
1	eI	124	ILE	CA-C-O	6.92	123.54	119.94
1	fa	153	ILE	N-CA-CB	6.92	119.31	111.21
1	fq	117	TRP	N-CA-C	6.92	118.48	111.07
1	gi	190	LEU	CA-C-N	6.92	131.65	120.30
1	gi	190	LEU	C-N-CA	6.92	131.65	120.30
1	gt	87	HIS	N-CA-C	-6.92	98.83	109.14
1	gz	135	ILE	O-C-N	-6.92	115.16	121.87
1	gP	191	VAL	O-C-N	-6.92	114.99	122.05
1	gW	9	GLN	CA-C-N	6.92	134.59	123.93
1	gW	9	GLN	C-N-CA	6.92	134.59	123.93
1	h5	59	VAL	N-CA-CB	-6.92	104.42	111.90
1	hf	148	THR	N-CA-CB	6.92	120.37	109.71
1	1L	179	GLN	CA-C-O	-6.92	113.21	120.55
1	hP	151	LEU	CA-C-O	6.92	127.37	119.27
1	ih	12	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	il	154	ARG	NE-CZ-NH1	-6.92	114.58	121.50
1	iv	63	GLN	N-CA-C	6.92	118.83	111.28
1	iA	14	ALA	N-CA-C	6.92	119.76	110.35
1	iE	13	GLN	N-CA-C	-6.92	98.92	109.85
1	iE	121	ASN	CB-CA-C	6.92	119.41	110.13
1	jf	33	SER	CA-C-O	-6.92	113.97	120.34
1	ji	224	PRO	N-CA-CB	6.92	110.52	103.25
1	k7	181	VAL	N-CA-C	6.92	117.03	110.53
1	l4	73	ILE	N-CA-C	6.92	117.68	110.62
1	lu	122	PRO	CA-C-N	6.92	126.89	119.76
1	lu	122	PRO	C-N-CA	6.92	126.89	119.76
1	lD	18	ARG	NE-CZ-NH1	6.92	128.42	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lE	12	HIS	ND1-CE1-NE2	6.92	115.32	108.40
1	4c	8	GLY	O-C-N	-6.92	117.30	123.88
1	4c	151	LEU	CA-C-O	6.92	127.89	120.55
1	4U	124	ILE	CA-C-O	6.92	123.23	119.15
1	5y	106	GLY	CA-C-N	6.92	134.76	121.54
1	5y	106	GLY	C-N-CA	6.92	134.76	121.54
1	5H	17	PRO	CA-C-N	6.92	129.44	120.44
1	5H	17	PRO	C-N-CA	6.92	129.44	120.44
1	5W	193	ASN	N-CA-C	-6.92	104.15	112.59
1	6y	226	HIS	ND1-CG-CD2	-6.92	99.18	106.10
1	6C	201	ILE	CB-CA-C	-6.92	102.80	112.14
1	78	98	GLU	CA-C-O	6.92	126.72	119.80
1	7n	129	ILE	CB-CA-C	6.92	120.83	111.97
1	7u	226	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	86	170	LYS	CA-C-N	6.92	129.85	120.44
1	86	170	LYS	C-N-CA	6.92	129.85	120.44
1	8h	173	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	8j	128	GLU	N-CA-CB	6.92	120.40	110.16
1	8W	229	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	90	66	MET	O-C-N	-6.92	114.78	122.12
1	9y	199	LYS	O-C-N	-6.92	114.78	122.12
1	Z	195	ASN	CA-C-N	6.92	128.49	119.84
1	Z	195	ASN	C-N-CA	6.92	128.49	119.84
1	ak	155	GLN	OE1-CD-NE2	6.92	129.52	122.60
1	av	1	PRO	CB-CA-C	6.92	123.25	110.10
1	ay	44	SER	CA-C-N	6.92	129.55	120.28
1	ay	44	SER	C-N-CA	6.92	129.55	120.28
1	aH	223	GLY	O-C-N	-6.92	114.85	121.77
1	aV	55	MET	CA-C-O	-6.92	113.49	120.90
1	bd	198	CYS	CA-C-N	6.92	129.56	120.28
1	bd	198	CYS	C-N-CA	6.92	129.56	120.28
1	bN	102	SER	CA-CB-OG	6.92	124.94	111.10
1	bT	20	LEU	N-CA-C	-6.92	103.81	111.36
1	1d	123	PRO	CA-C-N	6.92	129.35	123.33
1	1d	123	PRO	C-N-CA	6.92	129.35	123.33
1	cg	97	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	cT	118	MET	CA-C-O	6.92	127.89	120.55
1	dm	154	ARG	CA-CB-CG	6.92	127.94	114.10
1	dC	98	GLU	CA-C-N	6.92	128.49	119.84
1	dC	98	GLU	C-N-CA	6.92	128.49	119.84
1	dI	92	GLU	CA-C-N	6.92	127.31	119.83
1	dI	92	GLU	C-N-CA	6.92	127.31	119.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dP	185	MET	CG-SD-CE	-6.92	85.67	100.90
1	e7	6	LEU	CA-C-O	6.92	128.76	121.15
1	fY	77	ALA	N-CA-CB	-6.92	99.94	110.12
1	c	151	LEU	O-C-N	-6.92	112.32	122.43
1	2	37	ILE	N-CA-C	6.92	120.66	112.35
1	M	3	VAL	O-C-N	-6.92	115.91	123.18
1	6	32	PHE	CA-CB-CG	-6.92	106.88	113.80
1	gn	120	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	gC	218	CYS	O-C-N	-6.92	113.39	122.59
1	hB	214	MET	O-C-N	-6.92	114.78	122.12
1	iF	212	GLU	O-C-N	-6.92	114.62	122.09
1	jm	112	GLN	O-C-N	-6.92	114.78	122.12
1	jm	211	LEU	N-CA-C	6.92	118.82	111.28
1	jB	216	THR	CA-CB-OG1	6.92	119.98	109.60
1	kg	59	VAL	CB-CA-C	6.92	121.78	111.26
1	lI	19	THR	N-CA-C	6.92	118.82	111.28
1	lJ	35	GLU	N-CA-C	6.92	121.17	112.87
1	lL	31	ALA	N-CA-C	6.92	119.70	111.33
1	3M	214	MET	N-CA-C	6.92	118.82	111.28
1	4W	22	ALA	N-CA-C	6.92	118.47	111.07
1	5e	171	THR	N-CA-C	6.92	119.70	111.33
1	5S	138	LEU	N-CA-C	6.92	118.82	111.28
1	7n	103	ASP	CA-CB-CG	-6.92	105.68	112.60
1	7I	136	LEU	O-C-N	-6.92	114.26	122.15
1	9H	42	ALA	N-CA-C	6.92	119.70	111.33
1	ad	79	GLU	N-CA-C	6.92	118.90	111.36
1	11	117	TRP	CB-CA-C	6.92	121.74	110.88
1	au	160	PRO	N-CA-C	6.92	122.08	111.15
1	bS	3	VAL	N-CA-CB	6.92	118.65	110.55
1	d8	180	GLU	N-CA-C	6.92	118.82	111.28
1	dx	221	VAL	N-CA-CB	6.92	120.96	110.58
1	eA	78	ALA	O-C-N	-6.92	113.06	122.33
1	eL	152	ASP	CA-CB-CG	6.92	119.52	112.60
1	fT	97	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	v	164	TYR	N-CA-C	6.92	118.47	111.07
1	gu	50	GLN	CA-C-N	6.92	129.44	120.44
1	gu	50	GLN	C-N-CA	6.92	129.44	120.44
1	gu	54	THR	N-CA-C	-6.92	103.75	111.71
1	hd	107	THR	N-CA-C	6.92	119.41	111.11
1	hm	212	GLU	CA-C-N	6.92	129.55	120.28
1	hm	212	GLU	C-N-CA	6.92	129.55	120.28
1	ho	228	ALA	N-CA-C	6.92	120.27	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1J	98	GLU	O-C-N	-6.92	114.09	121.42
1	i7	143	ARG	CA-C-N	6.92	129.88	120.54
1	i7	143	ARG	C-N-CA	6.92	129.88	120.54
1	ig	100	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	io	144	MET	O-C-N	-6.92	114.79	122.12
1	ir	33	SER	CA-C-O	-6.92	111.74	120.04
1	iS	22	ALA	CA-C-O	6.92	127.75	120.42
1	j8	152	ASP	CA-CB-CG	6.92	119.52	112.60
1	jl	4	GLN	O-C-N	-6.92	114.89	123.33
1	jA	185	MET	N-CA-C	6.92	118.82	111.28
1	jH	111	LEU	CA-C-N	6.92	129.43	120.44
1	jH	111	LEU	C-N-CA	6.92	129.43	120.44
1	jN	169	TYR	N-CA-C	6.92	119.70	111.33
1	jU	100	ARG	O-C-N	-6.92	115.21	123.03
1	kn	147	PRO	N-CA-CB	-6.92	95.99	103.25
1	23	39	MET	O-C-N	-6.92	114.79	122.12
1	26	84	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	lw	39	MET	O-C-N	-6.92	114.68	122.08
1	2J	100	ARG	CD-NE-CZ	6.92	134.09	124.40
1	3h	146	SER	O-C-N	-6.92	115.71	121.38
1	3L	143	ARG	CA-C-N	6.92	129.86	120.38
1	3L	143	ARG	C-N-CA	6.92	129.86	120.38
1	3O	18	ARG	NH1-CZ-NH2	-6.92	110.31	119.30
1	4a	110	THR	O-C-N	-6.92	115.19	122.94
1	4M	175	GLU	O-C-N	-6.92	114.94	123.04
1	5E	129	ILE	N-CA-C	6.92	117.06	110.42
1	5W	53	ASN	CA-CB-CG	-6.92	105.68	112.60
1	61	9	GLN	OE1-CD-NE2	-6.92	115.68	122.60
1	6T	4	GLN	OE1-CD-NE2	6.92	129.52	122.60
1	93	210	THR	N-CA-CB	6.92	120.25	110.36
1	97	104	ILE	N-CA-C	6.92	117.68	110.62
1	9T	92	GLU	N-CA-C	6.92	122.16	112.75
1	aj	123	PRO	CA-C-N	-6.92	115.83	123.02
1	aj	123	PRO	C-N-CA	-6.92	115.83	123.02
1	aG	92	GLU	N-CA-C	6.92	119.46	109.84
1	aO	147	PRO	N-CA-C	6.92	122.11	111.11
1	aV	84	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	16	111	LEU	CA-C-O	6.92	127.75	120.42
1	ba	45	GLU	O-C-N	-6.92	113.81	123.01
1	dA	179	GLN	CB-CG-CD	6.92	124.36	112.60
1	dP	204	ALA	N-CA-CB	6.92	120.51	110.20
1	dW	18	ARG	NE-CZ-NH1	6.92	128.42	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e3	27	VAL	N-CA-C	6.92	117.71	110.72
1	eq	79	GLU	N-CA-C	6.92	118.82	111.28
1	1v	175	GLU	N-CA-C	6.92	120.26	110.50
1	fm	64	ALA	CA-C-N	6.92	129.43	120.44
1	fm	64	ALA	C-N-CA	6.92	129.43	120.44
1	fO	41	SER	CA-C-N	6.92	129.44	120.44
1	fO	41	SER	C-N-CA	6.92	129.44	120.44
1	fO	137	GLY	CA-C-N	6.92	129.55	120.28
1	fO	137	GLY	C-N-CA	6.92	129.55	120.28
1	fU	167	ARG	N-CA-C	6.92	118.47	111.07
1	p	36	VAL	CA-C-N	6.92	125.86	120.33
1	p	36	VAL	C-N-CA	6.92	125.86	120.33
1	q	131	LYS	O-C-N	6.92	129.45	122.12
1	gk	84	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	gm	12	HIS	CE1-NE2-CD2	-6.92	102.08	109.00
1	gt	114	GLN	N-CA-CB	6.92	120.33	109.82
1	gB	188	THR	CA-CB-OG1	6.92	119.98	109.60
1	gO	91	ILE	N-CA-C	6.92	117.81	107.51
1	ha	90	PRO	O-C-N	-6.92	115.44	122.98
1	hL	195	ASN	CA-CB-CG	6.92	119.52	112.60
1	i2	87	HIS	N-CA-C	6.92	120.52	110.28
1	ib	37	ILE	N-CA-CB	6.92	115.15	110.52
1	ie	125	PRO	N-CA-CB	-6.92	97.68	102.73
1	iw	192	GLN	N-CA-CB	6.92	120.25	109.94
1	iH	141	ILE	CA-C-N	6.92	130.28	120.53
1	iH	141	ILE	C-N-CA	6.92	130.28	120.53
1	1T	32	PHE	CA-CB-CG	-6.92	106.88	113.80
1	jv	40	PHE	CA-CB-CG	-6.92	106.88	113.80
1	1Y	24	VAL	O-C-N	-6.92	115.13	121.91
1	jQ	73	ILE	N-CA-CB	6.92	119.95	110.54
1	jR	124	ILE	CA-C-O	-6.92	113.80	119.47
1	k8	86	VAL	CA-C-N	6.92	130.57	120.82
1	k8	86	VAL	C-N-CA	6.92	130.57	120.82
1	kr	99	PRO	N-CA-C	6.92	122.21	111.21
1	kw	39	MET	CA-C-O	6.92	127.75	120.42
1	kB	33	SER	O-C-N	-6.92	116.97	121.88
1	kN	48	THR	O-C-N	-6.92	113.22	121.31
1	kR	68	MET	CA-C-N	6.92	129.43	120.44
1	kR	68	MET	C-N-CA	6.92	129.43	120.44
1	kV	68	MET	O-C-N	-6.92	114.79	122.12
1	kX	67	GLN	N-CA-C	6.92	119.70	111.33
1	lm	215	MET	CA-CB-CG	-6.92	100.27	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	205	LEU	CA-C-N	6.92	132.73	121.87
1	lN	205	LEU	C-N-CA	6.92	132.73	121.87
1	2g	100	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	2X	162	ARG	NE-CZ-NH2	-6.92	112.98	119.20
1	36	26	VAL	CA-C-N	6.92	129.27	120.56
1	36	26	VAL	C-N-CA	6.92	129.27	120.56
1	3b	45	GLU	N-CA-C	6.92	122.78	111.37
1	3P	133	TRP	CB-CG-CD2	-6.92	117.12	126.80
1	4h	162	ARG	N-CA-C	6.92	118.82	111.28
1	4i	131	LYS	N-CA-C	6.92	118.47	111.07
1	4N	30	LYS	CA-C-O	-6.92	111.27	119.15
1	5q	216	THR	N-CA-CB	6.92	120.95	110.30
1	5y	156	GLY	CA-C-N	6.92	126.52	119.19
1	5y	156	GLY	C-N-CA	6.92	126.52	119.19
1	5T	104	ILE	N-CA-C	6.92	117.67	110.62
1	6b	147	PRO	N-CA-C	6.92	122.11	111.11
1	6c	1	PRO	CB-CA-C	6.92	123.24	110.10
1	6W	73	ILE	CA-C-N	6.92	129.55	120.28
1	6W	73	ILE	C-N-CA	6.92	129.55	120.28
1	7s	75	GLU	CA-C-O	6.92	127.75	120.42
1	7B	18	ARG	NE-CZ-NH2	-6.92	112.97	119.20
1	7V	142	VAL	O-C-N	-6.92	115.13	121.91
1	7Y	98	GLU	CA-C-N	6.92	126.90	119.78
1	7Y	98	GLU	C-N-CA	6.92	126.90	119.78
1	9G	173	ARG	N-CA-C	6.92	118.82	111.28
1	a1	74	ASN	OD1-CG-ND2	-6.92	115.68	122.60
1	ao	130	TYR	N-CA-C	6.92	119.41	111.11
1	at	63	GLN	OE1-CD-NE2	-6.92	115.68	122.60
1	aB	52	LEU	CA-C-N	6.92	129.55	120.28
1	aB	52	LEU	C-N-CA	6.92	129.55	120.28
1	14	24	VAL	N-CA-CB	6.92	118.19	110.51
1	aX	30	LYS	CB-CA-C	-6.92	98.74	110.64
1	bk	62	HIS	ND1-CG-CD2	6.92	113.02	106.10
1	bk	153	ILE	N-CA-C	6.92	118.50	109.58
1	bl	214	MET	N-CA-C	6.92	119.84	111.82
1	bm	148	THR	CA-C-O	6.92	127.76	120.36
1	c0	137	GLY	N-CA-C	6.92	120.86	112.49
1	cS	12	HIS	CA-CB-CG	6.92	120.72	113.80
1	cU	132	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	cV	18	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	dl	230	VAL	CA-C-O	6.92	126.53	119.20
1	dF	19	THR	CA-C-O	-6.92	113.56	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1n	115	ILE	CA-C-N	6.92	127.62	119.94
1	1n	115	ILE	C-N-CA	6.92	127.62	119.94
1	eY	143	ARG	NE-CZ-NH1	6.92	128.42	121.50
1	fK	64	ALA	O-C-N	-6.92	114.94	122.07
1	fO	41	SER	CA-C-O	6.92	127.75	120.42
1	I	130	TYR	CB-CG-CD1	-6.92	110.42	120.80
1	hg	78	ALA	CA-C-N	6.92	129.84	120.44
1	hg	78	ALA	C-N-CA	6.92	129.84	120.44
1	i6	92	GLU	CA-C-O	-6.92	113.42	120.96
1	jZ	7	GLN	CA-C-O	6.92	126.66	119.05
1	3e	13	GLN	CA-C-O	-6.92	112.89	120.36
1	3l	168	PHE	CA-CB-CG	6.92	120.72	113.80
1	4f	66	MET	CG-SD-CE	-6.92	85.69	100.90
1	4f	92	GLU	N-CA-CB	6.92	122.68	110.37
1	4i	163	ASP	CA-C-N	6.92	129.54	120.28
1	4i	163	ASP	C-N-CA	6.92	129.54	120.28
1	4y	213	GLU	O-C-N	-6.92	113.36	122.42
1	4M	180	GLU	CA-C-N	6.92	130.24	120.42
1	4M	180	GLU	C-N-CA	6.92	130.24	120.42
1	55	160	PRO	O-C-N	-6.92	114.11	122.89
1	5I	169	TYR	N-CA-C	6.92	119.70	111.33
1	5R	161	PHE	CA-CB-CG	-6.92	106.89	113.80
1	6n	119	THR	O-C-N	-6.92	114.95	122.07
1	7r	81	ASP	CA-C-N	6.92	129.88	120.54
1	7r	81	ASP	C-N-CA	6.92	129.88	120.54
1	7y	10	MET	CG-SD-CE	-6.92	85.69	100.90
1	7D	33	SER	CA-C-N	6.92	127.49	119.47
1	7D	33	SER	C-N-CA	6.92	127.49	119.47
1	8L	165	VAL	O-C-N	-6.92	115.16	121.87
1	9J	62	HIS	CA-CB-CG	-6.92	106.89	113.80
1	aB	62	HIS	N-CA-CB	-6.92	101.73	111.62
1	bg	98	GLU	CA-C-O	-6.92	113.18	120.23
1	bh	88	ALA	CA-C-N	6.92	132.73	121.87
1	bh	88	ALA	C-N-CA	6.92	132.73	121.87
1	cd	171	THR	CA-C-O	6.92	127.88	120.55
1	dv	16	SER	N-CA-C	6.92	119.53	109.71
1	eL	197	ASP	O-C-N	-6.92	114.27	122.15
1	eW	167	ARG	NH1-CZ-NH2	-6.92	110.31	119.30
1	fs	164	TYR	CB-CA-C	6.92	122.27	110.79
1	fR	188	THR	CA-C-N	6.92	130.48	120.38
1	fR	188	THR	C-N-CA	6.92	130.48	120.38
1	G	39	MET	O-C-N	-6.92	114.27	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g9	167	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	gy	87	HIS	CA-CB-CG	6.91	120.71	113.80
1	gC	184	TRP	CA-C-N	6.91	130.40	120.79
1	gC	184	TRP	C-N-CA	6.91	130.40	120.79
1	gR	211	LEU	N-CA-C	6.91	118.81	111.28
1	h5	80	TRP	N-CA-C	6.91	118.47	111.07
1	hr	118	MET	CA-C-O	6.91	127.41	119.18
1	hK	176	GLN	CA-C-O	6.91	127.03	119.15
1	hV	110	THR	N-CA-CB	6.91	120.12	110.17
1	i2	107	THR	CA-CB-OG1	6.91	119.97	109.60
1	iQ	62	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	iQ	131	LYS	N-CA-C	6.91	118.81	111.28
1	jV	195	ASN	CA-CB-CG	6.91	119.51	112.60
1	jZ	166	ASP	N-CA-CB	6.91	120.03	110.01
1	k6	158	LYS	CA-C-N	6.91	129.93	120.67
1	k6	158	LYS	C-N-CA	6.91	129.93	120.67
1	k8	71	GLU	N-CA-C	6.91	118.82	111.28
1	2r	66	MET	O-C-N	-6.91	114.13	122.22
1	2t	62	HIS	CA-CB-CG	6.91	120.71	113.80
1	2v	119	THR	N-CA-C	6.91	118.90	111.36
1	2A	143	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	2C	93	PRO	N-CA-CB	6.91	109.33	103.25
1	2F	141	ILE	O-C-N	-6.91	114.71	121.83
1	2Z	202	LEU	CA-C-N	6.91	130.03	120.63
1	2Z	202	LEU	C-N-CA	6.91	130.03	120.63
1	31	181	VAL	O-C-N	-6.91	115.16	121.87
1	3h	195	ASN	O-C-N	-6.91	113.69	121.43
1	50	66	MET	CG-SD-CE	-6.91	85.69	100.90
1	5l	47	ALA	O-C-N	-6.91	114.37	122.87
1	5x	100	ARG	CD-NE-CZ	-6.91	114.72	124.40
1	5G	162	ARG	CB-CA-C	6.91	121.73	110.88
1	72	82	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	7f	226	HIS	CB-CG-CD2	-6.91	122.21	131.20
1	7h	82	ARG	NH1-CZ-NH2	-6.91	110.31	119.30
1	7H	46	GLY	N-CA-C	6.91	124.91	114.61
1	7M	171	THR	N-CA-C	6.91	118.47	111.07
1	8z	8	GLY	CA-C-N	6.91	130.53	120.71
1	8z	8	GLY	C-N-CA	6.91	130.53	120.71
1	Z	221	VAL	CA-C-N	6.91	126.67	120.10
1	Z	221	VAL	C-N-CA	6.91	126.67	120.10
1	a9	73	ILE	N-CA-C	6.91	117.67	110.62
1	b0	181	VAL	N-CA-C	6.91	117.67	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1b	144	MET	N-CA-C	6.91	119.70	111.33
1	bX	97	ARG	NH1-CZ-NH2	-6.91	110.31	119.30
1	cq	143	ARG	NH1-CZ-NH2	-6.91	110.31	119.30
1	cv	162	ARG	O-C-N	-6.91	114.90	122.09
1	d0	169	TYR	CA-C-N	6.91	129.87	120.54
1	d0	169	TYR	C-N-CA	6.91	129.87	120.54
1	dY	128	GLU	N-CA-C	6.91	118.47	111.07
1	ei	190	LEU	O-C-N	-6.91	114.95	122.07
1	eB	139	ASN	CA-C-O	6.91	127.88	120.55
1	fe	201	ILE	N-CA-C	6.91	117.67	110.62
1	1z	129	ILE	N-CA-C	6.91	117.67	110.62
1	fZ	194	ALA	N-CA-C	6.91	119.99	110.24
1	1B	223	GLY	O-C-N	-6.91	114.86	121.77
1	u	166	ASP	CA-C-O	-6.91	113.56	120.82
1	y	38	PRO	N-CA-C	-6.91	104.14	113.40
1	J	154	ARG	CA-C-N	6.91	132.29	121.99
1	J	154	ARG	C-N-CA	6.91	132.29	121.99
1	Q	226	HIS	N-CA-C	-6.91	103.52	112.23
1	h8	64	ALA	N-CA-CB	-6.91	99.90	110.20
1	hM	51	ASP	CA-C-O	6.91	127.75	120.42
1	hS	20	LEU	N-CA-C	6.91	118.47	111.07
1	im	166	ASP	CA-C-N	6.91	129.54	120.28
1	im	166	ASP	C-N-CA	6.91	129.54	120.28
1	ir	173	ARG	N-CA-C	6.91	119.69	111.33
1	is	26	VAL	O-C-N	-6.91	114.71	121.83
1	iA	120	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	jL	221	VAL	N-CA-C	6.91	119.39	109.51
1	jZ	180	GLU	N-CA-C	6.91	119.84	111.82
1	kd	12	HIS	CG-CD2-NE2	6.91	114.11	107.20
1	kq	11	VAL	O-C-N	-6.91	116.09	123.14
1	ll	144	MET	CA-C-O	6.91	127.75	120.42
1	lz	63	GLN	N-CA-C	6.91	118.81	111.28
1	3T	205	LEU	O-C-N	-6.91	114.84	122.03
1	4Z	167	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	68	84	HIS	CA-CB-CG	-6.91	106.89	113.80
1	6U	56	LEU	N-CA-C	6.91	118.81	111.28
1	7A	50	GLN	N-CA-C	6.91	119.41	111.11
1	8v	92	GLU	CA-C-O	-6.91	112.89	119.80
1	8y	25	LYS	O-C-N	-6.91	114.79	122.12
1	8F	93	PRO	CA-C-N	6.91	130.55	120.11
1	8F	93	PRO	C-N-CA	6.91	130.55	120.11
1	9k	130	TYR	CA-C-O	-6.91	113.22	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9E	62	HIS	ND1-CE1-NE2	6.91	115.31	108.40
1	9H	87	HIS	CG-CD2-NE2	6.91	114.11	107.20
1	9P	194	ALA	O-C-N	-6.91	114.91	122.79
1	9U	162	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	17	102	SER	N-CA-C	6.91	118.81	111.28
1	c5	216	THR	N-CA-C	-6.91	104.42	112.92
1	cH	194	ALA	CA-C-N	6.91	130.00	120.39
1	cH	194	ALA	C-N-CA	6.91	130.00	120.39
1	cL	159	GLU	N-CA-C	6.91	118.50	109.93
1	1i	39	MET	O-C-N	-6.91	114.79	122.12
1	ds	107	THR	CA-CB-OG1	6.91	119.97	109.60
1	1m	86	VAL	N-CA-C	6.91	117.67	110.62
1	1p	194	ALA	O-C-N	-6.91	114.97	122.85
1	f8	207	PRO	N-CA-C	-6.91	103.00	114.75
1	fJ	25	LYS	N-CA-C	6.91	119.69	111.33
1	K	24	VAL	N-CA-CB	6.91	118.64	110.55
1	g9	75	GLU	N-CA-CB	6.91	120.24	109.94
1	gf	212	GLU	N-CA-C	6.91	119.69	111.33
1	gO	39	MET	CA-C-N	6.91	129.42	120.44
1	gO	39	MET	C-N-CA	6.91	129.42	120.44
1	gV	84	HIS	CA-C-N	6.91	128.48	119.84
1	gV	84	HIS	C-N-CA	6.91	128.48	119.84
1	hx	12	HIS	CA-CB-CG	6.91	120.71	113.80
1	hG	204	ALA	N-CA-CB	-6.91	99.96	110.12
1	io	172	LEU	O-C-N	-6.91	114.95	122.07
1	iw	75	GLU	N-CA-C	6.91	119.40	111.11
1	1Q	154	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	1S	192	GLN	OE1-CD-NE2	-6.91	115.69	122.60
1	j3	201	ILE	N-CA-C	6.91	117.67	110.62
1	jc	7	GLN	N-CA-C	-6.91	104.37	114.39
1	jO	129	ILE	CA-CB-CG1	6.91	122.15	110.40
1	jO	168	PHE	CB-CA-C	6.91	121.73	110.88
1	jT	197	ASP	CA-C-N	6.91	129.54	120.28
1	jT	197	ASP	C-N-CA	6.91	129.54	120.28
1	ke	123	PRO	N-CA-CB	6.91	109.41	103.19
1	kj	142	VAL	N-CA-CB	-6.91	102.47	110.55
1	kq	63	GLN	N-CA-C	6.91	118.46	111.07
1	kA	202	LEU	N-CA-CB	6.91	120.28	110.12
1	kC	152	ASP	CA-C-N	6.91	129.76	120.50
1	kC	152	ASP	C-N-CA	6.91	129.76	120.50
1	23	217	ALA	CA-C-O	6.91	129.09	121.56
1	lj	193	ASN	CA-C-N	6.91	130.52	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lj	193	ASN	C-N-CA	6.91	130.52	120.71
1	lK	107	THR	CA-CB-OG1	-6.91	99.23	109.60
1	2b	75	GLU	N-CA-C	6.91	119.40	111.11
1	2k	52	LEU	N-CA-C	6.91	118.46	111.07
1	2m	62	HIS	ND1-CG-CD2	6.91	113.01	106.10
1	2z	72	THR	CA-C-N	6.91	129.93	120.46
1	2z	72	THR	C-N-CA	6.91	129.93	120.46
1	2P	223	GLY	CA-C-N	6.91	128.48	119.84
1	2P	223	GLY	C-N-CA	6.91	128.48	119.84
1	3a	221	VAL	N-CA-C	6.91	117.67	110.62
1	43	103	ASP	CA-CB-CG	-6.91	105.69	112.60
1	4s	16	SER	CA-C-N	6.91	126.72	119.05
1	4s	16	SER	C-N-CA	6.91	126.72	119.05
1	4I	23	TRP	N-CA-CB	-6.91	99.93	110.16
1	4L	145	TYR	CA-C-O	6.91	127.79	119.43
1	5f	181	VAL	CA-C-N	6.91	129.42	120.44
1	5f	181	VAL	C-N-CA	6.91	129.42	120.44
1	5h	125	PRO	CA-C-N	6.91	129.27	120.56
1	5h	125	PRO	C-N-CA	6.91	129.27	120.56
1	5j	111	LEU	O-C-N	-6.91	114.80	122.12
1	5l	167	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	5p	181	VAL	N-CA-CB	-6.91	101.14	110.54
1	5M	36	VAL	N-CA-C	6.91	117.67	110.62
1	6f	52	LEU	N-CA-C	6.91	118.81	111.28
1	6R	76	GLU	CA-C-N	6.91	129.54	120.28
1	6R	76	GLU	C-N-CA	6.91	129.54	120.28
1	70	128	GLU	O-C-N	-6.91	114.80	122.12
1	77	167	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	79	112	GLN	OE1-CD-NE2	6.91	129.51	122.60
1	7y	22	ALA	CA-C-N	6.91	129.42	120.44
1	7y	22	ALA	C-N-CA	6.91	129.42	120.44
1	7U	98	GLU	CB-CA-C	6.91	117.73	109.85
1	7V	137	GLY	O-C-N	-6.91	115.49	122.19
1	7X	74	ASN	OD1-CG-ND2	-6.91	115.69	122.60
1	8P	164	TYR	CA-C-N	6.91	129.93	120.46
1	8P	164	TYR	C-N-CA	6.91	129.93	120.46
1	8S	54	THR	O-C-N	-6.91	114.95	122.07
1	9d	100	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	9r	176	GLN	CA-C-N	6.91	132.34	121.56
1	9r	176	GLN	C-N-CA	6.91	132.34	121.56
1	ab	73	ILE	CA-C-N	6.91	129.42	120.44
1	ab	73	ILE	C-N-CA	6.91	129.42	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ao	202	LEU	N-CA-C	6.91	119.66	111.71
1	aw	110	THR	CA-CB-OG1	6.91	119.97	109.60
1	az	111	LEU	N-CA-C	6.91	119.69	111.33
1	aE	173	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	b1	183	ASN	CA-CB-CG	-6.91	105.69	112.60
1	bB	84	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	1b	84	HIS	CA-C-O	6.91	126.00	120.19
1	c1	135	ILE	N-CA-C	6.91	118.50	110.62
1	cr	182	LYS	O-C-N	-6.91	114.90	122.09
1	cG	41	SER	O-C-N	-6.91	114.63	122.09
1	cU	3	VAL	O-C-N	-6.91	115.71	123.10
1	d0	50	GLN	CA-C-O	6.91	127.88	120.55
1	dD	82	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	dP	212	GLU	N-CA-C	6.91	118.81	111.28
1	ex	98	GLU	O-C-N	-6.91	113.69	121.43
1	eC	170	LYS	O-C-N	-6.91	114.14	122.22
1	fl	205	LEU	N-CA-CB	6.91	120.86	110.22
1	1z	96	MET	CG-SD-CE	-6.91	85.70	100.90
1	g2	163	ASP	CA-CB-CG	6.91	119.51	112.60
1	g8	66	MET	N-CA-C	6.91	118.81	111.28
1	gg	22	ALA	CA-C-O	6.91	127.87	120.55
1	hz	144	MET	CA-C-O	6.91	127.79	119.43
1	i1	174	ALA	N-CA-C	6.91	118.46	111.07
1	ib	198	CYS	N-CA-CB	6.91	120.39	110.16
1	iF	3	VAL	CB-CA-C	6.91	118.95	110.73
1	iG	183	ASN	CA-CB-CG	6.91	119.51	112.60
1	jP	39	MET	CA-C-N	6.91	129.87	120.54
1	jP	39	MET	C-N-CA	6.91	129.87	120.54
1	jS	84	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	jZ	55	MET	O-C-N	-6.91	114.95	122.07
1	kn	150	ILE	O-C-N	-6.91	115.17	121.87
1	kx	176	GLN	CB-CG-CD	6.91	124.34	112.60
1	kJ	99	PRO	CA-C-O	-6.91	113.55	121.56
1	kN	32	PHE	CA-CB-CG	6.91	120.71	113.80
1	lO	9	GLN	O-C-N	-6.91	113.40	122.59
1	2c	34	PRO	CA-C-N	6.91	131.75	120.63
1	2c	34	PRO	C-N-CA	6.91	131.75	120.63
1	2j	109	SER	N-CA-CB	6.91	121.67	110.41
1	32	149	SER	CA-C-N	6.91	132.40	120.86
1	32	149	SER	C-N-CA	6.91	132.40	120.86
1	35	210	THR	CA-CB-CG2	6.91	122.25	110.50
1	44	124	ILE	O-C-N	-6.91	117.02	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4i	190	LEU	N-CA-C	6.91	118.46	111.07
1	4y	62	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	4N	192	GLN	CA-C-O	6.91	127.95	119.11
1	5c	113	GLU	N-CA-C	6.91	118.81	111.28
1	5h	82	ARG	CA-C-O	6.91	127.88	119.31
1	5s	197	ASP	CA-C-N	6.91	129.84	120.44
1	5s	197	ASP	C-N-CA	6.91	129.84	120.44
1	6n	135	ILE	O-C-N	-6.91	115.17	121.87
1	6t	173	ARG	CA-C-N	6.91	130.10	120.29
1	6t	173	ARG	C-N-CA	6.91	130.10	120.29
1	6x	180	GLU	CA-C-N	6.91	129.26	120.56
1	6x	180	GLU	C-N-CA	6.91	129.26	120.56
1	6y	78	ALA	CA-C-N	6.91	129.54	120.28
1	6y	78	ALA	C-N-CA	6.91	129.54	120.28
1	6E	40	PHE	N-CA-C	6.91	118.81	111.28
1	7D	54	THR	N-CA-CB	6.91	120.28	110.12
1	8c	72	THR	CA-C-O	6.91	127.87	120.55
1	8u	188	THR	CA-C-N	6.91	130.10	120.29
1	8u	188	THR	C-N-CA	6.91	130.10	120.29
1	8x	87	HIS	ND1-CE1-NE2	6.91	115.31	108.40
1	98	154	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	9g	195	ASN	O-C-N	-6.91	113.93	121.53
1	9R	1	PRO	CB-CA-C	6.91	123.23	110.10
1	ab	79	GLU	N-CA-C	6.91	118.89	111.36
1	aF	73	ILE	N-CA-C	6.91	117.67	110.62
1	bc	159	GLU	O-C-N	-6.91	114.99	121.35
1	bz	65	ALA	N-CA-CB	-6.91	99.97	110.33
1	cl	161	PHE	CA-C-O	-6.91	113.23	120.55
1	cy	134	ILE	N-CA-C	6.91	117.70	110.72
1	cF	144	MET	N-CA-C	6.91	119.66	111.71
1	cM	102	SER	N-CA-C	6.91	119.65	111.71
1	dG	194	ALA	CA-C-O	6.91	128.90	121.16
1	1m	128	GLU	N-CA-C	6.91	118.46	111.07
1	e9	145	TYR	N-CA-C	-6.91	104.16	112.59
1	eN	81	ASP	O-C-N	-6.91	114.27	122.15
1	f7	179	GLN	N-CA-CB	6.91	120.28	110.12
1	fj	133	TRP	N-CA-C	6.91	118.46	111.07
1	fL	214	MET	CA-C-N	6.91	129.54	120.28
1	fL	214	MET	C-N-CA	6.91	129.54	120.28
1	fR	192	GLN	OE1-CD-NE2	-6.91	115.69	122.60
1	i	176	GLN	N-CA-C	6.91	121.19	111.52
1	1	166	ASP	CA-CB-CG	6.91	119.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	195	ASN	CB-CA-C	6.91	119.47	109.11
1	E	152	ASP	CA-CB-CG	-6.91	105.69	112.60
1	E	216	THR	CA-C-N	6.91	129.42	120.44
1	E	216	THR	C-N-CA	6.91	129.42	120.44
1	G	143	ARG	CA-C-N	6.91	129.42	120.44
1	G	143	ARG	C-N-CA	6.91	129.42	120.44
1	M	89	GLY	CA-C-N	6.91	126.51	119.19
1	M	89	GLY	C-N-CA	6.91	126.51	119.19
1	gF	102	SER	CA-C-O	6.91	127.87	120.55
1	h8	103	ASP	CA-CB-CG	6.91	119.51	112.60
1	i0	65	ALA	N-CA-C	6.91	118.81	111.28
1	i8	48	THR	N-CA-CB	6.91	117.75	109.74
1	jk	199	LYS	N-CA-C	6.91	118.81	111.28
1	jC	53	ASN	CA-CB-CG	-6.91	105.69	112.60
1	jI	191	VAL	CA-C-O	6.91	127.42	119.89
1	jT	97	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	jW	202	LEU	CA-C-N	6.91	130.10	120.29
1	jW	202	LEU	C-N-CA	6.91	130.10	120.29
1	kn	34	PRO	CA-C-N	6.91	132.25	120.72
1	kn	34	PRO	C-N-CA	6.91	132.25	120.72
1	kN	1	PRO	CB-CA-C	6.91	123.22	110.10
1	lt	150	ILE	O-C-N	-6.91	115.12	121.89
1	33	81	ASP	N-CA-C	6.91	118.81	111.28
1	3c	42	ALA	CA-C-O	6.91	127.87	120.55
1	3l	82	ARG	NE-CZ-NH1	6.91	128.41	121.50
1	4k	78	ALA	N-CA-C	6.91	118.60	111.14
1	4M	136	LEU	N-CA-C	6.91	119.40	111.11
1	5l	132	ARG	CA-C-N	6.91	129.53	120.28
1	5l	132	ARG	C-N-CA	6.91	129.53	120.28
1	5o	101	GLY	N-CA-C	6.91	121.26	112.83
1	5y	196	PRO	N-CA-C	6.91	124.04	113.75
1	5L	112	GLN	CA-C-N	6.91	129.42	120.44
1	5L	112	GLN	C-N-CA	6.91	129.42	120.44
1	6k	120	HIS	ND1-CE1-NE2	6.91	115.31	108.40
1	7f	21	ASN	CA-C-N	6.91	129.84	120.38
1	7f	21	ASN	C-N-CA	6.91	129.84	120.38
1	7O	87	HIS	N-CA-C	6.91	119.74	109.59
1	89	71	GLU	CA-C-N	6.91	129.86	120.54
1	89	71	GLU	C-N-CA	6.91	129.86	120.54
1	8a	213	GLU	N-CA-C	6.91	118.46	111.07
1	8v	178	SER	N-CA-C	6.91	120.02	110.35
1	9m	69	LEU	O-C-N	-6.91	114.80	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	184	TRP	CA-C-N	6.91	129.87	120.54
1	9m	184	TRP	C-N-CA	6.91	129.87	120.54
1	9q	162	ARG	CA-C-O	6.91	127.87	120.55
1	9Y	78	ALA	CA-C-N	6.91	130.10	120.29
1	9Y	78	ALA	C-N-CA	6.91	130.10	120.29
1	a0	14	ALA	CA-C-N	6.91	129.75	120.50
1	a0	14	ALA	C-N-CA	6.91	129.75	120.50
1	a6	172	LEU	CA-C-O	6.91	127.87	120.55
1	bg	29	GLU	N-CA-C	6.91	118.46	111.07
1	bw	98	GLU	N-CA-C	6.91	118.41	109.64
1	ce	52	LEU	N-CA-C	6.91	118.46	111.07
1	cO	151	LEU	N-CA-C	6.91	118.81	111.28
1	dv	214	MET	N-CA-C	6.91	118.89	111.36
1	ej	50	GLN	N-CA-C	6.91	118.46	111.07
1	f9	81	ASP	O-C-N	-6.91	113.77	122.27
1	M	130	TYR	N-CA-C	6.91	118.81	111.28
1	gf	155	GLN	O-C-N	-6.91	116.03	123.42
1	gI	129	ILE	CA-C-N	6.91	129.53	120.28
1	gI	129	ILE	C-N-CA	6.91	129.53	120.28
1	h4	107	THR	N-CA-C	6.91	118.46	111.07
1	h9	131	LYS	N-CA-C	6.91	118.81	111.28
1	hS	134	ILE	N-CA-CB	6.91	118.63	110.55
1	i6	9	GLN	N-CA-C	6.91	118.46	111.07
1	iV	181	VAL	CA-C-N	6.91	129.84	120.38
1	iV	181	VAL	C-N-CA	6.91	129.84	120.38
1	ju	12	HIS	CA-C-O	6.91	128.44	120.98
1	jT	89	GLY	N-CA-C	6.91	126.43	112.34
1	1Z	42	ALA	N-CA-C	6.91	122.77	111.37
1	kl	213	GLU	CA-C-N	6.91	129.53	120.28
1	kl	213	GLU	C-N-CA	6.91	129.53	120.28
1	kq	168	PHE	N-CA-CB	-6.91	99.97	110.12
1	ku	170	LYS	CA-C-N	6.91	130.22	120.28
1	ku	170	LYS	C-N-CA	6.91	130.22	120.28
1	l3	70	LYS	CA-C-N	6.91	129.83	120.44
1	l3	70	LYS	C-N-CA	6.91	129.83	120.44
1	lu	195	ASN	CA-CB-CG	6.91	119.50	112.60
1	2b	153	ILE	CA-C-O	-6.91	113.53	120.85
1	2u	36	VAL	CA-C-N	6.91	124.59	120.24
1	2u	36	VAL	C-N-CA	6.91	124.59	120.24
1	3p	158	LYS	N-CA-C	6.91	118.89	111.36
1	3t	18	ARG	CA-C-N	6.91	129.42	120.44
1	3t	18	ARG	C-N-CA	6.91	129.42	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3B	84	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	3O	67	GLN	OE1-CD-NE2	-6.91	115.69	122.60
1	3Q	138	LEU	CA-C-N	6.91	129.53	120.28
1	3Q	138	LEU	C-N-CA	6.91	129.53	120.28
1	4g	186	THR	CA-CB-OG1	6.91	119.96	109.60
1	4C	201	ILE	CA-C-N	6.91	129.42	120.44
1	4C	201	ILE	C-N-CA	6.91	129.42	120.44
1	53	7	GLN	OE1-CD-NE2	-6.91	115.69	122.60
1	5c	126	VAL	CA-C-N	6.91	127.60	120.00
1	5c	126	VAL	C-N-CA	6.91	127.60	120.00
1	5y	82	ARG	CA-C-N	6.91	130.09	120.29
1	5y	82	ARG	C-N-CA	6.91	130.09	120.29
1	5H	57	ASN	CA-CB-CG	-6.91	105.69	112.60
1	5X	105	ALA	CA-C-N	-6.91	111.45	121.26
1	5X	105	ALA	C-N-CA	-6.91	111.45	121.26
1	5X	178	SER	N-CA-C	6.91	119.22	110.24
1	6b	133	TRP	CA-C-O	6.91	127.87	120.55
1	6i	161	PHE	CA-CB-CG	-6.91	106.89	113.80
1	6z	80	TRP	CA-CB-CG	6.91	126.72	113.60
1	6N	65	ALA	N-CA-C	6.91	119.44	111.02
1	7m	190	LEU	CA-C-N	6.91	129.92	120.46
1	7m	190	LEU	C-N-CA	6.91	129.92	120.46
1	7A	52	LEU	CA-C-N	6.91	129.53	120.28
1	7A	52	LEU	C-N-CA	6.91	129.53	120.28
1	8e	187	GLU	CA-C-O	6.91	128.43	120.00
1	8k	39	MET	N-CA-C	6.91	118.81	111.28
1	8o	207	PRO	N-CA-C	6.91	123.13	113.53
1	8y	73	ILE	O-C-N	-6.91	115.17	121.87
1	8P	65	ALA	CA-C-N	6.91	129.42	120.44
1	8P	65	ALA	C-N-CA	6.91	129.42	120.44
1	8T	189	LEU	CA-C-O	6.91	127.91	119.97
1	93	166	ASP	CA-CB-CG	6.91	119.51	112.60
1	au	167	ARG	CA-C-N	6.91	129.53	120.28
1	au	167	ARG	C-N-CA	6.91	129.53	120.28
1	aL	58	THR	CA-C-O	6.91	127.87	119.31
1	aQ	113	GLU	O-C-N	-6.91	114.96	122.07
1	aX	18	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	aZ	139	ASN	O-C-N	-6.91	114.80	122.12
1	17	7	GLN	O-C-N	-6.91	114.03	122.25
1	18	116	GLY	CA-C-N	6.91	129.83	120.44
1	18	116	GLY	C-N-CA	6.91	129.83	120.44
1	18	154	ARG	NE-CZ-NH1	-6.91	114.59	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bQ	71	GLU	N-CA-CB	6.91	120.98	110.28
1	bW	129	ILE	O-C-N	-6.91	115.17	121.87
1	cB	193	ASN	CA-CB-CG	-6.91	105.69	112.60
1	d1	111	LEU	CA-C-N	6.91	129.86	120.54
1	d1	111	LEU	C-N-CA	6.91	129.86	120.54
1	1j	81	ASP	N-CA-C	6.91	118.81	111.28
1	dt	138	LEU	O-C-N	-6.91	114.63	122.09
1	e9	161	PHE	N-CA-C	6.91	118.46	111.07
1	ef	34	PRO	N-CA-C	6.91	122.49	114.20
1	eu	84	HIS	CE1-NE2-CD2	-6.91	102.09	109.00
1	eN	153	ILE	N-CA-C	6.91	123.70	109.34
1	fm	181	VAL	CB-CA-C	-6.91	102.82	112.14
1	fw	51	ASP	N-CA-C	6.91	118.81	111.28
1	fB	143	ARG	NE-CZ-NH2	-6.91	112.98	119.20
1	fY	106	GLY	CA-C-N	6.91	129.86	120.54
1	fY	106	GLY	C-N-CA	6.91	129.86	120.54
1	n	132	ARG	CA-C-N	6.91	129.42	120.44
1	n	132	ARG	C-N-CA	6.91	129.42	120.44
1	D	136	LEU	CA-C-N	6.91	127.47	119.94
1	D	136	LEU	C-N-CA	6.91	127.47	119.94
1	L	33	SER	O-C-N	-6.91	114.95	121.72
1	gp	17	PRO	CA-C-N	6.90	129.53	120.28
1	gp	17	PRO	C-N-CA	6.90	129.53	120.28
1	hG	136	LEU	CA-C-N	6.90	127.79	119.99
1	hG	136	LEU	C-N-CA	6.90	127.79	119.99
1	ig	191	VAL	CA-C-N	6.90	129.53	120.28
1	ig	191	VAL	C-N-CA	6.90	129.53	120.28
1	jj	53	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	jC	204	ALA	CA-C-O	6.90	127.91	119.97
1	kp	12	HIS	ND1-CE1-NE2	6.90	115.30	108.40
1	ky	85	PRO	N-CA-C	6.90	122.09	111.11
1	2i	88	ALA	N-CA-C	6.90	118.90	110.41
1	2H	15	ILE	CA-CB-CG1	6.90	122.14	110.40
1	3A	31	ALA	CA-C-O	6.90	127.87	120.55
1	3D	63	GLN	N-CA-C	6.90	118.89	111.36
1	3X	39	MET	O-C-N	-6.90	114.28	122.15
1	42	95	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	4o	20	LEU	N-CA-C	6.90	119.44	111.02
1	4J	43	LEU	O-C-N	-6.90	113.53	122.37
1	5N	180	GLU	N-CA-C	6.90	118.89	111.36
1	5O	80	TRP	CA-C-N	6.90	129.84	120.38
1	5O	80	TRP	C-N-CA	6.90	129.84	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6k	121	ASN	N-CA-CB	6.90	121.68	109.94
1	6r	200	THR	N-CA-C	6.90	119.39	111.11
1	6x	90	PRO	CA-C-N	6.90	129.51	120.60
1	6x	90	PRO	C-N-CA	6.90	129.51	120.60
1	6M	112	GLN	N-CA-C	6.90	118.81	111.28
1	7n	21	ASN	CA-CB-CG	6.90	119.50	112.60
1	8b	204	ALA	CA-C-N	6.90	130.09	120.29
1	8b	204	ALA	C-N-CA	6.90	130.09	120.29
1	9C	88	ALA	N-CA-C	6.90	121.45	112.89
1	a6	13	GLN	CA-C-N	6.90	130.63	120.90
1	a6	13	GLN	C-N-CA	6.90	130.63	120.90
1	ao	128	GLU	CA-C-N	6.90	129.51	120.60
1	ao	128	GLU	C-N-CA	6.90	129.51	120.60
1	b9	229	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	17	167	ARG	NE-CZ-NH2	-6.90	112.99	119.20
1	cj	229	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	cs	177	ALA	N-CA-C	6.90	119.74	110.35
1	cJ	185	MET	CA-C-O	6.90	127.81	120.70
1	dJ	113	GLU	CA-C-N	6.90	129.41	120.44
1	dJ	113	GLU	C-N-CA	6.90	129.41	120.44
1	dO	17	PRO	N-CA-C	-6.90	105.23	113.86
1	fw	82	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	fR	62	HIS	O-C-N	-6.90	114.69	122.91
1	J	163	ASP	CA-CB-CG	6.90	119.50	112.60
1	gA	76	GLU	CA-C-N	6.90	129.41	120.44
1	gA	76	GLU	C-N-CA	6.90	129.41	120.44
1	hv	66	MET	N-CA-C	6.90	118.80	111.28
1	is	141	ILE	O-C-N	-6.90	115.17	121.87
1	iy	36	VAL	CA-C-N	6.90	124.59	120.24
1	iy	36	VAL	C-N-CA	6.90	124.59	120.24
1	1R	121	ASN	CA-CB-CG	6.90	119.50	112.60
1	iR	219	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	1S	224	PRO	CA-C-N	6.90	127.35	120.31
1	1S	224	PRO	C-N-CA	6.90	127.35	120.31
1	iT	57	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	ki	50	GLN	CA-C-N	6.90	129.53	120.28
1	ki	50	GLN	C-N-CA	6.90	129.53	120.28
1	kl	110	THR	N-CA-CB	6.90	120.94	110.45
1	kL	184	TRP	CB-CG-CD1	-6.90	116.55	126.90
1	kN	71	GLU	CA-C-O	6.90	127.90	120.10
1	kX	50	GLN	CA-C-N	6.90	129.83	120.44
1	kX	50	GLN	C-N-CA	6.90	129.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l6	143	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	lf	62	HIS	CA-C-N	6.90	130.22	120.28
1	lf	62	HIS	C-N-CA	6.90	130.22	120.28
1	2r	135	ILE	N-CA-C	6.90	117.05	110.42
1	2C	230	VAL	CA-C-O	-6.90	113.63	121.98
1	2Z	165	VAL	N-CA-C	6.90	117.61	110.36
1	3l	81	ASP	CA-CB-CG	-6.90	105.70	112.60
1	3p	100	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	3M	226	HIS	CA-CB-CG	6.90	120.70	113.80
1	3O	65	ALA	O-C-N	-6.90	114.80	122.12
1	4t	97	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	4H	84	HIS	CA-CB-CG	-6.90	106.90	113.80
1	4Y	63	GLN	N-CA-C	6.90	119.83	111.82
1	51	81	ASP	CA-C-O	6.90	127.87	119.31
1	5g	26	VAL	CA-CB-CG1	6.90	122.14	110.40
1	6d	181	VAL	CA-C-N	6.90	129.41	120.44
1	6d	181	VAL	C-N-CA	6.90	129.41	120.44
1	6H	120	HIS	CA-CB-CG	-6.90	106.90	113.80
1	71	100	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	7e	12	HIS	CB-CG-CD2	-6.90	122.23	131.20
1	87	20	LEU	N-CA-C	6.90	118.80	111.28
1	8E	164	TYR	CA-C-N	6.90	129.33	120.70
1	8E	164	TYR	C-N-CA	6.90	129.33	120.70
1	8N	102	SER	CA-C-N	6.90	129.41	120.44
1	8N	102	SER	C-N-CA	6.90	129.41	120.44
1	99	24	VAL	N-CA-C	6.90	117.61	110.36
1	9r	16	SER	N-CA-C	6.90	118.41	109.64
1	9P	47	ALA	CB-CA-C	6.90	121.45	109.65
1	9R	53	ASN	O-C-N	-6.90	114.80	122.12
1	a1	7	GLN	CA-C-O	6.90	128.03	120.71
1	ae	62	HIS	ND1-CE1-NE2	6.90	115.30	108.40
1	ah	115	ILE	O-C-N	-6.90	115.17	121.87
1	aQ	191	VAL	N-CA-C	6.90	117.02	110.53
1	aR	84	HIS	CG-CD2-NE2	6.90	114.10	107.20
1	aU	204	ALA	CA-C-N	6.90	129.84	120.38
1	aU	204	ALA	C-N-CA	6.90	129.84	120.38
1	bC	229	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	bT	157	PRO	CA-C-O	-6.90	109.19	119.34
1	bW	137	GLY	N-CA-C	6.90	121.01	112.73
1	bY	44	SER	CA-C-O	6.90	128.09	119.95
1	ck	101	GLY	N-CA-C	6.90	120.51	112.50
1	cw	84	HIS	CB-CG-CD2	-6.90	122.23	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cy	176	GLN	CA-C-N	6.90	130.63	120.90
1	cy	176	GLN	C-N-CA	6.90	130.63	120.90
1	cz	12	HIS	CG-CD2-NE2	6.90	114.10	107.20
1	cK	32	PHE	CA-CB-CG	-6.90	106.90	113.80
1	cK	214	MET	CA-C-N	6.90	131.74	120.63
1	cK	214	MET	C-N-CA	6.90	131.74	120.63
1	1h	166	ASP	CA-C-O	6.90	127.74	120.42
1	d2	24	VAL	N-CA-CB	6.90	119.10	110.47
1	dR	188	THR	CA-C-N	6.90	129.84	120.38
1	dR	188	THR	C-N-CA	6.90	129.84	120.38
1	dZ	77	ALA	CA-C-O	6.90	127.87	120.55
1	ei	178	SER	N-CA-C	6.90	119.23	110.33
1	ek	41	SER	O-C-N	-6.90	114.80	122.12
1	em	50	GLN	N-CA-C	6.90	118.88	111.36
1	fa	23	TRP	CB-CG-CD1	-6.90	116.55	126.90
1	g2	229	ARG	CD-NE-CZ	-6.90	114.74	124.40
1	3	119	THR	CA-C-N	6.90	132.85	121.39
1	3	119	THR	C-N-CA	6.90	132.85	121.39
1	J	67	GLN	CA-C-N	6.90	129.41	120.44
1	J	67	GLN	C-N-CA	6.90	129.41	120.44
1	J	74	ASN	CA-CB-CG	6.90	119.50	112.60
1	K	169	TYR	N-CA-C	6.90	119.83	111.82
1	gE	133	TRP	N-CA-C	6.90	118.45	111.07
1	gX	66	MET	CB-CA-C	6.90	122.58	110.85
1	h0	84	HIS	O-C-N	-6.90	114.76	121.18
1	h1	70	LYS	CA-C-O	-6.90	113.23	120.55
1	hj	40	PHE	CA-CB-CG	-6.90	106.90	113.80
1	1J	30	LYS	CA-C-N	6.90	134.72	121.54
1	1J	30	LYS	C-N-CA	6.90	134.72	121.54
1	hy	21	ASN	CB-CA-C	6.90	122.25	110.79
1	ib	230	VAL	N-CA-CB	6.90	121.72	110.13
1	1O	33	SER	O-C-N	-6.90	116.98	121.88
1	iq	141	ILE	CA-C-N	6.90	129.50	120.60
1	iq	141	ILE	C-N-CA	6.90	129.50	120.60
1	iI	114	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	jS	203	LYS	N-CA-C	6.90	119.64	111.71
1	kl	120	HIS	O-C-N	-6.90	114.92	122.79
1	kp	2	ILE	CB-CA-C	6.90	119.47	110.91
1	26	185	MET	CA-C-N	6.90	130.22	120.28
1	26	185	MET	C-N-CA	6.90	130.22	120.28
1	lj	15	ILE	CA-C-O	-6.90	113.85	121.23
1	ly	162	ARG	N-CA-C	6.90	119.64	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	195	ASN	O-C-N	-6.90	115.16	121.30
1	32	98	GLU	CA-C-N	6.90	128.72	120.23
1	32	98	GLU	C-N-CA	6.90	128.72	120.23
1	3h	52	LEU	CA-C-N	6.90	129.82	120.44
1	3h	52	LEU	C-N-CA	6.90	129.82	120.44
1	3z	62	HIS	CA-CB-CG	-6.90	106.90	113.80
1	58	48	THR	CA-C-O	-6.90	113.15	120.88
1	5S	183	ASN	CA-CB-CG	-6.90	105.70	112.60
1	5S	223	GLY	O-C-N	6.90	128.67	121.77
1	5W	180	GLU	N-CA-C	6.90	118.45	111.07
1	60	21	ASN	CA-CB-CG	6.90	119.50	112.60
1	6C	62	HIS	N-CA-C	6.90	120.68	111.30
1	6W	139	ASN	O-C-N	-6.90	114.91	122.09
1	73	204	ALA	O-C-N	-6.90	114.91	122.09
1	7g	79	GLU	CA-C-N	6.90	129.53	120.28
1	7g	79	GLU	C-N-CA	6.90	129.53	120.28
1	89	171	THR	CA-C-N	6.90	129.53	120.28
1	89	171	THR	C-N-CA	6.90	129.53	120.28
1	8r	68	MET	CA-C-N	6.90	129.53	120.28
1	8r	68	MET	C-N-CA	6.90	129.53	120.28
1	8s	63	GLN	N-CA-C	6.90	118.45	111.07
1	8M	102	SER	CA-C-O	6.90	127.86	120.55
1	9c	196	PRO	O-C-N	-6.90	113.32	122.22
1	9d	188	THR	CA-C-N	6.90	129.53	120.28
1	9d	188	THR	C-N-CA	6.90	129.53	120.28
1	9g	124	ILE	O-C-N	-6.90	113.48	121.07
1	9B	112	GLN	N-CA-C	6.90	118.80	111.28
1	9J	175	GLU	CA-C-N	6.90	131.92	122.19
1	9J	175	GLU	C-N-CA	6.90	131.92	122.19
1	a1	162	ARG	NE-CZ-NH2	-6.90	112.99	119.20
1	b5	120	HIS	CE1-NE2-CD2	-6.90	102.10	109.00
1	bx	71	GLU	CA-C-O	6.90	128.25	121.00
1	bU	76	GLU	N-CA-CB	6.90	120.37	110.16
1	bU	91	ILE	O-C-N	-6.90	115.93	123.18
1	d7	228	ALA	O-C-N	-6.90	113.41	122.59
1	dM	78	ALA	N-CA-C	6.90	118.80	111.28
1	e2	82	ARG	NE-CZ-NH2	-6.90	112.99	119.20
1	eO	113	GLU	O-C-N	-6.90	114.96	122.07
1	eX	193	ASN	CA-C-O	6.90	127.63	119.56
1	eX	206	GLY	O-C-N	-6.90	114.87	121.77
1	1x	88	ALA	N-CA-C	6.90	119.74	110.35
1	fJ	76	GLU	CA-C-N	6.90	129.53	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fJ	76	GLU	C-N-CA	6.90	129.53	120.28
1	fU	12	HIS	CE1-NE2-CD2	-6.90	102.10	109.00
1	fV	179	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	R	160	PRO	N-CA-CB	6.90	109.48	103.27
1	R	225	GLY	N-CA-C	6.90	126.94	112.45
1	gi	219	GLN	N-CA-CB	6.90	120.78	110.29
1	1D	64	ALA	O-C-N	-6.90	113.26	122.23
1	h0	40	PHE	O-C-N	-6.90	114.64	122.09
1	hw	55	MET	O-C-N	-6.90	114.34	122.20
1	i1	83	LEU	CA-C-O	6.90	128.28	120.90
1	ig	132	ARG	CA-C-O	6.90	127.73	120.42
1	jg	56	LEU	CA-C-O	6.90	127.86	120.55
1	jk	229	ARG	CA-C-N	6.90	129.81	120.63
1	jk	229	ARG	C-N-CA	6.90	129.81	120.63
1	jq	18	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	21	16	SER	CA-C-O	-6.90	114.22	119.32
1	kT	21	ASN	N-CA-C	6.90	118.45	111.07
1	l0	133	TRP	CB-CG-CD2	-6.90	117.14	126.80
1	lg	97	ARG	CA-C-O	-6.90	113.93	121.31
1	28	129	ILE	O-C-N	-6.90	115.15	121.91
1	28	153	ILE	O-C-N	-6.90	115.63	122.67
1	3m	114	GLN	O-C-N	-6.90	114.96	122.07
1	3n	192	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	3D	202	LEU	CA-C-N	6.90	129.53	120.28
1	3D	202	LEU	C-N-CA	6.90	129.53	120.28
1	4m	100	ARG	NE-CZ-NH2	-6.90	112.99	119.20
1	5k	97	ARG	NE-CZ-NH1	-6.90	114.60	121.50
1	8y	10	MET	CA-C-N	6.90	129.75	120.50
1	8y	10	MET	C-N-CA	6.90	129.75	120.50
1	8E	133	TRP	CA-C-N	6.90	129.91	120.46
1	8E	133	TRP	C-N-CA	6.90	129.91	120.46
1	8V	152	ASP	O-C-N	-6.90	114.29	122.15
1	9A	47	ALA	N-CA-C	6.90	120.24	109.96
1	Y	18	ARG	N-CA-C	6.90	118.80	111.28
1	9U	33	SER	CA-C-O	-6.90	114.15	120.50
1	9U	229	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	au	117	TRP	CA-C-N	6.90	130.22	120.28
1	au	117	TRP	C-N-CA	6.90	130.22	120.28
1	bi	105	ALA	N-CA-CB	-6.90	100.47	110.47
1	c7	33	SER	N-CA-C	-6.90	102.01	108.22
1	cH	36	VAL	O-C-N	6.90	128.65	121.89
1	d0	24	VAL	O-C-N	-6.90	115.15	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	166	ASP	N-CA-C	6.90	118.80	111.28
1	dE	153	ILE	O-C-N	-6.90	115.09	122.61
1	dP	141	ILE	O-C-N	-6.90	114.00	121.80
1	1q	149	SER	N-CA-CB	6.90	120.66	109.69
1	f4	68	MET	N-CA-C	6.90	118.45	111.07
1	fG	165	VAL	O-C-N	-6.90	115.18	121.87
1	1B	140	LYS	O-C-N	-6.90	114.96	122.07
1	N	165	VAL	N-CA-CB	6.90	119.92	110.54
1	gq	42	ALA	N-CA-C	6.90	118.80	111.28
1	gv	161	PHE	N-CA-C	6.90	119.68	111.33
1	hn	141	ILE	CA-C-N	6.90	129.25	120.56
1	hn	141	ILE	C-N-CA	6.90	129.25	120.56
1	hz	83	LEU	O-C-N	-6.90	114.97	122.07
1	hD	208	ALA	CA-C-N	6.90	130.50	120.71
1	hD	208	ALA	C-N-CA	6.90	130.50	120.71
1	ic	59	VAL	N-CA-C	6.90	117.66	110.62
1	il	92	GLU	N-CA-C	-6.90	102.01	108.22
1	ja	171	THR	CA-C-N	6.90	130.79	120.31
1	ja	171	THR	C-N-CA	6.90	130.79	120.31
1	kd	53	ASN	N-CA-CB	6.90	120.41	110.06
1	ko	140	LYS	N-CA-CB	6.90	120.01	110.01
1	kz	48	THR	CA-CB-OG1	6.90	119.95	109.60
1	kX	193	ASN	CA-C-N	6.90	131.16	120.75
1	kX	193	ASN	C-N-CA	6.90	131.16	120.75
1	l0	37	ILE	CA-C-O	-6.90	113.47	118.71
1	lq	159	GLU	O-C-N	-6.90	115.00	121.35
1	lI	77	ALA	CA-C-O	6.90	127.90	119.97
1	2j	65	ALA	N-CA-C	6.90	118.45	111.07
1	3g	104	ILE	N-CA-CB	6.90	118.62	110.55
1	3g	217	ALA	N-CA-C	6.90	118.89	110.41
1	3o	177	ALA	CA-C-N	6.90	132.53	120.87
1	3o	177	ALA	C-N-CA	6.90	132.53	120.87
1	3w	182	LYS	O-C-N	-6.90	114.15	122.22
1	3B	127	GLY	O-C-N	-6.90	115.56	122.18
1	3F	62	HIS	ND1-CG-CD2	6.90	113.00	106.10
1	3P	79	GLU	N-CA-CB	6.90	120.01	110.01
1	3R	135	ILE	N-CA-CB	6.90	118.62	110.55
1	44	57	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	4e	161	PHE	CA-CB-CG	6.90	120.70	113.80
1	4y	65	ALA	O-C-N	-6.90	114.81	122.12
1	4E	181	VAL	CA-C-N	6.90	129.41	120.44
1	4E	181	VAL	C-N-CA	6.90	129.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4H	140	LYS	CA-C-N	6.90	130.25	120.53
1	4H	140	LYS	C-N-CA	6.90	130.25	120.53
1	4U	18	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	4Z	142	VAL	CA-C-O	-6.90	113.02	120.47
1	5c	3	VAL	N-CA-CB	6.90	118.67	110.95
1	5t	229	ARG	CA-C-O	6.90	127.86	120.55
1	6F	112	GLN	OE1-CD-NE2	-6.90	115.70	122.60
1	7k	168	PHE	CA-CB-CG	-6.90	106.90	113.80
1	7o	193	ASN	N-CA-C	-6.90	104.44	112.92
1	7U	141	ILE	O-C-N	-6.90	115.15	121.91
1	8w	67	GLN	CA-C-N	6.90	129.41	120.44
1	8w	67	GLN	C-N-CA	6.90	129.41	120.44
1	8D	32	PHE	N-CA-C	6.90	120.65	110.30
1	8D	33	SER	O-C-N	-6.90	114.99	121.20
1	8Q	221	VAL	O-C-N	-6.90	115.07	122.45
1	9a	92	GLU	CA-C-N	6.90	128.46	119.84
1	9a	92	GLU	C-N-CA	6.90	128.46	119.84
1	9c	230	VAL	CA-C-N	6.90	134.12	121.70
1	9c	230	VAL	C-N-CA	6.90	134.12	121.70
1	9z	133	TRP	CB-CG-CD2	-6.90	117.14	126.80
1	9B	13	GLN	CB-CG-CD	6.90	124.33	112.60
1	a0	143	ARG	N-CA-C	6.90	118.80	111.28
1	ac	198	CYS	CA-C-N	6.90	129.52	120.28
1	ac	198	CYS	C-N-CA	6.90	129.52	120.28
1	aG	36	VAL	CA-C-N	6.90	124.59	120.24
1	aG	36	VAL	C-N-CA	6.90	124.59	120.24
1	aV	25	LYS	N-CA-C	6.90	119.82	111.82
1	b0	209	ALA	CA-C-N	6.90	133.52	120.97
1	b0	209	ALA	C-N-CA	6.90	133.52	120.97
1	bb	55	MET	CA-C-N	6.90	129.52	120.28
1	bb	55	MET	C-N-CA	6.90	129.52	120.28
1	by	178	SER	O-C-N	-6.90	114.33	122.81
1	bG	192	GLN	CA-C-O	6.90	127.86	119.38
1	cb	81	ASP	N-CA-C	6.90	118.45	111.07
1	cq	205	LEU	N-CA-C	6.90	118.45	111.07
1	cY	33	SER	CA-C-O	-6.90	112.90	120.69
1	dc	110	THR	CA-CB-OG1	6.90	119.94	109.60
1	dj	164	TYR	N-CA-C	6.90	119.39	111.11
1	dm	92	GLU	N-CA-C	6.90	118.40	109.64
1	1k	167	ARG	NE-CZ-NH1	6.90	128.40	121.50
1	dy	57	ASN	CA-C-N	6.90	131.64	120.60
1	dy	57	ASN	C-N-CA	6.90	131.64	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ei	66	MET	N-CA-C	6.90	118.80	111.28
1	ek	150	ILE	O-C-N	-6.90	114.91	121.87
1	el	98	GLU	N-CA-C	6.90	117.53	109.60
1	ep	44	SER	O-C-N	-6.90	114.27	122.27
1	eu	97	ARG	NE-CZ-NH2	6.90	125.41	119.20
1	eJ	87	HIS	CA-CB-CG	6.90	120.70	113.80
1	fs	26	VAL	CA-C-N	6.90	131.61	120.30
1	fs	26	VAL	C-N-CA	6.90	131.61	120.30
1	g2	173	ARG	NE-CZ-NH2	6.90	125.41	119.20
1	0	2	ILE	O-C-N	-6.90	113.87	122.97
1	2	87	HIS	CA-CB-CG	-6.90	106.90	113.80
1	gu	61	GLY	CA-C-O	-6.90	115.38	122.28
1	km	197	ASP	N-CA-C	6.90	118.45	111.07
1	kA	2	ILE	CB-CA-C	6.90	119.31	110.96
1	lO	146	SER	N-CA-C	6.90	117.53	109.60
1	2v	121	ASN	O-C-N	-6.90	112.80	121.70
1	4c	135	ILE	CA-C-N	6.90	129.83	120.38
1	4c	135	ILE	C-N-CA	6.90	129.83	120.38
1	4E	62	HIS	CA-C-N	6.90	129.82	120.44
1	4E	62	HIS	C-N-CA	6.90	129.82	120.44
1	4L	162	ARG	CA-C-N	6.90	129.41	120.44
1	4L	162	ARG	C-N-CA	6.90	129.41	120.44
1	5a	115	ILE	CA-C-N	6.90	127.78	119.99
1	5a	115	ILE	C-N-CA	6.90	127.78	119.99
1	5N	15	ILE	CA-C-O	6.90	128.61	121.23
1	6m	173	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	6G	171	THR	CA-C-N	6.90	130.08	120.29
1	6G	171	THR	C-N-CA	6.90	130.08	120.29
1	6I	12	HIS	CE1-NE2-CD2	-6.90	102.10	109.00
1	7M	50	GLN	N-CA-C	6.90	118.45	111.07
1	8p	167	ARG	NH1-CZ-NH2	-6.90	110.33	119.30
1	8B	101	GLY	CA-C-N	6.90	132.40	120.68
1	8B	101	GLY	C-N-CA	6.90	132.40	120.68
1	aF	20	LEU	N-CA-C	6.90	119.39	111.11
1	1d	12	HIS	ND1-CE1-NE2	6.90	115.30	108.40
1	ck	177	ALA	CA-C-N	6.90	130.50	120.71
1	ck	177	ALA	C-N-CA	6.90	130.50	120.71
1	cw	32	PHE	CA-CB-CG	-6.90	106.90	113.80
1	1i	41	SER	N-CA-C	6.90	118.45	111.07
1	fw	126	VAL	CA-C-N	6.90	127.64	119.98
1	fw	126	VAL	C-N-CA	6.90	127.64	119.98
1	fA	23	TRP	N-CA-C	6.90	118.45	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g7	2	ILE	N-CA-C	-6.90	97.16	107.37
1	p	215	MET	CA-C-N	6.90	129.41	120.44
1	p	215	MET	C-N-CA	6.90	129.41	120.44
1	r	207	PRO	O-C-N	-6.90	114.23	122.99
1	s	36	VAL	N-CA-C	6.90	117.65	110.62
1	gj	5	ASN	N-CA-CB	6.89	122.58	111.20
1	gl	226	HIS	ND1-CE1-NE2	6.89	115.29	108.40
1	hp	31	ALA	N-CA-C	6.89	125.49	110.80
1	hx	42	ALA	O-C-N	6.89	129.43	122.12
1	ia	113	GLU	CA-C-N	6.89	129.40	120.44
1	ia	113	GLU	C-N-CA	6.89	129.40	120.44
1	iM	219	GLN	O-C-N	-6.89	115.36	123.22
1	1S	100	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	iY	213	GLU	O-C-N	-6.89	114.81	122.12
1	jh	199	LYS	N-CA-C	6.89	118.87	111.36
1	jj	148	THR	CA-CB-OG1	6.89	119.94	109.60
1	jr	71	GLU	CA-C-O	-6.89	113.60	120.70
1	jU	154	ARG	NE-CZ-NH2	-6.89	112.99	119.20
1	k4	119	THR	O-C-N	-6.89	113.78	122.26
1	ks	84	HIS	CA-C-O	-6.89	110.85	119.54
1	lG	226	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
1	lN	139	ASN	CA-C-N	6.89	129.40	120.44
1	lN	139	ASN	C-N-CA	6.89	129.40	120.44
1	2O	5	ASN	O-C-N	-6.89	113.42	122.59
1	2W	114	GLN	N-CA-C	6.89	119.67	111.33
1	3E	100	ARG	CA-C-O	-6.89	113.67	121.81
1	3O	169	TYR	N-CA-C	6.89	118.45	111.07
1	46	178	SER	O-C-N	-6.89	114.00	122.82
1	4k	131	LYS	CA-C-N	6.89	129.85	120.54
1	4k	131	LYS	C-N-CA	6.89	129.85	120.54
1	4B	167	ARG	NH1-CZ-NH2	-6.89	110.34	119.30
1	4N	162	ARG	NH1-CZ-NH2	-6.89	110.34	119.30
1	54	76	GLU	CA-C-N	6.89	129.82	120.44
1	54	76	GLU	C-N-CA	6.89	129.82	120.44
1	5C	35	GLU	N-CA-C	-6.89	104.34	112.89
1	5C	135	ILE	CA-C-N	6.89	130.08	120.29
1	5C	135	ILE	C-N-CA	6.89	130.08	120.29
1	5Q	15	ILE	N-CA-C	6.89	119.37	109.51
1	5V	47	ALA	N-CA-C	6.89	120.37	110.10
1	62	162	ARG	N-CA-C	6.89	119.67	111.33
1	6l	26	VAL	N-CA-C	6.89	117.65	110.62
1	6z	214	MET	N-CA-C	-6.89	105.02	113.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	112	GLN	OE1-CD-NE2	-6.89	115.70	122.60
1	6K	111	LEU	N-CA-C	6.89	119.43	111.02
1	6N	114	GLN	CA-C-N	6.89	129.91	120.46
1	6N	114	GLN	C-N-CA	6.89	129.91	120.46
1	6O	29	GLU	N-CA-C	6.89	120.17	111.69
1	6W	42	ALA	N-CA-CB	-6.89	99.68	110.30
1	70	42	ALA	N-CA-C	6.89	118.80	111.28
1	7d	171	THR	CA-CB-OG1	-6.89	99.26	109.60
1	7A	89	GLY	CA-C-N	6.89	128.46	119.84
1	7A	89	GLY	C-N-CA	6.89	128.46	119.84
1	7Y	190	LEU	N-CA-C	6.89	118.45	111.07
1	8Z	130	TYR	CA-C-N	6.89	130.37	120.79
1	8Z	130	TYR	C-N-CA	6.89	130.37	120.79
1	9b	119	THR	CA-C-N	6.89	130.96	120.82
1	9b	119	THR	C-N-CA	6.89	130.96	120.82
1	9b	188	THR	CA-C-N	6.89	129.85	120.54
1	9b	188	THR	C-N-CA	6.89	129.85	120.54
1	9i	141	ILE	O-C-N	-6.89	115.15	121.91
1	9C	139	ASN	CA-CB-CG	6.89	119.49	112.60
1	9K	58	THR	CA-C-N	6.89	130.84	120.77
1	9K	58	THR	C-N-CA	6.89	130.84	120.77
1	am	214	MET	N-CA-CB	6.89	120.26	110.12
1	aV	199	LYS	CA-C-O	6.89	127.86	120.55
1	b5	217	ALA	N-CA-C	6.89	119.46	110.43
1	bn	84	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
1	bv	53	ASN	O-C-N	-6.89	114.81	122.12
1	bO	124	ILE	O-C-N	-6.89	116.66	121.55
1	cl	186	THR	N-CA-CB	6.89	120.25	110.12
1	cE	174	ALA	O-C-N	-6.89	114.81	122.12
1	dj	28	GLU	N-CA-C	6.89	118.49	110.97
1	dD	189	LEU	N-CA-C	6.89	119.38	111.11
1	dU	82	ARG	NH1-CZ-NH2	-6.89	110.34	119.30
1	1p	162	ARG	CA-C-N	6.89	129.82	120.44
1	1p	162	ARG	C-N-CA	6.89	129.82	120.44
1	es	127	GLY	N-CA-C	6.89	120.50	112.50
1	eV	60	GLY	CA-C-N	6.89	128.32	120.53
1	eV	60	GLY	C-N-CA	6.89	128.32	120.53
1	fn	226	HIS	CA-CB-CG	6.89	120.69	113.80
1	fo	213	GLU	N-CA-C	6.89	118.80	111.28
1	fK	79	GLU	CA-C-O	6.89	128.06	120.82
1	g2	75	GLU	CA-C-N	6.89	130.08	120.29
1	g2	75	GLU	C-N-CA	6.89	130.08	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	195	ASN	CA-C-N	6.89	128.46	119.84
1	e	195	ASN	C-N-CA	6.89	128.46	119.84
1	R	229	ARG	NE-CZ-NH2	-6.89	112.99	119.20
1	S	156	GLY	CA-C-O	-6.89	115.77	122.46
1	gn	162	ARG	O-C-N	-6.89	114.92	122.09
1	gx	58	THR	N-CA-CB	6.89	120.36	110.16
1	gy	125	PRO	CA-C-N	6.89	129.90	120.46
1	gy	125	PRO	C-N-CA	6.89	129.90	120.46
1	gT	80	TRP	N-CA-C	6.89	118.79	111.28
1	hh	201	ILE	O-C-N	-6.89	114.73	121.83
1	hy	37	ILE	O-C-N	-6.89	116.01	120.42
1	hD	167	ARG	NH1-CZ-NH2	-6.89	110.34	119.30
1	hP	95	GLN	N-CA-C	6.89	118.45	111.07
1	iz	18	ARG	N-CA-C	6.89	118.79	111.28
1	iD	134	ILE	N-CA-CB	6.89	119.91	110.54
1	iN	217	ALA	CA-C-O	6.89	129.82	122.03
1	jg	13	GLN	CA-C-N	6.89	130.66	120.87
1	jg	13	GLN	C-N-CA	6.89	130.66	120.87
1	jl	164	TYR	CA-C-N	6.89	129.90	120.46
1	jl	164	TYR	C-N-CA	6.89	129.90	120.46
1	jo	111	LEU	CA-C-N	6.89	130.20	120.28
1	jo	111	LEU	C-N-CA	6.89	130.20	120.28
1	jp	33	SER	N-CA-CB	6.89	118.34	111.10
1	js	219	GLN	CB-CG-CD	6.89	124.32	112.60
1	kS	162	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	kX	57	ASN	CB-CG-OD1	-6.89	107.01	120.80
1	l9	97	ARG	O-C-N	-6.89	114.39	122.87
1	lo	21	ASN	CA-C-N	6.89	129.52	120.28
1	lo	21	ASN	C-N-CA	6.89	129.52	120.28
1	lp	146	SER	O-C-N	6.89	129.15	121.43
1	lv	112	GLN	N-CA-C	6.89	118.79	111.28
1	lQ	194	ALA	N-CA-C	6.89	118.89	110.41
1	2i	200	THR	CA-C-N	6.89	129.24	120.56
1	2i	200	THR	C-N-CA	6.89	129.24	120.56
1	2s	226	HIS	CG-CD2-NE2	6.89	114.09	107.20
1	36	122	PRO	CA-C-N	6.89	126.92	119.89
1	36	122	PRO	C-N-CA	6.89	126.92	119.89
1	3v	134	ILE	CA-C-O	-6.89	113.78	120.95
1	3z	130	TYR	CA-C-O	6.89	127.86	120.55
1	3A	164	TYR	N-CA-C	6.89	118.79	111.28
1	4e	132	ARG	CA-C-O	6.89	127.86	120.55
1	4H	11	VAL	CA-C-O	-6.89	114.81	121.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	212	GLU	CA-C-N	6.89	129.52	120.28
1	5f	212	GLU	C-N-CA	6.89	129.52	120.28
1	5i	74	ASN	CA-C-O	-6.89	113.58	120.82
1	5n	183	ASN	OD1-CG-ND2	-6.89	115.71	122.60
1	5W	170	LYS	CA-C-N	6.89	129.40	120.44
1	5W	170	LYS	C-N-CA	6.89	129.40	120.44
1	6J	183	ASN	CA-CB-CG	-6.89	105.71	112.60
1	7m	105	ALA	N-CA-C	6.89	118.79	111.28
1	7y	81	ASP	CA-C-O	6.89	128.07	120.63
1	87	165	VAL	CA-CB-CG1	6.89	122.12	110.40
1	8k	167	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	8B	175	GLU	N-CA-C	6.89	121.44	112.89
1	91	73	ILE	N-CA-C	6.89	117.04	110.42
1	95	130	TYR	CB-CG-CD2	-6.89	110.46	120.80
1	98	18	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	9h	110	THR	CA-CB-CG2	-6.89	98.78	110.50
1	9w	87	HIS	ND1-CE1-NE2	6.89	115.29	108.40
1	10	83	LEU	N-CA-C	6.89	118.87	111.36
1	ao	135	ILE	O-C-N	-6.89	115.19	121.87
1	aA	124	ILE	N-CA-C	-6.89	101.33	108.15
1	aP	200	THR	CA-C-N	6.89	130.21	120.42
1	aP	200	THR	C-N-CA	6.89	130.21	120.42
1	aQ	50	GLN	CA-C-N	6.89	129.40	120.44
1	aQ	50	GLN	C-N-CA	6.89	129.40	120.44
1	aS	21	ASN	N-CA-C	6.89	118.79	111.28
1	co	126	VAL	CA-C-N	6.89	127.63	119.98
1	co	126	VAL	C-N-CA	6.89	127.63	119.98
1	cT	190	LEU	N-CA-C	6.89	118.79	111.28
1	1j	71	GLU	O-C-N	-6.89	114.16	122.22
1	do	30	LYS	N-CA-CB	-6.89	101.88	110.98
1	dp	103	ASP	CA-C-N	6.89	130.25	120.53
1	dp	103	ASP	C-N-CA	6.89	130.25	120.53
1	dr	167	ARG	CA-C-N	6.89	129.40	120.44
1	dr	167	ARG	C-N-CA	6.89	129.40	120.44
1	dQ	168	PHE	N-CA-C	-6.89	103.70	111.14
1	e0	195	ASN	O-C-N	-6.89	114.20	121.30
1	1q	78	ALA	N-CA-C	6.89	118.44	111.07
1	ew	5	ASN	OD1-CG-ND2	-6.89	115.71	122.60
1	ex	26	VAL	N-CA-C	6.89	117.65	110.62
1	eJ	220	GLY	O-C-N	-6.89	115.56	122.18
1	eS	67	GLN	CA-C-N	6.89	129.52	120.28
1	eS	67	GLN	C-N-CA	6.89	129.52	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eU	210	THR	N-CA-CB	6.89	121.64	110.41
1	fg	125	PRO	N-CA-CB	6.89	107.74	102.36
1	fZ	92	GLU	N-CA-C	6.89	123.03	113.45
1	g6	122	PRO	CA-C-N	6.89	127.28	119.83
1	g6	122	PRO	C-N-CA	6.89	127.28	119.83
1	M	54	THR	O-C-N	-6.89	114.81	122.12
1	O	181	VAL	CB-CA-C	-6.89	102.71	112.22
1	S	58	THR	CA-C-N	6.89	134.38	121.97
1	S	58	THR	C-N-CA	6.89	134.38	121.97
1	1K	132	ARG	N-CA-C	6.89	119.81	111.82
1	iz	226	HIS	CG-CD2-NE2	6.89	114.09	107.20
1	jv	9	GLN	N-CA-C	6.89	120.64	110.30
1	km	7	GLN	CA-C-O	6.89	126.63	119.05
1	kw	132	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	kB	40	PHE	N-CA-C	6.89	119.67	111.33
1	kJ	91	ILE	CA-C-N	6.89	129.68	120.58
1	kJ	91	ILE	C-N-CA	6.89	129.68	120.58
1	27	107	THR	N-CA-C	-6.89	105.00	113.41
1	2c	51	ASP	N-CA-C	6.89	119.67	111.33
1	3b	39	MET	O-C-N	-6.89	114.92	122.09
1	3d	88	ALA	O-C-N	-6.89	113.39	122.42
1	4e	117	TRP	CB-CG-CD2	6.89	136.45	126.80
1	4z	99	PRO	CB-CA-C	6.89	117.67	111.40
1	5w	32	PHE	CA-C-N	6.89	131.14	120.60
1	5w	32	PHE	C-N-CA	6.89	131.14	120.60
1	5D	67	GLN	CA-C-N	6.89	130.07	120.29
1	5D	67	GLN	C-N-CA	6.89	130.07	120.29
1	5N	143	ARG	CA-C-N	6.89	129.81	120.44
1	5N	143	ARG	C-N-CA	6.89	129.81	120.44
1	6K	82	ARG	O-C-N	-6.89	114.29	122.15
1	6L	210	THR	O-C-N	-6.89	115.22	122.94
1	7y	81	ASP	O-C-N	-6.89	114.82	122.12
1	7W	134	ILE	CA-C-N	6.89	129.90	120.46
1	7W	134	ILE	C-N-CA	6.89	129.90	120.46
1	96	183	ASN	OD1-CG-ND2	-6.89	115.71	122.60
1	97	84	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
1	bb	54	THR	N-CA-CB	6.89	120.00	110.01
1	1d	133	TRP	CB-CG-CD2	-6.89	117.15	126.80
1	cC	27	VAL	CB-CA-C	-6.89	102.84	112.14
1	d2	92	GLU	O-C-N	-6.89	113.95	121.53
1	dW	37	ILE	N-CA-CB	6.89	114.84	110.50
1	1r	27	VAL	N-CA-C	6.89	117.65	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eJ	138	LEU	O-C-N	-6.89	114.97	122.07
1	fc	87	HIS	N-CA-C	6.89	120.22	110.50
1	fP	110	THR	N-CA-CB	6.89	120.21	110.36
1	fZ	191	VAL	N-CA-C	6.89	118.72	112.17
1	1C	21	ASN	N-CA-CB	-6.89	99.96	110.16
1	gs	98	GLU	CA-C-O	6.89	125.98	120.19
1	gw	144	MET	N-CA-C	6.89	118.44	111.07
1	gD	78	ALA	N-CA-C	6.89	118.87	111.36
1	hc	102	SER	CA-C-N	6.89	130.07	120.29
1	hc	102	SER	C-N-CA	6.89	130.07	120.29
1	hn	162	ARG	CA-C-N	6.89	130.07	120.29
1	hn	162	ARG	C-N-CA	6.89	130.07	120.29
1	hE	169	TYR	N-CA-C	6.89	118.87	111.36
1	i2	183	ASN	CA-CB-CG	6.89	119.49	112.60
1	i3	87	HIS	ND1-CE1-NE2	6.89	115.29	108.40
1	i4	113	GLU	N-CA-C	6.89	118.87	111.36
1	i6	139	ASN	OD1-CG-ND2	-6.89	115.71	122.60
1	iW	51	ASP	CA-C-N	6.89	129.51	120.28
1	iW	51	ASP	C-N-CA	6.89	129.51	120.28
1	1U	161	PHE	CA-C-N	6.89	132.15	121.19
1	1U	161	PHE	C-N-CA	6.89	132.15	121.19
1	jd	62	HIS	N-CA-C	6.89	120.88	111.17
1	jE	199	LYS	CA-C-N	6.89	129.51	120.28
1	jE	199	LYS	C-N-CA	6.89	129.51	120.28
1	jJ	149	SER	CA-C-N	6.89	129.90	120.46
1	jJ	149	SER	C-N-CA	6.89	129.90	120.46
1	jT	146	SER	CA-C-O	-6.89	112.91	119.80
1	jY	69	LEU	CA-C-N	6.89	129.51	120.28
1	jY	69	LEU	C-N-CA	6.89	129.51	120.28
1	k6	23	TRP	N-CA-C	6.89	119.38	111.11
1	ks	150	ILE	N-CA-C	6.89	117.68	110.72
1	kO	137	GLY	O-C-N	-6.89	115.58	122.19
1	kP	187	GLU	N-CA-C	6.89	118.79	111.28
1	l0	165	VAL	CA-C-N	6.89	129.40	120.44
1	l0	165	VAL	C-N-CA	6.89	129.40	120.44
1	26	67	GLN	CA-C-O	-6.89	113.60	120.70
1	lx	74	ASN	CA-CB-CG	-6.89	105.71	112.60
1	lN	130	TYR	N-CA-C	6.89	118.79	111.28
1	lR	167	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	2h	15	ILE	N-CA-CB	6.89	119.36	110.13
1	2q	98	GLU	O-C-N	-6.89	114.12	121.42
1	37	29	GLU	N-CA-C	6.89	118.44	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3q	162	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	3w	25	LYS	N-CA-C	6.89	118.44	111.07
1	3A	87	HIS	N-CA-C	-6.89	103.55	112.23
1	4Q	120	HIS	ND1-CE1-NE2	6.89	115.29	108.40
1	5g	216	THR	N-CA-CB	6.89	120.36	110.16
1	5Z	34	PRO	N-CA-C	-6.89	104.97	114.27
1	6c	163	ASP	CA-C-N	6.89	129.82	120.38
1	6c	163	ASP	C-N-CA	6.89	129.82	120.38
1	6t	119	THR	O-C-N	-6.89	113.88	122.35
1	6S	169	TYR	CA-C-O	6.89	127.85	119.31
1	73	152	ASP	N-CA-CB	6.89	120.25	110.12
1	78	148	THR	N-CA-CB	6.89	122.13	110.49
1	7a	229	ARG	O-C-N	-6.89	113.02	122.46
1	7j	57	ASN	CA-CB-CG	-6.89	105.71	112.60
1	7q	33	SER	O-C-N	-6.89	115.44	121.71
1	7R	82	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	87	66	MET	O-C-N	-6.89	114.82	122.12
1	8x	132	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	8B	29	GLU	CB-CG-CD	6.89	124.31	112.60
1	8Y	188	THR	CA-C-N	6.89	129.84	120.54
1	8Y	188	THR	C-N-CA	6.89	129.84	120.54
1	91	110	THR	CA-C-N	6.89	129.51	120.28
1	91	110	THR	C-N-CA	6.89	129.51	120.28
1	9m	60	GLY	CA-C-N	6.89	126.53	119.92
1	9m	60	GLY	C-N-CA	6.89	126.53	119.92
1	9w	28	GLU	N-CA-C	6.89	119.67	111.33
1	9B	171	THR	CA-C-N	6.89	130.20	120.28
1	9B	171	THR	C-N-CA	6.89	130.20	120.28
1	9R	121	ASN	OD1-CG-ND2	6.89	129.49	122.60
1	9X	192	GLN	O-C-N	-6.89	113.86	122.20
1	aa	204	ALA	N-CA-C	-6.89	103.83	111.82
1	aT	97	ARG	N-CA-C	-6.89	100.08	110.28
1	c7	163	ASP	CA-CB-CG	-6.89	105.71	112.60
1	cv	111	LEU	N-CA-C	6.89	119.38	111.11
1	cK	143	ARG	O-C-N	-6.89	114.97	122.07
1	dd	167	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	di	138	LEU	N-CA-C	6.89	118.44	111.07
1	dQ	71	GLU	CA-C-O	6.89	128.05	120.82
1	ea	121	ASN	CA-CB-CG	6.89	119.49	112.60
1	1r	110	THR	N-CA-CB	6.89	119.82	110.38
1	ex	167	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	eZ	21	ASN	O-C-N	-6.89	114.82	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	160	PRO	CA-C-N	6.89	129.40	120.44
1	f9	160	PRO	C-N-CA	6.89	129.40	120.44
1	fe	18	ARG	O-C-N	-6.89	114.97	122.07
1	fO	178	SER	CA-C-N	6.89	129.51	120.28
1	fO	178	SER	C-N-CA	6.89	129.51	120.28
1	g5	212	GLU	CA-C-O	6.89	127.85	120.55
1	1	169	TYR	N-CA-C	6.89	118.79	111.28
1	t	120	HIS	ND1-CE1-NE2	6.89	115.29	108.40
1	M	6	LEU	O-C-N	-6.89	114.82	122.12
1	V	42	ALA	N-CA-C	6.89	118.79	111.28
1	5	65	ALA	N-CA-C	6.89	119.38	111.11
1	h0	141	ILE	CA-C-N	6.89	129.24	120.56
1	h0	141	ILE	C-N-CA	6.89	129.24	120.56
1	h5	180	GLU	O-C-N	-6.89	114.97	122.07
1	hx	162	ARG	CB-CA-C	-6.89	99.36	110.79
1	iE	145	TYR	N-CA-C	6.89	119.63	111.71
1	j9	199	LYS	N-CA-C	6.89	118.44	111.07
1	jd	127	GLY	CA-C-N	6.89	129.40	120.44
1	jd	127	GLY	C-N-CA	6.89	129.40	120.44
1	kU	16	SER	N-CA-C	6.89	119.62	109.50
1	lI	197	ASP	O-C-N	-6.89	114.30	122.15
1	61	149	SER	CA-C-N	6.89	129.24	120.56
1	61	149	SER	C-N-CA	6.89	129.24	120.56
1	7z	136	LEU	O-C-N	-6.89	114.82	122.12
1	7Z	140	LYS	N-CA-CB	6.89	120.00	110.01
1	95	191	VAL	N-CA-C	-6.89	105.04	111.45
1	96	198	CYS	CA-C-O	6.89	127.72	120.42
1	9I	173	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	aa	107	THR	CB-CA-C	6.89	121.69	110.88
1	bQ	124	ILE	CA-C-O	-6.89	115.09	119.15
1	c2	141	ILE	N-CA-C	6.89	117.65	110.62
1	cc	57	ASN	CA-CB-CG	-6.89	105.71	112.60
1	cA	7	GLN	CA-C-O	6.89	127.41	119.35
1	cW	226	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
1	d2	207	PRO	N-CA-CB	6.89	110.12	103.51
1	d7	132	ARG	N-CA-C	6.89	118.79	111.28
1	dr	62	HIS	ND1-CG-CD2	6.89	112.99	106.10
1	dr	169	TYR	O-C-N	-6.89	113.80	122.27
1	e7	176	GLN	CA-C-N	6.89	130.95	120.82
1	e7	176	GLN	C-N-CA	6.89	130.95	120.82
1	et	132	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	fc	9	GLN	OE1-CD-NE2	6.89	129.49	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fw	226	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
1	g0	52	LEU	N-CA-C	6.89	119.81	111.82
1	1G	23	TRP	CA-C-O	-6.89	113.59	120.82
1	hc	203	LYS	N-CA-C	6.89	118.87	111.36
1	hR	142	VAL	N-CA-C	6.89	117.03	110.42
1	hT	70	LYS	N-CA-C	6.89	118.79	111.28
1	i5	178	SER	N-CA-C	6.89	119.45	110.43
1	ir	3	VAL	CA-CB-CG2	6.89	122.11	110.40
1	iS	179	GLN	OE1-CD-NE2	-6.89	115.71	122.60
1	j6	181	VAL	N-CA-CB	6.89	118.61	110.55
1	1U	140	LYS	N-CA-C	6.89	121.43	112.89
1	jf	221	VAL	N-CA-C	6.89	117.03	110.42
1	jm	125	PRO	N-CA-C	-6.89	98.29	112.47
1	k9	113	GLU	CA-C-N	6.89	129.51	120.28
1	k9	113	GLU	C-N-CA	6.89	129.51	120.28
1	kL	143	ARG	CA-C-N	6.89	129.51	120.28
1	kL	143	ARG	C-N-CA	6.89	129.51	120.28
1	l0	183	ASN	CA-CB-CG	-6.89	105.71	112.60
1	li	133	TRP	N-CA-C	6.89	118.79	111.28
1	ly	189	LEU	CA-C-N	6.89	129.39	120.44
1	ly	189	LEU	C-N-CA	6.89	129.39	120.44
1	29	166	ASP	N-CA-C	6.89	118.44	111.07
1	lJ	181	VAL	N-CA-C	6.89	117.03	110.42
1	2I	134	ILE	CA-C-O	-6.89	113.79	120.95
1	3o	9	GLN	CA-C-N	6.89	130.53	120.82
1	3o	9	GLN	C-N-CA	6.89	130.53	120.82
1	3o	214	MET	N-CA-C	6.89	118.79	111.28
1	4z	88	ALA	N-CA-C	6.89	119.07	109.15
1	4J	65	ALA	CA-C-O	6.89	128.05	120.82
1	56	130	TYR	CA-C-N	6.89	129.84	120.54
1	56	130	TYR	C-N-CA	6.89	129.84	120.54
1	59	167	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	5l	174	ALA	CA-C-O	6.89	127.85	120.55
1	6t	230	VAL	CA-C-N	6.89	134.09	121.70
1	6t	230	VAL	C-N-CA	6.89	134.09	121.70
1	6x	48	THR	N-CA-CB	6.89	117.73	109.74
1	81	143	ARG	NE-CZ-NH2	-6.89	113.00	119.20
1	84	201	ILE	CA-CB-CG2	6.89	122.21	110.50
1	8N	67	GLN	CA-C-N	6.89	129.51	120.28
1	8N	67	GLN	C-N-CA	6.89	129.51	120.28
1	9x	179	GLN	O-C-N	-6.89	114.82	122.12
1	a6	212	GLU	CA-C-N	6.89	129.51	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a6	212	GLU	C-N-CA	6.89	129.51	120.28
1	af	178	SER	CA-C-N	6.89	129.84	120.54
1	af	178	SER	C-N-CA	6.89	129.84	120.54
1	bW	32	PHE	CA-CB-CG	-6.89	106.91	113.80
1	cK	105	ALA	N-CA-C	-6.89	104.49	113.17
1	cW	121	ASN	CB-CA-C	6.89	117.59	109.47
1	d4	12	HIS	N-CA-C	6.89	120.47	110.28
1	dm	216	THR	CA-C-O	6.89	127.52	119.32
1	e7	65	ALA	N-CA-C	6.89	120.91	112.23
1	ek	126	VAL	N-CA-CB	6.89	118.61	110.55
1	eV	47	ALA	N-CA-C	6.89	120.36	110.10
1	fq	82	ARG	NE-CZ-NH1	6.89	128.39	121.50
1	fM	97	ARG	N-CA-C	6.89	119.99	110.35
1	c	125	PRO	N-CA-CB	6.89	107.76	102.73
1	f	62	HIS	CG-CD2-NE2	6.89	114.09	107.20
1	y	41	SER	N-CA-CB	-6.89	100.02	110.01
1	O	36	VAL	CA-C-N	6.89	125.84	120.33
1	O	36	VAL	C-N-CA	6.89	125.84	120.33
1	ge	229	ARG	NH1-CZ-NH2	-6.88	110.35	119.30
1	gE	121	ASN	CA-CB-CG	-6.88	105.72	112.60
1	h0	173	ARG	CA-C-N	6.88	129.39	120.44
1	h0	173	ARG	C-N-CA	6.88	129.39	120.44
1	h7	102	SER	O-C-N	-6.88	114.82	122.12
1	ho	13	GLN	CA-C-O	-6.88	113.06	121.11
1	hO	63	GLN	OE1-CD-NE2	6.88	129.48	122.60
1	i1	28	GLU	N-CA-CB	-6.88	100.00	110.12
1	ix	122	PRO	N-CA-CB	6.88	110.17	102.60
1	j5	183	ASN	CA-CB-CG	-6.88	105.72	112.60
1	jj	213	GLU	CA-C-N	6.88	129.50	120.28
1	jj	213	GLU	C-N-CA	6.88	129.50	120.28
1	jA	206	GLY	CA-C-N	6.88	128.44	119.84
1	jA	206	GLY	C-N-CA	6.88	128.44	119.84
1	jZ	90	PRO	N-CD-CG	6.88	113.53	103.20
1	kH	11	VAL	CA-C-O	6.88	127.66	120.36
1	kU	89	GLY	N-CA-C	6.88	120.26	112.00
1	l5	175	GLU	N-CA-C	6.88	120.94	112.54
1	l8	6	LEU	CA-C-O	6.88	127.89	119.97
1	lh	61	GLY	N-CA-C	6.88	119.85	111.93
1	lH	62	HIS	N-CA-C	6.88	121.41	111.56
1	lH	204	ALA	N-CA-C	6.88	118.78	111.28
1	2F	140	LYS	N-CA-C	6.88	118.78	111.28
1	2H	229	ARG	N-CA-C	6.88	119.71	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	67	GLN	CA-C-N	6.88	129.51	120.28
1	2S	67	GLN	C-N-CA	6.88	129.51	120.28
1	30	23	TRP	CB-CA-C	6.88	122.22	110.79
1	39	92	GLU	O-C-N	-6.88	113.40	121.32
1	3c	172	LEU	CA-C-N	6.88	129.39	120.44
1	3c	172	LEU	C-N-CA	6.88	129.39	120.44
1	3u	173	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	3E	209	ALA	N-CA-C	6.88	119.95	110.24
1	3L	5	ASN	O-C-N	-6.88	114.87	123.27
1	43	136	LEU	CA-C-N	6.88	127.58	119.94
1	43	136	LEU	C-N-CA	6.88	127.58	119.94
1	5o	94	GLY	CA-C-O	6.88	127.23	119.59
1	6c	35	GLU	N-CA-C	6.88	121.43	112.89
1	6r	63	GLN	N-CA-C	6.88	122.73	111.37
1	6K	189	LEU	N-CA-C	6.88	119.63	111.71
1	6O	62	HIS	CA-C-N	6.88	129.50	120.28
1	6O	62	HIS	C-N-CA	6.88	129.50	120.28
1	7l	181	VAL	O-C-N	-6.88	115.19	121.87
1	7m	60	GLY	CA-C-O	6.88	128.39	119.44
1	8r	28	GLU	CA-C-N	6.88	129.50	120.28
1	8r	28	GLU	C-N-CA	6.88	129.50	120.28
1	8v	18	ARG	NE-CZ-NH2	6.88	125.40	119.20
1	8E	40	PHE	CA-CB-CG	-6.88	106.92	113.80
1	8Q	102	SER	CA-C-O	6.88	127.88	120.24
1	9d	214	MET	N-CA-C	6.88	119.37	111.11
1	9l	33	SER	O-C-N	-6.88	113.96	121.53
1	aF	167	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	aL	226	HIS	N-CA-C	6.88	120.90	111.54
1	ba	202	LEU	N-CA-C	6.88	118.78	111.28
1	be	87	HIS	CG-CD2-NE2	6.88	114.08	107.20
1	bC	92	GLU	CA-C-N	6.88	128.45	119.84
1	bC	92	GLU	C-N-CA	6.88	128.45	119.84
1	bQ	32	PHE	CA-C-O	6.88	128.14	120.43
1	cP	222	GLY	CA-C-O	-6.88	115.43	122.59
1	dF	166	ASP	N-CA-C	6.88	118.44	111.07
1	dR	194	ALA	CA-C-N	6.88	130.68	120.83
1	dR	194	ALA	C-N-CA	6.88	130.68	120.83
1	e3	125	PRO	CA-C-N	6.88	129.89	120.46
1	e3	125	PRO	C-N-CA	6.88	129.89	120.46
1	ew	182	LYS	N-CA-C	6.88	118.86	111.36
1	eE	191	VAL	CA-C-N	6.88	129.50	120.28
1	eE	191	VAL	C-N-CA	6.88	129.50	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ff	85	PRO	CA-C-O	-6.88	113.46	121.86
1	fm	19	THR	O-C-N	-6.88	114.82	122.12
1	gs	76	GLU	N-CA-C	6.88	118.78	111.28
1	gB	133	TRP	CA-C-N	6.88	129.23	120.56
1	gB	133	TRP	C-N-CA	6.88	129.23	120.56
1	hl	136	LEU	N-CA-C	6.88	120.56	111.75
1	hX	55	MET	CA-C-N	6.88	130.06	120.29
1	hX	55	MET	C-N-CA	6.88	130.06	120.29
1	ia	88	ALA	N-CA-C	6.88	119.94	110.24
1	iy	202	LEU	N-CA-C	6.88	118.43	111.07
1	jd	77	ALA	CA-C-N	6.88	129.39	120.44
1	jd	77	ALA	C-N-CA	6.88	129.39	120.44
1	jF	199	LYS	N-CA-CB	6.88	120.24	110.12
1	jS	196	PRO	CA-C-N	6.88	130.36	120.79
1	jS	196	PRO	C-N-CA	6.88	130.36	120.79
1	ku	189	LEU	N-CA-C	6.88	118.78	111.28
1	kN	64	ALA	CA-C-O	6.88	127.72	120.42
1	kX	145	TYR	O-C-N	-6.88	113.31	122.19
1	lk	87	HIS	N-CA-C	6.88	119.62	110.53
1	2O	21	ASN	CA-C-N	6.88	130.06	120.29
1	2O	21	ASN	C-N-CA	6.88	130.06	120.29
1	3n	90	PRO	CA-C-N	6.88	129.92	120.35
1	3n	90	PRO	C-N-CA	6.88	129.92	120.35
1	4s	76	GLU	CA-C-N	6.88	129.50	120.28
1	4s	76	GLU	C-N-CA	6.88	129.50	120.28
1	4v	181	VAL	O-C-N	-6.88	114.74	121.83
1	4Q	167	ARG	N-CA-C	6.88	118.78	111.28
1	4U	149	SER	N-CA-CB	6.88	122.12	110.49
1	5n	122	PRO	CA-C-N	6.88	127.28	119.92
1	5n	122	PRO	C-N-CA	6.88	127.28	119.92
1	5D	112	GLN	CA-C-N	6.88	129.50	120.28
1	5D	112	GLN	C-N-CA	6.88	129.50	120.28
1	78	66	MET	N-CA-C	6.88	118.44	111.07
1	84	51	ASP	CA-C-O	6.88	127.85	120.55
1	8D	115	ILE	CB-CA-C	-6.88	102.85	112.14
1	8F	4	GLN	N-CA-C	6.88	119.66	111.33
1	bv	179	GLN	CA-C-N	6.88	129.39	120.44
1	bv	179	GLN	C-N-CA	6.88	129.39	120.44
1	bz	101	GLY	O-C-N	-6.88	114.94	122.24
1	bG	161	PHE	O-C-N	-6.88	114.82	122.12
1	cg	82	ARG	NE-CZ-NH2	-6.88	113.00	119.20
1	cw	132	ARG	N-CA-CB	6.88	119.99	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	126	VAL	N-CA-CB	6.88	119.90	110.54
1	eQ	204	ALA	CA-C-N	6.88	129.83	120.54
1	eQ	204	ALA	C-N-CA	6.88	129.83	120.54
1	1x	202	LEU	O-C-N	-6.88	114.98	122.07
1	1z	23	TRP	N-CA-CB	-6.88	100.03	110.01
1	1z	112	GLN	OE1-CD-NE2	-6.88	115.72	122.60
1	fR	40	PHE	CA-CB-CG	6.88	120.68	113.80
1	y	183	ASN	CA-CB-CG	-6.88	105.72	112.60
1	9	10	MET	O-C-N	-6.88	113.38	122.47
1	gq	3	VAL	O-C-N	-6.88	115.75	123.18
1	gv	97	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	gF	58	THR	N-CA-CB	6.88	121.81	110.39
1	gL	137	GLY	CA-C-N	6.88	129.50	120.28
1	gL	137	GLY	C-N-CA	6.88	129.50	120.28
1	gV	41	SER	CA-C-N	6.88	129.39	120.44
1	gV	41	SER	C-N-CA	6.88	129.39	120.44
1	hc	207	PRO	N-CA-C	-6.88	104.18	113.40
1	1K	226	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	hL	26	VAL	N-CA-C	6.88	117.03	110.42
1	hT	76	GLU	O-C-N	-6.88	113.81	122.27
1	ia	22	ALA	CA-C-N	6.88	129.39	120.44
1	ia	22	ALA	C-N-CA	6.88	129.39	120.44
1	iN	44	SER	N-CA-C	6.88	120.56	112.72
1	jf	15	ILE	CA-C-N	6.88	129.89	120.67
1	jf	15	ILE	C-N-CA	6.88	129.89	120.67
1	jt	4	GLN	OE1-CD-NE2	-6.88	115.72	122.60
1	jE	131	LYS	N-CA-C	6.88	118.78	111.28
1	k7	109	SER	N-CA-CB	6.88	121.65	110.43
1	kk	79	GLU	N-CA-C	6.88	119.66	111.33
1	kM	124	ILE	CB-CA-C	6.88	118.93	110.95
1	26	16	SER	CA-C-O	6.88	125.88	119.76
1	26	173	ARG	O-C-N	-6.88	114.83	122.12
1	lF	146	SER	O-C-N	-6.88	113.72	121.43
1	2b	79	GLU	CA-C-N	6.88	129.83	120.54
1	2b	79	GLU	C-N-CA	6.88	129.83	120.54
1	2C	77	ALA	CA-C-N	6.88	129.50	120.28
1	2C	77	ALA	C-N-CA	6.88	129.50	120.28
1	2Q	63	GLN	N-CA-C	6.88	118.78	111.28
1	3d	227	LYS	CA-C-N	6.88	134.68	121.54
1	3d	227	LYS	C-N-CA	6.88	134.68	121.54
1	3q	140	LYS	CA-C-N	6.88	129.89	120.46
1	3q	140	LYS	C-N-CA	6.88	129.89	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4a	9	GLN	OE1-CD-NE2	-6.88	115.72	122.60
1	58	150	ILE	N-CA-C	6.88	119.69	111.09
1	5e	70	LYS	N-CA-C	6.88	118.78	111.28
1	5r	24	VAL	N-CA-C	6.88	117.64	110.62
1	5D	156	GLY	O-C-N	-6.88	114.89	121.77
1	5P	117	TRP	O-C-N	-6.88	114.83	122.12
1	62	63	GLN	O-C-N	-6.88	113.81	122.27
1	70	116	GLY	CA-C-N	6.88	129.50	120.28
1	70	116	GLY	C-N-CA	6.88	129.50	120.28
1	72	159	GLU	CA-C-N	6.88	128.44	119.84
1	72	159	GLU	C-N-CA	6.88	128.44	119.84
1	7k	8	GLY	CA-C-O	6.88	129.75	122.59
1	7I	64	ALA	N-CA-C	6.88	119.80	111.82
1	7M	72	THR	CA-C-N	6.88	129.30	120.70
1	7M	72	THR	C-N-CA	6.88	129.30	120.70
1	8e	169	TYR	N-CA-C	6.88	118.43	111.07
1	8U	135	ILE	O-C-N	-6.88	115.15	121.89
1	8X	54	THR	O-C-N	-6.88	114.83	122.12
1	8Y	197	ASP	CA-CB-CG	6.88	119.48	112.60
1	9a	222	GLY	O-C-N	-6.88	115.96	123.05
1	9p	63	GLN	N-CA-C	6.88	118.43	111.07
1	ar	14	ALA	CA-C-N	6.88	130.80	120.75
1	ar	14	ALA	C-N-CA	6.88	130.80	120.75
1	aJ	142	VAL	N-CA-C	6.88	117.64	110.62
1	aO	194	ALA	N-CA-C	6.88	119.21	110.33
1	aP	84	HIS	ND1-CE1-NE2	6.88	115.28	108.40
1	bF	115	ILE	CA-C-N	6.88	127.58	119.94
1	bF	115	ILE	C-N-CA	6.88	127.58	119.94
1	1a	188	THR	O-C-N	-6.88	115.05	121.79
1	bP	67	GLN	O-C-N	-6.88	114.98	122.07
1	bV	132	ARG	N-CA-C	6.88	118.78	111.28
1	c7	103	ASP	CA-C-N	6.88	129.89	120.46
1	c7	103	ASP	C-N-CA	6.88	129.89	120.46
1	c8	78	ALA	N-CA-C	6.88	118.43	111.07
1	c9	219	GLN	CA-C-N	6.88	133.66	120.66
1	c9	219	GLN	C-N-CA	6.88	133.66	120.66
1	cb	74	ASN	OD1-CG-ND2	6.88	129.48	122.60
1	cD	68	MET	CG-SD-CE	-6.88	85.76	100.90
1	cK	198	CYS	O-C-N	6.88	129.25	122.09
1	cQ	213	GLU	N-CA-C	6.88	118.57	111.14
1	db	186	THR	O-C-N	-6.88	114.31	122.15
1	1l	158	LYS	O-C-N	-6.88	114.06	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	131	LYS	CA-C-O	-6.88	113.25	120.55
1	eC	172	LEU	O-C-N	-6.88	114.83	122.12
1	eS	172	LEU	CA-C-N	6.88	129.50	120.28
1	eS	172	LEU	C-N-CA	6.88	129.50	120.28
1	fi	177	ALA	N-CA-C	6.88	125.46	110.80
1	fv	229	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	fw	208	ALA	N-CA-C	-6.88	103.29	113.61
1	fy	159	GLU	N-CA-C	6.88	119.62	109.50
1	fW	166	ASP	CA-C-N	6.88	129.50	120.28
1	fW	166	ASP	C-N-CA	6.88	129.50	120.28
1	g5	53	ASN	N-CA-C	6.88	118.78	111.28
1	s	202	LEU	CA-C-N	6.88	129.38	120.44
1	s	202	LEU	C-N-CA	6.88	129.38	120.44
1	gM	180	GLU	N-CA-C	6.88	119.62	111.71
1	hY	18	ARG	CA-C-N	6.88	129.80	120.44
1	hY	18	ARG	C-N-CA	6.88	129.80	120.44
1	ik	21	ASN	N-CA-C	6.88	119.62	111.71
1	kw	199	LYS	O-C-N	-6.88	114.83	122.12
1	kP	229	ARG	NH1-CZ-NH2	-6.88	110.36	119.30
1	lf	6	LEU	N-CA-C	-6.88	104.08	113.30
1	lR	230	VAL	N-CA-C	6.88	119.35	109.51
1	38	37	ILE	N-CA-C	6.88	120.61	112.35
1	4c	207	PRO	CA-C-N	6.88	131.90	122.34
1	4c	207	PRO	C-N-CA	6.88	131.90	122.34
1	5B	179	GLN	CA-C-N	6.88	129.50	120.28
1	5B	179	GLN	C-N-CA	6.88	129.50	120.28
1	7i	223	GLY	CA-C-N	6.88	127.28	119.92
1	7i	223	GLY	C-N-CA	6.88	127.28	119.92
1	7t	148	THR	CA-C-N	6.88	130.60	120.90
1	7t	148	THR	C-N-CA	6.88	130.60	120.90
1	9V	126	VAL	CA-C-O	6.88	128.14	120.85
1	b6	223	GLY	O-C-N	6.88	128.65	121.77
1	bC	121	ASN	CA-CB-CG	-6.88	105.72	112.60
1	1i	199	LYS	CA-C-O	6.88	127.84	120.55
1	f3	58	THR	O-C-N	-6.88	114.36	122.20
1	1B	193	ASN	CA-C-O	6.88	127.92	119.11
1	a	117	TRP	N-CA-C	6.88	118.43	111.07
1	5	16	SER	N-CA-C	6.88	118.38	109.64
1	gf	113	GLU	O-C-N	-6.88	114.83	122.12
1	gr	2	ILE	N-CA-CB	6.88	120.05	110.56
1	hs	195	ASN	CA-C-N	6.88	126.58	119.56
1	hs	195	ASN	C-N-CA	6.88	126.58	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	173	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	hY	176	GLN	OE1-CD-NE2	6.88	129.48	122.60
1	1N	75	GLU	CA-C-N	6.88	129.38	120.44
1	1N	75	GLU	C-N-CA	6.88	129.38	120.44
1	iq	172	LEU	N-CA-C	6.88	118.78	111.28
1	iX	9	GLN	OE1-CD-NE2	-6.88	115.72	122.60
1	je	176	GLN	CA-C-N	6.88	134.68	121.54
1	je	176	GLN	C-N-CA	6.88	134.68	121.54
1	jO	179	GLN	CB-CA-C	6.88	121.68	110.88
1	kb	64	ALA	N-CA-C	6.88	118.78	111.28
1	kH	126	VAL	N-CA-C	6.88	117.64	110.62
1	ly	143	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	lB	160	PRO	CA-C-N	6.88	129.50	120.28
1	lB	160	PRO	C-N-CA	6.88	129.50	120.28
1	2t	195	ASN	CA-CB-CG	6.88	119.48	112.60
1	2M	16	SER	CA-C-N	6.88	128.44	119.84
1	2M	16	SER	C-N-CA	6.88	128.44	119.84
1	2Y	12	HIS	CA-CB-CG	6.88	120.68	113.80
1	3a	82	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	3L	14	ALA	N-CA-C	6.88	119.44	110.43
1	43	47	ALA	O-C-N	-6.88	114.41	122.87
1	44	207	PRO	N-CA-C	-6.88	106.73	114.92
1	49	5	ASN	CA-CB-CG	6.88	119.48	112.60
1	4k	173	ARG	CA-C-O	6.88	127.91	119.79
1	4w	149	SER	N-CA-CB	6.88	122.12	110.49
1	4x	169	TYR	N-CA-C	6.88	118.43	111.07
1	4y	213	GLU	CA-C-O	6.88	126.99	119.15
1	4H	50	GLN	O-C-N	-6.88	114.31	122.15
1	5E	63	GLN	CG-CD-NE2	6.88	126.72	116.40
1	64	16	SER	CA-C-N	6.88	126.85	119.28
1	64	16	SER	C-N-CA	6.88	126.85	119.28
1	6A	26	VAL	N-CA-CB	6.88	118.60	110.55
1	6C	83	LEU	N-CA-C	6.88	118.43	111.07
1	74	74	ASN	CA-CB-CG	6.88	119.48	112.60
1	7b	95	GLN	O-C-N	-6.88	113.44	122.59
1	7z	121	ASN	OD1-CG-ND2	-6.88	115.72	122.60
1	7E	113	GLU	CA-C-N	6.88	129.83	120.54
1	7E	113	GLU	C-N-CA	6.88	129.83	120.54
1	8o	204	ALA	O-C-N	-6.88	114.83	122.12
1	8A	228	ALA	N-CA-C	6.88	119.62	111.71
1	92	25	LYS	O-C-N	-6.88	114.83	122.12
1	9U	55	MET	CA-C-N	6.88	129.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9U	55	MET	C-N-CA	6.88	129.79	120.44
1	a1	142	VAL	CB-CA-C	-6.88	102.73	112.22
1	ar	96	MET	CA-C-N	6.88	130.93	120.82
1	ar	96	MET	C-N-CA	6.88	130.93	120.82
1	aI	21	ASN	CA-CB-CG	6.88	119.48	112.60
1	aN	82	ARG	N-CA-C	6.88	118.78	111.28
1	b1	117	TRP	CB-CA-C	6.88	121.55	110.96
1	bB	85	PRO	CA-C-N	6.88	131.70	122.90
1	bB	85	PRO	C-N-CA	6.88	131.70	122.90
1	bB	226	HIS	CA-C-O	6.88	127.89	120.32
1	1a	146	SER	O-C-N	-6.88	114.60	121.27
1	bX	186	THR	O-C-N	-6.88	114.31	122.15
1	1d	122	PRO	CA-C-N	6.88	126.80	119.85
1	1d	122	PRO	C-N-CA	6.88	126.80	119.85
1	ct	97	ARG	N-CA-C	6.88	119.20	110.33
1	cD	135	ILE	CA-C-N	6.88	129.38	120.44
1	cD	135	ILE	C-N-CA	6.88	129.38	120.44
1	cL	118	MET	N-CA-C	6.88	119.65	111.33
1	cZ	154	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	d0	91	ILE	CB-CA-C	6.88	120.41	110.98
1	dz	132	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	dP	115	ILE	CA-C-N	6.88	127.61	119.98
1	dP	115	ILE	C-N-CA	6.88	127.61	119.98
1	ep	122	PRO	CA-C-N	6.88	126.80	119.85
1	ep	122	PRO	C-N-CA	6.88	126.80	119.85
1	et	137	GLY	N-CA-C	6.88	120.96	112.64
1	ey	206	GLY	CA-C-N	6.88	126.56	119.82
1	ey	206	GLY	C-N-CA	6.88	126.56	119.82
1	1s	162	ARG	NE-CZ-NH1	6.88	128.38	121.50
1	fb	128	GLU	CB-CA-C	-6.88	99.37	110.79
1	ff	100	ARG	CA-C-N	6.88	127.73	120.03
1	ff	100	ARG	C-N-CA	6.88	127.73	120.03
1	fG	82	ARG	CA-C-N	6.88	129.38	120.44
1	fG	82	ARG	C-N-CA	6.88	129.38	120.44
1	gk	2	ILE	CA-C-N	6.88	132.94	122.69
1	gk	2	ILE	C-N-CA	6.88	132.94	122.69
1	gm	84	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	gu	163	ASP	CA-CB-CG	6.88	119.48	112.60
1	gL	173	ARG	N-CA-C	6.88	118.43	111.07
1	hq	12	HIS	N-CA-C	6.88	120.35	110.24
1	hJ	15	ILE	N-CA-C	6.88	118.31	109.30
1	i6	115	ILE	O-C-N	-6.88	115.20	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ia	217	ALA	N-CA-C	6.88	119.44	110.43
1	it	193	ASN	CA-CB-CG	-6.88	105.72	112.60
1	1Q	226	HIS	CA-C-O	6.88	130.34	120.51
1	jy	84	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	jA	115	ILE	CA-C-N	6.88	127.56	120.00
1	jA	115	ILE	C-N-CA	6.88	127.56	120.00
1	jT	133	TRP	N-CA-C	6.88	118.78	111.28
1	jY	133	TRP	CB-CG-CD2	-6.88	117.17	126.80
1	kd	12	HIS	O-C-N	-6.88	115.12	123.30
1	l3	154	ARG	O-C-N	-6.88	114.85	123.17
1	l8	67	GLN	CA-C-O	-6.88	113.26	120.55
1	lw	67	GLN	CA-C-N	6.88	129.49	120.28
1	lw	67	GLN	C-N-CA	6.88	129.49	120.28
1	2v	228	ALA	N-CA-CB	-6.88	100.07	110.73
1	2A	179	GLN	CA-C-N	6.88	129.80	120.38
1	2A	179	GLN	C-N-CA	6.88	129.80	120.38
1	2C	204	ALA	N-CA-C	6.88	118.43	111.07
1	2W	19	THR	CA-C-N	6.88	129.38	120.44
1	2W	19	THR	C-N-CA	6.88	129.38	120.44
1	30	138	LEU	CA-C-N	6.88	129.82	120.54
1	30	138	LEU	C-N-CA	6.88	129.82	120.54
1	37	150	ILE	CA-C-O	6.88	125.80	119.20
1	3X	10	MET	CG-SD-CE	-6.88	85.77	100.90
1	4e	133	TRP	CB-CG-CD2	-6.88	117.17	126.80
1	4h	140	LYS	CA-C-O	6.88	128.04	120.82
1	4r	170	LYS	O-C-N	-6.88	114.83	122.12
1	4I	8	GLY	CA-C-N	6.88	130.93	120.82
1	4I	8	GLY	C-N-CA	6.88	130.93	120.82
1	4T	27	VAL	O-C-N	-6.88	116.62	121.85
1	52	79	GLU	CA-C-O	-6.88	113.54	120.90
1	68	193	ASN	OD1-CG-ND2	-6.88	115.72	122.60
1	6X	153	ILE	O-C-N	-6.88	113.97	122.57
1	7k	27	VAL	N-CA-C	6.88	117.58	110.36
1	7q	23	TRP	CB-CG-CD1	-6.88	116.59	126.90
1	7z	206	GLY	CA-C-N	6.88	126.48	119.19
1	7z	206	GLY	C-N-CA	6.88	126.48	119.19
1	7C	175	GLU	N-CA-C	6.88	119.44	110.43
1	8m	42	ALA	N-CA-CB	-6.88	100.01	110.12
1	8t	179	GLN	N-CA-C	6.88	119.80	111.82
1	9e	210	THR	N-CA-C	6.88	119.61	110.53
1	9f	162	ARG	CA-C-O	6.88	127.87	120.24
1	9l	124	ILE	N-CA-CB	6.88	116.47	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	167	ARG	CA-C-N	6.88	129.38	120.44
1	9m	167	ARG	C-N-CA	6.88	129.38	120.44
1	9Q	226	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	a0	62	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	a1	201	ILE	N-CA-C	-6.88	103.50	111.00
1	ar	98	GLU	CA-C-O	-6.88	112.92	120.69
1	ax	1	PRO	CA-C-N	6.88	131.72	123.19
1	ax	1	PRO	C-N-CA	6.88	131.72	123.19
1	aS	164	TYR	N-CA-C	6.88	118.57	111.14
1	aU	41	SER	CB-CA-C	-6.88	100.08	110.88
1	bg	199	LYS	CA-C-N	6.88	129.49	120.28
1	bg	199	LYS	C-N-CA	6.88	129.49	120.28
1	bu	6	LEU	O-C-N	-6.88	113.52	122.94
1	bJ	202	LEU	CA-C-O	-6.88	112.06	119.97
1	cb	84	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
1	cd	155	GLN	CA-C-O	6.88	128.75	121.19
1	ck	150	ILE	O-C-N	-6.88	115.17	121.91
1	cH	30	LYS	CA-C-N	6.88	134.68	121.54
1	cH	30	LYS	C-N-CA	6.88	134.68	121.54
1	dh	143	ARG	N-CA-C	6.88	118.77	111.28
1	dL	195	ASN	CA-C-N	6.88	128.44	119.84
1	dL	195	ASN	C-N-CA	6.88	128.44	119.84
1	e1	5	ASN	N-CA-C	-6.88	104.50	113.17
1	fe	149	SER	CA-C-O	6.88	128.83	120.92
1	fO	188	THR	CA-C-N	6.88	129.80	120.38
1	fO	188	THR	C-N-CA	6.88	129.80	120.38
1	v	24	VAL	CA-C-O	6.88	128.46	121.17
1	gi	22	ALA	CB-CA-C	-6.88	100.09	110.88
1	ht	101	GLY	O-C-N	-6.88	115.50	122.17
1	jz	8	GLY	CA-C-N	6.88	130.18	120.28
1	jz	8	GLY	C-N-CA	6.88	130.18	120.28
1	kb	203	LYS	N-CA-C	6.88	119.65	111.33
1	2f	83	LEU	N-CA-C	6.88	118.43	111.07
1	2s	111	LEU	CA-C-N	6.88	129.49	120.28
1	2s	111	LEU	C-N-CA	6.88	129.49	120.28
1	2G	82	ARG	O-C-N	-6.88	114.31	122.15
1	3k	136	LEU	CA-C-N	6.88	129.00	120.34
1	3k	136	LEU	C-N-CA	6.88	129.00	120.34
1	48	229	ARG	NE-CZ-NH2	-6.88	113.01	119.20
1	4K	220	GLY	O-C-N	-6.88	113.76	122.70
1	7c	126	VAL	N-CA-C	6.88	123.64	109.34
1	7d	161	PHE	O-C-N	-6.88	114.83	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8c	151	LEU	N-CA-CB	-6.88	99.67	110.46
1	8f	161	PHE	N-CA-C	-6.88	103.87	111.36
1	8o	41	SER	CA-C-N	6.88	129.49	120.28
1	8o	41	SER	C-N-CA	6.88	129.49	120.28
1	92	195	ASN	N-CA-C	6.88	119.40	109.84
1	9x	28	GLU	N-CA-C	6.88	118.77	111.28
1	bQ	58	THR	O-C-N	-6.88	114.83	122.12
1	e3	74	ASN	N-CA-C	-6.88	103.79	111.28
1	1s	63	GLN	N-CA-C	6.88	118.77	111.28
1	eI	185	MET	O-C-N	-6.88	114.99	122.07
1	fc	171	THR	N-CA-C	-6.88	103.79	111.28
1	fj	195	ASN	OD1-CG-ND2	-6.88	115.72	122.60
1	d	184	TRP	CA-C-N	6.88	129.80	120.38
1	d	184	TRP	C-N-CA	6.88	129.80	120.38
1	gk	126	VAL	CB-CA-C	-6.87	103.17	111.97
1	gF	204	ALA	CA-C-O	6.87	127.87	120.10
1	1F	89	GLY	CA-C-N	6.87	126.91	119.90
1	1F	89	GLY	C-N-CA	6.87	126.91	119.90
1	gV	67	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	h9	227	LYS	N-CA-C	6.87	118.77	111.28
1	hm	219	GLN	N-CA-C	6.87	120.92	112.54
1	ix	230	VAL	N-CA-C	6.87	120.40	110.09
1	iB	190	LEU	N-CA-C	6.87	119.65	111.33
1	iO	50	GLN	CA-C-N	6.87	129.38	120.44
1	iO	50	GLN	C-N-CA	6.87	129.38	120.44
1	iS	62	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	j2	46	GLY	O-C-N	-6.87	115.67	122.41
1	j8	120	HIS	CA-C-O	-6.87	113.61	121.72
1	j9	6	LEU	N-CA-C	-6.87	97.14	108.07
1	jJ	118	MET	N-CA-C	6.87	118.77	111.28
1	kq	221	VAL	N-CA-C	6.87	119.53	109.63
1	kR	82	ARG	NE-CZ-NH2	6.87	125.39	119.20
1	lH	59	VAL	CA-C-N	6.87	134.88	121.41
1	lH	59	VAL	C-N-CA	6.87	134.88	121.41
1	lN	173	ARG	N-CA-C	6.87	119.65	111.33
1	2b	172	LEU	CA-C-O	6.87	127.87	119.97
1	2d	176	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	2p	104	ILE	CA-C-O	6.87	127.14	119.92
1	2I	34	PRO	CA-C-N	6.87	129.80	120.38
1	2I	34	PRO	C-N-CA	6.87	129.80	120.38
1	2Q	218	CYS	CA-C-N	6.87	130.92	120.82
1	2Q	218	CYS	C-N-CA	6.87	130.92	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	172	LEU	O-C-N	-6.87	112.39	122.43
1	3d	129	ILE	N-CA-C	6.87	117.66	110.72
1	3W	65	ALA	N-CA-CB	-6.87	100.02	110.12
1	4n	70	LYS	N-CA-C	6.87	119.41	111.02
1	4u	141	ILE	CA-C-N	6.87	129.88	120.46
1	4u	141	ILE	C-N-CA	6.87	129.88	120.46
1	4w	134	ILE	N-CA-C	6.87	117.02	110.42
1	4F	47	ALA	O-C-N	-6.87	114.42	122.87
1	52	138	LEU	N-CA-C	-6.87	103.87	111.36
1	5e	120	HIS	ND1-CE1-NE2	6.87	115.27	108.40
1	5h	149	SER	O-C-N	-6.87	115.36	123.06
1	5X	89	GLY	CA-C-N	6.87	126.86	119.78
1	5X	89	GLY	C-N-CA	6.87	126.86	119.78
1	6H	164	TYR	CA-C-N	6.87	129.22	120.56
1	6H	164	TYR	C-N-CA	6.87	129.22	120.56
1	6S	36	VAL	CA-C-O	6.87	128.46	121.17
1	6W	169	TYR	CB-CA-C	-6.87	99.38	110.79
1	7c	190	LEU	CA-C-N	6.87	129.88	120.46
1	7c	190	LEU	C-N-CA	6.87	129.88	120.46
1	7g	82	ARG	NH1-CZ-NH2	-6.87	110.36	119.30
1	8j	177	ALA	N-CA-C	6.87	120.27	109.96
1	a0	62	HIS	CA-C-O	-6.87	113.10	121.28
1	aG	219	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	15	57	ASN	CA-C-O	6.87	127.87	119.97
1	bd	22	ALA	N-CA-C	6.87	119.36	111.11
1	bw	124	ILE	O-C-N	-6.87	113.26	121.10
1	bA	226	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	cd	95	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	ce	134	ILE	N-CA-C	6.87	117.02	110.42
1	cN	152	ASP	N-CA-C	-6.87	101.47	111.30
1	cR	193	ASN	O-C-N	-6.87	113.92	122.24
1	dU	114	GLN	CB-CG-CD	-6.87	100.91	112.60
1	ey	168	PHE	N-CA-C	6.87	118.77	111.28
1	eI	213	GLU	N-CA-C	6.87	118.42	111.07
1	fy	134	ILE	N-CA-C	6.87	117.02	110.42
1	1A	176	GLN	CA-C-N	6.87	134.67	121.54
1	1A	176	GLN	C-N-CA	6.87	134.67	121.54
1	c	197	ASP	CA-C-O	6.87	127.71	120.42
1	q	8	GLY	CA-C-O	6.87	126.64	119.01
1	r	114	GLN	N-CA-C	6.87	118.77	111.28
1	gK	164	TYR	N-CA-CB	-6.87	100.11	110.07
1	h9	221	VAL	O-C-N	6.87	128.81	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hj	72	THR	CA-CB-CG2	6.87	122.18	110.50
1	hv	124	ILE	O-C-N	-6.87	113.27	121.10
1	ia	158	LYS	CA-C-O	6.87	126.66	119.51
1	1P	64	ALA	O-C-N	-6.87	114.18	122.22
1	jo	189	LEU	O-C-N	-6.87	114.99	122.07
1	jp	160	PRO	N-CA-C	6.87	122.14	111.21
1	jB	227	LYS	N-CA-C	6.87	120.88	111.54
1	jO	53	ASN	N-CA-C	6.87	118.77	111.28
1	k4	202	LEU	N-CA-C	6.87	119.79	111.82
1	k5	49	PRO	CA-C-N	6.87	129.49	120.28
1	k5	49	PRO	C-N-CA	6.87	129.49	120.28
1	kC	157	PRO	CB-CA-C	6.87	122.90	111.56
1	kF	134	ILE	N-CA-CB	-6.87	102.51	110.55
1	kX	174	ALA	O-C-N	-6.87	113.12	122.33
1	kZ	68	MET	CA-C-N	6.87	129.49	120.28
1	kZ	68	MET	C-N-CA	6.87	129.49	120.28
1	la	188	THR	CA-C-N	6.87	130.41	120.38
1	la	188	THR	C-N-CA	6.87	130.41	120.38
1	lM	43	LEU	CA-C-O	6.87	127.39	119.35
1	2l	84	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	2q	36	VAL	CA-CB-CG1	6.87	122.08	110.40
1	3d	103	ASP	CA-C-O	6.87	127.70	120.42
1	3d	159	GLU	O-C-N	-6.87	114.72	121.94
1	3p	168	PHE	CA-CB-CG	6.87	120.67	113.80
1	3p	176	GLN	N-CA-C	6.87	125.44	110.80
1	3y	183	ASN	N-CA-C	6.87	118.42	111.07
1	3T	105	ALA	CA-C-O	6.87	127.75	119.43
1	3T	188	THR	CA-C-N	6.87	129.79	120.38
1	3T	188	THR	C-N-CA	6.87	129.79	120.38
1	3V	2	ILE	CA-CB-CG1	6.87	122.08	110.40
1	4i	145	TYR	CB-CG-CD2	-6.87	110.49	120.80
1	4m	183	ASN	CA-CB-CG	-6.87	105.73	112.60
1	51	60	GLY	O-C-N	-6.87	113.77	122.70
1	5j	211	LEU	N-CA-C	6.87	119.64	111.33
1	6c	164	TYR	CA-C-N	6.87	129.22	120.56
1	6c	164	TYR	C-N-CA	6.87	129.22	120.56
1	6i	57	ASN	OD1-CG-ND2	-6.87	115.73	122.60
1	6o	62	HIS	ND1-CG-CD2	6.87	112.97	106.10
1	6J	173	ARG	N-CA-C	6.87	118.77	111.28
1	6O	168	PHE	N-CA-C	6.87	119.36	111.11
1	7n	229	ARG	NE-CZ-NH2	-6.87	113.02	119.20
1	9n	6	LEU	O-C-N	-6.87	115.27	123.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9o	110	THR	CA-C-N	6.87	129.49	120.28
1	9o	110	THR	C-N-CA	6.87	129.49	120.28
1	ax	199	LYS	CA-C-O	6.87	127.83	120.55
1	ay	132	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	aE	7	GLN	O-C-N	-6.87	116.07	123.42
1	aM	50	GLN	N-CA-C	6.87	118.77	111.28
1	16	195	ASN	CA-C-N	6.87	127.15	119.32
1	16	195	ASN	C-N-CA	6.87	127.15	119.32
1	bh	133	TRP	N-CA-C	6.87	118.77	111.28
1	bm	142	VAL	N-CA-C	6.87	117.63	110.62
1	bV	79	GLU	CA-C-N	6.87	129.79	120.38
1	bV	79	GLU	C-N-CA	6.87	129.79	120.38
1	c5	62	HIS	N-CA-C	6.87	120.65	111.30
1	cf	224	PRO	CA-C-N	6.87	134.88	121.41
1	cf	224	PRO	C-N-CA	6.87	134.88	121.41
1	co	95	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	cv	84	HIS	CA-C-N	6.87	126.90	119.89
1	cv	84	HIS	C-N-CA	6.87	126.90	119.89
1	cW	58	THR	N-CA-CB	6.87	119.97	110.01
1	d3	39	MET	N-CA-C	6.87	118.77	111.28
1	d4	18	ARG	N-CA-C	6.87	118.77	111.28
1	dc	194	ALA	CA-C-O	6.87	128.83	121.55
1	dA	176	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	e2	87	HIS	O-C-N	-6.87	115.37	123.41
1	e6	178	SER	CA-C-N	6.87	129.49	120.28
1	e6	178	SER	C-N-CA	6.87	129.49	120.28
1	ed	39	MET	N-CA-C	6.87	118.77	111.28
1	eD	68	MET	N-CA-C	6.87	118.42	111.07
1	eW	182	LYS	N-CA-C	6.87	118.85	111.36
1	f6	139	ASN	CA-CB-CG	-6.87	105.73	112.60
1	fc	73	ILE	CA-C-O	6.87	128.13	120.85
1	fr	226	HIS	CG-CD2-NE2	6.87	114.07	107.20
1	fu	95	GLN	O-C-N	-6.87	114.79	123.24
1	g3	115	ILE	O-C-N	-6.87	115.18	121.91
1	0	62	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	5	125	PRO	CA-C-N	6.87	130.22	120.53
1	5	125	PRO	C-N-CA	6.87	130.22	120.53
1	8	6	LEU	CA-C-O	6.87	127.98	120.90
1	gK	213	GLU	N-CA-C	6.87	118.77	111.28
1	h6	15	ILE	CA-C-N	6.87	129.88	120.67
1	h6	15	ILE	C-N-CA	6.87	129.88	120.67
1	hZ	88	ALA	N-CA-C	6.87	119.69	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	7	GLN	N-CA-C	6.87	120.20	109.96
1	iu	178	SER	CA-C-N	6.87	130.34	120.79
1	iu	178	SER	C-N-CA	6.87	130.34	120.79
1	iT	68	MET	O-C-N	-6.87	114.99	122.07
1	jd	226	HIS	ND1-CE1-NE2	6.87	115.27	108.40
1	jl	150	ILE	CA-C-O	6.87	128.09	120.95
1	jp	97	ARG	N-CA-C	6.87	119.69	110.35
1	kl	182	LYS	N-CA-C	6.87	118.77	111.28
1	kw	133	TRP	N-CA-C	6.87	119.64	111.33
1	l7	228	ALA	N-CA-C	6.87	120.19	110.23
1	2Y	142	VAL	N-CA-C	6.87	117.57	110.36
1	3g	167	ARG	CA-C-N	6.87	129.78	120.44
1	3g	167	ARG	C-N-CA	6.87	129.78	120.44
1	3q	150	ILE	N-CA-C	6.87	119.68	111.09
1	41	212	GLU	CA-C-N	6.87	129.37	120.44
1	41	212	GLU	C-N-CA	6.87	129.37	120.44
1	4f	55	MET	CG-SD-CE	-6.87	85.78	100.90
1	5B	120	HIS	CG-CD2-NE2	6.87	114.07	107.20
1	6j	209	ALA	CA-C-O	-6.87	113.47	121.16
1	6o	37	ILE	CA-CB-CG2	6.87	122.18	110.50
1	6A	195	ASN	N-CA-CB	-6.87	100.45	110.14
1	6D	165	VAL	CA-C-O	-6.87	113.22	120.57
1	6K	101	GLY	CA-C-O	6.87	128.13	121.05
1	7P	99	PRO	CA-C-O	-6.87	113.53	121.98
1	7V	126	VAL	CA-C-O	6.87	128.19	121.05
1	7Y	229	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	8b	112	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	98	211	LEU	CA-C-N	6.87	129.79	120.38
1	98	211	LEU	C-N-CA	6.87	129.79	120.38
1	9H	160	PRO	CB-CA-C	-6.87	102.84	111.56
1	au	103	ASP	CA-C-N	6.87	129.46	120.60
1	au	103	ASP	C-N-CA	6.87	129.46	120.60
1	aG	206	GLY	O-C-N	6.87	128.64	121.77
1	cG	39	MET	N-CA-C	6.87	118.77	111.28
1	1k	165	VAL	CA-C-N	6.87	130.05	120.29
1	1k	165	VAL	C-N-CA	6.87	130.05	120.29
1	ey	173	ARG	N-CA-C	6.87	118.42	111.07
1	2	149	SER	CA-C-N	6.87	130.18	120.42
1	2	149	SER	C-N-CA	6.87	130.18	120.42
1	E	16	SER	N-CA-C	6.87	118.36	109.64
1	gH	173	ARG	N-CA-C	6.87	118.85	111.36
1	gV	127	GLY	CA-C-N	6.87	129.72	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gV	127	GLY	C-N-CA	6.87	129.72	120.65
1	hn	138	LEU	N-CA-C	6.87	119.35	111.11
1	hA	5	ASN	N-CA-C	6.87	121.75	113.23
1	hG	33	SER	CA-C-O	-6.87	113.74	120.26
1	hL	76	GLU	N-CA-C	6.87	118.85	111.36
1	i8	153	ILE	CA-C-O	6.87	128.69	120.65
1	ie	189	LEU	N-CA-C	6.87	118.42	111.07
1	1W	128	GLU	O-C-N	-6.87	114.84	122.12
1	jF	26	VAL	CB-CA-C	-6.87	103.02	112.02
1	k1	18	ARG	NH1-CZ-NH2	-6.87	110.37	119.30
1	k2	195	ASN	CA-CB-CG	6.87	119.47	112.60
1	21	3	VAL	N-CA-CB	6.87	122.14	112.52
1	kl	201	ILE	N-CA-CB	6.87	118.59	110.55
1	l6	164	TYR	N-CA-C	6.87	118.42	111.07
1	27	54	THR	N-CA-C	6.87	118.77	111.28
1	lo	132	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	2T	13	GLN	O-C-N	-6.87	115.37	123.41
1	39	201	ILE	N-CA-C	6.87	117.66	110.72
1	3r	187	GLU	CB-CG-CD	6.87	124.28	112.60
1	3F	190	LEU	CA-C-N	6.87	132.92	122.69
1	3F	190	LEU	C-N-CA	6.87	132.92	122.69
1	44	91	ILE	CB-CA-C	6.87	119.69	110.42
1	46	151	LEU	N-CA-CB	-6.87	101.08	110.56
1	47	156	GLY	CA-C-N	6.87	126.34	118.85
1	47	156	GLY	C-N-CA	6.87	126.34	118.85
1	5i	156	GLY	CA-C-N	6.87	128.43	119.84
1	5i	156	GLY	C-N-CA	6.87	128.43	119.84
1	5m	64	ALA	CA-C-O	6.87	127.83	120.55
1	6x	26	VAL	CA-CB-CG2	-6.87	98.72	110.40
1	6B	128	GLU	N-CA-C	6.87	118.42	111.07
1	6X	12	HIS	CE1-NE2-CD2	-6.87	102.13	109.00
1	7t	155	GLN	O-C-N	-6.87	114.43	122.95
1	7C	205	LEU	CA-C-O	6.87	127.39	119.35
1	8u	22	ALA	N-CA-C	6.87	119.64	111.33
1	98	128	GLU	CA-C-N	6.87	129.22	120.56
1	98	128	GLU	C-N-CA	6.87	129.22	120.56
1	9s	18	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	9R	36	VAL	CA-CB-CG2	6.87	122.08	110.40
1	a2	62	HIS	CA-CB-CG	-6.87	106.93	113.80
1	a5	179	GLN	CA-C-O	6.87	127.89	120.20
1	ae	168	PHE	CA-CB-CG	6.87	120.67	113.80
1	ay	154	ARG	CA-C-N	6.87	130.57	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ay	154	ARG	C-N-CA	6.87	130.57	120.95
1	aQ	152	ASP	N-CA-CB	-6.87	99.93	110.44
1	16	136	LEU	CA-C-N	6.87	128.99	120.34
1	16	136	LEU	C-N-CA	6.87	128.99	120.34
1	bp	20	LEU	CA-C-N	6.87	129.48	120.28
1	bp	20	LEU	C-N-CA	6.87	129.48	120.28
1	bz	42	ALA	CA-C-O	-6.87	113.14	120.42
1	bJ	92	GLU	O-C-N	-6.87	114.37	120.48
1	c2	167	ARG	N-CA-C	6.87	118.77	111.28
1	c5	200	THR	CA-C-N	6.87	129.21	120.56
1	c5	200	THR	C-N-CA	6.87	129.21	120.56
1	cG	39	MET	CA-C-N	6.87	129.48	120.28
1	cG	39	MET	C-N-CA	6.87	129.48	120.28
1	do	197	ASP	CA-CB-CG	-6.87	105.73	112.60
1	dz	36	VAL	O-C-N	6.87	128.90	121.83
1	f5	186	THR	N-CA-C	6.87	118.46	110.97
1	fE	217	ALA	N-CA-C	6.87	119.39	110.53
1	g0	65	ALA	N-CA-C	6.87	118.77	111.28
1	a	107	THR	O-C-N	-6.87	115.00	122.07
1	k	12	HIS	CG-CD2-NE2	6.87	114.07	107.20
1	m	181	VAL	CA-C-O	6.87	128.13	120.85
1	p	141	ILE	N-CA-CB	6.87	119.06	110.47
1	z	143	ARG	N-CA-CB	-6.87	100.11	110.07
1	E	9	GLN	CB-CG-CD	-6.87	100.92	112.60
1	P	149	SER	N-CA-C	6.87	120.18	110.50
1	hj	130	TYR	CA-C-N	6.87	129.81	120.54
1	hj	130	TYR	C-N-CA	6.87	129.81	120.54
1	j3	115	ILE	CA-C-N	6.87	127.56	119.94
1	j3	115	ILE	C-N-CA	6.87	127.56	119.94
1	jb	153	ILE	N-CA-C	6.87	119.52	109.63
1	kH	25	LYS	CA-C-N	6.87	129.21	120.56
1	kH	25	LYS	C-N-CA	6.87	129.21	120.56
1	2c	101	GLY	CA-C-N	6.87	129.48	120.28
1	2c	101	GLY	C-N-CA	6.87	129.48	120.28
1	2X	63	GLN	CA-C-N	6.87	129.37	120.44
1	2X	63	GLN	C-N-CA	6.87	129.37	120.44
1	7u	25	LYS	N-CA-C	6.87	119.61	111.71
1	7E	119	THR	N-CA-C	-6.87	104.93	113.38
1	7T	185	MET	CA-C-N	6.87	129.48	120.28
1	7T	185	MET	C-N-CA	6.87	129.48	120.28
1	7V	50	GLN	N-CA-C	6.87	118.77	111.28
1	83	159	GLU	CA-C-N	6.87	127.28	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	83	159	GLU	C-N-CA	6.87	127.28	119.93
1	8d	116	GLY	CA-C-N	6.87	129.48	120.28
1	8d	116	GLY	C-N-CA	6.87	129.48	120.28
1	8I	191	VAL	CA-C-N	6.87	129.48	120.28
1	8I	191	VAL	C-N-CA	6.87	129.48	120.28
1	91	162	ARG	CA-C-N	6.87	129.48	120.28
1	91	162	ARG	C-N-CA	6.87	129.48	120.28
1	9F	42	ALA	N-CA-C	6.87	119.61	111.71
1	a6	62	HIS	ND1-CG-CD2	6.87	112.97	106.10
1	13	42	ALA	O-C-N	-6.87	114.67	122.09
1	aV	72	THR	O-C-N	-6.87	115.00	122.07
1	bl	67	GLN	N-CA-C	6.87	118.77	111.28
1	bI	127	GLY	CA-C-N	6.87	129.78	120.44
1	bI	127	GLY	C-N-CA	6.87	129.78	120.44
1	cj	226	HIS	CA-C-N	6.87	133.37	122.59
1	cj	226	HIS	C-N-CA	6.87	133.37	122.59
1	co	103	ASP	CA-C-N	6.87	129.46	120.60
1	co	103	ASP	C-N-CA	6.87	129.46	120.60
1	cI	159	GLU	CA-C-N	-6.87	111.26	119.84
1	cI	159	GLU	C-N-CA	-6.87	111.26	119.84
1	d2	117	TRP	N-CA-C	6.87	118.42	111.07
1	dz	226	HIS	CB-CG-CD2	-6.87	122.27	131.20
1	ee	11	VAL	CB-CA-C	6.87	121.08	110.50
1	f4	103	ASP	CA-C-O	6.87	127.83	120.55
1	f9	154	ARG	NE-CZ-NH2	6.87	125.38	119.20
1	1v	95	GLN	OE1-CD-NE2	-6.87	115.73	122.60
1	fC	99	PRO	O-C-N	-6.87	115.50	122.98
1	gd	65	ALA	O-C-N	-6.87	114.95	122.09
1	gs	139	ASN	OD1-CG-ND2	-6.87	115.73	122.60
1	gy	75	GLU	O-C-N	6.87	129.98	122.15
1	hn	53	ASN	CA-C-N	6.87	129.37	120.44
1	hn	53	ASN	C-N-CA	6.87	129.37	120.44
1	hF	100	ARG	O-C-N	-6.87	113.10	122.23
1	hM	50	GLN	N-CA-C	6.87	118.76	111.28
1	1N	211	LEU	CA-C-N	6.87	129.48	120.28
1	1N	211	LEU	C-N-CA	6.87	129.48	120.28
1	j8	190	LEU	CA-C-O	6.87	128.05	120.63
1	jc	47	ALA	N-CA-C	6.87	121.24	110.32
1	jk	131	LYS	N-CA-C	6.87	118.76	111.28
1	kk	221	VAL	CB-CA-C	-6.87	101.50	110.84
1	kl	126	VAL	N-CA-C	6.87	117.62	110.62
1	l1	154	ARG	O-C-N	-6.87	115.79	123.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lE	166	ASP	N-CA-C	6.87	118.42	111.07
1	lO	195	ASN	CA-CB-CG	6.87	119.47	112.60
1	2o	135	ILE	CA-C-N	6.87	129.48	120.28
1	2o	135	ILE	C-N-CA	6.87	129.48	120.28
1	2N	97	ARG	NH1-CZ-NH2	-6.87	110.37	119.30
1	2V	82	ARG	NH1-CZ-NH2	-6.87	110.38	119.30
1	3L	186	THR	N-CA-C	6.87	118.76	111.28
1	4p	83	LEU	N-CA-CB	-6.87	100.00	110.16
1	4J	104	ILE	CA-C-O	6.87	127.89	119.58
1	5c	170	LYS	CA-C-N	6.87	130.04	120.29
1	5c	170	LYS	C-N-CA	6.87	130.04	120.29
1	5e	4	GLN	N-CA-CB	6.87	123.74	113.65
1	5u	175	GLU	N-CA-C	6.87	119.16	110.24
1	5O	141	ILE	N-CA-CB	6.87	118.58	110.55
1	6d	81	ASP	CA-CB-CG	-6.87	105.73	112.60
1	6G	47	ALA	N-CA-CB	6.87	120.59	109.95
1	70	95	GLN	N-CA-C	-6.87	95.80	108.02
1	7U	141	ILE	CA-C-N	6.87	129.87	120.46
1	7U	141	ILE	C-N-CA	6.87	129.87	120.46
1	8X	141	ILE	N-CA-C	6.87	117.01	110.42
1	9i	49	PRO	O-C-N	6.87	130.13	122.24
1	9k	33	SER	O-C-N	-6.87	115.90	121.80
1	9J	202	LEU	CA-C-N	6.87	130.04	120.29
1	9J	202	LEU	C-N-CA	6.87	130.04	120.29
1	9L	36	VAL	CA-C-N	6.87	127.02	120.43
1	9L	36	VAL	C-N-CA	6.87	127.02	120.43
1	ab	214	MET	CA-C-O	6.87	128.03	120.82
1	ad	151	LEU	N-CA-C	6.87	118.76	111.28
1	ah	57	ASN	CA-CB-CG	-6.87	105.73	112.60
1	ak	120	HIS	ND1-CE1-NE2	6.87	115.27	108.40
1	13	120	HIS	O-C-N	-6.87	114.72	122.75
1	aL	173	ARG	CA-C-N	6.87	129.37	120.44
1	aL	173	ARG	C-N-CA	6.87	129.37	120.44
1	bi	212	GLU	O-C-N	-6.87	114.84	122.12
1	bs	119	THR	CA-C-N	6.87	130.91	120.82
1	bs	119	THR	C-N-CA	6.87	130.91	120.82
1	bJ	50	GLN	N-CA-CB	6.87	120.21	110.12
1	bV	157	PRO	N-CA-CB	6.87	110.80	103.52
1	cq	117	TRP	N-CA-C	6.87	119.35	111.11
1	cz	103	ASP	N-CA-CB	-6.87	99.73	110.30
1	cT	186	THR	O-C-N	-6.87	115.00	122.07
1	cX	52	LEU	CA-C-N	6.87	129.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cX	52	LEU	C-N-CA	6.87	129.48	120.28
1	d3	149	SER	CA-C-N	6.87	130.17	120.42
1	d3	149	SER	C-N-CA	6.87	130.17	120.42
1	d7	99	PRO	N-CA-C	6.87	121.85	111.14
1	dp	141	ILE	N-CA-C	6.87	117.01	110.42
1	dQ	65	ALA	N-CA-C	6.87	118.42	111.07
1	eD	132	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	eG	61	GLY	CA-C-N	6.87	132.52	122.63
1	eG	61	GLY	C-N-CA	6.87	132.52	122.63
1	fw	54	THR	CA-C-O	6.87	128.03	120.82
1	1z	87	HIS	N-CA-CB	6.87	120.13	110.04
1	fS	107	THR	N-CA-C	6.87	118.45	110.97
1	gf	83	LEU	CB-CA-C	6.86	121.66	110.88
1	gT	213	GLU	CA-C-N	6.86	129.77	120.44
1	gT	213	GLU	C-N-CA	6.86	129.77	120.44
1	h1	27	VAL	N-CA-C	6.86	117.62	110.62
1	1J	99	PRO	CA-C-O	-6.86	113.24	121.48
1	hq	138	LEU	CA-C-N	6.86	129.48	120.28
1	hq	138	LEU	C-N-CA	6.86	129.48	120.28
1	hA	130	TYR	CA-C-O	6.86	127.70	120.42
1	hI	194	ALA	O-C-N	-6.86	114.37	122.81
1	hO	130	TYR	CA-C-N	6.86	129.48	120.28
1	hO	130	TYR	C-N-CA	6.86	129.48	120.28
1	ih	147	PRO	O-C-N	-6.86	113.37	122.64
1	it	216	THR	O-C-N	-6.86	114.10	122.20
1	iE	91	ILE	CA-C-N	6.86	130.24	120.49
1	iE	91	ILE	C-N-CA	6.86	130.24	120.49
1	j6	19	THR	CA-C-O	6.86	128.03	120.82
1	jb	170	LYS	CA-C-N	6.86	129.48	120.28
1	jb	170	LYS	C-N-CA	6.86	129.48	120.28
1	jt	147	PRO	CA-C-N	-6.86	113.09	122.77
1	jt	147	PRO	C-N-CA	-6.86	113.09	122.77
1	jH	142	VAL	CA-C-N	6.86	130.04	120.29
1	jH	142	VAL	C-N-CA	6.86	130.04	120.29
1	jV	101	GLY	CA-C-N	6.86	132.35	120.68
1	jV	101	GLY	C-N-CA	6.86	132.35	120.68
1	kw	128	GLU	N-CA-C	6.86	119.60	111.71
1	kx	213	GLU	N-CA-C	6.86	119.60	111.71
1	kJ	62	HIS	CA-CB-CG	-6.86	106.94	113.80
1	kW	202	LEU	O-C-N	-6.86	114.84	122.12
1	29	196	PRO	O-C-N	-6.86	114.77	122.18
1	lD	178	SER	O-C-N	-6.86	114.04	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2h	98	GLU	CA-C-N	-6.86	112.69	119.76
1	2h	98	GLU	C-N-CA	-6.86	112.69	119.76
1	2l	88	ALA	O-C-N	-6.86	115.28	123.31
1	2n	37	ILE	CA-C-O	-6.86	114.09	118.69
1	2r	53	ASN	CA-C-O	-6.86	113.27	120.55
1	2x	116	GLY	CA-C-N	6.86	129.36	120.44
1	2x	116	GLY	C-N-CA	6.86	129.36	120.44
1	2F	36	VAL	CA-C-O	6.86	128.44	121.17
1	36	31	ALA	N-CA-C	6.86	119.68	108.08
1	36	154	ARG	O-C-N	-6.86	115.38	123.41
1	3e	76	GLU	CA-C-N	6.86	129.48	120.28
1	3e	76	GLU	C-N-CA	6.86	129.48	120.28
1	3p	50	GLN	N-CA-C	6.86	118.41	111.07
1	3x	18	ARG	NH1-CZ-NH2	-6.86	110.38	119.30
1	3E	24	VAL	CA-C-O	6.86	128.12	120.85
1	4a	78	ALA	CA-C-N	6.86	129.48	120.28
1	4a	78	ALA	C-N-CA	6.86	129.48	120.28
1	4b	147	PRO	CA-C-N	6.86	130.46	120.71
1	4b	147	PRO	C-N-CA	6.86	130.46	120.71
1	4f	14	ALA	O-C-N	-6.86	115.25	122.94
1	4f	51	ASP	O-C-N	-6.86	114.84	122.12
1	4o	186	THR	CA-CB-OG1	6.86	119.89	109.60
1	4I	6	LEU	O-C-N	-6.86	114.65	122.68
1	4P	102	SER	CA-C-O	6.86	127.86	119.97
1	4W	146	SER	CA-C-O	-6.86	113.62	119.59
1	59	154	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	5s	91	ILE	O-C-N	-6.86	116.61	122.65
1	69	69	LEU	CA-C-N	6.86	129.81	120.54
1	69	69	LEU	C-N-CA	6.86	129.81	120.54
1	6q	205	LEU	CA-C-N	6.86	132.65	121.87
1	6q	205	LEU	C-N-CA	6.86	132.65	121.87
1	7c	230	VAL	O-C-N	-6.86	114.59	122.62
1	7f	159	GLU	O-C-N	-6.86	113.74	121.43
1	7z	42	ALA	N-CA-C	6.86	118.41	111.07
1	7I	226	HIS	CA-CB-CG	6.86	120.66	113.80
1	7Z	51	ASP	CA-C-N	6.86	129.36	120.44
1	7Z	51	ASP	C-N-CA	6.86	129.36	120.44
1	85	226	HIS	ND1-CE1-NE2	6.86	115.26	108.40
1	86	181	VAL	CA-C-N	6.86	129.48	120.28
1	86	181	VAL	C-N-CA	6.86	129.48	120.28
1	8a	189	LEU	N-CA-C	6.86	119.64	111.33
1	8A	26	VAL	O-C-N	6.86	128.64	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	54	THR	CA-C-O	6.86	128.03	120.82
1	90	68	MET	CA-C-N	6.86	129.71	120.65
1	90	68	MET	C-N-CA	6.86	129.71	120.65
1	91	39	MET	CA-C-N	6.86	129.36	120.44
1	91	39	MET	C-N-CA	6.86	129.36	120.44
1	9H	112	GLN	N-CA-CB	-6.86	100.06	110.01
1	aa	120	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	ag	73	ILE	CA-C-N	6.86	129.48	120.28
1	ag	73	ILE	C-N-CA	6.86	129.48	120.28
1	aH	36	VAL	CA-C-N	6.86	125.82	120.33
1	aH	36	VAL	C-N-CA	6.86	125.82	120.33
1	aV	86	VAL	O-C-N	-6.86	115.84	122.98
1	bm	167	ARG	CA-C-O	6.86	128.03	120.82
1	bF	6	LEU	CA-C-O	6.86	127.95	119.78
1	bQ	134	ILE	CA-C-O	-6.86	113.57	120.85
1	cf	40	PHE	N-CA-C	6.86	119.64	111.33
1	cR	44	SER	CA-C-N	6.86	134.65	121.54
1	cR	44	SER	C-N-CA	6.86	134.65	121.54
1	dn	73	ILE	N-CA-C	6.86	118.44	110.62
1	dn	214	MET	CB-CA-C	-6.86	100.10	110.88
1	1q	99	PRO	O-C-N	-6.86	115.50	122.98
1	ey	110	THR	OG1-CB-CG2	-6.86	95.57	109.30
1	eD	189	LEU	CA-C-N	6.86	131.12	120.82
1	eD	189	LEU	C-N-CA	6.86	131.12	120.82
1	eM	134	ILE	O-C-N	-6.86	115.21	121.87
1	ff	131	LYS	CA-C-N	6.86	129.36	120.44
1	ff	131	LYS	C-N-CA	6.86	129.36	120.44
1	fg	207	PRO	N-CA-CB	-6.86	96.04	103.25
1	fi	168	PHE	O-C-N	-6.86	115.00	122.07
1	fy	167	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	f	107	THR	N-CA-C	-6.86	104.88	113.18
1	E	67	GLN	CA-C-N	6.86	129.48	120.28
1	E	67	GLN	C-N-CA	6.86	129.48	120.28
1	H	9	GLN	OE1-CD-NE2	-6.86	115.74	122.60
1	H	16	SER	O-C-N	-6.86	114.23	121.30
1	N	55	MET	N-CA-C	6.86	119.60	111.71
1	gq	218	CYS	O-C-N	-6.86	114.35	122.58
1	hd	53	ASN	CA-C-N	6.86	129.36	120.44
1	hd	53	ASN	C-N-CA	6.86	129.36	120.44
1	hW	145	TYR	N-CA-C	6.86	121.48	113.18
1	i2	87	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	ie	40	PHE	CA-CB-CG	-6.86	106.94	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j4	124	ILE	O-C-N	-6.86	116.68	121.55
1	1Y	102	SER	CA-C-N	6.86	129.77	120.44
1	1Y	102	SER	C-N-CA	6.86	129.77	120.44
1	1Z	195	ASN	CA-CB-CG	6.86	119.46	112.60
1	kP	159	GLU	N-CA-C	6.86	118.36	109.64
1	2w	184	TRP	CB-CG-CD2	6.86	136.41	126.80
1	3Q	82	ARG	CA-C-O	-6.86	113.61	120.82
1	4d	70	LYS	N-CA-CB	-6.86	100.03	110.12
1	4y	187	GLU	CA-C-O	6.86	126.99	119.24
1	4E	141	ILE	CA-C-O	-6.86	113.58	120.85
1	5g	2	ILE	N-CA-CB	6.86	120.83	110.13
1	5m	143	ARG	N-CA-C	6.86	118.55	111.14
1	5C	54	THR	O-C-N	-6.86	114.68	122.09
1	6l	201	ILE	N-CA-CB	-6.86	100.29	110.58
1	6s	120	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	6w	84	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	7A	113	GLU	N-CA-C	6.86	118.76	111.28
1	89	86	VAL	CB-CA-C	6.86	119.14	111.45
1	8x	51	ASP	CA-CB-CG	-6.86	105.74	112.60
1	8T	139	ASN	O-C-N	-6.86	114.85	122.12
1	8U	123	PRO	CA-C-O	-6.86	113.84	121.32
1	9w	25	LYS	N-CA-C	6.86	119.78	111.82
1	bS	77	ALA	CB-CA-C	6.86	121.74	110.90
1	ci	117	TRP	N-CA-C	6.86	118.41	111.07
1	cx	174	ALA	N-CA-CB	-6.86	98.38	110.39
1	cN	110	THR	N-CA-CB	6.86	120.05	110.17
1	db	159	GLU	N-CA-C	6.86	118.44	109.93
1	eP	176	GLN	CA-C-N	6.86	131.11	120.75
1	eP	176	GLN	C-N-CA	6.86	131.11	120.75
1	f9	153	ILE	N-CA-CB	6.86	118.38	110.49
1	fW	191	VAL	CA-C-O	6.86	128.41	121.27
1	g1	91	ILE	CA-C-N	6.86	131.10	120.60
1	g1	91	ILE	C-N-CA	6.86	131.10	120.60
1	7	54	THR	CA-C-N	6.86	130.33	120.79
1	7	54	THR	C-N-CA	6.86	130.33	120.79
1	ge	24	VAL	CA-C-N	6.86	129.47	120.28
1	ge	24	VAL	C-N-CA	6.86	129.47	120.28
1	gs	120	HIS	CA-CB-CG	6.86	120.66	113.80
1	gJ	206	GLY	O-C-N	-6.86	114.91	121.77
1	1G	94	GLY	O-C-N	-6.86	114.30	122.33
1	hS	2	ILE	CA-C-O	6.86	128.80	120.84
1	hS	128	GLU	CA-C-O	6.86	127.69	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i8	44	SER	CA-C-N	6.86	131.12	121.24
1	i8	44	SER	C-N-CA	6.86	131.12	121.24
1	j5	62	HIS	CA-CB-CG	-6.86	106.94	113.80
1	ja	74	ASN	CA-CB-CG	6.86	119.46	112.60
1	jF	223	GLY	CA-C-N	6.86	128.41	119.84
1	jF	223	GLY	C-N-CA	6.86	128.41	119.84
1	jI	150	ILE	CA-C-N	6.86	129.36	120.44
1	jI	150	ILE	C-N-CA	6.86	129.36	120.44
1	k1	154	ARG	O-C-N	-6.86	115.40	123.22
1	l6	45	GLU	O-C-N	-6.86	113.51	122.77
1	ll	125	PRO	CA-C-O	-6.86	113.95	121.77
1	2n	125	PRO	CA-C-O	-6.86	116.23	121.31
1	2o	18	ARG	N-CA-C	6.86	118.76	111.28
1	2K	65	ALA	N-CA-C	6.86	118.76	111.28
1	2P	5	ASN	CA-CB-CG	-6.86	105.74	112.60
1	3n	100	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	3C	100	ARG	O-C-N	-6.86	113.69	122.20
1	47	152	ASP	CA-CB-CG	-6.86	105.74	112.60
1	49	7	GLN	OE1-CD-NE2	-6.86	115.74	122.60
1	4I	143	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	4K	140	LYS	CA-C-N	6.86	129.86	120.46
1	4K	140	LYS	C-N-CA	6.86	129.86	120.46
1	4O	76	GLU	N-CA-C	6.86	118.76	111.28
1	59	204	ALA	N-CA-C	6.86	118.84	111.36
1	5h	131	LYS	CA-C-N	6.86	129.47	120.28
1	5h	131	LYS	C-N-CA	6.86	129.47	120.28
1	5i	87	HIS	CG-CD2-NE2	6.86	114.06	107.20
1	5k	67	GLN	O-C-N	-6.86	115.00	122.07
1	5l	90	PRO	N-CA-C	6.86	122.02	111.11
1	5n	105	ALA	N-CA-CB	-6.86	101.09	110.56
1	5C	176	GLN	N-CA-C	6.86	120.61	112.93
1	5Z	24	VAL	O-C-N	-6.86	114.77	121.83
1	62	90	PRO	N-CA-CB	6.86	109.42	103.31
1	65	135	ILE	O-C-N	-6.86	115.22	121.87
1	6b	185	MET	CA-C-O	-6.86	113.28	120.55
1	6q	184	TRP	N-CA-C	6.86	118.76	111.28
1	7y	87	HIS	CA-CB-CG	-6.86	106.94	113.80
1	7B	58	THR	O-C-N	-6.86	115.00	122.07
1	7J	61	GLY	N-CA-C	6.86	123.73	112.89
1	7J	149	SER	N-CA-CB	6.86	121.26	110.56
1	8U	178	SER	CA-C-N	6.86	129.36	120.44
1	8U	178	SER	C-N-CA	6.86	129.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9q	163	ASP	CA-C-N	6.86	130.03	120.29
1	9q	163	ASP	C-N-CA	6.86	130.03	120.29
1	9w	52	LEU	N-CA-C	6.86	119.78	111.82
1	9w	159	GLU	CA-C-O	-6.86	113.23	120.23
1	9M	126	VAL	CA-CB-CG1	-6.86	98.74	110.40
1	aW	20	LEU	CA-C-N	6.86	129.47	120.28
1	aW	20	LEU	C-N-CA	6.86	129.47	120.28
1	bt	215	MET	CG-SD-CE	-6.86	85.81	100.90
1	bJ	226	HIS	ND1-CE1-NE2	6.86	115.26	108.40
1	cn	73	ILE	CB-CA-C	-6.86	102.88	112.14
1	cE	183	ASN	OD1-CG-ND2	-6.86	115.74	122.60
1	e4	4	GLN	OE1-CD-NE2	-6.86	115.74	122.60
1	eh	45	GLU	CA-C-O	6.86	128.54	120.58
1	en	74	ASN	CA-C-N	6.86	129.77	120.44
1	en	74	ASN	C-N-CA	6.86	129.77	120.44
1	eq	126	VAL	CA-C-N	6.86	127.55	120.00
1	eq	126	VAL	C-N-CA	6.86	127.55	120.00
1	eH	173	ARG	NH1-CZ-NH2	-6.86	110.38	119.30
1	fF	184	TRP	O-C-N	-6.86	114.85	122.12
1	3	217	ALA	CA-C-O	6.86	127.86	119.97
1	7	135	ILE	CA-C-N	6.86	129.47	120.28
1	7	135	ILE	C-N-CA	6.86	129.47	120.28
1	gd	162	ARG	N-CA-CB	6.86	119.95	110.01
1	gx	16	SER	CA-C-N	6.86	126.33	118.85
1	gx	16	SER	C-N-CA	6.86	126.33	118.85
1	gF	7	GLN	N-CA-C	6.86	123.24	113.02
1	hr	62	HIS	ND1-CG-CD2	6.86	112.96	106.10
1	jg	197	ASP	CA-CB-CG	6.86	119.46	112.60
1	jW	28	GLU	CA-C-O	6.86	128.02	120.82
1	km	153	ILE	N-CA-C	6.86	117.89	108.84
1	kC	84	HIS	N-CA-CB	6.86	120.92	111.25
1	2m	53	ASN	OD1-CG-ND2	-6.86	115.74	122.60
1	2v	223	GLY	O-C-N	6.86	128.63	121.77
1	35	74	ASN	CA-C-N	6.86	129.36	120.44
1	35	74	ASN	C-N-CA	6.86	129.36	120.44
1	3M	224	PRO	O-C-N	-6.86	114.28	122.99
1	3X	112	GLN	CG-CD-OE1	6.86	134.52	120.80
1	5M	111	LEU	N-CA-C	6.86	119.63	111.33
1	6t	53	ASN	OD1-CG-ND2	-6.86	115.74	122.60
1	6U	129	ILE	N-CA-CB	6.86	118.58	110.55
1	7I	176	GLN	CA-C-N	6.86	130.45	120.71
1	7I	176	GLN	C-N-CA	6.86	130.45	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	159	GLU	N-CA-C	6.86	118.77	109.24
1	9I	116	GLY	O-C-N	-6.86	115.54	122.19
1	9J	28	GLU	CA-C-N	6.86	129.36	120.44
1	9J	28	GLU	C-N-CA	6.86	129.36	120.44
1	9J	159	GLU	CA-C-N	6.86	127.27	119.93
1	9J	159	GLU	C-N-CA	6.86	127.27	119.93
1	10	20	LEU	O-C-N	-6.86	114.85	122.12
1	aK	20	LEU	CA-C-N	6.86	129.47	120.28
1	aK	20	LEU	C-N-CA	6.86	129.47	120.28
1	1x	92	GLU	N-CA-C	6.86	119.37	109.84
1	fx	75	GLU	N-CA-C	6.86	119.34	111.11
1	fG	121	ASN	CA-CB-CG	-6.86	105.74	112.60
1	fN	180	GLU	N-CA-C	6.86	119.60	111.71
1	g7	115	ILE	CA-C-N	6.86	127.74	119.99
1	g7	115	ILE	C-N-CA	6.86	127.74	119.99
1	E	166	ASP	CA-CB-CG	-6.86	105.74	112.60
1	M	181	VAL	CA-C-N	6.86	129.47	120.28
1	M	181	VAL	C-N-CA	6.86	129.47	120.28
1	gf	23	TRP	N-CA-C	6.86	118.41	111.07
1	gF	136	LEU	CA-C-N	6.86	127.41	119.94
1	gF	136	LEU	C-N-CA	6.86	127.41	119.94
1	gN	25	LYS	O-C-N	-6.86	114.85	122.12
1	1G	132	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	gW	144	MET	O-C-N	-6.86	115.01	122.07
1	h2	209	ALA	N-CA-C	6.86	119.68	110.35
1	hf	97	ARG	N-CA-C	6.86	120.17	110.23
1	hk	72	THR	O-C-N	-6.86	114.85	122.12
1	ih	84	HIS	CA-C-O	-6.86	112.97	119.55
1	im	212	GLU	CA-C-N	6.86	129.47	120.28
1	im	212	GLU	C-N-CA	6.86	129.47	120.28
1	j8	174	ALA	N-CA-C	6.86	118.41	111.07
1	jG	166	ASP	N-CA-CB	6.86	119.95	110.01
1	jR	41	SER	N-CA-C	6.86	118.41	111.07
1	ke	162	ARG	N-CA-C	6.86	119.34	111.11
1	kx	51	ASP	O-C-N	-6.86	114.85	122.12
1	kH	30	LYS	N-CA-C	6.86	121.01	112.03
1	lx	24	VAL	CA-C-N	6.86	130.15	120.28
1	lx	24	VAL	C-N-CA	6.86	130.15	120.28
1	lN	212	GLU	CB-CG-CD	-6.86	100.94	112.60
1	2n	99	PRO	CB-CA-C	6.86	119.13	111.11
1	2J	17	PRO	CA-C-N	6.86	129.36	120.44
1	2J	17	PRO	C-N-CA	6.86	129.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	18	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	37	4	GLN	O-C-N	-6.86	113.42	122.47
1	3e	67	GLN	CB-CA-C	-6.86	99.19	110.85
1	3H	95	GLN	CB-CG-CD	6.86	124.26	112.60
1	3Y	22	ALA	O-C-N	-6.86	114.33	122.15
1	4b	12	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	4f	82	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	4p	115	ILE	O-C-N	-6.86	114.77	121.83
1	57	152	ASP	N-CA-C	6.86	121.39	112.89
1	5p	84	HIS	CE1-NE2-CD2	-6.86	102.14	109.00
1	67	87	HIS	CA-CB-CG	6.86	120.66	113.80
1	6u	121	ASN	CA-C-O	6.86	124.94	119.59
1	6F	27	VAL	N-CA-C	6.86	117.61	110.62
1	72	105	ALA	N-CA-C	6.86	119.59	111.71
1	7A	67	GLN	O-C-N	-6.86	114.85	122.12
1	7E	22	ALA	N-CA-C	6.86	119.34	111.11
1	7K	121	ASN	CA-CB-CG	-6.86	105.74	112.60
1	7T	195	ASN	N-CA-C	6.86	119.36	109.48
1	8q	53	ASN	OD1-CG-ND2	-6.86	115.74	122.60
1	8X	50	GLN	CA-C-N	6.86	129.35	120.44
1	8X	50	GLN	C-N-CA	6.86	129.35	120.44
1	9b	175	GLU	O-C-N	-6.86	115.21	123.10
1	9v	55	MET	N-CA-C	6.86	118.75	111.28
1	9w	116	GLY	O-C-N	-6.86	114.07	122.71
1	9D	61	GLY	CA-C-N	6.86	132.10	122.36
1	9D	61	GLY	C-N-CA	6.86	132.10	122.36
1	9Z	97	ARG	N-CA-C	-6.86	98.30	108.79
1	ag	219	GLN	N-CA-CB	-6.86	99.12	110.23
1	al	5	ASN	OD1-CG-ND2	-6.86	115.74	122.60
1	az	18	ARG	CA-C-N	6.86	130.03	120.29
1	az	18	ARG	C-N-CA	6.86	130.03	120.29
1	aR	137	GLY	CA-C-N	6.86	130.03	120.29
1	aR	137	GLY	C-N-CA	6.86	130.03	120.29
1	aY	226	HIS	CA-CB-CG	6.86	120.66	113.80
1	cE	182	LYS	CA-C-N	6.86	130.03	120.29
1	cE	182	LYS	C-N-CA	6.86	130.03	120.29
1	cI	191	VAL	N-CA-CB	6.86	119.35	110.57
1	cQ	188	THR	OG1-CB-CG2	-6.86	95.58	109.30
1	cS	55	MET	O-C-N	-6.86	114.20	122.22
1	1i	22	ALA	CA-C-O	6.86	127.81	119.38
1	dy	139	ASN	CA-CB-CG	-6.86	105.74	112.60
1	eb	130	TYR	N-CA-C	6.86	118.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	el	73	ILE	N-CA-C	6.86	117.61	110.62
1	ep	198	CYS	N-CA-C	-6.86	103.73	111.07
1	eq	229	ARG	NE-CZ-NH1	6.86	128.36	121.50
1	eF	3	VAL	N-CA-CB	6.86	118.00	110.53
1	eS	10	MET	N-CA-CB	-6.86	100.31	110.53
1	1w	209	ALA	N-CA-C	6.86	119.38	110.53
1	fD	174	ALA	N-CA-C	-6.86	103.89	111.36
1	fO	17	PRO	CA-C-N	6.86	130.03	120.29
1	fO	17	PRO	C-N-CA	6.86	130.03	120.29
1	D	51	ASP	CA-C-O	6.86	127.69	120.42
1	6	129	ILE	CA-C-O	6.86	128.12	120.85
1	ge	165	VAL	CA-C-N	6.86	130.32	120.79
1	ge	165	VAL	C-N-CA	6.86	130.32	120.79
1	gG	180	GLU	CA-C-O	6.86	128.24	120.90
1	h4	203	LYS	N-CA-C	-6.86	103.26	111.69
1	hf	34	PRO	CA-C-N	6.86	130.39	120.38
1	hf	34	PRO	C-N-CA	6.86	130.39	120.38
1	hh	146	SER	O-C-N	-6.86	111.60	121.54
1	hK	137	GLY	CA-C-O	6.86	127.93	120.66
1	hL	83	LEU	N-CA-C	6.86	118.75	111.28
1	i7	164	TYR	CA-CB-CG	-6.86	101.56	113.90
1	is	111	LEU	CB-CA-C	6.86	121.82	110.92
1	jj	149	SER	CA-C-O	6.86	128.69	121.15
1	jk	84	HIS	ND1-CE1-NE2	6.86	115.26	108.40
1	ke	171	THR	CA-C-N	6.86	129.47	120.28
1	ke	171	THR	C-N-CA	6.86	129.47	120.28
1	kn	15	ILE	O-C-N	-6.86	115.23	122.57
1	lg	65	ALA	N-CA-C	6.86	118.75	111.28
1	lm	186	THR	N-CA-C	6.86	118.41	111.07
1	lo	165	VAL	CA-C-O	6.86	128.08	120.95
1	28	104	ILE	CA-CB-CG1	6.86	122.05	110.40
1	2a	87	HIS	ND1-CE1-NE2	6.86	115.26	108.40
1	2d	81	ASP	CA-C-O	-6.86	113.28	120.55
1	3K	105	ALA	N-CA-C	-6.86	104.66	113.16
1	4G	43	LEU	O-C-N	-6.86	114.85	122.12
1	4N	54	THR	CA-C-N	6.86	129.35	120.44
1	4N	54	THR	C-N-CA	6.86	129.35	120.44
1	4U	197	ASP	N-CA-C	6.86	118.75	111.28
1	6a	24	VAL	CA-C-O	6.86	127.91	120.57
1	6g	63	GLN	N-CA-C	6.86	120.90	112.54
1	6G	203	LYS	O-C-N	-6.86	114.85	122.12
1	6Y	228	ALA	O-C-N	-6.86	114.85	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	70	46	GLY	N-CA-C	-6.86	105.77	115.30
1	7h	76	GLU	CA-C-N	6.86	130.15	120.28
1	7h	76	GLU	C-N-CA	6.86	130.15	120.28
1	7o	198	CYS	O-C-N	-6.86	115.01	122.07
1	80	204	ALA	CA-C-N	6.86	130.02	120.29
1	80	204	ALA	C-N-CA	6.86	130.02	120.29
1	9m	76	GLU	CA-C-N	6.86	129.35	120.44
1	9m	76	GLU	C-N-CA	6.86	129.35	120.44
1	9z	89	GLY	CA-C-N	6.86	128.41	119.84
1	9z	89	GLY	C-N-CA	6.86	128.41	119.84
1	9M	27	VAL	CA-C-N	6.86	129.35	120.44
1	9M	27	VAL	C-N-CA	6.86	129.35	120.44
1	ab	87	HIS	CG-CD2-NE2	6.86	114.06	107.20
1	ag	24	VAL	N-CA-C	6.86	118.44	110.62
1	ao	56	LEU	N-CA-C	6.86	118.41	111.07
1	ap	130	TYR	CB-CG-CD2	-6.86	110.52	120.80
1	13	13	GLN	OE1-CD-NE2	-6.86	115.74	122.60
1	aF	151	LEU	O-C-N	-6.86	113.00	122.46
1	bi	56	LEU	O-C-N	-6.86	114.85	122.12
1	bv	166	ASP	O-C-N	-6.86	114.85	122.12
1	bz	226	HIS	CB-CG-ND1	6.86	132.98	122.70
1	1a	110	THR	CA-C-N	6.86	131.10	120.82
1	1a	110	THR	C-N-CA	6.86	131.10	120.82
1	cr	10	MET	N-CA-C	6.86	119.15	110.24
1	d4	148	THR	N-CA-C	6.86	118.81	108.46
1	dk	124	ILE	N-CA-C	-6.86	100.27	107.60
1	dH	18	ARG	NE-CZ-NH1	6.86	128.35	121.50
1	dQ	183	ASN	CA-C-N	6.86	129.47	120.28
1	dQ	183	ASN	C-N-CA	6.86	129.47	120.28
1	dY	112	GLN	O-C-N	6.86	129.13	122.07
1	e0	154	ARG	NE-CZ-NH1	6.86	128.35	121.50
1	e7	25	LYS	N-CA-C	6.86	118.41	111.07
1	er	209	ALA	CA-C-N	6.86	130.90	120.82
1	er	209	ALA	C-N-CA	6.86	130.90	120.82
1	eF	97	ARG	NE-CZ-NH1	6.86	128.35	121.50
1	eO	183	ASN	CA-CB-CG	-6.86	105.75	112.60
1	fc	114	GLN	OE1-CD-NE2	-6.86	115.75	122.60
1	fm	160	PRO	CA-C-N	6.86	129.79	120.54
1	fm	160	PRO	C-N-CA	6.86	129.79	120.54
1	ft	61	GLY	CA-C-N	6.86	132.13	122.46
1	ft	61	GLY	C-N-CA	6.86	132.13	122.46
1	fD	83	LEU	N-CA-C	6.86	119.59	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fM	200	THR	N-CA-C	6.86	119.34	111.11
1	g2	230	VAL	CA-CB-CG2	-6.86	98.75	110.40
1	g	24	VAL	O-C-N	-6.86	115.08	121.94
1	B	226	HIS	ND1-CE1-NE2	6.86	115.25	108.40
1	O	74	ASN	O-C-N	-6.86	114.20	122.22
1	U	65	ALA	N-CA-C	6.86	119.59	111.71
1	gm	189	LEU	N-CA-C	6.85	119.59	111.71
1	ht	76	GLU	N-CA-C	6.85	118.83	111.36
1	hL	53	ASN	OD1-CG-ND2	-6.85	115.75	122.60
1	hL	79	GLU	CA-C-N	6.85	129.77	120.38
1	hL	79	GLU	C-N-CA	6.85	129.77	120.38
1	i5	124	ILE	CA-C-O	-6.85	114.20	119.20
1	ic	181	VAL	CA-C-N	6.85	129.79	120.54
1	ic	181	VAL	C-N-CA	6.85	129.79	120.54
1	iD	82	ARG	CA-C-N	6.85	129.46	120.28
1	iD	82	ARG	C-N-CA	6.85	129.46	120.28
1	jJ	21	ASN	OD1-CG-ND2	6.85	129.45	122.60
1	kj	67	GLN	O-C-N	-6.85	114.86	122.12
1	kS	17	PRO	N-CA-CB	6.85	110.79	103.52
1	l5	62	HIS	ND1-CE1-NE2	6.85	115.25	108.40
1	lJ	159	GLU	CA-C-N	6.85	127.25	119.92
1	lJ	159	GLU	C-N-CA	6.85	127.25	119.92
1	lO	3	VAL	O-C-N	-6.85	115.86	123.26
1	lO	33	SER	CA-C-N	6.85	128.41	119.84
1	lO	33	SER	C-N-CA	6.85	128.41	119.84
1	2X	193	ASN	CA-C-O	6.85	127.48	119.32
1	2Y	71	GLU	CA-C-O	-6.85	113.62	120.82
1	4J	23	TRP	N-CA-CB	-6.85	99.73	109.94
1	4Y	98	GLU	O-C-N	-6.85	115.20	121.30
1	5g	226	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	5C	148	THR	CA-C-N	6.85	133.22	122.94
1	5C	148	THR	C-N-CA	6.85	133.22	122.94
1	9q	57	ASN	CA-CB-CG	-6.85	105.75	112.60
1	9t	87	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	a2	78	ALA	O-C-N	-6.85	113.84	122.27
1	a5	63	GLN	O-C-N	-6.85	114.20	122.22
1	ab	31	ALA	N-CA-C	6.85	119.33	111.11
1	ag	167	ARG	NE-CZ-NH2	-6.85	113.03	119.20
1	aV	98	GLU	N-CA-C	6.85	118.53	109.83
1	b1	22	ALA	N-CA-C	6.85	118.75	111.28
1	bt	86	VAL	CA-C-O	-6.85	113.09	120.36
1	cy	9	GLN	OE1-CD-NE2	-6.85	115.75	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ei	95	GLN	N-CA-C	6.85	120.16	110.50
1	fj	217	ALA	N-CA-C	6.85	119.91	110.24
1	g7	134	ILE	O-C-N	-6.85	115.19	121.91
1	2	22	ALA	CA-C-O	6.85	127.69	120.42
1	ge	193	ASN	CA-CB-CG	-6.85	105.75	112.60
1	gw	56	LEU	N-CA-C	6.85	120.90	112.54
1	gy	126	VAL	N-CA-C	6.85	117.61	110.62
1	1F	82	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	gO	14	ALA	N-CA-C	6.85	120.31	110.24
1	1H	88	ALA	N-CA-C	6.85	118.40	111.07
1	h8	128	GLU	N-CA-CB	6.85	119.95	110.01
1	hy	82	ARG	N-CA-CB	-6.85	100.05	110.12
1	hF	98	GLU	CA-C-N	6.85	128.41	119.84
1	hF	98	GLU	C-N-CA	6.85	128.41	119.84
1	in	65	ALA	N-CA-CB	-6.85	100.14	110.07
1	1P	227	LYS	N-CA-C	-6.85	104.95	113.38
1	j4	213	GLU	N-CA-C	6.85	118.40	111.07
1	j5	165	VAL	O-C-N	-6.85	115.22	121.87
1	jf	71	GLU	CA-C-O	6.85	128.23	120.90
1	jp	112	GLN	N-CA-C	6.85	118.75	111.28
1	jq	217	ALA	CA-C-N	6.85	134.63	121.54
1	jq	217	ALA	C-N-CA	6.85	134.63	121.54
1	jX	207	PRO	CA-C-N	6.85	129.77	120.38
1	jX	207	PRO	C-N-CA	6.85	129.77	120.38
1	kg	10	MET	CG-SD-CE	-6.85	85.82	100.90
1	ko	223	GLY	N-CA-C	6.85	120.22	112.00
1	kO	226	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	kQ	4	GLN	N-CA-C	6.85	120.24	109.96
1	la	184	TRP	CA-C-N	6.85	129.46	120.28
1	la	184	TRP	C-N-CA	6.85	129.46	120.28
1	lp	141	ILE	O-C-N	-6.85	114.77	121.90
1	lH	70	LYS	N-CA-C	6.85	118.83	111.36
1	lR	62	HIS	ND1-CE1-NE2	6.85	115.25	108.40
1	2e	123	PRO	O-C-N	-6.85	114.49	122.71
1	2i	84	HIS	CB-CA-C	-6.85	103.34	110.33
1	2N	114	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	2O	170	LYS	N-CA-C	6.85	118.40	111.07
1	3f	100	ARG	NE-CZ-NH2	-6.85	113.03	119.20
1	3A	12	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	3G	184	TRP	CB-CG-CD2	6.85	136.40	126.80
1	3J	130	TYR	O-C-N	-6.85	114.86	122.12
1	3N	98	GLU	CA-C-N	6.85	126.61	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3N	98	GLU	C-N-CA	6.85	126.61	119.76
1	43	182	LYS	CA-C-N	6.85	130.32	120.79
1	43	182	LYS	C-N-CA	6.85	130.32	120.79
1	4c	75	GLU	N-CA-CB	6.85	119.94	110.01
1	4d	154	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	4Q	100	ARG	O-C-N	-6.85	114.66	122.68
1	4W	219	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	5H	120	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	5P	22	ALA	N-CA-C	6.85	118.40	111.07
1	63	217	ALA	N-CA-C	6.85	120.42	110.28
1	6j	114	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	6G	163	ASP	CA-C-N	6.85	129.35	120.44
1	6G	163	ASP	C-N-CA	6.85	129.35	120.44
1	7b	121	ASN	CA-C-O	-6.85	114.25	119.59
1	7k	51	ASP	CA-C-N	6.85	129.35	120.44
1	7k	51	ASP	C-N-CA	6.85	129.35	120.44
1	7o	27	VAL	N-CA-C	6.85	117.56	110.36
1	8N	124	ILE	CA-C-O	-6.85	114.04	119.25
1	8S	124	ILE	O-C-N	-6.85	116.12	121.46
1	9z	110	THR	N-CA-C	6.85	119.41	110.43
1	9C	123	PRO	CA-C-O	-6.85	113.61	121.56
1	9P	175	GLU	N-CA-C	6.85	120.17	110.23
1	11	167	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	av	14	ALA	N-CA-C	6.85	119.90	110.24
1	aR	154	ARG	NE-CZ-NH2	-6.85	113.03	119.20
1	bg	5	ASN	CA-CB-CG	-6.85	105.75	112.60
1	bq	143	ARG	NE-CZ-NH2	-6.85	113.03	119.20
1	bs	164	TYR	N-CA-C	6.85	118.75	111.28
1	by	178	SER	CA-C-N	6.85	129.46	120.28
1	by	178	SER	C-N-CA	6.85	129.46	120.28
1	bM	170	LYS	N-CA-C	6.85	119.33	111.11
1	dk	86	VAL	CA-C-N	6.85	132.34	122.40
1	dk	86	VAL	C-N-CA	6.85	132.34	122.40
1	dm	159	GLU	CA-C-O	-6.85	113.66	119.76
1	1k	83	LEU	CB-CA-C	-6.85	99.41	110.79
1	dW	16	SER	CA-C-N	6.85	126.66	119.05
1	dW	16	SER	C-N-CA	6.85	126.66	119.05
1	e5	5	ASN	CA-C-O	6.85	128.10	120.70
1	e7	166	ASP	O-C-N	6.85	129.41	122.08
1	e8	195	ASN	CA-C-O	-6.85	112.95	120.69
1	eq	214	MET	CA-C-O	6.85	128.02	120.82
1	1s	131	LYS	O-C-N	-6.85	114.86	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	61	GLY	CA-C-N	6.85	132.12	122.46
1	eR	61	GLY	C-N-CA	6.85	132.12	122.46
1	eZ	78	ALA	CA-C-N	6.85	129.46	120.28
1	eZ	78	ALA	C-N-CA	6.85	129.46	120.28
1	fh	167	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	fP	100	ARG	O-C-N	-6.85	113.12	122.23
1	j	36	VAL	N-CA-C	6.85	117.61	110.62
1	A	188	THR	CA-CB-OG1	6.85	119.88	109.60
1	J	39	MET	O-C-N	-6.85	113.84	122.27
1	V	74	ASN	CA-CB-CG	-6.85	105.75	112.60
1	8	199	LYS	CA-C-N	6.85	130.02	120.29
1	8	199	LYS	C-N-CA	6.85	130.02	120.29
1	9	63	GLN	OE1-CD-NE2	6.85	129.45	122.60
1	g8	51	ASP	CA-C-O	6.85	128.01	120.82
1	h2	73	ILE	CA-CB-CG1	6.85	122.05	110.40
1	hq	153	ILE	O-C-N	-6.85	114.97	122.64
1	hF	95	GLN	CA-C-O	6.85	128.83	121.16
1	hI	182	LYS	N-CA-C	6.85	118.75	111.28
1	hW	27	VAL	O-C-N	-6.85	114.77	121.83
1	23	170	LYS	N-CA-C	6.85	118.40	111.07
1	kF	229	ARG	N-CA-CB	6.85	120.24	110.44
1	2B	174	ALA	CA-C-O	6.85	127.37	119.35
1	2G	171	THR	CA-C-N	6.85	129.35	120.44
1	2G	171	THR	C-N-CA	6.85	129.35	120.44
1	2Q	10	MET	N-CA-C	6.85	119.15	110.24
1	3i	165	VAL	N-CA-C	6.85	117.55	110.36
1	3k	135	ILE	N-CA-CB	6.85	119.86	110.54
1	55	148	THR	N-CA-C	-6.85	98.93	109.14
1	5i	229	ARG	CD-NE-CZ	6.85	133.99	124.40
1	5G	76	GLU	CA-C-O	6.85	127.85	119.97
1	6X	142	VAL	CB-CA-C	-6.85	102.77	112.22
1	71	12	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	7X	17	PRO	N-CA-C	-6.85	104.66	114.18
1	8u	97	ARG	N-CA-C	6.85	120.31	110.24
1	9y	51	ASP	CA-C-N	6.85	130.31	120.79
1	9y	51	ASP	C-N-CA	6.85	130.31	120.79
1	9X	5	ASN	N-CA-CB	6.85	122.32	111.43
1	a6	56	LEU	N-CA-C	6.85	118.75	111.28
1	11	133	TRP	CB-CA-C	6.85	122.16	110.79
1	15	212	GLU	N-CA-C	6.85	122.67	111.37
1	bV	188	THR	CA-C-N	6.85	129.79	120.54
1	bV	188	THR	C-N-CA	6.85	129.79	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	42	ALA	N-CA-C	6.85	118.75	111.28
1	cw	162	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	cO	205	LEU	N-CA-C	6.85	118.40	111.07
1	dl	184	TRP	CD2-CE2-CZ2	-6.85	115.55	122.40
1	dI	162	ARG	N-CA-C	6.85	119.62	111.33
1	dN	129	ILE	CA-C-N	6.85	130.02	120.29
1	dN	129	ILE	C-N-CA	6.85	130.02	120.29
1	fc	165	VAL	N-CA-CB	6.85	120.86	110.58
1	gK	130	TYR	CA-C-N	6.85	129.46	120.28
1	gK	130	TYR	C-N-CA	6.85	129.46	120.28
1	1G	66	MET	N-CA-C	6.85	118.75	111.28
1	h0	139	ASN	OD1-CG-ND2	-6.85	115.75	122.60
1	hw	126	VAL	N-CA-C	6.85	118.43	110.62
1	hx	138	LEU	N-CA-CB	6.85	120.30	110.16
1	hD	25	LYS	N-CA-CB	-6.85	99.75	110.30
1	hY	14	ALA	CA-C-O	6.85	129.03	121.56
1	ia	229	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	iF	61	GLY	CA-C-N	6.85	132.75	122.68
1	iF	61	GLY	C-N-CA	6.85	132.75	122.68
1	jx	171	THR	N-CA-CB	6.85	120.00	110.07
1	jT	82	ARG	CA-C-N	6.85	130.72	120.31
1	jT	82	ARG	C-N-CA	6.85	130.72	120.31
1	kv	121	ASN	CA-CB-CG	6.85	119.45	112.60
1	kB	226	HIS	CE1-NE2-CD2	-6.85	102.15	109.00
1	kV	4	GLN	N-CA-CB	6.85	122.06	110.49
1	kW	10	MET	CG-SD-CE	-6.85	85.83	100.90
1	l0	122	PRO	CA-C-N	6.85	126.77	119.85
1	l0	122	PRO	C-N-CA	6.85	126.77	119.85
1	lo	113	GLU	N-CA-C	-6.85	103.74	111.14
1	28	27	VAL	CA-C-O	6.85	128.39	121.27
1	31	187	GLU	N-CA-C	6.85	118.75	111.28
1	39	143	ARG	N-CA-C	6.85	118.40	111.07
1	3d	144	MET	N-CA-C	6.85	118.75	111.28
1	3e	30	LYS	CA-C-O	-6.85	111.61	119.14
1	3s	146	SER	O-C-N	-6.85	113.44	121.32
1	3H	90	PRO	CA-C-N	6.85	129.68	120.50
1	3H	90	PRO	C-N-CA	6.85	129.68	120.50
1	3M	14	ALA	N-CA-C	6.85	119.67	110.35
1	3V	39	MET	O-C-N	-6.85	114.86	122.12
1	45	124	ILE	CA-C-O	-6.85	113.85	119.47
1	4j	197	ASP	CA-CB-CG	6.85	119.45	112.60
1	5h	50	GLN	CA-C-N	6.85	129.76	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	50	GLN	C-N-CA	6.85	129.76	120.38
1	5o	221	VAL	O-C-N	-6.85	115.14	122.95
1	5q	75	GLU	CA-C-N	6.85	129.46	120.28
1	5q	75	GLU	C-N-CA	6.85	129.46	120.28
1	5q	217	ALA	N-CA-C	6.85	119.37	110.53
1	5A	97	ARG	NE-CZ-NH2	-6.85	113.04	119.20
1	5J	103	ASP	CA-C-N	6.85	129.84	120.46
1	5J	103	ASP	C-N-CA	6.85	129.84	120.46
1	5K	124	ILE	CB-CA-C	6.85	119.12	111.04
1	5S	118	MET	N-CA-C	6.85	118.83	111.36
1	64	152	ASP	CA-C-N	6.85	129.87	120.35
1	64	152	ASP	C-N-CA	6.85	129.87	120.35
1	6j	80	TRP	CA-C-N	6.85	129.34	120.44
1	6j	80	TRP	C-N-CA	6.85	129.34	120.44
1	6t	179	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	7e	160	PRO	N-CA-C	6.85	122.10	111.21
1	7G	51	ASP	CA-CB-CG	6.85	119.45	112.60
1	85	34	PRO	N-CA-C	6.85	123.95	113.75
1	8V	221	VAL	O-C-N	-6.85	115.09	123.10
1	93	23	TRP	CA-C-N	6.85	129.44	120.60
1	93	23	TRP	C-N-CA	6.85	129.44	120.60
1	97	227	LYS	N-CA-C	6.85	120.31	110.24
1	9i	213	GLU	N-CA-C	-6.85	103.93	112.90
1	az	5	ASN	CA-CB-CG	6.85	119.45	112.60
1	aA	203	LYS	CG-CD-CE	6.85	127.06	111.30
1	bR	89	GLY	O-C-N	6.85	128.62	121.77
1	cC	23	TRP	CA-C-N	6.85	129.19	120.56
1	cC	23	TRP	C-N-CA	6.85	129.19	120.56
1	cD	214	MET	N-CA-C	6.85	118.40	111.07
1	d8	33	SER	CA-C-N	6.85	126.55	119.56
1	d8	33	SER	C-N-CA	6.85	126.55	119.56
1	d8	145	TYR	CA-C-O	6.85	128.51	120.70
1	dC	34	PRO	CA-C-N	6.85	131.66	120.63
1	dC	34	PRO	C-N-CA	6.85	131.66	120.63
1	e0	51	ASP	CA-CB-CG	6.85	119.45	112.60
1	eq	86	VAL	N-CA-C	6.85	118.62	109.37
1	eD	62	HIS	CA-C-N	6.85	129.79	120.54
1	eD	62	HIS	C-N-CA	6.85	129.79	120.54
1	f1	57	ASN	OD1-CG-ND2	-6.85	115.75	122.60
1	fb	155	GLN	O-C-N	-6.85	115.41	123.22
1	fn	32	PHE	N-CA-C	-6.85	104.23	112.59
1	fW	167	ARG	N-CA-C	6.85	118.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fW	201	ILE	CA-C-N	6.85	130.02	120.29
1	fW	201	ILE	C-N-CA	6.85	130.02	120.29
1	L	121	ASN	CA-CB-CG	6.85	119.45	112.60
1	1C	110	THR	O-C-N	-6.85	114.98	122.79
1	gr	159	GLU	CA-C-O	-6.85	112.95	120.69
1	h1	19	THR	N-CA-C	6.85	118.74	111.28
1	h3	43	LEU	CA-C-O	6.85	128.01	120.82
1	h6	12	HIS	CG-CD2-NE2	6.85	114.05	107.20
1	hP	212	GLU	N-CA-C	6.85	118.40	111.07
1	ik	15	ILE	O-C-N	-6.85	115.33	122.66
1	1Q	83	LEU	CA-C-N	-6.85	116.25	122.28
1	1Q	83	LEU	C-N-CA	-6.85	116.25	122.28
1	iD	21	ASN	CA-CB-CG	-6.85	105.75	112.60
1	jA	82	ARG	CA-C-O	-6.85	113.63	120.82
1	jC	77	ALA	CA-C-N	6.85	129.34	120.44
1	jC	77	ALA	C-N-CA	6.85	129.34	120.44
1	jJ	158	LYS	O-C-N	-6.85	113.57	122.20
1	20	148	THR	N-CA-C	-6.85	104.12	113.30
1	kg	184	TRP	CA-C-N	6.85	129.46	120.28
1	kg	184	TRP	C-N-CA	6.85	129.46	120.28
1	kG	165	VAL	CA-C-N	6.85	129.75	120.44
1	kG	165	VAL	C-N-CA	6.85	129.75	120.44
1	l8	160	PRO	CA-C-N	6.85	134.62	121.54
1	l8	160	PRO	C-N-CA	6.85	134.62	121.54
1	ly	47	ALA	O-C-N	-6.85	115.18	123.19
1	ly	193	ASN	CA-CB-CG	-6.85	105.75	112.60
1	2j	6	LEU	CA-C-O	-6.85	113.94	121.33
1	2D	167	ARG	CA-C-O	6.85	127.84	119.97
1	31	77	ALA	O-C-N	-6.85	114.86	122.12
1	3p	27	VAL	N-CA-C	6.85	117.64	110.72
1	3V	23	TRP	N-CA-C	6.85	118.74	111.28
1	42	217	ALA	CA-C-N	6.85	131.86	122.07
1	42	217	ALA	C-N-CA	6.85	131.86	122.07
1	4c	23	TRP	N-CA-C	6.85	118.40	111.07
1	4k	191	VAL	CA-C-O	6.85	125.47	118.96
1	4w	161	PHE	N-CA-C	6.85	118.75	111.28
1	50	168	PHE	CA-C-N	6.85	129.46	120.28
1	50	168	PHE	C-N-CA	6.85	129.46	120.28
1	5E	122	PRO	CA-C-N	6.85	126.81	120.03
1	5E	122	PRO	C-N-CA	6.85	126.81	120.03
1	6x	18	ARG	O-C-N	-6.85	115.02	122.07
1	72	6	LEU	CA-C-N	6.85	132.12	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	6	LEU	C-N-CA	6.85	132.12	122.46
1	75	108	THR	CA-C-O	6.85	127.26	119.18
1	7k	30	LYS	O-C-N	-6.85	114.86	122.12
1	7y	117	TRP	CA-C-N	6.85	132.16	120.72
1	7y	117	TRP	C-N-CA	6.85	132.16	120.72
1	7C	97	ARG	N-CA-CB	6.85	122.06	110.49
1	7L	92	GLU	O-C-N	-6.85	113.44	121.32
1	8c	75	GLU	O-C-N	-6.85	115.02	122.07
1	8A	56	LEU	N-CA-C	6.85	119.58	111.71
1	8G	171	THR	CA-C-N	6.85	129.46	120.28
1	8G	171	THR	C-N-CA	6.85	129.46	120.28
1	8N	2	ILE	O-C-N	-6.85	115.86	122.98
1	96	137	GLY	N-CA-C	6.85	120.44	112.50
1	9c	178	SER	CA-C-N	6.85	130.14	120.28
1	9c	178	SER	C-N-CA	6.85	130.14	120.28
1	9K	110	THR	N-CA-CB	6.85	120.70	110.29
1	aa	113	GLU	CA-C-N	6.85	129.34	120.44
1	aa	113	GLU	C-N-CA	6.85	129.34	120.44
1	ax	177	ALA	N-CA-C	6.85	119.14	110.24
1	ay	223	GLY	CA-C-N	6.85	128.40	119.84
1	ay	223	GLY	C-N-CA	6.85	128.40	119.84
1	aK	179	GLN	N-CA-C	6.85	118.40	111.07
1	bj	193	ASN	N-CA-C	-6.85	104.05	112.88
1	bk	215	MET	N-CA-C	-6.85	104.40	112.89
1	bE	63	GLN	N-CA-C	6.85	118.74	111.28
1	cf	152	ASP	N-CA-CB	-6.85	99.96	110.44
1	cD	113	GLU	CA-C-N	6.85	129.46	120.28
1	cD	113	GLU	C-N-CA	6.85	129.46	120.28
1	cG	52	LEU	CA-C-N	6.85	130.01	120.29
1	cG	52	LEU	C-N-CA	6.85	130.01	120.29
1	d4	214	MET	O-C-N	-6.85	115.02	122.07
1	dn	88	ALA	N-CA-C	6.85	120.30	110.10
1	dK	52	LEU	CA-C-N	6.85	129.75	120.44
1	dK	52	LEU	C-N-CA	6.85	129.75	120.44
1	1r	141	ILE	N-CA-CB	6.85	118.56	110.55
1	eF	84	HIS	CG-CD2-NE2	6.85	114.05	107.20
1	eS	204	ALA	CA-C-N	6.85	129.34	120.44
1	eS	204	ALA	C-N-CA	6.85	129.34	120.44
1	f3	105	ALA	CA-C-O	6.85	127.72	119.43
1	1x	87	HIS	CA-CB-CG	-6.85	106.95	113.80
1	fH	135	ILE	CA-C-N	6.85	130.14	120.28
1	fH	135	ILE	C-N-CA	6.85	130.14	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	85	PRO	CA-C-O	6.85	128.78	121.32
1	1	48	THR	CA-C-O	-6.85	113.34	120.87
1	t	37	ILE	CA-C-N	6.85	127.12	119.32
1	t	37	ILE	C-N-CA	6.85	127.12	119.32
1	Q	12	HIS	CA-C-O	-6.85	112.97	120.43
1	1L	59	VAL	O-C-N	-6.85	114.79	122.66
1	iz	204	ALA	CA-C-N	6.85	129.45	120.28
1	iz	204	ALA	C-N-CA	6.85	129.45	120.28
1	iD	82	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	j5	67	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	ju	90	PRO	N-CA-C	6.85	121.97	111.15
1	kb	189	LEU	CA-C-N	6.85	130.38	120.38
1	kb	189	LEU	C-N-CA	6.85	130.38	120.38
1	ki	14	ALA	O-C-N	-6.85	115.42	123.22
1	2l	135	ILE	CA-C-O	6.85	128.43	121.17
1	33	81	ASP	CA-CB-CG	6.85	119.45	112.60
1	4j	51	ASP	CA-C-N	6.85	129.45	120.28
1	4j	51	ASP	C-N-CA	6.85	129.45	120.28
1	4H	122	PRO	CA-C-N	6.85	127.25	119.92
1	4H	122	PRO	C-N-CA	6.85	127.25	119.92
1	5w	194	ALA	O-C-N	-6.85	114.99	122.79
1	5E	166	ASP	O-C-N	-6.85	115.02	122.07
1	5S	125	PRO	CB-CA-C	6.85	122.43	112.64
1	6L	133	TRP	CB-CG-CD2	-6.85	117.22	126.80
1	7F	164	TYR	N-CA-C	6.85	119.58	111.71
1	7H	188	THR	N-CA-CB	6.85	122.06	110.49
1	7T	166	ASP	CA-CB-CG	6.85	119.45	112.60
1	88	211	LEU	CA-C-N	6.85	129.34	120.44
1	88	211	LEU	C-N-CA	6.85	129.34	120.44
1	9B	12	HIS	CG-CD2-NE2	6.85	114.05	107.20
1	ak	87	HIS	ND1-CE1-NE2	6.85	115.25	108.40
1	bh	112	GLN	OE1-CD-NE2	-6.85	115.75	122.60
1	bH	98	GLU	O-C-N	-6.85	114.16	121.42
1	bO	221	VAL	CA-C-O	-6.85	111.99	121.51
1	bU	204	ALA	N-CA-C	6.85	119.76	111.82
1	cj	67	GLN	CA-C-N	6.85	129.45	120.28
1	cj	67	GLN	C-N-CA	6.85	129.45	120.28
1	1l	86	VAL	CA-CB-CG1	6.85	122.04	110.40
1	dz	91	ILE	O-C-N	-6.85	115.43	123.03
1	dC	33	SER	CA-C-O	-6.85	112.93	119.91
1	ew	44	SER	CA-C-N	6.85	129.76	120.38
1	ew	44	SER	C-N-CA	6.85	129.76	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f2	120	HIS	CA-CB-CG	6.85	120.65	113.80
1	fn	229	ARG	NE-CZ-NH1	6.85	128.35	121.50
1	fo	148	THR	N-CA-C	6.85	119.74	108.99
1	0	36	VAL	CA-C-N	6.85	125.81	120.33
1	0	36	VAL	C-N-CA	6.85	125.81	120.33
1	b	162	ARG	CA-C-O	6.85	128.01	120.82
1	gm	29	GLU	N-CA-C	6.84	119.61	111.33
1	gs	165	VAL	N-CA-C	6.84	116.99	110.42
1	gz	202	LEU	CA-C-N	6.84	129.34	120.44
1	gz	202	LEU	C-N-CA	6.84	129.34	120.44
1	hq	115	ILE	N-CA-CB	6.84	118.11	110.51
1	hJ	229	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	ic	216	THR	O-C-N	6.84	131.84	122.46
1	id	122	PRO	N-CD-CG	6.84	112.01	103.80
1	1Q	116	GLY	N-CA-C	-6.84	104.56	112.50
1	iY	173	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	jn	37	ILE	CA-C-N	6.84	126.31	118.85
1	jn	37	ILE	C-N-CA	6.84	126.31	118.85
1	jB	154	ARG	O-C-N	-6.84	115.59	123.33
1	k4	90	PRO	CB-CA-C	6.84	119.99	111.23
1	23	133	TRP	CA-C-O	6.84	127.68	120.42
1	lD	42	ALA	O-C-N	-6.84	114.86	122.12
1	2I	54	THR	N-CA-C	6.84	119.32	111.11
1	3v	164	TYR	CB-CG-CD2	6.84	131.07	120.80
1	3F	195	ASN	CA-CB-CG	6.84	119.44	112.60
1	3O	112	GLN	OE1-CD-NE2	6.84	129.44	122.60
1	4F	112	GLN	CA-C-N	6.84	129.34	120.44
1	4F	112	GLN	C-N-CA	6.84	129.34	120.44
1	5p	146	SER	CA-C-N	6.84	128.40	119.84
1	5p	146	SER	C-N-CA	6.84	128.40	119.84
1	5I	183	ASN	N-CA-C	6.84	118.39	111.07
1	6i	98	GLU	N-CA-C	6.84	118.27	109.65
1	6B	71	GLU	CA-C-N	6.84	129.45	120.28
1	6B	71	GLU	C-N-CA	6.84	129.45	120.28
1	6G	51	ASP	O-C-N	-6.84	114.35	122.15
1	6Z	53	ASN	O-C-N	-6.84	114.87	122.12
1	7d	229	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	7R	193	ASN	OD1-CG-ND2	6.84	129.44	122.60
1	8l	156	GLY	O-C-N	-6.84	114.93	121.77
1	8m	74	ASN	CA-C-N	6.84	129.34	120.44
1	8m	74	ASN	C-N-CA	6.84	129.34	120.44
1	8m	168	PHE	N-CA-CB	6.84	119.90	109.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9q	164	TYR	CA-C-O	6.84	127.67	120.42
1	9Y	131	LYS	N-CA-CB	6.84	120.29	110.16
1	c6	1	PRO	CA-C-N	6.84	131.20	122.37
1	c6	1	PRO	C-N-CA	6.84	131.20	122.37
1	cD	12	HIS	CB-CG-CD2	-6.84	122.30	131.20
1	cJ	84	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	d1	7	GLN	OE1-CD-NE2	-6.84	115.75	122.60
1	dA	211	LEU	CA-C-O	6.84	127.87	120.20
1	dT	221	VAL	CA-C-O	-6.84	115.21	120.96
1	dV	51	ASP	CA-CB-CG	6.84	119.44	112.60
1	1s	62	HIS	CA-C-N	6.84	129.45	120.28
1	1s	62	HIS	C-N-CA	6.84	129.45	120.28
1	eK	62	HIS	CA-C-N	6.84	129.34	120.44
1	eK	62	HIS	C-N-CA	6.84	129.34	120.44
1	eN	24	VAL	CA-C-O	6.84	128.07	120.95
1	fd	12	HIS	ND1-CE1-NE2	6.84	115.24	108.40
1	fH	132	ARG	O-C-N	-6.84	114.35	122.15
1	g3	177	ALA	N-CA-C	6.84	125.38	110.80
1	j	111	LEU	O-C-N	6.84	130.23	122.22
1	u	181	VAL	N-CA-C	6.84	116.99	110.42
1	C	173	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	T	106	GLY	CA-C-N	6.84	129.94	120.63
1	T	106	GLY	C-N-CA	6.84	129.94	120.63
1	gJ	155	GLN	O-C-N	-6.84	115.18	123.19
1	gQ	200	THR	O-C-N	-6.84	114.87	122.12
1	he	11	VAL	CA-C-O	6.84	127.51	120.39
1	hS	137	GLY	O-C-N	-6.84	115.55	122.19
1	1W	36	VAL	CA-CB-CG1	6.84	122.03	110.40
1	kH	104	ILE	N-CA-C	6.84	117.60	110.62
1	24	217	ALA	N-CA-C	6.84	119.39	110.43
1	lr	181	VAL	O-C-N	-6.84	115.23	121.87
1	2A	96	MET	CA-C-N	6.84	131.08	120.75
1	2A	96	MET	C-N-CA	6.84	131.08	120.75
1	2M	67	GLN	N-CA-C	6.84	120.51	111.75
1	3k	75	GLU	N-CA-C	6.84	118.74	111.28
1	44	42	ALA	N-CA-C	6.84	119.76	111.82
1	5l	167	ARG	NE-CZ-NH2	-6.84	113.04	119.20
1	6A	14	ALA	N-CA-C	6.84	119.14	110.24
1	7a	62	HIS	CA-C-N	6.84	129.34	120.44
1	7a	62	HIS	C-N-CA	6.84	129.34	120.44
1	7i	35	GLU	O-C-N	-6.84	114.87	122.12
1	7p	154	ARG	NH1-CZ-NH2	-6.84	110.40	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	102	SER	N-CA-C	6.84	119.76	111.82
1	8j	153	ILE	CA-C-O	6.84	129.33	120.78
1	9a	103	ASP	CA-C-N	6.84	129.43	120.60
1	9a	103	ASP	C-N-CA	6.84	129.43	120.60
1	9s	48	THR	CA-C-N	6.84	128.39	119.84
1	9s	48	THR	C-N-CA	6.84	128.39	119.84
1	a0	98	GLU	CA-C-O	-6.84	114.19	119.46
1	aU	164	TYR	N-CA-CB	-6.84	99.74	109.94
1	bc	187	GLU	N-CA-C	6.84	119.58	111.71
1	bt	100	ARG	N-CA-C	6.84	119.16	110.33
1	bO	162	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	1i	107	THR	CA-C-O	6.84	128.00	120.82
1	d7	201	ILE	N-CA-C	6.84	117.63	110.72
1	e4	24	VAL	CA-C-N	6.84	130.01	120.29
1	e4	24	VAL	C-N-CA	6.84	130.01	120.29
1	e8	120	HIS	CB-CG-CD2	-6.84	122.31	131.20
1	eB	112	GLN	N-CA-C	6.84	119.61	111.33
1	eK	220	GLY	CA-C-N	6.84	129.67	120.50
1	eK	220	GLY	C-N-CA	6.84	129.67	120.50
1	1u	23	TRP	CA-CB-CG	6.84	126.60	113.60
1	fc	59	VAL	N-CA-C	6.84	116.94	110.30
1	g6	18	ARG	N-CA-C	6.84	119.32	111.11
1	gl	35	GLU	O-C-N	6.84	130.23	122.22
1	gm	87	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	gy	193	ASN	OD1-CG-ND2	-6.84	115.76	122.60
1	gU	95	GLN	CA-C-O	6.84	128.80	121.55
1	gY	165	VAL	O-C-N	-6.84	115.20	121.91
1	hb	52	LEU	N-CA-C	6.84	119.32	111.11
1	hm	27	VAL	CA-C-N	6.84	129.33	120.44
1	hm	27	VAL	C-N-CA	6.84	129.33	120.44
1	1J	1	PRO	CA-C-N	-6.84	112.42	122.68
1	1J	1	PRO	C-N-CA	-6.84	112.42	122.68
1	hw	226	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	i8	37	ILE	CA-C-N	6.84	126.81	119.28
1	i8	37	ILE	C-N-CA	6.84	126.81	119.28
1	i8	95	GLN	CG-CD-NE2	-6.84	106.14	116.40
1	ic	167	ARG	CA-C-N	6.84	129.33	120.44
1	ic	167	ARG	C-N-CA	6.84	129.33	120.44
1	ie	112	GLN	N-CA-CB	6.84	120.22	109.82
1	ig	168	PHE	CA-C-O	-6.84	113.55	121.07
1	is	200	THR	CA-C-N	6.84	129.83	120.46
1	is	200	THR	C-N-CA	6.84	129.83	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	121	ASN	CA-CB-CG	-6.84	105.76	112.60
1	iW	154	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	jY	25	LYS	CA-C-N	6.84	129.43	120.60
1	jY	25	LYS	C-N-CA	6.84	129.43	120.60
1	k9	57	ASN	OD1-CG-ND2	6.84	129.44	122.60
1	ke	143	ARG	CA-C-N	6.84	129.75	120.38
1	ke	143	ARG	C-N-CA	6.84	129.75	120.38
1	kt	43	LEU	O-C-N	-6.84	113.86	122.27
1	ku	161	PHE	N-CA-C	6.84	118.74	111.28
1	kH	85	PRO	CA-C-N	6.84	131.93	123.10
1	kH	85	PRO	C-N-CA	6.84	131.93	123.10
1	kK	8	GLY	CA-C-N	6.84	132.75	121.39
1	kK	8	GLY	C-N-CA	6.84	132.75	121.39
1	l1	57	ASN	CA-C-N	6.84	129.45	120.28
1	l1	57	ASN	C-N-CA	6.84	129.45	120.28
1	lD	39	MET	CA-C-N	6.84	129.45	120.28
1	lD	39	MET	C-N-CA	6.84	129.45	120.28
1	lF	183	ASN	OD1-CG-ND2	-6.84	115.76	122.60
1	lL	79	GLU	CA-C-N	6.84	129.75	120.38
1	lL	79	GLU	C-N-CA	6.84	129.75	120.38
1	2n	92	GLU	CA-C-N	6.84	128.39	119.84
1	2n	92	GLU	C-N-CA	6.84	128.39	119.84
1	2I	98	GLU	CA-C-O	6.84	124.73	119.46
1	2Z	199	LYS	N-CA-C	6.84	119.58	111.71
1	3p	161	PHE	CA-C-N	6.84	130.37	120.38
1	3p	161	PHE	C-N-CA	6.84	130.37	120.38
1	3J	173	ARG	CA-C-O	6.84	127.67	120.42
1	3O	29	GLU	N-CA-C	6.84	118.82	111.36
1	44	206	GLY	O-C-N	-6.84	114.93	121.77
1	4k	73	ILE	N-CA-C	6.84	117.60	110.62
1	4o	126	VAL	N-CA-C	6.84	119.60	111.05
1	4q	179	GLN	CA-C-N	6.84	130.01	120.29
1	4q	179	GLN	C-N-CA	6.84	130.01	120.29
1	4N	91	ILE	N-CA-CB	6.84	119.30	110.13
1	4P	48	THR	CA-C-N	6.84	126.09	118.97
1	4P	48	THR	C-N-CA	6.84	126.09	118.97
1	54	52	LEU	CA-C-N	6.84	129.78	120.54
1	54	52	LEU	C-N-CA	6.84	129.78	120.54
1	5x	195	ASN	CA-CB-CG	6.84	119.44	112.60
1	69	9	GLN	CA-C-N	6.84	132.43	120.87
1	69	9	GLN	C-N-CA	6.84	132.43	120.87
1	6x	218	CYS	CA-C-N	6.84	129.75	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6x	218	CYS	C-N-CA	6.84	129.75	120.38
1	6B	138	LEU	CA-C-N	6.84	129.78	120.54
1	6B	138	LEU	C-N-CA	6.84	129.78	120.54
1	6H	5	ASN	N-CA-CB	6.84	120.04	109.85
1	6L	173	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	6Y	198	CYS	CA-C-N	6.84	129.78	120.54
1	6Y	198	CYS	C-N-CA	6.84	129.78	120.54
1	70	62	HIS	CB-CG-CD2	-6.84	122.31	131.20
1	7c	195	ASN	CA-CB-CG	6.84	119.44	112.60
1	7s	36	VAL	O-C-N	-6.84	114.07	121.80
1	7A	118	MET	N-CA-C	6.84	120.89	112.54
1	7S	107	THR	N-CA-CB	6.84	120.79	110.19
1	8c	79	GLU	O-C-N	-6.84	114.87	122.12
1	8d	198	CYS	N-CA-C	-6.84	104.57	113.12
1	8x	191	VAL	CB-CA-C	6.84	119.88	110.99
1	8V	70	LYS	CA-C-N	6.84	130.01	120.29
1	8V	70	LYS	C-N-CA	6.84	130.01	120.29
1	9b	167	ARG	N-CA-C	6.84	118.74	111.28
1	9W	206	GLY	O-C-N	-6.84	114.93	121.77
1	a8	137	GLY	CA-C-N	6.84	129.75	120.38
1	a8	137	GLY	C-N-CA	6.84	129.75	120.38
1	10	113	GLU	CA-C-N	6.84	129.33	120.44
1	10	113	GLU	C-N-CA	6.84	129.33	120.44
1	bb	167	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	bf	188	THR	O-C-N	-6.84	111.87	122.13
1	bk	158	LYS	CA-C-O	6.84	129.41	121.34
1	bo	169	TYR	N-CA-C	6.84	118.74	111.28
1	bu	12	HIS	ND1-CE1-NE2	6.84	115.24	108.40
1	bv	160	PRO	CA-C-N	6.84	134.61	121.54
1	bv	160	PRO	C-N-CA	6.84	134.61	121.54
1	1d	143	ARG	N-CA-C	6.84	118.82	111.36
1	cq	93	PRO	CA-C-O	-6.84	113.63	121.36
1	cv	191	VAL	N-CA-C	6.84	117.60	110.62
1	cD	134	ILE	CA-C-N	6.84	129.83	120.46
1	cD	134	ILE	C-N-CA	6.84	129.83	120.46
1	1h	126	VAL	N-CA-C	6.84	117.54	110.36
1	dr	62	HIS	O-C-N	-6.84	114.37	122.58
1	dE	161	PHE	CA-C-N	6.84	129.75	120.38
1	dE	161	PHE	C-N-CA	6.84	129.75	120.38
1	dO	118	MET	N-CA-C	6.84	119.58	111.71
1	1n	101	GLY	N-CA-C	6.84	120.94	112.73
1	e3	14	ALA	N-CA-CB	-6.84	100.48	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1p	38	PRO	CA-C-N	6.84	129.45	120.28
1	1p	38	PRO	C-N-CA	6.84	129.45	120.28
1	et	25	LYS	N-CA-C	6.84	118.74	111.28
1	f9	14	ALA	N-CA-C	6.84	120.40	110.28
1	fg	167	ARG	N-CA-C	6.84	118.74	111.28
1	fl	36	VAL	CA-C-N	6.84	125.80	120.33
1	fl	36	VAL	C-N-CA	6.84	125.80	120.33
1	fz	47	ALA	N-CA-C	6.84	120.15	110.23
1	fC	214	MET	N-CA-C	6.84	118.74	111.28
1	fH	87	HIS	CA-CB-CG	6.84	120.64	113.80
1	fK	221	VAL	N-CA-C	6.84	118.17	108.93
1	fT	201	ILE	CA-C-O	6.84	128.61	121.29
1	g6	82	ARG	NH1-CZ-NH2	-6.84	110.41	119.30
1	m	143	ARG	O-C-N	6.84	129.37	122.12
1	A	92	GLU	CA-C-N	6.84	128.39	119.84
1	A	92	GLU	C-N-CA	6.84	128.39	119.84
1	F	33	SER	CA-C-N	6.84	128.39	119.84
1	F	33	SER	C-N-CA	6.84	128.39	119.84
1	W	141	ILE	O-C-N	6.84	128.62	121.91
1	gy	40	PHE	N-CA-CB	-6.84	100.07	110.12
1	gI	125	PRO	CA-C-N	6.84	129.83	120.46
1	gI	125	PRO	C-N-CA	6.84	129.83	120.46
1	hk	201	ILE	CA-C-N	6.84	129.33	120.44
1	hk	201	ILE	C-N-CA	6.84	129.33	120.44
1	is	97	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	is	133	TRP	CA-C-O	6.84	127.83	120.10
1	iK	26	VAL	O-C-N	-6.84	114.79	121.83
1	j2	81	ASP	O-C-N	-6.84	115.03	122.07
1	jo	170	LYS	CA-C-N	6.84	129.44	120.28
1	jo	170	LYS	C-N-CA	6.84	129.44	120.28
1	jx	144	MET	CA-C-O	-6.84	113.17	120.42
1	jz	153	ILE	CA-C-N	6.84	130.87	120.82
1	jz	153	ILE	C-N-CA	6.84	130.87	120.82
1	jL	135	ILE	CA-C-O	6.84	127.89	120.57
1	1Z	71	GLU	N-CA-C	6.84	118.39	111.07
1	k9	167	ARG	NE-CZ-NH2	-6.84	113.05	119.20
1	kY	67	GLN	N-CA-C	6.84	119.58	111.71
1	28	147	PRO	CA-C-N	6.84	134.60	121.54
1	28	147	PRO	C-N-CA	6.84	134.60	121.54
1	lP	37	ILE	N-CA-CB	6.84	115.78	110.45
1	2i	195	ASN	CA-C-O	-6.84	112.96	120.69
1	2D	165	VAL	CA-C-N	6.84	129.33	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2D	165	VAL	C-N-CA	6.84	129.33	120.44
1	37	10	MET	N-CA-C	6.84	119.64	109.59
1	3j	203	LYS	N-CA-C	6.84	119.61	111.33
1	3k	32	PHE	CA-CB-CG	-6.84	106.96	113.80
1	3q	84	HIS	CA-C-N	6.84	127.25	119.93
1	3q	84	HIS	C-N-CA	6.84	127.25	119.93
1	3U	26	VAL	CA-C-O	6.84	128.64	121.05
1	4l	161	PHE	CA-C-N	6.84	129.33	120.44
1	4l	161	PHE	C-N-CA	6.84	129.33	120.44
1	4Z	3	VAL	CA-CB-CG2	6.84	122.03	110.40
1	53	143	ARG	O-C-N	-6.84	114.87	122.12
1	5f	179	GLN	O-C-N	-6.84	114.87	122.12
1	5X	118	MET	CA-C-O	6.84	127.80	120.55
1	6r	197	ASP	CA-C-N	6.84	129.45	120.28
1	6r	197	ASP	C-N-CA	6.84	129.45	120.28
1	77	34	PRO	CA-C-N	6.84	130.13	120.28
1	77	34	PRO	C-N-CA	6.84	130.13	120.28
1	77	175	GLU	N-CA-C	6.84	120.29	110.10
1	7s	21	ASN	N-CA-C	-6.84	103.06	111.40
1	7V	191	VAL	N-CA-C	-6.84	106.14	112.43
1	85	209	ALA	CA-C-O	6.84	129.01	121.56
1	9d	41	SER	CA-C-N	6.84	129.44	120.28
1	9d	41	SER	C-N-CA	6.84	129.44	120.28
1	10	48	THR	CA-C-N	6.84	128.39	119.84
1	10	48	THR	C-N-CA	6.84	128.39	119.84
1	ab	115	ILE	CA-C-O	-6.84	113.92	121.17
1	ao	140	LYS	CA-C-N	6.84	129.18	120.56
1	ao	140	LYS	C-N-CA	6.84	129.18	120.56
1	ax	104	ILE	CA-C-N	6.84	129.44	120.28
1	ax	104	ILE	C-N-CA	6.84	129.44	120.28
1	aB	96	MET	N-CA-C	6.84	120.15	110.23
1	aV	33	SER	CA-C-O	-6.84	113.06	120.17
1	aX	210	THR	CA-C-N	6.84	132.07	121.19
1	aX	210	THR	C-N-CA	6.84	132.07	121.19
1	bb	29	GLU	CA-C-O	6.84	126.57	119.05
1	bV	152	ASP	N-CA-C	-6.84	104.97	113.38
1	cb	167	ARG	CA-C-N	6.84	129.44	120.28
1	cb	167	ARG	C-N-CA	6.84	129.44	120.28
1	ch	20	LEU	O-C-N	-6.84	115.03	122.07
1	cs	226	HIS	CG-CD2-NE2	6.84	114.04	107.20
1	ds	228	ALA	CA-C-N	6.84	130.87	120.82
1	ds	228	ALA	C-N-CA	6.84	130.87	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dC	57	ASN	CA-CB-CG	-6.84	105.76	112.60
1	dN	116	GLY	CA-C-N	6.84	129.77	120.54
1	dN	116	GLY	C-N-CA	6.84	129.77	120.54
1	1n	215	MET	CG-SD-CE	-6.84	85.85	100.90
1	eJ	164	TYR	N-CA-C	-6.84	103.28	111.69
1	eM	195	ASN	CA-CB-CG	6.84	119.44	112.60
1	eZ	143	ARG	CA-C-N	6.84	129.75	120.38
1	eZ	143	ARG	C-N-CA	6.84	129.75	120.38
1	f2	68	MET	N-CA-C	6.84	118.73	111.28
1	f8	4	GLN	N-CA-C	6.84	119.27	108.67
1	fZ	28	GLU	CA-C-O	-6.84	113.64	120.82
1	fZ	84	HIS	CB-CG-CD2	-6.84	122.31	131.20
1	g7	170	LYS	N-CA-C	6.84	118.73	111.28
1	c	64	ALA	N-CA-CB	-6.84	100.06	110.12
1	g	178	SER	O-C-N	-6.84	114.75	122.75
1	2	72	THR	N-CA-CB	6.84	119.93	110.01
1	x	195	ASN	OD1-CG-ND2	-6.84	115.76	122.60
1	X	26	VAL	CA-C-N	6.84	129.18	120.56
1	X	26	VAL	C-N-CA	6.84	129.18	120.56
1	ga	33	SER	CA-C-O	-6.84	114.45	120.60
1	hJ	42	ALA	N-CA-C	6.84	119.32	111.11
1	hW	85	PRO	N-CA-CB	-6.84	97.03	102.36
1	i6	164	TYR	O-C-N	-6.84	114.98	122.09
1	j9	60	GLY	O-C-N	-6.84	113.81	122.70
1	jF	141	ILE	CA-C-O	-6.84	113.94	121.05
1	ki	154	ARG	CA-C-N	6.84	131.53	122.30
1	ki	154	ARG	C-N-CA	6.84	131.53	122.30
1	lg	196	PRO	CA-C-N	6.84	130.13	120.28
1	lg	196	PRO	C-N-CA	6.84	130.13	120.28
1	lA	110	THR	CA-C-N	6.84	129.75	120.38
1	lA	110	THR	C-N-CA	6.84	129.75	120.38
1	2o	129	ILE	CA-C-O	6.84	128.06	120.95
1	3z	58	THR	N-CA-C	6.84	118.73	111.28
1	4T	92	GLU	CA-C-N	6.84	128.39	119.84
1	4T	92	GLU	C-N-CA	6.84	128.39	119.84
1	5P	226	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	6h	75	GLU	O-C-N	-6.84	115.03	122.07
1	6h	179	GLN	OE1-CD-NE2	6.84	129.44	122.60
1	6p	148	THR	O-C-N	-6.84	112.93	122.37
1	6Q	132	ARG	N-CA-C	6.84	119.32	111.11
1	7a	85	PRO	N-CA-C	6.84	121.56	111.03
1	7r	162	ARG	CA-C-N	6.84	129.33	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7r	162	ARG	C-N-CA	6.84	129.33	120.44
1	7s	12	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	8q	159	GLU	CA-C-N	6.84	126.80	119.76
1	8q	159	GLU	C-N-CA	6.84	126.80	119.76
1	8D	115	ILE	O-C-N	-6.84	115.24	121.87
1	9z	195	ASN	CA-C-N	6.84	127.11	119.32
1	9z	195	ASN	C-N-CA	6.84	127.11	119.32
1	b5	150	ILE	CA-C-O	6.84	128.06	120.95
1	bO	228	ALA	N-CA-C	-6.84	104.06	112.88
1	bV	174	ALA	N-CA-C	6.84	118.39	111.07
1	1b	102	SER	N-CA-C	6.84	119.75	111.82
1	cu	5	ASN	OD1-CG-ND2	6.84	129.44	122.60
1	d1	169	TYR	O-C-N	-6.84	113.86	122.27
1	d4	132	ARG	NE-CZ-NH2	-6.84	113.05	119.20
1	d7	33	SER	O-C-N	-6.84	113.77	121.43
1	dA	62	HIS	CA-CB-CG	-6.84	106.96	113.80
1	ev	168	PHE	CA-CB-CG	-6.84	106.96	113.80
1	eC	125	PRO	N-CA-CB	-6.84	97.50	102.35
1	eL	132	ARG	NE-CZ-NH2	-6.84	113.05	119.20
1	u	188	THR	CA-C-N	6.84	130.13	120.28
1	u	188	THR	C-N-CA	6.84	130.13	120.28
1	L	134	ILE	O-C-N	-6.84	115.24	121.87
1	ga	218	CYS	N-CA-C	6.84	120.99	112.24
1	gY	118	MET	N-CA-C	6.84	118.73	111.28
1	ha	50	GLN	N-CA-CB	6.84	119.92	110.01
1	hn	176	GLN	O-C-N	-6.84	114.94	122.67
1	hy	121	ASN	OD1-CG-ND2	-6.84	115.76	122.60
1	iL	40	PHE	CA-C-N	6.84	129.44	120.28
1	iL	40	PHE	C-N-CA	6.84	129.44	120.28
1	1T	71	GLU	CA-C-N	6.84	129.44	120.28
1	1T	71	GLU	C-N-CA	6.84	129.44	120.28
1	jf	62	HIS	CB-CG-CD2	-6.84	122.31	131.20
1	jq	27	VAL	O-C-N	-6.84	115.10	121.94
1	jq	74	ASN	CA-CB-CG	-6.84	105.76	112.60
1	jr	156	GLY	N-CA-C	6.84	120.50	112.23
1	ju	113	GLU	CB-CA-C	-6.84	99.23	110.85
1	k6	181	VAL	CA-C-N	6.84	130.00	120.29
1	k6	181	VAL	C-N-CA	6.84	130.00	120.29
1	kg	18	ARG	CA-C-O	-6.84	113.30	120.55
1	ki	154	ARG	O-C-N	-6.84	116.08	123.26
1	kq	118	MET	N-CA-C	6.84	118.81	111.36
1	kD	226	HIS	N-CA-C	6.84	119.65	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kG	26	VAL	CA-C-O	6.84	128.42	121.17
1	kI	85	PRO	CB-CA-C	6.84	122.84	111.56
1	kU	23	TRP	CA-C-O	6.84	127.80	120.55
1	ly	50	GLN	CB-CG-CD	6.84	124.22	112.60
1	2k	5	ASN	OD1-CG-ND2	-6.84	115.76	122.60
1	3g	82	ARG	CA-C-N	6.84	129.44	120.28
1	3g	82	ARG	C-N-CA	6.84	129.44	120.28
1	3k	105	ALA	O-C-N	-6.84	113.27	122.43
1	3A	143	ARG	NE-CZ-NH2	-6.84	113.05	119.20
1	3P	195	ASN	CA-C-O	-6.84	113.35	120.87
1	3W	169	TYR	CA-C-N	6.84	129.44	120.28
1	3W	169	TYR	C-N-CA	6.84	129.44	120.28
1	5e	11	VAL	CA-C-O	6.84	129.17	120.76
1	5g	113	GLU	CA-C-N	6.84	129.44	120.28
1	5g	113	GLU	C-N-CA	6.84	129.44	120.28
1	5n	71	GLU	N-CA-CB	6.84	120.31	110.06
1	5O	54	THR	CA-C-O	6.84	127.67	120.42
1	63	177	ALA	N-CA-C	6.84	120.14	110.23
1	72	88	ALA	CA-C-N	6.84	132.60	121.87
1	72	88	ALA	C-N-CA	6.84	132.60	121.87
1	7O	113	GLU	CA-C-N	6.84	129.33	120.44
1	7O	113	GLU	C-N-CA	6.84	129.33	120.44
1	7Y	70	LYS	N-CA-CB	6.84	120.31	110.06
1	8y	179	GLN	CA-C-N	6.84	130.12	120.28
1	8y	179	GLN	C-N-CA	6.84	130.12	120.28
1	9g	87	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	a1	2	ILE	O-C-N	-6.84	115.68	122.93
1	bh	128	GLU	CA-C-N	6.84	129.17	120.56
1	bh	128	GLU	C-N-CA	6.84	129.17	120.56
1	bq	144	MET	N-CA-C	6.84	118.52	111.14
1	cq	184	TRP	CA-C-N	6.84	129.44	120.28
1	cq	184	TRP	C-N-CA	6.84	129.44	120.28
1	cF	120	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
1	cF	151	LEU	O-C-N	6.84	129.37	122.12
1	cF	201	ILE	CA-C-N	6.84	129.75	120.38
1	cF	201	ILE	C-N-CA	6.84	129.75	120.38
1	d8	12	HIS	CA-CB-CG	6.84	120.64	113.80
1	da	132	ARG	NE-CZ-NH1	6.84	128.34	121.50
1	dv	62	HIS	ND1-CG-CD2	6.84	112.94	106.10
1	dC	16	SER	O-C-N	-6.84	114.17	121.42
1	1r	37	ILE	N-CA-CB	6.84	115.78	110.45
1	eA	134	ILE	O-C-N	6.84	128.59	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eH	119	THR	N-CA-C	-6.84	104.51	112.92
1	eY	194	ALA	N-CA-C	6.84	119.65	110.35
1	fd	215	MET	CA-C-O	6.84	127.80	120.55
1	fj	167	ARG	N-CA-C	6.84	118.73	111.28
1	fv	141	ILE	CA-C-O	-6.84	113.92	121.17
1	1y	51	ASP	CA-C-N	6.84	129.33	120.44
1	1y	51	ASP	C-N-CA	6.84	129.33	120.44
1	fQ	50	GLN	CB-CA-C	-6.84	100.15	110.88
1	j	70	LYS	CA-C-N	6.84	130.70	120.31
1	j	70	LYS	C-N-CA	6.84	130.70	120.31
1	gu	226	HIS	CG-CD2-NE2	6.83	114.03	107.20
1	ii	23	TRP	CA-C-O	-6.83	113.59	120.90
1	iZ	135	ILE	CA-C-N	6.83	129.44	120.28
1	iZ	135	ILE	C-N-CA	6.83	129.44	120.28
1	iZ	191	VAL	CA-C-N	6.83	133.08	122.49
1	iZ	191	VAL	C-N-CA	6.83	133.08	122.49
1	jN	137	GLY	CA-C-N	6.83	129.44	120.28
1	jN	137	GLY	C-N-CA	6.83	129.44	120.28
1	kj	56	LEU	CA-C-N	6.83	130.70	120.31
1	kj	56	LEU	C-N-CA	6.83	130.70	120.31
1	ku	147	PRO	N-CA-C	6.83	126.55	112.47
1	kK	21	ASN	CA-CB-CG	6.83	119.44	112.60
1	29	162	ARG	NH1-CZ-NH2	-6.83	110.41	119.30
1	2K	185	MET	N-CA-C	6.83	119.75	111.82
1	36	23	TRP	CB-CG-CD2	6.83	136.37	126.80
1	3b	131	LYS	CA-C-N	6.83	129.44	120.28
1	3b	131	LYS	C-N-CA	6.83	129.44	120.28
1	3S	167	ARG	N-CA-C	6.83	118.73	111.28
1	45	130	TYR	N-CA-C	6.83	118.73	111.28
1	4u	88	ALA	CA-C-N	6.83	132.60	121.87
1	4u	88	ALA	C-N-CA	6.83	132.60	121.87
1	52	36	VAL	N-CA-C	6.83	117.59	110.62
1	5b	168	PHE	CA-C-N	6.83	129.44	120.28
1	5b	168	PHE	C-N-CA	6.83	129.44	120.28
1	6H	88	ALA	N-CA-C	6.83	120.59	110.48
1	8J	6	LEU	N-CA-C	6.83	120.97	111.74
1	8M	179	GLN	N-CA-C	6.83	119.31	111.11
1	au	212	GLU	N-CA-C	6.83	119.60	111.33
1	b7	200	THR	CA-C-N	6.83	129.17	120.56
1	b7	200	THR	C-N-CA	6.83	129.17	120.56
1	bL	33	SER	CA-C-N	6.83	126.80	119.28
1	bL	33	SER	C-N-CA	6.83	126.80	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	198	CYS	O-C-N	-6.83	113.86	122.27
1	fY	161	PHE	CA-CB-CG	-6.83	106.97	113.80
1	T	76	GLU	N-CA-C	6.83	118.73	111.28
1	gb	69	LEU	CA-C-N	6.83	129.44	120.28
1	gb	69	LEU	C-N-CA	6.83	129.44	120.28
1	gi	194	ALA	CA-C-N	6.83	129.89	120.39
1	gi	194	ALA	C-N-CA	6.83	129.89	120.39
1	gp	97	ARG	N-CA-C	6.83	119.64	110.35
1	hA	111	LEU	N-CA-C	6.83	118.73	111.28
1	hD	62	HIS	CA-C-N	6.83	130.12	120.28
1	hD	62	HIS	C-N-CA	6.83	130.12	120.28
1	hN	64	ALA	CA-C-N	6.83	129.44	120.28
1	hN	64	ALA	C-N-CA	6.83	129.44	120.28
1	hY	37	ILE	CA-C-N	6.83	126.35	119.24
1	hY	37	ILE	C-N-CA	6.83	126.35	119.24
1	i9	179	GLN	N-CA-C	6.83	118.73	111.28
1	ia	87	HIS	N-CA-C	6.83	120.40	110.42
1	ib	5	ASN	CA-CB-CG	-6.83	105.77	112.60
1	iJ	28	GLU	N-CA-C	6.83	118.38	111.07
1	iV	100	ARG	O-C-N	-6.83	114.69	122.68
1	jd	82	ARG	NE-CZ-NH2	-6.83	113.05	119.20
1	je	21	ASN	O-C-N	-6.83	114.71	122.09
1	jf	20	LEU	CA-C-N	6.83	129.32	120.44
1	jf	20	LEU	C-N-CA	6.83	129.32	120.44
1	jj	227	LYS	CA-C-N	6.83	131.82	122.19
1	jj	227	LYS	C-N-CA	6.83	131.82	122.19
1	k0	160	PRO	N-CA-CB	6.83	109.26	103.25
1	k7	139	ASN	CA-CB-CG	-6.83	105.77	112.60
1	ko	200	THR	CA-C-N	6.83	129.17	120.56
1	ko	200	THR	C-N-CA	6.83	129.17	120.56
1	23	2	ILE	N-CA-CB	6.83	119.62	110.26
1	kW	76	GLU	N-CA-C	6.83	118.73	111.28
1	l4	186	THR	O-C-N	-6.83	114.71	122.09
1	lu	113	GLU	CA-C-N	6.83	129.73	120.44
1	lu	113	GLU	C-N-CA	6.83	129.73	120.44
1	2k	185	MET	CA-C-N	6.83	132.30	120.68
1	2k	185	MET	C-N-CA	6.83	132.30	120.68
1	2F	184	TRP	CB-CG-CD2	-6.83	117.23	126.80
1	2G	14	ALA	N-CA-C	6.83	119.64	110.35
1	3k	210	THR	O-C-N	-6.83	115.24	123.10
1	3z	152	ASP	CA-C-O	-6.83	111.36	119.35
1	3R	219	GLN	CA-C-O	6.83	127.66	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	52	LEU	CA-C-O	6.83	127.74	120.70
1	4N	167	ARG	N-CA-C	6.83	118.73	111.28
1	5v	222	GLY	O-C-N	6.83	131.58	122.70
1	5I	178	SER	CA-C-O	-6.83	113.89	121.89
1	6o	198	CYS	N-CA-C	6.83	118.73	111.28
1	6D	78	ALA	CA-C-N	6.83	129.32	120.44
1	6D	78	ALA	C-N-CA	6.83	129.32	120.44
1	6M	133	TRP	CA-C-N	6.83	129.17	120.56
1	6M	133	TRP	C-N-CA	6.83	129.17	120.56
1	6S	84	HIS	CA-C-O	-6.83	113.20	119.62
1	7k	28	GLU	N-CA-C	6.83	119.31	111.11
1	8c	58	THR	CA-CB-OG1	6.83	119.85	109.60
1	8c	189	LEU	CA-C-N	6.83	129.44	120.28
1	8c	189	LEU	C-N-CA	6.83	129.44	120.28
1	8B	77	ALA	O-C-N	-6.83	114.36	122.15
1	97	78	ALA	N-CA-C	6.83	118.73	111.28
1	9i	208	ALA	N-CA-CB	-6.83	101.52	111.91
1	ad	41	SER	CA-C-O	6.83	127.66	120.42
1	aI	92	GLU	CA-C-O	-6.83	113.06	120.17
1	aK	68	MET	CA-C-N	6.83	129.73	120.44
1	aK	68	MET	C-N-CA	6.83	129.73	120.44
1	aN	27	VAL	O-C-N	-6.83	115.21	121.91
1	aV	226	HIS	ND1-CE1-NE2	6.83	115.23	108.40
1	15	123	PRO	CA-C-O	6.83	128.77	121.32
1	16	67	GLN	O-C-N	-6.83	114.36	122.15
1	bg	41	SER	CA-C-N	6.83	129.44	120.28
1	bg	41	SER	C-N-CA	6.83	129.44	120.28
1	bB	223	GLY	CA-C-N	6.83	128.38	119.84
1	bB	223	GLY	C-N-CA	6.83	128.38	119.84
1	bR	199	LYS	N-CA-C	6.83	118.73	111.28
1	c2	87	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	cp	150	ILE	N-CA-C	6.83	117.59	110.62
1	dd	124	ILE	N-CA-C	-6.83	100.78	107.55
1	dV	69	LEU	CA-C-N	6.83	129.44	120.28
1	dV	69	LEU	C-N-CA	6.83	129.44	120.28
1	e1	216	THR	CA-C-N	6.83	131.07	120.75
1	e1	216	THR	C-N-CA	6.83	131.07	120.75
1	1t	71	GLU	CA-C-N	6.83	129.99	120.29
1	1t	71	GLU	C-N-CA	6.83	129.99	120.29
1	eW	30	LYS	CA-C-O	6.83	127.54	119.48
1	1v	95	GLN	N-CA-C	-6.83	98.59	109.59
1	fZ	146	SER	N-CA-CB	6.83	120.09	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	100	ARG	NE-CZ-NH2	-6.83	113.05	119.20
1	A	124	ILE	N-CA-C	-6.83	100.78	107.55
1	C	54	THR	O-C-N	-6.83	114.71	122.09
1	gi	158	LYS	CA-C-N	6.83	129.94	120.65
1	gi	158	LYS	C-N-CA	6.83	129.94	120.65
1	go	132	ARG	CA-C-O	6.83	127.79	120.55
1	gq	152	ASP	CA-CB-CG	-6.83	105.77	112.60
1	gH	169	TYR	N-CA-C	6.83	118.73	111.28
1	gM	21	ASN	CA-CB-CG	6.83	119.43	112.60
1	gM	82	ARG	NE-CZ-NH2	6.83	125.35	119.20
1	hc	99	PRO	CA-C-O	-6.83	112.93	120.92
1	hd	16	SER	O-C-N	-6.83	112.35	121.64
1	i5	120	HIS	CG-CD2-NE2	6.83	114.03	107.20
1	iv	4	GLN	O-C-N	-6.83	113.50	122.59
1	1R	179	GLN	N-CA-C	6.83	119.31	111.11
1	iN	214	MET	O-C-N	-6.83	114.36	122.15
1	iZ	67	GLN	CB-CG-CD	6.83	124.21	112.60
1	jB	79	GLU	CA-C-O	6.83	127.79	120.55
1	jI	155	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	jN	217	ALA	N-CA-CB	-6.83	99.69	110.28
1	kn	169	TYR	N-CA-C	6.83	118.38	111.07
1	kp	144	MET	N-CA-C	6.83	118.73	111.28
1	kq	228	ALA	N-CA-C	6.83	120.28	110.10
1	kL	170	LYS	N-CA-C	6.83	118.73	111.28
1	24	195	ASN	CA-C-N	6.83	128.38	119.84
1	24	195	ASN	C-N-CA	6.83	128.38	119.84
1	kY	91	ILE	CB-CA-C	6.83	119.22	110.96
1	le	129	ILE	N-CA-C	6.83	117.59	110.62
1	2s	40	PHE	CB-CG-CD2	-6.83	109.08	120.70
1	2t	57	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	4b	103	ASP	CA-CB-CG	-6.83	105.77	112.60
1	4j	162	ARG	NE-CZ-NH2	-6.83	113.05	119.20
1	4I	65	ALA	CB-CA-C	6.83	121.69	110.90
1	5s	140	LYS	CA-C-N	6.83	129.41	120.60
1	5s	140	LYS	C-N-CA	6.83	129.41	120.60
1	5x	181	VAL	N-CA-C	6.83	117.62	110.72
1	5M	153	ILE	N-CA-C	6.83	119.47	109.63
1	61	169	TYR	CA-C-N	6.83	129.43	120.28
1	61	169	TYR	C-N-CA	6.83	129.43	120.28
1	6t	184	TRP	CB-CG-CD1	-6.83	116.65	126.90
1	7a	68	MET	O-C-N	-6.83	114.88	122.12
1	7h	162	ARG	NE-CZ-NH1	6.83	128.33	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	128	GLU	CB-CA-C	-6.83	99.23	110.85
1	7Z	138	LEU	CA-C-N	6.83	129.43	120.28
1	7Z	138	LEU	C-N-CA	6.83	129.43	120.28
1	88	76	GLU	N-CA-C	6.83	119.75	111.82
1	89	18	ARG	N-CA-C	-6.83	103.29	111.69
1	8j	158	LYS	O-C-N	6.83	130.88	122.34
1	8K	153	ILE	CA-C-N	6.83	132.84	122.93
1	8K	153	ILE	C-N-CA	6.83	132.84	122.93
1	99	118	MET	N-CA-C	6.83	119.57	111.71
1	9a	162	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	9f	55	MET	N-CA-C	6.83	118.38	111.07
1	9o	229	ARG	NE-CZ-NH1	-6.83	114.67	121.50
1	9p	5	ASN	CA-CB-CG	6.83	119.43	112.60
1	9t	73	ILE	CA-C-N	6.83	129.32	120.44
1	9t	73	ILE	C-N-CA	6.83	129.32	120.44
1	a0	124	ILE	O-C-N	-6.83	112.39	120.66
1	ab	7	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	ah	39	MET	O-C-N	-6.83	115.03	122.07
1	ap	201	ILE	N-CA-C	6.83	117.59	110.62
1	ba	79	GLU	CA-C-N	6.83	130.12	120.28
1	ba	79	GLU	C-N-CA	6.83	130.12	120.28
1	bu	16	SER	CA-C-N	6.83	126.63	119.05
1	bu	16	SER	C-N-CA	6.83	126.63	119.05
1	bz	143	ARG	CD-NE-CZ	-6.83	114.83	124.40
1	bL	215	MET	N-CA-C	6.83	118.73	111.28
1	cQ	179	GLN	CA-C-N	6.83	129.44	120.28
1	cQ	179	GLN	C-N-CA	6.83	129.44	120.28
1	dh	142	VAL	N-CA-C	6.83	117.59	110.62
1	e5	85	PRO	N-CA-C	6.83	121.93	111.34
1	e6	16	SER	CA-CB-OG	6.83	124.76	111.10
1	et	28	GLU	CA-C-N	6.83	129.43	120.28
1	et	28	GLU	C-N-CA	6.83	129.43	120.28
1	eQ	143	ARG	NE-CZ-NH2	6.83	125.35	119.20
1	eU	53	ASN	CA-C-N	6.83	129.76	120.54
1	eU	53	ASN	C-N-CA	6.83	129.76	120.54
1	eW	217	ALA	CA-C-O	6.83	128.79	121.55
1	fe	31	ALA	O-C-N	-6.83	113.50	122.59
1	1x	43	LEU	N-CA-C	-6.83	104.76	113.23
1	fY	101	GLY	N-CA-C	6.83	121.17	112.83
1	g6	98	GLU	O-C-N	-6.83	115.05	121.20
1	m	159	GLU	CA-C-O	-6.83	113.33	119.75
1	R	46	GLY	CA-C-O	6.83	127.47	119.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	he	154	ARG	CA-C-N	6.83	131.27	121.50
1	he	154	ARG	C-N-CA	6.83	131.27	121.50
1	j9	26	VAL	N-CA-C	6.83	117.59	110.62
1	jz	167	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
1	1Z	23	TRP	CB-CG-CD2	6.83	136.36	126.80
1	k1	203	LYS	N-CA-C	6.83	118.38	111.07
1	ki	205	LEU	CA-C-O	6.83	127.78	119.38
1	l4	16	SER	CA-C-O	-6.83	113.33	119.75
1	la	11	VAL	O-C-N	-6.83	115.24	122.68
1	lm	119	THR	CA-C-N	6.83	134.59	121.54
1	lm	119	THR	C-N-CA	6.83	134.59	121.54
1	lA	143	ARG	CD-NE-CZ	6.83	133.96	124.40
1	2a	206	GLY	CA-C-N	6.83	126.79	119.28
1	2a	206	GLY	C-N-CA	6.83	126.79	119.28
1	2r	101	GLY	N-CA-C	6.83	122.19	113.24
1	33	108	THR	N-CA-CB	6.83	120.92	110.61
1	3z	73	ILE	CA-C-N	6.83	129.43	120.28
1	3z	73	ILE	C-N-CA	6.83	129.43	120.28
1	3D	122	PRO	CA-C-N	6.83	126.86	119.89
1	3D	122	PRO	C-N-CA	6.83	126.86	119.89
1	4q	88	ALA	O-C-N	-6.83	115.05	123.04
1	4V	129	ILE	CB-CA-C	-6.83	102.92	112.14
1	5l	100	ARG	CD-NE-CZ	-6.83	114.84	124.40
1	5Z	25	LYS	CA-C-N	6.83	129.17	120.56
1	5Z	25	LYS	C-N-CA	6.83	129.17	120.56
1	6k	186	THR	N-CA-C	6.83	118.38	111.07
1	86	130	TYR	CA-C-N	6.83	129.43	120.28
1	86	130	TYR	C-N-CA	6.83	129.43	120.28
1	8a	46	GLY	CA-C-N	6.83	130.41	120.71
1	8a	46	GLY	C-N-CA	6.83	130.41	120.71
1	8l	182	LYS	N-CA-C	6.83	119.56	111.71
1	9j	152	ASP	O-C-N	-6.83	113.51	122.59
1	9X	37	ILE	CA-C-O	6.83	123.27	118.69
1	ab	121	ASN	CB-CA-C	6.83	117.30	110.33
1	aQ	185	MET	CB-CA-C	6.83	121.60	110.88
1	aR	33	SER	CA-C-O	-6.83	114.06	120.34
1	bv	33	SER	N-CA-C	-6.83	100.29	108.14
1	bU	122	PRO	CA-C-N	6.83	126.79	119.76
1	bU	122	PRO	C-N-CA	6.83	126.79	119.76
1	c2	76	GLU	N-CA-C	6.83	118.72	111.28
1	cp	25	LYS	N-CA-C	6.83	119.74	111.82
1	cY	113	GLU	CA-C-N	6.83	129.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cY	113	GLU	C-N-CA	6.83	129.43	120.28
1	d6	224	PRO	N-CA-CB	6.83	109.83	103.41
1	dc	142	VAL	N-CA-CB	6.83	118.54	110.55
1	dw	7	GLN	N-CA-CB	6.83	120.14	109.83
1	dx	132	ARG	N-CA-C	6.83	119.31	111.11
1	ej	92	GLU	CB-CG-CD	-6.83	100.99	112.60
1	1w	117	TRP	CA-C-N	6.83	130.12	120.28
1	1w	117	TRP	C-N-CA	6.83	130.12	120.28
1	g1	32	PHE	CA-C-O	6.83	128.08	120.43
1	gO	30	LYS	CA-C-O	6.83	126.39	119.97
1	gY	41	SER	CA-C-O	6.83	127.73	120.70
1	hf	48	THR	CA-C-N	6.83	127.39	119.47
1	hf	48	THR	C-N-CA	6.83	127.39	119.47
1	hh	5	ASN	OD1-CG-ND2	6.83	129.43	122.60
1	hY	114	GLN	O-C-N	-6.83	114.88	122.12
1	ik	63	GLN	N-CA-C	6.83	121.36	112.89
1	iV	60	GLY	CA-C-N	6.83	128.69	121.45
1	iV	60	GLY	C-N-CA	6.83	128.69	121.45
1	iW	120	HIS	CA-CB-CG	6.83	120.63	113.80
1	iX	120	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	jo	29	GLU	N-CA-C	6.83	118.72	111.28
1	ju	78	ALA	N-CA-C	6.83	118.38	111.07
1	jL	82	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	jM	226	HIS	CG-CD2-NE2	6.83	114.03	107.20
1	k5	97	ARG	NE-CZ-NH1	-6.83	114.67	121.50
1	kp	7	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	la	42	ALA	N-CA-C	6.83	118.72	111.28
1	lc	27	VAL	O-C-N	-6.83	115.25	121.87
1	2o	186	THR	N-CA-C	6.83	119.30	111.11
1	2q	67	GLN	O-C-N	-6.83	115.04	122.07
1	47	217	ALA	O-C-N	-6.83	114.76	122.75
1	4h	201	ILE	O-C-N	-6.83	114.80	121.83
1	58	185	MET	CA-C-N	6.83	129.43	120.28
1	58	185	MET	C-N-CA	6.83	129.43	120.28
1	5H	37	ILE	O-C-N	-6.83	116.05	120.42
1	64	168	PHE	CB-CA-C	6.83	121.60	110.88
1	6E	27	VAL	CA-C-N	6.83	129.66	120.65
1	6E	27	VAL	C-N-CA	6.83	129.66	120.65
1	6M	226	HIS	CG-CD2-NE2	6.83	114.03	107.20
1	6P	113	GLU	N-CA-C	6.83	118.41	110.97
1	71	214	MET	CG-SD-CE	-6.83	85.88	100.90
1	78	102	SER	O-C-N	-6.83	115.04	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7f	49	PRO	O-C-N	-6.83	114.39	122.24
1	7o	76	GLU	N-CA-C	6.83	118.72	111.28
1	7Q	229	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
1	7U	230	VAL	O-C-N	-6.83	115.69	123.00
1	8g	172	LEU	CA-C-N	6.83	129.74	120.38
1	8g	172	LEU	C-N-CA	6.83	129.74	120.38
1	8Y	51	ASP	CB-CA-C	-6.83	99.46	110.79
1	9g	114	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	9B	218	CYS	CA-C-O	6.83	127.89	120.58
1	ah	100	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	at	73	ILE	N-CA-CB	-6.83	102.56	110.55
1	aC	48	THR	CA-C-N	6.83	126.34	119.24
1	aC	48	THR	C-N-CA	6.83	126.34	119.24
1	aX	140	LYS	CA-C-O	6.83	127.81	120.10
1	bi	163	ASP	CA-CB-CG	-6.83	105.77	112.60
1	cd	139	ASN	CA-C-O	6.83	127.79	120.55
1	cD	71	GLU	O-C-N	-6.83	114.23	122.22
1	df	27	VAL	N-CA-C	6.83	117.53	110.36
1	dh	221	VAL	N-CA-CB	-6.83	103.20	112.28
1	dt	20	LEU	CA-C-O	6.83	127.99	120.82
1	dx	21	ASN	CA-CB-CG	-6.83	105.77	112.60
1	dC	97	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	dG	87	HIS	CA-CB-CG	-6.83	106.97	113.80
1	1m	154	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
1	ep	2	ILE	CA-C-N	6.83	131.91	123.10
1	ep	2	ILE	C-N-CA	6.83	131.91	123.10
1	ep	34	PRO	CA-C-N	6.83	131.06	120.82
1	ep	34	PRO	C-N-CA	6.83	131.06	120.82
1	eQ	56	LEU	N-CA-C	6.83	118.72	111.28
1	fo	212	GLU	O-C-N	-6.83	114.99	122.09
1	fw	84	HIS	CA-CB-CG	-6.83	106.97	113.80
1	fI	146	SER	O-C-N	6.83	128.94	121.36
1	fJ	178	SER	N-CA-CB	6.83	120.08	110.04
1	fN	133	TRP	CB-CG-CD2	-6.83	117.24	126.80
1	fO	33	SER	N-CA-CB	6.83	118.29	110.03
1	fU	138	LEU	N-CA-C	-6.83	103.92	111.36
1	s	2	ILE	CA-CB-CG1	6.83	122.01	110.40
1	V	87	HIS	CA-C-N	6.83	130.57	120.87
1	V	87	HIS	C-N-CA	6.83	130.57	120.87
1	9	216	THR	CA-C-N	6.83	129.43	120.28
1	9	216	THR	C-N-CA	6.83	129.43	120.28
1	gl	62	HIS	CE1-NE2-CD2	-6.83	102.17	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	36	VAL	O-C-N	-6.83	115.25	121.87
1	hD	154	ARG	NH1-CZ-NH2	-6.83	110.42	119.30
1	1L	223	GLY	CA-C-N	6.83	127.23	119.93
1	1L	223	GLY	C-N-CA	6.83	127.23	119.93
1	hQ	191	VAL	N-CA-C	6.83	117.58	110.62
1	ir	175	GLU	N-CA-C	6.83	119.87	110.24
1	iP	177	ALA	CA-C-N	6.83	134.58	121.54
1	iP	177	ALA	C-N-CA	6.83	134.58	121.54
1	j8	173	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	21	138	LEU	CA-C-N	6.83	129.43	120.28
1	21	138	LEU	C-N-CA	6.83	129.43	120.28
1	25	15	ILE	N-CA-C	6.83	123.54	109.34
1	l7	167	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	ld	82	ARG	N-CA-C	6.83	118.72	111.28
1	lE	139	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	2y	181	VAL	N-CA-C	6.83	117.61	110.72
1	2F	179	GLN	N-CA-C	6.83	119.59	111.33
1	3u	229	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	3L	72	THR	O-C-N	-6.83	114.88	122.12
1	4h	76	GLU	CA-C-N	6.83	129.31	120.44
1	4h	76	GLU	C-N-CA	6.83	129.31	120.44
1	4B	61	GLY	CA-C-N	6.83	132.06	122.36
1	4B	61	GLY	C-N-CA	6.83	132.06	122.36
1	4H	50	GLN	CA-C-O	6.83	127.66	120.42
1	4S	43	LEU	N-CA-C	6.83	118.72	111.28
1	54	24	VAL	CA-C-N	6.83	129.76	120.54
1	54	24	VAL	C-N-CA	6.83	129.76	120.54
1	6i	53	ASN	CA-CB-CG	-6.83	105.77	112.60
1	6l	61	GLY	O-C-N	-6.83	115.56	122.59
1	6v	156	GLY	O-C-N	-6.83	114.94	121.77
1	6O	5	ASN	OD1-CG-ND2	-6.83	115.77	122.60
1	7D	125	PRO	N-CA-CB	-6.83	96.08	103.25
1	7K	56	LEU	O-C-N	-6.83	114.88	122.12
1	8m	218	CYS	N-CA-C	6.83	120.50	111.28
1	9r	3	VAL	N-CA-C	6.83	117.72	107.75
1	bP	226	HIS	CA-CB-CG	6.83	120.63	113.80
1	cg	83	LEU	N-CA-C	6.83	119.30	111.11
1	cw	36	VAL	CA-C-N	6.83	125.79	120.33
1	cw	36	VAL	C-N-CA	6.83	125.79	120.33
1	di	73	ILE	N-CA-CB	6.83	118.54	110.55
1	dw	87	HIS	CG-CD2-NE2	6.83	114.03	107.20
1	dS	204	ALA	CA-C-N	6.83	129.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dS	204	ALA	C-N-CA	6.83	129.43	120.28
1	ev	45	GLU	N-CA-C	6.83	118.72	111.28
1	p	129	ILE	O-C-N	-6.83	114.80	121.90
1	N	112	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	hY	222	GLY	CA-C-N	6.83	132.59	121.87
1	hY	222	GLY	C-N-CA	6.83	132.59	121.87
1	iu	78	ALA	CA-C-N	6.83	129.98	120.29
1	iu	78	ALA	C-N-CA	6.83	129.98	120.29
1	1Q	192	GLN	N-CA-C	6.83	119.59	111.33
1	iE	189	LEU	CA-C-N	6.83	129.31	120.44
1	iE	189	LEU	C-N-CA	6.83	129.31	120.44
1	j3	124	ILE	N-CA-C	-6.83	100.30	107.60
1	1W	162	ARG	O-C-N	-6.83	114.89	122.12
1	jD	45	GLU	N-CA-C	6.83	125.34	110.80
1	jJ	112	GLN	N-CA-C	6.83	118.72	111.28
1	kh	124	ILE	O-C-N	-6.83	116.70	121.55
1	kn	9	GLN	CA-C-N	6.83	130.51	120.95
1	kn	9	GLN	C-N-CA	6.83	130.51	120.95
1	ks	186	THR	CB-CA-C	6.83	122.12	110.79
1	kO	126	VAL	O-C-N	-6.83	115.25	121.87
1	kW	23	TRP	O-C-N	-6.83	115.04	122.07
1	li	80	TRP	N-CA-C	6.83	119.30	111.11
1	lt	84	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	lw	174	ALA	O-C-N	-6.83	113.52	122.39
1	2q	173	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	2r	195	ASN	CB-CA-C	6.83	120.26	109.27
1	3f	125	PRO	N-CA-CB	-6.83	97.75	102.73
1	3x	189	LEU	O-C-N	6.83	129.93	122.15
1	3G	133	TRP	CA-C-N	6.83	129.16	120.56
1	3G	133	TRP	C-N-CA	6.83	129.16	120.56
1	46	220	GLY	CA-C-N	6.83	131.36	121.80
1	46	220	GLY	C-N-CA	6.83	131.36	121.80
1	4k	52	LEU	CA-C-O	6.83	127.78	120.55
1	4o	33	SER	CA-C-N	6.83	126.52	119.56
1	4o	33	SER	C-N-CA	6.83	126.52	119.56
1	4M	122	PRO	CA-C-N	6.83	126.86	119.90
1	4M	122	PRO	C-N-CA	6.83	126.86	119.90
1	5d	154	ARG	NE-CZ-NH1	6.83	128.33	121.50
1	5z	114	GLN	OE1-CD-NE2	-6.83	115.78	122.60
1	5K	122	PRO	N-CD-CG	6.83	111.99	103.80
1	5O	20	LEU	CA-C-N	6.83	129.43	120.28
1	5O	20	LEU	C-N-CA	6.83	129.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	66	119	THR	CA-C-N	6.83	132.41	120.87
1	66	119	THR	C-N-CA	6.83	132.41	120.87
1	6C	12	HIS	N-CA-C	6.83	120.20	109.96
1	72	206	GLY	O-C-N	-6.83	114.94	121.77
1	81	87	HIS	ND1-CE1-NE2	6.83	115.22	108.40
1	84	44	SER	CA-C-O	6.83	127.81	120.10
1	8x	168	PHE	O-C-N	-6.83	114.72	122.09
1	8Q	32	PHE	CA-CB-CG	-6.83	106.97	113.80
1	9h	134	ILE	N-CA-C	6.83	117.58	110.62
1	9L	42	ALA	N-CA-C	6.83	120.49	111.75
1	a0	101	GLY	CA-C-N	6.83	129.43	120.28
1	a0	101	GLY	C-N-CA	6.83	129.43	120.28
1	ac	146	SER	CA-C-N	6.83	128.37	119.84
1	ac	146	SER	C-N-CA	6.83	128.37	119.84
1	at	170	LYS	O-C-N	-6.83	114.89	122.12
1	aC	4	GLN	OE1-CD-NE2	-6.83	115.77	122.60
1	aS	37	ILE	O-C-N	-6.83	116.05	120.42
1	aX	134	ILE	N-CA-C	6.83	116.97	110.42
1	b4	152	ASP	CA-CB-CG	6.83	119.42	112.60
1	b6	134	ILE	CA-C-N	6.83	129.81	120.46
1	b6	134	ILE	C-N-CA	6.83	129.81	120.46
1	bS	139	ASN	O-C-N	-6.83	114.89	122.12
1	c9	167	ARG	CA-C-N	6.83	129.31	120.44
1	c9	167	ARG	C-N-CA	6.83	129.31	120.44
1	ch	67	GLN	CA-C-N	6.83	129.31	120.44
1	ch	67	GLN	C-N-CA	6.83	129.31	120.44
1	dw	152	ASP	CA-CB-CG	6.83	119.43	112.60
1	dO	185	MET	CA-C-N	6.83	129.31	120.44
1	dO	185	MET	C-N-CA	6.83	129.31	120.44
1	dU	143	ARG	O-C-N	-6.83	114.37	122.15
1	1o	173	ARG	CA-C-N	6.83	129.43	120.28
1	1o	173	ARG	C-N-CA	6.83	129.43	120.28
1	e4	93	PRO	CB-CA-C	6.83	119.97	111.23
1	1t	62	HIS	ND1-CG-CD2	6.83	112.92	106.10
1	eX	175	GLU	N-CA-C	6.83	120.27	110.10
1	1u	140	LYS	N-CA-CB	6.83	120.26	110.16
1	1w	226	HIS	CE1-NE2-CD2	-6.83	102.17	109.00
1	fZ	163	ASP	CA-CB-CG	6.83	119.42	112.60
1	k	230	VAL	N-CA-C	6.83	117.58	110.62
1	m	184	TRP	N-CA-C	6.83	119.59	111.33
1	p	50	GLN	CA-C-N	6.83	129.31	120.44
1	p	50	GLN	C-N-CA	6.83	129.31	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	198	CYS	CA-C-N	6.83	129.43	120.28
1	r	198	CYS	C-N-CA	6.83	129.43	120.28
1	x	116	GLY	CA-C-N	6.83	129.72	120.44
1	x	116	GLY	C-N-CA	6.83	129.72	120.44
1	N	120	HIS	CA-CB-CG	6.83	120.62	113.80
1	g8	199	LYS	N-CA-C	6.82	119.30	111.11
1	gB	175	GLU	N-CA-C	6.82	119.56	111.71
1	gL	87	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	gS	200	THR	OG1-CB-CG2	-6.82	95.65	109.30
1	h9	178	SER	CA-C-O	-6.82	114.12	121.56
1	hC	215	MET	CG-SD-CE	-6.82	85.89	100.90
1	jq	140	LYS	N-CA-C	6.82	119.74	111.82
1	jw	123	PRO	CA-C-O	-6.82	113.56	121.34
1	jC	47	ALA	CA-C-O	6.82	129.32	121.47
1	1X	38	PRO	N-CD-CG	6.82	113.43	103.20
1	jK	37	ILE	N-CA-CB	6.82	115.77	110.45
1	1Y	72	THR	CA-C-N	6.82	130.15	120.53
1	1Y	72	THR	C-N-CA	6.82	130.15	120.53
1	jR	100	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	jX	126	VAL	N-CA-CB	6.82	119.00	110.47
1	kP	19	THR	N-CA-C	6.82	118.51	111.14
1	lA	206	GLY	CA-C-N	-6.82	113.17	120.47
1	lA	206	GLY	C-N-CA	-6.82	113.17	120.47
1	lL	126	VAL	N-CA-CB	6.82	119.00	110.47
1	2o	204	ALA	CA-C-N	6.82	129.31	120.44
1	2o	204	ALA	C-N-CA	6.82	129.31	120.44
1	2H	210	THR	O-C-N	6.82	131.20	122.81
1	2R	46	GLY	CA-C-O	6.82	126.59	119.02
1	3m	74	ASN	CA-CB-CG	6.82	119.42	112.60
1	3x	140	LYS	CA-C-N	6.82	130.11	120.42
1	3x	140	LYS	C-N-CA	6.82	130.11	120.42
1	3G	202	LEU	N-CA-C	6.82	119.56	111.71
1	3I	35	GLU	N-CA-C	-6.82	104.96	113.28
1	3N	126	VAL	CA-C-N	6.82	127.56	119.98
1	3N	126	VAL	C-N-CA	6.82	127.56	119.98
1	3O	123	PRO	N-CA-C	6.82	121.93	111.15
1	42	213	GLU	N-CA-C	6.82	118.37	111.07
1	45	130	TYR	CA-C-N	6.82	129.75	120.54
1	45	130	TYR	C-N-CA	6.82	129.75	120.54
1	48	77	ALA	N-CA-C	6.82	118.37	111.07
1	48	165	VAL	CA-C-N	6.82	129.31	120.44
1	48	165	VAL	C-N-CA	6.82	129.31	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Y	92	GLU	O-C-N	-6.82	113.47	121.32
1	51	186	THR	CA-C-O	6.82	127.54	119.56
1	55	216	THR	N-CA-CB	6.82	120.52	110.56
1	6z	21	ASN	CA-CB-CG	6.82	119.42	112.60
1	6G	2	ILE	O-C-N	-6.82	116.02	123.18
1	6O	170	LYS	N-CA-CB	6.82	120.15	110.12
1	6W	50	GLN	CA-C-N	6.82	129.42	120.28
1	6W	50	GLN	C-N-CA	6.82	129.42	120.28
1	7d	27	VAL	O-C-N	-6.82	115.12	121.94
1	7d	168	PHE	N-CA-CB	-6.82	100.12	110.01
1	7q	216	THR	CA-C-N	6.82	133.16	121.29
1	7q	216	THR	C-N-CA	6.82	133.16	121.29
1	7H	132	ARG	CA-C-N	6.82	129.72	120.44
1	7H	132	ARG	C-N-CA	6.82	129.72	120.44
1	8h	62	HIS	CA-CB-CG	-6.82	106.98	113.80
1	97	168	PHE	CB-CA-C	6.82	121.59	110.88
1	9t	64	ALA	CA-C-N	6.82	129.31	120.44
1	9t	64	ALA	C-N-CA	6.82	129.31	120.44
1	10	140	LYS	CA-C-O	6.82	127.78	120.55
1	11	162	ARG	N-CA-C	6.82	118.72	111.28
1	13	51	ASP	CA-CB-CG	-6.82	105.78	112.60
1	aE	41	SER	CA-C-N	6.82	129.42	120.28
1	aE	41	SER	C-N-CA	6.82	129.42	120.28
1	ba	182	LYS	CA-C-N	6.82	129.42	120.28
1	ba	182	LYS	C-N-CA	6.82	129.42	120.28
1	bf	170	LYS	CA-C-N	6.82	129.42	120.28
1	bf	170	LYS	C-N-CA	6.82	129.42	120.28
1	bk	42	ALA	CA-C-N	6.82	129.42	120.28
1	bk	42	ALA	C-N-CA	6.82	129.42	120.28
1	bB	154	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	cF	9	GLN	N-CA-C	-6.82	96.20	108.48
1	cV	34	PRO	CA-C-N	6.82	130.68	120.31
1	cV	34	PRO	C-N-CA	6.82	130.68	120.31
1	1l	76	GLU	CA-C-O	-6.82	113.19	120.42
1	dB	200	THR	CB-CA-C	6.82	122.12	110.79
1	dD	103	ASP	CA-CB-CG	6.82	119.42	112.60
1	e5	131	LYS	N-CA-C	6.82	118.72	111.28
1	el	62	HIS	N-CA-CB	-6.82	101.86	111.62
1	fo	15	ILE	CA-C-O	6.82	128.87	121.36
1	r	23	TRP	CA-C-N	6.82	129.81	120.46
1	r	23	TRP	C-N-CA	6.82	129.81	120.46
1	gG	26	VAL	N-CA-C	-6.82	104.01	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	184	TRP	CA-C-N	6.82	129.31	120.44
1	hf	184	TRP	C-N-CA	6.82	129.31	120.44
1	hi	11	VAL	O-C-N	-6.82	115.19	122.83
1	hR	121	ASN	CA-CB-CG	6.82	119.42	112.60
1	ib	42	ALA	CA-C-N	6.82	134.06	122.26
1	ib	42	ALA	C-N-CA	6.82	134.06	122.26
1	iJ	29	GLU	N-CA-C	6.82	118.80	111.36
1	iN	226	HIS	CG-CD2-NE2	6.82	114.02	107.20
1	jv	9	GLN	CA-C-N	6.82	134.57	121.54
1	jv	9	GLN	C-N-CA	6.82	134.57	121.54
1	jO	78	ALA	N-CA-C	6.82	118.37	111.07
1	k5	194	ALA	CA-C-O	6.82	128.78	121.55
1	kS	23	TRP	N-CA-C	6.82	118.72	111.28
1	le	5	ASN	CA-CB-CG	6.82	119.42	112.60
1	ls	69	LEU	N-CA-CB	6.82	120.15	110.12
1	lv	21	ASN	CA-CB-CG	-6.82	105.78	112.60
1	2k	132	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	2N	155	GLN	OE1-CD-NE2	6.82	129.42	122.60
1	37	161	PHE	N-CA-CB	-6.82	99.71	110.22
1	3o	54	THR	CA-C-N	6.82	129.42	120.28
1	3o	54	THR	C-N-CA	6.82	129.42	120.28
1	4R	183	ASN	O-C-N	-6.82	115.04	122.07
1	6p	191	VAL	N-CA-C	6.82	117.58	110.62
1	7j	74	ASN	CA-C-O	6.82	127.98	120.82
1	8F	39	MET	CA-C-N	6.82	129.42	120.28
1	8F	39	MET	C-N-CA	6.82	129.42	120.28
1	8F	142	VAL	O-C-N	-6.82	115.25	121.87
1	9S	212	GLU	N-CA-C	6.82	118.72	111.28
1	ae	189	LEU	CA-C-O	6.82	127.84	119.79
1	ao	199	LYS	CA-C-N	6.82	129.42	120.28
1	ao	199	LYS	C-N-CA	6.82	129.42	120.28
1	bq	15	ILE	N-CA-C	6.82	119.45	109.63
1	bB	103	ASP	O-C-N	-6.82	114.89	122.12
1	dc	23	TRP	CB-CG-CD1	-6.82	116.67	126.90
1	dz	152	ASP	N-CA-C	6.82	118.37	111.07
1	eG	53	ASN	CA-CB-CG	-6.82	105.78	112.60
1	eT	139	ASN	OD1-CG-ND2	-6.82	115.78	122.60
1	f3	10	MET	N-CA-C	6.82	120.27	110.10
1	f8	18	ARG	NE-CZ-NH1	-6.82	114.68	121.50
1	fc	154	ARG	NH1-CZ-NH2	-6.82	110.43	119.30
1	g5	225	GLY	CA-C-N	6.82	130.50	120.95
1	g5	225	GLY	C-N-CA	6.82	130.50	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	34	PRO	N-CD-CG	6.82	113.43	103.20
1	T	221	VAL	N-CA-C	6.82	118.13	107.28
1	gu	116	GLY	CA-C-O	6.82	128.37	121.00
1	gw	100	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	gy	226	HIS	CB-CG-CD2	6.82	140.07	131.20
1	gI	163	ASP	N-CA-C	-6.82	104.58	113.17
1	1G	182	LYS	N-CA-C	6.82	118.37	111.07
1	1K	51	ASP	CA-CB-CG	-6.82	105.78	112.60
1	hD	67	GLN	N-CA-CB	6.82	119.90	110.01
1	it	47	ALA	O-C-N	-6.82	115.44	123.22
1	iN	33	SER	CA-C-O	-6.82	113.78	120.26
1	iU	168	PHE	N-CA-C	6.82	118.37	111.07
1	j1	161	PHE	N-CA-C	6.82	119.58	111.33
1	j2	144	MET	CA-C-N	6.82	129.72	120.38
1	j2	144	MET	C-N-CA	6.82	129.72	120.38
1	jp	32	PHE	CA-CB-CG	-6.82	106.98	113.80
1	jK	180	GLU	CA-C-N	6.82	129.80	120.46
1	jK	180	GLU	C-N-CA	6.82	129.80	120.46
1	k4	177	ALA	N-CA-C	6.82	119.18	107.93
1	kv	32	PHE	O-C-N	-6.82	114.65	122.97
1	23	214	MET	O-C-N	-6.82	114.89	122.12
1	l3	136	LEU	O-C-N	-6.82	115.00	122.09
1	l9	154	ARG	NE-CZ-NH2	6.82	125.34	119.20
1	li	66	MET	N-CA-C	6.82	118.72	111.28
1	lr	197	ASP	CA-C-O	6.82	127.84	119.11
1	lO	144	MET	CB-CA-C	-6.82	99.90	110.81
1	30	152	ASP	CA-C-N	6.82	131.01	122.48
1	30	152	ASP	C-N-CA	6.82	131.01	122.48
1	31	154	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	3i	120	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	3I	66	MET	N-CA-CB	6.82	120.10	109.94
1	3V	117	TRP	N-CA-C	6.82	118.71	111.28
1	3V	124	ILE	N-CA-C	-6.82	100.30	107.60
1	4d	139	ASN	CA-C-N	6.82	129.42	120.28
1	4d	139	ASN	C-N-CA	6.82	129.42	120.28
1	4k	65	ALA	CA-C-O	-6.82	111.74	119.79
1	4p	85	PRO	N-CA-CB	6.82	109.24	103.17
1	4y	131	LYS	CA-C-O	6.82	128.20	120.90
1	4F	59	VAL	CA-C-N	6.82	134.78	121.41
1	4F	59	VAL	C-N-CA	6.82	134.78	121.41
1	5b	21	ASN	CA-C-N	6.82	129.42	120.28
1	5b	21	ASN	C-N-CA	6.82	129.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	49	PRO	N-CA-C	6.82	122.86	113.65
1	5r	185	MET	O-C-N	6.82	129.35	122.12
1	5y	2	ILE	N-CA-CB	6.82	119.17	110.99
1	5C	178	SER	CA-C-O	6.82	128.99	121.56
1	62	64	ALA	CA-C-N	6.82	129.42	120.28
1	62	64	ALA	C-N-CA	6.82	129.42	120.28
1	6b	181	VAL	CB-CA-C	-6.82	103.24	111.97
1	6F	37	ILE	N-CA-C	6.82	122.50	112.61
1	79	226	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	7J	120	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	7V	195	ASN	O-C-N	-6.82	113.47	121.32
1	8v	113	GLU	CA-C-N	6.82	129.75	120.54
1	8v	113	GLU	C-N-CA	6.82	129.75	120.54
1	8D	230	VAL	N-CA-C	6.82	118.96	109.55
1	92	74	ASN	N-CA-C	6.82	118.37	111.07
1	9J	82	ARG	N-CA-C	6.82	118.80	111.36
1	9K	131	LYS	CA-C-O	6.82	127.81	120.10
1	10	104	ILE	CA-CB-CG1	6.82	122.00	110.40
1	aF	198	CYS	N-CA-C	6.82	119.58	111.33
1	aO	230	VAL	CA-C-O	6.82	127.72	119.54
1	cp	57	ASN	CA-CB-CG	-6.82	105.78	112.60
1	cL	196	PRO	CA-C-N	6.82	129.65	120.65
1	cL	196	PRO	C-N-CA	6.82	129.65	120.65
1	cO	153	ILE	N-CA-CB	6.82	118.59	110.95
1	d2	192	GLN	CA-C-O	6.82	127.81	119.97
1	d7	36	VAL	N-CA-C	6.82	117.58	110.62
1	d9	5	ASN	CA-CB-CG	-6.82	105.78	112.60
1	dF	144	MET	N-CA-C	-6.82	104.93	113.18
1	e4	201	ILE	CA-C-N	6.82	129.42	120.28
1	e4	201	ILE	C-N-CA	6.82	129.42	120.28
1	1p	117	TRP	N-CA-C	6.82	118.71	111.28
1	eD	175	GLU	N-CA-CB	6.82	121.21	110.84
1	eR	187	GLU	N-CA-CB	-6.82	99.83	110.06
1	eU	196	PRO	CA-C-N	6.82	129.75	120.54
1	eU	196	PRO	C-N-CA	6.82	129.75	120.54
1	fj	34	PRO	CA-C-N	6.82	130.34	120.38
1	fj	34	PRO	C-N-CA	6.82	130.34	120.38
1	fz	164	TYR	CA-C-N	6.82	129.15	120.56
1	fz	164	TYR	C-N-CA	6.82	129.15	120.56
1	fF	48	THR	O-C-N	-6.82	112.98	121.64
1	fO	50	GLN	OE1-CD-NE2	-6.82	115.78	122.60
1	fV	89	GLY	O-C-N	-6.82	114.95	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	138	LEU	O-C-N	-6.82	114.89	122.12
1	X	102	SER	O-C-N	-6.82	114.89	122.12
1	h0	56	LEU	N-CA-CB	-6.82	100.04	110.20
1	hi	84	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	hl	62	HIS	N-CA-C	6.82	120.78	111.17
1	hl	154	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	hm	136	LEU	CA-C-N	6.82	127.70	119.99
1	hm	136	LEU	C-N-CA	6.82	127.70	119.99
1	hO	113	GLU	O-C-N	-6.82	114.38	122.15
1	i1	23	TRP	CB-CG-CD2	6.82	136.35	126.80
1	iP	100	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	jb	72	THR	O-C-N	-6.82	114.38	122.15
1	jD	166	ASP	CA-C-N	6.82	129.30	120.44
1	jD	166	ASP	C-N-CA	6.82	129.30	120.44
1	ka	79	GLU	CA-C-N	6.82	129.30	120.44
1	ka	79	GLU	C-N-CA	6.82	129.30	120.44
1	2f	97	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	2T	229	ARG	O-C-N	-6.82	114.42	122.81
1	3p	4	GLN	CA-C-N	6.82	130.80	121.05
1	3p	4	GLN	C-N-CA	6.82	130.80	121.05
1	3r	33	SER	CA-C-N	6.82	126.96	119.87
1	3r	33	SER	C-N-CA	6.82	126.96	119.87
1	3U	79	GLU	CA-C-O	6.82	127.99	120.63
1	40	222	GLY	O-C-N	-6.82	116.29	122.77
1	4z	14	ALA	N-CA-C	6.82	119.86	110.24
1	5l	41	SER	CB-CA-C	-6.82	97.58	110.67
1	5Y	226	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	6Z	174	ALA	CA-C-O	6.82	127.33	119.35
1	7n	179	GLN	CA-C-O	6.82	127.81	120.10
1	9a	159	GLU	CA-C-N	6.82	128.36	119.84
1	9a	159	GLU	C-N-CA	6.82	128.36	119.84
1	9g	67	GLN	CA-C-O	6.82	127.78	120.55
1	9G	101	GLY	O-C-N	-6.82	115.63	122.18
1	a8	10	MET	O-C-N	-6.82	115.00	122.09
1	az	174	ALA	N-CA-CB	6.82	120.10	109.94
1	bE	47	ALA	CA-C-N	6.82	131.77	120.86
1	bE	47	ALA	C-N-CA	6.82	131.77	120.86
1	bY	145	TYR	CA-C-N	6.82	129.40	120.26
1	bY	145	TYR	C-N-CA	6.82	129.40	120.26
1	cO	206	GLY	CA-C-N	6.82	126.45	119.56
1	cO	206	GLY	C-N-CA	6.82	126.45	119.56
1	dI	115	ILE	CA-C-N	6.82	127.67	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dI	115	ILE	C-N-CA	6.82	127.67	120.03
1	dV	5	ASN	CA-C-N	6.82	133.05	121.87
1	dV	5	ASN	C-N-CA	6.82	133.05	121.87
1	1u	17	PRO	CA-C-N	6.82	129.97	120.29
1	1u	17	PRO	C-N-CA	6.82	129.97	120.29
1	fb	95	GLN	OE1-CD-NE2	-6.82	115.78	122.60
1	fk	72	THR	N-CA-CB	6.82	120.14	110.12
1	ft	22	ALA	CA-C-O	6.82	127.98	120.82
1	1y	213	GLU	CA-C-O	6.82	128.16	121.00
1	fF	210	THR	O-C-N	-6.82	115.30	122.94
1	fN	120	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	gb	57	ASN	CA-C-N	6.82	130.33	120.38
1	gb	57	ASN	C-N-CA	6.82	130.33	120.38
1	gn	127	GLY	O-C-N	6.82	128.72	122.18
1	gZ	72	THR	CA-C-N	6.82	129.40	120.60
1	gZ	72	THR	C-N-CA	6.82	129.40	120.60
1	hi	119	THR	CA-C-N	6.82	133.38	120.97
1	hi	119	THR	C-N-CA	6.82	133.38	120.97
1	ht	112	GLN	OE1-CD-NE2	-6.82	115.78	122.60
1	hK	134	ILE	O-C-N	-6.82	115.23	121.91
1	hS	200	THR	CA-C-N	6.82	129.80	120.46
1	hS	200	THR	C-N-CA	6.82	129.80	120.46
1	i1	19	THR	CA-C-N	6.82	129.30	120.44
1	i1	19	THR	C-N-CA	6.82	129.30	120.44
1	ih	168	PHE	CA-CB-CG	-6.82	106.98	113.80
1	il	42	ALA	N-CA-C	6.82	118.36	111.07
1	1P	222	GLY	O-C-N	-6.82	115.75	122.77
1	it	63	GLN	N-CA-C	6.82	118.71	111.28
1	iE	13	GLN	CB-CG-CD	6.82	124.19	112.60
1	jB	160	PRO	N-CA-CB	6.82	109.25	103.25
1	jI	133	TRP	CA-CB-CG	6.82	126.55	113.60
1	k7	57	ASN	CA-CB-CG	6.82	119.42	112.60
1	k7	177	ALA	N-CA-C	6.82	119.68	109.25
1	23	100	ARG	CA-C-N	6.82	127.51	119.94
1	23	100	ARG	C-N-CA	6.82	127.51	119.94
1	ll	65	ALA	N-CA-C	6.82	118.37	111.07
1	28	120	HIS	CG-CD2-NE2	6.82	114.02	107.20
1	28	136	LEU	N-CA-C	-6.82	103.93	111.36
1	lu	171	THR	CA-C-O	6.82	127.72	120.70
1	2B	183	ASN	N-CA-C	6.82	118.71	111.28
1	2I	206	GLY	O-C-N	-6.82	114.95	121.77
1	3e	164	TYR	O-C-N	-6.82	114.89	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	211	LEU	O-C-N	-6.82	114.89	122.12
1	47	129	ILE	N-CA-C	6.82	116.97	110.42
1	4l	100	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	4w	172	LEU	CA-C-O	6.82	127.78	120.55
1	5r	132	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	6b	86	VAL	N-CA-C	6.82	118.48	109.21
1	6j	181	VAL	N-CA-C	6.82	117.57	110.62
1	6V	98	GLU	O-C-N	-6.82	114.19	121.42
1	6Z	59	VAL	CA-C-N	6.82	127.37	119.94
1	6Z	59	VAL	C-N-CA	6.82	127.37	119.94
1	7h	73	ILE	N-CA-C	6.82	116.94	110.53
1	7A	209	ALA	N-CA-C	6.82	119.85	110.24
1	7L	21	ASN	N-CA-C	6.82	118.71	111.28
1	7R	183	ASN	OD1-CG-ND2	6.82	129.42	122.60
1	7S	100	ARG	NH1-CZ-NH2	-6.82	110.44	119.30
1	8x	186	THR	O-C-N	-6.82	114.89	122.12
1	9l	18	ARG	NE-CZ-NH2	-6.82	113.06	119.20
1	9t	102	SER	O-C-N	-6.82	114.89	122.12
1	a7	32	PHE	CA-CB-CG	-6.82	106.98	113.80
1	aa	156	GLY	CA-C-N	6.82	126.42	119.19
1	aa	156	GLY	C-N-CA	6.82	126.42	119.19
1	ay	4	GLN	CA-C-N	6.82	129.72	120.38
1	ay	4	GLN	C-N-CA	6.82	129.72	120.38
1	aP	201	ILE	O-C-N	-6.82	114.81	121.83
1	b7	226	HIS	N-CA-C	6.82	118.71	111.28
1	bp	141	ILE	N-CA-C	6.82	116.97	110.42
1	bu	111	LEU	N-CA-C	6.82	118.71	111.28
1	bC	80	TRP	N-CA-C	6.82	118.36	111.07
1	c6	169	TYR	CA-C-N	6.82	129.97	120.29
1	c6	169	TYR	C-N-CA	6.82	129.97	120.29
1	cg	193	ASN	O-C-N	-6.82	113.96	122.35
1	cs	37	ILE	N-CA-C	6.82	120.53	112.35
1	cz	12	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	da	167	ARG	CA-C-O	6.82	127.81	119.97
1	1j	214	MET	N-CA-C	6.82	118.71	111.28
1	dg	191	VAL	N-CA-CB	6.82	119.30	110.57
1	dr	62	HIS	CA-CB-CG	6.82	120.62	113.80
1	du	74	ASN	N-CA-C	6.82	118.71	111.28
1	dL	45	GLU	N-CA-C	6.82	120.53	110.30
1	fh	225	GLY	CA-C-N	6.82	130.51	120.90
1	fh	225	GLY	C-N-CA	6.82	130.51	120.90
1	1y	133	TRP	CB-CA-C	-6.82	99.47	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fG	12	HIS	CE1-NE2-CD2	-6.82	102.18	109.00
1	fY	210	THR	O-C-N	-6.82	115.02	122.79
1	f	123	PRO	O-C-N	-6.82	114.56	123.01
1	K	10	MET	N-CA-C	6.82	119.85	110.24
1	O	34	PRO	CA-C-N	6.82	130.10	120.28
1	O	34	PRO	C-N-CA	6.82	130.10	120.28
1	gb	14	ALA	N-CA-C	6.82	120.11	110.23
1	gg	40	PHE	CA-C-N	6.82	129.41	120.28
1	gg	40	PHE	C-N-CA	6.82	129.41	120.28
1	gu	185	MET	O-C-N	-6.82	114.89	122.12
1	gW	46	GLY	O-C-N	-6.82	115.73	122.41
1	hT	41	SER	CA-C-O	6.82	127.81	119.97
1	im	116	GLY	N-CA-C	6.82	121.14	112.83
1	iE	69	LEU	O-C-N	-6.82	115.05	122.07
1	iP	65	ALA	O-C-N	-6.82	114.90	122.12
1	iP	126	VAL	O-C-N	-6.82	115.23	121.91
1	iP	146	SER	CA-C-N	6.82	127.40	120.04
1	iP	146	SER	C-N-CA	6.82	127.40	120.04
1	je	74	ASN	N-CA-CB	6.82	120.28	110.06
1	jm	47	ALA	O-C-N	-6.82	114.55	122.93
1	jM	73	ILE	CB-CA-C	-6.82	103.25	111.97
1	k4	174	ALA	CA-C-N	-6.82	111.05	122.29
1	k4	174	ALA	C-N-CA	-6.82	111.05	122.29
1	kT	215	MET	N-CA-C	6.82	120.47	111.75
1	lg	132	ARG	CA-C-N	6.82	129.72	120.38
1	lg	132	ARG	C-N-CA	6.82	129.72	120.38
1	li	148	THR	O-C-N	-6.82	114.95	123.27
1	2d	34	PRO	CA-C-N	6.82	133.07	121.14
1	2d	34	PRO	C-N-CA	6.82	133.07	121.14
1	2v	91	ILE	N-CA-C	6.82	117.91	110.21
1	2L	169	TYR	CA-C-N	6.82	129.30	120.44
1	2L	169	TYR	C-N-CA	6.82	129.30	120.44
1	3l	57	ASN	N-CA-C	6.82	119.73	111.82
1	3r	16	SER	CA-C-N	6.82	128.36	119.84
1	3r	16	SER	C-N-CA	6.82	128.36	119.84
1	3s	133	TRP	CA-C-N	6.82	129.15	120.56
1	3s	133	TRP	C-N-CA	6.82	129.15	120.56
1	3u	139	ASN	CA-CB-CG	-6.82	105.78	112.60
1	4e	131	LYS	CA-C-N	6.82	129.41	120.28
1	4e	131	LYS	C-N-CA	6.82	129.41	120.28
1	4g	114	GLN	CA-C-N	6.82	129.39	120.60
1	4g	114	GLN	C-N-CA	6.82	129.39	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	61	97	ARG	NE-CZ-NH2	-6.82	113.07	119.20
1	67	199	LYS	CA-C-N	6.82	129.30	120.44
1	67	199	LYS	C-N-CA	6.82	129.30	120.44
1	6f	186	THR	N-CA-C	6.82	118.79	111.36
1	72	191	VAL	N-CA-CB	6.82	121.05	112.26
1	7a	164	TYR	N-CA-C	6.82	118.36	111.07
1	7C	219	GLN	OE1-CD-NE2	-6.82	115.78	122.60
1	88	11	VAL	O-C-N	-6.82	115.39	122.82
1	8L	189	LEU	N-CA-C	6.82	118.71	111.28
1	9f	229	ARG	NE-CZ-NH2	-6.82	113.07	119.20
1	9q	56	LEU	O-C-N	6.82	129.09	122.07
1	9B	166	ASP	CA-C-N	6.82	129.30	120.44
1	9B	166	ASP	C-N-CA	6.82	129.30	120.44
1	Y	154	ARG	NE-CZ-NH2	6.82	125.33	119.20
1	a4	47	ALA	N-CA-C	6.82	120.37	110.28
1	ar	79	GLU	N-CA-C	6.82	118.71	111.28
1	14	18	ARG	NE-CZ-NH1	6.82	128.32	121.50
1	aU	5	ASN	CA-CB-CG	6.82	119.42	112.60
1	1a	159	GLU	CA-C-O	-6.82	113.34	119.75
1	cI	139	ASN	CA-C-O	6.82	127.81	119.97
1	cT	84	HIS	ND1-CE1-NE2	6.82	115.22	108.40
1	df	115	ILE	N-CA-CB	6.82	119.81	110.54
1	dh	188	THR	CA-C-N	6.82	129.41	120.28
1	dh	188	THR	C-N-CA	6.82	129.41	120.28
1	dG	172	LEU	N-CA-C	6.82	119.73	111.82
1	er	129	ILE	CB-CA-C	6.82	120.69	111.97
1	eu	89	GLY	O-C-N	-6.82	114.95	121.77
1	f8	212	GLU	N-CA-C	6.82	119.29	111.11
1	fa	16	SER	N-CA-C	6.82	119.49	110.08
1	fa	56	LEU	N-CA-C	6.82	118.40	110.97
1	fi	105	ALA	CA-C-O	6.82	127.91	119.05
1	fj	107	THR	O-C-N	-6.82	113.53	122.59
1	fx	5	ASN	CA-CB-CG	-6.82	105.78	112.60
1	fV	33	SER	O-C-N	6.82	126.62	121.65
1	g2	151	LEU	CA-C-N	6.82	129.41	120.28
1	g2	151	LEU	C-N-CA	6.82	129.41	120.28
1	o	22	ALA	N-CA-C	6.82	118.71	111.28
1	y	125	PRO	CA-C-N	6.82	129.80	120.46
1	y	125	PRO	C-N-CA	6.82	129.80	120.46
1	K	53	ASN	CA-CB-CG	-6.82	105.78	112.60
1	R	62	HIS	CA-C-N	6.82	130.67	120.31
1	R	62	HIS	C-N-CA	6.82	130.67	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gx	217	ALA	CA-C-O	-6.81	113.53	121.16
1	ha	228	ALA	CA-C-O	-6.81	114.22	121.99
1	hB	87	HIS	N-CA-C	6.81	119.89	110.35
1	j7	112	GLN	CA-C-O	6.81	127.77	120.55
1	21	31	ALA	CA-C-N	6.81	131.81	122.34
1	21	31	ALA	C-N-CA	6.81	131.81	122.34
1	2L	114	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	3x	26	VAL	N-CA-C	6.81	116.94	110.53
1	3z	80	TRP	CD2-CE2-CZ2	-6.81	115.59	122.40
1	4f	67	GLN	CA-C-N	6.81	129.41	120.28
1	4f	67	GLN	C-N-CA	6.81	129.41	120.28
1	4l	191	VAL	CA-C-N	6.81	129.72	120.38
1	4l	191	VAL	C-N-CA	6.81	129.72	120.38
1	5u	229	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	6x	87	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	7h	122	PRO	CA-C-N	6.81	126.85	119.90
1	7h	122	PRO	C-N-CA	6.81	126.85	119.90
1	83	159	GLU	O-C-N	-6.81	115.24	121.30
1	93	207	PRO	N-CA-C	-6.81	105.65	114.03
1	9u	39	MET	O-C-N	-6.81	114.90	122.12
1	av	185	MET	CA-C-N	6.81	129.30	120.44
1	av	185	MET	C-N-CA	6.81	129.30	120.44
1	15	75	GLU	N-CA-C	6.81	118.36	111.07
1	1a	112	GLN	O-C-N	6.81	129.34	122.12
1	c1	214	MET	O-C-N	-6.81	115.05	122.07
1	c8	50	GLN	N-CA-C	6.81	118.36	111.07
1	c9	229	ARG	NE-CZ-NH1	-6.81	114.69	121.50
1	cp	195	ASN	O-C-N	-6.81	113.48	121.32
1	d1	78	ALA	O-C-N	-6.81	114.73	122.09
1	dA	130	TYR	CA-C-N	6.81	129.72	120.38
1	dA	130	TYR	C-N-CA	6.81	129.72	120.38
1	ea	161	PHE	CA-CB-CG	-6.81	106.99	113.80
1	eL	99	PRO	CB-CA-C	-6.81	105.20	111.40
1	fk	74	ASN	OD1-CG-ND2	-6.81	115.79	122.60
1	fp	21	ASN	CA-C-O	6.81	127.80	120.10
1	fs	195	ASN	CB-CA-C	6.81	119.33	109.11
1	t	123	PRO	N-CA-C	6.81	121.94	111.11
1	2	155	GLN	CB-CG-CD	-6.81	101.02	112.60
1	gd	16	SER	O-C-N	-6.81	114.47	121.28
1	hj	220	GLY	N-CA-C	6.81	124.39	114.10
1	hK	194	ALA	N-CA-CB	6.81	120.10	110.36
1	i3	65	ALA	O-C-N	-6.81	114.38	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	120	HIS	O-C-N	-6.81	114.43	122.81
1	im	64	ALA	O-C-N	-6.81	115.05	122.07
1	iJ	194	ALA	CA-C-N	6.81	129.86	120.39
1	iJ	194	ALA	C-N-CA	6.81	129.86	120.39
1	iU	197	ASP	CA-CB-CG	6.81	119.41	112.60
1	1W	183	ASN	CA-C-O	6.81	127.80	120.10
1	jJ	71	GLU	N-CA-C	6.81	118.36	111.07
1	1Z	98	GLU	O-C-N	-6.81	114.84	121.18
1	kl	116	GLY	N-CA-C	6.81	121.14	112.83
1	kE	67	GLN	O-C-N	-6.81	113.20	122.33
1	kJ	219	GLN	N-CA-CB	-6.81	100.03	110.04
1	kP	84	HIS	CE1-NE2-CD2	-6.81	102.19	109.00
1	ld	33	SER	CA-C-O	-6.81	114.78	120.71
1	2e	191	VAL	N-CA-C	6.81	119.61	111.09
1	2l	133	TRP	CZ3-CH2-CZ2	-6.81	112.64	121.50
1	2A	74	ASN	N-CA-C	6.81	119.28	111.11
1	3x	63	GLN	CB-CG-CD	6.81	124.18	112.60
1	3G	6	LEU	O-C-N	6.81	129.09	122.07
1	3X	15	ILE	CA-C-N	6.81	129.80	120.67
1	3X	15	ILE	C-N-CA	6.81	129.80	120.67
1	4g	219	GLN	O-C-N	-6.81	113.89	122.27
1	5d	166	ASP	CA-C-N	6.81	129.30	120.44
1	5d	166	ASP	C-N-CA	6.81	129.30	120.44
1	5D	185	MET	CA-C-O	-6.81	113.67	120.82
1	6i	67	GLN	N-CA-CB	6.81	120.24	110.16
1	6F	195	ASN	CA-C-N	6.81	126.28	118.85
1	6F	195	ASN	C-N-CA	6.81	126.28	118.85
1	7c	56	LEU	CA-C-N	6.81	129.41	120.28
1	7c	56	LEU	C-N-CA	6.81	129.41	120.28
1	7d	125	PRO	CA-C-N	6.81	130.09	120.42
1	7d	125	PRO	C-N-CA	6.81	130.09	120.42
1	7e	215	MET	CG-SD-CE	-6.81	85.91	100.90
1	7s	88	ALA	N-CA-C	6.81	119.75	110.55
1	86	67	GLN	O-C-N	-6.81	113.37	122.23
1	8Q	213	GLU	CA-C-N	6.81	129.74	120.54
1	8Q	213	GLU	C-N-CA	6.81	129.74	120.54
1	8V	177	ALA	N-CA-C	6.81	125.31	110.80
1	97	57	ASN	O-C-N	-6.81	112.48	122.43
1	9l	45	GLU	CA-C-O	6.81	128.48	120.58
1	9m	141	ILE	O-C-N	-6.81	115.21	121.89
1	9w	18	ARG	O-C-N	6.81	129.34	122.12
1	9z	116	GLY	CA-C-N	6.81	129.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9z	116	GLY	C-N-CA	6.81	129.41	120.28
1	9F	52	LEU	O-C-N	-6.81	114.90	122.12
1	9V	104	ILE	O-C-N	-6.81	114.81	121.83
1	a2	139	ASN	CA-CB-CG	6.81	119.41	112.60
1	a9	12	HIS	CA-CB-CG	6.81	120.61	113.80
1	aa	136	LEU	O-C-N	-6.81	114.90	122.12
1	aq	203	LYS	O-C-N	-6.81	115.05	122.07
1	az	168	PHE	CA-C-N	6.81	129.96	120.29
1	az	168	PHE	C-N-CA	6.81	129.96	120.29
1	cC	40	PHE	CA-CB-CG	-6.81	106.99	113.80
1	1g	161	PHE	CB-CA-C	6.81	121.75	110.92
1	dd	122	PRO	N-CA-CB	6.81	110.09	102.60
1	dQ	118	MET	N-CA-C	6.81	119.72	111.82
1	dT	195	ASN	O-C-N	-6.81	114.28	121.30
1	ek	8	GLY	O-C-N	-6.81	116.72	122.92
1	eP	153	ILE	N-CA-C	6.81	118.62	108.54
1	fc	224	PRO	CA-C-N	6.81	127.49	120.00
1	fc	224	PRO	C-N-CA	6.81	127.49	120.00
1	fp	16	SER	CA-C-O	6.81	126.23	119.49
1	fp	147	PRO	CB-CA-C	6.81	122.06	112.11
1	fu	98	GLU	N-CA-C	6.81	121.50	109.58
1	fZ	77	ALA	N-CA-CB	-6.81	100.11	110.12
1	fZ	134	ILE	CB-CA-C	-6.81	102.94	112.14
1	a	15	ILE	O-C-N	-6.81	114.05	122.57
1	a	222	GLY	N-CA-C	6.81	121.51	112.65
1	r	107	THR	O-C-N	-6.81	114.90	122.12
1	hu	78	ALA	O-C-N	-6.81	114.90	122.12
1	hH	226	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	iF	115	ILE	CA-CB-CG2	6.81	122.08	110.50
1	iJ	83	LEU	CA-C-O	6.81	127.57	119.60
1	jw	36	VAL	CA-C-N	6.81	125.78	120.33
1	jw	36	VAL	C-N-CA	6.81	125.78	120.33
1	kb	222	GLY	CA-C-N	6.81	132.56	121.87
1	kb	222	GLY	C-N-CA	6.81	132.56	121.87
1	kj	166	ASP	CA-C-N	6.81	129.96	120.29
1	kj	166	ASP	C-N-CA	6.81	129.96	120.29
1	kT	7	GLN	N-CA-C	6.81	120.11	110.23
1	lP	65	ALA	N-CA-C	6.81	118.70	111.28
1	38	101	GLY	CA-C-N	6.81	129.71	120.38
1	38	101	GLY	C-N-CA	6.81	129.71	120.38
1	46	12	HIS	CA-CB-CG	6.81	120.61	113.80
1	4i	110	THR	O-C-N	-6.81	115.03	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4t	122	PRO	CA-C-N	6.81	126.57	119.76
1	4t	122	PRO	C-N-CA	6.81	126.57	119.76
1	4y	11	VAL	O-C-N	-6.81	115.71	122.93
1	5c	23	TRP	O-C-N	-6.81	115.06	122.07
1	5t	73	ILE	N-CA-C	6.81	116.96	110.42
1	5X	89	GLY	O-C-N	-6.81	114.96	121.77
1	60	44	SER	O-C-N	-6.81	113.89	122.27
1	64	223	GLY	CA-C-N	6.81	126.41	119.19
1	64	223	GLY	C-N-CA	6.81	126.41	119.19
1	6t	63	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	6J	226	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	7g	179	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	7I	37	ILE	O-C-N	-6.81	115.23	120.07
1	8l	23	TRP	CA-C-N	6.81	129.79	120.46
1	8l	23	TRP	C-N-CA	6.81	129.79	120.46
1	8D	141	ILE	CA-C-N	6.81	129.79	120.46
1	8D	141	ILE	C-N-CA	6.81	129.79	120.46
1	8F	184	TRP	CA-C-N	6.81	129.74	120.54
1	8F	184	TRP	C-N-CA	6.81	129.74	120.54
1	c6	131	LYS	N-CA-C	6.81	118.70	111.28
1	dY	210	THR	CA-C-O	-6.81	114.33	121.55
1	et	67	GLN	N-CA-CB	6.81	119.89	110.01
1	fs	87	HIS	N-CA-C	6.81	119.84	110.24
1	gm	139	ASN	N-CA-C	6.81	118.70	111.28
1	hf	23	TRP	O-C-N	-6.81	114.90	122.12
1	hn	74	ASN	N-CA-C	6.81	118.70	111.28
1	1L	4	GLN	N-CA-C	-6.81	104.27	112.58
1	hT	62	HIS	CB-CG-CD2	-6.81	122.35	131.20
1	hZ	171	THR	N-CA-CB	6.81	119.88	110.01
1	iz	99	PRO	N-CA-CB	-6.81	97.25	103.31
1	jf	33	SER	CA-C-N	6.81	126.05	118.97
1	jf	33	SER	C-N-CA	6.81	126.05	118.97
1	jt	194	ALA	N-CA-C	6.81	120.10	110.23
1	jv	227	LYS	N-CA-CB	-6.81	100.18	110.73
1	1X	82	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	kt	223	GLY	O-C-N	-6.81	114.96	121.77
1	kI	33	SER	CA-C-N	6.81	127.08	119.32
1	kI	33	SER	C-N-CA	6.81	127.08	119.32
1	kT	85	PRO	N-CA-C	6.81	121.91	111.15
1	lk	132	ARG	NE-CZ-NH2	-6.81	113.07	119.20
1	lt	98	GLU	CA-C-O	6.81	124.70	119.46
1	2a	139	ASN	OD1-CG-ND2	-6.81	115.79	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	48	THR	N-CA-C	-6.81	102.30	110.13
1	2h	140	LYS	N-CA-C	6.81	119.54	111.71
1	2A	110	THR	CA-C-N	6.81	129.71	120.38
1	2A	110	THR	C-N-CA	6.81	129.71	120.38
1	3A	54	THR	CA-C-O	-6.81	113.33	120.55
1	4k	120	HIS	O-C-N	-6.81	113.17	122.23
1	4C	178	SER	O-C-N	-6.81	114.83	122.86
1	4E	87	HIS	CA-C-N	6.81	129.29	120.44
1	4E	87	HIS	C-N-CA	6.81	129.29	120.44
1	4U	159	GLU	CA-C-N	6.81	128.35	119.84
1	4U	159	GLU	C-N-CA	6.81	128.35	119.84
1	55	167	ARG	CA-C-N	6.81	130.26	120.79
1	55	167	ARG	C-N-CA	6.81	130.26	120.79
1	57	47	ALA	N-CA-C	6.81	121.40	109.96
1	5j	96	MET	O-C-N	-6.81	114.56	123.21
1	5S	172	LEU	O-C-N	-6.81	115.06	122.07
1	5Y	150	ILE	O-C-N	-6.81	115.53	122.14
1	62	228	ALA	N-CA-C	6.81	119.84	110.24
1	6l	142	VAL	CA-C-N	6.81	129.41	120.28
1	6l	142	VAL	C-N-CA	6.81	129.41	120.28
1	6G	4	GLN	N-CA-C	6.81	120.93	111.74
1	70	130	TYR	O-C-N	-6.81	114.90	122.12
1	71	25	LYS	N-CA-C	6.81	121.33	112.89
1	72	62	HIS	CB-CG-CD2	-6.81	122.35	131.20
1	7g	179	GLN	CA-C-N	6.81	131.03	120.82
1	7g	179	GLN	C-N-CA	6.81	131.03	120.82
1	7Z	4	GLN	CB-CG-CD	6.81	124.18	112.60
1	8V	16	SER	CB-CA-C	-6.81	99.27	108.87
1	92	53	ASN	CA-CB-CG	-6.81	105.79	112.60
1	9v	205	LEU	N-CA-CB	6.81	120.55	110.33
1	9F	18	ARG	NE-CZ-NH2	-6.81	113.07	119.20
1	9U	71	GLU	O-C-N	-6.81	113.89	122.27
1	a7	134	ILE	CA-C-N	6.81	130.09	120.42
1	a7	134	ILE	C-N-CA	6.81	130.09	120.42
1	at	166	ASP	CA-CB-CG	6.81	119.41	112.60
1	bp	170	LYS	O-C-N	-6.81	115.06	122.07
1	bE	12	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	cj	161	PHE	CA-CB-CG	6.81	120.61	113.80
1	cu	143	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	dv	209	ALA	N-CA-C	6.81	120.10	110.50
1	e3	33	SER	CA-C-N	6.81	127.37	119.47
1	e3	33	SER	C-N-CA	6.81	127.37	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eb	193	ASN	OD1-CG-ND2	-6.81	115.79	122.60
1	en	172	LEU	O-C-N	-6.81	114.90	122.12
1	ev	183	ASN	N-CA-C	6.81	118.70	111.28
1	eA	13	GLN	CA-C-N	6.81	130.42	120.82
1	eA	13	GLN	C-N-CA	6.81	130.42	120.82
1	eY	229	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	fp	48	THR	O-C-N	-6.81	113.90	121.53
1	fr	124	ILE	O-C-N	-6.81	114.42	120.96
1	fW	107	THR	N-CA-C	-6.81	105.12	113.50
1	S	154	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	X	73	ILE	O-C-N	-6.81	114.82	121.83
1	ge	229	ARG	NE-CZ-NH1	6.81	128.31	121.50
1	gO	219	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	h0	226	HIS	CA-CB-CG	6.81	120.61	113.80
1	h5	69	LEU	CA-C-N	6.81	129.29	120.44
1	h5	69	LEU	C-N-CA	6.81	129.29	120.44
1	1I	175	GLU	O-C-N	-6.81	114.79	122.75
1	hF	83	LEU	N-CA-C	6.81	119.28	111.11
1	hZ	202	LEU	N-CA-C	6.81	119.54	111.71
1	i0	179	GLN	CA-C-N	6.81	129.29	120.44
1	i0	179	GLN	C-N-CA	6.81	129.29	120.44
1	i7	58	THR	N-CA-C	6.81	119.57	111.33
1	ia	135	ILE	CA-C-N	6.81	129.70	120.44
1	ia	135	ILE	C-N-CA	6.81	129.70	120.44
1	jc	59	VAL	CA-C-O	6.81	129.21	121.11
1	jz	176	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	jF	84	HIS	N-CA-C	6.81	117.94	109.57
1	jU	208	ALA	CA-C-N	6.81	130.38	120.71
1	jU	208	ALA	C-N-CA	6.81	130.38	120.71
1	l3	155	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	l8	36	VAL	CA-C-O	-6.81	113.87	120.95
1	27	118	MET	N-CA-C	6.81	118.70	111.28
1	lu	16	SER	N-CA-C	6.81	118.29	109.64
1	29	117	TRP	N-CA-C	6.81	118.35	111.07
1	2p	165	VAL	N-CA-C	6.81	116.96	110.42
1	2s	133	TRP	N-CA-C	6.81	118.70	111.28
1	2C	97	ARG	NE-CZ-NH2	-6.81	113.07	119.20
1	2E	184	TRP	CD2-CE2-CZ2	-6.81	115.59	122.40
1	36	104	ILE	O-C-N	-6.81	115.24	121.91
1	3n	42	ALA	O-C-N	-6.81	115.06	122.07
1	3s	147	PRO	CA-C-N	6.81	133.24	122.21
1	3s	147	PRO	C-N-CA	6.81	133.24	122.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3z	50	GLN	N-CA-C	6.81	118.78	111.36
1	3S	183	ASN	CA-CB-CG	6.81	119.41	112.60
1	4K	47	ALA	O-C-N	-6.81	114.98	123.01
1	4L	59	VAL	O-C-N	-6.81	115.73	122.67
1	5l	65	ALA	CA-C-N	6.81	132.08	120.71
1	5l	65	ALA	C-N-CA	6.81	132.08	120.71
1	5L	88	ALA	CA-C-N	6.81	132.56	121.87
1	5L	88	ALA	C-N-CA	6.81	132.56	121.87
1	63	54	THR	CA-C-N	6.81	129.40	120.28
1	63	54	THR	C-N-CA	6.81	129.40	120.28
1	6b	28	GLU	O-C-N	-6.81	114.74	122.09
1	7H	208	ALA	CA-C-N	6.81	130.38	120.71
1	7H	208	ALA	C-N-CA	6.81	130.38	120.71
1	7W	62	HIS	CA-C-N	6.81	132.25	120.68
1	7W	62	HIS	C-N-CA	6.81	132.25	120.68
1	8a	104	ILE	N-CA-C	6.81	117.56	110.62
1	8H	201	ILE	O-C-N	-6.81	115.24	121.91
1	8T	84	HIS	CA-CB-CG	6.81	120.61	113.80
1	8U	66	MET	N-CA-C	6.81	118.70	111.28
1	9d	68	MET	CA-C-N	6.81	129.29	120.44
1	9d	68	MET	C-N-CA	6.81	129.29	120.44
1	9i	21	ASN	N-CA-C	6.81	118.70	111.28
1	9N	175	GLU	N-CA-C	-6.81	98.82	108.96
1	9R	211	LEU	CA-C-N	6.81	129.40	120.28
1	9R	211	LEU	C-N-CA	6.81	129.40	120.28
1	aM	184	TRP	CB-CG-CD1	-6.81	116.69	126.90
1	bf	20	LEU	O-C-N	-6.81	114.91	122.12
1	bz	72	THR	N-CA-C	6.81	118.70	111.28
1	19	102	SER	N-CA-C	6.81	119.54	111.71
1	bG	183	ASN	CA-CB-CG	6.81	119.41	112.60
1	bM	193	ASN	CA-C-O	6.81	127.31	119.35
1	bS	91	ILE	O-C-N	-6.81	114.06	122.57
1	cf	226	HIS	CE1-NE2-CD2	-6.81	102.19	109.00
1	1g	85	PRO	N-CA-CB	-6.81	97.76	102.73
1	cO	184	TRP	CA-C-N	6.81	129.29	120.44
1	cO	184	TRP	C-N-CA	6.81	129.29	120.44
1	d5	71	GLU	CA-C-N	6.81	129.29	120.44
1	d5	71	GLU	C-N-CA	6.81	129.29	120.44
1	dn	210	THR	O-C-N	-6.81	114.44	122.81
1	dR	155	GLN	N-CA-C	-6.81	98.38	108.79
1	dW	120	HIS	ND1-CE1-NE2	6.81	115.21	108.40
1	e8	78	ALA	CA-C-N	6.81	130.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	78	ALA	C-N-CA	6.81	130.66	120.31
1	1q	30	LYS	N-CA-CB	-6.81	100.42	110.49
1	ev	95	GLN	CG-CD-NE2	6.81	126.61	116.40
1	f0	226	HIS	CG-CD2-NE2	6.81	114.01	107.20
1	f3	18	ARG	CA-C-O	6.81	127.64	120.42
1	1w	120	HIS	N-CA-C	6.81	119.09	110.24
1	fq	186	THR	N-CA-CB	6.81	120.40	110.26
1	g1	42	ALA	N-CA-C	6.81	118.70	111.28
1	1	173	ARG	CA-C-N	6.81	129.29	120.44
1	1	173	ARG	C-N-CA	6.81	129.29	120.44
1	k	219	GLN	N-CA-C	6.81	119.67	109.25
1	C	51	ASP	CA-CB-CG	-6.81	105.79	112.60
1	E	124	ILE	O-C-N	-6.81	115.42	121.61
1	5	200	THR	N-CA-C	6.81	119.28	111.11
1	gA	192	GLN	N-CA-C	6.81	118.70	111.28
1	1E	156	GLY	O-C-N	-6.81	114.96	121.77
1	gH	32	PHE	CA-CB-CG	-6.81	106.99	113.80
1	gK	10	MET	N-CA-C	6.81	119.61	110.35
1	1I	189	LEU	CA-C-N	6.81	129.70	120.38
1	1I	189	LEU	C-N-CA	6.81	129.70	120.38
1	hX	57	ASN	CA-CB-CG	-6.81	105.79	112.60
1	1N	86	VAL	N-CA-C	6.81	118.26	107.98
1	it	141	ILE	N-CA-CB	6.81	118.51	110.55
1	1R	187	GLU	O-C-N	-6.81	115.01	122.09
1	iX	67	GLN	CA-C-N	6.81	129.95	120.29
1	iX	67	GLN	C-N-CA	6.81	129.95	120.29
1	jb	102	SER	CA-C-O	6.81	127.28	119.18
1	jT	191	VAL	CA-C-N	6.81	129.40	120.28
1	jT	191	VAL	C-N-CA	6.81	129.40	120.28
1	2c	230	VAL	N-CA-CB	6.81	118.74	111.46
1	2q	112	GLN	N-CA-C	6.81	118.70	111.28
1	2H	152	ASP	CA-C-O	6.81	127.98	119.95
1	3H	111	LEU	CA-C-N	6.81	129.40	120.28
1	3H	111	LEU	C-N-CA	6.81	129.40	120.28
1	3J	201	ILE	CA-C-N	6.81	129.40	120.28
1	3J	201	ILE	C-N-CA	6.81	129.40	120.28
1	4d	37	ILE	N-CA-C	6.81	121.18	112.67
1	5H	183	ASN	CA-C-N	6.81	129.29	120.44
1	5H	183	ASN	C-N-CA	6.81	129.29	120.44
1	7p	29	GLU	N-CA-C	6.81	118.35	111.07
1	7G	143	ARG	N-CA-C	6.81	118.70	111.28
1	9n	76	GLU	CA-C-N	6.81	129.40	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9n	76	GLU	C-N-CA	6.81	129.40	120.28
1	9I	101	GLY	CA-C-N	6.81	129.40	120.28
1	9I	101	GLY	C-N-CA	6.81	129.40	120.28
1	aj	176	GLN	CA-C-O	6.81	126.39	118.90
1	aP	118	MET	N-CA-C	6.81	118.35	111.07
1	aV	210	THR	N-CA-C	6.81	119.35	110.43
1	cg	194	ALA	O-C-N	-6.81	114.28	122.65
1	cJ	15	ILE	N-CA-C	6.81	117.81	109.30
1	cL	80	TRP	N-CA-C	6.81	119.56	111.33
1	cP	39	MET	CA-C-N	6.81	129.40	120.28
1	cP	39	MET	C-N-CA	6.81	129.40	120.28
1	ed	70	LYS	CA-C-N	6.81	129.29	120.44
1	ed	70	LYS	C-N-CA	6.81	129.29	120.44
1	f3	89	GLY	CA-C-N	6.81	126.77	119.76
1	f3	89	GLY	C-N-CA	6.81	126.77	119.76
1	fO	13	GLN	OE1-CD-NE2	-6.81	115.79	122.60
1	fR	3	VAL	CA-CB-CG2	6.81	121.97	110.40
1	n	195	ASN	CB-CA-C	6.81	122.52	110.47
1	t	113	GLU	CA-C-N	6.81	129.29	120.44
1	t	113	GLU	C-N-CA	6.81	129.29	120.44
1	x	65	ALA	N-CA-C	6.81	118.35	111.07
1	ga	161	PHE	CA-CB-CG	-6.80	107.00	113.80
1	1C	13	GLN	CG-CD-OE1	6.80	134.41	120.80
1	gi	76	GLU	N-CA-CB	6.80	120.12	110.12
1	gu	172	LEU	CA-C-N	6.80	129.40	120.28
1	gu	172	LEU	C-N-CA	6.80	129.40	120.28
1	gA	140	LYS	CA-C-N	6.80	129.27	120.56
1	gA	140	LYS	C-N-CA	6.80	129.27	120.56
1	gF	87	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	gV	185	MET	N-CA-C	6.80	118.70	111.28
1	hd	216	THR	N-CA-C	-6.80	104.85	113.02
1	hr	201	ILE	CB-CA-C	-6.80	103.26	111.97
1	hs	191	VAL	CB-CA-C	6.80	118.42	110.93
1	hw	173	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	1K	19	THR	CA-C-N	6.80	129.29	120.44
1	1K	19	THR	C-N-CA	6.80	129.29	120.44
1	i8	132	ARG	N-CA-C	6.80	118.70	111.28
1	ib	62	HIS	N-CA-C	6.80	120.78	111.39
1	1O	184	TRP	CD2-CE2-CZ2	-6.80	115.59	122.40
1	ii	129	ILE	N-CA-C	6.80	116.95	110.42
1	iz	84	HIS	CE1-NE2-CD2	-6.80	102.19	109.00
1	iD	174	ALA	O-C-N	-6.80	114.74	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iX	43	LEU	CA-C-O	6.80	127.89	119.05
1	jD	33	SER	O-C-N	-6.80	114.82	121.56
1	jT	129	ILE	CA-C-N	6.80	129.29	120.44
1	jT	129	ILE	C-N-CA	6.80	129.29	120.44
1	k4	104	ILE	N-CA-C	6.80	117.50	110.36
1	20	58	THR	CA-C-O	6.80	127.82	119.79
1	kx	4	GLN	CA-C-N	6.80	130.08	120.28
1	kx	4	GLN	C-N-CA	6.80	130.08	120.28
1	l8	63	GLN	CA-C-O	-6.80	113.58	121.07
1	lv	188	THR	N-CA-CB	6.80	120.23	110.16
1	2o	126	VAL	N-CA-C	6.80	118.38	110.62
1	2t	87	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	2I	87	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	2Y	167	ARG	N-CA-C	6.80	118.70	111.28
1	3t	47	ALA	N-CA-C	6.80	120.24	110.10
1	3I	15	ILE	N-CA-C	6.80	118.21	109.30
1	45	161	PHE	N-CA-C	6.80	119.32	111.02
1	47	20	LEU	N-CA-C	6.80	119.53	111.71
1	4x	39	MET	CA-C-O	6.80	127.97	120.82
1	4M	191	VAL	CA-C-N	6.80	129.40	120.28
1	4M	191	VAL	C-N-CA	6.80	129.40	120.28
1	52	68	MET	N-CA-C	6.80	118.70	111.28
1	5k	84	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	5w	117	TRP	CA-C-O	6.80	127.63	120.42
1	5P	152	ASP	N-CA-C	6.80	118.70	111.28
1	6c	28	GLU	N-CA-C	6.80	118.70	111.28
1	6x	212	GLU	CA-C-N	6.80	129.40	120.28
1	6x	212	GLU	C-N-CA	6.80	129.40	120.28
1	6Z	36	VAL	CA-C-N	6.80	125.77	120.33
1	6Z	36	VAL	C-N-CA	6.80	125.77	120.33
1	6Z	44	SER	CA-C-N	6.80	132.17	121.56
1	6Z	44	SER	C-N-CA	6.80	132.17	121.56
1	7r	211	LEU	CA-C-N	6.80	129.72	120.54
1	7r	211	LEU	C-N-CA	6.80	129.72	120.54
1	7G	167	ARG	CD-NE-CZ	-6.80	114.87	124.40
1	7T	153	ILE	N-CA-C	6.80	117.47	110.05
1	8h	97	ARG	NE-CZ-NH2	6.80	125.32	119.20
1	8i	156	GLY	O-C-N	-6.80	114.97	121.77
1	8z	211	LEU	CA-C-N	6.80	129.29	120.44
1	8z	211	LEU	C-N-CA	6.80	129.29	120.44
1	8C	24	VAL	CA-C-N	6.80	129.28	120.44
1	8C	24	VAL	C-N-CA	6.80	129.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8C	130	TYR	CA-C-O	6.80	127.76	120.55
1	8C	160	PRO	CB-CA-C	6.80	120.89	110.21
1	8L	224	PRO	CA-C-N	6.80	128.36	121.35
1	8L	224	PRO	C-N-CA	6.80	128.36	121.35
1	8P	162	ARG	N-CA-C	6.80	118.78	111.36
1	8Q	203	LYS	CA-C-N	6.80	129.40	120.28
1	8Q	203	LYS	C-N-CA	6.80	129.40	120.28
1	9j	79	GLU	CA-C-O	-6.80	113.34	120.55
1	9u	167	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	9J	15	ILE	N-CA-C	6.80	118.12	108.93
1	9U	26	VAL	CA-C-N	6.80	129.13	120.56
1	9U	26	VAL	C-N-CA	6.80	129.13	120.56
1	9X	23	TRP	O-C-N	-6.80	114.26	122.22
1	a0	165	VAL	CA-CB-CG2	6.80	121.97	110.40
1	a1	97	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	a1	162	ARG	NE-CZ-NH1	6.80	128.31	121.50
1	a2	6	LEU	CA-C-N	6.80	131.80	122.07
1	a2	6	LEU	C-N-CA	6.80	131.80	122.07
1	10	125	PRO	CA-C-N	6.80	129.38	120.60
1	10	125	PRO	C-N-CA	6.80	129.38	120.60
1	ac	73	ILE	CA-C-O	-6.80	113.87	120.95
1	at	221	VAL	O-C-N	-6.80	115.19	122.61
1	bb	64	ALA	N-CA-C	6.80	118.78	111.36
1	bl	48	THR	CA-C-O	-6.80	113.83	120.97
1	bA	14	ALA	CA-C-N	6.80	134.22	121.97
1	bA	14	ALA	C-N-CA	6.80	134.22	121.97
1	19	229	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	bI	14	ALA	N-CA-C	6.80	120.55	110.48
1	bW	143	ARG	NE-CZ-NH1	6.80	128.31	121.50
1	cQ	81	ASP	CA-CB-CG	-6.80	105.80	112.60
1	dx	45	GLU	N-CA-C	6.80	122.60	111.37
1	e8	82	ARG	NE-CZ-NH2	6.80	125.32	119.20
1	ee	183	ASN	N-CA-C	6.80	119.53	111.71
1	en	103	ASP	CA-C-O	6.80	127.97	120.82
1	ep	103	ASP	CA-C-N	6.80	129.13	120.56
1	ep	103	ASP	C-N-CA	6.80	129.13	120.56
1	f7	51	ASP	O-C-N	-6.80	114.91	122.12
1	fD	185	MET	CG-SD-CE	-6.80	85.93	100.90
1	fN	194	ALA	CA-C-O	6.80	128.98	121.56
1	fP	135	ILE	N-CA-CB	6.80	118.51	110.55
1	g6	82	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	g	116	GLY	CA-C-N	6.80	130.65	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	116	GLY	C-N-CA	6.80	130.65	120.31
1	X	130	TYR	CA-C-N	6.80	129.73	120.54
1	X	130	TYR	C-N-CA	6.80	129.73	120.54
1	gm	222	GLY	CA-C-O	6.80	127.58	119.82
1	hQ	169	TYR	CB-CG-CD1	6.80	131.00	120.80
1	hZ	127	GLY	CA-C-N	6.80	129.72	120.54
1	hZ	127	GLY	C-N-CA	6.80	129.72	120.54
1	it	115	ILE	CA-CB-CG2	6.80	122.06	110.50
1	iV	138	LEU	N-CA-C	6.80	118.35	111.07
1	jc	81	ASP	CA-C-N	6.80	129.40	120.28
1	jc	81	ASP	C-N-CA	6.80	129.40	120.28
1	kw	81	ASP	N-CA-C	6.80	118.35	111.07
1	ld	100	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	lH	196	PRO	CA-C-N	6.80	129.69	120.44
1	lH	196	PRO	C-N-CA	6.80	129.69	120.44
1	2j	191	VAL	CA-C-N	6.80	129.28	120.44
1	2j	191	VAL	C-N-CA	6.80	129.28	120.44
1	2V	163	ASP	O-C-N	-6.80	114.91	122.12
1	35	164	TYR	CB-CA-C	6.80	121.56	110.88
1	3E	126	VAL	N-CA-CB	6.80	119.79	110.54
1	4T	64	ALA	O-C-N	-6.80	115.06	122.07
1	6c	168	PHE	CA-C-N	6.80	129.40	120.28
1	6c	168	PHE	C-N-CA	6.80	129.40	120.28
1	6m	156	GLY	CA-C-N	6.80	128.34	119.84
1	6m	156	GLY	C-N-CA	6.80	128.34	119.84
1	6S	229	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	7e	30	LYS	O-C-N	-6.80	115.18	122.19
1	87	150	ILE	CA-C-N	6.80	134.85	121.58
1	87	150	ILE	C-N-CA	6.80	134.85	121.58
1	8F	42	ALA	O-C-N	-6.80	114.91	122.12
1	8M	169	TYR	N-CA-C	6.80	119.56	111.33
1	9D	189	LEU	N-CA-C	6.80	119.56	111.33
1	aw	78	ALA	N-CA-C	6.80	118.78	111.36
1	b3	155	GLN	OE1-CD-NE2	-6.80	115.80	122.60
1	bK	74	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	ez	70	LYS	N-CA-C	6.80	118.69	111.28
1	eI	26	VAL	N-CA-C	6.80	118.38	110.62
1	u	208	ALA	CA-C-N	6.80	131.02	120.75
1	u	208	ALA	C-N-CA	6.80	131.02	120.75
1	z	160	PRO	N-CA-CB	6.80	109.03	103.32
1	gd	43	LEU	CA-C-O	6.80	127.76	120.55
1	gf	183	ASN	CA-C-N	6.80	129.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	183	ASN	C-N-CA	6.80	129.39	120.28
1	gv	188	THR	CA-C-N	6.80	129.39	120.28
1	gv	188	THR	C-N-CA	6.80	129.39	120.28
1	gM	122	PRO	CA-C-N	6.80	126.77	119.76
1	gM	122	PRO	C-N-CA	6.80	126.77	119.76
1	gT	202	LEU	O-C-N	-6.80	114.91	122.12
1	gV	62	HIS	N-CA-CB	6.80	122.48	111.74
1	hk	47	ALA	N-CA-C	6.80	120.35	110.28
1	hB	110	THR	O-C-N	-6.80	115.28	122.96
1	i5	162	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	il	165	VAL	CA-C-O	6.80	128.02	120.95
1	ip	11	VAL	CA-C-O	-6.80	114.65	121.45
1	iE	46	GLY	O-C-N	-6.80	116.38	122.57
1	iU	35	GLU	CA-C-O	6.80	127.75	119.38
1	j8	91	ILE	CA-CB-CG1	6.80	121.96	110.40
1	jq	72	THR	O-C-N	-6.80	114.91	122.12
1	jz	226	HIS	N-CA-C	-6.80	104.95	113.18
1	jT	82	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	jU	159	GLU	CA-C-O	-6.80	113.00	119.80
1	k3	185	MET	CA-C-O	6.80	127.79	119.97
1	kf	132	ARG	N-CA-C	6.80	118.69	111.28
1	ks	162	ARG	N-CA-C	-6.80	104.01	112.72
1	l1	4	GLN	N-CA-CB	6.80	121.98	110.49
1	lI	183	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	2e	22	ALA	N-CA-C	6.80	118.35	111.07
1	2r	115	ILE	CA-C-N	6.80	127.67	119.99
1	2r	115	ILE	C-N-CA	6.80	127.67	119.99
1	2H	226	HIS	CB-CG-CD2	-6.80	122.36	131.20
1	34	190	LEU	CA-C-N	6.80	129.18	120.88
1	34	190	LEU	C-N-CA	6.80	129.18	120.88
1	3e	164	TYR	CA-C-O	6.80	127.76	120.55
1	3w	8	GLY	CA-C-N	6.80	131.62	120.94
1	3w	8	GLY	C-N-CA	6.80	131.62	120.94
1	3L	45	GLU	N-CA-C	6.80	119.27	111.11
1	4x	198	CYS	CA-C-O	6.80	127.76	120.55
1	4U	197	ASP	CA-CB-CG	-6.80	105.80	112.60
1	5L	153	ILE	O-C-N	-6.80	115.42	122.63
1	68	87	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	6m	50	GLN	N-CA-C	6.80	118.69	111.28
1	6X	12	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	7a	12	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	7f	121	ASN	OD1-CG-ND2	-6.80	115.80	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7l	75	GLU	CA-C-O	6.80	127.96	120.82
1	7m	62	HIS	CA-CB-CG	-6.80	107.00	113.80
1	8p	72	THR	O-C-N	-6.80	115.02	122.09
1	8E	74	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	9g	167	ARG	NE-CZ-NH2	6.80	125.32	119.20
1	9r	159	GLU	O-C-N	-6.80	115.53	121.31
1	ad	83	LEU	N-CA-C	6.80	118.35	111.07
1	aR	159	GLU	CA-C-O	-6.80	113.71	119.76
1	aS	143	ARG	O-C-N	-6.80	115.06	122.07
1	bq	193	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	bN	84	HIS	CA-C-N	6.80	126.77	119.76
1	bN	84	HIS	C-N-CA	6.80	126.77	119.76
1	d8	128	GLU	N-CA-C	6.80	118.35	111.07
1	dK	169	TYR	O-C-N	-6.80	114.39	122.15
1	e0	198	CYS	CA-C-N	6.80	129.28	120.44
1	e0	198	CYS	C-N-CA	6.80	129.28	120.44
1	e4	1	PRO	CB-CA-C	6.80	123.02	110.10
1	eE	84	HIS	CA-CB-CG	-6.80	107.00	113.80
1	eP	97	ARG	N-CA-C	6.80	119.08	110.24
1	eU	184	TRP	CA-C-N	6.80	129.72	120.54
1	eU	184	TRP	C-N-CA	6.80	129.72	120.54
1	fl	209	ALA	N-CA-C	6.80	120.25	109.50
1	fu	66	MET	O-C-N	-6.80	114.91	122.12
1	1B	226	HIS	CB-CG-ND1	6.80	132.90	122.70
1	2	110	THR	CA-CB-OG1	6.80	119.80	109.60
1	g8	53	ASN	CA-C-N	6.80	129.39	120.28
1	g8	53	ASN	C-N-CA	6.80	129.39	120.28
1	h4	25	LYS	N-CA-CB	6.80	119.87	110.01
1	h4	53	ASN	O-C-N	-6.80	115.07	122.07
1	h8	81	ASP	CA-CB-CG	6.80	119.40	112.60
1	hq	199	LYS	O-C-N	-6.80	114.27	122.22
1	hY	192	GLN	N-CA-C	6.80	119.53	111.71
1	ir	42	ALA	N-CA-C	6.80	118.69	111.28
1	iD	174	ALA	CA-C-O	6.80	127.70	120.70
1	jg	191	VAL	CA-C-N	6.80	130.64	120.31
1	jg	191	VAL	C-N-CA	6.80	130.64	120.31
1	jP	104	ILE	O-C-N	-6.80	114.83	121.83
1	l2	162	ARG	N-CA-C	6.80	118.69	111.28
1	l6	114	GLN	N-CA-C	6.80	119.27	111.11
1	lc	179	GLN	CA-C-N	6.80	129.39	120.28
1	lc	179	GLN	C-N-CA	6.80	129.39	120.28
1	ls	76	GLU	CA-C-O	6.80	127.56	119.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	68	MET	CA-C-O	6.80	127.96	120.82
1	2k	216	THR	N-CA-CB	6.80	119.93	110.07
1	2m	18	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	2X	109	SER	O-C-N	-6.80	114.97	123.27
1	2Y	230	VAL	N-CA-CB	-6.80	103.50	111.39
1	3G	160	PRO	N-CA-CB	6.80	109.75	103.15
1	4l	162	ARG	N-CA-C	6.80	118.35	111.07
1	4S	89	GLY	CA-C-N	6.80	126.76	119.76
1	4S	89	GLY	C-N-CA	6.80	126.76	119.76
1	4Y	25	LYS	CA-C-N	6.80	129.13	120.56
1	4Y	25	LYS	C-N-CA	6.80	129.13	120.56
1	56	129	ILE	CB-CA-C	-6.80	103.27	111.97
1	5C	168	PHE	CA-C-N	6.80	129.39	120.28
1	5C	168	PHE	C-N-CA	6.80	129.39	120.28
1	6y	126	VAL	CA-C-N	6.80	127.53	119.98
1	6y	126	VAL	C-N-CA	6.80	127.53	119.98
1	6K	199	LYS	CA-C-O	6.80	127.76	120.55
1	76	16	SER	CA-C-O	-6.80	112.91	120.25
1	7A	24	VAL	CA-C-N	6.80	129.39	120.28
1	7A	24	VAL	C-N-CA	6.80	129.39	120.28
1	85	196	PRO	CA-C-N	6.80	129.28	120.44
1	85	196	PRO	C-N-CA	6.80	129.28	120.44
1	8b	35	GLU	CB-CG-CD	6.80	124.16	112.60
1	8q	121	ASN	N-CA-CB	6.80	120.06	110.07
1	8J	165	VAL	CB-CA-C	6.80	120.95	112.04
1	8W	110	THR	CA-C-N	6.80	129.39	120.28
1	8W	110	THR	C-N-CA	6.80	129.39	120.28
1	92	226	HIS	CB-CG-CD2	-6.80	122.36	131.20
1	9o	163	ASP	CA-C-N	6.80	129.72	120.54
1	9o	163	ASP	C-N-CA	6.80	129.72	120.54
1	9q	155	GLN	OE1-CD-NE2	-6.80	115.80	122.60
1	9r	148	THR	N-CA-C	6.80	119.47	108.32
1	9J	16	SER	CA-C-O	-6.80	114.48	120.19
1	12	179	GLN	N-CA-C	6.80	118.77	111.36
1	aL	137	GLY	O-C-N	-6.80	114.52	122.34
1	bh	203	LYS	O-C-N	-6.80	114.27	122.22
1	bk	212	GLU	N-CA-C	6.80	119.56	111.33
1	bo	80	TRP	CD2-CE2-CZ2	6.80	129.20	122.40
1	c4	142	VAL	N-CA-C	6.80	119.55	111.05
1	c5	60	GLY	O-C-N	6.80	131.54	122.70
1	cm	55	MET	N-CA-CB	6.80	120.22	110.16
1	cn	102	SER	N-CA-C	6.80	119.71	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d3	170	LYS	N-CA-C	6.80	119.27	111.11
1	d5	87	HIS	ND1-CE1-NE2	6.80	115.20	108.40
1	da	163	ASP	CA-C-N	6.80	129.39	120.28
1	da	163	ASP	C-N-CA	6.80	129.39	120.28
1	dd	58	THR	CA-CB-OG1	6.80	119.80	109.60
1	ea	75	GLU	CA-C-N	6.80	129.39	120.28
1	ea	75	GLU	C-N-CA	6.80	129.39	120.28
1	ex	12	HIS	CG-CD2-NE2	6.80	114.00	107.20
1	eN	27	VAL	N-CA-C	-6.80	104.03	110.42
1	f4	114	GLN	CA-C-N	6.80	129.78	120.46
1	f4	114	GLN	C-N-CA	6.80	129.78	120.46
1	fx	103	ASP	CA-C-N	6.80	130.07	120.42
1	fx	103	ASP	C-N-CA	6.80	130.07	120.42
1	g0	206	GLY	O-C-N	-6.80	114.97	121.77
1	g5	29	GLU	N-CA-C	6.80	120.80	112.23
1	M	13	GLN	OE1-CD-NE2	-6.80	115.80	122.60
1	gs	167	ARG	NE-CZ-NH1	6.80	128.30	121.50
1	gt	97	ARG	NE-CZ-NH2	-6.80	113.08	119.20
1	gA	87	HIS	CA-CB-CG	-6.80	107.00	113.80
1	hp	100	ARG	CA-C-N	6.80	127.48	120.00
1	hp	100	ARG	C-N-CA	6.80	127.48	120.00
1	i1	59	VAL	N-CA-C	6.80	117.81	108.84
1	ib	181	VAL	CA-C-N	6.80	129.39	120.28
1	ib	181	VAL	C-N-CA	6.80	129.39	120.28
1	je	148	THR	OG1-CB-CG2	-6.80	95.70	109.30
1	jk	125	PRO	CA-C-O	-6.80	116.28	121.31
1	jT	41	SER	N-CA-C	6.80	118.69	111.28
1	2q	191	VAL	CA-CB-CG1	6.80	121.96	110.40
1	2K	225	GLY	N-CA-C	6.80	119.75	111.93
1	30	193	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	36	186	THR	CA-C-N	6.80	129.39	120.28
1	36	186	THR	C-N-CA	6.80	129.39	120.28
1	4C	51	ASP	N-CA-C	6.80	119.27	111.11
1	6z	175	GLU	CA-C-N	6.80	132.38	123.00
1	6z	175	GLU	C-N-CA	6.80	132.38	123.00
1	7V	32	PHE	CA-C-O	6.80	127.66	119.43
1	8G	112	GLN	OE1-CD-NE2	-6.80	115.80	122.60
1	8N	183	ASN	N-CA-C	6.80	118.69	111.28
1	8S	205	LEU	N-CA-C	6.80	118.69	111.28
1	8T	14	ALA	CA-C-N	6.80	129.67	120.63
1	8T	14	ALA	C-N-CA	6.80	129.67	120.63
1	9E	21	ASN	CA-CB-CG	6.80	119.40	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9O	193	ASN	N-CA-CB	-6.80	99.74	110.28
1	ac	92	GLU	N-CA-C	6.80	119.29	109.84
1	as	81	ASP	O-C-N	-6.80	114.92	122.12
1	bQ	165	VAL	CA-C-N	6.80	129.69	120.44
1	bQ	165	VAL	C-N-CA	6.80	129.69	120.44
1	bZ	55	MET	N-CA-C	6.80	118.34	111.07
1	1c	16	SER	CA-C-N	6.80	126.60	119.05
1	1c	16	SER	C-N-CA	6.80	126.60	119.05
1	1e	74	ASN	CA-CB-CG	-6.80	105.80	112.60
1	cr	66	MET	N-CA-C	6.80	118.69	111.28
1	cR	128	GLU	CA-CB-CG	6.80	127.69	114.10
1	dk	200	THR	N-CA-CB	6.80	120.11	110.12
1	do	212	GLU	N-CA-CB	6.80	119.83	109.91
1	eB	18	ARG	CA-C-O	6.80	127.76	120.55
1	eY	164	TYR	CA-C-N	6.80	129.12	120.56
1	eY	164	TYR	C-N-CA	6.80	129.12	120.56
1	1x	194	ALA	CA-C-N	6.80	129.90	120.65
1	1x	194	ALA	C-N-CA	6.80	129.90	120.65
1	d	173	ARG	N-CA-C	6.80	119.53	111.71
1	m	129	ILE	CA-C-N	6.80	129.28	120.44
1	m	129	ILE	C-N-CA	6.80	129.28	120.44
1	p	33	SER	O-C-N	-6.80	115.54	121.32
1	L	130	TYR	CA-C-N	6.80	129.39	120.28
1	L	130	TYR	C-N-CA	6.80	129.39	120.28
1	gm	125	PRO	CA-C-N	6.80	130.07	120.42
1	gm	125	PRO	C-N-CA	6.80	130.07	120.42
1	gP	112	GLN	N-CA-C	6.80	118.69	111.28
1	hd	55	MET	N-CA-C	6.80	119.31	111.02
1	hp	73	ILE	O-C-N	-6.80	114.12	121.80
1	i4	80	TRP	N-CA-C	6.80	118.34	111.07
1	if	216	THR	N-CA-C	-6.80	104.62	113.12
1	il	184	TRP	CB-CG-CD2	6.80	136.31	126.80
1	j2	133	TRP	N-CA-CB	6.80	119.86	110.01
1	1U	163	ASP	CA-C-N	6.80	129.28	120.44
1	1U	163	ASP	C-N-CA	6.80	129.28	120.44
1	jk	188	THR	N-CA-C	-6.80	104.00	112.90
1	jD	32	PHE	O-C-N	-6.80	114.12	122.82
1	jI	143	ARG	NH1-CZ-NH2	-6.80	110.47	119.30
1	jQ	80	TRP	O-C-N	-6.80	114.92	122.12
1	kl	206	GLY	CA-C-N	6.80	126.94	119.87
1	kl	206	GLY	C-N-CA	6.80	126.94	119.87
1	kq	62	HIS	CA-C-N	6.80	129.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	62	HIS	C-N-CA	6.80	129.28	120.44
1	kO	64	ALA	CA-C-O	-6.80	113.69	120.82
1	kX	195	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	27	185	MET	CA-C-N	6.80	129.72	120.54
1	27	185	MET	C-N-CA	6.80	129.72	120.54
1	28	163	ASP	N-CA-C	6.80	118.34	111.07
1	lt	226	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	2G	21	ASN	CA-C-O	-6.80	113.34	120.55
1	2T	15	ILE	CA-C-N	6.80	129.84	120.39
1	2T	15	ILE	C-N-CA	6.80	129.84	120.39
1	3n	122	PRO	N-CA-CB	6.80	110.08	102.60
1	3Y	166	ASP	N-CA-C	6.80	119.70	111.82
1	4y	125	PRO	CB-CA-C	6.80	123.41	112.06
1	4z	167	ARG	CA-C-N	6.80	130.24	120.79
1	4z	167	ARG	C-N-CA	6.80	130.24	120.79
1	6b	147	PRO	N-CA-CB	-6.80	97.61	103.32
1	6w	184	TRP	CA-C-N	6.80	129.39	120.28
1	6w	184	TRP	C-N-CA	6.80	129.39	120.28
1	7E	211	LEU	CA-C-N	6.80	129.39	120.28
1	7E	211	LEU	C-N-CA	6.80	129.39	120.28
1	7H	92	GLU	CA-C-N	6.80	128.34	119.84
1	7H	92	GLU	C-N-CA	6.80	128.34	119.84
1	7L	226	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	7P	62	HIS	ND1-CG-CD2	6.80	112.90	106.10
1	7R	202	LEU	N-CA-C	6.80	119.53	111.71
1	80	16	SER	N-CA-C	6.80	118.21	109.65
1	80	136	LEU	CA-C-N	6.80	127.52	119.98
1	80	136	LEU	C-N-CA	6.80	127.52	119.98
1	8m	68	MET	CA-C-N	6.80	129.94	120.29
1	8m	68	MET	C-N-CA	6.80	129.94	120.29
1	8E	30	LYS	CA-C-N	6.80	129.69	120.38
1	8E	30	LYS	C-N-CA	6.80	129.69	120.38
1	8J	125	PRO	N-CA-CB	6.80	107.38	102.28
1	97	60	GLY	CA-C-N	6.80	127.85	120.44
1	97	60	GLY	C-N-CA	6.80	127.85	120.44
1	9a	64	ALA	CA-C-N	6.80	129.39	120.28
1	9a	64	ALA	C-N-CA	6.80	129.39	120.28
1	9o	50	GLN	O-C-N	-6.80	115.02	122.09
1	9x	142	VAL	N-CA-C	6.80	119.55	111.05
1	9B	12	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	a9	169	TYR	N-CA-C	6.80	119.27	111.11
1	12	189	LEU	CA-C-N	6.80	129.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12	189	LEU	C-N-CA	6.80	129.39	120.28
1	aI	122	PRO	CA-C-N	6.80	126.82	119.89
1	aI	122	PRO	C-N-CA	6.80	126.82	119.89
1	bg	77	ALA	N-CA-C	6.80	118.69	111.28
1	bs	131	LYS	CA-C-N	6.80	129.39	120.28
1	bs	131	LYS	C-N-CA	6.80	129.39	120.28
1	bC	115	ILE	CA-C-N	6.80	127.48	119.94
1	bC	115	ILE	C-N-CA	6.80	127.48	119.94
1	bQ	98	GLU	N-CA-C	6.80	120.16	110.24
1	bR	26	VAL	N-CA-C	6.80	117.55	110.62
1	c0	16	SER	N-CA-C	6.80	119.29	109.84
1	ch	166	ASP	N-CA-C	6.80	119.27	111.11
1	cm	177	ALA	CA-C-N	6.80	130.36	120.71
1	cm	177	ALA	C-N-CA	6.80	130.36	120.71
1	cO	218	CYS	CA-C-O	-6.80	113.70	121.65
1	cR	107	THR	N-CA-CB	6.80	120.81	110.28
1	cV	87	HIS	CE1-NE2-CD2	-6.80	102.20	109.00
1	d9	179	GLN	N-CA-C	6.80	118.69	111.28
1	dA	76	GLU	N-CA-C	6.80	119.55	111.33
1	dR	162	ARG	N-CA-C	6.80	118.69	111.28
1	ec	193	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	eF	68	MET	CA-C-N	6.80	129.28	120.44
1	eF	68	MET	C-N-CA	6.80	129.28	120.44
1	eN	193	ASN	OD1-CG-ND2	-6.80	115.80	122.60
1	1w	82	ARG	N-CA-C	6.80	120.83	112.54
1	1z	210	THR	CA-C-N	6.80	129.69	120.38
1	1z	210	THR	C-N-CA	6.80	129.69	120.38
1	W	18	ARG	O-C-N	-6.80	114.75	122.09
1	6	129	ILE	O-C-N	-6.80	114.83	121.83
1	hn	65	ALA	CA-C-O	-6.79	113.22	120.42
1	hG	95	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	jB	18	ARG	NE-CZ-NH2	6.79	125.32	119.20
1	34	183	ASN	N-CA-C	6.79	118.77	111.36
1	3V	132	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	3Z	37	ILE	CA-C-N	6.79	126.31	119.24
1	3Z	37	ILE	C-N-CA	6.79	126.31	119.24
1	4v	14	ALA	CA-C-N	6.79	134.20	121.97
1	4v	14	ALA	C-N-CA	6.79	134.20	121.97
1	7P	24	VAL	CA-C-N	6.79	129.38	120.28
1	7P	24	VAL	C-N-CA	6.79	129.38	120.28
1	81	132	ARG	CB-CA-C	-6.79	99.30	110.85
1	9h	143	ARG	N-CA-C	6.79	118.34	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9v	101	GLY	N-CA-C	6.79	120.88	112.73
1	a6	226	HIS	CG-CD2-NE2	6.79	114.00	107.20
1	dG	104	ILE	N-CA-C	6.79	117.55	110.62
1	en	50	GLN	CA-C-O	6.79	128.13	121.00
1	er	186	THR	O-C-N	6.79	129.07	122.07
1	et	201	ILE	CA-C-O	-6.79	113.51	121.05
1	f1	27	VAL	N-CA-C	6.79	118.37	110.62
1	f3	33	SER	CA-C-O	-6.79	112.91	120.25
1	9	25	LYS	O-C-N	-6.79	115.02	122.09
1	g8	142	VAL	O-C-N	-6.79	114.08	122.57
1	g9	59	VAL	CB-CA-C	6.79	121.58	111.26
1	gi	42	ALA	N-CA-CB	-6.79	100.22	110.07
1	gp	131	LYS	CA-C-N	6.79	129.38	120.28
1	gp	131	LYS	C-N-CA	6.79	129.38	120.28
1	gG	94	GLY	CA-C-O	6.79	126.56	119.02
1	hn	139	ASN	CA-CB-CG	-6.79	105.81	112.60
1	hn	143	ARG	NH1-CZ-NH2	-6.79	110.47	119.30
1	hF	82	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	hL	191	VAL	CA-C-N	6.79	129.38	120.28
1	hL	191	VAL	C-N-CA	6.79	129.38	120.28
1	hO	85	PRO	CA-C-N	6.79	131.66	122.01
1	hO	85	PRO	C-N-CA	6.79	131.66	122.01
1	im	53	ASN	CA-CB-CG	-6.79	105.81	112.60
1	iS	100	ARG	CA-C-N	6.79	134.72	121.41
1	iS	100	ARG	C-N-CA	6.79	134.72	121.41
1	jL	92	GLU	O-C-N	-6.79	114.43	120.48
1	kC	14	ALA	CA-C-N	6.79	129.67	120.63
1	kC	14	ALA	C-N-CA	6.79	129.67	120.63
1	kX	57	ASN	OD1-CG-ND2	6.79	129.39	122.60
1	lv	143	ARG	CA-C-N	6.79	129.27	120.44
1	lv	143	ARG	C-N-CA	6.79	129.27	120.44
1	lD	23	TRP	N-CA-C	6.79	118.68	111.28
1	34	93	PRO	O-C-N	6.79	131.13	122.91
1	3v	21	ASN	OD1-CG-ND2	-6.79	115.81	122.60
1	3x	193	ASN	N-CA-C	-6.79	104.89	113.72
1	3L	193	ASN	CA-C-N	6.79	130.36	120.71
1	3L	193	ASN	C-N-CA	6.79	130.36	120.71
1	4p	163	ASP	CA-C-N	6.79	129.94	120.29
1	4p	163	ASP	C-N-CA	6.79	129.94	120.29
1	4z	120	HIS	CG-CD2-NE2	6.79	113.99	107.20
1	4H	12	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
1	4S	205	LEU	CA-C-N	6.79	132.53	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4S	205	LEU	C-N-CA	6.79	132.53	121.87
1	5X	124	ILE	O-C-N	-6.79	117.09	121.37
1	5X	226	HIS	CG-CD2-NE2	6.79	113.99	107.20
1	6J	212	GLU	N-CA-C	6.79	118.69	111.28
1	6L	209	ALA	N-CA-CB	6.79	120.08	109.69
1	6W	161	PHE	N-CA-C	6.79	118.69	111.28
1	6X	103	ASP	CA-C-N	6.79	129.77	120.46
1	6X	103	ASP	C-N-CA	6.79	129.77	120.46
1	7f	54	THR	N-CA-C	6.79	118.34	111.07
1	7M	7	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	8k	226	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
1	8m	67	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	91	131	LYS	CA-C-N	6.79	129.71	120.54
1	91	131	LYS	C-N-CA	6.79	129.71	120.54
1	9d	22	ALA	CA-C-N	6.79	129.27	120.44
1	9d	22	ALA	C-N-CA	6.79	129.27	120.44
1	9f	40	PHE	O-C-N	-6.79	115.03	122.09
1	9s	33	SER	CA-C-N	6.79	126.49	119.56
1	9s	33	SER	C-N-CA	6.79	126.49	119.56
1	9U	226	HIS	CA-CB-CG	-6.79	107.01	113.80
1	9X	74	ASN	CA-C-N	6.79	129.68	120.44
1	9X	74	ASN	C-N-CA	6.79	129.68	120.44
1	aP	208	ALA	N-CA-C	6.79	119.70	111.82
1	aY	220	GLY	CA-C-N	6.79	129.12	120.56
1	aY	220	GLY	C-N-CA	6.79	129.12	120.56
1	16	89	GLY	CA-C-N	6.79	128.33	119.84
1	16	89	GLY	C-N-CA	6.79	128.33	119.84
1	bS	74	ASN	CA-C-N	6.79	129.27	120.44
1	bS	74	ASN	C-N-CA	6.79	129.27	120.44
1	cc	23	TRP	O-C-N	-6.79	115.07	122.07
1	cz	142	VAL	CA-C-N	6.79	129.38	120.28
1	cz	142	VAL	C-N-CA	6.79	129.38	120.28
1	cJ	48	THR	N-CA-CB	6.79	117.62	109.74
1	cK	14	ALA	O-C-N	-6.79	115.00	123.01
1	cT	37	ILE	CA-C-N	6.79	126.25	118.85
1	cT	37	ILE	C-N-CA	6.79	126.25	118.85
1	dd	56	LEU	N-CA-C	6.79	118.69	111.28
1	di	53	ASN	CB-CG-ND2	-6.79	106.21	116.40
1	dm	95	GLN	CA-C-N	6.79	130.81	120.82
1	dm	95	GLN	C-N-CA	6.79	130.81	120.82
1	dv	185	MET	N-CA-CB	6.79	119.86	110.01
1	dD	18	ARG	NH1-CZ-NH2	-6.79	110.47	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dN	146	SER	CA-C-N	6.79	128.33	119.84
1	dN	146	SER	C-N-CA	6.79	128.33	119.84
1	eb	223	GLY	O-C-N	-6.79	114.98	121.77
1	ed	62	HIS	CA-C-N	6.79	129.71	120.54
1	ed	62	HIS	C-N-CA	6.79	129.71	120.54
1	eC	42	ALA	O-C-N	6.79	129.32	122.12
1	eR	195	ASN	CA-C-N	6.79	127.06	119.32
1	eR	195	ASN	C-N-CA	6.79	127.06	119.32
1	fm	38	PRO	CB-CA-C	6.79	122.74	112.55
1	fR	155	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	e	179	GLN	CB-CG-CD	6.79	124.15	112.60
1	E	24	VAL	N-CA-CB	6.79	118.50	110.55
1	X	40	PHE	CA-C-O	-6.79	113.60	121.07
1	g8	104	ILE	N-CA-C	6.79	117.55	110.62
1	gk	3	VAL	CB-CA-C	-6.79	102.78	111.20
1	gE	117	TRP	O-C-N	-6.79	113.92	122.27
1	gF	94	GLY	O-C-N	-6.79	117.38	123.29
1	gI	158	LYS	CB-CA-C	-6.79	99.24	110.72
1	1J	88	ALA	N-CA-CB	-6.79	100.03	110.42
1	1K	156	GLY	CA-C-N	6.79	126.39	119.19
1	1K	156	GLY	C-N-CA	6.79	126.39	119.19
1	hX	152	ASP	O-C-N	-6.79	113.39	122.22
1	ib	174	ALA	N-CA-C	6.79	118.57	111.03
1	ih	74	ASN	N-CA-C	6.79	119.70	111.82
1	iD	172	LEU	O-C-N	-6.79	115.07	122.07
1	iP	27	VAL	N-CA-C	6.79	116.81	110.42
1	j3	226	HIS	CA-C-O	6.79	127.30	119.35
1	jI	148	THR	N-CA-C	-6.79	104.89	113.72
1	k2	13	GLN	CA-C-N	6.79	131.00	120.75
1	k2	13	GLN	C-N-CA	6.79	131.00	120.75
1	k2	187	GLU	N-CA-C	6.79	119.26	111.11
1	ke	99	PRO	CA-C-O	-6.79	113.29	121.03
1	kJ	73	ILE	N-CA-CB	6.79	118.50	110.55
1	l5	115	ILE	CA-C-N	6.79	127.48	119.94
1	l5	115	ILE	C-N-CA	6.79	127.48	119.94
1	lr	134	ILE	CA-C-O	6.79	128.37	121.17
1	2J	206	GLY	O-C-N	-6.79	114.98	121.77
1	3M	19	THR	N-CA-CB	6.79	119.86	110.01
1	4N	57	ASN	CA-CB-CG	-6.79	105.81	112.60
1	4U	193	ASN	CA-C-O	6.79	127.65	119.43
1	4Y	167	ARG	CA-C-N	6.79	129.27	120.44
1	4Y	167	ARG	C-N-CA	6.79	129.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	18	ARG	CA-C-O	6.79	127.95	120.82
1	5x	162	ARG	CA-C-N	6.79	129.38	120.28
1	5x	162	ARG	C-N-CA	6.79	129.38	120.28
1	5W	31	ALA	N-CA-C	6.79	120.44	111.75
1	62	179	GLN	N-CA-C	6.79	119.55	111.33
1	6Z	30	LYS	N-CA-CB	6.79	120.87	110.61
1	71	192	GLN	N-CA-C	6.79	119.70	111.82
1	7I	96	MET	O-C-N	-6.79	115.28	123.16
1	7I	96	MET	CG-SD-CE	-6.79	85.96	100.90
1	85	164	TYR	O-C-N	-6.79	115.03	122.09
1	8S	209	ALA	CB-CA-C	-6.79	101.45	109.80
1	8Y	70	LYS	N-CA-C	6.79	118.68	111.28
1	98	164	TYR	N-CA-C	6.79	118.68	111.28
1	ar	205	LEU	CA-C-O	6.79	126.61	119.14
1	aM	21	ASN	N-CA-CB	6.79	119.86	110.01
1	aP	88	ALA	O-C-N	-6.79	115.28	123.16
1	aX	122	PRO	CA-C-N	6.79	126.75	119.76
1	aX	122	PRO	C-N-CA	6.79	126.75	119.76
1	b6	95	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	bR	10	MET	N-CA-C	6.79	125.27	110.80
1	db	113	GLU	N-CA-C	6.79	119.70	111.82
1	de	3	VAL	CA-C-O	6.79	129.16	121.28
1	dr	6	LEU	CA-C-N	6.79	131.76	122.19
1	dr	6	LEU	C-N-CA	6.79	131.76	122.19
1	1n	18	ARG	NE-CZ-NH2	6.79	125.31	119.20
1	ea	201	ILE	N-CA-C	6.79	116.94	110.42
1	er	161	PHE	CA-CB-CG	6.79	120.59	113.80
1	1r	210	THR	CA-CB-OG1	6.79	119.79	109.60
1	ew	205	LEU	N-CA-C	6.79	118.68	111.28
1	eV	219	GLN	CA-C-O	6.79	127.40	119.32
1	eZ	174	ALA	N-CA-C	6.79	118.68	111.28
1	ft	100	ARG	CA-C-N	6.79	127.52	119.98
1	ft	100	ARG	C-N-CA	6.79	127.52	119.98
1	fD	203	LYS	N-CA-C	6.79	119.52	111.71
1	fF	109	SER	O-C-N	-6.79	115.46	123.41
1	g6	154	ARG	O-C-N	-6.79	115.36	123.03
1	y	63	GLN	CB-CG-CD	-6.79	101.06	112.60
1	K	115	ILE	CA-C-N	6.79	127.47	120.00
1	K	115	ILE	C-N-CA	6.79	127.47	120.00
1	g9	171	THR	CA-C-O	6.79	127.75	120.55
1	gN	162	ARG	NE-CZ-NH2	-6.79	113.09	119.20
1	gQ	44	SER	CB-CA-C	-6.79	102.64	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gW	33	SER	CA-C-N	6.79	128.33	119.84
1	gW	33	SER	C-N-CA	6.79	128.33	119.84
1	h5	136	LEU	CA-C-O	6.79	127.75	120.55
1	hd	226	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
1	iM	55	MET	CG-SD-CE	-6.79	85.96	100.90
1	iX	149	SER	O-C-N	-6.79	115.29	122.96
1	jN	46	GLY	O-C-N	-6.79	113.87	122.70
1	jR	29	GLU	N-CA-C	6.79	118.76	111.36
1	2k	179	GLN	N-CA-C	6.79	119.26	111.11
1	2G	59	VAL	O-C-N	-6.79	114.85	122.66
1	2Q	81	ASP	CA-CB-CG	6.79	119.39	112.60
1	3R	176	GLN	N-CA-CB	6.79	121.97	110.49
1	4r	84	HIS	O-C-N	-6.79	115.09	121.20
1	4M	152	ASP	O-C-N	-6.79	114.17	122.25
1	64	61	GLY	CA-C-N	6.79	132.00	122.36
1	64	61	GLY	C-N-CA	6.79	132.00	122.36
1	6w	110	THR	O-C-N	-6.79	114.85	122.86
1	7W	186	THR	N-CA-C	6.79	120.04	111.69
1	8f	132	ARG	NE-CZ-NH2	-6.79	113.09	119.20
1	8N	210	THR	CA-C-N	6.79	129.68	120.38
1	8N	210	THR	C-N-CA	6.79	129.68	120.38
1	9k	121	ASN	CA-CB-CG	-6.79	105.81	112.60
1	aq	46	GLY	CA-C-O	6.79	126.56	119.02
1	bg	85	PRO	O-C-N	-6.79	114.71	123.06
1	bh	139	ASN	O-C-N	6.79	129.32	122.12
1	co	166	ASP	CB-CA-C	6.79	121.54	110.88
1	cw	52	LEU	N-CA-C	6.79	118.33	111.07
1	dL	46	GLY	CA-C-N	6.79	130.39	120.82
1	dL	46	GLY	C-N-CA	6.79	130.39	120.82
1	dQ	86	VAL	CA-C-N	6.79	130.47	120.90
1	dQ	86	VAL	C-N-CA	6.79	130.47	120.90
1	dV	83	LEU	N-CA-C	-6.79	103.81	111.07
1	e5	55	MET	CA-C-O	6.79	127.75	120.55
1	ev	120	HIS	CA-C-N	6.79	131.66	122.56
1	ev	120	HIS	C-N-CA	6.79	131.66	122.56
1	fc	200	THR	O-C-N	-6.79	114.92	122.12
1	h5	225	GLY	CA-C-N	6.79	131.13	121.42
1	h5	225	GLY	C-N-CA	6.79	131.13	121.42
1	1H	76	GLU	CA-C-N	6.79	129.26	120.44
1	1H	76	GLU	C-N-CA	6.79	129.26	120.44
1	hq	178	SER	N-CA-C	6.79	119.81	110.24
1	hE	181	VAL	CA-C-N	6.79	129.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hE	181	VAL	C-N-CA	6.79	129.26	120.44
1	hI	223	GLY	CA-C-O	-6.79	111.81	121.52
1	j8	201	ILE	O-C-N	-6.79	115.28	121.87
1	jk	92	GLU	N-CA-C	6.79	119.86	110.01
1	1Y	55	MET	CA-C-O	6.79	127.95	120.82
1	20	126	VAL	N-CA-C	6.79	117.55	110.62
1	kD	57	ASN	CA-CB-CG	-6.79	105.81	112.60
1	kM	180	GLU	CA-C-N	6.79	131.70	121.65
1	kM	180	GLU	C-N-CA	6.79	131.70	121.65
1	2m	58	THR	CA-C-N	6.79	131.36	121.18
1	2m	58	THR	C-N-CA	6.79	131.36	121.18
1	2R	181	VAL	O-C-N	6.79	128.46	121.87
1	32	102	SER	N-CA-C	6.79	120.66	112.38
1	3A	89	GLY	CA-C-N	6.79	128.33	119.84
1	3A	89	GLY	C-N-CA	6.79	128.33	119.84
1	5c	136	LEU	CA-C-N	6.79	127.47	120.00
1	5c	136	LEU	C-N-CA	6.79	127.47	120.00
1	6s	216	THR	CA-C-O	6.79	127.86	119.78
1	6z	26	VAL	N-CA-CB	6.79	120.76	110.58
1	6O	205	LEU	N-CA-C	-6.79	103.81	111.14
1	7z	69	LEU	CA-C-N	6.79	129.38	120.28
1	7z	69	LEU	C-N-CA	6.79	129.38	120.28
1	7P	88	ALA	O-C-N	-6.79	115.48	123.22
1	8i	167	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	9q	203	LYS	O-C-N	-6.79	114.92	122.12
1	9N	4	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	9T	206	GLY	O-C-N	-6.79	114.98	121.77
1	a9	91	ILE	N-CA-C	6.79	117.58	110.72
1	am	142	VAL	N-CA-C	6.79	117.54	110.62
1	ao	120	HIS	CA-CB-CG	6.79	120.59	113.80
1	12	69	LEU	CA-C-N	6.79	129.27	120.44
1	12	69	LEU	C-N-CA	6.79	129.27	120.44
1	aD	178	SER	CA-C-N	6.79	129.38	120.28
1	aD	178	SER	C-N-CA	6.79	129.38	120.28
1	aN	1	PRO	N-CA-CB	6.79	110.47	103.00
1	aV	100	ARG	CA-C-N	6.79	127.47	119.94
1	aV	100	ARG	C-N-CA	6.79	127.47	119.94
1	b2	200	THR	O-C-N	-6.79	115.03	122.09
1	b7	87	HIS	CG-CD2-NE2	6.79	113.99	107.20
1	bG	67	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	bY	135	ILE	N-CA-C	6.79	116.94	110.42
1	cT	177	ALA	O-C-N	-6.79	114.69	122.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	14	ALA	O-C-N	-6.79	115.05	122.79
1	dD	114	GLN	CA-C-N	6.79	129.76	120.46
1	dD	114	GLN	C-N-CA	6.79	129.76	120.46
1	dY	134	ILE	CB-CA-C	-6.79	103.33	111.81
1	eJ	96	MET	CG-SD-CE	-6.79	85.96	100.90
1	eJ	226	HIS	ND1-CE1-NE2	6.79	115.19	108.40
1	eV	219	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	eY	67	GLN	CB-CG-CD	6.79	124.14	112.60
1	fg	32	PHE	CA-CB-CG	-6.79	107.01	113.80
1	1y	5	ASN	N-CA-C	6.79	121.41	113.20
1	fI	79	GLU	N-CA-C	6.79	118.68	111.28
1	fM	78	ALA	CA-C-N	6.79	129.26	120.44
1	fM	78	ALA	C-N-CA	6.79	129.26	120.44
1	fW	4	GLN	N-CA-C	6.79	119.91	108.23
1	g6	183	ASN	CA-CB-CG	6.79	119.39	112.60
1	K	59	VAL	N-CA-C	6.79	118.53	109.37
1	gS	15	ILE	N-CA-CB	6.79	118.66	110.31
1	gV	44	SER	CA-C-N	6.79	129.68	120.38
1	gV	44	SER	C-N-CA	6.79	129.68	120.38
1	gY	121	ASN	OD1-CG-ND2	-6.79	115.81	122.60
1	ht	138	LEU	N-CA-C	6.79	119.54	111.33
1	iQ	20	LEU	CA-C-N	6.79	131.98	121.19
1	iQ	20	LEU	C-N-CA	6.79	131.98	121.19
1	j1	77	ALA	CA-C-O	6.79	127.77	120.10
1	jd	169	TYR	N-CA-CB	6.79	119.85	110.01
1	jl	92	GLU	CA-C-O	-6.79	113.65	120.64
1	jX	223	GLY	CA-C-N	6.79	128.32	119.84
1	jX	223	GLY	C-N-CA	6.79	128.32	119.84
1	22	24	VAL	CA-C-N	6.79	130.05	120.28
1	22	24	VAL	C-N-CA	6.79	130.05	120.28
1	kM	78	ALA	N-CA-C	-6.79	103.96	111.36
1	kW	33	SER	N-CA-C	-6.79	102.03	108.07
1	28	64	ALA	O-C-N	-6.79	114.93	122.12
1	2f	183	ASN	OD1-CG-ND2	-6.79	115.81	122.60
1	3q	126	VAL	N-CA-C	6.79	117.54	110.62
1	42	75	GLU	CB-CA-C	-6.79	99.31	110.85
1	4F	12	HIS	CE1-NE2-CD2	-6.79	102.21	109.00
1	4Q	178	SER	N-CA-C	6.79	119.32	110.43
1	5b	222	GLY	CA-C-N	6.79	130.05	121.36
1	5b	222	GLY	C-N-CA	6.79	130.05	121.36
1	73	110	THR	CA-C-O	6.79	129.82	121.81
1	7M	26	VAL	N-CA-C	6.79	116.94	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8E	149	SER	CA-C-N	6.79	131.75	120.62
1	8E	149	SER	C-N-CA	6.79	131.75	120.62
1	98	180	GLU	CA-C-O	6.79	127.96	120.63
1	bN	7	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	1e	198	CYS	N-CA-C	-6.79	105.15	113.50
1	cI	161	PHE	CA-CB-CG	6.79	120.59	113.80
1	dy	63	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	dS	102	SER	CA-C-N	6.79	129.93	120.29
1	dS	102	SER	C-N-CA	6.79	129.93	120.29
1	dY	105	ALA	N-CA-CB	-6.79	100.65	110.56
1	1r	166	ASP	CA-CB-CG	6.79	119.39	112.60
1	ey	20	LEU	N-CA-C	6.79	118.68	111.28
1	eK	131	LYS	CA-C-N	6.79	129.26	120.44
1	eK	131	LYS	C-N-CA	6.79	129.26	120.44
1	fm	145	TYR	CB-CG-CD1	6.79	130.98	120.80
1	ft	18	ARG	NE-CZ-NH1	6.79	128.29	121.50
1	fL	143	ARG	CA-C-O	-6.79	113.69	120.82
1	O	33	SER	O-C-N	-6.79	114.41	121.60
1	gr	143	ARG	NH1-CZ-NH2	-6.79	110.48	119.30
1	h5	210	THR	N-CA-CB	6.79	120.06	110.36
1	hr	221	VAL	O-C-N	-6.79	115.55	122.54
1	i1	197	ASP	CA-CB-CG	6.79	119.39	112.60
1	ix	155	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	iB	166	ASP	N-CA-CB	-6.79	100.14	110.12
1	iJ	87	HIS	CA-CB-CG	-6.79	107.01	113.80
1	jd	134	ILE	CA-C-N	6.79	130.10	120.53
1	jd	134	ILE	C-N-CA	6.79	130.10	120.53
1	jp	198	CYS	N-CA-C	6.79	118.76	111.36
1	jx	90	PRO	CA-C-N	6.79	130.60	120.69
1	jx	90	PRO	C-N-CA	6.79	130.60	120.69
1	jB	67	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	jO	201	ILE	N-CA-CB	6.79	120.76	110.58
1	kP	36	VAL	CA-C-N	6.79	125.76	120.33
1	kP	36	VAL	C-N-CA	6.79	125.76	120.33
1	lq	91	ILE	N-CA-C	6.79	117.88	110.21
1	lE	78	ALA	CA-C-O	6.79	127.74	120.55
1	lH	188	THR	N-CA-CB	6.79	121.96	110.49
1	2d	92	GLU	CA-C-N	6.79	126.81	119.89
1	2d	92	GLU	C-N-CA	6.79	126.81	119.89
1	2q	78	ALA	O-C-N	-6.79	114.93	122.12
1	2N	81	ASP	N-CA-C	6.79	118.33	111.07
1	2P	195	ASN	CA-C-N	6.79	126.58	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2P	195	ASN	C-N-CA	6.79	126.58	119.05
1	2T	85	PRO	N-CA-C	6.79	121.87	111.15
1	2W	51	ASP	CA-CB-CG	-6.79	105.81	112.60
1	36	166	ASP	CA-CB-CG	6.79	119.39	112.60
1	3y	82	ARG	NH1-CZ-NH2	-6.79	110.48	119.30
1	4f	213	GLU	CA-C-O	-6.79	113.69	120.82
1	4y	84	HIS	O-C-N	-6.79	114.31	121.30
1	4D	85	PRO	N-CD-CG	6.79	113.38	103.20
1	4G	51	ASP	O-C-N	-6.79	114.93	122.12
1	4L	176	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	4M	32	PHE	CA-CB-CG	-6.79	107.01	113.80
1	4V	139	ASN	CB-CA-C	6.79	122.05	110.79
1	4Y	67	GLN	N-CA-CB	6.79	120.09	110.12
1	5d	126	VAL	N-CA-C	6.79	120.53	111.17
1	5C	37	ILE	O-C-N	-6.79	115.25	120.07
1	6h	140	LYS	CA-C-N	6.79	129.25	120.56
1	6h	140	LYS	C-N-CA	6.79	129.25	120.56
1	6q	50	GLN	CA-C-N	6.79	129.26	120.44
1	6q	50	GLN	C-N-CA	6.79	129.26	120.44
1	6u	167	ARG	N-CA-C	6.79	118.68	111.28
1	7c	101	GLY	N-CA-C	6.79	120.87	112.73
1	7f	83	LEU	O-C-N	-6.79	113.92	122.27
1	7k	177	ALA	CA-C-N	6.79	131.00	120.75
1	7k	177	ALA	C-N-CA	6.79	131.00	120.75
1	7n	114	GLN	OE1-CD-NE2	-6.79	115.81	122.60
1	7Q	80	TRP	CB-CG-CD2	6.79	136.30	126.80
1	84	97	ARG	N-CA-C	6.79	119.81	110.24
1	85	166	ASP	CA-C-O	6.79	127.74	120.55
1	8o	137	GLY	O-C-N	-6.79	115.67	122.19
1	8y	214	MET	O-C-N	-6.79	113.24	122.33
1	8X	161	PHE	CA-C-O	-6.79	113.69	120.82
1	9b	35	GLU	O-C-N	-6.79	112.52	122.43
1	9l	82	ARG	N-CA-C	6.79	119.25	111.11
1	9n	24	VAL	O-C-N	6.79	128.82	121.83
1	9B	49	PRO	N-CA-CB	6.79	110.38	103.25
1	9N	74	ASN	CA-C-O	6.79	127.61	120.42
1	ae	34	PRO	N-CA-C	6.79	122.34	114.20
1	ae	86	VAL	O-C-N	-6.79	114.86	122.66
1	aq	63	GLN	N-CA-C	6.79	118.76	111.36
1	aN	178	SER	CA-C-N	6.79	129.37	120.28
1	aN	178	SER	C-N-CA	6.79	129.37	120.28
1	aO	84	HIS	CG-CD2-NE2	6.79	113.99	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aX	155	GLN	CB-CG-CD	6.79	124.14	112.60
1	b2	186	THR	O-C-N	-6.79	114.93	122.12
1	bp	16	SER	O-C-N	-6.79	113.83	121.43
1	bG	169	TYR	N-CA-C	6.79	118.33	111.07
1	bI	194	ALA	N-CA-C	6.79	119.28	110.53
1	bX	192	GLN	O-C-N	-6.79	114.93	122.12
1	ca	160	PRO	CA-C-N	6.79	129.37	120.28
1	ca	160	PRO	C-N-CA	6.79	129.37	120.28
1	cj	167	ARG	NE-CZ-NH2	-6.79	113.09	119.20
1	cM	16	SER	O-C-N	-6.79	113.83	121.43
1	dw	14	ALA	N-CA-C	6.79	119.58	110.35
1	ec	175	GLU	CA-C-N	6.79	130.05	120.28
1	ec	175	GLU	C-N-CA	6.79	130.05	120.28
1	ed	152	ASP	CA-CB-CG	-6.79	105.81	112.60
1	eH	135	ILE	CA-C-N	6.79	129.68	120.38
1	eH	135	ILE	C-N-CA	6.79	129.68	120.38
1	eL	178	SER	N-CA-C	6.79	118.76	110.41
1	eP	107	THR	CA-C-O	6.79	128.28	120.00
1	eZ	92	GLU	CA-C-N	6.79	128.32	119.84
1	eZ	92	GLU	C-N-CA	6.79	128.32	119.84
1	f1	118	MET	N-CA-C	6.79	119.51	111.71
1	fp	141	ILE	N-CA-C	6.79	117.54	110.62
1	fB	138	LEU	CA-C-N	6.79	129.70	120.54
1	fB	138	LEU	C-N-CA	6.79	129.70	120.54
1	b	144	MET	N-CA-C	6.79	119.25	111.11
1	k	82	ARG	NE-CZ-NH2	6.79	125.31	119.20
1	p	149	SER	N-CA-C	6.79	119.06	110.24
1	Q	120	HIS	N-CA-C	6.79	119.32	110.43
1	U	160	PRO	N-CA-CB	6.79	110.50	103.38
1	gu	11	VAL	CA-C-N	6.78	130.50	120.87
1	gu	11	VAL	C-N-CA	6.78	130.50	120.87
1	1F	106	GLY	O-C-N	6.78	130.15	122.42
1	gR	103	ASP	N-CA-C	6.78	118.67	111.28
1	h7	84	HIS	CE1-NE2-CD2	-6.78	102.22	109.00
1	hc	64	ALA	CA-C-O	6.78	127.77	119.97
1	i7	76	GLU	N-CA-C	6.78	118.75	111.36
1	ih	75	GLU	CA-C-O	6.78	127.74	120.55
1	iY	84	HIS	CA-C-O	6.78	125.83	119.59
1	j8	210	THR	OG1-CB-CG2	-6.78	95.73	109.30
1	jq	57	ASN	OD1-CG-ND2	-6.78	115.82	122.60
1	jD	72	THR	OG1-CB-CG2	-6.78	95.73	109.30
1	jP	66	MET	O-C-N	-6.78	114.93	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kf	3	VAL	O-C-N	-6.78	115.22	123.09
1	kn	10	MET	CA-C-O	6.78	128.61	120.81
1	kA	166	ASP	CA-CB-CG	-6.78	105.82	112.60
1	24	89	GLY	CA-C-N	6.78	126.75	119.76
1	24	89	GLY	C-N-CA	6.78	126.75	119.76
1	kO	72	THR	N-CA-C	6.78	122.49	111.37
1	lt	99	PRO	N-CA-C	6.78	126.44	112.47
1	lu	98	GLU	N-CA-C	6.78	119.44	110.08
1	lB	25	LYS	CA-C-N	6.78	129.11	120.56
1	lB	25	LYS	C-N-CA	6.78	129.11	120.56
1	lC	22	ALA	O-C-N	-6.78	114.93	122.12
1	2S	36	VAL	CA-C-O	-6.78	114.00	121.05
1	2V	19	THR	CA-C-N	6.78	129.26	120.44
1	2V	19	THR	C-N-CA	6.78	129.26	120.44
1	3M	11	VAL	O-C-N	-6.78	115.94	123.26
1	4B	104	ILE	N-CA-C	-6.78	103.70	110.62
1	5m	70	LYS	N-CA-C	6.78	118.33	111.07
1	5q	69	LEU	O-C-N	6.78	129.08	122.03
1	5G	12	HIS	CE1-NE2-CD2	-6.78	102.22	109.00
1	5X	40	PHE	N-CA-C	6.78	118.67	111.28
1	6b	42	ALA	O-C-N	-6.78	114.93	122.12
1	6p	67	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	7j	130	TYR	CA-C-N	6.78	129.67	120.38
1	7j	130	TYR	C-N-CA	6.78	129.67	120.38
1	7q	177	ALA	N-CA-C	6.78	120.33	110.42
1	7x	193	ASN	CA-CB-CG	-6.78	105.82	112.60
1	7z	1	PRO	N-CA-CB	6.78	110.46	103.00
1	7Q	186	THR	N-CA-C	6.78	118.75	111.36
1	8J	228	ALA	N-CA-C	6.78	120.21	110.24
1	94	55	MET	CG-SD-CE	-6.78	85.98	100.90
1	9y	170	LYS	CA-C-N	6.78	129.26	120.44
1	9y	170	LYS	C-N-CA	6.78	129.26	120.44
1	9K	54	THR	CA-C-N	6.78	129.26	120.44
1	9K	54	THR	C-N-CA	6.78	129.26	120.44
1	9K	70	LYS	CA-C-N	6.78	129.26	120.44
1	9K	70	LYS	C-N-CA	6.78	129.26	120.44
1	a4	90	PRO	CA-C-N	6.78	131.06	120.34
1	a4	90	PRO	C-N-CA	6.78	131.06	120.34
1	ai	223	GLY	O-C-N	6.78	128.55	121.77
1	an	9	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	b3	71	GLU	CA-C-N	6.78	129.26	120.44
1	b3	71	GLU	C-N-CA	6.78	129.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bw	217	ALA	CA-C-N	6.78	134.50	121.54
1	bw	217	ALA	C-N-CA	6.78	134.50	121.54
1	bG	199	LYS	N-CA-C	6.78	119.51	111.71
1	bQ	87	HIS	CA-CB-CG	6.78	120.58	113.80
1	c5	143	ARG	N-CA-C	6.78	118.67	111.28
1	eI	99	PRO	O-C-N	-6.78	115.84	123.03
1	f6	185	MET	N-CA-C	6.78	119.25	111.11
1	fg	194	ALA	N-CA-C	6.78	119.48	110.53
1	fi	69	LEU	CA-C-N	6.78	129.37	120.28
1	fi	69	LEU	C-N-CA	6.78	129.37	120.28
1	fk	214	MET	N-CA-C	6.78	119.54	111.33
1	fs	164	TYR	CA-C-N	6.78	130.05	120.42
1	fs	164	TYR	C-N-CA	6.78	130.05	120.42
1	g1	180	GLU	CA-C-N	6.78	129.18	120.70
1	g1	180	GLU	C-N-CA	6.78	129.18	120.70
1	w	80	TRP	O-C-N	6.78	129.09	122.03
1	E	198	CYS	N-CA-CB	6.78	119.91	110.07
1	O	54	THR	N-CA-CB	6.78	120.09	110.12
1	P	54	THR	N-CA-C	-6.78	103.97	111.36
1	V	12	HIS	N-CA-C	6.78	120.06	110.23
1	gL	154	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	gQ	79	GLU	CA-C-N	6.78	129.69	120.54
1	gQ	79	GLU	C-N-CA	6.78	129.69	120.54
1	gU	95	GLN	N-CA-C	6.78	119.57	110.35
1	h5	122	PRO	CA-C-N	6.78	127.19	119.93
1	h5	122	PRO	C-N-CA	6.78	127.19	119.93
1	hz	50	GLN	O-C-N	-6.78	114.93	122.12
1	i0	72	THR	N-CA-C	6.78	118.67	111.28
1	i5	84	HIS	CA-C-O	-6.78	114.09	119.99
1	ii	112	GLN	CG-CD-NE2	6.78	126.57	116.40
1	kT	103	ASP	N-CA-C	6.78	118.33	111.07
1	lC	175	GLU	O-C-N	-6.78	114.35	123.10
1	2j	72	THR	OG1-CB-CG2	-6.78	95.74	109.30
1	2u	8	GLY	O-C-N	6.78	129.72	122.60
1	2S	110	THR	CA-C-N	6.78	129.70	120.54
1	2S	110	THR	C-N-CA	6.78	129.70	120.54
1	36	171	THR	CA-C-N	6.78	129.92	120.29
1	36	171	THR	C-N-CA	6.78	129.92	120.29
1	3c	5	ASN	CA-CB-CG	-6.78	105.82	112.60
1	3F	153	ILE	N-CA-C	6.78	118.35	108.58
1	71	81	ASP	CA-CB-CG	-6.78	105.82	112.60
1	Z	18	ARG	CA-C-N	6.78	129.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Z	18	ARG	C-N-CA	6.78	129.26	120.44
1	aq	82	ARG	NE-CZ-NH2	-6.78	113.10	119.20
1	b1	43	LEU	N-CA-C	6.78	118.75	111.36
1	c9	154	ARG	O-C-N	-6.78	116.75	123.46
1	1h	107	THR	N-CA-C	6.78	118.75	111.36
1	e1	197	ASP	O-C-N	-6.78	113.10	122.46
1	et	7	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	g7	68	MET	N-CA-C	6.78	118.67	111.28
1	9	84	HIS	CA-CB-CG	6.78	120.58	113.80
1	gO	166	ASP	CA-C-O	6.78	127.74	120.55
1	gS	48	THR	CA-C-N	6.78	126.74	119.28
1	gS	48	THR	C-N-CA	6.78	126.74	119.28
1	gX	222	GLY	CA-C-N	6.78	132.52	121.87
1	gX	222	GLY	C-N-CA	6.78	132.52	121.87
1	hE	84	HIS	CB-CG-ND1	6.78	132.87	122.70
1	ic	92	GLU	O-C-N	-6.78	114.07	121.53
1	ic	227	LYS	O-C-N	-6.78	113.48	122.57
1	ik	162	ARG	O-C-N	6.78	130.15	122.22
1	iE	1	PRO	CA-N-CD	-6.78	102.51	112.00
1	j4	18	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	jj	12	HIS	ND1-CE1-NE2	6.78	115.18	108.40
1	jy	200	THR	CA-CB-CG2	6.78	122.03	110.50
1	jP	37	ILE	O-C-N	-6.78	116.08	120.42
1	k6	53	ASN	N-CA-C	6.78	118.75	111.36
1	23	168	PHE	CA-CB-CG	6.78	120.58	113.80
1	kJ	7	GLN	CA-C-N	6.78	129.18	120.64
1	kJ	7	GLN	C-N-CA	6.78	129.18	120.64
1	kM	130	TYR	CA-C-O	6.78	127.74	120.55
1	l2	143	ARG	NE-CZ-NH2	6.78	125.30	119.20
1	lQ	99	PRO	N-CA-C	6.78	121.86	111.15
1	2v	91	ILE	O-C-N	-6.78	115.56	122.54
1	2y	54	THR	CA-C-N	6.78	129.25	120.44
1	2y	54	THR	C-N-CA	6.78	129.25	120.44
1	2G	66	MET	O-C-N	6.78	129.31	122.12
1	2P	74	ASN	CA-C-N	6.78	129.37	120.28
1	2P	74	ASN	C-N-CA	6.78	129.37	120.28
1	2S	40	PHE	N-CA-C	6.78	118.33	111.07
1	3x	196	PRO	N-CA-C	6.78	126.44	112.47
1	3I	120	HIS	CE1-NE2-CD2	-6.78	102.22	109.00
1	3N	47	ALA	N-CA-C	6.78	120.20	110.10
1	3S	210	THR	N-CA-CB	6.78	120.06	110.36
1	47	230	VAL	CA-C-O	-6.78	115.32	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	109	SER	CA-C-O	6.78	128.02	120.70
1	5D	12	HIS	CE1-NE2-CD2	-6.78	102.22	109.00
1	5X	135	ILE	O-C-N	-6.78	114.14	121.80
1	63	155	GLN	O-C-N	-6.78	114.68	123.02
1	7a	171	THR	CA-C-N	6.78	129.37	120.28
1	7a	171	THR	C-N-CA	6.78	129.37	120.28
1	7a	219	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	7c	16	SER	CA-C-N	6.78	126.41	119.56
1	7c	16	SER	C-N-CA	6.78	126.41	119.56
1	7l	67	GLN	CA-C-N	6.78	129.37	120.28
1	7l	67	GLN	C-N-CA	6.78	129.37	120.28
1	7n	187	GLU	N-CA-C	6.78	118.75	111.36
1	7D	221	VAL	CA-CB-CG2	6.78	121.93	110.40
1	8k	221	VAL	CA-C-O	6.78	129.02	120.75
1	8C	128	GLU	CA-C-O	-6.78	113.23	120.42
1	8T	19	THR	N-CA-C	6.78	119.25	111.11
1	9f	102	SER	N-CA-CB	6.78	120.09	110.12
1	9j	47	ALA	O-C-N	-6.78	114.86	122.86
1	9W	53	ASN	CA-CB-CG	-6.78	105.82	112.60
1	9Z	128	GLU	N-CA-C	6.78	118.67	111.28
1	a9	86	VAL	N-CA-C	6.78	117.21	108.12
1	10	25	LYS	O-C-N	-6.78	114.29	122.22
1	ar	114	GLN	CA-C-N	6.78	129.10	120.56
1	ar	114	GLN	C-N-CA	6.78	129.10	120.56
1	aI	76	GLU	CA-C-N	6.78	129.37	120.28
1	aI	76	GLU	C-N-CA	6.78	129.37	120.28
1	aW	77	ALA	CA-C-N	6.78	130.62	120.31
1	aW	77	ALA	C-N-CA	6.78	130.62	120.31
1	15	97	ARG	NH1-CZ-NH2	-6.78	110.48	119.30
1	b4	77	ALA	N-CA-C	6.78	118.33	111.07
1	16	106	GLY	CA-C-N	6.78	129.66	120.44
1	16	106	GLY	C-N-CA	6.78	129.66	120.44
1	bu	179	GLN	CB-CA-C	-6.78	99.96	110.81
1	bH	185	MET	CG-SD-CE	-6.78	85.98	100.90
1	bL	46	GLY	O-C-N	-6.78	114.69	122.42
1	c0	165	VAL	CA-C-N	6.78	129.37	120.28
1	c0	165	VAL	C-N-CA	6.78	129.37	120.28
1	c3	50	GLN	CA-C-N	6.78	129.25	120.44
1	c3	50	GLN	C-N-CA	6.78	129.25	120.44
1	c9	159	GLU	N-CA-C	6.78	119.47	109.50
1	cn	159	GLU	CA-C-N	6.78	128.32	119.84
1	cn	159	GLU	C-N-CA	6.78	128.32	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	139	ASN	N-CA-C	6.78	119.53	111.33
1	cx	152	ASP	O-C-N	-6.78	112.78	122.41
1	cS	42	ALA	N-CA-C	6.78	118.67	111.28
1	d6	26	VAL	N-CA-C	6.78	116.93	110.42
1	dd	125	PRO	N-CA-CB	-6.78	97.19	102.28
1	do	173	ARG	N-CA-C	6.78	122.56	111.37
1	1m	107	THR	N-CA-C	6.78	118.67	111.28
1	eh	162	ARG	N-CA-C	6.78	118.67	111.28
1	f9	181	VAL	O-C-N	-6.78	114.85	121.83
1	fv	220	GLY	CA-C-N	6.78	129.75	120.46
1	fv	220	GLY	C-N-CA	6.78	129.75	120.46
1	fC	98	GLU	N-CA-C	6.78	119.47	109.50
1	fF	44	SER	O-C-N	-6.78	114.01	122.35
1	fZ	67	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	d	44	SER	N-CA-C	-6.78	102.62	111.71
1	l	183	ASN	CA-C-N	6.78	129.37	120.28
1	l	183	ASN	C-N-CA	6.78	129.37	120.28
1	q	25	LYS	N-CA-C	6.78	119.25	111.11
1	3	115	ILE	N-CA-CB	6.78	118.48	110.55
1	E	128	GLU	N-CA-C	6.78	118.75	111.36
1	H	24	VAL	O-C-N	-6.78	115.29	121.87
1	gr	32	PHE	N-CA-C	6.78	119.56	109.59
1	gS	152	ASP	N-CA-C	-6.78	104.22	113.30
1	gY	127	GLY	O-C-N	-6.78	115.61	122.19
1	hp	181	VAL	CA-C-N	6.78	129.36	120.28
1	hp	181	VAL	C-N-CA	6.78	129.36	120.28
1	i2	141	ILE	N-CA-CB	6.78	118.48	110.55
1	i5	174	ALA	O-C-N	-6.78	114.77	122.09
1	il	167	ARG	N-CA-C	6.78	118.32	111.07
1	ip	171	THR	O-C-N	-6.78	114.29	122.22
1	jm	25	LYS	CA-C-N	6.78	129.10	120.56
1	jm	25	LYS	C-N-CA	6.78	129.10	120.56
1	jC	37	ILE	CA-C-O	-6.78	114.15	118.69
1	kF	202	LEU	CA-C-N	6.78	129.67	120.38
1	kF	202	LEU	C-N-CA	6.78	129.67	120.38
1	kY	143	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	ls	58	THR	N-CA-CB	6.78	121.45	110.40
1	2a	133	TRP	CB-CG-CD2	-6.78	117.31	126.80
1	3f	105	ALA	N-CA-C	6.78	119.68	111.82
1	3A	69	LEU	CA-C-O	6.78	127.74	120.55
1	3A	173	ARG	NE-CZ-NH2	-6.78	113.10	119.20
1	4q	146	SER	N-CA-C	6.78	122.79	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	184	TRP	N-CA-C	6.78	118.67	111.28
1	5i	51	ASP	CA-CB-CG	-6.78	105.82	112.60
1	5n	219	GLN	N-CA-CB	6.78	120.13	110.44
1	7g	37	ILE	CA-C-N	6.78	126.58	119.05
1	7g	37	ILE	C-N-CA	6.78	126.58	119.05
1	83	208	ALA	CA-C-O	6.78	126.51	119.05
1	8j	160	PRO	N-CD-CG	6.78	113.37	103.20
1	at	134	ILE	N-CA-CB	6.78	118.48	110.55
1	cg	142	VAL	CA-C-O	6.78	128.00	120.95
1	cE	42	ALA	O-C-N	-6.78	114.42	122.15
1	cH	172	LEU	CA-C-N	6.78	129.25	120.44
1	cH	172	LEU	C-N-CA	6.78	129.25	120.44
1	cI	183	ASN	CA-CB-CG	-6.78	105.82	112.60
1	dC	98	GLU	N-CA-C	6.78	118.61	110.07
1	dU	204	ALA	CA-C-N	6.78	129.36	120.28
1	dU	204	ALA	C-N-CA	6.78	129.36	120.28
1	eo	53	ASN	CA-C-N	6.78	129.36	120.28
1	eo	53	ASN	C-N-CA	6.78	129.36	120.28
1	1s	12	HIS	CB-CG-CD2	-6.78	122.39	131.20
1	eM	80	TRP	N-CA-C	6.78	119.29	111.02
1	fC	56	LEU	O-C-N	-6.78	114.42	122.15
1	M	168	PHE	CA-CB-CG	-6.78	107.02	113.80
1	gO	62	HIS	ND1-CG-CD2	6.78	112.88	106.10
1	hb	195	ASN	OD1-CG-ND2	-6.78	115.82	122.60
1	hk	144	MET	N-CA-C	6.78	118.32	111.07
1	ho	176	GLN	CA-C-N	6.78	134.49	121.54
1	ho	176	GLN	C-N-CA	6.78	134.49	121.54
1	i6	190	LEU	CA-C-N	6.78	129.24	120.56
1	i6	190	LEU	C-N-CA	6.78	129.24	120.56
1	i9	141	ILE	O-C-N	-6.78	115.27	121.91
1	ia	131	LYS	CA-C-N	6.78	129.36	120.28
1	ia	131	LYS	C-N-CA	6.78	129.36	120.28
1	io	17	PRO	N-CA-CB	-6.78	97.04	103.41
1	iG	168	PHE	CA-CB-CG	-6.78	107.02	113.80
1	iN	54	THR	N-CA-C	6.78	118.32	111.07
1	iN	139	ASN	CA-C-N	6.78	129.36	120.28
1	iN	139	ASN	C-N-CA	6.78	129.36	120.28
1	j0	81	ASP	N-CA-C	6.78	118.67	111.28
1	jn	179	GLN	N-CA-C	6.78	118.67	111.28
1	js	50	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	jB	213	GLU	N-CA-C	6.78	118.67	111.28
1	jJ	18	ARG	NE-CZ-NH1	-6.78	114.72	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jQ	179	GLN	CB-CG-CD	-6.78	101.08	112.60
1	jT	62	HIS	N-CA-CB	6.78	122.36	112.13
1	jX	194	ALA	N-CA-C	6.78	119.57	110.35
1	kv	53	ASN	N-CA-C	6.78	119.68	111.82
1	kP	125	PRO	CA-C-N	6.78	129.74	120.46
1	kP	125	PRO	C-N-CA	6.78	129.74	120.46
1	kY	113	GLU	CA-C-N	6.78	129.36	120.28
1	kY	113	GLU	C-N-CA	6.78	129.36	120.28
1	l4	126	VAL	O-C-N	-6.78	115.27	121.91
1	28	115	ILE	O-C-N	-6.78	114.85	121.83
1	lw	214	MET	N-CA-C	6.78	121.30	112.89
1	2s	41	SER	CA-C-N	6.78	129.36	120.28
1	2s	41	SER	C-N-CA	6.78	129.36	120.28
1	2u	184	TRP	CB-CG-CD1	6.78	137.06	126.90
1	2x	5	ASN	CA-CB-CG	-6.78	105.82	112.60
1	2S	13	GLN	CA-C-N	6.78	132.13	121.56
1	2S	13	GLN	C-N-CA	6.78	132.13	121.56
1	3i	182	LYS	O-C-N	-6.78	114.42	122.15
1	3r	177	ALA	N-CA-C	6.78	119.31	110.43
1	3C	173	ARG	CA-C-O	6.78	127.61	120.42
1	3M	121	ASN	CA-C-O	-6.78	114.30	119.59
1	4b	226	HIS	ND1-CE1-NE2	6.78	115.18	108.40
1	4V	102	SER	O-C-N	-6.78	114.94	122.12
1	5c	218	CYS	CA-C-N	6.78	129.66	120.38
1	5c	218	CYS	C-N-CA	6.78	129.66	120.38
1	5q	92	GLU	CA-C-O	-6.78	113.03	120.69
1	5F	86	VAL	N-CA-CB	6.78	117.92	110.53
1	5M	142	VAL	CA-C-O	6.78	128.10	121.05
1	5W	117	TRP	CA-C-N	6.78	129.36	120.28
1	5W	117	TRP	C-N-CA	6.78	129.36	120.28
1	6p	124	ILE	CA-C-O	-6.78	115.15	119.15
1	6p	195	ASN	CA-C-O	-6.78	113.31	120.70
1	6C	183	ASN	O-C-N	6.78	129.05	122.07
1	6H	89	GLY	O-C-N	-6.78	114.99	121.77
1	77	138	LEU	N-CA-C	6.78	119.53	111.33
1	78	14	ALA	O-C-N	-6.78	114.75	122.68
1	7R	13	GLN	CA-C-N	6.78	130.49	120.87
1	7R	13	GLN	C-N-CA	6.78	130.49	120.87
1	8d	5	ASN	CA-CB-CG	6.78	119.38	112.60
1	8H	192	GLN	N-CA-C	6.78	118.67	111.28
1	9b	198	CYS	N-CA-C	6.78	118.67	111.28
1	9x	120	HIS	ND1-CE1-NE2	6.78	115.18	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ae	169	TYR	N-CA-C	6.78	118.67	111.28
1	aK	166	ASP	CA-CB-CG	6.78	119.38	112.60
1	bj	196	PRO	CA-C-N	6.78	129.36	120.28
1	bj	196	PRO	C-N-CA	6.78	129.36	120.28
1	bl	73	ILE	CB-CA-C	6.78	120.64	111.97
1	bo	41	SER	CA-C-N	6.78	129.91	120.29
1	bo	41	SER	C-N-CA	6.78	129.91	120.29
1	bD	201	ILE	O-C-N	-6.78	114.85	121.90
1	bG	218	CYS	CA-C-N	6.78	132.12	122.09
1	bG	218	CYS	C-N-CA	6.78	132.12	122.09
1	bN	173	ARG	NE-CZ-NH2	-6.78	113.10	119.20
1	1b	126	VAL	N-CA-C	6.78	120.52	111.17
1	c5	3	VAL	CA-C-O	-6.78	112.99	120.72
1	cj	33	SER	CA-C-O	-6.78	114.27	120.50
1	1f	162	ARG	NH1-CZ-NH2	-6.78	110.49	119.30
1	cY	222	GLY	O-C-N	-6.78	114.69	122.96
1	dh	13	GLN	CA-C-N	6.78	130.99	120.75
1	dh	13	GLN	C-N-CA	6.78	130.99	120.75
1	do	94	GLY	N-CA-C	-6.78	105.70	114.85
1	dr	172	LEU	O-C-N	-6.78	115.09	122.07
1	e6	115	ILE	N-CA-C	6.78	118.35	110.62
1	eE	67	GLN	CA-C-N	6.78	129.36	120.28
1	eE	67	GLN	C-N-CA	6.78	129.36	120.28
1	1v	151	LEU	N-CA-C	-6.78	104.83	113.23
1	fn	33	SER	CA-C-O	-6.78	112.34	120.41
1	fq	181	VAL	N-CA-CB	-6.78	102.99	110.51
1	fX	8	GLY	CA-C-N	6.78	134.49	121.54
1	fX	8	GLY	C-N-CA	6.78	134.49	121.54
1	t	221	VAL	CA-C-O	6.78	125.08	118.98
1	w	2	ILE	N-CA-C	6.78	118.34	108.58
1	C	134	ILE	CA-C-N	6.78	130.04	120.42
1	C	134	ILE	C-N-CA	6.78	130.04	120.42
1	gk	159	GLU	O-C-N	-6.78	115.27	121.30
1	gL	76	GLU	O-C-N	-6.78	114.94	122.12
1	gU	229	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	h7	33	SER	O-C-N	-6.78	113.53	121.32
1	hD	24	VAL	O-C-N	-6.78	115.30	121.87
1	hE	121	ASN	OD1-CG-ND2	-6.78	115.82	122.60
1	hJ	50	GLN	O-C-N	-6.78	114.94	122.12
1	hK	123	PRO	CA-C-O	-6.78	113.70	121.36
1	1M	165	VAL	N-CA-C	6.78	116.92	110.42
1	ig	124	ILE	O-C-N	-6.78	116.74	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iL	48	THR	CA-C-N	6.78	127.33	119.47
1	iL	48	THR	C-N-CA	6.78	127.33	119.47
1	iU	46	GLY	CA-C-O	6.78	127.92	119.25
1	iW	125	PRO	N-CA-CB	-6.78	96.14	103.25
1	iX	201	ILE	CA-C-N	6.78	130.61	120.31
1	iX	201	ILE	C-N-CA	6.78	130.61	120.31
1	jp	28	GLU	N-CA-C	6.78	118.66	111.28
1	jL	109	SER	N-CA-CB	6.78	121.70	110.52
1	k6	10	MET	O-C-N	6.78	125.84	120.83
1	kK	194	ALA	CA-C-N	6.78	129.81	120.39
1	kK	194	ALA	C-N-CA	6.78	129.81	120.39
1	kM	11	VAL	O-C-N	-6.78	115.94	123.26
1	l3	43	LEU	CA-C-O	6.78	127.76	119.97
1	l8	162	ARG	N-CA-C	6.78	118.67	111.28
1	li	173	ARG	NE-CZ-NH2	6.78	125.30	119.20
1	lm	162	ARG	NE-CZ-NH1	6.78	128.28	121.50
1	ls	66	MET	CG-SD-CE	-6.78	86.00	100.90
1	lK	40	PHE	N-CA-C	6.78	118.67	111.28
1	lM	91	ILE	O-C-N	-6.78	115.29	122.67
1	2c	55	MET	O-C-N	-6.78	114.43	122.15
1	2M	62	HIS	ND1-CG-CD2	6.78	112.88	106.10
1	3O	99	PRO	N-CA-C	6.78	121.86	111.15
1	3S	222	GLY	N-CA-C	6.78	124.62	112.22
1	43	87	HIS	CA-C-O	-6.78	113.23	121.36
1	4e	162	ARG	O-C-N	-6.78	114.94	122.12
1	4h	87	HIS	CA-CB-CG	-6.78	107.03	113.80
1	4B	121	ASN	CA-C-O	-6.78	113.05	119.55
1	4Q	50	GLN	CA-C-O	6.78	127.73	120.55
1	5d	55	MET	CA-C-N	6.78	129.25	120.44
1	5d	55	MET	C-N-CA	6.78	129.25	120.44
1	5d	114	GLN	N-CA-C	6.78	118.32	111.07
1	5t	24	VAL	N-CA-C	6.78	116.92	110.42
1	5L	209	ALA	CA-C-O	-6.78	113.39	121.66
1	5T	112	GLN	CA-C-N	6.78	129.91	120.29
1	5T	112	GLN	C-N-CA	6.78	129.91	120.29
1	5V	54	THR	CA-C-N	6.78	129.36	120.28
1	5V	54	THR	C-N-CA	6.78	129.36	120.28
1	69	132	ARG	NE-CZ-NH2	-6.78	113.10	119.20
1	6R	194	ALA	O-C-N	-6.78	114.82	122.75
1	6T	92	GLU	O-C-N	-6.78	113.53	121.32
1	7x	149	SER	CA-C-N	6.78	130.08	120.53
1	7x	149	SER	C-N-CA	6.78	130.08	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7B	203	LYS	O-C-N	-6.78	113.94	122.27
1	7P	170	LYS	CA-C-N	6.78	129.25	120.44
1	7P	170	LYS	C-N-CA	6.78	129.25	120.44
1	83	40	PHE	CA-CB-CG	6.78	120.58	113.80
1	9G	5	ASN	O-C-N	-6.78	113.12	122.20
1	10	39	MET	CA-C-N	6.78	130.21	120.79
1	10	39	MET	C-N-CA	6.78	130.21	120.79
1	11	134	ILE	N-CA-C	6.78	117.53	110.62
1	aJ	216	THR	CA-C-O	6.78	127.84	119.78
1	aQ	87	HIS	CA-CB-CG	-6.78	107.02	113.80
1	aU	50	GLN	OE1-CD-NE2	-6.78	115.83	122.60
1	bi	37	ILE	N-CA-CB	6.78	114.77	110.50
1	18	92	GLU	CA-C-N	6.78	127.18	119.93
1	18	92	GLU	C-N-CA	6.78	127.18	119.93
1	bC	179	GLN	N-CA-C	6.78	119.53	111.33
1	bH	200	THR	N-CA-C	6.78	119.24	111.11
1	1c	169	TYR	N-CA-C	6.78	118.67	111.28
1	co	56	LEU	N-CA-CB	6.78	120.08	110.12
1	cX	78	ALA	CA-C-N	6.78	129.69	120.54
1	cX	78	ALA	C-N-CA	6.78	129.69	120.54
1	d1	124	ILE	CA-C-O	-6.78	114.79	119.19
1	d7	140	LYS	CA-C-N	6.78	130.04	120.42
1	d7	140	LYS	C-N-CA	6.78	130.04	120.42
1	dl	174	ALA	O-C-N	-6.78	115.09	122.07
1	dC	62	HIS	O-C-N	-6.78	114.85	122.91
1	1m	98	GLU	CA-C-N	6.78	126.74	119.76
1	1m	98	GLU	C-N-CA	6.78	126.74	119.76
1	dL	4	GLN	OE1-CD-NE2	-6.78	115.82	122.60
1	dP	174	ALA	CA-C-N	6.78	129.36	120.28
1	dP	174	ALA	C-N-CA	6.78	129.36	120.28
1	e0	35	GLU	N-CA-C	6.78	121.00	112.87
1	e8	93	PRO	CA-C-O	-6.78	113.70	121.56
1	eo	124	ILE	O-C-N	-6.78	113.38	121.10
1	1r	176	GLN	N-CA-C	6.78	118.91	109.15
1	eC	161	PHE	CA-C-N	6.78	129.25	120.44
1	eC	161	PHE	C-N-CA	6.78	129.25	120.44
1	eY	149	SER	O-C-N	-6.78	114.42	123.23
1	fi	87	HIS	CE1-NE2-CD2	-6.78	102.22	109.00
1	fo	117	TRP	CA-C-N	6.78	129.36	120.28
1	fo	117	TRP	C-N-CA	6.78	129.36	120.28
1	fp	213	GLU	N-CA-C	6.78	119.24	111.11
1	g0	87	HIS	CA-CB-CG	6.78	120.58	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	13	GLN	CA-C-O	-6.78	113.51	121.44
1	F	172	LEU	O-C-N	-6.78	114.94	122.12
1	gs	173	ARG	NE-CZ-NH1	6.77	128.27	121.50
1	hr	167	ARG	CA-C-N	6.77	129.66	120.38
1	hr	167	ARG	C-N-CA	6.77	129.66	120.38
1	hI	5	ASN	N-CA-C	6.77	118.66	111.28
1	hP	116	GLY	O-C-N	-6.77	115.62	122.19
1	hU	16	SER	CA-C-O	6.77	127.14	120.23
1	hU	123	PRO	N-CA-CB	-6.77	96.27	103.38
1	1X	38	PRO	N-CA-CB	6.77	110.36	103.25
1	jG	221	VAL	CA-CB-CG1	6.77	121.92	110.40
1	1Y	194	ALA	O-C-N	-6.77	114.69	122.68
1	2l	154	ARG	NH1-CZ-NH2	-6.77	110.49	119.30
1	2I	161	PHE	N-CA-C	6.77	118.66	111.28
1	3y	18	ARG	NE-CZ-NH2	-6.77	113.10	119.20
1	3F	197	ASP	CA-C-N	6.77	129.91	120.29
1	3F	197	ASP	C-N-CA	6.77	129.91	120.29
1	47	139	ASN	OD1-CG-ND2	-6.77	115.83	122.60
1	4j	120	HIS	CE1-NE2-CD2	-6.77	102.23	109.00
1	4P	12	HIS	CE1-NE2-CD2	-6.77	102.23	109.00
1	5R	167	ARG	CA-C-N	6.77	129.69	120.54
1	5R	167	ARG	C-N-CA	6.77	129.69	120.54
1	6T	134	ILE	O-C-N	-6.77	115.30	121.87
1	7F	184	TRP	CA-C-N	6.77	129.25	120.44
1	7F	184	TRP	C-N-CA	6.77	129.25	120.44
1	8d	58	THR	N-CA-CB	6.77	121.64	110.39
1	8v	179	GLN	OE1-CD-NE2	-6.77	115.83	122.60
1	8y	112	GLN	N-CA-C	6.77	119.50	111.71
1	9z	53	ASN	N-CA-C	-6.77	103.98	111.36
1	9B	211	LEU	N-CA-C	6.77	119.53	111.33
1	ae	188	THR	O-C-N	-6.77	115.09	122.07
1	bb	128	GLU	O-C-N	6.77	129.30	122.12
1	ch	180	GLU	CA-C-O	6.77	127.60	120.42
1	cZ	230	VAL	CB-CA-C	6.77	119.96	111.15
1	e4	66	MET	N-CA-CB	6.77	120.19	110.16
1	fc	185	MET	CA-C-N	6.77	129.59	120.65
1	fc	185	MET	C-N-CA	6.77	129.59	120.65
1	fO	63	GLN	N-CA-C	6.77	118.74	111.36
1	F	69	LEU	CA-C-N	6.77	129.36	120.28
1	F	69	LEU	C-N-CA	6.77	129.36	120.28
1	gi	79	GLU	N-CA-C	6.77	119.24	111.11
1	gk	226	HIS	CE1-NE2-CD2	-6.77	102.23	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ih	143	ARG	CA-C-O	6.77	127.60	120.42
1	1P	48	THR	CA-C-O	-6.77	113.30	120.88
1	iL	19	THR	CA-C-N	6.77	129.65	120.44
1	iL	19	THR	C-N-CA	6.77	129.65	120.44
1	iS	211	LEU	CA-C-N	6.77	129.25	120.44
1	iS	211	LEU	C-N-CA	6.77	129.25	120.44
1	jw	163	ASP	CB-CA-C	6.77	121.51	110.88
1	jC	59	VAL	CA-C-N	6.77	132.64	120.79
1	jC	59	VAL	C-N-CA	6.77	132.64	120.79
1	jW	89	GLY	O-C-N	-6.77	116.32	122.42
1	jW	118	MET	CA-C-N	6.77	129.35	120.28
1	jW	118	MET	C-N-CA	6.77	129.35	120.28
1	kv	121	ASN	CA-C-O	6.77	124.87	119.59
1	kD	154	ARG	NE-CZ-NH1	6.77	128.27	121.50
1	24	216	THR	N-CA-C	-6.77	104.14	112.88
1	l0	151	LEU	O-C-N	-6.77	113.25	122.33
1	l3	100	ARG	NE-CZ-NH2	6.77	125.30	119.20
1	2a	42	ALA	CA-C-O	6.77	127.73	120.55
1	2N	95	GLN	OE1-CD-NE2	-6.77	115.83	122.60
1	3t	70	LYS	N-CA-C	6.77	119.53	111.33
1	3V	161	PHE	N-CA-C	6.77	119.52	111.33
1	4n	68	MET	CG-SD-CE	-6.77	86.00	100.90
1	4E	156	GLY	CA-C-N	6.77	126.01	118.97
1	4E	156	GLY	C-N-CA	6.77	126.01	118.97
1	4Q	200	THR	O-C-N	-6.77	114.30	122.22
1	59	2	ILE	N-CA-CB	6.77	120.46	111.25
1	5F	22	ALA	N-CA-C	6.77	118.66	111.28
1	5G	70	LYS	CA-C-O	-6.77	113.31	120.63
1	5G	132	ARG	NE-CZ-NH2	-6.77	113.10	119.20
1	5H	142	VAL	CA-C-O	-6.77	113.91	120.95
1	5R	17	PRO	CA-C-N	6.77	132.19	120.68
1	5R	17	PRO	C-N-CA	6.77	132.19	120.68
1	6g	105	ALA	CA-C-N	6.77	132.99	120.87
1	6g	105	ALA	C-N-CA	6.77	132.99	120.87
1	6I	220	GLY	O-C-N	-6.77	114.54	122.60
1	6M	165	VAL	N-CA-C	6.77	118.34	110.62
1	78	96	MET	O-C-N	-6.77	114.63	122.89
1	79	219	GLN	CA-C-N	6.77	127.32	119.94
1	79	219	GLN	C-N-CA	6.77	127.32	119.94
1	7e	193	ASN	OD1-CG-ND2	-6.77	115.83	122.60
1	7p	79	GLU	CA-C-N	6.77	129.91	120.29
1	7p	79	GLU	C-N-CA	6.77	129.91	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7H	22	ALA	O-C-N	-6.77	114.43	122.15
1	7Z	226	HIS	CB-CG-ND1	6.77	132.86	122.70
1	83	166	ASP	CA-CB-CG	6.77	119.37	112.60
1	88	187	GLU	CA-C-N	6.77	132.60	122.17
1	88	187	GLU	C-N-CA	6.77	132.60	122.17
1	8f	201	ILE	CA-C-N	6.77	129.65	120.44
1	8f	201	ILE	C-N-CA	6.77	129.65	120.44
1	8f	229	ARG	NE-CZ-NH1	-6.77	114.73	121.50
1	8i	229	ARG	CA-C-O	6.77	128.87	120.54
1	8t	229	ARG	N-CA-C	6.77	120.05	110.23
1	8w	213	GLU	CA-C-N	6.77	130.27	120.38
1	8w	213	GLU	C-N-CA	6.77	130.27	120.38
1	8G	6	LEU	CA-C-N	6.77	132.64	122.68
1	8G	6	LEU	C-N-CA	6.77	132.64	122.68
1	8N	96	MET	O-C-N	-6.77	115.02	123.01
1	9a	171	THR	CA-C-N	6.77	129.36	120.28
1	9a	171	THR	C-N-CA	6.77	129.36	120.28
1	9p	91	ILE	CA-C-N	6.77	128.56	120.09
1	9p	91	ILE	C-N-CA	6.77	128.56	120.09
1	9I	224	PRO	CA-C-N	6.77	127.61	120.03
1	9I	224	PRO	C-N-CA	6.77	127.61	120.03
1	9N	205	LEU	O-C-N	-6.77	115.09	122.07
1	9U	224	PRO	N-CA-C	6.77	122.30	111.26
1	a2	43	LEU	N-CA-C	6.77	118.32	111.07
1	ax	212	GLU	CA-C-O	6.77	127.76	119.97
1	bn	4	GLN	N-CA-C	6.77	118.35	110.97
1	bw	42	ALA	N-CA-C	6.77	119.50	111.71
1	bQ	84	HIS	O-C-N	-6.77	115.36	121.39
1	cf	185	MET	N-CA-C	6.77	118.32	111.07
1	1g	33	SER	CA-C-O	-6.77	113.83	120.26
1	d8	117	TRP	CA-C-N	6.77	129.91	120.29
1	d8	117	TRP	C-N-CA	6.77	129.91	120.29
1	df	112	GLN	O-C-N	-6.77	114.94	122.12
1	dj	14	ALA	CA-C-N	6.77	129.64	120.63
1	dj	14	ALA	C-N-CA	6.77	129.64	120.63
1	1k	40	PHE	CA-CB-CG	-6.77	107.03	113.80
1	1l	138	LEU	CA-C-O	6.77	127.73	120.55
1	dH	104	ILE	CA-C-O	6.77	127.56	120.25
1	dK	165	VAL	N-CA-C	6.77	117.53	110.62
1	dY	170	LYS	O-C-N	-6.77	114.43	122.15
1	ei	68	MET	N-CA-C	6.77	118.35	110.97
1	eA	89	GLY	CA-C-N	6.77	128.31	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eA	89	GLY	C-N-CA	6.77	128.31	119.84
1	eF	210	THR	CA-CB-OG1	6.77	119.76	109.60
1	eV	152	ASP	CB-CA-C	-6.77	97.67	110.67
1	fj	133	TRP	CA-C-O	6.77	127.93	120.82
1	fr	224	PRO	CA-C-O	-6.77	113.84	121.43
1	fD	130	TYR	O-C-N	-6.77	114.94	122.12
1	fQ	186	THR	CA-CB-OG1	6.77	119.76	109.60
1	fS	37	ILE	CA-C-O	6.77	123.23	118.69
1	fU	41	SER	N-CA-C	6.77	118.66	111.28
1	g4	128	GLU	CA-C-O	6.77	127.93	120.82
1	g7	154	ARG	NE-CZ-NH2	-6.77	113.10	119.20
1	1	148	THR	CA-C-N	6.77	131.19	121.50
1	1	148	THR	C-N-CA	6.77	131.19	121.50
1	ga	119	THR	O-C-N	-6.77	113.88	122.34
1	ge	87	HIS	CB-CG-CD2	-6.77	122.40	131.20
1	gp	172	LEU	CA-C-N	6.77	129.91	120.29
1	gp	172	LEU	C-N-CA	6.77	129.91	120.29
1	hs	116	GLY	O-C-N	-6.77	114.55	122.34
1	iN	156	GLY	O-C-N	-6.77	115.00	121.77
1	iZ	164	TYR	CA-C-N	6.77	129.74	120.46
1	iZ	164	TYR	C-N-CA	6.77	129.74	120.46
1	lF	53	ASN	CA-CB-CG	-6.77	105.83	112.60
1	2i	104	ILE	O-C-N	-6.77	115.30	121.87
1	2u	97	ARG	NH1-CZ-NH2	-6.77	110.50	119.30
1	3R	201	ILE	N-CA-C	6.77	116.92	110.42
1	41	142	VAL	N-CA-C	6.77	117.53	110.62
1	4t	224	PRO	N-CA-C	-6.77	106.86	114.92
1	4L	98	GLU	N-CA-C	6.77	118.18	109.65
1	61	226	HIS	CA-C-O	6.77	126.19	118.47
1	6a	62	HIS	N-CA-C	6.77	120.84	112.58
1	78	26	VAL	CA-C-N	6.77	129.09	120.56
1	78	26	VAL	C-N-CA	6.77	129.09	120.56
1	7x	217	ALA	N-CA-C	6.77	118.31	111.07
1	9R	224	PRO	N-CA-C	-6.77	106.86	114.92
1	au	192	GLN	CA-C-O	6.77	127.67	120.70
1	17	48	THR	CA-C-O	-6.77	114.23	121.27
1	bM	161	PHE	CA-CB-CG	-6.77	107.03	113.80
1	c3	146	SER	N-CA-CB	6.77	122.42	110.37
1	cY	178	SER	CA-C-N	6.77	129.66	120.38
1	cY	178	SER	C-N-CA	6.77	129.66	120.38
1	dh	123	PRO	N-CA-C	6.77	121.88	111.11
1	eD	145	TYR	O-C-N	-6.77	114.76	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	214	MET	N-CA-C	6.77	118.31	111.07
1	ge	7	GLN	N-CA-C	6.77	120.05	110.23
1	gt	132	ARG	CA-C-O	6.77	127.73	120.55
1	gz	203	LYS	N-CA-C	6.77	118.31	111.07
1	1O	65	ALA	CA-C-O	6.77	127.72	120.55
1	ij	73	ILE	CB-CA-C	-6.77	103.31	111.97
1	ik	2	ILE	O-C-N	-6.77	116.03	123.20
1	io	181	VAL	CA-C-N	6.77	129.35	120.28
1	io	181	VAL	C-N-CA	6.77	129.35	120.28
1	j3	87	HIS	ND1-CE1-NE2	6.77	115.17	108.40
1	j8	203	LYS	CA-C-N	6.77	129.66	120.38
1	j8	203	LYS	C-N-CA	6.77	129.66	120.38
1	jB	12	HIS	ND1-CE1-NE2	6.77	115.17	108.40
1	jD	164	TYR	N-CA-C	6.77	118.31	111.07
1	jK	86	VAL	O-C-N	-6.77	115.51	122.75
1	k4	130	TYR	N-CA-C	6.77	118.66	111.28
1	k9	2	ILE	N-CA-CB	6.77	119.53	110.26
1	kM	19	THR	CB-CA-C	-6.77	99.55	110.79
1	kW	186	THR	CA-C-O	6.77	128.94	121.02
1	l7	37	ILE	O-C-N	-6.77	116.09	120.42
1	ld	75	GLU	CB-CA-C	6.77	121.51	110.88
1	lk	62	HIS	N-CA-C	6.77	120.51	111.30
1	lv	182	LYS	CA-C-O	6.77	127.73	120.55
1	2g	169	TYR	N-CA-CB	6.77	120.29	110.20
1	2m	185	MET	N-CA-C	6.77	118.66	111.28
1	2v	126	VAL	N-CA-C	6.77	118.34	110.62
1	2R	84	HIS	CA-CB-CG	6.77	120.57	113.80
1	3c	106	GLY	N-CA-C	-6.77	105.98	115.32
1	3o	214	MET	CA-C-O	6.77	127.73	120.55
1	3p	173	ARG	NE-CZ-NH2	-6.77	113.11	119.20
1	3F	217	ALA	CA-C-N	6.77	133.83	123.47
1	3F	217	ALA	C-N-CA	6.77	133.83	123.47
1	3I	53	ASN	CA-CB-CG	-6.77	105.83	112.60
1	4c	217	ALA	CA-C-N	6.77	134.35	123.93
1	4c	217	ALA	C-N-CA	6.77	134.35	123.93
1	4q	114	GLN	CA-C-N	6.77	129.73	120.46
1	4q	114	GLN	C-N-CA	6.77	129.73	120.46
1	4L	20	LEU	CA-C-N	6.77	130.03	120.28
1	4L	20	LEU	C-N-CA	6.77	130.03	120.28
1	55	98	GLU	CA-C-N	6.77	127.14	119.83
1	55	98	GLU	C-N-CA	6.77	127.14	119.83
1	5e	80	TRP	CA-C-N	6.77	130.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	80	TRP	C-N-CA	6.77	130.03	120.28
1	5f	165	VAL	CB-CA-C	6.77	121.28	112.14
1	5v	124	ILE	CB-CA-C	6.77	119.03	111.04
1	5A	15	ILE	O-C-N	-6.77	115.45	122.63
1	5A	54	THR	O-C-N	-6.77	114.30	122.22
1	5M	5	ASN	CA-CB-CG	-6.77	105.83	112.60
1	6G	162	ARG	NE-CZ-NH1	-6.77	114.73	121.50
1	7u	72	THR	CA-C-O	6.77	127.73	120.55
1	7y	70	LYS	N-CA-C	6.77	118.66	111.28
1	7A	83	LEU	O-C-N	-6.77	113.94	122.27
1	7F	77	ALA	N-CA-C	6.77	118.66	111.28
1	8U	50	GLN	CA-C-N	6.77	129.24	120.44
1	8U	50	GLN	C-N-CA	6.77	129.24	120.44
1	8U	117	TRP	CA-C-O	-6.77	113.37	120.55
1	9o	128	GLU	CA-C-O	6.77	127.73	120.55
1	9w	9	GLN	O-C-N	-6.77	115.39	123.31
1	9A	210	THR	N-CA-CB	6.77	119.92	110.17
1	9M	210	THR	CA-C-N	6.77	129.35	120.28
1	9M	210	THR	C-N-CA	6.77	129.35	120.28
1	9Y	74	ASN	N-CA-C	6.77	118.31	111.07
1	ae	133	TRP	N-CA-C	-6.77	103.36	111.69
1	ak	164	TYR	CA-C-N	6.77	129.74	120.46
1	ak	164	TYR	C-N-CA	6.77	129.74	120.46
1	aD	57	ASN	CA-CB-CG	-6.77	105.83	112.60
1	aO	67	GLN	CA-C-N	6.77	129.35	120.28
1	aO	67	GLN	C-N-CA	6.77	129.35	120.28
1	bb	35	GLU	O-C-N	-6.77	113.43	122.43
1	bp	133	TRP	N-CA-CB	6.77	119.83	110.01
1	bv	179	GLN	N-CA-C	6.77	118.66	111.28
1	ci	186	THR	CA-C-N	6.77	129.35	120.28
1	ci	186	THR	C-N-CA	6.77	129.35	120.28
1	co	30	LYS	CA-C-N	6.77	134.47	121.54
1	co	30	LYS	C-N-CA	6.77	134.47	121.54
1	1e	36	VAL	N-CA-C	6.77	116.87	110.30
1	cI	147	PRO	CA-C-N	6.77	131.97	122.36
1	cI	147	PRO	C-N-CA	6.77	131.97	122.36
1	cN	37	ILE	CA-C-O	6.77	123.85	118.71
1	d5	15	ILE	N-CA-C	6.77	118.07	108.93
1	do	123	PRO	CA-C-N	6.77	130.70	123.25
1	do	123	PRO	C-N-CA	6.77	130.70	123.25
1	dq	55	MET	CA-C-N	6.77	129.24	120.44
1	dq	55	MET	C-N-CA	6.77	129.24	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dv	159	GLU	N-CA-C	6.77	119.45	109.50
1	dw	95	GLN	CA-C-N	6.77	130.32	120.71
1	dw	95	GLN	C-N-CA	6.77	130.32	120.71
1	eB	191	VAL	N-CA-C	6.77	116.92	110.42
1	eP	11	VAL	N-CA-C	6.77	117.61	107.80
1	eS	79	GLU	CA-C-N	6.77	129.68	120.54
1	eS	79	GLU	C-N-CA	6.77	129.68	120.54
1	f2	101	GLY	CA-C-O	6.77	127.49	119.50
1	fm	158	LYS	CA-C-N	6.77	129.80	120.39
1	fm	158	LYS	C-N-CA	6.77	129.80	120.39
1	fq	32	PHE	CA-C-O	-6.77	113.05	120.36
1	fs	193	ASN	CA-C-N	6.77	135.54	121.32
1	fs	193	ASN	C-N-CA	6.77	135.54	121.32
1	fE	139	ASN	OD1-CG-ND2	-6.77	115.83	122.60
1	fL	134	ILE	O-C-N	-6.77	115.28	121.91
1	ga	9	GLN	CA-C-N	6.77	130.44	120.90
1	ga	9	GLN	C-N-CA	6.77	130.44	120.90
1	1C	74	ASN	CB-CG-ND2	-6.77	106.25	116.40
1	1E	95	GLN	CB-CG-CD	6.77	124.11	112.60
1	gK	136	LEU	CB-CA-C	6.77	122.02	110.79
1	gO	11	VAL	O-C-N	-6.77	114.38	122.77
1	h3	29	GLU	CA-C-O	6.77	127.79	120.55
1	hw	70	LYS	CA-C-N	6.77	129.35	120.28
1	hw	70	LYS	C-N-CA	6.77	129.35	120.28
1	hD	159	GLU	CA-C-O	-6.77	113.04	120.69
1	hI	156	GLY	CA-C-N	6.77	126.23	118.85
1	hI	156	GLY	C-N-CA	6.77	126.23	118.85
1	iw	115	ILE	CA-C-N	6.77	127.49	119.98
1	iw	115	ILE	C-N-CA	6.77	127.49	119.98
1	iN	48	THR	O-C-N	-6.77	111.51	121.12
1	iP	80	TRP	N-CA-CB	-6.77	99.91	110.06
1	jm	50	GLN	O-C-N	-6.77	114.95	122.12
1	jw	25	LYS	N-CA-C	6.77	118.66	111.28
1	kq	227	LYS	CA-C-N	6.77	130.36	120.82
1	kq	227	LYS	C-N-CA	6.77	130.36	120.82
1	26	128	GLU	N-CA-C	6.77	118.66	111.28
1	ll	195	ASN	CA-C-N	6.77	128.30	119.84
1	ll	195	ASN	C-N-CA	6.77	128.30	119.84
1	lm	187	GLU	CB-CA-C	-6.77	99.56	110.79
1	lw	132	ARG	NE-CZ-NH2	6.77	125.29	119.20
1	lD	117	TRP	O-C-N	-6.77	113.94	122.27
1	lF	122	PRO	CA-C-N	6.77	126.73	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	122	PRO	C-N-CA	6.77	126.73	119.76
1	2k	39	MET	CA-C-N	6.77	129.35	120.28
1	2k	39	MET	C-N-CA	6.77	129.35	120.28
1	2y	15	ILE	CA-CB-CG1	6.77	121.91	110.40
1	3E	226	HIS	CB-CG-CD2	-6.77	122.40	131.20
1	4b	84	HIS	CA-CB-CG	6.77	120.57	113.80
1	4d	101	GLY	CA-C-N	6.77	129.65	120.38
1	4d	101	GLY	C-N-CA	6.77	129.65	120.38
1	4C	184	TRP	O-C-N	-6.77	114.44	122.15
1	53	62	HIS	ND1-CG-CD2	6.77	112.87	106.10
1	5B	5	ASN	CA-CB-CG	6.77	119.37	112.60
1	65	89	GLY	CA-C-N	6.77	128.30	119.84
1	65	89	GLY	C-N-CA	6.77	128.30	119.84
1	66	76	GLU	CA-C-N	6.77	129.35	120.28
1	66	76	GLU	C-N-CA	6.77	129.35	120.28
1	6h	128	GLU	CA-C-N	6.77	129.09	120.56
1	6h	128	GLU	C-N-CA	6.77	129.09	120.56
1	6k	40	PHE	CA-C-N	6.77	129.35	120.28
1	6k	40	PHE	C-N-CA	6.77	129.35	120.28
1	6p	77	ALA	CA-C-O	6.77	127.59	120.42
1	6t	167	ARG	CA-C-N	6.77	129.35	120.28
1	6t	167	ARG	C-N-CA	6.77	129.35	120.28
1	6B	147	PRO	CA-C-N	6.77	130.48	120.87
1	6B	147	PRO	C-N-CA	6.77	130.48	120.87
1	6E	18	ARG	N-CA-C	6.77	120.01	111.69
1	6O	68	MET	O-C-N	-6.77	115.10	122.07
1	6T	206	GLY	CA-C-N	6.77	128.30	119.84
1	6T	206	GLY	C-N-CA	6.77	128.30	119.84
1	78	168	PHE	CA-CB-CG	-6.77	107.03	113.80
1	7h	107	THR	N-CA-C	6.77	119.67	111.82
1	7O	155	GLN	OE1-CD-NE2	-6.77	115.83	122.60
1	8s	68	MET	CA-C-N	6.77	129.24	120.44
1	8s	68	MET	C-N-CA	6.77	129.24	120.44
1	8I	148	THR	O-C-N	-6.77	115.53	123.11
1	8T	202	LEU	N-CA-C	6.77	119.49	111.71
1	98	62	HIS	CA-CB-CG	-6.77	107.03	113.80
1	9a	165	VAL	N-CA-C	6.77	117.52	110.62
1	9h	164	TYR	CA-C-N	6.77	129.73	120.46
1	9h	164	TYR	C-N-CA	6.77	129.73	120.46
1	9u	46	GLY	CA-C-N	6.77	131.10	121.42
1	9u	46	GLY	C-N-CA	6.77	131.10	121.42
1	9y	15	ILE	O-C-N	-6.77	115.29	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	126	VAL	CA-C-O	6.77	128.31	121.27
1	a1	191	VAL	N-CA-C	6.77	117.52	110.62
1	12	144	MET	CA-C-O	6.77	127.92	120.82
1	aK	197	ASP	CA-CB-CG	-6.77	105.83	112.60
1	aS	84	HIS	O-C-N	6.77	127.67	121.04
1	b7	167	ARG	N-CA-C	6.77	118.66	111.28
1	bl	27	VAL	N-CA-CB	6.77	118.47	110.55
1	bx	181	VAL	CA-C-O	-6.77	114.00	121.17
1	bC	117	TRP	N-CA-C	6.77	118.66	111.28
1	cY	184	TRP	CA-C-N	6.77	129.24	120.44
1	cY	184	TRP	C-N-CA	6.77	129.24	120.44
1	dQ	39	MET	CA-C-N	6.77	129.24	120.44
1	dQ	39	MET	C-N-CA	6.77	129.24	120.44
1	1n	67	GLN	CA-C-O	6.77	127.59	120.42
1	e3	118	MET	N-CA-C	6.77	120.80	112.54
1	1p	48	THR	N-CA-CB	6.77	117.14	109.49
1	ef	11	VAL	O-C-N	-6.77	115.76	123.00
1	eJ	84	HIS	CE1-NE2-CD2	-6.77	102.23	109.00
1	eZ	199	LYS	CA-C-N	6.77	129.35	120.28
1	eZ	199	LYS	C-N-CA	6.77	129.35	120.28
1	f8	102	SER	N-CA-C	6.77	118.66	111.28
1	fb	128	GLU	CA-C-O	6.77	127.72	120.55
1	fe	88	ALA	N-CA-C	-6.77	98.37	108.99
1	fp	134	ILE	CA-C-N	6.77	131.16	120.47
1	fp	134	ILE	C-N-CA	6.77	131.16	120.47
1	g6	194	ALA	CA-C-N	6.77	129.80	120.39
1	g6	194	ALA	C-N-CA	6.77	129.80	120.39
1	r	16	SER	CA-C-N	6.77	126.56	119.05
1	r	16	SER	C-N-CA	6.77	126.56	119.05
1	M	45	GLU	N-CA-C	6.77	120.18	110.10
1	9	38	PRO	CA-C-N	6.77	129.24	120.44
1	9	38	PRO	C-N-CA	6.77	129.24	120.44
1	gr	143	ARG	N-CA-CB	-6.77	100.15	110.16
1	h8	65	ALA	N-CA-C	6.77	118.73	111.36
1	hD	163	ASP	CA-CB-CG	-6.77	105.83	112.60
1	hV	87	HIS	ND1-CE1-NE2	6.77	115.17	108.40
1	hX	82	ARG	O-C-N	-6.77	114.95	122.12
1	iu	132	ARG	NE-CZ-NH1	6.77	128.27	121.50
1	iE	126	VAL	N-CA-C	6.77	117.52	110.62
1	ji	81	ASP	CA-C-N	6.77	129.67	120.54
1	ji	81	ASP	C-N-CA	6.77	129.67	120.54
1	jz	77	ALA	CB-CA-C	-6.77	99.56	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	10	MET	N-CA-C	6.77	120.18	110.10
1	kN	105	ALA	CA-C-O	6.77	127.77	119.11
1	l9	124	ILE	CA-C-O	-6.77	112.52	119.89
1	2I	129	ILE	N-CA-C	6.77	116.92	110.42
1	2U	175	GLU	CA-C-O	-6.77	113.21	120.92
1	3I	110	THR	CA-C-N	6.77	129.67	120.54
1	3I	110	THR	C-N-CA	6.77	129.67	120.54
1	48	84	HIS	O-C-N	-6.77	115.86	121.27
1	4s	177	ALA	N-CA-C	6.77	119.29	110.43
1	7k	70	LYS	CA-C-N	6.77	129.90	120.29
1	7k	70	LYS	C-N-CA	6.77	129.90	120.29
1	7t	113	GLU	CA-C-O	6.77	127.72	120.55
1	8g	39	MET	N-CA-C	6.77	118.66	111.28
1	8n	18	ARG	N-CA-C	6.77	118.66	111.28
1	90	182	LYS	N-CA-C	6.77	119.67	111.82
1	94	67	GLN	CA-C-N	6.77	129.35	120.28
1	94	67	GLN	C-N-CA	6.77	129.35	120.28
1	9m	62	HIS	ND1-CG-CD2	6.77	112.87	106.10
1	bp	226	HIS	ND1-CE1-NE2	6.77	115.17	108.40
1	1g	152	ASP	CA-CB-CG	-6.77	105.83	112.60
1	d2	182	LYS	N-CA-C	6.77	118.66	111.28
1	1q	68	MET	N-CA-C	6.77	118.66	111.28
1	em	84	HIS	CA-C-N	6.77	128.30	119.84
1	em	84	HIS	C-N-CA	6.77	128.30	119.84
1	ez	120	HIS	CB-CG-CD2	-6.77	122.40	131.20
1	eQ	216	THR	CB-CA-C	-6.77	96.73	109.72
1	f1	100	ARG	NH1-CZ-NH2	6.77	128.10	119.30
1	fD	19	THR	N-CA-C	-6.77	103.83	111.07
1	b	74	ASN	N-CA-C	6.77	118.73	111.36
1	v	154	ARG	NH1-CZ-NH2	-6.77	110.50	119.30
1	9	191	VAL	CA-C-N	6.77	129.35	120.28
1	9	191	VAL	C-N-CA	6.77	129.35	120.28
1	gk	71	GLU	N-CA-CB	6.76	120.17	110.16
1	gz	168	PHE	CB-CA-C	6.76	122.02	110.79
1	gC	182	LYS	CA-C-O	6.76	127.72	120.55
1	gZ	37	ILE	O-C-N	-6.76	116.09	120.42
1	hi	55	MET	O-C-N	-6.76	115.10	122.07
1	1O	204	ALA	N-CA-C	6.76	118.65	111.28
1	ik	180	GLU	N-CA-C	6.76	118.65	111.28
1	1P	74	ASN	O-C-N	-6.76	115.10	122.07
1	iu	62	HIS	ND1-CG-CD2	6.76	112.86	106.10
1	iB	70	LYS	CA-C-N	6.76	129.23	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iB	70	LYS	C-N-CA	6.76	129.23	120.44
1	j4	15	ILE	N-CA-CB	6.76	121.49	110.13
1	j7	112	GLN	OE1-CD-NE2	-6.76	115.83	122.60
1	20	158	LYS	CA-C-O	6.76	127.27	119.35
1	kt	27	VAL	O-C-N	-6.76	114.11	122.57
1	kI	36	VAL	CA-C-O	-6.76	112.82	119.92
1	l7	195	ASN	N-CA-C	6.76	124.76	109.81
1	li	30	LYS	CA-C-O	6.76	127.70	119.31
1	ly	102	SER	CA-C-O	6.76	127.72	120.55
1	2D	3	VAL	CA-C-N	6.76	131.73	122.19
1	2D	3	VAL	C-N-CA	6.76	131.73	122.19
1	39	139	ASN	CA-C-N	6.76	129.34	120.28
1	39	139	ASN	C-N-CA	6.76	129.34	120.28
1	39	186	THR	O-C-N	-6.76	115.10	122.07
1	3k	189	LEU	N-CA-C	6.76	118.65	111.28
1	3N	132	ARG	NE-CZ-NH2	-6.76	113.11	119.20
1	4m	40	PHE	CA-C-O	6.76	127.77	119.79
1	4n	139	ASN	OD1-CG-ND2	-6.76	115.83	122.60
1	4r	76	GLU	O-C-N	-6.76	114.95	122.12
1	4C	46	GLY	CA-C-N	6.76	130.31	120.71
1	4C	46	GLY	C-N-CA	6.76	130.31	120.71
1	4D	21	ASN	O-C-N	-6.76	115.05	122.09
1	4G	44	SER	CA-C-N	6.76	131.03	121.02
1	4G	44	SER	C-N-CA	6.76	131.03	121.02
1	52	169	TYR	O-C-N	-6.76	114.31	122.22
1	5e	128	GLU	O-C-N	-6.76	115.10	122.07
1	5o	25	LYS	CA-C-O	-6.76	113.72	120.82
1	5G	83	LEU	N-CA-C	6.76	118.65	111.28
1	6s	1	PRO	CB-CA-C	6.76	122.95	110.10
1	6A	62	HIS	N-CA-C	6.76	120.45	110.30
1	6L	65	ALA	CA-C-O	6.76	127.72	120.55
1	7G	112	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	7K	48	THR	CA-C-N	6.76	127.03	119.32
1	7K	48	THR	C-N-CA	6.76	127.03	119.32
1	7N	10	MET	O-C-N	-6.76	114.44	122.96
1	81	43	LEU	O-C-N	-6.76	114.95	122.12
1	8g	12	HIS	N-CA-CB	6.76	122.04	110.68
1	8m	126	VAL	CB-CA-C	-6.76	103.01	112.14
1	8Z	74	ASN	N-CA-C	6.76	118.73	111.36
1	98	31	ALA	N-CA-C	6.76	119.82	110.35
1	98	139	ASN	N-CA-C	6.76	118.31	111.07
1	9f	25	LYS	N-CA-C	6.76	118.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9z	177	ALA	N-CA-C	6.76	120.04	110.23
1	a0	52	LEU	CA-C-N	6.76	129.34	120.28
1	a0	52	LEU	C-N-CA	6.76	129.34	120.28
1	aa	22	ALA	O-C-N	-6.76	114.95	122.12
1	aD	152	ASP	CA-C-N	-6.76	113.92	122.37
1	aD	152	ASP	C-N-CA	-6.76	113.92	122.37
1	13	25	LYS	N-CA-C	6.76	118.73	111.36
1	14	41	SER	CA-C-N	6.76	129.34	120.28
1	14	41	SER	C-N-CA	6.76	129.34	120.28
1	aV	120	HIS	CB-CG-CD2	6.76	139.99	131.20
1	aW	68	MET	CA-C-N	6.76	129.23	120.44
1	aW	68	MET	C-N-CA	6.76	129.23	120.44
1	b0	169	TYR	CA-C-N	6.76	129.90	120.29
1	b0	169	TYR	C-N-CA	6.76	129.90	120.29
1	b4	115	ILE	CA-C-N	6.76	127.49	119.98
1	b4	115	ILE	C-N-CA	6.76	127.49	119.98
1	bf	100	ARG	NE-CZ-NH2	-6.76	113.11	119.20
1	bv	54	THR	O-C-N	-6.76	114.95	122.12
1	bw	214	MET	N-CA-C	6.76	118.65	111.28
1	19	221	VAL	CA-C-O	6.76	127.66	119.54
1	bM	112	GLN	CB-CG-CD	6.76	124.10	112.60
1	bW	198	CYS	N-CA-CB	6.76	120.17	110.16
1	ca	138	LEU	CA-C-N	6.76	129.34	120.28
1	ca	138	LEU	C-N-CA	6.76	129.34	120.28
1	ej	74	ASN	CA-C-N	6.76	129.24	120.44
1	ej	74	ASN	C-N-CA	6.76	129.24	120.44
1	eo	15	ILE	O-C-N	-6.76	115.51	122.75
1	ez	103	ASP	N-CA-CB	6.76	120.06	110.12
1	eO	167	ARG	N-CA-C	6.76	120.79	112.54
1	1t	208	ALA	O-C-N	-6.76	115.10	122.07
1	fE	179	GLN	OE1-CD-NE2	-6.76	115.83	122.60
1	h	114	GLN	CA-C-N	6.76	129.73	120.46
1	h	114	GLN	C-N-CA	6.76	129.73	120.46
1	w	178	SER	CA-C-N	6.76	129.34	120.28
1	w	178	SER	C-N-CA	6.76	129.34	120.28
1	x	213	GLU	N-CA-CB	6.76	120.17	110.16
1	z	145	TYR	CB-CG-CD2	-6.76	110.66	120.80
1	J	29	GLU	N-CA-C	6.76	118.54	111.03
1	L	56	LEU	O-C-N	-6.76	115.10	122.07
1	L	229	ARG	NE-CZ-NH1	6.76	128.26	121.50
1	gG	21	ASN	O-C-N	-6.76	114.44	122.15
1	1F	64	ALA	N-CA-C	6.76	118.31	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1I	148	THR	O-C-N	-6.76	115.54	123.25
1	hE	190	LEU	N-CA-C	6.76	118.31	111.07
1	i2	4	GLN	CA-C-N	6.76	133.16	122.74
1	i2	4	GLN	C-N-CA	6.76	133.16	122.74
1	iu	61	GLY	O-C-N	-6.76	115.59	123.17
1	iz	113	GLU	N-CA-C	6.76	118.31	111.07
1	1Z	12	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	k6	14	ALA	CA-C-N	6.76	129.56	120.50
1	k6	14	ALA	C-N-CA	6.76	129.56	120.50
1	24	168	PHE	O-C-N	-6.76	114.44	122.15
1	kX	120	HIS	CG-CD2-NE2	6.76	113.96	107.20
1	lF	223	GLY	O-C-N	6.76	128.51	122.42
1	3k	116	GLY	N-CA-C	6.76	120.85	112.73
1	3I	140	LYS	N-CA-C	6.76	118.65	111.28
1	3P	87	HIS	CA-CB-CG	-6.76	107.04	113.80
1	42	216	THR	CA-C-O	6.76	127.18	119.27
1	4o	28	GLU	N-CA-C	6.76	118.44	111.14
1	4J	92	GLU	CA-C-N	6.76	126.80	119.90
1	4J	92	GLU	C-N-CA	6.76	126.80	119.90
1	4P	57	ASN	CA-C-O	-6.76	113.38	120.55
1	58	112	GLN	OE1-CD-NE2	6.76	129.36	122.60
1	6o	120	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	7x	19	THR	CA-C-O	6.76	127.67	120.70
1	8l	71	GLU	CA-C-N	6.76	129.23	120.44
1	8l	71	GLU	C-N-CA	6.76	129.23	120.44
1	94	200	THR	N-CA-C	6.76	118.65	111.28
1	a0	103	ASP	O-C-N	6.76	129.29	122.12
1	a9	22	ALA	N-CA-C	6.76	118.65	111.28
1	b0	80	TRP	CB-CG-CD2	6.76	136.27	126.80
1	ba	226	HIS	ND1-CE1-NE2	6.76	115.16	108.40
1	br	140	LYS	N-CA-CB	-6.76	100.15	110.16
1	1b	115	ILE	CA-C-N	6.76	127.45	119.94
1	1b	115	ILE	C-N-CA	6.76	127.45	119.94
1	cp	226	HIS	CB-CG-CD2	-6.76	122.41	131.20
1	cZ	27	VAL	N-CA-C	6.76	117.52	110.62
1	1n	184	TRP	N-CA-C	6.76	118.65	111.28
1	fK	198	CYS	N-CA-CB	6.76	120.17	110.16
1	1	124	ILE	O-C-N	-6.76	117.11	121.37
1	ga	126	VAL	N-CA-CB	6.76	119.73	110.54
1	gC	167	ARG	CA-C-N	6.76	129.67	120.54
1	gC	167	ARG	C-N-CA	6.76	129.67	120.54
1	ho	68	MET	N-CA-C	6.76	119.48	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iu	133	TRP	CB-CG-CD2	-6.76	117.33	126.80
1	j2	116	GLY	CA-C-N	6.76	129.34	120.28
1	j2	116	GLY	C-N-CA	6.76	129.34	120.28
1	ji	41	SER	CA-C-N	6.76	129.89	120.29
1	ji	41	SER	C-N-CA	6.76	129.89	120.29
1	ju	167	ARG	N-CA-C	6.76	118.65	111.28
1	jH	229	ARG	CA-C-O	-6.76	114.19	121.56
1	jU	210	THR	CA-CB-OG1	6.76	119.74	109.60
1	k7	127	GLY	CA-C-O	-6.76	112.86	120.09
1	kd	79	GLU	N-CA-C	6.76	118.65	111.28
1	kj	87	HIS	O-C-N	-6.76	115.54	123.11
1	lA	82	ARG	N-CA-C	6.76	118.73	111.36
1	2s	209	ALA	N-CA-C	6.76	120.29	110.28
1	2y	196	PRO	N-CA-CB	-6.76	97.02	103.51
1	2z	66	MET	N-CA-C	6.76	118.73	111.36
1	2K	104	ILE	O-C-N	-6.76	113.19	122.05
1	3z	45	GLU	N-CA-C	6.76	119.51	111.33
1	3O	52	LEU	O-C-N	-6.76	114.95	122.12
1	43	35	GLU	N-CA-C	6.76	120.98	112.87
1	4j	226	HIS	CG-CD2-NE2	6.76	113.96	107.20
1	4u	8	GLY	CA-C-O	6.76	127.44	119.46
1	4u	21	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	4D	117	TRP	O-C-N	-6.76	114.95	122.12
1	4T	122	PRO	CA-C-N	6.76	126.79	119.89
1	4T	122	PRO	C-N-CA	6.76	126.79	119.89
1	4T	126	VAL	CA-C-N	6.76	127.44	120.00
1	4T	126	VAL	C-N-CA	6.76	127.44	120.00
1	56	135	ILE	CA-C-N	6.76	129.23	120.44
1	56	135	ILE	C-N-CA	6.76	129.23	120.44
1	5j	182	LYS	CA-C-N	6.76	129.89	120.29
1	5j	182	LYS	C-N-CA	6.76	129.89	120.29
1	5v	18	ARG	NH1-CZ-NH2	-6.76	110.51	119.30
1	65	24	VAL	CA-C-N	6.76	129.23	120.44
1	65	24	VAL	C-N-CA	6.76	129.23	120.44
1	67	32	PHE	CA-CB-CG	-6.76	107.04	113.80
1	6l	13	GLN	O-C-N	-6.76	114.92	123.24
1	6v	168	PHE	N-CA-C	6.76	119.27	111.02
1	6I	193	ASN	CA-CB-CG	6.76	119.36	112.60
1	7k	209	ALA	N-CA-C	6.76	120.29	110.42
1	7B	195	ASN	CA-CB-CG	6.76	119.36	112.60
1	7Z	4	GLN	CA-C-O	6.76	128.24	120.60
1	86	30	LYS	N-CA-CB	-6.76	100.71	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8d	18	ARG	CA-C-N	6.76	129.64	120.44
1	8d	18	ARG	C-N-CA	6.76	129.64	120.44
1	8e	105	ALA	CA-C-O	6.76	127.61	119.43
1	8R	203	LYS	N-CA-C	6.76	118.73	111.36
1	9s	182	LYS	N-CA-C	6.76	119.51	111.33
1	9v	77	ALA	CA-C-N	6.76	129.23	120.44
1	9v	77	ALA	C-N-CA	6.76	129.23	120.44
1	10	226	HIS	CA-CB-CG	-6.76	107.04	113.80
1	11	74	ASN	N-CA-CB	-6.76	99.92	110.06
1	bk	182	LYS	N-CA-C	6.76	119.22	111.11
1	bv	210	THR	CA-CB-OG1	6.76	119.74	109.60
1	bC	214	MET	CA-C-N	6.76	130.25	120.38
1	bC	214	MET	C-N-CA	6.76	130.25	120.38
1	c0	221	VAL	CB-CA-C	-6.76	104.28	110.91
1	cb	71	GLU	CA-C-N	6.76	129.23	120.44
1	cb	71	GLU	C-N-CA	6.76	129.23	120.44
1	cl	150	ILE	CA-C-N	6.76	130.59	120.31
1	cl	150	ILE	C-N-CA	6.76	130.59	120.31
1	cu	149	SER	CA-C-N	6.76	131.16	120.47
1	cu	149	SER	C-N-CA	6.76	131.16	120.47
1	cx	184	TRP	CA-C-N	6.76	129.23	120.44
1	cx	184	TRP	C-N-CA	6.76	129.23	120.44
1	cO	162	ARG	CA-C-N	6.76	129.89	120.29
1	cO	162	ARG	C-N-CA	6.76	129.89	120.29
1	1i	179	GLN	N-CA-C	6.76	118.31	111.07
1	dm	162	ARG	N-CA-C	6.76	118.65	111.28
1	dm	164	TYR	CA-C-N	6.76	129.72	120.46
1	dm	164	TYR	C-N-CA	6.76	129.72	120.46
1	dU	162	ARG	CB-CA-C	-6.76	99.19	110.68
1	dY	87	HIS	N-CA-CB	6.76	119.96	109.48
1	eD	142	VAL	CA-C-O	-6.76	113.92	120.95
1	eY	68	MET	CA-C-N	6.76	129.34	120.28
1	eY	68	MET	C-N-CA	6.76	129.34	120.28
1	f5	209	ALA	N-CA-C	6.76	125.20	110.80
1	fo	230	VAL	N-CA-C	6.76	117.18	108.12
1	fN	57	ASN	CA-CB-CG	6.76	119.36	112.60
1	fO	15	ILE	CA-C-O	6.76	129.51	120.99
1	fV	179	GLN	N-CA-C	6.76	119.22	111.11
1	1A	163	ASP	N-CA-C	6.76	118.65	111.28
1	g0	154	ARG	CA-C-N	6.76	130.42	120.95
1	g0	154	ARG	C-N-CA	6.76	130.42	120.95
1	b	178	SER	N-CA-C	6.76	119.55	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	85	PRO	CA-C-N	6.76	129.56	120.50
1	8	85	PRO	C-N-CA	6.76	129.56	120.50
1	gg	176	GLN	CA-C-N	6.76	134.45	121.54
1	gg	176	GLN	C-N-CA	6.76	134.45	121.54
1	gU	166	ASP	O-C-N	-6.76	114.96	122.12
1	h5	167	ARG	N-CA-C	6.76	118.65	111.28
1	h5	197	ASP	O-C-N	-6.76	115.11	122.07
1	h6	188	THR	CA-C-N	6.76	129.64	120.38
1	h6	188	THR	C-N-CA	6.76	129.64	120.38
1	hg	34	PRO	CA-C-N	6.76	130.01	120.28
1	hg	34	PRO	C-N-CA	6.76	130.01	120.28
1	i9	103	ASP	N-CA-C	6.76	118.65	111.28
1	1Q	57	ASN	CA-CB-CG	6.76	119.36	112.60
1	iK	219	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	iR	66	MET	N-CA-C	6.76	118.65	111.28
1	jF	124	ILE	CA-C-O	-6.76	114.11	119.25
1	k0	80	TRP	CA-C-N	6.76	129.34	120.28
1	k0	80	TRP	C-N-CA	6.76	129.34	120.28
1	kc	19	THR	N-CA-CB	6.76	119.81	110.01
1	km	120	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	kp	179	GLN	CA-C-N	6.76	129.34	120.28
1	kp	179	GLN	C-N-CA	6.76	129.34	120.28
1	kL	36	VAL	CA-C-N	6.76	134.64	122.13
1	kL	36	VAL	C-N-CA	6.76	134.64	122.13
1	lB	19	THR	CA-C-O	6.76	127.74	120.10
1	2n	62	HIS	N-CA-C	6.76	120.72	111.39
1	2t	165	VAL	O-C-N	-6.76	115.27	121.89
1	2H	143	ARG	N-CA-C	6.76	118.73	111.36
1	3b	198	CYS	CA-C-O	6.76	127.71	120.55
1	3i	206	GLY	CA-C-N	6.76	127.16	119.93
1	3i	206	GLY	C-N-CA	6.76	127.16	119.93
1	3B	161	PHE	CA-CB-CG	6.76	120.56	113.80
1	3Q	130	TYR	CA-C-N	6.76	129.34	120.28
1	3Q	130	TYR	C-N-CA	6.76	129.34	120.28
1	4c	10	MET	O-C-N	-6.76	114.17	122.82
1	4j	136	LEU	CA-C-N	6.76	127.31	119.94
1	4j	136	LEU	C-N-CA	6.76	127.31	119.94
1	4B	122	PRO	CA-C-N	6.76	127.00	119.90
1	4B	122	PRO	C-N-CA	6.76	127.00	119.90
1	58	205	LEU	CA-C-O	6.76	127.58	120.42
1	5J	74	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	6n	19	THR	CA-C-N	6.76	129.89	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6n	19	THR	C-N-CA	6.76	129.89	120.29
1	6K	129	ILE	CA-C-N	6.76	129.23	120.44
1	6K	129	ILE	C-N-CA	6.76	129.23	120.44
1	6T	113	GLU	O-C-N	6.76	129.29	122.12
1	78	131	LYS	N-CA-CB	-6.76	99.81	110.22
1	7Z	112	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	8i	18	ARG	CD-NE-CZ	6.76	133.87	124.40
1	8o	165	VAL	CA-C-O	-6.76	111.40	119.58
1	8E	80	TRP	N-CA-CB	-6.76	100.21	110.01
1	8X	13	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	9h	190	LEU	CA-C-N	6.76	129.08	120.56
1	9h	190	LEU	C-N-CA	6.76	129.08	120.56
1	9j	130	TYR	O-C-N	-6.76	114.95	122.12
1	a9	82	ARG	CA-C-N	6.76	130.01	120.28
1	a9	82	ARG	C-N-CA	6.76	130.01	120.28
1	aE	187	GLU	N-CA-C	6.76	119.51	111.33
1	14	12	HIS	CG-CD2-NE2	6.76	113.96	107.20
1	aQ	21	ASN	CA-CB-CG	6.76	119.36	112.60
1	b8	188	THR	CA-C-N	6.76	130.25	120.38
1	b8	188	THR	C-N-CA	6.76	130.25	120.38
1	17	102	SER	CA-C-N	6.76	129.23	120.44
1	17	102	SER	C-N-CA	6.76	129.23	120.44
1	bz	143	ARG	NE-CZ-NH2	-6.76	113.12	119.20
1	c2	199	LYS	O-C-N	-6.76	114.96	122.12
1	c4	51	ASP	CA-CB-CG	-6.76	105.84	112.60
1	cc	172	LEU	N-CA-C	6.76	119.22	111.11
1	cQ	103	ASP	CA-C-N	6.76	129.72	120.46
1	cQ	103	ASP	C-N-CA	6.76	129.72	120.46
1	d7	210	THR	N-CA-C	6.76	119.05	110.33
1	df	179	GLN	N-CA-C	6.76	119.51	111.33
1	dj	29	GLU	N-CA-C	6.76	118.65	111.28
1	1l	195	ASN	CA-C-N	6.76	128.29	119.84
1	1l	195	ASN	C-N-CA	6.76	128.29	119.84
1	dz	175	GLU	CA-C-N	6.76	131.72	122.19
1	dz	175	GLU	C-N-CA	6.76	131.72	122.19
1	1m	133	TRP	CA-C-N	6.76	129.08	120.56
1	1m	133	TRP	C-N-CA	6.76	129.08	120.56
1	dI	82	ARG	CA-C-N	6.76	129.34	120.28
1	dI	82	ARG	C-N-CA	6.76	129.34	120.28
1	ed	150	ILE	N-CA-CB	6.76	118.46	110.55
1	eT	49	PRO	CA-C-N	6.76	129.34	120.28
1	eT	49	PRO	C-N-CA	6.76	129.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eV	14	ALA	N-CA-C	6.76	119.68	110.55
1	f3	20	LEU	CA-C-N	6.76	129.34	120.28
1	f3	20	LEU	C-N-CA	6.76	129.34	120.28
1	f4	179	GLN	O-C-N	-6.76	114.44	122.15
1	fI	138	LEU	CA-C-N	6.76	129.34	120.28
1	fI	138	LEU	C-N-CA	6.76	129.34	120.28
1	fK	149	SER	N-CA-CB	6.76	121.92	110.49
1	fP	14	ALA	CA-C-N	6.76	129.56	120.50
1	fP	14	ALA	C-N-CA	6.76	129.56	120.50
1	fR	169	TYR	CA-C-O	-6.76	113.67	120.90
1	fV	221	VAL	N-CA-C	-6.76	98.93	108.80
1	u	80	TRP	CE2-CD2-CE3	6.76	125.56	118.80
1	hk	223	GLY	O-C-N	-6.76	116.34	122.42
1	hv	63	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	1K	39	MET	N-CA-C	6.76	118.30	111.07
1	hM	82	ARG	NE-CZ-NH2	-6.76	113.12	119.20
1	ig	226	HIS	CA-CB-CG	6.76	120.56	113.80
1	iH	87	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	jv	197	ASP	CA-CB-CG	-6.76	105.84	112.60
1	jT	91	ILE	CA-C-N	6.76	130.09	120.49
1	jT	91	ILE	C-N-CA	6.76	130.09	120.49
1	k6	42	ALA	N-CA-C	6.76	118.65	111.28
1	2Y	7	GLN	CA-C-O	-6.76	113.74	120.70
1	3s	104	ILE	CB-CA-C	6.76	121.55	112.22
1	4s	91	ILE	O-C-N	-6.76	114.12	122.57
1	6y	154	ARG	O-C-N	-6.76	116.19	123.42
1	6B	76	GLU	N-CA-C	6.76	118.65	111.28
1	9h	180	GLU	O-C-N	-6.76	114.96	122.12
1	9j	140	LYS	CA-C-N	6.76	129.15	120.70
1	9j	140	LYS	C-N-CA	6.76	129.15	120.70
1	aR	126	VAL	CA-C-O	-6.76	113.69	120.85
1	c2	79	GLU	CA-C-N	6.76	129.34	120.28
1	c2	79	GLU	C-N-CA	6.76	129.34	120.28
1	c3	8	GLY	CA-C-N	6.76	131.16	121.50
1	c3	8	GLY	C-N-CA	6.76	131.16	121.50
1	cV	229	ARG	NE-CZ-NH2	-6.76	113.12	119.20
1	dO	154	ARG	NE-CZ-NH1	6.76	128.26	121.50
1	1p	18	ARG	CD-NE-CZ	6.76	133.86	124.40
1	eP	174	ALA	N-CA-CB	-6.76	100.25	110.73
1	f8	72	THR	N-CA-CB	6.76	120.01	109.94
1	fa	61	GLY	N-CA-C	6.76	119.70	111.93
1	1z	144	MET	N-CA-C	6.76	118.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g5	65	ALA	CA-C-N	6.76	129.34	120.28
1	g5	65	ALA	C-N-CA	6.76	129.34	120.28
1	r	70	LYS	N-CA-C	6.76	119.51	111.33
1	gf	23	TRP	CA-C-N	6.76	129.32	120.60
1	gf	23	TRP	C-N-CA	6.76	129.32	120.60
1	gN	191	VAL	CA-C-N	6.76	130.58	120.31
1	gN	191	VAL	C-N-CA	6.76	130.58	120.31
1	1G	38	PRO	CA-C-N	6.76	129.33	120.28
1	1G	38	PRO	C-N-CA	6.76	129.33	120.28
1	gW	32	PHE	O-C-N	6.76	132.00	122.68
1	1J	137	GLY	CA-C-N	6.76	129.22	120.44
1	1J	137	GLY	C-N-CA	6.76	129.22	120.44
1	hw	161	PHE	CA-CB-CG	-6.76	107.04	113.80
1	hI	12	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	hZ	123	PRO	N-CA-C	6.76	121.83	111.15
1	i2	135	ILE	O-C-N	-6.76	115.32	121.87
1	ii	136	LEU	CA-C-N	6.76	127.63	119.99
1	ii	136	LEU	C-N-CA	6.76	127.63	119.99
1	iq	76	GLU	N-CA-C	6.76	118.64	111.28
1	ir	184	TRP	CA-C-O	6.76	127.73	120.10
1	1Q	170	LYS	N-CA-CB	-6.76	99.81	110.22
1	iz	130	TYR	CB-CG-CD2	-6.76	110.66	120.80
1	jZ	225	GLY	N-CA-C	-6.76	104.17	112.68
1	kf	164	TYR	CD1-CG-CD2	6.76	128.24	118.10
1	kr	18	ARG	N-CA-C	-6.76	103.38	111.69
1	kV	65	ALA	N-CA-C	6.76	118.30	111.07
1	lB	188	THR	CA-C-O	-6.76	111.82	119.79
1	2a	118	MET	N-CA-C	6.76	120.78	112.54
1	2c	155	GLN	CB-CG-CD	6.76	124.09	112.60
1	2n	219	GLN	O-C-N	-6.76	115.28	123.19
1	2x	80	TRP	CA-CB-CG	6.76	126.44	113.60
1	2J	21	ASN	N-CA-C	6.76	119.22	111.11
1	31	157	PRO	CB-CA-C	6.76	121.24	111.04
1	37	217	ALA	N-CA-C	6.76	119.02	110.24
1	3m	128	GLU	N-CA-C	-6.76	103.69	112.68
1	42	194	ALA	CA-C-N	6.76	130.95	120.68
1	42	194	ALA	C-N-CA	6.76	130.95	120.68
1	4y	70	LYS	N-CA-C	6.76	118.30	111.07
1	4E	57	ASN	OD1-CG-ND2	-6.76	115.84	122.60
1	54	64	ALA	O-C-N	-6.76	114.45	122.15
1	5a	24	VAL	N-CA-C	6.76	117.51	110.62
1	5t	53	ASN	OD1-CG-ND2	-6.76	115.84	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5z	11	VAL	CA-CB-CG2	6.76	121.89	110.40
1	5J	9	GLN	CG-CD-OE1	6.76	134.31	120.80
1	5O	24	VAL	CA-C-N	6.76	129.88	120.29
1	5O	24	VAL	C-N-CA	6.76	129.88	120.29
1	5X	145	TYR	O-C-N	-6.76	113.72	122.37
1	6z	154	ARG	NE-CZ-NH2	-6.76	113.12	119.20
1	6I	132	ARG	N-CA-C	6.76	118.30	111.07
1	6M	41	SER	N-CA-C	6.76	118.30	111.07
1	6O	12	HIS	CE1-NE2-CD2	-6.76	102.24	109.00
1	6Q	175	GLU	CA-C-O	6.76	128.62	121.19
1	7u	11	VAL	CA-C-N	6.76	131.08	121.42
1	7u	11	VAL	C-N-CA	6.76	131.08	121.42
1	7A	84	HIS	CG-CD2-NE2	6.76	113.96	107.20
1	8l	177	ALA	N-CA-C	6.76	125.19	110.80
1	8U	213	GLU	CA-C-O	-6.76	113.26	120.42
1	9q	79	GLU	N-CA-C	6.76	118.30	111.07
1	9s	115	ILE	CA-C-N	6.76	127.63	119.99
1	9s	115	ILE	C-N-CA	6.76	127.63	119.99
1	9G	18	ARG	CD-NE-CZ	6.76	133.86	124.40
1	9H	39	MET	CG-SD-CE	-6.76	86.03	100.90
1	9P	71	GLU	N-CA-C	6.76	118.64	111.28
1	Y	170	LYS	N-CA-C	6.76	118.64	111.28
1	9T	143	ARG	N-CA-C	6.76	118.30	111.07
1	11	137	GLY	CA-C-N	6.76	129.33	120.28
1	11	137	GLY	C-N-CA	6.76	129.33	120.28
1	aA	19	THR	N-CA-C	-6.76	104.85	113.23
1	aX	62	HIS	CB-CG-CD2	-6.76	122.42	131.20
1	bj	177	ALA	CA-C-N	6.76	130.35	120.82
1	bj	177	ALA	C-N-CA	6.76	130.35	120.82
1	c3	8	GLY	O-C-N	-6.76	117.46	123.88
1	cc	97	ARG	NE-CZ-NH1	6.76	128.26	121.50
1	ci	43	LEU	O-C-N	-6.76	113.38	122.43
1	d0	41	SER	N-CA-C	6.76	118.30	111.07
1	1i	115	ILE	CB-CA-C	-6.76	103.02	112.14
1	dM	172	LEU	N-CA-C	-6.76	104.16	112.88
1	dW	210	THR	N-CA-C	6.76	120.28	110.28
1	e6	175	GLU	O-C-N	-6.76	114.50	122.81
1	eb	26	VAL	N-CA-C	6.76	116.88	110.53
1	1p	9	GLN	OE1-CD-NE2	-6.76	115.84	122.60
1	eg	27	VAL	CA-C-O	6.76	127.80	120.57
1	eo	90	PRO	N-CA-CB	6.76	109.00	103.32
1	ey	210	THR	O-C-N	-6.76	114.78	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eT	136	LEU	CA-C-O	6.76	127.71	120.55
1	fa	105	ALA	N-CA-CB	-6.76	99.47	110.42
1	fg	119	THR	CA-C-N	6.76	130.75	120.82
1	fg	119	THR	C-N-CA	6.76	130.75	120.82
1	1x	116	GLY	CA-C-N	6.76	129.33	120.28
1	1x	116	GLY	C-N-CA	6.76	129.33	120.28
1	fD	192	GLN	OE1-CD-NE2	6.76	129.36	122.60
1	g6	126	VAL	N-CA-C	6.76	119.53	111.09
1	4	22	ALA	CA-C-N	6.76	129.66	120.54
1	4	22	ALA	C-N-CA	6.76	129.66	120.54
1	R	69	LEU	CA-C-N	6.76	129.88	120.29
1	R	69	LEU	C-N-CA	6.76	129.88	120.29
1	gZ	130	TYR	N-CA-C	6.75	118.64	111.28
1	jS	97	ARG	CA-C-O	-6.75	113.42	121.66
1	kk	63	GLN	N-CA-C	6.75	118.72	111.36
1	lC	165	VAL	N-CA-C	-6.75	103.64	111.00
1	lR	208	ALA	CA-C-N	6.75	130.46	120.87
1	lR	208	ALA	C-N-CA	6.75	130.46	120.87
1	2p	187	GLU	N-CA-C	6.75	118.33	110.97
1	37	37	ILE	N-CA-C	6.75	121.11	112.67
1	4N	87	HIS	CE1-NE2-CD2	-6.75	102.25	109.00
1	4U	184	TRP	CA-C-O	6.75	127.71	120.55
1	5v	192	GLN	CA-C-N	6.75	132.19	122.40
1	5v	192	GLN	C-N-CA	6.75	132.19	122.40
1	6b	9	GLN	O-C-N	-6.75	113.61	122.59
1	6G	7	GLN	CA-C-O	6.75	126.85	119.15
1	9e	121	ASN	O-C-N	-6.75	114.89	121.38
1	9k	130	TYR	CA-C-N	6.75	129.22	120.44
1	9k	130	TYR	C-N-CA	6.75	129.22	120.44
1	ab	209	ALA	O-C-N	-6.75	114.41	122.65
1	aA	91	ILE	CA-C-O	6.75	128.34	121.58
1	aX	51	ASP	CA-C-N	6.75	129.88	120.29
1	aX	51	ASP	C-N-CA	6.75	129.88	120.29
1	b2	13	GLN	CB-CG-CD	6.75	124.08	112.60
1	bc	105	ALA	CA-C-O	6.75	127.73	120.10
1	bk	130	TYR	CB-CG-CD1	6.75	130.93	120.80
1	cD	62	HIS	N-CA-C	6.75	120.49	111.30
1	cO	63	GLN	N-CA-C	6.75	118.64	111.28
1	d1	137	GLY	CA-C-N	6.75	130.01	120.28
1	d1	137	GLY	C-N-CA	6.75	130.01	120.28
1	d3	226	HIS	N-CA-C	6.75	119.02	110.24
1	eo	50	GLN	O-C-N	-6.75	114.96	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1w	159	GLU	CA-C-N	6.75	126.79	119.90
1	1w	159	GLU	C-N-CA	6.75	126.79	119.90
1	fW	195	ASN	CA-C-O	6.75	127.55	120.25
1	x	16	SER	CA-C-O	-6.75	113.75	119.76
1	h4	57	ASN	CA-C-O	6.75	127.68	119.31
1	hB	82	ARG	N-CA-C	6.75	119.50	111.33
1	hQ	122	PRO	CA-C-N	6.75	126.79	119.90
1	hQ	122	PRO	C-N-CA	6.75	126.79	119.90
1	hW	219	GLN	N-CA-C	6.75	119.76	110.24
1	i5	40	PHE	O-C-N	-6.75	115.07	122.09
1	ij	179	GLN	N-CA-C	6.75	119.50	111.33
1	ix	178	SER	CA-C-O	6.75	128.73	121.44
1	iY	148	THR	OG1-CB-CG2	-6.75	95.79	109.30
1	ja	170	LYS	N-CA-C	6.75	118.64	111.28
1	jI	182	LYS	N-CA-CB	6.75	120.05	110.12
1	jR	50	GLN	N-CA-C	6.75	119.48	111.71
1	20	171	THR	O-C-N	-6.75	114.45	122.15
1	kh	197	ASP	CA-C-N	6.75	129.88	120.29
1	kh	197	ASP	C-N-CA	6.75	129.88	120.29
1	kv	154	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	kE	56	LEU	N-CA-CB	6.75	120.05	110.12
1	ln	21	ASN	CA-CB-CG	6.75	119.35	112.60
1	lM	170	LYS	CA-C-O	6.75	128.13	120.90
1	2Z	85	PRO	N-CA-C	6.75	121.89	110.95
1	3z	11	VAL	O-C-N	-6.75	116.25	123.14
1	3D	180	GLU	O-C-N	-6.75	114.96	122.12
1	3M	162	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	3V	39	MET	CA-C-O	6.75	127.71	120.55
1	3Y	50	GLN	OE1-CD-NE2	6.75	129.35	122.60
1	4B	130	TYR	O-C-N	-6.75	115.11	122.07
1	4G	3	VAL	O-C-N	-6.75	115.97	123.26
1	4T	179	GLN	CA-C-N	6.75	131.93	121.19
1	4T	179	GLN	C-N-CA	6.75	131.93	121.19
1	4T	227	LYS	N-CA-C	6.75	119.53	110.35
1	5i	52	LEU	CA-C-O	-6.75	112.20	119.97
1	5O	179	GLN	CB-CG-CD	6.75	124.08	112.60
1	62	21	ASN	OD1-CG-ND2	-6.75	115.85	122.60
1	6B	120	HIS	CB-CG-CD2	-6.75	122.42	131.20
1	6X	64	ALA	CA-C-O	6.75	128.13	120.90
1	7s	141	ILE	CA-C-N	6.75	129.71	120.46
1	7s	141	ILE	C-N-CA	6.75	129.71	120.46
1	8h	162	ARG	NE-CZ-NH2	6.75	125.28	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	89	GLY	O-C-N	-6.75	115.02	121.77
1	8C	82	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	8S	160	PRO	N-CA-C	6.75	121.67	111.14
1	8W	18	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	9e	98	GLU	CA-C-O	-6.75	114.52	120.19
1	9q	62	HIS	ND1-CG-CD2	6.75	112.85	106.10
1	a8	90	PRO	CA-C-O	-6.75	114.18	121.27
1	ak	223	GLY	CA-C-N	6.75	128.28	119.84
1	ak	223	GLY	C-N-CA	6.75	128.28	119.84
1	ax	121	ASN	CA-C-O	-6.75	113.07	119.55
1	15	98	GLU	N-CA-C	6.75	119.20	109.48
1	cq	8	GLY	N-CA-C	6.75	125.69	114.48
1	cP	134	ILE	CA-C-O	-6.75	113.69	120.85
1	cT	195	ASN	O-C-N	-6.75	113.87	121.43
1	dd	154	ARG	CA-C-N	6.75	131.51	121.72
1	dd	154	ARG	C-N-CA	6.75	131.51	121.72
1	dk	216	THR	CA-C-N	6.75	131.16	121.50
1	dk	216	THR	C-N-CA	6.75	131.16	121.50
1	1k	124	ILE	N-CA-C	-6.75	101.42	107.56
1	dA	182	LYS	N-CA-C	6.75	118.64	111.28
1	dB	9	GLN	CA-C-O	-6.75	113.02	120.38
1	1o	106	GLY	CA-C-N	6.75	129.63	120.38
1	1o	106	GLY	C-N-CA	6.75	129.63	120.38
1	ec	77	ALA	CA-C-O	6.75	127.91	120.82
1	fj	183	ASN	CA-C-N	6.75	129.22	120.44
1	fj	183	ASN	C-N-CA	6.75	129.22	120.44
1	fJ	10	MET	N-CA-C	6.75	122.95	113.56
1	fM	116	GLY	CA-C-N	6.75	129.22	120.44
1	fM	116	GLY	C-N-CA	6.75	129.22	120.44
1	1z	168	PHE	CA-CB-CG	6.75	120.55	113.80
1	a	98	GLU	N-CA-C	6.75	118.41	109.83
1	b	92	GLU	CA-CB-CG	-6.75	100.59	114.10
1	q	33	SER	CA-C-O	-6.75	113.21	119.76
1	gy	12	HIS	CG-CD2-NE2	6.75	113.95	107.20
1	1F	88	ALA	N-CA-C	6.75	119.76	110.24
1	hr	44	SER	N-CA-C	6.75	120.83	112.59
1	hy	30	LYS	CA-C-N	6.75	131.95	122.36
1	hy	30	LYS	C-N-CA	6.75	131.95	122.36
1	hK	120	HIS	CA-CB-CG	6.75	120.55	113.80
1	hS	109	SER	N-CA-CB	6.75	121.90	110.49
1	i1	227	LYS	N-CA-C	6.75	119.02	110.24
1	i2	167	ARG	NE-CZ-NH2	6.75	125.28	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1N	88	ALA	N-CA-CB	-6.75	99.90	110.30
1	if	55	MET	N-CA-C	6.75	118.64	111.28
1	ih	182	LYS	N-CA-C	6.75	118.64	111.28
1	it	162	ARG	N-CA-C	6.75	118.72	111.36
1	iV	41	SER	CA-C-N	6.75	129.22	120.44
1	iV	41	SER	C-N-CA	6.75	129.22	120.44
1	iX	194	ALA	O-C-N	-6.75	114.41	122.65
1	jr	77	ALA	CA-C-N	6.75	129.65	120.54
1	jr	77	ALA	C-N-CA	6.75	129.65	120.54
1	js	63	GLN	OE1-CD-NE2	-6.75	115.85	122.60
1	jy	169	TYR	N-CA-C	6.75	119.50	111.33
1	jz	64	ALA	CA-C-O	6.75	127.65	120.70
1	jX	196	PRO	N-CA-CB	6.75	110.34	103.25
1	k9	199	LYS	CA-C-N	6.75	129.22	120.44
1	k9	199	LYS	C-N-CA	6.75	129.22	120.44
1	lJ	95	GLN	CA-C-N	6.75	135.60	122.03
1	lJ	95	GLN	C-N-CA	6.75	135.60	122.03
1	2r	51	ASP	CA-CB-CG	-6.75	105.85	112.60
1	2y	150	ILE	N-CA-C	6.75	117.51	110.62
1	2K	161	PHE	CA-C-N	6.75	129.33	120.28
1	2K	161	PHE	C-N-CA	6.75	129.33	120.28
1	2P	111	LEU	CA-C-N	6.75	131.93	121.19
1	2P	111	LEU	C-N-CA	6.75	131.93	121.19
1	2S	5	ASN	OD1-CG-ND2	-6.75	115.85	122.60
1	3g	117	TRP	CA-C-N	6.75	129.88	120.29
1	3g	117	TRP	C-N-CA	6.75	129.88	120.29
1	3l	185	MET	CA-C-N	6.75	129.33	120.28
1	3l	185	MET	C-N-CA	6.75	129.33	120.28
1	3s	36	VAL	CA-C-O	-6.75	113.18	120.47
1	3V	166	ASP	N-CA-C	6.75	118.64	111.28
1	3Z	198	CYS	O-C-N	-6.75	114.87	122.23
1	4J	20	LEU	CA-C-N	6.75	129.66	120.54
1	4J	20	LEU	C-N-CA	6.75	129.66	120.54
1	4N	76	GLU	CA-C-N	6.75	129.33	120.28
1	4N	76	GLU	C-N-CA	6.75	129.33	120.28
1	50	138	LEU	N-CA-CB	6.75	119.80	110.01
1	59	18	ARG	CA-C-N	6.75	129.22	120.44
1	59	18	ARG	C-N-CA	6.75	129.22	120.44
1	5i	24	VAL	CA-C-O	-6.75	113.18	120.47
1	6a	129	ILE	N-CA-C	6.75	116.90	110.42
1	6f	221	VAL	CA-C-O	6.75	128.33	121.58
1	7E	170	LYS	CA-C-N	6.75	129.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7E	170	LYS	C-N-CA	6.75	129.33	120.28
1	7F	173	ARG	CA-C-N	6.75	129.33	120.28
1	7F	173	ARG	C-N-CA	6.75	129.33	120.28
1	7Y	173	ARG	NH1-CZ-NH2	-6.75	110.52	119.30
1	8c	14	ALA	CA-C-N	6.75	129.73	120.35
1	8c	14	ALA	C-N-CA	6.75	129.73	120.35
1	Z	73	ILE	CA-C-N	6.75	129.33	120.28
1	Z	73	ILE	C-N-CA	6.75	129.33	120.28
1	a4	134	ILE	CA-C-O	-6.75	114.01	121.17
1	ab	92	GLU	CB-CG-CD	6.75	124.08	112.60
1	ax	137	GLY	CA-C-N	6.75	131.93	121.19
1	ax	137	GLY	C-N-CA	6.75	131.93	121.19
1	aH	184	TRP	N-CA-C	6.75	118.30	111.07
1	b8	62	HIS	CA-CB-CG	-6.75	107.05	113.80
1	bh	126	VAL	N-CA-CB	6.75	118.91	110.47
1	bI	84	HIS	CA-C-O	-6.75	113.43	120.38
1	bL	37	ILE	CA-C-N	6.75	126.35	119.19
1	bL	37	ILE	C-N-CA	6.75	126.35	119.19
1	1b	191	VAL	N-CA-C	6.75	118.64	112.29
1	cg	42	ALA	N-CA-C	6.75	118.29	111.07
1	cl	32	PHE	N-CA-CB	-6.75	99.41	110.42
1	cy	114	GLN	CA-C-N	6.75	129.71	120.46
1	cy	114	GLN	C-N-CA	6.75	129.71	120.46
1	cD	76	GLU	CA-C-N	6.75	129.65	120.54
1	cD	76	GLU	C-N-CA	6.75	129.65	120.54
1	cE	63	GLN	N-CA-C	6.75	118.72	111.36
1	cE	162	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	1g	229	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	cR	146	SER	CA-C-N	6.75	128.28	119.84
1	cR	146	SER	C-N-CA	6.75	128.28	119.84
1	cX	134	ILE	N-CA-C	6.75	117.51	110.62
1	cY	184	TRP	O-C-N	-6.75	114.96	122.12
1	cZ	38	PRO	CA-C-N	6.75	129.22	120.44
1	cZ	38	PRO	C-N-CA	6.75	129.22	120.44
1	dr	37	ILE	CA-C-O	-6.75	114.17	118.69
1	dv	15	ILE	CA-C-O	6.75	128.74	121.04
1	e0	24	VAL	CA-C-N	6.75	130.57	120.31
1	e0	24	VAL	C-N-CA	6.75	130.57	120.31
1	e7	175	GLU	N-CA-C	6.75	120.27	110.28
1	eH	126	VAL	N-CA-C	6.75	117.51	110.62
1	eS	40	PHE	CA-CB-CG	-6.75	107.05	113.80
1	fl	195	ASN	CA-CB-CG	6.75	119.35	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ft	143	ARG	NH1-CZ-NH2	-6.75	110.52	119.30
1	fA	20	LEU	CA-C-O	6.75	127.71	120.55
1	fL	58	THR	N-CA-CB	6.75	121.80	110.32
1	fU	41	SER	O-C-N	-6.75	114.96	122.12
1	fW	25	LYS	O-C-N	-6.75	114.96	122.12
1	1B	139	ASN	CB-CA-C	-6.75	99.58	110.79
1	Q	96	MET	N-CA-C	6.75	120.16	110.10
1	gu	115	ILE	CA-C-N	6.75	127.43	119.94
1	gu	115	ILE	C-N-CA	6.75	127.43	119.94
1	h0	214	MET	CA-C-O	6.75	127.91	120.82
1	he	195	ASN	CA-C-O	-6.75	113.15	120.17
1	hG	128	GLU	N-CA-C	6.75	118.72	111.36
1	1L	50	GLN	OE1-CD-NE2	-6.75	115.85	122.60
1	i6	18	ARG	NE-CZ-NH2	-6.75	113.12	119.20
1	ig	28	GLU	CA-C-N	6.75	129.22	120.44
1	ig	28	GLU	C-N-CA	6.75	129.22	120.44
1	ig	203	LYS	CA-C-O	-6.75	113.39	120.55
1	io	74	ASN	O-C-N	-6.75	113.97	122.27
1	1R	59	VAL	O-C-N	-6.75	115.78	122.67
1	iL	134	ILE	O-C-N	-6.75	115.32	121.87
1	jx	192	GLN	O-C-N	-6.75	114.97	122.12
1	kj	119	THR	CA-CB-OG1	6.75	119.73	109.60
1	ku	112	GLN	N-CA-C	6.75	119.50	111.33
1	kX	198	CYS	N-CA-C	6.75	118.64	111.28
1	35	128	GLU	CB-CA-C	-6.75	100.01	110.81
1	5c	149	SER	N-CA-CB	6.75	121.90	110.49
1	5m	102	SER	CA-C-N	6.75	129.88	120.29
1	5m	102	SER	C-N-CA	6.75	129.88	120.29
1	5Z	87	HIS	CB-CG-CD2	-6.75	122.42	131.20
1	7i	112	GLN	CA-C-N	6.75	129.88	120.29
1	7i	112	GLN	C-N-CA	6.75	129.88	120.29
1	7w	70	LYS	CA-C-N	6.75	129.32	120.28
1	7w	70	LYS	C-N-CA	6.75	129.32	120.28
1	7E	133	TRP	CB-CG-CD2	6.75	136.25	126.80
1	89	18	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	8C	53	ASN	CA-CB-CG	-6.75	105.85	112.60
1	8D	143	ARG	N-CA-C	6.75	118.64	111.28
1	91	196	PRO	CB-CA-C	6.75	122.70	111.56
1	9I	204	ALA	O-C-N	6.75	129.02	122.07
1	9J	58	THR	CA-C-N	6.75	130.54	120.69
1	9J	58	THR	C-N-CA	6.75	130.54	120.69
1	9U	162	ARG	O-C-N	-6.75	114.32	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	204	ALA	CA-C-N	6.75	130.00	120.28
1	ag	204	ALA	C-N-CA	6.75	130.00	120.28
1	ak	124	ILE	N-CA-C	-6.75	100.21	107.77
1	bg	21	ASN	CA-CB-CG	6.75	119.35	112.60
1	c8	12	HIS	CA-C-O	6.75	128.68	120.92
1	cj	119	THR	O-C-N	-6.75	114.87	122.23
1	1h	9	GLN	CG-CD-OE1	6.75	134.30	120.80
1	dN	135	ILE	O-C-N	-6.75	115.30	121.91
1	em	71	GLU	O-C-N	-6.75	114.45	122.15
1	f0	121	ASN	CB-CG-ND2	6.75	126.53	116.40
1	n	13	GLN	CA-C-O	6.75	128.45	121.23
1	z	18	ARG	CA-C-N	6.75	129.32	120.28
1	z	18	ARG	C-N-CA	6.75	129.32	120.28
1	gg	160	PRO	CA-C-N	6.75	129.32	120.28
1	gg	160	PRO	C-N-CA	6.75	129.32	120.28
1	gX	50	GLN	N-CA-C	6.75	119.50	111.33
1	h5	63	GLN	N-CA-C	6.75	119.47	111.71
1	1I	18	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	hh	194	ALA	CA-C-N	6.75	130.92	120.60
1	hh	194	ALA	C-N-CA	6.75	130.92	120.60
1	1L	74	ASN	O-C-N	-6.75	114.97	122.12
1	iD	146	SER	N-CA-CB	-6.75	104.17	111.66
1	iM	174	ALA	CA-C-O	6.75	127.73	119.97
1	iZ	32	PHE	N-CA-C	-6.75	104.92	113.02
1	ja	75	GLU	N-CA-C	6.75	119.21	111.11
1	ja	199	LYS	CA-C-N	6.75	130.57	120.31
1	ja	199	LYS	C-N-CA	6.75	130.57	120.31
1	jq	106	GLY	N-CA-C	-6.75	106.01	115.32
1	k7	23	TRP	CB-CG-CD2	6.75	136.25	126.80
1	kc	162	ARG	CA-C-N	6.75	129.32	120.28
1	kc	162	ARG	C-N-CA	6.75	129.32	120.28
1	kn	64	ALA	CA-C-N	6.75	129.32	120.28
1	kn	64	ALA	C-N-CA	6.75	129.32	120.28
1	l8	135	ILE	CA-C-N	6.75	129.32	120.28
1	l8	135	ILE	C-N-CA	6.75	129.32	120.28
1	lb	124	ILE	CA-C-O	-6.75	114.80	119.19
1	lg	58	THR	N-CA-C	6.75	120.61	112.38
1	lw	57	ASN	OD1-CG-ND2	-6.75	115.85	122.60
1	2E	99	PRO	CA-C-O	-6.75	113.44	121.67
1	2W	126	VAL	O-C-N	-6.75	115.05	121.87
1	36	15	ILE	N-CA-C	6.75	118.48	109.37
1	3t	113	GLU	O-C-N	-6.75	112.78	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4n	86	VAL	N-CA-C	6.75	117.80	108.89
1	4P	84	HIS	O-C-N	6.75	128.81	121.12
1	58	193	ASN	CA-CB-CG	-6.75	105.85	112.60
1	5c	213	GLU	CA-C-N	6.75	129.21	120.44
1	5c	213	GLU	C-N-CA	6.75	129.21	120.44
1	5f	159	GLU	CA-C-N	6.75	126.73	119.78
1	5f	159	GLU	C-N-CA	6.75	126.73	119.78
1	5C	37	ILE	CA-C-O	-6.75	113.11	118.85
1	5V	66	MET	N-CA-C	6.75	118.64	111.28
1	63	155	GLN	CA-C-O	6.75	128.32	120.49
1	67	124	ILE	N-CA-CB	6.75	118.69	111.20
1	6M	86	VAL	CB-CA-C	-6.75	104.17	111.59
1	7G	28	GLU	N-CA-CB	6.75	120.00	109.94
1	84	33	SER	CA-C-O	-6.75	114.42	120.56
1	8d	195	ASN	CA-C-O	-6.75	113.04	120.87
1	8f	215	MET	CG-SD-CE	-6.75	86.05	100.90
1	8v	91	ILE	O-C-N	-6.75	115.48	122.63
1	9u	167	ARG	NE-CZ-NH2	-6.75	113.13	119.20
1	9F	226	HIS	N-CA-C	6.75	120.61	112.38
1	9P	54	THR	N-CA-CB	6.75	120.15	110.16
1	9R	164	TYR	O-C-N	6.75	129.02	122.07
1	ad	181	VAL	N-CA-C	6.75	117.53	110.72
1	ah	180	GLU	N-CA-C	6.75	118.64	111.28
1	bq	121	ASN	CA-C-O	6.75	126.03	119.55
1	18	84	HIS	CA-C-N	6.75	126.78	119.90
1	18	84	HIS	C-N-CA	6.75	126.78	119.90
1	bI	171	THR	CA-C-N	6.75	129.32	120.28
1	bI	171	THR	C-N-CA	6.75	129.32	120.28
1	bL	112	GLN	N-CA-C	6.75	119.47	111.71
1	bX	143	ARG	NE-CZ-NH2	6.75	125.27	119.20
1	c2	187	GLU	N-CA-C	6.75	119.21	111.11
1	cb	185	MET	CA-C-O	-6.75	112.47	120.10
1	cf	29	GLU	O-C-N	-6.75	113.19	122.30
1	cA	15	ILE	O-C-N	-6.75	115.53	122.75
1	cC	39	MET	CA-C-N	6.75	129.65	120.54
1	cC	39	MET	C-N-CA	6.75	129.65	120.54
1	cM	164	TYR	CA-C-N	6.75	129.31	120.60
1	cM	164	TYR	C-N-CA	6.75	129.31	120.60
1	dm	33	SER	O-C-N	-6.75	114.72	121.27
1	ec	35	GLU	CA-C-O	6.75	127.60	119.10
1	eq	107	THR	N-CA-C	-6.75	103.71	112.68
1	fv	39	MET	O-C-N	-6.75	114.97	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fw	34	PRO	CA-C-N	6.75	130.00	120.28
1	fw	34	PRO	C-N-CA	6.75	130.00	120.28
1	fJ	145	TYR	CA-C-N	6.75	130.99	121.61
1	fJ	145	TYR	C-N-CA	6.75	130.99	121.61
1	fS	12	HIS	ND1-CE1-NE2	6.75	115.15	108.40
1	g5	76	GLU	CA-C-N	6.75	129.32	120.28
1	g5	76	GLU	C-N-CA	6.75	129.32	120.28
1	e	90	PRO	O-C-N	-6.75	114.32	122.89
1	g	141	ILE	CA-CB-CG1	6.75	121.87	110.40
1	Q	209	ALA	N-CA-C	6.75	120.16	110.10
1	S	103	ASP	CA-C-N	6.75	129.71	120.46
1	S	103	ASP	C-N-CA	6.75	129.71	120.46
1	gh	53	ASN	CA-C-N	6.75	129.61	120.44
1	gh	53	ASN	C-N-CA	6.75	129.61	120.44
1	gh	188	THR	CA-C-N	6.75	129.32	120.28
1	gh	188	THR	C-N-CA	6.75	129.32	120.28
1	gp	180	GLU	CA-C-N	6.75	129.70	120.46
1	gp	180	GLU	C-N-CA	6.75	129.70	120.46
1	gp	185	MET	N-CA-C	6.75	118.63	111.28
1	gx	25	LYS	O-C-N	6.75	129.02	122.07
1	gA	90	PRO	CA-C-N	6.75	132.37	123.06
1	gA	90	PRO	C-N-CA	6.75	132.37	123.06
1	gN	174	ALA	O-C-N	-6.75	113.22	122.46
1	h1	77	ALA	CA-C-N	6.75	129.62	120.38
1	h1	77	ALA	C-N-CA	6.75	129.62	120.38
1	h2	183	ASN	CA-C-N	6.75	129.62	120.38
1	h2	183	ASN	C-N-CA	6.75	129.62	120.38
1	h5	15	ILE	O-C-N	-6.75	114.76	122.72
1	1I	33	SER	CA-C-O	-6.75	113.71	120.66
1	1J	223	GLY	O-C-N	-6.75	115.02	121.77
1	hx	229	ARG	NE-CZ-NH1	6.75	128.25	121.50
1	hK	100	ARG	NE-CZ-NH2	-6.75	113.13	119.20
1	hY	48	THR	N-CA-C	-6.75	102.37	110.13
1	ii	150	ILE	N-CA-C	6.75	120.48	111.17
1	ij	79	GLU	N-CA-C	6.75	119.64	111.82
1	ix	120	HIS	CA-CB-CG	6.75	120.55	113.80
1	1Q	123	PRO	CA-C-N	-6.75	117.73	122.59
1	1Q	123	PRO	C-N-CA	-6.75	117.73	122.59
1	iM	99	PRO	N-CA-CB	-6.75	97.31	103.31
1	iR	42	ALA	CB-CA-C	-6.75	100.29	110.88
1	1T	216	THR	N-CA-CB	6.75	120.80	110.61
1	j8	102	SER	CA-C-O	6.75	127.57	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jh	84	HIS	CA-CB-CG	-6.75	107.05	113.80
1	jO	82	ARG	NH1-CZ-NH2	-6.75	110.53	119.30
1	21	164	TYR	CA-C-N	6.75	129.70	120.46
1	21	164	TYR	C-N-CA	6.75	129.70	120.46
1	km	222	GLY	O-C-N	-6.75	115.06	122.68
1	kn	114	GLN	CA-C-N	6.75	129.06	120.56
1	kn	114	GLN	C-N-CA	6.75	129.06	120.56
1	kp	36	VAL	CA-C-N	6.75	126.91	120.43
1	kp	36	VAL	C-N-CA	6.75	126.91	120.43
1	l6	3	VAL	N-CA-C	6.75	118.28	109.58
1	lc	131	LYS	O-C-N	-6.75	114.97	122.12
1	2f	37	ILE	CA-C-N	6.75	127.01	119.32
1	2f	37	ILE	C-N-CA	6.75	127.01	119.32
1	2K	115	ILE	CA-C-N	6.75	127.29	119.94
1	2K	115	ILE	C-N-CA	6.75	127.29	119.94
1	2N	183	ASN	O-C-N	-6.75	115.12	122.07
1	39	127	GLY	CA-C-N	6.75	129.32	120.28
1	39	127	GLY	C-N-CA	6.75	129.32	120.28
1	3e	18	ARG	CA-C-N	6.75	129.32	120.28
1	3e	18	ARG	C-N-CA	6.75	129.32	120.28
1	3f	156	GLY	O-C-N	-6.75	115.02	121.77
1	3h	35	GLU	CA-C-N	6.75	129.70	120.46
1	3h	35	GLU	C-N-CA	6.75	129.70	120.46
1	3l	125	PRO	CA-C-O	-6.75	116.32	121.31
1	3r	158	LYS	O-C-N	-6.75	113.45	122.22
1	3r	166	ASP	N-CA-C	6.75	118.63	111.28
1	3u	3	VAL	O-C-N	-6.75	115.75	122.97
1	3B	51	ASP	CA-C-O	-6.75	113.40	120.55
1	3O	130	TYR	CA-C-N	6.75	129.21	120.44
1	3O	130	TYR	C-N-CA	6.75	129.21	120.44
1	40	10	MET	CG-SD-CE	-6.75	86.06	100.90
1	4i	117	TRP	N-CA-C	6.75	118.29	111.07
1	4P	101	GLY	CA-C-N	6.75	130.56	120.31
1	4P	101	GLY	C-N-CA	6.75	130.56	120.31
1	4W	211	LEU	CA-C-N	6.75	129.32	120.28
1	4W	211	LEU	C-N-CA	6.75	129.32	120.28
1	55	178	SER	N-CA-CB	6.75	119.91	110.26
1	5i	107	THR	N-CA-C	6.75	118.43	111.14
1	60	186	THR	CA-CB-CG2	6.75	121.97	110.50
1	6y	192	GLN	OE1-CD-NE2	-6.75	115.85	122.60
1	6N	177	ALA	N-CA-C	-6.75	98.47	108.79
1	6O	218	CYS	N-CA-C	6.75	120.97	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6R	18	ARG	CA-C-N	6.75	129.21	120.44
1	6R	18	ARG	C-N-CA	6.75	129.21	120.44
1	6X	149	SER	O-C-N	-6.75	115.13	123.36
1	7a	5	ASN	CA-C-O	6.75	127.90	120.82
1	7d	32	PHE	CA-CB-CG	-6.75	107.05	113.80
1	7M	32	PHE	CA-CB-CG	-6.75	107.05	113.80
1	7M	59	VAL	CB-CA-C	6.75	118.97	111.08
1	8v	97	ARG	N-CA-CB	6.75	119.94	109.48
1	8X	197	ASP	CA-CB-CG	-6.75	105.85	112.60
1	93	2	ILE	N-CA-C	6.75	116.43	106.85
1	93	70	LYS	N-CA-C	6.75	118.63	111.28
1	9y	167	ARG	CA-C-N	6.75	129.21	120.44
1	9y	167	ARG	C-N-CA	6.75	129.21	120.44
1	9N	209	ALA	O-C-N	-6.75	114.57	122.87
1	Y	92	GLU	N-CA-C	6.75	119.22	109.84
1	a5	33	SER	N-CA-CB	-6.75	102.78	111.35
1	ae	220	GLY	CA-C-O	6.75	126.13	118.98
1	ak	132	ARG	CA-C-N	6.75	129.32	120.28
1	ak	132	ARG	C-N-CA	6.75	129.32	120.28
1	aA	133	TRP	CA-CB-CG	6.75	126.42	113.60
1	bb	182	LYS	CA-C-N	6.75	129.65	120.54
1	bb	182	LYS	C-N-CA	6.75	129.65	120.54
1	bf	228	ALA	N-CA-C	6.75	120.72	111.54
1	17	104	ILE	O-C-N	-6.75	115.30	121.91
1	bG	97	ARG	NE-CZ-NH2	-6.75	113.13	119.20
1	1b	126	VAL	CA-C-N	6.75	128.84	120.34
1	1b	126	VAL	C-N-CA	6.75	128.84	120.34
1	ca	13	GLN	N-CA-C	6.75	119.33	109.07
1	cc	14	ALA	N-CA-C	6.75	119.01	110.24
1	cw	206	GLY	CA-C-N	6.75	127.33	120.04
1	cw	206	GLY	C-N-CA	6.75	127.33	120.04
1	cV	25	LYS	N-CA-C	6.75	118.29	111.07
1	fE	30	LYS	O-C-N	-6.75	113.06	122.37
1	fU	30	LYS	CA-C-N	6.75	129.62	120.38
1	fU	30	LYS	C-N-CA	6.75	129.62	120.38
1	fV	72	THR	CA-C-O	-6.75	113.40	120.55
1	r	215	MET	N-CA-C	6.75	119.65	111.82
1	s	62	HIS	CE1-NE2-CD2	-6.75	102.25	109.00
1	x	180	GLU	CA-C-O	6.75	127.92	120.63
1	hg	71	GLU	O-C-N	-6.75	115.08	122.09
1	hk	115	ILE	CA-C-N	6.75	127.61	119.99
1	hk	115	ILE	C-N-CA	6.75	127.61	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iw	150	ILE	O-C-N	-6.75	115.06	121.87
1	iB	126	VAL	N-CA-C	6.75	121.88	112.50
1	iY	111	LEU	N-CA-C	6.75	118.29	111.07
1	jB	173	ARG	CA-C-O	-6.75	113.40	120.55
1	jD	201	ILE	O-C-N	-6.75	115.33	121.87
1	kJ	26	VAL	CA-C-N	6.75	130.00	120.42
1	kJ	26	VAL	C-N-CA	6.75	130.00	120.42
1	l0	37	ILE	CA-C-N	6.75	126.34	119.19
1	l0	37	ILE	C-N-CA	6.75	126.34	119.19
1	lh	87	HIS	CG-CD2-NE2	6.75	113.94	107.20
1	lp	213	GLU	CA-C-O	6.75	127.70	120.55
1	lC	81	ASP	O-C-N	-6.75	114.46	122.15
1	lE	181	VAL	CA-C-N	6.75	129.32	120.28
1	lE	181	VAL	C-N-CA	6.75	129.32	120.28
1	2t	2	ILE	N-CA-CB	6.75	119.08	110.99
1	2z	79	GLU	N-CA-C	6.75	118.71	111.36
1	31	33	SER	CA-C-N	6.75	128.27	119.84
1	31	33	SER	C-N-CA	6.75	128.27	119.84
1	3p	130	TYR	CA-C-N	6.75	129.21	120.44
1	3p	130	TYR	C-N-CA	6.75	129.21	120.44
1	3W	65	ALA	CA-C-N	6.75	129.32	120.28
1	3W	65	ALA	C-N-CA	6.75	129.32	120.28
1	4E	62	HIS	CB-CG-CD2	-6.75	122.43	131.20
1	4Q	118	MET	CG-SD-CE	6.75	115.74	100.90
1	9d	179	GLN	O-C-N	-6.75	115.08	122.09
1	9T	197	ASP	CA-CB-CG	-6.75	105.86	112.60
1	a5	114	GLN	CA-C-O	6.75	127.90	120.82
1	ah	16	SER	CA-C-O	6.75	125.76	119.76
1	ai	63	GLN	OE1-CD-NE2	-6.75	115.86	122.60
1	aD	69	LEU	CA-C-N	6.75	129.32	120.28
1	aD	69	LEU	C-N-CA	6.75	129.32	120.28
1	aJ	130	TYR	CA-C-N	6.75	129.62	120.38
1	aJ	130	TYR	C-N-CA	6.75	129.62	120.38
1	aK	33	SER	N-CA-C	-6.75	100.43	108.25
1	bQ	140	LYS	N-CA-C	6.75	119.49	111.33
1	bR	18	ARG	NE-CZ-NH2	6.75	125.27	119.20
1	cX	68	MET	CA-C-N	6.75	129.21	120.44
1	cX	68	MET	C-N-CA	6.75	129.21	120.44
1	dl	117	TRP	O-C-N	6.75	129.02	122.07
1	dB	208	ALA	CA-C-N	6.75	130.33	120.82
1	dB	208	ALA	C-N-CA	6.75	130.33	120.82
1	er	194	ALA	N-CA-CB	6.75	119.96	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eN	180	GLU	N-CA-C	6.75	118.63	111.28
1	gw	190	LEU	CA-C-N	6.74	129.70	120.46
1	gw	190	LEU	C-N-CA	6.74	129.70	120.46
1	1F	130	TYR	CB-CA-C	6.74	122.14	110.68
1	gR	24	VAL	N-CA-CB	-6.74	101.37	110.54
1	gR	98	GLU	O-C-N	-6.74	114.54	121.28
1	1G	125	PRO	CA-C-N	6.74	130.04	120.53
1	1G	125	PRO	C-N-CA	6.74	130.04	120.53
1	1I	223	GLY	O-C-N	-6.74	115.03	121.77
1	hg	219	GLN	O-C-N	-6.74	115.03	123.12
1	hy	142	VAL	N-CA-C	6.74	116.89	110.42
1	hG	148	THR	CA-C-O	6.74	127.34	119.32
1	hH	134	ILE	O-C-N	-6.74	115.30	121.91
1	i3	201	ILE	N-CA-C	6.74	116.89	110.42
1	1S	43	LEU	N-CA-CB	-6.74	99.83	110.22
1	j7	133	TRP	CA-C-N	6.74	129.06	120.56
1	j7	133	TRP	C-N-CA	6.74	129.06	120.56
1	jg	14	ALA	N-CA-C	6.74	120.26	110.28
1	jB	133	TRP	CA-C-N	6.74	129.06	120.56
1	jB	133	TRP	C-N-CA	6.74	129.06	120.56
1	kc	203	LYS	CA-C-N	6.74	129.21	120.44
1	kc	203	LYS	C-N-CA	6.74	129.21	120.44
1	l1	210	THR	O-C-N	-6.74	114.52	122.81
1	lf	223	GLY	CA-C-N	6.74	127.11	119.83
1	lf	223	GLY	C-N-CA	6.74	127.11	119.83
1	lH	48	THR	CA-C-N	6.74	126.34	119.19
1	lH	48	THR	C-N-CA	6.74	126.34	119.19
1	2h	123	PRO	N-CA-C	6.74	126.36	112.47
1	2m	82	ARG	CA-C-N	6.74	129.32	120.28
1	2m	82	ARG	C-N-CA	6.74	129.32	120.28
1	32	120	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	36	211	LEU	CA-C-N	6.74	129.32	120.28
1	36	211	LEU	C-N-CA	6.74	129.32	120.28
1	38	27	VAL	CA-C-N	6.74	130.23	120.38
1	38	27	VAL	C-N-CA	6.74	130.23	120.38
1	3i	159	GLU	CA-C-N	6.74	126.78	119.90
1	3i	159	GLU	C-N-CA	6.74	126.78	119.90
1	3k	37	ILE	CA-C-N	6.74	126.53	119.05
1	3k	37	ILE	C-N-CA	6.74	126.53	119.05
1	3C	27	VAL	CA-C-N	6.74	129.21	120.44
1	3C	27	VAL	C-N-CA	6.74	129.21	120.44
1	3Y	103	ASP	N-CA-C	6.74	118.63	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4B	134	ILE	CA-C-N	6.74	129.70	120.46
1	4B	134	ILE	C-N-CA	6.74	129.70	120.46
1	4F	162	ARG	NE-CZ-NH2	-6.74	113.13	119.20
1	4L	47	ALA	O-C-N	-6.74	115.05	123.01
1	4M	135	ILE	CB-CA-C	6.74	121.24	112.14
1	4N	24	VAL	N-CA-CB	6.74	117.70	110.62
1	6c	98	GLU	CA-C-O	-6.74	113.16	120.17
1	6i	30	LYS	CB-CA-C	-6.74	100.31	109.28
1	6j	135	ILE	CB-CA-C	-6.74	103.04	112.14
1	6q	221	VAL	CA-C-N	6.74	128.15	120.53
1	6q	221	VAL	C-N-CA	6.74	128.15	120.53
1	6t	124	ILE	N-CA-C	-6.74	100.38	107.60
1	7e	188	THR	CA-C-N	6.74	129.32	120.28
1	7e	188	THR	C-N-CA	6.74	129.32	120.28
1	7u	116	GLY	CA-C-N	6.74	129.64	120.54
1	7u	116	GLY	C-N-CA	6.74	129.64	120.54
1	7y	128	GLU	N-CA-C	6.74	118.63	111.28
1	7Q	84	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	8C	64	ALA	O-C-N	-6.74	113.98	122.27
1	8F	46	GLY	CA-C-N	6.74	130.41	120.90
1	8F	46	GLY	C-N-CA	6.74	130.41	120.90
1	8Y	167	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	9A	115	ILE	CA-C-N	6.74	127.42	120.00
1	9A	115	ILE	C-N-CA	6.74	127.42	120.00
1	9B	204	ALA	N-CA-C	6.74	118.63	111.28
1	9Q	120	HIS	N-CA-CB	6.74	119.88	110.17
1	ad	40	PHE	N-CA-C	6.74	119.49	111.33
1	aD	84	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	bw	48	THR	O-C-N	-6.74	112.57	121.34
1	c2	50	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	c2	200	THR	N-CA-C	6.74	118.63	111.28
1	cQ	209	ALA	O-C-N	-6.74	114.42	122.65
1	cR	167	ARG	NH1-CZ-NH2	-6.74	110.53	119.30
1	1h	185	MET	CA-C-N	6.74	129.21	120.44
1	1h	185	MET	C-N-CA	6.74	129.21	120.44
1	d0	154	ARG	N-CA-CB	6.74	121.84	111.46
1	da	183	ASN	CA-C-N	6.74	129.21	120.44
1	da	183	ASN	C-N-CA	6.74	129.21	120.44
1	1j	140	LYS	CA-C-N	6.74	129.13	120.70
1	1j	140	LYS	C-N-CA	6.74	129.13	120.70
1	dy	188	THR	CA-C-N	6.74	129.32	120.28
1	dy	188	THR	C-N-CA	6.74	129.32	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dZ	14	ALA	N-CA-C	6.74	120.01	110.50
1	e0	79	GLU	N-CA-C	6.74	119.49	111.33
1	e1	161	PHE	CA-C-N	6.74	129.65	120.54
1	e1	161	PHE	C-N-CA	6.74	129.65	120.54
1	e1	209	ALA	N-CA-C	6.74	120.15	110.24
1	ev	221	VAL	CA-C-O	6.74	125.25	119.38
1	fg	51	ASP	CA-C-N	6.74	129.32	120.28
1	fg	51	ASP	C-N-CA	6.74	129.32	120.28
1	fn	227	LYS	N-CA-C	6.74	119.50	109.59
1	fD	213	GLU	N-CA-C	6.74	118.29	111.07
1	1y	52	LEU	N-CA-C	6.74	118.28	111.07
1	e	21	ASN	OD1-CG-ND2	-6.74	115.86	122.60
1	N	112	GLN	N-CA-C	6.74	119.20	111.11
1	S	66	MET	CA-C-N	6.74	129.31	120.28
1	S	66	MET	C-N-CA	6.74	129.31	120.28
1	1C	84	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	gj	189	LEU	O-C-N	-6.74	113.47	122.23
1	gz	223	GLY	CA-C-N	6.74	128.27	119.84
1	gz	223	GLY	C-N-CA	6.74	128.27	119.84
1	h3	15	ILE	CA-CB-CG1	6.74	121.86	110.40
1	h8	19	THR	O-C-N	-6.74	113.98	122.27
1	hj	159	GLU	N-CA-C	6.74	120.16	109.64
1	j9	47	ALA	CA-C-O	6.74	128.70	121.55
1	lF	162	ARG	NE-CZ-NH2	-6.74	113.13	119.20
1	lI	155	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	2d	17	PRO	CA-C-N	6.74	129.21	120.44
1	2d	17	PRO	C-N-CA	6.74	129.21	120.44
1	2X	49	PRO	CA-C-N	6.74	129.31	120.28
1	2X	49	PRO	C-N-CA	6.74	129.31	120.28
1	3B	191	VAL	N-CA-C	6.74	117.50	110.62
1	41	84	HIS	CB-CG-CD2	-6.74	122.44	131.20
1	4t	225	GLY	CA-C-N	6.74	131.70	122.19
1	4t	225	GLY	C-N-CA	6.74	131.70	122.19
1	4G	3	VAL	CA-C-O	6.74	127.47	120.39
1	5R	50	GLN	O-C-N	-6.74	114.46	122.15
1	6Z	145	TYR	N-CA-C	6.74	119.43	110.53
1	7k	214	MET	CA-C-N	6.74	129.31	120.28
1	7k	214	MET	C-N-CA	6.74	129.31	120.28
1	7U	179	GLN	CA-C-O	6.74	127.72	119.97
1	7W	37	ILE	CA-C-N	6.74	126.44	119.56
1	7W	37	ILE	C-N-CA	6.74	126.44	119.56
1	8z	20	LEU	CA-C-N	6.74	129.64	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	20	LEU	C-N-CA	6.74	129.64	120.54
1	a3	195	ASN	CA-C-O	-6.74	113.16	120.17
1	aI	141	ILE	CA-C-N	6.74	129.60	120.77
1	aI	141	ILE	C-N-CA	6.74	129.60	120.77
1	b0	77	ALA	N-CA-CB	-6.74	100.21	110.12
1	by	228	ALA	O-C-N	-6.74	114.66	122.89
1	e8	67	GLN	CA-C-O	6.74	127.70	120.55
1	eN	162	ARG	CA-C-O	-6.74	113.40	120.55
1	fn	21	ASN	CA-CB-CG	6.74	119.34	112.60
1	c	222	GLY	CA-C-N	6.74	132.46	121.87
1	c	222	GLY	C-N-CA	6.74	132.46	121.87
1	e	101	GLY	CA-C-N	6.74	130.56	120.31
1	e	101	GLY	C-N-CA	6.74	130.56	120.31
1	J	180	GLU	N-CA-C	6.74	118.63	111.28
1	N	107	THR	N-CA-C	6.74	118.71	111.36
1	O	211	LEU	CA-C-N	6.74	129.64	120.54
1	O	211	LEU	C-N-CA	6.74	129.64	120.54
1	g9	15	ILE	O-C-N	-6.74	114.77	122.72
1	gr	53	ASN	CA-C-N	6.74	129.20	120.44
1	gr	53	ASN	C-N-CA	6.74	129.20	120.44
1	gt	108	THR	CA-C-O	6.74	127.44	119.48
1	gJ	120	HIS	CA-CB-CG	6.74	120.54	113.80
1	gX	162	ARG	NE-CZ-NH2	-6.74	113.13	119.20
1	h6	183	ASN	CA-C-N	6.74	129.20	120.44
1	h6	183	ASN	C-N-CA	6.74	129.20	120.44
1	hK	201	ILE	N-CA-C	6.74	117.50	110.62
1	hM	100	ARG	NH1-CZ-NH2	-6.74	110.54	119.30
1	hQ	16	SER	CA-C-N	6.74	126.25	119.24
1	hQ	16	SER	C-N-CA	6.74	126.25	119.24
1	1M	226	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	iv	14	ALA	O-C-N	-6.74	114.19	122.82
1	ix	169	TYR	O-C-N	-6.74	114.97	122.12
1	iH	97	ARG	NH1-CZ-NH2	6.74	128.06	119.30
1	j0	18	ARG	NH1-CZ-NH2	-6.74	110.54	119.30
1	jS	63	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	jT	18	ARG	N-CA-C	6.74	118.71	111.36
1	kc	201	ILE	N-CA-C	6.74	117.50	110.62
1	kf	114	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	kj	161	PHE	CA-C-N	6.74	129.61	120.38
1	kj	161	PHE	C-N-CA	6.74	129.61	120.38
1	kr	111	LEU	CA-C-N	6.74	129.62	120.38
1	kr	111	LEU	C-N-CA	6.74	129.62	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	39	MET	CA-C-N	6.74	129.64	120.54
1	kC	39	MET	C-N-CA	6.74	129.64	120.54
1	kF	12	HIS	N-CA-C	6.74	120.00	110.23
1	kG	156	GLY	CA-C-N	6.74	128.26	119.84
1	kG	156	GLY	C-N-CA	6.74	128.26	119.84
1	lf	229	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	lz	18	ARG	NH1-CZ-NH2	-6.74	110.54	119.30
1	lE	181	VAL	CA-CB-CG1	6.74	121.86	110.40
1	2c	21	ASN	CA-CB-CG	6.74	119.34	112.60
1	35	112	GLN	CA-C-O	-6.74	113.74	120.82
1	36	159	GLU	CA-C-N	6.74	126.92	120.31
1	36	159	GLU	C-N-CA	6.74	126.92	120.31
1	37	157	PRO	N-CA-C	6.74	122.43	113.40
1	3f	141	ILE	N-CA-C	6.74	117.44	110.36
1	3g	48	THR	CA-C-O	-6.74	114.53	120.60
1	3m	21	ASN	CA-C-N	6.74	129.31	120.28
1	3m	21	ASN	C-N-CA	6.74	129.31	120.28
1	3u	146	SER	N-CA-CB	6.74	121.97	109.37
1	4F	137	GLY	O-C-N	-6.74	115.65	122.19
1	4O	16	SER	CA-C-N	6.74	126.34	119.19
1	4O	16	SER	C-N-CA	6.74	126.34	119.19
1	4W	164	TYR	CA-C-N	6.74	129.69	120.46
1	4W	164	TYR	C-N-CA	6.74	129.69	120.46
1	5R	81	ASP	N-CA-CB	6.74	119.78	110.01
1	6c	180	GLU	CB-CA-C	-6.74	100.03	110.81
1	6g	205	LEU	N-CA-C	6.74	118.63	111.28
1	6h	106	GLY	CA-C-O	6.74	125.62	118.95
1	6t	74	ASN	CA-CB-CG	6.74	119.34	112.60
1	7p	137	GLY	CA-C-N	6.74	129.31	120.28
1	7p	137	GLY	C-N-CA	6.74	129.31	120.28
1	8w	47	ALA	N-CA-C	6.74	120.25	110.28
1	8A	95	GLN	N-CA-C	6.74	120.14	110.10
1	94	5	ASN	CA-C-N	6.74	130.93	120.75
1	94	5	ASN	C-N-CA	6.74	130.93	120.75
1	9o	114	GLN	CA-C-N	6.74	130.03	120.53
1	9o	114	GLN	C-N-CA	6.74	130.03	120.53
1	9s	216	THR	CB-CA-C	-6.74	99.17	110.56
1	9u	49	PRO	CA-C-N	6.74	129.20	120.44
1	9u	49	PRO	C-N-CA	6.74	129.20	120.44
1	9C	169	TYR	N-CA-C	6.74	118.71	111.36
1	9I	87	HIS	N-CA-C	6.74	120.00	110.23
1	9L	143	ARG	N-CA-C	6.74	118.63	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a7	54	THR	N-CA-C	6.74	118.63	111.28
1	ag	165	VAL	N-CA-C	6.74	117.49	110.62
1	aP	134	ILE	CA-C-N	6.74	129.05	120.56
1	aP	134	ILE	C-N-CA	6.74	129.05	120.56
1	bt	39	MET	CA-C-N	6.74	129.55	120.65
1	bt	39	MET	C-N-CA	6.74	129.55	120.65
1	1d	108	THR	N-CA-C	-6.74	104.63	112.92
1	cK	62	HIS	ND1-CE1-NE2	6.74	115.14	108.40
1	d8	188	THR	O-C-N	-6.74	115.13	122.07
1	1l	32	PHE	O-C-N	-6.74	115.34	123.29
1	dI	23	TRP	CD2-CE2-CZ2	-6.74	115.66	122.40
1	dK	18	ARG	NE-CZ-NH2	-6.74	113.13	119.20
1	en	177	ALA	O-C-N	-6.74	116.21	123.42
1	ev	116	GLY	CA-C-O	-6.74	114.19	120.80
1	ev	134	ILE	O-C-N	-6.74	115.33	121.87
1	ez	101	GLY	CA-C-O	6.74	127.69	120.75
1	eC	194	ALA	N-CA-CB	-6.74	100.72	110.36
1	eE	91	ILE	CA-C-N	6.74	130.28	120.51
1	eE	91	ILE	C-N-CA	6.74	130.28	120.51
1	eK	28	GLU	N-CA-C	6.74	118.63	111.28
1	eM	183	ASN	OD1-CG-ND2	-6.74	115.86	122.60
1	1t	68	MET	CA-C-N	6.74	129.20	120.44
1	1t	68	MET	C-N-CA	6.74	129.20	120.44
1	fl	70	LYS	CA-C-N	6.74	129.31	120.28
1	fl	70	LYS	C-N-CA	6.74	129.31	120.28
1	c	191	VAL	N-CA-C	6.74	116.87	110.53
1	y	217	ALA	N-CA-C	6.74	118.63	111.28
1	M	23	TRP	N-CA-C	6.74	118.28	111.07
1	R	146	SER	O-C-N	-6.74	113.57	121.32
1	gk	151	LEU	O-C-N	6.74	130.56	122.27
1	gp	111	LEU	N-CA-C	6.74	118.63	111.28
1	gI	142	VAL	CA-C-O	6.74	128.28	121.27
1	gK	100	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	gZ	15	ILE	O-C-N	-6.74	115.49	122.63
1	h0	16	SER	CA-C-O	-6.74	112.97	120.25
1	h7	169	TYR	CB-CG-CD1	-6.74	110.69	120.80
1	h7	169	TYR	N-CA-C	6.74	118.62	111.28
1	hc	57	ASN	O-C-N	-6.74	114.98	122.12
1	hq	184	TRP	CA-C-N	6.74	129.31	120.28
1	hq	184	TRP	C-N-CA	6.74	129.31	120.28
1	iB	120	HIS	ND1-CE1-NE2	6.74	115.14	108.40
1	iF	102	SER	CB-CA-C	-6.74	99.61	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iK	83	LEU	N-CA-C	6.74	118.71	111.36
1	js	159	GLU	CA-C-O	-6.74	114.33	119.32
1	kd	66	MET	N-CA-C	6.74	118.71	111.36
1	ki	148	THR	CA-C-N	6.74	133.43	122.65
1	ki	148	THR	C-N-CA	6.74	133.43	122.65
1	21	84	HIS	CA-C-O	-6.74	112.55	119.49
1	kA	166	ASP	N-CA-CB	-6.74	100.24	110.01
1	kU	48	THR	CA-C-N	6.74	128.26	119.84
1	kU	48	THR	C-N-CA	6.74	128.26	119.84
1	kV	114	GLN	N-CA-C	6.74	118.28	111.07
1	l9	47	ALA	N-CA-C	6.74	120.25	110.28
1	lc	192	GLN	N-CA-CB	6.74	120.13	110.16
1	lj	99	PRO	N-CA-C	6.74	121.08	110.50
1	lt	12	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	lz	76	GLU	N-CA-C	6.74	118.28	111.07
1	lM	230	VAL	CA-CB-CG1	6.74	121.86	110.40
1	2c	135	ILE	CA-C-N	6.74	129.20	120.44
1	2c	135	ILE	C-N-CA	6.74	129.20	120.44
1	2S	67	GLN	N-CA-C	6.74	118.63	111.28
1	31	132	ARG	N-CA-C	6.74	118.62	111.28
1	35	209	ALA	N-CA-C	6.74	119.52	110.35
1	3p	30	LYS	CA-C-O	6.74	127.13	119.18
1	4R	215	MET	O-C-N	-6.74	114.98	122.12
1	5w	131	LYS	O-C-N	-6.74	114.98	122.12
1	5C	141	ILE	N-CA-CB	6.74	119.70	110.54
1	5C	143	ARG	NE-CZ-NH2	-6.74	113.14	119.20
1	5W	215	MET	CA-C-O	6.74	127.69	120.55
1	61	186	THR	O-C-N	-6.74	114.98	122.12
1	6i	49	PRO	CB-CA-C	6.74	122.68	111.56
1	6T	95	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	71	84	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	7l	18	ARG	NE-CZ-NH2	6.74	125.27	119.20
1	7o	226	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	7L	47	ALA	O-C-N	-6.74	115.35	122.96
1	7X	202	LEU	O-C-N	-6.74	115.13	122.07
1	8e	184	TRP	O-C-N	-6.74	114.98	122.12
1	8h	182	LYS	CB-CA-C	6.74	121.97	110.79
1	8m	166	ASP	N-CA-C	6.74	118.62	111.28
1	8G	23	TRP	O-C-N	-6.74	114.81	122.09
1	8L	117	TRP	CA-C-O	6.74	127.56	120.42
1	9b	75	GLU	CA-C-N	6.74	129.20	120.44
1	9b	75	GLU	C-N-CA	6.74	129.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9g	175	GLU	CA-C-O	6.74	128.60	121.19
1	9m	144	MET	CG-SD-CE	-6.74	86.07	100.90
1	9u	148	THR	N-CA-C	-6.74	98.41	108.99
1	9G	191	VAL	N-CA-C	6.74	116.86	110.53
1	9K	143	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	9X	105	ALA	O-C-N	-6.74	113.16	122.46
1	a4	101	GLY	CA-C-N	6.74	129.86	120.29
1	a4	101	GLY	C-N-CA	6.74	129.86	120.29
1	a8	148	THR	O-C-N	-6.74	114.04	122.19
1	ad	219	GLN	OE1-CD-NE2	6.74	129.34	122.60
1	aq	195	ASN	OD1-CG-ND2	-6.74	115.86	122.60
1	12	67	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	aW	74	ASN	N-CA-C	6.74	118.28	111.07
1	bl	116	GLY	O-C-N	-6.74	115.72	122.19
1	bo	58	THR	CA-C-O	6.74	127.71	120.10
1	cc	12	HIS	N-CA-C	6.74	120.00	110.23
1	cm	73	ILE	CB-CA-C	-6.74	103.04	112.14
1	cm	154	ARG	NE-CZ-NH2	6.74	125.27	119.20
1	co	171	THR	CA-C-O	6.74	127.69	120.55
1	cq	143	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	cA	182	LYS	CA-C-N	6.74	129.31	120.28
1	cA	182	LYS	C-N-CA	6.74	129.31	120.28
1	cF	125	PRO	CA-C-N	6.74	130.03	120.53
1	cF	125	PRO	C-N-CA	6.74	130.03	120.53
1	d4	195	ASN	CB-CA-C	6.74	120.17	109.52
1	d4	221	VAL	CA-C-O	-6.74	112.79	120.74
1	db	184	TRP	N-CA-C	6.74	118.28	111.07
1	dd	18	ARG	N-CA-C	6.74	118.42	111.14
1	df	71	GLU	CA-C-N	6.74	129.61	120.44
1	df	71	GLU	C-N-CA	6.74	129.61	120.44
1	dg	88	ALA	N-CA-C	-6.74	105.34	113.97
1	dh	86	VAL	CA-C-O	6.74	128.33	120.71
1	dN	72	THR	CB-CA-C	-6.74	99.39	110.85
1	1s	226	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	eM	113	GLU	N-CA-C	6.74	118.62	111.28
1	eU	84	HIS	ND1-CE1-NE2	6.74	115.14	108.40
1	fh	114	GLN	CB-CA-C	-6.74	100.30	110.88
1	fk	100	ARG	CA-C-N	6.74	127.60	119.99
1	fk	100	ARG	C-N-CA	6.74	127.60	119.99
1	fR	48	THR	O-C-N	-6.74	113.06	121.21
1	g0	205	LEU	CA-C-N	6.74	132.45	121.87
1	g0	205	LEU	C-N-CA	6.74	132.45	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	74	ASN	CA-CB-CG	-6.74	105.86	112.60
1	2	16	SER	N-CA-C	6.74	118.20	109.64
1	P	132	ARG	CA-C-N	6.74	129.20	120.44
1	P	132	ARG	C-N-CA	6.74	129.20	120.44
1	1M	146	SER	CA-C-N	6.74	126.77	119.90
1	1M	146	SER	C-N-CA	6.74	126.77	119.90
1	iT	195	ASN	O-C-N	-6.74	113.57	121.32
1	iX	113	GLU	CA-C-N	6.74	129.20	120.44
1	iX	113	GLU	C-N-CA	6.74	129.20	120.44
1	jy	174	ALA	O-C-N	-6.74	113.98	122.27
1	jD	123	PRO	CA-C-O	-6.74	113.53	121.95
1	jG	62	HIS	CA-C-O	-6.74	113.26	121.28
1	kg	57	ASN	CA-C-N	6.74	129.31	120.28
1	kg	57	ASN	C-N-CA	6.74	129.31	120.28
1	23	63	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	kZ	197	ASP	CA-C-N	6.74	129.86	120.29
1	kZ	197	ASP	C-N-CA	6.74	129.86	120.29
1	26	108	THR	N-CA-C	6.74	121.51	113.16
1	lB	35	GLU	N-CA-CB	-6.74	99.10	110.49
1	lB	137	GLY	CA-C-N	6.74	129.31	120.28
1	lB	137	GLY	C-N-CA	6.74	129.31	120.28
1	2K	83	LEU	CA-C-O	6.74	127.95	119.12
1	3w	182	LYS	CA-C-O	6.74	127.71	120.10
1	4a	139	ASN	CA-C-O	-6.74	113.41	120.55
1	4g	39	MET	N-CA-C	6.74	118.62	111.28
1	4w	54	THR	CA-C-N	6.74	129.20	120.44
1	4w	54	THR	C-N-CA	6.74	129.20	120.44
1	4B	12	HIS	CB-CG-CD2	-6.74	122.44	131.20
1	4E	217	ALA	N-CA-C	6.74	119.42	110.53
1	4S	99	PRO	CA-C-N	6.74	133.01	121.29
1	4S	99	PRO	C-N-CA	6.74	133.01	121.29
1	5I	152	ASP	CA-CB-CG	6.74	119.34	112.60
1	5N	136	LEU	O-C-N	-6.74	114.98	122.12
1	69	84	HIS	ND1-CE1-NE2	6.74	115.14	108.40
1	6Q	15	ILE	CB-CA-C	6.74	122.30	111.32
1	71	21	ASN	CA-C-O	-6.74	113.28	120.42
1	7k	183	ASN	CA-C-N	6.74	129.31	120.28
1	7k	183	ASN	C-N-CA	6.74	129.31	120.28
1	8K	183	ASN	OD1-CG-ND2	-6.74	115.86	122.60
1	8O	28	GLU	CA-C-N	6.74	129.86	120.29
1	8O	28	GLU	C-N-CA	6.74	129.86	120.29
1	8Z	76	GLU	CA-C-O	6.74	127.69	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9f	120	HIS	CB-CA-C	6.74	123.49	109.68
1	9A	213	GLU	N-CA-C	6.74	118.42	111.14
1	av	229	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	bm	55	MET	O-C-N	-6.74	115.13	122.07
1	bJ	18	ARG	NE-CZ-NH2	-6.74	113.14	119.20
1	cJ	40	PHE	CA-C-O	6.74	127.69	120.55
1	dY	40	PHE	CA-C-O	-6.74	113.28	120.42
1	e1	121	ASN	CB-CA-C	6.74	119.56	110.13
1	e2	4	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	e7	59	VAL	N-CA-C	6.74	118.13	109.30
1	eg	142	VAL	N-CA-CB	6.74	118.43	110.55
1	ek	59	VAL	N-CA-C	6.74	116.89	110.42
1	en	66	MET	N-CA-C	6.74	118.62	111.28
1	es	230	VAL	CA-C-O	6.74	128.53	121.59
1	fY	217	ALA	N-CA-C	6.74	119.42	110.53
1	i	180	GLU	N-CA-C	6.74	118.62	111.28
1	9	210	THR	CA-CB-OG1	6.74	119.70	109.60
1	gd	123	PRO	CA-C-N	-6.74	116.02	123.43
1	gd	123	PRO	C-N-CA	-6.74	116.02	123.43
1	go	160	PRO	N-CA-C	6.74	121.82	111.11
1	gt	139	ASN	OD1-CG-ND2	6.74	129.34	122.60
1	gB	102	SER	CA-C-N	6.74	129.20	120.44
1	gB	102	SER	C-N-CA	6.74	129.20	120.44
1	gF	227	LYS	CA-C-N	6.74	130.92	120.75
1	gF	227	LYS	C-N-CA	6.74	130.92	120.75
1	1F	68	MET	CG-SD-CE	-6.74	86.08	100.90
1	gM	161	PHE	CA-C-N	6.74	129.31	120.28
1	gM	161	PHE	C-N-CA	6.74	129.31	120.28
1	gW	124	ILE	O-C-N	-6.74	113.42	121.10
1	hb	62	HIS	N-CA-C	6.74	120.69	111.39
1	hq	182	LYS	N-CA-CB	6.74	120.02	110.12
1	hO	110	THR	CA-C-N	6.74	130.15	120.79
1	hO	110	THR	C-N-CA	6.74	130.15	120.79
1	i3	6	LEU	N-CA-C	6.74	121.09	113.01
1	i3	134	ILE	O-C-N	-6.74	115.31	121.91
1	j8	153	ILE	CB-CA-C	6.74	120.29	111.53
1	jD	183	ASN	CA-C-N	6.74	129.19	120.44
1	jD	183	ASN	C-N-CA	6.74	129.19	120.44
1	jL	110	THR	O-C-N	-6.74	115.17	122.85
1	kp	17	PRO	N-CA-CB	-6.74	96.18	103.25
1	kI	27	VAL	CA-C-N	6.74	129.31	120.28
1	kI	27	VAL	C-N-CA	6.74	129.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kM	65	ALA	N-CA-C	6.74	119.48	111.33
1	lr	178	SER	O-C-N	-6.74	114.53	122.81
1	lw	195	ASN	CA-C-N	6.74	126.88	119.87
1	lw	195	ASN	C-N-CA	6.74	126.88	119.87
1	lM	13	GLN	O-C-N	-6.74	115.28	123.30
1	2l	111	LEU	CA-C-N	6.74	129.19	120.44
1	2l	111	LEU	C-N-CA	6.74	129.19	120.44
1	2z	191	VAL	CA-C-N	6.74	129.31	120.28
1	2z	191	VAL	C-N-CA	6.74	129.31	120.28
1	3s	76	GLU	N-CA-C	6.74	118.62	111.28
1	3z	181	VAL	N-CA-C	6.74	116.89	110.42
1	3B	32	PHE	CA-CB-CG	-6.74	107.06	113.80
1	3M	86	VAL	N-CA-C	6.74	118.28	108.58
1	3X	84	HIS	CG-CD2-NE2	6.74	113.94	107.20
1	48	17	PRO	N-CA-CB	6.74	110.22	103.48
1	4x	74	ASN	N-CA-C	6.74	118.28	111.07
1	5a	66	MET	N-CA-CB	6.74	120.13	110.16
1	5r	127	GLY	O-C-N	-6.74	115.66	122.19
1	5D	120	HIS	CE1-NE2-CD2	-6.74	102.26	109.00
1	5E	214	MET	CG-SD-CE	-6.74	86.08	100.90
1	6L	21	ASN	CA-CB-CG	6.74	119.34	112.60
1	6S	74	ASN	OD1-CG-ND2	-6.74	115.86	122.60
1	7f	40	PHE	CA-CB-CG	-6.74	107.06	113.80
1	7p	161	PHE	CA-CB-CG	-6.74	107.06	113.80
1	7y	68	MET	CA-C-N	6.74	129.60	120.44
1	7y	68	MET	C-N-CA	6.74	129.60	120.44
1	7M	39	MET	CG-SD-CE	-6.74	86.08	100.90
1	88	182	LYS	CA-C-N	6.74	129.31	120.28
1	88	182	LYS	C-N-CA	6.74	129.31	120.28
1	8g	36	VAL	N-CA-C	6.74	116.89	110.42
1	8G	82	ARG	NE-CZ-NH1	6.74	128.24	121.50
1	9b	41	SER	O-C-N	6.74	129.26	122.12
1	9y	184	TRP	CA-C-O	6.74	127.89	120.82
1	9B	12	HIS	O-C-N	-6.74	115.28	123.30
1	11	166	ASP	N-CA-C	6.74	118.31	110.97
1	aE	70	LYS	N-CA-C	6.74	118.62	111.28
1	aE	166	ASP	CA-CB-CG	6.74	119.33	112.60
1	aL	129	ILE	N-CA-CB	6.74	118.43	110.55
1	aW	183	ASN	CA-C-O	6.74	127.89	120.82
1	b5	192	GLN	CA-C-O	6.74	128.11	120.90
1	bb	40	PHE	CA-CB-CG	6.74	120.54	113.80
1	bc	37	ILE	N-CA-C	6.74	120.43	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bn	174	ALA	CA-C-O	6.74	127.74	119.79
1	bJ	219	GLN	CA-C-O	6.74	128.60	121.19
1	bP	103	ASP	CB-CA-C	-6.74	97.74	110.67
1	bZ	108	THR	CA-CB-OG1	6.74	119.70	109.60
1	c8	195	ASN	CA-CB-CG	-6.74	105.86	112.60
1	cb	95	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	cf	81	ASP	O-C-N	-6.74	113.40	122.43
1	cA	34	PRO	N-CA-CB	6.74	110.67	103.39
1	cR	212	GLU	CA-C-N	6.74	129.31	120.28
1	cR	212	GLU	C-N-CA	6.74	129.31	120.28
1	1j	103	ASP	N-CA-C	6.74	118.62	111.28
1	ef	211	LEU	N-CA-C	6.74	125.14	110.80
1	eo	33	SER	CA-C-O	-6.74	113.23	119.76
1	er	4	GLN	OE1-CD-NE2	-6.74	115.86	122.60
1	ev	209	ALA	N-CA-C	6.74	119.74	110.24
1	eJ	133	TRP	CB-CG-CD1	6.74	137.00	126.90
1	fq	196	PRO	CA-C-N	6.74	129.61	120.38
1	fq	196	PRO	C-N-CA	6.74	129.61	120.38
1	fI	135	ILE	CA-C-O	6.74	127.95	120.95
1	fO	6	LEU	N-CA-C	6.74	118.62	111.28
1	fP	166	ASP	CA-CB-CG	6.74	119.34	112.60
1	fV	37	ILE	N-CA-CB	-6.74	105.20	110.45
1	e	34	PRO	N-CA-C	6.74	126.35	112.47
1	o	213	GLU	CA-C-N	6.74	129.31	120.28
1	o	213	GLU	C-N-CA	6.74	129.31	120.28
1	A	67	GLN	CA-C-N	6.74	129.31	120.28
1	A	67	GLN	C-N-CA	6.74	129.31	120.28
1	6	70	LYS	CA-C-O	-6.74	113.41	120.55
1	1D	180	GLU	O-C-N	-6.73	114.98	122.12
1	gC	128	GLU	CA-C-N	6.73	129.29	120.60
1	gC	128	GLU	C-N-CA	6.73	129.29	120.60
1	hr	32	PHE	CB-CA-C	6.73	121.92	110.81
1	hW	115	ILE	CA-C-O	-6.73	114.03	121.17
1	hZ	18	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	iJ	166	ASP	CA-CB-CG	6.73	119.33	112.60
1	iO	96	MET	CA-C-N	6.73	130.92	120.75
1	iO	96	MET	C-N-CA	6.73	130.92	120.75
1	1Y	137	GLY	O-C-N	-6.73	115.72	122.18
1	kA	143	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	ld	84	HIS	CA-C-N	6.73	128.26	119.84
1	ld	84	HIS	C-N-CA	6.73	128.26	119.84
1	lw	103	ASP	CA-C-N	6.73	129.69	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lw	103	ASP	C-N-CA	6.73	129.69	120.46
1	2q	185	MET	N-CA-C	6.73	119.48	111.33
1	36	23	TRP	CB-CG-CD1	-6.73	116.80	126.90
1	3h	201	ILE	CA-C-N	6.73	129.30	120.28
1	3h	201	ILE	C-N-CA	6.73	129.30	120.28
1	3F	125	PRO	CA-C-N	6.73	130.03	120.53
1	3F	125	PRO	C-N-CA	6.73	130.03	120.53
1	4h	200	THR	N-CA-C	6.73	118.62	111.28
1	4t	64	ALA	CA-C-N	6.73	129.19	120.44
1	4t	64	ALA	C-N-CA	6.73	129.19	120.44
1	4H	87	HIS	CA-CB-CG	6.73	120.53	113.80
1	5q	183	ASN	CA-CB-CG	-6.73	105.87	112.60
1	6t	141	ILE	O-C-N	-6.73	115.21	121.94
1	6u	190	LEU	N-CA-C	6.73	118.62	111.28
1	6T	33	SER	O-C-N	-6.73	115.12	121.72
1	7h	201	ILE	N-CA-C	-6.73	103.95	110.42
1	7Z	114	GLN	CA-C-N	6.73	129.04	120.56
1	7Z	114	GLN	C-N-CA	6.73	129.04	120.56
1	8G	206	GLY	CA-C-N	6.73	126.44	119.64
1	8G	206	GLY	C-N-CA	6.73	126.44	119.64
1	8M	5	ASN	CA-CB-CG	6.73	119.33	112.60
1	8O	71	GLU	N-CA-C	6.73	119.19	111.11
1	9m	156	GLY	CA-C-N	6.73	126.33	119.19
1	9m	156	GLY	C-N-CA	6.73	126.33	119.19
1	9O	173	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	Z	17	PRO	N-CA-CB	-6.73	96.75	103.48
1	af	196	PRO	CA-C-N	6.73	129.19	120.44
1	af	196	PRO	C-N-CA	6.73	129.19	120.44
1	ah	20	LEU	CA-C-O	-6.73	112.23	119.97
1	av	184	TRP	CA-C-N	6.73	129.30	120.28
1	av	184	TRP	C-N-CA	6.73	129.30	120.28
1	b0	206	GLY	O-C-N	-6.73	115.04	121.77
1	bp	203	LYS	N-CA-C	6.73	119.45	111.71
1	cb	29	GLU	CB-CG-CD	-6.73	101.15	112.60
1	ci	161	PHE	CA-C-O	6.73	127.71	120.10
1	cU	97	ARG	CB-CA-C	-6.73	97.02	110.42
1	cX	87	HIS	CB-CG-CD2	-6.73	122.45	131.20
1	e2	23	TRP	CA-C-N	6.73	129.69	120.46
1	e2	23	TRP	C-N-CA	6.73	129.69	120.46
1	fQ	191	VAL	CA-C-O	6.73	127.95	120.95
1	g1	161	PHE	CB-CG-CD2	6.73	132.15	120.70
1	k	197	ASP	N-CA-C	6.73	119.48	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	36	VAL	N-CA-CB	6.73	117.69	110.62
1	gs	104	ILE	CA-C-O	-6.73	113.95	120.95
1	gL	44	SER	O-C-N	-6.73	112.60	122.43
1	gN	229	ARG	CA-C-O	-6.73	114.17	121.44
1	gW	27	VAL	N-CA-C	6.73	117.49	110.62
1	hd	96	MET	N-CA-C	6.73	119.49	109.59
1	hr	13	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	i4	219	GLN	CA-C-O	6.73	127.71	119.97
1	ia	172	LEU	CA-C-N	6.73	130.54	120.31
1	ia	172	LEU	C-N-CA	6.73	130.54	120.31
1	ih	138	LEU	CA-C-N	6.73	129.30	120.28
1	ih	138	LEU	C-N-CA	6.73	129.30	120.28
1	il	53	ASN	CA-CB-CG	-6.73	105.87	112.60
1	jh	59	VAL	CA-C-O	-6.73	114.03	121.23
1	jh	183	ASN	N-CA-C	6.73	119.48	111.33
1	jv	30	LYS	CA-C-O	6.73	127.44	119.56
1	jI	94	GLY	N-CA-C	-6.73	105.89	114.37
1	k4	209	ALA	N-CA-C	6.73	119.51	110.35
1	ki	226	HIS	CG-CD2-NE2	6.73	113.93	107.20
1	kT	28	GLU	CA-C-O	6.73	127.56	120.42
1	l7	118	MET	CA-C-O	6.73	127.69	120.55
1	lq	111	LEU	CA-C-N	6.73	129.30	120.28
1	lq	111	LEU	C-N-CA	6.73	129.30	120.28
1	lv	156	GLY	CA-C-N	6.73	126.19	118.85
1	lv	156	GLY	C-N-CA	6.73	126.19	118.85
1	2i	230	VAL	N-CA-C	-6.73	106.09	113.43
1	2r	78	ALA	CA-C-N	6.73	129.30	120.28
1	2r	78	ALA	C-N-CA	6.73	129.30	120.28
1	3B	168	PHE	CA-CB-CG	6.73	120.53	113.80
1	4h	25	LYS	CA-C-O	-6.73	113.77	120.70
1	4H	103	ASP	CA-C-N	6.73	129.04	120.56
1	4H	103	ASP	C-N-CA	6.73	129.04	120.56
1	5t	143	ARG	NH1-CZ-NH2	-6.73	110.55	119.30
1	66	107	THR	N-CA-C	6.73	118.62	111.28
1	6k	73	ILE	CA-C-N	6.73	129.19	120.44
1	6k	73	ILE	C-N-CA	6.73	129.19	120.44
1	7a	117	TRP	N-CA-C	6.73	118.62	111.28
1	7I	148	THR	CA-C-O	6.73	128.30	120.89
1	7K	50	GLN	N-CA-C	6.73	118.27	111.07
1	88	186	THR	CA-C-O	6.73	127.89	120.82
1	8g	179	GLN	N-CA-C	6.73	118.62	111.28
1	8j	170	LYS	O-C-N	-6.73	114.98	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8K	15	ILE	N-CA-CB	6.73	118.59	110.31
1	a1	90	PRO	CB-CA-C	6.73	119.80	111.12
1	a1	183	ASN	CA-C-N	6.73	129.30	120.28
1	a1	183	ASN	C-N-CA	6.73	129.30	120.28
1	a7	201	ILE	CA-C-N	6.73	129.30	120.28
1	a7	201	ILE	C-N-CA	6.73	129.30	120.28
1	an	12	HIS	ND1-CE1-NE2	6.73	115.13	108.40
1	ap	81	ASP	CA-C-N	6.73	129.30	120.28
1	ap	81	ASP	C-N-CA	6.73	129.30	120.28
1	aq	168	PHE	O-C-N	-6.73	114.82	122.09
1	at	100	ARG	O-C-N	-6.73	113.85	122.20
1	aI	82	ARG	N-CA-C	6.73	119.63	111.82
1	aR	191	VAL	O-C-N	-6.73	116.03	122.09
1	aV	192	GLN	CA-C-O	6.73	127.69	120.55
1	b5	114	GLN	N-CA-CB	-6.73	100.22	110.12
1	bc	132	ARG	CA-C-N	6.73	129.85	120.29
1	bc	132	ARG	C-N-CA	6.73	129.85	120.29
1	bh	211	LEU	N-CA-C	6.73	118.62	111.28
1	bp	26	VAL	CA-C-N	6.73	128.93	120.72
1	bp	26	VAL	C-N-CA	6.73	128.93	120.72
1	bE	74	ASN	CA-CB-CG	6.73	119.33	112.60
1	c7	27	VAL	O-C-N	-6.73	114.89	121.83
1	cn	87	HIS	ND1-CE1-NE2	6.73	115.13	108.40
1	dh	183	ASN	OD1-CG-ND2	-6.73	115.87	122.60
1	dp	97	ARG	NE-CZ-NH2	-6.73	113.14	119.20
1	dp	177	ALA	O-C-N	-6.73	113.64	122.59
1	1o	96	MET	N-CA-CB	6.73	119.86	110.17
1	e4	220	GLY	N-CA-C	6.73	123.16	111.78
1	ek	200	THR	N-CA-C	6.73	119.63	111.82
1	eG	63	GLN	OE1-CD-NE2	6.73	129.33	122.60
1	1t	143	ARG	CA-C-N	6.73	129.30	120.28
1	1t	143	ARG	C-N-CA	6.73	129.30	120.28
1	f1	133	TRP	CA-C-N	6.73	129.04	120.56
1	f1	133	TRP	C-N-CA	6.73	129.04	120.56
1	fl	161	PHE	CA-CB-CG	6.73	120.53	113.80
1	fn	206	GLY	N-CA-C	6.73	126.07	112.34
1	fP	100	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	fP	153	ILE	N-CA-C	6.73	118.46	109.37
1	1A	187	GLU	N-CA-C	6.73	118.41	111.14
1	q	196	PRO	CA-C-N	6.73	129.85	120.29
1	q	196	PRO	C-N-CA	6.73	129.85	120.29
1	T	162	ARG	NE-CZ-NH2	-6.73	113.14	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	62	HIS	CA-CB-CG	-6.73	107.07	113.80
1	gK	196	PRO	CA-C-N	6.73	129.60	120.38
1	gK	196	PRO	C-N-CA	6.73	129.60	120.38
1	gQ	192	GLN	CA-CB-CG	6.73	127.56	114.10
1	gZ	87	HIS	CB-CG-CD2	-6.73	122.45	131.20
1	1H	127	GLY	O-C-N	-6.73	114.94	122.28
1	hu	179	GLN	N-CA-C	6.73	119.47	111.33
1	hD	23	TRP	CB-CG-CD2	-6.73	117.38	126.80
1	im	64	ALA	N-CA-C	6.73	118.27	111.07
1	iV	35	GLU	N-CA-C	6.73	119.63	111.82
1	j7	72	THR	CA-C-O	-6.73	113.75	120.82
1	j9	155	GLN	CG-CD-OE1	6.73	134.26	120.80
1	jc	191	VAL	N-CA-C	-6.73	106.09	113.43
1	jd	222	GLY	CA-C-N	6.73	132.44	121.87
1	jd	222	GLY	C-N-CA	6.73	132.44	121.87
1	1Z	108	THR	CA-C-O	6.73	126.24	118.77
1	22	4	GLN	O-C-N	6.73	130.66	122.58
1	kP	36	VAL	N-CA-C	6.73	117.52	110.72
1	l8	200	THR	CA-C-O	6.73	127.55	120.42
1	l9	107	THR	CA-CB-OG1	6.73	119.70	109.60
1	ln	39	MET	CA-C-O	6.73	127.71	120.24
1	2i	150	ILE	CA-C-N	6.73	129.97	120.28
1	2i	150	ILE	C-N-CA	6.73	129.97	120.28
1	2n	52	LEU	CA-C-O	6.73	127.89	120.82
1	2E	97	ARG	NE-CZ-NH2	-6.73	113.14	119.20
1	2H	124	ILE	CA-C-O	-6.73	116.30	120.88
1	2H	179	GLN	CB-CA-C	-6.73	100.31	110.88
1	33	132	ARG	NE-CZ-NH2	-6.73	113.14	119.20
1	3n	137	GLY	O-C-N	-6.73	115.64	122.17
1	3K	57	ASN	CA-C-O	6.73	127.66	119.31
1	3M	146	SER	N-CA-C	6.73	119.27	109.71
1	3P	37	ILE	CA-C-N	6.73	128.25	119.84
1	3P	37	ILE	C-N-CA	6.73	128.25	119.84
1	49	11	VAL	O-C-N	-6.73	115.90	123.10
1	4w	16	SER	CA-C-N	6.73	128.25	119.84
1	4w	16	SER	C-N-CA	6.73	128.25	119.84
1	4x	87	HIS	CA-C-O	-6.73	113.62	121.16
1	54	55	MET	N-CA-C	6.73	118.70	111.36
1	5p	101	GLY	CA-C-O	6.73	127.67	120.40
1	65	41	SER	CA-C-N	6.73	130.21	120.38
1	65	41	SER	C-N-CA	6.73	130.21	120.38
1	6m	33	SER	CA-C-O	-6.73	114.15	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6n	212	GLU	N-CA-CB	6.73	120.01	110.12
1	6x	2	ILE	CA-C-N	6.73	131.41	122.93
1	6x	2	ILE	C-N-CA	6.73	131.41	122.93
1	6B	203	LYS	O-C-N	-6.73	115.14	122.07
1	6P	78	ALA	CA-C-N	6.73	129.30	120.28
1	6P	78	ALA	C-N-CA	6.73	129.30	120.28
1	7q	120	HIS	CE1-NE2-CD2	-6.73	102.27	109.00
1	7N	73	ILE	N-CA-C	6.73	117.48	110.62
1	7O	46	GLY	N-CA-C	-6.73	105.22	114.64
1	7Y	146	SER	O-C-N	-6.73	115.31	121.30
1	7Y	213	GLU	N-CA-C	6.73	118.62	111.28
1	7Z	93	PRO	N-CD-CG	6.73	113.30	103.20
1	8N	168	PHE	O-C-N	-6.73	115.09	122.09
1	9b	176	GLN	CA-C-O	6.73	129.22	121.28
1	9G	119	THR	N-CA-C	6.73	118.70	111.36
1	9K	50	GLN	N-CA-C	6.73	118.27	111.07
1	Y	104	ILE	CA-C-O	-6.73	114.04	121.17
1	9Q	15	ILE	N-CA-C	6.73	119.32	109.63
1	9W	67	GLN	CA-C-O	6.73	127.68	120.55
1	ab	68	MET	N-CA-C	6.73	118.61	111.28
1	ba	112	GLN	CA-C-N	6.73	129.19	120.44
1	ba	112	GLN	C-N-CA	6.73	129.19	120.44
1	bU	179	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	cD	147	PRO	N-CA-CB	-6.73	96.18	103.25
1	cP	229	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	dh	221	VAL	CA-C-N	6.73	134.60	121.41
1	dh	221	VAL	C-N-CA	6.73	134.60	121.41
1	dk	75	GLU	N-CA-C	6.73	118.62	111.28
1	dk	154	ARG	NH1-CZ-NH2	-6.73	110.55	119.30
1	1k	117	TRP	N-CA-C	6.73	118.70	111.36
1	dr	230	VAL	N-CA-C	6.73	117.49	110.62
1	ds	212	GLU	N-CA-C	6.73	118.62	111.28
1	dF	33	SER	CA-C-N	6.73	126.99	119.32
1	dF	33	SER	C-N-CA	6.73	126.99	119.32
1	1n	75	GLU	N-CA-C	6.73	118.70	111.36
1	dW	40	PHE	CA-C-N	6.73	129.30	120.28
1	dW	40	PHE	C-N-CA	6.73	129.30	120.28
1	eq	156	GLY	O-C-N	-6.73	115.04	121.77
1	ev	105	ALA	CA-C-O	6.73	127.72	119.11
1	ey	226	HIS	CE1-NE2-CD2	-6.73	102.27	109.00
1	1v	183	ASN	CA-CB-CG	-6.73	105.87	112.60
1	fb	69	LEU	CA-C-N	6.73	129.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fb	69	LEU	C-N-CA	6.73	129.30	120.28
1	fi	119	THR	CA-C-N	6.73	130.91	120.75
1	fi	119	THR	C-N-CA	6.73	130.91	120.75
1	1w	155	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	fC	122	PRO	N-CA-CB	6.73	110.00	102.60
1	fS	116	GLY	CA-C-N	6.73	129.19	120.44
1	fS	116	GLY	C-N-CA	6.73	129.19	120.44
1	k	12	HIS	ND1-CE1-NE2	6.73	115.13	108.40
1	t	27	VAL	N-CA-C	6.73	119.50	111.09
1	z	15	ILE	CA-C-O	6.73	129.15	121.28
1	1M	219	GLN	N-CA-C	6.73	119.99	109.96
1	iF	134	ILE	N-CA-C	6.73	116.88	110.42
1	ln	208	ALA	O-C-N	-6.73	113.04	122.26
1	2c	206	GLY	CA-C-N	6.73	126.71	119.78
1	2c	206	GLY	C-N-CA	6.73	126.71	119.78
1	2k	167	ARG	CB-CA-C	6.73	122.29	110.85
1	2G	56	LEU	N-CA-C	6.73	118.61	111.28
1	3n	228	ALA	N-CA-C	6.73	119.43	111.02
1	3R	58	THR	N-CA-CB	6.73	120.01	110.12
1	4p	209	ALA	O-C-N	-6.73	114.76	122.97
1	4q	226	HIS	CE1-NE2-CD2	-6.73	102.27	109.00
1	56	184	TRP	N-CA-CB	6.73	119.77	110.01
1	5n	179	GLN	CB-CG-CD	-6.73	101.16	112.60
1	5V	84	HIS	CA-CB-CG	-6.73	107.07	113.80
1	9l	73	ILE	N-CA-C	6.73	118.29	110.62
1	9Z	161	PHE	CA-C-N	6.73	129.30	120.28
1	9Z	161	PHE	C-N-CA	6.73	129.30	120.28
1	a1	195	ASN	N-CA-C	6.73	118.38	109.83
1	aE	184	TRP	CA-C-O	6.73	127.89	120.82
1	aK	167	ARG	NE-CZ-NH2	-6.73	113.14	119.20
1	aL	84	HIS	CA-C-O	-6.73	113.05	119.91
1	aL	146	SER	CA-C-N	6.73	126.71	119.78
1	aL	146	SER	C-N-CA	6.73	126.71	119.78
1	b9	31	ALA	N-CA-C	6.73	120.33	109.02
1	bD	78	ALA	CA-C-N	6.73	129.30	120.28
1	bD	78	ALA	C-N-CA	6.73	129.30	120.28
1	bH	12	HIS	CA-CB-CG	-6.73	107.07	113.80
1	cH	53	ASN	N-CA-C	6.73	118.27	111.07
1	cW	18	ARG	CA-C-N	6.73	129.85	120.29
1	cW	18	ARG	C-N-CA	6.73	129.85	120.29
1	db	131	LYS	CA-C-N	6.73	129.19	120.44
1	db	131	LYS	C-N-CA	6.73	129.19	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	de	147	PRO	N-CA-C	6.73	121.81	111.11
1	dM	33	SER	CA-C-N	6.73	126.68	119.28
1	dM	33	SER	C-N-CA	6.73	126.68	119.28
1	e8	121	ASN	OD1-CG-ND2	-6.73	115.87	122.60
1	eU	162	ARG	CA-C-N	6.73	129.30	120.28
1	eU	162	ARG	C-N-CA	6.73	129.30	120.28
1	f7	139	ASN	N-CA-C	6.73	118.69	111.36
1	fj	79	GLU	N-CA-C	6.73	118.61	111.28
1	fX	99	PRO	CB-CA-C	6.73	120.16	111.21
1	p	226	HIS	CE1-NE2-CD2	-6.73	102.27	109.00
1	gu	190	LEU	N-CA-C	6.73	118.61	111.28
1	h8	119	THR	CA-C-N	6.73	130.91	120.75
1	h8	119	THR	C-N-CA	6.73	130.91	120.75
1	he	74	ASN	CA-C-N	6.73	129.19	120.44
1	he	74	ASN	C-N-CA	6.73	129.19	120.44
1	1K	118	MET	CA-C-O	6.73	127.68	120.55
1	hQ	134	ILE	O-C-N	-6.73	115.34	121.87
1	hX	220	GLY	N-CA-C	-6.73	105.61	115.63
1	i0	134	ILE	CA-C-N	6.73	129.68	120.46
1	i0	134	ILE	C-N-CA	6.73	129.68	120.46
1	1P	201	ILE	N-CA-C	6.73	117.48	110.62
1	j0	113	GLU	CA-C-N	6.73	129.19	120.44
1	j0	113	GLU	C-N-CA	6.73	129.19	120.44
1	j2	160	PRO	N-CA-CB	6.73	109.17	103.25
1	j6	7	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	jn	26	VAL	N-CA-CB	6.73	118.42	110.55
1	kb	22	ALA	O-C-N	-6.73	114.99	122.12
1	lv	205	LEU	N-CA-C	6.73	118.69	111.36
1	lD	146	SER	CA-C-O	6.73	127.09	120.23
1	2D	185	MET	CA-C-N	6.73	129.84	120.29
1	2D	185	MET	C-N-CA	6.73	129.84	120.29
1	2R	67	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	2X	228	ALA	CA-C-O	-6.73	113.63	120.96
1	3d	183	ASN	CA-CB-CG	6.73	119.33	112.60
1	4B	186	THR	O-C-N	-6.73	114.83	122.09
1	4O	53	ASN	CA-CB-CG	-6.73	105.87	112.60
1	57	112	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	5E	182	LYS	CA-C-N	6.73	129.59	120.44
1	5E	182	LYS	C-N-CA	6.73	129.59	120.44
1	5L	78	ALA	O-C-N	6.73	129.25	122.12
1	6n	89	GLY	CA-C-N	6.73	126.75	119.89
1	6n	89	GLY	C-N-CA	6.73	126.75	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6A	114	GLN	O-C-N	-6.73	115.09	122.09
1	6T	191	VAL	N-CA-C	6.73	118.77	111.77
1	7d	103	ASP	N-CA-C	-6.73	104.55	112.89
1	7e	39	MET	CA-C-O	6.73	128.06	121.00
1	7o	139	ASN	N-CA-C	6.73	119.47	111.33
1	7q	78	ALA	CA-C-N	6.73	129.60	120.38
1	7q	78	ALA	C-N-CA	6.73	129.60	120.38
1	7M	183	ASN	CA-C-O	6.73	127.55	120.42
1	7P	164	TYR	N-CA-CB	-6.73	100.20	110.16
1	89	56	LEU	N-CA-C	6.73	119.18	111.11
1	8d	41	SER	N-CA-C	6.73	118.27	111.07
1	8d	120	HIS	CA-CB-CG	6.73	120.53	113.80
1	8e	77	ALA	CA-C-O	-6.73	113.42	120.55
1	8i	15	ILE	O-C-N	-6.73	115.81	122.67
1	8K	176	GLN	OE1-CD-NE2	-6.73	115.87	122.60
1	8Z	47	ALA	N-CA-C	6.73	118.99	110.24
1	90	48	THR	CA-CB-OG1	6.73	119.69	109.60
1	95	113	GLU	CA-C-O	-6.73	113.42	120.55
1	9o	5	ASN	CA-CB-CG	-6.73	105.87	112.60
1	9p	66	MET	O-C-N	-6.73	114.48	122.15
1	9I	178	SER	N-CA-C	6.73	118.69	110.41
1	a8	20	LEU	CA-C-N	6.73	129.29	120.28
1	a8	20	LEU	C-N-CA	6.73	129.29	120.28
1	af	65	ALA	CA-C-N	6.73	129.62	120.54
1	af	65	ALA	C-N-CA	6.73	129.62	120.54
1	ak	132	ARG	NE-CZ-NH2	-6.73	113.15	119.20
1	as	114	GLN	CA-C-O	6.73	127.89	120.82
1	12	15	ILE	N-CA-C	6.73	120.41	109.78
1	ay	143	ARG	NE-CZ-NH2	-6.73	113.14	119.20
1	aC	21	ASN	CA-C-N	6.73	129.29	120.28
1	aC	21	ASN	C-N-CA	6.73	129.29	120.28
1	aU	62	HIS	CA-C-N	6.73	129.30	120.28
1	aU	62	HIS	C-N-CA	6.73	129.30	120.28
1	bb	226	HIS	CA-CB-CG	-6.73	107.07	113.80
1	19	51	ASP	CA-C-O	6.73	127.68	120.55
1	1a	45	GLU	N-CA-C	6.73	118.61	111.28
1	cK	113	GLU	CA-C-N	6.73	129.29	120.28
1	cK	113	GLU	C-N-CA	6.73	129.29	120.28
1	d4	188	THR	CA-CB-OG1	6.73	119.69	109.60
1	dn	102	SER	CA-C-N	6.73	129.60	120.38
1	dn	102	SER	C-N-CA	6.73	129.60	120.38
1	dA	85	PRO	CB-CA-C	6.73	119.60	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dD	12	HIS	O-C-N	-6.73	115.33	123.27
1	dN	111	LEU	O-C-N	-6.73	114.37	122.11
1	er	153	ILE	CA-C-O	6.73	127.77	119.43
1	ex	56	LEU	N-CA-C	6.73	119.62	111.82
1	eL	26	VAL	N-CA-C	6.73	116.85	110.53
1	fh	173	ARG	NE-CZ-NH1	6.73	128.23	121.50
1	fq	5	ASN	CA-CB-CG	6.73	119.33	112.60
1	fB	119	THR	CA-C-O	6.73	127.33	119.32
1	fJ	3	VAL	CB-CA-C	-6.73	101.99	111.21
1	y	39	MET	N-CA-C	6.73	118.27	111.07
1	G	183	ASN	N-CA-C	6.73	118.69	111.36
1	H	46	GLY	CA-C-O	6.73	127.40	119.19
1	I	177	ALA	CA-C-N	6.73	130.38	120.90
1	I	177	ALA	C-N-CA	6.73	130.38	120.90
1	gn	187	GLU	N-CA-C	6.73	119.18	111.11
1	go	48	THR	N-CA-CB	6.73	119.78	110.03
1	gA	139	ASN	CA-C-O	6.73	127.68	120.55
1	hC	133	TRP	CB-CG-CD2	-6.73	117.38	126.80
1	hN	173	ARG	NE-CZ-NH2	-6.73	113.15	119.20
1	il	54	THR	CA-C-O	6.73	127.55	120.42
1	jd	111	LEU	CA-C-N	6.73	129.29	120.28
1	jd	111	LEU	C-N-CA	6.73	129.29	120.28
1	jK	154	ARG	CA-C-O	6.73	128.86	121.06
1	22	197	ASP	N-CA-CB	-6.73	100.21	110.16
1	2W	61	GLY	N-CA-C	-6.73	100.94	112.64
1	4H	80	TRP	N-CA-C	6.73	118.61	111.28
1	5i	110	THR	CA-CB-OG1	6.73	119.69	109.60
1	5i	194	ALA	N-CA-CB	-6.73	100.07	110.29
1	5U	200	THR	N-CA-C	6.73	119.18	111.11
1	8q	77	ALA	N-CA-C	6.73	118.61	111.28
1	8V	75	GLU	CB-CA-C	-6.73	99.42	110.85
1	bK	197	ASP	CA-CB-CG	6.73	119.33	112.60
1	c7	63	GLN	N-CA-C	6.73	118.61	111.28
1	cS	162	ARG	NH1-CZ-NH2	-6.73	110.56	119.30
1	dF	191	VAL	N-CA-C	6.73	116.88	110.42
1	dR	203	LYS	N-CA-C	6.73	118.61	111.28
1	ef	92	GLU	O-C-N	-6.73	114.49	120.48
1	ep	15	ILE	CA-C-N	6.73	129.68	120.67
1	ep	15	ILE	C-N-CA	6.73	129.68	120.67
1	1t	194	ALA	N-CA-C	6.73	119.01	110.33
1	eS	32	PHE	CA-CB-CG	-6.73	107.07	113.80
1	eZ	50	GLN	OE1-CD-NE2	-6.73	115.87	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fm	173	ARG	NE-CZ-NH2	-6.73	113.15	119.20
1	fn	211	LEU	O-C-N	-6.73	114.99	122.12
1	fL	154	ARG	N-CA-C	6.73	125.13	110.80
1	g7	57	ASN	OD1-CG-ND2	-6.73	115.87	122.60
1	p	102	SER	N-CA-C	6.73	119.62	111.82
1	s	32	PHE	CA-CB-CG	-6.73	107.07	113.80
1	gn	67	GLN	CA-C-N	6.72	129.18	120.44
1	gn	67	GLN	C-N-CA	6.72	129.18	120.44
1	1E	79	GLU	CA-C-N	6.72	129.29	120.28
1	1E	79	GLU	C-N-CA	6.72	129.29	120.28
1	gQ	56	LEU	O-C-N	6.72	129.25	122.12
1	gX	211	LEU	CA-C-N	6.72	129.62	120.54
1	gX	211	LEU	C-N-CA	6.72	129.62	120.54
1	hn	65	ALA	O-C-N	6.72	129.82	122.15
1	hr	178	SER	N-CA-C	6.72	119.24	110.43
1	hP	19	THR	CA-C-N	6.72	129.18	120.44
1	hP	19	THR	C-N-CA	6.72	129.18	120.44
1	if	176	GLN	CA-C-O	6.72	127.93	119.12
1	iA	214	MET	N-CA-C	6.72	118.61	111.28
1	iI	87	HIS	CA-CB-CG	6.72	120.53	113.80
1	iJ	210	THR	O-C-N	-6.72	115.36	122.96
1	iQ	173	ARG	N-CA-C	6.72	118.61	111.28
1	j6	218	CYS	N-CA-C	6.72	120.67	111.39
1	jg	201	ILE	N-CA-C	6.72	117.48	110.62
1	jI	100	ARG	N-CA-C	-6.72	100.02	110.17
1	jN	21	ASN	OD1-CG-ND2	-6.72	115.88	122.60
1	k1	208	ALA	CA-C-N	6.72	131.37	122.42
1	k1	208	ALA	C-N-CA	6.72	131.37	122.42
1	kg	46	GLY	CA-C-N	6.72	130.92	121.24
1	kg	46	GLY	C-N-CA	6.72	130.92	121.24
1	kl	33	SER	CA-C-O	-6.72	113.35	120.28
1	l4	18	ARG	NE-CZ-NH2	6.72	125.25	119.20
1	l7	213	GLU	O-C-N	-6.72	115.14	122.07
1	l9	124	ILE	N-CA-CB	6.72	120.34	111.40
1	le	112	GLN	CA-C-N	6.72	129.29	120.28
1	le	112	GLN	C-N-CA	6.72	129.29	120.28
1	lG	74	ASN	CA-CB-CG	6.72	119.33	112.60
1	lM	219	GLN	CB-CG-CD	6.72	124.03	112.60
1	lO	115	ILE	CA-C-O	-6.72	113.96	120.95
1	2d	223	GLY	CA-C-N	6.72	128.25	119.84
1	2d	223	GLY	C-N-CA	6.72	128.25	119.84
1	2e	206	GLY	CA-C-N	6.72	128.25	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	206	GLY	C-N-CA	6.72	128.25	119.84
1	2g	60	GLY	CA-C-N	6.72	127.77	120.44
1	2g	60	GLY	C-N-CA	6.72	127.77	120.44
1	2l	36	VAL	O-C-N	-6.72	114.20	121.80
1	2o	211	LEU	CA-C-N	6.72	130.91	120.82
1	2o	211	LEU	C-N-CA	6.72	130.91	120.82
1	2z	47	ALA	CA-C-O	6.72	129.20	121.47
1	3o	173	ARG	O-C-N	-6.72	114.99	122.12
1	3N	36	VAL	N-CA-C	6.72	117.48	110.62
1	3Z	69	LEU	CA-C-O	-6.72	113.76	120.82
1	46	18	ARG	N-CA-C	6.72	118.61	111.28
1	4d	62	HIS	ND1-CG-CD2	6.72	112.83	106.10
1	4d	178	SER	CA-C-N	6.72	129.59	120.38
1	4d	178	SER	C-N-CA	6.72	129.59	120.38
1	4e	27	VAL	N-CA-C	6.72	117.51	110.72
1	4N	195	ASN	CA-CB-CG	6.72	119.32	112.60
1	4Z	26	VAL	N-CA-C	6.72	117.48	110.62
1	5d	78	ALA	CA-C-O	-6.72	113.76	120.82
1	5f	121	ASN	O-C-N	-6.72	114.92	121.38
1	5r	117	TRP	CZ3-CH2-CZ2	-6.72	112.76	121.50
1	5M	121	ASN	O-C-N	-6.72	113.45	121.12
1	5O	33	SER	CA-C-O	-6.72	114.55	120.60
1	5O	97	ARG	CA-C-O	6.72	128.59	121.19
1	6b	21	ASN	CA-CB-CG	-6.72	105.88	112.60
1	6m	16	SER	CA-C-N	6.72	128.25	119.84
1	6m	16	SER	C-N-CA	6.72	128.25	119.84
1	6J	67	GLN	O-C-N	-6.72	114.00	122.27
1	7n	17	PRO	CA-C-N	6.72	129.62	120.54
1	7n	17	PRO	C-N-CA	6.72	129.62	120.54
1	7s	20	LEU	N-CA-C	6.72	118.61	111.28
1	7I	48	THR	CA-CB-CG2	-6.72	99.07	110.50
1	7Y	224	PRO	CA-C-N	6.72	127.41	119.94
1	7Y	224	PRO	C-N-CA	6.72	127.41	119.94
1	8j	100	ARG	O-C-N	-6.72	114.81	122.68
1	8H	100	ARG	NE-CZ-NH2	-6.72	113.15	119.20
1	8J	84	HIS	CA-C-N	6.72	126.76	119.90
1	8J	84	HIS	C-N-CA	6.72	126.76	119.90
1	8U	91	ILE	N-CA-C	-6.72	106.44	112.90
1	98	12	HIS	CA-CB-CG	6.72	120.53	113.80
1	9q	114	GLN	N-CA-C	6.72	118.69	111.36
1	al	173	ARG	NE-CZ-NH2	-6.72	113.15	119.20
1	aq	188	THR	N-CA-C	6.72	118.27	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	33	SER	CB-CA-C	-6.72	98.53	109.56
1	aI	7	GLN	N-CA-C	6.72	120.94	111.52
1	aI	14	ALA	N-CA-C	6.72	119.98	110.23
1	aJ	159	GLU	CA-C-O	-6.72	113.78	119.76
1	b7	98	GLU	N-CA-C	6.72	121.35	109.58
1	17	62	HIS	ND1-CG-CD2	6.72	112.83	106.10
1	bi	37	ILE	O-C-N	-6.72	115.30	120.07
1	bq	200	THR	N-CA-C	6.72	118.61	111.28
1	18	32	PHE	CA-C-O	6.72	128.10	120.84
1	bu	86	VAL	O-C-N	-6.72	115.81	122.67
1	bx	92	GLU	N-CA-C	6.72	124.67	109.81
1	bS	112	GLN	OE1-CD-NE2	-6.72	115.88	122.60
1	dg	224	PRO	CA-C-N	6.72	127.44	119.98
1	dg	224	PRO	C-N-CA	6.72	127.44	119.98
1	dz	112	GLN	N-CA-C	6.72	118.27	111.07
1	dO	190	LEU	O-C-N	-6.72	115.14	122.07
1	ei	200	THR	N-CA-C	6.72	119.18	111.11
1	1q	203	LYS	CA-C-N	6.72	129.59	120.44
1	1q	203	LYS	C-N-CA	6.72	129.59	120.44
1	fm	63	GLN	O-C-N	6.72	131.74	122.46
1	fB	114	GLN	N-CA-C	6.72	118.26	111.07
1	k	182	LYS	CA-C-N	6.72	129.18	120.44
1	k	182	LYS	C-N-CA	6.72	129.18	120.44
1	6	138	LEU	CA-C-O	6.72	127.68	120.55
1	gt	91	ILE	CA-C-N	6.72	128.49	120.09
1	gt	91	ILE	C-N-CA	6.72	128.49	120.09
1	gy	211	LEU	O-C-N	-6.72	114.99	122.12
1	gD	97	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	gJ	129	ILE	CA-C-O	-6.72	114.10	121.29
1	h7	103	ASP	CB-CA-C	-6.72	99.63	110.79
1	hj	2	ILE	CA-C-N	6.72	132.33	122.99
1	hj	2	ILE	C-N-CA	6.72	132.33	122.99
1	1K	87	HIS	CB-CG-CD2	-6.72	122.46	131.20
1	ix	229	ARG	NE-CZ-NH2	-6.72	113.15	119.20
1	k2	66	MET	N-CA-C	6.72	118.26	111.07
1	kE	137	GLY	CA-C-N	6.72	129.59	120.38
1	kE	137	GLY	C-N-CA	6.72	129.59	120.38
1	l1	45	GLU	CA-C-O	6.72	128.38	120.58
1	lv	71	GLU	CA-C-O	-6.72	113.42	120.55
1	2c	165	VAL	N-CA-C	6.72	117.48	110.62
1	2j	112	GLN	N-CA-C	6.72	118.61	111.28
1	3f	12	HIS	CA-CB-CG	6.72	120.52	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	175	GLU	N-CA-C	6.72	119.55	108.99
1	4h	2	ILE	CA-C-N	6.72	132.53	122.58
1	4h	2	ILE	C-N-CA	6.72	132.53	122.58
1	4o	108	THR	CA-CB-OG1	6.72	119.68	109.60
1	4q	100	ARG	N-CA-CB	-6.72	101.11	110.25
1	4A	14	ALA	N-CA-C	6.72	118.98	110.24
1	4D	43	LEU	O-C-N	-6.72	114.11	122.24
1	4U	47	ALA	N-CA-C	6.72	120.62	109.46
1	5c	3	VAL	CA-C-N	6.72	133.10	122.21
1	5c	3	VAL	C-N-CA	6.72	133.10	122.21
1	5l	25	LYS	N-CA-C	6.72	118.69	111.36
1	5V	24	VAL	N-CA-C	6.72	117.48	110.62
1	6e	46	GLY	O-C-N	-6.72	113.61	122.42
1	6z	120	HIS	CG-CD2-NE2	6.72	113.92	107.20
1	6C	167	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	82	67	GLN	CB-CG-CD	6.72	124.03	112.60
1	9a	12	HIS	CA-CB-CG	6.72	120.52	113.80
1	9r	189	LEU	N-CA-C	6.72	119.46	111.33
1	a6	97	ARG	NH1-CZ-NH2	-6.72	110.56	119.30
1	af	167	ARG	NH1-CZ-NH2	-6.72	110.56	119.30
1	au	15	ILE	N-CA-C	6.72	119.31	109.63
1	aI	140	LYS	N-CA-C	6.72	118.26	111.07
1	aP	75	GLU	O-C-N	-6.72	114.49	122.15
1	aS	97	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	15	87	HIS	N-CA-C	6.72	120.12	110.10
1	bn	166	ASP	O-C-N	-6.72	115.00	122.12
1	18	100	ARG	NE-CZ-NH2	-6.72	113.15	119.20
1	19	84	HIS	CA-C-N	6.72	126.70	119.78
1	19	84	HIS	C-N-CA	6.72	126.70	119.78
1	bM	72	THR	CA-C-N	6.72	129.03	120.56
1	bM	72	THR	C-N-CA	6.72	129.03	120.56
1	bS	84	HIS	CE1-NE2-CD2	-6.72	102.28	109.00
1	c9	162	ARG	O-C-N	-6.72	114.99	122.12
1	cg	179	GLN	CB-CG-CD	6.72	124.03	112.60
1	cs	143	ARG	N-CA-C	6.72	118.26	111.07
1	1i	165	VAL	CA-C-N	6.72	130.13	120.79
1	1i	165	VAL	C-N-CA	6.72	130.13	120.79
1	dG	93	PRO	N-CA-C	6.72	122.22	111.26
1	dG	201	ILE	N-CA-C	6.72	117.48	110.62
1	dH	50	GLN	N-CA-C	6.72	119.47	111.33
1	1n	51	ASP	O-C-N	6.72	129.25	122.12
1	dX	63	GLN	CA-C-N	6.72	129.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dX	63	GLN	C-N-CA	6.72	129.29	120.28
1	ec	101	GLY	CA-C-N	6.72	129.96	120.28
1	ec	101	GLY	C-N-CA	6.72	129.96	120.28
1	ev	87	HIS	CA-C-N	6.72	129.59	120.38
1	ev	87	HIS	C-N-CA	6.72	129.59	120.38
1	eB	137	GLY	O-C-N	6.72	128.63	122.18
1	ft	40	PHE	N-CA-C	6.72	119.47	111.33
1	fP	167	ARG	NE-CZ-NH2	6.72	125.25	119.20
1	fY	91	ILE	N-CA-CB	-6.72	106.13	111.64
1	p	62	HIS	CE1-NE2-CD2	-6.72	102.28	109.00
1	y	133	TRP	CB-CG-CD2	-6.72	117.39	126.80
1	gX	13	GLN	O-C-N	-6.72	116.23	123.42
1	hT	132	ARG	NE-CZ-NH2	-6.72	113.15	119.20
1	iH	226	HIS	CB-CG-ND1	6.72	132.78	122.70
1	j0	93	PRO	CA-C-O	-6.72	113.77	121.36
1	jy	51	ASP	CA-C-O	6.72	127.55	120.42
1	kQ	139	ASN	N-CA-C	6.72	119.46	111.33
1	lr	202	LEU	N-CA-C	6.72	118.61	111.28
1	2T	92	GLU	CA-C-N	6.72	127.78	119.98
1	2T	92	GLU	C-N-CA	6.72	127.78	119.98
1	3w	17	PRO	CA-C-N	6.72	129.18	120.44
1	3w	17	PRO	C-N-CA	6.72	129.18	120.44
1	4M	164	TYR	CA-C-N	6.72	129.03	120.56
1	4M	164	TYR	C-N-CA	6.72	129.03	120.56
1	5x	55	MET	N-CA-C	6.72	119.18	111.11
1	5E	181	VAL	CB-CA-C	6.72	120.72	111.92
1	5M	150	ILE	N-CA-CB	6.72	119.68	110.54
1	65	16	SER	CA-C-N	6.72	128.24	119.84
1	65	16	SER	C-N-CA	6.72	128.24	119.84
1	6y	190	LEU	CA-C-O	-6.72	113.68	121.07
1	6N	59	VAL	CA-C-N	6.72	134.58	121.41
1	6N	59	VAL	C-N-CA	6.72	134.58	121.41
1	6T	131	LYS	N-CA-C	6.72	118.61	111.28
1	78	101	GLY	CA-C-N	6.72	129.18	120.44
1	78	101	GLY	C-N-CA	6.72	129.18	120.44
1	79	137	GLY	N-CA-C	6.72	120.30	112.50
1	87	66	MET	N-CA-C	6.72	119.46	111.33
1	8h	20	LEU	CA-C-N	6.72	129.59	120.38
1	8h	20	LEU	C-N-CA	6.72	129.59	120.38
1	Z	121	ASN	CA-CB-CG	-6.72	105.88	112.60
1	a3	174	ALA	N-CA-C	6.72	118.40	111.14
1	al	80	TRP	CA-C-O	6.72	127.67	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b7	195	ASN	CA-C-O	-6.72	113.48	120.87
1	bn	118	MET	O-C-N	-6.72	114.36	122.22
1	bR	200	THR	N-CA-CB	6.72	119.76	110.01
1	c5	170	LYS	N-CA-C	6.72	118.61	111.28
1	c5	177	ALA	N-CA-C	6.72	119.97	109.96
1	cz	195	ASN	CA-CB-CG	-6.72	105.88	112.60
1	d6	18	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	dl	228	ALA	CA-C-O	-6.72	114.03	121.89
1	dH	166	ASP	CA-CB-CG	6.72	119.32	112.60
1	eq	42	ALA	CA-C-N	6.72	129.29	120.28
1	eq	42	ALA	C-N-CA	6.72	129.29	120.28
1	eM	18	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	fb	118	MET	CA-C-O	6.72	127.65	119.38
1	fW	45	GLU	N-CA-C	6.72	120.59	110.64
1	ga	189	LEU	N-CA-C	6.72	122.46	111.37
1	hg	219	GLN	N-CA-C	6.72	119.76	110.35
1	hL	189	LEU	CA-C-N	6.72	129.28	120.28
1	hL	189	LEU	C-N-CA	6.72	129.28	120.28
1	hW	80	TRP	N-CA-C	6.72	118.61	111.28
1	i1	82	ARG	N-CA-C	6.72	118.60	111.28
1	i1	171	THR	CA-C-N	6.72	129.59	120.38
1	i1	171	THR	C-N-CA	6.72	129.59	120.38
1	i8	128	GLU	CA-C-N	6.72	129.66	120.46
1	i8	128	GLU	C-N-CA	6.72	129.66	120.46
1	1P	143	ARG	N-CA-C	6.72	118.61	111.28
1	iv	143	ARG	N-CA-C	6.72	119.44	111.71
1	iD	129	ILE	O-C-N	-6.72	115.33	121.91
1	iG	156	GLY	CA-C-N	6.72	126.41	119.82
1	iG	156	GLY	C-N-CA	6.72	126.41	119.82
1	iR	10	MET	CG-SD-CE	-6.72	86.12	100.90
1	1S	192	GLN	N-CA-C	-6.72	105.05	113.18
1	1T	48	THR	O-C-N	-6.72	114.00	121.53
1	jb	80	TRP	CA-C-O	-6.72	113.78	120.70
1	jI	181	VAL	O-C-N	-6.72	115.32	121.91
1	jN	133	TRP	O-C-N	-6.72	115.00	122.12
1	1Y	229	ARG	O-C-N	-6.72	114.69	122.89
1	k5	214	MET	N-CA-C	6.72	118.61	111.28
1	21	64	ALA	CA-C-O	6.72	127.62	120.70
1	25	8	GLY	CA-C-N	6.72	130.92	121.24
1	25	8	GLY	C-N-CA	6.72	130.92	121.24
1	ld	62	HIS	N-CA-C	6.72	120.68	111.54
1	27	76	GLU	N-CA-CB	6.72	120.10	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lj	126	VAL	O-C-N	-6.72	115.31	121.89
1	ln	37	ILE	N-CA-C	6.72	123.39	108.88
1	lA	124	ILE	N-CA-C	-6.72	100.57	107.89
1	lJ	226	HIS	CA-C-N	6.72	133.27	122.32
1	lJ	226	HIS	C-N-CA	6.72	133.27	122.32
1	lK	120	HIS	CE1-NE2-CD2	-6.72	102.28	109.00
1	lN	22	ALA	N-CA-C	6.72	118.60	111.28
1	2s	124	ILE	CA-C-O	6.72	124.11	119.20
1	2O	164	TYR	N-CA-C	6.72	119.46	111.33
1	36	82	ARG	NH1-CZ-NH2	-6.72	110.56	119.30
1	3w	12	HIS	ND1-CE1-NE2	6.72	115.12	108.40
1	3K	230	VAL	O-C-N	-6.72	115.70	122.62
1	3W	183	ASN	OD1-CG-ND2	-6.72	115.88	122.60
1	4B	211	LEU	CA-C-O	6.72	127.67	120.55
1	4K	66	MET	N-CA-C	6.72	118.60	111.28
1	5k	152	ASP	CA-CB-CG	-6.72	105.88	112.60
1	5o	193	ASN	CB-CA-C	-6.72	98.87	110.09
1	5q	184	TRP	CB-CG-CD2	-6.72	117.39	126.80
1	5x	213	GLU	CA-C-N	6.72	129.96	120.28
1	5x	213	GLU	C-N-CA	6.72	129.96	120.28
1	5C	103	ASP	CA-CB-CG	6.72	119.32	112.60
1	6m	12	HIS	CG-CD2-NE2	6.72	113.92	107.20
1	6L	18	ARG	N-CA-C	6.72	119.22	111.02
1	7E	219	GLN	O-C-N	-6.72	114.66	122.93
1	7W	24	VAL	CA-C-N	6.72	129.28	120.28
1	7W	24	VAL	C-N-CA	6.72	129.28	120.28
1	8f	59	VAL	O-C-N	-6.72	115.03	122.83
1	8V	214	MET	CA-C-O	-6.72	113.43	120.55
1	9u	28	GLU	N-CA-C	6.72	118.61	111.28
1	9X	22	ALA	N-CA-CB	-6.72	100.33	110.07
1	ah	176	GLN	CG-CD-OE1	-6.72	107.36	120.80
1	aj	128	GLU	N-CA-C	6.72	118.60	111.28
1	aY	92	GLU	CA-C-O	-6.72	113.38	120.23
1	be	200	THR	O-C-N	-6.72	114.36	122.22
1	bz	168	PHE	O-C-N	-6.72	114.83	122.09
1	c2	24	VAL	CA-C-N	6.72	129.28	120.28
1	c2	24	VAL	C-N-CA	6.72	129.28	120.28
1	cd	221	VAL	CA-C-N	6.72	134.58	121.41
1	cd	221	VAL	C-N-CA	6.72	134.58	121.41
1	1e	135	ILE	CA-C-N	6.72	129.18	120.44
1	1e	135	ILE	C-N-CA	6.72	129.18	120.44
1	cr	53	ASN	CA-C-N	6.72	129.61	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cr	53	ASN	C-N-CA	6.72	129.61	120.54
1	cN	26	VAL	N-CA-CB	6.72	120.66	110.58
1	cZ	104	ILE	N-CA-CB	6.72	119.68	110.54
1	dW	203	LYS	N-CA-C	6.72	119.44	111.71
1	dZ	156	GLY	O-C-N	-6.72	115.05	121.77
1	ep	148	THR	CA-CB-OG1	6.72	119.68	109.60
1	ev	85	PRO	O-C-N	-6.72	113.57	122.64
1	1r	68	MET	CG-SD-CE	-6.72	86.12	100.90
1	x	41	SER	CA-C-N	6.72	129.28	120.28
1	x	41	SER	C-N-CA	6.72	129.28	120.28
1	F	177	ALA	CA-C-O	-6.72	114.48	121.87
1	gX	143	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	hl	54	THR	CA-C-N	6.72	129.58	120.44
1	hl	54	THR	C-N-CA	6.72	129.58	120.44
1	ik	191	VAL	CA-C-N	6.72	130.19	120.38
1	ik	191	VAL	C-N-CA	6.72	130.19	120.38
1	im	172	LEU	N-CA-CB	6.72	120.57	110.22
1	je	151	LEU	N-CA-C	6.72	119.44	111.71
1	jf	190	LEU	N-CA-C	6.72	118.60	111.28
1	jx	185	MET	CA-C-O	6.72	127.89	120.63
1	jG	64	ALA	N-CA-C	6.72	118.68	111.36
1	kb	186	THR	N-CA-CB	6.72	119.75	110.01
1	kd	12	HIS	CA-C-O	6.72	127.61	120.36
1	lr	40	PHE	CA-CB-CG	6.72	120.52	113.80
1	2y	10	MET	CA-C-N	6.72	131.77	123.10
1	2y	10	MET	C-N-CA	6.72	131.77	123.10
1	2O	213	GLU	N-CA-C	6.72	118.68	111.36
1	3m	121	ASN	CB-CG-ND2	6.72	126.48	116.40
1	3m	195	ASN	CA-C-N	6.72	128.24	119.84
1	3m	195	ASN	C-N-CA	6.72	128.24	119.84
1	3U	120	HIS	ND1-CE1-NE2	6.72	115.12	108.40
1	76	124	ILE	O-C-N	-6.72	115.72	121.57
1	7a	103	ASP	N-CA-C	6.72	118.60	111.28
1	85	133	TRP	CA-C-N	6.72	129.02	120.56
1	85	133	TRP	C-N-CA	6.72	129.02	120.56
1	8q	132	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	8C	16	SER	CA-C-O	-6.72	114.55	120.19
1	9s	88	ALA	O-C-N	-6.72	113.66	122.59
1	9t	178	SER	CA-C-N	6.72	134.37	121.54
1	9t	178	SER	C-N-CA	6.72	134.37	121.54
1	9B	134	ILE	N-CA-C	6.72	118.28	110.62
1	aK	166	ASP	O-C-N	-6.72	115.10	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b7	62	HIS	N-CA-C	6.72	120.81	111.74
1	bn	38	PRO	N-CA-CB	6.72	110.30	103.25
1	cc	43	LEU	CA-C-N	6.72	133.55	122.73
1	cc	43	LEU	C-N-CA	6.72	133.55	122.73
1	dn	227	LYS	CA-C-N	6.72	132.30	122.63
1	dn	227	LYS	C-N-CA	6.72	132.30	122.63
1	e2	209	ALA	N-CA-C	6.72	118.97	110.24
1	eW	123	PRO	CA-C-O	-6.72	114.00	121.32
1	fH	171	THR	N-CA-CB	6.72	120.00	110.12
1	fM	161	PHE	O-C-N	-6.72	115.15	122.07
1	i	165	VAL	CA-C-N	6.72	129.52	120.65
1	i	165	VAL	C-N-CA	6.72	129.52	120.65
1	X	139	ASN	N-CA-CB	-6.72	100.25	110.12
1	ga	227	LYS	N-CA-C	6.72	118.60	111.28
1	gp	171	THR	CA-C-N	6.72	129.95	120.28
1	gp	171	THR	C-N-CA	6.72	129.95	120.28
1	gq	101	GLY	CA-C-O	-6.72	114.22	120.80
1	gr	112	GLN	N-CA-C	6.72	119.44	111.71
1	gw	214	MET	N-CA-C	6.72	119.17	111.11
1	h1	206	GLY	CA-C-N	6.72	126.31	119.19
1	h1	206	GLY	C-N-CA	6.72	126.31	119.19
1	h6	119	THR	CA-CB-OG1	6.72	119.67	109.60
1	hv	66	MET	O-C-N	-6.72	115.00	122.12
1	hB	153	ILE	CA-C-O	6.72	128.30	120.71
1	hB	161	PHE	CA-C-N	6.72	129.28	120.28
1	hB	161	PHE	C-N-CA	6.72	129.28	120.28
1	hH	168	PHE	CA-C-O	6.72	128.05	121.00
1	hU	130	TYR	CA-C-O	6.72	127.67	120.55
1	i1	180	GLU	CB-CG-CD	6.72	124.02	112.60
1	i3	65	ALA	N-CA-C	6.72	118.68	111.36
1	i5	228	ALA	O-C-N	-6.72	114.75	122.68
1	ir	17	PRO	CA-C-N	6.72	129.28	120.28
1	ir	17	PRO	C-N-CA	6.72	129.28	120.28
1	iM	162	ARG	NE-CZ-NH2	-6.72	113.16	119.20
1	iT	200	THR	N-CA-CB	6.72	119.75	110.01
1	iX	91	ILE	CA-C-O	6.72	127.72	120.53
1	jq	106	GLY	O-C-N	-6.72	113.90	122.43
1	jX	21	ASN	N-CA-C	6.72	119.61	111.82
1	k7	180	GLU	CA-C-N	6.72	129.16	120.56
1	k7	180	GLU	C-N-CA	6.72	129.16	120.56
1	ke	154	ARG	CD-NE-CZ	6.72	133.80	124.40
1	kk	98	GLU	N-CA-C	6.72	118.36	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kz	126	VAL	CA-C-N	6.72	127.39	120.00
1	kz	126	VAL	C-N-CA	6.72	127.39	120.00
1	kQ	169	TYR	N-CA-CB	6.72	119.99	110.12
1	lo	32	PHE	O-C-N	-6.72	113.20	122.20
1	2a	173	ARG	N-CA-C	6.72	119.46	111.33
1	3q	210	THR	CA-C-O	6.72	128.88	121.56
1	3K	86	VAL	CA-C-O	6.72	127.91	120.59
1	3M	41	SER	N-CA-C	6.72	118.68	111.36
1	48	213	GLU	N-CA-C	6.72	118.26	111.07
1	4f	58	THR	CA-C-O	6.72	127.64	119.31
1	4q	170	LYS	CA-C-O	-6.72	113.77	120.82
1	4X	182	LYS	N-CA-C	6.72	118.60	111.28
1	5Z	37	ILE	CA-C-N	6.72	126.50	119.05
1	5Z	37	ILE	C-N-CA	6.72	126.50	119.05
1	64	158	LYS	N-CA-C	-6.72	103.16	112.30
1	6s	143	ARG	NH1-CZ-NH2	-6.72	110.57	119.30
1	6C	215	MET	N-CA-C	6.72	120.73	112.54
1	73	200	THR	CA-C-N	6.72	129.66	120.46
1	73	200	THR	C-N-CA	6.72	129.66	120.46
1	75	47	ALA	CA-C-O	6.72	128.13	120.54
1	7c	187	GLU	N-CA-C	6.72	119.44	111.71
1	7u	10	MET	N-CA-C	6.72	119.71	110.24
1	8k	86	VAL	O-C-N	-6.72	115.29	122.95
1	8x	162	ARG	NE-CZ-NH1	6.72	128.22	121.50
1	8N	134	ILE	CB-CA-C	6.72	120.48	111.88
1	92	67	GLN	N-CA-C	6.72	119.44	111.71
1	9a	173	ARG	CA-C-N	6.72	130.52	120.31
1	9a	173	ARG	C-N-CA	6.72	130.52	120.31
1	9m	163	ASP	CB-CG-OD2	6.72	133.85	118.40
1	9B	141	ILE	N-CA-C	6.72	117.47	110.62
1	9I	44	SER	CA-C-O	6.72	127.41	119.28
1	10	178	SER	CA-C-N	6.72	129.28	120.28
1	10	178	SER	C-N-CA	6.72	129.28	120.28
1	12	11	VAL	CA-C-O	6.72	126.60	120.96
1	av	135	ILE	N-CA-C	6.72	117.47	110.62
1	aU	15	ILE	CA-C-N	6.72	130.03	120.49
1	aU	15	ILE	C-N-CA	6.72	130.03	120.49
1	b1	106	GLY	CA-C-N	6.72	129.28	120.28
1	b1	106	GLY	C-N-CA	6.72	129.28	120.28
1	b8	204	ALA	CA-C-N	6.72	129.28	120.28
1	b8	204	ALA	C-N-CA	6.72	129.28	120.28
1	bl	20	LEU	CA-C-O	-6.72	113.77	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bs	117	TRP	N-CA-C	6.72	118.60	111.28
1	bv	47	ALA	O-C-N	-6.72	114.61	122.87
1	bD	60	GLY	O-C-N	-6.72	113.97	122.70
1	bF	10	MET	N-CA-C	6.72	119.97	110.23
1	1b	220	GLY	O-C-N	-6.72	115.41	122.60
1	c7	121	ASN	CA-CB-CG	6.72	119.32	112.60
1	cR	160	PRO	N-CA-CB	-6.72	96.20	103.25
1	cT	13	GLN	OE1-CD-NE2	-6.72	115.88	122.60
1	dc	117	TRP	CA-C-N	6.72	129.28	120.28
1	dc	117	TRP	C-N-CA	6.72	129.28	120.28
1	dl	77	ALA	CA-C-N	6.72	130.52	120.31
1	dl	77	ALA	C-N-CA	6.72	130.52	120.31
1	dR	95	GLN	OE1-CD-NE2	-6.72	115.88	122.60
1	dX	111	LEU	CA-C-O	6.72	127.69	119.97
1	dY	32	PHE	CA-CB-CG	-6.72	107.08	113.80
1	ea	84	HIS	CA-C-N	6.72	127.11	119.92
1	ea	84	HIS	C-N-CA	6.72	127.11	119.92
1	fm	5	ASN	CA-CB-CG	-6.72	105.88	112.60
1	fA	169	TYR	CB-CA-C	-6.72	99.64	110.79
1	c	84	HIS	CE1-NE2-CD2	-6.72	102.28	109.00
1	B	154	ARG	CB-CG-CD	6.72	126.75	111.30
1	E	89	GLY	O-C-N	-6.72	115.05	121.77
1	N	167	ARG	CA-C-N	6.72	129.17	120.44
1	N	167	ARG	C-N-CA	6.72	129.17	120.44
1	ge	110	THR	CB-CA-C	6.71	121.66	109.37
1	gj	120	HIS	ND1-CE1-NE2	6.71	115.11	108.40
1	gJ	157	PRO	O-C-N	-6.71	113.58	122.64
1	hm	188	THR	CA-CB-OG1	6.71	119.67	109.60
1	i3	36	VAL	CA-C-N	6.71	126.88	120.43
1	i3	36	VAL	C-N-CA	6.71	126.88	120.43
1	il	168	PHE	CA-CB-CG	6.71	120.51	113.80
1	1S	62	HIS	CB-CA-C	6.71	120.86	111.86
1	1S	136	LEU	O-C-N	-6.71	115.15	122.07
1	1U	134	ILE	O-C-N	-6.71	115.33	121.91
1	jd	59	VAL	N-CA-C	6.71	118.25	108.58
1	jz	121	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	jC	53	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	jK	51	ASP	CA-C-N	6.71	129.17	120.44
1	jK	51	ASP	C-N-CA	6.71	129.17	120.44
1	jK	140	LYS	N-CA-C	6.71	118.25	111.07
1	jU	111	LEU	CA-C-N	6.71	129.28	120.28
1	jU	111	LEU	C-N-CA	6.71	129.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kE	49	PRO	CA-C-N	6.71	129.28	120.28
1	kE	49	PRO	C-N-CA	6.71	129.28	120.28
1	l6	86	VAL	CA-C-N	6.71	132.55	122.68
1	l6	86	VAL	C-N-CA	6.71	132.55	122.68
1	lo	120	HIS	ND1-CE1-NE2	6.71	115.11	108.40
1	2h	181	VAL	N-CA-CB	6.71	118.41	110.55
1	37	39	MET	N-CA-C	6.71	119.17	111.11
1	3f	134	ILE	CA-C-N	6.71	129.02	120.56
1	3f	134	ILE	C-N-CA	6.71	129.02	120.56
1	3h	222	GLY	O-C-N	-6.71	115.50	122.68
1	3k	147	PRO	N-CA-C	6.71	126.30	112.47
1	3s	186	THR	O-C-N	6.71	129.01	122.03
1	3P	63	GLN	CA-C-O	-6.71	113.43	120.55
1	4d	171	THR	CA-C-O	6.71	127.69	119.97
1	4j	53	ASN	CA-CB-CG	-6.71	105.89	112.60
1	4P	130	TYR	CA-C-N	6.71	129.58	120.38
1	4P	130	TYR	C-N-CA	6.71	129.58	120.38
1	5a	64	ALA	CA-C-N	6.71	129.28	120.28
1	5a	64	ALA	C-N-CA	6.71	129.28	120.28
1	69	37	ILE	O-C-N	-6.71	116.12	120.42
1	6h	213	GLU	CA-C-O	-6.71	113.30	120.42
1	6J	84	HIS	CA-CB-CG	6.71	120.52	113.80
1	73	62	HIS	N-CA-C	6.71	120.43	111.30
1	76	118	MET	N-CA-CB	6.71	120.64	110.30
1	77	176	GLN	CB-CA-C	-6.71	99.21	110.56
1	78	14	ALA	CA-C-N	6.71	134.06	121.97
1	78	14	ALA	C-N-CA	6.71	134.06	121.97
1	7a	10	MET	N-CA-C	6.71	119.97	110.23
1	7h	37	ILE	N-CA-C	6.71	121.06	112.67
1	7u	58	THR	CA-C-N	6.71	131.25	121.18
1	7u	58	THR	C-N-CA	6.71	131.25	121.18
1	7L	191	VAL	N-CA-CB	-6.71	103.35	112.28
1	8z	212	GLU	N-CA-C	-6.71	103.89	111.07
1	9b	50	GLN	CA-C-N	6.71	131.92	120.71
1	9b	50	GLN	C-N-CA	6.71	131.92	120.71
1	9q	190	LEU	CA-C-N	6.71	129.16	120.56
1	9q	190	LEU	C-N-CA	6.71	129.16	120.56
1	9z	86	VAL	N-CA-CB	6.71	119.83	110.56
1	Y	214	MET	N-CA-C	6.71	118.60	111.28
1	9S	148	THR	O-C-N	-6.71	115.83	123.48
1	aJ	104	ILE	CA-C-O	6.71	128.18	119.85
1	aT	27	VAL	CB-CA-C	6.71	120.84	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b4	153	ILE	CB-CA-C	6.71	118.94	111.08
1	bf	201	ILE	CA-C-O	6.71	128.29	121.17
1	bg	113	GLU	N-CA-CB	6.71	120.10	110.16
1	bK	50	GLN	O-C-N	-6.71	115.00	122.12
1	bK	163	ASP	CA-CB-CG	-6.71	105.89	112.60
1	bN	189	LEU	CA-C-N	6.71	129.17	120.44
1	bN	189	LEU	C-N-CA	6.71	129.17	120.44
1	c1	46	GLY	CA-C-N	6.71	130.35	120.95
1	c1	46	GLY	C-N-CA	6.71	130.35	120.95
1	cw	127	GLY	CA-C-N	6.71	129.95	120.28
1	cw	127	GLY	C-N-CA	6.71	129.95	120.28
1	cC	150	ILE	CA-C-N	6.71	134.47	121.18
1	cC	150	ILE	C-N-CA	6.71	134.47	121.18
1	1k	223	GLY	CA-C-N	6.71	126.67	119.28
1	1k	223	GLY	C-N-CA	6.71	126.67	119.28
1	eK	80	TRP	N-CA-C	6.71	118.68	111.36
1	f8	87	HIS	ND1-CE1-NE2	6.71	115.11	108.40
1	fi	139	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	fp	51	ASP	CA-C-N	6.71	129.60	120.54
1	fp	51	ASP	C-N-CA	6.71	129.60	120.54
1	fQ	108	THR	CB-CA-C	-6.71	100.21	111.02
1	fV	149	SER	CA-C-O	-6.71	113.06	120.38
1	e	121	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	j	128	GLU	O-C-N	6.71	129.24	122.12
1	o	92	GLU	CA-C-O	-6.71	113.38	120.70
1	u	167	ARG	NH1-CZ-NH2	-6.71	110.57	119.30
1	N	139	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	gR	224	PRO	CA-C-N	6.71	129.81	122.16
1	gR	224	PRO	C-N-CA	6.71	129.81	122.16
1	hV	193	ASN	CA-CB-CG	-6.71	105.89	112.60
1	1N	183	ASN	CA-CB-CG	-6.71	105.89	112.60
1	iy	150	ILE	O-C-N	-6.71	114.86	122.04
1	jB	123	PRO	CB-CA-C	6.71	119.82	111.23
1	k3	68	MET	O-C-N	-6.71	114.37	122.22
1	ka	51	ASP	O-C-N	-6.71	114.50	122.15
1	kl	8	GLY	CA-C-O	6.71	127.65	120.40
1	kP	31	ALA	CB-CA-C	-6.71	108.82	116.54
1	26	214	MET	N-CA-C	6.71	118.68	111.36
1	2y	103	ASP	CA-CB-CG	6.71	119.31	112.60
1	3X	98	GLU	CA-C-O	-6.71	113.38	120.23
1	3X	112	GLN	CA-C-O	6.71	127.88	120.63
1	40	55	MET	O-C-N	-6.71	115.00	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	49	70	LYS	CA-C-O	-6.71	113.30	120.42
1	4M	54	THR	CA-C-N	6.71	129.17	120.44
1	4M	54	THR	C-N-CA	6.71	129.17	120.44
1	64	143	ARG	NH1-CZ-NH2	-6.71	110.57	119.30
1	6s	51	ASP	N-CA-C	6.71	118.68	111.36
1	75	82	ARG	CA-C-N	6.71	129.82	120.29
1	75	82	ARG	C-N-CA	6.71	129.82	120.29
1	7c	18	ARG	NH1-CZ-NH2	-6.71	110.57	119.30
1	7g	164	TYR	CA-C-N	6.71	129.66	120.46
1	7g	164	TYR	C-N-CA	6.71	129.66	120.46
1	8d	178	SER	N-CA-C	6.71	119.48	110.35
1	94	69	LEU	N-CA-C	6.71	118.60	111.28
1	9r	154	ARG	CD-NE-CZ	-6.71	115.00	124.40
1	9B	197	ASP	N-CA-CB	-6.71	99.94	109.94
1	bo	226	HIS	CE1-NE2-CD2	-6.71	102.29	109.00
1	bz	205	LEU	CA-C-N	6.71	132.41	121.87
1	bz	205	LEU	C-N-CA	6.71	132.41	121.87
1	bJ	37	ILE	N-CA-C	6.71	120.41	112.35
1	cw	154	ARG	CA-C-O	6.71	128.49	121.31
1	cW	73	ILE	CA-C-N	6.71	129.95	120.28
1	cW	73	ILE	C-N-CA	6.71	129.95	120.28
1	d5	143	ARG	CD-NE-CZ	6.71	133.80	124.40
1	dj	185	MET	O-C-N	-6.71	114.90	122.08
1	ek	55	MET	N-CA-C	6.71	118.68	111.36
1	eZ	148	THR	N-CA-CB	6.71	121.35	110.41
1	f5	120	HIS	CE1-NE2-CD2	-6.71	102.29	109.00
1	gp	30	LYS	O-C-N	-6.71	113.66	122.59
1	1E	78	ALA	CA-C-N	6.71	129.27	120.28
1	1E	78	ALA	C-N-CA	6.71	129.27	120.28
1	h1	33	SER	CA-C-N	6.71	128.23	119.84
1	h1	33	SER	C-N-CA	6.71	128.23	119.84
1	hG	131	LYS	N-CA-C	6.71	118.25	111.07
1	hQ	141	ILE	N-CA-CB	6.71	118.40	110.55
1	iU	90	PRO	CA-C-O	-6.71	114.00	121.32
1	jd	167	ARG	CA-C-N	6.71	129.17	120.44
1	jd	167	ARG	C-N-CA	6.71	129.17	120.44
1	jo	150	ILE	CA-C-N	6.71	129.27	120.28
1	jo	150	ILE	C-N-CA	6.71	129.27	120.28
1	jN	48	THR	O-C-N	-6.71	113.46	121.31
1	jU	42	ALA	N-CA-C	6.71	119.16	111.11
1	k0	62	HIS	CB-CG-CD2	-6.71	122.47	131.20
1	k7	226	HIS	CB-CG-CD2	-6.71	122.48	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	39	MET	O-C-N	-6.71	115.00	122.12
1	ku	187	GLU	N-CA-C	6.71	119.61	111.82
1	kG	76	GLU	CA-C-N	6.71	129.28	120.28
1	kG	76	GLU	C-N-CA	6.71	129.28	120.28
1	l4	227	LYS	CA-C-N	6.71	130.69	120.82
1	l4	227	LYS	C-N-CA	6.71	130.69	120.82
1	lg	68	MET	N-CA-C	6.71	119.45	111.33
1	ln	86	VAL	N-CA-C	6.71	117.79	110.21
1	lO	178	SER	N-CA-CB	6.71	121.83	110.49
1	2m	22	ALA	N-CA-CB	6.71	119.74	110.01
1	2I	121	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	2M	5	ASN	OD1-CG-ND2	6.71	129.31	122.60
1	2N	210	THR	N-CA-C	6.71	119.70	110.24
1	2V	104	ILE	CA-C-N	6.71	130.51	120.31
1	2V	104	ILE	C-N-CA	6.71	130.51	120.31
1	39	69	LEU	O-C-N	6.71	128.98	122.07
1	3y	166	ASP	O-C-N	-6.71	115.16	122.07
1	3F	167	ARG	CA-C-N	6.71	130.12	120.79
1	3F	167	ARG	C-N-CA	6.71	130.12	120.79
1	3P	89	GLY	CA-C-N	6.71	128.23	119.84
1	3P	89	GLY	C-N-CA	6.71	128.23	119.84
1	4Y	182	LYS	N-CA-C	6.71	119.61	111.82
1	50	162	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	5o	77	ALA	CA-C-N	6.71	129.27	120.28
1	5o	77	ALA	C-N-CA	6.71	129.27	120.28
1	5v	147	PRO	CA-C-O	6.71	125.96	118.38
1	5H	132	ARG	N-CA-C	6.71	119.45	111.33
1	5S	148	THR	CB-CA-C	6.71	117.82	109.16
1	5Z	2	ILE	CA-C-O	6.71	127.59	120.48
1	60	71	GLU	CA-C-N	6.71	129.28	120.28
1	60	71	GLU	C-N-CA	6.71	129.28	120.28
1	6A	143	ARG	NE-CZ-NH2	6.71	125.24	119.20
1	6J	226	HIS	CA-CB-CG	-6.71	107.09	113.80
1	6Q	200	THR	O-C-N	6.71	131.11	122.39
1	74	203	LYS	N-CA-C	6.71	118.25	111.07
1	7f	7	GLN	CA-C-O	6.71	127.77	119.78
1	7l	183	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	7A	119	THR	N-CA-C	-6.71	105.25	113.50
1	8b	24	VAL	CA-C-N	6.71	129.28	120.28
1	8b	24	VAL	C-N-CA	6.71	129.28	120.28
1	8A	101	GLY	N-CA-C	6.71	121.02	112.83
1	9P	63	GLN	CG-CD-NE2	6.71	126.47	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9S	21	ASN	CA-C-N	6.71	129.16	120.44
1	9S	21	ASN	C-N-CA	6.71	129.16	120.44
1	ak	27	VAL	CA-C-N	6.71	129.16	120.44
1	ak	27	VAL	C-N-CA	6.71	129.16	120.44
1	au	104	ILE	N-CA-C	6.71	117.41	110.36
1	16	216	THR	N-CA-C	-6.71	103.40	112.26
1	bB	142	VAL	N-CA-C	6.71	117.47	110.62
1	bG	92	GLU	N-CA-C	6.71	117.32	109.60
1	1a	198	CYS	CA-C-N	6.71	129.94	120.28
1	1a	198	CYS	C-N-CA	6.71	129.94	120.28
1	c3	69	LEU	N-CA-C	6.71	118.25	111.07
1	dc	77	ALA	CA-C-O	6.71	127.87	120.82
1	dm	171	THR	N-CA-CB	6.71	119.99	110.12
1	dB	121	ASN	O-C-N	-6.71	114.94	121.38
1	dB	175	GLU	O-C-N	-6.71	115.38	122.96
1	es	98	GLU	CA-C-O	6.71	126.14	119.49
1	ew	2	ILE	CA-C-N	6.71	131.19	121.80
1	ew	2	ILE	C-N-CA	6.71	131.19	121.80
1	f0	227	LYS	N-CA-C	-6.71	104.57	112.89
1	fl	50	GLN	CA-C-N	6.71	129.27	120.28
1	fl	50	GLN	C-N-CA	6.71	129.27	120.28
1	fr	70	LYS	CA-C-N	6.71	129.57	120.38
1	fr	70	LYS	C-N-CA	6.71	129.57	120.38
1	fC	76	GLU	N-CA-C	6.71	118.67	111.36
1	fH	167	ARG	N-CA-C	-6.71	103.96	111.28
1	fS	51	ASP	CA-CB-CG	6.71	119.31	112.60
1	t	123	PRO	CA-C-N	6.71	127.16	122.60
1	t	123	PRO	C-N-CA	6.71	127.16	122.60
1	N	121	ASN	CA-CB-CG	6.71	119.31	112.60
1	h7	68	MET	CG-SD-CE	-6.71	86.14	100.90
1	hk	117	TRP	CA-C-N	6.71	129.27	120.28
1	hk	117	TRP	C-N-CA	6.71	129.27	120.28
1	1J	194	ALA	CA-C-N	6.71	130.02	120.49
1	1J	194	ALA	C-N-CA	6.71	130.02	120.49
1	1L	142	VAL	N-CA-CB	6.71	119.67	110.54
1	j0	18	ARG	NE-CZ-NH2	6.71	125.24	119.20
1	j0	138	LEU	N-CA-CB	6.71	119.98	110.12
1	k2	41	SER	N-CA-C	6.71	118.25	111.07
1	kW	110	THR	CA-C-N	6.71	129.27	120.28
1	kW	110	THR	C-N-CA	6.71	129.27	120.28
1	kW	111	LEU	N-CA-C	6.71	118.59	111.28
1	lH	149	SER	O-C-N	-6.71	114.63	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2p	36	VAL	CA-C-N	6.71	126.87	120.43
1	2p	36	VAL	C-N-CA	6.71	126.87	120.43
1	2y	102	SER	O-C-N	-6.71	115.01	122.12
1	34	54	THR	O-C-N	-6.71	115.16	122.07
1	3v	86	VAL	N-CA-C	6.71	117.53	107.80
1	3R	39	MET	N-CA-CB	6.71	119.74	110.01
1	4K	120	HIS	N-CA-C	6.71	119.39	110.53
1	5P	23	TRP	CB-CG-CD2	6.71	136.19	126.80
1	6C	208	ALA	O-C-N	-6.71	113.53	122.19
1	6L	89	GLY	O-C-N	6.71	128.48	121.77
1	7b	82	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	9T	119	THR	N-CA-CB	6.71	119.71	109.91
1	b0	50	GLN	CA-C-O	-6.71	113.78	120.82
1	b3	100	ARG	O-C-N	-6.71	113.88	122.20
1	c5	166	ASP	N-CA-C	6.71	122.44	111.37
1	ck	82	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	cO	206	GLY	O-C-N	-6.71	115.06	121.77
1	eb	50	GLN	CA-C-O	6.71	127.66	120.55
1	eJ	182	LYS	N-CA-C	6.71	118.25	111.07
1	fL	176	GLN	CA-C-N	6.71	130.88	120.75
1	fL	176	GLN	C-N-CA	6.71	130.88	120.75
1	s	18	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	ge	180	GLU	N-CA-C	6.71	118.59	111.28
1	gi	84	HIS	ND1-CE1-NE2	6.71	115.11	108.40
1	gq	97	ARG	N-CA-C	6.71	119.96	110.23
1	gE	96	MET	N-CA-C	6.71	120.17	109.24
1	gW	221	VAL	CA-C-N	6.71	126.47	120.10
1	gW	221	VAL	C-N-CA	6.71	126.47	120.10
1	hg	109	SER	O-C-N	-6.71	115.38	123.10
1	hk	132	ARG	NH1-CZ-NH2	-6.71	110.58	119.30
1	hy	215	MET	CA-C-O	6.71	127.86	120.82
1	hz	183	ASN	CA-CB-CG	-6.71	105.89	112.60
1	1M	195	ASN	CA-C-N	6.71	126.97	119.32
1	1M	195	ASN	C-N-CA	6.71	126.97	119.32
1	iR	7	GLN	N-CA-C	6.71	120.91	111.92
1	iU	195	ASN	N-CA-CB	6.71	120.51	109.98
1	iW	193	ASN	CA-CB-CG	-6.71	105.89	112.60
1	j0	135	ILE	CA-CB-CG1	6.71	121.81	110.40
1	j8	106	GLY	CA-C-O	6.71	126.58	119.07
1	jo	146	SER	CA-C-N	6.71	126.85	119.87
1	jo	146	SER	C-N-CA	6.71	126.85	119.87
1	jV	138	LEU	CA-C-N	6.71	129.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jV	138	LEU	C-N-CA	6.71	129.27	120.28
1	1Z	9	GLN	CA-C-N	6.71	130.24	120.71
1	1Z	9	GLN	C-N-CA	6.71	130.24	120.71
1	1Z	124	ILE	N-CA-C	-6.71	100.42	107.60
1	k0	12	HIS	CA-CB-CG	6.71	120.51	113.80
1	k4	135	ILE	CA-C-N	6.71	129.27	120.28
1	k4	135	ILE	C-N-CA	6.71	129.27	120.28
1	25	146	SER	N-CA-C	6.71	118.16	109.64
1	l3	185	MET	CG-SD-CE	-6.71	86.14	100.90
1	2C	192	GLN	N-CA-C	6.71	119.43	111.71
1	3h	125	PRO	CA-C-N	6.71	131.07	120.47
1	3h	125	PRO	C-N-CA	6.71	131.07	120.47
1	3A	123	PRO	N-CA-CB	6.71	108.95	103.32
1	3D	100	ARG	NE-CZ-NH2	6.71	125.24	119.20
1	3I	72	THR	CA-C-O	6.71	127.86	120.82
1	3S	173	ARG	NE-CZ-NH2	-6.71	113.16	119.20
1	44	226	HIS	CE1-NE2-CD2	-6.71	102.29	109.00
1	49	159	GLU	CA-C-O	-6.71	113.72	119.36
1	4w	87	HIS	CE1-NE2-CD2	-6.71	102.29	109.00
1	4B	103	ASP	CA-C-N	6.71	129.65	120.46
1	4B	103	ASP	C-N-CA	6.71	129.65	120.46
1	5z	24	VAL	O-C-N	-6.71	115.36	121.87
1	5J	84	HIS	CA-CB-CG	6.71	120.51	113.80
1	5Y	158	LYS	N-CA-C	-6.71	102.39	110.44
1	60	86	VAL	O-C-N	-6.71	115.59	123.04
1	6f	167	ARG	NH1-CZ-NH2	-6.71	110.58	119.30
1	72	44	SER	CA-C-N	6.71	130.28	120.82
1	72	44	SER	C-N-CA	6.71	130.28	120.82
1	7j	30	LYS	CA-C-N	6.71	129.57	120.38
1	7j	30	LYS	C-N-CA	6.71	129.57	120.38
1	7m	168	PHE	CA-CB-CG	-6.71	107.09	113.80
1	7n	29	GLU	N-CA-C	6.71	119.60	111.82
1	7q	228	ALA	O-C-N	-6.71	115.38	122.96
1	7W	27	VAL	CA-C-N	6.71	129.60	120.54
1	7W	27	VAL	C-N-CA	6.71	129.60	120.54
1	8h	177	ALA	N-CA-CB	6.71	121.83	110.49
1	8q	149	SER	CA-C-O	6.71	129.02	120.57
1	8C	52	LEU	O-C-N	-6.71	114.50	122.15
1	9h	219	GLN	O-C-N	-6.71	115.19	123.04
1	9m	28	GLU	N-CA-C	6.71	119.16	111.11
1	9w	146	SER	CA-C-N	6.71	128.22	119.84
1	9w	146	SER	C-N-CA	6.71	128.22	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	28	GLU	O-C-N	-6.71	114.90	122.08
1	ag	2	ILE	O-C-N	-6.71	115.36	122.81
1	15	153	ILE	CA-C-O	6.71	128.29	120.71
1	bE	163	ASP	CA-C-O	6.71	127.66	120.55
1	c7	107	THR	N-CA-C	-6.71	102.38	112.04
1	1d	52	LEU	CA-C-O	-6.71	113.44	120.55
1	cX	17	PRO	N-CA-C	-6.71	104.78	113.57
1	d2	102	SER	O-C-N	-6.71	114.37	122.22
1	dv	153	ILE	N-CA-C	6.71	117.69	109.30
1	dJ	65	ALA	O-C-N	6.71	129.23	122.12
1	f0	59	VAL	N-CA-CB	-6.71	102.08	110.47
1	1w	33	SER	N-CA-C	-6.71	102.10	108.07
1	fP	161	PHE	CB-CA-C	-6.71	99.70	110.84
1	a	209	ALA	N-CA-C	6.71	120.02	109.96
1	t	197	ASP	CA-CB-CG	-6.71	105.89	112.60
1	F	66	MET	N-CA-C	6.71	118.59	111.28
1	gn	179	GLN	CA-C-O	6.71	127.66	120.55
1	gX	206	GLY	CA-C-N	6.71	126.33	119.56
1	gX	206	GLY	C-N-CA	6.71	126.33	119.56
1	hF	122	PRO	CA-C-N	6.71	126.69	119.78
1	hF	122	PRO	C-N-CA	6.71	126.69	119.78
1	hK	46	GLY	O-C-N	-6.71	114.67	122.31
1	iW	154	ARG	NH1-CZ-NH2	-6.71	110.58	119.30
1	j4	4	GLN	N-CA-CB	6.71	121.83	110.49
1	jk	26	VAL	CA-C-N	6.71	129.94	120.42
1	jk	26	VAL	C-N-CA	6.71	129.94	120.42
1	jq	187	GLU	CA-C-N	6.71	129.16	120.44
1	jq	187	GLU	C-N-CA	6.71	129.16	120.44
1	kk	176	GLN	N-CA-C	-6.71	104.72	113.17
1	kx	192	GLN	CA-C-O	6.71	126.80	119.15
1	kG	173	ARG	NE-CZ-NH2	-6.71	113.17	119.20
1	kP	211	LEU	N-CA-CB	6.71	119.73	110.01
1	l1	226	HIS	CA-CB-CG	-6.71	107.09	113.80
1	l7	10	MET	N-CA-C	6.71	118.66	110.41
1	lC	190	LEU	CA-C-N	6.71	129.01	120.56
1	lC	190	LEU	C-N-CA	6.71	129.01	120.56
1	lJ	84	HIS	ND1-CE1-NE2	6.71	115.11	108.40
1	2h	162	ARG	CD-NE-CZ	-6.71	115.01	124.40
1	2S	53	ASN	OD1-CG-ND2	-6.71	115.89	122.60
1	2T	13	GLN	CA-C-N	6.71	130.28	120.82
1	2T	13	GLN	C-N-CA	6.71	130.28	120.82
1	3j	97	ARG	CA-C-N	6.71	130.24	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	97	ARG	C-N-CA	6.71	130.24	120.51
1	3E	161	PHE	O-C-N	6.71	129.23	122.12
1	3R	73	ILE	CA-CB-CG2	6.71	121.90	110.50
1	3W	70	LYS	N-CA-C	6.71	118.59	111.28
1	4p	74	ASN	CA-C-N	6.71	129.56	120.44
1	4p	74	ASN	C-N-CA	6.71	129.56	120.44
1	4s	178	SER	CA-C-N	6.71	129.27	120.28
1	4s	178	SER	C-N-CA	6.71	129.27	120.28
1	4w	13	GLN	N-CA-C	6.71	119.13	109.14
1	4y	38	PRO	CA-C-N	6.71	129.57	120.38
1	4y	38	PRO	C-N-CA	6.71	129.57	120.38
1	5i	19	THR	N-CA-C	6.71	118.59	111.28
1	5K	134	ILE	N-CA-C	6.71	117.46	110.62
1	5L	10	MET	CG-SD-CE	-6.71	86.15	100.90
1	5P	129	ILE	N-CA-C	6.71	116.86	110.42
1	65	110	THR	CA-C-O	6.71	129.65	121.94
1	66	192	GLN	OE1-CD-NE2	-6.71	115.89	122.60
1	6l	192	GLN	N-CA-C	6.71	118.59	111.28
1	6p	85	PRO	CA-C-N	6.71	131.24	121.18
1	6p	85	PRO	C-N-CA	6.71	131.24	121.18
1	6T	214	MET	N-CA-C	6.71	118.25	111.07
1	76	63	GLN	N-CA-C	6.71	119.60	111.82
1	7a	42	ALA	O-C-N	-6.71	115.01	122.12
1	7s	163	ASP	CA-CB-CG	6.71	119.31	112.60
1	8i	229	ARG	O-C-N	-6.71	115.56	123.41
1	8n	138	LEU	N-CA-C	6.71	118.25	111.07
1	8q	74	ASN	CA-CB-CG	6.71	119.31	112.60
1	8u	23	TRP	N-CA-C	6.71	118.25	111.07
1	8M	144	MET	O-C-N	-6.71	113.96	122.34
1	8P	153	ILE	N-CA-C	-6.71	104.97	113.22
1	8V	109	SER	CA-C-O	6.71	128.74	121.16
1	8Y	64	ALA	N-CA-C	6.71	118.59	111.28
1	9x	175	GLU	CA-C-O	-6.71	113.81	121.19
1	9A	87	HIS	CA-CB-CG	6.71	120.51	113.80
1	9B	83	LEU	O-C-N	6.71	129.23	122.12
1	9C	112	GLN	N-CA-C	6.71	118.59	111.28
1	ab	35	GLU	CA-C-O	6.71	127.63	119.31
1	as	198	CYS	CA-C-N	6.71	129.27	120.28
1	as	198	CYS	C-N-CA	6.71	129.27	120.28
1	az	195	ASN	CB-CA-C	6.71	119.95	109.42
1	aZ	59	VAL	N-CA-C	6.71	117.74	108.89
1	1d	11	VAL	O-C-N	-6.71	116.00	122.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ck	173	ARG	NE-CZ-NH2	6.71	125.24	119.20
1	cJ	164	TYR	CA-C-O	6.71	128.08	120.90
1	cP	202	LEU	N-CA-C	6.71	118.59	111.28
1	d7	226	HIS	O-C-N	-6.71	114.62	122.87
1	dd	202	LEU	N-CA-C	6.71	120.72	112.54
1	dw	228	ALA	N-CA-CB	-6.71	100.58	110.10
1	dO	173	ARG	NE-CZ-NH2	-6.71	113.17	119.20
1	dS	161	PHE	CA-C-N	6.71	129.16	120.44
1	dS	161	PHE	C-N-CA	6.71	129.16	120.44
1	e5	33	SER	O-C-N	-6.71	117.42	121.71
1	eo	184	TRP	CA-C-O	6.71	127.66	120.55
1	es	7	GLN	CA-C-N	-6.71	117.00	122.16
1	es	7	GLN	C-N-CA	-6.71	117.00	122.16
1	eI	137	GLY	O-C-N	-6.71	115.75	122.19
1	fs	78	ALA	CA-C-N	6.71	129.81	120.29
1	fs	78	ALA	C-N-CA	6.71	129.81	120.29
1	fA	117	TRP	O-C-N	-6.71	115.01	122.12
1	fI	42	ALA	O-C-N	-6.71	114.91	122.08
1	fK	186	THR	N-CA-CB	6.71	119.98	110.12
1	fP	76	GLU	N-CA-C	6.71	118.67	111.36
1	fS	219	GLN	N-CA-C	6.71	121.55	113.23
1	g7	132	ARG	O-C-N	-6.71	115.16	122.07
1	g	98	GLU	N-CA-C	6.71	119.36	109.50
1	gp	90	PRO	CA-C-N	6.71	129.55	120.63
1	gp	90	PRO	C-N-CA	6.71	129.55	120.63
1	gM	55	MET	CB-CA-C	-6.71	100.35	110.88
1	gO	141	ILE	N-CA-C	-6.71	103.98	110.42
1	h7	180	GLU	CA-C-O	6.71	127.11	119.27
1	hp	35	GLU	CA-C-N	6.71	129.65	120.46
1	hp	35	GLU	C-N-CA	6.71	129.65	120.46
1	hD	87	HIS	CG-CD2-NE2	6.71	113.91	107.20
1	k9	144	MET	CA-C-O	6.71	127.53	120.42
1	kO	65	ALA	N-CA-CB	6.71	119.93	109.94
1	l0	14	ALA	N-CA-C	6.71	119.47	110.35
1	lr	108	THR	CA-C-O	6.71	127.30	119.32
1	lL	96	MET	N-CA-CB	6.71	121.09	110.23
1	3a	121	ASN	O-C-N	-6.71	112.20	121.12
1	3m	116	GLY	CA-C-N	6.71	129.26	120.28
1	3m	116	GLY	C-N-CA	6.71	129.26	120.28
1	3W	187	GLU	CA-C-O	6.71	127.53	120.42
1	4G	186	THR	CA-CB-CG2	6.71	121.90	110.50
1	4X	62	HIS	CB-CG-CD2	-6.71	122.48	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	53	63	GLN	N-CA-C	6.71	119.44	111.33
1	54	66	MET	CA-C-N	6.71	129.26	120.28
1	54	66	MET	C-N-CA	6.71	129.26	120.28
1	5Q	154	ARG	NE-CZ-NH2	-6.71	113.17	119.20
1	6M	122	PRO	CA-C-N	6.71	126.62	119.85
1	6M	122	PRO	C-N-CA	6.71	126.62	119.85
1	6Q	192	GLN	OE1-CD-NE2	-6.71	115.89	122.60
1	6U	36	VAL	CA-C-N	6.71	126.87	120.43
1	6U	36	VAL	C-N-CA	6.71	126.87	120.43
1	6Y	211	LEU	N-CA-C	6.71	119.42	111.71
1	73	124	ILE	N-CA-CB	6.71	118.64	111.20
1	8b	116	GLY	CA-C-O	6.71	127.37	120.80
1	8X	23	TRP	N-CA-C	6.71	118.24	111.07
1	99	10	MET	N-CA-C	6.71	119.74	110.35
1	9d	221	VAL	N-CA-C	6.71	119.10	109.51
1	9p	84	HIS	N-CA-C	6.71	124.63	109.81
1	aq	41	SER	O-C-N	-6.71	115.01	122.12
1	bc	47	ALA	N-CA-C	6.71	119.47	110.35
1	bo	136	LEU	CA-C-N	6.71	127.38	119.94
1	bo	136	LEU	C-N-CA	6.71	127.38	119.94
1	bK	84	HIS	CB-CG-CD2	-6.71	122.48	131.20
1	cb	56	LEU	N-CA-C	6.71	119.42	111.71
1	cd	194	ALA	CA-C-N	6.71	131.59	120.86
1	cd	194	ALA	C-N-CA	6.71	131.59	120.86
1	cz	175	GLU	CA-C-O	6.71	128.67	121.16
1	cQ	113	GLU	CA-C-N	6.71	129.16	120.44
1	cQ	113	GLU	C-N-CA	6.71	129.16	120.44
1	dY	167	ARG	NE-CZ-NH1	6.71	128.21	121.50
1	ed	62	HIS	N-CA-C	6.71	120.66	111.54
1	fb	181	VAL	CA-C-N	6.71	129.16	120.44
1	fb	181	VAL	C-N-CA	6.71	129.16	120.44
1	fN	68	MET	N-CA-C	6.71	118.25	111.07
1	fT	71	GLU	CA-C-N	6.71	130.50	120.31
1	fT	71	GLU	C-N-CA	6.71	130.50	120.31
1	h	180	GLU	CB-CG-CD	6.71	124.00	112.60
1	J	199	LYS	CA-C-N	6.71	129.26	120.28
1	J	199	LYS	C-N-CA	6.71	129.26	120.28
1	M	129	ILE	CA-C-O	-6.71	114.30	121.27
1	7	19	THR	CA-C-N	6.71	129.16	120.44
1	7	19	THR	C-N-CA	6.71	129.16	120.44
1	gy	16	SER	CA-C-N	6.70	126.30	119.19
1	gy	16	SER	C-N-CA	6.70	126.30	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gQ	98	GLU	O-C-N	-6.70	114.16	121.53
1	gY	195	ASN	N-CA-C	6.70	118.15	109.64
1	h6	129	ILE	CA-C-O	6.70	128.28	121.17
1	hc	115	ILE	CA-C-N	6.70	127.56	119.99
1	hc	115	ILE	C-N-CA	6.70	127.56	119.99
1	hp	210	THR	CA-CB-OG1	6.70	119.66	109.60
1	hA	215	MET	CB-CA-C	-6.70	97.80	110.67
1	i9	87	HIS	CB-CG-ND1	6.70	132.75	122.70
1	iq	54	THR	N-CA-C	6.70	118.24	111.07
1	iz	146	SER	O-C-N	-6.70	115.33	121.30
1	iV	188	THR	OG1-CB-CG2	-6.70	95.89	109.30
1	j4	101	GLY	CA-C-N	6.70	129.26	120.28
1	j4	101	GLY	C-N-CA	6.70	129.26	120.28
1	jh	27	VAL	CB-CA-C	6.70	121.19	112.14
1	jr	41	SER	CA-C-N	6.70	129.26	120.28
1	jr	41	SER	C-N-CA	6.70	129.26	120.28
1	jv	37	ILE	CA-C-O	-6.70	114.20	118.69
1	jX	51	ASP	N-CA-C	6.70	118.24	111.07
1	k0	27	VAL	CA-C-O	6.70	127.92	120.95
1	k2	111	LEU	O-C-N	-6.70	115.16	122.07
1	k5	62	HIS	CA-C-O	6.70	129.26	121.28
1	kj	208	ALA	N-CA-CB	-6.70	100.32	110.91
1	ky	220	GLY	O-C-N	-6.70	114.67	122.31
1	kY	153	ILE	CA-C-O	-6.70	112.57	120.75
1	l2	156	GLY	O-C-N	-6.70	115.07	121.77
1	lk	191	VAL	CB-CA-C	-6.70	102.46	110.84
1	lC	102	SER	CA-C-O	6.70	127.66	120.55
1	lM	229	ARG	NH1-CZ-NH2	-6.70	110.59	119.30
1	2e	203	LYS	N-CA-C	6.70	119.44	111.33
1	2h	171	THR	N-CA-CB	6.70	120.08	110.16
1	2L	54	THR	O-C-N	-6.70	115.01	122.12
1	2R	199	LYS	O-C-N	-6.70	115.12	122.09
1	3e	188	THR	N-CA-C	6.70	118.24	111.07
1	3l	73	ILE	CA-CB-CG1	6.70	121.80	110.40
1	3L	173	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	3V	51	ASP	CB-CA-C	-6.70	100.36	110.88
1	41	230	VAL	N-CA-CB	6.70	122.29	111.23
1	4m	56	LEU	O-C-N	-6.70	114.38	122.22
1	4t	3	VAL	O-C-N	-6.70	115.36	123.00
1	4T	20	LEU	CA-C-N	6.70	129.15	120.44
1	4T	20	LEU	C-N-CA	6.70	129.15	120.44
1	5l	139	ASN	CA-C-N	6.70	129.16	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5l	139	ASN	C-N-CA	6.70	129.16	120.44
1	5t	32	PHE	CA-CB-CG	6.70	120.50	113.80
1	5u	69	LEU	CA-C-O	-6.70	113.78	120.82
1	6c	57	ASN	CB-CG-ND2	-6.70	106.34	116.40
1	6A	97	ARG	NH1-CZ-NH2	-6.70	110.58	119.30
1	6N	146	SER	CB-CA-C	6.70	117.86	110.15
1	6V	177	ALA	CA-C-N	6.70	130.35	120.90
1	6V	177	ALA	C-N-CA	6.70	130.35	120.90
1	6Y	193	ASN	CA-C-O	6.70	127.76	119.78
1	7i	112	GLN	O-C-N	-6.70	115.01	122.12
1	7s	19	THR	N-CA-C	6.70	118.24	111.07
1	7v	18	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	7W	121	ASN	O-C-N	-6.70	113.44	121.02
1	82	126	VAL	N-CA-C	6.70	117.40	110.36
1	8o	152	ASP	CA-CB-CG	-6.70	105.90	112.60
1	8q	48	THR	CA-C-N	6.70	126.21	119.24
1	8q	48	THR	C-N-CA	6.70	126.21	119.24
1	9o	92	GLU	CA-C-O	-6.70	113.01	120.25
1	9w	212	GLU	CA-C-N	6.70	129.16	120.44
1	9w	212	GLU	C-N-CA	6.70	129.16	120.44
1	9I	12	HIS	ND1-CE1-NE2	6.70	115.10	108.40
1	a7	138	LEU	N-CA-CB	6.70	119.93	109.94
1	aB	67	GLN	CA-C-O	-6.70	113.44	120.55
1	aR	20	LEU	N-CA-C	6.70	118.24	111.07
1	b3	215	MET	CG-SD-CE	-6.70	86.15	100.90
1	16	104	ILE	N-CA-C	6.70	117.46	110.62
1	bf	43	LEU	N-CA-CB	-6.70	99.89	110.28
1	bo	58	THR	O-C-N	-6.70	114.38	122.22
1	19	44	SER	N-CA-C	6.70	118.59	111.28
1	bZ	59	VAL	O-C-N	6.70	129.74	122.63
1	cv	71	GLU	CA-C-O	-6.70	113.44	120.55
1	cw	84	HIS	CA-CB-CG	-6.70	107.10	113.80
1	cx	48	THR	CA-CB-OG1	6.70	119.66	109.60
1	d5	140	LYS	N-CA-C	6.70	118.59	111.28
1	do	29	GLU	N-CA-C	6.70	118.67	111.36
1	dw	82	ARG	N-CA-C	6.70	118.24	111.07
1	dK	179	GLN	N-CA-C	6.70	119.42	111.71
1	es	135	ILE	CA-C-N	6.70	129.16	120.44
1	es	135	ILE	C-N-CA	6.70	129.16	120.44
1	ex	196	PRO	N-CA-C	6.70	123.74	113.75
1	fx	139	ASN	CA-CB-CG	-6.70	105.90	112.60
1	fE	116	GLY	N-CA-C	6.70	120.75	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	226	HIS	N-CA-C	-6.70	104.05	111.82
1	g3	73	ILE	O-C-N	-6.70	115.34	121.91
1	m	107	THR	O-C-N	-6.70	113.38	122.36
1	s	173	ARG	NH1-CZ-NH2	-6.70	110.58	119.30
1	t	76	GLU	N-CA-C	6.70	118.67	111.36
1	A	225	GLY	CA-C-O	6.70	128.20	119.69
1	E	149	SER	N-CA-CB	6.70	121.82	110.49
1	Q	62	HIS	CA-CB-CG	6.70	120.50	113.80
1	hx	27	VAL	O-C-N	-6.70	115.37	121.87
1	in	68	MET	CA-C-O	6.70	127.67	120.10
1	ip	129	ILE	CA-C-N	6.70	129.81	120.29
1	ip	129	ILE	C-N-CA	6.70	129.81	120.29
1	iG	97	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	jJ	39	MET	N-CA-C	6.70	118.24	111.07
1	23	143	ARG	O-C-N	-6.70	114.03	122.27
1	kS	229	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	2k	64	ALA	N-CA-C	6.70	118.58	111.28
1	2K	17	PRO	CA-C-N	6.70	129.56	120.38
1	2K	17	PRO	C-N-CA	6.70	129.56	120.38
1	2R	7	GLN	O-C-N	-6.70	113.68	122.59
1	2S	11	VAL	N-CA-CB	6.70	120.58	110.13
1	3g	103	ASP	CA-C-N	6.70	129.00	120.56
1	3g	103	ASP	C-N-CA	6.70	129.00	120.56
1	5f	96	MET	CA-C-N	6.70	132.20	120.87
1	5f	96	MET	C-N-CA	6.70	132.20	120.87
1	5h	223	GLY	O-C-N	6.70	128.47	121.77
1	5v	107	THR	N-CA-C	-6.70	105.11	113.55
1	60	29	GLU	CB-CA-C	-6.70	97.51	109.24
1	6L	205	LEU	O-C-N	-6.70	114.08	122.19
1	72	45	GLU	CB-CA-C	6.70	120.35	109.90
1	7N	23	TRP	CB-CG-CD1	-6.70	116.85	126.90
1	7N	26	VAL	CA-C-N	6.70	129.64	120.46
1	7N	26	VAL	C-N-CA	6.70	129.64	120.46
1	8J	190	LEU	O-C-N	-6.70	115.02	122.12
1	9S	57	ASN	CB-CG-ND2	-6.70	106.35	116.40
1	am	144	MET	CA-C-O	6.70	127.62	119.31
1	au	18	ARG	N-CA-CB	6.70	119.70	109.91
1	az	84	HIS	CA-C-N	6.70	128.22	119.84
1	az	84	HIS	C-N-CA	6.70	128.22	119.84
1	dg	178	SER	CA-C-O	6.70	128.56	121.19
1	f0	50	GLN	N-CA-C	6.70	119.44	111.33
1	g4	41	SER	N-CA-C	6.70	119.15	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	112	GLN	CA-C-O	6.70	127.52	120.42
1	F	132	ARG	CD-NE-CZ	6.70	133.78	124.40
1	gc	154	ARG	N-CA-C	6.70	120.53	110.14
1	gn	114	GLN	N-CA-C	6.70	119.44	111.33
1	go	167	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	hv	31	ALA	N-CA-C	6.70	118.49	108.31
1	hB	125	PRO	N-CA-CB	6.70	107.11	102.35
1	i0	40	PHE	CA-C-O	6.70	127.86	120.82
1	i7	107	THR	CA-C-O	6.70	127.52	120.42
1	id	2	ILE	CA-C-O	6.70	128.36	120.72
1	ih	25	LYS	CA-C-N	6.70	129.00	120.56
1	ih	25	LYS	C-N-CA	6.70	129.00	120.56
1	ii	173	ARG	NE-CZ-NH2	6.70	125.23	119.20
1	it	103	ASP	N-CA-C	-6.70	103.97	111.28
1	iH	9	GLN	N-CA-CB	6.70	121.81	110.49
1	1R	79	GLU	CA-C-N	6.70	129.15	120.44
1	1R	79	GLU	C-N-CA	6.70	129.15	120.44
1	iI	204	ALA	N-CA-C	6.70	118.58	111.28
1	iZ	140	LYS	N-CA-CB	6.70	119.97	110.12
1	j0	58	THR	CB-CA-C	-6.70	97.99	109.65
1	j5	198	CYS	CA-C-O	6.70	127.86	120.82
1	jq	49	PRO	CB-CA-C	6.70	124.52	113.20
1	jr	121	ASN	CA-C-O	-6.70	114.36	119.59
1	jt	82	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	jD	174	ALA	CA-C-N	6.70	130.22	120.71
1	jD	174	ALA	C-N-CA	6.70	130.22	120.71
1	jW	165	VAL	N-CA-C	6.70	117.45	110.62
1	k2	23	TRP	CB-CG-CD1	-6.70	116.85	126.90
1	k6	193	ASN	N-CA-CB	-6.70	100.78	110.56
1	kh	4	GLN	CA-C-O	6.70	128.33	120.69
1	kL	57	ASN	CA-CB-CG	6.70	119.30	112.60
1	l8	163	ASP	CA-C-N	6.70	129.55	120.44
1	l8	163	ASP	C-N-CA	6.70	129.55	120.44
1	lk	154	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	lo	188	THR	CA-C-N	6.70	129.26	120.28
1	lo	188	THR	C-N-CA	6.70	129.26	120.28
1	lx	36	VAL	N-CA-C	6.70	119.42	111.05
1	lH	15	ILE	N-CA-C	6.70	118.42	109.37
1	2g	140	LYS	O-C-N	-6.70	114.38	122.22
1	2g	198	CYS	O-C-N	-6.70	115.02	122.12
1	2o	166	ASP	N-CA-C	6.70	119.15	111.11
1	3f	145	TYR	CB-CG-CD2	-6.70	110.75	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	49	62	HIS	N-CA-C	6.70	120.41	111.30
1	4Q	88	ALA	N-CA-CB	-6.70	100.53	110.24
1	4T	226	HIS	CA-C-N	6.70	130.87	120.75
1	4T	226	HIS	C-N-CA	6.70	130.87	120.75
1	57	89	GLY	CA-C-N	6.70	127.10	119.93
1	57	89	GLY	C-N-CA	6.70	127.10	119.93
1	5l	132	ARG	NE-CZ-NH2	6.70	125.23	119.20
1	5n	173	ARG	NH1-CZ-NH2	-6.70	110.59	119.30
1	5u	198	CYS	CA-C-N	6.70	129.59	120.54
1	5u	198	CYS	C-N-CA	6.70	129.59	120.54
1	5B	162	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	5F	219	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	5I	79	GLU	CA-C-N	6.70	129.15	120.44
1	5I	79	GLU	C-N-CA	6.70	129.15	120.44
1	5J	67	GLN	N-CA-CB	6.70	119.73	110.01
1	66	5	ASN	N-CA-CB	6.70	119.94	110.36
1	6d	48	THR	CA-C-N	6.70	128.22	119.84
1	6d	48	THR	C-N-CA	6.70	128.22	119.84
1	6n	27	VAL	N-CA-CB	6.70	117.95	110.51
1	6o	112	GLN	O-C-N	-6.70	115.17	122.07
1	6I	167	ARG	O-C-N	-6.70	115.17	122.07
1	70	182	LYS	CA-C-O	6.70	127.68	119.97
1	75	136	LEU	CA-C-N	6.70	127.42	119.98
1	75	136	LEU	C-N-CA	6.70	127.42	119.98
1	7d	154	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	7K	128	GLU	O-C-N	6.70	128.97	122.07
1	85	112	GLN	O-C-N	-6.70	115.17	122.07
1	8h	149	SER	CA-C-N	6.70	131.06	120.47
1	8h	149	SER	C-N-CA	6.70	131.06	120.47
1	8s	40	PHE	CA-CB-CG	-6.70	107.10	113.80
1	8t	50	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	8D	39	MET	CA-C-N	6.70	129.15	120.44
1	8D	39	MET	C-N-CA	6.70	129.15	120.44
1	8N	178	SER	CA-C-O	-6.70	114.20	121.44
1	90	81	ASP	CA-C-N	6.70	129.55	120.44
1	90	81	ASP	C-N-CA	6.70	129.55	120.44
1	9n	119	THR	CA-CB-OG1	6.70	119.65	109.60
1	9t	22	ALA	CA-C-O	6.70	128.07	120.90
1	9G	11	VAL	N-CA-C	6.70	118.22	109.58
1	11	82	ARG	CA-C-O	-6.70	113.45	120.55
1	aq	26	VAL	CA-C-N	6.70	131.20	120.82
1	aq	26	VAL	C-N-CA	6.70	131.20	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ay	120	HIS	CA-CB-CG	6.70	120.50	113.80
1	aX	62	HIS	ND1-CE1-NE2	6.70	115.10	108.40
1	19	48	THR	O-C-N	-6.70	115.65	121.35
1	bH	200	THR	CA-C-N	6.70	129.00	120.56
1	bH	200	THR	C-N-CA	6.70	129.00	120.56
1	bT	120	HIS	CG-CD2-NE2	6.70	113.90	107.20
1	cl	165	VAL	CA-C-N	6.70	129.59	120.54
1	cl	165	VAL	C-N-CA	6.70	129.59	120.54
1	cr	58	THR	N-CA-C	6.70	118.38	111.14
1	cB	132	ARG	NE-CZ-NH2	6.70	125.23	119.20
1	d0	193	ASN	N-CA-C	6.70	118.58	111.28
1	dx	131	LYS	CA-C-O	6.70	128.42	120.92
1	dH	156	GLY	CA-C-N	6.70	126.49	119.05
1	dH	156	GLY	C-N-CA	6.70	126.49	119.05
1	eQ	39	MET	O-C-N	6.70	128.97	122.07
1	eV	160	PRO	N-CA-CB	-6.70	96.22	103.25
1	fp	203	LYS	N-CA-C	6.70	118.58	111.28
1	fz	43	LEU	CA-C-O	6.70	127.67	119.97
1	e	122	PRO	CA-C-N	6.70	126.73	119.90
1	e	122	PRO	C-N-CA	6.70	126.73	119.90
1	v	193	ASN	N-CA-C	6.70	118.58	111.28
1	K	219	GLN	CB-CA-C	-6.70	99.04	110.16
1	W	3	VAL	O-C-N	-6.70	115.61	123.05
1	g8	95	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	gc	24	VAL	CA-CB-CG1	6.70	121.79	110.40
1	gh	128	GLU	CA-C-N	6.70	129.00	120.56
1	gh	128	GLU	C-N-CA	6.70	129.00	120.56
1	gh	178	SER	O-C-N	-6.70	115.39	122.96
1	gl	168	PHE	N-CA-C	6.70	118.24	111.07
1	1E	70	LYS	CA-C-O	6.70	127.65	120.55
1	h9	8	GLY	CA-C-N	6.70	132.86	121.14
1	h9	8	GLY	C-N-CA	6.70	132.86	121.14
1	hn	32	PHE	N-CA-CB	6.70	121.10	110.65
1	hA	155	GLN	N-CA-C	6.70	119.94	110.23
1	hC	81	ASP	O-C-N	-6.70	114.51	122.15
1	hF	25	LYS	N-CA-C	6.70	118.58	111.28
1	id	169	TYR	N-CA-CB	6.70	120.07	110.16
1	iQ	82	ARG	N-CA-C	6.70	119.15	111.11
1	j0	90	PRO	N-CA-CB	6.70	109.56	103.33
1	jh	13	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	jF	98	GLU	CA-C-O	-6.70	114.90	120.26
1	jG	48	THR	CA-C-O	-6.70	113.94	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	12	HIS	CB-CG-CD2	-6.70	122.49	131.20
1	l2	65	ALA	N-CA-CB	-6.70	100.27	110.12
1	29	67	GLN	O-C-N	-6.70	114.86	122.09
1	lD	197	ASP	CA-C-N	6.70	129.26	120.28
1	lD	197	ASP	C-N-CA	6.70	129.26	120.28
1	lK	114	GLN	O-C-N	6.70	129.25	122.08
1	2m	167	ARG	CB-CG-CD	6.70	126.71	111.30
1	2L	162	ARG	N-CA-CB	6.70	120.07	110.16
1	2S	140	LYS	N-CA-C	6.70	118.37	111.14
1	2W	79	GLU	N-CA-C	6.70	118.58	111.28
1	3l	79	GLU	CA-C-O	6.70	127.67	120.10
1	3U	91	ILE	O-C-N	-6.70	116.15	123.18
1	46	150	ILE	N-CA-C	6.70	119.46	111.09
1	5a	185	MET	N-CA-C	6.70	118.24	111.07
1	5L	171	THR	N-CA-C	6.70	118.58	111.28
1	5V	88	ALA	CB-CA-C	6.70	120.85	109.53
1	6i	167	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	6A	76	GLU	CA-C-N	6.70	129.15	120.44
1	6A	76	GLU	C-N-CA	6.70	129.15	120.44
1	6B	149	SER	O-C-N	-6.70	114.71	123.28
1	6M	226	HIS	ND1-CE1-NE2	6.70	115.10	108.40
1	6O	130	TYR	N-CA-C	6.70	118.58	111.28
1	6V	156	GLY	CA-C-N	6.70	126.33	119.56
1	6V	156	GLY	C-N-CA	6.70	126.33	119.56
1	73	83	LEU	N-CA-C	-6.70	104.15	112.72
1	74	66	MET	CA-C-O	6.70	127.65	120.55
1	7t	73	ILE	CA-C-N	6.70	129.25	120.28
1	7t	73	ILE	C-N-CA	6.70	129.25	120.28
1	7w	132	ARG	CG-CD-NE	-6.70	97.26	112.00
1	7U	210	THR	CA-CB-OG1	6.70	119.65	109.60
1	8i	65	ALA	CA-C-O	6.70	127.85	120.82
1	8r	75	GLU	N-CA-C	6.70	118.58	111.28
1	8M	36	VAL	CA-CB-CG1	6.70	121.79	110.40
1	8Q	210	THR	N-CA-CB	6.70	120.47	110.29
1	95	173	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	9K	120	HIS	ND1-CE1-NE2	6.70	115.10	108.40
1	9M	65	ALA	CA-C-N	6.70	129.25	120.28
1	9M	65	ALA	C-N-CA	6.70	129.25	120.28
1	9V	61	GLY	O-C-N	-6.70	115.69	122.59
1	9X	80	TRP	CA-C-N	6.70	129.15	120.44
1	9X	80	TRP	C-N-CA	6.70	129.15	120.44
1	13	63	GLN	CG-CD-NE2	6.70	126.45	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	226	HIS	CA-C-O	6.70	130.09	120.51
1	bD	215	MET	CG-SD-CE	-6.70	86.17	100.90
1	cm	39	MET	CA-C-N	6.70	129.58	120.54
1	cm	39	MET	C-N-CA	6.70	129.58	120.54
1	cJ	24	VAL	CA-C-N	6.70	129.80	120.29
1	cJ	24	VAL	C-N-CA	6.70	129.80	120.29
1	dQ	136	LEU	CA-C-N	6.70	127.38	119.94
1	dQ	136	LEU	C-N-CA	6.70	127.38	119.94
1	dS	132	ARG	CA-C-N	6.70	129.15	120.44
1	dS	132	ARG	C-N-CA	6.70	129.15	120.44
1	e0	119	THR	CA-C-N	6.70	132.87	120.95
1	e0	119	THR	C-N-CA	6.70	132.87	120.95
1	e7	132	ARG	NH1-CZ-NH2	-6.70	110.59	119.30
1	e7	143	ARG	N-CA-C	6.70	119.41	111.71
1	e8	31	ALA	N-CA-C	6.70	125.07	110.80
1	ei	98	GLU	CA-C-N	6.70	127.06	119.83
1	ei	98	GLU	C-N-CA	6.70	127.06	119.83
1	ep	107	THR	N-CA-C	6.70	118.58	111.28
1	ex	5	ASN	CA-CB-CG	6.70	119.30	112.60
1	fi	84	HIS	CA-C-O	-6.70	113.73	120.63
1	1w	16	SER	N-CA-C	6.70	118.15	109.64
1	fo	124	ILE	O-C-N	-6.70	113.46	121.10
1	fs	171	THR	CA-C-N	6.70	129.15	120.44
1	fs	171	THR	C-N-CA	6.70	129.15	120.44
1	fz	152	ASP	O-C-N	-6.70	112.85	122.36
1	fJ	12	HIS	CA-CB-CG	6.70	120.50	113.80
1	1B	129	ILE	N-CA-C	6.70	116.85	110.42
1	q	12	HIS	CE1-NE2-CD2	-6.70	102.30	109.00
1	s	40	PHE	CA-C-O	-6.70	113.79	120.82
1	u	167	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	L	97	ARG	NE-CZ-NH1	6.70	128.20	121.50
1	ga	92	GLU	N-CA-C	6.70	118.14	109.64
1	gJ	224	PRO	N-CA-CB	-6.70	97.36	103.25
1	hm	172	LEU	O-C-N	-6.70	113.46	122.43
1	hZ	137	GLY	CA-C-O	-6.70	114.15	121.05
1	i5	143	ARG	N-CA-C	6.70	118.66	111.36
1	iI	199	LYS	CA-C-N	6.70	129.80	120.29
1	iI	199	LYS	C-N-CA	6.70	129.80	120.29
1	iO	127	GLY	N-CA-C	6.70	120.77	112.73
1	jd	42	ALA	O-C-N	-6.70	115.02	122.12
1	1X	22	ALA	CA-C-N	6.70	129.15	120.44
1	1X	22	ALA	C-N-CA	6.70	129.15	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k0	97	ARG	NE-CZ-NH2	-6.70	113.17	119.20
1	k1	185	MET	N-CA-C	6.70	118.58	111.28
1	kf	33	SER	CA-C-O	-6.70	114.47	120.56
1	3U	82	ARG	NE-CZ-NH1	-6.70	114.80	121.50
1	3W	33	SER	CA-C-N	6.70	128.21	119.84
1	3W	33	SER	C-N-CA	6.70	128.21	119.84
1	4r	67	GLN	OE1-CD-NE2	-6.70	115.90	122.60
1	5b	24	VAL	CA-C-N	6.70	129.15	120.44
1	5b	24	VAL	C-N-CA	6.70	129.15	120.44
1	60	215	MET	CA-C-N	6.70	129.80	120.29
1	60	215	MET	C-N-CA	6.70	129.80	120.29
1	6t	164	TYR	CB-CA-C	6.70	121.39	110.88
1	6B	82	ARG	NH1-CZ-NH2	-6.70	110.59	119.30
1	7f	129	ILE	N-CA-C	6.70	117.39	110.36
1	7D	179	GLN	CA-C-N	6.70	129.80	120.29
1	7D	179	GLN	C-N-CA	6.70	129.80	120.29
1	7J	188	THR	CA-CB-CG2	6.70	121.88	110.50
1	8p	168	PHE	O-C-N	-6.70	115.17	122.07
1	8Y	61	GLY	O-C-N	-6.70	116.55	122.91
1	9g	143	ARG	N-CA-C	6.70	118.58	111.28
1	a7	167	ARG	CA-C-N	6.70	129.15	120.44
1	a7	167	ARG	C-N-CA	6.70	129.15	120.44
1	bk	206	GLY	CA-C-N	6.70	126.83	119.87
1	bk	206	GLY	C-N-CA	6.70	126.83	119.87
1	bP	110	THR	CA-C-N	6.70	129.25	120.28
1	bP	110	THR	C-N-CA	6.70	129.25	120.28
1	1c	170	LYS	CA-C-N	6.70	129.58	120.54
1	1c	170	LYS	C-N-CA	6.70	129.58	120.54
1	cg	140	LYS	CA-C-O	-6.70	113.45	120.55
1	cj	169	TYR	CB-CG-CD1	-6.70	110.75	120.80
1	co	27	VAL	O-C-N	-6.70	115.35	121.91
1	cw	22	ALA	CA-C-N	6.70	129.25	120.28
1	cw	22	ALA	C-N-CA	6.70	129.25	120.28
1	1m	161	PHE	CA-C-N	6.70	129.25	120.28
1	1m	161	PHE	C-N-CA	6.70	129.25	120.28
1	dT	217	ALA	N-CA-C	6.70	118.49	110.19
1	eD	10	MET	CG-SD-CE	-6.70	86.17	100.90
1	g5	5	ASN	CA-C-N	6.70	134.33	121.54
1	g5	5	ASN	C-N-CA	6.70	134.33	121.54
1	t	39	MET	N-CA-CB	6.70	119.72	110.01
1	V	34	PRO	CA-C-N	6.70	129.92	120.28
1	V	34	PRO	C-N-CA	6.70	129.92	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	185	MET	N-CA-C	6.70	118.58	111.28
1	8	75	GLU	O-C-N	6.70	129.22	122.12
1	gY	7	GLN	CA-C-N	6.70	131.80	122.29
1	gY	7	GLN	C-N-CA	6.70	131.80	122.29
1	h3	58	THR	N-CA-C	-6.70	105.10	113.20
1	hv	177	ALA	CA-C-N	6.70	130.66	120.82
1	hv	177	ALA	C-N-CA	6.70	130.66	120.82
1	hI	188	THR	N-CA-C	6.70	121.30	112.13
1	hQ	80	TRP	O-C-N	-6.70	115.02	122.12
1	i1	100	ARG	CA-C-N	6.70	127.53	120.03
1	i1	100	ARG	C-N-CA	6.70	127.53	120.03
1	iq	132	ARG	N-CA-C	6.70	118.66	111.36
1	iO	30	LYS	CA-C-N	6.70	129.55	120.38
1	iO	30	LYS	C-N-CA	6.70	129.55	120.38
1	iQ	210	THR	N-CA-CB	6.70	119.94	110.36
1	jv	76	GLU	N-CA-C	6.70	118.58	111.28
1	jL	48	THR	CA-C-N	6.70	126.20	119.24
1	jL	48	THR	C-N-CA	6.70	126.20	119.24
1	k0	213	GLU	CA-C-O	-6.70	113.79	120.82
1	k6	34	PRO	O-C-N	6.70	131.41	122.30
1	kP	80	TRP	CA-C-N	6.70	131.90	120.72
1	kP	80	TRP	C-N-CA	6.70	131.90	120.72
1	ll	201	ILE	O-C-N	-6.70	115.35	121.91
1	2m	182	LYS	N-CA-C	6.70	118.58	111.28
1	35	173	ARG	N-CA-C	6.70	118.58	111.28
1	3h	62	HIS	N-CA-C	6.70	120.48	111.24
1	3y	78	ALA	CA-C-N	6.70	129.58	120.54
1	3y	78	ALA	C-N-CA	6.70	129.58	120.54
1	3O	48	THR	N-CA-CB	6.70	119.02	109.78
1	3Z	146	SER	CA-C-O	-6.70	113.77	119.59
1	4E	51	ASP	CA-C-N	6.70	129.15	120.44
1	4E	51	ASP	C-N-CA	6.70	129.15	120.44
1	4S	9	GLN	CA-C-N	6.70	130.66	120.82
1	4S	9	GLN	C-N-CA	6.70	130.66	120.82
1	5k	42	ALA	N-CA-C	6.70	118.27	110.97
1	5B	132	ARG	N-CA-C	6.70	118.58	111.28
1	5P	42	ALA	N-CA-C	6.70	118.23	111.07
1	5W	130	TYR	CA-C-N	6.70	129.25	120.28
1	5W	130	TYR	C-N-CA	6.70	129.25	120.28
1	65	62	HIS	CA-C-N	6.70	130.49	120.31
1	65	62	HIS	C-N-CA	6.70	130.49	120.31
1	6K	165	VAL	CA-C-N	6.70	129.15	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6K	165	VAL	C-N-CA	6.70	129.15	120.44
1	7h	115	ILE	N-CA-C	6.70	118.25	110.62
1	7h	222	GLY	N-CA-C	6.70	119.63	111.93
1	7i	103	ASP	CA-C-N	6.70	129.63	120.46
1	7i	103	ASP	C-N-CA	6.70	129.63	120.46
1	80	92	GLU	CA-C-O	-6.70	113.12	120.69
1	8k	79	GLU	N-CA-C	6.70	119.41	111.71
1	8B	84	HIS	CB-CG-ND1	-6.70	112.66	122.70
1	94	62	HIS	CA-CB-CG	-6.70	107.11	113.80
1	9n	1	PRO	N-CA-CB	6.70	110.36	103.00
1	9s	78	ALA	N-CA-C	6.70	118.23	111.07
1	9s	188	THR	N-CA-C	6.70	121.58	112.68
1	a0	122	PRO	N-CA-CB	6.70	109.96	102.60
1	a1	221	VAL	O-C-N	-6.70	115.50	122.20
1	a8	109	SER	O-C-N	-6.70	114.71	123.28
1	ad	124	ILE	CA-C-O	-6.70	114.22	119.98
1	bY	163	ASP	CA-C-N	6.70	129.58	120.54
1	bY	163	ASP	C-N-CA	6.70	129.58	120.54
1	c3	129	ILE	CA-C-O	-6.70	114.07	121.17
1	c5	12	HIS	CE1-NE2-CD2	-6.70	102.31	109.00
1	c6	35	GLU	N-CA-C	6.70	120.32	111.75
1	cg	124	ILE	CA-C-O	-6.70	112.59	119.89
1	cy	19	THR	N-CA-C	6.70	118.58	111.28
1	cz	149	SER	CA-C-N	6.70	131.20	120.82
1	cz	149	SER	C-N-CA	6.70	131.20	120.82
1	cS	112	GLN	O-C-N	-6.70	115.02	122.12
1	dj	5	ASN	CA-CB-CG	6.70	119.30	112.60
1	1q	63	GLN	N-CA-C	6.70	118.66	111.36
1	eG	129	ILE	O-C-N	-6.70	115.35	121.91
1	eH	83	LEU	N-CA-C	6.70	118.58	111.28
1	f1	51	ASP	CA-C-N	6.70	129.54	120.44
1	f1	51	ASP	C-N-CA	6.70	129.54	120.44
1	1x	47	ALA	N-CA-C	6.70	120.20	110.42
1	fA	49	PRO	CA-C-N	6.70	129.58	120.54
1	fA	49	PRO	C-N-CA	6.70	129.58	120.54
1	C	223	GLY	O-C-N	-6.70	115.08	121.77
1	O	230	VAL	CA-C-O	-6.70	113.56	119.38
1	S	89	GLY	O-C-N	-6.70	115.08	121.77
1	gC	18	ARG	NE-CZ-NH1	-6.69	114.81	121.50
1	hq	195	ASN	CA-CB-CG	-6.69	105.91	112.60
1	hy	24	VAL	CA-C-N	6.69	129.25	120.28
1	hy	24	VAL	C-N-CA	6.69	129.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hA	18	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	hG	62	HIS	CB-CA-C	-6.69	101.78	112.09
1	iv	211	LEU	CA-C-N	6.69	129.25	120.28
1	iv	211	LEU	C-N-CA	6.69	129.25	120.28
1	iP	82	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	lq	229	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	lz	129	ILE	N-CA-CB	6.69	118.38	110.55
1	lF	145	TYR	CB-CG-CD1	6.69	130.84	120.80
1	lO	166	ASP	CB-CA-C	-6.69	100.37	110.88
1	lQ	82	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	2S	33	SER	CA-C-O	-6.69	113.27	119.76
1	3r	62	HIS	N-CA-C	6.69	120.63	111.39
1	3u	25	LYS	N-CA-C	6.69	118.58	111.28
1	3A	192	GLN	N-CA-C	6.69	119.58	111.82
1	3L	80	TRP	CB-CA-C	-6.69	99.30	110.68
1	4g	179	GLN	CB-CG-CD	6.69	123.98	112.60
1	4h	117	TRP	CD2-CE2-CZ2	-6.69	115.71	122.40
1	5I	166	ASP	CB-CA-C	-6.69	100.37	110.88
1	6E	189	LEU	N-CA-C	6.69	118.58	111.28
1	8S	7	GLN	OE1-CD-NE2	6.69	129.29	122.60
1	9j	51	ASP	N-CA-C	-6.69	103.91	111.14
1	aE	200	THR	O-C-N	-6.69	115.03	122.12
1	bq	59	VAL	O-C-N	6.69	128.63	121.94
1	cC	52	LEU	O-C-N	-6.69	115.03	122.12
1	cN	93	PRO	CB-CA-C	6.69	122.61	111.56
1	cR	229	ARG	CA-C-O	6.69	126.50	119.14
1	1j	110	THR	O-C-N	-6.69	115.40	122.96
1	dK	163	ASP	CA-CB-CG	6.69	119.29	112.60
1	dK	226	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	dP	125	PRO	N-CA-CB	-6.69	97.56	102.25
1	el	57	ASN	OD1-CG-ND2	6.69	129.29	122.60
1	eo	168	PHE	CA-C-O	6.69	127.85	120.82
1	fU	91	ILE	CA-C-N	6.69	129.69	120.39
1	fU	91	ILE	C-N-CA	6.69	129.69	120.39
1	fX	134	ILE	CA-C-N	6.69	128.99	120.56
1	fX	134	ILE	C-N-CA	6.69	128.99	120.56
1	g0	154	ARG	NE-CZ-NH2	-6.69	113.18	119.20
1	g6	21	ASN	CA-CB-CG	-6.69	105.91	112.60
1	h5	90	PRO	N-CA-CB	-6.69	96.22	103.25
1	h6	7	GLN	OE1-CD-NE2	6.69	129.29	122.60
1	hj	68	MET	CA-C-N	6.69	129.57	120.54
1	hj	68	MET	C-N-CA	6.69	129.57	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ht	9	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	hG	211	LEU	O-C-N	-6.69	115.03	122.12
1	hN	53	ASN	CA-CB-CG	-6.69	105.91	112.60
1	hX	53	ASN	CA-CB-CG	-6.69	105.91	112.60
1	ib	155	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	ig	52	LEU	CA-C-N	6.69	129.25	120.28
1	ig	52	LEU	C-N-CA	6.69	129.25	120.28
1	iq	13	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	is	194	ALA	CA-C-O	6.69	128.51	121.15
1	iu	198	CYS	CA-C-N	6.69	129.25	120.28
1	iu	198	CYS	C-N-CA	6.69	129.25	120.28
1	ix	133	TRP	O-C-N	-6.69	114.52	122.15
1	iN	80	TRP	CB-CG-CD2	6.69	136.17	126.80
1	iU	105	ALA	CA-C-O	6.69	127.68	119.11
1	1U	41	SER	N-CA-C	6.69	119.14	111.11
1	jY	81	ASP	CA-C-O	6.69	127.64	120.55
1	k5	224	PRO	N-CA-CB	6.69	108.94	103.32
1	kn	84	HIS	CA-C-N	6.69	128.21	119.84
1	kn	84	HIS	C-N-CA	6.69	128.21	119.84
1	kw	139	ASN	CA-CB-CG	-6.69	105.91	112.60
1	kF	167	ARG	CA-C-N	6.69	129.58	120.54
1	kF	167	ARG	C-N-CA	6.69	129.58	120.54
1	lc	100	ARG	NH1-CZ-NH2	-6.69	110.60	119.30
1	ll	10	MET	O-C-N	-6.69	113.69	122.59
1	ls	73	ILE	CA-C-N	6.69	129.79	120.29
1	ls	73	ILE	C-N-CA	6.69	129.79	120.29
1	lI	143	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	2k	98	GLU	O-C-N	-6.69	113.94	121.43
1	2K	19	THR	CA-C-O	6.69	127.52	120.42
1	2N	74	ASN	CA-C-O	-6.69	113.46	120.55
1	32	50	GLN	CA-C-N	6.69	129.25	120.28
1	32	50	GLN	C-N-CA	6.69	129.25	120.28
1	3b	173	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	3h	14	ALA	N-CA-C	6.69	118.94	110.24
1	3q	197	ASP	N-CA-C	6.69	118.66	111.36
1	3r	71	GLU	CA-C-N	6.69	129.14	120.44
1	3r	71	GLU	C-N-CA	6.69	129.14	120.44
1	54	229	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	56	47	ALA	CA-C-O	6.69	128.51	120.81
1	5F	166	ASP	CA-C-N	6.69	129.25	120.28
1	5F	166	ASP	C-N-CA	6.69	129.25	120.28
1	64	195	ASN	O-C-N	-6.69	113.94	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6d	62	HIS	ND1-CG-CD2	6.69	112.79	106.10
1	6f	222	GLY	O-C-N	-6.69	115.52	122.68
1	6t	159	GLU	CA-C-O	-6.69	113.41	120.70
1	6R	98	GLU	CA-C-N	6.69	128.21	119.84
1	6R	98	GLU	C-N-CA	6.69	128.21	119.84
1	7y	184	TRP	N-CA-C	6.69	118.65	111.36
1	7L	70	LYS	CA-C-O	-6.69	113.46	120.55
1	7V	132	ARG	CA-C-N	6.69	129.14	120.44
1	7V	132	ARG	C-N-CA	6.69	129.14	120.44
1	83	13	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	89	189	LEU	CA-C-N	6.69	129.25	120.28
1	89	189	LEU	C-N-CA	6.69	129.25	120.28
1	8p	144	MET	N-CA-C	6.69	118.57	111.28
1	8q	54	THR	CA-C-N	6.69	129.54	120.44
1	8q	54	THR	C-N-CA	6.69	129.54	120.44
1	8E	89	GLY	CA-C-N	6.69	126.73	119.90
1	8E	89	GLY	C-N-CA	6.69	126.73	119.90
1	8G	220	GLY	CA-C-N	6.69	129.47	120.50
1	8G	220	GLY	C-N-CA	6.69	129.47	120.50
1	8O	51	ASP	CA-C-N	6.69	129.14	120.44
1	8O	51	ASP	C-N-CA	6.69	129.14	120.44
1	8P	175	GLU	N-CA-C	6.69	118.58	111.28
1	9r	168	PHE	CA-CB-CG	6.69	120.49	113.80
1	9B	148	THR	N-CA-C	6.69	119.19	108.41
1	9W	229	ARG	NE-CZ-NH2	-6.69	113.18	119.20
1	9X	92	GLU	N-CA-C	6.69	117.80	109.57
1	a0	164	TYR	O-C-N	-6.69	115.18	122.07
1	a2	106	GLY	O-C-N	-6.69	116.48	122.57
1	a7	72	THR	N-CA-CB	6.69	119.72	110.01
1	aG	79	GLU	N-CA-C	6.69	118.23	111.07
1	aX	167	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	b7	62	HIS	ND1-CE1-NE2	6.69	115.09	108.40
1	bu	109	SER	N-CA-CB	6.69	120.83	110.46
1	bC	29	GLU	N-CA-C	6.69	118.23	111.07
1	ca	103	ASP	N-CA-CB	-6.69	100.23	110.20
1	1e	152	ASP	CA-CB-CG	6.69	119.29	112.60
1	cM	127	GLY	CA-C-N	6.69	129.79	120.29
1	cM	127	GLY	C-N-CA	6.69	129.79	120.29
1	1i	74	ASN	CA-CB-CG	6.69	119.29	112.60
1	d7	87	HIS	ND1-CE1-NE2	6.69	115.09	108.40
1	dO	156	GLY	O-C-N	-6.69	115.08	121.77
1	e5	80	TRP	O-C-N	-6.69	115.03	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eu	145	TYR	N-CA-C	6.69	118.37	111.14
1	ev	159	GLU	CA-C-N	6.69	127.88	120.45
1	ev	159	GLU	C-N-CA	6.69	127.88	120.45
1	ev	226	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	eJ	173	ARG	N-CA-C	6.69	118.58	111.28
1	eZ	167	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	fm	156	GLY	CA-C-N	6.69	126.48	119.05
1	fm	156	GLY	C-N-CA	6.69	126.48	119.05
1	fu	89	GLY	O-C-N	6.69	128.46	121.77
1	fz	103	ASP	CA-C-N	6.69	129.97	120.53
1	fz	103	ASP	C-N-CA	6.69	129.97	120.53
1	j	196	PRO	N-CA-CB	-6.69	96.22	103.25
1	w	11	VAL	CB-CA-C	6.69	120.73	110.96
1	4	215	MET	O-C-N	-6.69	115.13	122.09
1	U	132	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	gd	219	GLN	OE1-CD-NE2	6.69	129.29	122.60
1	gp	114	GLN	CB-CG-CD	-6.69	101.23	112.60
1	gs	84	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	1J	214	MET	N-CA-CB	6.69	120.06	110.16
1	hq	129	ILE	N-CA-C	6.69	116.84	110.42
1	hx	117	TRP	N-CA-C	6.69	118.65	111.36
1	iI	184	TRP	CZ3-CH2-CZ2	-6.69	112.80	121.50
1	iL	120	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	iN	139	ASN	OD1-CG-ND2	6.69	129.29	122.60
1	1W	46	GLY	CA-C-N	6.69	130.25	120.82
1	1W	46	GLY	C-N-CA	6.69	130.25	120.82
1	k9	136	LEU	CA-C-N	6.69	127.36	120.00
1	k9	136	LEU	C-N-CA	6.69	127.36	120.00
1	k9	203	LYS	O-C-N	6.69	128.96	122.07
1	kD	213	GLU	N-CA-C	6.69	118.23	111.07
1	kO	40	PHE	CA-CB-CG	-6.69	107.11	113.80
1	l9	48	THR	CB-CA-C	-6.69	98.63	110.47
1	lv	196	PRO	CA-C-N	6.69	129.54	120.44
1	lv	196	PRO	C-N-CA	6.69	129.54	120.44
1	35	135	ILE	CA-C-N	6.69	129.57	120.54
1	35	135	ILE	C-N-CA	6.69	129.57	120.54
1	3A	68	MET	N-CA-C	6.69	118.57	111.28
1	3G	202	LEU	CA-C-O	6.69	127.66	120.10
1	4e	167	ARG	CA-C-N	6.69	129.24	120.28
1	4e	167	ARG	C-N-CA	6.69	129.24	120.28
1	4I	186	THR	CA-C-O	6.69	128.16	120.00
1	5b	57	ASN	CA-CB-CG	-6.69	105.91	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	87	HIS	CG-CD2-NE2	6.69	113.89	107.20
1	5r	123	PRO	CA-C-O	-6.69	113.51	121.67
1	5O	200	THR	CA-C-N	6.69	129.62	120.46
1	5O	200	THR	C-N-CA	6.69	129.62	120.46
1	5U	201	ILE	CA-C-N	6.69	129.14	120.44
1	5U	201	ILE	C-N-CA	6.69	129.14	120.44
1	65	97	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	6D	117	TRP	N-CA-C	6.69	119.42	111.33
1	6E	139	ASN	N-CA-C	-6.69	103.99	111.28
1	6M	82	ARG	N-CA-C	6.69	118.57	111.28
1	6N	98	GLU	CA-C-O	-6.69	113.81	119.76
1	7n	67	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	7A	179	GLN	N-CA-C	6.69	118.57	111.28
1	82	206	GLY	CA-C-N	6.69	127.88	120.45
1	82	206	GLY	C-N-CA	6.69	127.88	120.45
1	8j	155	GLN	N-CA-C	6.69	119.93	109.96
1	8C	189	LEU	CA-C-N	6.69	129.14	120.44
1	8C	189	LEU	C-N-CA	6.69	129.14	120.44
1	8O	204	ALA	CA-C-N	6.69	129.79	120.29
1	8O	204	ALA	C-N-CA	6.69	129.79	120.29
1	8P	64	ALA	O-C-N	-6.69	114.52	122.15
1	8S	184	TRP	CA-C-N	6.69	129.79	120.29
1	8S	184	TRP	C-N-CA	6.69	129.79	120.29
1	9d	84	HIS	CG-CD2-NE2	6.69	113.89	107.20
1	9n	79	GLU	N-CA-C	6.69	119.41	111.71
1	9p	85	PRO	CA-C-N	6.69	129.47	120.50
1	9p	85	PRO	C-N-CA	6.69	129.47	120.50
1	9Q	197	ASP	CA-CB-CG	-6.69	105.91	112.60
1	a7	190	LEU	O-C-N	-6.69	115.03	122.12
1	ax	131	LYS	CA-C-N	6.69	129.14	120.44
1	ax	131	LYS	C-N-CA	6.69	129.14	120.44
1	az	18	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	b2	100	ARG	O-C-N	-6.69	114.85	122.68
1	bO	23	TRP	CD2-CE2-CZ2	-6.69	115.71	122.40
1	bO	28	GLU	CA-C-N	6.69	129.79	120.29
1	bO	28	GLU	C-N-CA	6.69	129.79	120.29
1	bZ	54	THR	O-C-N	-6.69	115.03	122.12
1	cn	170	LYS	CA-C-O	6.69	127.68	119.79
1	ct	143	ARG	CA-C-O	-6.69	113.33	120.42
1	de	198	CYS	CA-C-N	6.69	129.25	120.28
1	de	198	CYS	C-N-CA	6.69	129.25	120.28
1	dJ	141	ILE	O-C-N	-6.69	114.94	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e0	52	LEU	CA-C-N	6.69	129.57	120.54
1	e0	52	LEU	C-N-CA	6.69	129.57	120.54
1	e5	122	PRO	CA-C-N	6.69	126.65	119.76
1	e5	122	PRO	C-N-CA	6.69	126.65	119.76
1	1p	122	PRO	CA-C-N	6.69	128.20	119.84
1	1p	122	PRO	C-N-CA	6.69	128.20	119.84
1	ed	221	VAL	CA-C-O	6.69	124.79	118.90
1	eB	140	LYS	N-CA-C	6.69	119.41	111.71
1	eT	225	GLY	O-C-N	-6.69	114.00	122.70
1	eW	7	GLN	CA-C-O	-6.69	113.61	121.44
1	fh	193	ASN	CA-C-N	6.69	132.18	120.87
1	fh	193	ASN	C-N-CA	6.69	132.18	120.87
1	1w	37	ILE	CB-CA-C	-6.69	107.26	114.35
1	fl	147	PRO	N-CA-C	-6.69	104.81	113.57
1	fr	80	TRP	CA-C-N	6.69	129.24	120.28
1	fr	80	TRP	C-N-CA	6.69	129.24	120.28
1	fL	163	ASP	CA-C-N	6.69	129.57	120.54
1	fL	163	ASP	C-N-CA	6.69	129.57	120.54
1	g4	190	LEU	N-CA-C	6.69	122.41	111.37
1	s	159	GLU	N-CA-C	6.69	119.11	109.48
1	z	106	GLY	CA-C-N	6.69	129.79	120.29
1	z	106	GLY	C-N-CA	6.69	129.79	120.29
1	I	17	PRO	CA-C-N	6.69	129.14	120.44
1	I	17	PRO	C-N-CA	6.69	129.14	120.44
1	gl	157	PRO	N-CA-CB	6.69	109.68	103.46
1	gx	47	ALA	N-CA-C	6.69	120.18	110.28
1	gF	72	THR	N-CA-C	6.69	118.57	111.28
1	1H	68	MET	CA-C-N	6.69	129.48	120.65
1	1H	68	MET	C-N-CA	6.69	129.48	120.65
1	h7	18	ARG	NE-CZ-NH2	-6.69	113.18	119.20
1	ht	229	ARG	CA-C-N	6.69	129.65	120.35
1	ht	229	ARG	C-N-CA	6.69	129.65	120.35
1	iv	89	GLY	CA-C-N	6.69	128.20	119.84
1	iv	89	GLY	C-N-CA	6.69	128.20	119.84
1	iC	132	ARG	O-C-N	-6.69	115.03	122.12
1	j0	209	ALA	N-CA-CB	6.69	119.87	110.04
1	kQ	170	LYS	N-CA-C	6.69	118.65	111.36
1	2B	186	THR	N-CA-CB	6.69	119.77	110.07
1	2S	192	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	49	48	THR	CA-CB-CG2	6.69	121.87	110.50
1	4B	225	GLY	O-C-N	-6.69	116.53	122.88
1	5E	97	ARG	O-C-N	-6.69	114.64	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6m	67	GLN	N-CA-C	6.69	118.57	111.28
1	7c	10	MET	N-CA-C	6.69	120.62	111.39
1	7q	21	ASN	CA-CB-CG	6.69	119.29	112.60
1	87	97	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	9u	188	THR	CA-C-N	6.69	129.24	120.28
1	9u	188	THR	C-N-CA	6.69	129.24	120.28
1	9w	68	MET	CA-C-N	6.69	129.57	120.54
1	9w	68	MET	C-N-CA	6.69	129.57	120.54
1	ad	187	GLU	O-C-N	-6.69	113.37	122.33
1	aG	99	PRO	CB-CA-C	6.69	117.49	111.40
1	b4	101	GLY	CA-C-N	6.69	130.48	120.31
1	b4	101	GLY	C-N-CA	6.69	130.48	120.31
1	19	168	PHE	N-CA-C	6.69	118.65	111.36
1	bF	82	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	ci	65	ALA	CA-C-N	6.69	129.24	120.28
1	ci	65	ALA	C-N-CA	6.69	129.24	120.28
1	e7	195	ASN	CA-CB-CG	6.69	119.29	112.60
1	ed	71	GLU	N-CA-CB	6.69	119.71	110.01
1	el	82	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	es	42	ALA	CA-C-N	6.69	129.13	120.44
1	es	42	ALA	C-N-CA	6.69	129.13	120.44
1	eD	100	ARG	O-C-N	-6.69	114.42	122.65
1	fC	54	THR	CA-C-N	6.69	129.57	120.54
1	fC	54	THR	C-N-CA	6.69	129.57	120.54
1	fL	173	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	s	131	LYS	CA-C-N	6.69	129.54	120.38
1	s	131	LYS	C-N-CA	6.69	129.54	120.38
1	w	150	ILE	N-CA-C	6.69	120.40	111.17
1	gl	80	TRP	N-CA-C	6.69	118.23	111.07
1	go	198	CYS	CA-C-N	6.69	129.54	120.38
1	go	198	CYS	C-N-CA	6.69	129.54	120.38
1	gH	197	ASP	CA-CB-CG	6.69	119.29	112.60
1	hi	130	TYR	CA-C-N	6.69	129.24	120.28
1	hi	130	TYR	C-N-CA	6.69	129.24	120.28
1	hq	35	GLU	N-CA-C	6.69	120.70	112.54
1	hr	87	HIS	ND1-CE1-NE2	6.69	115.09	108.40
1	hr	214	MET	O-C-N	-6.69	115.18	122.07
1	1M	129	ILE	CA-C-N	6.69	129.79	120.29
1	1M	129	ILE	C-N-CA	6.69	129.79	120.29
1	i6	11	VAL	N-CA-CB	6.69	118.54	110.31
1	iy	23	TRP	CA-CB-CG	6.69	126.31	113.60
1	iA	41	SER	O-C-N	-6.69	115.18	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1R	9	GLN	CB-CG-CD	6.69	123.97	112.60
1	iS	62	HIS	ND1-CG-CD2	6.69	112.79	106.10
1	iV	196	PRO	CA-C-N	6.69	129.13	120.44
1	iV	196	PRO	C-N-CA	6.69	129.13	120.44
1	j1	226	HIS	CB-CA-C	-6.69	99.14	110.64
1	jb	174	ALA	N-CA-C	6.69	120.66	112.23
1	1W	54	THR	CA-C-N	6.69	129.48	120.65
1	1W	54	THR	C-N-CA	6.69	129.48	120.65
1	jw	32	PHE	CA-CB-CG	-6.69	107.11	113.80
1	jP	140	LYS	N-CA-C	6.69	118.57	111.28
1	kk	87	HIS	CE1-NE2-CD2	-6.69	102.31	109.00
1	ku	113	GLU	CA-C-N	6.69	130.09	120.79
1	ku	113	GLU	C-N-CA	6.69	130.09	120.79
1	kN	132	ARG	CA-C-N	6.69	129.24	120.28
1	kN	132	ARG	C-N-CA	6.69	129.24	120.28
1	lk	68	MET	N-CA-C	6.69	118.57	111.28
1	lo	45	GLU	N-CA-C	6.69	120.07	110.10
1	2B	2	ILE	O-C-N	-6.69	115.32	122.61
1	2L	56	LEU	N-CA-C	6.69	118.65	111.36
1	2Z	50	GLN	N-CA-C	6.69	118.23	111.07
1	30	48	THR	O-C-N	-6.69	114.04	121.53
1	30	59	VAL	N-CA-C	6.69	116.84	110.42
1	31	170	LYS	CA-C-N	6.69	129.13	120.44
1	31	170	LYS	C-N-CA	6.69	129.13	120.44
1	3a	199	LYS	CA-C-O	-6.69	113.33	120.42
1	3v	16	SER	CA-C-N	6.69	126.31	119.56
1	3v	16	SER	C-N-CA	6.69	126.31	119.56
1	58	183	ASN	OD1-CG-ND2	6.69	129.29	122.60
1	59	90	PRO	CA-C-N	6.69	129.62	120.46
1	59	90	PRO	C-N-CA	6.69	129.62	120.46
1	5k	139	ASN	CA-C-N	6.69	129.13	120.44
1	5k	139	ASN	C-N-CA	6.69	129.13	120.44
1	5G	208	ALA	CA-C-O	6.69	126.77	119.15
1	5H	48	THR	N-CA-CB	6.69	119.73	110.03
1	5Y	130	TYR	O-C-N	-6.69	114.53	122.15
1	6h	90	PRO	N-CA-C	6.69	121.70	111.34
1	6B	149	SER	N-CA-C	6.69	119.36	108.26
1	6U	13	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	7A	195	ASN	CA-C-N	6.69	128.20	119.84
1	7A	195	ASN	C-N-CA	6.69	128.20	119.84
1	8i	48	THR	CA-CB-OG1	6.69	119.63	109.60
1	8l	120	HIS	N-CA-CB	6.69	120.84	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8p	124	ILE	CB-CA-C	-6.69	103.55	110.71
1	8N	151	LEU	N-CA-C	6.69	121.03	112.34
1	9n	194	ALA	N-CA-C	6.69	118.94	110.24
1	9F	37	ILE	CA-C-N	6.69	126.94	119.32
1	9F	37	ILE	C-N-CA	6.69	126.94	119.32
1	9H	156	GLY	O-C-N	-6.69	115.08	121.77
1	9M	26	VAL	CA-C-N	6.69	129.92	120.42
1	9M	26	VAL	C-N-CA	6.69	129.92	120.42
1	9Q	15	ILE	O-C-N	-6.69	115.54	122.63
1	9Q	143	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	9Q	201	ILE	N-CA-C	6.69	117.47	110.72
1	a1	185	MET	CG-SD-CE	-6.69	86.19	100.90
1	a3	179	GLN	CA-C-O	-6.69	113.41	120.63
1	aY	7	GLN	N-CA-C	-6.69	104.34	113.30
1	b7	230	VAL	N-CA-C	6.69	118.69	109.80
1	bh	132	ARG	NE-CZ-NH2	6.69	125.22	119.20
1	bB	162	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	bH	150	ILE	CA-C-O	-6.69	113.25	120.47
1	bU	230	VAL	N-CA-C	6.69	117.38	110.36
1	1b	152	ASP	CA-CB-CG	-6.69	105.91	112.60
1	cm	127	GLY	O-C-N	-6.69	115.15	122.24
1	cx	167	ARG	O-C-N	-6.69	113.23	122.46
1	1f	87	HIS	CA-CB-CG	6.69	120.49	113.80
1	cB	181	VAL	N-CA-C	6.69	116.84	110.42
1	cF	123	PRO	CA-C-O	-6.69	113.51	121.67
1	1h	28	GLU	CB-CG-CD	6.69	123.97	112.60
1	d6	58	THR	N-CA-C	6.69	119.42	111.33
1	dk	38	PRO	N-CA-C	-6.69	105.50	113.86
1	dK	171	THR	CA-C-N	6.69	129.91	120.28
1	dK	171	THR	C-N-CA	6.69	129.91	120.28
1	dP	4	GLN	O-C-N	-6.69	115.59	123.22
1	dY	45	GLU	N-CA-C	6.69	120.07	110.10
1	e7	221	VAL	N-CA-C	6.69	116.84	110.42
1	ew	10	MET	CG-SD-CE	-6.69	86.19	100.90
1	eW	173	ARG	NH1-CZ-NH2	-6.69	110.61	119.30
1	eX	120	HIS	O-C-N	-6.69	113.70	122.59
1	eZ	14	ALA	N-CA-C	6.69	118.93	110.24
1	fw	209	ALA	N-CA-C	6.69	118.94	110.24
1	fE	193	ASN	N-CA-C	-6.69	104.87	113.16
1	fG	7	GLN	N-CA-C	-6.69	105.15	113.38
1	fU	112	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	g3	12	HIS	CE1-NE2-CD2	-6.69	102.31	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	7	GLN	CB-CG-CD	6.69	123.97	112.60
1	gp	162	ARG	CA-C-N	6.69	129.24	120.28
1	gp	162	ARG	C-N-CA	6.69	129.24	120.28
1	hq	18	ARG	NE-CZ-NH1	6.69	128.19	121.50
1	iW	170	LYS	CA-C-O	6.69	127.59	120.70
1	jN	226	HIS	CA-C-O	6.69	128.22	120.80
1	ly	188	THR	CA-C-N	6.69	129.24	120.28
1	ly	188	THR	C-N-CA	6.69	129.24	120.28
1	2b	25	LYS	N-CA-C	6.69	118.65	111.36
1	2V	89	GLY	O-C-N	6.69	128.46	121.77
1	3j	74	ASN	CA-CB-CG	-6.69	105.91	112.60
1	4t	84	HIS	O-C-N	-6.69	115.38	121.66
1	5N	171	THR	N-CA-CB	6.69	119.77	110.07
1	6u	185	MET	O-C-N	6.69	129.77	122.15
1	6V	12	HIS	CA-CB-CG	6.69	120.49	113.80
1	72	230	VAL	N-CA-C	6.69	123.25	109.34
1	77	155	GLN	O-C-N	-6.69	114.65	122.87
1	8y	73	ILE	CA-C-O	6.69	127.90	120.95
1	8Z	220	GLY	CA-C-O	6.69	126.01	118.86
1	9f	10	MET	CA-C-N	6.69	130.03	122.48
1	9f	10	MET	C-N-CA	6.69	130.03	122.48
1	cS	96	MET	O-C-N	-6.69	115.09	123.05
1	d8	165	VAL	CA-C-O	-6.69	114.00	120.95
1	dp	176	GLN	OE1-CD-NE2	-6.69	115.91	122.60
1	dq	226	HIS	O-C-N	-6.69	114.40	122.22
1	e3	48	THR	N-CA-CB	6.69	119.07	110.04
1	eD	145	TYR	CB-CG-CD2	6.69	130.83	120.80
1	eD	173	ARG	N-CA-C	6.69	118.57	111.28
1	eN	159	GLU	CA-C-O	-6.69	112.87	119.49
1	fF	133	TRP	CB-CG-CD1	6.69	136.93	126.90
1	fG	118	MET	CG-SD-CE	-6.69	86.19	100.90
1	fM	111	LEU	N-CA-C	6.69	119.40	111.71
1	a	37	ILE	CA-C-N	6.69	126.47	119.05
1	a	37	ILE	C-N-CA	6.69	126.47	119.05
1	i	20	LEU	CA-C-N	6.69	129.13	120.44
1	i	20	LEU	C-N-CA	6.69	129.13	120.44
1	D	48	THR	N-CA-C	-6.69	102.44	110.13
1	gp	162	ARG	CD-NE-CZ	6.68	133.76	124.40
1	1E	226	HIS	CE1-NE2-CD2	-6.68	102.31	109.00
1	gD	56	LEU	N-CA-C	6.68	118.57	111.28
1	hc	19	THR	N-CA-C	6.68	118.56	111.28
1	i4	41	SER	CA-C-O	-6.68	113.80	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ii	173	ARG	NH1-CZ-NH2	-6.68	110.61	119.30
1	it	142	VAL	CB-CA-C	6.68	120.44	111.88
1	iw	201	ILE	N-CA-CB	6.68	117.91	110.62
1	iF	110	THR	CA-C-O	6.68	129.22	121.87
1	iT	25	LYS	CA-C-N	6.68	129.12	120.56
1	iT	25	LYS	C-N-CA	6.68	129.12	120.56
1	iT	166	ASP	N-CA-C	6.68	118.57	111.28
1	je	66	MET	N-CA-CB	6.68	120.09	110.06
1	jn	195	ASN	OD1-CG-ND2	-6.68	115.92	122.60
1	jo	186	THR	CA-C-N	6.68	129.24	120.28
1	jo	186	THR	C-N-CA	6.68	129.24	120.28
1	jA	62	HIS	ND1-CG-CD2	6.68	112.78	106.10
1	jD	182	LYS	N-CA-CB	6.68	120.09	110.06
1	jG	53	ASN	O-C-N	-6.68	115.03	122.12
1	jR	226	HIS	CG-CD2-NE2	6.68	113.88	107.20
1	k5	167	ARG	NE-CZ-NH1	6.68	128.19	121.50
1	k8	147	PRO	CA-C-N	6.68	130.65	120.82
1	k8	147	PRO	C-N-CA	6.68	130.65	120.82
1	kd	12	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	kk	25	LYS	N-CA-C	6.68	118.57	111.28
1	kX	144	MET	N-CA-C	6.68	118.22	111.07
1	kY	55	MET	CA-C-O	6.68	127.66	119.97
1	l9	221	VAL	CA-C-O	6.68	124.78	118.90
1	lj	114	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	lr	164	TYR	CA-C-O	6.68	127.84	120.82
1	lQ	144	MET	CG-SD-CE	-6.68	86.19	100.90
1	2l	73	ILE	N-CA-C	6.68	117.44	110.62
1	2Y	81	ASP	N-CA-C	6.68	119.40	111.71
1	2Z	124	ILE	N-CA-C	6.68	114.17	107.55
1	3f	28	GLU	O-C-N	-6.68	114.05	122.27
1	4H	193	ASN	CA-CB-CG	-6.68	105.92	112.60
1	4O	152	ASP	N-CA-C	-6.68	105.16	113.38
1	51	132	ARG	CA-C-N	6.68	129.24	120.28
1	51	132	ARG	C-N-CA	6.68	129.24	120.28
1	5e	95	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	5s	202	LEU	N-CA-C	6.68	119.40	111.71
1	5v	126	VAL	CA-C-O	6.68	128.00	121.05
1	5B	154	ARG	O-C-N	-6.68	115.37	123.19
1	5H	16	SER	N-CA-C	6.68	118.22	109.93
1	5H	117	TRP	CA-C-O	6.68	127.84	120.82
1	5Q	110	THR	N-CA-CB	6.68	121.31	110.41
1	6x	198	CYS	CA-C-N	6.68	129.24	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6x	198	CYS	C-N-CA	6.68	129.24	120.28
1	6y	160	PRO	CA-C-N	6.68	129.24	120.28
1	6y	160	PRO	C-N-CA	6.68	129.24	120.28
1	6z	162	ARG	N-CA-C	6.68	119.58	111.82
1	6B	134	ILE	CA-C-N	6.68	128.98	120.56
1	6B	134	ILE	C-N-CA	6.68	128.98	120.56
1	6C	148	THR	CA-C-O	6.68	130.07	120.51
1	6Q	60	GLY	CA-C-N	6.68	126.45	120.10
1	6Q	60	GLY	C-N-CA	6.68	126.45	120.10
1	72	147	PRO	N-CA-C	6.68	121.70	111.34
1	7k	84	HIS	CA-CB-CG	6.68	120.48	113.80
1	7L	181	VAL	CB-CA-C	-6.68	103.12	112.14
1	85	173	ARG	CA-C-N	6.68	129.24	120.28
1	85	173	ARG	C-N-CA	6.68	129.24	120.28
1	86	57	ASN	CA-CB-CG	-6.68	105.92	112.60
1	8U	84	HIS	O-C-N	-6.68	115.81	121.23
1	99	192	GLN	N-CA-C	6.68	118.22	111.07
1	9c	39	MET	CA-C-N	6.68	129.13	120.44
1	9c	39	MET	C-N-CA	6.68	129.13	120.44
1	9j	3	VAL	O-C-N	-6.68	114.97	122.66
1	9o	84	HIS	CA-C-O	-6.68	114.58	120.60
1	9v	84	HIS	CB-CA-C	6.68	118.44	109.42
1	9W	47	ALA	N-CA-C	6.68	120.06	110.10
1	ak	70	LYS	O-C-N	-6.68	115.03	122.12
1	ar	5	ASN	N-CA-C	-6.68	105.66	113.88
1	aD	57	ASN	N-CA-C	6.68	119.58	111.82
1	aM	71	GLU	N-CA-C	6.68	118.56	111.28
1	br	199	LYS	N-CA-C	6.68	118.22	111.07
1	bQ	108	THR	CA-CB-OG1	6.68	119.63	109.60
1	c1	63	GLN	N-CA-C	6.68	118.57	111.28
1	cu	136	LEU	CA-C-N	6.68	127.40	119.98
1	cu	136	LEU	C-N-CA	6.68	127.40	119.98
1	cD	117	TRP	N-CA-C	6.68	119.13	111.11
1	cQ	7	GLN	N-CA-CB	6.68	121.79	110.49
1	cS	143	ARG	NE-CZ-NH1	6.68	128.19	121.50
1	dn	39	MET	CA-C-N	6.68	129.13	120.44
1	dn	39	MET	C-N-CA	6.68	129.13	120.44
1	dp	122	PRO	CA-C-N	6.68	126.72	119.90
1	dp	122	PRO	C-N-CA	6.68	126.72	119.90
1	dx	143	ARG	NE-CZ-NH2	-6.68	113.18	119.20
1	1l	49	PRO	N-CA-CB	-6.68	96.17	103.39
1	1m	172	LEU	CA-C-O	6.68	127.50	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dM	192	GLN	N-CA-C	6.68	119.42	111.33
1	eM	6	LEU	N-CA-C	-6.68	97.98	108.14
1	f6	52	LEU	O-C-N	-6.68	115.03	122.12
1	fJ	32	PHE	CA-C-O	6.68	128.04	119.95
1	fZ	181	VAL	N-CA-C	6.68	116.84	110.42
1	j	143	ARG	N-CA-C	6.68	118.22	111.07
1	u	40	PHE	CA-C-N	6.68	129.24	120.28
1	u	40	PHE	C-N-CA	6.68	129.24	120.28
1	z	82	ARG	CA-C-O	6.68	127.64	120.55
1	T	33	SER	N-CA-C	-6.68	102.11	108.13
1	gg	146	SER	O-C-N	-6.68	115.90	121.38
1	gr	12	HIS	ND1-CE1-NE2	6.68	115.08	108.40
1	gx	116	GLY	CA-C-N	6.68	129.13	120.44
1	gx	116	GLY	C-N-CA	6.68	129.13	120.44
1	gC	88	ALA	CA-C-O	6.68	127.53	119.78
1	1F	230	VAL	CB-CA-C	-6.68	102.06	111.28
1	h3	126	VAL	N-CA-C	6.68	117.47	110.72
1	hp	161	PHE	CA-C-N	6.68	129.23	120.28
1	hp	161	PHE	C-N-CA	6.68	129.23	120.28
1	hw	132	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	hS	47	ALA	N-CA-C	6.68	119.47	109.25
1	hU	112	GLN	CB-CA-C	-6.68	99.70	110.79
1	1N	196	PRO	N-CA-C	6.68	123.71	113.75
1	ij	87	HIS	ND1-CE1-NE2	6.68	115.08	108.40
1	ir	74	ASN	O-C-N	-6.68	115.14	122.09
1	iL	89	GLY	CA-C-N	6.68	126.64	119.76
1	iL	89	GLY	C-N-CA	6.68	126.64	119.76
1	iT	102	SER	N-CA-C	6.68	119.42	111.33
1	iX	45	GLU	N-CA-C	6.68	118.56	111.28
1	j0	206	GLY	CA-C-N	6.68	126.38	119.56
1	j0	206	GLY	C-N-CA	6.68	126.38	119.56
1	j1	205	LEU	N-CA-C	-6.68	104.34	113.30
1	1T	189	LEU	O-C-N	-6.68	115.19	122.07
1	jw	195	ASN	CA-CB-CG	6.68	119.28	112.60
1	jB	58	THR	O-C-N	-6.68	112.50	122.39
1	jI	33	SER	CA-C-O	-6.68	114.35	120.50
1	ko	162	ARG	CA-C-N	6.68	130.08	120.79
1	ko	162	ARG	C-N-CA	6.68	130.08	120.79
1	kt	42	ALA	N-CA-C	6.68	119.13	111.11
1	ku	31	ALA	CB-CA-C	6.68	124.22	116.54
1	kO	171	THR	N-CA-CB	6.68	120.05	110.16
1	kP	107	THR	CB-CA-C	6.68	121.37	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l4	50	GLN	CA-C-N	6.68	129.13	120.44
1	l4	50	GLN	C-N-CA	6.68	129.13	120.44
1	lJ	48	THR	O-C-N	-6.68	114.18	121.53
1	lM	216	THR	CA-C-O	6.68	127.38	119.56
1	lQ	159	GLU	CA-C-N	6.68	126.64	119.76
1	lQ	159	GLU	C-N-CA	6.68	126.64	119.76
1	3p	181	VAL	CA-C-O	-6.68	113.77	120.85
1	3z	112	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	4v	67	GLN	CB-CG-CD	6.68	123.96	112.60
1	4A	113	GLU	O-C-N	-6.68	115.04	122.12
1	4Y	100	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	4Z	21	ASN	CB-CA-C	-6.68	99.49	110.85
1	5P	22	ALA	CA-C-N	6.68	129.13	120.44
1	5P	22	ALA	C-N-CA	6.68	129.13	120.44
1	5S	18	ARG	CA-C-N	6.68	129.24	120.28
1	5S	18	ARG	C-N-CA	6.68	129.24	120.28
1	5W	182	LYS	N-CA-C	6.68	118.22	111.07
1	6j	117	TRP	N-CA-C	6.68	120.65	112.23
1	6m	14	ALA	N-CA-C	6.68	120.32	110.30
1	6Q	67	GLN	N-CA-C	6.68	118.56	111.28
1	6V	112	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	7p	24	VAL	N-CA-C	6.68	117.44	110.62
1	7C	75	GLU	CA-C-N	6.68	129.78	120.29
1	7C	75	GLU	C-N-CA	6.68	129.78	120.29
1	7Y	26	VAL	O-C-N	-6.68	115.36	121.91
1	8q	168	PHE	CA-C-O	6.68	127.58	120.70
1	98	120	HIS	CA-CB-CG	6.68	120.48	113.80
1	9e	229	ARG	NH1-CZ-NH2	-6.68	110.61	119.30
1	9r	197	ASP	CB-CA-C	-6.68	99.70	110.79
1	9G	8	GLY	CA-C-N	6.68	133.34	122.65
1	9G	8	GLY	C-N-CA	6.68	133.34	122.65
1	9O	168	PHE	N-CA-C	6.68	118.36	111.14
1	9T	45	GLU	CA-C-O	-6.68	112.74	120.49
1	aK	92	GLU	CA-C-N	6.68	127.08	119.93
1	aK	92	GLU	C-N-CA	6.68	127.08	119.93
1	aN	139	ASN	CA-CB-CG	6.68	119.28	112.60
1	aR	226	HIS	N-CA-C	-6.68	102.33	110.88
1	aZ	187	GLU	O-C-N	-6.68	113.38	122.33
1	bp	209	ALA	N-CA-C	6.68	125.03	110.80
1	c2	190	LEU	O-C-N	-6.68	115.19	122.07
1	ca	156	GLY	CA-C-N	6.68	126.13	118.85
1	ca	156	GLY	C-N-CA	6.68	126.13	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cl	19	THR	O-C-N	-6.68	115.19	122.07
1	cX	106	GLY	CA-C-N	6.68	129.13	120.44
1	cX	106	GLY	C-N-CA	6.68	129.13	120.44
1	d8	89	GLY	O-C-N	6.68	128.45	121.77
1	dc	39	MET	CA-C-N	6.68	129.13	120.44
1	dc	39	MET	C-N-CA	6.68	129.13	120.44
1	dq	18	ARG	CA-C-O	6.68	127.84	120.82
1	en	171	THR	N-CA-CB	6.68	119.70	110.01
1	eR	135	ILE	N-CA-C	6.68	117.44	110.62
1	fs	26	VAL	CA-C-O	6.68	128.36	121.41
1	j	12	HIS	CG-CD2-NE2	6.68	113.88	107.20
1	o	213	GLU	O-C-N	-6.68	115.04	122.12
1	v	216	THR	CA-C-O	6.68	127.37	119.28
1	gE	62	HIS	ND1-CG-CD2	6.68	112.78	106.10
1	gT	11	VAL	CA-C-O	-6.68	113.52	120.27
1	h5	87	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	hS	11	VAL	O-C-N	-6.68	115.39	122.67
1	i7	167	ARG	NE-CZ-NH2	-6.68	113.19	119.20
1	iu	81	ASP	CA-CB-CG	6.68	119.28	112.60
1	iy	116	GLY	CA-C-N	6.68	129.13	120.44
1	iy	116	GLY	C-N-CA	6.68	129.13	120.44
1	1S	53	ASN	N-CA-C	6.68	118.64	111.36
1	jR	84	HIS	CA-C-N	6.68	128.19	119.84
1	jR	84	HIS	C-N-CA	6.68	128.19	119.84
1	kd	45	GLU	O-C-N	-6.68	114.67	122.95
1	kF	192	GLN	O-C-N	-6.68	115.04	122.12
1	lo	25	LYS	N-CA-C	6.68	118.22	111.07
1	40	154	ARG	CA-C-N	6.68	130.24	120.82
1	40	154	ARG	C-N-CA	6.68	130.24	120.82
1	4J	185	MET	N-CA-C	6.68	118.56	111.28
1	51	24	VAL	CA-C-N	6.68	129.23	120.28
1	51	24	VAL	C-N-CA	6.68	129.23	120.28
1	5J	160	PRO	CA-C-N	6.68	129.78	120.29
1	5J	160	PRO	C-N-CA	6.68	129.78	120.29
1	63	195	ASN	CA-CB-CG	6.68	119.28	112.60
1	68	18	ARG	N-CA-CB	6.68	119.98	109.82
1	7u	229	ARG	N-CA-C	6.68	120.30	111.28
1	7G	188	THR	O-C-N	-6.68	113.23	121.92
1	7R	173	ARG	NE-CZ-NH2	-6.68	113.19	119.20
1	8Q	91	ILE	O-C-N	-6.68	114.22	122.57
1	9f	143	ARG	N-CA-C	-6.68	104.08	111.36
1	aR	148	THR	O-C-N	6.68	131.88	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	23	TRP	CA-C-O	6.68	127.85	120.63
1	eK	148	THR	CA-C-O	6.68	128.71	121.16
1	1v	132	ARG	N-CA-C	6.68	118.56	111.28
1	1v	164	TYR	N-CA-C	6.68	119.13	111.11
1	fq	132	ARG	N-CA-C	6.68	119.41	111.33
1	E	192	GLN	O-C-N	-6.68	115.04	122.12
1	gr	12	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	gQ	143	ARG	CD-NE-CZ	-6.68	115.05	124.40
1	hn	39	MET	CA-C-N	6.68	129.52	120.44
1	hn	39	MET	C-N-CA	6.68	129.52	120.44
1	ig	228	ALA	CA-C-O	6.68	128.24	120.89
1	il	28	GLU	N-CA-C	6.68	118.22	111.07
1	iv	213	GLU	O-C-N	-6.68	115.04	122.12
1	iU	84	HIS	CB-CA-C	6.68	117.91	108.76
1	j6	134	ILE	N-CA-C	6.68	117.43	110.62
1	k5	171	THR	CA-C-N	6.68	129.90	120.28
1	k5	171	THR	C-N-CA	6.68	129.90	120.28
1	ko	176	GLN	CA-C-O	6.68	127.06	119.18
1	22	4	GLN	N-CA-C	6.68	120.87	111.52
1	l6	142	VAL	N-CA-C	6.68	117.47	110.72
1	l9	126	VAL	N-CA-C	6.68	120.39	111.17
1	39	224	PRO	CB-CA-C	6.68	119.94	111.39
1	3v	168	PHE	O-C-N	-6.68	115.19	122.07
1	3B	158	LYS	CA-C-O	6.68	127.27	119.32
1	3M	21	ASN	N-CA-C	6.68	118.22	111.07
1	42	55	MET	CA-C-N	6.68	129.12	120.44
1	42	55	MET	C-N-CA	6.68	129.12	120.44
1	53	92	GLU	O-C-N	-6.68	113.64	121.32
1	5u	18	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	5D	87	HIS	ND1-CE1-NE2	6.68	115.08	108.40
1	5G	108	THR	CA-C-O	6.68	127.36	119.48
1	63	159	GLU	CA-C-N	6.68	126.70	119.89
1	63	159	GLU	C-N-CA	6.68	126.70	119.89
1	68	66	MET	N-CA-C	6.68	118.35	111.14
1	6C	150	ILE	N-CA-C	6.68	118.23	110.62
1	6G	142	VAL	CB-CA-C	6.68	120.43	111.88
1	6S	92	GLU	CA-C-N	6.68	128.19	119.84
1	6S	92	GLU	C-N-CA	6.68	128.19	119.84
1	6T	19	THR	CA-C-N	6.68	129.23	120.28
1	6T	19	THR	C-N-CA	6.68	129.23	120.28
1	71	155	GLN	O-C-N	-6.68	115.13	123.01
1	7d	9	GLN	OE1-CD-NE2	-6.68	115.92	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7D	36	VAL	N-CA-C	6.68	119.44	111.09
1	86	187	GLU	O-C-N	-6.68	112.87	122.36
1	8c	195	ASN	O-C-N	-6.68	113.95	121.43
1	8J	67	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	8T	141	ILE	N-CA-C	6.68	117.43	110.62
1	9i	104	ILE	N-CA-C	-6.68	103.97	110.72
1	9T	215	MET	CA-C-N	6.68	131.87	120.72
1	9T	215	MET	C-N-CA	6.68	131.87	120.72
1	9Y	156	GLY	O-C-N	-6.68	115.09	121.77
1	aI	126	VAL	CA-C-N	6.68	127.54	119.99
1	aI	126	VAL	C-N-CA	6.68	127.54	119.99
1	aL	191	VAL	N-CA-C	6.68	117.43	110.62
1	14	107	THR	O-C-N	6.68	129.04	122.09
1	b4	20	LEU	O-C-N	-6.68	114.06	122.27
1	b9	21	ASN	CA-CB-CG	-6.68	105.92	112.60
1	bw	123	PRO	CB-CA-C	6.68	120.12	111.64
1	bz	43	LEU	N-CA-C	6.68	119.41	111.33
1	bQ	57	ASN	CA-C-N	6.68	129.23	120.28
1	bQ	57	ASN	C-N-CA	6.68	129.23	120.28
1	c7	7	GLN	CB-CG-CD	6.68	123.95	112.60
1	cc	226	HIS	O-C-N	-6.68	115.19	122.07
1	cn	151	LEU	CB-CA-C	-6.68	98.94	110.09
1	cx	84	HIS	CA-C-O	-6.68	114.30	119.71
1	cE	67	GLN	N-CA-C	6.68	118.56	111.28
1	dA	156	GLY	O-C-N	-6.68	115.09	121.77
1	dE	21	ASN	CA-C-N	6.68	129.23	120.28
1	dE	21	ASN	C-N-CA	6.68	129.23	120.28
1	dH	62	HIS	N-CA-C	6.68	120.62	111.54
1	1m	214	MET	N-CA-C	6.68	118.56	111.28
1	dI	167	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	dJ	180	GLU	N-CA-C	6.68	118.22	111.07
1	dY	124	ILE	CA-C-O	6.68	125.72	119.98
1	ey	48	THR	O-C-N	-6.68	114.05	121.53
1	ey	58	THR	CA-C-O	6.68	127.13	119.18
1	eD	126	VAL	N-CA-CB	6.68	117.92	110.51
1	1t	197	ASP	CA-C-N	6.68	129.77	120.29
1	1t	197	ASP	C-N-CA	6.68	129.77	120.29
1	eT	39	MET	N-CA-C	-6.68	104.08	111.36
1	1u	186	THR	OG1-CB-CG2	-6.68	95.94	109.30
1	fa	7	GLN	N-CA-C	6.68	119.92	110.50
1	fe	5	ASN	CA-CB-CG	-6.68	105.92	112.60
1	fC	50	GLN	OE1-CD-NE2	6.68	129.28	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fJ	152	ASP	N-CA-CB	-6.68	99.60	110.42
1	a	182	LYS	N-CA-C	6.68	118.22	111.07
1	b	142	VAL	N-CA-C	6.68	118.23	110.62
1	t	42	ALA	N-CA-C	6.68	118.56	111.28
1	2	181	VAL	CA-C-O	-6.68	114.09	121.17
1	y	69	LEU	N-CA-CB	-6.68	100.30	110.12
1	gi	180	GLU	N-CA-CB	6.68	119.94	110.12
1	gt	63	GLN	N-CA-C	6.68	121.02	113.01
1	h7	214	MET	CA-C-O	-6.68	113.47	120.55
1	1L	39	MET	CA-C-N	6.68	130.13	120.38
1	1L	39	MET	C-N-CA	6.68	130.13	120.38
1	ia	55	MET	N-CA-C	6.68	118.22	111.07
1	ie	33	SER	O-C-N	-6.68	115.63	121.71
1	1P	39	MET	CA-C-N	6.68	129.12	120.44
1	1P	39	MET	C-N-CA	6.68	129.12	120.44
1	j2	37	ILE	N-CA-C	6.68	123.31	108.88
1	j4	180	GLU	N-CA-C	6.68	119.39	111.71
1	ji	120	HIS	CA-CB-CG	6.68	120.48	113.80
1	jj	22	ALA	CA-C-N	6.68	129.77	120.29
1	jj	22	ALA	C-N-CA	6.68	129.77	120.29
1	k0	209	ALA	CA-C-N	6.68	130.64	120.82
1	k0	209	ALA	C-N-CA	6.68	130.64	120.82
1	2M	160	PRO	N-CA-CB	-6.68	97.71	103.32
1	3G	202	LEU	O-C-N	-6.68	114.41	122.22
1	45	53	ASN	CA-CB-CG	-6.68	105.92	112.60
1	46	97	ARG	NE-CZ-NH2	6.68	125.21	119.20
1	4e	5	ASN	O-C-N	-6.68	113.31	122.46
1	4s	86	VAL	CA-C-O	-6.68	113.47	121.28
1	5o	73	ILE	N-CA-CB	6.68	118.36	110.55
1	5Q	24	VAL	N-CA-C	6.68	116.83	110.42
1	69	130	TYR	CA-C-N	6.68	129.56	120.54
1	69	130	TYR	C-N-CA	6.68	129.56	120.54
1	8q	147	PRO	CA-C-O	-6.68	116.37	121.31
1	8X	47	ALA	N-CA-C	6.68	120.16	110.28
1	93	9	GLN	O-C-N	6.68	130.82	123.27
1	9h	198	CYS	CB-CA-C	-6.68	99.28	110.56
1	9C	85	PRO	CA-C-N	6.68	130.06	120.98
1	9C	85	PRO	C-N-CA	6.68	130.06	120.98
1	9H	108	THR	CA-C-O	6.68	127.47	119.59
1	a9	214	MET	N-CA-CB	-6.68	99.94	110.22
1	am	167	ARG	N-CA-CB	6.68	120.63	110.28
1	bT	112	GLN	O-C-N	-6.68	114.54	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	70	LYS	N-CA-C	6.68	119.39	111.71
1	cK	25	LYS	N-CA-C	6.68	122.39	111.37
1	1h	55	MET	N-CA-C	6.68	118.56	111.28
1	dT	43	LEU	N-CA-C	-6.68	105.13	113.28
1	1s	26	VAL	CA-C-N	6.68	129.61	120.46
1	1s	26	VAL	C-N-CA	6.68	129.61	120.46
1	eQ	21	ASN	CA-C-N	6.68	129.56	120.54
1	eQ	21	ASN	C-N-CA	6.68	129.56	120.54
1	fe	92	GLU	CA-C-N	6.68	128.19	119.84
1	fe	92	GLU	C-N-CA	6.68	128.19	119.84
1	ff	134	ILE	CA-C-N	6.68	129.61	120.46
1	ff	134	ILE	C-N-CA	6.68	129.61	120.46
1	D	152	ASP	CA-CB-CG	-6.68	105.92	112.60
1	Q	33	SER	CA-C-N	6.68	126.37	119.56
1	Q	33	SER	C-N-CA	6.68	126.37	119.56
1	gr	1	PRO	CA-C-N	6.68	133.18	122.50
1	gr	1	PRO	C-N-CA	6.68	133.18	122.50
1	gu	91	ILE	CB-CA-C	6.68	122.24	111.29
1	gx	219	GLN	O-C-N	-6.68	114.60	122.81
1	gM	63	GLN	OE1-CD-NE2	-6.68	115.92	122.60
1	i2	19	THR	N-CA-C	6.68	118.64	111.36
1	iy	62	HIS	ND1-CG-CD2	6.68	112.78	106.10
1	iA	115	ILE	CA-C-N	6.68	127.39	119.98
1	iA	115	ILE	C-N-CA	6.68	127.39	119.98
1	1R	153	ILE	CA-CB-CG2	-6.68	99.15	110.50
1	iN	189	LEU	N-CA-C	6.68	118.35	111.14
1	ja	32	PHE	CA-CB-CG	-6.68	107.12	113.80
1	jd	58	THR	N-CA-CB	6.68	120.86	110.44
1	jf	192	GLN	CA-C-O	6.68	127.16	119.35
1	jj	75	GLU	CA-C-N	6.68	129.53	120.38
1	jj	75	GLU	C-N-CA	6.68	129.53	120.38
1	jk	82	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	jF	144	MET	N-CA-C	6.68	119.12	111.11
1	jX	23	TRP	CB-CG-CD1	-6.68	116.89	126.90
1	ka	173	ARG	NE-CZ-NH2	-6.68	113.19	119.20
1	kM	40	PHE	N-CA-C	6.68	119.12	111.11
1	kU	162	ARG	CA-C-N	6.68	129.12	120.44
1	kU	162	ARG	C-N-CA	6.68	129.12	120.44
1	l2	111	LEU	CA-C-N	6.68	129.12	120.44
1	l2	111	LEU	C-N-CA	6.68	129.12	120.44
1	lc	12	HIS	CB-CG-CD2	-6.68	122.52	131.20
1	lm	18	ARG	CA-C-O	-6.68	113.47	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2b	143	ARG	CA-C-N	6.68	129.12	120.44
1	2b	143	ARG	C-N-CA	6.68	129.12	120.44
1	3K	96	MET	N-CA-C	6.68	120.16	110.28
1	3Z	223	GLY	CA-C-O	-6.68	115.50	122.38
1	4v	201	ILE	CA-C-N	6.68	129.23	120.28
1	4v	201	ILE	C-N-CA	6.68	129.23	120.28
1	4y	175	GLU	N-CA-C	6.68	119.91	110.23
1	4F	175	GLU	N-CA-C	6.68	119.90	111.69
1	4Q	104	ILE	O-C-N	6.68	128.34	121.87
1	51	50	GLN	CA-C-N	6.68	129.12	120.44
1	51	50	GLN	C-N-CA	6.68	129.12	120.44
1	5X	45	GLU	N-CA-C	6.68	118.76	109.15
1	66	80	TRP	N-CA-C	6.68	119.41	111.33
1	6i	199	LYS	O-C-N	-6.68	115.19	122.07
1	6m	144	MET	CG-SD-CE	-6.68	86.21	100.90
1	6u	170	LYS	N-CA-C	6.68	118.21	111.07
1	6E	152	ASP	N-CA-C	6.68	119.56	111.82
1	70	17	PRO	N-CA-C	-6.68	105.82	114.03
1	7q	198	CYS	N-CA-CB	6.68	119.93	110.12
1	7L	73	ILE	O-C-N	-6.68	115.37	121.91
1	9d	125	PRO	CA-C-N	6.68	129.21	120.60
1	9d	125	PRO	C-N-CA	6.68	129.21	120.60
1	9g	167	ARG	NH1-CZ-NH2	-6.68	110.62	119.30
1	9t	32	PHE	N-CA-C	6.68	120.38	111.30
1	9H	114	GLN	N-CA-C	6.68	118.21	111.07
1	a4	21	ASN	CA-CB-CG	-6.68	105.92	112.60
1	a4	101	GLY	O-C-N	-6.68	115.69	122.17
1	ax	143	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	ay	50	GLN	N-CA-C	6.68	118.56	111.28
1	aD	172	LEU	CB-CA-C	6.68	121.36	110.88
1	aV	194	ALA	CA-C-N	6.68	133.84	121.69
1	aV	194	ALA	C-N-CA	6.68	133.84	121.69
1	ba	226	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	17	142	VAL	CA-C-O	-6.68	114.01	120.95
1	bq	203	LYS	O-C-N	-6.68	113.48	122.43
1	bw	204	ALA	O-C-N	-6.68	114.54	122.15
1	bA	226	HIS	ND1-CE1-NE2	6.68	115.08	108.40
1	bN	132	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	bT	209	ALA	N-CA-C	6.68	118.92	110.24
1	ck	38	PRO	CA-C-N	6.68	129.23	120.28
1	ck	38	PRO	C-N-CA	6.68	129.23	120.28
1	co	182	LYS	N-CA-C	6.68	120.30	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cV	211	LEU	O-C-N	-6.68	114.41	122.22
1	d7	82	ARG	NE-CZ-NH1	6.68	128.18	121.50
1	d7	87	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	de	113	GLU	N-CA-C	6.68	118.64	111.36
1	de	118	MET	CA-C-O	6.68	127.13	119.18
1	1n	159	GLU	N-CA-C	6.68	117.28	109.60
1	dV	44	SER	CA-C-N	6.68	129.53	120.38
1	dV	44	SER	C-N-CA	6.68	129.53	120.38
1	dY	86	VAL	CA-CB-CG1	6.68	121.75	110.40
1	dZ	94	GLY	CA-C-O	6.68	126.38	118.97
1	dZ	188	THR	CA-C-N	6.68	129.90	120.28
1	dZ	188	THR	C-N-CA	6.68	129.90	120.28
1	e6	57	ASN	O-C-N	-6.68	113.25	122.46
1	es	87	HIS	CE1-NE2-CD2	-6.68	102.32	109.00
1	eF	153	ILE	N-CA-C	6.68	123.23	109.34
1	fg	59	VAL	CA-C-O	6.68	128.70	121.36
1	fu	217	ALA	N-CA-C	6.68	119.91	110.50
1	fL	197	ASP	N-CA-C	-6.68	105.10	113.18
1	fM	208	ALA	CA-C-O	-6.68	111.87	119.41
1	fU	182	LYS	CA-C-N	6.68	129.55	120.54
1	fU	182	LYS	C-N-CA	6.68	129.55	120.54
1	fX	209	ALA	CA-C-O	6.68	128.63	121.55
1	f	2	ILE	CA-C-N	6.68	130.89	120.34
1	f	2	ILE	C-N-CA	6.68	130.89	120.34
1	E	164	TYR	N-CA-C	6.68	118.21	111.07
1	L	171	THR	CA-C-O	6.68	127.83	120.82
1	8	54	THR	O-C-N	-6.68	115.15	122.09
1	gc	62	HIS	N-CA-C	6.67	120.78	112.24
1	gu	88	ALA	N-CA-C	6.67	119.40	109.59
1	1E	98	GLU	O-C-N	-6.67	115.64	121.31
1	gJ	185	MET	N-CA-C	6.67	119.39	111.71
1	gO	174	ALA	N-CA-C	6.67	119.12	111.11
1	hG	11	VAL	CA-CB-CG2	-6.67	99.05	110.40
1	hS	50	GLN	N-CA-C	6.67	118.55	111.28
1	i0	158	LYS	N-CA-C	-6.67	102.46	111.87
1	i1	195	ASN	CA-C-O	-6.67	113.15	120.69
1	i5	53	ASN	CA-CB-CG	-6.67	105.93	112.60
1	iz	5	ASN	OD1-CG-ND2	-6.67	115.92	122.60
1	iM	51	ASP	O-C-N	-6.67	115.19	122.07
1	iO	214	MET	O-C-N	-6.67	115.05	122.12
1	iS	209	ALA	N-CA-C	6.67	119.91	110.50
1	j3	25	LYS	N-CA-C	6.67	118.56	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jC	81	ASP	CA-C-N	6.67	129.55	120.54
1	jC	81	ASP	C-N-CA	6.67	129.55	120.54
1	jF	172	LEU	O-C-N	-6.67	113.54	122.22
1	jW	19	THR	O-C-N	-6.67	115.05	122.12
1	24	194	ALA	O-C-N	-6.67	114.75	122.89
1	kR	26	VAL	CA-CB-CG2	-6.67	99.06	110.40
1	li	108	THR	CA-CB-OG1	6.67	119.61	109.60
1	ll	185	MET	CG-SD-CE	-6.67	86.21	100.90
1	lD	133	TRP	N-CA-C	6.67	118.56	111.28
1	lH	167	ARG	N-CA-C	6.67	118.35	111.14
1	2A	84	HIS	CA-CB-CG	6.67	120.47	113.80
1	2E	50	GLN	CA-C-N	6.67	129.12	120.44
1	2E	50	GLN	C-N-CA	6.67	129.12	120.44
1	2U	205	LEU	CA-C-N	6.67	132.35	121.87
1	2U	205	LEU	C-N-CA	6.67	132.35	121.87
1	33	228	ALA	CA-C-N	6.67	129.12	120.44
1	33	228	ALA	C-N-CA	6.67	129.12	120.44
1	3G	215	MET	N-CA-C	6.67	118.21	111.07
1	3S	35	GLU	N-CA-C	6.67	119.41	111.33
1	4s	11	VAL	N-CA-C	6.67	117.45	108.11
1	5i	181	VAL	N-CA-C	-6.67	103.98	110.72
1	67	20	LEU	N-CA-C	6.67	118.56	111.28
1	6j	139	ASN	CA-C-O	-6.67	113.48	120.55
1	6t	150	ILE	O-C-N	-6.67	115.40	121.87
1	6I	23	TRP	CB-CG-CD1	-6.67	116.89	126.90
1	6R	205	LEU	N-CA-C	6.67	118.56	111.28
1	7U	146	SER	O-C-N	-6.67	114.80	121.27
1	8i	51	ASP	CA-CB-CG	-6.67	105.93	112.60
1	8y	70	LYS	CA-C-N	6.67	129.22	120.28
1	8y	70	LYS	C-N-CA	6.67	129.22	120.28
1	8F	201	ILE	CA-C-N	6.67	129.89	120.28
1	8F	201	ILE	C-N-CA	6.67	129.89	120.28
1	8G	119	THR	N-CA-CB	6.67	120.47	110.53
1	8Y	130	TYR	CA-C-O	6.67	127.83	120.82
1	9j	54	THR	O-C-N	-6.67	115.05	122.12
1	9k	116	GLY	CA-C-N	6.67	129.46	120.65
1	9k	116	GLY	C-N-CA	6.67	129.46	120.65
1	9n	82	ARG	NE-CZ-NH2	6.67	125.21	119.20
1	9Z	21	ASN	CA-CB-CG	6.67	119.28	112.60
1	an	138	LEU	CA-C-N	6.67	129.12	120.44
1	an	138	LEU	C-N-CA	6.67	129.12	120.44
1	aC	22	ALA	O-C-N	-6.67	115.04	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bH	64	ALA	O-C-N	6.67	129.30	122.09
1	c0	113	GLU	CA-C-O	-6.67	113.81	120.82
1	cr	204	ALA	N-CA-C	6.67	118.35	111.14
1	cA	167	ARG	NE-CZ-NH2	-6.67	113.19	119.20
1	cG	35	GLU	CA-C-N	6.67	129.60	120.46
1	cG	35	GLU	C-N-CA	6.67	129.60	120.46
1	cW	170	LYS	N-CA-C	6.67	119.56	111.82
1	dM	8	GLY	CA-C-N	6.67	131.42	120.94
1	dM	8	GLY	C-N-CA	6.67	131.42	120.94
1	e6	102	SER	CA-C-N	6.67	129.22	120.28
1	e6	102	SER	C-N-CA	6.67	129.22	120.28
1	e7	112	GLN	N-CA-C	6.67	118.56	111.28
1	eH	162	ARG	NE-CZ-NH1	6.67	128.18	121.50
1	fn	188	THR	O-C-N	-6.67	113.71	122.59
1	g2	72	THR	N-CA-CB	6.67	119.89	109.94
1	c	101	GLY	CA-C-N	6.67	130.45	120.31
1	c	101	GLY	C-N-CA	6.67	130.45	120.31
1	D	32	PHE	CA-CB-CG	-6.67	107.12	113.80
1	gn	131	LYS	O-C-N	-6.67	115.15	122.09
1	gp	18	ARG	CA-C-N	6.67	129.22	120.28
1	gp	18	ARG	C-N-CA	6.67	129.22	120.28
1	gP	143	ARG	CA-C-O	6.67	127.84	120.63
1	h9	168	PHE	N-CA-C	6.67	118.55	111.28
1	hO	120	HIS	CB-CG-CD2	-6.67	122.53	131.20
1	i6	125	PRO	CA-C-N	6.67	129.94	120.53
1	i6	125	PRO	C-N-CA	6.67	129.94	120.53
1	iF	126	VAL	CA-C-N	6.67	127.35	119.94
1	iF	126	VAL	C-N-CA	6.67	127.35	119.94
1	1R	185	MET	N-CA-C	6.67	118.55	111.28
1	je	114	GLN	CA-C-O	6.67	127.62	120.55
1	jm	138	LEU	CA-C-N	6.67	129.55	120.54
1	jm	138	LEU	C-N-CA	6.67	129.55	120.54
1	jp	212	GLU	N-CA-CB	-6.67	100.31	110.12
1	jw	183	ASN	CA-CB-CG	-6.67	105.93	112.60
1	jG	156	GLY	CA-C-O	-6.67	115.51	122.38
1	ke	200	THR	O-C-N	-6.67	114.41	122.22
1	lh	202	LEU	N-CA-C	6.67	118.55	111.28
1	lM	226	HIS	ND1-CE1-NE2	6.67	115.07	108.40
1	3h	81	ASP	CA-CB-CG	-6.67	105.93	112.60
1	49	179	GLN	OE1-CD-NE2	-6.67	115.93	122.60
1	4i	180	GLU	N-CA-C	6.67	119.41	111.33
1	4x	92	GLU	CA-C-N	6.67	128.18	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4x	92	GLU	C-N-CA	6.67	128.18	119.84
1	5c	190	LEU	CA-C-N	6.67	129.60	120.46
1	5c	190	LEU	C-N-CA	6.67	129.60	120.46
1	5f	82	ARG	CG-CD-NE	-6.67	97.32	112.00
1	6M	194	ALA	N-CA-CB	-6.67	101.24	110.38
1	77	61	GLY	O-C-N	-6.67	115.25	123.12
1	7S	161	PHE	CA-CB-CG	-6.67	107.13	113.80
1	83	175	GLU	CB-CG-CD	6.67	123.94	112.60
1	8Q	154	ARG	N-CA-C	6.67	117.39	108.38
1	9r	50	GLN	O-C-N	-6.67	115.15	122.09
1	9V	48	THR	N-CA-CB	6.67	119.05	110.04
1	au	33	SER	N-CA-C	6.67	117.27	109.60
1	bq	59	VAL	N-CA-C	6.67	117.37	110.36
1	19	133	TRP	N-CA-C	6.67	118.55	111.28
1	bY	32	PHE	O-C-N	-6.67	114.05	122.26
1	cU	226	HIS	CG-CD2-NE2	6.67	113.87	107.20
1	dd	181	VAL	N-CA-C	6.67	117.37	110.36
1	e2	115	ILE	CA-C-N	6.67	127.50	120.03
1	e2	115	ILE	C-N-CA	6.67	127.50	120.03
1	e8	98	GLU	CA-C-N	6.67	127.04	119.83
1	e8	98	GLU	C-N-CA	6.67	127.04	119.83
1	eA	77	ALA	N-CA-C	6.67	118.55	111.28
1	fl	129	ILE	O-C-N	-6.67	115.35	121.89
1	fB	63	GLN	N-CA-C	6.67	119.38	111.71
1	fC	51	ASP	CA-C-N	6.67	129.22	120.28
1	fC	51	ASP	C-N-CA	6.67	129.22	120.28
1	fP	97	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	h	62	HIS	CB-CG-ND1	6.67	132.71	122.70
1	G	162	ARG	N-CA-C	6.67	119.41	111.33
1	M	190	LEU	N-CA-C	6.67	118.55	111.28
1	Q	35	GLU	CA-C-N	6.67	128.97	120.56
1	Q	35	GLU	C-N-CA	6.67	128.97	120.56
1	gg	219	GLN	CA-C-N	6.67	134.49	121.41
1	gg	219	GLN	C-N-CA	6.67	134.49	121.41
1	gq	195	ASN	CA-C-O	-6.67	113.41	120.88
1	gr	229	ARG	NH1-CZ-NH2	-6.67	110.63	119.30
1	gE	53	ASN	OD1-CG-ND2	-6.67	115.93	122.60
1	gZ	75	GLU	O-C-N	-6.67	115.05	122.12
1	h5	227	LYS	CA-C-O	6.67	128.70	121.16
1	he	57	ASN	CA-CB-CG	-6.67	105.93	112.60
1	1J	186	THR	CA-C-O	-6.67	113.81	120.82
1	hH	229	ARG	NE-CZ-NH2	6.67	125.20	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hU	134	ILE	N-CA-C	6.67	116.83	110.42
1	io	9	GLN	CA-C-N	6.67	132.09	122.35
1	io	9	GLN	C-N-CA	6.67	132.09	122.35
1	iq	195	ASN	CB-CA-C	6.67	119.07	109.26
1	iS	165	VAL	CA-CB-CG1	6.67	121.74	110.40
1	iV	135	ILE	N-CA-C	6.67	117.42	110.62
1	iY	70	LYS	N-CA-C	6.67	118.55	111.28
1	j6	192	GLN	OE1-CD-NE2	-6.67	115.93	122.60
1	jd	37	ILE	CA-C-O	-6.67	114.22	118.69
1	jg	57	ASN	OD1-CG-ND2	-6.67	115.93	122.60
1	jy	78	ALA	CA-C-O	6.67	127.62	120.55
1	jB	65	ALA	O-C-N	-6.67	115.20	122.07
1	jE	88	ALA	N-CA-C	6.67	119.69	110.35
1	1X	68	MET	N-CA-C	6.67	118.55	111.28
1	jU	140	LYS	CB-CA-C	-6.67	99.51	110.85
1	k2	163	ASP	CA-CB-CG	-6.67	105.93	112.60
1	kd	126	VAL	CA-C-N	6.67	127.34	120.00
1	kd	126	VAL	C-N-CA	6.67	127.34	120.00
1	kr	100	ARG	O-C-N	-6.67	116.01	123.48
1	kI	159	GLU	N-CA-C	6.67	121.52	109.44
1	kY	81	ASP	N-CA-CB	-6.67	100.40	110.07
1	l1	12	HIS	O-C-N	-6.67	114.56	122.96
1	26	50	GLN	CA-C-N	6.67	129.11	120.44
1	26	50	GLN	C-N-CA	6.67	129.11	120.44
1	lt	18	ARG	NE-CZ-NH2	-6.67	113.20	119.20
1	2h	135	ILE	CA-C-O	-6.67	113.78	120.85
1	3c	21	ASN	CA-CB-CG	6.67	119.27	112.60
1	3s	5	ASN	N-CA-C	6.67	118.55	111.28
1	3K	132	ARG	NE-CZ-NH2	-6.67	113.20	119.20
1	3X	67	GLN	O-C-N	-6.67	114.55	122.15
1	4e	154	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	4q	174	ALA	N-CA-C	6.67	119.56	111.82
1	4E	195	ASN	CB-CG-ND2	6.67	126.41	116.40
1	55	133	TRP	CA-C-O	6.67	127.49	120.42
1	55	195	ASN	CA-CB-CG	6.67	119.27	112.60
1	5s	50	GLN	O-C-N	-6.67	115.15	122.09
1	5t	143	ARG	N-CA-C	6.67	118.21	111.07
1	5D	143	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	5I	87	HIS	N-CA-C	6.67	120.16	110.42
1	6C	138	LEU	CA-C-N	6.67	129.52	120.38
1	6C	138	LEU	C-N-CA	6.67	129.52	120.38
1	6L	63	GLN	CA-C-N	6.67	129.46	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	63	GLN	C-N-CA	6.67	129.46	120.65
1	6N	108	THR	CB-CA-C	-6.67	98.95	110.09
1	6Q	148	THR	N-CA-C	-6.67	98.58	108.79
1	73	177	ALA	CA-C-N	6.67	131.25	121.31
1	73	177	ALA	C-N-CA	6.67	131.25	121.31
1	7k	139	ASN	OD1-CG-ND2	-6.67	115.93	122.60
1	7k	152	ASP	CA-C-O	6.67	127.72	119.78
1	7L	200	THR	N-CA-C	6.67	118.21	111.07
1	7T	132	ARG	CA-C-O	-6.67	113.76	120.90
1	7Y	125	PRO	CA-C-N	6.67	129.21	120.60
1	7Y	125	PRO	C-N-CA	6.67	129.21	120.60
1	80	223	GLY	CA-C-N	6.67	126.12	118.85
1	80	223	GLY	C-N-CA	6.67	126.12	118.85
1	86	202	LEU	N-CA-C	6.67	118.55	111.28
1	8l	198	CYS	O-C-N	-6.67	114.55	122.15
1	8s	128	GLU	O-C-N	-6.67	115.15	122.09
1	8C	50	GLN	OE1-CD-NE2	6.67	129.27	122.60
1	9u	228	ALA	CA-C-O	-6.67	113.44	121.05
1	9x	160	PRO	N-CA-CB	6.67	109.16	103.35
1	9G	221	VAL	CA-C-O	6.67	127.68	120.47
1	aa	190	LEU	CA-C-O	-6.67	113.81	120.82
1	aw	5	ASN	CA-C-O	-6.67	111.38	119.32
1	aw	59	VAL	N-CA-CB	6.67	120.08	111.67
1	ax	212	GLU	O-C-N	-6.67	114.06	122.27
1	az	18	ARG	NE-CZ-NH2	-6.67	113.20	119.20
1	aB	159	GLU	CB-CA-C	6.67	117.52	109.31
1	aE	25	LYS	N-CA-C	6.67	119.12	111.11
1	aI	96	MET	CG-SD-CE	-6.67	86.22	100.90
1	aV	199	LYS	O-C-N	-6.67	115.05	122.12
1	aZ	73	ILE	O-C-N	6.67	128.45	121.91
1	bd	210	THR	CA-C-N	6.67	129.76	120.29
1	bd	210	THR	C-N-CA	6.67	129.76	120.29
1	bZ	128	GLU	N-CA-C	6.67	118.63	111.36
1	c2	169	TYR	N-CA-C	6.67	118.55	111.28
1	c8	101	GLY	O-C-N	-6.67	115.78	122.19
1	c9	162	ARG	CA-C-N	6.67	129.11	120.44
1	c9	162	ARG	C-N-CA	6.67	129.11	120.44
1	cI	3	VAL	CB-CA-C	6.67	120.07	110.33
1	cR	42	ALA	N-CA-CB	-6.67	99.53	110.40
1	cT	189	LEU	N-CA-C	6.67	118.44	111.03
1	1h	191	VAL	CA-C-N	6.67	129.22	120.28
1	1h	191	VAL	C-N-CA	6.67	129.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d0	69	LEU	N-CA-C	6.67	118.21	111.07
1	d6	140	LYS	N-CA-C	6.67	118.63	111.36
1	dk	111	LEU	CA-C-N	6.67	129.11	120.44
1	dk	111	LEU	C-N-CA	6.67	129.11	120.44
1	dJ	5	ASN	CA-CB-CG	6.67	119.27	112.60
1	dU	50	GLN	CA-C-O	6.67	128.04	120.90
1	dY	149	SER	O-C-N	-6.67	114.49	123.10
1	ed	201	ILE	CA-C-N	6.67	129.22	120.28
1	ed	201	ILE	C-N-CA	6.67	129.22	120.28
1	ep	165	VAL	O-C-N	-6.67	115.40	121.87
1	et	227	LYS	N-CA-C	6.67	125.01	110.80
1	eQ	39	MET	CA-C-O	-6.67	113.81	120.82
1	eQ	127	GLY	CA-C-N	6.67	129.22	120.28
1	eQ	127	GLY	C-N-CA	6.67	129.22	120.28
1	fb	182	LYS	O-C-N	-6.67	115.20	122.07
1	fh	117	TRP	N-CA-C	6.67	118.55	111.28
1	fl	37	ILE	CA-C-N	6.67	126.12	118.85
1	fl	37	ILE	C-N-CA	6.67	126.12	118.85
1	fI	171	THR	O-C-N	-6.67	115.05	122.12
1	E	167	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	h1	95	GLN	N-CA-C	6.67	120.15	110.28
1	hg	203	LYS	CA-C-N	6.67	129.11	120.44
1	hg	203	LYS	C-N-CA	6.67	129.11	120.44
1	hk	99	PRO	N-CA-CB	6.67	109.12	103.25
1	1T	179	GLN	N-CA-C	6.67	122.38	111.37
1	1U	103	ASP	O-C-N	-6.67	115.05	122.12
1	k3	169	TYR	O-C-N	-6.67	113.26	122.46
1	kj	84	HIS	CA-CB-CG	6.67	120.47	113.80
1	ky	114	GLN	OE1-CD-NE2	-6.67	115.93	122.60
1	l1	68	MET	N-CA-C	6.67	118.55	111.28
1	lA	161	PHE	CA-CB-CG	-6.67	107.13	113.80
1	lN	77	ALA	CA-C-N	6.67	129.11	120.44
1	lN	77	ALA	C-N-CA	6.67	129.11	120.44
1	4F	228	ALA	N-CA-C	6.67	120.04	110.10
1	5W	135	ILE	N-CA-CB	6.67	120.58	110.58
1	6B	69	LEU	O-C-N	-6.67	115.20	122.07
1	7s	18	ARG	O-C-N	-6.67	115.20	122.07
1	7z	84	HIS	CA-C-N	6.67	128.18	119.84
1	7z	84	HIS	C-N-CA	6.67	128.18	119.84
1	8R	101	GLY	O-C-N	-6.67	115.01	122.28
1	au	42	ALA	O-C-N	-6.67	114.55	122.15
1	1c	2	ILE	O-C-N	-6.67	115.09	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cf	116	GLY	CA-C-O	6.67	127.62	120.75
1	cp	117	TRP	CB-CG-CD1	-6.67	116.90	126.90
1	cz	90	PRO	N-CA-C	6.67	121.55	111.14
1	dg	169	TYR	CA-C-N	6.67	129.22	120.28
1	dg	169	TYR	C-N-CA	6.67	129.22	120.28
1	dO	33	SER	CA-C-O	-6.67	113.11	119.91
1	f1	172	LEU	O-C-N	-6.67	115.05	122.12
1	fe	198	CYS	N-CA-C	-6.67	105.30	113.50
1	g5	66	MET	CA-C-O	6.67	127.62	120.55
1	p	18	ARG	CA-C-O	6.67	127.82	120.82
1	t	100	ARG	CA-C-N	6.67	127.53	119.99
1	t	100	ARG	C-N-CA	6.67	127.53	119.99
1	gd	179	GLN	N-CA-C	6.67	118.55	111.28
1	gJ	185	MET	CA-C-O	6.67	127.64	120.10
1	gN	115	ILE	O-C-N	6.67	128.70	121.83
1	gZ	133	TRP	CA-C-O	6.67	127.62	120.55
1	h8	142	VAL	N-CA-C	6.67	116.82	110.42
1	hk	120	HIS	ND1-CE1-NE2	6.67	115.07	108.40
1	hr	104	ILE	N-CA-C	6.67	116.82	110.42
1	il	185	MET	CA-C-N	6.67	129.11	120.44
1	il	185	MET	C-N-CA	6.67	129.11	120.44
1	in	151	LEU	CA-C-N	6.67	129.54	120.54
1	in	151	LEU	C-N-CA	6.67	129.54	120.54
1	iA	165	VAL	CA-C-N	6.67	129.76	120.29
1	iA	165	VAL	C-N-CA	6.67	129.76	120.29
1	iH	181	VAL	CA-C-O	6.67	127.89	120.95
1	jg	8	GLY	CA-C-O	-6.67	114.36	122.03
1	jq	106	GLY	CA-C-N	6.67	129.11	120.44
1	jq	106	GLY	C-N-CA	6.67	129.11	120.44
1	jt	7	GLN	CA-C-N	6.67	132.22	122.28
1	jt	7	GLN	C-N-CA	6.67	132.22	122.28
1	jE	132	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	kh	100	ARG	NE-CZ-NH2	-6.67	113.20	119.20
1	22	35	GLU	CA-C-O	6.67	126.11	118.97
1	kA	165	VAL	CA-C-N	6.67	129.11	120.44
1	kA	165	VAL	C-N-CA	6.67	129.11	120.44
1	kA	229	ARG	NE-CZ-NH2	6.67	125.20	119.20
1	kC	111	LEU	CA-C-O	-6.67	113.43	120.63
1	kS	97	ARG	NH1-CZ-NH2	-6.67	110.63	119.30
1	l9	62	HIS	CB-CG-ND1	-6.67	112.70	122.70
1	lB	139	ASN	CA-CB-CG	6.67	119.27	112.60
1	lL	225	GLY	CA-C-O	6.67	126.16	118.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lP	115	ILE	CA-C-O	6.67	128.20	121.27
1	2d	87	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
1	2P	113	GLU	N-CA-C	6.67	118.20	111.07
1	3g	141	ILE	O-C-N	-6.67	115.40	121.87
1	3m	56	LEU	O-C-N	-6.67	114.42	122.22
1	3I	68	MET	CA-C-O	6.67	127.49	120.42
1	47	154	ARG	NH1-CZ-NH2	-6.67	110.63	119.30
1	4b	144	MET	CA-C-N	6.67	134.38	121.18
1	4b	144	MET	C-N-CA	6.67	134.38	121.18
1	4K	226	HIS	ND1-CE1-NE2	6.67	115.07	108.40
1	4N	105	ALA	CA-C-O	6.67	127.65	119.11
1	5d	208	ALA	N-CA-C	-6.67	104.28	112.88
1	5m	33	SER	N-CA-C	6.67	119.11	109.84
1	5m	173	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	5o	25	LYS	O-C-N	6.67	128.94	122.07
1	6D	131	LYS	CA-C-O	-6.67	113.48	120.55
1	6J	97	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	7t	132	ARG	NE-CZ-NH2	6.67	125.20	119.20
1	7B	23	TRP	CD2-CE2-CZ2	-6.67	115.73	122.40
1	7F	126	VAL	N-CA-C	6.67	117.45	110.72
1	7N	16	SER	CA-C-N	6.67	127.20	119.47
1	7N	16	SER	C-N-CA	6.67	127.20	119.47
1	7R	165	VAL	O-C-N	-6.67	114.96	121.83
1	8e	108	THR	CA-C-O	6.67	128.02	119.95
1	8x	86	VAL	CA-C-O	-6.67	113.43	120.57
1	91	229	ARG	CD-NE-CZ	6.67	133.74	124.40
1	9G	48	THR	CA-C-O	-6.67	114.60	120.60
1	9Y	123	PRO	CB-CA-C	6.67	119.72	111.12
1	a9	40	PHE	O-C-N	-6.67	114.55	122.15
1	ah	35	GLU	N-CA-C	6.67	119.38	111.71
1	14	79	GLU	N-CA-C	6.67	118.55	111.28
1	b9	170	LYS	N-CA-CB	6.67	121.46	110.39
1	bd	219	GLN	N-CA-C	6.67	119.90	110.50
1	bp	87	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
1	cV	51	ASP	N-CA-C	6.67	118.55	111.28
1	cZ	134	ILE	CA-C-N	6.67	128.96	120.56
1	cZ	134	ILE	C-N-CA	6.67	128.96	120.56
1	d2	224	PRO	CA-C-N	6.67	128.06	120.53
1	d2	224	PRO	C-N-CA	6.67	128.06	120.53
1	do	131	LYS	CA-C-O	6.67	127.64	119.97
1	dL	165	VAL	CA-C-N	6.67	129.51	120.44
1	dL	165	VAL	C-N-CA	6.67	129.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dU	55	MET	N-CA-C	6.67	118.55	111.28
1	e9	38	PRO	O-C-N	6.67	130.57	122.23
1	eE	13	GLN	CA-C-N	6.67	130.34	120.87
1	eE	13	GLN	C-N-CA	6.67	130.34	120.87
1	fu	165	VAL	O-C-N	-6.67	115.13	121.87
1	fF	120	HIS	CA-CB-CG	6.67	120.47	113.80
1	fR	16	SER	CA-C-N	6.67	127.20	119.47
1	fR	16	SER	C-N-CA	6.67	127.20	119.47
1	fR	87	HIS	ND1-CE1-NE2	6.67	115.07	108.40
1	b	223	GLY	CA-C-O	-6.67	111.98	121.52
1	6	46	GLY	CA-C-N	6.67	130.29	120.95
1	6	46	GLY	C-N-CA	6.67	130.29	120.95
1	8	15	ILE	N-CA-C	6.67	118.04	109.30
1	h5	59	VAL	N-CA-C	6.67	116.84	107.37
1	hi	154	ARG	NE-CZ-NH1	6.67	128.17	121.50
1	hs	180	GLU	N-CA-C	6.67	119.40	111.33
1	hG	177	ALA	N-CA-C	6.67	119.90	110.50
1	hQ	105	ALA	O-C-N	-6.67	112.70	122.43
1	hV	52	LEU	N-CA-C	-6.67	104.09	111.36
1	jf	128	GLU	N-CA-C	6.67	118.55	111.28
1	jp	111	LEU	N-CA-C	6.67	118.55	111.28
1	jT	187	GLU	N-CA-CB	6.67	120.57	110.30
1	kb	47	ALA	N-CA-C	6.67	120.04	110.24
1	le	131	LYS	N-CA-C	6.67	119.40	111.33
1	lI	195	ASN	CA-C-O	-6.67	113.43	120.70
1	2f	193	ASN	CA-C-O	-6.67	112.08	119.95
1	2p	169	TYR	N-CA-C	6.67	118.55	111.28
1	2t	161	PHE	N-CA-C	6.67	118.55	111.28
1	2A	129	ILE	CA-C-N	6.67	129.11	120.44
1	2A	129	ILE	C-N-CA	6.67	129.11	120.44
1	2J	203	LYS	N-CA-C	6.67	118.63	111.36
1	2S	75	GLU	CA-C-N	6.67	129.11	120.44
1	2S	75	GLU	C-N-CA	6.67	129.11	120.44
1	43	190	LEU	N-CA-C	6.67	118.55	111.28
1	4d	26	VAL	N-CA-C	6.67	119.42	111.09
1	4j	192	GLN	N-CA-C	6.67	118.55	111.28
1	4H	55	MET	CG-SD-CE	-6.67	86.23	100.90
1	4K	55	MET	N-CA-C	6.67	118.55	111.28
1	5k	216	THR	CA-C-O	6.67	127.50	119.43
1	5m	12	HIS	CG-CD2-NE2	6.67	113.87	107.20
1	5s	134	ILE	N-CA-C	6.67	116.82	110.42
1	5y	112	GLN	N-CA-C	6.67	119.40	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5B	164	TYR	N-CA-C	6.67	118.20	111.07
1	5T	74	ASN	CA-C-N	6.67	129.11	120.44
1	5T	74	ASN	C-N-CA	6.67	129.11	120.44
1	65	104	ILE	N-CA-C	6.67	117.42	110.62
1	6g	53	ASN	CA-C-O	-6.67	113.35	120.42
1	6g	64	ALA	CB-CA-C	6.67	122.18	110.85
1	6i	63	GLN	N-CA-CB	6.67	119.64	109.91
1	7r	188	THR	CA-CB-OG1	6.67	119.60	109.60
1	7t	159	GLU	O-C-N	6.67	125.98	121.71
1	7z	52	LEU	CA-C-N	6.67	129.10	120.44
1	7z	52	LEU	C-N-CA	6.67	129.10	120.44
1	7I	176	GLN	OE1-CD-NE2	-6.67	115.93	122.60
1	7M	134	ILE	CB-CA-C	-6.67	103.44	111.97
1	7N	136	LEU	CA-C-N	6.67	127.38	119.98
1	7N	136	LEU	C-N-CA	6.67	127.38	119.98
1	8z	159	GLU	CA-C-N	6.67	126.65	119.78
1	8z	159	GLU	C-N-CA	6.67	126.65	119.78
1	8D	101	GLY	CA-C-N	6.67	129.11	120.44
1	8D	101	GLY	C-N-CA	6.67	129.11	120.44
1	95	173	ARG	N-CA-C	6.67	119.11	111.11
1	9o	193	ASN	OD1-CG-ND2	-6.67	115.93	122.60
1	9E	41	SER	N-CA-C	6.67	119.40	111.33
1	Z	227	LYS	N-CA-C	-6.67	105.18	113.38
1	a9	61	GLY	N-CA-C	6.67	123.42	112.89
1	aB	205	LEU	CA-C-N	6.67	132.34	121.87
1	aB	205	LEU	C-N-CA	6.67	132.34	121.87
1	aG	41	SER	CA-C-N	6.67	129.11	120.44
1	aG	41	SER	C-N-CA	6.67	129.11	120.44
1	16	213	GLU	CA-C-N	6.67	129.21	120.28
1	16	213	GLU	C-N-CA	6.67	129.21	120.28
1	bh	87	HIS	N-CA-C	6.67	120.15	110.42
1	bh	191	VAL	N-CA-C	6.67	116.82	110.42
1	bx	95	GLN	N-CA-C	6.67	119.42	110.35
1	bF	84	HIS	CA-C-N	6.67	128.17	119.84
1	bF	84	HIS	C-N-CA	6.67	128.17	119.84
1	bN	31	ALA	O-C-N	-6.67	114.28	122.55
1	c6	162	ARG	NE-CZ-NH2	6.67	125.20	119.20
1	c9	49	PRO	O-C-N	-6.67	113.64	122.64
1	cc	201	ILE	O-C-N	-6.67	115.08	121.94
1	1e	82	ARG	NE-CZ-NH2	6.67	125.20	119.20
1	cs	74	ASN	N-CA-C	6.67	118.20	111.07
1	cK	34	PRO	N-CA-C	6.67	122.51	113.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	89	GLY	N-CA-C	6.67	125.94	112.34
1	d8	200	THR	N-CA-C	6.67	119.40	111.33
1	db	149	SER	CA-CB-OG	6.67	124.44	111.10
1	dz	16	SER	CA-C-O	-6.67	113.16	120.69
1	dK	59	VAL	N-CA-C	6.67	117.42	110.62
1	f6	68	MET	N-CA-C	6.67	118.63	111.36
1	fD	176	GLN	O-C-N	-6.67	114.15	122.35
1	p	203	LYS	N-CA-C	6.67	120.67	112.54
1	9	23	TRP	CA-C-N	6.67	129.20	120.60
1	9	23	TRP	C-N-CA	6.67	129.20	120.60
1	gc	42	ALA	N-CA-C	6.67	119.39	111.33
1	gJ	5	ASN	OD1-CG-ND2	-6.67	115.94	122.60
1	hE	84	HIS	CB-CG-CD2	-6.67	122.54	131.20
1	hE	154	ARG	NE-CZ-NH1	6.67	128.16	121.50
1	ib	9	GLN	OE1-CD-NE2	-6.67	115.94	122.60
1	iz	86	VAL	CB-CA-C	6.67	120.81	110.28
1	iE	201	ILE	N-CA-C	6.67	116.82	110.42
1	iF	183	ASN	CA-CB-CG	6.67	119.27	112.60
1	j3	112	GLN	O-C-N	-6.67	115.06	122.12
1	jI	153	ILE	N-CA-C	6.67	118.22	110.62
1	jI	228	ALA	N-CA-CB	6.67	120.29	109.69
1	kB	193	ASN	CA-C-N	6.67	131.24	121.31
1	kB	193	ASN	C-N-CA	6.67	131.24	121.31
1	kP	184	TRP	N-CA-C	6.67	118.55	111.28
1	lo	150	ILE	N-CA-C	6.67	118.22	110.62
1	lE	165	VAL	N-CA-C	6.67	116.82	110.42
1	2t	10	MET	N-CA-C	6.67	119.16	110.43
1	2J	184	TRP	CG-CD2-CE3	-6.67	127.23	133.90
1	2X	219	GLN	N-CA-C	-6.67	105.15	113.55
1	3i	75	GLU	CA-C-N	6.67	129.75	120.29
1	3i	75	GLU	C-N-CA	6.67	129.75	120.29
1	3s	154	ARG	NE-CZ-NH2	-6.67	113.20	119.20
1	3G	1	PRO	N-CA-CB	6.67	110.33	103.00
1	49	226	HIS	CG-CD2-NE2	6.67	113.86	107.20
1	4P	28	GLU	O-C-N	-6.67	115.20	122.07
1	7k	130	TYR	N-CA-C	6.67	118.55	111.28
1	7D	163	ASP	CA-CB-CG	-6.67	105.94	112.60
1	7S	96	MET	O-C-N	-6.67	115.47	122.94
1	7U	177	ALA	CA-C-O	-6.67	113.94	121.81
1	8Y	95	GLN	O-C-N	-6.67	115.54	123.27
1	9i	37	ILE	N-CA-C	6.67	120.35	112.35
1	9k	192	GLN	N-CA-C	6.67	118.55	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aw	30	LYS	CA-C-O	6.67	126.47	119.14
1	aJ	139	ASN	N-CA-C	6.67	118.20	111.07
1	b3	33	SER	CA-C-N	6.67	128.17	119.84
1	b3	33	SER	C-N-CA	6.67	128.17	119.84
1	ck	146	SER	O-C-N	-6.67	112.58	121.64
1	cx	11	VAL	CA-C-N	6.67	130.22	120.82
1	cx	11	VAL	C-N-CA	6.67	130.22	120.82
1	cE	78	ALA	CA-C-N	6.67	129.21	120.28
1	cE	78	ALA	C-N-CA	6.67	129.21	120.28
1	cL	229	ARG	CA-C-N	6.67	133.97	121.97
1	cL	229	ARG	C-N-CA	6.67	133.97	121.97
1	cU	219	GLN	CA-C-N	6.67	131.64	121.51
1	cU	219	GLN	C-N-CA	6.67	131.64	121.51
1	cX	218	CYS	CA-C-N	6.67	129.21	120.28
1	cX	218	CYS	C-N-CA	6.67	129.21	120.28
1	dC	139	ASN	CA-CB-CG	-6.67	105.94	112.60
1	dN	87	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
1	ej	162	ARG	NE-CZ-NH1	-6.67	114.83	121.50
1	eU	26	VAL	N-CA-C	6.67	117.36	110.36
1	fY	65	ALA	N-CA-C	6.67	118.55	111.28
1	gn	100	ARG	NE-CZ-NH2	-6.66	113.20	119.20
1	hq	49	PRO	CA-C-N	6.66	129.21	120.28
1	hq	49	PRO	C-N-CA	6.66	129.21	120.28
1	hx	146	SER	O-C-N	-6.66	115.65	121.71
1	hN	7	GLN	CA-C-N	6.66	134.47	121.41
1	hN	7	GLN	C-N-CA	6.66	134.47	121.41
1	hO	164	TYR	CA-C-O	6.66	127.63	120.10
1	hT	218	CYS	CA-C-O	-6.66	113.64	122.44
1	in	57	ASN	O-C-N	-6.66	113.26	122.46
1	iH	12	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	j6	226	HIS	CG-CD2-NE2	6.66	113.86	107.20
1	j8	152	ASP	N-CA-C	-6.66	105.04	112.57
1	jd	51	ASP	CA-C-N	6.66	129.88	120.28
1	jd	51	ASP	C-N-CA	6.66	129.88	120.28
1	1X	1	PRO	CA-N-CD	-6.66	102.67	112.00
1	k0	12	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	kw	163	ASP	N-CA-C	6.66	119.37	111.71
1	la	138	LEU	N-CA-CB	6.66	119.92	110.12
1	lb	146	SER	O-C-N	-6.66	115.51	121.31
1	ln	211	LEU	N-CA-C	6.66	118.20	111.07
1	29	76	GLU	CA-C-N	6.66	129.21	120.28
1	29	76	GLU	C-N-CA	6.66	129.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	203	LYS	CA-C-O	-6.66	113.82	120.82
1	lJ	143	ARG	NH1-CZ-NH2	-6.66	110.64	119.30
1	lM	87	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	34	132	ARG	CA-C-N	6.66	129.21	120.28
1	34	132	ARG	C-N-CA	6.66	129.21	120.28
1	3v	211	LEU	N-CA-C	6.66	119.11	111.11
1	3C	119	THR	N-CA-C	-6.66	104.46	112.59
1	3D	75	GLU	N-CA-C	6.66	118.54	111.28
1	3F	161	PHE	CA-C-N	6.66	129.75	120.29
1	3F	161	PHE	C-N-CA	6.66	129.75	120.29
1	3P	164	TYR	CA-C-N	6.66	128.96	120.56
1	3P	164	TYR	C-N-CA	6.66	128.96	120.56
1	49	169	TYR	CA-C-N	6.66	129.21	120.28
1	49	169	TYR	C-N-CA	6.66	129.21	120.28
1	4J	161	PHE	CA-C-N	6.66	129.54	120.54
1	4J	161	PHE	C-N-CA	6.66	129.54	120.54
1	5m	37	ILE	O-C-N	-6.66	115.34	120.07
1	5o	26	VAL	O-C-N	-6.66	114.97	121.83
1	5H	168	PHE	CA-C-O	-6.66	114.00	121.00
1	63	154	ARG	N-CA-C	-6.66	99.21	109.14
1	7i	106	GLY	CA-C-N	6.66	129.21	120.28
1	7i	106	GLY	C-N-CA	6.66	129.21	120.28
1	7D	98	GLU	O-C-N	-6.66	114.98	121.18
1	7V	110	THR	N-CA-CB	6.66	119.77	110.17
1	7Z	66	MET	N-CA-C	6.66	118.54	111.28
1	8c	171	THR	CA-C-O	6.66	127.82	120.82
1	8J	5	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	9y	112	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	9z	125	PRO	N-CA-CB	6.66	107.59	102.73
1	9E	12	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	9K	131	LYS	O-C-N	-6.66	114.42	122.22
1	9Z	68	MET	CA-C-N	6.66	130.05	120.79
1	9Z	68	MET	C-N-CA	6.66	130.05	120.79
1	a3	11	VAL	O-C-N	-6.66	116.17	123.03
1	ag	217	ALA	CA-C-N	6.66	131.60	122.34
1	ag	217	ALA	C-N-CA	6.66	131.60	122.34
1	aL	9	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	c1	9	GLN	N-CA-CB	6.66	121.75	110.49
1	cw	203	LYS	N-CA-C	6.66	118.62	111.36
1	cF	106	GLY	CA-C-O	6.66	126.46	119.00
1	d2	135	ILE	N-CA-C	6.66	119.38	111.05
1	da	206	GLY	O-C-N	-6.66	115.11	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dz	24	VAL	N-CA-CB	6.66	119.60	110.54
1	dG	72	THR	CA-CB-OG1	-6.66	99.61	109.60
1	dX	213	GLU	N-CA-C	6.66	118.62	111.36
1	e5	105	ALA	CA-C-N	6.66	133.00	121.07
1	e5	105	ALA	C-N-CA	6.66	133.00	121.07
1	eE	92	GLU	CA-C-O	-6.66	113.56	120.02
1	eJ	147	PRO	N-CA-C	6.66	121.81	111.21
1	f1	84	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	f3	85	PRO	O-C-N	-6.66	115.97	123.03
1	fc	33	SER	CA-CB-OG	6.66	124.43	111.10
1	ff	51	ASP	CA-C-O	6.66	127.61	120.55
1	fr	228	ALA	N-CA-CB	-6.66	100.87	110.80
1	fP	161	PHE	CA-CB-CG	6.66	120.46	113.80
1	v	18	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	6	142	VAL	N-CA-C	6.66	116.82	110.42
1	hk	104	ILE	CB-CA-C	-6.66	101.83	112.16
1	hU	226	HIS	CA-CB-CG	6.66	120.46	113.80
1	in	62	HIS	ND1-CG-CD2	6.66	112.76	106.10
1	io	32	PHE	CA-C-O	6.66	127.65	120.32
1	iu	167	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	iv	15	ILE	O-C-N	-6.66	115.53	122.66
1	iQ	190	LEU	CA-C-O	-6.66	113.83	120.82
1	1S	32	PHE	CA-CB-CG	-6.66	107.14	113.80
1	jJ	226	HIS	CA-CB-CG	6.66	120.46	113.80
1	jO	159	GLU	N-CA-C	6.66	121.24	109.58
1	26	189	LEU	N-CA-C	6.66	118.54	111.28
1	lx	75	GLU	O-C-N	-6.66	115.21	122.07
1	2m	133	TRP	CA-C-O	6.66	127.48	120.42
1	2t	72	THR	CA-C-N	6.66	129.59	120.46
1	2t	72	THR	C-N-CA	6.66	129.59	120.46
1	4I	10	MET	O-C-N	-6.66	115.00	122.86
1	5m	100	ARG	NH1-CZ-NH2	-6.66	110.64	119.30
1	6G	52	LEU	O-C-N	-6.66	114.56	122.15
1	7m	166	ASP	CB-CA-C	6.66	121.47	110.81
1	7p	100	ARG	NE-CZ-NH2	-6.66	113.20	119.20
1	7J	144	MET	CA-C-O	6.66	127.61	120.55
1	8N	199	LYS	N-CA-C	6.66	118.54	111.28
1	9H	58	THR	CA-C-O	6.66	127.58	119.38
1	by	42	ALA	CA-C-N	6.66	129.53	120.54
1	by	42	ALA	C-N-CA	6.66	129.53	120.54
1	cb	230	VAL	N-CA-C	6.66	117.74	110.21
1	ce	87	HIS	CB-CG-CD2	6.66	139.86	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cB	43	LEU	CA-C-O	6.66	127.63	120.10
1	cN	74	ASN	N-CA-C	6.66	118.54	111.28
1	d3	189	LEU	N-CA-C	6.66	118.54	111.28
1	dg	159	GLU	CB-CA-C	6.66	120.17	109.51
1	dz	179	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	dM	51	ASP	CA-C-O	6.66	127.56	120.70
1	ez	179	GLN	N-CA-C	6.66	119.39	111.33
1	eV	72	THR	N-CA-C	6.66	119.37	111.71
1	fz	12	HIS	CB-CG-ND1	6.66	132.69	122.70
1	fC	12	HIS	CG-CD2-NE2	6.66	113.86	107.20
1	fF	144	MET	N-CA-C	6.66	118.33	111.14
1	fG	89	GLY	CA-C-N	6.66	128.17	119.84
1	fG	89	GLY	C-N-CA	6.66	128.17	119.84
1	l	137	GLY	CA-C-N	6.66	129.21	120.28
1	l	137	GLY	C-N-CA	6.66	129.21	120.28
1	ga	170	LYS	CA-C-N	6.66	129.21	120.28
1	ga	170	LYS	C-N-CA	6.66	129.21	120.28
1	gn	55	MET	N-CA-C	6.66	118.54	111.28
1	go	165	VAL	N-CA-C	6.66	117.42	110.62
1	gw	33	SER	O-C-N	-6.66	116.35	121.55
1	gD	53	ASN	CA-CB-CG	-6.66	105.94	112.60
1	h5	201	ILE	O-C-N	-6.66	114.97	121.90
1	h6	149	SER	N-CA-CB	6.66	121.75	110.49
1	hH	77	ALA	CA-C-O	6.66	128.03	120.90
1	hQ	119	THR	CA-C-O	6.66	127.14	119.35
1	hW	146	SER	CA-C-N	6.66	128.16	119.84
1	hW	146	SER	C-N-CA	6.66	128.16	119.84
1	i6	171	THR	CA-C-N	6.66	130.43	120.31
1	i6	171	THR	C-N-CA	6.66	130.43	120.31
1	i7	168	PHE	O-C-N	-6.66	115.06	122.12
1	ie	10	MET	CA-C-O	6.66	128.48	121.15
1	if	200	THR	CA-C-N	6.66	129.09	120.56
1	if	200	THR	C-N-CA	6.66	129.09	120.56
1	1P	16	SER	O-C-N	-6.66	115.65	121.31
1	ix	8	GLY	CA-C-N	6.66	133.64	121.85
1	ix	8	GLY	C-N-CA	6.66	133.64	121.85
1	j5	161	PHE	N-CA-C	6.66	118.62	111.36
1	j6	16	SER	N-CA-C	6.66	117.76	109.57
1	j9	159	GLU	CA-C-N	6.66	128.16	119.84
1	j9	159	GLU	C-N-CA	6.66	128.16	119.84
1	1V	139	ASN	O-C-N	6.66	129.02	122.09
1	jZ	124	ILE	N-CA-CB	6.66	120.26	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k5	65	ALA	N-CA-C	6.66	118.62	111.36
1	k6	32	PHE	N-CA-C	6.66	120.50	110.64
1	k8	117	TRP	O-C-N	-6.66	115.06	122.12
1	kv	9	GLN	O-C-N	-6.66	115.23	123.36
1	kT	57	ASN	CA-CB-CG	-6.66	105.94	112.60
1	l4	10	MET	CG-SD-CE	-6.66	86.25	100.90
1	l4	82	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	le	193	ASN	CA-CB-CG	-6.66	105.94	112.60
1	lL	137	GLY	CA-C-N	6.66	129.50	120.38
1	lL	137	GLY	C-N-CA	6.66	129.50	120.38
1	2e	205	LEU	N-CA-C	6.66	118.62	111.36
1	2w	89	GLY	CA-C-N	6.66	128.17	119.84
1	2w	89	GLY	C-N-CA	6.66	128.17	119.84
1	36	84	HIS	CA-C-N	6.66	126.62	119.76
1	36	84	HIS	C-N-CA	6.66	126.62	119.76
1	3N	78	ALA	CA-C-N	6.66	129.20	120.28
1	3N	78	ALA	C-N-CA	6.66	129.20	120.28
1	4d	162	ARG	N-CA-C	6.66	118.54	111.28
1	4e	59	VAL	N-CA-C	6.66	117.63	108.84
1	4x	167	ARG	N-CA-C	6.66	118.20	111.07
1	4B	67	GLN	CA-C-N	6.66	129.10	120.44
1	4B	67	GLN	C-N-CA	6.66	129.10	120.44
1	5q	87	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	5t	195	ASN	CA-C-N	6.66	126.91	119.32
1	5t	195	ASN	C-N-CA	6.66	126.91	119.32
1	5x	143	ARG	CA-C-N	6.66	129.10	120.44
1	5x	143	ARG	C-N-CA	6.66	129.10	120.44
1	5E	130	TYR	CA-C-N	6.66	129.10	120.44
1	5E	130	TYR	C-N-CA	6.66	129.10	120.44
1	5N	66	MET	N-CA-C	6.66	119.55	111.82
1	5Q	87	HIS	CA-C-N	6.66	130.94	121.42
1	5Q	87	HIS	C-N-CA	6.66	130.94	121.42
1	65	121	ASN	N-CA-CB	6.66	124.09	110.50
1	6o	146	SER	O-C-N	-6.66	114.99	121.18
1	6P	56	LEU	N-CA-C	-6.66	104.10	111.36
1	6U	136	LEU	CA-C-N	6.66	127.33	120.00
1	6U	136	LEU	C-N-CA	6.66	127.33	120.00
1	6Y	165	VAL	O-C-N	-6.66	114.97	121.83
1	7x	62	HIS	ND1-CG-CD2	6.66	112.76	106.10
1	7M	192	GLN	O-C-N	-6.66	115.21	122.07
1	7V	26	VAL	N-CA-C	6.66	116.81	110.42
1	81	34	PRO	CA-C-N	6.66	132.80	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	81	34	PRO	C-N-CA	6.66	132.80	121.14
1	8l	200	THR	CA-C-N	6.66	129.09	120.56
1	8l	200	THR	C-N-CA	6.66	129.09	120.56
1	8t	190	LEU	CA-C-N	6.66	129.59	120.46
1	8t	190	LEU	C-N-CA	6.66	129.59	120.46
1	9d	67	GLN	N-CA-C	6.66	118.20	111.07
1	9e	120	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	9n	63	GLN	CA-C-N	6.66	129.10	120.44
1	9n	63	GLN	C-N-CA	6.66	129.10	120.44
1	9t	114	GLN	OE1-CD-NE2	6.66	129.26	122.60
1	9G	199	LYS	CA-C-N	6.66	129.50	120.44
1	9G	199	LYS	C-N-CA	6.66	129.50	120.44
1	9L	10	MET	CG-SD-CE	-6.66	86.25	100.90
1	9O	212	GLU	N-CA-C	6.66	118.54	111.28
1	9R	84	HIS	N-CA-C	6.66	119.16	109.04
1	a4	229	ARG	NH1-CZ-NH2	6.66	127.96	119.30
1	ap	132	ARG	CA-C-N	6.66	129.21	120.28
1	ap	132	ARG	C-N-CA	6.66	129.21	120.28
1	aM	164	TYR	O-C-N	-6.66	115.06	122.12
1	aS	73	ILE	CA-C-N	6.66	129.10	120.44
1	aS	73	ILE	C-N-CA	6.66	129.10	120.44
1	b3	129	ILE	N-CA-C	6.66	117.16	110.23
1	bc	70	LYS	N-CA-C	6.66	119.39	111.33
1	17	37	ILE	CA-C-O	-6.66	111.02	119.95
1	bn	210	THR	CA-C-N	6.66	129.51	120.38
1	bn	210	THR	C-N-CA	6.66	129.51	120.38
1	c5	168	PHE	CA-CB-CG	6.66	120.46	113.80
1	cZ	6	LEU	N-CA-C	6.66	124.99	110.80
1	da	48	THR	CA-CB-OG1	6.66	119.59	109.60
1	1j	181	VAL	N-CA-CB	6.66	118.34	110.55
1	dr	182	LYS	O-C-N	-6.66	115.06	122.12
1	dI	185	MET	N-CA-C	6.66	119.10	111.11
1	dY	67	GLN	N-CA-C	6.66	118.20	111.07
1	e2	137	GLY	N-CA-C	6.66	120.95	112.83
1	1p	195	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	eD	68	MET	CG-SD-CE	-6.66	86.25	100.90
1	eH	57	ASN	N-CA-C	6.66	118.54	111.28
1	eK	23	TRP	CA-C-O	6.66	127.63	120.10
1	eS	139	ASN	N-CA-C	6.66	118.54	111.28
1	eS	170	LYS	N-CA-C	6.66	118.54	111.28
1	eZ	55	MET	CG-SD-CE	-6.66	86.25	100.90
1	1w	78	ALA	CA-C-N	6.66	129.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1w	78	ALA	C-N-CA	6.66	129.20	120.28
1	fq	18	ARG	CA-C-O	-6.66	111.93	119.79
1	1x	146	SER	N-CA-C	6.66	118.05	109.72
1	fM	149	SER	CB-CA-C	-6.66	98.66	109.72
1	fQ	56	LEU	N-CA-C	6.66	118.20	111.07
1	fT	195	ASN	O-C-N	-6.66	114.66	120.99
1	g5	40	PHE	O-C-N	-6.66	115.06	122.12
1	g	26	VAL	N-CA-C	6.66	116.81	110.42
1	l	139	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	N	179	GLN	N-CA-C	6.66	119.14	111.02
1	gC	168	PHE	O-C-N	-6.66	115.17	122.09
1	gD	27	VAL	N-CA-C	6.66	117.41	110.62
1	gM	115	ILE	CA-C-N	6.66	127.37	119.98
1	gM	115	ILE	C-N-CA	6.66	127.37	119.98
1	gS	82	ARG	N-CA-C	6.66	119.10	111.11
1	gT	189	LEU	N-CA-C	6.66	119.37	111.71
1	gV	40	PHE	CA-C-N	6.66	129.20	120.28
1	gV	40	PHE	C-N-CA	6.66	129.20	120.28
1	h1	63	GLN	CA-C-N	6.66	129.53	120.54
1	h1	63	GLN	C-N-CA	6.66	129.53	120.54
1	hk	230	VAL	N-CA-C	6.66	119.22	109.63
1	hP	209	ALA	N-CA-C	6.66	119.15	110.43
1	hS	64	ALA	N-CA-C	6.66	118.62	111.36
1	hY	181	VAL	N-CA-CB	6.66	118.34	110.55
1	ir	43	LEU	O-C-N	-6.66	114.08	122.27
1	iO	29	GLU	O-C-N	-6.66	113.57	122.23
1	jl	71	GLU	O-C-N	-6.66	115.21	122.07
1	jQ	132	ARG	NE-CZ-NH2	-6.66	113.21	119.20
1	jQ	225	GLY	CA-C-O	-6.66	113.66	120.45
1	jR	199	LYS	N-CA-C	6.66	119.10	111.11
1	k9	198	CYS	N-CA-C	6.66	118.54	111.28
1	ke	161	PHE	N-CA-C	6.66	118.20	111.07
1	ks	124	ILE	O-C-N	-6.66	113.51	121.10
1	22	209	ALA	CA-C-O	-6.66	114.15	121.87
1	lM	149	SER	CA-C-N	6.66	129.58	120.46
1	lM	149	SER	C-N-CA	6.66	129.58	120.46
1	lN	87	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	2Q	65	ALA	CA-C-N	6.66	129.20	120.28
1	2Q	65	ALA	C-N-CA	6.66	129.20	120.28
1	2T	178	SER	CA-C-N	6.66	129.20	120.28
1	2T	178	SER	C-N-CA	6.66	129.20	120.28
1	2W	82	ARG	O-C-N	-6.66	114.56	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	107	THR	N-CA-C	-6.66	105.16	113.55
1	3x	83	LEU	N-CA-C	6.66	118.19	111.07
1	3O	71	GLU	N-CA-C	6.66	119.37	111.71
1	40	173	ARG	NH1-CZ-NH2	-6.66	110.64	119.30
1	47	189	LEU	O-C-N	-6.66	115.06	122.12
1	48	167	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	4z	32	PHE	CA-CB-CG	-6.66	107.14	113.80
1	4A	183	ASN	CA-CB-CG	-6.66	105.94	112.60
1	4A	226	HIS	CB-CA-C	6.66	121.71	111.39
1	4C	128	GLU	CA-C-N	6.66	128.95	120.56
1	4C	128	GLU	C-N-CA	6.66	128.95	120.56
1	4E	110	THR	O-C-N	-6.66	115.00	122.86
1	59	189	LEU	N-CA-C	6.66	119.37	111.71
1	5k	183	ASN	CA-C-O	-6.66	113.83	120.82
1	5t	14	ALA	N-CA-C	6.66	118.90	110.24
1	5S	37	ILE	O-C-N	-6.66	113.51	121.10
1	6k	16	SER	CA-C-N	6.66	126.11	118.85
1	6k	16	SER	C-N-CA	6.66	126.11	118.85
1	6k	187	GLU	O-C-N	-6.66	115.21	122.07
1	6M	196	PRO	CA-C-N	6.66	129.10	120.44
1	6M	196	PRO	C-N-CA	6.66	129.10	120.44
1	6S	32	PHE	CA-CB-CG	-6.66	107.14	113.80
1	7b	113	GLU	O-C-N	-6.66	115.21	122.07
1	7d	96	MET	N-CA-C	6.66	118.33	111.14
1	7D	226	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	7M	136	LEU	CA-C-N	6.66	127.33	119.94
1	7M	136	LEU	C-N-CA	6.66	127.33	119.94
1	7N	206	GLY	CA-C-N	6.66	126.35	119.56
1	7N	206	GLY	C-N-CA	6.66	126.35	119.56
1	88	217	ALA	N-CA-C	6.66	119.41	110.35
1	88	226	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	8o	27	VAL	CA-CB-CG2	-6.66	99.08	110.40
1	8u	212	GLU	CA-C-N	6.66	129.44	120.65
1	8u	212	GLU	C-N-CA	6.66	129.44	120.65
1	8L	185	MET	N-CA-C	6.66	118.23	110.97
1	8M	69	LEU	O-C-N	-6.66	115.21	122.07
1	95	26	VAL	N-CA-C	6.66	116.81	110.42
1	96	32	PHE	N-CA-CB	6.66	119.75	110.56
1	9b	7	GLN	OE1-CD-NE2	6.66	129.26	122.60
1	9h	74	ASN	N-CA-C	6.66	118.54	111.28
1	9l	107	THR	O-C-N	-6.66	114.56	122.15
1	9C	29	GLU	N-CA-C	6.66	118.62	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9P	218	CYS	O-C-N	-6.66	114.59	122.58
1	9W	203	LYS	N-CA-CB	6.66	120.48	110.22
1	a4	18	ARG	NH1-CZ-NH2	-6.66	110.64	119.30
1	a4	70	LYS	N-CA-C	6.66	119.37	111.71
1	aq	174	ALA	CA-C-O	6.66	127.48	120.42
1	at	82	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	13	188	THR	CA-C-N	6.66	129.20	120.28
1	13	188	THR	C-N-CA	6.66	129.20	120.28
1	aQ	150	ILE	O-C-N	-6.66	114.25	122.57
1	b1	84	HIS	CA-C-N	6.66	127.70	119.98
1	b1	84	HIS	C-N-CA	6.66	127.70	119.98
1	b6	57	ASN	CB-CG-ND2	-6.66	106.41	116.40
1	bx	92	GLU	CA-C-N	6.66	128.16	119.84
1	bx	92	GLU	C-N-CA	6.66	128.16	119.84
1	bx	188	THR	CA-C-N	6.66	129.53	120.54
1	bx	188	THR	C-N-CA	6.66	129.53	120.54
1	bT	6	LEU	CA-C-N	6.66	132.22	122.63
1	bT	6	LEU	C-N-CA	6.66	132.22	122.63
1	c3	131	LYS	O-C-N	-6.66	115.06	122.12
1	cb	132	ARG	NE-CZ-NH1	6.66	128.16	121.50
1	ce	105	ALA	CA-C-O	6.66	127.62	120.10
1	cf	179	GLN	N-CA-C	6.66	119.10	111.11
1	cf	180	GLU	N-CA-C	6.66	119.10	111.11
1	cg	11	VAL	N-CA-C	6.66	117.62	109.30
1	cz	164	TYR	CB-CA-C	6.66	121.33	110.88
1	di	192	GLN	N-CA-C	6.66	118.20	111.07
1	dA	122	PRO	CA-C-N	6.66	126.62	120.03
1	dA	122	PRO	C-N-CA	6.66	126.62	120.03
1	dM	124	ILE	O-C-N	-6.66	116.27	121.46
1	e6	14	ALA	N-CA-C	6.66	119.89	110.23
1	1p	51	ASP	CA-C-N	6.66	129.74	120.29
1	1p	51	ASP	C-N-CA	6.66	129.74	120.29
1	ei	56	LEU	CA-C-N	6.66	130.43	120.31
1	ei	56	LEU	C-N-CA	6.66	130.43	120.31
1	ek	212	GLU	CB-CG-CD	-6.66	101.28	112.60
1	el	126	VAL	CA-C-N	6.66	127.20	119.94
1	el	126	VAL	C-N-CA	6.66	127.20	119.94
1	eO	95	GLN	CG-CD-OE1	6.66	134.12	120.80
1	eU	192	GLN	CB-CG-CD	6.66	123.92	112.60
1	fi	178	SER	CA-C-O	6.66	128.61	121.55
1	fm	21	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	g2	113	GLU	CA-C-N	6.66	129.10	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	113	GLU	C-N-CA	6.66	129.10	120.44
1	h	92	GLU	CA-C-N	6.66	126.68	119.89
1	h	92	GLU	C-N-CA	6.66	126.68	119.89
1	j	174	ALA	O-C-N	-6.66	115.06	122.12
1	o	107	THR	CA-C-O	6.66	127.81	120.82
1	A	130	TYR	CA-C-N	6.66	129.87	120.28
1	A	130	TYR	C-N-CA	6.66	129.87	120.28
1	I	95	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	O	62	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	gt	32	PHE	N-CA-C	-6.66	104.47	112.59
1	gO	135	ILE	CB-CA-C	6.66	121.41	112.22
1	gX	180	GLU	N-CA-CB	6.66	120.60	110.28
1	h9	181	VAL	CA-C-N	6.66	129.20	120.28
1	h9	181	VAL	C-N-CA	6.66	129.20	120.28
1	hA	182	LYS	N-CA-C	6.66	124.98	110.80
1	je	17	PRO	CA-C-N	6.66	129.74	120.29
1	je	17	PRO	C-N-CA	6.66	129.74	120.29
1	jq	211	LEU	N-CA-C	6.66	119.39	111.33
1	k1	48	THR	N-CA-CB	6.66	119.64	110.05
1	kp	193	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	kL	98	GLU	O-C-N	-6.66	114.62	121.28
1	kN	220	GLY	N-CA-C	6.66	124.40	112.22
1	lf	96	MET	CA-C-O	6.66	128.51	121.19
1	2Y	183	ASN	OD1-CG-ND2	-6.66	115.94	122.60
1	3D	179	GLN	OE1-CD-NE2	-6.66	115.94	122.60
1	4F	52	LEU	N-CA-C	6.66	118.19	111.07
1	4X	120	HIS	CA-CB-CG	-6.66	107.14	113.80
1	5l	113	GLU	N-CA-C	6.66	118.54	111.28
1	5Z	122	PRO	CA-C-N	6.66	126.69	119.90
1	5Z	122	PRO	C-N-CA	6.66	126.69	119.90
1	6m	227	LYS	CA-C-O	6.66	127.24	119.32
1	6r	165	VAL	CA-CB-CG1	6.66	121.72	110.40
1	7D	109	SER	CA-C-O	6.66	127.64	120.38
1	88	96	MET	CG-SD-CE	-6.66	86.25	100.90
1	8d	82	ARG	NE-CZ-NH2	-6.66	113.21	119.20
1	8v	169	TYR	CA-C-N	6.66	129.20	120.28
1	8v	169	TYR	C-N-CA	6.66	129.20	120.28
1	8S	166	ASP	N-CA-CB	-6.66	100.42	110.07
1	a3	173	ARG	CA-C-N	6.66	129.49	120.44
1	a3	173	ARG	C-N-CA	6.66	129.49	120.44
1	bF	69	LEU	CA-C-N	6.66	129.20	120.28
1	bF	69	LEU	C-N-CA	6.66	129.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bO	167	ARG	CA-C-N	6.66	129.09	120.44
1	bO	167	ARG	C-N-CA	6.66	129.09	120.44
1	c2	28	GLU	CA-C-N	6.66	129.09	120.44
1	c2	28	GLU	C-N-CA	6.66	129.09	120.44
1	cx	180	GLU	CA-C-O	6.66	127.48	120.42
1	cM	211	LEU	CA-C-N	6.66	129.20	120.28
1	cM	211	LEU	C-N-CA	6.66	129.20	120.28
1	d0	196	PRO	CA-C-N	6.66	130.43	120.31
1	d0	196	PRO	C-N-CA	6.66	130.43	120.31
1	1j	170	LYS	O-C-N	-6.66	115.06	122.12
1	dp	179	GLN	CA-C-O	6.66	127.61	120.55
1	dC	84	HIS	CA-C-N	6.66	128.16	119.84
1	dC	84	HIS	C-N-CA	6.66	128.16	119.84
1	dH	13	GLN	CB-CG-CD	6.66	123.92	112.60
1	e9	126	VAL	O-C-N	-6.66	115.41	121.87
1	ef	89	GLY	CA-C-N	6.66	126.69	119.90
1	ef	89	GLY	C-N-CA	6.66	126.69	119.90
1	ep	11	VAL	O-C-N	-6.66	115.88	123.00
1	eq	214	MET	O-C-N	-6.66	115.21	122.07
1	f7	81	ASP	CA-CB-CG	-6.66	105.94	112.60
1	fl	13	GLN	CA-C-O	-6.66	112.93	120.32
1	K	144	MET	N-CA-C	6.66	118.54	111.28
1	gU	36	VAL	N-CA-C	6.66	118.21	110.62
1	h0	33	SER	CA-CB-OG	6.66	124.41	111.10
1	if	120	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	im	183	ASN	CB-CA-C	-6.66	100.43	110.88
1	iM	100	ARG	CA-C-O	-6.66	113.96	121.81
1	iM	161	PHE	O-C-N	-6.66	115.06	122.12
1	jh	144	MET	N-CA-C	6.66	119.38	111.33
1	jl	100	ARG	CA-C-N	6.66	128.52	120.13
1	jl	100	ARG	C-N-CA	6.66	128.52	120.13
1	jB	23	TRP	N-CA-CB	-6.66	100.42	110.07
1	jH	154	ARG	N-CA-C	6.66	119.19	109.07
1	jJ	15	ILE	O-C-N	-6.66	116.33	122.79
1	jV	223	GLY	O-C-N	-6.66	115.11	121.77
1	jY	227	LYS	N-CA-C	6.66	119.67	110.35
1	k3	80	TRP	CA-C-O	-6.66	112.58	120.10
1	kc	144	MET	N-CA-CB	-6.66	100.31	110.16
1	kf	12	HIS	CG-CD2-NE2	6.66	113.86	107.20
1	kh	154	ARG	O-C-N	-6.66	116.30	123.42
1	ks	120	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	l1	165	VAL	CA-C-N	6.66	129.09	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l1	165	VAL	C-N-CA	6.66	129.09	120.44
1	l6	162	ARG	NE-CZ-NH2	-6.66	113.21	119.20
1	lb	165	VAL	CA-CB-CG1	6.66	121.71	110.40
1	lB	85	PRO	CA-C-N	6.66	132.30	123.11
1	lB	85	PRO	C-N-CA	6.66	132.30	123.11
1	2o	112	GLN	N-CA-C	6.66	118.53	111.28
1	2B	106	GLY	CA-C-O	6.66	126.52	119.06
1	34	22	ALA	CA-C-O	-6.66	113.50	120.55
1	3o	190	LEU	CA-C-N	6.66	131.22	120.30
1	3o	190	LEU	C-N-CA	6.66	131.22	120.30
1	3x	204	ALA	N-CA-C	6.66	118.53	111.28
1	3S	37	ILE	CA-CB-CG2	-6.66	99.19	110.50
1	3U	195	ASN	CA-CB-CG	-6.66	105.94	112.60
1	41	67	GLN	N-CA-C	6.66	118.53	111.28
1	4i	24	VAL	CA-CB-CG1	6.66	121.71	110.40
1	4j	114	GLN	N-CA-C	6.66	118.19	111.07
1	4H	138	LEU	CA-C-N	6.66	129.53	120.54
1	4H	138	LEU	C-N-CA	6.66	129.53	120.54
1	4M	72	THR	O-C-N	-6.66	115.22	122.07
1	4Z	99	PRO	O-C-N	-6.66	115.11	123.10
1	5w	141	ILE	N-CA-C	6.66	117.41	110.62
1	5X	146	SER	CA-C-N	6.66	126.11	118.85
1	5X	146	SER	C-N-CA	6.66	126.11	118.85
1	61	136	LEU	O-C-N	-6.66	115.21	122.07
1	62	84	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
1	65	87	HIS	ND1-CE1-NE2	6.66	115.06	108.40
1	6y	60	GLY	CA-C-N	6.66	130.12	121.13
1	6y	60	GLY	C-N-CA	6.66	130.12	121.13
1	6V	62	HIS	CB-CA-C	-6.66	102.44	111.89
1	8Y	99	PRO	N-CA-C	6.66	121.28	111.03
1	9W	132	ARG	NE-CZ-NH2	-6.66	113.21	119.20
1	a5	84	HIS	O-C-N	-6.66	115.42	121.34
1	aI	6	LEU	CA-C-O	6.66	130.03	120.51
1	aL	105	ALA	O-C-N	-6.66	113.85	122.37
1	aQ	129	ILE	CA-C-O	6.66	128.44	121.05
1	b7	14	ALA	CA-C-O	6.66	128.51	121.19
1	bI	19	THR	N-CA-CB	6.66	120.01	110.16
1	c9	126	VAL	N-CA-C	6.66	118.21	110.62
1	cb	27	VAL	N-CA-C	6.66	117.44	110.72
1	dL	33	SER	N-CA-C	-6.66	95.10	109.81
1	e2	185	MET	O-C-N	-6.66	115.22	122.07
1	eX	57	ASN	OD1-CG-ND2	-6.66	115.94	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fk	13	GLN	CG-CD-NE2	6.66	126.38	116.40
1	fr	163	ASP	CA-C-N	6.66	129.20	120.28
1	fr	163	ASP	C-N-CA	6.66	129.20	120.28
1	fy	137	GLY	O-C-N	-6.66	115.79	122.18
1	f	114	GLN	CA-C-N	6.66	128.94	120.56
1	f	114	GLN	C-N-CA	6.66	128.94	120.56
1	J	212	GLU	N-CA-C	6.66	118.53	111.28
1	gW	198	CYS	CA-C-O	6.65	127.60	120.55
1	gY	69	LEU	CA-C-O	6.65	127.55	120.70
1	hA	74	ASN	CA-CB-CG	-6.65	105.95	112.60
1	ig	183	ASN	N-CA-C	6.65	118.19	111.07
1	1P	18	ARG	N-CA-CB	6.65	119.90	110.12
1	1Z	6	LEU	CA-C-O	6.65	127.63	120.24
1	2C	210	THR	N-CA-CB	6.65	119.82	110.04
1	3a	165	VAL	CA-C-N	6.65	129.09	120.44
1	3a	165	VAL	C-N-CA	6.65	129.09	120.44
1	4c	184	TRP	CE2-CD2-CE3	6.65	125.45	118.80
1	6q	114	GLN	N-CA-C	6.65	118.53	111.28
1	6O	141	ILE	CA-C-O	6.65	128.19	121.27
1	7Q	129	ILE	N-CA-C	6.65	116.81	110.42
1	a0	114	GLN	N-CA-C	6.65	118.19	111.07
1	a8	190	LEU	CA-C-O	6.65	127.56	119.31
1	ad	143	ARG	CA-C-N	6.65	129.74	120.29
1	ad	143	ARG	C-N-CA	6.65	129.74	120.29
1	ao	162	ARG	CA-C-N	6.65	129.20	120.28
1	ao	162	ARG	C-N-CA	6.65	129.20	120.28
1	aA	142	VAL	O-C-N	-6.65	115.39	121.91
1	b6	52	LEU	N-CA-C	6.65	118.19	111.07
1	b9	183	ASN	CA-CB-CG	-6.65	105.95	112.60
1	cX	12	HIS	CG-CD2-NE2	6.65	113.85	107.20
1	d4	146	SER	N-CA-C	6.65	117.25	109.60
1	dP	4	GLN	CA-C-N	6.65	129.74	120.29
1	dP	4	GLN	C-N-CA	6.65	129.74	120.29
1	eC	80	TRP	O-C-N	-6.65	115.17	122.09
1	eG	160	PRO	N-CA-CB	-6.65	96.26	103.25
1	f1	92	GLU	O-C-N	-6.65	114.46	120.71
1	g3	73	ILE	N-CA-C	6.65	116.81	110.42
1	k	136	LEU	CA-C-O	-6.65	113.50	120.55
1	v	104	ILE	N-CA-C	6.65	117.41	110.62
1	gs	10	MET	CG-SD-CE	-6.65	86.26	100.90
1	gS	194	ALA	CA-C-O	-6.65	114.55	121.87
1	h3	182	LYS	CA-C-N	6.65	129.52	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	182	LYS	C-N-CA	6.65	129.52	120.54
1	hm	170	LYS	N-CA-CB	6.65	119.85	109.94
1	hO	129	ILE	N-CA-C	6.65	116.81	110.42
1	hY	136	LEU	CA-C-N	6.65	127.32	119.94
1	hY	136	LEU	C-N-CA	6.65	127.32	119.94
1	ia	62	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	1P	165	VAL	N-CA-C	6.65	117.41	110.62
1	ip	126	VAL	N-CA-C	6.65	117.41	110.62
1	iM	220	GLY	O-C-N	6.65	130.23	122.45
1	jB	213	GLU	CA-C-N	6.65	129.19	120.28
1	jB	213	GLU	C-N-CA	6.65	129.19	120.28
1	1X	88	ALA	O-C-N	-6.65	115.08	123.06
1	k7	166	ASP	O-C-N	-6.65	115.22	122.07
1	k8	67	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	ko	84	HIS	CA-C-O	-6.65	113.43	121.15
1	kL	71	GLU	O-C-N	-6.65	115.07	122.12
1	l5	109	SER	CA-C-O	6.65	128.72	120.54
1	lm	222	GLY	CA-C-N	6.65	132.31	121.87
1	lm	222	GLY	C-N-CA	6.65	132.31	121.87
1	2C	39	MET	N-CA-C	6.65	118.53	111.28
1	2Q	184	TRP	CA-C-N	6.65	129.49	120.38
1	2Q	184	TRP	C-N-CA	6.65	129.49	120.38
1	2Y	175	GLU	O-C-N	-6.65	114.63	122.81
1	3o	170	LYS	CA-C-N	6.65	129.09	120.44
1	3o	170	LYS	C-N-CA	6.65	129.09	120.44
1	3q	200	THR	CA-C-N	6.65	129.57	120.46
1	3q	200	THR	C-N-CA	6.65	129.57	120.46
1	3N	41	SER	O-C-N	-6.65	115.07	122.12
1	4m	144	MET	O-C-N	-6.65	115.07	122.12
1	4s	173	ARG	N-CA-C	6.65	118.53	111.28
1	4K	124	ILE	CB-CA-C	6.65	117.83	110.71
1	4W	159	GLU	N-CA-C	6.65	117.75	109.57
1	5v	189	LEU	CA-C-O	-6.65	113.47	120.92
1	5x	143	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	5V	119	THR	CA-CB-OG1	6.65	119.58	109.60
1	69	81	ASP	CA-C-N	6.65	129.19	120.28
1	69	81	ASP	C-N-CA	6.65	129.19	120.28
1	6i	163	ASP	CA-C-N	6.65	129.19	120.28
1	6i	163	ASP	C-N-CA	6.65	129.19	120.28
1	6n	101	GLY	O-C-N	-6.65	115.55	122.13
1	6S	41	SER	N-CA-C	6.65	118.53	111.28
1	7i	133	TRP	N-CA-C	6.65	118.53	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	172	LEU	O-C-N	-6.65	115.07	122.12
1	7N	189	LEU	O-C-N	-6.65	115.07	122.12
1	7Y	111	LEU	N-CA-CB	6.65	119.90	110.12
1	97	50	GLN	O-C-N	-6.65	115.07	122.12
1	9p	124	ILE	CB-CA-C	-6.65	103.13	110.78
1	9q	88	ALA	N-CA-C	6.65	119.62	110.24
1	9t	223	GLY	CA-C-N	6.65	127.05	119.93
1	9t	223	GLY	C-N-CA	6.65	127.05	119.93
1	9B	20	LEU	CB-CA-C	-6.65	100.44	110.88
1	a1	5	ASN	CA-CB-CG	-6.65	105.95	112.60
1	a8	184	TRP	N-CA-CB	6.65	119.66	110.01
1	ad	58	THR	N-CA-C	6.65	118.19	111.07
1	14	77	ALA	N-CA-C	6.65	118.19	111.07
1	bb	25	LYS	CA-C-N	6.65	129.49	120.77
1	bb	25	LYS	C-N-CA	6.65	129.49	120.77
1	bq	58	THR	CA-C-N	6.65	129.18	120.60
1	bq	58	THR	C-N-CA	6.65	129.18	120.60
1	bA	76	GLU	N-CA-C	6.65	118.61	111.36
1	bK	124	ILE	CB-CA-C	6.65	118.43	110.78
1	c8	215	MET	CG-SD-CE	-6.65	86.27	100.90
1	cA	122	PRO	CA-C-N	6.65	126.69	119.90
1	cA	122	PRO	C-N-CA	6.65	126.69	119.90
1	cS	20	LEU	O-C-N	-6.65	114.57	122.15
1	cW	150	ILE	N-CA-C	6.65	117.44	110.72
1	cX	62	HIS	N-CA-C	6.65	120.35	111.30
1	d9	75	GLU	N-CA-C	6.65	118.61	111.36
1	dr	163	ASP	CA-CB-CG	-6.65	105.95	112.60
1	dC	48	THR	CA-C-N	6.65	128.15	119.84
1	dC	48	THR	C-N-CA	6.65	128.15	119.84
1	eu	116	GLY	O-C-N	-6.65	115.74	122.19
1	eL	223	GLY	O-C-N	-6.65	116.43	122.42
1	eU	140	LYS	N-CA-C	6.65	118.19	111.07
1	f3	139	ASN	OD1-CG-ND2	-6.65	115.95	122.60
1	fd	195	ASN	O-C-N	-6.65	115.92	121.38
1	fx	37	ILE	CA-C-N	6.65	126.10	118.85
1	fx	37	ILE	C-N-CA	6.65	126.10	118.85
1	fB	16	SER	O-C-N	-6.65	113.98	121.43
1	fM	56	LEU	O-C-N	-6.65	114.57	122.15
1	g7	229	ARG	NH1-CZ-NH2	-6.65	110.65	119.30
1	p	62	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	v	189	LEU	O-C-N	-6.65	114.11	121.76
1	y	5	ASN	CA-C-O	-6.65	111.26	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	184	TRP	O-C-N	-6.65	115.07	122.12
1	gR	123	PRO	N-CA-C	6.65	126.17	112.47
1	h1	225	GLY	CA-C-N	-6.65	113.92	122.77
1	h1	225	GLY	C-N-CA	-6.65	113.92	122.77
1	hc	5	ASN	CA-CB-CG	6.65	119.25	112.60
1	hh	11	VAL	N-CA-C	6.65	117.44	107.80
1	1M	87	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	hX	67	GLN	CA-CB-CG	6.65	127.40	114.10
1	ij	38	PRO	CA-C-N	6.65	129.43	120.65
1	ij	38	PRO	C-N-CA	6.65	129.43	120.65
1	iw	84	HIS	CA-C-N	6.65	126.63	119.78
1	iw	84	HIS	C-N-CA	6.65	126.63	119.78
1	iL	113	GLU	CA-C-N	6.65	129.49	120.44
1	iL	113	GLU	C-N-CA	6.65	129.49	120.44
1	j6	166	ASP	CA-CB-CG	6.65	119.25	112.60
1	j7	126	VAL	CA-CB-CG1	-6.65	99.09	110.40
1	jb	32	PHE	CA-CB-CG	-6.65	107.15	113.80
1	jk	84	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	jy	201	ILE	O-C-N	-6.65	114.98	121.83
1	jU	217	ALA	N-CA-C	6.65	119.14	110.43
1	kC	51	ASP	N-CA-C	6.65	118.19	111.07
1	la	152	ASP	CA-C-N	6.65	130.95	122.37
1	la	152	ASP	C-N-CA	6.65	130.95	122.37
1	lm	89	GLY	CA-C-N	6.65	126.68	119.90
1	lm	89	GLY	C-N-CA	6.65	126.68	119.90
1	lw	118	MET	N-CA-C	6.65	119.36	111.71
1	lH	133	TRP	CA-C-N	6.65	128.94	120.56
1	lH	133	TRP	C-N-CA	6.65	128.94	120.56
1	2b	161	PHE	CA-C-N	6.65	129.09	120.44
1	2b	161	PHE	C-N-CA	6.65	129.09	120.44
1	2o	73	ILE	CA-C-N	6.65	129.19	120.28
1	2o	73	ILE	C-N-CA	6.65	129.19	120.28
1	2N	62	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	2O	96	MET	N-CA-C	-6.65	96.22	107.99
1	2Y	42	ALA	O-C-N	-6.65	114.91	122.09
1	3i	206	GLY	O-C-N	-6.65	115.12	121.77
1	3l	220	GLY	N-CA-C	-6.65	105.33	114.64
1	3r	21	ASN	CA-C-N	6.65	129.09	120.44
1	3r	21	ASN	C-N-CA	6.65	129.09	120.44
1	3w	37	ILE	N-CA-CB	6.65	114.98	110.52
1	49	86	VAL	CA-CB-CG1	6.65	121.71	110.40
1	4d	186	THR	N-CA-C	6.65	118.53	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4h	54	THR	N-CA-C	6.65	118.53	111.28
1	4q	202	LEU	CA-C-N	6.65	129.73	120.29
1	4q	202	LEU	C-N-CA	6.65	129.73	120.29
1	4z	192	GLN	N-CA-C	6.65	118.53	111.28
1	4I	12	HIS	N-CA-CB	6.65	119.75	109.97
1	55	105	ALA	N-CA-CB	-6.65	100.65	110.49
1	5M	191	VAL	N-CA-C	6.65	117.44	110.72
1	5Y	129	ILE	CB-CA-C	-6.65	103.16	112.14
1	6n	18	ARG	N-CA-C	6.65	118.53	111.28
1	6H	126	VAL	O-C-N	-6.65	115.42	121.87
1	6T	198	CYS	O-C-N	-6.65	114.57	122.15
1	7l	41	SER	N-CA-CB	6.65	119.90	110.12
1	7B	62	HIS	ND1-CG-CD2	6.65	112.75	106.10
1	7S	125	PRO	N-CA-CB	6.65	106.91	102.25
1	8b	154	ARG	CA-C-O	6.65	127.54	120.36
1	8o	92	GLU	CA-C-N	6.65	128.15	119.84
1	8o	92	GLU	C-N-CA	6.65	128.15	119.84
1	8A	82	ARG	N-CA-C	6.65	118.32	111.14
1	8U	42	ALA	N-CA-C	6.65	118.53	111.28
1	8V	48	THR	CA-C-O	-6.65	113.45	120.70
1	9b	123	PRO	O-C-N	-6.65	115.36	123.01
1	9I	180	GLU	CA-C-N	6.65	129.07	120.56
1	9I	180	GLU	C-N-CA	6.65	129.07	120.56
1	ap	77	ALA	CA-C-O	6.65	127.60	120.55
1	aw	47	ALA	CA-C-O	-6.65	113.16	120.81
1	b3	189	LEU	CA-C-N	6.65	129.86	120.28
1	b3	189	LEU	C-N-CA	6.65	129.86	120.28
1	bh	84	HIS	CB-CA-C	-6.65	102.79	110.17
1	18	226	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	bu	72	THR	CA-CB-OG1	6.65	119.58	109.60
1	bv	41	SER	CA-C-N	6.65	129.19	120.28
1	bv	41	SER	C-N-CA	6.65	129.19	120.28
1	bI	205	LEU	CA-C-N	6.65	132.31	121.87
1	bI	205	LEU	C-N-CA	6.65	132.31	121.87
1	ca	167	ARG	O-C-N	-6.65	115.22	122.07
1	1f	195	ASN	OD1-CG-ND2	-6.65	115.95	122.60
1	cD	33	SER	O-C-N	-6.65	113.98	121.43
1	cJ	75	GLU	N-CA-C	6.65	118.53	111.28
1	1g	148	THR	N-CA-C	6.65	119.87	110.23
1	cP	64	ALA	O-C-N	-6.65	114.91	122.09
1	cR	18	ARG	CA-C-N	6.65	130.42	120.31
1	cR	18	ARG	C-N-CA	6.65	130.42	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cR	65	ALA	N-CA-C	6.65	118.61	111.36
1	dj	220	GLY	CA-C-N	6.65	132.15	123.11
1	dj	220	GLY	C-N-CA	6.65	132.15	123.11
1	e7	39	MET	N-CA-C	6.65	118.53	111.28
1	e9	48	THR	CA-C-O	-6.65	113.78	120.63
1	ev	166	ASP	O-C-N	-6.65	113.75	122.59
1	eO	95	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	eY	204	ALA	CA-C-O	6.65	128.62	120.31
1	1v	218	CYS	N-CA-CB	6.65	121.73	110.49
1	fq	124	ILE	N-CA-C	-6.65	100.48	107.60
1	fU	28	GLU	N-CA-C	6.65	118.19	111.07
1	a	165	VAL	N-CA-C	6.65	117.40	110.62
1	b	208	ALA	N-CA-C	6.65	120.83	111.92
1	s	223	GLY	O-C-N	-6.65	115.12	121.77
1	y	25	LYS	N-CA-C	6.65	118.53	111.28
1	I	24	VAL	O-C-N	-6.65	114.28	121.80
1	L	146	SER	CA-C-O	-6.65	114.34	119.46
1	8	109	SER	O-C-N	-6.65	114.58	123.23
1	g8	95	GLN	O-C-N	-6.65	114.69	122.87
1	g8	114	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	hi	138	LEU	CA-C-N	6.65	129.19	120.28
1	hi	138	LEU	C-N-CA	6.65	129.19	120.28
1	hy	28	GLU	CA-C-N	6.65	129.73	120.29
1	hy	28	GLU	C-N-CA	6.65	129.73	120.29
1	hC	117	TRP	N-CA-C	6.65	118.53	111.28
1	hD	41	SER	CA-C-N	6.65	129.19	120.28
1	hD	41	SER	C-N-CA	6.65	129.19	120.28
1	hT	226	HIS	CB-CG-ND1	6.65	132.67	122.70
1	i4	223	GLY	CA-C-N	6.65	128.15	119.84
1	i4	223	GLY	C-N-CA	6.65	128.15	119.84
1	jM	135	ILE	O-C-N	-6.65	114.98	121.83
1	jR	63	GLN	OE1-CD-NE2	-6.65	115.95	122.60
1	jX	191	VAL	O-C-N	-6.65	115.42	121.87
1	kw	164	TYR	CB-CA-C	6.65	121.32	110.88
1	24	62	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	kY	170	LYS	CA-C-N	6.65	129.73	120.29
1	kY	170	LYS	C-N-CA	6.65	129.73	120.29
1	l4	162	ARG	CD-NE-CZ	6.65	133.71	124.40
1	lg	7	GLN	N-CA-CB	6.65	122.90	112.46
1	lH	175	GLU	N-CA-C	6.65	118.59	110.41
1	2E	43	LEU	CA-C-O	6.65	127.62	119.97
1	49	73	ILE	CA-C-N	6.65	129.48	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	49	73	ILE	C-N-CA	6.65	129.48	120.44
1	4T	169	TYR	N-CA-C	6.65	118.18	111.07
1	5z	84	HIS	CA-C-O	-6.65	113.57	120.09
1	5J	67	GLN	CB-CG-CD	6.65	123.90	112.60
1	6f	41	SER	N-CA-CB	6.65	119.89	110.12
1	6Q	159	GLU	N-CA-C	6.65	120.37	108.47
1	7X	117	TRP	CE3-CZ3-CH2	6.65	129.74	121.10
1	8x	169	TYR	CA-C-N	6.65	130.79	120.82
1	8x	169	TYR	C-N-CA	6.65	130.79	120.82
1	95	18	ARG	N-CA-C	6.65	118.53	111.28
1	9a	126	VAL	CA-C-N	6.65	128.66	120.22
1	9a	126	VAL	C-N-CA	6.65	128.66	120.22
1	a1	25	LYS	N-CA-C	6.65	118.61	111.36
1	aM	176	GLN	O-C-N	-6.65	114.68	122.86
1	c6	18	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
1	cg	167	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	co	12	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	cx	229	ARG	O-C-N	-6.65	115.45	123.16
1	do	66	MET	N-CA-C	6.65	118.19	111.07
1	du	5	ASN	OD1-CG-ND2	-6.65	115.95	122.60
1	eZ	56	LEU	CB-CA-C	-6.65	99.75	110.79
1	fs	143	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	fK	154	ARG	NE-CZ-NH2	-6.65	113.22	119.20
1	fQ	143	ARG	NE-CZ-NH2	6.65	125.19	119.20
1	2	82	ARG	N-CA-C	6.65	118.19	111.07
1	A	60	GLY	CA-C-N	6.65	126.42	120.10
1	A	60	GLY	C-N-CA	6.65	126.42	120.10
1	g8	170	LYS	CA-C-N	6.65	129.08	120.44
1	g8	170	LYS	C-N-CA	6.65	129.08	120.44
1	gh	145	TYR	O-C-N	-6.65	114.03	122.34
1	1C	62	HIS	CB-CG-ND1	-6.65	112.73	122.70
1	gF	228	ALA	N-CA-C	6.65	119.39	110.35
1	gQ	37	ILE	CA-C-N	6.65	126.24	119.19
1	gQ	37	ILE	C-N-CA	6.65	126.24	119.19
1	ht	86	VAL	N-CA-C	6.65	117.91	108.93
1	hH	154	ARG	CA-C-N	6.65	130.31	120.87
1	hH	154	ARG	C-N-CA	6.65	130.31	120.87
1	hJ	178	SER	N-CA-C	6.65	119.39	110.35
1	i0	73	ILE	CA-C-N	6.65	129.08	120.44
1	i0	73	ILE	C-N-CA	6.65	129.08	120.44
1	i0	159	GLU	CA-C-N	6.65	128.15	119.84
1	i0	159	GLU	C-N-CA	6.65	128.15	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	195	ASN	O-C-N	-6.65	115.93	121.38
1	iW	62	HIS	N-CA-C	6.65	120.83	111.52
1	jn	4	GLN	N-CA-C	6.65	120.56	111.39
1	kd	16	SER	N-CA-CB	6.65	118.94	110.23
1	21	178	SER	N-CA-C	6.65	118.88	110.24
1	kz	54	THR	CA-C-O	-6.65	113.50	120.55
1	23	108	THR	CA-C-O	6.65	127.32	119.48
1	kE	117	TRP	N-CA-C	6.65	118.53	111.28
1	25	108	THR	CA-CB-OG1	6.65	119.57	109.60
1	kY	156	GLY	CA-C-N	6.65	126.10	118.85
1	kY	156	GLY	C-N-CA	6.65	126.10	118.85
1	l0	84	HIS	CA-CB-CG	6.65	120.45	113.80
1	li	151	LEU	N-CA-C	6.65	119.36	111.71
1	2a	156	GLY	CA-C-N	6.65	126.24	119.19
1	2a	156	GLY	C-N-CA	6.65	126.24	119.19
1	lO	80	TRP	N-CA-C	6.65	118.22	110.97
1	2J	131	LYS	O-C-N	-6.65	115.07	122.12
1	3t	216	THR	N-CA-C	-6.65	105.14	113.18
1	43	78	ALA	CA-C-O	6.65	127.47	120.42
1	4d	85	PRO	O-C-N	-6.65	114.55	122.99
1	4n	132	ARG	N-CA-C	6.65	120.65	112.54
1	4B	159	GLU	CA-C-N	6.65	127.03	119.92
1	4B	159	GLU	C-N-CA	6.65	127.03	119.92
1	4M	154	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
1	5L	65	ALA	CA-C-O	6.65	127.47	120.42
1	5L	76	GLU	CA-C-O	-6.65	113.84	120.82
1	5S	97	ARG	N-CA-C	6.65	120.12	110.28
1	6m	79	GLU	O-C-N	-6.65	115.22	122.07
1	6r	42	ALA	N-CA-C	6.65	119.09	111.11
1	6G	87	HIS	N-CA-C	6.65	119.87	110.23
1	6R	144	MET	O-C-N	-6.65	113.28	122.46
1	6X	205	LEU	CA-C-N	6.65	132.31	121.87
1	6X	205	LEU	C-N-CA	6.65	132.31	121.87
1	77	23	TRP	CB-CG-CD2	6.65	136.11	126.80
1	7a	56	LEU	O-C-N	6.65	129.17	122.12
1	7q	178	SER	N-CA-CB	6.65	120.53	110.42
1	7M	7	GLN	CA-C-N	6.65	131.69	121.45
1	7M	7	GLN	C-N-CA	6.65	131.69	121.45
1	88	226	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	8a	67	GLN	CA-C-O	6.65	128.01	120.90
1	8k	76	GLU	N-CA-C	6.65	118.18	111.07
1	8r	18	ARG	CA-C-O	6.65	127.60	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	216	THR	CA-CB-OG1	6.65	119.57	109.60
1	8I	37	ILE	N-CA-C	6.65	123.24	108.88
1	8L	100	ARG	N-CA-CB	6.65	119.95	110.44
1	8Q	150	ILE	CA-C-O	-6.65	113.46	120.57
1	9m	67	GLN	N-CA-C	6.65	118.53	111.28
1	9O	166	ASP	CA-CB-CG	6.65	119.25	112.60
1	a3	208	ALA	N-CA-CB	-6.65	100.23	111.27
1	a4	176	GLN	N-CA-C	6.65	121.24	113.20
1	ag	57	ASN	CA-CB-CG	6.65	119.25	112.60
1	aM	62	HIS	ND1-CE1-NE2	6.65	115.05	108.40
1	aV	81	ASP	N-CA-C	6.65	118.61	111.36
1	ba	84	HIS	CA-CB-CG	-6.65	107.15	113.80
1	cl	62	HIS	CB-CG-ND1	-6.65	112.73	122.70
1	cz	79	GLU	N-CA-C	6.65	118.53	111.28
1	cJ	194	ALA	N-CA-C	6.65	118.88	110.24
1	dB	201	ILE	CA-C-N	6.65	130.41	120.31
1	dB	201	ILE	C-N-CA	6.65	130.41	120.31
1	dH	12	HIS	N-CA-C	6.65	119.87	110.23
1	dL	229	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
1	e4	189	LEU	N-CA-C	6.65	118.18	111.07
1	ef	84	HIS	CA-C-N	6.65	126.68	119.90
1	ef	84	HIS	C-N-CA	6.65	126.68	119.90
1	ei	62	HIS	ND1-CG-CD2	6.65	112.75	106.10
1	eG	26	VAL	N-CA-C	6.65	117.43	110.72
1	eN	116	GLY	O-C-N	-6.65	115.03	122.28
1	f5	49	PRO	N-CA-C	6.65	126.16	112.47
1	f5	154	ARG	O-C-N	-6.65	115.13	123.17
1	fl	70	LYS	N-CA-C	6.65	118.53	111.28
1	fm	3	VAL	CB-CA-C	-6.65	100.39	111.29
1	fo	104	ILE	O-C-N	6.65	128.43	121.91
1	fr	229	ARG	NE-CZ-NH2	6.65	125.18	119.20
1	fx	56	LEU	N-CA-C	6.65	119.38	111.33
1	fC	107	THR	CA-C-O	6.65	127.82	119.78
1	fF	168	PHE	N-CA-C	6.65	119.09	111.11
1	S	117	TRP	CA-C-O	-6.65	113.37	120.42
1	7	150	ILE	O-C-N	-6.65	113.34	122.05
1	gh	167	ARG	NH1-CZ-NH2	-6.65	110.66	119.30
1	gi	107	THR	N-CA-C	6.65	118.60	111.36
1	gt	168	PHE	CB-CA-C	6.65	121.31	110.88
1	hf	163	ASP	N-CA-CB	6.65	120.53	110.30
1	1J	36	VAL	CA-C-N	6.65	134.43	122.13
1	1J	36	VAL	C-N-CA	6.65	134.43	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1X	10	MET	N-CA-C	6.65	120.56	111.39
1	1Z	218	CYS	O-C-N	-6.65	113.20	122.37
1	kr	99	PRO	CB-CA-C	-6.65	102.72	111.23
1	lp	185	MET	N-CA-C	6.65	118.53	111.28
1	lQ	167	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	2E	147	PRO	N-CA-C	6.65	121.68	111.11
1	31	213	GLU	N-CA-C	6.65	118.52	111.28
1	3c	216	THR	N-CA-CB	6.65	120.33	110.49
1	3w	68	MET	CA-C-O	-6.65	113.84	120.82
1	3z	139	ASN	CA-C-N	6.65	129.51	120.54
1	3z	139	ASN	C-N-CA	6.65	129.51	120.54
1	4p	26	VAL	N-CA-C	6.65	117.40	110.62
1	4t	221	VAL	CA-C-N	6.65	131.69	121.45
1	4t	221	VAL	C-N-CA	6.65	131.69	121.45
1	5f	224	PRO	CA-C-N	6.65	127.68	120.44
1	5f	224	PRO	C-N-CA	6.65	127.68	120.44
1	67	64	ALA	N-CA-C	-6.65	104.12	111.36
1	6a	191	VAL	N-CA-C	6.65	117.43	110.72
1	6Q	55	MET	N-CA-C	6.65	118.52	111.28
1	7x	158	LYS	CA-C-O	6.65	127.32	119.48
1	83	91	ILE	CA-C-N	6.65	129.35	120.58
1	83	91	ILE	C-N-CA	6.65	129.35	120.58
1	85	154	ARG	NE-CZ-NH1	6.65	128.15	121.50
1	8G	100	ARG	NE-CZ-NH2	6.65	125.18	119.20
1	8R	92	GLU	CA-C-N	6.65	126.67	119.89
1	8R	92	GLU	C-N-CA	6.65	126.67	119.89
1	97	223	GLY	CA-C-N	6.65	127.04	119.93
1	97	223	GLY	C-N-CA	6.65	127.04	119.93
1	9d	189	LEU	O-C-N	-6.65	115.08	122.12
1	9L	81	ASP	N-CA-C	6.65	118.18	111.07
1	ac	114	GLN	CA-C-O	6.65	127.59	120.55
1	ag	119	THR	O-C-N	-6.65	114.36	122.34
1	aP	84	HIS	CE1-NE2-CD2	-6.65	102.35	109.00
1	bl	172	LEU	N-CA-C	6.65	118.52	111.28
1	cp	198	CYS	CA-C-N	6.65	129.51	120.54
1	cp	198	CYS	C-N-CA	6.65	129.51	120.54
1	dm	193	ASN	CA-C-O	6.65	127.69	119.78
1	dW	23	TRP	CH2-CZ2-CE2	-6.65	108.86	117.50
1	eo	217	ALA	CA-C-N	6.65	132.04	122.40
1	eo	217	ALA	C-N-CA	6.65	132.04	122.40
1	1A	84	HIS	CA-CB-CG	-6.65	107.15	113.80
1	v	127	GLY	CA-C-N	6.65	129.42	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	127	GLY	C-N-CA	6.65	129.42	120.65
1	C	159	GLU	CB-CG-CD	-6.65	101.30	112.60
1	F	170	LYS	CA-C-N	6.65	129.08	120.44
1	F	170	LYS	C-N-CA	6.65	129.08	120.44
1	G	8	GLY	N-CA-C	6.65	123.06	111.50
1	g9	56	LEU	N-CA-C	6.64	118.52	111.28
1	ha	65	ALA	CB-CA-C	6.64	121.82	110.79
1	ho	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	hP	87	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	i5	89	GLY	CA-C-N	6.64	128.15	119.84
1	i5	89	GLY	C-N-CA	6.64	128.15	119.84
1	jj	108	THR	CA-CB-OG1	6.64	119.57	109.60
1	jk	193	ASN	CA-CB-CG	-6.64	105.95	112.60
1	kg	144	MET	O-C-N	-6.64	112.98	122.41
1	kA	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	kK	82	ARG	CA-C-N	6.64	129.72	120.29
1	kK	82	ARG	C-N-CA	6.64	129.72	120.29
1	lM	77	ALA	N-CA-C	6.64	118.60	111.36
1	2y	146	SER	CA-C-N	6.64	126.23	119.19
1	2y	146	SER	C-N-CA	6.64	126.23	119.19
1	2F	52	LEU	O-C-N	-6.64	115.23	122.07
1	2U	83	LEU	CB-CA-C	6.64	120.23	109.07
1	31	74	ASN	CA-C-O	-6.64	111.07	119.31
1	3p	206	GLY	O-C-N	-6.64	115.12	121.77
1	3O	50	GLN	N-CA-C	-6.64	104.04	111.28
1	43	113	GLU	CA-C-O	6.64	127.59	120.55
1	4M	70	LYS	CA-C-O	-6.64	113.84	120.82
1	4M	116	GLY	CA-C-N	6.64	129.18	120.28
1	4M	116	GLY	C-N-CA	6.64	129.18	120.28
1	4Z	154	ARG	NE-CZ-NH1	6.64	128.15	121.50
1	57	125	PRO	N-CA-CB	-6.64	97.88	102.73
1	5q	25	LYS	O-C-N	-6.64	114.58	122.15
1	63	84	HIS	O-C-N	-6.64	113.51	121.02
1	6o	204	ALA	N-CA-C	6.64	118.52	111.28
1	6p	180	GLU	CB-CA-C	-6.64	99.76	110.79
1	6x	189	LEU	CA-C-O	-6.64	113.84	120.82
1	70	226	HIS	N-CA-C	6.64	120.41	111.24
1	85	84	HIS	N-CA-CB	-6.64	100.65	110.88
1	8p	123	PRO	CA-C-O	-6.64	113.85	121.36
1	8r	95	GLN	N-CA-C	-6.64	97.71	108.41
1	8C	143	ARG	CA-C-N	6.64	129.85	120.28
1	8C	143	ARG	C-N-CA	6.64	129.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8R	73	ILE	CA-C-O	-6.64	114.13	121.17
1	90	84	HIS	CB-CG-ND1	6.64	132.67	122.70
1	92	217	ALA	N-CA-C	6.64	119.86	110.23
1	9c	209	ALA	N-CA-C	6.64	120.72	110.42
1	9m	77	ALA	N-CA-CB	6.64	119.65	110.01
1	a2	91	ILE	CA-C-O	-6.64	114.94	121.58
1	a5	56	LEU	N-CA-C	6.64	119.53	111.82
1	aj	4	GLN	OE1-CD-NE2	6.64	129.25	122.60
1	11	104	ILE	O-C-N	-6.64	115.42	121.87
1	aq	42	ALA	N-CA-C	6.64	118.18	111.07
1	au	13	GLN	CA-C-N	6.64	132.10	120.87
1	au	13	GLN	C-N-CA	6.64	132.10	120.87
1	aW	193	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	b6	229	ARG	NE-CZ-NH2	-6.64	113.22	119.20
1	bK	24	VAL	N-CA-CB	-6.64	101.50	110.54
1	1c	15	ILE	CA-C-O	6.64	128.62	121.04
1	1d	92	GLU	O-C-N	-6.64	116.37	121.55
1	cl	185	MET	N-CA-C	6.64	118.52	111.28
1	cW	226	HIS	ND1-CE1-NE2	6.64	115.05	108.40
1	dc	131	LYS	N-CA-C	6.64	118.52	111.28
1	dm	124	ILE	CA-C-O	6.64	123.63	119.51
1	dy	144	MET	CG-SD-CE	-6.64	86.28	100.90
1	dz	14	ALA	CA-C-O	6.64	128.80	121.56
1	dQ	33	SER	O-C-N	-6.64	115.12	121.57
1	e0	141	ILE	N-CA-C	-6.64	104.28	110.53
1	e1	11	VAL	O-C-N	-6.64	115.59	122.63
1	et	208	ALA	CA-C-N	6.64	132.42	121.39
1	et	208	ALA	C-N-CA	6.64	132.42	121.39
1	eI	27	VAL	N-CA-CB	6.64	119.58	110.54
1	eZ	146	SER	O-C-N	-6.64	115.53	121.31
1	fp	75	GLU	N-CA-C	6.64	118.18	111.07
1	fx	167	ARG	CA-C-N	6.64	130.03	120.79
1	fx	167	ARG	C-N-CA	6.64	130.03	120.79
1	t	36	VAL	CA-C-N	6.64	124.43	120.24
1	t	36	VAL	C-N-CA	6.64	124.43	120.24
1	y	136	LEU	CA-C-O	6.64	127.80	120.82
1	M	204	ALA	N-CA-C	6.64	118.60	111.36
1	gv	120	HIS	CA-CB-CG	6.64	120.44	113.80
1	gF	212	GLU	CA-C-N	6.64	129.51	120.54
1	gF	212	GLU	C-N-CA	6.64	129.51	120.54
1	h1	94	GLY	O-C-N	-6.64	116.26	122.50
1	hl	149	SER	CA-C-O	6.64	129.60	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hn	143	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	hr	207	PRO	CA-C-N	6.64	129.48	120.38
1	hr	207	PRO	C-N-CA	6.64	129.48	120.38
1	hA	126	VAL	N-CA-C	6.64	117.39	110.62
1	hW	119	THR	CA-C-O	6.64	126.58	119.34
1	i7	137	GLY	CA-C-N	6.64	129.42	120.65
1	i7	137	GLY	C-N-CA	6.64	129.42	120.65
1	in	209	ALA	CA-C-O	6.64	127.59	120.95
1	1U	20	LEU	CA-C-N	6.64	129.08	120.44
1	1U	20	LEU	C-N-CA	6.64	129.08	120.44
1	kb	139	ASN	CA-CB-CG	6.64	119.24	112.60
1	kx	80	TRP	N-CA-C	6.64	118.52	111.28
1	kK	54	THR	CA-C-O	6.64	127.59	120.55
1	lA	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	lE	40	PHE	CA-CB-CG	-6.64	107.16	113.80
1	lF	185	MET	CG-SD-CE	-6.64	86.29	100.90
1	lQ	66	MET	O-C-N	-6.64	114.58	122.15
1	2v	129	ILE	CB-CA-C	-6.64	103.32	112.02
1	2A	215	MET	O-C-N	-6.64	114.58	122.15
1	2V	47	ALA	CA-C-O	6.64	128.29	120.58
1	3U	131	LYS	O-C-N	-6.64	115.23	122.07
1	4v	80	TRP	CA-C-N	6.64	129.47	120.44
1	4v	80	TRP	C-N-CA	6.64	129.47	120.44
1	4R	42	ALA	N-CA-C	6.64	119.08	111.11
1	58	23	TRP	CA-C-O	-6.64	113.79	120.90
1	5b	32	PHE	CA-C-N	6.64	131.69	122.06
1	5b	32	PHE	C-N-CA	6.64	131.69	122.06
1	5G	53	ASN	O-C-N	-6.64	115.18	122.09
1	5L	90	PRO	CA-C-N	6.64	129.56	120.46
1	5L	90	PRO	C-N-CA	6.64	129.56	120.46
1	5M	72	THR	CA-C-N	6.64	128.93	120.56
1	5M	72	THR	C-N-CA	6.64	128.93	120.56
1	65	226	HIS	CB-CG-CD2	-6.64	122.56	131.20
1	68	28	GLU	CA-C-O	6.64	127.98	121.00
1	6Q	185	MET	CA-C-O	6.64	128.01	120.90
1	7d	33	SER	CA-C-N	6.64	128.14	119.84
1	7d	33	SER	C-N-CA	6.64	128.14	119.84
1	7t	63	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	7t	114	GLN	O-C-N	-6.64	115.23	122.07
1	7B	62	HIS	CG-CD2-NE2	-6.64	100.56	107.20
1	7K	179	GLN	N-CA-C	6.64	119.35	111.71
1	7M	37	ILE	CA-C-N	6.64	126.23	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7M	37	ILE	C-N-CA	6.64	126.23	119.19
1	7P	62	HIS	N-CA-C	6.64	121.06	111.56
1	80	121	ASN	CA-C-O	-6.64	113.48	119.86
1	8f	168	PHE	N-CA-C	-6.64	103.96	111.07
1	8I	166	ASP	N-CA-C	6.64	118.18	111.07
1	8V	109	SER	O-C-N	-6.64	114.79	123.16
1	ak	222	GLY	CA-C-O	-6.64	111.79	118.96
1	13	230	VAL	CA-C-O	-6.64	113.80	120.31
1	15	189	LEU	CA-C-N	6.64	130.08	120.38
1	15	189	LEU	C-N-CA	6.64	130.08	120.38
1	bc	76	GLU	N-CA-C	6.64	118.60	111.36
1	bE	27	VAL	CA-C-N	6.64	129.84	120.28
1	bE	27	VAL	C-N-CA	6.64	129.84	120.28
1	bP	106	GLY	CA-C-N	6.64	129.72	120.29
1	bP	106	GLY	C-N-CA	6.64	129.72	120.29
1	1b	57	ASN	CA-C-N	6.64	129.18	120.28
1	1b	57	ASN	C-N-CA	6.64	129.18	120.28
1	c2	59	VAL	N-CA-CB	6.64	118.57	111.46
1	c8	68	MET	N-CA-C	6.64	118.52	111.28
1	cd	7	GLN	N-CA-CB	6.64	120.25	109.95
1	ct	196	PRO	N-CA-C	6.64	126.15	112.47
1	cu	140	LYS	CA-C-O	6.64	127.46	120.42
1	cR	37	ILE	O-C-N	-6.64	116.17	120.42
1	dd	199	LYS	N-CA-C	6.64	118.52	111.28
1	1l	101	GLY	CA-C-N	6.64	129.48	120.38
1	1l	101	GLY	C-N-CA	6.64	129.48	120.38
1	e2	139	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	eh	8	GLY	O-C-N	-6.64	114.06	122.70
1	eq	178	SER	CA-C-N	6.64	129.85	120.28
1	eq	178	SER	C-N-CA	6.64	129.85	120.28
1	eN	39	MET	CG-SD-CE	-6.64	86.28	100.90
1	fl	67	GLN	N-CA-C	6.64	119.53	111.82
1	fy	195	ASN	CA-CB-CG	-6.64	105.96	112.60
1	n	229	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	gA	195	ASN	CA-C-N	6.64	128.14	119.84
1	gA	195	ASN	C-N-CA	6.64	128.14	119.84
1	gM	171	THR	CA-C-N	6.64	129.18	120.28
1	gM	171	THR	C-N-CA	6.64	129.18	120.28
1	i3	124	ILE	O-C-N	-6.64	114.81	120.92
1	iz	82	ARG	NE-CZ-NH2	-6.64	113.22	119.20
1	iG	132	ARG	CB-CA-C	6.64	121.81	110.79
1	jZ	179	GLN	OE1-CD-NE2	-6.64	115.96	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	23	74	ASN	CA-C-N	6.64	129.18	120.28
1	23	74	ASN	C-N-CA	6.64	129.18	120.28
1	kE	53	ASN	CA-C-N	6.64	129.07	120.44
1	kE	53	ASN	C-N-CA	6.64	129.07	120.44
1	kJ	217	ALA	CA-C-N	6.64	131.79	122.36
1	kJ	217	ALA	C-N-CA	6.64	131.79	122.36
1	2p	82	ARG	CA-C-N	6.64	129.84	120.28
1	2p	82	ARG	C-N-CA	6.64	129.84	120.28
1	2r	143	ARG	N-CA-CB	6.64	120.45	110.22
1	2B	221	VAL	CA-C-O	-6.64	111.11	119.48
1	33	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	3X	13	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	44	146	SER	CA-C-N	6.64	128.14	119.84
1	44	146	SER	C-N-CA	6.64	128.14	119.84
1	46	200	THR	N-CA-C	6.64	119.08	111.11
1	4p	117	TRP	N-CA-CB	6.64	119.99	110.16
1	4w	226	HIS	CA-C-O	6.64	127.08	119.18
1	54	202	LEU	N-CA-C	6.64	118.52	111.28
1	5U	61	GLY	CA-C-N	6.64	131.57	122.34
1	5U	61	GLY	C-N-CA	6.64	131.57	122.34
1	7R	155	GLN	CA-C-N	6.64	132.30	121.87
1	7R	155	GLN	C-N-CA	6.64	132.30	121.87
1	88	176	GLN	N-CA-CB	6.64	120.89	110.46
1	8z	164	TYR	CA-C-N	6.64	128.93	120.56
1	8z	164	TYR	C-N-CA	6.64	128.93	120.56
1	9h	89	GLY	CA-C-N	6.64	127.00	119.83
1	9h	89	GLY	C-N-CA	6.64	127.00	119.83
1	Y	5	ASN	CA-C-O	6.64	128.49	120.92
1	Y	86	VAL	O-C-N	-6.64	116.12	122.16
1	ap	63	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	aO	29	GLU	O-C-N	6.64	128.91	122.07
1	cQ	193	ASN	CA-C-N	6.64	130.14	120.71
1	cQ	193	ASN	C-N-CA	6.64	130.14	120.71
1	dG	39	MET	N-CA-C	6.64	118.60	111.36
1	e3	211	LEU	CA-C-N	6.64	129.18	120.28
1	e3	211	LEU	C-N-CA	6.64	129.18	120.28
1	ee	135	ILE	CA-C-O	-6.64	114.04	120.95
1	eU	183	ASN	CA-CB-CG	-6.64	105.96	112.60
1	f7	183	ASN	CA-CB-CG	-6.64	105.96	112.60
1	fn	43	LEU	N-CA-C	6.64	118.52	111.28
1	fC	166	ASP	O-C-N	-6.64	114.92	122.09
1	fN	78	ALA	O-C-N	-6.64	115.08	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1z	88	ALA	N-CA-C	6.64	120.00	110.24
1	fR	131	LYS	N-CA-C	6.64	119.35	111.71
1	fS	180	GLU	CB-CA-C	-6.64	99.77	110.79
1	f	139	ASN	O-C-N	-6.64	115.08	122.12
1	1	210	THR	CA-C-N	6.64	129.48	120.38
1	1	210	THR	C-N-CA	6.64	129.48	120.38
1	O	219	GLN	O-C-N	-6.64	114.59	122.96
1	W	135	ILE	N-CA-C	6.64	117.39	110.62
1	6	84	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	gx	62	HIS	CB-CG-CD2	-6.64	122.57	131.20
1	he	107	THR	N-CA-C	6.64	121.60	112.90
1	ho	42	ALA	CA-C-N	6.64	129.72	120.29
1	ho	42	ALA	C-N-CA	6.64	129.72	120.29
1	hr	87	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	il	195	ASN	CB-CA-C	6.64	119.96	109.27
1	iC	214	MET	CA-C-O	6.64	127.46	120.42
1	j4	70	LYS	N-CA-C	6.64	118.17	111.07
1	j5	103	ASP	CA-CB-CG	6.64	119.24	112.60
1	j6	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	j9	57	ASN	N-CA-C	-6.64	104.44	112.54
1	jo	216	THR	N-CA-CB	6.64	119.88	110.12
1	jy	80	TRP	CA-C-N	6.64	129.07	120.44
1	jy	80	TRP	C-N-CA	6.64	129.07	120.44
1	jZ	21	ASN	CA-CB-CG	-6.64	105.96	112.60
1	jZ	98	GLU	CA-C-O	-6.64	114.35	119.46
1	1Z	4	GLN	CA-C-N	6.64	133.01	122.59
1	1Z	4	GLN	C-N-CA	6.64	133.01	122.59
1	kh	202	LEU	CA-C-N	6.64	129.72	120.29
1	kh	202	LEU	C-N-CA	6.64	129.72	120.29
1	kF	117	TRP	O-C-N	-6.64	115.19	122.09
1	25	137	GLY	CA-C-N	6.64	129.07	120.44
1	25	137	GLY	C-N-CA	6.64	129.07	120.44
1	l0	68	MET	N-CA-C	6.64	118.52	111.28
1	ld	64	ALA	CA-C-O	6.64	127.59	120.55
1	li	15	ILE	CA-C-O	6.64	128.83	121.13
1	lo	122	PRO	CA-C-N	6.64	127.00	119.83
1	lo	122	PRO	C-N-CA	6.64	127.00	119.83
1	2A	42	ALA	CA-C-N	6.64	129.84	120.28
1	2A	42	ALA	C-N-CA	6.64	129.84	120.28
1	2K	96	MET	CA-C-N	6.64	130.78	120.75
1	2K	96	MET	C-N-CA	6.64	130.78	120.75
1	3k	143	ARG	CA-C-N	6.64	129.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3k	143	ARG	C-N-CA	6.64	129.07	120.44
1	3G	39	MET	CG-SD-CE	-6.64	86.29	100.90
1	3O	87	HIS	N-CA-CB	6.64	119.80	110.04
1	4f	180	GLU	N-CA-C	6.64	119.08	111.11
1	4D	72	THR	N-CA-C	6.64	118.17	111.07
1	4W	103	ASP	CA-C-O	6.64	127.59	120.55
1	50	27	VAL	O-C-N	-6.64	114.27	122.57
1	56	213	GLU	CA-C-N	6.64	129.07	120.44
1	56	213	GLU	C-N-CA	6.64	129.07	120.44
1	5x	143	ARG	O-C-N	-6.64	115.08	122.12
1	5C	5	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	5E	70	LYS	N-CA-C	6.64	118.60	111.36
1	5V	26	VAL	N-CA-CB	6.64	117.86	110.62
1	6j	120	HIS	CA-C-N	6.64	132.51	122.42
1	6j	120	HIS	C-N-CA	6.64	132.51	122.42
1	6n	177	ALA	CA-C-N	6.64	134.60	122.92
1	6n	177	ALA	C-N-CA	6.64	134.60	122.92
1	6E	147	PRO	O-C-N	-6.64	113.68	122.64
1	6K	82	ARG	NE-CZ-NH1	-6.64	114.86	121.50
1	6U	221	VAL	O-C-N	-6.64	114.85	122.09
1	7d	181	VAL	CA-C-N	6.64	129.07	120.44
1	7d	181	VAL	C-N-CA	6.64	129.07	120.44
1	7h	179	GLN	CB-CG-CD	6.64	123.89	112.60
1	7q	167	ARG	NE-CZ-NH2	-6.64	113.22	119.20
1	7y	68	MET	N-CA-C	6.64	118.52	111.28
1	7V	78	ALA	O-C-N	-6.64	115.08	122.12
1	82	174	ALA	N-CA-CB	-6.64	101.40	110.56
1	85	230	VAL	N-CA-C	6.64	118.24	109.21
1	8c	137	GLY	CA-C-N	6.64	129.72	120.29
1	8c	137	GLY	C-N-CA	6.64	129.72	120.29
1	8E	72	THR	O-C-N	-6.64	115.08	122.12
1	8G	182	LYS	N-CA-CB	6.64	119.70	110.07
1	8U	35	GLU	CA-C-O	6.64	127.60	120.10
1	96	15	ILE	CA-C-N	-6.64	111.06	120.49
1	96	15	ILE	C-N-CA	-6.64	111.06	120.49
1	99	154	ARG	NE-CZ-NH2	-6.64	113.22	119.20
1	9V	139	ASN	N-CA-C	6.64	119.36	111.33
1	aB	71	GLU	CA-C-O	6.64	127.59	120.55
1	13	125	PRO	O-C-N	-6.64	112.69	122.12
1	aM	211	LEU	CA-C-N	6.64	129.50	120.54
1	aM	211	LEU	C-N-CA	6.64	129.50	120.54
1	aT	150	ILE	N-CA-C	6.64	117.39	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1c	154	ARG	NE-CZ-NH2	6.64	125.18	119.20
1	cp	96	MET	CA-C-N	6.64	130.14	120.71
1	cp	96	MET	C-N-CA	6.64	130.14	120.71
1	cK	193	ASN	N-CA-C	-6.64	105.15	112.72
1	d2	84	HIS	CG-CD2-NE2	6.64	113.84	107.20
1	dr	128	GLU	N-CA-CB	6.64	119.88	110.12
1	dx	226	HIS	CE1-NE2-CD2	-6.64	102.36	109.00
1	dW	77	ALA	O-C-N	-6.64	115.23	122.07
1	eG	20	LEU	N-CA-C	6.64	118.52	111.28
1	eY	225	GLY	O-C-N	-6.64	114.67	122.50
1	f5	162	ARG	N-CA-C	6.64	118.17	111.07
1	fp	106	GLY	O-C-N	-6.64	114.48	122.38
1	fp	158	LYS	CA-C-O	6.64	127.12	119.35
1	fO	110	THR	CA-C-N	6.64	129.07	120.44
1	fO	110	THR	C-N-CA	6.64	129.07	120.44
1	fW	120	HIS	ND1-CE1-NE2	6.64	115.04	108.40
1	g4	4	GLN	N-CA-CB	6.64	121.71	110.49
1	g4	84	HIS	O-C-N	-6.64	113.68	121.32
1	K	136	LEU	CB-CA-C	6.64	121.30	110.88
1	gx	45	GLU	CA-C-O	-6.64	113.63	120.80
1	gR	209	ALA	N-CA-C	6.64	119.38	110.35
1	h8	164	TYR	N-CA-C	6.64	118.52	111.28
1	hu	228	ALA	N-CA-C	6.64	119.32	111.02
1	1U	189	LEU	N-CA-C	6.64	119.08	111.11
1	1Z	121	ASN	CA-C-N	6.64	127.22	120.38
1	1Z	121	ASN	C-N-CA	6.64	127.22	120.38
1	kC	67	GLN	CA-C-O	6.64	128.00	120.90
1	kD	143	ARG	N-CA-C	6.64	119.08	111.11
1	lv	198	CYS	N-CA-C	6.64	119.34	111.71
1	2k	76	GLU	CA-C-N	6.64	129.18	120.28
1	2k	76	GLU	C-N-CA	6.64	129.18	120.28
1	3u	173	ARG	NE-CZ-NH2	-6.64	113.23	119.20
1	4O	102	SER	CA-C-N	6.64	129.07	120.44
1	4O	102	SER	C-N-CA	6.64	129.07	120.44
1	56	87	HIS	CA-CB-CG	6.64	120.44	113.80
1	6z	65	ALA	CA-C-O	6.64	128.00	120.90
1	6N	219	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	7l	30	LYS	O-C-N	-6.64	114.57	122.27
1	7s	229	ARG	NE-CZ-NH2	6.64	125.17	119.20
1	7F	168	PHE	O-C-N	-6.64	115.23	122.07
1	99	166	ASP	O-C-N	-6.64	115.08	122.12
1	9a	62	HIS	CA-C-N	6.64	130.40	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9a	62	HIS	C-N-CA	6.64	130.40	120.31
1	9N	108	THR	CA-C-O	-6.64	111.65	119.48
1	af	211	LEU	CA-C-N	6.64	129.72	120.29
1	af	211	LEU	C-N-CA	6.64	129.72	120.29
1	aJ	120	HIS	CA-CB-CG	6.64	120.44	113.80
1	bl	229	ARG	CG-CD-NE	-6.64	97.40	112.00
1	cr	16	SER	CB-CA-C	6.64	117.42	109.85
1	cz	12	HIS	N-CA-C	6.64	119.38	110.35
1	cX	7	GLN	CA-C-O	6.64	127.98	119.95
1	dd	122	PRO	CA-C-N	6.64	128.14	119.84
1	dd	122	PRO	C-N-CA	6.64	128.14	119.84
1	dP	174	ALA	N-CA-C	6.64	118.17	111.07
1	dR	185	MET	CA-C-N	6.64	129.07	120.44
1	dR	185	MET	C-N-CA	6.64	129.07	120.44
1	eN	112	GLN	N-CA-C	6.64	118.52	111.28
1	fE	183	ASN	CA-CB-CG	-6.64	105.96	112.60
1	ga	174	ALA	CA-C-N	6.64	132.09	120.87
1	ga	174	ALA	C-N-CA	6.64	132.09	120.87
1	gF	103	ASP	CA-C-N	6.64	128.92	120.56
1	gF	103	ASP	C-N-CA	6.64	128.92	120.56
1	gJ	37	ILE	CB-CA-C	-6.64	107.32	114.35
1	h9	214	MET	N-CA-C	6.64	119.07	111.11
1	hD	72	THR	CA-C-N	6.64	129.55	120.46
1	hD	72	THR	C-N-CA	6.64	129.55	120.46
1	hO	135	ILE	O-C-N	-6.64	115.39	121.89
1	i6	2	ILE	O-C-N	-6.64	116.00	123.10
1	if	97	ARG	CB-CA-C	6.64	120.74	109.72
1	1Q	32	PHE	CA-CB-CG	-6.64	107.16	113.80
1	1Q	75	GLU	N-CA-C	6.64	118.51	111.28
1	iT	225	GLY	CA-C-N	6.64	130.29	120.87
1	iT	225	GLY	C-N-CA	6.64	130.29	120.87
1	iW	84	HIS	CA-C-N	6.64	128.14	119.84
1	iW	84	HIS	C-N-CA	6.64	128.14	119.84
1	jd	139	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	jS	192	GLN	N-CA-C	6.64	118.52	111.28
1	k0	20	LEU	CA-C-O	-6.64	113.52	120.55
1	ki	214	MET	N-CA-C	-6.64	104.66	112.89
1	kq	211	LEU	N-CA-C	6.64	118.51	111.28
1	kr	86	VAL	N-CA-C	6.64	123.14	109.34
1	kA	130	TYR	N-CA-C	6.64	118.17	111.07
1	kG	128	GLU	O-C-N	6.64	129.72	122.15
1	kT	143	ARG	N-CA-C	6.64	118.51	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ld	150	ILE	CA-C-O	6.64	127.64	120.47
1	li	191	VAL	N-CA-C	6.64	116.79	110.42
1	2k	29	GLU	N-CA-C	6.64	118.31	111.14
1	2l	186	THR	N-CA-CB	6.64	119.98	110.16
1	2C	138	LEU	N-CA-CB	6.64	119.88	110.12
1	2E	50	GLN	CB-CA-C	6.64	121.30	110.88
1	34	14	ALA	CA-C-O	6.64	130.00	120.51
1	3e	128	GLU	O-C-N	-6.64	115.09	122.12
1	3r	174	ALA	N-CA-C	6.64	118.51	111.28
1	3F	178	SER	N-CA-C	6.64	119.64	110.35
1	3I	120	HIS	CA-CB-CG	6.64	120.44	113.80
1	3S	70	LYS	CA-C-O	6.64	127.45	120.42
1	44	51	ASP	N-CA-C	6.64	118.52	111.28
1	4g	73	ILE	CA-C-N	6.64	129.17	120.28
1	4g	73	ILE	C-N-CA	6.64	129.17	120.28
1	4h	72	THR	N-CA-C	-6.64	104.13	111.36
1	4s	110	THR	CA-C-N	6.64	129.50	120.54
1	4s	110	THR	C-N-CA	6.64	129.50	120.54
1	4F	64	ALA	N-CA-CB	-6.64	100.36	110.12
1	4J	114	GLN	N-CA-C	6.64	118.51	111.28
1	4W	100	ARG	CA-C-N	6.64	127.35	119.98
1	4W	100	ARG	C-N-CA	6.64	127.35	119.98
1	4X	210	THR	N-CA-C	6.64	118.87	110.24
1	57	182	LYS	N-CA-C	6.64	119.36	111.33
1	5J	112	GLN	O-C-N	-6.64	114.46	122.22
1	5R	199	LYS	N-CA-C	6.64	119.52	111.82
1	5T	100	ARG	CD-NE-CZ	6.64	133.69	124.40
1	6k	161	PHE	CA-C-N	6.64	129.72	120.29
1	6k	161	PHE	C-N-CA	6.64	129.72	120.29
1	6R	70	LYS	N-CA-CB	6.64	119.63	110.01
1	6W	11	VAL	O-C-N	-6.64	115.90	122.93
1	6X	67	GLN	O-C-N	-6.64	115.08	122.12
1	6X	197	ASP	CA-CB-CG	6.64	119.24	112.60
1	7D	193	ASN	OD1-CG-ND2	-6.64	115.96	122.60
1	7K	162	ARG	NE-CZ-NH2	6.64	125.17	119.20
1	7T	53	ASN	CA-CB-CG	-6.64	105.96	112.60
1	8b	151	LEU	CA-C-O	6.64	127.54	119.38
1	8r	79	GLU	N-CA-C	6.64	118.59	111.36
1	8s	52	LEU	CA-C-N	6.64	129.07	120.44
1	8s	52	LEU	C-N-CA	6.64	129.07	120.44
1	8G	14	ALA	CA-C-O	6.64	128.59	121.55
1	91	130	TYR	N-CA-C	-6.64	103.53	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	95	194	ALA	N-CA-C	6.64	119.85	110.23
1	9L	20	LEU	N-CA-C	6.64	118.52	111.28
1	au	125	PRO	CA-C-O	-6.64	116.40	121.31
1	aQ	184	TRP	CD2-CE2-CZ2	-6.64	115.76	122.40
1	bQ	227	LYS	CA-C-N	6.64	130.99	121.50
1	bQ	227	LYS	C-N-CA	6.64	130.99	121.50
1	c9	156	GLY	CA-C-O	-6.64	112.03	121.52
1	cA	23	TRP	N-CA-C	6.64	118.59	111.36
1	cM	51	ASP	CA-C-N	6.64	129.07	120.44
1	cM	51	ASP	C-N-CA	6.64	129.07	120.44
1	cW	82	ARG	CA-C-N	6.64	129.07	120.44
1	cW	82	ARG	C-N-CA	6.64	129.07	120.44
1	cX	79	GLU	N-CA-C	6.64	119.07	111.11
1	da	173	ARG	NE-CZ-NH1	6.64	128.14	121.50
1	dd	87	HIS	CB-CG-CD2	-6.64	122.57	131.20
1	dd	198	CYS	CA-C-N	6.64	129.17	120.28
1	dd	198	CYS	C-N-CA	6.64	129.17	120.28
1	1j	37	ILE	N-CA-CB	-6.64	106.32	110.50
1	dx	65	ALA	N-CA-C	6.64	118.17	111.07
1	dy	201	ILE	O-C-N	-6.64	115.43	121.87
1	dC	111	LEU	CA-C-N	6.64	129.17	120.28
1	dC	111	LEU	C-N-CA	6.64	129.17	120.28
1	e3	184	TRP	CA-C-O	6.64	127.54	119.31
1	es	37	ILE	CA-C-N	6.64	126.22	119.19
1	es	37	ILE	C-N-CA	6.64	126.22	119.19
1	f5	52	LEU	N-CA-C	6.64	118.59	111.36
1	fI	142	VAL	N-CA-CB	6.64	117.88	110.51
1	fK	95	GLN	OE1-CD-NE2	-6.64	115.96	122.60
1	fM	141	ILE	CA-C-O	6.64	127.42	120.25
1	fO	78	ALA	CA-C-N	6.64	129.17	120.28
1	fO	78	ALA	C-N-CA	6.64	129.17	120.28
1	a	125	PRO	CA-C-N	6.64	128.92	120.56
1	a	125	PRO	C-N-CA	6.64	128.92	120.56
1	W	145	TYR	CA-C-N	6.64	128.54	122.37
1	W	145	TYR	C-N-CA	6.64	128.54	122.37
1	8	109	SER	CA-C-O	6.64	127.87	120.70
1	gj	155	GLN	CA-C-N	6.63	132.29	121.87
1	gj	155	GLN	C-N-CA	6.63	132.29	121.87
1	gC	84	HIS	CA-C-N	6.63	128.13	119.84
1	gC	84	HIS	C-N-CA	6.63	128.13	119.84
1	gK	72	THR	N-CA-C	6.63	118.31	111.14
1	gL	178	SER	O-C-N	-6.63	115.29	122.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gS	53	ASN	N-CA-C	6.63	118.59	111.36
1	h8	184	TRP	CA-C-N	6.63	131.74	121.19
1	h8	184	TRP	C-N-CA	6.63	131.74	121.19
1	ha	190	LEU	N-CA-C	6.63	118.51	111.28
1	hc	21	ASN	CA-C-N	6.63	129.46	120.44
1	hc	21	ASN	C-N-CA	6.63	129.46	120.44
1	hd	9	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	hm	42	ALA	O-C-N	-6.63	115.09	122.12
1	hw	143	ARG	O-C-N	6.63	129.19	122.03
1	1L	53	ASN	N-CA-C	6.63	118.51	111.28
1	i8	104	ILE	O-C-N	6.63	128.31	121.87
1	i8	140	LYS	N-CA-C	6.63	118.17	111.07
1	iw	190	LEU	N-CA-C	-6.63	104.81	113.17
1	iA	226	HIS	CA-CB-CG	6.63	120.44	113.80
1	iE	156	GLY	O-C-N	-6.63	116.45	122.42
1	iN	92	GLU	CA-C-N	6.63	127.81	120.45
1	iN	92	GLU	C-N-CA	6.63	127.81	120.45
1	iT	67	GLN	N-CA-C	6.63	118.51	111.28
1	j9	12	HIS	ND1-CE1-NE2	6.63	115.03	108.40
1	jb	5	ASN	CA-CB-CG	6.63	119.23	112.60
1	jb	228	ALA	O-C-N	-6.63	114.99	122.75
1	js	8	GLY	N-CA-C	6.63	122.99	111.78
1	jv	134	ILE	CA-C-O	-6.63	113.69	121.05
1	1W	197	ASP	CA-C-N	6.63	129.17	120.28
1	1W	197	ASP	C-N-CA	6.63	129.17	120.28
1	1X	189	LEU	N-CA-C	6.63	119.36	111.33
1	jK	96	MET	N-CA-C	6.63	120.31	109.76
1	jO	117	TRP	N-CA-C	6.63	118.17	111.07
1	k4	41	SER	CA-C-N	6.63	129.06	120.44
1	k4	41	SER	C-N-CA	6.63	129.06	120.44
1	k7	51	ASP	N-CA-CB	6.63	119.63	110.01
1	kf	8	GLY	O-C-N	-6.63	115.14	122.90
1	21	229	ARG	CA-C-N	6.63	129.45	120.63
1	21	229	ARG	C-N-CA	6.63	129.45	120.63
1	kt	140	LYS	N-CA-CB	6.63	120.01	110.06
1	ku	171	THR	CA-CB-CG2	6.63	121.78	110.50
1	kw	151	LEU	CA-C-N	6.63	130.40	120.31
1	kw	151	LEU	C-N-CA	6.63	130.40	120.31
1	kK	189	LEU	O-C-N	-6.63	115.09	122.12
1	kP	126	VAL	CA-C-O	-6.63	114.05	120.95
1	l8	162	ARG	O-C-N	-6.63	115.09	122.12
1	l8	199	LYS	CA-C-N	6.63	129.71	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	199	LYS	C-N-CA	6.63	129.71	120.29
1	ly	217	ALA	N-CA-C	6.63	120.34	110.52
1	lK	37	ILE	CA-C-N	6.63	126.14	119.24
1	lK	37	ILE	C-N-CA	6.63	126.14	119.24
1	2l	135	ILE	CA-C-N	6.63	129.47	120.38
1	2l	135	ILE	C-N-CA	6.63	129.47	120.38
1	2E	188	THR	CA-C-N	6.63	134.21	121.54
1	2E	188	THR	C-N-CA	6.63	134.21	121.54
1	2Q	22	ALA	N-CA-C	6.63	119.07	111.11
1	2V	120	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
1	3d	53	ASN	CA-CB-CG	-6.63	105.97	112.60
1	3U	178	SER	CA-C-N	6.63	129.17	120.28
1	3U	178	SER	C-N-CA	6.63	129.17	120.28
1	4k	77	ALA	N-CA-C	6.63	118.17	111.07
1	5a	211	LEU	N-CA-C	-6.63	104.13	111.36
1	5g	154	ARG	NE-CZ-NH2	6.63	125.17	119.20
1	5h	127	GLY	CA-C-N	6.63	129.17	120.28
1	5h	127	GLY	C-N-CA	6.63	129.17	120.28
1	5W	120	HIS	CB-CG-CD2	-6.63	122.57	131.20
1	6q	168	PHE	N-CA-C	6.63	118.39	111.03
1	75	64	ALA	CA-C-N	6.63	129.17	120.28
1	75	64	ALA	C-N-CA	6.63	129.17	120.28
1	7l	67	GLN	CB-CG-CD	6.63	123.88	112.60
1	7Z	115	ILE	CA-C-N	6.63	127.46	120.03
1	7Z	115	ILE	C-N-CA	6.63	127.46	120.03
1	86	220	GLY	O-C-N	-6.63	115.72	123.09
1	89	214	MET	CA-C-O	6.63	127.45	120.42
1	8i	64	ALA	N-CA-C	6.63	118.51	111.28
1	8H	185	MET	CA-C-N	6.63	129.47	120.38
1	8H	185	MET	C-N-CA	6.63	129.47	120.38
1	9T	58	THR	CA-C-N	6.63	129.39	120.50
1	9T	58	THR	C-N-CA	6.63	129.39	120.50
1	a4	177	ALA	CA-C-N	6.63	130.25	120.90
1	a4	177	ALA	C-N-CA	6.63	130.25	120.90
1	ab	159	GLU	N-CA-C	-6.63	98.77	109.58
1	an	119	THR	CA-CB-CG2	6.63	121.78	110.50
1	ay	200	THR	O-C-N	-6.63	115.09	122.12
1	bi	89	GLY	CA-C-N	6.63	126.39	119.76
1	bi	89	GLY	C-N-CA	6.63	126.39	119.76
1	bk	172	LEU	O-C-N	-6.63	115.09	122.12
1	bm	229	ARG	N-CA-C	6.63	119.85	110.23
1	bT	99	PRO	N-CA-CB	6.63	109.09	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	154	ARG	CA-C-N	-6.63	113.84	123.00
1	bZ	154	ARG	C-N-CA	-6.63	113.84	123.00
1	cf	54	THR	O-C-N	-6.63	115.09	122.12
1	1e	35	GLU	O-C-N	-6.63	114.38	122.34
1	cr	63	GLN	N-CA-C	6.63	121.12	112.89
1	cY	143	ARG	N-CA-C	6.63	118.51	111.28
1	cZ	92	GLU	CA-C-N	6.63	127.48	120.12
1	cZ	92	GLU	C-N-CA	6.63	127.48	120.12
1	d0	87	HIS	N-CA-C	6.63	119.40	109.25
1	d7	17	PRO	O-C-N	-6.63	113.31	122.27
1	dc	187	GLU	CA-C-O	6.63	127.79	120.82
1	dC	87	HIS	N-CA-CB	6.63	120.98	110.23
1	dG	9	GLN	N-CA-C	6.63	119.37	110.35
1	dI	97	ARG	NE-CZ-NH1	6.63	128.13	121.50
1	e4	138	LEU	CA-C-O	-6.63	113.85	120.82
1	eg	34	PRO	CA-C-N	6.63	131.22	120.60
1	eg	34	PRO	C-N-CA	6.63	131.22	120.60
1	ei	103	ASP	O-C-N	-6.63	114.92	122.09
1	ek	159	GLU	N-CA-CB	6.63	118.92	110.23
1	f4	65	ALA	CA-C-O	6.63	127.58	120.55
1	g4	78	ALA	O-C-N	-6.63	114.11	122.27
1	r	42	ALA	CA-C-O	-6.63	112.60	120.10
1	u	76	GLU	CA-C-N	6.63	129.06	120.44
1	u	76	GLU	C-N-CA	6.63	129.06	120.44
1	H	159	GLU	N-CA-C	6.63	118.25	109.83
1	Q	94	GLY	CA-C-N	6.63	130.77	120.75
1	Q	94	GLY	C-N-CA	6.63	130.77	120.75
1	V	206	GLY	CA-C-N	6.63	127.03	119.93
1	V	206	GLY	C-N-CA	6.63	127.03	119.93
1	gq	173	ARG	CA-C-O	6.63	127.53	119.31
1	gD	136	LEU	CA-C-N	6.63	127.30	120.00
1	gD	136	LEU	C-N-CA	6.63	127.30	120.00
1	hz	117	TRP	CG-CD2-CE3	6.63	140.53	133.90
1	i1	97	ARG	N-CA-CB	6.63	121.70	110.49
1	il	22	ALA	CA-C-N	6.63	129.06	120.44
1	il	22	ALA	C-N-CA	6.63	129.06	120.44
1	iN	203	LYS	CA-C-N	6.63	129.50	120.54
1	iN	203	LYS	C-N-CA	6.63	129.50	120.54
1	iR	200	THR	N-CA-C	6.63	119.36	111.33
1	iT	184	TRP	N-CA-C	6.63	118.59	111.36
1	jc	226	HIS	O-C-N	-6.63	115.30	123.33
1	jd	183	ASN	N-CA-C	6.63	119.07	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jP	32	PHE	N-CA-C	-6.63	104.50	112.59
1	kM	119	THR	CA-C-N	6.63	130.57	120.82
1	kM	119	THR	C-N-CA	6.63	130.57	120.82
1	lo	96	MET	CA-C-N	6.63	130.13	120.71
1	lo	96	MET	C-N-CA	6.63	130.13	120.71
1	3i	25	LYS	N-CA-C	6.63	118.59	111.36
1	3i	195	ASN	OD1-CG-ND2	-6.63	115.97	122.60
1	3H	98	GLU	CA-C-N	6.63	128.13	119.84
1	3H	98	GLU	C-N-CA	6.63	128.13	119.84
1	4I	196	PRO	O-C-N	-6.63	113.69	122.64
1	5c	207	PRO	N-CA-CB	6.63	109.50	103.20
1	6J	212	GLU	CA-C-O	6.63	127.58	120.55
1	7u	12	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
1	7y	145	TYR	CA-CB-CG	-6.63	101.96	113.90
1	8C	119	THR	CA-C-O	6.63	127.11	119.35
1	8E	137	GLY	CA-C-N	6.63	129.71	120.29
1	8E	137	GLY	C-N-CA	6.63	129.71	120.29
1	bq	27	VAL	CA-C-O	-6.63	113.69	121.05
1	ck	36	VAL	O-C-N	6.63	128.66	121.83
1	cE	12	HIS	ND1-CE1-NE2	6.63	115.03	108.40
1	cU	173	ARG	NE-CZ-NH2	6.63	125.17	119.20
1	d2	84	HIS	CA-C-N	6.63	128.13	119.84
1	d2	84	HIS	C-N-CA	6.63	128.13	119.84
1	dn	89	GLY	CA-C-N	6.63	128.13	119.84
1	dn	89	GLY	C-N-CA	6.63	128.13	119.84
1	dO	17	PRO	CB-CA-C	6.63	121.36	111.68
1	ec	193	ASN	CA-CB-CG	-6.63	105.97	112.60
1	ff	29	GLU	CA-C-O	-6.63	113.39	120.42
1	fs	6	LEU	N-CA-C	-6.63	97.36	109.56
1	fs	41	SER	CA-C-N	6.63	129.17	120.28
1	fs	41	SER	C-N-CA	6.63	129.17	120.28
1	C	3	VAL	CA-CB-CG2	-6.63	99.12	110.40
1	1C	42	ALA	N-CA-C	6.63	118.17	111.07
1	gu	23	TRP	CB-CG-CD2	6.63	136.09	126.80
1	gH	214	MET	N-CA-CB	6.63	119.97	110.16
1	gT	83	LEU	O-C-N	-6.63	113.61	122.23
1	gU	187	GLU	N-CA-C	-6.63	105.72	113.88
1	he	24	VAL	N-CA-C	6.63	119.34	111.05
1	hi	210	THR	O-C-N	-6.63	114.56	122.65
1	hR	195	ASN	CA-C-N	6.63	126.14	119.24
1	hR	195	ASN	C-N-CA	6.63	126.14	119.24
1	1M	90	PRO	N-CA-CB	-6.63	97.75	103.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ie	52	LEU	N-CA-C	6.63	118.51	111.28
1	ih	121	ASN	CA-CB-CG	-6.63	105.97	112.60
1	iw	97	ARG	NE-CZ-NH2	-6.63	113.23	119.20
1	jZ	11	VAL	CA-C-O	6.63	127.29	120.39
1	kr	128	GLU	N-CA-C	6.63	118.51	111.28
1	ky	70	LYS	CA-C-N	6.63	129.49	120.54
1	ky	70	LYS	C-N-CA	6.63	129.49	120.54
1	kC	166	ASP	CA-C-O	-6.63	113.86	120.82
1	l2	91	ILE	N-CA-CB	6.63	118.95	110.99
1	lq	18	ARG	CA-C-N	6.63	129.06	120.44
1	lq	18	ARG	C-N-CA	6.63	129.06	120.44
1	ly	15	ILE	CA-C-N	6.63	129.56	120.67
1	ly	15	ILE	C-N-CA	6.63	129.56	120.67
1	2k	72	THR	CA-CB-CG2	6.63	121.77	110.50
1	2J	191	VAL	CA-C-N	6.63	129.17	120.28
1	2J	191	VAL	C-N-CA	6.63	129.17	120.28
1	3c	19	THR	CA-C-N	6.63	129.71	120.29
1	3c	19	THR	C-N-CA	6.63	129.71	120.29
1	3z	189	LEU	CD1-CG-CD2	-6.63	96.21	110.80
1	42	145	TYR	CA-C-O	6.63	127.07	119.18
1	4f	132	ARG	N-CA-C	6.63	118.51	111.28
1	4S	211	LEU	CA-C-N	6.63	129.06	120.44
1	4S	211	LEU	C-N-CA	6.63	129.06	120.44
1	5p	92	GLU	N-CA-C	6.63	119.23	110.08
1	5R	31	ALA	O-C-N	-6.63	115.09	122.12
1	5W	155	GLN	CB-CG-CD	6.63	123.87	112.60
1	68	55	MET	N-CA-C	6.63	119.36	111.33
1	7b	162	ARG	NH1-CZ-NH2	-6.63	110.68	119.30
1	7y	23	TRP	CB-CA-C	6.63	121.29	110.88
1	81	200	THR	O-C-N	-6.63	115.09	122.12
1	84	110	THR	N-CA-C	6.63	119.50	110.55
1	8h	135	ILE	O-C-N	-6.63	115.44	121.87
1	8q	37	ILE	CA-C-O	-6.63	114.25	118.69
1	8s	201	ILE	N-CA-C	6.63	117.42	110.72
1	8w	43	LEU	CA-C-O	6.63	127.54	119.38
1	97	32	PHE	CA-C-O	6.63	127.30	119.28
1	99	193	ASN	CA-CB-CG	-6.63	105.97	112.60
1	9s	229	ARG	NE-CZ-NH1	6.63	128.13	121.50
1	9D	103	ASP	CA-C-N	6.63	129.15	120.60
1	9D	103	ASP	C-N-CA	6.63	129.15	120.60
1	9W	203	LYS	O-C-N	-6.63	114.46	122.22
1	9X	33	SER	CA-C-N	6.63	126.77	119.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	33	SER	C-N-CA	6.63	126.77	119.87
1	ae	4	GLN	N-CA-CB	6.63	121.70	110.49
1	12	66	MET	O-C-N	-6.63	115.09	122.12
1	au	168	PHE	CA-CB-CG	6.63	120.43	113.80
1	aB	5	ASN	O-C-N	-6.63	115.65	123.41
1	aB	142	VAL	CA-C-N	6.63	129.17	120.28
1	aB	142	VAL	C-N-CA	6.63	129.17	120.28
1	aR	84	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
1	bc	62	HIS	CA-C-N	6.63	129.17	120.28
1	bc	62	HIS	C-N-CA	6.63	129.17	120.28
1	br	173	ARG	NE-CZ-NH2	-6.63	113.23	119.20
1	19	209	ALA	N-CA-C	6.63	124.93	110.80
1	bW	126	VAL	N-CA-C	6.63	119.34	111.05
1	c4	211	LEU	CA-C-N	6.63	129.49	120.54
1	c4	211	LEU	C-N-CA	6.63	129.49	120.54
1	cG	166	ASP	N-CA-C	6.63	118.17	111.07
1	dk	187	GLU	N-CA-C	6.63	118.17	111.07
1	dy	143	ARG	N-CA-C	6.63	118.51	111.28
1	dC	192	GLN	N-CA-C	6.63	119.07	111.11
1	dS	112	GLN	O-C-N	-6.63	114.64	122.20
1	1r	24	VAL	N-CA-C	6.63	117.39	110.62
1	eL	229	ARG	O-C-N	-6.63	114.79	123.21
1	eT	133	TRP	CA-C-N	6.63	128.92	120.56
1	eT	133	TRP	C-N-CA	6.63	128.92	120.56
1	f5	20	LEU	O-C-N	-6.63	115.09	122.12
1	ft	53	ASN	CA-CB-CG	-6.63	105.97	112.60
1	fu	159	GLU	O-C-N	-6.63	115.67	121.31
1	1z	5	ASN	OD1-CG-ND2	-6.63	115.97	122.60
1	1A	73	ILE	O-C-N	-6.63	115.41	121.91
1	g6	65	ALA	CA-C-N	6.63	129.17	120.28
1	g6	65	ALA	C-N-CA	6.63	129.17	120.28
1	0	8	GLY	CA-C-O	6.63	127.28	119.46
1	gf	115	ILE	O-C-N	-6.63	115.00	121.83
1	gp	204	ALA	CA-C-O	6.63	127.59	120.10
1	gP	137	GLY	N-CA-C	6.63	120.19	112.50
1	ho	12	HIS	CA-CB-CG	6.63	120.43	113.80
1	hy	195	ASN	CB-CA-C	6.63	119.94	109.27
1	i4	22	ALA	CA-C-O	6.63	127.45	120.42
1	iG	50	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	jT	65	ALA	N-CA-C	6.63	118.51	111.28
1	k2	96	MET	CA-C-O	-6.63	114.52	121.55
1	kp	140	LYS	O-C-N	-6.63	115.09	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kv	31	ALA	CA-C-N	6.63	130.25	120.90
1	kv	31	ALA	C-N-CA	6.63	130.25	120.90
1	kS	180	GLU	CA-C-O	6.63	127.59	120.10
1	lu	21	ASN	CA-CB-CG	6.63	119.23	112.60
1	3T	68	MET	CA-C-O	6.63	127.45	120.42
1	4a	64	ALA	CA-C-N	6.63	129.06	120.44
1	4a	64	ALA	C-N-CA	6.63	129.06	120.44
1	4d	189	LEU	N-CA-C	6.63	119.33	111.71
1	4Y	87	HIS	CB-CG-CD2	-6.63	122.58	131.20
1	6Q	96	MET	N-CA-CB	-6.63	101.00	110.81
1	6T	90	PRO	N-CA-C	6.63	126.13	112.47
1	74	126	VAL	CA-C-O	6.63	127.87	120.64
1	7r	197	ASP	CA-C-O	6.63	127.60	119.11
1	7M	119	THR	CA-C-O	6.63	127.60	119.11
1	83	149	SER	N-CA-CB	6.63	121.53	110.59
1	8q	78	ALA	N-CA-CB	6.63	119.87	110.12
1	8v	82	ARG	CA-C-N	6.63	130.39	120.31
1	8v	82	ARG	C-N-CA	6.63	130.39	120.31
1	17	62	HIS	CA-C-O	6.63	128.53	120.57
1	br	132	ARG	N-CA-C	6.63	119.35	111.33
1	bI	53	ASN	CA-C-N	6.63	129.06	120.44
1	bI	53	ASN	C-N-CA	6.63	129.06	120.44
1	cj	103	ASP	CA-C-N	6.63	131.17	120.30
1	cj	103	ASP	C-N-CA	6.63	131.17	120.30
1	dx	226	HIS	ND1-CE1-NE2	6.63	115.03	108.40
1	1m	10	MET	CG-SD-CE	-6.63	86.31	100.90
1	ek	123	PRO	CA-C-N	-6.63	115.29	122.85
1	ek	123	PRO	C-N-CA	-6.63	115.29	122.85
1	ex	135	ILE	CA-C-O	6.63	127.84	120.95
1	f5	97	ARG	NE-CZ-NH1	6.63	128.13	121.50
1	fD	24	VAL	CA-C-O	-6.63	113.48	120.57
1	c	9	GLN	CG-CD-NE2	6.63	126.34	116.40
1	t	47	ALA	N-CA-C	6.63	119.98	110.10
1	1C	22	ALA	O-C-N	-6.63	114.47	122.22
1	gq	48	THR	CA-CB-OG1	6.63	119.54	109.60
1	gq	56	LEU	CA-C-N	6.63	130.06	120.38
1	gq	56	LEU	C-N-CA	6.63	130.06	120.38
1	gS	182	LYS	N-CA-C	6.63	118.51	111.28
1	hp	84	HIS	CA-C-N	6.63	128.12	119.84
1	hp	84	HIS	C-N-CA	6.63	128.12	119.84
1	hR	96	MET	O-C-N	-6.63	115.69	123.25
1	iN	56	LEU	N-CA-C	6.63	118.16	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	115	ILE	CA-C-N	6.63	127.48	119.99
1	iY	115	ILE	C-N-CA	6.63	127.48	119.99
1	j3	203	LYS	N-CA-C	6.63	118.50	111.28
1	jn	95	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	jn	175	GLU	CA-C-N	6.63	132.03	122.35
1	jn	175	GLU	C-N-CA	6.63	132.03	122.35
1	k3	101	GLY	CA-C-O	6.63	127.59	120.30
1	k6	86	VAL	O-C-N	-6.63	116.38	123.14
1	kr	209	ALA	N-CA-C	6.63	118.86	110.24
1	lk	134	ILE	N-CA-C	6.63	116.78	110.42
1	2h	86	VAL	CA-C-N	6.63	130.12	120.71
1	2h	86	VAL	C-N-CA	6.63	130.12	120.71
1	2D	133	TRP	O-C-N	-6.63	115.09	122.12
1	2E	195	ASN	N-CA-CB	6.63	118.05	110.03
1	3i	177	ALA	CA-C-N	6.63	131.34	120.94
1	3i	177	ALA	C-N-CA	6.63	131.34	120.94
1	3w	53	ASN	OD1-CG-ND2	-6.63	115.97	122.60
1	3I	64	ALA	N-CA-C	6.63	119.11	111.02
1	3I	194	ALA	O-C-N	-6.63	115.04	122.86
1	4p	154	ARG	NE-CZ-NH1	6.63	128.13	121.50
1	58	128	GLU	CA-C-N	6.63	128.91	120.56
1	58	128	GLU	C-N-CA	6.63	128.91	120.56
1	5V	120	HIS	CA-CB-CG	6.63	120.43	113.80
1	62	113	GLU	CA-C-N	6.63	129.06	120.44
1	62	113	GLU	C-N-CA	6.63	129.06	120.44
1	6g	161	PHE	N-CA-C	6.63	118.16	111.07
1	6K	112	GLN	N-CA-C	6.63	118.50	111.28
1	6V	135	ILE	N-CA-C	6.63	116.78	110.42
1	7f	200	THR	CB-CA-C	6.63	121.79	110.79
1	7G	141	ILE	CA-C-O	6.63	128.20	121.17
1	7K	126	VAL	N-CA-C	6.63	117.42	110.72
1	7V	227	LYS	N-CA-C	6.63	119.28	110.53
1	83	192	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	8d	74	ASN	N-CA-C	6.63	118.16	111.07
1	8m	84	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
1	9v	151	LEU	N-CA-C	-6.63	104.82	113.17
1	9K	219	GLN	CA-C-O	6.63	127.07	119.18
1	a1	161	PHE	CA-C-N	6.63	129.16	120.28
1	a1	161	PHE	C-N-CA	6.63	129.16	120.28
1	ag	72	THR	CA-C-N	6.63	129.88	120.53
1	ag	72	THR	C-N-CA	6.63	129.88	120.53
1	aH	134	ILE	O-C-N	-6.63	115.00	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aO	27	VAL	CA-C-O	6.63	127.63	120.47
1	aQ	57	ASN	CA-CB-CG	-6.63	105.97	112.60
1	aY	200	THR	N-CA-C	6.63	118.59	111.36
1	16	12	HIS	CB-CG-CD2	-6.63	122.58	131.20
1	bg	165	VAL	CB-CA-C	-6.63	103.49	111.97
1	17	144	MET	N-CA-C	6.63	118.50	111.28
1	bo	10	MET	CA-C-N	6.63	130.92	122.37
1	bo	10	MET	C-N-CA	6.63	130.92	122.37
1	cm	227	LYS	CA-C-O	6.63	127.68	120.32
1	cy	93	PRO	N-CA-CB	6.63	109.19	103.36
1	cB	26	VAL	N-CA-C	6.63	116.73	110.30
1	cF	68	MET	CA-C-O	6.63	127.58	120.55
1	cW	176	GLN	CA-C-O	6.63	127.21	119.32
1	1q	50	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	ew	188	THR	CA-C-O	6.63	127.64	120.55
1	fi	156	GLY	CA-C-O	-6.63	112.04	121.52
1	fY	139	ASN	O-C-N	-6.63	115.09	122.12
1	g2	87	HIS	CG-CD2-NE2	6.63	113.83	107.20
1	g7	211	LEU	CA-C-N	6.63	133.32	120.99
1	g7	211	LEU	C-N-CA	6.63	133.32	120.99
1	gl	39	MET	CA-C-O	-6.63	113.86	120.82
1	gm	100	ARG	NH1-CZ-NH2	-6.63	110.69	119.30
1	gJ	133	TRP	CB-CG-CD2	-6.63	117.52	126.80
1	h2	58	THR	N-CA-C	6.63	119.35	111.33
1	hd	13	GLN	O-C-N	-6.63	115.19	123.27
1	hl	173	ARG	NH1-CZ-NH2	-6.63	110.69	119.30
1	ic	161	PHE	O-C-N	-6.63	115.09	122.12
1	io	186	THR	CA-C-N	6.63	129.06	120.44
1	io	186	THR	C-N-CA	6.63	129.06	120.44
1	1W	51	ASP	CA-C-N	6.63	129.06	120.44
1	1W	51	ASP	C-N-CA	6.63	129.06	120.44
1	21	73	ILE	N-CA-CB	6.63	119.55	110.54
1	kq	175	GLU	O-C-N	-6.63	114.73	122.95
1	22	7	GLN	CB-CA-C	-6.63	100.35	111.02
1	kv	155	GLN	OE1-CD-NE2	-6.63	115.97	122.60
1	kB	184	TRP	CB-CG-CD1	-6.63	116.96	126.90
1	kO	140	LYS	O-C-N	-6.63	115.10	122.12
1	lG	164	TYR	N-CA-C	6.63	118.50	111.28
1	lH	185	MET	CA-C-N	6.63	129.49	120.54
1	lH	185	MET	C-N-CA	6.63	129.49	120.54
1	2o	39	MET	CA-C-N	6.63	129.05	120.44
1	2o	39	MET	C-N-CA	6.63	129.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2x	190	LEU	CA-C-N	6.63	128.91	120.56
1	2x	190	LEU	C-N-CA	6.63	128.91	120.56
1	2y	109	SER	N-CA-CB	6.63	121.17	110.77
1	2D	196	PRO	N-CA-C	6.63	126.12	112.47
1	2R	166	ASP	CA-C-O	-6.63	114.04	121.00
1	2T	228	ALA	N-CA-C	6.63	119.84	110.23
1	31	20	LEU	CA-C-O	6.63	127.58	120.55
1	36	64	ALA	CA-C-N	6.63	129.49	120.54
1	36	64	ALA	C-N-CA	6.63	129.49	120.54
1	3a	217	ALA	CA-C-N	6.63	134.13	123.93
1	3a	217	ALA	C-N-CA	6.63	134.13	123.93
1	3l	68	MET	O-C-N	-6.63	115.10	122.12
1	3t	50	GLN	N-CA-C	6.63	118.50	111.28
1	3C	182	LYS	N-CA-C	6.63	118.50	111.28
1	3V	195	ASN	CB-CA-C	6.63	120.33	109.46
1	4h	142	VAL	N-CA-C	6.63	116.78	110.42
1	4n	89	GLY	O-C-N	-6.63	115.14	121.77
1	50	181	VAL	CA-C-N	6.63	129.46	120.38
1	50	181	VAL	C-N-CA	6.63	129.46	120.38
1	54	68	MET	CA-C-O	6.63	127.44	120.42
1	5p	18	ARG	N-CA-C	6.63	118.50	111.28
1	5v	92	GLU	N-CA-C	6.63	119.05	109.84
1	5y	20	LEU	N-CA-C	6.63	118.50	111.28
1	5E	62	HIS	CB-CA-C	-6.63	102.98	111.86
1	5W	48	THR	CA-CB-OG1	6.63	119.54	109.60
1	6q	17	PRO	CA-C-N	6.63	129.16	120.28
1	6q	17	PRO	C-N-CA	6.63	129.16	120.28
1	7d	172	LEU	N-CA-C	6.63	118.50	111.28
1	80	189	LEU	O-C-N	-6.63	114.59	122.15
1	80	200	THR	CA-C-N	6.63	128.91	120.56
1	80	200	THR	C-N-CA	6.63	128.91	120.56
1	81	74	ASN	OD1-CG-ND2	-6.63	115.97	122.60
1	8N	111	LEU	O-C-N	-6.63	114.59	122.15
1	9e	182	LYS	N-CA-C	6.63	118.50	111.28
1	9j	67	GLN	CA-C-N	6.63	129.16	120.28
1	9j	67	GLN	C-N-CA	6.63	129.16	120.28
1	9o	62	HIS	ND1-CG-CD2	6.63	112.73	106.10
1	9r	98	GLU	CA-C-O	-6.63	113.47	120.23
1	9U	130	TYR	CA-C-N	6.63	129.16	120.28
1	9U	130	TYR	C-N-CA	6.63	129.16	120.28
1	9Z	161	PHE	CA-C-O	6.63	127.59	120.10
1	a6	112	GLN	N-CA-CB	6.63	119.86	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	al	44	SER	N-CA-CB	6.63	121.15	111.54
1	aI	226	HIS	CA-CB-CG	6.63	120.43	113.80
1	b0	35	GLU	N-CA-C	6.63	120.46	112.38
1	b2	91	ILE	CB-CA-C	-6.63	101.34	111.08
1	1a	42	ALA	N-CA-C	6.63	118.16	111.07
1	bZ	109	SER	N-CA-C	6.63	119.74	109.07
1	1h	136	LEU	CA-C-N	6.63	127.34	119.98
1	1h	136	LEU	C-N-CA	6.63	127.34	119.98
1	cZ	77	ALA	N-CA-CB	-6.63	100.38	110.12
1	d8	173	ARG	N-CA-C	6.63	124.91	110.80
1	d9	14	ALA	N-CA-C	6.63	119.63	110.35
1	dg	129	ILE	O-C-N	-6.63	114.31	121.80
1	dA	120	HIS	ND1-CE1-NE2	6.63	115.03	108.40
1	dD	167	ARG	CA-C-N	6.63	129.64	120.63
1	dD	167	ARG	C-N-CA	6.63	129.64	120.63
1	dO	204	ALA	CA-C-O	6.63	127.53	119.38
1	1p	30	LYS	O-C-N	-6.63	112.50	121.78
1	ec	117	TRP	N-CA-C	6.63	118.50	111.28
1	ee	177	ALA	N-CA-C	6.63	118.85	110.24
1	eg	120	HIS	CB-CG-CD2	-6.63	122.58	131.20
1	1s	134	ILE	N-CA-C	6.63	119.37	111.09
1	fH	210	THR	N-CA-CB	6.63	119.84	110.36
1	fJ	170	LYS	CA-C-O	-6.63	113.86	120.82
1	g5	33	SER	N-CA-C	-6.63	102.17	108.07
1	f	117	TRP	O-C-N	-6.63	114.60	122.15
1	o	76	GLU	CA-C-O	6.63	127.44	120.42
1	q	110	THR	CA-CB-CG2	6.63	121.76	110.50
1	A	34	PRO	CA-C-N	6.63	129.16	120.28
1	A	34	PRO	C-N-CA	6.63	129.16	120.28
1	gC	95	GLN	N-CA-C	6.62	119.33	109.59
1	gE	13	GLN	OE1-CD-NE2	6.62	129.22	122.60
1	gP	57	ASN	N-CA-C	6.62	118.50	111.28
1	hK	82	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	1R	116	GLY	CA-C-O	-6.62	113.84	121.00
1	iQ	118	MET	CG-SD-CE	-6.62	86.33	100.90
1	ju	87	HIS	CA-C-O	6.62	128.26	120.58
1	kb	162	ARG	CB-CA-C	-6.62	97.95	110.67
1	ku	182	LYS	N-CA-C	6.62	118.50	111.28
1	lw	53	ASN	OD1-CG-ND2	-6.62	115.97	122.60
1	2f	201	ILE	CA-C-N	6.62	129.16	120.28
1	2f	201	ILE	C-N-CA	6.62	129.16	120.28
1	2R	135	ILE	CA-C-N	6.62	129.16	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2R	135	ILE	C-N-CA	6.62	129.16	120.28
1	5t	107	THR	N-CA-C	6.62	118.50	111.28
1	6a	226	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	7p	226	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	7q	74	ASN	O-C-N	-6.62	115.25	122.07
1	7y	182	LYS	N-CA-C	6.62	119.35	111.33
1	7N	92	GLU	CB-CA-C	6.62	120.24	109.97
1	7X	17	PRO	N-CA-CB	6.62	109.62	103.46
1	80	77	ALA	N-CA-C	6.62	118.50	111.28
1	8g	146	SER	CA-C-N	6.62	127.59	120.83
1	8g	146	SER	C-N-CA	6.62	127.59	120.83
1	8K	200	THR	O-C-N	-6.62	114.12	122.27
1	9D	186	THR	CA-C-N	6.62	129.45	120.44
1	9D	186	THR	C-N-CA	6.62	129.45	120.44
1	9W	150	ILE	N-CA-C	6.62	118.17	110.62
1	ar	84	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	cr	136	LEU	CA-C-N	6.62	127.16	119.94
1	cr	136	LEU	C-N-CA	6.62	127.16	119.94
1	cC	95	GLN	OE1-CD-NE2	-6.62	115.97	122.60
1	cG	88	ALA	CA-C-N	6.62	132.27	121.87
1	cG	88	ALA	C-N-CA	6.62	132.27	121.87
1	cH	62	HIS	ND1-CE1-NE2	6.62	115.03	108.40
1	cR	3	VAL	O-C-N	-6.62	116.07	123.03
1	cT	93	PRO	N-CA-C	6.62	121.64	111.11
1	cW	11	VAL	O-C-N	-6.62	115.68	123.03
1	dA	151	LEU	O-C-N	-6.62	113.78	122.39
1	dP	140	LYS	N-CA-C	6.62	119.33	111.71
1	1p	179	GLN	CA-C-N	6.62	129.16	120.28
1	1p	179	GLN	C-N-CA	6.62	129.16	120.28
1	fb	90	PRO	N-CD-CG	6.62	113.14	103.20
1	fd	213	GLU	CA-C-N	6.62	129.39	120.65
1	fd	213	GLU	C-N-CA	6.62	129.39	120.65
1	fH	74	ASN	N-CA-C	6.62	118.50	111.28
1	X	76	GLU	O-C-N	-6.62	115.10	122.12
1	gh	2	ILE	CA-CB-CG1	6.62	121.66	110.40
1	gU	147	PRO	N-CA-CB	6.62	109.23	103.27
1	h6	113	GLU	N-CA-C	6.62	118.50	111.28
1	hu	73	ILE	CB-CA-C	-6.62	103.36	112.24
1	hR	187	GLU	N-CA-C	6.62	118.58	111.36
1	1M	84	HIS	CA-CB-CG	-6.62	107.18	113.80
1	i7	54	THR	CA-CB-CG2	6.62	121.76	110.50
1	ir	84	HIS	CA-C-O	-6.62	113.39	119.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ir	99	PRO	N-CA-CB	-6.62	97.42	103.25
1	iV	63	GLN	N-CA-C	6.62	121.10	112.89
1	j0	209	ALA	CB-CA-C	6.62	121.47	109.62
1	jt	42	ALA	O-C-N	-6.62	114.60	122.15
1	jR	76	GLU	N-CA-C	6.62	118.50	111.28
1	jS	77	ALA	CA-C-O	6.62	127.77	120.82
1	k2	176	GLN	O-C-N	-6.62	114.59	122.27
1	kR	53	ASN	N-CA-CB	6.62	119.86	110.12
1	lb	201	ILE	O-C-N	-6.62	115.44	121.87
1	lf	135	ILE	CA-C-N	6.62	129.05	120.44
1	lf	135	ILE	C-N-CA	6.62	129.05	120.44
1	27	139	ASN	N-CA-C	-6.62	104.14	111.36
1	lM	230	VAL	O-C-N	-6.62	115.45	122.67
1	2h	73	ILE	CA-C-O	6.62	128.19	121.17
1	2N	160	PRO	CA-C-O	6.62	126.48	121.38
1	2O	189	LEU	N-CA-C	6.62	118.50	111.28
1	2Y	153	ILE	O-C-N	-6.62	116.82	122.65
1	38	168	PHE	N-CA-C	6.62	118.16	111.07
1	39	141	ILE	O-C-N	-6.62	115.42	121.91
1	3s	101	GLY	O-C-N	-6.62	115.77	122.19
1	3E	89	GLY	CA-C-N	6.62	126.58	119.76
1	3E	89	GLY	C-N-CA	6.62	126.58	119.76
1	42	172	LEU	N-CA-C	6.62	119.06	111.11
1	4v	32	PHE	O-C-N	6.62	130.41	122.26
1	4v	228	ALA	CA-C-N	6.62	131.18	121.31
1	4v	228	ALA	C-N-CA	6.62	131.18	121.31
1	4E	120	HIS	CG-CD2-NE2	6.62	113.82	107.20
1	4O	27	VAL	CA-C-O	-6.62	113.10	120.25
1	4U	178	SER	N-CA-C	6.62	118.85	110.24
1	5z	100	ARG	O-C-N	-6.62	114.93	122.68
1	5M	8	GLY	CA-C-N	6.62	130.52	121.05
1	5M	8	GLY	C-N-CA	6.62	130.52	121.05
1	5W	227	LYS	CA-C-O	6.62	126.19	118.90
1	5Y	49	PRO	CA-C-N	6.62	129.16	120.28
1	5Y	49	PRO	C-N-CA	6.62	129.16	120.28
1	6V	34	PRO	CA-C-N	6.62	131.29	120.63
1	6V	34	PRO	C-N-CA	6.62	131.29	120.63
1	7h	89	GLY	CA-C-N	6.62	126.54	119.85
1	7h	89	GLY	C-N-CA	6.62	126.54	119.85
1	7r	91	ILE	N-CA-CB	6.62	119.46	111.31
1	7u	87	HIS	O-C-N	-6.62	115.16	123.17
1	7w	146	SER	CA-C-O	-6.62	112.24	118.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7T	76	GLU	CA-C-N	6.62	129.05	120.44
1	7T	76	GLU	C-N-CA	6.62	129.05	120.44
1	7U	123	PRO	N-CA-C	6.62	126.12	112.47
1	8j	62	HIS	ND1-CG-CD2	6.62	112.72	106.10
1	8x	87	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	8C	104	ILE	N-CA-C	6.62	117.41	110.72
1	96	100	ARG	NH1-CZ-NH2	-6.62	110.69	119.30
1	9H	195	ASN	CA-C-O	-6.62	113.28	120.17
1	Z	56	LEU	O-C-N	-6.62	114.12	122.27
1	a8	165	VAL	CA-C-O	-6.62	113.32	120.47
1	ad	41	SER	O-C-N	-6.62	114.60	122.15
1	aC	168	PHE	CA-CB-CG	6.62	120.42	113.80
1	aL	161	PHE	CA-CB-CG	6.62	120.42	113.80
1	aR	77	ALA	N-CA-C	6.62	119.06	111.11
1	aS	156	GLY	CA-C-N	6.62	126.33	119.64
1	aS	156	GLY	C-N-CA	6.62	126.33	119.64
1	bh	78	ALA	CA-C-N	6.62	129.45	120.38
1	bh	78	ALA	C-N-CA	6.62	129.45	120.38
1	bE	177	ALA	CB-CA-C	6.62	118.92	109.71
1	bR	6	LEU	O-C-N	-6.62	114.60	122.15
1	c3	159	GLU	N-CA-C	6.62	121.43	109.44
1	c7	27	VAL	CA-C-O	6.62	127.87	120.85
1	cb	39	MET	N-CA-C	6.62	119.34	111.33
1	cB	220	GLY	O-C-N	-6.62	115.26	122.41
1	cN	137	GLY	CA-C-N	6.62	129.45	120.44
1	cN	137	GLY	C-N-CA	6.62	129.45	120.44
1	dK	111	LEU	N-CA-C	6.62	118.50	111.28
1	dR	10	MET	CG-SD-CE	-6.62	86.33	100.90
1	ep	98	GLU	CA-C-O	-6.62	114.36	119.46
1	eu	42	ALA	O-C-N	-6.62	115.10	122.12
1	eD	195	ASN	CA-C-N	6.62	126.07	118.85
1	eD	195	ASN	C-N-CA	6.62	126.07	118.85
1	fc	180	GLU	O-C-N	-6.62	115.10	122.12
1	fP	200	THR	O-C-N	-6.62	115.10	122.12
1	g6	213	GLU	N-CA-C	6.62	118.50	111.28
1	f	10	MET	CA-C-N	6.62	131.19	122.51
1	f	10	MET	C-N-CA	6.62	131.19	122.51
1	i	161	PHE	CA-CB-CG	-6.62	107.18	113.80
1	w	187	GLU	O-C-N	-6.62	115.25	122.07
1	D	139	ASN	OD1-CG-ND2	-6.62	115.98	122.60
1	F	70	LYS	N-CA-C	6.62	118.50	111.28
1	T	91	ILE	O-C-N	-6.62	115.72	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	U	98	GLU	N-CA-C	6.62	121.17	109.58
1	1D	191	VAL	N-CA-C	6.62	118.51	112.29
1	gD	34	PRO	N-CA-C	6.62	122.25	113.57
1	gL	186	THR	N-CA-CB	6.62	119.61	110.01
1	gS	185	MET	O-C-N	6.62	129.14	122.12
1	gT	130	TYR	CA-C-N	6.62	129.15	120.28
1	gT	130	TYR	C-N-CA	6.62	129.15	120.28
1	hx	173	ARG	N-CA-C	6.62	120.62	112.54
1	hG	101	GLY	O-C-N	-6.62	115.83	122.19
1	hK	81	ASP	CB-CG-OD1	6.62	133.63	118.40
1	hL	113	GLU	O-C-N	-6.62	115.25	122.07
1	hO	162	ARG	O-C-N	-6.62	115.10	122.12
1	hV	129	ILE	N-CA-CB	6.62	118.30	110.55
1	ig	172	LEU	CA-C-N	6.62	129.45	120.38
1	ig	172	LEU	C-N-CA	6.62	129.45	120.38
1	ih	37	ILE	CA-C-N	6.62	126.07	118.85
1	ih	37	ILE	C-N-CA	6.62	126.07	118.85
1	il	190	LEU	N-CA-C	6.62	118.50	111.28
1	ir	145	TYR	CA-C-O	6.62	128.69	120.15
1	iu	156	GLY	O-C-N	-6.62	115.15	121.77
1	1Q	82	ARG	NE-CZ-NH2	-6.62	113.24	119.20
1	iz	163	ASP	CA-C-N	6.62	129.48	120.54
1	iz	163	ASP	C-N-CA	6.62	129.48	120.54
1	jp	14	ALA	CA-C-O	-6.62	114.34	121.56
1	jx	185	MET	N-CA-C	6.62	119.34	111.33
1	jI	96	MET	N-CA-C	6.62	119.83	110.50
1	jO	154	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	jZ	184	TRP	CA-C-N	6.62	129.69	120.29
1	jZ	184	TRP	C-N-CA	6.62	129.69	120.29
1	k9	26	VAL	O-C-N	-6.62	115.45	121.87
1	kd	9	GLN	N-CA-C	-6.62	101.61	111.81
1	km	133	TRP	CB-CG-CD2	-6.62	117.53	126.80
1	22	26	VAL	CA-C-N	6.62	129.82	120.42
1	22	26	VAL	C-N-CA	6.62	129.82	120.42
1	ku	122	PRO	N-CA-CB	6.62	109.89	102.60
1	lp	192	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	lI	217	ALA	CA-C-N	6.62	132.00	122.40
1	lI	217	ALA	C-N-CA	6.62	132.00	122.40
1	2a	23	TRP	N-CA-C	6.62	118.19	110.97
1	2b	3	VAL	CB-CA-C	6.62	120.05	110.98
1	2t	183	ASN	OD1-CG-ND2	-6.62	115.98	122.60
1	2v	180	GLU	N-CA-C	6.62	118.16	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2B	44	SER	CA-C-O	6.62	127.29	119.28
1	2I	173	ARG	N-CA-C	6.62	119.33	111.71
1	2P	32	PHE	CA-C-O	-6.62	113.14	120.69
1	30	91	ILE	CA-C-N	6.62	130.73	120.60
1	30	91	ILE	C-N-CA	6.62	130.73	120.60
1	3i	189	LEU	N-CA-C	6.62	118.50	111.28
1	3z	76	GLU	N-CA-C	6.62	118.15	111.07
1	3A	198	CYS	N-CA-CB	6.62	119.61	110.01
1	3J	63	GLN	N-CA-C	6.62	118.16	111.07
1	3Z	165	VAL	O-C-N	-6.62	115.45	121.87
1	4d	124	ILE	O-C-N	-6.62	113.55	121.10
1	4F	164	TYR	CA-C-N	6.62	129.87	120.53
1	4F	164	TYR	C-N-CA	6.62	129.87	120.53
1	5h	187	GLU	CA-C-O	6.62	127.44	120.42
1	5p	209	ALA	N-CA-C	6.62	119.58	110.24
1	5D	75	GLU	N-CA-CB	-6.62	100.02	110.28
1	61	155	GLN	OE1-CD-NE2	6.62	129.22	122.60
1	6g	162	ARG	NE-CZ-NH2	-6.62	113.24	119.20
1	6N	178	SER	N-CA-C	6.62	119.94	109.81
1	6T	180	GLU	N-CA-C	6.62	119.34	111.33
1	70	27	VAL	N-CA-C	6.62	117.37	110.62
1	7a	104	ILE	O-C-N	-6.62	115.45	121.87
1	7a	147	PRO	N-CA-C	-6.62	107.04	114.92
1	7f	56	LEU	CA-C-O	6.62	127.57	120.55
1	7I	117	TRP	CA-C-N	6.62	130.38	120.31
1	7I	117	TRP	C-N-CA	6.62	130.38	120.31
1	7W	213	GLU	N-CA-C	6.62	118.50	111.28
1	7Y	120	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	80	54	THR	CA-C-N	6.62	129.48	120.54
1	80	54	THR	C-N-CA	6.62	129.48	120.54
1	88	227	LYS	CA-C-O	6.62	127.20	119.32
1	8l	79	GLU	CA-C-O	-6.62	113.53	120.55
1	8z	206	GLY	O-C-N	-6.62	115.15	121.77
1	8U	23	TRP	CA-C-N	6.62	129.14	120.60
1	8U	23	TRP	C-N-CA	6.62	129.14	120.60
1	9y	116	GLY	CA-C-O	-6.62	113.93	120.75
1	9z	5	ASN	CA-C-O	6.62	126.42	119.14
1	a0	121	ASN	CA-CB-CG	-6.62	105.98	112.60
1	a9	181	VAL	N-CA-CB	6.62	120.51	110.58
1	11	39	MET	CA-C-N	6.62	130.75	120.82
1	11	39	MET	C-N-CA	6.62	130.75	120.82
1	aK	101	GLY	O-C-N	-6.62	115.83	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aR	198	CYS	CA-C-O	6.62	127.44	120.42
1	b6	103	ASP	CA-C-N	6.62	129.82	120.42
1	b6	103	ASP	C-N-CA	6.62	129.82	120.42
1	b9	164	TYR	N-CA-C	-6.62	105.02	113.23
1	bE	83	LEU	N-CA-C	6.62	118.50	111.28
1	bG	185	MET	N-CA-C	6.62	118.50	111.28
1	bS	229	ARG	NH1-CZ-NH2	-6.62	110.69	119.30
1	d8	66	MET	CA-C-N	6.62	129.05	120.44
1	d8	66	MET	C-N-CA	6.62	129.05	120.44
1	d9	18	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	db	100	ARG	N-CA-C	-6.62	99.35	109.41
1	dd	162	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	do	131	LYS	N-CA-C	6.62	119.50	111.82
1	dp	89	GLY	CA-C-N	6.62	128.12	119.84
1	dp	89	GLY	C-N-CA	6.62	128.12	119.84
1	dE	120	HIS	CG-CD2-NE2	6.62	113.82	107.20
1	dJ	137	GLY	CA-C-N	6.62	129.05	120.44
1	dJ	137	GLY	C-N-CA	6.62	129.05	120.44
1	dQ	99	PRO	CA-C-O	-6.62	114.14	121.23
1	dZ	80	TRP	O-C-N	-6.62	115.10	122.12
1	dZ	195	ASN	CA-C-N	6.62	128.12	119.84
1	dZ	195	ASN	C-N-CA	6.62	128.12	119.84
1	e5	67	GLN	N-CA-C	6.62	118.50	111.28
1	1p	148	THR	N-CA-C	6.62	119.58	110.24
1	eO	78	ALA	CB-CA-C	6.62	121.78	110.79
1	fQ	70	LYS	N-CA-CB	6.62	119.81	109.94
1	fR	203	LYS	O-C-N	-6.62	113.46	122.33
1	fU	82	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	c	94	GLY	O-C-N	-6.62	114.11	122.32
1	t	139	ASN	N-CA-CB	-6.62	100.41	110.01
1	z	64	ALA	N-CA-C	6.62	118.50	111.28
1	S	226	HIS	N-CA-C	6.62	119.83	110.23
1	T	5	ASN	CA-CB-CG	6.62	119.22	112.60
1	hv	190	LEU	N-CA-C	6.62	119.32	111.71
1	iz	96	MET	O-C-N	-6.62	114.67	122.81
1	iN	150	ILE	N-CA-C	-6.62	105.19	112.80
1	jA	143	ARG	N-CA-C	6.62	119.05	111.11
1	jP	221	VAL	CA-C-N	6.62	131.65	121.45
1	jP	221	VAL	C-N-CA	6.62	131.65	121.45
1	1Y	143	ARG	CA-C-N	6.62	129.15	120.28
1	1Y	143	ARG	C-N-CA	6.62	129.15	120.28
1	kd	95	GLN	OE1-CD-NE2	6.62	129.22	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kU	178	SER	CA-C-O	-6.62	114.53	121.55
1	kX	63	GLN	OE1-CD-NE2	6.62	129.22	122.60
1	l5	197	ASP	N-CA-CB	-6.62	100.39	110.12
1	2C	179	GLN	O-C-N	6.62	129.97	122.22
1	2S	68	MET	N-CA-CB	6.62	119.85	110.12
1	3s	180	GLU	N-CA-C	6.62	118.50	111.28
1	3F	25	LYS	N-CA-C	6.62	118.50	111.28
1	3Q	8	GLY	CA-C-O	6.62	132.09	120.57
1	3S	183	ASN	O-C-N	-6.62	114.94	122.09
1	4e	62	HIS	ND1-CG-CD2	6.62	112.72	106.10
1	53	30	LYS	CA-C-O	6.62	126.33	119.05
1	57	105	ALA	N-CA-CB	-6.62	100.84	110.70
1	5Z	159	GLU	N-CA-C	6.62	117.21	109.60
1	75	199	LYS	CA-C-O	6.62	127.44	120.42
1	7D	95	GLN	CA-C-O	-6.62	113.86	121.47
1	8z	200	THR	CA-C-O	6.62	127.57	120.55
1	8H	166	ASP	N-CA-C	6.62	119.05	111.11
1	bx	165	VAL	CA-C-N	6.62	129.05	120.44
1	bx	165	VAL	C-N-CA	6.62	129.05	120.44
1	bM	206	GLY	CA-C-N	6.62	126.31	119.56
1	bM	206	GLY	C-N-CA	6.62	126.31	119.56
1	cd	180	GLU	N-CA-CB	6.62	119.80	109.94
1	ct	37	ILE	CA-C-O	6.62	123.12	118.69
1	ep	120	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	eU	22	ALA	CA-C-N	6.62	129.05	120.44
1	eU	22	ALA	C-N-CA	6.62	129.05	120.44
1	fI	94	GLY	O-C-N	-6.62	114.09	122.70
1	fU	195	ASN	O-C-N	-6.62	113.71	121.32
1	E	229	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	I	20	LEU	CA-C-N	6.62	129.05	120.44
1	I	20	LEU	C-N-CA	6.62	129.05	120.44
1	gv	86	VAL	CA-CB-CG2	6.62	121.65	110.40
1	gv	95	GLN	O-C-N	-6.62	114.24	123.11
1	gK	108	THR	O-C-N	-6.62	114.40	122.34
1	h1	109	SER	N-CA-CB	6.62	121.80	110.68
1	hi	57	ASN	CA-C-N	6.62	129.69	120.29
1	hi	57	ASN	C-N-CA	6.62	129.69	120.29
1	hL	214	MET	O-C-N	-6.62	115.00	122.08
1	hM	193	ASN	CA-CB-CG	6.62	119.22	112.60
1	j9	166	ASP	CB-CA-C	6.62	121.27	110.88
1	jb	2	ILE	CB-CA-C	6.62	120.74	111.34
1	jr	32	PHE	CA-CB-CG	-6.62	107.18	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jJ	115	ILE	CA-C-N	6.62	127.47	119.99
1	jJ	115	ILE	C-N-CA	6.62	127.47	119.99
1	jP	202	LEU	O-C-N	-6.62	115.10	122.12
1	kC	112	GLN	CA-C-N	6.62	129.44	120.44
1	kC	112	GLN	C-N-CA	6.62	129.44	120.44
1	kS	16	SER	O-C-N	-6.62	114.97	121.19
1	kT	51	ASP	CA-CB-CG	-6.62	105.98	112.60
1	kV	96	MET	N-CA-C	6.62	118.84	110.24
1	l3	112	GLN	O-C-N	-6.62	114.48	122.22
1	lb	161	PHE	CA-CB-CG	6.62	120.42	113.80
1	ld	171	THR	N-CA-C	6.62	118.15	111.07
1	lx	174	ALA	O-C-N	-6.62	115.11	122.12
1	lR	26	VAL	CA-C-O	6.62	127.83	120.95
1	2e	196	PRO	CA-C-N	6.62	129.15	120.28
1	2e	196	PRO	C-N-CA	6.62	129.15	120.28
1	2V	102	SER	CA-C-N	6.62	129.15	120.28
1	2V	102	SER	C-N-CA	6.62	129.15	120.28
1	3b	76	GLU	N-CA-C	6.62	118.57	111.36
1	3w	86	VAL	CA-C-N	6.62	134.18	121.54
1	3w	86	VAL	C-N-CA	6.62	134.18	121.54
1	3H	70	LYS	N-CA-C	6.62	118.29	111.14
1	3U	29	GLU	CB-CG-CD	6.62	123.85	112.60
1	48	12	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	4Z	100	ARG	NH1-CZ-NH2	-6.62	110.70	119.30
1	5f	87	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	5j	84	HIS	CA-C-O	-6.62	114.23	119.99
1	5n	84	HIS	CB-CG-ND1	6.62	132.63	122.70
1	5A	32	PHE	CA-CB-CG	-6.62	107.18	113.80
1	5I	51	ASP	CA-C-N	6.62	129.15	120.28
1	5I	51	ASP	C-N-CA	6.62	129.15	120.28
1	6j	193	ASN	CA-C-N	6.62	131.33	120.94
1	6j	193	ASN	C-N-CA	6.62	131.33	120.94
1	6o	177	ALA	N-CA-C	6.62	118.84	110.24
1	6H	50	GLN	N-CA-C	6.62	119.32	111.71
1	6T	176	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	79	34	PRO	CA-C-N	6.62	131.77	120.72
1	79	34	PRO	C-N-CA	6.62	131.77	120.72
1	7C	82	ARG	NH1-CZ-NH2	-6.62	110.70	119.30
1	7E	4	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	7Q	161	PHE	CA-CB-CG	-6.62	107.18	113.80
1	8s	52	LEU	CA-C-O	6.62	127.44	120.42
1	8x	207	PRO	N-CA-C	-6.62	107.80	114.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	171	THR	N-CA-C	6.62	118.58	111.36
1	9x	171	THR	N-CA-C	6.62	118.57	111.36
1	9Q	217	ALA	O-C-N	-6.62	115.25	122.79
1	9Z	170	LYS	CB-CA-C	6.62	121.78	110.79
1	a5	115	ILE	CA-C-N	6.62	127.28	120.00
1	a5	115	ILE	C-N-CA	6.62	127.28	120.00
1	ab	165	VAL	CA-C-N	6.62	129.15	120.28
1	ab	165	VAL	C-N-CA	6.62	129.15	120.28
1	af	61	GLY	CA-C-N	6.62	131.79	122.46
1	af	61	GLY	C-N-CA	6.62	131.79	122.46
1	aN	13	GLN	N-CA-C	-6.62	99.04	109.50
1	b7	194	ALA	N-CA-C	6.62	119.35	110.35
1	bg	135	ILE	CA-C-N	6.62	129.15	120.28
1	bg	135	ILE	C-N-CA	6.62	129.15	120.28
1	bT	137	GLY	CA-C-N	6.62	129.15	120.28
1	bT	137	GLY	C-N-CA	6.62	129.15	120.28
1	bV	121	ASN	CB-CA-C	6.62	121.01	110.62
1	cB	167	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	cP	171	THR	O-C-N	-6.62	114.13	122.27
1	cU	85	PRO	CA-C-N	6.62	131.15	120.30
1	cU	85	PRO	C-N-CA	6.62	131.15	120.30
1	d9	111	LEU	O-C-N	-6.62	115.10	122.12
1	dw	159	GLU	N-CA-C	6.62	119.01	109.48
1	1o	27	VAL	CB-CA-C	6.62	120.69	112.02
1	eV	191	VAL	CA-C-N	6.62	129.69	120.29
1	eV	191	VAL	C-N-CA	6.62	129.69	120.29
1	eV	207	PRO	N-CA-CB	6.62	109.63	103.41
1	f0	229	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	fb	81	ASP	CA-C-N	6.62	129.15	120.28
1	fb	81	ASP	C-N-CA	6.62	129.15	120.28
1	fb	97	ARG	NE-CZ-NH2	-6.62	113.24	119.20
1	fd	37	ILE	N-CA-CB	6.62	120.48	111.21
1	fh	67	GLN	CA-C-N	6.62	129.45	120.38
1	fh	67	GLN	C-N-CA	6.62	129.45	120.38
1	fG	84	HIS	O-C-N	-6.62	112.64	121.64
1	fH	2	ILE	O-C-N	-6.62	115.68	123.03
1	fX	40	PHE	CA-C-O	6.62	127.77	120.82
1	g6	56	LEU	CA-C-O	6.62	127.58	120.10
1	8	9	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	8	87	HIS	CA-CB-CG	6.62	120.42	113.80
1	gI	159	GLU	O-C-N	-6.62	114.66	121.28
1	gL	58	THR	OG1-CB-CG2	-6.62	96.07	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	67	GLN	N-CA-C	6.62	118.49	111.28
1	hu	117	TRP	CE2-CD2-CE3	6.62	125.42	118.80
1	hJ	116	GLY	CA-C-N	6.62	129.04	120.44
1	hJ	116	GLY	C-N-CA	6.62	129.04	120.44
1	ij	84	HIS	CB-CA-C	-6.62	101.26	110.13
1	iB	154	ARG	O-C-N	-6.62	115.52	123.13
1	j7	192	GLN	O-C-N	-6.62	115.25	122.07
1	l6	185	MET	CG-SD-CE	-6.62	86.34	100.90
1	2y	82	ARG	NE-CZ-NH2	-6.62	113.24	119.20
1	2J	12	HIS	CE1-NE2-CD2	-6.62	102.38	109.00
1	5t	180	GLU	N-CA-C	6.62	118.57	111.36
1	66	37	ILE	O-C-N	-6.62	113.56	121.10
1	6I	183	ASN	N-CA-C	6.62	118.49	111.28
1	78	209	ALA	CA-C-O	6.62	128.17	120.96
1	7v	165	VAL	CA-C-N	6.62	129.04	120.44
1	7v	165	VAL	C-N-CA	6.62	129.04	120.44
1	7F	113	GLU	N-CA-C	6.62	118.49	111.28
1	7G	21	ASN	CA-C-N	6.62	129.15	120.28
1	7G	21	ASN	C-N-CA	6.62	129.15	120.28
1	8i	214	MET	CA-C-N	6.62	129.15	120.28
1	8i	214	MET	C-N-CA	6.62	129.15	120.28
1	8y	226	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	95	170	LYS	N-CA-CB	6.62	119.61	110.01
1	b7	96	MET	CA-C-N	6.62	130.11	120.71
1	b7	96	MET	C-N-CA	6.62	130.11	120.71
1	16	204	ALA	O-C-N	-6.62	114.61	122.15
1	b8	84	HIS	CA-C-O	-6.62	114.09	120.64
1	19	70	LYS	CB-CA-C	6.62	121.93	110.68
1	c6	188	THR	N-CA-CB	6.62	121.67	110.49
1	cd	176	GLN	N-CA-CB	6.62	119.82	109.83
1	co	115	ILE	CA-C-N	6.62	127.44	120.03
1	co	115	ILE	C-N-CA	6.62	127.44	120.03
1	dw	84	HIS	CA-C-O	-6.62	113.29	120.17
1	dC	12	HIS	CG-CD2-NE2	6.62	113.82	107.20
1	e6	100	ARG	CD-NE-CZ	6.62	133.66	124.40
1	eE	218	CYS	CA-C-N	6.62	134.18	121.54
1	eE	218	CYS	C-N-CA	6.62	134.18	121.54
1	f1	184	TRP	CA-C-N	6.62	129.15	120.28
1	f1	184	TRP	C-N-CA	6.62	129.15	120.28
1	f7	168	PHE	N-CA-C	6.62	118.15	111.07
1	1v	100	ARG	NH1-CZ-NH2	-6.62	110.70	119.30
1	v	214	MET	CA-C-N	6.62	129.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	v	214	MET	C-N-CA	6.62	129.15	120.28
1	g9	207	PRO	N-CA-C	6.62	123.38	114.18
1	gh	16	SER	CA-C-O	-6.62	113.87	119.76
1	1D	57	ASN	N-CA-CB	-6.62	100.41	110.33
1	hM	205	LEU	N-CA-C	6.62	118.49	111.28
1	hN	136	LEU	O-C-N	-6.62	115.11	122.12
1	hR	19	THR	CA-C-O	6.62	127.56	120.55
1	hW	111	LEU	N-CA-C	6.62	119.49	111.82
1	i2	217	ALA	N-CA-C	6.62	119.57	110.24
1	ig	187	GLU	N-CA-C	6.62	119.05	111.11
1	iM	153	ILE	N-CA-C	6.62	116.76	107.37
1	iQ	143	ARG	NE-CZ-NH2	-6.62	113.25	119.20
1	iR	97	ARG	NE-CZ-NH2	6.62	125.15	119.20
1	iX	34	PRO	CA-C-N	6.62	130.04	120.38
1	iX	34	PRO	C-N-CA	6.62	130.04	120.38
1	j7	66	MET	CA-C-O	-6.62	112.36	119.97
1	jj	225	GLY	CA-C-N	6.62	133.38	122.73
1	jj	225	GLY	C-N-CA	6.62	133.38	122.73
1	jp	73	ILE	CA-C-N	6.62	129.14	120.28
1	jp	73	ILE	C-N-CA	6.62	129.14	120.28
1	ks	155	GLN	CG-CD-OE1	6.62	134.03	120.80
1	kt	108	THR	CA-CB-CG2	-6.62	99.25	110.50
1	ku	95	GLN	N-CA-C	6.62	120.84	110.32
1	l2	42	ALA	N-CA-C	6.62	118.49	111.28
1	l4	118	MET	N-CA-C	6.62	119.32	111.71
1	l5	170	LYS	O-C-N	-6.62	115.11	122.12
1	ln	126	VAL	N-CA-C	6.62	116.77	110.42
1	lD	191	VAL	N-CA-C	6.62	117.37	110.62
1	2a	194	ALA	CA-C-N	6.62	130.72	120.60
1	2a	194	ALA	C-N-CA	6.62	130.72	120.60
1	lQ	84	HIS	CB-CG-CD2	-6.62	122.60	131.20
1	2d	156	GLY	O-C-N	-6.62	115.15	121.77
1	2d	201	ILE	N-CA-C	6.62	116.77	110.42
1	2f	51	ASP	N-CA-C	6.62	119.33	111.33
1	2q	146	SER	N-CA-C	6.62	117.21	109.60
1	2x	69	LEU	N-CA-C	6.62	118.15	111.07
1	39	214	MET	N-CA-C	6.62	118.49	111.28
1	3l	179	GLN	OE1-CD-NE2	6.62	129.22	122.60
1	3D	165	VAL	N-CA-C	6.62	116.77	110.42
1	3E	200	THR	CA-C-N	6.62	129.52	120.46
1	3E	200	THR	C-N-CA	6.62	129.52	120.46
1	3K	63	GLN	OE1-CD-NE2	-6.62	115.98	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3V	109	SER	O-C-N	-6.62	115.48	123.29
1	3Z	58	THR	N-CA-C	-6.62	104.47	112.54
1	41	100	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	41	110	THR	CA-C-N	6.62	129.44	120.38
1	41	110	THR	C-N-CA	6.62	129.44	120.38
1	46	229	ARG	NE-CZ-NH2	-6.62	113.25	119.20
1	48	120	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	4f	11	VAL	N-CA-C	6.62	117.01	107.88
1	4U	120	HIS	CE1-NE2-CD2	-6.62	102.39	109.00
1	4V	152	ASP	CA-CB-CG	6.62	119.22	112.60
1	4Z	60	GLY	CA-C-N	6.62	129.11	122.30
1	4Z	60	GLY	C-N-CA	6.62	129.11	122.30
1	56	27	VAL	CA-C-N	6.62	129.44	120.38
1	56	27	VAL	C-N-CA	6.62	129.44	120.38
1	5a	124	ILE	CA-C-O	-6.62	112.68	119.89
1	5A	120	HIS	ND1-CE1-NE2	6.62	115.02	108.40
1	5L	108	THR	CA-CB-OG1	6.62	119.52	109.60
1	5U	89	GLY	CA-C-N	6.62	128.11	119.84
1	5U	89	GLY	C-N-CA	6.62	128.11	119.84
1	5V	30	LYS	O-C-N	-6.62	114.19	122.19
1	61	132	ARG	NE-CZ-NH1	6.62	128.12	121.50
1	76	12	HIS	CA-C-O	6.62	128.14	120.80
1	7c	124	ILE	CB-CA-C	6.62	118.46	110.85
1	7n	226	HIS	ND1-CG-CD2	6.62	112.72	106.10
1	7H	203	LYS	CA-C-N	6.62	129.14	120.28
1	7H	203	LYS	C-N-CA	6.62	129.14	120.28
1	7M	132	ARG	NE-CZ-NH2	6.62	125.15	119.20
1	7U	153	ILE	N-CA-C	6.62	117.57	109.30
1	8k	70	LYS	N-CA-C	6.62	119.32	111.71
1	8z	197	ASP	CA-CB-CG	-6.62	105.98	112.60
1	8L	104	ILE	CA-C-O	6.62	127.86	120.85
1	9t	120	HIS	CE1-NE2-CD2	-6.62	102.39	109.00
1	9C	173	ARG	N-CA-C	6.62	118.49	111.28
1	9W	139	ASN	CA-CB-CG	6.62	119.22	112.60
1	9Z	93	PRO	N-CA-C	6.62	126.10	112.47
1	ar	219	GLN	O-C-N	-6.62	114.82	123.16
1	12	37	ILE	N-CA-C	6.62	122.20	112.61
1	aJ	136	LEU	N-CA-C	6.62	118.49	111.28
1	b2	229	ARG	N-CA-CB	6.62	123.41	111.37
1	bm	120	HIS	CA-CB-CG	-6.62	107.19	113.80
1	bs	91	ILE	CA-CB-CG1	6.62	121.64	110.40
1	bw	186	THR	O-C-N	-6.62	114.61	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	50	GLN	N-CA-C	6.62	119.05	111.11
1	bX	183	ASN	CA-C-N	6.62	129.15	120.28
1	bX	183	ASN	C-N-CA	6.62	129.15	120.28
1	ci	92	GLU	N-CA-C	6.62	117.98	109.65
1	d2	166	ASP	CA-C-N	6.62	129.15	120.28
1	d2	166	ASP	C-N-CA	6.62	129.15	120.28
1	dp	140	LYS	CA-C-N	6.62	128.90	120.56
1	dp	140	LYS	C-N-CA	6.62	128.90	120.56
1	ea	39	MET	CA-C-O	-6.62	113.41	120.42
1	eg	211	LEU	CA-C-O	6.62	127.51	119.31
1	eR	192	GLN	CB-CG-CD	6.62	123.84	112.60
1	eW	92	GLU	CA-C-N	6.62	128.11	119.84
1	eW	92	GLU	C-N-CA	6.62	128.11	119.84
1	1u	40	PHE	CA-C-O	6.62	127.43	120.42
1	fd	67	GLN	OE1-CD-NE2	-6.62	115.98	122.60
1	fy	227	LYS	CA-C-O	6.62	127.05	119.18
1	fI	139	ASN	CA-C-N	6.62	129.14	120.28
1	fI	139	ASN	C-N-CA	6.62	129.14	120.28
1	1z	112	GLN	O-C-N	-6.62	115.11	122.12
1	fX	229	ARG	N-CA-C	6.62	119.35	110.35
1	f	84	HIS	CG-CD2-NE2	6.62	113.81	107.20
1	j	87	HIS	CE1-NE2-CD2	-6.62	102.39	109.00
1	k	52	LEU	CA-C-N	6.62	129.15	120.28
1	k	52	LEU	C-N-CA	6.62	129.15	120.28
1	m	65	ALA	CA-C-N	6.62	129.15	120.28
1	m	65	ALA	C-N-CA	6.62	129.15	120.28
1	L	160	PRO	CA-C-N	6.62	129.14	120.28
1	L	160	PRO	C-N-CA	6.62	129.14	120.28
1	6	146	SER	N-CA-C	6.62	118.04	109.64
1	gl	226	HIS	CA-CB-CG	6.61	120.41	113.80
1	1F	128	GLU	CA-C-N	6.61	128.89	120.56
1	1F	128	GLU	C-N-CA	6.61	128.89	120.56
1	gQ	227	LYS	O-C-N	-6.61	113.02	122.41
1	hz	22	ALA	N-CA-CB	6.61	119.60	110.01
1	hQ	15	ILE	N-CA-C	6.61	117.96	109.30
1	i1	188	THR	N-CA-CB	6.61	121.67	110.49
1	ij	143	ARG	NH1-CZ-NH2	-6.61	110.70	119.30
1	iO	71	GLU	N-CA-C	6.61	118.49	111.28
1	j1	10	MET	N-CA-C	6.61	119.61	110.35
1	jf	65	ALA	O-C-N	-6.61	115.11	122.12
1	jq	132	ARG	N-CA-C	6.61	118.49	111.28
1	jq	207	PRO	N-CA-C	6.61	121.60	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jB	4	GLN	CA-C-O	6.61	126.02	119.08
1	jL	81	ASP	CA-CB-CG	-6.61	105.99	112.60
1	kd	167	ARG	CA-CB-CG	6.61	127.33	114.10
1	kw	174	ALA	CA-C-O	6.61	126.42	119.14
1	ky	132	ARG	NH1-CZ-NH2	-6.61	110.70	119.30
1	23	117	TRP	CA-C-O	6.61	127.57	120.10
1	kR	52	LEU	CA-C-O	-6.61	113.89	120.70
1	kX	195	ASN	CA-C-N	6.61	126.12	119.24
1	kX	195	ASN	C-N-CA	6.61	126.12	119.24
1	ln	135	ILE	N-CA-C	6.61	118.16	110.62
1	2d	138	LEU	CA-C-N	6.61	129.04	120.44
1	2d	138	LEU	C-N-CA	6.61	129.04	120.44
1	2t	168	PHE	CA-C-N	6.61	129.04	120.44
1	2t	168	PHE	C-N-CA	6.61	129.04	120.44
1	2v	152	ASP	CA-C-N	6.61	129.54	120.35
1	2v	152	ASP	C-N-CA	6.61	129.54	120.35
1	2R	229	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	31	164	TYR	CA-C-N	6.61	129.52	120.46
1	31	164	TYR	C-N-CA	6.61	129.52	120.46
1	38	9	GLN	CA-C-N	6.61	131.16	121.31
1	38	9	GLN	C-N-CA	6.61	131.16	121.31
1	3J	13	GLN	CA-C-N	6.61	130.23	120.90
1	3J	13	GLN	C-N-CA	6.61	130.23	120.90
1	3M	160	PRO	N-CA-CB	-6.61	97.77	103.32
1	3P	230	VAL	N-CA-C	6.61	118.11	109.58
1	4v	179	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	4w	39	MET	CA-C-O	6.61	127.76	120.82
1	4I	181	VAL	CA-C-N	6.61	129.04	120.44
1	4I	181	VAL	C-N-CA	6.61	129.04	120.44
1	4M	43	LEU	CA-C-N	6.61	132.87	122.49
1	4M	43	LEU	C-N-CA	6.61	132.87	122.49
1	5Q	201	ILE	O-C-N	-6.61	115.02	121.83
1	5S	57	ASN	CA-C-N	6.61	130.03	120.38
1	5S	57	ASN	C-N-CA	6.61	130.03	120.38
1	5S	71	GLU	CA-C-N	6.61	129.68	120.29
1	5S	71	GLU	C-N-CA	6.61	129.68	120.29
1	5W	77	ALA	CA-C-N	6.61	129.04	120.44
1	5W	77	ALA	C-N-CA	6.61	129.04	120.44
1	67	192	GLN	N-CA-C	6.61	124.89	110.80
1	6S	121	ASN	CA-CB-CG	-6.61	105.99	112.60
1	70	96	MET	CA-C-N	6.61	130.74	120.75
1	70	96	MET	C-N-CA	6.61	130.74	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	126	VAL	N-CA-C	6.61	119.32	111.05
1	7P	56	LEU	N-CA-CB	-6.61	100.40	110.12
1	8J	120	HIS	CA-C-O	-6.61	114.54	121.55
1	8M	111	LEU	CA-C-N	6.61	130.36	120.31
1	8M	111	LEU	C-N-CA	6.61	130.36	120.31
1	8P	218	CYS	CA-C-O	6.61	129.18	120.98
1	99	16	SER	N-CA-C	6.61	118.23	109.83
1	9g	53	ASN	OD1-CG-ND2	-6.61	115.99	122.60
1	9Q	193	ASN	CA-CB-CG	-6.61	105.99	112.60
1	14	55	MET	CG-SD-CE	-6.61	86.35	100.90
1	aR	47	ALA	CA-C-O	6.61	128.42	120.81
1	aU	193	ASN	OD1-CG-ND2	-6.61	115.99	122.60
1	aY	143	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	bl	104	ILE	O-C-N	-6.61	115.45	121.87
1	cb	61	GLY	N-CA-C	6.61	122.63	112.51
1	cj	223	GLY	O-C-N	-6.61	115.16	121.77
1	1e	111	LEU	N-CA-C	6.61	119.33	111.33
1	d1	223	GLY	CA-C-N	6.61	126.06	118.85
1	d1	223	GLY	C-N-CA	6.61	126.06	118.85
1	d7	41	SER	CA-C-N	6.61	129.14	120.28
1	d7	41	SER	C-N-CA	6.61	129.14	120.28
1	dd	84	HIS	CA-C-N	6.61	128.11	119.84
1	dd	84	HIS	C-N-CA	6.61	128.11	119.84
1	de	40	PHE	CA-C-O	6.61	127.77	120.63
1	e0	2	ILE	O-C-N	-6.61	115.46	122.67
1	e8	195	ASN	N-CA-C	6.61	119.03	109.84
1	1q	126	VAL	CA-C-N	6.61	127.28	120.00
1	1q	126	VAL	C-N-CA	6.61	127.28	120.00
1	eI	208	ALA	CA-C-O	6.61	127.25	120.24
1	eZ	145	TYR	CA-C-O	6.61	127.09	119.35
1	1v	150	ILE	CA-CB-CG1	6.61	121.64	110.40
1	fd	11	VAL	O-C-N	-6.61	115.42	123.09
1	1y	142	VAL	CA-C-O	6.61	128.18	121.17
1	fG	16	SER	CA-C-N	6.61	126.86	119.32
1	fG	16	SER	C-N-CA	6.61	126.86	119.32
1	fY	228	ALA	O-C-N	-6.61	114.19	122.19
1	g0	48	THR	CA-C-N	6.61	126.86	119.32
1	g0	48	THR	C-N-CA	6.61	126.86	119.32
1	g1	28	GLU	O-C-N	6.61	129.13	122.12
1	f	110	THR	CA-C-N	6.61	129.43	120.44
1	f	110	THR	C-N-CA	6.61	129.43	120.44
1	V	120	HIS	N-CA-C	6.61	118.86	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gz	226	HIS	O-C-N	-6.61	115.17	123.17
1	hG	75	GLU	CA-C-N	6.61	129.03	120.44
1	hG	75	GLU	C-N-CA	6.61	129.03	120.44
1	hP	172	LEU	CA-C-N	6.61	130.73	120.75
1	hP	172	LEU	C-N-CA	6.61	130.73	120.75
1	ku	180	GLU	N-CA-C	6.61	118.49	111.28
1	2C	202	LEU	N-CA-C	6.61	118.14	111.07
1	34	120	HIS	CG-CD2-NE2	6.61	113.81	107.20
1	3k	54	THR	CA-C-O	6.61	127.43	120.42
1	3w	69	LEU	CA-C-N	6.61	131.76	120.72
1	3w	69	LEU	C-N-CA	6.61	131.76	120.72
1	3F	36	VAL	O-C-N	-6.61	115.19	121.87
1	3W	176	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	4P	107	THR	N-CA-C	6.61	118.28	111.14
1	60	147	PRO	N-CD-CG	6.61	113.12	103.20
1	6x	102	SER	N-CA-C	6.61	119.31	111.71
1	6A	10	MET	CG-SD-CE	-6.61	86.35	100.90
1	6X	14	ALA	CA-C-O	-6.61	113.10	120.70
1	75	96	MET	N-CA-C	6.61	124.88	110.80
1	8c	146	SER	N-CA-C	6.61	122.50	113.77
1	9z	152	ASP	N-CA-C	6.61	119.09	111.02
1	Z	55	MET	O-C-N	-6.61	115.26	122.07
1	a5	182	LYS	N-CA-CB	-6.61	100.09	109.94
1	ad	96	MET	N-CA-CB	6.61	119.70	109.85
1	aV	74	ASN	O-C-N	6.61	128.88	122.07
1	aZ	193	ASN	CB-CA-C	-6.61	99.39	110.56
1	c5	226	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	1c	101	GLY	O-C-N	-6.61	115.76	122.17
1	ch	177	ALA	O-C-N	-6.61	114.68	122.81
1	ck	143	ARG	O-C-N	6.61	128.88	122.07
1	cV	127	GLY	O-C-N	-6.61	114.38	122.71
1	db	54	THR	CA-C-N	6.61	129.04	120.44
1	db	54	THR	C-N-CA	6.61	129.04	120.44
1	dR	75	GLU	O-C-N	-6.61	115.26	122.07
1	e1	93	PRO	CA-C-O	-6.61	113.89	121.36
1	ey	227	LYS	N-CA-C	6.61	119.49	111.82
1	eB	182	LYS	CA-C-N	6.61	129.47	120.54
1	eB	182	LYS	C-N-CA	6.61	129.47	120.54
1	fm	201	ILE	O-C-N	-6.61	115.02	121.83
1	fA	143	ARG	CA-C-N	6.61	129.03	120.44
1	fA	143	ARG	C-N-CA	6.61	129.03	120.44
1	fV	95	GLN	OE1-CD-NE2	-6.61	115.99	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g0	67	GLN	CA-C-N	6.61	129.14	120.28
1	g0	67	GLN	C-N-CA	6.61	129.14	120.28
1	g3	146	SER	CA-C-O	-6.61	113.53	119.75
1	A	76	GLU	N-CA-CB	6.61	119.60	110.01
1	E	180	GLU	CA-C-O	6.61	127.76	120.82
1	5	173	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	1G	23	TRP	CZ3-CH2-CZ2	-6.61	112.91	121.50
1	gW	63	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	hs	141	ILE	CA-C-N	6.61	128.89	120.56
1	hs	141	ILE	C-N-CA	6.61	128.89	120.56
1	hJ	100	ARG	CA-C-N	6.61	127.32	119.98
1	hJ	100	ARG	C-N-CA	6.61	127.32	119.98
1	1L	226	HIS	ND1-CE1-NE2	6.61	115.01	108.40
1	hQ	15	ILE	CA-CB-CG1	6.61	121.64	110.40
1	i8	227	LYS	N-CA-C	6.61	118.92	108.67
1	ia	130	TYR	CA-CB-CG	6.61	125.80	113.90
1	in	143	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	iE	160	PRO	CA-C-N	6.61	129.47	120.54
1	iE	160	PRO	C-N-CA	6.61	129.47	120.54
1	iE	193	ASN	CA-C-O	6.61	127.78	119.12
1	iL	150	ILE	O-C-N	-6.61	115.22	121.90
1	1T	9	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	jb	84	HIS	CA-C-O	-6.61	113.51	119.59
1	jp	168	PHE	CA-C-N	6.61	129.14	120.28
1	jp	168	PHE	C-N-CA	6.61	129.14	120.28
1	1W	183	ASN	N-CA-C	6.61	119.31	111.71
1	jM	65	ALA	CA-C-N	6.61	129.14	120.28
1	jM	65	ALA	C-N-CA	6.61	129.14	120.28
1	jN	143	ARG	CA-C-O	-6.61	113.89	120.70
1	jZ	84	HIS	ND1-CE1-NE2	6.61	115.01	108.40
1	k9	201	ILE	O-C-N	-6.61	115.02	121.83
1	kJ	3	VAL	O-C-N	-6.61	116.03	123.10
1	kK	5	ASN	OD1-CG-ND2	-6.61	115.99	122.60
1	kM	87	HIS	CA-C-O	-6.61	114.67	120.88
1	kO	128	GLU	CA-C-N	6.61	128.89	120.56
1	kO	128	GLU	C-N-CA	6.61	128.89	120.56
1	l6	69	LEU	N-CA-C	6.61	118.14	111.07
1	l7	21	ASN	CA-CB-CG	-6.61	105.99	112.60
1	lb	187	GLU	CA-C-N	6.61	129.43	120.44
1	lb	187	GLU	C-N-CA	6.61	129.43	120.44
1	li	12	HIS	CA-CB-CG	6.61	120.41	113.80
1	lr	53	ASN	OD1-CG-ND2	-6.61	115.99	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	221	VAL	CA-CB-CG1	-6.61	99.16	110.40
1	2S	56	LEU	CA-C-N	6.61	129.68	120.29
1	2S	56	LEU	C-N-CA	6.61	129.68	120.29
1	2T	39	MET	N-CA-C	6.61	118.14	111.07
1	2W	38	PRO	CA-C-N	6.61	129.68	120.29
1	2W	38	PRO	C-N-CA	6.61	129.68	120.29
1	33	102	SER	CA-C-N	6.61	129.43	120.44
1	33	102	SER	C-N-CA	6.61	129.43	120.44
1	36	141	ILE	O-C-N	-6.61	115.43	121.91
1	3E	131	LYS	CA-C-N	6.61	129.14	120.28
1	3E	131	LYS	C-N-CA	6.61	129.14	120.28
1	3L	228	ALA	N-CA-C	6.61	119.82	110.23
1	3Q	148	THR	CB-CA-C	6.61	120.66	109.55
1	47	58	THR	CA-C-N	6.61	130.90	122.37
1	47	58	THR	C-N-CA	6.61	130.90	122.37
1	4R	89	GLY	CA-C-N	6.61	128.10	119.84
1	4R	89	GLY	C-N-CA	6.61	128.10	119.84
1	4Y	41	SER	CA-C-N	6.61	129.68	120.29
1	4Y	41	SER	C-N-CA	6.61	129.68	120.29
1	5f	145	TYR	CA-C-N	6.61	129.58	120.39
1	5f	145	TYR	C-N-CA	6.61	129.58	120.39
1	5m	22	ALA	CA-C-O	6.61	127.56	120.55
1	5K	193	ASN	N-CA-C	-6.61	104.44	113.30
1	64	40	PHE	CA-C-N	6.61	129.14	120.28
1	64	40	PHE	C-N-CA	6.61	129.14	120.28
1	6o	76	GLU	N-CA-CB	6.61	119.94	110.16
1	6r	205	LEU	N-CA-C	6.61	119.31	111.71
1	6y	230	VAL	O-C-N	-6.61	116.04	123.18
1	7v	84	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	7Q	30	LYS	N-CA-C	6.61	120.65	112.59
1	81	27	VAL	N-CA-C	6.61	116.77	110.42
1	84	117	TRP	CB-CG-CD1	-6.61	116.98	126.90
1	88	89	GLY	CA-C-N	6.61	128.10	119.84
1	88	89	GLY	C-N-CA	6.61	128.10	119.84
1	8d	186	THR	CA-C-N	6.61	129.80	120.28
1	8d	186	THR	C-N-CA	6.61	129.80	120.28
1	8y	175	GLU	CA-C-N	6.61	131.53	122.34
1	8y	175	GLU	C-N-CA	6.61	131.53	122.34
1	98	50	GLN	O-C-N	-6.61	115.11	122.12
1	9q	182	LYS	CA-C-O	-6.61	113.54	120.55
1	9R	175	GLU	CA-C-O	6.61	128.46	121.19
1	9R	229	ARG	NE-CZ-NH2	-6.61	113.25	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ad	87	HIS	N-CA-C	6.61	119.81	110.23
1	ai	55	MET	N-CA-C	6.61	119.33	111.33
1	13	195	ASN	CA-CB-CG	6.61	119.21	112.60
1	aN	159	GLU	O-C-N	-6.61	115.03	121.18
1	aS	171	THR	CA-C-N	6.61	129.14	120.28
1	aS	171	THR	C-N-CA	6.61	129.14	120.28
1	b6	186	THR	CA-CB-CG2	6.61	121.74	110.50
1	bv	150	ILE	N-CA-CB	6.61	119.53	110.54
1	ce	161	PHE	CA-C-N	6.61	129.03	120.44
1	ce	161	PHE	C-N-CA	6.61	129.03	120.44
1	cu	83	LEU	CA-C-O	-6.61	113.88	120.82
1	cw	152	ASP	N-CA-C	6.61	121.18	113.18
1	ds	78	ALA	N-CA-C	6.61	118.48	111.28
1	eg	132	ARG	NH1-CZ-NH2	-6.61	110.71	119.30
1	ew	226	HIS	O-C-N	-6.61	114.68	122.81
1	eC	23	TRP	N-CA-C	6.61	119.33	111.33
1	eC	158	LYS	N-CA-C	-6.61	104.79	112.92
1	eH	136	LEU	CA-C-O	-6.61	113.49	120.63
1	fh	209	ALA	CA-C-N	6.61	131.16	121.31
1	fh	209	ALA	C-N-CA	6.61	131.16	121.31
1	fj	163	ASP	CA-CB-CG	6.61	119.21	112.60
1	fp	80	TRP	O-C-N	-6.61	115.11	122.12
1	fC	165	VAL	N-CA-C	-6.61	104.04	110.72
1	g2	12	HIS	CG-CD2-NE2	6.61	113.81	107.20
1	g7	22	ALA	N-CA-C	6.61	118.18	110.97
1	h	10	MET	CA-C-N	6.61	132.08	122.69
1	h	10	MET	C-N-CA	6.61	132.08	122.69
1	j	211	LEU	CA-C-N	6.61	129.14	120.28
1	j	211	LEU	C-N-CA	6.61	129.14	120.28
1	t	170	LYS	CA-C-N	6.61	129.14	120.28
1	t	170	LYS	C-N-CA	6.61	129.14	120.28
1	gy	100	ARG	O-C-N	-6.61	114.95	122.68
1	gZ	194	ALA	CA-C-O	-6.61	114.20	121.87
1	ho	16	SER	CA-C-N	6.61	126.85	119.32
1	ho	16	SER	C-N-CA	6.61	126.85	119.32
1	1J	184	TRP	CA-C-N	6.61	130.35	120.31
1	1J	184	TRP	C-N-CA	6.61	130.35	120.31
1	iP	143	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	jG	139	ASN	CA-C-N	6.61	129.14	120.28
1	jG	139	ASN	C-N-CA	6.61	129.14	120.28
1	1Y	189	LEU	CA-C-N	6.61	129.46	120.54
1	1Y	189	LEU	C-N-CA	6.61	129.46	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ku	103	ASP	CB-CA-C	-6.61	96.90	110.38
1	kO	184	TRP	CA-CB-CG	6.61	126.16	113.60
1	26	19	THR	CA-C-N	6.61	129.44	120.38
1	26	19	THR	C-N-CA	6.61	129.44	120.38
1	ls	150	ILE	CA-CB-CG1	6.61	121.64	110.40
1	lH	198	CYS	N-CA-C	6.61	118.48	111.28
1	2g	67	GLN	OE1-CD-NE2	6.61	129.21	122.60
1	2I	62	HIS	CB-CG-CD2	-6.61	122.61	131.20
1	45	25	LYS	N-CA-C	6.61	119.31	111.71
1	46	96	MET	O-C-N	-6.61	114.63	122.96
1	4n	29	GLU	N-CA-C	6.61	118.56	111.36
1	4P	71	GLU	CA-C-N	6.61	129.03	120.44
1	4P	71	GLU	C-N-CA	6.61	129.03	120.44
1	57	10	MET	CA-CB-CG	6.61	127.32	114.10
1	6f	23	TRP	CG-CD2-CE3	-6.61	127.29	133.90
1	6Y	70	LYS	O-C-N	-6.61	115.11	122.12
1	7P	37	ILE	O-C-N	-6.61	113.57	121.10
1	8C	110	THR	CA-C-N	6.61	130.03	120.38
1	8C	110	THR	C-N-CA	6.61	130.03	120.38
1	8H	92	GLU	CA-C-N	6.61	128.10	119.84
1	8H	92	GLU	C-N-CA	6.61	128.10	119.84
1	9k	22	ALA	N-CA-CB	6.61	119.79	109.94
1	9n	111	LEU	O-C-N	-6.61	113.80	122.59
1	9u	33	SER	CA-C-N	-6.61	112.90	120.04
1	9u	33	SER	C-N-CA	-6.61	112.90	120.04
1	9w	23	TRP	N-CA-C	6.61	118.48	111.28
1	aW	105	ALA	N-CA-C	6.61	118.56	111.36
1	17	211	LEU	N-CA-C	6.61	118.48	111.28
1	ct	121	ASN	CA-CB-CG	-6.61	105.99	112.60
1	1l	173	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	dC	69	LEU	CA-C-N	6.61	129.14	120.28
1	dC	69	LEU	C-N-CA	6.61	129.14	120.28
1	e1	12	HIS	ND1-CE1-NE2	6.61	115.01	108.40
1	1w	130	TYR	CA-C-O	6.61	127.51	120.70
1	fp	206	GLY	N-CA-C	6.61	125.82	112.34
1	fS	129	ILE	CA-C-N	6.61	130.35	120.31
1	fS	129	ILE	C-N-CA	6.61	130.35	120.31
1	k	41	SER	CA-C-N	6.61	129.14	120.28
1	k	41	SER	C-N-CA	6.61	129.14	120.28
1	n	142	VAL	CA-C-O	6.61	127.82	120.95
1	N	48	THR	N-CA-C	-6.61	102.53	110.13
1	gj	14	ALA	N-CA-C	6.61	118.83	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gu	45	GLU	N-CA-CB	6.61	119.88	109.71
1	1G	172	LEU	N-CA-CB	-6.61	100.33	110.44
1	h3	165	VAL	N-CA-C	6.61	116.76	110.42
1	hB	138	LEU	N-CA-C	6.61	118.48	111.28
1	hW	10	MET	N-CA-C	6.61	120.07	110.42
1	iT	72	THR	CA-C-N	6.61	129.12	120.60
1	iT	72	THR	C-N-CA	6.61	129.12	120.60
1	jq	40	PHE	N-CA-C	-6.61	104.08	111.28
1	1W	131	LYS	O-C-N	-6.61	114.49	122.22
1	jH	57	ASN	O-C-N	-6.61	114.08	122.34
1	1Z	130	TYR	CA-C-N	6.61	129.43	120.38
1	1Z	130	TYR	C-N-CA	6.61	129.43	120.38
1	k0	152	ASP	CA-C-N	6.61	130.42	120.77
1	k0	152	ASP	C-N-CA	6.61	130.42	120.77
1	k2	199	LYS	O-C-N	-6.61	115.12	122.12
1	21	15	ILE	O-C-N	-6.61	116.38	122.79
1	l8	155	GLN	N-CA-C	6.61	118.81	108.96
1	3f	117	TRP	N-CA-CB	6.61	119.94	110.16
1	3k	139	ASN	CA-C-N	6.61	129.13	120.28
1	3k	139	ASN	C-N-CA	6.61	129.13	120.28
1	3A	65	ALA	O-C-N	-6.61	115.12	122.12
1	3I	230	VAL	N-CA-CB	6.61	118.44	110.31
1	3Q	224	PRO	N-CA-C	6.61	126.08	112.47
1	3Y	178	SER	N-CA-CB	6.61	119.75	110.04
1	43	58	THR	N-CA-CB	6.61	120.39	110.22
1	45	133	TRP	N-CA-C	6.61	118.56	111.36
1	48	124	ILE	O-C-N	-6.61	116.31	121.46
1	49	96	MET	CG-SD-CE	-6.61	86.36	100.90
1	4C	180	GLU	CA-C-N	6.61	131.12	120.55
1	4C	180	GLU	C-N-CA	6.61	131.12	120.55
1	4D	100	ARG	CA-C-N	6.61	127.46	119.99
1	4D	100	ARG	C-N-CA	6.61	127.46	119.99
1	58	195	ASN	OD1-CG-ND2	-6.61	115.99	122.60
1	5w	159	GLU	CB-CA-C	-6.61	102.55	110.15
1	5K	201	ILE	N-CA-C	6.61	117.39	110.72
1	5T	202	LEU	N-CA-C	6.61	118.14	111.07
1	6j	81	ASP	O-C-N	-6.61	115.27	122.07
1	6l	179	GLN	N-CA-C	6.61	119.33	111.33
1	6K	100	ARG	NH1-CZ-NH2	-6.61	110.71	119.30
1	6Q	227	LYS	N-CA-C	-6.61	105.25	113.38
1	6T	184	TRP	CA-C-N	6.61	129.67	120.29
1	6T	184	TRP	C-N-CA	6.61	129.67	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	159	GLU	N-CA-C	6.61	119.59	110.01
1	6X	179	GLN	N-CA-CB	6.61	119.59	110.01
1	6Y	148	THR	CA-C-O	6.61	127.71	120.71
1	79	117	TRP	N-CA-C	6.61	118.48	111.28
1	7i	139	ASN	CA-C-O	-6.61	113.50	120.63
1	7o	186	THR	N-CA-CB	6.61	119.65	110.07
1	7O	215	MET	CA-C-O	-6.61	113.88	120.82
1	86	156	GLY	CA-C-O	-6.61	112.07	121.52
1	8c	209	ALA	CA-C-O	-6.61	113.93	121.07
1	8f	126	VAL	N-CA-C	6.61	117.36	110.62
1	8m	118	MET	O-C-N	-6.61	112.78	122.43
1	8B	203	LYS	CA-C-N	6.61	129.13	120.28
1	8B	203	LYS	C-N-CA	6.61	129.13	120.28
1	8W	194	ALA	N-CA-C	6.61	119.82	110.50
1	93	35	GLU	O-C-N	-6.61	114.14	122.27
1	9d	85	PRO	N-CA-CB	6.61	107.51	102.36
1	9l	201	ILE	CA-C-O	-6.61	113.85	120.85
1	9o	146	SER	CA-C-O	-6.61	113.30	120.17
1	9T	165	VAL	N-CA-CB	6.61	119.03	110.57
1	a4	142	VAL	CA-C-N	6.61	129.13	120.28
1	a4	142	VAL	C-N-CA	6.61	129.13	120.28
1	aA	87	HIS	CB-CG-ND1	6.61	132.61	122.70
1	aI	171	THR	CA-C-N	6.61	129.43	120.38
1	aI	171	THR	C-N-CA	6.61	129.43	120.38
1	aT	107	THR	CA-CB-OG1	6.61	119.51	109.60
1	b1	67	GLN	OE1-CD-NE2	-6.61	115.99	122.60
1	b2	150	ILE	N-CA-C	6.61	117.36	110.62
1	b6	120	HIS	CA-CB-CG	6.61	120.41	113.80
1	bn	203	LYS	O-C-N	-6.61	115.11	122.12
1	bV	126	VAL	N-CA-C	6.61	119.35	111.09
1	bZ	153	ILE	N-CA-C	6.61	118.29	109.37
1	ca	158	LYS	CA-C-O	6.61	126.04	118.97
1	cm	26	VAL	CA-C-N	6.61	129.51	120.46
1	cm	26	VAL	C-N-CA	6.61	129.51	120.46
1	cB	191	VAL	O-C-N	-6.61	114.80	122.07
1	cY	14	ALA	N-CA-C	6.61	119.87	109.96
1	dz	59	VAL	N-CA-CB	6.61	118.92	110.99
1	dB	100	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	dZ	78	ALA	CA-C-N	6.61	129.43	120.38
1	dZ	78	ALA	C-N-CA	6.61	129.43	120.38
1	em	171	THR	N-CA-C	6.61	118.48	111.28
1	et	214	MET	N-CA-C	6.61	118.14	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ev	186	THR	N-CA-CB	6.61	120.52	110.28
1	eD	103	ASP	CA-C-N	6.61	128.88	120.56
1	eD	103	ASP	C-N-CA	6.61	128.88	120.56
1	1s	126	VAL	O-C-N	-6.61	115.46	121.87
1	eN	139	ASN	CA-C-N	6.61	129.13	120.28
1	eN	139	ASN	C-N-CA	6.61	129.13	120.28
1	eQ	76	GLU	CA-C-N	6.61	129.03	120.44
1	eQ	76	GLU	C-N-CA	6.61	129.03	120.44
1	eZ	199	LYS	O-C-N	-6.61	115.11	122.12
1	ff	35	GLU	N-CA-C	6.61	118.14	111.07
1	fg	97	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	fr	224	PRO	N-CA-CB	6.61	108.87	103.32
1	fv	200	THR	CA-C-N	6.61	128.96	120.70
1	fv	200	THR	C-N-CA	6.61	128.96	120.70
1	fy	126	VAL	CA-C-N	6.61	127.14	119.94
1	fy	126	VAL	C-N-CA	6.61	127.14	119.94
1	fJ	3	VAL	CA-CB-CG2	-6.61	99.17	110.40
1	fS	32	PHE	CA-CB-CG	-6.61	107.19	113.80
1	g0	165	VAL	N-CA-C	-6.61	104.32	110.53
1	v	226	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	B	73	ILE	CB-CA-C	-6.61	103.42	111.88
1	K	38	PRO	CA-C-N	6.61	129.13	120.28
1	K	38	PRO	C-N-CA	6.61	129.13	120.28
1	g8	74	ASN	CB-CA-C	-6.61	99.82	110.79
1	ga	197	ASP	O-C-N	-6.61	115.12	122.12
1	gi	229	ARG	NE-CZ-NH2	-6.61	113.26	119.20
1	gp	167	ARG	CA-C-N	6.61	129.13	120.28
1	gp	167	ARG	C-N-CA	6.61	129.13	120.28
1	gH	68	MET	N-CA-C	6.61	119.32	111.33
1	h7	178	SER	CA-C-N	6.61	129.13	120.28
1	h7	178	SER	C-N-CA	6.61	129.13	120.28
1	hW	143	ARG	NE-CZ-NH1	6.61	128.10	121.50
1	if	211	LEU	O-C-N	-6.61	113.58	122.43
1	iz	142	VAL	N-CA-C	6.61	118.15	110.62
1	iB	92	GLU	N-CA-C	6.61	121.47	112.55
1	iB	219	GLN	N-CA-C	6.61	119.95	110.24
1	iW	162	ARG	N-CA-C	6.61	119.04	111.11
1	iY	29	GLU	O-C-N	-6.61	113.38	122.30
1	ji	23	TRP	N-CA-C	6.61	118.14	111.07
1	ji	206	GLY	O-C-N	-6.61	115.16	121.77
1	1X	83	LEU	N-CA-C	6.61	118.14	111.07
1	k1	22	ALA	CA-C-N	6.61	129.97	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k1	22	ALA	C-N-CA	6.61	129.97	120.79
1	ke	89	GLY	O-C-N	6.61	128.38	121.77
1	ko	68	MET	N-CA-C	6.61	119.32	111.33
1	kt	162	ARG	NE-CZ-NH2	-6.61	113.25	119.20
1	le	23	TRP	CE3-CZ3-CH2	6.61	129.69	121.10
1	27	152	ASP	N-CA-CB	-6.61	100.33	110.44
1	2V	185	MET	N-CA-C	6.61	118.48	111.28
1	3h	178	SER	N-CA-C	6.61	119.50	108.73
1	3L	152	ASP	CA-CB-CG	6.61	119.21	112.60
1	40	32	PHE	CA-C-O	6.61	127.09	120.88
1	4q	189	LEU	CA-C-O	-6.61	113.89	120.82
1	4N	101	GLY	N-CA-C	6.61	120.66	112.73
1	51	171	THR	N-CA-C	6.61	118.56	111.36
1	53	12	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	5l	5	ASN	N-CA-C	6.61	119.04	111.11
1	5M	97	ARG	NE-CZ-NH1	6.61	128.11	121.50
1	63	138	LEU	N-CA-C	6.61	118.48	111.28
1	66	211	LEU	N-CA-C	6.61	119.31	111.71
1	6c	31	ALA	CA-C-O	6.61	126.41	119.14
1	6O	20	LEU	N-CA-C	6.61	118.48	111.28
1	6O	24	VAL	CA-C-N	6.61	129.43	120.38
1	6O	24	VAL	C-N-CA	6.61	129.43	120.38
1	75	62	HIS	ND1-CG-CD2	6.61	112.70	106.10
1	7x	179	GLN	N-CA-CB	6.61	120.52	110.28
1	7Z	180	GLU	O-C-N	-6.61	114.62	122.15
1	8o	193	ASN	CA-C-O	6.61	127.42	119.43
1	8v	23	TRP	N-CA-C	6.61	118.48	111.28
1	8X	73	ILE	CA-C-N	6.61	129.79	120.28
1	8X	73	ILE	C-N-CA	6.61	129.79	120.28
1	90	175	GLU	O-C-N	-6.61	114.75	122.87
1	9f	146	SER	CA-C-N	6.61	126.31	119.64
1	9f	146	SER	C-N-CA	6.61	126.31	119.64
1	9O	193	ASN	N-CA-C	6.61	119.48	111.82
1	9P	84	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
1	a7	190	LEU	CA-C-O	6.61	127.55	120.55
1	ap	41	SER	CA-C-N	6.61	129.67	120.29
1	ap	41	SER	C-N-CA	6.61	129.67	120.29
1	aG	87	HIS	ND1-CE1-NE2	6.61	115.00	108.40
1	15	92	GLU	CA-C-N	6.61	126.63	119.89
1	15	92	GLU	C-N-CA	6.61	126.63	119.89
1	b2	209	ALA	CA-C-N	6.61	131.87	122.09
1	b2	209	ALA	C-N-CA	6.61	131.87	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bu	171	THR	CA-C-N	6.61	129.13	120.28
1	bu	171	THR	C-N-CA	6.61	129.13	120.28
1	c0	106	GLY	CA-C-N	6.61	129.13	120.28
1	c0	106	GLY	C-N-CA	6.61	129.13	120.28
1	cc	212	GLU	N-CA-C	6.61	118.48	111.28
1	ct	195	ASN	CA-CB-CG	6.61	119.20	112.60
1	ct	200	THR	N-CA-C	6.61	118.48	111.28
1	cN	189	LEU	CA-C-O	-6.61	113.55	120.55
1	d1	212	GLU	CA-C-N	6.61	129.13	120.28
1	d1	212	GLU	C-N-CA	6.61	129.13	120.28
1	do	77	ALA	N-CA-C	6.61	118.48	111.28
1	1n	161	PHE	CB-CG-CD2	-6.61	109.47	120.70
1	f3	151	LEU	CA-C-O	-6.61	111.25	119.38
1	fa	113	GLU	N-CA-C	6.61	118.56	111.36
1	fp	4	GLN	CA-C-N	6.61	129.42	120.44
1	fp	4	GLN	C-N-CA	6.61	129.42	120.44
1	fy	196	PRO	N-CA-C	6.61	126.08	112.47
1	fJ	162	ARG	CA-C-N	6.61	129.43	120.38
1	fJ	162	ARG	C-N-CA	6.61	129.43	120.38
1	fO	200	THR	N-CA-C	6.61	118.56	111.36
1	fR	48	THR	CA-C-N	6.61	128.10	119.84
1	fR	48	THR	C-N-CA	6.61	128.10	119.84
1	fS	136	LEU	CA-C-O	6.61	127.76	120.82
1	1B	20	LEU	CA-C-O	6.61	127.55	120.55
1	i	36	VAL	N-CA-C	6.61	117.36	110.62
1	w	80	TRP	CB-CA-C	6.61	121.13	110.96
1	E	73	ILE	N-CA-C	6.61	119.35	111.09
1	6	139	ASN	CA-C-N	6.61	129.03	120.44
1	6	139	ASN	C-N-CA	6.61	129.03	120.44
1	7	53	ASN	OD1-CG-ND2	-6.61	115.99	122.60
1	ga	112	GLN	N-CA-C	6.60	118.48	111.28
1	gJ	179	GLN	CA-C-N	6.60	129.13	120.28
1	gJ	179	GLN	C-N-CA	6.60	129.13	120.28
1	gW	36	VAL	N-CA-C	6.60	117.36	110.62
1	hD	69	LEU	N-CA-C	6.60	118.48	111.28
1	iK	96	MET	N-CA-CB	6.60	121.02	110.85
1	jF	197	ASP	N-CA-C	6.60	118.14	111.07
1	k4	31	ALA	CB-CA-C	-6.60	107.93	115.79
1	k4	117	TRP	CA-C-N	6.60	129.79	120.28
1	k4	117	TRP	C-N-CA	6.60	129.79	120.28
1	kT	195	ASN	CA-C-N	6.60	128.09	119.84
1	kT	195	ASN	C-N-CA	6.60	128.09	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lA	122	PRO	CA-C-N	6.60	126.58	119.78
1	lA	122	PRO	C-N-CA	6.60	126.58	119.78
1	lO	62	HIS	N-CA-C	6.60	120.28	111.30
1	2M	53	ASN	OD1-CG-ND2	-6.60	116.00	122.60
1	2N	33	SER	CA-C-O	-6.60	113.61	120.02
1	38	172	LEU	CA-C-O	6.60	127.50	119.38
1	3A	182	LYS	N-CA-C	6.60	118.48	111.28
1	3O	180	GLU	O-C-N	6.60	128.87	122.07
1	4B	22	ALA	N-CA-C	6.60	118.27	111.14
1	4V	159	GLU	N-CA-C	6.60	118.03	109.64
1	5C	100	ARG	CA-C-N	6.60	127.43	120.03
1	5C	100	ARG	C-N-CA	6.60	127.43	120.03
1	68	200	THR	CA-C-N	6.60	129.80	120.42
1	68	200	THR	C-N-CA	6.60	129.80	120.42
1	69	143	ARG	N-CA-CB	6.60	119.55	109.91
1	6y	170	LYS	CA-C-O	6.60	127.56	119.97
1	6W	91	ILE	CA-CB-CG1	6.60	121.63	110.40
1	7u	214	MET	CA-C-O	6.60	127.42	120.42
1	7E	170	LYS	N-CA-C	6.60	118.48	111.28
1	8L	98	GLU	O-C-N	-6.60	115.42	121.30
1	9c	126	VAL	N-CA-CB	6.60	117.84	110.51
1	10	19	THR	O-C-N	6.60	129.68	122.15
1	11	34	PRO	N-CA-CB	6.60	110.08	102.88
1	ay	171	THR	CA-C-O	6.60	127.57	120.24
1	b3	198	CYS	CA-C-N	6.60	129.13	120.28
1	b3	198	CYS	C-N-CA	6.60	129.13	120.28
1	bz	74	ASN	N-CA-C	6.60	118.48	111.28
1	bG	142	VAL	CA-C-N	6.60	129.03	120.44
1	bG	142	VAL	C-N-CA	6.60	129.03	120.44
1	1d	108	THR	O-C-N	-6.60	114.42	122.34
1	cP	131	LYS	CA-C-N	6.60	129.46	120.54
1	cP	131	LYS	C-N-CA	6.60	129.46	120.54
1	dk	186	THR	N-CA-C	6.60	118.56	111.36
1	dL	15	ILE	N-CA-C	6.60	118.28	109.37
1	eE	102	SER	O-C-N	-6.60	113.58	122.43
1	1s	151	LEU	CA-C-O	6.60	127.56	119.97
1	eK	133	TRP	CB-CG-CD2	-6.60	117.55	126.80
1	1v	51	ASP	O-C-N	-6.60	115.12	122.12
1	fy	159	GLU	O-C-N	-6.60	114.68	121.28
1	g3	203	LYS	N-CA-CB	6.60	119.93	110.16
1	m	54	THR	O-C-N	-6.60	115.12	122.12
1	gH	43	LEU	N-CA-C	-6.60	104.70	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h0	139	ASN	CA-CB-CG	-6.60	106.00	112.60
1	h5	96	MET	N-CA-C	6.60	119.33	110.35
1	hh	176	GLN	CB-CA-C	-6.60	99.60	109.90
1	hs	84	HIS	ND1-CE1-NE2	6.60	115.00	108.40
1	hs	137	GLY	CA-C-N	6.60	129.02	120.44
1	hs	137	GLY	C-N-CA	6.60	129.02	120.44
1	ht	217	ALA	N-CA-C	6.60	118.85	110.33
1	1N	78	ALA	CA-C-N	6.60	129.13	120.28
1	1N	78	ALA	C-N-CA	6.60	129.13	120.28
1	ii	33	SER	CA-C-O	-6.60	114.55	120.56
1	im	174	ALA	N-CA-CB	-6.60	100.36	110.20
1	jY	175	GLU	N-CA-C	6.60	124.86	110.80
1	k3	41	SER	O-C-N	-6.60	115.27	122.07
1	k4	118	MET	N-CA-C	6.60	119.30	111.71
1	kQ	66	MET	CA-C-N	6.60	129.13	120.28
1	kQ	66	MET	C-N-CA	6.60	129.13	120.28
1	lf	77	ALA	CA-C-N	6.60	129.02	120.44
1	lf	77	ALA	C-N-CA	6.60	129.02	120.44
1	ll	82	ARG	CA-C-O	-6.60	113.55	120.55
1	2a	201	ILE	CA-C-N	6.60	129.13	120.28
1	2a	201	ILE	C-N-CA	6.60	129.13	120.28
1	2b	56	LEU	CA-C-O	6.60	127.76	120.63
1	2h	27	VAL	CA-C-N	6.60	129.02	120.44
1	2h	27	VAL	C-N-CA	6.60	129.02	120.44
1	2H	159	GLU	CA-C-O	-6.60	114.16	119.71
1	2K	167	ARG	N-CA-C	-6.60	105.22	113.28
1	2T	22	ALA	O-C-N	-6.60	115.27	122.07
1	2Y	191	VAL	CA-CB-CG2	-6.60	99.17	110.40
1	32	218	CYS	CA-C-N	6.60	132.91	122.74
1	32	218	CYS	C-N-CA	6.60	132.91	122.74
1	33	99	PRO	N-CA-C	6.60	121.58	111.15
1	3a	67	GLN	N-CA-C	6.60	119.32	111.33
1	3b	173	ARG	CD-NE-CZ	6.60	133.64	124.40
1	3e	40	PHE	CA-C-O	6.60	127.96	120.90
1	3e	183	ASN	CA-CB-CG	6.60	119.20	112.60
1	3p	177	ALA	N-CA-C	6.60	120.59	112.54
1	4r	208	ALA	CA-C-N	6.60	131.21	122.30
1	4r	208	ALA	C-N-CA	6.60	131.21	122.30
1	4C	130	TYR	O-C-N	6.60	129.68	122.15
1	4M	8	GLY	N-CA-C	6.60	118.22	111.95
1	52	18	ARG	N-CA-C	6.60	118.48	111.28
1	5e	11	VAL	CA-CB-CG2	-6.60	99.17	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	122	PRO	N-CD-CG	6.60	111.72	103.80
1	5L	128	GLU	N-CA-C	6.60	118.14	111.07
1	6M	200	THR	CA-C-N	6.60	129.84	120.53
1	6M	200	THR	C-N-CA	6.60	129.84	120.53
1	6N	178	SER	O-C-N	-6.60	113.50	122.94
1	6Q	10	MET	CA-CB-CG	6.60	127.31	114.10
1	7h	202	LEU	CA-C-N	6.60	129.13	120.28
1	7h	202	LEU	C-N-CA	6.60	129.13	120.28
1	7p	42	ALA	CA-C-N	6.60	129.13	120.28
1	7p	42	ALA	C-N-CA	6.60	129.13	120.28
1	7D	145	TYR	N-CA-CB	6.60	119.83	110.12
1	8j	185	MET	N-CA-C	6.60	119.03	111.11
1	8B	214	MET	N-CA-C	6.60	119.30	111.71
1	8E	142	VAL	O-C-N	-6.60	115.44	121.91
1	8N	178	SER	N-CA-C	6.60	118.82	110.24
1	8S	123	PRO	O-C-N	-6.60	115.71	123.10
1	8Y	169	TYR	N-CA-C	6.60	118.48	111.28
1	92	165	VAL	CA-C-N	6.60	129.66	120.29
1	92	165	VAL	C-N-CA	6.60	129.66	120.29
1	95	205	LEU	CA-C-N	6.60	132.24	121.87
1	95	205	LEU	C-N-CA	6.60	132.24	121.87
1	97	198	CYS	CB-CA-C	-6.60	100.51	110.88
1	9a	104	ILE	O-C-N	-6.60	115.34	121.94
1	9q	50	GLN	O-C-N	-6.60	115.12	122.12
1	9x	62	HIS	CA-CB-CG	6.60	120.40	113.80
1	9J	78	ALA	O-C-N	6.60	128.87	122.07
1	aa	126	VAL	N-CA-C	6.60	118.15	110.62
1	13	28	GLU	CA-C-O	-6.60	113.89	120.82
1	aO	16	SER	O-C-N	-6.60	115.97	121.38
1	b6	20	LEU	CA-C-O	-6.60	113.89	120.82
1	bo	210	THR	CA-C-N	6.60	129.67	120.29
1	bo	210	THR	C-N-CA	6.60	129.67	120.29
1	br	100	ARG	CA-C-N	6.60	127.45	119.99
1	br	100	ARG	C-N-CA	6.60	127.45	119.99
1	bu	213	GLU	CA-C-N	6.60	129.13	120.28
1	bu	213	GLU	C-N-CA	6.60	129.13	120.28
1	c2	109	SER	CA-C-N	6.60	132.93	122.36
1	c2	109	SER	C-N-CA	6.60	132.93	122.36
1	1f	199	LYS	CA-C-N	6.60	129.13	120.28
1	1f	199	LYS	C-N-CA	6.60	129.13	120.28
1	d7	126	VAL	CA-CB-CG2	-6.60	99.18	110.40
1	dr	99	PRO	N-CA-C	6.60	121.20	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dM	143	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	dO	76	GLU	CA-C-N	6.60	129.13	120.28
1	dO	76	GLU	C-N-CA	6.60	129.13	120.28
1	er	101	GLY	CA-C-N	6.60	129.13	120.28
1	er	101	GLY	C-N-CA	6.60	129.13	120.28
1	f3	39	MET	O-C-N	-6.60	115.12	122.12
1	fa	100	ARG	CA-C-N	6.60	128.45	120.13
1	fa	100	ARG	C-N-CA	6.60	128.45	120.13
1	fr	201	ILE	N-CA-CB	6.60	119.52	110.54
1	fC	54	THR	CA-CB-CG2	6.60	121.72	110.50
1	fV	51	ASP	CA-C-O	6.60	127.50	120.70
1	g3	31	ALA	N-CA-C	6.60	120.93	113.01
1	j	174	ALA	CA-C-N	6.60	130.72	120.75
1	j	174	ALA	C-N-CA	6.60	130.72	120.75
1	8	115	ILE	O-C-N	-6.60	115.34	121.94
1	gU	23	TRP	N-CA-C	6.60	118.56	111.36
1	hl	186	THR	CA-CB-OG1	6.60	119.50	109.60
1	i7	133	TRP	N-CA-C	6.60	118.47	111.28
1	ih	64	ALA	N-CA-C	6.60	118.13	111.07
1	io	41	SER	CA-C-N	6.60	129.66	120.29
1	io	41	SER	C-N-CA	6.60	129.66	120.29
1	iP	79	GLU	CA-C-N	6.60	129.42	120.38
1	iP	79	GLU	C-N-CA	6.60	129.42	120.38
1	j8	173	ARG	O-C-N	6.60	129.68	122.15
1	jB	189	LEU	CA-C-N	6.60	129.02	120.44
1	jB	189	LEU	C-N-CA	6.60	129.02	120.44
1	kn	111	LEU	N-CA-C	6.60	118.47	111.28
1	kN	125	PRO	CB-CA-C	6.60	122.08	112.64
1	28	206	GLY	O-C-N	-6.60	115.17	121.77
1	ly	142	VAL	CA-C-N	6.60	129.13	120.28
1	ly	142	VAL	C-N-CA	6.60	129.13	120.28
1	30	58	THR	CA-CB-OG1	6.60	119.50	109.60
1	3L	137	GLY	O-C-N	6.60	128.52	122.18
1	3X	96	MET	N-CA-C	6.60	119.80	110.23
1	4D	75	GLU	CA-C-O	6.60	127.55	120.55
1	53	123	PRO	N-CA-CB	-6.60	97.61	103.35
1	7H	125	PRO	CA-C-N	6.60	129.50	120.46
1	7H	125	PRO	C-N-CA	6.60	129.50	120.46
1	7R	32	PHE	CA-CB-CG	-6.60	107.20	113.80
1	8W	185	MET	CG-SD-CE	-6.60	86.38	100.90
1	93	175	GLU	N-CA-C	6.60	119.55	110.24
1	am	110	THR	CA-C-N	6.60	129.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	am	110	THR	C-N-CA	6.60	129.13	120.28
1	aC	105	ALA	CA-C-O	6.60	127.50	119.38
1	c2	126	VAL	O-C-N	-6.60	115.47	121.87
1	co	33	SER	N-CA-C	6.60	117.19	109.60
1	dr	28	GLU	CB-CG-CD	6.60	123.82	112.60
1	dB	132	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	dZ	124	ILE	CA-C-O	-6.60	114.06	119.47
1	ee	64	ALA	CA-C-O	-6.60	113.55	120.55
1	f2	85	PRO	CA-C-N	6.60	129.96	120.98
1	f2	85	PRO	C-N-CA	6.60	129.96	120.98
1	fb	39	MET	CA-C-N	6.60	129.45	120.54
1	fb	39	MET	C-N-CA	6.60	129.45	120.54
1	fc	116	GLY	CA-C-O	-6.60	114.25	121.05
1	1y	66	MET	CA-C-N	6.60	129.42	120.44
1	1y	66	MET	C-N-CA	6.60	129.42	120.44
1	u	99	PRO	N-CA-C	6.60	122.02	111.26
1	gV	110	THR	CA-CB-OG1	6.60	119.50	109.60
1	h3	79	GLU	N-CA-C	6.60	118.47	111.28
1	hB	7	GLN	CB-CG-CD	6.60	123.82	112.60
1	hV	103	ASP	CA-CB-CG	6.60	119.20	112.60
1	hW	15	ILE	N-CA-C	6.60	118.28	109.37
1	iv	53	ASN	CB-CG-ND2	6.60	126.30	116.40
1	iz	187	GLU	N-CA-C	6.60	118.27	111.14
1	j4	226	HIS	O-C-N	-6.60	114.15	122.27
1	jh	25	LYS	N-CA-C	6.60	118.47	111.28
1	jk	135	ILE	CA-CB-CG1	-6.60	99.18	110.40
1	jo	200	THR	O-C-N	-6.60	115.23	122.09
1	jL	143	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	jN	33	SER	CA-C-N	6.60	127.44	120.12
1	jN	33	SER	C-N-CA	6.60	127.44	120.12
1	kg	47	ALA	N-CA-C	6.60	119.29	109.59
1	kn	91	ILE	N-CA-C	-6.60	106.30	112.83
1	kr	132	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	kE	149	SER	CA-C-N	6.60	129.50	120.46
1	kE	149	SER	C-N-CA	6.60	129.50	120.46
1	kM	107	THR	CA-C-N	6.60	132.90	122.60
1	kM	107	THR	C-N-CA	6.60	132.90	122.60
1	kQ	182	LYS	N-CA-C	6.60	119.32	111.33
1	25	159	GLU	CA-C-N	6.60	128.09	119.84
1	25	159	GLU	C-N-CA	6.60	128.09	119.84
1	l8	149	SER	N-CA-C	6.60	119.33	110.35
1	lo	190	LEU	O-C-N	-6.60	115.12	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lP	102	SER	O-C-N	-6.60	115.12	122.12
1	2c	161	PHE	CA-C-O	-6.60	113.43	120.42
1	2v	158	LYS	CA-C-O	6.60	126.03	118.97
1	3c	135	ILE	O-C-N	-6.60	115.20	121.87
1	4e	178	SER	CA-C-N	6.60	130.01	120.38
1	4e	178	SER	C-N-CA	6.60	130.01	120.38
1	4p	82	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	4E	219	GLN	N-CA-C	6.60	119.67	107.99
1	4Z	84	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
1	5d	219	GLN	OE1-CD-NE2	-6.60	116.00	122.60
1	5D	226	HIS	CG-CD2-NE2	6.60	113.80	107.20
1	5I	212	GLU	N-CA-C	6.60	118.47	111.28
1	5R	92	GLU	CA-C-N	6.60	128.09	119.84
1	5R	92	GLU	C-N-CA	6.60	128.09	119.84
1	5S	196	PRO	CA-C-N	6.60	129.12	120.28
1	5S	196	PRO	C-N-CA	6.60	129.12	120.28
1	69	66	MET	CA-C-O	6.60	127.55	120.55
1	6e	97	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	6h	167	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	6p	100	ARG	NH1-CZ-NH2	-6.60	110.72	119.30
1	6K	49	PRO	CA-C-N	6.60	129.02	120.44
1	6K	49	PRO	C-N-CA	6.60	129.02	120.44
1	6T	10	MET	CG-SD-CE	-6.60	86.38	100.90
1	79	25	LYS	N-CA-C	6.60	118.27	111.14
1	7d	108	THR	CA-CB-OG1	6.60	119.50	109.60
1	7S	55	MET	N-CA-C	6.60	118.13	111.07
1	84	124	ILE	N-CA-CB	6.60	119.71	111.39
1	8w	87	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
1	8W	166	ASP	CA-C-N	6.60	129.45	120.54
1	8W	166	ASP	C-N-CA	6.60	129.45	120.54
1	91	112	GLN	N-CA-C	6.60	119.03	111.11
1	9a	106	GLY	O-C-N	-6.60	114.71	122.50
1	9i	160	PRO	CA-C-O	-6.60	113.90	121.36
1	9j	162	ARG	CD-NE-CZ	6.60	133.64	124.40
1	9x	120	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
1	9U	33	SER	CA-C-N	6.60	126.84	119.32
1	9U	33	SER	C-N-CA	6.60	126.84	119.32
1	a2	164	TYR	CA-C-N	6.60	128.88	120.56
1	a2	164	TYR	C-N-CA	6.60	128.88	120.56
1	ap	69	LEU	N-CA-C	6.60	118.27	111.14
1	ap	178	SER	O-C-N	-6.60	113.81	122.59
1	at	176	GLN	O-C-N	-6.60	115.54	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13	57	ASN	CA-CB-CG	-6.60	106.00	112.60
1	aR	170	LYS	CA-C-O	6.60	127.42	120.42
1	aY	121	ASN	OD1-CG-ND2	6.60	129.20	122.60
1	b5	112	GLN	CA-C-N	6.60	129.02	120.44
1	b5	112	GLN	C-N-CA	6.60	129.02	120.44
1	bR	114	GLN	N-CA-C	6.60	119.03	111.11
1	ce	163	ASP	O-C-N	-6.60	115.12	122.12
1	cy	188	THR	O-C-N	-6.60	113.81	122.59
1	cL	137	GLY	CA-C-N	6.60	129.66	120.29
1	cL	137	GLY	C-N-CA	6.60	129.66	120.29
1	cR	211	LEU	O-C-N	-6.60	115.12	122.12
1	dd	87	HIS	CB-CG-ND1	6.60	132.60	122.70
1	do	41	SER	N-CA-C	6.60	118.13	111.07
1	dG	162	ARG	NE-CZ-NH1	6.60	128.10	121.50
1	dJ	178	SER	CA-C-N	6.60	129.12	120.28
1	dJ	178	SER	C-N-CA	6.60	129.12	120.28
1	dW	144	MET	N-CA-C	6.60	118.47	111.28
1	dX	167	ARG	N-CA-C	6.60	118.47	111.28
1	ee	16	SER	CA-C-N	6.60	126.19	119.19
1	ee	16	SER	C-N-CA	6.60	126.19	119.19
1	eD	41	SER	N-CA-CB	6.60	119.58	110.01
1	1s	83	LEU	CA-C-O	6.60	127.56	119.97
1	fW	142	VAL	CA-CB-CG1	6.60	121.62	110.40
1	fZ	82	ARG	N-CA-C	6.60	119.30	111.71
1	m	62	HIS	CA-CB-CG	-6.60	107.20	113.80
1	4	4	GLN	OE1-CD-NE2	-6.60	116.00	122.60
1	9	12	HIS	CA-CB-CG	6.60	120.40	113.80
1	gE	10	MET	CB-CA-C	-6.60	103.38	111.82
1	gL	184	TRP	O-C-N	-6.60	115.13	122.12
1	gU	96	MET	CA-C-N	6.60	132.02	120.87
1	gU	96	MET	C-N-CA	6.60	132.02	120.87
1	h8	13	GLN	N-CA-C	-6.60	96.78	108.13
1	hs	224	PRO	N-CA-C	6.60	126.06	112.47
1	i3	109	SER	O-C-N	-6.60	115.19	122.84
1	i5	23	TRP	O-C-N	-6.60	114.63	122.15
1	ib	46	GLY	CA-C-N	6.60	130.49	121.05
1	ib	46	GLY	C-N-CA	6.60	130.49	121.05
1	if	149	SER	N-CA-C	6.60	119.80	110.23
1	ih	86	VAL	CA-C-O	6.60	128.38	121.59
1	1R	92	GLU	N-CA-C	6.60	122.53	113.16
1	jq	189	LEU	CA-C-N	6.60	129.12	120.28
1	jq	189	LEU	C-N-CA	6.60	129.12	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jw	10	MET	O-C-N	-6.60	115.08	122.86
1	jz	64	ALA	CA-C-N	6.60	130.34	120.31
1	jz	64	ALA	C-N-CA	6.60	130.34	120.31
1	jP	82	ARG	N-CA-CB	6.60	120.51	110.28
1	jT	226	HIS	CE1-NE2-CD2	-6.60	102.40	109.00
1	kA	179	GLN	N-CA-C	6.60	118.47	111.28
1	lr	142	VAL	CA-CB-CG1	-6.60	99.18	110.40
1	lO	199	LYS	N-CA-C	6.60	118.47	111.28
1	2f	2	ILE	CB-CA-C	6.60	118.94	110.96
1	2v	204	ALA	CA-C-N	6.60	129.45	120.54
1	2v	204	ALA	C-N-CA	6.60	129.45	120.54
1	2M	29	GLU	CA-C-O	-6.60	111.88	119.60
1	2O	204	ALA	O-C-N	-6.60	115.13	122.12
1	3n	63	GLN	N-CA-C	6.60	118.13	111.07
1	3p	120	HIS	N-CA-C	6.60	118.53	110.41
1	3B	182	LYS	N-CA-C	6.60	119.31	111.33
1	3C	147	PRO	N-CA-C	-6.60	105.35	114.98
1	3V	155	GLN	O-C-N	-6.60	115.14	123.06
1	4g	100	ARG	CG-CD-NE	-6.60	97.49	112.00
1	4z	166	ASP	CA-C-N	6.60	129.12	120.28
1	4z	166	ASP	C-N-CA	6.60	129.12	120.28
1	4X	47	ALA	N-CA-C	6.60	120.05	110.28
1	5l	159	GLU	O-C-N	-6.60	114.68	121.28
1	5n	182	LYS	N-CA-C	6.60	119.30	111.71
1	5q	151	LEU	N-CA-C	-6.60	104.49	112.54
1	5s	217	ALA	CA-C-N	6.60	133.56	123.47
1	5s	217	ALA	C-N-CA	6.60	133.56	123.47
1	5y	211	LEU	N-CA-C	6.60	118.13	111.07
1	5H	88	ALA	CA-C-N	6.60	132.23	121.87
1	5H	88	ALA	C-N-CA	6.60	132.23	121.87
1	5S	69	LEU	CB-CA-C	6.60	121.24	110.88
1	5W	101	GLY	CA-C-N	6.60	130.34	120.31
1	5W	101	GLY	C-N-CA	6.60	130.34	120.31
1	62	12	HIS	CG-CD2-NE2	6.60	113.80	107.20
1	6C	92	GLU	CA-C-N	6.60	128.09	119.84
1	6C	92	GLU	C-N-CA	6.60	128.09	119.84
1	6F	214	MET	N-CA-C	6.60	118.13	111.07
1	6R	172	LEU	CA-C-N	6.60	129.42	120.38
1	6R	172	LEU	C-N-CA	6.60	129.42	120.38
1	9o	151	LEU	O-C-N	-6.60	114.16	122.27
1	9q	104	ILE	N-CA-C	6.60	116.75	110.42
1	9u	141	ILE	O-C-N	-6.60	115.47	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9D	178	SER	N-CA-C	6.60	119.80	110.50
1	9N	12	HIS	CB-CG-CD2	-6.60	122.62	131.20
1	9S	214	MET	O-C-N	-6.60	115.23	122.09
1	9Z	15	ILE	O-C-N	-6.60	114.48	122.59
1	aq	211	LEU	N-CA-C	6.60	120.19	111.75
1	as	71	GLU	CA-C-O	6.60	127.54	120.55
1	16	27	VAL	N-CA-C	-6.60	104.06	110.72
1	b8	116	GLY	CA-C-N	6.60	129.12	120.28
1	b8	116	GLY	C-N-CA	6.60	129.12	120.28
1	bm	122	PRO	N-CA-C	6.60	118.75	110.70
1	bw	221	VAL	N-CA-C	6.60	119.13	109.63
1	bZ	80	TRP	CG-CD2-CE3	6.60	140.50	133.90
1	1e	62	HIS	ND1-CG-CD2	6.60	112.70	106.10
1	cA	51	ASP	CA-CB-CG	6.60	119.20	112.60
1	d2	76	GLU	CA-C-N	6.60	129.12	120.28
1	d2	76	GLU	C-N-CA	6.60	129.12	120.28
1	dc	230	VAL	N-CA-C	-6.60	99.64	108.35
1	dv	109	SER	O-C-N	-6.60	115.33	122.85
1	dD	32	PHE	N-CA-C	6.60	118.65	109.15
1	dX	81	ASP	O-C-N	-6.60	115.13	122.12
1	e0	218	CYS	N-CA-C	6.60	124.85	110.80
1	eg	204	ALA	N-CA-C	6.60	118.47	111.28
1	eu	154	ARG	NH1-CZ-NH2	-6.60	110.72	119.30
1	ex	136	LEU	CA-C-N	6.60	127.26	119.94
1	ex	136	LEU	C-N-CA	6.60	127.26	119.94
1	eB	161	PHE	CA-C-N	6.60	129.12	120.28
1	eB	161	PHE	C-N-CA	6.60	129.12	120.28
1	eK	39	MET	CG-SD-CE	-6.60	86.38	100.90
1	eS	88	ALA	CA-C-O	-6.60	114.20	121.33
1	f9	37	ILE	O-C-N	-6.60	116.20	120.42
1	fk	84	HIS	ND1-CE1-NE2	6.60	115.00	108.40
1	fo	121	ASN	CB-CA-C	6.60	118.97	110.13
1	fz	165	VAL	O-C-N	-6.60	115.44	121.91
1	fO	214	MET	N-CA-C	6.60	119.31	111.33
1	fR	88	ALA	N-CA-CB	-6.60	100.50	110.73
1	l	185	MET	N-CA-C	6.60	118.47	111.28
1	m	114	GLN	N-CA-C	6.60	118.47	111.28
1	V	48	THR	CA-C-N	6.60	128.09	119.84
1	V	48	THR	C-N-CA	6.60	128.09	119.84
1	1C	127	GLY	CA-C-N	6.60	129.12	120.28
1	1C	127	GLY	C-N-CA	6.60	129.12	120.28
1	gE	143	ARG	NE-CZ-NH2	-6.60	113.26	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gN	22	ALA	N-CA-C	6.60	119.03	111.11
1	hi	96	MET	CA-C-N	6.60	130.08	120.71
1	hi	96	MET	C-N-CA	6.60	130.08	120.71
1	hs	26	VAL	N-CA-C	6.60	117.38	110.72
1	jt	128	GLU	CA-C-N	6.60	128.87	120.56
1	jt	128	GLU	C-N-CA	6.60	128.87	120.56
1	jt	174	ALA	CA-C-O	6.60	127.41	119.43
1	jF	228	ALA	CA-C-N	6.60	129.78	120.28
1	jF	228	ALA	C-N-CA	6.60	129.78	120.28
1	kn	52	LEU	CA-C-N	6.60	129.42	120.38
1	kn	52	LEU	C-N-CA	6.60	129.42	120.38
1	la	16	SER	CA-C-N	6.60	126.53	119.28
1	la	16	SER	C-N-CA	6.60	126.53	119.28
1	lw	124	ILE	CA-C-O	-6.60	114.89	119.38
1	2h	197	ASP	CA-CB-CG	-6.60	106.00	112.60
1	2r	210	THR	N-CA-C	6.60	119.07	110.43
1	3H	184	TRP	CB-CG-CD2	6.60	136.03	126.80
1	55	58	THR	N-CA-CB	6.60	119.92	110.16
1	5u	36	VAL	CA-C-N	6.60	125.61	120.33
1	5u	36	VAL	C-N-CA	6.60	125.61	120.33
1	5x	186	THR	O-C-N	-6.60	114.63	122.15
1	5Z	33	SER	N-CA-C	-6.60	102.28	108.22
1	7D	81	ASP	N-CA-C	6.60	118.55	111.36
1	7D	133	TRP	CB-CG-CD1	6.60	136.79	126.90
1	7F	214	MET	N-CA-C	6.60	121.07	112.89
1	8a	129	ILE	N-CA-C	6.60	116.75	110.42
1	8f	130	TYR	CA-C-N	6.60	129.12	120.28
1	8f	130	TYR	C-N-CA	6.60	129.12	120.28
1	8H	31	ALA	N-CA-C	6.60	119.30	111.71
1	bG	222	GLY	CA-C-N	6.60	132.22	121.87
1	bG	222	GLY	C-N-CA	6.60	132.22	121.87
1	1b	53	ASN	CA-CB-CG	-6.60	106.00	112.60
1	ea	92	GLU	CA-C-N	6.60	127.77	120.45
1	ea	92	GLU	C-N-CA	6.60	127.77	120.45
1	fv	74	ASN	CA-C-N	6.60	129.01	120.44
1	fv	74	ASN	C-N-CA	6.60	129.01	120.44
1	fw	143	ARG	NE-CZ-NH2	6.60	125.14	119.20
1	fz	106	GLY	N-CA-C	-6.60	106.34	114.92
1	g7	206	GLY	O-C-N	-6.60	115.17	121.77
1	1	156	GLY	O-C-N	-6.60	115.17	121.77
1	S	89	GLY	CA-C-N	6.60	127.50	120.11
1	S	89	GLY	C-N-CA	6.60	127.50	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g9	205	LEU	N-CA-C	6.59	120.42	112.38
1	gD	210	THR	CA-CB-OG1	6.59	119.49	109.60
1	gO	188	THR	CA-C-N	6.59	129.12	120.28
1	gO	188	THR	C-N-CA	6.59	129.12	120.28
1	gP	173	ARG	NH1-CZ-NH2	-6.59	110.73	119.30
1	hU	121	ASN	CA-C-O	-6.59	113.42	119.62
1	1O	225	GLY	O-C-N	-6.59	115.85	122.18
1	ip	66	MET	CG-SD-CE	-6.59	86.39	100.90
1	ip	230	VAL	CA-C-O	6.59	129.02	120.78
1	ir	19	THR	N-CA-C	-6.59	104.02	111.14
1	is	32	PHE	O-C-N	-6.59	113.82	122.59
1	iJ	37	ILE	O-C-N	-6.59	116.20	120.42
1	iN	101	GLY	CA-C-O	6.59	127.54	120.75
1	iN	183	ASN	O-C-N	-6.59	115.13	122.12
1	je	188	THR	N-CA-C	6.59	121.16	112.72
1	jg	62	HIS	CB-CG-CD2	-6.59	122.63	131.20
1	jr	176	GLN	N-CA-C	6.59	120.40	110.64
1	ju	13	GLN	CA-C-O	6.59	128.05	120.60
1	jE	162	ARG	CA-C-O	6.59	127.54	120.55
1	jF	145	TYR	CA-C-N	6.59	129.51	120.67
1	jF	145	TYR	C-N-CA	6.59	129.51	120.67
1	jV	67	GLN	N-CA-C	6.59	119.47	111.82
1	jW	221	VAL	CA-C-N	6.59	134.34	121.41
1	jW	221	VAL	C-N-CA	6.59	134.34	121.41
1	kd	196	PRO	CA-C-N	6.59	129.01	120.44
1	kd	196	PRO	C-N-CA	6.59	129.01	120.44
1	21	79	GLU	CA-C-N	6.59	129.01	120.44
1	21	79	GLU	C-N-CA	6.59	129.01	120.44
1	22	194	ALA	CA-C-N	6.59	130.69	120.60
1	22	194	ALA	C-N-CA	6.59	130.69	120.60
1	kM	179	GLN	OE1-CD-NE2	-6.59	116.00	122.60
1	kO	216	THR	CA-C-N	6.59	131.85	122.09
1	kO	216	THR	C-N-CA	6.59	131.85	122.09
1	kT	198	CYS	CA-C-O	6.59	127.54	120.55
1	kZ	195	ASN	CA-CB-CG	6.59	119.19	112.60
1	26	171	THR	CA-C-O	6.59	127.54	120.55
1	ld	127	GLY	CA-C-N	6.59	129.01	120.44
1	ld	127	GLY	C-N-CA	6.59	129.01	120.44
1	lA	203	LYS	N-CA-C	6.59	118.47	111.28
1	lR	193	ASN	N-CA-C	-6.59	105.11	113.02
1	2j	82	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	2V	139	ASN	OD1-CG-ND2	-6.59	116.01	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	32	143	ARG	N-CA-C	6.59	119.44	111.40
1	3f	195	ASN	CA-CB-CG	6.59	119.19	112.60
1	3q	118	MET	CB-CA-C	-6.59	98.43	110.63
1	3S	197	ASP	CA-CB-CG	-6.59	106.00	112.60
1	44	132	ARG	NE-CZ-NH1	-6.59	114.91	121.50
1	47	127	GLY	CA-C-N	6.59	129.12	120.28
1	47	127	GLY	C-N-CA	6.59	129.12	120.28
1	4o	56	LEU	CA-C-N	6.59	132.68	121.14
1	4o	56	LEU	C-N-CA	6.59	132.68	121.14
1	4p	135	ILE	O-C-N	-6.59	115.47	121.87
1	4w	101	GLY	CA-C-N	6.59	129.78	120.28
1	4w	101	GLY	C-N-CA	6.59	129.78	120.28
1	6a	112	GLN	CA-C-N	6.59	129.01	120.44
1	6a	112	GLN	C-N-CA	6.59	129.01	120.44
1	6j	137	GLY	O-C-N	-6.59	115.86	122.19
1	6v	195	ASN	CA-C-N	6.59	126.04	118.85
1	6v	195	ASN	C-N-CA	6.59	126.04	118.85
1	71	23	TRP	CA-C-N	6.59	129.50	120.46
1	71	23	TRP	C-N-CA	6.59	129.50	120.46
1	82	201	ILE	CA-C-N	6.59	129.12	120.28
1	82	201	ILE	C-N-CA	6.59	129.12	120.28
1	84	42	ALA	N-CA-C	6.59	119.02	111.11
1	9j	163	ASP	CA-CB-CG	6.59	119.19	112.60
1	9t	129	ILE	N-CA-C	6.59	117.35	110.62
1	9A	230	VAL	N-CA-CB	6.59	119.77	111.46
1	9B	148	THR	O-C-N	-6.59	115.02	122.93
1	aE	73	ILE	CA-C-N	6.59	129.44	120.54
1	aE	73	ILE	C-N-CA	6.59	129.44	120.54
1	aR	226	HIS	N-CA-CB	6.59	121.27	111.51
1	b0	139	ASN	CA-CB-CG	-6.59	106.00	112.60
1	b2	167	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	ba	138	LEU	CA-C-O	6.59	127.75	120.63
1	be	5	ASN	N-CA-C	6.59	120.64	111.74
1	bi	30	LYS	O-C-N	-6.59	114.24	122.35
1	bW	14	ALA	N-CA-C	6.59	119.80	110.50
1	c2	60	GLY	N-CA-C	6.59	120.65	112.14
1	cn	156	GLY	CA-C-N	6.59	126.04	118.85
1	cn	156	GLY	C-N-CA	6.59	126.04	118.85
1	1e	44	SER	CA-C-O	6.59	127.37	119.59
1	cw	7	GLN	CA-C-O	-6.59	111.70	119.48
1	cC	195	ASN	N-CA-CB	6.59	119.74	110.11
1	cE	36	VAL	N-CA-C	6.59	117.35	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cM	193	ASN	OD1-CG-ND2	-6.59	116.00	122.60
1	cR	29	GLU	N-CA-C	6.59	121.45	113.41
1	dc	209	ALA	N-CA-CB	6.59	119.87	109.71
1	de	183	ASN	O-C-N	-6.59	115.23	122.09
1	dq	195	ASN	CA-C-O	-6.59	113.55	119.75
1	dA	229	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	dM	154	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	dO	44	SER	O-C-N	-6.59	114.42	122.34
1	dW	169	TYR	N-CA-CB	6.59	119.57	110.01
1	e9	50	GLN	OE1-CD-NE2	-6.59	116.00	122.60
1	ec	72	THR	CA-C-N	6.59	129.11	120.60
1	ec	72	THR	C-N-CA	6.59	129.11	120.60
1	en	82	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	es	110	THR	CA-C-N	6.59	130.71	120.82
1	es	110	THR	C-N-CA	6.59	130.71	120.82
1	eI	5	ASN	OD1-CG-ND2	-6.59	116.00	122.60
1	f1	67	GLN	OE1-CD-NE2	-6.59	116.01	122.60
1	1v	143	ARG	CD-NE-CZ	6.59	133.63	124.40
1	fe	18	ARG	CA-C-O	6.59	127.75	120.82
1	fg	159	GLU	CA-C-N	6.59	128.08	119.84
1	fg	159	GLU	C-N-CA	6.59	128.08	119.84
1	g7	229	ARG	NE-CZ-NH2	6.59	125.14	119.20
1	R	87	HIS	O-C-N	-6.59	116.34	123.26
1	W	18	ARG	NH1-CZ-NH2	-6.59	110.73	119.30
1	X	180	GLU	CA-C-N	6.59	128.87	120.56
1	X	180	GLU	C-N-CA	6.59	128.87	120.56
1	h1	214	MET	O-C-N	-6.59	114.63	122.15
1	hu	226	HIS	CA-C-O	6.59	128.54	121.55
1	1L	191	VAL	O-C-N	-6.59	116.16	122.09
1	jk	130	TYR	O-C-N	-6.59	115.13	122.12
1	jH	131	LYS	CA-C-O	-6.59	112.65	120.10
1	jM	13	GLN	O-C-N	-6.59	115.23	123.27
1	k2	190	LEU	N-CA-C	6.59	119.29	111.71
1	kY	163	ASP	CA-C-N	6.59	129.01	120.44
1	kY	163	ASP	C-N-CA	6.59	129.01	120.44
1	2e	119	THR	N-CA-CB	6.59	120.56	110.61
1	2K	144	MET	CG-SD-CE	-6.59	86.40	100.90
1	2R	187	GLU	CA-C-O	6.59	124.36	119.68
1	36	66	MET	CG-SD-CE	-6.59	86.39	100.90
1	4R	123	PRO	CA-C-O	-6.59	113.82	121.34
1	4X	178	SER	CA-C-N	6.59	129.78	120.28
1	4X	178	SER	C-N-CA	6.59	129.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	56	215	MET	N-CA-C	6.59	118.47	111.28
1	5I	111	LEU	O-C-N	-6.59	115.28	122.07
1	6m	141	ILE	N-CA-C	6.59	117.28	110.36
1	6o	186	THR	N-CA-CB	6.59	119.92	110.16
1	6C	97	ARG	O-C-N	-6.59	116.70	123.29
1	7j	57	ASN	OD1-CG-ND2	-6.59	116.01	122.60
1	ak	110	THR	O-C-N	-6.59	114.28	123.11
1	ci	135	ILE	N-CA-C	6.59	117.38	110.72
1	dn	200	THR	CA-C-O	-6.59	113.56	120.55
1	dF	158	LYS	O-C-N	-6.59	114.26	122.24
1	dS	21	ASN	CA-CB-CG	6.59	119.19	112.60
1	ef	7	GLN	OE1-CD-NE2	6.59	129.19	122.60
1	1s	32	PHE	CA-CB-CG	-6.59	107.21	113.80
1	eX	222	GLY	CA-C-N	6.59	130.91	121.42
1	eX	222	GLY	C-N-CA	6.59	130.91	121.42
1	1y	124	ILE	N-CA-CB	6.59	120.44	111.21
1	fF	120	HIS	CG-CD2-NE2	6.59	113.79	107.20
1	g0	58	THR	CA-C-O	-6.59	111.33	119.18
1	g3	39	MET	CA-C-O	6.59	127.54	120.55
1	h	18	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	J	100	ARG	CA-C-N	6.59	128.38	120.14
1	J	100	ARG	C-N-CA	6.59	128.38	120.14
1	gQ	125	PRO	N-CA-CB	-6.59	97.92	102.73
1	hc	112	GLN	O-C-N	-6.59	114.64	122.15
1	hp	205	LEU	CA-C-N	6.59	132.22	121.87
1	hp	205	LEU	C-N-CA	6.59	132.22	121.87
1	ht	76	GLU	CA-C-N	6.59	129.65	120.29
1	ht	76	GLU	C-N-CA	6.59	129.65	120.29
1	hK	98	GLU	CA-C-O	-6.59	113.21	119.80
1	i0	195	ASN	CA-CB-CG	6.59	119.19	112.60
1	i3	128	GLU	CA-C-N	6.59	129.10	120.60
1	i3	128	GLU	C-N-CA	6.59	129.10	120.60
1	i7	18	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	im	33	SER	N-CA-CB	-6.59	104.50	111.29
1	iw	114	GLN	O-C-N	-6.59	115.28	122.07
1	iC	87	HIS	CA-C-O	-6.59	113.89	121.47
1	iX	143	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	j4	22	ALA	N-CA-C	-6.59	104.02	111.07
1	1V	12	HIS	CA-CB-CG	6.59	120.39	113.80
1	22	90	PRO	N-CA-C	6.59	121.59	111.11
1	kx	45	GLU	CA-C-N	6.59	135.62	121.18
1	kx	45	GLU	C-N-CA	6.59	135.62	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kM	84	HIS	CB-CG-CD2	-6.59	122.63	131.20
1	lb	226	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	lf	212	GLU	N-CA-CB	6.59	119.81	110.12
1	lA	81	ASP	O-C-N	-6.59	115.13	122.12
1	lL	36	VAL	O-C-N	-6.59	114.35	121.80
1	2c	195	ASN	O-C-N	-6.59	116.33	121.47
1	2E	170	LYS	O-C-N	-6.59	115.13	122.12
1	2R	163	ASP	CA-C-N	6.59	129.01	120.44
1	2R	163	ASP	C-N-CA	6.59	129.01	120.44
1	3b	148	THR	N-CA-CB	6.59	121.12	110.77
1	3l	165	VAL	CA-C-N	6.59	129.01	120.44
1	3l	165	VAL	C-N-CA	6.59	129.01	120.44
1	3o	21	ASN	OD1-CG-ND2	-6.59	116.01	122.60
1	3x	21	ASN	CA-CB-CG	6.59	119.19	112.60
1	3D	82	ARG	CA-C-N	6.59	129.11	120.28
1	3D	82	ARG	C-N-CA	6.59	129.11	120.28
1	3H	28	GLU	CA-C-N	6.59	129.40	120.44
1	3H	28	GLU	C-N-CA	6.59	129.40	120.44
1	3T	178	SER	CA-C-N	6.59	129.44	120.54
1	3T	178	SER	C-N-CA	6.59	129.44	120.54
1	47	167	ARG	CA-C-N	6.59	129.41	120.44
1	47	167	ARG	C-N-CA	6.59	129.41	120.44
1	4a	196	PRO	N-CA-C	6.59	123.37	113.81
1	4o	92	GLU	O-C-N	-6.59	115.18	121.57
1	4v	56	LEU	CA-C-O	-6.59	113.90	120.82
1	4v	104	ILE	N-CA-C	6.59	117.34	110.62
1	4C	120	HIS	O-C-N	-6.59	115.04	122.75
1	55	219	GLN	O-C-N	-6.59	115.68	123.06
1	5s	21	ASN	CA-CB-CG	-6.59	106.01	112.60
1	5M	141	ILE	N-CA-C	6.59	116.75	110.42
1	6k	11	VAL	O-C-N	-6.59	116.21	123.20
1	6o	23	TRP	N-CA-C	6.59	119.31	111.33
1	6w	58	THR	N-CA-CB	6.59	121.53	110.32
1	6x	98	GLU	CA-C-N	6.59	128.08	119.84
1	6x	98	GLU	C-N-CA	6.59	128.08	119.84
1	6x	209	ALA	CA-C-O	6.59	128.44	121.19
1	6S	219	GLN	OE1-CD-NE2	-6.59	116.01	122.60
1	7c	81	ASP	O-C-N	-6.59	115.13	122.12
1	7n	97	ARG	O-C-N	-6.59	115.48	123.19
1	7z	160	PRO	CA-C-N	6.59	134.13	121.54
1	7z	160	PRO	C-N-CA	6.59	134.13	121.54
1	83	22	ALA	N-CA-C	6.59	118.12	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	99	83	LEU	N-CA-C	6.59	118.46	111.28
1	9j	67	GLN	CA-C-O	-6.59	113.85	120.90
1	9q	193	ASN	CA-CB-CG	6.59	119.19	112.60
1	ax	120	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	aI	23	TRP	CB-CA-C	6.59	121.23	110.88
1	19	72	THR	O-C-N	-6.59	115.28	122.07
1	bM	72	THR	N-CA-CB	6.59	119.81	110.12
1	bO	89	GLY	CA-C-N	6.59	126.57	119.78
1	bO	89	GLY	C-N-CA	6.59	126.57	119.78
1	c9	53	ASN	O-C-N	-6.59	115.13	122.12
1	ck	212	GLU	CA-C-O	6.59	127.74	120.82
1	cu	117	TRP	N-CA-C	6.59	118.47	111.28
1	cK	162	ARG	CA-C-N	6.59	129.65	120.29
1	cK	162	ARG	C-N-CA	6.59	129.65	120.29
1	d7	133	TRP	N-CA-C	6.59	118.46	111.28
1	de	21	ASN	OD1-CG-ND2	-6.59	116.01	122.60
1	dj	69	LEU	CA-C-O	-6.59	113.56	120.55
1	do	48	THR	CA-C-O	-6.59	111.78	121.27
1	dV	85	PRO	O-C-N	-6.59	115.43	123.01
1	e1	156	GLY	CA-C-N	6.59	126.37	119.05
1	e1	156	GLY	C-N-CA	6.59	126.37	119.05
1	em	118	MET	N-CA-C	6.59	119.29	111.71
1	ez	78	ALA	N-CA-C	6.59	118.46	111.28
1	eE	28	GLU	N-CA-C	6.59	118.46	111.28
1	f9	103	ASP	CA-CB-CG	-6.59	106.01	112.60
1	fj	28	GLU	CA-C-N	6.59	129.41	120.44
1	fj	28	GLU	C-N-CA	6.59	129.41	120.44
1	fv	66	MET	O-C-N	-6.59	115.28	122.07
1	fB	193	ASN	CA-C-O	6.59	128.53	120.55
1	l	120	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	r	112	GLN	O-C-N	-6.59	115.13	122.12
1	y	100	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	A	62	HIS	N-CA-C	6.59	120.49	111.39
1	P	12	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	gf	89	GLY	CA-C-N	6.59	126.61	119.89
1	gf	89	GLY	C-N-CA	6.59	126.61	119.89
1	gR	183	ASN	OD1-CG-ND2	-6.59	116.01	122.60
1	gV	116	GLY	CA-C-N	6.59	129.01	120.44
1	gV	116	GLY	C-N-CA	6.59	129.01	120.44
1	hh	74	ASN	N-CA-C	6.59	118.12	111.07
1	hl	205	LEU	N-CA-C	6.59	118.12	111.07
1	hs	186	THR	N-CA-CB	6.59	119.76	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hG	109	SER	CA-C-O	6.59	127.35	120.30
1	hP	23	TRP	CB-CG-CD2	-6.59	117.58	126.80
1	i5	131	LYS	N-CA-C	6.59	118.12	111.07
1	ie	55	MET	CG-SD-CE	-6.59	86.40	100.90
1	ig	54	THR	O-C-N	-6.59	115.28	122.07
1	iA	98	GLU	CA-C-N	6.59	126.55	119.76
1	iA	98	GLU	C-N-CA	6.59	126.55	119.76
1	1S	229	ARG	NE-CZ-NH2	6.59	125.13	119.20
1	jH	57	ASN	OD1-CG-ND2	6.59	129.19	122.60
1	jH	154	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	jT	59	VAL	N-CA-C	6.59	117.83	108.93
1	kj	155	GLN	OE1-CD-NE2	-6.59	116.01	122.60
1	kT	117	TRP	CB-CG-CD1	-6.59	117.02	126.90
1	ln	115	ILE	CA-C-N	6.59	127.30	119.98
1	ln	115	ILE	C-N-CA	6.59	127.30	119.98
1	lI	145	TYR	N-CA-C	6.59	120.79	113.21
1	lK	53	ASN	CA-CB-CG	-6.59	106.01	112.60
1	lN	48	THR	N-CA-CB	6.59	119.24	109.88
1	2b	77	ALA	CA-C-N	6.59	129.01	120.44
1	2b	77	ALA	C-N-CA	6.59	129.01	120.44
1	2b	111	LEU	O-C-N	-6.59	115.14	122.12
1	2E	3	VAL	N-CA-C	-6.59	99.09	108.65
1	2L	33	SER	CB-CA-C	6.59	118.79	108.84
1	2V	11	VAL	O-C-N	-6.59	116.05	123.10
1	2Y	50	GLN	CA-C-N	6.59	129.11	120.28
1	2Y	50	GLN	C-N-CA	6.59	129.11	120.28
1	3d	161	PHE	N-CA-C	6.59	118.46	111.28
1	3C	54	THR	CA-C-N	6.59	129.01	120.44
1	3C	54	THR	C-N-CA	6.59	129.01	120.44
1	3F	40	PHE	N-CA-C	6.59	118.12	111.07
1	3Z	52	LEU	CA-C-N	6.59	129.00	120.44
1	3Z	52	LEU	C-N-CA	6.59	129.00	120.44
1	47	9	GLN	O-C-N	-6.59	114.55	122.65
1	4S	189	LEU	N-CA-CB	-6.59	100.43	110.12
1	4U	49	PRO	CB-CA-C	6.59	122.43	111.56
1	55	124	ILE	CA-C-O	6.59	122.81	119.12
1	5z	102	SER	N-CA-C	6.59	118.46	111.28
1	65	64	ALA	CA-C-N	6.59	130.32	120.31
1	65	64	ALA	C-N-CA	6.59	130.32	120.31
1	6m	52	LEU	CA-C-N	6.59	129.11	120.28
1	6m	52	LEU	C-N-CA	6.59	129.11	120.28
1	6I	92	GLU	O-C-N	-6.59	116.41	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Y	78	ALA	O-C-N	-6.59	115.28	122.07
1	6Z	23	TRP	CA-C-O	6.59	127.74	120.82
1	8f	102	SER	CA-C-O	6.59	127.55	119.97
1	8L	170	LYS	CG-CD-CE	6.59	126.46	111.30
1	8P	30	LYS	N-CA-CB	6.59	120.22	110.33
1	90	62	HIS	CB-CG-CD2	-6.59	122.64	131.20
1	9e	145	TYR	CA-C-N	6.59	130.44	121.74
1	9e	145	TYR	C-N-CA	6.59	130.44	121.74
1	9u	98	GLU	N-CA-C	6.59	118.97	109.48
1	9V	187	GLU	N-CA-CB	-6.59	100.44	110.26
1	9Z	140	LYS	N-CA-C	6.59	118.46	111.28
1	aI	112	GLN	N-CA-CB	-6.59	99.45	110.39
1	aJ	112	GLN	O-C-N	-6.59	115.24	122.09
1	aQ	25	LYS	N-CA-C	6.59	118.46	111.28
1	bm	61	GLY	N-CA-C	6.59	124.53	112.27
1	cC	180	GLU	CA-C-N	6.59	129.78	120.42
1	cC	180	GLU	C-N-CA	6.59	129.78	120.42
1	d5	112	GLN	CA-C-N	6.59	129.11	120.28
1	d5	112	GLN	C-N-CA	6.59	129.11	120.28
1	dc	34	PRO	CA-C-O	-6.59	109.76	119.18
1	dk	68	MET	O-C-N	-6.59	115.14	122.12
1	dl	84	HIS	CA-CB-CG	-6.59	107.21	113.80
1	dn	12	HIS	ND1-CE1-NE2	6.59	114.99	108.40
1	dV	218	CYS	N-CA-CB	6.59	121.63	110.49
1	dX	70	LYS	CA-C-N	6.59	129.01	120.44
1	dX	70	LYS	C-N-CA	6.59	129.01	120.44
1	e2	175	GLU	CB-CA-C	6.59	120.62	109.75
1	e9	33	SER	CA-C-N	6.59	126.72	119.87
1	e9	33	SER	C-N-CA	6.59	126.72	119.87
1	fx	221	VAL	N-CA-C	6.59	121.27	112.04
1	fy	149	SER	CA-C-N	6.59	129.10	120.60
1	fy	149	SER	C-N-CA	6.59	129.10	120.60
1	fz	52	LEU	N-CA-C	6.59	118.46	111.28
1	1y	187	GLU	CA-C-O	6.59	127.53	120.55
1	F	84	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	F	212	GLU	N-CA-C	6.59	119.02	111.11
1	M	15	ILE	CB-CA-C	6.59	120.37	111.28
1	1C	19	THR	N-CA-CB	6.59	119.80	110.12
1	gs	67	GLN	O-C-N	-6.59	114.17	122.27
1	gE	171	THR	CA-C-N	6.59	130.32	120.31
1	gE	171	THR	C-N-CA	6.59	130.32	120.31
1	hV	67	GLN	OE1-CD-NE2	-6.59	116.01	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ia	64	ALA	CA-C-N	6.59	129.65	120.29
1	ia	64	ALA	C-N-CA	6.59	129.65	120.29
1	ia	193	ASN	N-CA-C	-6.59	104.47	113.30
1	iJ	151	LEU	O-C-N	-6.59	114.97	122.09
1	je	67	GLN	N-CA-CB	6.59	119.91	110.16
1	20	75	GLU	O-C-N	-6.59	115.14	122.12
1	lI	137	GLY	O-C-N	-6.59	115.80	122.19
1	2N	84	HIS	CA-CB-CG	-6.59	107.21	113.80
1	2N	121	ASN	CB-CA-C	-6.59	101.30	110.13
1	3c	128	GLU	N-CA-CB	-6.59	100.44	110.12
1	3m	33	SER	N-CA-CB	6.59	118.87	109.78
1	4z	89	GLY	O-C-N	-6.59	115.18	121.77
1	5Z	51	ASP	CA-C-O	-6.59	113.57	120.55
1	6m	118	MET	CA-C-O	6.59	127.54	119.11
1	8c	171	THR	CA-C-N	6.59	129.11	120.28
1	8c	171	THR	C-N-CA	6.59	129.11	120.28
1	8q	145	TYR	CB-CG-CD1	-6.59	110.92	120.80
1	9F	97	ARG	NH1-CZ-NH2	-6.59	110.73	119.30
1	9M	14	ALA	N-CA-C	6.59	119.31	110.35
1	as	120	HIS	ND1-CE1-NE2	6.59	114.99	108.40
1	aK	203	LYS	N-CA-C	6.59	118.54	111.36
1	aK	223	GLY	CA-C-N	6.59	128.07	119.84
1	aK	223	GLY	C-N-CA	6.59	128.07	119.84
1	aU	178	SER	CA-C-N	6.59	129.00	120.44
1	aU	178	SER	C-N-CA	6.59	129.00	120.44
1	aW	223	GLY	O-C-N	-6.59	115.18	121.77
1	1a	84	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	c5	79	GLU	N-CA-C	6.59	118.46	111.28
1	cm	73	ILE	O-C-N	-6.59	115.48	121.87
1	cC	159	GLU	N-CA-C	6.59	119.17	109.42
1	er	172	LEU	CA-C-N	6.59	129.77	120.28
1	er	172	LEU	C-N-CA	6.59	129.77	120.28
1	eu	131	LYS	N-CA-C	6.59	119.02	111.11
1	eV	124	ILE	CA-C-N	6.59	128.07	119.84
1	eV	124	ILE	C-N-CA	6.59	128.07	119.84
1	eX	54	THR	CA-C-O	-6.59	113.85	120.90
1	1u	139	ASN	CA-CB-CG	6.59	119.19	112.60
1	f9	176	GLN	N-CA-C	6.59	120.74	111.52
1	fj	51	ASP	CB-CA-C	-6.59	99.65	110.85
1	j	86	VAL	CA-C-N	6.59	129.40	120.44
1	j	86	VAL	C-N-CA	6.59	129.40	120.44
1	U	23	TRP	CB-CA-C	6.59	121.22	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	83	LEU	O-C-N	-6.59	115.14	122.12
1	gr	214	MET	O-C-N	-6.59	115.29	122.07
1	gO	14	ALA	CA-C-N	6.59	133.83	121.97
1	gO	14	ALA	C-N-CA	6.59	133.83	121.97
1	h9	51	ASP	CA-CB-CG	-6.59	106.01	112.60
1	hk	198	CYS	CA-C-N	6.59	129.77	120.28
1	hk	198	CYS	C-N-CA	6.59	129.77	120.28
1	hr	84	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	hs	161	PHE	CA-C-O	6.59	127.73	120.82
1	hZ	54	THR	CA-C-O	-6.59	113.90	120.82
1	iC	65	ALA	N-CA-C	6.59	118.12	111.07
1	iD	129	ILE	CA-C-N	6.59	129.64	120.29
1	iD	129	ILE	C-N-CA	6.59	129.64	120.29
1	iF	73	ILE	N-CA-CB	6.59	119.00	110.57
1	j0	194	ALA	N-CA-C	6.59	119.31	110.35
1	jm	68	MET	CG-SD-CE	-6.59	86.41	100.90
1	jy	167	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	jZ	103	ASP	N-CA-CB	6.59	120.49	110.28
1	k4	42	ALA	CA-C-N	6.59	130.00	120.38
1	k4	42	ALA	C-N-CA	6.59	130.00	120.38
1	kc	150	ILE	CA-C-O	6.59	127.60	119.43
1	ki	66	MET	CA-C-O	-6.59	113.57	120.55
1	21	56	LEU	CA-C-N	6.59	129.11	120.28
1	21	56	LEU	C-N-CA	6.59	129.11	120.28
1	km	172	LEU	N-CA-C	6.59	119.30	111.33
1	kO	135	ILE	CA-C-O	6.59	127.80	120.95
1	kW	126	VAL	CA-C-O	-6.59	114.10	120.95
1	2d	45	GLU	N-CA-C	6.59	118.15	110.97
1	2f	112	GLN	N-CA-C	6.59	118.46	111.28
1	2W	72	THR	CA-C-N	6.59	129.49	120.46
1	2W	72	THR	C-N-CA	6.59	129.49	120.46
1	3b	158	LYS	O-C-N	-6.59	114.22	122.19
1	3w	87	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	3x	51	ASP	CA-CB-CG	-6.59	106.01	112.60
1	3B	137	GLY	CA-C-N	6.59	129.00	120.44
1	3B	137	GLY	C-N-CA	6.59	129.00	120.44
1	3P	20	LEU	O-C-N	-6.59	114.64	122.15
1	41	84	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	48	82	ARG	NE-CZ-NH2	-6.59	113.27	119.20
1	4g	202	LEU	N-CA-C	6.59	118.46	111.28
1	4z	206	GLY	O-C-N	-6.59	115.18	121.77
1	4M	14	ALA	N-CA-C	6.59	120.14	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4P	14	ALA	CA-C-O	6.59	129.04	121.47
1	5r	48	THR	CA-C-N	6.59	126.36	119.05
1	5r	48	THR	C-N-CA	6.59	126.36	119.05
1	5H	141	ILE	N-CA-C	6.59	117.28	110.36
1	5R	189	LEU	N-CA-C	6.59	118.12	111.07
1	5Y	4	GLN	CA-C-O	6.59	129.93	120.51
1	61	84	HIS	CB-CG-CD2	-6.59	122.64	131.20
1	6w	149	SER	CB-CA-C	6.59	121.58	109.46
1	6Q	124	ILE	CB-CA-C	-6.59	103.55	110.53
1	6Z	161	PHE	N-CA-C	6.59	119.84	109.96
1	76	97	ARG	N-CA-CB	6.59	119.65	110.17
1	7m	62	HIS	ND1-CE1-NE2	6.59	114.99	108.40
1	7x	149	SER	O-C-N	-6.59	114.41	122.25
1	7L	86	VAL	N-CA-C	6.59	123.04	109.34
1	7O	15	ILE	N-CA-C	6.59	118.29	108.54
1	7Z	122	PRO	N-CD-CG	-6.59	95.90	103.80
1	8m	168	PHE	O-C-N	-6.59	115.18	122.03
1	8s	45	GLU	N-CA-C	6.59	120.39	110.64
1	8C	206	GLY	N-CA-C	6.59	125.78	112.34
1	9j	88	ALA	N-CA-C	6.59	119.31	110.35
1	9H	78	ALA	N-CA-C	6.59	119.01	111.11
1	9I	65	ALA	N-CA-C	6.59	118.46	111.28
1	9J	7	GLN	OE1-CD-NE2	-6.59	116.01	122.60
1	ad	171	THR	N-CA-CB	6.59	120.36	110.22
1	aN	56	LEU	CA-C-N	6.59	129.11	120.28
1	aN	56	LEU	C-N-CA	6.59	129.11	120.28
1	aX	12	HIS	CB-CG-CD2	-6.59	122.64	131.20
1	bi	152	ASP	CA-CB-CG	6.59	119.19	112.60
1	by	84	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	cg	115	ILE	CA-C-N	6.59	127.25	119.94
1	cg	115	ILE	C-N-CA	6.59	127.25	119.94
1	cj	62	HIS	N-CA-C	6.59	120.26	111.30
1	1e	8	GLY	O-C-N	-6.59	116.89	123.48
1	cO	226	HIS	CE1-NE2-CD2	-6.59	102.41	109.00
1	d7	125	PRO	CA-C-N	6.59	129.82	120.53
1	d7	125	PRO	C-N-CA	6.59	129.82	120.53
1	dD	207	PRO	O-C-N	-6.59	113.75	122.64
1	dG	18	ARG	N-CA-C	-6.59	104.72	112.89
1	dX	138	LEU	CA-C-N	6.59	129.00	120.44
1	dX	138	LEU	C-N-CA	6.59	129.00	120.44
1	ej	140	LYS	N-CA-C	6.59	118.12	111.07
1	eL	213	GLU	CA-C-N	6.59	129.10	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eL	213	GLU	C-N-CA	6.59	129.10	120.28
1	f1	101	GLY	CA-C-N	6.59	129.11	120.28
1	f1	101	GLY	C-N-CA	6.59	129.11	120.28
1	fa	50	GLN	N-CA-C	6.59	119.28	111.71
1	1x	100	ARG	NE-CZ-NH1	6.59	128.09	121.50
1	fL	69	LEU	N-CA-C	6.59	118.46	111.28
1	fY	28	GLU	O-C-N	-6.59	115.03	122.08
1	0	211	LEU	O-C-N	-6.59	115.14	122.12
1	m	197	ASP	N-CA-C	6.59	119.30	111.33
1	h7	12	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	j0	34	PRO	N-CA-CB	-6.58	95.92	103.30
1	j1	174	ALA	N-CA-CB	-6.58	100.92	110.47
1	kX	84	HIS	CB-CG-CD2	-6.58	122.64	131.20
1	l3	101	GLY	CA-C-N	6.58	130.32	120.31
1	l3	101	GLY	C-N-CA	6.58	130.32	120.31
1	28	137	GLY	CA-C-N	6.58	129.10	120.28
1	28	137	GLY	C-N-CA	6.58	129.10	120.28
1	3z	133	TRP	O-C-N	-6.58	114.17	122.27
1	4K	112	GLN	N-CA-C	6.58	118.46	111.28
1	5u	145	TYR	CB-CG-CD2	-6.58	110.92	120.80
1	5z	29	GLU	CA-C-O	6.58	127.30	119.60
1	5S	121	ASN	CA-CB-CG	-6.58	106.02	112.60
1	6l	89	GLY	O-C-N	-6.58	115.19	121.77
1	6A	148	THR	CA-CB-OG1	6.58	119.48	109.60
1	6M	82	ARG	NE-CZ-NH1	6.58	128.09	121.50
1	77	179	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	7A	203	LYS	N-CA-C	6.58	118.46	111.28
1	7O	137	GLY	CA-C-N	6.58	129.10	120.28
1	7O	137	GLY	C-N-CA	6.58	129.10	120.28
1	8d	204	ALA	CA-C-O	6.58	127.95	120.90
1	a0	79	GLU	N-CA-C	6.58	118.54	111.36
1	bY	133	TRP	N-CA-C	6.58	118.46	111.28
1	c4	188	THR	CA-C-N	6.58	129.40	120.38
1	c4	188	THR	C-N-CA	6.58	129.40	120.38
1	1d	176	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	d6	39	MET	CA-C-N	6.58	129.00	120.44
1	d6	39	MET	C-N-CA	6.58	129.00	120.44
1	dH	63	GLN	O-C-N	-6.58	112.82	122.43
1	dU	123	PRO	N-CA-CB	6.58	109.05	103.25
1	e4	73	ILE	CA-C-N	6.58	129.43	120.54
1	e4	73	ILE	C-N-CA	6.58	129.43	120.54
1	ev	229	ARG	CG-CD-NE	-6.58	97.51	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f3	41	SER	CA-C-N	6.58	129.10	120.28
1	f3	41	SER	C-N-CA	6.58	129.10	120.28
1	fl	98	GLU	N-CA-C	6.58	119.17	110.08
1	fS	82	ARG	NH1-CZ-NH2	-6.58	110.74	119.30
1	gc	143	ARG	NE-CZ-NH2	-6.58	113.27	119.20
1	1C	67	GLN	N-CA-C	6.58	118.46	111.28
1	gx	229	ARG	CA-C-N	6.58	129.50	120.35
1	gx	229	ARG	C-N-CA	6.58	129.50	120.35
1	gZ	145	TYR	N-CA-C	6.58	118.46	111.28
1	h1	58	THR	CA-C-O	-6.58	111.82	119.59
1	h6	61	GLY	N-CA-C	6.58	120.63	112.14
1	hk	193	ASN	CA-C-O	6.58	127.26	119.56
1	hx	165	VAL	CB-CA-C	-6.58	103.25	112.14
1	hY	139	ASN	OD1-CG-ND2	-6.58	116.02	122.60
1	1Q	84	HIS	CA-C-O	-6.58	114.74	121.32
1	iZ	75	GLU	N-CA-C	6.58	118.11	111.07
1	j9	41	SER	O-C-N	-6.58	115.14	122.12
1	jn	107	THR	CA-C-O	-6.58	113.44	120.42
1	jp	52	LEU	CA-C-N	6.58	129.00	120.44
1	jp	52	LEU	C-N-CA	6.58	129.00	120.44
1	jN	176	GLN	CA-C-N	6.58	130.06	120.71
1	jN	176	GLN	C-N-CA	6.58	130.06	120.71
1	l8	191	VAL	CA-C-N	6.58	129.00	120.44
1	l8	191	VAL	C-N-CA	6.58	129.00	120.44
1	lf	173	ARG	NH1-CZ-NH2	-6.58	110.74	119.30
1	28	202	LEU	CA-C-O	6.58	127.54	119.97
1	lw	93	PRO	N-CA-CB	6.58	109.08	103.35
1	ly	50	GLN	CA-C-N	6.58	129.00	120.44
1	ly	50	GLN	C-N-CA	6.58	129.00	120.44
1	2f	26	VAL	CA-C-O	-6.58	114.19	121.17
1	2o	143	ARG	N-CA-C	6.58	118.46	111.28
1	2H	5	ASN	CA-C-N	6.58	134.12	121.54
1	2H	5	ASN	C-N-CA	6.58	134.12	121.54
1	2K	206	GLY	O-C-N	-6.58	115.19	121.77
1	3p	166	ASP	CA-CB-CG	6.58	119.18	112.60
1	3G	34	PRO	N-CA-CB	6.58	110.06	103.48
1	4b	108	THR	O-C-N	-6.58	115.41	122.19
1	4p	72	THR	CA-C-N	6.58	129.09	120.60
1	4p	72	THR	C-N-CA	6.58	129.09	120.60
1	4r	76	GLU	CA-C-N	6.58	129.76	120.28
1	4r	76	GLU	C-N-CA	6.58	129.76	120.28
1	55	223	GLY	CA-C-N	6.58	126.17	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	55	223	GLY	C-N-CA	6.58	126.17	119.19
1	5q	48	THR	O-C-N	-6.58	114.16	121.53
1	5Y	140	LYS	CA-C-N	6.58	128.85	120.56
1	5Y	140	LYS	C-N-CA	6.58	128.85	120.56
1	6a	70	LYS	O-C-N	-6.58	115.24	122.09
1	6r	101	GLY	O-C-N	-6.58	115.86	122.18
1	6Q	201	ILE	CA-C-N	6.58	131.84	120.58
1	6Q	201	ILE	C-N-CA	6.58	131.84	120.58
1	71	119	THR	CA-C-O	6.58	126.95	119.18
1	7y	86	VAL	N-CA-CB	6.58	118.41	110.31
1	7Q	217	ALA	N-CA-C	6.58	119.63	108.90
1	83	191	VAL	N-CA-C	-6.58	104.05	113.07
1	8b	96	MET	CA-C-N	6.58	130.50	120.82
1	8b	96	MET	C-N-CA	6.58	130.50	120.82
1	8e	154	ARG	CB-CG-CD	6.58	126.44	111.30
1	8A	186	THR	CA-C-N	6.58	129.39	120.44
1	8A	186	THR	C-N-CA	6.58	129.39	120.44
1	8U	18	ARG	O-C-N	-6.58	115.14	122.12
1	8Z	10	MET	N-CA-C	6.58	120.22	110.48
1	9u	17	PRO	CB-CA-C	6.58	121.72	112.11
1	a8	130	TYR	CA-C-N	6.58	129.64	120.29
1	a8	130	TYR	C-N-CA	6.58	129.64	120.29
1	aw	120	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	aG	75	GLU	CB-CA-C	-6.58	100.55	110.88
1	aS	115	ILE	O-C-N	-6.58	115.48	121.87
1	b3	66	MET	O-C-N	-6.58	115.14	122.12
1	bI	226	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	c3	169	TYR	N-CA-C	6.58	120.52	112.23
1	cK	82	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	d0	73	ILE	O-C-N	-6.58	115.48	121.87
1	d5	32	PHE	CA-CB-CG	-6.58	107.22	113.80
1	d9	215	MET	O-C-N	6.58	129.92	122.22
1	db	23	TRP	CB-CG-CD2	6.58	136.02	126.80
1	dt	47	ALA	CA-C-N	6.58	130.67	120.60
1	dt	47	ALA	C-N-CA	6.58	130.67	120.60
1	dT	86	VAL	O-C-N	-6.58	114.92	122.62
1	ec	209	ALA	CA-C-O	-6.58	114.59	122.03
1	ed	211	LEU	O-C-N	-6.58	113.66	122.22
1	ey	197	ASP	CA-C-O	-6.58	113.83	121.07
1	eU	132	ARG	N-CA-C	6.58	119.46	111.82
1	eU	204	ALA	N-CA-C	6.58	118.46	111.28
1	fc	174	ALA	N-CA-C	6.58	121.31	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fl	182	LYS	O-C-N	-6.58	115.29	122.07
1	fv	140	LYS	N-CA-CB	6.58	119.91	110.16
1	fO	136	LEU	CA-C-O	6.58	127.73	120.82
1	a	187	GLU	N-CA-C	6.58	118.25	111.14
1	s	104	ILE	O-C-N	6.58	128.26	121.87
1	t	195	ASN	CA-CB-CG	6.58	119.18	112.60
1	v	207	PRO	CA-C-N	6.58	131.74	122.46
1	v	207	PRO	C-N-CA	6.58	131.74	122.46
1	F	114	GLN	CA-C-N	6.58	129.48	120.46
1	F	114	GLN	C-N-CA	6.58	129.48	120.46
1	O	206	GLY	O-C-N	-6.58	115.19	121.77
1	gb	12	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	gd	87	HIS	CA-CB-CG	-6.58	107.22	113.80
1	gm	48	THR	N-CA-CB	6.58	117.38	109.74
1	gC	223	GLY	CA-C-O	-6.58	115.60	122.38
1	gS	4	GLN	N-CA-C	6.58	119.83	109.96
1	hf	181	VAL	N-CA-C	6.58	117.27	110.36
1	hi	140	LYS	CG-CD-CE	6.58	126.44	111.30
1	hr	195	ASN	O-C-N	-6.58	114.89	121.27
1	hS	47	ALA	CB-CA-C	-6.58	99.50	110.29
1	hU	120	HIS	CB-CG-CD2	-6.58	122.64	131.20
1	i6	122	PRO	CA-C-N	6.58	126.96	119.92
1	i6	122	PRO	C-N-CA	6.58	126.96	119.92
1	iz	59	VAL	N-CA-C	6.58	118.28	108.54
1	1V	97	ARG	O-C-N	-6.58	114.39	122.82
1	jS	84	HIS	CB-CG-CD2	6.58	139.75	131.20
1	k4	182	LYS	N-CA-C	6.58	119.29	111.33
1	km	114	GLN	CB-CA-C	6.58	121.21	110.88
1	ks	179	GLN	N-CA-C	6.58	119.05	111.02
1	l1	97	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	lb	24	VAL	CA-CB-CG2	-6.58	99.21	110.40
1	li	193	ASN	OD1-CG-ND2	-6.58	116.02	122.60
1	ll	44	SER	N-CA-C	6.58	120.22	112.72
1	2a	36	VAL	CA-C-O	6.58	126.18	119.20
1	lP	224	PRO	N-CA-C	6.58	122.09	113.86
1	2f	206	GLY	CA-C-N	6.58	127.76	120.45
1	2f	206	GLY	C-N-CA	6.58	127.76	120.45
1	2y	113	GLU	CA-C-N	6.58	129.39	120.44
1	2y	113	GLU	C-N-CA	6.58	129.39	120.44
1	2P	169	TYR	CA-C-N	6.58	129.42	120.54
1	2P	169	TYR	C-N-CA	6.58	129.42	120.54
1	2X	75	GLU	N-CA-C	6.58	118.11	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	98	GLU	CA-C-N	6.58	126.94	119.83
1	48	98	GLU	C-N-CA	6.58	126.94	119.83
1	4h	124	ILE	O-C-N	-6.58	116.33	121.46
1	4Y	51	ASP	CA-C-N	6.58	129.10	120.28
1	4Y	51	ASP	C-N-CA	6.58	129.10	120.28
1	55	124	ILE	N-CA-CB	6.58	118.50	111.20
1	5m	53	ASN	O-C-N	-6.58	115.14	122.12
1	5A	189	LEU	N-CA-C	6.58	119.29	111.33
1	5C	217	ALA	CA-C-O	6.58	129.92	120.51
1	5D	129	ILE	O-C-N	-6.58	115.46	121.91
1	5Y	146	SER	CA-C-O	-6.58	112.58	118.63
1	6d	191	VAL	O-C-N	-6.58	115.34	122.05
1	6x	69	LEU	N-CA-C	6.58	118.11	111.07
1	6C	87	HIS	N-CA-CB	-6.58	100.69	110.17
1	6D	9	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	6N	137	GLY	N-CA-C	6.58	121.19	112.77
1	6O	124	ILE	N-CA-C	-6.58	101.11	107.76
1	7o	10	MET	O-C-N	-6.58	114.83	122.93
1	7t	226	HIS	CA-CB-CG	-6.58	107.22	113.80
1	7K	219	GLN	N-CA-C	6.58	120.60	110.20
1	7Z	169	TYR	CA-C-O	6.58	127.53	120.55
1	8i	20	LEU	CA-C-O	6.58	127.73	120.82
1	8s	84	HIS	ND1-CE1-NE2	6.58	114.98	108.40
1	8y	41	SER	CA-C-O	6.58	127.53	120.55
1	98	170	LYS	CA-C-N	6.58	129.10	120.28
1	98	170	LYS	C-N-CA	6.58	129.10	120.28
1	9m	69	LEU	N-CA-C	6.58	119.29	111.33
1	9s	94	GLY	O-C-N	-6.58	116.58	122.77
1	9E	117	TRP	CA-C-O	6.58	127.94	120.90
1	9X	42	ALA	N-CA-C	6.58	118.45	111.28
1	aL	110	THR	CA-C-N	6.58	129.40	120.38
1	aL	110	THR	C-N-CA	6.58	129.40	120.38
1	aT	69	LEU	CA-C-N	6.58	129.10	120.28
1	aT	69	LEU	C-N-CA	6.58	129.10	120.28
1	aU	58	THR	N-CA-CB	6.58	120.48	110.28
1	b5	21	ASN	O-C-N	-6.58	115.14	122.12
1	b7	35	GLU	CA-C-N	6.58	129.81	120.53
1	b7	35	GLU	C-N-CA	6.58	129.81	120.53
1	bq	57	ASN	OD1-CG-ND2	6.58	129.18	122.60
1	18	51	ASP	CA-C-N	6.58	129.10	120.28
1	18	51	ASP	C-N-CA	6.58	129.10	120.28
1	bw	198	CYS	O-C-N	-6.58	115.06	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bG	161	PHE	CA-C-N	6.58	129.00	120.44
1	bG	161	PHE	C-N-CA	6.58	129.00	120.44
1	bY	82	ARG	N-CA-C	6.58	118.45	111.28
1	cj	81	ASP	O-C-N	-6.58	115.14	122.12
1	cj	98	GLU	CA-C-N	6.58	127.10	119.99
1	cj	98	GLU	C-N-CA	6.58	127.10	119.99
1	dn	173	ARG	NH1-CZ-NH2	-6.58	110.75	119.30
1	dx	121	ASN	OD1-CG-ND2	-6.58	116.02	122.60
1	1l	132	ARG	NH1-CZ-NH2	-6.58	110.74	119.30
1	dA	185	MET	CG-SD-CE	-6.58	86.42	100.90
1	dE	202	LEU	O-C-N	-6.58	115.14	122.12
1	dY	217	ALA	CA-C-O	-6.58	115.10	122.01
1	ef	154	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	eM	146	SER	CA-C-N	6.58	126.96	119.92
1	eM	146	SER	C-N-CA	6.58	126.96	119.92
1	eR	167	ARG	N-CA-C	6.58	118.45	111.28
1	fe	126	VAL	O-C-N	-6.58	115.46	121.91
1	fp	175	GLU	O-C-N	-6.58	114.92	123.02
1	fu	174	ALA	N-CA-C	6.58	118.53	111.36
1	fw	80	TRP	CA-C-N	6.58	129.10	120.28
1	fw	80	TRP	C-N-CA	6.58	129.10	120.28
1	fJ	23	TRP	N-CA-C	6.58	118.11	111.07
1	a	124	ILE	O-C-N	6.58	128.60	121.10
1	b	132	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	g	188	THR	CA-C-N	6.58	129.00	120.44
1	g	188	THR	C-N-CA	6.58	129.00	120.44
1	4	194	ALA	CA-C-O	6.58	129.49	121.99
1	T	149	SER	N-CA-C	6.58	120.34	108.69
1	W	202	LEU	CA-C-N	6.58	129.00	120.44
1	W	202	LEU	C-N-CA	6.58	129.00	120.44
1	gw	133	TRP	CA-C-N	6.58	128.85	120.56
1	gw	133	TRP	C-N-CA	6.58	128.85	120.56
1	gF	219	GLN	N-CA-C	6.58	119.77	110.23
1	hO	72	THR	CA-C-N	6.58	129.09	120.60
1	hO	72	THR	C-N-CA	6.58	129.09	120.60
1	hT	15	ILE	CA-C-N	6.58	130.76	121.61
1	hT	15	ILE	C-N-CA	6.58	130.76	121.61
1	jG	26	VAL	CA-CB-CG1	6.58	121.58	110.40
1	jV	156	GLY	N-CA-C	-6.58	104.01	112.10
1	20	15	ILE	N-CA-C	6.58	118.07	109.58
1	kw	87	HIS	CA-C-O	6.58	126.65	119.15
1	kx	86	VAL	CA-CB-CG1	-6.58	99.21	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ld	30	LYS	N-CA-CB	-6.58	100.95	110.56
1	27	57	ASN	CA-C-N	6.58	129.10	120.28
1	27	57	ASN	C-N-CA	6.58	129.10	120.28
1	2N	37	ILE	N-CA-C	6.58	122.15	112.61
1	2T	14	ALA	N-CA-C	6.58	119.91	110.10
1	2Y	14	ALA	CA-C-N	6.58	129.93	120.98
1	2Y	14	ALA	C-N-CA	6.58	129.93	120.98
1	3b	163	ASP	N-CA-CB	6.58	120.48	110.28
1	3h	16	SER	O-C-N	-6.58	113.75	121.32
1	3j	75	GLU	CA-C-N	6.58	128.99	120.44
1	3j	75	GLU	C-N-CA	6.58	128.99	120.44
1	3y	195	ASN	CA-C-O	-6.58	113.53	120.70
1	3I	108	THR	CA-CB-OG1	6.58	119.47	109.60
1	3T	201	ILE	N-CA-C	6.58	116.72	110.53
1	40	78	ALA	CA-C-O	6.58	127.39	120.42
1	48	138	LEU	CA-C-O	-6.58	113.91	120.82
1	4x	128	GLU	CB-CA-C	-6.58	99.67	110.85
1	4I	205	LEU	CA-C-N	6.58	132.20	121.87
1	4I	205	LEU	C-N-CA	6.58	132.20	121.87
1	5F	161	PHE	CA-C-N	6.58	129.10	120.28
1	5F	161	PHE	C-N-CA	6.58	129.10	120.28
1	6A	176	GLN	CB-CG-CD	6.58	123.78	112.60
1	8a	139	ASN	N-CA-C	6.58	119.28	111.71
1	8c	16	SER	N-CA-CB	6.58	120.97	110.11
1	8e	114	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	8m	97	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	9n	6	LEU	CA-C-O	6.58	127.62	120.32
1	ag	63	GLN	N-CA-C	6.58	118.45	111.28
1	ap	25	LYS	CA-C-O	6.58	127.73	120.82
1	14	15	ILE	CA-C-N	6.58	129.83	120.49
1	14	15	ILE	C-N-CA	6.58	129.83	120.49
1	bp	133	TRP	CB-CG-CD1	6.58	136.77	126.90
1	bq	116	GLY	CA-C-N	6.58	129.63	120.29
1	bq	116	GLY	C-N-CA	6.58	129.63	120.29
1	bw	173	ARG	NH1-CZ-NH2	-6.58	110.75	119.30
1	bG	78	ALA	CA-C-N	6.58	130.31	120.31
1	bG	78	ALA	C-N-CA	6.58	130.31	120.31
1	bN	63	GLN	O-C-N	-6.58	113.38	122.46
1	cb	126	VAL	CA-C-N	6.58	127.24	119.94
1	cb	126	VAL	C-N-CA	6.58	127.24	119.94
1	dw	69	LEU	N-CA-C	6.58	118.45	111.28
1	dI	226	HIS	CE1-NE2-CD2	-6.58	102.42	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	173	ARG	O-C-N	6.58	130.36	122.27
1	ec	143	ARG	O-C-N	-6.58	115.29	122.07
1	ej	121	ASN	OD1-CG-ND2	-6.58	116.02	122.60
1	eM	12	HIS	CA-C-N	6.58	130.91	121.50
1	eM	12	HIS	C-N-CA	6.58	130.91	121.50
1	eR	70	LYS	CA-C-N	6.58	129.99	120.38
1	eR	70	LYS	C-N-CA	6.58	129.99	120.38
1	eV	182	LYS	O-C-N	-6.58	115.14	122.12
1	fi	15	ILE	O-C-N	-6.58	116.41	122.79
1	fi	197	ASP	N-CA-C	-6.58	105.25	113.28
1	gg	96	MET	CA-C-N	6.58	131.99	120.87
1	gg	96	MET	C-N-CA	6.58	131.99	120.87
1	gL	63	GLN	N-CA-C	6.58	118.45	111.28
1	gP	182	LYS	CA-C-N	6.58	128.99	120.44
1	gP	182	LYS	C-N-CA	6.58	128.99	120.44
1	hm	126	VAL	N-CA-C	6.58	117.33	110.62
1	hN	100	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	i3	202	LEU	N-CA-C	6.58	119.27	111.71
1	il	213	GLU	CA-C-N	6.58	128.99	120.44
1	il	213	GLU	C-N-CA	6.58	128.99	120.44
1	im	223	GLY	CA-C-N	6.58	126.20	119.56
1	im	223	GLY	C-N-CA	6.58	126.20	119.56
1	iu	122	PRO	CA-C-N	6.58	126.53	119.76
1	iu	122	PRO	C-N-CA	6.58	126.53	119.76
1	iS	218	CYS	CB-CA-C	6.58	120.24	111.82
1	j7	52	LEU	N-CA-C	6.58	118.11	111.07
1	ji	93	PRO	N-CA-CB	-6.58	97.79	103.32
1	jo	226	HIS	CA-C-O	-6.58	113.26	120.43
1	jr	19	THR	CA-C-N	6.58	128.99	120.44
1	jr	19	THR	C-N-CA	6.58	128.99	120.44
1	1X	130	TYR	CA-C-N	6.58	129.39	120.38
1	1X	130	TYR	C-N-CA	6.58	129.39	120.38
1	jU	50	GLN	N-CA-C	6.58	118.11	111.07
1	kb	75	GLU	CA-C-O	6.58	127.73	120.82
1	kn	21	ASN	CA-C-N	6.58	130.31	120.31
1	kn	21	ASN	C-N-CA	6.58	130.31	120.31
1	ku	96	MET	O-C-N	-6.58	115.10	122.86
1	kE	159	GLU	O-C-N	-6.58	115.44	121.30
1	kS	144	MET	N-CA-C	6.58	118.45	111.28
1	la	21	ASN	CA-C-O	6.58	127.52	120.55
1	lc	176	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	27	34	PRO	CA-C-N	6.58	129.99	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	34	PRO	C-N-CA	6.58	129.99	120.38
1	lk	166	ASP	CA-CB-CG	6.58	119.18	112.60
1	28	120	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	lu	189	LEU	N-CA-C	6.58	119.29	111.33
1	lA	53	ASN	CA-CB-CG	-6.58	106.02	112.60
1	lR	116	GLY	CA-C-N	6.58	129.42	120.54
1	lR	116	GLY	C-N-CA	6.58	129.42	120.54
1	2c	152	ASP	CA-C-N	6.58	130.05	120.91
1	2c	152	ASP	C-N-CA	6.58	130.05	120.91
1	2g	110	THR	CA-C-O	6.58	128.53	121.16
1	2I	13	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	2K	180	GLU	O-C-N	-6.58	115.25	122.09
1	3l	58	THR	N-CA-C	6.58	119.29	111.33
1	3l	208	ALA	CA-C-N	6.58	130.16	120.95
1	3l	208	ALA	C-N-CA	6.58	130.16	120.95
1	4C	129	ILE	O-C-N	-6.58	115.46	121.91
1	4E	226	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	51	81	ASP	O-C-N	-6.58	113.38	122.46
1	5k	82	ARG	NH1-CZ-NH2	-6.58	110.75	119.30
1	5q	87	HIS	CG-CD2-NE2	6.58	113.78	107.20
1	5z	50	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	5B	89	GLY	CA-C-N	6.58	128.06	119.84
1	5B	89	GLY	C-N-CA	6.58	128.06	119.84
1	5Z	135	ILE	N-CA-C	6.58	117.33	110.62
1	6e	100	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	6m	18	ARG	N-CA-CB	6.58	119.79	110.12
1	6A	173	ARG	NE-CZ-NH2	6.58	125.12	119.20
1	6S	119	THR	CA-C-N	6.58	131.99	120.87
1	6S	119	THR	C-N-CA	6.58	131.99	120.87
1	6V	90	PRO	CA-C-O	-6.58	113.66	122.08
1	7m	84	HIS	CG-CD2-NE2	6.58	113.78	107.20
1	7m	220	GLY	O-C-N	-6.58	115.69	122.60
1	7o	35	GLU	CA-C-O	6.58	127.60	119.05
1	7J	158	LYS	N-CA-C	-6.58	104.88	113.17
1	7V	62	HIS	CB-CG-CD2	-6.58	122.65	131.20
1	7W	181	VAL	CB-CA-C	6.58	120.64	112.02
1	81	203	LYS	CB-CG-CD	6.58	126.43	111.30
1	8C	69	LEU	CA-C-N	6.58	129.09	120.28
1	8C	69	LEU	C-N-CA	6.58	129.09	120.28
1	8E	190	LEU	N-CA-C	6.58	118.11	111.07
1	8H	132	ARG	CD-NE-CZ	6.58	133.61	124.40
1	8U	72	THR	CA-C-N	6.58	129.47	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8U	72	THR	C-N-CA	6.58	129.47	120.46
1	8V	160	PRO	N-CA-C	6.58	121.57	111.11
1	95	2	ILE	N-CA-C	6.58	118.06	109.58
1	9n	39	MET	N-CA-C	6.58	119.00	111.11
1	9O	29	GLU	N-CA-C	6.58	119.00	111.11
1	at	70	LYS	CA-C-O	-6.58	113.58	120.55
1	av	188	THR	O-C-N	-6.58	114.76	122.32
1	aI	85	PRO	O-C-N	-6.58	115.73	123.10
1	b9	167	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	bn	154	ARG	O-C-N	-6.58	115.57	123.27
1	1a	170	LYS	O-C-N	-6.58	115.15	122.12
1	bT	177	ALA	N-CA-C	6.58	119.30	110.35
1	bV	103	ASP	CA-C-N	6.58	129.76	120.42
1	bV	103	ASP	C-N-CA	6.58	129.76	120.42
1	cc	13	GLN	CA-C-O	6.58	128.37	120.28
1	co	216	THR	CA-C-O	6.58	127.55	119.79
1	cs	74	ASN	CA-CB-CG	-6.58	106.02	112.60
1	cK	192	GLN	OE1-CD-NE2	6.58	129.18	122.60
1	d0	152	ASP	N-CA-C	6.58	119.45	111.82
1	dh	220	GLY	O-C-N	-6.58	115.83	122.54
1	dq	132	ARG	CA-C-O	-6.58	113.58	120.55
1	dw	70	LYS	N-CA-C	6.58	119.27	111.71
1	dx	188	THR	CA-C-N	6.58	129.39	120.38
1	dx	188	THR	C-N-CA	6.58	129.39	120.38
1	e9	23	TRP	N-CA-C	6.58	118.45	111.28
1	eb	100	ARG	CA-C-N	6.58	127.28	119.98
1	eb	100	ARG	C-N-CA	6.58	127.28	119.98
1	ei	150	ILE	O-C-N	-6.58	114.83	122.07
1	f3	62	HIS	CB-CG-CD2	6.58	139.75	131.20
1	fj	142	VAL	N-CA-C	6.58	117.33	110.62
1	fl	37	ILE	O-C-N	-6.58	116.21	120.42
1	fp	181	VAL	N-CA-C	-6.58	104.08	110.72
1	fT	77	ALA	CA-C-N	6.58	129.39	120.44
1	fT	77	ALA	C-N-CA	6.58	129.39	120.44
1	fW	14	ALA	CA-C-O	6.58	129.92	120.51
1	fX	42	ALA	N-CA-C	6.58	119.00	111.11
1	q	88	ALA	N-CA-C	6.58	119.30	110.35
1	r	119	THR	N-CA-CB	6.58	121.12	110.40
1	hF	198	CYS	CA-C-N	6.58	128.99	120.44
1	hF	198	CYS	C-N-CA	6.58	128.99	120.44
1	il	103	ASP	CA-CB-CG	6.58	119.18	112.60
1	jA	152	ASP	N-CA-C	6.58	118.53	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kv	44	SER	CA-C-O	6.58	127.03	120.32
1	kH	69	LEU	CA-C-O	6.58	127.39	120.42
1	25	127	GLY	N-CA-C	6.58	120.13	112.50
1	lE	226	HIS	O-C-N	-6.58	113.84	122.59
1	3A	84	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	3B	48	THR	N-CA-CB	6.58	118.10	109.55
1	4d	55	MET	CG-SD-CE	-6.58	86.43	100.90
1	4x	66	MET	CA-C-N	6.58	129.09	120.28
1	4x	66	MET	C-N-CA	6.58	129.09	120.28
1	4L	60	GLY	O-C-N	-6.58	117.58	122.71
1	5u	4	GLN	N-CA-CB	6.58	119.71	110.04
1	5D	80	TRP	CA-C-N	6.58	129.09	120.28
1	5D	80	TRP	C-N-CA	6.58	129.09	120.28
1	7e	27	VAL	N-CA-C	6.58	117.33	110.62
1	83	159	GLU	CA-C-O	-6.58	113.57	119.75
1	8q	195	ASN	CA-CB-CG	6.58	119.18	112.60
1	8F	227	LYS	CA-C-O	6.58	128.73	121.56
1	9i	70	LYS	CA-C-O	-6.58	113.45	120.42
1	9I	204	ALA	CA-C-O	-6.58	113.92	120.82
1	9J	181	VAL	CA-C-N	6.58	128.99	120.44
1	9J	181	VAL	C-N-CA	6.58	128.99	120.44
1	9V	119	THR	OG1-CB-CG2	-6.58	96.15	109.30
1	a3	122	PRO	CA-C-N	6.58	126.55	119.78
1	a3	122	PRO	C-N-CA	6.58	126.55	119.78
1	aD	219	GLN	OE1-CD-NE2	-6.58	116.02	122.60
1	aP	63	GLN	N-CA-C	-6.58	105.26	113.28
1	bW	132	ARG	NE-CZ-NH1	6.58	128.08	121.50
1	cQ	147	PRO	N-CA-C	6.58	121.54	111.15
1	1p	23	TRP	CB-CA-C	6.58	121.71	110.79
1	fa	229	ARG	O-C-N	-6.58	115.47	123.30
1	1B	66	MET	N-CA-C	6.58	118.45	111.28
1	1D	139	ASN	CB-CA-C	-6.58	99.88	110.79
1	gE	192	GLN	N-CA-CB	6.58	119.54	110.01
1	hi	13	GLN	CA-C-O	6.58	129.44	121.68
1	hV	170	LYS	N-CA-C	6.58	118.11	111.07
1	i7	53	ASN	OD1-CG-ND2	-6.58	116.03	122.60
1	iu	137	GLY	N-CA-C	6.58	120.85	112.83
1	iC	84	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	iI	172	LEU	N-CA-C	6.58	118.45	111.28
1	j8	97	ARG	NE-CZ-NH2	6.58	125.12	119.20
1	jm	182	LYS	N-CA-C	6.58	118.45	111.28
1	ki	40	PHE	CA-C-O	6.58	127.94	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kr	87	HIS	CA-C-N	6.58	131.11	121.31
1	kr	87	HIS	C-N-CA	6.58	131.11	121.31
1	kx	195	ASN	N-CA-C	6.58	118.98	109.84
1	l8	62	HIS	ND1-CE1-NE2	6.58	114.98	108.40
1	lD	224	PRO	N-CA-C	6.58	126.02	112.47
1	2w	129	ILE	O-C-N	-6.58	115.47	121.91
1	2F	22	ALA	N-CA-C	6.58	118.53	111.36
1	2F	28	GLU	CA-C-N	6.58	129.09	120.28
1	2F	28	GLU	C-N-CA	6.58	129.09	120.28
1	2G	39	MET	CA-C-N	6.58	129.09	120.28
1	2G	39	MET	C-N-CA	6.58	129.09	120.28
1	2X	181	VAL	O-C-N	-6.58	115.06	121.83
1	35	12	HIS	CE1-NE2-CD2	-6.58	102.42	109.00
1	38	49	PRO	N-CA-CB	-6.58	95.93	103.30
1	3g	181	VAL	N-CA-CB	6.58	119.48	110.54
1	3V	10	MET	N-CA-C	6.58	119.56	110.35
1	42	174	ALA	CA-C-N	6.58	130.09	120.82
1	42	174	ALA	C-N-CA	6.58	130.09	120.82
1	4d	63	GLN	O-C-N	-6.58	114.65	122.15
1	4g	218	CYS	CA-C-N	6.58	130.30	120.31
1	4g	218	CYS	C-N-CA	6.58	130.30	120.31
1	4p	97	ARG	N-CA-C	6.58	124.81	110.80
1	4W	43	LEU	CA-C-N	6.58	132.92	122.86
1	4W	43	LEU	C-N-CA	6.58	132.92	122.86
1	58	117	TRP	N-CA-C	6.58	119.27	111.71
1	5f	167	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	5i	74	ASN	CA-C-N	6.58	129.09	120.28
1	5i	74	ASN	C-N-CA	6.58	129.09	120.28
1	5q	18	ARG	NH1-CZ-NH2	-6.58	110.75	119.30
1	65	136	LEU	N-CA-C	6.58	118.45	111.28
1	6o	153	ILE	CA-C-O	-6.58	113.28	120.71
1	6C	170	LYS	N-CA-CB	-6.58	100.45	110.12
1	6W	143	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	70	33	SER	CA-C-N	6.58	126.71	119.87
1	70	33	SER	C-N-CA	6.58	126.71	119.87
1	71	169	TYR	CA-C-N	6.58	128.99	120.44
1	71	169	TYR	C-N-CA	6.58	128.99	120.44
1	76	150	ILE	N-CA-C	6.58	117.27	110.36
1	7a	48	THR	CA-C-O	-6.58	113.87	120.64
1	7w	208	ALA	CA-C-N	6.58	130.09	120.82
1	7w	208	ALA	C-N-CA	6.58	130.09	120.82
1	7Q	191	VAL	CA-C-N	6.58	129.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	191	VAL	C-N-CA	6.58	129.09	120.28
1	8b	93	PRO	N-CA-CB	-6.58	96.34	103.25
1	93	92	GLU	CA-C-N	6.58	126.61	119.90
1	93	92	GLU	C-N-CA	6.58	126.61	119.90
1	98	229	ARG	N-CA-C	-6.58	105.29	113.38
1	99	84	HIS	CA-C-O	6.58	125.86	119.55
1	9d	199	LYS	N-CA-C	6.58	118.53	111.36
1	9e	213	GLU	CA-C-N	6.58	129.63	120.29
1	9e	213	GLU	C-N-CA	6.58	129.63	120.29
1	9r	132	ARG	NE-CZ-NH2	6.58	125.12	119.20
1	9r	204	ALA	N-CA-C	6.58	118.45	111.28
1	Y	55	MET	CA-C-N	6.58	129.63	120.29
1	Y	55	MET	C-N-CA	6.58	129.63	120.29
1	9R	36	VAL	O-C-N	-6.58	115.62	122.20
1	aW	167	ARG	NE-CZ-NH2	-6.58	113.28	119.20
1	b5	227	LYS	O-C-N	-6.58	113.84	122.59
1	17	16	SER	CA-C-N	6.58	126.20	119.56
1	17	16	SER	C-N-CA	6.58	126.20	119.56
1	bD	21	ASN	CA-C-N	6.58	128.99	120.44
1	bD	21	ASN	C-N-CA	6.58	128.99	120.44
1	cd	100	ARG	NE-CZ-NH2	6.58	125.12	119.20
1	cp	144	MET	N-CA-CB	6.58	119.89	110.16
1	cr	139	ASN	N-CA-C	6.58	118.11	111.07
1	cR	162	ARG	NE-CZ-NH1	6.58	128.07	121.50
1	cU	62	HIS	ND1-CG-CD2	6.58	112.67	106.10
1	cV	42	ALA	CA-C-O	-6.58	113.93	120.70
1	dl	53	ASN	OD1-CG-ND2	-6.58	116.03	122.60
1	ds	67	GLN	N-CA-C	6.58	118.11	111.07
1	du	120	HIS	CA-CB-CG	6.58	120.38	113.80
1	dw	7	GLN	N-CA-C	6.58	119.77	110.23
1	dP	212	GLU	CA-C-N	6.58	129.09	120.28
1	dP	212	GLU	C-N-CA	6.58	129.09	120.28
1	dX	64	ALA	O-C-N	-6.58	115.15	122.12
1	dX	178	SER	CA-C-N	6.58	129.09	120.28
1	dX	178	SER	C-N-CA	6.58	129.09	120.28
1	dY	100	ARG	O-C-N	-6.58	114.56	122.65
1	e4	77	ALA	CA-C-O	-6.58	113.58	120.55
1	e6	126	VAL	N-CA-C	6.58	116.73	110.42
1	eo	21	ASN	N-CA-C	6.58	118.11	111.07
1	eu	120	HIS	CA-CB-CG	6.58	120.38	113.80
1	fo	21	ASN	CA-CB-CG	6.58	119.17	112.60
1	fU	86	VAL	N-CA-C	6.58	118.62	109.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	139	ASN	O-C-N	-6.58	115.30	122.07
1	i	189	LEU	O-C-N	6.58	129.91	122.22
1	o	213	GLU	N-CA-C	6.58	118.45	111.28
1	v	43	LEU	N-CA-C	6.58	118.45	111.28
1	H	185	MET	N-CA-C	6.58	118.14	110.97
1	gu	144	MET	N-CA-C	6.57	118.52	111.36
1	gI	15	ILE	O-C-N	-6.57	115.51	122.67
1	hO	63	GLN	CA-C-N	6.57	129.09	120.28
1	hO	63	GLN	C-N-CA	6.57	129.09	120.28
1	hU	18	ARG	NE-CZ-NH1	6.57	128.07	121.50
1	ik	87	HIS	CA-CB-CG	6.57	120.37	113.80
1	iu	26	VAL	N-CA-C	6.57	116.73	110.42
1	iv	161	PHE	CA-C-N	6.57	129.41	120.54
1	iv	161	PHE	C-N-CA	6.57	129.41	120.54
1	iC	53	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	j9	102	SER	O-C-N	-6.57	114.53	122.22
1	jg	121	ASN	CA-CB-CG	6.57	119.17	112.60
1	jR	134	ILE	N-CA-C	6.57	116.73	110.42
1	jX	168	PHE	CA-CB-CG	-6.57	107.23	113.80
1	kb	4	GLN	N-CA-C	-6.57	98.98	109.76
1	kh	198	CYS	N-CA-CB	6.57	119.89	110.16
1	ki	5	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	22	168	PHE	N-CA-CB	6.57	119.81	109.82
1	ky	127	GLY	O-C-N	-6.57	115.81	122.19
1	kP	182	LYS	N-CA-C	6.57	118.10	111.07
1	lc	168	PHE	CA-CB-CG	6.57	120.37	113.80
1	lA	69	LEU	O-C-N	-6.57	114.66	122.15
1	lA	189	LEU	N-CA-C	6.57	120.51	112.23
1	lJ	84	HIS	CA-CB-CG	-6.57	107.23	113.80
1	2a	117	TRP	O-C-N	-6.57	115.30	122.07
1	2d	59	VAL	CG1-CB-CG2	-6.57	96.34	110.80
1	2h	212	GLU	CA-C-O	6.57	127.52	120.55
1	2p	155	GLN	N-CA-C	6.57	119.82	109.96
1	2s	114	GLN	CA-C-O	6.57	127.52	120.55
1	2X	38	PRO	CA-C-N	6.57	129.09	120.28
1	2X	38	PRO	C-N-CA	6.57	129.09	120.28
1	38	229	ARG	N-CA-C	6.57	120.60	112.58
1	3c	133	TRP	CA-C-N	6.57	128.84	120.56
1	3c	133	TRP	C-N-CA	6.57	128.84	120.56
1	3H	10	MET	N-CA-C	6.57	120.37	109.46
1	3O	216	THR	O-C-N	-6.57	114.44	122.20
1	3P	86	VAL	CA-C-N	6.57	130.90	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	86	VAL	C-N-CA	6.57	130.90	121.50
1	3W	18	ARG	CA-C-N	6.57	128.99	120.44
1	3W	18	ARG	C-N-CA	6.57	128.99	120.44
1	40	119	THR	CA-C-N	6.57	132.65	120.95
1	40	119	THR	C-N-CA	6.57	132.65	120.95
1	47	7	GLN	OE1-CD-NE2	-6.57	116.03	122.60
1	4i	219	GLN	N-CA-C	6.57	119.76	110.23
1	50	142	VAL	CA-C-N	6.57	129.41	120.54
1	50	142	VAL	C-N-CA	6.57	129.41	120.54
1	5p	57	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	5q	188	THR	CA-C-N	6.57	128.99	120.44
1	5q	188	THR	C-N-CA	6.57	128.99	120.44
1	5t	5	ASN	CA-C-N	6.57	129.38	120.38
1	5t	5	ASN	C-N-CA	6.57	129.38	120.38
1	5N	10	MET	CA-C-N	6.57	132.18	122.71
1	5N	10	MET	C-N-CA	6.57	132.18	122.71
1	5X	39	MET	N-CA-C	6.57	118.44	111.28
1	6t	194	ALA	O-C-N	-6.57	115.36	122.85
1	6w	212	GLU	N-CA-C	6.57	119.00	111.11
1	73	225	GLY	CA-C-N	6.57	129.93	120.79
1	73	225	GLY	C-N-CA	6.57	129.93	120.79
1	7c	193	ASN	CA-CB-CG	-6.57	106.03	112.60
1	8h	22	ALA	N-CA-C	6.57	119.44	111.82
1	8n	91	ILE	N-CA-C	-6.57	104.61	111.58
1	8A	195	ASN	O-C-N	-6.57	113.29	121.64
1	8J	67	GLN	CA-C-N	6.57	129.41	120.54
1	8J	67	GLN	C-N-CA	6.57	129.41	120.54
1	9o	34	PRO	CA-C-N	6.57	129.09	120.28
1	9o	34	PRO	C-N-CA	6.57	129.09	120.28
1	9w	116	GLY	CA-C-O	6.57	127.21	119.45
1	9y	131	LYS	O-C-N	-6.57	114.18	122.27
1	9U	20	LEU	O-C-N	-6.57	114.66	122.15
1	Z	115	ILE	N-CA-C	-6.57	104.11	110.42
1	a2	203	LYS	O-C-N	-6.57	115.15	122.12
1	a7	60	GLY	CA-C-N	6.57	126.34	120.10
1	a7	60	GLY	C-N-CA	6.57	126.34	120.10
1	af	31	ALA	N-CA-CB	-6.57	100.15	109.94
1	aq	72	THR	CA-C-N	6.57	128.84	120.56
1	aq	72	THR	C-N-CA	6.57	128.84	120.56
1	av	144	MET	CA-C-N	6.57	133.37	122.66
1	av	144	MET	C-N-CA	6.57	133.37	122.66
1	aQ	71	GLU	N-CA-C	6.57	118.44	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aU	34	PRO	N-CA-C	6.57	126.01	112.47
1	aV	103	ASP	CA-C-N	6.57	129.47	120.46
1	aV	103	ASP	C-N-CA	6.57	129.47	120.46
1	aZ	170	LYS	CA-C-N	6.57	131.70	120.72
1	aZ	170	LYS	C-N-CA	6.57	131.70	120.72
1	aZ	176	GLN	OE1-CD-NE2	6.57	129.17	122.60
1	b0	171	THR	N-CA-CB	6.57	119.89	110.16
1	b5	21	ASN	N-CA-C	6.57	118.44	111.28
1	bp	117	TRP	N-CA-C	6.57	118.44	111.28
1	1c	66	MET	O-C-N	-6.57	115.15	122.12
1	cp	117	TRP	CB-CG-CD2	6.57	136.00	126.80
1	cq	27	VAL	CB-CA-C	6.57	120.38	111.97
1	cS	112	GLN	CA-C-O	6.57	127.52	120.55
1	dm	215	MET	CB-CA-C	6.57	121.84	110.01
1	1o	168	PHE	CA-C-N	6.57	129.09	120.28
1	1o	168	PHE	C-N-CA	6.57	129.09	120.28
1	1p	156	GLY	CA-C-O	-6.57	116.08	122.46
1	en	195	ASN	CA-CB-CG	-6.57	106.03	112.60
1	eQ	168	PHE	CA-CB-CG	6.57	120.37	113.80
1	eT	190	LEU	CA-C-N	6.57	132.94	122.56
1	eT	190	LEU	C-N-CA	6.57	132.94	122.56
1	eZ	40	PHE	N-CA-C	6.57	118.10	111.07
1	fi	129	ILE	CB-CA-C	6.57	120.38	111.97
1	fy	18	ARG	CB-CA-C	-6.57	99.50	110.68
1	fL	84	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	g4	29	GLU	N-CA-C	6.57	118.11	111.07
1	2	121	ASN	CA-CB-CG	6.57	119.17	112.60
1	5	192	GLN	O-C-N	-6.57	115.30	122.07
1	iP	32	PHE	N-CA-C	6.57	118.78	110.24
1	jh	73	ILE	O-C-N	6.57	128.25	121.87
1	1W	153	ILE	N-CA-CB	6.57	119.01	111.39
1	jY	113	GLU	N-CA-C	6.57	118.44	111.28
1	k3	130	TYR	CB-CG-CD2	-6.57	110.94	120.80
1	kC	205	LEU	CA-C-N	6.57	132.19	121.87
1	kC	205	LEU	C-N-CA	6.57	132.19	121.87
1	kF	14	ALA	CA-C-N	6.57	129.37	120.63
1	kF	14	ALA	C-N-CA	6.57	129.37	120.63
1	lj	59	VAL	O-C-N	-6.57	115.97	122.67
1	lB	18	ARG	NE-CZ-NH2	-6.57	113.28	119.20
1	2X	63	GLN	N-CA-C	6.57	118.44	111.28
1	2X	104	ILE	N-CA-C	6.57	119.31	111.09
1	34	64	ALA	N-CA-CB	-6.57	100.43	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3D	33	SER	CA-C-N	6.57	127.42	120.12
1	3D	33	SER	C-N-CA	6.57	127.42	120.12
1	3F	41	SER	CA-C-N	6.57	130.30	120.31
1	3F	41	SER	C-N-CA	6.57	130.30	120.31
1	3W	18	ARG	NE-CZ-NH2	-6.57	113.28	119.20
1	3X	206	GLY	CA-C-N	6.57	128.06	119.84
1	3X	206	GLY	C-N-CA	6.57	128.06	119.84
1	4d	132	ARG	CA-C-N	6.57	129.62	120.29
1	4d	132	ARG	C-N-CA	6.57	129.62	120.29
1	4h	66	MET	CA-C-N	6.57	128.98	120.44
1	4h	66	MET	C-N-CA	6.57	128.98	120.44
1	4o	178	SER	CA-CB-OG	6.57	124.24	111.10
1	4q	124	ILE	N-CA-C	-6.57	101.04	107.55
1	5x	21	ASN	CA-CB-CG	6.57	119.17	112.60
1	5S	21	ASN	CA-C-N	6.57	129.09	120.28
1	5S	21	ASN	C-N-CA	6.57	129.09	120.28
1	6g	28	GLU	N-CA-C	6.57	119.00	111.11
1	6l	88	ALA	CA-C-N	6.57	132.19	121.87
1	6l	88	ALA	C-N-CA	6.57	132.19	121.87
1	6L	50	GLN	CA-C-O	-6.57	113.87	120.90
1	7K	74	ASN	N-CA-CB	6.57	119.54	110.01
1	7O	57	ASN	CA-C-N	6.57	129.09	120.28
1	7O	57	ASN	C-N-CA	6.57	129.09	120.28
1	8H	181	VAL	N-CA-C	6.57	116.73	110.42
1	9v	33	SER	CA-C-O	-6.57	113.21	119.91
1	9T	80	TRP	O-C-N	-6.57	115.30	122.07
1	au	87	HIS	N-CA-C	6.57	119.04	110.43
1	aT	56	LEU	N-CA-C	6.57	119.44	111.82
1	aW	132	ARG	NH1-CZ-NH2	-6.57	110.76	119.30
1	bN	181	VAL	N-CA-C	6.57	116.71	110.53
1	c4	188	THR	CA-CB-OG1	6.57	119.46	109.60
1	cc	207	PRO	CA-C-N	6.57	133.63	122.26
1	cc	207	PRO	C-N-CA	6.57	133.63	122.26
1	ck	132	ARG	N-CA-C	6.57	118.44	111.28
1	1e	47	ALA	CA-C-N	6.57	130.67	120.68
1	1e	47	ALA	C-N-CA	6.57	130.67	120.68
1	cB	200	THR	CA-C-O	-6.57	113.45	120.42
1	d8	74	ASN	CB-CA-C	-6.57	98.47	110.63
1	dn	179	GLN	N-CA-C	6.57	118.52	111.36
1	1l	137	GLY	N-CA-C	6.57	120.59	112.64
1	e8	42	ALA	CA-C-N	6.57	129.62	120.29
1	e8	42	ALA	C-N-CA	6.57	129.62	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	138	LEU	CA-C-O	6.57	127.53	119.97
1	ep	40	PHE	CA-C-N	6.57	129.38	120.38
1	ep	40	PHE	C-N-CA	6.57	129.38	120.38
1	ey	51	ASP	CA-C-N	6.57	128.98	120.44
1	ey	51	ASP	C-N-CA	6.57	128.98	120.44
1	eS	91	ILE	N-CA-C	6.57	116.71	110.53
1	f1	199	LYS	CA-C-N	6.57	128.98	120.44
1	f1	199	LYS	C-N-CA	6.57	128.98	120.44
1	fd	12	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	fM	121	ASN	O-C-N	-6.57	113.76	121.32
1	g5	55	MET	N-CA-C	6.57	118.10	111.07
1	l	230	VAL	CA-CB-CG1	6.57	121.57	110.40
1	o	226	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	2	32	PHE	CA-CB-CG	6.57	120.37	113.80
1	G	216	THR	N-CA-C	6.57	118.10	111.07
1	gb	145	TYR	N-CA-C	6.57	118.10	111.07
1	gd	24	VAL	CA-CB-CG1	6.57	121.57	110.40
1	1E	103	ASP	CA-CB-CG	6.57	119.17	112.60
1	gL	89	GLY	N-CA-C	6.57	119.89	112.00
1	gM	36	VAL	CA-C-N	6.57	124.38	120.24
1	gM	36	VAL	C-N-CA	6.57	124.38	120.24
1	gT	100	ARG	N-CA-C	-6.57	99.47	109.85
1	hq	162	ARG	N-CA-C	6.57	122.21	111.37
1	hz	142	VAL	CA-C-N	6.57	128.98	120.44
1	hz	142	VAL	C-N-CA	6.57	128.98	120.44
1	iH	193	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	j4	146	SER	N-CA-C	6.57	117.98	109.64
1	jR	229	ARG	NE-CZ-NH2	6.57	125.11	119.20
1	jZ	103	ASP	CA-C-O	6.57	127.53	119.97
1	1Z	179	GLN	N-CA-C	6.57	119.00	111.11
1	k9	167	ARG	N-CA-C	6.57	118.44	111.28
1	kD	104	ILE	CA-C-O	-6.57	113.68	120.71
1	kH	110	THR	CA-CB-OG1	6.57	119.46	109.60
1	kR	142	VAL	CB-CA-C	-6.57	103.27	112.14
1	l0	173	ARG	NH1-CZ-NH2	-6.57	110.76	119.30
1	lo	92	GLU	CA-C-N	6.57	126.60	119.90
1	lo	92	GLU	C-N-CA	6.57	126.60	119.90
1	lt	229	ARG	NE-CZ-NH1	6.57	128.07	121.50
1	lO	82	ARG	N-CA-C	6.57	118.44	111.28
1	2O	128	GLU	CA-C-O	6.57	127.53	120.24
1	3a	141	ILE	O-C-N	-6.57	115.06	121.83
1	3h	69	LEU	N-CA-C	6.57	118.10	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3z	151	LEU	N-CA-C	-6.57	105.26	113.28
1	3M	69	LEU	O-C-N	-6.57	115.30	122.07
1	4I	186	THR	N-CA-C	-6.57	103.32	112.45
1	4L	62	HIS	N-CA-C	6.57	120.24	111.30
1	4O	172	LEU	CA-C-N	6.57	129.38	120.38
1	4O	172	LEU	C-N-CA	6.57	129.38	120.38
1	4Q	210	THR	O-C-N	-6.57	115.53	122.96
1	4X	165	VAL	CA-C-N	6.57	130.68	120.82
1	4X	165	VAL	C-N-CA	6.57	130.68	120.82
1	5a	226	HIS	CA-CB-CG	6.57	120.37	113.80
1	5g	42	ALA	O-C-N	-6.57	115.16	122.12
1	5C	92	GLU	O-C-N	-6.57	116.34	121.47
1	5V	50	GLN	O-C-N	-6.57	114.19	122.27
1	5V	150	ILE	N-CA-C	6.57	117.32	110.62
1	62	176	GLN	N-CA-CB	-6.57	100.46	110.12
1	63	118	MET	N-CA-C	-6.57	105.25	113.20
1	6a	193	ASN	CA-C-N	6.57	132.30	121.39
1	6a	193	ASN	C-N-CA	6.57	132.30	121.39
1	6f	226	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	6i	111	LEU	CA-C-N	6.57	129.41	120.54
1	6i	111	LEU	C-N-CA	6.57	129.41	120.54
1	6k	198	CYS	N-CA-C	6.57	118.44	111.28
1	6D	223	GLY	O-C-N	-6.57	115.20	121.77
1	6N	21	ASN	N-CA-C	6.57	118.44	111.28
1	7q	158	LYS	N-CA-C	-6.57	104.49	113.30
1	7w	141	ILE	N-CA-C	-6.57	103.84	111.00
1	7C	96	MET	CG-SD-CE	-6.57	86.44	100.90
1	7G	50	GLN	O-C-N	-6.57	113.62	122.43
1	7P	226	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	7R	98	GLU	O-C-N	-6.57	115.29	121.20
1	8d	52	LEU	O-C-N	-6.57	114.66	122.15
1	96	172	LEU	CA-C-O	-6.57	113.46	120.42
1	9G	225	GLY	CA-C-N	6.57	129.09	120.28
1	9G	225	GLY	C-N-CA	6.57	129.09	120.28
1	a2	198	CYS	CA-C-N	6.57	129.74	120.28
1	a2	198	CYS	C-N-CA	6.57	129.74	120.28
1	af	62	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	aq	192	GLN	N-CA-C	6.57	120.16	111.75
1	as	131	LYS	CA-C-O	-6.57	112.41	119.97
1	aw	89	GLY	CA-C-N	6.57	128.05	119.84
1	aw	89	GLY	C-N-CA	6.57	128.05	119.84
1	aw	170	LYS	CA-C-N	6.57	129.62	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aw	170	LYS	C-N-CA	6.57	129.62	120.29
1	bb	215	MET	N-CA-C	6.57	119.28	111.33
1	bm	16	SER	O-C-N	-6.57	114.71	121.28
1	bm	20	LEU	O-C-N	-6.57	115.20	122.03
1	by	18	ARG	N-CA-C	6.57	118.44	111.28
1	bE	137	GLY	N-CA-C	6.57	120.59	112.64
1	dB	206	GLY	CA-C-N	6.57	128.05	119.84
1	dB	206	GLY	C-N-CA	6.57	128.05	119.84
1	eM	1	PRO	CA-C-N	6.57	130.44	122.16
1	eM	1	PRO	C-N-CA	6.57	130.44	122.16
1	eT	179	GLN	N-CA-C	6.57	119.28	111.33
1	eZ	172	LEU	CA-C-O	6.57	127.51	120.55
1	f0	4	GLN	CA-C-N	6.57	132.93	120.97
1	f0	4	GLN	C-N-CA	6.57	132.93	120.97
1	f4	63	GLN	CA-C-N	6.57	128.98	120.44
1	f4	63	GLN	C-N-CA	6.57	128.98	120.44
1	fl	125	PRO	CA-C-N	6.57	131.40	120.62
1	fl	125	PRO	C-N-CA	6.57	131.40	120.62
1	fp	158	LYS	CB-CG-CD	6.57	126.41	111.30
1	fy	147	PRO	N-CA-CB	6.57	110.15	103.25
1	fH	70	LYS	CA-C-N	6.57	129.41	120.54
1	fH	70	LYS	C-N-CA	6.57	129.41	120.54
1	g0	203	LYS	CA-C-N	6.57	129.41	120.54
1	g0	203	LYS	C-N-CA	6.57	129.41	120.54
1	a	50	GLN	CA-C-N	6.57	129.08	120.28
1	a	50	GLN	C-N-CA	6.57	129.08	120.28
1	gm	15	ILE	CA-C-N	6.57	129.82	120.49
1	gm	15	ILE	C-N-CA	6.57	129.82	120.49
1	h3	56	LEU	N-CA-C	6.57	118.44	111.28
1	h6	13	GLN	CA-C-N	6.57	131.81	121.56
1	h6	13	GLN	C-N-CA	6.57	131.81	121.56
1	1N	47	ALA	O-C-N	-6.57	115.62	123.31
1	il	145	TYR	N-CA-CB	-6.57	100.91	110.70
1	iG	31	ALA	N-CA-C	6.57	117.72	108.00
1	iX	11	VAL	O-C-N	-6.57	115.98	123.07
1	ja	115	ILE	N-CA-CB	6.57	118.23	110.55
1	25	5	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	2A	14	ALA	CA-C-N	6.57	130.72	121.66
1	2A	14	ALA	C-N-CA	6.57	130.72	121.66
1	2G	99	PRO	N-CD-CG	6.57	113.05	103.20
1	2Y	199	LYS	N-CA-C	6.57	118.44	111.28
1	46	122	PRO	N-CD-CG	-6.57	95.92	103.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	42	ALA	N-CA-C	6.57	118.44	111.28
1	4z	188	THR	CA-CB-OG1	6.57	119.45	109.60
1	5d	186	THR	O-C-N	-6.57	115.26	122.09
1	5y	200	THR	CA-C-N	6.57	129.46	120.46
1	5y	200	THR	C-N-CA	6.57	129.46	120.46
1	6e	53	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	6t	181	VAL	O-C-N	6.57	128.60	121.83
1	7l	181	VAL	CA-C-O	6.57	127.78	120.95
1	7D	227	LYS	N-CA-C	6.57	121.24	113.23
1	7K	37	ILE	CA-C-O	-6.57	114.29	118.69
1	83	27	VAL	CB-CA-C	6.57	120.29	111.88
1	87	84	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	94	73	ILE	CA-CB-CG2	-6.57	99.33	110.50
1	99	178	SER	N-CA-CB	6.57	120.97	110.46
1	9M	9	GLN	CA-C-N	6.57	130.44	121.05
1	9M	9	GLN	C-N-CA	6.57	130.44	121.05
1	9N	36	VAL	N-CA-C	6.57	117.32	110.62
1	bd	38	PRO	N-CA-C	6.57	122.17	113.57
1	bY	230	VAL	N-CA-C	6.57	119.30	111.09
1	cq	28	GLU	CA-C-O	6.57	127.72	120.82
1	cL	40	PHE	CA-CB-CG	6.57	120.37	113.80
1	cQ	177	ALA	CA-C-N	6.57	130.04	120.71
1	cQ	177	ALA	C-N-CA	6.57	130.04	120.71
1	cR	33	SER	O-C-N	-6.57	115.20	121.57
1	dz	130	TYR	CA-C-N	6.57	129.38	120.38
1	dz	130	TYR	C-N-CA	6.57	129.38	120.38
1	dM	173	ARG	NE-CZ-NH1	6.57	128.07	121.50
1	dW	174	ALA	N-CA-CB	-6.57	100.77	110.49
1	f7	159	GLU	CA-C-O	-6.57	113.27	120.69
1	fG	12	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	g0	9	GLN	OE1-CD-NE2	6.57	129.17	122.60
1	v	157	PRO	N-CA-CB	-6.57	96.30	103.39
1	3	84	HIS	CA-C-N	6.57	128.05	119.84
1	3	84	HIS	C-N-CA	6.57	128.05	119.84
1	gk	223	GLY	CA-C-N	6.57	126.95	119.92
1	gk	223	GLY	C-N-CA	6.57	126.95	119.92
1	gq	53	ASN	OD1-CG-ND2	6.57	129.17	122.60
1	gG	41	SER	CA-C-N	6.57	129.08	120.28
1	gG	41	SER	C-N-CA	6.57	129.08	120.28
1	gK	68	MET	N-CA-C	6.57	118.44	111.28
1	gO	203	LYS	O-C-N	6.57	128.84	122.07
1	gW	33	SER	CA-C-O	-6.57	113.54	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	135	ILE	N-CA-C	6.57	119.26	111.05
1	hp	229	ARG	CA-C-N	6.57	130.10	122.35
1	hp	229	ARG	C-N-CA	6.57	130.10	122.35
1	ik	164	TYR	CA-CB-CG	-6.57	102.08	113.90
1	il	173	ARG	O-C-N	-6.57	115.16	122.12
1	iq	140	LYS	CA-C-N	6.57	129.46	120.46
1	iq	140	LYS	C-N-CA	6.57	129.46	120.46
1	jb	170	LYS	N-CA-C	6.57	118.44	111.28
1	jO	167	ARG	CA-C-O	6.57	127.72	120.82
1	jP	188	THR	CA-C-N	6.57	129.62	120.29
1	jP	188	THR	C-N-CA	6.57	129.62	120.29
1	jW	12	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	kc	120	HIS	CE1-NE2-CD2	-6.57	102.43	109.00
1	kx	221	VAL	N-CA-C	6.57	118.14	109.21
1	ky	195	ASN	CA-C-N	6.57	128.05	119.84
1	ky	195	ASN	C-N-CA	6.57	128.05	119.84
1	23	77	ALA	CA-C-N	6.57	129.08	120.28
1	23	77	ALA	C-N-CA	6.57	129.08	120.28
1	kL	45	GLU	CB-CG-CD	-6.57	101.43	112.60
1	lt	13	GLN	N-CA-C	6.57	118.74	108.96
1	lx	201	ILE	CA-C-N	6.57	129.08	120.28
1	lx	201	ILE	C-N-CA	6.57	129.08	120.28
1	2i	83	LEU	N-CA-C	6.57	118.10	111.07
1	2u	161	PHE	CA-CB-CG	-6.57	107.23	113.80
1	2w	203	LYS	N-CA-CB	6.57	119.88	110.16
1	2E	63	GLN	CB-CA-C	-6.57	99.69	110.85
1	36	87	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	3D	181	VAL	N-CA-CB	6.57	118.23	110.55
1	3G	216	THR	N-CA-CB	6.57	120.33	110.22
1	41	68	MET	N-CA-C	6.57	118.44	111.28
1	4h	212	GLU	N-CA-C	6.57	119.26	111.71
1	4m	160	PRO	CA-C-N	6.57	129.08	120.28
1	4m	160	PRO	C-N-CA	6.57	129.08	120.28
1	4Q	227	LYS	CA-C-O	6.57	127.59	119.05
1	5J	110	THR	CA-C-O	-6.57	113.78	121.46
1	5N	57	ASN	CA-C-N	6.57	129.08	120.28
1	5N	57	ASN	C-N-CA	6.57	129.08	120.28
1	5R	112	GLN	N-CA-C	6.57	121.03	112.89
1	67	168	PHE	CB-CA-C	6.57	122.02	110.85
1	6d	67	GLN	CA-C-O	6.57	127.51	120.55
1	6u	53	ASN	CA-C-N	6.57	129.41	120.54
1	6u	53	ASN	C-N-CA	6.57	129.41	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6z	215	MET	CA-C-O	6.57	127.45	119.31
1	6E	108	THR	CB-CA-C	-6.57	100.10	110.94
1	6E	120	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	6F	229	ARG	N-CA-C	6.57	119.41	109.23
1	70	227	LYS	O-C-N	-6.57	113.86	122.59
1	7b	169	TYR	N-CA-C	6.57	121.03	112.89
1	7j	33	SER	O-C-N	-6.57	115.31	121.35
1	7o	211	LEU	CA-C-N	6.57	129.08	120.28
1	7o	211	LEU	C-N-CA	6.57	129.08	120.28
1	7x	16	SER	O-C-N	-6.57	114.07	121.43
1	88	143	ARG	CA-C-N	6.57	128.98	120.44
1	88	143	ARG	C-N-CA	6.57	128.98	120.44
1	89	138	LEU	CA-C-N	6.57	129.08	120.28
1	89	138	LEU	C-N-CA	6.57	129.08	120.28
1	89	154	ARG	NE-CZ-NH2	6.57	125.11	119.20
1	8a	85	PRO	N-CA-C	6.57	121.55	111.11
1	8R	223	GLY	CA-C-N	6.57	128.05	119.84
1	8R	223	GLY	C-N-CA	6.57	128.05	119.84
1	8V	206	GLY	O-C-N	-6.57	115.20	121.77
1	8X	75	GLU	CB-CA-C	-6.57	100.52	110.90
1	9E	228	ALA	O-C-N	-6.57	113.85	122.59
1	9O	195	ASN	CA-CB-CG	6.57	119.17	112.60
1	Z	166	ASP	CA-CB-CG	6.57	119.17	112.60
1	ar	19	THR	N-CA-C	6.57	118.44	111.28
1	aw	40	PHE	CA-CB-CG	-6.57	107.23	113.80
1	aC	31	ALA	CA-C-N	6.57	131.72	122.46
1	aC	31	ALA	C-N-CA	6.57	131.72	122.46
1	aE	101	GLY	O-C-N	-6.57	115.12	122.28
1	aJ	21	ASN	CA-CB-CG	-6.57	106.03	112.60
1	aN	87	HIS	ND1-CE1-NE2	6.57	114.97	108.40
1	aQ	103	ASP	CA-CB-CG	-6.57	106.03	112.60
1	bS	212	GLU	N-CA-CB	-6.57	100.21	110.06
1	c2	147	PRO	CA-C-O	-6.57	113.85	121.34
1	cR	188	THR	CA-CB-OG1	6.57	119.45	109.60
1	dk	135	ILE	CB-CA-C	6.57	120.29	111.88
1	ez	154	ARG	CA-C-N	6.57	131.70	121.26
1	ez	154	ARG	C-N-CA	6.57	131.70	121.26
1	fe	35	GLU	CA-C-O	6.57	127.52	119.11
1	fg	100	ARG	O-C-N	-6.57	115.22	122.84
1	fC	119	THR	N-CA-C	-6.57	105.30	113.38
1	fV	221	VAL	CA-C-O	6.57	128.37	121.67
1	g2	46	GLY	CA-C-N	6.57	130.03	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	46	GLY	C-N-CA	6.57	130.03	120.71
1	g5	168	PHE	N-CA-C	6.57	118.44	111.28
1	gh	157	PRO	O-C-N	-6.57	114.02	122.23
1	1D	84	HIS	CA-C-N	6.57	128.05	119.84
1	1D	84	HIS	C-N-CA	6.57	128.05	119.84
1	gu	87	HIS	N-CA-C	6.57	119.88	110.10
1	gR	159	GLU	CA-C-O	-6.57	113.65	120.02
1	gS	56	LEU	N-CA-C	6.57	118.44	111.28
1	gT	146	SER	O-C-N	-6.57	112.71	121.64
1	h3	204	ALA	CA-C-N	6.57	129.08	120.28
1	h3	204	ALA	C-N-CA	6.57	129.08	120.28
1	1H	223	GLY	O-C-N	-6.57	115.20	121.77
1	hn	87	HIS	CA-C-O	6.57	127.45	120.36
1	is	84	HIS	CG-CD2-NE2	6.57	113.77	107.20
1	1Q	91	ILE	N-CA-C	6.57	117.30	108.11
1	j2	67	GLN	CA-C-O	6.57	127.54	119.79
1	j8	4	GLN	O-C-N	-6.57	115.59	123.27
1	jh	96	MET	CA-C-N	6.57	131.97	120.87
1	jh	96	MET	C-N-CA	6.57	131.97	120.87
1	jT	110	THR	CA-C-N	6.57	129.08	120.28
1	jT	110	THR	C-N-CA	6.57	129.08	120.28
1	k0	152	ASP	N-CA-CB	-6.57	100.97	110.56
1	kd	114	GLN	N-CA-C	6.57	118.99	111.11
1	kd	148	THR	N-CA-C	6.57	119.40	108.96
1	ki	46	GLY	CA-C-N	6.57	130.19	120.87
1	ki	46	GLY	C-N-CA	6.57	130.19	120.87
1	kW	143	ARG	NE-CZ-NH2	-6.57	113.29	119.20
1	26	132	ARG	O-C-N	-6.57	115.16	122.12
1	lb	37	ILE	CA-C-O	-6.57	114.29	118.69
1	ly	198	CYS	CA-C-N	6.57	129.97	120.38
1	ly	198	CYS	C-N-CA	6.57	129.97	120.38
1	2p	146	SER	CA-C-O	-6.57	111.17	120.16
1	2r	193	ASN	CA-C-N	6.57	134.08	121.54
1	2r	193	ASN	C-N-CA	6.57	134.08	121.54
1	2K	36	VAL	O-C-N	-6.57	115.50	121.87
1	3E	18	ARG	NE-CZ-NH1	6.57	128.07	121.50
1	4C	213	GLU	CA-C-N	6.57	128.97	120.44
1	4C	213	GLU	C-N-CA	6.57	128.97	120.44
1	4V	66	MET	N-CA-C	-6.57	103.96	112.23
1	5c	79	GLU	O-C-N	-6.57	115.16	122.12
1	5o	222	GLY	O-C-N	-6.57	115.01	122.56
1	5t	219	GLN	N-CA-C	6.57	118.98	108.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	24	VAL	CA-C-N	6.57	129.40	120.54
1	5F	24	VAL	C-N-CA	6.57	129.40	120.54
1	61	163	ASP	CA-CB-CG	-6.57	106.03	112.60
1	6p	123	PRO	CA-C-O	-6.57	113.94	121.36
1	6t	72	THR	N-CA-C	6.57	118.44	111.28
1	6U	201	ILE	CB-CA-C	-6.57	103.67	111.94
1	7w	31	ALA	CB-CA-C	-6.57	109.01	116.63
1	7T	62	HIS	CA-CB-CG	-6.57	107.23	113.80
1	8h	62	HIS	N-CA-C	6.57	120.45	111.39
1	8v	57	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	91	72	THR	O-C-N	-6.57	114.66	122.15
1	9l	229	ARG	CA-C-N	6.57	129.29	122.27
1	9l	229	ARG	C-N-CA	6.57	129.29	122.27
1	9n	142	VAL	CA-CB-CG1	6.57	121.56	110.40
1	9t	196	PRO	N-CA-CB	6.57	110.48	103.52
1	9y	33	SER	CA-C-N	6.57	128.05	119.84
1	9y	33	SER	C-N-CA	6.57	128.05	119.84
1	9z	54	THR	N-CA-CB	6.57	119.77	110.12
1	9J	130	TYR	N-CA-C	6.57	118.44	111.28
1	9P	70	LYS	CA-C-O	6.57	127.71	120.82
1	a7	226	HIS	CA-C-O	6.57	128.41	121.19
1	af	55	MET	O-C-N	-6.57	115.16	122.12
1	ak	132	ARG	NE-CZ-NH1	6.57	128.06	121.50
1	aF	159	GLU	N-CA-C	6.57	117.98	109.64
1	aM	53	ASN	OD1-CG-ND2	-6.57	116.03	122.60
1	aT	180	GLU	CB-CG-CD	-6.57	101.44	112.60
1	bm	142	VAL	CA-C-N	6.57	129.61	120.29
1	bm	142	VAL	C-N-CA	6.57	129.61	120.29
1	bv	37	ILE	O-C-N	-6.57	116.22	120.42
1	1b	213	GLU	CA-C-N	6.57	129.61	120.29
1	1b	213	GLU	C-N-CA	6.57	129.61	120.29
1	cs	130	TYR	CA-C-N	6.57	129.08	120.28
1	cs	130	TYR	C-N-CA	6.57	129.08	120.28
1	cX	90	PRO	O-C-N	-6.57	114.65	122.99
1	d5	109	SER	N-CA-CB	6.57	119.74	109.83
1	d8	213	GLU	N-CA-C	6.57	118.10	111.07
1	da	174	ALA	N-CA-C	6.57	118.44	111.28
1	1k	15	ILE	N-CA-C	6.57	117.56	108.89
1	dq	39	MET	N-CA-C	6.57	118.44	111.28
1	dD	211	LEU	CA-C-O	6.57	127.52	120.10
1	1n	9	GLN	N-CA-CB	6.57	121.58	110.49
1	eq	185	MET	CA-C-N	6.57	129.40	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eq	185	MET	C-N-CA	6.57	129.40	120.54
1	eE	161	PHE	CA-C-N	6.57	128.98	120.44
1	eE	161	PHE	C-N-CA	6.57	128.98	120.44
1	f6	33	SER	CA-C-N	6.57	128.05	119.84
1	f6	33	SER	C-N-CA	6.57	128.05	119.84
1	f7	152	ASP	CA-CB-CG	-6.57	106.03	112.60
1	fm	207	PRO	N-CA-CB	6.57	110.65	103.30
1	fp	155	GLN	OE1-CD-NE2	-6.57	116.03	122.60
1	fP	195	ASN	CA-CB-CG	6.57	119.17	112.60
1	g4	115	ILE	N-CA-C	6.57	117.32	110.62
1	g7	226	HIS	CA-CB-CG	-6.57	107.23	113.80
1	R	55	MET	N-CA-C	6.57	118.99	111.11
1	gc	121	ASN	CB-CA-C	-6.56	101.33	110.13
1	hs	55	MET	N-CA-C	6.56	118.44	111.28
1	iw	215	MET	CG-SD-CE	-6.56	86.46	100.90
1	iO	12	HIS	ND1-CE1-NE2	6.56	114.96	108.40
1	j0	107	THR	N-CA-C	6.56	118.44	111.28
1	1T	87	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
1	jk	163	ASP	CA-C-N	6.56	128.97	120.44
1	jk	163	ASP	C-N-CA	6.56	128.97	120.44
1	1X	4	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	lr	208	ALA	CA-C-N	6.56	130.66	120.75
1	lr	208	ALA	C-N-CA	6.56	130.66	120.75
1	lx	159	GLU	CA-C-O	-6.56	113.92	119.76
1	lz	179	GLN	N-CA-C	6.56	118.44	111.28
1	3d	208	ALA	N-CA-CB	-6.56	100.15	110.98
1	3A	101	GLY	O-C-N	6.56	128.56	122.19
1	3Y	97	ARG	NE-CZ-NH2	-6.56	113.29	119.20
1	48	11	VAL	N-CA-CB	6.56	118.89	111.21
1	5t	23	TRP	CD2-CE2-CZ2	-6.56	115.84	122.40
1	5A	221	VAL	CA-C-O	-6.56	114.43	121.19
1	5G	74	ASN	CA-CB-CG	-6.56	106.04	112.60
1	6d	92	GLU	N-CA-C	6.56	122.48	113.16
1	73	100	ARG	CG-CD-NE	-6.56	97.56	112.00
1	7D	214	MET	O-C-N	-6.56	115.16	122.12
1	7M	33	SER	CA-C-O	-6.56	113.53	120.23
1	85	30	LYS	CA-C-O	6.56	125.84	119.08
1	8i	185	MET	N-CA-C	6.56	118.44	111.28
1	Y	61	GLY	CA-C-O	-6.56	115.20	121.90
1	a9	36	VAL	O-C-N	-6.56	115.24	121.87
1	ad	80	TRP	N-CA-C	6.56	118.99	111.11
1	ag	40	PHE	CA-CB-CG	-6.56	107.24	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aE	144	MET	O-C-N	-6.56	114.20	122.27
1	aO	168	PHE	CA-CB-CG	6.56	120.36	113.80
1	bL	147	PRO	N-CA-CB	-6.56	96.36	103.25
1	bV	153	ILE	O-C-N	-6.56	116.42	122.79
1	c0	229	ARG	NE-CZ-NH2	-6.56	113.29	119.20
1	c5	144	MET	N-CA-C	6.56	118.52	111.36
1	dE	136	LEU	CA-C-N	6.56	127.22	120.00
1	dE	136	LEU	C-N-CA	6.56	127.22	120.00
1	dL	5	ASN	CA-CB-CG	6.56	119.16	112.60
1	dR	109	SER	CA-C-O	6.56	127.79	120.70
1	e9	100	ARG	CA-C-N	6.56	127.41	119.99
1	e9	100	ARG	C-N-CA	6.56	127.41	119.99
1	eh	169	TYR	CB-CA-C	6.56	121.19	110.88
1	1t	103	ASP	CA-CB-CG	6.56	119.16	112.60
1	1y	48	THR	O-C-N	-6.56	114.18	121.53
1	fG	181	VAL	CB-CA-C	6.56	121.04	112.24
1	fL	5	ASN	CA-CB-CG	6.56	119.16	112.60
1	fM	50	GLN	O-C-N	-6.56	115.16	122.12
1	fW	36	VAL	CA-C-N	6.56	125.58	120.33
1	fW	36	VAL	C-N-CA	6.56	125.58	120.33
1	9	10	MET	CA-C-N	6.56	131.06	120.30
1	9	10	MET	C-N-CA	6.56	131.06	120.30
1	gf	97	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	gw	219	GLN	N-CA-C	6.56	119.49	110.24
1	1K	139	ASN	CA-CB-CG	-6.56	106.04	112.60
1	hJ	210	THR	CA-C-N	6.56	129.37	120.38
1	hJ	210	THR	C-N-CA	6.56	129.37	120.38
1	hL	17	PRO	CA-C-N	6.56	129.61	120.29
1	hL	17	PRO	C-N-CA	6.56	129.61	120.29
1	hV	119	THR	N-CA-CB	6.56	119.98	110.47
1	hW	108	THR	CA-C-O	6.56	127.22	119.48
1	i1	79	GLU	CA-C-N	6.56	128.97	120.44
1	i1	79	GLU	C-N-CA	6.56	128.97	120.44
1	ij	95	GLN	O-C-N	-6.56	116.37	123.26
1	iB	98	GLU	N-CA-CB	6.56	119.15	110.29
1	j2	12	HIS	CA-C-O	-6.56	113.44	120.92
1	jf	191	VAL	CA-C-N	6.56	133.37	122.54
1	jf	191	VAL	C-N-CA	6.56	133.37	122.54
1	jr	173	ARG	NH1-CZ-NH2	6.56	127.83	119.30
1	jJ	10	MET	N-CA-C	6.56	124.78	110.80
1	jO	169	TYR	CA-C-O	6.56	126.95	119.27
1	kh	226	HIS	CA-CB-CG	6.56	120.36	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kl	74	ASN	O-C-N	-6.56	114.54	122.22
1	ku	145	TYR	CB-CG-CD2	-6.56	110.96	120.80
1	ky	163	ASP	CA-C-N	6.56	128.97	120.44
1	ky	163	ASP	C-N-CA	6.56	128.97	120.44
1	kL	114	GLN	O-C-N	-6.56	115.31	122.07
1	kP	112	GLN	CB-CG-CD	6.56	123.75	112.60
1	l8	110	THR	CA-C-N	6.56	128.97	120.44
1	l8	110	THR	C-N-CA	6.56	128.97	120.44
1	lx	121	ASN	CA-CB-CG	6.56	119.16	112.60
1	lH	161	PHE	N-CA-C	6.56	120.15	111.75
1	2l	156	GLY	O-C-N	-6.56	115.21	121.77
1	2D	230	VAL	O-C-N	-6.56	116.17	123.26
1	2O	64	ALA	CA-C-O	-6.56	113.59	120.55
1	2X	182	LYS	N-CA-C	6.56	119.27	111.33
1	3r	85	PRO	N-CA-C	6.56	121.38	111.14
1	3G	62	HIS	CB-CA-C	-6.56	102.57	111.89
1	4o	26	VAL	N-CA-CB	-6.56	101.62	110.54
1	4r	89	GLY	CA-C-N	6.56	128.04	119.84
1	4r	89	GLY	C-N-CA	6.56	128.04	119.84
1	4Y	112	GLN	N-CA-CB	-6.56	100.45	110.16
1	57	101	GLY	O-C-N	-6.56	115.13	122.28
1	5z	195	ASN	O-C-N	-6.56	114.90	121.27
1	5G	27	VAL	CB-CA-C	-6.56	103.57	111.97
1	5X	23	TRP	N-CA-C	6.56	119.27	111.33
1	6m	77	ALA	O-C-N	-6.56	114.67	122.15
1	6n	39	MET	N-CA-C	6.56	118.98	111.11
1	6Q	154	ARG	N-CA-C	6.56	124.78	110.80
1	7l	214	MET	CA-C-O	-6.56	113.93	120.82
1	7F	32	PHE	CA-CB-CG	-6.56	107.24	113.80
1	7H	116	GLY	O-C-N	-6.56	115.88	122.18
1	7L	176	GLN	CB-CG-CD	6.56	123.76	112.60
1	7R	201	ILE	CB-CA-C	-6.56	103.28	112.14
1	7X	61	GLY	CA-C-N	6.56	131.68	122.36
1	7X	61	GLY	C-N-CA	6.56	131.68	122.36
1	8j	91	ILE	CA-CB-CG1	6.56	121.56	110.40
1	8s	162	ARG	CG-CD-NE	-6.56	97.56	112.00
1	8v	173	ARG	NH1-CZ-NH2	-6.56	110.77	119.30
1	8D	121	ASN	CA-CB-CG	6.56	119.16	112.60
1	8P	74	ASN	CA-C-N	6.56	129.07	120.28
1	8P	74	ASN	C-N-CA	6.56	129.07	120.28
1	8Z	197	ASP	CA-C-O	6.56	127.46	120.70
1	95	181	VAL	CB-CA-C	-6.56	103.17	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	96	63	GLN	N-CA-C	6.56	122.20	111.37
1	96	72	THR	O-C-N	-6.56	115.16	122.12
1	9j	9	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	9k	219	GLN	N-CA-CB	6.56	121.89	111.91
1	9R	69	LEU	CA-C-O	6.56	127.51	120.55
1	a1	130	TYR	O-C-N	-6.56	115.16	122.12
1	a4	100	ARG	CA-C-N	6.56	127.38	120.03
1	a4	100	ARG	C-N-CA	6.56	127.38	120.03
1	ah	87	HIS	ND1-CE1-NE2	6.56	114.96	108.40
1	au	173	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	au	229	ARG	NE-CZ-NH2	6.56	125.11	119.20
1	aF	120	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
1	aT	128	GLU	CB-CG-CD	-6.56	101.44	112.60
1	b5	50	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	1b	192	GLN	O-C-N	6.56	129.10	122.08
1	bW	51	ASP	N-CA-CB	6.56	119.53	110.01
1	c2	182	LYS	N-CA-C	6.56	119.26	111.71
1	c6	186	THR	CB-CA-C	6.56	121.68	110.79
1	c8	165	VAL	CB-CA-C	6.56	120.37	111.97
1	ct	200	THR	N-CA-CB	6.56	119.77	110.12
1	cv	174	ALA	O-C-N	-6.56	114.44	122.25
1	cF	74	ASN	O-C-N	-6.56	115.31	122.07
1	1h	13	GLN	CB-CG-CD	6.56	123.76	112.60
1	d7	14	ALA	N-CA-CB	6.56	119.74	109.83
1	di	100	ARG	NH1-CZ-NH2	-6.56	110.77	119.30
1	dj	139	ASN	O-C-N	-6.56	115.27	122.09
1	dC	178	SER	CA-C-N	6.56	129.40	120.54
1	dC	178	SER	C-N-CA	6.56	129.40	120.54
1	dW	9	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	ee	62	HIS	CA-C-N	6.56	129.31	120.65
1	ee	62	HIS	C-N-CA	6.56	129.31	120.65
1	eA	66	MET	N-CA-C	6.56	118.51	111.36
1	fd	27	VAL	O-C-N	-6.56	115.50	121.87
1	fi	218	CYS	N-CA-C	6.56	119.22	111.02
1	fm	39	MET	O-C-N	-6.56	114.67	122.15
1	1A	186	THR	CB-CA-C	-6.56	99.90	110.79
1	fZ	12	HIS	ND1-CE1-NE2	6.56	114.96	108.40
1	h	195	ASN	CA-CB-CG	6.56	119.16	112.60
1	w	128	GLU	N-CA-C	6.56	118.43	111.28
1	y	90	PRO	N-CA-CB	6.56	110.14	103.25
1	5	66	MET	N-CA-C	6.56	118.51	111.36
1	1H	40	PHE	CA-CB-CG	6.56	120.36	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1H	43	LEU	CA-C-N	6.56	133.84	122.95
1	1H	43	LEU	C-N-CA	6.56	133.84	122.95
1	in	129	ILE	CA-C-O	6.56	128.12	121.17
1	kx	6	LEU	N-CA-CB	6.56	121.35	110.85
1	l1	218	CYS	O-C-N	-6.56	113.86	122.59
1	lp	101	GLY	N-CA-C	6.56	120.60	112.73
1	2f	124	ILE	CA-C-O	-6.56	114.09	119.47
1	2Y	42	ALA	CA-C-N	6.56	129.07	120.28
1	2Y	42	ALA	C-N-CA	6.56	129.07	120.28
1	3w	121	ASN	OD1-CG-ND2	-6.56	116.04	122.60
1	3L	62	HIS	ND1-CG-CD2	6.56	112.66	106.10
1	4v	20	LEU	CA-C-N	6.56	129.07	120.28
1	4v	20	LEU	C-N-CA	6.56	129.07	120.28
1	4N	190	LEU	N-CA-CB	-6.56	100.45	110.16
1	66	196	PRO	N-CA-C	6.56	125.99	112.47
1	6u	200	THR	CA-C-N	6.56	128.83	120.56
1	6u	200	THR	C-N-CA	6.56	128.83	120.56
1	6x	51	ASP	N-CA-C	6.56	118.98	111.11
1	6B	155	GLN	CA-C-O	6.56	128.11	120.96
1	6O	179	GLN	O-C-N	6.56	129.90	122.22
1	6Y	70	LYS	N-CA-CB	6.56	119.77	110.12
1	6Y	159	GLU	CA-C-N	6.56	126.94	119.92
1	6Y	159	GLU	C-N-CA	6.56	126.94	119.92
1	7B	108	THR	O-C-N	-6.56	113.27	122.26
1	7N	139	ASN	OD1-CG-ND2	6.56	129.16	122.60
1	8o	166	ASP	CA-C-N	6.56	129.07	120.28
1	8o	166	ASP	C-N-CA	6.56	129.07	120.28
1	9h	186	THR	CA-C-N	6.56	129.07	120.28
1	9h	186	THR	C-N-CA	6.56	129.07	120.28
1	9T	70	LYS	N-CA-C	6.56	119.43	111.82
1	aM	120	HIS	N-CA-C	6.56	118.79	110.33
1	14	12	HIS	ND1-CE1-NE2	6.56	114.96	108.40
1	b5	129	ILE	O-C-N	-6.56	115.48	121.91
1	c9	197	ASP	O-C-N	6.56	129.07	122.12
1	cb	55	MET	O-C-N	-6.56	115.31	122.07
1	cB	206	GLY	CA-C-N	6.56	126.14	119.19
1	cB	206	GLY	C-N-CA	6.56	126.14	119.19
1	cS	44	SER	N-CA-CB	6.56	119.98	110.47
1	dn	71	GLU	N-CA-C	6.56	118.09	111.07
1	dR	97	ARG	O-C-N	-6.56	115.07	122.75
1	dW	187	GLU	N-CA-C	6.56	118.51	111.36
1	ev	34	PRO	N-CA-C	6.56	122.65	113.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eJ	213	GLU	N-CA-C	6.56	118.43	111.28
1	eT	100	ARG	NE-CZ-NH2	6.56	125.11	119.20
1	fs	191	VAL	N-CA-C	6.56	117.31	110.62
1	fL	186	THR	O-C-N	-6.56	115.31	122.07
1	W	89	GLY	CA-C-N	6.56	126.59	119.90
1	W	89	GLY	C-N-CA	6.56	126.59	119.90
1	gB	131	LYS	N-CA-CB	6.56	120.32	110.22
1	gB	173	ARG	NH1-CZ-NH2	6.56	127.83	119.30
1	gT	197	ASP	N-CA-C	6.56	118.51	111.36
1	h0	137	GLY	CA-C-N	6.56	129.37	120.38
1	h0	137	GLY	C-N-CA	6.56	129.37	120.38
1	1H	166	ASP	N-CA-CB	-6.56	100.50	110.01
1	ha	193	ASN	N-CA-C	6.56	121.29	113.16
1	hj	87	HIS	CB-CG-CD2	-6.56	122.67	131.20
1	hn	4	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	hn	58	THR	N-CA-C	-6.56	104.90	113.17
1	id	87	HIS	N-CA-CB	6.56	119.74	109.83
1	il	50	GLN	CA-C-N	6.56	129.40	120.54
1	il	50	GLN	C-N-CA	6.56	129.40	120.54
1	ix	107	THR	CA-CB-OG1	6.56	119.44	109.60
1	jw	122	PRO	CA-C-N	6.56	126.52	119.76
1	jw	122	PRO	C-N-CA	6.56	126.52	119.76
1	jN	206	GLY	CA-C-N	6.56	128.04	119.84
1	jN	206	GLY	C-N-CA	6.56	128.04	119.84
1	jP	47	ALA	O-C-N	6.56	130.60	122.86
1	kd	2	ILE	CA-C-N	6.56	130.35	120.77
1	kd	2	ILE	C-N-CA	6.56	130.35	120.77
1	ke	155	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	kH	162	ARG	CA-C-O	-6.56	113.88	120.90
1	kV	88	ALA	N-CA-CB	-6.56	100.72	110.17
1	ly	170	LYS	CA-C-O	6.56	127.37	120.42
1	2C	100	ARG	NE-CZ-NH2	6.56	125.10	119.20
1	3o	166	ASP	N-CA-C	6.56	119.02	111.02
1	3F	43	LEU	N-CA-CB	-6.56	100.78	110.49
1	3G	39	MET	N-CA-CB	6.56	119.76	110.12
1	3G	133	TRP	CB-CG-CD2	-6.56	117.62	126.80
1	3K	4	GLN	N-CA-C	6.56	120.29	108.48
1	40	165	VAL	N-CA-C	6.56	117.31	110.62
1	4p	32	PHE	CA-CB-CG	-6.56	107.24	113.80
1	4z	67	GLN	O-C-N	-6.56	115.17	122.12
1	4G	59	VAL	CB-CA-C	6.56	118.50	111.35
1	4K	118	MET	O-C-N	-6.56	115.17	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4O	97	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	5z	96	MET	O-C-N	-6.56	115.37	123.04
1	5F	177	ALA	CA-C-N	6.56	130.03	120.71
1	5F	177	ALA	C-N-CA	6.56	130.03	120.71
1	5M	62	HIS	N-CA-C	6.56	120.58	112.58
1	5X	41	SER	N-CA-C	6.56	119.27	111.33
1	6x	51	ASP	CA-C-N	6.56	128.97	120.44
1	6x	51	ASP	C-N-CA	6.56	128.97	120.44
1	6z	153	ILE	O-C-N	-6.56	115.98	122.67
1	6F	129	ILE	CA-C-N	6.56	129.61	120.29
1	6F	129	ILE	C-N-CA	6.56	129.61	120.29
1	6W	13	GLN	N-CA-C	-6.56	97.08	108.69
1	72	97	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	75	134	ILE	CB-CA-C	-6.56	103.28	112.14
1	7g	223	GLY	N-CA-C	6.56	125.72	112.34
1	7v	148	THR	N-CA-CB	6.56	121.58	110.49
1	7G	162	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	83	210	THR	N-CA-C	6.56	119.75	110.50
1	8C	38	PRO	N-CA-C	-6.56	104.98	113.57
1	8N	173	ARG	NE-CZ-NH2	6.56	125.10	119.20
1	8U	180	GLU	O-C-N	-6.56	115.27	122.09
1	9c	87	HIS	CG-CD2-NE2	6.56	113.76	107.20
1	9l	140	LYS	O-C-N	-6.56	113.54	122.33
1	9x	88	ALA	CA-C-N	6.56	131.68	121.64
1	9x	88	ALA	C-N-CA	6.56	131.68	121.64
1	9P	70	LYS	O-C-N	-6.56	115.31	122.07
1	at	101	GLY	O-C-N	-6.56	115.29	122.24
1	au	166	ASP	N-CA-C	-6.56	104.05	111.07
1	aw	120	HIS	CA-CB-CG	6.56	120.36	113.80
1	br	188	THR	CA-C-N	6.56	129.61	120.29
1	br	188	THR	C-N-CA	6.56	129.61	120.29
1	bX	29	GLU	O-C-N	-6.56	112.64	122.28
1	c1	154	ARG	NH1-CZ-NH2	-6.56	110.77	119.30
1	c4	201	ILE	N-CA-C	6.56	117.34	110.72
1	1c	112	GLN	N-CA-C	-6.56	104.21	111.82
1	cw	40	PHE	CA-CB-CG	-6.56	107.24	113.80
1	cI	13	GLN	N-CA-C	-6.56	99.49	109.85
1	cU	71	GLU	N-CA-C	6.56	118.43	111.28
1	cW	142	VAL	N-CA-CB	6.56	119.46	110.54
1	di	43	LEU	CA-C-O	6.56	126.94	119.27
1	dp	50	GLN	N-CA-CB	-6.56	100.48	110.12
1	dB	97	ARG	CA-C-N	6.56	129.81	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dB	97	ARG	C-N-CA	6.56	129.81	120.49
1	dG	164	TYR	CA-C-N	6.56	128.83	120.56
1	dG	164	TYR	C-N-CA	6.56	128.83	120.56
1	ej	167	ARG	CA-C-N	6.56	128.97	120.44
1	ej	167	ARG	C-N-CA	6.56	128.97	120.44
1	eq	229	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	ew	124	ILE	CA-C-O	-6.56	116.42	120.88
1	eB	97	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	eT	34	PRO	CA-C-N	6.56	129.73	120.28
1	eT	34	PRO	C-N-CA	6.56	129.73	120.28
1	f4	161	PHE	CA-CB-CG	-6.56	107.24	113.80
1	f6	121	ASN	O-C-N	6.56	128.60	121.12
1	fu	74	ASN	N-CA-CB	6.56	119.76	110.12
1	fV	95	GLN	N-CA-C	6.56	119.74	110.23
1	3	227	LYS	O-C-N	-6.56	114.74	122.81
1	F	21	ASN	CA-C-N	6.56	128.97	120.44
1	F	21	ASN	C-N-CA	6.56	128.97	120.44
1	O	149	SER	N-CA-C	6.56	118.77	110.24
1	S	31	ALA	N-CA-C	6.56	120.42	111.17
1	gn	82	ARG	CA-C-O	6.56	127.70	120.82
1	gu	56	LEU	N-CA-C	6.56	119.27	111.33
1	h2	203	LYS	N-CA-C	6.56	118.98	111.11
1	ha	8	GLY	O-C-N	-6.56	116.05	122.87
1	hg	199	LYS	N-CA-C	6.56	118.43	111.28
1	hy	3	VAL	N-CA-CB	6.56	119.72	111.46
1	ia	40	PHE	CA-C-O	6.56	127.50	120.55
1	ie	135	ILE	CA-C-N	6.56	129.07	120.28
1	ie	135	ILE	C-N-CA	6.56	129.07	120.28
1	if	126	VAL	CB-CA-C	-6.56	103.49	111.88
1	j6	6	LEU	N-CA-C	6.56	120.74	112.87
1	jr	137	GLY	O-C-N	-6.56	115.90	122.19
1	jA	25	LYS	CA-C-N	6.56	128.82	120.56
1	jA	25	LYS	C-N-CA	6.56	128.82	120.56
1	jV	53	ASN	CA-CB-CG	-6.56	106.04	112.60
1	k3	121	ASN	OD1-CG-ND2	-6.56	116.04	122.60
1	k5	70	LYS	N-CA-C	6.56	119.25	111.71
1	k7	31	ALA	O-C-N	-6.56	113.87	122.59
1	k7	51	ASP	CB-CA-C	-6.56	100.58	110.88
1	kX	223	GLY	O-C-N	6.56	128.33	121.77
1	kY	228	ALA	N-CA-C	6.56	120.56	111.90
1	ls	221	VAL	CA-CB-CG2	6.56	121.55	110.40
1	2g	64	ALA	N-CA-C	6.56	118.09	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	69	LEU	N-CA-C	6.56	118.43	111.28
1	2j	123	PRO	CB-CA-C	6.56	119.78	111.39
1	2p	84	HIS	CA-C-O	-6.56	113.66	120.09
1	2B	61	GLY	O-C-N	-6.56	114.91	122.91
1	2E	33	SER	CA-C-N	6.56	127.08	119.47
1	2E	33	SER	C-N-CA	6.56	127.08	119.47
1	2J	93	PRO	CB-CA-C	6.56	119.44	110.52
1	2R	178	SER	O-C-N	-6.56	114.74	122.81
1	36	87	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
1	36	106	GLY	N-CA-C	-6.56	106.02	115.27
1	39	101	GLY	CA-C-N	6.56	129.60	120.29
1	39	101	GLY	C-N-CA	6.56	129.60	120.29
1	3E	112	GLN	N-CA-C	6.56	118.98	111.11
1	3R	162	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	4A	66	MET	N-CA-CB	6.56	119.52	110.01
1	59	86	VAL	N-CA-C	6.56	117.89	109.30
1	59	87	HIS	CA-CB-CG	6.56	120.36	113.80
1	5k	158	LYS	CA-C-O	6.56	125.96	119.08
1	5L	133	TRP	CG-CD2-CE3	6.56	140.46	133.90
1	68	198	CYS	CA-C-O	-6.56	112.05	119.79
1	6E	183	ASN	N-CA-CB	6.56	119.52	110.01
1	72	127	GLY	O-C-N	-6.56	115.83	122.19
1	7j	85	PRO	N-CA-CB	6.56	107.52	102.73
1	7H	179	GLN	N-CA-C	6.56	122.12	111.37
1	7U	40	PHE	N-CA-C	6.56	118.09	111.07
1	8S	174	ALA	CA-C-N	6.56	130.02	120.71
1	8S	174	ALA	C-N-CA	6.56	130.02	120.71
1	9c	45	GLU	N-CA-C	6.56	120.14	111.75
1	9m	21	ASN	N-CA-C	6.56	119.25	111.71
1	9s	87	HIS	N-CA-C	6.56	119.27	110.35
1	9y	82	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	9A	50	GLN	CA-CB-CG	6.56	127.21	114.10
1	9U	140	LYS	O-C-N	-6.56	115.17	122.12
1	Z	62	HIS	O-C-N	-6.56	113.62	122.41
1	ad	85	PRO	N-CA-CB	6.56	109.01	103.17
1	aq	2	ILE	CA-C-N	6.56	131.19	122.93
1	aq	2	ILE	C-N-CA	6.56	131.19	122.93
1	as	171	THR	N-CA-C	6.56	118.98	111.11
1	av	92	GLU	CA-C-N	6.56	128.04	119.84
1	av	92	GLU	C-N-CA	6.56	128.04	119.84
1	14	131	LYS	CA-C-O	-6.56	113.58	120.92
1	aO	117	TRP	N-CA-C	6.56	118.43	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aY	62	HIS	ND1-CG-CD2	6.56	112.66	106.10
1	b2	212	GLU	CA-C-N	6.56	130.28	120.31
1	b2	212	GLU	C-N-CA	6.56	130.28	120.31
1	be	170	LYS	CA-C-O	6.56	127.37	120.42
1	bj	52	LEU	CA-C-N	6.56	128.96	120.44
1	bj	52	LEU	C-N-CA	6.56	128.96	120.44
1	br	217	ALA	CA-C-N	6.56	131.45	122.34
1	br	217	ALA	C-N-CA	6.56	131.45	122.34
1	by	226	HIS	N-CA-C	6.56	119.74	110.23
1	bL	120	HIS	CE1-NE2-CD2	-6.56	102.44	109.00
1	c2	134	ILE	CB-CG1-CD1	6.56	127.57	113.80
1	1e	40	PHE	CA-CB-CG	-6.56	107.24	113.80
1	cq	126	VAL	N-CA-C	6.56	117.31	110.62
1	cQ	21	ASN	CA-CB-CG	-6.56	106.04	112.60
1	dz	188	THR	CA-C-N	6.56	129.60	120.29
1	dz	188	THR	C-N-CA	6.56	129.60	120.29
1	e1	199	LYS	N-CA-C	6.56	119.27	111.33
1	f2	82	ARG	NE-CZ-NH2	-6.56	113.30	119.20
1	fb	127	GLY	O-C-N	-6.56	115.29	122.24
1	fC	209	ALA	N-CA-C	6.56	119.73	109.96
1	1y	110	THR	CA-C-N	6.56	129.07	120.28
1	1y	110	THR	C-N-CA	6.56	129.07	120.28
1	fL	1	PRO	CA-C-N	6.56	131.82	123.10
1	fL	1	PRO	C-N-CA	6.56	131.82	123.10
1	fM	126	VAL	CA-C-N	6.56	127.26	119.98
1	fM	126	VAL	C-N-CA	6.56	127.26	119.98
1	3	219	GLN	N-CA-C	6.56	119.53	110.35
1	Q	189	LEU	O-C-N	-6.56	115.17	122.12
1	R	204	ALA	N-CA-C	6.56	118.51	111.36
1	W	135	ILE	N-CA-CB	6.56	119.46	110.54
1	gk	130	TYR	CA-C-O	6.56	127.37	120.42
1	hi	102	SER	N-CA-C	6.56	119.42	111.82
1	hw	191	VAL	O-C-N	-6.56	115.78	122.14
1	hD	193	ASN	CA-C-N	6.56	131.77	122.72
1	hD	193	ASN	C-N-CA	6.56	131.77	122.72
1	iv	101	GLY	O-C-N	-6.56	115.33	122.54
1	iY	220	GLY	O-C-N	-6.56	114.80	122.60
1	jF	179	GLN	OE1-CD-NE2	-6.56	116.04	122.60
1	20	91	ILE	CA-C-N	6.56	129.50	120.39
1	20	91	ILE	C-N-CA	6.56	129.50	120.39
1	lN	66	MET	O-C-N	-6.56	115.32	122.07
1	2w	63	GLN	N-CA-C	6.56	118.98	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	36	123	PRO	N-CA-CB	-6.56	97.81	103.32
1	3M	43	LEU	N-CA-CB	-6.56	100.96	110.47
1	3S	124	ILE	CA-C-O	-6.56	114.92	119.38
1	4d	110	THR	CA-C-N	6.56	128.96	120.44
1	4d	110	THR	C-N-CA	6.56	128.96	120.44
1	4l	5	ASN	O-C-N	-6.56	115.38	122.85
1	5t	145	TYR	N-CA-CB	-6.56	100.99	110.56
1	5P	10	MET	CA-C-O	6.56	128.52	121.05
1	6t	126	VAL	CA-C-N	6.56	127.26	119.98
1	6t	126	VAL	C-N-CA	6.56	127.26	119.98
1	6Z	212	GLU	CA-C-O	6.56	127.70	120.82
1	7h	227	LYS	CA-C-O	6.56	128.15	121.07
1	7l	141	ILE	N-CA-C	6.56	116.69	110.53
1	88	27	VAL	O-C-N	-6.56	115.48	121.91
1	8K	12	HIS	N-CA-C	6.56	119.98	110.28
1	aL	132	ARG	N-CA-CB	6.56	119.86	110.16
1	aN	39	MET	CA-C-N	6.56	129.39	120.54
1	aN	39	MET	C-N-CA	6.56	129.39	120.54
1	bJ	48	THR	CA-C-O	-6.56	113.54	120.88
1	c7	92	GLU	CA-C-N	6.56	126.25	119.82
1	c7	92	GLU	C-N-CA	6.56	126.25	119.82
1	cl	167	ARG	NE-CZ-NH2	6.56	125.10	119.20
1	cQ	31	ALA	N-CA-C	6.56	119.62	108.67
1	cW	18	ARG	NE-CZ-NH1	6.56	128.06	121.50
1	d2	15	ILE	N-CA-C	6.56	117.49	108.84
1	dN	24	VAL	CA-C-N	6.56	130.28	120.31
1	dN	24	VAL	C-N-CA	6.56	130.28	120.31
1	dZ	98	GLU	O-C-N	-6.56	114.72	121.28
1	ei	189	LEU	CB-CA-C	6.56	121.62	110.74
1	eP	132	ARG	N-CA-C	6.56	118.08	111.07
1	f8	106	GLY	CA-C-N	6.56	129.36	120.44
1	f8	106	GLY	C-N-CA	6.56	129.36	120.44
1	fq	217	ALA	CA-C-N	6.56	131.45	122.34
1	fq	217	ALA	C-N-CA	6.56	131.45	122.34
1	1z	49	PRO	N-CA-CB	6.56	110.13	103.25
1	g	190	LEU	N-CA-C	6.56	118.43	111.28
1	k	184	TRP	CB-CG-CD2	6.56	135.98	126.80
1	gk	179	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	hp	188	THR	O-C-N	6.55	129.07	122.12
1	hs	121	ASN	CA-CB-CG	6.55	119.16	112.60
1	hN	187	GLU	N-CA-C	6.55	118.42	111.28
1	ic	113	GLU	N-CA-C	6.55	118.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	if	171	THR	O-C-N	-6.55	114.68	122.15
1	ji	117	TRP	CE2-CD2-CE3	-6.55	112.25	118.80
1	jF	130	TYR	CA-C-N	6.55	129.06	120.28
1	jF	130	TYR	C-N-CA	6.55	129.06	120.28
1	jX	141	ILE	CA-C-O	6.55	127.87	121.05
1	jZ	13	GLN	CA-C-N	6.55	130.46	120.82
1	jZ	13	GLN	C-N-CA	6.55	130.46	120.82
1	k1	229	ARG	N-CA-CB	6.55	119.67	110.04
1	kb	175	GLU	CA-C-N	6.55	132.83	122.60
1	kb	175	GLU	C-N-CA	6.55	132.83	122.60
1	kg	18	ARG	N-CA-C	6.55	118.42	111.28
1	kj	171	THR	N-CA-CB	6.55	119.76	110.12
1	kq	82	ARG	NE-CZ-NH1	6.55	128.06	121.50
1	l7	44	SER	CB-CA-C	-6.55	99.91	110.79
1	le	117	TRP	O-C-N	6.55	128.82	122.07
1	lA	10	MET	N-CA-C	6.55	120.29	111.24
1	lD	148	THR	O-C-N	-6.55	115.74	123.41
1	lP	186	THR	CA-CB-OG1	-6.55	99.77	109.60
1	2l	155	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	2t	103	ASP	CA-C-O	-6.55	113.60	120.55
1	2x	60	GLY	CA-C-O	-6.55	113.71	120.66
1	2S	41	SER	N-CA-C	6.55	118.98	111.11
1	2U	197	ASP	CA-C-O	6.55	127.37	120.42
1	2W	180	GLU	O-C-N	-6.55	114.68	122.15
1	32	104	ILE	CB-CA-C	-6.55	103.29	112.14
1	3g	162	ARG	O-C-N	-6.55	114.55	122.22
1	3v	94	GLY	O-C-N	-6.55	117.17	122.81
1	4k	37	ILE	CA-C-O	-6.55	114.30	118.69
1	4k	179	GLN	CG-CD-OE1	6.55	133.91	120.80
1	4y	24	VAL	O-C-N	-6.55	115.51	121.87
1	4K	176	GLN	CG-CD-NE2	6.55	126.23	116.40
1	4Y	32	PHE	CA-C-O	6.55	126.26	119.05
1	5l	68	MET	CA-C-N	6.55	129.39	120.54
1	5l	68	MET	C-N-CA	6.55	129.39	120.54
1	5q	18	ARG	NE-CZ-NH1	6.55	128.06	121.50
1	5t	12	HIS	N-CA-C	6.55	119.22	109.59
1	5Q	65	ALA	N-CA-C	6.55	118.22	111.14
1	5X	183	ASN	N-CA-C	6.55	119.02	111.02
1	6F	223	GLY	CA-C-N	6.55	128.03	119.84
1	6F	223	GLY	C-N-CA	6.55	128.03	119.84
1	6S	170	LYS	CA-C-N	6.55	129.60	120.29
1	6S	170	LYS	C-N-CA	6.55	129.60	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6T	131	LYS	O-C-N	-6.55	115.17	122.12
1	7j	88	ALA	CA-C-O	6.55	128.39	120.92
1	7E	129	ILE	N-CA-C	6.55	117.31	110.62
1	7F	51	ASP	CA-CB-CG	6.55	119.15	112.60
1	81	5	ASN	CA-CB-CG	-6.55	106.05	112.60
1	83	221	VAL	O-C-N	-6.55	115.17	122.05
1	8T	185	MET	CA-C-O	6.55	127.52	120.24
1	8V	65	ALA	N-CA-C	6.55	118.42	111.28
1	98	153	ILE	O-C-N	-6.55	115.68	122.63
1	9L	185	MET	N-CA-C	6.55	118.08	111.07
1	9N	191	VAL	O-C-N	-6.55	115.78	122.14
1	ag	162	ARG	N-CA-C	6.55	118.08	111.07
1	ap	163	ASP	CA-CB-CG	-6.55	106.05	112.60
1	ax	221	VAL	CA-C-N	6.55	130.94	121.44
1	ax	221	VAL	C-N-CA	6.55	130.94	121.44
1	ay	132	ARG	NE-CZ-NH2	-6.55	113.30	119.20
1	14	100	ARG	NE-CZ-NH2	-6.55	113.30	119.20
1	aY	22	ALA	N-CA-C	6.55	118.08	111.07
1	bj	185	MET	CA-C-N	6.55	129.06	120.28
1	bj	185	MET	C-N-CA	6.55	129.06	120.28
1	bH	179	GLN	N-CA-C	6.55	124.76	110.80
1	bI	63	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	bP	92	GLU	O-C-N	-6.55	114.65	120.48
1	c6	63	GLN	CA-C-O	6.55	126.94	119.27
1	ch	51	ASP	N-CA-C	6.55	118.08	111.07
1	ci	173	ARG	CA-C-N	6.55	129.06	120.28
1	ci	173	ARG	C-N-CA	6.55	129.06	120.28
1	cj	83	LEU	O-C-N	-6.55	113.48	122.46
1	cj	130	TYR	N-CA-C	6.55	118.08	111.07
1	cP	166	ASP	O-C-N	-6.55	115.32	122.07
1	1i	95	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	d6	33	SER	CA-C-O	-6.55	114.68	120.19
1	dh	211	LEU	CA-C-N	6.55	130.65	120.82
1	dh	211	LEU	C-N-CA	6.55	130.65	120.82
1	dv	37	ILE	CA-C-O	-6.55	113.28	118.85
1	dA	12	HIS	CB-CA-C	-6.55	99.16	109.84
1	dW	207	PRO	CA-C-N	6.55	131.70	122.46
1	dW	207	PRO	C-N-CA	6.55	131.70	122.46
1	1o	171	THR	N-CA-C	-6.55	104.06	111.14
1	eb	79	GLU	CA-C-N	6.55	129.06	120.28
1	eb	79	GLU	C-N-CA	6.55	129.06	120.28
1	ed	169	TYR	CA-CB-CG	-6.55	102.10	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ef	31	ALA	N-CA-C	6.55	119.16	108.08
1	en	168	PHE	O-C-N	-6.55	115.21	122.03
1	eq	29	GLU	N-CA-C	6.55	118.50	111.36
1	es	87	HIS	ND1-CE1-NE2	6.55	114.95	108.40
1	eS	91	ILE	CA-C-N	6.55	129.50	120.39
1	eS	91	ILE	C-N-CA	6.55	129.50	120.39
1	fp	88	ALA	N-CA-C	6.55	119.73	110.23
1	fJ	52	LEU	O-C-N	6.55	129.62	122.15
1	fL	112	GLN	O-C-N	-6.55	115.17	122.12
1	g2	133	TRP	CA-C-N	6.55	128.82	120.56
1	g2	133	TRP	C-N-CA	6.55	128.82	120.56
1	n	13	GLN	O-C-N	-6.55	116.41	123.42
1	u	74	ASN	CA-C-O	-6.55	113.94	120.82
1	R	126	VAL	N-CA-C	6.55	118.09	110.62
1	5	159	GLU	O-C-N	-6.55	114.47	121.42
1	9	25	LYS	CA-C-O	6.55	127.91	120.90
1	h2	90	PRO	CA-C-N	-6.55	115.06	123.19
1	h2	90	PRO	C-N-CA	-6.55	115.06	123.19
1	hs	167	ARG	CA-C-N	6.55	128.96	120.44
1	hs	167	ARG	C-N-CA	6.55	128.96	120.44
1	1L	141	ILE	N-CA-CB	6.55	117.78	110.51
1	jj	215	MET	N-CA-C	6.55	120.88	113.02
1	1Z	133	TRP	CA-C-O	6.55	127.50	120.55
1	kj	109	SER	O-C-N	-6.55	115.67	123.27
1	kC	162	ARG	O-C-N	-6.55	115.17	122.12
1	kV	84	HIS	CB-CG-CD2	-6.55	122.68	131.20
1	2s	97	ARG	NE-CZ-NH2	6.55	125.10	119.20
1	2N	143	ARG	N-CA-C	6.55	118.42	111.28
1	3j	224	PRO	N-CA-CB	-6.55	96.37	103.25
1	55	120	HIS	CA-CB-CG	6.55	120.35	113.80
1	5p	202	LEU	CA-C-O	-6.55	113.60	120.55
1	5K	182	LYS	N-CA-CB	6.55	119.51	110.01
1	5W	18	ARG	O-C-N	-6.55	114.68	122.15
1	67	54	THR	CA-C-N	6.55	128.96	120.44
1	67	54	THR	C-N-CA	6.55	128.96	120.44
1	6K	214	MET	CA-C-O	6.55	127.70	120.82
1	7v	33	SER	O-C-N	-6.55	114.32	121.53
1	88	27	VAL	CA-C-N	6.55	128.96	120.44
1	88	27	VAL	C-N-CA	6.55	128.96	120.44
1	8C	142	VAL	CG1-CB-CG2	-6.55	96.38	110.80
1	99	37	ILE	O-C-N	-6.55	113.63	121.10
1	9I	95	GLN	CA-C-O	6.55	127.59	120.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9W	33	SER	CA-C-O	-6.55	114.31	120.34
1	aH	219	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	bg	195	ASN	CA-C-O	-6.55	113.28	120.69
1	bQ	158	LYS	N-CA-CB	-6.55	100.94	110.70
1	bT	122	PRO	CA-C-N	6.55	126.51	119.76
1	bT	122	PRO	C-N-CA	6.55	126.51	119.76
1	1b	156	GLY	CA-C-N	6.55	126.94	119.93
1	1b	156	GLY	C-N-CA	6.55	126.94	119.93
1	c8	224	PRO	CB-CA-C	-6.55	103.19	111.71
1	cB	36	VAL	CA-C-N	6.55	124.37	120.24
1	cB	36	VAL	C-N-CA	6.55	124.37	120.24
1	eZ	64	ALA	CA-C-N	6.55	128.96	120.44
1	eZ	64	ALA	C-N-CA	6.55	128.96	120.44
1	f1	192	GLN	CB-CA-C	6.55	123.46	110.42
1	f3	89	GLY	O-C-N	-6.55	115.22	121.77
1	f6	226	HIS	CB-CA-C	-6.55	98.54	109.55
1	f8	171	THR	N-CA-CB	6.55	119.86	110.16
1	fl	159	GLU	CA-C-O	-6.55	113.93	119.76
1	fR	40	PHE	O-C-N	-6.55	114.68	122.15
1	H	68	MET	N-CA-C	6.55	118.08	111.07
1	gQ	106	GLY	O-C-N	-6.55	115.58	122.52
1	h4	23	TRP	CA-C-N	6.55	128.81	120.56
1	h4	23	TRP	C-N-CA	6.55	128.81	120.56
1	h8	196	PRO	N-CA-C	6.55	123.51	113.75
1	ha	63	GLN	N-CA-C	6.55	121.27	113.28
1	hr	14	ALA	CB-CA-C	-6.55	100.95	110.06
1	hB	223	GLY	CA-C-N	6.55	128.03	119.84
1	hB	223	GLY	C-N-CA	6.55	128.03	119.84
1	i9	12	HIS	CA-CB-CG	-6.55	107.25	113.80
1	1O	205	LEU	CA-C-N	6.55	132.16	121.87
1	1O	205	LEU	C-N-CA	6.55	132.16	121.87
1	iW	2	ILE	N-CA-CB	6.55	119.24	110.26
1	iZ	73	ILE	N-CA-C	6.55	117.34	110.72
1	1V	128	GLU	N-CA-C	6.55	118.50	111.36
1	jz	157	PRO	CA-C-N	6.55	131.50	120.88
1	jz	157	PRO	C-N-CA	6.55	131.50	120.88
1	k7	196	PRO	CA-C-N	6.55	129.06	120.28
1	k7	196	PRO	C-N-CA	6.55	129.06	120.28
1	kh	132	ARG	CA-C-N	6.55	129.06	120.28
1	kh	132	ARG	C-N-CA	6.55	129.06	120.28
1	kK	129	ILE	N-CA-C	6.55	117.17	110.82
1	26	132	ARG	N-CA-CB	6.55	119.75	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	55	MET	N-CA-C	6.55	118.42	111.28
1	2q	209	ALA	N-CA-C	6.55	119.73	110.23
1	2r	82	ARG	CA-C-O	6.55	127.70	120.82
1	2U	217	ALA	N-CA-C	6.55	119.18	110.53
1	39	50	GLN	O-C-N	-6.55	115.17	122.12
1	3p	204	ALA	N-CA-C	6.55	118.42	111.28
1	3T	67	GLN	O-C-N	-6.55	115.18	122.12
1	47	30	LYS	N-CA-C	-6.55	104.43	112.88
1	4J	226	HIS	CA-CB-CG	6.55	120.35	113.80
1	4U	176	GLN	OE1-CD-NE2	6.55	129.15	122.60
1	5J	109	SER	CA-C-O	-6.55	113.80	121.46
1	6i	57	ASN	CA-C-O	6.55	127.44	119.38
1	7b	14	ALA	N-CA-C	6.55	118.78	110.33
1	7j	62	HIS	CA-CB-CG	-6.55	107.25	113.80
1	7o	68	MET	CA-C-O	6.55	127.50	120.55
1	88	115	ILE	O-C-N	-6.55	115.52	121.87
1	9d	186	THR	N-CA-C	6.55	119.24	111.71
1	9g	186	THR	N-CA-C	6.55	118.42	111.28
1	9I	110	THR	CA-CB-CG2	6.55	121.64	110.50
1	9P	57	ASN	CA-C-O	-6.55	113.94	120.82
1	9S	105	ALA	O-C-N	-6.55	113.42	122.46
1	af	12	HIS	CG-CD2-NE2	6.55	113.75	107.20
1	aC	15	ILE	N-CA-C	6.55	119.06	109.63
1	aG	166	ASP	CA-C-N	6.55	128.96	120.44
1	aG	166	ASP	C-N-CA	6.55	128.96	120.44
1	14	81	ASP	O-C-N	-6.55	115.18	122.12
1	aZ	35	GLU	N-CA-C	6.55	119.24	111.71
1	b7	23	TRP	CA-C-O	6.55	127.91	120.90
1	b9	11	VAL	O-C-N	-6.55	116.12	123.20
1	b9	108	THR	CA-CB-CG2	-6.55	99.36	110.50
1	bB	130	TYR	CA-C-O	6.55	127.50	120.55
1	bR	135	ILE	CA-C-N	6.55	129.36	120.38
1	bR	135	ILE	C-N-CA	6.55	129.36	120.38
1	c4	24	VAL	N-CA-C	6.55	117.24	110.36
1	1c	227	LYS	CA-C-N	6.55	131.23	120.94
1	1c	227	LYS	C-N-CA	6.55	131.23	120.94
1	d6	16	SER	CA-C-N	6.55	127.07	119.47
1	d6	16	SER	C-N-CA	6.55	127.07	119.47
1	1j	87	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	dq	97	ARG	NE-CZ-NH2	6.55	125.10	119.20
1	dJ	134	ILE	CA-C-N	6.55	129.43	120.46
1	dJ	134	ILE	C-N-CA	6.55	129.43	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dV	24	VAL	CA-C-O	6.55	127.51	119.58
1	dZ	35	GLU	N-CA-C	-6.55	104.92	113.17
1	e2	173	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	e9	62	HIS	ND1-CE1-NE2	6.55	114.95	108.40
1	ek	184	TRP	O-C-N	-6.55	115.18	122.12
1	ev	22	ALA	CA-C-N	6.55	128.96	120.44
1	ev	22	ALA	C-N-CA	6.55	128.96	120.44
1	eD	142	VAL	CA-CB-CG2	-6.55	99.26	110.40
1	eK	107	THR	CA-CB-CG2	6.55	121.64	110.50
1	eL	213	GLU	N-CA-C	6.55	118.42	111.28
1	fc	153	ILE	N-CA-CB	6.55	117.67	110.53
1	fj	155	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	fq	84	HIS	CA-C-O	-6.55	114.10	120.19
1	g6	71	GLU	CA-C-N	6.55	129.39	120.54
1	g6	71	GLU	C-N-CA	6.55	129.39	120.54
1	g	226	HIS	CA-CB-CG	-6.55	107.25	113.80
1	E	37	ILE	CA-C-N	6.55	125.99	118.85
1	E	37	ILE	C-N-CA	6.55	125.99	118.85
1	4	115	ILE	O-C-N	-6.55	115.47	121.89
1	4	201	ILE	N-CA-C	6.55	116.71	110.42
1	U	191	VAL	CA-C-N	6.55	129.06	120.28
1	U	191	VAL	C-N-CA	6.55	129.06	120.28
1	8	71	GLU	N-CA-C	6.55	118.42	111.28
1	gv	212	GLU	CA-C-N	6.55	129.59	120.29
1	gv	212	GLU	C-N-CA	6.55	129.59	120.29
1	h7	57	ASN	CA-CB-CG	-6.55	106.05	112.60
1	hR	50	GLN	N-CA-CB	6.55	119.51	110.01
1	iX	148	THR	O-C-N	-6.55	115.65	123.31
1	iY	185	MET	CA-C-N	6.55	129.06	120.28
1	iY	185	MET	C-N-CA	6.55	129.06	120.28
1	j9	42	ALA	O-C-N	-6.55	115.18	122.12
1	jC	200	THR	CB-CA-C	6.55	121.33	110.92
1	1Z	142	VAL	CA-C-N	6.55	129.06	120.28
1	1Z	142	VAL	C-N-CA	6.55	129.06	120.28
1	km	181	VAL	N-CA-CB	6.55	118.21	110.55
1	kS	87	HIS	CB-CG-CD2	-6.55	122.69	131.20
1	l3	134	ILE	N-CA-C	6.55	117.30	110.62
1	lb	130	TYR	CA-C-N	6.55	129.71	120.28
1	lb	130	TYR	C-N-CA	6.55	129.71	120.28
1	ld	40	PHE	O-C-N	-6.55	115.33	122.07
1	29	70	LYS	N-CA-C	6.55	118.08	111.07
1	2G	195	ASN	CA-C-N	6.55	128.03	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2G	195	ASN	C-N-CA	6.55	128.03	119.84
1	2U	63	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	34	86	VAL	N-CA-CB	6.55	120.16	111.64
1	4r	193	ASN	CA-CB-CG	-6.55	106.05	112.60
1	5t	148	THR	O-C-N	-6.55	113.88	122.59
1	5M	184	TRP	O-C-N	-6.55	115.32	122.07
1	5N	143	ARG	CA-C-O	6.55	127.36	120.42
1	64	12	HIS	O-C-N	-6.55	114.81	122.87
1	64	182	LYS	N-CA-C	6.55	120.13	111.75
1	6E	162	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	6N	82	ARG	N-CA-C	-6.55	105.20	113.72
1	6X	171	THR	N-CA-C	6.55	118.42	111.28
1	74	12	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	7c	111	LEU	O-C-N	-6.55	115.18	122.12
1	7o	153	ILE	CA-CB-CG1	6.55	121.53	110.40
1	7E	5	ASN	CA-CB-CG	6.55	119.15	112.60
1	7X	131	LYS	O-C-N	-6.55	115.18	122.12
1	80	87	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	83	62	HIS	N-CA-C	6.55	120.12	111.28
1	8F	42	ALA	CA-C-O	6.55	127.70	120.63
1	8N	63	GLN	N-CA-C	6.55	120.53	112.54
1	8Q	62	HIS	CA-C-N	6.55	129.06	120.28
1	8Q	62	HIS	C-N-CA	6.55	129.06	120.28
1	9h	179	GLN	O-C-N	-6.55	115.18	122.12
1	9K	92	GLU	N-CA-C	-6.55	100.25	110.14
1	bp	15	ILE	CA-CB-CG2	6.55	121.63	110.50
1	18	191	VAL	CA-C-N	6.55	129.35	120.38
1	18	191	VAL	C-N-CA	6.55	129.35	120.38
1	bU	134	ILE	N-CA-C	6.55	117.24	110.36
1	c3	81	ASP	N-CA-C	6.55	119.26	111.33
1	c7	11	VAL	O-C-N	-6.55	115.62	123.02
1	c9	26	VAL	N-CA-CB	6.55	119.45	110.54
1	c9	39	MET	N-CA-C	6.55	118.08	111.07
1	cp	13	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	cE	32	PHE	CA-CB-CG	-6.55	107.25	113.80
1	cM	143	ARG	N-CA-C	6.55	118.21	111.14
1	d6	63	GLN	OE1-CD-NE2	6.55	129.15	122.60
1	d7	54	THR	CA-C-N	6.55	128.95	120.44
1	d7	54	THR	C-N-CA	6.55	128.95	120.44
1	dd	12	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
1	di	10	MET	CG-SD-CE	-6.55	86.49	100.90
1	1l	154	ARG	NE-CZ-NH2	-6.55	113.31	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dJ	148	THR	CB-CA-C	-6.55	100.71	109.16
1	dP	89	GLY	O-C-N	6.55	128.32	121.77
1	e5	106	GLY	O-C-N	-6.55	114.20	122.32
1	ec	11	VAL	O-C-N	-6.55	115.69	122.63
1	en	71	GLU	O-C-N	-6.55	115.18	122.12
1	es	48	THR	CA-CB-OG1	6.55	119.42	109.60
1	ew	82	ARG	NE-CZ-NH2	-6.55	113.31	119.20
1	eB	156	GLY	CA-C-N	6.55	126.79	119.32
1	eB	156	GLY	C-N-CA	6.55	126.79	119.32
1	eH	152	ASP	CA-CB-CG	6.55	119.15	112.60
1	fb	37	ILE	N-CA-CB	-6.55	105.34	110.45
1	fl	139	ASN	CA-C-N	6.55	129.06	120.28
1	fl	139	ASN	C-N-CA	6.55	129.06	120.28
1	fm	69	LEU	CA-C-N	6.55	128.95	120.44
1	fm	69	LEU	C-N-CA	6.55	128.95	120.44
1	fr	162	ARG	NE-CZ-NH2	-6.55	113.31	119.20
1	fC	221	VAL	N-CA-C	6.55	120.13	109.78
1	fQ	200	THR	N-CA-C	6.55	118.50	111.36
1	g0	133	TRP	N-CA-C	6.55	119.24	111.71
1	b	161	PHE	O-C-N	-6.55	115.18	122.12
1	N	59	VAL	CA-CB-CG1	-6.55	99.27	110.40
1	R	69	LEU	CB-CA-C	6.55	121.99	110.85
1	gG	29	GLU	N-CA-C	6.55	122.76	114.31
1	gH	134	ILE	N-CA-C	6.55	116.71	110.42
1	gT	191	VAL	CA-C-N	6.55	129.06	120.28
1	gT	191	VAL	C-N-CA	6.55	129.06	120.28
1	1W	111	LEU	N-CA-C	6.55	118.42	111.28
1	1X	115	ILE	N-CA-CB	6.55	118.95	110.57
1	kE	126	VAL	N-CA-CB	6.55	119.44	110.54
1	l7	71	GLU	CA-C-O	6.55	127.49	120.55
1	lw	227	LYS	N-CA-C	6.55	118.42	111.28
1	lG	220	GLY	CA-C-N	6.55	129.45	120.35
1	lG	220	GLY	C-N-CA	6.55	129.45	120.35
1	lQ	124	ILE	O-C-N	-6.55	114.67	120.96
1	3J	62	HIS	CA-CB-CG	-6.55	107.25	113.80
1	3R	179	GLN	O-C-N	-6.55	115.18	122.12
1	4T	138	LEU	CA-C-N	6.55	129.05	120.28
1	4T	138	LEU	C-N-CA	6.55	129.05	120.28
1	5f	32	PHE	CA-CB-CG	-6.55	107.25	113.80
1	5y	172	LEU	N-CA-C	6.55	118.50	111.36
1	5X	96	MET	N-CA-C	6.55	120.33	110.64
1	75	16	SER	CA-C-O	-6.55	114.69	120.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	177	ALA	CA-C-O	6.55	128.40	121.33
1	89	198	CYS	CA-C-N	6.55	129.35	120.38
1	89	198	CYS	C-N-CA	6.55	129.35	120.38
1	8p	103	ASP	N-CA-CB	6.55	119.56	110.07
1	8B	182	LYS	N-CA-C	6.55	118.08	111.07
1	8F	65	ALA	O-C-N	-6.55	114.69	122.15
1	8V	178	SER	N-CA-C	6.55	118.75	110.24
1	9i	209	ALA	N-CA-C	6.55	119.72	110.23
1	9r	84	HIS	ND1-CE1-NE2	6.55	114.95	108.40
1	9D	73	ILE	CA-C-N	6.55	128.95	120.44
1	9D	73	ILE	C-N-CA	6.55	128.95	120.44
1	9E	113	GLU	O-C-N	-6.55	114.69	122.15
1	ak	190	LEU	CA-C-O	6.55	127.68	120.80
1	aG	103	ASP	CA-C-N	6.55	129.72	120.42
1	aG	103	ASP	C-N-CA	6.55	129.72	120.42
1	be	90	PRO	CA-C-N	6.55	130.41	122.16
1	be	90	PRO	C-N-CA	6.55	130.41	122.16
1	bE	144	MET	CG-SD-CE	-6.55	86.49	100.90
1	bH	103	ASP	CA-C-N	6.55	128.81	120.56
1	bH	103	ASP	C-N-CA	6.55	128.81	120.56
1	bY	185	MET	CG-SD-CE	-6.55	86.49	100.90
1	c8	106	GLY	CA-C-N	6.55	129.59	120.29
1	c8	106	GLY	C-N-CA	6.55	129.59	120.29
1	ct	40	PHE	CA-C-N	6.55	129.06	120.28
1	ct	40	PHE	C-N-CA	6.55	129.06	120.28
1	cw	106	GLY	O-C-N	-6.55	114.67	122.33
1	cV	154	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	db	15	ILE	CA-CB-CG1	6.55	121.53	110.40
1	du	226	HIS	ND1-CE1-NE2	6.55	114.95	108.40
1	dy	117	TRP	N-CA-C	6.55	118.42	111.28
1	dD	57	ASN	CA-C-N	6.55	130.26	120.31
1	dD	57	ASN	C-N-CA	6.55	130.26	120.31
1	e2	58	THR	CA-C-N	6.55	128.81	120.56
1	e2	58	THR	C-N-CA	6.55	128.81	120.56
1	e4	216	THR	CA-C-O	6.55	127.21	119.48
1	f9	181	VAL	N-CA-CB	6.55	120.40	110.58
1	fF	15	ILE	O-C-N	6.55	129.57	122.63
1	r	40	PHE	CA-CB-CG	-6.55	107.25	113.80
1	t	141	ILE	CA-C-N	6.55	129.43	120.46
1	t	141	ILE	C-N-CA	6.55	129.43	120.46
1	3	171	THR	O-C-N	-6.55	115.33	122.07
1	5	208	ALA	N-CA-C	6.55	120.69	111.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gd	172	LEU	CA-C-N	6.55	129.05	120.28
1	gd	172	LEU	C-N-CA	6.55	129.05	120.28
1	gV	172	LEU	N-CA-C	6.55	120.87	113.01
1	h3	224	PRO	N-CA-CB	6.55	110.12	103.25
1	hj	108	THR	CA-CB-CG2	6.55	121.63	110.50
1	hA	65	ALA	N-CA-C	6.55	118.42	111.28
1	hB	144	MET	N-CA-C	6.55	118.42	111.28
1	hQ	154	ARG	NE-CZ-NH1	6.55	128.05	121.50
1	1N	25	LYS	N-CA-CB	6.55	119.74	110.12
1	i6	10	MET	N-CA-C	6.55	120.44	111.54
1	iC	98	GLU	CA-C-O	-6.55	113.18	120.25
1	iX	98	GLU	CA-C-O	-6.55	113.93	119.76
1	jb	56	LEU	N-CA-C	6.55	118.42	111.28
1	jD	79	GLU	N-CA-C	6.55	119.25	111.33
1	ka	50	GLN	N-CA-CB	6.55	119.88	110.06
1	ki	4	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	kr	37	ILE	O-C-N	-6.55	116.23	120.42
1	kr	85	PRO	N-CA-C	6.55	121.49	111.34
1	kt	78	ALA	CA-C-N	6.55	128.95	120.44
1	kt	78	ALA	C-N-CA	6.55	128.95	120.44
1	kJ	219	GLN	N-CA-C	6.55	119.25	110.35
1	lj	10	MET	N-CA-C	6.55	119.25	110.35
1	lt	180	GLU	N-CA-C	6.55	118.42	111.28
1	lw	4	GLN	CB-CG-CD	6.55	123.73	112.60
1	lC	130	TYR	N-CA-C	6.55	118.50	111.36
1	lR	39	MET	CA-C-N	6.55	129.05	120.28
1	lR	39	MET	C-N-CA	6.55	129.05	120.28
1	2g	221	VAL	N-CA-CB	-6.55	103.55	111.21
1	2n	36	VAL	CA-C-N	6.55	125.57	120.33
1	2n	36	VAL	C-N-CA	6.55	125.57	120.33
1	2q	164	TYR	N-CA-C	6.55	118.42	111.28
1	2A	118	MET	CG-SD-CE	-6.55	86.50	100.90
1	2E	199	LYS	N-CA-C	6.55	118.07	111.07
1	2V	26	VAL	N-CA-C	6.55	117.30	110.62
1	2V	52	LEU	O-C-N	-6.55	115.18	122.12
1	3q	152	ASP	CA-C-O	-6.55	112.07	119.79
1	3w	118	MET	N-CA-C	6.55	119.24	111.71
1	3I	2	ILE	O-C-N	-6.55	116.19	123.26
1	4a	75	GLU	N-CA-C	6.55	118.08	111.07
1	4B	66	MET	O-C-N	-6.55	115.18	122.12
1	5f	49	PRO	CA-C-N	6.55	129.38	120.54
1	5f	49	PRO	C-N-CA	6.55	129.38	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	136	LEU	N-CA-C	6.55	119.25	111.33
1	5J	71	GLU	CA-C-O	-6.55	113.48	120.42
1	66	193	ASN	OD1-CG-ND2	-6.55	116.05	122.60
1	6e	183	ASN	CA-CB-CG	-6.55	106.05	112.60
1	6J	109	SER	CA-C-N	6.55	130.01	120.71
1	6J	109	SER	C-N-CA	6.55	130.01	120.71
1	79	54	THR	CA-C-N	6.55	129.34	120.44
1	79	54	THR	C-N-CA	6.55	129.34	120.44
1	7b	222	GLY	CA-C-N	-6.55	111.59	121.87
1	7b	222	GLY	C-N-CA	-6.55	111.59	121.87
1	7w	171	THR	CA-C-N	6.55	130.26	120.31
1	7w	171	THR	C-N-CA	6.55	130.26	120.31
1	81	230	VAL	O-C-N	-6.55	115.53	122.67
1	85	53	ASN	N-CA-C	6.55	120.13	111.75
1	86	155	GLN	CB-CA-C	-6.55	99.17	109.84
1	8j	120	HIS	ND1-CE1-NE2	6.55	114.95	108.40
1	8z	58	THR	CA-C-N	6.55	130.33	120.77
1	8z	58	THR	C-N-CA	6.55	130.33	120.77
1	8H	64	ALA	CA-C-N	6.55	129.05	120.28
1	8H	64	ALA	C-N-CA	6.55	129.05	120.28
1	8M	22	ALA	CA-C-O	6.55	127.69	120.82
1	8T	4	GLN	CB-CG-CD	6.55	123.73	112.60
1	9a	87	HIS	CA-C-N	6.55	129.05	120.28
1	9a	87	HIS	C-N-CA	6.55	129.05	120.28
1	9g	148	THR	CA-C-O	-6.55	113.83	121.16
1	9p	162	ARG	NH1-CZ-NH2	-6.55	110.79	119.30
1	9r	9	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	9F	165	VAL	CA-C-O	-6.55	114.46	121.27
1	9O	13	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	9Q	167	ARG	CA-C-N	6.55	128.95	120.44
1	9Q	167	ARG	C-N-CA	6.55	128.95	120.44
1	a1	9	GLN	OE1-CD-NE2	-6.55	116.05	122.60
1	as	193	ASN	CA-C-N	6.55	130.64	120.75
1	as	193	ASN	C-N-CA	6.55	130.64	120.75
1	b3	203	LYS	CA-C-N	6.55	128.95	120.44
1	b3	203	LYS	C-N-CA	6.55	128.95	120.44
1	be	100	ARG	O-C-N	-6.55	115.33	122.79
1	bo	80	TRP	CH2-CZ2-CE2	-6.55	108.99	117.50
1	bZ	128	GLU	CA-C-N	6.55	129.05	120.60
1	bZ	128	GLU	C-N-CA	6.55	129.05	120.60
1	ch	143	ARG	NH1-CZ-NH2	-6.55	110.79	119.30
1	cm	33	SER	O-C-N	-6.55	116.17	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d9	173	ARG	CA-C-O	-6.55	113.96	120.70
1	dk	79	GLU	N-CA-C	6.55	118.42	111.28
1	1m	71	GLU	CA-C-N	6.55	128.95	120.44
1	1m	71	GLU	C-N-CA	6.55	128.95	120.44
1	ea	113	GLU	N-CA-C	6.55	118.50	111.36
1	ep	128	GLU	N-CA-C	6.55	118.42	111.28
1	fF	192	GLN	N-CA-C	6.55	118.42	111.28
1	fG	42	ALA	O-C-N	-6.55	115.18	122.12
1	fK	52	LEU	CA-C-N	6.55	129.59	120.29
1	fK	52	LEU	C-N-CA	6.55	129.59	120.29
1	p	18	ARG	O-C-N	-6.55	115.33	122.07
1	s	153	ILE	CB-CA-C	-6.55	102.56	111.33
1	E	5	ASN	N-CA-C	-6.55	99.16	109.50
1	gx	191	VAL	CA-C-N	6.54	128.95	120.44
1	gx	191	VAL	C-N-CA	6.54	128.95	120.44
1	gC	90	PRO	CA-C-N	6.54	129.27	120.50
1	gC	90	PRO	C-N-CA	6.54	129.27	120.50
1	1G	181	VAL	N-CA-C	6.54	116.70	110.42
1	he	230	VAL	CA-C-O	-6.54	112.60	120.78
1	hS	89	GLY	CA-C-N	6.54	128.02	119.84
1	hS	89	GLY	C-N-CA	6.54	128.02	119.84
1	iD	34	PRO	N-CA-C	6.54	122.49	113.65
1	iE	208	ALA	CA-C-N	6.54	134.04	121.54
1	iE	208	ALA	C-N-CA	6.54	134.04	121.54
1	jV	61	GLY	CA-C-N	6.54	131.69	122.46
1	jV	61	GLY	C-N-CA	6.54	131.69	122.46
1	lb	91	ILE	O-C-N	-6.54	115.24	122.83
1	lN	115	ILE	CB-CA-C	6.54	120.26	111.88
1	2m	106	GLY	CA-C-N	6.54	129.89	120.79
1	2m	106	GLY	C-N-CA	6.54	129.89	120.79
1	2L	90	PRO	N-CA-CB	-6.54	97.48	103.31
1	2M	136	LEU	N-CA-C	6.54	118.41	111.28
1	4s	12	HIS	CE1-NE2-CD2	-6.54	102.45	109.00
1	4C	146	SER	CA-C-N	6.54	128.02	119.84
1	4C	146	SER	C-N-CA	6.54	128.02	119.84
1	4S	214	MET	CG-SD-CE	-6.54	86.50	100.90
1	5G	37	ILE	N-CA-CB	6.54	115.56	110.45
1	5M	159	GLU	CA-C-N	6.54	126.58	119.90
1	5M	159	GLU	C-N-CA	6.54	126.58	119.90
1	76	166	ASP	CA-C-O	6.54	127.69	120.82
1	7w	120	HIS	CE1-NE2-CD2	-6.54	102.45	109.00
1	8w	149	SER	CA-C-N	6.54	133.75	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8w	149	SER	C-N-CA	6.54	133.75	121.97
1	8I	173	ARG	NE-CZ-NH2	6.54	125.09	119.20
1	8R	143	ARG	NH1-CZ-NH2	6.54	127.81	119.30
1	a6	187	GLU	N-CA-CB	6.54	119.85	110.16
1	au	161	PHE	CA-C-N	6.54	129.05	120.28
1	au	161	PHE	C-N-CA	6.54	129.05	120.28
1	av	145	TYR	O-C-N	-6.54	113.29	122.06
1	aF	23	TRP	CA-C-N	6.54	129.43	120.46
1	aF	23	TRP	C-N-CA	6.54	129.43	120.46
1	aR	76	GLU	O-C-N	6.54	129.06	122.12
1	b7	26	VAL	N-CA-C	6.54	117.30	110.62
1	bf	140	LYS	N-CA-C	6.54	118.41	111.28
1	bp	133	TRP	CB-CG-CD2	-6.54	117.64	126.80
1	bx	212	GLU	CA-C-N	6.54	128.95	120.44
1	bx	212	GLU	C-N-CA	6.54	128.95	120.44
1	bO	102	SER	CA-C-N	6.54	129.05	120.28
1	bO	102	SER	C-N-CA	6.54	129.05	120.28
1	1f	227	LYS	O-C-N	-6.54	114.66	123.10
1	d0	120	HIS	CB-CG-CD2	-6.54	122.69	131.20
1	dq	90	PRO	CB-CA-C	6.54	122.36	111.56
1	dr	181	VAL	N-CA-C	6.54	117.30	110.62
1	dU	216	THR	CA-C-O	6.54	126.61	119.15
1	dZ	3	VAL	O-C-N	-6.54	114.34	122.52
1	ea	154	ARG	N-CA-C	6.54	118.89	109.14
1	1q	56	LEU	N-CA-C	6.54	118.07	111.07
1	er	121	ASN	CA-C-O	6.54	125.83	119.55
1	fd	5	ASN	CA-C-N	6.54	131.89	122.40
1	fd	5	ASN	C-N-CA	6.54	131.89	122.40
1	fk	59	VAL	O-C-N	-6.54	115.13	122.66
1	fl	16	SER	O-C-N	-6.54	115.47	121.30
1	fO	53	ASN	O-C-N	-6.54	115.18	122.12
1	s	83	LEU	N-CA-CB	-6.54	100.23	110.44
1	gc	101	GLY	O-C-N	-6.54	115.91	122.19
1	gg	133	TRP	CD2-CE2-CZ2	-6.54	115.86	122.40
1	gm	132	ARG	O-C-N	-6.54	115.19	122.12
1	gw	5	ASN	CA-C-N	6.54	132.83	122.36
1	gw	5	ASN	C-N-CA	6.54	132.83	122.36
1	gM	200	THR	N-CA-CB	6.54	119.74	110.12
1	gR	75	GLU	O-C-N	6.54	128.81	122.07
1	gZ	110	THR	N-CA-CB	6.54	121.08	110.41
1	hb	195	ASN	CA-CB-CG	6.54	119.14	112.60
1	hz	143	ARG	NE-CZ-NH1	6.54	128.04	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1K	62	HIS	ND1-CE1-NE2	6.54	114.94	108.40
1	hF	42	ALA	O-C-N	6.54	129.06	122.12
1	hG	121	ASN	CA-CB-CG	6.54	119.14	112.60
1	i6	211	LEU	N-CA-C	6.54	118.41	111.28
1	im	16	SER	CA-C-N	6.54	126.13	119.19
1	im	16	SER	C-N-CA	6.54	126.13	119.19
1	is	91	ILE	N-CA-C	6.54	120.12	109.78
1	iR	18	ARG	CA-C-N	6.54	129.58	120.29
1	iR	18	ARG	C-N-CA	6.54	129.58	120.29
1	j2	212	GLU	CA-C-N	6.54	129.05	120.28
1	j2	212	GLU	C-N-CA	6.54	129.05	120.28
1	jf	5	ASN	OD1-CG-ND2	6.54	129.14	122.60
1	jD	65	ALA	N-CA-C	6.54	119.23	111.71
1	jQ	45	GLU	N-CA-C	6.54	118.07	111.07
1	kQ	203	LYS	CA-C-O	6.54	127.49	120.55
1	kX	25	LYS	O-C-N	-6.54	115.19	122.12
1	l3	55	MET	N-CA-C	6.54	118.07	111.07
1	lb	199	LYS	O-C-N	-6.54	115.19	122.12
1	lc	188	THR	CA-C-N	6.54	129.05	120.28
1	lc	188	THR	C-N-CA	6.54	129.05	120.28
1	lA	167	ARG	O-C-N	-6.54	115.28	122.09
1	2j	90	PRO	CB-CA-C	-6.54	103.02	111.46
1	2s	33	SER	CA-C-N	6.54	127.06	119.47
1	2s	33	SER	C-N-CA	6.54	127.06	119.47
1	2v	84	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
1	2C	75	GLU	O-C-N	-6.54	115.28	122.09
1	2E	67	GLN	N-CA-C	-6.54	104.23	111.36
1	2H	124	ILE	CB-CA-C	6.54	117.30	111.08
1	37	149	SER	CA-CB-OG	6.54	124.19	111.10
1	3n	73	ILE	CA-C-O	-6.54	114.25	121.05
1	3y	99	PRO	CB-CA-C	-6.54	102.51	111.21
1	3X	64	ALA	N-CA-C	-6.54	104.23	111.36
1	44	55	MET	CA-C-N	6.54	129.37	120.54
1	44	55	MET	C-N-CA	6.54	129.37	120.54
1	4j	190	LEU	CA-C-N	6.54	130.10	120.74
1	4j	190	LEU	C-N-CA	6.54	130.10	120.74
1	4n	24	VAL	O-C-N	-6.54	115.50	121.91
1	4t	115	ILE	CA-C-O	6.54	127.39	119.54
1	4R	36	VAL	CA-C-N	6.54	124.36	120.24
1	4R	36	VAL	C-N-CA	6.54	124.36	120.24
1	4R	212	GLU	CB-CA-C	6.54	121.28	110.81
1	58	25	LYS	CA-C-O	6.54	127.50	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5v	90	PRO	N-CA-CB	-6.54	96.38	103.25
1	5V	175	GLU	N-CA-CB	6.54	120.22	109.88
1	5Z	121	ASN	O-C-N	-6.54	115.57	121.39
1	69	181	VAL	N-CA-CB	6.54	118.21	110.55
1	6h	84	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
1	6p	19	THR	CA-CB-CG2	6.54	121.62	110.50
1	6u	131	LYS	N-CA-C	6.54	118.41	111.28
1	6D	180	GLU	N-CA-C	6.54	119.23	111.71
1	6K	79	GLU	O-C-N	-6.54	115.02	122.09
1	6Q	177	ALA	N-CA-C	6.54	124.74	110.80
1	6T	178	SER	N-CA-C	6.54	118.75	110.24
1	72	132	ARG	CA-C-N	6.54	129.35	120.38
1	72	132	ARG	C-N-CA	6.54	129.35	120.38
1	72	200	THR	N-CA-C	6.54	118.41	111.28
1	7f	117	TRP	CB-CG-CD2	-6.54	117.64	126.80
1	7J	112	GLN	CA-C-O	-6.54	113.61	120.55
1	86	6	LEU	O-C-N	-6.54	114.97	123.02
1	8j	115	ILE	N-CA-C	-6.54	103.95	110.62
1	8l	201	ILE	CA-C-N	6.54	129.05	120.28
1	8l	201	ILE	C-N-CA	6.54	129.05	120.28
1	9f	21	ASN	CA-CB-CG	-6.54	106.06	112.60
1	9k	92	GLU	CA-C-N	6.54	128.02	119.84
1	9k	92	GLU	C-N-CA	6.54	128.02	119.84
1	9m	147	PRO	N-CA-C	6.54	121.49	111.15
1	9p	174	ALA	CA-C-O	-6.54	113.48	120.42
1	9q	74	ASN	N-CA-C	6.54	118.41	111.28
1	9t	56	LEU	O-C-N	-6.54	115.18	122.12
1	9v	188	THR	CA-C-N	6.54	128.95	120.44
1	9v	188	THR	C-N-CA	6.54	128.95	120.44
1	Y	154	ARG	NH1-CZ-NH2	-6.54	110.79	119.30
1	a6	135	ILE	O-C-N	-6.54	115.09	121.83
1	ai	45	GLU	CA-C-O	6.54	128.38	120.92
1	at	40	PHE	CA-C-N	6.54	129.05	120.28
1	at	40	PHE	C-N-CA	6.54	129.05	120.28
1	12	124	ILE	CA-C-O	-6.54	114.94	119.19
1	aL	219	GLN	CA-C-O	6.54	127.51	120.38
1	b0	161	PHE	N-CA-C	6.54	118.96	111.11
1	bK	207	PRO	N-CA-C	6.54	122.05	114.20
1	1a	188	THR	CA-C-O	6.54	126.60	119.40
1	bS	92	GLU	N-CA-C	6.54	118.94	109.84
1	cc	170	LYS	N-CA-CB	-6.54	100.48	110.16
1	cr	79	GLU	N-CA-C	6.54	118.41	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1f	79	GLU	N-CA-C	-6.54	104.07	111.14
1	1g	184	TRP	CA-C-N	6.54	129.34	120.38
1	1g	184	TRP	C-N-CA	6.54	129.34	120.38
1	d7	57	ASN	CA-CB-CG	6.54	119.14	112.60
1	d8	117	TRP	N-CA-C	6.54	118.41	111.28
1	de	26	VAL	CA-C-O	6.54	128.31	121.05
1	di	167	ARG	CA-C-N	6.54	128.95	120.44
1	di	167	ARG	C-N-CA	6.54	128.95	120.44
1	du	10	MET	N-CA-C	6.54	119.00	110.43
1	dA	42	ALA	O-C-N	6.54	128.81	122.07
1	dP	84	HIS	ND1-CG-CD2	-6.54	99.56	106.10
1	e3	101	GLY	CA-C-O	6.54	127.49	120.75
1	er	3	VAL	N-CA-C	6.54	117.26	107.51
1	eu	13	GLN	OE1-CD-NE2	-6.54	116.06	122.60
1	fb	135	ILE	N-CA-C	6.54	117.23	110.36
1	fe	117	TRP	CB-CG-CD1	-6.54	117.08	126.90
1	fm	135	ILE	N-CA-C	6.54	117.29	110.62
1	fA	199	LYS	O-C-N	-6.54	114.69	122.15
1	fJ	119	THR	CA-C-N	6.54	130.44	120.82
1	fJ	119	THR	C-N-CA	6.54	130.44	120.82
1	fW	12	HIS	CA-CB-CG	-6.54	107.26	113.80
1	H	33	SER	O-C-N	-6.54	116.43	121.14
1	K	94	GLY	N-CA-C	6.54	124.72	115.30
1	Q	62	HIS	CB-CA-C	6.54	120.63	111.86
1	ge	206	GLY	CA-C-N	6.54	126.23	119.56
1	ge	206	GLY	C-N-CA	6.54	126.23	119.56
1	ge	214	MET	CA-C-O	6.54	127.48	120.55
1	gq	163	ASP	N-CA-CB	-6.54	100.48	110.16
1	gs	156	GLY	CA-C-N	6.54	126.78	119.32
1	gs	156	GLY	C-N-CA	6.54	126.78	119.32
1	gD	210	THR	CA-C-O	-6.54	114.43	121.56
1	gL	23	TRP	N-CA-C	6.54	118.41	111.28
1	gQ	159	GLU	O-C-N	-6.54	116.02	121.38
1	gV	98	GLU	CA-C-O	-6.54	113.94	119.76
1	hd	150	ILE	O-C-N	-6.54	115.80	122.14
1	hm	205	LEU	N-CA-C	6.54	119.41	111.82
1	hp	173	ARG	O-C-N	-6.54	113.43	122.46
1	ht	163	ASP	CA-C-N	6.54	129.34	120.38
1	ht	163	ASP	C-N-CA	6.54	129.34	120.38
1	hD	52	LEU	N-CA-C	6.54	118.49	111.36
1	hE	178	SER	N-CA-C	6.54	119.00	110.43
1	1M	204	ALA	CB-CA-C	-6.54	99.93	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	173	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	i4	189	LEU	N-CA-C	6.54	118.49	111.36
1	i5	20	LEU	N-CA-C	6.54	118.20	111.14
1	i9	78	ALA	CA-C-O	6.54	127.49	119.97
1	iv	200	THR	N-CA-CB	6.54	119.87	110.06
1	iN	80	TRP	CB-CG-CD1	-6.54	117.09	126.90
1	j0	175	GLU	N-CA-C	6.54	120.70	110.17
1	1T	133	TRP	CA-C-N	6.54	128.80	120.56
1	1T	133	TRP	C-N-CA	6.54	128.80	120.56
1	j7	184	TRP	N-CA-CB	6.54	119.74	110.12
1	1U	21	ASN	N-CA-C	6.54	118.07	111.07
1	1U	87	HIS	ND1-CE1-NE2	6.54	114.94	108.40
1	jy	192	GLN	CA-C-O	6.54	127.35	120.42
1	jT	170	LYS	CA-C-O	6.54	127.48	120.55
1	k2	39	MET	CA-C-N	6.54	129.04	120.28
1	k2	39	MET	C-N-CA	6.54	129.04	120.28
1	kb	209	ALA	N-CA-C	6.54	119.25	110.35
1	kk	121	ASN	OD1-CG-ND2	6.54	129.14	122.60
1	kp	87	HIS	CA-C-N	6.54	134.03	121.54
1	kp	87	HIS	C-N-CA	6.54	134.03	121.54
1	kt	139	ASN	CA-C-O	-6.54	113.90	120.90
1	kv	136	LEU	N-CA-C	6.54	118.41	111.28
1	lb	75	GLU	CA-C-N	6.54	129.05	120.28
1	lb	75	GLU	C-N-CA	6.54	129.05	120.28
1	lc	167	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	28	190	LEU	N-CA-C	6.54	118.07	111.07
1	ly	18	ARG	NE-CZ-NH2	-6.54	113.31	119.20
1	lz	82	ARG	CA-C-N	6.54	129.28	120.65
1	lz	82	ARG	C-N-CA	6.54	129.28	120.65
1	lO	48	THR	CA-C-O	-6.54	113.28	120.87
1	2n	15	ILE	CA-C-O	6.54	128.56	121.36
1	2n	169	TYR	CB-CG-CD2	-6.54	110.99	120.80
1	2z	136	LEU	CA-C-O	6.54	127.69	120.82
1	2E	187	GLU	N-CA-C	6.54	118.41	111.28
1	2G	69	LEU	CA-C-N	6.54	129.04	120.28
1	2G	69	LEU	C-N-CA	6.54	129.04	120.28
1	2J	87	HIS	CA-CB-CG	6.54	120.34	113.80
1	2P	229	ARG	CA-C-N	6.54	128.80	120.56
1	2P	229	ARG	C-N-CA	6.54	128.80	120.56
1	2U	132	ARG	NH1-CZ-NH2	-6.54	110.80	119.30
1	39	70	LYS	N-CA-C	6.54	118.41	111.28
1	3i	166	ASP	N-CA-C	6.54	118.07	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	182	LYS	N-CA-C	6.54	118.49	111.36
1	3R	134	ILE	CA-C-O	6.54	127.31	120.25
1	3U	103	ASP	CA-C-O	-6.54	112.07	119.79
1	43	45	GLU	N-CA-C	6.54	119.25	111.33
1	4p	6	LEU	CA-C-N	6.54	128.94	120.44
1	4p	6	LEU	C-N-CA	6.54	128.94	120.44
1	4D	161	PHE	CA-CB-CG	6.54	120.34	113.80
1	5d	3	VAL	O-C-N	-6.54	115.77	123.03
1	5s	84	HIS	CA-C-N	6.54	128.02	119.84
1	5s	84	HIS	C-N-CA	6.54	128.02	119.84
1	5t	47	ALA	N-CA-C	6.54	120.16	109.76
1	5J	63	GLN	N-CA-C	6.54	118.49	111.36
1	5P	210	THR	CA-C-N	6.54	129.04	120.28
1	5P	210	THR	C-N-CA	6.54	129.04	120.28
1	5T	211	LEU	N-CA-C	6.54	118.49	111.36
1	64	85	PRO	CA-C-N	6.54	129.26	120.50
1	64	85	PRO	C-N-CA	6.54	129.26	120.50
1	66	68	MET	CA-C-N	6.54	129.88	120.79
1	66	68	MET	C-N-CA	6.54	129.88	120.79
1	6b	102	SER	N-CA-C	6.54	118.96	111.11
1	6P	176	GLN	N-CA-C	6.54	118.75	110.24
1	7P	2	ILE	N-CA-CB	6.54	119.70	111.46
1	8j	53	ASN	CA-CB-CG	-6.54	106.06	112.60
1	8w	20	LEU	CA-C-N	6.54	129.28	120.65
1	8w	20	LEU	C-N-CA	6.54	129.28	120.65
1	8P	167	ARG	NH1-CZ-NH2	-6.54	110.80	119.30
1	91	88	ALA	O-C-N	-6.54	115.27	123.12
1	9e	120	HIS	N-CA-CB	-6.54	100.75	110.17
1	9f	22	ALA	O-C-N	-6.54	115.19	122.12
1	9n	142	VAL	O-C-N	-6.54	115.52	121.87
1	9F	13	GLN	CB-CG-CD	6.54	123.72	112.60
1	9O	56	LEU	O-C-N	-6.54	115.33	122.07
1	9X	136	LEU	CA-C-O	6.54	127.48	120.55
1	a5	86	VAL	N-CA-CB	6.54	120.33	110.13
1	a5	147	PRO	N-CA-CB	6.54	110.12	103.25
1	aK	159	GLU	CA-C-N	6.54	126.92	119.92
1	aK	159	GLU	C-N-CA	6.54	126.92	119.92
1	aO	18	ARG	NE-CZ-NH2	-6.54	113.31	119.20
1	aO	168	PHE	CB-CA-C	6.54	121.03	110.96
1	aW	98	GLU	O-C-N	6.54	127.37	121.35
1	b9	42	ALA	N-CA-C	6.54	119.23	111.71
1	bh	51	ASP	CA-CB-CG	-6.54	106.06	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bR	193	ASN	CA-CB-CG	6.54	119.14	112.60
1	bU	110	THR	O-C-N	-6.54	114.67	122.65
1	bW	198	CYS	CA-C-O	6.54	127.35	120.42
1	bZ	141	ILE	N-CA-C	6.54	117.23	110.36
1	c1	215	MET	N-CA-C	6.54	120.36	112.38
1	c3	195	ASN	CA-C-O	-6.54	113.60	119.75
1	ck	199	LYS	N-CA-C	6.54	119.23	111.71
1	cy	55	MET	O-C-N	-6.54	115.33	122.07
1	cO	217	ALA	CA-C-N	6.54	131.43	122.34
1	cO	217	ALA	C-N-CA	6.54	131.43	122.34
1	db	137	GLY	N-CA-C	6.54	120.56	112.64
1	dc	196	PRO	CA-C-N	6.54	129.05	120.28
1	dc	196	PRO	C-N-CA	6.54	129.05	120.28
1	dH	167	ARG	CA-C-N	6.54	128.94	120.44
1	dH	167	ARG	C-N-CA	6.54	128.94	120.44
1	dT	55	MET	N-CA-C	6.54	118.49	111.36
1	e7	50	GLN	N-CA-CB	6.54	119.69	109.94
1	eC	223	GLY	O-C-N	-6.54	115.23	121.77
1	eQ	73	ILE	O-C-N	-6.54	115.53	121.87
1	f4	140	LYS	N-CA-C	6.54	118.41	111.28
1	fn	74	ASN	CA-C-O	-6.54	112.45	119.97
1	fq	96	MET	CB-CA-C	-6.54	98.86	109.72
1	1x	229	ARG	NE-CZ-NH2	-6.54	113.31	119.20
1	fv	121	ASN	OD1-CG-ND2	-6.54	116.06	122.60
1	fw	78	ALA	CA-C-N	6.54	128.94	120.44
1	fw	78	ALA	C-N-CA	6.54	128.94	120.44
1	1y	84	HIS	CE1-NE2-CD2	-6.54	102.46	109.00
1	fI	156	GLY	O-C-N	-6.54	115.23	121.77
1	fQ	170	LYS	CA-C-O	6.54	127.35	120.42
1	fY	40	PHE	CA-CB-CG	-6.54	107.26	113.80
1	g2	111	LEU	N-CA-C	6.54	119.25	111.33
1	k	201	ILE	N-CA-C	-6.54	104.14	110.42
1	w	37	ILE	N-CA-CB	6.54	115.55	110.45
1	4	218	CYS	N-CA-CB	6.54	119.73	110.12
1	6	181	VAL	CA-C-N	6.54	129.37	120.54
1	6	181	VAL	C-N-CA	6.54	129.37	120.54
1	gb	59	VAL	CB-CA-C	-6.54	102.94	111.25
1	gE	36	VAL	CA-C-N	6.54	126.71	120.43
1	gE	36	VAL	C-N-CA	6.54	126.71	120.43
1	gG	19	THR	CA-CB-OG1	-6.54	99.79	109.60
1	hh	200	THR	O-C-N	-6.54	115.33	122.07
1	hp	35	GLU	N-CA-C	-6.54	105.27	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hq	114	GLN	CA-C-N	6.54	129.04	120.60
1	hq	114	GLN	C-N-CA	6.54	129.04	120.60
1	hD	184	TRP	CA-C-O	-6.54	113.49	120.42
1	hT	104	ILE	CA-CB-CG1	6.54	121.52	110.40
1	j9	53	ASN	CA-CB-CG	-6.54	106.06	112.60
1	jE	134	ILE	N-CA-CB	6.54	119.43	110.54
1	jK	114	GLN	N-CA-C	6.54	118.41	111.28
1	kA	100	ARG	NE-CZ-NH2	-6.54	113.31	119.20
1	kM	37	ILE	CA-C-O	-6.54	114.31	118.69
1	l3	130	TYR	CA-C-N	6.54	128.94	120.44
1	l3	130	TYR	C-N-CA	6.54	128.94	120.44
1	3p	202	LEU	N-CA-CB	6.54	119.84	110.16
1	4c	16	SER	N-CA-CB	6.54	119.12	110.29
1	4N	30	LYS	N-CA-CB	6.54	120.28	110.53
1	5r	63	GLN	N-CA-C	6.54	118.07	111.07
1	5H	68	MET	CA-C-N	6.54	129.04	120.28
1	5H	68	MET	C-N-CA	6.54	129.04	120.28
1	78	23	TRP	O-C-N	-6.54	115.29	122.09
1	7y	189	LEU	N-CA-C	6.54	118.41	111.28
1	8a	94	GLY	CA-C-O	6.54	126.28	119.02
1	9d	59	VAL	N-CA-CB	6.54	118.46	111.00
1	9l	214	MET	CA-C-O	6.54	127.69	120.63
1	9K	216	THR	CA-CB-OG1	6.54	119.41	109.60
1	aH	68	MET	N-CA-C	6.54	118.96	111.11
1	15	151	LEU	O-C-N	-6.54	113.44	122.46
1	17	154	ARG	N-CA-CB	6.54	121.57	110.71
1	bE	203	LYS	N-CA-C	6.54	119.23	111.71
1	cO	200	THR	CA-C-N	6.54	128.80	120.56
1	cO	200	THR	C-N-CA	6.54	128.80	120.56
1	1i	167	ARG	N-CA-C	6.54	118.96	111.11
1	dT	202	LEU	CA-C-O	6.54	127.48	120.55
1	ec	112	GLN	N-CA-C	6.54	118.41	111.28
1	ev	165	VAL	O-C-N	-6.54	115.26	121.87
1	eE	103	ASP	N-CA-C	6.54	118.49	111.36
1	fK	44	SER	N-CA-CB	6.54	120.17	110.49
1	fT	160	PRO	CA-C-N	6.54	129.04	120.28
1	fT	160	PRO	C-N-CA	6.54	129.04	120.28
1	q	46	GLY	N-CA-C	6.54	123.98	114.10
1	O	91	ILE	CA-C-O	6.54	127.85	121.05
1	gh	24	VAL	CA-CB-CG2	-6.54	99.28	110.40
1	gl	204	ALA	N-CA-C	6.54	118.41	111.28
1	go	41	SER	CA-C-N	6.54	129.34	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	41	SER	C-N-CA	6.54	129.34	120.38
1	ht	145	TYR	CA-C-O	6.54	127.00	119.35
1	1N	125	PRO	CA-C-N	6.54	129.42	120.46
1	1N	125	PRO	C-N-CA	6.54	129.42	120.46
1	im	131	LYS	CB-CA-C	6.54	121.64	110.79
1	1T	56	LEU	CA-C-O	6.54	127.69	120.63
1	jm	17	PRO	CA-C-N	6.54	129.34	120.38
1	jm	17	PRO	C-N-CA	6.54	129.34	120.38
1	k8	161	PHE	CA-C-N	6.54	129.37	120.54
1	k8	161	PHE	C-N-CA	6.54	129.37	120.54
1	kp	101	GLY	O-C-N	-6.54	115.15	122.28
1	kx	74	ASN	CA-CB-CG	-6.54	106.06	112.60
1	l6	134	ILE	N-CA-C	6.54	116.70	110.42
1	lm	115	ILE	CA-C-N	6.54	127.24	119.98
1	lm	115	ILE	C-N-CA	6.54	127.24	119.98
1	lC	147	PRO	N-CA-CB	-6.54	96.38	103.25
1	lC	211	LEU	CB-CA-C	6.54	121.14	110.88
1	lF	167	ARG	CA-C-N	6.54	129.04	120.28
1	lF	167	ARG	C-N-CA	6.54	129.04	120.28
1	3E	80	TRP	N-CA-C	6.54	118.07	111.07
1	3Q	14	ALA	CA-C-N	6.54	129.51	120.49
1	3Q	14	ALA	C-N-CA	6.54	129.51	120.49
1	4r	91	ILE	CA-C-N	6.54	129.54	120.65
1	4r	91	ILE	C-N-CA	6.54	129.54	120.65
1	4v	181	VAL	CA-C-O	6.54	127.78	120.85
1	4v	199	LYS	CA-C-O	-6.54	113.62	120.55
1	4F	97	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	4G	39	MET	N-CA-C	-6.54	104.08	111.14
1	4K	205	LEU	CA-C-O	6.54	127.63	119.59
1	4O	210	THR	CA-C-N	6.54	129.04	120.28
1	4O	210	THR	C-N-CA	6.54	129.04	120.28
1	4S	26	VAL	CB-CA-C	-6.54	103.20	112.22
1	5q	49	PRO	CA-C-N	6.54	129.34	120.38
1	5q	49	PRO	C-N-CA	6.54	129.34	120.38
1	5u	33	SER	N-CA-C	-6.54	102.33	108.22
1	5y	62	HIS	CA-CB-CG	-6.54	107.26	113.80
1	5C	47	ALA	CA-C-O	6.54	127.34	120.54
1	5G	84	HIS	CG-CD2-NE2	6.54	113.74	107.20
1	5Q	120	HIS	O-C-N	-6.54	115.27	123.12
1	6a	137	GLY	CA-C-N	6.54	130.25	120.31
1	6a	137	GLY	C-N-CA	6.54	130.25	120.31
1	6g	39	MET	CA-C-N	6.54	128.94	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	39	MET	C-N-CA	6.54	128.94	120.44
1	6n	128	GLU	N-CA-C	6.54	118.07	111.07
1	6r	113	GLU	N-CA-C	6.54	118.41	111.28
1	6x	224	PRO	CB-CA-C	6.54	119.60	111.23
1	6F	47	ALA	CA-C-N	6.54	130.60	120.60
1	6F	47	ALA	C-N-CA	6.54	130.60	120.60
1	6M	180	GLU	N-CA-C	6.54	118.41	111.28
1	7r	118	MET	CA-C-O	6.54	127.48	120.55
1	7u	104	ILE	O-C-N	-6.54	115.48	121.89
1	7Q	187	GLU	N-CA-C	6.54	118.49	111.36
1	85	193	ASN	OD1-CG-ND2	-6.54	116.06	122.60
1	88	226	HIS	CA-CB-CG	6.54	120.34	113.80
1	8t	221	VAL	N-CA-C	6.54	119.05	109.63
1	8z	11	VAL	CA-C-N	6.54	130.00	120.71
1	8z	11	VAL	C-N-CA	6.54	130.00	120.71
1	8F	217	ALA	O-C-N	-6.54	114.65	123.15
1	93	228	ALA	N-CA-C	6.54	119.85	110.24
1	94	188	THR	CA-C-N	6.54	129.34	120.38
1	94	188	THR	C-N-CA	6.54	129.34	120.38
1	99	51	ASP	CA-C-O	6.54	127.69	120.82
1	9f	58	THR	CA-C-O	6.54	127.48	119.11
1	9M	125	PRO	CA-C-N	6.54	129.03	120.60
1	9M	125	PRO	C-N-CA	6.54	129.03	120.60
1	a5	130	TYR	CA-C-N	6.54	128.94	120.44
1	a5	130	TYR	C-N-CA	6.54	128.94	120.44
1	al	79	GLU	CA-C-N	6.54	129.04	120.28
1	al	79	GLU	C-N-CA	6.54	129.04	120.28
1	aT	192	GLN	N-CA-C	6.54	118.41	111.28
1	aV	103	ASP	CA-C-O	6.54	127.48	120.55
1	aY	89	GLY	CA-C-N	6.54	128.01	119.84
1	aY	89	GLY	C-N-CA	6.54	128.01	119.84
1	bn	67	GLN	CA-C-N	6.54	129.04	120.28
1	bn	67	GLN	C-N-CA	6.54	129.04	120.28
1	br	217	ALA	CA-C-O	-6.54	113.69	121.60
1	18	114	GLN	CA-C-N	6.54	128.80	120.56
1	18	114	GLN	C-N-CA	6.54	128.80	120.56
1	bu	176	GLN	OE1-CD-NE2	-6.54	116.06	122.60
1	bP	72	THR	CA-C-O	6.54	127.35	120.42
1	c0	138	LEU	N-CA-C	6.54	118.41	111.28
1	c3	194	ALA	N-CA-CB	6.54	119.65	110.04
1	co	125	PRO	N-CA-CB	-6.54	97.26	102.36
1	cM	214	MET	O-C-N	-6.54	114.70	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	25	LYS	CA-C-O	6.54	127.35	120.42
1	d2	76	GLU	N-CA-C	6.54	118.41	111.28
1	d7	61	GLY	CA-C-N	6.54	131.43	122.34
1	d7	61	GLY	C-N-CA	6.54	131.43	122.34
1	dB	83	LEU	CA-C-N	6.54	130.04	122.85
1	dB	83	LEU	C-N-CA	6.54	130.04	122.85
1	dG	134	ILE	N-CA-C	6.54	117.23	110.36
1	dH	20	LEU	N-CA-C	6.54	118.41	111.28
1	e8	41	SER	CA-C-N	6.54	129.04	120.28
1	e8	41	SER	C-N-CA	6.54	129.04	120.28
1	ed	200	THR	N-CA-C	6.54	118.41	111.28
1	en	36	VAL	N-CA-C	6.54	119.22	111.05
1	er	21	ASN	CA-CB-CG	6.54	119.14	112.60
1	ev	173	ARG	CA-C-N	6.54	129.37	120.54
1	ev	173	ARG	C-N-CA	6.54	129.37	120.54
1	eH	193	ASN	CA-CB-CG	-6.54	106.06	112.60
1	eK	185	MET	CG-SD-CE	-6.54	86.51	100.90
1	eU	214	MET	CA-C-O	6.54	127.49	119.97
1	fa	84	HIS	CA-C-O	6.54	126.50	120.09
1	fb	192	GLN	N-CA-C	6.54	119.24	111.33
1	fq	96	MET	N-CA-C	6.54	119.71	110.23
1	fs	120	HIS	CA-CB-CG	6.54	120.34	113.80
1	fv	143	ARG	NH1-CZ-NH2	-6.54	110.80	119.30
1	fE	111	LEU	CA-C-N	6.54	129.04	120.28
1	fE	111	LEU	C-N-CA	6.54	129.04	120.28
1	fP	26	VAL	N-CA-C	6.54	116.70	110.42
1	g7	134	ILE	CB-CA-C	6.54	120.34	111.97
1	g7	216	THR	CA-C-N	6.54	132.02	123.00
1	g7	216	THR	C-N-CA	6.54	132.02	123.00
1	n	168	PHE	CA-CB-CG	6.54	120.34	113.80
1	A	10	MET	CG-SD-CE	-6.54	86.51	100.90
1	gb	200	THR	CA-C-N	6.54	128.80	120.56
1	gb	200	THR	C-N-CA	6.54	128.80	120.56
1	h2	131	LYS	N-CA-C	6.54	118.41	111.28
1	hm	182	LYS	N-CA-C	6.54	118.06	111.07
1	hP	132	ARG	NE-CZ-NH1	6.54	128.04	121.50
1	iV	25	LYS	CA-C-N	6.54	129.33	120.77
1	iV	25	LYS	C-N-CA	6.54	129.33	120.77
1	j0	159	GLU	N-CA-C	6.54	118.93	109.84
1	js	202	LEU	N-CA-CB	6.54	119.86	110.06
1	jQ	165	VAL	CB-CA-C	6.54	120.34	111.97
1	kj	172	LEU	O-C-N	-6.54	115.19	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	171	THR	O-C-N	-6.54	114.70	122.15
1	ld	97	ARG	NE-CZ-NH2	-6.54	113.32	119.20
1	ls	50	GLN	O-C-N	-6.54	115.29	122.09
1	lI	41	SER	CA-C-O	6.54	127.48	120.55
1	2q	201	ILE	N-CA-C	6.54	117.29	110.62
1	35	161	PHE	CA-C-N	6.54	129.88	120.79
1	35	161	PHE	C-N-CA	6.54	129.88	120.79
1	3m	171	THR	CA-C-N	6.54	129.57	120.29
1	3m	171	THR	C-N-CA	6.54	129.57	120.29
1	3s	22	ALA	CA-C-N	6.54	129.57	120.29
1	3s	22	ALA	C-N-CA	6.54	129.57	120.29
1	5U	223	GLY	CA-C-N	6.54	127.52	120.13
1	5U	223	GLY	C-N-CA	6.54	127.52	120.13
1	75	18	ARG	CA-C-N	6.54	129.04	120.28
1	75	18	ARG	C-N-CA	6.54	129.04	120.28
1	7K	122	PRO	CA-C-N	6.54	126.57	119.90
1	7K	122	PRO	C-N-CA	6.54	126.57	119.90
1	8p	120	HIS	CA-CB-CG	6.54	120.34	113.80
1	8B	16	SER	N-CA-C	6.54	117.12	109.60
1	ae	139	ASN	CA-CB-CG	6.54	119.14	112.60
1	aj	183	ASN	CA-CB-CG	6.54	119.14	112.60
1	15	16	SER	CA-C-O	-6.54	113.37	120.17
1	15	137	GLY	CA-C-N	6.54	129.04	120.28
1	15	137	GLY	C-N-CA	6.54	129.04	120.28
1	bc	195	ASN	O-C-N	-6.54	114.57	121.30
1	bE	134	ILE	N-CA-C	6.54	116.70	110.42
1	cd	13	GLN	CA-C-N	6.54	131.20	120.94
1	cd	13	GLN	C-N-CA	6.54	131.20	120.94
1	dl	203	LYS	CA-C-N	6.54	129.04	120.28
1	dl	203	LYS	C-N-CA	6.54	129.04	120.28
1	dO	119	THR	CA-C-N	6.54	131.20	120.94
1	dO	119	THR	C-N-CA	6.54	131.20	120.94
1	1n	179	GLN	CB-CG-CD	-6.54	101.49	112.60
1	ek	139	ASN	CA-CB-CG	-6.54	106.06	112.60
1	eM	62	HIS	O-C-N	-6.54	115.13	122.91
1	f8	108	THR	N-CA-C	-6.54	105.03	114.12
1	fB	165	VAL	N-CA-CB	6.54	117.77	110.51
1	fL	132	ARG	NE-CZ-NH2	-6.54	113.32	119.20
1	gk	166	ASP	CB-CA-C	6.54	121.14	110.88
1	gr	197	ASP	CA-C-N	6.54	129.04	120.28
1	gr	197	ASP	C-N-CA	6.54	129.04	120.28
1	1I	175	GLU	N-CA-CB	-6.54	100.91	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hg	92	GLU	CA-C-N	6.54	128.01	119.84
1	hg	92	GLU	C-N-CA	6.54	128.01	119.84
1	hl	126	VAL	N-CA-C	6.54	117.29	110.62
1	hr	127	GLY	O-C-N	-6.54	115.16	122.28
1	hs	170	LYS	CA-C-N	6.54	129.36	120.54
1	hs	170	LYS	C-N-CA	6.54	129.36	120.54
1	hH	125	PRO	N-CA-CB	-6.54	96.39	103.25
1	hO	195	ASN	CA-CB-CG	6.54	119.14	112.60
1	hW	214	MET	N-CA-C	6.54	118.40	111.28
1	1N	175	GLU	N-CA-C	6.54	119.70	109.96
1	ig	110	THR	CA-CB-OG1	6.54	119.40	109.60
1	1R	12	HIS	CE1-NE2-CD2	-6.54	102.47	109.00
1	iV	200	THR	N-CA-C	6.54	118.40	111.28
1	iZ	90	PRO	CA-C-N	6.54	129.43	122.11
1	iZ	90	PRO	C-N-CA	6.54	129.43	122.11
1	js	2	ILE	CA-C-N	6.54	132.03	122.94
1	js	2	ILE	C-N-CA	6.54	132.03	122.94
1	js	98	GLU	N-CA-C	6.54	117.94	109.64
1	jv	111	LEU	CA-C-N	6.54	129.57	120.29
1	jv	111	LEU	C-N-CA	6.54	129.57	120.29
1	1W	74	ASN	CA-CB-CG	-6.54	106.06	112.60
1	jM	4	GLN	CB-CG-CD	-6.54	101.49	112.60
1	k5	158	LYS	N-CA-CB	6.54	120.48	110.61
1	kr	216	THR	N-CA-CB	6.54	119.83	110.16
1	kS	101	GLY	CA-C-N	6.54	129.04	120.28
1	kS	101	GLY	C-N-CA	6.54	129.04	120.28
1	kT	115	ILE	CA-C-N	6.54	127.38	119.99
1	kT	115	ILE	C-N-CA	6.54	127.38	119.99
1	kV	120	HIS	O-C-N	-6.54	115.40	122.85
1	l7	29	GLU	CA-C-O	6.54	127.68	120.82
1	le	187	GLU	N-CA-C	6.54	120.47	112.23
1	ln	89	GLY	CA-C-N	6.54	126.56	119.89
1	ln	89	GLY	C-N-CA	6.54	126.56	119.89
1	lD	31	ALA	N-CA-C	6.54	120.12	111.75
1	lF	67	GLN	OE1-CD-NE2	-6.54	116.06	122.60
1	2c	10	MET	O-C-N	-6.54	115.19	122.12
1	2w	71	GLU	CA-C-N	6.54	129.04	120.28
1	2w	71	GLU	C-N-CA	6.54	129.04	120.28
1	2Y	133	TRP	O-C-N	-6.54	115.19	122.12
1	33	85	PRO	N-CA-C	6.54	125.93	112.47
1	3A	54	THR	CA-C-N	6.54	129.36	120.54
1	3A	54	THR	C-N-CA	6.54	129.36	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3K	144	MET	N-CA-C	6.54	118.48	111.36
1	44	133	TRP	CA-C-O	6.54	127.48	120.55
1	4d	120	HIS	N-CA-C	6.54	118.76	110.33
1	4t	25	LYS	O-C-N	-6.54	113.57	122.33
1	5A	179	GLN	N-CA-C	6.54	118.41	111.28
1	6s	214	MET	N-CA-C	6.54	118.95	111.11
1	6T	191	VAL	CA-C-N	6.54	129.88	120.79
1	6T	191	VAL	C-N-CA	6.54	129.88	120.79
1	6U	214	MET	N-CA-C	6.54	119.24	111.33
1	79	202	LEU	N-CA-C	6.54	118.40	111.28
1	7c	78	ALA	CA-C-N	6.54	128.94	120.44
1	7c	78	ALA	C-N-CA	6.54	128.94	120.44
1	7o	134	ILE	CB-CA-C	6.54	119.98	111.81
1	7s	170	LYS	CA-C-O	6.54	127.48	120.55
1	7P	113	GLU	O-C-N	-6.54	115.34	122.07
1	8v	4	GLN	OE1-CD-NE2	-6.54	116.06	122.60
1	91	183	ASN	O-C-N	-6.54	115.03	122.09
1	99	84	HIS	ND1-CE1-NE2	6.54	114.94	108.40
1	9i	135	ILE	O-C-N	-6.54	115.53	121.87
1	9v	150	ILE	N-CA-C	6.54	122.93	109.34
1	9R	20	LEU	N-CA-C	6.54	120.47	112.23
1	a3	120	HIS	ND1-CE1-NE2	6.54	114.94	108.40
1	aH	210	THR	N-CA-CB	6.54	119.33	110.38
1	b3	24	VAL	CA-CB-CG1	6.54	121.51	110.40
1	b7	198	CYS	N-CA-C	-6.54	106.26	114.56
1	bd	80	TRP	CB-CG-CD1	-6.54	117.10	126.90
1	bS	139	ASN	CA-CB-CG	-6.54	106.06	112.60
1	bX	116	GLY	CA-C-O	-6.54	114.02	120.75
1	c3	13	GLN	CB-CG-CD	-6.54	101.49	112.60
1	cs	42	ALA	CA-C-N	6.54	129.69	120.28
1	cs	42	ALA	C-N-CA	6.54	129.69	120.28
1	cA	211	LEU	CA-C-N	6.54	129.04	120.28
1	cA	211	LEU	C-N-CA	6.54	129.04	120.28
1	cJ	150	ILE	CA-C-N	6.54	129.57	120.29
1	cJ	150	ILE	C-N-CA	6.54	129.57	120.29
1	dk	37	ILE	N-CA-C	6.54	120.19	112.35
1	dq	128	GLU	CA-C-N	6.54	129.70	120.42
1	dq	128	GLU	C-N-CA	6.54	129.70	120.42
1	dx	135	ILE	CA-C-N	6.54	129.04	120.28
1	dx	135	ILE	C-N-CA	6.54	129.04	120.28
1	dK	216	THR	CA-C-N	6.54	132.86	120.97
1	dK	216	THR	C-N-CA	6.54	132.86	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dX	158	LYS	CA-C-N	6.54	129.99	120.51
1	dX	158	LYS	C-N-CA	6.54	129.99	120.51
1	e1	120	HIS	CA-CB-CG	6.54	120.33	113.80
1	e3	211	LEU	O-C-N	-6.54	114.58	122.22
1	eu	180	GLU	CB-CG-CD	6.54	123.71	112.60
1	eY	103	ASP	CA-C-O	-6.54	113.97	120.70
1	fe	206	GLY	CA-C-N	6.54	128.01	119.84
1	fe	206	GLY	C-N-CA	6.54	128.01	119.84
1	fA	189	LEU	N-CA-C	6.54	118.40	111.28
1	fB	127	GLY	O-C-N	-6.54	115.91	122.18
1	fP	114	GLN	N-CA-C	6.54	119.24	111.33
1	gb	229	ARG	NH1-CZ-NH2	-6.53	110.81	119.30
1	gj	37	ILE	O-C-N	-6.53	113.65	121.10
1	gj	58	THR	N-CA-CB	6.53	119.72	110.12
1	gl	48	THR	O-C-N	-6.53	114.11	121.43
1	gu	68	MET	O-C-N	-6.53	115.19	122.12
1	hn	219	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	hB	216	THR	N-CA-C	-6.53	102.55	111.56
1	hF	191	VAL	CA-C-N	6.53	129.03	120.28
1	hF	191	VAL	C-N-CA	6.53	129.03	120.28
1	hO	191	VAL	N-CA-C	-6.53	105.37	111.45
1	hV	142	VAL	CB-CA-C	6.53	120.33	111.97
1	1P	173	ARG	O-C-N	-6.53	115.34	122.07
1	iK	110	THR	CA-CB-OG1	6.53	119.40	109.60
1	jw	226	HIS	CA-CB-CG	6.53	120.33	113.80
1	kr	148	THR	N-CA-CB	6.53	119.58	109.85
1	kt	59	VAL	CA-C-O	6.53	128.30	120.85
1	ku	141	ILE	CA-C-O	6.53	127.53	120.47
1	kY	90	PRO	N-CA-C	6.53	121.33	111.14
1	l1	202	LEU	N-CA-C	6.53	118.40	111.28
1	l9	37	ILE	O-C-N	-6.53	116.24	120.42
1	lB	221	VAL	O-C-N	-6.53	116.14	123.20
1	lH	226	HIS	ND1-CE1-NE2	6.53	114.93	108.40
1	32	195	ASN	O-C-N	-6.53	114.57	121.30
1	3c	226	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	3e	52	LEU	CA-C-N	6.53	129.33	120.38
1	3e	52	LEU	C-N-CA	6.53	129.33	120.38
1	3i	166	ASP	O-C-N	-6.53	115.34	122.07
1	3z	229	ARG	NE-CZ-NH2	-6.53	113.32	119.20
1	44	46	GLY	O-C-N	-6.53	114.86	122.31
1	4j	200	THR	CA-C-N	6.53	128.79	120.56
1	4j	200	THR	C-N-CA	6.53	128.79	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4B	9	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	4C	210	THR	N-CA-CB	6.53	120.59	110.46
1	55	136	LEU	O-C-N	-6.53	115.30	122.09
1	5h	84	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	5E	222	GLY	CA-C-N	6.53	132.13	121.87
1	5E	222	GLY	C-N-CA	6.53	132.13	121.87
1	5L	75	GLU	CA-C-N	6.53	128.93	120.44
1	5L	75	GLU	C-N-CA	6.53	128.93	120.44
1	5T	49	PRO	CB-CA-C	6.53	122.34	111.56
1	6M	53	ASN	CA-C-O	6.53	127.48	120.55
1	7b	79	GLU	CA-C-O	6.53	127.89	120.90
1	7g	57	ASN	CA-CB-CG	-6.53	106.07	112.60
1	7j	1	PRO	N-CA-CB	6.53	110.19	103.00
1	7p	141	ILE	CA-C-N	6.53	128.79	120.56
1	7p	141	ILE	C-N-CA	6.53	128.79	120.56
1	7H	132	ARG	O-C-N	-6.53	115.19	122.12
1	7N	4	GLN	CA-C-N	6.53	131.96	122.36
1	7N	4	GLN	C-N-CA	6.53	131.96	122.36
1	8j	224	PRO	CA-C-N	6.53	126.19	119.92
1	8j	224	PRO	C-N-CA	6.53	126.19	119.92
1	8L	74	ASN	OD1-CG-ND2	6.53	129.13	122.60
1	8O	159	GLU	CA-C-N	6.53	126.56	119.90
1	8O	159	GLU	C-N-CA	6.53	126.56	119.90
1	90	16	SER	CA-C-N	6.53	126.47	119.28
1	90	16	SER	C-N-CA	6.53	126.47	119.28
1	92	116	GLY	O-C-N	6.53	128.60	122.13
1	9n	207	PRO	CA-C-O	-6.53	116.48	121.31
1	9x	143	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	9C	172	LEU	CA-C-O	6.53	126.60	119.15
1	9Y	108	THR	CA-CB-OG1	6.53	119.40	109.60
1	10	80	TRP	CA-C-N	6.53	130.24	120.31
1	10	80	TRP	C-N-CA	6.53	130.24	120.31
1	ab	51	ASP	CA-C-N	6.53	129.04	120.28
1	ab	51	ASP	C-N-CA	6.53	129.04	120.28
1	aY	137	GLY	O-C-N	6.53	129.85	122.34
1	b9	56	LEU	O-C-N	-6.53	113.44	122.46
1	b9	135	ILE	CB-CA-C	6.53	120.96	112.14
1	bc	139	ASN	CB-CG-ND2	6.53	126.20	116.40
1	bW	46	GLY	CA-C-O	6.53	126.27	119.02
1	c7	195	ASN	O-C-N	-6.53	114.11	121.43
1	ci	76	GLU	CA-C-N	6.53	128.93	120.44
1	ci	76	GLU	C-N-CA	6.53	128.93	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cr	205	LEU	CA-C-O	6.53	127.34	120.42
1	cA	18	ARG	NE-CZ-NH2	-6.53	113.32	119.20
1	cP	51	ASP	O-C-N	-6.53	115.19	122.12
1	cZ	89	GLY	CA-C-O	-6.53	112.18	121.52
1	d4	12	HIS	CA-C-O	6.53	128.48	121.16
1	dk	229	ARG	CA-C-N	6.53	131.61	123.12
1	dk	229	ARG	C-N-CA	6.53	131.61	123.12
1	1k	12	HIS	CA-CB-CG	6.53	120.33	113.80
1	dq	99	PRO	CB-CA-C	6.53	119.37	111.46
1	e0	165	VAL	O-C-N	-6.53	115.10	121.83
1	eu	148	THR	N-CA-C	6.53	120.96	112.92
1	1r	146	SER	N-CA-C	6.53	118.89	109.48
1	ey	167	ARG	N-CA-C	6.53	119.23	111.33
1	eH	136	LEU	CA-C-N	6.53	128.57	120.34
1	eH	136	LEU	C-N-CA	6.53	128.57	120.34
1	fh	78	ALA	O-C-N	-6.53	114.70	122.15
1	fo	182	LYS	N-CA-C	6.53	118.40	111.28
1	fs	102	SER	CA-C-N	6.53	129.33	120.38
1	fs	102	SER	C-N-CA	6.53	129.33	120.38
1	fx	213	GLU	CA-C-N	6.53	129.33	120.38
1	fx	213	GLU	C-N-CA	6.53	129.33	120.38
1	fR	197	ASP	CA-CB-CG	6.53	119.13	112.60
1	s	155	GLN	OE1-CD-NE2	6.53	129.13	122.60
1	gh	140	LYS	CB-CA-C	-6.53	99.95	110.79
1	gK	65	ALA	CA-C-O	6.53	127.47	120.55
1	h6	12	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	hg	190	LEU	CA-C-N	6.53	129.70	120.42
1	hg	190	LEU	C-N-CA	6.53	129.70	120.42
1	i2	23	TRP	O-C-N	-6.53	115.30	122.09
1	ix	23	TRP	O-C-N	6.53	128.80	122.07
1	iX	8	GLY	CA-C-N	6.53	131.76	122.09
1	iX	8	GLY	C-N-CA	6.53	131.76	122.09
1	j5	141	ILE	CA-C-N	6.53	129.74	120.53
1	j5	141	ILE	C-N-CA	6.53	129.74	120.53
1	jK	182	LYS	N-CA-C	6.53	118.06	111.07
1	jY	20	LEU	CA-C-N	6.53	129.32	120.44
1	jY	20	LEU	C-N-CA	6.53	129.32	120.44
1	k8	131	LYS	CA-C-N	6.53	129.69	120.28
1	k8	131	LYS	C-N-CA	6.53	129.69	120.28
1	kc	181	VAL	CA-C-O	6.53	127.74	120.95
1	kn	25	LYS	CA-C-N	6.53	128.79	120.56
1	kn	25	LYS	C-N-CA	6.53	128.79	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	81	ASP	N-CA-C	6.53	119.22	111.71
1	ld	4	GLN	N-CA-CB	6.53	121.53	110.49
1	lm	111	LEU	O-C-N	-6.53	115.20	122.12
1	lq	83	LEU	N-CA-CB	6.53	120.10	110.56
1	2d	174	ALA	CA-C-N	6.53	130.61	120.75
1	2d	174	ALA	C-N-CA	6.53	130.61	120.75
1	35	36	VAL	CA-C-N	6.53	125.56	120.33
1	35	36	VAL	C-N-CA	6.53	125.56	120.33
1	3U	12	HIS	CA-CB-CG	6.53	120.33	113.80
1	4b	155	GLN	N-CA-C	6.53	119.76	109.96
1	4n	78	ALA	N-CA-C	6.53	118.06	111.07
1	4r	181	VAL	O-C-N	-6.53	115.11	121.90
1	4A	188	THR	CA-C-N	6.53	130.62	120.82
1	4A	188	THR	C-N-CA	6.53	130.62	120.82
1	5L	33	SER	CA-C-N	6.53	128.00	119.84
1	5L	33	SER	C-N-CA	6.53	128.00	119.84
1	6X	81	ASP	O-C-N	-6.53	115.20	122.12
1	76	119	THR	N-CA-C	6.53	121.25	113.28
1	7c	59	VAL	CB-CA-C	6.53	120.45	111.31
1	7y	146	SER	N-CA-C	6.53	118.89	109.48
1	7B	12	HIS	CA-CB-CG	6.53	120.33	113.80
1	9m	14	ALA	CA-C-O	6.53	128.98	121.47
1	c0	180	GLU	CB-CA-C	-6.53	99.95	110.79
1	cj	7	GLN	CB-CG-CD	6.53	123.70	112.60
1	ck	112	GLN	CA-C-O	6.53	127.34	120.42
1	cv	14	ALA	O-C-N	-6.53	114.46	122.82
1	1i	2	ILE	CA-CB-CG1	6.53	121.50	110.40
1	dv	93	PRO	N-CD-CG	6.53	113.00	103.20
1	dM	183	ASN	CA-C-N	6.53	128.93	120.44
1	dM	183	ASN	C-N-CA	6.53	128.93	120.44
1	e2	162	ARG	NE-CZ-NH2	-6.53	113.32	119.20
1	e6	128	GLU	CA-C-O	6.53	127.34	120.42
1	eC	62	HIS	CA-CB-CG	-6.53	107.27	113.80
1	eY	167	ARG	NE-CZ-NH2	-6.53	113.32	119.20
1	A	129	ILE	CA-C-N	6.53	129.33	120.38
1	A	129	ILE	C-N-CA	6.53	129.33	120.38
1	6	61	GLY	N-CA-C	6.53	119.52	112.33
1	gL	126	VAL	CA-CB-CG2	6.53	121.50	110.40
1	gU	5	ASN	CA-CB-CG	6.53	119.13	112.60
1	ho	114	GLN	N-CA-C	6.53	118.06	111.07
1	ht	66	MET	CA-C-N	6.53	129.36	120.54
1	ht	66	MET	C-N-CA	6.53	129.36	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hI	6	LEU	CA-C-N	6.53	134.01	121.54
1	hI	6	LEU	C-N-CA	6.53	134.01	121.54
1	ib	212	GLU	CA-C-O	6.53	127.89	120.90
1	1P	39	MET	N-CA-CB	6.53	119.48	110.01
1	iv	188	THR	CA-C-N	6.53	129.33	120.38
1	iv	188	THR	C-N-CA	6.53	129.33	120.38
1	iB	219	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	iD	169	TYR	CA-C-O	6.53	127.47	120.55
1	jn	10	MET	CG-SD-CE	-6.53	86.53	100.90
1	jo	107	THR	N-CA-CB	6.53	119.82	110.16
1	jr	12	HIS	CB-CG-CD2	-6.53	122.71	131.20
1	1Z	50	GLN	N-CA-CB	6.53	119.72	110.12
1	kr	170	LYS	N-CA-C	6.53	118.06	111.07
1	kw	89	GLY	CA-C-O	-6.53	112.18	121.52
1	kH	66	MET	N-CA-C	6.53	120.51	112.54
1	kL	26	VAL	CA-C-O	-6.53	114.16	120.95
1	kX	201	ILE	CA-C-N	6.53	129.35	120.54
1	kX	201	ILE	C-N-CA	6.53	129.35	120.54
1	l1	159	GLU	CA-C-O	-6.53	114.49	119.32
1	l4	133	TRP	CB-CG-CD2	-6.53	117.66	126.80
1	lh	82	ARG	NH1-CZ-NH2	-6.53	110.81	119.30
1	27	85	PRO	CB-CA-C	6.53	122.33	111.56
1	li	35	GLU	CA-C-N	6.53	128.79	120.56
1	li	35	GLU	C-N-CA	6.53	128.79	120.56
1	lw	221	VAL	O-C-N	-6.53	115.55	122.67
1	lz	146	SER	CA-C-N	-6.53	113.48	120.47
1	lz	146	SER	C-N-CA	-6.53	113.48	120.47
1	lz	162	ARG	CD-NE-CZ	6.53	133.54	124.40
1	2p	156	GLY	N-CA-C	6.53	120.13	112.10
1	2x	195	ASN	CA-C-O	-6.53	113.30	120.87
1	2S	169	TYR	CA-C-O	6.53	127.34	120.42
1	2X	120	HIS	ND1-CE1-NE2	6.53	114.93	108.40
1	39	177	ALA	N-CA-CB	6.53	119.17	110.29
1	3p	210	THR	CA-C-N	6.53	129.03	120.28
1	3p	210	THR	C-N-CA	6.53	129.03	120.28
1	3D	184	TRP	CB-CA-C	6.53	121.63	110.79
1	3G	218	CYS	O-C-N	-6.53	114.74	122.58
1	42	36	VAL	O-C-N	-6.53	113.11	122.12
1	4g	15	ILE	N-CA-CB	6.53	118.67	110.05
1	4m	113	GLU	CA-C-N	6.53	129.03	120.28
1	4m	113	GLU	C-N-CA	6.53	129.03	120.28
1	4B	124	ILE	N-CA-C	6.53	116.08	108.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	155	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	4M	190	LEU	CA-C-N	6.53	128.79	120.56
1	4M	190	LEU	C-N-CA	6.53	128.79	120.56
1	4Q	166	ASP	CA-C-O	6.53	127.47	120.55
1	4Z	163	ASP	N-CA-C	6.53	119.23	111.33
1	50	231	LEU	CB-CA-C	-6.53	97.69	110.10
1	58	191	VAL	CA-C-O	6.53	127.30	120.25
1	5b	144	MET	N-CA-C	6.53	118.40	111.28
1	5g	58	THR	CA-C-N	6.53	130.30	120.77
1	5g	58	THR	C-N-CA	6.53	130.30	120.77
1	67	73	ILE	N-CA-C	6.53	117.28	110.62
1	6i	193	ASN	CA-CB-CG	6.53	119.13	112.60
1	6v	124	ILE	N-CA-C	-6.53	100.61	107.60
1	6V	134	ILE	CA-C-N	6.53	128.79	120.56
1	6V	134	ILE	C-N-CA	6.53	128.79	120.56
1	77	126	VAL	N-CA-C	6.53	119.25	111.09
1	7i	87	HIS	O-C-N	6.53	129.59	122.15
1	7D	150	ILE	CA-C-N	6.53	129.68	120.28
1	7D	150	ILE	C-N-CA	6.53	129.68	120.28
1	8n	146	SER	O-C-N	-6.53	113.81	121.32
1	8N	97	ARG	NH1-CZ-NH2	-6.53	110.81	119.30
1	9l	25	LYS	N-CA-CB	6.53	119.72	110.12
1	9R	26	VAL	CA-CB-CG1	6.53	121.50	110.40
1	9S	213	GLU	CA-C-N	6.53	129.36	120.54
1	9S	213	GLU	C-N-CA	6.53	129.36	120.54
1	aY	200	THR	CA-C-N	6.53	128.79	120.56
1	aY	200	THR	C-N-CA	6.53	128.79	120.56
1	bx	167	ARG	CA-C-N	6.53	128.93	120.44
1	bx	167	ARG	C-N-CA	6.53	128.93	120.44
1	bz	26	VAL	O-C-N	-6.53	115.53	121.87
1	bz	93	PRO	CA-C-N	6.53	131.44	121.51
1	bz	93	PRO	C-N-CA	6.53	131.44	121.51
1	bG	66	MET	N-CA-C	6.53	118.06	111.07
1	bK	87	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	bS	84	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	cb	127	GLY	O-C-N	6.53	128.45	122.18
1	cc	216	THR	N-CA-C	-6.53	105.23	113.72
1	ci	96	MET	O-C-N	-6.53	114.92	122.89
1	cz	5	ASN	CA-C-N	6.53	130.61	120.75
1	cz	5	ASN	C-N-CA	6.53	130.61	120.75
1	cL	24	VAL	N-CA-C	6.53	116.69	110.42
1	d4	124	ILE	O-C-N	-6.53	117.26	121.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d7	90	PRO	CB-CA-C	6.53	119.88	111.46
1	db	84	HIS	CA-C-N	6.53	126.56	119.90
1	db	84	HIS	C-N-CA	6.53	126.56	119.90
1	di	48	THR	CA-C-N	6.53	128.00	119.84
1	di	48	THR	C-N-CA	6.53	128.00	119.84
1	di	193	ASN	CA-CB-CG	-6.53	106.07	112.60
1	dy	225	GLY	O-C-N	-6.53	115.51	122.56
1	dT	26	VAL	O-C-N	-6.53	115.54	121.87
1	dU	36	VAL	CA-C-N	6.53	124.35	120.24
1	dU	36	VAL	C-N-CA	6.53	124.35	120.24
1	dW	77	ALA	CA-C-O	6.53	127.68	120.82
1	ep	57	ASN	CA-CB-CG	-6.53	106.07	112.60
1	eE	120	HIS	CA-C-O	-6.53	114.39	121.44
1	eT	39	MET	CA-C-O	-6.53	113.50	120.42
1	fg	164	TYR	O-C-N	-6.53	115.30	122.09
1	fn	28	GLU	N-CA-CB	6.53	119.48	110.01
1	fA	143	ARG	CA-C-O	-6.53	113.50	120.42
1	d	189	LEU	O-C-N	-6.53	114.70	122.15
1	2	185	MET	CA-C-O	-6.53	113.63	120.55
1	B	150	ILE	CA-C-O	6.53	127.56	120.57
1	G	200	THR	N-CA-C	6.53	118.95	111.11
1	N	223	GLY	CA-C-N	6.53	126.03	119.24
1	N	223	GLY	C-N-CA	6.53	126.03	119.24
1	9	157	PRO	N-CA-C	6.53	123.28	113.81
1	g9	76	GLU	CA-C-O	6.53	127.47	120.55
1	g9	168	PHE	O-C-N	-6.53	115.34	122.07
1	gU	176	GLN	CG-CD-NE2	6.53	126.19	116.40
1	hm	163	ASP	O-C-N	6.53	129.04	122.12
1	io	162	ARG	O-C-N	-6.53	114.30	122.20
1	iH	116	GLY	CA-C-N	6.53	128.93	120.44
1	iH	116	GLY	C-N-CA	6.53	128.93	120.44
1	iP	150	ILE	CA-C-N	6.53	129.68	120.28
1	iP	150	ILE	C-N-CA	6.53	129.68	120.28
1	j4	179	GLN	N-CA-C	6.53	118.40	111.28
1	lL	167	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	2d	112	GLN	CB-CA-C	-6.53	100.36	110.81
1	2n	136	LEU	CA-C-O	6.53	127.68	120.63
1	32	214	MET	CG-SD-CE	-6.53	86.54	100.90
1	3G	224	PRO	CA-C-N	6.53	134.21	121.41
1	3G	224	PRO	C-N-CA	6.53	134.21	121.41
1	3N	12	HIS	CB-CG-CD2	-6.53	122.71	131.20
1	48	27	VAL	CA-CB-CG1	6.53	121.50	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4h	132	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	4u	167	ARG	NH1-CZ-NH2	-6.53	110.81	119.30
1	4G	57	ASN	N-CA-C	6.53	121.25	113.28
1	4U	77	ALA	CA-C-N	6.53	128.93	120.44
1	4U	77	ALA	C-N-CA	6.53	128.93	120.44
1	67	101	GLY	CA-C-N	6.53	129.27	120.65
1	67	101	GLY	C-N-CA	6.53	129.27	120.65
1	6f	80	TRP	N-CA-C	6.53	118.06	111.07
1	6P	112	GLN	N-CA-C	6.53	118.40	111.28
1	6T	167	ARG	CA-C-N	6.53	128.93	120.44
1	6T	167	ARG	C-N-CA	6.53	128.93	120.44
1	7R	154	ARG	N-CA-C	6.53	119.08	108.76
1	84	201	ILE	N-CA-C	6.53	116.69	110.42
1	8z	53	ASN	N-CA-C	-6.53	104.08	111.07
1	9s	17	PRO	CA-C-N	6.53	128.93	120.44
1	9s	17	PRO	C-N-CA	6.53	128.93	120.44
1	ak	166	ASP	CA-C-N	6.53	129.56	120.29
1	ak	166	ASP	C-N-CA	6.53	129.56	120.29
1	aT	103	ASP	O-C-N	6.53	128.79	122.07
1	b5	155	GLN	O-C-N	-6.53	114.90	122.93
1	b9	163	ASP	CA-CB-CG	-6.53	106.07	112.60
1	bt	58	THR	O-C-N	-6.53	113.45	122.46
1	bH	77	ALA	CA-C-O	6.53	127.47	120.55
1	bW	10	MET	O-C-N	-6.53	115.40	123.04
1	cs	76	GLU	O-C-N	-6.53	115.34	122.07
1	cI	56	LEU	O-C-N	-6.53	115.30	122.09
1	dg	182	LYS	N-CA-C	6.53	119.23	111.33
1	eN	142	VAL	CB-CA-C	6.53	120.95	112.14
1	fe	12	HIS	O-C-N	-6.53	114.92	122.89
1	fs	79	GLU	CA-C-N	6.53	129.03	120.28
1	fs	79	GLU	C-N-CA	6.53	129.03	120.28
1	g3	12	HIS	ND1-CE1-NE2	6.53	114.93	108.40
1	4	18	ARG	NH1-CZ-NH2	-6.53	110.81	119.30
1	5	46	GLY	CA-C-O	6.53	127.93	119.44
1	gf	119	THR	N-CA-C	6.53	120.92	113.15
1	gk	141	ILE	N-CA-CB	6.53	119.42	110.54
1	gu	68	MET	CA-C-O	6.53	127.47	120.55
1	gB	193	ASN	N-CA-C	-6.53	104.94	113.17
1	gK	62	HIS	ND1-CE1-NE2	6.53	114.93	108.40
1	h8	95	GLN	O-C-N	-6.53	114.78	123.14
1	h9	26	VAL	CB-CA-C	6.53	120.59	112.04
1	hd	77	ALA	CA-C-N	6.53	129.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hd	77	ALA	C-N-CA	6.53	129.03	120.28
1	1L	226	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	hK	122	PRO	N-CA-CB	6.53	109.78	102.60
1	hS	223	GLY	O-C-N	-6.53	115.24	121.77
1	hX	162	ARG	N-CA-C	6.53	118.06	111.07
1	i4	84	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	ij	176	GLN	O-C-N	-6.53	113.91	122.59
1	iU	121	ASN	O-C-N	-6.53	112.44	121.12
1	iY	119	THR	CA-CB-OG1	6.53	119.39	109.60
1	jw	100	ARG	O-C-N	-6.53	115.35	122.79
1	jN	198	CYS	CA-C-N	6.53	129.03	120.28
1	jN	198	CYS	C-N-CA	6.53	129.03	120.28
1	kP	171	THR	CB-CA-C	-6.53	99.95	110.79
1	26	21	ASN	CA-C-O	-6.53	113.50	120.42
1	l8	62	HIS	ND1-CG-CD2	6.53	112.63	106.10
1	la	61	GLY	N-CA-C	6.53	121.00	112.25
1	le	98	GLU	N-CA-C	6.53	118.31	109.24
1	lL	13	GLN	CA-C-N	6.53	129.98	120.71
1	lL	13	GLN	C-N-CA	6.53	129.98	120.71
1	2s	215	MET	N-CA-C	6.53	119.22	111.71
1	2t	50	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	2x	62	HIS	ND1-CG-CD2	6.53	112.63	106.10
1	2z	167	ARG	N-CA-C	6.53	119.39	111.82
1	2C	146	SER	CA-C-O	-6.53	113.20	120.25
1	2I	5	ASN	N-CA-C	6.53	118.47	111.36
1	34	2	ILE	CA-C-N	6.53	129.31	120.63
1	34	2	ILE	C-N-CA	6.53	129.31	120.63
1	3q	217	ALA	N-CA-C	6.53	120.09	110.30
1	3z	195	ASN	CA-CB-CG	6.53	119.13	112.60
1	3U	45	GLU	CB-CA-C	-6.53	100.99	110.06
1	3Z	89	GLY	O-C-N	6.53	128.30	121.77
1	4M	12	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	5a	79	GLU	CA-C-O	-6.53	113.50	120.42
1	5j	12	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	5j	16	SER	CA-C-O	-6.53	113.57	120.23
1	5z	90	PRO	CA-C-N	-6.53	114.55	122.90
1	5z	90	PRO	C-N-CA	-6.53	114.55	122.90
1	5E	173	ARG	CA-C-O	6.53	127.18	119.28
1	6h	15	ILE	CA-C-N	6.53	129.53	120.65
1	6h	15	ILE	C-N-CA	6.53	129.53	120.65
1	6h	176	GLN	OE1-CD-NE2	-6.53	116.07	122.60
1	6E	130	TYR	CA-C-N	6.53	129.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6E	130	TYR	C-N-CA	6.53	129.68	120.28
1	7P	43	LEU	CA-C-O	6.53	127.47	120.55
1	7V	100	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	81	165	VAL	N-CA-C	6.53	117.31	110.72
1	86	87	HIS	CB-CG-CD2	-6.53	122.71	131.20
1	89	21	ASN	N-CA-C	6.53	118.40	111.28
1	8f	160	PRO	CA-C-N	6.53	129.56	120.29
1	8f	160	PRO	C-N-CA	6.53	129.56	120.29
1	8w	100	ARG	NE-CZ-NH1	6.53	128.03	121.50
1	8A	193	ASN	CB-CG-ND2	6.53	126.19	116.40
1	8N	48	THR	CA-C-N	6.53	128.00	119.84
1	8N	48	THR	C-N-CA	6.53	128.00	119.84
1	8P	169	TYR	N-CA-C	6.53	118.39	111.28
1	8S	217	ALA	CA-C-O	6.53	128.54	121.16
1	92	94	GLY	CA-C-N	6.53	131.39	122.19
1	92	94	GLY	C-N-CA	6.53	131.39	122.19
1	9a	5	ASN	CA-CB-CG	6.53	119.13	112.60
1	9d	150	ILE	N-CA-C	6.53	117.28	110.62
1	9i	37	ILE	N-CA-CB	-6.53	105.36	110.45
1	9V	125	PRO	N-CA-CB	-6.53	97.96	102.73
1	a2	49	PRO	N-CA-CB	6.53	110.11	103.25
1	a8	121	ASN	CA-C-O	-6.53	111.31	119.54
1	aH	182	LYS	O-C-N	-6.53	115.20	122.12
1	aM	116	GLY	CA-C-N	6.53	128.93	120.44
1	aM	116	GLY	C-N-CA	6.53	128.93	120.44
1	aU	114	GLN	N-CA-C	6.53	118.39	111.28
1	b3	41	SER	O-C-N	-6.53	115.04	122.09
1	bb	189	LEU	N-CA-C	6.53	119.22	111.71
1	17	194	ALA	O-C-N	-6.53	115.11	122.75
1	bn	185	MET	N-CA-C	6.53	118.39	111.28
1	bt	124	ILE	O-C-N	-6.53	115.89	121.57
1	bz	9	GLN	N-CA-C	6.53	120.47	109.76
1	19	138	LEU	N-CA-CB	6.53	119.72	110.12
1	bY	31	ALA	N-CA-C	6.53	124.70	110.80
1	bY	40	PHE	CA-CB-CG	6.53	120.33	113.80
1	cb	40	PHE	CA-CB-CG	6.53	120.33	113.80
1	ce	114	GLN	CA-C-N	6.53	129.40	120.46
1	ce	114	GLN	C-N-CA	6.53	129.40	120.46
1	cP	216	THR	CA-CB-CG2	6.53	121.60	110.50
1	d7	186	THR	N-CA-C	6.53	118.19	111.14
1	ds	198	CYS	CA-C-N	6.53	129.35	120.54
1	ds	198	CYS	C-N-CA	6.53	129.35	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eg	92	GLU	N-CA-C	6.53	117.93	109.64
1	ei	188	THR	CA-C-N	6.53	130.61	120.82
1	ei	188	THR	C-N-CA	6.53	130.61	120.82
1	eL	143	ARG	O-C-N	-6.53	114.71	122.15
1	fo	72	THR	N-CA-C	6.53	118.08	110.97
1	g3	192	GLN	CA-C-O	6.53	127.48	120.10
1	x	216	THR	N-CA-C	6.53	118.06	111.07
1	A	188	THR	CA-C-N	6.53	129.03	120.28
1	A	188	THR	C-N-CA	6.53	129.03	120.28
1	R	189	LEU	CA-C-N	6.53	129.86	120.79
1	R	189	LEU	C-N-CA	6.53	129.86	120.79
1	V	71	GLU	CA-C-N	6.53	129.32	120.38
1	V	71	GLU	C-N-CA	6.53	129.32	120.38
1	8	24	VAL	CA-CB-CG1	6.53	121.50	110.40
1	gg	166	ASP	CA-CB-CG	6.53	119.13	112.60
1	gt	214	MET	CG-SD-CE	-6.53	86.55	100.90
1	gN	178	SER	N-CA-C	6.53	119.44	110.24
1	hb	46	GLY	CA-C-N	6.53	130.68	121.02
1	hb	46	GLY	C-N-CA	6.53	130.68	121.02
1	hS	194	ALA	N-CA-C	6.53	119.36	110.55
1	1M	73	ILE	CA-C-N	6.53	129.02	120.28
1	1M	73	ILE	C-N-CA	6.53	129.02	120.28
1	i7	102	SER	N-CA-C	6.53	120.34	112.38
1	iw	50	GLN	N-CA-C	6.53	118.94	111.11
1	iM	81	ASP	O-C-N	-6.53	114.24	122.27
1	iO	57	ASN	CA-C-N	6.53	129.68	120.28
1	iO	57	ASN	C-N-CA	6.53	129.68	120.28
1	iT	136	LEU	N-CA-CB	-6.53	100.53	110.12
1	jl	131	LYS	O-C-N	-6.53	115.35	122.07
1	kl	84	HIS	CG-CD2-NE2	6.53	113.73	107.20
1	kl	212	GLU	CA-C-N	6.53	129.56	120.29
1	kl	212	GLU	C-N-CA	6.53	129.56	120.29
1	kn	204	ALA	CA-C-O	6.53	127.67	120.82
1	l1	37	ILE	N-CA-CB	6.53	115.54	110.45
1	lN	192	GLN	N-CA-C	6.53	120.10	111.75
1	2v	48	THR	O-C-N	-6.53	114.22	121.53
1	2S	86	VAL	CB-CA-C	6.53	120.49	110.96
1	38	168	PHE	CA-CB-CG	6.53	120.33	113.80
1	3a	22	ALA	CA-C-N	6.53	129.03	120.28
1	3a	22	ALA	C-N-CA	6.53	129.03	120.28
1	3t	139	ASN	OD1-CG-ND2	-6.53	116.08	122.60
1	3y	170	LYS	CB-CA-C	-6.53	99.96	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	88	ALA	N-CA-C	6.53	118.39	111.28
1	3X	84	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
1	4f	168	PHE	CA-CB-CG	-6.53	107.27	113.80
1	4D	13	GLN	N-CA-C	-6.53	97.97	109.06
1	4L	168	PHE	CA-C-O	6.53	127.34	120.42
1	4P	74	ASN	CA-C-N	6.53	128.92	120.44
1	4P	74	ASN	C-N-CA	6.53	128.92	120.44
1	51	191	VAL	CA-C-O	6.53	126.37	119.91
1	59	162	ARG	NE-CZ-NH2	6.53	125.07	119.20
1	6I	34	PRO	N-CA-C	-6.53	105.02	113.57
1	6T	133	TRP	CA-C-N	6.53	129.40	120.46
1	6T	133	TRP	C-N-CA	6.53	129.40	120.46
1	7z	8	GLY	N-CA-C	6.53	122.81	111.78
1	7D	24	VAL	CA-C-O	-6.53	114.48	121.27
1	8j	163	ASP	N-CA-C	6.53	118.94	111.11
1	8w	119	THR	CA-CB-OG1	6.53	119.39	109.60
1	8x	36	VAL	N-CA-C	6.53	117.28	110.62
1	8B	223	GLY	O-C-N	6.53	128.29	121.77
1	8H	68	MET	CA-C-N	6.53	129.86	120.79
1	8H	68	MET	C-N-CA	6.53	129.86	120.79
1	8I	58	THR	CA-C-N	6.53	128.91	120.56
1	8I	58	THR	C-N-CA	6.53	128.91	120.56
1	8Y	101	GLY	CA-C-N	6.53	129.03	120.28
1	8Y	101	GLY	C-N-CA	6.53	129.03	120.28
1	92	68	MET	CA-C-O	6.53	127.49	119.79
1	9B	148	THR	CA-C-O	6.53	127.56	120.58
1	9Q	84	HIS	CA-CB-CG	-6.53	107.28	113.80
1	a9	99	PRO	CB-CA-C	6.53	119.86	111.64
1	ar	117	TRP	N-CA-C	6.53	118.98	111.02
1	aI	32	PHE	CA-CB-CG	-6.53	107.27	113.80
1	14	88	ALA	O-C-N	-6.53	114.84	122.87
1	aU	65	ALA	N-CA-C	6.53	118.05	111.07
1	bd	194	ALA	N-CA-C	6.53	118.72	110.24
1	bm	198	CYS	N-CA-C	-6.53	104.25	111.36
1	bv	130	TYR	O-C-N	-6.53	114.58	122.22
1	bC	62	HIS	ND1-CG-CD2	6.53	112.62	106.10
1	bR	106	GLY	N-CA-C	-6.53	106.73	115.21
1	c5	1	PRO	CB-CA-C	6.53	122.50	110.10
1	cz	214	MET	O-C-N	6.53	129.04	122.12
1	cA	52	LEU	N-CA-C	6.53	118.94	111.11
1	cM	9	GLN	O-C-N	-6.53	115.90	123.27
1	cM	114	GLN	OE1-CD-NE2	-6.53	116.08	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1h	209	ALA	CA-C-O	6.53	129.40	122.03
1	d0	41	SER	O-C-N	6.53	128.79	122.07
1	d0	102	SER	O-C-N	-6.53	113.45	122.46
1	di	189	LEU	N-CA-C	6.53	119.21	111.71
1	dL	146	SER	CA-C-N	6.53	128.00	119.84
1	dL	146	SER	C-N-CA	6.53	128.00	119.84
1	eb	41	SER	N-CA-C	6.53	118.05	111.07
1	ed	187	GLU	O-C-N	-6.53	113.91	122.59
1	fI	164	TYR	CA-C-O	6.53	127.68	120.63
1	fP	76	GLU	CA-C-N	6.53	129.03	120.28
1	fP	76	GLU	C-N-CA	6.53	129.03	120.28
1	y	62	HIS	CA-C-N	6.53	129.02	120.28
1	y	62	HIS	C-N-CA	6.53	129.02	120.28
1	V	113	GLU	CA-C-N	6.53	129.02	120.28
1	V	113	GLU	C-N-CA	6.53	129.02	120.28
1	7	100	ARG	NE-CZ-NH2	-6.53	113.33	119.20
1	ga	162	ARG	N-CA-C	6.52	118.05	111.07
1	gj	62	HIS	N-CA-CB	6.52	120.95	111.62
1	gs	186	THR	CA-C-N	6.52	129.26	120.65
1	gs	186	THR	C-N-CA	6.52	129.26	120.65
1	gF	193	ASN	O-C-N	-6.52	114.59	122.48
1	hb	2	ILE	CA-C-O	6.52	126.86	120.27
1	hr	78	ALA	O-C-N	-6.52	115.20	122.12
1	hx	90	PRO	O-C-N	-6.52	113.83	122.64
1	hA	53	ASN	O-C-N	-6.52	115.20	122.12
1	hW	115	ILE	CB-CA-C	6.52	120.32	111.97
1	i2	65	ALA	CB-CA-C	-6.52	98.56	110.63
1	i8	43	LEU	CB-CA-C	6.52	121.12	110.88
1	jj	133	TRP	CA-C-O	6.52	127.67	120.82
1	jj	165	VAL	CA-C-N	6.52	128.92	120.44
1	jj	165	VAL	C-N-CA	6.52	128.92	120.44
1	jj	190	LEU	CA-C-N	6.52	128.78	120.56
1	jj	190	LEU	C-N-CA	6.52	128.78	120.56
1	jn	37	ILE	N-CA-CB	6.52	114.89	110.52
1	jA	18	ARG	CD-NE-CZ	-6.52	115.27	124.40
1	jX	62	HIS	CB-CA-C	-6.52	102.16	111.95
1	kI	159	GLU	O-C-N	-6.52	115.11	121.18
1	26	146	SER	CA-C-O	-6.52	111.22	120.16
1	l8	12	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	lx	54	THR	CA-C-N	6.52	129.02	120.28
1	lx	54	THR	C-N-CA	6.52	129.02	120.28
1	2x	56	LEU	N-CA-C	6.52	118.05	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3z	135	ILE	N-CA-C	6.52	117.21	110.36
1	3Y	115	ILE	CA-C-N	6.52	127.05	119.94
1	3Y	115	ILE	C-N-CA	6.52	127.05	119.94
1	5P	36	VAL	N-CA-C	6.52	117.27	110.62
1	5Q	124	ILE	CA-C-O	6.52	122.77	119.12
1	5Y	228	ALA	N-CA-C	6.52	119.14	110.53
1	6f	62	HIS	N-CA-C	6.52	120.17	111.30
1	6g	121	ASN	CB-CG-ND2	6.52	126.19	116.40
1	6E	41	SER	N-CA-C	6.52	118.39	111.28
1	6I	26	VAL	CA-C-N	6.52	131.00	120.30
1	6I	26	VAL	C-N-CA	6.52	131.00	120.30
1	6Q	224	PRO	N-CA-CB	6.52	110.44	103.52
1	6S	214	MET	CA-C-N	6.52	131.04	120.60
1	6S	214	MET	C-N-CA	6.52	131.04	120.60
1	71	162	ARG	O-C-N	-6.52	114.71	122.15
1	72	153	ILE	CA-C-N	6.52	134.00	121.54
1	72	153	ILE	C-N-CA	6.52	134.00	121.54
1	7i	48	THR	N-CA-CB	6.52	117.31	109.74
1	7J	24	VAL	O-C-N	-6.52	115.54	121.87
1	8U	110	THR	N-CA-C	6.52	118.75	110.33
1	9e	200	THR	CB-CA-C	-6.52	100.64	110.88
1	9z	48	THR	N-CA-CB	6.52	119.44	110.05
1	ag	225	GLY	O-C-N	-6.52	116.98	122.92
1	aG	142	VAL	O-C-N	-6.52	115.54	121.87
1	aN	117	TRP	O-C-N	-6.52	115.35	122.07
1	b4	166	ASP	N-CA-C	6.52	118.05	111.07
1	b5	159	GLU	CA-C-N	6.52	127.99	119.84
1	b5	159	GLU	C-N-CA	6.52	127.99	119.84
1	bV	25	LYS	N-CA-C	6.52	118.39	111.28
1	1b	11	VAL	O-C-N	-6.52	116.12	123.10
1	cb	143	ARG	CA-C-N	6.52	129.02	120.28
1	cb	143	ARG	C-N-CA	6.52	129.02	120.28
1	cY	26	VAL	CA-CB-CG1	6.52	121.49	110.40
1	dq	129	ILE	N-CA-C	-6.52	104.13	110.72
1	ds	88	ALA	N-CA-C	6.52	118.98	110.43
1	dZ	146	SER	O-C-N	-6.52	114.58	121.30
1	f1	81	ASP	N-CA-C	6.52	118.39	111.28
1	fg	140	LYS	CA-C-O	6.52	127.47	120.55
1	b	15	ILE	O-C-N	-6.52	115.72	122.63
1	z	37	ILE	O-C-N	-6.52	113.66	121.10
1	gW	133	TRP	CA-CB-CG	6.52	125.99	113.60
1	h3	67	GLN	CA-C-N	6.52	129.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	67	GLN	C-N-CA	6.52	129.02	120.28
1	1I	230	VAL	O-C-N	-6.52	116.02	122.67
1	hQ	7	GLN	O-C-N	-6.52	113.97	122.39
1	hW	155	GLN	CA-C-N	6.52	129.71	121.36
1	hW	155	GLN	C-N-CA	6.52	129.71	121.36
1	i5	72	THR	N-CA-C	6.52	118.94	111.11
1	i6	104	ILE	N-CA-CB	6.52	119.41	110.54
1	is	38	PRO	N-CD-CG	6.52	112.98	103.20
1	iH	94	GLY	O-C-N	-6.52	116.63	122.57
1	iJ	126	VAL	CA-C-N	6.52	127.22	119.98
1	iJ	126	VAL	C-N-CA	6.52	127.22	119.98
1	1T	50	GLN	N-CA-C	6.52	119.22	111.33
1	jc	126	VAL	N-CA-CB	-6.52	102.32	110.47
1	1X	46	GLY	CA-C-O	6.52	126.26	119.02
1	jU	148	THR	N-CA-CB	6.52	119.73	110.67
1	kI	146	SER	N-CA-CB	6.52	120.07	109.90
1	24	85	PRO	N-CA-C	6.52	121.48	111.11
1	l2	162	ARG	O-C-N	-6.52	115.21	122.12
1	lh	76	GLU	N-CA-C	6.52	118.39	111.28
1	28	74	ASN	CA-CB-CG	-6.52	106.08	112.60
1	lK	162	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	2b	132	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	2c	174	ALA	CA-C-N	6.52	129.97	120.71
1	2c	174	ALA	C-N-CA	6.52	129.97	120.71
1	3e	66	MET	CA-C-O	6.52	127.67	120.82
1	3j	120	HIS	CB-CG-ND1	6.52	132.48	122.70
1	3x	134	ILE	O-C-N	-6.52	115.52	121.91
1	3H	84	HIS	CA-C-O	6.52	126.21	119.49
1	3S	166	ASP	CA-C-O	6.52	127.67	120.82
1	3W	63	GLN	N-CA-C	6.52	118.47	111.36
1	44	10	MET	O-C-N	-6.52	114.85	122.87
1	48	155	GLN	O-C-N	-6.52	114.91	122.93
1	4l	195	ASN	CA-C-N	6.52	127.99	119.84
1	4l	195	ASN	C-N-CA	6.52	127.99	119.84
1	4G	91	ILE	N-CA-C	-6.52	99.07	108.53
1	4Y	33	SER	O-C-N	-6.52	114.58	121.30
1	5v	153	ILE	CB-CA-C	6.52	120.15	111.21
1	60	149	SER	N-CA-C	6.52	119.44	110.24
1	63	229	ARG	NE-CZ-NH1	6.52	128.02	121.50
1	6k	180	GLU	N-CA-C	6.52	119.22	111.33
1	6S	127	GLY	O-C-N	-6.52	115.67	122.13
1	7c	195	ASN	OD1-CG-ND2	-6.52	116.08	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	105	ALA	CA-C-O	6.52	126.94	119.18
1	7U	30	LYS	CA-C-O	6.52	125.95	118.97
1	88	106	GLY	CA-C-N	6.52	129.02	120.28
1	88	106	GLY	C-N-CA	6.52	129.02	120.28
1	9u	98	GLU	O-C-N	-6.52	115.50	121.30
1	9x	223	GLY	O-C-N	-6.52	116.55	122.42
1	9S	167	ARG	NE-CZ-NH1	6.52	128.02	121.50
1	9X	57	ASN	CA-C-O	6.52	127.40	119.31
1	aB	36	VAL	CA-C-N	6.52	125.55	120.33
1	aB	36	VAL	C-N-CA	6.52	125.55	120.33
1	14	70	LYS	O-C-N	-6.52	114.72	122.15
1	ba	28	GLU	N-CA-C	6.52	118.05	111.07
1	bU	135	ILE	N-CA-C	6.52	117.27	110.62
1	cP	29	GLU	N-CA-CB	6.52	119.53	110.07
1	dc	132	ARG	NE-CZ-NH1	6.52	128.02	121.50
1	dc	198	CYS	N-CA-CB	6.52	119.92	110.20
1	du	127	GLY	O-C-N	-6.52	114.84	122.34
1	1l	201	ILE	N-CA-C	6.52	116.68	110.42
1	dM	154	ARG	NH1-CZ-NH2	-6.52	110.82	119.30
1	dO	177	ALA	N-CA-CB	-6.52	100.45	110.04
1	dP	44	SER	CA-C-O	6.52	127.84	119.95
1	ec	40	PHE	CA-C-N	6.52	129.86	120.79
1	ec	40	PHE	C-N-CA	6.52	129.86	120.79
1	ec	63	GLN	O-C-N	-6.52	115.21	122.12
1	f5	173	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	fl	112	GLN	OE1-CD-NE2	-6.52	116.08	122.60
1	fm	166	ASP	CA-C-N	6.52	129.35	120.54
1	fm	166	ASP	C-N-CA	6.52	129.35	120.54
1	fr	123	PRO	N-CA-C	6.52	125.91	112.47
1	fB	206	GLY	O-C-N	-6.52	115.25	121.77
1	fI	152	ASP	CA-CB-CG	6.52	119.12	112.60
1	k	175	GLU	N-CA-C	-6.52	105.29	113.18
1	A	68	MET	N-CA-C	6.52	118.39	111.28
1	F	28	GLU	N-CA-C	6.52	118.39	111.28
1	J	172	LEU	O-C-N	-6.52	114.71	122.15
1	6	92	GLU	N-CA-C	-6.52	102.35	108.22
1	ga	197	ASP	CA-C-N	6.52	129.55	120.29
1	ga	197	ASP	C-N-CA	6.52	129.55	120.29
1	gg	175	GLU	N-CA-C	6.52	119.69	110.23
1	h5	163	ASP	CA-C-O	6.52	127.33	120.42
1	hl	143	ARG	CA-C-O	6.52	127.46	120.55
1	ht	101	GLY	CA-C-O	6.52	127.19	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hM	5	ASN	CA-CB-CG	-6.52	106.08	112.60
1	i0	75	GLU	CA-C-N	6.52	129.02	120.28
1	i0	75	GLU	C-N-CA	6.52	129.02	120.28
1	j3	31	ALA	CB-CA-C	-6.52	109.04	116.54
1	j7	26	VAL	CA-C-N	6.52	129.39	120.46
1	j7	26	VAL	C-N-CA	6.52	129.39	120.46
1	jJ	98	GLU	O-C-N	-6.52	115.50	121.30
1	k7	130	TYR	O-C-N	-6.52	115.21	122.12
1	ld	108	THR	O-C-N	-6.52	114.72	122.15
1	2V	32	PHE	CA-CB-CG	-6.52	107.28	113.80
1	3i	163	ASP	CA-CB-CG	-6.52	106.08	112.60
1	3H	26	VAL	CA-C-O	-6.52	113.81	121.05
1	3N	161	PHE	CB-CA-C	6.52	121.12	110.88
1	42	229	ARG	CA-C-N	6.52	128.78	120.56
1	42	229	ARG	C-N-CA	6.52	128.78	120.56
1	4y	198	CYS	CA-C-N	6.52	129.34	120.54
1	4y	198	CYS	C-N-CA	6.52	129.34	120.54
1	63	39	MET	N-CA-C	6.52	118.05	111.07
1	68	56	LEU	N-CA-C	6.52	118.39	111.28
1	7b	155	GLN	N-CA-C	6.52	119.17	109.59
1	8l	120	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	9E	71	GLU	CA-C-N	6.52	129.31	120.44
1	9E	71	GLU	C-N-CA	6.52	129.31	120.44
1	a1	39	MET	CA-C-N	6.52	129.02	120.28
1	a1	39	MET	C-N-CA	6.52	129.02	120.28
1	ab	145	TYR	CB-CG-CD1	6.52	130.58	120.80
1	ai	174	ALA	N-CA-C	6.52	120.50	112.54
1	aE	226	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	b5	72	THR	CA-C-O	6.52	127.46	120.55
1	cM	113	GLU	N-CA-C	6.52	118.47	111.36
1	dc	149	SER	N-CA-C	6.52	119.22	110.35
1	f0	219	GLN	CB-CG-CD	6.52	123.69	112.60
1	f2	119	THR	O-C-N	6.52	129.58	122.15
1	1A	12	HIS	CB-CA-C	6.52	120.47	109.84
1	fY	87	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	1D	21	ASN	CA-CB-CG	6.52	119.12	112.60
1	gv	37	ILE	N-CA-C	6.52	122.96	108.88
1	gH	50	GLN	O-C-N	-6.52	115.21	122.12
1	gX	193	ASN	CA-C-N	6.52	130.59	120.75
1	gX	193	ASN	C-N-CA	6.52	130.59	120.75
1	h9	154	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	hA	26	VAL	O-C-N	-6.52	115.42	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ik	39	MET	CG-SD-CE	-6.52	86.56	100.90
1	iJ	82	ARG	NE-CZ-NH1	6.52	128.02	121.50
1	iJ	179	GLN	N-CA-CB	6.52	119.70	110.12
1	jk	75	GLU	O-C-N	-6.52	115.21	122.12
1	jq	102	SER	CA-C-O	6.52	127.39	119.31
1	js	45	GLU	O-C-N	-6.52	115.25	122.03
1	jQ	78	ALA	N-CA-C	6.52	118.93	111.11
1	jR	54	THR	N-CA-C	-6.52	104.25	111.36
1	kK	13	GLN	N-CA-C	-6.52	99.29	109.72
1	l6	50	GLN	CA-C-N	6.52	128.92	120.44
1	l6	50	GLN	C-N-CA	6.52	128.92	120.44
1	lp	105	ALA	CA-C-O	6.52	127.67	120.82
1	lq	165	VAL	N-CA-C	6.52	117.27	110.62
1	lM	181	VAL	O-C-N	-6.52	115.42	121.94
1	lR	37	ILE	N-CA-CB	6.52	115.53	110.45
1	2b	165	VAL	N-CA-C	6.52	117.27	110.62
1	2e	205	LEU	CA-C-N	6.52	132.11	121.87
1	2e	205	LEU	C-N-CA	6.52	132.11	121.87
1	2r	120	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	2z	25	LYS	N-CA-C	6.52	118.39	111.28
1	2K	195	ASN	CA-C-N	6.52	126.02	119.24
1	2K	195	ASN	C-N-CA	6.52	126.02	119.24
1	2N	5	ASN	OD1-CG-ND2	-6.52	116.08	122.60
1	2Z	90	PRO	N-CA-C	6.52	121.48	111.11
1	3b	133	TRP	CD2-CE2-CZ2	-6.52	115.88	122.40
1	3m	75	GLU	N-CA-C	6.52	119.38	111.82
1	3M	1	PRO	CB-CA-C	6.52	122.49	110.10
1	3P	86	VAL	N-CA-C	6.52	117.25	107.80
1	3U	162	ARG	NE-CZ-NH1	6.52	128.02	121.50
1	3V	170	LYS	N-CA-C	6.52	119.38	111.82
1	41	226	HIS	N-CA-C	6.52	119.94	110.42
1	4I	105	ALA	CA-C-N	6.52	132.98	120.66
1	4I	105	ALA	C-N-CA	6.52	132.98	120.66
1	5d	87	HIS	CA-CB-CG	-6.52	107.28	113.80
1	5o	145	TYR	CA-C-N	6.52	129.00	120.26
1	5o	145	TYR	C-N-CA	6.52	129.00	120.26
1	5N	115	ILE	CA-C-N	6.52	127.36	119.99
1	5N	115	ILE	C-N-CA	6.52	127.36	119.99
1	5R	5	ASN	CA-CB-CG	6.52	119.12	112.60
1	5X	138	LEU	CA-C-N	6.52	129.01	120.28
1	5X	138	LEU	C-N-CA	6.52	129.01	120.28
1	6H	183	ASN	O-C-N	-6.52	115.10	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6K	197	ASP	N-CA-C	6.52	118.39	111.28
1	74	20	LEU	O-C-N	-6.52	115.21	122.12
1	76	148	THR	CA-C-O	-6.52	114.03	121.40
1	77	124	ILE	CB-CA-C	6.52	118.51	110.95
1	7E	15	ILE	N-CA-CB	6.52	121.08	110.13
1	7L	84	HIS	CA-C-N	6.52	126.91	119.93
1	7L	84	HIS	C-N-CA	6.52	126.91	119.93
1	8d	184	TRP	CA-CB-CG	6.52	125.99	113.60
1	8k	188	THR	N-CA-CB	6.52	120.43	110.39
1	8o	111	LEU	N-CA-C	6.52	119.22	111.33
1	8Q	229	ARG	N-CA-C	6.52	118.97	110.43
1	9c	116	GLY	N-CA-C	6.52	120.53	112.64
1	9o	67	GLN	CA-C-O	-6.52	114.15	121.00
1	9B	77	ALA	CA-C-O	6.52	127.46	120.55
1	bi	23	TRP	O-C-N	6.52	129.13	122.09
1	18	146	SER	CA-C-O	-6.52	111.23	120.16
1	bz	11	VAL	O-C-N	-6.52	115.71	122.82
1	bE	80	TRP	CA-C-O	6.52	127.47	120.10
1	bT	173	ARG	CA-C-N	6.52	133.99	121.54
1	bT	173	ARG	C-N-CA	6.52	133.99	121.54
1	c0	61	GLY	CA-C-O	6.52	129.53	122.03
1	c6	210	THR	CA-C-N	6.52	129.90	120.38
1	c6	210	THR	C-N-CA	6.52	129.90	120.38
1	cq	145	TYR	N-CA-C	-6.52	104.47	112.88
1	cD	154	ARG	O-C-N	-6.52	116.05	123.48
1	cE	173	ARG	NH1-CZ-NH2	-6.52	110.82	119.30
1	cT	165	VAL	CA-C-O	6.52	127.29	120.25
1	cW	128	GLU	N-CA-C	6.52	118.05	111.07
1	cY	171	THR	CA-C-O	6.52	127.67	120.82
1	dm	20	LEU	CA-C-O	-6.52	113.97	120.82
1	dG	137	GLY	CA-C-N	6.52	129.31	120.44
1	dG	137	GLY	C-N-CA	6.52	129.31	120.44
1	ea	150	ILE	CA-C-N	6.52	132.55	121.14
1	ea	150	ILE	C-N-CA	6.52	132.55	121.14
1	ec	160	PRO	N-CD-CG	6.52	112.98	103.20
1	ef	60	GLY	CA-C-N	-6.52	115.82	122.27
1	ef	60	GLY	C-N-CA	-6.52	115.82	122.27
1	em	130	TYR	CB-CG-CD2	-6.52	111.02	120.80
1	eJ	130	TYR	CA-C-N	6.52	129.34	120.54
1	eJ	130	TYR	C-N-CA	6.52	129.34	120.54
1	fy	163	ASP	N-CA-C	6.52	118.93	111.11
1	1y	68	MET	CA-C-N	6.52	129.25	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1y	68	MET	C-N-CA	6.52	129.25	120.65
1	fF	191	VAL	CA-C-O	6.52	126.36	119.91
1	fF	210	THR	CA-CB-CG2	-6.52	99.42	110.50
1	fV	101	GLY	N-CA-C	6.52	120.78	112.83
1	o	100	ARG	O-C-N	-6.52	114.63	122.65
1	u	27	VAL	N-CA-C	6.52	116.68	110.42
1	E	91	ILE	O-C-N	-6.52	115.55	121.87
1	F	84	HIS	CA-CB-CG	-6.52	107.28	113.80
1	N	134	ILE	CA-C-N	6.52	128.78	120.56
1	N	134	ILE	C-N-CA	6.52	128.78	120.56
1	U	86	VAL	CA-C-O	6.52	127.50	120.53
1	gn	62	HIS	CA-C-N	6.52	129.01	120.28
1	gn	62	HIS	C-N-CA	6.52	129.01	120.28
1	gz	150	ILE	CA-C-O	-6.52	114.17	120.95
1	1F	187	GLU	O-C-N	6.52	129.58	122.15
1	gV	20	LEU	N-CA-C	6.52	118.18	111.14
1	gV	134	ILE	N-CA-C	6.52	116.68	110.42
1	gX	214	MET	N-CA-C	6.52	118.04	111.07
1	h4	82	ARG	N-CA-C	6.52	118.46	111.36
1	hj	59	VAL	N-CA-C	6.52	117.73	108.93
1	1L	87	HIS	ND1-CE1-NE2	6.52	114.92	108.40
1	hU	92	GLU	N-CA-C	6.52	117.92	109.64
1	ip	54	THR	O-C-N	-6.52	115.21	122.12
1	1U	82	ARG	CA-C-N	6.52	129.67	120.28
1	1U	82	ARG	C-N-CA	6.52	129.67	120.28
1	jh	132	ARG	O-C-N	-6.52	115.21	122.12
1	jy	73	ILE	N-CA-C	6.52	117.27	110.62
1	k9	113	GLU	O-C-N	-6.52	115.31	122.09
1	21	129	ILE	CA-C-O	-6.52	113.81	121.05
1	ks	113	GLU	CA-C-O	-6.52	113.98	120.82
1	kQ	161	PHE	O-C-N	-6.52	113.92	122.59
1	kY	161	PHE	CA-C-O	-6.52	113.64	120.55
1	l0	90	PRO	CA-C-N	6.52	129.48	120.49
1	l0	90	PRO	C-N-CA	6.52	129.48	120.49
1	lr	40	PHE	CA-C-O	6.52	127.46	120.55
1	lv	56	LEU	N-CA-C	6.52	119.38	111.82
1	2e	172	LEU	O-C-N	-6.52	115.36	122.07
1	2v	62	HIS	ND1-CE1-NE2	6.52	114.92	108.40
1	2v	117	TRP	CB-CG-CD1	-6.52	117.12	126.90
1	2C	86	VAL	N-CA-CB	6.52	118.25	110.95
1	3e	75	GLU	N-CA-C	6.52	118.04	111.07
1	3p	27	VAL	O-C-N	-6.52	115.12	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3s	3	VAL	N-CA-C	6.52	118.19	107.24
1	3s	187	GLU	CA-C-N	6.52	129.54	120.29
1	3s	187	GLU	C-N-CA	6.52	129.54	120.29
1	3x	63	GLN	OE1-CD-NE2	-6.52	116.08	122.60
1	3I	164	TYR	CA-C-O	6.52	127.66	120.82
1	3T	157	PRO	CA-C-N	6.52	128.91	120.44
1	3T	157	PRO	C-N-CA	6.52	128.91	120.44
1	41	16	SER	CA-C-N	6.52	126.45	119.28
1	41	16	SER	C-N-CA	6.52	126.45	119.28
1	46	195	ASN	CA-C-O	-6.52	113.33	120.69
1	49	167	ARG	N-CA-C	6.52	118.39	111.28
1	4g	62	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	4h	225	GLY	O-C-N	-6.52	114.89	122.91
1	4C	162	ARG	CA-C-N	6.52	128.91	120.44
1	4C	162	ARG	C-N-CA	6.52	128.91	120.44
1	4U	168	PHE	CB-CA-C	6.52	121.20	110.90
1	4W	126	VAL	CA-C-N	6.52	127.18	119.94
1	4W	126	VAL	C-N-CA	6.52	127.18	119.94
1	5j	21	ASN	N-CA-CB	-6.52	100.54	110.12
1	5q	121	ASN	OD1-CG-ND2	6.52	129.12	122.60
1	5t	43	LEU	CA-C-O	6.52	127.19	119.56
1	5O	213	GLU	CA-C-N	6.52	128.91	120.44
1	5O	213	GLU	C-N-CA	6.52	128.91	120.44
1	5X	120	HIS	CA-CB-CG	6.52	120.32	113.80
1	6g	97	ARG	O-C-N	-6.52	115.59	122.96
1	6u	104	ILE	CA-C-O	-6.52	114.26	121.17
1	6Q	13	GLN	CB-CG-CD	6.52	123.68	112.60
1	76	104	ILE	N-CA-C	6.52	116.68	110.42
1	7q	134	ILE	CB-CA-C	-6.52	103.48	112.02
1	8u	15	ILE	CA-CB-CG1	6.52	121.48	110.40
1	8x	12	HIS	ND1-CE1-NE2	6.52	114.92	108.40
1	8B	26	VAL	CA-C-N	6.52	130.99	120.30
1	8B	26	VAL	C-N-CA	6.52	130.99	120.30
1	95	55	MET	CA-C-O	6.52	127.87	120.90
1	97	108	THR	CB-CA-C	-6.52	99.43	110.64
1	9e	71	GLU	N-CA-C	6.52	118.38	111.28
1	9m	11	VAL	N-CA-CB	6.52	122.05	111.36
1	9w	84	HIS	O-C-N	-6.52	114.59	121.30
1	9R	52	LEU	N-CA-C	6.52	119.22	111.33
1	9Y	80	TRP	CA-C-N	6.52	129.01	120.28
1	9Y	80	TRP	C-N-CA	6.52	129.01	120.28
1	a1	52	LEU	CA-C-N	6.52	129.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a1	52	LEU	C-N-CA	6.52	129.01	120.28
1	a2	129	ILE	CA-C-O	6.52	128.08	121.17
1	10	41	SER	CA-C-O	6.52	127.46	120.55
1	aj	114	GLN	OE1-CD-NE2	-6.52	116.08	122.60
1	an	215	MET	CA-C-O	6.52	127.45	119.11
1	aw	11	VAL	N-CA-C	6.52	119.02	109.63
1	ay	71	GLU	CA-C-N	6.52	129.34	120.54
1	ay	71	GLU	C-N-CA	6.52	129.34	120.54
1	b4	192	GLN	CB-CG-CD	6.52	123.68	112.60
1	b7	178	SER	O-C-N	-6.52	115.12	122.75
1	b7	218	CYS	N-CA-C	6.52	120.38	111.39
1	bf	229	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	bC	77	ALA	CA-C-N	6.52	129.66	120.28
1	bC	77	ALA	C-N-CA	6.52	129.66	120.28
1	bK	219	GLN	CG-CD-NE2	6.52	126.18	116.40
1	bR	205	LEU	CA-C-N	6.52	132.10	121.87
1	bR	205	LEU	C-N-CA	6.52	132.10	121.87
1	c7	39	MET	O-C-N	-6.52	115.36	122.07
1	1d	71	GLU	CB-CA-C	6.52	121.61	110.79
1	cG	80	TRP	CA-C-N	6.52	129.01	120.28
1	cG	80	TRP	C-N-CA	6.52	129.01	120.28
1	cQ	146	SER	CA-C-O	-6.52	112.02	118.34
1	1i	167	ARG	CA-C-N	6.52	128.91	120.44
1	1i	167	ARG	C-N-CA	6.52	128.91	120.44
1	dd	166	ASP	CA-CB-CG	6.52	119.12	112.60
1	dT	212	GLU	CA-C-N	6.52	130.22	120.31
1	dT	212	GLU	C-N-CA	6.52	130.22	120.31
1	e4	33	SER	CA-C-N	6.52	127.99	119.84
1	e4	33	SER	C-N-CA	6.52	127.99	119.84
1	e8	181	VAL	CA-C-N	6.52	129.31	120.38
1	e8	181	VAL	C-N-CA	6.52	129.31	120.38
1	ed	92	GLU	CA-C-N	6.52	126.55	119.90
1	ed	92	GLU	C-N-CA	6.52	126.55	119.90
1	eS	159	GLU	CB-CA-C	6.52	116.62	110.17
1	eZ	145	TYR	CA-C-N	6.52	132.62	121.35
1	eZ	145	TYR	C-N-CA	6.52	132.62	121.35
1	f0	202	LEU	CA-C-O	6.52	127.46	120.55
1	f2	184	TRP	CA-C-N	6.52	129.01	120.28
1	f2	184	TRP	C-N-CA	6.52	129.01	120.28
1	fc	220	GLY	CA-C-O	6.52	126.29	118.86
1	fn	75	GLU	CA-C-O	6.52	127.33	120.42
1	fo	132	ARG	CA-C-N	6.52	130.22	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fo	132	ARG	C-N-CA	6.52	130.22	120.31
1	g6	77	ALA	O-C-N	-6.52	114.60	122.22
1	g7	197	ASP	CA-CB-CG	-6.52	106.08	112.60
1	q	132	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	W	87	HIS	CE1-NE2-CD2	-6.52	102.48	109.00
1	gu	147	PRO	CB-CA-C	6.52	119.53	111.12
1	gH	171	THR	CA-C-O	6.52	127.48	119.79
1	1M	20	LEU	O-C-N	-6.52	115.11	122.08
1	im	76	GLU	N-CA-C	6.52	118.38	111.28
1	is	42	ALA	N-CA-C	6.52	118.38	111.28
1	iu	211	LEU	CA-C-O	6.52	127.66	120.82
1	kB	57	ASN	CA-CB-CG	-6.52	106.08	112.60
1	kZ	162	ARG	NE-CZ-NH2	-6.52	113.33	119.20
1	2j	182	LYS	CA-C-O	6.52	127.46	120.55
1	2B	226	HIS	CB-CG-CD2	-6.52	122.73	131.20
1	2E	166	ASP	CA-C-N	6.52	129.01	120.28
1	2E	166	ASP	C-N-CA	6.52	129.01	120.28
1	39	107	THR	CA-CB-CG2	-6.52	99.42	110.50
1	3l	143	ARG	NH1-CZ-NH2	-6.52	110.83	119.30
1	4j	161	PHE	CA-C-N	6.52	129.54	120.29
1	4j	161	PHE	C-N-CA	6.52	129.54	120.29
1	4X	50	GLN	O-C-N	6.52	128.87	122.09
1	4Z	68	MET	CA-C-O	6.52	127.46	120.55
1	76	199	LYS	CA-C-O	-6.52	113.64	120.55
1	88	139	ASN	O-C-N	-6.52	115.36	122.07
1	8j	110	THR	CA-CB-OG1	6.52	119.38	109.60
1	8w	75	GLU	N-CA-C	6.52	118.04	111.07
1	8y	203	LYS	N-CA-C	6.52	118.38	111.28
1	95	227	LYS	CA-C-O	6.52	128.29	120.28
1	99	140	LYS	N-CA-CB	6.52	119.65	109.94
1	9G	230	VAL	CA-C-N	6.52	133.43	121.70
1	9G	230	VAL	C-N-CA	6.52	133.43	121.70
1	9L	86	VAL	CA-C-N	6.52	130.37	121.05
1	9L	86	VAL	C-N-CA	6.52	130.37	121.05
1	au	76	GLU	CA-C-N	6.52	128.91	120.44
1	au	76	GLU	C-N-CA	6.52	128.91	120.44
1	ay	226	HIS	ND1-CE1-NE2	6.52	114.92	108.40
1	aP	52	LEU	O-C-N	-6.52	115.21	122.12
1	bo	12	HIS	CG-CD2-NE2	6.52	113.72	107.20
1	c2	64	ALA	CA-C-N	6.52	129.01	120.28
1	c2	64	ALA	C-N-CA	6.52	129.01	120.28
1	1c	164	TYR	N-CA-C	6.52	119.38	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	219	GLN	N-CA-C	6.52	120.49	112.54
1	cl	176	GLN	CA-C-N	6.52	130.59	120.75
1	cl	176	GLN	C-N-CA	6.52	130.59	120.75
1	d8	13	GLN	O-C-N	-6.52	116.18	123.48
1	d8	206	GLY	O-C-N	-6.52	115.25	121.77
1	1k	36	VAL	N-CA-CB	6.52	119.40	110.54
1	dC	159	GLU	CA-C-O	-6.52	113.21	120.25
1	eY	107	THR	CA-CB-CG2	6.52	121.58	110.50
1	fc	35	GLU	CA-C-N	6.52	128.77	120.56
1	fc	35	GLU	C-N-CA	6.52	128.77	120.56
1	gb	182	LYS	N-CA-C	6.51	118.38	111.28
1	go	53	ASN	CA-C-O	-6.51	113.64	120.55
1	gz	171	THR	CA-C-N	6.51	129.54	120.29
1	gz	171	THR	C-N-CA	6.51	129.54	120.29
1	gH	112	GLN	N-CA-C	6.51	119.20	111.71
1	gR	103	ASP	CA-C-N	6.51	129.67	120.42
1	gR	103	ASP	C-N-CA	6.51	129.67	120.42
1	1G	119	THR	CA-CB-OG1	6.51	119.37	109.60
1	hl	129	ILE	N-CA-CB	6.51	118.17	110.55
1	hr	97	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	i3	58	THR	N-CA-CB	6.51	119.65	109.94
1	1N	166	ASP	N-CA-C	6.51	118.04	111.07
1	i6	115	ILE	CA-C-O	6.51	127.72	120.95
1	i7	152	ASP	CA-C-O	6.51	127.16	119.28
1	ib	36	VAL	N-CA-C	6.51	117.27	110.62
1	ib	134	ILE	CA-C-N	6.51	130.98	120.30
1	ib	134	ILE	C-N-CA	6.51	130.98	120.30
1	iB	159	GLU	CA-C-O	-6.51	114.36	120.94
1	iD	183	ASN	CA-C-N	6.51	129.54	120.29
1	iD	183	ASN	C-N-CA	6.51	129.54	120.29
1	iQ	123	PRO	O-C-N	-6.51	115.15	123.03
1	jd	193	ASN	CA-CB-CG	-6.51	106.09	112.60
1	jE	183	ASN	N-CA-C	6.51	118.38	111.28
1	jH	198	CYS	CA-C-N	6.51	129.31	120.38
1	jH	198	CYS	C-N-CA	6.51	129.31	120.38
1	kv	201	ILE	CA-C-O	6.51	127.72	120.95
1	kB	12	HIS	CE1-NE2-CD2	-6.51	102.48	109.00
1	kK	182	LYS	N-CA-CB	6.51	119.46	110.01
1	kL	164	TYR	O-C-N	-6.51	115.21	122.12
1	kM	56	LEU	N-CA-CB	6.51	120.25	110.22
1	kN	83	LEU	CB-CA-C	6.51	121.60	110.79
1	24	121	ASN	CA-C-O	-6.51	112.02	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kU	20	LEU	CA-C-O	6.51	127.66	120.82
1	l1	166	ASP	CA-C-N	6.51	129.33	120.54
1	l1	166	ASP	C-N-CA	6.51	129.33	120.54
1	ln	71	GLU	N-CA-C	6.51	118.38	111.28
1	lq	22	ALA	CA-C-N	6.51	129.30	120.44
1	lq	22	ALA	C-N-CA	6.51	129.30	120.44
1	lF	214	MET	CA-C-N	6.51	129.54	120.29
1	lF	214	MET	C-N-CA	6.51	129.54	120.29
1	2d	50	GLN	OE1-CD-NE2	-6.51	116.08	122.60
1	2C	32	PHE	O-C-N	6.51	131.34	122.48
1	2Y	109	SER	N-CA-CB	6.51	121.00	110.77
1	3j	187	GLU	N-CA-C	6.51	118.38	111.28
1	3x	178	SER	N-CA-C	6.51	118.96	110.43
1	3O	87	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	4K	12	HIS	ND1-CE1-NE2	6.51	114.92	108.40
1	4P	120	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	55	102	SER	N-CA-C	6.51	120.49	112.54
1	5e	186	THR	CA-CB-CG2	-6.51	99.42	110.50
1	5q	117	TRP	N-CA-CB	-6.51	100.54	110.12
1	5H	120	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	6e	197	ASP	O-C-N	-6.51	115.36	122.07
1	6l	143	ARG	O-C-N	-6.51	115.22	122.12
1	6o	200	THR	N-CA-C	6.51	119.21	111.33
1	6D	162	ARG	N-CA-C	6.51	118.38	111.28
1	6F	192	GLN	N-CA-C	6.51	118.38	111.28
1	6P	3	VAL	CA-C-N	6.51	130.12	120.87
1	6P	3	VAL	C-N-CA	6.51	130.12	120.87
1	7C	96	MET	O-C-N	6.51	129.03	122.12
1	7E	129	ILE	CB-CA-C	-6.51	103.35	112.14
1	7I	27	VAL	N-CA-C	6.51	116.67	110.42
1	7K	120	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	8e	97	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	8h	100	ARG	O-C-N	-6.51	115.06	122.68
1	8l	140	LYS	CA-C-N	6.51	128.77	120.56
1	8l	140	LYS	C-N-CA	6.51	128.77	120.56
1	90	16	SER	O-C-N	-6.51	114.13	121.43
1	90	99	PRO	O-C-N	-6.51	115.28	123.10
1	92	5	ASN	O-C-N	-6.51	114.94	123.28
1	9n	229	ARG	N-CA-CB	-6.51	101.05	110.56
1	9C	62	HIS	ND1-CG-CD2	6.51	112.61	106.10
1	aa	88	ALA	N-CA-C	6.51	119.81	110.10
1	12	25	LYS	N-CA-C	6.51	118.38	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aD	92	GLU	O-C-N	-6.51	113.83	121.32
1	aK	169	TYR	N-CA-C	6.51	118.38	111.28
1	bq	35	GLU	CA-C-O	6.51	126.89	119.27
1	bu	84	HIS	CA-CB-CG	-6.51	107.28	113.80
1	bA	104	ILE	N-CA-C	6.51	117.27	110.62
1	bV	66	MET	CA-C-N	6.51	128.91	120.44
1	bV	66	MET	C-N-CA	6.51	128.91	120.44
1	cQ	190	LEU	O-C-N	-6.51	115.31	122.09
1	dz	182	LYS	N-CA-C	6.51	119.20	111.71
1	dJ	62	HIS	CA-CB-CG	-6.51	107.28	113.80
1	e3	17	PRO	N-CA-C	-6.51	104.67	113.40
1	eg	197	ASP	CA-C-N	6.51	129.54	120.29
1	eg	197	ASP	C-N-CA	6.51	129.54	120.29
1	en	218	CYS	N-CA-CB	6.51	121.50	110.49
1	1s	128	GLU	N-CA-C	6.51	118.46	111.36
1	eS	201	ILE	CA-C-N	6.51	129.54	120.29
1	eS	201	ILE	C-N-CA	6.51	129.54	120.29
1	fy	84	HIS	CA-CB-CG	-6.51	107.29	113.80
1	fA	86	VAL	CA-C-O	-6.51	114.88	121.59
1	1z	154	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	fP	130	TYR	CA-C-N	6.51	129.01	120.28
1	fP	130	TYR	C-N-CA	6.51	129.01	120.28
1	fY	11	VAL	N-CA-CB	6.51	118.32	110.31
1	g6	63	GLN	OE1-CD-NE2	6.51	129.11	122.60
1	g6	181	VAL	CB-CA-C	-6.51	103.35	112.14
1	w	27	VAL	O-C-N	-6.51	114.44	121.80
1	A	11	VAL	O-C-N	-6.51	116.03	123.00
1	O	203	LYS	CA-C-O	6.51	127.46	120.55
1	9	77	ALA	N-CA-C	6.51	118.38	111.28
1	gs	84	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	gR	221	VAL	CA-C-O	6.51	128.29	120.74
1	h8	41	SER	N-CA-C	6.51	118.38	111.28
1	hl	120	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	hr	154	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	hs	164	TYR	CA-C-O	-6.51	113.65	120.55
1	1K	111	LEU	N-CA-C	6.51	118.38	111.28
1	hK	184	TRP	N-CA-C	6.51	118.38	111.28
1	hQ	64	ALA	CA-C-N	6.51	128.91	120.44
1	hQ	64	ALA	C-N-CA	6.51	128.91	120.44
1	1Q	53	ASN	CA-CB-CG	-6.51	106.09	112.60
1	jd	229	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	jr	74	ASN	CA-CB-CG	6.51	119.11	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ki	98	GLU	CA-C-O	-6.51	113.60	120.70
1	3a	24	VAL	O-C-N	6.51	128.45	121.94
1	3S	143	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	3T	217	ALA	CA-C-N	6.51	131.38	122.07
1	3T	217	ALA	C-N-CA	6.51	131.38	122.07
1	4n	12	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	4E	188	THR	N-CA-C	6.51	118.93	111.11
1	4N	162	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	59	69	LEU	CA-C-N	6.51	129.01	120.28
1	59	69	LEU	C-N-CA	6.51	129.01	120.28
1	5g	78	ALA	N-CA-C	6.51	118.38	111.28
1	5h	58	THR	CA-C-N	6.51	130.65	121.66
1	5h	58	THR	C-N-CA	6.51	130.65	121.66
1	5q	10	MET	O-C-N	-6.51	114.80	122.81
1	5w	87	HIS	CG-CD2-NE2	6.51	113.71	107.20
1	6t	112	GLN	N-CA-C	6.51	118.38	111.28
1	6G	152	ASP	CA-CB-CG	-6.51	106.09	112.60
1	7x	53	ASN	CA-CB-CG	-6.51	106.09	112.60
1	7H	124	ILE	O-C-N	-6.51	116.93	121.55
1	7L	163	ASP	CA-C-N	6.51	129.33	120.54
1	7L	163	ASP	C-N-CA	6.51	129.33	120.54
1	8N	176	GLN	N-CA-CB	6.51	121.50	110.49
1	8Y	4	GLN	CA-C-N	6.51	129.89	120.38
1	8Y	4	GLN	C-N-CA	6.51	129.89	120.38
1	9F	53	ASN	N-CA-C	6.51	118.38	111.28
1	Z	129	ILE	O-C-N	-6.51	115.53	121.91
1	a1	115	ILE	CA-C-N	6.51	127.35	119.99
1	a1	115	ILE	C-N-CA	6.51	127.35	119.99
1	af	37	ILE	O-C-N	-6.51	113.67	121.10
1	aj	197	ASP	N-CA-C	6.51	118.04	111.07
1	13	48	THR	N-CA-CB	6.51	118.77	109.78
1	aZ	76	GLU	CA-C-N	6.51	129.01	120.28
1	aZ	76	GLU	C-N-CA	6.51	129.01	120.28
1	cd	159	GLU	CA-C-N	6.51	126.53	119.89
1	cd	159	GLU	C-N-CA	6.51	126.53	119.89
1	d2	101	GLY	O-C-N	-6.51	115.68	122.13
1	d6	62	HIS	ND1-CG-CD2	6.51	112.61	106.10
1	dU	66	MET	N-CA-C	6.51	118.46	111.36
1	es	230	VAL	CA-C-N	6.51	133.42	121.70
1	es	230	VAL	C-N-CA	6.51	133.42	121.70
1	eR	142	VAL	N-CA-C	6.51	119.19	111.05
1	eZ	143	ARG	NE-CZ-NH2	-6.51	113.34	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1C	18	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	gp	200	THR	N-CA-CB	6.51	119.45	110.01
1	gE	48	THR	N-CA-CB	6.51	118.77	109.78
1	gL	186	THR	O-C-N	-6.51	115.36	122.07
1	he	48	THR	CA-C-O	-6.51	113.86	120.96
1	hJ	130	TYR	CB-CG-CD1	6.51	130.57	120.80
1	iP	221	VAL	N-CA-C	6.51	118.04	110.62
1	iW	96	MET	CA-C-N	6.51	133.98	121.54
1	iW	96	MET	C-N-CA	6.51	133.98	121.54
1	j1	202	LEU	CA-C-N	6.51	129.01	120.28
1	j1	202	LEU	C-N-CA	6.51	129.01	120.28
1	km	64	ALA	CA-C-O	6.51	127.47	119.79
1	kx	68	MET	N-CA-C	6.51	118.38	111.28
1	kJ	168	PHE	CA-C-O	-6.51	113.65	120.55
1	l4	107	THR	N-CA-C	6.51	118.46	111.36
1	le	156	GLY	CA-C-N	6.51	126.14	119.56
1	le	156	GLY	C-N-CA	6.51	126.14	119.56
1	li	15	ILE	N-CA-C	6.51	118.16	109.37
1	lx	174	ALA	CA-C-O	6.51	127.45	120.55
1	lB	162	ARG	CB-CA-C	6.51	121.92	110.85
1	29	7	GLN	OE1-CD-NE2	-6.51	116.09	122.60
1	2c	217	ALA	N-CA-C	6.51	120.16	110.52
1	2G	172	LEU	O-C-N	-6.51	115.36	122.07
1	2M	27	VAL	N-CA-C	6.51	116.67	110.42
1	3j	124	ILE	N-CA-CB	6.51	119.59	111.39
1	3x	123	PRO	N-CA-CB	6.51	109.02	103.35
1	3D	113	GLU	O-C-N	-6.51	115.22	122.12
1	3Y	59	VAL	N-CA-C	6.51	116.65	110.53
1	47	220	GLY	N-CA-C	-6.51	106.46	114.92
1	49	199	LYS	CA-C-N	6.51	128.91	120.44
1	49	199	LYS	C-N-CA	6.51	128.91	120.44
1	4b	143	ARG	CA-C-N	6.51	128.90	120.44
1	4b	143	ARG	C-N-CA	6.51	128.90	120.44
1	4s	120	HIS	O-C-N	-6.51	113.93	122.59
1	4W	180	GLU	O-C-N	-6.51	115.36	122.07
1	50	208	ALA	CA-C-O	6.51	127.17	119.48
1	5i	228	ALA	CA-C-O	6.51	128.30	120.81
1	5C	211	LEU	CA-C-N	6.51	129.33	120.54
1	5C	211	LEU	C-N-CA	6.51	129.33	120.54
1	5G	64	ALA	CA-C-N	6.51	128.91	120.44
1	5G	64	ALA	C-N-CA	6.51	128.91	120.44
1	5Q	58	THR	N-CA-C	6.51	119.21	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Q	208	ALA	CA-C-N	6.51	130.12	120.87
1	5Q	208	ALA	C-N-CA	6.51	130.12	120.87
1	60	86	VAL	CA-C-O	6.51	128.51	121.67
1	6u	228	ALA	N-CA-C	6.51	119.20	111.71
1	6w	130	TYR	CA-C-N	6.51	128.90	120.44
1	6w	130	TYR	C-N-CA	6.51	128.90	120.44
1	6F	58	THR	O-C-N	-6.51	114.53	122.34
1	7R	22	ALA	N-CA-C	6.51	118.04	111.07
1	7S	50	GLN	OE1-CD-NE2	-6.51	116.09	122.60
1	85	110	THR	CA-CB-OG1	6.51	119.37	109.60
1	87	141	ILE	N-CA-CB	6.51	118.17	110.55
1	8m	132	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	8o	77	ALA	O-C-N	-6.51	114.73	122.15
1	8z	213	GLU	N-CA-C	6.51	119.20	111.71
1	8G	58	THR	O-C-N	-6.51	112.92	122.43
1	8N	141	ILE	CA-C-N	6.51	129.38	120.46
1	8N	141	ILE	C-N-CA	6.51	129.38	120.46
1	8X	203	LYS	N-CA-C	6.51	120.96	112.89
1	94	11	VAL	N-CA-CB	6.51	119.55	110.56
1	9d	142	VAL	N-CA-C	6.51	116.67	110.42
1	9Z	205	LEU	O-C-N	-6.51	115.36	122.07
1	a3	164	TYR	N-CA-C	6.51	118.92	111.11
1	ad	62	HIS	ND1-CG-CD2	6.51	112.61	106.10
1	11	117	TRP	N-CA-CB	-6.51	100.57	110.01
1	at	126	VAL	N-CA-C	6.51	116.67	110.42
1	aC	173	ARG	CA-C-N	6.51	128.90	120.44
1	aC	173	ARG	C-N-CA	6.51	128.90	120.44
1	aK	184	TRP	CA-C-N	6.51	129.00	120.28
1	aK	184	TRP	C-N-CA	6.51	129.00	120.28
1	b7	22	ALA	N-CA-C	6.51	118.04	111.07
1	bS	12	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	bW	146	SER	CA-C-N	6.51	127.98	119.84
1	bW	146	SER	C-N-CA	6.51	127.98	119.84
1	cI	132	ARG	N-CA-C	6.51	119.21	111.33
1	cO	65	ALA	N-CA-C	6.51	118.38	111.28
1	cY	141	ILE	CA-C-O	-6.51	113.44	120.47
1	dr	69	LEU	O-C-N	-6.51	115.36	122.07
1	1o	224	PRO	N-CA-CB	6.51	110.09	103.25
1	ei	39	MET	N-CA-CB	6.51	119.45	110.01
1	eC	224	PRO	N-CA-C	6.51	121.44	111.15
1	eZ	45	GLU	N-CA-C	6.51	119.20	111.71
1	eZ	136	LEU	CA-C-O	6.51	127.32	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f8	190	LEU	CA-C-N	6.51	129.38	120.46
1	f8	190	LEU	C-N-CA	6.51	129.38	120.46
1	1v	185	MET	O-C-N	-6.51	115.22	122.12
1	fJ	171	THR	CA-C-N	6.51	129.01	120.28
1	fJ	171	THR	C-N-CA	6.51	129.01	120.28
1	1A	68	MET	CA-C-N	6.51	129.30	120.44
1	1A	68	MET	C-N-CA	6.51	129.30	120.44
1	fY	216	THR	CA-C-O	6.51	127.32	120.42
1	g3	28	GLU	N-CA-C	6.51	119.20	111.71
1	g3	186	THR	N-CA-CB	6.51	119.45	110.01
1	z	26	VAL	O-C-N	-6.51	115.43	121.94
1	E	105	ALA	CA-C-O	6.51	127.46	120.10
1	N	50	GLN	CA-C-N	6.51	129.01	120.28
1	N	50	GLN	C-N-CA	6.51	129.01	120.28
1	g9	42	ALA	O-C-N	-6.51	115.22	122.12
1	gf	54	THR	CA-C-O	6.51	127.32	120.42
1	gr	124	ILE	CA-C-N	6.51	127.98	119.84
1	gr	124	ILE	C-N-CA	6.51	127.98	119.84
1	gL	167	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	1F	191	VAL	N-CA-C	-6.51	104.15	113.07
1	hH	13	GLN	OE1-CD-NE2	-6.51	116.09	122.60
1	ic	115	ILE	CB-CA-C	-6.51	103.55	111.88
1	ik	104	ILE	CA-C-O	-6.51	113.95	120.85
1	js	81	ASP	CA-C-N	6.51	128.90	120.44
1	js	81	ASP	C-N-CA	6.51	128.90	120.44
1	jE	12	HIS	CG-CD2-NE2	6.51	113.71	107.20
1	ku	173	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	ky	220	GLY	N-CA-C	6.51	124.31	114.61
1	kY	101	GLY	N-CA-C	6.51	120.77	112.83
1	ll	229	ARG	CD-NE-CZ	-6.51	115.29	124.40
1	lo	21	ASN	O-C-N	-6.51	115.36	122.07
1	lq	88	ALA	N-CA-C	6.51	119.91	110.28
1	lO	144	MET	N-CA-CB	6.51	119.64	109.94
1	2c	150	ILE	O-C-N	-6.51	115.83	122.14
1	2e	195	ASN	CA-C-N	6.51	127.98	119.84
1	2e	195	ASN	C-N-CA	6.51	127.98	119.84
1	3f	64	ALA	N-CA-C	-6.51	104.03	112.23
1	3Z	32	PHE	N-CA-CB	6.51	121.33	110.92
1	44	82	ARG	NE-CZ-NH2	-6.51	113.34	119.20
1	4b	12	HIS	CA-C-N	6.51	132.18	123.00
1	4b	12	HIS	C-N-CA	6.51	132.18	123.00
1	4n	111	LEU	N-CA-C	-6.51	104.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4z	195	ASN	CB-CA-C	-6.51	98.79	109.27
1	4P	183	ASN	CA-C-O	6.51	127.45	120.55
1	4V	135	ILE	CB-CA-C	6.51	120.30	111.97
1	5c	181	VAL	O-C-N	-6.51	115.53	121.91
1	5k	164	TYR	CA-C-N	6.51	129.38	120.46
1	5k	164	TYR	C-N-CA	6.51	129.38	120.46
1	5l	17	PRO	O-C-N	-6.51	115.15	122.18
1	5D	132	ARG	CA-C-N	6.51	129.33	120.54
1	5D	132	ARG	C-N-CA	6.51	129.33	120.54
1	5H	195	ASN	CA-C-N	6.51	126.01	119.24
1	5H	195	ASN	C-N-CA	6.51	126.01	119.24
1	5M	143	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	6c	8	GLY	CA-C-O	-6.51	114.64	121.67
1	6s	186	THR	N-CA-C	6.51	118.46	111.36
1	6w	142	VAL	N-CA-C	6.51	116.67	110.42
1	6I	82	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	6K	72	THR	CA-C-N	6.51	128.76	120.56
1	6K	72	THR	C-N-CA	6.51	128.76	120.56
1	6X	115	ILE	CB-CA-C	6.51	120.30	111.97
1	77	26	VAL	N-CA-C	6.51	117.26	110.62
1	7d	97	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	7k	82	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	7u	195	ASN	N-CA-C	6.51	117.91	109.64
1	7y	130	TYR	CA-C-O	6.51	127.66	120.82
1	7B	162	ARG	O-C-N	-6.51	115.22	122.12
1	7M	173	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	7R	50	GLN	N-CA-C	6.51	118.38	111.28
1	84	196	PRO	N-CA-CB	-6.51	96.41	103.25
1	8k	106	GLY	CA-C-N	6.51	129.53	120.29
1	8k	106	GLY	C-N-CA	6.51	129.53	120.29
1	8l	90	PRO	N-CA-CB	-6.51	96.42	103.25
1	8m	99	PRO	N-CA-CB	6.51	108.76	103.36
1	8x	50	GLN	O-C-N	-6.51	114.73	122.15
1	8N	196	PRO	O-C-N	-6.51	113.85	122.64
1	8P	166	ASP	CB-CA-C	6.51	121.22	110.81
1	8P	220	GLY	O-C-N	-6.51	114.24	122.70
1	97	103	ASP	CA-C-O	6.51	127.47	120.24
1	9h	57	ASN	CA-C-N	6.51	129.00	120.28
1	9h	57	ASN	C-N-CA	6.51	129.00	120.28
1	9k	156	GLY	O-C-N	-6.51	115.26	121.77
1	9s	141	ILE	CB-CA-C	-6.51	103.35	112.14
1	a3	132	ARG	NE-CZ-NH2	-6.51	113.34	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a3	162	ARG	CG-CD-NE	-6.51	97.68	112.00
1	aq	167	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	b4	100	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	b8	80	TRP	N-CA-C	6.51	118.38	111.28
1	17	167	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	bC	121	ASN	O-C-N	-6.51	112.42	121.47
1	bE	154	ARG	NE-CZ-NH2	-6.51	113.34	119.20
1	bX	110	THR	CB-CA-C	6.51	120.50	109.50
1	cx	171	THR	N-CA-CB	6.51	119.69	110.12
1	d4	198	CYS	O-C-N	-6.51	115.06	122.09
1	dF	26	VAL	N-CA-CB	6.51	118.17	110.55
1	dG	225	GLY	CA-C-O	-6.51	111.78	119.72
1	dV	146	SER	CA-C-O	-6.51	113.29	119.80
1	eh	226	HIS	ND1-CE1-NE2	6.51	114.91	108.40
1	el	127	GLY	CA-C-N	6.51	129.53	120.29
1	el	127	GLY	C-N-CA	6.51	129.53	120.29
1	eB	199	LYS	N-CA-CB	6.51	119.69	110.12
1	eL	165	VAL	N-CA-C	6.51	117.30	110.72
1	eL	169	TYR	N-CA-C	6.51	118.38	111.28
1	eR	208	ALA	CA-C-N	6.51	130.06	120.95
1	eR	208	ALA	C-N-CA	6.51	130.06	120.95
1	fd	24	VAL	N-CA-CB	-6.51	102.93	110.55
1	fm	84	HIS	N-CA-CB	6.51	117.91	110.03
1	fz	80	TRP	N-CA-C	6.51	119.20	111.71
1	fU	131	LYS	CA-C-N	6.51	128.90	120.44
1	fU	131	LYS	C-N-CA	6.51	128.90	120.44
1	b	15	ILE	CA-CB-CG1	6.51	121.47	110.40
1	1	169	TYR	N-CA-CB	6.51	119.69	110.12
1	m	72	THR	N-CA-C	-6.51	104.11	111.14
1	2	147	PRO	CB-CA-C	6.51	122.30	111.56
1	v	223	GLY	O-C-N	6.51	128.28	121.77
1	M	137	GLY	CA-C-O	-6.51	113.97	121.00
1	gE	144	MET	N-CA-C	6.51	119.37	111.82
1	h0	92	GLU	CA-C-N	6.51	127.97	119.84
1	h0	92	GLU	C-N-CA	6.51	127.97	119.84
1	ha	134	ILE	CA-C-O	-6.51	114.27	121.17
1	hI	190	LEU	CA-C-O	6.51	127.65	120.82
1	i3	10	MET	CA-C-O	6.51	127.31	120.54
1	ia	40	PHE	O-C-N	-6.51	115.22	122.12
1	jc	183	ASN	CA-C-N	6.51	129.29	120.38
1	jc	183	ASN	C-N-CA	6.51	129.29	120.38
1	kt	196	PRO	N-CD-CG	6.51	112.96	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lv	59	VAL	N-CA-CB	6.51	119.31	111.31
1	lQ	228	ALA	N-CA-C	6.51	119.67	110.23
1	2t	65	ALA	CA-C-N	6.51	129.00	120.28
1	2t	65	ALA	C-N-CA	6.51	129.00	120.28
1	2H	39	MET	CA-C-N	6.51	128.90	120.44
1	2H	39	MET	C-N-CA	6.51	128.90	120.44
1	3C	182	LYS	CA-C-N	6.51	128.90	120.44
1	3C	182	LYS	C-N-CA	6.51	128.90	120.44
1	4c	39	MET	N-CA-C	6.51	118.03	111.07
1	4E	130	TYR	N-CA-C	6.51	118.37	111.28
1	5O	137	GLY	CA-C-N	6.51	129.00	120.28
1	5O	137	GLY	C-N-CA	6.51	129.00	120.28
1	6R	202	LEU	CA-C-N	6.51	129.00	120.28
1	6R	202	LEU	C-N-CA	6.51	129.00	120.28
1	7L	38	PRO	O-C-N	6.51	131.43	122.64
1	95	154	ARG	NE-CZ-NH1	6.51	128.01	121.50
1	9z	79	GLU	N-CA-C	6.51	118.37	111.28
1	aK	144	MET	CA-C-N	6.51	133.45	122.65
1	aK	144	MET	C-N-CA	6.51	133.45	122.65
1	bL	21	ASN	O-C-N	-6.51	115.22	122.12
1	ca	143	ARG	N-CA-C	6.51	118.37	111.28
1	cd	215	MET	CA-C-N	6.51	129.00	120.28
1	cd	215	MET	C-N-CA	6.51	129.00	120.28
1	cl	97	ARG	NH1-CZ-NH2	-6.51	110.84	119.30
1	cu	83	LEU	N-CA-C	6.51	118.03	111.07
1	dh	5	ASN	CA-CB-CG	6.51	119.11	112.60
1	O	200	THR	CA-C-N	6.51	128.76	120.56
1	O	200	THR	C-N-CA	6.51	128.76	120.56
1	gm	215	MET	CA-C-O	-6.51	111.38	119.38
1	1D	11	VAL	CB-CA-C	6.51	120.26	110.63
1	gt	199	LYS	O-C-N	6.51	129.02	122.12
1	gW	173	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	1J	211	LEU	O-C-N	-6.51	115.22	122.12
1	hr	167	ARG	N-CA-C	6.51	118.03	111.07
1	hC	98	GLU	N-CA-C	6.51	118.09	109.83
1	hE	199	LYS	N-CA-C	6.51	118.92	111.11
1	hM	183	ASN	CA-CB-CG	-6.51	106.09	112.60
1	1M	82	ARG	CA-C-N	6.51	129.00	120.28
1	1M	82	ARG	C-N-CA	6.51	129.00	120.28
1	hV	135	ILE	CA-C-N	6.51	129.00	120.28
1	hV	135	ILE	C-N-CA	6.51	129.00	120.28
1	im	42	ALA	N-CA-C	6.51	118.37	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j1	18	ARG	NH1-CZ-NH2	-6.51	110.84	119.30
1	j7	19	THR	CA-C-O	-6.51	113.99	120.82
1	1U	68	MET	CA-C-N	6.51	128.90	120.44
1	1U	68	MET	C-N-CA	6.51	128.90	120.44
1	jn	34	PRO	N-CA-C	6.51	122.30	113.84
1	jD	72	THR	CA-CB-CG2	6.51	121.56	110.50
1	jF	57	ASN	OD1-CG-ND2	-6.51	116.09	122.60
1	jH	195	ASN	CA-CB-CG	6.51	119.11	112.60
1	jW	227	LYS	CA-C-N	6.51	130.39	120.82
1	jW	227	LYS	C-N-CA	6.51	130.39	120.82
1	kr	144	MET	N-CA-C	6.51	118.03	111.07
1	kv	26	VAL	N-CA-C	6.51	117.26	110.62
1	kJ	96	MET	N-CA-C	6.51	119.12	110.53
1	l0	120	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
1	l1	34	PRO	O-C-N	-6.51	113.86	122.64
1	lf	60	GLY	CA-C-N	6.51	127.88	120.53
1	lf	60	GLY	C-N-CA	6.51	127.88	120.53
1	lo	31	ALA	N-CA-C	6.51	119.54	108.67
1	lu	63	GLN	N-CA-C	6.51	119.37	111.82
1	lz	192	GLN	O-C-N	-6.51	115.22	122.12
1	lI	227	LYS	N-CA-C	6.51	118.03	111.07
1	2j	96	MET	CA-C-N	6.51	130.06	120.95
1	2j	96	MET	C-N-CA	6.51	130.06	120.95
1	2s	130	TYR	O-C-N	-6.51	115.37	122.07
1	3o	219	GLN	N-CA-CB	6.51	119.73	109.71
1	41	199	LYS	N-CA-CB	-6.51	100.53	110.16
1	44	9	GLN	O-C-N	-6.51	115.92	123.27
1	4q	151	LEU	CA-C-O	6.51	127.38	119.38
1	4I	151	LEU	O-C-N	6.51	128.77	122.07
1	4V	139	ASN	CA-CB-CG	-6.51	106.09	112.60
1	59	137	GLY	O-C-N	-6.51	115.88	122.19
1	5k	130	TYR	CA-C-O	6.51	127.45	120.55
1	5C	84	HIS	N-CA-C	6.51	119.06	109.62
1	5M	192	GLN	N-CA-C	6.51	118.37	111.28
1	6t	41	SER	O-C-N	-6.51	115.37	122.07
1	6U	190	LEU	N-CA-C	6.51	122.04	111.37
1	76	206	GLY	N-CA-C	6.51	125.61	112.34
1	79	113	GLU	CA-C-N	6.51	129.00	120.28
1	79	113	GLU	C-N-CA	6.51	129.00	120.28
1	7c	153	ILE	N-CA-C	6.51	117.97	109.58
1	7O	77	ALA	CA-C-N	6.51	129.29	120.38
1	7O	77	ALA	C-N-CA	6.51	129.29	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8a	145	TYR	CA-C-O	6.51	127.63	119.95
1	8m	90	PRO	CB-CA-C	6.51	119.56	111.23
1	8S	104	ILE	CA-C-N	6.51	129.00	120.28
1	8S	104	ILE	C-N-CA	6.51	129.00	120.28
1	8Y	77	ALA	O-C-N	-6.51	114.73	122.15
1	8Y	188	THR	CB-CA-C	-6.51	102.74	114.52
1	9p	227	LYS	CA-C-N	6.51	130.57	120.75
1	9p	227	LYS	C-N-CA	6.51	130.57	120.75
1	a4	123	PRO	N-CA-C	6.51	121.87	111.26
1	ag	159	GLU	CB-CG-CD	6.51	123.66	112.60
1	ah	229	ARG	NE-CZ-NH2	-6.51	113.34	119.20
1	b2	128	GLU	CA-C-N	6.51	128.76	120.56
1	b2	128	GLU	C-N-CA	6.51	128.76	120.56
1	b3	41	SER	CA-C-N	6.51	129.53	120.29
1	b3	41	SER	C-N-CA	6.51	129.53	120.29
1	b3	177	ALA	CA-C-N	6.51	129.95	120.71
1	b3	177	ALA	C-N-CA	6.51	129.95	120.71
1	b5	74	ASN	CA-CB-CG	6.51	119.11	112.60
1	b8	36	VAL	N-CA-C	6.51	117.26	110.62
1	18	172	LEU	O-C-N	-6.51	115.22	122.12
1	bB	165	VAL	N-CA-C	6.51	118.04	110.62
1	ch	217	ALA	N-CA-CB	6.51	121.17	110.69
1	ci	178	SER	O-C-N	-6.51	113.94	122.59
1	cj	53	ASN	OD1-CG-ND2	-6.51	116.09	122.60
1	cq	203	LYS	N-CA-C	6.51	118.03	111.07
1	cA	223	GLY	N-CA-C	6.51	125.61	112.34
1	d7	160	PRO	CA-C-N	6.51	129.00	120.28
1	d7	160	PRO	C-N-CA	6.51	129.00	120.28
1	e1	200	THR	O-C-N	-6.51	115.12	122.08
1	ef	87	HIS	CB-CG-CD2	-6.51	122.74	131.20
1	eg	167	ARG	NH1-CZ-NH2	-6.51	110.84	119.30
1	eo	202	LEU	N-CA-C	6.51	119.19	111.71
1	eM	173	ARG	CA-C-N	6.51	130.20	120.31
1	eM	173	ARG	C-N-CA	6.51	130.20	120.31
1	eY	198	CYS	N-CA-CB	-6.51	100.20	110.28
1	fv	173	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	fB	163	ASP	CB-CA-C	-6.51	99.79	110.85
1	fB	166	ASP	CA-CB-CG	6.51	119.11	112.60
1	fE	9	GLN	OE1-CD-NE2	-6.51	116.09	122.60
1	1z	110	THR	CA-C-N	6.51	128.90	120.44
1	1z	110	THR	C-N-CA	6.51	128.90	120.44
1	fT	130	TYR	CA-C-O	6.51	127.65	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	53	ASN	CA-C-N	6.51	129.32	120.54
1	p	53	ASN	C-N-CA	6.51	129.32	120.54
1	w	162	ARG	NE-CZ-NH2	6.51	125.06	119.20
1	B	79	GLU	CA-C-N	6.51	129.00	120.28
1	B	79	GLU	C-N-CA	6.51	129.00	120.28
1	I	198	CYS	CA-C-N	6.51	128.90	120.44
1	I	198	CYS	C-N-CA	6.51	128.90	120.44
1	L	103	ASP	CA-CB-CG	6.51	119.11	112.60
1	g8	137	GLY	CA-C-N	6.50	129.00	120.28
1	g8	137	GLY	C-N-CA	6.50	129.00	120.28
1	gP	218	CYS	N-CA-C	6.50	122.60	113.56
1	h1	149	SER	O-C-N	-6.50	114.71	123.10
1	hm	37	ILE	CA-C-N	6.50	126.27	119.05
1	hm	37	ILE	C-N-CA	6.50	126.27	119.05
1	hp	18	ARG	CA-C-N	6.50	128.90	120.44
1	hp	18	ARG	C-N-CA	6.50	128.90	120.44
1	hW	27	VAL	N-CA-C	6.50	117.29	110.72
1	iN	214	MET	N-CA-C	6.50	118.45	111.36
1	iQ	75	GLU	O-C-N	-6.50	115.22	122.12
1	jn	93	PRO	N-CA-C	6.50	125.87	112.47
1	kg	144	MET	CA-C-O	6.50	126.92	119.18
1	ky	154	ARG	NE-CZ-NH2	-6.50	113.34	119.20
1	kA	46	GLY	N-CA-C	6.50	124.30	115.32
1	l9	40	PHE	CA-C-O	6.50	127.45	120.55
1	lv	210	THR	O-C-N	-6.50	115.37	122.79
1	lR	33	SER	CA-C-O	-6.50	113.58	120.28
1	2c	226	HIS	CB-CG-CD2	-6.50	122.74	131.20
1	2F	153	ILE	CA-C-O	6.50	128.69	120.75
1	2Q	117	TRP	N-CA-C	6.50	118.37	111.28
1	3e	169	TYR	N-CA-CB	6.50	119.68	110.12
1	4A	45	GLU	N-CA-C	6.50	119.46	110.35
1	53	226	HIS	N-CA-CB	6.50	120.77	110.23
1	5F	24	VAL	CA-C-O	6.50	128.27	121.05
1	5T	194	ALA	O-C-N	-6.50	115.58	123.19
1	6g	223	GLY	CA-C-N	6.50	126.53	119.89
1	6g	223	GLY	C-N-CA	6.50	126.53	119.89
1	7b	177	ALA	CA-C-O	6.50	128.19	121.23
1	7R	226	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	7S	26	VAL	O-C-N	6.50	128.64	121.94
1	8e	71	GLU	CA-C-N	6.50	128.90	120.44
1	8e	71	GLU	C-N-CA	6.50	128.90	120.44
1	8L	187	GLU	N-CA-C	6.50	121.42	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9V	109	SER	O-C-N	-6.50	114.95	122.89
1	9Y	143	ARG	O-C-N	-6.50	115.37	122.07
1	a5	92	GLU	N-CA-C	6.50	122.40	113.16
1	cN	116	GLY	N-CA-C	6.50	120.36	112.49
1	cP	105	ALA	N-CA-CB	-6.50	99.48	110.41
1	dx	82	ARG	NE-CZ-NH2	-6.50	113.34	119.20
1	dS	53	ASN	OD1-CG-ND2	-6.50	116.09	122.60
1	ef	9	GLN	OE1-CD-NE2	6.50	129.10	122.60
1	eG	174	ALA	N-CA-C	6.50	118.03	111.07
1	eZ	145	TYR	O-C-N	-6.50	114.21	122.34
1	eZ	206	GLY	O-C-N	-6.50	115.27	121.77
1	f7	82	ARG	CA-C-N	6.50	129.32	120.54
1	f7	82	ARG	C-N-CA	6.50	129.32	120.54
1	fx	152	ASP	CA-CB-CG	6.50	119.11	112.60
1	fP	120	HIS	O-C-N	-6.50	115.37	122.79
1	g0	136	LEU	CA-C-N	6.50	127.16	119.94
1	g0	136	LEU	C-N-CA	6.50	127.16	119.94
1	gb	180	GLU	CA-C-O	6.50	127.45	119.97
1	gw	70	LYS	CA-C-O	6.50	127.44	120.55
1	gB	16	SER	N-CA-C	6.50	118.09	109.83
1	gO	18	ARG	CD-NE-CZ	6.50	133.50	124.40
1	gS	54	THR	CA-C-N	6.50	129.23	120.65
1	gS	54	THR	C-N-CA	6.50	129.23	120.65
1	hq	12	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	hD	13	GLN	CA-C-N	6.50	130.10	120.87
1	hD	13	GLN	C-N-CA	6.50	130.10	120.87
1	hD	144	MET	N-CA-C	6.50	118.37	111.28
1	hM	112	GLN	N-CA-C	6.50	118.37	111.28
1	i3	18	ARG	CA-C-N	6.50	129.00	120.28
1	i3	18	ARG	C-N-CA	6.50	129.00	120.28
1	ia	84	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	iN	229	ARG	N-CA-C	6.50	119.66	110.23
1	iT	15	ILE	O-C-N	-6.50	115.05	122.72
1	j8	220	GLY	N-CA-C	6.50	122.03	114.16
1	jl	10	MET	CG-SD-CE	-6.50	86.59	100.90
1	jT	12	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	jX	56	LEU	CA-C-N	6.50	129.00	120.28
1	jX	56	LEU	C-N-CA	6.50	129.00	120.28
1	kb	4	GLN	CB-CA-C	6.50	120.41	109.48
1	ky	170	LYS	CA-C-N	6.50	129.00	120.28
1	ky	170	LYS	C-N-CA	6.50	129.00	120.28
1	kH	9	GLN	N-CA-C	6.50	118.72	110.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	29	124	ILE	CB-CA-C	6.50	118.33	110.85
1	lC	50	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	2m	21	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	2w	177	ALA	N-CA-C	6.50	118.95	110.43
1	3m	100	ARG	N-CA-CB	-6.50	101.01	110.70
1	3y	188	THR	O-C-N	-6.50	114.28	121.76
1	3W	191	VAL	N-CA-C	6.50	117.25	110.62
1	48	207	PRO	CA-C-N	6.50	128.99	120.28
1	48	207	PRO	C-N-CA	6.50	128.99	120.28
1	4a	6	LEU	O-C-N	-6.50	114.51	122.25
1	4e	96	MET	CA-C-N	6.50	130.10	120.87
1	4e	96	MET	C-N-CA	6.50	130.10	120.87
1	4g	103	ASP	CA-C-N	6.50	129.37	120.46
1	4g	103	ASP	C-N-CA	6.50	129.37	120.46
1	4B	210	THR	CA-C-N	6.50	128.99	120.28
1	4B	210	THR	C-N-CA	6.50	128.99	120.28
1	4O	201	ILE	O-C-N	-6.50	115.14	121.90
1	4P	59	VAL	CA-C-O	6.50	128.67	121.13
1	4R	77	ALA	N-CA-C	6.50	118.37	111.28
1	54	129	ILE	CB-CA-C	-6.50	103.65	111.97
1	5c	64	ALA	CA-C-O	-6.50	113.53	120.42
1	5d	90	PRO	N-CA-C	6.50	125.87	112.47
1	5H	29	GLU	N-CA-C	6.50	119.36	111.82
1	5M	74	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	6g	14	ALA	CA-C-N	6.50	133.68	121.97
1	6g	14	ALA	C-N-CA	6.50	133.68	121.97
1	6j	128	GLU	N-CA-C	6.50	118.37	111.28
1	6u	4	GLN	N-CA-C	6.50	119.19	110.35
1	6D	159	GLU	CB-CA-C	6.50	117.14	109.47
1	6H	46	GLY	CA-C-N	6.50	129.94	120.71
1	6H	46	GLY	C-N-CA	6.50	129.94	120.71
1	6K	16	SER	N-CA-C	6.50	117.99	109.93
1	83	62	HIS	CA-CB-CG	6.50	120.30	113.80
1	8j	132	ARG	CA-C-N	6.50	128.99	120.28
1	8j	132	ARG	C-N-CA	6.50	128.99	120.28
1	8T	126	VAL	CA-C-N	6.50	128.48	120.22
1	8T	126	VAL	C-N-CA	6.50	128.48	120.22
1	98	113	GLU	CA-C-N	6.50	129.83	120.79
1	98	113	GLU	C-N-CA	6.50	129.83	120.79
1	9j	84	HIS	ND1-CE1-NE2	6.50	114.90	108.40
1	9J	143	ARG	N-CA-CB	6.50	119.78	110.16
1	9P	9	GLN	CA-C-O	6.50	128.34	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Q	77	ALA	O-C-N	-6.50	115.23	122.12
1	Z	222	GLY	CA-C-N	6.50	131.59	121.64
1	Z	222	GLY	C-N-CA	6.50	131.59	121.64
1	a3	69	LEU	CB-CA-C	6.50	121.58	110.79
1	10	207	PRO	N-CA-C	-6.50	107.18	114.92
1	aG	229	ARG	CB-CA-C	6.50	121.47	109.70
1	aK	77	ALA	O-C-N	-6.50	114.73	122.15
1	bk	134	ILE	N-CA-C	6.50	116.64	110.53
1	18	157	PRO	N-CA-CB	6.50	110.08	103.25
1	18	164	TYR	CA-C-N	6.50	129.65	120.42
1	18	164	TYR	C-N-CA	6.50	129.65	120.42
1	c1	154	ARG	CA-C-N	6.50	130.07	120.90
1	c1	154	ARG	C-N-CA	6.50	130.07	120.90
1	c2	28	GLU	CA-C-O	6.50	127.40	120.70
1	c5	204	ALA	CB-CA-C	-6.50	98.80	110.70
1	cT	125	PRO	CA-C-N	6.50	129.37	120.46
1	cT	125	PRO	C-N-CA	6.50	129.37	120.46
1	cW	179	GLN	CA-C-N	6.50	128.90	120.44
1	cW	179	GLN	C-N-CA	6.50	128.90	120.44
1	cZ	195	ASN	CA-CB-CG	6.50	119.10	112.60
1	d0	32	PHE	CB-CA-C	-6.50	103.22	111.22
1	d6	76	GLU	N-CA-C	6.50	118.37	111.28
1	db	135	ILE	O-C-N	-6.50	115.56	121.87
1	dC	87	HIS	CA-CB-CG	-6.50	107.30	113.80
1	e5	182	LYS	O-C-N	-6.50	115.22	122.12
1	ej	159	GLU	N-CA-C	6.50	117.08	109.60
1	eO	186	THR	CA-C-O	6.50	127.44	120.55
1	eZ	17	PRO	N-CA-C	-6.50	105.05	113.57
1	1u	190	LEU	N-CA-C	6.50	118.92	111.11
1	fz	201	ILE	CA-C-N	6.50	129.00	120.28
1	fz	201	ILE	C-N-CA	6.50	129.00	120.28
1	f	32	PHE	O-C-N	-6.50	114.42	122.68
1	h	125	PRO	CA-C-N	6.50	129.37	120.46
1	h	125	PRO	C-N-CA	6.50	129.37	120.46
1	gb	32	PHE	CA-CB-CG	-6.50	107.30	113.80
1	gd	132	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	gk	100	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	gu	181	VAL	CA-C-N	6.50	128.89	120.44
1	gu	181	VAL	C-N-CA	6.50	128.89	120.44
1	gM	80	TRP	N-CA-CB	-6.50	100.20	110.28
1	gU	224	PRO	CA-C-N	6.50	129.91	121.85
1	gU	224	PRO	C-N-CA	6.50	129.91	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gX	127	GLY	CA-C-O	-6.50	114.35	121.05
1	h4	126	VAL	CA-C-N	6.50	127.15	120.00
1	h4	126	VAL	C-N-CA	6.50	127.15	120.00
1	hh	125	PRO	N-CA-CB	-6.50	96.42	103.25
1	ht	62	HIS	ND1-CG-CD2	6.50	112.60	106.10
1	i8	91	ILE	CA-C-N	6.50	129.43	120.39
1	i8	91	ILE	C-N-CA	6.50	129.43	120.39
1	ia	177	ALA	O-C-N	-6.50	114.87	122.87
1	ix	108	THR	N-CA-CB	6.50	120.22	110.53
1	iH	173	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	iS	76	GLU	N-CA-C	6.50	119.19	111.71
1	iW	222	GLY	CA-C-O	-6.50	115.83	122.59
1	iW	230	VAL	N-CA-CB	6.50	118.04	110.82
1	j4	28	GLU	N-CA-C	6.50	118.91	111.11
1	ji	198	CYS	CA-C-O	6.50	127.21	119.60
1	jv	87	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	jy	22	ALA	CA-C-N	6.50	129.23	120.65
1	jy	22	ALA	C-N-CA	6.50	129.23	120.65
1	jA	201	ILE	O-C-N	-6.50	112.91	121.82
1	k9	185	MET	N-CA-C	6.50	119.36	111.82
1	kC	83	LEU	O-C-N	-6.50	115.23	122.12
1	kE	119	THR	CA-C-N	6.50	130.10	120.87
1	kE	119	THR	C-N-CA	6.50	130.10	120.87
1	kV	56	LEU	O-C-N	-6.50	115.23	122.12
1	l1	165	VAL	CA-C-O	6.50	127.71	120.95
1	lD	162	ARG	N-CA-C	6.50	119.20	111.33
1	lI	51	ASP	CA-CB-CG	-6.50	106.10	112.60
1	2H	214	MET	N-CA-CB	-6.50	100.56	110.12
1	2I	224	PRO	CA-C-N	6.50	127.34	119.99
1	2I	224	PRO	C-N-CA	6.50	127.34	119.99
1	2K	170	LYS	CA-C-O	6.50	127.45	119.97
1	2V	214	MET	CG-SD-CE	-6.50	86.60	100.90
1	3H	125	PRO	O-C-N	-6.50	113.86	122.64
1	3O	12	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	3U	171	THR	N-CA-CB	6.50	119.44	110.01
1	3V	134	ILE	N-CA-C	6.50	116.66	110.42
1	46	25	LYS	CA-C-N	6.50	128.75	120.56
1	46	25	LYS	C-N-CA	6.50	128.75	120.56
1	4g	91	ILE	CA-C-O	6.50	127.37	120.48
1	4u	11	VAL	O-C-N	-6.50	116.14	123.10
1	4x	67	GLN	CA-C-O	6.50	127.44	120.55
1	4B	106	GLY	O-C-N	-6.50	114.13	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	163	ASP	O-C-N	-6.50	115.33	122.09
1	4Z	216	THR	CA-C-O	6.50	127.52	119.78
1	54	27	VAL	N-CA-C	6.50	117.29	110.72
1	5K	103	ASP	N-CA-C	-6.50	103.41	112.45
1	5Q	17	PRO	N-CA-CB	6.50	110.24	103.15
1	66	126	VAL	CA-C-O	-6.50	114.29	121.05
1	6c	75	GLU	N-CA-C	6.50	118.03	111.07
1	6c	142	VAL	O-C-N	6.50	128.66	121.90
1	6j	55	MET	CA-C-O	6.50	127.31	120.42
1	6m	96	MET	CA-C-N	6.50	130.38	120.82
1	6m	96	MET	C-N-CA	6.50	130.38	120.82
1	6m	195	ASN	CA-C-N	6.50	125.94	118.85
1	6m	195	ASN	C-N-CA	6.50	125.94	118.85
1	6r	105	ALA	O-C-N	-6.50	113.72	122.43
1	6w	58	THR	CA-CB-OG1	6.50	119.35	109.60
1	6L	124	ILE	O-C-N	-6.50	115.56	121.41
1	6S	226	HIS	N-CA-C	6.50	118.03	111.07
1	70	115	ILE	N-CA-C	6.50	116.66	110.42
1	7j	228	ALA	O-C-N	-6.50	114.78	122.58
1	7p	18	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	7B	103	ASP	CA-C-N	6.50	129.37	120.46
1	7B	103	ASP	C-N-CA	6.50	129.37	120.46
1	8h	114	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	8i	39	MET	O-C-N	-6.50	115.23	122.12
1	8D	37	ILE	CA-C-O	-6.50	113.32	118.85
1	8K	189	LEU	CA-C-N	6.50	128.99	120.28
1	8K	189	LEU	C-N-CA	6.50	128.99	120.28
1	8M	225	GLY	CA-C-O	6.50	126.95	121.88
1	96	129	ILE	O-C-N	-6.50	115.54	121.91
1	99	198	CYS	CA-C-N	6.50	129.64	120.28
1	99	198	CYS	C-N-CA	6.50	129.64	120.28
1	9t	161	PHE	CA-CB-CG	-6.50	107.30	113.80
1	9N	156	GLY	O-C-N	-6.50	115.27	121.77
1	ap	184	TRP	CB-CA-C	6.50	121.58	110.79
1	as	190	LEU	CA-C-O	6.50	127.44	120.55
1	at	119	THR	CA-C-O	6.50	127.26	119.59
1	12	108	THR	N-CA-C	6.50	121.27	112.88
1	aO	36	VAL	CA-C-O	-6.50	113.96	120.85
1	bm	152	ASP	CA-CB-CG	-6.50	106.10	112.60
1	by	159	GLU	CA-C-N	6.50	126.13	119.56
1	by	159	GLU	C-N-CA	6.50	126.13	119.56
1	bA	66	MET	CA-C-N	6.50	128.99	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bA	66	MET	C-N-CA	6.50	128.99	120.28
1	c1	56	LEU	N-CA-C	6.50	118.37	111.28
1	c5	189	LEU	N-CA-C	6.50	118.37	111.28
1	c7	23	TRP	N-CA-C	6.50	118.37	111.28
1	cd	19	THR	N-CA-CB	6.50	119.68	110.12
1	1e	190	LEU	N-CA-C	6.50	118.91	111.11
1	d3	163	ASP	CA-C-N	6.50	128.89	120.44
1	d3	163	ASP	C-N-CA	6.50	128.89	120.44
1	dh	79	GLU	CA-C-N	6.50	128.89	120.44
1	dh	79	GLU	C-N-CA	6.50	128.89	120.44
1	dO	172	LEU	N-CA-C	6.50	118.37	111.28
1	dQ	74	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	dZ	228	ALA	N-CA-C	6.50	118.37	111.28
1	er	196	PRO	CA-C-N	6.50	128.89	120.44
1	er	196	PRO	C-N-CA	6.50	128.89	120.44
1	eG	50	GLN	N-CA-C	6.50	118.37	111.28
1	1t	191	VAL	CA-C-O	6.50	127.83	120.42
1	fa	217	ALA	CA-C-O	-6.50	114.66	121.55
1	fd	27	VAL	N-CA-C	6.50	117.25	110.62
1	fs	50	GLN	N-CA-C	6.50	118.37	111.28
1	fH	219	GLN	CG-CD-OE1	6.50	133.80	120.80
1	fQ	195	ASN	O-C-N	-6.50	115.51	121.30
1	1A	86	VAL	N-CA-CB	6.50	118.31	110.31
1	k	16	SER	CA-C-N	6.50	127.97	119.84
1	k	16	SER	C-N-CA	6.50	127.97	119.84
1	s	37	ILE	O-C-N	-6.50	116.26	120.42
1	4	139	ASN	N-CA-C	-6.50	104.19	111.28
1	gD	169	TYR	CA-C-N	6.50	128.99	120.28
1	gD	169	TYR	C-N-CA	6.50	128.99	120.28
1	gV	7	GLN	CA-C-N	6.50	133.29	121.85
1	gV	7	GLN	C-N-CA	6.50	133.29	121.85
1	h2	171	THR	O-C-N	-6.50	115.23	122.12
1	hM	204	ALA	CA-C-N	6.50	128.99	120.28
1	hM	204	ALA	C-N-CA	6.50	128.99	120.28
1	ib	18	ARG	N-CA-C	6.50	118.03	111.07
1	iE	162	ARG	NH1-CZ-NH2	-6.50	110.85	119.30
1	kn	21	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	kT	22	ALA	N-CA-C	6.50	118.36	111.28
1	ls	87	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	lt	63	GLN	N-CA-C	6.50	118.36	111.28
1	lH	36	VAL	O-C-N	-6.50	115.52	121.89
1	2l	128	GLU	N-CA-C	6.50	118.36	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	49	PRO	CA-C-N	6.50	128.99	120.28
1	39	49	PRO	C-N-CA	6.50	128.99	120.28
1	3Y	220	GLY	N-CA-C	-6.50	106.47	114.92
1	5H	27	VAL	N-CA-C	6.50	117.25	110.62
1	6O	96	MET	N-CA-C	6.50	119.19	110.35
1	7r	168	PHE	CA-CB-CG	6.50	120.30	113.80
1	7z	71	GLU	CA-C-N	6.50	128.99	120.28
1	7z	71	GLU	C-N-CA	6.50	128.99	120.28
1	7V	216	THR	CA-CB-CG2	-6.50	99.45	110.50
1	7Y	65	ALA	CA-C-N	6.50	128.99	120.28
1	7Y	65	ALA	C-N-CA	6.50	128.99	120.28
1	8f	28	GLU	CA-C-O	6.50	127.44	120.55
1	8A	87	HIS	N-CA-C	6.50	119.66	110.23
1	9k	154	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	9M	217	ALA	O-C-N	-6.50	114.81	122.81
1	a7	27	VAL	O-C-N	-6.50	115.14	121.83
1	ar	70	LYS	N-CA-C	6.50	118.36	111.28
1	bv	156	GLY	CA-C-N	6.50	127.67	120.45
1	bv	156	GLY	C-N-CA	6.50	127.67	120.45
1	cy	224	PRO	CA-C-O	-6.50	114.15	121.43
1	cI	64	ALA	N-CA-C	-6.50	103.69	111.69
1	cO	22	ALA	CA-C-N	6.50	128.99	120.28
1	cO	22	ALA	C-N-CA	6.50	128.99	120.28
1	d1	195	ASN	CB-CA-C	6.50	119.62	109.42
1	1n	144	MET	CG-SD-CE	-6.50	86.60	100.90
1	ep	214	MET	CB-CA-C	6.50	121.08	110.88
1	eR	137	GLY	N-CA-C	6.50	121.09	112.77
1	z	62	HIS	CG-CD2-NE2	6.50	113.70	107.20
1	gD	176	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	1G	210	THR	O-C-N	-6.50	114.82	122.81
1	hb	133	TRP	CD2-CE2-CZ2	6.50	128.90	122.40
1	hg	158	LYS	CA-C-N	6.50	129.72	120.49
1	hg	158	LYS	C-N-CA	6.50	129.72	120.49
1	hh	59	VAL	CA-C-O	6.50	128.90	120.78
1	hk	206	GLY	CA-C-N	6.50	127.96	119.84
1	hk	206	GLY	C-N-CA	6.50	127.96	119.84
1	hm	154	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	ht	100	ARG	CA-C-O	-6.50	113.43	121.88
1	hw	216	THR	CA-C-N	6.50	132.52	120.95
1	hw	216	THR	C-N-CA	6.50	132.52	120.95
1	hx	226	HIS	CB-CG-CD2	-6.50	122.75	131.20
1	1K	160	PRO	N-CA-CB	6.50	110.07	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hG	37	ILE	CA-C-O	-6.50	113.33	118.85
1	hM	22	ALA	N-CA-C	6.50	118.02	111.07
1	hM	103	ASP	CA-C-N	6.50	129.65	120.42
1	hM	103	ASP	C-N-CA	6.50	129.65	120.42
1	i1	42	ALA	CA-C-N	6.50	128.99	120.28
1	i1	42	ALA	C-N-CA	6.50	128.99	120.28
1	i3	67	GLN	N-CA-C	6.50	118.36	111.28
1	i6	125	PRO	N-CA-CB	-6.50	97.41	102.28
1	iJ	128	GLU	N-CA-C	6.50	118.02	111.07
1	iZ	173	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	jf	110	THR	CA-C-N	6.50	128.99	120.28
1	jf	110	THR	C-N-CA	6.50	128.99	120.28
1	1V	218	CYS	CA-C-N	6.50	129.28	120.38
1	1V	218	CYS	C-N-CA	6.50	129.28	120.38
1	jX	4	GLN	CA-C-N	6.50	132.10	122.74
1	jX	4	GLN	C-N-CA	6.50	132.10	122.74
1	kg	96	MET	CG-SD-CE	-6.50	86.60	100.90
1	kR	5	ASN	CA-CB-CG	6.50	119.10	112.60
1	kV	140	LYS	O-C-N	6.50	128.76	122.07
1	lI	2	ILE	CA-C-O	6.50	128.05	120.71
1	2c	58	THR	N-CA-CB	6.50	119.67	110.12
1	2k	168	PHE	CA-CB-CG	-6.50	107.30	113.80
1	2I	189	LEU	O-C-N	-6.50	114.64	122.11
1	3c	33	SER	CA-C-O	-6.50	113.88	120.96
1	3i	14	ALA	N-CA-C	6.50	124.64	110.80
1	3o	69	LEU	CA-C-N	6.50	128.99	120.28
1	3o	69	LEU	C-N-CA	6.50	128.99	120.28
1	3I	102	SER	N-CA-CB	6.50	120.23	110.22
1	42	58	THR	CA-CB-OG1	6.50	119.35	109.60
1	4a	195	ASN	CA-CB-CG	-6.50	106.10	112.60
1	4x	25	LYS	O-C-N	-6.50	115.27	122.03
1	4A	84	HIS	CA-C-N	6.50	126.52	119.89
1	4A	84	HIS	C-N-CA	6.50	126.52	119.89
1	4L	5	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	5B	62	HIS	ND1-CE1-NE2	6.50	114.90	108.40
1	5L	117	TRP	N-CA-C	6.50	118.02	111.07
1	5M	123	PRO	CB-CA-C	-6.50	103.31	111.56
1	5W	136	LEU	CA-C-N	6.50	127.02	119.94
1	5W	136	LEU	C-N-CA	6.50	127.02	119.94
1	6y	150	ILE	O-C-N	-6.50	115.70	122.20
1	6D	122	PRO	CA-C-N	6.50	126.53	119.90
1	6D	122	PRO	C-N-CA	6.50	126.53	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6H	120	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	6H	137	GLY	CA-C-O	-6.50	114.43	120.80
1	6Q	37	ILE	O-C-N	-6.50	116.26	120.42
1	7t	36	VAL	N-CA-C	6.50	117.28	110.72
1	7w	122	PRO	CA-C-N	6.50	126.41	119.85
1	7w	122	PRO	C-N-CA	6.50	126.41	119.85
1	7I	145	TYR	N-CA-C	-6.50	105.22	113.02
1	80	62	HIS	ND1-CG-CD2	6.50	112.60	106.10
1	8f	206	GLY	CA-C-N	6.50	125.93	118.85
1	8f	206	GLY	C-N-CA	6.50	125.93	118.85
1	8r	37	ILE	CA-C-N	6.50	125.73	118.97
1	8r	37	ILE	C-N-CA	6.50	125.73	118.97
1	8u	36	VAL	CA-C-N	6.50	124.33	120.24
1	8u	36	VAL	C-N-CA	6.50	124.33	120.24
1	8K	87	HIS	CG-CD2-NE2	6.50	113.70	107.20
1	8X	139	ASN	N-CA-C	6.50	118.36	111.28
1	9c	212	GLU	CA-C-N	6.50	128.99	120.28
1	9c	212	GLU	C-N-CA	6.50	128.99	120.28
1	9m	229	ARG	O-C-N	-6.50	115.19	122.86
1	9F	99	PRO	O-C-N	-6.50	113.68	122.78
1	ac	118	MET	CA-C-N	6.50	129.52	120.29
1	ac	118	MET	C-N-CA	6.50	129.52	120.29
1	am	39	MET	N-CA-C	6.50	118.02	111.07
1	aD	164	TYR	CA-CB-CG	6.50	125.60	113.90
1	aG	16	SER	N-CA-C	6.50	118.84	109.48
1	aJ	191	VAL	CA-C-N	6.50	128.99	120.28
1	aJ	191	VAL	C-N-CA	6.50	128.99	120.28
1	aL	172	LEU	CA-C-N	6.50	128.99	120.28
1	aL	172	LEU	C-N-CA	6.50	128.99	120.28
1	aN	16	SER	CA-C-N	6.50	126.08	119.19
1	aN	16	SER	C-N-CA	6.50	126.08	119.19
1	b1	92	GLU	CA-C-O	-6.50	113.62	120.70
1	b9	99	PRO	N-CA-CB	6.50	109.12	103.27
1	bd	97	ARG	NH1-CZ-NH2	6.50	127.75	119.30
1	bw	31	ALA	N-CA-C	6.50	118.19	108.31
1	bO	211	LEU	CA-C-O	-6.50	113.61	120.63
1	cg	98	GLU	CA-C-N	6.50	126.52	119.89
1	cg	98	GLU	C-N-CA	6.50	126.52	119.89
1	1f	115	ILE	CA-CB-CG2	6.50	121.55	110.50
1	cL	52	LEU	CA-C-N	6.50	128.89	120.44
1	cL	52	LEU	C-N-CA	6.50	128.89	120.44
1	cS	229	ARG	CA-C-N	6.50	133.67	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cS	229	ARG	C-N-CA	6.50	133.67	121.97
1	dj	39	MET	N-CA-C	6.50	118.36	111.28
1	ds	162	ARG	CG-CD-NE	-6.50	97.70	112.00
1	dx	37	ILE	N-CA-C	6.50	120.15	112.35
1	dR	94	GLY	O-C-N	-6.50	114.85	122.45
1	e9	185	MET	O-C-N	-6.50	115.23	122.12
1	ea	178	SER	CA-C-N	6.50	129.87	120.38
1	ea	178	SER	C-N-CA	6.50	129.87	120.38
1	em	143	ARG	NH1-CZ-NH2	6.50	127.75	119.30
1	eL	219	GLN	CA-C-O	6.50	127.51	120.43
1	eM	8	GLY	CA-C-O	6.50	130.91	122.33
1	eW	156	GLY	CA-C-N	6.50	127.96	119.84
1	eW	156	GLY	C-N-CA	6.50	127.96	119.84
1	1v	114	GLN	OE1-CD-NE2	6.50	129.10	122.60
1	fe	11	VAL	CA-C-O	-6.50	114.85	120.96
1	o	188	THR	O-C-N	-6.50	114.29	121.76
1	ge	70	LYS	CA-C-O	-6.50	113.95	120.90
1	ge	124	ILE	O-C-N	-6.50	114.72	120.96
1	gi	72	THR	CA-C-N	6.50	128.75	120.56
1	gi	72	THR	C-N-CA	6.50	128.75	120.56
1	go	40	PHE	N-CA-C	6.50	122.09	111.37
1	gx	89	GLY	CA-C-N	6.50	127.96	119.84
1	gx	89	GLY	C-N-CA	6.50	127.96	119.84
1	h1	68	MET	N-CA-C	6.50	118.02	111.07
1	hf	136	LEU	CA-C-N	6.50	127.33	119.99
1	hf	136	LEU	C-N-CA	6.50	127.33	119.99
1	hj	200	THR	N-CA-CB	6.50	119.49	110.07
1	1K	82	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	hP	25	LYS	N-CA-C	6.50	118.02	111.07
1	hS	99	PRO	CA-C-N	6.50	134.35	122.92
1	hS	99	PRO	C-N-CA	6.50	134.35	122.92
1	1P	8	GLY	O-C-N	-6.50	116.60	122.77
1	iA	134	ILE	CA-C-N	6.50	129.65	120.42
1	iA	134	ILE	C-N-CA	6.50	129.65	120.42
1	iJ	54	THR	CA-C-N	6.50	128.99	120.28
1	iJ	54	THR	C-N-CA	6.50	128.99	120.28
1	j1	5	ASN	N-CA-CB	-6.50	99.50	111.13
1	j8	82	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	1U	139	ASN	CA-CB-CG	6.50	119.10	112.60
1	jp	160	PRO	CA-C-N	6.50	129.31	120.54
1	jp	160	PRO	C-N-CA	6.50	129.31	120.54
1	js	103	ASP	CA-CB-CG	6.50	119.10	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	187	GLU	CA-C-O	-6.50	112.12	119.79
1	k1	111	LEU	CA-C-N	6.50	128.89	120.44
1	k1	111	LEU	C-N-CA	6.50	128.89	120.44
1	ku	118	MET	N-CA-CB	-6.50	100.88	110.49
1	kv	79	GLU	N-CA-C	6.50	118.36	111.28
1	kQ	185	MET	O-C-N	-6.50	115.23	122.12
1	kT	25	LYS	O-C-N	-6.50	114.74	122.15
1	lg	49	PRO	CA-C-N	6.50	129.28	120.38
1	lg	49	PRO	C-N-CA	6.50	129.28	120.38
1	lq	221	VAL	O-C-N	-6.50	115.57	121.87
1	lt	52	LEU	CA-C-N	6.50	128.99	120.28
1	lt	52	LEU	C-N-CA	6.50	128.99	120.28
1	lG	212	GLU	CA-C-N	6.50	128.98	120.28
1	lG	212	GLU	C-N-CA	6.50	128.98	120.28
1	2F	132	ARG	N-CA-C	6.50	118.36	111.28
1	2O	84	HIS	CA-CB-CG	6.50	120.30	113.80
1	2V	69	LEU	N-CA-C	6.50	119.19	111.33
1	3n	12	HIS	CA-C-O	6.50	127.88	120.54
1	3s	197	ASP	N-CA-CB	-6.50	100.88	110.49
1	3L	186	THR	O-C-N	-6.50	115.23	122.12
1	3O	74	ASN	N-CA-C	-6.50	104.28	111.82
1	3Q	18	ARG	CA-C-N	6.50	128.88	120.44
1	3Q	18	ARG	C-N-CA	6.50	128.88	120.44
1	3Q	27	VAL	O-C-N	-6.50	115.57	121.87
1	3U	215	MET	N-CA-C	6.50	118.36	111.28
1	4M	64	ALA	CA-C-N	6.50	129.51	120.29
1	4M	64	ALA	C-N-CA	6.50	129.51	120.29
1	4N	48	THR	CA-C-O	-6.50	113.60	120.88
1	5k	195	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	5w	62	HIS	CA-C-N	6.50	133.95	121.54
1	5w	62	HIS	C-N-CA	6.50	133.95	121.54
1	5A	80	TRP	CB-CG-CD2	-6.50	117.70	126.80
1	5W	142	VAL	N-CA-C	6.50	116.66	110.42
1	68	50	GLN	O-C-N	-6.50	115.23	122.12
1	6A	69	LEU	CA-C-N	6.50	128.99	120.28
1	6A	69	LEU	C-N-CA	6.50	128.99	120.28
1	6E	186	THR	CA-C-O	6.50	127.92	120.00
1	71	84	HIS	CA-C-N	6.50	126.52	119.89
1	71	84	HIS	C-N-CA	6.50	126.52	119.89
1	7d	210	THR	CA-C-N	6.50	128.99	120.28
1	7d	210	THR	C-N-CA	6.50	128.99	120.28
1	7w	192	GLN	N-CA-C	6.50	118.44	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7M	133	TRP	CG-CD2-CE3	-6.50	127.40	133.90
1	7Q	138	LEU	CA-C-O	6.50	127.44	119.97
1	86	126	VAL	N-CA-C	6.50	117.25	110.62
1	8x	133	TRP	CG-CD2-CE3	-6.50	127.40	133.90
1	8E	212	GLU	N-CA-C	6.50	118.36	111.28
1	8G	208	ALA	O-C-N	-6.50	113.50	122.46
1	8M	20	LEU	CA-C-N	6.50	129.51	120.29
1	8M	20	LEU	C-N-CA	6.50	129.51	120.29
1	90	149	SER	CA-C-N	6.50	130.74	120.47
1	90	149	SER	C-N-CA	6.50	130.74	120.47
1	92	39	MET	O-C-N	-6.50	115.23	122.12
1	99	156	GLY	O-C-N	-6.50	115.27	121.77
1	9w	100	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	Y	101	GLY	CA-C-N	6.50	130.19	120.31
1	Y	101	GLY	C-N-CA	6.50	130.19	120.31
1	9Y	87	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	a2	161	PHE	CB-CA-C	6.50	121.58	110.79
1	a6	167	ARG	CA-C-N	6.50	128.98	120.28
1	a6	167	ARG	C-N-CA	6.50	128.98	120.28
1	az	105	ALA	CA-C-N	6.50	132.07	120.77
1	az	105	ALA	C-N-CA	6.50	132.07	120.77
1	13	58	THR	CA-CB-CG2	6.50	121.55	110.50
1	aN	202	LEU	CA-C-N	6.50	128.88	120.44
1	aN	202	LEU	C-N-CA	6.50	128.88	120.44
1	aR	138	LEU	CA-C-O	6.50	127.31	120.42
1	aY	211	LEU	CA-C-N	6.50	128.88	120.44
1	aY	211	LEU	C-N-CA	6.50	128.88	120.44
1	b1	64	ALA	N-CA-CB	-6.50	100.26	109.94
1	bj	60	GLY	CA-C-N	-6.50	113.68	119.92
1	bj	60	GLY	C-N-CA	-6.50	113.68	119.92
1	bk	97	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	br	41	SER	O-C-N	-6.50	115.23	122.12
1	bA	196	PRO	CA-C-N	6.50	129.23	120.65
1	bA	196	PRO	C-N-CA	6.50	129.23	120.65
1	bB	140	LYS	N-CA-C	6.50	119.18	111.71
1	bC	179	GLN	CA-C-N	6.50	128.99	120.28
1	bC	179	GLN	C-N-CA	6.50	128.99	120.28
1	cD	154	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	cP	129	ILE	CA-C-N	6.50	129.51	120.29
1	cP	129	ILE	C-N-CA	6.50	129.51	120.29
1	cQ	207	PRO	N-CA-C	6.50	123.23	113.81
1	cU	25	LYS	N-CA-C	6.50	118.02	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	de	42	ALA	CA-C-O	6.50	127.44	120.55
1	dq	163	ASP	CA-CB-CG	-6.50	106.10	112.60
1	dD	89	GLY	N-CA-C	6.50	119.80	112.00
1	dO	140	LYS	O-C-N	-6.50	115.38	122.07
1	e2	34	PRO	N-CA-C	6.50	125.85	112.47
1	e3	165	VAL	N-CA-C	6.50	118.03	110.62
1	e6	130	TYR	CA-C-N	6.50	128.99	120.28
1	e6	130	TYR	C-N-CA	6.50	128.99	120.28
1	ei	97	ARG	NE-CZ-NH2	-6.50	113.35	119.20
1	ep	173	ARG	N-CA-C	6.50	118.36	111.28
1	eq	28	GLU	N-CA-C	6.50	118.02	111.07
1	ew	164	TYR	CB-CA-C	6.50	121.08	110.88
1	1u	117	TRP	N-CA-C	6.50	118.36	111.28
1	f3	33	SER	N-CA-C	6.50	118.08	109.83
1	fh	7	GLN	OE1-CD-NE2	-6.50	116.10	122.60
1	fB	200	THR	CA-CB-CG2	6.50	121.54	110.50
1	g3	23	TRP	CD2-CE2-CZ2	-6.50	115.90	122.40
1	g3	58	THR	CA-C-O	6.50	127.44	119.97
1	m	148	THR	O-C-N	-6.50	115.67	123.27
1	D	110	THR	N-CA-CB	6.50	120.69	110.56
1	U	143	ARG	N-CA-CB	6.50	119.78	110.16
1	gC	169	TYR	CA-C-N	6.50	128.88	120.44
1	gC	169	TYR	C-N-CA	6.50	128.88	120.44
1	gN	134	ILE	N-CA-C	6.50	117.25	110.62
1	hs	118	MET	O-C-N	-6.50	113.50	122.46
1	hB	166	ASP	CA-C-O	6.50	127.39	120.70
1	hD	45	GLU	CB-CA-C	-6.50	100.52	110.26
1	iw	77	ALA	N-CA-C	6.50	118.36	111.28
1	iQ	65	ALA	O-C-N	6.50	128.76	122.07
1	iU	212	GLU	CA-C-N	6.50	128.88	120.44
1	iU	212	GLU	C-N-CA	6.50	128.88	120.44
1	2d	30	LYS	CA-C-N	6.50	129.86	120.38
1	2d	30	LYS	C-N-CA	6.50	129.86	120.38
1	2g	194	ALA	O-C-N	-6.50	115.67	122.94
1	2z	89	GLY	CA-C-N	6.50	126.53	119.90
1	2z	89	GLY	C-N-CA	6.50	126.53	119.90
1	4G	204	ALA	N-CA-C	6.50	118.44	111.36
1	4U	64	ALA	N-CA-CB	6.50	119.77	110.16
1	5c	193	ASN	N-CA-C	-6.50	104.99	113.17
1	67	197	ASP	CA-C-N	6.50	128.98	120.28
1	67	197	ASP	C-N-CA	6.50	128.98	120.28
1	7k	196	PRO	CA-C-N	6.50	128.88	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7k	196	PRO	C-N-CA	6.50	128.88	120.44
1	8C	111	LEU	CA-C-N	6.50	130.56	120.82
1	8C	111	LEU	C-N-CA	6.50	130.56	120.82
1	93	168	PHE	CA-CB-CG	6.50	120.30	113.80
1	9u	172	LEU	CA-C-N	6.50	128.88	120.44
1	9u	172	LEU	C-N-CA	6.50	128.88	120.44
1	9x	79	GLU	O-C-N	-6.50	115.38	122.07
1	a2	22	ALA	CA-C-N	6.50	128.88	120.44
1	a2	22	ALA	C-N-CA	6.50	128.88	120.44
1	ac	48	THR	CA-CB-OG1	6.50	119.34	109.60
1	aN	68	MET	N-CA-CB	6.50	119.62	109.94
1	aU	73	ILE	CB-CA-C	-6.50	103.66	111.97
1	bO	57	ASN	N-CA-CB	6.50	120.10	110.49
1	c9	154	ARG	NE-CZ-NH1	6.50	128.00	121.50
1	cm	40	PHE	CA-CB-CG	-6.50	107.31	113.80
1	cR	53	ASN	CA-C-N	6.50	128.98	120.28
1	cR	53	ASN	C-N-CA	6.50	128.98	120.28
1	ea	186	THR	CA-C-N	6.50	131.72	120.68
1	ea	186	THR	C-N-CA	6.50	131.72	120.68
1	eQ	57	ASN	CA-CB-CG	-6.50	106.11	112.60
1	fE	114	GLN	N-CA-C	-6.50	104.20	111.28
1	c	137	GLY	CA-C-N	6.50	129.51	120.29
1	c	137	GLY	C-N-CA	6.50	129.51	120.29
1	p	48	THR	O-C-N	-6.50	114.72	121.60
1	z	191	VAL	CB-CA-C	-6.50	103.26	112.22
1	N	219	GLN	OE1-CD-NE2	-6.50	116.11	122.60
1	gj	162	ARG	O-C-N	-6.49	115.24	122.12
1	hv	63	GLN	N-CA-C	6.49	118.36	111.28
1	hE	227	LYS	N-CA-CB	6.49	121.46	110.49
1	hM	195	ASN	CA-CB-CG	6.49	119.09	112.60
1	iw	213	GLU	CA-C-O	-6.49	114.00	120.82
1	iY	104	ILE	CA-C-O	-6.49	114.29	121.17
1	jj	181	VAL	CA-C-O	6.49	127.70	120.95
1	jE	109	SER	N-CA-C	6.49	119.89	110.28
1	jF	188	THR	N-CA-C	-6.49	103.23	112.13
1	jU	16	SER	CA-C-N	6.49	126.42	119.28
1	jU	16	SER	C-N-CA	6.49	126.42	119.28
1	jY	226	HIS	CA-CB-CG	6.49	120.29	113.80
1	1Z	134	ILE	N-CA-C	6.49	116.65	110.42
1	20	216	THR	N-CA-C	6.49	120.94	112.89
1	kL	195	ASN	CA-C-N	6.49	127.96	119.84
1	kL	195	ASN	C-N-CA	6.49	127.96	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kW	100	ARG	N-CA-C	6.49	118.94	110.43
1	lb	113	GLU	N-CA-C	6.49	118.36	111.28
1	lN	168	PHE	O-C-N	-6.49	115.24	122.12
1	2c	95	GLN	O-C-N	-6.49	114.78	122.96
1	2h	125	PRO	CA-C-N	6.49	128.98	120.60
1	2h	125	PRO	C-N-CA	6.49	128.98	120.60
1	2i	218	CYS	O-C-N	-6.49	113.95	122.59
1	2n	207	PRO	N-CA-C	-6.49	107.93	114.68
1	2p	103	ASP	N-CA-C	6.49	120.30	112.38
1	2s	85	PRO	CA-C-N	6.49	131.45	121.71
1	2s	85	PRO	C-N-CA	6.49	131.45	121.71
1	2F	31	ALA	N-CA-C	6.49	120.55	112.24
1	2J	226	HIS	CA-CB-CG	-6.49	107.31	113.80
1	2U	168	PHE	CA-C-O	6.49	127.64	120.82
1	2Z	91	ILE	CA-CB-CG1	6.49	121.44	110.40
1	30	24	VAL	CB-CA-C	-6.49	103.26	112.22
1	3o	81	ASP	CA-C-N	6.49	128.88	120.44
1	3o	81	ASP	C-N-CA	6.49	128.88	120.44
1	3q	76	GLU	N-CA-CB	6.49	119.67	110.12
1	3z	81	ASP	N-CA-CB	-6.49	100.32	110.06
1	3z	115	ILE	CA-C-N	6.49	127.14	120.00
1	3z	115	ILE	C-N-CA	6.49	127.14	120.00
1	3J	12	HIS	CG-CD2-NE2	6.49	113.69	107.20
1	3K	184	TRP	CA-C-N	6.49	128.98	120.28
1	3K	184	TRP	C-N-CA	6.49	128.98	120.28
1	46	179	GLN	CA-C-N	6.49	129.28	120.38
1	46	179	GLN	C-N-CA	6.49	129.28	120.38
1	5i	166	ASP	O-C-N	-6.49	115.08	122.09
1	5k	151	LEU	CA-C-O	6.49	127.42	119.11
1	5p	87	HIS	CG-CD2-NE2	6.49	113.69	107.20
1	5Y	169	TYR	CB-CA-C	6.49	121.89	110.85
1	6a	32	PHE	N-CA-CB	6.49	119.71	109.71
1	6g	173	ARG	N-CA-C	6.49	118.44	111.36
1	6P	28	GLU	N-CA-C	6.49	118.44	111.36
1	6S	121	ASN	N-CA-CB	-6.49	97.25	110.50
1	79	203	LYS	CA-C-N	6.49	129.27	120.44
1	79	203	LYS	C-N-CA	6.49	129.27	120.44
1	7E	87	HIS	CE1-NE2-CD2	-6.49	102.51	109.00
1	7L	181	VAL	O-C-N	-6.49	115.57	121.87
1	89	115	ILE	CA-C-N	6.49	127.14	120.00
1	89	115	ILE	C-N-CA	6.49	127.14	120.00
1	8d	115	ILE	O-C-N	-6.49	115.57	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	72	THR	N-CA-C	6.49	118.44	111.36
1	8C	209	ALA	N-CA-C	-6.49	99.94	110.20
1	8R	80	TRP	CB-CA-C	-6.49	99.81	110.85
1	9c	68	MET	CA-C-O	6.49	127.64	120.82
1	a6	129	ILE	CA-C-N	6.49	128.88	120.44
1	a6	129	ILE	C-N-CA	6.49	128.88	120.44
1	al	110	THR	CA-CB-OG1	6.49	119.34	109.60
1	12	195	ASN	CB-CA-C	6.49	119.78	109.52
1	aI	220	GLY	CA-C-N	6.49	129.26	120.63
1	aI	220	GLY	C-N-CA	6.49	129.26	120.63
1	b0	190	LEU	N-CA-C	6.49	118.02	111.07
1	bc	109	SER	O-C-N	-6.49	114.82	122.81
1	bk	184	TRP	N-CA-C	6.49	118.36	111.28
1	bD	51	ASP	CA-C-N	6.49	128.98	120.28
1	bD	51	ASP	C-N-CA	6.49	128.98	120.28
1	c0	134	ILE	O-C-N	-6.49	115.57	121.87
1	c9	78	ALA	N-CA-C	6.49	118.90	111.11
1	cl	68	MET	O-C-N	6.49	128.76	122.07
1	cN	146	SER	CA-C-N	6.49	126.88	119.93
1	cN	146	SER	C-N-CA	6.49	126.88	119.93
1	dg	107	THR	OG1-CB-CG2	-6.49	96.31	109.30
1	dS	7	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	e5	63	GLN	CA-C-N	-6.49	111.58	120.28
1	e5	63	GLN	C-N-CA	-6.49	111.58	120.28
1	eQ	97	ARG	NH1-CZ-NH2	-6.49	110.86	119.30
1	f4	156	GLY	O-C-N	-6.49	115.28	121.77
1	fu	180	GLU	CA-C-N	6.49	128.87	120.56
1	fu	180	GLU	C-N-CA	6.49	128.87	120.56
1	fF	126	VAL	N-CA-C	6.49	119.17	111.05
1	fM	24	VAL	N-CA-CB	6.49	119.37	110.54
1	fQ	197	ASP	O-C-N	6.49	128.76	122.07
1	fY	145	TYR	CA-C-N	-6.49	114.52	122.64
1	fY	145	TYR	C-N-CA	-6.49	114.52	122.64
1	c	159	GLU	CB-CA-C	6.49	120.21	109.56
1	j	139	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	o	211	LEU	N-CA-CB	-6.49	100.58	110.12
1	w	187	GLU	CA-C-N	6.49	129.31	120.54
1	w	187	GLU	C-N-CA	6.49	129.31	120.54
1	G	19	THR	CA-C-O	6.49	127.39	120.70
1	O	167	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	X	91	ILE	CA-C-O	6.49	127.48	120.47
1	he	14	ALA	N-CA-C	6.49	119.64	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	119	THR	CA-CB-OG1	6.49	119.34	109.60
1	kZ	199	LYS	N-CA-C	6.49	119.19	111.33
1	lx	161	PHE	CA-CB-CG	-6.49	107.31	113.80
1	lD	29	GLU	N-CA-CB	-6.49	101.92	110.88
1	2v	115	ILE	CA-C-N	6.49	127.02	119.94
1	2v	115	ILE	C-N-CA	6.49	127.02	119.94
1	3L	44	SER	CA-C-N	6.49	129.31	120.54
1	3L	44	SER	C-N-CA	6.49	129.31	120.54
1	3T	186	THR	N-CA-C	-6.49	104.12	111.07
1	4b	189	LEU	CA-C-O	-6.49	113.95	120.90
1	4d	205	LEU	O-C-N	-6.49	114.75	122.15
1	4r	205	LEU	CA-C-N	6.49	132.06	121.87
1	4r	205	LEU	C-N-CA	6.49	132.06	121.87
1	4P	114	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	4W	123	PRO	CA-C-N	-6.49	117.07	123.04
1	4W	123	PRO	C-N-CA	-6.49	117.07	123.04
1	53	12	HIS	CG-CD2-NE2	6.49	113.69	107.20
1	6g	133	TRP	CA-C-O	-6.49	113.54	120.42
1	6C	14	ALA	N-CA-CB	-6.49	100.18	109.85
1	7t	62	HIS	CB-CA-C	-6.49	102.80	111.63
1	7v	136	LEU	CA-C-N	6.49	127.15	119.94
1	7v	136	LEU	C-N-CA	6.49	127.15	119.94
1	86	51	ASP	N-CA-C	6.49	118.02	111.07
1	8v	84	HIS	CE1-NE2-CD2	-6.49	102.51	109.00
1	8D	114	GLN	N-CA-C	6.49	118.36	111.28
1	9c	69	LEU	O-C-N	-6.49	115.38	122.07
1	9q	24	VAL	N-CA-C	6.49	118.02	110.62
1	9u	126	VAL	CA-C-N	6.49	127.19	119.98
1	9u	126	VAL	C-N-CA	6.49	127.19	119.98
1	9Q	75	GLU	N-CA-C	6.49	118.02	111.07
1	9Z	205	LEU	CA-C-N	6.49	132.06	121.87
1	9Z	205	LEU	C-N-CA	6.49	132.06	121.87
1	aR	18	ARG	NH1-CZ-NH2	-6.49	110.86	119.30
1	by	13	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	ce	42	ALA	CA-C-O	-6.49	113.67	120.55
1	ci	159	GLU	O-C-N	-6.49	115.14	121.18
1	cA	134	ILE	N-CA-CB	6.49	118.14	110.55
1	cY	191	VAL	N-CA-C	6.49	119.20	111.09
1	d1	96	MET	N-CA-CB	6.49	121.46	110.49
1	dT	106	GLY	O-C-N	-6.49	115.29	122.50
1	dU	210	THR	CA-CB-OG1	6.49	119.34	109.60
1	em	113	GLU	CA-C-N	6.49	128.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	113	GLU	C-N-CA	6.49	128.98	120.28
1	fz	180	GLU	N-CA-CB	6.49	119.48	110.07
1	1y	39	MET	CG-SD-CE	-6.49	86.62	100.90
1	g7	126	VAL	N-CA-C	6.49	119.17	111.05
1	1	111	LEU	O-C-N	-6.49	115.34	122.09
1	6	216	THR	N-CA-CB	6.49	119.77	110.16
1	gI	184	TRP	N-CA-C	6.49	118.43	111.36
1	gO	230	VAL	N-CA-C	6.49	118.43	109.80
1	ht	21	ASN	O-C-N	-6.49	115.24	122.12
1	hu	224	PRO	N-CA-CB	6.49	108.77	103.32
1	hv	128	GLU	N-CA-C	6.49	119.18	111.33
1	hR	187	GLU	CA-C-O	-6.49	113.54	120.42
1	it	207	PRO	CA-C-O	-6.49	110.42	118.99
1	iy	143	ARG	N-CA-C	6.49	118.94	111.02
1	1R	167	ARG	O-C-N	6.49	129.55	122.15
1	jp	82	ARG	CA-C-N	6.49	133.82	122.79
1	jp	82	ARG	C-N-CA	6.49	133.82	122.79
1	jz	131	LYS	CA-C-N	6.49	129.51	120.29
1	jz	131	LYS	C-N-CA	6.49	129.51	120.29
1	jY	48	THR	CB-CA-C	6.49	119.72	109.27
1	ke	20	LEU	CA-C-N	6.49	129.27	120.44
1	ke	20	LEU	C-N-CA	6.49	129.27	120.44
1	kw	136	LEU	CA-C-N	6.49	127.19	119.98
1	kw	136	LEU	C-N-CA	6.49	127.19	119.98
1	kB	190	LEU	N-CA-C	6.49	119.35	111.82
1	kD	188	THR	CA-C-N	6.49	130.17	120.31
1	kD	188	THR	C-N-CA	6.49	130.17	120.31
1	kI	219	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	kM	204	ALA	N-CA-C	6.49	118.36	111.28
1	27	103	ASP	CA-C-N	6.49	128.97	120.60
1	27	103	ASP	C-N-CA	6.49	128.97	120.60
1	ln	189	LEU	N-CA-C	6.49	118.36	111.28
1	lC	8	GLY	CA-C-O	6.49	128.38	121.31
1	2E	146	SER	N-CA-C	6.49	124.16	109.81
1	2F	45	GLU	CB-CA-C	-6.49	100.81	110.16
1	2I	213	GLU	N-CA-C	6.49	118.01	111.07
1	2V	16	SER	N-CA-C	6.49	117.88	109.64
1	2X	1	PRO	CB-CA-C	6.49	122.43	110.10
1	3d	139	ASN	CB-CG-ND2	6.49	126.14	116.40
1	3d	171	THR	CA-CB-OG1	6.49	119.33	109.60
1	3n	202	LEU	CA-C-N	6.49	128.98	120.28
1	3n	202	LEU	C-N-CA	6.49	128.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3o	180	GLU	N-CA-C	6.49	119.17	111.71
1	3x	111	LEU	N-CA-C	6.49	118.35	111.28
1	3z	9	GLN	N-CA-C	6.49	119.39	110.24
1	3R	190	LEU	O-C-N	-6.49	115.24	122.12
1	4i	195	ASN	CA-C-N	6.49	127.95	119.84
1	4i	195	ASN	C-N-CA	6.49	127.95	119.84
1	4m	163	ASP	CA-CB-CG	6.49	119.09	112.60
1	4r	170	LYS	N-CA-CB	6.49	119.66	110.12
1	4w	130	TYR	CA-C-N	6.49	130.18	120.31
1	4w	130	TYR	C-N-CA	6.49	130.18	120.31
1	4N	34	PRO	CA-C-N	6.49	130.18	120.31
1	4N	34	PRO	C-N-CA	6.49	130.18	120.31
1	4Z	41	SER	N-CA-C	6.49	118.36	111.28
1	5B	59	VAL	O-C-N	6.49	129.29	122.67
1	5E	97	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	6b	67	GLN	N-CA-C	6.49	118.90	111.11
1	6y	39	MET	N-CA-C	6.49	118.01	111.07
1	6A	5	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	6M	32	PHE	CA-CB-CG	-6.49	107.31	113.80
1	7g	170	LYS	CA-C-N	6.49	129.27	120.44
1	7g	170	LYS	C-N-CA	6.49	129.27	120.44
1	7n	77	ALA	N-CA-C	6.49	119.19	111.33
1	7r	165	VAL	CA-C-N	6.49	128.98	120.28
1	7r	165	VAL	C-N-CA	6.49	128.98	120.28
1	7A	66	MET	N-CA-C	6.49	118.01	111.07
1	7Z	193	ASN	CA-CB-CG	-6.49	106.11	112.60
1	80	89	GLY	CA-C-N	6.49	126.52	119.90
1	80	89	GLY	C-N-CA	6.49	126.52	119.90
1	8t	13	GLN	CA-C-O	-6.49	113.46	120.92
1	8x	193	ASN	CA-CB-CG	6.49	119.09	112.60
1	9R	43	LEU	CA-C-O	6.49	127.43	120.55
1	10	184	TRP	CB-CG-CD1	-6.49	117.17	126.90
1	aa	196	PRO	N-CA-C	6.49	122.41	113.65
1	bh	113	GLU	CA-C-O	-6.49	114.00	120.82
1	by	192	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	bP	162	ARG	N-CA-C	6.49	118.02	111.07
1	bQ	153	ILE	O-C-N	-6.49	115.63	122.57
1	c8	187	GLU	N-CA-C	6.49	118.05	110.97
1	cw	4	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	cD	34	PRO	N-CA-C	6.49	125.84	112.47
1	cM	19	THR	O-C-N	6.49	128.75	122.07
1	cX	181	VAL	CA-C-O	-6.49	114.52	121.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d5	226	HIS	ND1-CE1-NE2	6.49	114.89	108.40
1	dk	187	GLU	CA-C-N	6.49	130.16	122.44
1	dk	187	GLU	C-N-CA	6.49	130.16	122.44
1	dX	214	MET	O-C-N	-6.49	115.24	122.12
1	e5	152	ASP	CA-CB-CG	-6.49	106.11	112.60
1	e6	6	LEU	N-CA-CB	-6.49	100.71	111.49
1	ea	112	GLN	N-CA-C	6.49	119.18	111.33
1	eu	197	ASP	CA-C-N	6.49	129.62	120.28
1	eu	197	ASP	C-N-CA	6.49	129.62	120.28
1	ev	219	GLN	N-CA-CB	-6.49	100.99	110.53
1	f0	114	GLN	N-CA-C	6.49	118.36	111.28
1	f3	176	GLN	CB-CA-C	6.49	121.45	111.39
1	fc	69	LEU	CA-C-N	6.49	128.88	120.44
1	fc	69	LEU	C-N-CA	6.49	128.88	120.44
1	fi	41	SER	CA-C-N	6.49	128.98	120.28
1	fi	41	SER	C-N-CA	6.49	128.98	120.28
1	fk	12	HIS	CE1-NE2-CD2	-6.49	102.51	109.00
1	fI	27	VAL	O-C-N	-6.49	115.15	121.90
1	fM	112	GLN	O-C-N	-6.49	115.24	122.12
1	b	105	ALA	N-CA-C	-6.49	104.84	112.89
1	e	139	ASN	OD1-CG-ND2	6.49	129.09	122.60
1	v	56	LEU	O-C-N	-6.49	115.24	122.12
1	P	134	ILE	N-CA-C	6.49	117.24	110.62
1	R	68	MET	N-CA-CB	6.49	119.77	110.16
1	W	171	THR	CA-C-N	6.49	128.98	120.28
1	W	171	THR	C-N-CA	6.49	128.98	120.28
1	1C	162	ARG	N-CA-C	6.49	118.35	111.28
1	gp	102	SER	N-CA-C	6.49	118.35	111.28
1	gw	84	HIS	O-C-N	-6.49	115.46	121.36
1	hh	18	ARG	NE-CZ-NH2	6.49	125.04	119.20
1	hC	86	VAL	CA-CB-CG1	6.49	121.43	110.40
1	iv	162	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	iz	221	VAL	CA-C-O	-6.49	113.10	120.95
1	iA	16	SER	CA-C-N	6.49	126.11	119.56
1	iA	16	SER	C-N-CA	6.49	126.11	119.56
1	j0	153	ILE	O-C-N	-6.49	115.75	122.63
1	jh	90	PRO	N-CA-C	6.49	125.84	112.47
1	jr	16	SER	N-CA-C	6.49	118.82	109.48
1	jC	16	SER	O-C-N	-6.49	116.06	121.38
1	k1	73	ILE	CA-C-N	6.49	129.30	120.54
1	k1	73	ILE	C-N-CA	6.49	129.30	120.54
1	kh	84	HIS	CE1-NE2-CD2	-6.49	102.51	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	67	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	lm	194	ALA	O-C-N	-6.49	115.67	122.94
1	lC	18	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	lI	24	VAL	O-C-N	6.49	128.65	121.90
1	lJ	137	GLY	O-C-N	-6.49	115.96	122.19
1	2a	105	ALA	N-CA-CB	-6.49	100.66	110.91
1	2z	164	TYR	N-CA-C	6.49	118.35	111.28
1	2T	38	PRO	CB-CA-C	6.49	121.58	112.11
1	3c	37	ILE	N-CA-CB	-6.49	106.41	110.50
1	3F	80	TRP	N-CA-C	6.49	118.43	111.36
1	3R	173	ARG	N-CA-C	6.49	118.01	111.07
1	4f	163	ASP	O-C-N	-6.49	115.24	122.12
1	4g	121	ASN	CB-CA-C	-6.49	100.43	110.62
1	4t	71	GLU	N-CA-C	6.49	118.35	111.28
1	53	110	THR	CA-CB-OG1	6.49	119.33	109.60
1	56	132	ARG	NE-CZ-NH2	6.49	125.04	119.20
1	5G	64	ALA	N-CA-C	6.49	118.01	111.07
1	5N	80	TRP	CB-CG-CD2	-6.49	117.72	126.80
1	5V	208	ALA	N-CA-C	-6.49	105.29	113.72
1	6s	47	ALA	CA-C-O	6.49	127.37	120.36
1	6y	132	ARG	N-CA-C	6.49	118.35	111.28
1	6B	15	ILE	O-C-N	-6.49	115.60	122.67
1	6F	82	ARG	CB-CA-C	-6.49	100.69	110.88
1	6S	181	VAL	O-C-N	-6.49	115.45	121.94
1	7G	126	VAL	N-CA-C	6.49	117.27	110.72
1	8p	166	ASP	CA-CB-CG	6.49	119.09	112.60
1	8t	125	PRO	CA-C-N	6.49	133.65	121.97
1	8t	125	PRO	C-N-CA	6.49	133.65	121.97
1	8x	57	ASN	CA-CB-CG	-6.49	106.11	112.60
1	8P	27	VAL	N-CA-C	6.49	116.65	110.42
1	8W	42	ALA	CA-C-N	6.49	131.71	120.68
1	8W	42	ALA	C-N-CA	6.49	131.71	120.68
1	94	57	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	9f	121	ASN	CA-CB-CG	-6.49	106.11	112.60
1	9t	182	LYS	N-CA-C	6.49	118.35	111.28
1	9B	29	GLU	O-C-N	6.49	128.75	122.07
1	9I	225	GLY	O-C-N	-6.49	115.88	122.17
1	9M	128	GLU	O-C-N	-6.49	115.24	122.12
1	9W	90	PRO	CA-C-N	6.49	133.65	121.97
1	9W	90	PRO	C-N-CA	6.49	133.65	121.97
1	10	101	GLY	CA-C-O	6.49	127.43	120.75
1	ax	72	THR	O-C-N	-6.49	115.39	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	154	ARG	NE-CZ-NH2	6.49	125.04	119.20
1	bK	186	THR	O-C-N	-6.49	115.34	122.09
1	c9	124	ILE	CA-C-O	-6.49	115.49	119.12
1	cm	111	LEU	CA-C-N	6.49	129.62	120.28
1	cm	111	LEU	C-N-CA	6.49	129.62	120.28
1	dd	33	SER	CA-C-O	-6.49	114.37	120.34
1	dd	116	GLY	CA-C-N	6.49	129.26	120.44
1	dd	116	GLY	C-N-CA	6.49	129.26	120.44
1	dO	74	ASN	OD1-CG-ND2	6.49	129.09	122.60
1	e3	75	GLU	N-CA-C	6.49	118.35	111.28
1	ei	96	MET	CG-SD-CE	-6.49	86.62	100.90
1	ep	177	ALA	N-CA-CB	-6.49	100.83	110.17
1	eq	160	PRO	CA-C-O	-6.49	114.16	121.43
1	1t	209	ALA	N-CA-CB	-6.49	101.16	110.44
1	fu	104	ILE	CB-CA-C	6.49	120.28	111.97
1	h	208	ALA	CA-C-N	6.49	129.97	120.82
1	h	208	ALA	C-N-CA	6.49	129.97	120.82
1	C	230	VAL	N-CA-CB	6.49	118.55	111.41
1	4	103	ASP	CA-CB-CG	-6.49	106.11	112.60
1	4	111	LEU	CA-C-O	6.49	127.63	120.82
1	V	54	THR	N-CA-C	6.49	118.01	111.07
1	W	153	ILE	N-CA-CB	6.49	118.22	110.95
1	gh	189	LEU	O-C-N	-6.49	115.24	122.12
1	1E	33	SER	N-CA-C	6.49	113.84	108.07
1	gE	30	LYS	CA-C-N	6.49	129.30	120.54
1	gE	30	LYS	C-N-CA	6.49	129.30	120.54
1	hl	41	SER	CA-C-O	6.49	127.43	120.55
1	hT	36	VAL	N-CA-C	6.49	117.24	110.62
1	i2	126	VAL	CA-C-N	6.49	127.14	119.94
1	i2	126	VAL	C-N-CA	6.49	127.14	119.94
1	iM	134	ILE	N-CA-C	6.49	117.24	110.62
1	jD	208	ALA	CA-C-N	6.49	130.98	121.31
1	jD	208	ALA	C-N-CA	6.49	130.98	121.31
1	k5	50	GLN	O-C-N	6.49	129.00	122.12
1	kH	129	ILE	CA-C-O	6.49	127.73	120.85
1	lq	27	VAL	N-CA-C	6.49	117.17	110.36
1	2e	131	LYS	O-C-N	-6.49	115.39	122.07
1	44	97	ARG	O-C-N	-6.49	114.89	122.87
1	56	4	GLN	O-C-N	-6.49	116.48	123.42
1	5b	103	ASP	N-CA-CB	-6.49	101.96	110.59
1	5l	105	ALA	CA-C-O	-6.49	110.62	119.12
1	5B	229	ARG	N-CA-C	6.49	119.77	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6P	128	GLU	N-CA-C	6.49	118.01	111.07
1	7w	217	ALA	CA-C-O	-6.49	113.69	120.70
1	8p	42	ALA	CA-C-N	6.49	133.03	122.65
1	8p	42	ALA	C-N-CA	6.49	133.03	122.65
1	8K	84	HIS	ND1-CE1-NE2	6.49	114.89	108.40
1	9n	62	HIS	CA-CB-CG	-6.49	107.31	113.80
1	9N	83	LEU	N-CA-C	-6.49	105.19	113.23
1	a7	180	GLU	N-CA-C	6.49	118.35	111.28
1	a9	166	ASP	CA-C-N	6.49	129.30	120.54
1	a9	166	ASP	C-N-CA	6.49	129.30	120.54
1	aN	215	MET	CB-CA-C	6.49	122.20	110.72
1	aP	45	GLU	CA-C-O	6.49	127.84	120.90
1	bv	210	THR	CA-C-N	6.49	130.17	120.31
1	bv	210	THR	C-N-CA	6.49	130.17	120.31
1	bB	53	ASN	O-C-N	-6.49	115.24	122.12
1	cD	102	SER	CA-C-N	6.49	129.26	120.44
1	cD	102	SER	C-N-CA	6.49	129.26	120.44
1	cL	219	GLN	N-CA-CB	-6.49	101.08	110.36
1	1h	159	GLU	CA-C-N	6.49	127.95	119.84
1	1h	159	GLU	C-N-CA	6.49	127.95	119.84
1	cX	28	GLU	CA-C-O	6.49	127.38	120.70
1	d6	133	TRP	CA-C-N	6.49	129.63	120.42
1	d6	133	TRP	C-N-CA	6.49	129.63	120.42
1	dI	151	LEU	CA-C-N	6.49	128.97	120.28
1	dI	151	LEU	C-N-CA	6.49	128.97	120.28
1	e2	27	VAL	N-CA-C	6.49	116.65	110.42
1	ee	202	LEU	N-CA-C	6.49	118.01	111.07
1	eJ	226	HIS	CB-CG-CD2	-6.49	122.77	131.20
1	eO	47	ALA	CA-C-O	6.49	127.12	120.24
1	f5	169	TYR	CA-C-N	6.49	128.97	120.28
1	f5	169	TYR	C-N-CA	6.49	128.97	120.28
1	f8	126	VAL	O-C-N	6.49	128.16	121.87
1	fb	226	HIS	N-CA-C	6.49	118.89	111.11
1	fs	108	THR	CA-C-O	6.49	127.30	120.42
1	fy	48	THR	N-CA-CB	6.49	117.88	110.03
1	fI	121	ASN	OD1-CG-ND2	6.49	129.09	122.60
1	a	109	SER	N-CA-CB	6.49	119.72	110.44
1	x	42	ALA	N-CA-C	6.49	118.35	111.28
1	D	181	VAL	CB-CA-C	-6.49	103.38	112.14
1	E	24	VAL	O-C-N	-6.49	115.55	121.91
1	gl	41	SER	O-C-N	-6.49	114.76	122.15
1	gl	141	ILE	CA-C-N	6.49	129.34	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gl	141	ILE	C-N-CA	6.49	129.34	120.46
1	gt	79	GLU	CA-C-N	6.49	128.97	120.28
1	gt	79	GLU	C-N-CA	6.49	128.97	120.28
1	gS	103	ASP	N-CA-C	6.49	118.35	111.28
1	hi	50	GLN	CA-C-N	6.49	129.26	120.44
1	hi	50	GLN	C-N-CA	6.49	129.26	120.44
1	il	193	ASN	CA-CB-CG	-6.49	106.11	112.60
1	ix	87	HIS	CE1-NE2-CD2	-6.49	102.52	109.00
1	1T	224	PRO	N-CA-CB	-6.49	97.54	103.31
1	ju	188	THR	CA-C-N	6.49	128.97	120.28
1	ju	188	THR	C-N-CA	6.49	128.97	120.28
1	jv	172	LEU	CA-C-N	6.49	128.97	120.28
1	jv	172	LEU	C-N-CA	6.49	128.97	120.28
1	jI	121	ASN	CA-C-O	-6.49	112.81	119.49
1	k6	188	THR	CB-CA-C	6.49	122.23	112.31
1	k7	226	HIS	CA-C-O	6.49	126.90	119.18
1	km	84	HIS	N-CA-C	6.49	118.90	109.04
1	kB	6	LEU	N-CA-C	6.49	119.39	110.24
1	kI	11	VAL	CA-C-O	6.49	128.49	121.36
1	kV	102	SER	CA-C-O	6.49	127.30	120.42
1	ln	132	ARG	O-C-N	-6.49	115.25	122.12
1	2m	226	HIS	ND1-CE1-NE2	6.49	114.89	108.40
1	2A	37	ILE	CA-C-O	-6.49	111.26	119.95
1	2E	51	ASP	N-CA-C	-6.49	104.13	111.07
1	3C	150	ILE	N-CA-C	6.49	117.24	110.62
1	46	48	THR	CA-C-O	6.49	127.77	120.70
1	48	78	ALA	N-CA-C	6.49	118.01	111.07
1	49	164	TYR	N-CA-C	6.49	118.43	111.36
1	4L	71	GLU	N-CA-C	6.49	118.35	111.28
1	5w	221	VAL	O-C-N	-6.49	115.85	123.05
1	5y	13	GLN	CB-CG-CD	6.49	123.62	112.60
1	65	84	HIS	CB-CG-CD2	-6.49	122.77	131.20
1	65	230	VAL	N-CA-C	6.49	117.94	109.58
1	6c	147	PRO	CA-C-N	6.49	129.92	120.71
1	6c	147	PRO	C-N-CA	6.49	129.92	120.71
1	6y	54	THR	CA-CB-CG2	6.49	121.53	110.50
1	6O	150	ILE	O-C-N	-6.49	115.32	121.87
1	6V	8	GLY	O-C-N	-6.49	116.37	123.05
1	73	97	ARG	N-CA-C	6.49	119.63	110.23
1	7g	195	ASN	CA-C-N	6.49	126.25	119.05
1	7g	195	ASN	C-N-CA	6.49	126.25	119.05
1	7u	202	LEU	CA-C-N	6.49	128.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7u	202	LEU	C-N-CA	6.49	128.97	120.28
1	7B	143	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	7R	159	GLU	CB-CG-CD	-6.49	101.57	112.60
1	8L	185	MET	O-C-N	-6.49	115.29	122.03
1	8U	139	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	95	221	VAL	O-C-N	6.49	128.16	121.87
1	9L	16	SER	N-CA-C	6.49	117.88	109.64
1	9R	15	ILE	N-CA-C	6.49	117.40	108.84
1	9V	2	ILE	N-CA-CB	6.49	120.07	111.25
1	9W	76	GLU	N-CA-C	6.49	119.34	111.82
1	af	56	LEU	N-CA-C	6.49	118.01	111.07
1	ak	192	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	aF	136	LEU	CA-C-N	6.49	127.13	120.00
1	aF	136	LEU	C-N-CA	6.49	127.13	120.00
1	aS	85	PRO	CA-C-N	6.49	131.20	122.90
1	aS	85	PRO	C-N-CA	6.49	131.20	122.90
1	bl	84	HIS	CE1-NE2-CD2	-6.49	102.52	109.00
1	bu	50	GLN	CB-CG-CD	6.49	123.62	112.60
1	bK	88	ALA	N-CA-C	6.49	118.93	110.43
1	bX	135	ILE	N-CA-C	6.49	117.23	110.62
1	c1	197	ASP	CA-C-O	6.49	127.41	119.11
1	cb	113	GLU	CA-C-N	6.49	128.87	120.44
1	cb	113	GLU	C-N-CA	6.49	128.87	120.44
1	cd	40	PHE	CA-CB-CG	6.49	120.29	113.80
1	1e	132	ARG	CA-C-N	6.49	129.50	120.29
1	1e	132	ARG	C-N-CA	6.49	129.50	120.29
1	cq	147	PRO	N-CA-C	6.49	121.52	111.21
1	cs	188	THR	CA-C-N	6.49	129.62	120.28
1	cs	188	THR	C-N-CA	6.49	129.62	120.28
1	cL	186	THR	O-C-N	-6.49	115.34	122.09
1	cR	155	GLN	CB-CG-CD	6.49	123.62	112.60
1	dC	194	ALA	N-CA-C	6.49	120.08	110.48
1	dE	217	ALA	O-C-N	-6.49	115.64	123.16
1	dG	79	GLU	CA-C-N	6.49	128.87	120.44
1	dG	79	GLU	C-N-CA	6.49	128.87	120.44
1	1n	143	ARG	NE-CZ-NH1	6.49	127.99	121.50
1	dY	155	GLN	OE1-CD-NE2	-6.49	116.11	122.60
1	eq	81	ASP	N-CA-C	6.49	118.35	111.28
1	f7	194	ALA	N-CA-C	6.49	119.63	110.23
1	f9	23	TRP	O-C-N	-6.49	115.25	122.12
1	f9	209	ALA	O-C-N	-6.49	114.01	122.77
1	ft	47	ALA	N-CA-C	6.49	119.88	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fG	47	ALA	CA-C-O	-6.49	114.06	121.19
1	fI	185	MET	CA-C-N	6.49	130.17	120.31
1	fI	185	MET	C-N-CA	6.49	130.17	120.31
1	g1	55	MET	CA-C-O	6.49	127.38	120.70
1	b	195	ASN	OD1-CG-ND2	-6.49	116.11	122.60
1	b	224	PRO	CA-C-N	6.49	132.48	120.87
1	b	224	PRO	C-N-CA	6.49	132.48	120.87
1	e	87	HIS	CA-CB-CG	-6.49	107.31	113.80
1	M	18	ARG	NH1-CZ-NH2	-6.49	110.87	119.30
1	gO	120	HIS	ND1-CE1-NE2	6.48	114.88	108.40
1	gU	198	CYS	CA-C-O	6.48	127.19	119.60
1	h0	175	GLU	N-CA-CB	6.48	119.57	110.04
1	h9	128	GLU	N-CA-C	6.48	118.01	111.07
1	ha	226	HIS	N-CA-C	-6.48	105.50	113.41
1	i0	48	THR	CA-C-N	6.48	126.71	119.32
1	i0	48	THR	C-N-CA	6.48	126.71	119.32
1	if	191	VAL	CB-CA-C	-6.48	103.67	111.97
1	iw	195	ASN	CA-C-N	6.48	126.06	119.19
1	iw	195	ASN	C-N-CA	6.48	126.06	119.19
1	jD	87	HIS	CA-C-O	6.48	127.60	119.95
1	kA	175	GLU	CB-CG-CD	6.48	123.62	112.60
1	kW	82	ARG	NE-CZ-NH2	-6.48	113.36	119.20
1	lC	98	GLU	O-C-N	-6.48	115.39	121.35
1	2O	160	PRO	CA-C-N	6.48	129.26	120.38
1	2O	160	PRO	C-N-CA	6.48	129.26	120.38
1	3V	88	ALA	N-CA-C	6.48	119.38	110.24
1	40	2	ILE	O-C-N	-6.48	115.60	122.67
1	4k	121	ASN	CA-C-O	-6.48	113.33	119.55
1	4P	18	ARG	N-CA-C	6.48	118.89	111.11
1	5s	11	VAL	CA-C-N	6.48	131.12	121.72
1	5s	11	VAL	C-N-CA	6.48	131.12	121.72
1	5B	71	GLU	CA-C-N	6.48	128.87	120.44
1	5B	71	GLU	C-N-CA	6.48	128.87	120.44
1	5G	159	GLU	CA-C-O	-6.48	114.47	119.46
1	6C	166	ASP	CA-C-O	-6.48	114.01	120.82
1	6Z	94	GLY	N-CA-C	6.48	118.95	111.36
1	7e	52	LEU	CA-C-N	6.48	128.97	120.28
1	7e	52	LEU	C-N-CA	6.48	128.97	120.28
1	9H	83	LEU	O-C-N	-6.48	115.14	122.08
1	ak	163	ASP	CA-CB-CG	6.48	119.08	112.60
1	aK	105	ALA	CA-C-O	6.48	127.13	119.28
1	14	9	GLN	OE1-CD-NE2	-6.48	116.12	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bq	58	THR	O-C-N	-6.48	114.30	122.27
1	bU	176	GLN	CA-C-N	6.48	133.93	121.54
1	bU	176	GLN	C-N-CA	6.48	133.93	121.54
1	1d	218	CYS	CA-C-O	6.48	128.35	120.57
1	cF	160	PRO	N-CA-CB	6.48	110.06	103.25
1	d7	72	THR	N-CA-C	6.48	118.01	111.07
1	d8	52	LEU	CA-C-N	6.48	128.87	120.44
1	d8	52	LEU	C-N-CA	6.48	128.87	120.44
1	dj	154	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	dI	23	TRP	CB-CG-CD2	6.48	135.88	126.80
1	el	183	ASN	O-C-N	-6.48	114.76	122.15
1	fT	41	SER	N-CA-C	6.48	118.01	111.07
1	g	128	GLU	N-CA-C	6.48	118.35	111.28
1	2	202	LEU	N-CA-C	6.48	118.93	111.02
1	hK	36	VAL	N-CA-C	6.48	118.01	110.62
1	i3	11	VAL	N-CA-C	6.48	117.18	108.11
1	i9	161	PHE	O-C-N	-6.48	114.76	122.15
1	iv	10	MET	N-CA-CB	6.48	120.30	110.45
1	1Q	115	ILE	O-C-N	-6.48	115.58	121.87
1	j1	163	ASP	CA-CB-CG	6.48	119.08	112.60
1	jm	92	GLU	O-C-N	-6.48	114.40	121.53
1	jn	33	SER	N-CA-C	6.48	117.87	109.64
1	24	131	LYS	N-CA-C	6.48	119.17	111.33
1	24	186	THR	N-CA-CB	6.48	119.75	110.16
1	kQ	10	MET	CA-C-O	6.48	128.10	120.58
1	lt	128	GLU	CB-CG-CD	6.48	123.62	112.60
1	lz	153	ILE	CB-CA-C	6.48	121.92	111.29
1	lO	160	PRO	CA-C-N	6.48	129.21	120.65
1	lO	160	PRO	C-N-CA	6.48	129.21	120.65
1	2y	198	CYS	CA-C-N	6.48	128.97	120.28
1	2y	198	CYS	C-N-CA	6.48	128.97	120.28
1	2Y	226	HIS	CG-CD2-NE2	6.48	113.68	107.20
1	3q	24	VAL	O-C-N	-6.48	115.56	121.91
1	3J	47	ALA	CA-C-O	6.48	128.93	121.47
1	5D	141	ILE	CB-CA-C	-6.48	103.58	111.88
1	5Z	31	ALA	O-C-N	-6.48	114.81	122.20
1	67	50	GLN	CA-C-N	6.48	129.50	120.29
1	67	50	GLN	C-N-CA	6.48	129.50	120.29
1	69	200	THR	N-CA-C	6.48	118.35	111.28
1	6k	226	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	7d	207	PRO	CA-C-N	6.48	128.87	120.44
1	7d	207	PRO	C-N-CA	6.48	128.87	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7i	167	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	7m	68	MET	CA-C-N	6.48	128.97	120.28
1	7m	68	MET	C-N-CA	6.48	128.97	120.28
1	7o	55	MET	CA-C-N	6.48	128.87	120.44
1	7o	55	MET	C-N-CA	6.48	128.87	120.44
1	7t	181	VAL	CA-C-N	6.48	129.29	120.54
1	7t	181	VAL	C-N-CA	6.48	129.29	120.54
1	7J	24	VAL	N-CA-C	6.48	117.23	110.62
1	7K	168	PHE	CA-CB-CG	6.48	120.28	113.80
1	80	220	GLY	O-C-N	-6.48	115.31	122.50
1	82	91	ILE	N-CA-C	6.48	118.96	109.63
1	8h	210	THR	N-CA-CB	6.48	119.71	110.44
1	8Z	120	HIS	ND1-CE1-NE2	6.48	114.88	108.40
1	9c	212	GLU	N-CA-CB	6.48	119.65	110.12
1	9k	221	VAL	O-C-N	-6.48	116.33	123.20
1	9w	189	LEU	CA-C-N	6.48	128.97	120.28
1	9w	189	LEU	C-N-CA	6.48	128.97	120.28
1	9S	176	GLN	CA-C-O	6.48	126.83	119.18
1	ag	166	ASP	CB-CA-C	6.48	121.55	110.79
1	12	99	PRO	CA-C-O	-6.48	114.17	121.43
1	ay	146	SER	CA-C-O	-6.48	111.28	120.16
1	aJ	82	ARG	N-CA-C	6.48	119.16	111.71
1	b0	229	ARG	CD-NE-CZ	6.48	133.48	124.40
1	bk	114	GLN	CA-C-N	6.48	129.67	120.53
1	bk	114	GLN	C-N-CA	6.48	129.67	120.53
1	bH	73	ILE	CA-CB-CG1	6.48	121.42	110.40
1	c0	190	LEU	N-CA-C	6.48	118.01	111.07
1	c3	121	ASN	CB-CA-C	6.48	118.17	109.42
1	1c	47	ALA	N-CA-C	6.48	119.63	110.23
1	co	158	LYS	CA-C-O	6.48	126.18	119.05
1	cE	38	PRO	CA-C-N	6.48	129.26	120.44
1	cE	38	PRO	C-N-CA	6.48	129.26	120.44
1	1g	10	MET	N-CA-CB	6.48	121.44	110.49
1	df	101	GLY	CA-C-N	6.48	129.50	120.29
1	df	101	GLY	C-N-CA	6.48	129.50	120.29
1	dh	118	MET	N-CA-C	6.48	118.34	111.28
1	dA	110	THR	CA-C-N	6.48	130.54	120.82
1	dA	110	THR	C-N-CA	6.48	130.54	120.82
1	dK	55	MET	CA-C-N	6.48	128.87	120.44
1	dK	55	MET	C-N-CA	6.48	128.87	120.44
1	dP	39	MET	N-CA-C	6.48	118.89	111.11
1	dS	98	GLU	CA-C-N	6.48	126.87	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dS	98	GLU	C-N-CA	6.48	126.87	119.93
1	em	195	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	ey	89	GLY	CA-C-N	6.48	126.51	119.90
1	ey	89	GLY	C-N-CA	6.48	126.51	119.90
1	eE	20	LEU	N-CA-C	6.48	118.01	111.07
1	eS	75	GLU	CB-CG-CD	6.48	123.62	112.60
1	eV	39	MET	CA-C-N	6.48	128.87	120.44
1	eV	39	MET	C-N-CA	6.48	128.87	120.44
1	fe	6	LEU	N-CA-C	6.48	119.17	111.71
1	fr	5	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	1z	4	GLN	O-C-N	-6.48	111.37	122.20
1	fU	172	LEU	CA-C-N	6.48	130.16	120.31
1	fU	172	LEU	C-N-CA	6.48	130.16	120.31
1	fZ	91	ILE	CB-CA-C	6.48	121.11	111.26
1	m	80	TRP	CA-C-N	6.48	128.87	120.44
1	m	80	TRP	C-N-CA	6.48	128.87	120.44
1	v	187	GLU	CA-C-N	6.48	129.45	120.63
1	v	187	GLU	C-N-CA	6.48	129.45	120.63
1	C	5	ASN	CA-CB-CG	-6.48	106.12	112.60
1	I	178	SER	N-CA-CB	6.48	120.00	109.69
1	5	68	MET	N-CA-C	6.48	118.35	111.28
1	gl	183	ASN	CA-CB-CG	-6.48	106.12	112.60
1	gA	139	ASN	N-CA-C	6.48	118.34	111.28
1	gY	111	LEU	CA-C-N	6.48	128.96	120.28
1	gY	111	LEU	C-N-CA	6.48	128.96	120.28
1	h1	87	HIS	ND1-CE1-NE2	6.48	114.88	108.40
1	h8	140	LYS	N-CA-C	6.48	118.34	111.28
1	hh	132	ARG	NE-CZ-NH2	-6.48	113.37	119.20
1	hq	37	ILE	CB-CA-C	-6.48	107.48	114.35
1	hN	142	VAL	CA-C-O	6.48	128.04	121.17
1	hO	24	VAL	CA-C-O	6.48	127.72	120.85
1	hT	229	ARG	N-CA-C	-6.48	105.30	113.72
1	ic	71	GLU	CB-CA-C	-6.48	100.03	110.79
1	im	168	PHE	CA-C-O	6.48	127.62	120.82
1	iG	181	VAL	CA-C-N	6.48	129.49	120.29
1	iG	181	VAL	C-N-CA	6.48	129.49	120.29
1	iO	140	LYS	N-CA-C	-6.48	104.14	111.07
1	iQ	152	ASP	O-C-N	-6.48	114.29	122.26
1	iV	10	MET	CB-CA-C	6.48	120.13	109.70
1	1T	221	VAL	N-CA-C	6.48	117.36	107.77
1	jb	69	LEU	N-CA-C	6.48	118.89	111.11
1	jA	4	GLN	CB-CG-CD	6.48	123.62	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jM	80	TRP	CA-C-N	6.48	129.49	120.29
1	jM	80	TRP	C-N-CA	6.48	129.49	120.29
1	jV	143	ARG	CA-C-O	6.48	127.42	120.55
1	k8	141	ILE	N-CA-CB	6.48	119.35	110.54
1	kd	58	THR	N-CA-C	6.48	118.42	111.36
1	kg	66	MET	CG-SD-CE	-6.48	86.64	100.90
1	kF	36	VAL	N-CA-C	6.48	117.23	110.62
1	kL	166	ASP	N-CA-C	6.48	119.16	111.71
1	l5	12	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	l8	179	GLN	OE1-CD-NE2	-6.48	116.12	122.60
1	la	74	ASN	CA-CB-CG	-6.48	106.12	112.60
1	lg	48	THR	CA-C-N	6.48	125.98	119.24
1	lg	48	THR	C-N-CA	6.48	125.98	119.24
1	lr	160	PRO	N-CA-C	6.48	121.38	111.34
1	ls	139	ASN	CA-CB-CG	6.48	119.08	112.60
1	lv	55	MET	N-CA-C	6.48	118.00	111.07
1	2f	223	GLY	CA-C-O	-6.48	112.25	121.52
1	2n	57	ASN	CA-CB-CG	-6.48	106.12	112.60
1	2H	55	MET	N-CA-C	6.48	118.00	111.07
1	2I	171	THR	CA-C-N	6.48	129.29	120.54
1	2I	171	THR	C-N-CA	6.48	129.29	120.54
1	33	121	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	3e	226	HIS	CB-CG-CD2	6.48	139.62	131.20
1	3t	23	TRP	CA-C-N	6.48	128.85	120.56
1	3t	23	TRP	C-N-CA	6.48	128.85	120.56
1	3R	10	MET	O-C-N	-6.48	115.83	123.41
1	4b	33	SER	O-C-N	-6.48	114.73	121.60
1	4i	231	LEU	CB-CA-C	6.48	122.41	110.10
1	4k	126	VAL	N-CA-C	6.48	118.01	110.62
1	4n	98	GLU	CA-C-N	6.48	127.94	119.84
1	4n	98	GLU	C-N-CA	6.48	127.94	119.84
1	4B	106	GLY	CA-C-N	6.48	128.97	120.28
1	4B	106	GLY	C-N-CA	6.48	128.97	120.28
1	4N	90	PRO	N-CA-CB	6.48	108.76	103.32
1	51	197	ASP	CA-CB-CG	-6.48	106.12	112.60
1	55	16	SER	CA-C-N	6.48	126.11	119.56
1	55	16	SER	C-N-CA	6.48	126.11	119.56
1	5o	121	ASN	OD1-CG-ND2	6.48	129.08	122.60
1	5x	35	GLU	CA-C-N	6.48	129.62	120.42
1	5x	35	GLU	C-N-CA	6.48	129.62	120.42
1	66	177	ALA	CA-C-O	-6.48	114.50	121.56
1	6i	7	GLN	CA-C-O	6.48	127.44	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6x	168	PHE	N-CA-C	6.48	118.89	111.11
1	79	40	PHE	CA-C-O	-6.48	113.97	120.90
1	79	166	ASP	N-CA-CB	6.48	119.47	110.07
1	7h	57	ASN	CA-CB-CG	-6.48	106.12	112.60
1	7m	144	MET	N-CA-CB	6.48	119.65	110.12
1	7q	2	ILE	CB-CA-C	6.48	120.01	111.33
1	7B	135	ILE	CB-CA-C	6.48	120.89	112.14
1	7L	174	ALA	N-CA-C	-6.48	105.00	113.17
1	82	36	VAL	CA-C-N	6.48	124.32	120.24
1	82	36	VAL	C-N-CA	6.48	124.32	120.24
1	8c	108	THR	O-C-N	-6.48	113.58	122.46
1	8x	80	TRP	O-C-N	-6.48	115.25	122.12
1	8D	40	PHE	CB-CA-C	6.48	121.05	110.88
1	90	140	LYS	CA-C-N	6.48	128.73	120.56
1	90	140	LYS	C-N-CA	6.48	128.73	120.56
1	90	171	THR	N-CA-C	6.48	118.34	111.28
1	9y	11	VAL	CA-C-N	6.48	129.91	120.71
1	9y	11	VAL	C-N-CA	6.48	129.91	120.71
1	a4	155	GLN	N-CA-C	6.48	119.62	109.96
1	a5	166	ASP	CA-C-N	6.48	128.87	120.44
1	a5	166	ASP	C-N-CA	6.48	128.87	120.44
1	aC	177	ALA	N-CA-C	6.48	119.16	110.35
1	aT	47	ALA	CA-C-N	6.48	130.52	120.60
1	aT	47	ALA	C-N-CA	6.48	130.52	120.60
1	bg	185	MET	CA-C-O	6.48	127.62	120.82
1	br	229	ARG	NE-CZ-NH2	6.48	125.03	119.20
1	bW	39	MET	CA-C-N	6.48	128.96	120.28
1	bW	39	MET	C-N-CA	6.48	128.96	120.28
1	bW	171	THR	N-CA-C	-6.48	104.52	112.88
1	co	156	GLY	N-CA-C	6.48	119.78	112.00
1	cs	160	PRO	N-CA-C	6.48	121.39	111.15
1	cx	192	GLN	N-CA-CB	6.48	119.65	110.12
1	cB	83	LEU	CA-C-O	6.48	126.27	119.14
1	dd	113	GLU	CA-C-N	6.48	128.96	120.28
1	dd	113	GLU	C-N-CA	6.48	128.96	120.28
1	1k	59	VAL	N-CA-CB	6.48	118.28	110.31
1	1m	183	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	dK	107	THR	N-CA-CB	6.48	119.47	110.07
1	dM	16	SER	CA-C-O	-6.48	113.16	119.51
1	dV	119	THR	CA-C-O	6.48	126.27	119.14
1	e1	65	ALA	O-C-N	-6.48	114.76	122.15
1	e5	54	THR	O-C-N	-6.48	115.25	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	126	VAL	N-CA-C	6.48	116.64	110.42
1	ei	93	PRO	CA-C-O	-6.48	114.26	121.32
1	el	167	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	em	191	VAL	CA-CB-CG1	6.48	121.42	110.40
1	ep	191	VAL	N-CA-CB	6.48	117.68	110.62
1	eD	123	PRO	CA-C-N	-6.48	116.28	123.02
1	eD	123	PRO	C-N-CA	-6.48	116.28	123.02
1	eM	169	TYR	CB-CG-CD2	-6.48	111.08	120.80
1	fo	65	ALA	N-CA-CB	-6.48	100.24	110.28
1	fr	7	GLN	N-CA-C	-6.48	104.62	113.30
1	fr	58	THR	CA-C-O	6.48	126.85	119.27
1	1x	162	ARG	N-CA-C	-6.48	105.19	113.23
1	fD	97	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	l	21	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	v	226	HIS	CG-CD2-NE2	6.48	113.68	107.20
1	w	200	THR	CA-C-O	-6.48	113.68	120.55
1	A	207	PRO	CA-C-N	6.48	131.33	122.19
1	A	207	PRO	C-N-CA	6.48	131.33	122.19
1	Q	213	GLU	N-CA-C	6.48	118.34	111.28
1	ge	24	VAL	N-CA-C	6.48	116.64	110.42
1	gq	137	GLY	O-C-N	6.48	128.47	122.19
1	gw	100	ARG	NH1-CZ-NH2	-6.48	110.88	119.30
1	h1	120	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	hp	122	PRO	CA-C-N	6.48	126.85	119.92
1	hp	122	PRO	C-N-CA	6.48	126.85	119.92
1	iH	123	PRO	CB-CA-C	6.48	119.79	111.56
1	ji	226	HIS	CB-CA-C	6.48	120.40	109.84
1	k0	6	LEU	N-CA-C	6.48	118.66	110.24
1	lt	163	ASP	N-CA-C	-6.48	103.72	111.69
1	lM	4	GLN	O-C-N	-6.48	113.97	122.59
1	2h	21	ASN	CA-C-N	6.48	129.49	120.29
1	2h	21	ASN	C-N-CA	6.48	129.49	120.29
1	3S	161	PHE	O-C-N	-6.48	115.40	122.07
1	54	112	GLN	O-C-N	6.48	128.99	122.12
1	5S	87	HIS	N-CA-C	6.48	118.92	110.43
1	69	13	GLN	CA-C-N	6.48	130.31	121.05
1	69	13	GLN	C-N-CA	6.48	130.31	121.05
1	6g	98	GLU	O-C-N	-6.48	116.07	121.38
1	7e	105	ALA	CA-C-N	6.48	131.76	122.63
1	7e	105	ALA	C-N-CA	6.48	131.76	122.63
1	7E	67	GLN	CA-C-N	6.48	128.96	120.28
1	7E	67	GLN	C-N-CA	6.48	128.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	84	97	ARG	NE-CZ-NH2	-6.48	113.37	119.20
1	8Y	199	LYS	N-CA-C	6.48	120.44	112.54
1	98	37	ILE	CA-C-N	6.48	126.06	119.19
1	98	37	ILE	C-N-CA	6.48	126.06	119.19
1	a4	57	ASN	O-C-N	-6.48	113.97	122.39
1	aE	22	ALA	N-CA-C	6.48	118.34	111.28
1	aW	137	GLY	N-CA-C	6.48	120.02	112.50
1	bD	202	LEU	CA-C-N	6.48	129.49	120.29
1	bD	202	LEU	C-N-CA	6.48	129.49	120.29
1	bX	75	GLU	N-CA-C	6.48	119.34	111.82
1	cl	36	VAL	CA-C-N	6.48	125.51	120.33
1	cl	36	VAL	C-N-CA	6.48	125.51	120.33
1	cq	17	PRO	CA-C-N	6.48	130.16	120.31
1	cq	17	PRO	C-N-CA	6.48	130.16	120.31
1	cZ	23	TRP	O-C-N	-6.48	115.35	122.09
1	dq	120	HIS	ND1-CG-CD2	-6.48	99.62	106.10
1	dS	125	PRO	CA-C-N	6.48	129.34	120.46
1	dS	125	PRO	C-N-CA	6.48	129.34	120.46
1	e2	143	ARG	CA-C-N	6.48	130.16	120.31
1	e2	143	ARG	C-N-CA	6.48	130.16	120.31
1	ei	157	PRO	N-CA-CB	6.48	110.05	103.25
1	fk	163	ASP	CA-C-N	6.48	128.96	120.28
1	fk	163	ASP	C-N-CA	6.48	128.96	120.28
1	fq	102	SER	N-CA-C	6.48	118.34	111.28
1	fs	168	PHE	N-CA-C	6.48	118.92	111.02
1	ft	195	ASN	CA-C-N	6.48	127.94	119.84
1	ft	195	ASN	C-N-CA	6.48	127.94	119.84
1	1x	40	PHE	CA-C-O	-6.48	113.97	120.90
1	r	142	VAL	CA-C-N	6.48	128.86	120.44
1	r	142	VAL	C-N-CA	6.48	128.86	120.44
1	S	70	LYS	CA-C-O	-6.48	113.68	120.55
1	gh	11	VAL	O-C-N	-6.48	116.08	123.07
1	gk	162	ARG	NE-CZ-NH2	-6.48	113.37	119.20
1	gS	133	TRP	N-CA-C	-6.48	104.14	111.14
1	1G	89	GLY	CA-C-N	6.48	127.94	119.84
1	1G	89	GLY	C-N-CA	6.48	127.94	119.84
1	h2	225	GLY	CA-C-N	6.48	128.86	120.44
1	h2	225	GLY	C-N-CA	6.48	128.86	120.44
1	hh	185	MET	N-CA-CB	6.48	119.40	110.01
1	hq	194	ALA	N-CA-C	6.48	119.16	110.35
1	hU	3	VAL	O-C-N	-6.48	115.57	122.95
1	iq	4	GLN	O-C-N	-6.48	114.99	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	169	TYR	N-CA-C	6.48	118.34	111.28
1	iv	40	PHE	N-CA-C	6.48	118.00	111.07
1	iA	52	LEU	N-CA-C	6.48	118.34	111.28
1	iL	12	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	iQ	11	VAL	CA-C-O	6.48	127.65	120.59
1	iV	28	GLU	CA-C-N	6.48	129.49	120.29
1	iV	28	GLU	C-N-CA	6.48	129.49	120.29
1	iW	56	LEU	N-CA-C	6.48	118.00	111.07
1	iX	84	HIS	CA-C-N	6.48	127.94	119.84
1	iX	84	HIS	C-N-CA	6.48	127.94	119.84
1	j7	141	ILE	O-C-N	-6.48	115.56	121.91
1	jC	173	ARG	O-C-N	-6.48	115.25	122.12
1	jT	132	ARG	N-CA-C	6.48	118.34	111.28
1	jU	33	SER	O-C-N	-6.48	116.23	121.80
1	jU	92	GLU	CA-C-N	6.48	126.50	119.89
1	jU	92	GLU	C-N-CA	6.48	126.50	119.89
1	kc	84	HIS	CA-C-N	6.48	126.43	119.76
1	kc	84	HIS	C-N-CA	6.48	126.43	119.76
1	kn	90	PRO	N-CA-C	6.48	121.41	111.11
1	24	211	LEU	CA-C-N	6.48	129.61	120.28
1	24	211	LEU	C-N-CA	6.48	129.61	120.28
1	kP	73	ILE	CB-CA-C	6.48	120.51	112.02
1	ld	208	ALA	O-C-N	-6.48	114.52	122.55
1	27	50	GLN	CA-C-N	6.48	128.96	120.28
1	27	50	GLN	C-N-CA	6.48	128.96	120.28
1	lt	104	ILE	O-C-N	-6.48	115.56	121.91
1	lK	181	VAL	O-C-N	-6.48	115.16	121.83
1	lM	73	ILE	N-CA-CB	6.48	123.19	110.95
1	2D	32	PHE	CA-C-O	6.48	127.69	120.43
1	2T	195	ASN	N-CA-C	6.48	117.05	109.60
1	30	183	ASN	CA-C-N	6.48	128.96	120.28
1	30	183	ASN	C-N-CA	6.48	128.96	120.28
1	3r	29	GLU	N-CA-C	6.48	119.30	111.40
1	4f	21	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	4i	7	GLN	N-CA-C	-6.48	104.95	112.92
1	4w	229	ARG	N-CA-C	6.48	119.16	110.35
1	4A	201	ILE	N-CA-C	6.48	117.23	110.62
1	4K	200	THR	N-CA-C	-6.48	104.30	111.36
1	4P	170	LYS	CA-C-O	-6.48	113.68	120.55
1	4V	191	VAL	CB-CA-C	-6.48	103.56	112.04
1	4Z	111	LEU	CA-C-N	6.48	128.96	120.28
1	4Z	111	LEU	C-N-CA	6.48	128.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	218	CYS	N-CA-CB	6.48	121.44	110.49
1	55	84	HIS	CA-C-N	6.48	126.51	119.90
1	55	84	HIS	C-N-CA	6.48	126.51	119.90
1	57	19	THR	N-CA-C	6.48	118.34	111.28
1	61	8	GLY	CA-C-O	-6.48	116.61	122.57
1	6q	76	GLU	CA-C-N	6.48	129.25	120.44
1	6q	76	GLU	C-N-CA	6.48	129.25	120.44
1	6R	193	ASN	CA-C-O	6.48	126.89	119.18
1	7m	143	ARG	CA-CB-CG	6.48	127.06	114.10
1	7n	73	ILE	O-C-N	-6.48	115.56	121.91
1	7B	79	GLU	N-CA-C	6.48	118.34	111.28
1	7M	117	TRP	O-C-N	-6.48	115.40	122.07
1	7N	27	VAL	O-C-N	-6.48	115.59	121.87
1	7Z	197	ASP	CA-CB-CG	6.48	119.08	112.60
1	8g	89	GLY	CA-C-N	6.48	127.94	119.84
1	8g	89	GLY	C-N-CA	6.48	127.94	119.84
1	8w	71	GLU	N-CA-C	6.48	118.34	111.28
1	8G	198	CYS	O-C-N	-6.48	114.56	122.20
1	8P	84	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	8X	150	ILE	O-C-N	-6.48	115.54	121.89
1	8Y	28	GLU	N-CA-C	6.48	120.92	112.89
1	93	212	GLU	CA-C-N	6.48	129.49	120.29
1	93	212	GLU	C-N-CA	6.48	129.49	120.29
1	9u	203	LYS	N-CA-C	6.48	118.34	111.28
1	Y	213	GLU	O-C-N	-6.48	115.09	122.09
1	9Q	175	GLU	O-C-N	-6.48	114.84	122.81
1	ag	186	THR	N-CA-CB	6.48	119.85	110.20
1	aC	64	ALA	CA-C-O	6.48	127.29	120.42
1	13	80	TRP	CB-CG-CD2	6.48	135.87	126.80
1	aS	67	GLN	O-C-N	-6.48	114.33	122.17
1	17	218	CYS	N-CA-C	-6.48	104.68	112.58
1	bl	31	ALA	CB-CA-C	-6.48	109.09	116.54
1	bp	200	THR	CB-CA-C	6.48	121.05	110.88
1	bH	111	LEU	O-C-N	-6.48	114.64	122.22
1	bH	185	MET	N-CA-C	6.48	118.00	111.07
1	bO	12	HIS	CA-CB-CG	6.48	120.28	113.80
1	bS	56	LEU	CA-C-O	6.48	127.57	120.90
1	bT	126	VAL	N-CA-C	6.48	118.00	110.62
1	c7	152	ASP	CA-CB-CG	-6.48	106.12	112.60
1	ch	20	LEU	CA-C-N	6.48	128.86	120.44
1	ch	20	LEU	C-N-CA	6.48	128.86	120.44
1	cp	168	PHE	CA-CB-CG	6.48	120.28	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cF	119	THR	CA-C-O	6.48	127.59	119.95
1	1h	28	GLU	N-CA-C	6.48	118.88	111.11
1	cY	159	GLU	N-CA-CB	-6.48	100.55	110.01
1	cZ	127	GLY	O-C-N	-6.48	115.96	122.18
1	dk	159	GLU	CA-C-N	6.48	126.51	119.90
1	dk	159	GLU	C-N-CA	6.48	126.51	119.90
1	dq	84	HIS	O-C-N	-6.48	115.37	122.17
1	1l	12	HIS	CB-CA-C	6.48	120.42	109.80
1	1p	12	HIS	CB-CA-C	6.48	119.49	110.16
1	ev	154	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	eT	134	ILE	CA-C-N	6.48	128.72	120.56
1	eT	134	ILE	C-N-CA	6.48	128.72	120.56
1	fe	102	SER	N-CA-C	6.48	118.00	111.07
1	fh	121	ASN	CA-C-O	-6.48	114.54	119.59
1	4	148	THR	O-C-N	-6.48	113.97	122.59
1	gv	112	GLN	CA-C-N	6.48	128.86	120.44
1	gv	112	GLN	C-N-CA	6.48	128.86	120.44
1	gU	62	HIS	N-CA-C	6.48	120.11	111.30
1	h2	85	PRO	CA-C-O	-6.48	114.18	121.43
1	h8	65	ALA	CA-C-N	6.48	128.86	120.44
1	h8	65	ALA	C-N-CA	6.48	128.86	120.44
1	hd	186	THR	CA-CB-CG2	6.48	121.51	110.50
1	hC	21	ASN	CA-C-N	6.48	128.96	120.28
1	hC	21	ASN	C-N-CA	6.48	128.96	120.28
1	hT	183	ASN	OD1-CG-ND2	-6.48	116.12	122.60
1	ig	170	LYS	N-CA-C	6.48	118.00	111.07
1	1Z	37	ILE	N-CA-CB	6.48	115.50	110.45
1	kd	125	PRO	N-CD-CG	6.48	112.91	103.20
1	kR	97	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	l4	50	GLN	N-CA-C	6.48	118.88	111.11
1	ln	40	PHE	CB-CG-CD2	-6.48	109.69	120.70
1	2l	32	PHE	O-C-N	-6.48	115.84	123.22
1	2F	199	LYS	CA-C-N	6.48	129.25	120.38
1	2F	199	LYS	C-N-CA	6.48	129.25	120.38
1	2G	142	VAL	N-CA-C	6.48	117.22	110.62
1	37	33	SER	CA-C-O	-6.48	111.29	120.16
1	4l	141	ILE	N-CA-CB	-6.48	101.73	110.54
1	4L	154	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	4W	12	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
1	4Z	210	THR	CA-C-O	6.48	129.35	122.03
1	53	100	ARG	NE-CZ-NH1	6.48	127.98	121.50
1	5Z	84	HIS	CE1-NE2-CD2	-6.48	102.52	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6T	176	GLN	CA-C-N	6.48	130.53	120.75
1	6T	176	GLN	C-N-CA	6.48	130.53	120.75
1	6W	20	LEU	N-CA-C	6.48	118.00	111.07
1	7i	37	ILE	N-CA-C	6.48	120.12	112.35
1	80	5	ASN	CA-CB-CG	-6.48	106.12	112.60
1	8p	95	GLN	OE1-CD-NE2	6.48	129.08	122.60
1	8H	88	ALA	O-C-N	-6.48	115.46	123.04
1	8S	25	LYS	CA-C-N	6.48	128.72	120.56
1	8S	25	LYS	C-N-CA	6.48	128.72	120.56
1	91	76	GLU	N-CA-C	6.48	118.00	111.07
1	9r	201	ILE	CA-C-N	6.48	128.96	120.28
1	9r	201	ILE	C-N-CA	6.48	128.96	120.28
1	9Z	15	ILE	CA-C-O	6.48	129.44	121.54
1	a3	86	VAL	O-C-N	6.48	128.35	122.65
1	aG	65	ALA	CA-C-N	6.48	131.49	121.19
1	aG	65	ALA	C-N-CA	6.48	131.49	121.19
1	b8	76	GLU	N-CA-C	6.48	119.16	111.71
1	c8	163	ASP	N-CA-C	-6.48	104.15	111.14
1	ct	171	THR	CA-C-N	6.48	128.86	120.44
1	ct	171	THR	C-N-CA	6.48	128.86	120.44
1	dA	112	GLN	N-CA-C	6.48	118.34	111.28
1	1m	199	LYS	N-CA-C	6.48	119.17	111.33
1	dQ	31	ALA	N-CA-C	6.48	120.04	111.75
1	eq	102	SER	CA-C-N	6.48	128.96	120.28
1	eq	102	SER	C-N-CA	6.48	128.96	120.28
1	et	136	LEU	CA-C-N	6.48	127.31	119.99
1	et	136	LEU	C-N-CA	6.48	127.31	119.99
1	eB	66	MET	N-CA-C	6.48	119.17	111.33
1	eX	129	ILE	N-CA-C	6.48	117.26	110.72
1	f0	50	GLN	O-C-N	-6.48	115.26	122.12
1	g9	173	ARG	CA-C-N	6.47	128.86	120.44
1	g9	173	ARG	C-N-CA	6.47	128.86	120.44
1	gz	84	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	gB	130	TYR	O-C-N	6.47	129.08	122.09
1	gH	25	LYS	N-CA-C	6.47	118.34	111.28
1	ha	19	THR	N-CA-CB	6.47	119.64	110.12
1	ha	131	LYS	CA-C-N	6.47	129.28	120.54
1	ha	131	LYS	C-N-CA	6.47	129.28	120.54
1	ho	67	GLN	N-CA-C	6.47	118.34	111.28
1	hv	181	VAL	CA-CB-CG1	-6.47	99.39	110.40
1	hF	30	LYS	CA-C-N	6.47	129.83	120.38
1	hF	30	LYS	C-N-CA	6.47	129.83	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hS	203	LYS	CA-C-N	6.47	132.47	121.14
1	hS	203	LYS	C-N-CA	6.47	132.47	121.14
1	hZ	120	HIS	CA-CB-CG	-6.47	107.33	113.80
1	i3	100	ARG	CA-C-N	6.47	127.13	119.94
1	i3	100	ARG	C-N-CA	6.47	127.13	119.94
1	iz	19	THR	N-CA-C	6.47	118.00	111.07
1	j5	106	GLY	CA-C-N	6.47	131.48	121.19
1	j5	106	GLY	C-N-CA	6.47	131.48	121.19
1	j8	168	PHE	O-C-N	-6.47	115.26	122.12
1	j9	194	ALA	N-CA-CB	-6.47	99.40	109.69
1	ji	6	LEU	O-C-N	-6.47	113.98	122.59
1	jm	62	HIS	CA-CB-CG	-6.47	107.33	113.80
1	jC	166	ASP	CA-CB-CG	6.47	119.08	112.60
1	jW	208	ALA	O-C-N	-6.47	114.25	122.34
1	20	117	TRP	N-CA-C	6.47	118.00	111.07
1	kg	100	ARG	CA-C-N	6.47	127.17	119.98
1	kg	100	ARG	C-N-CA	6.47	127.17	119.98
1	kB	42	ALA	CA-C-N	6.47	130.15	120.31
1	kB	42	ALA	C-N-CA	6.47	130.15	120.31
1	kD	211	LEU	CA-C-N	6.47	128.96	120.28
1	kD	211	LEU	C-N-CA	6.47	128.96	120.28
1	kZ	143	ARG	CA-C-N	6.47	128.86	120.44
1	kZ	143	ARG	C-N-CA	6.47	128.86	120.44
1	lc	166	ASP	CA-C-N	6.47	128.86	120.44
1	lc	166	ASP	C-N-CA	6.47	128.86	120.44
1	lg	58	THR	CA-CB-OG1	6.47	119.31	109.60
1	lg	173	ARG	NE-CZ-NH2	-6.47	113.37	119.20
1	lr	166	ASP	CA-C-O	6.47	127.37	120.70
1	lv	37	ILE	CA-C-O	-6.47	114.35	118.69
1	lw	52	LEU	CA-C-N	6.47	129.49	120.29
1	lw	52	LEU	C-N-CA	6.47	129.49	120.29
1	lw	194	ALA	CA-C-N	6.47	129.39	120.39
1	lw	194	ALA	C-N-CA	6.47	129.39	120.39
1	lC	26	VAL	CA-C-N	6.47	128.72	120.56
1	lC	26	VAL	C-N-CA	6.47	128.72	120.56
1	lD	48	THR	CA-CB-OG1	6.47	119.31	109.60
1	lP	67	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	2f	3	VAL	CA-C-N	6.47	133.91	121.54
1	2f	3	VAL	C-N-CA	6.47	133.91	121.54
1	2w	2	ILE	O-C-N	-6.47	116.19	123.18
1	2B	132	ARG	N-CA-C	6.47	120.44	112.54
1	2N	199	LYS	CA-C-N	6.47	129.49	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2N	199	LYS	C-N-CA	6.47	129.49	120.29
1	2R	77	ALA	CA-C-N	6.47	128.96	120.28
1	2R	77	ALA	C-N-CA	6.47	128.96	120.28
1	36	204	ALA	CA-C-N	6.47	129.60	120.28
1	36	204	ALA	C-N-CA	6.47	129.60	120.28
1	3A	169	TYR	CA-C-N	6.47	128.86	120.44
1	3A	169	TYR	C-N-CA	6.47	128.86	120.44
1	3L	15	ILE	N-CA-C	6.47	118.11	109.37
1	3L	209	ALA	CB-CA-C	-6.47	99.27	109.70
1	41	26	VAL	N-CA-CB	6.47	119.35	110.54
1	4i	111	LEU	CA-C-N	6.47	129.25	120.38
1	4i	111	LEU	C-N-CA	6.47	129.25	120.38
1	4l	79	GLU	CA-C-N	6.47	128.86	120.44
1	4l	79	GLU	C-N-CA	6.47	128.86	120.44
1	4r	33	SER	CA-C-O	-6.47	112.70	120.41
1	4B	92	GLU	CA-C-N	6.47	127.93	119.84
1	4B	92	GLU	C-N-CA	6.47	127.93	119.84
1	52	4	GLN	N-CA-CB	6.47	121.55	111.71
1	5p	198	CYS	N-CA-CB	6.47	119.40	110.01
1	5C	173	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	5J	98	GLU	CB-CG-CD	6.47	123.61	112.60
1	5N	10	MET	CG-SD-CE	-6.47	86.66	100.90
1	5N	86	VAL	N-CA-C	6.47	117.39	108.84
1	6l	149	SER	CA-C-N	6.47	129.61	120.42
1	6l	149	SER	C-N-CA	6.47	129.61	120.42
1	72	231	LEU	N-CA-CB	-6.47	99.49	110.50
1	7Z	3	VAL	CA-C-O	6.47	127.88	120.76
1	8x	73	ILE	N-CA-CB	6.47	118.13	110.55
1	8M	50	GLN	CA-C-O	6.47	127.62	120.63
1	8S	176	GLN	CA-C-N	6.47	133.91	121.54
1	8S	176	GLN	C-N-CA	6.47	133.91	121.54
1	8T	12	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	96	81	ASP	CA-CB-CG	-6.47	106.13	112.60
1	9c	62	HIS	CB-CG-ND1	-6.47	112.99	122.70
1	9A	12	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	9R	138	LEU	O-C-N	-6.47	115.10	122.09
1	9V	91	ILE	O-C-N	-6.47	115.71	122.25
1	9V	131	LYS	O-C-N	-6.47	115.26	122.12
1	ae	75	GLU	CA-C-N	6.47	129.49	120.29
1	ae	75	GLU	C-N-CA	6.47	129.49	120.29
1	11	69	LEU	N-CA-C	6.47	118.34	111.28
1	12	67	GLN	CB-CG-CD	6.47	123.61	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aC	84	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	b5	18	ARG	NE-CZ-NH2	6.47	125.03	119.20
1	bg	106	GLY	CA-C-O	6.47	125.90	119.04
1	bI	37	ILE	CA-C-N	6.47	126.05	119.19
1	bI	37	ILE	C-N-CA	6.47	126.05	119.19
1	bK	5	ASN	OD1-CG-ND2	-6.47	116.12	122.60
1	bM	200	THR	N-CA-CB	6.47	119.40	110.01
1	c2	121	ASN	CA-C-O	-6.47	113.53	119.62
1	c4	171	THR	CA-C-N	6.47	128.86	120.44
1	c4	171	THR	C-N-CA	6.47	128.86	120.44
1	cA	203	LYS	N-CA-CB	-6.47	100.60	110.12
1	1g	172	LEU	CA-C-O	-6.47	112.52	119.97
1	cL	76	GLU	CA-C-O	-6.47	113.69	120.55
1	da	80	TRP	CA-C-N	6.47	128.96	120.28
1	da	80	TRP	C-N-CA	6.47	128.96	120.28
1	da	203	LYS	N-CA-C	-6.47	104.30	111.36
1	dj	193	ASN	OD1-CG-ND2	-6.47	116.13	122.60
1	ee	63	GLN	N-CA-C	6.47	118.03	110.97
1	ei	226	HIS	CG-CD2-NE2	6.47	113.67	107.20
1	eF	62	HIS	O-C-N	-6.47	114.81	122.58
1	fd	92	GLU	N-CA-C	6.47	122.45	113.45
1	fx	191	VAL	N-CA-CB	6.47	118.13	110.55
1	fF	214	MET	N-CA-C	6.47	118.34	111.28
1	fT	112	GLN	N-CA-C	6.47	118.34	111.28
1	fW	28	GLU	N-CA-C	6.47	118.92	111.02
1	fW	181	VAL	CA-C-N	6.47	128.96	120.28
1	fW	181	VAL	C-N-CA	6.47	128.96	120.28
1	g3	57	ASN	CA-C-N	6.47	130.15	120.31
1	g3	57	ASN	C-N-CA	6.47	130.15	120.31
1	1	92	GLU	CA-C-N	6.47	126.50	119.90
1	1	92	GLU	C-N-CA	6.47	126.50	119.90
1	r	167	ARG	CA-C-N	6.47	129.20	120.65
1	r	167	ARG	C-N-CA	6.47	129.20	120.65
1	H	14	ALA	N-CA-C	6.47	119.62	110.23
1	ga	84	HIS	CB-CG-CD2	-6.47	122.78	131.20
1	gy	73	ILE	CA-C-O	-6.47	113.99	120.85
1	gP	176	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	hq	74	ASN	CA-CB-CG	-6.47	106.13	112.60
1	ht	18	ARG	N-CA-C	6.47	119.16	111.33
1	hw	98	GLU	O-C-N	-6.47	114.63	121.30
1	hC	92	GLU	O-C-N	-6.47	114.63	121.30
1	hS	37	ILE	CA-C-O	-6.47	113.79	118.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ir	145	TYR	O-C-N	-6.47	113.84	122.19
1	iu	203	LYS	CA-C-O	6.47	127.62	120.63
1	1R	164	TYR	N-CA-C	6.47	119.33	111.82
1	iP	155	GLN	N-CA-C	6.47	119.86	110.28
1	j5	23	TRP	CA-C-N	6.47	128.84	120.56
1	j5	23	TRP	C-N-CA	6.47	128.84	120.56
1	j8	204	ALA	CA-C-N	6.47	128.95	120.28
1	j8	204	ALA	C-N-CA	6.47	128.95	120.28
1	jc	17	PRO	N-CA-C	-6.47	105.09	113.57
1	jz	191	VAL	N-CA-C	6.47	118.05	111.00
1	jJ	26	VAL	N-CA-C	6.47	116.63	110.42
1	20	69	LEU	CA-C-N	6.47	128.95	120.28
1	20	69	LEU	C-N-CA	6.47	128.95	120.28
1	kk	152	ASP	CA-C-O	6.47	127.02	119.32
1	23	193	ASN	CA-C-N	6.47	131.10	120.94
1	23	193	ASN	C-N-CA	6.47	131.10	120.94
1	lp	35	GLU	CA-C-N	6.47	128.95	120.60
1	lp	35	GLU	C-N-CA	6.47	128.95	120.60
1	ls	170	LYS	N-CA-C	6.47	118.13	111.14
1	lR	162	ARG	NH1-CZ-NH2	-6.47	110.89	119.30
1	2s	202	LEU	CA-C-N	6.47	130.15	120.31
1	2s	202	LEU	C-N-CA	6.47	130.15	120.31
1	2P	227	LYS	O-C-N	-6.47	114.99	122.89
1	2X	23	TRP	CA-C-N	6.47	128.71	120.56
1	2X	23	TRP	C-N-CA	6.47	128.71	120.56
1	33	12	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	37	20	LEU	O-C-N	-6.47	115.26	122.12
1	3d	139	ASN	CA-CB-CG	6.47	119.07	112.60
1	3j	120	HIS	CA-CB-CG	6.47	120.27	113.80
1	3s	172	LEU	N-CA-C	-6.47	105.01	113.17
1	3G	5	ASN	CA-C-N	6.47	128.85	120.44
1	3G	5	ASN	C-N-CA	6.47	128.85	120.44
1	3M	3	VAL	CA-C-O	-6.47	114.11	121.75
1	3O	28	GLU	N-CA-C	6.47	118.33	111.28
1	4D	57	ASN	CA-CB-CG	-6.47	106.13	112.60
1	4U	126	VAL	CA-C-N	6.47	127.12	119.94
1	4U	126	VAL	C-N-CA	6.47	127.12	119.94
1	57	90	PRO	CA-C-O	-6.47	114.27	121.32
1	5e	11	VAL	N-CA-C	6.47	117.75	107.98
1	5o	163	ASP	CA-CB-CG	6.47	119.07	112.60
1	5Z	188	THR	CA-C-N	6.47	129.28	120.54
1	5Z	188	THR	C-N-CA	6.47	129.28	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6a	211	LEU	CA-C-N	6.47	129.28	120.54
1	6a	211	LEU	C-N-CA	6.47	129.28	120.54
1	6p	142	VAL	CA-C-N	6.47	128.95	120.28
1	6p	142	VAL	C-N-CA	6.47	128.95	120.28
1	6B	219	GLN	CA-C-N	6.47	134.10	121.41
1	6B	219	GLN	C-N-CA	6.47	134.10	121.41
1	6J	211	LEU	CB-CA-C	-6.47	100.05	110.79
1	78	50	GLN	O-C-N	6.47	129.53	122.15
1	7H	35	GLU	N-CA-C	-6.47	105.01	113.17
1	8f	62	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	92	226	HIS	CB-CG-ND1	6.47	132.41	122.70
1	9l	87	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	9o	226	HIS	CA-CB-CG	6.47	120.27	113.80
1	9v	62	HIS	CA-CB-CG	6.47	120.27	113.80
1	9F	95	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	9J	9	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	9K	45	GLU	N-CA-C	6.47	120.01	110.30
1	9S	154	ARG	NE-CZ-NH2	6.47	125.03	119.20
1	a5	102	SER	N-CA-C	-6.47	105.51	113.41
1	ae	152	ASP	CA-CB-CG	-6.47	106.13	112.60
1	at	94	GLY	O-C-N	-6.47	114.88	122.45
1	aL	62	HIS	ND1-CG-CD2	6.47	112.57	106.10
1	aO	112	GLN	N-CA-C	6.47	118.33	111.28
1	aU	175	GLU	CA-C-N	6.47	129.48	120.29
1	aU	175	GLU	C-N-CA	6.47	129.48	120.29
1	b0	183	ASN	N-CA-C	6.47	118.33	111.28
1	bc	16	SER	O-C-N	-6.47	115.54	121.30
1	bi	16	SER	CA-C-N	6.47	126.10	119.56
1	bi	16	SER	C-N-CA	6.47	126.10	119.56
1	bz	41	SER	N-CA-C	6.47	118.00	111.07
1	bE	199	LYS	N-CA-CB	6.47	120.19	110.22
1	bM	102	SER	N-CA-C	6.47	119.16	111.33
1	ce	156	GLY	N-CA-C	6.47	120.06	112.10
1	1e	37	ILE	O-C-N	-6.47	116.28	120.42
1	1f	84	HIS	N-CA-CB	6.47	119.90	110.32
1	cN	171	THR	CA-C-O	6.47	127.41	120.55
1	d5	89	GLY	O-C-N	-6.47	115.30	121.77
1	dy	12	HIS	CA-CB-CG	6.47	120.27	113.80
1	dB	189	LEU	CA-C-N	6.47	128.95	120.28
1	dB	189	LEU	C-N-CA	6.47	128.95	120.28
1	1o	146	SER	CA-C-N	6.47	127.93	119.84
1	1o	146	SER	C-N-CA	6.47	127.93	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e2	29	GLU	N-CA-C	6.47	118.13	111.14
1	e6	166	ASP	CA-CB-CG	6.47	119.07	112.60
1	1q	145	TYR	CB-CA-C	-6.47	99.62	110.56
1	ex	138	LEU	CA-C-N	6.47	129.60	120.28
1	ex	138	LEU	C-N-CA	6.47	129.60	120.28
1	1s	15	ILE	N-CA-C	6.47	117.93	109.58
1	eG	11	VAL	CA-C-O	6.47	127.60	120.48
1	eT	62	HIS	CA-C-N	6.47	129.60	120.28
1	eT	62	HIS	C-N-CA	6.47	129.60	120.28
1	f6	19	THR	N-CA-C	6.47	118.33	111.28
1	fg	192	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	fk	33	SER	CA-C-N	6.47	126.10	119.56
1	fk	33	SER	C-N-CA	6.47	126.10	119.56
1	1y	114	GLN	CA-C-N	6.47	129.66	120.53
1	1y	114	GLN	C-N-CA	6.47	129.66	120.53
1	fN	87	HIS	N-CA-C	6.47	119.75	110.10
1	g6	228	ALA	O-C-N	-6.47	114.41	122.24
1	x	21	ASN	CA-C-N	6.47	128.85	120.44
1	x	21	ASN	C-N-CA	6.47	128.85	120.44
1	x	226	HIS	CB-CG-CD2	-6.47	122.79	131.20
1	3	4	GLN	CA-C-N	6.47	133.68	122.81
1	3	4	GLN	C-N-CA	6.47	133.68	122.81
1	P	57	ASN	N-CA-CB	-6.47	100.54	110.44
1	R	11	VAL	CA-C-O	6.47	126.81	120.27
1	ga	87	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	gL	168	PHE	CA-CB-CG	-6.47	107.33	113.80
1	1F	210	THR	N-CA-CB	6.47	119.55	110.04
1	h5	33	SER	CA-C-N	6.47	127.30	120.12
1	h5	33	SER	C-N-CA	6.47	127.30	120.12
1	hp	139	ASN	CA-CB-CG	-6.47	106.13	112.60
1	hB	191	VAL	CA-C-O	6.47	127.63	119.48
1	hC	15	ILE	CA-C-O	6.47	128.64	121.13
1	hD	18	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	hJ	132	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	hK	177	ALA	N-CA-C	6.47	118.91	110.43
1	iV	128	GLU	N-CA-C	6.47	118.33	111.28
1	jl	213	GLU	CA-C-O	-6.47	114.03	120.82
1	jI	68	MET	CA-C-N	6.47	128.95	120.28
1	jI	68	MET	C-N-CA	6.47	128.95	120.28
1	ke	219	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	kQ	2	ILE	O-C-N	6.47	130.02	123.10
1	lt	12	HIS	ND1-CE1-NE2	6.47	114.87	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lO	209	ALA	N-CA-C	6.47	119.15	110.35
1	2D	153	ILE	N-CA-CB	6.47	120.29	110.58
1	2F	78	ALA	CA-C-N	6.47	128.95	120.28
1	2F	78	ALA	C-N-CA	6.47	128.95	120.28
1	2I	216	THR	N-CA-C	6.47	118.33	111.28
1	2R	74	ASN	CA-CB-CG	6.47	119.07	112.60
1	2W	185	MET	N-CA-CB	6.47	119.39	110.01
1	36	180	GLU	N-CA-C	6.47	118.88	111.11
1	3z	24	VAL	CA-C-O	6.47	127.46	120.47
1	3H	62	HIS	ND1-CG-CD2	6.47	112.57	106.10
1	4F	226	HIS	N-CA-CB	6.47	121.43	110.49
1	5Q	197	ASP	CA-C-O	6.47	127.41	120.55
1	6a	149	SER	CA-C-N	6.47	129.33	120.46
1	6a	149	SER	C-N-CA	6.47	129.33	120.46
1	9K	73	ILE	N-CA-C	6.47	118.00	110.62
1	9R	63	GLN	N-CA-C	6.47	118.33	111.28
1	a2	197	ASP	CA-CB-CG	-6.47	106.13	112.60
1	aa	59	VAL	O-C-N	-6.47	115.57	121.91
1	b1	115	ILE	N-CA-CB	6.47	118.12	110.55
1	b2	115	ILE	O-C-N	-6.47	115.59	121.87
1	co	180	GLU	CA-C-N	6.47	128.84	120.56
1	co	180	GLU	C-N-CA	6.47	128.84	120.56
1	cG	137	GLY	CA-C-N	6.47	128.95	120.28
1	cG	137	GLY	C-N-CA	6.47	128.95	120.28
1	d5	37	ILE	CA-C-O	-6.47	111.28	119.95
1	eo	133	TRP	CB-CG-CD2	-6.47	117.74	126.80
1	eU	24	VAL	CA-C-N	6.47	128.85	120.44
1	eU	24	VAL	C-N-CA	6.47	128.85	120.44
1	fa	78	ALA	CA-C-N	6.47	128.85	120.44
1	fa	78	ALA	C-N-CA	6.47	128.85	120.44
1	g	182	LYS	N-CA-C	6.47	118.33	111.28
1	1D	139	ASN	N-CA-CB	6.47	119.63	110.12
1	gt	197	ASP	CA-CB-CG	-6.47	106.13	112.60
1	gA	104	ILE	N-CA-C	6.47	117.25	110.72
1	gL	130	TYR	O-C-N	-6.47	114.77	122.15
1	hi	62	HIS	CA-CB-CG	-6.47	107.33	113.80
1	hn	4	GLN	CA-C-O	6.47	127.13	119.56
1	ho	154	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	hx	14	ALA	N-CA-CB	-6.47	101.01	110.26
1	i1	44	SER	CB-CA-C	-6.47	100.71	111.13
1	i7	80	TRP	N-CA-C	6.47	117.99	111.07
1	id	59	VAL	N-CA-CB	-6.47	104.54	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	is	115	ILE	O-C-N	-6.47	115.59	121.87
1	iC	132	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	iD	230	VAL	CA-C-O	6.47	127.60	120.48
1	iI	135	ILE	N-CA-C	-6.47	103.00	111.09
1	iR	161	PHE	CA-C-N	6.47	128.85	120.44
1	iR	161	PHE	C-N-CA	6.47	128.85	120.44
1	j4	96	MET	N-CA-C	6.47	124.58	110.80
1	jc	19	THR	CB-CA-C	-6.47	100.72	110.88
1	jt	15	ILE	N-CA-C	6.47	117.66	108.93
1	jG	132	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	jK	89	GLY	O-C-N	-6.47	115.30	121.77
1	jO	165	VAL	CA-C-N	6.47	128.85	120.44
1	jO	165	VAL	C-N-CA	6.47	128.85	120.44
1	k7	60	GLY	CA-C-N	6.47	130.62	121.30
1	k7	60	GLY	C-N-CA	6.47	130.62	121.30
1	kg	4	GLN	CG-CD-NE2	6.47	126.11	116.40
1	kv	26	VAL	CB-CA-C	-6.47	103.41	112.14
1	kA	35	GLU	CA-C-N	6.47	129.65	120.53
1	kA	35	GLU	C-N-CA	6.47	129.65	120.53
1	kB	98	GLU	CA-C-N	6.47	126.50	119.90
1	kB	98	GLU	C-N-CA	6.47	126.50	119.90
1	kE	41	SER	N-CA-C	6.47	117.99	111.07
1	kG	148	THR	N-CA-C	-6.47	107.24	114.62
1	kT	38	PRO	CA-C-N	6.47	128.85	120.44
1	kT	38	PRO	C-N-CA	6.47	128.85	120.44
1	l7	32	PHE	N-CA-C	6.47	120.59	111.92
1	l8	122	PRO	CA-C-N	-6.47	113.28	120.14
1	l8	122	PRO	C-N-CA	-6.47	113.28	120.14
1	l9	18	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	lb	84	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	lh	57	ASN	CB-CA-C	-6.47	100.72	110.88
1	lp	49	PRO	CA-C-N	6.47	128.95	120.28
1	lp	49	PRO	C-N-CA	6.47	128.95	120.28
1	lq	26	VAL	N-CA-CB	6.47	118.12	110.55
1	lA	87	HIS	CA-CB-CG	-6.47	107.33	113.80
1	lN	32	PHE	CA-CB-CG	-6.47	107.33	113.80
1	lQ	221	VAL	N-CA-C	-6.47	98.90	108.99
1	2o	58	THR	N-CA-CB	6.47	120.26	110.30
1	2E	97	ARG	CD-NE-CZ	6.47	133.46	124.40
1	3z	161	PHE	CG-CD2-CE2	6.47	131.70	120.70
1	3D	148	THR	N-CA-C	6.47	120.42	110.20
1	3K	98	GLU	CA-C-N	6.47	126.85	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3K	98	GLU	C-N-CA	6.47	126.85	119.93
1	3S	138	LEU	N-CA-C	6.47	118.33	111.28
1	4a	87	HIS	CG-CD2-NE2	6.47	113.67	107.20
1	4h	153	ILE	N-CA-C	-6.47	106.21	112.29
1	4j	220	GLY	CA-C-N	6.47	131.71	122.72
1	4j	220	GLY	C-N-CA	6.47	131.71	122.72
1	4k	100	ARG	O-C-N	-6.47	114.76	122.65
1	4p	226	HIS	CA-CB-CG	6.47	120.27	113.80
1	4s	133	TRP	CA-C-N	6.47	128.71	120.56
1	4s	133	TRP	C-N-CA	6.47	128.71	120.56
1	4E	225	GLY	N-CA-C	6.47	122.96	112.61
1	4U	146	SER	CA-C-N	6.47	126.49	119.89
1	4U	146	SER	C-N-CA	6.47	126.49	119.89
1	52	200	THR	N-CA-C	6.47	118.33	111.28
1	5u	110	THR	O-C-N	-6.47	115.69	122.94
1	5y	5	ASN	CA-C-O	6.47	128.09	120.20
1	5X	83	LEU	O-C-N	-6.47	113.60	122.46
1	63	101	GLY	O-C-N	-6.47	115.98	122.19
1	6o	6	LEU	N-CA-C	-6.47	105.39	113.28
1	6z	107	THR	N-CA-CB	6.47	121.20	110.33
1	77	184	TRP	CZ3-CH2-CZ2	-6.47	113.09	121.50
1	7t	104	ILE	N-CA-C	6.47	117.22	110.62
1	8e	222	GLY	N-CA-C	-6.47	106.39	115.32
1	8k	185	MET	O-C-N	-6.47	115.26	122.12
1	8s	84	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
1	9d	44	SER	CA-C-N	6.47	130.59	121.02
1	9d	44	SER	C-N-CA	6.47	130.59	121.02
1	9j	130	TYR	CA-C-O	6.47	127.41	120.55
1	9k	166	ASP	N-CA-CB	-6.47	100.63	110.01
1	9p	57	ASN	OD1-CG-ND2	-6.47	116.13	122.60
1	9C	164	TYR	CA-C-N	6.47	129.32	120.46
1	9C	164	TYR	C-N-CA	6.47	129.32	120.46
1	9E	98	GLU	CA-C-O	-6.47	114.76	120.19
1	9O	169	TYR	CB-CG-CD1	6.47	130.50	120.80
1	9U	221	VAL	CA-C-O	6.47	128.87	120.78
1	ad	212	GLU	CA-C-N	6.47	128.95	120.28
1	ad	212	GLU	C-N-CA	6.47	128.95	120.28
1	b1	126	VAL	N-CA-C	6.47	119.14	111.05
1	bb	155	GLN	CA-C-O	6.47	128.41	121.16
1	bh	123	PRO	CB-CA-C	6.47	119.81	111.46
1	18	78	ALA	CA-C-N	6.47	128.85	120.44
1	18	78	ALA	C-N-CA	6.47	128.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bC	128	GLU	CA-C-O	6.47	127.41	120.55
1	bQ	163	ASP	CA-C-N	6.47	129.78	120.79
1	bQ	163	ASP	C-N-CA	6.47	129.78	120.79
1	c5	68	MET	O-C-N	-6.47	115.26	122.12
1	c6	25	LYS	N-CA-C	6.47	118.33	111.28
1	cC	74	ASN	OD1-CG-ND2	-6.47	116.13	122.60
1	1g	202	LEU	CA-C-N	6.47	128.95	120.28
1	1g	202	LEU	C-N-CA	6.47	128.95	120.28
1	cR	64	ALA	N-CA-C	6.47	118.33	111.28
1	cT	130	TYR	CA-CB-CG	6.47	125.55	113.90
1	cZ	36	VAL	CA-C-O	6.47	127.68	120.95
1	da	13	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	dE	27	VAL	O-C-N	-6.47	115.47	121.94
1	e8	97	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	ei	7	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	ej	24	VAL	O-C-N	-6.47	115.59	121.87
1	ez	191	VAL	CA-C-N	6.47	130.14	120.31
1	ez	191	VAL	C-N-CA	6.47	130.14	120.31
1	eA	81	ASP	CA-C-N	6.47	128.95	120.28
1	eA	81	ASP	C-N-CA	6.47	128.95	120.28
1	eP	141	ILE	CA-C-O	-6.47	114.54	121.27
1	1t	179	GLN	N-CA-C	6.47	119.16	111.33
1	fl	143	ARG	CA-C-O	6.47	127.28	120.42
1	fu	185	MET	N-CA-C	6.47	119.16	111.33
1	fQ	95	GLN	O-C-N	-6.47	115.60	123.30
1	g4	99	PRO	N-CA-CB	-6.47	97.32	103.34
1	g	132	ARG	NE-CZ-NH2	6.47	125.02	119.20
1	i	216	THR	CA-C-N	6.47	128.85	120.44
1	i	216	THR	C-N-CA	6.47	128.85	120.44
1	3	20	LEU	O-C-N	-6.47	115.26	122.12
1	1C	33	SER	CA-C-O	-6.47	113.65	120.70
1	1C	117	TRP	CB-CA-C	-6.47	100.05	110.79
1	h3	62	HIS	ND1-CE1-NE2	6.47	114.87	108.40
1	hm	202	LEU	N-CA-C	6.47	118.33	111.28
1	hn	225	GLY	CA-C-O	-6.47	114.24	121.94
1	hA	10	MET	CA-C-N	6.47	129.17	120.50
1	hA	10	MET	C-N-CA	6.47	129.17	120.50
1	1O	100	ARG	CA-C-N	6.47	127.30	119.99
1	1O	100	ARG	C-N-CA	6.47	127.30	119.99
1	iB	149	SER	CA-C-N	6.47	131.66	120.86
1	iB	149	SER	C-N-CA	6.47	131.66	120.86
1	jb	37	ILE	N-CA-CB	-6.47	106.42	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jg	79	GLU	N-CA-C	6.47	118.33	111.28
1	jz	143	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	lo	18	ARG	CA-C-O	6.47	127.28	120.42
1	34	146	SER	N-CA-C	6.47	122.34	113.16
1	37	48	THR	CA-C-N	6.47	126.69	119.32
1	37	48	THR	C-N-CA	6.47	126.69	119.32
1	3X	71	GLU	CA-C-O	-6.47	113.69	120.55
1	3Z	202	LEU	CA-C-N	6.47	128.85	120.44
1	3Z	202	LEU	C-N-CA	6.47	128.85	120.44
1	4Q	9	GLN	OE1-CD-NE2	6.47	129.07	122.60
1	4T	146	SER	CA-C-O	-6.47	113.63	120.23
1	5K	215	MET	CG-SD-CE	-6.47	86.67	100.90
1	7w	185	MET	CA-C-N	6.47	128.95	120.28
1	7w	185	MET	C-N-CA	6.47	128.95	120.28
1	7H	119	THR	N-CA-C	-6.47	105.31	113.72
1	8h	119	THR	CA-C-O	-6.47	111.60	119.43
1	8s	173	ARG	N-CA-C	-6.47	105.54	113.50
1	8C	18	ARG	N-CA-C	6.47	118.33	111.28
1	a8	124	ILE	N-CA-C	6.47	115.68	108.05
1	ai	159	GLU	O-C-N	-6.47	114.64	121.30
1	av	197	ASP	N-CA-C	6.47	118.33	111.28
1	b5	11	VAL	O-C-N	-6.47	114.75	122.77
1	c0	47	ALA	N-CA-C	6.47	119.75	110.24
1	cz	25	LYS	O-C-N	-6.47	115.26	122.12
1	1f	204	ALA	N-CA-C	6.47	118.33	111.28
1	cD	198	CYS	O-C-N	-6.47	115.26	122.12
1	1h	93	PRO	N-CA-CB	6.47	108.75	103.32
1	da	55	MET	N-CA-C	6.47	118.33	111.28
1	db	96	MET	N-CA-C	6.47	118.41	111.36
1	ex	90	PRO	N-CA-C	6.47	121.80	111.26
1	eK	152	ASP	CA-C-N	6.47	130.58	122.43
1	eK	152	ASP	C-N-CA	6.47	130.58	122.43
1	fo	198	CYS	CA-C-N	6.47	128.85	120.44
1	fo	198	CYS	C-N-CA	6.47	128.85	120.44
1	f	77	ALA	N-CA-C	-6.47	104.15	111.07
1	t	116	GLY	CA-C-N	6.47	129.27	120.54
1	t	116	GLY	C-N-CA	6.47	129.27	120.54
1	gC	54	THR	O-C-N	-6.47	115.41	122.07
1	1F	84	HIS	CA-CB-CG	6.47	120.27	113.80
1	hu	70	LYS	N-CA-CB	6.47	119.63	110.12
1	hw	94	GLY	CA-C-N	6.47	132.13	121.39
1	hw	94	GLY	C-N-CA	6.47	132.13	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i9	68	MET	CA-C-N	6.47	128.85	120.44
1	i9	68	MET	C-N-CA	6.47	128.85	120.44
1	ih	123	PRO	CA-C-N	-6.47	117.93	122.59
1	ih	123	PRO	C-N-CA	-6.47	117.93	122.59
1	iu	217	ALA	O-C-N	-6.47	115.70	122.94
1	iG	186	THR	N-CA-C	6.47	118.33	111.28
1	iT	124	ILE	O-C-N	-6.47	116.42	121.46
1	1V	12	HIS	CB-CG-CD2	-6.47	122.79	131.20
1	jo	172	LEU	O-C-N	6.47	128.97	122.12
1	jJ	69	LEU	CA-C-N	6.47	128.94	120.28
1	jJ	69	LEU	C-N-CA	6.47	128.94	120.28
1	jN	125	PRO	CA-C-N	6.47	129.65	120.53
1	jN	125	PRO	C-N-CA	6.47	129.65	120.53
1	1Y	82	ARG	N-CA-C	6.47	118.33	111.28
1	k6	214	MET	CA-C-O	6.47	127.82	120.90
1	kE	158	LYS	CA-C-O	6.47	126.52	119.15
1	kE	220	GLY	CA-C-N	6.47	130.69	120.47
1	kE	220	GLY	C-N-CA	6.47	130.69	120.47
1	kV	92	GLU	CA-C-O	-6.47	112.07	118.34
1	l4	49	PRO	CA-C-N	6.47	129.27	120.54
1	l4	49	PRO	C-N-CA	6.47	129.27	120.54
1	28	85	PRO	N-CA-CB	6.47	108.75	103.32
1	lJ	136	LEU	CA-C-N	6.47	127.16	119.98
1	lJ	136	LEU	C-N-CA	6.47	127.16	119.98
1	2p	7	GLN	O-C-N	-6.47	114.86	122.81
1	2C	101	GLY	N-CA-C	-6.47	105.00	112.50
1	33	50	GLN	N-CA-C	6.47	118.33	111.28
1	3g	4	GLN	OE1-CD-NE2	6.47	129.07	122.60
1	3K	198	CYS	N-CA-C	6.47	118.41	111.36
1	41	154	ARG	NE-CZ-NH2	6.47	125.02	119.20
1	49	48	THR	OG1-CB-CG2	-6.47	96.37	109.30
1	4l	54	THR	N-CA-CB	6.47	119.39	110.01
1	4F	54	THR	OG1-CB-CG2	-6.47	96.37	109.30
1	4W	173	ARG	NE-CZ-NH2	-6.47	113.38	119.20
1	57	81	ASP	N-CA-CB	-6.47	99.66	110.39
1	5N	10	MET	O-C-N	-6.47	114.81	122.96
1	62	37	ILE	N-CA-C	6.47	120.11	112.35
1	6p	97	ARG	N-CA-C	6.47	119.40	110.35
1	6s	87	HIS	CG-CD2-NE2	6.47	113.67	107.20
1	77	125	PRO	CA-C-N	6.47	130.91	120.30
1	77	125	PRO	C-N-CA	6.47	130.91	120.30
1	7g	181	VAL	N-CA-C	6.47	117.22	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7i	206	GLY	O-C-N	6.47	128.24	121.77
1	7n	217	ALA	CA-C-N	6.47	131.79	122.35
1	7n	217	ALA	C-N-CA	6.47	131.79	122.35
1	7R	62	HIS	O-C-N	-6.47	115.21	122.91
1	8N	31	ALA	CB-CA-C	-6.47	107.29	116.34
1	8U	119	THR	N-CA-CB	6.47	119.58	109.94
1	9l	167	ARG	NE-CZ-NH1	6.47	127.97	121.50
1	9n	124	ILE	CA-C-O	6.47	124.17	119.25
1	9E	147	PRO	N-CA-C	6.47	121.23	111.14
1	a1	67	GLN	N-CA-C	6.47	119.15	111.71
1	a2	47	ALA	O-C-N	-6.47	115.85	123.22
1	a8	63	GLN	N-CA-C	6.47	118.12	111.14
1	ac	75	GLU	CA-C-N	6.47	129.47	120.29
1	ac	75	GLU	C-N-CA	6.47	129.47	120.29
1	am	169	TYR	O-C-N	-6.47	115.27	122.12
1	am	214	MET	N-CA-C	6.47	118.33	111.28
1	at	172	LEU	N-CA-C	6.47	120.89	113.19
1	b2	93	PRO	CB-CA-C	-6.47	103.35	111.56
1	bn	70	LYS	N-CA-C	6.47	118.33	111.28
1	bL	37	ILE	O-C-N	-6.47	113.73	121.10
1	bT	221	VAL	N-CA-C	6.47	117.22	110.62
1	c7	197	ASP	CA-CB-CG	6.47	119.07	112.60
1	cd	64	ALA	CA-C-O	6.47	127.61	120.82
1	cy	57	ASN	CA-CB-CG	-6.47	106.13	112.60
1	cM	162	ARG	CA-C-N	6.47	129.47	120.29
1	cM	162	ARG	C-N-CA	6.47	129.47	120.29
1	dp	67	GLN	OE1-CD-NE2	-6.47	116.13	122.60
1	dC	214	MET	CB-CA-C	-6.47	99.86	110.85
1	dV	17	PRO	N-CA-CB	6.47	109.49	103.41
1	dZ	133	TRP	N-CA-CB	6.47	119.73	110.16
1	ec	208	ALA	CA-C-N	6.47	132.46	120.95
1	ec	208	ALA	C-N-CA	6.47	132.46	120.95
1	ek	100	ARG	NH1-CZ-NH2	-6.47	110.89	119.30
1	eZ	148	THR	CA-C-O	-6.47	113.60	121.36
1	f5	62	HIS	ND1-CG-CD2	6.47	112.57	106.10
1	f5	107	THR	N-CA-CB	6.47	119.90	110.26
1	f6	104	ILE	O-C-N	-6.47	115.57	121.91
1	f8	85	PRO	N-CA-C	6.47	121.37	111.15
1	ff	6	LEU	CA-C-N	6.47	130.14	120.31
1	ff	6	LEU	C-N-CA	6.47	130.14	120.31
1	fn	37	ILE	CA-C-N	6.47	125.90	118.85
1	fn	37	ILE	C-N-CA	6.47	125.90	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	169	TYR	N-CA-C	6.47	118.87	111.11
1	g7	203	LYS	N-CA-C	6.47	118.87	111.11
1	N	170	LYS	CA-C-N	6.47	128.85	120.44
1	N	170	LYS	C-N-CA	6.47	128.85	120.44
1	S	63	GLN	N-CA-C	6.47	118.41	111.36
1	5	209	ALA	N-CA-C	6.47	119.85	110.28
1	gd	116	GLY	CA-C-O	6.46	127.41	120.75
1	gf	210	THR	O-C-N	-6.46	115.42	122.79
1	gn	202	LEU	N-CA-C	-6.46	104.28	111.71
1	gN	143	ARG	N-CA-C	6.46	117.99	111.07
1	h3	103	ASP	CA-CB-CG	-6.46	106.14	112.60
1	hc	196	PRO	CA-C-N	6.46	129.27	120.54
1	hc	196	PRO	C-N-CA	6.46	129.27	120.54
1	hF	89	GLY	CA-C-N	6.46	127.92	119.84
1	hF	89	GLY	C-N-CA	6.46	127.92	119.84
1	hJ	76	GLU	CA-C-N	6.46	129.23	120.44
1	hJ	76	GLU	C-N-CA	6.46	129.23	120.44
1	hY	162	ARG	CA-C-N	6.46	128.94	120.28
1	hY	162	ARG	C-N-CA	6.46	128.94	120.28
1	iP	19	THR	CA-CB-CG2	6.46	121.49	110.50
1	iP	226	HIS	CA-CB-CG	-6.46	107.33	113.80
1	iZ	98	GLU	CA-C-N	6.46	126.69	119.90
1	iZ	98	GLU	C-N-CA	6.46	126.69	119.90
1	j7	18	ARG	O-C-N	-6.46	115.41	122.07
1	1W	161	PHE	CA-C-O	6.46	127.61	120.82
1	jM	116	GLY	N-CA-C	6.46	120.00	112.50
1	k1	7	GLN	CB-CA-C	6.46	120.42	111.63
1	kc	19	THR	CA-C-O	6.46	127.61	120.82
1	ki	117	TRP	N-CA-C	6.46	118.33	111.28
1	kT	37	ILE	CA-C-O	6.46	123.02	118.69
1	kX	167	ARG	NE-CZ-NH1	6.46	127.97	121.50
1	l1	150	ILE	CA-CB-CG2	-6.46	99.51	110.50
1	2i	182	LYS	CA-C-N	6.46	129.23	120.44
1	2i	182	LYS	C-N-CA	6.46	129.23	120.44
1	2p	87	HIS	CE1-NE2-CD2	-6.46	102.53	109.00
1	2B	18	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	2E	173	ARG	NE-CZ-NH2	-6.46	113.38	119.20
1	2P	9	GLN	N-CA-CB	6.46	118.42	110.53
1	3I	53	ASN	CA-C-N	6.46	128.94	120.28
1	3I	53	ASN	C-N-CA	6.46	128.94	120.28
1	3I	89	GLY	CA-C-N	6.46	126.85	119.93
1	3I	89	GLY	C-N-CA	6.46	126.85	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	44	212	GLU	N-CA-C	6.46	118.87	111.11
1	4g	188	THR	OG1-CB-CG2	-6.46	96.37	109.30
1	4h	149	SER	N-CA-C	6.46	120.78	113.02
1	4k	125	PRO	N-CA-CB	-6.46	98.48	102.81
1	4p	118	MET	N-CA-C	6.46	119.32	111.82
1	4P	193	ASN	CA-C-N	6.46	130.94	121.31
1	4P	193	ASN	C-N-CA	6.46	130.94	121.31
1	54	196	PRO	CA-C-N	6.46	129.47	120.29
1	54	196	PRO	C-N-CA	6.46	129.47	120.29
1	55	47	ALA	O-C-N	-6.46	115.38	123.27
1	58	16	SER	CA-C-N	6.46	126.22	119.05
1	58	16	SER	C-N-CA	6.46	126.22	119.05
1	5g	149	SER	O-C-N	-6.46	115.38	123.27
1	5u	187	GLU	N-CA-C	6.46	117.99	111.07
1	5Q	116	GLY	O-C-N	-6.46	115.92	122.19
1	61	97	ARG	CA-C-N	6.46	129.67	120.49
1	61	97	ARG	C-N-CA	6.46	129.67	120.49
1	6g	123	PRO	CA-C-O	-6.46	113.97	121.86
1	6B	212	GLU	O-C-N	-6.46	113.67	122.33
1	6C	79	GLU	O-C-N	-6.46	115.27	122.12
1	6E	159	GLU	CA-C-O	-6.46	114.54	119.32
1	6F	84	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	6I	142	VAL	N-CA-C	6.46	117.25	110.72
1	74	105	ALA	N-CA-CB	-6.46	101.10	110.47
1	7A	93	PRO	N-CA-CB	6.46	108.47	103.30
1	7D	56	LEU	O-C-N	-6.46	114.78	122.15
1	80	160	PRO	N-CA-C	6.46	121.36	111.15
1	8L	217	ALA	CA-C-N	6.46	131.94	122.63
1	8L	217	ALA	C-N-CA	6.46	131.94	122.63
1	8Z	5	ASN	N-CA-C	-6.46	105.04	113.12
1	9r	164	TYR	N-CA-C	6.46	118.33	111.28
1	a4	214	MET	O-C-N	-6.46	115.27	122.12
1	a7	47	ALA	CA-C-O	-6.46	113.91	120.96
1	10	130	TYR	CA-C-N	6.46	129.24	120.38
1	10	130	TYR	C-N-CA	6.46	129.24	120.38
1	ac	70	LYS	CA-C-N	6.46	128.94	120.28
1	ac	70	LYS	C-N-CA	6.46	128.94	120.28
1	ad	145	TYR	CB-CG-CD2	-6.46	111.10	120.80
1	as	8	GLY	O-C-N	-6.46	116.08	122.41
1	aS	30	LYS	N-CA-C	6.46	117.99	111.07
1	aV	164	TYR	CA-C-N	6.46	129.32	120.46
1	aV	164	TYR	C-N-CA	6.46	129.32	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b7	20	LEU	N-CA-C	-6.46	104.16	111.14
1	cq	178	SER	CA-C-N	6.46	133.89	121.54
1	cq	178	SER	C-N-CA	6.46	133.89	121.54
1	cr	12	HIS	N-CA-CB	6.46	119.72	109.51
1	cy	82	ARG	N-CA-C	6.46	118.33	111.28
1	cT	84	HIS	CG-CD2-NE2	6.46	113.67	107.20
1	e5	97	ARG	CA-C-O	-6.46	113.55	121.11
1	em	80	TRP	CA-C-N	6.46	128.84	120.44
1	em	80	TRP	C-N-CA	6.46	128.84	120.44
1	ep	134	ILE	N-CA-CB	6.46	118.11	110.55
1	fn	39	MET	CA-C-N	6.46	128.84	120.44
1	fn	39	MET	C-N-CA	6.46	128.84	120.44
1	fS	146	SER	CA-C-O	6.46	125.70	119.62
1	g0	40	PHE	CA-C-N	6.46	128.84	120.44
1	g0	40	PHE	C-N-CA	6.46	128.84	120.44
1	M	200	THR	CA-CB-OG1	-6.46	99.90	109.60
1	8	54	THR	CA-C-O	6.46	127.82	120.90
1	hB	45	GLU	N-CA-C	6.46	119.74	110.24
1	it	33	SER	CA-C-O	-6.46	113.49	119.76
1	1R	131	LYS	N-CA-C	6.46	117.99	111.07
1	iR	188	THR	CA-C-N	6.46	128.84	120.44
1	iR	188	THR	C-N-CA	6.46	128.84	120.44
1	jc	172	LEU	O-C-N	-6.46	115.27	122.12
1	jC	62	HIS	ND1-CG-CD2	6.46	112.56	106.10
1	1X	92	GLU	CA-C-O	-6.46	111.31	120.16
1	jM	206	GLY	CA-C-N	6.46	126.22	119.05
1	jM	206	GLY	C-N-CA	6.46	126.22	119.05
1	jZ	53	ASN	CA-C-N	6.46	128.94	120.28
1	jZ	53	ASN	C-N-CA	6.46	128.94	120.28
1	k3	50	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	kr	203	LYS	CA-C-N	6.46	129.26	120.54
1	kr	203	LYS	C-N-CA	6.46	129.26	120.54
1	23	6	LEU	CA-C-N	6.46	131.67	120.68
1	23	6	LEU	C-N-CA	6.46	131.67	120.68
1	l4	12	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	lk	131	LYS	CA-C-N	6.46	128.94	120.28
1	lk	131	LYS	C-N-CA	6.46	128.94	120.28
1	2J	53	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	2T	159	GLU	CA-C-O	-6.46	113.93	119.36
1	2W	87	HIS	CA-C-N	6.46	131.03	122.30
1	2W	87	HIS	C-N-CA	6.46	131.03	122.30
1	2W	180	GLU	CA-C-O	6.46	127.27	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4i	15	ILE	O-C-N	-6.46	114.49	122.57
1	4z	214	MET	N-CA-C	6.46	118.33	111.28
1	54	102	SER	CA-C-N	6.46	129.47	120.29
1	54	102	SER	C-N-CA	6.46	129.47	120.29
1	5i	73	ILE	N-CA-C	6.46	117.21	110.62
1	5o	14	ALA	CA-C-O	-6.46	114.04	121.15
1	5N	138	LEU	N-CA-C	6.46	119.14	111.71
1	6o	37	ILE	CA-C-N	6.46	125.89	118.85
1	6o	37	ILE	C-N-CA	6.46	125.89	118.85
1	7j	169	TYR	N-CA-C	6.46	118.41	111.36
1	10	52	LEU	CA-C-N	6.46	128.84	120.44
1	10	52	LEU	C-N-CA	6.46	128.84	120.44
1	ad	132	ARG	O-C-N	-6.46	115.41	122.07
1	bo	80	TRP	CZ3-CH2-CZ2	6.46	129.90	121.50
1	cs	119	THR	CA-C-O	6.46	127.22	119.59
1	dk	32	PHE	CA-CB-CG	-6.46	107.34	113.80
1	dO	100	ARG	CA-C-N	6.46	127.11	120.00
1	dO	100	ARG	C-N-CA	6.46	127.11	120.00
1	e2	10	MET	N-CA-C	6.46	124.57	110.80
1	1r	5	ASN	CA-C-N	6.46	130.01	120.90
1	1r	5	ASN	C-N-CA	6.46	130.01	120.90
1	ew	74	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	fo	73	ILE	N-CA-CB	6.46	118.55	110.47
1	A	190	LEU	CA-C-O	-6.46	113.57	120.42
1	g9	53	ASN	CA-CB-CG	-6.46	106.14	112.60
1	gn	121	ASN	CA-C-O	-6.46	114.78	120.60
1	1E	12	HIS	CE1-NE2-CD2	-6.46	102.54	109.00
1	gW	22	ALA	CA-C-N	6.46	128.84	120.44
1	gW	22	ALA	C-N-CA	6.46	128.84	120.44
1	hf	161	PHE	CB-CA-C	6.46	121.67	110.68
1	hw	155	GLN	N-CA-C	6.46	119.09	109.59
1	hU	195	ASN	CA-CB-CG	-6.46	106.14	112.60
1	i1	43	LEU	CA-C-O	6.46	127.40	120.55
1	i6	2	ILE	CA-CB-CG1	6.46	121.38	110.40
1	i7	107	THR	O-C-N	-6.46	114.78	122.15
1	in	52	LEU	N-CA-C	-6.46	104.32	111.36
1	iz	91	ILE	N-CA-C	6.46	117.37	108.84
1	iC	179	GLN	N-CA-C	6.46	119.32	111.82
1	iC	229	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	1U	149	SER	O-C-N	-6.46	115.71	123.27
1	jz	165	VAL	N-CA-C	6.46	117.25	110.72
1	kr	62	HIS	ND1-CE1-NE2	6.46	114.86	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kw	172	LEU	CA-C-O	6.46	127.40	119.97
1	kH	117	TRP	CA-C-N	6.46	130.13	120.31
1	kH	117	TRP	C-N-CA	6.46	130.13	120.31
1	kO	18	ARG	N-CA-C	6.46	118.32	111.28
1	kW	110	THR	O-C-N	-6.46	115.48	122.85
1	ld	217	ALA	N-CA-C	6.46	119.61	110.50
1	lg	195	ASN	N-CA-CB	6.46	118.76	110.04
1	27	127	GLY	N-CA-C	-6.46	105.00	112.50
1	27	190	LEU	O-C-N	-6.46	115.42	122.07
1	lA	166	ASP	CA-CB-CG	6.46	119.06	112.60
1	lJ	64	ALA	CA-C-N	6.46	129.59	120.28
1	lJ	64	ALA	C-N-CA	6.46	129.59	120.28
1	lL	179	GLN	O-C-N	-6.46	115.27	122.12
1	lP	112	GLN	CG-CD-NE2	6.46	126.09	116.40
1	2q	64	ALA	N-CA-C	6.46	118.32	111.28
1	2v	165	VAL	O-C-N	-6.46	115.56	121.89
1	2B	6	LEU	CB-CA-C	-6.46	102.71	111.89
1	2J	117	TRP	CA-C-O	6.46	127.27	120.42
1	3d	41	SER	CA-C-N	6.46	128.94	120.28
1	3d	41	SER	C-N-CA	6.46	128.94	120.28
1	3C	84	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	45	82	ARG	N-CA-C	6.46	118.32	111.28
1	49	132	ARG	NH1-CZ-NH2	-6.46	110.90	119.30
1	4t	144	MET	N-CA-CB	6.46	119.72	110.16
1	5c	104	ILE	O-C-N	-6.46	115.60	121.87
1	5j	129	ILE	CA-C-O	6.46	128.02	121.17
1	5F	12	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	5P	36	VAL	O-C-N	-6.46	115.60	121.87
1	6a	50	GLN	CA-C-N	6.46	128.94	120.28
1	6a	50	GLN	C-N-CA	6.46	128.94	120.28
1	6j	154	ARG	NE-CZ-NH2	-6.46	113.39	119.20
1	7H	84	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	7R	154	ARG	CA-C-O	-6.46	113.78	120.89
1	7S	51	ASP	N-CA-C	6.46	118.32	111.28
1	7U	193	ASN	N-CA-C	6.46	121.17	113.16
1	84	138	LEU	O-C-N	-6.46	114.78	122.15
1	8H	51	ASP	CA-C-N	6.46	128.84	120.44
1	8H	51	ASP	C-N-CA	6.46	128.84	120.44
1	8R	18	ARG	CA-C-O	-6.46	113.70	120.55
1	91	12	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	93	140	LYS	N-CA-C	6.46	118.32	111.28
1	9x	131	LYS	N-CA-C	6.46	119.15	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	16	SER	CA-C-N	6.46	126.69	119.32
1	ag	16	SER	C-N-CA	6.46	126.69	119.32
1	ah	114	GLN	O-C-N	6.46	128.72	122.07
1	as	181	VAL	CA-C-N	6.46	128.84	120.44
1	as	181	VAL	C-N-CA	6.46	128.84	120.44
1	aw	188	THR	CA-C-N	6.46	129.23	120.38
1	aw	188	THR	C-N-CA	6.46	129.23	120.38
1	ax	170	LYS	CA-C-N	6.46	128.84	120.44
1	ax	170	LYS	C-N-CA	6.46	128.84	120.44
1	bs	72	THR	O-C-N	-6.46	115.37	122.09
1	bz	71	GLU	CA-C-O	-6.46	112.54	119.97
1	bT	84	HIS	CA-C-N	6.46	127.92	119.84
1	bT	84	HIS	C-N-CA	6.46	127.92	119.84
1	bY	118	MET	N-CA-CB	-6.46	100.62	110.12
1	cr	226	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	cy	13	GLN	N-CA-C	6.46	120.03	109.76
1	cW	182	LYS	N-CA-C	6.46	117.98	111.07
1	dk	114	GLN	N-CA-C	6.46	118.32	111.28
1	dw	167	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	ee	212	GLU	N-CA-C	6.46	119.15	111.33
1	er	172	LEU	O-C-N	-6.46	114.56	122.25
1	eE	209	ALA	N-CA-C	6.46	118.89	110.43
1	eU	12	HIS	O-C-N	-6.46	115.70	123.13
1	f5	82	ARG	CA-C-N	6.46	128.84	120.44
1	f5	82	ARG	C-N-CA	6.46	128.84	120.44
1	1v	228	ALA	CA-C-O	6.46	128.30	121.19
1	fF	84	HIS	CA-C-N	6.46	126.83	119.92
1	fF	84	HIS	C-N-CA	6.46	126.83	119.92
1	fK	136	LEU	CA-C-N	6.46	127.11	119.94
1	fK	136	LEU	C-N-CA	6.46	127.11	119.94
1	fP	168	PHE	N-CA-C	6.46	118.86	111.11
1	g3	80	TRP	CA-C-N	6.46	129.47	120.29
1	g3	80	TRP	C-N-CA	6.46	129.47	120.29
1	g7	202	LEU	N-CA-C	6.46	117.98	111.07
1	j	107	THR	O-C-N	-6.46	115.42	122.07
1	o	161	PHE	O-C-N	-6.46	114.66	122.22
1	C	200	THR	CA-C-O	-6.46	113.70	120.55
1	K	212	GLU	N-CA-CB	6.46	119.64	109.82
1	7	134	ILE	O-C-N	-6.46	115.18	121.83
1	gs	93	PRO	N-CA-CB	6.46	109.00	103.19
1	gw	73	ILE	O-C-N	-6.46	115.58	121.91
1	gC	30	LYS	N-CA-CB	-6.46	100.72	110.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gY	149	SER	CA-C-N	6.46	131.75	121.09
1	gY	149	SER	C-N-CA	6.46	131.75	121.09
1	hI	161	PHE	N-CA-C	6.46	119.15	111.33
1	iu	131	LYS	N-CA-C	-6.46	104.24	111.28
1	kl	80	TRP	CA-C-O	6.46	127.40	120.55
1	kv	48	THR	CA-CB-CG2	6.46	121.48	110.50
1	kJ	115	ILE	N-CA-CB	6.46	119.33	110.54
1	l2	29	GLU	N-CA-C	6.46	119.64	111.69
1	l7	16	SER	O-C-N	-6.46	114.65	121.30
1	lr	84	HIS	CA-CB-CG	-6.46	107.34	113.80
1	2G	33	SER	N-CA-C	-6.46	100.76	108.25
1	2Y	175	GLU	CB-CA-C	6.46	121.18	109.62
1	3q	63	GLN	CA-C-N	6.46	129.26	120.54
1	3q	63	GLN	C-N-CA	6.46	129.26	120.54
1	3B	125	PRO	CA-C-N	6.46	128.93	120.60
1	3B	125	PRO	C-N-CA	6.46	128.93	120.60
1	4a	137	GLY	CA-C-N	6.46	128.94	120.28
1	4a	137	GLY	C-N-CA	6.46	128.94	120.28
1	4w	147	PRO	N-CA-C	6.46	125.78	112.47
1	4K	156	GLY	CA-C-N	6.46	126.22	119.05
1	4K	156	GLY	C-N-CA	6.46	126.22	119.05
1	4O	122	PRO	N-CD-CG	-6.46	96.05	103.80
1	51	196	PRO	CA-C-N	6.46	128.84	120.44
1	51	196	PRO	C-N-CA	6.46	128.84	120.44
1	5W	117	TRP	N-CA-C	6.46	117.98	111.07
1	6B	32	PHE	CA-CB-CG	-6.46	107.34	113.80
1	6U	152	ASP	CA-C-N	6.46	129.16	120.50
1	6U	152	ASP	C-N-CA	6.46	129.16	120.50
1	7e	184	TRP	CB-CG-CD2	-6.46	117.76	126.80
1	7Q	167	ARG	O-C-N	6.46	128.97	122.12
1	7V	84	HIS	CA-CB-CG	6.46	120.26	113.80
1	8o	58	THR	N-CA-CB	6.46	120.29	110.28
1	8o	199	LYS	CA-C-N	6.46	128.94	120.28
1	8o	199	LYS	C-N-CA	6.46	128.94	120.28
1	8y	120	HIS	CE1-NE2-CD2	-6.46	102.54	109.00
1	8E	221	VAL	N-CA-C	6.46	118.00	109.21
1	9j	114	GLN	CA-C-N	6.46	129.59	120.42
1	9j	114	GLN	C-N-CA	6.46	129.59	120.42
1	9m	204	ALA	N-CA-C	6.46	118.32	111.28
1	9y	154	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	ag	165	VAL	O-C-N	6.46	128.14	121.87
1	aj	106	GLY	CA-C-N	6.46	129.23	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aj	106	GLY	C-N-CA	6.46	129.23	120.44
1	aO	183	ASN	CA-C-N	6.46	128.94	120.28
1	aO	183	ASN	C-N-CA	6.46	128.94	120.28
1	br	140	LYS	N-CA-C	6.46	118.40	111.36
1	bs	199	LYS	N-CA-C	6.46	118.32	111.28
1	bt	79	GLU	CB-CA-C	-6.46	100.74	110.88
1	bv	22	ALA	CA-C-N	6.46	128.84	120.44
1	bv	22	ALA	C-N-CA	6.46	128.84	120.44
1	bF	182	LYS	O-C-N	-6.46	115.27	122.12
1	c9	163	ASP	CA-C-N	6.46	129.26	120.54
1	c9	163	ASP	C-N-CA	6.46	129.26	120.54
1	cK	126	VAL	CA-C-N	6.46	134.07	121.41
1	cK	126	VAL	C-N-CA	6.46	134.07	121.41
1	df	188	THR	CA-C-N	6.46	128.94	120.28
1	df	188	THR	C-N-CA	6.46	128.94	120.28
1	dD	84	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	dD	143	ARG	N-CA-C	6.46	118.40	111.36
1	dE	117	TRP	N-CA-C	6.46	118.40	111.36
1	dG	87	HIS	CE1-NE2-CD2	-6.46	102.54	109.00
1	eR	184	TRP	N-CA-CB	-6.46	100.62	110.12
1	eX	13	GLN	CA-C-O	6.46	127.43	120.32
1	fZ	62	HIS	CA-CB-CG	-6.46	107.34	113.80
1	n	154	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	6	138	LEU	N-CA-C	6.46	118.32	111.28
1	gb	53	ASN	N-CA-C	6.46	118.86	111.11
1	gc	140	LYS	CA-C-N	6.46	129.31	120.46
1	gc	140	LYS	C-N-CA	6.46	129.31	120.46
1	gp	159	GLU	O-C-N	-6.46	116.08	121.38
1	gA	115	ILE	CA-C-N	6.46	127.15	119.98
1	gA	115	ILE	C-N-CA	6.46	127.15	119.98
1	hg	93	PRO	CA-C-N	6.46	131.98	122.10
1	hg	93	PRO	C-N-CA	6.46	131.98	122.10
1	hr	228	ALA	CB-CA-C	6.46	120.78	110.19
1	1L	225	GLY	CA-C-N	6.46	133.88	121.54
1	1L	225	GLY	C-N-CA	6.46	133.88	121.54
1	1M	153	ILE	N-CA-C	-6.46	99.83	108.35
1	i2	211	LEU	CA-C-N	6.46	128.94	120.28
1	i2	211	LEU	C-N-CA	6.46	128.94	120.28
1	i4	219	GLN	CA-C-N	6.46	127.11	120.00
1	i4	219	GLN	C-N-CA	6.46	127.11	120.00
1	i8	33	SER	CA-C-N	6.46	127.01	120.04
1	i8	33	SER	C-N-CA	6.46	127.01	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	230	VAL	CA-C-O	6.46	128.36	120.74
1	io	82	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	iy	144	MET	N-CA-C	6.46	118.86	111.11
1	iN	190	LEU	CA-C-O	6.46	127.81	120.90
1	iS	22	ALA	O-C-N	-6.46	114.79	122.15
1	j4	61	GLY	CA-C-N	6.46	131.31	122.07
1	j4	61	GLY	C-N-CA	6.46	131.31	122.07
1	ji	130	TYR	CB-CA-C	6.46	121.02	110.88
1	1X	70	LYS	N-CA-C	6.46	118.32	111.28
1	jL	92	GLU	CA-C-N	6.46	126.59	119.87
1	jL	92	GLU	C-N-CA	6.46	126.59	119.87
1	kk	23	TRP	N-CA-CB	-6.46	100.64	110.01
1	km	50	GLN	O-C-N	-6.46	115.27	122.12
1	ku	39	MET	O-C-N	-6.46	115.28	122.12
1	kM	153	ILE	CB-CA-C	-6.46	102.27	111.31
1	l1	84	HIS	CA-CB-CG	-6.46	107.34	113.80
1	l5	128	GLU	CA-C-N	6.46	128.70	120.56
1	l5	128	GLU	C-N-CA	6.46	128.70	120.56
1	l6	166	ASP	CA-C-N	6.46	128.94	120.28
1	l6	166	ASP	C-N-CA	6.46	128.94	120.28
1	lf	159	GLU	N-CA-C	6.46	117.84	109.64
1	lg	173	ARG	CA-C-O	6.46	127.40	120.55
1	lk	53	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	2r	14	ALA	N-CA-C	6.46	119.13	110.35
1	2v	126	VAL	CA-C-N	6.46	127.10	120.00
1	2v	126	VAL	C-N-CA	6.46	127.10	120.00
1	2B	18	ARG	N-CA-C	6.46	117.98	111.07
1	2O	126	VAL	N-CA-C	6.46	117.21	110.62
1	2P	155	GLN	N-CA-C	6.46	118.58	108.96
1	2R	134	ILE	N-CA-C	6.46	117.21	110.62
1	3F	117	TRP	N-CA-C	6.46	118.32	111.28
1	3N	143	ARG	N-CA-C	6.46	118.32	111.28
1	40	148	THR	CA-C-N	6.46	131.65	122.09
1	40	148	THR	C-N-CA	6.46	131.65	122.09
1	4r	62	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	4J	86	VAL	CA-C-O	6.46	127.33	120.48
1	4R	69	LEU	CA-C-N	6.46	129.22	120.44
1	4R	69	LEU	C-N-CA	6.46	129.22	120.44
1	4Z	121	ASN	CA-C-O	-6.46	114.36	119.66
1	55	179	GLN	O-C-N	6.46	128.97	122.12
1	55	216	THR	OG1-CB-CG2	-6.46	96.38	109.30
1	5F	39	MET	N-CA-C	6.46	118.32	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5J	139	ASN	CA-CB-CG	6.46	119.06	112.60
1	5U	171	THR	CA-C-N	6.46	128.84	120.44
1	5U	171	THR	C-N-CA	6.46	128.84	120.44
1	6a	156	GLY	N-CA-C	6.46	119.75	112.00
1	6e	76	GLU	O-C-N	-6.46	113.83	122.23
1	6k	12	HIS	CA-CB-CG	6.46	120.26	113.80
1	6o	108	THR	CA-CB-OG1	6.46	119.29	109.60
1	6G	47	ALA	O-C-N	-6.46	115.48	123.04
1	6L	63	GLN	CA-C-O	6.46	127.40	119.97
1	6P	146	SER	N-CA-C	6.46	118.78	109.48
1	7g	42	ALA	N-CA-C	6.46	118.32	111.28
1	7k	108	THR	CA-CB-OG1	6.46	119.29	109.60
1	7z	120	HIS	O-C-N	-6.46	115.19	122.75
1	81	229	ARG	N-CA-C	6.46	119.84	110.28
1	83	78	ALA	N-CA-C	6.46	117.98	111.07
1	84	172	LEU	N-CA-CB	6.46	119.61	110.12
1	8b	38	PRO	CA-C-N	6.46	128.84	120.44
1	8b	38	PRO	C-N-CA	6.46	128.84	120.44
1	8p	179	GLN	N-CA-C	6.46	119.14	111.33
1	8N	79	GLU	CA-C-N	6.46	128.93	120.28
1	8N	79	GLU	C-N-CA	6.46	128.93	120.28
1	8V	93	PRO	N-CA-C	-6.46	106.28	114.35
1	94	150	ILE	CA-C-N	6.46	130.93	120.60
1	94	150	ILE	C-N-CA	6.46	130.93	120.60
1	9m	101	GLY	N-CA-C	6.46	121.70	113.24
1	9r	143	ARG	N-CA-C	6.46	118.32	111.28
1	9x	216	THR	CA-C-O	6.46	127.47	119.78
1	9C	83	LEU	N-CA-C	6.46	118.40	111.36
1	9F	143	ARG	N-CA-C	6.46	118.40	111.36
1	9O	161	PHE	CA-CB-CG	-6.46	107.34	113.80
1	a7	153	ILE	N-CA-CB	-6.46	104.55	111.46
1	at	66	MET	CG-SD-CE	-6.46	86.69	100.90
1	az	82	ARG	NH1-CZ-NH2	-6.46	110.90	119.30
1	aG	58	THR	CA-C-N	6.46	129.40	120.49
1	aG	58	THR	C-N-CA	6.46	129.40	120.49
1	aG	125	PRO	CA-C-N	6.46	129.31	120.46
1	aG	125	PRO	C-N-CA	6.46	129.31	120.46
1	aV	145	TYR	N-CA-C	6.46	121.17	113.16
1	b2	139	ASN	CA-CB-CG	-6.46	106.14	112.60
1	bb	74	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	bd	165	VAL	CA-C-N	6.46	129.17	120.65
1	bd	165	VAL	C-N-CA	6.46	129.17	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bm	157	PRO	N-CA-CB	6.46	110.03	103.25
1	bs	62	HIS	N-CA-C	6.46	120.32	111.54
1	by	140	LYS	N-CA-C	6.46	118.86	111.11
1	19	101	GLY	O-C-N	-6.46	115.39	122.24
1	bE	190	LEU	O-C-N	-6.46	115.42	122.07
1	c5	141	ILE	CA-C-N	6.46	129.31	120.46
1	c5	141	ILE	C-N-CA	6.46	129.31	120.46
1	c7	227	LYS	O-C-N	-6.46	115.05	122.09
1	ca	81	ASP	N-CA-C	6.46	119.14	111.71
1	ce	55	MET	O-C-N	-6.46	115.27	122.12
1	cx	171	THR	CA-C-O	6.46	127.39	120.55
1	d7	84	HIS	CA-CB-CG	-6.46	107.34	113.80
1	do	203	LYS	N-CA-CB	6.46	119.56	109.94
1	dO	114	GLN	O-C-N	-6.46	115.42	122.07
1	dO	135	ILE	N-CA-C	6.46	117.21	110.62
1	1n	58	THR	CA-C-O	6.46	127.60	120.82
1	e5	85	PRO	CA-C-N	6.46	129.22	120.63
1	e5	85	PRO	C-N-CA	6.46	129.22	120.63
1	eb	202	LEU	N-CA-C	6.46	118.32	111.28
1	eh	150	ILE	N-CA-C	6.46	117.98	110.62
1	ew	66	MET	N-CA-C	6.46	118.40	111.36
1	eL	13	GLN	CG-CD-NE2	6.46	126.09	116.40
1	eO	155	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	1u	74	ASN	OD1-CG-ND2	6.46	129.06	122.60
1	1v	55	MET	N-CA-C	6.46	118.32	111.28
1	fb	195	ASN	O-C-N	-6.46	114.20	121.43
1	fc	226	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	fh	159	GLU	CA-C-N	6.46	127.42	120.83
1	fh	159	GLU	C-N-CA	6.46	127.42	120.83
1	fk	103	ASP	N-CA-C	6.46	119.14	111.71
1	fn	97	ARG	O-C-N	-6.46	114.92	122.87
1	fI	22	ALA	CA-C-N	6.46	128.93	120.28
1	fI	22	ALA	C-N-CA	6.46	128.93	120.28
1	fU	77	ALA	N-CA-C	6.46	118.32	111.28
1	g5	201	ILE	CA-CB-CG2	6.46	121.48	110.50
1	r	6	LEU	CA-C-N	6.46	129.99	120.95
1	r	6	LEU	C-N-CA	6.46	129.99	120.95
1	A	79	GLU	CA-C-N	6.46	129.17	120.65
1	A	79	GLU	C-N-CA	6.46	129.17	120.65
1	I	54	THR	N-CA-C	6.46	118.32	111.28
1	L	36	VAL	CA-C-N	6.46	125.50	120.33
1	L	36	VAL	C-N-CA	6.46	125.50	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	53	ASN	OD1-CG-ND2	-6.46	116.14	122.60
1	T	36	VAL	CA-C-N	6.46	124.31	120.24
1	T	36	VAL	C-N-CA	6.46	124.31	120.24
1	7	124	ILE	CA-C-O	6.46	122.74	119.12
1	gm	18	ARG	CA-C-N	6.46	128.83	120.44
1	gm	18	ARG	C-N-CA	6.46	128.83	120.44
1	gE	104	ILE	CA-C-O	-6.46	114.24	120.95
1	h5	141	ILE	CA-C-N	6.46	129.59	120.42
1	h5	141	ILE	C-N-CA	6.46	129.59	120.42
1	he	69	LEU	CA-C-N	6.46	128.93	120.28
1	he	69	LEU	C-N-CA	6.46	128.93	120.28
1	hg	129	ILE	O-C-N	-6.46	115.58	121.91
1	hs	173	ARG	NH1-CZ-NH2	-6.46	110.91	119.30
1	hD	144	MET	CA-C-O	-6.46	113.71	120.55
1	hQ	84	HIS	O-C-N	-6.46	115.17	121.17
1	hV	174	ALA	CA-C-N	6.46	130.50	120.75
1	hV	174	ALA	C-N-CA	6.46	130.50	120.75
1	i4	53	ASN	CA-C-N	6.46	129.22	120.44
1	i4	53	ASN	C-N-CA	6.46	129.22	120.44
1	1Q	38	PRO	CA-C-N	6.46	128.93	120.28
1	1Q	38	PRO	C-N-CA	6.46	128.93	120.28
1	iJ	202	LEU	O-C-N	-6.46	114.79	122.15
1	iL	214	MET	CG-SD-CE	-6.46	86.70	100.90
1	j8	168	PHE	CA-C-N	6.46	130.12	120.31
1	j8	168	PHE	C-N-CA	6.46	130.12	120.31
1	j9	185	MET	CG-SD-CE	-6.46	86.70	100.90
1	jh	179	GLN	O-C-N	-6.46	115.28	122.12
1	jt	80	TRP	N-CA-C	6.46	118.40	111.36
1	jC	180	GLU	CA-C-N	6.46	128.70	120.56
1	jC	180	GLU	C-N-CA	6.46	128.70	120.56
1	jL	179	GLN	CA-C-N	6.46	128.93	120.28
1	jL	179	GLN	C-N-CA	6.46	128.93	120.28
1	jO	195	ASN	CB-CA-C	6.46	121.45	109.51
1	jR	12	HIS	CB-CG-ND1	6.46	132.39	122.70
1	jV	131	LYS	N-CA-C	-6.46	104.24	111.28
1	kd	56	LEU	N-CA-C	6.46	118.32	111.28
1	ks	92	GLU	CB-CA-C	6.46	118.75	109.26
1	24	100	ARG	O-C-N	-6.46	115.35	122.84
1	kR	26	VAL	CA-C-N	6.46	129.59	120.42
1	kR	26	VAL	C-N-CA	6.46	129.59	120.42
1	l7	59	VAL	CB-CA-C	-6.46	103.53	111.08
1	ld	153	ILE	N-CA-C	6.46	118.49	111.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	195	ASN	CB-CA-C	6.46	119.38	109.50
1	lN	63	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	2E	46	GLY	N-CA-C	6.46	123.85	114.10
1	3a	165	VAL	CA-C-O	-6.46	114.33	121.05
1	3s	56	LEU	CA-C-N	6.46	128.93	120.28
1	3s	56	LEU	C-N-CA	6.46	128.93	120.28
1	3w	84	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	3z	35	GLU	CA-C-O	6.46	127.09	119.28
1	3A	195	ASN	CA-C-N	6.46	127.91	119.84
1	3A	195	ASN	C-N-CA	6.46	127.91	119.84
1	3E	28	GLU	O-C-N	-6.46	115.42	122.07
1	41	163	ASP	CA-C-N	6.46	128.83	120.44
1	41	163	ASP	C-N-CA	6.46	128.83	120.44
1	4e	14	ALA	N-CA-C	6.46	118.64	110.24
1	4y	81	ASP	N-CA-C	6.46	119.14	111.33
1	5r	62	HIS	ND1-CE1-NE2	6.46	114.86	108.40
1	5A	214	MET	CA-C-N	6.46	129.26	120.54
1	5A	214	MET	C-N-CA	6.46	129.26	120.54
1	5J	209	ALA	N-CA-CB	6.46	119.96	109.69
1	5L	20	LEU	N-CA-C	6.46	117.98	111.07
1	6p	229	ARG	CA-C-N	6.46	133.59	121.97
1	6p	229	ARG	C-N-CA	6.46	133.59	121.97
1	6D	152	ASP	N-CA-C	-6.46	105.03	113.17
1	6E	108	THR	CA-CB-CG2	-6.46	99.53	110.50
1	6K	216	THR	N-CA-CB	6.46	119.72	110.16
1	6X	123	PRO	N-CA-C	6.46	121.35	111.15
1	7B	130	TYR	N-CA-C	6.46	117.98	111.07
1	7P	9	GLN	N-CA-C	6.46	119.24	108.20
1	89	223	GLY	CA-C-N	6.46	127.91	119.84
1	89	223	GLY	C-N-CA	6.46	127.91	119.84
1	8t	113	GLU	O-C-N	-6.46	115.28	122.12
1	8x	208	ALA	N-CA-C	-6.46	105.56	113.50
1	8y	9	GLN	N-CA-C	6.46	120.50	112.24
1	8M	179	GLN	CA-C-O	6.46	127.81	120.90
1	91	132	ARG	N-CA-C	6.46	118.86	111.11
1	9b	48	THR	N-CA-CB	6.46	118.69	109.78
1	9u	110	THR	CA-C-N	6.46	128.93	120.28
1	9u	110	THR	C-N-CA	6.46	128.93	120.28
1	9D	146	SER	N-CA-C	6.46	118.78	109.48
1	9N	97	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	ab	100	ARG	CA-C-N	6.46	127.29	119.99
1	ab	100	ARG	C-N-CA	6.46	127.29	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aC	187	GLU	O-C-N	-6.46	115.42	122.07
1	15	120	HIS	CG-CD2-NE2	6.46	113.66	107.20
1	bk	103	ASP	CA-C-N	6.46	129.59	120.42
1	bk	103	ASP	C-N-CA	6.46	129.59	120.42
1	18	62	HIS	CA-CB-CG	-6.46	107.34	113.80
1	1a	135	ILE	CA-C-N	6.46	130.93	120.60
1	1a	135	ILE	C-N-CA	6.46	130.93	120.60
1	bX	45	GLU	CA-C-N	6.46	132.00	120.77
1	bX	45	GLU	C-N-CA	6.46	132.00	120.77
1	c7	143	ARG	CA-C-N	6.46	128.83	120.44
1	c7	143	ARG	C-N-CA	6.46	128.83	120.44
1	cp	200	THR	N-CA-C	6.46	118.32	111.28
1	cJ	9	GLN	CG-CD-NE2	6.46	126.08	116.40
1	cM	214	MET	N-CA-C	6.46	118.40	111.36
1	cN	143	ARG	N-CA-C	6.46	117.98	111.07
1	cY	201	ILE	O-C-N	-6.46	115.58	121.91
1	cZ	226	HIS	CA-CB-CG	6.46	120.26	113.80
1	da	18	ARG	NH1-CZ-NH2	-6.46	110.91	119.30
1	db	104	ILE	CA-C-O	6.46	128.01	121.17
1	dg	210	THR	O-C-N	-6.46	114.77	122.65
1	1k	31	ALA	CA-C-O	6.46	129.74	120.51
1	dr	95	GLN	CG-CD-NE2	6.46	126.09	116.40
1	dD	102	SER	N-CA-CB	6.46	120.16	110.22
1	eb	18	ARG	NE-CZ-NH1	6.46	127.96	121.50
1	eb	65	ALA	N-CA-C	6.46	118.32	111.28
1	1q	180	GLU	O-C-N	-6.46	115.28	122.12
1	eR	178	SER	CA-C-N	6.46	129.22	120.38
1	eR	178	SER	C-N-CA	6.46	129.22	120.38
1	eV	155	GLN	O-C-N	-6.46	115.39	123.01
1	fO	216	THR	CA-CB-OG1	6.46	119.28	109.60
1	fQ	73	ILE	N-CA-CB	6.46	118.10	110.55
1	fW	108	THR	O-C-N	-6.46	115.19	122.23
1	g2	74	ASN	CA-CB-CG	-6.46	106.14	112.60
1	y	58	THR	N-CA-CB	6.46	120.74	110.73
1	M	50	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	V	2	ILE	O-C-N	-6.46	116.40	123.18
1	gF	82	ARG	NH1-CZ-NH2	-6.46	110.91	119.30
1	hr	10	MET	N-CA-C	6.46	119.59	110.23
1	ia	62	HIS	ND1-CG-CD2	6.46	112.56	106.10
1	jA	78	ALA	O-C-N	-6.46	114.36	122.17
1	20	165	VAL	CA-C-N	6.46	128.93	120.28
1	20	165	VAL	C-N-CA	6.46	128.93	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kj	50	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	kn	82	ARG	CA-C-N	6.46	129.46	120.29
1	kn	82	ARG	C-N-CA	6.46	129.46	120.29
1	kR	214	MET	N-CA-C	6.46	117.98	111.07
1	26	12	HIS	CE1-NE2-CD2	-6.46	102.55	109.00
1	l9	111	LEU	CB-CA-C	6.46	123.27	110.42
1	lA	7	GLN	OE1-CD-NE2	-6.46	116.14	122.60
1	lJ	67	GLN	N-CA-C	6.46	117.98	111.07
1	2k	212	GLU	N-CA-C	6.46	117.98	111.07
1	4x	125	PRO	CA-C-N	6.46	129.30	120.46
1	4x	125	PRO	C-N-CA	6.46	129.30	120.46
1	59	139	ASN	CA-C-O	-6.46	114.04	120.82
1	5Z	73	ILE	N-CA-CB	6.46	120.26	110.58
1	6v	110	THR	CA-C-N	6.46	129.25	120.54
1	6v	110	THR	C-N-CA	6.46	129.25	120.54
1	83	202	LEU	CA-C-N	6.46	130.50	120.82
1	83	202	LEU	C-N-CA	6.46	130.50	120.82
1	8q	195	ASN	CA-C-N	6.46	127.91	119.84
1	8q	195	ASN	C-N-CA	6.46	127.91	119.84
1	95	100	ARG	O-C-N	-6.46	115.35	122.84
1	9d	184	TRP	CA-C-N	6.46	129.25	120.54
1	9d	184	TRP	C-N-CA	6.46	129.25	120.54
1	9U	92	GLU	N-CA-C	6.46	117.84	109.64
1	b9	159	GLU	CA-C-N	6.46	127.91	119.84
1	b9	159	GLU	C-N-CA	6.46	127.91	119.84
1	19	115	ILE	CA-C-O	6.46	127.66	120.95
1	19	165	VAL	CA-C-N	6.46	128.83	120.44
1	19	165	VAL	C-N-CA	6.46	128.83	120.44
1	bG	9	GLN	CA-C-N	6.46	133.87	121.54
1	bG	9	GLN	C-N-CA	6.46	133.87	121.54
1	bG	179	GLN	O-C-N	-6.46	115.28	122.12
1	c3	100	ARG	CA-C-N	6.46	127.15	119.98
1	c3	100	ARG	C-N-CA	6.46	127.15	119.98
1	1c	50	GLN	CA-C-N	6.46	128.83	120.44
1	1c	50	GLN	C-N-CA	6.46	128.83	120.44
1	cd	227	LYS	CA-C-O	6.46	128.23	120.81
1	ch	224	PRO	N-CA-CB	6.46	109.08	103.27
1	ci	169	TYR	N-CA-C	6.46	119.31	111.82
1	cl	44	SER	N-CA-C	6.46	120.86	112.92
1	cy	144	MET	N-CA-CB	6.46	119.82	110.20
1	1k	82	ARG	NE-CZ-NH1	6.46	127.95	121.50
1	dJ	70	LYS	N-CA-C	6.46	118.32	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fe	187	GLU	CA-C-N	6.46	128.93	120.28
1	fe	187	GLU	C-N-CA	6.46	128.93	120.28
1	1x	210	THR	CA-C-N	6.46	129.22	120.38
1	1x	210	THR	C-N-CA	6.46	129.22	120.38
1	fV	213	GLU	CB-CA-C	-6.46	100.75	110.88
1	g2	153	ILE	N-CA-C	6.46	117.76	109.30
1	A	159	GLU	N-CA-CB	-6.46	101.77	110.23
1	go	76	GLU	CA-C-N	6.45	133.87	121.54
1	go	76	GLU	C-N-CA	6.45	133.87	121.54
1	gt	191	VAL	N-CA-C	6.45	117.20	110.62
1	gu	199	LYS	N-CA-C	6.45	118.31	111.28
1	gG	224	PRO	CA-C-N	6.45	128.17	122.43
1	gG	224	PRO	C-N-CA	6.45	128.17	122.43
1	gL	190	LEU	N-CA-C	6.45	118.00	110.97
1	hv	131	LYS	N-CA-CB	-6.45	100.63	110.12
1	hW	152	ASP	N-CA-C	-6.45	105.56	113.50
1	hX	208	ALA	CA-C-N	6.45	129.99	120.95
1	hX	208	ALA	C-N-CA	6.45	129.99	120.95
1	i7	216	THR	CA-C-O	6.45	127.26	120.42
1	in	37	ILE	O-C-N	-6.45	115.49	120.07
1	iC	120	HIS	O-C-N	-6.45	115.43	122.79
1	iR	151	LEU	CA-C-O	6.45	127.40	120.24
1	j5	37	ILE	CA-C-O	-6.45	111.30	119.95
1	jH	229	ARG	NH1-CZ-NH2	-6.45	110.91	119.30
1	jS	121	ASN	CA-CB-CG	-6.45	106.15	112.60
1	kw	81	ASP	CA-C-N	6.45	129.45	120.29
1	kw	81	ASP	C-N-CA	6.45	129.45	120.29
1	2e	45	GLU	N-CA-C	6.45	119.98	110.30
1	2s	151	LEU	CA-C-O	6.45	126.90	119.35
1	2S	187	GLU	N-CA-C	6.45	120.41	112.54
1	3u	120	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	3K	188	THR	CA-CB-OG1	6.45	119.28	109.60
1	4q	48	THR	CA-CB-OG1	6.45	119.28	109.60
1	4z	182	LYS	CA-C-N	6.45	130.12	120.31
1	4z	182	LYS	C-N-CA	6.45	130.12	120.31
1	4K	12	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	4M	174	ALA	N-CA-C	6.45	118.31	111.28
1	5k	196	PRO	N-CA-C	6.45	123.17	113.81
1	5G	141	ILE	N-CA-C	6.45	116.61	110.42
1	5L	229	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	5T	77	ALA	N-CA-C	6.45	118.39	111.36
1	65	41	SER	N-CA-C	6.45	118.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	68	146	SER	CA-C-O	-6.45	114.29	119.71
1	6c	182	LYS	O-C-N	-6.45	115.28	122.12
1	6h	12	HIS	N-CA-CB	6.45	120.68	110.23
1	6n	160	PRO	CA-C-O	-6.45	114.33	121.23
1	6q	226	HIS	CA-CB-CG	6.45	120.25	113.80
1	6D	85	PRO	N-CA-C	6.45	121.35	111.15
1	76	169	TYR	O-C-N	-6.45	113.78	122.43
1	7h	226	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	7D	98	GLU	CA-C-N	6.45	127.42	120.13
1	7D	98	GLU	C-N-CA	6.45	127.42	120.13
1	8e	31	ALA	N-CA-C	6.45	121.20	112.88
1	8P	226	HIS	N-CA-C	6.45	119.84	110.42
1	8V	141	ILE	N-CA-C	6.45	117.14	110.36
1	9O	152	ASP	CA-C-N	6.45	129.76	120.98
1	9O	152	ASP	C-N-CA	6.45	129.76	120.98
1	Z	14	ALA	N-CA-C	6.45	119.59	110.23
1	ag	178	SER	CA-C-N	6.45	128.83	120.44
1	ag	178	SER	C-N-CA	6.45	128.83	120.44
1	au	84	HIS	CG-CD2-NE2	6.45	113.65	107.20
1	aw	82	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	aG	186	THR	N-CA-CB	6.45	120.24	110.30
1	aM	34	PRO	N-CA-CB	6.45	109.93	103.48
1	aO	104	ILE	O-C-N	6.45	128.13	121.87
1	b8	33	SER	O-C-N	-6.45	113.90	121.32
1	bh	176	GLN	CA-C-N	6.45	133.87	121.54
1	bh	176	GLN	C-N-CA	6.45	133.87	121.54
1	bx	16	SER	CA-C-N	6.45	126.38	119.28
1	bx	16	SER	C-N-CA	6.45	126.38	119.28
1	bB	104	ILE	CA-CB-CG2	6.45	121.47	110.50
1	bJ	63	GLN	N-CA-C	6.45	118.31	111.28
1	c9	23	TRP	N-CA-C	6.45	118.39	111.36
1	cl	136	LEU	CA-C-N	6.45	127.14	119.98
1	cl	136	LEU	C-N-CA	6.45	127.14	119.98
1	cN	168	PHE	N-CA-C	6.45	118.86	111.11
1	cU	5	ASN	O-C-N	-6.45	115.62	123.30
1	cZ	129	ILE	CA-C-N	6.45	128.93	120.28
1	cZ	129	ILE	C-N-CA	6.45	128.93	120.28
1	d1	228	ALA	N-CA-C	6.45	120.02	109.76
1	dc	98	GLU	N-CA-C	6.45	118.99	109.50
1	de	181	VAL	N-CA-CB	6.45	118.10	110.55
1	dp	118	MET	N-CA-C	6.45	119.31	111.82
1	em	154	ARG	NE-CZ-NH1	6.45	127.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ev	106	GLY	N-CA-C	6.45	124.53	115.43
1	f3	185	MET	CA-C-O	6.45	127.39	120.55
1	f3	224	PRO	N-CA-C	6.45	125.76	112.47
1	fl	181	VAL	CB-CA-C	-6.45	103.43	112.14
1	fs	210	THR	CA-CB-OG1	6.45	119.28	109.60
1	1x	49	PRO	N-CA-C	-6.45	104.94	113.65
1	1x	147	PRO	CA-C-N	6.45	130.31	120.82
1	1x	147	PRO	C-N-CA	6.45	130.31	120.82
1	fL	133	TRP	N-CA-C	-6.45	104.33	111.36
1	fM	68	MET	CG-SD-CE	-6.45	86.70	100.90
1	q	180	GLU	N-CA-C	6.45	118.86	111.11
1	B	225	GLY	CA-C-N	6.45	129.57	120.28
1	B	225	GLY	C-N-CA	6.45	129.57	120.28
1	I	139	ASN	CB-CA-C	6.45	121.14	110.81
1	O	40	PHE	N-CA-CB	6.45	119.37	110.01
1	R	229	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	S	143	ARG	O-C-N	6.45	129.06	122.09
1	V	49	PRO	CB-CA-C	6.45	122.21	111.56
1	ha	33	SER	O-C-N	-6.45	116.94	121.65
1	hj	46	GLY	N-CA-C	-6.45	106.53	114.92
1	ij	19	THR	O-C-N	-6.45	115.28	122.12
1	iL	128	GLU	O-C-N	-6.45	115.42	122.07
1	jK	141	ILE	CA-C-N	6.45	129.22	120.77
1	jK	141	ILE	C-N-CA	6.45	129.22	120.77
1	l2	179	GLN	CA-C-O	-6.45	113.58	120.42
1	lf	139	ASN	CA-C-N	6.45	129.45	120.29
1	lf	139	ASN	C-N-CA	6.45	129.45	120.29
1	lf	147	PRO	CB-CA-C	6.45	121.53	112.11
1	2k	126	VAL	CA-C-N	6.45	127.14	119.98
1	2k	126	VAL	C-N-CA	6.45	127.14	119.98
1	2q	10	MET	CA-C-N	6.45	131.96	123.06
1	2q	10	MET	C-N-CA	6.45	131.96	123.06
1	2v	164	TYR	CB-CA-C	6.45	121.01	110.88
1	2W	87	HIS	CA-CB-CG	6.45	120.25	113.80
1	3m	176	GLN	CA-C-N	6.45	130.49	120.75
1	3m	176	GLN	C-N-CA	6.45	130.49	120.75
1	3q	136	LEU	N-CA-C	-6.45	104.17	111.07
1	48	151	LEU	CA-C-N	6.45	128.93	120.28
1	48	151	LEU	C-N-CA	6.45	128.93	120.28
1	4b	92	GLU	N-CA-C	6.45	121.53	112.75
1	4p	16	SER	CA-C-O	-6.45	113.28	120.25
1	4K	37	ILE	N-CA-CB	6.45	114.56	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	223	GLY	O-C-N	6.45	128.22	121.77
1	6h	41	SER	N-CA-C	6.45	117.97	111.07
1	6x	43	LEU	O-C-N	-6.45	114.80	122.15
1	6y	101	GLY	CA-C-N	6.45	128.93	120.28
1	6y	101	GLY	C-N-CA	6.45	128.93	120.28
1	6S	159	GLU	CA-C-N	6.45	127.91	119.84
1	6S	159	GLU	C-N-CA	6.45	127.91	119.84
1	8X	56	LEU	CA-C-O	6.45	126.86	119.18
1	9n	87	HIS	CA-CB-CG	6.45	120.25	113.80
1	9t	16	SER	CA-C-O	6.45	125.81	119.75
1	10	26	VAL	N-CA-C	6.45	116.59	110.53
1	aM	130	TYR	CA-C-N	6.45	129.22	120.38
1	aM	130	TYR	C-N-CA	6.45	129.22	120.38
1	b4	84	HIS	CA-C-O	-6.45	113.56	119.62
1	bd	211	LEU	N-CA-CB	6.45	119.71	110.16
1	cm	84	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	cy	223	GLY	CA-C-N	6.45	126.47	119.89
1	cy	223	GLY	C-N-CA	6.45	126.47	119.89
1	cT	146	SER	CA-C-N	6.45	126.21	119.05
1	cT	146	SER	C-N-CA	6.45	126.21	119.05
1	d0	101	GLY	N-CA-C	6.45	120.47	112.73
1	f2	33	SER	N-CA-CB	6.45	117.88	111.10
1	fs	84	HIS	CA-C-N	6.45	126.41	119.76
1	fs	84	HIS	C-N-CA	6.45	126.41	119.76
1	fL	139	ASN	OD1-CG-ND2	-6.45	116.15	122.60
1	fW	62	HIS	CB-CG-ND1	-6.45	113.02	122.70
1	g2	203	LYS	N-CA-C	6.45	119.30	111.82
1	A	230	VAL	N-CA-C	-6.45	103.97	111.00
1	gt	17	PRO	N-CA-C	6.45	123.36	113.75
1	gy	205	LEU	N-CA-C	6.45	120.76	113.02
1	gC	158	LYS	CA-C-N	6.45	129.31	120.67
1	gC	158	LYS	C-N-CA	6.45	129.31	120.67
1	gG	12	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	1F	160	PRO	N-CA-C	6.45	121.47	111.21
1	gR	97	ARG	CA-C-N	6.45	129.31	120.67
1	gR	97	ARG	C-N-CA	6.45	129.31	120.67
1	hb	191	VAL	N-CA-C	-6.45	104.74	111.58
1	hb	192	GLN	CA-C-O	-6.45	114.00	120.90
1	hd	152	ASP	N-CA-CB	-6.45	101.19	110.80
1	hh	183	ASN	CA-C-N	6.45	129.45	120.29
1	hh	183	ASN	C-N-CA	6.45	129.45	120.29
1	ii	155	GLN	CG-CD-NE2	6.45	126.08	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	4	GLN	CA-C-N	6.45	131.90	123.00
1	il	4	GLN	C-N-CA	6.45	131.90	123.00
1	io	229	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	it	175	GLU	CB-CA-C	6.45	119.94	110.26
1	iA	37	ILE	CA-C-N	6.45	125.88	118.85
1	iA	37	ILE	C-N-CA	6.45	125.88	118.85
1	iY	155	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	jm	121	ASN	CA-C-O	-6.45	114.56	119.59
1	jr	114	GLN	N-CA-CB	6.45	119.36	110.01
1	jX	120	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	22	44	SER	CA-C-O	6.45	127.91	121.20
1	kF	10	MET	CG-SD-CE	-6.45	86.71	100.90
1	kH	152	ASP	CA-CB-CG	6.45	119.05	112.60
1	kS	116	GLY	CA-C-N	6.45	128.82	120.44
1	kS	116	GLY	C-N-CA	6.45	128.82	120.44
1	kT	69	LEU	CA-C-N	6.45	128.92	120.28
1	kT	69	LEU	C-N-CA	6.45	128.92	120.28
1	kX	155	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	l9	159	GLU	CA-C-N	6.45	126.47	119.89
1	l9	159	GLU	C-N-CA	6.45	126.47	119.89
1	2f	196	PRO	N-CA-C	6.45	124.23	113.78
1	2i	18	ARG	NH1-CZ-NH2	-6.45	110.91	119.30
1	2z	194	ALA	CA-C-N	6.45	129.36	120.39
1	2z	194	ALA	C-N-CA	6.45	129.36	120.39
1	36	23	TRP	N-CA-C	6.45	117.97	111.07
1	3b	32	PHE	O-C-N	-6.45	113.56	122.20
1	3f	82	ARG	NE-CZ-NH2	-6.45	113.39	119.20
1	3p	167	ARG	CA-C-N	6.45	129.45	120.29
1	3p	167	ARG	C-N-CA	6.45	129.45	120.29
1	3K	77	ALA	N-CA-C	6.45	118.85	111.11
1	3P	154	ARG	O-C-N	-6.45	115.03	123.16
1	42	84	HIS	CB-CG-CD2	-6.45	122.81	131.20
1	49	226	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	4p	210	THR	CA-C-N	6.45	129.21	120.44
1	4p	210	THR	C-N-CA	6.45	129.21	120.44
1	4C	163	ASP	CA-C-N	6.45	129.25	120.54
1	4C	163	ASP	C-N-CA	6.45	129.25	120.54
1	4N	72	THR	CA-C-N	6.45	128.69	120.56
1	4N	72	THR	C-N-CA	6.45	128.69	120.56
1	53	95	GLN	N-CA-C	6.45	119.12	110.35
1	54	156	GLY	CA-C-N	6.45	127.90	119.84
1	54	156	GLY	C-N-CA	6.45	127.90	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	187	GLU	CA-C-N	6.45	130.03	121.90
1	5e	187	GLU	C-N-CA	6.45	130.03	121.90
1	5o	73	ILE	O-C-N	-6.45	115.59	121.91
1	5T	144	MET	CA-C-N	6.45	132.62	122.49
1	5T	144	MET	C-N-CA	6.45	132.62	122.49
1	6d	189	LEU	N-CA-C	6.45	117.97	111.07
1	6n	167	ARG	NE-CZ-NH2	6.45	125.00	119.20
1	6U	3	VAL	O-C-N	-6.45	116.27	122.98
1	7r	132	ARG	CB-CG-CD	6.45	126.14	111.30
1	7x	12	HIS	CA-C-O	6.45	128.34	120.92
1	7A	189	LEU	CA-C-N	6.45	129.25	120.54
1	7A	189	LEU	C-N-CA	6.45	129.25	120.54
1	7Q	140	LYS	CA-C-N	6.45	128.69	120.56
1	7Q	140	LYS	C-N-CA	6.45	128.69	120.56
1	8o	75	GLU	N-CA-C	6.45	119.13	111.71
1	8B	52	LEU	CA-C-N	6.45	129.22	120.38
1	8B	52	LEU	C-N-CA	6.45	129.22	120.38
1	8P	219	GLN	OE1-CD-NE2	6.45	129.05	122.60
1	8Q	41	SER	N-CA-C	6.45	117.97	111.07
1	8X	40	PHE	CA-CB-CG	-6.45	107.35	113.80
1	98	57	ASN	N-CA-C	6.45	121.23	113.23
1	9g	173	ARG	N-CA-C	6.45	117.97	111.07
1	9l	164	TYR	O-C-N	6.45	128.96	122.12
1	9s	19	THR	CB-CA-C	-6.45	99.72	110.68
1	9w	129	ILE	CA-C-N	6.45	128.92	120.28
1	9w	129	ILE	C-N-CA	6.45	128.92	120.28
1	9P	15	ILE	N-CA-C	6.45	118.08	109.37
1	a2	51	ASP	CA-C-N	6.45	128.93	120.28
1	a2	51	ASP	C-N-CA	6.45	128.93	120.28
1	ah	173	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	ai	82	ARG	CA-C-O	6.45	127.26	120.42
1	ak	114	GLN	CA-C-O	6.45	127.34	120.70
1	al	55	MET	CA-C-N	6.45	128.92	120.28
1	al	55	MET	C-N-CA	6.45	128.92	120.28
1	al	162	ARG	O-C-N	-6.45	113.78	122.43
1	as	53	ASN	CA-CB-CG	-6.45	106.15	112.60
1	aE	139	ASN	CA-CB-CG	-6.45	106.15	112.60
1	aL	76	GLU	CA-C-O	-6.45	113.71	120.55
1	bD	13	GLN	O-C-N	-6.45	115.31	123.24
1	bR	88	ALA	O-C-N	-6.45	115.20	122.75
1	cc	190	LEU	CA-C-N	6.45	128.82	120.56
1	cc	190	LEU	C-N-CA	6.45	128.82	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ch	4	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	cv	121	ASN	OD1-CG-ND2	-6.45	116.15	122.60
1	cz	25	LYS	N-CA-C	6.45	118.31	111.28
1	cC	194	ALA	O-C-N	-6.45	114.88	122.81
1	e1	79	GLU	N-CA-CB	6.45	119.60	110.12
1	e5	179	GLN	N-CA-CB	6.45	119.74	110.06
1	ej	135	ILE	N-CA-CB	6.45	120.25	110.58
1	en	97	ARG	N-CA-C	-6.45	101.40	110.50
1	eM	179	GLN	CA-C-N	6.45	128.92	120.28
1	eM	179	GLN	C-N-CA	6.45	128.92	120.28
1	fa	83	LEU	CA-C-N	6.45	131.88	122.66
1	fa	83	LEU	C-N-CA	6.45	131.88	122.66
1	fo	195	ASN	CA-C-N	6.45	127.90	119.84
1	fo	195	ASN	C-N-CA	6.45	127.90	119.84
1	fH	213	GLU	CA-C-O	6.45	127.59	120.82
1	fN	92	GLU	O-C-N	-6.45	114.65	120.71
1	fQ	57	ASN	N-CA-C	6.45	120.61	112.87
1	fU	136	LEU	CB-CA-C	-6.45	100.08	110.79
1	o	215	MET	CA-C-N	6.45	129.40	120.63
1	o	215	MET	C-N-CA	6.45	129.40	120.63
1	E	106	GLY	CA-C-N	6.45	129.45	120.29
1	E	106	GLY	C-N-CA	6.45	129.45	120.29
1	E	135	ILE	N-CA-CB	6.45	118.83	110.57
1	P	79	GLU	CA-C-N	6.45	128.92	120.28
1	P	79	GLU	C-N-CA	6.45	128.92	120.28
1	Q	210	THR	N-CA-C	6.45	118.34	110.41
1	R	47	ALA	O-C-N	-6.45	115.87	123.22
1	gF	205	LEU	CA-C-N	6.45	131.99	121.87
1	gF	205	LEU	C-N-CA	6.45	131.99	121.87
1	gI	69	LEU	O-C-N	-6.45	115.28	122.12
1	gZ	185	MET	N-CA-CB	-6.45	100.66	110.01
1	hh	153	ILE	CA-C-O	6.45	128.84	120.78
1	hG	68	MET	N-CA-C	6.45	119.13	111.33
1	hN	11	VAL	O-C-N	-6.45	114.66	122.59
1	i9	226	HIS	CG-CD2-NE2	6.45	113.65	107.20
1	ih	198	CYS	O-C-N	-6.45	114.80	122.15
1	iY	110	THR	CA-C-N	6.45	128.82	120.44
1	iY	110	THR	C-N-CA	6.45	128.82	120.44
1	j5	85	PRO	O-C-N	-6.45	115.11	122.91
1	jo	96	MET	N-CA-CB	6.45	119.57	109.83
1	1W	192	GLN	CG-CD-NE2	6.45	126.07	116.40
1	jC	216	THR	N-CA-C	-6.45	105.34	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jQ	58	THR	O-C-N	-6.45	113.79	122.43
1	kt	50	GLN	N-CA-C	6.45	117.97	111.07
1	23	184	TRP	CA-C-O	6.45	127.39	120.55
1	l5	43	LEU	N-CA-C	6.45	118.85	111.11
1	lo	159	GLU	O-C-N	-6.45	115.18	121.18
1	2m	154	ARG	NH1-CZ-NH2	-6.45	110.92	119.30
1	2s	114	GLN	CA-C-N	6.45	129.29	120.46
1	2s	114	GLN	C-N-CA	6.45	129.29	120.46
1	2z	2	ILE	N-CA-C	-6.45	98.92	108.85
1	2L	73	ILE	CA-C-N	6.45	128.92	120.28
1	2L	73	ILE	C-N-CA	6.45	128.92	120.28
1	2R	174	ALA	N-CA-C	-6.45	103.49	112.45
1	2X	183	ASN	OD1-CG-ND2	-6.45	116.15	122.60
1	31	83	LEU	N-CA-C	6.45	119.30	111.82
1	33	3	VAL	O-C-N	-6.45	117.36	122.97
1	49	178	SER	CA-C-O	6.45	129.35	121.87
1	4d	57	ASN	CA-CB-CG	-6.45	106.15	112.60
1	4h	3	VAL	CA-C-O	-6.45	114.44	121.28
1	4h	5	ASN	CA-C-N	6.45	131.75	122.40
1	4h	5	ASN	C-N-CA	6.45	131.75	122.40
1	4j	222	GLY	CA-C-N	6.45	131.99	121.87
1	4j	222	GLY	C-N-CA	6.45	131.99	121.87
1	4u	97	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	4G	39	MET	CA-C-O	-6.45	114.06	120.70
1	4L	158	LYS	N-CA-C	-6.45	105.04	113.17
1	4V	168	PHE	CA-CB-CG	6.45	120.25	113.80
1	4Z	117	TRP	N-CA-C	6.45	120.25	112.38
1	5a	128	GLU	CB-CG-CD	6.45	123.56	112.60
1	5c	16	SER	CA-C-O	-6.45	113.99	120.63
1	5D	142	VAL	N-CA-C	6.45	116.61	110.42
1	5Z	191	VAL	O-C-N	-6.45	115.59	121.91
1	64	10	MET	CA-C-O	6.45	127.17	120.40
1	6T	101	GLY	CA-C-O	6.45	127.97	121.00
1	7i	167	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	7o	201	ILE	CA-C-N	6.45	128.82	120.44
1	7o	201	ILE	C-N-CA	6.45	128.82	120.44
1	8c	22	ALA	O-C-N	-6.45	115.43	122.07
1	8c	41	SER	N-CA-CB	6.45	119.36	110.01
1	8m	161	PHE	O-C-N	-6.45	114.98	121.88
1	8L	96	MET	N-CA-C	6.45	119.12	110.35
1	91	210	THR	CA-C-O	6.45	128.23	120.81
1	9g	180	GLU	CA-C-N	6.45	128.81	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9g	180	GLU	C-N-CA	6.45	128.81	120.56
1	9n	191	VAL	O-C-N	-6.45	114.51	122.57
1	9q	140	LYS	N-CA-C	6.45	118.31	111.28
1	9x	193	ASN	OD1-CG-ND2	-6.45	116.15	122.60
1	9D	134	ILE	N-CA-CB	-6.45	103.01	110.55
1	a9	175	GLU	N-CA-C	6.45	121.23	113.23
1	ah	171	THR	CA-C-O	6.45	127.39	119.97
1	am	157	PRO	N-CA-C	-6.45	105.64	114.80
1	aw	161	PHE	CA-C-N	6.45	130.49	120.82
1	aw	161	PHE	C-N-CA	6.45	130.49	120.82
1	aO	129	ILE	N-CA-C	6.45	117.20	110.62
1	aU	3	VAL	N-CA-C	6.45	116.91	107.75
1	aU	134	ILE	CA-C-O	-6.45	114.24	120.95
1	bm	129	ILE	CA-C-N	6.45	129.45	120.29
1	bm	129	ILE	C-N-CA	6.45	129.45	120.29
1	bQ	167	ARG	N-CA-C	6.45	117.97	111.07
1	cf	95	GLN	N-CA-C	-6.45	96.74	108.02
1	cD	195	ASN	CA-C-N	6.45	127.90	119.84
1	cD	195	ASN	C-N-CA	6.45	127.90	119.84
1	cN	38	PRO	CA-C-N	6.45	130.11	120.31
1	cN	38	PRO	C-N-CA	6.45	130.11	120.31
1	cP	197	ASP	N-CA-C	6.45	118.31	111.28
1	cT	134	ILE	CA-C-N	6.45	129.58	120.42
1	cT	134	ILE	C-N-CA	6.45	129.58	120.42
1	cZ	159	GLU	CA-C-O	-6.45	113.65	120.23
1	dh	62	HIS	CB-CA-C	-6.45	102.38	111.80
1	dU	109	SER	CA-C-N	6.45	132.71	120.97
1	dU	109	SER	C-N-CA	6.45	132.71	120.97
1	dW	20	LEU	CA-C-O	-6.45	113.72	120.55
1	e9	154	ARG	NE-CZ-NH2	6.45	125.00	119.20
1	ee	147	PRO	CA-C-N	6.45	130.92	121.31
1	ee	147	PRO	C-N-CA	6.45	130.92	121.31
1	ev	195	ASN	CB-CA-C	6.45	119.71	109.52
1	eP	88	ALA	CA-C-N	6.45	131.99	121.87
1	eP	88	ALA	C-N-CA	6.45	131.99	121.87
1	eQ	133	TRP	CA-C-O	6.45	127.39	120.55
1	f5	164	TYR	O-C-N	-6.45	115.28	122.12
1	fc	171	THR	N-CA-CB	6.45	119.60	110.12
1	1z	18	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	1z	80	TRP	CB-CA-C	-6.45	100.09	110.79
1	fO	121	ASN	CA-CB-CG	6.45	119.05	112.60
1	fS	100	ARG	CA-C-N	6.45	127.09	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	100	ARG	C-N-CA	6.45	127.09	120.00
1	fV	173	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	k	141	ILE	O-C-N	-6.45	115.61	121.87
1	p	49	PRO	CA-C-N	6.45	128.92	120.28
1	p	49	PRO	C-N-CA	6.45	128.92	120.28
1	K	39	MET	O-C-N	-6.45	115.28	122.12
1	M	54	THR	N-CA-CB	6.45	119.73	110.06
1	N	175	GLU	CB-CA-C	6.45	120.08	109.70
1	7	89	GLY	CA-C-N	6.45	126.47	119.89
1	7	89	GLY	C-N-CA	6.45	126.47	119.89
1	h2	22	ALA	O-C-N	-6.45	115.29	122.12
1	hE	41	SER	CA-C-N	6.45	129.79	120.38
1	hE	41	SER	C-N-CA	6.45	129.79	120.38
1	hR	166	ASP	CA-CB-CG	6.45	119.05	112.60
1	iI	200	THR	N-CA-CB	6.45	119.70	110.16
1	iR	230	VAL	CA-C-N	6.45	133.30	121.70
1	iR	230	VAL	C-N-CA	6.45	133.30	121.70
1	iX	120	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	jo	153	ILE	N-CA-C	6.45	117.36	109.30
1	jt	136	LEU	CA-C-N	6.45	127.28	119.99
1	jt	136	LEU	C-N-CA	6.45	127.28	119.99
1	jX	113	GLU	CA-C-N	6.45	129.56	120.28
1	jX	113	GLU	C-N-CA	6.45	129.56	120.28
1	jZ	226	HIS	CG-CD2-NE2	6.45	113.65	107.20
1	26	90	PRO	N-CA-C	6.45	121.46	111.21
1	lL	143	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	2p	159	GLU	CA-C-O	-6.45	112.99	119.24
1	33	6	LEU	CA-C-O	6.45	127.34	120.70
1	3a	180	GLU	CA-CB-CG	6.45	126.99	114.10
1	3b	195	ASN	CA-C-N	6.45	127.90	119.84
1	3b	195	ASN	C-N-CA	6.45	127.90	119.84
1	3A	84	HIS	N-CA-C	6.45	121.41	109.10
1	3T	12	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	44	148	THR	CA-C-O	6.45	128.13	121.23
1	47	124	ILE	O-C-N	-6.45	114.99	120.92
1	4q	167	ARG	CA-C-N	6.45	129.24	120.54
1	4q	167	ARG	C-N-CA	6.45	129.24	120.54
1	54	43	LEU	N-CA-CB	-6.45	99.58	110.41
1	5h	104	ILE	O-C-N	-6.45	114.52	121.80
1	5w	59	VAL	O-C-N	-6.45	115.19	121.83
1	6V	88	ALA	N-CA-C	6.45	118.65	110.33
1	74	107	THR	N-CA-C	6.45	118.39	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	157	PRO	N-CA-C	6.45	122.02	113.57
1	7g	62	HIS	ND1-CE1-NE2	6.45	114.85	108.40
1	7E	222	GLY	CA-C-N	6.45	131.99	121.87
1	7E	222	GLY	C-N-CA	6.45	131.99	121.87
1	8d	156	GLY	CA-C-N	6.45	126.02	119.19
1	8d	156	GLY	C-N-CA	6.45	126.02	119.19
1	8Q	123	PRO	CA-C-O	-6.45	113.89	121.95
1	96	117	TRP	CD2-CE2-CZ2	-6.45	115.95	122.40
1	9i	179	GLN	O-C-N	-6.45	115.29	122.12
1	b3	14	ALA	O-C-N	-6.45	114.94	122.87
1	bh	9	GLN	CA-C-N	6.45	133.85	121.54
1	bh	9	GLN	C-N-CA	6.45	133.85	121.54
1	1b	5	ASN	O-C-N	-6.45	114.96	122.95
1	cK	152	ASP	N-CA-C	-6.45	105.37	112.72
1	dm	46	GLY	N-CA-C	-6.45	105.15	115.08
1	dm	227	LYS	N-CA-CB	6.45	119.70	110.16
1	dN	76	GLU	N-CA-C	6.45	118.31	111.28
1	e2	7	GLN	CA-C-N	6.45	134.05	121.41
1	e2	7	GLN	C-N-CA	6.45	134.05	121.41
1	e2	204	ALA	N-CA-C	6.45	117.97	111.07
1	eG	56	LEU	N-CA-C	6.45	118.31	111.28
1	1t	66	MET	CA-C-O	6.45	127.59	120.82
1	f3	32	PHE	CB-CA-C	6.45	119.82	111.50
1	ff	173	ARG	O-C-N	-6.45	115.43	122.07
1	fI	126	VAL	O-C-N	-6.45	115.57	121.89
1	e	167	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	H	42	ALA	N-CA-CB	-6.45	100.62	110.16
1	gd	167	ARG	NE-CZ-NH1	6.45	127.94	121.50
1	gu	23	TRP	CB-CG-CD1	-6.45	117.23	126.90
1	gT	215	MET	N-CA-CB	6.45	120.15	110.22
1	h0	151	LEU	O-C-N	6.45	129.76	122.22
1	hF	82	ARG	O-C-N	-6.45	115.43	122.07
1	hW	203	LYS	N-CA-C	6.45	118.31	111.28
1	i6	48	THR	O-C-N	-6.45	116.50	121.14
1	1P	154	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	iq	53	ASN	CA-CB-CG	-6.45	106.15	112.60
1	iu	221	VAL	CA-C-O	6.45	126.92	119.89
1	iZ	102	SER	CA-C-O	6.45	126.85	119.18
1	1T	98	GLU	O-C-N	-6.45	114.44	121.53
1	jy	167	ARG	NE-CZ-NH1	6.45	127.94	121.50
1	jz	20	LEU	CA-C-N	6.45	129.21	120.38
1	jz	20	LEU	C-N-CA	6.45	129.21	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jO	62	HIS	N-CA-C	6.45	120.06	111.30
1	jV	203	LYS	N-CA-C	6.45	118.31	111.28
1	k2	157	PRO	N-CA-CB	6.45	110.02	103.25
1	kK	11	VAL	N-CA-C	6.45	117.64	108.42
1	24	104	ILE	O-C-N	6.45	128.12	121.87
1	lh	57	ASN	CA-C-N	6.45	129.21	120.38
1	lh	57	ASN	C-N-CA	6.45	129.21	120.38
1	lj	205	LEU	N-CA-C	6.45	117.97	111.07
1	lu	186	THR	CA-CB-OG1	6.45	119.27	109.60
1	lz	227	LYS	N-CA-CB	6.45	119.63	110.67
1	2e	191	VAL	CB-CA-C	-6.45	101.82	112.26
1	2j	43	LEU	CA-C-O	6.45	127.10	119.56
1	2l	48	THR	CA-C-O	-6.45	113.41	120.69
1	2q	155	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	2w	33	SER	CA-C-O	-6.45	115.10	120.71
1	2z	142	VAL	N-CA-CB	6.45	119.31	110.54
1	30	52	LEU	CA-C-O	-6.45	114.05	120.82
1	3c	230	VAL	N-CA-C	6.45	117.63	108.93
1	3A	82	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	3T	103	ASP	CA-C-N	6.45	129.29	120.46
1	3T	103	ASP	C-N-CA	6.45	129.29	120.46
1	3T	130	TYR	CA-C-N	6.45	129.21	120.38
1	3T	130	TYR	C-N-CA	6.45	129.21	120.38
1	4e	119	THR	CA-C-N	6.45	130.48	120.75
1	4e	119	THR	C-N-CA	6.45	130.48	120.75
1	4i	3	VAL	CB-CA-C	6.45	120.17	110.63
1	4E	198	CYS	CA-C-N	6.45	128.92	120.28
1	4E	198	CYS	C-N-CA	6.45	128.92	120.28
1	4Q	119	THR	CA-CB-OG1	6.45	119.27	109.60
1	4S	27	VAL	CA-C-N	6.45	128.82	120.44
1	4S	27	VAL	C-N-CA	6.45	128.82	120.44
1	5g	173	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	5x	59	VAL	CA-CB-CG2	-6.45	99.44	110.40
1	5D	97	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	5F	166	ASP	CA-C-O	-6.45	114.00	120.90
1	5O	230	VAL	N-CA-C	-6.45	105.45	111.45
1	66	112	GLN	OE1-CD-NE2	-6.45	116.15	122.60
1	6h	87	HIS	CE1-NE2-CD2	-6.45	102.56	109.00
1	6p	177	ALA	CA-C-O	6.45	128.28	121.19
1	6z	55	MET	N-CA-C	6.45	118.10	111.14
1	6G	209	ALA	N-CA-C	6.45	119.82	110.28
1	6R	175	GLU	O-C-N	-6.45	115.50	123.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	70	98	GLU	O-C-N	-6.45	115.42	121.35
1	7I	205	LEU	CA-C-O	-6.45	113.72	120.55
1	7K	176	GLN	CA-C-N	6.45	130.48	120.75
1	7K	176	GLN	C-N-CA	6.45	130.48	120.75
1	7Z	126	VAL	CA-C-O	-6.45	114.25	120.95
1	8d	87	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
1	8d	200	THR	N-CA-C	6.45	118.10	111.14
1	8x	73	ILE	O-C-N	-6.45	115.59	121.91
1	8C	5	ASN	CA-C-N	6.45	133.17	123.05
1	8C	5	ASN	C-N-CA	6.45	133.17	123.05
1	95	52	LEU	O-C-N	6.45	128.71	122.07
1	9j	31	ALA	CB-CA-C	-6.45	108.12	115.79
1	9p	126	VAL	CA-CB-CG2	6.45	121.36	110.40
1	9t	133	TRP	CA-C-N	6.45	129.57	120.42
1	9t	133	TRP	C-N-CA	6.45	129.57	120.42
1	9u	184	TRP	CA-C-N	6.45	128.92	120.28
1	9u	184	TRP	C-N-CA	6.45	128.92	120.28
1	9y	156	GLY	O-C-N	-6.45	115.32	121.77
1	9L	39	MET	CA-C-N	6.45	129.24	120.54
1	9L	39	MET	C-N-CA	6.45	129.24	120.54
1	a1	32	PHE	CA-C-O	6.45	127.10	119.56
1	a5	83	LEU	O-C-N	6.45	129.50	122.15
1	a6	139	ASN	N-CA-C	6.45	118.31	111.28
1	aA	229	ARG	NE-CZ-NH1	6.45	127.95	121.50
1	aT	20	LEU	N-CA-C	6.45	118.31	111.28
1	bb	26	VAL	CA-C-N	6.45	128.91	120.60
1	bb	26	VAL	C-N-CA	6.45	128.91	120.60
1	be	98	GLU	CA-C-N	6.45	126.79	119.83
1	be	98	GLU	C-N-CA	6.45	126.79	119.83
1	bf	175	GLU	O-C-N	-6.45	115.63	123.30
1	bM	57	ASN	O-C-N	-6.45	115.29	122.12
1	bU	166	ASP	CB-CA-C	6.45	121.12	110.81
1	1b	51	ASP	CB-CA-C	-6.45	99.89	110.85
1	c1	150	ILE	CA-C-N	6.45	132.98	120.99
1	c1	150	ILE	C-N-CA	6.45	132.98	120.99
1	c9	135	ILE	CA-C-N	6.45	128.92	120.28
1	c9	135	ILE	C-N-CA	6.45	128.92	120.28
1	ck	72	THR	O-C-N	-6.45	115.29	122.12
1	cH	51	ASP	CA-C-N	6.45	129.24	120.54
1	cH	51	ASP	C-N-CA	6.45	129.24	120.54
1	cP	226	HIS	N-CA-C	6.45	120.24	112.38
1	cS	121	ASN	CA-CB-CG	6.45	119.05	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d3	55	MET	N-CA-C	6.45	119.12	111.71
1	dr	151	LEU	N-CA-C	6.45	119.30	111.82
1	dy	164	TYR	N-CA-C	6.45	117.97	111.07
1	dA	229	ARG	NE-CZ-NH2	-6.45	113.40	119.20
1	ep	151	LEU	CA-C-O	-6.45	113.72	120.55
1	eu	167	ARG	CA-C-N	6.45	129.16	120.65
1	eu	167	ARG	C-N-CA	6.45	129.16	120.65
1	ew	114	GLN	O-C-N	-6.45	114.34	122.27
1	f1	101	GLY	CA-C-O	6.45	127.12	120.80
1	fg	3	VAL	O-C-N	-6.45	113.63	122.59
1	fB	127	GLY	CA-C-O	6.45	127.96	121.00
1	fN	69	LEU	N-CA-C	6.45	118.31	111.28
1	1D	103	ASP	CA-C-N	6.44	129.29	120.46
1	1D	103	ASP	C-N-CA	6.44	129.29	120.46
1	gM	149	SER	O-C-N	-6.44	114.72	122.65
1	gO	113	GLU	CA-C-N	6.44	129.24	120.54
1	gO	113	GLU	C-N-CA	6.44	129.24	120.54
1	hR	77	ALA	O-C-N	-6.44	115.29	122.12
1	iE	214	MET	CA-C-N	6.44	129.44	120.29
1	iE	214	MET	C-N-CA	6.44	129.44	120.29
1	1T	163	ASP	CA-CB-CG	-6.44	106.16	112.60
1	jd	202	LEU	CA-C-N	6.44	129.21	120.38
1	jd	202	LEU	C-N-CA	6.44	129.21	120.38
1	ju	137	GLY	CA-C-N	6.44	128.82	120.44
1	ju	137	GLY	C-N-CA	6.44	128.82	120.44
1	jF	156	GLY	O-C-N	-6.44	115.33	121.77
1	k3	36	VAL	N-CA-C	-6.44	104.05	110.62
1	kR	162	ARG	NH1-CZ-NH2	-6.44	110.92	119.30
1	kY	90	PRO	CB-CA-C	-6.44	103.15	111.46
1	26	111	LEU	N-CA-C	6.44	117.97	111.07
1	2d	40	PHE	N-CA-C	6.44	118.30	111.28
1	2O	211	LEU	CA-C-O	6.44	127.38	120.10
1	4B	37	ILE	CA-C-O	6.44	123.01	118.69
1	5e	37	ILE	N-CA-C	6.44	121.95	112.61
1	5v	124	ILE	O-C-N	-6.44	117.31	121.37
1	6L	184	TRP	CA-C-O	6.44	127.25	120.42
1	7b	67	GLN	CA-CB-CG	6.44	126.99	114.10
1	7X	54	THR	CA-C-O	6.44	127.59	120.82
1	8I	201	ILE	CB-CA-C	6.44	120.22	111.97
1	94	226	HIS	CB-CG-CD2	-6.44	122.82	131.20
1	10	170	LYS	N-CA-CB	6.44	119.59	110.12
1	aC	5	ASN	N-CA-CB	6.44	120.34	110.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	57	ASN	CA-CB-CG	-6.44	106.16	112.60
1	bn	50	GLN	N-CA-CB	6.44	119.59	110.12
1	bI	107	THR	CB-CA-C	6.44	119.47	109.03
1	bX	164	TYR	O-C-N	-6.44	115.39	122.09
1	bY	190	LEU	N-CA-C	6.44	118.30	111.28
1	cV	68	MET	CG-SD-CE	-6.44	86.72	100.90
1	da	101	GLY	O-C-N	-6.44	115.94	122.19
1	1j	122	PRO	CA-C-N	6.44	126.46	119.89
1	1j	122	PRO	C-N-CA	6.44	126.46	119.89
1	1m	84	HIS	CE1-NE2-CD2	-6.44	102.56	109.00
1	dT	106	GLY	CA-C-O	6.44	125.92	118.96
1	e8	10	MET	CA-C-O	6.44	128.27	120.92
1	ef	57	ASN	CA-CB-CG	-6.44	106.16	112.60
1	eS	40	PHE	CA-C-N	6.44	128.82	120.44
1	eS	40	PHE	C-N-CA	6.44	128.82	120.44
1	fm	82	ARG	N-CA-C	6.44	117.97	111.07
1	fn	188	THR	CA-C-O	6.44	129.72	120.51
1	fy	54	THR	N-CA-CB	6.44	119.73	110.06
1	1z	21	ASN	CA-C-N	6.44	128.82	120.44
1	1z	21	ASN	C-N-CA	6.44	128.82	120.44
1	fR	79	GLU	CB-CG-CD	-6.44	101.65	112.60
1	fW	111	LEU	CB-CA-C	6.44	121.12	110.81
1	g5	167	ARG	NE-CZ-NH2	-6.44	113.40	119.20
1	V	106	GLY	CA-C-N	6.44	129.20	120.44
1	V	106	GLY	C-N-CA	6.44	129.20	120.44
1	gf	155	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	gp	21	ASN	CA-C-N	6.44	129.24	120.54
1	gp	21	ASN	C-N-CA	6.44	129.24	120.54
1	gF	115	ILE	O-C-N	6.44	128.22	121.91
1	gM	222	GLY	CA-C-O	-6.44	113.56	121.68
1	gR	82	ARG	N-CA-C	6.44	119.12	111.71
1	hr	112	GLN	N-CA-C	6.44	122.00	111.37
1	hI	154	ARG	NE-CZ-NH2	6.44	125.00	119.20
1	hL	124	ILE	CA-C-O	-6.44	113.44	119.62
1	hN	168	PHE	CB-CA-C	6.44	121.00	110.88
1	hN	189	LEU	CA-C-O	6.44	127.58	120.82
1	ii	63	GLN	CA-C-N	6.44	128.91	120.28
1	ii	63	GLN	C-N-CA	6.44	128.91	120.28
1	ii	162	ARG	N-CA-C	6.44	119.12	111.33
1	in	10	MET	N-CA-C	6.44	119.02	108.52
1	iY	195	ASN	CA-CB-CG	6.44	119.04	112.60
1	je	32	PHE	CA-CB-CG	-6.44	107.36	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	je	161	PHE	CA-C-N	6.44	128.91	120.28
1	je	161	PHE	C-N-CA	6.44	128.91	120.28
1	ji	153	ILE	CA-C-O	-6.44	113.66	121.13
1	kd	100	ARG	O-C-N	-6.44	114.73	122.65
1	kh	189	LEU	CA-C-N	6.44	128.81	120.44
1	kh	189	LEU	C-N-CA	6.44	128.81	120.44
1	l7	94	GLY	CA-C-O	6.44	127.95	119.58
1	lb	83	LEU	CA-C-O	6.44	127.25	120.42
1	le	78	ALA	CA-C-N	6.44	128.81	120.44
1	le	78	ALA	C-N-CA	6.44	128.81	120.44
1	27	148	THR	N-CA-CB	6.44	119.79	110.06
1	lw	173	ARG	N-CA-C	6.44	117.96	111.07
1	2c	166	ASP	CA-C-O	6.44	127.79	120.90
1	2O	54	THR	CA-CB-CG2	6.44	121.45	110.50
1	3b	62	HIS	CA-CB-CG	6.44	120.24	113.80
1	3o	203	LYS	N-CA-CB	6.44	119.69	110.16
1	3r	103	ASP	CA-C-N	6.44	129.29	120.46
1	3r	103	ASP	C-N-CA	6.44	129.29	120.46
1	3N	5	ASN	OD1-CG-ND2	-6.44	116.16	122.60
1	4a	18	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	4h	215	MET	O-C-N	-6.44	115.29	122.12
1	4B	187	GLU	N-CA-C	6.44	120.35	112.23
1	4E	218	CYS	O-C-N	-6.44	115.47	123.33
1	5A	63	GLN	CB-CA-C	6.44	121.48	110.79
1	5J	66	MET	CA-C-N	6.44	128.81	120.44
1	5J	66	MET	C-N-CA	6.44	128.81	120.44
1	5O	134	ILE	CA-C-O	-6.44	114.25	120.95
1	5R	37	ILE	N-CA-C	6.44	122.80	108.88
1	5T	113	GLU	CA-C-N	6.44	128.91	120.28
1	5T	113	GLU	C-N-CA	6.44	128.91	120.28
1	65	4	GLN	O-C-N	-6.44	114.89	122.81
1	6n	80	TRP	CA-CB-CG	6.44	125.84	113.60
1	6E	124	ILE	CA-C-N	6.44	127.89	119.84
1	6E	124	ILE	C-N-CA	6.44	127.89	119.84
1	6I	67	GLN	CA-C-O	6.44	127.38	120.55
1	6J	49	PRO	CA-C-N	6.44	128.91	120.28
1	6J	49	PRO	C-N-CA	6.44	128.91	120.28
1	7g	88	ALA	O-C-N	6.44	130.16	122.94
1	7o	84	HIS	CA-C-N	6.44	126.81	119.92
1	7o	84	HIS	C-N-CA	6.44	126.81	119.92
1	7q	58	THR	O-C-N	-6.44	114.35	122.27
1	7s	226	HIS	CE1-NE2-CD2	-6.44	102.56	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7u	200	THR	N-CA-C	6.44	118.84	111.11
1	7z	5	ASN	OD1-CG-ND2	-6.44	116.16	122.60
1	7A	139	ASN	CB-CA-C	6.44	121.00	110.88
1	7U	213	GLU	CB-CG-CD	-6.44	101.65	112.60
1	7Z	63	GLN	N-CA-C	6.44	120.00	111.75
1	80	217	ALA	N-CA-C	6.44	124.52	110.80
1	8k	11	VAL	CA-C-O	-6.44	113.67	120.76
1	8R	223	GLY	O-C-N	-6.44	115.33	121.77
1	8W	217	ALA	N-CA-C	6.44	124.52	110.80
1	9k	102	SER	CA-C-N	6.44	129.44	120.29
1	9k	102	SER	C-N-CA	6.44	129.44	120.29
1	9I	165	VAL	N-CA-CB	6.44	118.82	110.57
1	au	107	THR	CA-CB-CG2	6.44	121.45	110.50
1	aC	82	ARG	N-CA-C	6.44	118.30	111.28
1	aM	184	TRP	CB-CG-CD2	6.44	135.82	126.80
1	aY	30	LYS	CB-CG-CD	6.44	126.12	111.30
1	b7	92	GLU	CA-C-O	-6.44	113.47	120.17
1	bj	87	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	bn	22	ALA	O-C-N	-6.44	115.44	122.07
1	1d	121	ASN	OD1-CG-ND2	-6.44	116.16	122.60
1	cs	149	SER	O-C-N	-6.44	115.50	122.85
1	ct	60	GLY	CA-C-N	6.44	127.46	120.44
1	ct	60	GLY	C-N-CA	6.44	127.46	120.44
1	cA	179	GLN	O-C-N	-6.44	115.29	122.12
1	dd	170	LYS	CA-C-O	6.44	127.25	120.42
1	dt	148	THR	N-CA-C	6.44	121.14	113.28
1	dK	196	PRO	CA-C-N	6.44	128.91	120.28
1	dK	196	PRO	C-N-CA	6.44	128.91	120.28
1	eb	82	ARG	N-CA-C	6.44	117.96	111.07
1	eF	154	ARG	NE-CZ-NH1	-6.44	115.06	121.50
1	eH	229	ARG	CD-NE-CZ	6.44	133.42	124.40
1	eS	103	ASP	CA-C-O	-6.44	113.09	120.24
1	eY	101	GLY	CA-C-N	6.44	130.10	120.31
1	eY	101	GLY	C-N-CA	6.44	130.10	120.31
1	fI	4	GLN	N-CA-CB	6.44	119.56	109.83
1	fO	106	GLY	O-C-N	-6.44	114.79	122.33
1	a	98	GLU	CA-C-O	-6.44	113.29	120.25
1	2	132	ARG	O-C-N	-6.44	115.29	122.12
1	g9	203	LYS	CA-C-N	-6.44	111.65	120.28
1	g9	203	LYS	C-N-CA	-6.44	111.65	120.28
1	gu	219	GLN	OE1-CD-NE2	6.44	129.04	122.60
1	gP	185	MET	N-CA-C	6.44	118.38	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gU	166	ASP	CA-C-O	6.44	127.38	120.55
1	hr	167	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	hO	55	MET	N-CA-CB	6.44	119.35	110.01
1	hS	177	ALA	N-CA-C	6.44	118.87	110.43
1	hY	23	TRP	N-CA-C	6.44	118.38	111.36
1	i9	34	PRO	CA-C-N	6.44	129.78	120.38
1	i9	34	PRO	C-N-CA	6.44	129.78	120.38
1	il	13	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	iA	49	PRO	N-CA-C	6.44	123.35	113.75
1	iJ	154	ARG	O-C-N	-6.44	115.50	123.36
1	iX	163	ASP	N-CA-CB	6.44	119.59	110.12
1	jc	132	ARG	NE-CZ-NH2	6.44	125.00	119.20
1	jm	85	PRO	CA-C-N	6.44	131.53	121.35
1	jm	85	PRO	C-N-CA	6.44	131.53	121.35
1	jy	141	ILE	N-CA-CB	6.44	118.52	110.47
1	jM	26	VAL	CA-C-O	-6.44	114.25	120.95
1	1Y	206	GLY	CA-C-N	-6.44	113.60	120.94
1	1Y	206	GLY	C-N-CA	-6.44	113.60	120.94
1	kf	137	GLY	O-C-N	-6.44	114.59	122.71
1	ko	226	HIS	ND1-CE1-NE2	6.44	114.84	108.40
1	kL	23	TRP	CA-C-O	6.44	127.25	120.42
1	kT	48	THR	N-CA-CB	6.44	118.67	109.78
1	lu	77	ALA	CA-C-N	6.44	128.81	120.44
1	lu	77	ALA	C-N-CA	6.44	128.81	120.44
1	29	80	TRP	CA-C-O	6.44	127.58	120.82
1	2a	55	MET	CA-C-N	6.44	128.91	120.28
1	2a	55	MET	C-N-CA	6.44	128.91	120.28
1	2d	91	ILE	O-C-N	-6.44	115.62	122.83
1	2h	164	TYR	O-C-N	-6.44	115.29	122.12
1	2F	184	TRP	CB-CG-CD1	6.44	136.56	126.90
1	34	154	ARG	O-C-N	-6.44	114.78	123.15
1	3H	84	HIS	O-C-N	-6.44	112.52	121.47
1	3M	45	GLU	N-CA-C	6.44	119.12	111.33
1	3W	4	GLN	CA-C-O	6.44	126.14	119.05
1	3W	173	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	3Y	186	THR	CA-CB-OG1	-6.44	99.94	109.60
1	44	36	VAL	CA-C-N	6.44	125.48	120.33
1	44	36	VAL	C-N-CA	6.44	125.48	120.33
1	47	150	ILE	CA-CB-CG1	6.44	121.35	110.40
1	4l	175	GLU	N-CA-C	6.44	118.65	108.67
1	4G	151	LEU	CA-C-N	6.44	129.44	120.29
1	4G	151	LEU	C-N-CA	6.44	129.44	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	58	107	THR	N-CA-C	6.44	124.52	110.80
1	5k	88	ALA	CA-C-N	6.44	131.98	121.87
1	5k	88	ALA	C-N-CA	6.44	131.98	121.87
1	5y	32	PHE	N-CA-C	6.44	119.58	110.50
1	5Q	143	ARG	NE-CZ-NH2	6.44	125.00	119.20
1	5Q	226	HIS	ND1-CE1-NE2	6.44	114.84	108.40
1	5T	129	ILE	CA-C-N	6.44	128.91	120.28
1	5T	129	ILE	C-N-CA	6.44	128.91	120.28
1	6h	64	ALA	N-CA-CB	6.44	119.35	110.01
1	6j	189	LEU	N-CA-C	6.44	118.84	111.11
1	6m	217	ALA	CA-C-N	6.44	131.29	122.34
1	6m	217	ALA	C-N-CA	6.44	131.29	122.34
1	6K	126	VAL	CB-CA-C	-6.44	103.73	111.97
1	6W	63	GLN	CA-C-N	6.44	129.44	120.29
1	6W	63	GLN	C-N-CA	6.44	129.44	120.29
1	6Z	174	ALA	O-C-N	-6.44	114.29	122.34
1	70	18	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	73	143	ARG	N-CA-C	6.44	118.30	111.28
1	7a	121	ASN	CA-CB-CG	-6.44	106.16	112.60
1	7f	45	GLU	N-CA-C	6.44	120.00	111.75
1	7l	226	HIS	CE1-NE2-CD2	-6.44	102.56	109.00
1	7r	69	LEU	CB-CA-C	6.44	121.48	110.79
1	7B	152	ASP	CB-CA-C	-6.44	98.44	109.65
1	7N	153	ILE	N-CA-CB	6.44	118.76	110.13
1	88	60	GLY	CA-C-N	6.44	130.85	121.96
1	88	60	GLY	C-N-CA	6.44	130.85	121.96
1	8o	159	GLU	CA-C-N	6.44	126.82	119.93
1	8o	159	GLU	C-N-CA	6.44	126.82	119.93
1	8P	141	ILE	CA-C-N	6.44	128.91	120.60
1	8P	141	ILE	C-N-CA	6.44	128.91	120.60
1	8X	133	TRP	CA-C-N	6.44	128.67	120.56
1	8X	133	TRP	C-N-CA	6.44	128.67	120.56
1	9f	153	ILE	N-CA-C	6.44	117.34	108.84
1	9D	145	TYR	N-CA-C	-6.44	104.73	112.59
1	9X	32	PHE	CA-CB-CG	-6.44	107.36	113.80
1	ae	173	ARG	NE-CZ-NH2	6.44	125.00	119.20
1	aA	210	THR	N-CA-CB	6.44	120.91	110.41
1	aE	154	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	aE	226	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	b0	77	ALA	CA-C-O	6.44	127.38	120.55
1	b8	130	TYR	CA-C-N	6.44	128.91	120.28
1	b8	130	TYR	C-N-CA	6.44	128.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bh	185	MET	N-CA-C	6.44	117.96	111.07
1	17	169	TYR	CG-CD1-CE1	-6.44	111.54	121.20
1	bj	212	GLU	CB-CA-C	6.44	121.48	110.79
1	19	187	GLU	N-CA-CB	6.44	119.87	110.47
1	bQ	189	LEU	N-CA-CB	6.44	120.33	110.61
1	1b	155	GLN	CG-CD-NE2	6.44	126.06	116.40
1	cd	2	ILE	N-CA-C	6.44	119.75	110.09
1	1f	101	GLY	CA-C-O	6.44	127.38	120.75
1	cA	71	GLU	CA-C-N	6.44	128.91	120.28
1	cA	71	GLU	C-N-CA	6.44	128.91	120.28
1	cM	137	GLY	CA-C-O	6.44	127.49	120.66
1	cM	222	GLY	CA-C-N	6.44	131.98	121.87
1	cM	222	GLY	C-N-CA	6.44	131.98	121.87
1	d3	182	LYS	CA-C-N	6.44	128.91	120.28
1	d3	182	LYS	C-N-CA	6.44	128.91	120.28
1	d4	2	ILE	N-CA-CB	6.44	119.79	111.67
1	dr	4	GLN	O-C-N	-6.44	115.67	123.27
1	dU	193	ASN	N-CA-C	6.44	120.97	113.18
1	e4	10	MET	N-CA-C	6.44	119.70	110.10
1	e8	125	PRO	CA-C-N	6.44	128.67	120.56
1	e8	125	PRO	C-N-CA	6.44	128.67	120.56
1	eF	114	GLN	CA-C-N	6.44	129.28	120.46
1	eF	114	GLN	C-N-CA	6.44	129.28	120.46
1	eI	69	LEU	O-C-N	-6.44	115.44	122.07
1	1t	167	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	fi	229	ARG	NH1-CZ-NH2	-6.44	110.93	119.30
1	fk	97	ARG	O-C-N	-6.44	115.26	122.86
1	1x	82	ARG	CA-C-N	6.44	129.15	120.65
1	1x	82	ARG	C-N-CA	6.44	129.15	120.65
1	g	74	ASN	CA-C-N	6.44	129.20	120.38
1	g	74	ASN	C-N-CA	6.44	129.20	120.38
1	i	130	TYR	CA-C-O	6.44	127.25	120.42
1	gs	228	ALA	N-CA-C	6.44	120.17	110.64
1	hp	229	ARG	NE-CZ-NH2	-6.44	113.41	119.20
1	iG	120	HIS	CA-CB-CG	6.44	120.24	113.80
1	iR	92	GLU	CA-C-N	6.44	127.89	119.84
1	iR	92	GLU	C-N-CA	6.44	127.89	119.84
1	jT	221	VAL	N-CA-C	6.44	118.36	109.80
1	kn	5	ASN	OD1-CG-ND2	-6.44	116.16	122.60
1	23	226	HIS	CE1-NE2-CD2	-6.44	102.56	109.00
1	kU	162	ARG	N-CA-C	6.44	117.96	111.07
1	lg	84	HIS	CA-C-N	6.44	127.89	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lg	84	HIS	C-N-CA	6.44	127.89	119.84
1	lp	199	LYS	CA-CB-CG	6.44	126.98	114.10
1	31	124	ILE	CA-C-O	-6.44	114.44	119.98
1	3g	205	LEU	CA-C-O	6.44	127.38	120.55
1	3h	32	PHE	CA-C-O	6.44	127.79	120.84
1	3r	24	VAL	N-CA-C	6.44	119.14	111.09
1	45	64	ALA	CA-C-N	6.44	128.91	120.28
1	45	64	ALA	C-N-CA	6.44	128.91	120.28
1	4n	120	HIS	CA-CB-CG	6.44	120.24	113.80
1	4O	4	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	4V	116	GLY	CA-C-N	6.44	129.23	120.54
1	4V	116	GLY	C-N-CA	6.44	129.23	120.54
1	58	134	ILE	N-CA-C	6.44	117.19	110.62
1	5u	125	PRO	N-CA-CB	-6.44	97.34	102.36
1	6V	62	HIS	ND1-CE1-NE2	6.44	114.84	108.40
1	7x	86	VAL	N-CA-CB	6.44	121.86	111.23
1	7G	101	GLY	CA-C-N	6.44	128.91	120.28
1	7G	101	GLY	C-N-CA	6.44	128.91	120.28
1	8I	98	GLU	CA-C-O	6.44	124.42	119.46
1	8J	114	GLN	O-C-N	6.44	128.94	122.12
1	91	16	SER	N-CA-C	6.44	117.82	109.64
1	9c	45	GLU	O-C-N	-6.44	114.86	122.20
1	9L	116	GLY	O-C-N	-6.44	115.75	122.13
1	9N	137	GLY	CA-C-N	6.44	128.91	120.28
1	9N	137	GLY	C-N-CA	6.44	128.91	120.28
1	Y	23	TRP	O-C-N	-6.44	115.29	122.12
1	a7	78	ALA	N-CA-C	6.44	119.12	111.33
1	aq	184	TRP	N-CA-C	6.44	118.30	111.28
1	aQ	65	ALA	O-C-N	-6.44	114.81	122.15
1	b2	58	THR	CA-CB-OG1	6.44	119.26	109.60
1	bN	122	PRO	CA-C-N	6.44	126.47	119.90
1	bN	122	PRO	C-N-CA	6.44	126.47	119.90
1	cC	110	THR	CA-C-O	6.44	128.44	121.16
1	cE	135	ILE	CA-C-O	6.44	127.68	120.85
1	d6	210	THR	CA-C-N	6.44	129.23	120.54
1	d6	210	THR	C-N-CA	6.44	129.23	120.54
1	df	80	TRP	CA-C-N	6.44	128.91	120.28
1	df	80	TRP	C-N-CA	6.44	128.91	120.28
1	du	104	ILE	CA-C-N	6.44	128.91	120.28
1	du	104	ILE	C-N-CA	6.44	128.91	120.28
1	e5	126	VAL	N-CA-C	6.44	117.19	110.62
1	1s	176	GLN	N-CA-CB	6.44	120.29	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fj	125	PRO	CA-C-N	6.44	129.28	120.46
1	fj	125	PRO	C-N-CA	6.44	129.28	120.46
1	d	63	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	w	155	GLN	O-C-N	-6.44	114.85	122.96
1	J	66	MET	N-CA-C	6.44	118.30	111.28
1	gH	57	ASN	CA-CB-CG	-6.44	106.16	112.60
1	h3	133	TRP	CB-CG-CD2	-6.44	117.79	126.80
1	ho	87	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	hw	166	ASP	CA-CB-CG	-6.44	106.16	112.60
1	hO	179	GLN	OE1-CD-NE2	6.44	129.04	122.60
1	hW	9	GLN	CA-C-N	6.44	131.60	121.56
1	hW	9	GLN	C-N-CA	6.44	131.60	121.56
1	i7	140	LYS	CA-C-N	6.44	129.61	120.53
1	i7	140	LYS	C-N-CA	6.44	129.61	120.53
1	1P	117	TRP	O-C-N	-6.44	115.30	122.12
1	ix	38	PRO	CA-C-O	-6.44	109.88	119.34
1	iY	210	THR	CA-C-N	6.44	128.91	120.28
1	iY	210	THR	C-N-CA	6.44	128.91	120.28
1	jg	121	ASN	CB-CA-C	6.44	118.76	110.13
1	jH	18	ARG	N-CA-CB	6.44	119.34	110.01
1	jJ	82	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	jL	79	GLU	N-CA-C	6.44	118.83	111.11
1	1Z	152	ASP	CA-C-O	6.44	127.07	119.28
1	k1	82	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	k4	91	ILE	CA-C-O	6.44	127.15	120.39
1	kv	175	GLU	N-CA-C	6.44	119.67	109.50
1	kz	9	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	kD	11	VAL	N-CA-CB	-6.44	103.06	111.82
1	kD	154	ARG	CA-C-N	6.44	133.83	121.54
1	kD	154	ARG	C-N-CA	6.44	133.83	121.54
1	l2	71	GLU	CA-C-N	6.44	128.91	120.28
1	l2	71	GLU	C-N-CA	6.44	128.91	120.28
1	29	208	ALA	N-CA-C	6.44	120.75	113.02
1	lF	102	SER	CA-C-N	6.44	129.43	120.29
1	lF	102	SER	C-N-CA	6.44	129.43	120.29
1	lQ	84	HIS	CA-CB-CG	6.44	120.24	113.80
1	2q	219	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	2y	4	GLN	CG-CD-OE1	6.44	133.68	120.80
1	37	153	ILE	O-C-N	-6.44	115.89	122.14
1	3a	73	ILE	N-CA-C	6.44	116.60	110.42
1	3s	145	TYR	CB-CG-CD1	-6.44	111.14	120.80
1	3K	69	LEU	N-CA-C	6.44	117.96	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4a	11	VAL	N-CA-CB	-6.44	103.27	110.99
1	4d	88	ALA	CA-C-N	6.44	131.98	121.87
1	4d	88	ALA	C-N-CA	6.44	131.98	121.87
1	4d	134	ILE	CA-C-N	6.44	129.28	120.46
1	4d	134	ILE	C-N-CA	6.44	129.28	120.46
1	4y	15	ILE	O-C-N	-6.44	116.11	122.67
1	51	92	GLU	N-CA-C	-6.44	98.51	108.55
1	5I	67	GLN	N-CA-CB	6.44	119.58	110.12
1	5J	53	ASN	CA-CB-CG	-6.44	106.16	112.60
1	5K	95	GLN	CB-CA-C	6.44	120.41	109.53
1	5K	176	GLN	O-C-N	-6.44	114.43	122.35
1	65	192	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	6k	105	ALA	CA-C-N	6.44	133.18	121.85
1	6k	105	ALA	C-N-CA	6.44	133.18	121.85
1	6r	33	SER	CA-C-O	-6.44	113.08	120.03
1	6J	179	GLN	N-CA-C	6.44	117.96	111.07
1	74	25	LYS	N-CA-C	6.44	119.29	111.82
1	7i	191	VAL	CA-C-O	-6.44	113.52	120.47
1	7u	204	ALA	N-CA-C	6.44	118.38	111.36
1	7L	12	HIS	ND1-CE1-NE2	6.44	114.84	108.40
1	7L	18	ARG	CD-NE-CZ	6.44	133.41	124.40
1	7V	24	VAL	CA-C-O	-6.44	114.35	121.17
1	81	130	TYR	CA-C-N	6.44	128.91	120.28
1	81	130	TYR	C-N-CA	6.44	128.91	120.28
1	86	6	LEU	CA-C-N	6.44	133.84	121.54
1	86	6	LEU	C-N-CA	6.44	133.84	121.54
1	8d	204	ALA	CA-C-N	6.44	128.91	120.28
1	8d	204	ALA	C-N-CA	6.44	128.91	120.28
1	8l	143	ARG	N-CA-C	6.44	118.30	111.28
1	8t	211	LEU	CA-C-N	6.44	129.20	120.38
1	8t	211	LEU	C-N-CA	6.44	129.20	120.38
1	9b	106	GLY	CA-C-O	6.44	125.39	118.95
1	9b	114	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	9f	5	ASN	N-CA-CB	-6.44	100.90	110.17
1	9j	135	ILE	N-CA-C	6.44	117.96	110.62
1	9N	83	LEU	O-C-N	6.44	131.28	122.46
1	9Q	24	VAL	CA-C-N	6.44	129.55	120.28
1	9Q	24	VAL	C-N-CA	6.44	129.55	120.28
1	9S	143	ARG	NE-CZ-NH2	-6.44	113.41	119.20
1	9Z	212	GLU	N-CA-C	6.44	118.83	111.11
1	a0	160	PRO	CA-C-N	6.44	133.84	121.54
1	a0	160	PRO	C-N-CA	6.44	133.84	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ah	168	PHE	CB-CA-C	6.44	121.79	110.85
1	aj	226	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	12	105	ALA	N-CA-C	6.44	118.30	111.28
1	aD	173	ARG	NH1-CZ-NH2	-6.44	110.93	119.30
1	b0	83	LEU	N-CA-C	6.44	118.09	111.14
1	bc	194	ALA	CA-C-N	6.44	129.34	120.39
1	bc	194	ALA	C-N-CA	6.44	129.34	120.39
1	bq	221	VAL	O-C-N	-6.44	114.52	122.57
1	bR	183	ASN	N-CA-C	6.44	118.30	111.28
1	c5	114	GLN	OE1-CD-NE2	-6.44	116.16	122.60
1	c6	170	LYS	CA-C-O	-6.44	113.59	120.42
1	cr	145	TYR	CA-C-O	6.44	127.09	119.56
1	cB	57	ASN	CA-CB-CG	-6.44	106.16	112.60
1	cJ	12	HIS	N-CA-C	6.44	120.37	110.20
1	1h	92	GLU	N-CA-C	6.44	124.04	109.81
1	d2	87	HIS	CA-CB-CG	-6.44	107.36	113.80
1	dn	44	SER	O-C-N	-6.44	114.34	122.26
1	dR	162	ARG	O-C-N	-6.44	115.30	122.12
1	dV	173	ARG	N-CA-C	6.44	119.12	111.33
1	ec	3	VAL	O-C-N	-6.44	115.29	122.05
1	ed	210	THR	CA-C-O	6.44	128.32	120.60
1	1q	23	TRP	N-CA-C	6.44	117.96	111.07
1	ew	109	SER	N-CA-CB	6.44	120.69	110.65
1	eG	174	ALA	N-CA-CB	-6.44	100.67	110.01
1	f1	30	LYS	O-C-N	-6.44	114.43	122.35
1	fd	212	GLU	CA-C-N	6.44	128.91	120.28
1	fd	212	GLU	C-N-CA	6.44	128.91	120.28
1	l	92	GLU	O-C-N	-6.44	115.85	121.71
1	A	43	LEU	N-CA-C	6.44	118.30	111.28
1	L	205	LEU	O-C-N	-6.44	115.01	122.93
1	9	86	VAL	CA-C-N	6.44	132.92	122.81
1	9	86	VAL	C-N-CA	6.44	132.92	122.81
1	gK	188	THR	CA-C-N	6.44	129.20	120.38
1	gK	188	THR	C-N-CA	6.44	129.20	120.38
1	1F	19	THR	CA-C-N	6.44	128.81	120.44
1	1F	19	THR	C-N-CA	6.44	128.81	120.44
1	1F	87	HIS	CA-CB-CG	6.44	120.24	113.80
1	gR	177	ALA	CA-C-O	6.44	127.06	120.24
1	hb	159	GLU	CA-C-N	6.44	127.89	119.84
1	hb	159	GLU	C-N-CA	6.44	127.89	119.84
1	hA	3	VAL	N-CA-C	6.44	116.75	108.12
1	1L	192	GLN	N-CA-C	6.44	118.30	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hT	147	PRO	N-CA-C	6.44	121.95	114.03
1	iD	167	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	l8	98	GLU	CA-C-N	6.44	126.39	119.76
1	l8	98	GLU	C-N-CA	6.44	126.39	119.76
1	3g	141	ILE	N-CA-CB	-6.44	101.79	110.54
1	3H	3	VAL	N-CA-C	6.44	117.62	108.93
1	47	226	HIS	CG-CD2-NE2	6.44	113.64	107.20
1	5w	204	ALA	N-CA-C	6.44	118.38	111.36
1	5D	186	THR	O-C-N	-6.44	115.44	122.07
1	6i	80	TRP	CA-C-N	6.44	129.55	120.28
1	6i	80	TRP	C-N-CA	6.44	129.55	120.28
1	6r	141	ILE	N-CA-C	6.44	116.60	110.42
1	6z	26	VAL	CB-CA-C	-6.44	103.34	112.22
1	7n	67	GLN	N-CA-C	6.44	119.11	111.71
1	8b	115	ILE	CA-C-N	6.44	127.24	120.03
1	8b	115	ILE	C-N-CA	6.44	127.24	120.03
1	8A	185	MET	N-CA-C	6.44	119.12	111.33
1	8T	126	VAL	N-CA-C	6.44	117.12	110.36
1	8U	137	GLY	CA-C-N	6.44	128.91	120.28
1	8U	137	GLY	C-N-CA	6.44	128.91	120.28
1	9M	188	THR	O-C-N	-6.44	114.03	122.59
1	aH	120	HIS	CA-CB-CG	6.44	120.24	113.80
1	aX	42	ALA	O-C-N	-6.44	115.30	122.12
1	b1	144	MET	CG-SD-CE	-6.44	86.74	100.90
1	be	130	TYR	CA-C-N	6.44	128.81	120.44
1	be	130	TYR	C-N-CA	6.44	128.81	120.44
1	bI	40	PHE	CA-CB-CG	-6.44	107.36	113.80
1	bT	92	GLU	N-CA-C	6.44	119.47	110.20
1	cd	214	MET	N-CA-C	6.44	119.12	111.33
1	1m	97	ARG	NE-CZ-NH1	6.44	127.94	121.50
1	eu	107	THR	N-CA-C	6.44	117.96	111.07
1	eS	50	GLN	N-CA-C	6.44	118.30	111.28
1	1w	74	ASN	N-CA-CB	-6.44	100.66	110.12
1	fl	104	ILE	O-C-N	-6.44	115.37	121.87
1	fI	168	PHE	O-C-N	-6.44	115.44	122.07
1	A	56	LEU	N-CA-C	6.44	118.83	111.11
1	R	162	ARG	NE-CZ-NH2	6.44	124.99	119.20
1	g8	161	PHE	CA-C-N	6.43	128.90	120.28
1	g8	161	PHE	C-N-CA	6.43	128.90	120.28
1	gu	162	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	gu	174	ALA	N-CA-C	6.43	118.30	111.28
1	gA	117	TRP	N-CA-C	6.43	118.38	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gG	71	GLU	CA-C-N	6.43	128.90	120.28
1	gG	71	GLU	C-N-CA	6.43	128.90	120.28
1	h9	201	ILE	N-CA-C	6.43	117.22	110.72
1	1I	11	VAL	CA-C-O	6.43	128.82	120.78
1	hk	215	MET	CA-C-O	6.43	127.37	119.97
1	hm	13	GLN	CA-C-O	-6.43	113.81	120.89
1	hv	19	THR	CA-C-N	6.43	128.80	120.44
1	hv	19	THR	C-N-CA	6.43	128.80	120.44
1	hz	172	LEU	N-CA-C	6.43	117.95	111.07
1	hD	129	ILE	CA-C-N	6.43	128.90	120.28
1	hD	129	ILE	C-N-CA	6.43	128.90	120.28
1	hY	30	LYS	CA-C-O	6.43	126.35	119.34
1	i5	168	PHE	N-CA-C	6.43	118.87	111.02
1	if	189	LEU	CA-C-N	6.43	129.23	120.54
1	if	189	LEU	C-N-CA	6.43	129.23	120.54
1	ih	183	ASN	CA-CB-CG	-6.43	106.17	112.60
1	ij	73	ILE	N-CA-C	6.43	116.60	110.42
1	iE	162	ARG	N-CA-C	6.43	119.11	111.33
1	j2	72	THR	CA-C-O	-6.43	113.68	120.63
1	1U	135	ILE	O-C-N	-6.43	115.63	121.87
1	jr	102	SER	N-CA-CB	6.43	119.53	109.94
1	jR	216	THR	CA-C-N	6.43	132.40	120.95
1	jR	216	THR	C-N-CA	6.43	132.40	120.95
1	22	33	SER	CA-C-O	-6.43	114.70	120.56
1	kx	187	GLU	N-CA-C	6.43	117.98	110.97
1	23	72	THR	CA-C-N	6.43	128.90	120.60
1	23	72	THR	C-N-CA	6.43	128.90	120.60
1	23	111	LEU	N-CA-CB	-6.43	100.66	110.12
1	kP	107	THR	CA-C-O	6.43	127.58	120.82
1	kX	156	GLY	CA-C-N	6.43	126.01	119.19
1	kX	156	GLY	C-N-CA	6.43	126.01	119.19
1	lk	205	LEU	N-CA-C	-6.43	105.06	113.17
1	2b	222	GLY	CA-C-O	-6.43	117.82	122.45
1	2w	18	ARG	CA-C-O	6.43	127.33	120.70
1	2C	89	GLY	CA-C-N	6.43	127.88	119.84
1	2C	89	GLY	C-N-CA	6.43	127.88	119.84
1	2D	54	THR	N-CA-C	6.43	118.30	111.28
1	2S	99	PRO	N-CA-C	6.43	120.52	110.80
1	3j	61	GLY	N-CA-C	6.43	121.70	112.82
1	3l	35	GLU	N-CA-C	6.43	119.11	111.71
1	3n	37	ILE	N-CA-CB	-6.43	106.45	110.50
1	3B	15	ILE	CA-C-N	6.43	129.40	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3B	15	ILE	C-N-CA	6.43	129.40	120.65
1	44	198	CYS	CA-C-N	6.43	129.20	120.38
1	44	198	CYS	C-N-CA	6.43	129.20	120.38
1	4v	192	GLN	N-CA-C	6.43	120.39	112.54
1	4V	181	VAL	CA-C-O	-6.43	114.26	120.95
1	50	139	ASN	CA-C-O	6.43	127.37	120.55
1	53	70	LYS	N-CA-C	6.43	118.29	111.28
1	55	205	LEU	N-CA-C	6.43	119.11	111.71
1	5c	126	VAL	CB-CA-C	6.43	120.47	112.04
1	5l	125	PRO	CA-C-N	6.43	129.28	120.46
1	5l	125	PRO	C-N-CA	6.43	129.28	120.46
1	5n	51	ASP	CA-C-N	6.43	128.81	120.44
1	5n	51	ASP	C-N-CA	6.43	128.81	120.44
1	5C	205	LEU	N-CA-C	-6.43	103.87	112.94
1	6a	7	GLN	CA-C-O	-6.43	114.36	121.89
1	6o	154	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	6r	165	VAL	O-C-N	-6.43	115.63	121.87
1	6D	59	VAL	CA-C-N	6.43	128.45	120.34
1	6D	59	VAL	C-N-CA	6.43	128.45	120.34
1	6X	89	GLY	O-C-N	-6.43	116.63	122.42
1	6Z	59	VAL	O-C-N	-6.43	116.55	122.79
1	7g	205	LEU	N-CA-C	-6.43	104.35	111.36
1	7q	135	ILE	CA-C-N	6.43	130.47	120.82
1	7q	135	ILE	C-N-CA	6.43	130.47	120.82
1	7F	146	SER	O-C-N	6.43	127.93	121.30
1	84	203	LYS	N-CA-C	6.43	118.29	111.28
1	8n	89	GLY	O-C-N	-6.43	115.33	121.77
1	8n	183	ASN	CA-CB-CG	-6.43	106.17	112.60
1	8N	28	GLU	N-CA-CB	6.43	119.60	109.82
1	8O	12	HIS	N-CA-C	6.43	119.10	110.35
1	90	93	PRO	N-CA-CB	6.43	108.91	103.25
1	9S	60	GLY	CA-C-N	6.43	130.04	122.19
1	9S	60	GLY	C-N-CA	6.43	130.04	122.19
1	9S	138	LEU	O-C-N	-6.43	114.81	122.15
1	9T	211	LEU	N-CA-C	6.43	119.11	111.33
1	9Z	94	GLY	N-CA-C	6.43	122.99	111.02
1	a5	181	VAL	CA-C-O	6.43	128.19	121.05
1	ad	163	ASP	N-CA-C	-6.43	105.56	113.41
1	aI	4	GLN	N-CA-CB	6.43	121.36	110.49
1	aI	179	GLN	N-CA-C	6.43	118.29	111.28
1	aY	230	VAL	N-CA-C	6.43	118.06	109.37
1	b2	168	PHE	CA-CB-CG	-6.43	107.37	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bK	37	ILE	O-C-N	-6.43	116.30	120.42
1	bO	85	PRO	N-CA-CB	6.43	109.04	103.31
1	c2	115	ILE	CA-C-N	6.43	127.08	119.94
1	c2	115	ILE	C-N-CA	6.43	127.08	119.94
1	1d	143	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	cp	121	ASN	CA-C-O	-6.43	114.57	119.59
1	1e	132	ARG	NE-CZ-NH1	-6.43	115.06	121.50
1	df	73	ILE	CB-CA-C	6.43	121.10	112.22
1	dp	162	ARG	N-CA-C	6.43	118.29	111.28
1	dE	165	VAL	O-C-N	-6.43	115.63	121.87
1	dI	99	PRO	N-CA-CB	6.43	107.54	103.23
1	e7	15	ILE	N-CA-CB	6.43	118.22	110.31
1	e9	131	LYS	CA-C-O	6.43	127.58	120.63
1	eh	98	GLU	CA-C-O	-6.43	114.56	119.32
1	es	58	THR	N-CA-CB	6.43	119.40	110.07
1	eX	210	THR	O-C-N	-6.43	114.89	122.81
1	fl	18	ARG	O-C-N	6.43	129.49	122.15
1	fw	184	TRP	N-CA-C	6.43	118.29	111.28
1	fy	92	GLU	N-CA-C	6.43	117.81	109.64
1	fX	118	MET	N-CA-CB	-6.43	100.36	110.46
1	g5	59	VAL	N-CA-CB	-6.43	101.56	110.05
1	d	15	ILE	CA-C-N	6.43	129.29	120.67
1	d	15	ILE	C-N-CA	6.43	129.29	120.67
1	e	72	THR	CA-CB-OG1	6.43	119.25	109.60
1	h	72	THR	CA-C-N	6.43	128.67	120.56
1	h	72	THR	C-N-CA	6.43	128.67	120.56
1	j	202	LEU	CA-C-O	6.43	127.37	119.97
1	1	229	ARG	NH1-CZ-NH2	-6.43	110.94	119.30
1	2	18	ARG	N-CA-C	-6.43	104.19	111.07
1	B	71	GLU	CA-C-N	6.43	129.23	120.54
1	B	71	GLU	C-N-CA	6.43	129.23	120.54
1	3	209	ALA	O-C-N	-6.43	115.42	123.01
1	ga	190	LEU	O-C-N	-6.43	115.30	122.12
1	gw	169	TYR	CB-CG-CD1	-6.43	111.15	120.80
1	1E	159	GLU	CA-C-N	6.43	127.88	119.84
1	1E	159	GLU	C-N-CA	6.43	127.88	119.84
1	h9	173	ARG	NE-CZ-NH1	-6.43	115.07	121.50
1	hl	176	GLN	OE1-CD-NE2	6.43	129.03	122.60
1	hM	160	PRO	CA-C-N	6.43	129.19	120.38
1	hM	160	PRO	C-N-CA	6.43	129.19	120.38
1	1Q	186	THR	N-CA-C	6.43	118.37	111.36
1	iQ	126	VAL	CA-C-N	6.43	128.39	120.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	126	VAL	C-N-CA	6.43	128.39	120.22
1	iT	63	GLN	CA-C-N	6.43	129.42	120.29
1	iT	63	GLN	C-N-CA	6.43	129.42	120.29
1	j2	229	ARG	CA-C-N	6.43	130.14	120.75
1	j2	229	ARG	C-N-CA	6.43	130.14	120.75
1	j5	91	ILE	CA-C-O	6.43	125.38	119.20
1	je	120	HIS	CG-CD2-NE2	6.43	113.63	107.20
1	jy	113	GLU	CB-CG-CD	6.43	123.53	112.60
1	jy	144	MET	N-CA-C	6.43	117.95	111.07
1	jz	101	GLY	N-CA-C	6.43	121.00	112.77
1	k4	75	GLU	CB-CA-C	6.43	120.98	110.88
1	k6	121	ASN	O-C-N	-6.43	113.19	121.10
1	l2	2	ILE	N-CA-CB	6.43	117.54	110.53
1	27	92	GLU	CA-C-N	6.43	126.46	119.90
1	27	92	GLU	C-N-CA	6.43	126.46	119.90
1	lp	52	LEU	O-C-N	-6.43	114.69	122.22
1	lt	142	VAL	CA-C-N	6.43	128.80	120.44
1	lt	142	VAL	C-N-CA	6.43	128.80	120.44
1	lD	119	THR	O-C-N	-6.43	114.41	122.19
1	lG	167	ARG	CA-C-N	6.43	129.22	120.54
1	lG	167	ARG	C-N-CA	6.43	129.22	120.54
1	2f	148	THR	N-CA-C	-6.43	99.55	109.52
1	2X	126	VAL	N-CA-C	6.43	116.59	110.42
1	2X	226	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	3t	91	ILE	CA-C-N	6.43	129.33	120.39
1	3t	91	ILE	C-N-CA	6.43	129.33	120.39
1	3w	100	ARG	NH1-CZ-NH2	-6.43	110.94	119.30
1	3L	110	THR	O-C-N	-6.43	115.76	123.03
1	45	42	ALA	N-CA-C	6.43	117.95	111.07
1	47	212	GLU	O-C-N	-6.43	115.44	122.07
1	48	185	MET	CA-C-N	6.43	128.90	120.28
1	48	185	MET	C-N-CA	6.43	128.90	120.28
1	4b	203	LYS	CA-C-O	6.43	127.37	120.55
1	4q	36	VAL	CA-CB-CG2	-6.43	99.46	110.40
1	4y	182	LYS	N-CA-C	6.43	119.28	111.82
1	4E	126	VAL	N-CA-C	6.43	117.18	110.62
1	4E	182	LYS	N-CA-C	6.43	117.95	111.07
1	4N	51	ASP	CB-CA-C	-6.43	100.11	110.79
1	4Z	53	ASN	N-CA-C	6.43	118.29	111.28
1	51	20	LEU	CA-C-N	6.43	129.14	120.65
1	51	20	LEU	C-N-CA	6.43	129.14	120.65
1	5e	11	VAL	O-C-N	-6.43	115.67	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	109	SER	O-C-N	-6.43	115.81	123.27
1	5m	161	PHE	CA-C-N	6.43	129.19	120.38
1	5m	161	PHE	C-N-CA	6.43	129.19	120.38
1	5V	120	HIS	O-C-N	-6.43	114.80	122.65
1	65	214	MET	CA-C-O	6.43	127.37	120.55
1	6w	181	VAL	N-CA-CB	6.43	118.08	110.55
1	6B	88	ALA	CA-C-N	6.43	131.97	121.87
1	6B	88	ALA	C-N-CA	6.43	131.97	121.87
1	6B	173	ARG	N-CA-C	-6.43	104.12	112.23
1	7v	20	LEU	O-C-N	-6.43	115.30	122.12
1	7A	103	ASP	N-CA-C	6.43	118.29	111.28
1	7X	214	MET	O-C-N	-6.43	115.44	122.07
1	8x	34	PRO	CA-C-N	6.43	129.54	120.28
1	8x	34	PRO	C-N-CA	6.43	129.54	120.28
1	97	168	PHE	CA-CB-CG	6.43	120.23	113.80
1	9R	180	GLU	O-C-N	-6.43	115.44	122.07
1	ah	11	VAL	N-CA-C	-6.43	99.11	108.89
1	b1	6	LEU	O-C-N	-6.43	116.54	123.42
1	bz	167	ARG	O-C-N	-6.43	113.58	122.46
1	bU	56	LEU	N-CA-C	6.43	118.29	111.28
1	c2	172	LEU	N-CA-C	6.43	120.98	113.20
1	c5	52	LEU	O-C-N	-6.43	115.44	122.07
1	cr	188	THR	N-CA-CB	6.43	121.36	110.49
1	cF	53	ASN	CA-CB-CG	-6.43	106.17	112.60
1	cH	216	THR	CA-C-O	6.43	127.29	119.31
1	dc	200	THR	N-CA-C	6.43	117.95	111.07
1	dt	104	ILE	O-C-N	-6.43	115.63	121.87
1	dF	70	LYS	N-CA-CB	6.43	119.58	110.12
1	dK	140	LYS	N-CA-C	6.43	118.83	111.11
1	dR	36	VAL	CA-C-N	6.43	124.29	120.24
1	dR	36	VAL	C-N-CA	6.43	124.29	120.24
1	dT	32	PHE	CA-CB-CG	6.43	120.23	113.80
1	er	226	HIS	N-CA-C	6.43	120.27	111.39
1	ey	221	VAL	N-CA-C	6.43	121.15	111.89
1	1s	195	ASN	CA-CB-CG	6.43	119.03	112.60
1	eV	144	MET	N-CA-C	-6.43	104.74	112.59
1	fh	14	ALA	CA-C-N	6.43	130.81	121.80
1	fh	14	ALA	C-N-CA	6.43	130.81	121.80
1	fE	22	ALA	CA-C-N	6.43	129.73	120.79
1	fE	22	ALA	C-N-CA	6.43	129.73	120.79
1	fN	62	HIS	ND1-CG-CD2	6.43	112.53	106.10
1	fO	229	ARG	NH1-CZ-NH2	-6.43	110.94	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fT	28	GLU	O-C-N	-6.43	115.40	122.09
1	g0	99	PRO	N-CA-CB	-6.43	97.35	103.33
1	A	154	ARG	CB-CA-C	6.43	121.58	110.45
1	S	81	ASP	CA-CB-CG	-6.43	106.17	112.60
1	hs	54	THR	CA-CB-OG1	6.43	119.25	109.60
1	hR	191	VAL	CA-C-O	6.43	127.67	120.85
1	iI	79	GLU	CA-C-N	6.43	128.90	120.28
1	iI	79	GLU	C-N-CA	6.43	128.90	120.28
1	jf	84	HIS	N-CA-C	-6.43	100.61	110.32
1	jP	140	LYS	O-C-N	6.43	128.94	122.12
1	21	183	ASN	O-C-N	-6.43	115.30	122.12
1	ko	124	ILE	N-CA-C	6.43	114.97	107.77
1	kI	171	THR	CA-C-N	6.43	128.80	120.44
1	kI	171	THR	C-N-CA	6.43	128.80	120.44
1	lu	102	SER	N-CA-C	6.43	117.95	111.07
1	lv	116	GLY	O-C-N	-6.43	116.02	122.19
1	lD	13	GLN	CA-C-N	6.43	130.46	120.75
1	lD	13	GLN	C-N-CA	6.43	130.46	120.75
1	lF	64	ALA	CA-C-N	6.43	128.90	120.28
1	lF	64	ALA	C-N-CA	6.43	128.90	120.28
1	2n	82	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	3d	120	HIS	CB-CG-CD2	-6.43	122.84	131.20
1	3i	21	ASN	CA-CB-CG	6.43	119.03	112.60
1	3j	183	ASN	OD1-CG-ND2	-6.43	116.17	122.60
1	3H	73	ILE	N-CA-C	6.43	117.11	110.36
1	3L	19	THR	N-CA-C	6.43	117.95	111.07
1	4m	144	MET	CA-C-O	6.43	127.37	120.55
1	4C	96	MET	O-C-N	-6.43	116.06	123.33
1	4V	226	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	5c	200	THR	N-CA-C	6.43	119.11	111.33
1	63	18	ARG	CA-C-N	6.43	128.80	120.44
1	63	18	ARG	C-N-CA	6.43	128.80	120.44
1	6t	26	VAL	CA-C-N	6.43	128.66	120.56
1	6t	26	VAL	C-N-CA	6.43	128.66	120.56
1	6x	168	PHE	CA-C-N	6.43	129.54	120.28
1	6x	168	PHE	C-N-CA	6.43	129.54	120.28
1	7o	162	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	7r	159	GLU	CA-C-O	-6.43	114.79	120.19
1	82	71	GLU	N-CA-C	6.43	118.29	111.28
1	88	196	PRO	CA-C-N	6.43	128.90	120.28
1	88	196	PRO	C-N-CA	6.43	128.90	120.28
1	8K	48	THR	O-C-N	-6.43	114.78	121.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8P	168	PHE	CA-CB-CG	6.43	120.23	113.80
1	9d	159	GLU	CA-C-N	6.43	126.45	119.89
1	9d	159	GLU	C-N-CA	6.43	126.45	119.89
1	9e	50	GLN	CB-CG-CD	6.43	123.53	112.60
1	at	200	THR	CA-CB-OG1	-6.43	99.95	109.60
1	az	70	LYS	N-CA-CB	6.43	119.57	110.12
1	bg	161	PHE	CA-CB-CG	6.43	120.23	113.80
1	br	119	THR	O-C-N	-6.43	114.62	122.34
1	bs	218	CYS	CA-C-N	6.43	128.90	120.28
1	bs	218	CYS	C-N-CA	6.43	128.90	120.28
1	1a	97	ARG	O-C-N	-6.43	114.96	122.87
1	cg	64	ALA	O-C-N	-6.43	114.82	122.15
1	cQ	105	ALA	CA-C-N	6.43	132.43	122.20
1	cQ	105	ALA	C-N-CA	6.43	132.43	122.20
1	db	175	GLU	CA-C-N	6.43	129.97	120.90
1	db	175	GLU	C-N-CA	6.43	129.97	120.90
1	dd	139	ASN	CA-C-N	6.43	128.90	120.28
1	dd	139	ASN	C-N-CA	6.43	128.90	120.28
1	f0	40	PHE	O-C-N	-6.43	115.45	122.07
1	ft	124	ILE	O-C-N	-6.43	113.77	121.10
1	ft	137	GLY	CA-C-O	-6.43	114.05	121.00
1	fI	85	PRO	O-C-N	-6.43	115.97	122.98
1	fI	92	GLU	O-C-N	-6.43	113.92	121.32
1	fM	139	ASN	N-CA-C	-6.43	104.35	111.36
1	fU	132	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	x	226	HIS	N-CA-C	6.43	120.42	111.74
1	5	98	GLU	CA-C-O	-6.43	113.37	119.80
1	gd	13	GLN	OE1-CD-NE2	6.43	129.03	122.60
1	gs	181	VAL	CA-C-N	6.43	130.08	120.31
1	gs	181	VAL	C-N-CA	6.43	130.08	120.31
1	gw	119	THR	N-CA-CB	6.43	119.79	110.47
1	gL	100	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	gR	74	ASN	CA-C-N	6.43	128.80	120.44
1	gR	74	ASN	C-N-CA	6.43	128.80	120.44
1	h2	166	ASP	N-CA-C	6.43	119.98	111.75
1	hs	215	MET	N-CA-C	6.43	119.28	111.82
1	hJ	143	ARG	CD-NE-CZ	6.43	133.40	124.40
1	hN	124	ILE	CA-C-O	-6.43	115.36	119.15
1	hT	141	ILE	N-CA-C	6.43	116.59	110.42
1	hT	156	GLY	O-C-N	-6.43	114.70	122.03
1	i8	127	GLY	CA-C-O	6.43	127.48	120.66
1	ij	168	PHE	CA-CB-CG	6.43	120.23	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iq	124	ILE	O-C-N	-6.43	115.76	121.61
1	iu	160	PRO	O-C-N	-6.43	115.25	123.03
1	iB	64	ALA	CA-C-N	6.43	128.90	120.28
1	iB	64	ALA	C-N-CA	6.43	128.90	120.28
1	iB	107	THR	OG1-CB-CG2	-6.43	96.44	109.30
1	j1	100	ARG	N-CA-C	-6.43	101.48	110.35
1	j2	170	LYS	O-C-N	6.43	128.69	122.07
1	jE	125	PRO	N-CA-CB	-6.43	98.04	102.73
1	jJ	85	PRO	N-CA-CB	-6.43	96.50	103.25
1	kq	64	ALA	N-CA-C	6.43	117.95	111.07
1	kW	54	THR	O-C-N	-6.43	115.31	122.12
1	lh	16	SER	N-CA-C	6.43	118.95	109.50
1	lu	168	PHE	CA-C-N	6.43	128.90	120.28
1	lu	168	PHE	C-N-CA	6.43	128.90	120.28
1	2h	229	ARG	NE-CZ-NH2	6.43	124.99	119.20
1	3t	187	GLU	N-CA-C	6.43	118.08	111.14
1	3H	130	TYR	CA-C-N	6.43	129.19	120.38
1	3H	130	TYR	C-N-CA	6.43	129.19	120.38
1	3O	75	GLU	CA-C-N	6.43	128.90	120.28
1	3O	75	GLU	C-N-CA	6.43	128.90	120.28
1	3O	228	ALA	CA-C-O	6.43	128.01	121.07
1	47	21	ASN	CA-C-N	6.43	128.90	120.28
1	47	21	ASN	C-N-CA	6.43	128.90	120.28
1	48	126	VAL	N-CA-C	6.43	120.04	111.17
1	4b	59	VAL	N-CA-CB	6.43	118.85	111.39
1	4c	66	MET	N-CA-C	6.43	117.95	111.07
1	4C	8	GLY	O-C-N	-6.43	114.34	122.70
1	5r	173	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	5D	64	ALA	CA-C-O	6.43	127.38	120.24
1	5N	204	ALA	CA-C-N	6.43	128.90	120.28
1	5N	204	ALA	C-N-CA	6.43	128.90	120.28
1	5O	112	GLN	OE1-CD-NE2	-6.43	116.17	122.60
1	5S	12	HIS	CG-CD2-NE2	6.43	113.63	107.20
1	6b	100	ARG	CA-C-N	6.43	127.23	120.03
1	6b	100	ARG	C-N-CA	6.43	127.23	120.03
1	6b	149	SER	N-CA-C	6.43	119.98	109.76
1	6u	83	LEU	N-CA-C	6.43	118.37	111.36
1	6z	19	THR	CA-C-N	6.43	128.90	120.28
1	6z	19	THR	C-N-CA	6.43	128.90	120.28
1	6B	58	THR	N-CA-C	6.43	118.29	111.28
1	6C	74	ASN	O-C-N	-6.43	115.31	122.12
1	6I	161	PHE	N-CA-C	6.43	118.29	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	121	ASN	OD1-CG-ND2	-6.43	116.17	122.60
1	7z	139	ASN	CA-C-N	6.43	128.80	120.44
1	7z	139	ASN	C-N-CA	6.43	128.80	120.44
1	7N	26	VAL	N-CA-CB	6.43	118.07	110.55
1	8c	193	ASN	CA-CB-CG	-6.43	106.17	112.60
1	8I	53	ASN	CA-CB-CG	-6.43	106.17	112.60
1	8Z	220	GLY	CA-C-N	6.43	130.29	120.13
1	8Z	220	GLY	C-N-CA	6.43	130.29	120.13
1	98	171	THR	CA-C-O	6.43	127.36	120.55
1	9j	218	CYS	N-CA-CB	6.43	121.36	110.49
1	9o	127	GLY	CA-C-N	6.43	128.90	120.28
1	9o	127	GLY	C-N-CA	6.43	128.90	120.28
1	10	60	GLY	CA-C-N	6.43	127.80	120.53
1	10	60	GLY	C-N-CA	6.43	127.80	120.53
1	ab	211	LEU	CA-C-N	6.43	129.22	120.54
1	ab	211	LEU	C-N-CA	6.43	129.22	120.54
1	ak	79	GLU	CA-C-N	6.43	128.90	120.28
1	ak	79	GLU	C-N-CA	6.43	128.90	120.28
1	al	27	VAL	CA-C-N	6.43	129.22	120.54
1	al	27	VAL	C-N-CA	6.43	129.22	120.54
1	aw	170	LYS	CA-C-O	6.43	127.23	120.42
1	aF	142	VAL	N-CA-C	6.43	117.95	110.62
1	aR	195	ASN	CA-C-N	6.43	127.88	119.84
1	aR	195	ASN	C-N-CA	6.43	127.88	119.84
1	b9	127	GLY	CA-C-N	6.43	128.90	120.28
1	b9	127	GLY	C-N-CA	6.43	128.90	120.28
1	bk	230	VAL	O-C-N	-6.43	114.53	122.57
1	bv	62	HIS	N-CA-CB	6.43	121.21	111.70
1	bG	182	LYS	CA-C-N	6.43	128.80	120.44
1	bG	182	LYS	C-N-CA	6.43	128.80	120.44
1	bH	195	ASN	CB-CA-C	6.43	119.51	109.42
1	c2	226	HIS	CB-CG-CD2	-6.43	122.84	131.20
1	c7	167	ARG	CA-C-N	6.43	128.80	120.44
1	c7	167	ARG	C-N-CA	6.43	128.80	120.44
1	cn	180	GLU	CA-C-N	6.43	129.27	120.46
1	cn	180	GLU	C-N-CA	6.43	129.27	120.46
1	cy	122	PRO	CA-C-N	6.43	126.46	119.90
1	cy	122	PRO	C-N-CA	6.43	126.46	119.90
1	cB	54	THR	CA-CB-CG2	6.43	121.43	110.50
1	cO	99	PRO	N-CD-CG	6.43	112.84	103.20
1	cQ	127	GLY	CA-C-N	6.43	128.89	120.28
1	cQ	127	GLY	C-N-CA	6.43	128.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	130	TYR	CG-CD2-CE2	6.43	130.84	121.20
1	d1	159	GLU	CA-C-O	-6.43	113.37	119.80
1	dx	168	PHE	O-C-N	-6.43	115.45	122.07
1	dy	208	ALA	CA-C-N	6.43	129.84	120.71
1	dy	208	ALA	C-N-CA	6.43	129.84	120.71
1	dD	139	ASN	CA-CB-CG	6.43	119.03	112.60
1	es	109	SER	O-C-N	-6.43	115.52	123.36
1	eU	53	ASN	N-CA-CB	6.43	119.57	110.12
1	f2	74	ASN	CA-CB-CG	-6.43	106.17	112.60
1	fh	161	PHE	CA-C-N	6.43	128.90	120.28
1	fh	161	PHE	C-N-CA	6.43	128.90	120.28
1	fk	28	GLU	N-CA-C	6.43	117.95	111.07
1	fy	22	ALA	CA-C-N	6.43	129.22	120.54
1	fy	22	ALA	C-N-CA	6.43	129.22	120.54
1	fQ	117	TRP	N-CA-C	6.43	117.95	111.07
1	fU	117	TRP	CB-CG-CD2	6.43	135.80	126.80
1	f	82	ARG	NE-CZ-NH2	-6.43	113.41	119.20
1	m	200	THR	CA-C-O	6.43	127.57	120.82
1	o	23	TRP	CD2-CE2-CZ2	-6.43	115.97	122.40
1	8	120	HIS	N-CA-CB	6.43	119.55	110.36
1	gg	20	LEU	CA-C-N	6.43	129.22	120.54
1	gg	20	LEU	C-N-CA	6.43	129.22	120.54
1	gk	154	ARG	NE-CZ-NH2	-6.43	113.42	119.20
1	gm	177	ALA	CA-C-N	6.43	130.27	120.82
1	gm	177	ALA	C-N-CA	6.43	130.27	120.82
1	gx	136	LEU	O-C-N	-6.43	115.31	122.12
1	hh	83	LEU	O-C-N	-6.43	114.82	122.15
1	hl	148	THR	CA-CB-OG1	6.43	119.24	109.60
1	hx	149	SER	CA-C-N	6.43	131.31	120.64
1	hx	149	SER	C-N-CA	6.43	131.31	120.64
1	hD	40	PHE	CA-C-O	-6.43	114.07	120.82
1	ib	50	GLN	OE1-CD-NE2	-6.43	116.17	122.60
1	iz	116	GLY	CA-C-O	6.43	128.10	120.90
1	jd	201	ILE	N-CA-C	-6.43	103.99	111.00
1	k1	85	PRO	N-CA-CB	6.43	107.42	102.73
1	ka	56	LEU	O-C-N	-6.43	114.82	122.15
1	ly	76	GLU	O-C-N	-6.43	115.45	122.07
1	lG	65	ALA	CA-C-O	6.43	127.57	120.82
1	3f	219	GLN	OE1-CD-NE2	-6.43	116.17	122.60
1	3r	52	LEU	N-CA-C	6.43	117.95	111.07
1	3N	220	GLY	N-CA-C	-6.43	103.94	112.81
1	3T	199	LYS	CA-C-O	-6.43	113.74	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	162	ARG	N-CA-C	6.43	118.82	111.11
1	4B	145	TYR	O-C-N	-6.43	113.45	122.06
1	4D	133	TRP	O-C-N	-6.43	115.31	122.12
1	4Y	80	TRP	O-C-N	-6.43	115.31	122.12
1	6J	108	THR	CA-C-O	6.43	125.59	118.52
1	6Y	108	THR	CA-C-O	6.43	126.29	119.03
1	7d	211	LEU	N-CA-CB	6.43	119.57	110.12
1	8n	68	MET	N-CA-C	6.43	117.95	111.07
1	8y	172	LEU	N-CA-C	6.43	118.29	111.28
1	8B	77	ALA	CA-C-O	6.43	127.23	120.42
1	8I	173	ARG	NH1-CZ-NH2	-6.43	110.94	119.30
1	8K	171	THR	N-CA-C	-6.43	104.35	111.36
1	8O	183	ASN	CA-CB-CG	-6.43	106.17	112.60
1	9i	41	SER	CA-C-O	6.43	127.36	120.55
1	9C	77	ALA	N-CA-CB	-6.43	100.32	110.28
1	9N	153	ILE	CA-C-O	6.43	127.99	119.70
1	aa	197	ASP	CA-C-N	6.43	129.19	120.38
1	aa	197	ASP	C-N-CA	6.43	129.19	120.38
1	aY	52	LEU	N-CA-C	6.43	118.29	111.28
1	bk	189	LEU	CB-CA-C	-6.43	100.12	110.79
1	bq	141	ILE	N-CA-CB	6.43	119.28	110.54
1	bv	168	PHE	O-C-N	-6.43	115.45	122.07
1	cj	190	LEU	CA-C-O	-6.43	113.61	120.42
1	cn	44	SER	CA-C-N	6.43	128.89	120.28
1	cn	44	SER	C-N-CA	6.43	128.89	120.28
1	cq	118	MET	N-CA-C	6.43	120.33	112.23
1	cx	19	THR	N-CA-C	-6.43	104.27	111.28
1	dg	191	VAL	CB-CA-C	-6.43	103.60	112.02
1	dw	80	TRP	CB-CA-C	6.43	121.14	110.92
1	ea	145	TYR	N-CA-C	-6.43	103.88	112.94
1	ee	100	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	g3	8	GLY	CA-C-N	6.43	133.82	121.54
1	g3	8	GLY	C-N-CA	6.43	133.82	121.54
1	j	2	ILE	CA-C-N	-6.43	113.11	122.69
1	j	2	ILE	C-N-CA	-6.43	113.11	122.69
1	n	86	VAL	N-CA-CB	6.43	117.73	110.72
1	7	121	ASN	CB-CA-C	6.43	118.74	110.13
1	1C	175	GLU	N-CA-CB	6.43	119.53	109.83
1	gn	177	ALA	O-C-N	-6.43	115.41	123.12
1	1D	145	TYR	O-C-N	-6.43	114.63	122.34
1	1E	89	GLY	N-CA-C	6.43	119.71	112.00
1	gD	183	ASN	CB-CA-C	6.43	121.46	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gG	87	HIS	ND1-CE1-NE2	6.43	114.83	108.40
1	gJ	60	GLY	CA-C-N	6.43	129.41	121.06
1	gJ	60	GLY	C-N-CA	6.43	129.41	121.06
1	gM	182	LYS	CA-C-N	6.43	128.89	120.28
1	gM	182	LYS	C-N-CA	6.43	128.89	120.28
1	gV	62	HIS	ND1-CE1-NE2	6.43	114.83	108.40
1	ho	199	LYS	O-C-N	-6.43	114.70	122.22
1	hr	125	PRO	N-CA-CB	-6.43	96.50	103.25
1	hx	95	GLN	CB-CG-CD	6.43	123.52	112.60
1	1L	202	LEU	N-CA-C	6.43	119.28	111.82
1	hQ	101	GLY	CA-C-N	6.43	128.89	120.28
1	hQ	101	GLY	C-N-CA	6.43	128.89	120.28
1	hR	221	VAL	CA-C-O	6.43	128.18	120.66
1	iY	120	HIS	CA-CB-CG	6.43	120.23	113.80
1	1V	27	VAL	N-CA-C	6.43	117.17	110.62
1	jX	199	LYS	N-CA-C	6.43	118.28	111.28
1	kt	48	THR	CA-C-N	6.43	127.87	119.84
1	kt	48	THR	C-N-CA	6.43	127.87	119.84
1	22	195	ASN	CA-CB-CG	6.43	119.03	112.60
1	kC	87	HIS	ND1-CE1-NE2	6.43	114.83	108.40
1	kL	165	VAL	CA-CB-CG1	6.43	121.33	110.40
1	lc	169	TYR	N-CA-CB	6.43	119.33	110.01
1	lB	164	TYR	N-CA-C	6.43	117.94	111.07
1	lM	129	ILE	N-CA-CB	6.43	117.64	110.51
1	lQ	123	PRO	N-CA-CB	6.43	108.91	103.25
1	2h	133	TRP	CA-C-N	6.43	128.66	120.56
1	2h	133	TRP	C-N-CA	6.43	128.66	120.56
1	2p	77	ALA	CA-C-N	6.43	128.89	120.28
1	2p	77	ALA	C-N-CA	6.43	128.89	120.28
1	2M	185	MET	O-C-N	-6.43	114.82	122.15
1	2P	229	ARG	N-CA-C	6.43	117.92	108.86
1	2Q	70	LYS	O-C-N	-6.43	115.31	122.12
1	2U	95	GLN	CA-C-N	6.43	131.95	122.82
1	2U	95	GLN	C-N-CA	6.43	131.95	122.82
1	35	151	LEU	N-CA-C	6.43	120.96	113.18
1	3e	94	GLY	N-CA-C	6.43	123.89	115.47
1	3i	162	ARG	CA-C-O	6.43	127.36	120.55
1	3m	223	GLY	CA-C-O	-6.43	112.33	121.52
1	3V	10	MET	O-C-N	-6.43	115.41	123.12
1	41	56	LEU	CA-C-O	6.43	127.36	120.55
1	41	87	HIS	ND1-CE1-NE2	6.43	114.83	108.40
1	44	33	SER	CA-C-O	-6.43	114.28	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	201	ILE	N-CA-C	6.43	117.21	110.72
1	4X	213	GLU	CA-C-N	6.43	129.41	120.29
1	4X	213	GLU	C-N-CA	6.43	129.41	120.29
1	4Y	221	VAL	CA-C-O	6.43	126.94	119.36
1	5d	119	THR	CA-C-O	6.43	126.87	119.35
1	5d	183	ASN	OD1-CG-ND2	-6.43	116.17	122.60
1	5i	146	SER	N-CA-C	6.43	121.49	112.75
1	5j	26	VAL	CA-C-N	-6.43	112.52	122.09
1	5j	26	VAL	C-N-CA	-6.43	112.52	122.09
1	5q	49	PRO	CB-CA-C	6.43	122.16	111.56
1	5y	154	ARG	NE-CZ-NH2	6.43	124.98	119.20
1	5D	173	ARG	NE-CZ-NH1	6.43	127.93	121.50
1	5L	3	VAL	CA-C-N	6.43	130.00	120.87
1	5L	3	VAL	C-N-CA	6.43	130.00	120.87
1	5M	141	ILE	CA-C-N	6.43	129.59	120.53
1	5M	141	ILE	C-N-CA	6.43	129.59	120.53
1	5R	186	THR	N-CA-C	6.43	118.08	111.14
1	5X	25	LYS	N-CA-C	-6.43	104.92	112.89
1	6q	25	LYS	N-CA-C	6.43	118.28	111.28
1	6A	83	LEU	N-CA-CB	-6.43	99.72	110.39
1	73	97	ARG	CA-C-N	6.43	129.32	120.39
1	73	97	ARG	C-N-CA	6.43	129.32	120.39
1	75	10	MET	N-CA-C	6.43	119.55	110.23
1	7g	104	ILE	O-C-N	-6.43	115.64	121.87
1	7w	223	GLY	CA-C-N	6.43	126.45	119.89
1	7w	223	GLY	C-N-CA	6.43	126.45	119.89
1	7S	48	THR	O-C-N	-6.43	113.79	121.31
1	7T	84	HIS	CA-C-N	6.43	127.87	119.84
1	7T	84	HIS	C-N-CA	6.43	127.87	119.84
1	8n	166	ASP	CA-C-N	6.43	129.42	120.29
1	8n	166	ASP	C-N-CA	6.43	129.42	120.29
1	8x	173	ARG	N-CA-C	6.43	118.28	111.28
1	8J	113	GLU	CA-C-N	6.43	128.89	120.28
1	8J	113	GLU	C-N-CA	6.43	128.89	120.28
1	8U	216	THR	N-CA-CB	6.43	120.55	110.46
1	9u	143	ARG	CA-C-N	6.43	129.53	120.28
1	9u	143	ARG	C-N-CA	6.43	129.53	120.28
1	9K	48	THR	CA-C-N	6.43	126.92	119.47
1	9K	48	THR	C-N-CA	6.43	126.92	119.47
1	9S	145	TYR	CA-C-N	-6.43	114.00	122.74
1	9S	145	TYR	C-N-CA	-6.43	114.00	122.74
1	aa	78	ALA	CA-C-O	6.43	127.57	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	av	80	TRP	CB-CG-CD2	6.43	135.80	126.80
1	bm	70	LYS	CA-C-N	6.43	129.22	120.54
1	bm	70	LYS	C-N-CA	6.43	129.22	120.54
1	bp	120	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	19	120	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	bR	171	THR	CA-C-N	6.43	128.89	120.28
1	bR	171	THR	C-N-CA	6.43	128.89	120.28
1	cm	203	LYS	CA-C-N	6.43	129.53	120.28
1	cm	203	LYS	C-N-CA	6.43	129.53	120.28
1	1f	150	ILE	CA-C-O	6.43	127.82	119.85
1	cQ	151	LEU	N-CA-C	6.43	121.28	113.38
1	cV	19	THR	N-CA-CB	6.43	119.33	110.01
1	dQ	112	GLN	N-CA-C	6.43	119.98	111.75
1	ef	174	ALA	CA-C-O	6.43	126.21	119.14
1	eq	123	PRO	CA-C-N	6.43	130.10	121.23
1	eq	123	PRO	C-N-CA	6.43	130.10	121.23
1	eM	209	ALA	O-C-N	-6.43	115.40	123.05
1	f0	188	THR	O-C-N	-6.43	115.15	122.09
1	f1	4	GLN	CB-CA-C	6.43	121.49	112.11
1	fc	118	MET	CB-CA-C	6.43	122.06	109.72
1	fd	177	ALA	CA-C-N	6.43	130.46	120.75
1	fd	177	ALA	C-N-CA	6.43	130.46	120.75
1	ff	226	HIS	CE1-NE2-CD2	-6.43	102.57	109.00
1	fm	103	ASP	CA-CB-CG	6.43	119.03	112.60
1	1z	67	GLN	N-CA-C	6.43	118.08	111.14
1	h	196	PRO	N-CA-C	6.43	125.71	112.47
1	K	45	GLU	CA-C-O	6.43	127.97	120.96
1	P	103	ASP	CA-C-N	6.43	128.66	120.56
1	P	103	ASP	C-N-CA	6.43	128.66	120.56
1	gA	159	GLU	CA-C-O	-6.42	114.57	119.32
1	gD	188	THR	CA-CB-OG1	6.42	119.24	109.60
1	h8	180	GLU	O-C-N	-6.42	115.31	122.12
1	hx	5	ASN	CB-CA-C	6.42	123.21	110.42
1	1K	50	GLN	OE1-CD-NE2	-6.42	116.17	122.60
1	hM	89	GLY	O-C-N	6.42	128.60	122.18
1	hQ	16	SER	CB-CA-C	6.42	118.70	109.26
1	i1	210	THR	N-CA-CB	6.42	119.45	110.26
1	1N	44	SER	O-C-N	-6.42	114.45	122.35
1	1P	204	ALA	O-C-N	-6.42	115.45	122.07
1	iJ	192	GLN	N-CA-C	6.42	119.27	111.82
1	iT	69	LEU	CA-C-N	6.42	129.18	120.38
1	iT	69	LEU	C-N-CA	6.42	129.18	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iV	55	MET	CA-C-N	6.42	128.89	120.28
1	iV	55	MET	C-N-CA	6.42	128.89	120.28
1	je	95	GLN	CA-C-N	6.42	132.06	123.00
1	je	95	GLN	C-N-CA	6.42	132.06	123.00
1	jj	143	ARG	N-CA-C	-6.42	105.26	113.23
1	jA	132	ARG	CA-C-N	6.42	129.41	120.29
1	jA	132	ARG	C-N-CA	6.42	129.41	120.29
1	jK	81	ASP	CA-CB-CG	6.42	119.03	112.60
1	jK	157	PRO	CB-CA-C	6.42	122.16	111.56
1	kY	214	MET	O-C-N	-6.42	115.31	122.12
1	l3	49	PRO	N-CA-CB	6.42	110.00	103.25
1	lc	92	GLU	N-CA-C	6.42	118.73	109.48
1	lB	28	GLU	N-CA-C	6.42	118.28	111.28
1	lD	33	SER	N-CA-C	-6.42	101.21	110.40
1	2a	162	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	2b	120	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
1	34	206	GLY	O-C-N	-6.42	115.35	121.77
1	34	220	GLY	CA-C-N	6.42	131.34	120.29
1	34	220	GLY	C-N-CA	6.42	131.34	120.29
1	37	62	HIS	CA-C-N	6.42	129.18	120.44
1	37	62	HIS	C-N-CA	6.42	129.18	120.44
1	37	81	ASP	N-CA-C	6.42	119.27	111.82
1	3j	1	PRO	N-CA-CB	6.42	110.07	103.00
1	3k	75	GLU	O-C-N	-6.42	115.31	122.12
1	3n	179	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	3C	3	VAL	O-C-N	-6.42	116.43	123.18
1	3C	155	GLN	CA-C-N	6.42	131.96	121.87
1	3C	155	GLN	C-N-CA	6.42	131.96	121.87
1	3R	51	ASP	N-CA-C	6.42	118.82	111.11
1	3S	181	VAL	CA-C-N	6.42	129.18	120.38
1	3S	181	VAL	C-N-CA	6.42	129.18	120.38
1	4l	161	PHE	O-C-N	-6.42	114.05	122.59
1	4V	102	SER	N-CA-C	6.42	118.28	111.28
1	53	57	ASN	CB-CG-ND2	6.42	126.04	116.40
1	5f	146	SER	CA-C-N	6.42	127.87	119.84
1	5f	146	SER	C-N-CA	6.42	127.87	119.84
1	5t	16	SER	CA-C-N	6.42	126.92	119.47
1	5t	16	SER	C-N-CA	6.42	126.92	119.47
1	5B	96	MET	CA-C-O	6.42	128.05	120.66
1	5N	5	ASN	O-C-N	-6.42	115.82	123.27
1	5N	21	ASN	CA-C-N	6.42	129.21	120.54
1	5N	21	ASN	C-N-CA	6.42	129.21	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	67	133	TRP	CB-CG-CD2	-6.42	117.81	126.80
1	69	98	GLU	CA-CB-CG	-6.42	101.25	114.10
1	6q	214	MET	CA-C-N	6.42	128.89	120.28
1	6q	214	MET	C-N-CA	6.42	128.89	120.28
1	6Z	107	THR	N-CA-CB	6.42	119.33	110.01
1	7x	176	GLN	CA-C-N	6.42	129.83	120.71
1	7x	176	GLN	C-N-CA	6.42	129.83	120.71
1	7B	143	ARG	NH1-CZ-NH2	-6.42	110.95	119.30
1	80	36	VAL	CA-C-N	6.42	124.29	120.24
1	80	36	VAL	C-N-CA	6.42	124.29	120.24
1	82	208	ALA	N-CA-CB	-6.42	100.91	110.61
1	8a	225	GLY	CA-C-N	6.42	131.81	122.36
1	8a	225	GLY	C-N-CA	6.42	131.81	122.36
1	8n	229	ARG	NH1-CZ-NH2	-6.42	110.95	119.30
1	8A	111	LEU	N-CA-C	6.42	117.94	111.07
1	8B	167	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	9F	77	ALA	N-CA-C	6.42	117.94	111.07
1	9J	63	GLN	CA-C-O	-6.42	112.84	120.10
1	9J	189	LEU	CB-CA-C	6.42	121.05	110.90
1	a8	17	PRO	CA-C-O	-6.42	109.90	119.34
1	as	186	THR	CA-C-N	6.42	129.35	121.64
1	as	186	THR	C-N-CA	6.42	129.35	121.64
1	av	144	MET	N-CA-C	6.42	119.10	111.71
1	aL	223	GLY	CA-C-N	6.42	127.87	119.84
1	aL	223	GLY	C-N-CA	6.42	127.87	119.84
1	aP	63	GLN	CG-CD-NE2	6.42	126.04	116.40
1	bi	141	ILE	CA-C-N	6.42	128.66	120.56
1	bi	141	ILE	C-N-CA	6.42	128.66	120.56
1	bJ	185	MET	CA-C-N	6.42	129.41	120.29
1	bJ	185	MET	C-N-CA	6.42	129.41	120.29
1	bR	37	ILE	O-C-N	-6.42	116.31	120.42
1	bV	57	ASN	CA-CB-CG	-6.42	106.17	112.60
1	cI	18	ARG	N-CA-C	6.42	118.28	111.28
1	cR	128	GLU	N-CA-C	6.42	118.28	111.28
1	cT	141	ILE	CA-C-N	6.42	129.26	120.46
1	cT	141	ILE	C-N-CA	6.42	129.26	120.46
1	dD	213	GLU	CB-CG-CD	6.42	123.52	112.60
1	dN	50	GLN	OE1-CD-NE2	-6.42	116.17	122.60
1	dQ	126	VAL	N-CA-C	6.42	117.17	110.62
1	dV	37	ILE	O-C-N	-6.42	113.78	121.10
1	e8	33	SER	CA-C-O	-6.42	113.70	120.70
1	eD	189	LEU	O-C-N	-6.42	113.29	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eF	31	ALA	CA-C-N	6.42	129.88	120.82
1	eF	31	ALA	C-N-CA	6.42	129.88	120.82
1	eH	41	SER	CA-C-N	6.42	128.89	120.28
1	eH	41	SER	C-N-CA	6.42	128.89	120.28
1	eJ	135	ILE	N-CA-C	6.42	117.17	110.62
1	fO	167	ARG	N-CA-C	6.42	118.28	111.28
1	fR	229	ARG	N-CA-C	6.42	119.97	109.76
1	t	144	MET	N-CA-C	-6.42	105.02	112.92
1	u	72	THR	CA-C-O	6.42	127.37	119.79
1	y	147	PRO	CA-C-N	6.42	129.96	120.90
1	y	147	PRO	C-N-CA	6.42	129.96	120.90
1	L	158	LYS	CA-C-N	6.42	132.47	121.35
1	L	158	LYS	C-N-CA	6.42	132.47	121.35
1	7	41	SER	CA-C-N	6.42	128.89	120.28
1	7	41	SER	C-N-CA	6.42	128.89	120.28
1	1C	125	PRO	CA-C-N	6.42	128.65	120.56
1	1C	125	PRO	C-N-CA	6.42	128.65	120.56
1	gA	197	ASP	CA-C-O	6.42	127.36	120.10
1	hu	113	GLU	CA-C-O	6.42	127.37	120.24
1	hV	18	ARG	CA-C-N	6.42	129.21	120.54
1	hV	18	ARG	C-N-CA	6.42	129.21	120.54
1	hW	55	MET	CA-C-N	6.42	128.89	120.28
1	hW	55	MET	C-N-CA	6.42	128.89	120.28
1	in	197	ASP	CA-C-N	6.42	128.89	120.28
1	in	197	ASP	C-N-CA	6.42	128.89	120.28
1	ip	131	LYS	CA-C-N	6.42	128.79	120.44
1	ip	131	LYS	C-N-CA	6.42	128.79	120.44
1	iq	139	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	jj	192	GLN	OE1-CD-NE2	6.42	129.02	122.60
1	jl	84	HIS	ND1-CE1-NE2	6.42	114.82	108.40
1	jL	51	ASP	O-C-N	-6.42	115.45	122.07
1	jM	87	HIS	O-C-N	-6.42	114.88	123.23
1	l7	12	HIS	CG-CD2-NE2	6.42	113.62	107.20
1	lQ	32	PHE	CA-CB-CG	-6.42	107.38	113.80
1	2u	228	ALA	CB-CA-C	6.42	120.31	109.84
1	2K	185	MET	CB-CA-C	-6.42	98.34	110.67
1	2O	11	VAL	CA-C-N	6.42	129.99	120.87
1	2O	11	VAL	C-N-CA	6.42	129.99	120.87
1	3K	162	ARG	CA-C-N	6.42	128.79	120.44
1	3K	162	ARG	C-N-CA	6.42	128.79	120.44
1	3O	56	LEU	CA-C-N	6.42	128.89	120.28
1	3O	56	LEU	C-N-CA	6.42	128.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	122	PRO	CA-C-N	6.42	126.80	119.93
1	5y	122	PRO	C-N-CA	6.42	126.80	119.93
1	7C	229	ARG	CA-C-N	6.42	129.17	120.63
1	7C	229	ARG	C-N-CA	6.42	129.17	120.63
1	8c	213	GLU	N-CA-C	6.42	118.28	111.28
1	9d	54	THR	OG1-CB-CG2	-6.42	96.45	109.30
1	9p	173	ARG	O-C-N	-6.42	114.83	122.15
1	9C	95	GLN	N-CA-CB	6.42	120.88	110.41
1	b7	66	MET	N-CA-C	6.42	118.28	111.28
1	bC	45	GLU	O-C-N	-6.42	115.12	123.02
1	cc	226	HIS	CA-CB-CG	6.42	120.22	113.80
1	dh	52	LEU	N-CA-C	6.42	118.28	111.28
1	dI	114	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	dR	166	ASP	CA-CB-CG	6.42	119.02	112.60
1	eM	174	ALA	O-C-N	-6.42	114.37	122.27
1	1B	174	ALA	CA-C-O	6.42	127.23	120.42
1	D	36	VAL	CA-C-N	6.42	124.29	120.24
1	D	36	VAL	C-N-CA	6.42	124.29	120.24
1	V	212	GLU	N-CA-C	6.42	118.28	111.28
1	6	51	ASP	O-C-N	6.42	128.93	122.12
1	go	146	SER	O-C-N	-6.42	115.44	121.35
1	gz	23	TRP	CA-C-N	6.42	128.65	120.56
1	gz	23	TRP	C-N-CA	6.42	128.65	120.56
1	gT	102	SER	CA-C-N	6.42	129.41	120.29
1	gT	102	SER	C-N-CA	6.42	129.41	120.29
1	hb	30	LYS	N-CA-C	6.42	118.36	111.36
1	ht	111	LEU	CA-C-O	6.42	127.36	120.10
1	hK	93	PRO	N-CA-CB	6.42	108.71	103.32
1	hL	163	ASP	O-C-N	-6.42	115.31	122.12
1	hV	95	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	hW	37	ILE	N-CA-C	6.42	120.70	112.67
1	1N	84	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
1	iq	52	LEU	CA-C-N	6.42	128.88	120.28
1	iq	52	LEU	C-N-CA	6.42	128.88	120.28
1	iE	76	GLU	CA-C-N	6.42	129.41	120.29
1	iE	76	GLU	C-N-CA	6.42	129.41	120.29
1	iL	210	THR	N-CA-C	6.42	118.61	110.33
1	iQ	173	ARG	NH1-CZ-NH2	-6.42	110.95	119.30
1	ji	112	GLN	CA-C-N	6.42	129.21	120.54
1	ji	112	GLN	C-N-CA	6.42	129.21	120.54
1	k0	121	ASN	CA-C-O	-6.42	113.70	119.86
1	k6	138	LEU	N-CA-C	6.42	118.28	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	120	HIS	ND1-CE1-NE2	6.42	114.82	108.40
1	kd	151	LEU	N-CA-C	6.42	120.72	113.01
1	kt	177	ALA	CA-C-N	6.42	133.80	121.54
1	kt	177	ALA	C-N-CA	6.42	133.80	121.54
1	ky	61	GLY	CA-C-N	6.42	132.12	122.68
1	ky	61	GLY	C-N-CA	6.42	132.12	122.68
1	kD	156	GLY	CA-C-O	-6.42	116.23	122.46
1	kE	95	GLN	CG-CD-NE2	-6.42	106.77	116.40
1	kK	129	ILE	CA-C-N	6.42	129.18	120.38
1	kK	129	ILE	C-N-CA	6.42	129.18	120.38
1	kQ	166	ASP	N-CA-C	6.42	117.94	111.07
1	l7	154	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	li	45	GLU	O-C-N	-6.42	115.03	122.93
1	lA	50	GLN	CA-C-N	6.42	128.79	120.44
1	lA	50	GLN	C-N-CA	6.42	128.79	120.44
1	29	229	ARG	NE-CZ-NH2	6.42	124.98	119.20
1	2l	12	HIS	CA-CB-CG	6.42	120.22	113.80
1	2B	114	GLN	N-CA-C	6.42	119.10	111.33
1	2M	197	ASP	N-CA-CB	6.42	119.32	110.01
1	3r	74	ASN	CA-CB-CG	-6.42	106.18	112.60
1	3R	173	ARG	CA-C-N	6.42	128.79	120.44
1	3R	173	ARG	C-N-CA	6.42	128.79	120.44
1	44	215	MET	O-C-N	6.42	129.47	122.15
1	4g	15	ILE	N-CA-C	6.42	117.71	109.30
1	4o	129	ILE	O-C-N	-6.42	115.62	121.91
1	4w	215	MET	N-CA-C	6.42	118.28	111.28
1	4y	152	ASP	CA-CB-CG	-6.42	106.18	112.60
1	5O	54	THR	O-C-N	-6.42	114.83	122.15
1	5Y	125	PRO	CA-C-N	6.42	129.58	120.53
1	5Y	125	PRO	C-N-CA	6.42	129.58	120.53
1	67	122	PRO	CA-C-N	6.42	126.39	120.03
1	67	122	PRO	C-N-CA	6.42	126.39	120.03
1	6e	227	LYS	O-C-N	-6.42	114.31	122.34
1	6j	217	ALA	CA-C-O	-6.42	113.42	120.81
1	6l	86	VAL	CA-C-N	6.42	131.59	122.09
1	6l	86	VAL	C-N-CA	6.42	131.59	122.09
1	6w	109	SER	CA-C-N	6.42	131.02	120.94
1	6w	109	SER	C-N-CA	6.42	131.02	120.94
1	6F	55	MET	O-C-N	-6.42	114.83	122.15
1	6G	184	TRP	N-CA-C	6.42	117.94	111.07
1	6S	95	GLN	O-C-N	-6.42	115.56	123.33
1	7c	178	SER	N-CA-C	6.42	119.08	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7h	7	GLN	CB-CG-CD	-6.42	101.68	112.60
1	7o	109	SER	O-C-N	-6.42	115.68	123.19
1	7E	186	THR	CA-C-N	6.42	128.79	120.44
1	7E	186	THR	C-N-CA	6.42	128.79	120.44
1	8a	126	VAL	CA-C-N	6.42	127.11	119.98
1	8a	126	VAL	C-N-CA	6.42	127.11	119.98
1	8e	173	ARG	NE-CZ-NH1	-6.42	115.08	121.50
1	8v	111	LEU	CA-C-O	-6.42	114.08	120.82
1	8N	174	ALA	N-CA-C	6.42	117.94	111.07
1	95	15	ILE	O-C-N	-6.42	115.82	122.63
1	9g	139	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	9r	146	SER	CA-C-O	-6.42	113.31	120.25
1	9S	98	GLU	CA-C-O	-6.42	114.03	120.64
1	9V	41	SER	O-C-N	-6.42	115.15	122.09
1	ae	19	THR	CA-C-O	-6.42	114.08	120.82
1	ak	129	ILE	N-CA-C	6.42	117.17	110.62
1	aq	91	ILE	CB-CA-C	6.42	118.87	110.91
1	aA	96	MET	CA-C-N	6.42	132.38	120.95
1	aA	96	MET	C-N-CA	6.42	132.38	120.95
1	13	82	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	aM	177	ALA	O-C-N	6.42	130.83	122.93
1	aY	35	GLU	CA-C-N	6.42	133.53	121.97
1	aY	35	GLU	C-N-CA	6.42	133.53	121.97
1	b7	162	ARG	CA-C-N	6.42	128.89	120.28
1	b7	162	ARG	C-N-CA	6.42	128.89	120.28
1	b9	8	GLY	CA-C-O	6.42	126.10	118.97
1	bo	138	LEU	CA-C-N	6.42	128.88	120.28
1	bo	138	LEU	C-N-CA	6.42	128.88	120.28
1	bq	131	LYS	O-C-N	-6.42	115.31	122.12
1	bF	223	GLY	O-C-N	-6.42	115.35	121.77
1	bZ	39	MET	O-C-N	-6.42	115.46	122.07
1	c1	229	ARG	O-C-N	-6.42	115.75	122.94
1	cu	20	LEU	N-CA-C	6.42	119.10	111.33
1	cB	195	ASN	CA-C-N	6.42	127.87	119.84
1	cB	195	ASN	C-N-CA	6.42	127.87	119.84
1	cL	226	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
1	cX	10	MET	N-CA-C	6.42	119.08	110.35
1	1i	143	ARG	CA-C-N	6.42	128.88	120.28
1	1i	143	ARG	C-N-CA	6.42	128.88	120.28
1	d4	29	GLU	CB-CA-C	-6.42	96.76	109.67
1	d5	126	VAL	N-CA-C	6.42	117.10	110.36
1	1j	55	MET	CG-SD-CE	-6.42	86.77	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dY	69	LEU	CA-C-N	6.42	128.79	120.44
1	dY	69	LEU	C-N-CA	6.42	128.79	120.44
1	f5	140	LYS	O-C-N	-6.42	115.31	122.12
1	f7	177	ALA	N-CA-C	6.42	119.55	110.50
1	fS	94	GLY	O-C-N	-6.42	114.82	122.33
1	l	150	ILE	CA-CB-CG1	6.42	121.31	110.40
1	go	103	ASP	CA-C-O	-6.42	114.09	120.70
1	gs	143	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	gR	18	ARG	CA-C-N	6.42	128.79	120.44
1	gR	18	ARG	C-N-CA	6.42	128.79	120.44
1	hp	84	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
1	hz	7	GLN	CA-C-O	6.42	126.82	119.18
1	1L	32	PHE	CA-CB-CG	-6.42	107.38	113.80
1	hO	41	SER	CA-C-O	-6.42	113.61	120.42
1	hV	20	LEU	CA-C-O	-6.42	113.61	120.42
1	id	35	GLU	N-CA-CB	6.42	120.23	110.28
1	jg	43	LEU	CA-C-O	6.42	127.27	119.31
1	jj	219	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	kf	89	GLY	CA-C-N	6.42	126.44	119.89
1	kf	89	GLY	C-N-CA	6.42	126.44	119.89
1	21	149	SER	CA-C-N	6.42	129.25	120.46
1	21	149	SER	C-N-CA	6.42	129.25	120.46
1	2v	79	GLU	CA-C-N	6.42	128.88	120.28
1	2v	79	GLU	C-N-CA	6.42	128.88	120.28
1	2v	101	GLY	CA-C-N	6.42	130.07	120.31
1	2v	101	GLY	C-N-CA	6.42	130.07	120.31
1	2X	68	MET	N-CA-C	6.42	119.09	111.71
1	3C	58	THR	CA-CB-OG1	6.42	119.23	109.60
1	41	12	HIS	CG-CD2-NE2	6.42	113.62	107.20
1	4c	211	LEU	O-C-N	-6.42	115.31	122.12
1	4l	167	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	5c	129	ILE	O-C-N	6.42	128.58	121.90
1	5d	79	GLU	CA-C-N	6.42	128.88	120.28
1	5d	79	GLU	C-N-CA	6.42	128.88	120.28
1	5r	68	MET	CA-C-N	6.42	128.88	120.28
1	5r	68	MET	C-N-CA	6.42	128.88	120.28
1	5u	12	HIS	CB-CG-CD2	-6.42	122.85	131.20
1	6G	197	ASP	O-C-N	-6.42	114.83	122.15
1	77	191	VAL	CA-C-O	6.42	126.61	119.42
1	7a	115	ILE	O-C-N	-6.42	115.39	121.87
1	8e	186	THR	CA-C-O	6.42	127.22	120.42
1	8z	126	VAL	CA-C-N	6.42	127.24	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	126	VAL	C-N-CA	6.42	127.24	119.99
1	9h	126	VAL	O-C-N	-6.42	114.67	122.12
1	aQ	169	TYR	CA-C-N	6.42	129.41	120.29
1	aQ	169	TYR	C-N-CA	6.42	129.41	120.29
1	aW	144	MET	N-CA-C	6.42	118.28	111.28
1	bf	4	GLN	N-CA-CB	6.42	121.34	110.49
1	bi	97	ARG	O-C-N	-6.42	115.06	122.89
1	bl	82	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	br	230	VAL	CA-C-O	6.42	128.18	120.67
1	bU	61	GLY	N-CA-C	6.42	122.63	111.78
1	cj	122	PRO	CA-C-N	6.42	126.44	119.89
1	cj	122	PRO	C-N-CA	6.42	126.44	119.89
1	dv	112	GLN	O-C-N	-6.42	115.31	122.12
1	e3	215	MET	CA-C-N	6.42	129.41	120.29
1	e3	215	MET	C-N-CA	6.42	129.41	120.29
1	ef	54	THR	CA-C-N	6.42	129.41	120.29
1	ef	54	THR	C-N-CA	6.42	129.41	120.29
1	ew	63	GLN	O-C-N	-6.42	114.71	122.48
1	eX	12	HIS	ND1-CE1-NE2	6.42	114.82	108.40
1	f3	75	GLU	N-CA-C	6.42	118.28	111.28
1	g6	87	HIS	CA-C-O	6.42	127.17	120.30
1	s	198	CYS	O-C-N	-6.42	114.83	122.15
1	O	50	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	gi	160	PRO	CA-C-N	6.42	133.80	121.54
1	gi	160	PRO	C-N-CA	6.42	133.80	121.54
1	gr	104	ILE	CA-C-N	6.42	129.52	120.28
1	gr	104	ILE	C-N-CA	6.42	129.52	120.28
1	gz	194	ALA	CA-C-O	6.42	129.32	121.87
1	gD	18	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	gR	18	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	h3	71	GLU	CA-C-N	6.42	129.52	120.28
1	h3	71	GLU	C-N-CA	6.42	129.52	120.28
1	h3	82	ARG	CA-C-N	6.42	128.78	120.44
1	h3	82	ARG	C-N-CA	6.42	128.78	120.44
1	h9	74	ASN	N-CA-C	6.42	117.94	111.07
1	1J	69	LEU	CA-C-N	6.42	129.21	120.54
1	1J	69	LEU	C-N-CA	6.42	129.21	120.54
1	hH	199	LYS	CA-C-O	6.42	127.28	119.38
1	hN	76	GLU	N-CA-C	6.42	119.27	111.82
1	hN	77	ALA	CA-C-N	6.42	128.88	120.28
1	hN	77	ALA	C-N-CA	6.42	128.88	120.28
1	it	45	GLU	N-CA-CB	6.42	119.51	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	80	TRP	O-C-N	-6.42	115.46	122.07
1	jc	193	ASN	CA-CB-CG	-6.42	106.18	112.60
1	js	160	PRO	N-CA-CB	6.42	109.02	103.31
1	jt	67	GLN	CA-C-O	6.42	127.35	119.97
1	1Z	227	LYS	CA-C-N	6.42	129.82	120.71
1	1Z	227	LYS	C-N-CA	6.42	129.82	120.71
1	ka	217	ALA	CA-C-N	6.42	131.72	122.35
1	ka	217	ALA	C-N-CA	6.42	131.72	122.35
1	ko	165	VAL	CA-CB-CG1	6.42	121.31	110.40
1	kJ	26	VAL	O-C-N	-6.42	115.62	121.91
1	kL	84	HIS	CG-CD2-NE2	6.42	113.62	107.20
1	kT	165	VAL	N-CA-C	6.42	117.17	110.62
1	kV	139	ASN	CA-C-O	-6.42	113.70	120.63
1	ln	156	GLY	CA-C-N	6.42	125.99	119.19
1	ln	156	GLY	C-N-CA	6.42	125.99	119.19
1	lx	97	ARG	NH1-CZ-NH2	6.42	127.64	119.30
1	2z	77	ALA	N-CA-C	6.42	118.28	111.28
1	2M	66	MET	N-CA-C	6.42	119.10	111.33
1	2X	221	VAL	CB-CA-C	6.42	120.49	111.63
1	3g	121	ASN	CA-C-O	-6.42	113.39	119.55
1	3k	184	TRP	CB-CG-CD2	6.42	135.78	126.80
1	3C	52	LEU	CA-C-N	6.42	129.52	120.28
1	3C	52	LEU	C-N-CA	6.42	129.52	120.28
1	3H	201	ILE	N-CA-C	6.42	117.17	110.62
1	4k	23	TRP	N-CA-C	6.42	119.10	111.33
1	4p	178	SER	N-CA-C	6.42	118.58	110.24
1	4v	173	ARG	CA-C-N	6.42	128.78	120.44
1	4v	173	ARG	C-N-CA	6.42	128.78	120.44
1	4y	195	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	4A	84	HIS	O-C-N	-6.42	114.03	120.83
1	4Z	10	MET	N-CA-C	6.42	119.53	109.96
1	5h	45	GLU	N-CA-CB	6.42	119.90	109.95
1	5p	82	ARG	NE-CZ-NH2	6.42	124.98	119.20
1	5u	52	LEU	O-C-N	-6.42	115.46	122.07
1	5S	92	GLU	CA-C-N	6.42	127.86	119.84
1	5S	92	GLU	C-N-CA	6.42	127.86	119.84
1	6c	208	ALA	CA-C-O	6.42	128.43	120.15
1	6x	25	LYS	N-CA-C	6.42	119.27	111.82
1	7b	228	ALA	O-C-N	-6.42	114.97	122.87
1	7G	165	VAL	N-CA-C	6.42	117.20	110.72
1	7K	217	ALA	O-C-N	6.42	130.19	122.68
1	82	41	SER	N-CA-CB	6.42	119.56	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	83	38	PRO	N-CA-CB	6.42	109.99	103.25
1	85	100	ARG	CA-C-N	6.42	127.06	119.94
1	85	100	ARG	C-N-CA	6.42	127.06	119.94
1	86	174	ALA	N-CA-C	6.42	118.28	111.28
1	8o	63	GLN	N-CA-C	6.42	119.27	111.82
1	8N	48	THR	O-C-N	-6.42	113.44	121.21
1	8O	194	ALA	O-C-N	-6.42	115.47	122.79
1	8P	5	ASN	CA-C-N	6.42	131.25	122.07
1	8P	5	ASN	C-N-CA	6.42	131.25	122.07
1	8Y	166	ASP	CA-C-O	6.42	127.56	120.82
1	9m	198	CYS	CA-C-N	6.42	129.17	120.38
1	9m	198	CYS	C-N-CA	6.42	129.17	120.38
1	9q	103	ASP	CA-C-N	6.42	128.65	120.56
1	9q	103	ASP	C-N-CA	6.42	128.65	120.56
1	Z	128	GLU	N-CA-C	6.42	118.81	111.11
1	a1	177	ALA	CA-C-O	-6.42	114.13	121.19
1	a2	223	GLY	CA-C-N	6.42	127.86	119.84
1	a2	223	GLY	C-N-CA	6.42	127.86	119.84
1	a5	196	PRO	CB-CA-C	6.42	122.98	112.26
1	aa	33	SER	CA-C-N	6.42	126.04	119.56
1	aa	33	SER	C-N-CA	6.42	126.04	119.56
1	aj	180	GLU	N-CA-C	6.42	118.81	111.11
1	aS	27	VAL	N-CA-C	6.42	116.91	110.23
1	aU	37	ILE	O-C-N	-6.42	116.31	120.42
1	aV	210	THR	O-C-N	-6.42	115.24	122.75
1	aY	173	ARG	NE-CZ-NH2	-6.42	113.42	119.20
1	17	194	ALA	N-CA-CB	6.42	119.44	110.26
1	bM	114	GLN	N-CA-C	6.42	118.28	111.28
1	cc	117	TRP	CB-CG-CD2	6.42	135.78	126.80
1	ce	93	PRO	N-CA-CB	6.42	109.05	103.27
1	ci	144	MET	CA-C-O	-6.42	113.75	120.55
1	cu	152	ASP	CA-CB-CG	6.42	119.02	112.60
1	1h	69	LEU	CA-C-N	6.42	129.20	120.54
1	1h	69	LEU	C-N-CA	6.42	129.20	120.54
1	d2	183	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	de	229	ARG	NE-CZ-NH1	-6.42	115.08	121.50
1	dz	119	THR	N-CA-CB	6.42	119.78	110.47
1	dB	210	THR	CA-C-N	6.42	129.52	120.28
1	dB	210	THR	C-N-CA	6.42	129.52	120.28
1	1m	100	ARG	O-C-N	-6.42	115.17	122.68
1	dL	12	HIS	O-C-N	-6.42	115.53	122.85
1	e2	48	THR	CA-C-N	6.42	127.86	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e2	48	THR	C-N-CA	6.42	127.86	119.84
1	ed	132	ARG	NE-CZ-NH2	6.42	124.98	119.20
1	eg	91	ILE	CA-C-N	6.42	129.31	120.39
1	eg	91	ILE	C-N-CA	6.42	129.31	120.39
1	es	35	GLU	CA-C-N	6.42	129.25	120.46
1	es	35	GLU	C-N-CA	6.42	129.25	120.46
1	eB	40	PHE	N-CA-C	6.42	118.07	111.14
1	eT	8	GLY	O-C-N	6.42	130.09	123.29
1	eX	95	GLN	O-C-N	-6.42	115.78	123.03
1	fb	148	THR	N-CA-CB	6.42	120.68	111.05
1	fd	61	GLY	CA-C-N	6.42	133.80	121.54
1	fd	61	GLY	C-N-CA	6.42	133.80	121.54
1	1w	9	GLN	O-C-N	-6.42	114.00	122.47
1	fx	53	ASN	OD1-CG-ND2	-6.42	116.18	122.60
1	fy	134	ILE	O-C-N	-6.42	115.62	121.91
1	fL	9	GLN	CB-CA-C	-6.42	99.67	110.19
1	fL	88	ALA	CA-C-N	6.42	129.58	121.36
1	fL	88	ALA	C-N-CA	6.42	129.58	121.36
1	fN	203	LYS	N-CA-C	6.42	118.28	111.28
1	g3	58	THR	O-C-N	-6.42	114.37	122.27
1	f	21	ASN	CB-CG-ND2	6.42	126.03	116.40
1	z	181	VAL	CA-C-O	-6.42	114.05	120.85
1	z	218	CYS	CB-CA-C	-6.42	98.95	110.70
1	G	177	ALA	N-CA-C	-6.42	99.56	109.76
1	gc	51	ASP	CA-C-N	6.42	129.20	120.54
1	gc	51	ASP	C-N-CA	6.42	129.20	120.54
1	gX	59	VAL	O-C-N	-6.42	115.83	122.63
1	ha	169	TYR	N-CA-C	6.42	120.37	112.54
1	hl	57	ASN	CA-CB-CG	-6.42	106.18	112.60
1	hl	217	ALA	CA-C-O	6.42	128.25	121.19
1	i2	133	TRP	O-C-N	-6.42	115.42	122.09
1	id	32	PHE	CA-CB-CG	-6.42	107.38	113.80
1	1O	39	MET	CA-C-N	6.42	128.88	120.28
1	1O	39	MET	C-N-CA	6.42	128.88	120.28
1	ip	138	LEU	N-CA-C	6.42	118.27	111.28
1	iy	137	GLY	N-CA-C	6.42	120.98	112.77
1	iz	147	PRO	N-CD-CG	6.42	112.83	103.20
1	iG	193	ASN	CA-C-N	6.42	130.44	120.75
1	iG	193	ASN	C-N-CA	6.42	130.44	120.75
1	iH	116	GLY	N-CA-C	6.42	120.43	112.73
1	iK	228	ALA	CA-C-O	6.42	128.37	121.44
1	iN	228	ALA	N-CA-C	6.42	119.21	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	88	ALA	O-C-N	-6.42	116.56	123.42
1	jq	5	ASN	N-CA-C	6.42	118.28	111.28
1	js	195	ASN	N-CA-C	6.42	118.76	109.84
1	jP	110	THR	N-CA-CB	6.42	119.44	110.26
1	k3	8	GLY	O-C-N	-6.42	115.16	122.67
1	k3	35	GLU	CA-C-O	6.42	127.32	119.11
1	k3	173	ARG	N-CA-C	-6.42	105.08	113.17
1	kh	114	GLN	N-CA-C	6.42	117.94	111.07
1	kq	2	ILE	O-C-N	-6.42	116.27	123.20
1	ku	114	GLN	OE1-CD-NE2	-6.42	116.18	122.60
1	24	123	PRO	N-CA-CB	6.42	108.93	103.35
1	kU	87	HIS	CA-CB-CG	6.42	120.22	113.80
1	lc	76	GLU	N-CA-C	6.42	118.27	111.28
1	lo	156	GLY	CA-C-N	6.42	125.91	119.24
1	lo	156	GLY	C-N-CA	6.42	125.91	119.24
1	lA	180	GLU	CA-C-O	6.42	127.35	120.55
1	29	3	VAL	N-CA-C	-6.42	98.98	109.12
1	3A	127	GLY	CA-C-O	6.42	127.36	120.75
1	3M	176	GLN	CA-C-O	6.42	127.19	119.43
1	46	99	PRO	N-CA-C	6.42	125.69	112.47
1	49	27	VAL	N-CA-C	6.42	116.58	110.42
1	4g	70	LYS	CA-C-N	6.42	128.78	120.44
1	4g	70	LYS	C-N-CA	6.42	128.78	120.44
1	4w	94	GLY	CA-C-O	6.42	126.13	119.01
1	4C	100	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	4P	26	VAL	CA-C-O	6.42	127.97	121.17
1	4W	214	MET	CA-C-O	6.42	127.35	120.10
1	51	191	VAL	N-CA-C	6.42	118.27	112.17
1	5c	93	PRO	O-C-N	-6.42	118.17	122.73
1	5n	229	ARG	NH1-CZ-NH2	-6.42	110.96	119.30
1	5F	118	MET	N-CA-C	6.42	118.28	111.28
1	5S	25	LYS	O-C-N	-6.42	114.83	122.15
1	63	195	ASN	O-C-N	-6.42	114.69	121.30
1	6C	101	GLY	N-CA-C	6.42	120.66	112.83
1	6D	139	ASN	CA-CB-CG	6.42	119.02	112.60
1	6I	46	GLY	CA-C-N	6.42	131.24	122.19
1	6I	46	GLY	C-N-CA	6.42	131.24	122.19
1	6K	65	ALA	O-C-N	-6.42	115.46	122.07
1	6P	136	LEU	N-CA-CB	6.42	119.55	110.12
1	6X	66	MET	CG-SD-CE	-6.42	86.78	100.90
1	89	203	LYS	N-CA-C	6.42	117.94	111.07
1	8n	186	THR	N-CA-C	-6.42	103.57	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	107	THR	N-CA-CB	6.42	119.63	110.13
1	8S	136	LEU	CA-C-N	6.42	127.06	120.00
1	8S	136	LEU	C-N-CA	6.42	127.06	120.00
1	97	42	ALA	N-CA-C	6.42	119.26	111.82
1	9F	134	ILE	N-CA-CB	6.42	118.06	110.55
1	a0	40	PHE	N-CA-C	-6.42	104.29	111.28
1	a1	142	VAL	N-CA-CB	6.42	120.20	110.58
1	a3	106	GLY	CA-C-O	6.42	127.02	119.19
1	aA	47	ALA	N-CA-C	6.42	119.00	110.53
1	aF	139	ASN	CA-CB-CG	6.42	119.02	112.60
1	aU	3	VAL	CA-C-O	-6.42	115.83	121.09
1	aU	100	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	15	229	ARG	CA-C-N	6.42	131.14	120.62
1	15	229	ARG	C-N-CA	6.42	131.14	120.62
1	b3	136	LEU	CA-C-N	6.42	126.94	119.94
1	b3	136	LEU	C-N-CA	6.42	126.94	119.94
1	b8	210	THR	N-CA-CB	6.42	119.47	110.04
1	18	73	ILE	CA-C-O	6.42	127.72	121.05
1	bD	9	GLN	OE1-CD-NE2	6.42	129.02	122.60
1	bN	115	ILE	CA-C-N	6.42	127.22	120.03
1	bN	115	ILE	C-N-CA	6.42	127.22	120.03
1	bR	44	SER	CA-C-O	6.42	127.19	119.43
1	ci	82	ARG	NH1-CZ-NH2	-6.42	110.96	119.30
1	ck	28	GLU	CB-CA-C	6.42	120.95	110.88
1	cW	129	ILE	N-CA-C	6.42	117.10	110.36
1	db	17	PRO	CA-C-N	6.42	128.78	120.44
1	db	17	PRO	C-N-CA	6.42	128.78	120.44
1	dx	120	HIS	CA-C-O	-6.42	114.78	122.03
1	dD	7	GLN	CA-C-N	6.42	133.99	121.41
1	dD	7	GLN	C-N-CA	6.42	133.99	121.41
1	dH	195	ASN	O-C-N	-6.42	114.24	121.43
1	e4	216	THR	CB-CA-C	-6.42	99.60	110.64
1	e5	164	TYR	N-CA-C	6.42	118.27	111.28
1	e7	21	ASN	N-CA-C	6.42	118.35	111.36
1	fe	191	VAL	CA-C-N	6.42	130.87	120.60
1	fe	191	VAL	C-N-CA	6.42	130.87	120.60
1	fn	64	ALA	N-CA-CB	6.42	119.66	110.16
1	fy	97	ARG	NE-CZ-NH2	6.42	124.97	119.20
1	fF	217	ALA	N-CA-C	6.42	119.55	110.50
1	fN	228	ALA	N-CA-C	6.42	119.29	110.24
1	fW	198	CYS	N-CA-CB	6.42	119.31	110.01
1	l	9	GLN	OE1-CD-NE2	6.42	129.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	199	LYS	CA-C-N	6.42	129.20	120.54
1	N	199	LYS	C-N-CA	6.42	129.20	120.54
1	V	6	LEU	N-CA-C	6.42	119.53	110.23
1	7	24	VAL	N-CA-C	6.42	116.58	110.42
1	gs	45	GLU	N-CA-CB	6.42	119.07	109.19
1	h3	229	ARG	CA-C-O	6.42	128.09	121.23
1	iU	7	GLN	OE1-CD-NE2	-6.42	116.19	122.60
1	jC	159	GLU	O-C-N	6.42	127.15	121.18
1	jN	92	GLU	CA-C-N	6.42	127.42	119.98
1	jN	92	GLU	C-N-CA	6.42	127.42	119.98
1	kd	205	LEU	CA-C-N	6.42	131.94	121.87
1	kd	205	LEU	C-N-CA	6.42	131.94	121.87
1	kv	115	ILE	CA-C-N	6.42	127.10	119.98
1	kv	115	ILE	C-N-CA	6.42	127.10	119.98
1	ls	229	ARG	NE-CZ-NH2	6.42	124.97	119.20
1	29	101	GLY	O-C-N	-6.42	115.29	122.28
1	lD	112	GLN	CA-C-N	6.42	128.78	120.44
1	lD	112	GLN	C-N-CA	6.42	128.78	120.44
1	2k	84	HIS	CA-C-O	-6.42	113.69	119.59
1	3m	114	GLN	N-CA-CB	6.42	119.31	110.01
1	44	2	ILE	CB-CA-C	-6.42	101.14	110.63
1	46	199	LYS	N-CA-C	6.42	118.27	111.28
1	4b	187	GLU	N-CA-C	6.42	117.93	111.07
1	4s	193	ASN	OD1-CG-ND2	-6.42	116.19	122.60
1	5w	130	TYR	CB-CG-CD1	6.42	130.42	120.80
1	5B	171	THR	O-C-N	-6.42	115.32	122.12
1	5R	204	ALA	N-CA-C	6.42	118.27	111.28
1	6w	57	ASN	CA-C-N	6.42	130.86	120.60
1	6w	57	ASN	C-N-CA	6.42	130.86	120.60
1	7G	195	ASN	CA-C-N	6.42	127.86	119.84
1	7G	195	ASN	C-N-CA	6.42	127.86	119.84
1	8d	191	VAL	N-CA-CB	6.42	117.63	110.51
1	8w	173	ARG	O-C-N	-6.42	113.83	122.43
1	96	87	HIS	CB-CG-CD2	-6.42	122.86	131.20
1	9p	16	SER	N-CA-C	6.42	117.46	109.57
1	9T	87	HIS	CA-CB-CG	6.42	120.22	113.80
1	ag	9	GLN	N-CA-C	6.42	120.81	112.92
1	ax	167	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	aI	21	ASN	OD1-CG-ND2	-6.42	116.19	122.60
1	aX	130	TYR	O-C-N	-6.42	115.32	122.12
1	b2	198	CYS	O-C-N	-6.42	115.32	122.12
1	bR	86	VAL	CA-CB-CG1	6.42	121.31	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c3	15	ILE	N-CA-C	6.42	117.32	109.30
1	c4	7	GLN	OE1-CD-NE2	-6.42	116.19	122.60
1	dx	210	THR	N-CA-CB	6.42	119.47	110.04
1	dJ	130	TYR	N-CA-C	6.42	118.27	111.28
1	e8	229	ARG	NE-CZ-NH2	-6.42	113.43	119.20
1	e9	86	VAL	CA-C-O	6.42	126.60	120.31
1	ex	24	VAL	N-CA-C	6.42	117.16	110.62
1	1t	12	HIS	CB-CG-ND1	-6.42	113.08	122.70
1	1t	204	ALA	O-C-N	-6.42	115.46	122.07
1	n	162	ARG	NE-CZ-NH1	6.42	127.92	121.50
1	o	184	TRP	CA-C-O	6.42	127.35	119.97
1	r	218	CYS	CA-C-O	-6.42	114.62	122.64
1	gd	137	GLY	CA-C-O	-6.41	114.07	121.00
1	gn	84	HIS	CB-CG-ND1	6.41	132.32	122.70
1	gN	218	CYS	N-CA-C	6.41	120.50	111.52
1	h5	101	GLY	CA-C-N	6.41	128.88	120.28
1	h5	101	GLY	C-N-CA	6.41	128.88	120.28
1	hl	82	ARG	CA-C-O	6.41	127.55	120.82
1	hD	3	VAL	CA-C-N	6.41	133.79	121.54
1	hD	3	VAL	C-N-CA	6.41	133.79	121.54
1	1L	210	THR	CA-C-N	6.41	128.87	120.28
1	1L	210	THR	C-N-CA	6.41	128.87	120.28
1	hP	120	HIS	CA-CB-CG	6.41	120.21	113.80
1	1Q	92	GLU	N-CA-CB	6.41	117.30	111.27
1	iS	135	ILE	CB-CA-C	-6.41	103.67	111.88
1	j1	28	GLU	N-CA-C	6.41	117.93	111.07
1	jv	229	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	jz	26	VAL	CA-CB-CG1	-6.41	99.50	110.40
1	jI	159	GLU	CA-C-O	-6.41	114.40	119.66
1	k0	24	VAL	N-CA-C	6.41	116.58	110.42
1	k0	169	TYR	N-CA-C	6.41	119.26	111.82
1	kq	24	VAL	N-CA-C	6.41	117.16	110.62
1	kE	185	MET	N-CA-CB	6.41	119.68	110.06
1	kS	166	ASP	CA-C-N	6.41	128.78	120.44
1	kS	166	ASP	C-N-CA	6.41	128.78	120.44
1	la	91	ILE	CA-CB-CG1	6.41	121.30	110.40
1	ld	153	ILE	N-CA-CB	-6.41	103.82	112.22
1	lF	160	PRO	CB-CA-C	6.41	116.97	109.92
1	lJ	113	GLU	CA-C-N	6.41	129.20	120.54
1	lJ	113	GLU	C-N-CA	6.41	129.20	120.54
1	2f	97	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	4L	71	GLU	CA-C-O	6.41	127.35	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4L	167	ARG	CD-NE-CZ	6.41	133.38	124.40
1	4W	226	HIS	CA-CB-CG	6.41	120.21	113.80
1	4Y	189	LEU	CA-C-O	6.41	127.22	120.42
1	54	104	ILE	N-CA-C	6.41	117.16	110.62
1	5l	132	ARG	O-C-N	-6.41	115.46	122.07
1	5p	35	GLU	N-CA-C	-6.41	104.94	112.89
1	65	125	PRO	CA-C-N	6.41	129.25	120.46
1	65	125	PRO	C-N-CA	6.41	129.25	120.46
1	6k	62	HIS	CA-C-N	6.41	128.88	120.28
1	6k	62	HIS	C-N-CA	6.41	128.88	120.28
1	6r	41	SER	CA-C-O	-6.41	114.08	120.82
1	6x	145	TYR	N-CA-C	6.41	118.27	111.28
1	6K	8	GLY	CA-C-N	6.41	132.11	122.68
1	6K	8	GLY	C-N-CA	6.41	132.11	122.68
1	6Q	28	GLU	CA-C-O	6.41	127.35	120.55
1	6S	52	LEU	N-CA-C	6.41	118.27	111.28
1	74	201	ILE	CB-CA-C	-6.41	103.76	111.97
1	7b	23	TRP	CA-C-N	6.41	129.57	120.53
1	7b	23	TRP	C-N-CA	6.41	129.57	120.53
1	7d	209	ALA	N-CA-C	6.41	119.54	110.50
1	7G	115	ILE	O-C-N	6.41	128.09	121.87
1	7P	31	ALA	N-CA-C	6.41	120.02	111.30
1	85	182	LYS	CA-C-O	-6.41	113.70	120.63
1	8d	213	GLU	N-CA-C	6.41	117.93	111.07
1	8Q	181	VAL	CA-C-N	6.41	128.88	120.28
1	8Q	181	VAL	C-N-CA	6.41	128.88	120.28
1	9H	187	GLU	O-C-N	-6.41	114.02	122.42
1	au	110	THR	CA-CB-OG1	6.41	119.22	109.60
1	13	189	LEU	CA-C-N	6.41	129.17	120.38
1	13	189	LEU	C-N-CA	6.41	129.17	120.38
1	aS	62	HIS	CB-CG-ND1	-6.41	113.08	122.70
1	aT	222	GLY	N-CA-C	6.41	120.84	112.25
1	b3	173	ARG	N-CA-C	6.41	118.81	111.11
1	b8	162	ARG	CB-CA-C	-6.41	100.55	110.81
1	bc	206	GLY	CA-C-N	6.41	127.57	120.45
1	bc	206	GLY	C-N-CA	6.41	127.57	120.45
1	bj	200	THR	CA-C-O	6.41	127.35	120.55
1	bw	165	VAL	N-CA-C	6.41	117.93	110.62
1	bE	191	VAL	CA-C-O	6.41	128.17	121.05
1	bQ	145	TYR	O-C-N	-6.41	114.46	122.35
1	bW	78	ALA	N-CA-C	6.41	118.81	111.11
1	bY	74	ASN	OD1-CG-ND2	-6.41	116.19	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c0	45	GLU	N-CA-C	6.41	118.81	111.11
1	c7	120	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	cd	50	GLN	N-CA-C	6.41	118.27	111.28
1	cd	210	THR	O-C-N	-6.41	115.54	122.85
1	cp	78	ALA	CA-C-N	6.41	129.40	120.29
1	cp	78	ALA	C-N-CA	6.41	129.40	120.29
1	cG	76	GLU	N-CA-C	6.41	118.27	111.28
1	cL	121	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	d2	195	ASN	CA-CB-CG	6.41	119.01	112.60
1	da	25	LYS	CA-C-N	6.41	128.64	120.56
1	da	25	LYS	C-N-CA	6.41	128.64	120.56
1	dA	199	LYS	N-CA-CB	-6.41	100.69	110.12
1	dL	226	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
1	dX	136	LEU	CA-C-N	6.41	127.06	119.94
1	dX	136	LEU	C-N-CA	6.41	127.06	119.94
1	eB	175	GLU	O-C-N	-6.41	115.29	122.86
1	fe	208	ALA	N-CA-C	6.41	120.21	111.17
1	fi	210	THR	N-CA-CB	6.41	120.04	110.29
1	fl	72	THR	O-C-N	-6.41	115.32	122.12
1	fl	116	GLY	CA-C-N	6.41	129.51	120.28
1	fl	116	GLY	C-N-CA	6.41	129.51	120.28
1	fG	110	THR	CA-C-N	6.41	129.71	120.79
1	fG	110	THR	C-N-CA	6.41	129.71	120.79
1	g1	7	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	p	230	VAL	CA-CB-CG2	-6.41	99.50	110.40
1	y	168	PHE	O-C-N	-6.41	115.32	122.12
1	3	84	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	N	190	LEU	CA-C-N	6.41	129.25	120.46
1	N	190	LEU	C-N-CA	6.41	129.25	120.46
1	gs	80	TRP	N-CA-C	6.41	118.27	111.28
1	gO	120	HIS	CA-C-O	-6.41	114.82	121.87
1	1G	92	GLU	CA-C-N	6.41	127.85	119.84
1	1G	92	GLU	C-N-CA	6.41	127.85	119.84
1	gY	41	SER	O-C-N	-6.41	115.17	122.09
1	hi	156	GLY	O-C-N	-6.41	115.36	121.77
1	hP	214	MET	N-CA-C	6.41	118.81	111.11
1	hY	42	ALA	N-CA-C	6.41	117.93	111.07
1	ia	12	HIS	O-C-N	-6.41	114.89	123.23
1	il	7	GLN	CA-C-O	6.41	127.05	119.48
1	iC	177	ALA	O-C-N	6.41	130.29	123.11
1	jk	177	ALA	CA-C-N	6.41	129.97	120.87
1	jk	177	ALA	C-N-CA	6.41	129.97	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k0	29	GLU	CA-C-O	-6.41	113.75	120.55
1	k8	174	ALA	CA-C-N	6.41	129.86	120.82
1	k8	174	ALA	C-N-CA	6.41	129.86	120.82
1	21	120	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	22	213	GLU	N-CA-C	6.41	117.93	111.07
1	kI	221	VAL	CA-C-O	6.41	127.12	120.39
1	l4	70	LYS	N-CA-C	6.41	118.27	111.28
1	lt	84	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	lB	18	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	2O	93	PRO	CB-CA-C	6.41	119.70	111.56
1	3d	212	GLU	N-CA-C	6.41	118.27	111.28
1	3g	189	LEU	N-CA-C	6.41	121.95	111.37
1	4P	79	GLU	N-CA-C	6.41	119.08	111.71
1	5Y	110	THR	CA-C-N	6.41	130.06	120.31
1	5Y	110	THR	C-N-CA	6.41	130.06	120.31
1	6w	138	LEU	CA-C-N	6.41	128.78	120.44
1	6w	138	LEU	C-N-CA	6.41	128.78	120.44
1	72	77	ALA	CA-C-N	6.41	128.87	120.28
1	72	77	ALA	C-N-CA	6.41	128.87	120.28
1	78	110	THR	CA-C-N	6.41	128.87	120.28
1	78	110	THR	C-N-CA	6.41	128.87	120.28
1	7C	133	TRP	N-CA-C	6.41	119.08	111.71
1	7S	9	GLN	N-CA-C	6.41	119.07	110.35
1	8s	214	MET	O-C-N	-6.41	115.47	122.07
1	92	55	MET	N-CA-C	6.41	119.26	111.82
1	9i	171	THR	N-CA-CB	6.41	119.49	109.94
1	9E	120	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
1	9P	125	PRO	CA-C-O	-6.41	113.61	123.16
1	aj	62	HIS	N-CA-C	6.41	120.26	111.54
1	ar	147	PRO	N-CA-CB	6.41	109.98	103.25
1	aB	22	ALA	CA-C-N	6.41	128.78	120.44
1	aB	22	ALA	C-N-CA	6.41	128.78	120.44
1	aT	139	ASN	OD1-CG-ND2	6.41	129.01	122.60
1	bz	80	TRP	CA-C-O	6.41	127.56	120.63
1	dq	120	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	dv	161	PHE	CB-CG-CD2	-6.41	109.80	120.70
1	dx	79	GLU	CA-C-N	6.41	128.87	120.28
1	dx	79	GLU	C-N-CA	6.41	128.87	120.28
1	dQ	226	HIS	CA-CB-CG	6.41	120.21	113.80
1	dW	9	GLN	N-CA-C	6.41	117.93	111.07
1	e5	182	LYS	CA-C-N	6.41	129.11	120.65
1	e5	182	LYS	C-N-CA	6.41	129.11	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fc	222	GLY	O-C-N	-6.41	117.30	122.81
1	fM	2	ILE	N-CA-C	6.41	118.33	109.80
1	fU	168	PHE	CA-CB-CG	6.41	120.21	113.80
1	g0	171	THR	N-CA-C	6.41	117.93	111.07
1	0	5	ASN	OD1-CG-ND2	6.41	129.01	122.60
1	0	125	PRO	N-CA-CB	-6.41	97.47	102.28
1	G	195	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	U	202	LEU	CA-C-N	6.41	128.78	120.44
1	U	202	LEU	C-N-CA	6.41	128.78	120.44
1	8	104	ILE	CA-C-N	6.41	131.43	120.72
1	8	104	ILE	C-N-CA	6.41	131.43	120.72
1	1D	119	THR	N-CA-C	-6.41	104.77	112.59
1	gA	90	PRO	N-CA-CB	6.41	109.04	103.27
1	gJ	163	ASP	N-CA-CB	6.41	120.22	110.28
1	gM	131	LYS	O-C-N	-6.41	115.33	122.12
1	1G	165	VAL	CA-C-N	6.41	128.87	120.28
1	1G	165	VAL	C-N-CA	6.41	128.87	120.28
1	1J	34	PRO	CA-C-N	6.41	130.05	120.31
1	1J	34	PRO	C-N-CA	6.41	130.05	120.31
1	hu	26	VAL	N-CA-CB	-6.41	103.05	110.55
1	hC	69	LEU	N-CA-C	6.41	117.93	111.07
1	hC	100	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	hI	63	GLN	CA-C-O	-6.41	112.86	120.10
1	hL	68	MET	N-CA-CB	6.41	119.54	110.12
1	hX	36	VAL	N-CA-C	6.41	117.16	110.62
1	ig	190	LEU	N-CA-C	6.41	118.80	111.11
1	ih	37	ILE	CA-C-O	-6.41	113.40	118.85
1	ip	62	HIS	O-C-N	-6.41	114.60	122.55
1	iz	80	TRP	CA-C-N	6.41	129.39	120.29
1	iz	80	TRP	C-N-CA	6.41	129.39	120.29
1	iS	197	ASP	CA-CB-CG	6.41	119.01	112.60
1	jd	117	TRP	N-CA-C	6.41	119.08	111.71
1	jX	145	TYR	CB-CG-CD2	-6.41	111.19	120.80
1	km	30	LYS	CA-C-N	6.41	133.78	121.54
1	km	30	LYS	C-N-CA	6.41	133.78	121.54
1	kA	71	GLU	CA-C-N	6.41	128.77	120.44
1	kA	71	GLU	C-N-CA	6.41	128.77	120.44
1	kA	82	ARG	CA-C-N	6.41	128.77	120.44
1	kA	82	ARG	C-N-CA	6.41	128.77	120.44
1	kK	188	THR	CA-C-N	6.41	128.87	120.28
1	kK	188	THR	C-N-CA	6.41	128.87	120.28
1	kL	16	SER	CA-C-N	6.41	127.85	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	16	SER	C-N-CA	6.41	127.85	119.84
1	kU	146	SER	CB-CA-C	-6.41	103.05	110.17
1	lj	62	HIS	CA-CB-CG	-6.41	107.39	113.80
1	lG	104	ILE	O-C-N	-6.41	115.63	121.91
1	lH	185	MET	N-CA-C	6.41	117.93	111.07
1	2c	229	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	2h	215	MET	N-CA-C	6.41	118.27	111.28
1	2h	216	THR	CA-CB-OG1	6.41	119.22	109.60
1	2T	208	ALA	CA-C-N	6.41	130.43	120.75
1	2T	208	ALA	C-N-CA	6.41	130.43	120.75
1	39	196	PRO	CA-C-N	6.41	128.87	120.28
1	39	196	PRO	C-N-CA	6.41	128.87	120.28
1	3q	178	SER	N-CA-CB	6.41	119.53	110.36
1	43	203	LYS	CA-C-N	6.41	128.87	120.28
1	43	203	LYS	C-N-CA	6.41	128.87	120.28
1	46	156	GLY	CA-C-N	6.41	125.84	118.85
1	46	156	GLY	C-N-CA	6.41	125.84	118.85
1	48	141	ILE	N-CA-CB	6.41	118.05	110.55
1	4u	5	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	4I	215	MET	CA-C-N	6.41	133.01	121.92
1	4I	215	MET	C-N-CA	6.41	133.01	121.92
1	5d	5	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	5j	52	LEU	N-CA-C	6.41	117.96	110.97
1	66	146	SER	CA-C-O	-6.41	115.31	121.34
1	6q	82	ARG	O-C-N	-6.41	114.72	122.22
1	7c	158	LYS	CA-C-N	6.41	130.41	120.60
1	7c	158	LYS	C-N-CA	6.41	130.41	120.60
1	7k	155	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	7w	224	PRO	CA-C-O	-6.41	114.25	121.43
1	7H	27	VAL	CB-CA-C	-6.41	103.48	112.14
1	7S	138	LEU	N-CA-CB	6.41	119.36	110.07
1	7Y	132	ARG	O-C-N	6.41	128.91	122.12
1	82	70	LYS	CA-C-O	6.41	127.35	120.55
1	8m	45	GLU	CA-C-O	6.41	127.93	120.49
1	8m	149	SER	N-CA-CB	6.41	121.32	110.49
1	8p	87	HIS	ND1-CE1-NE2	6.41	114.81	108.40
1	8A	202	LEU	CA-C-N	6.41	130.05	120.31
1	8A	202	LEU	C-N-CA	6.41	130.05	120.31
1	8D	11	VAL	N-CA-C	6.41	117.53	108.36
1	8I	143	ARG	N-CA-CB	-6.41	100.70	110.12
1	8R	156	GLY	CA-C-N	6.41	125.84	118.85
1	8R	156	GLY	C-N-CA	6.41	125.84	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	131	LYS	O-C-N	-6.41	115.47	122.07
1	93	98	GLU	N-CA-C	6.41	117.73	109.65
1	9m	183	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	9H	173	ARG	O-C-N	-6.41	115.47	122.07
1	9V	126	VAL	CA-C-N	6.41	127.21	120.03
1	9V	126	VAL	C-N-CA	6.41	127.21	120.03
1	9Y	165	VAL	CA-C-N	6.41	128.77	120.44
1	9Y	165	VAL	C-N-CA	6.41	128.77	120.44
1	an	163	ASP	CA-C-N	6.41	129.16	120.38
1	an	163	ASP	C-N-CA	6.41	129.16	120.38
1	16	5	ASN	CA-CB-CG	6.41	119.01	112.60
1	ba	12	HIS	CG-CD2-NE2	6.41	113.61	107.20
1	bg	188	THR	CA-C-N	6.41	128.77	120.44
1	bg	188	THR	C-N-CA	6.41	128.77	120.44
1	bh	161	PHE	CA-C-O	6.41	127.34	120.55
1	bB	95	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	bL	117	TRP	CA-C-O	-6.41	114.09	120.82
1	bO	51	ASP	CA-C-N	6.41	129.16	120.38
1	bO	51	ASP	C-N-CA	6.41	129.16	120.38
1	bP	26	VAL	O-C-N	-6.41	114.56	121.80
1	c1	169	TYR	N-CA-C	6.41	118.27	111.28
1	cd	25	LYS	N-CA-C	6.41	119.08	111.71
1	cg	163	ASP	CA-C-N	6.41	128.87	120.28
1	cg	163	ASP	C-N-CA	6.41	128.87	120.28
1	ck	57	ASN	N-CA-C	6.41	118.27	111.28
1	cy	53	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	dp	176	GLN	CA-C-O	6.41	127.16	119.59
1	dF	93	PRO	N-CA-CB	-6.41	96.52	103.25
1	dI	86	VAL	O-C-N	-6.41	116.26	123.18
1	dQ	89	GLY	CA-C-N	6.41	127.85	119.84
1	dQ	89	GLY	C-N-CA	6.41	127.85	119.84
1	1n	12	HIS	ND1-CG-CD2	-6.41	99.69	106.10
1	dT	4	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	ek	179	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	el	132	ARG	CA-C-N	6.41	129.16	120.44
1	el	132	ARG	C-N-CA	6.41	129.16	120.44
1	1q	21	ASN	CA-C-O	-6.41	113.62	120.42
1	es	20	LEU	N-CA-C	6.41	119.26	111.82
1	fh	98	GLU	N-CA-C	6.41	117.45	109.57
1	fi	143	ARG	CD-NE-CZ	-6.41	115.42	124.40
1	g6	113	GLU	O-C-N	-6.41	115.47	122.07
1	c	133	TRP	CA-C-N	6.41	129.52	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	133	TRP	C-N-CA	6.41	129.52	120.42
1	gj	76	GLU	CA-C-N	6.41	129.19	120.54
1	gj	76	GLU	C-N-CA	6.41	129.19	120.54
1	gl	110	THR	CA-C-O	6.41	129.48	121.66
1	go	27	VAL	N-CA-C	6.41	117.16	110.62
1	go	169	TYR	N-CA-C	6.41	119.08	111.71
1	gx	92	GLU	N-CA-C	6.41	117.97	109.83
1	gA	112	GLN	N-CA-C	6.41	118.80	111.11
1	gL	15	ILE	O-C-N	-6.41	116.02	122.62
1	1F	105	ALA	N-CA-C	6.41	119.25	111.82
1	gM	76	GLU	N-CA-CB	6.41	119.54	110.12
1	gN	191	VAL	N-CA-C	6.41	117.19	110.72
1	gS	193	ASN	N-CA-C	-6.41	104.94	112.89
1	gU	115	ILE	N-CA-C	-6.41	104.25	110.72
1	gV	195	ASN	CA-C-O	-6.41	114.33	119.71
1	ha	89	GLY	O-C-N	-6.41	115.36	121.77
1	hG	18	ARG	N-CA-C	6.41	118.27	111.28
1	hT	183	ASN	CB-CG-OD1	6.41	133.62	120.80
1	hU	71	GLU	N-CA-C	6.41	118.35	111.36
1	ii	20	LEU	CA-C-O	6.41	127.30	120.70
1	ir	71	GLU	N-CA-C	6.41	118.27	111.28
1	iD	12	HIS	O-C-N	-6.41	115.72	122.96
1	iL	128	GLU	CA-C-N	6.41	128.64	120.56
1	iL	128	GLU	C-N-CA	6.41	128.64	120.56
1	iQ	183	ASN	N-CA-C	6.41	118.27	111.28
1	j4	74	ASN	CA-CB-CG	-6.41	106.19	112.60
1	1V	194	ALA	CA-C-N	6.41	129.30	120.39
1	1V	194	ALA	C-N-CA	6.41	129.30	120.39
1	1Y	63	GLN	CA-C-O	6.41	127.30	120.70
1	kk	112	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	kl	150	ILE	O-C-N	-6.41	114.62	122.18
1	kt	132	ARG	CB-CA-C	6.41	121.74	110.85
1	22	53	ASN	O-C-N	-6.41	114.39	122.27
1	22	94	GLY	O-C-N	-6.41	116.48	122.50
1	kz	191	VAL	CA-C-N	6.41	128.87	120.28
1	kz	191	VAL	C-N-CA	6.41	128.87	120.28
1	kA	196	PRO	N-CA-CB	-6.41	97.36	103.51
1	23	156	GLY	CA-C-N	6.41	127.56	120.45
1	23	156	GLY	C-N-CA	6.41	127.56	120.45
1	kK	139	ASN	N-CA-C	-6.41	104.39	111.82
1	kZ	74	ASN	CB-CG-OD1	6.41	133.62	120.80
1	l1	41	SER	N-CA-C	6.41	118.27	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l3	225	GLY	O-C-N	-6.41	114.37	122.70
1	lL	28	GLU	N-CA-C	6.41	117.93	111.07
1	2b	7	GLN	O-C-N	-6.41	114.47	122.35
1	2n	75	GLU	CA-C-N	6.41	128.87	120.28
1	2n	75	GLU	C-N-CA	6.41	128.87	120.28
1	2Q	37	ILE	CA-C-O	-6.41	114.40	118.69
1	31	75	GLU	O-C-N	-6.41	114.84	122.15
1	3a	72	THR	O-C-N	-6.41	115.33	122.12
1	3V	77	ALA	N-CA-C	6.41	118.27	111.28
1	40	92	GLU	N-CA-C	6.41	117.78	109.64
1	4k	40	PHE	N-CA-CB	6.41	119.64	110.16
1	4n	62	HIS	CA-C-O	-6.41	113.65	121.28
1	4q	72	THR	CA-C-O	6.41	127.30	120.70
1	4v	173	ARG	CA-CB-CG	6.41	126.92	114.10
1	4D	193	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	4R	72	THR	N-CA-CB	6.41	119.54	110.12
1	4V	96	MET	N-CA-C	6.41	119.32	110.35
1	4V	210	THR	N-CA-CB	6.41	119.42	110.26
1	5m	127	GLY	CA-C-O	6.41	127.32	120.40
1	5w	39	MET	N-CA-CB	-6.41	100.68	110.16
1	5w	85	PRO	CA-C-N	6.41	129.82	120.91
1	5w	85	PRO	C-N-CA	6.41	129.82	120.91
1	5x	141	ILE	N-CA-CB	6.41	118.05	110.55
1	5F	29	GLU	N-CA-C	6.41	119.57	111.69
1	62	224	PRO	N-CA-C	6.41	121.97	113.57
1	6A	199	LYS	CA-C-N	6.41	129.39	120.29
1	6A	199	LYS	C-N-CA	6.41	129.39	120.29
1	6M	21	ASN	O-C-N	6.41	128.67	122.07
1	6P	117	TRP	CA-C-O	-6.41	112.60	119.97
1	6X	35	GLU	CA-C-N	6.41	129.52	120.42
1	6X	35	GLU	C-N-CA	6.41	129.52	120.42
1	7a	37	ILE	O-C-N	-6.41	116.32	120.42
1	7g	203	LYS	CA-C-O	6.41	127.34	120.55
1	7r	156	GLY	CA-C-N	6.41	126.63	119.32
1	7r	156	GLY	C-N-CA	6.41	126.63	119.32
1	7T	144	MET	N-CA-C	6.41	118.80	111.11
1	85	28	GLU	O-C-N	-6.41	115.17	122.09
1	86	53	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	8g	166	ASP	CA-C-O	6.41	127.55	120.82
1	8y	57	ASN	CA-CB-CG	-6.41	106.19	112.60
1	95	15	ILE	CA-C-N	6.41	129.30	120.39
1	95	15	ILE	C-N-CA	6.41	129.30	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	82	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	9p	78	ALA	CA-C-N	6.41	128.87	120.28
1	9p	78	ALA	C-N-CA	6.41	128.87	120.28
1	9r	59	VAL	O-C-N	-6.41	115.69	122.67
1	9O	156	GLY	O-C-N	-6.41	115.36	121.77
1	9O	195	ASN	CA-C-N	6.41	127.85	119.84
1	9O	195	ASN	C-N-CA	6.41	127.85	119.84
1	a4	174	ALA	N-CA-C	6.41	118.27	111.28
1	ar	26	VAL	N-CA-C	6.41	117.16	110.62
1	at	220	GLY	O-C-N	-6.41	117.71	122.71
1	ax	226	HIS	CA-C-O	6.41	127.25	120.33
1	aC	201	ILE	N-CA-C	-6.41	104.50	110.53
1	aW	72	THR	CA-C-N	6.41	128.64	120.56
1	aW	72	THR	C-N-CA	6.41	128.64	120.56
1	bm	140	LYS	N-CA-C	6.41	118.27	111.28
1	bn	213	GLU	N-CA-C	6.41	118.27	111.28
1	c0	102	SER	O-C-N	-6.41	115.33	122.12
1	c1	14	ALA	N-CA-CB	6.41	119.42	110.26
1	c3	138	LEU	CA-C-N	6.41	129.16	120.38
1	c3	138	LEU	C-N-CA	6.41	129.16	120.38
1	c8	135	ILE	O-C-N	-6.41	115.65	121.87
1	cl	74	ASN	N-CA-C	6.41	118.27	111.28
1	cv	61	GLY	N-CA-C	6.41	123.79	112.64
1	cJ	165	VAL	CA-C-N	6.41	128.87	120.28
1	cJ	165	VAL	C-N-CA	6.41	128.87	120.28
1	cT	16	SER	CA-C-N	6.41	127.85	119.84
1	cT	16	SER	C-N-CA	6.41	127.85	119.84
1	di	218	CYS	CB-CA-C	6.41	123.17	110.42
1	dr	217	ALA	CA-C-N	6.41	131.23	122.19
1	dr	217	ALA	C-N-CA	6.41	131.23	122.19
1	dy	19	THR	O-C-N	-6.41	115.33	122.12
1	dy	48	THR	CA-CB-OG1	6.41	119.21	109.60
1	dD	193	ASN	CA-C-N	6.41	129.85	120.82
1	dD	193	ASN	C-N-CA	6.41	129.85	120.82
1	dM	55	MET	N-CA-C	6.41	117.93	111.07
1	e4	108	THR	CA-CB-OG1	6.41	119.21	109.60
1	ed	219	GLN	CA-C-N	6.41	127.05	120.00
1	ed	219	GLN	C-N-CA	6.41	127.05	120.00
1	ev	74	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	eA	36	VAL	N-CA-C	6.41	117.16	110.62
1	eG	126	VAL	CA-C-N	6.41	127.05	120.00
1	eG	126	VAL	C-N-CA	6.41	127.05	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fc	114	GLN	N-CA-C	6.41	118.80	111.11
1	1y	8	GLY	O-C-N	-6.41	115.99	123.17
1	fY	80	TRP	N-CA-C	6.41	119.08	111.71
1	g6	211	LEU	O-C-N	-6.41	115.42	122.09
1	d	95	GLN	OE1-CD-NE2	6.41	129.01	122.60
1	C	97	ARG	N-CA-CB	6.41	119.46	110.04
1	D	192	GLN	CB-CG-CD	6.41	123.50	112.60
1	j5	24	VAL	O-C-N	-6.41	115.24	121.90
1	jX	224	PRO	CA-C-N	6.41	132.38	121.87
1	jX	224	PRO	C-N-CA	6.41	132.38	121.87
1	kv	156	GLY	CA-C-N	6.41	126.16	119.05
1	kv	156	GLY	C-N-CA	6.41	126.16	119.05
1	l3	170	LYS	O-C-N	-6.41	114.72	122.22
1	lQ	114	GLN	N-CA-C	6.41	117.92	111.07
1	lQ	118	MET	N-CA-C	6.41	119.08	111.33
1	2n	5	ASN	CA-CB-CG	6.41	119.01	112.60
1	2R	59	VAL	O-C-N	-6.41	115.69	122.67
1	2W	81	ASP	N-CA-CB	-6.41	100.70	110.12
1	30	217	ALA	CA-C-O	6.41	128.84	121.28
1	34	47	ALA	N-CA-C	6.41	119.53	110.50
1	39	18	ARG	NE-CZ-NH2	-6.41	113.43	119.20
1	3h	215	MET	N-CA-C	6.41	119.95	111.75
1	3x	63	GLN	N-CA-C	6.41	118.26	111.28
1	3W	189	LEU	CA-C-N	6.41	128.87	120.28
1	3W	189	LEU	C-N-CA	6.41	128.87	120.28
1	4F	82	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	4N	149	SER	O-C-N	-6.41	114.62	122.82
1	4X	145	TYR	CB-CG-CD2	6.41	130.41	120.80
1	5Y	189	LEU	N-CA-C	6.41	119.08	111.71
1	7F	75	GLU	N-CA-C	6.41	118.26	111.28
1	86	143	ARG	NE-CZ-NH1	6.41	127.91	121.50
1	8l	117	TRP	N-CA-C	6.41	118.26	111.28
1	8Y	161	PHE	CA-CB-CG	-6.41	107.39	113.80
1	9g	50	GLN	OE1-CD-NE2	-6.41	116.19	122.60
1	ao	120	HIS	CA-C-O	6.41	129.67	120.51
1	aV	138	LEU	CB-CA-C	6.41	121.43	110.79
1	1b	78	ALA	N-CA-C	-6.41	104.22	111.07
1	c9	123	PRO	N-CA-C	6.41	121.40	111.21
1	ca	15	ILE	O-C-N	-6.41	115.84	122.63
1	cC	21	ASN	CA-CB-CG	-6.41	106.19	112.60
1	dc	228	ALA	N-CA-C	6.41	119.95	109.76
1	dJ	65	ALA	N-CA-C	6.41	118.26	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dR	63	GLN	N-CA-C	6.41	117.93	111.07
1	dS	195	ASN	N-CA-CB	-6.41	100.36	110.03
1	eK	185	MET	N-CA-C	6.41	118.80	111.11
1	fu	87	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
1	3	229	ARG	NE-CZ-NH2	6.41	124.97	119.20
1	N	4	GLN	N-CA-C	-6.41	97.83	108.34
1	R	54	THR	N-CA-CB	6.41	119.30	110.01
1	gd	73	ILE	N-CA-C	6.41	117.92	110.62
1	gH	87	HIS	CA-CB-CG	6.41	120.21	113.80
1	gP	50	GLN	N-CA-C	6.41	119.08	111.33
1	h6	37	ILE	CA-C-O	-6.41	114.40	118.69
1	h6	136	LEU	N-CA-CB	-6.41	100.70	110.12
1	h7	133	TRP	CA-C-O	6.41	127.21	120.42
1	ho	189	LEU	CA-C-N	6.41	130.43	120.82
1	ho	189	LEU	C-N-CA	6.41	130.43	120.82
1	hC	193	ASN	N-CA-C	-6.41	105.33	113.02
1	ii	5	ASN	O-C-N	-6.41	113.85	122.43
1	ij	181	VAL	N-CA-C	6.41	116.57	110.42
1	iu	150	ILE	CA-C-O	6.41	127.79	119.85
1	iJ	94	GLY	CA-C-N	-6.41	111.88	122.39
1	iJ	94	GLY	C-N-CA	-6.41	111.88	122.39
1	1S	2	ILE	O-C-N	-6.41	116.45	123.18
1	iX	62	HIS	ND1-CG-CD2	6.41	112.50	106.10
1	j0	20	LEU	O-C-N	6.41	128.67	122.07
1	js	14	ALA	N-CA-C	6.41	119.52	110.23
1	jt	10	MET	N-CA-C	6.41	119.52	110.23
1	jG	205	LEU	O-C-N	-6.41	113.31	122.41
1	jS	111	LEU	CA-C-N	6.41	128.86	120.28
1	jS	111	LEU	C-N-CA	6.41	128.86	120.28
1	1Z	161	PHE	N-CA-C	-6.41	104.30	111.28
1	k1	5	ASN	O-C-N	-6.41	115.42	123.17
1	k2	133	TRP	CA-C-O	6.41	127.34	119.97
1	k4	145	TYR	O-C-N	-6.41	114.65	122.34
1	20	45	GLU	CB-CG-CD	6.41	123.49	112.60
1	kg	71	GLU	CA-C-N	6.41	128.86	120.28
1	kg	71	GLU	C-N-CA	6.41	128.86	120.28
1	kv	114	GLN	CA-C-N	6.41	128.63	120.56
1	kv	114	GLN	C-N-CA	6.41	128.63	120.56
1	kJ	97	ARG	NE-CZ-NH2	6.41	124.97	119.20
1	kK	27	VAL	O-C-N	-6.41	115.66	121.87
1	25	115	ILE	N-CA-C	6.41	117.15	110.62
1	lg	95	GLN	N-CA-C	6.41	118.34	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	136	LEU	CA-C-N	6.41	127.23	119.99
1	ll	136	LEU	C-N-CA	6.41	127.23	119.99
1	lq	114	GLN	N-CA-CB	-6.41	100.68	110.16
1	28	122	PRO	CA-C-N	6.41	126.38	119.78
1	28	122	PRO	C-N-CA	6.41	126.38	119.78
1	lP	106	GLY	CA-C-N	6.41	130.43	120.82
1	lP	106	GLY	C-N-CA	6.41	130.43	120.82
1	2e	121	ASN	OD1-CG-ND2	-6.41	116.19	122.60
1	2y	213	GLU	CA-C-N	6.41	128.86	120.28
1	2y	213	GLU	C-N-CA	6.41	128.86	120.28
1	2C	223	GLY	O-C-N	-6.41	115.36	121.77
1	2G	84	HIS	CA-C-N	6.41	127.85	119.84
1	2G	84	HIS	C-N-CA	6.41	127.85	119.84
1	2Y	220	GLY	N-CA-C	-6.41	106.88	115.21
1	37	42	ALA	N-CA-C	6.41	118.26	111.28
1	3v	100	ARG	CA-C-N	6.41	127.23	119.99
1	3v	100	ARG	C-N-CA	6.41	127.23	119.99
1	3J	12	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
1	3L	76	GLU	CA-C-O	6.41	127.33	119.97
1	3N	21	ASN	CA-CB-CG	6.41	119.00	112.60
1	47	3	VAL	O-C-N	-6.41	116.25	123.10
1	49	190	LEU	N-CA-C	-6.41	105.42	112.72
1	4n	57	ASN	CA-CB-CG	6.41	119.00	112.60
1	58	132	ARG	CA-C-N	6.41	128.86	120.28
1	58	132	ARG	C-N-CA	6.41	128.86	120.28
1	5q	135	ILE	O-C-N	-6.41	115.63	121.91
1	5Q	12	HIS	CB-CG-CD2	-6.41	122.87	131.20
1	5T	95	GLN	N-CA-C	-6.41	105.39	113.72
1	5U	212	GLU	O-C-N	-6.41	115.33	122.12
1	5V	48	THR	CA-C-O	-6.41	113.45	121.01
1	5V	159	GLU	CA-C-N	6.41	126.32	119.85
1	5V	159	GLU	C-N-CA	6.41	126.32	119.85
1	6u	84	HIS	CA-C-O	-6.41	113.81	120.09
1	6H	187	GLU	O-C-N	-6.41	113.90	122.23
1	6U	12	HIS	CA-C-O	6.41	128.18	120.81
1	7q	117	TRP	N-CA-C	6.41	118.26	111.28
1	7z	33	SER	O-C-N	-6.41	114.81	121.60
1	7E	198	CYS	CA-C-N	6.41	129.19	120.54
1	7E	198	CYS	C-N-CA	6.41	129.19	120.54
1	7T	197	ASP	CA-C-N	6.41	129.69	120.79
1	7T	197	ASP	C-N-CA	6.41	129.69	120.79
1	7W	121	ASN	CA-CB-CG	-6.41	106.19	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7W	185	MET	CG-SD-CE	-6.41	86.81	100.90
1	7X	23	TRP	N-CA-C	6.41	117.92	111.07
1	85	226	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
1	8u	93	PRO	CA-C-O	-6.41	114.26	121.43
1	8D	80	TRP	CB-CG-CD2	-6.41	117.83	126.80
1	8G	87	HIS	ND1-CE1-NE2	6.41	114.81	108.40
1	8I	28	GLU	N-CA-C	6.41	117.92	111.07
1	8K	83	LEU	CA-C-O	-6.41	113.72	121.28
1	8T	110	THR	CA-CB-OG1	6.41	119.21	109.60
1	8V	173	ARG	N-CA-C	6.41	119.08	111.71
1	9e	104	ILE	N-CA-C	6.41	117.16	110.62
1	9k	86	VAL	N-CA-C	6.41	118.85	109.63
1	9X	162	ARG	NH1-CZ-NH2	-6.41	110.97	119.30
1	a7	145	TYR	CB-CG-CD2	-6.41	111.19	120.80
1	aC	149	SER	O-C-N	-6.41	115.56	123.44
1	bd	188	THR	O-C-N	-6.41	114.07	122.59
1	bu	32	PHE	CA-CB-CG	-6.41	107.39	113.80
1	bA	140	LYS	CA-C-N	6.41	129.24	120.46
1	bA	140	LYS	C-N-CA	6.41	129.24	120.46
1	bH	164	TYR	N-CA-C	6.41	117.92	111.07
1	bR	204	ALA	N-CA-C	6.41	119.08	111.71
1	cy	154	ARG	NH1-CZ-NH2	-6.41	110.97	119.30
1	cR	12	HIS	ND1-CE1-NE2	6.41	114.81	108.40
1	dd	48	THR	CA-C-O	-6.41	113.82	120.87
1	dd	195	ASN	CA-C-N	6.41	127.85	119.84
1	dd	195	ASN	C-N-CA	6.41	127.85	119.84
1	1j	15	ILE	N-CA-C	6.41	117.58	108.93
1	dv	132	ARG	N-CA-C	6.41	118.26	111.28
1	dU	138	LEU	O-C-N	-6.41	115.33	122.12
1	ep	127	GLY	CA-C-N	6.41	128.86	120.28
1	ep	127	GLY	C-N-CA	6.41	128.86	120.28
1	eB	82	ARG	CB-CA-C	6.41	120.83	110.96
1	eE	115	ILE	CA-C-N	6.41	127.09	119.98
1	eE	115	ILE	C-N-CA	6.41	127.09	119.98
1	fo	14	ALA	CA-C-O	6.41	128.34	121.55
1	fo	91	ILE	N-CA-C	6.41	117.15	110.62
1	fP	214	MET	CG-SD-CE	-6.41	86.81	100.90
1	g0	110	THR	N-CA-C	6.41	120.35	110.42
1	g6	83	LEU	O-C-N	-6.41	115.33	122.12
1	b	185	MET	CA-C-O	-6.41	114.09	120.82
1	3	22	ALA	CA-C-N	6.41	128.86	120.28
1	3	22	ALA	C-N-CA	6.41	128.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	17	PRO	CA-C-N	6.41	129.15	120.44
1	W	17	PRO	C-N-CA	6.41	129.15	120.44
1	gB	161	PHE	CA-CB-CG	-6.40	107.40	113.80
1	gL	164	TYR	CA-CB-CG	6.40	125.43	113.90
1	hi	64	ALA	N-CA-C	6.40	118.79	111.11
1	hm	168	PHE	CA-CB-CG	6.40	120.20	113.80
1	hS	214	MET	CA-C-N	6.40	128.86	120.28
1	hS	214	MET	C-N-CA	6.40	128.86	120.28
1	i6	21	ASN	CA-CB-CG	-6.40	106.20	112.60
1	iA	156	GLY	O-C-N	-6.40	115.78	122.18
1	iA	208	ALA	CA-C-N	6.40	129.92	120.95
1	iA	208	ALA	C-N-CA	6.40	129.92	120.95
1	iU	112	GLN	CA-C-N	6.40	129.38	120.29
1	iU	112	GLN	C-N-CA	6.40	129.38	120.29
1	iW	42	ALA	N-CA-C	6.40	117.92	111.07
1	j5	118	MET	N-CA-C	6.40	119.08	111.71
1	k5	135	ILE	CA-C-O	-6.40	114.06	120.85
1	kk	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	l2	150	ILE	O-C-N	-6.40	114.69	122.12
1	lb	43	LEU	N-CA-C	6.40	120.35	112.54
1	lj	227	LYS	CA-C-O	6.40	127.34	120.55
1	lw	41	SER	N-CA-C	6.40	119.08	111.33
1	lw	97	ARG	NE-CZ-NH2	-6.40	113.44	119.20
1	2E	111	LEU	O-C-N	-6.40	114.90	122.20
1	2R	119	THR	N-CA-CB	6.40	120.80	110.42
1	3c	226	HIS	CG-CD2-NE2	6.40	113.60	107.20
1	3s	137	GLY	O-C-N	-6.40	115.45	122.24
1	4m	33	SER	O-C-N	-6.40	114.81	121.60
1	4Q	21	ASN	CA-CB-CG	6.40	119.00	112.60
1	5G	183	ASN	CB-CA-C	6.40	120.94	110.88
1	6b	71	GLU	N-CA-C	6.40	117.92	111.07
1	70	121	ASN	O-C-N	-6.40	115.23	121.38
1	7x	82	ARG	CA-C-N	6.40	128.76	120.44
1	7x	82	ARG	C-N-CA	6.40	128.76	120.44
1	8b	132	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	8U	84	HIS	CA-CB-CG	-6.40	107.40	113.80
1	9g	95	GLN	CA-C-N	6.40	130.42	120.75
1	9g	95	GLN	C-N-CA	6.40	130.42	120.75
1	9v	173	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	9Q	221	VAL	O-C-N	-6.40	115.92	123.03
1	ad	27	VAL	CA-CB-CG1	6.40	121.29	110.40
1	ay	215	MET	CA-C-N	6.40	129.15	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ay	215	MET	C-N-CA	6.40	129.15	120.38
1	aE	51	ASP	CA-C-N	6.40	129.19	120.54
1	aE	51	ASP	C-N-CA	6.40	129.19	120.54
1	aM	80	TRP	N-CA-C	6.40	118.26	111.28
1	ba	23	TRP	O-C-N	-6.40	115.33	122.12
1	17	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	br	167	ARG	NH1-CZ-NH2	-6.40	110.97	119.30
1	bw	140	LYS	CA-C-O	6.40	127.21	120.42
1	ch	42	ALA	N-CA-C	6.40	119.25	111.82
1	cT	18	ARG	NH1-CZ-NH2	6.40	127.62	119.30
1	cX	90	PRO	N-CA-C	6.40	121.29	111.11
1	da	15	ILE	O-C-N	-6.40	114.56	122.57
1	dI	138	LEU	CA-C-N	6.40	128.77	120.44
1	dI	138	LEU	C-N-CA	6.40	128.77	120.44
1	dY	191	VAL	CA-C-N	6.40	129.73	120.38
1	dY	191	VAL	C-N-CA	6.40	129.73	120.38
1	eh	189	LEU	N-CA-C	6.40	118.79	111.11
1	eT	214	MET	CG-SD-CE	6.40	114.99	100.90
1	fb	141	ILE	CA-C-O	-6.40	114.29	120.95
1	fA	126	VAL	N-CA-C	6.40	117.92	110.62
1	fC	129	ILE	O-C-N	6.40	128.43	121.83
1	fP	175	GLU	CA-C-O	6.40	128.34	121.55
1	F	108	THR	O-C-N	-6.40	114.49	122.24
1	S	127	GLY	CA-C-N	6.40	129.50	120.28
1	S	127	GLY	C-N-CA	6.40	129.50	120.28
1	gf	132	ARG	CA-C-O	-6.40	113.63	120.42
1	gi	48	THR	O-C-N	-6.40	113.51	121.64
1	gA	4	GLN	N-CA-C	6.40	118.82	110.43
1	gF	142	VAL	O-C-N	-6.40	115.66	121.87
1	h5	170	LYS	CA-C-N	6.40	128.76	120.44
1	h5	170	LYS	C-N-CA	6.40	128.76	120.44
1	1H	116	GLY	CA-C-O	-6.40	113.87	120.66
1	ha	196	PRO	CA-N-CD	-6.40	103.04	112.00
1	hx	143	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	hS	213	GLU	N-CA-C	6.40	117.92	111.07
1	i1	176	GLN	N-CA-C	6.40	119.92	111.28
1	i3	161	PHE	CB-CA-C	6.40	120.93	110.88
1	jm	64	ALA	O-C-N	6.40	128.66	122.07
1	jp	125	PRO	CA-C-N	6.40	129.23	120.46
1	jp	125	PRO	C-N-CA	6.40	129.23	120.46
1	kW	208	ALA	N-CA-C	-6.40	105.10	113.17
1	lg	100	ARG	CD-NE-CZ	6.40	133.36	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	192	GLN	N-CA-C	6.40	119.07	111.71
1	lB	87	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	2e	28	GLU	N-CA-C	6.40	117.92	111.07
1	2o	41	SER	N-CA-C	6.40	118.26	111.28
1	2q	112	GLN	CA-C-N	6.40	128.86	120.28
1	2q	112	GLN	C-N-CA	6.40	128.86	120.28
1	2E	132	ARG	N-CA-C	6.40	118.34	111.36
1	3a	38	PRO	CA-C-N	6.40	129.38	120.29
1	3a	38	PRO	C-N-CA	6.40	129.38	120.29
1	3p	172	LEU	N-CA-CB	-6.40	99.97	110.40
1	3w	27	VAL	O-C-N	-6.40	115.66	121.87
1	3E	146	SER	N-CA-CB	6.40	119.84	110.30
1	3T	12	HIS	ND1-CE1-NE2	6.40	114.80	108.40
1	4a	227	LYS	O-C-N	-6.40	114.63	122.25
1	4h	194	ALA	O-C-N	-6.40	115.44	123.12
1	4B	135	ILE	N-CA-C	6.40	117.15	110.62
1	4G	194	ALA	CA-C-N	6.40	129.36	120.65
1	4G	194	ALA	C-N-CA	6.40	129.36	120.65
1	4M	57	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	4O	184	TRP	CH2-CZ2-CE2	6.40	125.82	117.50
1	4Q	87	HIS	CA-C-O	6.40	128.19	121.15
1	4U	218	CYS	CA-C-N	6.40	133.77	121.54
1	4U	218	CYS	C-N-CA	6.40	133.77	121.54
1	54	47	ALA	CA-C-O	6.40	128.83	121.47
1	55	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	5g	33	SER	N-CA-C	6.40	117.77	109.64
1	5Q	134	ILE	N-CA-CB	6.40	118.04	110.55
1	5R	186	THR	CB-CA-C	-6.40	100.78	110.90
1	5Y	87	HIS	CA-C-N	6.40	133.90	122.31
1	5Y	87	HIS	C-N-CA	6.40	133.90	122.31
1	6I	42	ALA	N-CA-C	6.40	118.26	111.28
1	6I	50	GLN	N-CA-CB	-6.40	100.71	110.12
1	6X	123	PRO	CB-CA-C	-6.40	103.43	111.56
1	7a	228	ALA	N-CA-C	6.40	120.44	112.24
1	7i	58	THR	N-CA-C	6.40	119.08	111.33
1	7l	119	THR	CA-C-O	6.40	127.33	119.97
1	7y	167	ARG	CA-C-N	6.40	128.76	120.44
1	7y	167	ARG	C-N-CA	6.40	128.76	120.44
1	7O	84	HIS	O-C-N	-6.40	113.82	121.12
1	7O	113	GLU	N-CA-C	6.40	118.34	111.36
1	7S	5	ASN	O-C-N	-6.40	115.08	123.21
1	7S	87	HIS	CB-CG-ND1	6.40	132.30	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	92	GLU	N-CA-C	6.40	123.96	109.81
1	97	16	SER	N-CA-C	6.40	117.87	109.93
1	9e	203	LYS	N-CA-CB	6.40	120.20	110.28
1	9z	49	PRO	CB-CA-C	6.40	122.12	111.56
1	9I	119	THR	CA-C-O	6.40	126.94	119.32
1	9V	110	THR	CA-C-N	6.40	128.76	120.44
1	9V	110	THR	C-N-CA	6.40	128.76	120.44
1	ax	5	ASN	CA-CB-CG	6.40	119.00	112.60
1	aF	230	VAL	O-C-N	-6.40	115.65	122.95
1	aK	76	GLU	N-CA-C	6.40	118.34	111.36
1	aV	64	ALA	CA-C-N	6.40	128.86	120.28
1	aV	64	ALA	C-N-CA	6.40	128.86	120.28
1	bO	33	SER	O-C-N	-6.40	116.98	121.65
1	bQ	141	ILE	CB-CA-C	-6.40	103.50	112.14
1	bR	54	THR	O-C-N	-6.40	115.33	122.12
1	bT	68	MET	CA-C-N	6.40	130.04	120.31
1	bT	68	MET	C-N-CA	6.40	130.04	120.31
1	1b	171	THR	CA-C-N	6.40	129.15	120.38
1	1b	171	THR	C-N-CA	6.40	129.15	120.38
1	cb	103	ASP	CA-C-O	6.40	127.30	120.70
1	d3	168	PHE	CA-CB-CG	-6.40	107.40	113.80
1	dv	39	MET	CA-C-N	6.40	128.76	120.44
1	dv	39	MET	C-N-CA	6.40	128.76	120.44
1	dI	162	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	dN	82	ARG	N-CA-C	6.40	117.92	111.07
1	en	183	ASN	CA-C-O	6.40	127.25	119.31
1	eC	34	PRO	CB-CA-C	6.40	122.12	111.56
1	1s	71	GLU	CA-C-N	6.40	128.86	120.28
1	1s	71	GLU	C-N-CA	6.40	128.86	120.28
1	eN	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	fl	209	ALA	CA-C-O	-6.40	113.62	121.11
1	g3	89	GLY	CA-C-N	6.40	126.43	119.90
1	g3	89	GLY	C-N-CA	6.40	126.43	119.90
1	g7	96	MET	O-C-N	-6.40	115.77	122.94
1	1	87	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	k	153	ILE	N-CA-C	6.40	117.30	109.30
1	O	60	GLY	CA-C-N	6.40	126.84	120.31
1	O	60	GLY	C-N-CA	6.40	126.84	120.31
1	P	114	GLN	CA-C-N	6.40	129.23	120.46
1	P	114	GLN	C-N-CA	6.40	129.23	120.46
1	h6	22	ALA	N-CA-C	6.40	120.35	112.54
1	h6	125	PRO	CA-C-N	6.40	129.56	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	125	PRO	C-N-CA	6.40	129.56	120.53
1	hU	227	LYS	CA-C-O	6.40	127.54	120.63
1	ib	45	GLU	N-CA-C	6.40	118.26	111.28
1	ig	87	HIS	CA-CB-CG	6.40	120.20	113.80
1	ij	41	SER	N-CA-C	6.40	118.25	111.28
1	ir	180	GLU	N-CA-CB	6.40	119.53	110.12
1	iw	201	ILE	N-CA-C	6.40	116.51	110.30
1	ja	120	HIS	CB-CG-CD2	-6.40	122.88	131.20
1	jl	174	ALA	N-CA-CB	-6.40	101.02	110.49
1	jI	167	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	jQ	143	ARG	CA-C-N	6.40	128.86	120.28
1	jQ	143	ARG	C-N-CA	6.40	128.86	120.28
1	jU	166	ASP	CA-C-N	6.40	128.86	120.28
1	jU	166	ASP	C-N-CA	6.40	128.86	120.28
1	k8	172	LEU	O-C-N	-6.40	114.73	122.22
1	kh	205	LEU	O-C-N	6.40	128.66	122.07
1	kj	224	PRO	N-CA-C	6.40	125.65	112.47
1	kk	84	HIS	CB-CA-C	-6.40	102.79	110.15
1	24	100	ARG	CA-C-N	6.40	126.92	119.94
1	24	100	ARG	C-N-CA	6.40	126.92	119.94
1	ly	101	GLY	CA-C-N	6.40	128.86	120.28
1	ly	101	GLY	C-N-CA	6.40	128.86	120.28
1	lA	4	GLN	CA-C-N	6.40	128.86	120.28
1	lA	4	GLN	C-N-CA	6.40	128.86	120.28
1	lF	44	SER	O-C-N	-6.40	114.48	122.35
1	lG	103	ASP	CA-C-N	6.40	128.62	120.56
1	lG	103	ASP	C-N-CA	6.40	128.62	120.56
1	2c	5	ASN	N-CA-CB	6.40	119.63	110.16
1	2s	121	ASN	CA-C-O	-6.40	114.60	119.59
1	38	216	THR	N-CA-C	-6.40	105.34	113.02
1	3q	34	PRO	CA-C-N	6.40	129.50	120.28
1	3q	34	PRO	C-N-CA	6.40	129.50	120.28
1	3B	75	GLU	CA-C-O	-6.40	114.10	120.82
1	3K	89	GLY	N-CA-C	6.40	125.40	112.34
1	44	167	ARG	CA-C-N	6.40	128.86	120.28
1	44	167	ARG	C-N-CA	6.40	128.86	120.28
1	4r	87	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	4w	126	VAL	N-CA-C	6.40	117.15	110.62
1	4R	50	GLN	O-C-N	-6.40	115.34	122.12
1	54	152	ASP	CA-CB-CG	-6.40	106.20	112.60
1	5a	129	ILE	N-CA-C	6.40	116.56	110.42
1	5v	39	MET	N-CA-C	6.40	118.79	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5x	63	GLN	N-CA-C	6.40	120.35	112.54
1	62	35	GLU	CA-C-N	6.40	128.86	120.60
1	62	35	GLU	C-N-CA	6.40	128.86	120.60
1	64	166	ASP	CA-C-N	6.40	129.18	120.54
1	64	166	ASP	C-N-CA	6.40	129.18	120.54
1	67	135	ILE	N-CA-C	6.40	117.15	110.62
1	6b	219	GLN	N-CA-C	6.40	119.64	110.10
1	6d	117	TRP	CA-C-O	6.40	127.25	119.38
1	6j	59	VAL	N-CA-CB	6.40	117.70	110.72
1	6j	82	ARG	CB-CG-CD	6.40	126.02	111.30
1	6q	142	VAL	N-CA-C	6.40	116.56	110.42
1	6J	5	ASN	CA-CB-CG	6.40	119.00	112.60
1	6J	181	VAL	O-C-N	-6.40	115.66	121.87
1	7H	17	PRO	N-CA-C	-6.40	105.86	113.86
1	8n	117	TRP	N-CA-C	6.40	118.26	111.28
1	8M	121	ASN	O-C-N	-6.40	112.57	121.47
1	8U	86	VAL	N-CA-C	6.40	117.07	108.11
1	9G	143	ARG	N-CA-C	6.40	118.26	111.28
1	9J	41	SER	CA-C-N	6.40	128.76	120.44
1	9J	41	SER	C-N-CA	6.40	128.76	120.44
1	a8	72	THR	CA-C-N	6.40	128.63	120.56
1	a8	72	THR	C-N-CA	6.40	128.63	120.56
1	aI	120	HIS	ND1-CE1-NE2	6.40	114.80	108.40
1	bp	19	THR	N-CA-C	6.40	118.26	111.28
1	1a	211	LEU	O-C-N	6.40	128.66	122.07
1	c2	52	LEU	CA-C-N	6.40	128.86	120.28
1	c2	52	LEU	C-N-CA	6.40	128.86	120.28
1	ce	16	SER	CA-C-O	6.40	125.09	119.71
1	co	134	ILE	CA-C-N	6.40	129.23	120.46
1	co	134	ILE	C-N-CA	6.40	129.23	120.46
1	cM	37	ILE	N-CA-C	6.40	120.03	112.35
1	cP	203	LYS	CA-C-O	6.40	127.33	119.97
1	cR	185	MET	CA-C-N	6.40	129.18	120.54
1	cR	185	MET	C-N-CA	6.40	129.18	120.54
1	cS	78	ALA	CA-C-N	6.40	128.86	120.28
1	cS	78	ALA	C-N-CA	6.40	128.86	120.28
1	dg	199	LYS	CA-C-O	-6.40	113.72	120.63
1	1m	148	THR	N-CA-C	-6.40	99.34	109.07
1	dI	186	THR	N-CA-C	6.40	118.26	111.28
1	dM	161	PHE	N-CA-C	6.40	118.26	111.28
1	1n	10	MET	N-CA-C	6.40	124.43	110.80
1	dS	6	LEU	O-C-N	6.40	129.45	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	el	131	LYS	CA-C-N	6.40	129.50	120.28
1	el	131	LYS	C-N-CA	6.40	129.50	120.28
1	ep	120	HIS	CG-CD2-NE2	6.40	113.60	107.20
1	eT	114	GLN	N-CA-C	6.40	118.79	111.11
1	f4	39	MET	N-CA-C	6.40	118.05	111.14
1	fp	190	LEU	N-CA-C	6.40	118.79	111.11
1	fs	128	GLU	CA-C-N	6.40	128.62	120.56
1	fs	128	GLU	C-N-CA	6.40	128.62	120.56
1	fL	45	GLU	O-C-N	-6.40	114.73	122.22
1	fL	210	THR	N-CA-C	6.40	119.51	110.23
1	i	42	ALA	CA-C-N	6.40	129.50	120.28
1	i	42	ALA	C-N-CA	6.40	129.50	120.28
1	v	229	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	4	39	MET	N-CA-C	6.40	118.26	111.28
1	V	164	TYR	CA-C-N	6.40	129.51	120.42
1	V	164	TYR	C-N-CA	6.40	129.51	120.42
1	X	196	PRO	N-CA-C	6.40	125.66	112.47
1	gh	83	LEU	N-CA-C	6.40	120.35	112.54
1	gI	185	MET	N-CA-CB	-6.40	100.69	110.16
1	gO	18	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	gS	201	ILE	CA-C-N	6.40	128.85	120.28
1	gS	201	ILE	C-N-CA	6.40	128.85	120.28
1	gU	101	GLY	O-C-N	-6.40	116.04	122.18
1	hn	66	MET	N-CA-C	6.40	118.25	111.28
1	j0	192	GLN	CA-C-O	6.40	127.33	120.55
1	j2	149	SER	CA-C-N	6.40	131.13	120.64
1	j2	149	SER	C-N-CA	6.40	131.13	120.64
1	j3	18	ARG	CD-NE-CZ	-6.40	115.44	124.40
1	j4	108	THR	O-C-N	-6.40	114.85	122.27
1	jv	213	GLU	N-CA-C	6.40	118.25	111.28
1	k6	92	GLU	CA-C-N	6.40	126.74	119.83
1	k6	92	GLU	C-N-CA	6.40	126.74	119.83
1	kv	215	MET	N-CA-C	6.40	118.79	111.11
1	23	23	TRP	CA-CB-CG	6.40	125.76	113.60
1	kN	24	VAL	N-CA-C	6.40	116.56	110.42
1	2a	117	TRP	CA-C-O	6.40	127.54	120.82
1	2c	84	HIS	N-CA-C	6.40	119.58	110.24
1	2N	6	LEU	N-CA-C	-6.40	99.91	108.74
1	2Q	156	GLY	CA-C-O	-6.40	112.37	121.52
1	2Z	95	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	45	57	ASN	O-C-N	-6.40	113.09	122.43
1	4s	87	HIS	CG-CD2-NE2	6.40	113.60	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4O	7	GLN	CA-C-N	6.40	134.11	121.06
1	4O	7	GLN	C-N-CA	6.40	134.11	121.06
1	59	173	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	5g	202	LEU	N-CA-C	6.40	118.25	111.28
1	65	226	HIS	CA-CB-CG	-6.40	107.40	113.80
1	6r	26	VAL	O-C-N	-6.40	115.64	121.91
1	6y	191	VAL	CB-CA-C	-6.40	102.24	112.16
1	6B	196	PRO	CA-C-N	6.40	129.14	120.44
1	6B	196	PRO	C-N-CA	6.40	129.14	120.44
1	73	179	GLN	N-CA-CB	6.40	120.07	110.22
1	7g	181	VAL	O-C-N	-6.40	115.66	121.87
1	7T	223	GLY	CA-C-N	6.40	126.77	119.92
1	7T	223	GLY	C-N-CA	6.40	126.77	119.92
1	8H	18	ARG	CG-CD-NE	-6.40	97.92	112.00
1	8S	54	THR	CA-C-N	6.40	128.85	120.28
1	8S	54	THR	C-N-CA	6.40	128.85	120.28
1	9J	214	MET	CA-C-N	6.40	132.34	121.14
1	9J	214	MET	C-N-CA	6.40	132.34	121.14
1	av	168	PHE	CB-CG-CD1	-6.40	109.82	120.70
1	17	176	GLN	N-CA-C	6.40	119.51	110.23
1	bi	15	ILE	N-CA-C	6.40	122.65	109.34
1	c0	121	ASN	CA-C-O	-6.40	113.41	119.55
1	cb	114	GLN	N-CA-C	6.40	117.92	111.07
1	cO	62	HIS	ND1-CE1-NE2	6.40	114.80	108.40
1	cO	217	ALA	N-CA-C	6.40	119.52	110.50
1	d1	141	ILE	N-CA-C	6.40	117.15	110.62
1	d4	48	THR	N-CA-C	-6.40	101.78	110.36
1	1j	146	SER	N-CA-C	6.40	117.71	109.65
1	dD	211	LEU	CA-C-N	6.40	129.68	120.79
1	dD	211	LEU	C-N-CA	6.40	129.68	120.79
1	dM	73	ILE	N-CA-C	6.40	117.08	110.36
1	dS	78	ALA	N-CA-C	6.40	118.25	111.28
1	ec	72	THR	O-C-N	-6.40	115.34	122.12
1	ek	148	THR	CA-CB-OG1	6.40	119.20	109.60
1	eF	196	PRO	N-CA-C	6.40	125.65	112.47
1	eV	221	VAL	CA-C-N	6.40	127.42	120.44
1	eV	221	VAL	C-N-CA	6.40	127.42	120.44
1	fu	143	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	fF	210	THR	N-CA-CB	6.40	120.70	110.46
1	b	97	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	g	200	THR	CA-C-O	-6.40	114.03	121.07
1	s	171	THR	CA-C-N	6.40	129.49	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	171	THR	C-N-CA	6.40	129.49	120.28
1	t	18	ARG	CA-C-O	-6.40	113.64	120.42
1	hc	125	PRO	N-CA-CB	-6.40	98.52	102.81
1	he	82	ARG	CA-C-O	-6.40	113.64	120.42
1	hr	188	THR	CA-C-N	6.40	129.09	120.65
1	hr	188	THR	C-N-CA	6.40	129.09	120.65
1	hz	179	GLN	N-CA-C	6.40	118.79	111.11
1	hE	208	ALA	CA-C-N	6.40	130.20	121.05
1	hE	208	ALA	C-N-CA	6.40	130.20	121.05
1	hM	101	GLY	CA-C-N	6.40	129.15	120.38
1	hM	101	GLY	C-N-CA	6.40	129.15	120.38
1	hS	11	VAL	CA-C-O	6.40	128.33	121.04
1	hU	83	LEU	N-CA-C	6.40	118.25	111.28
1	i1	227	LYS	O-C-N	-6.40	114.63	122.82
1	id	139	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	if	70	LYS	N-CA-C	6.40	118.25	111.28
1	if	229	ARG	CB-CA-C	-6.40	100.72	111.02
1	iR	144	MET	CG-SD-CE	-6.40	86.83	100.90
1	1U	124	ILE	CB-CA-C	-6.40	103.42	110.78
1	jm	92	GLU	CA-C-O	-6.40	113.73	120.70
1	jB	133	TRP	O-C-N	-6.40	115.34	122.12
1	jE	94	GLY	CA-C-O	6.40	125.28	118.95
1	jK	163	ASP	CA-C-N	6.40	129.38	120.29
1	jK	163	ASP	C-N-CA	6.40	129.38	120.29
1	jY	133	TRP	CB-CG-CD1	6.40	136.50	126.90
1	k4	115	ILE	N-CA-C	6.40	117.14	110.62
1	20	7	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	kf	169	TYR	CA-C-N	6.40	128.85	120.28
1	kf	169	TYR	C-N-CA	6.40	128.85	120.28
1	km	4	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	km	176	GLN	CA-C-O	6.40	126.73	119.18
1	ku	33	SER	CA-C-O	-6.40	113.81	120.02
1	ku	161	PHE	CA-C-N	6.40	128.85	120.28
1	ku	161	PHE	C-N-CA	6.40	128.85	120.28
1	kD	117	TRP	N-CA-C	6.40	117.92	111.07
1	kV	71	GLU	CA-C-O	6.40	127.33	120.55
1	l1	197	ASP	CA-C-N	6.40	128.85	120.28
1	l1	197	ASP	C-N-CA	6.40	128.85	120.28
1	lh	87	HIS	O-C-N	-6.40	115.77	123.13
1	lM	52	LEU	O-C-N	-6.40	114.40	122.27
1	2f	201	ILE	O-C-N	6.40	128.42	121.83
1	2s	157	PRO	N-CA-CB	6.40	109.97	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	31	ALA	N-CA-C	6.40	118.89	108.08
1	3D	67	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	4n	200	THR	CA-C-O	6.40	127.33	120.55
1	4B	214	MET	CA-C-N	6.40	129.37	120.29
1	4B	214	MET	C-N-CA	6.40	129.37	120.29
1	4T	82	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	59	40	PHE	CA-CB-CG	-6.40	107.40	113.80
1	5v	26	VAL	N-CA-C	6.40	117.08	110.36
1	5E	154	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	5O	143	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	5V	41	SER	CA-C-N	6.40	128.85	120.28
1	5V	41	SER	C-N-CA	6.40	128.85	120.28
1	60	67	GLN	O-C-N	-6.40	115.34	122.12
1	71	170	LYS	CA-C-N	6.40	128.85	120.28
1	71	170	LYS	C-N-CA	6.40	128.85	120.28
1	79	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	7g	54	THR	CA-CB-CG2	6.40	121.38	110.50
1	7x	5	ASN	N-CA-C	6.40	121.97	114.04
1	7y	84	HIS	CG-CD2-NE2	6.40	113.60	107.20
1	7Q	172	LEU	CA-C-N	6.40	128.85	120.28
1	7Q	172	LEU	C-N-CA	6.40	128.85	120.28
1	82	110	THR	O-C-N	-6.40	115.78	122.94
1	82	161	PHE	N-CA-C	-6.40	104.40	111.82
1	8c	179	GLN	O-C-N	-6.40	115.44	122.09
1	8d	128	GLU	N-CA-C	6.40	118.25	111.28
1	8g	43	LEU	CA-C-O	6.40	127.23	119.49
1	8s	6	LEU	N-CA-CB	6.40	119.29	110.01
1	8J	64	ALA	CA-C-O	6.40	127.29	120.70
1	8L	117	TRP	O-C-N	-6.40	114.86	122.15
1	8T	28	GLU	N-CA-C	6.40	117.92	111.07
1	97	205	LEU	CA-C-N	6.40	131.91	121.87
1	97	205	LEU	C-N-CA	6.40	131.91	121.87
1	98	71	GLU	N-CA-C	6.40	118.25	111.28
1	98	128	GLU	N-CA-CB	6.40	119.54	109.82
1	99	176	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	9j	119	THR	CA-C-N	6.40	131.68	120.87
1	9j	119	THR	C-N-CA	6.40	131.68	120.87
1	9w	26	VAL	N-CA-C	6.40	117.14	110.62
1	9A	88	ALA	O-C-N	-6.40	114.90	122.96
1	9C	75	GLU	O-C-N	-6.40	115.48	122.07
1	9F	126	VAL	N-CA-C	6.40	117.91	110.62
1	9U	112	GLN	OE1-CD-NE2	-6.40	116.20	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ab	56	LEU	N-CA-C	6.40	117.92	111.07
1	ar	83	LEU	N-CA-C	6.40	119.56	111.69
1	aT	47	ALA	CA-C-O	6.40	127.59	120.43
1	b4	55	MET	N-CA-C	6.40	117.92	111.07
1	b6	103	ASP	CA-CB-CG	6.40	119.00	112.60
1	bf	5	ASN	N-CA-C	6.40	119.63	110.10
1	bf	171	THR	CA-C-O	-6.40	113.77	120.55
1	bi	55	MET	O-C-N	-6.40	115.48	122.07
1	bp	202	LEU	N-CA-C	6.40	119.07	111.33
1	bq	186	THR	CA-C-N	6.40	128.76	120.44
1	bq	186	THR	C-N-CA	6.40	128.76	120.44
1	bv	126	VAL	CA-C-N	6.40	127.22	119.99
1	bv	126	VAL	C-N-CA	6.40	127.22	119.99
1	bP	110	THR	CA-CB-OG1	6.40	119.20	109.60
1	bX	89	GLY	CA-C-O	-6.40	116.25	122.46
1	cj	63	GLN	N-CA-C	6.40	119.07	111.71
1	cw	86	VAL	N-CA-C	6.40	118.02	108.23
1	cy	55	MET	N-CA-C	6.40	117.92	111.07
1	1h	111	LEU	CA-C-N	6.40	128.76	120.44
1	1h	111	LEU	C-N-CA	6.40	128.76	120.44
1	1k	193	ASN	CA-CB-CG	-6.40	106.20	112.60
1	dp	78	ALA	CA-C-N	6.40	128.85	120.28
1	dp	78	ALA	C-N-CA	6.40	128.85	120.28
1	dF	87	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	dJ	43	LEU	N-CA-C	-6.40	105.34	113.02
1	er	54	THR	CA-C-N	6.40	128.76	120.44
1	er	54	THR	C-N-CA	6.40	128.76	120.44
1	ex	35	GLU	N-CA-C	6.40	119.07	111.71
1	eL	23	TRP	O-C-N	-6.40	115.34	122.12
1	ff	167	ARG	N-CA-C	6.40	117.91	111.07
1	fq	108	THR	CB-CA-C	-6.40	99.36	110.17
1	fw	77	ALA	N-CA-C	6.40	118.25	111.28
1	fC	120	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	g1	156	GLY	O-C-N	-6.40	115.37	121.77
1	b	154	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	q	132	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	Q	132	ARG	NE-CZ-NH1	6.40	127.90	121.50
1	R	79	GLU	CA-C-N	6.40	129.38	120.29
1	R	79	GLU	C-N-CA	6.40	129.38	120.29
1	8	190	LEU	N-CA-C	6.40	121.86	111.37
1	gI	112	GLN	CA-C-N	6.40	128.85	120.28
1	gI	112	GLN	C-N-CA	6.40	128.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	25	LYS	O-C-N	-6.40	115.48	122.07
1	1I	11	VAL	O-C-N	-6.40	114.58	122.57
1	hl	120	HIS	CA-CB-CG	6.40	120.20	113.80
1	ho	51	ASP	CA-C-N	6.40	128.85	120.28
1	ho	51	ASP	C-N-CA	6.40	128.85	120.28
1	hs	33	SER	CA-C-O	-6.40	114.82	120.19
1	hI	103	ASP	CA-CB-CG	-6.40	106.20	112.60
1	iA	139	ASN	N-CA-C	6.40	118.79	111.11
1	1T	178	SER	N-CA-C	6.40	119.50	110.23
1	j3	12	HIS	CG-CD2-NE2	6.40	113.60	107.20
1	jf	190	LEU	CA-C-O	-6.40	113.77	120.55
1	jI	48	THR	O-C-N	-6.40	114.37	121.53
1	jM	87	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
1	22	172	LEU	N-CA-C	6.40	118.25	111.28
1	kv	163	ASP	N-CA-C	6.40	117.91	111.07
1	lf	113	GLU	N-CA-C	6.40	118.25	111.28
1	ly	162	ARG	CA-C-O	6.40	127.33	120.10
1	lP	80	TRP	CD2-CE3-CZ3	6.40	126.92	118.60
1	2c	132	ARG	NE-CZ-NH2	6.40	124.96	119.20
1	2O	192	GLN	N-CA-C	6.40	120.34	112.54
1	32	78	ALA	CA-C-N	6.40	129.18	120.54
1	32	78	ALA	C-N-CA	6.40	129.18	120.54
1	3f	36	VAL	CA-C-N	-6.40	115.21	120.33
1	3f	36	VAL	C-N-CA	-6.40	115.21	120.33
1	3l	219	GLN	OE1-CD-NE2	-6.40	116.20	122.60
1	3I	97	ARG	NE-CZ-NH2	-6.40	113.44	119.20
1	3S	162	ARG	CA-C-N	6.40	128.75	120.44
1	3S	162	ARG	C-N-CA	6.40	128.75	120.44
1	4i	73	ILE	O-C-N	-6.40	115.62	121.89
1	4p	200	THR	CA-C-N	6.40	128.62	120.56
1	4p	200	THR	C-N-CA	6.40	128.62	120.56
1	4T	195	ASN	N-CA-CB	6.40	119.69	110.03
1	6l	165	VAL	CA-CB-CG1	6.40	121.27	110.40
1	7l	163	ASP	CA-C-N	6.40	129.17	120.54
1	7l	163	ASP	C-N-CA	6.40	129.17	120.54
1	8i	183	ASN	OD1-CG-ND2	-6.40	116.20	122.60
1	8x	198	CYS	N-CA-C	6.40	118.25	111.28
1	8H	229	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	8N	155	GLN	O-C-N	-6.40	114.94	122.81
1	8O	152	ASP	CA-C-N	6.40	129.32	120.49
1	8O	152	ASP	C-N-CA	6.40	129.32	120.49
1	9k	87	HIS	N-CA-CB	6.40	119.71	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	173	ARG	NH1-CZ-NH2	-6.40	110.98	119.30
1	9I	34	PRO	CA-C-N	6.40	129.49	120.28
1	9I	34	PRO	C-N-CA	6.40	129.49	120.28
1	ao	42	ALA	N-CA-C	6.40	119.24	111.82
1	aQ	6	LEU	CA-C-O	6.40	127.54	120.82
1	cB	67	GLN	O-C-N	-6.40	115.34	122.12
1	d5	16	SER	O-C-N	-6.40	114.50	121.53
1	dp	84	HIS	CA-CB-CG	6.40	120.20	113.80
1	dq	144	MET	N-CA-C	6.40	118.13	111.03
1	eI	107	THR	CA-C-O	-6.40	114.10	120.82
1	gx	132	ARG	CA-C-N	6.39	128.75	120.44
1	gx	132	ARG	C-N-CA	6.39	128.75	120.44
1	1F	57	ASN	CB-CG-OD1	6.39	133.59	120.80
1	gU	169	TYR	N-CA-C	6.39	117.91	111.07
1	hd	184	TRP	CB-CG-CD2	6.39	135.75	126.80
1	hn	105	ALA	N-CA-C	-6.39	105.35	113.02
1	hy	70	LYS	CB-CA-C	-6.39	100.84	110.88
1	hD	160	PRO	N-CA-CB	6.39	109.96	103.25
1	hP	159	GLU	CA-C-O	6.39	126.22	120.34
1	i2	184	TRP	CA-C-N	6.39	129.49	120.28
1	i2	184	TRP	C-N-CA	6.39	129.49	120.28
1	ir	120	HIS	ND1-CE1-NE2	6.39	114.80	108.40
1	iH	208	ALA	CA-C-N	6.39	132.61	120.97
1	iH	208	ALA	C-N-CA	6.39	132.61	120.97
1	iI	171	THR	O-C-N	-6.39	114.41	122.27
1	iQ	9	GLN	CB-CG-CD	6.39	123.47	112.60
1	j1	192	GLN	N-CA-C	6.39	119.07	111.33
1	jV	87	HIS	CB-CG-CD2	-6.39	122.89	131.20
1	ka	41	SER	N-CA-CB	6.39	119.25	109.91
1	kc	226	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	22	200	THR	CA-C-N	6.39	128.62	120.56
1	22	200	THR	C-N-CA	6.39	128.62	120.56
1	kA	157	PRO	N-CD-CG	6.39	112.79	103.20
1	23	108	THR	CA-C-N	6.39	132.53	122.94
1	23	108	THR	C-N-CA	6.39	132.53	122.94
1	kN	39	MET	CA-C-N	6.39	128.85	120.28
1	kN	39	MET	C-N-CA	6.39	128.85	120.28
1	kU	137	GLY	O-C-N	-6.39	115.80	122.13
1	lb	226	HIS	ND1-CE1-NE2	6.39	114.80	108.40
1	ld	52	LEU	O-C-N	-6.39	114.86	122.15
1	lr	195	ASN	CA-CB-CG	6.39	118.99	112.60
1	lO	166	ASP	CA-CB-CG	-6.39	106.20	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	62	HIS	O-C-N	-6.39	114.51	123.01
1	2t	54	THR	N-CA-C	6.39	118.78	111.11
1	2t	120	HIS	CA-CB-CG	6.39	120.19	113.80
1	2N	162	ARG	NH1-CZ-NH2	-6.39	110.99	119.30
1	2O	70	LYS	CA-C-N	6.39	128.85	120.28
1	2O	70	LYS	C-N-CA	6.39	128.85	120.28
1	2U	27	VAL	O-C-N	-6.39	114.57	121.80
1	3p	22	ALA	CA-C-N	6.39	129.14	120.44
1	3p	22	ALA	C-N-CA	6.39	129.14	120.44
1	3C	199	LYS	CA-C-N	6.39	128.75	120.44
1	3C	199	LYS	C-N-CA	6.39	128.75	120.44
1	40	226	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	4i	8	GLY	CA-C-O	6.39	126.11	119.01
1	4j	58	THR	CA-C-O	6.39	126.79	119.18
1	4o	39	MET	CB-CA-C	6.39	120.92	110.88
1	57	154	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	5d	229	ARG	CB-CG-CD	6.39	126.01	111.30
1	5u	130	TYR	CA-C-N	6.39	128.85	120.28
1	5u	130	TYR	C-N-CA	6.39	128.85	120.28
1	5w	36	VAL	N-CA-C	6.39	117.14	110.62
1	5C	150	ILE	CA-C-N	6.39	129.49	120.28
1	5C	150	ILE	C-N-CA	6.39	129.49	120.28
1	5L	183	ASN	CA-CB-CG	6.39	119.00	112.60
1	5S	150	ILE	O-C-N	-6.39	114.58	121.80
1	6s	81	ASP	CA-CB-CG	6.39	119.00	112.60
1	6v	50	GLN	CA-C-N	6.39	129.14	120.44
1	6v	50	GLN	C-N-CA	6.39	129.14	120.44
1	6E	9	GLN	CB-CA-C	6.39	120.34	109.72
1	6I	220	GLY	N-CA-C	-6.39	106.61	114.92
1	7l	178	SER	CA-C-N	6.39	131.52	120.58
1	7l	178	SER	C-N-CA	6.39	131.52	120.58
1	7u	97	ARG	NE-CZ-NH2	6.39	124.96	119.20
1	7G	24	VAL	CA-C-O	6.39	127.95	121.17
1	7L	53	ASN	CA-C-N	6.39	128.75	120.44
1	7L	53	ASN	C-N-CA	6.39	128.75	120.44
1	7Q	59	VAL	CB-CA-C	-6.39	103.69	111.88
1	7Y	59	VAL	O-C-N	-6.39	114.58	122.57
1	8F	78	ALA	N-CA-C	6.39	119.06	111.71
1	8R	48	THR	CA-C-N	6.39	127.83	119.84
1	8R	48	THR	C-N-CA	6.39	127.83	119.84
1	93	131	LYS	N-CA-C	6.39	118.25	111.28
1	94	10	MET	CA-C-N	6.39	132.73	122.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	94	10	MET	C-N-CA	6.39	132.73	122.50
1	9t	201	ILE	N-CA-C	6.39	116.56	110.42
1	9J	14	ALA	O-C-N	-6.39	115.56	122.85
1	9M	87	HIS	CA-C-O	6.39	127.49	120.71
1	Y	162	ARG	NE-CZ-NH2	-6.39	113.44	119.20
1	a7	5	ASN	O-C-N	-6.39	115.15	121.93
1	ai	189	LEU	CA-C-O	6.39	127.33	120.55
1	aq	134	ILE	O-C-N	-6.39	115.64	121.91
1	au	173	ARG	NE-CZ-NH2	-6.39	113.44	119.20
1	aB	71	GLU	O-C-N	-6.39	115.34	122.12
1	15	22	ALA	CA-C-N	6.39	129.37	120.29
1	15	22	ALA	C-N-CA	6.39	129.37	120.29
1	aZ	53	ASN	CA-CB-CG	-6.39	106.21	112.60
1	bi	12	HIS	ND1-CE1-NE2	6.39	114.80	108.40
1	bq	139	ASN	O-C-N	-6.39	113.86	122.43
1	bO	133	TRP	CA-C-N	6.39	129.55	120.53
1	bO	133	TRP	C-N-CA	6.39	129.55	120.53
1	bW	193	ASN	CA-CB-CG	-6.39	106.21	112.60
1	c1	59	VAL	O-C-N	-6.39	115.82	122.66
1	c1	168	PHE	CA-C-O	6.39	128.10	121.07
1	cb	122	PRO	CA-C-N	6.39	126.42	119.90
1	cb	122	PRO	C-N-CA	6.39	126.42	119.90
1	1e	134	ILE	CA-C-N	6.39	129.22	120.46
1	1e	134	ILE	C-N-CA	6.39	129.22	120.46
1	cD	125	PRO	N-CA-CB	-6.39	96.54	103.25
1	cO	86	VAL	CA-C-N	6.39	131.63	121.66
1	cO	86	VAL	C-N-CA	6.39	131.63	121.66
1	cP	31	ALA	CA-C-N	6.39	130.49	121.02
1	cP	31	ALA	C-N-CA	6.39	130.49	121.02
1	d9	154	ARG	NE-CZ-NH2	-6.39	113.44	119.20
1	dF	119	THR	CA-CB-OG1	6.39	119.19	109.60
1	dF	177	ALA	O-C-N	-6.39	115.56	122.85
1	dI	198	CYS	N-CA-C	6.39	117.91	111.07
1	dO	71	GLU	O-C-N	-6.39	115.34	122.12
1	e1	114	GLN	CA-C-N	6.39	129.50	120.42
1	e1	114	GLN	C-N-CA	6.39	129.50	120.42
1	eu	185	MET	N-CA-C	6.39	117.91	111.07
1	eF	105	ALA	N-CA-C	6.39	120.94	113.20
1	eO	27	VAL	CA-C-N	6.39	128.85	120.28
1	eO	27	VAL	C-N-CA	6.39	128.85	120.28
1	eP	161	PHE	CA-CB-CG	6.39	120.19	113.80
1	1t	165	VAL	CA-C-N	6.39	128.75	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1t	165	VAL	C-N-CA	6.39	128.75	120.44
1	eU	88	ALA	N-CA-C	6.39	119.49	109.96
1	eX	85	PRO	CA-C-N	6.39	130.44	120.34
1	eX	85	PRO	C-N-CA	6.39	130.44	120.34
1	fl	16	SER	N-CA-C	6.39	118.69	109.48
1	f	5	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	r	169	TYR	CB-CG-CD1	6.39	130.39	120.80
1	O	117	TRP	CB-CG-CD2	-6.39	117.85	126.80
1	gn	120	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	gx	100	ARG	O-C-N	-6.39	115.56	122.85
1	gH	203	LYS	CA-C-N	6.39	128.85	120.28
1	gH	203	LYS	C-N-CA	6.39	128.85	120.28
1	gZ	124	ILE	CA-C-N	6.39	127.83	119.84
1	gZ	124	ILE	C-N-CA	6.39	127.83	119.84
1	h2	137	GLY	CA-C-O	-6.39	113.25	120.09
1	hw	151	LEU	CA-C-N	6.39	128.84	120.28
1	hw	151	LEU	C-N-CA	6.39	128.84	120.28
1	hD	71	GLU	CA-C-N	6.39	128.75	120.44
1	hD	71	GLU	C-N-CA	6.39	128.75	120.44
1	hH	51	ASP	CA-CB-CG	-6.39	106.21	112.60
1	1L	120	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	ie	191	VAL	O-C-N	-6.39	115.55	121.94
1	iA	162	ARG	N-CA-C	6.39	119.07	111.33
1	iD	179	GLN	CA-C-O	-6.39	112.88	120.10
1	iT	88	ALA	CA-C-O	6.39	126.44	119.15
1	j3	168	PHE	CA-CB-CG	6.39	120.19	113.80
1	jQ	16	SER	O-C-N	-6.39	114.64	121.42
1	jR	80	TRP	CB-CG-CD2	6.39	135.75	126.80
1	kA	3	VAL	N-CA-C	6.39	117.31	107.78
1	kS	170	LYS	O-C-N	-6.39	115.19	122.09
1	kY	146	SER	CA-C-O	-6.39	112.47	118.73
1	lj	82	ARG	NE-CZ-NH2	-6.39	113.45	119.20
1	lt	150	ILE	CA-C-O	6.39	127.70	121.05
1	lz	41	SER	N-CA-C	6.39	118.25	111.28
1	2r	168	PHE	CA-CB-CG	6.39	120.19	113.80
1	2s	68	MET	CA-C-O	6.39	127.33	120.55
1	2t	52	LEU	N-CA-C	6.39	118.33	111.36
1	3m	110	THR	O-C-N	-6.39	114.79	122.65
1	3t	113	GLU	CA-C-O	6.39	126.63	119.41
1	3y	12	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	3H	65	ALA	N-CA-C	6.39	119.23	111.82
1	4n	202	LEU	N-CA-C	6.39	120.34	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4x	203	LYS	CA-C-N	6.39	129.13	120.44
1	4x	203	LYS	C-N-CA	6.39	129.13	120.44
1	4W	55	MET	O-C-N	-6.39	115.34	122.12
1	5a	227	LYS	O-C-N	-6.39	114.66	122.20
1	5o	114	GLN	N-CA-CB	6.39	119.28	110.01
1	5u	215	MET	CG-SD-CE	-6.39	86.84	100.90
1	5F	64	ALA	CA-C-N	6.39	128.85	120.28
1	5F	64	ALA	C-N-CA	6.39	128.85	120.28
1	5P	200	THR	O-C-N	-6.39	115.34	122.12
1	64	140	LYS	CA-C-N	6.39	130.78	120.30
1	64	140	LYS	C-N-CA	6.39	130.78	120.30
1	6a	162	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	6e	182	LYS	N-CA-C	6.39	118.25	111.28
1	6g	214	MET	N-CA-C	6.39	119.06	111.71
1	7d	68	MET	N-CA-CB	-6.39	100.72	110.12
1	7y	141	ILE	CA-C-O	-6.39	114.39	121.17
1	7E	21	ASN	CA-C-O	6.39	127.53	120.82
1	7N	115	ILE	CA-C-N	6.39	127.22	119.99
1	7N	115	ILE	C-N-CA	6.39	127.22	119.99
1	8e	130	TYR	O-C-N	-6.39	115.34	122.12
1	8S	183	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	8W	33	SER	CA-C-O	-6.39	113.34	120.25
1	9l	195	ASN	CA-C-N	6.39	127.83	119.84
1	9l	195	ASN	C-N-CA	6.39	127.83	119.84
1	9p	154	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	Y	206	GLY	O-C-N	-6.39	115.38	121.77
1	a3	27	VAL	N-CA-CB	6.39	119.23	110.54
1	aj	158	LYS	CA-C-N	6.39	129.34	120.65
1	aj	158	LYS	C-N-CA	6.39	129.34	120.65
1	aA	72	THR	CA-C-N	6.39	128.85	120.60
1	aA	72	THR	C-N-CA	6.39	128.85	120.60
1	aL	148	THR	N-CA-CB	6.39	121.29	110.49
1	aN	25	LYS	N-CA-C	6.39	118.78	111.11
1	aP	50	GLN	O-C-N	-6.39	115.49	122.07
1	b3	61	GLY	CA-C-N	6.39	131.20	122.19
1	b3	61	GLY	C-N-CA	6.39	131.20	122.19
1	bZ	228	ALA	CA-C-O	6.39	128.90	121.87
1	c9	66	MET	CA-C-N	6.39	128.85	120.28
1	c9	66	MET	C-N-CA	6.39	128.85	120.28
1	cu	198	CYS	CA-C-N	6.39	128.85	120.28
1	cu	198	CYS	C-N-CA	6.39	128.85	120.28
1	cE	128	GLU	CA-C-N	6.39	128.61	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cE	128	GLU	C-N-CA	6.39	128.61	120.56
1	d5	81	ASP	O-C-N	-6.39	114.74	122.22
1	df	80	TRP	CB-CG-CD2	6.39	135.75	126.80
1	dW	114	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	1o	228	ALA	N-CA-C	6.39	119.04	110.35
1	eD	87	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	fa	173	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	1w	135	ILE	N-CA-C	6.39	117.14	110.62
1	fl	23	TRP	CB-CG-CD1	-6.39	117.31	126.90
1	fl	87	HIS	CA-CB-CG	6.39	120.19	113.80
1	fn	137	GLY	O-C-N	-6.39	116.05	122.19
1	fT	81	ASP	CA-CB-CG	6.39	118.99	112.60
1	s	229	ARG	N-CA-C	6.39	118.89	109.24
1	gs	101	GLY	CA-C-N	6.39	129.37	120.29
1	gs	101	GLY	C-N-CA	6.39	129.37	120.29
1	1F	96	MET	CA-C-N	6.39	133.75	121.54
1	1F	96	MET	C-N-CA	6.39	133.75	121.54
1	1G	134	ILE	N-CA-C	6.39	117.14	110.62
1	h9	193	ASN	O-C-N	-6.39	114.40	122.26
1	hG	50	GLN	CA-C-O	-6.39	112.88	120.10
1	hK	143	ARG	CG-CD-NE	-6.39	97.94	112.00
1	hY	16	SER	N-CA-C	6.39	117.95	109.83
1	hY	48	THR	N-CA-CB	6.39	116.71	109.49
1	iw	39	MET	N-CA-C	6.39	118.25	111.28
1	j4	223	GLY	CA-C-N	6.39	126.77	119.93
1	j4	223	GLY	C-N-CA	6.39	126.77	119.93
1	jq	177	ALA	CA-C-N	6.39	130.40	120.75
1	jq	177	ALA	C-N-CA	6.39	130.40	120.75
1	kg	40	PHE	CA-C-N	6.39	129.09	120.65
1	kg	40	PHE	C-N-CA	6.39	129.09	120.65
1	kv	38	PRO	N-CA-CB	6.39	110.36	103.33
1	ls	106	GLY	CA-C-O	6.39	125.92	119.27
1	2b	145	TYR	N-CA-C	6.39	120.69	113.02
1	3q	13	GLN	O-C-N	-6.39	114.92	123.23
1	48	66	MET	N-CA-C	6.39	119.06	111.33
1	4e	227	LYS	CA-CB-CG	6.39	126.88	114.10
1	4H	5	ASN	O-C-N	-6.39	115.75	123.16
1	5T	22	ALA	O-C-N	6.39	129.44	122.15
1	6J	168	PHE	CA-C-N	6.39	129.37	120.29
1	6J	168	PHE	C-N-CA	6.39	129.37	120.29
1	6Q	91	ILE	CA-C-N	6.39	129.34	120.65
1	6Q	91	ILE	C-N-CA	6.39	129.34	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7E	110	THR	CA-CB-OG1	6.39	119.19	109.60
1	7Y	149	SER	CA-C-N	6.39	129.22	120.46
1	7Y	149	SER	C-N-CA	6.39	129.22	120.46
1	7Y	226	HIS	CG-CD2-NE2	6.39	113.59	107.20
1	8p	164	TYR	CB-CA-C	6.39	120.91	110.88
1	9d	145	TYR	CA-C-O	6.39	127.04	119.56
1	a6	14	ALA	N-CA-C	6.39	119.25	110.24
1	a6	18	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	ak	12	HIS	N-CA-C	6.39	120.48	110.32
1	b7	195	ASN	CA-C-N	6.39	125.62	118.97
1	b7	195	ASN	C-N-CA	6.39	125.62	118.97
1	bg	121	ASN	O-C-N	-6.39	115.70	121.39
1	bi	142	VAL	N-CA-C	6.39	116.56	110.42
1	bR	155	GLN	N-CA-C	6.39	119.62	110.10
1	cm	72	THR	CA-C-O	-6.39	114.11	120.82
1	cq	123	PRO	O-C-N	-6.39	115.43	123.10
1	cy	184	TRP	O-C-N	-6.39	114.86	122.15
1	dj	71	GLU	O-C-N	-6.39	115.35	122.12
1	du	89	GLY	CA-C-N	6.39	127.83	119.84
1	du	89	GLY	C-N-CA	6.39	127.83	119.84
1	en	166	ASP	CA-CB-CG	-6.39	106.21	112.60
1	1r	63	GLN	N-CA-C	6.39	118.33	111.36
1	ez	72	THR	CA-C-N	6.39	129.22	120.46
1	ez	72	THR	C-N-CA	6.39	129.22	120.46
1	eJ	78	ALA	CA-C-N	6.39	129.37	120.29
1	eJ	78	ALA	C-N-CA	6.39	129.37	120.29
1	eJ	78	ALA	N-CA-C	6.39	118.25	111.28
1	fj	98	GLU	O-C-N	-6.39	114.27	121.43
1	fv	4	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	fB	154	ARG	NE-CZ-NH2	6.39	124.95	119.20
1	fT	17	PRO	N-CA-CB	-6.39	96.49	103.39
1	p	159	GLU	CA-C-N	6.39	126.77	119.93
1	p	159	GLU	C-N-CA	6.39	126.77	119.93
1	L	68	MET	CA-C-N	6.39	129.09	120.65
1	L	68	MET	C-N-CA	6.39	129.09	120.65
1	gv	139	ASN	N-CA-CB	-6.39	100.38	110.28
1	gz	226	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	gB	77	ALA	N-CA-C	6.39	118.32	111.36
1	1E	70	LYS	O-C-N	-6.39	115.35	122.12
1	h1	131	LYS	CA-C-N	6.39	128.84	120.28
1	h1	131	LYS	C-N-CA	6.39	128.84	120.28
1	h9	226	HIS	CE1-NE2-CD2	-6.39	102.61	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i1	155	GLN	N-CA-C	6.39	119.04	110.35
1	i2	133	TRP	CA-C-N	6.39	128.84	120.60
1	i2	133	TRP	C-N-CA	6.39	128.84	120.60
1	i5	15	ILE	O-C-N	-6.39	116.15	122.67
1	id	13	GLN	N-CA-C	-6.39	99.70	109.41
1	id	55	MET	N-CA-C	6.39	117.91	111.07
1	iq	25	LYS	N-CA-C	6.39	117.91	111.07
1	iK	5	ASN	CA-CB-CG	-6.39	106.21	112.60
1	iU	162	ARG	NH1-CZ-NH2	-6.39	110.99	119.30
1	iU	229	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	jj	131	LYS	CA-C-N	6.39	128.84	120.28
1	jj	131	LYS	C-N-CA	6.39	128.84	120.28
1	1V	87	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	1Y	187	GLU	N-CA-C	6.39	118.32	111.36
1	jZ	15	ILE	N-CA-CB	6.39	120.10	110.13
1	k3	132	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	20	179	GLN	CG-CD-NE2	6.39	125.98	116.40
1	kf	105	ALA	CA-C-O	6.39	127.01	119.28
1	kz	183	ASN	N-CA-C	6.39	117.91	111.07
1	kF	148	THR	CA-CB-OG1	6.39	119.18	109.60
1	kL	18	ARG	NE-CZ-NH2	-6.39	113.45	119.20
1	kM	126	VAL	CA-C-N	6.39	126.90	119.94
1	kM	126	VAL	C-N-CA	6.39	126.90	119.94
1	24	198	CYS	O-C-N	-6.39	115.49	122.07
1	kQ	68	MET	N-CA-CB	6.39	119.28	110.01
1	kR	50	GLN	N-CA-C	6.39	118.24	111.28
1	26	23	TRP	CA-C-O	6.39	127.74	120.90
1	lr	54	THR	CA-C-N	6.39	129.67	120.79
1	lr	54	THR	C-N-CA	6.39	129.67	120.79
1	2B	188	THR	CA-C-N	6.39	128.75	120.44
1	2B	188	THR	C-N-CA	6.39	128.75	120.44
1	2N	96	MET	N-CA-C	6.39	119.30	110.35
1	2U	101	GLY	CA-C-N	6.39	128.75	120.44
1	2U	101	GLY	C-N-CA	6.39	128.75	120.44
1	3d	189	LEU	N-CA-C	6.39	118.32	111.36
1	3m	224	PRO	N-CA-C	6.39	121.68	111.26
1	3I	78	ALA	N-CA-CB	-6.39	100.38	110.28
1	3L	130	TYR	CA-C-O	6.39	127.53	120.82
1	3R	112	GLN	CG-CD-NE2	6.39	125.98	116.40
1	3T	11	VAL	O-C-N	-6.39	115.68	123.03
1	42	92	GLU	N-CA-C	6.39	119.40	110.20
1	4n	10	MET	O-C-N	-6.39	114.03	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4v	113	GLU	N-CA-C	6.39	117.91	111.07
1	4N	68	MET	CA-C-O	6.39	127.53	120.82
1	56	21	ASN	CA-CB-CG	6.39	118.99	112.60
1	5o	126	VAL	CA-C-N	6.39	126.90	119.94
1	5o	126	VAL	C-N-CA	6.39	126.90	119.94
1	5r	137	GLY	CA-C-N	6.39	128.84	120.28
1	5r	137	GLY	C-N-CA	6.39	128.84	120.28
1	5F	28	GLU	O-C-N	-6.39	115.35	122.12
1	6g	32	PHE	CD1-CG-CD2	-6.39	109.02	118.60
1	6m	116	GLY	CA-C-N	6.39	128.75	120.44
1	6m	116	GLY	C-N-CA	6.39	128.75	120.44
1	6M	221	VAL	N-CA-C	6.39	116.54	110.53
1	6U	121	ASN	OD1-CG-ND2	6.39	128.99	122.60
1	6Z	57	ASN	CA-CB-CG	-6.39	106.21	112.60
1	7b	22	ALA	O-C-N	-6.39	115.35	122.12
1	7x	226	HIS	CG-CD2-NE2	6.39	113.59	107.20
1	7B	84	HIS	CG-CD2-NE2	6.39	113.59	107.20
1	7E	153	ILE	N-CA-C	6.39	117.67	109.30
1	7Q	156	GLY	O-C-N	-6.39	115.38	121.77
1	7R	228	ALA	N-CA-C	6.39	119.50	110.23
1	8h	98	GLU	N-CA-C	6.39	117.94	109.83
1	8i	146	SER	N-CA-C	6.39	121.44	112.75
1	8o	39	MET	CA-C-O	6.39	127.19	120.42
1	92	61	GLY	CA-C-O	6.39	126.64	120.57
1	92	181	VAL	N-CA-C	6.39	117.07	110.36
1	94	225	GLY	O-C-N	-6.39	114.39	122.70
1	9d	18	ARG	N-CA-C	6.39	118.33	111.36
1	9d	125	PRO	N-CA-CB	-6.39	97.49	102.28
1	9l	7	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	9A	52	LEU	CA-C-N	6.39	128.84	120.28
1	9A	52	LEU	C-N-CA	6.39	128.84	120.28
1	9E	16	SER	CA-C-O	6.39	124.05	119.32
1	9N	162	ARG	CA-C-O	6.39	127.32	120.55
1	9R	55	MET	O-C-N	-6.39	115.35	122.12
1	9R	120	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	9W	209	ALA	N-CA-CB	-6.39	100.58	109.97
1	ab	113	GLU	N-CA-C	6.39	118.32	111.36
1	af	60	GLY	CA-C-N	6.39	129.37	121.83
1	af	60	GLY	C-N-CA	6.39	129.37	121.83
1	am	64	ALA	CB-CA-C	-6.39	100.19	110.79
1	ao	33	SER	CA-C-N	6.39	127.54	120.45
1	ao	33	SER	C-N-CA	6.39	127.54	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ao	119	THR	N-CA-C	6.39	121.07	113.28
1	aC	49	PRO	CA-C-N	6.39	128.84	120.28
1	aC	49	PRO	C-N-CA	6.39	128.84	120.28
1	aG	206	GLY	CA-C-O	-6.39	112.38	121.52
1	b7	16	SER	CA-C-N	6.39	125.81	118.85
1	b7	16	SER	C-N-CA	6.39	125.81	118.85
1	19	162	ARG	N-CA-C	6.39	118.25	111.28
1	bN	203	LYS	N-CA-C	6.39	119.23	111.82
1	bR	23	TRP	CB-CG-CD1	6.39	136.48	126.90
1	1b	113	GLU	CA-C-N	6.39	128.75	120.44
1	1b	113	GLU	C-N-CA	6.39	128.75	120.44
1	ch	209	ALA	CA-C-N	6.39	129.94	120.87
1	ch	209	ALA	C-N-CA	6.39	129.94	120.87
1	cW	179	GLN	O-C-N	-6.39	115.44	122.09
1	d2	35	GLU	CA-C-O	6.39	127.15	119.10
1	da	163	ASP	O-C-N	-6.39	115.49	122.07
1	dj	162	ARG	N-CA-C	6.39	119.06	111.33
1	dI	84	HIS	CA-C-N	6.39	126.76	119.92
1	dI	84	HIS	C-N-CA	6.39	126.76	119.92
1	dJ	189	LEU	N-CA-CB	-6.39	99.69	110.49
1	dO	189	LEU	N-CA-C	6.39	121.15	113.23
1	e3	89	GLY	CA-C-N	6.39	126.41	119.89
1	e3	89	GLY	C-N-CA	6.39	126.41	119.89
1	el	167	ARG	N-CA-C	6.39	118.25	111.28
1	ey	54	THR	O-C-N	-6.39	115.35	122.12
1	eP	129	ILE	O-C-N	-6.39	115.67	121.87
1	eR	13	GLN	O-C-N	-6.39	115.47	123.27
1	fp	19	THR	N-CA-CB	6.39	119.46	109.94
1	fp	98	GLU	O-C-N	-6.39	116.57	121.55
1	fq	126	VAL	CA-C-N	6.39	127.03	120.00
1	fq	126	VAL	C-N-CA	6.39	127.03	120.00
1	fC	108	THR	O-C-N	-6.39	114.65	122.25
1	g0	146	SER	O-C-N	-6.39	113.97	121.32
1	g2	36	VAL	CA-C-N	6.39	124.27	120.24
1	g2	36	VAL	C-N-CA	6.39	124.27	120.24
1	y	78	ALA	CA-C-N	6.39	128.84	120.28
1	y	78	ALA	C-N-CA	6.39	128.84	120.28
1	H	114	GLN	N-CA-C	6.39	117.91	111.07
1	gx	148	THR	O-C-N	-6.39	115.70	123.30
1	gO	122	PRO	CA-C-N	6.39	127.26	120.11
1	gO	122	PRO	C-N-CA	6.39	127.26	120.11
1	gO	163	ASP	CA-CB-CG	6.39	118.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	103	ASP	O-C-N	-6.39	115.49	122.07
1	hv	125	PRO	CA-C-N	6.39	129.21	120.46
1	hv	125	PRO	C-N-CA	6.39	129.21	120.46
1	ia	176	GLN	CA-C-N	6.39	129.78	120.71
1	ia	176	GLN	C-N-CA	6.39	129.78	120.71
1	ib	100	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	iU	90	PRO	N-CA-C	6.39	121.67	111.26
1	j3	12	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	jZ	47	ALA	CA-C-O	6.39	127.97	120.69
1	kc	17	PRO	CA-C-N	6.39	129.08	120.65
1	kc	17	PRO	C-N-CA	6.39	129.08	120.65
1	ko	125	PRO	N-CA-CB	6.39	107.39	102.73
1	kt	82	ARG	CA-C-N	6.39	128.74	120.44
1	kt	82	ARG	C-N-CA	6.39	128.74	120.44
1	22	14	ALA	O-C-N	-6.39	114.86	122.65
1	li	171	THR	CA-C-N	6.39	128.84	120.28
1	li	171	THR	C-N-CA	6.39	128.84	120.28
1	lp	10	MET	N-CA-C	6.39	119.04	110.35
1	ly	54	THR	O-C-N	-6.39	115.35	122.12
1	lO	165	VAL	CA-C-N	6.39	128.75	120.44
1	lO	165	VAL	C-N-CA	6.39	128.75	120.44
1	2b	35	GLU	CA-C-O	6.39	127.22	119.49
1	3i	169	TYR	CB-CG-CD1	-6.39	111.22	120.80
1	3s	106	GLY	CA-C-N	6.39	128.75	120.44
1	3s	106	GLY	C-N-CA	6.39	128.75	120.44
1	46	126	VAL	CB-CA-C	-6.39	102.26	112.16
1	5l	151	LEU	O-C-N	-6.39	115.35	122.12
1	5z	114	GLN	CA-C-N	6.39	128.61	120.56
1	5z	114	GLN	C-N-CA	6.39	128.61	120.56
1	61	118	MET	N-CA-C	6.39	118.24	111.28
1	67	102	SER	CA-C-N	6.39	128.84	120.28
1	67	102	SER	C-N-CA	6.39	128.84	120.28
1	6p	183	ASN	CA-CB-CG	-6.39	106.21	112.60
1	6r	182	LYS	N-CA-C	6.39	119.06	111.71
1	7c	9	GLN	N-CA-C	6.39	120.48	111.92
1	8q	133	TRP	CA-C-N	6.39	128.74	120.56
1	8q	133	TRP	C-N-CA	6.39	128.74	120.56
1	9W	44	SER	N-CA-CB	6.39	119.89	110.56
1	aX	83	LEU	O-C-N	-6.39	114.87	122.15
1	b1	193	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	br	21	ASN	OD1-CG-ND2	-6.39	116.21	122.60
1	ci	74	ASN	CA-C-O	6.39	127.32	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cP	98	GLU	CA-C-O	-6.39	114.59	119.32
1	cR	93	PRO	N-CA-CB	6.39	109.96	103.25
1	dw	3	VAL	CA-C-N	6.39	133.82	122.45
1	dw	3	VAL	C-N-CA	6.39	133.82	122.45
1	dy	190	LEU	CA-C-N	6.39	130.77	120.55
1	dy	190	LEU	C-N-CA	6.39	130.77	120.55
1	fc	7	GLN	CA-C-O	6.39	127.26	120.36
1	g0	22	ALA	CB-CA-C	6.39	121.71	110.85
1	ga	180	GLU	CB-CA-C	-6.39	100.19	110.79
1	gd	32	PHE	CA-CB-CG	6.39	120.19	113.80
1	gG	160	PRO	N-CA-CB	-6.39	98.58	102.79
1	gJ	63	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	hn	179	GLN	N-CA-C	6.39	117.90	111.07
1	ht	218	CYS	CA-C-N	6.39	130.18	121.05
1	ht	218	CYS	C-N-CA	6.39	130.18	121.05
1	hF	142	VAL	N-CA-C	6.39	117.13	110.62
1	hK	97	ARG	O-C-N	-6.39	115.57	122.85
1	hL	147	PRO	N-CA-CB	-6.39	96.55	103.25
1	hZ	116	GLY	N-CA-C	6.39	120.37	112.64
1	i6	103	ASP	N-CA-CB	6.39	119.51	110.12
1	i9	3	VAL	O-C-N	-6.39	115.49	122.64
1	it	148	THR	N-CA-C	6.39	118.57	108.67
1	iB	223	GLY	O-C-N	6.39	128.16	121.77
1	js	103	ASP	N-CA-C	6.39	118.24	111.28
1	jF	195	ASN	N-CA-CB	-6.39	99.00	110.37
1	1X	200	THR	N-CA-CB	6.39	119.27	110.01
1	jO	138	LEU	CA-C-N	6.39	128.74	120.44
1	jO	138	LEU	C-N-CA	6.39	128.74	120.44
1	jO	193	ASN	CA-C-N	6.39	131.99	121.39
1	jO	193	ASN	C-N-CA	6.39	131.99	121.39
1	ky	169	TYR	N-CA-C	6.39	118.24	111.28
1	kD	223	GLY	O-C-N	-6.39	115.38	121.77
1	24	74	ASN	N-CA-C	-6.39	104.40	111.36
1	kU	204	ALA	CA-C-N	6.39	128.74	120.44
1	kU	204	ALA	C-N-CA	6.39	128.74	120.44
1	lf	192	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	lm	69	LEU	N-CA-C	6.39	117.90	111.07
1	lL	163	ASP	CA-CB-CG	-6.39	106.21	112.60
1	2d	174	ALA	N-CA-C	-6.39	105.62	113.41
1	2u	62	HIS	CA-CB-CG	-6.39	107.41	113.80
1	2v	210	THR	O-C-N	-6.39	115.57	122.85
1	2N	133	TRP	N-CA-CB	-6.39	100.71	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3t	222	GLY	N-CA-C	6.39	120.39	112.73
1	3C	32	PHE	N-CA-C	-6.39	105.24	114.12
1	3L	229	ARG	NH1-CZ-NH2	-6.39	111.00	119.30
1	3S	12	HIS	CE1-NE2-CD2	-6.39	102.61	109.00
1	48	41	SER	O-C-N	-6.39	114.87	122.15
1	4G	124	ILE	N-CA-C	-6.39	100.77	107.60
1	4S	135	ILE	N-CA-C	6.39	120.98	112.04
1	5s	47	ALA	CA-C-O	6.39	127.97	120.69
1	5D	36	VAL	O-C-N	-6.39	115.55	121.94
1	5N	143	ARG	O-C-N	-6.39	114.87	122.15
1	5Q	43	LEU	N-CA-C	6.39	119.06	111.33
1	5Y	81	ASP	CB-CA-C	6.39	121.71	110.85
1	5Y	155	GLN	OE1-CD-NE2	-6.39	116.21	122.60
1	7F	155	GLN	N-CA-CB	-6.39	100.65	110.04
1	7L	122	PRO	N-CA-CB	6.39	109.62	102.60
1	8B	18	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	8F	42	ALA	N-CA-C	6.39	119.06	111.33
1	8F	108	THR	N-CA-C	-6.39	104.03	113.61
1	8H	86	VAL	CA-CB-CG2	-6.39	99.54	110.40
1	8O	194	ALA	N-CA-C	6.39	118.96	110.53
1	8W	200	THR	CA-C-O	-6.39	114.11	120.82
1	9b	53	ASN	N-CA-C	6.39	118.78	111.11
1	9d	37	ILE	O-C-N	6.39	124.51	120.42
1	9G	208	ALA	N-CA-C	6.39	120.17	111.17
1	9U	152	ASP	N-CA-CB	-6.39	101.79	110.67
1	aj	24	VAL	CB-CA-C	-6.39	103.67	112.04
1	as	74	ASN	N-CA-C	6.39	118.24	111.28
1	12	121	ASN	CA-CB-CG	6.39	118.99	112.60
1	aF	12	HIS	CG-CD2-NE2	6.39	113.59	107.20
1	aH	27	VAL	CA-CB-CG2	-6.39	99.54	110.40
1	aR	177	ALA	CA-C-N	6.39	130.39	120.75
1	aR	177	ALA	C-N-CA	6.39	130.39	120.75
1	b1	114	GLN	CA-C-N	6.39	128.61	120.56
1	b1	114	GLN	C-N-CA	6.39	128.61	120.56
1	b1	168	PHE	O-C-N	-6.39	115.49	122.07
1	bf	87	HIS	CG-CD2-NE2	6.39	113.59	107.20
1	bv	37	ILE	CA-C-N	6.39	125.81	118.85
1	bv	37	ILE	C-N-CA	6.39	125.81	118.85
1	bI	87	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	c3	209	ALA	N-CA-C	6.39	118.98	109.59
1	c4	87	HIS	CA-CB-CG	-6.39	107.41	113.80
1	c5	39	MET	N-CA-C	6.39	118.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cf	126	VAL	CA-C-N	6.39	127.03	119.94
1	cf	126	VAL	C-N-CA	6.39	127.03	119.94
1	cE	62	HIS	CA-CB-CG	-6.39	107.41	113.80
1	cU	196	PRO	CA-C-N	6.39	128.74	120.44
1	cU	196	PRO	C-N-CA	6.39	128.74	120.44
1	d1	105	ALA	O-C-N	-6.39	113.11	122.43
1	dA	33	SER	O-C-N	-6.39	115.66	121.66
1	e0	84	HIS	ND1-CE1-NE2	6.39	114.79	108.40
1	es	103	ASP	CA-CB-CG	-6.39	106.21	112.60
1	1r	97	ARG	NE-CZ-NH1	6.39	127.89	121.50
1	ex	121	ASN	CA-CB-CG	6.39	118.99	112.60
1	eC	30	LYS	O-C-N	-6.39	114.46	122.19
1	eE	50	GLN	N-CA-C	6.39	118.24	111.28
1	eL	68	MET	CA-C-N	6.39	129.36	120.29
1	eL	68	MET	C-N-CA	6.39	129.36	120.29
1	eR	121	ASN	CA-CB-CG	6.39	118.99	112.60
1	f2	172	LEU	CB-CA-C	-6.39	100.19	110.79
1	fd	194	ALA	O-C-N	-6.39	115.51	122.79
1	1y	114	GLN	O-C-N	-6.39	115.35	122.12
1	g0	121	ASN	O-C-N	-6.39	114.06	121.60
1	g4	18	ARG	CA-C-O	-6.39	113.78	120.55
1	g5	230	VAL	CA-C-O	6.39	127.36	120.53
1	1B	209	ALA	CA-C-O	6.39	129.64	120.51
1	a	179	GLN	CA-C-N	6.39	129.36	120.29
1	a	179	GLN	C-N-CA	6.39	129.36	120.29
1	d	158	LYS	CB-CA-C	-6.39	98.77	109.75
1	u	80	TRP	CD2-CE2-CZ2	-6.39	116.01	122.40
1	v	36	VAL	CB-CA-C	6.39	120.76	112.14
1	X	128	GLU	N-CA-C	6.39	118.24	111.28
1	7	28	GLU	CA-C-N	6.39	129.31	120.63
1	7	28	GLU	C-N-CA	6.39	129.31	120.63
1	1C	131	LYS	N-CA-C	6.38	118.24	111.28
1	gr	146	SER	CA-C-O	-6.38	114.00	119.36
1	1D	57	ASN	CA-CB-CG	-6.38	106.22	112.60
1	gJ	191	VAL	O-C-N	-6.38	115.26	121.90
1	1I	185	MET	N-CA-C	6.38	118.24	111.28
1	ht	26	VAL	N-CA-CB	6.38	120.16	110.58
1	hw	43	LEU	N-CA-C	6.38	119.06	111.33
1	1M	130	TYR	CA-C-O	6.38	127.19	120.42
1	1N	65	ALA	N-CA-C	6.38	117.90	111.07
1	i9	180	GLU	N-CA-CB	6.38	119.61	110.16
1	iA	38	PRO	CA-C-N	6.38	128.74	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iA	38	PRO	C-N-CA	6.38	128.74	120.44
1	iG	113	GLU	CA-C-O	6.38	127.52	120.82
1	iH	169	TYR	CB-CG-CD2	6.38	130.38	120.80
1	iJ	55	MET	O-C-N	-6.38	115.35	122.12
1	iL	174	ALA	CA-C-N	6.38	128.74	120.44
1	iL	174	ALA	C-N-CA	6.38	128.74	120.44
1	j2	58	THR	CA-C-N	6.38	130.09	120.77
1	j2	58	THR	C-N-CA	6.38	130.09	120.77
1	jf	74	ASN	CA-C-O	6.38	127.07	119.60
1	jQ	164	TYR	CA-C-N	6.38	128.60	120.56
1	jQ	164	TYR	C-N-CA	6.38	128.60	120.56
1	jU	179	GLN	CA-CB-CG	6.38	126.87	114.10
1	jZ	133	TRP	CB-CG-CD1	6.38	136.48	126.90
1	kg	13	GLN	O-C-N	-6.38	115.84	123.31
1	kq	190	LEU	N-CA-CB	-6.38	100.75	110.01
1	kF	118	MET	CG-SD-CE	-6.38	86.85	100.90
1	l4	111	LEU	O-C-N	-6.38	115.45	122.09
1	lF	63	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	2s	229	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	2U	105	ALA	CA-C-O	6.38	127.14	119.10
1	3a	76	GLU	O-C-N	-6.38	114.42	122.27
1	46	195	ASN	CA-C-N	6.38	125.81	118.85
1	46	195	ASN	C-N-CA	6.38	125.81	118.85
1	49	9	GLN	CA-C-N	-6.38	114.19	123.00
1	49	9	GLN	C-N-CA	-6.38	114.19	123.00
1	4e	161	PHE	CA-C-N	6.38	128.84	120.28
1	4e	161	PHE	C-N-CA	6.38	128.84	120.28
1	4u	181	VAL	O-C-N	-6.38	114.59	121.80
1	4J	130	TYR	N-CA-C	6.38	119.22	111.82
1	4J	188	THR	N-CA-C	6.38	117.90	111.07
1	4K	130	TYR	CA-C-N	6.38	128.74	120.44
1	4K	130	TYR	C-N-CA	6.38	128.74	120.44
1	4N	92	GLU	N-CA-CB	6.38	119.43	110.11
1	52	162	ARG	CD-NE-CZ	-6.38	115.46	124.40
1	5m	33	SER	O-C-N	-6.38	114.28	121.43
1	5F	114	GLN	CA-C-N	6.38	128.73	120.56
1	5F	114	GLN	C-N-CA	6.38	128.73	120.56
1	5Q	97	ARG	NE-CZ-NH1	6.38	127.89	121.50
1	5S	119	THR	N-CA-C	-6.38	105.36	113.02
1	6l	143	ARG	CA-C-N	6.38	128.84	120.28
1	6l	143	ARG	C-N-CA	6.38	128.84	120.28
1	6s	115	ILE	CA-C-N	6.38	127.20	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	115	ILE	C-N-CA	6.38	127.20	119.99
1	6z	181	VAL	CA-CB-CG2	6.38	121.25	110.40
1	6P	182	LYS	O-C-N	-6.38	115.35	122.12
1	6W	135	ILE	CA-C-N	6.38	128.74	120.44
1	6W	135	ILE	C-N-CA	6.38	128.74	120.44
1	6X	62	HIS	CA-C-N	6.38	129.36	120.29
1	6X	62	HIS	C-N-CA	6.38	129.36	120.29
1	7x	212	GLU	CA-C-N	6.38	128.83	120.28
1	7x	212	GLU	C-N-CA	6.38	128.83	120.28
1	7A	66	MET	CA-C-N	6.38	128.84	120.28
1	7A	66	MET	C-N-CA	6.38	128.84	120.28
1	7E	128	GLU	N-CA-C	6.38	118.03	111.14
1	7R	97	ARG	NE-CZ-NH2	-6.38	113.45	119.20
1	85	218	CYS	CA-C-N	6.38	129.94	120.87
1	85	218	CYS	C-N-CA	6.38	129.94	120.87
1	8N	45	GLU	O-C-N	-6.38	115.08	122.93
1	8Q	53	ASN	CA-CB-CG	-6.38	106.22	112.60
1	9a	133	TRP	CB-CG-CD1	6.38	136.48	126.90
1	9t	67	GLN	CA-C-N	6.38	128.83	120.28
1	9t	67	GLN	C-N-CA	6.38	128.83	120.28
1	9H	192	GLN	N-CA-C	6.38	117.90	111.07
1	9V	182	LYS	N-CA-C	6.38	118.24	111.28
1	aa	120	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	ap	119	THR	N-CA-C	6.38	118.32	111.36
1	aD	61	GLY	N-CA-C	6.38	121.32	112.57
1	aN	194	ALA	N-CA-C	6.38	118.79	110.43
1	bA	16	SER	O-C-N	-6.38	115.19	121.19
1	bE	169	TYR	N-CA-C	6.38	117.90	111.07
1	bX	193	ASN	CA-C-O	6.38	127.03	119.56
1	c2	23	TRP	N-CA-C	6.38	118.24	111.28
1	cb	112	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	cj	67	GLN	O-C-N	-6.38	115.45	122.09
1	cE	5	ASN	OD1-CG-ND2	-6.38	116.22	122.60
1	1g	165	VAL	N-CA-C	6.38	117.13	110.62
1	d5	72	THR	N-CA-CB	6.38	119.27	110.01
1	1j	72	THR	CA-C-N	6.38	129.21	120.46
1	1j	72	THR	C-N-CA	6.38	129.21	120.46
1	dI	92	GLU	O-C-N	-6.38	114.72	121.30
1	dJ	42	ALA	N-CA-C	6.38	119.23	111.82
1	dR	87	HIS	CE1-NE2-CD2	-6.38	102.61	109.00
1	e1	216	THR	O-C-N	-6.38	115.35	122.12
1	1p	143	ARG	N-CA-CB	-6.38	100.73	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	229	ARG	CA-C-N	6.38	129.12	120.63
1	ed	229	ARG	C-N-CA	6.38	129.12	120.63
1	ev	7	GLN	OE1-CD-NE2	6.38	128.99	122.60
1	ev	57	ASN	N-CA-C	6.38	118.24	111.28
1	eB	159	GLU	N-CA-C	6.38	118.87	109.42
1	eW	129	ILE	O-C-N	6.38	128.85	121.96
1	f4	139	ASN	CA-C-N	6.38	128.84	120.28
1	f4	139	ASN	C-N-CA	6.38	128.84	120.28
1	f9	114	GLN	CA-C-N	6.38	128.60	120.56
1	f9	114	GLN	C-N-CA	6.38	128.60	120.56
1	fe	167	ARG	N-CA-C	6.38	119.06	111.33
1	ff	66	MET	N-CA-C	6.38	119.05	111.33
1	fy	229	ARG	NE-CZ-NH2	6.38	124.95	119.20
1	fW	163	ASP	CA-C-N	6.38	128.84	120.28
1	fW	163	ASP	C-N-CA	6.38	128.84	120.28
1	g1	179	GLN	CA-C-O	6.38	127.32	120.55
1	r	201	ILE	N-CA-CB	6.38	118.02	110.55
1	gx	135	ILE	CA-C-O	-6.38	114.77	121.41
1	gX	154	ARG	NE-CZ-NH2	-6.38	113.45	119.20
1	hi	205	LEU	N-CA-C	6.38	118.24	111.28
1	hj	182	LYS	CA-C-N	6.38	129.07	120.65
1	hj	182	LYS	C-N-CA	6.38	129.07	120.65
1	ho	144	MET	CA-C-O	-6.38	114.13	120.70
1	hG	155	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	ic	110	THR	CA-CB-OG1	6.38	119.17	109.60
1	io	87	HIS	CG-CD2-NE2	6.38	113.58	107.20
1	kk	162	ARG	CA-C-N	6.38	130.01	120.31
1	kk	162	ARG	C-N-CA	6.38	130.01	120.31
1	kt	16	SER	O-C-N	-6.38	114.28	121.43
1	kx	179	GLN	N-CA-C	6.38	119.92	111.75
1	lp	67	GLN	N-CA-C	6.38	118.24	111.28
1	2o	82	ARG	N-CA-C	-6.38	105.62	113.41
1	2p	71	GLU	N-CA-C	6.38	119.22	111.82
1	2x	148	THR	CA-CB-OG1	6.38	119.17	109.60
1	37	63	GLN	N-CA-C	6.38	118.03	111.14
1	3a	29	GLU	O-C-N	-6.38	115.50	122.07
1	3d	105	ALA	N-CA-CB	6.38	121.13	110.41
1	4D	62	HIS	ND1-CG-CD2	6.38	112.48	106.10
1	4F	5	ASN	N-CA-C	6.38	119.00	111.02
1	4G	115	ILE	O-C-N	-6.38	115.68	121.87
1	5b	5	ASN	CA-C-O	-6.38	112.06	119.59
1	5K	214	MET	CA-CB-CG	6.38	126.86	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7B	62	HIS	CA-C-O	6.38	129.64	120.51
1	7F	124	ILE	CA-C-O	-6.38	115.38	119.15
1	7W	92	GLU	CB-CG-CD	-6.38	101.75	112.60
1	8q	113	GLU	CA-C-N	6.38	128.83	120.28
1	8q	113	GLU	C-N-CA	6.38	128.83	120.28
1	9B	78	ALA	CA-C-N	6.38	128.74	120.44
1	9B	78	ALA	C-N-CA	6.38	128.74	120.44
1	9G	117	TRP	CA-C-O	6.38	127.22	119.31
1	9O	191	VAL	O-C-N	-6.38	115.25	121.83
1	9X	39	MET	CA-C-N	6.38	128.74	120.44
1	9X	39	MET	C-N-CA	6.38	128.74	120.44
1	9Y	54	THR	O-C-N	-6.38	115.35	122.12
1	a1	213	GLU	O-C-N	-6.38	115.50	122.07
1	16	197	ASP	CA-C-N	6.38	128.83	120.28
1	16	197	ASP	C-N-CA	6.38	128.83	120.28
1	cB	20	LEU	O-C-N	-6.38	115.35	122.12
1	d3	176	GLN	N-CA-C	-6.38	106.20	112.97
1	dk	143	ARG	CB-CA-C	-6.38	100.19	110.79
1	fi	84	HIS	CB-CG-CD2	-6.38	122.90	131.20
1	fw	161	PHE	CA-CB-CG	-6.38	107.42	113.80
1	R	115	ILE	CA-C-N	6.38	127.03	119.94
1	R	115	ILE	C-N-CA	6.38	127.03	119.94
1	S	165	VAL	N-CA-C	6.38	117.90	110.62
1	g8	193	ASN	OD1-CG-ND2	-6.38	116.22	122.60
1	ga	44	SER	CA-C-N	6.38	129.35	120.29
1	ga	44	SER	C-N-CA	6.38	129.35	120.29
1	gd	131	LYS	CA-C-N	6.38	129.15	120.54
1	gd	131	LYS	C-N-CA	6.38	129.15	120.54
1	gl	88	ALA	O-C-N	-6.38	115.44	122.84
1	gm	223	GLY	CA-C-N	6.38	126.41	119.90
1	gm	223	GLY	C-N-CA	6.38	126.41	119.90
1	gE	122	PRO	CA-C-N	6.38	126.60	119.90
1	gE	122	PRO	C-N-CA	6.38	126.60	119.90
1	gV	146	SER	CA-C-O	-6.38	113.26	119.51
1	gY	155	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	h1	198	CYS	CA-C-N	6.38	130.39	120.82
1	h1	198	CYS	C-N-CA	6.38	130.39	120.82
1	1H	198	CYS	CA-C-N	6.38	130.91	120.63
1	1H	198	CYS	C-N-CA	6.38	130.91	120.63
1	h8	141	ILE	N-CA-CB	6.38	118.74	110.57
1	hb	82	ARG	CA-C-N	6.38	128.83	120.28
1	hb	82	ARG	C-N-CA	6.38	128.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	165	VAL	CA-C-N	6.38	128.74	120.44
1	hr	165	VAL	C-N-CA	6.38	128.74	120.44
1	hB	4	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	1M	91	ILE	O-C-N	-6.38	116.12	122.76
1	hX	100	ARG	NH1-CZ-NH2	-6.38	111.00	119.30
1	i6	173	ARG	N-CA-C	6.38	119.22	111.82
1	ib	84	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	j3	72	THR	N-CA-CB	6.38	119.26	110.01
1	j9	12	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	jy	50	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	jK	193	ASN	N-CA-CB	6.38	119.72	110.47
1	1Y	62	HIS	ND1-CG-CD2	6.38	112.48	106.10
1	kB	31	ALA	O-C-N	-6.38	114.92	122.20
1	kK	208	ALA	CA-C-N	6.38	129.77	120.71
1	kK	208	ALA	C-N-CA	6.38	129.77	120.71
1	kX	42	ALA	O-C-N	-6.38	115.50	122.07
1	l2	226	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	l6	166	ASP	N-CA-C	6.38	117.90	111.07
1	lb	35	GLU	N-CA-C	6.38	118.24	111.28
1	lb	201	ILE	CA-CB-CG1	6.38	121.25	110.40
1	lj	129	ILE	N-CA-C	6.38	117.13	110.62
1	lE	163	ASP	O-C-N	-6.38	114.88	122.15
1	lI	143	ARG	N-CA-C	6.38	118.24	111.28
1	lK	134	ILE	O-C-N	-6.38	115.66	121.91
1	2i	82	ARG	CA-C-N	6.38	128.74	120.44
1	2i	82	ARG	C-N-CA	6.38	128.74	120.44
1	2v	107	THR	N-CA-CB	6.38	119.54	110.67
1	2Z	95	GLN	N-CA-CB	6.38	120.51	110.56
1	3D	61	GLY	CA-C-N	6.38	131.46	122.46
1	3D	61	GLY	C-N-CA	6.38	131.46	122.46
1	3S	124	ILE	O-C-N	-6.38	115.67	121.41
1	3S	152	ASP	CA-CB-CG	-6.38	106.22	112.60
1	4s	123	PRO	N-CA-C	6.38	125.62	112.47
1	4I	58	THR	N-CA-C	6.38	117.90	111.07
1	59	28	GLU	N-CA-C	6.38	117.90	111.07
1	5n	20	LEU	CA-C-N	6.38	129.35	120.29
1	5n	20	LEU	C-N-CA	6.38	129.35	120.29
1	5n	162	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	5G	143	ARG	NH1-CZ-NH2	-6.38	111.00	119.30
1	5L	226	HIS	CA-C-N	6.38	131.99	122.99
1	5L	226	HIS	C-N-CA	6.38	131.99	122.99
1	5X	201	ILE	CA-C-N	6.38	128.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	201	ILE	C-N-CA	6.38	128.83	120.28
1	5Y	42	ALA	CA-C-N	6.38	129.16	120.54
1	5Y	42	ALA	C-N-CA	6.38	129.16	120.54
1	6M	140	LYS	CA-C-N	6.38	128.60	120.56
1	6M	140	LYS	C-N-CA	6.38	128.60	120.56
1	6U	72	THR	N-CA-CB	6.38	119.50	110.12
1	7l	98	GLU	CA-C-O	-6.38	114.55	119.46
1	7F	176	GLN	O-C-N	-6.38	115.71	123.30
1	8a	54	THR	CA-C-N	6.38	129.16	120.54
1	8a	54	THR	C-N-CA	6.38	129.16	120.54
1	8k	113	GLU	CA-C-N	6.38	129.35	120.29
1	8k	113	GLU	C-N-CA	6.38	129.35	120.29
1	8u	60	GLY	CA-C-N	6.38	127.74	120.53
1	8u	60	GLY	C-N-CA	6.38	127.74	120.53
1	9b	123	PRO	N-CA-C	6.38	120.86	111.03
1	9p	229	ARG	NH1-CZ-NH2	-6.38	111.00	119.30
1	9v	221	VAL	N-CA-C	6.38	117.97	106.61
1	9z	53	ASN	CA-CB-CG	-6.38	106.22	112.60
1	9I	67	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	9M	21	ASN	N-CA-C	6.38	118.24	111.28
1	9Q	97	ARG	NE-CZ-NH2	6.38	124.94	119.20
1	9R	126	VAL	N-CA-C	6.38	117.13	110.62
1	9U	24	VAL	N-CA-C	6.38	117.06	110.36
1	9U	176	GLN	CB-CA-C	6.38	120.75	110.09
1	9Y	114	GLN	N-CA-C	6.38	117.90	111.07
1	a2	137	GLY	CA-C-N	6.38	128.83	120.28
1	a2	137	GLY	C-N-CA	6.38	128.83	120.28
1	aj	143	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	11	40	PHE	CA-C-N	6.38	129.35	120.29
1	11	40	PHE	C-N-CA	6.38	129.35	120.29
1	ap	53	ASN	CA-CB-CG	-6.38	106.22	112.60
1	aq	55	MET	CG-SD-CE	-6.38	86.86	100.90
1	aD	36	VAL	N-CA-CB	6.38	118.74	110.57
1	aG	209	ALA	N-CA-C	6.38	119.50	110.50
1	aT	55	MET	CB-CA-C	-6.38	100.86	110.88
1	bk	173	ARG	O-C-N	-6.38	114.75	122.22
1	bx	20	LEU	O-C-N	-6.38	115.36	122.12
1	bB	3	VAL	O-C-N	-6.38	116.44	123.20
1	19	169	TYR	N-CA-C	6.38	117.90	111.07
1	c9	163	ASP	O-C-N	-6.38	115.50	122.07
1	ci	87	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	cB	139	ASN	CA-CB-CG	6.38	118.98	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1h	56	LEU	N-CA-C	6.38	118.23	111.28
1	cW	144	MET	O-C-N	-6.38	115.36	122.12
1	dm	144	MET	CA-C-N	6.38	131.49	120.58
1	dm	144	MET	C-N-CA	6.38	131.49	120.58
1	dm	229	ARG	CA-C-O	6.38	126.82	119.35
1	du	223	GLY	O-C-N	6.38	128.15	121.77
1	dx	204	ALA	CB-CA-C	-6.38	100.82	110.90
1	dP	32	PHE	CA-C-N	6.38	131.26	122.07
1	dP	32	PHE	C-N-CA	6.38	131.26	122.07
1	1n	88	ALA	CA-C-N	6.38	129.53	121.36
1	1n	88	ALA	C-N-CA	6.38	129.53	121.36
1	e8	185	MET	O-C-N	-6.38	115.45	122.09
1	eA	105	ALA	CA-C-O	6.38	127.31	120.10
1	eU	106	GLY	CA-C-N	6.38	128.74	120.44
1	eU	106	GLY	C-N-CA	6.38	128.74	120.44
1	eV	161	PHE	CA-CB-CG	6.38	120.18	113.80
1	fq	226	HIS	CA-CB-CG	-6.38	107.42	113.80
1	1x	111	LEU	O-C-N	-6.38	115.36	122.12
1	fw	2	ILE	CA-CB-CG1	6.38	121.25	110.40
1	fB	29	GLU	O-C-N	-6.38	115.20	122.09
1	fU	49	PRO	CA-C-N	6.38	129.12	120.38
1	fU	49	PRO	C-N-CA	6.38	129.12	120.38
1	a	206	GLY	O-C-N	-6.38	115.39	121.77
1	2	62	HIS	CA-CB-CG	6.38	120.18	113.80
1	C	120	HIS	CA-CB-CG	6.38	120.18	113.80
1	I	185	MET	N-CA-C	6.38	118.24	111.28
1	gd	161	PHE	CB-CA-C	6.38	121.38	110.79
1	gj	162	ARG	N-CA-C	6.38	119.05	111.33
1	gl	70	LYS	N-CA-C	6.38	118.23	111.28
1	gt	88	ALA	CA-C-N	6.38	131.89	121.87
1	gt	88	ALA	C-N-CA	6.38	131.89	121.87
1	gt	111	LEU	CA-C-N	6.38	128.83	120.28
1	gt	111	LEU	C-N-CA	6.38	128.83	120.28
1	gx	203	LYS	CA-C-N	6.38	128.73	120.44
1	gx	203	LYS	C-N-CA	6.38	128.73	120.44
1	gD	29	GLU	N-CA-C	6.38	120.27	112.23
1	gN	57	ASN	N-CA-C	6.38	120.80	112.89
1	h7	42	ALA	N-CA-C	6.38	118.23	111.28
1	hg	63	GLN	CA-C-O	-6.38	113.66	120.42
1	hw	178	SER	O-C-N	-6.38	115.28	122.75
1	hR	93	PRO	N-CA-CB	6.38	109.95	103.25
1	iD	206	GLY	CA-C-N	6.38	126.50	119.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	206	GLY	C-N-CA	6.38	126.50	119.87
1	j2	84	HIS	CA-C-O	-6.38	114.26	120.19
1	jM	145	TYR	CA-C-O	6.38	127.15	119.43
1	kf	129	ILE	O-C-N	-6.38	115.07	121.96
1	kF	92	GLU	CB-CA-C	-6.38	101.80	110.22
1	kT	146	SER	CA-C-O	-6.38	115.34	121.34
1	lq	53	ASN	CA-C-N	6.38	128.83	120.28
1	lq	53	ASN	C-N-CA	6.38	128.83	120.28
1	lJ	66	MET	N-CA-C	6.38	120.32	112.54
1	2Y	82	ARG	CG-CD-NE	-6.38	97.97	112.00
1	34	12	HIS	CB-CG-ND1	6.38	132.27	122.70
1	38	167	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	3b	76	GLU	CA-C-N	6.38	129.15	120.54
1	3b	76	GLU	C-N-CA	6.38	129.15	120.54
1	3f	217	ALA	O-C-N	-6.38	115.15	122.68
1	3g	53	ASN	CA-CB-CG	-6.38	106.22	112.60
1	3q	108	THR	N-CA-C	-6.38	103.11	113.19
1	3Z	208	ALA	N-CA-C	6.38	118.31	111.36
1	4E	167	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	57	96	MET	CA-C-N	6.38	130.96	120.94
1	57	96	MET	C-N-CA	6.38	130.96	120.94
1	5k	222	GLY	N-CA-C	-6.38	105.64	112.08
1	5U	143	ARG	CA-C-N	6.38	128.73	120.44
1	5U	143	ARG	C-N-CA	6.38	128.73	120.44
1	6W	195	ASN	CA-C-N	6.38	127.81	119.84
1	6W	195	ASN	C-N-CA	6.38	127.81	119.84
1	7J	119	THR	CA-C-N	6.38	131.65	120.87
1	7J	119	THR	C-N-CA	6.38	131.65	120.87
1	8x	52	LEU	O-C-N	-6.38	113.66	122.46
1	8J	227	LYS	N-CA-C	6.38	117.90	111.07
1	9H	87	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	9P	62	HIS	CA-C-N	6.38	129.35	120.29
1	9P	62	HIS	C-N-CA	6.38	129.35	120.29
1	Y	173	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	15	120	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	bs	165	VAL	CA-C-O	-6.38	114.41	121.17
1	bw	84	HIS	CA-CB-CG	6.38	120.18	113.80
1	cZ	3	VAL	O-C-N	-6.38	116.76	122.69
1	d2	65	ALA	CB-CA-C	-6.38	100.82	110.90
1	dw	173	ARG	CA-C-N	6.38	128.83	120.28
1	dw	173	ARG	C-N-CA	6.38	128.83	120.28
1	1p	35	GLU	N-CA-CB	6.38	120.22	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fG	211	LEU	CA-C-O	6.38	127.31	119.97
1	t	202	LEU	N-CA-C	6.38	118.23	111.28
1	7	47	ALA	N-CA-C	6.38	119.72	110.28
1	ge	160	PRO	N-CA-CB	-6.38	97.39	103.39
1	1F	83	LEU	N-CA-C	6.38	118.31	111.36
1	1H	73	ILE	O-C-N	-6.38	115.66	121.91
1	hm	1	PRO	N-CA-CB	-6.38	95.98	103.00
1	hw	126	VAL	CA-C-N	6.38	127.02	120.00
1	hw	126	VAL	C-N-CA	6.38	127.02	120.00
1	hS	200	THR	N-CA-C	6.38	118.23	111.28
1	hV	185	MET	N-CA-C	6.38	118.23	111.28
1	ik	84	HIS	CE1-NE2-CD2	-6.38	102.62	109.00
1	iR	41	SER	CA-C-N	6.38	128.73	120.44
1	iR	41	SER	C-N-CA	6.38	128.73	120.44
1	ji	89	GLY	CA-C-N	6.38	126.40	119.89
1	ji	89	GLY	C-N-CA	6.38	126.40	119.89
1	jq	117	TRP	N-CA-C	6.38	118.23	111.28
1	js	10	MET	N-CA-C	6.38	119.48	110.23
1	jD	219	GLN	O-C-N	-6.38	115.71	123.30
1	21	26	VAL	CB-CA-C	-6.38	103.68	112.04
1	kF	173	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	kV	88	ALA	N-CA-C	6.38	119.49	110.50
1	l3	53	ASN	CA-C-N	6.38	128.73	120.44
1	l3	53	ASN	C-N-CA	6.38	128.73	120.44
1	le	20	LEU	CA-C-O	-6.38	114.12	120.82
1	lv	193	ASN	O-C-N	-6.38	114.16	122.39
1	lG	58	THR	CA-C-N	6.38	129.20	120.46
1	lG	58	THR	C-N-CA	6.38	129.20	120.46
1	lI	12	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	lN	218	CYS	N-CA-CB	6.38	121.27	110.49
1	2c	84	HIS	CA-CB-CG	6.38	120.18	113.80
1	2x	62	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	2z	3	VAL	O-C-N	-6.38	116.33	123.03
1	2A	216	THR	CB-CA-C	-6.38	99.78	110.56
1	2Q	174	ALA	CA-C-N	6.38	129.88	120.95
1	2Q	174	ALA	C-N-CA	6.38	129.88	120.95
1	37	34	PRO	N-CA-C	6.38	125.61	112.47
1	38	156	GLY	O-C-N	-6.38	115.39	121.77
1	3v	217	ALA	N-CA-C	6.38	119.50	110.50
1	3A	169	TYR	CA-C-O	6.38	127.32	119.79
1	3G	183	ASN	CA-CB-CG	-6.38	106.22	112.60
1	3Q	210	THR	O-C-N	-6.38	116.59	123.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3X	119	THR	N-CA-CB	6.38	120.39	110.44
1	4b	26	VAL	N-CA-CB	6.38	118.01	110.55
1	5i	190	LEU	N-CA-C	6.38	118.76	111.11
1	5m	87	HIS	N-CA-CB	6.38	119.45	109.69
1	5o	140	LYS	N-CA-C	6.38	118.23	111.28
1	5z	122	PRO	N-CA-CB	6.38	109.61	102.60
1	5C	160	PRO	N-CA-C	6.38	121.23	111.15
1	5E	87	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	5M	146	SER	CA-C-O	-6.38	113.75	119.75
1	5W	142	VAL	CA-CB-CG1	6.38	121.24	110.40
1	63	103	ASP	CA-CB-CG	-6.38	106.22	112.60
1	6g	143	ARG	CD-NE-CZ	6.38	133.33	124.40
1	6r	169	TYR	N-CA-C	6.38	118.23	111.28
1	78	16	SER	CA-C-O	6.38	126.34	120.60
1	7J	115	ILE	O-C-N	-6.38	115.66	121.91
1	7K	104	ILE	O-C-N	-6.38	115.43	121.87
1	8c	22	ALA	CA-C-O	6.38	127.52	120.82
1	9m	38	PRO	CA-C-N	6.38	129.11	120.44
1	9m	38	PRO	C-N-CA	6.38	129.11	120.44
1	9v	114	GLN	CA-C-N	6.38	130.76	120.30
1	9v	114	GLN	C-N-CA	6.38	130.76	120.30
1	9Z	180	GLU	N-CA-CB	-6.38	100.49	110.06
1	ae	131	LYS	N-CA-C	6.38	119.04	111.71
1	ak	69	LEU	N-CA-C	6.38	118.23	111.28
1	ak	84	HIS	O-C-N	-6.38	115.71	121.39
1	aT	55	MET	N-CA-C	6.38	117.89	111.07
1	aT	172	LEU	CA-C-N	6.38	128.73	120.44
1	aT	172	LEU	C-N-CA	6.38	128.73	120.44
1	aV	48	THR	CA-C-O	-6.38	114.27	120.97
1	aV	101	GLY	CA-C-N	6.38	130.00	120.31
1	aV	101	GLY	C-N-CA	6.38	130.00	120.31
1	1c	17	PRO	CA-C-N	6.38	129.47	120.28
1	1c	17	PRO	C-N-CA	6.38	129.47	120.28
1	cr	70	LYS	N-CA-C	6.38	118.23	111.28
1	cs	154	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	cP	22	ALA	CA-C-N	6.38	128.83	120.28
1	cP	22	ALA	C-N-CA	6.38	128.83	120.28
1	cZ	126	VAL	O-C-N	6.38	128.06	121.87
1	1i	9	GLN	CA-C-N	6.38	130.17	121.05
1	1i	9	GLN	C-N-CA	6.38	130.17	121.05
1	dd	134	ILE	N-CA-CB	6.38	118.01	110.55
1	dm	163	ASP	CA-C-N	6.38	129.15	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dm	163	ASP	C-N-CA	6.38	129.15	120.54
1	dp	95	GLN	O-C-N	-6.38	115.29	122.75
1	dp	223	GLY	O-C-N	-6.38	115.39	121.77
1	ds	138	LEU	CA-C-N	6.38	128.73	120.44
1	ds	138	LEU	C-N-CA	6.38	128.73	120.44
1	dB	223	GLY	CA-C-N	6.38	126.35	119.78
1	dB	223	GLY	C-N-CA	6.38	126.35	119.78
1	dG	77	ALA	CA-C-N	6.38	128.73	120.44
1	dG	77	ALA	C-N-CA	6.38	128.73	120.44
1	dL	73	ILE	N-CA-C	6.38	117.13	110.62
1	dS	203	LYS	CA-C-O	-6.38	113.79	120.55
1	dU	68	MET	CA-C-N	6.38	128.83	120.28
1	dU	68	MET	C-N-CA	6.38	128.83	120.28
1	e3	36	VAL	N-CA-C	-6.38	105.96	113.42
1	ed	109	SER	CA-C-O	6.38	129.28	121.56
1	es	166	ASP	O-C-N	-6.38	115.50	122.07
1	eL	62	HIS	CB-CG-CD2	-6.38	122.91	131.20
1	eS	114	GLN	CB-CG-CD	-6.38	101.75	112.60
1	f6	213	GLU	CB-CA-C	-6.38	100.86	110.88
1	fz	220	GLY	CA-C-O	6.38	127.65	119.68
1	fF	161	PHE	CA-C-N	6.38	129.15	120.54
1	fF	161	PHE	C-N-CA	6.38	129.15	120.54
1	z	96	MET	CG-SD-CE	-6.38	86.86	100.90
1	4	68	MET	CA-C-N	6.38	128.73	120.44
1	4	68	MET	C-N-CA	6.38	128.73	120.44
1	R	150	ILE	N-CA-C	6.38	119.02	111.05
1	1C	91	ILE	CA-C-O	6.38	128.75	120.78
1	gl	87	HIS	CA-CB-CG	6.38	120.18	113.80
1	gC	126	VAL	CA-C-N	6.38	127.06	119.98
1	gC	126	VAL	C-N-CA	6.38	127.06	119.98
1	gV	90	PRO	N-CA-CB	-6.38	97.80	103.35
1	gW	133	TRP	CB-CG-CD2	6.38	135.73	126.80
1	h2	163	ASP	N-CA-C	-6.38	105.66	113.50
1	h4	124	ILE	O-C-N	-6.38	115.05	120.92
1	hs	79	GLU	O-C-N	-6.38	114.43	122.27
1	hQ	26	VAL	CA-C-N	6.38	128.72	120.56
1	hQ	26	VAL	C-N-CA	6.38	128.72	120.56
1	1M	32	PHE	CA-CB-CG	-6.38	107.42	113.80
1	hW	1	PRO	CB-CA-C	6.38	122.21	110.10
1	ig	163	ASP	N-CA-CB	-6.38	100.48	110.30
1	io	229	ARG	N-CA-CB	6.38	119.35	110.17
1	iB	12	HIS	CB-CG-CD2	-6.38	122.91	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iN	122	PRO	CA-C-N	6.38	126.90	120.14
1	iN	122	PRO	C-N-CA	6.38	126.90	120.14
1	iV	120	HIS	CB-CG-CD2	-6.38	122.91	131.20
1	iW	18	ARG	N-CA-CB	6.38	119.26	110.01
1	iX	175	GLU	N-CA-C	6.38	118.03	111.14
1	jj	199	LYS	N-CA-C	6.38	119.04	111.71
1	jz	176	GLN	CG-CD-OE1	6.38	133.55	120.80
1	jR	56	LEU	CA-C-N	6.38	128.83	120.28
1	jR	56	LEU	C-N-CA	6.38	128.83	120.28
1	jV	159	GLU	N-CA-C	6.38	116.93	109.60
1	jZ	144	MET	N-CA-C	6.38	119.05	111.33
1	kt	160	PRO	CA-C-N	6.38	128.82	120.28
1	kt	160	PRO	C-N-CA	6.38	128.82	120.28
1	kF	3	VAL	CA-C-O	-6.38	114.17	121.44
1	l2	120	HIS	CA-CB-CG	6.38	120.18	113.80
1	ll	117	TRP	CB-CG-CD2	6.38	135.73	126.80
1	2c	128	GLU	CA-C-N	6.38	129.20	120.46
1	2c	128	GLU	C-N-CA	6.38	129.20	120.46
1	2y	100	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	2D	12	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	3d	211	LEU	N-CA-C	6.38	118.23	111.28
1	3i	101	GLY	CA-C-N	6.38	128.83	120.28
1	3i	101	GLY	C-N-CA	6.38	128.83	120.28
1	3q	98	GLU	CA-C-N	6.38	127.81	119.84
1	3q	98	GLU	C-N-CA	6.38	127.81	119.84
1	3y	7	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	47	153	ILE	O-C-N	-6.38	115.16	122.94
1	48	169	TYR	N-CA-CB	6.38	119.44	109.94
1	4f	152	ASP	CA-CB-CG	-6.38	106.22	112.60
1	5e	162	ARG	N-CA-C	6.38	117.89	111.07
1	5z	163	ASP	O-C-N	-6.38	115.36	122.12
1	5N	83	LEU	N-CA-C	6.38	119.22	111.82
1	62	200	THR	CA-C-N	6.38	128.59	120.56
1	62	200	THR	C-N-CA	6.38	128.59	120.56
1	6b	36	VAL	CA-C-N	6.38	124.26	120.24
1	6b	36	VAL	C-N-CA	6.38	124.26	120.24
1	6h	23	TRP	CB-CG-CD1	-6.38	117.33	126.90
1	6h	162	ARG	N-CA-C	6.38	118.76	111.11
1	6n	153	ILE	O-C-N	-6.38	116.17	122.67
1	6s	87	HIS	CA-CB-CG	6.38	120.18	113.80
1	6y	168	PHE	N-CA-CB	-6.38	100.75	110.12
1	6W	4	GLN	OE1-CD-NE2	-6.38	116.22	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7j	45	GLU	CA-C-O	6.38	127.69	120.80
1	8i	66	MET	N-CA-C	6.38	118.23	111.28
1	8o	133	TRP	CH2-CZ2-CE2	6.38	125.79	117.50
1	8s	14	ALA	N-CA-C	6.38	119.02	110.35
1	8x	136	LEU	O-C-N	-6.38	115.50	122.07
1	8F	1	PRO	CA-C-N	6.38	131.78	123.11
1	8F	1	PRO	C-N-CA	6.38	131.78	123.11
1	8N	89	GLY	CA-C-N	6.38	126.33	119.76
1	8N	89	GLY	C-N-CA	6.38	126.33	119.76
1	9d	139	ASN	CA-C-O	-6.38	113.79	120.55
1	9l	219	GLN	OE1-CD-NE2	-6.38	116.22	122.60
1	9t	9	GLN	N-CA-CB	6.38	119.41	110.04
1	9D	33	SER	CA-C-O	-6.38	113.48	120.69
1	9X	139	ASN	CB-CA-C	-6.38	100.78	110.92
1	a1	142	VAL	CA-CB-CG2	6.38	121.24	110.40
1	a6	98	GLU	CA-C-N	6.38	126.72	119.83
1	a6	98	GLU	C-N-CA	6.38	126.72	119.83
1	ah	47	ALA	CA-C-N	6.38	130.37	120.68
1	ah	47	ALA	C-N-CA	6.38	130.37	120.68
1	aQ	136	LEU	CA-C-N	6.38	127.02	119.94
1	aQ	136	LEU	C-N-CA	6.38	127.02	119.94
1	b7	41	SER	CA-C-O	-6.38	114.08	120.90
1	bb	180	GLU	CA-C-N	6.38	130.75	120.55
1	bb	180	GLU	C-N-CA	6.38	130.75	120.55
1	bv	130	TYR	CA-C-N	6.38	128.73	120.44
1	bv	130	TYR	C-N-CA	6.38	128.73	120.44
1	1b	12	HIS	CB-CG-ND1	6.38	132.27	122.70
1	c2	77	ALA	O-C-N	-6.38	115.50	122.07
1	c5	12	HIS	CA-C-O	6.38	128.80	121.47
1	cU	77	ALA	N-CA-C	6.38	117.89	111.07
1	d1	55	MET	CG-SD-CE	-6.38	86.87	100.90
1	1i	56	LEU	CA-C-O	6.38	127.32	120.24
1	d7	16	SER	CA-C-N	6.38	125.95	119.19
1	d7	16	SER	C-N-CA	6.38	125.95	119.19
1	1j	92	GLU	O-C-N	-6.38	114.29	121.43
1	de	147	PRO	CA-C-O	-6.38	114.29	121.43
1	dh	226	HIS	CG-CD2-NE2	6.38	113.58	107.20
1	dj	199	LYS	CA-C-O	-6.38	114.12	120.82
1	dG	216	THR	CA-C-O	6.38	127.00	119.28
1	dR	201	ILE	N-CA-C	6.38	116.54	110.42
1	ea	17	PRO	O-C-N	-6.38	113.66	122.27
1	er	103	ASP	N-CA-C	-6.38	104.41	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1r	121	ASN	CB-CA-C	6.38	121.14	110.55
1	ex	55	MET	N-CA-C	6.38	118.23	111.28
1	ez	108	THR	N-CA-CB	6.38	119.38	110.90
1	eD	164	TYR	CB-CA-C	6.38	121.01	110.81
1	eI	142	VAL	O-C-N	-6.38	115.69	121.87
1	eI	211	LEU	O-C-N	-6.38	115.36	122.12
1	eK	139	ASN	CA-C-O	6.38	127.30	119.97
1	eQ	3	VAL	N-CA-C	6.38	116.77	108.35
1	1u	159	GLU	N-CA-C	6.38	117.74	109.64
1	f0	212	GLU	CA-C-O	6.38	127.30	119.97
1	fd	207	PRO	N-CD-CG	6.38	112.76	103.20
1	fI	110	THR	CA-C-O	-6.38	114.47	121.87
1	fS	195	ASN	CB-CA-C	6.38	118.63	109.26
1	fV	97	ARG	NE-CZ-NH2	-6.38	113.46	119.20
1	b	3	VAL	O-C-N	-6.38	115.81	123.02
1	K	205	LEU	CA-C-N	6.38	131.88	121.87
1	K	205	LEU	C-N-CA	6.38	131.88	121.87
1	ga	67	GLN	N-CA-C	6.38	117.89	111.07
1	gl	51	ASP	CA-CB-CG	6.38	118.97	112.60
1	gQ	176	GLN	N-CA-C	-6.38	105.43	113.72
1	h5	174	ALA	O-C-N	-6.38	114.88	122.15
1	ha	85	PRO	N-CA-CB	6.38	108.67	103.32
1	hl	191	VAL	N-CA-C	6.38	116.54	110.42
1	hH	122	PRO	CA-C-N	6.38	127.38	119.98
1	hH	122	PRO	C-N-CA	6.38	127.38	119.98
1	hY	165	VAL	CA-C-N	6.38	128.73	120.44
1	hY	165	VAL	C-N-CA	6.38	128.73	120.44
1	ic	226	HIS	ND1-CE1-NE2	6.38	114.78	108.40
1	iz	216	THR	N-CA-CB	6.38	119.87	110.56
1	1R	173	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	iX	18	ARG	CB-CA-C	-6.38	100.21	110.79
1	jb	100	ARG	NE-CZ-NH2	6.38	124.94	119.20
1	jk	177	ALA	N-CA-C	6.38	118.78	110.43
1	jq	80	TRP	CA-C-N	6.38	129.11	120.44
1	jq	80	TRP	C-N-CA	6.38	129.11	120.44
1	jw	76	GLU	CA-C-N	6.38	128.82	120.28
1	jw	76	GLU	C-N-CA	6.38	128.82	120.28
1	kB	167	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	ly	121	ASN	N-CA-C	6.38	118.88	110.08
1	41	138	LEU	CA-C-N	6.38	128.73	120.44
1	41	138	LEU	C-N-CA	6.38	128.73	120.44
1	4w	135	ILE	O-C-N	6.38	128.40	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4I	188	THR	CA-CB-OG1	6.38	119.16	109.60
1	56	67	GLN	N-CA-C	6.38	118.23	111.28
1	59	132	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	5z	217	ALA	CA-C-N	6.38	133.72	121.54
1	5z	217	ALA	C-N-CA	6.38	133.72	121.54
1	5K	50	GLN	CA-C-N	6.38	128.82	120.28
1	5K	50	GLN	C-N-CA	6.38	128.82	120.28
1	63	40	PHE	O-C-N	-6.38	115.36	122.12
1	63	219	GLN	CA-C-O	6.38	127.89	120.49
1	6q	162	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	6Y	179	GLN	CA-C-N	6.38	128.82	120.28
1	6Y	179	GLN	C-N-CA	6.38	128.82	120.28
1	76	109	SER	CA-C-O	6.38	127.25	120.36
1	7e	184	TRP	CA-C-N	6.38	130.00	120.31
1	7e	184	TRP	C-N-CA	6.38	130.00	120.31
1	7M	162	ARG	NE-CZ-NH1	6.38	127.88	121.50
1	81	118	MET	N-CA-C	6.38	120.26	112.23
1	9G	204	ALA	N-CA-CB	-6.38	100.75	110.12
1	a1	218	CYS	CA-C-N	6.38	129.34	120.29
1	a1	218	CYS	C-N-CA	6.38	129.34	120.29
1	aH	90	PRO	N-CA-CB	-6.38	97.97	103.32
1	bv	84	HIS	CA-CB-CG	-6.38	107.42	113.80
1	bK	38	PRO	O-C-N	-6.38	114.58	122.23
1	cT	67	GLN	CA-C-N	6.38	128.82	120.28
1	cT	67	GLN	C-N-CA	6.38	128.82	120.28
1	1h	143	ARG	N-CA-CB	6.38	119.49	110.12
1	ds	96	MET	N-CA-C	6.38	119.49	110.50
1	dO	92	GLU	N-CA-C	6.38	117.41	109.57
1	dQ	10	MET	N-CA-C	6.38	120.40	112.24
1	1o	91	ILE	CA-C-O	6.38	128.11	120.65
1	es	32	PHE	N-CA-C	6.38	119.77	112.57
1	eK	58	THR	CA-C-O	6.38	127.30	120.10
1	C	7	GLN	CG-CD-NE2	6.38	125.96	116.40
1	gg	14	ALA	N-CA-C	6.37	119.02	110.35
1	gk	212	GLU	N-CA-C	6.37	117.89	111.07
1	gn	167	ARG	CA-C-O	6.37	127.27	120.70
1	gq	57	ASN	CA-C-N	6.37	128.72	120.44
1	gq	57	ASN	C-N-CA	6.37	128.72	120.44
1	gy	52	LEU	CA-C-N	6.37	128.82	120.28
1	gy	52	LEU	C-N-CA	6.37	128.82	120.28
1	gE	166	ASP	CA-CB-CG	6.37	118.97	112.60
1	h8	228	ALA	N-CA-C	6.37	120.07	110.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hm	165	VAL	N-CA-C	6.37	117.12	110.62
1	hu	3	VAL	CA-CB-CG2	6.37	121.24	110.40
1	hK	213	GLU	N-CA-C	6.37	118.23	111.28
1	hQ	58	THR	N-CA-C	6.37	118.23	111.28
1	ia	67	GLN	O-C-N	-6.37	115.36	122.12
1	1O	198	CYS	CA-C-O	6.37	127.30	119.97
1	iA	148	THR	CA-CB-CG2	6.37	121.34	110.50
1	1R	45	GLU	N-CA-C	6.37	118.33	109.15
1	iL	21	ASN	O-C-N	-6.37	115.36	122.12
1	iX	120	HIS	O-C-N	-6.37	115.16	122.68
1	jv	176	GLN	OE1-CD-NE2	6.37	128.97	122.60
1	kh	7	GLN	O-C-N	-6.37	115.75	123.27
1	21	21	ASN	CA-C-O	6.37	127.18	120.42
1	kp	90	PRO	N-CA-CB	6.37	108.40	103.30
1	kE	2	ILE	CA-CB-CG2	-6.37	99.67	110.50
1	kR	146	SER	CA-C-N	6.37	127.81	119.84
1	kR	146	SER	C-N-CA	6.37	127.81	119.84
1	kV	126	VAL	N-CA-C	6.37	119.02	111.05
1	kZ	92	GLU	N-CA-C	6.37	117.73	109.64
1	kZ	97	ARG	NE-CZ-NH2	6.37	124.94	119.20
1	l6	63	GLN	O-C-N	6.37	129.35	122.34
1	lg	200	THR	O-C-N	-6.37	115.36	122.12
1	29	63	GLN	N-CA-C	6.37	118.31	111.36
1	lN	202	LEU	CA-C-N	6.37	129.34	120.29
1	lN	202	LEU	C-N-CA	6.37	129.34	120.29
1	2d	126	VAL	N-CA-C	6.37	119.02	111.05
1	2d	156	GLY	CA-C-N	6.37	128.60	120.89
1	2d	156	GLY	C-N-CA	6.37	128.60	120.89
1	2h	21	ASN	CA-CB-CG	6.37	118.97	112.60
1	2Q	135	ILE	CB-CA-C	6.37	120.75	112.14
1	3m	90	PRO	N-CA-C	6.37	121.65	111.26
1	3B	131	LYS	N-CA-C	6.37	118.23	111.28
1	3W	73	ILE	N-CA-C	6.37	117.12	110.62
1	43	146	SER	O-C-N	-6.37	114.66	121.42
1	4b	95	GLN	O-C-N	-6.37	115.92	123.06
1	58	80	TRP	CB-CG-CD2	6.37	135.72	126.80
1	5q	24	VAL	O-C-N	6.37	128.40	121.83
1	5U	84	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	5W	166	ASP	CA-CB-CG	6.37	118.97	112.60
1	6m	25	LYS	N-CA-C	6.37	117.89	111.07
1	6u	24	VAL	O-C-N	-6.37	115.27	121.90
1	6M	82	ARG	NH1-CZ-NH2	-6.37	111.01	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6O	141	ILE	N-CA-CB	6.37	117.58	110.51
1	7O	163	ASP	CA-C-N	6.37	128.72	120.44
1	7O	163	ASP	C-N-CA	6.37	128.72	120.44
1	81	192	GLN	CA-C-O	6.37	127.27	120.70
1	89	12	HIS	CE1-NE2-CD2	-6.37	102.63	109.00
1	8b	215	MET	CG-SD-CE	-6.37	86.88	100.90
1	8K	117	TRP	N-CA-C	6.37	119.04	111.71
1	8U	68	MET	O-C-N	-6.37	114.88	122.15
1	8V	210	THR	CA-C-N	6.37	128.73	120.44
1	8V	210	THR	C-N-CA	6.37	128.73	120.44
1	99	54	THR	O-C-N	-6.37	114.76	122.22
1	9n	1	PRO	CA-N-CD	-6.37	103.08	112.00
1	9A	195	ASN	CA-CB-CG	6.37	118.97	112.60
1	a2	219	GLN	CA-C-N	6.37	128.32	120.22
1	a2	219	GLN	C-N-CA	6.37	128.32	120.22
1	aq	26	VAL	O-C-N	-6.37	115.57	121.94
1	aI	118	MET	CA-C-O	6.37	126.76	119.18
1	bg	135	ILE	O-C-N	-6.37	115.69	121.87
1	bi	226	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	bx	168	PHE	O-C-N	-6.37	115.50	122.07
1	bJ	173	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	ce	21	ASN	CA-C-O	6.37	127.30	120.10
1	1e	6	LEU	CA-C-N	6.37	133.71	121.54
1	1e	6	LEU	C-N-CA	6.37	133.71	121.54
1	cF	130	TYR	CA-C-O	6.37	127.31	120.55
1	di	50	GLN	N-CA-C	6.37	118.23	111.28
1	dl	54	THR	CA-CB-OG1	6.37	119.16	109.60
1	dm	224	PRO	CA-C-N	6.37	127.01	120.00
1	dm	224	PRO	C-N-CA	6.37	127.01	120.00
1	1k	103	ASP	CA-C-N	6.37	130.54	120.47
1	1k	103	ASP	C-N-CA	6.37	130.54	120.47
1	e1	74	ASN	N-CA-CB	6.37	119.59	110.16
1	e3	8	GLY	CA-C-O	-6.37	118.08	122.22
1	ee	178	SER	O-C-N	-6.37	114.11	122.59
1	eA	103	ASP	CA-C-N	6.37	128.59	120.56
1	eA	103	ASP	C-N-CA	6.37	128.59	120.56
1	1s	140	LYS	CA-C-O	6.37	127.31	120.55
1	fq	24	VAL	O-C-N	-6.37	115.66	121.91
1	k	21	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	p	74	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	2	68	MET	N-CA-C	6.37	118.23	111.28
1	v	187	GLU	N-CA-C	6.37	119.21	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	160	PRO	N-CA-C	6.37	125.60	112.47
1	D	154	ARG	CA-C-O	-6.37	112.44	120.28
1	F	99	PRO	N-CA-CB	6.37	108.84	103.17
1	O	167	ARG	NH1-CZ-NH2	-6.37	111.01	119.30
1	S	56	LEU	N-CA-C	6.37	118.76	111.11
1	8	152	ASP	O-C-N	-6.37	114.42	122.26
1	gc	150	ILE	CA-CB-CG1	6.37	121.23	110.40
1	gk	200	THR	N-CA-CB	6.37	119.25	110.01
1	gn	183	ASN	CA-CB-CG	-6.37	106.23	112.60
1	gq	89	GLY	O-C-N	-6.37	115.40	121.77
1	1E	165	VAL	CB-CA-C	6.37	120.03	111.88
1	h6	103	ASP	CA-C-N	6.37	129.51	120.53
1	h6	103	ASP	C-N-CA	6.37	129.51	120.53
1	hm	193	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	1K	219	GLN	N-CA-C	6.37	119.86	110.30
1	i0	78	ALA	N-CA-C	6.37	117.89	111.07
1	ib	93	PRO	CA-C-N	6.37	133.90	121.41
1	ib	93	PRO	C-N-CA	6.37	133.90	121.41
1	if	134	ILE	N-CA-CB	6.37	118.72	110.57
1	iU	65	ALA	N-CA-C	6.37	117.89	111.07
1	j1	173	ARG	NH1-CZ-NH2	-6.37	111.02	119.30
1	j7	57	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	j7	92	GLU	CA-C-N	6.37	127.80	119.84
1	j7	92	GLU	C-N-CA	6.37	127.80	119.84
1	jh	163	ASP	CA-CB-CG	6.37	118.97	112.60
1	jk	193	ASN	CA-C-O	6.37	126.81	119.35
1	jt	48	THR	O-C-N	-6.37	113.99	121.32
1	jA	195	ASN	CA-CB-CG	6.37	118.97	112.60
1	jK	134	ILE	N-CA-C	6.37	117.05	110.36
1	k0	76	GLU	CA-C-N	6.37	129.14	120.54
1	k0	76	GLU	C-N-CA	6.37	129.14	120.54
1	k3	167	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	kg	167	ARG	NH1-CZ-NH2	-6.37	111.02	119.30
1	kr	33	SER	N-CA-C	-6.37	100.81	108.14
1	kB	224	PRO	N-CA-C	6.37	121.34	111.21
1	kC	172	LEU	O-C-N	-6.37	115.37	122.12
1	kL	7	GLN	N-CA-C	6.37	119.47	110.23
1	kM	82	ARG	CA-C-N	6.37	129.14	120.54
1	kM	82	ARG	C-N-CA	6.37	129.14	120.54
1	kQ	212	GLU	CA-C-N	6.37	130.00	120.31
1	kQ	212	GLU	C-N-CA	6.37	130.00	120.31
1	lh	102	SER	CA-C-N	6.37	129.34	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	102	SER	C-N-CA	6.37	129.34	120.29
1	lk	176	GLN	OE1-CD-NE2	-6.37	116.23	122.60
1	lG	175	GLU	O-C-N	-6.37	115.34	122.86
1	lK	103	ASP	N-CA-C	6.37	118.31	111.36
1	2O	37	ILE	CA-C-O	-6.37	111.41	119.95
1	2U	21	ASN	CA-CB-CG	-6.37	106.23	112.60
1	3g	144	MET	CA-C-O	6.37	126.81	119.35
1	3l	15	ILE	CA-C-N	6.37	129.94	120.83
1	3l	15	ILE	C-N-CA	6.37	129.94	120.83
1	3n	20	LEU	N-CA-C	6.37	118.31	111.36
1	3Z	167	ARG	N-CA-C	6.37	119.04	111.71
1	44	16	SER	CA-C-N	6.37	126.58	119.32
1	44	16	SER	C-N-CA	6.37	126.58	119.32
1	4e	115	ILE	O-C-N	-6.37	115.69	121.87
1	4J	56	LEU	N-CA-CB	6.37	120.03	110.22
1	4N	55	MET	O-C-N	-6.37	115.51	122.07
1	53	195	ASN	OD1-CG-ND2	6.37	128.97	122.60
1	56	200	THR	CA-C-N	6.37	129.19	120.46
1	56	200	THR	C-N-CA	6.37	129.19	120.46
1	5o	50	GLN	N-CA-C	6.37	118.22	111.28
1	5y	202	LEU	O-C-N	-6.37	115.51	122.07
1	5H	19	THR	N-CA-C	6.37	118.22	111.28
1	5Z	41	SER	CA-C-O	-6.37	113.80	120.55
1	62	200	THR	N-CA-C	6.37	118.23	111.28
1	6h	218	CYS	CA-C-O	6.37	129.62	120.51
1	7I	54	THR	CA-C-N	6.37	129.14	120.54
1	7I	54	THR	C-N-CA	6.37	129.14	120.54
1	8c	226	HIS	N-CA-CB	6.37	119.37	110.26
1	8g	9	GLN	O-C-N	-6.37	114.97	122.81
1	8k	86	VAL	CA-C-O	6.37	127.91	120.71
1	8B	126	VAL	CA-C-N	6.37	127.01	119.94
1	8B	126	VAL	C-N-CA	6.37	127.01	119.94
1	8X	166	ASP	CA-CB-CG	6.37	118.97	112.60
1	9q	67	GLN	N-CA-C	6.37	118.23	111.28
1	9x	124	ILE	CB-CG1-CD1	6.37	127.18	113.80
1	9Q	92	GLU	O-C-N	-6.37	114.40	121.66
1	a2	143	ARG	N-CA-C	-6.37	105.51	113.28
1	an	129	ILE	N-CA-C	6.37	116.54	110.42
1	ar	29	GLU	N-CA-C	6.37	121.41	112.93
1	aA	57	ASN	CA-C-N	6.37	128.82	120.28
1	aA	57	ASN	C-N-CA	6.37	128.82	120.28
1	15	140	LYS	O-C-N	-6.37	115.46	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	158	LYS	CA-C-O	6.37	125.91	118.90
1	bU	149	SER	O-C-N	-6.37	115.20	122.97
1	ce	119	THR	N-CA-C	-6.37	105.44	113.72
1	cu	12	HIS	CG-CD2-NE2	6.37	113.57	107.20
1	cu	204	ALA	CA-C-N	6.37	130.00	120.31
1	cu	204	ALA	C-N-CA	6.37	130.00	120.31
1	cF	92	GLU	CA-C-N	6.37	126.40	119.90
1	cF	92	GLU	C-N-CA	6.37	126.40	119.90
1	cI	36	VAL	N-CA-C	6.37	119.06	111.09
1	cP	120	HIS	CB-CG-CD2	-6.37	122.92	131.20
1	cR	37	ILE	CA-C-N	6.37	125.87	119.24
1	cR	37	ILE	C-N-CA	6.37	125.87	119.24
1	dk	21	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	dk	89	GLY	O-C-N	-6.37	115.40	121.77
1	do	15	ILE	O-C-N	-6.37	115.69	122.83
1	dq	92	GLU	CA-C-N	6.37	127.80	119.84
1	dq	92	GLU	C-N-CA	6.37	127.80	119.84
1	dJ	136	LEU	CA-C-N	6.37	127.05	119.98
1	dJ	136	LEU	C-N-CA	6.37	127.05	119.98
1	dQ	98	GLU	CA-C-N	6.37	126.71	119.83
1	dQ	98	GLU	C-N-CA	6.37	126.71	119.83
1	eg	228	ALA	N-CA-C	6.37	119.15	110.55
1	ev	143	ARG	N-CA-C	6.37	118.23	111.28
1	eJ	143	ARG	NE-CZ-NH2	-6.37	113.47	119.20
1	1t	184	TRP	N-CA-C	6.37	119.04	111.33
1	eS	24	VAL	CA-C-N	6.37	128.82	120.28
1	eS	24	VAL	C-N-CA	6.37	128.82	120.28
1	ff	9	GLN	O-C-N	-6.37	114.91	123.19
1	fg	99	PRO	O-C-N	6.37	130.91	123.01
1	fp	62	HIS	ND1-CG-CD2	6.37	112.47	106.10
1	ft	65	ALA	CA-C-N	6.37	128.82	120.28
1	ft	65	ALA	C-N-CA	6.37	128.82	120.28
1	fA	69	LEU	N-CA-C	6.37	117.89	111.07
1	1y	48	THR	CA-C-N	6.37	126.29	119.28
1	1y	48	THR	C-N-CA	6.37	126.29	119.28
1	fI	173	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	fL	131	LYS	N-CA-C	6.37	118.22	111.28
1	n	55	MET	O-C-N	-6.37	115.51	122.07
1	t	167	ARG	CA-C-N	6.37	128.72	120.44
1	t	167	ARG	C-N-CA	6.37	128.72	120.44
1	v	115	ILE	N-CA-CB	6.37	120.14	110.58
1	A	82	ARG	NH1-CZ-NH2	-6.37	111.02	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	195	ASN	CA-C-N	6.37	127.80	119.84
1	3	195	ASN	C-N-CA	6.37	127.80	119.84
1	N	194	ALA	O-C-N	-6.37	115.53	122.79
1	S	181	VAL	CB-CA-C	-6.37	103.67	112.02
1	gX	166	ASP	CA-CB-CG	6.37	118.97	112.60
1	h1	200	THR	CA-C-N	6.37	128.59	120.56
1	h1	200	THR	C-N-CA	6.37	128.59	120.56
1	h3	160	PRO	N-CA-C	6.37	125.59	112.47
1	h9	79	GLU	N-CA-C	6.37	118.22	111.28
1	hm	184	TRP	CB-CG-CD2	-6.37	117.88	126.80
1	hT	101	GLY	N-CA-C	6.37	120.37	112.73
1	iy	82	ARG	N-CA-C	6.37	118.22	111.28
1	iX	212	GLU	O-C-N	-6.37	115.37	122.12
1	1V	143	ARG	O-C-N	-6.37	115.37	122.12
1	js	50	GLN	N-CA-C	6.37	118.22	111.28
1	l9	169	TYR	O-C-N	-6.37	114.89	122.15
1	lj	20	LEU	N-CA-C	6.37	119.04	111.33
1	2R	80	TRP	CE2-CD2-CE3	6.37	125.17	118.80
1	34	62	HIS	CA-CB-CG	-6.37	107.43	113.80
1	3b	203	LYS	N-CA-CB	6.37	119.25	110.01
1	3A	193	ASN	CA-C-N	6.37	129.75	120.71
1	3A	193	ASN	C-N-CA	6.37	129.75	120.71
1	3G	74	ASN	CA-CB-CG	-6.37	106.23	112.60
1	3S	145	TYR	O-C-N	-6.37	113.13	122.43
1	3T	179	GLN	OE1-CD-NE2	-6.37	116.23	122.60
1	45	225	GLY	O-C-N	-6.37	116.28	122.84
1	4p	24	VAL	O-C-N	-6.37	115.47	121.90
1	4w	19	THR	O-C-N	-6.37	115.51	122.07
1	51	26	VAL	CA-CB-CG1	6.37	121.23	110.40
1	5z	27	VAL	N-CA-C	6.37	117.88	110.62
1	5U	74	ASN	CA-CB-CG	-6.37	106.23	112.60
1	5U	91	ILE	O-C-N	-6.37	116.36	122.98
1	74	200	THR	O-C-N	-6.37	115.37	122.12
1	7d	12	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	7r	28	GLU	N-CA-CB	6.37	119.25	110.01
1	8h	152	ASP	CA-CB-CG	6.37	118.97	112.60
1	8B	26	VAL	O-C-N	6.37	130.55	121.82
1	9o	167	ARG	CA-C-N	6.37	128.72	120.44
1	9o	167	ARG	C-N-CA	6.37	128.72	120.44
1	9A	13	GLN	O-C-N	-6.37	115.99	123.25
1	9L	4	GLN	CA-C-O	6.37	128.31	121.05
1	ab	96	MET	O-C-N	-6.37	116.61	123.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16	182	LYS	N-CA-C	6.37	119.04	111.33
1	bb	48	THR	CA-C-N	6.37	126.86	119.47
1	bb	48	THR	C-N-CA	6.37	126.86	119.47
1	bm	39	MET	CG-SD-CE	-6.37	86.89	100.90
1	dj	63	GLN	OE1-CD-NE2	-6.37	116.23	122.60
1	1n	99	PRO	N-CA-CB	6.37	109.00	103.27
1	e4	67	GLN	CB-CG-CD	6.37	123.43	112.60
1	eE	5	ASN	O-C-N	-6.37	115.82	123.27
1	fj	130	TYR	CA-C-N	6.37	129.14	120.54
1	fj	130	TYR	C-N-CA	6.37	129.14	120.54
1	ft	2	ILE	N-CA-C	6.37	116.99	110.05
1	fw	92	GLU	O-C-N	-6.37	115.09	121.27
1	F	195	ASN	CA-C-O	-6.37	113.49	121.01
1	G	25	LYS	CA-CB-CG	6.37	126.84	114.10
1	4	189	LEU	CB-CA-C	6.37	120.96	110.90
1	g8	120	HIS	CG-CD2-NE2	6.37	113.57	107.20
1	gh	175	GLU	CA-C-O	6.37	126.99	119.28
1	gv	10	MET	N-CA-C	6.37	119.27	110.35
1	gv	205	LEU	CD1-CG-CD2	-6.37	96.79	110.80
1	gL	223	GLY	CA-C-N	6.37	127.80	119.84
1	gL	223	GLY	C-N-CA	6.37	127.80	119.84
1	hb	184	TRP	CB-CA-C	6.37	120.88	110.88
1	ht	41	SER	CB-CA-C	-6.37	100.62	110.81
1	ic	136	LEU	CA-C-N	6.37	127.01	120.00
1	ic	136	LEU	C-N-CA	6.37	127.01	120.00
1	1O	209	ALA	N-CA-C	6.37	118.94	110.53
1	ih	71	GLU	N-CA-CB	6.37	119.48	110.12
1	ij	221	VAL	CA-C-N	6.37	133.89	121.41
1	ij	221	VAL	C-N-CA	6.37	133.89	121.41
1	it	24	VAL	O-C-N	-6.37	115.69	121.87
1	iO	72	THR	CA-CB-OG1	6.37	119.15	109.60
1	jz	26	VAL	N-CA-CB	6.37	122.30	110.77
1	kz	125	PRO	N-CA-CB	-6.37	98.08	102.73
1	kI	206	GLY	CA-C-N	6.37	125.99	119.56
1	kI	206	GLY	C-N-CA	6.37	125.99	119.56
1	l9	77	ALA	CA-C-N	6.37	128.81	120.28
1	l9	77	ALA	C-N-CA	6.37	128.81	120.28
1	lm	226	HIS	CA-C-N	6.37	131.18	122.07
1	lm	226	HIS	C-N-CA	6.37	131.18	122.07
1	lv	200	THR	CA-C-N	6.37	128.59	120.56
1	lv	200	THR	C-N-CA	6.37	128.59	120.56
1	lA	138	LEU	O-C-N	-6.37	115.47	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lK	84	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	lN	25	LYS	O-C-N	-6.37	115.37	122.12
1	lN	214	MET	CA-C-O	6.37	127.29	119.97
1	lQ	42	ALA	N-CA-C	6.37	118.22	111.28
1	2g	16	SER	O-C-N	-6.37	113.55	121.64
1	2y	41	SER	N-CA-CB	6.37	119.48	110.12
1	2A	71	GLU	CA-C-N	6.37	128.81	120.28
1	2A	71	GLU	C-N-CA	6.37	128.81	120.28
1	2N	96	MET	O-C-N	-6.37	115.48	123.12
1	2O	91	ILE	CB-CA-C	6.37	118.58	111.45
1	33	148	THR	N-CA-CB	6.37	122.26	110.99
1	3n	113	GLU	CA-C-N	6.37	128.81	120.28
1	3n	113	GLU	C-N-CA	6.37	128.81	120.28
1	3B	122	PRO	N-CA-CB	6.37	109.61	102.60
1	3W	195	ASN	OD1-CG-ND2	-6.37	116.23	122.60
1	40	80	TRP	N-CA-C	6.37	117.88	111.07
1	49	75	GLU	CA-C-N	6.37	128.81	120.28
1	49	75	GLU	C-N-CA	6.37	128.81	120.28
1	4l	164	TYR	CB-CG-CD1	6.37	130.35	120.80
1	4z	189	LEU	CA-C-O	6.37	127.30	120.55
1	4E	185	MET	N-CA-C	6.37	118.22	111.28
1	54	54	THR	N-CA-C	6.37	118.22	111.28
1	5d	62	HIS	CB-CG-CD2	-6.37	122.92	131.20
1	5q	9	GLN	O-C-N	-6.37	114.86	122.63
1	5t	188	THR	CA-C-N	6.37	129.14	120.54
1	5t	188	THR	C-N-CA	6.37	129.14	120.54
1	5t	189	LEU	N-CA-C	6.37	118.75	111.11
1	5v	136	LEU	CA-C-O	6.37	127.17	120.42
1	69	66	MET	O-C-N	-6.37	115.37	122.12
1	6K	50	GLN	N-CA-C	6.37	117.88	111.07
1	7n	110	THR	N-CA-CB	6.37	120.10	110.42
1	7P	167	ARG	CA-C-N	6.37	128.72	120.44
1	7P	167	ARG	C-N-CA	6.37	128.72	120.44
1	80	143	ARG	CA-C-N	6.37	128.72	120.44
1	80	143	ARG	C-N-CA	6.37	128.72	120.44
1	80	145	TYR	O-C-N	-6.37	115.37	122.12
1	83	186	THR	CA-C-N	6.37	129.45	120.28
1	83	186	THR	C-N-CA	6.37	129.45	120.28
1	8j	26	VAL	N-CA-CB	6.37	118.00	110.55
1	8k	14	ALA	N-CA-C	6.37	118.52	110.24
1	8t	141	ILE	N-CA-C	6.37	117.88	110.62
1	8Q	28	GLU	CA-C-N	6.37	129.14	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Q	28	GLU	C-N-CA	6.37	129.14	120.54
1	8R	180	GLU	CA-C-N	6.37	128.58	120.56
1	8R	180	GLU	C-N-CA	6.37	128.58	120.56
1	95	202	LEU	N-CA-C	6.37	118.22	111.28
1	9C	4	GLN	CA-C-O	6.37	128.16	121.15
1	9D	121	ASN	CA-CB-CG	-6.37	106.23	112.60
1	9M	65	ALA	N-CA-C	6.37	118.22	111.28
1	aa	127	GLY	N-CA-C	6.37	119.89	112.50
1	av	84	HIS	O-C-N	-6.37	113.86	121.12
1	13	146	SER	O-C-N	-6.37	114.91	121.28
1	13	190	LEU	CA-C-O	-6.37	113.75	120.63
1	aL	202	LEU	N-CA-C	6.37	118.22	111.28
1	bd	141	ILE	CA-C-N	6.37	128.58	120.56
1	bd	141	ILE	C-N-CA	6.37	128.58	120.56
1	c0	39	MET	CG-SD-CE	-6.37	86.89	100.90
1	ct	80	TRP	CA-C-N	6.37	128.72	120.44
1	ct	80	TRP	C-N-CA	6.37	128.72	120.44
1	cw	221	VAL	N-CA-C	6.37	117.30	108.89
1	cG	168	PHE	CB-CA-C	6.37	120.88	110.88
1	cM	143	ARG	CA-C-N	6.37	129.10	120.44
1	cM	143	ARG	C-N-CA	6.37	129.10	120.44
1	cY	120	HIS	CA-CB-CG	6.37	120.17	113.80
1	do	177	ALA	CA-C-N	6.37	130.18	120.82
1	do	177	ALA	C-N-CA	6.37	130.18	120.82
1	dz	141	ILE	N-CA-CB	6.37	118.00	110.55
1	dz	155	GLN	O-C-N	-6.37	115.98	123.11
1	dA	162	ARG	CA-C-O	-6.37	114.09	120.90
1	ea	57	ASN	N-CA-C	6.37	117.89	111.07
1	es	110	THR	N-CA-CB	6.37	119.97	110.29
1	ew	120	HIS	CB-CG-CD2	-6.37	122.92	131.20
1	f6	35	GLU	N-CA-C	6.37	119.03	111.71
1	f9	18	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	fg	39	MET	CA-C-N	6.37	128.81	120.28
1	fg	39	MET	C-N-CA	6.37	128.81	120.28
1	ft	126	VAL	N-CA-C	6.37	117.12	110.62
1	fR	165	VAL	CA-C-N	6.37	129.06	120.65
1	fR	165	VAL	C-N-CA	6.37	129.06	120.65
1	fY	170	LYS	CA-C-N	6.37	128.72	120.44
1	fY	170	LYS	C-N-CA	6.37	128.72	120.44
1	fY	197	ASP	CA-CB-CG	6.37	118.97	112.60
1	g	52	LEU	N-CA-C	6.37	118.75	111.11
1	w	225	GLY	O-C-N	-6.37	117.74	122.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	97	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	L	112	GLN	O-C-N	-6.37	115.37	122.12
1	gx	173	ARG	NH1-CZ-NH2	-6.37	111.02	119.30
1	gE	63	GLN	CA-C-N	6.37	129.14	120.54
1	gE	63	GLN	C-N-CA	6.37	129.14	120.54
1	gV	197	ASP	CA-C-N	6.37	128.72	120.44
1	gV	197	ASP	C-N-CA	6.37	128.72	120.44
1	hn	19	THR	N-CA-C	6.37	117.88	111.07
1	hQ	12	HIS	CE1-NE2-CD2	-6.37	102.63	109.00
1	hW	113	GLU	CA-C-O	6.37	127.17	120.42
1	i0	89	GLY	CA-C-N	6.37	126.74	119.93
1	i0	89	GLY	C-N-CA	6.37	126.74	119.93
1	iA	21	ASN	CA-C-N	6.37	128.81	120.28
1	iA	21	ASN	C-N-CA	6.37	128.81	120.28
1	iZ	84	HIS	CA-C-O	-6.37	113.76	120.70
1	jo	61	GLY	CA-C-N	6.37	131.18	122.07
1	jo	61	GLY	C-N-CA	6.37	131.18	122.07
1	jv	36	VAL	CA-C-N	6.37	125.42	120.33
1	jv	36	VAL	C-N-CA	6.37	125.42	120.33
1	kd	111	LEU	N-CA-C	6.37	118.22	111.28
1	22	149	SER	O-C-N	-6.37	115.59	122.85
1	lk	81	ASP	N-CA-C	6.37	118.22	111.28
1	2e	140	LYS	CA-C-N	6.37	128.58	120.56
1	2e	140	LYS	C-N-CA	6.37	128.58	120.56
1	3p	91	ILE	N-CA-C	6.37	117.87	109.21
1	3r	111	LEU	N-CA-C	6.37	118.22	111.28
1	3y	84	HIS	O-C-N	-6.37	116.07	121.23
1	3P	179	GLN	CA-C-N	6.37	129.10	120.38
1	3P	179	GLN	C-N-CA	6.37	129.10	120.38
1	48	138	LEU	O-C-N	6.37	128.63	122.07
1	4w	67	GLN	CG-CD-NE2	6.37	125.95	116.40
1	4A	109	SER	CA-C-O	6.37	127.32	120.38
1	4E	47	ALA	CA-C-N	6.37	130.36	120.68
1	4E	47	ALA	C-N-CA	6.37	130.36	120.68
1	5Z	14	ALA	O-C-N	-6.37	115.10	122.93
1	6v	117	TRP	CB-CG-CD2	6.37	135.71	126.80
1	7b	18	ARG	N-CA-CB	-6.37	100.41	110.28
1	7y	66	MET	N-CA-C	6.37	119.03	111.71
1	8g	152	ASP	CA-CB-CG	6.37	118.97	112.60
1	8p	31	ALA	N-CA-C	6.37	118.22	111.28
1	9b	129	ILE	CA-C-O	6.37	127.92	121.17
1	9H	10	MET	CB-CA-C	-6.37	98.22	109.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9I	29	GLU	N-CA-C	6.37	118.22	111.28
1	ak	159	GLU	N-CA-CB	6.37	120.39	110.01
1	az	117	TRP	N-CA-C	6.37	118.30	111.36
1	aJ	123	PRO	N-CA-CB	-6.37	97.64	103.31
1	be	26	VAL	N-CA-C	6.37	116.53	110.42
1	bl	51	ASP	CA-C-O	6.37	127.30	120.55
1	bF	178	SER	O-C-N	-6.37	114.67	122.82
1	bH	132	ARG	O-C-N	-6.37	114.44	122.27
1	bP	209	ALA	CA-C-N	6.37	131.63	120.87
1	bP	209	ALA	C-N-CA	6.37	131.63	120.87
1	cD	36	VAL	N-CA-CB	6.37	119.20	110.54
1	dd	118	MET	CA-C-O	6.37	127.33	119.05
1	dt	230	VAL	N-CA-CB	6.37	119.35	110.56
1	dT	121	ASN	CB-CA-C	6.37	118.63	110.16
1	eN	56	LEU	CB-CA-C	-6.37	100.03	110.85
1	i	190	LEU	CA-C-O	6.37	127.30	120.55
1	4	36	VAL	N-CA-C	6.37	117.88	110.62
1	R	168	PHE	N-CA-C	6.37	117.88	111.07
1	gn	179	GLN	O-C-N	-6.37	115.37	122.12
1	gB	143	ARG	CA-C-N	6.37	128.81	120.28
1	gB	143	ARG	C-N-CA	6.37	128.81	120.28
1	hi	55	MET	N-CA-CB	6.37	119.24	110.01
1	hr	98	GLU	O-C-N	-6.37	115.90	121.31
1	hr	178	SER	CA-C-N	6.37	128.81	120.28
1	hr	178	SER	C-N-CA	6.37	128.81	120.28
1	hW	133	TRP	CA-C-N	6.37	128.66	120.70
1	hW	133	TRP	C-N-CA	6.37	128.66	120.70
1	hZ	135	ILE	N-CA-CB	6.37	119.20	110.54
1	il	13	GLN	CG-CD-NE2	6.37	125.95	116.40
1	io	142	VAL	CB-CA-C	-6.37	103.55	112.14
1	ir	62	HIS	N-CA-C	6.37	119.87	111.28
1	iH	168	PHE	N-CA-C	6.37	117.88	111.07
1	iO	82	ARG	O-C-N	-6.37	115.51	122.07
1	iS	161	PHE	CA-C-O	-6.37	113.80	120.55
1	ju	146	SER	N-CA-C	6.37	117.92	109.83
1	jv	69	LEU	CA-C-O	-6.37	114.14	120.82
1	jy	53	ASN	O-C-N	-6.37	114.89	122.15
1	jC	25	LYS	N-CA-CB	6.37	119.24	110.01
1	jC	29	GLU	CA-C-N	6.37	132.22	122.29
1	jC	29	GLU	C-N-CA	6.37	132.22	122.29
1	jI	84	HIS	ND1-CE1-NE2	6.37	114.77	108.40
1	jN	130	TYR	CB-CG-CD1	6.37	130.35	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Y	86	VAL	CB-CA-C	-6.37	103.05	111.13
1	1Y	167	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	kQ	132	ARG	O-C-N	-6.37	113.80	122.33
1	25	162	ARG	CA-C-N	6.37	128.71	120.44
1	25	162	ARG	C-N-CA	6.37	128.71	120.44
1	l2	205	LEU	O-C-N	-6.37	115.37	122.12
1	2n	14	ALA	CA-C-N	6.37	129.03	120.50
1	2n	14	ALA	C-N-CA	6.37	129.03	120.50
1	2M	186	THR	N-CA-C	6.37	119.20	111.82
1	2Y	97	ARG	NE-CZ-NH1	6.37	127.87	121.50
1	3z	4	GLN	O-C-N	-6.37	115.12	122.89
1	3Q	124	ILE	O-C-N	6.37	127.04	121.12
1	40	128	GLU	N-CA-CB	6.37	119.24	110.01
1	4H	126	VAL	CA-CB-CG2	6.37	121.22	110.40
1	4P	192	GLN	N-CA-C	6.37	118.30	111.36
1	4U	35	GLU	N-CA-C	6.37	120.62	112.34
1	52	71	GLU	N-CA-C	6.37	117.88	111.07
1	53	166	ASP	CA-CB-CG	-6.37	106.23	112.60
1	5p	70	LYS	CA-C-N	6.37	128.72	120.44
1	5p	70	LYS	C-N-CA	6.37	128.72	120.44
1	5s	13	GLN	O-C-N	-6.37	115.76	123.27
1	5B	16	SER	CA-C-O	-6.37	114.27	120.19
1	5J	135	ILE	O-C-N	-6.37	115.27	121.83
1	5K	182	LYS	N-CA-C	6.37	117.88	111.07
1	5S	209	ALA	CB-CA-C	-6.37	97.75	110.42
1	6H	207	PRO	N-CA-CB	-6.37	96.57	103.25
1	6L	35	GLU	CA-C-N	6.37	128.81	120.60
1	6L	35	GLU	C-N-CA	6.37	128.81	120.60
1	6V	92	GLU	N-CA-C	6.37	117.91	109.83
1	7o	132	ARG	NE-CZ-NH2	6.37	124.93	119.20
1	7I	97	ARG	CA-C-N	6.37	129.53	120.49
1	7I	97	ARG	C-N-CA	6.37	129.53	120.49
1	7J	32	PHE	CA-CB-CG	-6.37	107.43	113.80
1	88	162	ARG	NE-CZ-NH1	6.37	127.86	121.50
1	8h	149	SER	O-C-N	-6.37	115.93	123.06
1	8y	82	ARG	NE-CZ-NH2	-6.37	113.47	119.20
1	8Z	10	MET	O-C-N	-6.37	115.77	122.96
1	9c	171	THR	O-C-N	-6.37	113.74	122.46
1	9E	85	PRO	N-CA-CB	-6.37	96.70	103.38
1	10	21	ASN	N-CA-C	6.37	118.22	111.28
1	ah	213	GLU	CA-C-N	6.37	129.99	120.31
1	ah	213	GLU	C-N-CA	6.37	129.99	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	32	PHE	CA-CB-CG	-6.37	107.44	113.80
1	av	128	GLU	N-CA-C	6.37	117.88	111.07
1	aP	24	VAL	O-C-N	-6.37	115.69	121.87
1	aP	89	GLY	CA-C-N	6.37	126.38	119.89
1	aP	89	GLY	C-N-CA	6.37	126.38	119.89
1	15	218	CYS	CA-C-N	6.37	130.44	121.02
1	15	218	CYS	C-N-CA	6.37	130.44	121.02
1	b2	180	GLU	N-CA-C	6.37	119.03	111.71
1	b6	141	ILE	O-C-N	-6.37	115.44	121.87
1	bA	18	ARG	NE-CZ-NH1	6.37	127.86	121.50
1	bG	10	MET	CA-C-N	6.37	129.20	120.35
1	bG	10	MET	C-N-CA	6.37	129.20	120.35
1	bT	23	TRP	CB-CG-CD2	6.37	135.71	126.80
1	cp	123	PRO	CA-C-N	6.37	130.11	122.85
1	cp	123	PRO	C-N-CA	6.37	130.11	122.85
1	cO	15	ILE	N-CA-C	6.37	118.80	109.63
1	cO	179	GLN	N-CA-C	-6.37	104.34	111.28
1	cV	63	GLN	N-CA-C	6.37	119.03	111.71
1	1j	113	GLU	CA-C-N	6.37	129.64	120.79
1	1j	113	GLU	C-N-CA	6.37	129.64	120.79
1	dD	81	ASP	CA-C-O	6.37	127.29	119.97
1	dG	126	VAL	CA-C-N	6.37	126.88	119.94
1	dG	126	VAL	C-N-CA	6.37	126.88	119.94
1	dY	107	THR	CA-C-N	6.37	131.40	122.36
1	dY	107	THR	C-N-CA	6.37	131.40	122.36
1	e2	9	GLN	OE1-CD-NE2	-6.37	116.23	122.60
1	e2	84	HIS	CA-C-N	6.37	126.70	119.83
1	e2	84	HIS	C-N-CA	6.37	126.70	119.83
1	e3	50	GLN	O-C-N	-6.37	114.89	122.15
1	ew	27	VAL	O-C-N	-6.37	114.61	121.80
1	eJ	51	ASP	CB-CA-C	-6.37	100.22	110.79
1	1t	206	GLY	O-C-N	-6.37	115.41	121.77
1	eR	40	PHE	CA-C-N	6.37	129.33	120.29
1	eR	40	PHE	C-N-CA	6.37	129.33	120.29
1	1u	181	VAL	N-CA-C	6.37	116.53	110.42
1	f2	58	THR	N-CA-CB	6.37	119.61	110.06
1	f3	141	ILE	CA-C-N	6.37	129.18	120.46
1	f3	141	ILE	C-N-CA	6.37	129.18	120.46
1	f4	203	LYS	N-CA-C	6.37	118.30	111.36
1	fo	63	GLN	N-CA-C	6.37	119.03	111.33
1	fO	103	ASP	CA-C-N	6.37	129.18	120.46
1	fO	103	ASP	C-N-CA	6.37	129.18	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	70	LYS	CG-CD-CE	6.37	125.94	111.30
1	0	194	ALA	N-CA-CB	-6.37	101.34	110.44
1	0	229	ARG	CA-C-O	6.37	127.94	121.07
1	b	90	PRO	N-CA-C	6.37	120.83	111.03
1	g	154	ARG	NH1-CZ-NH2	-6.37	111.03	119.30
1	j	134	ILE	CA-C-N	6.37	129.50	120.53
1	j	134	ILE	C-N-CA	6.37	129.50	120.53
1	m	155	GLN	OE1-CD-NE2	6.37	128.97	122.60
1	t	150	ILE	CA-CB-CG1	6.37	121.22	110.40
1	2	14	ALA	N-CA-C	6.37	119.47	110.50
1	C	177	ALA	O-C-N	-6.37	115.93	123.06
1	T	136	LEU	O-C-N	-6.37	115.37	122.12
1	gi	50	GLN	CA-C-O	6.36	127.50	120.82
1	gi	84	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	gj	13	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	go	87	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	gr	126	VAL	N-CA-C	6.36	117.11	110.62
1	gv	135	ILE	N-CA-C	6.36	117.11	110.62
1	gR	4	GLN	CA-C-O	6.36	128.85	121.28
1	h9	107	THR	N-CA-CB	6.36	119.06	110.59
1	ho	226	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	hG	126	VAL	CA-C-N	6.36	126.88	119.94
1	hG	126	VAL	C-N-CA	6.36	126.88	119.94
1	1L	123	PRO	CB-CA-C	6.36	119.38	110.60
1	hM	189	LEU	CA-C-N	6.36	129.13	120.54
1	hM	189	LEU	C-N-CA	6.36	129.13	120.54
1	hM	212	GLU	CA-C-N	6.36	128.71	120.44
1	hM	212	GLU	C-N-CA	6.36	128.71	120.44
1	hZ	167	ARG	NE-CZ-NH2	6.36	124.93	119.20
1	ip	128	GLU	CA-C-N	6.36	128.58	120.56
1	ip	128	GLU	C-N-CA	6.36	128.58	120.56
1	iy	226	HIS	CB-CG-CD2	-6.36	122.93	131.20
1	iF	84	HIS	CA-C-N	6.36	126.74	119.93
1	iF	84	HIS	C-N-CA	6.36	126.74	119.93
1	iJ	73	ILE	CA-C-N	6.36	128.81	120.28
1	iJ	73	ILE	C-N-CA	6.36	128.81	120.28
1	iP	87	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	j8	167	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	jE	48	THR	N-CA-C	6.36	117.45	110.13
1	jN	27	VAL	O-C-N	-6.36	115.70	121.87
1	km	74	ASN	N-CA-C	6.36	119.20	111.82
1	ky	25	LYS	O-C-N	-6.36	115.52	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lc	36	VAL	CA-C-N	6.36	125.42	120.33
1	lc	36	VAL	C-N-CA	6.36	125.42	120.33
1	ls	92	GLU	CA-C-N	6.36	127.79	119.84
1	ls	92	GLU	C-N-CA	6.36	127.79	119.84
1	lz	121	ASN	O-C-N	-6.36	114.00	121.32
1	lA	141	ILE	O-C-N	-6.36	114.61	121.80
1	lK	205	LEU	CA-C-N	6.36	131.86	121.87
1	lK	205	LEU	C-N-CA	6.36	131.86	121.87
1	2b	59	VAL	O-C-N	-6.36	115.94	122.75
1	2l	87	HIS	O-C-N	-6.36	115.77	122.96
1	2D	112	GLN	N-CA-C	6.36	118.75	111.11
1	2G	47	ALA	CA-C-O	-6.36	113.67	120.92
1	2G	62	HIS	O-C-N	-6.36	113.88	122.41
1	2T	192	GLN	CA-C-O	6.36	127.29	119.97
1	3i	183	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	3l	93	PRO	CA-C-O	-6.36	114.42	121.23
1	3r	148	THR	O-C-N	-6.36	114.13	122.59
1	3A	62	HIS	CB-CG-CD2	-6.36	122.93	131.20
1	3O	134	ILE	N-CA-C	6.36	117.15	110.72
1	4a	89	GLY	CA-C-N	6.36	127.79	119.84
1	4a	89	GLY	C-N-CA	6.36	127.79	119.84
1	4c	179	GLN	CA-C-O	6.36	127.50	120.82
1	4l	176	GLN	O-C-N	-6.36	115.06	122.95
1	4z	131	LYS	N-CA-C	6.36	118.22	111.28
1	4L	160	PRO	CA-C-N	6.36	128.71	120.44
1	4L	160	PRO	C-N-CA	6.36	128.71	120.44
1	5p	177	ALA	N-CA-C	6.36	119.00	110.35
1	5Q	186	THR	N-CA-CB	6.36	119.47	110.12
1	5R	137	GLY	N-CA-C	6.36	119.88	112.50
1	6e	33	SER	CA-C-O	-6.36	114.77	120.56
1	6i	84	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	6l	154	ARG	O-C-N	-6.36	115.96	123.41
1	6n	47	ALA	CA-C-O	6.36	127.87	120.49
1	6T	12	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	7u	200	THR	CA-C-N	6.36	130.52	120.47
1	7u	200	THR	C-N-CA	6.36	130.52	120.47
1	7P	160	PRO	O-C-N	-6.36	114.05	122.64
1	7W	50	GLN	N-CA-C	6.36	119.03	111.71
1	81	193	ASN	CA-C-O	6.36	127.19	119.49
1	87	102	SER	N-CA-C	6.36	118.22	111.28
1	8n	5	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	8y	39	MET	CA-C-N	6.36	129.13	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8y	39	MET	C-N-CA	6.36	129.13	120.54
1	8E	184	TRP	O-C-N	-6.36	114.90	122.15
1	8H	88	ALA	CA-C-O	6.36	127.94	120.69
1	8U	107	THR	OG1-CB-CG2	-6.36	96.57	109.30
1	9g	45	GLU	CA-C-O	6.36	127.96	120.58
1	9r	104	ILE	N-CA-C	6.36	117.15	110.72
1	9u	183	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	a0	57	ASN	CA-CB-CG	-6.36	106.24	112.60
1	ak	28	GLU	N-CA-CB	-6.36	100.78	110.01
1	al	140	LYS	O-C-N	-6.36	115.37	122.12
1	aJ	56	LEU	N-CA-C	6.36	117.88	111.07
1	15	226	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	b7	162	ARG	CA-C-O	-6.36	113.67	120.42
1	br	78	ALA	CA-C-O	6.36	127.29	119.97
1	bF	151	LEU	CA-C-O	6.36	127.17	120.42
1	bT	216	THR	CA-CB-CG2	6.36	121.32	110.50
1	c1	147	PRO	N-CA-CB	6.36	108.67	103.32
1	ca	210	THR	CA-C-N	6.36	128.81	120.28
1	ca	210	THR	C-N-CA	6.36	128.81	120.28
1	cq	41	SER	CA-C-N	6.36	128.81	120.28
1	cq	41	SER	C-N-CA	6.36	128.81	120.28
1	cC	140	LYS	N-CA-C	6.36	117.88	111.07
1	cM	124	ILE	O-C-N	-6.36	117.03	121.55
1	cV	66	MET	N-CA-C	6.36	117.88	111.07
1	d0	62	HIS	O-C-N	-6.36	113.88	122.41
1	d0	136	LEU	CA-C-O	-6.36	114.14	120.70
1	df	154	ARG	NE-CZ-NH2	6.36	124.93	119.20
1	1k	48	THR	CA-C-O	-6.36	114.02	120.96
1	1k	141	ILE	O-C-N	-6.36	114.61	121.80
1	dO	97	ARG	NE-CZ-NH2	6.36	124.93	119.20
1	1o	143	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	ef	128	GLU	N-CA-C	6.36	118.22	111.28
1	en	15	ILE	N-CA-CB	6.36	117.47	110.53
1	1s	39	MET	N-CA-C	6.36	117.88	111.07
1	fn	120	HIS	CA-CB-CG	6.36	120.16	113.80
1	1y	24	VAL	N-CA-CB	6.36	118.00	110.55
1	fV	55	MET	CA-C-O	-6.36	114.14	120.82
1	g2	149	SER	N-CA-CB	6.36	121.24	110.49
1	o	150	ILE	CA-C-N	6.36	129.98	120.31
1	o	150	ILE	C-N-CA	6.36	129.98	120.31
1	r	84	HIS	N-CA-CB	-6.36	104.60	111.66
1	t	30	LYS	CA-C-N	6.36	133.69	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	30	LYS	C-N-CA	6.36	133.69	121.54
1	y	173	ARG	NE-CZ-NH2	-6.36	113.47	119.20
1	C	168	PHE	CA-C-N	6.36	128.71	120.44
1	C	168	PHE	C-N-CA	6.36	128.71	120.44
1	N	140	LYS	CB-CA-C	-6.36	100.03	110.85
1	P	85	PRO	CA-C-O	-6.36	114.42	121.23
1	6	106	GLY	CA-C-N	6.36	128.81	120.28
1	6	106	GLY	C-N-CA	6.36	128.81	120.28
1	8	103	ASP	O-C-N	-6.36	115.37	122.12
1	gd	5	ASN	N-CA-C	6.36	119.52	111.69
1	gj	221	VAL	O-C-N	-6.36	115.66	123.10
1	iw	28	GLU	N-CA-C	6.36	117.88	111.07
1	iy	32	PHE	CA-CB-CG	-6.36	107.44	113.80
1	je	68	MET	N-CA-C	6.36	118.21	111.28
1	k0	133	TRP	CA-C-O	6.36	127.29	120.55
1	k1	66	MET	O-C-N	-6.36	114.78	122.22
1	ki	160	PRO	N-CA-C	6.36	121.63	111.26
1	kT	166	ASP	CB-CA-C	6.36	120.87	110.88
1	l7	173	ARG	CD-NE-CZ	6.36	133.31	124.40
1	lN	54	THR	N-CA-C	6.36	118.75	111.11
1	3q	75	GLU	CA-C-N	6.36	128.81	120.28
1	3q	75	GLU	C-N-CA	6.36	128.81	120.28
1	3V	132	ARG	NH1-CZ-NH2	-6.36	111.03	119.30
1	5O	201	ILE	CA-C-O	6.36	127.57	120.95
1	5V	223	GLY	CA-C-N	6.36	127.79	119.84
1	5V	223	GLY	C-N-CA	6.36	127.79	119.84
1	61	98	GLU	N-CA-C	6.36	117.91	109.83
1	6n	3	VAL	CA-C-N	6.36	131.59	121.66
1	6n	3	VAL	C-N-CA	6.36	131.59	121.66
1	6T	128	GLU	N-CA-C	6.36	119.03	111.33
1	7h	133	TRP	CA-C-O	6.36	127.16	120.42
1	7A	36	VAL	CA-C-N	6.36	133.90	122.13
1	7A	36	VAL	C-N-CA	6.36	133.90	122.13
1	8g	92	GLU	CA-C-N	6.36	127.79	119.84
1	8g	92	GLU	C-N-CA	6.36	127.79	119.84
1	8g	188	THR	N-CA-CB	6.36	121.24	110.49
1	8o	168	PHE	O-C-N	6.36	128.65	122.03
1	8q	141	ILE	N-CA-C	6.36	116.53	110.42
1	8r	74	ASN	N-CA-CB	-6.36	100.77	110.12
1	8I	135	ILE	N-CA-CB	6.36	119.19	110.54
1	8Q	76	GLU	CA-C-N	6.36	129.32	120.29
1	8Q	76	GLU	C-N-CA	6.36	129.32	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9c	36	VAL	CA-C-O	6.36	127.57	120.95
1	9J	21	ASN	O-C-N	-6.36	115.38	122.12
1	9Q	192	GLN	N-CA-C	6.36	118.75	111.11
1	aI	130	TYR	CA-C-O	6.36	127.29	120.55
1	bQ	220	GLY	CA-C-O	6.36	125.83	118.96
1	bR	104	ILE	CA-CB-CG1	6.36	121.22	110.40
1	bX	171	THR	O-C-N	-6.36	114.90	122.15
1	de	192	GLN	N-CA-CB	6.36	119.47	110.12
1	dw	51	ASP	O-C-N	-6.36	115.38	122.12
1	dL	27	VAL	O-C-N	-6.36	115.28	121.83
1	et	110	THR	O-C-N	-6.36	115.60	122.85
1	eD	33	SER	CA-C-O	-6.36	114.34	120.64
1	eJ	55	MET	CB-CA-C	-6.36	100.89	110.88
1	eP	19	THR	CA-CB-OG1	6.36	119.14	109.60
1	f3	25	LYS	O-C-N	-6.36	115.38	122.12
1	fv	124	ILE	CB-CA-C	-6.36	103.46	110.52
1	M	10	MET	O-C-N	-6.36	115.49	123.12
1	U	115	ILE	O-C-N	-6.36	113.10	121.82
1	1C	145	TYR	N-CA-C	6.36	119.51	111.69
1	gk	154	ARG	CD-NE-CZ	-6.36	115.50	124.40
1	gl	11	VAL	N-CA-CB	6.36	117.65	110.72
1	gu	140	LYS	N-CA-C	6.36	118.74	111.11
1	gM	169	TYR	N-CA-CB	6.36	119.23	110.01
1	h4	65	ALA	CA-C-N	6.36	128.80	120.28
1	h4	65	ALA	C-N-CA	6.36	128.80	120.28
1	hl	140	LYS	O-C-N	-6.36	115.38	122.12
1	hr	155	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	hz	110	THR	CA-C-N	6.36	129.63	120.79
1	hz	110	THR	C-N-CA	6.36	129.63	120.79
1	i4	57	ASN	CA-C-N	6.36	128.80	120.28
1	i4	57	ASN	C-N-CA	6.36	128.80	120.28
1	iw	226	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	iE	206	GLY	CA-C-N	6.36	126.06	119.64
1	iE	206	GLY	C-N-CA	6.36	126.06	119.64
1	iN	167	ARG	CA-C-O	-6.36	112.66	119.97
1	jt	167	ARG	O-C-N	-6.36	115.38	122.12
1	ju	83	LEU	CA-C-O	6.36	127.16	120.42
1	jA	104	ILE	N-CA-C	6.36	117.11	110.62
1	jC	28	GLU	N-CA-C	6.36	118.21	111.28
1	jD	55	MET	CA-C-O	6.36	127.50	120.82
1	jG	78	ALA	N-CA-C	6.36	118.21	111.28
1	jK	92	GLU	CA-C-N	6.36	127.79	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jK	92	GLU	C-N-CA	6.36	127.79	119.84
1	jL	78	ALA	O-C-N	-6.36	115.48	122.09
1	jT	80	TRP	N-CA-C	6.36	117.88	111.07
1	kP	109	SER	CA-C-O	6.36	128.88	121.44
1	kS	73	ILE	CA-C-N	6.36	128.80	120.28
1	kS	73	ILE	C-N-CA	6.36	128.80	120.28
1	l0	165	VAL	CA-C-O	6.36	127.56	120.95
1	l7	108	THR	CA-CB-CG2	-6.36	99.69	110.50
1	lf	29	GLU	N-CA-C	6.36	119.51	111.69
1	lf	75	GLU	CA-C-N	6.36	129.09	120.44
1	lf	75	GLU	C-N-CA	6.36	129.09	120.44
1	ln	110	THR	CA-CB-OG1	6.36	119.14	109.60
1	2n	75	GLU	N-CA-C	6.36	118.21	111.28
1	2T	226	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	3n	186	THR	N-CA-CB	6.36	119.23	110.01
1	3o	96	MET	O-C-N	-6.36	115.51	123.27
1	42	21	ASN	CA-C-N	6.36	128.71	120.44
1	42	21	ASN	C-N-CA	6.36	128.71	120.44
1	42	57	ASN	N-CA-C	6.36	119.20	111.82
1	4p	64	ALA	N-CA-CB	-6.36	100.42	110.28
1	4B	31	ALA	CB-CA-C	-6.36	100.23	110.79
1	53	204	ALA	N-CA-C	6.36	118.21	111.28
1	5j	69	LEU	CA-C-N	6.36	128.71	120.44
1	5j	69	LEU	C-N-CA	6.36	128.71	120.44
1	5j	147	PRO	N-CA-CB	-6.36	96.57	103.25
1	5X	100	ARG	NH1-CZ-NH2	-6.36	111.03	119.30
1	5Z	189	LEU	N-CA-C	6.36	118.74	111.11
1	6t	184	TRP	CB-CG-CD2	6.36	135.70	126.80
1	6v	187	GLU	CA-C-O	6.36	127.16	120.42
1	6v	195	ASN	N-CA-C	6.36	117.39	109.57
1	7a	95	GLN	CA-C-O	6.36	128.96	121.58
1	7r	75	GLU	N-CA-C	6.36	117.88	111.07
1	7u	100	ARG	N-CA-C	-6.36	101.37	110.59
1	7X	10	MET	N-CA-CB	6.36	121.24	110.49
1	88	199	LYS	N-CA-C	6.36	119.03	111.33
1	8s	169	TYR	N-CA-C	6.36	119.02	111.71
1	8D	163	ASP	CA-C-N	6.36	129.44	120.28
1	8D	163	ASP	C-N-CA	6.36	129.44	120.28
1	8I	54	THR	N-CA-CB	6.36	119.23	110.01
1	8O	205	LEU	N-CA-CB	6.36	119.58	110.16
1	8P	12	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	8X	219	GLN	N-CA-C	6.36	119.03	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Z	229	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	9I	171	THR	CA-C-N	6.36	128.80	120.28
1	9I	171	THR	C-N-CA	6.36	128.80	120.28
1	9N	112	GLN	N-CA-C	6.36	118.21	111.28
1	9V	138	LEU	CA-C-O	6.36	127.29	120.10
1	ab	162	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	ao	8	GLY	CA-C-O	-6.36	117.84	122.23
1	aQ	105	ALA	N-CA-C	-6.36	105.39	113.02
1	1a	146	SER	CA-C-N	6.36	127.79	119.84
1	1a	146	SER	C-N-CA	6.36	127.79	119.84
1	bO	189	LEU	CA-C-N	6.36	128.80	120.28
1	bO	189	LEU	C-N-CA	6.36	128.80	120.28
1	bS	179	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	1c	29	GLU	N-CA-C	-6.36	105.42	113.43
1	c8	46	GLY	CA-C-N	6.36	130.14	121.05
1	c8	46	GLY	C-N-CA	6.36	130.14	121.05
1	cq	188	THR	N-CA-CB	6.36	121.24	110.49
1	cy	205	LEU	N-CA-C	6.36	119.20	111.82
1	cG	227	LYS	CA-C-O	-6.36	114.31	120.92
1	cH	79	GLU	N-CA-C	6.36	117.88	111.07
1	d2	33	SER	CA-C-O	-6.36	112.84	120.41
1	db	103	ASP	CA-C-N	6.36	128.57	120.56
1	db	103	ASP	C-N-CA	6.36	128.57	120.56
1	de	146	SER	CA-C-O	-6.36	111.45	120.16
1	dk	103	ASP	N-CA-C	-6.36	103.87	111.69
1	du	149	SER	N-CA-C	-6.36	100.56	110.17
1	dy	97	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	eA	221	VAL	O-C-N	-6.36	116.19	122.93
1	eC	194	ALA	N-CA-C	6.36	118.93	110.53
1	eE	51	ASP	CA-C-O	6.36	127.50	120.82
1	eE	146	SER	CA-C-N	6.36	127.79	119.84
1	eE	146	SER	C-N-CA	6.36	127.79	119.84
1	eX	210	THR	N-CA-C	6.36	119.00	110.35
1	fa	170	LYS	CA-C-N	6.36	129.32	120.29
1	fa	170	LYS	C-N-CA	6.36	129.32	120.29
1	1x	116	GLY	N-CA-C	6.36	120.33	112.64
1	1x	204	ALA	N-CA-C	6.36	118.01	111.14
1	c	205	LEU	CA-C-N	6.36	131.86	121.87
1	c	205	LEU	C-N-CA	6.36	131.86	121.87
1	l	82	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	n	216	THR	CA-C-N	6.36	128.71	120.44
1	n	216	THR	C-N-CA	6.36	128.71	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	198	CYS	CA-C-N	6.36	128.80	120.28
1	x	198	CYS	C-N-CA	6.36	128.80	120.28
1	A	97	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	D	100	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	G	23	TRP	CD2-CE2-CZ2	-6.36	116.04	122.40
1	O	107	THR	N-CA-CB	6.36	120.15	110.42
1	S	167	ARG	CA-C-O	6.36	127.16	120.42
1	8	179	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	hr	167	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	hx	195	ASN	CA-CB-CG	6.36	118.96	112.60
1	it	89	GLY	CA-C-N	6.36	126.39	119.90
1	it	89	GLY	C-N-CA	6.36	126.39	119.90
1	jW	19	THR	CA-C-O	6.36	127.29	120.55
1	l1	158	LYS	CA-C-O	6.36	127.12	119.43
1	lk	228	ALA	O-C-N	-6.36	115.54	122.79
1	ly	53	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	lD	216	THR	CA-CB-OG1	6.36	119.14	109.60
1	2b	164	TYR	CA-C-N	6.36	129.17	120.46
1	2b	164	TYR	C-N-CA	6.36	129.17	120.46
1	2B	106	GLY	CA-C-N	6.36	128.80	120.28
1	2B	106	GLY	C-N-CA	6.36	128.80	120.28
1	2W	169	TYR	N-CA-C	6.36	118.21	111.28
1	3d	5	ASN	CB-CA-C	-6.36	99.98	109.90
1	3m	88	ALA	N-CA-CB	-6.36	100.48	110.46
1	3I	124	ILE	N-CA-CB	6.36	118.26	111.20
1	4k	125	PRO	CA-C-N	6.36	129.50	120.53
1	4k	125	PRO	C-N-CA	6.36	129.50	120.53
1	4v	174	ALA	N-CA-C	6.36	117.87	111.07
1	5i	79	GLU	CA-C-N	6.36	128.80	120.28
1	5i	79	GLU	C-N-CA	6.36	128.80	120.28
1	5t	2	ILE	CA-C-O	-6.36	113.52	120.71
1	61	87	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	6D	69	LEU	O-C-N	-6.36	115.52	122.07
1	8l	53	ASN	CA-CB-CG	-6.36	106.24	112.60
1	8J	93	PRO	O-C-N	-6.36	114.06	122.64
1	8R	141	ILE	N-CA-C	6.36	116.53	110.42
1	8X	163	ASP	N-CA-CB	-6.36	100.51	110.30
1	9f	117	TRP	CA-C-O	6.36	127.28	119.97
1	9X	19	THR	N-CA-C	6.36	117.87	111.07
1	9Z	129	ILE	CB-CA-C	-6.36	103.56	112.14
1	aF	226	HIS	N-CA-C	6.36	120.44	111.92
1	bd	204	ALA	CB-CA-C	-6.36	98.09	110.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	by	154	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	bA	87	HIS	N-CA-C	6.36	119.58	110.10
1	bY	124	ILE	O-C-N	-6.36	115.07	120.92
1	cl	103	ASP	CA-C-N	6.36	128.57	120.56
1	cl	103	ASP	C-N-CA	6.36	128.57	120.56
1	cY	64	ALA	CA-C-N	6.36	129.32	120.29
1	cY	64	ALA	C-N-CA	6.36	129.32	120.29
1	do	118	MET	N-CA-C	6.36	118.21	111.28
1	1l	84	HIS	CA-C-N	6.36	126.33	119.78
1	1l	84	HIS	C-N-CA	6.36	126.33	119.78
1	dE	152	ASP	CA-CB-CG	-6.36	106.24	112.60
1	dT	216	THR	O-C-N	-6.36	114.90	122.15
1	eh	211	LEU	CA-C-N	6.36	128.80	120.28
1	eh	211	LEU	C-N-CA	6.36	128.80	120.28
1	eE	27	VAL	CB-CA-C	-6.36	103.56	112.14
1	eL	120	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	eW	229	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	ff	172	LEU	N-CA-C	6.36	118.21	111.28
1	1y	214	MET	N-CA-CB	6.36	119.42	109.94
1	fI	133	TRP	CD2-CE2-CZ2	-6.36	116.04	122.40
1	fO	12	HIS	ND1-CE1-NE2	6.36	114.76	108.40
1	fV	84	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	X	129	ILE	CA-C-N	6.36	128.80	120.28
1	X	129	ILE	C-N-CA	6.36	128.80	120.28
1	gm	92	GLU	O-C-N	-6.36	114.41	121.66
1	gz	202	LEU	CA-C-O	-6.36	113.76	120.63
1	gB	33	SER	CA-C-O	-6.36	113.43	119.91
1	gF	154	ARG	NH1-CZ-NH2	-6.36	111.04	119.30
1	gN	58	THR	CA-CB-OG1	6.36	119.14	109.60
1	h3	87	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	h4	134	ILE	CA-C-N	6.36	129.45	120.42
1	h4	134	ILE	C-N-CA	6.36	129.45	120.42
1	h6	71	GLU	N-CA-CB	6.36	119.47	110.12
1	hh	203	LYS	CA-C-N	6.36	128.80	120.28
1	hh	203	LYS	C-N-CA	6.36	128.80	120.28
1	ho	136	LEU	CA-C-O	6.36	127.29	120.55
1	ho	208	ALA	CA-C-N	6.36	129.74	120.71
1	ho	208	ALA	C-N-CA	6.36	129.74	120.71
1	hB	55	MET	CA-C-O	-6.36	112.92	120.10
1	hG	182	LYS	CA-C-O	6.36	127.29	120.55
1	hI	211	LEU	CA-C-N	6.36	128.80	120.28
1	hI	211	LEU	C-N-CA	6.36	128.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i2	100	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	ij	53	ASN	N-CA-C	-6.36	104.43	111.36
1	iy	71	GLU	N-CA-C	6.36	119.02	111.33
1	iF	15	ILE	N-CA-C	6.36	122.56	109.34
1	iM	56	LEU	CA-C-O	6.36	127.50	120.82
1	iW	135	ILE	CB-CA-C	6.36	120.72	112.14
1	1T	202	LEU	CA-C-O	-6.36	112.66	119.97
1	jc	73	ILE	CB-CA-C	-6.36	103.83	111.97
1	jd	63	GLN	CA-C-N	6.36	129.09	120.38
1	jd	63	GLN	C-N-CA	6.36	129.09	120.38
1	jk	120	HIS	N-CA-C	6.36	118.76	110.43
1	jp	167	ARG	CA-C-N	6.36	128.71	120.44
1	jp	167	ARG	C-N-CA	6.36	128.71	120.44
1	jZ	30	LYS	CB-CA-C	-6.36	99.76	110.44
1	k1	187	GLU	N-CA-C	6.36	119.20	111.82
1	kf	173	ARG	NE-CZ-NH1	-6.36	115.14	121.50
1	kK	2	ILE	O-C-N	-6.36	115.75	122.81
1	kQ	138	LEU	CA-C-N	6.36	129.09	120.38
1	kQ	138	LEU	C-N-CA	6.36	129.09	120.38
1	l7	101	GLY	N-CA-C	6.36	121.72	113.27
1	ld	69	LEU	CB-CA-C	-6.36	100.90	110.88
1	lf	53	ASN	CA-C-N	6.36	129.97	120.31
1	lf	53	ASN	C-N-CA	6.36	129.97	120.31
1	lu	85	PRO	CA-C-N	6.36	131.04	122.90
1	lu	85	PRO	C-N-CA	6.36	131.04	122.90
1	2c	132	ARG	N-CA-C	6.36	119.02	111.71
1	35	65	ALA	CA-C-N	6.36	129.32	120.29
1	35	65	ALA	C-N-CA	6.36	129.32	120.29
1	3d	97	ARG	N-CA-C	6.36	118.50	110.24
1	3D	77	ALA	N-CA-CB	-6.36	100.47	109.94
1	3U	120	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	3Z	182	LYS	CA-C-N	6.36	128.70	120.44
1	3Z	182	LYS	C-N-CA	6.36	128.70	120.44
1	4i	194	ALA	N-CA-C	6.36	118.76	110.43
1	4l	206	GLY	O-C-N	6.36	128.13	121.77
1	4u	10	MET	N-CA-C	6.36	119.84	110.30
1	4P	105	ALA	CA-C-O	6.36	127.20	119.38
1	5p	169	TYR	CA-C-N	6.36	129.09	120.38
1	5p	169	TYR	C-N-CA	6.36	129.09	120.38
1	64	205	LEU	N-CA-CB	6.36	119.47	110.12
1	6F	111	LEU	CA-C-N	6.36	128.80	120.28
1	6F	111	LEU	C-N-CA	6.36	128.80	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7i	55	MET	CA-C-N	6.36	128.71	120.44
1	7i	55	MET	C-N-CA	6.36	128.71	120.44
1	7S	164	TYR	CB-CG-CD2	6.36	130.34	120.80
1	7W	203	LYS	N-CA-C	6.36	118.29	111.36
1	84	209	ALA	CA-C-N	6.36	131.94	121.39
1	84	209	ALA	C-N-CA	6.36	131.94	121.39
1	85	57	ASN	CA-C-N	6.36	128.80	120.28
1	85	57	ASN	C-N-CA	6.36	128.80	120.28
1	8e	50	GLN	CA-CB-CG	6.36	126.82	114.10
1	8q	84	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	8u	82	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	8w	18	ARG	CA-C-N	6.36	128.80	120.28
1	8w	18	ARG	C-N-CA	6.36	128.80	120.28
1	8S	40	PHE	CA-C-N	6.36	128.70	120.44
1	8S	40	PHE	C-N-CA	6.36	128.70	120.44
1	9e	76	GLU	N-CA-C	6.36	119.02	111.33
1	a2	220	GLY	O-C-N	-6.36	115.35	122.28
1	10	203	LYS	N-CA-C	6.36	119.19	111.82
1	ak	158	LYS	CA-C-O	6.36	126.98	119.48
1	aG	219	GLN	O-C-N	-6.36	114.17	122.43
1	aH	162	ARG	N-CA-C	6.36	118.21	111.28
1	aO	115	ILE	N-CA-CB	6.36	119.19	110.54
1	aT	48	THR	N-CA-CB	6.36	119.63	110.03
1	aT	74	ASN	OD1-CG-ND2	6.36	128.96	122.60
1	b5	78	ALA	CA-C-N	6.36	130.36	120.82
1	b5	78	ALA	C-N-CA	6.36	130.36	120.82
1	bg	63	GLN	CG-CD-NE2	6.36	125.94	116.40
1	17	69	LEU	O-C-N	-6.36	115.38	122.12
1	bp	185	MET	CA-C-N	6.36	128.71	120.44
1	bp	185	MET	C-N-CA	6.36	128.71	120.44
1	br	82	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	bV	226	HIS	CA-CB-CG	6.36	120.16	113.80
1	c8	211	LEU	CA-C-N	6.36	130.36	120.82
1	c8	211	LEU	C-N-CA	6.36	130.36	120.82
1	cf	179	GLN	CA-C-N	6.36	129.12	120.54
1	cf	179	GLN	C-N-CA	6.36	129.12	120.54
1	ct	226	HIS	CA-CB-CG	6.36	120.16	113.80
1	cw	143	ARG	N-CA-C	6.36	118.21	111.28
1	cA	177	ALA	O-C-N	-6.36	114.13	122.59
1	cJ	41	SER	CA-C-N	6.36	128.80	120.28
1	cJ	41	SER	C-N-CA	6.36	128.80	120.28
1	cW	81	ASP	CA-C-N	6.36	129.12	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cW	81	ASP	C-N-CA	6.36	129.12	120.54
1	df	137	GLY	CA-C-N	6.36	128.80	120.28
1	df	137	GLY	C-N-CA	6.36	128.80	120.28
1	dx	18	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	dx	51	ASP	CA-C-N	6.36	128.71	120.44
1	dx	51	ASP	C-N-CA	6.36	128.71	120.44
1	dE	152	ASP	N-CA-CB	-6.36	100.43	110.22
1	dT	81	ASP	CA-C-N	6.36	128.80	120.28
1	dT	81	ASP	C-N-CA	6.36	128.80	120.28
1	en	140	LYS	N-CA-C	6.36	118.21	111.28
1	eO	200	THR	CA-C-N	6.36	129.17	120.46
1	eO	200	THR	C-N-CA	6.36	129.17	120.46
1	eP	178	SER	O-C-N	-6.36	115.13	122.89
1	f6	145	TYR	CA-C-N	6.36	129.23	120.39
1	f6	145	TYR	C-N-CA	6.36	129.23	120.39
1	fe	128	GLU	N-CA-C	6.36	117.87	111.07
1	ft	78	ALA	N-CA-C	6.36	117.87	111.07
1	1z	100	ARG	CA-C-N	6.36	133.87	121.41
1	1z	100	ARG	C-N-CA	6.36	133.87	121.41
1	fW	19	THR	O-C-N	-6.36	115.52	122.07
1	g6	189	LEU	N-CA-C	6.36	118.21	111.28
1	w	177	ALA	CA-C-N	6.36	130.78	121.31
1	w	177	ALA	C-N-CA	6.36	130.78	121.31
1	x	230	VAL	O-C-N	-6.36	115.77	122.57
1	A	136	LEU	N-CA-C	6.36	118.21	111.28
1	X	63	GLN	OE1-CD-NE2	-6.36	116.24	122.60
1	gd	139	ASN	N-CA-C	6.36	118.21	111.28
1	gl	132	ARG	NE-CZ-NH2	-6.36	113.48	119.20
1	go	160	PRO	O-C-N	-6.36	114.92	122.99
1	gw	79	GLU	CA-C-N	6.36	129.97	120.31
1	gw	79	GLU	C-N-CA	6.36	129.97	120.31
1	gN	113	GLU	N-CA-C	6.36	119.02	111.33
1	gU	95	GLN	O-C-N	-6.36	114.99	122.81
1	gZ	223	GLY	CA-C-N	6.36	127.17	120.12
1	gZ	223	GLY	C-N-CA	6.36	127.17	120.12
1	1H	78	ALA	O-C-N	-6.36	115.38	122.12
1	h8	100	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	hL	12	HIS	CE1-NE2-CD2	-6.36	102.64	109.00
1	hS	57	ASN	OD1-CG-ND2	-6.36	116.25	122.60
1	hZ	195	ASN	CA-C-O	-6.36	114.37	119.71
1	in	53	ASN	N-CA-C	6.36	118.21	111.28
1	iq	174	ALA	N-CA-C	6.36	119.19	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jo	9	GLN	N-CA-CB	6.36	121.23	110.49
1	jT	164	TYR	N-CA-C	6.36	118.29	111.36
1	k8	174	ALA	CA-C-O	6.36	126.59	119.41
1	ka	184	TRP	O-C-N	-6.36	115.38	122.12
1	kF	134	ILE	CA-C-N	6.36	128.57	120.56
1	kF	134	ILE	C-N-CA	6.36	128.57	120.56
1	kO	73	ILE	N-CA-C	6.36	119.03	111.09
1	2F	168	PHE	O-C-N	-6.36	115.23	122.09
1	37	12	HIS	N-CA-C	6.36	119.43	109.96
1	3h	64	ALA	N-CA-C	6.36	117.87	111.07
1	3v	6	LEU	CA-C-O	6.36	130.02	122.14
1	3N	57	ASN	OD1-CG-ND2	-6.36	116.24	122.60
1	3R	132	ARG	CA-C-N	6.36	128.80	120.28
1	3R	132	ARG	C-N-CA	6.36	128.80	120.28
1	3S	63	GLN	O-C-N	-6.36	114.91	122.15
1	3T	29	GLU	N-CA-C	6.36	117.87	111.07
1	3X	81	ASP	O-C-N	-6.36	115.38	122.12
1	3Z	133	TRP	CA-C-N	6.36	128.80	120.60
1	3Z	133	TRP	C-N-CA	6.36	128.80	120.60
1	44	131	LYS	N-CA-C	6.36	118.74	111.11
1	4c	214	MET	N-CA-C	6.36	119.88	111.75
1	4j	121	ASN	CA-CB-CG	6.36	118.96	112.60
1	5o	18	ARG	N-CA-C	6.36	118.21	111.28
1	5R	56	LEU	O-C-N	-6.36	114.91	122.15
1	5Z	47	ALA	N-CA-C	6.36	118.93	109.59
1	6b	181	VAL	CA-C-N	6.36	128.80	120.28
1	6b	181	VAL	C-N-CA	6.36	128.80	120.28
1	6f	59	VAL	N-CA-C	6.36	117.23	108.84
1	6F	132	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	76	32	PHE	CA-CB-CG	6.36	120.16	113.80
1	7b	27	VAL	O-C-N	-6.36	114.62	121.80
1	7r	117	TRP	CA-C-N	6.36	128.80	120.28
1	7r	117	TRP	C-N-CA	6.36	128.80	120.28
1	7A	73	ILE	N-CA-C	6.36	116.52	110.42
1	89	210	THR	CA-C-N	6.36	128.70	120.44
1	89	210	THR	C-N-CA	6.36	128.70	120.44
1	8l	117	TRP	O-C-N	-6.36	115.38	122.12
1	8x	161	PHE	N-CA-C	6.36	118.74	111.11
1	8H	156	GLY	O-C-N	-6.36	115.41	121.77
1	8I	218	CYS	CA-C-O	6.36	127.43	120.12
1	8O	94	GLY	CA-C-O	6.36	126.28	119.03
1	8O	141	ILE	O-C-N	6.36	128.03	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9r	55	MET	O-C-N	-6.36	115.38	122.12
1	9t	143	ARG	NE-CZ-NH1	6.36	127.86	121.50
1	9K	203	LYS	O-C-N	-6.36	115.52	122.07
1	9S	117	TRP	N-CA-C	6.36	118.21	111.28
1	ab	15	ILE	CA-C-O	6.36	128.29	121.04
1	ab	53	ASN	OD1-CG-ND2	-6.36	116.25	122.60
1	aq	122	PRO	CA-C-N	6.36	127.78	119.84
1	aq	122	PRO	C-N-CA	6.36	127.78	119.84
1	aN	144	MET	CA-C-N	6.36	133.49	122.56
1	aN	144	MET	C-N-CA	6.36	133.49	122.56
1	b1	120	HIS	CB-CG-CD2	-6.36	122.94	131.20
1	bb	97	ARG	NE-CZ-NH2	6.36	124.92	119.20
1	bk	50	GLN	N-CA-C	6.36	118.21	111.28
1	19	78	ALA	O-C-N	-6.36	115.38	122.12
1	1a	129	ILE	N-CA-C	6.36	116.52	110.42
1	bW	77	ALA	N-CA-C	6.36	117.87	111.07
1	cs	121	ASN	CA-C-O	-6.36	114.63	119.59
1	cI	210	THR	O-C-N	-6.36	115.31	122.75
1	cW	95	GLN	O-C-N	-6.36	115.55	122.79
1	d6	141	ILE	CA-CB-CG1	6.36	121.20	110.40
1	dt	199	LYS	CA-C-N	6.36	129.09	120.38
1	dt	199	LYS	C-N-CA	6.36	129.09	120.38
1	dv	158	LYS	CA-C-N	6.36	129.19	120.67
1	dv	158	LYS	C-N-CA	6.36	129.19	120.67
1	dx	223	GLY	O-C-N	-6.36	115.41	121.77
1	dy	229	ARG	NH1-CZ-NH2	-6.36	111.04	119.30
1	dH	180	GLU	CA-C-N	6.36	128.69	120.56
1	dH	180	GLU	C-N-CA	6.36	128.69	120.56
1	dJ	70	LYS	CA-C-N	6.36	128.80	120.28
1	dJ	70	LYS	C-N-CA	6.36	128.80	120.28
1	dJ	138	LEU	N-CA-CB	6.36	119.22	110.01
1	1n	150	ILE	CA-C-O	6.36	127.33	120.47
1	e0	230	VAL	O-C-N	-6.36	114.62	122.57
1	1p	169	TYR	CB-CG-CD1	-6.36	111.27	120.80
1	em	57	ASN	CA-CB-CG	-6.36	106.25	112.60
1	en	132	ARG	CA-C-N	6.36	129.31	120.29
1	en	132	ARG	C-N-CA	6.36	129.31	120.29
1	eH	46	GLY	CA-C-N	6.36	129.78	120.82
1	eH	46	GLY	C-N-CA	6.36	129.78	120.82
1	eZ	12	HIS	CG-CD2-NE2	6.36	113.56	107.20
1	f0	51	ASP	CA-C-N	6.36	128.70	120.44
1	f0	51	ASP	C-N-CA	6.36	128.70	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f1	138	LEU	O-C-N	-6.36	115.38	122.12
1	fc	168	PHE	CA-C-N	6.36	129.31	120.29
1	fc	168	PHE	C-N-CA	6.36	129.31	120.29
1	fi	126	VAL	CA-C-O	6.36	127.72	120.03
1	fv	156	GLY	CA-C-O	-6.36	112.43	121.52
1	fF	197	ASP	CA-CB-CG	-6.36	106.24	112.60
1	fM	164	TYR	CA-C-N	6.36	129.17	120.46
1	fM	164	TYR	C-N-CA	6.36	129.17	120.46
1	fW	168	PHE	CA-C-N	6.36	129.43	120.28
1	fW	168	PHE	C-N-CA	6.36	129.43	120.28
1	e	111	LEU	N-CA-C	6.36	119.02	111.33
1	i	140	LYS	CA-C-N	6.36	128.69	120.56
1	i	140	LYS	C-N-CA	6.36	128.69	120.56
1	i	194	ALA	CA-C-N	6.36	129.29	120.65
1	i	194	ALA	C-N-CA	6.36	129.29	120.65
1	O	33	SER	CA-C-N	6.36	127.78	119.84
1	O	33	SER	C-N-CA	6.36	127.78	119.84
1	T	121	ASN	CB-CA-C	6.36	118.65	110.13
1	gI	116	GLY	O-C-N	-6.35	116.08	122.18
1	gP	47	ALA	N-CA-C	6.35	119.25	110.35
1	ht	12	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	iz	85	PRO	N-CA-C	6.35	120.42	111.33
1	iz	93	PRO	N-CA-C	6.35	121.31	111.21
1	iM	226	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	1X	97	ARG	N-CA-CB	6.35	121.23	110.49
1	kW	134	ILE	N-CA-C	6.35	116.52	110.42
1	li	26	VAL	CA-C-N	6.35	129.16	120.46
1	li	26	VAL	C-N-CA	6.35	129.16	120.46
1	lm	147	PRO	N-CA-C	6.35	120.81	111.03
1	2n	165	VAL	CA-C-N	6.35	129.12	120.54
1	2n	165	VAL	C-N-CA	6.35	129.12	120.54
1	2W	74	ASN	CA-CB-CG	-6.35	106.25	112.60
1	3w	197	ASP	N-CA-CB	6.35	119.22	110.01
1	3Z	53	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	4Y	12	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	5b	132	ARG	CD-NE-CZ	-6.35	115.50	124.40
1	5L	71	GLU	CA-C-N	6.35	128.79	120.28
1	5L	71	GLU	C-N-CA	6.35	128.79	120.28
1	63	53	ASN	CA-CB-CG	-6.35	106.25	112.60
1	6D	226	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	73	58	THR	N-CA-C	6.35	118.21	111.28
1	7t	62	HIS	CA-C-O	6.35	128.86	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7H	55	MET	N-CA-C	6.35	118.21	111.28
1	7O	143	ARG	NH1-CZ-NH2	-6.35	111.04	119.30
1	7Y	120	HIS	N-CA-C	6.35	118.75	110.43
1	8G	155	GLN	O-C-N	-6.35	115.51	123.01
1	8M	85	PRO	CA-C-N	6.35	130.31	122.37
1	8M	85	PRO	C-N-CA	6.35	130.31	122.37
1	8W	14	ALA	N-CA-C	6.35	119.13	110.55
1	a7	143	ARG	CB-CA-C	6.35	120.75	110.96
1	a7	204	ALA	CA-C-N	6.35	129.31	120.29
1	a7	204	ALA	C-N-CA	6.35	129.31	120.29
1	as	30	LYS	CA-C-O	-6.35	112.45	119.95
1	aI	24	VAL	CA-CB-CG2	-6.35	99.60	110.40
1	bL	40	PHE	CA-CB-CG	-6.35	107.45	113.80
1	bU	76	GLU	CA-C-N	6.35	128.79	120.28
1	bU	76	GLU	C-N-CA	6.35	128.79	120.28
1	cD	172	LEU	N-CA-C	6.35	119.02	111.71
1	cJ	202	LEU	CA-C-N	6.35	128.79	120.28
1	cJ	202	LEU	C-N-CA	6.35	128.79	120.28
1	db	180	GLU	CA-C-O	6.35	127.49	120.82
1	dc	226	HIS	CA-CB-CG	-6.35	107.45	113.80
1	de	118	MET	N-CA-C	6.35	121.03	113.28
1	dL	19	THR	N-CA-CB	6.35	119.53	110.13
1	dT	183	ASN	CA-C-N	6.35	129.31	120.29
1	dT	183	ASN	C-N-CA	6.35	129.31	120.29
1	e5	54	THR	CA-C-O	6.35	127.28	120.55
1	eE	76	GLU	CA-C-O	-6.35	113.69	120.42
1	eU	164	TYR	CB-CG-CD1	6.35	130.33	120.80
1	fC	159	GLU	CA-C-O	-6.35	114.11	119.76
1	g5	68	MET	O-C-N	-6.35	115.53	122.07
1	h	173	ARG	NE-CZ-NH2	-6.35	113.48	119.20
1	m	59	VAL	N-CA-C	6.35	118.32	109.55
1	H	34	PRO	CA-C-N	6.35	130.77	120.60
1	H	34	PRO	C-N-CA	6.35	130.77	120.60
1	I	215	MET	CA-C-N	6.35	129.08	120.44
1	I	215	MET	C-N-CA	6.35	129.08	120.44
1	gP	3	VAL	CA-C-N	6.35	130.91	120.94
1	gP	3	VAL	C-N-CA	6.35	130.91	120.94
1	ho	56	LEU	N-CA-C	6.35	118.20	111.28
1	hr	77	ALA	CA-C-N	6.35	128.79	120.28
1	hr	77	ALA	C-N-CA	6.35	128.79	120.28
1	hB	204	ALA	N-CA-C	6.35	118.20	111.28
1	hN	93	PRO	N-CA-CB	6.35	108.66	103.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hQ	111	LEU	O-C-N	-6.35	115.39	122.12
1	hQ	157	PRO	N-CA-CB	6.35	109.61	103.51
1	i8	188	THR	CA-CB-OG1	6.35	119.13	109.60
1	ik	117	TRP	CB-CG-CD1	-6.35	117.37	126.90
1	ir	185	MET	CA-C-N	6.35	128.70	120.44
1	ir	185	MET	C-N-CA	6.35	128.70	120.44
1	jc	98	GLU	CA-C-O	-6.35	113.78	119.75
1	jf	211	LEU	N-CA-C	6.35	119.02	111.33
1	jo	177	ALA	CA-C-N	6.35	130.34	120.75
1	jo	177	ALA	C-N-CA	6.35	130.34	120.75
1	jF	147	PRO	N-CA-CB	-6.35	97.52	102.28
1	1X	222	GLY	CA-C-N	6.35	131.84	121.87
1	1X	222	GLY	C-N-CA	6.35	131.84	121.87
1	kn	34	PRO	CA-N-CD	-6.35	103.11	112.00
1	ky	5	ASN	CA-CB-CG	-6.35	106.25	112.60
1	kC	122	PRO	CA-C-N	6.35	126.30	119.76
1	kC	122	PRO	C-N-CA	6.35	126.30	119.76
1	kP	226	HIS	ND1-CE1-NE2	6.35	114.75	108.40
1	kQ	141	ILE	N-CA-C	6.35	116.52	110.42
1	lg	226	HIS	CA-CB-CG	6.35	120.15	113.80
1	lz	97	ARG	CA-C-N	6.35	129.18	120.67
1	lz	97	ARG	C-N-CA	6.35	129.18	120.67
1	lI	10	MET	CA-C-N	6.35	132.07	122.92
1	lI	10	MET	C-N-CA	6.35	132.07	122.92
1	2x	7	GLN	CA-C-O	6.35	125.89	118.90
1	2G	173	ARG	O-C-N	6.35	128.85	122.12
1	2K	226	HIS	CA-CB-CG	-6.35	107.45	113.80
1	39	67	GLN	O-C-N	-6.35	115.39	122.12
1	3f	166	ASP	N-CA-C	6.35	117.87	111.07
1	3j	48	THR	N-CA-C	-6.35	102.13	110.39
1	3I	83	LEU	N-CA-C	-6.35	105.69	113.50
1	42	223	GLY	CA-C-N	6.35	127.78	119.84
1	42	223	GLY	C-N-CA	6.35	127.78	119.84
1	46	170	LYS	CA-C-N	6.35	128.79	120.28
1	46	170	LYS	C-N-CA	6.35	128.79	120.28
1	49	41	SER	CA-C-O	6.35	127.28	120.55
1	4h	217	ALA	N-CA-C	6.35	118.93	109.59
1	4h	224	PRO	CA-C-N	6.35	126.14	120.10
1	4h	224	PRO	C-N-CA	6.35	126.14	120.10
1	4m	49	PRO	CB-CA-C	6.35	123.69	112.64
1	5i	48	THR	CA-C-N	6.35	127.78	119.84
1	5i	48	THR	C-N-CA	6.35	127.78	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5L	70	LYS	N-CA-C	6.35	117.87	111.07
1	5L	149	SER	N-CA-CB	6.35	120.11	110.45
1	5W	9	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	6f	86	VAL	CB-CA-C	-6.35	103.32	111.20
1	6i	36	VAL	CA-C-N	6.35	125.41	120.33
1	6i	36	VAL	C-N-CA	6.35	125.41	120.33
1	6q	226	HIS	ND1-CE1-NE2	6.35	114.75	108.40
1	6v	111	LEU	N-CA-C	6.35	118.73	111.11
1	6y	206	GLY	CA-C-N	6.35	127.17	120.12
1	6y	206	GLY	C-N-CA	6.35	127.17	120.12
1	6C	211	LEU	N-CA-CB	6.35	119.59	110.06
1	6I	97	ARG	N-CA-C	6.35	119.46	110.50
1	6L	32	PHE	N-CA-C	6.35	119.94	111.30
1	7v	124	ILE	N-CA-C	-6.35	100.80	107.60
1	7I	229	ARG	O-C-N	-6.35	113.16	122.43
1	82	66	MET	O-C-N	-6.35	115.39	122.12
1	8d	229	ARG	NE-CZ-NH1	6.35	127.85	121.50
1	8J	146	SER	CA-C-O	-6.35	114.38	119.71
1	8K	91	ILE	CA-CB-CG1	6.35	121.20	110.40
1	8M	154	ARG	O-C-N	-6.35	116.62	123.42
1	8Q	216	THR	CA-C-N	6.35	132.78	122.81
1	8Q	216	THR	C-N-CA	6.35	132.78	122.81
1	94	114	GLN	CB-CA-C	6.35	121.33	110.79
1	9Q	90	PRO	CA-C-O	-6.35	114.10	121.34
1	ae	87	HIS	CG-CD2-NE2	6.35	113.55	107.20
1	al	230	VAL	N-CA-C	-6.35	105.99	113.42
1	au	84	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	az	99	PRO	CB-CA-C	6.35	119.15	111.46
1	aM	32	PHE	N-CA-C	6.35	120.61	112.86
1	b2	37	ILE	N-CA-C	6.35	121.82	112.61
1	b6	163	ASP	CA-C-O	6.35	127.28	120.55
1	bm	72	THR	CA-C-N	6.35	129.49	120.53
1	bm	72	THR	C-N-CA	6.35	129.49	120.53
1	br	130	TYR	N-CA-C	6.35	118.28	111.36
1	bL	21	ASN	N-CA-C	6.35	118.20	111.28
1	bM	23	TRP	O-C-N	-6.35	115.48	122.09
1	1e	142	VAL	N-CA-C	6.35	117.10	110.62
1	cu	101	GLY	O-C-N	-6.35	116.03	122.19
1	cE	65	ALA	N-CA-C	6.35	117.87	111.07
1	cH	179	GLN	O-C-N	-6.35	115.39	122.12
1	cP	107	THR	N-CA-C	-6.35	105.66	113.41
1	cY	32	PHE	N-CA-C	-6.35	104.84	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	58	THR	CA-C-N	6.35	129.26	120.49
1	dc	58	THR	C-N-CA	6.35	129.26	120.49
1	dr	175	GLU	CB-CG-CD	6.35	123.40	112.60
1	dF	167	ARG	NH1-CZ-NH2	-6.35	111.04	119.30
1	dK	80	TRP	CB-CG-CD1	-6.35	117.37	126.90
1	1o	212	GLU	N-CA-C	6.35	117.87	111.07
1	ee	92	GLU	CA-C-N	6.35	127.78	119.84
1	ee	92	GLU	C-N-CA	6.35	127.78	119.84
1	1q	149	SER	N-CA-C	6.35	119.20	110.24
1	eo	60	GLY	CA-C-N	6.35	127.71	120.53
1	eo	60	GLY	C-N-CA	6.35	127.71	120.53
1	eF	128	GLU	O-C-N	-6.35	113.82	122.33
1	fg	137	GLY	O-C-N	-6.35	115.36	122.28
1	fL	153	ILE	CA-C-N	6.35	133.67	121.54
1	fL	153	ILE	C-N-CA	6.35	133.67	121.54
1	fN	169	TYR	N-CA-C	6.35	118.20	111.28
1	fW	173	ARG	NE-CZ-NH2	-6.35	113.48	119.20
1	g2	163	ASP	N-CA-C	6.35	119.19	111.82
1	e	139	ASN	CA-CB-CG	-6.35	106.25	112.60
1	g	21	ASN	CB-CG-ND2	6.35	125.93	116.40
1	1	191	VAL	CA-C-O	6.35	127.33	120.47
1	2	57	ASN	N-CA-C	6.35	121.11	113.23
1	X	226	HIS	N-CA-C	-6.35	99.33	108.60
1	gs	33	SER	CA-C-N	6.35	126.04	119.56
1	gs	33	SER	C-N-CA	6.35	126.04	119.56
1	gD	60	GLY	CA-C-N	6.35	128.84	122.30
1	gD	60	GLY	C-N-CA	6.35	128.84	122.30
1	gI	123	PRO	N-CA-CB	6.35	108.88	103.35
1	1G	129	ILE	N-CA-C	-6.35	104.56	110.53
1	gY	120	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	h1	215	MET	N-CA-C	6.35	120.13	112.38
1	hh	8	GLY	CA-C-N	6.35	130.34	120.75
1	hh	8	GLY	C-N-CA	6.35	130.34	120.75
1	hr	101	GLY	N-CA-C	6.35	122.12	113.99
1	hx	147	PRO	CA-C-N	6.35	129.85	120.90
1	hx	147	PRO	C-N-CA	6.35	129.85	120.90
1	hy	45	GLU	CA-C-N	6.35	129.70	120.11
1	hy	45	GLU	C-N-CA	6.35	129.70	120.11
1	hF	20	LEU	N-CA-C	6.35	118.20	111.28
1	ip	65	ALA	O-C-N	-6.35	114.91	122.15
1	iw	196	PRO	CA-C-N	6.35	128.70	120.44
1	iw	196	PRO	C-N-CA	6.35	128.70	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iR	28	GLU	N-CA-CB	6.35	119.22	110.01
1	kG	182	LYS	N-CA-CB	-6.35	100.78	110.12
1	kO	194	ALA	N-CA-CB	-6.35	101.61	110.25
1	lm	25	LYS	N-CA-C	6.35	117.87	111.07
1	2W	143	ARG	N-CA-C	6.35	117.86	111.07
1	3q	148	THR	CA-C-N	6.35	129.73	120.71
1	3q	148	THR	C-N-CA	6.35	129.73	120.71
1	3D	180	GLU	CA-C-N	6.35	128.56	120.56
1	3D	180	GLU	C-N-CA	6.35	128.56	120.56
1	3J	167	ARG	CA-C-N	6.35	128.70	120.44
1	3J	167	ARG	C-N-CA	6.35	128.70	120.44
1	3V	149	SER	N-CA-CB	6.35	119.32	110.17
1	46	72	THR	N-CA-C	6.35	119.01	111.33
1	5f	51	ASP	CA-C-N	6.35	128.79	120.28
1	5f	51	ASP	C-N-CA	6.35	128.79	120.28
1	5F	172	LEU	CA-C-O	6.35	127.27	119.97
1	5V	226	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	6u	205	LEU	CA-C-N	6.35	131.84	121.87
1	6u	205	LEU	C-N-CA	6.35	131.84	121.87
1	71	83	LEU	CB-CA-C	-6.35	100.05	110.85
1	7n	113	GLU	N-CA-C	-6.35	104.44	111.36
1	7Q	165	VAL	CB-CA-C	-6.35	103.57	112.14
1	94	19	THR	CA-C-N	6.35	128.79	120.28
1	94	19	THR	C-N-CA	6.35	128.79	120.28
1	9A	121	ASN	O-C-N	-6.35	115.74	121.39
1	ab	42	ALA	CA-C-O	6.35	127.15	120.42
1	15	67	GLN	O-C-N	-6.35	115.39	122.12
1	bR	37	ILE	CB-CA-C	-6.35	107.67	113.70
1	1j	116	GLY	O-C-N	6.35	128.42	122.13
1	1l	210	THR	O-C-N	-6.35	115.78	122.96
1	dB	195	ASN	CA-CB-CG	6.35	118.95	112.60
1	dQ	183	ASN	CB-CG-ND2	6.35	125.93	116.40
1	dR	196	PRO	CA-C-O	-6.35	110.53	119.74
1	1o	220	GLY	CA-C-N	6.35	129.62	120.98
1	1o	220	GLY	C-N-CA	6.35	129.62	120.98
1	et	68	MET	CA-C-N	6.35	129.62	120.79
1	et	68	MET	C-N-CA	6.35	129.62	120.79
1	f5	155	GLN	N-CA-C	6.35	119.15	108.23
1	fZ	192	GLN	N-CA-C	6.35	119.02	111.33
1	s	57	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	3	126	VAL	N-CA-C	6.35	122.55	109.34
1	M	226	HIS	CA-CB-CG	-6.35	107.45	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	87	HIS	CB-CA-C	-6.35	99.88	110.29
1	ge	212	GLU	N-CA-C	6.35	117.86	111.07
1	gW	178	SER	N-CA-C	6.35	124.32	110.80
1	gX	73	ILE	N-CA-C	6.35	117.13	110.72
1	h7	180	GLU	CA-C-N	6.35	129.82	120.74
1	h7	180	GLU	C-N-CA	6.35	129.82	120.74
1	hd	229	ARG	CD-NE-CZ	-6.35	115.51	124.40
1	hq	196	PRO	N-CA-C	6.35	125.55	112.47
1	hK	95	GLN	CA-C-O	6.35	127.71	120.54
1	hK	108	THR	CA-CB-CG2	-6.35	99.71	110.50
1	ii	224	PRO	N-CA-CB	-6.35	98.33	102.65
1	1Q	145	TYR	N-CA-CB	6.35	121.08	110.92
1	iP	216	THR	N-CA-C	-6.35	105.57	113.38
1	j6	100	ARG	O-C-N	-6.35	115.47	122.84
1	jh	58	THR	CA-CB-CG2	6.35	121.29	110.50
1	1V	89	GLY	CA-C-N	6.35	126.11	119.76
1	1V	89	GLY	C-N-CA	6.35	126.11	119.76
1	jP	82	ARG	NE-CZ-NH2	6.35	124.92	119.20
1	jX	175	GLU	O-C-N	-6.35	115.78	122.96
1	kf	31	ALA	O-C-N	-6.35	114.15	122.59
1	kg	174	ALA	CA-C-N	6.35	129.89	120.87
1	kg	174	ALA	C-N-CA	6.35	129.89	120.87
1	ku	39	MET	CA-C-O	6.35	127.28	120.55
1	kH	33	SER	O-C-N	-6.35	114.32	121.43
1	kU	12	HIS	ND1-CE1-NE2	6.35	114.75	108.40
1	li	229	ARG	CA-C-N	6.35	128.56	120.56
1	li	229	ARG	C-N-CA	6.35	128.56	120.56
1	lj	16	SER	O-C-N	-6.35	114.93	121.28
1	lu	121	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	lw	19	THR	N-CA-C	6.35	119.01	111.71
1	lA	165	VAL	CA-C-N	6.35	128.69	120.44
1	lA	165	VAL	C-N-CA	6.35	128.69	120.44
1	29	12	HIS	ND1-CE1-NE2	6.35	114.75	108.40
1	lE	63	GLN	N-CA-C	6.35	118.20	111.28
1	2l	173	ARG	NE-CZ-NH2	-6.35	113.49	119.20
1	2w	54	THR	CA-C-O	6.35	127.24	120.70
1	32	138	LEU	N-CA-CB	6.35	119.45	110.12
1	38	199	LYS	N-CA-C	6.35	119.01	111.33
1	3d	27	VAL	CA-CB-CG1	6.35	121.19	110.40
1	3s	60	GLY	CA-C-N	6.35	129.66	122.67
1	3s	60	GLY	C-N-CA	6.35	129.66	122.67
1	3w	167	ARG	NH1-CZ-NH2	-6.35	111.05	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3E	120	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	4g	210	THR	O-C-N	-6.35	115.37	122.86
1	4l	121	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	4l	143	ARG	NE-CZ-NH1	6.35	127.85	121.50
1	4p	226	HIS	ND1-CE1-NE2	6.35	114.75	108.40
1	4w	144	MET	N-CA-C	6.35	119.88	111.75
1	4O	221	VAL	CA-C-O	-6.35	114.09	120.31
1	50	159	GLU	CA-C-N	6.35	126.72	119.93
1	50	159	GLU	C-N-CA	6.35	126.72	119.93
1	5g	179	GLN	N-CA-C	6.35	118.20	111.28
1	5D	170	LYS	CA-C-N	6.35	128.69	120.44
1	5D	170	LYS	C-N-CA	6.35	128.69	120.44
1	67	162	ARG	NE-CZ-NH1	6.35	127.85	121.50
1	6c	209	ALA	N-CA-C	6.35	118.49	110.24
1	6d	120	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	6Q	121	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	77	162	ARG	CA-C-N	6.35	128.79	120.28
1	77	162	ARG	C-N-CA	6.35	128.79	120.28
1	7a	47	ALA	N-CA-C	6.35	119.56	110.10
1	7h	163	ASP	CA-CB-CG	6.35	118.95	112.60
1	7K	221	VAL	CB-CA-C	-6.35	104.41	110.70
1	7S	67	GLN	N-CA-C	6.35	117.86	111.07
1	82	43	LEU	N-CA-C	-6.35	104.23	112.23
1	82	226	HIS	CB-CG-CD2	-6.35	122.94	131.20
1	8j	58	THR	CA-C-N	6.35	129.07	120.63
1	8j	58	THR	C-N-CA	6.35	129.07	120.63
1	8m	87	HIS	CA-C-N	6.35	129.72	120.71
1	8m	87	HIS	C-N-CA	6.35	129.72	120.71
1	8H	149	SER	CA-C-N	6.35	129.16	120.46
1	8H	149	SER	C-N-CA	6.35	129.16	120.46
1	91	121	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	94	26	VAL	N-CA-C	6.35	117.10	110.62
1	98	90	PRO	CA-C-N	6.35	129.01	120.50
1	98	90	PRO	C-N-CA	6.35	129.01	120.50
1	9b	28	GLU	N-CA-C	6.35	117.86	111.07
1	9g	37	ILE	N-CA-CB	6.35	115.40	110.45
1	9j	191	VAL	N-CA-C	-6.35	106.14	112.17
1	9B	21	ASN	N-CA-C	6.35	117.86	111.07
1	9P	9	GLN	CA-C-N	6.35	130.16	120.82
1	9P	9	GLN	C-N-CA	6.35	130.16	120.82
1	a9	67	GLN	N-CA-C	6.35	118.20	111.28
1	11	61	GLY	CA-C-N	6.35	131.14	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	11	61	GLY	C-N-CA	6.35	131.14	122.19
1	aH	40	PHE	CA-C-N	6.35	128.69	120.44
1	aH	40	PHE	C-N-CA	6.35	128.69	120.44
1	aP	124	ILE	N-CA-C	-6.35	100.81	107.60
1	aQ	146	SER	N-CA-C	6.35	117.38	109.57
1	b0	170	LYS	CA-C-N	6.35	129.31	120.29
1	b0	170	LYS	C-N-CA	6.35	129.31	120.29
1	b5	23	TRP	CA-CB-CG	6.35	125.67	113.60
1	bL	38	PRO	O-C-N	6.35	130.84	122.27
1	c2	204	ALA	CA-C-O	6.35	126.78	119.35
1	c4	146	SER	CA-C-N	6.35	127.78	119.84
1	c4	146	SER	C-N-CA	6.35	127.78	119.84
1	cm	55	MET	CB-CA-C	-6.35	100.06	110.85
1	cU	14	ALA	N-CA-C	6.35	119.44	110.23
1	dg	201	ILE	O-C-N	-6.35	115.69	121.91
1	do	132	ARG	CB-CA-C	-6.35	100.91	110.88
1	dq	132	ARG	NE-CZ-NH2	-6.35	113.48	119.20
1	dq	141	ILE	O-C-N	-6.35	115.69	121.91
1	ds	150	ILE	N-CA-CB	6.35	118.41	110.47
1	dG	114	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	dY	14	ALA	N-CA-CB	6.35	119.31	109.85
1	e5	200	THR	CA-C-N	6.35	129.44	120.42
1	e5	200	THR	C-N-CA	6.35	129.44	120.42
1	ea	108	THR	CB-CA-C	-6.35	100.80	111.02
1	eh	159	GLU	CA-C-N	6.35	126.32	119.78
1	eh	159	GLU	C-N-CA	6.35	126.32	119.78
1	et	27	VAL	N-CA-C	6.35	117.10	110.62
1	ey	121	ASN	O-C-N	-6.35	115.28	121.38
1	f0	84	HIS	CA-C-N	6.35	126.32	119.78
1	f0	84	HIS	C-N-CA	6.35	126.32	119.78
1	fp	196	PRO	N-CA-C	6.35	123.21	113.75
1	fq	91	ILE	N-CA-C	6.35	117.94	109.37
1	1y	51	ASP	O-C-N	-6.35	114.91	122.15
1	fG	162	ARG	NE-CZ-NH2	6.35	124.91	119.20
1	fM	51	ASP	CA-CB-CG	6.35	118.95	112.60
1	1z	158	LYS	N-CA-CB	6.35	120.16	110.44
1	fQ	57	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	0	208	ALA	O-C-N	-6.35	114.96	122.58
1	g	226	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	I	158	LYS	N-CA-C	-6.35	102.92	111.87
1	Q	10	MET	CG-SD-CE	-6.35	86.93	100.90
1	6	205	LEU	O-C-N	-6.35	115.29	122.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gh	123	PRO	N-CA-CB	6.35	108.65	103.32
1	gm	124	ILE	N-CA-CB	6.35	119.04	111.23
1	gq	159	GLU	N-CA-C	6.35	117.70	109.64
1	gs	107	THR	CA-C-O	6.35	127.15	120.42
1	gB	90	PRO	N-CA-CB	6.35	108.84	103.25
1	gL	121	ASN	CA-CB-CG	6.35	118.95	112.60
1	h2	161	PHE	CA-C-N	6.35	129.08	120.38
1	h2	161	PHE	C-N-CA	6.35	129.08	120.38
1	h9	126	VAL	CA-CB-CG2	6.35	121.19	110.40
1	hd	143	ARG	CA-C-N	6.35	129.30	120.29
1	hd	143	ARG	C-N-CA	6.35	129.30	120.29
1	hs	222	GLY	O-C-N	-6.35	115.44	122.61
1	1M	148	THR	CA-C-O	6.35	125.99	118.69
1	iz	14	ALA	N-CA-CB	-6.35	100.64	109.97
1	iD	49	PRO	CA-C-N	6.35	128.69	120.44
1	iD	49	PRO	C-N-CA	6.35	128.69	120.44
1	iF	179	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	iW	88	ALA	CA-C-O	6.35	126.03	119.05
1	j2	7	GLN	CG-CD-NE2	6.35	125.92	116.40
1	j8	212	GLU	CA-C-N	6.35	128.79	120.28
1	j8	212	GLU	C-N-CA	6.35	128.79	120.28
1	jw	59	VAL	N-CA-C	6.35	117.23	109.30
1	jI	96	MET	O-C-N	-6.35	115.37	122.86
1	jP	207	PRO	N-CA-CB	-6.35	97.17	103.20
1	ka	137	GLY	N-CA-C	6.35	120.89	112.77
1	kl	42	ALA	CA-C-N	6.35	128.78	120.28
1	kl	42	ALA	C-N-CA	6.35	128.78	120.28
1	kN	226	HIS	N-CA-C	6.35	118.20	111.28
1	24	112	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	l9	66	MET	CA-C-O	6.35	127.28	120.55
1	lh	14	ALA	N-CA-C	6.35	119.43	110.23
1	ln	193	ASN	OD1-CG-ND2	-6.35	116.25	122.60
1	lC	154	ARG	NE-CZ-NH2	-6.35	113.49	119.20
1	2d	214	MET	N-CA-C	6.35	118.20	111.28
1	2j	176	GLN	CG-CD-NE2	-6.35	106.88	116.40
1	2k	36	VAL	N-CA-CB	6.35	117.98	110.55
1	2t	130	TYR	CA-C-N	6.35	129.08	120.38
1	2t	130	TYR	C-N-CA	6.35	129.08	120.38
1	2C	133	TRP	O-C-N	-6.35	115.39	122.12
1	2W	103	ASP	CA-C-N	6.35	128.56	120.56
1	2W	103	ASP	C-N-CA	6.35	128.56	120.56
1	39	184	TRP	CA-CB-CG	6.35	125.66	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	41	SER	CA-C-O	6.35	127.15	120.42
1	3J	65	ALA	N-CA-CB	-6.35	100.81	110.01
1	3M	223	GLY	CA-C-N	6.35	126.36	119.89
1	3M	223	GLY	C-N-CA	6.35	126.36	119.89
1	3X	163	ASP	CA-CB-CG	6.35	118.95	112.60
1	4a	67	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	4G	110	THR	CA-C-N	6.35	128.69	120.44
1	4G	110	THR	C-N-CA	6.35	128.69	120.44
1	4N	166	ASP	CA-CB-CG	-6.35	106.25	112.60
1	53	18	ARG	O-C-N	-6.35	115.39	122.12
1	5C	53	ASN	CA-C-N	6.35	129.07	120.44
1	5C	53	ASN	C-N-CA	6.35	129.07	120.44
1	5Y	204	ALA	N-CA-C	6.35	118.28	111.36
1	6f	27	VAL	O-C-N	-6.35	115.29	121.83
1	6m	13	GLN	N-CA-C	-6.35	99.42	109.07
1	6w	73	ILE	O-C-N	-6.35	115.69	121.91
1	6V	99	PRO	N-CA-C	6.35	121.20	111.11
1	6W	65	ALA	CA-C-N	6.35	128.79	120.28
1	6W	65	ALA	C-N-CA	6.35	128.79	120.28
1	7m	213	GLU	O-C-N	-6.35	115.39	122.12
1	7C	80	TRP	CH2-CZ2-CE2	6.35	125.75	117.50
1	7L	81	ASP	N-CA-C	6.35	119.01	111.33
1	8b	62	HIS	CB-CG-CD2	-6.35	122.95	131.20
1	8g	166	ASP	O-C-N	-6.35	115.53	122.07
1	8j	195	ASN	CA-C-N	6.35	125.77	118.85
1	8j	195	ASN	C-N-CA	6.35	125.77	118.85
1	8q	226	HIS	CA-CB-CG	-6.35	107.45	113.80
1	8z	126	VAL	N-CA-C	6.35	117.03	110.36
1	8P	100	ARG	N-CA-C	-6.35	101.39	110.59
1	8Z	100	ARG	NE-CZ-NH1	6.35	127.85	121.50
1	91	127	GLY	CA-C-O	-6.35	114.14	121.00
1	9g	66	MET	CA-C-N	6.35	128.78	120.28
1	9g	66	MET	C-N-CA	6.35	128.78	120.28
1	9m	37	ILE	CA-C-O	-6.35	114.44	118.69
1	9C	143	ARG	O-C-N	-6.35	115.39	122.12
1	9R	7	GLN	OE1-CD-NE2	-6.35	116.25	122.60
1	11	39	MET	CG-SD-CE	-6.35	86.93	100.90
1	ap	43	LEU	N-CA-C	6.35	119.18	111.82
1	av	168	PHE	CA-C-O	-6.35	114.09	121.07
1	aA	165	VAL	N-CA-C	-6.35	104.56	110.53
1	b6	97	ARG	NH1-CZ-NH2	-6.35	111.05	119.30
1	be	140	LYS	CA-C-N	6.35	128.56	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	be	140	LYS	C-N-CA	6.35	128.56	120.56
1	bv	109	SER	O-C-N	-6.35	115.76	123.19
1	ca	87	HIS	N-CA-C	6.35	118.98	110.35
1	cb	210	THR	CA-C-N	6.35	129.07	120.38
1	cb	210	THR	C-N-CA	6.35	129.07	120.38
1	co	96	MET	CA-C-O	6.35	127.30	120.38
1	cu	206	GLY	CA-C-O	-6.35	112.44	121.52
1	1g	81	ASP	O-C-N	-6.35	113.92	122.43
1	cS	39	MET	N-CA-C	6.35	117.86	111.07
1	cZ	28	GLU	N-CA-CB	6.35	119.45	110.12
1	1j	143	ARG	NE-CZ-NH1	-6.35	115.15	121.50
1	dh	111	LEU	CA-C-N	6.35	129.42	120.28
1	dh	111	LEU	C-N-CA	6.35	129.42	120.28
1	dh	195	ASN	N-CA-C	6.35	118.66	109.84
1	dq	134	ILE	CB-CA-C	6.35	119.83	111.70
1	dt	149	SER	CA-C-N	6.35	129.16	120.46
1	dt	149	SER	C-N-CA	6.35	129.16	120.46
1	dK	95	GLN	CA-C-N	6.35	129.88	120.87
1	dK	95	GLN	C-N-CA	6.35	129.88	120.87
1	e9	183	ASN	N-CA-C	6.35	118.20	111.28
1	ec	170	LYS	CA-C-N	6.35	129.30	120.29
1	ec	170	LYS	C-N-CA	6.35	129.30	120.29
1	ef	56	LEU	O-C-N	-6.35	114.92	122.15
1	eD	129	ILE	CA-C-N	6.35	128.79	120.28
1	eD	129	ILE	C-N-CA	6.35	128.79	120.28
1	eJ	220	GLY	CA-C-O	6.35	127.86	121.00
1	eV	199	LYS	N-CA-C	6.35	119.01	111.71
1	eW	173	ARG	O-C-N	-6.35	113.70	122.46
1	fb	100	ARG	CA-C-N	6.35	127.14	120.03
1	fb	100	ARG	C-N-CA	6.35	127.14	120.03
1	ff	135	ILE	O-C-N	-6.35	115.71	121.87
1	fz	25	LYS	N-CA-C	6.35	118.20	111.28
1	fB	103	ASP	N-CA-C	6.35	118.28	111.36
1	fC	133	TRP	O-C-N	-6.35	115.39	122.12
1	T	88	ALA	O-C-N	-6.35	114.72	122.34
1	gB	140	LYS	CA-C-N	6.35	129.15	120.46
1	gB	140	LYS	C-N-CA	6.35	129.15	120.46
1	gM	230	VAL	N-CA-C	6.35	119.81	109.78
1	gT	11	VAL	N-CA-C	-6.35	98.38	107.77
1	gT	20	LEU	CA-C-O	6.35	127.15	120.42
1	h9	145	TYR	CA-C-O	6.35	126.77	119.35
1	hE	97	ARG	O-C-N	-6.35	115.79	122.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	128	GLU	CA-C-N	6.35	128.56	120.56
1	iQ	128	GLU	C-N-CA	6.35	128.56	120.56
1	iZ	184	TRP	CA-C-O	6.35	127.15	120.42
1	js	164	TYR	CA-C-N	6.35	129.15	120.46
1	js	164	TYR	C-N-CA	6.35	129.15	120.46
1	kk	222	GLY	O-C-N	-6.35	116.06	123.17
1	kl	200	THR	CA-C-N	6.35	128.56	120.56
1	kl	200	THR	C-N-CA	6.35	128.56	120.56
1	2Q	168	PHE	CB-CA-C	6.35	121.47	110.68
1	2X	98	GLU	N-CA-CB	6.35	118.61	110.04
1	3f	100	ARG	O-C-N	-6.35	114.91	122.65
1	3k	59	VAL	N-CA-CB	-6.35	103.78	110.82
1	4a	190	LEU	N-CA-CB	-6.35	100.79	110.12
1	4z	190	LEU	CA-C-O	-6.35	113.69	120.42
1	5P	18	ARG	NE-CZ-NH2	6.35	124.91	119.20
1	7c	87	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	7U	120	HIS	CA-CB-CG	6.35	120.15	113.80
1	88	188	THR	OG1-CB-CG2	-6.35	96.61	109.30
1	8l	67	GLN	N-CA-CB	6.35	119.45	110.12
1	9l	173	ARG	CA-C-O	6.35	127.19	119.38
1	1a	124	ILE	N-CA-C	-6.35	101.87	108.15
1	dh	161	PHE	CA-CB-CG	6.35	120.15	113.80
1	e0	124	ILE	CB-CA-C	6.35	117.50	110.71
1	e1	157	PRO	CA-C-N	6.35	129.07	120.44
1	e1	157	PRO	C-N-CA	6.35	129.07	120.44
1	eh	201	ILE	N-CA-C	6.35	116.51	110.42
1	ev	173	ARG	NE-CZ-NH1	-6.35	115.15	121.50
1	1u	117	TRP	CB-CG-CD2	6.35	135.68	126.80
1	fv	15	ILE	O-C-N	-6.35	116.63	122.79
1	fw	81	ASP	CA-C-N	6.35	129.61	120.79
1	fw	81	ASP	C-N-CA	6.35	129.61	120.79
1	V	150	ILE	CA-C-N	6.35	129.42	120.28
1	V	150	ILE	C-N-CA	6.35	129.42	120.28
1	gg	228	ALA	N-CA-C	6.34	119.91	108.17
1	gK	48	THR	CA-C-O	-6.34	113.40	120.25
1	gK	168	PHE	N-CA-C	6.34	117.86	111.07
1	hg	119	THR	CA-CB-CG2	-6.34	99.71	110.50
1	it	184	TRP	CB-CG-CD1	-6.34	117.38	126.90
1	it	226	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	iF	171	THR	CA-C-N	6.34	131.32	120.72
1	iF	171	THR	C-N-CA	6.34	131.32	120.72
1	iM	143	ARG	NE-CZ-NH2	6.34	124.91	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	15	ILE	N-CA-C	6.34	118.24	109.80
1	iZ	87	HIS	O-C-N	6.34	130.85	123.17
1	j5	59	VAL	N-CA-C	6.34	117.23	109.30
1	j8	176	GLN	CA-C-N	6.34	129.85	120.90
1	j8	176	GLN	C-N-CA	6.34	129.85	120.90
1	je	111	LEU	CA-C-N	6.34	129.07	120.38
1	je	111	LEU	C-N-CA	6.34	129.07	120.38
1	jf	84	HIS	CA-CB-CG	6.34	120.14	113.80
1	jx	72	THR	CA-CB-CG2	6.34	121.29	110.50
1	jz	36	VAL	CA-C-N	6.34	124.24	120.24
1	jz	36	VAL	C-N-CA	6.34	124.24	120.24
1	kq	59	VAL	CA-C-N	6.34	126.86	119.94
1	kq	59	VAL	C-N-CA	6.34	126.86	119.94
1	kr	144	MET	CG-SD-CE	-6.34	86.94	100.90
1	kD	113	GLU	CA-C-N	6.34	128.69	120.44
1	kD	113	GLU	C-N-CA	6.34	128.69	120.44
1	kD	141	ILE	CA-C-O	-6.34	114.35	120.95
1	kY	204	ALA	N-CA-C	6.34	118.19	111.28
1	l5	109	SER	O-C-N	-6.34	115.99	123.41
1	lc	92	GLU	O-C-N	-6.34	115.65	121.30
1	lv	135	ILE	N-CA-C	6.34	117.09	110.62
1	2a	162	ARG	CA-C-O	6.34	127.48	120.63
1	lO	81	ASP	O-C-N	-6.34	115.39	122.12
1	2g	223	GLY	CA-C-N	6.34	127.77	119.84
1	2g	223	GLY	C-N-CA	6.34	127.77	119.84
1	2i	84	HIS	CA-C-N	6.34	126.72	119.93
1	2i	84	HIS	C-N-CA	6.34	126.72	119.93
1	39	196	PRO	O-C-N	-6.34	114.62	122.23
1	3i	12	HIS	CG-CD2-NE2	6.34	113.55	107.20
1	3z	33	SER	CA-C-N	6.34	126.47	119.87
1	3z	33	SER	C-N-CA	6.34	126.47	119.87
1	3F	163	ASP	CA-C-O	6.34	127.28	119.79
1	3G	195	ASN	CA-CB-CG	6.34	118.94	112.60
1	42	132	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	4a	62	HIS	ND1-CG-CD2	6.34	112.44	106.10
1	4Q	91	ILE	O-C-N	-6.34	116.20	122.67
1	4V	116	GLY	O-C-N	-6.34	116.10	122.19
1	4W	24	VAL	O-C-N	-6.34	115.72	121.87
1	59	84	HIS	CA-C-N	6.34	126.29	119.76
1	59	84	HIS	C-N-CA	6.34	126.29	119.76
1	5a	39	MET	CA-C-N	6.34	128.69	120.44
1	5a	39	MET	C-N-CA	6.34	128.69	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5s	25	LYS	N-CA-C	6.34	117.86	111.07
1	5E	220	GLY	O-C-N	-6.34	114.45	122.70
1	5O	3	VAL	O-C-N	-6.34	115.91	122.82
1	5R	35	GLU	CB-CG-CD	6.34	123.39	112.60
1	6d	4	GLN	O-C-N	-6.34	115.50	122.67
1	6B	129	ILE	CA-C-O	6.34	127.55	120.95
1	6C	190	LEU	CA-C-N	6.34	129.43	120.42
1	6C	190	LEU	C-N-CA	6.34	129.43	120.42
1	6N	32	PHE	N-CA-C	-6.34	105.12	112.92
1	74	123	PRO	CA-C-N	-6.34	117.33	122.85
1	74	123	PRO	C-N-CA	-6.34	117.33	122.85
1	7i	26	VAL	N-CA-C	6.34	116.49	110.53
1	7m	166	ASP	CA-CB-CG	6.34	118.94	112.60
1	7J	178	SER	N-CA-C	6.34	120.03	110.64
1	8q	124	ILE	CB-CA-C	6.34	118.53	111.04
1	8D	3	VAL	N-CA-C	-6.34	99.16	108.23
1	8P	7	GLN	O-C-N	-6.34	115.53	123.27
1	9x	44	SER	CA-C-O	6.34	127.11	119.43
1	9R	100	ARG	CA-C-N	-6.34	112.92	120.03
1	9R	100	ARG	C-N-CA	-6.34	112.92	120.03
1	a3	49	PRO	CA-C-N	6.34	128.78	120.28
1	a3	49	PRO	C-N-CA	6.34	128.78	120.28
1	al	68	MET	CA-C-O	-6.34	113.82	120.55
1	ap	204	ALA	CA-C-O	6.34	127.27	120.55
1	au	27	VAL	O-C-N	-6.34	115.30	121.83
1	au	175	GLU	CA-C-O	-6.34	114.47	121.89
1	aw	167	ARG	N-CA-C	6.34	118.28	111.36
1	aS	181	VAL	O-C-N	-6.34	115.72	121.87
1	aU	132	ARG	NE-CZ-NH2	-6.34	113.49	119.20
1	bg	169	TYR	O-C-N	-6.34	115.39	122.12
1	bL	33	SER	O-C-N	-6.34	115.94	121.71
1	bN	164	TYR	N-CA-C	6.34	118.19	111.28
1	c0	14	ALA	O-C-N	-6.34	115.15	122.89
1	c1	53	ASN	CB-CG-ND2	6.34	125.92	116.40
1	c4	14	ALA	N-CA-C	6.34	118.98	110.35
1	c4	104	ILE	N-CA-C	6.34	117.09	110.62
1	c5	154	ARG	NE-CZ-NH2	-6.34	113.49	119.20
1	cz	211	LEU	N-CA-C	6.34	120.28	112.54
1	cG	118	MET	N-CA-C	6.34	120.28	112.54
1	cN	78	ALA	N-CA-C	6.34	118.20	111.28
1	cQ	97	ARG	NE-CZ-NH2	-6.34	113.49	119.20
1	1h	81	ASP	O-C-N	-6.34	115.54	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ds	91	ILE	CA-C-O	6.34	127.55	120.95
1	dt	124	ILE	O-C-N	-6.34	116.05	121.57
1	dJ	125	PRO	CA-C-N	6.34	128.78	120.60
1	dJ	125	PRO	C-N-CA	6.34	128.78	120.60
1	dJ	151	LEU	N-CA-CB	-6.34	101.10	110.49
1	dX	62	HIS	ND1-CE1-NE2	6.34	114.75	108.40
1	ed	88	ALA	O-C-N	-6.34	115.17	122.09
1	1q	80	TRP	N-CA-C	6.34	118.19	111.28
1	ev	98	GLU	N-CA-C	6.34	119.05	110.29
1	1s	193	ASN	CA-CB-CG	-6.34	106.26	112.60
1	eZ	184	TRP	CA-C-O	-6.34	113.69	120.42
1	fn	5	ASN	CA-C-O	-6.34	114.41	121.51
1	fS	227	LYS	N-CA-C	6.34	117.86	111.07
1	0	227	LYS	CA-C-O	6.34	129.58	120.51
1	1	160	PRO	CA-C-O	-6.34	114.20	121.56
1	t	34	PRO	N-CA-CB	6.34	109.91	103.25
1	z	39	MET	CA-C-N	6.34	128.69	120.44
1	z	39	MET	C-N-CA	6.34	128.69	120.44
1	C	62	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	6	199	LYS	O-C-N	-6.34	115.54	122.07
1	gf	183	ASN	O-C-N	-6.34	115.54	122.07
1	he	80	TRP	CA-C-N	6.34	129.30	120.29
1	he	80	TRP	C-N-CA	6.34	129.30	120.29
1	1N	195	ASN	CA-C-O	-6.34	113.79	120.70
1	iA	195	ASN	CA-C-N	6.34	127.77	119.84
1	iA	195	ASN	C-N-CA	6.34	127.77	119.84
1	iZ	60	GLY	CA-C-N	6.34	127.70	120.53
1	iZ	60	GLY	C-N-CA	6.34	127.70	120.53
1	jq	166	ASP	CA-C-N	6.34	128.69	120.44
1	jq	166	ASP	C-N-CA	6.34	128.69	120.44
1	js	84	HIS	CA-C-N	6.34	127.77	119.84
1	js	84	HIS	C-N-CA	6.34	127.77	119.84
1	1X	55	MET	CB-CA-C	-6.34	100.92	110.88
1	k4	139	ASN	CA-CB-CG	6.34	118.94	112.60
1	ko	146	SER	N-CA-C	6.34	121.50	113.25
1	kN	187	GLU	N-CA-C	6.34	119.18	111.82
1	lF	25	LYS	N-CA-C	6.34	119.00	111.33
1	3S	173	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	4o	22	ALA	N-CA-C	-6.34	104.29	111.14
1	57	42	ALA	N-CA-C	6.34	117.86	111.07
1	57	140	LYS	CA-C-O	6.34	127.23	120.70
1	5i	53	ASN	CA-CB-CG	6.34	118.94	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	65	120	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	6i	25	LYS	N-CA-C	6.34	118.19	111.28
1	6y	117	TRP	N-CA-C	6.34	118.19	111.28
1	6F	218	CYS	CA-C-N	6.34	129.07	120.38
1	6F	218	CYS	C-N-CA	6.34	129.07	120.38
1	73	37	ILE	N-CA-CB	-6.34	102.33	111.21
1	7g	54	THR	CA-C-N	6.34	129.30	120.29
1	7g	54	THR	C-N-CA	6.34	129.30	120.29
1	7D	62	HIS	CB-CG-CD2	-6.34	122.95	131.20
1	82	124	ILE	CB-CA-C	-6.34	103.48	110.78
1	8K	87	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	8K	181	VAL	O-C-N	-6.34	115.30	121.90
1	9k	224	PRO	CA-C-O	-6.34	109.06	120.60
1	aR	12	HIS	O-C-N	6.34	130.63	122.89
1	bn	3	VAL	CA-C-N	6.34	129.02	120.65
1	bn	3	VAL	C-N-CA	6.34	129.02	120.65
1	bu	163	ASP	CA-CB-CG	-6.34	106.26	112.60
1	cG	213	GLU	CA-C-O	6.34	127.17	119.31
1	dM	173	ARG	NH1-CZ-NH2	-6.34	111.05	119.30
1	dS	26	VAL	N-CA-C	6.34	122.53	109.34
1	ew	98	GLU	N-CA-C	6.34	118.83	110.08
1	f3	97	ARG	NE-CZ-NH2	-6.34	113.49	119.20
1	fh	219	GLN	OE1-CD-NE2	6.34	128.94	122.60
1	p	230	VAL	N-CA-C	6.34	116.51	110.42
1	W	63	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	gb	172	LEU	O-C-N	-6.34	114.92	122.15
1	gg	162	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	gl	82	ARG	N-CA-C	6.34	118.19	111.28
1	gq	26	VAL	N-CA-C	6.34	117.09	110.62
1	gP	79	GLU	CA-C-N	6.34	128.78	120.28
1	gP	79	GLU	C-N-CA	6.34	128.78	120.28
1	1G	102	SER	N-CA-C	6.34	118.19	111.28
1	h6	182	LYS	N-CA-C	6.34	119.00	111.71
1	h9	12	HIS	CG-CD2-NE2	6.34	113.54	107.20
1	h9	18	ARG	CB-CG-CD	6.34	125.89	111.30
1	h9	42	ALA	N-CA-C	6.34	118.19	111.28
1	hk	22	ALA	CA-C-N	6.34	129.06	120.44
1	hk	22	ALA	C-N-CA	6.34	129.06	120.44
1	hn	67	GLN	CA-C-O	6.34	127.27	120.55
1	hR	213	GLU	CA-C-N	6.34	128.69	120.44
1	hR	213	GLU	C-N-CA	6.34	128.69	120.44
1	i1	74	ASN	CA-CB-CG	6.34	118.94	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i3	111	LEU	CA-C-O	6.34	127.27	120.10
1	id	20	LEU	CA-C-N	6.34	129.07	120.38
1	id	20	LEU	C-N-CA	6.34	129.07	120.38
1	io	230	VAL	N-CA-CB	6.34	121.69	111.23
1	1R	51	ASP	CA-C-O	-6.34	114.17	120.70
1	j3	3	VAL	O-C-N	-6.34	116.33	123.18
1	j6	48	THR	O-C-N	-6.34	114.43	121.53
1	j8	64	ALA	N-CA-C	6.34	117.86	111.07
1	ju	92	GLU	CA-C-N	6.34	127.77	119.84
1	ju	92	GLU	C-N-CA	6.34	127.77	119.84
1	jw	87	HIS	CG-CD2-NE2	6.34	113.54	107.20
1	jz	18	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	jM	183	ASN	OD1-CG-ND2	-6.34	116.26	122.60
1	jY	81	ASP	O-C-N	-6.34	115.40	122.12
1	k7	219	GLN	N-CA-C	6.34	117.86	111.07
1	kb	65	ALA	O-C-N	-6.34	115.24	122.09
1	ki	167	ARG	N-CA-CB	-6.34	100.78	110.16
1	km	22	ALA	CA-C-O	6.34	127.27	120.55
1	kv	68	MET	CA-C-N	6.34	128.68	120.44
1	kv	68	MET	C-N-CA	6.34	128.68	120.44
1	kA	122	PRO	CA-C-N	6.34	126.29	119.76
1	kA	122	PRO	C-N-CA	6.34	126.29	119.76
1	l4	149	SER	N-CA-CB	6.34	121.21	110.49
1	la	224	PRO	N-CD-CG	6.34	112.71	103.20
1	lB	186	THR	N-CA-CB	6.34	119.21	110.01
1	lD	142	VAL	N-CA-CB	6.34	122.25	110.77
1	lK	141	ILE	N-CA-CB	6.34	119.17	110.54
1	2c	10	MET	CG-SD-CE	-6.34	86.95	100.90
1	2x	139	ASN	O-C-N	6.34	128.84	122.12
1	2R	84	HIS	CG-CD2-NE2	6.34	113.54	107.20
1	2U	23	TRP	O-C-N	-6.34	114.50	122.17
1	33	46	GLY	CA-C-N	6.34	129.83	120.95
1	33	46	GLY	C-N-CA	6.34	129.83	120.95
1	34	183	ASN	CA-CB-CG	6.34	118.94	112.60
1	3j	45	GLU	N-CA-C	6.34	119.81	110.30
1	3n	73	ILE	CA-CB-CG1	6.34	121.18	110.40
1	3q	15	ILE	N-CA-C	6.34	117.61	109.30
1	3w	104	ILE	CA-C-N	6.34	128.78	120.28
1	3w	104	ILE	C-N-CA	6.34	128.78	120.28
1	3I	200	THR	CA-C-N	6.34	128.55	120.56
1	3I	200	THR	C-N-CA	6.34	128.55	120.56
1	3K	84	HIS	CE1-NE2-CD2	-6.34	102.66	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4a	129	ILE	CA-CB-CG2	6.34	121.28	110.50
1	4e	38	PRO	N-CA-CB	6.34	110.54	103.44
1	50	191	VAL	CA-C-N	6.34	128.78	120.28
1	50	191	VAL	C-N-CA	6.34	128.78	120.28
1	5j	18	ARG	N-CA-CB	6.34	119.21	110.01
1	5j	138	LEU	CA-C-N	6.34	128.78	120.28
1	5j	138	LEU	C-N-CA	6.34	128.78	120.28
1	5j	193	ASN	CA-CB-CG	-6.34	106.26	112.60
1	5k	87	HIS	CA-C-N	6.34	131.73	122.41
1	5k	87	HIS	C-N-CA	6.34	131.73	122.41
1	5M	182	LYS	N-CA-C	6.34	117.86	111.07
1	5Y	143	ARG	NE-CZ-NH2	-6.34	113.49	119.20
1	61	52	LEU	CA-C-N	6.34	128.68	120.44
1	61	52	LEU	C-N-CA	6.34	128.68	120.44
1	62	82	ARG	NH1-CZ-NH2	-6.34	111.06	119.30
1	65	123	PRO	CA-C-N	6.34	127.16	122.59
1	65	123	PRO	C-N-CA	6.34	127.16	122.59
1	6b	63	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	6f	146	SER	N-CA-C	6.34	123.82	109.81
1	6l	177	ALA	N-CA-C	6.34	118.48	110.24
1	6v	159	GLU	CB-CG-CD	6.34	123.38	112.60
1	6w	64	ALA	O-C-N	-6.34	115.54	122.07
1	6E	171	THR	CA-C-N	6.34	129.41	120.28
1	6E	171	THR	C-N-CA	6.34	129.41	120.28
1	6S	206	GLY	CA-C-N	6.34	127.77	119.84
1	6S	206	GLY	C-N-CA	6.34	127.77	119.84
1	7o	227	LYS	N-CA-C	6.34	120.30	111.74
1	7M	58	THR	CA-C-N	6.34	130.68	121.80
1	7M	58	THR	C-N-CA	6.34	130.68	121.80
1	8h	103	ASP	N-CA-C	6.34	118.19	111.28
1	8w	139	ASN	O-C-N	-6.34	115.50	122.09
1	8E	14	ALA	N-CA-C	6.34	118.90	110.53
1	8I	168	PHE	CA-C-N	6.34	128.78	120.28
1	8I	168	PHE	C-N-CA	6.34	128.78	120.28
1	9f	133	TRP	N-CA-C	6.34	118.19	111.28
1	9F	166	ASP	CA-C-N	6.34	128.78	120.28
1	9F	166	ASP	C-N-CA	6.34	128.78	120.28
1	9V	40	PHE	N-CA-C	6.34	118.72	111.11
1	a2	226	HIS	O-C-N	-6.34	114.97	122.58
1	ab	159	GLU	CA-C-N	6.34	127.77	119.84
1	ab	159	GLU	C-N-CA	6.34	127.77	119.84
1	am	180	GLU	CB-CG-CD	6.34	123.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	at	127	GLY	O-C-N	-6.34	116.04	122.19
1	13	121	ASN	O-C-N	-6.34	115.75	121.39
1	aT	54	THR	O-C-N	-6.34	115.40	122.12
1	ba	51	ASP	CA-C-N	6.34	128.78	120.28
1	ba	51	ASP	C-N-CA	6.34	128.78	120.28
1	bd	25	LYS	N-CA-C	6.34	118.19	111.28
1	br	17	PRO	N-CA-CB	-6.34	96.03	103.26
1	bH	68	MET	CA-C-N	6.34	128.78	120.28
1	bH	68	MET	C-N-CA	6.34	128.78	120.28
1	1d	138	LEU	CA-C-O	-6.34	113.83	120.55
1	cs	217	ALA	CA-C-N	6.34	131.16	122.34
1	cs	217	ALA	C-N-CA	6.34	131.16	122.34
1	cB	124	ILE	CA-C-O	-6.34	111.45	119.95
1	cW	154	ARG	NE-CZ-NH2	6.34	124.91	119.20
1	dn	201	ILE	N-CA-CB	6.34	117.97	110.55
1	dy	32	PHE	CA-C-O	6.34	127.25	120.46
1	dz	111	LEU	N-CA-C	6.34	119.87	111.75
1	dM	100	ARG	O-C-N	-6.34	113.87	122.94
1	ez	197	ASP	CA-C-O	6.34	127.28	120.24
1	eF	212	GLU	N-CA-C	6.34	119.00	111.71
1	f6	217	ALA	CA-C-O	6.34	127.48	120.82
1	fg	84	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	fl	7	GLN	CA-C-N	6.34	126.12	120.10
1	fl	7	GLN	C-N-CA	6.34	126.12	120.10
1	1x	120	HIS	CA-CB-CG	6.34	120.14	113.80
1	fO	195	ASN	CA-C-O	-6.34	113.79	120.70
1	g0	159	GLU	O-C-N	-6.34	113.85	121.02
1	h	143	ARG	N-CA-C	6.34	117.86	111.07
1	i	148	THR	CA-CB-OG1	6.34	119.11	109.60
1	j	54	THR	N-CA-CB	6.34	119.27	110.07
1	p	88	ALA	CA-C-N	6.34	131.82	121.87
1	p	88	ALA	C-N-CA	6.34	131.82	121.87
1	O	38	PRO	CA-C-N	6.34	128.78	120.28
1	O	38	PRO	C-N-CA	6.34	128.78	120.28
1	gk	110	THR	O-C-N	-6.34	114.44	122.43
1	gs	116	GLY	CA-C-N	6.34	128.68	120.44
1	gs	116	GLY	C-N-CA	6.34	128.68	120.44
1	gt	148	THR	CA-C-O	-6.34	114.48	121.33
1	gu	16	SER	CA-C-O	-6.34	114.89	120.60
1	gC	33	SER	O-C-N	-6.34	115.94	121.71
1	1F	50	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	gP	18	ARG	CA-C-N	6.34	128.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gP	18	ARG	C-N-CA	6.34	128.78	120.28
1	gZ	115	ILE	O-C-N	6.34	128.12	121.91
1	hg	133	TRP	CB-CG-CD1	6.34	136.41	126.90
1	hl	16	SER	CA-C-O	-6.34	114.58	119.46
1	hs	144	MET	CA-C-O	6.34	127.14	120.42
1	hC	55	MET	N-CA-C	6.34	118.19	111.28
1	ib	62	HIS	ND1-CG-CD2	6.34	112.44	106.10
1	1O	186	THR	CA-CB-OG1	6.34	119.11	109.60
1	in	108	THR	CB-CA-C	-6.34	99.85	110.56
1	iq	62	HIS	N-CA-C	6.34	119.92	111.30
1	iA	177	ALA	CA-C-N	6.34	129.71	120.71
1	iA	177	ALA	C-N-CA	6.34	129.71	120.71
1	j6	206	GLY	CA-C-N	6.34	126.46	119.87
1	j6	206	GLY	C-N-CA	6.34	126.46	119.87
1	jm	104	ILE	CA-C-N	6.34	131.31	120.72
1	jm	104	ILE	C-N-CA	6.34	131.31	120.72
1	jx	18	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	1Y	138	LEU	CA-C-N	6.34	129.95	120.31
1	1Y	138	LEU	C-N-CA	6.34	129.95	120.31
1	1Z	185	MET	N-CA-C	6.34	118.19	111.28
1	kr	100	ARG	NH1-CZ-NH2	-6.34	111.06	119.30
1	kL	149	SER	N-CA-CB	6.34	119.30	110.17
1	lc	21	ASN	CA-CB-CG	-6.34	106.26	112.60
1	lq	135	ILE	CA-CB-CG2	6.34	121.28	110.50
1	lw	24	VAL	O-C-N	-6.34	115.30	121.83
1	lA	197	ASP	CB-CA-C	-6.34	99.50	110.09
1	2i	43	LEU	O-C-N	-6.34	114.80	122.22
1	2x	175	GLU	CA-C-O	6.34	128.28	121.05
1	2z	97	ARG	N-CA-C	6.34	118.48	110.24
1	2B	189	LEU	N-CA-CB	6.34	119.20	110.01
1	3s	183	ASN	OD1-CG-ND2	-6.34	116.26	122.60
1	3F	124	ILE	N-CA-CB	6.34	120.09	111.21
1	3P	115	ILE	N-CA-C	6.34	117.09	110.62
1	4c	209	ALA	N-CA-C	6.34	119.56	110.24
1	4r	143	ARG	NE-CZ-NH2	-6.34	113.50	119.20
1	4J	24	VAL	CA-CB-CG2	6.34	121.18	110.40
1	50	79	GLU	CA-C-N	6.34	128.78	120.28
1	50	79	GLU	C-N-CA	6.34	128.78	120.28
1	51	143	ARG	CA-C-N	6.34	128.78	120.28
1	51	143	ARG	C-N-CA	6.34	128.78	120.28
1	56	42	ALA	CA-C-O	-6.34	112.31	119.79
1	5G	48	THR	CA-C-N	6.34	126.55	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	48	THR	C-N-CA	6.34	126.55	119.32
1	5O	127	GLY	CA-C-O	-6.34	113.94	120.66
1	6n	14	ALA	N-CA-C	6.34	120.40	110.32
1	6q	127	GLY	CA-C-N	6.34	130.33	120.82
1	6q	127	GLY	C-N-CA	6.34	130.33	120.82
1	6u	139	ASN	CA-CB-CG	-6.34	106.26	112.60
1	7G	41	SER	CA-C-N	6.34	128.68	120.44
1	7G	41	SER	C-N-CA	6.34	128.68	120.44
1	87	100	ARG	CA-C-N	6.34	126.97	120.00
1	87	100	ARG	C-N-CA	6.34	126.97	120.00
1	8v	53	ASN	O-C-N	-6.34	115.40	122.12
1	8X	135	ILE	CA-C-N	6.34	128.68	120.44
1	8X	135	ILE	C-N-CA	6.34	128.68	120.44
1	98	62	HIS	CB-CG-CD2	-6.34	122.96	131.20
1	9q	50	GLN	CA-C-O	6.34	127.27	120.55
1	9s	37	ILE	N-CA-CB	6.34	120.09	111.21
1	9w	77	ALA	N-CA-C	6.34	118.19	111.28
1	9Q	161	PHE	CA-CB-CG	-6.34	107.46	113.80
1	9T	23	TRP	CB-CG-CD2	6.34	135.67	126.80
1	9T	51	ASP	O-C-N	-6.34	115.54	122.07
1	a3	78	ALA	CA-C-O	6.34	127.26	119.97
1	ad	62	HIS	N-CA-C	6.34	120.14	111.39
1	aj	28	GLU	CB-CA-C	-6.34	98.62	109.65
1	aK	4	GLN	OE1-CD-NE2	6.34	128.94	122.60
1	aR	112	GLN	N-CA-C	6.34	118.19	111.28
1	aT	154	ARG	O-C-N	-6.34	116.84	123.56
1	b2	59	VAL	N-CA-C	6.34	117.02	110.36
1	ba	18	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	bi	53	ASN	CA-CB-CG	-6.34	106.26	112.60
1	bB	201	ILE	N-CA-CB	6.34	118.39	110.47
1	19	135	ILE	CA-C-N	6.34	128.68	120.44
1	19	135	ILE	C-N-CA	6.34	128.68	120.44
1	bC	21	ASN	N-CA-CB	-6.34	100.80	110.12
1	bK	27	VAL	N-CA-C	6.34	117.09	110.62
1	c3	86	VAL	CA-C-O	-6.34	115.24	121.58
1	1d	19	THR	CB-CA-C	-6.34	100.93	110.88
1	cj	124	ILE	N-CA-C	-6.34	97.69	107.71
1	d5	53	ASN	N-CA-C	6.34	118.19	111.28
1	dj	197	ASP	CA-CB-CG	-6.34	106.26	112.60
1	dj	202	LEU	O-C-N	-6.34	114.92	122.15
1	1k	151	LEU	CA-C-O	-6.34	113.83	120.55
1	do	46	GLY	CA-C-O	6.34	125.29	118.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	du	28	GLU	CA-C-N	6.34	128.68	120.44
1	du	28	GLU	C-N-CA	6.34	128.68	120.44
1	dw	84	HIS	CG-CD2-NE2	6.34	113.54	107.20
1	dD	223	GLY	CA-C-N	6.34	126.70	119.92
1	dD	223	GLY	C-N-CA	6.34	126.70	119.92
1	dP	184	TRP	CA-C-N	6.34	128.68	120.44
1	dP	184	TRP	C-N-CA	6.34	128.68	120.44
1	el	57	ASN	CA-CB-CG	-6.34	106.26	112.60
1	et	9	GLN	OE1-CD-NE2	6.34	128.94	122.60
1	1u	54	THR	O-C-N	-6.34	115.40	122.12
1	f2	129	ILE	CA-C-N	6.34	128.78	120.28
1	f2	129	ILE	C-N-CA	6.34	128.78	120.28
1	fj	141	ILE	O-C-N	-6.34	115.30	121.83
1	g5	15	ILE	CA-C-N	6.34	130.30	120.60
1	g5	15	ILE	C-N-CA	6.34	130.30	120.60
1	3	120	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	M	68	MET	N-CA-C	6.34	118.19	111.28
1	Q	182	LYS	N-CA-C	6.34	118.19	111.28
1	9	170	LYS	CA-C-O	6.34	127.27	120.55
1	hv	114	GLN	CA-C-O	6.34	127.47	120.82
1	hx	121	ASN	OD1-CG-ND2	-6.34	116.26	122.60
1	hB	193	ASN	CA-CB-CG	6.34	118.94	112.60
1	hG	117	TRP	N-CA-C	6.34	119.00	111.71
1	i1	131	LYS	CA-C-N	6.34	128.77	120.28
1	i1	131	LYS	C-N-CA	6.34	128.77	120.28
1	ib	19	THR	N-CA-C	6.34	119.17	111.82
1	ka	51	ASP	CA-C-N	6.34	128.77	120.28
1	ka	51	ASP	C-N-CA	6.34	128.77	120.28
1	21	178	SER	O-C-N	-6.34	114.71	122.82
1	kl	212	GLU	CA-C-O	-6.34	113.83	120.55
1	kw	3	VAL	N-CA-C	6.34	118.57	109.51
1	28	149	SER	O-C-N	-6.34	115.81	123.10
1	lI	187	GLU	N-CA-C	6.34	117.98	111.14
1	2p	110	THR	CA-C-N	6.34	128.77	120.28
1	2p	110	THR	C-N-CA	6.34	128.77	120.28
1	2x	121	ASN	O-C-N	-6.34	115.96	121.35
1	2W	144	MET	CG-SD-CE	-6.34	86.96	100.90
1	3A	91	ILE	O-C-N	-6.34	116.53	123.18
1	3O	97	ARG	O-C-N	-6.34	115.02	122.81
1	48	200	THR	CB-CA-C	-6.34	100.84	110.92
1	4P	16	SER	CA-C-N	6.34	125.83	119.24
1	4P	16	SER	C-N-CA	6.34	125.83	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5K	17	PRO	N-CA-C	-6.34	104.91	113.40
1	6S	112	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	7Y	24	VAL	O-C-N	-6.34	115.72	121.87
1	83	130	TYR	N-CA-C	6.34	118.27	111.36
1	8l	160	PRO	CA-C-N	6.34	130.33	120.82
1	8l	160	PRO	C-N-CA	6.34	130.33	120.82
1	8x	158	LYS	O-C-N	-6.34	114.21	122.39
1	8Q	216	THR	CA-CB-OG1	6.34	119.11	109.60
1	9g	31	ALA	CA-C-N	6.34	132.18	122.29
1	9g	31	ALA	C-N-CA	6.34	132.18	122.29
1	9L	66	MET	N-CA-C	6.34	118.27	111.36
1	a0	193	ASN	CA-CB-CG	-6.34	106.26	112.60
1	a6	16	SER	O-C-N	-6.34	114.70	121.42
1	ah	189	LEU	CA-C-N	6.34	128.77	120.28
1	ah	189	LEU	C-N-CA	6.34	128.77	120.28
1	13	24	VAL	CB-CA-C	6.34	119.99	111.88
1	aH	32	PHE	N-CA-C	-6.34	105.30	113.16
1	aL	128	GLU	N-CA-C	6.34	118.19	111.28
1	17	35	GLU	CB-CG-CD	6.34	123.37	112.60
1	bx	136	LEU	N-CA-CB	-6.34	100.50	109.94
1	bR	167	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	c2	185	MET	O-C-N	-6.34	114.80	122.22
1	c3	167	ARG	N-CA-C	6.34	118.19	111.28
1	1m	215	MET	O-C-N	-6.34	115.54	122.07
1	eg	15	ILE	O-C-N	-6.34	115.91	122.63
1	eK	70	LYS	N-CA-C	6.34	118.72	111.11
1	1u	112	GLN	OE1-CD-NE2	-6.34	116.26	122.60
1	f8	118	MET	N-CA-C	6.34	119.00	111.71
1	fN	167	ARG	O-C-N	-6.34	115.40	122.12
1	i	160	PRO	CB-CA-C	-6.34	103.51	111.56
1	k	37	ILE	CA-C-N	6.34	125.91	119.19
1	k	37	ILE	C-N-CA	6.34	125.91	119.19
1	4	62	HIS	CB-CG-CD2	6.34	139.44	131.20
1	gy	67	GLN	N-CA-C	6.34	117.85	111.07
1	gB	26	VAL	CA-C-N	6.34	128.54	120.56
1	gB	26	VAL	C-N-CA	6.34	128.54	120.56
1	gB	134	ILE	N-CA-CB	6.34	117.96	110.55
1	gH	166	ASP	CA-C-O	6.34	127.27	120.55
1	gS	192	GLN	CA-C-O	6.34	127.27	119.79
1	gX	81	ASP	O-C-N	-6.34	115.54	122.07
1	1J	210	THR	CA-CB-OG1	6.34	119.11	109.60
1	hF	115	ILE	CA-C-O	6.34	127.57	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i4	44	SER	N-CA-C	6.34	119.94	112.72
1	i6	111	LEU	CA-C-N	6.34	129.41	120.28
1	i6	111	LEU	C-N-CA	6.34	129.41	120.28
1	ib	104	ILE	CA-CB-CG2	6.34	121.27	110.50
1	iB	230	VAL	O-C-N	-6.34	115.91	122.63
1	iF	35	GLU	CA-C-O	6.34	127.26	120.10
1	iU	59	VAL	CA-C-O	6.34	128.26	121.04
1	js	24	VAL	N-CA-C	6.34	117.08	110.62
1	jB	2	ILE	CB-CA-C	6.34	118.77	110.91
1	1X	53	ASN	CA-CB-CG	-6.34	106.26	112.60
1	jJ	60	GLY	CA-C-O	6.34	131.60	120.57
1	jU	188	THR	OG1-CB-CG2	-6.34	96.63	109.30
1	k4	82	ARG	CA-C-N	6.34	128.77	120.28
1	k4	82	ARG	C-N-CA	6.34	128.77	120.28
1	kb	204	ALA	O-C-N	-6.34	115.25	122.09
1	ks	132	ARG	CA-C-O	-6.34	113.83	120.55
1	kC	140	LYS	N-CA-C	6.34	117.85	111.07
1	kF	210	THR	CA-C-N	6.34	128.68	120.44
1	kF	210	THR	C-N-CA	6.34	128.68	120.44
1	kI	169	TYR	N-CA-C	6.34	119.17	111.82
1	kI	187	GLU	N-CA-C	6.34	117.88	110.97
1	kT	149	SER	CB-CA-C	-6.34	100.35	110.81
1	l1	17	PRO	N-CA-C	-6.34	105.27	113.57
1	lq	87	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	lr	55	MET	O-C-N	-6.34	115.30	122.08
1	lO	139	ASN	CA-C-N	6.34	128.68	120.44
1	lO	139	ASN	C-N-CA	6.34	128.68	120.44
1	2e	100	ARG	CA-C-N	6.34	128.11	120.13
1	2e	100	ARG	C-N-CA	6.34	128.11	120.13
1	2A	163	ASP	CA-CB-CG	6.34	118.94	112.60
1	2D	76	GLU	CB-CG-CD	-6.34	101.83	112.60
1	2H	163	ASP	CA-CB-CG	6.34	118.94	112.60
1	37	136	LEU	N-CA-C	6.34	118.27	111.36
1	3n	231	LEU	N-CA-CB	6.34	121.27	110.50
1	3o	148	THR	O-C-N	-6.34	115.62	122.85
1	3t	182	LYS	O-C-N	-6.34	115.54	122.07
1	3F	77	ALA	N-CA-C	6.34	118.19	111.28
1	42	42	ALA	O-C-N	-6.34	114.93	122.15
1	56	12	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	58	78	ALA	O-C-N	-6.34	113.84	122.33
1	5t	87	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	5w	179	GLN	CA-C-N	6.34	128.68	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5w	179	GLN	C-N-CA	6.34	128.68	120.44
1	5S	92	GLU	N-CA-C	6.34	118.83	110.08
1	68	35	GLU	CA-C-N	6.34	130.48	120.47
1	68	35	GLU	C-N-CA	6.34	130.48	120.47
1	6h	168	PHE	O-C-N	-6.34	115.25	122.09
1	6w	166	ASP	CA-C-N	6.34	128.77	120.28
1	6w	166	ASP	C-N-CA	6.34	128.77	120.28
1	6K	54	THR	CA-C-N	6.34	128.68	120.44
1	6K	54	THR	C-N-CA	6.34	128.68	120.44
1	6M	81	ASP	CA-CB-CG	6.34	118.94	112.60
1	77	59	VAL	O-C-N	-6.34	115.91	122.63
1	7d	116	GLY	N-CA-C	6.34	119.85	112.50
1	7G	92	GLU	O-C-N	-6.34	114.33	121.43
1	7H	132	ARG	NH1-CZ-NH2	-6.34	111.06	119.30
1	7Q	3	VAL	O-C-N	-6.34	115.78	123.00
1	8q	125	PRO	CA-C-N	6.34	129.14	120.46
1	8q	125	PRO	C-N-CA	6.34	129.14	120.46
1	8v	78	ALA	CA-C-N	6.34	129.01	120.65
1	8v	78	ALA	C-N-CA	6.34	129.01	120.65
1	8G	6	LEU	O-C-N	-6.34	115.86	123.27
1	8L	216	THR	CA-C-O	-6.34	112.68	119.97
1	8S	226	HIS	CE1-NE2-CD2	-6.34	102.66	109.00
1	8U	192	GLN	CA-C-O	6.34	127.14	120.42
1	95	143	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	96	173	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	9x	211	LEU	CA-C-N	6.34	128.68	120.44
1	9x	211	LEU	C-N-CA	6.34	128.68	120.44
1	9C	212	GLU	N-CA-C	-6.34	104.45	111.36
1	ag	134	ILE	CB-CA-C	-6.34	102.34	112.16
1	aJ	173	ARG	NE-CZ-NH2	-6.34	113.50	119.20
1	aK	130	TYR	CB-CG-CD1	6.34	130.31	120.80
1	aR	75	GLU	N-CA-C	6.34	118.19	111.28
1	15	62	HIS	CB-CA-C	-6.34	103.01	111.63
1	b0	168	PHE	CA-CB-CG	-6.34	107.46	113.80
1	bo	218	CYS	N-CA-CB	6.34	121.20	110.49
1	bA	138	LEU	N-CA-C	6.34	118.19	111.28
1	bB	107	THR	OG1-CB-CG2	-6.34	96.63	109.30
1	1a	96	MET	CA-C-N	6.34	129.71	120.71
1	1a	96	MET	C-N-CA	6.34	129.71	120.71
1	bP	62	HIS	CB-CG-ND1	-6.34	113.19	122.70
1	co	5	ASN	N-CA-CB	6.34	119.29	110.17
1	cD	47	ALA	O-C-N	-6.34	115.84	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cT	135	ILE	CA-C-N	6.34	128.68	120.44
1	cT	135	ILE	C-N-CA	6.34	128.68	120.44
1	dd	101	GLY	CA-C-N	6.34	131.45	120.68
1	dd	101	GLY	C-N-CA	6.34	131.45	120.68
1	de	166	ASP	CA-C-N	6.34	128.77	120.28
1	de	166	ASP	C-N-CA	6.34	128.77	120.28
1	dr	6	LEU	O-C-N	-6.34	116.01	123.11
1	dy	78	ALA	CA-C-N	6.34	128.77	120.28
1	dy	78	ALA	C-N-CA	6.34	128.77	120.28
1	e6	17	PRO	N-CA-CB	6.34	110.23	103.39
1	eh	198	CYS	CA-C-N	6.34	129.06	120.38
1	eh	198	CYS	C-N-CA	6.34	129.06	120.38
1	eE	18	ARG	NE-CZ-NH1	6.34	127.84	121.50
1	eJ	198	CYS	CA-C-N	6.34	129.06	120.38
1	eJ	198	CYS	C-N-CA	6.34	129.06	120.38
1	eZ	71	GLU	N-CA-C	6.34	117.85	111.07
1	f2	23	TRP	O-C-N	-6.34	115.54	122.07
1	f3	84	HIS	ND1-CE1-NE2	6.34	114.74	108.40
1	1x	21	ASN	N-CA-C	6.34	118.27	111.36
1	fx	49	PRO	CA-C-N	6.34	129.06	120.38
1	fx	49	PRO	C-N-CA	6.34	129.06	120.38
1	fy	192	GLN	N-CA-C	6.34	118.19	111.28
1	g1	86	VAL	O-C-N	-6.34	115.73	122.83
1	D	153	ILE	N-CA-CB	6.34	118.05	110.95
1	J	36	VAL	CB-CA-C	-6.34	103.58	112.14
1	Q	18	ARG	CA-C-N	6.34	128.77	120.28
1	Q	18	ARG	C-N-CA	6.34	128.77	120.28
1	S	106	GLY	CA-C-N	6.34	129.06	120.44
1	S	106	GLY	C-N-CA	6.34	129.06	120.44
1	gf	155	GLN	CA-C-O	6.33	128.01	121.23
1	gt	116	GLY	O-C-N	-6.33	116.11	122.19
1	gI	222	GLY	O-C-N	6.33	129.76	122.60
1	h9	192	GLN	CA-C-O	-6.33	113.83	120.55
1	hm	151	LEU	CA-C-O	6.33	126.68	119.27
1	hC	19	THR	N-CA-C	6.33	118.19	111.28
1	1O	48	THR	N-CA-CB	6.33	118.52	109.78
1	if	129	ILE	N-CA-C	6.33	116.50	110.42
1	jl	140	LYS	O-C-N	-6.33	114.48	122.27
1	jG	72	THR	N-CA-C	6.33	118.27	111.36
1	kd	130	TYR	N-CA-C	6.33	118.19	111.28
1	21	90	PRO	CA-C-N	6.33	128.99	120.50
1	21	90	PRO	C-N-CA	6.33	128.99	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kE	206	GLY	O-C-N	-6.33	115.44	121.77
1	lf	165	VAL	N-CA-C	6.33	117.84	110.62
1	li	51	ASP	CA-C-N	6.33	128.68	120.44
1	li	51	ASP	C-N-CA	6.33	128.68	120.44
1	lj	223	GLY	O-C-N	-6.33	115.44	121.77
1	lo	19	THR	CA-C-O	6.33	127.47	120.82
1	2h	162	ARG	NE-CZ-NH2	-6.33	113.50	119.20
1	2I	21	ASN	CA-CB-CG	6.33	118.94	112.60
1	30	39	MET	N-CA-C	6.33	118.71	111.11
1	3C	159	GLU	CA-C-O	-6.33	113.47	119.80
1	3W	54	THR	O-C-N	-6.33	115.55	122.07
1	4q	86	VAL	N-CA-C	6.33	117.92	108.54
1	4L	120	HIS	CG-CD2-NE2	6.33	113.53	107.20
1	4R	225	GLY	CA-C-N	6.33	132.97	122.33
1	4R	225	GLY	C-N-CA	6.33	132.97	122.33
1	4X	206	GLY	CA-C-N	6.33	126.25	119.28
1	4X	206	GLY	C-N-CA	6.33	126.25	119.28
1	5l	104	ILE	CA-C-O	6.33	127.54	120.95
1	6U	18	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	6Z	22	ALA	CA-C-N	6.33	128.68	120.44
1	6Z	22	ALA	C-N-CA	6.33	128.68	120.44
1	7i	27	VAL	O-C-N	-6.33	115.72	121.87
1	7N	200	THR	CA-C-N	6.33	128.54	120.56
1	7N	200	THR	C-N-CA	6.33	128.54	120.56
1	7U	100	ARG	O-C-N	-6.33	115.84	122.94
1	8Q	54	THR	N-CA-CB	6.33	119.20	110.01
1	9d	153	ILE	CA-C-N	6.33	129.75	120.82
1	9d	153	ILE	C-N-CA	6.33	129.75	120.82
1	9z	230	VAL	N-CA-CB	6.33	121.00	110.86
1	9S	205	LEU	CA-C-N	6.33	131.82	121.87
1	9S	205	LEU	C-N-CA	6.33	131.82	121.87
1	a2	16	SER	CA-C-O	-6.33	111.56	119.54
1	ak	193	ASN	OD1-CG-ND2	6.33	128.94	122.60
1	aB	39	MET	CA-C-O	6.33	127.47	120.82
1	bd	98	GLU	CA-C-N	6.33	126.29	119.76
1	bd	98	GLU	C-N-CA	6.33	126.29	119.76
1	18	197	ASP	CA-C-N	6.33	128.68	120.44
1	18	197	ASP	C-N-CA	6.33	128.68	120.44
1	bP	169	TYR	N-CA-C	6.33	118.19	111.28
1	cV	11	VAL	CA-C-O	-6.33	114.83	121.93
1	ds	59	VAL	CA-C-O	-6.33	114.45	121.17
1	dQ	120	HIS	ND1-CE1-NE2	6.33	114.73	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e0	167	ARG	NE-CZ-NH2	-6.33	113.50	119.20
1	ei	69	LEU	N-CA-C	6.33	117.85	111.07
1	eJ	64	ALA	CA-C-N	6.33	129.09	120.54
1	eJ	64	ALA	C-N-CA	6.33	129.09	120.54
1	fy	158	LYS	CA-C-O	6.33	127.06	119.59
1	fG	195	ASN	CB-CA-C	6.33	119.36	109.42
1	V	67	GLN	N-CA-C	6.33	117.85	111.07
1	X	100	ARG	CA-C-N	6.33	127.01	119.98
1	X	100	ARG	C-N-CA	6.33	127.01	119.98
1	6	78	ALA	N-CA-C	6.33	117.85	111.07
1	gv	135	ILE	CA-C-N	6.33	128.77	120.28
1	gv	135	ILE	C-N-CA	6.33	128.77	120.28
1	1F	24	VAL	O-C-N	6.33	128.12	121.91
1	gQ	76	GLU	CA-C-N	6.33	128.77	120.28
1	gQ	76	GLU	C-N-CA	6.33	128.77	120.28
1	hQ	114	GLN	N-CA-C	6.33	117.98	111.14
1	hY	68	MET	N-CA-C	6.33	118.18	111.28
1	i6	19	THR	N-CA-C	6.33	117.85	111.07
1	i8	12	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	ih	105	ALA	O-C-N	-6.33	114.74	122.34
1	j9	22	ALA	CA-C-N	6.33	128.77	120.28
1	j9	22	ALA	C-N-CA	6.33	128.77	120.28
1	jB	184	TRP	N-CA-C	6.33	118.18	111.28
1	jE	63	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	1X	36	VAL	N-CA-C	6.33	117.12	110.72
1	jH	173	ARG	N-CA-C	6.33	118.18	111.28
1	k2	26	VAL	CA-CB-CG1	6.33	121.17	110.40
1	k2	73	ILE	N-CA-CB	6.33	120.08	110.58
1	k2	79	GLU	CA-C-N	6.33	129.06	120.38
1	k2	79	GLU	C-N-CA	6.33	129.06	120.38
1	kq	166	ASP	O-C-N	-6.33	115.41	122.12
1	kq	167	ARG	N-CA-C	6.33	117.85	111.07
1	24	188	THR	N-CA-CB	6.33	121.19	110.49
1	kU	174	ALA	CA-C-N	6.33	130.36	121.24
1	kU	174	ALA	C-N-CA	6.33	130.36	121.24
1	kV	91	ILE	CA-CB-CG1	6.33	121.17	110.40
1	lp	105	ALA	N-CA-CB	-6.33	100.83	110.01
1	lw	21	ASN	CA-C-N	6.33	128.77	120.28
1	lw	21	ASN	C-N-CA	6.33	128.77	120.28
1	lw	148	THR	N-CA-C	6.33	119.46	109.96
1	2m	84	HIS	CA-C-N	6.33	126.30	119.78
1	2m	84	HIS	C-N-CA	6.33	126.30	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	146	SER	CA-C-N	6.33	127.76	119.84
1	2o	146	SER	C-N-CA	6.33	127.76	119.84
1	2u	16	SER	N-CA-CB	6.33	120.03	110.02
1	3r	76	GLU	CA-C-N	6.33	128.67	120.44
1	3r	76	GLU	C-N-CA	6.33	128.67	120.44
1	3s	97	ARG	NE-CZ-NH2	-6.33	113.50	119.20
1	3x	104	ILE	CA-C-O	6.33	127.88	121.17
1	3T	116	GLY	CA-C-N	6.33	129.01	120.65
1	3T	116	GLY	C-N-CA	6.33	129.01	120.65
1	3V	191	VAL	CA-C-N	6.33	129.06	120.38
1	3V	191	VAL	C-N-CA	6.33	129.06	120.38
1	3Z	159	GLU	N-CA-C	6.33	117.87	109.83
1	44	90	PRO	N-CA-C	6.33	125.52	112.47
1	4l	148	THR	O-C-N	-6.33	115.92	123.27
1	4D	168	PHE	N-CA-C	6.33	117.85	111.07
1	4U	108	THR	N-CA-C	6.33	121.05	112.88
1	5x	106	GLY	CA-C-O	6.33	126.34	119.06
1	5S	101	GLY	CA-C-O	6.33	127.27	120.30
1	5W	73	ILE	N-CA-C	6.33	117.01	110.36
1	60	201	ILE	N-CA-C	6.33	117.08	110.62
1	63	173	ARG	CG-CD-NE	-6.33	98.06	112.00
1	69	15	ILE	O-C-N	-6.33	116.21	122.67
1	6H	152	ASP	CA-C-N	6.33	131.44	120.86
1	6H	152	ASP	C-N-CA	6.33	131.44	120.86
1	6R	156	GLY	CA-C-O	-6.33	112.46	121.52
1	6Z	55	MET	N-CA-C	6.33	117.85	111.07
1	70	51	ASP	CA-C-O	6.33	127.26	120.55
1	7j	218	CYS	CA-C-N	6.33	129.05	120.44
1	7j	218	CYS	C-N-CA	6.33	129.05	120.44
1	7k	182	LYS	N-CA-C	6.33	119.86	111.75
1	7o	32	PHE	CA-C-N	6.33	130.29	120.60
1	7o	32	PHE	C-N-CA	6.33	130.29	120.60
1	7D	99	PRO	N-CA-CB	6.33	108.62	103.36
1	8Q	139	ASN	O-C-N	-6.33	115.41	122.12
1	9c	64	ALA	CA-C-N	6.33	128.77	120.28
1	9c	64	ALA	C-N-CA	6.33	128.77	120.28
1	9m	153	ILE	CA-C-O	-6.33	113.19	120.98
1	9t	79	GLU	CA-C-N	6.33	129.28	120.29
1	9t	79	GLU	C-N-CA	6.33	129.28	120.29
1	9z	117	TRP	CD2-CE2-CZ2	-6.33	116.07	122.40
1	9A	16	SER	N-CA-C	6.33	117.36	109.57
1	9E	21	ASN	CB-CA-C	6.33	120.83	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9O	229	ARG	CA-C-O	6.33	128.25	121.16
1	9Z	145	TYR	CA-C-N	6.33	129.89	120.83
1	9Z	145	TYR	C-N-CA	6.33	129.89	120.83
1	a4	163	ASP	CA-CB-CG	-6.33	106.27	112.60
1	a6	97	ARG	NE-CZ-NH2	6.33	124.90	119.20
1	af	102	SER	CA-C-N	6.33	129.28	120.29
1	af	102	SER	C-N-CA	6.33	129.28	120.29
1	11	53	ASN	CA-CB-CG	6.33	118.93	112.60
1	ao	159	GLU	CA-C-N	6.33	127.76	119.84
1	ao	159	GLU	C-N-CA	6.33	127.76	119.84
1	as	57	ASN	OD1-CG-ND2	-6.33	116.27	122.60
1	aH	208	ALA	CA-C-O	6.33	126.65	119.18
1	14	142	VAL	N-CA-C	6.33	117.08	110.62
1	aR	82	ARG	CA-C-N	6.33	128.77	120.28
1	aR	82	ARG	C-N-CA	6.33	128.77	120.28
1	bb	159	GLU	CA-C-N	6.33	127.76	119.84
1	bb	159	GLU	C-N-CA	6.33	127.76	119.84
1	bf	4	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	bm	134	ILE	N-CA-CB	6.33	117.54	110.51
1	bE	67	GLN	N-CA-C	6.33	119.17	111.82
1	cx	62	HIS	CB-CA-C	-6.33	103.71	111.82
1	1g	84	HIS	O-C-N	-6.33	112.67	121.47
1	dq	24	VAL	O-C-N	-6.33	115.31	121.83
1	dC	199	LYS	N-CA-C	6.33	119.17	111.82
1	dO	67	GLN	CA-C-N	6.33	128.77	120.28
1	dO	67	GLN	C-N-CA	6.33	128.77	120.28
1	e9	161	PHE	CA-CB-CG	-6.33	107.47	113.80
1	fG	63	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	1z	146	SER	N-CA-CB	6.33	121.64	110.37
1	fO	15	ILE	O-C-N	-6.33	116.65	122.79
1	g1	97	ARG	O-C-N	-6.33	115.39	122.86
1	g1	210	THR	O-C-N	-6.33	115.34	122.75
1	g2	87	HIS	N-CA-C	6.33	119.80	110.30
1	d	181	VAL	N-CA-C	6.33	116.50	110.42
1	e	174	ALA	CA-C-N	6.33	130.39	121.02
1	e	174	ALA	C-N-CA	6.33	130.39	121.02
1	e	187	GLU	N-CA-CB	-6.33	100.79	110.16
1	r	24	VAL	O-C-N	-6.33	115.73	121.87
1	v	192	GLN	CA-C-N	6.33	128.77	120.28
1	v	192	GLN	C-N-CA	6.33	128.77	120.28
1	D	148	THR	CA-CB-OG1	6.33	119.10	109.60
1	3	120	HIS	CE1-NE2-CD2	-6.33	102.67	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	134	ILE	N-CA-C	6.33	117.08	110.62
1	S	221	VAL	O-C-N	-6.33	115.87	122.20
1	gb	5	ASN	CA-C-N	6.33	132.99	123.05
1	gb	5	ASN	C-N-CA	6.33	132.99	123.05
1	gk	142	VAL	CA-C-O	6.33	128.08	121.05
1	gM	146	SER	O-C-N	-6.33	113.90	121.12
1	gO	120	HIS	CG-CD2-NE2	6.33	113.53	107.20
1	gR	80	TRP	CA-C-N	6.33	128.67	120.44
1	gR	80	TRP	C-N-CA	6.33	128.67	120.44
1	gR	137	GLY	O-C-N	-6.33	116.05	122.19
1	gS	48	THR	CA-C-O	-6.33	113.54	121.01
1	h4	113	GLU	CA-C-N	6.33	129.09	120.54
1	h4	113	GLU	C-N-CA	6.33	129.09	120.54
1	h9	61	GLY	CA-C-O	-6.33	113.26	122.06
1	hg	80	TRP	CA-C-N	6.33	128.76	120.28
1	hg	80	TRP	C-N-CA	6.33	128.76	120.28
1	hy	223	GLY	CA-C-N	6.33	127.75	119.84
1	hy	223	GLY	C-N-CA	6.33	127.75	119.84
1	hE	187	GLU	CA-C-N	6.33	128.67	120.44
1	hE	187	GLU	C-N-CA	6.33	128.67	120.44
1	1L	72	THR	CA-C-O	6.33	127.47	120.82
1	hQ	95	GLN	N-CA-C	6.33	120.39	110.32
1	hS	229	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	if	132	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	ip	217	ALA	N-CA-C	6.33	119.22	110.35
1	iz	134	ILE	CA-C-N	6.33	128.77	120.60
1	iz	134	ILE	C-N-CA	6.33	128.77	120.60
1	iI	166	ASP	N-CA-C	6.33	118.75	111.02
1	iQ	65	ALA	CA-C-O	-6.33	114.17	120.82
1	jl	133	TRP	CB-CA-C	-6.33	97.47	110.38
1	jn	229	ARG	N-CA-C	-6.33	104.71	112.88
1	jF	167	ARG	CA-C-N	6.33	129.05	120.38
1	jF	167	ARG	C-N-CA	6.33	129.05	120.38
1	jQ	77	ALA	N-CA-CB	-6.33	100.56	110.06
1	kJ	195	ASN	CA-CB-CG	-6.33	106.27	112.60
1	lu	179	GLN	CA-C-N	6.33	129.06	120.38
1	lu	179	GLN	C-N-CA	6.33	129.06	120.38
1	lF	85	PRO	N-CA-CB	-6.33	97.44	103.33
1	2a	229	ARG	NE-CZ-NH2	6.33	124.90	119.20
1	2x	176	GLN	N-CA-C	-6.33	105.59	113.38
1	3g	199	LYS	N-CA-C	6.33	118.18	111.28
1	3o	149	SER	O-C-N	-6.33	115.78	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	40	14	ALA	CA-C-N	6.33	129.05	120.63
1	40	14	ALA	C-N-CA	6.33	129.05	120.63
1	4D	229	ARG	CA-C-N	6.33	130.68	121.18
1	4D	229	ARG	C-N-CA	6.33	130.68	121.18
1	55	214	MET	CB-CA-C	-6.33	100.94	110.88
1	5f	37	ILE	N-CA-CB	6.33	115.39	110.45
1	5f	195	ASN	OD1-CG-ND2	6.33	128.93	122.60
1	5m	12	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	5s	38	PRO	CB-CA-C	6.33	122.05	112.55
1	5u	57	ASN	CA-CB-CG	-6.33	106.27	112.60
1	5v	36	VAL	CA-C-O	-6.33	114.69	121.27
1	5I	6	LEU	CA-C-O	6.33	127.13	120.36
1	5U	185	MET	CA-C-N	6.33	128.67	120.44
1	5U	185	MET	C-N-CA	6.33	128.67	120.44
1	68	150	ILE	CA-C-O	6.33	127.53	120.95
1	6i	45	GLU	CA-C-N	6.33	133.82	121.41
1	6i	45	GLU	C-N-CA	6.33	133.82	121.41
1	6s	14	ALA	N-CA-C	6.33	119.17	110.24
1	6z	183	ASN	O-C-N	-6.33	115.55	122.07
1	6N	216	THR	N-CA-C	6.33	117.84	111.07
1	6P	65	ALA	CA-C-O	6.33	127.26	120.55
1	8b	24	VAL	CA-C-O	-6.33	114.47	121.05
1	8x	134	ILE	N-CA-C	6.33	117.08	110.62
1	8G	9	GLN	N-CA-CB	6.33	122.46	111.13
1	8M	59	VAL	O-C-N	-6.33	114.66	122.57
1	8Y	4	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	9f	124	ILE	N-CA-CB	6.33	118.78	111.31
1	9w	63	GLN	CG-CD-NE2	6.33	125.90	116.40
1	at	98	GLU	CA-C-N	6.33	127.33	119.98
1	at	98	GLU	C-N-CA	6.33	127.33	119.98
1	aO	55	MET	CG-SD-CE	-6.33	86.97	100.90
1	bf	84	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	bz	50	GLN	N-CA-C	6.33	118.18	111.28
1	c2	51	ASP	O-C-N	-6.33	115.55	122.07
1	ck	20	LEU	N-CA-C	6.33	118.18	111.28
1	cP	39	MET	CA-C-O	6.33	127.47	120.63
1	cT	70	LYS	N-CA-C	6.33	118.18	111.28
1	d0	193	ASN	CB-CG-ND2	6.33	125.90	116.40
1	db	56	LEU	O-C-N	-6.33	115.25	122.09
1	dl	74	ASN	N-CA-C	6.33	118.18	111.28
1	dr	207	PRO	CA-C-N	6.33	132.43	122.49
1	dr	207	PRO	C-N-CA	6.33	132.43	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dy	48	THR	O-C-N	-6.33	114.34	121.43
1	dE	4	GLN	CA-C-N	6.33	128.67	120.44
1	dE	4	GLN	C-N-CA	6.33	128.67	120.44
1	dE	13	GLN	OE1-CD-NE2	6.33	128.93	122.60
1	e7	53	ASN	CA-CB-CG	-6.33	106.27	112.60
1	em	198	CYS	CA-C-N	6.33	129.62	120.38
1	em	198	CYS	C-N-CA	6.33	129.62	120.38
1	eD	75	GLU	N-CA-C	6.33	117.85	111.07
1	eF	29	GLU	N-CA-CB	-6.33	100.56	110.44
1	eI	173	ARG	NE-CZ-NH2	-6.33	113.50	119.20
1	eR	42	ALA	CA-C-O	6.33	127.26	120.55
1	fD	81	ASP	O-C-N	-6.33	115.51	122.09
1	fE	129	ILE	N-CA-C	6.33	116.50	110.42
1	fE	166	ASP	CA-C-N	6.33	129.93	120.31
1	fE	166	ASP	C-N-CA	6.33	129.93	120.31
1	fU	132	ARG	N-CA-C	6.33	117.85	111.07
1	fW	72	THR	CA-C-O	6.33	127.26	120.55
1	fY	119	THR	CA-CB-OG1	6.33	119.10	109.60
1	g1	49	PRO	N-CA-C	6.33	122.99	113.81
1	g7	173	ARG	O-C-N	-6.33	113.95	122.43
1	D	62	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	4	70	LYS	N-CA-C	6.33	118.18	111.28
1	Q	100	ARG	N-CA-C	-6.33	102.62	110.41
1	gl	96	MET	CA-C-O	6.33	127.98	120.70
1	gV	103	ASP	CA-CB-CG	-6.33	106.27	112.60
1	hw	22	ALA	N-CA-C	6.33	117.84	111.07
1	iz	221	VAL	N-CA-C	6.33	117.19	108.84
1	iQ	91	ILE	O-C-N	-6.33	116.38	123.03
1	jk	7	GLN	O-C-N	-6.33	115.46	123.06
1	jF	101	GLY	N-CA-C	6.33	121.82	114.16
1	kL	52	LEU	CA-C-N	6.33	128.76	120.28
1	kL	52	LEU	C-N-CA	6.33	128.76	120.28
1	kO	226	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	l6	50	GLN	O-C-N	-6.33	115.41	122.12
1	27	23	TRP	CA-C-O	6.33	127.47	120.82
1	2t	41	SER	O-C-N	-6.33	114.81	122.22
1	2S	27	VAL	N-CA-C	6.33	116.50	110.42
1	3g	64	ALA	N-CA-C	6.33	119.16	111.82
1	3U	114	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	44	19	THR	CA-C-N	6.33	128.67	120.44
1	44	19	THR	C-N-CA	6.33	128.67	120.44
1	5b	9	GLN	O-C-N	-6.33	114.17	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5c	63	GLN	N-CA-C	6.33	118.99	111.71
1	5E	225	GLY	CA-C-N	-6.33	114.35	122.77
1	5E	225	GLY	C-N-CA	-6.33	114.35	122.77
1	5R	121	ASN	O-C-N	-6.33	114.04	121.32
1	6f	143	ARG	N-CA-C	6.33	117.84	111.07
1	6q	196	PRO	N-CA-C	6.33	124.03	113.78
1	6N	37	ILE	N-CA-C	6.33	122.55	108.88
1	78	221	VAL	CA-CB-CG1	-6.33	99.64	110.40
1	7v	50	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	7W	158	LYS	N-CA-C	-6.33	104.18	112.41
1	8d	84	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	8R	167	ARG	CA-C-N	6.33	129.59	120.79
1	8R	167	ARG	C-N-CA	6.33	129.59	120.79
1	9t	3	VAL	O-C-N	-6.33	116.09	122.67
1	a8	117	TRP	N-CA-C	6.33	118.71	111.11
1	an	154	ARG	CG-CD-NE	-6.33	98.07	112.00
1	aI	19	THR	CA-C-N	6.33	128.76	120.28
1	aI	19	THR	C-N-CA	6.33	128.76	120.28
1	b0	167	ARG	O-C-N	-6.33	115.41	122.12
1	bY	4	GLN	O-C-N	-6.33	114.17	122.59
1	c5	179	GLN	N-CA-C	6.33	118.99	111.33
1	cv	63	GLN	O-C-N	-6.33	114.81	122.22
1	cI	177	ALA	N-CA-C	6.33	119.17	110.24
1	d5	44	SER	CB-CA-C	-6.33	101.48	111.17
1	1j	116	GLY	CA-C-O	-6.33	114.53	121.05
1	de	123	PRO	CA-C-N	6.33	129.97	121.23
1	de	123	PRO	C-N-CA	6.33	129.97	121.23
1	dx	129	ILE	N-CA-CB	6.33	117.96	110.55
1	dO	14	ALA	N-CA-C	6.33	118.96	110.35
1	eh	48	THR	CA-CB-OG1	6.33	119.09	109.60
1	eI	62	HIS	CB-CG-CD2	-6.33	122.97	131.20
1	f6	227	LYS	CA-C-N	6.33	130.31	120.75
1	f6	227	LYS	C-N-CA	6.33	130.31	120.75
1	fg	84	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	fT	5	ASN	CA-CB-CG	-6.33	106.27	112.60
1	gg	226	HIS	CA-C-N	6.33	129.74	120.82
1	gg	226	HIS	C-N-CA	6.33	129.74	120.82
1	gz	229	ARG	N-CA-C	6.33	118.19	110.41
1	gP	24	VAL	CB-CA-C	-6.33	103.87	111.97
1	h6	26	VAL	N-CA-C	6.33	117.08	110.62
1	hy	59	VAL	N-CA-CB	6.33	118.61	110.13
1	hY	105	ALA	N-CA-C	6.33	120.57	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	32	PHE	CA-C-N	6.33	130.28	120.60
1	ic	32	PHE	C-N-CA	6.33	130.28	120.60
1	iH	100	ARG	O-C-N	-6.33	114.87	122.65
1	iJ	6	LEU	CA-C-O	6.33	126.94	119.28
1	j0	16	SER	CA-C-N	6.33	126.08	119.05
1	j0	16	SER	C-N-CA	6.33	126.08	119.05
1	ju	12	HIS	O-C-N	-6.33	114.09	122.57
1	k1	47	ALA	CB-CA-C	-6.33	99.42	109.80
1	kh	57	ASN	OD1-CG-ND2	-6.33	116.27	122.60
1	23	120	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	kO	9	GLN	CG-CD-OE1	6.33	133.46	120.80
1	l0	75	GLU	CA-C-N	6.33	128.67	120.44
1	l0	75	GLU	C-N-CA	6.33	128.67	120.44
1	l6	115	ILE	CA-C-N	6.33	127.14	119.99
1	l6	115	ILE	C-N-CA	6.33	127.14	119.99
1	26	140	LYS	N-CA-CB	6.33	119.19	110.01
1	li	230	VAL	N-CA-C	6.33	116.50	110.42
1	lA	32	PHE	CA-CB-CG	-6.33	107.47	113.80
1	2x	118	MET	CG-SD-CE	-6.33	86.98	100.90
1	2M	97	ARG	CD-NE-CZ	6.33	133.26	124.40
1	31	21	ASN	CA-C-N	6.33	128.76	120.28
1	31	21	ASN	C-N-CA	6.33	128.76	120.28
1	32	122	PRO	CA-C-N	6.33	127.75	119.84
1	32	122	PRO	C-N-CA	6.33	127.75	119.84
1	32	133	TRP	N-CA-C	6.33	118.18	111.28
1	33	165	VAL	N-CA-C	6.33	117.00	110.36
1	3k	130	TYR	CA-C-N	6.33	128.67	120.44
1	3k	130	TYR	C-N-CA	6.33	128.67	120.44
1	3o	230	VAL	N-CA-C	6.33	117.74	109.58
1	3q	87	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	40	114	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	4j	192	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	4F	65	ALA	CA-C-N	6.33	129.28	120.29
1	4F	65	ALA	C-N-CA	6.33	129.28	120.29
1	4P	84	HIS	CA-C-O	-6.33	113.77	119.59
1	4S	165	VAL	O-C-N	-6.33	115.73	121.87
1	5d	70	LYS	N-CA-C	6.33	118.18	111.28
1	5l	21	ASN	CA-C-O	-6.33	113.80	120.63
1	5B	204	ALA	N-CA-C	-6.33	105.21	113.12
1	5C	196	PRO	CA-C-N	6.33	129.08	120.54
1	5C	196	PRO	C-N-CA	6.33	129.08	120.54
1	5O	87	HIS	ND1-CE1-NE2	6.33	114.73	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6O	15	ILE	O-C-N	-6.33	115.89	122.66
1	6P	95	GLN	CA-C-N	6.33	129.74	120.82
1	6P	95	GLN	C-N-CA	6.33	129.74	120.82
1	71	201	ILE	O-C-N	-6.33	115.32	121.90
1	7h	35	GLU	CA-C-N	6.33	128.53	120.56
1	7h	35	GLU	C-N-CA	6.33	128.53	120.56
1	7B	108	THR	CA-C-O	6.33	127.12	119.78
1	7H	13	GLN	O-C-N	-6.33	115.91	123.31
1	88	205	LEU	N-CA-C	6.33	120.20	112.23
1	8p	20	LEU	N-CA-CB	6.33	120.09	110.28
1	8s	16	SER	O-C-N	-6.33	115.80	121.31
1	9e	192	GLN	N-CA-C	6.33	118.18	111.28
1	9Q	2	ILE	O-C-N	-6.33	113.79	122.59
1	aj	134	ILE	CA-C-N	6.33	128.53	120.56
1	aj	134	ILE	C-N-CA	6.33	128.53	120.56
1	ao	27	VAL	CA-C-O	-6.33	113.64	120.47
1	aM	18	ARG	N-CA-C	6.33	118.18	111.28
1	aN	183	ASN	CA-C-O	-6.33	113.84	120.55
1	aR	190	LEU	CA-C-N	6.33	131.27	122.28
1	aR	190	LEU	C-N-CA	6.33	131.27	122.28
1	16	168	PHE	CA-C-N	6.33	129.28	120.29
1	16	168	PHE	C-N-CA	6.33	129.28	120.29
1	b9	84	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	bf	90	PRO	N-CA-C	6.33	121.17	111.11
1	bz	23	TRP	O-C-N	-6.33	114.94	122.15
1	ca	200	THR	O-C-N	-6.33	115.55	122.07
1	ch	165	VAL	N-CA-C	6.33	117.08	110.62
1	cF	26	VAL	N-CA-C	6.33	116.50	110.42
1	cT	64	ALA	CB-CA-C	-6.33	100.28	110.79
1	de	55	MET	CG-SD-CE	-6.33	86.98	100.90
1	e0	65	ALA	N-CA-C	6.33	117.84	111.07
1	ef	90	PRO	N-CA-C	6.33	121.15	111.15
1	ef	101	GLY	CA-C-N	6.33	129.93	120.31
1	ef	101	GLY	C-N-CA	6.33	129.93	120.31
1	ej	119	THR	CA-C-N	6.33	131.57	120.87
1	ej	119	THR	C-N-CA	6.33	131.57	120.87
1	ex	74	ASN	OD1-CG-ND2	-6.33	116.27	122.60
1	ey	125	PRO	CB-CA-C	6.33	121.18	112.89
1	f4	4	GLN	CA-C-O	-6.33	114.50	121.33
1	f9	165	VAL	CA-C-N	6.33	128.76	120.28
1	f9	165	VAL	C-N-CA	6.33	128.76	120.28
1	fa	185	MET	N-CA-C	6.33	119.16	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fj	172	LEU	CA-C-O	6.33	127.15	119.49
1	ft	167	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	fw	187	GLU	CA-C-N	6.33	129.09	120.54
1	fw	187	GLU	C-N-CA	6.33	129.09	120.54
1	fN	34	PRO	CA-C-N	6.33	131.44	120.68
1	fN	34	PRO	C-N-CA	6.33	131.44	120.68
1	0	36	VAL	CA-C-O	-6.33	114.46	121.17
1	g	19	THR	CA-C-N	6.33	129.08	120.54
1	g	19	THR	C-N-CA	6.33	129.08	120.54
1	q	62	HIS	CA-C-O	-6.33	114.12	122.03
1	u	81	ASP	CA-C-N	6.33	128.76	120.28
1	u	81	ASP	C-N-CA	6.33	128.76	120.28
1	v	26	VAL	CA-C-O	6.33	127.56	120.85
1	y	191	VAL	CA-C-N	6.33	129.05	120.38
1	y	191	VAL	C-N-CA	6.33	129.05	120.38
1	A	111	LEU	O-C-N	-6.33	115.41	122.12
1	H	54	THR	N-CA-CB	6.33	120.10	109.78
1	V	193	ASN	CA-CB-CG	-6.33	106.27	112.60
1	gg	100	ARG	CD-NE-CZ	6.33	133.26	124.40
1	gq	45	GLU	O-C-N	6.33	130.93	122.96
1	gv	181	VAL	CA-C-O	-6.33	114.37	120.95
1	gD	115	ILE	N-CA-C	-6.33	103.70	112.50
1	gJ	122	PRO	CA-C-N	6.33	126.28	119.76
1	gJ	122	PRO	C-N-CA	6.33	126.28	119.76
1	gK	18	ARG	CA-C-O	6.33	127.25	119.97
1	gK	98	GLU	CA-C-N	6.33	126.09	119.76
1	gK	98	GLU	C-N-CA	6.33	126.09	119.76
1	gL	52	LEU	O-C-N	6.33	128.59	122.07
1	1K	62	HIS	ND1-CG-CD2	6.33	112.43	106.10
1	im	63	GLN	N-CA-C	6.33	118.99	111.71
1	iH	68	MET	N-CA-C	6.33	118.99	111.33
1	25	84	HIS	CB-CG-ND1	-6.33	113.21	122.70
1	kZ	84	HIS	N-CA-C	6.33	118.66	109.04
1	l9	63	GLN	N-CA-C	6.33	118.99	111.71
1	lh	116	GLY	CA-C-N	6.33	128.66	120.44
1	lh	116	GLY	C-N-CA	6.33	128.66	120.44
1	2B	179	GLN	N-CA-C	6.33	118.18	111.28
1	2N	142	VAL	CB-CA-C	-6.33	103.60	112.14
1	3N	181	VAL	N-CA-C	6.33	117.07	110.62
1	4b	108	THR	N-CA-CB	6.33	119.33	110.98
1	4j	52	LEU	O-C-N	-6.33	115.41	122.12
1	4p	101	GLY	N-CA-C	6.33	119.84	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5a	115	ILE	N-CA-C	6.33	117.07	110.62
1	5w	193	ASN	OD1-CG-ND2	-6.33	116.27	122.60
1	5R	47	ALA	N-CA-C	6.33	119.04	108.73
1	6E	66	MET	O-C-N	-6.33	114.94	122.15
1	7j	120	HIS	CB-CG-CD2	-6.33	122.97	131.20
1	7N	66	MET	N-CA-C	6.33	118.18	111.28
1	7P	84	HIS	CE1-NE2-CD2	-6.33	102.67	109.00
1	7R	199	LYS	CA-C-N	6.33	128.76	120.28
1	7R	199	LYS	C-N-CA	6.33	128.76	120.28
1	8e	163	ASP	CA-C-N	6.33	128.67	120.44
1	8e	163	ASP	C-N-CA	6.33	128.67	120.44
1	9q	226	HIS	N-CA-C	6.33	119.53	110.10
1	Z	180	GLU	CA-C-O	-6.33	112.69	119.97
1	ap	27	VAL	N-CA-C	6.33	117.33	111.45
1	at	106	GLY	N-CA-C	-6.33	105.34	115.08
1	at	127	GLY	CA-C-N	6.33	129.08	120.54
1	at	127	GLY	C-N-CA	6.33	129.08	120.54
1	ax	25	LYS	CA-C-N	6.33	128.61	120.70
1	ax	25	LYS	C-N-CA	6.33	128.61	120.70
1	b4	206	GLY	CA-C-N	6.33	127.75	119.84
1	b4	206	GLY	C-N-CA	6.33	127.75	119.84
1	bS	82	ARG	CA-C-N	6.33	129.04	120.44
1	bS	82	ARG	C-N-CA	6.33	129.04	120.44
1	cz	52	LEU	N-CA-C	6.33	117.84	111.07
1	dU	131	LYS	N-CA-C	6.33	118.18	111.28
1	e7	56	LEU	CA-C-N	6.33	129.93	120.31
1	e7	56	LEU	C-N-CA	6.33	129.93	120.31
1	er	50	GLN	OE1-CD-NE2	-6.33	116.27	122.60
1	f9	122	PRO	CA-C-N	6.33	126.70	119.93
1	f9	122	PRO	C-N-CA	6.33	126.70	119.93
1	fV	120	HIS	ND1-CE1-NE2	6.33	114.73	108.40
1	c	184	TRP	CB-CG-CD1	-6.33	117.41	126.90
1	gc	164	TYR	CA-C-N	6.33	129.13	120.46
1	gc	164	TYR	C-N-CA	6.33	129.13	120.46
1	gh	120	HIS	N-CA-C	6.33	118.19	110.41
1	gr	8	GLY	CA-C-N	6.33	133.62	121.54
1	gr	8	GLY	C-N-CA	6.33	133.62	121.54
1	gN	13	GLN	O-C-N	-6.33	115.46	123.24
1	1H	107	THR	N-CA-C	-6.33	106.10	113.88
1	hd	84	HIS	CB-CG-CD2	-6.33	122.98	131.20
1	hy	183	ASN	OD1-CG-ND2	-6.33	116.27	122.60
1	hZ	126	VAL	CA-CB-CG2	6.33	121.15	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	144	MET	CA-C-O	6.33	127.13	120.42
1	ih	69	LEU	CA-C-N	6.33	128.75	120.28
1	ih	69	LEU	C-N-CA	6.33	128.75	120.28
1	ip	14	ALA	N-CA-C	6.33	119.16	110.24
1	iE	32	PHE	N-CA-C	-6.33	105.14	112.92
1	jD	148	THR	CA-CB-OG1	6.33	119.09	109.60
1	kf	223	GLY	CA-C-N	6.33	127.75	119.84
1	kf	223	GLY	C-N-CA	6.33	127.75	119.84
1	kp	175	GLU	N-CA-C	6.33	118.95	110.35
1	kG	32	PHE	CB-CG-CD2	6.33	131.45	120.70
1	kT	129	ILE	O-C-N	6.33	128.11	121.91
1	kZ	132	ARG	CA-CB-CG	6.33	126.75	114.10
1	l1	66	MET	CG-SD-CE	-6.33	86.99	100.90
1	l8	187	GLU	N-CA-C	6.33	118.26	111.36
1	lE	143	ARG	NE-CZ-NH2	-6.33	113.51	119.20
1	30	69	LEU	N-CA-CB	6.33	119.44	109.82
1	3p	132	ARG	N-CA-C	6.33	118.70	111.11
1	3q	81	ASP	CA-CB-CG	-6.33	106.27	112.60
1	3q	84	HIS	O-C-N	-6.33	115.76	121.39
1	3N	170	LYS	O-C-N	-6.33	114.49	122.27
1	3P	120	HIS	CA-C-O	6.33	129.20	121.99
1	3R	133	TRP	N-CA-CB	6.33	119.42	110.12
1	3T	113	GLU	CA-C-N	6.33	129.08	120.54
1	3T	113	GLU	C-N-CA	6.33	129.08	120.54
1	47	173	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	4m	7	GLN	N-CA-C	6.33	123.89	113.89
1	4H	183	ASN	CA-CB-CG	6.33	118.93	112.60
1	4J	18	ARG	CA-C-O	6.33	127.46	120.82
1	4L	131	LYS	CG-CD-CE	6.33	125.85	111.30
1	51	166	ASP	CA-C-N	6.33	128.66	120.44
1	51	166	ASP	C-N-CA	6.33	128.66	120.44
1	5c	166	ASP	CA-CB-CG	-6.33	106.28	112.60
1	5L	211	LEU	N-CA-CB	6.33	119.18	110.01
1	5Z	221	VAL	N-CA-CB	6.33	119.85	111.25
1	6n	116	GLY	O-C-N	-6.33	116.11	122.18
1	6r	100	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	6w	167	ARG	NE-CZ-NH2	6.33	124.89	119.20
1	7i	180	GLU	N-CA-C	-6.33	105.56	113.28
1	7v	136	LEU	O-C-N	-6.33	115.42	122.12
1	7y	132	ARG	NH1-CZ-NH2	-6.33	111.08	119.30
1	7B	150	ILE	N-CA-C	6.33	118.96	111.05
1	8m	114	GLN	CA-C-O	-6.33	113.72	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8B	178	SER	N-CA-C	6.33	119.76	110.59
1	8H	185	MET	O-C-N	-6.33	115.41	122.12
1	8P	143	ARG	CA-C-O	6.33	127.21	120.70
1	8R	86	VAL	N-CA-CB	-6.33	103.63	110.53
1	94	115	ILE	CA-C-N	6.33	127.14	119.99
1	94	115	ILE	C-N-CA	6.33	127.14	119.99
1	9k	62	HIS	ND1-CE1-NE2	6.33	114.72	108.40
1	9t	86	VAL	N-CA-CB	6.33	118.58	110.99
1	9H	154	ARG	NE-CZ-NH1	6.33	127.83	121.50
1	9Q	102	SER	O-C-N	-6.33	115.42	122.12
1	10	86	VAL	N-CA-C	6.33	116.59	108.12
1	aa	185	MET	CA-C-N	6.33	129.93	120.31
1	aa	185	MET	C-N-CA	6.33	129.93	120.31
1	ad	12	HIS	N-CA-C	6.33	119.45	109.96
1	af	206	GLY	CA-C-N	6.33	126.70	119.93
1	af	206	GLY	C-N-CA	6.33	126.70	119.93
1	ah	129	ILE	CA-C-N	6.33	128.76	120.28
1	ah	129	ILE	C-N-CA	6.33	128.76	120.28
1	ak	130	TYR	CA-C-N	6.33	128.76	120.28
1	ak	130	TYR	C-N-CA	6.33	128.76	120.28
1	ap	6	LEU	O-C-N	-6.33	115.39	122.10
1	az	156	GLY	O-C-N	6.33	128.10	121.77
1	aP	67	GLN	CB-CA-C	-6.33	100.29	110.79
1	aW	3	VAL	CB-CA-C	6.33	120.01	110.90
1	b3	185	MET	CA-C-N	6.33	129.27	120.29
1	b3	185	MET	C-N-CA	6.33	129.27	120.29
1	1b	166	ASP	O-C-N	-6.33	115.42	122.12
1	cd	112	GLN	N-CA-C	6.33	118.98	111.33
1	1d	143	ARG	NE-CZ-NH2	-6.33	113.51	119.20
1	cB	54	THR	N-CA-C	6.33	118.17	111.28
1	1g	124	ILE	O-C-N	-6.33	116.07	121.57
1	cQ	210	THR	N-CA-C	6.33	118.95	110.35
1	d9	102	SER	N-CA-CB	-6.33	100.80	110.16
1	1j	72	THR	N-CA-CB	6.33	119.18	110.01
1	dE	119	THR	N-CA-CB	6.33	120.16	110.61
1	dL	18	ARG	NH1-CZ-NH2	-6.33	111.08	119.30
1	dS	97	ARG	N-CA-C	6.33	118.46	110.24
1	dZ	156	GLY	CA-C-N	6.33	127.75	119.84
1	dZ	156	GLY	C-N-CA	6.33	127.75	119.84
1	e8	162	ARG	NE-CZ-NH2	-6.33	113.51	119.20
1	eq	37	ILE	O-C-N	-6.33	115.58	120.07
1	eA	111	LEU	N-CA-C	6.33	118.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fe	211	LEU	CA-C-N	6.33	128.66	120.44
1	fe	211	LEU	C-N-CA	6.33	128.66	120.44
1	fI	40	PHE	N-CA-C	6.33	118.70	111.11
1	fP	98	GLU	N-CA-C	6.33	119.47	110.24
1	fW	40	PHE	CB-CA-C	-6.33	100.29	110.79
1	3	203	LYS	N-CA-C	6.33	118.17	111.28
1	F	184	TRP	CB-CG-CD2	6.33	135.66	126.80
1	M	162	ARG	NE-CZ-NH2	-6.33	113.51	119.20
1	4	11	VAL	N-CA-C	6.33	119.00	111.09
1	gN	162	ARG	O-C-N	-6.32	115.56	122.07
1	gP	193	ASN	CA-CB-CG	-6.32	106.28	112.60
1	h6	199	LYS	N-CA-C	6.32	121.80	111.37
1	h9	61	GLY	O-C-N	6.32	129.37	122.60
1	hy	120	HIS	CG-CD2-NE2	6.32	113.52	107.20
1	hy	191	VAL	CA-C-N	6.32	129.39	120.28
1	hy	191	VAL	C-N-CA	6.32	129.39	120.28
1	1M	18	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	i0	124	ILE	O-C-N	-6.32	117.39	121.37
1	ic	189	LEU	N-CA-C	6.32	118.17	111.28
1	1P	10	MET	N-CA-C	6.32	119.45	109.96
1	ip	167	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	ix	101	GLY	N-CA-C	6.32	120.29	112.64
1	iQ	96	MET	O-C-N	-6.32	115.11	122.95
1	iT	195	ASN	CA-CB-CG	6.32	118.92	112.60
1	iV	89	GLY	O-C-N	-6.32	115.45	121.77
1	1T	213	GLU	CA-C-O	-6.32	113.85	120.55
1	j3	81	ASP	O-C-N	-6.32	115.42	122.12
1	j4	228	ALA	N-CA-CB	-6.32	100.80	110.92
1	j9	16	SER	CA-C-N	6.32	125.74	118.85
1	j9	16	SER	C-N-CA	6.32	125.74	118.85
1	jD	209	ALA	CB-CA-C	6.32	119.60	109.61
1	jQ	209	ALA	N-CA-C	6.32	118.46	110.24
1	kn	33	SER	CA-C-N	6.32	126.01	119.56
1	kn	33	SER	C-N-CA	6.32	126.01	119.56
1	ku	182	LYS	CA-C-N	6.32	128.66	120.44
1	ku	182	LYS	C-N-CA	6.32	128.66	120.44
1	kz	32	PHE	CA-CB-CG	-6.32	107.48	113.80
1	kI	183	ASN	CA-CB-CG	-6.32	106.28	112.60
1	l4	150	ILE	CA-CB-CG2	-6.32	99.75	110.50
1	27	53	ASN	CA-CB-CG	-6.32	106.28	112.60
1	lj	153	ILE	CA-CB-CG1	6.32	121.15	110.40
1	lm	155	GLN	OE1-CD-NE2	-6.32	116.28	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lE	39	MET	N-CA-C	6.32	117.84	111.07
1	lH	12	HIS	N-CA-C	6.32	119.40	110.23
1	lN	176	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	2e	175	GLU	N-CA-C	6.32	118.95	110.35
1	2j	164	TYR	CB-CG-CD1	-6.32	111.31	120.80
1	2y	201	ILE	CA-C-N	6.32	129.08	120.54
1	2y	201	ILE	C-N-CA	6.32	129.08	120.54
1	2G	26	VAL	N-CA-CB	6.32	117.95	110.55
1	2J	163	ASP	CA-C-O	6.32	127.12	120.42
1	2Y	159	GLU	CA-C-N	6.32	127.74	119.84
1	2Y	159	GLU	C-N-CA	6.32	127.74	119.84
1	34	192	GLN	N-CA-C	6.32	120.25	112.54
1	35	193	ASN	CA-CB-CG	-6.32	106.28	112.60
1	38	57	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	3h	40	PHE	CA-CB-CG	-6.32	107.48	113.80
1	3z	191	VAL	O-C-N	-6.32	115.74	121.87
1	3J	12	HIS	CA-CB-CG	6.32	120.12	113.80
1	3M	177	ALA	CA-C-N	6.32	129.82	120.90
1	3M	177	ALA	C-N-CA	6.32	129.82	120.90
1	3T	23	TRP	CA-C-N	6.32	129.12	120.46
1	3T	23	TRP	C-N-CA	6.32	129.12	120.46
1	4k	37	ILE	N-CA-CB	6.32	115.38	110.45
1	5r	84	HIS	CB-CG-CD2	-6.32	122.98	131.20
1	5x	66	MET	O-C-N	-6.32	115.56	122.07
1	5S	40	PHE	CA-C-N	6.32	128.66	120.44
1	5S	40	PHE	C-N-CA	6.32	128.66	120.44
1	67	68	MET	N-CA-C	6.32	117.84	111.07
1	6f	19	THR	CA-C-O	6.32	127.26	120.24
1	6j	35	GLU	CA-C-N	6.32	129.40	120.42
1	6j	35	GLU	C-N-CA	6.32	129.40	120.42
1	6l	19	THR	OG1-CB-CG2	-6.32	96.65	109.30
1	6m	23	TRP	N-CA-C	6.32	118.17	111.28
1	6R	1	PRO	CA-C-N	6.32	131.26	123.10
1	6R	1	PRO	C-N-CA	6.32	131.26	123.10
1	6Z	226	HIS	CE1-NE2-CD2	-6.32	102.68	109.00
1	74	66	MET	N-CA-C	6.32	118.17	111.28
1	7b	215	MET	CA-C-N	6.32	129.27	120.29
1	7b	215	MET	C-N-CA	6.32	129.27	120.29
1	7d	87	HIS	CG-CD2-NE2	6.32	113.52	107.20
1	7k	63	GLN	CG-CD-NE2	6.32	125.88	116.40
1	7v	153	ILE	CA-C-N	6.32	132.72	122.29
1	7v	153	ILE	C-N-CA	6.32	132.72	122.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7E	30	LYS	O-C-N	6.32	128.58	122.07
1	7H	121	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	8h	13	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	8G	64	ALA	N-CA-C	6.32	118.25	111.36
1	8Y	70	LYS	CA-C-N	6.32	128.75	120.28
1	8Y	70	LYS	C-N-CA	6.32	128.75	120.28
1	9d	124	ILE	O-C-N	-6.32	116.53	121.46
1	9s	43	LEU	CA-C-O	6.32	127.26	120.24
1	9D	157	PRO	N-CA-CB	6.32	109.89	103.25
1	9K	118	MET	N-CA-C	6.32	119.15	111.82
1	9M	216	THR	CA-C-O	6.32	126.75	119.35
1	Y	119	THR	N-CA-C	-6.32	105.20	113.17
1	a6	127	GLY	CA-C-N	6.32	128.66	120.44
1	a6	127	GLY	C-N-CA	6.32	128.66	120.44
1	aI	143	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	aN	20	LEU	CA-C-O	-6.32	113.85	120.55
1	bb	127	GLY	CA-C-N	6.32	129.04	120.38
1	bb	127	GLY	C-N-CA	6.32	129.04	120.38
1	bd	39	MET	CG-SD-CE	-6.32	86.99	100.90
1	bB	158	LYS	O-C-N	-6.32	115.34	122.23
1	bN	193	ASN	CA-C-N	6.32	130.09	121.05
1	bN	193	ASN	C-N-CA	6.32	130.09	121.05
1	bS	153	ILE	O-C-N	-6.32	115.78	122.67
1	bV	180	GLU	N-CA-C	6.32	118.25	111.36
1	bW	164	TYR	CA-C-N	6.32	129.12	120.46
1	bW	164	TYR	C-N-CA	6.32	129.12	120.46
1	c2	28	GLU	O-C-N	-6.32	115.26	122.09
1	c3	223	GLY	O-C-N	6.32	128.09	121.77
1	c8	206	GLY	O-C-N	-6.32	115.45	121.77
1	cn	81	ASP	N-CA-C	6.32	118.98	111.71
1	co	146	SER	CA-C-O	-6.32	114.59	119.71
1	cv	42	ALA	N-CA-C	6.32	118.17	111.28
1	cL	165	VAL	N-CA-CB	6.32	117.95	110.55
1	cN	221	VAL	N-CA-C	6.32	117.58	109.30
1	cW	219	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	dc	133	TRP	CA-C-N	6.32	129.12	120.46
1	dc	133	TRP	C-N-CA	6.32	129.12	120.46
1	e8	3	VAL	N-CA-CB	6.32	119.29	110.56
1	eg	202	LEU	O-C-N	-6.32	115.42	122.12
1	ez	25	LYS	N-CA-CB	6.32	120.08	110.28
1	eB	124	ILE	N-CA-C	-6.32	100.83	107.60
1	fh	18	ARG	NE-CZ-NH2	6.32	124.89	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fC	170	LYS	N-CA-CB	6.32	119.24	110.07
1	fG	229	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	fO	230	VAL	CB-CA-C	6.32	120.16	110.55
1	a	80	TRP	CA-C-N	6.32	129.07	120.54
1	a	80	TRP	C-N-CA	6.32	129.07	120.54
1	1	172	LEU	O-C-N	-6.32	115.51	122.09
1	m	162	ARG	N-CA-C	6.32	118.70	111.11
1	O	37	ILE	N-CA-CB	6.32	115.38	110.45
1	go	187	GLU	N-CA-C	6.32	118.25	111.36
1	gL	28	GLU	N-CA-C	6.32	117.97	111.14
1	gU	101	GLY	CA-C-N	6.32	129.04	120.38
1	gU	101	GLY	C-N-CA	6.32	129.04	120.38
1	h3	16	SER	CA-C-O	-6.32	114.48	119.66
1	hy	167	ARG	N-CA-C	6.32	118.17	111.28
1	hK	191	VAL	CA-C-N	6.32	128.75	120.28
1	hK	191	VAL	C-N-CA	6.32	128.75	120.28
1	if	74	ASN	CA-C-N	6.32	128.66	120.44
1	if	74	ASN	C-N-CA	6.32	128.66	120.44
1	jf	78	ALA	N-CA-C	6.32	118.17	111.28
1	jw	16	SER	CA-C-N	6.32	127.74	119.84
1	jw	16	SER	C-N-CA	6.32	127.74	119.84
1	jP	176	GLN	O-C-N	-6.32	115.00	122.96
1	k4	126	VAL	N-CA-C	6.32	117.07	110.62
1	kb	97	ARG	O-C-N	-6.32	115.03	122.81
1	kD	117	TRP	CB-CG-CD1	-6.32	117.42	126.90
1	lm	229	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	2i	143	ARG	NH1-CZ-NH2	6.32	127.52	119.30
1	2m	50	GLN	CB-CA-C	-6.32	100.30	110.79
1	2H	18	ARG	CA-C-N	6.32	128.75	120.28
1	2H	18	ARG	C-N-CA	6.32	128.75	120.28
1	3k	224	PRO	N-CA-C	6.32	121.14	111.34
1	3L	163	ASP	CA-CB-CG	-6.32	106.28	112.60
1	3P	110	THR	N-CA-C	-6.32	100.62	110.42
1	3S	59	VAL	CB-CA-C	-6.32	103.50	112.22
1	4s	128	GLU	N-CA-C	6.32	118.17	111.28
1	5Z	96	MET	N-CA-C	6.32	119.40	110.23
1	62	47	ALA	O-C-N	-6.32	116.01	123.22
1	6c	25	LYS	N-CA-C	6.32	119.15	111.82
1	6s	19	THR	CA-C-N	6.32	128.75	120.28
1	6s	19	THR	C-N-CA	6.32	128.75	120.28
1	6t	12	HIS	CE1-NE2-CD2	-6.32	102.68	109.00
1	70	73	ILE	CA-CB-CG2	6.32	121.25	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7k	21	ASN	OD1-CG-ND2	6.32	128.92	122.60
1	7l	198	CYS	O-C-N	6.32	129.36	122.15
1	7n	175	GLU	N-CA-C	-6.32	105.60	113.38
1	85	219	GLN	O-C-N	-6.32	115.18	122.89
1	8l	86	VAL	N-CA-C	6.32	117.90	108.23
1	8O	64	ALA	N-CA-C	6.32	119.15	111.82
1	8R	115	ILE	N-CA-C	6.32	117.07	110.62
1	9b	48	THR	O-C-N	-6.32	114.45	121.53
1	a6	213	GLU	O-C-N	-6.32	115.42	122.12
1	ay	89	GLY	O-C-N	-6.32	115.45	121.77
1	aF	188	THR	CA-C-N	6.32	128.75	120.28
1	aF	188	THR	C-N-CA	6.32	128.75	120.28
1	aN	155	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	bN	139	ASN	CA-C-O	-6.32	113.85	120.55
1	bO	152	ASP	CA-CB-CG	6.32	118.92	112.60
1	c8	128	GLU	N-CA-C	6.32	118.17	111.28
1	cv	25	LYS	N-CA-C	6.32	118.17	111.28
1	cI	215	MET	N-CA-CB	6.32	119.41	110.12
1	cS	20	LEU	CA-C-N	6.32	128.75	120.28
1	cS	20	LEU	C-N-CA	6.32	128.75	120.28
1	cS	38	PRO	CB-CA-C	6.32	121.34	112.11
1	dh	18	ARG	CA-C-O	6.32	127.25	120.55
1	dM	80	TRP	CD2-CE2-CZ2	-6.32	116.08	122.40
1	dP	172	LEU	CA-C-N	6.32	129.92	120.31
1	dP	172	LEU	C-N-CA	6.32	129.92	120.31
1	dY	57	ASN	CA-CB-CG	-6.32	106.28	112.60
1	eE	171	THR	CA-CB-OG1	6.32	119.08	109.60
1	eK	116	GLY	CA-C-N	6.32	128.75	120.28
1	eK	116	GLY	C-N-CA	6.32	128.75	120.28
1	eR	198	CYS	N-CA-C	6.32	117.83	111.07
1	fl	99	PRO	CB-CA-C	6.32	118.51	111.11
1	b	48	THR	N-CA-C	-6.32	102.12	110.40
1	h	5	ASN	N-CA-C	-6.32	99.72	109.52
1	n	103	ASP	N-CA-C	6.32	118.17	111.28
1	n	120	HIS	CA-CB-CG	6.32	120.12	113.80
1	s	105	ALA	CA-C-N	6.32	132.39	121.07
1	s	105	ALA	C-N-CA	6.32	132.39	121.07
1	C	54	THR	CA-C-O	6.32	127.21	120.70
1	R	201	ILE	N-CA-C	6.32	117.07	110.62
1	gm	222	GLY	CA-C-N	6.32	131.79	121.87
1	gm	222	GLY	C-N-CA	6.32	131.79	121.87
1	gr	155	GLN	CG-CD-OE1	6.32	133.44	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gN	133	TRP	CB-CG-CD1	6.32	136.38	126.90
1	gS	38	PRO	N-CA-CB	6.32	110.52	103.44
1	1I	212	GLU	O-C-N	-6.32	115.42	122.12
1	hy	82	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	is	95	GLN	CA-C-N	6.32	131.44	122.72
1	is	95	GLN	C-N-CA	6.32	131.44	122.72
1	iL	108	THR	CA-C-O	6.32	126.95	119.56
1	iR	221	VAL	N-CA-C	6.32	117.73	109.58
1	j3	138	LEU	N-CA-C	6.32	118.17	111.28
1	j5	226	HIS	N-CA-CB	6.32	121.17	110.49
1	j6	52	LEU	CA-C-N	6.32	128.75	120.28
1	j6	52	LEU	C-N-CA	6.32	128.75	120.28
1	j9	187	GLU	CA-C-O	6.32	127.12	120.42
1	jb	203	LYS	N-CA-C	6.32	118.17	111.28
1	jd	161	PHE	N-CA-C	6.32	119.15	111.82
1	jg	105	ALA	N-CA-C	6.32	118.98	111.33
1	jo	154	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	jx	111	LEU	N-CA-C	6.32	118.98	111.33
1	k4	45	GLU	O-C-N	-6.32	115.11	122.95
1	kB	151	LEU	N-CA-C	-6.32	105.43	113.01
1	kG	48	THR	N-CA-CB	6.32	118.50	109.78
1	kM	167	ARG	NE-CZ-NH2	6.32	124.89	119.20
1	kR	76	GLU	CA-C-N	6.32	128.99	120.65
1	kR	76	GLU	C-N-CA	6.32	128.99	120.65
1	lb	193	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	lk	5	ASN	CA-C-O	6.32	127.19	120.36
1	lu	73	ILE	O-C-N	-6.32	114.66	121.80
1	2p	104	ILE	CA-C-N	6.32	129.92	120.31
1	2p	104	ILE	C-N-CA	6.32	129.92	120.31
1	2u	54	THR	O-C-N	-6.32	115.42	122.12
1	2v	122	PRO	CA-C-N	6.32	126.27	119.76
1	2v	122	PRO	C-N-CA	6.32	126.27	119.76
1	2P	36	VAL	CA-C-N	6.32	124.22	120.24
1	2P	36	VAL	C-N-CA	6.32	124.22	120.24
1	2Y	133	TRP	CA-C-N	6.32	128.52	120.56
1	2Y	133	TRP	C-N-CA	6.32	128.52	120.56
1	31	55	MET	CA-C-N	6.32	128.66	120.44
1	31	55	MET	C-N-CA	6.32	128.66	120.44
1	31	86	VAL	O-C-N	-6.32	115.80	122.81
1	36	199	LYS	CB-CA-C	-6.32	99.94	110.68
1	3f	76	GLU	N-CA-C	6.32	119.15	111.82
1	3n	167	ARG	NE-CZ-NH2	6.32	124.89	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3B	217	ALA	N-CA-C	6.32	119.40	110.23
1	3Y	167	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	4k	91	ILE	O-C-N	-6.32	116.03	123.05
1	4q	54	THR	CA-C-N	6.32	131.24	121.19
1	4q	54	THR	C-N-CA	6.32	131.24	121.19
1	4L	40	PHE	CA-C-O	6.32	127.25	120.55
1	5q	226	HIS	CA-CB-CG	-6.32	107.48	113.80
1	5D	16	SER	CA-C-N	6.32	127.74	119.84
1	5D	16	SER	C-N-CA	6.32	127.74	119.84
1	5E	83	LEU	CA-C-O	6.32	126.67	119.27
1	5M	205	LEU	N-CA-CB	-6.32	100.83	110.12
1	60	89	GLY	CA-C-N	6.32	126.84	120.14
1	60	89	GLY	C-N-CA	6.32	126.84	120.14
1	6b	77	ALA	CA-C-N	6.32	128.75	120.28
1	6b	77	ALA	C-N-CA	6.32	128.75	120.28
1	6u	51	ASP	CA-CB-CG	6.32	118.92	112.60
1	6P	69	LEU	CA-C-N	6.32	128.75	120.28
1	6P	69	LEU	C-N-CA	6.32	128.75	120.28
1	7m	85	PRO	CA-C-O	-6.32	114.47	121.23
1	83	167	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	83	182	LYS	O-C-N	-6.32	115.42	122.12
1	8a	191	VAL	CB-CA-C	6.32	119.91	111.94
1	8b	226	HIS	CG-CD2-NE2	6.32	113.52	107.20
1	8m	164	TYR	N-CA-CB	-6.32	100.52	109.94
1	8E	126	VAL	CA-C-N	6.32	126.83	119.94
1	8E	126	VAL	C-N-CA	6.32	126.83	119.94
1	8E	228	ALA	O-C-N	-6.32	115.65	123.04
1	9b	227	LYS	CA-C-N	6.32	133.61	121.54
1	9b	227	LYS	C-N-CA	6.32	133.61	121.54
1	9c	109	SER	N-CA-CB	6.32	120.47	110.55
1	9v	195	ASN	CA-C-O	-6.32	113.48	119.80
1	a8	80	TRP	CB-CG-CD1	6.32	136.38	126.90
1	at	188	THR	CA-CB-CG2	-6.32	99.75	110.50
1	aw	17	PRO	CA-C-N	6.32	128.75	120.28
1	aw	17	PRO	C-N-CA	6.32	128.75	120.28
1	aH	117	TRP	CA-C-N	6.32	128.75	120.28
1	aH	117	TRP	C-N-CA	6.32	128.75	120.28
1	aI	112	GLN	CA-C-O	6.32	127.16	119.38
1	aV	107	THR	N-CA-CB	6.32	120.08	110.28
1	b0	162	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	bc	131	LYS	N-CA-C	6.32	118.17	111.28
1	18	222	GLY	CA-C-N	6.32	131.79	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18	222	GLY	C-N-CA	6.32	131.79	121.87
1	bL	91	ILE	O-C-N	-6.32	116.54	123.18
1	bL	195	ASN	CB-CA-C	6.32	119.45	109.27
1	bW	213	GLU	CA-C-N	6.32	129.92	120.31
1	bW	213	GLU	C-N-CA	6.32	129.92	120.31
1	c5	154	ARG	O-C-N	-6.32	115.64	123.04
1	1c	52	LEU	N-CA-C	6.32	118.98	111.33
1	ce	50	GLN	N-CA-C	6.32	117.83	111.07
1	cg	172	LEU	CA-C-N	6.32	129.04	120.38
1	cg	172	LEU	C-N-CA	6.32	129.04	120.38
1	cl	3	VAL	O-C-N	-6.32	116.03	123.05
1	cE	160	PRO	N-CA-CB	6.32	108.94	103.31
1	dj	140	LYS	CA-C-N	6.32	128.60	120.70
1	dj	140	LYS	C-N-CA	6.32	128.60	120.70
1	1k	170	LYS	CA-C-O	6.32	127.25	120.55
1	dA	51	ASP	CA-C-O	6.32	127.25	120.55
1	dP	143	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	e2	35	GLU	CA-C-N	6.32	130.46	120.47
1	e2	35	GLU	C-N-CA	6.32	130.46	120.47
1	ec	50	GLN	CA-C-O	-6.32	114.18	120.82
1	ee	100	ARG	O-C-N	-6.32	115.58	122.79
1	1t	181	VAL	CA-C-O	-6.32	114.47	121.17
1	eY	29	GLU	N-CA-C	6.32	117.83	111.07
1	fq	98	GLU	CA-C-O	-6.32	114.64	119.32
1	fx	67	GLN	N-CA-C	6.32	118.17	111.28
1	1	209	ALA	O-C-N	-6.32	114.73	122.82
1	go	1	PRO	CA-C-N	6.32	131.42	123.14
1	go	1	PRO	C-N-CA	6.32	131.42	123.14
1	gA	86	VAL	CA-C-O	6.32	128.60	120.95
1	1L	49	PRO	CA-C-N	6.32	128.75	120.28
1	1L	49	PRO	C-N-CA	6.32	128.75	120.28
1	1N	16	SER	CA-C-N	6.32	125.94	119.56
1	1N	16	SER	C-N-CA	6.32	125.94	119.56
1	1N	33	SER	CA-C-N	6.32	126.44	119.87
1	1N	33	SER	C-N-CA	6.32	126.44	119.87
1	in	62	HIS	CB-CG-ND1	-6.32	113.22	122.70
1	kD	45	GLU	N-CA-C	6.32	119.78	110.30
1	kF	90	PRO	CA-C-O	-6.32	114.43	121.32
1	kG	204	ALA	O-C-N	-6.32	114.50	122.27
1	2I	41	SER	CA-C-N	6.32	129.04	120.38
1	2I	41	SER	C-N-CA	6.32	129.04	120.38
1	38	192	GLN	N-CA-C	6.32	118.98	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	112	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	3W	13	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	3X	183	ASN	N-CA-C	6.32	118.98	111.33
1	4e	80	TRP	CA-C-O	-6.32	113.85	120.55
1	4N	129	ILE	N-CA-CB	6.32	117.94	110.55
1	5b	132	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	6u	72	THR	CA-CB-CG2	6.32	121.24	110.50
1	6S	33	SER	O-C-N	-6.32	115.30	121.56
1	7m	221	VAL	CA-CB-CG2	-6.32	99.66	110.40
1	7x	150	ILE	CB-CA-C	6.32	120.32	112.04
1	7Q	121	ASN	CB-CG-OD1	6.32	133.44	120.80
1	9Y	44	SER	O-C-N	-6.32	114.73	122.25
1	au	84	HIS	N-CA-C	6.32	122.77	108.74
1	aM	73	ILE	N-CA-C	6.32	116.49	110.42
1	aS	205	LEU	CA-C-O	6.32	127.25	119.79
1	aS	228	ALA	N-CA-C	6.32	119.15	110.24
1	b9	140	LYS	O-C-N	-6.32	115.56	122.07
1	c0	141	ILE	N-CA-C	6.32	116.43	110.30
1	c5	142	VAL	N-CA-CB	6.32	119.13	110.54
1	co	172	LEU	N-CA-C	6.32	118.17	111.28
1	cu	78	ALA	CA-C-N	6.32	128.75	120.28
1	cu	78	ALA	C-N-CA	6.32	128.75	120.28
1	cX	75	GLU	N-CA-C	6.32	117.96	111.14
1	dS	31	ALA	O-C-N	-6.32	114.19	122.59
1	em	210	THR	CA-C-N	6.32	128.66	120.44
1	em	210	THR	C-N-CA	6.32	128.66	120.44
1	eZ	50	GLN	N-CA-C	6.32	117.83	111.07
1	fS	206	GLY	CA-C-N	6.32	126.86	120.04
1	fS	206	GLY	C-N-CA	6.32	126.86	120.04
1	fY	117	TRP	CE2-CD2-CE3	6.32	125.12	118.80
1	g6	165	VAL	CA-C-N	6.32	129.07	120.54
1	g6	165	VAL	C-N-CA	6.32	129.07	120.54
1	P	184	TRP	N-CA-C	-6.32	104.39	111.28
1	gE	45	GLU	N-CA-C	6.32	118.97	111.33
1	gG	84	HIS	CA-C-N	6.32	126.33	119.89
1	gG	84	HIS	C-N-CA	6.32	126.33	119.89
1	gG	204	ALA	O-C-N	6.32	129.35	122.15
1	gK	72	THR	O-C-N	-6.32	115.27	122.09
1	gP	116	GLY	O-C-N	-6.32	116.06	122.19
1	gQ	146	SER	N-CA-C	6.32	116.87	109.60
1	gR	58	THR	CA-C-O	6.32	127.24	119.97
1	h2	218	CYS	O-C-N	-6.32	115.53	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hq	156	GLY	O-C-N	-6.32	115.45	121.77
1	hz	219	GLN	N-CA-C	6.32	118.88	109.59
1	hU	71	GLU	CA-C-O	6.32	127.12	120.42
1	hX	191	VAL	CA-C-O	6.32	126.55	119.92
1	i3	73	ILE	CA-C-N	6.32	129.26	120.29
1	i3	73	ILE	C-N-CA	6.32	129.26	120.29
1	i7	40	PHE	N-CA-C	6.32	117.83	111.07
1	io	40	PHE	CA-CB-CG	-6.32	107.48	113.80
1	iC	107	THR	CA-C-O	-6.32	113.84	120.92
1	iG	47	ALA	N-CA-C	6.32	119.51	110.10
1	iK	7	GLN	O-C-N	-6.32	116.86	123.56
1	iL	95	GLN	O-C-N	-6.32	115.81	123.27
1	iP	27	VAL	CB-CA-C	-6.32	103.72	111.87
1	k7	105	ALA	CA-C-O	6.32	127.08	119.43
1	k8	86	VAL	CA-CB-CG2	6.32	121.14	110.40
1	k8	224	PRO	CA-C-N	6.32	133.79	121.41
1	k8	224	PRO	C-N-CA	6.32	133.79	121.41
1	20	39	MET	CA-C-N	6.32	129.26	120.29
1	20	39	MET	C-N-CA	6.32	129.26	120.29
1	ki	143	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	kn	32	PHE	CA-C-N	6.32	130.26	120.60
1	kn	32	PHE	C-N-CA	6.32	130.26	120.60
1	l5	72	THR	CA-C-N	6.32	128.52	120.56
1	l5	72	THR	C-N-CA	6.32	128.52	120.56
1	lP	166	ASP	O-C-N	-6.32	115.42	122.12
1	30	36	VAL	CA-CB-CG1	6.32	121.14	110.40
1	32	145	TYR	CB-CG-CD1	-6.32	111.32	120.80
1	3n	229	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	3F	187	GLU	CA-C-O	-6.32	111.72	119.18
1	3I	156	GLY	CA-C-N	6.32	125.73	118.85
1	3I	156	GLY	C-N-CA	6.32	125.73	118.85
1	3I	168	PHE	CA-CB-CG	6.32	120.12	113.80
1	3W	69	LEU	N-CA-C	6.32	118.17	111.28
1	41	184	TRP	CA-C-N	6.32	129.03	120.38
1	41	184	TRP	C-N-CA	6.32	129.03	120.38
1	43	50	GLN	CA-C-N	6.32	128.65	120.44
1	43	50	GLN	C-N-CA	6.32	128.65	120.44
1	4j	192	GLN	CA-C-O	-6.32	113.85	120.55
1	4x	230	VAL	CA-CB-CG1	6.32	121.14	110.40
1	4J	166	ASP	O-C-N	-6.32	115.42	122.12
1	5h	198	CYS	CA-C-N	6.32	129.60	120.38
1	5h	198	CYS	C-N-CA	6.32	129.60	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5l	223	GLY	CA-C-N	6.32	126.34	119.90
1	5l	223	GLY	C-N-CA	6.32	126.34	119.90
1	5m	164	TYR	CB-CA-C	6.32	121.28	110.79
1	5L	226	HIS	CB-CG-CD2	-6.32	122.99	131.20
1	5V	78	ALA	N-CA-CB	-6.32	100.81	110.16
1	5V	192	GLN	N-CA-C	6.32	121.79	111.37
1	6R	39	MET	CA-C-O	6.32	127.28	120.20
1	6Z	48	THR	CA-C-N	6.32	127.74	119.84
1	6Z	48	THR	C-N-CA	6.32	127.74	119.84
1	7l	76	GLU	N-CA-C	6.32	119.15	111.82
1	7q	2	ILE	O-C-N	6.32	129.93	122.66
1	7t	108	THR	CB-CA-C	-6.32	98.94	109.55
1	7x	87	HIS	ND1-CE1-NE2	6.32	114.72	108.40
1	7z	154	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	7F	84	HIS	CA-C-N	6.32	127.74	119.84
1	7F	84	HIS	C-N-CA	6.32	127.74	119.84
1	82	204	ALA	CA-C-O	-6.32	114.19	120.70
1	8v	65	ALA	CA-C-N	6.32	129.26	120.29
1	8v	65	ALA	C-N-CA	6.32	129.26	120.29
1	8P	69	LEU	N-CA-C	-6.32	104.39	111.28
1	92	143	ARG	N-CA-C	6.32	117.83	111.07
1	93	200	THR	N-CA-CB	6.32	119.17	110.01
1	9o	100	ARG	O-C-N	-6.32	114.88	122.65
1	9C	62	HIS	N-CA-C	6.32	120.11	111.39
1	9L	159	GLU	CA-C-N	6.32	126.29	119.78
1	9L	159	GLU	C-N-CA	6.32	126.29	119.78
1	Y	179	GLN	N-CA-C	6.32	117.83	111.07
1	a4	177	ALA	N-CA-C	6.32	124.25	110.80
1	ae	127	GLY	CA-C-N	6.32	129.07	120.54
1	ae	127	GLY	C-N-CA	6.32	129.07	120.54
1	ae	148	THR	N-CA-C	6.32	119.52	110.10
1	ai	79	GLU	N-CA-C	6.32	118.17	111.28
1	al	25	LYS	O-C-N	-6.32	113.80	122.46
1	ar	176	GLN	O-C-N	-6.32	114.59	122.24
1	14	68	MET	CA-C-N	6.32	128.74	120.28
1	14	68	MET	C-N-CA	6.32	128.74	120.28
1	bi	18	ARG	N-CA-C	-6.32	104.47	111.36
1	by	62	HIS	N-CA-C	6.32	120.11	111.39
1	bC	87	HIS	CA-CB-CG	6.32	120.12	113.80
1	bX	201	ILE	O-C-N	-6.32	115.74	121.87
1	c8	154	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	cp	126	VAL	N-CA-C	6.32	117.06	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cD	99	PRO	CB-CA-C	6.32	117.15	111.40
1	cF	89	GLY	O-C-N	-6.32	115.45	121.77
1	cJ	137	GLY	CA-C-N	6.32	128.75	120.28
1	cJ	137	GLY	C-N-CA	6.32	128.75	120.28
1	1g	53	ASN	OD1-CG-ND2	6.32	128.92	122.60
1	d7	28	GLU	N-CA-C	6.32	118.17	111.28
1	ds	12	HIS	O-C-N	-6.32	115.17	123.13
1	dI	44	SER	N-CA-CB	6.32	119.84	110.49
1	dP	48	THR	N-CA-CB	6.32	117.07	109.74
1	ee	40	PHE	CA-C-N	6.32	129.07	120.54
1	ee	40	PHE	C-N-CA	6.32	129.07	120.54
1	ee	104	ILE	N-CA-CB	6.32	117.94	110.55
1	eo	141	ILE	CA-C-O	6.32	127.47	120.71
1	es	213	GLU	N-CA-C	6.32	118.17	111.28
1	ev	11	VAL	N-CA-C	6.32	118.90	109.17
1	eO	114	GLN	CA-C-N	6.32	128.52	120.56
1	eO	114	GLN	C-N-CA	6.32	128.52	120.56
1	fj	214	MET	CG-SD-CE	-6.32	87.00	100.90
1	fT	12	HIS	N-CA-C	6.32	120.12	109.76
1	b	141	ILE	CA-C-N	6.32	129.44	120.53
1	b	141	ILE	C-N-CA	6.32	129.44	120.53
1	g	50	GLN	CA-C-O	6.32	127.25	120.55
1	n	182	LYS	CA-C-N	6.32	129.26	120.29
1	n	182	LYS	C-N-CA	6.32	129.26	120.29
1	x	129	ILE	CA-C-N	6.32	129.26	120.29
1	x	129	ILE	C-N-CA	6.32	129.26	120.29
1	y	100	ARG	CA-C-N	6.32	127.13	119.99
1	y	100	ARG	C-N-CA	6.32	127.13	119.99
1	B	120	HIS	CA-CB-CG	6.32	120.12	113.80
1	4	112	GLN	CG-CD-NE2	6.32	125.88	116.40
1	T	182	LYS	CA-C-O	6.32	127.21	120.70
1	6	154	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	gh	73	ILE	CA-C-O	6.32	127.62	121.05
1	gL	119	THR	CA-C-N	6.32	132.46	120.97
1	gL	119	THR	C-N-CA	6.32	132.46	120.97
1	1F	56	LEU	N-CA-C	6.32	119.15	111.82
1	gO	134	ILE	CA-C-N	6.32	129.39	120.42
1	gO	134	ILE	C-N-CA	6.32	129.39	120.42
1	gO	178	SER	CA-C-O	6.32	128.24	121.55
1	gS	97	ARG	CA-C-O	6.32	128.73	121.47
1	ho	162	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	hv	8	GLY	CA-C-N	6.32	129.68	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hv	8	GLY	C-N-CA	6.32	129.68	120.71
1	1K	181	VAL	CA-C-N	6.32	128.74	120.28
1	1K	181	VAL	C-N-CA	6.32	128.74	120.28
1	hG	101	GLY	CA-C-O	6.32	127.25	120.75
1	hQ	171	THR	O-C-N	-6.32	115.56	122.07
1	i3	32	PHE	O-C-N	-6.32	113.74	122.20
1	i4	46	GLY	CA-C-N	6.32	131.09	122.19
1	i4	46	GLY	C-N-CA	6.32	131.09	122.19
1	ia	167	ARG	O-C-N	-6.32	115.56	122.07
1	iJ	33	SER	CB-CA-C	-6.32	100.89	109.42
1	iJ	66	MET	N-CA-C	6.32	118.24	111.36
1	iT	133	TRP	N-CA-C	6.32	118.16	111.28
1	1T	62	HIS	ND1-CE1-NE2	6.32	114.72	108.40
1	j2	155	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	j2	178	SER	N-CA-C	6.32	119.39	110.23
1	j6	173	ARG	NE-CZ-NH2	6.32	124.88	119.20
1	jj	135	ILE	CB-CA-C	6.32	120.05	111.97
1	1V	37	ILE	O-C-N	-6.32	113.90	121.10
1	jo	110	THR	CA-C-N	6.32	129.03	120.38
1	jo	110	THR	C-N-CA	6.32	129.03	120.38
1	js	208	ALA	CA-C-O	6.32	126.69	119.18
1	kx	13	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	kK	195	ASN	O-C-N	-6.32	114.80	121.30
1	lq	174	ALA	CA-C-N	6.32	129.72	120.82
1	lq	174	ALA	C-N-CA	6.32	129.72	120.82
1	lr	36	VAL	CA-CB-CG2	6.32	121.14	110.40
1	lw	229	ARG	NE-CZ-NH1	6.32	127.82	121.50
1	lB	7	GLN	CA-C-N	6.32	128.09	120.13
1	lB	7	GLN	C-N-CA	6.32	128.09	120.13
1	lO	126	VAL	O-C-N	-6.32	115.62	121.94
1	2f	154	ARG	N-CA-CB	6.32	119.00	109.34
1	2k	7	GLN	OE1-CD-NE2	-6.32	116.28	122.60
1	2J	120	HIS	CA-CB-CG	6.32	120.11	113.80
1	2R	12	HIS	CE1-NE2-CD2	-6.32	102.69	109.00
1	3o	112	GLN	CA-C-N	6.32	128.65	120.44
1	3o	112	GLN	C-N-CA	6.32	128.65	120.44
1	3V	190	LEU	N-CA-C	6.32	118.17	111.28
1	40	120	HIS	N-CA-CB	6.32	118.88	110.29
1	4g	118	MET	N-CA-C	6.32	118.97	111.71
1	4v	121	ASN	CA-CB-CG	-6.32	106.28	112.60
1	4F	51	ASP	CA-C-N	6.32	128.65	120.44
1	4F	51	ASP	C-N-CA	6.32	128.65	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Q	203	LYS	CA-C-O	6.32	126.74	119.35
1	4Z	181	VAL	CA-C-O	6.32	127.55	120.85
1	5i	20	LEU	O-C-N	6.32	128.91	122.09
1	5t	176	GLN	CA-C-N	6.32	129.80	120.90
1	5t	176	GLN	C-N-CA	6.32	129.80	120.90
1	5x	179	GLN	N-CA-C	6.32	118.97	111.33
1	62	211	LEU	CA-C-N	6.32	130.29	120.82
1	62	211	LEU	C-N-CA	6.32	130.29	120.82
1	68	217	ALA	CA-C-N	6.32	133.60	121.54
1	68	217	ALA	C-N-CA	6.32	133.60	121.54
1	6b	145	TYR	O-C-N	-6.32	115.41	122.86
1	6q	138	LEU	O-C-N	-6.32	115.43	122.12
1	6t	87	HIS	CE1-NE2-CD2	-6.32	102.69	109.00
1	6z	204	ALA	N-CA-C	6.32	119.15	111.82
1	6D	193	ASN	CA-CB-CG	-6.32	106.28	112.60
1	6W	5	ASN	N-CA-CB	6.32	119.17	110.01
1	7a	198	CYS	CA-C-N	6.32	128.74	120.28
1	7a	198	CYS	C-N-CA	6.32	128.74	120.28
1	7m	55	MET	N-CA-C	6.32	118.69	111.11
1	7t	62	HIS	O-C-N	-6.32	114.13	122.47
1	81	121	ASN	N-CA-C	-6.32	98.60	109.15
1	9r	73	ILE	N-CA-C	-6.32	104.34	110.72
1	9t	171	THR	N-CA-C	6.32	118.24	111.36
1	9A	74	ASN	CA-CB-CG	-6.32	106.28	112.60
1	9I	186	THR	CA-C-N	6.32	128.74	120.28
1	9I	186	THR	C-N-CA	6.32	128.74	120.28
1	9O	104	ILE	O-C-N	6.32	128.00	121.87
1	9W	191	VAL	CA-C-O	6.32	127.47	120.71
1	a8	29	GLU	O-C-N	-6.32	115.42	122.12
1	ab	44	SER	CB-CA-C	-6.32	99.78	110.64
1	12	112	GLN	CB-CG-CD	6.32	123.33	112.60
1	au	200	THR	N-CA-CB	6.32	119.17	110.01
1	aN	203	LYS	CA-C-N	6.32	128.65	120.44
1	aN	203	LYS	C-N-CA	6.32	128.65	120.44
1	aS	62	HIS	O-C-N	-6.32	115.09	122.86
1	aZ	143	ARG	CA-C-N	6.32	129.26	120.29
1	aZ	143	ARG	C-N-CA	6.32	129.26	120.29
1	b5	172	LEU	CA-C-N	6.32	133.60	121.54
1	b5	172	LEU	C-N-CA	6.32	133.60	121.54
1	b9	21	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	bo	135	ILE	N-CA-C	-6.32	103.72	112.50
1	bu	19	THR	CA-CB-OG1	-6.32	100.13	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bu	91	ILE	O-C-N	-6.32	116.66	122.79
1	bz	3	VAL	CA-CB-CG1	6.32	121.14	110.40
1	bJ	168	PHE	CA-C-N	6.32	129.03	120.38
1	bJ	168	PHE	C-N-CA	6.32	129.03	120.38
1	c0	83	LEU	O-C-N	-6.32	113.97	122.43
1	c5	20	LEU	N-CA-C	6.32	117.96	111.14
1	cM	202	LEU	N-CA-C	6.32	118.97	111.33
1	cQ	179	GLN	OE1-CD-NE2	6.32	128.92	122.60
1	d1	53	ASN	OD1-CG-ND2	-6.32	116.28	122.60
1	d2	70	LYS	CA-C-N	6.32	129.26	120.29
1	d2	70	LYS	C-N-CA	6.32	129.26	120.29
1	dc	73	ILE	CA-C-N	6.32	128.74	120.28
1	dc	73	ILE	C-N-CA	6.32	128.74	120.28
1	dn	182	LYS	N-CA-C	6.32	118.16	111.28
1	dx	166	ASP	CA-C-N	6.32	129.03	120.44
1	dx	166	ASP	C-N-CA	6.32	129.03	120.44
1	dK	78	ALA	O-C-N	-6.32	114.95	122.15
1	eL	58	THR	N-CA-C	-6.32	105.40	113.23
1	eY	23	TRP	CA-CB-CG	6.32	125.60	113.60
1	f6	140	LYS	CA-C-O	-6.32	114.19	120.82
1	fa	219	GLN	N-CA-CB	6.32	122.38	112.46
1	fJ	106	GLY	CA-C-O	6.32	126.14	119.07
1	fR	120	HIS	CG-CD2-NE2	6.32	113.52	107.20
1	g1	64	ALA	CA-C-O	6.32	127.24	120.10
1	f	67	GLN	N-CA-C	6.32	118.16	111.28
1	i	97	ARG	NE-CZ-NH1	-6.32	115.18	121.50
1	o	57	ASN	O-C-N	-6.32	114.50	122.27
1	y	92	GLU	CA-C-O	-6.32	113.60	120.17
1	M	201	ILE	N-CA-C	6.32	116.99	110.36
1	M	226	HIS	CE1-NE2-CD2	-6.32	102.69	109.00
1	gc	172	LEU	CA-C-N	6.31	129.37	120.28
1	gc	172	LEU	C-N-CA	6.31	129.37	120.28
1	1O	179	GLN	CA-C-O	6.31	127.24	120.55
1	jV	83	LEU	CA-C-O	6.31	127.24	120.55
1	22	149	SER	CA-C-N	6.31	131.12	120.64
1	22	149	SER	C-N-CA	6.31	131.12	120.64
1	2c	113	GLU	O-C-N	-6.31	115.43	122.12
1	2j	39	MET	N-CA-C	6.31	118.69	111.11
1	2n	48	THR	CA-C-N	6.31	127.73	119.84
1	2n	48	THR	C-N-CA	6.31	127.73	119.84
1	2Y	137	GLY	N-CA-C	6.31	120.85	112.77
1	3C	168	PHE	N-CA-C	6.31	118.16	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4c	184	TRP	CA-C-N	6.31	129.37	120.28
1	4c	184	TRP	C-N-CA	6.31	129.37	120.28
1	4d	33	SER	CA-C-O	-6.31	114.70	120.13
1	59	71	GLU	N-CA-C	6.31	118.69	111.11
1	5n	166	ASP	CA-CB-CG	6.31	118.91	112.60
1	5C	147	PRO	N-CA-C	-6.31	105.76	114.98
1	6H	105	ALA	N-CA-CB	-6.31	101.31	110.47
1	6I	131	LYS	N-CA-C	6.31	118.97	111.71
1	77	223	GLY	N-CA-C	6.31	119.58	112.00
1	7W	74	ASN	CB-CG-ND2	-6.31	106.93	116.40
1	8Y	7	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	92	71	GLU	CA-C-N	6.31	128.65	120.44
1	92	71	GLU	C-N-CA	6.31	128.65	120.44
1	9j	69	LEU	O-C-N	-6.31	115.57	122.07
1	9u	226	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	9z	100	ARG	CA-C-N	-6.31	112.25	120.14
1	9z	100	ARG	C-N-CA	-6.31	112.25	120.14
1	9E	54	THR	N-CA-CB	6.31	119.40	110.12
1	aa	179	GLN	CA-C-O	-6.31	113.86	120.55
1	14	4	GLN	O-C-N	-6.31	114.19	122.59
1	bc	110	THR	N-CA-C	6.31	118.94	110.35
1	bD	50	GLN	CA-C-O	6.31	127.24	120.55
1	bI	7	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	bV	183	ASN	N-CA-C	6.31	118.16	111.28
1	cg	81	ASP	CB-CA-C	6.31	120.79	110.88
1	co	113	GLU	N-CA-C	6.31	117.96	111.14
1	d4	217	ALA	CA-C-N	6.31	131.12	122.34
1	d4	217	ALA	C-N-CA	6.31	131.12	122.34
1	dF	12	HIS	CA-CB-CG	-6.31	107.49	113.80
1	e1	28	GLU	N-CA-C	6.31	118.16	111.28
1	e3	152	ASP	CA-CB-CG	-6.31	106.29	112.60
1	ec	19	THR	N-CA-C	6.31	118.16	111.28
1	fG	15	ILE	N-CA-C	6.31	117.89	109.37
1	fT	97	ARG	NH1-CZ-NH2	-6.31	111.09	119.30
1	0	176	GLN	N-CA-CB	6.31	121.16	110.49
1	1	100	ARG	CA-C-N	6.31	128.03	120.14
1	1	100	ARG	C-N-CA	6.31	128.03	120.14
1	q	37	ILE	CA-C-O	-6.31	111.49	119.95
1	R	185	MET	CA-C-O	6.31	127.20	120.70
1	gM	214	MET	CA-C-N	6.31	129.91	120.31
1	gM	214	MET	C-N-CA	6.31	129.91	120.31
1	h3	44	SER	CA-C-N	6.31	133.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	44	SER	C-N-CA	6.31	133.60	121.54
1	h4	37	ILE	CA-C-N	6.31	125.88	119.19
1	h4	37	ILE	C-N-CA	6.31	125.88	119.19
1	1H	13	GLN	CA-C-N	6.31	130.10	120.82
1	1H	13	GLN	C-N-CA	6.31	130.10	120.82
1	hi	172	LEU	CA-C-N	6.31	129.91	120.31
1	hi	172	LEU	C-N-CA	6.31	129.91	120.31
1	hP	131	LYS	O-C-N	6.31	128.81	122.12
1	hY	154	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	ic	87	HIS	CB-CG-CD2	-6.31	122.99	131.20
1	ip	118	MET	CG-SD-CE	-6.31	87.01	100.90
1	iX	212	GLU	CA-C-N	6.31	129.25	120.29
1	iX	212	GLU	C-N-CA	6.31	129.25	120.29
1	j1	96	MET	O-C-N	-6.31	115.19	122.89
1	je	189	LEU	CA-C-N	6.31	129.91	120.31
1	je	189	LEU	C-N-CA	6.31	129.91	120.31
1	jv	77	ALA	N-CA-C	6.31	118.16	111.28
1	jP	120	HIS	ND1-CE1-NE2	6.31	114.71	108.40
1	kb	216	THR	O-C-N	6.31	129.81	122.17
1	kk	144	MET	N-CA-C	6.31	118.97	111.33
1	kw	167	ARG	CA-C-N	6.31	128.65	120.44
1	kw	167	ARG	C-N-CA	6.31	128.65	120.44
1	kE	16	SER	CA-C-N	6.31	126.00	119.56
1	kE	16	SER	C-N-CA	6.31	126.00	119.56
1	kE	226	HIS	ND1-CE1-NE2	6.31	114.71	108.40
1	kK	149	SER	CA-C-O	6.31	127.11	120.36
1	kU	18	ARG	CA-CB-CG	6.31	126.73	114.10
1	kV	185	MET	N-CA-C	6.31	118.16	111.28
1	l3	51	ASP	N-CA-C	6.31	118.97	111.71
1	lj	226	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	lC	52	LEU	CA-C-N	6.31	128.65	120.44
1	lC	52	LEU	C-N-CA	6.31	128.65	120.44
1	lQ	173	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	2q	227	LYS	O-C-N	6.31	129.83	122.19
1	2v	156	GLY	CA-C-O	-6.31	116.34	122.46
1	2C	29	GLU	N-CA-C	6.31	117.83	111.07
1	2I	144	MET	O-C-N	-6.31	114.95	122.15
1	2M	134	ILE	CA-C-N	6.31	129.11	120.46
1	2M	134	ILE	C-N-CA	6.31	129.11	120.46
1	2M	195	ASN	CA-CB-CG	6.31	118.91	112.60
1	2P	116	GLY	CA-C-N	6.31	128.65	120.44
1	2P	116	GLY	C-N-CA	6.31	128.65	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	25	LYS	N-CA-C	6.31	118.16	111.28
1	3p	63	GLN	CA-C-N	6.31	128.74	120.28
1	3p	63	GLN	C-N-CA	6.31	128.74	120.28
1	3y	90	PRO	O-C-N	-6.31	115.27	122.91
1	3N	206	GLY	O-C-N	-6.31	115.46	121.77
1	3Q	8	GLY	O-C-N	-6.31	114.49	122.70
1	3S	15	ILE	N-CA-C	6.31	118.54	109.51
1	45	150	ILE	O-C-N	-6.31	115.52	121.90
1	4j	1	PRO	CA-C-N	6.31	131.02	123.19
1	4j	1	PRO	C-N-CA	6.31	131.02	123.19
1	4r	111	LEU	O-C-N	-6.31	115.43	122.12
1	4u	136	LEU	CA-C-O	6.31	127.24	120.55
1	4F	59	VAL	O-C-N	-6.31	115.57	122.64
1	4G	53	ASN	CA-CB-CG	-6.31	106.29	112.60
1	51	139	ASN	OD1-CG-ND2	6.31	128.91	122.60
1	5p	132	ARG	CA-C-N	6.31	128.74	120.28
1	5p	132	ARG	C-N-CA	6.31	128.74	120.28
1	5r	33	SER	CA-C-N	6.31	125.94	119.56
1	5r	33	SER	C-N-CA	6.31	125.94	119.56
1	65	200	THR	O-C-N	-6.31	115.43	122.12
1	6e	226	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	6r	91	ILE	CA-C-N	6.31	130.26	120.60
1	6r	91	ILE	C-N-CA	6.31	130.26	120.60
1	6S	101	GLY	CA-C-O	6.31	127.35	120.66
1	7o	26	VAL	N-CA-C	6.31	116.48	110.42
1	7C	188	THR	N-CA-C	-6.31	104.64	112.72
1	7X	113	GLU	CA-C-N	6.31	128.74	120.28
1	7X	113	GLU	C-N-CA	6.31	128.74	120.28
1	84	154	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	8d	165	VAL	N-CA-C	6.31	117.06	110.62
1	8k	154	ARG	NH1-CZ-NH2	6.31	127.51	119.30
1	9a	70	LYS	N-CA-C	6.31	118.24	111.36
1	9O	47	ALA	N-CA-C	6.31	119.51	110.10
1	a1	135	ILE	O-C-N	-6.31	113.41	122.12
1	ae	144	MET	CA-C-O	6.31	127.11	120.42
1	12	40	PHE	CA-C-O	-6.31	113.86	120.55
1	aQ	79	GLU	N-CA-C	-6.31	104.32	111.07
1	aW	219	GLN	CA-C-N	6.31	129.89	122.19
1	aW	219	GLN	C-N-CA	6.31	129.89	122.19
1	b6	126	VAL	N-CA-C	6.31	117.06	110.62
1	b7	67	GLN	N-CA-C	6.31	118.16	111.28
1	bf	103	ASP	CA-C-N	6.31	129.11	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	103	ASP	C-N-CA	6.31	129.11	120.46
1	bG	184	TRP	N-CA-CB	-6.31	100.84	110.12
1	1c	193	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	cr	124	ILE	CA-C-O	-6.31	113.01	119.89
1	1h	128	GLU	N-CA-CB	6.31	119.50	110.16
1	cZ	64	ALA	N-CA-C	6.31	118.16	111.28
1	df	82	ARG	NE-CZ-NH2	6.31	124.88	119.20
1	dg	165	VAL	O-C-N	-6.31	115.75	121.87
1	dk	132	ARG	CA-C-O	-6.31	114.19	120.82
1	dA	12	HIS	ND1-CE1-NE2	6.31	114.71	108.40
1	eb	193	ASN	CA-C-N	6.31	131.87	121.39
1	eb	193	ASN	C-N-CA	6.31	131.87	121.39
1	ek	13	GLN	CA-C-N	6.31	129.67	120.71
1	ek	13	GLN	C-N-CA	6.31	129.67	120.71
1	ev	100	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	eF	138	LEU	CA-C-N	6.31	129.06	120.54
1	eF	138	LEU	C-N-CA	6.31	129.06	120.54
1	1t	67	GLN	CA-C-N	6.31	129.03	120.38
1	1t	67	GLN	C-N-CA	6.31	129.03	120.38
1	fa	120	HIS	O-C-N	-6.31	115.04	122.81
1	fF	35	GLU	CA-C-N	6.31	129.43	120.53
1	fF	35	GLU	C-N-CA	6.31	129.43	120.53
1	fQ	70	LYS	O-C-N	-6.31	115.52	122.09
1	fS	84	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	g3	174	ALA	CA-C-N	6.31	129.67	120.71
1	g3	174	ALA	C-N-CA	6.31	129.67	120.71
1	0	37	ILE	CA-C-N	6.31	125.73	118.85
1	0	37	ILE	C-N-CA	6.31	125.73	118.85
1	e	140	LYS	CA-C-N	6.31	128.51	120.56
1	e	140	LYS	C-N-CA	6.31	128.51	120.56
1	G	143	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	J	5	ASN	CB-CA-C	-6.31	97.20	109.76
1	R	17	PRO	N-CA-CB	-6.31	97.45	103.51
1	gz	106	GLY	CA-C-N	6.31	129.02	120.44
1	gz	106	GLY	C-N-CA	6.31	129.02	120.44
1	h9	202	LEU	O-C-N	-6.31	115.43	122.12
1	hg	201	ILE	N-CA-C	6.31	116.79	110.23
1	iL	48	THR	CA-C-O	-6.31	113.56	120.69
1	je	100	ARG	CA-C-N	6.31	127.10	120.03
1	je	100	ARG	C-N-CA	6.31	127.10	120.03
1	kJ	206	GLY	CA-C-N	6.31	125.88	119.19
1	kJ	206	GLY	C-N-CA	6.31	125.88	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lg	96	MET	CG-SD-CE	-6.31	87.02	100.90
1	2b	81	ASP	N-CA-CB	-6.31	100.50	110.22
1	2b	158	LYS	CA-C-O	6.31	126.22	119.34
1	2k	43	LEU	O-C-N	-6.31	114.45	122.34
1	2k	216	THR	CB-CA-C	-6.31	100.93	110.90
1	2l	121	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	2n	137	GLY	N-CA-C	6.31	120.30	112.73
1	2x	217	ALA	CA-C-O	6.31	128.13	121.19
1	2Q	107	THR	CA-CB-OG1	6.31	119.07	109.60
1	3I	167	ARG	CA-C-N	6.31	128.74	120.28
1	3I	167	ARG	C-N-CA	6.31	128.74	120.28
1	54	150	ILE	O-C-N	-6.31	115.70	121.89
1	5b	125	PRO	CA-C-N	6.31	129.11	120.46
1	5b	125	PRO	C-N-CA	6.31	129.11	120.46
1	5g	112	GLN	O-C-N	-6.31	115.43	122.12
1	5y	222	GLY	O-C-N	-6.31	116.78	122.77
1	5V	85	PRO	N-CA-CB	6.31	109.88	103.25
1	5W	112	GLN	N-CA-C	6.31	118.97	111.33
1	67	142	VAL	CB-CA-C	6.31	120.31	112.04
1	6c	66	MET	N-CA-C	6.31	118.16	111.28
1	6W	131	LYS	O-C-N	-6.31	115.57	122.07
1	74	142	VAL	CA-CB-CG2	-6.31	99.67	110.40
1	7B	177	ALA	N-CA-C	6.31	118.67	110.53
1	7M	41	SER	CA-C-N	6.31	129.03	120.38
1	7M	41	SER	C-N-CA	6.31	129.03	120.38
1	8b	47	ALA	CA-C-N	6.31	131.13	121.03
1	8b	47	ALA	C-N-CA	6.31	131.13	121.03
1	8W	65	ALA	CA-C-N	6.31	128.64	120.44
1	8W	65	ALA	C-N-CA	6.31	128.64	120.44
1	9O	115	ILE	O-C-N	-6.31	115.75	121.87
1	a5	129	ILE	CA-C-N	6.31	128.74	120.28
1	a5	129	ILE	C-N-CA	6.31	128.74	120.28
1	ak	7	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	aH	87	HIS	CA-C-N	6.31	129.67	120.71
1	aH	87	HIS	C-N-CA	6.31	129.67	120.71
1	b0	113	GLU	CA-C-O	6.31	127.70	120.00
1	b8	121	ASN	CA-C-O	-6.31	114.92	120.60
1	bl	56	LEU	N-CA-C	6.31	117.82	111.07
1	bu	218	CYS	N-CA-C	6.31	120.58	111.56
1	bv	105	ALA	CA-C-O	6.31	126.94	119.56
1	bA	167	ARG	N-CA-C	6.31	117.82	111.07
1	bR	110	THR	CA-C-N	6.31	128.74	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bR	110	THR	C-N-CA	6.31	128.74	120.28
1	bU	131	LYS	CA-C-N	6.31	128.64	120.44
1	bU	131	LYS	C-N-CA	6.31	128.64	120.44
1	c4	195	ASN	CA-C-O	-6.31	113.61	120.17
1	de	64	ALA	N-CA-C	6.31	118.24	111.36
1	do	182	LYS	CA-C-N	6.31	128.64	120.44
1	do	182	LYS	C-N-CA	6.31	128.64	120.44
1	dT	22	ALA	CA-C-O	6.31	127.45	120.82
1	e8	47	ALA	N-CA-C	6.31	119.50	110.10
1	eF	19	THR	CA-CB-CG2	6.31	121.23	110.50
1	fk	155	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	b	108	THR	O-C-N	-6.31	113.61	122.26
1	x	201	ILE	CA-CB-CG1	6.31	121.13	110.40
1	H	132	ARG	O-C-N	-6.31	114.51	122.27
1	ge	126	VAL	N-CA-C	6.31	117.06	110.62
1	gj	30	LYS	CA-C-N	6.31	129.90	120.31
1	gj	30	LYS	C-N-CA	6.31	129.90	120.31
1	gy	77	ALA	CA-C-O	6.31	127.45	120.82
1	1E	152	ASP	CA-CB-CG	6.31	118.91	112.60
1	gE	229	ARG	N-CA-C	6.31	119.76	110.30
1	hi	183	ASN	N-CA-C	6.31	118.16	111.28
1	hG	64	ALA	N-CA-C	6.31	118.16	111.28
1	hY	229	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	i3	164	TYR	CA-C-N	6.31	129.10	120.46
1	i3	164	TYR	C-N-CA	6.31	129.10	120.46
1	i5	20	LEU	O-C-N	-6.31	115.28	122.09
1	ir	64	ALA	CB-CA-C	-6.31	100.12	110.85
1	iG	152	ASP	CA-CB-CG	-6.31	106.29	112.60
1	jE	191	VAL	N-CA-C	6.31	117.06	110.62
1	jY	161	PHE	CA-CB-CG	-6.31	107.49	113.80
1	1Z	164	TYR	CB-CA-C	6.31	120.79	110.88
1	k7	206	GLY	CA-C-N	6.31	126.51	119.32
1	k7	206	GLY	C-N-CA	6.31	126.51	119.32
1	kg	64	ALA	N-CA-C	6.31	118.16	111.28
1	kt	32	PHE	CA-C-O	6.31	127.89	120.70
1	ku	97	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	l6	98	GLU	O-C-N	6.31	127.80	121.30
1	lo	193	ASN	N-CA-C	6.31	121.12	113.17
1	lp	76	GLU	N-CA-C	6.31	118.16	111.28
1	lI	166	ASP	CA-CB-CG	6.31	118.91	112.60
1	lL	127	GLY	CA-C-N	6.31	128.74	120.28
1	lL	127	GLY	C-N-CA	6.31	128.74	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lP	115	ILE	O-C-N	-6.31	115.63	121.94
1	2m	18	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	2v	229	ARG	NE-CZ-NH2	-6.31	113.52	119.20
1	2x	167	ARG	CA-C-N	6.31	128.64	120.44
1	2x	167	ARG	C-N-CA	6.31	128.64	120.44
1	2B	51	ASP	CA-C-N	6.31	128.64	120.44
1	2B	51	ASP	C-N-CA	6.31	128.64	120.44
1	3s	114	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	3w	165	VAL	N-CA-CB	6.31	117.93	110.55
1	3z	118	MET	N-CA-CB	6.31	119.16	110.01
1	3I	75	GLU	N-CA-C	6.31	118.16	111.28
1	3Z	187	GLU	N-CA-C	6.31	117.82	111.07
1	44	136	LEU	CA-C-N	6.31	126.94	119.94
1	44	136	LEU	C-N-CA	6.31	126.94	119.94
1	46	228	ALA	CB-CA-C	6.31	119.30	109.84
1	4b	12	HIS	CA-CB-CG	-6.31	107.49	113.80
1	4e	132	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	4g	113	GLU	N-CA-C	6.31	118.16	111.28
1	4p	139	ASN	CA-CB-CG	-6.31	106.29	112.60
1	4w	62	HIS	CB-CG-ND1	-6.31	113.23	122.70
1	4F	111	LEU	CA-C-N	6.31	128.74	120.28
1	4F	111	LEU	C-N-CA	6.31	128.74	120.28
1	4T	89	GLY	N-CA-C	6.31	125.21	112.34
1	5l	197	ASP	CA-C-N	6.31	129.25	120.29
1	5l	197	ASP	C-N-CA	6.31	129.25	120.29
1	5w	169	TYR	O-C-N	-6.31	115.43	122.12
1	5B	108	THR	O-C-N	-6.31	115.35	122.23
1	62	134	ILE	O-C-N	-6.31	115.75	121.87
1	6d	132	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	6h	71	GLU	N-CA-C	6.31	118.24	111.36
1	6i	193	ASN	N-CA-C	6.31	120.59	113.02
1	6j	16	SER	N-CA-C	6.31	117.65	109.64
1	6t	199	LYS	CA-C-N	6.31	128.64	120.44
1	6t	199	LYS	C-N-CA	6.31	128.64	120.44
1	6w	142	VAL	CA-C-O	6.31	127.86	121.17
1	6O	228	ALA	N-CA-C	6.31	119.38	110.23
1	78	26	VAL	N-CA-CB	6.31	120.05	110.58
1	7a	42	ALA	CA-C-N	6.31	129.03	120.38
1	7a	42	ALA	C-N-CA	6.31	129.03	120.38
1	7b	91	ILE	N-CA-C	6.31	116.57	108.12
1	7d	200	THR	CA-C-N	6.31	128.51	120.56
1	7d	200	THR	C-N-CA	6.31	128.51	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7e	62	HIS	CB-CG-ND1	-6.31	113.23	122.70
1	7o	35	GLU	O-C-N	-6.31	113.75	122.46
1	7u	112	GLN	N-CA-C	6.31	118.97	111.71
1	7A	105	ALA	CA-C-N	6.31	131.10	121.51
1	7A	105	ALA	C-N-CA	6.31	131.10	121.51
1	7K	139	ASN	O-C-N	-6.31	114.84	122.22
1	7Q	229	ARG	NE-CZ-NH2	6.31	124.88	119.20
1	80	84	HIS	CA-CB-CG	6.31	120.11	113.80
1	8c	195	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	8j	116	GLY	O-C-N	-6.31	116.12	122.18
1	8s	210	THR	CA-CB-OG1	6.31	119.06	109.60
1	8E	2	ILE	N-CA-CB	-6.31	103.84	110.72
1	8T	139	ASN	CA-C-O	6.31	127.24	120.55
1	8Z	84	HIS	CA-CB-CG	-6.31	107.49	113.80
1	9j	84	HIS	O-C-N	-6.31	114.36	121.36
1	9p	27	VAL	O-C-N	-6.31	114.67	121.80
1	9y	18	ARG	N-CA-CB	6.31	119.52	110.06
1	9C	35	GLU	CA-C-N	6.31	128.74	120.60
1	9C	35	GLU	C-N-CA	6.31	128.74	120.60
1	9K	96	MET	N-CA-C	6.31	119.63	110.42
1	9N	110	THR	CA-CB-OG1	6.31	119.06	109.60
1	Y	87	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	a8	73	ILE	CA-C-N	6.31	129.06	120.54
1	a8	73	ILE	C-N-CA	6.31	129.06	120.54
1	ag	72	THR	O-C-N	-6.31	115.57	122.07
1	b8	9	GLN	O-C-N	-6.31	115.21	122.09
1	be	36	VAL	O-C-N	-6.31	114.73	122.18
1	bX	125	PRO	N-CA-CB	6.31	106.95	102.79
1	c7	12	HIS	CA-C-N	6.31	132.46	122.74
1	c7	12	HIS	C-N-CA	6.31	132.46	122.74
1	cx	110	THR	N-CA-CB	6.31	119.88	110.29
1	d0	62	HIS	CB-CG-CD2	-6.31	123.00	131.20
1	dD	183	ASN	N-CA-C	6.31	117.82	111.07
1	dH	170	LYS	N-CA-C	6.31	118.96	111.33
1	1m	99	PRO	CB-CA-C	6.31	119.60	111.46
1	dI	64	ALA	CA-C-N	6.31	128.64	120.44
1	dI	64	ALA	C-N-CA	6.31	128.64	120.44
1	ej	25	LYS	N-CA-C	6.31	117.85	110.97
1	1q	142	VAL	CA-C-N	6.31	131.22	121.19
1	1q	142	VAL	C-N-CA	6.31	131.22	121.19
1	ep	203	LYS	CA-C-N	6.31	128.64	120.44
1	ep	203	LYS	C-N-CA	6.31	128.64	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eO	62	HIS	ND1-CG-CD2	6.31	112.41	106.10
1	eO	169	TYR	O-C-N	-6.31	115.43	122.12
1	f4	121	ASN	O-C-N	-6.31	115.78	121.39
1	fa	135	ILE	N-CA-C	6.31	117.06	110.62
1	fo	62	HIS	N-CA-C	6.31	120.32	112.24
1	fx	90	PRO	CA-C-O	-6.31	114.65	121.27
1	fH	111	LEU	O-C-N	-6.31	115.53	122.09
1	fI	175	GLU	N-CA-C	6.31	119.38	110.23
1	fN	100	ARG	CA-C-N	6.31	126.94	119.94
1	fN	100	ARG	C-N-CA	6.31	126.94	119.94
1	fP	151	LEU	CA-C-N	6.31	128.64	120.44
1	fP	151	LEU	C-N-CA	6.31	128.64	120.44
1	fX	174	ALA	CA-C-O	-6.31	114.19	120.82
1	i	62	HIS	N-CA-C	6.31	119.88	111.30
1	j	226	HIS	CB-CG-CD2	-6.31	123.00	131.20
1	z	24	VAL	CA-CB-CG1	6.31	121.13	110.40
1	I	79	GLU	N-CA-C	6.31	118.97	111.33
1	I	82	ARG	O-C-N	-6.31	115.57	122.07
1	O	90	PRO	N-CA-CB	-6.31	97.46	103.39
1	Q	197	ASP	N-CA-C	6.31	117.95	111.14
1	T	120	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
1	6	65	ALA	O-C-N	-6.31	115.57	122.07
1	6	190	LEU	N-CA-C	6.31	118.72	111.02
1	gg	141	ILE	CA-C-N	6.31	128.51	120.56
1	gg	141	ILE	C-N-CA	6.31	128.51	120.56
1	gj	153	ILE	N-CA-CB	6.31	118.38	110.05
1	h2	27	VAL	O-C-N	-6.31	115.33	121.83
1	hh	156	GLY	CA-C-O	-6.31	112.50	121.52
1	hW	107	THR	CA-C-N	-6.31	112.66	122.37
1	hW	107	THR	C-N-CA	-6.31	112.66	122.37
1	hW	175	GLU	CA-C-N	6.31	132.74	122.65
1	hW	175	GLU	C-N-CA	6.31	132.74	122.65
1	ip	136	LEU	O-C-N	-6.31	114.96	122.15
1	1R	21	ASN	N-CA-C	6.31	117.95	111.14
1	jb	9	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	jh	17	PRO	CA-C-N	-6.31	111.74	120.38
1	jh	17	PRO	C-N-CA	-6.31	111.74	120.38
1	jh	73	ILE	CA-C-O	-6.31	114.39	120.95
1	jC	115	ILE	CA-C-O	6.31	127.51	120.95
1	jH	216	THR	N-CA-CB	6.31	119.50	110.16
1	jK	102	SER	N-CA-C	6.31	119.14	111.82
1	jM	82	ARG	N-CA-CB	6.31	119.50	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k6	61	GLY	CA-C-N	6.31	131.95	122.68
1	k6	61	GLY	C-N-CA	6.31	131.95	122.68
1	kQ	16	SER	N-CA-C	6.31	118.02	110.07
1	kR	74	ASN	N-CA-C	6.31	117.82	111.07
1	25	87	HIS	N-CA-C	6.31	119.06	108.02
1	lk	30	LYS	CA-C-N	6.31	128.73	120.28
1	lk	30	LYS	C-N-CA	6.31	128.73	120.28
1	lm	149	SER	N-CA-CB	6.31	121.15	110.49
1	lH	51	ASP	CA-CB-CG	-6.31	106.29	112.60
1	lM	181	VAL	CA-C-O	6.31	127.83	121.27
1	lN	35	GLU	CA-C-N	6.31	128.63	120.56
1	lN	35	GLU	C-N-CA	6.31	128.63	120.56
1	2o	174	ALA	CA-C-N	6.31	129.67	120.71
1	2o	174	ALA	C-N-CA	6.31	129.67	120.71
1	2I	189	LEU	CA-C-O	6.31	127.98	120.92
1	2I	198	CYS	N-CA-C	6.31	118.16	111.28
1	2T	108	THR	CB-CA-C	-6.31	100.86	111.02
1	2Z	82	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	3B	72	THR	N-CA-CB	6.31	119.16	110.01
1	49	86	VAL	O-C-N	-6.31	115.94	122.63
1	4p	155	GLN	OE1-CD-NE2	-6.31	116.29	122.60
1	4B	177	ALA	CA-C-N	6.31	130.28	120.75
1	4B	177	ALA	C-N-CA	6.31	130.28	120.75
1	5j	15	ILE	O-C-N	-6.31	116.24	122.67
1	5t	69	LEU	CA-C-O	6.31	127.65	120.90
1	5P	151	LEU	O-C-N	-6.31	115.43	122.12
1	6y	36	VAL	CA-C-N	6.31	126.48	120.43
1	6y	36	VAL	C-N-CA	6.31	126.48	120.43
1	6A	214	MET	N-CA-C	6.31	118.16	111.28
1	6D	51	ASP	CA-C-N	6.31	128.64	120.44
1	6D	51	ASP	C-N-CA	6.31	128.64	120.44
1	7k	143	ARG	N-CA-C	6.31	119.14	111.82
1	7F	112	GLN	CB-CA-C	-6.31	100.37	110.84
1	7R	15	ILE	N-CA-C	6.31	119.75	109.78
1	7U	142	VAL	O-C-N	-6.31	115.75	121.87
1	7Z	93	PRO	N-CA-C	6.31	121.11	111.15
1	83	90	PRO	CA-C-N	6.31	129.02	120.63
1	83	90	PRO	C-N-CA	6.31	129.02	120.63
1	8l	216	THR	CA-C-O	6.31	126.69	119.18
1	8E	62	HIS	CA-CB-CG	-6.31	107.49	113.80
1	8V	173	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	8Y	161	PHE	CA-C-N	6.31	129.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Y	161	PHE	C-N-CA	6.31	129.36	120.28
1	90	47	ALA	N-CA-C	6.31	119.79	109.76
1	90	62	HIS	CA-C-N	6.31	129.25	120.29
1	90	62	HIS	C-N-CA	6.31	129.25	120.29
1	9l	198	CYS	CA-C-N	6.31	128.73	120.28
1	9l	198	CYS	C-N-CA	6.31	128.73	120.28
1	9X	110	THR	CA-CB-OG1	6.31	119.06	109.60
1	a7	100	ARG	NE-CZ-NH2	6.31	124.88	119.20
1	10	132	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	ac	131	LYS	O-C-N	-6.31	115.43	122.12
1	ag	123	PRO	CA-C-O	-6.31	114.44	121.32
1	aA	230	VAL	O-C-N	-6.31	115.80	122.67
1	aJ	37	ILE	CA-C-O	-6.31	113.92	118.71
1	14	12	HIS	CA-CB-CG	-6.31	107.49	113.80
1	bb	47	ALA	CB-CA-C	6.31	119.74	109.90
1	bH	36	VAL	CA-C-O	6.31	127.86	121.17
1	bT	192	GLN	N-CA-C	6.31	119.14	111.82
1	c0	97	ARG	N-CA-CB	6.31	119.34	109.69
1	1c	169	TYR	CA-C-O	6.31	127.24	120.55
1	cm	36	VAL	CA-C-N	6.31	126.48	120.43
1	cm	36	VAL	C-N-CA	6.31	126.48	120.43
1	cA	63	GLN	N-CA-C	6.31	120.23	112.54
1	cT	110	THR	N-CA-CB	6.31	120.01	110.42
1	ds	83	LEU	O-C-N	-6.31	115.57	122.07
1	1n	151	LEU	CA-C-O	6.31	127.24	120.55
1	dT	141	ILE	CA-C-O	6.31	126.45	120.14
1	ea	129	ILE	O-C-N	-6.31	115.34	121.90
1	ed	12	HIS	CA-CB-CG	6.31	120.11	113.80
1	eh	47	ALA	N-CA-C	6.31	120.17	110.20
1	ej	53	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	er	50	GLN	N-CA-C	6.31	118.16	111.28
1	1r	88	ALA	CA-C-O	6.31	126.07	119.51
1	eE	5	ASN	OD1-CG-ND2	-6.31	116.29	122.60
1	1v	52	LEU	CA-C-N	6.31	128.73	120.28
1	1v	52	LEU	C-N-CA	6.31	128.73	120.28
1	fB	229	ARG	CA-C-O	6.31	125.72	118.97
1	fV	126	VAL	N-CA-C	6.31	117.81	110.62
1	g4	167	ARG	NH1-CZ-NH2	6.31	127.50	119.30
1	g	132	ARG	NH1-CZ-NH2	-6.31	111.10	119.30
1	2	186	THR	CA-C-O	-6.31	112.72	119.97
1	R	126	VAL	CB-CA-C	-6.31	103.78	112.04
1	U	62	HIS	CE1-NE2-CD2	-6.31	102.69	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gz	67	GLN	CA-C-N	6.31	129.25	120.29
1	gz	67	GLN	C-N-CA	6.31	129.25	120.29
1	h5	159	GLU	CA-C-O	6.31	123.99	119.32
1	hx	126	VAL	N-CA-C	6.31	117.05	110.62
1	1M	71	GLU	N-CA-C	6.31	118.15	111.28
1	ie	61	GLY	CA-C-O	-6.31	114.69	122.82
1	iD	12	HIS	ND1-CG-CD2	-6.31	99.79	106.10
1	jt	96	MET	CA-C-O	6.31	128.22	121.16
1	jP	105	ALA	CA-C-O	6.31	127.13	119.31
1	km	229	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	kq	12	HIS	ND1-CE1-NE2	6.31	114.71	108.40
1	lf	14	ALA	N-CA-C	6.31	119.81	110.48
1	lF	214	MET	CG-SD-CE	-6.31	87.03	100.90
1	lJ	125	PRO	N-CA-CB	-6.31	98.13	102.73
1	2a	71	GLU	N-CA-CB	6.31	119.15	110.01
1	2b	120	HIS	CB-CG-CD2	-6.31	123.00	131.20
1	2J	87	HIS	CB-CG-CD2	-6.31	123.00	131.20
1	3f	130	TYR	CA-C-N	6.31	128.73	120.28
1	3f	130	TYR	C-N-CA	6.31	128.73	120.28
1	3L	167	ARG	CA-C-N	6.31	129.05	120.54
1	3L	167	ARG	C-N-CA	6.31	129.05	120.54
1	3T	88	ALA	CA-C-N	6.31	131.77	121.87
1	3T	88	ALA	C-N-CA	6.31	131.77	121.87
1	49	163	ASP	CA-CB-CG	6.31	118.91	112.60
1	4i	139	ASN	CA-C-O	-6.31	113.86	120.55
1	4k	84	HIS	CA-CB-CG	-6.31	107.49	113.80
1	4D	89	GLY	O-C-N	6.31	128.08	121.77
1	4S	163	ASP	CA-C-N	6.31	129.25	120.29
1	4S	163	ASP	C-N-CA	6.31	129.25	120.29
1	5i	166	ASP	CA-C-O	6.31	127.19	120.70
1	5v	62	HIS	ND1-CG-CD2	6.31	112.41	106.10
1	5J	29	GLU	N-CA-C	6.31	117.95	111.14
1	5J	73	ILE	CA-C-N	6.31	129.25	120.29
1	5J	73	ILE	C-N-CA	6.31	129.25	120.29
1	6K	208	ALA	O-C-N	-6.31	115.57	121.56
1	6M	178	SER	N-CA-C	6.31	119.18	110.35
1	7A	88	ALA	CA-C-O	6.31	127.39	120.71
1	aN	19	THR	N-CA-CB	6.31	119.39	110.12
1	aX	65	ALA	CA-C-N	6.31	128.73	120.28
1	aX	65	ALA	C-N-CA	6.31	128.73	120.28
1	bf	54	THR	N-CA-C	6.31	118.15	111.28
1	bu	53	ASN	O-C-N	6.31	129.34	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bI	133	TRP	CB-CG-CD2	-6.31	117.97	126.80
1	dK	119	THR	CA-C-O	6.31	126.73	119.35
1	dO	226	HIS	CB-CA-C	6.31	120.84	111.89
1	fe	82	ARG	NE-CZ-NH1	6.31	127.81	121.50
1	fK	126	VAL	CA-C-O	-6.31	114.71	121.27
1	1z	63	GLN	CA-C-N	6.31	128.64	120.44
1	1z	63	GLN	C-N-CA	6.31	128.64	120.44
1	fO	62	HIS	O-C-N	-6.31	115.54	122.67
1	q	51	ASP	O-C-N	-6.31	115.44	122.12
1	gg	115	ILE	CA-C-O	-6.30	114.39	120.95
1	gx	53	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	1F	32	PHE	CA-CB-CG	-6.30	107.50	113.80
1	gV	201	ILE	N-CA-C	6.30	117.05	110.62
1	gX	229	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	h3	81	ASP	N-CA-C	-6.30	104.49	111.36
1	h4	47	ALA	N-CA-C	6.30	119.35	109.96
1	hy	129	ILE	N-CA-C	6.30	117.09	110.72
1	hF	7	GLN	CA-C-N	6.30	130.49	120.97
1	hF	7	GLN	C-N-CA	6.30	130.49	120.97
1	hH	66	MET	CG-SD-CE	-6.30	87.03	100.90
1	ie	72	THR	CA-C-O	6.30	127.10	120.42
1	ih	78	ALA	N-CA-C	6.30	118.15	111.28
1	iK	14	ALA	N-CA-C	6.30	119.37	110.23
1	iL	15	ILE	O-C-N	-6.30	116.68	122.79
1	iY	189	LEU	N-CA-C	6.30	117.81	111.07
1	jv	91	ILE	N-CA-C	-6.30	104.19	110.30
1	1W	45	GLU	CA-C-N	6.30	133.77	121.41
1	1W	45	GLU	C-N-CA	6.30	133.77	121.41
1	jJ	35	GLU	CA-C-O	6.30	127.18	119.11
1	jO	146	SER	N-CA-C	6.30	123.74	109.81
1	kb	206	GLY	CA-C-O	-6.30	112.50	121.52
1	kf	195	ASN	CA-C-N	6.30	127.72	119.84
1	kf	195	ASN	C-N-CA	6.30	127.72	119.84
1	kz	23	TRP	CG-CD2-CE3	6.30	140.21	133.90
1	kB	25	LYS	O-C-N	-6.30	115.44	122.12
1	23	41	SER	O-C-N	-6.30	114.52	122.27
1	23	139	ASN	CB-CG-ND2	6.30	125.86	116.40
1	ld	176	GLN	CA-C-N	6.30	129.82	120.87
1	ld	176	GLN	C-N-CA	6.30	129.82	120.87
1	lu	20	LEU	CA-C-O	6.30	127.65	120.90
1	lx	182	LYS	N-CA-C	6.30	119.13	111.82
1	lz	161	PHE	CA-C-N	6.30	129.55	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lz	161	PHE	C-N-CA	6.30	129.55	120.79
1	lA	95	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	2c	199	LYS	N-CA-C	6.30	118.15	111.28
1	2e	35	GLU	N-CA-C	6.30	120.97	113.28
1	2i	66	MET	N-CA-C	6.30	117.95	111.14
1	2s	212	GLU	N-CA-C	6.30	118.68	111.11
1	2t	92	GLU	CB-CG-CD	-6.30	101.88	112.60
1	2G	50	GLN	CA-C-O	6.30	127.22	120.10
1	2I	205	LEU	CA-C-N	6.30	131.77	121.87
1	2I	205	LEU	C-N-CA	6.30	131.77	121.87
1	2O	193	ASN	CA-C-O	6.30	126.73	119.35
1	2U	103	ASP	CA-C-N	6.30	128.50	120.56
1	2U	103	ASP	C-N-CA	6.30	128.50	120.56
1	3j	151	LEU	N-CA-C	6.30	118.23	111.36
1	3v	84	HIS	N-CA-C	6.30	118.62	109.04
1	3D	11	VAL	N-CA-C	6.30	116.67	108.35
1	3O	206	GLY	O-C-N	-6.30	115.47	121.77
1	40	134	ILE	N-CA-CB	6.30	117.51	110.51
1	44	229	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	4f	51	ASP	CA-C-N	6.30	129.24	120.29
1	4f	51	ASP	C-N-CA	6.30	129.24	120.29
1	4i	117	TRP	CA-C-N	6.30	129.89	120.31
1	4i	117	TRP	C-N-CA	6.30	129.89	120.31
1	4r	12	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	4v	85	PRO	CA-C-O	-6.30	114.24	121.36
1	5v	92	GLU	CA-C-N	6.30	127.72	119.84
1	5v	92	GLU	C-N-CA	6.30	127.72	119.84
1	5W	11	VAL	CA-C-O	-6.30	114.31	121.75
1	5Z	49	PRO	CA-C-N	6.30	128.63	120.44
1	5Z	49	PRO	C-N-CA	6.30	128.63	120.44
1	62	2	ILE	CA-C-N	6.30	132.72	122.69
1	62	2	ILE	C-N-CA	6.30	132.72	122.69
1	6i	118	MET	CG-SD-CE	-6.30	87.03	100.90
1	6m	21	ASN	CA-CB-CG	6.30	118.90	112.60
1	6L	139	ASN	N-CA-C	6.30	118.15	111.28
1	7e	167	ARG	NH1-CZ-NH2	-6.30	111.10	119.30
1	7n	88	ALA	N-CA-C	6.30	119.63	109.86
1	7H	82	ARG	NE-CZ-NH2	6.30	124.87	119.20
1	7L	41	SER	N-CA-C	6.30	118.68	111.11
1	7P	184	TRP	O-C-N	-6.30	114.52	122.27
1	91	162	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	92	150	ILE	N-CA-C	6.30	117.05	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	93	141	ILE	N-CA-C	6.30	116.47	110.42
1	9p	77	ALA	O-C-N	6.30	128.80	122.12
1	9F	44	SER	CA-C-N	6.30	133.58	121.54
1	9F	44	SER	C-N-CA	6.30	133.58	121.54
1	9I	63	GLN	CG-CD-NE2	6.30	125.86	116.40
1	9Y	204	ALA	O-C-N	-6.30	115.44	122.12
1	a3	160	PRO	N-CA-CB	6.30	109.87	103.25
1	ag	181	VAL	CA-C-O	-6.30	114.71	121.27
1	am	95	GLN	OE1-CD-NE2	6.30	128.90	122.60
1	aB	73	ILE	N-CA-CB	-6.30	103.17	110.55
1	13	169	TYR	CA-C-O	6.30	127.10	120.42
1	b0	115	ILE	CA-C-N	6.30	127.11	119.99
1	b0	115	ILE	C-N-CA	6.30	127.11	119.99
1	bs	113	GLU	CA-C-N	6.30	129.24	120.29
1	bs	113	GLU	C-N-CA	6.30	129.24	120.29
1	bC	161	PHE	CA-C-N	6.30	128.73	120.28
1	bC	161	PHE	C-N-CA	6.30	128.73	120.28
1	bE	139	ASN	CA-CB-CG	6.30	118.91	112.60
1	bK	125	PRO	N-CA-CB	-6.30	98.59	102.81
1	c5	87	HIS	CG-CD2-NE2	6.30	113.50	107.20
1	c8	169	TYR	O-C-N	-6.30	115.44	122.12
1	cM	77	ALA	N-CA-C	6.30	117.81	111.07
1	cN	27	VAL	N-CA-C	6.30	116.47	110.42
1	cO	165	VAL	CA-C-N	6.30	128.73	120.28
1	cO	165	VAL	C-N-CA	6.30	128.73	120.28
1	cY	15	ILE	CA-CB-CG2	6.30	121.22	110.50
1	db	161	PHE	O-C-N	-6.30	115.44	122.12
1	dk	165	VAL	CA-C-O	-6.30	114.71	121.27
1	dt	193	ASN	N-CA-C	-6.30	104.90	112.59
1	dw	103	ASP	CA-C-O	6.30	127.10	120.42
1	dE	67	GLN	O-C-N	-6.30	115.53	122.09
1	1n	53	ASN	CA-CB-CG	-6.30	106.30	112.60
1	dV	200	THR	N-CA-CB	6.30	119.49	110.16
1	es	12	HIS	CE1-NE2-CD2	-6.30	102.69	109.00
1	ew	23	TRP	CA-C-N	6.30	128.50	120.56
1	ew	23	TRP	C-N-CA	6.30	128.50	120.56
1	ex	104	ILE	O-C-N	-6.30	115.34	121.83
1	eD	132	ARG	N-CA-C	6.30	118.15	111.28
1	fp	165	VAL	N-CA-CB	6.30	117.93	110.55
1	fs	60	GLY	CA-C-N	6.30	128.79	122.30
1	fs	60	GLY	C-N-CA	6.30	128.79	122.30
1	fv	178	SER	CA-C-N	6.30	129.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	178	SER	C-N-CA	6.30	129.36	120.28
1	fD	106	GLY	CA-C-N	6.30	129.24	120.29
1	fD	106	GLY	C-N-CA	6.30	129.24	120.29
1	fE	194	ALA	O-C-N	-6.30	114.90	122.65
1	fX	72	THR	N-CA-C	-6.30	104.33	111.14
1	a	143	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	r	200	THR	CA-C-N	6.30	128.50	120.56
1	r	200	THR	C-N-CA	6.30	128.50	120.56
1	L	210	THR	N-CA-C	6.30	118.66	110.53
1	gn	164	TYR	CA-CB-CG	-6.30	102.55	113.90
1	1M	62	HIS	CB-CG-CD2	-6.30	123.01	131.20
1	i5	88	ALA	O-C-N	-6.30	114.26	122.20
1	is	84	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	it	198	CYS	N-CA-C	6.30	118.15	111.28
1	iw	114	GLN	CA-C-O	6.30	127.44	120.82
1	iy	171	THR	CA-C-O	6.30	127.22	119.97
1	j8	67	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	js	6	LEU	N-CA-CB	6.30	121.14	110.49
1	jG	7	GLN	CA-C-O	6.30	125.83	118.90
1	jZ	162	ARG	CA-C-O	6.30	127.44	120.82
1	kL	101	GLY	N-CA-C	6.30	120.27	112.64
1	l1	108	THR	CA-C-O	6.30	126.94	119.56
1	27	192	GLN	CB-CG-CD	6.30	123.32	112.60
1	lw	173	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	lE	213	GLU	N-CA-C	6.30	117.81	111.07
1	lN	39	MET	CG-SD-CE	-6.30	87.03	100.90
1	lO	127	GLY	CA-C-N	6.30	128.63	120.44
1	lO	127	GLY	C-N-CA	6.30	128.63	120.44
1	2i	161	PHE	CA-C-N	6.30	128.73	120.28
1	2i	161	PHE	C-N-CA	6.30	128.73	120.28
1	2w	100	ARG	CA-C-O	-6.30	114.69	121.94
1	34	210	THR	N-CA-CB	6.30	119.25	110.17
1	3u	14	ALA	N-CA-C	6.30	119.06	110.55
1	3v	91	ILE	CB-CA-C	-6.30	103.12	111.13
1	3I	131	LYS	N-CA-C	6.30	118.15	111.28
1	3S	4	GLN	CA-C-O	6.30	126.52	119.78
1	57	126	VAL	N-CA-C	6.30	117.05	110.62
1	5o	196	PRO	CA-C-N	6.30	128.63	120.44
1	5o	196	PRO	C-N-CA	6.30	128.63	120.44
1	5D	82	ARG	CA-C-N	6.30	129.24	120.29
1	5D	82	ARG	C-N-CA	6.30	129.24	120.29
1	5D	97	ARG	NE-CZ-NH1	6.30	127.80	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5T	45	GLU	CA-C-O	6.30	127.79	120.98
1	64	8	GLY	O-C-N	6.30	128.42	122.50
1	6h	189	LEU	N-CA-C	6.30	118.96	111.33
1	6p	107	THR	N-CA-C	-6.30	104.80	113.18
1	6C	7	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	7u	84	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	7I	110	THR	N-CA-CB	6.30	119.37	110.36
1	8b	154	ARG	O-C-N	-6.30	115.80	123.30
1	8d	31	ALA	N-CA-C	6.30	119.94	111.24
1	8G	120	HIS	ND1-CE1-NE2	6.30	114.70	108.40
1	8P	14	ALA	CA-C-N	6.30	129.97	120.77
1	8P	14	ALA	C-N-CA	6.30	129.97	120.77
1	9D	51	ASP	CB-CA-C	-6.30	99.97	110.68
1	9T	194	ALA	N-CA-C	6.30	118.92	110.35
1	ab	159	GLU	O-C-N	-6.30	116.38	121.80
1	aK	130	TYR	CA-C-N	6.30	128.73	120.28
1	aK	130	TYR	C-N-CA	6.30	128.73	120.28
1	aT	103	ASP	CA-C-O	-6.30	114.20	120.82
1	aU	155	GLN	CG-CD-NE2	-6.30	106.94	116.40
1	aW	44	SER	N-CA-CB	6.30	119.39	110.12
1	aX	42	ALA	CA-C-O	6.30	127.23	120.55
1	bN	182	LYS	N-CA-C	6.30	118.96	111.33
1	cT	28	GLU	N-CA-C	6.30	118.23	111.36
1	1h	76	GLU	CA-C-N	6.30	128.97	120.65
1	1h	76	GLU	C-N-CA	6.30	128.97	120.65
1	cY	159	GLU	O-C-N	-6.30	114.36	121.36
1	dh	119	THR	CA-CB-OG1	6.30	119.05	109.60
1	1q	101	GLY	CA-C-O	6.30	127.81	121.00
1	em	89	GLY	CA-C-N	6.30	126.27	119.78
1	em	89	GLY	C-N-CA	6.30	126.27	119.78
1	eN	24	VAL	O-C-N	-6.30	115.76	121.87
1	eY	76	GLU	O-C-N	-6.30	115.44	122.12
1	fC	121	ASN	O-C-N	-6.30	114.11	121.23
1	1y	45	GLU	CA-C-O	6.30	127.23	120.55
1	w	84	HIS	CG-CD2-NE2	6.30	113.50	107.20
1	g9	84	HIS	ND1-CE1-NE2	6.30	114.70	108.40
1	gc	62	HIS	CA-C-N	6.30	128.72	120.28
1	gc	62	HIS	C-N-CA	6.30	128.72	120.28
1	gz	192	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	gA	3	VAL	N-CA-C	6.30	117.30	107.28
1	gG	7	GLN	CA-CB-CG	6.30	126.70	114.10
1	h5	165	VAL	O-C-N	-6.30	115.72	121.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	85	PRO	CB-CA-C	6.30	118.43	111.56
1	h9	84	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	1J	177	ALA	N-CA-C	6.30	119.37	110.23
1	hW	72	THR	CA-C-O	6.30	127.23	120.55
1	ir	74	ASN	CA-CB-CG	-6.30	106.30	112.60
1	iK	65	ALA	O-C-N	-6.30	114.97	122.15
1	iR	24	VAL	O-C-N	6.30	128.32	121.83
1	1S	79	GLU	CA-C-O	-6.30	113.87	120.55
1	iZ	180	GLU	CA-C-O	6.30	127.10	120.42
1	j1	183	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	1T	144	MET	CA-C-O	6.30	127.10	120.42
1	j8	105	ALA	CA-C-O	6.30	126.68	119.18
1	jh	195	ASN	CA-CB-CG	6.30	118.90	112.60
1	jr	12	HIS	CB-CG-ND1	6.30	132.15	122.70
1	jA	1	PRO	CB-CA-C	6.30	122.07	110.10
1	jT	195	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	k4	127	GLY	N-CA-C	-6.30	105.17	112.73
1	k6	120	HIS	CA-CB-CG	6.30	120.10	113.80
1	k7	148	THR	CA-C-N	6.30	130.83	120.94
1	k7	148	THR	C-N-CA	6.30	130.83	120.94
1	kn	46	GLY	N-CA-C	-6.30	107.02	115.21
1	ko	23	TRP	N-CA-C	6.30	117.81	111.07
1	kp	23	TRP	N-CA-C	6.30	118.67	111.11
1	kN	17	PRO	O-C-N	-6.30	114.99	122.24
1	kQ	21	ASN	CA-C-N	6.30	128.72	120.28
1	kQ	21	ASN	C-N-CA	6.30	128.72	120.28
1	l5	89	GLY	CA-C-N	6.30	125.87	119.19
1	l5	89	GLY	C-N-CA	6.30	125.87	119.19
1	la	198	CYS	O-C-N	-6.30	115.44	122.12
1	lj	183	ASN	O-C-N	-6.30	114.52	122.27
1	ln	201	ILE	N-CA-C	6.30	116.47	110.42
1	lI	16	SER	N-CA-C	6.30	118.60	109.84
1	lL	124	ILE	CB-CA-C	6.30	117.21	110.53
1	2q	13	GLN	OE1-CD-NE2	6.30	128.90	122.60
1	2V	32	PHE	CA-C-N	6.30	129.44	120.49
1	2V	32	PHE	C-N-CA	6.30	129.44	120.49
1	2X	30	LYS	O-C-N	-6.30	115.81	122.30
1	3r	147	PRO	CA-C-O	-6.30	114.49	121.23
1	4m	42	ALA	N-CA-C	6.30	118.96	111.71
1	4B	112	GLN	CA-C-N	6.30	128.63	120.44
1	4B	112	GLN	C-N-CA	6.30	128.63	120.44
1	57	52	LEU	N-CA-CB	-6.30	100.86	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5q	78	ALA	CA-C-N	6.30	128.72	120.28
1	5q	78	ALA	C-N-CA	6.30	128.72	120.28
1	5B	142	VAL	N-CA-C	6.30	116.47	110.42
1	6B	188	THR	CA-C-O	6.30	127.42	119.61
1	6Q	138	LEU	CA-C-N	6.30	128.72	120.28
1	6Q	138	LEU	C-N-CA	6.30	128.72	120.28
1	6X	36	VAL	N-CA-C	-6.30	104.36	110.72
1	6Y	4	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	7q	100	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	7r	229	ARG	CA-C-N	6.30	129.19	120.49
1	7r	229	ARG	C-N-CA	6.30	129.19	120.49
1	7x	175	GLU	N-CA-C	6.30	118.15	111.28
1	7X	189	LEU	CA-C-N	6.30	128.72	120.28
1	7X	189	LEU	C-N-CA	6.30	128.72	120.28
1	81	182	LYS	N-CA-C	6.30	118.67	111.11
1	85	133	TRP	O-C-N	-6.30	115.28	122.09
1	86	19	THR	N-CA-CB	6.30	120.05	109.78
1	8d	50	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	8w	138	LEU	N-CA-C	6.30	117.81	111.07
1	8M	106	GLY	CA-C-N	6.30	129.89	120.31
1	8M	106	GLY	C-N-CA	6.30	129.89	120.31
1	8T	21	ASN	CA-C-O	6.30	127.44	120.82
1	8Y	229	ARG	NE-CZ-NH2	6.30	124.87	119.20
1	97	111	LEU	CA-C-N	6.30	128.72	120.28
1	97	111	LEU	C-N-CA	6.30	128.72	120.28
1	9d	48	THR	N-CA-CB	6.30	117.05	109.74
1	9h	215	MET	CA-C-N	6.30	129.89	120.31
1	9h	215	MET	C-N-CA	6.30	129.89	120.31
1	9w	156	GLY	O-C-N	-6.30	115.47	121.77
1	9I	55	MET	N-CA-C	6.30	118.15	111.28
1	an	165	VAL	N-CA-C	6.30	116.47	110.42
1	b6	26	VAL	CA-CB-CG1	6.30	121.11	110.40
1	bv	202	LEU	N-CA-C	6.30	118.15	111.28
1	bJ	229	ARG	N-CA-C	6.30	120.09	109.76
1	bL	168	PHE	N-CA-C	6.30	117.81	111.07
1	bT	121	ASN	CA-CB-CG	6.30	118.90	112.60
1	ca	145	TYR	CA-C-O	-6.30	112.12	119.24
1	cj	54	THR	N-CA-C	-6.30	104.49	111.36
1	co	174	ALA	CA-C-O	6.30	127.13	119.38
1	cx	126	VAL	CA-C-N	6.30	126.93	120.00
1	cx	126	VAL	C-N-CA	6.30	126.93	120.00
1	cB	172	LEU	N-CA-C	6.30	120.67	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	100	ARG	NE-CZ-NH2	6.30	124.87	119.20
1	dd	53	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	dp	72	THR	CA-C-N	6.30	129.37	120.42
1	dp	72	THR	C-N-CA	6.30	129.37	120.42
1	dt	154	ARG	CA-C-N	6.30	129.82	120.87
1	dt	154	ARG	C-N-CA	6.30	129.82	120.87
1	dw	64	ALA	O-C-N	-6.30	115.44	122.12
1	dR	72	THR	CA-CB-CG2	6.30	121.21	110.50
1	dT	89	GLY	CA-C-N	6.30	126.33	119.90
1	dT	89	GLY	C-N-CA	6.30	126.33	119.90
1	dV	151	LEU	CA-C-O	6.30	127.06	119.43
1	e2	92	GLU	N-CA-C	6.30	123.73	109.81
1	e6	192	GLN	O-C-N	-6.30	115.58	122.07
1	e8	176	GLN	CG-CD-NE2	6.30	125.85	116.40
1	eI	113	GLU	N-CA-C	6.30	117.81	111.07
1	eL	219	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	eT	52	LEU	CA-C-N	6.30	129.01	120.44
1	eT	52	LEU	C-N-CA	6.30	129.01	120.44
1	eW	148	THR	N-CA-C	6.30	119.49	110.10
1	fc	80	TRP	CA-C-N	6.30	131.39	120.68
1	fc	80	TRP	C-N-CA	6.30	131.39	120.68
1	fc	203	LYS	CG-CD-CE	6.30	125.79	111.30
1	1y	83	LEU	CA-C-N	6.30	131.31	122.74
1	1y	83	LEU	C-N-CA	6.30	131.31	122.74
1	fP	54	THR	O-C-N	-6.30	115.44	122.12
1	l	89	GLY	O-C-N	-6.30	115.47	121.77
1	s	113	GLU	N-CA-CB	6.30	119.15	110.01
1	C	23	TRP	CB-CG-CD2	6.30	135.62	126.80
1	O	13	GLN	N-CA-CB	6.30	121.33	111.56
1	6	88	ALA	N-CA-C	6.30	119.39	110.50
1	gi	51	ASP	N-CA-C	6.30	118.23	111.36
1	gq	72	THR	N-CA-C	6.30	118.15	111.28
1	gB	203	LYS	CA-C-O	6.30	127.21	119.97
1	gC	142	VAL	CB-CA-C	6.30	120.91	112.22
1	gK	198	CYS	CA-C-N	6.30	128.72	120.28
1	gK	198	CYS	C-N-CA	6.30	128.72	120.28
1	gM	105	ALA	CA-C-N	6.30	132.35	121.07
1	gM	105	ALA	C-N-CA	6.30	132.35	121.07
1	gU	68	MET	CA-C-N	6.30	131.23	120.71
1	gU	68	MET	C-N-CA	6.30	131.23	120.71
1	h6	51	ASP	N-CA-C	6.30	118.15	111.28
1	h9	152	ASP	CA-CB-CG	6.30	118.90	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	74	ASN	N-CA-C	6.30	118.15	111.28
1	hh	59	VAL	O-C-N	-6.30	114.69	122.57
1	hV	181	VAL	CA-C-N	6.30	129.01	120.44
1	hV	181	VAL	C-N-CA	6.30	129.01	120.44
1	ic	62	HIS	CA-CB-CG	-6.30	107.50	113.80
1	1O	18	ARG	N-CA-CB	6.30	119.38	110.12
1	im	206	GLY	CA-C-N	6.30	126.00	119.64
1	im	206	GLY	C-N-CA	6.30	126.00	119.64
1	iw	2	ILE	CB-CA-C	6.30	119.61	110.98
1	iF	86	VAL	N-CA-CB	6.30	117.92	110.55
1	iQ	210	THR	CA-C-N	6.30	128.63	120.44
1	iQ	210	THR	C-N-CA	6.30	128.63	120.44
1	j2	185	MET	CA-C-N	6.30	128.63	120.44
1	j2	185	MET	C-N-CA	6.30	128.63	120.44
1	j5	64	ALA	CA-C-N	6.30	129.24	120.29
1	j5	64	ALA	C-N-CA	6.30	129.24	120.29
1	jt	115	ILE	CA-C-N	6.30	126.93	120.00
1	jt	115	ILE	C-N-CA	6.30	126.93	120.00
1	1X	52	LEU	CA-C-N	6.30	128.63	120.44
1	1X	52	LEU	C-N-CA	6.30	128.63	120.44
1	k7	217	ALA	CA-C-N	6.30	133.57	121.54
1	k7	217	ALA	C-N-CA	6.30	133.57	121.54
1	ke	167	ARG	CA-C-O	6.30	127.23	120.55
1	kJ	46	GLY	CA-C-N	6.30	129.82	120.87
1	kJ	46	GLY	C-N-CA	6.30	129.82	120.87
1	l5	150	ILE	CA-CB-CG1	6.30	121.11	110.40
1	lC	146	SER	CA-C-O	-6.30	113.83	119.75
1	2h	89	GLY	CA-C-N	6.30	127.72	119.84
1	2h	89	GLY	C-N-CA	6.30	127.72	119.84
1	3a	36	VAL	N-CA-CB	6.30	118.34	110.47
1	3l	203	LYS	CA-C-N	6.30	129.24	120.29
1	3l	203	LYS	C-N-CA	6.30	129.24	120.29
1	3A	12	HIS	O-C-N	-6.30	115.67	123.04
1	3C	20	LEU	O-C-N	-6.30	115.44	122.12
1	3E	223	GLY	CA-C-O	6.30	128.23	121.62
1	3K	28	GLU	N-CA-C	6.30	118.95	111.33
1	3S	222	GLY	CA-C-N	6.30	131.76	121.87
1	3S	222	GLY	C-N-CA	6.30	131.76	121.87
1	3W	219	GLN	N-CA-CB	-6.30	101.52	110.46
1	3X	46	GLY	CA-C-N	6.30	130.80	122.30
1	3X	46	GLY	C-N-CA	6.30	130.80	122.30
1	4o	117	TRP	N-CA-C	6.30	118.23	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4r	185	MET	CA-C-N	6.30	129.04	120.54
1	4r	185	MET	C-N-CA	6.30	129.04	120.54
1	4x	227	LYS	N-CA-C	6.30	119.12	110.24
1	4F	84	HIS	CB-CG-ND1	6.30	132.15	122.70
1	4G	134	ILE	O-C-N	-6.30	115.72	121.89
1	4L	28	GLU	CA-C-N	6.30	128.63	120.44
1	4L	28	GLU	C-N-CA	6.30	128.63	120.44
1	53	126	VAL	CA-C-N	6.30	126.81	119.94
1	53	126	VAL	C-N-CA	6.30	126.81	119.94
1	5e	120	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	5g	209	ALA	N-CA-C	6.30	119.75	110.30
1	5i	226	HIS	CA-C-O	6.30	128.13	121.33
1	5q	59	VAL	O-C-N	-6.30	115.76	121.87
1	5s	217	ALA	N-CA-CB	-6.30	98.95	109.28
1	5t	40	PHE	O-C-N	-6.30	115.58	122.07
1	5v	188	THR	CA-C-N	6.30	130.27	120.82
1	5v	188	THR	C-N-CA	6.30	130.27	120.82
1	5D	191	VAL	O-C-N	-6.30	114.70	122.57
1	5P	169	TYR	N-CA-CB	6.30	119.38	110.12
1	67	35	GLU	CA-C-N	6.30	129.09	120.46
1	67	35	GLU	C-N-CA	6.30	129.09	120.46
1	6c	32	PHE	O-C-N	-6.30	114.21	122.59
1	6z	153	ILE	CA-CB-CG1	6.30	121.11	110.40
1	6A	33	SER	CA-C-N	6.30	127.72	119.84
1	6A	33	SER	C-N-CA	6.30	127.72	119.84
1	79	200	THR	CA-C-N	6.30	129.09	120.46
1	79	200	THR	C-N-CA	6.30	129.09	120.46
1	7i	73	ILE	CA-C-O	-6.30	114.49	121.17
1	7V	108	THR	CA-C-O	6.30	126.82	119.32
1	7Y	82	ARG	NH1-CZ-NH2	-6.30	111.11	119.30
1	7Y	120	HIS	CB-CG-ND1	-6.30	113.25	122.70
1	8Z	163	ASP	CA-C-N	6.30	128.63	120.44
1	8Z	163	ASP	C-N-CA	6.30	128.63	120.44
1	92	167	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	96	19	THR	CA-C-N	6.30	129.04	120.54
1	96	19	THR	C-N-CA	6.30	129.04	120.54
1	9c	12	HIS	CB-CG-ND1	6.30	132.15	122.70
1	9k	12	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	9F	18	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	9N	140	LYS	CA-C-O	6.30	127.23	120.55
1	Y	16	SER	N-CA-C	6.30	118.58	110.39
1	a1	108	THR	CA-CB-OG1	6.30	119.05	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a2	93	PRO	CA-C-N	6.30	133.76	121.41
1	a2	93	PRO	C-N-CA	6.30	133.76	121.41
1	az	110	THR	CA-CB-OG1	6.30	119.05	109.60
1	aI	121	ASN	O-C-N	-6.30	113.48	121.29
1	aU	187	GLU	N-CA-C	6.30	118.23	111.36
1	15	27	VAL	CA-C-N	6.30	128.63	120.44
1	15	27	VAL	C-N-CA	6.30	128.63	120.44
1	b6	197	ASP	CA-C-O	6.30	127.19	120.70
1	b7	157	PRO	CA-C-N	6.30	129.20	121.64
1	b7	157	PRO	C-N-CA	6.30	129.20	121.64
1	bb	128	GLU	CA-C-O	-6.30	113.83	120.63
1	bk	186	THR	N-CA-C	6.30	120.23	112.54
1	bm	48	THR	N-CA-CB	6.30	116.61	109.49
1	bo	195	ASN	CB-CA-C	6.30	119.41	109.27
1	bV	178	SER	N-CA-CB	6.30	119.30	110.04
1	c7	203	LYS	O-C-N	6.30	128.80	122.12
1	cm	112	GLN	CA-C-O	6.30	127.22	120.10
1	cz	38	PRO	CA-C-N	6.30	128.72	120.28
1	cz	38	PRO	C-N-CA	6.30	128.72	120.28
1	cX	125	PRO	CB-CA-C	6.30	121.05	112.04
1	cY	40	PHE	CA-CB-CG	6.30	120.10	113.80
1	d9	60	GLY	CA-C-N	6.30	126.08	120.10
1	d9	60	GLY	C-N-CA	6.30	126.08	120.10
1	dh	77	ALA	O-C-N	-6.30	115.58	122.07
1	di	81	ASP	O-C-N	-6.30	114.85	122.22
1	dp	39	MET	CA-C-O	6.30	127.23	120.55
1	dx	4	GLN	CB-CA-C	6.30	119.00	110.94
1	dB	201	ILE	O-C-N	-6.30	115.76	121.87
1	e4	222	GLY	N-CA-C	6.30	122.42	111.78
1	e8	114	GLN	N-CA-C	6.30	118.95	111.33
1	ec	100	ARG	CA-C-N	6.30	126.97	119.98
1	ec	100	ARG	C-N-CA	6.30	126.97	119.98
1	es	162	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	eB	88	ALA	N-CA-C	6.30	118.66	110.53
1	eJ	70	LYS	CA-C-O	6.30	127.10	120.42
1	f9	113	GLU	CA-C-N	6.30	129.04	120.54
1	f9	113	GLU	C-N-CA	6.30	129.04	120.54
1	fa	84	HIS	CG-CD2-NE2	6.30	113.50	107.20
1	fb	91	ILE	O-C-N	-6.30	115.95	122.63
1	fg	169	TYR	N-CA-C	6.30	118.15	111.28
1	fj	146	SER	CA-C-O	-6.30	114.36	120.97
1	fv	143	ARG	CA-C-N	6.30	129.24	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	143	ARG	C-N-CA	6.30	129.24	120.29
1	fQ	54	THR	CA-CB-CG2	6.30	121.21	110.50
1	g	188	THR	N-CA-CB	6.30	121.14	110.49
1	i	66	MET	N-CA-C	6.30	118.95	111.71
1	E	12	HIS	O-C-N	-6.30	116.04	123.22
1	gh	146	SER	CA-C-O	-6.30	112.27	119.32
1	1C	204	ALA	N-CA-C	6.30	118.14	111.28
1	gs	206	GLY	CA-C-O	-6.30	112.51	121.52
1	gA	23	TRP	CB-CG-CD2	-6.30	117.98	126.80
1	hp	25	LYS	N-CA-C	6.30	118.67	111.11
1	hP	180	GLU	CA-C-N	6.30	129.02	120.77
1	hP	180	GLU	C-N-CA	6.30	129.02	120.77
1	it	195	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	1Q	194	ALA	N-CA-C	6.30	118.16	110.41
1	iH	154	ARG	CD-NE-CZ	-6.30	115.58	124.40
1	j2	74	ASN	OD1-CG-ND2	-6.30	116.30	122.60
1	jh	143	ARG	NE-CZ-NH2	6.30	124.87	119.20
1	kB	194	ALA	N-CA-C	6.30	119.17	110.35
1	kY	71	GLU	CA-C-N	6.30	128.63	120.44
1	kY	71	GLU	C-N-CA	6.30	128.63	120.44
1	26	185	MET	N-CA-C	6.30	117.83	110.97
1	lh	86	VAL	N-CA-CB	-6.30	100.31	110.13
1	lR	191	VAL	N-CA-C	6.30	117.00	111.90
1	2w	15	ILE	CA-C-N	6.30	129.11	120.67
1	2w	15	ILE	C-N-CA	6.30	129.11	120.67
1	33	37	ILE	CA-C-O	6.30	123.50	118.71
1	43	200	THR	CA-C-N	6.30	129.09	120.46
1	43	200	THR	C-N-CA	6.30	129.09	120.46
1	4h	226	HIS	CG-CD2-NE2	6.30	113.50	107.20
1	59	195	ASN	CA-CB-CG	-6.30	106.30	112.60
1	6i	69	LEU	N-CA-CB	6.30	119.20	110.07
1	6E	82	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	7P	115	ILE	CA-C-N	6.30	127.11	119.99
1	7P	115	ILE	C-N-CA	6.30	127.11	119.99
1	9V	154	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	9V	214	MET	CA-C-N	6.30	129.01	120.38
1	9V	214	MET	C-N-CA	6.30	129.01	120.38
1	a4	120	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	at	226	HIS	CB-CG-CD2	-6.30	123.01	131.20
1	bo	63	GLN	N-CA-C	6.30	118.14	111.28
1	1d	100	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	cJ	104	ILE	CB-CA-C	6.30	120.03	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d9	229	ARG	CD-NE-CZ	6.30	133.22	124.40
1	e0	120	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
1	eq	176	GLN	CA-C-N	6.30	130.26	120.75
1	eq	176	GLN	C-N-CA	6.30	130.26	120.75
1	eC	161	PHE	N-CA-C	6.30	118.14	111.28
1	eF	24	VAL	CA-CB-CG1	-6.30	99.69	110.40
1	f0	200	THR	N-CA-C	6.30	118.95	111.71
1	f1	229	ARG	NE-CZ-NH2	6.30	124.87	119.20
1	fK	229	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	fO	136	LEU	N-CA-CB	6.30	119.14	110.01
1	g2	229	ARG	CA-C-N	6.30	128.94	120.50
1	g2	229	ARG	C-N-CA	6.30	128.94	120.50
1	w	176	GLN	CA-C-O	6.30	127.01	120.40
1	3	25	LYS	CA-C-O	6.30	127.21	119.97
1	H	75	GLU	CA-C-N	6.30	129.23	120.29
1	H	75	GLU	C-N-CA	6.30	129.23	120.29
1	gz	146	SER	N-CA-C	6.30	118.59	109.84
1	gO	185	MET	N-CA-C	6.30	118.14	111.28
1	ho	132	ARG	CA-C-O	-6.30	113.83	120.63
1	hC	165	VAL	CB-CA-C	-6.30	103.64	112.14
1	hD	210	THR	CA-CB-OG1	6.30	119.05	109.60
1	hN	191	VAL	CA-C-N	6.30	129.88	120.31
1	hN	191	VAL	C-N-CA	6.30	129.88	120.31
1	hZ	119	THR	N-CA-CB	6.30	119.91	110.53
1	ii	47	ALA	CA-C-O	6.30	128.16	120.92
1	je	32	PHE	CB-CA-C	-6.30	102.21	112.03
1	jh	25	LYS	CA-C-N	6.30	128.72	120.60
1	jh	25	LYS	C-N-CA	6.30	128.72	120.60
1	jr	194	ALA	O-C-N	-6.30	115.07	122.81
1	jL	162	ARG	CA-C-N	6.30	128.72	120.28
1	jL	162	ARG	C-N-CA	6.30	128.72	120.28
1	jX	133	TRP	CA-C-N	6.30	128.49	120.56
1	jX	133	TRP	C-N-CA	6.30	128.49	120.56
1	k3	135	ILE	CA-C-O	6.30	127.50	120.95
1	22	196	PRO	N-CA-C	-6.30	105.32	113.57
1	kM	133	TRP	CA-C-O	-6.30	113.88	120.55
1	kQ	84	HIS	CB-CA-C	-6.30	102.91	110.15
1	kU	188	THR	N-CA-CB	6.30	119.14	110.01
1	kV	230	VAL	O-C-N	-6.30	116.25	122.99
1	lj	79	GLU	N-CA-C	6.30	118.22	111.36
1	lJ	226	HIS	ND1-CE1-NE2	6.30	114.70	108.40
1	2h	42	ALA	N-CA-C	6.30	118.67	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2H	16	SER	N-CA-CB	6.30	119.02	110.14
1	35	78	ALA	CA-C-N	6.30	128.72	120.28
1	35	78	ALA	C-N-CA	6.30	128.72	120.28
1	3O	74	ASN	CA-C-N	6.30	129.00	120.44
1	3O	74	ASN	C-N-CA	6.30	129.00	120.44
1	41	177	ALA	O-C-N	-6.30	115.55	123.17
1	4l	222	GLY	CA-C-N	6.30	131.75	121.87
1	4l	222	GLY	C-N-CA	6.30	131.75	121.87
1	4m	84	HIS	CB-CG-CD2	-6.30	123.01	131.20
1	4v	38	PRO	CA-C-N	6.30	129.23	120.29
1	4v	38	PRO	C-N-CA	6.30	129.23	120.29
1	4v	133	TRP	CB-CG-CD2	-6.30	117.99	126.80
1	4H	140	LYS	CA-C-O	-6.30	113.83	120.63
1	4U	110	THR	CA-CB-OG1	6.30	119.05	109.60
1	5a	40	PHE	O-C-N	-6.30	115.58	122.07
1	5c	137	GLY	CA-C-O	-6.30	113.98	120.66
1	5s	131	LYS	CA-C-N	6.30	128.63	120.44
1	5s	131	LYS	C-N-CA	6.30	128.63	120.44
1	69	200	THR	CA-C-O	6.30	127.22	120.55
1	6j	219	GLN	CB-CA-C	6.30	119.70	110.26
1	6k	141	ILE	N-CA-CB	6.30	120.02	110.58
1	6l	155	GLN	OE1-CD-NE2	-6.30	116.30	122.60
1	6n	70	LYS	N-CA-C	6.30	117.81	111.07
1	6T	86	VAL	CA-C-N	6.30	131.09	122.34
1	6T	86	VAL	C-N-CA	6.30	131.09	122.34
1	76	219	GLN	CA-C-N	6.30	130.70	122.26
1	76	219	GLN	C-N-CA	6.30	130.70	122.26
1	7a	36	VAL	CA-C-N	6.30	125.37	120.33
1	7a	36	VAL	C-N-CA	6.30	125.37	120.33
1	7h	91	ILE	O-C-N	-6.30	116.92	123.03
1	7s	53	ASN	CA-CB-CG	-6.30	106.30	112.60
1	7x	173	ARG	CD-NE-CZ	6.30	133.22	124.40
1	7D	3	VAL	O-C-N	-6.30	116.05	123.04
1	84	162	ARG	NE-CZ-NH2	-6.30	113.53	119.20
1	8m	85	PRO	CA-C-N	6.30	131.88	122.75
1	8m	85	PRO	C-N-CA	6.30	131.88	122.75
1	8K	26	VAL	O-C-N	-6.30	115.35	121.90
1	8M	224	PRO	N-CA-C	6.30	121.12	111.11
1	9v	214	MET	N-CA-C	6.30	118.22	111.36
1	9N	191	VAL	CA-C-N	6.30	129.04	120.54
1	9N	191	VAL	C-N-CA	6.30	129.04	120.54
1	9W	63	GLN	N-CA-C	6.30	120.70	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	140	LYS	N-CA-C	6.30	118.95	111.33
1	9Y	72	THR	CA-CB-CG2	6.30	121.20	110.50
1	ab	51	ASP	N-CA-C	6.30	118.14	111.28
1	ae	37	ILE	N-CA-CB	6.30	115.36	110.45
1	ai	185	MET	N-CA-C	6.30	118.14	111.28
1	ak	142	VAL	CA-C-N	6.30	128.63	120.44
1	ak	142	VAL	C-N-CA	6.30	128.63	120.44
1	aG	168	PHE	CA-CB-CG	-6.30	107.50	113.80
1	b1	7	GLN	CG-CD-OE1	6.30	133.39	120.80
1	b4	74	ASN	CA-C-N	6.30	129.04	120.54
1	b4	74	ASN	C-N-CA	6.30	129.04	120.54
1	bj	209	ALA	N-CA-C	6.30	119.17	110.35
1	bm	143	ARG	CA-C-N	6.30	128.72	120.28
1	bm	143	ARG	C-N-CA	6.30	128.72	120.28
1	bn	14	ALA	N-CA-CB	-6.30	101.10	110.17
1	bz	221	VAL	N-CA-C	-6.30	99.15	108.85
1	bG	51	ASP	CA-CB-CG	-6.30	106.30	112.60
1	bK	187	GLU	CA-C-N	6.30	129.00	120.44
1	bK	187	GLU	C-N-CA	6.30	129.00	120.44
1	cg	78	ALA	N-CA-C	6.30	117.94	111.14
1	cq	193	ASN	CA-CB-CG	-6.30	106.30	112.60
1	cI	101	GLY	CA-C-N	6.30	128.72	120.28
1	cI	101	GLY	C-N-CA	6.30	128.72	120.28
1	dk	209	ALA	CA-C-O	6.30	128.22	121.55
1	dn	82	ARG	NE-CZ-NH1	6.30	127.80	121.50
1	ec	124	ILE	O-C-N	-6.30	116.55	121.46
1	ej	121	ASN	CA-CB-CG	-6.30	106.30	112.60
1	1t	198	CYS	O-C-N	-6.30	114.97	122.15
1	f1	100	ARG	N-CA-C	-6.30	100.18	109.81
1	f3	46	GLY	O-C-N	6.30	127.61	122.51
1	fG	16	SER	N-CA-C	-6.30	101.72	109.65
1	fK	67	GLN	CB-CA-C	-6.30	101.00	110.88
1	1z	23	TRP	CE3-CZ3-CH2	6.30	129.29	121.10
1	fO	117	TRP	CA-C-N	6.30	128.62	120.44
1	fO	117	TRP	C-N-CA	6.30	128.62	120.44
1	fW	186	THR	CA-CB-CG2	6.30	121.20	110.50
1	fY	214	MET	N-CA-C	6.30	117.81	111.07
1	fZ	145	TYR	CA-C-O	6.30	126.67	119.18
1	i	123	PRO	N-CA-CB	6.30	108.94	103.27
1	q	173	ARG	CA-C-O	-6.30	114.22	120.70
1	s	194	ALA	O-C-N	-6.30	115.89	122.94
1	v	201	ILE	O-C-N	-6.30	115.76	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	119	THR	CA-C-O	6.29	126.33	119.15
1	hQ	221	VAL	CA-CB-CG1	-6.29	99.70	110.40
1	if	25	LYS	O-C-N	-6.29	115.45	122.12
1	iP	33	SER	CA-C-N	6.29	125.99	119.82
1	iP	33	SER	C-N-CA	6.29	125.99	119.82
1	iW	28	GLU	N-CA-C	6.29	118.14	111.28
1	iY	121	ASN	N-CA-C	6.29	120.69	108.85
1	j4	224	PRO	CA-C-O	-6.29	114.46	121.32
1	jt	199	LYS	CA-C-O	6.29	127.21	119.97
1	kb	24	VAL	N-CA-C	6.29	117.08	110.72
1	ki	44	SER	N-CA-CB	6.29	119.81	110.49
1	kA	69	LEU	O-C-N	-6.29	115.59	122.07
1	24	75	GLU	CA-C-O	6.29	127.22	120.55
1	ls	87	HIS	CG-CD2-NE2	6.29	113.50	107.20
1	2G	23	TRP	N-CA-C	6.29	118.14	111.28
1	2S	74	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	2S	208	ALA	CA-C-N	6.29	130.25	120.75
1	2S	208	ALA	C-N-CA	6.29	130.25	120.75
1	48	13	GLN	CG-CD-NE2	6.29	125.84	116.40
1	4e	90	PRO	N-CA-C	6.29	125.44	112.47
1	4x	210	THR	CA-C-N	6.29	128.72	120.28
1	4x	210	THR	C-N-CA	6.29	128.72	120.28
1	6G	226	HIS	CA-CB-CG	-6.29	107.50	113.80
1	70	178	SER	N-CA-C	6.29	118.45	110.33
1	71	21	ASN	CA-CB-CG	6.29	118.89	112.60
1	7k	125	PRO	CA-C-N	6.29	129.41	120.53
1	7k	125	PRO	C-N-CA	6.29	129.41	120.53
1	7E	136	LEU	CA-C-N	6.29	126.97	119.98
1	7E	136	LEU	C-N-CA	6.29	126.97	119.98
1	8C	50	GLN	N-CA-C	6.29	118.14	111.28
1	8D	198	CYS	O-C-N	-6.29	115.45	122.12
1	9v	70	LYS	CA-C-O	-6.29	113.88	120.55
1	aY	59	VAL	CB-CA-C	-6.29	103.72	111.08
1	bM	135	ILE	CB-CA-C	6.29	120.64	112.14
1	bO	62	HIS	ND1-CG-CD2	6.29	112.39	106.10
1	bQ	11	VAL	CA-C-O	6.29	127.03	120.36
1	c0	97	ARG	CA-C-N	6.29	129.21	120.65
1	c0	97	ARG	C-N-CA	6.29	129.21	120.65
1	cq	181	VAL	N-CA-C	6.29	117.08	110.72
1	cZ	145	TYR	CA-C-O	6.29	126.90	119.28
1	dP	216	THR	N-CA-CB	6.29	120.12	110.61
1	eF	167	ARG	N-CA-C	6.29	118.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	186	THR	CA-C-N	6.29	129.00	120.38
1	eR	186	THR	C-N-CA	6.29	129.00	120.38
1	f3	181	VAL	CA-C-N	6.29	129.04	120.54
1	f3	181	VAL	C-N-CA	6.29	129.04	120.54
1	1y	134	ILE	CA-C-O	-6.29	114.50	121.05
1	S	190	LEU	N-CA-C	6.29	117.81	111.07
1	gj	130	TYR	CA-C-N	6.29	128.71	120.28
1	gj	130	TYR	C-N-CA	6.29	128.71	120.28
1	gk	84	HIS	CA-C-N	6.29	126.31	119.89
1	gk	84	HIS	C-N-CA	6.29	126.31	119.89
1	gs	162	ARG	N-CA-C	6.29	118.95	111.71
1	gK	108	THR	CA-C-O	6.29	126.92	119.56
1	gM	97	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	gM	190	LEU	N-CA-C	6.29	118.66	111.11
1	gN	139	ASN	CA-C-N	6.29	128.62	120.44
1	gN	139	ASN	C-N-CA	6.29	128.62	120.44
1	gX	25	LYS	N-CA-C	6.29	118.14	111.28
1	hg	192	GLN	O-C-N	-6.29	115.59	122.07
1	ho	12	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	hu	79	GLU	CA-C-N	6.29	129.00	120.38
1	hu	79	GLU	C-N-CA	6.29	129.00	120.38
1	hx	35	GLU	CA-C-N	6.29	129.36	120.42
1	hx	35	GLU	C-N-CA	6.29	129.36	120.42
1	hy	2	ILE	O-C-N	-6.29	116.26	122.93
1	hK	33	SER	O-C-N	-6.29	115.75	121.66
1	hN	120	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	1O	50	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	ip	120	HIS	N-CA-C	6.29	119.11	110.24
1	is	76	GLU	N-CA-CB	6.29	119.47	110.16
1	iG	84	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	iR	131	LYS	O-C-N	-6.29	115.59	122.07
1	1S	24	VAL	CA-C-N	6.29	129.00	120.38
1	1S	24	VAL	C-N-CA	6.29	129.00	120.38
1	j1	199	LYS	N-CA-C	6.29	118.14	111.28
1	j8	37	ILE	CA-C-N	6.29	125.71	118.85
1	j8	37	ILE	C-N-CA	6.29	125.71	118.85
1	jf	95	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	jy	121	ASN	CB-CA-C	6.29	117.39	110.15
1	jE	74	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	jV	209	ALA	N-CA-C	6.29	124.21	110.80
1	k6	66	MET	N-CA-C	6.29	118.14	111.28
1	kj	156	GLY	O-C-N	-6.29	115.48	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	145	TYR	CA-C-N	6.29	129.41	122.74
1	kn	145	TYR	C-N-CA	6.29	129.41	122.74
1	l7	16	SER	CA-C-N	6.29	125.86	119.19
1	l7	16	SER	C-N-CA	6.29	125.86	119.19
1	l8	171	THR	CA-C-N	6.29	128.62	120.44
1	l8	171	THR	C-N-CA	6.29	128.62	120.44
1	2h	65	ALA	CA-C-N	6.29	128.71	120.28
1	2h	65	ALA	C-N-CA	6.29	128.71	120.28
1	2n	80	TRP	CG-CD2-CE3	-6.29	127.61	133.90
1	2s	48	THR	CA-C-O	-6.29	114.10	120.96
1	2B	5	ASN	O-C-N	-6.29	114.06	122.74
1	2M	144	MET	CG-SD-CE	-6.29	87.06	100.90
1	2V	182	LYS	CA-C-N	6.29	128.71	120.28
1	2V	182	LYS	C-N-CA	6.29	128.71	120.28
1	2W	103	ASP	N-CA-C	6.29	117.81	111.07
1	38	226	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	3p	211	LEU	CA-C-N	6.29	128.71	120.28
1	3p	211	LEU	C-N-CA	6.29	128.71	120.28
1	3N	10	MET	CG-SD-CE	-6.29	87.06	100.90
1	3R	89	GLY	CA-C-N	6.29	127.71	119.84
1	3R	89	GLY	C-N-CA	6.29	127.71	119.84
1	40	156	GLY	CA-C-N	6.29	125.86	119.19
1	40	156	GLY	C-N-CA	6.29	125.86	119.19
1	41	103	ASP	CA-C-N	6.29	129.08	120.46
1	41	103	ASP	C-N-CA	6.29	129.08	120.46
1	4b	35	GLU	CA-C-N	6.29	130.52	121.02
1	4b	35	GLU	C-N-CA	6.29	130.52	121.02
1	4u	150	ILE	N-CA-C	6.29	117.04	110.62
1	4V	197	ASP	CA-CB-CG	6.29	118.89	112.60
1	4Y	200	THR	CA-C-N	6.29	128.49	120.56
1	4Y	200	THR	C-N-CA	6.29	128.49	120.56
1	5l	196	PRO	CA-C-N	6.29	128.71	120.28
1	5l	196	PRO	C-N-CA	6.29	128.71	120.28
1	5y	183	ASN	N-CA-CB	-6.29	100.87	110.12
1	5Y	53	ASN	CA-CB-CG	-6.29	106.31	112.60
1	6g	97	ARG	N-CA-C	-6.29	101.17	110.48
1	6h	23	TRP	CB-CG-CD2	6.29	135.61	126.80
1	6j	221	VAL	CA-C-N	6.29	129.26	121.83
1	6j	221	VAL	C-N-CA	6.29	129.26	121.83
1	6G	189	LEU	CA-C-N	6.29	128.62	120.44
1	6G	189	LEU	C-N-CA	6.29	128.62	120.44
1	7n	141	ILE	CA-C-N	6.29	128.49	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7n	141	ILE	C-N-CA	6.29	128.49	120.56
1	7A	173	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	7O	84	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	8t	164	TYR	CB-CA-C	6.29	120.76	110.88
1	8z	36	VAL	CA-C-N	6.29	125.36	120.33
1	8z	36	VAL	C-N-CA	6.29	125.36	120.33
1	8I	152	ASP	CB-CA-C	6.29	121.33	110.94
1	8N	166	ASP	N-CA-C	6.29	117.80	111.07
1	9d	50	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	9d	226	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	9h	10	MET	CA-C-N	6.29	131.63	122.69
1	9h	10	MET	C-N-CA	6.29	131.63	122.69
1	9p	173	ARG	CA-C-N	6.29	129.23	120.29
1	9p	173	ARG	C-N-CA	6.29	129.23	120.29
1	9w	106	GLY	CA-C-O	6.29	125.76	118.96
1	9A	178	SER	CA-C-N	6.29	129.00	120.38
1	9A	178	SER	C-N-CA	6.29	129.00	120.38
1	9B	60	GLY	O-C-N	-6.29	114.52	122.70
1	9R	199	LYS	CA-C-N	6.29	128.62	120.44
1	9R	199	LYS	C-N-CA	6.29	128.62	120.44
1	9S	193	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	Z	203	LYS	N-CA-C	6.29	118.22	111.36
1	a1	121	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	a2	18	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	a9	152	ASP	CA-C-O	6.29	127.02	119.59
1	aO	81	ASP	CA-C-O	6.29	127.23	120.24
1	aP	221	VAL	CA-C-O	6.29	126.53	119.92
1	aT	90	PRO	N-CA-C	6.29	121.52	111.26
1	aU	4	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	aZ	21	ASN	CA-C-N	6.29	128.71	120.28
1	aZ	21	ASN	C-N-CA	6.29	128.71	120.28
1	b0	167	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	b1	48	THR	CA-C-N	6.29	127.71	119.84
1	b1	48	THR	C-N-CA	6.29	127.71	119.84
1	ba	193	ASN	CA-C-N	6.29	129.65	120.71
1	ba	193	ASN	C-N-CA	6.29	129.65	120.71
1	bp	31	ALA	CB-CA-C	6.29	121.14	111.39
1	br	44	SER	O-C-N	-6.29	114.76	122.25
1	bu	175	GLU	N-CA-C	6.29	119.40	109.96
1	bZ	229	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	cl	166	ASP	CB-CA-C	6.29	120.88	110.81
1	cz	178	SER	N-CA-C	6.29	119.11	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1f	83	LEU	N-CA-C	6.29	118.22	111.36
1	cG	84	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	d0	94	GLY	CA-C-O	6.29	125.43	119.20
1	1i	176	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	da	41	SER	CA-C-N	6.29	128.71	120.28
1	da	41	SER	C-N-CA	6.29	128.71	120.28
1	ep	105	ALA	N-CA-CB	-6.29	100.81	110.44
1	eq	167	ARG	NH1-CZ-NH2	-6.29	111.12	119.30
1	er	167	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	ev	48	THR	CA-C-O	-6.29	114.73	121.27
1	1t	27	VAL	N-CA-C	6.29	116.46	110.42
1	ff	116	GLY	N-CA-C	6.29	120.28	112.73
1	1w	162	ARG	NH1-CZ-NH2	-6.29	111.12	119.30
1	fr	9	GLN	CA-C-O	6.29	129.51	120.51
1	fC	13	GLN	CA-C-N	6.29	130.25	120.75
1	fC	13	GLN	C-N-CA	6.29	130.25	120.75
1	1	170	LYS	N-CA-C	6.29	118.14	111.28
1	q	31	ALA	N-CA-C	6.29	120.96	113.16
1	2	75	GLU	CA-C-N	6.29	128.71	120.28
1	2	75	GLU	C-N-CA	6.29	128.71	120.28
1	M	131	LYS	N-CA-C	6.29	118.94	111.33
1	S	54	THR	O-C-N	-6.29	115.29	122.09
1	T	117	TRP	O-C-N	-6.29	115.45	122.12
1	gy	12	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	1E	78	ALA	CB-CA-C	6.29	120.76	110.88
1	gK	62	HIS	CB-CG-ND1	-6.29	113.26	122.70
1	1H	228	ALA	CA-C-O	6.29	129.23	121.81
1	hn	133	TRP	CA-C-N	6.29	128.49	120.56
1	hn	133	TRP	C-N-CA	6.29	128.49	120.56
1	hB	2	ILE	O-C-N	-6.29	116.26	122.99
1	i1	184	TRP	CG-CD2-CE3	6.29	140.19	133.90
1	ie	36	VAL	O-C-N	-6.29	115.75	121.91
1	ir	170	LYS	N-CA-C	6.29	117.80	111.07
1	iF	79	GLU	CA-C-N	6.29	128.71	120.28
1	iF	79	GLU	C-N-CA	6.29	128.71	120.28
1	iW	188	THR	CA-C-N	6.29	129.87	120.31
1	iW	188	THR	C-N-CA	6.29	129.87	120.31
1	1T	37	ILE	CA-C-O	-6.29	111.52	119.95
1	ji	13	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	1V	226	HIS	CA-C-N	6.29	132.40	122.21
1	1V	226	HIS	C-N-CA	6.29	132.40	122.21
1	jS	18	ARG	NE-CZ-NH2	6.29	124.86	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	157	PRO	O-C-N	-6.29	114.15	122.64
1	kl	91	ILE	O-C-N	6.29	128.44	122.97
1	kn	189	LEU	N-CA-C	6.29	118.14	111.28
1	kt	28	GLU	N-CA-C	6.29	118.94	111.33
1	kH	123	PRO	N-CA-C	6.29	121.11	111.11
1	kO	18	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	lu	141	ILE	CA-C-N	6.29	129.08	120.46
1	lu	141	ILE	C-N-CA	6.29	129.08	120.46
1	lE	113	GLU	N-CA-CB	6.29	119.37	110.12
1	lK	116	GLY	N-CA-C	6.29	120.28	112.73
1	2b	55	MET	N-CA-C	6.29	118.70	111.02
1	2g	208	ALA	CA-C-N	6.29	129.81	120.87
1	2g	208	ALA	C-N-CA	6.29	129.81	120.87
1	2H	113	GLU	CA-C-N	6.29	128.71	120.28
1	2H	113	GLU	C-N-CA	6.29	128.71	120.28
1	2L	221	VAL	CA-C-N	6.29	126.32	120.34
1	2L	221	VAL	C-N-CA	6.29	126.32	120.34
1	2Q	98	GLU	CA-C-N	6.29	128.44	120.51
1	2Q	98	GLU	C-N-CA	6.29	128.44	120.51
1	2V	120	HIS	N-CA-C	6.29	118.45	110.33
1	3a	78	ALA	CA-C-N	6.29	128.71	120.28
1	3a	78	ALA	C-N-CA	6.29	128.71	120.28
1	3j	156	GLY	O-C-N	-6.29	116.76	122.42
1	3z	100	ARG	O-C-N	-6.29	115.54	122.84
1	3E	147	PRO	N-CA-CB	6.29	109.86	103.25
1	3O	1	PRO	CB-CA-C	6.29	122.05	110.10
1	3O	226	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	3R	53	ASN	CA-C-N	6.29	128.71	120.28
1	3R	53	ASN	C-N-CA	6.29	128.71	120.28
1	3S	99	PRO	CA-C-O	-6.29	114.67	121.27
1	45	209	ALA	CA-C-N	6.29	130.07	120.82
1	45	209	ALA	C-N-CA	6.29	130.07	120.82
1	4a	176	GLN	N-CA-CB	-6.29	100.98	110.73
1	4b	4	GLN	CG-CD-OE1	6.29	133.38	120.80
1	4S	146	SER	O-C-N	-6.29	115.70	121.30
1	5h	24	VAL	CB-CA-C	6.29	120.63	112.14
1	64	184	TRP	N-CA-C	6.29	118.22	111.36
1	6s	7	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	6w	84	HIS	CA-CB-CG	6.29	120.09	113.80
1	6Q	48	THR	CA-C-N	6.29	125.78	119.24
1	6Q	48	THR	C-N-CA	6.29	125.78	119.24
1	6W	186	THR	CA-C-N	6.29	129.22	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6W	186	THR	C-N-CA	6.29	129.22	120.29
1	6W	204	ALA	CA-C-N	6.29	128.62	120.44
1	6W	204	ALA	C-N-CA	6.29	128.62	120.44
1	75	110	THR	N-CA-CB	6.29	119.86	110.29
1	79	220	GLY	CA-C-N	6.29	131.09	120.64
1	79	220	GLY	C-N-CA	6.29	131.09	120.64
1	7e	18	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	7e	183	ASN	CA-C-O	6.29	127.22	120.55
1	7k	85	PRO	CA-C-O	-6.29	114.46	121.32
1	7m	47	ALA	N-CA-C	6.29	119.47	110.10
1	7P	62	HIS	CA-C-N	6.29	128.71	120.28
1	7P	62	HIS	C-N-CA	6.29	128.71	120.28
1	7S	101	GLY	CA-C-N	6.29	129.87	120.31
1	7S	101	GLY	C-N-CA	6.29	129.87	120.31
1	8e	23	TRP	N-CA-C	6.29	118.66	111.11
1	8u	90	PRO	CA-C-N	6.29	133.29	121.97
1	8u	90	PRO	C-N-CA	6.29	133.29	121.97
1	8x	11	VAL	N-CA-CB	-6.29	103.25	110.49
1	8B	95	GLN	CA-C-O	6.29	128.05	120.81
1	8Z	72	THR	O-C-N	-6.29	115.59	122.07
1	9h	45	GLU	CA-C-O	-6.29	114.97	120.88
1	9k	173	ARG	NE-CZ-NH2	6.29	124.86	119.20
1	9W	201	ILE	N-CA-C	6.29	116.97	110.36
1	a2	42	ALA	CA-C-O	-6.29	113.75	120.42
1	11	31	ALA	N-CA-C	6.29	124.20	110.80
1	am	87	HIS	CB-CG-CD2	-6.29	123.02	131.20
1	aL	123	PRO	N-CD-CG	6.29	112.64	103.20
1	aP	217	ALA	N-CA-C	6.29	118.91	110.35
1	aX	164	TYR	CA-C-N	6.29	128.49	120.56
1	aX	164	TYR	C-N-CA	6.29	128.49	120.56
1	bt	45	GLU	N-CA-CB	6.29	119.40	109.71
1	bC	18	ARG	N-CA-C	-6.29	104.50	111.36
1	bN	32	PHE	N-CA-C	6.29	120.23	111.74
1	bS	54	THR	O-C-N	-6.29	115.55	122.09
1	bX	188	THR	CA-C-N	6.29	128.71	120.28
1	bX	188	THR	C-N-CA	6.29	128.71	120.28
1	1c	167	ARG	CG-CD-NE	-6.29	98.16	112.00
1	cg	230	VAL	CA-C-O	6.29	127.03	120.36
1	cv	189	LEU	CA-C-N	6.29	128.62	120.44
1	cv	189	LEU	C-N-CA	6.29	128.62	120.44
1	cy	207	PRO	N-CA-C	-6.29	105.78	114.27
1	cH	30	LYS	N-CA-C	-6.29	105.24	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	122	PRO	CA-C-N	-6.29	114.14	120.31
1	dn	122	PRO	C-N-CA	-6.29	114.14	120.31
1	dn	186	THR	CA-C-N	6.29	128.71	120.28
1	dn	186	THR	C-N-CA	6.29	128.71	120.28
1	dR	97	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	1n	122	PRO	CA-C-N	6.29	127.70	119.84
1	1n	122	PRO	C-N-CA	6.29	127.70	119.84
1	dZ	91	ILE	O-C-N	-6.29	116.14	122.62
1	e4	147	PRO	N-CA-C	6.29	125.43	112.47
1	el	79	GLU	O-C-N	6.29	128.63	122.09
1	eo	229	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	eu	106	GLY	CA-C-N	6.29	128.62	120.44
1	eu	106	GLY	C-N-CA	6.29	128.62	120.44
1	eD	120	HIS	CG-CD2-NE2	6.29	113.49	107.20
1	1s	179	GLN	N-CA-CB	6.29	119.50	110.06
1	eR	27	VAL	N-CA-C	6.29	117.04	110.62
1	f2	203	LYS	O-C-N	-6.29	115.59	122.07
1	fg	189	LEU	CB-CA-C	-6.29	100.35	110.79
1	fI	226	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	e	75	GLU	N-CA-C	6.29	119.12	111.82
1	o	37	ILE	CA-C-N	6.29	127.70	119.84
1	o	37	ILE	C-N-CA	6.29	127.70	119.84
1	F	77	ALA	CA-C-N	6.29	128.62	120.44
1	F	77	ALA	C-N-CA	6.29	128.62	120.44
1	V	179	GLN	CA-C-O	6.29	127.22	120.55
1	X	153	ILE	N-CA-CB	6.29	119.05	111.31
1	9	227	LYS	CA-C-N	6.29	129.64	120.71
1	9	227	LYS	C-N-CA	6.29	129.64	120.71
1	gm	175	GLU	CA-C-O	6.29	128.22	121.55
1	gF	88	ALA	O-C-N	6.29	128.55	122.07
1	gU	124	ILE	O-C-N	-6.29	117.41	121.37
1	1G	154	ARG	O-C-N	-6.29	115.03	122.96
1	ha	121	ASN	CA-CB-CG	-6.29	106.31	112.60
1	hg	212	GLU	O-C-N	-6.29	115.55	122.09
1	hj	142	VAL	N-CA-CB	6.29	117.91	110.55
1	hr	114	GLN	CA-C-N	6.29	128.49	120.56
1	hr	114	GLN	C-N-CA	6.29	128.49	120.56
1	1P	154	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	iu	148	THR	CA-C-O	6.29	127.79	120.49
1	iQ	39	MET	O-C-N	-6.29	115.45	122.12
1	iT	15	ILE	CA-C-O	6.29	128.59	121.11
1	j1	100	ARG	CA-C-O	6.29	128.99	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jH	66	MET	N-CA-CB	6.29	119.47	110.16
1	k4	224	PRO	N-CA-C	6.29	125.43	112.47
1	kE	11	VAL	O-C-N	-6.29	116.58	123.18
1	kK	4	GLN	N-CA-C	6.29	119.47	110.10
1	l8	98	GLU	N-CA-C	-6.29	101.86	109.72
1	li	29	GLU	O-C-N	-6.29	115.59	122.38
1	2K	80	TRP	CA-C-N	6.29	129.87	120.31
1	2K	80	TRP	C-N-CA	6.29	129.87	120.31
1	3U	51	ASP	CA-C-N	6.29	128.71	120.28
1	3U	51	ASP	C-N-CA	6.29	128.71	120.28
1	43	66	MET	CG-SD-CE	-6.29	87.06	100.90
1	4c	203	LYS	CA-C-N	6.29	128.71	120.28
1	4c	203	LYS	C-N-CA	6.29	128.71	120.28
1	4A	223	GLY	O-C-N	-6.29	115.48	121.77
1	4F	26	VAL	CA-CB-CG1	6.29	121.09	110.40
1	4R	98	GLU	CA-C-N	6.29	126.24	119.76
1	4R	98	GLU	C-N-CA	6.29	126.24	119.76
1	4S	27	VAL	N-CA-C	6.29	117.03	110.62
1	4X	62	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	57	91	ILE	O-C-N	-6.29	115.96	122.63
1	5b	88	ALA	CA-C-N	6.29	131.75	121.87
1	5b	88	ALA	C-N-CA	6.29	131.75	121.87
1	6k	204	ALA	CA-C-N	6.29	129.00	120.38
1	6k	204	ALA	C-N-CA	6.29	129.00	120.38
1	6W	88	ALA	N-CA-C	-6.29	99.51	109.07
1	73	99	PRO	O-C-N	-6.29	114.15	122.64
1	90	7	GLN	CA-C-O	6.29	126.71	119.35
1	9d	215	MET	N-CA-C	-6.29	105.76	113.50
1	9o	214	MET	CA-C-N	6.29	128.71	120.28
1	9o	214	MET	C-N-CA	6.29	128.71	120.28
1	9R	97	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	aL	178	SER	CA-C-O	6.29	128.22	121.55
1	b1	62	HIS	N-CA-C	6.29	120.23	111.74
1	b4	90	PRO	N-CA-C	6.29	121.09	111.15
1	b9	168	PHE	CA-CB-CG	6.29	120.09	113.80
1	bn	26	VAL	N-CA-C	6.29	116.46	110.42
1	bx	75	GLU	CA-C-N	6.29	128.71	120.28
1	bx	75	GLU	C-N-CA	6.29	128.71	120.28
1	bQ	54	THR	CA-C-N	6.29	128.62	120.44
1	bQ	54	THR	C-N-CA	6.29	128.62	120.44
1	1b	188	THR	CA-C-N	6.29	128.62	120.44
1	1b	188	THR	C-N-CA	6.29	128.62	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cl	131	LYS	N-CA-C	6.29	118.94	111.33
1	cZ	12	HIS	O-C-N	-6.29	115.03	122.96
1	dr	130	TYR	N-CA-CB	-6.29	100.89	110.01
1	dA	22	ALA	N-CA-C	6.29	118.14	111.28
1	dC	221	VAL	N-CA-C	6.29	117.07	110.72
1	dE	135	ILE	O-C-N	-6.29	115.77	121.87
1	dN	123	PRO	CA-C-N	-6.29	118.32	122.60
1	dN	123	PRO	C-N-CA	-6.29	118.32	122.60
1	dP	73	ILE	CA-CB-CG2	-6.29	99.81	110.50
1	e1	212	GLU	CA-C-N	6.29	129.22	120.29
1	e1	212	GLU	C-N-CA	6.29	129.22	120.29
1	eN	7	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	f4	143	ARG	O-C-N	-6.29	114.21	122.39
1	fw	115	ILE	N-CA-CB	6.29	117.22	110.62
1	g0	185	MET	CG-SD-CE	-6.29	87.06	100.90
1	y	159	GLU	N-CA-C	6.29	120.82	109.44
1	I	161	PHE	O-C-N	-6.29	114.86	122.22
1	T	62	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	g9	183	ASN	CA-CB-CG	-6.29	106.31	112.60
1	gb	78	ALA	O-C-N	-6.29	114.98	122.15
1	1C	22	ALA	CA-C-N	6.29	129.53	120.79
1	1C	22	ALA	C-N-CA	6.29	129.53	120.79
1	gt	195	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	gw	228	ALA	O-C-N	-6.29	115.85	123.27
1	1F	133	TRP	N-CA-C	6.29	117.80	111.07
1	gP	124	ILE	CB-CA-C	-6.29	103.98	110.71
1	gV	130	TYR	CB-CA-C	6.29	121.23	110.79
1	h6	96	MET	CA-C-N	6.29	132.42	120.97
1	h6	96	MET	C-N-CA	6.29	132.42	120.97
1	h8	44	SER	CB-CA-C	-6.29	99.93	110.56
1	h9	67	GLN	N-CA-C	6.29	118.66	111.11
1	hw	32	PHE	CA-CB-CG	-6.29	107.51	113.80
1	hP	200	THR	CA-C-O	-6.29	113.75	120.42
1	hS	143	ARG	N-CA-C	6.29	117.80	111.07
1	io	46	GLY	CA-C-O	6.29	125.81	119.27
1	is	159	GLU	N-CA-C	6.29	117.63	109.64
1	iJ	69	LEU	O-C-N	-6.29	115.59	122.07
1	iX	5	ASN	CA-C-N	6.29	128.71	120.28
1	iX	5	ASN	C-N-CA	6.29	128.71	120.28
1	1V	75	GLU	N-CA-C	-6.29	105.43	113.23
1	jo	152	ASP	N-CA-CB	-6.29	100.85	110.16
1	jB	130	TYR	CB-CG-CD1	6.29	130.23	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jF	28	GLU	O-C-N	6.29	129.32	122.15
1	jH	55	MET	O-C-N	-6.29	115.45	122.12
1	k4	130	TYR	CA-C-N	6.29	129.03	120.54
1	k4	130	TYR	C-N-CA	6.29	129.03	120.54
1	ke	184	TRP	O-C-N	-6.29	115.45	122.12
1	kn	169	TYR	CA-C-N	6.29	129.03	120.54
1	kn	169	TYR	C-N-CA	6.29	129.03	120.54
1	kv	180	GLU	N-CA-C	6.29	117.80	111.07
1	kz	126	VAL	O-C-N	-6.29	115.73	121.89
1	kB	94	GLY	N-CA-C	-6.29	106.22	115.72
1	kH	161	PHE	N-CA-CB	6.29	121.12	110.49
1	kL	77	ALA	N-CA-C	6.29	118.13	111.28
1	kM	49	PRO	CA-C-N	6.29	128.71	120.28
1	kM	49	PRO	C-N-CA	6.29	128.71	120.28
1	kT	53	ASN	CA-CB-CG	-6.29	106.31	112.60
1	lm	132	ARG	CA-C-N	6.29	128.71	120.28
1	lm	132	ARG	C-N-CA	6.29	128.71	120.28
1	lQ	22	ALA	CA-C-N	6.29	128.62	120.44
1	lQ	22	ALA	C-N-CA	6.29	128.62	120.44
1	2g	192	GLN	N-CA-C	6.29	118.21	111.36
1	2h	182	LYS	CA-C-N	6.29	128.62	120.44
1	2h	182	LYS	C-N-CA	6.29	128.62	120.44
1	2m	146	SER	CA-C-O	6.29	125.36	119.76
1	2o	152	ASP	N-CA-C	-6.29	105.89	112.93
1	36	12	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	3a	206	GLY	CA-C-N	6.29	127.43	120.45
1	3a	206	GLY	C-N-CA	6.29	127.43	120.45
1	3t	212	GLU	CA-CB-CG	6.29	126.68	114.10
1	4h	84	HIS	CB-CA-C	-6.29	103.19	110.17
1	4k	198	CYS	CA-C-N	6.29	129.03	120.54
1	4k	198	CYS	C-N-CA	6.29	129.03	120.54
1	4u	103	ASP	N-CA-C	-6.29	104.31	112.23
1	4F	140	LYS	CA-C-O	-6.29	113.75	120.42
1	4U	64	ALA	N-CA-C	6.29	118.21	111.36
1	5n	45	GLU	N-CA-C	6.29	119.33	109.96
1	5D	208	ALA	N-CA-C	6.29	118.94	111.71
1	5L	175	GLU	CA-C-O	-6.29	114.27	121.19
1	5W	143	ARG	N-CA-C	6.29	117.93	111.14
1	5X	229	ARG	NE-CZ-NH2	6.29	124.86	119.20
1	6b	45	GLU	N-CA-C	6.29	118.13	111.28
1	6d	62	HIS	CG-CD2-NE2	-6.29	100.91	107.20
1	6g	93	PRO	N-CA-C	6.29	120.95	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6A	175	GLU	N-CA-C	6.29	120.21	112.54
1	77	81	ASP	CA-CB-CG	-6.29	106.31	112.60
1	7H	73	ILE	N-CA-C	6.29	116.46	110.42
1	7L	216	THR	CA-C-O	6.29	127.37	119.95
1	82	166	ASP	N-CA-CB	-6.29	100.89	110.01
1	82	200	THR	N-CA-CB	6.29	119.36	110.12
1	8i	120	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	8Q	155	GLN	N-CA-C	-6.29	99.77	109.14
1	8Z	21	ASN	CA-CB-CG	6.29	118.89	112.60
1	9g	36	VAL	O-C-N	-6.29	115.52	121.87
1	9k	79	GLU	N-CA-C	6.29	118.13	111.28
1	9t	81	ASP	N-CA-CB	-6.29	100.88	110.12
1	9K	96	MET	CA-C-O	6.29	127.24	120.95
1	9P	169	TYR	N-CA-C	6.29	118.21	111.36
1	a3	74	ASN	O-C-N	-6.29	115.59	122.07
1	af	38	PRO	CA-C-N	6.29	129.03	120.54
1	af	38	PRO	C-N-CA	6.29	129.03	120.54
1	11	200	THR	CA-CB-CG2	6.29	121.19	110.50
1	ak	155	GLN	CB-CG-CD	6.29	123.29	112.60
1	aL	185	MET	CA-C-N	6.29	128.71	120.28
1	aL	185	MET	C-N-CA	6.29	128.71	120.28
1	b0	120	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	bc	131	LYS	CA-C-N	6.29	128.71	120.28
1	bc	131	LYS	C-N-CA	6.29	128.71	120.28
1	bh	100	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	bo	79	GLU	CA-C-N	6.29	129.03	120.54
1	bo	79	GLU	C-N-CA	6.29	129.03	120.54
1	bR	44	SER	N-CA-C	6.29	120.56	113.02
1	bX	29	GLU	CA-C-N	6.29	132.36	122.49
1	bX	29	GLU	C-N-CA	6.29	132.36	122.49
1	c1	18	ARG	N-CA-C	6.29	118.14	111.28
1	cb	108	THR	CA-CB-OG1	6.29	119.03	109.60
1	cc	45	GLU	N-CA-CB	6.29	120.12	109.87
1	cl	168	PHE	N-CA-C	6.29	121.68	111.37
1	cr	52	LEU	CA-C-N	6.29	128.62	120.44
1	cr	52	LEU	C-N-CA	6.29	128.62	120.44
1	cs	3	VAL	O-C-N	-6.29	116.08	123.00
1	ct	210	THR	O-C-N	-6.29	115.13	122.87
1	cA	24	VAL	N-CA-CB	6.29	119.09	110.54
1	cA	48	THR	CA-CB-OG1	6.29	119.03	109.60
1	cQ	77	ALA	N-CA-C	6.29	118.94	111.33
1	cX	230	VAL	N-CA-CB	6.29	121.61	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d0	205	LEU	CA-C-N	6.29	131.74	121.87
1	d0	205	LEU	C-N-CA	6.29	131.74	121.87
1	dk	41	SER	N-CA-C	6.29	118.94	111.33
1	dr	151	LEU	CA-C-O	6.29	127.20	119.97
1	dW	54	THR	CA-C-N	6.29	128.71	120.28
1	dW	54	THR	C-N-CA	6.29	128.71	120.28
1	dX	131	LYS	O-C-N	-6.29	115.45	122.12
1	ec	162	ARG	N-CA-C	6.29	118.13	111.28
1	ej	1	PRO	CA-C-N	6.29	129.09	120.35
1	ej	1	PRO	C-N-CA	6.29	129.09	120.35
1	ek	103	ASP	CA-CB-CG	-6.29	106.31	112.60
1	eM	221	VAL	N-CA-C	6.29	119.72	109.78
1	eO	87	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	f4	146	SER	CA-C-N	6.29	126.31	119.89
1	f4	146	SER	C-N-CA	6.29	126.31	119.89
1	f9	162	ARG	O-C-N	-6.29	115.45	122.12
1	fd	215	MET	O-C-N	-6.29	115.45	122.12
1	fj	168	PHE	CA-C-O	6.29	127.63	120.90
1	fm	34	PRO	N-CA-CB	6.29	109.85	103.25
1	fr	14	ALA	O-C-N	-6.29	115.68	123.04
1	fF	57	ASN	OD1-CG-ND2	-6.29	116.31	122.60
1	fQ	74	ASN	N-CA-CB	6.29	120.03	110.28
1	fV	44	SER	O-C-N	-6.29	114.58	122.19
1	g0	193	ASN	O-C-N	-6.29	114.53	122.26
1	g4	116	GLY	O-C-N	6.29	128.22	122.18
1	g4	218	CYS	CA-C-N	6.29	128.71	120.28
1	g4	218	CYS	C-N-CA	6.29	128.71	120.28
1	h	135	ILE	CA-C-N	6.29	128.71	120.28
1	h	135	ILE	C-N-CA	6.29	128.71	120.28
1	1	119	THR	CA-C-N	6.29	132.42	120.97
1	1	119	THR	C-N-CA	6.29	132.42	120.97
1	1	140	LYS	CA-C-N	6.29	129.07	120.46
1	1	140	LYS	C-N-CA	6.29	129.07	120.46
1	B	62	HIS	N-CA-C	6.29	119.85	111.30
1	U	132	ARG	NE-CZ-NH1	-6.29	115.21	121.50
1	gi	160	PRO	N-CA-CB	-6.29	96.65	103.25
1	1F	212	GLU	CA-C-N	6.29	128.61	120.44
1	1F	212	GLU	C-N-CA	6.29	128.61	120.44
1	ha	24	VAL	O-C-N	-6.29	115.77	121.87
1	hV	209	ALA	O-C-N	-6.29	116.02	123.06
1	i8	105	ALA	CA-C-N	6.29	132.32	121.07
1	i8	105	ALA	C-N-CA	6.29	132.32	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	191	VAL	O-C-N	-6.29	115.36	121.83
1	iM	34	PRO	CA-C-N	6.29	129.56	120.38
1	iM	34	PRO	C-N-CA	6.29	129.56	120.38
1	ja	113	GLU	N-CA-C	6.29	118.13	111.28
1	jy	54	THR	CA-C-N	6.29	128.61	120.44
1	jy	54	THR	C-N-CA	6.29	128.61	120.44
1	jy	178	SER	N-CA-C	6.29	118.41	110.24
1	jz	100	ARG	O-C-N	-6.29	114.23	122.59
1	jF	124	ILE	N-CA-CB	6.29	118.73	111.31
1	ki	122	PRO	CA-C-N	6.29	127.70	119.84
1	ki	122	PRO	C-N-CA	6.29	127.70	119.84
1	22	92	GLU	N-CA-C	6.29	117.30	109.57
1	kB	97	ARG	O-C-N	-6.29	115.08	122.81
1	kK	15	ILE	N-CA-CB	6.29	117.99	110.95
1	ll	49	PRO	CA-C-N	6.29	128.61	120.44
1	ll	49	PRO	C-N-CA	6.29	128.61	120.44
1	lw	12	HIS	O-C-N	-6.29	115.16	122.95
1	2o	7	GLN	CA-CB-CG	6.29	126.67	114.10
1	2Z	62	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	37	70	LYS	N-CA-C	6.29	118.13	111.28
1	37	167	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	4o	67	GLN	O-C-N	-6.29	115.45	122.12
1	4J	21	ASN	CA-C-N	6.29	128.61	120.44
1	4J	21	ASN	C-N-CA	6.29	128.61	120.44
1	5m	80	TRP	N-CA-C	6.29	118.13	111.28
1	5m	168	PHE	N-CA-C	6.29	117.80	111.07
1	6g	120	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	6J	49	PRO	N-CA-C	6.29	123.12	113.75
1	6Q	226	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	75	12	HIS	CA-CB-CG	-6.29	107.51	113.80
1	7j	158	LYS	CA-C-N	6.29	131.36	121.17
1	7j	158	LYS	C-N-CA	6.29	131.36	121.17
1	7n	42	ALA	CA-C-O	6.29	127.20	120.10
1	7D	70	LYS	N-CA-C	6.29	117.80	111.07
1	82	179	GLN	CA-C-N	6.29	128.99	120.38
1	82	179	GLN	C-N-CA	6.29	128.99	120.38
1	8g	185	MET	O-C-N	-6.29	115.55	122.09
1	8k	161	PHE	N-CA-CB	6.29	119.47	110.16
1	8F	95	GLN	CB-CG-CD	6.29	123.29	112.60
1	8L	186	THR	N-CA-C	6.29	118.21	111.36
1	9U	164	TYR	CB-CA-C	6.29	121.35	110.79
1	aS	149	SER	O-C-N	-6.29	115.32	122.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	215	MET	N-CA-C	6.29	118.13	111.28
1	cc	226	HIS	CE1-NE2-CD2	-6.29	102.71	109.00
1	cH	108	THR	O-C-N	-6.29	114.48	122.34
1	cR	137	GLY	CA-C-O	-6.29	114.57	121.05
1	1h	33	SER	O-C-N	-6.29	114.09	121.32
1	dM	59	VAL	CA-C-O	6.29	128.42	121.13
1	eG	77	ALA	O-C-N	-6.29	114.23	122.59
1	1v	17	PRO	CA-C-N	6.29	129.22	120.29
1	1v	17	PRO	C-N-CA	6.29	129.22	120.29
1	fa	39	MET	CA-C-N	6.29	129.22	120.29
1	fa	39	MET	C-N-CA	6.29	129.22	120.29
1	fq	100	ARG	CA-C-N	6.29	128.00	120.14
1	fq	100	ARG	C-N-CA	6.29	128.00	120.14
1	ft	32	PHE	N-CA-C	-6.29	105.19	112.92
1	g6	10	MET	N-CA-C	6.29	119.35	110.23
1	C	136	LEU	CA-C-N	6.29	128.20	120.22
1	C	136	LEU	C-N-CA	6.29	128.20	120.22
1	J	191	VAL	CA-C-N	6.29	128.71	120.28
1	J	191	VAL	C-N-CA	6.29	128.71	120.28
1	gg	9	GLN	CA-C-N	6.29	129.75	120.95
1	gg	9	GLN	C-N-CA	6.29	129.75	120.95
1	gr	9	GLN	N-CA-C	6.29	124.19	110.80
1	gS	188	THR	CA-C-N	6.29	128.70	120.28
1	gS	188	THR	C-N-CA	6.29	128.70	120.28
1	h3	26	VAL	N-CA-C	6.29	117.07	110.72
1	h9	179	GLN	N-CA-C	6.29	119.80	111.75
1	hg	188	THR	CA-CB-OG1	6.29	119.03	109.60
1	hq	33	SER	CA-C-N	6.29	126.03	119.05
1	hq	33	SER	C-N-CA	6.29	126.03	119.05
1	hy	170	LYS	N-CA-C	6.29	117.80	111.07
1	hO	71	GLU	CA-C-O	-6.29	114.22	120.82
1	hP	142	VAL	CA-C-O	-6.29	114.73	121.27
1	hY	67	GLN	N-CA-C	6.29	117.80	111.07
1	i9	178	SER	N-CA-C	6.29	118.41	110.24
1	iy	116	GLY	N-CA-C	6.29	119.79	112.50
1	iy	120	HIS	CG-CD2-NE2	6.29	113.48	107.20
1	iD	94	GLY	CA-C-O	6.29	125.70	119.04
1	iX	62	HIS	CB-CG-CD2	-6.29	123.03	131.20
1	j8	183	ASN	O-C-N	-6.29	115.46	122.12
1	jd	190	LEU	CA-C-N	6.29	128.48	120.56
1	jd	190	LEU	C-N-CA	6.29	128.48	120.56
1	jl	200	THR	N-CA-CB	6.29	119.12	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jC	229	ARG	N-CA-C	6.29	120.22	111.74
1	1X	154	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	jQ	155	GLN	O-C-N	-6.29	115.22	122.89
1	kd	97	ARG	CA-C-N	6.29	131.35	121.17
1	kd	97	ARG	C-N-CA	6.29	131.35	121.17
1	ky	40	PHE	N-CA-C	6.29	118.65	111.11
1	kL	84	HIS	CE1-NE2-CD2	-6.29	102.72	109.00
1	kN	222	GLY	CA-C-N	6.29	131.74	121.87
1	kN	222	GLY	C-N-CA	6.29	131.74	121.87
1	26	206	GLY	O-C-N	-6.29	115.48	121.77
1	l9	186	THR	CB-CA-C	-6.29	100.17	110.85
1	l9	200	THR	N-CA-C	6.29	117.80	111.07
1	lj	128	GLU	CA-C-O	6.29	127.08	120.42
1	lm	143	ARG	NE-CZ-NH2	6.29	124.86	119.20
1	lI	195	ASN	CA-CB-CG	6.29	118.89	112.60
1	lL	13	GLN	O-C-N	-6.29	115.24	123.16
1	lM	101	GLY	CA-C-O	6.29	127.32	120.66
1	2v	68	MET	CA-C-N	6.29	128.70	120.28
1	2v	68	MET	C-N-CA	6.29	128.70	120.28
1	2z	124	ILE	CA-C-O	-6.29	114.47	119.25
1	2C	59	VAL	N-CA-CB	6.29	117.90	110.55
1	2F	146	SER	CA-C-N	6.29	125.85	119.19
1	2F	146	SER	C-N-CA	6.29	125.85	119.19
1	2S	73	ILE	CA-CB-CG1	6.29	121.08	110.40
1	2U	3	VAL	O-C-N	-6.29	116.25	122.97
1	2W	54	THR	N-CA-CB	6.29	119.12	110.01
1	2Y	187	GLU	CA-C-O	6.29	127.42	120.82
1	32	65	ALA	CA-C-N	6.29	128.61	120.44
1	32	65	ALA	C-N-CA	6.29	128.61	120.44
1	3e	124	ILE	O-C-N	-6.29	113.93	121.10
1	3o	27	VAL	CB-CA-C	6.29	120.62	112.14
1	3x	26	VAL	CA-CB-CG1	6.29	121.09	110.40
1	3O	138	LEU	O-C-N	6.29	128.78	122.12
1	3R	199	LYS	CA-C-O	-6.29	113.89	120.55
1	3S	9	GLN	CA-C-N	6.29	131.79	122.74
1	3S	9	GLN	C-N-CA	6.29	131.79	122.74
1	3W	11	VAL	O-C-N	-6.29	116.54	123.20
1	3Y	68	MET	N-CA-CB	6.29	119.36	110.12
1	40	67	GLN	N-CA-CB	6.29	119.36	110.12
1	4n	35	GLU	CA-C-N	6.29	130.93	120.62
1	4n	35	GLU	C-N-CA	6.29	130.93	120.62
1	4y	179	GLN	N-CA-CB	6.29	119.90	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4B	97	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	4C	173	ARG	NE-CZ-NH2	-6.29	113.54	119.20
1	5k	5	ASN	CA-CB-CG	6.29	118.89	112.60
1	5T	118	MET	O-C-N	-6.29	114.87	122.22
1	69	132	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	6F	199	LYS	CA-C-N	6.29	129.03	120.54
1	6F	199	LYS	C-N-CA	6.29	129.03	120.54
1	6H	71	GLU	CA-C-N	6.29	128.70	120.28
1	6H	71	GLU	C-N-CA	6.29	128.70	120.28
1	6P	59	VAL	N-CA-C	6.29	117.19	108.89
1	6Q	150	ILE	CA-C-N	6.29	128.70	120.28
1	6Q	150	ILE	C-N-CA	6.29	128.70	120.28
1	6T	40	PHE	O-C-N	-6.29	115.55	122.09
1	6T	57	ASN	CA-CB-CG	-6.29	106.31	112.60
1	7o	115	ILE	CA-C-N	6.29	126.92	119.94
1	7o	115	ILE	C-N-CA	6.29	126.92	119.94
1	7q	126	VAL	CA-C-O	6.29	127.30	120.57
1	7I	15	ILE	N-CA-C	6.29	117.42	108.93
1	7M	84	HIS	CB-CG-CD2	-6.29	123.03	131.20
1	81	16	SER	CA-C-N	6.29	125.70	118.85
1	81	16	SER	C-N-CA	6.29	125.70	118.85
1	8l	199	LYS	CA-C-N	6.29	129.03	120.54
1	8l	199	LYS	C-N-CA	6.29	129.03	120.54
1	8Q	48	THR	O-C-N	-6.29	114.49	121.53
1	8R	14	ALA	CA-C-N	6.29	129.87	120.69
1	8R	14	ALA	C-N-CA	6.29	129.87	120.69
1	9t	154	ARG	NE-CZ-NH1	6.29	127.78	121.50
1	9G	122	PRO	CA-C-N	6.29	126.31	119.90
1	9G	122	PRO	C-N-CA	6.29	126.31	119.90
1	9K	148	THR	CA-CB-OG1	6.29	119.03	109.60
1	9P	138	LEU	CA-C-N	6.29	128.70	120.28
1	9P	138	LEU	C-N-CA	6.29	128.70	120.28
1	ac	230	VAL	CA-CB-CG2	6.29	121.09	110.40
1	am	173	ARG	NE-CZ-NH2	6.29	124.86	119.20
1	aq	223	GLY	O-C-N	-6.29	115.48	121.77
1	aN	161	PHE	O-C-N	6.29	128.63	122.09
1	aX	30	LYS	N-CA-C	6.29	121.80	112.94
1	aY	149	SER	CA-C-O	6.29	127.30	120.32
1	b4	200	THR	N-CA-C	6.29	118.13	111.28
1	bc	163	ASP	CA-C-N	6.29	128.61	120.44
1	bc	163	ASP	C-N-CA	6.29	128.61	120.44
1	bv	10	MET	O-C-N	-6.29	115.84	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bF	117	TRP	CB-CG-CD2	-6.29	118.00	126.80
1	bV	230	VAL	N-CA-C	-6.29	99.31	108.11
1	bY	108	THR	N-CA-CB	6.29	120.47	110.73
1	c2	99	PRO	N-CD-CG	6.29	112.63	103.20
1	c7	146	SER	CA-C-O	-6.29	114.91	120.19
1	ca	51	ASP	O-C-N	-6.29	115.55	122.09
1	cm	58	THR	N-CA-CB	6.29	120.02	110.28
1	cD	225	GLY	CA-C-O	6.29	127.18	119.01
1	cR	184	TRP	CA-C-N	6.29	128.70	120.28
1	cR	184	TRP	C-N-CA	6.29	128.70	120.28
1	cS	18	ARG	NE-CZ-NH1	6.29	127.79	121.50
1	cU	1	PRO	N-CA-CB	-6.29	96.08	103.00
1	cW	84	HIS	CE1-NE2-CD2	-6.29	102.72	109.00
1	1i	226	HIS	CA-CB-CG	6.29	120.08	113.80
1	d7	118	MET	N-CA-C	-6.29	105.25	113.17
1	dg	32	PHE	CA-C-N	6.29	130.22	120.60
1	dg	32	PHE	C-N-CA	6.29	130.22	120.60
1	dl	26	VAL	CA-C-N	6.29	128.56	120.70
1	dl	26	VAL	C-N-CA	6.29	128.56	120.70
1	dw	104	ILE	N-CA-CB	6.29	117.90	110.55
1	dx	183	ASN	CA-CB-CG	6.29	118.89	112.60
1	dC	195	ASN	CA-C-N	6.29	127.70	119.84
1	dC	195	ASN	C-N-CA	6.29	127.70	119.84
1	dH	182	LYS	CB-CG-CD	6.29	125.76	111.30
1	dM	160	PRO	CA-C-N	6.29	128.70	120.28
1	dM	160	PRO	C-N-CA	6.29	128.70	120.28
1	dP	25	LYS	N-CA-C	6.29	118.13	111.28
1	dP	133	TRP	CB-CG-CD1	6.29	136.33	126.90
1	ej	182	LYS	CA-C-N	6.29	128.70	120.28
1	ej	182	LYS	C-N-CA	6.29	128.70	120.28
1	eu	145	TYR	CB-CA-C	-6.29	100.97	110.90
1	eD	15	ILE	N-CA-C	6.29	122.42	109.34
1	eV	214	MET	N-CA-C	6.29	118.13	111.28
1	fp	97	ARG	CD-NE-CZ	6.29	133.20	124.40
1	fp	207	PRO	N-CA-C	-6.29	105.44	114.18
1	1x	151	LEU	O-C-N	-6.29	115.98	123.27
1	fT	120	HIS	ND1-CE1-NE2	6.29	114.69	108.40
1	g3	192	GLN	OE1-CD-NE2	-6.29	116.31	122.60
1	A	125	PRO	N-CA-CB	-6.29	96.65	103.25
1	P	224	PRO	N-CA-C	6.29	121.08	111.15
1	5	166	ASP	CA-CB-CG	6.29	118.89	112.60
1	gm	162	ARG	NE-CZ-NH2	-6.28	113.55	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	156	GLY	CA-C-N	6.28	125.85	119.19
1	gy	156	GLY	C-N-CA	6.28	125.85	119.19
1	gF	23	TRP	CA-C-N	6.28	128.38	120.72
1	gF	23	TRP	C-N-CA	6.28	128.38	120.72
1	gU	30	LYS	CA-C-N	6.28	128.70	120.28
1	gU	30	LYS	C-N-CA	6.28	128.70	120.28
1	gX	173	ARG	CA-C-N	6.28	128.61	120.44
1	gX	173	ARG	C-N-CA	6.28	128.61	120.44
1	1H	154	ARG	O-C-N	-6.28	116.23	123.33
1	hl	87	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	hp	165	VAL	CA-C-O	-6.28	114.41	120.95
1	hF	27	VAL	CB-CA-C	6.28	120.62	112.14
1	hF	35	GLU	CB-CG-CD	6.28	123.28	112.60
1	i9	114	GLN	N-CA-CB	6.28	119.12	110.01
1	ic	122	PRO	CA-C-N	6.28	127.69	119.84
1	ic	122	PRO	C-N-CA	6.28	127.69	119.84
1	1Q	221	VAL	CB-CA-C	-6.28	101.92	112.16
1	iB	40	PHE	N-CA-CB	6.28	119.12	110.01
1	1R	2	ILE	CA-CB-CG2	-6.28	99.82	110.50
1	iO	201	ILE	CA-C-N	6.28	128.61	120.44
1	iO	201	ILE	C-N-CA	6.28	128.61	120.44
1	iW	132	ARG	N-CA-C	-6.28	104.43	111.28
1	jD	17	PRO	CA-C-N	6.28	128.70	120.28
1	jD	17	PRO	C-N-CA	6.28	128.70	120.28
1	jL	197	ASP	CA-CB-CG	6.28	118.88	112.60
1	k3	100	ARG	O-C-N	-6.28	115.55	122.84
1	k9	192	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	20	112	GLN	CA-C-O	6.28	127.42	120.63
1	kg	84	HIS	CB-CG-CD2	-6.28	123.03	131.20
1	lg	154	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	lj	218	CYS	N-CA-C	6.28	120.22	111.74
1	lQ	215	MET	CG-SD-CE	-6.28	87.08	100.90
1	2r	52	LEU	N-CA-CB	-6.28	100.88	110.12
1	2Z	118	MET	CA-C-O	6.28	126.66	119.18
1	3R	217	ALA	N-CA-CB	-6.28	101.46	110.44
1	3Z	161	PHE	CB-CG-CD1	6.28	131.38	120.70
1	4c	21	ASN	CA-C-N	6.28	128.70	120.28
1	4c	21	ASN	C-N-CA	6.28	128.70	120.28
1	4g	53	ASN	CA-CB-CG	-6.28	106.32	112.60
1	4k	229	ARG	NE-CZ-NH2	6.28	124.86	119.20
1	4o	147	PRO	O-C-N	-6.28	114.38	122.23
1	4z	12	HIS	ND1-CE1-NE2	6.28	114.68	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	56	47	ALA	N-CA-C	6.28	119.39	109.96
1	5f	63	GLN	O-C-N	-6.28	114.87	122.22
1	5h	111	LEU	N-CA-C	6.28	118.13	111.28
1	5v	19	THR	N-CA-C	6.28	118.65	111.11
1	5E	87	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	5K	118	MET	CA-CB-CG	-6.28	101.53	114.10
1	5K	182	LYS	O-C-N	6.28	128.54	122.07
1	5T	134	ILE	N-CA-C	6.28	117.03	110.62
1	6e	181	VAL	N-CA-CB	6.28	117.48	110.51
1	6h	87	HIS	CG-CD2-NE2	6.28	113.48	107.20
1	6C	188	THR	O-C-N	-6.28	113.49	122.41
1	7g	193	ASN	O-C-N	-6.28	113.79	122.46
1	7w	55	MET	CA-C-O	6.28	127.60	121.00
1	7F	125	PRO	CA-C-O	-6.28	116.54	121.38
1	7Q	184	TRP	CA-C-O	6.28	127.20	120.10
1	84	74	ASN	O-C-N	-6.28	115.46	122.12
1	8a	154	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	8f	152	ASP	CA-C-N	6.28	131.55	123.13
1	8f	152	ASP	C-N-CA	6.28	131.55	123.13
1	8V	16	SER	N-CA-C	6.28	117.99	110.07
1	8V	221	VAL	CA-C-O	6.28	127.25	120.53
1	93	142	VAL	N-CA-CB	6.28	119.08	110.54
1	9C	189	LEU	CB-CA-C	6.28	121.22	110.79
1	9M	125	PRO	N-CA-CB	6.28	106.65	102.25
1	9T	68	MET	CA-C-N	6.28	129.21	120.29
1	9T	68	MET	C-N-CA	6.28	129.21	120.29
1	a5	3	VAL	CA-C-N	6.28	131.07	122.34
1	a5	3	VAL	C-N-CA	6.28	131.07	122.34
1	ah	85	PRO	N-CA-C	6.28	120.71	111.03
1	ax	179	GLN	N-CA-C	6.28	118.93	111.33
1	aL	137	GLY	CA-C-O	6.28	126.81	120.09
1	aX	222	GLY	O-C-N	-6.28	117.20	122.92
1	b0	185	MET	O-C-N	-6.28	113.79	122.46
1	bb	195	ASN	CA-C-O	-6.28	113.85	120.70
1	17	182	LYS	O-C-N	-6.28	115.46	122.12
1	bx	198	CYS	CA-C-O	6.28	127.08	120.42
1	bz	132	ARG	CA-CB-CG	6.28	126.67	114.10
1	bA	180	GLU	CA-C-N	6.28	128.48	120.56
1	bA	180	GLU	C-N-CA	6.28	128.48	120.56
1	bK	173	ARG	CA-C-O	6.28	127.19	119.97
1	bW	91	ILE	CA-CB-CG2	-6.28	99.82	110.50
1	c1	92	GLU	CA-C-N	6.28	127.19	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c1	92	GLU	C-N-CA	6.28	127.19	120.47
1	cv	70	LYS	O-C-N	-6.28	114.99	122.15
1	cy	130	TYR	CA-C-N	6.28	129.02	120.54
1	cy	130	TYR	C-N-CA	6.28	129.02	120.54
1	cN	114	GLN	N-CA-C	6.28	118.65	111.11
1	cU	226	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	d6	188	THR	CA-C-N	6.28	128.99	120.38
1	d6	188	THR	C-N-CA	6.28	128.99	120.38
1	dk	98	GLU	CA-C-N	6.28	126.50	119.90
1	dk	98	GLU	C-N-CA	6.28	126.50	119.90
1	dp	132	ARG	O-C-N	-6.28	115.46	122.12
1	dA	12	HIS	CA-CB-CG	6.28	120.08	113.80
1	dX	6	LEU	O-C-N	-6.28	114.23	122.59
1	e0	2	ILE	N-CA-CB	6.28	118.04	110.31
1	1o	68	MET	CA-C-O	-6.28	114.22	120.82
1	ev	21	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	ey	71	GLU	N-CA-C	6.28	118.13	111.28
1	eB	162	ARG	N-CA-CB	6.28	119.36	110.12
1	eE	90	PRO	N-CA-C	6.28	121.10	111.11
1	eJ	221	VAL	O-C-N	-6.28	114.72	122.57
1	eL	156	GLY	O-C-N	-6.28	115.49	121.77
1	eP	183	ASN	CA-CB-CG	-6.28	106.32	112.60
1	eS	149	SER	N-CA-CB	6.28	121.11	110.49
1	f2	212	GLU	CA-C-N	6.28	128.70	120.28
1	f2	212	GLU	C-N-CA	6.28	128.70	120.28
1	fw	183	ASN	CA-C-N	6.28	128.70	120.28
1	fw	183	ASN	C-N-CA	6.28	128.70	120.28
1	fX	109	SER	O-C-N	-6.28	115.55	122.84
1	g7	183	ASN	CA-CB-CG	-6.28	106.32	112.60
1	l	167	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	D	221	VAL	N-CA-C	6.28	116.45	110.42
1	3	141	ILE	N-CA-C	6.28	116.45	110.42
1	4	133	TRP	N-CA-C	6.28	118.13	111.28
1	hJ	82	ARG	CA-C-N	6.28	128.70	120.28
1	hJ	82	ARG	C-N-CA	6.28	128.70	120.28
1	hN	180	GLU	O-C-N	-6.28	115.31	122.09
1	iq	119	THR	CA-C-N	6.28	130.06	120.82
1	iq	119	THR	C-N-CA	6.28	130.06	120.82
1	jp	14	ALA	N-CA-C	6.28	119.36	110.50
1	1Z	16	SER	N-CA-C	6.28	117.57	109.72
1	k2	68	MET	O-C-N	-6.28	115.46	122.12
1	21	212	GLU	CA-C-O	6.28	127.21	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ku	114	GLN	CA-C-N	6.28	129.39	120.53
1	ku	114	GLN	C-N-CA	6.28	129.39	120.53
1	kC	222	GLY	N-CA-C	6.28	122.22	111.98
1	kL	25	LYS	CA-C-N	6.28	129.07	120.46
1	kL	25	LYS	C-N-CA	6.28	129.07	120.46
1	kU	48	THR	CA-C-O	-6.28	114.95	120.60
1	lc	223	GLY	O-C-N	-6.28	115.49	121.77
1	lg	128	GLU	N-CA-CB	6.28	119.36	110.12
1	lH	77	ALA	N-CA-C	6.28	118.13	111.28
1	lK	134	ILE	CA-C-N	6.28	129.39	120.53
1	lK	134	ILE	C-N-CA	6.28	129.39	120.53
1	2r	49	PRO	N-CA-CB	6.28	109.85	103.25
1	2A	53	ASN	CA-CB-CG	-6.28	106.32	112.60
1	2A	161	PHE	CA-CB-CG	-6.28	107.52	113.80
1	3r	228	ALA	N-CA-C	6.28	118.66	110.43
1	3T	150	ILE	O-C-N	-6.28	115.16	122.07
1	3U	72	THR	CA-C-N	6.28	128.47	120.56
1	3U	72	THR	C-N-CA	6.28	128.47	120.56
1	4N	62	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	53	198	CYS	CA-C-N	6.28	128.61	120.44
1	53	198	CYS	C-N-CA	6.28	128.61	120.44
1	5c	183	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	5n	50	GLN	CG-CD-NE2	6.28	125.82	116.40
1	5Z	85	PRO	N-CA-C	6.28	120.70	111.03
1	6B	60	GLY	CA-C-N	6.28	127.29	120.44
1	6B	60	GLY	C-N-CA	6.28	127.29	120.44
1	7f	127	GLY	CA-C-N	6.28	128.70	120.28
1	7f	127	GLY	C-N-CA	6.28	128.70	120.28
1	8B	72	THR	N-CA-C	6.28	117.79	111.07
1	8B	167	ARG	N-CA-C	6.28	118.13	111.28
1	8Z	128	GLU	CA-C-N	6.28	128.47	120.56
1	8Z	128	GLU	C-N-CA	6.28	128.47	120.56
1	90	146	SER	O-C-N	-6.28	115.00	121.28
1	96	52	LEU	CB-CA-C	6.28	121.22	110.79
1	9g	44	SER	CA-C-N	6.28	130.29	121.24
1	9g	44	SER	C-N-CA	6.28	130.29	121.24
1	ab	42	ALA	O-C-N	-6.28	114.99	122.15
1	az	5	ASN	CA-C-O	-6.28	114.30	121.65
1	b2	166	ASP	CA-C-N	6.28	129.21	120.29
1	b2	166	ASP	C-N-CA	6.28	129.21	120.29
1	1d	182	LYS	CB-CA-C	6.28	121.53	110.85
1	cj	120	HIS	CE1-NE2-CD2	-6.28	102.72	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cK	71	GLU	CA-C-O	6.28	127.21	120.55
1	cS	91	ILE	CA-C-N	6.28	129.41	120.49
1	cS	91	ILE	C-N-CA	6.28	129.41	120.49
1	d7	96	MET	O-C-N	-6.28	116.17	123.27
1	e6	103	ASP	CA-C-N	6.28	129.07	120.46
1	e6	103	ASP	C-N-CA	6.28	129.07	120.46
1	ed	201	ILE	N-CA-C	6.28	116.45	110.42
1	1q	89	GLY	N-CA-C	6.28	119.54	112.00
1	ft	125	PRO	CA-C-N	6.28	129.07	120.46
1	ft	125	PRO	C-N-CA	6.28	129.07	120.46
1	fI	85	PRO	N-CA-CB	6.28	108.76	103.17
1	fJ	42	ALA	N-CA-C	6.28	117.79	111.07
1	fO	6	LEU	N-CA-CB	-6.28	100.89	110.12
1	fQ	214	MET	O-C-N	-6.28	115.60	122.07
1	b	226	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	c	115	ILE	CA-C-O	-6.28	114.51	121.17
1	s	143	ARG	N-CA-C	6.28	118.13	111.28
1	Q	146	SER	O-C-N	-6.28	115.00	121.28
1	g8	58	THR	N-CA-C	6.28	118.93	111.71
1	gs	47	ALA	O-C-N	-6.28	115.14	122.87
1	gu	70	LYS	N-CA-C	6.28	118.65	111.11
1	gB	114	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	gC	75	GLU	CA-C-O	-6.28	113.89	120.55
1	gO	72	THR	CA-C-N	6.28	129.34	120.42
1	gO	72	THR	C-N-CA	6.28	129.34	120.42
1	ho	169	TYR	N-CA-CB	6.28	119.89	110.22
1	hw	50	GLN	CB-CG-CD	6.28	123.28	112.60
1	hB	53	ASN	CA-CB-CG	-6.28	106.32	112.60
1	hZ	93	PRO	CA-C-O	-6.28	114.18	121.34
1	1N	48	THR	CA-C-N	6.28	126.75	119.47
1	1N	48	THR	C-N-CA	6.28	126.75	119.47
1	is	82	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	iy	42	ALA	O-C-N	6.28	129.31	122.15
1	iP	90	PRO	CA-C-N	6.28	130.60	120.55
1	iP	90	PRO	C-N-CA	6.28	130.60	120.55
1	iR	197	ASP	CA-CB-CG	6.28	118.88	112.60
1	ja	64	ALA	CA-C-O	6.28	127.21	120.24
1	jb	181	VAL	CA-C-N	6.28	128.69	120.28
1	jb	181	VAL	C-N-CA	6.28	128.69	120.28
1	jk	135	ILE	N-CA-C	6.28	116.45	110.42
1	jA	87	HIS	O-C-N	-6.28	115.32	122.86
1	kf	12	HIS	ND1-CE1-NE2	6.28	114.68	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kp	184	TRP	N-CA-C	6.28	118.93	111.71
1	22	92	GLU	CA-C-O	-6.28	114.44	119.71
1	kx	161	PHE	O-C-N	-6.28	115.46	122.12
1	23	120	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	25	40	PHE	CA-C-N	6.28	128.60	120.44
1	25	40	PHE	C-N-CA	6.28	128.60	120.44
1	l4	87	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	l9	143	ARG	N-CA-C	6.28	117.79	111.07
1	27	206	GLY	O-C-N	-6.28	115.49	121.77
1	lx	106	GLY	CA-C-N	6.28	128.61	120.44
1	lx	106	GLY	C-N-CA	6.28	128.61	120.44
1	lA	98	GLU	O-C-N	-6.28	114.83	121.30
1	lE	193	ASN	CA-CB-CG	-6.28	106.32	112.60
1	2c	42	ALA	N-CA-CB	-6.28	100.87	110.16
1	2G	210	THR	N-CA-C	6.28	118.66	110.43
1	2V	18	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	37	215	MET	CA-C-N	6.28	128.60	120.44
1	37	215	MET	C-N-CA	6.28	128.60	120.44
1	3s	124	ILE	O-C-N	-6.28	113.94	121.10
1	3t	86	VAL	N-CA-C	6.28	122.40	109.34
1	3C	177	ALA	N-CA-C	6.28	118.96	109.23
1	3N	2	ILE	N-CA-C	-6.28	101.48	109.58
1	48	173	ARG	O-C-N	6.28	128.78	122.12
1	4P	51	ASP	N-CA-C	6.28	118.20	111.36
1	57	166	ASP	CA-C-N	6.28	128.60	120.44
1	57	166	ASP	C-N-CA	6.28	128.60	120.44
1	5r	226	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	5t	44	SER	N-CA-C	6.28	120.25	112.59
1	5w	159	GLU	O-C-N	-6.28	113.50	121.29
1	5R	108	THR	CA-CB-OG1	6.28	119.02	109.60
1	61	196	PRO	N-CA-C	6.28	125.41	112.47
1	6k	120	HIS	O-C-N	-6.28	115.09	122.81
1	6z	170	LYS	CA-C-N	6.28	128.60	120.44
1	6z	170	LYS	C-N-CA	6.28	128.60	120.44
1	6Z	18	ARG	NH1-CZ-NH2	-6.28	111.14	119.30
1	6Z	66	MET	CA-C-O	6.28	127.08	120.42
1	7J	89	GLY	CA-C-N	6.28	127.69	119.84
1	7J	89	GLY	C-N-CA	6.28	127.69	119.84
1	87	201	ILE	CA-C-O	-6.28	114.74	121.27
1	8p	97	ARG	N-CA-CB	6.28	119.31	109.83
1	9f	87	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	9g	84	HIS	CB-CG-ND1	-6.28	113.28	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9q	16	SER	O-C-N	-6.28	115.71	121.30
1	9E	195	ASN	O-C-N	-6.28	114.83	121.30
1	a0	198	CYS	CA-C-N	6.28	130.24	120.82
1	a0	198	CYS	C-N-CA	6.28	130.24	120.82
1	ab	18	ARG	N-CA-CB	-6.28	100.58	109.94
1	am	111	LEU	N-CA-CB	-6.28	100.89	110.12
1	aK	158	LYS	CA-C-N	6.28	129.09	120.67
1	aK	158	LYS	C-N-CA	6.28	129.09	120.67
1	aU	166	ASP	N-CA-CB	-6.28	100.84	110.20
1	bj	124	ILE	CB-CA-C	-6.28	103.96	111.18
1	bk	77	ALA	CA-C-O	6.28	127.42	120.82
1	18	206	GLY	CA-C-N	6.28	127.09	120.12
1	18	206	GLY	C-N-CA	6.28	127.09	120.12
1	bt	111	LEU	N-CA-C	6.28	118.93	111.71
1	bY	47	ALA	N-CA-C	6.28	119.58	110.28
1	c1	100	ARG	NH1-CZ-NH2	-6.28	111.14	119.30
1	c2	39	MET	N-CA-C	6.28	117.79	111.07
1	cE	226	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	cV	103	ASP	CA-CB-CG	-6.28	106.32	112.60
1	d6	149	SER	CA-C-N	6.28	131.27	121.35
1	d6	149	SER	C-N-CA	6.28	131.27	121.35
1	dn	18	ARG	NE-CZ-NH2	-6.28	113.55	119.20
1	do	97	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	dv	86	VAL	N-CA-CB	6.28	117.98	110.95
1	dW	160	PRO	N-CA-C	6.28	121.10	111.11
1	ez	190	LEU	N-CA-C	6.28	124.18	110.80
1	eU	195	ASN	CA-CB-CG	6.28	118.88	112.60
1	fi	40	PHE	CA-CB-CG	6.28	120.08	113.80
1	fs	92	GLU	CA-C-N	6.28	127.69	119.84
1	fs	92	GLU	C-N-CA	6.28	127.69	119.84
1	fu	122	PRO	CA-C-N	6.28	127.69	119.84
1	fu	122	PRO	C-N-CA	6.28	127.69	119.84
1	fE	176	GLN	CB-CA-C	6.28	122.04	110.11
1	fH	212	GLU	CA-C-N	6.28	128.60	120.44
1	fH	212	GLU	C-N-CA	6.28	128.60	120.44
1	fK	225	GLY	N-CA-C	6.28	120.08	112.48
1	fM	79	GLU	N-CA-CB	6.28	119.12	110.01
1	fP	216	THR	N-CA-C	-6.28	104.78	112.88
1	c	186	THR	CA-C-N	6.28	128.69	120.28
1	c	186	THR	C-N-CA	6.28	128.69	120.28
1	d	68	MET	O-C-N	-6.28	115.60	122.07
1	q	126	VAL	N-CA-C	6.28	117.03	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	83	LEU	N-CA-CB	-6.28	100.62	110.98
1	I	92	GLU	CA-C-O	6.28	125.58	119.55
1	Q	87	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	9	126	VAL	N-CA-C	6.28	118.90	111.05
1	hq	143	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	hQ	139	ASN	CA-CB-CG	-6.28	106.32	112.60
1	in	78	ALA	CA-C-O	6.28	127.08	120.42
1	iJ	53	ASN	CA-CB-CG	-6.28	106.32	112.60
1	ja	191	VAL	CA-C-O	6.28	127.03	120.25
1	ko	55	MET	N-CA-C	6.28	117.79	111.07
1	kq	134	ILE	N-CA-C	6.28	117.78	110.62
1	kP	117	TRP	CE3-CZ3-CH2	-6.28	112.94	121.10
1	ll	43	LEU	O-C-N	-6.28	114.87	122.22
1	ll	44	SER	O-C-N	-6.28	114.63	122.35
1	28	37	ILE	O-C-N	-6.28	116.40	120.42
1	2s	82	ARG	N-CA-CB	-6.28	100.89	110.12
1	2y	130	TYR	CA-C-N	6.28	128.69	120.28
1	2y	130	TYR	C-N-CA	6.28	128.69	120.28
1	2V	138	LEU	N-CA-C	6.28	118.93	111.71
1	2V	144	MET	N-CA-C	6.28	119.59	110.42
1	2W	135	ILE	CA-C-O	6.28	127.29	120.57
1	3z	169	TYR	N-CA-C	6.28	118.20	111.36
1	3B	73	ILE	N-CA-C	6.28	116.95	110.36
1	3F	143	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	3J	57	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	4O	120	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	4Y	42	ALA	CA-C-O	6.28	127.08	120.42
1	59	27	VAL	N-CA-CB	-6.28	103.20	110.55
1	5a	230	VAL	CA-C-O	6.28	128.63	120.78
1	66	114	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	6i	86	VAL	CB-CA-C	-6.28	102.30	110.84
1	6J	137	GLY	CA-C-O	-6.28	114.22	121.00
1	6X	46	GLY	O-C-N	-6.28	114.98	122.33
1	78	39	MET	CB-CA-C	-6.28	100.37	110.79
1	7W	4	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	8t	36	VAL	O-C-N	-6.28	115.78	121.87
1	8V	133	TRP	N-CA-C	6.28	117.79	111.07
1	aa	184	TRP	N-CA-CB	6.28	119.17	110.07
1	bU	37	ILE	N-CA-C	6.28	119.89	112.35
1	ci	45	GLU	N-CA-C	6.28	118.93	111.71
1	dp	129	ILE	CA-C-N	6.28	128.60	120.44
1	dp	129	ILE	C-N-CA	6.28	128.60	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dq	80	TRP	N-CA-C	6.28	118.93	111.33
1	dV	168	PHE	CA-C-O	6.28	127.20	120.55
1	er	185	MET	CA-C-N	6.28	128.60	120.44
1	er	185	MET	C-N-CA	6.28	128.60	120.44
1	f8	132	ARG	NH1-CZ-NH2	-6.28	111.14	119.30
1	fc	97	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	N	82	ARG	CA-C-O	6.28	126.62	119.27
1	7	186	THR	N-CA-CB	6.28	119.45	110.16
1	gk	195	ASN	N-CA-C	6.28	118.57	109.84
1	gB	68	MET	CA-C-O	6.28	127.41	120.82
1	gH	42	ALA	N-CA-C	6.28	118.12	111.28
1	gH	79	GLU	O-C-N	-6.28	115.56	122.09
1	gP	133	TRP	O-C-N	-6.28	115.60	122.07
1	h2	16	SER	O-C-N	-6.28	115.00	121.28
1	hm	40	PHE	CA-C-N	6.28	128.98	120.44
1	hm	40	PHE	C-N-CA	6.28	128.98	120.44
1	hn	81	ASP	N-CA-C	6.28	118.20	111.36
1	hz	197	ASP	N-CA-C	6.28	118.12	111.28
1	hI	112	GLN	N-CA-C	6.28	118.12	111.28
1	1L	52	LEU	N-CA-C	6.28	117.79	111.07
1	1L	68	MET	N-CA-CB	-6.28	100.89	110.12
1	hO	35	GLU	CA-C-N	6.28	129.34	120.42
1	hO	35	GLU	C-N-CA	6.28	129.34	120.42
1	hQ	226	HIS	N-CA-C	6.28	119.35	110.50
1	iu	221	VAL	O-C-N	-6.28	116.44	122.09
1	iz	42	ALA	N-CA-C	6.28	118.93	111.33
1	iK	76	GLU	CA-C-N	6.28	128.69	120.28
1	iK	76	GLU	C-N-CA	6.28	128.69	120.28
1	j1	77	ALA	N-CA-C	6.28	118.93	111.71
1	1T	149	SER	CA-C-O	6.28	128.13	120.60
1	j7	143	ARG	CB-CG-CD	6.28	125.74	111.30
1	js	225	GLY	N-CA-C	-6.28	107.10	115.32
1	jS	33	SER	CA-C-N	6.28	126.02	119.05
1	jS	33	SER	C-N-CA	6.28	126.02	119.05
1	jS	164	TYR	N-CA-CB	-6.28	100.91	110.01
1	ke	12	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	kf	36	VAL	CA-C-N	6.28	124.19	120.24
1	kf	36	VAL	C-N-CA	6.28	124.19	120.24
1	kg	173	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	ks	18	ARG	N-CA-CB	6.28	119.08	109.98
1	kz	139	ASN	N-CA-C	6.28	117.79	111.07
1	lp	26	VAL	N-CA-CB	6.28	120.00	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lq	173	ARG	O-C-N	-6.28	115.60	122.07
1	lr	128	GLU	CB-CG-CD	6.28	123.27	112.60
1	lL	197	ASP	CA-CB-CG	-6.28	106.32	112.60
1	lO	201	ILE	O-C-N	-6.28	114.71	121.80
1	2p	120	HIS	O-C-N	-6.28	115.17	122.95
1	2r	226	HIS	N-CA-C	-6.28	102.90	111.56
1	2w	110	THR	CA-C-N	6.28	128.69	120.28
1	2w	110	THR	C-N-CA	6.28	128.69	120.28
1	2x	33	SER	N-CA-C	-6.28	102.48	108.07
1	2x	103	ASP	CA-C-O	-6.28	113.90	120.55
1	2M	55	MET	N-CA-C	6.28	118.64	111.11
1	2N	4	GLN	N-CA-C	6.28	119.09	110.24
1	2O	1	PRO	CA-N-CD	-6.28	103.21	112.00
1	39	60	GLY	O-C-N	-6.28	115.12	122.34
1	39	212	GLU	N-CA-C	6.28	118.20	111.36
1	3o	178	SER	O-C-N	-6.28	115.41	122.75
1	3S	37	ILE	CA-C-N	6.28	125.84	119.19
1	3S	37	ILE	C-N-CA	6.28	125.84	119.19
1	45	86	VAL	O-C-N	-6.28	116.27	122.67
1	4n	207	PRO	CA-C-O	6.28	127.79	119.00
1	4t	12	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	4w	14	ALA	N-CA-CB	-6.28	100.81	110.04
1	4M	183	ASN	CA-CB-CG	6.28	118.88	112.60
1	4P	61	GLY	N-CA-C	6.28	120.66	112.25
1	4T	142	VAL	O-C-N	-6.28	114.71	121.80
1	5f	45	GLU	CB-CG-CD	6.28	123.27	112.60
1	5l	208	ALA	O-C-N	-6.28	113.80	122.46
1	5l	229	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	5F	64	ALA	O-C-N	-6.28	115.31	122.09
1	5Q	12	HIS	N-CA-C	6.28	118.89	110.35
1	5S	64	ALA	N-CA-C	6.28	118.12	111.28
1	5S	178	SER	N-CA-CB	6.28	119.27	110.04
1	69	197	ASP	N-CA-C	6.28	117.79	111.07
1	6t	33	SER	CA-C-O	-6.28	112.82	120.54
1	6X	211	LEU	CA-C-N	6.28	128.69	120.28
1	6X	211	LEU	C-N-CA	6.28	128.69	120.28
1	75	141	ILE	CA-C-O	-6.28	114.42	120.95
1	75	158	LYS	N-CA-CB	-6.28	100.89	110.12
1	7E	214	MET	N-CA-C	6.28	117.92	111.14
1	7W	171	THR	CA-C-N	6.28	129.21	120.29
1	7W	171	THR	C-N-CA	6.28	129.21	120.29
1	80	162	ARG	NE-CZ-NH2	6.28	124.85	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	87	90	PRO	O-C-N	-6.28	115.31	122.91
1	8r	132	ARG	N-CA-C	6.28	118.12	111.28
1	8u	212	GLU	N-CA-C	6.28	118.92	111.33
1	8x	16	SER	O-C-N	-6.28	115.34	121.18
1	8W	104	ILE	N-CA-C	6.28	117.78	110.62
1	97	184	TRP	CA-C-N	6.28	128.69	120.28
1	97	184	TRP	C-N-CA	6.28	128.69	120.28
1	9i	167	ARG	NH1-CZ-NH2	-6.28	111.14	119.30
1	9l	138	LEU	CA-C-O	-6.28	114.23	120.82
1	9z	42	ALA	O-C-N	-6.28	114.88	122.22
1	9C	198	CYS	N-CA-C	6.28	118.20	111.36
1	9E	206	GLY	CA-C-N	6.28	126.82	120.04
1	9E	206	GLY	C-N-CA	6.28	126.82	120.04
1	9U	171	THR	CA-C-O	6.28	127.20	120.55
1	a1	223	GLY	O-C-N	-6.28	115.49	121.77
1	aa	119	THR	CA-CB-OG1	6.28	119.02	109.60
1	ak	203	LYS	N-CA-C	6.28	117.79	111.07
1	12	120	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	aC	170	LYS	O-C-N	-6.28	115.56	122.09
1	15	73	ILE	N-CA-C	6.28	117.02	110.62
1	bd	166	ASP	CA-C-N	6.28	128.69	120.28
1	bd	166	ASP	C-N-CA	6.28	128.69	120.28
1	bf	175	GLU	CA-C-O	6.28	127.14	120.36
1	bi	130	TYR	N-CA-CB	-6.28	100.64	110.06
1	bx	20	LEU	CA-C-O	6.28	127.20	120.55
1	1a	154	ARG	CA-C-N	6.28	130.82	121.72
1	1a	154	ARG	C-N-CA	6.28	130.82	121.72
1	bP	70	LYS	N-CA-C	6.28	118.12	111.28
1	bU	66	MET	CB-CA-C	6.28	121.16	110.74
1	bZ	67	GLN	N-CA-C	6.28	117.79	111.07
1	c3	226	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	cf	62	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	cl	133	TRP	N-CA-C	6.28	118.12	111.28
1	cu	228	ALA	O-C-N	-6.28	114.81	122.34
1	cD	181	VAL	CB-CA-C	6.28	120.00	111.97
1	d9	125	PRO	CB-CA-C	6.28	121.92	111.56
1	1l	34	PRO	CA-C-N	6.28	128.69	120.28
1	1l	34	PRO	C-N-CA	6.28	128.69	120.28
1	dI	141	ILE	CA-C-N	6.28	128.47	120.56
1	dI	141	ILE	C-N-CA	6.28	128.47	120.56
1	f1	12	HIS	CB-CG-CD2	-6.28	123.04	131.20
1	fd	5	ASN	N-CA-C	6.28	118.82	109.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	139	ASN	O-C-N	6.28	128.54	122.07
1	1	100	ARG	NE-CZ-NH2	-6.28	113.55	119.20
1	l	141	ILE	N-CA-C	6.28	116.95	110.36
1	N	136	LEU	N-CA-C	6.28	118.12	111.28
1	X	183	ASN	CA-C-N	6.28	129.20	120.29
1	X	183	ASN	C-N-CA	6.28	129.20	120.29
1	1C	15	ILE	N-CA-C	6.28	118.67	109.63
1	gt	84	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	gD	216	THR	CA-C-N	6.28	129.67	120.82
1	gD	216	THR	C-N-CA	6.28	129.67	120.82
1	gZ	161	PHE	CA-C-N	6.28	128.60	120.44
1	gZ	161	PHE	C-N-CA	6.28	128.60	120.44
1	he	33	SER	CA-C-O	-6.28	114.85	120.56
1	hf	228	ALA	N-CA-C	-6.28	103.67	113.02
1	hq	180	GLU	N-CA-C	6.28	118.12	111.28
1	i2	219	GLN	OE1-CD-NE2	-6.28	116.32	122.60
1	1O	35	GLU	N-CA-C	6.28	120.04	112.38
1	iB	124	ILE	CA-C-O	-6.28	113.05	119.89
1	iH	33	SER	CA-C-N	6.28	127.69	119.84
1	iH	33	SER	C-N-CA	6.28	127.69	119.84
1	iP	62	HIS	O-C-N	-6.28	114.72	122.57
1	jG	50	GLN	CG-CD-NE2	6.28	125.81	116.40
1	kj	173	ARG	NE-CZ-NH1	6.28	127.78	121.50
1	kl	80	TRP	N-CA-C	6.28	118.12	111.28
1	ky	116	GLY	O-C-N	6.28	128.28	122.19
1	kG	47	ALA	N-CA-C	6.28	119.09	110.24
1	kG	145	TYR	CA-C-N	6.28	128.67	120.26
1	kG	145	TYR	C-N-CA	6.28	128.67	120.26
1	kL	220	GLY	CA-C-O	6.28	125.94	118.97
1	lb	149	SER	O-C-N	-6.28	115.87	122.96
1	lj	78	ALA	N-CA-C	6.28	118.92	111.33
1	lr	112	GLN	N-CA-C	6.28	118.12	111.28
1	lC	103	ASP	CA-CB-CG	-6.28	106.33	112.60
1	lO	43	LEU	O-C-N	-6.28	113.27	122.43
1	lQ	74	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	2i	150	ILE	CB-CA-C	6.28	118.77	111.55
1	2j	27	VAL	N-CA-C	6.28	116.43	110.53
1	2l	179	GLN	N-CA-C	6.28	118.12	111.28
1	2o	50	GLN	N-CA-C	6.28	117.78	111.07
1	2v	179	GLN	N-CA-C	6.28	118.64	111.11
1	2U	145	TYR	O-C-N	-6.28	114.20	122.42
1	36	153	ILE	O-C-N	-6.28	115.86	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	197	ASP	CA-C-N	6.28	129.01	120.54
1	39	197	ASP	C-N-CA	6.28	129.01	120.54
1	3s	97	ARG	CG-CD-NE	-6.28	98.19	112.00
1	3s	185	MET	CA-C-N	6.28	128.94	120.65
1	3s	185	MET	C-N-CA	6.28	128.94	120.65
1	3A	124	ILE	CA-C-O	-6.28	113.60	119.62
1	41	111	LEU	N-CA-C	6.28	118.92	111.33
1	4e	143	ARG	CA-C-N	6.28	128.69	120.28
1	4e	143	ARG	C-N-CA	6.28	128.69	120.28
1	4i	179	GLN	N-CA-C	6.28	118.12	111.28
1	4m	84	HIS	ND1-CE1-NE2	6.28	114.67	108.40
1	4w	20	LEU	N-CA-C	6.28	118.92	111.33
1	4w	150	ILE	CA-C-O	6.28	126.76	119.36
1	4T	75	GLU	CA-C-N	6.28	129.20	120.29
1	4T	75	GLU	C-N-CA	6.28	129.20	120.29
1	4T	134	ILE	CA-C-O	-6.28	114.52	121.17
1	4Y	108	THR	CA-C-O	6.28	126.04	119.14
1	4Z	114	GLN	O-C-N	-6.28	115.56	122.09
1	5a	120	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	5d	96	MET	CA-C-N	6.28	130.22	120.75
1	5d	96	MET	C-N-CA	6.28	130.22	120.75
1	5y	170	LYS	CA-C-N	6.28	128.69	120.28
1	5y	170	LYS	C-N-CA	6.28	128.69	120.28
1	5L	67	GLN	CB-CG-CD	6.28	123.27	112.60
1	6A	110	THR	CA-C-N	6.28	128.69	120.28
1	6A	110	THR	C-N-CA	6.28	128.69	120.28
1	6A	121	ASN	CA-CB-CG	-6.28	106.33	112.60
1	6T	73	ILE	CA-C-O	6.28	127.48	120.95
1	6V	5	ASN	OD1-CG-ND2	-6.28	116.33	122.60
1	72	161	PHE	O-C-N	-6.28	115.56	122.09
1	7b	87	HIS	N-CA-C	6.28	119.33	110.23
1	7f	199	LYS	CA-C-O	-6.28	113.90	120.55
1	7l	82	ARG	CA-C-O	6.28	127.19	119.97
1	7v	98	GLU	CB-CG-CD	6.28	123.27	112.60
1	7A	52	LEU	N-CA-C	6.28	118.12	111.28
1	7P	64	ALA	CA-C-N	6.28	128.60	120.44
1	7P	64	ALA	C-N-CA	6.28	128.60	120.44
1	86	36	VAL	CA-C-N	6.28	126.45	120.43
1	86	36	VAL	C-N-CA	6.28	126.45	120.43
1	87	115	ILE	O-C-N	6.28	127.96	121.87
1	8O	155	GLN	O-C-N	-6.28	115.87	123.27
1	96	25	LYS	CA-C-N	6.28	128.59	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	96	25	LYS	C-N-CA	6.28	128.59	120.56
1	99	18	ARG	N-CA-C	-6.28	104.36	111.14
1	9c	19	THR	N-CA-C	6.28	118.92	111.33
1	9h	120	HIS	N-CA-C	6.28	118.13	110.41
1	9l	79	GLU	N-CA-C	6.28	118.12	111.28
1	9v	38	PRO	N-CA-C	6.28	125.40	112.47
1	9w	142	VAL	CB-CA-C	-6.28	103.67	112.14
1	9G	35	GLU	N-CA-CB	6.28	120.81	110.39
1	9Q	120	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	9U	183	ASN	CA-C-N	6.28	128.69	120.28
1	9U	183	ASN	C-N-CA	6.28	128.69	120.28
1	9X	111	LEU	CA-C-N	6.28	129.01	120.54
1	9X	111	LEU	C-N-CA	6.28	129.01	120.54
1	ad	129	ILE	CA-CB-CG1	6.28	121.07	110.40
1	ad	147	PRO	N-CA-CB	6.28	109.84	103.25
1	ae	133	TRP	CB-CG-CD1	-6.28	117.49	126.90
1	ak	183	ASN	CA-C-N	6.28	128.60	120.44
1	ak	183	ASN	C-N-CA	6.28	128.60	120.44
1	av	110	THR	N-CA-CB	6.28	119.41	110.44
1	az	50	GLN	N-CA-C	6.28	118.12	111.28
1	aE	120	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
1	b1	93	PRO	N-CA-C	6.28	121.07	111.15
1	b5	51	ASP	CA-C-O	6.28	127.41	120.82
1	bq	192	GLN	CA-C-O	-6.28	113.68	121.02
1	bE	2	ILE	N-CA-C	-6.28	99.39	108.36
1	c3	82	ARG	NE-CZ-NH2	6.28	124.85	119.20
1	c8	58	THR	CA-C-N	6.28	129.93	120.77
1	c8	58	THR	C-N-CA	6.28	129.93	120.77
1	c9	104	ILE	N-CA-C	6.28	117.06	110.72
1	c9	173	ARG	O-C-N	-6.28	115.61	122.07
1	cv	177	ALA	N-CA-C	6.28	118.89	110.35
1	cI	12	HIS	CA-CB-CG	-6.28	107.52	113.80
1	cY	118	MET	CA-C-O	6.28	127.09	119.31
1	cZ	24	VAL	N-CA-C	6.28	117.06	110.72
1	d1	38	PRO	N-CA-CB	6.28	109.84	103.25
1	da	101	GLY	CA-C-N	6.28	128.69	120.28
1	da	101	GLY	C-N-CA	6.28	128.69	120.28
1	dg	194	ALA	CA-C-N	6.28	129.11	120.39
1	dg	194	ALA	C-N-CA	6.28	129.11	120.39
1	dq	102	SER	CA-C-N	6.28	128.97	120.44
1	dq	102	SER	C-N-CA	6.28	128.97	120.44
1	du	86	VAL	O-C-N	-6.28	115.77	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dH	13	GLN	OE1-CD-NE2	-6.28	116.33	122.60
1	dK	120	HIS	CA-CB-CG	6.28	120.08	113.80
1	ee	181	VAL	N-CA-C	6.28	117.02	110.62
1	ez	201	ILE	CA-C-N	6.28	129.32	120.28
1	ez	201	ILE	C-N-CA	6.28	129.32	120.28
1	eH	47	ALA	N-CA-C	6.28	119.45	110.10
1	f5	12	HIS	ND1-CE1-NE2	6.28	114.68	108.40
1	1z	137	GLY	CA-C-O	6.28	127.20	120.30
1	fP	75	GLU	O-C-N	-6.28	115.47	122.12
1	fV	43	LEU	N-CA-C	6.28	118.12	111.28
1	g3	103	ASP	CA-C-N	6.28	129.06	120.46
1	g3	103	ASP	C-N-CA	6.28	129.06	120.46
1	o	86	VAL	CA-C-N	6.28	130.79	120.94
1	o	86	VAL	C-N-CA	6.28	130.79	120.94
1	K	34	PRO	CA-C-N	6.28	129.32	120.28
1	K	34	PRO	C-N-CA	6.28	129.32	120.28
1	K	177	ALA	N-CA-C	6.28	118.89	110.35
1	gt	48	THR	CA-C-N	6.27	126.47	119.32
1	gt	48	THR	C-N-CA	6.27	126.47	119.32
1	1E	197	ASP	CA-CB-CG	-6.27	106.33	112.60
1	1F	19	THR	O-C-N	-6.27	115.00	122.15
1	hC	217	ALA	CA-C-O	6.27	127.77	120.49
1	hH	139	ASN	CA-C-O	6.27	127.20	120.55
1	i8	120	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	iA	145	TYR	N-CA-C	-6.27	105.57	112.72
1	j6	27	VAL	N-CA-C	6.27	116.44	110.42
1	jR	198	CYS	CA-C-O	6.27	127.09	119.31
1	k1	97	ARG	NE-CZ-NH2	-6.27	113.55	119.20
1	kP	140	LYS	CB-CA-C	6.27	122.24	110.63
1	kT	27	VAL	N-CA-C	6.27	116.43	110.53
1	l7	62	HIS	ND1-CG-CD2	6.27	112.37	106.10
1	lF	39	MET	N-CA-C	6.27	118.12	111.28
1	2c	195	ASN	OD1-CG-ND2	6.27	128.87	122.60
1	30	114	GLN	N-CA-C	6.27	118.20	111.36
1	3I	163	ASP	CA-CB-CG	6.27	118.87	112.60
1	3J	148	THR	CA-CB-CG2	6.27	121.17	110.50
1	3O	13	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	46	87	HIS	CA-CB-CG	-6.27	107.53	113.80
1	4p	140	LYS	CA-C-N	6.27	129.06	120.46
1	4p	140	LYS	C-N-CA	6.27	129.06	120.46
1	5c	166	ASP	N-CA-CB	-6.27	100.91	110.01
1	6c	59	VAL	N-CA-C	6.27	117.06	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	104	ILE	O-C-N	6.27	128.29	121.83
1	81	103	ASP	CA-C-N	6.27	128.47	120.56
1	81	103	ASP	C-N-CA	6.27	128.47	120.56
1	8D	214	MET	CA-C-O	6.27	127.23	120.20
1	8Z	50	GLN	CA-C-N	6.27	128.60	120.44
1	8Z	50	GLN	C-N-CA	6.27	128.60	120.44
1	95	62	HIS	CA-CB-CG	6.27	120.07	113.80
1	98	73	ILE	CA-C-N	6.27	128.60	120.44
1	98	73	ILE	C-N-CA	6.27	128.60	120.44
1	9h	208	ALA	O-C-N	-6.27	114.25	122.59
1	9K	191	VAL	CA-C-N	6.27	129.20	120.29
1	9K	191	VAL	C-N-CA	6.27	129.20	120.29
1	a4	84	HIS	O-C-N	-6.27	117.69	121.71
1	ac	121	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	aL	190	LEU	CA-C-N	6.27	129.06	120.46
1	aL	190	LEU	C-N-CA	6.27	129.06	120.46
1	bD	33	SER	N-CA-C	-6.27	98.76	108.55
1	cc	89	GLY	N-CA-C	6.27	125.14	112.34
1	d2	18	ARG	CA-C-O	6.27	127.07	120.42
1	da	37	ILE	CA-C-N	6.27	126.18	119.28
1	da	37	ILE	C-N-CA	6.27	126.18	119.28
1	dc	219	GLN	CA-C-N	6.27	125.94	119.92
1	dc	219	GLN	C-N-CA	6.27	125.94	119.92
1	dh	180	GLU	CA-C-N	6.27	128.47	120.56
1	dh	180	GLU	C-N-CA	6.27	128.47	120.56
1	1l	159	GLU	CA-C-O	-6.27	114.18	120.64
1	dV	40	PHE	N-CA-C	6.27	117.78	111.07
1	ed	77	ALA	N-CA-C	6.27	118.12	111.28
1	el	41	SER	CA-C-N	6.27	129.20	120.29
1	el	41	SER	C-N-CA	6.27	129.20	120.29
1	eL	37	ILE	CA-C-O	-6.27	114.49	118.69
1	fm	83	LEU	N-CA-C	6.27	118.20	111.36
1	M	18	ARG	CA-C-N	6.27	129.01	120.54
1	M	18	ARG	C-N-CA	6.27	129.01	120.54
1	P	168	PHE	CA-CB-CG	6.27	120.07	113.80
1	1C	143	ARG	NE-CZ-NH2	-6.27	113.55	119.20
1	gk	7	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	gw	55	MET	O-C-N	-6.27	115.47	122.12
1	gy	143	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	gz	164	TYR	CA-C-N	6.27	128.46	120.56
1	gz	164	TYR	C-N-CA	6.27	128.46	120.56
1	gD	45	GLU	N-CA-C	6.27	117.81	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gE	87	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	gK	50	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	gK	87	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	gR	159	GLU	O-C-N	6.27	127.35	121.27
1	1G	91	ILE	O-C-N	-6.27	116.28	122.93
1	gY	98	GLU	CA-C-O	6.27	124.29	119.46
1	hd	20	LEU	O-C-N	-6.27	115.61	122.07
1	1J	218	CYS	O-C-N	-6.27	115.44	122.91
1	ht	124	ILE	O-C-N	-6.27	113.95	121.10
1	hx	82	ARG	N-CA-C	6.27	118.20	111.36
1	hC	226	HIS	CA-CB-CG	-6.27	107.53	113.80
1	hE	136	LEU	CA-C-N	6.27	126.90	119.94
1	hE	136	LEU	C-N-CA	6.27	126.90	119.94
1	hI	75	GLU	N-CA-C	6.27	117.78	111.07
1	hS	62	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	ia	78	ALA	N-CA-C	6.27	118.92	111.71
1	ig	193	ASN	CB-CG-ND2	-6.27	106.99	116.40
1	im	92	GLU	CA-C-N	6.27	126.22	119.76
1	im	92	GLU	C-N-CA	6.27	126.22	119.76
1	in	125	PRO	O-C-N	-6.27	113.77	122.11
1	it	22	ALA	N-CA-C	6.27	118.12	111.28
1	iR	178	SER	CA-C-N	6.27	129.01	120.54
1	iR	178	SER	C-N-CA	6.27	129.01	120.54
1	iW	166	ASP	O-C-N	6.27	128.77	122.12
1	jr	116	GLY	O-C-N	-6.27	115.92	122.13
1	jw	146	SER	N-CA-C	6.27	121.28	112.75
1	jZ	40	PHE	N-CA-C	-6.27	104.44	111.28
1	1Z	62	HIS	O-C-N	-6.27	114.77	122.55
1	k7	133	TRP	CA-C-O	6.27	127.07	120.42
1	kK	82	ARG	NE-CZ-NH1	-6.27	115.23	121.50
1	kV	121	ASN	CB-CA-C	6.27	118.54	110.13
1	l1	137	GLY	N-CA-C	6.27	119.78	112.50
1	l6	140	LYS	CA-C-N	6.27	128.46	120.56
1	l6	140	LYS	C-N-CA	6.27	128.46	120.56
1	lh	100	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	li	152	ASP	CA-CB-CG	6.27	118.87	112.60
1	lm	87	HIS	N-CA-C	6.27	118.81	110.53
1	lp	68	MET	N-CA-C	6.27	118.12	111.28
1	lv	51	ASP	CA-C-N	6.27	129.20	120.29
1	lv	51	ASP	C-N-CA	6.27	129.20	120.29
1	lH	216	THR	O-C-N	-6.27	114.50	122.34
1	2c	5	ASN	N-CA-C	6.27	118.20	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2P	133	TRP	CD2-CE3-CZ3	6.27	126.75	118.60
1	39	12	HIS	CB-CA-C	-6.27	98.93	109.53
1	3t	229	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	3w	62	HIS	N-CA-C	6.27	124.16	110.80
1	3M	176	GLN	CA-C-N	6.27	130.04	120.82
1	3M	176	GLN	C-N-CA	6.27	130.04	120.82
1	45	166	ASP	N-CA-C	6.27	118.12	111.28
1	49	33	SER	CA-C-N	6.27	126.75	119.47
1	49	33	SER	C-N-CA	6.27	126.75	119.47
1	4d	70	LYS	N-CA-C	6.27	118.12	111.28
1	4k	48	THR	CA-CB-OG1	6.27	119.01	109.60
1	4C	63	GLN	N-CA-C	6.27	117.78	111.07
1	4D	85	PRO	N-CA-C	6.27	121.06	111.15
1	4I	77	ALA	N-CA-C	6.27	121.72	111.37
1	5l	150	ILE	O-C-N	-6.27	115.78	121.87
1	5s	84	HIS	O-C-N	-6.27	114.40	121.43
1	5Y	36	VAL	O-C-N	-6.27	115.78	121.87
1	62	117	TRP	CA-C-N	6.27	129.84	120.31
1	62	117	TRP	C-N-CA	6.27	129.84	120.31
1	6g	47	ALA	CA-C-O	6.27	128.18	121.16
1	6s	3	VAL	CB-CA-C	6.27	120.25	111.34
1	6w	109	SER	O-C-N	-6.27	115.89	123.29
1	6Q	185	MET	O-C-N	-6.27	115.57	122.09
1	71	39	MET	N-CA-C	6.27	118.64	111.11
1	7c	165	VAL	N-CA-C	6.27	116.43	110.53
1	7z	1	PRO	CA-N-CD	-6.27	103.22	112.00
1	7z	181	VAL	N-CA-CB	6.27	117.89	110.55
1	82	33	SER	N-CA-C	6.27	119.11	110.01
1	89	214	MET	O-C-N	-6.27	115.00	122.15
1	8b	130	TYR	CA-C-N	6.27	128.69	120.28
1	8b	130	TYR	C-N-CA	6.27	128.69	120.28
1	8t	97	ARG	O-C-N	-6.27	115.34	122.68
1	8v	223	GLY	CA-C-N	6.27	127.68	119.84
1	8v	223	GLY	C-N-CA	6.27	127.68	119.84
1	8x	26	VAL	N-CA-CB	-6.27	102.54	110.57
1	8R	145	TYR	CB-CG-CD1	-6.27	111.39	120.80
1	93	230	VAL	N-CA-CB	6.27	117.78	110.82
1	9c	50	GLN	CA-C-N	6.27	129.20	120.29
1	9c	50	GLN	C-N-CA	6.27	129.20	120.29
1	9n	53	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	9t	12	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	9A	6	LEU	CA-C-O	-6.27	111.54	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	27	VAL	CA-C-N	6.27	128.59	120.44
1	9F	27	VAL	C-N-CA	6.27	128.59	120.44
1	9X	162	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	ac	200	THR	O-C-N	6.27	128.77	122.12
1	an	79	GLU	CA-C-N	6.27	128.59	120.44
1	an	79	GLU	C-N-CA	6.27	128.59	120.44
1	14	171	THR	O-C-N	-6.27	115.61	122.07
1	b5	175	GLU	CA-C-N	6.27	129.84	120.31
1	b5	175	GLU	C-N-CA	6.27	129.84	120.31
1	ba	82	ARG	N-CA-CB	6.27	119.11	110.01
1	bc	98	GLU	CA-C-O	-6.27	114.44	119.71
1	bi	39	MET	N-CA-C	6.27	118.12	111.28
1	bl	72	THR	N-CA-CB	6.27	119.34	110.12
1	bC	63	GLN	CA-CB-CG	6.27	126.64	114.10
1	cd	167	ARG	CA-C-N	6.27	128.59	120.44
1	cd	167	ARG	C-N-CA	6.27	128.59	120.44
1	cd	213	GLU	CA-C-N	6.27	128.97	120.38
1	cd	213	GLU	C-N-CA	6.27	128.97	120.38
1	1d	195	ASN	O-C-N	-6.27	114.11	121.32
1	cs	144	MET	N-CA-C	6.27	118.92	111.33
1	cU	137	GLY	CA-C-N	6.27	128.68	120.28
1	cU	137	GLY	C-N-CA	6.27	128.68	120.28
1	d7	112	GLN	N-CA-C	6.27	118.92	111.33
1	da	173	ARG	O-C-N	-6.27	115.61	122.07
1	dd	192	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	df	84	HIS	CA-C-N	6.27	126.64	119.93
1	df	84	HIS	C-N-CA	6.27	126.64	119.93
1	ds	59	VAL	N-CA-C	6.27	116.44	110.42
1	ds	167	ARG	N-CA-C	6.27	117.78	111.07
1	dQ	55	MET	N-CA-C	6.27	119.78	111.75
1	dR	199	LYS	CA-C-N	6.27	128.68	120.28
1	dR	199	LYS	C-N-CA	6.27	128.68	120.28
1	1o	30	LYS	N-CA-C	6.27	120.67	112.89
1	e6	137	GLY	O-C-N	-6.27	116.17	122.19
1	ek	16	SER	CA-C-N	6.27	127.68	119.84
1	ek	16	SER	C-N-CA	6.27	127.68	119.84
1	en	177	ALA	CA-C-N	6.27	129.78	120.87
1	en	177	ALA	C-N-CA	6.27	129.78	120.87
1	ep	50	GLN	O-C-N	-6.27	115.47	122.12
1	ey	132	ARG	CA-C-N	6.27	129.20	120.29
1	ey	132	ARG	C-N-CA	6.27	129.20	120.29
1	1s	195	ASN	CB-CG-OD1	6.27	133.35	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eK	100	ARG	CA-C-N	6.27	127.06	120.03
1	eK	100	ARG	C-N-CA	6.27	127.06	120.03
1	eQ	160	PRO	CA-C-N	6.27	128.97	120.38
1	eQ	160	PRO	C-N-CA	6.27	128.97	120.38
1	eZ	154	ARG	O-C-N	-6.27	116.24	123.33
1	ff	132	ARG	O-C-N	-6.27	115.61	122.07
1	fs	81	ASP	CA-CB-CG	6.27	118.87	112.60
1	fu	58	THR	O-C-N	-6.27	114.78	122.25
1	fG	47	ALA	N-CA-C	6.27	119.33	110.23
1	1z	90	PRO	N-CA-C	6.27	125.39	112.47
1	fP	204	ALA	N-CA-C	6.27	117.78	111.07
1	m	62	HIS	N-CA-C	6.27	119.83	111.30
1	z	50	GLN	CB-CA-C	-6.27	100.38	110.79
1	J	20	LEU	N-CA-CB	6.27	119.34	110.12
1	ge	215	MET	CA-C-N	6.27	128.59	120.44
1	ge	215	MET	C-N-CA	6.27	128.59	120.44
1	gI	20	LEU	CA-C-N	6.27	128.59	120.44
1	gI	20	LEU	C-N-CA	6.27	128.59	120.44
1	1G	204	ALA	N-CA-C	-6.27	104.55	111.82
1	gW	169	TYR	N-CA-CB	6.27	119.96	110.30
1	h5	142	VAL	CA-CB-CG2	-6.27	99.74	110.40
1	ha	171	THR	CA-C-N	6.27	129.84	120.31
1	ha	171	THR	C-N-CA	6.27	129.84	120.31
1	hu	85	PRO	CA-C-N	6.27	133.26	121.97
1	hu	85	PRO	C-N-CA	6.27	133.26	121.97
1	hN	120	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	hX	120	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	i0	143	ARG	N-CA-C	6.27	118.12	111.28
1	iB	57	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	iB	110	THR	CA-CB-OG1	6.27	119.01	109.60
1	iY	54	THR	CA-C-N	6.27	129.01	120.54
1	iY	54	THR	C-N-CA	6.27	129.01	120.54
1	1T	105	ALA	CA-C-O	6.27	126.87	119.28
1	1U	181	VAL	CA-C-N	6.27	128.68	120.28
1	1U	181	VAL	C-N-CA	6.27	128.68	120.28
1	jk	81	ASP	CA-CB-CG	6.27	118.87	112.60
1	jv	32	PHE	N-CA-C	-6.27	105.21	112.92
1	jW	162	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	23	108	THR	CB-CA-C	-6.27	99.85	110.64
1	26	157	PRO	CA-C-N	6.27	132.64	122.67
1	26	157	PRO	C-N-CA	6.27	132.64	122.67
1	2f	139	ASN	OD1-CG-ND2	-6.27	116.33	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2k	24	VAL	N-CA-C	6.27	117.02	110.62
1	2E	186	THR	CA-C-N	6.27	128.68	120.28
1	2E	186	THR	C-N-CA	6.27	128.68	120.28
1	2X	226	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	3a	147	PRO	N-CA-C	6.27	120.69	111.03
1	3d	78	ALA	O-C-N	-6.27	115.47	122.12
1	3i	82	ARG	N-CA-CB	6.27	119.10	110.01
1	3l	192	GLN	N-CA-CB	-6.27	100.88	110.16
1	3E	58	THR	N-CA-CB	6.27	119.34	110.12
1	3Q	50	GLN	O-C-N	6.27	128.77	122.12
1	3U	91	ILE	N-CA-C	6.27	116.95	108.17
1	4o	187	GLU	N-CA-C	6.27	117.78	111.07
1	4A	100	ARG	NE-CZ-NH2	-6.27	113.56	119.20
1	4O	74	ASN	N-CA-C	6.27	117.91	111.14
1	4O	107	THR	CB-CA-C	-6.27	100.33	110.74
1	4Z	89	GLY	CA-C-N	6.27	126.29	119.89
1	4Z	89	GLY	C-N-CA	6.27	126.29	119.89
1	4Z	191	VAL	CA-C-O	-6.27	113.33	119.92
1	57	12	HIS	N-CA-C	6.27	119.32	110.23
1	5z	135	ILE	CA-C-N	6.27	129.01	120.54
1	5z	135	ILE	C-N-CA	6.27	129.01	120.54
1	5H	82	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	64	43	LEU	CA-C-O	6.27	127.19	119.79
1	6y	32	PHE	CA-CB-CG	-6.27	107.53	113.80
1	6I	32	PHE	CA-C-O	6.27	127.76	120.49
1	7S	136	LEU	CA-C-N	6.27	126.90	120.00
1	7S	136	LEU	C-N-CA	6.27	126.90	120.00
1	8Z	107	THR	CB-CA-C	6.27	120.57	110.16
1	94	226	HIS	ND1-CE1-NE2	6.27	114.67	108.40
1	as	183	ASN	CA-CB-CG	6.27	118.87	112.60
1	aB	181	VAL	O-C-N	-6.27	115.79	121.87
1	aM	42	ALA	CA-C-O	6.27	127.20	120.55
1	14	124	ILE	O-C-N	-6.27	115.15	120.92
1	15	191	VAL	N-CA-C	6.27	118.53	111.88
1	bi	156	GLY	O-C-N	-6.27	115.50	121.77
1	bq	183	ASN	O-C-N	-6.27	115.61	122.07
1	bt	93	PRO	N-CA-CB	6.27	108.83	103.19
1	ds	173	ARG	N-CA-C	6.27	119.09	111.82
1	dw	100	ARG	O-C-N	-6.27	115.92	122.94
1	dG	68	MET	CA-C-O	6.27	127.40	120.82
1	e5	206	GLY	CA-C-N	6.27	126.18	119.28
1	e5	206	GLY	C-N-CA	6.27	126.18	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	168	PHE	CA-CB-CG	6.27	120.07	113.80
1	f6	151	LEU	O-C-N	-6.27	115.47	122.12
1	1x	118	MET	CA-C-N	6.27	128.97	120.44
1	1x	118	MET	C-N-CA	6.27	128.97	120.44
1	fz	181	VAL	CA-C-N	6.27	129.01	120.54
1	fz	181	VAL	C-N-CA	6.27	129.01	120.54
1	fE	201	ILE	CA-C-O	6.27	127.82	121.17
1	fT	160	PRO	N-CA-CB	6.27	109.83	103.25
1	f	91	ILE	CB-CA-C	-6.27	103.57	112.22
1	p	199	LYS	N-CA-C	6.27	118.92	111.71
1	W	213	GLU	O-C-N	-6.27	115.47	122.12
1	gv	130	TYR	N-CA-CB	6.27	119.10	110.01
1	h5	101	GLY	CA-C-O	6.27	127.21	120.75
1	hs	56	LEU	CA-C-O	6.27	127.07	120.42
1	hs	205	LEU	CA-C-N	6.27	131.71	121.87
1	hs	205	LEU	C-N-CA	6.27	131.71	121.87
1	hR	48	THR	N-CA-C	-6.27	102.79	110.31
1	in	80	TRP	N-CA-C	6.27	118.11	111.28
1	io	155	GLN	N-CA-C	6.27	119.44	110.10
1	iq	212	GLU	CA-C-O	6.27	127.18	120.10
1	iC	229	ARG	NE-CZ-NH2	-6.27	113.56	119.20
1	j9	68	MET	CA-C-O	6.27	127.07	120.42
1	ju	139	ASN	N-CA-C	6.27	118.63	111.11
1	jD	16	SER	O-C-N	-6.27	114.77	121.42
1	jI	147	PRO	O-C-N	-6.27	115.80	123.01
1	jR	2	ILE	N-CA-CB	6.27	117.36	110.53
1	jX	100	ARG	O-C-N	-6.27	114.43	122.20
1	k8	165	VAL	N-CA-C	6.27	117.02	110.62
1	kJ	5	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	kP	22	ALA	CA-C-N	6.27	128.68	120.28
1	kP	22	ALA	C-N-CA	6.27	128.68	120.28
1	kW	11	VAL	CA-C-O	6.27	127.93	121.28
1	kZ	177	ALA	CB-CA-C	6.27	120.37	109.65
1	l1	205	LEU	CA-C-N	6.27	131.72	121.87
1	l1	205	LEU	C-N-CA	6.27	131.72	121.87
1	lz	197	ASP	CA-CB-CG	-6.27	106.33	112.60
1	lM	179	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	lR	109	SER	CA-C-O	6.27	127.36	120.71
1	2n	42	ALA	N-CA-C	6.27	119.09	111.82
1	2r	114	GLN	CA-C-N	6.27	128.69	120.60
1	2r	114	GLN	C-N-CA	6.27	128.69	120.60
1	2r	159	GLU	N-CA-C	6.27	118.72	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	203	LYS	N-CA-C	6.27	118.11	111.28
1	2R	195	ASN	CA-C-N	6.27	126.47	119.32
1	2R	195	ASN	C-N-CA	6.27	126.47	119.32
1	36	198	CYS	N-CA-C	6.27	118.19	111.36
1	3x	7	GLN	CA-C-N	6.27	130.16	120.07
1	3x	7	GLN	C-N-CA	6.27	130.16	120.07
1	3y	219	GLN	CA-C-O	-6.27	113.90	121.05
1	3E	152	ASP	O-C-N	-6.27	114.50	122.34
1	3H	15	ILE	O-C-N	-6.27	114.73	122.57
1	3L	84	HIS	CA-C-O	-6.27	115.21	119.29
1	4C	64	ALA	N-CA-CB	-6.27	100.56	110.22
1	4S	159	GLU	O-C-N	-6.27	114.63	121.53
1	4S	176	GLN	CA-C-N	6.27	133.52	121.54
1	4S	176	GLN	C-N-CA	6.27	133.52	121.54
1	4Y	201	ILE	N-CA-CB	6.27	117.89	110.55
1	4Z	218	CYS	CA-C-N	6.27	129.77	120.87
1	4Z	218	CYS	C-N-CA	6.27	129.77	120.87
1	51	131	LYS	N-CA-C	6.27	118.92	111.33
1	57	154	ARG	N-CA-C	6.27	117.75	108.60
1	5c	36	VAL	N-CA-C	6.27	117.02	110.62
1	5e	90	PRO	N-CA-C	6.27	125.39	112.47
1	5q	58	THR	N-CA-C	-6.27	105.95	113.97
1	5v	9	GLN	N-CA-C	6.27	119.30	109.96
1	5F	209	ALA	O-C-N	-6.27	115.18	122.95
1	5M	182	LYS	CA-C-N	6.27	128.97	120.38
1	5M	182	LYS	C-N-CA	6.27	128.97	120.38
1	5W	198	CYS	CA-C-O	6.27	126.30	119.15
1	5X	132	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	62	169	TYR	N-CA-C	6.27	118.19	111.36
1	68	51	ASP	CA-C-N	6.27	129.00	120.54
1	68	51	ASP	C-N-CA	6.27	129.00	120.54
1	69	31	ALA	O-C-N	-6.27	114.25	122.59
1	6a	184	TRP	N-CA-C	6.27	117.78	111.07
1	6g	184	TRP	CB-CG-CD1	-6.27	117.50	126.90
1	6u	31	ALA	CA-C-N	6.27	132.49	122.83
1	6u	31	ALA	C-N-CA	6.27	132.49	122.83
1	6w	35	GLU	CA-C-O	6.27	127.20	119.05
1	6P	18	ARG	NE-CZ-NH2	-6.27	113.56	119.20
1	6Q	13	GLN	CA-C-N	6.27	130.22	120.75
1	6Q	13	GLN	C-N-CA	6.27	130.22	120.75
1	6R	223	GLY	O-C-N	-6.27	116.78	122.42
1	73	198	CYS	CA-C-N	6.27	128.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	198	CYS	C-N-CA	6.27	128.68	120.28
1	7X	218	CYS	CA-C-N	6.27	128.97	120.38
1	7X	218	CYS	C-N-CA	6.27	128.97	120.38
1	8O	216	THR	CA-C-N	6.27	133.52	121.54
1	8O	216	THR	C-N-CA	6.27	133.52	121.54
1	9l	187	GLU	N-CA-C	6.27	117.78	111.07
1	9H	63	GLN	N-CA-C	6.27	118.11	111.28
1	9P	194	ALA	N-CA-C	6.27	118.81	110.53
1	9W	100	ARG	CA-C-N	6.27	126.94	119.98
1	9W	100	ARG	C-N-CA	6.27	126.94	119.98
1	aE	63	GLN	N-CA-C	6.27	118.11	111.28
1	aM	54	THR	N-CA-C	-6.27	104.53	111.36
1	aW	120	HIS	O-C-N	-6.27	115.28	122.68
1	b2	221	VAL	N-CA-CB	6.27	117.55	110.72
1	bj	143	ARG	NE-CZ-NH1	-6.27	115.23	121.50
1	bu	187	GLU	O-C-N	-6.27	115.61	122.07
1	bx	180	GLU	CA-C-N	6.27	128.46	120.56
1	bx	180	GLU	C-N-CA	6.27	128.46	120.56
1	bO	95	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	bV	50	GLN	CA-C-N	6.27	128.59	120.44
1	bV	50	GLN	C-N-CA	6.27	128.59	120.44
1	bW	108	THR	N-CA-C	6.27	120.63	112.92
1	c4	16	SER	O-C-N	-6.27	113.68	121.64
1	c9	228	ALA	N-CA-CB	-6.27	102.62	112.46
1	ce	24	VAL	N-CA-C	6.27	116.94	110.36
1	cB	89	GLY	O-C-N	-6.27	115.50	121.77
1	cF	154	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	cM	146	SER	O-C-N	-6.27	114.41	121.43
1	cV	148	THR	CB-CA-C	-6.27	100.11	110.14
1	d5	81	ASP	N-CA-C	6.27	118.92	111.71
1	1j	133	TRP	N-CA-C	6.27	118.11	111.28
1	dk	26	VAL	CA-C-N	6.27	129.05	120.46
1	dk	26	VAL	C-N-CA	6.27	129.05	120.46
1	dB	113	GLU	CB-CA-C	-6.27	100.38	110.79
1	dF	133	TRP	N-CA-CB	6.27	119.33	110.12
1	dG	158	LYS	O-C-N	-6.27	114.79	122.25
1	dG	163	ASP	N-CA-C	6.27	118.11	111.28
1	eb	81	ASP	N-CA-CB	-6.27	100.90	110.12
1	el	145	TYR	CB-CG-CD1	-6.27	111.40	120.80
1	eE	124	ILE	CA-C-O	-6.27	115.45	119.15
1	eH	225	GLY	N-CA-C	6.27	119.23	112.33
1	eL	67	GLN	CA-C-N	6.27	128.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eL	67	GLN	C-N-CA	6.27	128.68	120.28
1	fh	12	HIS	CA-CB-CG	6.27	120.07	113.80
1	fp	143	ARG	O-C-N	-6.27	115.61	122.07
1	fw	160	PRO	N-CA-C	6.27	121.18	111.21
1	fy	139	ASN	CA-C-N	6.27	128.68	120.28
1	fy	139	ASN	C-N-CA	6.27	128.68	120.28
1	fz	201	ILE	N-CA-C	6.27	117.01	110.62
1	1y	66	MET	O-C-N	-6.27	115.47	122.12
1	fI	78	ALA	N-CA-C	6.27	117.78	111.07
1	fJ	151	LEU	O-C-N	-6.27	115.61	122.07
1	fO	185	MET	CA-C-O	6.27	127.09	119.38
1	fX	163	ASP	CA-CB-CG	6.27	118.87	112.60
1	g1	80	TRP	N-CA-C	6.27	118.92	111.33
1	g4	192	GLN	N-CA-C	6.27	118.92	111.71
1	a	221	VAL	N-CA-CB	6.27	117.70	110.49
1	p	53	ASN	CA-CB-CG	-6.27	106.33	112.60
1	B	134	ILE	CA-C-N	6.27	129.32	120.42
1	B	134	ILE	C-N-CA	6.27	129.32	120.42
1	7	10	MET	N-CA-C	6.27	119.36	109.96
1	1D	139	ASN	CA-C-N	6.27	128.68	120.28
1	1D	139	ASN	C-N-CA	6.27	128.68	120.28
1	gA	37	ILE	O-C-N	-6.27	113.96	121.10
1	gD	182	LYS	CA-C-O	-6.27	114.24	120.82
1	gJ	200	THR	N-CA-CB	6.27	119.33	110.12
1	hd	76	GLU	N-CA-C	6.27	118.19	111.36
1	1J	94	GLY	O-C-N	-6.27	114.55	122.70
1	hJ	167	ARG	CA-C-N	6.27	128.97	120.38
1	hJ	167	ARG	C-N-CA	6.27	128.97	120.38
1	hL	46	GLY	N-CA-C	-6.27	106.04	115.32
1	ib	74	ASN	CA-C-O	6.27	127.06	120.42
1	1Q	226	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	j1	54	THR	OG1-CB-CG2	-6.27	96.76	109.30
1	jw	21	ASN	N-CA-C	6.27	118.63	111.11
1	jF	146	SER	CB-CA-C	-6.27	99.33	109.67
1	jZ	70	LYS	N-CA-C	6.27	118.91	111.33
1	k0	37	ILE	O-C-N	-6.27	115.62	120.07
1	ki	226	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	kr	68	MET	CA-C-N	6.27	128.59	120.44
1	kr	68	MET	C-N-CA	6.27	128.59	120.44
1	ks	92	GLU	CA-C-N	6.27	127.67	119.84
1	ks	92	GLU	C-N-CA	6.27	127.67	119.84
1	kw	103	ASP	CA-C-O	-6.27	114.24	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kE	120	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	l0	80	TRP	CA-C-N	6.27	129.84	120.31
1	l0	80	TRP	C-N-CA	6.27	129.84	120.31
1	l8	184	TRP	CB-CG-CD2	-6.27	118.03	126.80
1	lN	18	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	2f	167	ARG	O-C-N	-6.27	115.48	122.12
1	2i	53	ASN	CB-CA-C	-6.27	100.39	110.79
1	2j	179	GLN	CA-C-O	-6.27	113.86	120.63
1	2l	109	SER	N-CA-C	6.27	118.94	109.41
1	2H	152	ASP	O-C-N	-6.27	114.55	122.26
1	2X	197	ASP	CA-C-N	6.27	129.19	120.29
1	2X	197	ASP	C-N-CA	6.27	129.19	120.29
1	2Y	139	ASN	N-CA-CB	6.27	119.28	109.94
1	3f	166	ASP	CA-C-N	6.27	129.19	120.29
1	3f	166	ASP	C-N-CA	6.27	129.19	120.29
1	3i	164	TYR	CB-CA-C	6.27	121.51	110.85
1	3x	179	GLN	CA-C-O	-6.27	114.24	120.82
1	47	120	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	4o	215	MET	N-CA-C	6.27	117.78	111.07
1	4p	15	ILE	O-C-N	-6.27	116.17	122.62
1	4q	213	GLU	CA-C-N	6.27	129.19	120.29
1	4q	213	GLU	C-N-CA	6.27	129.19	120.29
1	4C	178	SER	CA-C-N	6.27	128.97	120.38
1	4C	178	SER	C-N-CA	6.27	128.97	120.38
1	4M	7	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	4T	74	ASN	CB-CG-ND2	6.27	125.80	116.40
1	51	23	TRP	CB-CG-CD2	6.27	135.57	126.80
1	57	37	ILE	CA-C-N	6.27	125.49	118.97
1	57	37	ILE	C-N-CA	6.27	125.49	118.97
1	5b	19	THR	CA-C-N	6.27	128.59	120.44
1	5b	19	THR	C-N-CA	6.27	128.59	120.44
1	5s	92	GLU	CA-C-O	-6.27	113.87	120.70
1	5x	159	GLU	CA-C-N	6.27	127.68	119.84
1	5x	159	GLU	C-N-CA	6.27	127.68	119.84
1	5T	75	GLU	O-C-N	-6.27	115.61	122.07
1	60	225	GLY	O-C-N	-6.27	114.55	122.70
1	68	184	TRP	O-C-N	-6.27	115.61	122.07
1	6I	36	VAL	O-C-N	-6.27	113.92	122.26
1	71	42	ALA	N-CA-C	-6.27	105.63	113.28
1	77	177	ALA	N-CA-C	6.27	118.39	110.24
1	7j	47	ALA	N-CA-C	6.27	119.86	109.46
1	7s	110	THR	CA-C-N	6.27	131.15	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	110	THR	C-N-CA	6.27	131.15	121.19
1	7x	144	MET	CA-C-N	6.27	131.19	120.72
1	7x	144	MET	C-N-CA	6.27	131.19	120.72
1	7P	201	ILE	N-CA-C	6.27	117.83	111.00
1	8m	205	LEU	CA-C-O	6.27	127.08	119.31
1	8B	50	GLN	N-CA-C	6.27	118.11	111.28
1	8B	213	GLU	N-CA-C	6.27	118.11	111.28
1	8D	127	GLY	CA-C-N	6.27	128.59	120.44
1	8D	127	GLY	C-N-CA	6.27	128.59	120.44
1	8J	61	GLY	CA-C-N	6.27	131.66	122.63
1	8J	61	GLY	C-N-CA	6.27	131.66	122.63
1	8O	69	LEU	N-CA-CB	-6.27	100.98	110.07
1	8V	70	LYS	CA-C-O	6.27	127.40	120.82
1	92	148	THR	N-CA-C	-6.27	99.80	109.14
1	94	93	PRO	N-CA-CB	-6.27	96.67	103.25
1	9j	100	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	9r	16	SER	O-C-N	-6.27	114.84	121.30
1	9C	131	LYS	N-CA-C	-6.27	104.36	111.07
1	9D	193	ASN	OD1-CG-ND2	-6.27	116.33	122.60
1	9X	221	VAL	N-CA-CB	-6.27	103.86	111.00
1	9Y	95	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	a0	82	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	aB	150	ILE	CA-C-N	6.27	128.68	120.28
1	aB	150	ILE	C-N-CA	6.27	128.68	120.28
1	aD	123	PRO	N-CA-C	6.27	121.48	111.26
1	aR	160	PRO	CA-C-N	6.27	128.68	120.28
1	aR	160	PRO	C-N-CA	6.27	128.68	120.28
1	aU	123	PRO	CA-C-N	-6.27	116.50	123.02
1	aU	123	PRO	C-N-CA	-6.27	116.50	123.02
1	bi	135	ILE	O-C-N	-6.27	115.79	121.87
1	bj	103	ASP	CA-C-N	6.27	129.32	120.42
1	bj	103	ASP	C-N-CA	6.27	129.32	120.42
1	c0	13	GLN	CA-C-N	6.27	129.77	120.87
1	c0	13	GLN	C-N-CA	6.27	129.77	120.87
1	cc	184	TRP	CA-C-O	6.27	127.19	120.55
1	ch	47	ALA	O-C-N	-6.27	115.16	122.87
1	cx	139	ASN	O-C-N	-6.27	115.48	122.12
1	dl	36	VAL	CA-CB-CG1	6.27	121.06	110.40
1	dx	139	ASN	O-C-N	-6.27	114.56	122.27
1	dD	135	ILE	N-CA-C	6.27	117.01	110.62
1	dK	209	ALA	N-CA-C	6.27	118.87	110.35
1	dM	91	ILE	O-C-N	-6.27	116.95	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	152	ASP	CA-CB-CG	-6.27	106.33	112.60
1	dR	72	THR	N-CA-C	6.27	118.91	111.33
1	ex	198	CYS	O-C-N	-6.27	114.89	122.22
1	f9	119	THR	CA-C-N	6.27	133.51	121.54
1	f9	119	THR	C-N-CA	6.27	133.51	121.54
1	fa	74	ASN	CA-C-O	6.27	127.40	120.82
1	fC	154	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	fE	39	MET	CA-C-N	6.27	129.00	120.54
1	fE	39	MET	C-N-CA	6.27	129.00	120.54
1	fM	33	SER	N-CA-CB	6.27	119.07	110.05
1	g6	162	ARG	N-CA-C	6.27	118.11	111.28
1	g6	217	ALA	O-C-N	-6.27	115.42	122.75
1	m	127	GLY	CA-C-N	6.27	128.68	120.28
1	m	127	GLY	C-N-CA	6.27	128.68	120.28
1	o	152	ASP	N-CA-C	6.27	117.91	111.14
1	u	95	GLN	N-CA-CB	-6.27	101.20	110.85
1	L	53	ASN	CA-CB-CG	-6.27	106.33	112.60
1	gf	152	ASP	CA-C-O	6.27	126.89	119.56
1	1D	21	ASN	O-C-N	-6.27	115.48	122.12
1	gF	159	GLU	CA-C-O	-6.27	113.87	120.70
1	gY	125	PRO	N-CA-CB	6.27	107.25	102.36
1	hz	96	MET	N-CA-C	6.27	118.84	109.25
1	hE	82	ARG	N-CA-C	6.27	120.39	112.87
1	hW	106	GLY	CA-C-N	6.27	131.29	120.58
1	hW	106	GLY	C-N-CA	6.27	131.29	120.58
1	1Q	114	GLN	CA-C-N	6.27	129.04	120.46
1	1Q	114	GLN	C-N-CA	6.27	129.04	120.46
1	jK	39	MET	CG-SD-CE	-6.27	87.11	100.90
1	kr	136	LEU	CA-C-N	6.27	126.89	120.00
1	kr	136	LEU	C-N-CA	6.27	126.89	120.00
1	ln	40	PHE	CB-CG-CD1	6.27	131.35	120.70
1	lp	79	GLU	CB-CG-CD	-6.27	101.95	112.60
1	29	84	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	2b	213	GLU	N-CA-C	6.27	118.11	111.28
1	2f	220	GLY	CA-C-O	6.27	126.85	119.46
1	2k	163	ASP	N-CA-C	6.27	117.77	111.07
1	2G	220	GLY	O-C-N	6.27	128.21	122.19
1	3L	152	ASP	CA-C-O	6.27	125.79	118.90
1	4k	25	LYS	O-C-N	-6.27	115.48	122.12
1	4w	135	ILE	CA-C-O	-6.27	114.21	120.85
1	5c	142	VAL	CA-C-N	6.27	128.97	120.38
1	5c	142	VAL	C-N-CA	6.27	128.97	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6h	218	CYS	O-C-N	-6.27	114.26	122.59
1	6k	80	TRP	CA-C-N	6.27	128.59	120.44
1	6k	80	TRP	C-N-CA	6.27	128.59	120.44
1	6z	195	ASN	CA-C-N	6.27	127.67	119.84
1	6z	195	ASN	C-N-CA	6.27	127.67	119.84
1	7x	200	THR	N-CA-C	6.27	118.11	111.28
1	8e	33	SER	CA-C-O	-6.27	114.58	120.34
1	8j	184	TRP	CA-C-N	6.27	129.00	120.54
1	8j	184	TRP	C-N-CA	6.27	129.00	120.54
1	8w	133	TRP	CE2-CD2-CE3	6.27	125.07	118.80
1	8x	145	TYR	CB-CG-CD2	6.27	130.20	120.80
1	9t	226	HIS	CG-CD2-NE2	6.27	113.47	107.20
1	9K	93	PRO	N-CA-CB	6.27	109.83	103.25
1	9L	199	LYS	CA-C-O	6.27	127.40	120.82
1	aG	144	MET	CG-SD-CE	-6.27	87.11	100.90
1	aP	65	ALA	N-CA-C	6.27	117.77	111.07
1	bk	155	GLN	O-C-N	-6.27	116.19	123.27
1	bs	84	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	cb	99	PRO	N-CA-C	6.27	120.68	111.03
1	ce	124	ILE	CB-CA-C	-6.27	103.67	110.37
1	co	229	ARG	NE-CZ-NH1	6.27	127.77	121.50
1	d0	126	VAL	CA-C-N	6.27	126.94	119.98
1	d0	126	VAL	C-N-CA	6.27	126.94	119.98
1	dj	181	VAL	N-CA-C	-6.27	104.94	111.58
1	dG	32	PHE	CA-CB-CG	6.27	120.07	113.80
1	f2	41	SER	CA-C-N	6.27	129.84	120.31
1	f2	41	SER	C-N-CA	6.27	129.84	120.31
1	f3	50	GLN	OE1-CD-NE2	-6.27	116.33	122.60
1	f4	171	THR	CA-C-N	6.27	128.59	120.44
1	f4	171	THR	C-N-CA	6.27	128.59	120.44
1	fu	130	TYR	O-C-N	6.27	128.52	122.07
1	fS	91	ILE	O-C-N	-6.27	115.00	122.77
1	fT	33	SER	CA-C-O	-6.27	113.86	119.75
1	fZ	32	PHE	CA-CB-CG	-6.27	107.53	113.80
1	X	124	ILE	CA-C-O	-6.27	113.88	119.71
1	7	84	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	ha	14	ALA	CA-C-O	6.26	127.62	120.54
1	he	104	ILE	N-CA-CB	6.26	119.06	110.54
1	hg	86	VAL	CB-CA-C	6.26	119.81	111.85
1	hl	195	ASN	CA-CB-CG	6.26	118.86	112.60
1	hm	126	VAL	O-C-N	-6.26	115.79	121.87
1	hK	73	ILE	N-CA-CB	6.26	117.46	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hL	137	GLY	N-CA-C	6.26	120.25	112.73
1	hW	62	HIS	CB-CG-CD2	-6.26	123.06	131.20
1	i2	109	SER	CA-C-O	-6.26	114.13	121.46
1	iE	142	VAL	CA-C-O	6.26	127.81	121.17
1	iM	185	MET	CG-SD-CE	-6.26	87.12	100.90
1	iV	66	MET	N-CA-C	6.26	118.11	111.28
1	jg	226	HIS	ND1-CE1-NE2	6.26	114.66	108.40
1	jj	50	GLN	O-C-N	-6.26	114.19	122.33
1	jw	170	LYS	O-C-N	-6.26	115.48	122.12
1	jJ	214	MET	CA-C-N	6.26	128.68	120.28
1	jJ	214	MET	C-N-CA	6.26	128.68	120.28
1	jR	161	PHE	CB-CA-C	6.26	121.19	110.79
1	jS	19	THR	CA-CB-OG1	6.26	119.00	109.60
1	k0	159	GLU	N-CA-C	6.26	118.55	109.84
1	k9	163	ASP	CA-C-N	6.26	129.19	120.29
1	k9	163	ASP	C-N-CA	6.26	129.19	120.29
1	ka	101	GLY	N-CA-C	6.26	120.25	112.73
1	kP	67	GLN	N-CA-C	6.26	117.77	111.07
1	kX	140	LYS	N-CA-C	6.26	118.11	111.28
1	kZ	18	ARG	N-CA-C	6.26	118.11	111.28
1	kZ	182	LYS	N-CA-C	-6.26	104.53	111.36
1	lb	76	GLU	CA-C-N	6.26	128.96	120.44
1	lb	76	GLU	C-N-CA	6.26	128.96	120.44
1	ll	52	LEU	CA-C-N	6.26	129.19	120.29
1	ll	52	LEU	C-N-CA	6.26	129.19	120.29
1	lB	102	SER	O-C-N	-6.26	114.56	122.27
1	lE	22	ALA	CA-C-N	6.26	128.58	120.44
1	lE	22	ALA	C-N-CA	6.26	128.58	120.44
1	lE	159	GLU	N-CA-C	6.26	117.60	109.64
1	lL	88	ALA	N-CA-C	6.26	119.33	110.50
1	2b	195	ASN	CA-C-N	6.26	127.67	119.84
1	2b	195	ASN	C-N-CA	6.26	127.67	119.84
1	2g	12	HIS	O-C-N	-6.26	115.07	122.96
1	2x	149	SER	N-CA-CB	6.26	119.18	109.97
1	2J	201	ILE	N-CA-C	6.26	116.43	110.42
1	2U	170	LYS	CA-C-N	6.26	128.68	120.28
1	2U	170	LYS	C-N-CA	6.26	128.68	120.28
1	2V	216	THR	CA-C-N	6.26	131.46	120.87
1	2V	216	THR	C-N-CA	6.26	131.46	120.87
1	30	28	GLU	CA-C-O	6.26	127.40	120.82
1	34	183	ASN	CB-CG-ND2	6.26	125.80	116.40
1	3b	212	GLU	N-CA-C	6.26	118.91	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	112	GLN	CA-C-O	-6.26	113.91	120.55
1	3k	221	VAL	N-CA-C	6.26	116.94	110.36
1	3l	166	ASP	N-CA-CB	-6.26	100.93	110.01
1	3A	216	THR	N-CA-CB	6.26	120.30	110.46
1	3X	135	ILE	O-C-N	-6.26	115.38	121.83
1	4j	86	VAL	O-C-N	-6.26	115.81	122.83
1	4m	177	ALA	N-CA-C	6.26	124.14	110.80
1	4Q	24	VAL	N-CA-C	6.26	117.05	110.72
1	4X	82	ARG	NE-CZ-NH2	-6.26	113.56	119.20
1	4Y	200	THR	N-CA-C	6.26	118.63	111.11
1	58	163	ASP	CA-C-N	6.26	128.58	120.44
1	58	163	ASP	C-N-CA	6.26	128.58	120.44
1	5m	137	GLY	CA-C-N	6.26	128.58	120.44
1	5m	137	GLY	C-N-CA	6.26	128.58	120.44
1	5u	214	MET	N-CA-C	6.26	118.11	111.28
1	6o	32	PHE	O-C-N	-6.26	116.19	123.27
1	6o	140	LYS	CA-C-O	-6.26	113.02	120.10
1	6D	154	ARG	NE-CZ-NH1	6.26	127.77	121.50
1	6I	101	GLY	O-C-N	-6.26	115.93	122.13
1	6X	152	ASP	N-CA-C	-6.26	104.91	113.30
1	79	2	ILE	CA-CB-CG1	6.26	121.05	110.40
1	7k	131	LYS	CA-C-N	6.26	129.83	120.31
1	7k	131	LYS	C-N-CA	6.26	129.83	120.31
1	7N	172	LEU	N-CA-C	6.26	120.18	112.54
1	7P	168	PHE	CB-CA-C	6.26	120.72	110.88
1	7S	124	ILE	O-C-N	-6.26	116.12	121.57
1	81	54	THR	N-CA-C	6.26	118.11	111.28
1	8b	41	SER	CA-C-N	6.26	129.19	120.29
1	8b	41	SER	C-N-CA	6.26	129.19	120.29
1	8p	183	ASN	CA-C-N	6.26	128.96	120.38
1	8p	183	ASN	C-N-CA	6.26	128.96	120.38
1	8q	120	HIS	CG-CD2-NE2	6.26	113.46	107.20
1	8F	2	ILE	O-C-N	-6.26	114.67	122.88
1	8Q	168	PHE	O-C-N	-6.26	115.48	122.12
1	8Y	181	VAL	CA-C-N	6.26	129.83	120.31
1	8Y	181	VAL	C-N-CA	6.26	129.83	120.31
1	8Z	16	SER	O-C-N	-6.26	115.19	121.27
1	92	49	PRO	O-C-N	-6.26	113.78	122.30
1	93	87	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	96	63	GLN	O-C-N	6.26	129.31	122.11
1	9D	92	GLU	CA-C-N	6.26	127.67	119.84
1	9D	92	GLU	C-N-CA	6.26	127.67	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	203	LYS	N-CA-CB	6.26	119.90	110.19
1	9P	1	PRO	CA-C-N	6.26	128.96	120.63
1	9P	1	PRO	C-N-CA	6.26	128.96	120.63
1	9P	74	ASN	OD1-CG-ND2	-6.26	116.34	122.60
1	9X	53	ASN	CA-C-N	6.26	128.68	120.28
1	9X	53	ASN	C-N-CA	6.26	128.68	120.28
1	a0	18	ARG	NE-CZ-NH2	6.26	124.84	119.20
1	a7	82	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	ao	46	GLY	N-CA-C	-6.26	106.67	115.32
1	ar	102	SER	O-C-N	-6.26	115.48	122.12
1	ax	187	GLU	N-CA-C	6.26	118.11	111.28
1	aR	199	LYS	CA-C-N	6.26	128.58	120.44
1	aR	199	LYS	C-N-CA	6.26	128.58	120.44
1	aX	57	ASN	CA-CB-CG	-6.26	106.33	112.60
1	aY	209	ALA	N-CA-C	6.26	118.38	110.24
1	b4	223	GLY	CA-C-N	6.26	125.83	119.19
1	b4	223	GLY	C-N-CA	6.26	125.83	119.19
1	b6	97	ARG	CA-C-N	6.26	129.10	120.39
1	b6	97	ARG	C-N-CA	6.26	129.10	120.39
1	16	227	LYS	CA-C-O	-6.26	111.72	119.18
1	bo	59	VAL	CA-C-N	6.26	133.69	121.41
1	bo	59	VAL	C-N-CA	6.26	133.69	121.41
1	bt	55	MET	N-CA-C	6.26	118.63	111.11
1	bJ	227	LYS	O-C-N	-6.26	114.54	122.43
1	bR	59	VAL	N-CA-CB	6.26	117.36	110.53
1	c0	22	ALA	CA-C-N	6.26	128.68	120.28
1	c0	22	ALA	C-N-CA	6.26	128.68	120.28
1	c5	129	ILE	O-C-N	-6.26	115.77	121.91
1	c6	145	TYR	O-C-N	-6.26	113.46	122.36
1	co	62	HIS	CB-CG-ND1	-6.26	113.30	122.70
1	cR	221	VAL	CA-C-N	6.26	130.21	120.00
1	cR	221	VAL	C-N-CA	6.26	130.21	120.00
1	1i	201	ILE	O-C-N	-6.26	115.79	121.87
1	dc	73	ILE	O-C-N	-6.26	115.77	121.91
1	1j	124	ILE	N-CA-C	-6.26	100.90	107.60
1	dF	120	HIS	CA-CB-CG	-6.26	107.53	113.80
1	dP	2	ILE	O-C-N	-6.26	114.26	122.47
1	dV	192	GLN	O-C-N	6.26	128.76	122.12
1	dZ	58	THR	N-CA-C	6.26	118.91	111.33
1	dZ	92	GLU	N-CA-C	6.26	117.59	109.64
1	e1	129	ILE	CA-C-N	6.26	128.59	120.44
1	e1	129	ILE	C-N-CA	6.26	128.59	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1q	167	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	eq	81	ASP	CA-C-O	6.26	127.19	120.55
1	er	124	ILE	N-CA-C	6.26	114.02	108.63
1	eC	183	ASN	CA-C-O	-6.26	113.02	120.10
1	eK	62	HIS	N-CA-C	6.26	120.26	112.24
1	eK	163	ASP	N-CA-C	6.26	118.11	111.28
1	eP	124	ILE	CA-C-N	-6.26	112.01	119.84
1	eP	124	ILE	C-N-CA	-6.26	112.01	119.84
1	fw	201	ILE	CA-C-N	6.26	129.83	120.31
1	fw	201	ILE	C-N-CA	6.26	129.83	120.31
1	fx	186	THR	CA-C-N	6.26	128.58	120.44
1	fx	186	THR	C-N-CA	6.26	128.58	120.44
1	fI	23	TRP	O-C-N	-6.26	115.48	122.12
1	fY	20	LEU	O-C-N	6.26	129.29	122.15
1	0	96	MET	CA-C-O	6.26	127.26	120.43
1	c	135	ILE	O-C-N	-6.26	115.79	121.87
1	i	162	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	D	45	GLU	N-CA-CB	6.26	119.87	109.60
1	V	71	GLU	O-C-N	-6.26	115.33	122.09
1	gl	125	PRO	CA-C-N	6.26	129.04	120.46
1	gl	125	PRO	C-N-CA	6.26	129.04	120.46
1	gF	73	ILE	O-C-N	-6.26	115.38	121.83
1	hj	28	GLU	CB-CA-C	6.26	121.33	110.68
1	hE	221	VAL	N-CA-C	-6.26	106.22	112.17
1	hF	46	GLY	CA-C-O	6.26	126.77	119.13
1	ia	146	SER	CA-C-N	-6.26	112.01	119.84
1	ia	146	SER	C-N-CA	-6.26	112.01	119.84
1	ia	190	LEU	CA-C-O	6.26	127.39	120.63
1	iH	57	ASN	CA-CB-CG	-6.26	106.34	112.60
1	jS	120	HIS	CA-CB-CG	6.26	120.06	113.80
1	kB	15	ILE	CB-CA-C	6.26	119.29	111.15
1	2a	230	VAL	N-CA-CB	6.26	118.50	110.99
1	lR	167	ARG	N-CA-C	6.26	117.77	111.07
1	2Q	49	PRO	N-CA-CB	-6.26	96.88	103.52
1	2R	46	GLY	O-C-N	-6.26	114.44	122.39
1	2U	167	ARG	CA-C-N	6.26	128.58	120.44
1	2U	167	ARG	C-N-CA	6.26	128.58	120.44
1	2W	73	ILE	CA-C-N	6.26	129.18	120.29
1	2W	73	ILE	C-N-CA	6.26	129.18	120.29
1	3s	145	TYR	CB-CG-CD2	6.26	130.19	120.80
1	3K	171	THR	CA-C-N	6.26	129.83	120.31
1	3K	171	THR	C-N-CA	6.26	129.83	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	81	ASP	O-C-N	-6.26	115.01	122.15
1	48	140	LYS	N-CA-CB	6.26	119.33	110.12
1	4a	23	TRP	O-C-N	-6.26	115.62	122.07
1	4h	166	ASP	O-C-N	-6.26	115.48	122.12
1	4o	118	MET	CA-C-O	6.26	127.08	119.31
1	4o	205	LEU	N-CA-CB	-6.26	101.44	110.65
1	4s	174	ALA	N-CA-C	6.26	120.18	112.54
1	4v	194	ALA	N-CA-C	6.26	118.63	110.43
1	6p	25	LYS	CB-CA-C	-6.26	100.20	110.85
1	6G	173	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
1	6J	36	VAL	O-C-N	6.26	127.94	121.87
1	6K	23	TRP	CA-C-N	6.26	128.45	120.56
1	6K	23	TRP	C-N-CA	6.26	128.45	120.56
1	78	226	HIS	O-C-N	-6.26	114.81	122.20
1	79	154	ARG	N-CA-C	6.26	124.14	110.80
1	7g	225	GLY	CA-C-O	6.26	127.16	120.40
1	7j	84	HIS	CA-CB-CG	6.26	120.06	113.80
1	7j	89	GLY	CA-C-N	6.26	126.62	119.92
1	7j	89	GLY	C-N-CA	6.26	126.62	119.92
1	7H	81	ASP	CA-CB-CG	6.26	118.86	112.60
1	7S	9	GLN	CB-CG-CD	-6.26	101.95	112.60
1	8u	117	TRP	N-CA-C	6.26	118.19	111.36
1	9Y	207	PRO	N-CA-CB	-6.26	96.67	103.25
1	aO	51	ASP	CA-CB-CG	-6.26	106.34	112.60
1	bm	181	VAL	N-CA-CB	-6.26	103.22	110.55
1	bn	197	ASP	CA-CB-CG	-6.26	106.34	112.60
1	bT	149	SER	CA-C-N	6.26	130.37	120.47
1	bT	149	SER	C-N-CA	6.26	130.37	120.47
1	cm	87	HIS	CG-CD2-NE2	6.26	113.46	107.20
1	cs	135	ILE	N-CA-C	6.26	117.01	110.62
1	cF	32	PHE	CA-CB-CG	-6.26	107.54	113.80
1	cQ	211	LEU	O-C-N	-6.26	115.48	122.12
1	cW	83	LEU	N-CA-C	6.26	117.77	111.07
1	dl	117	TRP	N-CA-C	6.26	117.77	111.07
1	dI	226	HIS	ND1-CE1-NE2	6.26	114.66	108.40
1	fi	227	LYS	O-C-N	-6.26	115.06	122.20
1	fw	103	ASP	CA-CB-CG	-6.26	106.34	112.60
1	fw	165	VAL	O-C-N	-6.26	115.79	121.87
1	fQ	22	ALA	N-CA-C	6.26	118.11	111.28
1	k	202	LEU	CA-C-N	6.26	128.67	120.28
1	k	202	LEU	C-N-CA	6.26	128.67	120.28
1	l	63	GLN	CB-CG-CD	6.26	123.25	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	141	ILE	O-C-N	-6.26	114.72	121.80
1	go	73	ILE	CA-C-N	6.26	128.67	120.28
1	go	73	ILE	C-N-CA	6.26	128.67	120.28
1	gK	97	ARG	NE-CZ-NH2	-6.26	113.56	119.20
1	h0	76	GLU	N-CA-C	6.26	118.19	111.36
1	hf	183	ASN	CA-C-O	-6.26	113.91	120.55
1	ho	216	THR	CA-CB-CG2	-6.26	99.86	110.50
1	hC	191	VAL	CA-C-N	6.26	128.67	120.28
1	hC	191	VAL	C-N-CA	6.26	128.67	120.28
1	hP	132	ARG	CA-C-N	6.26	129.83	120.31
1	hP	132	ARG	C-N-CA	6.26	129.83	120.31
1	hQ	101	GLY	N-CA-C	6.26	120.25	112.73
1	hT	166	ASP	CA-C-O	6.26	127.60	120.90
1	1N	174	ALA	N-CA-C	6.26	118.18	111.36
1	iF	192	GLN	OE1-CD-NE2	6.26	128.86	122.60
1	j2	214	MET	CA-C-O	6.26	127.15	120.70
1	j5	141	ILE	N-CA-CB	6.26	117.46	110.51
1	j7	27	VAL	O-C-N	-6.26	115.80	121.87
1	jd	180	GLU	N-CA-C	6.26	118.10	111.28
1	1W	200	THR	N-CA-C	6.26	117.77	111.07
1	jO	141	ILE	N-CA-C	6.26	117.01	110.62
1	1Y	56	LEU	O-C-N	-6.26	115.48	122.12
1	kq	216	THR	CA-CB-OG1	6.26	118.99	109.60
1	kG	23	TRP	CA-C-N	6.26	130.57	120.30
1	kG	23	TRP	C-N-CA	6.26	130.57	120.30
1	l0	83	LEU	O-C-N	-6.26	115.62	122.07
1	ln	162	ARG	N-CA-C	6.26	117.77	111.07
1	lP	181	VAL	N-CA-C	6.26	116.42	110.53
1	2c	10	MET	N-CA-C	6.26	118.11	111.28
1	2h	21	ASN	O-C-N	6.26	128.52	122.07
1	2o	197	ASP	CA-C-N	6.26	128.58	120.44
1	2o	197	ASP	C-N-CA	6.26	128.58	120.44
1	2W	218	CYS	N-CA-C	6.26	120.87	113.23
1	30	182	LYS	N-CA-C	6.26	118.91	111.71
1	34	117	TRP	N-CA-C	6.26	118.19	111.36
1	39	78	ALA	N-CA-C	6.26	118.11	111.28
1	3x	180	GLU	CA-C-N	6.26	128.45	120.56
1	3x	180	GLU	C-N-CA	6.26	128.45	120.56
1	3Y	88	ALA	CA-C-N	6.26	131.70	121.87
1	3Y	88	ALA	C-N-CA	6.26	131.70	121.87
1	4m	48	THR	CA-C-N	6.26	126.46	119.32
1	4m	48	THR	C-N-CA	6.26	126.46	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4M	83	LEU	N-CA-C	6.26	118.19	111.36
1	4Q	172	LEU	CA-C-N	6.26	128.58	120.44
1	4Q	172	LEU	C-N-CA	6.26	128.58	120.44
1	4Z	76	GLU	N-CA-C	6.26	118.11	111.28
1	5a	21	ASN	CA-C-O	6.26	127.39	120.63
1	5b	201	ILE	CA-C-N	6.26	128.58	120.44
1	5b	201	ILE	C-N-CA	6.26	128.58	120.44
1	5g	203	LYS	CA-C-N	6.26	129.49	120.79
1	5g	203	LYS	C-N-CA	6.26	129.49	120.79
1	5x	48	THR	N-CA-C	-6.26	101.97	110.36
1	5D	92	GLU	CA-C-N	6.26	127.67	119.84
1	5D	92	GLU	C-N-CA	6.26	127.67	119.84
1	5J	100	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	5R	165	VAL	O-C-N	-6.26	115.68	121.94
1	6o	81	ASP	CA-C-N	6.26	128.96	120.38
1	6o	81	ASP	C-N-CA	6.26	128.96	120.38
1	6C	27	VAL	O-C-N	-6.26	113.24	121.82
1	6F	23	TRP	N-CA-C	6.26	118.62	111.11
1	72	81	ASP	CA-C-O	6.26	127.18	120.10
1	72	228	ALA	N-CA-CB	-6.26	101.39	110.47
1	75	108	THR	CA-CB-OG1	6.26	118.99	109.60
1	7a	23	TRP	CA-CB-CG	6.26	125.50	113.60
1	7a	92	GLU	CA-C-N	6.26	126.23	119.78
1	7a	92	GLU	C-N-CA	6.26	126.23	119.78
1	7j	191	VAL	O-C-N	-6.26	115.39	121.90
1	7u	126	VAL	N-CA-C	6.26	116.94	110.36
1	7x	166	ASP	O-C-N	-6.26	115.62	122.07
1	7C	53	ASN	CA-CB-CG	-6.26	106.34	112.60
1	81	80	TRP	CB-CG-CD1	-6.26	117.51	126.90
1	8k	72	THR	N-CA-CB	6.26	119.27	109.94
1	8B	82	ARG	N-CA-C	6.26	118.62	111.11
1	8H	21	ASN	CA-C-O	6.26	127.06	120.42
1	9t	57	ASN	CA-C-N	6.26	128.67	120.28
1	9t	57	ASN	C-N-CA	6.26	128.67	120.28
1	9v	40	PHE	CA-CB-CG	-6.26	107.54	113.80
1	9E	59	VAL	N-CA-C	6.26	117.11	108.84
1	9P	160	PRO	N-CA-C	6.26	121.16	111.21
1	9Q	151	LEU	CA-C-N	6.26	132.62	122.67
1	9Q	151	LEU	C-N-CA	6.26	132.62	122.67
1	9R	90	PRO	N-CA-CB	6.26	108.88	103.31
1	9V	112	GLN	O-C-N	-6.26	114.57	122.27
1	9W	137	GLY	CA-C-N	6.26	128.58	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9W	137	GLY	C-N-CA	6.26	128.58	120.44
1	ar	123	PRO	CA-C-N	-6.26	116.51	123.02
1	ar	123	PRO	C-N-CA	-6.26	116.51	123.02
1	as	226	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	aH	12	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	b7	62	HIS	ND1-CG-CD2	6.26	112.36	106.10
1	bc	85	PRO	CA-C-N	6.26	128.89	120.50
1	bc	85	PRO	C-N-CA	6.26	128.89	120.50
1	bg	195	ASN	CA-CB-CG	-6.26	106.34	112.60
1	bw	28	GLU	N-CA-C	6.26	119.08	111.82
1	1f	97	ARG	CA-C-N	6.26	130.31	121.61
1	1f	97	ARG	C-N-CA	6.26	130.31	121.61
1	d5	129	ILE	N-CA-C	-6.26	104.41	110.42
1	db	73	ILE	CA-C-N	6.26	129.83	120.31
1	db	73	ILE	C-N-CA	6.26	129.83	120.31
1	dp	62	HIS	CA-CB-CG	-6.26	107.54	113.80
1	dE	54	THR	N-CA-CB	6.26	119.09	110.01
1	1m	92	GLU	CA-C-O	-6.26	113.92	120.87
1	ea	125	PRO	CA-C-O	-6.26	114.63	121.77
1	eo	178	SER	N-CA-CB	6.26	121.07	110.49
1	eM	168	PHE	CA-CB-CG	6.26	120.06	113.80
1	f2	153	ILE	N-CA-C	6.26	117.15	108.89
1	fi	144	MET	N-CA-C	6.26	118.11	111.28
1	fz	11	VAL	CA-C-O	-6.26	114.64	121.28
1	fC	55	MET	CA-C-O	6.26	127.60	120.90
1	1y	39	MET	N-CA-C	6.26	117.77	111.07
1	fV	229	ARG	NE-CZ-NH2	-6.26	113.56	119.20
1	H	121	ASN	CA-CB-CG	6.26	118.86	112.60
1	I	24	VAL	CA-C-O	6.26	127.23	120.47
1	Q	136	LEU	N-CA-C	6.26	117.77	111.07
1	7	84	HIS	CG-CD2-NE2	6.26	113.46	107.20
1	gb	229	ARG	O-C-N	-6.26	115.54	123.24
1	gn	59	VAL	CA-C-N	6.26	129.58	121.13
1	gn	59	VAL	C-N-CA	6.26	129.58	121.13
1	gr	98	GLU	CA-C-O	-6.26	113.54	119.80
1	gx	132	ARG	NE-CZ-NH2	6.26	124.83	119.20
1	gz	62	HIS	ND1-CG-CD2	6.26	112.36	106.10
1	gC	86	VAL	N-CA-C	-6.26	105.52	113.22
1	h6	6	LEU	O-C-N	-6.26	115.65	122.79
1	hx	152	ASP	CA-CB-CG	6.26	118.86	112.60
1	hS	133	TRP	CA-C-N	6.26	128.45	120.56
1	hS	133	TRP	C-N-CA	6.26	128.45	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	23	TRP	CB-CG-CD2	6.26	135.56	126.80
1	iE	48	THR	O-C-N	-6.26	114.97	121.60
1	1R	12	HIS	ND1-CE1-NE2	6.26	114.66	108.40
1	1R	52	LEU	CA-C-N	6.26	128.58	120.44
1	1R	52	LEU	C-N-CA	6.26	128.58	120.44
1	1R	184	TRP	N-CA-C	6.26	118.62	111.11
1	iO	139	ASN	CA-C-N	6.26	128.58	120.44
1	iO	139	ASN	C-N-CA	6.26	128.58	120.44
1	iR	75	GLU	N-CA-C	6.26	118.62	111.11
1	1T	20	LEU	CA-C-N	6.26	128.67	120.28
1	1T	20	LEU	C-N-CA	6.26	128.67	120.28
1	j3	106	GLY	N-CA-C	6.26	124.72	115.08
1	1W	168	PHE	N-CA-CB	-6.26	100.86	110.13
1	jA	6	LEU	CA-C-O	6.26	126.86	119.28
1	jJ	21	ASN	N-CA-CB	6.26	119.09	110.01
1	jR	133	TRP	O-C-N	-6.26	115.48	122.12
1	jY	8	GLY	CA-C-N	6.26	132.09	120.95
1	jY	8	GLY	C-N-CA	6.26	132.09	120.95
1	jY	52	LEU	O-C-N	-6.26	115.62	122.07
1	kg	166	ASP	CA-CB-CG	6.26	118.86	112.60
1	ki	216	THR	CA-C-O	6.26	126.28	119.15
1	kl	150	ILE	CA-C-O	6.26	126.43	119.42
1	kl	183	ASN	N-CA-C	6.26	118.10	111.28
1	kl	203	LYS	CA-C-N	6.26	128.99	120.54
1	kl	203	LYS	C-N-CA	6.26	128.99	120.54
1	kp	136	LEU	CA-C-O	6.26	127.39	120.63
1	kC	93	PRO	N-CA-CB	-6.26	97.25	103.20
1	kG	177	ALA	N-CA-C	6.26	119.31	110.23
1	kK	121	ASN	CB-CG-OD1	6.26	133.32	120.80
1	kX	155	GLN	CA-C-O	6.26	127.83	120.69
1	kY	55	MET	O-C-N	-6.26	114.57	122.27
1	lb	4	GLN	OE1-CD-NE2	-6.26	116.34	122.60
1	lm	84	HIS	O-C-N	-6.26	113.98	121.12
1	ly	83	LEU	N-CA-C	6.26	118.10	111.28
1	lA	167	ARG	CA-C-O	6.26	127.60	120.90
1	lC	160	PRO	N-CD-CG	6.26	112.59	103.20
1	lJ	62	HIS	ND1-CG-CD2	6.26	112.36	106.10
1	2s	75	GLU	N-CA-C	6.26	117.77	111.07
1	2u	14	ALA	O-C-N	-6.26	115.47	122.86
1	2v	29	GLU	CB-CA-C	-6.26	98.50	109.02
1	2v	97	ARG	CA-C-O	-6.26	114.26	121.15
1	2x	20	LEU	CA-C-N	6.26	128.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2x	20	LEU	C-N-CA	6.26	128.67	120.28
1	3h	165	VAL	O-C-N	6.26	127.94	121.87
1	3k	97	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
1	3o	215	MET	O-C-N	-6.26	114.90	122.22
1	3r	141	ILE	N-CA-C	6.26	118.92	111.09
1	3D	226	HIS	ND1-CE1-NE2	6.26	114.66	108.40
1	3F	62	HIS	ND1-CE1-NE2	6.26	114.66	108.40
1	3T	42	ALA	CA-C-N	6.26	129.82	120.31
1	3T	42	ALA	C-N-CA	6.26	129.82	120.31
1	4E	114	GLN	OE1-CD-NE2	6.26	128.86	122.60
1	4M	178	SER	CA-C-N	6.26	128.67	120.28
1	4M	178	SER	C-N-CA	6.26	128.67	120.28
1	4P	30	LYS	N-CA-C	-6.26	102.87	110.88
1	4V	15	ILE	N-CA-C	6.26	118.64	109.63
1	4Y	100	ARG	NH1-CZ-NH2	-6.26	111.16	119.30
1	52	163	ASP	CA-CB-CG	6.26	118.86	112.60
1	5C	27	VAL	N-CA-C	6.26	117.00	110.62
1	5H	154	ARG	N-CA-CB	6.26	120.16	110.21
1	5W	15	ILE	O-C-N	-6.26	116.00	122.63
1	6P	120	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	7n	96	MET	O-C-N	6.26	129.59	122.20
1	7p	3	VAL	N-CA-C	-6.26	99.13	108.46
1	7q	67	GLN	O-C-N	-6.26	115.48	122.12
1	7v	23	TRP	CB-CG-CD2	6.26	135.56	126.80
1	7K	212	GLU	O-C-N	-6.26	115.49	122.12
1	7S	111	LEU	N-CA-CB	-6.26	100.92	110.12
1	7Z	11	VAL	O-C-N	-6.26	116.50	123.26
1	82	187	GLU	CA-C-O	6.26	127.19	120.24
1	84	33	SER	N-CA-C	-6.26	102.50	108.07
1	8h	199	LYS	N-CA-C	6.26	118.90	111.33
1	8q	93	PRO	N-CA-CB	6.26	108.80	103.35
1	8r	168	PHE	CA-CB-CG	6.26	120.06	113.80
1	8I	101	GLY	CA-C-N	6.26	129.29	120.28
1	8I	101	GLY	C-N-CA	6.26	129.29	120.28
1	8K	117	TRP	CB-CG-CD1	-6.26	117.51	126.90
1	8V	98	GLU	CA-C-N	6.26	126.29	119.90
1	8V	98	GLU	C-N-CA	6.26	126.29	119.90
1	9b	193	ASN	CA-CB-CG	-6.26	106.34	112.60
1	9g	206	GLY	CA-C-N	6.26	127.66	119.84
1	9g	206	GLY	C-N-CA	6.26	127.66	119.84
1	9h	176	GLN	O-C-N	-6.26	114.67	122.24
1	9k	21	ASN	N-CA-C	6.26	117.77	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	25	LYS	N-CA-C	6.26	118.91	111.33
1	9x	187	GLU	CA-C-O	-6.26	114.25	120.70
1	9F	165	VAL	N-CA-C	6.26	116.93	110.36
1	au	79	GLU	N-CA-C	6.26	118.10	111.28
1	aw	96	MET	CG-SD-CE	-6.26	87.13	100.90
1	ax	26	VAL	CA-C-N	6.26	128.45	120.56
1	ax	26	VAL	C-N-CA	6.26	128.45	120.56
1	aC	226	HIS	CA-C-N	6.26	131.60	122.77
1	aC	226	HIS	C-N-CA	6.26	131.60	122.77
1	b0	23	TRP	O-C-N	6.26	128.52	122.07
1	bn	48	THR	CA-C-N	6.26	126.46	119.32
1	bn	48	THR	C-N-CA	6.26	126.46	119.32
1	bq	30	LYS	CA-C-O	-6.26	112.20	119.59
1	bz	191	VAL	N-CA-CB	-6.26	101.19	110.58
1	bI	145	TYR	N-CA-C	-6.26	105.68	113.38
1	cb	25	LYS	CA-C-N	6.26	129.31	120.42
1	cb	25	LYS	C-N-CA	6.26	129.31	120.42
1	cp	69	LEU	N-CA-C	6.26	118.66	111.02
1	cI	112	GLN	CA-C-N	6.26	129.18	120.29
1	cI	112	GLN	C-N-CA	6.26	129.18	120.29
1	d9	144	MET	N-CA-C	6.26	118.91	111.71
1	dc	117	TRP	N-CA-C	6.26	117.90	111.14
1	dd	195	ASN	CA-C-O	-6.26	113.87	120.88
1	dh	217	ALA	O-C-N	-6.26	115.55	123.06
1	dm	227	LYS	O-C-N	-6.26	115.01	122.15
1	dp	180	GLU	CA-C-O	-6.26	114.25	120.82
1	dB	93	PRO	O-C-N	-6.26	116.16	122.98
1	1m	72	THR	N-CA-CB	6.26	119.08	110.01
1	dK	140	LYS	CA-C-N	6.26	129.04	120.46
1	dK	140	LYS	C-N-CA	6.26	129.04	120.46
1	dZ	227	LYS	N-CA-CB	6.26	120.85	110.52
1	eb	79	GLU	CB-CA-C	6.26	120.79	110.90
1	ef	136	LEU	CA-C-N	6.26	126.93	119.98
1	ef	136	LEU	C-N-CA	6.26	126.93	119.98
1	er	95	GLN	N-CA-C	6.26	119.00	110.55
1	1s	201	ILE	O-C-N	6.26	127.94	121.87
1	eJ	206	GLY	O-C-N	-6.26	115.51	121.77
1	1t	59	VAL	CA-CB-CG2	-6.26	99.76	110.40
1	eR	195	ASN	CA-CB-CG	-6.26	106.34	112.60
1	1u	70	LYS	N-CA-C	6.26	118.10	111.28
1	f2	103	ASP	CA-C-N	6.26	129.03	120.46
1	f2	103	ASP	C-N-CA	6.26	129.03	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fa	117	TRP	O-C-N	-6.26	115.48	122.12
1	fs	181	VAL	N-CA-C	-6.26	104.40	110.72
1	0	163	ASP	CA-C-N	6.26	128.58	120.44
1	0	163	ASP	C-N-CA	6.26	128.58	120.44
1	o	171	THR	N-CA-C	6.26	118.10	111.28
1	q	126	VAL	CA-C-O	6.26	127.46	120.95
1	3	172	LEU	CA-C-N	6.26	128.67	120.28
1	3	172	LEU	C-N-CA	6.26	128.67	120.28
1	4	112	GLN	OE1-CD-NE2	-6.26	116.34	122.60
1	O	12	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	W	21	ASN	CA-CB-CG	6.26	118.86	112.60
1	9	148	THR	N-CA-CB	6.26	121.38	111.43
1	gm	14	ALA	N-CA-C	6.26	119.06	110.24
1	gr	121	ASN	CA-CB-CG	6.26	118.86	112.60
1	gv	182	LYS	O-C-N	6.26	128.75	122.12
1	gC	172	LEU	N-CA-C	6.26	118.10	111.28
1	gW	17	PRO	N-CA-C	-6.26	105.37	113.57
1	gY	161	PHE	N-CA-C	6.26	118.18	111.36
1	hm	144	MET	O-C-N	-6.26	115.49	122.12
1	hQ	53	ASN	O-C-N	-6.26	115.58	122.09
1	in	8	GLY	CA-C-O	6.26	126.07	119.06
1	ir	111	LEU	O-C-N	6.26	128.75	122.12
1	ir	188	THR	CA-C-N	6.26	128.57	120.44
1	ir	188	THR	C-N-CA	6.26	128.57	120.44
1	jD	193	ASN	CA-CB-CG	-6.26	106.34	112.60
1	lE	27	VAL	CA-C-N	6.26	128.58	120.44
1	lE	27	VAL	C-N-CA	6.26	128.58	120.44
1	2R	166	ASP	O-C-N	6.26	128.54	122.03
1	3X	126	VAL	CA-C-O	-6.26	114.44	120.95
1	3Z	188	THR	CA-CB-OG1	6.26	118.99	109.60
1	4k	191	VAL	CA-C-N	6.26	129.52	120.38
1	4k	191	VAL	C-N-CA	6.26	129.52	120.38
1	4o	50	GLN	N-CA-C	6.26	118.62	111.11
1	4u	27	VAL	CB-CA-C	6.26	120.59	112.14
1	57	202	LEU	N-CA-C	6.26	118.90	111.33
1	5l	64	ALA	N-CA-C	6.26	117.77	111.07
1	5o	203	LYS	CB-CA-C	-6.26	100.40	110.79
1	6s	112	GLN	CA-C-N	6.26	128.57	120.44
1	6s	112	GLN	C-N-CA	6.26	128.57	120.44
1	7p	201	ILE	CA-C-N	6.26	128.67	120.28
1	7p	201	ILE	C-N-CA	6.26	128.67	120.28
1	7F	25	LYS	N-CA-C	6.26	119.08	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	84	100	ARG	CA-C-O	-6.26	114.25	121.82
1	8S	29	GLU	CA-C-O	6.26	127.35	120.90
1	92	177	ALA	CA-C-N	6.26	130.02	120.82
1	92	177	ALA	C-N-CA	6.26	130.02	120.82
1	9P	131	LYS	CA-C-N	6.26	128.67	120.28
1	9P	131	LYS	C-N-CA	6.26	128.67	120.28
1	a1	109	SER	N-CA-C	6.26	118.86	110.35
1	a3	119	THR	O-C-N	-6.26	114.67	122.24
1	bE	162	ARG	N-CA-CB	6.26	121.06	110.49
1	bI	84	HIS	CA-C-N	6.26	127.66	119.84
1	bI	84	HIS	C-N-CA	6.26	127.66	119.84
1	bK	56	LEU	O-C-N	-6.26	115.02	122.15
1	bP	206	GLY	CA-C-N	6.26	126.38	119.87
1	bP	206	GLY	C-N-CA	6.26	126.38	119.87
1	c6	62	HIS	ND1-CG-CD2	6.26	112.36	106.10
1	ck	134	ILE	N-CA-C	6.26	117.04	110.72
1	ct	11	VAL	CA-C-O	6.26	128.04	121.59
1	cQ	22	ALA	CA-C-O	6.26	127.39	120.82
1	ff	121	ASN	CA-C-O	-6.26	113.74	119.62
1	fX	18	ARG	NH1-CZ-NH2	-6.26	111.17	119.30
1	g0	210	THR	O-C-N	-6.26	115.93	122.94
1	R	200	THR	O-C-N	-6.26	115.49	122.12
1	6	44	SER	O-C-N	-6.26	114.83	122.34
1	1D	179	GLN	CA-C-N	6.26	128.66	120.28
1	1D	179	GLN	C-N-CA	6.26	128.66	120.28
1	gs	226	HIS	O-C-N	-6.26	115.49	122.12
1	gO	102	SER	N-CA-CB	6.26	120.60	110.40
1	hc	46	GLY	CA-C-N	6.26	129.75	120.87
1	hc	46	GLY	C-N-CA	6.26	129.75	120.87
1	ht	197	ASP	CA-C-N	6.26	128.66	120.28
1	ht	197	ASP	C-N-CA	6.26	128.66	120.28
1	hy	103	ASP	N-CA-C	-6.26	104.38	111.14
1	hC	126	VAL	N-CA-CB	-6.26	103.57	110.51
1	hK	90	PRO	N-CA-C	6.26	121.08	110.95
1	hU	221	VAL	N-CA-CB	6.26	119.05	110.54
1	i6	80	TRP	CB-CG-CD2	6.26	135.56	126.80
1	i7	168	PHE	CA-CB-CG	6.26	120.06	113.80
1	j4	130	TYR	CA-C-O	6.26	127.05	120.42
1	ji	111	LEU	N-CA-C	6.26	118.62	111.11
1	jw	109	SER	CA-C-N	6.26	132.35	120.97
1	jw	109	SER	C-N-CA	6.26	132.35	120.97
1	jx	113	GLU	CA-C-N	6.26	128.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	113	GLU	C-N-CA	6.26	128.57	120.44
1	jF	23	TRP	CB-CG-CD1	-6.26	117.52	126.90
1	k8	168	PHE	O-C-N	-6.26	115.49	122.12
1	kc	75	GLU	N-CA-C	6.26	117.76	111.07
1	kr	159	GLU	CA-C-N	6.26	127.93	120.23
1	kr	159	GLU	C-N-CA	6.26	127.93	120.23
1	kv	36	VAL	O-C-N	-6.26	115.78	121.91
1	kJ	128	GLU	N-CA-C	6.26	118.10	111.28
1	kK	37	ILE	O-C-N	-6.26	116.42	120.42
1	l3	191	VAL	CB-CA-C	-6.26	103.69	112.14
1	lc	39	MET	CG-SD-CE	-6.26	87.13	100.90
1	li	37	ILE	N-CA-C	6.26	119.86	112.35
1	lm	113	GLU	CA-C-N	6.26	128.95	120.44
1	lm	113	GLU	C-N-CA	6.26	128.95	120.44
1	lB	164	TYR	CA-C-N	6.26	128.67	120.60
1	lB	164	TYR	C-N-CA	6.26	128.67	120.60
1	lG	132	ARG	N-CA-C	6.26	118.10	111.28
1	lM	48	THR	CA-C-O	-6.26	113.87	120.88
1	2b	57	ASN	CA-CB-CG	-6.26	106.34	112.60
1	2n	141	ILE	N-CA-C	6.26	116.43	110.42
1	2v	135	ILE	N-CA-CB	-6.26	102.65	110.47
1	2C	74	ASN	CA-C-O	6.26	127.14	120.70
1	2P	201	ILE	N-CA-C	6.26	118.91	111.09
1	2V	82	ARG	NE-CZ-NH2	6.26	124.83	119.20
1	3y	82	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	3z	161	PHE	CD1-CG-CD2	-6.26	109.22	118.60
1	3I	177	ALA	CA-C-N	6.26	129.72	120.90
1	3I	177	ALA	C-N-CA	6.26	129.72	120.90
1	3R	219	GLN	O-C-N	-6.26	115.02	122.15
1	3S	103	ASP	CA-C-N	6.26	130.56	120.30
1	3S	103	ASP	C-N-CA	6.26	130.56	120.30
1	42	205	LEU	CB-CA-C	-6.26	100.41	110.79
1	4p	102	SER	N-CA-C	6.26	118.10	111.28
1	4r	168	PHE	CA-CB-CG	6.26	120.06	113.80
1	4w	78	ALA	N-CA-C	6.26	117.77	111.07
1	4D	143	ARG	NE-CZ-NH2	-6.26	113.57	119.20
1	4I	189	LEU	CA-C-N	6.26	128.99	120.54
1	4I	189	LEU	C-N-CA	6.26	128.99	120.54
1	4K	23	TRP	CD2-CE2-CZ2	-6.26	116.14	122.40
1	4K	30	LYS	N-CA-CB	-6.26	102.68	111.00
1	4V	7	GLN	CB-CA-C	6.26	119.83	111.82
1	4X	159	GLU	N-CA-C	6.26	117.54	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	16	SER	O-C-N	-6.26	115.73	121.30
1	5r	110	THR	CA-C-N	6.26	128.95	120.38
1	5r	110	THR	C-N-CA	6.26	128.95	120.38
1	5u	100	ARG	NE-CZ-NH2	-6.26	113.57	119.20
1	5R	154	ARG	N-CA-CB	6.26	123.16	111.52
1	6j	84	HIS	CA-CB-CG	-6.26	107.54	113.80
1	6u	59	VAL	O-C-N	-6.26	115.39	121.90
1	6F	230	VAL	O-C-N	-6.26	115.93	122.25
1	6X	135	ILE	CB-CA-C	6.26	120.59	112.14
1	74	214	MET	N-CA-C	6.26	118.18	111.36
1	7g	50	GLN	CA-C-N	6.26	128.99	120.54
1	7g	50	GLN	C-N-CA	6.26	128.99	120.54
1	7r	142	VAL	N-CA-CB	-6.26	103.56	110.51
1	7t	64	ALA	O-C-N	-6.26	114.10	122.23
1	8t	167	ARG	NH1-CZ-NH2	-6.26	111.17	119.30
1	8x	203	LYS	CA-C-N	6.26	128.57	120.44
1	8x	203	LYS	C-N-CA	6.26	128.57	120.44
1	8A	76	GLU	N-CA-CB	6.26	119.42	110.16
1	95	34	PRO	CA-C-N	6.26	132.09	121.14
1	95	34	PRO	C-N-CA	6.26	132.09	121.14
1	95	188	THR	CA-C-N	6.26	128.95	120.44
1	95	188	THR	C-N-CA	6.26	128.95	120.44
1	96	89	GLY	N-CA-C	6.26	125.11	112.34
1	97	56	LEU	CA-C-O	6.26	127.17	119.97
1	9a	12	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	9c	202	LEU	N-CA-C	6.26	118.10	111.28
1	9d	146	SER	N-CA-C	6.26	118.54	109.84
1	9t	100	ARG	O-C-N	-6.26	115.72	122.85
1	9t	192	GLN	N-CA-C	6.26	118.10	111.28
1	9y	198	CYS	CA-C-N	6.26	128.66	120.28
1	9y	198	CYS	C-N-CA	6.26	128.66	120.28
1	9z	188	THR	N-CA-C	6.26	118.81	108.48
1	9O	118	MET	CA-CB-CG	-6.26	101.59	114.10
1	a1	201	ILE	CA-C-N	6.26	128.66	120.28
1	a1	201	ILE	C-N-CA	6.26	128.66	120.28
1	10	227	LYS	N-CA-C	6.26	119.30	110.23
1	ab	176	GLN	CA-C-N	6.26	129.72	120.90
1	ab	176	GLN	C-N-CA	6.26	129.72	120.90
1	ai	139	ASN	CA-C-N	6.26	129.17	120.29
1	ai	139	ASN	C-N-CA	6.26	129.17	120.29
1	aM	73	ILE	O-C-N	-6.26	115.78	121.91
1	b2	79	GLU	CA-C-N	6.26	128.66	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b2	79	GLU	C-N-CA	6.26	128.66	120.28
1	b7	189	LEU	N-CA-C	6.26	119.08	111.82
1	bg	16	SER	O-C-N	-6.26	115.87	121.31
1	br	21	ASN	CA-C-O	-6.26	113.87	120.63
1	br	226	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	1b	160	PRO	O-C-N	-6.26	115.96	123.03
1	bX	63	GLN	OE1-CD-NE2	-6.26	116.34	122.60
1	bZ	167	ARG	NH1-CZ-NH2	-6.26	111.17	119.30
1	ch	142	VAL	CA-C-N	6.26	129.17	120.29
1	ch	142	VAL	C-N-CA	6.26	129.17	120.29
1	cG	193	ASN	N-CA-C	-6.26	104.28	112.41
1	d3	199	LYS	CA-C-N	6.26	128.95	120.44
1	d3	199	LYS	C-N-CA	6.26	128.95	120.44
1	d8	124	ILE	N-CA-CB	6.26	118.96	111.08
1	dm	74	ASN	CB-CG-OD1	6.26	133.31	120.80
1	dq	17	PRO	N-CD-CG	6.26	112.59	103.20
1	dY	62	HIS	ND1-CG-CD2	6.26	112.36	106.10
1	e4	104	ILE	CB-CA-C	-6.26	103.58	112.22
1	e7	68	MET	O-C-N	-6.26	115.02	122.15
1	ec	63	GLN	CA-C-O	6.26	127.18	120.55
1	eo	182	LYS	N-CA-C	6.26	117.76	111.07
1	er	68	MET	CA-C-N	6.26	128.57	120.44
1	er	68	MET	C-N-CA	6.26	128.57	120.44
1	ex	169	TYR	N-CA-CB	6.26	119.32	110.12
1	eB	153	ILE	O-C-N	-6.26	116.10	122.54
1	eT	23	TRP	CB-CG-CD2	6.26	135.56	126.80
1	eU	28	GLU	O-C-N	6.26	128.75	122.12
1	eY	18	ARG	NE-CZ-NH1	6.26	127.76	121.50
1	f1	113	GLU	CA-C-O	6.26	127.05	120.42
1	f2	174	ALA	CA-C-N	6.26	129.64	120.82
1	f2	174	ALA	C-N-CA	6.26	129.64	120.82
1	fc	155	GLN	O-C-N	-6.26	115.11	122.81
1	fA	20	LEU	O-C-N	-6.26	115.49	122.12
1	fE	83	LEU	N-CA-C	6.26	119.08	111.82
1	fF	110	THR	N-CA-CB	6.26	120.47	110.46
1	g1	185	MET	CA-C-N	6.26	128.95	120.44
1	g1	185	MET	C-N-CA	6.26	128.95	120.44
1	g	33	SER	O-C-N	-6.26	116.67	121.55
1	B	124	ILE	O-C-N	-6.26	115.16	120.92
1	E	177	ALA	CB-CA-C	-6.26	100.46	109.84
1	O	53	ASN	CA-C-N	6.26	128.66	120.28
1	O	53	ASN	C-N-CA	6.26	128.66	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	62	HIS	CE1-NE2-CD2	-6.26	102.74	109.00
1	R	149	SER	CA-C-N	6.26	130.36	120.47
1	R	149	SER	C-N-CA	6.26	130.36	120.47
1	g9	120	HIS	CG-CD2-NE2	6.25	113.45	107.20
1	gy	188	THR	CA-C-N	6.25	128.66	120.28
1	gy	188	THR	C-N-CA	6.25	128.66	120.28
1	gG	92	GLU	CA-C-N	6.25	127.66	119.84
1	gG	92	GLU	C-N-CA	6.25	127.66	119.84
1	gP	219	GLN	N-CA-C	-6.25	104.12	112.94
1	h7	5	ASN	CA-C-N	6.25	133.49	121.54
1	h7	5	ASN	C-N-CA	6.25	133.49	121.54
1	1I	62	HIS	CA-C-O	-6.25	114.33	121.65
1	hz	173	ARG	CB-CA-C	6.25	120.82	110.81
1	1N	213	GLU	N-CA-C	6.25	118.90	111.71
1	iT	12	HIS	N-CA-C	-6.25	99.71	109.72
1	jH	115	ILE	N-CA-C	6.25	117.75	110.62
1	20	87	HIS	CG-CD2-NE2	6.25	113.45	107.20
1	kp	183	ASN	N-CA-C	6.25	117.76	111.07
1	kF	20	LEU	CA-C-N	6.25	128.66	120.28
1	kF	20	LEU	C-N-CA	6.25	128.66	120.28
1	27	107	THR	CA-CB-CG2	6.25	121.13	110.50
1	lK	95	GLN	N-CA-C	6.25	124.12	110.80
1	lL	182	LYS	N-CA-C	6.25	118.10	111.28
1	33	167	ARG	NE-CZ-NH2	-6.25	113.57	119.20
1	35	128	GLU	N-CA-C	6.25	118.62	111.11
1	3n	195	ASN	CA-CB-CG	6.25	118.86	112.60
1	3U	27	VAL	N-CA-CB	-6.25	101.20	110.58
1	58	55	MET	CA-C-N	6.25	129.29	120.28
1	58	55	MET	C-N-CA	6.25	129.29	120.28
1	5d	11	VAL	CB-CA-C	6.25	120.15	110.83
1	5y	132	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	64	70	LYS	CA-C-N	6.25	128.57	120.44
1	64	70	LYS	C-N-CA	6.25	128.57	120.44
1	6b	100	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	6L	75	GLU	O-C-N	-6.25	115.02	122.15
1	77	203	LYS	N-CA-C	-6.25	105.29	113.17
1	7u	167	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	8b	62	HIS	ND1-CG-CD2	6.25	112.36	106.10
1	8b	174	ALA	CA-C-N	6.25	128.66	120.28
1	8b	174	ALA	C-N-CA	6.25	128.66	120.28
1	8n	106	GLY	CA-C-N	6.25	128.95	120.44
1	8n	106	GLY	C-N-CA	6.25	128.95	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8P	79	GLU	CA-C-N	6.25	128.57	120.44
1	8P	79	GLU	C-N-CA	6.25	128.57	120.44
1	96	27	VAL	N-CA-C	6.25	116.42	110.42
1	9i	136	LEU	CA-C-N	6.25	127.06	119.99
1	9i	136	LEU	C-N-CA	6.25	127.06	119.99
1	9r	21	ASN	CA-CB-CG	6.25	118.86	112.60
1	aV	97	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	b8	187	GLU	CA-C-O	6.25	127.05	120.42
1	be	95	GLN	CA-C-O	6.25	126.62	119.18
1	19	83	LEU	O-C-N	-6.25	115.02	122.15
1	bD	226	HIS	CA-CB-CG	6.25	120.06	113.80
1	bO	45	GLU	N-CA-C	6.25	124.12	110.80
1	1b	1	PRO	N-CA-CB	6.25	109.88	103.00
1	1d	156	GLY	O-C-N	-6.25	115.92	122.18
1	cm	25	LYS	N-CA-C	6.25	119.08	111.82
1	1f	112	GLN	CA-C-N	6.25	128.57	120.44
1	1f	112	GLN	C-N-CA	6.25	128.57	120.44
1	d0	67	GLN	N-CA-C	6.25	118.10	111.28
1	d9	118	MET	CA-C-O	6.25	127.05	120.42
1	de	120	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	dr	41	SER	O-C-N	-6.25	115.49	122.12
1	1l	29	GLU	CA-C-O	-6.25	114.26	120.70
1	1l	174	ALA	CA-C-N	6.25	129.59	120.71
1	1l	174	ALA	C-N-CA	6.25	129.59	120.71
1	eA	62	HIS	CB-CG-ND1	-6.25	113.32	122.70
1	eC	2	ILE	CA-C-O	6.25	127.78	120.71
1	eX	38	PRO	CA-C-N	6.25	128.66	120.28
1	eX	38	PRO	C-N-CA	6.25	128.66	120.28
1	fc	103	ASP	N-CA-CB	6.25	119.42	110.16
1	fZ	86	VAL	O-C-N	-6.25	114.75	122.57
1	g1	162	ARG	CA-C-N	6.25	128.66	120.28
1	g1	162	ARG	C-N-CA	6.25	128.66	120.28
1	g5	196	PRO	O-C-N	-6.25	113.79	122.30
1	f	166	ASP	O-C-N	-6.25	115.49	122.12
1	gg	64	ALA	CA-C-O	-6.25	114.25	120.82
1	gg	84	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	gy	226	HIS	CB-CG-ND1	-6.25	113.32	122.70
1	gE	204	ALA	CA-C-N	6.25	128.66	120.28
1	gE	204	ALA	C-N-CA	6.25	128.66	120.28
1	gN	173	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	gV	68	MET	O-C-N	-6.25	115.63	122.07
1	h0	113	GLU	CA-C-N	6.25	128.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h0	113	GLU	C-N-CA	6.25	128.57	120.44
1	hw	182	LYS	O-C-N	-6.25	114.90	122.22
1	hG	183	ASN	CA-C-N	6.25	128.66	120.28
1	hG	183	ASN	C-N-CA	6.25	128.66	120.28
1	hP	96	MET	CA-C-O	6.25	127.18	120.24
1	i1	98	GLU	CA-C-O	-6.25	113.74	119.62
1	iN	164	TYR	CA-C-N	6.25	128.56	120.56
1	iN	164	TYR	C-N-CA	6.25	128.56	120.56
1	iV	166	ASP	O-C-N	-6.25	115.49	122.12
1	j8	178	SER	CA-C-N	6.25	128.98	120.54
1	j8	178	SER	C-N-CA	6.25	128.98	120.54
1	je	33	SER	CA-C-O	-6.25	113.28	120.03
1	jl	116	GLY	N-CA-C	6.25	119.75	112.50
1	jo	42	ALA	CA-C-N	6.25	128.66	120.28
1	jo	42	ALA	C-N-CA	6.25	128.66	120.28
1	k9	86	VAL	CA-C-N	6.25	132.35	120.97
1	k9	86	VAL	C-N-CA	6.25	132.35	120.97
1	kc	50	GLN	N-CA-C	6.25	118.90	111.71
1	ko	126	VAL	O-C-N	-6.25	115.81	121.87
1	kt	199	LYS	CA-C-N	6.25	128.66	120.28
1	kt	199	LYS	C-N-CA	6.25	128.66	120.28
1	ky	93	PRO	N-CA-CB	-6.25	97.60	103.17
1	kB	12	HIS	N-CA-C	6.25	119.70	109.76
1	23	4	GLN	N-CA-CB	6.25	121.06	110.49
1	kS	219	GLN	CB-CG-CD	6.25	123.23	112.60
1	l5	192	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	l8	195	ASN	OD1-CG-ND2	-6.25	116.35	122.60
1	2j	69	LEU	N-CA-CB	-6.25	100.93	110.12
1	2l	185	MET	CG-SD-CE	-6.25	87.14	100.90
1	2p	154	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	2q	174	ALA	CA-C-O	6.25	127.06	119.31
1	2I	112	GLN	CA-C-N	6.25	128.57	120.44
1	2I	112	GLN	C-N-CA	6.25	128.57	120.44
1	2N	74	ASN	CB-CA-C	-6.25	100.41	110.79
1	3b	26	VAL	CA-C-N	6.25	129.30	120.42
1	3b	26	VAL	C-N-CA	6.25	129.30	120.42
1	3k	113	GLU	CB-CA-C	6.25	122.14	110.70
1	3o	89	GLY	CA-C-N	6.25	127.66	119.84
1	3o	89	GLY	C-N-CA	6.25	127.66	119.84
1	3t	221	VAL	N-CA-C	6.25	117.28	110.21
1	4b	86	VAL	O-C-N	-6.25	116.00	122.63
1	4k	114	GLN	CA-C-N	6.25	129.03	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	114	GLN	C-N-CA	6.25	129.03	120.46
1	4n	70	LYS	O-C-N	-6.25	115.39	122.08
1	4A	220	GLY	CA-C-N	6.25	129.03	120.46
1	4A	220	GLY	C-N-CA	6.25	129.03	120.46
1	4D	57	ASN	CB-CA-C	-6.25	100.22	110.85
1	51	99	PRO	CA-C-O	-6.25	114.54	121.23
1	5J	106	GLY	CA-C-O	6.25	127.35	119.72
1	5S	108	THR	N-CA-CB	6.25	120.05	110.61
1	5T	84	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	5V	30	LYS	CA-C-N	6.25	133.49	121.54
1	5V	30	LYS	C-N-CA	6.25	133.49	121.54
1	6v	27	VAL	O-C-N	-6.25	113.25	121.82
1	6A	159	GLU	CA-C-N	6.25	126.17	119.85
1	6A	159	GLU	C-N-CA	6.25	126.17	119.85
1	7b	143	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	7D	168	PHE	CA-CB-CG	6.25	120.05	113.80
1	7E	145	TYR	CB-CG-CD2	-6.25	111.42	120.80
1	7Q	12	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	7T	216	THR	O-C-N	6.25	128.75	122.12
1	7V	6	LEU	O-C-N	-6.25	116.26	123.33
1	85	41	SER	N-CA-C	6.25	118.90	111.33
1	89	223	GLY	O-C-N	-6.25	115.52	121.77
1	8k	12	HIS	CA-CB-CG	6.25	120.05	113.80
1	8v	98	GLU	CB-CG-CD	-6.25	101.97	112.60
1	8F	9	GLN	CA-C-N	6.25	131.87	122.68
1	8F	9	GLN	C-N-CA	6.25	131.87	122.68
1	97	17	PRO	CA-C-N	6.25	128.57	120.44
1	97	17	PRO	C-N-CA	6.25	128.57	120.44
1	9I	154	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	9O	229	ARG	O-C-N	-6.25	115.26	122.89
1	Y	150	ILE	CA-C-N	6.25	129.17	120.29
1	Y	150	ILE	C-N-CA	6.25	129.17	120.29
1	bc	212	GLU	CA-C-O	6.25	127.59	120.90
1	17	87	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	by	141	ILE	O-C-N	-6.25	115.39	121.83
1	bJ	102	SER	N-CA-C	6.25	118.10	111.28
1	bK	138	LEU	CA-C-N	6.25	128.66	120.28
1	bK	138	LEU	C-N-CA	6.25	128.66	120.28
1	bR	159	GLU	O-C-N	-6.25	115.31	121.19
1	c5	203	LYS	N-CA-C	6.25	118.18	111.36
1	cb	57	ASN	CA-CB-CG	6.25	118.85	112.60
1	cn	105	ALA	CA-C-N	6.25	132.06	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cn	105	ALA	C-N-CA	6.25	132.06	120.87
1	cn	162	ARG	CA-C-N	6.25	128.98	120.54
1	cn	162	ARG	C-N-CA	6.25	128.98	120.54
1	cp	81	ASP	CA-CB-CG	6.25	118.85	112.60
1	cG	67	GLN	CA-C-O	-6.25	113.92	120.55
1	cI	93	PRO	N-CA-C	-6.25	105.02	113.40
1	1h	136	LEU	N-CA-CB	6.25	119.42	110.16
1	ds	21	ASN	N-CA-C	6.25	118.10	111.28
1	dF	74	ASN	CA-CB-CG	-6.25	106.35	112.60
1	dW	139	ASN	CA-C-N	6.25	128.57	120.44
1	dW	139	ASN	C-N-CA	6.25	128.57	120.44
1	ea	79	GLU	N-CA-C	6.25	117.76	111.07
1	eh	119	THR	CA-C-O	6.25	127.00	119.43
1	eV	20	LEU	N-CA-C	6.25	118.10	111.28
1	1u	132	ARG	N-CA-C	6.25	118.09	111.28
1	f0	62	HIS	CB-CG-ND1	-6.25	113.32	122.70
1	fa	229	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	fl	68	MET	O-C-N	-6.25	115.63	122.07
1	fB	150	ILE	CA-C-N	6.25	132.66	122.65
1	fB	150	ILE	C-N-CA	6.25	132.66	122.65
1	fI	224	PRO	O-C-N	-6.25	114.20	122.64
1	fS	62	HIS	ND1-CG-CD2	6.25	112.35	106.10
1	g0	229	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	g6	138	LEU	CA-C-N	6.25	128.94	120.44
1	g6	138	LEU	C-N-CA	6.25	128.94	120.44
1	c	92	GLU	O-C-N	-6.25	116.00	121.32
1	f	191	VAL	N-CA-C	6.25	117.00	110.62
1	w	68	MET	N-CA-C	6.25	118.90	111.33
1	B	75	GLU	N-CA-C	6.25	117.76	111.07
1	S	59	VAL	CA-C-N	6.25	133.67	121.41
1	S	59	VAL	C-N-CA	6.25	133.67	121.41
1	9	48	THR	N-CA-CB	6.25	119.24	110.11
1	1C	168	PHE	N-CA-C	6.25	118.61	111.11
1	gi	208	ALA	CA-C-O	6.25	127.33	119.95
1	gA	137	GLY	CA-C-N	6.25	128.94	120.44
1	gA	137	GLY	C-N-CA	6.25	128.94	120.44
1	gB	126	VAL	N-CA-C	6.25	117.00	110.62
1	gD	12	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	gQ	86	VAL	CB-CA-C	-6.25	103.00	111.63
1	hb	154	ARG	O-C-N	-6.25	115.55	123.24
1	hF	82	ARG	CA-C-O	6.25	127.38	120.82
1	hU	12	HIS	CE1-NE2-CD2	-6.25	102.75	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i1	214	MET	O-C-N	-6.25	115.02	122.15
1	i8	162	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	ic	132	ARG	N-CA-C	6.25	118.90	111.71
1	ie	114	GLN	N-CA-CB	-6.25	100.93	110.12
1	ih	44	SER	CB-CA-C	-6.25	100.05	110.68
1	ir	23	TRP	N-CA-C	6.25	117.76	111.07
1	ix	165	VAL	CB-CA-C	-6.25	103.59	112.22
1	iz	47	ALA	CA-C-N	6.25	131.03	121.03
1	iz	47	ALA	C-N-CA	6.25	131.03	121.03
1	iO	110	THR	CA-C-N	6.25	128.66	120.28
1	iO	110	THR	C-N-CA	6.25	128.66	120.28
1	iP	62	HIS	N-CA-C	6.25	119.80	111.30
1	iY	5	ASN	CA-CB-CG	-6.25	106.35	112.60
1	jn	59	VAL	N-CA-C	6.25	118.63	109.63
1	jB	72	THR	N-CA-C	6.25	118.09	111.28
1	jM	132	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	jX	229	ARG	N-CA-C	6.25	119.06	110.24
1	jY	55	MET	O-C-N	-6.25	115.63	122.07
1	ks	17	PRO	CA-C-N	6.25	129.13	120.63
1	ks	17	PRO	C-N-CA	6.25	129.13	120.63
1	kw	224	PRO	N-CA-CB	6.25	109.81	103.25
1	kS	53	ASN	N-CA-C	6.25	118.09	111.28
1	l5	143	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	lx	100	ARG	CA-C-O	-6.25	114.75	121.94
1	29	166	ASP	CA-C-O	6.25	127.38	120.82
1	2h	36	VAL	CA-C-N	6.25	124.18	120.24
1	2h	36	VAL	C-N-CA	6.25	124.18	120.24
1	2C	23	TRP	N-CA-C	6.25	118.61	111.11
1	3A	42	ALA	N-CA-C	6.25	118.09	111.28
1	3B	18	ARG	CA-C-N	6.25	128.66	120.28
1	3B	18	ARG	C-N-CA	6.25	128.66	120.28
1	3C	143	ARG	N-CA-C	6.25	118.09	111.28
1	3P	144	MET	CG-SD-CE	-6.25	87.15	100.90
1	45	103	ASP	CA-CB-CG	-6.25	106.35	112.60
1	4e	185	MET	N-CA-C	6.25	118.90	111.71
1	4j	35	GLU	CA-C-N	6.25	128.66	120.60
1	4j	35	GLU	C-N-CA	6.25	128.66	120.60
1	4n	141	ILE	CA-C-N	6.25	129.30	120.42
1	4n	141	ILE	C-N-CA	6.25	129.30	120.42
1	4r	59	VAL	N-CA-CB	6.25	117.34	110.53
1	4v	97	ARG	N-CA-C	-6.25	102.47	110.53
1	59	37	ILE	CA-C-O	-6.25	114.50	118.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	45	GLU	CB-CA-C	-6.25	99.65	109.84
1	5h	83	LEU	N-CA-C	6.25	117.76	111.07
1	5K	229	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	5V	180	GLU	CA-C-O	-6.25	114.21	120.90
1	6m	142	VAL	CA-CB-CG1	6.25	121.03	110.40
1	6t	115	ILE	CA-C-N	6.25	126.75	119.94
1	6t	115	ILE	C-N-CA	6.25	126.75	119.94
1	6z	146	SER	O-C-N	-6.25	116.00	121.31
1	6H	143	ARG	CB-CA-C	-6.25	101.06	110.88
1	6P	123	PRO	N-CA-CB	-6.25	97.09	103.15
1	6T	191	VAL	O-C-N	-6.25	113.98	122.11
1	6U	182	LYS	N-CA-C	6.25	118.09	111.28
1	6V	91	ILE	CA-C-N	6.25	129.37	120.49
1	6V	91	ILE	C-N-CA	6.25	129.37	120.49
1	72	48	THR	OG1-CB-CG2	-6.25	96.80	109.30
1	7A	98	GLU	CA-C-O	-6.25	113.30	119.49
1	7J	37	ILE	N-CA-CB	6.25	115.33	110.45
1	7P	141	ILE	N-CA-CB	6.25	119.04	110.54
1	8b	114	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	8l	153	ILE	O-C-N	-6.25	115.49	122.05
1	8I	179	GLN	O-C-N	-6.25	115.49	122.12
1	8N	189	LEU	CA-C-N	6.25	128.57	120.44
1	8N	189	LEU	C-N-CA	6.25	128.57	120.44
1	93	204	ALA	CA-C-O	6.25	127.05	120.42
1	9e	200	THR	N-CA-C	6.25	117.76	111.07
1	9r	170	LYS	N-CA-C	6.25	118.09	111.28
1	9S	172	LEU	N-CA-C	6.25	118.09	111.28
1	9V	229	ARG	NH1-CZ-NH2	-6.25	111.17	119.30
1	a1	66	MET	N-CA-C	6.25	118.09	111.28
1	a2	75	GLU	N-CA-CB	-6.25	100.94	110.01
1	ac	199	LYS	CA-C-N	6.25	128.95	120.38
1	ac	199	LYS	C-N-CA	6.25	128.95	120.38
1	aC	40	PHE	CA-CB-CG	-6.25	107.55	113.80
1	15	153	ILE	O-C-N	-6.25	115.82	122.95
1	16	118	MET	O-C-N	-6.25	114.23	122.42
1	bE	2	ILE	CA-C-O	6.25	127.26	120.57
1	bN	19	THR	CA-C-N	6.25	128.66	120.28
1	bN	19	THR	C-N-CA	6.25	128.66	120.28
1	1c	12	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	1c	97	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	cf	13	GLN	CA-C-N	6.25	130.75	120.94
1	cf	13	GLN	C-N-CA	6.25	130.75	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	97	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	ct	40	PHE	CA-CB-CG	-6.25	107.55	113.80
1	cQ	128	GLU	N-CA-C	-6.25	104.47	111.28
1	cZ	132	ARG	O-C-N	-6.25	115.49	122.12
1	d9	211	LEU	O-C-N	-6.25	114.58	122.27
1	ds	98	GLU	N-CA-C	6.25	118.48	109.48
1	dT	13	GLN	CB-CG-CD	6.25	123.23	112.60
1	eb	167	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	eb	170	LYS	N-CA-C	6.25	117.76	111.07
1	ej	113	GLU	O-C-N	-6.25	115.49	122.12
1	el	79	GLU	CA-C-O	-6.25	114.21	120.90
1	eB	104	ILE	CA-C-O	6.25	127.48	120.85
1	f0	211	LEU	N-CA-C	-6.25	105.62	113.18
1	fb	192	GLN	O-C-N	6.25	128.75	122.12
1	fe	102	SER	CA-C-N	6.25	128.66	120.28
1	fe	102	SER	C-N-CA	6.25	128.66	120.28
1	ff	127	GLY	CA-C-N	6.25	128.66	120.28
1	ff	127	GLY	C-N-CA	6.25	128.66	120.28
1	fW	226	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	g2	67	GLN	CA-C-N	6.25	129.28	120.28
1	g2	67	GLN	C-N-CA	6.25	129.28	120.28
1	g6	205	LEU	O-C-N	-6.25	115.34	122.09
1	0	53	ASN	O-C-N	-6.25	115.49	122.12
1	a	74	ASN	CA-CB-CG	-6.25	106.35	112.60
1	k	4	GLN	N-CA-C	6.25	119.29	110.23
1	v	226	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	gC	79	GLU	CB-CG-CD	6.25	123.22	112.60
1	1F	143	ARG	NE-CZ-NH2	6.25	124.83	119.20
1	h4	26	VAL	N-CA-C	6.25	116.42	110.42
1	hn	189	LEU	N-CA-C	6.25	118.09	111.28
1	j1	20	LEU	O-C-N	-6.25	115.34	122.09
1	j5	11	VAL	O-C-N	-6.25	115.83	122.83
1	jq	132	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	kJ	74	ASN	CA-C-N	6.25	128.66	120.28
1	kJ	74	ASN	C-N-CA	6.25	128.66	120.28
1	kN	92	GLU	N-CA-C	6.25	123.62	109.81
1	kR	141	ILE	N-CA-C	6.25	117.75	110.62
1	lE	83	LEU	N-CA-C	6.25	117.78	110.97
1	2s	12	HIS	CB-CA-C	-6.25	99.44	109.75
1	2P	77	ALA	CA-C-N	6.25	128.66	120.28
1	2P	77	ALA	C-N-CA	6.25	128.66	120.28
1	3Q	32	PHE	CB-CA-C	6.25	121.03	112.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	51	ASP	CA-C-O	6.25	127.17	120.55
1	5V	114	GLN	CA-C-O	6.25	127.56	121.00
1	6g	69	LEU	N-CA-C	6.25	117.76	111.07
1	6w	218	CYS	N-CA-C	6.25	120.27	111.52
1	7r	67	GLN	CB-CG-CD	-6.25	101.97	112.60
1	8i	25	LYS	CA-C-N	6.25	128.56	120.56
1	8i	25	LYS	C-N-CA	6.25	128.56	120.56
1	9X	132	ARG	N-CA-C	6.25	118.09	111.28
1	at	189	LEU	O-C-N	-6.25	113.90	122.46
1	cf	198	CYS	N-CA-C	6.25	118.89	111.33
1	cG	108	THR	CA-CB-OG1	6.25	118.97	109.60
1	cH	229	ARG	O-C-N	-6.25	115.86	123.30
1	cM	17	PRO	CA-C-O	-6.25	111.03	118.90
1	du	195	ASN	CA-C-N	6.25	127.65	119.84
1	du	195	ASN	C-N-CA	6.25	127.65	119.84
1	dx	80	TRP	CA-C-O	-6.25	113.92	120.55
1	dG	10	MET	CB-CA-C	6.25	122.86	110.42
1	e6	155	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	fA	137	GLY	CA-C-O	-6.25	114.03	120.66
1	fD	12	HIS	CA-CB-CG	-6.25	107.55	113.80
1	g3	22	ALA	CA-C-O	-6.25	113.80	120.42
1	g7	229	ARG	N-CA-CB	6.25	119.17	110.17
1	0	126	VAL	CB-CA-C	6.25	119.88	111.88
1	e	139	ASN	CA-C-N	6.25	128.56	120.44
1	e	139	ASN	C-N-CA	6.25	128.56	120.44
1	h	166	ASP	CA-C-O	-6.25	114.26	120.82
1	U	58	THR	CA-C-N	6.25	131.61	123.11
1	U	58	THR	C-N-CA	6.25	131.61	123.11
1	7	97	ARG	O-C-N	-6.25	114.28	122.59
1	8	226	HIS	O-C-N	-6.25	115.86	123.30
1	gf	158	LYS	O-C-N	-6.25	114.68	122.24
1	gp	144	MET	N-CA-C	6.25	118.89	111.71
1	gz	122	PRO	N-CA-CB	6.25	109.47	102.60
1	gL	87	HIS	O-C-N	-6.25	115.44	122.75
1	h8	101	GLY	CA-C-N	6.25	128.65	120.28
1	h8	101	GLY	C-N-CA	6.25	128.65	120.28
1	hj	202	LEU	N-CA-CB	-6.25	100.93	110.12
1	hu	5	ASN	CA-C-N	6.25	133.47	121.54
1	hu	5	ASN	C-N-CA	6.25	133.47	121.54
1	hH	62	HIS	ND1-CG-CD2	6.25	112.35	106.10
1	hP	87	HIS	CB-CG-CD2	-6.25	123.08	131.20
1	hV	120	HIS	CE1-NE2-CD2	-6.25	102.75	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Q	200	THR	O-C-N	-6.25	115.63	122.07
1	iz	140	LYS	O-C-N	-6.25	115.50	122.12
1	iA	217	ALA	O-C-N	-6.25	115.73	122.85
1	iC	88	ALA	CA-C-O	-6.25	113.93	120.55
1	iF	27	VAL	CA-C-O	6.25	127.14	119.58
1	iJ	110	THR	N-CA-CB	6.25	120.31	110.56
1	iO	104	ILE	N-CA-C	6.25	117.74	110.62
1	jb	185	MET	O-C-N	-6.25	115.50	122.12
1	k2	167	ARG	N-CA-C	6.25	118.09	111.28
1	ki	219	GLN	N-CA-C	6.25	119.05	110.24
1	kH	122	PRO	CA-C-N	6.25	126.26	119.89
1	kH	122	PRO	C-N-CA	6.25	126.26	119.89
1	kH	124	ILE	N-CA-C	-6.25	100.61	107.73
1	kT	76	GLU	N-CA-C	6.25	118.09	111.28
1	l3	36	VAL	O-C-N	-6.25	115.56	121.87
1	l7	166	ASP	CA-CB-CG	6.25	118.85	112.60
1	l8	124	ILE	O-C-N	-6.25	117.43	121.37
1	lg	82	ARG	N-CA-C	6.25	117.75	111.07
1	lu	167	ARG	CA-C-N	6.25	128.90	120.65
1	lu	167	ARG	C-N-CA	6.25	128.90	120.65
1	lB	100	ARG	CA-C-N	6.25	127.03	120.03
1	lB	100	ARG	C-N-CA	6.25	127.03	120.03
1	lG	109	SER	N-CA-C	6.25	116.32	108.45
1	lQ	25	LYS	N-CA-C	6.25	118.89	111.33
1	2g	100	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	2w	1	PRO	N-CA-CB	-6.25	96.13	103.00
1	2A	75	GLU	N-CA-C	6.25	118.61	111.11
1	3s	164	TYR	CB-CG-CD1	6.25	130.17	120.80
1	3I	226	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	3S	143	ARG	CA-C-N	6.25	128.56	120.44
1	3S	143	ARG	C-N-CA	6.25	128.56	120.44
1	45	216	THR	N-CA-C	-6.25	104.93	113.30
1	46	13	GLN	CA-CB-CG	6.25	126.60	114.10
1	4f	226	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	4l	18	ARG	CA-C-O	6.25	127.38	120.82
1	4p	212	GLU	O-C-N	-6.25	115.50	122.12
1	4r	226	HIS	CA-CB-CG	6.25	120.05	113.80
1	4J	186	THR	N-CA-CB	6.25	119.32	109.82
1	5n	167	ARG	CA-C-O	-6.25	113.04	120.10
1	5t	207	PRO	N-CA-C	-6.25	105.86	114.98
1	5w	76	GLU	CA-C-N	6.25	129.28	120.28
1	5w	76	GLU	C-N-CA	6.25	129.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5z	68	MET	CA-C-N	6.25	128.56	120.44
1	5z	68	MET	C-N-CA	6.25	128.56	120.44
1	5B	37	ILE	CA-C-O	-6.25	114.50	118.69
1	5R	116	GLY	O-C-N	6.25	128.32	122.13
1	61	213	GLU	CA-C-O	6.25	127.04	120.42
1	6d	5	ASN	N-CA-C	6.25	119.41	110.10
1	6j	155	GLN	CG-CD-NE2	6.25	125.77	116.40
1	6m	15	ILE	O-C-N	-6.25	116.06	122.75
1	6t	172	LEU	CA-C-N	6.25	129.81	120.31
1	6t	172	LEU	C-N-CA	6.25	129.81	120.31
1	6B	114	GLN	CA-C-N	6.25	128.43	120.56
1	6B	114	GLN	C-N-CA	6.25	128.43	120.56
1	6P	1	PRO	CB-CA-C	6.25	121.97	110.10
1	6S	50	GLN	CA-C-N	6.25	128.56	120.44
1	6S	50	GLN	C-N-CA	6.25	128.56	120.44
1	6T	56	LEU	CA-C-N	6.25	128.65	120.28
1	6T	56	LEU	C-N-CA	6.25	128.65	120.28
1	72	223	GLY	N-CA-C	6.25	119.78	112.10
1	7C	12	HIS	CB-CG-CD2	-6.25	123.08	131.20
1	7P	102	SER	CA-C-N	6.25	128.65	120.28
1	7P	102	SER	C-N-CA	6.25	128.65	120.28
1	7X	129	ILE	CA-C-N	6.25	129.28	120.28
1	7X	129	ILE	C-N-CA	6.25	129.28	120.28
1	8r	219	GLN	N-CA-C	6.25	119.29	110.23
1	8s	67	GLN	CA-C-O	-6.25	113.93	120.55
1	9o	40	PHE	CA-C-N	6.25	128.56	120.44
1	9o	40	PHE	C-N-CA	6.25	128.56	120.44
1	9N	129	ILE	N-CA-CB	6.25	118.57	110.57
1	9P	167	ARG	CA-C-O	6.25	127.04	120.42
1	10	164	TYR	N-CA-C	6.25	118.64	111.02
1	an	208	ALA	O-C-N	-6.25	114.63	122.19
1	ap	133	TRP	CB-CG-CD2	-6.25	118.05	126.80
1	aM	226	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	aR	134	ILE	CA-C-N	6.25	128.66	120.60
1	aR	134	ILE	C-N-CA	6.25	128.66	120.60
1	aY	53	ASN	CA-CB-CG	6.25	118.85	112.60
1	b0	120	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	b1	154	ARG	CD-NE-CZ	-6.25	115.65	124.40
1	by	179	GLN	CA-C-N	6.25	128.65	120.28
1	by	179	GLN	C-N-CA	6.25	128.65	120.28
1	bR	22	ALA	CA-C-N	6.25	128.98	120.54
1	bR	22	ALA	C-N-CA	6.25	128.98	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cn	167	ARG	CA-C-O	6.25	127.18	120.24
1	co	228	ALA	CA-C-O	6.25	127.06	119.31
1	1i	138	LEU	N-CA-CB	6.25	119.31	110.12
1	dc	78	ALA	CB-CA-C	-6.25	101.03	110.90
1	dh	62	HIS	N-CA-C	6.25	120.04	111.54
1	dM	212	GLU	N-CA-C	6.25	118.09	111.28
1	eh	68	MET	CA-C-O	6.25	127.14	120.70
1	1r	53	ASN	CA-C-O	-6.25	114.26	120.82
1	fn	40	PHE	CA-C-N	6.25	128.65	120.28
1	fn	40	PHE	C-N-CA	6.25	128.65	120.28
1	fA	59	VAL	CB-CA-C	-6.25	103.86	112.04
1	g2	193	ASN	CA-CB-CG	-6.25	106.35	112.60
1	g4	18	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	0	111	LEU	CB-CA-C	6.25	121.16	110.79
1	h	26	VAL	O-C-N	-6.25	115.40	121.90
1	J	104	ILE	O-C-N	-6.25	115.79	121.91
1	7	12	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	gg	55	MET	CA-C-O	-6.25	114.20	121.07
1	1F	32	PHE	N-CA-C	-6.25	103.80	112.30
1	h5	67	GLN	CA-C-N	6.25	128.56	120.44
1	h5	67	GLN	C-N-CA	6.25	128.56	120.44
1	ha	195	ASN	CA-C-O	-6.25	113.67	120.17
1	i1	121	ASN	CA-CB-CG	6.25	118.85	112.60
1	i4	147	PRO	CA-C-N	6.25	130.75	120.94
1	i4	147	PRO	C-N-CA	6.25	130.75	120.94
1	ic	132	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	ix	117	TRP	CA-C-N	6.25	128.94	120.38
1	ix	117	TRP	C-N-CA	6.25	128.94	120.38
1	iG	79	GLU	N-CA-C	6.25	118.09	111.28
1	iL	37	ILE	N-CA-C	6.25	119.85	112.35
1	1S	184	TRP	CA-C-N	6.25	128.65	120.28
1	1S	184	TRP	C-N-CA	6.25	128.65	120.28
1	1V	185	MET	N-CA-C	6.25	118.17	111.36
1	jm	82	ARG	CA-C-O	6.25	126.27	119.15
1	jE	52	LEU	CA-C-N	6.25	128.97	120.54
1	jE	52	LEU	C-N-CA	6.25	128.97	120.54
1	jT	20	LEU	O-C-N	-6.25	115.03	122.15
1	jT	165	VAL	CA-C-O	-6.25	114.91	121.41
1	jV	54	THR	CA-C-N	6.25	128.65	120.28
1	jV	54	THR	C-N-CA	6.25	128.65	120.28
1	jV	221	VAL	CA-C-O	6.25	126.89	120.39
1	k1	151	LEU	CA-C-O	6.25	126.66	119.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k4	168	PHE	CA-CB-CG	-6.25	107.55	113.80
1	ko	37	ILE	O-C-N	-6.25	116.42	120.42
1	kv	63	GLN	O-C-N	-6.25	113.96	122.33
1	kJ	207	PRO	CA-C-N	6.25	129.47	120.79
1	kJ	207	PRO	C-N-CA	6.25	129.47	120.79
1	le	196	PRO	N-CA-CB	6.25	109.81	103.25
1	lj	70	LYS	CA-C-N	6.25	128.94	120.38
1	lj	70	LYS	C-N-CA	6.25	128.94	120.38
1	lj	162	ARG	NE-CZ-NH2	-6.25	113.58	119.20
1	lo	162	ARG	N-CA-C	6.25	118.09	111.28
1	lA	30	LYS	CA-C-O	6.25	126.75	119.32
1	lA	113	GLU	N-CA-C	-6.25	104.55	111.36
1	lD	34	PRO	CA-C-N	6.25	133.47	121.54
1	lD	34	PRO	C-N-CA	6.25	133.47	121.54
1	2c	116	GLY	O-C-N	-6.25	116.13	122.19
1	2d	226	HIS	CE1-NE2-CD2	-6.25	102.75	109.00
1	2w	54	THR	O-C-N	-6.25	115.34	122.09
1	2I	18	ARG	CD-NE-CZ	6.25	133.15	124.40
1	2I	59	VAL	O-C-N	-6.25	115.81	121.87
1	2I	109	SER	N-CA-CB	6.25	120.90	110.59
1	2K	183	ASN	CA-C-O	6.25	127.17	120.55
1	2P	105	ALA	O-C-N	-6.25	114.12	122.43
1	2Q	174	ALA	N-CA-C	6.25	120.74	113.18
1	2Z	176	GLN	N-CA-C	6.25	120.91	113.16
1	3F	13	GLN	N-CA-CB	6.25	121.24	111.56
1	3Q	193	ASN	CA-CB-CG	6.25	118.85	112.60
1	4m	50	GLN	CB-CG-CD	6.25	123.22	112.60
1	4P	26	VAL	O-C-N	-6.25	115.79	121.91
1	4V	152	ASP	CA-C-N	6.25	128.87	120.50
1	4V	152	ASP	C-N-CA	6.25	128.87	120.50
1	50	146	SER	CA-C-O	-6.25	111.60	120.16
1	53	11	VAL	CA-C-O	-6.25	114.49	121.36
1	5s	103	ASP	CA-C-N	6.25	129.02	120.46
1	5s	103	ASP	C-N-CA	6.25	129.02	120.46
1	5s	124	ILE	CA-C-O	6.25	122.84	119.15
1	5t	40	PHE	CA-C-N	6.25	128.65	120.28
1	5t	40	PHE	C-N-CA	6.25	128.65	120.28
1	5Y	182	LYS	CA-C-N	6.25	128.65	120.28
1	5Y	182	LYS	C-N-CA	6.25	128.65	120.28
1	64	54	THR	N-CA-CB	6.25	119.07	110.01
1	66	100	ARG	NE-CZ-NH2	-6.25	113.58	119.20
1	6f	35	GLU	CA-C-N	6.25	129.34	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6f	35	GLU	C-N-CA	6.25	129.34	120.53
1	6f	63	GLN	CB-CA-C	6.25	121.16	110.79
1	6g	189	LEU	O-C-N	-6.25	115.50	122.12
1	6r	120	HIS	CB-CG-CD2	6.25	139.32	131.20
1	6C	185	MET	O-C-N	-6.25	115.50	122.12
1	7k	147	PRO	N-CA-C	6.25	125.34	112.47
1	7o	9	GLN	CA-C-O	6.25	129.09	121.84
1	7w	96	MET	O-C-N	-6.25	115.09	122.96
1	7E	119	THR	N-CA-CB	6.25	119.84	110.53
1	7E	187	GLU	N-CA-C	6.25	117.75	111.07
1	7G	62	HIS	CA-CB-CG	6.25	120.05	113.80
1	7L	199	LYS	O-C-N	-6.25	115.50	122.12
1	7Y	63	GLN	OE1-CD-NE2	-6.25	116.35	122.60
1	8v	3	VAL	O-C-N	-6.25	116.62	123.18
1	8w	159	GLU	CA-C-O	-6.25	114.70	119.32
1	8F	128	GLU	O-C-N	-6.25	115.03	122.15
1	8O	190	LEU	N-CA-C	6.25	118.09	111.28
1	8P	62	HIS	ND1-CG-CD2	6.25	112.35	106.10
1	91	223	GLY	CA-C-N	6.25	126.21	119.78
1	91	223	GLY	C-N-CA	6.25	126.21	119.78
1	9b	146	SER	N-CA-C	6.25	117.25	109.57
1	9D	25	LYS	N-CA-C	6.25	118.09	111.28
1	9J	95	GLN	O-C-N	-6.25	115.90	122.96
1	9R	226	HIS	ND1-CE1-NE2	6.25	114.65	108.40
1	a9	20	LEU	CA-C-N	6.25	128.56	120.44
1	a9	20	LEU	C-N-CA	6.25	128.56	120.44
1	aC	2	ILE	N-CA-C	-6.25	98.63	107.75
1	bb	184	TRP	N-CA-C	6.25	118.09	111.28
1	bM	1	PRO	CA-C-N	6.25	130.43	122.37
1	bM	1	PRO	C-N-CA	6.25	130.43	122.37
1	c1	100	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	cy	170	LYS	O-C-N	-6.25	115.64	122.07
1	1f	137	GLY	N-CA-C	6.25	120.45	112.83
1	cC	190	LEU	O-C-N	6.25	128.59	122.09
1	cH	176	GLN	CG-CD-NE2	6.25	125.77	116.40
1	cN	42	ALA	O-C-N	-6.25	113.96	122.33
1	cR	72	THR	OG1-CB-CG2	-6.25	96.81	109.30
1	cT	177	ALA	N-CA-C	6.25	119.05	110.24
1	db	195	ASN	CA-C-N	6.25	127.65	119.84
1	db	195	ASN	C-N-CA	6.25	127.65	119.84
1	dh	18	ARG	N-CA-C	6.25	118.09	111.28
1	dr	133	TRP	CB-CG-CD2	-6.25	118.05	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dL	51	ASP	CA-C-N	6.25	128.65	120.28
1	dL	51	ASP	C-N-CA	6.25	128.65	120.28
1	e2	82	ARG	CA-C-O	6.25	127.33	120.90
1	ef	129	ILE	CA-CB-CG1	6.25	121.02	110.40
1	en	40	PHE	CA-CB-CG	6.25	120.05	113.80
1	es	119	THR	CA-CB-OG1	6.25	118.97	109.60
1	eu	13	GLN	CA-C-N	6.25	130.18	120.75
1	eu	13	GLN	C-N-CA	6.25	130.18	120.75
1	1t	183	ASN	CA-CB-CG	6.25	118.85	112.60
1	eU	62	HIS	O-C-N	-6.25	114.22	122.47
1	eY	54	THR	O-C-N	-6.25	115.59	122.09
1	fc	132	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	fe	167	ARG	CD-NE-CZ	6.25	133.15	124.40
1	fv	113	GLU	CA-C-N	6.25	128.56	120.44
1	fv	113	GLU	C-N-CA	6.25	128.56	120.44
1	fw	227	LYS	O-C-N	-6.25	115.20	122.95
1	g3	18	ARG	CA-C-O	6.25	127.17	120.55
1	g4	12	HIS	CB-CG-CD2	-6.25	123.08	131.20
1	g7	78	ALA	CA-C-O	6.25	127.04	120.42
1	N	104	ILE	CA-C-O	6.25	127.45	120.95
1	N	146	SER	O-C-N	-6.25	116.00	121.31
1	4	139	ASN	OD1-CG-ND2	6.25	128.85	122.60
1	W	154	ARG	NE-CZ-NH2	6.25	124.82	119.20
1	ge	201	ILE	N-CA-C	6.25	117.74	110.62
1	gP	61	GLY	CA-C-N	6.25	131.27	122.46
1	gP	61	GLY	C-N-CA	6.25	131.27	122.46
1	hw	218	CYS	N-CA-CB	6.25	121.05	110.49
1	hB	136	LEU	CA-C-N	6.25	126.91	119.98
1	hB	136	LEU	C-N-CA	6.25	126.91	119.98
1	hB	203	LYS	O-C-N	-6.25	115.53	122.03
1	hG	133	TRP	CA-C-N	6.25	129.29	120.42
1	hG	133	TRP	C-N-CA	6.25	129.29	120.42
1	hV	162	ARG	NH1-CZ-NH2	-6.25	111.18	119.30
1	i8	181	VAL	CA-C-N	6.25	128.65	120.28
1	i8	181	VAL	C-N-CA	6.25	128.65	120.28
1	iv	118	MET	CA-C-N	6.25	128.56	120.44
1	iv	118	MET	C-N-CA	6.25	128.56	120.44
1	jA	168	PHE	CA-C-O	-6.25	114.26	120.82
1	jG	193	ASN	OD1-CG-ND2	-6.25	116.36	122.60
1	kp	100	ARG	CA-C-N	6.25	128.15	120.22
1	kp	100	ARG	C-N-CA	6.25	128.15	120.22
1	ks	67	GLN	N-CA-C	6.25	118.89	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kV	98	GLU	N-CA-C	6.25	117.52	109.65
1	kY	100	ARG	N-CA-C	-6.25	100.74	110.42
1	l9	120	HIS	CA-C-O	6.25	129.09	122.03
1	lh	87	HIS	CB-CG-ND1	6.25	132.07	122.70
1	lw	16	SER	N-CA-CB	6.25	118.47	110.04
1	lK	18	ARG	CA-C-O	6.25	127.17	120.55
1	lL	135	ILE	N-CA-CB	6.25	117.86	110.55
1	lN	31	ALA	N-CA-C	6.25	118.60	111.11
1	2g	212	GLU	O-C-N	-6.25	115.59	122.09
1	3w	175	GLU	N-CA-C	6.25	119.40	110.10
1	47	6	LEU	N-CA-C	-6.25	99.81	109.24
1	4h	96	MET	CA-C-N	6.25	129.71	120.90
1	4h	96	MET	C-N-CA	6.25	129.71	120.90
1	4L	67	GLN	CA-C-N	6.25	128.97	120.54
1	4L	67	GLN	C-N-CA	6.25	128.97	120.54
1	4V	105	ALA	N-CA-C	-6.25	105.53	113.02
1	5l	126	VAL	CA-C-N	6.25	128.21	120.34
1	5l	126	VAL	C-N-CA	6.25	128.21	120.34
1	5F	5	ASN	CA-C-O	-6.25	114.05	121.11
1	5T	78	ALA	O-C-N	6.25	128.50	122.07
1	5U	67	GLN	O-C-N	-6.25	115.50	122.12
1	7w	203	LYS	CA-C-N	6.25	128.65	120.28
1	7w	203	LYS	C-N-CA	6.25	128.65	120.28
1	7M	21	ASN	CA-CB-CG	-6.25	106.36	112.60
1	81	18	ARG	NE-CZ-NH1	6.25	127.75	121.50
1	8c	69	LEU	CA-C-N	6.25	128.65	120.28
1	8c	69	LEU	C-N-CA	6.25	128.65	120.28
1	8e	19	THR	O-C-N	-6.25	113.96	122.33
1	99	174	ALA	O-C-N	-6.25	113.31	122.43
1	9u	162	ARG	CA-C-N	6.25	129.16	120.29
1	9u	162	ARG	C-N-CA	6.25	129.16	120.29
1	9x	115	ILE	CA-C-N	6.25	126.87	119.94
1	9x	115	ILE	C-N-CA	6.25	126.87	119.94
1	aj	212	GLU	CA-C-N	6.25	128.56	120.44
1	aj	212	GLU	C-N-CA	6.25	128.56	120.44
1	aU	148	THR	CA-C-N	6.25	133.47	121.54
1	aU	148	THR	C-N-CA	6.25	133.47	121.54
1	bo	28	GLU	N-CA-C	6.25	118.09	111.28
1	bP	87	HIS	CG-CD2-NE2	6.25	113.44	107.20
1	bR	119	THR	CA-C-O	6.25	126.66	119.35
1	bZ	54	THR	CA-C-N	6.25	128.56	120.44
1	bZ	54	THR	C-N-CA	6.25	128.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cY	138	LEU	CA-C-N	6.25	128.56	120.44
1	cY	138	LEU	C-N-CA	6.25	128.56	120.44
1	d5	207	PRO	N-CA-C	-6.25	105.84	114.27
1	de	21	ASN	N-CA-C	-6.25	103.78	111.40
1	du	189	LEU	N-CA-CB	-6.25	100.68	110.30
1	dC	208	ALA	N-CA-CB	-6.25	100.95	110.26
1	dT	88	ALA	N-CA-C	6.25	119.67	110.30
1	er	56	LEU	N-CA-C	6.25	118.89	111.71
1	eA	166	ASP	O-C-N	-6.25	115.50	122.12
1	eE	53	ASN	OD1-CG-ND2	-6.25	116.36	122.60
1	fj	75	GLU	O-C-N	-6.25	115.50	122.12
1	fM	56	LEU	CA-C-O	6.25	127.04	120.42
1	g4	148	THR	N-CA-C	-6.25	97.68	107.73
1	gh	166	ASP	N-CA-CB	-6.24	100.94	110.12
1	gk	18	ARG	CA-C-O	6.24	127.15	120.10
1	gk	66	MET	CA-C-O	6.24	127.17	120.55
1	gm	186	THR	CA-CB-OG1	-6.24	100.23	109.60
1	gp	73	ILE	CA-C-N	6.24	128.65	120.28
1	gp	73	ILE	C-N-CA	6.24	128.65	120.28
1	gq	81	ASP	N-CA-C	6.24	119.06	111.82
1	1D	74	ASN	CA-C-N	6.24	128.56	120.44
1	1D	74	ASN	C-N-CA	6.24	128.56	120.44
1	gs	211	LEU	CA-C-N	6.24	128.97	120.54
1	gs	211	LEU	C-N-CA	6.24	128.97	120.54
1	gC	73	ILE	O-C-N	-6.24	115.79	121.91
1	hI	147	PRO	N-CA-CB	6.24	109.81	103.25
1	i2	212	GLU	CA-C-N	6.24	128.56	120.44
1	i2	212	GLU	C-N-CA	6.24	128.56	120.44
1	io	63	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	iF	180	GLU	CA-C-O	-6.24	114.22	120.90
1	iQ	199	LYS	O-C-N	6.24	128.74	122.12
1	j5	142	VAL	N-CA-C	6.24	117.74	110.62
1	j7	9	GLN	CA-C-N	6.24	129.58	120.71
1	j7	9	GLN	C-N-CA	6.24	129.58	120.71
1	jb	92	GLU	N-CA-C	6.24	123.61	109.81
1	jd	195	ASN	CA-C-N	6.24	125.87	119.56
1	jd	195	ASN	C-N-CA	6.24	125.87	119.56
1	jL	18	ARG	CA-C-N	6.24	128.65	120.28
1	jL	18	ARG	C-N-CA	6.24	128.65	120.28
1	jQ	117	TRP	N-CA-C	6.24	118.09	111.28
1	kk	223	GLY	CA-C-N	6.24	126.19	119.76
1	kk	223	GLY	C-N-CA	6.24	126.19	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ko	5	ASN	CA-C-N	6.24	129.58	120.71
1	ko	5	ASN	C-N-CA	6.24	129.58	120.71
1	ko	186	THR	N-CA-CB	6.24	119.30	110.12
1	kJ	54	THR	N-CA-C	6.24	118.89	111.71
1	kL	198	CYS	CA-C-N	6.24	128.65	120.28
1	kL	198	CYS	C-N-CA	6.24	128.65	120.28
1	l0	141	ILE	CA-C-O	-6.24	114.46	120.95
1	l0	213	GLU	N-CA-C	6.24	118.09	111.28
1	lb	159	GLU	CA-C-N	6.24	127.64	119.84
1	lb	159	GLU	C-N-CA	6.24	127.64	119.84
1	lh	61	GLY	CA-C-N	6.24	131.86	122.68
1	lh	61	GLY	C-N-CA	6.24	131.86	122.68
1	lp	179	GLN	CA-C-O	-6.24	113.93	120.55
1	lC	12	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	2d	132	ARG	CA-C-N	6.24	128.65	120.28
1	2d	132	ARG	C-N-CA	6.24	128.65	120.28
1	2e	48	THR	N-CA-CB	6.24	119.22	110.11
1	2x	167	ARG	CA-C-O	6.24	127.37	120.63
1	2N	82	ARG	N-CA-C	6.24	118.89	111.71
1	2Q	169	TYR	CB-CG-CD2	6.24	130.16	120.80
1	30	103	ASP	CA-CB-CG	6.24	118.84	112.60
1	31	90	PRO	N-CA-CB	6.24	109.81	103.25
1	3d	10	MET	O-C-N	-6.24	115.57	123.06
1	3k	12	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	3k	53	ASN	CA-CB-CG	-6.24	106.36	112.60
1	3O	91	ILE	O-C-N	-6.24	115.89	122.57
1	3S	189	LEU	N-CA-C	6.24	118.09	111.28
1	4l	132	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	4l	143	ARG	NH1-CZ-NH2	-6.24	111.18	119.30
1	4s	84	HIS	O-C-N	-6.24	115.83	121.39
1	4R	209	ALA	N-CA-C	6.24	124.10	110.80
1	5E	128	GLU	N-CA-C	6.24	118.89	111.33
1	5X	213	GLU	CA-C-N	6.24	128.65	120.28
1	5X	213	GLU	C-N-CA	6.24	128.65	120.28
1	5Z	220	GLY	CA-C-O	6.24	126.09	119.04
1	64	54	THR	CA-C-N	6.24	128.97	120.54
1	64	54	THR	C-N-CA	6.24	128.97	120.54
1	6d	178	SER	O-C-N	-6.24	115.19	122.87
1	6d	197	ASP	CA-CB-CG	6.24	118.84	112.60
1	6l	9	GLN	CA-C-O	6.24	127.96	120.28
1	6A	197	ASP	CA-C-N	6.24	128.56	120.44
1	6A	197	ASP	C-N-CA	6.24	128.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6H	77	ALA	CA-C-O	6.24	127.04	120.42
1	6R	132	ARG	N-CA-C	6.24	118.60	111.11
1	74	28	GLU	N-CA-C	6.24	118.09	111.28
1	7c	111	LEU	CA-C-N	6.24	129.27	120.28
1	7c	111	LEU	C-N-CA	6.24	129.27	120.28
1	7e	24	VAL	N-CA-CB	-6.24	102.05	110.54
1	7i	165	VAL	N-CA-C	6.24	117.74	110.62
1	7s	145	TYR	CA-CB-CG	-6.24	102.66	113.90
1	7y	222	GLY	CA-C-N	6.24	131.67	121.87
1	7y	222	GLY	C-N-CA	6.24	131.67	121.87
1	7N	123	PRO	N-CA-C	6.24	121.04	111.11
1	7T	193	ASN	OD1-CG-ND2	-6.24	116.36	122.60
1	89	84	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	8a	163	ASP	CA-CB-CG	6.24	118.84	112.60
1	8g	117	TRP	CB-CG-CD1	-6.24	117.53	126.90
1	8o	144	MET	CA-C-N	6.24	128.65	120.28
1	8o	144	MET	C-N-CA	6.24	128.65	120.28
1	8t	189	LEU	CA-C-N	6.24	129.47	120.79
1	8t	189	LEU	C-N-CA	6.24	129.47	120.79
1	8J	48	THR	CA-C-N	6.24	127.64	119.84
1	8J	48	THR	C-N-CA	6.24	127.64	119.84
1	8L	78	ALA	O-C-N	-6.24	115.50	122.12
1	9a	36	VAL	N-CA-C	6.24	117.74	110.62
1	9x	172	LEU	CA-C-N	6.24	128.65	120.28
1	9x	172	LEU	C-N-CA	6.24	128.65	120.28
1	9D	214	MET	CA-C-O	6.24	127.17	120.55
1	ao	5	ASN	CA-C-N	6.24	128.97	120.54
1	ao	5	ASN	C-N-CA	6.24	128.97	120.54
1	12	16	SER	O-C-N	-6.24	114.80	121.42
1	av	23	TRP	N-CA-C	6.24	118.08	111.28
1	ay	23	TRP	CA-CB-CG	6.24	125.46	113.60
1	aB	18	ARG	NE-CZ-NH2	-6.24	113.58	119.20
1	13	183	ASN	N-CA-C	6.24	117.75	111.07
1	aQ	27	VAL	N-CA-C	6.24	116.41	110.42
1	aV	19	THR	N-CA-CB	6.24	119.06	110.01
1	ba	100	ARG	CA-C-N	6.24	127.94	120.14
1	ba	100	ARG	C-N-CA	6.24	127.94	120.14
1	be	75	GLU	N-CA-C	6.24	118.09	111.28
1	bf	132	ARG	O-C-N	-6.24	115.50	122.12
1	17	129	ILE	CA-C-O	-6.24	114.55	121.17
1	17	153	ILE	O-C-N	-6.24	116.30	122.67
1	bl	11	VAL	CA-C-O	6.24	126.98	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bA	81	ASP	N-CA-C	6.24	120.16	112.54
1	bH	11	VAL	O-C-N	-6.24	116.60	123.03
1	bQ	182	LYS	CA-C-O	-6.24	114.27	120.82
1	bR	154	ARG	NE-CZ-NH2	-6.24	113.58	119.20
1	bW	24	VAL	O-C-N	-6.24	115.81	121.87
1	bW	173	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	cd	132	ARG	CA-C-N	6.24	128.97	120.54
1	cd	132	ARG	C-N-CA	6.24	128.97	120.54
1	cf	171	THR	N-CA-C	6.24	118.17	111.36
1	ct	51	ASP	CA-C-O	6.24	127.13	120.70
1	cF	163	ASP	CA-CB-CG	-6.24	106.36	112.60
1	cL	108	THR	CA-C-O	6.24	126.61	119.18
1	cO	163	ASP	O-C-N	6.24	129.27	122.15
1	cU	175	GLU	O-C-N	-6.24	115.27	122.89
1	cY	87	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	d6	115	ILE	N-CA-C	6.24	116.99	110.62
1	dg	62	HIS	CB-CG-ND1	-6.24	113.34	122.70
1	dk	229	ARG	NH1-CZ-NH2	-6.24	111.18	119.30
1	do	118	MET	CB-CA-C	-6.24	100.43	110.79
1	dP	179	GLN	N-CA-C	6.24	118.89	111.33
1	e5	182	LYS	CA-C-O	6.24	127.37	120.63
1	eC	228	ALA	CA-C-N	6.24	130.18	120.75
1	eC	228	ALA	C-N-CA	6.24	130.18	120.75
1	eL	64	ALA	CA-C-O	6.24	127.17	120.55
1	fa	132	ARG	NH1-CZ-NH2	-6.24	111.18	119.30
1	fp	227	LYS	CB-CA-C	6.24	121.54	111.36
1	fF	201	ILE	CA-C-O	-6.24	114.55	121.17
1	1A	178	SER	CB-CA-C	6.24	120.19	109.51
1	g6	150	ILE	CA-C-O	6.24	127.59	119.85
1	u	207	PRO	N-CA-C	6.24	125.33	112.47
1	z	74	ASN	CA-CB-CG	-6.24	106.36	112.60
1	iQ	15	ILE	N-CA-C	6.24	117.48	109.30
1	1V	115	ILE	CA-C-O	6.24	126.41	119.42
1	k0	93	PRO	N-CA-C	6.24	121.43	111.26
1	kb	182	LYS	O-C-N	-6.24	115.03	122.15
1	21	77	ALA	CA-C-N	6.24	128.64	120.28
1	21	77	ALA	C-N-CA	6.24	128.64	120.28
1	le	25	LYS	CA-C-N	6.24	128.50	120.88
1	le	25	LYS	C-N-CA	6.24	128.50	120.88
1	lj	112	GLN	N-CA-C	6.24	118.88	111.33
1	lu	126	VAL	O-C-N	6.24	128.01	121.89
1	31	51	ASP	CA-C-O	6.24	127.17	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3J	229	ARG	CA-C-N	6.24	129.86	120.75
1	3J	229	ARG	C-N-CA	6.24	129.86	120.75
1	42	228	ALA	O-C-N	-6.24	116.12	123.11
1	4g	24	VAL	N-CA-C	6.24	116.99	110.62
1	4F	97	ARG	CA-C-N	6.24	129.07	120.39
1	4F	97	ARG	C-N-CA	6.24	129.07	120.39
1	4R	121	ASN	CA-CB-CG	6.24	118.84	112.60
1	4X	12	HIS	CA-C-O	-6.24	114.17	121.16
1	5e	113	GLU	N-CA-CB	6.24	119.40	110.16
1	5R	6	LEU	N-CA-C	6.24	118.08	111.28
1	6h	185	MET	CA-C-N	6.24	128.65	120.28
1	6h	185	MET	C-N-CA	6.24	128.65	120.28
1	6Q	159	GLU	CB-CA-C	-6.24	102.90	110.08
1	6X	163	ASP	CA-CB-CG	6.24	118.84	112.60
1	7G	97	ARG	CA-C-N	6.24	129.14	120.65
1	7G	97	ARG	C-N-CA	6.24	129.14	120.65
1	8z	167	ARG	NE-CZ-NH2	6.24	124.82	119.20
1	8C	40	PHE	N-CA-C	6.24	118.08	111.28
1	9k	136	LEU	CA-C-O	6.24	127.33	120.90
1	9r	189	LEU	CA-C-N	6.24	128.64	120.28
1	9r	189	LEU	C-N-CA	6.24	128.64	120.28
1	9R	201	ILE	CA-C-N	6.24	128.64	120.28
1	9R	201	ILE	C-N-CA	6.24	128.64	120.28
1	a7	35	GLU	N-CA-CB	-6.24	101.25	110.49
1	aT	54	THR	CA-C-O	6.24	127.17	120.55
1	15	9	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	b4	79	GLU	N-CA-C	6.24	118.08	111.28
1	bA	178	SER	N-CA-C	6.24	119.30	110.50
1	bB	230	VAL	O-C-N	-6.24	116.66	122.71
1	bQ	21	ASN	CA-CB-CG	6.24	118.84	112.60
1	cJ	203	LYS	CA-C-N	6.24	128.64	120.28
1	cJ	203	LYS	C-N-CA	6.24	128.64	120.28
1	1i	124	ILE	O-C-N	-6.24	113.98	121.10
1	d8	78	ALA	CA-C-N	6.24	128.65	120.28
1	d8	78	ALA	C-N-CA	6.24	128.65	120.28
1	dr	5	ASN	CA-CB-CG	6.24	118.84	112.60
1	dG	159	GLU	CB-CA-C	6.24	119.42	109.62
1	e3	96	MET	N-CA-C	6.24	124.09	110.80
1	ec	64	ALA	O-C-N	-6.24	115.50	122.12
1	ei	147	PRO	CB-CA-C	6.24	121.86	111.56
1	em	181	VAL	N-CA-C	6.24	116.41	110.42
1	eN	75	GLU	CA-C-N	6.24	128.55	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eN	75	GLU	C-N-CA	6.24	128.55	120.44
1	eN	78	ALA	N-CA-C	-6.24	104.39	111.07
1	eQ	87	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	fg	140	LYS	N-CA-C	6.24	118.08	111.28
1	fn	121	ASN	CA-CB-CG	-6.24	106.36	112.60
1	fN	96	MET	N-CA-C	6.24	118.16	111.36
1	J	18	ARG	O-C-N	-6.24	115.50	122.12
1	J	78	ALA	N-CA-C	6.24	117.75	111.07
1	ga	205	LEU	CA-C-N	6.24	131.67	121.87
1	ga	205	LEU	C-N-CA	6.24	131.67	121.87
1	1C	161	PHE	CA-CB-CG	6.24	120.04	113.80
1	gq	224	PRO	O-C-N	-6.24	114.22	122.64
1	gG	87	HIS	CB-CG-CD2	-6.24	123.09	131.20
1	gO	92	GLU	CA-C-N	6.24	126.61	119.93
1	gO	92	GLU	C-N-CA	6.24	126.61	119.93
1	gW	111	LEU	CA-C-N	6.24	129.15	120.29
1	gW	111	LEU	C-N-CA	6.24	129.15	120.29
1	gX	89	GLY	CA-C-N	6.24	127.64	119.84
1	gX	89	GLY	C-N-CA	6.24	127.64	119.84
1	gX	172	LEU	CA-C-O	6.24	127.17	120.55
1	h3	162	ARG	CA-C-N	6.24	129.27	120.28
1	h3	162	ARG	C-N-CA	6.24	129.27	120.28
1	hp	120	HIS	CA-CB-CG	6.24	120.04	113.80
1	ht	63	GLN	N-CA-C	6.24	118.08	111.28
1	hM	164	TYR	CA-C-N	6.24	129.28	120.42
1	hM	164	TYR	C-N-CA	6.24	129.28	120.42
1	hN	156	GLY	N-CA-C	6.24	125.07	112.34
1	hT	1	PRO	CB-CA-C	6.24	121.96	110.10
1	i1	162	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	io	116	GLY	CA-C-O	-6.24	114.32	120.75
1	is	21	ASN	CA-C-O	6.24	127.37	120.63
1	iG	83	LEU	CA-C-O	6.24	127.16	120.55
1	iH	97	ARG	O-C-N	-6.24	116.74	123.42
1	iI	83	LEU	CA-C-O	6.24	127.15	119.97
1	iK	217	ALA	O-C-N	-6.24	115.95	122.94
1	iM	54	THR	N-CA-C	6.24	118.08	111.28
1	iT	152	ASP	CA-C-O	6.24	127.31	119.95
1	jb	24	VAL	CA-CB-CG2	-6.24	99.79	110.40
1	ji	156	GLY	O-C-N	-6.24	115.53	121.77
1	jH	62	HIS	CB-CG-CD2	-6.24	123.09	131.20
1	jI	187	GLU	N-CA-C	6.24	119.01	111.40
1	jR	35	GLU	N-CA-CB	6.24	119.83	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jX	151	LEU	CA-C-O	6.24	126.26	119.15
1	k2	63	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	k7	12	HIS	CA-CB-CG	-6.24	107.56	113.80
1	kx	43	LEU	CA-C-O	6.24	127.15	119.97
1	23	173	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	kX	169	TYR	CG-CD1-CE1	-6.24	111.84	121.20
1	ld	102	SER	O-C-N	-6.24	115.51	122.12
1	ly	79	GLU	N-CA-C	6.24	118.89	111.71
1	lC	91	ILE	CB-CA-C	6.24	120.63	111.33
1	lN	95	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	lO	118	MET	CA-C-O	-6.24	113.93	120.55
1	2j	47	ALA	N-CA-C	6.24	119.99	109.76
1	2J	178	SER	CA-C-N	6.24	128.64	120.28
1	2J	178	SER	C-N-CA	6.24	128.64	120.28
1	2K	100	ARG	N-CA-C	-6.24	101.22	110.46
1	36	11	VAL	CA-CB-CG1	6.24	121.01	110.40
1	3h	85	PRO	CA-C-N	6.24	133.20	121.97
1	3h	85	PRO	C-N-CA	6.24	133.20	121.97
1	3j	183	ASN	CA-C-N	6.24	128.64	120.28
1	3j	183	ASN	C-N-CA	6.24	128.64	120.28
1	3k	186	THR	O-C-N	-6.24	115.50	122.12
1	3Z	81	ASP	CA-CB-CG	6.24	118.84	112.60
1	47	2	ILE	N-CA-CB	-6.24	101.96	112.44
1	4i	213	GLU	CA-C-O	6.24	126.65	119.35
1	4k	214	MET	CG-SD-CE	-6.24	87.17	100.90
1	4y	127	GLY	CA-C-N	6.24	129.79	120.31
1	4y	127	GLY	C-N-CA	6.24	129.79	120.31
1	4M	134	ILE	CA-C-N	6.24	129.01	120.46
1	4M	134	ILE	C-N-CA	6.24	129.01	120.46
1	4Z	110	THR	CA-C-N	6.24	128.64	120.28
1	4Z	110	THR	C-N-CA	6.24	128.64	120.28
1	5c	12	HIS	CA-CB-CG	6.24	120.04	113.80
1	5u	103	ASP	CA-C-O	-6.24	111.75	119.18
1	5x	12	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	5x	134	ILE	CA-C-N	6.24	129.01	120.46
1	5x	134	ILE	C-N-CA	6.24	129.01	120.46
1	5z	132	ARG	NE-CZ-NH2	6.24	124.82	119.20
1	5F	62	HIS	CB-CG-CD2	-6.24	123.09	131.20
1	5F	141	ILE	O-C-N	6.24	128.03	121.91
1	62	95	GLN	CA-C-N	6.24	129.57	120.71
1	62	95	GLN	C-N-CA	6.24	129.57	120.71
1	6u	76	GLU	CA-C-N	6.24	128.55	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6u	76	GLU	C-N-CA	6.24	128.55	120.44
1	6G	26	VAL	O-C-N	-6.24	115.26	121.94
1	6R	44	SER	N-CA-CB	6.24	119.91	110.30
1	6R	93	PRO	N-CA-C	6.24	125.33	112.47
1	6X	7	GLN	CA-C-N	6.24	130.38	122.83
1	6X	7	GLN	C-N-CA	6.24	130.38	122.83
1	73	195	ASN	CA-C-O	-6.24	113.90	120.70
1	7l	10	MET	N-CA-CB	6.24	121.04	110.49
1	7s	11	VAL	O-C-N	-6.24	114.73	122.97
1	8R	133	TRP	CA-C-N	6.24	128.42	120.56
1	8R	133	TRP	C-N-CA	6.24	128.42	120.56
1	8W	67	GLN	O-C-N	-6.24	115.51	122.12
1	91	35	GLU	N-CA-C	6.24	118.89	111.71
1	9c	143	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	9i	171	THR	CB-CA-C	-6.24	100.83	110.81
1	9m	183	ASN	O-C-N	-6.24	114.59	122.27
1	9u	87	HIS	CB-CG-CD2	-6.24	123.09	131.20
1	aG	221	VAL	O-C-N	-6.24	115.84	122.83
1	b1	98	GLU	N-CA-CB	6.24	119.56	110.32
1	bk	26	VAL	N-CA-C	6.24	116.99	110.62
1	bp	84	HIS	CA-C-N	6.24	125.80	119.19
1	bp	84	HIS	C-N-CA	6.24	125.80	119.19
1	bA	102	SER	CA-C-N	6.24	129.15	120.29
1	bA	102	SER	C-N-CA	6.24	129.15	120.29
1	bQ	132	ARG	N-CA-CB	6.24	119.06	110.01
1	c4	162	ARG	NE-CZ-NH2	-6.24	113.58	119.20
1	c8	112	GLN	N-CA-C	6.24	118.88	111.33
1	1e	26	VAL	CA-C-O	-6.24	114.23	120.85
1	cI	118	MET	CA-C-N	6.24	128.64	120.28
1	cI	118	MET	C-N-CA	6.24	128.64	120.28
1	cS	114	GLN	CA-C-N	6.24	129.01	120.46
1	cS	114	GLN	C-N-CA	6.24	129.01	120.46
1	cX	229	ARG	NH1-CZ-NH2	6.24	127.41	119.30
1	d5	51	ASP	CA-CB-CG	-6.24	106.36	112.60
1	d8	199	LYS	CA-C-N	6.24	128.93	120.38
1	d8	199	LYS	C-N-CA	6.24	128.93	120.38
1	dy	3	VAL	CA-C-O	-6.24	113.93	121.04
1	dz	221	VAL	CA-C-N	6.24	127.24	120.44
1	dz	221	VAL	C-N-CA	6.24	127.24	120.44
1	dR	96	MET	CA-C-N	6.24	131.42	120.87
1	dR	96	MET	C-N-CA	6.24	131.42	120.87
1	1n	73	ILE	CA-C-O	-6.24	114.56	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dU	44	SER	N-CA-C	6.24	120.75	113.20
1	dY	20	LEU	CA-C-N	6.24	128.64	120.28
1	dY	20	LEU	C-N-CA	6.24	128.64	120.28
1	eq	150	ILE	CA-C-N	6.24	128.64	120.28
1	eq	150	ILE	C-N-CA	6.24	128.64	120.28
1	eB	3	VAL	O-C-N	-6.24	116.11	123.04
1	1s	135	ILE	CA-C-N	6.24	128.64	120.28
1	1s	135	ILE	C-N-CA	6.24	128.64	120.28
1	f6	167	ARG	CA-C-N	6.24	128.55	120.44
1	f6	167	ARG	C-N-CA	6.24	128.55	120.44
1	fb	203	LYS	CA-C-N	6.24	128.55	120.44
1	fb	203	LYS	C-N-CA	6.24	128.55	120.44
1	ff	69	LEU	CA-C-N	6.24	128.64	120.28
1	ff	69	LEU	C-N-CA	6.24	128.64	120.28
1	1w	70	LYS	O-C-N	-6.24	113.97	122.33
1	fo	184	TRP	N-CA-C	6.24	118.89	111.71
1	fw	182	LYS	N-CA-C	6.24	118.89	111.71
1	fA	165	VAL	CA-C-N	6.24	129.46	120.79
1	fA	165	VAL	C-N-CA	6.24	129.46	120.79
1	fU	192	GLN	N-CA-C	6.24	118.16	111.36
1	g6	173	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	H	186	THR	N-CA-C	6.24	118.60	111.11
1	9	212	GLU	N-CA-C	6.24	118.08	111.28
1	g8	126	VAL	N-CA-C	6.24	116.98	110.62
1	gw	62	HIS	N-CA-C	6.24	120.25	111.52
1	gH	83	LEU	CA-C-N	6.24	131.90	122.42
1	gH	83	LEU	C-N-CA	6.24	131.90	122.42
1	gT	201	ILE	O-C-N	-6.24	115.41	121.83
1	h5	132	ARG	O-C-N	-6.24	115.51	122.12
1	1H	108	THR	CA-CB-OG1	6.24	118.96	109.60
1	hM	82	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	ia	144	MET	CB-CA-C	6.24	121.15	110.79
1	ii	30	LYS	CG-CD-CE	6.24	125.65	111.30
1	iH	104	ILE	O-C-N	-6.24	115.80	121.91
1	jt	2	ILE	O-C-N	-6.24	115.84	122.95
1	jw	212	GLU	N-CA-C	6.24	117.74	111.07
1	jI	14	ALA	CA-C-N	6.24	128.93	120.63
1	jI	14	ALA	C-N-CA	6.24	128.93	120.63
1	jL	24	VAL	N-CA-CB	6.24	117.85	110.55
1	jQ	37	ILE	CA-C-N	6.24	125.98	119.05
1	jQ	37	ILE	C-N-CA	6.24	125.98	119.05
1	kq	152	ASP	O-C-N	-6.24	114.68	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kQ	203	LYS	CA-C-N	6.24	128.64	120.28
1	kQ	203	LYS	C-N-CA	6.24	128.64	120.28
1	26	4	GLN	N-CA-CB	-6.24	101.06	110.73
1	le	176	GLN	CA-C-N	6.24	129.62	120.82
1	le	176	GLN	C-N-CA	6.24	129.62	120.82
1	lq	129	ILE	O-C-N	-6.24	115.80	121.91
1	lE	104	ILE	N-CA-C	-6.24	104.26	110.62
1	2d	182	LYS	N-CA-C	6.24	118.16	111.36
1	2y	114	GLN	CA-C-N	6.24	128.42	120.56
1	2y	114	GLN	C-N-CA	6.24	128.42	120.56
1	2C	228	ALA	CA-C-N	6.24	133.45	121.54
1	2C	228	ALA	C-N-CA	6.24	133.45	121.54
1	2E	140	LYS	CB-CA-C	6.24	120.67	110.88
1	2R	200	THR	CA-C-N	6.24	129.01	120.46
1	2R	200	THR	C-N-CA	6.24	129.01	120.46
1	3b	120	HIS	O-C-N	-6.24	115.38	122.68
1	3e	195	ASN	CA-C-O	-6.24	114.47	119.71
1	3o	228	ALA	O-C-N	-6.24	115.92	123.16
1	3X	36	VAL	N-CA-C	-6.24	104.20	111.00
1	3Y	84	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	4j	226	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	4l	57	ASN	CA-C-N	6.24	129.26	120.28
1	4l	57	ASN	C-N-CA	6.24	129.26	120.28
1	4u	208	ALA	CA-C-N	6.24	130.73	120.94
1	4u	208	ALA	C-N-CA	6.24	130.73	120.94
1	4v	144	MET	CA-C-O	6.24	127.03	120.42
1	53	82	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	5q	207	PRO	N-CA-C	6.24	121.76	113.40
1	5y	3	VAL	CA-CB-CG1	6.24	121.00	110.40
1	5L	221	VAL	CA-C-N	6.24	130.46	121.54
1	5L	221	VAL	C-N-CA	6.24	130.46	121.54
1	5N	80	TRP	CB-CA-C	6.24	121.14	110.79
1	5V	18	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	69	33	SER	CA-C-O	-6.24	114.33	120.26
1	6g	35	GLU	CA-C-N	6.24	129.00	120.46
1	6g	35	GLU	C-N-CA	6.24	129.00	120.46
1	6B	4	GLN	CA-C-N	6.24	130.73	120.94
1	6B	4	GLN	C-N-CA	6.24	130.73	120.94
1	6E	41	SER	CA-C-N	6.24	128.55	120.44
1	6E	41	SER	C-N-CA	6.24	128.55	120.44
1	6I	183	ASN	OD1-CG-ND2	-6.24	116.36	122.60
1	7w	55	MET	O-C-N	-6.24	115.54	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	87	226	HIS	CA-C-N	6.24	130.73	120.94
1	87	226	HIS	C-N-CA	6.24	130.73	120.94
1	8s	7	GLN	O-C-N	-6.24	115.10	122.96
1	8t	112	GLN	N-CA-C	6.24	118.88	111.71
1	8L	129	ILE	CA-C-N	6.24	129.15	120.29
1	8L	129	ILE	C-N-CA	6.24	129.15	120.29
1	8Q	14	ALA	N-CA-C	6.24	118.83	110.35
1	9E	90	PRO	CA-C-O	-6.24	114.31	121.36
1	9Q	33	SER	N-CA-C	-6.24	98.82	108.55
1	a5	209	ALA	N-CA-C	6.24	118.35	110.24
1	ad	184	TRP	O-C-N	-6.24	115.64	122.07
1	ay	105	ALA	N-CA-CB	-6.24	99.47	110.39
1	aK	134	ILE	CA-C-N	6.24	129.01	120.46
1	aK	134	ILE	C-N-CA	6.24	129.01	120.46
1	aQ	65	ALA	CA-C-O	6.24	127.03	120.42
1	b6	124	ILE	N-CA-CB	6.24	119.94	111.21
1	b7	152	ASP	CA-C-O	6.24	126.74	119.32
1	16	219	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	17	144	MET	CG-SD-CE	-6.24	87.17	100.90
1	bw	68	MET	CA-C-O	6.24	127.16	120.55
1	bB	181	VAL	O-C-N	-6.24	115.41	121.90
1	bL	139	ASN	N-CA-CB	6.24	119.29	110.12
1	bY	150	ILE	O-C-N	-6.24	115.95	122.25
1	1e	159	GLU	CA-C-N	6.24	126.60	119.92
1	1e	159	GLU	C-N-CA	6.24	126.60	119.92
1	dt	33	SER	CA-C-N	6.24	127.64	119.84
1	dt	33	SER	C-N-CA	6.24	127.64	119.84
1	dv	106	GLY	CA-C-O	-6.24	112.58	119.88
1	dR	190	LEU	N-CA-C	6.24	118.88	111.33
1	1o	171	THR	N-CA-CB	6.24	119.12	110.07
1	1q	75	GLU	CA-C-N	6.24	129.15	120.29
1	1q	75	GLU	C-N-CA	6.24	129.15	120.29
1	ex	166	ASP	N-CA-C	6.24	117.75	111.07
1	eK	69	LEU	CA-C-N	6.24	128.96	120.54
1	eK	69	LEU	C-N-CA	6.24	128.96	120.54
1	eK	177	ALA	N-CA-C	6.24	124.09	110.80
1	eM	29	GLU	CA-C-O	6.24	127.37	120.82
1	eM	91	ILE	O-C-N	-6.24	116.31	122.67
1	1t	195	ASN	CB-CA-C	6.24	119.31	109.27
1	fm	166	ASP	CA-CB-CG	6.24	118.84	112.60
1	fq	152	ASP	CA-CB-CG	6.24	118.84	112.60
1	fK	166	ASP	CA-C-N	6.24	128.55	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fK	166	ASP	C-N-CA	6.24	128.55	120.44
1	fM	48	THR	CA-C-N	6.24	126.43	119.32
1	fM	48	THR	C-N-CA	6.24	126.43	119.32
1	fN	80	TRP	CB-CG-CD1	6.24	136.26	126.90
1	fR	136	LEU	CB-CA-C	6.24	120.79	110.81
1	fV	143	ARG	CA-C-N	6.24	128.64	120.28
1	fV	143	ARG	C-N-CA	6.24	128.64	120.28
1	g5	159	GLU	O-C-N	-6.24	117.72	121.71
1	f	66	MET	N-CA-C	6.24	118.08	111.28
1	i	143	ARG	CA-C-N	6.24	128.64	120.28
1	i	143	ARG	C-N-CA	6.24	128.64	120.28
1	k	90	PRO	N-CA-CB	6.24	108.56	103.32
1	n	226	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	t	168	PHE	N-CA-C	6.24	117.75	111.07
1	F	129	ILE	O-C-N	6.24	128.70	121.96
1	7	51	ASP	N-CA-C	6.24	117.75	111.07
1	g8	17	PRO	N-CA-CB	6.24	110.13	103.52
1	hg	37	ILE	CA-C-O	-6.24	114.51	118.69
1	hM	148	THR	CA-CB-OG1	6.24	118.95	109.60
1	iP	117	TRP	CB-CG-CD1	-6.24	117.54	126.90
1	ji	12	HIS	CA-CB-CG	6.24	120.04	113.80
1	1Y	121	ASN	CA-CB-CG	-6.24	106.36	112.60
1	kO	132	ARG	NE-CZ-NH2	6.24	124.81	119.20
1	kP	19	THR	CA-C-O	6.24	127.12	120.70
1	lg	72	THR	O-C-N	-6.24	115.51	122.12
1	lj	19	THR	CA-C-O	6.24	127.16	120.55
1	lz	13	GLN	CA-C-O	-6.24	114.59	121.33
1	lz	100	ARG	CA-C-O	-6.24	114.77	121.94
1	2G	52	LEU	CA-C-N	6.24	128.55	120.44
1	2G	52	LEU	C-N-CA	6.24	128.55	120.44
1	34	54	THR	CA-C-N	6.24	128.64	120.28
1	34	54	THR	C-N-CA	6.24	128.64	120.28
1	3P	84	HIS	CB-CA-C	-6.24	102.98	110.15
1	4u	69	LEU	CA-C-N	6.24	128.93	120.38
1	4u	69	LEU	C-N-CA	6.24	128.93	120.38
1	4C	99	PRO	CA-C-O	-6.24	114.56	121.23
1	4P	76	GLU	N-CA-C	6.24	119.06	111.82
1	5R	78	ALA	CB-CA-C	-6.24	100.25	110.85
1	5X	87	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	62	184	TRP	CB-CA-C	6.24	120.67	110.88
1	6c	112	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	6f	73	ILE	N-CA-CB	6.24	119.94	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6w	16	SER	N-CA-C	6.24	117.56	109.64
1	6K	187	GLU	N-CA-C	6.24	118.08	111.28
1	79	139	ASN	O-C-N	-6.24	115.51	122.12
1	82	95	GLN	N-CA-CB	-6.24	101.44	110.36
1	8F	167	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	8U	82	ARG	NE-CZ-NH1	-6.24	115.26	121.50
1	92	51	ASP	CA-C-N	6.24	128.64	120.28
1	92	51	ASP	C-N-CA	6.24	128.64	120.28
1	9b	68	MET	N-CA-CB	6.24	119.05	110.01
1	Y	146	SER	N-CA-C	6.24	118.46	109.48
1	a3	226	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	aX	138	LEU	CA-C-O	6.24	127.16	120.55
1	15	223	GLY	CA-C-N	6.24	126.26	119.90
1	15	223	GLY	C-N-CA	6.24	126.26	119.90
1	bi	121	ASN	O-C-N	-6.24	115.39	121.94
1	br	199	LYS	O-C-N	6.24	128.49	122.07
1	cn	185	MET	N-CA-C	6.24	118.88	111.33
1	cv	181	VAL	N-CA-C	6.24	116.98	110.62
1	d3	115	ILE	CA-C-N	6.24	126.90	119.98
1	d3	115	ILE	C-N-CA	6.24	126.90	119.98
1	dl	100	ARG	NE-CZ-NH2	-6.24	113.59	119.20
1	dt	13	GLN	O-C-N	-6.24	116.03	123.27
1	du	53	ASN	N-CA-CB	6.24	119.05	110.01
1	e5	33	SER	CA-C-O	-6.24	114.76	120.50
1	ea	122	PRO	N-CA-CB	6.24	109.46	102.60
1	em	58	THR	N-CA-C	6.24	117.74	111.07
1	en	117	TRP	CZ3-CH2-CZ2	-6.24	113.39	121.50
1	en	128	GLU	N-CA-C	6.24	118.08	111.28
1	1s	203	LYS	CA-C-N	6.24	128.55	120.44
1	1s	203	LYS	C-N-CA	6.24	128.55	120.44
1	eP	221	VAL	N-CA-CB	6.24	118.28	110.05
1	fw	224	PRO	N-CA-C	6.24	125.32	112.47
1	1z	219	GLN	CA-C-O	-6.24	114.29	121.15
1	j	114	GLN	CA-C-N	6.24	128.65	120.60
1	j	114	GLN	C-N-CA	6.24	128.65	120.60
1	H	190	LEU	CA-C-N	6.24	128.42	120.56
1	H	190	LEU	C-N-CA	6.24	128.42	120.56
1	T	104	ILE	CB-CA-C	-6.24	102.16	112.26
1	g9	115	ILE	CA-C-N	6.24	126.86	119.94
1	g9	115	ILE	C-N-CA	6.24	126.86	119.94
1	go	192	GLN	N-CA-C	6.24	120.15	112.54
1	gy	128	GLU	N-CA-C	6.24	118.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gH	115	ILE	O-C-N	-6.24	115.41	121.83
1	gN	226	HIS	CA-CB-CG	6.24	120.03	113.80
1	gO	208	ALA	CA-C-N	6.24	129.56	120.71
1	gO	208	ALA	C-N-CA	6.24	129.56	120.71
1	gW	78	ALA	CA-C-O	6.24	127.03	120.42
1	ha	38	PRO	N-CA-CB	6.24	109.80	103.25
1	hR	179	GLN	O-C-N	-6.24	115.51	122.12
1	i3	126	VAL	CA-C-N	6.24	126.86	119.94
1	i3	126	VAL	C-N-CA	6.24	126.86	119.94
1	1N	162	ARG	N-CA-C	6.24	118.08	111.28
1	1Q	87	HIS	N-CA-C	6.24	119.78	111.30
1	iQ	152	ASP	CA-C-O	6.24	127.31	119.95
1	1S	162	ARG	CA-C-N	6.24	129.14	120.29
1	1S	162	ARG	C-N-CA	6.24	129.14	120.29
1	iS	91	ILE	CB-CA-C	6.24	121.52	111.29
1	iU	55	MET	CB-CA-C	-6.24	100.44	110.79
1	jK	226	HIS	CA-CB-CG	6.24	120.03	113.80
1	jX	173	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	k6	18	ARG	CA-C-N	6.24	129.14	120.29
1	k6	18	ARG	C-N-CA	6.24	129.14	120.29
1	ka	115	ILE	CA-C-N	6.24	126.86	119.94
1	ka	115	ILE	C-N-CA	6.24	126.86	119.94
1	kl	105	ALA	CA-C-O	6.24	127.20	119.78
1	kz	5	ASN	CA-C-O	6.24	126.84	119.48
1	kC	120	HIS	ND1-CE1-NE2	6.24	114.64	108.40
1	kH	165	VAL	N-CA-C	6.24	116.98	110.62
1	kK	11	VAL	O-C-N	-6.24	116.14	123.00
1	kL	71	GLU	CA-C-O	6.24	127.16	120.55
1	kM	115	ILE	CA-C-N	6.24	127.03	119.99
1	kM	115	ILE	C-N-CA	6.24	127.03	119.99
1	kU	50	GLN	CA-C-N	6.24	129.14	120.29
1	kU	50	GLN	C-N-CA	6.24	129.14	120.29
1	l4	95	GLN	CA-C-O	6.24	128.21	121.16
1	l8	185	MET	N-CA-C	6.24	118.08	111.28
1	lw	87	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	2a	76	GLU	O-C-N	-6.24	113.92	122.46
1	lO	33	SER	N-CA-C	-6.24	102.52	108.13
1	2d	21	ASN	OD1-CG-ND2	-6.24	116.36	122.60
1	2t	87	HIS	CE1-NE2-CD2	-6.24	102.76	109.00
1	2E	10	MET	N-CA-C	6.24	118.60	110.43
1	2M	163	ASP	N-CA-C	-6.24	103.06	112.04
1	2U	50	GLN	CA-C-N	6.24	128.92	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2U	50	GLN	C-N-CA	6.24	128.92	120.44
1	38	93	PRO	N-CA-CB	6.24	108.86	103.31
1	39	210	THR	CA-CB-OG1	6.24	118.95	109.60
1	3b	177	ALA	CA-C-N	6.24	129.72	120.87
1	3b	177	ALA	C-N-CA	6.24	129.72	120.87
1	3d	26	VAL	N-CA-CB	6.24	118.55	110.57
1	3g	23	TRP	O-C-N	-6.24	115.65	122.07
1	3v	193	ASN	O-C-N	-6.24	113.84	122.20
1	3O	142	VAL	N-CA-C	6.24	118.84	111.05
1	42	70	LYS	CA-C-N	6.24	128.55	120.44
1	42	70	LYS	C-N-CA	6.24	128.55	120.44
1	4d	76	GLU	N-CA-C	6.24	117.74	111.07
1	4i	18	ARG	CA-C-N	6.24	128.96	120.54
1	4i	18	ARG	C-N-CA	6.24	128.96	120.54
1	4k	64	ALA	N-CA-C	6.24	118.88	111.33
1	4q	117	TRP	CB-CG-CD2	-6.24	118.07	126.80
1	4r	195	ASN	CA-C-N	6.24	127.64	119.84
1	4r	195	ASN	C-N-CA	6.24	127.64	119.84
1	4t	226	HIS	CG-CD2-NE2	6.24	113.44	107.20
1	4u	117	TRP	CE3-CZ3-CH2	-6.24	112.99	121.10
1	4O	40	PHE	O-C-N	-6.24	115.51	122.12
1	4U	182	LYS	CA-C-N	6.24	128.96	120.54
1	4U	182	LYS	C-N-CA	6.24	128.96	120.54
1	5h	38	PRO	CA-C-N	6.24	128.64	120.28
1	5h	38	PRO	C-N-CA	6.24	128.64	120.28
1	5o	195	ASN	CB-CA-C	6.24	119.21	109.42
1	5H	62	HIS	CB-CG-CD2	6.24	139.31	131.20
1	5X	219	GLN	CA-C-N	6.24	128.20	120.34
1	5X	219	GLN	C-N-CA	6.24	128.20	120.34
1	62	112	GLN	N-CA-C	6.24	118.08	111.28
1	6e	13	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	6l	151	LEU	N-CA-C	6.24	118.08	111.28
1	6B	68	MET	CG-SD-CE	-6.24	87.18	100.90
1	72	179	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	7k	82	ARG	NH1-CZ-NH2	-6.24	111.19	119.30
1	7x	163	ASP	CA-CB-CG	-6.24	106.36	112.60
1	7B	182	LYS	CA-C-N	6.24	128.63	120.28
1	7B	182	LYS	C-N-CA	6.24	128.63	120.28
1	7J	166	ASP	CA-C-N	6.24	128.55	120.44
1	7J	166	ASP	C-N-CA	6.24	128.55	120.44
1	88	126	VAL	CA-C-N	6.24	126.86	120.00
1	88	126	VAL	C-N-CA	6.24	126.86	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	162	ARG	N-CA-C	6.24	119.05	111.82
1	8c	195	ASN	CB-CG-ND2	6.24	125.75	116.40
1	8d	110	THR	O-C-N	-6.24	116.04	123.27
1	8n	167	ARG	CA-C-N	6.24	128.96	120.54
1	8n	167	ARG	C-N-CA	6.24	128.96	120.54
1	8w	53	ASN	OD1-CG-ND2	-6.24	116.36	122.60
1	8X	95	GLN	O-C-N	-6.24	115.29	123.21
1	9w	40	PHE	CA-C-N	6.24	128.63	120.28
1	9w	40	PHE	C-N-CA	6.24	128.63	120.28
1	9F	110	THR	CA-C-N	6.24	128.63	120.28
1	9F	110	THR	C-N-CA	6.24	128.63	120.28
1	9G	96	MET	N-CA-C	6.24	118.60	110.43
1	9O	155	GLN	CA-C-N	6.24	131.66	121.87
1	9O	155	GLN	C-N-CA	6.24	131.66	121.87
1	as	34	PRO	N-CA-C	6.24	125.31	112.47
1	aA	95	GLN	CA-C-O	-6.24	114.17	121.46
1	b6	192	GLN	O-C-N	-6.24	114.60	122.27
1	bd	71	GLU	N-CA-C	6.24	118.08	111.28
1	bo	167	ARG	NE-CZ-NH1	6.24	127.74	121.50
1	bB	126	VAL	N-CA-C	6.24	118.84	111.05
1	bU	152	ASP	CA-CB-CG	6.24	118.83	112.60
1	cG	53	ASN	O-C-N	-6.24	115.04	122.15
1	cT	20	LEU	N-CA-C	6.24	118.08	111.28
1	cU	195	ASN	CA-CB-CG	-6.24	106.36	112.60
1	du	29	GLU	O-C-N	6.24	128.49	122.07
1	dx	142	VAL	N-CA-C	6.24	116.41	110.42
1	1m	141	ILE	CA-C-N	6.24	128.33	120.72
1	1m	141	ILE	C-N-CA	6.24	128.33	120.72
1	dU	20	LEU	CA-C-N	6.24	128.55	120.44
1	dU	20	LEU	C-N-CA	6.24	128.55	120.44
1	e1	80	TRP	CB-CA-C	6.24	120.67	110.88
1	e4	164	TYR	CB-CA-C	6.24	120.67	110.88
1	e9	132	ARG	NE-CZ-NH2	6.24	124.81	119.20
1	eb	176	GLN	OE1-CD-NE2	-6.24	116.36	122.60
1	ef	166	ASP	N-CA-C	6.24	117.74	111.07
1	eA	106	GLY	O-C-N	-6.24	115.14	122.50
1	eB	2	ILE	CB-CA-C	6.24	118.60	110.12
1	eI	220	GLY	O-C-N	-6.24	114.59	122.70
1	f3	135	ILE	CA-CB-CG2	6.24	121.10	110.50
1	f7	140	LYS	N-CA-CB	6.24	119.41	110.06
1	fO	82	ARG	CA-C-N	6.24	128.92	120.44
1	fO	82	ARG	C-N-CA	6.24	128.92	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g1	134	ILE	O-C-N	-6.24	115.82	121.87
1	g1	227	LYS	CA-C-N	6.24	129.56	120.71
1	g1	227	LYS	C-N-CA	6.24	129.56	120.71
1	g5	178	SER	N-CA-C	6.24	119.51	110.28
1	b	122	PRO	CA-C-N	6.24	127.63	119.84
1	b	122	PRO	C-N-CA	6.24	127.63	119.84
1	3	214	MET	CA-C-N	6.24	128.96	120.54
1	3	214	MET	C-N-CA	6.24	128.96	120.54
1	T	80	TRP	CE2-CD2-CE3	6.24	125.04	118.80
1	gI	230	VAL	O-C-N	6.23	128.43	122.20
1	gR	89	GLY	CA-C-N	6.23	127.63	119.84
1	gR	89	GLY	C-N-CA	6.23	127.63	119.84
1	h1	139	ASN	O-C-N	-6.23	115.51	122.12
1	iz	154	ARG	CA-C-N	6.23	130.22	121.24
1	iz	154	ARG	C-N-CA	6.23	130.22	121.24
1	iH	74	ASN	CA-C-N	6.23	128.54	120.44
1	iH	74	ASN	C-N-CA	6.23	128.54	120.44
1	iR	120	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	j0	154	ARG	CA-C-O	6.23	127.32	120.71
1	ju	169	TYR	N-CA-C	6.23	118.16	111.36
1	k0	186	THR	CA-CB-OG1	6.23	118.95	109.60
1	23	21	ASN	CA-CB-CG	-6.23	106.37	112.60
1	l1	130	TYR	O-C-N	-6.23	114.93	122.22
1	le	88	ALA	CA-C-N	6.23	131.66	121.87
1	le	88	ALA	C-N-CA	6.23	131.66	121.87
1	lq	155	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	lM	198	CYS	CA-C-N	6.23	128.63	120.28
1	lM	198	CYS	C-N-CA	6.23	128.63	120.28
1	2b	145	TYR	N-CA-CB	-6.23	101.43	110.47
1	2e	27	VAL	N-CA-C	6.23	117.73	110.62
1	2C	59	VAL	O-C-N	6.23	128.02	121.91
1	2J	134	ILE	CA-C-N	6.23	129.32	120.53
1	2J	134	ILE	C-N-CA	6.23	129.32	120.53
1	2W	84	HIS	CA-CB-CG	-6.23	107.57	113.80
1	3s	107	THR	O-C-N	6.23	128.49	122.07
1	3L	21	ASN	N-CA-C	6.23	117.74	111.07
1	4y	62	HIS	N-CA-C	6.23	120.27	111.92
1	4H	69	LEU	CA-C-N	6.23	128.54	120.44
1	4H	69	LEU	C-N-CA	6.23	128.54	120.44
1	5Q	70	LYS	N-CA-C	6.23	118.87	111.33
1	8o	12	HIS	CG-CD2-NE2	6.23	113.43	107.20
1	9z	100	ARG	NE-CZ-NH1	6.23	127.73	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bQ	50	GLN	N-CA-C	6.23	118.08	111.28
1	bR	51	ASP	CA-CB-CG	6.23	118.83	112.60
1	1n	87	HIS	CA-CB-CG	-6.23	107.57	113.80
1	eE	210	THR	O-C-N	-6.23	115.68	122.79
1	eG	229	ARG	NE-CZ-NH2	6.23	124.81	119.20
1	eN	24	VAL	CB-CA-C	6.23	120.56	112.14
1	fm	111	LEU	CA-C-N	6.23	128.63	120.28
1	fm	111	LEU	C-N-CA	6.23	128.63	120.28
1	k	167	ARG	CA-C-N	6.23	128.54	120.44
1	k	167	ARG	C-N-CA	6.23	128.54	120.44
1	u	84	HIS	CG-CD2-NE2	6.23	113.43	107.20
1	gn	230	VAL	N-CA-C	6.23	117.57	108.53
1	gq	12	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	gE	210	THR	CB-CA-C	6.23	120.50	109.72
1	gG	64	ALA	CA-C-N	6.23	128.63	120.28
1	gG	64	ALA	C-N-CA	6.23	128.63	120.28
1	gV	50	GLN	N-CA-C	6.23	118.07	111.28
1	h0	200	THR	N-CA-C	6.23	117.74	111.07
1	1H	97	ARG	NE-CZ-NH2	6.23	124.81	119.20
1	ha	8	GLY	CA-C-O	6.23	126.27	122.22
1	hn	195	ASN	CA-C-N	6.23	126.43	119.32
1	hn	195	ASN	C-N-CA	6.23	126.43	119.32
1	hw	48	THR	N-CA-CB	6.23	116.53	109.49
1	hF	53	ASN	OD1-CG-ND2	6.23	128.83	122.60
1	hH	98	GLU	N-CA-C	6.23	117.75	109.83
1	hL	87	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	hQ	32	PHE	CA-CB-CG	-6.23	107.57	113.80
1	hT	142	VAL	N-CA-C	6.23	116.90	110.36
1	i9	228	ALA	N-CA-C	6.23	119.03	110.24
1	il	155	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	im	156	GLY	CA-C-N	6.23	125.97	119.05
1	im	156	GLY	C-N-CA	6.23	125.97	119.05
1	in	162	ARG	CA-C-N	6.23	128.63	120.28
1	in	162	ARG	C-N-CA	6.23	128.63	120.28
1	iA	149	SER	CA-C-O	-6.23	114.18	121.16
1	iL	135	ILE	O-C-N	-6.23	115.82	121.87
1	iO	100	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	j8	137	GLY	CA-C-O	-6.23	113.42	120.09
1	jm	121	ASN	CA-CB-CG	-6.23	106.37	112.60
1	jt	227	LYS	CA-C-N	6.23	130.59	121.31
1	jt	227	LYS	C-N-CA	6.23	130.59	121.31
1	ju	149	SER	CA-C-N	6.23	129.32	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	149	SER	C-N-CA	6.23	129.32	120.53
1	jN	169	TYR	O-C-N	-6.23	115.51	122.12
1	26	139	ASN	N-CA-C	6.23	118.87	111.33
1	26	219	GLN	N-CA-CB	-6.23	100.84	110.56
1	lb	14	ALA	CA-C-N	6.23	129.57	120.91
1	lb	14	ALA	C-N-CA	6.23	129.57	120.91
1	29	170	LYS	CA-C-N	6.23	128.63	120.28
1	29	170	LYS	C-N-CA	6.23	128.63	120.28
1	2b	27	VAL	N-CA-C	6.23	116.98	110.62
1	2f	82	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	2H	105	ALA	CA-C-O	6.23	127.15	119.05
1	2Z	204	ALA	N-CA-C	6.23	117.74	111.07
1	35	133	TRP	CB-CG-CD2	-6.23	118.07	126.80
1	3e	180	GLU	N-CA-CB	6.23	119.28	110.12
1	3w	114	GLN	CA-C-O	6.23	126.89	119.60
1	3y	199	LYS	N-CA-C	6.23	118.59	111.11
1	3U	191	VAL	N-CA-C	6.23	116.98	110.62
1	3Y	5	ASN	CA-C-N	6.23	133.45	121.54
1	3Y	5	ASN	C-N-CA	6.23	133.45	121.54
1	47	107	THR	N-CA-C	-6.23	105.62	113.72
1	4a	173	ARG	O-C-N	-6.23	115.51	122.12
1	4m	164	TYR	O-C-N	-6.23	115.51	122.12
1	4w	14	ALA	CA-C-N	6.23	129.57	120.91
1	4w	14	ALA	C-N-CA	6.23	129.57	120.91
1	4D	7	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	4F	140	LYS	CA-C-N	6.23	128.41	120.56
1	4F	140	LYS	C-N-CA	6.23	128.41	120.56
1	4W	64	ALA	CA-C-O	6.23	127.93	121.07
1	5a	24	VAL	CA-C-O	-6.23	114.47	120.95
1	5W	219	GLN	N-CA-CB	-6.23	100.88	110.85
1	6a	12	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	6a	66	MET	CG-SD-CE	-6.23	87.19	100.90
1	6s	179	GLN	CB-CG-CD	6.23	123.19	112.60
1	6x	212	GLU	CA-C-O	6.23	127.36	120.82
1	6z	27	VAL	N-CA-C	6.23	116.98	110.62
1	79	110	THR	CA-C-N	6.23	128.92	120.38
1	79	110	THR	C-N-CA	6.23	128.92	120.38
1	7j	185	MET	N-CA-C	6.23	118.87	111.33
1	7t	168	PHE	CA-CB-CG	6.23	120.03	113.80
1	7v	25	LYS	N-CA-C	6.23	118.07	111.28
1	7x	5	ASN	CA-C-N	6.23	132.61	122.39
1	7x	5	ASN	C-N-CA	6.23	132.61	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	48	THR	O-C-N	-6.23	114.45	121.43
1	8g	150	ILE	N-CA-CB	6.23	121.31	110.65
1	8n	91	ILE	CA-CB-CG1	6.23	121.00	110.40
1	8t	154	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	8z	22	ALA	O-C-N	-6.23	114.60	122.27
1	8I	48	THR	CA-CB-OG1	6.23	118.95	109.60
1	8W	104	ILE	O-C-N	-6.23	115.78	121.89
1	8W	146	SER	N-CA-C	6.23	117.24	109.57
1	8Y	34	PRO	O-C-N	-6.23	113.89	122.24
1	99	140	LYS	CB-CA-C	-6.23	100.84	110.81
1	9D	69	LEU	CB-CA-C	6.23	120.75	110.90
1	9H	133	TRP	N-CA-CB	6.23	119.05	110.01
1	9J	221	VAL	N-CA-C	6.23	117.01	110.72
1	a4	92	GLU	CA-C-N	6.23	126.18	119.76
1	a4	92	GLU	C-N-CA	6.23	126.18	119.76
1	ai	5	ASN	CA-C-N	6.23	128.63	120.28
1	ai	5	ASN	C-N-CA	6.23	128.63	120.28
1	av	74	ASN	CA-C-N	6.23	128.54	120.44
1	av	74	ASN	C-N-CA	6.23	128.54	120.44
1	aF	76	GLU	N-CA-C	6.23	118.07	111.28
1	aT	34	PRO	CA-C-N	6.23	129.78	120.31
1	aT	34	PRO	C-N-CA	6.23	129.78	120.31
1	bQ	116	GLY	CA-C-N	6.23	128.63	120.28
1	bQ	116	GLY	C-N-CA	6.23	128.63	120.28
1	bS	104	ILE	N-CA-C	6.23	116.91	110.36
1	c2	51	ASP	CA-C-O	6.23	127.36	120.82
1	1c	99	PRO	CA-C-O	-6.23	114.26	121.86
1	cp	162	ARG	CA-C-O	6.23	127.57	120.90
1	cy	50	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	cB	169	TYR	CB-CG-CD1	-6.23	111.45	120.80
1	cF	120	HIS	CG-CD2-NE2	6.23	113.43	107.20
1	cL	41	SER	CA-C-N	6.23	128.92	120.44
1	cL	41	SER	C-N-CA	6.23	128.92	120.44
1	d3	195	ASN	CA-C-O	-6.23	113.91	120.70
1	d4	146	SER	O-C-N	-6.23	115.22	121.27
1	d7	184	TRP	CA-C-O	6.23	127.03	120.42
1	dc	131	LYS	O-C-N	-6.23	115.51	122.12
1	1k	111	LEU	O-C-N	-6.23	114.61	122.27
1	ds	162	ARG	CA-C-N	6.23	128.63	120.28
1	ds	162	ARG	C-N-CA	6.23	128.63	120.28
1	ds	191	VAL	CA-CB-CG1	6.23	121.00	110.40
1	dz	139	ASN	O-C-N	-6.23	115.61	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dP	220	GLY	O-C-N	-6.23	114.86	122.71
1	dY	4	GLN	CA-C-N	6.23	133.44	121.54
1	dY	4	GLN	C-N-CA	6.23	133.44	121.54
1	e1	45	GLU	N-CA-C	6.23	118.87	111.33
1	1o	82	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	en	135	ILE	CA-C-O	6.23	127.43	120.95
1	1r	12	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	ff	100	ARG	NE-CZ-NH2	-6.23	113.59	119.20
1	1x	135	ILE	CB-CA-C	-6.23	103.99	111.97
1	fC	32	PHE	CA-CB-CG	-6.23	107.57	113.80
1	fE	165	VAL	CA-C-N	6.23	128.54	120.44
1	fE	165	VAL	C-N-CA	6.23	128.54	120.44
1	g0	119	THR	N-CA-C	-6.23	105.71	113.38
1	1	67	GLN	OE1-CD-NE2	6.23	128.83	122.60
1	k	112	GLN	CA-C-N	6.23	129.14	120.29
1	k	112	GLN	C-N-CA	6.23	129.14	120.29
1	r	165	VAL	CA-C-N	6.23	128.54	120.44
1	r	165	VAL	C-N-CA	6.23	128.54	120.44
1	B	174	ALA	N-CA-C	6.23	119.98	112.38
1	C	60	GLY	CA-C-N	6.23	127.57	120.53
1	C	60	GLY	C-N-CA	6.23	127.57	120.53
1	O	26	VAL	CB-CA-C	-6.23	103.73	112.14
1	gh	32	PHE	CA-C-O	6.23	126.25	119.15
1	gk	133	TRP	O-C-N	-6.23	115.05	122.15
1	1D	51	ASP	CB-CA-C	-6.23	101.10	110.88
1	gG	208	ALA	N-CA-C	6.23	119.99	111.39
1	gR	164	TYR	N-CA-C	6.23	118.87	111.33
1	h6	143	ARG	N-CA-C	6.23	118.07	111.28
1	h7	139	ASN	CA-CB-CG	-6.23	106.37	112.60
1	hh	139	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	i8	226	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	1P	84	HIS	CA-CB-CG	-6.23	107.57	113.80
1	is	63	GLN	CA-C-O	6.23	127.15	120.55
1	iv	141	ILE	N-CA-C	6.23	116.34	110.30
1	iw	100	ARG	NE-CZ-NH2	6.23	124.81	119.20
1	1Q	50	GLN	O-C-N	-6.23	115.52	122.12
1	iA	160	PRO	CA-C-O	-6.23	114.45	121.43
1	iX	223	GLY	CA-C-O	6.23	128.16	121.62
1	iZ	70	LYS	N-CA-C	6.23	117.74	111.07
1	jF	92	GLU	O-C-N	-6.23	114.94	120.48
1	jJ	116	GLY	CA-C-N	6.23	128.91	120.44
1	jJ	116	GLY	C-N-CA	6.23	128.91	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jQ	179	GLN	CA-C-N	6.23	128.54	120.44
1	jQ	179	GLN	C-N-CA	6.23	128.54	120.44
1	kx	103	ASP	CA-C-N	6.23	129.00	120.46
1	kx	103	ASP	C-N-CA	6.23	129.00	120.46
1	kA	193	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	kE	178	SER	CB-CA-C	6.23	120.92	109.46
1	kK	82	ARG	N-CA-C	6.23	118.07	111.28
1	kW	21	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	lq	27	VAL	CA-C-N	6.23	128.63	120.28
1	lq	27	VAL	C-N-CA	6.23	128.63	120.28
1	lG	97	ARG	N-CA-C	6.23	118.61	108.76
1	2l	64	ALA	CA-C-N	6.23	128.63	120.28
1	2l	64	ALA	C-N-CA	6.23	128.63	120.28
1	2D	92	GLU	N-CA-C	6.23	123.58	109.81
1	2G	50	GLN	O-C-N	-6.23	114.93	122.22
1	2U	53	ASN	CA-CB-CG	-6.23	106.37	112.60
1	3b	95	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	3c	213	GLU	CA-C-N	6.23	128.91	120.44
1	3c	213	GLU	C-N-CA	6.23	128.91	120.44
1	3Y	136	LEU	O-C-N	-6.23	115.52	122.12
1	49	103	ASP	CA-C-N	6.23	128.41	120.56
1	49	103	ASP	C-N-CA	6.23	128.41	120.56
1	4l	87	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	4z	51	ASP	O-C-N	-6.23	115.65	122.07
1	4N	93	PRO	CB-CA-C	-6.23	103.65	111.56
1	4O	62	HIS	N-CA-C	6.23	119.84	111.24
1	4W	47	ALA	O-C-N	-6.23	115.29	122.89
1	53	223	GLY	CA-C-N	6.23	127.63	119.84
1	53	223	GLY	C-N-CA	6.23	127.63	119.84
1	56	86	VAL	N-CA-CB	-6.23	104.05	111.90
1	57	98	GLU	N-CA-C	6.23	118.45	109.48
1	5i	81	ASP	CA-CB-CG	-6.23	106.37	112.60
1	5x	142	VAL	N-CA-C	6.23	117.72	110.62
1	5N	156	GLY	CA-C-N	6.23	125.79	119.19
1	5N	156	GLY	C-N-CA	6.23	125.79	119.19
1	6o	213	GLU	N-CA-C	-6.23	104.41	111.14
1	6p	98	GLU	O-C-N	-6.23	115.75	121.30
1	6V	72	THR	N-CA-CB	6.23	119.28	110.12
1	76	165	VAL	CA-C-O	6.23	127.75	121.27
1	7o	130	TYR	CA-C-O	6.23	127.02	120.42
1	7I	223	GLY	O-C-N	-6.23	116.81	122.42
1	7U	12	HIS	CG-CD2-NE2	6.23	113.43	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	117	TRP	CA-C-N	6.23	129.78	120.31
1	7Y	117	TRP	C-N-CA	6.23	129.78	120.31
1	8e	184	TRP	CB-CA-C	6.23	121.13	110.79
1	8t	36	VAL	N-CA-CB	6.23	119.02	110.54
1	8z	3	VAL	N-CA-CB	6.23	118.47	110.99
1	8z	182	LYS	CA-C-N	6.23	128.54	120.44
1	8z	182	LYS	C-N-CA	6.23	128.54	120.44
1	8D	12	HIS	CA-CB-CG	6.23	120.03	113.80
1	8H	194	ALA	CA-C-N	6.23	129.34	120.49
1	8H	194	ALA	C-N-CA	6.23	129.34	120.49
1	90	103	ASP	CA-C-O	-6.23	113.95	120.55
1	95	22	ALA	CA-C-N	6.23	128.63	120.28
1	95	22	ALA	C-N-CA	6.23	128.63	120.28
1	98	89	GLY	N-CA-C	6.23	125.05	112.34
1	9q	35	GLU	N-CA-C	-6.23	105.64	113.18
1	9C	124	ILE	CA-C-N	6.23	127.63	119.84
1	9C	124	ILE	C-N-CA	6.23	127.63	119.84
1	9H	118	MET	CA-C-N	6.23	132.01	122.29
1	9H	118	MET	C-N-CA	6.23	132.01	122.29
1	9M	54	THR	CA-CB-OG1	6.23	118.95	109.60
1	Z	99	PRO	N-CA-CB	6.23	109.11	103.19
1	ab	204	ALA	O-C-N	-6.23	115.52	122.12
1	an	40	PHE	CA-CB-CG	-6.23	107.57	113.80
1	aJ	172	LEU	CA-C-O	6.23	127.13	119.97
1	aN	58	THR	CA-C-O	6.23	127.15	120.55
1	aN	188	THR	CA-C-O	-6.23	113.86	120.71
1	bh	12	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	bY	152	ASP	N-CA-C	-6.23	105.64	113.18
1	c8	98	GLU	O-C-N	-6.23	114.82	121.42
1	ce	57	ASN	CA-C-O	-6.23	112.05	119.15
1	cm	31	ALA	CA-C-O	6.23	129.74	120.83
1	cs	75	GLU	N-CA-C	6.23	118.62	111.02
1	cO	173	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	d3	110	THR	CA-CB-OG1	6.23	118.94	109.60
1	d8	111	LEU	CA-C-N	6.23	128.54	120.44
1	d8	111	LEU	C-N-CA	6.23	128.54	120.44
1	e0	74	ASN	CA-C-N	6.23	128.54	120.44
1	e0	74	ASN	C-N-CA	6.23	128.54	120.44
1	e3	2	ILE	N-CA-CB	-6.23	103.51	110.99
1	e4	185	MET	N-CA-C	6.23	117.74	111.07
1	ed	192	GLN	N-CA-C	6.23	118.77	108.99
1	em	23	TRP	CA-C-O	6.23	127.57	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eq	208	ALA	N-CA-C	-6.23	105.58	113.43
1	eS	126	VAL	O-C-N	-6.23	115.80	121.91
1	eY	211	LEU	N-CA-C	6.23	118.87	111.33
1	eZ	26	VAL	CA-C-O	-6.23	114.57	121.17
1	fa	138	LEU	CA-C-N	6.23	128.63	120.28
1	fa	138	LEU	C-N-CA	6.23	128.63	120.28
1	fo	81	ASP	CA-C-N	6.23	128.63	120.28
1	fo	81	ASP	C-N-CA	6.23	128.63	120.28
1	f	93	PRO	CA-C-O	6.23	128.40	121.36
1	E	146	SER	CA-C-O	6.23	125.62	119.51
1	P	161	PHE	CA-C-N	6.23	128.54	120.44
1	P	161	PHE	C-N-CA	6.23	128.54	120.44
1	1F	117	TRP	CB-CA-C	6.23	121.13	110.79
1	1K	155	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	hR	120	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	io	124	ILE	CA-CB-CG2	-6.23	99.91	110.50
1	jd	134	ILE	N-CA-CB	6.23	117.84	110.55
1	ju	65	ALA	O-C-N	-6.23	115.65	122.07
1	k2	117	TRP	CG-CD2-CE3	-6.23	127.67	133.90
1	k6	5	ASN	OD1-CG-ND2	-6.23	116.37	122.60
1	ko	84	HIS	N-CA-C	6.23	119.76	109.79
1	26	214	MET	CB-CA-C	-6.23	100.26	110.85
1	lh	143	ARG	CD-NE-CZ	6.23	133.12	124.40
1	lB	39	MET	CA-C-N	6.23	128.54	120.44
1	lB	39	MET	C-N-CA	6.23	128.54	120.44
1	lH	164	TYR	CA-C-N	6.23	128.41	120.56
1	lH	164	TYR	C-N-CA	6.23	128.41	120.56
1	2N	9	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	33	18	ARG	CA-C-O	-6.23	114.28	120.82
1	37	9	GLN	N-CA-CB	6.23	119.22	109.69
1	3e	171	THR	CA-C-N	6.23	128.63	120.28
1	3e	171	THR	C-N-CA	6.23	128.63	120.28
1	3i	73	ILE	O-C-N	-6.23	115.71	121.94
1	3l	63	GLN	O-C-N	-6.23	114.93	122.22
1	3m	212	GLU	CA-C-N	6.23	128.63	120.28
1	3m	212	GLU	C-N-CA	6.23	128.63	120.28
1	3w	40	PHE	CA-C-N	6.23	128.63	120.28
1	3w	40	PHE	C-N-CA	6.23	128.63	120.28
1	4M	230	VAL	CB-CA-C	-6.23	103.05	111.15
1	52	208	ALA	CA-C-N	6.23	131.28	121.56
1	52	208	ALA	C-N-CA	6.23	131.28	121.56
1	6k	126	VAL	N-CA-C	6.23	116.97	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6C	3	VAL	N-CA-CB	-6.23	102.78	111.25
1	6N	47	ALA	CA-C-O	6.23	128.15	121.55
1	6R	173	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	74	126	VAL	N-CA-C	6.23	119.77	111.17
1	86	229	ARG	CA-C-N	6.23	128.91	120.63
1	86	229	ARG	C-N-CA	6.23	128.91	120.63
1	8k	91	ILE	N-CA-CB	6.23	117.65	110.49
1	8S	58	THR	N-CA-CB	6.23	119.28	110.12
1	9A	39	MET	CA-C-N	6.23	128.95	120.54
1	9A	39	MET	C-N-CA	6.23	128.95	120.54
1	9C	190	LEU	CA-C-N	6.23	129.26	120.42
1	9C	190	LEU	C-N-CA	6.23	129.26	120.42
1	al	132	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	bc	33	SER	O-C-N	-6.23	116.25	121.54
1	bV	134	ILE	N-CA-CB	6.23	117.84	110.55
1	cN	52	LEU	CA-C-O	6.23	127.02	120.42
1	d5	98	GLU	CA-C-O	-6.23	113.69	120.17
1	1k	181	VAL	O-C-N	-6.23	115.83	121.87
1	dC	3	VAL	N-CA-CB	6.23	121.21	111.99
1	dJ	56	LEU	CA-C-O	6.23	127.36	120.82
1	ed	21	ASN	CA-CB-CG	6.23	118.83	112.60
1	ee	82	ARG	CD-NE-CZ	6.23	133.12	124.40
1	1w	194	ALA	N-CA-C	6.23	118.07	110.41
1	fz	221	VAL	N-CA-C	-6.23	106.92	112.90
1	fH	160	PRO	O-C-N	-6.23	114.23	122.64
1	g5	167	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	gb	140	LYS	CA-C-N	6.23	128.99	120.46
1	gb	140	LYS	C-N-CA	6.23	128.99	120.46
1	gz	214	MET	N-CA-C	6.23	119.04	111.82
1	gA	204	ALA	CA-C-N	6.23	128.91	120.38
1	gA	204	ALA	C-N-CA	6.23	128.91	120.38
1	gW	218	CYS	O-C-N	-6.23	114.25	122.47
1	gX	62	HIS	O-C-N	-6.23	115.63	122.67
1	gY	41	SER	CB-CA-C	-6.23	101.06	110.90
1	hi	58	THR	O-C-N	-6.23	115.05	122.15
1	hi	221	VAL	CA-C-N	6.23	130.47	121.44
1	hi	221	VAL	C-N-CA	6.23	130.47	121.44
1	ht	11	VAL	O-C-N	-6.23	116.79	123.14
1	hF	37	ILE	N-CA-CB	6.23	115.31	110.45
1	ib	12	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	1P	127	GLY	O-C-N	6.23	128.23	122.19
1	iX	129	ILE	O-C-N	-6.23	115.42	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j8	107	THR	N-CA-C	6.23	118.15	111.36
1	j8	163	ASP	CA-CB-CG	6.23	118.83	112.60
1	1X	185	MET	N-CA-C	6.23	118.87	111.71
1	k9	12	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	ki	142	VAL	N-CA-C	6.23	117.72	110.62
1	kR	208	ALA	N-CA-C	6.23	120.24	111.52
1	25	167	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	kZ	161	PHE	CA-CB-CG	6.23	120.03	113.80
1	l6	189	LEU	N-CA-C	6.23	121.54	113.88
1	lz	39	MET	CA-C-N	6.23	128.62	120.28
1	lz	39	MET	C-N-CA	6.23	128.62	120.28
1	lz	204	ALA	N-CA-C	6.23	117.87	111.14
1	2v	84	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	2G	228	ALA	CA-C-N	6.23	130.72	120.94
1	2G	228	ALA	C-N-CA	6.23	130.72	120.94
1	2I	29	GLU	CB-CA-C	-6.23	101.13	109.16
1	2N	173	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	35	92	GLU	N-CA-C	-6.23	102.29	110.39
1	3p	110	THR	CA-C-N	6.23	128.95	120.54
1	3p	110	THR	C-N-CA	6.23	128.95	120.54
1	3E	82	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	3V	228	ALA	CB-CA-C	6.23	120.30	109.65
1	3X	162	ARG	O-C-N	-6.23	115.52	122.12
1	49	201	ILE	CA-C-N	6.23	128.91	120.38
1	49	201	ILE	C-N-CA	6.23	128.91	120.38
1	4f	191	VAL	CA-C-N	6.23	128.54	120.44
1	4f	191	VAL	C-N-CA	6.23	128.54	120.44
1	4n	168	PHE	CB-CA-C	6.23	121.13	110.79
1	4x	8	GLY	CA-C-O	-6.23	115.51	122.24
1	4Z	11	VAL	N-CA-C	6.23	117.76	108.54
1	50	168	PHE	N-CA-C	6.23	118.07	111.28
1	5l	227	LYS	N-CA-C	-6.23	104.85	112.88
1	5q	12	HIS	CE1-NE2-CD2	-6.23	102.77	109.00
1	5F	218	CYS	CA-C-N	6.23	129.97	120.82
1	5F	218	CYS	C-N-CA	6.23	129.97	120.82
1	5I	100	ARG	NH1-CZ-NH2	-6.23	111.20	119.30
1	6n	100	ARG	CD-NE-CZ	6.23	133.12	124.40
1	6R	173	ARG	NE-CZ-NH1	6.23	127.73	121.50
1	7e	230	VAL	O-C-N	-6.23	114.01	122.11
1	7C	70	LYS	O-C-N	-6.23	115.05	122.15
1	7F	124	ILE	N-CA-CB	6.23	118.92	111.08
1	7K	32	PHE	CA-CB-CG	-6.23	107.57	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	16	SER	O-C-N	-6.23	114.46	121.43
1	7L	139	ASN	CA-CB-CG	6.23	118.83	112.60
1	7T	14	ALA	O-C-N	6.23	130.47	122.81
1	7Y	128	GLU	N-CA-C	6.23	118.87	111.33
1	82	29	GLU	CA-C-O	-6.23	114.28	120.70
1	82	97	ARG	CA-C-O	6.23	128.35	121.56
1	84	19	THR	N-CA-CB	6.23	119.48	110.20
1	85	98	GLU	O-C-N	-6.23	115.76	121.30
1	86	3	VAL	O-C-N	-6.23	114.78	122.57
1	8c	218	CYS	N-CA-C	6.23	118.80	111.02
1	8n	125	PRO	CA-C-O	6.23	125.92	121.31
1	8x	83	LEU	N-CA-C	-6.23	104.38	112.23
1	8G	106	GLY	O-C-N	-6.23	115.16	122.45
1	8L	49	PRO	CA-C-N	6.23	128.53	120.44
1	8L	49	PRO	C-N-CA	6.23	128.53	120.44
1	8S	66	MET	CA-C-O	6.23	127.15	120.55
1	8S	76	GLU	N-CA-C	6.23	117.73	111.07
1	9a	87	HIS	CA-CB-CG	6.23	120.03	113.80
1	9d	128	GLU	CB-CA-C	-6.23	101.10	110.88
1	9j	228	ALA	O-C-N	-6.23	115.37	122.97
1	9F	23	TRP	N-CA-C	6.23	118.07	111.28
1	9G	48	THR	N-CA-CB	6.23	117.56	110.03
1	9N	182	LYS	N-CA-C	6.23	118.07	111.28
1	9O	155	GLN	O-C-N	-6.23	115.76	123.36
1	9Z	75	GLU	N-CA-C	6.23	117.73	111.07
1	a4	28	GLU	O-C-N	-6.23	115.66	122.07
1	a7	63	GLN	O-C-N	-6.23	114.93	122.22
1	11	97	ARG	NE-CZ-NH2	6.23	124.80	119.20
1	ao	127	GLY	O-C-N	6.23	128.16	122.18
1	au	9	GLN	N-CA-C	6.23	118.34	110.24
1	aV	100	ARG	NE-CZ-NH2	-6.23	113.59	119.20
1	aV	227	LYS	N-CA-C	6.23	119.07	110.35
1	aW	136	LEU	N-CA-C	6.23	118.87	111.33
1	17	210	THR	O-C-N	-6.23	115.09	123.19
1	bj	201	ILE	CA-C-N	6.23	128.62	120.28
1	bj	201	ILE	C-N-CA	6.23	128.62	120.28
1	bt	100	ARG	O-C-N	-6.23	115.33	122.68
1	bL	19	THR	CA-C-N	6.23	128.54	120.44
1	bL	19	THR	C-N-CA	6.23	128.54	120.44
1	bP	143	ARG	NE-CZ-NH2	-6.23	113.59	119.20
1	bV	86	VAL	CA-C-O	-6.23	114.57	121.23
1	c1	7	GLN	CA-C-O	6.23	129.75	121.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cg	195	ASN	CA-CB-CG	6.23	118.83	112.60
1	cy	135	ILE	CA-C-N	6.23	128.53	120.44
1	cy	135	ILE	C-N-CA	6.23	128.53	120.44
1	1g	162	ARG	NE-CZ-NH2	-6.23	113.59	119.20
1	cM	56	LEU	O-C-N	-6.23	115.52	122.12
1	cR	161	PHE	CA-C-N	6.23	128.91	120.38
1	cR	161	PHE	C-N-CA	6.23	128.91	120.38
1	d8	122	PRO	CA-C-N	6.23	127.62	119.84
1	d8	122	PRO	C-N-CA	6.23	127.62	119.84
1	dp	109	SER	O-C-N	-6.23	115.94	123.10
1	1m	14	ALA	CA-C-N	6.23	129.08	120.49
1	1m	14	ALA	C-N-CA	6.23	129.08	120.49
1	dT	5	ASN	N-CA-C	6.23	119.05	111.82
1	e8	225	GLY	O-C-N	-6.23	115.64	122.24
1	ei	72	THR	CA-CB-OG1	6.23	118.94	109.60
1	er	42	ALA	CA-C-O	6.23	127.14	120.10
1	ex	127	GLY	CA-C-N	6.23	129.13	120.29
1	ex	127	GLY	C-N-CA	6.23	129.13	120.29
1	eN	62	HIS	N-CA-C	6.23	119.95	111.17
1	eY	190	LEU	CA-C-N	6.23	130.51	120.30
1	eY	190	LEU	C-N-CA	6.23	130.51	120.30
1	fu	15	ILE	N-CA-C	6.23	118.60	109.63
1	fv	183	ASN	CA-CB-CG	-6.23	106.37	112.60
1	fy	172	LEU	O-C-N	-6.23	113.86	122.46
1	fJ	129	ILE	N-CA-C	6.23	117.01	110.72
1	g0	40	PHE	CA-CB-CG	-6.23	107.57	113.80
1	y	137	GLY	CA-C-N	6.23	129.13	120.29
1	y	137	GLY	C-N-CA	6.23	129.13	120.29
1	z	97	ARG	N-CA-C	6.23	118.34	110.24
1	X	57	ASN	N-CA-C	-6.23	105.44	113.16
1	ge	79	GLU	CA-C-N	6.23	129.13	120.29
1	ge	79	GLU	C-N-CA	6.23	129.13	120.29
1	gj	192	GLN	OE1-CD-NE2	6.23	128.83	122.60
1	gL	144	MET	N-CA-C	6.23	119.98	112.38
1	1F	139	ASN	CA-CB-CG	6.23	118.83	112.60
1	gM	75	GLU	N-CA-C	6.23	118.07	111.28
1	gN	161	PHE	CA-CB-CG	-6.23	107.57	113.80
1	iN	72	THR	O-C-N	-6.23	115.05	122.15
1	jw	226	HIS	CG-CD2-NE2	6.23	113.43	107.20
1	24	192	GLN	N-CA-C	6.23	118.15	111.36
1	lh	59	VAL	N-CA-C	6.23	117.33	108.93
1	2q	12	HIS	CE1-NE2-CD2	-6.23	102.77	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2u	161	PHE	N-CA-C	-6.23	104.41	111.07
1	2C	50	GLN	N-CA-C	6.23	118.07	111.28
1	3P	87	HIS	N-CA-C	6.23	119.66	109.76
1	43	19	THR	N-CA-CB	6.23	119.04	110.01
1	4f	74	ASN	CA-C-N	6.23	128.87	120.65
1	4f	74	ASN	C-N-CA	6.23	128.87	120.65
1	4g	79	GLU	N-CA-C	6.23	118.58	111.11
1	4o	213	GLU	N-CA-C	-6.23	104.42	111.14
1	4Q	14	ALA	O-C-N	-6.23	115.21	122.87
1	4S	95	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	5A	114	GLN	CA-C-N	6.23	128.99	120.46
1	5A	114	GLN	C-N-CA	6.23	128.99	120.46
1	64	140	LYS	O-C-N	-6.23	115.05	122.15
1	6B	84	HIS	CA-C-O	-6.23	113.08	119.49
1	7e	202	LEU	N-CA-C	6.23	118.07	111.28
1	7Q	62	HIS	ND1-CE1-NE2	6.23	114.63	108.40
1	8l	11	VAL	CA-C-N	6.23	130.40	121.50
1	8l	11	VAL	C-N-CA	6.23	130.40	121.50
1	8D	176	GLN	OE1-CD-NE2	-6.23	116.37	122.60
1	96	164	TYR	CB-CA-C	6.23	120.66	110.88
1	b4	54	THR	N-CA-CB	6.23	119.38	110.16
1	bn	37	ILE	N-CA-CB	-6.23	106.35	110.52
1	bM	145	TYR	CA-CB-CG	-6.23	102.69	113.90
1	bM	203	LYS	O-C-N	-6.23	115.52	122.12
1	1c	131	LYS	CA-C-N	6.23	128.94	120.54
1	1c	131	LYS	C-N-CA	6.23	128.94	120.54
1	cl	146	SER	CA-C-O	-6.23	113.90	119.75
1	cy	9	GLN	CA-CB-CG	6.23	126.55	114.10
1	cO	26	VAL	N-CA-C	6.23	120.76	112.04
1	dl	72	THR	CA-C-O	-6.23	114.28	120.82
1	dw	137	GLY	CA-C-N	6.23	128.62	120.28
1	dw	137	GLY	C-N-CA	6.23	128.62	120.28
1	e2	120	HIS	CB-CG-CD2	-6.23	123.11	131.20
1	e5	55	MET	N-CA-C	6.23	118.07	111.28
1	eu	76	GLU	N-CA-C	6.23	118.07	111.28
1	fh	23	TRP	N-CA-C	6.23	117.73	111.07
1	1x	123	PRO	O-C-N	-6.23	115.63	123.10
1	0	148	THR	CA-CB-CG2	6.23	121.08	110.50
1	g	18	ARG	CA-C-O	6.23	127.15	120.55
1	g	88	ALA	N-CA-CB	-6.23	102.17	110.57
1	M	91	ILE	CA-C-N	6.23	129.54	120.51
1	M	91	ILE	C-N-CA	6.23	129.54	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	163	ASP	CB-CA-C	6.22	120.74	110.90
1	gy	36	VAL	N-CA-C	6.22	117.01	110.72
1	gy	143	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	gy	229	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	gE	185	MET	N-CA-C	6.22	118.06	111.28
1	gW	73	ILE	N-CA-CB	6.22	122.04	110.77
1	he	156	GLY	CA-C-O	-6.22	112.62	121.52
1	hK	48	THR	CA-C-O	-6.22	113.91	120.88
1	hO	193	ASN	CA-CB-CG	-6.22	106.38	112.60
1	hV	87	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	hW	135	ILE	CA-C-N	6.22	128.53	120.44
1	hW	135	ILE	C-N-CA	6.22	128.53	120.44
1	hW	191	VAL	N-CA-CB	6.22	117.42	110.51
1	hX	167	ARG	NE-CZ-NH2	-6.22	113.60	119.20
1	id	103	ASP	O-C-N	-6.22	115.52	122.12
1	it	185	MET	CG-SD-CE	-6.22	87.21	100.90
1	iv	109	SER	N-CA-CB	6.22	120.79	110.52
1	iN	156	GLY	CA-C-N	6.22	127.62	119.84
1	iN	156	GLY	C-N-CA	6.22	127.62	119.84
1	jN	192	GLN	N-CA-C	6.22	120.48	113.01
1	jQ	140	LYS	N-CA-C	6.22	118.87	111.71
1	ki	39	MET	N-CA-C	6.22	118.06	111.28
1	kO	42	ALA	N-CA-C	6.22	118.06	111.28
1	kU	21	ASN	CB-CA-C	6.22	120.65	110.88
1	lo	143	ARG	NE-CZ-NH2	-6.22	113.60	119.20
1	2l	155	GLN	CB-CG-CD	6.22	123.18	112.60
1	2o	115	ILE	CA-CB-CG1	6.22	120.98	110.40
1	2q	122	PRO	CA-C-N	6.22	126.24	119.89
1	2q	122	PRO	C-N-CA	6.22	126.24	119.89
1	2u	110	THR	CA-C-O	-6.22	114.38	121.72
1	2L	84	HIS	CA-CB-CG	-6.22	107.58	113.80
1	2O	184	TRP	N-CA-C	6.22	117.73	111.07
1	2T	16	SER	CA-C-N	6.22	127.62	119.84
1	2T	16	SER	C-N-CA	6.22	127.62	119.84
1	2Z	46	GLY	CA-C-N	6.22	129.55	120.71
1	2Z	46	GLY	C-N-CA	6.22	129.55	120.71
1	35	165	VAL	O-C-N	-6.22	115.42	121.83
1	3q	38	PRO	N-CA-CB	6.22	110.18	103.33
1	3B	153	ILE	O-C-N	-6.22	115.51	122.05
1	48	164	TYR	N-CA-C	6.22	118.06	111.28
1	4a	197	ASP	CA-CB-CG	6.22	118.82	112.60
1	4H	101	GLY	CA-C-N	6.22	129.13	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4H	101	GLY	C-N-CA	6.22	129.13	120.29
1	4J	34	PRO	CA-C-N	6.22	129.77	120.31
1	4J	34	PRO	C-N-CA	6.22	129.77	120.31
1	4L	100	ARG	CA-C-O	6.22	129.17	121.89
1	4P	187	GLU	N-CA-C	6.22	117.75	110.97
1	57	12	HIS	CA-CB-CG	6.22	120.02	113.80
1	5e	130	TYR	CA-C-N	6.22	128.62	120.28
1	5e	130	TYR	C-N-CA	6.22	128.62	120.28
1	5r	174	ALA	CA-C-N	6.22	130.15	120.75
1	5r	174	ALA	C-N-CA	6.22	130.15	120.75
1	6o	132	ARG	CA-C-N	6.22	129.77	120.31
1	6o	132	ARG	C-N-CA	6.22	129.77	120.31
1	6t	57	ASN	OD1-CG-ND2	6.22	128.82	122.60
1	6K	226	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	6R	215	MET	CA-C-N	6.22	128.62	120.28
1	6R	215	MET	C-N-CA	6.22	128.62	120.28
1	6S	95	GLN	CA-C-O	6.22	128.07	120.60
1	6U	224	PRO	O-C-N	6.22	131.04	122.64
1	7b	35	GLU	N-CA-C	6.22	119.97	112.38
1	7G	55	MET	CA-C-O	6.22	127.36	120.82
1	7O	14	ALA	N-CA-CB	-6.22	101.85	110.38
1	7T	218	CYS	O-C-N	-6.22	113.87	122.46
1	8O	18	ARG	N-CA-CB	6.22	119.03	110.01
1	96	130	TYR	N-CA-C	6.22	119.04	111.82
1	9a	21	ASN	CA-C-N	6.22	128.53	120.44
1	9a	21	ASN	C-N-CA	6.22	128.53	120.44
1	9d	39	MET	CG-SD-CE	-6.22	87.21	100.90
1	9m	118	MET	CA-C-N	6.22	132.31	122.60
1	9m	118	MET	C-N-CA	6.22	132.31	122.60
1	9o	58	THR	N-CA-CB	6.22	120.15	110.44
1	ab	79	GLU	CA-C-N	6.22	128.62	120.28
1	ab	79	GLU	C-N-CA	6.22	128.62	120.28
1	ad	118	MET	N-CA-C	6.22	118.06	111.28
1	ap	32	PHE	N-CA-C	6.22	119.25	110.23
1	aB	47	ALA	CA-C-O	6.22	127.71	120.80
1	aH	52	LEU	N-CA-C	6.22	117.73	111.07
1	aP	197	ASP	N-CA-CB	6.22	119.27	110.12
1	aQ	201	ILE	CA-C-N	6.22	128.53	120.44
1	aQ	201	ILE	C-N-CA	6.22	128.53	120.44
1	aQ	226	HIS	CG-CD2-NE2	6.22	113.42	107.20
1	aV	204	ALA	N-CA-C	6.22	118.06	111.28
1	b8	34	PRO	CA-C-N	6.22	128.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b8	34	PRO	C-N-CA	6.22	128.53	120.44
1	19	112	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	bF	87	HIS	CA-C-O	6.22	127.23	120.32
1	bR	54	THR	CA-C-N	6.22	128.53	120.44
1	bR	54	THR	C-N-CA	6.22	128.53	120.44
1	bR	88	ALA	CA-C-O	6.22	128.72	121.87
1	1i	113	GLU	O-C-N	-6.22	115.66	122.07
1	dh	77	ALA	CA-C-O	6.22	127.36	120.82
1	dh	111	LEU	O-C-N	-6.22	115.52	122.12
1	dk	101	GLY	N-CA-C	6.22	120.42	112.83
1	dC	143	ARG	NE-CZ-NH2	-6.22	113.60	119.20
1	dV	82	ARG	CA-C-O	6.22	126.27	119.24
1	e0	127	GLY	CA-C-N	6.22	128.91	120.38
1	e0	127	GLY	C-N-CA	6.22	128.91	120.38
1	e6	113	GLU	CA-C-N	6.22	128.53	120.44
1	e6	113	GLU	C-N-CA	6.22	128.53	120.44
1	em	165	VAL	O-C-N	-6.22	113.53	122.12
1	eM	182	LYS	N-CA-C	6.22	117.73	111.07
1	eS	43	LEU	CA-C-O	6.22	127.08	119.11
1	f2	200	THR	O-C-N	-6.22	115.52	122.12
1	fj	91	ILE	CB-CA-C	-6.22	104.51	111.23
1	fm	13	GLN	OE1-CD-NE2	6.22	128.82	122.60
1	fm	172	LEU	N-CA-C	6.22	118.58	111.11
1	fz	26	VAL	CA-C-O	-6.22	113.75	120.47
1	fR	57	ASN	CA-CB-CG	-6.22	106.38	112.60
1	fT	21	ASN	N-CA-C	6.22	119.04	111.82
1	fT	37	ILE	O-C-N	-6.22	116.44	120.42
1	fT	148	THR	N-CA-C	6.22	119.97	112.38
1	g0	80	TRP	N-CA-C	6.22	118.87	111.71
1	g	165	VAL	CA-CB-CG1	6.22	120.98	110.40
1	g	178	SER	CA-C-O	6.22	128.72	121.87
1	gc	202	LEU	O-C-N	-6.22	115.62	122.09
1	gj	195	ASN	CB-CA-C	6.22	119.67	109.46
1	gr	95	GLN	CA-C-N	6.22	129.54	120.71
1	gr	95	GLN	C-N-CA	6.22	129.54	120.71
1	gt	84	HIS	CA-C-N	6.22	126.25	119.90
1	gt	84	HIS	C-N-CA	6.22	126.25	119.90
1	1F	143	ARG	NH1-CZ-NH2	-6.22	111.21	119.30
1	hi	146	SER	CA-C-O	-6.22	112.61	118.33
1	hk	161	PHE	N-CA-C	6.22	118.86	111.33
1	hX	93	PRO	CA-C-N	6.22	130.99	120.91
1	hX	93	PRO	C-N-CA	6.22	130.99	120.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i3	159	GLU	CA-C-N	6.22	126.58	119.92
1	i3	159	GLU	C-N-CA	6.22	126.58	119.92
1	im	149	SER	CA-C-O	6.22	127.16	120.32
1	ja	51	ASP	CA-C-N	6.22	128.62	120.28
1	ja	51	ASP	C-N-CA	6.22	128.62	120.28
1	jl	137	GLY	CA-C-O	6.22	127.26	120.66
1	jo	13	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	jp	186	THR	N-CA-CB	6.22	119.88	110.30
1	jH	114	GLN	O-C-N	-6.22	115.66	122.07
1	jT	184	TRP	CA-C-O	6.22	127.15	120.55
1	jU	36	VAL	CA-C-N	6.22	124.16	120.24
1	jU	36	VAL	C-N-CA	6.22	124.16	120.24
1	jV	130	TYR	CB-CG-CD2	-6.22	111.47	120.80
1	21	87	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	kp	198	CYS	O-C-N	-6.22	115.52	122.12
1	l0	97	ARG	N-CA-C	6.22	118.81	110.35
1	l6	80	TRP	CA-C-N	6.22	128.90	120.38
1	l6	80	TRP	C-N-CA	6.22	128.90	120.38
1	lc	59	VAL	N-CA-CB	6.22	117.42	110.51
1	lF	168	PHE	N-CA-CB	-6.22	100.97	110.12
1	2d	138	LEU	N-CA-CB	6.22	119.39	110.06
1	2H	154	ARG	O-C-N	-6.22	116.76	123.42
1	2K	125	PRO	CA-C-O	-6.22	116.59	121.38
1	2N	34	PRO	CB-CA-C	-6.22	100.57	111.21
1	2R	220	GLY	CA-C-N	6.22	128.84	120.50
1	2R	220	GLY	C-N-CA	6.22	128.84	120.50
1	3A	105	ALA	CA-C-O	6.22	127.18	119.78
1	3H	77	ALA	N-CA-C	6.22	117.73	111.07
1	45	113	GLU	O-C-N	6.22	129.24	122.15
1	4b	40	PHE	CA-C-N	6.22	128.62	120.28
1	4b	40	PHE	C-N-CA	6.22	128.62	120.28
1	4p	44	SER	O-C-N	-6.22	114.36	122.39
1	4A	199	LYS	N-CA-C	6.22	118.58	111.11
1	4F	161	PHE	N-CA-C	6.22	121.64	111.37
1	4S	51	ASP	CA-CB-CG	6.22	118.82	112.60
1	51	34	PRO	CA-C-N	6.22	128.91	120.38
1	51	34	PRO	C-N-CA	6.22	128.91	120.38
1	5m	63	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	5n	26	VAL	N-CA-CB	6.22	119.00	110.54
1	5o	116	GLY	CA-C-N	6.22	129.12	120.29
1	5o	116	GLY	C-N-CA	6.22	129.12	120.29
1	5p	170	LYS	CB-CA-C	-6.22	100.10	110.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5v	229	ARG	N-CA-C	6.22	119.56	112.97
1	61	148	THR	O-C-N	-6.22	116.16	123.25
1	65	212	GLU	CA-C-N	6.22	128.53	120.44
1	65	212	GLU	C-N-CA	6.22	128.53	120.44
1	6g	64	ALA	CA-C-N	6.22	129.12	120.29
1	6g	64	ALA	C-N-CA	6.22	129.12	120.29
1	6m	155	GLN	O-C-N	-6.22	115.76	123.04
1	6m	224	PRO	N-CA-CB	6.22	110.41	103.44
1	6B	132	ARG	NE-CZ-NH2	-6.22	113.60	119.20
1	6M	87	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	7d	81	ASP	N-CA-C	6.22	120.07	112.23
1	7E	14	ALA	N-CA-C	6.22	119.49	110.28
1	7M	213	GLU	O-C-N	-6.22	115.66	122.07
1	87	80	TRP	N-CA-C	6.22	117.73	111.07
1	8w	100	ARG	CA-C-N	6.22	127.02	119.99
1	8w	100	ARG	C-N-CA	6.22	127.02	119.99
1	8A	146	SER	CA-C-N	6.22	127.62	119.84
1	8A	146	SER	C-N-CA	6.22	127.62	119.84
1	8F	76	GLU	N-CA-CB	6.22	119.37	110.16
1	8J	33	SER	CA-C-O	-6.22	111.64	120.16
1	8W	180	GLU	N-CA-C	6.22	118.58	111.11
1	96	66	MET	CA-C-N	6.22	128.62	120.28
1	96	66	MET	C-N-CA	6.22	128.62	120.28
1	9x	213	GLU	N-CA-C	6.22	118.06	111.28
1	9I	185	MET	CA-C-N	6.22	128.90	120.44
1	9I	185	MET	C-N-CA	6.22	128.90	120.44
1	a9	204	ALA	CA-C-N	-6.22	111.16	121.92
1	a9	204	ALA	C-N-CA	-6.22	111.16	121.92
1	aq	161	PHE	CA-CB-CG	6.22	120.02	113.80
1	ar	124	ILE	CA-C-O	-6.22	114.66	119.20
1	b9	37	ILE	N-CA-CB	6.22	114.69	110.52
1	bE	190	LEU	CA-C-O	6.22	127.35	120.82
1	bO	226	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	bT	152	ASP	CA-CB-CG	6.22	118.82	112.60
1	1b	210	THR	CA-C-N	6.22	129.44	120.79
1	1b	210	THR	C-N-CA	6.22	129.44	120.79
1	c8	167	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	cg	67	GLN	CB-CG-CD	6.22	123.18	112.60
1	cg	80	TRP	CA-C-N	6.22	128.53	120.44
1	cg	80	TRP	C-N-CA	6.22	128.53	120.44
1	cg	120	HIS	CB-CG-ND1	6.22	132.03	122.70
1	ct	137	GLY	O-C-N	-6.22	116.21	122.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cw	131	LYS	CB-CG-CD	6.22	125.61	111.30
1	cF	120	HIS	N-CA-C	-6.22	101.73	110.50
1	cQ	162	ARG	CA-C-N	6.22	128.94	120.54
1	cQ	162	ARG	C-N-CA	6.22	128.94	120.54
1	1j	9	GLN	O-C-N	-6.22	115.31	123.21
1	1m	112	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	dK	108	THR	OG1-CB-CG2	-6.22	96.86	109.30
1	dT	173	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	ed	98	GLU	N-CA-C	6.22	117.54	109.64
1	eA	202	LEU	CA-C-O	6.22	127.35	120.82
1	f2	125	PRO	CA-C-N	6.22	128.99	120.46
1	f2	125	PRO	C-N-CA	6.22	128.99	120.46
1	fb	201	ILE	N-CA-C	6.22	116.97	110.62
1	fe	8	GLY	CA-C-O	-6.22	116.15	122.56
1	fo	215	MET	N-CA-C	6.22	119.71	111.75
1	fr	215	MET	CG-SD-CE	-6.22	87.21	100.90
1	b	62	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	b	63	GLN	N-CA-C	6.22	117.73	111.07
1	x	212	GLU	O-C-N	-6.22	115.52	122.12
1	O	117	TRP	CB-CG-CD1	6.22	136.23	126.90
1	h3	163	ASP	O-C-N	-6.22	114.94	122.22
1	hG	24	VAL	N-CA-C	6.22	116.97	110.62
1	hG	40	PHE	O-C-N	-6.22	115.62	122.09
1	hG	66	MET	N-CA-C	6.22	118.06	111.28
1	ig	162	ARG	CA-C-N	6.22	131.25	120.68
1	ig	162	ARG	C-N-CA	6.22	131.25	120.68
1	j9	195	ASN	CA-C-N	6.22	127.62	119.84
1	j9	195	ASN	C-N-CA	6.22	127.62	119.84
1	jw	140	LYS	O-C-N	-6.22	115.56	122.03
1	l8	178	SER	N-CA-C	6.22	118.06	110.41
1	lM	226	HIS	CG-CD2-NE2	6.22	113.42	107.20
1	lP	28	GLU	N-CA-C	6.22	119.04	111.82
1	2e	50	GLN	CA-C-N	6.22	128.90	120.38
1	2e	50	GLN	C-N-CA	6.22	128.90	120.38
1	2m	154	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	2s	93	PRO	CA-C-O	-6.22	114.34	121.56
1	2u	121	ASN	CB-CG-OD1	6.22	133.24	120.80
1	2B	205	LEU	CA-C-N	6.22	131.64	121.87
1	2B	205	LEU	C-N-CA	6.22	131.64	121.87
1	36	44	SER	CA-C-O	-6.22	112.28	119.56
1	38	117	TRP	N-CA-CB	6.22	119.34	110.13
1	3o	11	VAL	N-CA-C	-6.22	100.14	108.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	47	48	THR	N-CA-CB	6.22	116.52	109.49
1	6d	56	LEU	N-CA-C	6.22	118.14	111.36
1	6x	202	LEU	CA-C-N	6.22	128.62	120.28
1	6x	202	LEU	C-N-CA	6.22	128.62	120.28
1	6z	193	ASN	CA-CB-CG	-6.22	106.38	112.60
1	6G	67	GLN	O-C-N	-6.22	115.53	122.12
1	6G	68	MET	N-CA-C	6.22	118.86	111.33
1	7d	102	SER	CA-C-O	6.22	127.13	120.10
1	8U	78	ALA	CA-C-N	6.22	128.62	120.28
1	8U	78	ALA	C-N-CA	6.22	128.62	120.28
1	94	209	ALA	N-CA-C	6.22	119.01	110.24
1	9v	195	ASN	CB-CG-ND2	6.22	125.73	116.40
1	9y	201	ILE	N-CA-C	6.22	116.39	110.42
1	9N	124	ILE	N-CA-C	6.22	114.04	107.76
1	a5	226	HIS	CA-C-N	6.22	131.37	121.66
1	a5	226	HIS	C-N-CA	6.22	131.37	121.66
1	aj	163	ASP	CA-CB-CG	6.22	118.82	112.60
1	12	84	HIS	CB-CA-C	-6.22	103.27	110.17
1	aS	9	GLN	OE1-CD-NE2	6.22	128.82	122.60
1	aV	164	TYR	N-CA-C	6.22	117.86	111.14
1	br	40	PHE	CA-C-N	6.22	128.62	120.28
1	br	40	PHE	C-N-CA	6.22	128.62	120.28
1	ck	193	ASN	CA-CB-CG	-6.22	106.38	112.60
1	cD	52	LEU	O-C-N	-6.22	115.66	122.07
1	dj	62	HIS	CA-CB-CG	6.22	120.02	113.80
1	dP	178	SER	O-C-N	-6.22	115.22	122.87
1	e0	187	GLU	N-CA-C	6.22	118.58	111.11
1	eA	223	GLY	N-CA-C	6.22	119.47	112.00
1	q	143	ARG	NE-CZ-NH2	6.22	124.80	119.20
1	r	160	PRO	O-C-N	6.22	130.79	122.89
1	I	216	THR	CA-C-N	6.22	128.62	120.28
1	I	216	THR	C-N-CA	6.22	128.62	120.28
1	gg	125	PRO	CA-C-N	6.22	129.30	120.53
1	gg	125	PRO	C-N-CA	6.22	129.30	120.53
1	1D	4	GLN	N-CA-C	6.22	118.81	110.35
1	gu	73	ILE	CA-C-N	6.22	128.94	120.54
1	gu	73	ILE	C-N-CA	6.22	128.94	120.54
1	gw	25	LYS	O-C-N	-6.22	115.53	122.12
1	gA	142	VAL	N-CA-C	6.22	116.97	110.62
1	gE	21	ASN	CB-CG-ND2	6.22	125.73	116.40
1	gI	226	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	hn	180	GLU	O-C-N	-6.22	115.06	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ho	114	GLN	CA-C-N	6.22	128.98	120.46
1	ho	114	GLN	C-N-CA	6.22	128.98	120.46
1	hr	204	ALA	N-CA-C	6.22	118.58	111.11
1	hA	126	VAL	CA-C-N	6.22	126.89	119.98
1	hA	126	VAL	C-N-CA	6.22	126.89	119.98
1	hB	21	ASN	CA-CB-CG	6.22	118.82	112.60
1	hF	205	LEU	CA-C-N	6.22	131.63	121.87
1	hF	205	LEU	C-N-CA	6.22	131.63	121.87
1	i3	2	ILE	N-CA-C	-6.22	98.67	107.75
1	i3	185	MET	N-CA-C	6.22	117.72	111.07
1	ie	135	ILE	N-CA-CB	6.22	117.83	110.55
1	ii	107	THR	N-CA-C	6.22	117.86	111.14
1	ir	22	ALA	O-C-N	-6.22	115.66	122.07
1	iu	185	MET	CA-C-N	6.22	128.86	120.65
1	iu	185	MET	C-N-CA	6.22	128.86	120.65
1	iy	96	MET	CB-CA-C	6.22	120.05	109.72
1	iT	87	HIS	CG-CD2-NE2	6.22	113.42	107.20
1	j5	199	LYS	CA-C-N	6.22	128.94	120.54
1	j5	199	LYS	C-N-CA	6.22	128.94	120.54
1	jm	214	MET	CG-SD-CE	-6.22	87.22	100.90
1	jp	39	MET	CA-C-N	6.22	128.61	120.28
1	jp	39	MET	C-N-CA	6.22	128.61	120.28
1	jI	61	GLY	CA-C-N	6.22	131.19	122.36
1	jI	61	GLY	C-N-CA	6.22	131.19	122.36
1	jM	215	MET	CG-SD-CE	-6.22	87.22	100.90
1	km	14	ALA	CA-C-N	6.22	129.77	120.69
1	km	14	ALA	C-N-CA	6.22	129.77	120.69
1	kM	205	LEU	CA-C-N	6.22	131.63	121.87
1	kM	205	LEU	C-N-CA	6.22	131.63	121.87
1	kR	92	GLU	O-C-N	-6.22	114.17	121.32
1	kS	48	THR	N-CA-CB	6.22	118.44	110.04
1	lb	121	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	lq	74	ASN	N-CA-C	6.22	117.72	111.07
1	lq	110	THR	CA-CB-OG1	6.22	118.93	109.60
1	lQ	28	GLU	N-CA-C	6.22	118.06	111.28
1	2g	8	GLY	N-CA-C	6.22	119.53	110.63
1	2m	14	ALA	CA-C-N	6.22	133.17	121.97
1	2m	14	ALA	C-N-CA	6.22	133.17	121.97
1	2A	159	GLU	N-CA-C	6.22	117.49	109.72
1	2D	197	ASP	CB-CG-OD2	6.22	132.70	118.40
1	2O	80	TRP	N-CA-C	6.22	118.57	111.11
1	2T	16	SER	O-C-N	-6.22	114.89	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2T	132	ARG	NH1-CZ-NH2	-6.22	111.22	119.30
1	2V	26	VAL	O-C-N	-6.22	115.84	121.87
1	30	214	MET	CA-C-O	-6.22	113.07	120.10
1	32	193	ASN	O-C-N	-6.22	114.85	122.25
1	35	210	THR	O-C-N	-6.22	115.47	122.75
1	3d	42	ALA	O-C-N	-6.22	115.53	122.12
1	3x	13	GLN	O-C-N	-6.22	116.05	123.27
1	3L	139	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	3W	92	GLU	CA-C-O	6.22	125.90	119.49
1	4d	87	HIS	CA-C-O	6.22	128.03	121.19
1	4B	64	ALA	O-C-N	-6.22	115.53	122.12
1	4F	137	GLY	CA-C-O	6.22	127.25	120.66
1	5m	58	THR	CA-CB-OG1	6.22	118.93	109.60
1	5U	110	THR	O-C-N	-6.22	115.06	123.15
1	6g	142	VAL	CA-C-N	6.22	128.61	120.28
1	6g	142	VAL	C-N-CA	6.22	128.61	120.28
1	6G	203	LYS	N-CA-C	6.22	118.06	111.28
1	6V	154	ARG	O-C-N	-6.22	115.59	123.24
1	7h	195	ASN	CA-C-N	6.22	127.61	119.84
1	7h	195	ASN	C-N-CA	6.22	127.61	119.84
1	7r	226	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	7I	37	ILE	CA-C-N	6.22	125.71	119.24
1	7I	37	ILE	C-N-CA	6.22	125.71	119.24
1	7R	211	LEU	N-CA-C	6.22	118.86	111.71
1	8C	18	ARG	NE-CZ-NH2	-6.22	113.60	119.20
1	8G	208	ALA	CA-C-O	6.22	127.02	119.31
1	8M	185	MET	N-CA-C	6.22	117.72	111.07
1	8S	216	THR	CA-CB-CG2	-6.22	99.93	110.50
1	95	12	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	9a	177	ALA	O-C-N	-6.22	115.38	122.97
1	9o	5	ASN	N-CA-C	6.22	119.23	109.96
1	9t	101	GLY	CA-C-N	6.22	128.61	120.28
1	9t	101	GLY	C-N-CA	6.22	128.61	120.28
1	9v	52	LEU	CA-C-O	6.22	127.14	120.55
1	Y	184	TRP	CB-CG-CD1	-6.22	117.57	126.90
1	at	2	ILE	N-CA-C	6.22	117.08	109.30
1	aA	31	ALA	N-CA-C	6.22	120.13	112.54
1	aD	226	HIS	CG-CD2-NE2	6.22	113.42	107.20
1	aL	86	VAL	O-C-N	6.22	128.82	122.79
1	aM	181	VAL	CB-CA-C	6.22	119.93	111.97
1	aP	50	GLN	N-CA-CB	-6.22	100.99	110.01
1	aZ	54	THR	N-CA-C	6.22	118.57	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b4	9	GLN	CA-C-N	6.22	129.67	120.90
1	b4	9	GLN	C-N-CA	6.22	129.67	120.90
1	bg	3	VAL	CA-C-N	6.22	130.31	121.42
1	bg	3	VAL	C-N-CA	6.22	130.31	121.42
1	bi	224	PRO	N-CA-CB	-6.22	96.13	102.72
1	bo	115	ILE	N-CA-CB	6.22	119.00	110.54
1	18	155	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	bT	96	MET	O-C-N	-6.22	115.97	122.94
1	ck	191	VAL	N-CA-C	6.22	118.83	111.05
1	cl	87	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	co	29	GLU	CA-C-O	-6.22	112.30	119.14
1	ct	1	PRO	N-CA-CB	-6.22	96.16	103.00
1	cz	131	LYS	CA-C-N	6.22	128.61	120.28
1	cz	131	LYS	C-N-CA	6.22	128.61	120.28
1	cU	58	THR	N-CA-CB	6.22	120.71	110.39
1	d4	36	VAL	CA-C-O	-6.22	114.48	120.95
1	d6	176	GLN	CA-C-O	6.22	128.02	120.62
1	dc	170	LYS	CA-C-N	6.22	128.53	120.44
1	dc	170	LYS	C-N-CA	6.22	128.53	120.44
1	1l	20	LEU	CA-C-N	6.22	128.61	120.28
1	1l	20	LEU	C-N-CA	6.22	128.61	120.28
1	dT	76	GLU	N-CA-C	6.22	118.14	111.36
1	dX	112	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	dZ	62	HIS	CB-CG-ND1	-6.22	113.37	122.70
1	1o	217	ALA	N-CA-C	6.22	119.50	110.42
1	e4	82	ARG	O-C-N	-6.22	115.53	122.12
1	ea	124	ILE	N-CA-CB	6.22	118.88	111.23
1	eq	140	LYS	N-CA-C	6.22	118.86	111.71
1	eu	154	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	ev	44	SER	CA-C-N	6.22	128.62	120.28
1	ev	44	SER	C-N-CA	6.22	128.62	120.28
1	eB	149	SER	CA-C-N	6.22	129.25	120.42
1	eB	149	SER	C-N-CA	6.22	129.25	120.42
1	eH	201	ILE	N-CA-C	6.22	116.39	110.42
1	eN	82	ARG	CA-C-N	6.22	129.76	120.31
1	eN	82	ARG	C-N-CA	6.22	129.76	120.31
1	eY	201	ILE	N-CA-C	6.22	116.89	110.36
1	fJ	52	LEU	CA-C-O	-6.22	113.83	120.42
1	fN	25	LYS	N-CA-C	6.22	118.06	111.28
1	1z	63	GLN	N-CA-C	6.22	119.03	111.82
1	g7	149	SER	N-CA-C	6.22	118.74	110.53
1	b	177	ALA	N-CA-C	6.22	119.01	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	71	GLU	CA-C-N	6.22	131.22	120.58
1	h	71	GLU	C-N-CA	6.22	131.22	120.58
1	k	185	MET	CG-SD-CE	-6.22	87.22	100.90
1	T	124	ILE	CB-CA-C	6.22	118.38	111.04
1	go	22	ALA	CA-C-N	6.22	128.93	120.54
1	go	22	ALA	C-N-CA	6.22	128.93	120.54
1	1D	21	ASN	CA-C-N	6.22	128.52	120.44
1	1D	21	ASN	C-N-CA	6.22	128.52	120.44
1	gE	200	THR	O-C-N	-6.22	114.62	122.27
1	gL	70	LYS	N-CA-CB	6.22	119.03	110.01
1	gP	87	HIS	N-CA-C	6.22	118.81	110.35
1	hi	204	ALA	N-CA-C	6.22	118.57	111.11
1	hl	62	HIS	ND1-CG-CD2	6.22	112.32	106.10
1	hz	26	VAL	N-CA-C	6.22	116.39	110.42
1	1K	130	TYR	N-CA-C	6.22	117.72	111.07
1	ii	56	LEU	CA-C-O	6.22	127.14	120.24
1	ja	182	LYS	O-C-N	-6.22	115.62	122.09
1	jG	201	ILE	O-C-N	-6.22	113.90	122.05
1	kn	19	THR	CA-CB-OG1	-6.22	100.27	109.60
1	l3	129	ILE	CA-C-N	6.22	129.76	120.31
1	l3	129	ILE	C-N-CA	6.22	129.76	120.31
1	2v	109	SER	N-CA-CB	6.22	120.77	110.63
1	2D	139	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	2M	227	LYS	CA-C-N	6.22	130.96	122.07
1	2M	227	LYS	C-N-CA	6.22	130.96	122.07
1	3s	159	GLU	O-C-N	-6.22	114.17	121.32
1	3u	230	VAL	O-C-N	-6.22	116.80	123.14
1	3U	130	TYR	CA-C-N	6.22	128.52	120.44
1	3U	130	TYR	C-N-CA	6.22	128.52	120.44
1	4m	189	LEU	CA-C-O	6.22	127.14	120.55
1	4B	87	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	5b	126	VAL	CA-C-N	6.22	126.88	119.98
1	5b	126	VAL	C-N-CA	6.22	126.88	119.98
1	5h	202	LEU	N-CA-C	6.22	118.06	111.28
1	5o	57	ASN	CB-CA-C	6.22	121.11	110.79
1	5Z	56	LEU	O-C-N	6.22	128.47	122.07
1	6z	158	LYS	CG-CD-CE	6.22	125.60	111.30
1	7x	193	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	7H	51	ASP	CA-C-N	6.22	128.52	120.44
1	7H	51	ASP	C-N-CA	6.22	128.52	120.44
1	7K	71	GLU	N-CA-C	6.22	117.72	111.07
1	7M	179	GLN	CG-CD-NE2	6.22	125.73	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7U	209	ALA	N-CA-C	6.22	118.74	110.53
1	9O	84	HIS	CA-C-N	6.22	127.61	119.84
1	9O	84	HIS	C-N-CA	6.22	127.61	119.84
1	bc	217	ALA	N-CA-C	6.22	119.25	110.23
1	bi	230	VAL	O-C-N	-6.22	114.80	122.57
1	bJ	9	GLN	CG-CD-NE2	6.22	125.73	116.40
1	1h	162	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	eh	25	LYS	CA-C-N	6.22	128.40	120.56
1	eh	25	LYS	C-N-CA	6.22	128.40	120.56
1	fx	157	PRO	CB-CA-C	6.22	120.76	111.68
1	fG	150	ILE	N-CA-C	6.22	118.82	111.05
1	d	79	GLU	CA-C-O	6.22	127.13	120.10
1	f	16	SER	CB-CA-C	-6.22	99.36	109.56
1	L	87	HIS	CA-CB-CG	6.22	120.02	113.80
1	U	118	MET	N-CA-CB	6.22	119.39	110.06
1	9	117	TRP	O-C-N	-6.22	115.06	122.15
1	gg	184	TRP	CB-CG-CD2	6.22	135.50	126.80
1	gk	84	HIS	CB-CG-CD2	-6.22	123.12	131.20
1	gn	169	TYR	CB-CG-CD2	-6.22	111.47	120.80
1	gz	216	THR	CA-CB-CG2	6.22	121.07	110.50
1	gD	149	SER	O-C-N	-6.22	116.14	123.41
1	gF	37	ILE	CA-C-O	-6.22	113.57	118.85
1	gJ	152	ASP	CA-C-O	6.22	126.62	119.35
1	1F	93	PRO	N-CA-CB	-6.22	97.57	103.41
1	1G	63	GLN	CB-CA-C	6.22	121.11	110.79
1	1I	92	GLU	O-C-N	-6.22	114.57	121.53
1	1I	161	PHE	CA-C-N	6.22	128.52	120.44
1	1I	161	PHE	C-N-CA	6.22	128.52	120.44
1	hp	217	ALA	N-CA-C	6.22	119.05	110.35
1	1M	196	PRO	N-CA-C	6.22	123.01	113.75
1	hX	146	SER	CA-C-N	6.22	126.75	120.04
1	hX	146	SER	C-N-CA	6.22	126.75	120.04
1	i1	119	THR	O-C-N	-6.22	114.88	122.34
1	i5	169	TYR	N-CA-C	6.22	118.06	111.28
1	i8	5	ASN	N-CA-CB	-6.22	101.22	110.17
1	if	226	HIS	ND1-CE1-NE2	6.22	114.62	108.40
1	it	4	GLN	CA-C-O	6.22	127.30	120.71
1	iG	118	MET	N-CA-C	6.22	118.06	111.28
1	iY	160	PRO	N-CA-CB	6.22	109.78	103.25
1	j7	20	LEU	O-C-N	-6.22	115.67	122.07
1	je	183	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	jA	26	VAL	CA-CB-CG1	6.22	120.97	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jG	191	VAL	CA-C-N	6.22	128.93	120.54
1	jG	191	VAL	C-N-CA	6.22	128.93	120.54
1	k9	47	ALA	CA-C-N	6.22	130.81	120.86
1	k9	47	ALA	C-N-CA	6.22	130.81	120.86
1	kf	130	TYR	CA-C-N	6.22	128.52	120.44
1	kf	130	TYR	C-N-CA	6.22	128.52	120.44
1	kv	195	ASN	O-C-N	-6.22	114.47	121.43
1	ky	87	HIS	CB-CG-CD2	-6.22	123.12	131.20
1	kD	117	TRP	CB-CG-CD2	6.22	135.50	126.80
1	kG	59	VAL	CA-C-O	6.22	128.20	121.36
1	l2	53	ASN	CA-C-N	6.22	128.52	120.44
1	l2	53	ASN	C-N-CA	6.22	128.52	120.44
1	l2	57	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	lw	174	ALA	N-CA-C	6.22	119.96	112.38
1	ly	50	GLN	OE1-CD-NE2	-6.22	116.38	122.60
1	lJ	89	GLY	CA-C-O	-6.22	112.63	121.52
1	2m	210	THR	CA-C-N	6.22	128.61	120.28
1	2m	210	THR	C-N-CA	6.22	128.61	120.28
1	2p	23	TRP	CA-CB-CG	6.22	125.41	113.60
1	2u	161	PHE	O-C-N	6.22	128.47	122.07
1	2A	73	ILE	CA-C-O	6.22	127.94	121.29
1	2G	171	THR	CA-CB-CG2	6.22	121.07	110.50
1	35	166	ASP	N-CA-C	6.22	118.61	111.02
1	37	198	CYS	CA-C-N	6.22	128.61	120.28
1	37	198	CYS	C-N-CA	6.22	128.61	120.28
1	3a	92	GLU	N-CA-C	6.22	117.64	109.93
1	3h	200	THR	O-C-N	-6.22	115.53	122.12
1	3A	170	LYS	CG-CD-CE	6.22	125.60	111.30
1	3D	195	ASN	CA-CB-CG	6.22	118.82	112.60
1	41	164	TYR	CB-CG-CD2	-6.22	111.47	120.80
1	4k	37	ILE	CA-C-N	6.22	127.61	119.84
1	4k	37	ILE	C-N-CA	6.22	127.61	119.84
1	4J	197	ASP	CA-C-N	6.22	128.61	120.28
1	4J	197	ASP	C-N-CA	6.22	128.61	120.28
1	5m	111	LEU	N-CA-C	6.22	118.06	111.28
1	5z	22	ALA	O-C-N	-6.22	115.53	122.12
1	63	31	ALA	CA-C-O	6.22	127.07	119.11
1	66	115	ILE	CA-C-N	6.22	127.01	119.99
1	66	115	ILE	C-N-CA	6.22	127.01	119.99
1	6S	86	VAL	CA-C-O	-6.22	114.09	120.25
1	6T	166	ASP	CA-CB-CG	6.22	118.82	112.60
1	6Z	201	ILE	N-CA-C	6.22	117.00	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	76	46	GLY	CA-C-N	6.22	129.54	120.71
1	76	46	GLY	C-N-CA	6.22	129.54	120.71
1	7n	43	LEU	CA-C-O	6.22	127.02	119.31
1	7t	95	GLN	CA-C-N	6.22	129.54	120.71
1	7t	95	GLN	C-N-CA	6.22	129.54	120.71
1	8n	143	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	8F	76	GLU	N-CA-C	6.22	118.14	111.36
1	8I	211	LEU	CA-C-N	6.22	128.90	120.38
1	8I	211	LEU	C-N-CA	6.22	128.90	120.38
1	8J	42	ALA	O-C-N	-6.22	115.06	122.15
1	8V	161	PHE	CA-C-O	6.22	127.07	119.11
1	9D	212	GLU	N-CA-CB	6.22	119.26	110.12
1	9E	120	HIS	CA-CB-CG	6.22	120.02	113.80
1	9F	94	GLY	CA-C-O	6.22	125.88	119.10
1	9S	182	LYS	CA-C-N	6.22	128.93	120.54
1	9S	182	LYS	C-N-CA	6.22	128.93	120.54
1	a4	157	PRO	N-CA-CB	-6.22	97.54	103.51
1	b9	114	GLN	CA-C-O	-6.22	114.29	120.82
1	bh	67	GLN	CA-CB-CG	6.22	126.53	114.10
1	bk	15	ILE	N-CA-C	6.22	117.32	108.93
1	bI	104	ILE	CA-C-O	6.22	127.42	120.95
1	bK	185	MET	N-CA-C	-6.22	104.42	111.07
1	1b	142	VAL	N-CA-CB	6.22	117.41	110.51
1	c2	159	GLU	N-CA-C	6.22	118.62	109.42
1	c3	51	ASP	CA-CB-CG	6.22	118.82	112.60
1	cj	28	GLU	O-C-N	-6.22	115.06	122.15
1	cF	72	THR	N-CA-C	6.22	118.06	111.28
1	cI	146	SER	CB-CA-C	6.22	119.34	109.52
1	cL	187	GLU	CA-C-N	6.22	129.10	121.64
1	cL	187	GLU	C-N-CA	6.22	129.10	121.64
1	cQ	16	SER	CA-C-N	6.22	125.90	119.56
1	cQ	16	SER	C-N-CA	6.22	125.90	119.56
1	cS	146	SER	N-CA-C	6.22	119.15	110.20
1	d9	97	ARG	O-C-N	-6.22	115.31	122.89
1	1j	171	THR	CA-C-N	6.22	129.23	120.28
1	1j	171	THR	C-N-CA	6.22	129.23	120.28
1	dk	197	ASP	CA-CB-CG	-6.22	106.38	112.60
1	dR	43	LEU	N-CA-C	6.22	118.06	111.28
1	ee	12	HIS	CG-CD2-NE2	6.22	113.42	107.20
1	ee	106	GLY	CA-C-N	6.22	128.61	120.28
1	ee	106	GLY	C-N-CA	6.22	128.61	120.28
1	ev	82	ARG	NE-CZ-NH1	6.22	127.72	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	17	PRO	CB-CA-C	6.22	121.19	112.11
1	1s	82	ARG	NE-CZ-NH1	6.22	127.72	121.50
1	fg	146	SER	N-CA-C	6.22	118.43	109.48
1	g2	120	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
1	e	119	THR	O-C-N	-6.22	114.85	122.25
1	X	57	ASN	OD1-CG-ND2	-6.22	116.38	122.60
1	gm	33	SER	CA-C-N	6.21	126.33	119.87
1	gm	33	SER	C-N-CA	6.21	126.33	119.87
1	gD	110	THR	O-C-N	-6.21	115.11	123.19
1	1F	135	ILE	N-CA-CB	6.21	117.82	110.55
1	gX	223	GLY	CA-C-N	6.21	127.61	119.84
1	gX	223	GLY	C-N-CA	6.21	127.61	119.84
1	h3	136	LEU	CA-C-N	6.21	127.01	119.99
1	h3	136	LEU	C-N-CA	6.21	127.01	119.99
1	1J	195	ASN	CA-CB-CG	6.21	118.81	112.60
1	hQ	84	HIS	CG-CD2-NE2	6.21	113.41	107.20
1	if	62	HIS	CB-CG-ND1	-6.21	113.38	122.70
1	ih	206	GLY	O-C-N	6.21	127.98	121.77
1	it	196	PRO	CA-C-N	6.21	129.08	120.63
1	it	196	PRO	C-N-CA	6.21	129.08	120.63
1	ix	70	LYS	CA-C-N	6.21	128.61	120.28
1	ix	70	LYS	C-N-CA	6.21	128.61	120.28
1	iS	28	GLU	N-CA-C	6.21	118.05	111.28
1	j2	112	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	ja	99	PRO	CA-C-O	-6.21	114.55	121.32
1	jf	173	ARG	CB-CA-C	6.21	121.42	110.85
1	jw	216	THR	CA-C-O	6.21	127.31	119.61
1	jz	143	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	jT	165	VAL	O-C-N	6.21	128.67	121.96
1	jX	14	ALA	N-CA-C	6.21	119.00	110.24
1	kk	68	MET	CA-C-N	6.21	128.93	120.54
1	kk	68	MET	C-N-CA	6.21	128.93	120.54
1	kn	120	HIS	CE1-NE2-CD2	-6.21	102.78	109.00
1	kr	223	GLY	CA-C-N	6.21	127.61	119.84
1	kr	223	GLY	C-N-CA	6.21	127.61	119.84
1	ks	31	ALA	CA-C-O	6.21	129.40	120.51
1	kC	120	HIS	CA-CB-CG	6.21	120.01	113.80
1	23	226	HIS	CA-C-N	6.21	128.93	120.54
1	23	226	HIS	C-N-CA	6.21	128.93	120.54
1	kQ	152	ASP	CA-C-N	6.21	133.16	121.97
1	kQ	152	ASP	C-N-CA	6.21	133.16	121.97
1	26	33	SER	CA-C-N	6.21	127.61	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	26	33	SER	C-N-CA	6.21	127.61	119.84
1	la	30	LYS	CA-C-N	6.21	129.45	120.38
1	la	30	LYS	C-N-CA	6.21	129.45	120.38
1	lB	167	ARG	CA-C-N	6.21	128.52	120.44
1	lB	167	ARG	C-N-CA	6.21	128.52	120.44
1	2m	118	MET	CG-SD-CE	-6.21	87.23	100.90
1	2u	124	ILE	N-CA-CB	6.21	118.91	111.08
1	3b	129	ILE	CA-C-N	6.21	128.52	120.44
1	3b	129	ILE	C-N-CA	6.21	128.52	120.44
1	3f	69	LEU	N-CA-C	-6.21	104.59	111.36
1	3y	195	ASN	CA-CB-CG	-6.21	106.39	112.60
1	3N	144	MET	N-CA-C	6.21	118.14	111.36
1	4d	173	ARG	N-CA-C	6.21	118.86	111.71
1	4h	174	ALA	N-CA-C	6.21	117.72	111.07
1	4J	139	ASN	N-CA-CB	6.21	119.36	110.16
1	4K	183	ASN	N-CA-C	6.21	118.05	111.28
1	54	1	PRO	N-CA-CB	6.21	109.84	103.00
1	5e	82	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	5f	84	HIS	CA-CB-CG	-6.21	107.59	113.80
1	5h	71	GLU	O-C-N	6.21	129.91	122.27
1	5h	190	LEU	N-CA-C	6.21	118.05	111.28
1	5A	182	LYS	CA-C-N	6.21	129.76	120.31
1	5A	182	LYS	C-N-CA	6.21	129.76	120.31
1	5L	49	PRO	CA-C-N	-6.21	111.47	120.29
1	5L	49	PRO	C-N-CA	-6.21	111.47	120.29
1	6k	82	ARG	NE-CZ-NH1	6.21	127.72	121.50
1	6L	56	LEU	N-CA-C	6.21	117.72	111.07
1	6X	136	LEU	CA-C-O	6.21	127.14	120.55
1	6Y	156	GLY	O-C-N	-6.21	115.56	121.77
1	7N	161	PHE	N-CA-C	6.21	117.72	111.07
1	7S	27	VAL	O-C-N	-6.21	115.80	121.89
1	7T	195	ASN	CA-C-O	-6.21	113.91	119.75
1	86	101	GLY	CA-C-N	6.21	128.61	120.28
1	86	101	GLY	C-N-CA	6.21	128.61	120.28
1	87	181	VAL	N-CA-C	6.21	116.39	110.42
1	8r	183	ASN	O-C-N	-6.21	115.63	122.09
1	8A	33	SER	CA-C-N	6.21	125.90	119.56
1	8A	33	SER	C-N-CA	6.21	125.90	119.56
1	95	81	ASP	CA-C-N	6.21	129.11	120.29
1	95	81	ASP	C-N-CA	6.21	129.11	120.29
1	9k	62	HIS	CB-CG-ND1	-6.21	113.38	122.70
1	9u	226	HIS	CA-CB-CG	6.21	120.01	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9K	131	LYS	N-CA-C	6.21	118.86	111.71
1	a5	184	TRP	CA-C-O	-6.21	114.30	120.70
1	13	136	LEU	CA-C-O	6.21	127.12	120.10
1	aG	43	LEU	O-C-N	-6.21	115.53	122.12
1	aR	163	ASP	O-C-N	-6.21	115.53	122.12
1	be	92	GLU	CA-C-O	6.21	125.41	120.19
1	bg	132	ARG	N-CA-C	6.21	118.05	111.28
1	bt	197	ASP	CA-C-O	6.21	127.01	120.42
1	bw	92	GLU	CA-C-N	6.21	127.61	119.84
1	bw	92	GLU	C-N-CA	6.21	127.61	119.84
1	bI	132	ARG	CB-CA-C	-6.21	100.47	110.79
1	bK	33	SER	N-CA-CB	-6.21	103.46	111.35
1	bL	212	GLU	CA-C-O	6.21	127.14	120.55
1	bP	128	GLU	N-CA-C	6.21	118.05	111.28
1	ca	36	VAL	CA-C-O	6.21	127.22	120.57
1	cp	146	SER	N-CA-C	6.21	116.75	109.60
1	cE	216	THR	CA-C-N	6.21	129.53	120.71
1	cE	216	THR	C-N-CA	6.21	129.53	120.71
1	cX	35	GLU	CA-C-O	6.21	127.06	119.11
1	dd	187	GLU	CA-C-O	6.21	127.12	119.97
1	dg	189	LEU	CA-C-N	6.21	128.61	120.28
1	dg	189	LEU	C-N-CA	6.21	128.61	120.28
1	dx	23	TRP	CB-CG-CD2	6.21	135.50	126.80
1	dy	145	TYR	CB-CG-CD2	6.21	130.12	120.80
1	dV	197	ASP	CA-C-O	6.21	127.12	119.97
1	1o	72	THR	N-CA-CB	6.21	119.26	110.12
1	e4	51	ASP	CA-C-O	6.21	127.01	120.42
1	e5	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	er	56	LEU	CA-C-O	-6.21	113.08	120.10
1	eA	135	ILE	N-CA-C	6.21	116.96	110.62
1	eA	217	ALA	N-CA-C	6.21	118.57	110.43
1	eI	73	ILE	CA-C-N	6.21	128.52	120.44
1	eI	73	ILE	C-N-CA	6.21	128.52	120.44
1	eO	221	VAL	O-C-N	-6.21	116.04	122.63
1	eR	159	GLU	N-CA-C	6.21	118.53	109.71
1	eV	32	PHE	CA-CB-CG	-6.21	107.59	113.80
1	1v	9	GLN	CA-C-N	6.21	129.66	120.90
1	1v	9	GLN	C-N-CA	6.21	129.66	120.90
1	fk	128	GLU	O-C-N	-6.21	114.15	122.23
1	fp	84	HIS	O-C-N	-6.21	117.11	121.65
1	g2	23	TRP	CB-CG-CD2	-6.21	118.10	126.80
1	0	195	ASN	CA-C-N	6.21	127.61	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	0	195	ASN	C-N-CA	6.21	127.61	119.84
1	h	139	ASN	O-C-N	-6.21	115.38	122.09
1	k	92	GLU	CA-C-N	6.21	127.61	119.84
1	k	92	GLU	C-N-CA	6.21	127.61	119.84
1	3	226	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	U	69	LEU	CB-CA-C	6.21	120.64	110.88
1	ga	175	GLU	N-CA-C	6.21	118.57	110.43
1	gO	89	GLY	CA-C-N	6.21	127.61	119.84
1	gO	89	GLY	C-N-CA	6.21	127.61	119.84
1	hH	13	GLN	N-CA-C	-6.21	99.78	109.72
1	hS	156	GLY	CA-C-N	6.21	127.61	119.84
1	hS	156	GLY	C-N-CA	6.21	127.61	119.84
1	jp	86	VAL	CA-C-N	6.21	131.18	122.36
1	jp	86	VAL	C-N-CA	6.21	131.18	122.36
1	jq	51	ASP	CA-CB-CG	6.21	118.81	112.60
1	jO	190	LEU	N-CA-C	6.21	117.72	111.07
1	l4	202	LEU	N-CA-C	6.21	118.05	111.28
1	lR	117	TRP	CB-CG-CD2	6.21	135.50	126.80
1	2e	76	GLU	O-C-N	-6.21	115.53	122.12
1	2E	154	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	2Y	51	ASP	O-C-N	-6.21	115.53	122.12
1	32	62	HIS	N-CA-C	6.21	120.13	111.74
1	3M	107	THR	CA-C-O	-6.21	113.96	120.55
1	41	120	HIS	O-C-N	-6.21	115.48	122.75
1	4v	19	THR	N-CA-CB	6.21	119.79	110.22
1	4Y	66	MET	N-CA-CB	6.21	119.38	110.06
1	5o	211	LEU	N-CA-CB	6.21	119.25	110.12
1	5J	3	VAL	N-CA-C	-6.21	99.47	108.17
1	66	200	THR	CA-C-O	-6.21	113.83	120.42
1	69	161	PHE	CA-CB-CG	-6.21	107.59	113.80
1	6z	167	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	6I	53	ASN	O-C-N	-6.21	115.53	122.12
1	6Y	203	LYS	CG-CD-CE	6.21	125.59	111.30
1	76	165	VAL	O-C-N	-6.21	115.73	121.94
1	7Q	166	ASP	CA-C-O	-6.21	114.30	120.82
1	81	16	SER	CA-C-O	-6.21	113.91	119.75
1	81	39	MET	N-CA-CB	-6.21	101.00	110.01
1	8r	41	SER	O-C-N	-6.21	115.07	122.15
1	8y	154	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	8J	163	ASP	O-C-N	-6.21	114.63	122.27
1	96	58	THR	CA-CB-CG2	-6.21	99.94	110.50
1	9k	1	PRO	CA-N-CD	-6.21	103.30	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9s	43	LEU	O-C-N	-6.21	114.15	122.23
1	at	200	THR	CA-C-N	6.21	128.61	120.60
1	at	200	THR	C-N-CA	6.21	128.61	120.60
1	aE	114	GLN	N-CA-C	6.21	118.05	111.28
1	aS	97	ARG	CG-CD-NE	-6.21	98.33	112.00
1	aW	2	ILE	CA-C-O	-6.21	113.82	120.59
1	b7	108	THR	N-CA-C	-6.21	104.97	113.30
1	be	114	GLN	CA-C-N	6.21	128.39	120.56
1	be	114	GLN	C-N-CA	6.21	128.39	120.56
1	bh	33	SER	N-CA-C	-6.21	102.63	108.22
1	bq	215	MET	CA-C-N	6.21	129.11	120.29
1	bq	215	MET	C-N-CA	6.21	129.11	120.29
1	18	177	ALA	CA-C-N	6.21	129.95	120.82
1	18	177	ALA	C-N-CA	6.21	129.95	120.82
1	bA	88	ALA	CA-C-N	6.21	131.62	121.87
1	bA	88	ALA	C-N-CA	6.21	131.62	121.87
1	bJ	52	LEU	CA-C-N	6.21	128.61	120.28
1	bJ	52	LEU	C-N-CA	6.21	128.61	120.28
1	bZ	51	ASP	CA-CB-CG	-6.21	106.39	112.60
1	cg	101	GLY	CA-C-N	6.21	128.60	120.28
1	cg	101	GLY	C-N-CA	6.21	128.60	120.28
1	ck	52	LEU	N-CA-C	6.21	118.05	111.28
1	cA	162	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	cH	155	GLN	CA-C-N	6.21	131.62	121.87
1	cH	155	GLN	C-N-CA	6.21	131.62	121.87
1	cP	91	ILE	N-CA-C	6.21	118.86	111.09
1	dS	162	ARG	N-CA-C	6.21	117.72	111.07
1	dX	57	ASN	CA-CB-CG	6.21	118.81	112.60
1	ew	215	MET	CA-C-O	6.21	127.01	120.42
1	f4	188	THR	N-CA-C	6.21	118.05	111.28
1	fj	7	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	fx	115	ILE	O-C-N	-6.21	115.84	121.87
1	fL	39	MET	N-CA-C	6.21	118.85	111.33
1	fL	42	ALA	N-CA-C	6.21	118.05	111.28
1	u	21	ASN	CA-C-O	6.21	127.01	120.42
1	L	66	MET	O-C-N	-6.21	114.95	122.22
1	g9	98	GLU	CA-C-O	-6.21	114.23	119.76
1	gk	71	GLU	CA-C-O	-6.21	113.84	120.42
1	gn	132	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	gE	150	ILE	CB-CA-C	6.21	120.18	112.04
1	gH	135	ILE	N-CA-C	6.21	116.95	110.62
1	he	56	LEU	N-CA-C	6.21	118.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hD	140	LYS	N-CA-C	6.21	118.05	111.28
1	1L	7	GLN	N-CA-CB	6.21	119.87	110.30
1	hY	179	GLN	N-CA-C	6.21	118.05	111.28
1	i3	167	ARG	CA-C-N	6.21	128.85	120.65
1	i3	167	ARG	C-N-CA	6.21	128.85	120.65
1	ib	177	ALA	CA-C-O	6.21	127.72	120.89
1	id	112	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	ig	221	VAL	CA-C-N	6.21	133.58	121.41
1	ig	221	VAL	C-N-CA	6.21	133.58	121.41
1	ij	89	GLY	CA-C-N	6.21	127.60	119.84
1	ij	89	GLY	C-N-CA	6.21	127.60	119.84
1	iy	167	ARG	N-CA-C	6.21	119.03	111.82
1	iF	230	VAL	N-CA-CB	6.21	117.82	110.55
1	iI	92	GLU	N-CA-C	6.21	116.74	109.60
1	iR	168	PHE	O-C-N	-6.21	115.67	122.07
1	1T	149	SER	O-C-N	-6.21	115.81	123.33
1	jy	216	THR	CB-CA-C	-6.21	101.09	110.90
1	jA	178	SER	O-C-N	-6.21	114.87	122.82
1	jI	169	TYR	CA-C-N	6.21	129.45	120.38
1	jI	169	TYR	C-N-CA	6.21	129.45	120.38
1	jJ	144	MET	CA-CB-CG	6.21	126.52	114.10
1	jP	125	PRO	CA-C-N	6.21	130.49	120.30
1	jP	125	PRO	C-N-CA	6.21	130.49	120.30
1	1Y	51	ASP	N-CA-C	6.21	118.05	111.28
1	jX	33	SER	CA-C-N	6.21	127.60	119.84
1	jX	33	SER	C-N-CA	6.21	127.60	119.84
1	23	120	HIS	CA-CB-CG	6.21	120.01	113.80
1	kI	82	ARG	O-C-N	-6.21	114.11	122.43
1	kO	62	HIS	ND1-CG-CD2	6.21	112.31	106.10
1	kP	194	ALA	CA-C-N	6.21	130.10	120.60
1	kP	194	ALA	C-N-CA	6.21	130.10	120.60
1	kQ	198	CYS	CA-C-N	6.21	128.60	120.28
1	kQ	198	CYS	C-N-CA	6.21	128.60	120.28
1	ll	59	VAL	CA-CB-CG1	-6.21	99.84	110.40
1	ly	62	HIS	CA-CB-CG	-6.21	107.59	113.80
1	29	155	GLN	N-CA-C	6.21	119.37	110.24
1	lQ	125	PRO	CA-C-N	6.21	129.29	120.53
1	lQ	125	PRO	C-N-CA	6.21	129.29	120.53
1	2m	89	GLY	CA-C-N	6.21	126.12	119.85
1	2m	89	GLY	C-N-CA	6.21	126.12	119.85
1	2U	84	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	34	69	LEU	CA-C-N	6.21	128.60	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	69	LEU	C-N-CA	6.21	128.60	120.28
1	36	111	LEU	N-CA-C	6.21	117.72	111.07
1	37	220	GLY	CA-C-O	-6.21	111.36	119.44
1	39	125	PRO	N-CD-CG	6.21	112.52	103.20
1	3g	82	ARG	NH1-CZ-NH2	-6.21	111.22	119.30
1	3H	66	MET	CG-SD-CE	-6.21	87.23	100.90
1	3N	173	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	3O	13	GLN	CG-CD-OE1	6.21	133.22	120.80
1	3V	71	GLU	CA-C-N	6.21	128.60	120.28
1	3V	71	GLU	C-N-CA	6.21	128.60	120.28
1	3Y	100	ARG	CA-C-N	6.21	126.88	119.98
1	3Y	100	ARG	C-N-CA	6.21	126.88	119.98
1	44	199	LYS	CG-CD-CE	6.21	125.58	111.30
1	4y	133	TRP	CD2-CE2-CZ2	-6.21	116.19	122.40
1	4y	202	LEU	N-CA-C	6.21	118.05	111.28
1	4D	181	VAL	O-C-N	-6.21	115.82	121.91
1	4K	112	GLN	OE1-CD-NE2	6.21	128.81	122.60
1	5d	173	ARG	NE-CZ-NH1	-6.21	115.29	121.50
1	5g	26	VAL	N-CA-C	6.21	116.38	110.42
1	5R	161	PHE	CA-C-O	6.21	127.52	121.00
1	5S	197	ASP	CA-C-N	6.21	129.11	120.29
1	5S	197	ASP	C-N-CA	6.21	129.11	120.29
1	6g	211	LEU	N-CA-C	6.21	118.85	111.33
1	6o	162	ARG	N-CA-C	6.21	118.85	111.33
1	7g	206	GLY	CA-C-N	6.21	127.34	120.45
1	7g	206	GLY	C-N-CA	6.21	127.34	120.45
1	7l	173	ARG	N-CA-C	6.21	117.72	111.07
1	7q	100	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	7D	71	GLU	N-CA-C	6.21	118.84	111.33
1	7Q	80	TRP	CB-CG-CD1	-6.21	117.58	126.90
1	7R	72	THR	CA-C-N	6.21	129.24	120.42
1	7R	72	THR	C-N-CA	6.21	129.24	120.42
1	88	23	TRP	CA-CB-CG	6.21	125.40	113.60
1	8a	97	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	8b	113	GLU	CA-C-N	6.21	128.60	120.28
1	8b	113	GLU	C-N-CA	6.21	128.60	120.28
1	8r	134	ILE	N-CA-C	6.21	116.95	110.62
1	8v	82	ARG	O-C-N	-6.21	115.53	122.12
1	8K	35	GLU	N-CA-C	-6.21	105.19	112.89
1	9y	95	GLN	OE1-CD-NE2	6.21	128.81	122.60
1	aj	88	ALA	O-C-N	-6.21	114.33	122.59
1	aM	106	GLY	CA-C-N	6.21	129.11	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aM	106	GLY	C-N-CA	6.21	129.11	120.29
1	15	33	SER	CA-C-O	-6.21	114.91	120.56
1	b9	124	ILE	O-C-N	-6.21	114.02	121.10
1	bt	82	ARG	O-C-N	-6.21	113.89	122.46
1	bF	48	THR	N-CA-C	-6.21	102.26	110.40
1	c9	121	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	ca	227	LYS	O-C-N	-6.21	115.94	123.27
1	ch	195	ASN	CA-C-O	-6.21	114.24	120.64
1	cr	158	LYS	O-C-N	-6.21	114.67	122.19
1	1f	168	PHE	N-CA-C	6.21	118.56	111.11
1	cF	1	PRO	CA-N-CD	-6.21	103.30	112.00
1	cM	154	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	d7	84	HIS	CA-C-O	-6.21	113.94	121.15
1	dD	188	THR	O-C-N	-6.21	114.33	122.59
1	dH	39	MET	O-C-N	-6.21	115.54	122.12
1	dQ	229	ARG	NE-CZ-NH2	-6.21	113.61	119.20
1	e6	190	LEU	N-CA-C	6.21	121.62	111.37
1	ea	12	HIS	CB-CG-CD2	-6.21	123.13	131.20
1	eq	114	GLN	O-C-N	-6.21	115.67	122.07
1	f3	190	LEU	N-CA-C	6.21	117.72	111.07
1	fh	24	VAL	CA-C-N	6.21	129.11	120.29
1	fh	24	VAL	C-N-CA	6.21	129.11	120.29
1	fK	214	MET	N-CA-C	6.21	118.85	111.71
1	fY	63	GLN	CA-C-N	6.21	128.51	120.44
1	fY	63	GLN	C-N-CA	6.21	128.51	120.44
1	c	89	GLY	O-C-N	-6.21	115.56	121.77
1	g	124	ILE	O-C-N	-6.21	114.02	121.10
1	u	33	SER	CA-C-N	6.21	125.77	119.19
1	u	33	SER	C-N-CA	6.21	125.77	119.19
1	J	145	TYR	N-CA-CB	-6.21	101.30	110.49
1	T	88	ALA	N-CA-C	-6.21	105.28	112.92
1	7	85	PRO	N-CA-C	6.21	120.96	111.15
1	g8	4	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	gt	37	ILE	N-CA-C	6.21	119.80	112.35
1	gI	64	ALA	CA-C-O	6.21	127.13	120.55
1	gM	45	GLU	N-CA-CB	6.21	119.32	109.51
1	if	57	ASN	N-CA-C	6.21	120.69	113.18
1	iZ	188	THR	N-CA-C	6.21	120.05	112.23
1	j7	205	LEU	O-C-N	6.21	128.70	122.12
1	jp	24	VAL	CA-C-O	-6.21	114.49	120.95
1	jx	20	LEU	O-C-N	-6.21	115.54	122.12
1	jR	51	ASP	CA-CB-CG	-6.21	106.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	154	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	lw	80	TRP	N-CA-CB	-6.21	100.99	110.12
1	2J	220	GLY	N-CA-C	6.21	123.86	114.61
1	2P	86	VAL	CA-C-N	6.21	130.18	121.24
1	2P	86	VAL	C-N-CA	6.21	130.18	121.24
1	3d	110	THR	CA-C-N	6.21	128.51	120.44
1	3d	110	THR	C-N-CA	6.21	128.51	120.44
1	3B	91	ILE	N-CA-CB	6.21	120.56	110.13
1	4Q	228	ALA	CA-C-N	6.21	129.66	120.90
1	4Q	228	ALA	C-N-CA	6.21	129.66	120.90
1	4Z	66	MET	N-CA-C	6.21	118.84	111.33
1	5h	214	MET	O-C-N	-6.21	114.11	122.43
1	5t	3	VAL	N-CA-C	6.21	116.80	107.80
1	6b	132	ARG	N-CA-C	6.21	118.05	111.28
1	6w	53	ASN	O-C-N	-6.21	115.07	122.15
1	6R	80	TRP	N-CA-C	6.21	117.85	111.14
1	7h	162	ARG	CA-C-N	6.21	128.51	120.44
1	7h	162	ARG	C-N-CA	6.21	128.51	120.44
1	7s	17	PRO	CA-C-N	6.21	128.51	120.44
1	7s	17	PRO	C-N-CA	6.21	128.51	120.44
1	7N	159	GLU	CA-C-O	6.21	126.18	120.09
1	8e	141	ILE	O-C-N	-6.21	115.85	121.87
1	8i	25	LYS	CA-C-O	6.21	127.00	120.42
1	8K	34	PRO	N-CA-C	-6.21	108.22	114.68
1	8U	169	TYR	O-C-N	6.21	128.70	122.12
1	ao	164	TYR	CA-C-O	-6.21	113.84	120.42
1	aE	9	GLN	CA-C-N	6.21	129.53	120.71
1	aE	9	GLN	C-N-CA	6.21	129.53	120.71
1	aQ	65	ALA	N-CA-C	6.21	118.13	111.36
1	b4	175	GLU	O-C-N	-6.21	115.35	122.68
1	bn	229	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	br	133	TRP	CD2-CE3-CZ3	6.21	126.67	118.60
1	ce	121	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	cg	210	THR	OG1-CB-CG2	-6.21	96.88	109.30
1	de	171	THR	CA-C-O	-6.21	113.97	120.55
1	dm	198	CYS	CA-C-O	6.21	127.13	120.24
1	dr	89	GLY	CA-C-O	-6.21	115.98	122.38
1	e5	194	ALA	N-CA-C	6.21	118.80	110.35
1	ef	117	TRP	CA-C-N	6.21	128.89	120.38
1	ef	117	TRP	C-N-CA	6.21	128.89	120.38
1	eH	195	ASN	CA-C-N	6.21	127.60	119.84
1	eH	195	ASN	C-N-CA	6.21	127.60	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eN	142	VAL	CA-C-N	6.21	128.60	120.28
1	eN	142	VAL	C-N-CA	6.21	128.60	120.28
1	1x	57	ASN	O-C-N	-6.21	115.07	122.15
1	fE	159	GLU	CA-C-N	6.21	126.18	119.78
1	fE	159	GLU	C-N-CA	6.21	126.18	119.78
1	fV	63	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	fW	16	SER	CA-C-N	6.21	127.60	119.84
1	fW	16	SER	C-N-CA	6.21	127.60	119.84
1	h	36	VAL	O-C-N	-6.21	115.73	121.94
1	w	15	ILE	CA-C-N	6.21	128.99	120.67
1	w	15	ILE	C-N-CA	6.21	128.99	120.67
1	M	26	VAL	N-CA-C	6.21	116.95	110.62
1	R	154	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	g9	172	LEU	CA-C-N	6.21	128.88	120.44
1	g9	172	LEU	C-N-CA	6.21	128.88	120.44
1	ga	166	ASP	CB-CA-C	6.21	120.75	110.81
1	go	185	MET	N-CA-C	6.21	118.84	111.33
1	h0	84	HIS	CA-C-N	6.21	126.23	119.90
1	h0	84	HIS	C-N-CA	6.21	126.23	119.90
1	h8	41	SER	CA-C-O	6.21	127.13	120.55
1	hk	97	ARG	CA-C-N	6.21	129.89	121.20
1	hk	97	ARG	C-N-CA	6.21	129.89	121.20
1	ho	167	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	1J	31	ALA	N-CA-CB	-6.21	100.00	110.49
1	hx	12	HIS	N-CA-CB	6.21	119.10	109.97
1	hz	63	GLN	N-CA-C	6.21	119.33	111.69
1	1K	108	THR	N-CA-C	6.21	120.56	112.92
1	id	72	THR	CA-CB-OG1	-6.21	100.29	109.60
1	io	103	ASP	CA-C-N	6.21	128.97	120.46
1	io	103	ASP	C-N-CA	6.21	128.97	120.46
1	is	16	SER	N-CA-C	6.21	118.63	109.50
1	iy	226	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	iH	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	iN	210	THR	N-CA-C	6.21	118.31	110.24
1	iT	100	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	iZ	120	HIS	CB-CG-CD2	-6.21	123.13	131.20
1	jb	202	LEU	N-CA-C	6.21	118.05	111.28
1	1U	177	ALA	CA-C-N	6.21	130.12	120.75
1	1U	177	ALA	C-N-CA	6.21	130.12	120.75
1	je	146	SER	CA-C-O	-6.21	112.65	118.73
1	jo	141	ILE	CA-CB-CG1	6.21	120.96	110.40
1	jo	186	THR	N-CA-C	6.21	118.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	136	LEU	N-CA-C	6.21	118.84	111.33
1	jB	152	ASP	CA-C-N	6.21	129.76	120.69
1	jB	152	ASP	C-N-CA	6.21	129.76	120.69
1	k0	40	PHE	O-C-N	-6.21	115.54	122.12
1	k2	23	TRP	CA-C-N	6.21	128.97	120.46
1	k2	23	TRP	C-N-CA	6.21	128.97	120.46
1	ka	22	ALA	O-C-N	-6.21	115.54	122.12
1	kb	1	PRO	N-CD-CG	-6.21	93.89	103.20
1	kc	93	PRO	CA-C-N	6.21	130.03	123.08
1	kc	93	PRO	C-N-CA	6.21	130.03	123.08
1	ki	17	PRO	CA-C-N	6.21	129.42	120.79
1	ki	17	PRO	C-N-CA	6.21	129.42	120.79
1	kq	164	TYR	N-CA-C	-6.21	104.59	111.36
1	kx	75	GLU	N-CA-C	6.21	117.71	111.07
1	kN	185	MET	CG-SD-CE	-6.21	87.24	100.90
1	kS	170	LYS	CA-C-N	6.21	128.51	120.44
1	kS	170	LYS	C-N-CA	6.21	128.51	120.44
1	lc	189	LEU	N-CA-C	6.21	118.05	111.28
1	ln	201	ILE	O-C-N	-6.21	115.83	121.91
1	lr	107	THR	O-C-N	-6.21	113.95	122.46
1	2c	210	THR	O-C-N	-6.21	115.49	122.75
1	2G	51	ASP	CA-C-N	6.21	128.60	120.28
1	2G	51	ASP	C-N-CA	6.21	128.60	120.28
1	2N	86	VAL	CA-CB-CG2	6.21	120.95	110.40
1	30	89	GLY	CA-C-N	6.21	126.22	119.89
1	30	89	GLY	C-N-CA	6.21	126.22	119.89
1	33	124	ILE	O-C-N	-6.21	115.35	121.12
1	3m	143	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	3H	98	GLU	CB-CG-CD	6.21	123.16	112.60
1	3K	221	VAL	N-CA-C	-6.21	106.94	112.90
1	3P	185	MET	CA-C-O	-6.21	114.30	120.82
1	3Z	185	MET	CG-SD-CE	-6.21	87.24	100.90
1	44	60	GLY	O-C-N	-6.21	114.63	122.70
1	4k	217	ALA	CA-C-N	6.21	131.18	122.36
1	4k	217	ALA	C-N-CA	6.21	131.18	122.36
1	4o	226	HIS	CB-CG-CD2	6.21	139.27	131.20
1	4s	33	SER	CA-C-N	6.21	125.94	119.05
1	4s	33	SER	C-N-CA	6.21	125.94	119.05
1	4B	92	GLU	CA-C-O	-6.21	113.58	119.91
1	4D	10	MET	O-C-N	-6.21	115.69	123.01
1	4U	114	GLN	CA-C-N	6.21	128.97	120.46
1	4U	114	GLN	C-N-CA	6.21	128.97	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	193	ASN	O-C-N	-6.21	114.38	122.39
1	5h	183	ASN	CA-CB-CG	6.21	118.81	112.60
1	5z	46	GLY	CA-C-O	6.21	127.44	119.68
1	5K	68	MET	N-CA-C	6.21	117.71	111.07
1	5Q	174	ALA	CA-C-N	6.21	129.69	120.87
1	5Q	174	ALA	C-N-CA	6.21	129.69	120.87
1	60	179	GLN	N-CA-C	6.21	118.05	111.28
1	6J	162	ARG	N-CA-C	6.21	118.05	111.28
1	7d	204	ALA	N-CA-C	6.21	118.05	111.28
1	7j	196	PRO	CA-C-N	6.21	131.09	120.72
1	7j	196	PRO	C-N-CA	6.21	131.09	120.72
1	7p	12	HIS	N-CA-CB	6.21	120.69	110.69
1	7J	139	ASN	CA-CB-CG	6.21	118.81	112.60
1	7N	183	ASN	N-CA-C	6.21	117.71	111.07
1	7W	158	LYS	CA-CB-CG	-6.21	101.69	114.10
1	8b	186	THR	N-CA-CB	6.21	119.90	110.28
1	8p	146	SER	O-C-N	-6.21	113.19	121.64
1	8r	183	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	8N	72	THR	N-CA-C	6.21	118.05	111.28
1	9c	78	ALA	CA-C-N	6.21	128.60	120.28
1	9c	78	ALA	C-N-CA	6.21	128.60	120.28
1	a7	75	GLU	CA-C-N	6.21	128.60	120.28
1	a7	75	GLU	C-N-CA	6.21	128.60	120.28
1	ap	138	LEU	N-CA-CB	6.21	119.35	110.16
1	az	106	GLY	O-C-N	-6.21	116.33	122.41
1	aC	118	MET	CA-C-O	6.21	127.11	119.79
1	aF	74	ASN	OD1-CG-ND2	-6.21	116.39	122.60
1	14	78	ALA	CA-C-O	6.21	127.00	120.42
1	aO	160	PRO	N-CA-CB	6.21	108.53	103.32
1	b3	195	ASN	O-C-N	-6.21	114.48	121.43
1	ba	191	VAL	CA-C-N	6.21	131.23	120.68
1	ba	191	VAL	C-N-CA	6.21	131.23	120.68
1	bw	190	LEU	N-CA-C	6.21	118.84	111.33
1	bX	141	ILE	O-C-N	-6.21	115.85	121.87
1	bY	132	ARG	NE-CZ-NH1	-6.21	115.29	121.50
1	cc	135	ILE	CA-C-N	6.21	129.75	120.31
1	cc	135	ILE	C-N-CA	6.21	129.75	120.31
1	1g	103	ASP	CA-C-O	6.21	127.11	119.97
1	d1	191	VAL	CB-CA-C	-6.21	104.02	111.97
1	d4	130	TYR	N-CA-C	6.21	118.05	111.28
1	1j	163	ASP	CA-C-N	6.21	128.89	120.38
1	1j	163	ASP	C-N-CA	6.21	128.89	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1j	195	ASN	CA-C-O	-6.21	113.55	120.25
1	ds	63	GLN	CA-C-N	6.21	128.51	120.44
1	ds	63	GLN	C-N-CA	6.21	128.51	120.44
1	dV	91	ILE	CA-C-N	6.21	129.02	120.39
1	dV	91	ILE	C-N-CA	6.21	129.02	120.39
1	1p	107	THR	N-CA-C	6.21	119.02	111.82
1	ec	146	SER	N-CA-C	6.21	123.53	109.81
1	eI	180	GLU	O-C-N	-6.21	115.07	122.15
1	eO	148	THR	N-CA-C	-6.21	100.17	108.74
1	eR	194	ALA	CA-C-O	6.21	128.02	121.19
1	eT	167	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	eT	199	LYS	O-C-N	-6.21	115.67	122.07
1	f4	19	THR	O-C-N	-6.21	115.07	122.15
1	fm	19	THR	CA-C-N	6.21	128.51	120.44
1	fm	19	THR	C-N-CA	6.21	128.51	120.44
1	fq	133	TRP	CA-C-O	6.21	127.13	120.55
1	fq	168	PHE	CA-C-N	6.21	128.51	120.44
1	fq	168	PHE	C-N-CA	6.21	128.51	120.44
1	fN	143	ARG	NH1-CZ-NH2	-6.21	111.23	119.30
1	fS	113	GLU	O-C-N	-6.21	115.68	122.07
1	fS	130	TYR	CA-C-N	6.21	128.60	120.28
1	fS	130	TYR	C-N-CA	6.21	128.60	120.28
1	1A	109	SER	CA-C-O	-6.21	114.18	121.44
1	0	139	ASN	N-CA-C	6.21	118.05	111.28
1	V	112	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	gd	223	GLY	CA-C-N	6.21	126.22	119.89
1	gd	223	GLY	C-N-CA	6.21	126.22	119.89
1	1C	4	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	gn	50	GLN	N-CA-C	6.21	118.05	111.28
1	gp	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	gq	132	ARG	O-C-N	-6.21	115.39	122.09
1	gZ	98	GLU	CA-C-N	6.21	126.72	120.14
1	gZ	98	GLU	C-N-CA	6.21	126.72	120.14
1	h1	138	LEU	N-CA-C	6.21	117.71	111.07
1	h2	26	VAL	N-CA-C	6.21	116.69	110.23
1	h5	28	GLU	N-CA-C	6.21	118.56	111.11
1	1J	64	ALA	CA-C-N	6.21	128.60	120.28
1	1J	64	ALA	C-N-CA	6.21	128.60	120.28
1	1J	170	LYS	CA-C-O	6.21	127.13	120.55
1	id	52	LEU	CA-C-N	6.21	128.60	120.28
1	id	52	LEU	C-N-CA	6.21	128.60	120.28
1	1P	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	216	THR	CA-C-O	6.21	126.50	119.18
1	j3	208	ALA	CB-CA-C	-6.21	100.70	110.94
1	j4	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	ji	184	TRP	N-CA-C	6.21	118.05	111.28
1	jl	62	HIS	N-CA-C	6.21	119.95	111.39
1	1W	132	ARG	NE-CZ-NH2	6.21	124.79	119.20
1	jx	63	GLN	N-CA-C	6.21	120.59	112.89
1	jx	124	ILE	CA-C-O	-6.21	114.53	119.25
1	jz	197	ASP	N-CA-C	-6.21	104.59	111.36
1	jD	15	ILE	N-CA-CB	6.21	120.56	110.13
1	jE	4	GLN	N-CA-CB	6.21	120.98	110.49
1	jH	15	ILE	N-CA-C	6.21	117.75	109.37
1	21	120	HIS	N-CA-CB	6.21	119.85	110.42
1	kU	170	LYS	CA-C-N	6.21	128.60	120.28
1	kU	170	LYS	C-N-CA	6.21	128.60	120.28
1	l1	224	PRO	N-CA-CB	-6.21	97.60	103.19
1	lg	115	ILE	CA-C-N	6.21	127.00	119.99
1	lg	115	ILE	C-N-CA	6.21	127.00	119.99
1	lk	63	GLN	N-CA-C	6.21	118.56	111.11
1	lz	109	SER	CA-C-O	6.21	127.15	120.32
1	lF	20	LEU	N-CA-C	6.21	119.33	111.69
1	2s	214	MET	N-CA-C	6.21	118.05	111.28
1	31	141	ILE	N-CA-C	6.21	116.38	110.42
1	39	149	SER	CB-CA-C	6.21	120.02	109.72
1	3c	211	LEU	N-CA-C	6.21	118.05	111.28
1	3j	155	GLN	N-CA-C	6.21	118.31	110.24
1	4n	48	THR	CA-C-O	-6.21	114.04	120.87
1	4O	95	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	52	30	LYS	O-C-N	-6.21	115.80	122.19
1	5a	32	PHE	CA-CB-CG	-6.21	107.59	113.80
1	5i	166	ASP	CA-C-N	6.21	128.92	120.54
1	5i	166	ASP	C-N-CA	6.21	128.92	120.54
1	5n	62	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	5B	24	VAL	N-CA-C	6.21	116.95	110.62
1	5E	19	THR	CA-C-O	6.21	127.11	120.10
1	5K	82	ARG	N-CA-C	6.21	118.05	111.28
1	5K	148	THR	CA-C-N	6.21	129.65	120.90
1	5K	148	THR	C-N-CA	6.21	129.65	120.90
1	61	135	ILE	CA-C-N	6.21	128.51	120.44
1	61	135	ILE	C-N-CA	6.21	128.51	120.44
1	6G	217	ALA	N-CA-C	6.21	119.35	110.10
1	6I	78	ALA	CA-C-N	6.21	128.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	78	ALA	C-N-CA	6.21	128.51	120.44
1	73	52	LEU	N-CA-C	6.21	117.71	111.07
1	73	80	TRP	CE3-CZ3-CH2	6.21	129.17	121.10
1	74	23	TRP	N-CA-C	6.21	118.05	111.28
1	7i	133	TRP	CG-CD2-CE3	-6.21	127.69	133.90
1	7l	40	PHE	CA-CB-CG	6.21	120.01	113.80
1	7v	5	ASN	CB-CA-C	-6.21	109.43	116.63
1	7Z	189	LEU	N-CA-CB	6.21	119.01	110.01
1	83	16	SER	CA-C-O	-6.21	115.01	120.60
1	87	104	ILE	CA-CB-CG1	6.21	120.95	110.40
1	8f	128	GLU	CB-CA-C	-6.21	101.14	110.88
1	8E	191	VAL	O-C-N	-6.21	115.85	121.87
1	97	76	GLU	CA-C-N	6.21	128.60	120.28
1	97	76	GLU	C-N-CA	6.21	128.60	120.28
1	9b	18	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	9A	78	ALA	O-C-N	-6.21	115.54	122.12
1	9C	144	MET	N-CA-CB	-6.21	100.97	110.16
1	9D	210	THR	O-C-N	-6.21	115.54	122.86
1	9E	84	HIS	CB-CG-CD2	-6.21	123.13	131.20
1	9I	230	VAL	N-CA-C	-6.21	107.45	113.53
1	9J	23	TRP	CA-C-O	6.21	127.00	119.31
1	9K	41	SER	N-CA-CB	6.21	119.01	110.01
1	9L	70	LYS	N-CA-C	6.21	117.71	111.07
1	9T	39	MET	N-CA-C	6.21	118.56	111.11
1	10	116	GLY	CA-C-N	6.21	128.88	120.44
1	10	116	GLY	C-N-CA	6.21	128.88	120.44
1	bm	213	GLU	N-CA-C	6.21	117.71	111.07
1	br	55	MET	CA-C-N	6.21	129.44	120.38
1	br	55	MET	C-N-CA	6.21	129.44	120.38
1	bt	167	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	bC	32	PHE	CA-CB-CG	-6.21	107.59	113.80
1	1e	46	GLY	CA-C-N	6.21	129.68	120.87
1	1e	46	GLY	C-N-CA	6.21	129.68	120.87
1	cC	75	GLU	CB-CA-C	6.21	121.09	110.79
1	cD	48	THR	CA-C-N	6.21	127.60	119.84
1	cD	48	THR	C-N-CA	6.21	127.60	119.84
1	cJ	90	PRO	CA-C-N	6.21	128.96	120.46
1	cJ	90	PRO	C-N-CA	6.21	128.96	120.46
1	dd	29	GLU	N-CA-C	6.21	117.71	111.07
1	dB	38	PRO	CA-C-N	6.21	128.60	120.28
1	dB	38	PRO	C-N-CA	6.21	128.60	120.28
1	dS	37	ILE	CA-C-N	6.21	125.43	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dS	37	ILE	C-N-CA	6.21	125.43	118.97
1	e7	125	PRO	O-C-N	-6.21	114.81	122.26
1	ec	32	PHE	CA-CB-CG	-6.21	107.59	113.80
1	1q	142	VAL	N-CA-C	6.21	116.88	110.36
1	eq	131	LYS	CA-C-N	6.21	128.84	120.65
1	eq	131	LYS	C-N-CA	6.21	128.84	120.65
1	er	171	THR	O-C-N	-6.21	115.54	122.12
1	et	86	VAL	N-CA-C	6.21	118.39	109.51
1	eB	2	ILE	CA-C-O	6.21	126.39	120.25
1	f7	101	GLY	CA-C-N	6.21	129.74	120.31
1	f7	101	GLY	C-N-CA	6.21	129.74	120.31
1	f7	198	CYS	O-C-N	-6.21	115.68	122.07
1	fp	168	PHE	CA-CB-CG	6.21	120.01	113.80
1	fC	200	THR	CA-C-N	6.21	128.38	120.56
1	fC	200	THR	C-N-CA	6.21	128.38	120.56
1	fO	226	HIS	CG-CD2-NE2	6.21	113.41	107.20
1	fU	84	HIS	CG-CD2-NE2	6.21	113.41	107.20
1	c	120	HIS	CB-CG-ND1	6.21	132.01	122.70
1	h	218	CYS	CA-C-N	6.21	129.65	120.90
1	h	218	CYS	C-N-CA	6.21	129.65	120.90
1	A	45	GLU	CA-C-N	6.21	130.96	120.91
1	A	45	GLU	C-N-CA	6.21	130.96	120.91
1	H	120	HIS	CE1-NE2-CD2	-6.21	102.79	109.00
1	L	65	ALA	N-CA-CB	-6.21	100.66	110.28
1	P	55	MET	CA-C-O	6.21	127.13	120.55
1	gG	104	ILE	N-CA-C	6.21	116.95	110.62
1	h0	56	LEU	CA-C-N	6.21	129.22	120.28
1	h0	56	LEU	C-N-CA	6.21	129.22	120.28
1	hc	11	VAL	N-CA-CB	6.21	117.48	110.72
1	1K	141	ILE	CA-C-O	6.21	127.17	120.47
1	hN	214	MET	N-CA-C	6.21	118.12	111.36
1	i4	198	CYS	CA-C-N	6.21	128.88	120.38
1	i4	198	CYS	C-N-CA	6.21	128.88	120.38
1	ib	174	ALA	CA-C-O	6.21	127.29	120.90
1	il	37	ILE	N-CA-CB	6.21	114.68	110.52
1	iy	77	ALA	CA-C-N	6.21	129.10	120.29
1	iy	77	ALA	C-N-CA	6.21	129.10	120.29
1	iD	85	PRO	CA-C-N	6.21	128.81	120.50
1	iD	85	PRO	C-N-CA	6.21	128.81	120.50
1	iK	29	GLU	N-CA-C	6.21	118.56	111.11
1	iX	112	GLN	O-C-N	-6.21	115.64	122.09
1	jh	165	VAL	CA-C-N	6.21	128.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jh	165	VAL	C-N-CA	6.21	128.51	120.44
1	jl	14	ALA	O-C-N	-6.21	115.64	122.84
1	jD	114	GLN	O-C-N	6.21	128.46	122.07
1	jK	74	ASN	O-C-N	-6.21	115.68	122.07
1	kQ	112	GLN	CA-C-O	6.21	127.01	119.38
1	kX	76	GLU	CA-C-N	6.21	128.51	120.44
1	kX	76	GLU	C-N-CA	6.21	128.51	120.44
1	lp	13	GLN	O-C-N	-6.21	115.79	123.36
1	lt	74	ASN	CA-CB-CG	-6.21	106.39	112.60
1	2b	181	VAL	N-CA-CB	6.21	117.38	110.62
1	2g	213	GLU	N-CA-C	6.21	118.56	111.11
1	2Z	104	ILE	N-CA-C	6.21	116.95	110.62
1	30	1	PRO	CB-CA-C	6.21	121.89	110.10
1	5M	202	LEU	CA-C-N	6.21	128.59	120.28
1	5M	202	LEU	C-N-CA	6.21	128.59	120.28
1	5U	164	TYR	N-CA-C	6.21	118.04	111.28
1	6j	169	TYR	N-CA-CB	6.21	119.24	110.12
1	70	2	ILE	CA-C-N	6.21	131.16	122.23
1	70	2	ILE	C-N-CA	6.21	131.16	122.23
1	72	219	GLN	OE1-CD-NE2	-6.21	116.39	122.60
1	74	65	ALA	N-CA-C	6.21	118.04	111.28
1	7L	154	ARG	NE-CZ-NH1	6.21	127.70	121.50
1	86	218	CYS	N-CA-CB	6.21	120.98	110.49
1	89	143	ARG	N-CA-C	6.21	118.04	111.28
1	8w	195	ASN	CA-C-N	6.21	126.39	119.32
1	8w	195	ASN	C-N-CA	6.21	126.39	119.32
1	8U	183	ASN	N-CA-CB	6.21	119.01	110.01
1	93	181	VAL	CA-C-N	6.21	128.59	120.28
1	93	181	VAL	C-N-CA	6.21	128.59	120.28
1	9a	142	VAL	O-C-N	-6.21	115.81	121.89
1	9M	57	ASN	N-CA-C	6.21	119.02	111.82
1	b5	48	THR	CA-CB-CG2	6.21	121.05	110.50
1	br	74	ASN	CA-C-N	6.21	128.59	120.28
1	br	74	ASN	C-N-CA	6.21	128.59	120.28
1	bB	164	TYR	N-CA-C	6.21	117.71	111.07
1	bP	198	CYS	N-CA-C	6.21	118.12	111.36
1	cf	87	HIS	CA-CB-CG	6.21	120.00	113.80
1	1d	75	GLU	CA-C-N	6.21	128.59	120.28
1	1d	75	GLU	C-N-CA	6.21	128.59	120.28
1	cw	37	ILE	O-C-N	6.21	124.39	120.42
1	dm	194	ALA	CA-C-O	-6.21	114.63	121.89
1	dB	67	GLN	OE1-CD-NE2	-6.21	116.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e4	125	PRO	CA-C-O	-6.21	113.91	123.16
1	e8	203	LYS	CA-C-N	6.21	128.59	120.28
1	e8	203	LYS	C-N-CA	6.21	128.59	120.28
1	ed	150	ILE	CA-CB-CG2	-6.21	99.95	110.50
1	es	36	VAL	CA-C-N	6.21	125.29	120.33
1	es	36	VAL	C-N-CA	6.21	125.29	120.33
1	eH	153	ILE	CB-CA-C	6.21	120.58	111.33
1	eZ	183	ASN	N-CA-C	6.21	117.71	111.07
1	f2	114	GLN	O-C-N	-6.21	115.08	122.15
1	f8	190	LEU	N-CA-C	6.21	118.12	111.36
1	fg	212	GLU	CA-C-N	6.21	128.59	120.28
1	fg	212	GLU	C-N-CA	6.21	128.59	120.28
1	fi	99	PRO	N-CA-C	6.21	120.67	110.55
1	fG	114	GLN	CA-C-N	6.21	128.96	120.46
1	fG	114	GLN	C-N-CA	6.21	128.96	120.46
1	1A	120	HIS	ND1-CE1-NE2	6.21	114.61	108.40
1	p	219	GLN	CA-C-N	6.21	132.87	121.70
1	p	219	GLN	C-N-CA	6.21	132.87	121.70
1	D	209	ALA	N-CA-C	6.21	119.23	110.23
1	gi	115	ILE	CA-C-N	6.20	127.00	119.99
1	gi	115	ILE	C-N-CA	6.20	127.00	119.99
1	gA	153	ILE	CA-CB-CG1	6.20	120.95	110.40
1	gG	86	VAL	CA-C-N	6.20	132.70	121.97
1	gG	86	VAL	C-N-CA	6.20	132.70	121.97
1	1G	88	ALA	CA-C-N	6.20	130.35	121.42
1	1G	88	ALA	C-N-CA	6.20	130.35	121.42
1	h3	50	GLN	CA-C-N	6.20	128.59	120.28
1	h3	50	GLN	C-N-CA	6.20	128.59	120.28
1	hc	179	GLN	CA-C-N	6.20	128.59	120.28
1	hc	179	GLN	C-N-CA	6.20	128.59	120.28
1	hm	201	ILE	CA-C-O	-6.20	114.27	120.85
1	1K	27	VAL	CA-CB-CG2	-6.20	99.86	110.40
1	hD	202	LEU	N-CA-C	6.20	118.04	111.28
1	hR	63	GLN	CG-CD-NE2	6.20	125.70	116.40
1	1N	164	TYR	CA-C-N	6.20	128.96	120.46
1	1N	164	TYR	C-N-CA	6.20	128.96	120.46
1	i5	50	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	ip	225	GLY	CA-C-O	-6.20	117.31	122.33
1	iq	101	GLY	CA-C-N	6.20	129.21	120.28
1	iq	101	GLY	C-N-CA	6.20	129.21	120.28
1	ix	32	PHE	CA-CB-CG	-6.20	107.60	113.80
1	1R	174	ALA	N-CA-CB	-6.20	101.84	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j5	229	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	jd	67	GLN	CB-CG-CD	6.20	123.14	112.60
1	jH	212	GLU	O-C-N	-6.20	115.54	122.12
1	jN	114	GLN	N-CA-C	6.20	117.71	111.07
1	jQ	193	ASN	CA-CB-CG	-6.20	106.40	112.60
1	k7	138	LEU	CA-C-O	6.20	127.13	120.55
1	ke	45	GLU	N-CA-C	6.20	118.08	109.15
1	km	207	PRO	CA-C-O	-6.20	110.80	118.99
1	kr	77	ALA	O-C-N	-6.20	115.55	122.12
1	ku	124	ILE	CB-CA-C	6.20	118.31	111.18
1	l5	79	GLU	N-CA-C	6.20	119.02	111.82
1	lB	32	PHE	CA-CB-CG	-6.20	107.60	113.80
1	lO	82	ARG	NH1-CZ-NH2	-6.20	111.23	119.30
1	lP	62	HIS	ND1-CG-CD2	6.20	112.30	106.10
1	lR	15	ILE	O-C-N	-6.20	115.63	122.83
1	2b	56	LEU	N-CA-C	6.20	118.83	111.33
1	2y	87	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	2U	97	ARG	NH1-CZ-NH2	-6.20	111.23	119.30
1	33	191	VAL	O-C-N	-6.20	115.83	121.91
1	3d	87	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	3v	90	PRO	N-CA-C	6.20	120.96	111.34
1	40	32	PHE	O-C-N	-6.20	115.20	122.89
1	4h	193	ASN	N-CA-C	6.20	117.71	111.07
1	4u	209	ALA	CA-C-O	6.20	128.32	121.56
1	4P	120	HIS	CG-CD2-NE2	6.20	113.40	107.20
1	5a	225	GLY	CA-C-N	6.20	129.52	120.71
1	5a	225	GLY	C-N-CA	6.20	129.52	120.71
1	5g	61	GLY	N-CA-C	6.20	119.15	112.33
1	5l	29	GLU	CA-C-N	6.20	130.59	120.23
1	5l	29	GLU	C-N-CA	6.20	130.59	120.23
1	5m	14	ALA	N-CA-C	6.20	119.03	110.35
1	5s	120	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	5w	110	THR	N-CA-CB	6.20	120.39	110.46
1	5R	21	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	5T	173	ARG	NH1-CZ-NH2	-6.20	111.24	119.30
1	63	194	ALA	CA-C-N	6.20	129.01	120.39
1	63	194	ALA	C-N-CA	6.20	129.01	120.39
1	65	109	SER	O-C-N	-6.20	115.92	123.30
1	6k	59	VAL	N-CA-C	6.20	117.74	109.37
1	6r	164	TYR	N-CA-C	6.20	117.71	111.07
1	6w	117	TRP	O-C-N	-6.20	115.68	122.07
1	6L	103	ASP	CA-C-N	6.20	128.96	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	103	ASP	C-N-CA	6.20	128.96	120.46
1	6P	70	LYS	CA-C-N	6.20	128.50	120.44
1	6P	70	LYS	C-N-CA	6.20	128.50	120.44
1	6Z	50	GLN	CA-CB-CG	6.20	126.51	114.10
1	7H	24	VAL	N-CA-C	6.20	116.95	110.62
1	7Q	122	PRO	CA-C-N	6.20	126.23	119.90
1	7Q	122	PRO	C-N-CA	6.20	126.23	119.90
1	7R	103	ASP	O-C-N	6.20	128.79	122.09
1	85	71	GLU	N-CA-C	6.20	119.02	111.82
1	89	204	ALA	N-CA-C	6.20	117.71	111.07
1	8z	24	VAL	N-CA-CB	6.20	117.81	110.55
1	8J	195	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	8R	97	ARG	N-CA-CB	-6.20	101.15	111.20
1	8R	226	HIS	O-C-N	-6.20	115.34	123.16
1	8Y	130	TYR	O-C-N	-6.20	115.68	122.07
1	9C	26	VAL	N-CA-CB	6.20	118.98	110.54
1	9F	197	ASP	CA-C-N	6.20	128.88	120.44
1	9F	197	ASP	C-N-CA	6.20	128.88	120.44
1	Y	28	GLU	CB-CA-C	6.20	120.78	110.92
1	9U	34	PRO	CA-C-N	6.20	128.59	120.28
1	9U	34	PRO	C-N-CA	6.20	128.59	120.28
1	a5	81	ASP	O-C-N	6.20	128.46	122.07
1	10	62	HIS	ND1-CG-CD2	6.20	112.30	106.10
1	ae	69	LEU	N-CA-C	6.20	118.04	111.28
1	ah	18	ARG	CA-C-N	6.20	128.88	120.38
1	ah	18	ARG	C-N-CA	6.20	128.88	120.38
1	as	100	ARG	CA-C-N	6.20	128.10	120.22
1	as	100	ARG	C-N-CA	6.20	128.10	120.22
1	12	179	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	aD	179	GLN	O-C-N	6.20	128.69	122.12
1	b3	115	ILE	CA-C-O	6.20	127.40	120.95
1	b4	63	GLN	N-CA-C	6.20	118.84	111.71
1	b6	9	GLN	N-CA-C	6.20	118.99	110.24
1	bI	90	PRO	CA-C-N	6.20	129.83	120.77
1	bI	90	PRO	C-N-CA	6.20	129.83	120.77
1	bM	154	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	bN	166	ASP	CA-C-N	6.20	129.10	120.29
1	bN	166	ASP	C-N-CA	6.20	129.10	120.29
1	c0	44	SER	N-CA-CB	6.20	120.20	110.46
1	c6	188	THR	CA-C-N	6.20	128.59	120.28
1	c6	188	THR	C-N-CA	6.20	128.59	120.28
1	ce	177	ALA	N-CA-C	6.20	118.79	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cD	54	THR	CA-CB-OG1	6.20	118.91	109.60
1	cN	117	TRP	N-CA-CB	-6.20	100.70	109.94
1	cT	176	GLN	OE1-CD-NE2	6.20	128.80	122.60
1	d5	18	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	dC	166	ASP	CA-C-O	-6.20	114.31	120.82
1	e9	199	LYS	O-C-N	-6.20	114.64	122.27
1	1u	88	ALA	CA-C-O	6.20	127.03	120.33
1	fn	159	GLU	CA-C-N	6.20	126.57	119.93
1	fn	159	GLU	C-N-CA	6.20	126.57	119.93
1	fn	195	ASN	CB-CA-C	-6.20	99.72	109.52
1	fo	100	ARG	CG-CD-NE	-6.20	98.35	112.00
1	fo	178	SER	N-CA-C	6.20	118.30	110.24
1	fz	79	GLU	N-CA-C	6.20	117.71	111.07
1	g2	67	GLN	N-CA-CB	6.20	119.01	110.01
1	r	180	GLU	O-C-N	6.20	128.70	122.12
1	t	2	ILE	O-C-N	-6.20	115.53	122.66
1	t	119	THR	N-CA-CB	6.20	119.77	110.65
1	v	178	SER	CA-C-O	6.20	129.13	121.81
1	x	167	ARG	N-CA-C	6.20	118.04	111.28
1	g9	119	THR	CB-CA-C	-6.20	99.93	109.29
1	gz	90	PRO	N-CA-CB	-6.20	97.52	102.36
1	iN	82	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	iZ	98	GLU	CB-CA-C	-6.20	101.68	109.31
1	jq	84	HIS	O-C-N	-6.20	116.29	121.44
1	ku	197	ASP	CA-CB-CG	-6.20	106.40	112.60
1	24	115	ILE	CB-CA-C	-6.20	103.77	112.14
1	l6	226	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	3w	166	ASP	CA-CB-CG	6.20	118.80	112.60
1	3z	212	GLU	N-CA-CB	6.20	119.25	109.82
1	3S	35	GLU	CA-C-N	6.20	128.37	120.56
1	3S	35	GLU	C-N-CA	6.20	128.37	120.56
1	40	127	GLY	CA-C-O	6.20	127.23	120.66
1	4a	130	TYR	CB-CG-CD2	-6.20	111.50	120.80
1	4c	37	ILE	CB-CA-C	-6.20	107.78	114.35
1	4B	181	VAL	N-CA-CB	6.20	117.81	110.55
1	5q	169	TYR	CA-C-O	6.20	127.00	120.42
1	5E	168	PHE	N-CA-C	6.20	118.59	111.02
1	5R	111	LEU	CB-CA-C	-6.20	100.49	110.79
1	60	134	ILE	CA-C-N	6.20	128.96	120.46
1	60	134	ILE	C-N-CA	6.20	128.96	120.46
1	6t	204	ALA	N-CA-C	6.20	118.04	111.28
1	6u	177	ALA	CA-C-O	-6.20	114.80	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	146	SER	CA-C-O	-6.20	112.89	119.22
1	6J	40	PHE	CA-C-O	6.20	127.00	120.42
1	6K	182	LYS	N-CA-C	6.20	118.04	111.28
1	72	173	ARG	N-CA-C	6.20	117.71	111.07
1	7q	23	TRP	CB-CG-CD2	6.20	135.48	126.80
1	9j	73	ILE	CA-C-N	6.20	128.59	120.28
1	9j	73	ILE	C-N-CA	6.20	128.59	120.28
1	Z	155	GLN	N-CA-C	6.20	119.47	110.42
1	ab	123	PRO	CA-C-N	6.20	127.06	122.59
1	ab	123	PRO	C-N-CA	6.20	127.06	122.59
1	aQ	47	ALA	CA-C-O	-6.20	114.74	121.44
1	ca	26	VAL	CA-C-O	6.20	127.72	121.27
1	cb	32	PHE	N-CA-C	-6.20	105.87	113.50
1	cx	35	GLU	O-C-N	-6.20	114.34	122.59
1	cQ	95	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	eS	130	TYR	N-CA-C	6.20	117.71	111.07
1	f0	160	PRO	CA-C-O	-6.20	114.35	121.36
1	1v	184	TRP	CA-C-N	6.20	128.59	120.28
1	1v	184	TRP	C-N-CA	6.20	128.59	120.28
1	fO	80	TRP	CA-C-O	6.20	127.11	120.10
1	g5	114	GLN	N-CA-C	6.20	118.04	111.28
1	C	67	GLN	CA-C-O	-6.20	114.31	120.82
1	5	117	TRP	CA-C-O	6.20	127.12	120.55
1	6	218	CYS	CA-C-O	6.20	127.06	120.36
1	7	224	PRO	CA-C-N	6.20	128.15	120.34
1	7	224	PRO	C-N-CA	6.20	128.15	120.34
1	8	175	GLU	CA-C-O	6.20	127.01	119.38
1	gj	154	ARG	NH1-CZ-NH2	-6.20	111.24	119.30
1	gm	67	GLN	O-C-N	-6.20	115.64	122.09
1	gx	158	LYS	CA-C-O	6.20	126.91	119.59
1	gy	198	CYS	CA-C-O	6.20	126.80	119.67
1	gK	12	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	gL	192	GLN	N-CA-C	6.20	118.84	111.71
1	gQ	108	THR	CA-CB-OG1	6.20	118.90	109.60
1	1G	143	ARG	N-CA-CB	6.20	119.24	110.12
1	1K	129	ILE	N-CA-C	6.20	116.37	110.42
1	hC	12	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	hY	84	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	iz	51	ASP	N-CA-CB	6.20	119.06	110.07
1	iD	19	THR	CA-C-N	6.20	128.50	120.44
1	iD	19	THR	C-N-CA	6.20	128.50	120.44
1	iR	5	ASN	CA-CB-CG	6.20	118.80	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jg	16	SER	CA-C-O	-6.20	113.92	119.75
1	jp	132	ARG	N-CA-C	6.20	118.04	111.28
1	jP	144	MET	CB-CA-C	-6.20	100.31	110.85
1	jS	36	VAL	CA-CB-CG2	6.20	120.94	110.40
1	jS	88	ALA	O-C-N	-6.20	116.02	123.03
1	jV	168	PHE	CA-CB-CG	-6.20	107.60	113.80
1	k1	59	VAL	CA-C-O	6.20	128.61	120.98
1	kc	124	ILE	CA-C-N	6.20	127.59	119.84
1	kc	124	ILE	C-N-CA	6.20	127.59	119.84
1	kW	63	GLN	N-CA-C	6.20	118.84	111.71
1	lh	69	LEU	N-CA-C	6.20	118.04	111.28
1	lv	100	ARG	N-CA-C	-6.20	101.28	110.46
1	lK	28	GLU	O-C-N	-6.20	114.17	122.23
1	lN	50	GLN	N-CA-C	6.20	118.04	111.28
1	lQ	179	GLN	N-CA-C	6.20	118.84	111.71
1	2v	204	ALA	N-CA-C	6.20	117.84	111.14
1	2G	120	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	3s	202	LEU	N-CA-C	-6.20	104.06	111.69
1	3x	170	LYS	CA-C-N	6.20	128.87	120.44
1	3x	170	LYS	C-N-CA	6.20	128.87	120.44
1	3L	22	ALA	CA-C-O	6.20	127.12	120.55
1	42	178	SER	N-CA-C	6.20	118.98	110.24
1	4e	168	PHE	CA-CB-CG	-6.20	107.60	113.80
1	4l	53	ASN	O-C-N	-6.20	115.68	122.07
1	4x	219	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	4T	112	GLN	N-CA-C	6.20	118.04	111.28
1	4Y	184	TRP	N-CA-CB	6.20	119.00	110.01
1	4Z	32	PHE	CA-CB-CG	-6.20	107.60	113.80
1	53	28	GLU	N-CA-C	6.20	117.70	111.07
1	5c	161	PHE	CA-C-N	6.20	129.21	120.28
1	5c	161	PHE	C-N-CA	6.20	129.21	120.28
1	5f	55	MET	CA-C-N	6.20	128.50	120.44
1	5f	55	MET	C-N-CA	6.20	128.50	120.44
1	5N	23	TRP	CA-C-N	6.20	128.37	120.56
1	5N	23	TRP	C-N-CA	6.20	128.37	120.56
1	60	18	ARG	CG-CD-NE	-6.20	98.36	112.00
1	63	227	LYS	N-CA-C	6.20	119.24	110.50
1	67	84	HIS	CA-CB-CG	6.20	120.00	113.80
1	6G	62	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	7w	151	LEU	O-C-N	-6.20	114.97	122.22
1	7x	47	ALA	CA-C-O	6.20	127.99	120.92
1	7y	195	ASN	CB-CA-C	6.20	119.32	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7B	53	ASN	CA-CB-CG	-6.20	106.40	112.60
1	7S	214	MET	CG-SD-CE	-6.20	87.26	100.90
1	80	229	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	8j	164	TYR	N-CA-C	6.20	118.04	111.28
1	8t	150	ILE	CA-C-O	6.20	127.12	119.43
1	97	24	VAL	N-CA-CB	6.20	117.81	110.55
1	9n	97	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	9Q	87	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	9U	10	MET	CG-SD-CE	-6.20	87.26	100.90
1	aJ	41	SER	CB-CA-C	-6.20	100.50	110.79
1	aN	10	MET	O-C-N	-6.20	115.67	123.05
1	aU	202	LEU	O-C-N	-6.20	115.68	122.07
1	aV	171	THR	N-CA-CB	6.20	119.00	110.01
1	b5	83	LEU	CA-C-O	6.20	127.09	120.70
1	bl	144	MET	CB-CA-C	6.20	120.61	110.88
1	bp	87	HIS	N-CA-C	6.20	119.97	111.54
1	bs	120	HIS	CB-CG-CD2	-6.20	123.14	131.20
1	bJ	86	VAL	N-CA-C	6.20	118.05	109.80
1	1c	118	MET	CA-C-O	6.20	127.00	119.31
1	cp	191	VAL	CB-CA-C	-6.20	104.21	112.46
1	ct	27	VAL	N-CA-C	6.20	116.98	110.72
1	cE	92	GLU	CA-C-O	-6.20	113.68	120.69
1	cL	188	THR	CA-C-O	6.20	124.08	119.68
1	cQ	113	GLU	N-CA-C	6.20	119.32	111.69
1	cX	25	LYS	N-CA-C	6.20	118.04	111.28
1	1k	131	LYS	O-C-N	-6.20	115.68	122.07
1	dw	12	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	dM	37	ILE	N-CA-C	6.20	122.27	108.88
1	e8	168	PHE	CA-C-N	6.20	128.59	120.28
1	e8	168	PHE	C-N-CA	6.20	128.59	120.28
1	ev	75	GLU	CA-C-N	6.20	129.09	120.29
1	ev	75	GLU	C-N-CA	6.20	129.09	120.29
1	f7	95	GLN	N-CA-C	6.20	118.78	110.35
1	fA	167	ARG	CA-C-N	6.20	129.09	120.29
1	fA	167	ARG	C-N-CA	6.20	129.09	120.29
1	fJ	126	VAL	N-CA-C	6.20	118.80	111.05
1	g2	79	GLU	N-CA-C	6.20	118.04	111.28
1	0	219	GLN	CA-C-N	6.20	132.86	121.70
1	0	219	GLN	C-N-CA	6.20	132.86	121.70
1	g	72	THR	O-C-N	-6.20	115.64	122.09
1	h	123	PRO	N-CA-C	6.20	120.95	111.15
1	x	82	ARG	CA-C-O	-6.20	113.92	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	36	VAL	N-CA-C	6.20	118.84	111.09
1	R	82	ARG	CG-CD-NE	-6.20	98.36	112.00
1	gf	133	TRP	CB-CG-CD2	-6.20	118.12	126.80
1	1C	5	ASN	CA-C-N	6.20	133.38	121.54
1	1C	5	ASN	C-N-CA	6.20	133.38	121.54
1	gm	163	ASP	CA-CB-CG	-6.20	106.40	112.60
1	gA	12	HIS	CG-CD2-NE2	6.20	113.40	107.20
1	gJ	27	VAL	N-CA-C	6.20	116.98	110.72
1	gM	197	ASP	CA-C-N	6.20	128.59	120.28
1	gM	197	ASP	C-N-CA	6.20	128.59	120.28
1	1J	170	LYS	O-C-N	-6.20	115.55	122.12
1	hB	173	ARG	O-C-N	-6.20	114.65	122.27
1	hC	124	ILE	O-C-N	-6.20	116.18	121.57
1	hO	42	ALA	CA-C-N	6.20	128.50	120.44
1	hO	42	ALA	C-N-CA	6.20	128.50	120.44
1	i6	80	TRP	CB-CG-CD1	-6.20	117.60	126.90
1	ib	184	TRP	N-CA-C	6.20	118.83	111.33
1	ic	27	VAL	CA-C-O	6.20	127.40	120.95
1	ie	123	PRO	N-CA-CB	6.20	108.70	103.25
1	in	32	PHE	CA-C-N	6.20	130.09	120.60
1	in	32	PHE	C-N-CA	6.20	130.09	120.60
1	iw	128	GLU	CB-CA-C	-6.20	100.31	110.85
1	iD	124	ILE	CB-CA-C	6.20	117.34	110.71
1	iL	69	LEU	CA-C-N	6.20	128.91	120.54
1	iL	69	LEU	C-N-CA	6.20	128.91	120.54
1	1S	115	ILE	CA-C-N	6.20	126.86	119.98
1	1S	115	ILE	C-N-CA	6.20	126.86	119.98
1	iU	203	LYS	CA-C-N	6.20	129.09	120.29
1	iU	203	LYS	C-N-CA	6.20	129.09	120.29
1	j8	32	PHE	CA-C-O	6.20	127.76	120.69
1	jk	34	PRO	N-CA-C	6.20	121.64	114.20
1	jC	201	ILE	N-CA-C	6.20	116.87	110.36
1	jG	13	GLN	CA-C-N	6.20	129.93	120.82
1	jG	13	GLN	C-N-CA	6.20	129.93	120.82
1	jI	186	THR	O-C-N	-6.20	115.55	122.12
1	jM	144	MET	CG-SD-CE	-6.20	87.26	100.90
1	jV	78	ALA	N-CA-CB	-6.20	101.01	110.12
1	k3	132	ARG	CA-C-N	6.20	128.59	120.28
1	k3	132	ARG	C-N-CA	6.20	128.59	120.28
1	ke	5	ASN	CA-CB-CG	6.20	118.80	112.60
1	ke	50	GLN	O-C-N	-6.20	115.55	122.12
1	kh	23	TRP	CA-C-N	6.20	128.60	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	23	TRP	C-N-CA	6.20	128.60	120.60
1	ki	33	SER	CA-C-N	6.20	127.59	119.84
1	ki	33	SER	C-N-CA	6.20	127.59	119.84
1	kI	199	LYS	N-CA-C	-6.20	104.58	111.71
1	kL	186	THR	N-CA-CB	6.20	119.33	110.16
1	kM	26	VAL	CB-CA-C	-6.20	103.90	112.02
1	la	195	ASN	N-CA-CB	6.20	119.16	110.11
1	lj	163	ASP	CA-CB-CG	6.20	118.80	112.60
1	lq	185	MET	N-CA-C	6.20	117.70	111.07
1	2b	88	ALA	O-C-N	-6.20	115.15	122.96
1	2k	37	ILE	N-CA-CB	6.20	115.29	110.45
1	2o	56	LEU	N-CA-C	6.20	118.04	111.28
1	2o	88	ALA	CA-C-O	6.20	128.10	121.16
1	2N	84	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	32	23	TRP	N-CA-C	6.20	118.83	111.33
1	3T	93	PRO	CA-C-N	6.20	130.23	121.30
1	3T	93	PRO	C-N-CA	6.20	130.23	121.30
1	4p	175	GLU	N-CA-C	6.20	119.22	110.23
1	4s	11	VAL	O-C-N	-6.20	116.56	123.26
1	4s	73	ILE	O-C-N	-6.20	115.83	121.91
1	4u	218	CYS	N-CA-C	6.20	120.79	113.23
1	4A	110	THR	CA-C-N	6.20	128.59	120.28
1	4A	110	THR	C-N-CA	6.20	128.59	120.28
1	4C	226	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	4H	142	VAL	N-CA-C	6.20	118.84	111.09
1	4I	174	ALA	CA-C-O	-6.20	114.31	120.82
1	4M	18	ARG	CB-CG-CD	6.20	125.56	111.30
1	51	221	VAL	N-CA-CB	-6.20	101.67	112.08
1	57	204	ALA	N-CA-C	6.20	118.55	111.11
1	5f	84	HIS	CA-C-O	-6.20	114.20	120.96
1	5l	221	VAL	CA-C-N	6.20	129.81	121.01
1	5l	221	VAL	C-N-CA	6.20	129.81	121.01
1	5A	88	ALA	N-CA-C	6.20	118.55	110.43
1	64	106	GLY	CA-C-O	6.20	126.19	119.06
1	6l	109	SER	CA-C-O	6.20	127.39	120.70
1	6z	204	ALA	O-C-N	-6.20	114.65	122.27
1	6Q	81	ASP	CA-C-O	6.20	127.10	119.97
1	6U	138	LEU	CA-C-N	6.20	128.59	120.28
1	6U	138	LEU	C-N-CA	6.20	128.59	120.28
1	7p	129	ILE	CA-C-O	6.20	127.74	121.17
1	7F	45	GLU	CB-CG-CD	6.20	123.14	112.60
1	7H	51	ASP	CA-C-O	6.20	127.12	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	200	THR	O-C-N	6.20	128.45	122.07
1	7V	165	VAL	CA-C-N	6.20	128.50	120.44
1	7V	165	VAL	C-N-CA	6.20	128.50	120.44
1	8o	2	ILE	O-C-N	-6.20	115.93	122.81
1	94	141	ILE	O-C-N	-6.20	115.86	121.87
1	9h	201	ILE	CA-C-O	6.20	127.42	120.85
1	9J	171	THR	N-CA-CB	6.20	119.00	110.01
1	ah	128	GLU	CA-C-O	-6.20	113.98	120.55
1	ai	107	THR	CB-CA-C	-6.20	98.40	110.11
1	au	121	ASN	CB-CA-C	6.20	116.31	110.17
1	au	167	ARG	N-CA-C	6.20	117.70	111.07
1	aL	206	GLY	N-CA-C	6.20	124.99	112.34
1	aP	154	ARG	CA-CB-CG	6.20	126.50	114.10
1	b7	28	GLU	O-C-N	6.20	128.45	122.07
1	be	63	GLN	CA-C-O	-6.20	113.98	120.55
1	bj	37	ILE	O-C-N	-6.20	116.45	120.42
1	bn	146	SER	N-CA-C	6.20	117.51	109.64
1	bo	173	ARG	N-CA-C	6.20	118.84	111.71
1	18	126	VAL	O-C-N	-6.20	115.61	121.87
1	bP	188	THR	CA-C-N	6.20	129.21	120.28
1	bP	188	THR	C-N-CA	6.20	129.21	120.28
1	bV	101	GLY	CA-C-N	6.20	131.07	120.72
1	bV	101	GLY	C-N-CA	6.20	131.07	120.72
1	c4	133	TRP	CB-CG-CD2	6.20	135.48	126.80
1	1e	127	GLY	CA-C-N	6.20	128.83	120.65
1	1e	127	GLY	C-N-CA	6.20	128.83	120.65
1	cC	12	HIS	CB-CG-ND1	6.20	132.00	122.70
1	cP	84	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	1h	133	TRP	CA-C-N	6.20	128.37	120.56
1	1h	133	TRP	C-N-CA	6.20	128.37	120.56
1	do	37	ILE	CA-C-O	6.20	122.84	118.69
1	dp	119	THR	CA-C-O	6.20	126.81	119.56
1	dU	28	GLU	N-CA-C	6.20	118.83	111.33
1	e9	2	ILE	CA-CB-CG2	6.20	121.04	110.50
1	eb	161	PHE	O-C-N	-6.20	115.55	122.12
1	ep	6	LEU	CA-C-N	6.20	133.38	121.54
1	ep	6	LEU	C-N-CA	6.20	133.38	121.54
1	eK	171	THR	CA-C-N	6.20	128.50	120.44
1	eK	171	THR	C-N-CA	6.20	128.50	120.44
1	eR	214	MET	CA-C-O	-6.20	114.31	120.82
1	eV	89	GLY	CA-C-O	-6.20	112.66	121.52
1	f0	116	GLY	CA-C-N	6.20	128.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f0	116	GLY	C-N-CA	6.20	128.59	120.28
1	f2	31	ALA	CB-CA-C	-6.20	109.41	116.54
1	f4	36	VAL	CA-C-O	-6.20	114.60	121.05
1	fh	91	ILE	CA-C-N	6.20	129.29	120.49
1	fh	91	ILE	C-N-CA	6.20	129.29	120.49
1	fm	205	LEU	CA-C-N	6.20	131.60	121.87
1	fm	205	LEU	C-N-CA	6.20	131.60	121.87
1	fB	132	ARG	NE-CZ-NH2	6.20	124.78	119.20
1	fQ	119	THR	CA-C-N	6.20	130.11	120.75
1	fQ	119	THR	C-N-CA	6.20	130.11	120.75
1	d	117	TRP	N-CA-C	6.20	117.83	111.14
1	q	161	PHE	N-CA-C	6.20	118.04	111.28
1	x	103	ASP	N-CA-C	6.20	118.84	111.71
1	gc	131	LYS	CB-CG-CD	6.20	125.55	111.30
1	hS	7	GLN	CA-C-O	6.20	127.71	119.59
1	1T	62	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	ju	180	GLU	O-C-N	6.20	129.89	122.27
1	jH	74	ASN	OD1-CG-ND2	6.20	128.80	122.60
1	jM	87	HIS	CA-CB-CG	-6.20	107.60	113.80
1	k6	30	LYS	CA-C-O	6.20	127.20	120.32
1	kz	166	ASP	CA-CB-CG	6.20	118.80	112.60
1	la	110	THR	CA-CB-OG1	6.20	118.89	109.60
1	lv	171	THR	OG1-CB-CG2	-6.20	96.91	109.30
1	2I	208	ALA	CA-C-N	6.20	130.11	120.75
1	2I	208	ALA	C-N-CA	6.20	130.11	120.75
1	4b	199	LYS	N-CA-C	6.20	118.03	111.28
1	4i	223	GLY	O-C-N	-6.20	115.57	121.77
1	4E	33	SER	CA-C-O	-6.20	114.25	120.63
1	4F	220	GLY	N-CA-C	-6.20	106.15	115.32
1	4J	72	THR	CB-CA-C	-6.20	101.15	110.88
1	4L	110	THR	CA-C-N	6.20	129.20	120.28
1	4L	110	THR	C-N-CA	6.20	129.20	120.28
1	5l	71	GLU	O-C-N	-6.20	115.55	122.12
1	5w	27	VAL	O-C-N	-6.20	115.86	121.87
1	5C	198	CYS	CA-C-N	6.20	128.58	120.28
1	5C	198	CYS	C-N-CA	6.20	128.58	120.28
1	62	74	ASN	CA-CB-CG	6.20	118.80	112.60
1	67	6	LEU	N-CA-C	-6.20	104.29	113.40
1	6f	120	HIS	N-CA-C	6.20	118.55	110.43
1	6i	28	GLU	O-C-N	-6.20	115.65	122.09
1	6p	179	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	6v	173	ARG	N-CA-CB	6.20	119.06	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7f	92	GLU	N-CA-C	6.20	119.00	110.01
1	7v	223	GLY	CA-C-N	6.20	127.59	119.84
1	7v	223	GLY	C-N-CA	6.20	127.59	119.84
1	7Q	96	MET	N-CA-C	6.20	119.45	110.28
1	8D	12	HIS	CG-CD2-NE2	6.20	113.40	107.20
1	8G	182	LYS	O-C-N	-6.20	115.40	122.09
1	94	16	SER	CA-C-N	6.20	127.59	119.84
1	94	16	SER	C-N-CA	6.20	127.59	119.84
1	9V	76	GLU	CB-CG-CD	6.20	123.13	112.60
1	9Y	40	PHE	N-CA-C	6.20	117.70	111.07
1	a7	188	THR	CA-CB-OG1	6.20	118.89	109.60
1	aB	132	ARG	NE-CZ-NH2	6.20	124.78	119.20
1	aC	62	HIS	CB-CG-CD2	-6.20	123.14	131.20
1	16	84	HIS	CG-CD2-NE2	6.20	113.40	107.20
1	bg	155	GLN	N-CA-C	6.20	118.98	110.24
1	bw	48	THR	N-CA-CB	6.20	116.93	109.74
1	bD	186	THR	O-C-N	-6.20	115.55	122.12
1	bS	210	THR	N-CA-CB	6.20	119.42	110.06
1	bU	171	THR	CA-C-N	6.20	129.73	120.31
1	bU	171	THR	C-N-CA	6.20	129.73	120.31
1	1b	129	ILE	O-C-N	6.20	127.98	121.91
1	c2	42	ALA	CA-C-O	6.20	126.99	120.42
1	c5	123	PRO	N-CA-CB	-6.20	97.79	103.31
1	cm	195	ASN	CB-CA-C	6.20	120.67	109.45
1	cs	37	ILE	CA-C-N	6.20	125.88	119.56
1	cs	37	ILE	C-N-CA	6.20	125.88	119.56
1	cx	67	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	e8	200	THR	CA-CB-OG1	6.20	118.89	109.60
1	eg	66	MET	CB-CA-C	6.20	120.69	110.90
1	eG	152	ASP	CA-C-O	6.20	126.93	119.43
1	f7	116	GLY	O-C-N	-6.20	114.64	122.70
1	fx	212	GLU	N-CA-CB	6.20	119.23	110.12
1	fA	23	TRP	CB-CG-CD1	-6.20	117.60	126.90
1	fF	142	VAL	O-C-N	6.20	128.34	121.90
1	fV	28	GLU	N-CA-C	6.20	118.55	111.11
1	fW	47	ALA	O-C-N	-6.20	115.40	123.02
1	1A	194	ALA	N-CA-C	6.20	118.78	110.35
1	a	154	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	E	129	ILE	CA-C-N	6.20	128.50	120.44
1	E	129	ILE	C-N-CA	6.20	128.50	120.44
1	W	87	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	W	213	GLU	N-CA-C	6.20	118.83	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1E	177	ALA	N-CA-C	6.20	118.78	110.35
1	h6	4	GLN	N-CA-C	6.20	119.35	110.24
1	ha	40	PHE	CA-C-N	6.20	128.49	120.44
1	ha	40	PHE	C-N-CA	6.20	128.49	120.44
1	he	35	GLU	N-CA-C	6.20	118.03	111.28
1	hU	165	VAL	N-CA-CB	6.20	118.50	110.57
1	hV	140	LYS	CA-C-N	6.20	128.95	120.46
1	hV	140	LYS	C-N-CA	6.20	128.95	120.46
1	id	62	HIS	CA-CB-CG	-6.20	107.61	113.80
1	il	21	ASN	O-C-N	6.20	128.69	122.12
1	it	186	THR	N-CA-CB	6.20	119.23	110.12
1	iB	200	THR	N-CA-C	6.20	118.03	111.28
1	iG	34	PRO	N-CA-C	6.20	122.80	113.81
1	iX	165	VAL	N-CA-CB	6.20	117.80	110.55
1	jw	146	SER	CA-CB-OG	6.20	123.49	111.10
1	jy	89	GLY	CA-C-N	6.20	127.58	119.84
1	jy	89	GLY	C-N-CA	6.20	127.58	119.84
1	jC	183	ASN	CA-C-N	6.20	128.58	120.28
1	jC	183	ASN	C-N-CA	6.20	128.58	120.28
1	jE	12	HIS	ND1-CE1-NE2	6.20	114.59	108.40
1	k4	219	GLN	OE1-CD-NE2	-6.20	116.40	122.60
1	ka	133	TRP	N-CA-CB	6.20	119.23	110.12
1	ku	152	ASP	CA-CB-CG	-6.20	106.40	112.60
1	kz	55	MET	N-CA-C	6.20	118.03	111.28
1	27	25	LYS	CA-C-N	6.20	128.37	120.56
1	27	25	LYS	C-N-CA	6.20	128.37	120.56
1	lk	84	HIS	CE1-NE2-CD2	-6.20	102.80	109.00
1	lO	170	LYS	N-CA-C	6.20	118.83	111.71
1	2d	84	HIS	CA-C-N	6.20	127.58	119.84
1	2d	84	HIS	C-N-CA	6.20	127.58	119.84
1	2F	57	ASN	CA-CB-CG	-6.20	106.41	112.60
1	2M	57	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	34	176	GLN	OE1-CD-NE2	6.20	128.80	122.60
1	3A	87	HIS	ND1-CE1-NE2	6.20	114.60	108.40
1	40	93	PRO	CA-C-N	6.20	133.55	121.41
1	40	93	PRO	C-N-CA	6.20	133.55	121.41
1	4h	43	LEU	N-CA-C	-6.20	105.76	113.38
1	4m	101	GLY	O-C-N	-6.20	116.24	122.19
1	4P	190	LEU	CA-C-O	6.20	126.60	119.35
1	59	181	VAL	O-C-N	-6.20	115.45	121.83
1	5l	216	THR	CA-C-O	6.20	127.45	119.95
1	5B	186	THR	N-CA-C	-6.20	104.89	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5T	107	THR	CA-CB-CG2	-6.20	99.97	110.50
1	64	72	THR	N-CA-C	-6.20	104.53	111.28
1	6n	118	MET	CA-C-N	6.20	128.50	120.44
1	6n	118	MET	C-N-CA	6.20	128.50	120.44
1	6y	212	GLU	CA-C-N	6.20	128.90	120.54
1	6y	212	GLU	C-N-CA	6.20	128.90	120.54
1	6H	62	HIS	ND1-CG-CD2	6.20	112.30	106.10
1	6T	51	ASP	N-CA-CB	6.20	118.99	110.01
1	7g	112	GLN	N-CA-C	6.20	118.83	111.71
1	7l	43	LEU	CA-C-N	6.20	132.27	122.60
1	7l	43	LEU	C-N-CA	6.20	132.27	122.60
1	7w	56	LEU	N-CA-C	6.20	118.83	111.33
1	7D	66	MET	N-CA-C	6.20	118.83	111.33
1	7D	162	ARG	N-CA-C	6.20	117.70	111.07
1	7G	163	ASP	CA-CB-CG	-6.20	106.40	112.60
1	7N	68	MET	CG-SD-CE	-6.20	87.27	100.90
1	8F	162	ARG	NH1-CZ-NH2	-6.20	111.25	119.30
1	99	62	HIS	O-C-N	-6.20	114.11	122.41
1	9h	111	LEU	N-CA-C	6.20	118.03	111.28
1	9j	33	SER	O-C-N	-6.20	114.92	121.30
1	9C	91	ILE	CB-CA-C	6.20	118.59	110.91
1	9C	207	PRO	CB-CA-C	6.20	119.16	111.23
1	a0	22	ALA	CB-CA-C	-6.20	100.90	110.81
1	a7	74	ASN	CA-CB-CG	6.20	118.80	112.60
1	al	135	ILE	O-C-N	-6.20	115.86	121.87
1	as	166	ASP	CB-CA-C	-6.20	101.15	110.88
1	aE	4	GLN	CA-C-O	6.20	129.37	120.51
1	b1	97	ARG	NE-CZ-NH1	6.20	127.70	121.50
1	b6	168	PHE	CA-CB-CG	-6.20	107.61	113.80
1	b7	226	HIS	CE1-NE2-CD2	-6.20	102.81	109.00
1	bi	11	VAL	CB-CA-C	-6.20	104.54	111.23
1	bl	218	CYS	N-CA-CB	6.20	120.96	110.49
1	cj	171	THR	N-CA-CB	6.20	120.67	110.39
1	cs	25	LYS	CA-C-O	-6.20	113.98	120.55
1	cA	140	LYS	N-CA-C	6.20	118.03	111.28
1	cH	152	ASP	N-CA-CB	6.20	119.23	110.12
1	cN	7	GLN	CA-C-N	6.20	132.24	122.51
1	cN	7	GLN	C-N-CA	6.20	132.24	122.51
1	cV	82	ARG	NH1-CZ-NH2	-6.20	111.25	119.30
1	cZ	161	PHE	CA-CB-CG	6.20	120.00	113.80
1	d5	160	PRO	CA-C-N	6.20	133.37	121.54
1	d5	160	PRO	C-N-CA	6.20	133.37	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	da	125	PRO	CA-C-N	6.20	129.27	120.53
1	da	125	PRO	C-N-CA	6.20	129.27	120.53
1	dt	190	LEU	N-CA-CB	6.20	119.05	110.07
1	dJ	144	MET	N-CA-C	6.20	117.70	111.07
1	e6	113	GLU	N-CA-C	6.20	118.03	111.28
1	el	42	ALA	N-CA-C	6.20	118.11	111.36
1	en	21	ASN	OD1-CG-ND2	-6.20	116.40	122.60
1	eq	161	PHE	N-CA-C	6.20	118.83	111.71
1	eG	143	ARG	CA-C-O	-6.20	113.98	120.55
1	eW	153	ILE	O-C-N	-6.20	116.06	122.63
1	f1	11	VAL	O-C-N	-6.20	114.97	122.59
1	f1	104	ILE	N-CA-C	6.20	116.94	110.62
1	f7	37	ILE	O-C-N	-6.20	114.04	121.10
1	fF	72	THR	N-CA-CB	6.20	119.23	110.12
1	fJ	164	TYR	CA-C-O	6.20	127.12	120.55
1	g0	62	HIS	CA-CB-CG	6.20	120.00	113.80
1	f	54	THR	N-CA-CB	6.20	118.99	110.01
1	n	127	GLY	N-CA-C	6.20	120.17	112.73
1	C	56	LEU	N-CA-C	6.20	118.03	111.28
1	S	96	MET	O-C-N	-6.20	115.55	122.86
1	gs	202	LEU	N-CA-C	6.19	117.70	111.07
1	gB	42	ALA	N-CA-C	6.19	118.11	111.36
1	1E	91	ILE	CA-CB-CG1	6.19	120.93	110.40
1	1F	230	VAL	O-C-N	-6.19	115.94	122.57
1	h0	180	GLU	CA-C-N	6.19	128.94	120.46
1	h0	180	GLU	C-N-CA	6.19	128.94	120.46
1	hs	113	GLU	CA-C-O	6.19	127.09	119.97
1	ib	57	ASN	CA-C-N	6.19	128.58	120.28
1	ib	57	ASN	C-N-CA	6.19	128.58	120.28
1	ii	150	ILE	CA-C-O	6.19	127.39	120.64
1	im	209	ALA	N-CA-C	6.19	119.46	110.42
1	1R	18	ARG	CA-C-N	6.19	128.49	120.44
1	1R	18	ARG	C-N-CA	6.19	128.49	120.44
1	iJ	103	ASP	CA-C-O	6.19	126.98	120.42
1	iN	42	ALA	N-CA-C	6.19	118.83	111.71
1	j4	173	ARG	N-CA-C	6.19	118.03	111.28
1	jt	49	PRO	CA-C-N	6.19	128.49	120.44
1	jt	49	PRO	C-N-CA	6.19	128.49	120.44
1	jY	156	GLY	CA-C-N	6.19	125.92	119.05
1	jY	156	GLY	C-N-CA	6.19	125.92	119.05
1	k4	176	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	kf	133	TRP	CH2-CZ2-CE2	6.19	125.55	117.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kA	125	PRO	CA-C-O	-6.19	116.73	121.31
1	kI	10	MET	CG-SD-CE	-6.19	87.27	100.90
1	kT	183	ASN	N-CA-C	6.19	118.82	111.33
1	ld	63	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	lo	20	LEU	O-C-N	-6.19	115.09	122.15
1	3u	195	ASN	CA-C-O	-6.19	113.73	120.17
1	3O	137	GLY	CA-C-N	6.19	128.58	120.28
1	3O	137	GLY	C-N-CA	6.19	128.58	120.28
1	3V	150	ILE	CA-C-N	6.19	129.72	120.31
1	3V	150	ILE	C-N-CA	6.19	129.72	120.31
1	3Y	5	ASN	CA-CB-CG	6.19	118.79	112.60
1	4D	37	ILE	CA-C-O	-6.19	111.65	119.95
1	4G	126	VAL	CA-C-N	6.19	126.69	119.94
1	4G	126	VAL	C-N-CA	6.19	126.69	119.94
1	4M	195	ASN	CA-C-N	6.19	126.38	119.32
1	4M	195	ASN	C-N-CA	6.19	126.38	119.32
1	53	184	TRP	CA-C-O	6.19	127.32	120.82
1	59	81	ASP	CB-CA-C	-6.19	100.51	110.79
1	5F	211	LEU	O-C-N	-6.19	114.97	122.22
1	5G	81	ASP	N-CA-C	6.19	118.03	111.28
1	5K	16	SER	CB-CA-C	-6.19	102.79	109.85
1	6i	81	ASP	CA-CB-CG	6.19	118.79	112.60
1	6o	131	LYS	CA-C-O	6.19	126.98	119.49
1	6N	139	ASN	O-C-N	-6.19	115.14	122.20
1	6N	194	ALA	N-CA-C	6.19	118.32	110.33
1	82	177	ALA	CA-C-O	6.19	128.12	121.55
1	87	39	MET	CA-C-N	6.19	128.49	120.44
1	87	39	MET	C-N-CA	6.19	128.49	120.44
1	au	135	ILE	CA-CB-CG2	6.19	121.03	110.50
1	b3	51	ASP	CA-C-N	6.19	129.20	120.28
1	b3	51	ASP	C-N-CA	6.19	129.20	120.28
1	bd	176	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	bB	133	TRP	N-CA-CB	6.19	119.22	110.12
1	c3	77	ALA	CA-C-N	6.19	128.58	120.28
1	c3	77	ALA	C-N-CA	6.19	128.58	120.28
1	ci	15	ILE	O-C-N	-6.19	116.12	122.75
1	1e	133	TRP	N-CA-CB	6.19	119.33	110.16
1	cx	26	VAL	N-CA-CB	6.19	119.87	110.58
1	cM	169	TYR	N-CA-CB	6.19	119.43	110.20
1	cS	174	ALA	O-C-N	-6.19	114.88	122.25
1	cW	42	ALA	O-C-N	-6.19	115.09	122.15
1	cZ	178	SER	CA-C-N	6.19	129.20	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	178	SER	C-N-CA	6.19	129.20	120.28
1	dD	18	ARG	NE-CZ-NH2	6.19	124.77	119.20
1	el	7	GLN	CG-CD-OE1	6.19	133.19	120.80
1	eD	139	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	eT	178	SER	CA-C-O	-6.19	114.68	121.87
1	f2	96	MET	O-C-N	-6.19	116.27	123.27
1	fl	128	GLU	N-CA-CB	6.19	118.99	110.01
1	fz	181	VAL	CG1-CB-CG2	-6.19	97.17	110.80
1	1z	143	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	b	203	LYS	CA-CB-CG	6.19	126.49	114.10
1	gc	79	GLU	N-CA-C	6.19	118.82	111.33
1	gn	84	HIS	CA-C-N	6.19	127.58	119.84
1	gn	84	HIS	C-N-CA	6.19	127.58	119.84
1	gA	50	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	gL	39	MET	CA-C-O	6.19	127.32	120.82
1	gQ	224	PRO	CA-C-N	6.19	126.81	120.00
1	gQ	224	PRO	C-N-CA	6.19	126.81	120.00
1	gT	174	ALA	O-C-N	-6.19	115.65	122.09
1	h7	58	THR	CA-CB-CG2	6.19	121.03	110.50
1	h9	83	LEU	N-CA-C	6.19	117.69	111.07
1	1I	118	MET	CA-C-O	6.19	126.98	120.42
1	hm	11	VAL	O-C-N	-6.19	116.51	123.20
1	hz	10	MET	CB-CA-C	-6.19	101.24	110.16
1	hE	223	GLY	CA-C-N	6.19	127.58	119.84
1	hE	223	GLY	C-N-CA	6.19	127.58	119.84
1	hI	201	ILE	CA-CB-CG1	6.19	120.93	110.40
1	hO	32	PHE	CA-CB-CG	-6.19	107.61	113.80
1	iN	186	THR	CB-CA-C	-6.19	100.51	110.79
1	jw	22	ALA	CA-C-N	6.19	128.90	120.54
1	jw	22	ALA	C-N-CA	6.19	128.90	120.54
1	jB	130	TYR	CB-CG-CD2	-6.19	111.51	120.80
1	jL	70	LYS	CA-C-N	6.19	128.58	120.28
1	jL	70	LYS	C-N-CA	6.19	128.58	120.28
1	jV	115	ILE	O-C-N	-6.19	115.82	121.89
1	k5	26	VAL	O-C-N	-6.19	115.84	121.91
1	20	48	THR	CA-C-N	6.19	127.58	119.84
1	20	48	THR	C-N-CA	6.19	127.58	119.84
1	kh	110	THR	N-CA-CB	6.19	119.09	110.17
1	ki	56	LEU	CA-C-O	6.19	126.98	120.42
1	kw	55	MET	N-CA-C	6.19	118.03	111.28
1	kM	121	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	kV	67	GLN	CA-C-N	6.19	128.58	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kV	67	GLN	C-N-CA	6.19	128.58	120.28
1	lE	127	GLY	CA-C-N	6.19	128.58	120.28
1	lE	127	GLY	C-N-CA	6.19	128.58	120.28
1	lF	137	GLY	CA-C-N	6.19	128.58	120.28
1	lF	137	GLY	C-N-CA	6.19	128.58	120.28
1	2G	179	GLN	O-C-N	-6.19	115.09	122.15
1	2X	40	PHE	O-C-N	-6.19	115.69	122.07
1	2X	97	ARG	NE-CZ-NH1	6.19	127.69	121.50
1	3w	26	VAL	CA-C-N	6.19	128.94	120.46
1	3w	26	VAL	C-N-CA	6.19	128.94	120.46
1	41	122	PRO	N-CD-CG	6.19	111.23	103.80
1	42	209	ALA	O-C-N	-6.19	115.98	123.29
1	4C	172	LEU	N-CA-CB	-6.19	100.77	110.06
1	4I	109	SER	CA-C-N	6.19	132.46	121.75
1	4I	109	SER	C-N-CA	6.19	132.46	121.75
1	4U	165	VAL	CA-C-N	6.19	128.90	120.54
1	4U	165	VAL	C-N-CA	6.19	128.90	120.54
1	4Z	180	GLU	O-C-N	-6.19	115.56	122.12
1	5d	191	VAL	CA-C-N	6.19	128.58	120.28
1	5d	191	VAL	C-N-CA	6.19	128.58	120.28
1	5h	167	ARG	O-C-N	-6.19	114.03	122.33
1	5B	128	GLU	N-CA-C	6.19	117.70	111.07
1	6b	149	SER	CB-CA-C	-6.19	99.75	109.84
1	6X	106	GLY	CA-C-N	6.19	128.86	120.38
1	6X	106	GLY	C-N-CA	6.19	128.86	120.38
1	73	53	ASN	CA-C-O	6.19	127.11	120.55
1	7d	188	THR	CA-C-O	6.19	129.59	120.42
1	7o	9	GLN	O-C-N	-6.19	114.87	122.55
1	7o	63	GLN	CB-CG-CD	-6.19	102.07	112.60
1	7v	139	ASN	O-C-N	-6.19	114.13	122.43
1	7S	132	ARG	CA-C-N	6.19	128.90	120.54
1	7S	132	ARG	C-N-CA	6.19	128.90	120.54
1	80	113	GLU	N-CA-C	6.19	118.83	111.71
1	82	12	HIS	ND1-CE1-NE2	6.19	114.59	108.40
1	8i	162	ARG	N-CA-CB	6.19	119.22	110.12
1	8o	86	VAL	O-C-N	-6.19	116.24	122.62
1	8E	87	HIS	CA-C-O	-6.19	113.25	120.62
1	91	220	GLY	O-C-N	6.19	127.53	122.51
1	9q	112	GLN	O-C-N	-6.19	115.56	122.12
1	9y	143	ARG	CA-C-N	6.19	129.05	120.63
1	9y	143	ARG	C-N-CA	6.19	129.05	120.63
1	ah	51	ASP	N-CA-C	6.19	118.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	181	VAL	CA-C-N	6.19	128.90	120.54
1	aS	181	VAL	C-N-CA	6.19	128.90	120.54
1	aV	35	GLU	CA-C-O	6.19	126.90	119.10
1	aV	81	ASP	O-C-N	-6.19	115.09	122.15
1	b8	142	VAL	O-C-N	6.19	128.21	121.83
1	bG	194	ALA	CA-C-N	6.19	129.00	120.39
1	bG	194	ALA	C-N-CA	6.19	129.00	120.39
1	1b	162	ARG	CA-C-N	6.19	128.58	120.28
1	1b	162	ARG	C-N-CA	6.19	128.58	120.28
1	ca	169	TYR	N-CA-C	6.19	118.03	111.28
1	cG	118	MET	CG-SD-CE	-6.19	87.28	100.90
1	cO	121	ASN	N-CA-CB	6.19	121.19	110.23
1	cQ	175	GLU	N-CA-C	6.19	119.21	110.23
1	cW	146	SER	N-CA-C	6.19	123.49	109.81
1	dm	218	CYS	N-CA-CB	6.19	120.95	110.49
1	1k	36	VAL	N-CA-C	6.19	116.94	110.62
1	do	177	ALA	N-CA-C	6.19	123.99	110.80
1	dq	186	THR	CA-C-O	6.19	127.32	120.82
1	e4	162	ARG	N-CA-C	6.19	121.59	111.37
1	e8	66	MET	N-CA-C	6.19	118.03	111.28
1	ec	77	ALA	O-C-N	-6.19	115.69	122.07
1	ec	183	ASN	CA-C-N	6.19	128.49	120.44
1	ec	183	ASN	C-N-CA	6.19	128.49	120.44
1	ez	163	ASP	N-CA-C	6.19	118.03	111.28
1	eJ	110	THR	O-C-N	-6.19	115.43	122.68
1	eS	170	LYS	N-CA-CB	6.19	119.22	110.12
1	f4	31	ALA	CA-C-N	6.19	132.56	122.65
1	f4	31	ALA	C-N-CA	6.19	132.56	122.65
1	f4	120	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	fs	67	GLN	N-CA-C	6.19	118.11	111.36
1	ft	7	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	1z	12	HIS	CA-CB-CG	6.19	119.99	113.80
1	fP	189	LEU	CA-C-N	6.19	128.86	120.44
1	fP	189	LEU	C-N-CA	6.19	128.86	120.44
1	g1	183	ASN	O-C-N	-6.19	114.65	122.27
1	M	82	ARG	CA-C-N	6.19	128.86	120.44
1	M	82	ARG	C-N-CA	6.19	128.86	120.44
1	g8	37	ILE	O-C-N	-6.19	116.46	120.42
1	gg	21	ASN	CA-CB-CG	6.19	118.79	112.60
1	gr	171	THR	CA-C-N	6.19	128.58	120.28
1	gr	171	THR	C-N-CA	6.19	128.58	120.28
1	gA	169	TYR	CB-CG-CD2	6.19	130.09	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gD	40	PHE	CA-C-N	6.19	128.58	120.28
1	gD	40	PHE	C-N-CA	6.19	128.58	120.28
1	gG	143	ARG	NH1-CZ-NH2	-6.19	111.25	119.30
1	gL	201	ILE	CA-C-O	6.19	127.41	120.85
1	gR	193	ASN	CA-C-N	6.19	130.10	120.75
1	gR	193	ASN	C-N-CA	6.19	130.10	120.75
1	1G	25	LYS	N-CA-C	6.19	118.03	111.28
1	hd	214	MET	O-C-N	-6.19	113.92	122.46
1	1I	111	LEU	CA-C-N	6.19	128.90	120.54
1	1I	111	LEU	C-N-CA	6.19	128.90	120.54
1	hj	214	MET	N-CA-C	6.19	118.03	111.28
1	hq	56	LEU	N-CA-CB	6.19	118.98	110.01
1	1K	11	VAL	O-C-N	-6.19	116.58	123.26
1	hN	203	LYS	N-CA-C	6.19	118.03	111.28
1	hZ	80	TRP	O-C-N	-6.19	114.65	122.27
1	i2	108	THR	CA-CB-OG1	6.19	118.89	109.60
1	i3	90	PRO	N-CA-CB	-6.19	98.12	103.32
1	ip	26	VAL	O-C-N	6.19	127.87	121.87
1	iL	86	VAL	O-C-N	-6.19	116.12	122.75
1	iO	227	LYS	N-CA-C	6.19	119.32	110.10
1	jk	58	THR	CA-CB-OG1	-6.19	100.31	109.60
1	jl	226	HIS	ND1-CE1-NE2	6.19	114.59	108.40
1	jn	81	ASP	CA-CB-CG	-6.19	106.41	112.60
1	jz	179	GLN	O-C-N	-6.19	115.09	122.15
1	km	147	PRO	N-CA-CB	-6.19	96.63	101.83
1	kO	124	ILE	CA-C-N	6.19	127.58	119.84
1	kO	124	ILE	C-N-CA	6.19	127.58	119.84
1	l6	198	CYS	N-CA-C	-6.19	105.55	113.23
1	l9	21	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	lt	33	SER	O-C-N	-6.19	114.60	121.53
1	lN	206	GLY	O-C-N	-6.19	115.58	121.77
1	lR	153	ILE	CA-C-O	-6.19	113.72	120.71
1	2y	165	VAL	CA-CB-CG1	6.19	120.92	110.40
1	2F	214	MET	N-CA-C	6.19	118.03	111.28
1	39	180	GLU	N-CA-C	6.19	118.83	111.71
1	3i	45	GLU	N-CA-C	6.19	118.83	111.71
1	40	68	MET	CA-C-N	6.19	128.90	120.54
1	40	68	MET	C-N-CA	6.19	128.90	120.54
1	48	12	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	4d	24	VAL	N-CA-C	6.19	116.97	110.72
1	4s	55	MET	CA-C-O	-6.19	114.32	120.82
1	4x	199	LYS	O-C-N	-6.19	114.98	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	165	VAL	N-CA-C	6.19	116.93	110.62
1	4X	81	ASP	N-CA-C	-6.19	105.69	113.18
1	5i	193	ASN	CA-C-O	6.19	126.92	119.43
1	5l	186	THR	CA-C-O	6.19	126.98	120.42
1	5u	107	THR	N-CA-C	6.19	117.69	111.07
1	5C	221	VAL	CA-C-N	6.19	127.13	121.31
1	5C	221	VAL	C-N-CA	6.19	127.13	121.31
1	5K	74	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	5L	126	VAL	CA-C-O	6.19	127.16	120.47
1	5Y	59	VAL	O-C-N	-6.19	116.79	122.79
1	62	226	HIS	CB-CG-CD2	-6.19	123.15	131.20
1	6v	36	VAL	N-CA-C	6.19	118.83	111.09
1	6H	121	ASN	O-C-N	-6.19	114.23	121.23
1	7c	156	GLY	CA-C-O	-6.19	116.46	122.46
1	7B	180	GLU	CA-C-N	6.19	128.36	120.56
1	7B	180	GLU	C-N-CA	6.19	128.36	120.56
1	7L	73	ILE	CA-C-N	6.19	128.58	120.28
1	7L	73	ILE	C-N-CA	6.19	128.58	120.28
1	7R	226	HIS	ND1-CE1-NE2	6.19	114.59	108.40
1	8e	224	PRO	N-CA-C	6.19	125.22	112.47
1	8s	180	GLU	N-CA-C	6.19	118.03	111.28
1	8u	38	PRO	CA-C-N	6.19	128.49	120.44
1	8u	38	PRO	C-N-CA	6.19	128.49	120.44
1	8Y	221	VAL	CA-C-N	6.19	129.53	121.85
1	8Y	221	VAL	C-N-CA	6.19	129.53	121.85
1	95	58	THR	CA-C-N	6.19	128.80	120.50
1	95	58	THR	C-N-CA	6.19	128.80	120.50
1	9a	214	MET	O-C-N	-6.19	114.98	122.22
1	9q	159	GLU	CA-C-N	6.19	127.58	119.84
1	9q	159	GLU	C-N-CA	6.19	127.58	119.84
1	9t	132	ARG	NE-CZ-NH1	6.19	127.69	121.50
1	9v	112	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	9Q	87	HIS	O-C-N	-6.19	115.27	122.95
1	at	149	SER	CB-CA-C	6.19	120.32	109.80
1	aU	118	MET	N-CA-C	6.19	118.03	111.28
1	15	54	THR	CA-C-N	6.19	129.08	120.29
1	15	54	THR	C-N-CA	6.19	129.08	120.29
1	be	149	SER	CA-C-N	6.19	131.20	120.86
1	be	149	SER	C-N-CA	6.19	131.20	120.86
1	bf	172	LEU	CA-C-N	6.19	133.36	121.54
1	bf	172	LEU	C-N-CA	6.19	133.36	121.54
1	bv	121	ASN	OD1-CG-ND2	-6.19	116.41	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bA	225	GLY	CA-C-N	6.19	130.94	122.34
1	bA	225	GLY	C-N-CA	6.19	130.94	122.34
1	19	50	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	bF	8	GLY	N-CA-C	6.19	121.65	114.16
1	ca	120	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	ck	107	THR	CA-C-O	6.19	127.11	120.24
1	cl	215	MET	CA-C-O	6.19	126.77	119.28
1	cp	110	THR	CA-C-N	6.19	128.57	120.28
1	cp	110	THR	C-N-CA	6.19	128.57	120.28
1	cZ	40	PHE	N-CA-C	6.19	117.69	111.07
1	d1	114	GLN	CA-C-O	6.19	127.11	120.24
1	dg	127	GLY	CA-C-O	6.19	127.12	120.75
1	dr	62	HIS	CB-CG-ND1	-6.19	113.42	122.70
1	dK	20	LEU	CA-C-O	-6.19	113.86	120.42
1	dX	179	GLN	N-CA-C	6.19	118.03	111.28
1	e5	72	THR	N-CA-C	6.19	118.03	111.28
1	eh	172	LEU	CA-C-N	6.19	128.90	120.54
1	eh	172	LEU	C-N-CA	6.19	128.90	120.54
1	1q	162	ARG	CG-CD-NE	-6.19	98.38	112.00
1	en	37	ILE	CA-C-N	6.19	125.60	118.85
1	en	37	ILE	C-N-CA	6.19	125.60	118.85
1	eC	145	TYR	CA-CB-CG	-6.19	102.76	113.90
1	eE	62	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	eQ	139	ASN	CA-C-O	-6.19	114.32	120.82
1	fo	52	LEU	N-CA-C	6.19	118.03	111.28
1	fF	120	HIS	N-CA-C	6.19	123.98	110.80
1	fN	8	GLY	O-C-N	-6.19	114.65	122.70
1	g4	139	ASN	O-C-N	-6.19	114.99	122.11
1	n	200	THR	CA-C-N	6.19	128.48	120.56
1	n	200	THR	C-N-CA	6.19	128.48	120.56
1	I	36	VAL	O-C-N	-6.19	115.86	121.87
1	I	195	ASN	CA-CB-CG	-6.19	106.41	112.60
1	I	211	LEU	CA-C-N	6.19	128.90	120.54
1	I	211	LEU	C-N-CA	6.19	128.90	120.54
1	5	125	PRO	N-CD-CG	6.19	112.49	103.20
1	9	187	GLU	N-CA-C	6.19	117.83	111.14
1	h6	27	VAL	O-C-N	-6.19	115.87	121.87
1	iN	186	THR	CA-CB-CG2	6.19	121.02	110.50
1	iP	21	ASN	OD1-CG-ND2	6.19	128.79	122.60
1	iT	84	HIS	CA-CB-CG	6.19	119.99	113.80
1	jA	211	LEU	CA-C-N	6.19	128.90	120.54
1	jA	211	LEU	C-N-CA	6.19	128.90	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kb	148	THR	N-CA-C	6.19	119.34	110.24
1	ks	188	THR	N-CA-CB	6.19	120.95	110.49
1	2G	143	ARG	CD-NE-CZ	-6.19	115.74	124.40
1	4l	68	MET	O-C-N	-6.19	114.66	122.27
1	4o	172	LEU	CA-C-O	6.19	127.09	120.10
1	5G	172	LEU	O-C-N	-6.19	115.70	122.07
1	69	117	TRP	N-CA-C	6.19	118.11	111.36
1	6d	87	HIS	CG-CD2-NE2	6.19	113.39	107.20
1	6F	33	SER	CA-C-N	6.19	125.87	119.56
1	6F	33	SER	C-N-CA	6.19	125.87	119.56
1	71	162	ARG	NH1-CZ-NH2	-6.19	111.25	119.30
1	7p	135	ILE	CA-C-N	6.19	128.86	120.38
1	7p	135	ILE	C-N-CA	6.19	128.86	120.38
1	8W	150	ILE	CA-CB-CG1	6.19	120.92	110.40
1	9f	143	ARG	CA-C-N	6.19	128.90	120.54
1	9f	143	ARG	C-N-CA	6.19	128.90	120.54
1	9k	148	THR	CA-C-N	6.19	131.72	122.99
1	9k	148	THR	C-N-CA	6.19	131.72	122.99
1	9t	7	GLN	CA-CB-CG	6.19	126.48	114.10
1	9t	30	LYS	CA-C-N	6.19	130.92	122.07
1	9t	30	LYS	C-N-CA	6.19	130.92	122.07
1	9N	202	LEU	O-C-N	6.19	128.68	122.12
1	ae	228	ALA	O-C-N	-6.19	115.68	122.67
1	an	224	PRO	N-CD-CG	6.19	112.48	103.20
1	15	143	ARG	N-CA-C	6.19	117.83	111.14
1	bb	98	GLU	N-CA-C	6.19	118.39	109.48
1	bu	152	ASP	CA-CB-CG	-6.19	106.41	112.60
1	bT	108	THR	CA-C-O	6.19	125.86	119.05
1	bX	140	LYS	N-CA-C	6.19	118.03	111.28
1	c7	84	HIS	CB-CG-CD2	-6.19	123.15	131.20
1	1e	68	MET	N-CA-C	6.19	118.03	111.28
1	cE	36	VAL	O-C-N	6.19	127.87	121.87
1	cX	195	ASN	N-CA-C	6.19	118.44	109.84
1	dV	190	LEU	O-C-N	-6.19	115.56	122.12
1	ez	136	LEU	O-C-N	-6.19	115.56	122.12
1	f0	49	PRO	N-CA-CB	6.19	110.37	103.44
1	fK	209	ALA	CA-C-O	6.19	127.67	120.49
1	g6	26	VAL	N-CA-C	6.19	116.86	110.36
1	g6	53	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	t	120	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	P	63	GLN	N-CA-C	6.19	118.11	111.36
1	Q	132	ARG	N-CA-C	6.19	118.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9	167	ARG	CD-NE-CZ	6.19	133.06	124.40
1	gz	30	LYS	N-CA-CB	-6.19	102.34	110.88
1	gC	7	GLN	CB-CG-CD	6.19	123.12	112.60
1	gK	193	ASN	OD1-CG-ND2	6.19	128.79	122.60
1	gN	67	GLN	N-CA-C	6.19	117.69	111.07
1	gQ	112	GLN	CA-C-N	6.19	128.48	120.44
1	gQ	112	GLN	C-N-CA	6.19	128.48	120.44
1	gU	172	LEU	CA-C-N	6.19	128.48	120.44
1	gU	172	LEU	C-N-CA	6.19	128.48	120.44
1	gU	187	GLU	N-CA-CB	6.19	118.82	110.59
1	he	126	VAL	N-CA-C	6.19	116.93	110.62
1	1I	32	PHE	CA-CB-CG	-6.19	107.61	113.80
1	hi	87	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	hv	145	TYR	N-CA-C	-6.19	105.31	112.92
1	il	169	TYR	N-CA-CB	6.19	119.83	110.30
1	iQ	154	ARG	NH1-CZ-NH2	-6.19	111.26	119.30
1	iZ	62	HIS	N-CA-C	6.19	119.89	111.17
1	jb	148	THR	O-C-N	-6.19	116.76	123.26
1	jo	148	THR	CA-C-N	6.19	129.50	120.71
1	jo	148	THR	C-N-CA	6.19	129.50	120.71
1	jw	21	ASN	O-C-N	6.19	128.53	122.09
1	jE	165	VAL	N-CA-CB	6.19	118.95	110.54
1	jN	31	ALA	O-C-N	6.19	128.68	122.12
1	jU	154	ARG	CA-C-O	6.19	128.39	121.40
1	jZ	127	GLY	CA-C-N	6.19	128.57	120.28
1	jZ	127	GLY	C-N-CA	6.19	128.57	120.28
1	kk	34	PRO	CA-C-N	6.19	130.59	120.63
1	kk	34	PRO	C-N-CA	6.19	130.59	120.63
1	l3	103	ASP	CA-C-N	6.19	128.36	120.56
1	l3	103	ASP	C-N-CA	6.19	128.36	120.56
1	l8	178	SER	CA-C-N	6.19	128.89	120.54
1	l8	178	SER	C-N-CA	6.19	128.89	120.54
1	lD	144	MET	N-CA-C	6.19	118.83	111.71
1	2r	146	SER	CB-CA-C	6.19	119.23	109.27
1	2G	141	ILE	N-CA-C	6.19	116.93	110.62
1	2X	129	ILE	CA-C-N	6.19	128.49	120.44
1	2X	129	ILE	C-N-CA	6.19	128.49	120.44
1	2X	161	PHE	CB-CA-C	6.19	121.37	110.85
1	3a	19	THR	CA-CB-CG2	6.19	121.02	110.50
1	3j	193	ASN	N-CA-CB	6.19	120.90	110.69
1	3H	129	ILE	CA-C-N	6.19	129.08	120.29
1	3H	129	ILE	C-N-CA	6.19	129.08	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3S	6	LEU	N-CA-C	-6.19	105.37	113.17
1	3S	140	LYS	N-CA-C	6.19	118.11	111.36
1	41	159	GLU	CA-C-N	6.19	127.58	119.84
1	41	159	GLU	C-N-CA	6.19	127.58	119.84
1	41	186	THR	N-CA-C	-6.19	105.67	112.72
1	46	215	MET	CA-C-N	6.19	128.57	120.28
1	46	215	MET	C-N-CA	6.19	128.57	120.28
1	4C	87	HIS	N-CA-C	6.19	119.93	111.39
1	4F	230	VAL	CA-C-N	6.19	132.84	121.70
1	4F	230	VAL	C-N-CA	6.19	132.84	121.70
1	53	97	ARG	O-C-N	-6.19	115.10	122.46
1	5m	227	LYS	CG-CD-CE	6.19	125.53	111.30
1	5w	205	LEU	CA-C-N	6.19	131.58	121.87
1	5w	205	LEU	C-N-CA	6.19	131.58	121.87
1	5W	111	LEU	CA-C-O	-6.19	113.99	120.55
1	6z	123	PRO	N-CD-CG	6.19	112.48	103.20
1	6N	5	ASN	CA-C-N	6.19	132.94	123.47
1	6N	5	ASN	C-N-CA	6.19	132.94	123.47
1	7d	155	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	7j	75	GLU	CA-C-O	6.19	126.98	120.42
1	7q	198	CYS	N-CA-C	6.19	118.03	111.28
1	7Q	120	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	7R	165	VAL	CA-CB-CG2	-6.19	99.88	110.40
1	7S	148	THR	N-CA-C	6.19	119.18	109.96
1	82	76	GLU	N-CA-C	6.19	118.02	111.28
1	84	203	LYS	O-C-N	-6.19	115.56	122.12
1	8o	20	LEU	N-CA-C	6.19	119.00	111.82
1	8G	192	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	8K	134	ILE	O-C-N	-6.19	115.84	121.91
1	8L	132	ARG	CD-NE-CZ	6.19	133.06	124.40
1	8O	121	ASN	OD1-CG-ND2	6.19	128.79	122.60
1	8W	27	VAL	CA-C-N	6.19	128.57	120.28
1	8W	27	VAL	C-N-CA	6.19	128.57	120.28
1	9w	56	LEU	O-C-N	-6.19	115.70	122.07
1	9T	165	VAL	N-CA-C	-6.19	104.71	110.53
1	9W	210	THR	N-CA-C	6.19	118.53	110.43
1	a5	68	MET	CA-C-O	-6.19	113.95	120.63
1	aa	177	ALA	N-CA-C	6.19	118.77	110.35
1	ay	87	HIS	CA-C-N	6.19	132.08	122.49
1	ay	87	HIS	C-N-CA	6.19	132.08	122.49
1	aG	84	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	aT	167	ARG	N-CA-C	6.19	117.69	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aV	225	GLY	CA-C-N	6.19	130.09	120.75
1	aV	225	GLY	C-N-CA	6.19	130.09	120.75
1	aX	18	ARG	NE-CZ-NH1	6.19	127.69	121.50
1	aX	227	LYS	N-CA-C	6.19	118.03	111.28
1	aX	228	ALA	CA-C-O	6.19	126.80	119.56
1	15	15	ILE	CA-C-N	6.19	128.99	120.39
1	15	15	ILE	C-N-CA	6.19	128.99	120.39
1	bc	100	ARG	CA-C-N	6.19	126.96	120.03
1	bc	100	ARG	C-N-CA	6.19	126.96	120.03
1	bt	139	ASN	CA-CB-CG	6.19	118.79	112.60
1	bv	36	VAL	O-C-N	-6.19	115.46	121.83
1	bv	49	PRO	N-CD-CG	6.19	112.48	103.20
1	bH	171	THR	N-CA-C	6.19	118.82	111.33
1	bJ	24	VAL	CA-CB-CG1	6.19	120.92	110.40
1	bT	22	ALA	CA-C-N	6.19	128.48	120.44
1	bT	22	ALA	C-N-CA	6.19	128.48	120.44
1	c6	204	ALA	N-CA-C	6.19	118.10	111.36
1	ca	88	ALA	N-CA-CB	-6.19	101.32	110.97
1	ci	167	ARG	NE-CZ-NH1	6.19	127.69	121.50
1	cm	102	SER	CA-C-N	6.19	129.08	120.29
1	cm	102	SER	C-N-CA	6.19	129.08	120.29
1	cD	129	ILE	O-C-N	-6.19	115.85	121.91
1	cN	141	ILE	O-C-N	-6.19	115.87	121.87
1	di	67	GLN	CA-C-N	6.19	129.08	120.29
1	di	67	GLN	C-N-CA	6.19	129.08	120.29
1	1k	189	LEU	CA-C-N	6.19	128.86	120.38
1	1k	189	LEU	C-N-CA	6.19	128.86	120.38
1	dv	115	ILE	N-CA-C	6.19	118.78	111.05
1	dJ	121	ASN	CA-CB-CG	6.19	118.79	112.60
1	e1	36	VAL	CA-C-N	6.19	125.28	120.33
1	e1	36	VAL	C-N-CA	6.19	125.28	120.33
1	ej	84	HIS	N-CA-C	6.19	117.84	109.24
1	el	87	HIS	CG-CD2-NE2	6.19	113.39	107.20
1	eJ	201	ILE	CA-C-N	6.19	128.86	120.38
1	eJ	201	ILE	C-N-CA	6.19	128.86	120.38
1	f2	107	THR	CA-C-O	6.19	127.09	119.97
1	1v	179	GLN	CB-CG-CD	-6.19	102.08	112.60
1	fb	58	THR	N-CA-C	6.19	120.67	113.18
1	fh	4	GLN	N-CA-CB	6.19	119.17	109.83
1	fs	96	MET	CA-C-O	-6.19	113.99	120.55
1	fy	83	LEU	N-CA-C	6.19	118.03	111.28
1	fL	209	ALA	N-CA-C	6.19	118.77	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fM	193	ASN	OD1-CG-ND2	-6.19	116.41	122.60
1	fO	146	SER	CA-C-N	6.19	126.15	119.78
1	fO	146	SER	C-N-CA	6.19	126.15	119.78
1	fV	217	ALA	N-CA-C	6.19	118.31	110.33
1	i	2	ILE	N-CA-C	6.19	118.03	109.80
1	Q	178	SER	N-CA-C	6.19	118.53	110.43
1	U	180	GLU	N-CA-C	6.19	117.69	111.07
1	5	118	MET	CA-C-O	6.19	127.31	120.63
1	gv	80	TRP	CA-C-N	6.19	129.07	120.29
1	gv	80	TRP	C-N-CA	6.19	129.07	120.29
1	gE	173	ARG	O-C-N	-6.19	115.56	122.12
1	gZ	81	ASP	CA-CB-CG	6.19	118.79	112.60
1	1I	85	PRO	N-CA-CB	6.19	109.75	103.25
1	hr	49	PRO	N-CA-CB	6.19	109.75	103.25
1	ht	211	LEU	N-CA-C	6.19	118.02	111.28
1	hv	224	PRO	N-CA-CB	-6.19	97.80	103.31
1	hB	177	ALA	N-CA-C	6.19	119.01	110.35
1	iC	216	THR	N-CA-C	6.19	117.69	111.07
1	jj	26	VAL	N-CA-C	6.19	116.36	110.42
1	ju	100	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	jM	18	ARG	O-C-N	-6.19	115.56	122.12
1	kw	166	ASP	CA-CB-CG	6.19	118.79	112.60
1	kJ	87	HIS	ND1-CE1-NE2	6.19	114.59	108.40
1	kU	181	VAL	CA-C-N	6.19	128.57	120.28
1	kU	181	VAL	C-N-CA	6.19	128.57	120.28
1	l3	154	ARG	NE-CZ-NH2	6.19	124.77	119.20
1	lu	104	ILE	CB-CA-C	-6.19	102.57	112.16
1	32	28	GLU	CA-C-N	6.19	129.07	120.29
1	32	28	GLU	C-N-CA	6.19	129.07	120.29
1	3u	144	MET	N-CA-C	6.19	117.82	111.14
1	3H	37	ILE	N-CA-CB	6.19	114.40	110.50
1	3K	179	GLN	CA-C-O	6.19	127.11	120.55
1	3Q	177	ALA	CA-C-N	6.19	131.32	120.87
1	3Q	177	ALA	C-N-CA	6.19	131.32	120.87
1	4r	10	MET	N-CA-C	6.19	119.03	109.07
1	4v	22	ALA	CA-C-N	6.19	128.57	120.28
1	4v	22	ALA	C-N-CA	6.19	128.57	120.28
1	4A	50	GLN	CB-CG-CD	6.19	123.12	112.60
1	4K	191	VAL	N-CA-C	6.19	116.97	110.72
1	4Y	143	ARG	O-C-N	-6.19	115.10	122.15
1	5c	177	ALA	N-CA-C	6.19	119.24	109.96
1	5D	164	TYR	CB-CG-CD2	-6.19	111.52	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6F	50	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	6H	154	ARG	NE-CZ-NH2	-6.19	113.63	119.20
1	6H	201	ILE	CA-C-O	-6.19	114.52	120.95
1	78	146	SER	CA-C-N	6.19	127.57	119.84
1	78	146	SER	C-N-CA	6.19	127.57	119.84
1	7b	124	ILE	N-CA-C	-6.19	95.52	108.88
1	7x	69	LEU	CA-C-N	6.19	128.57	120.28
1	7x	69	LEU	C-N-CA	6.19	128.57	120.28
1	7B	84	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	7I	85	PRO	N-CA-C	6.19	121.34	111.26
1	7M	73	ILE	CA-C-N	6.19	128.57	120.28
1	7M	73	ILE	C-N-CA	6.19	128.57	120.28
1	8a	46	GLY	N-CA-C	6.19	124.21	115.30
1	9N	136	LEU	N-CA-C	6.19	118.81	111.33
1	9X	123	PRO	N-CA-C	6.19	120.93	111.34
1	aq	121	ASN	CA-CB-CG	6.19	118.79	112.60
1	au	45	GLU	O-C-N	-6.19	115.26	122.87
1	aO	119	THR	CA-C-O	6.19	126.78	119.48
1	b4	92	GLU	N-CA-C	6.19	117.60	109.93
1	bs	162	ARG	O-C-N	-6.19	115.56	122.12
1	bH	53	ASN	CA-C-O	6.19	126.98	119.31
1	c4	62	HIS	ND1-CG-CD2	6.19	112.29	106.10
1	cA	138	LEU	N-CA-C	6.19	118.02	111.28
1	cI	50	GLN	CB-CA-C	-6.19	100.52	110.79
1	d7	167	ARG	CG-CD-NE	-6.19	98.39	112.00
1	do	4	GLN	CB-CA-C	6.19	120.92	109.54
1	dK	163	ASP	N-CA-C	6.19	118.02	111.28
1	dP	51	ASP	O-C-N	6.19	131.37	122.28
1	ee	154	ARG	NE-CZ-NH1	6.19	127.69	121.50
1	1r	12	HIS	CE1-NE2-CD2	-6.19	102.81	109.00
1	eW	196	PRO	N-CA-CB	6.19	109.75	103.25
1	eZ	194	ALA	N-CA-C	6.19	118.69	110.53
1	fk	9	GLN	OE1-CD-NE2	-6.19	116.41	122.60
1	fD	226	HIS	N-CA-C	6.19	117.69	111.07
1	fM	103	ASP	CA-C-N	6.19	128.48	120.56
1	fM	103	ASP	C-N-CA	6.19	128.48	120.56
1	g2	221	VAL	CB-CA-C	-6.19	105.62	111.06
1	1	216	THR	N-CA-CB	6.19	119.21	110.12
1	M	84	HIS	CA-C-N	6.19	127.57	119.84
1	M	84	HIS	C-N-CA	6.19	127.57	119.84
1	gb	177	ALA	O-C-N	-6.18	114.90	122.82
1	gd	143	ARG	N-CA-CB	-6.18	101.44	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gB	76	GLU	CA-C-O	-6.18	112.86	119.97
1	gU	11	VAL	O-C-N	-6.18	116.50	123.18
1	h5	59	VAL	O-C-N	-6.18	115.83	122.45
1	h6	117	TRP	CD2-CE3-CZ3	6.18	126.64	118.60
1	hG	171	THR	O-C-N	-6.18	115.70	122.07
1	hH	161	PHE	CA-C-N	6.18	129.41	120.38
1	hH	161	PHE	C-N-CA	6.18	129.41	120.38
1	hY	178	SER	CA-C-N	6.18	128.57	120.28
1	hY	178	SER	C-N-CA	6.18	128.57	120.28
1	hY	227	LYS	N-CA-C	6.18	123.97	110.80
1	i2	179	GLN	CA-C-O	6.18	127.11	120.55
1	1N	42	ALA	N-CA-C	6.18	117.71	110.97
1	i9	154	ARG	NE-CZ-NH1	6.18	127.68	121.50
1	1P	28	GLU	N-CA-C	6.18	117.82	111.14
1	iB	195	ASN	CA-C-O	-6.18	113.74	120.17
1	iL	14	ALA	CA-C-N	6.18	129.72	120.69
1	iL	14	ALA	C-N-CA	6.18	129.72	120.69
1	jB	134	ILE	CA-C-O	6.18	127.72	121.17
1	jC	162	ARG	NE-CZ-NH2	6.18	124.77	119.20
1	jQ	179	GLN	N-CA-C	6.18	118.82	111.71
1	jW	41	SER	CA-C-N	6.18	129.71	120.31
1	jW	41	SER	C-N-CA	6.18	129.71	120.31
1	k4	187	GLU	CA-C-O	-6.18	113.86	120.42
1	kb	30	LYS	CA-C-N	6.18	133.35	121.54
1	kb	30	LYS	C-N-CA	6.18	133.35	121.54
1	kv	42	ALA	N-CA-C	6.18	118.02	111.28
1	kT	188	THR	CA-C-O	6.18	127.51	120.71
1	kY	19	THR	O-C-N	-6.18	115.70	122.07
1	l8	5	ASN	OD1-CG-ND2	6.18	128.78	122.60
1	la	207	PRO	CA-C-N	6.18	131.38	122.35
1	la	207	PRO	C-N-CA	6.18	131.38	122.35
1	lb	53	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	lg	74	ASN	O-C-N	-6.18	114.14	122.43
1	ll	204	ALA	N-CA-C	-6.18	105.56	113.23
1	lH	130	TYR	CA-C-N	6.18	128.89	120.54
1	lH	130	TYR	C-N-CA	6.18	128.89	120.54
1	lN	184	TRP	CA-C-N	6.18	128.48	120.44
1	lN	184	TRP	C-N-CA	6.18	128.48	120.44
1	lO	50	GLN	CA-C-N	6.18	128.48	120.44
1	lO	50	GLN	C-N-CA	6.18	128.48	120.44
1	2f	176	GLN	CB-CA-C	6.18	119.92	109.84
1	2T	168	PHE	N-CA-C	6.18	117.69	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	30	74	ASN	CB-CA-C	-6.18	100.92	110.81
1	3f	42	ALA	N-CA-C	6.18	118.02	111.28
1	3f	194	ALA	N-CA-CB	6.18	118.85	110.38
1	3r	102	SER	N-CA-C	6.18	118.02	111.28
1	3C	154	ARG	NE-CZ-NH2	-6.18	113.63	119.20
1	3F	169	TYR	N-CA-CB	6.18	120.48	110.40
1	3M	87	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	3O	156	GLY	CA-C-N	6.18	125.92	119.05
1	3O	156	GLY	C-N-CA	6.18	125.92	119.05
1	3S	213	GLU	CB-CG-CD	6.18	123.11	112.60
1	4g	39	MET	CA-C-N	6.18	129.19	120.28
1	4g	39	MET	C-N-CA	6.18	129.19	120.28
1	4y	64	ALA	N-CA-C	6.18	117.69	111.07
1	5l	130	TYR	CA-C-N	6.18	129.07	120.29
1	5l	130	TYR	C-N-CA	6.18	129.07	120.29
1	5m	102	SER	O-C-N	-6.18	113.99	122.46
1	5x	5	ASN	CA-C-O	6.18	129.35	120.51
1	5x	190	LEU	CA-C-N	6.18	130.44	120.30
1	5x	190	LEU	C-N-CA	6.18	130.44	120.30
1	63	25	LYS	N-CA-C	6.18	118.10	111.36
1	6a	29	GLU	N-CA-C	6.18	117.90	111.03
1	6t	206	GLY	O-C-N	-6.18	115.59	121.77
1	6A	120	HIS	CA-C-O	-6.18	114.82	121.56
1	6M	66	MET	CG-SD-CE	-6.18	87.29	100.90
1	6R	152	ASP	CB-CA-C	-6.18	100.33	110.85
1	6X	75	GLU	CA-C-N	6.18	129.07	120.29
1	6X	75	GLU	C-N-CA	6.18	129.07	120.29
1	6Z	133	TRP	CB-CG-CD2	-6.18	118.14	126.80
1	72	50	GLN	CA-C-O	-6.18	114.33	120.82
1	79	197	ASP	CA-CB-CG	-6.18	106.42	112.60
1	79	209	ALA	N-CA-C	6.18	123.97	110.80
1	7p	47	ALA	CB-CA-C	6.18	120.69	109.62
1	7p	226	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	7w	98	GLU	O-C-N	-6.18	114.50	121.43
1	7x	77	ALA	CA-C-O	-6.18	114.28	120.90
1	7y	163	ASP	CB-CA-C	-6.18	100.33	110.85
1	7K	189	LEU	N-CA-CB	6.18	118.98	110.01
1	8r	215	MET	N-CA-C	6.18	118.10	111.36
1	91	48	THR	O-C-N	-6.18	114.73	121.53
1	99	161	PHE	O-C-N	-6.18	115.56	122.12
1	9l	109	SER	N-CA-C	6.18	119.48	109.40
1	9A	43	LEU	CA-C-O	6.18	127.11	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9M	45	GLU	N-CA-CB	-6.18	100.70	110.22
1	ah	99	PRO	N-CA-C	6.18	121.34	111.26
1	ah	191	VAL	N-CA-C	-6.18	105.69	112.80
1	al	197	ASP	N-CA-C	-6.18	105.73	113.28
1	aw	46	GLY	CA-C-N	6.18	129.61	120.95
1	aw	46	GLY	C-N-CA	6.18	129.61	120.95
1	aw	202	LEU	CA-C-N	-6.18	112.40	120.44
1	aw	202	LEU	C-N-CA	-6.18	112.40	120.44
1	aZ	111	LEU	CA-C-O	6.18	127.11	120.55
1	bm	223	GLY	O-C-N	-6.18	115.59	121.77
1	bV	208	ALA	CA-C-N	6.18	129.62	120.90
1	bV	208	ALA	C-N-CA	6.18	129.62	120.90
1	bY	152	ASP	CA-CB-CG	-6.18	106.42	112.60
1	bZ	81	ASP	N-CA-C	-6.18	104.62	111.36
1	cb	112	GLN	O-C-N	-6.18	114.98	122.22
1	cc	101	GLY	CA-C-O	6.18	126.86	120.80
1	cg	118	MET	N-CA-C	6.18	117.69	111.07
1	cx	118	MET	N-CA-C	6.18	118.99	111.82
1	cF	205	LEU	N-CA-C	-6.18	104.10	112.26
1	cM	130	TYR	O-C-N	-6.18	115.56	122.12
1	cP	7	GLN	O-C-N	-6.18	111.87	122.20
1	da	113	GLU	CA-C-N	6.18	129.71	120.31
1	da	113	GLU	C-N-CA	6.18	129.71	120.31
1	dB	164	TYR	CA-C-N	6.18	128.35	120.56
1	dB	164	TYR	C-N-CA	6.18	128.35	120.56
1	dI	112	GLN	N-CA-C	6.18	118.02	111.28
1	ee	41	SER	CA-C-N	6.18	128.57	120.28
1	ee	41	SER	C-N-CA	6.18	128.57	120.28
1	eo	98	GLU	N-CA-C	6.18	118.59	109.50
1	ep	226	HIS	CA-CB-CG	6.18	119.98	113.80
1	1r	139	ASN	N-CA-C	6.18	118.02	111.28
1	eI	199	LYS	N-CA-CB	6.18	119.34	110.06
1	eJ	64	ALA	O-C-N	-6.18	115.56	122.12
1	eL	37	ILE	N-CA-C	6.18	119.77	112.35
1	eS	198	CYS	CA-C-N	6.18	128.57	120.28
1	eS	198	CYS	C-N-CA	6.18	128.57	120.28
1	fL	10	MET	CG-SD-CE	-6.18	87.29	100.90
1	1A	132	ARG	O-C-N	-6.18	115.70	122.07
1	g1	103	ASP	CA-C-N	6.18	129.20	120.42
1	g1	103	ASP	C-N-CA	6.18	129.20	120.42
1	s	219	GLN	N-CA-C	6.18	119.20	110.23
1	D	145	TYR	N-CA-C	6.18	117.82	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	I	92	GLU	O-C-N	-6.18	113.49	121.10
1	J	195	ASN	CA-C-N	6.18	127.57	119.84
1	J	195	ASN	C-N-CA	6.18	127.57	119.84
1	R	156	GLY	CA-C-N	6.18	126.08	119.28
1	R	156	GLY	C-N-CA	6.18	126.08	119.28
1	7	120	HIS	CA-CB-CG	6.18	119.98	113.80
1	gi	140	LYS	N-CA-C	6.18	117.69	111.07
1	gq	171	THR	CA-C-N	6.18	128.57	120.28
1	gq	171	THR	C-N-CA	6.18	128.57	120.28
1	gu	105	ALA	N-CA-C	-6.18	105.31	112.92
1	gM	4	GLN	N-CA-C	6.18	118.71	109.25
1	gO	215	MET	CA-C-O	6.18	127.10	120.55
1	hf	51	ASP	CA-C-N	6.18	129.07	120.29
1	hf	51	ASP	C-N-CA	6.18	129.07	120.29
1	hm	180	GLU	N-CA-C	6.18	117.69	111.07
1	hN	62	HIS	ND1-CG-CD2	6.18	112.28	106.10
1	hT	35	GLU	CA-C-O	6.18	127.02	119.11
1	i2	129	ILE	CB-CA-C	-6.18	103.92	112.02
1	i6	98	GLU	N-CA-C	6.18	118.59	109.50
1	i6	129	ILE	CB-CA-C	-6.18	104.08	111.81
1	ic	190	LEU	N-CA-CB	-6.18	101.03	110.12
1	ig	29	GLU	N-CA-C	6.18	117.69	111.07
1	ir	77	ALA	CB-CA-C	-6.18	100.92	110.81
1	iC	68	MET	CA-C-N	6.18	128.89	120.54
1	iC	68	MET	C-N-CA	6.18	128.89	120.54
1	iJ	86	VAL	CA-C-O	6.18	127.85	121.23
1	j0	57	ASN	O-C-N	-6.18	114.61	122.34
1	1T	170	LYS	CA-C-N	6.18	128.56	120.28
1	1T	170	LYS	C-N-CA	6.18	128.56	120.28
1	j9	115	ILE	CA-C-N	6.18	126.80	119.94
1	j9	115	ILE	C-N-CA	6.18	126.80	119.94
1	jq	37	ILE	N-CA-C	6.18	122.23	108.88
1	jy	191	VAL	N-CA-CB	6.18	118.95	110.54
1	jz	44	SER	CB-CA-C	-6.18	101.00	111.02
1	jz	134	ILE	N-CA-CB	6.18	117.78	110.55
1	kn	9	GLN	O-C-N	-6.18	116.10	123.27
1	kB	187	GLU	N-CA-C	-6.18	105.31	112.92
1	kD	136	LEU	CA-C-N	6.18	126.80	120.00
1	kD	136	LEU	C-N-CA	6.18	126.80	120.00
1	kF	87	HIS	CA-CB-CG	-6.18	107.62	113.80
1	kF	111	LEU	O-C-N	-6.18	115.57	122.12
1	kH	51	ASP	CA-CB-CG	-6.18	106.42	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kI	173	ARG	N-CA-C	6.18	118.02	111.28
1	kM	54	THR	CA-C-N	6.18	128.56	120.28
1	kM	54	THR	C-N-CA	6.18	128.56	120.28
1	25	53	ASN	CA-CB-CG	6.18	118.78	112.60
1	lf	122	PRO	CA-C-N	6.18	126.09	119.85
1	lf	122	PRO	C-N-CA	6.18	126.09	119.85
1	lj	155	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	lp	64	ALA	N-CA-C	6.18	118.02	111.28
1	lJ	39	MET	CA-C-O	-6.18	114.28	120.90
1	2r	226	HIS	CA-CB-CG	-6.18	107.62	113.80
1	2G	29	GLU	N-CA-C	6.18	117.89	111.03
1	2P	41	SER	O-C-N	-6.18	115.41	122.09
1	3M	120	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	3P	78	ALA	CA-C-N	6.18	128.48	120.44
1	3P	78	ALA	C-N-CA	6.18	128.48	120.44
1	4h	64	ALA	CA-C-N	6.18	129.07	120.29
1	4h	64	ALA	C-N-CA	6.18	129.07	120.29
1	4J	54	THR	N-CA-CB	6.18	118.97	110.01
1	4O	226	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	4P	48	THR	CA-CB-OG1	6.18	118.88	109.60
1	4Q	64	ALA	CA-C-N	6.18	129.38	120.79
1	4Q	64	ALA	C-N-CA	6.18	129.38	120.79
1	4U	84	HIS	CA-C-O	-6.18	113.61	119.55
1	4X	78	ALA	CA-C-N	6.18	129.71	120.31
1	4X	78	ALA	C-N-CA	6.18	129.71	120.31
1	53	226	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	59	145	TYR	CB-CG-CD1	6.18	130.07	120.80
1	5j	35	GLU	N-CA-C	-6.18	105.74	113.28
1	5p	111	LEU	CA-C-N	6.18	128.89	120.54
1	5p	111	LEU	C-N-CA	6.18	128.89	120.54
1	5z	123	PRO	N-CA-C	6.18	120.94	111.11
1	5C	185	MET	N-CA-C	6.18	118.02	111.28
1	5D	183	ASN	CA-CB-CG	-6.18	106.42	112.60
1	5M	164	TYR	N-CA-C	6.18	117.69	111.07
1	66	10	MET	N-CA-C	6.18	120.20	111.92
1	6j	58	THR	N-CA-CB	6.18	120.80	110.41
1	6s	229	ARG	NE-CZ-NH1	6.18	127.68	121.50
1	6J	120	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	75	131	LYS	N-CA-C	6.18	118.81	111.33
1	77	21	ASN	CA-CB-CG	-6.18	106.42	112.60
1	7n	186	THR	O-C-N	-6.18	115.57	122.12
1	7r	153	ILE	O-C-N	-6.18	115.87	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	110	THR	O-C-N	-6.18	115.45	122.68
1	7U	24	VAL	N-CA-C	6.18	116.93	110.62
1	83	141	ILE	N-CA-C	6.18	116.36	110.42
1	8e	87	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	8n	71	GLU	O-C-N	-6.18	115.10	122.15
1	8Z	81	ASP	N-CA-CB	-6.18	101.32	110.53
1	8Z	107	THR	CA-C-N	6.18	130.91	122.19
1	8Z	107	THR	C-N-CA	6.18	130.91	122.19
1	9c	18	ARG	N-CA-C	6.18	118.02	111.28
1	9m	33	SER	CA-C-O	-6.18	114.26	120.63
1	Y	100	ARG	CA-C-N	6.18	128.07	120.22
1	Y	100	ARG	C-N-CA	6.18	128.07	120.22
1	9X	44	SER	CA-C-O	6.18	126.76	119.28
1	a9	3	VAL	N-CA-C	-6.18	99.58	108.42
1	ac	51	ASP	CA-C-N	6.18	129.07	120.29
1	ac	51	ASP	C-N-CA	6.18	129.07	120.29
1	ax	175	GLU	N-CA-CB	6.18	119.06	109.97
1	aH	37	ILE	CA-C-O	-6.18	114.55	118.69
1	aQ	139	ASN	N-CA-C	6.18	118.02	111.28
1	bd	92	GLU	CA-C-N	6.18	127.57	119.84
1	bd	92	GLU	C-N-CA	6.18	127.57	119.84
1	bf	213	GLU	CA-C-N	6.18	129.07	120.29
1	bf	213	GLU	C-N-CA	6.18	129.07	120.29
1	bp	63	GLN	N-CA-C	6.18	120.08	112.54
1	bM	12	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	bM	181	VAL	N-CA-C	6.18	116.36	110.42
1	bP	199	LYS	CA-C-O	-6.18	114.00	120.55
1	bQ	164	TYR	CA-C-N	6.18	128.35	120.56
1	bQ	164	TYR	C-N-CA	6.18	128.35	120.56
1	bX	228	ALA	N-CA-CB	-6.18	99.96	110.16
1	c1	20	LEU	O-C-N	-6.18	115.10	122.15
1	c1	139	ASN	N-CA-C	6.18	118.81	111.33
1	ca	142	VAL	CB-CA-C	6.18	119.54	111.81
1	ck	151	LEU	CA-C-N	6.18	131.19	120.68
1	ck	151	LEU	C-N-CA	6.18	131.19	120.68
1	cp	184	TRP	CG-CD2-CE3	6.18	140.08	133.90
1	cv	206	GLY	CA-C-N	6.18	126.20	119.89
1	cv	206	GLY	C-N-CA	6.18	126.20	119.89
1	cA	136	LEU	CA-C-N	6.18	126.84	119.98
1	cA	136	LEU	C-N-CA	6.18	126.84	119.98
1	cK	40	PHE	CA-C-N	6.18	128.56	120.28
1	cK	40	PHE	C-N-CA	6.18	128.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	df	166	ASP	CA-CB-CG	6.18	118.78	112.60
1	dz	221	VAL	O-C-N	-6.18	116.69	123.18
1	dD	194	ALA	CA-C-O	6.18	127.97	120.92
1	dO	152	ASP	CA-C-O	6.18	127.09	119.05
1	eP	138	LEU	O-C-N	-6.18	115.57	122.12
1	f0	20	LEU	CA-C-N	6.18	128.48	120.44
1	f0	20	LEU	C-N-CA	6.18	128.48	120.44
1	f5	30	LYS	N-CA-C	-6.18	105.31	112.92
1	f5	182	LYS	N-CA-C	6.18	117.69	111.07
1	ft	114	GLN	CA-C-N	6.18	130.24	120.47
1	ft	114	GLN	C-N-CA	6.18	130.24	120.47
1	fD	62	HIS	CG-CD2-NE2	-6.18	101.02	107.20
1	fZ	141	ILE	N-CA-C	6.18	116.93	110.62
1	g6	178	SER	N-CA-C	6.18	118.50	110.53
1	0	5	ASN	CA-C-N	6.18	129.18	120.28
1	0	5	ASN	C-N-CA	6.18	129.18	120.28
1	p	153	ILE	N-CA-CB	6.18	117.68	110.82
1	y	91	ILE	CA-C-N	6.18	128.98	120.39
1	y	91	ILE	C-N-CA	6.18	128.98	120.39
1	C	17	PRO	CA-C-N	6.18	128.88	120.54
1	C	17	PRO	C-N-CA	6.18	128.88	120.54
1	C	139	ASN	N-CA-CB	6.18	119.21	110.12
1	K	129	ILE	N-CA-C	6.18	116.36	110.42
1	gI	23	TRP	CB-CG-CD2	6.18	135.45	126.80
1	gI	102	SER	N-CA-C	6.18	117.68	111.07
1	gU	140	LYS	N-CA-C	6.18	117.68	111.07
1	gX	57	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	h3	151	LEU	CA-C-O	6.18	126.97	120.42
1	1H	122	PRO	CA-C-N	6.18	127.57	119.84
1	1H	122	PRO	C-N-CA	6.18	127.57	119.84
1	ix	82	ARG	CD-NE-CZ	-6.18	115.75	124.40
1	jo	37	ILE	N-CA-CB	6.18	115.27	110.45
1	jt	211	LEU	N-CA-C	-6.18	105.74	113.28
1	jF	12	HIS	N-CA-C	6.18	123.97	110.80
1	jQ	67	GLN	N-CA-C	6.18	118.99	111.82
1	k6	153	ILE	CA-CB-CG2	-6.18	99.99	110.50
1	kb	94	GLY	N-CA-C	-6.18	106.58	114.37
1	28	84	HIS	CA-C-N	6.18	126.19	119.89
1	28	84	HIS	C-N-CA	6.18	126.19	119.89
1	lA	64	ALA	N-CA-C	6.18	117.68	111.07
1	lO	70	LYS	N-CA-C	6.18	118.02	111.28
1	38	191	VAL	N-CA-C	6.18	116.92	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3X	26	VAL	O-C-N	6.18	127.86	121.87
1	44	9	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	4A	159	GLU	N-CA-C	6.18	118.61	110.08
1	5u	49	PRO	N-CA-C	6.18	122.96	113.75
1	68	68	MET	CA-C-N	6.18	128.56	120.28
1	68	68	MET	C-N-CA	6.18	128.56	120.28
1	6g	71	GLU	CA-C-N	6.18	129.71	120.31
1	6g	71	GLU	C-N-CA	6.18	129.71	120.31
1	7b	70	LYS	N-CA-C	6.18	118.02	111.28
1	7g	178	SER	CA-C-O	-6.18	114.77	120.95
1	7l	95	GLN	N-CA-C	6.18	120.00	110.42
1	7l	193	ASN	OD1-CG-ND2	6.18	128.78	122.60
1	8f	91	ILE	N-CA-C	6.18	119.55	109.78
1	8i	42	ALA	N-CA-C	6.18	118.10	111.36
1	8X	54	THR	CA-C-N	6.18	128.47	120.44
1	8X	54	THR	C-N-CA	6.18	128.47	120.44
1	9T	200	THR	CA-C-N	6.18	128.35	120.56
1	9T	200	THR	C-N-CA	6.18	128.35	120.56
1	Z	120	HIS	CA-CB-CG	6.18	119.98	113.80
1	aW	29	GLU	N-CA-C	6.18	118.10	111.36
1	bC	15	ILE	CA-CB-CG2	6.18	121.01	110.50
1	ci	82	ARG	N-CA-C	-6.18	104.46	111.07
1	cv	73	ILE	N-CA-C	6.18	116.35	110.42
1	cx	57	ASN	N-CA-CB	-6.18	100.33	110.40
1	d9	219	GLN	CA-C-N	6.18	131.52	120.77
1	d9	219	GLN	C-N-CA	6.18	131.52	120.77
1	dM	52	LEU	N-CA-C	6.18	118.53	111.11
1	dP	16	SER	CA-C-N	6.18	125.59	118.85
1	dP	16	SER	C-N-CA	6.18	125.59	118.85
1	dS	44	SER	O-C-N	-6.18	114.75	122.35
1	e6	26	VAL	CA-C-O	-6.18	114.62	121.17
1	es	22	ALA	CA-C-O	6.18	127.10	120.24
1	eZ	62	HIS	N-CA-C	6.18	119.77	111.24
1	fk	18	ARG	N-CA-C	6.18	118.02	111.28
1	r	190	LEU	CA-C-O	6.18	127.31	120.82
1	2	133	TRP	O-C-N	-6.18	115.57	122.12
1	V	22	ALA	O-C-N	-6.18	115.70	122.07
1	gm	58	THR	O-C-N	-6.18	113.64	122.41
1	gq	3	VAL	CA-C-N	6.18	131.44	122.36
1	gq	3	VAL	C-N-CA	6.18	131.44	122.36
1	gw	10	MET	CB-CA-C	-6.18	98.12	110.42
1	gw	189	LEU	CA-C-N	6.18	128.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gw	189	LEU	C-N-CA	6.18	128.47	120.44
1	gK	36	VAL	CA-C-N	6.18	124.13	120.24
1	gK	36	VAL	C-N-CA	6.18	124.13	120.24
1	gT	21	ASN	CA-C-O	-6.18	114.33	120.82
1	h2	190	LEU	N-CA-C	6.18	118.02	111.28
1	h8	226	HIS	O-C-N	-6.18	115.71	122.07
1	ht	53	ASN	N-CA-C	6.18	118.02	111.28
1	hx	2	ILE	N-CA-C	-6.18	99.46	108.11
1	hy	9	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	hy	152	ASP	CA-C-N	6.18	128.85	120.63
1	hy	152	ASP	C-N-CA	6.18	128.85	120.63
1	hH	59	VAL	O-C-N	-6.18	115.93	122.67
1	iv	15	ILE	N-CA-C	6.18	117.27	108.93
1	1Q	12	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	iH	104	ILE	CA-C-O	6.18	127.72	121.17
1	iM	132	ARG	CG-CD-NE	-6.18	98.41	112.00
1	j1	4	GLN	N-CA-C	6.18	118.52	110.43
1	jm	143	ARG	CG-CD-NE	-6.18	98.40	112.00
1	ju	152	ASP	CA-C-N	6.18	129.02	120.49
1	ju	152	ASP	C-N-CA	6.18	129.02	120.49
1	jv	5	ASN	CB-CG-ND2	6.18	125.67	116.40
1	jA	126	VAL	N-CA-C	6.18	118.77	111.05
1	jZ	12	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	k7	21	ASN	CB-CG-OD1	6.18	133.16	120.80
1	ki	162	ARG	CD-NE-CZ	6.18	133.05	124.40
1	21	87	HIS	O-C-N	-6.18	115.21	122.81
1	ks	216	THR	CA-C-N	6.18	130.08	120.75
1	ks	216	THR	C-N-CA	6.18	130.08	120.75
1	ku	156	GLY	O-C-N	-6.18	115.59	121.77
1	24	84	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	kR	145	TYR	CA-C-O	6.18	125.94	119.14
1	26	160	PRO	CA-C-N	6.18	131.95	121.14
1	26	160	PRO	C-N-CA	6.18	131.95	121.14
1	la	54	THR	CA-C-O	6.18	127.10	120.55
1	ls	88	ALA	CA-C-O	6.18	128.03	120.92
1	lL	139	ASN	CA-CB-CG	6.18	118.78	112.60
1	2F	41	SER	CA-C-N	6.18	128.47	120.44
1	2F	41	SER	C-N-CA	6.18	128.47	120.44
1	2U	67	GLN	CB-CG-CD	6.18	123.10	112.60
1	2Z	143	ARG	CA-C-N	6.18	129.40	120.38
1	2Z	143	ARG	C-N-CA	6.18	129.40	120.38
1	3O	191	VAL	N-CA-C	6.18	117.66	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3R	176	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	3T	219	GLN	CB-CG-CD	-6.18	102.09	112.60
1	3U	203	LYS	N-CA-C	6.18	118.02	111.28
1	3W	50	GLN	CA-C-N	6.18	128.47	120.44
1	3W	50	GLN	C-N-CA	6.18	128.47	120.44
1	3Y	62	HIS	CA-C-N	6.18	128.47	120.44
1	3Y	62	HIS	C-N-CA	6.18	128.47	120.44
1	4y	42	ALA	N-CA-C	6.18	118.02	111.28
1	4I	150	ILE	O-C-N	-6.18	115.63	121.87
1	4X	179	GLN	CA-C-N	6.18	128.56	120.28
1	4X	179	GLN	C-N-CA	6.18	128.56	120.28
1	5g	201	ILE	O-C-N	-6.18	115.88	121.87
1	5l	16	SER	CA-C-N	6.18	125.67	119.24
1	5l	16	SER	C-N-CA	6.18	125.67	119.24
1	5l	32	PHE	N-CA-CB	6.18	120.55	110.17
1	5o	10	MET	CG-SD-CE	-6.18	87.30	100.90
1	5q	135	ILE	CA-C-N	6.18	128.56	120.28
1	5q	135	ILE	C-N-CA	6.18	128.56	120.28
1	5M	84	HIS	CA-CB-CG	-6.18	107.62	113.80
1	5R	86	VAL	O-C-N	-6.18	115.87	122.61
1	6f	34	PRO	CA-C-N	6.18	129.06	120.29
1	6f	34	PRO	C-N-CA	6.18	129.06	120.29
1	6m	124	ILE	CB-CA-C	-6.18	103.76	110.37
1	6q	2	ILE	CA-C-N	6.18	130.93	122.34
1	6q	2	ILE	C-N-CA	6.18	130.93	122.34
1	6x	230	VAL	N-CA-C	6.18	116.92	110.62
1	6F	14	ALA	N-CA-C	6.18	119.43	110.28
1	7B	92	GLU	N-CA-C	6.18	116.71	109.60
1	7O	86	VAL	CA-CB-CG1	6.18	120.91	110.40
1	7V	162	ARG	CB-CA-C	6.18	120.70	110.81
1	92	205	LEU	O-C-N	-6.18	115.42	122.09
1	9o	161	PHE	CA-C-N	6.18	131.01	121.19
1	9o	161	PHE	C-N-CA	6.18	131.01	121.19
1	9q	208	ALA	N-CA-C	6.18	118.36	108.41
1	a7	100	ARG	NH1-CZ-NH2	-6.18	111.27	119.30
1	aa	226	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	av	42	ALA	CB-CA-C	6.18	121.19	110.68
1	aE	61	GLY	CA-C-N	6.18	130.93	122.34
1	aE	61	GLY	C-N-CA	6.18	130.93	122.34
1	aQ	220	GLY	CA-C-O	6.18	124.94	119.56
1	aS	21	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	b8	124	ILE	N-CA-CB	6.18	119.62	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	br	183	ASN	CA-CB-CG	-6.18	106.42	112.60
1	bs	138	LEU	CA-C-N	6.18	129.18	120.28
1	bs	138	LEU	C-N-CA	6.18	129.18	120.28
1	bu	44	SER	O-C-N	-6.18	114.71	122.19
1	1b	126	VAL	O-C-N	-6.18	115.66	121.90
1	bZ	107	THR	CA-C-O	6.18	126.39	119.41
1	cv	183	ASN	CA-CB-CG	-6.18	106.42	112.60
1	cA	130	TYR	CA-C-N	6.18	129.18	120.28
1	cA	130	TYR	C-N-CA	6.18	129.18	120.28
1	cI	68	MET	O-C-N	-6.18	114.99	122.22
1	df	201	ILE	N-CA-C	6.18	116.92	110.62
1	di	56	LEU	CA-C-N	6.18	128.85	120.38
1	di	56	LEU	C-N-CA	6.18	128.85	120.38
1	di	203	LYS	O-C-N	-6.18	115.57	122.12
1	du	73	ILE	CB-CG1-CD1	6.18	126.78	113.80
1	dA	169	TYR	N-CA-C	6.18	118.02	111.28
1	dB	197	ASP	N-CA-C	6.18	118.99	111.82
1	dO	100	ARG	NE-CZ-NH1	6.18	127.68	121.50
1	dR	186	THR	O-C-N	6.18	128.44	122.07
1	dU	8	GLY	O-C-N	-6.18	116.59	122.65
1	eI	193	ASN	N-CA-C	-6.18	105.02	113.30
1	f7	146	SER	N-CA-CB	-6.18	102.18	110.77
1	fH	3	VAL	O-C-N	-6.18	116.04	123.02
1	fI	202	LEU	CA-C-N	6.18	128.56	120.28
1	fI	202	LEU	C-N-CA	6.18	128.56	120.28
1	t	162	ARG	CA-C-O	-6.18	114.00	120.55
1	5	32	PHE	CB-CG-CD2	-6.18	110.19	120.70
1	8	56	LEU	N-CA-CB	6.18	119.86	110.28
1	gD	126	VAL	O-C-N	-6.18	115.63	121.87
1	gT	100	ARG	CA-C-N	6.18	126.95	120.03
1	gT	100	ARG	C-N-CA	6.18	126.95	120.03
1	h2	130	TYR	N-CA-C	6.18	118.09	111.36
1	io	154	ARG	NE-CZ-NH1	6.18	127.68	121.50
1	it	62	HIS	N-CA-C	6.18	119.94	111.54
1	iP	37	ILE	CA-C-O	6.18	122.83	118.69
1	ja	80	TRP	N-CA-CB	-6.18	101.04	110.12
1	jd	179	GLN	N-CA-C	6.18	118.81	111.71
1	jT	95	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	jV	135	ILE	CB-CA-C	6.18	119.88	111.97
1	kf	119	THR	CA-C-N	6.18	130.64	120.94
1	kf	119	THR	C-N-CA	6.18	130.64	120.94
1	kY	44	SER	CA-C-N	-6.18	112.67	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kY	44	SER	C-N-CA	-6.18	112.67	121.50
1	lM	25	LYS	N-CA-C	6.18	118.09	111.36
1	2o	191	VAL	N-CA-C	6.18	122.19	109.34
1	3j	113	GLU	CB-CG-CD	-6.18	102.10	112.60
1	3u	84	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	3D	229	ARG	O-C-N	-6.18	115.73	123.27
1	4c	56	LEU	N-CA-C	6.18	118.01	111.28
1	4g	134	ILE	CA-C-N	6.18	128.92	120.46
1	4g	134	ILE	C-N-CA	6.18	128.92	120.46
1	4k	139	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	55	229	ARG	N-CA-C	6.18	119.94	111.54
1	5r	23	TRP	N-CA-C	6.18	117.81	111.14
1	5D	111	LEU	O-C-N	-6.18	115.11	122.15
1	5F	162	ARG	CA-C-N	6.18	128.56	120.28
1	5F	162	ARG	C-N-CA	6.18	128.56	120.28
1	6m	141	ILE	CA-CB-CG1	6.18	120.90	110.40
1	6E	53	ASN	O-C-N	6.18	128.67	122.12
1	6L	208	ALA	CA-C-O	6.18	125.84	119.05
1	6V	42	ALA	O-C-N	-6.18	115.61	122.03
1	7k	25	LYS	N-CA-C	6.18	118.01	111.28
1	7K	57	ASN	O-C-N	-6.18	113.93	122.46
1	9m	143	ARG	N-CA-C	6.18	118.01	111.28
1	9N	74	ASN	N-CA-C	6.18	118.09	111.36
1	9R	80	TRP	CA-C-N	6.18	128.56	120.28
1	9R	80	TRP	C-N-CA	6.18	128.56	120.28
1	14	59	VAL	CA-C-O	6.18	128.50	120.78
1	bG	210	THR	N-CA-C	6.18	118.01	110.41
1	bN	54	THR	CA-C-N	6.18	128.56	120.28
1	bN	54	THR	C-N-CA	6.18	128.56	120.28
1	bX	62	HIS	ND1-CG-CD2	6.18	112.28	106.10
1	cy	217	ALA	N-CA-CB	-6.18	101.89	110.29
1	cB	21	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	cF	150	ILE	CA-C-N	6.18	128.56	120.28
1	cF	150	ILE	C-N-CA	6.18	128.56	120.28
1	cK	58	THR	CA-C-N	6.18	129.38	120.98
1	cK	58	THR	C-N-CA	6.18	129.38	120.98
1	cK	158	LYS	N-CA-C	-6.18	105.90	113.50
1	eb	12	HIS	CG-CD2-NE2	6.18	113.38	107.20
1	fN	59	VAL	N-CA-C	6.18	117.00	108.84
1	g1	38	PRO	N-CA-C	6.18	125.20	112.47
1	c	16	SER	N-CA-C	6.18	117.59	109.93
1	x	19	THR	CA-C-N	6.18	128.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	19	THR	C-N-CA	6.18	128.47	120.44
1	Q	78	ALA	CA-C-N	6.18	128.56	120.28
1	Q	78	ALA	C-N-CA	6.18	128.56	120.28
1	9	74	ASN	CA-CB-CG	-6.18	106.42	112.60
1	g9	47	ALA	N-CA-C	6.18	119.19	110.23
1	gk	211	LEU	N-CA-C	6.18	119.66	111.75
1	gx	84	HIS	CB-CG-CD2	-6.18	123.17	131.20
1	h2	59	VAL	N-CA-C	6.18	116.35	110.42
1	hk	124	ILE	N-CA-CB	-6.18	103.09	111.86
1	hz	175	GLU	CA-C-O	-6.18	114.01	121.05
1	1K	152	ASP	CA-CB-CG	-6.18	106.42	112.60
1	hE	186	THR	O-C-N	-6.18	115.11	122.15
1	hH	58	THR	N-CA-C	6.18	120.08	112.54
1	hP	52	LEU	CA-C-N	6.18	129.17	120.28
1	hP	52	LEU	C-N-CA	6.18	129.17	120.28
1	i5	226	HIS	CA-C-O	6.18	129.34	120.51
1	im	123	PRO	O-C-N	-6.18	115.69	123.10
1	iq	23	TRP	CB-CG-CD2	6.18	135.45	126.80
1	iy	193	ASN	O-C-N	-6.18	113.85	122.37
1	iD	134	ILE	O-C-N	-6.18	115.88	121.87
1	iG	11	VAL	CA-CB-CG2	6.18	120.90	110.40
1	1S	74	ASN	CA-CB-CG	-6.18	106.42	112.60
1	1S	172	LEU	CA-C-O	6.18	127.31	120.82
1	iW	23	TRP	CA-C-O	6.18	127.31	120.82
1	j0	142	VAL	N-CA-C	6.18	122.19	109.34
1	j0	215	MET	CA-C-O	6.18	127.08	120.10
1	jd	5	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	jp	167	ARG	O-C-N	-6.18	115.57	122.12
1	jB	12	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	jK	30	LYS	N-CA-C	6.18	120.44	112.41
1	jQ	65	ALA	O-C-N	-6.18	115.57	122.12
1	jR	206	GLY	N-CA-C	6.18	124.94	112.34
1	kD	203	LYS	N-CA-C	6.18	117.68	111.07
1	kH	81	ASP	CA-C-O	6.18	126.97	120.42
1	kM	143	ARG	CA-C-N	6.18	128.88	120.54
1	kM	143	ARG	C-N-CA	6.18	128.88	120.54
1	27	211	LEU	CA-C-N	6.18	128.56	120.28
1	27	211	LEU	C-N-CA	6.18	128.56	120.28
1	ll	42	ALA	CA-C-N	6.18	129.17	120.28
1	ll	42	ALA	C-N-CA	6.18	129.17	120.28
1	2a	96	MET	CA-C-O	6.18	128.08	121.16
1	lO	188	THR	CA-C-N	6.18	129.06	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lO	188	THR	C-N-CA	6.18	129.06	120.29
1	2p	75	GLU	CA-C-O	6.18	127.86	121.07
1	2y	213	GLU	N-CA-C	6.18	118.98	111.82
1	2z	74	ASN	CA-CB-CG	6.18	118.78	112.60
1	2W	195	ASN	CA-C-O	-6.18	112.38	121.46
1	2X	51	ASP	CA-C-N	6.18	128.56	120.28
1	2X	51	ASP	C-N-CA	6.18	128.56	120.28
1	3o	12	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	45	53	ASN	CA-C-N	6.18	128.56	120.28
1	45	53	ASN	C-N-CA	6.18	128.56	120.28
1	4N	79	GLU	CA-C-N	6.18	128.88	120.54
1	4N	79	GLU	C-N-CA	6.18	128.88	120.54
1	4S	132	ARG	CA-C-N	6.18	128.56	120.28
1	4S	132	ARG	C-N-CA	6.18	128.56	120.28
1	4V	95	GLN	CA-C-O	-6.18	113.56	120.54
1	5b	185	MET	N-CA-C	6.18	117.68	111.07
1	5g	12	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	5B	114	GLN	CB-CG-CD	-6.18	102.10	112.60
1	5H	48	THR	CA-C-N	6.18	126.36	119.32
1	5H	48	THR	C-N-CA	6.18	126.36	119.32
1	5X	226	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	63	18	ARG	CA-C-O	-6.18	114.54	120.90
1	63	176	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	65	95	GLN	CG-CD-OE1	6.18	133.15	120.80
1	66	130	TYR	CB-CG-CD2	-6.18	111.54	120.80
1	67	226	HIS	CE1-NE2-CD2	-6.18	102.82	109.00
1	6b	229	ARG	CA-C-N	6.18	133.09	121.97
1	6b	229	ARG	C-N-CA	6.18	133.09	121.97
1	6d	110	THR	CA-CB-OG1	6.18	118.86	109.60
1	6l	69	LEU	CA-C-N	6.18	131.01	121.19
1	6l	69	LEU	C-N-CA	6.18	131.01	121.19
1	6t	159	GLU	CA-C-N	6.18	126.20	119.90
1	6t	159	GLU	C-N-CA	6.18	126.20	119.90
1	6z	178	SER	N-CA-C	-6.18	100.50	110.32
1	6M	105	ALA	CA-C-O	6.18	126.75	119.28
1	6R	74	ASN	N-CA-C	6.18	118.01	111.28
1	71	108	THR	CA-CB-OG1	6.18	118.86	109.60
1	76	35	GLU	CA-C-O	6.18	126.96	119.49
1	7l	181	VAL	N-CA-C	6.18	116.92	110.62
1	7m	160	PRO	N-CA-CB	6.18	109.73	103.25
1	7n	75	GLU	O-C-N	-6.18	115.61	122.03
1	7n	178	SER	O-C-N	-6.18	115.57	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	56	LEU	N-CA-CB	-6.18	101.02	110.16
1	7J	51	ASP	CB-CA-C	-6.18	100.35	110.85
1	8p	68	MET	CA-C-N	6.18	128.84	120.44
1	8p	68	MET	C-N-CA	6.18	128.84	120.44
1	8t	10	MET	CA-C-N	6.18	131.36	122.77
1	8t	10	MET	C-N-CA	6.18	131.36	122.77
1	8N	2	ILE	CA-C-N	6.18	131.58	123.06
1	8N	2	ILE	C-N-CA	6.18	131.58	123.06
1	8Z	146	SER	N-CA-C	6.18	117.48	109.64
1	9b	189	LEU	N-CA-C	6.18	118.52	111.11
1	9l	138	LEU	O-C-N	6.18	128.43	122.07
1	9m	107	THR	CA-C-N	-6.18	112.92	122.49
1	9m	107	THR	C-N-CA	-6.18	112.92	122.49
1	9u	104	ILE	N-CA-CB	6.18	118.94	110.54
1	9w	175	GLU	O-C-N	-6.18	115.72	123.01
1	9D	76	GLU	O-C-N	-6.18	115.71	122.07
1	Z	151	LEU	CA-C-O	6.18	126.98	119.38
1	a3	115	ILE	N-CA-C	6.18	117.66	110.62
1	an	153	ILE	N-CA-C	-6.18	107.11	113.10
1	ao	194	ALA	O-C-N	-6.18	115.57	122.86
1	aU	159	GLU	CA-C-N	6.18	126.19	119.89
1	aU	159	GLU	C-N-CA	6.18	126.19	119.89
1	16	15	ILE	N-CA-C	6.18	118.52	109.63
1	16	67	GLN	CA-C-O	6.18	126.97	120.42
1	bc	195	ASN	CA-C-O	-6.18	113.75	120.17
1	bn	21	ASN	N-CA-C	-6.18	104.63	111.36
1	bt	20	LEU	N-CA-CB	6.18	119.30	110.16
1	bR	6	LEU	N-CA-C	6.18	118.09	111.36
1	1c	171	THR	N-CA-CB	6.18	119.14	109.94
1	cn	103	ASP	CA-C-N	6.18	129.24	120.53
1	cn	103	ASP	C-N-CA	6.18	129.24	120.53
1	cx	199	LYS	N-CA-C	6.18	118.01	111.28
1	cC	83	LEU	CB-CA-C	6.18	120.58	110.88
1	d1	100	ARG	N-CA-CB	6.18	119.94	110.49
1	dH	213	GLU	CA-C-N	6.18	128.47	120.44
1	dH	213	GLU	C-N-CA	6.18	128.47	120.44
1	dJ	109	SER	N-CA-CB	6.18	120.70	110.63
1	dK	119	THR	O-C-N	-6.18	114.62	122.34
1	dS	84	HIS	CA-C-N	6.18	126.50	119.83
1	dS	84	HIS	C-N-CA	6.18	126.50	119.83
1	dW	74	ASN	CA-CB-CG	-6.18	106.42	112.60
1	e1	31	ALA	CA-C-O	-6.18	113.71	120.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	33	SER	O-C-N	-6.18	117.14	121.65
1	e6	111	LEU	CA-C-N	6.18	128.56	120.28
1	e6	111	LEU	C-N-CA	6.18	128.56	120.28
1	ey	226	HIS	ND1-CE1-NE2	6.18	114.58	108.40
1	eB	226	HIS	N-CA-CB	6.18	119.30	110.16
1	eE	121	ASN	OD1-CG-ND2	-6.18	116.42	122.60
1	eM	66	MET	O-C-N	-6.18	115.11	122.15
1	fp	149	SER	CA-C-N	6.18	131.28	121.09
1	fp	149	SER	C-N-CA	6.18	131.28	121.09
1	fq	202	LEU	N-CA-CB	-6.18	100.33	110.40
1	fu	92	GLU	O-C-N	-6.18	114.51	121.43
1	fE	117	TRP	CA-C-O	6.18	126.97	120.42
1	fL	226	HIS	CA-C-N	6.18	129.48	120.71
1	fL	226	HIS	C-N-CA	6.18	129.48	120.71
1	g0	20	LEU	CA-C-N	6.18	128.47	120.44
1	g0	20	LEU	C-N-CA	6.18	128.47	120.44
1	f	162	ARG	CA-C-O	6.18	127.10	120.55
1	k	114	GLN	OE1-CD-NE2	-6.18	116.42	122.60
1	4	162	ARG	CA-C-N	6.18	128.47	120.44
1	4	162	ARG	C-N-CA	6.18	128.47	120.44
1	gj	143	ARG	CA-C-O	6.17	127.30	120.82
1	gt	87	HIS	CA-CB-CG	6.17	119.97	113.80
1	gA	124	ILE	CA-C-O	-6.17	115.18	119.19
1	gH	85	PRO	CA-C-O	-6.17	113.99	121.03
1	1G	221	VAL	O-C-N	-6.17	116.21	123.00
1	gW	141	ILE	N-CA-C	6.17	116.92	110.62
1	1H	40	PHE	CB-CG-CD1	-6.17	110.20	120.70
1	hb	75	GLU	N-CA-C	6.17	117.68	111.07
1	hz	127	GLY	CA-C-N	6.17	128.56	120.28
1	hz	127	GLY	C-N-CA	6.17	128.56	120.28
1	iW	91	ILE	CA-C-N	6.17	129.26	120.49
1	iW	91	ILE	C-N-CA	6.17	129.26	120.49
1	iX	187	GLU	N-CA-C	6.17	117.68	111.07
1	iZ	103	ASP	CA-C-N	6.17	128.92	120.46
1	iZ	103	ASP	C-N-CA	6.17	128.92	120.46
1	j7	87	HIS	N-CA-CB	6.17	120.93	110.49
1	jh	179	GLN	N-CA-C	6.17	118.80	111.33
1	jn	199	LYS	O-C-N	-6.17	115.58	122.12
1	kf	36	VAL	O-C-N	-6.17	115.86	121.91
1	kk	144	MET	CA-C-O	6.17	127.30	120.63
1	kW	24	VAL	N-CA-CB	6.17	118.94	110.54
1	kW	74	ASN	CA-CB-CG	-6.17	106.43	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25	140	LYS	CA-C-O	-6.17	114.00	120.55
1	l3	208	ALA	CA-C-N	6.17	130.07	120.75
1	l3	208	ALA	C-N-CA	6.17	130.07	120.75
1	ll	209	ALA	N-CA-C	6.17	118.27	110.24
1	lr	144	MET	N-CA-C	6.17	118.09	111.36
1	28	37	ILE	CA-C-O	6.17	122.83	118.69
1	lz	88	ALA	CA-C-O	6.17	126.96	120.42
1	2d	104	ILE	CB-CA-C	6.17	120.48	112.14
1	2e	16	SER	CA-C-N	6.17	125.58	118.85
1	2e	16	SER	C-N-CA	6.17	125.58	118.85
1	2g	161	PHE	CA-C-N	6.17	128.88	120.54
1	2g	161	PHE	C-N-CA	6.17	128.88	120.54
1	2j	226	HIS	CG-CD2-NE2	6.17	113.38	107.20
1	2o	195	ASN	CA-CB-CG	6.17	118.77	112.60
1	2q	223	GLY	CA-C-N	6.17	127.56	119.84
1	2q	223	GLY	C-N-CA	6.17	127.56	119.84
1	2r	120	HIS	CG-CD2-NE2	6.17	113.37	107.20
1	2t	11	VAL	N-CA-C	6.17	117.37	108.48
1	2H	208	ALA	CA-C-N	6.17	129.48	120.71
1	2H	208	ALA	C-N-CA	6.17	129.48	120.71
1	3h	143	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	3r	68	MET	O-C-N	-6.17	115.71	122.07
1	3s	192	GLN	CA-C-O	6.17	126.39	119.41
1	3u	204	ALA	N-CA-C	6.17	118.09	111.36
1	3x	177	ALA	N-CA-C	6.17	118.95	110.24
1	3C	132	ARG	CA-C-O	-6.17	114.34	120.82
1	4Q	35	GLU	CA-C-N	6.17	130.91	120.29
1	4Q	35	GLU	C-N-CA	6.17	130.91	120.29
1	4U	171	THR	N-CA-C	6.17	118.09	111.36
1	4Z	172	LEU	N-CA-C	6.17	118.81	111.71
1	5a	226	HIS	N-CA-C	6.17	119.18	110.23
1	5p	164	TYR	CA-C-N	6.17	128.34	120.56
1	5p	164	TYR	C-N-CA	6.17	128.34	120.56
1	5t	212	GLU	CA-C-O	-6.17	114.00	120.55
1	5v	62	HIS	CB-CG-CD2	-6.17	123.17	131.20
1	5v	120	HIS	CG-CD2-NE2	6.17	113.37	107.20
1	5W	226	HIS	CB-CG-ND1	6.17	131.96	122.70
1	62	8	GLY	CA-C-N	6.17	131.36	122.35
1	62	8	GLY	C-N-CA	6.17	131.36	122.35
1	6N	149	SER	O-C-N	-6.17	116.21	123.25
1	6Y	214	MET	CA-C-N	6.17	129.69	120.31
1	6Y	214	MET	C-N-CA	6.17	129.69	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7H	1	PRO	CA-C-N	6.17	128.77	120.50
1	7H	1	PRO	C-N-CA	6.17	128.77	120.50
1	7I	82	ARG	CA-C-N	6.17	128.55	120.28
1	7I	82	ARG	C-N-CA	6.17	128.55	120.28
1	7L	5	ASN	CA-CB-CG	-6.17	106.43	112.60
1	7X	36	VAL	N-CA-C	6.17	118.81	111.09
1	7Y	227	LYS	CA-C-N	6.17	132.25	122.74
1	7Y	227	LYS	C-N-CA	6.17	132.25	122.74
1	8d	162	ARG	CA-C-N	6.17	129.06	120.29
1	8d	162	ARG	C-N-CA	6.17	129.06	120.29
1	8h	182	LYS	CA-C-N	6.17	128.56	120.28
1	8h	182	LYS	C-N-CA	6.17	128.56	120.28
1	8r	25	LYS	CA-C-N	6.17	129.19	120.42
1	8r	25	LYS	C-N-CA	6.17	129.19	120.42
1	8O	39	MET	N-CA-C	6.17	118.01	111.28
1	9G	23	TRP	CB-CA-C	6.17	120.58	110.88
1	aa	94	GLY	CA-C-O	6.17	125.58	119.04
1	ac	226	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	ao	148	THR	N-CA-C	6.17	118.27	110.24
1	aq	142	VAL	N-CA-CB	6.17	117.36	110.51
1	aM	23	TRP	CD2-CE3-CZ3	-6.17	110.57	118.60
1	aV	198	CYS	N-CA-C	6.17	118.09	111.36
1	aZ	154	ARG	NE-CZ-NH2	-6.17	113.64	119.20
1	b4	58	THR	N-CA-CB	6.17	119.19	110.12
1	bi	32	PHE	N-CA-CB	6.17	119.63	110.49
1	br	190	LEU	N-CA-C	6.17	117.68	111.07
1	bx	87	HIS	CA-CB-CG	-6.17	107.63	113.80
1	bE	112	GLN	N-CA-C	6.17	117.68	111.07
1	bI	180	GLU	N-CA-CB	6.17	119.30	110.16
1	bL	143	ARG	NE-CZ-NH2	-6.17	113.64	119.20
1	bM	56	LEU	N-CA-C	6.17	118.01	111.28
1	cq	29	GLU	N-CA-C	6.17	119.29	111.69
1	cO	176	GLN	CG-CD-OE1	-6.17	108.45	120.80
1	d1	114	GLN	CA-C-N	6.17	128.46	120.56
1	d1	114	GLN	C-N-CA	6.17	128.46	120.56
1	d2	28	GLU	CA-C-O	-6.17	114.34	120.70
1	d7	150	ILE	N-CA-C	6.17	119.69	111.17
1	1k	131	LYS	CA-C-N	6.17	128.84	120.38
1	1k	131	LYS	C-N-CA	6.17	128.84	120.38
1	ds	84	HIS	CA-C-N	6.17	126.19	119.89
1	ds	84	HIS	C-N-CA	6.17	126.19	119.89
1	dw	150	ILE	CB-CA-C	-6.17	99.77	110.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dL	11	VAL	N-CA-C	6.17	118.26	108.87
1	eb	109	SER	CA-C-O	6.17	127.25	120.71
1	ee	210	THR	N-CA-CB	6.17	119.80	109.92
1	eg	183	ASN	N-CA-C	6.17	118.01	111.28
1	ek	42	ALA	N-CA-C	6.17	118.09	111.36
1	eI	154	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	fi	151	LEU	N-CA-C	6.17	118.01	111.28
1	fE	114	GLN	N-CA-CB	6.17	119.20	110.12
1	fE	162	ARG	N-CA-C	6.17	118.01	111.28
1	fQ	230	VAL	CA-CB-CG1	6.17	120.89	110.40
1	fW	136	LEU	N-CA-C	6.17	118.81	111.71
1	g6	227	LYS	N-CA-C	6.17	118.52	110.43
1	g	229	ARG	NE-CZ-NH2	-6.17	113.64	119.20
1	x	26	VAL	N-CA-CB	6.17	117.36	110.51
1	W	187	GLU	N-CA-C	6.17	117.68	111.07
1	gO	94	GLY	N-CA-C	-6.17	106.43	115.63
1	gY	14	ALA	N-CA-CB	-6.17	100.93	110.56
1	hu	84	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	hO	143	ARG	N-CA-C	6.17	117.67	111.07
1	hT	102	SER	N-CA-C	6.17	120.07	112.54
1	iO	113	GLU	CA-C-N	6.17	128.55	120.28
1	iO	113	GLU	C-N-CA	6.17	128.55	120.28
1	jK	94	GLY	O-C-N	-6.17	114.69	122.41
1	jO	177	ALA	CA-C-O	6.17	129.34	120.51
1	jU	5	ASN	CA-CB-CG	-6.17	106.43	112.60
1	k2	155	GLN	CA-C-O	6.17	127.52	120.54
1	k3	19	THR	O-C-N	-6.17	115.11	122.15
1	kd	53	ASN	CA-C-N	6.17	128.55	120.28
1	kd	53	ASN	C-N-CA	6.17	128.55	120.28
1	ky	48	THR	CA-C-O	-6.17	114.08	120.87
1	kF	162	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	kT	201	ILE	O-C-N	-6.17	115.47	121.83
1	lo	38	PRO	CA-C-N	6.17	128.84	120.44
1	lo	38	PRO	C-N-CA	6.17	128.84	120.44
1	2g	177	ALA	N-CA-CB	-6.17	100.06	110.49
1	2F	178	SER	CA-C-N	6.17	128.84	120.38
1	2F	178	SER	C-N-CA	6.17	128.84	120.38
1	36	133	TRP	N-CA-C	6.17	118.09	111.36
1	3w	183	ASN	CA-CB-CG	-6.17	106.43	112.60
1	3V	71	GLU	N-CA-C	6.17	118.52	111.11
1	5d	228	ALA	N-CA-C	6.17	119.42	110.28
1	5r	34	PRO	CA-C-N	6.17	129.69	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	34	PRO	C-N-CA	6.17	129.69	120.31
1	5J	18	ARG	NH1-CZ-NH2	-6.17	111.28	119.30
1	5J	72	THR	N-CA-CB	6.17	119.19	110.12
1	5Z	168	PHE	CA-CB-CG	-6.17	107.63	113.80
1	6A	100	ARG	O-C-N	-6.17	115.81	122.85
1	6Q	206	GLY	CA-C-N	6.17	127.56	119.84
1	6Q	206	GLY	C-N-CA	6.17	127.56	119.84
1	7r	137	GLY	CA-C-N	6.17	128.47	120.44
1	7r	137	GLY	C-N-CA	6.17	128.47	120.44
1	8e	192	GLN	N-CA-C	6.17	118.52	111.11
1	8m	162	ARG	N-CA-C	6.17	118.81	111.71
1	8B	133	TRP	CE2-CD2-CE3	-6.17	112.63	118.80
1	8W	142	VAL	O-C-N	-6.17	115.64	121.87
1	93	10	MET	CG-SD-CE	-6.17	87.32	100.90
1	9L	155	GLN	OE1-CD-NE2	6.17	128.77	122.60
1	aF	51	ASP	CA-C-N	6.17	128.47	120.44
1	aF	51	ASP	C-N-CA	6.17	128.47	120.44
1	aP	128	GLU	N-CA-CB	6.17	119.19	110.12
1	bg	99	PRO	N-CA-CB	-6.17	96.77	103.25
1	bL	39	MET	N-CA-C	-6.17	104.63	111.36
1	bO	2	ILE	N-CA-CB	6.17	120.00	112.10
1	ch	57	ASN	CA-C-N	6.17	128.55	120.28
1	ch	57	ASN	C-N-CA	6.17	128.55	120.28
1	cp	161	PHE	CA-C-N	6.17	128.87	120.54
1	cp	161	PHE	C-N-CA	6.17	128.87	120.54
1	cY	153	ILE	CA-CB-CG2	6.17	120.99	110.50
1	dK	26	VAL	N-CA-C	6.17	116.84	110.36
1	dT	202	LEU	N-CA-C	6.17	118.01	111.28
1	e4	92	GLU	CA-C-N	6.17	126.14	119.78
1	e4	92	GLU	C-N-CA	6.17	126.14	119.78
1	eK	80	TRP	CB-CG-CD2	-6.17	118.16	126.80
1	eS	229	ARG	NE-CZ-NH2	-6.17	113.64	119.20
1	1w	75	GLU	N-CA-C	6.17	117.67	111.07
1	fA	17	PRO	N-CA-C	-6.17	105.81	113.84
1	fF	213	GLU	O-C-N	-6.17	115.42	122.09
1	fO	13	GLN	CA-C-N	6.17	129.63	120.87
1	fO	13	GLN	C-N-CA	6.17	129.63	120.87
1	fO	96	MET	CG-SD-CE	-6.17	87.32	100.90
1	fW	210	THR	O-C-N	-6.17	115.75	122.79
1	g1	185	MET	CG-SD-CE	-6.17	87.32	100.90
1	t	52	LEU	CA-C-N	6.17	129.06	120.29
1	t	52	LEU	C-N-CA	6.17	129.06	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	92	GLU	CB-CA-C	6.17	119.58	109.46
1	gm	189	LEU	CA-C-N	6.17	128.46	120.44
1	gm	189	LEU	C-N-CA	6.17	128.46	120.44
1	gn	152	ASP	N-CA-C	6.17	118.01	111.28
1	gL	130	TYR	CA-C-O	6.17	126.96	120.42
1	gP	9	GLN	CG-CD-NE2	6.17	125.66	116.40
1	hl	109	SER	O-C-N	-6.17	115.21	123.23
1	hL	12	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	hO	113	GLU	CA-C-O	6.17	126.96	120.42
1	hX	86	VAL	CA-C-O	6.17	126.81	120.39
1	i8	110	THR	CA-CB-OG1	6.17	118.86	109.60
1	ii	63	GLN	N-CA-C	6.17	117.67	111.07
1	iy	173	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	iP	164	TYR	CB-CA-C	6.17	121.03	110.79
1	iU	81	ASP	CA-CB-CG	-6.17	106.43	112.60
1	iY	194	ALA	N-CA-C	6.17	119.61	110.48
1	jx	170	LYS	CA-C-N	6.17	128.83	120.44
1	jx	170	LYS	C-N-CA	6.17	128.83	120.44
1	jB	191	VAL	N-CA-C	6.17	116.95	110.72
1	jM	57	ASN	CA-C-O	-6.17	114.01	120.55
1	jQ	65	ALA	CA-C-N	6.17	128.87	120.54
1	jQ	65	ALA	C-N-CA	6.17	128.87	120.54
1	jW	7	GLN	N-CA-C	6.17	119.18	110.23
1	k1	171	THR	CA-CB-CG2	6.17	120.99	110.50
1	k9	200	THR	N-CA-CB	6.17	118.96	110.01
1	km	153	ILE	CA-CB-CG1	6.17	120.89	110.40
1	kV	97	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	27	124	ILE	N-CA-CB	6.17	119.61	111.40
1	li	185	MET	N-CA-C	6.17	118.01	111.28
1	lp	169	TYR	CB-CG-CD2	-6.17	111.54	120.80
1	lv	30	LYS	N-CA-C	-6.17	106.39	114.04
1	lH	19	THR	N-CA-C	-6.17	104.63	111.36
1	2o	75	GLU	CA-C-O	6.17	126.96	120.42
1	2t	198	CYS	N-CA-C	6.17	118.01	111.28
1	2w	43	LEU	O-C-N	-6.17	115.58	122.12
1	2U	7	GLN	CA-CB-CG	6.17	126.44	114.10
1	38	45	GLU	CA-C-O	6.17	127.80	120.70
1	3r	135	ILE	O-C-N	-6.17	115.88	121.87
1	3y	20	LEU	N-CA-C	6.17	118.01	111.28
1	3D	123	PRO	CA-C-O	-6.17	114.52	121.43
1	3I	226	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	3J	61	GLY	O-C-N	6.17	129.40	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3L	115	ILE	N-CA-C	6.17	118.76	111.05
1	42	72	THR	CA-C-N	6.17	128.34	120.56
1	42	72	THR	C-N-CA	6.17	128.34	120.56
1	45	213	GLU	N-CA-C	6.17	117.67	111.07
1	4K	115	ILE	CA-C-N	6.17	126.96	119.99
1	4K	115	ILE	C-N-CA	6.17	126.96	119.99
1	4P	37	ILE	CA-C-N	6.17	125.66	119.24
1	4P	37	ILE	C-N-CA	6.17	125.66	119.24
1	5j	132	ARG	NH1-CZ-NH2	-6.17	111.28	119.30
1	5B	120	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	5N	12	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	5X	79	GLU	CA-C-N	6.17	133.33	121.54
1	5X	79	GLU	C-N-CA	6.17	133.33	121.54
1	64	131	LYS	O-C-N	-6.17	115.11	122.15
1	6i	166	ASP	CA-C-N	6.17	129.05	120.29
1	6i	166	ASP	C-N-CA	6.17	129.05	120.29
1	6N	3	VAL	N-CA-C	6.17	117.37	108.48
1	6V	143	ARG	N-CA-C	6.17	118.01	111.28
1	7d	42	ALA	O-C-N	-6.17	115.58	122.12
1	7l	97	ARG	NH1-CZ-NH2	-6.17	111.28	119.30
1	7u	72	THR	N-CA-C	6.17	118.01	111.28
1	7z	86	VAL	N-CA-CB	6.17	120.50	110.13
1	7B	169	TYR	N-CA-C	6.17	118.98	111.82
1	7D	133	TRP	CB-CG-CD2	-6.17	118.16	126.80
1	7J	53	ASN	N-CA-C	6.17	118.09	111.36
1	7W	53	ASN	N-CA-C	6.17	118.01	111.28
1	8o	230	VAL	N-CA-C	6.17	117.39	109.30
1	8r	226	HIS	CB-CG-ND1	6.17	131.96	122.70
1	8L	150	ILE	CA-C-O	-6.17	113.91	120.64
1	8O	126	VAL	O-C-N	6.17	127.96	121.91
1	9i	143	ARG	N-CA-C	6.17	118.09	111.36
1	9l	199	LYS	N-CA-CB	6.17	119.19	110.12
1	9n	197	ASP	CA-CB-CG	-6.17	106.43	112.60
1	9M	219	GLN	N-CA-CB	6.17	119.25	110.67
1	9U	187	GLU	N-CA-C	6.17	120.98	112.90
1	9Z	193	ASN	CA-C-O	6.17	126.87	119.59
1	a7	106	GLY	O-C-N	-6.17	114.55	122.39
1	ak	87	HIS	CG-CD2-NE2	6.17	113.37	107.20
1	ax	2	ILE	N-CA-C	6.17	116.81	108.17
1	aN	76	GLU	N-CA-C	6.17	117.67	111.07
1	b1	87	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	bD	114	GLN	N-CA-CB	-6.17	101.06	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bF	202	LEU	CA-C-N	6.17	128.55	120.28
1	bF	202	LEU	C-N-CA	6.17	128.55	120.28
1	bI	32	PHE	CA-CB-CG	-6.17	107.63	113.80
1	bL	140	LYS	O-C-N	-6.17	115.71	122.07
1	bM	226	HIS	CA-C-O	6.17	126.57	119.35
1	bU	132	ARG	O-C-N	-6.17	115.71	122.07
1	c5	75	GLU	N-CA-C	6.17	118.52	111.11
1	ch	48	THR	CA-C-O	-6.17	113.97	120.88
1	cC	168	PHE	CA-C-N	6.17	128.84	120.38
1	cC	168	PHE	C-N-CA	6.17	128.84	120.38
1	cD	183	ASN	OD1-CG-ND2	6.17	128.77	122.60
1	cE	191	VAL	CB-CA-C	-6.17	104.16	111.94
1	cN	178	SER	CA-C-N	6.17	128.46	120.44
1	cN	178	SER	C-N-CA	6.17	128.46	120.44
1	d0	179	GLN	N-CA-C	6.17	118.52	111.11
1	dg	70	LYS	CA-C-N	6.17	128.55	120.28
1	dg	70	LYS	C-N-CA	6.17	128.55	120.28
1	dl	19	THR	O-C-N	-6.17	115.42	122.09
1	dp	227	LYS	N-CA-C	6.17	118.74	110.35
1	dw	120	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	ed	139	ASN	N-CA-CB	-6.17	101.05	110.12
1	ed	140	LYS	O-C-N	-6.17	115.11	122.15
1	ey	117	TRP	CE2-CD2-CE3	-6.17	112.63	118.80
1	eR	56	LEU	CA-C-N	6.17	129.17	120.28
1	eR	56	LEU	C-N-CA	6.17	129.17	120.28
1	eW	126	VAL	N-CA-C	6.17	116.34	110.42
1	1x	101	GLY	CA-C-O	6.17	127.06	120.40
1	s	10	MET	CA-C-N	6.17	131.50	123.11
1	s	10	MET	C-N-CA	6.17	131.50	123.11
1	w	37	ILE	N-CA-C	6.17	119.76	112.35
1	K	25	LYS	CA-C-N	6.17	128.34	120.56
1	K	25	LYS	C-N-CA	6.17	128.34	120.56
1	gN	80	TRP	CG-CD1-NE1	-6.17	102.18	110.20
1	hk	33	SER	CA-C-O	-6.17	114.03	120.02
1	hr	77	ALA	CB-CA-C	-6.17	101.19	110.88
1	hx	110	THR	CA-CB-OG1	6.17	118.86	109.60
1	i5	9	GLN	O-C-N	-6.17	115.82	122.85
1	i5	150	ILE	CA-C-O	6.17	127.13	120.47
1	ib	223	GLY	CA-C-N	6.17	127.55	119.84
1	ib	223	GLY	C-N-CA	6.17	127.55	119.84
1	iI	102	SER	N-CA-CB	6.17	119.84	110.28
1	1S	130	TYR	CA-C-N	6.17	128.55	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1S	130	TYR	C-N-CA	6.17	128.55	120.28
1	iS	82	ARG	CD-NE-CZ	6.17	133.04	124.40
1	jO	82	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	25	150	ILE	O-C-N	-6.17	115.47	121.83
1	li	142	VAL	O-C-N	6.17	127.86	121.87
1	2J	12	HIS	CA-C-N	6.17	131.47	122.77
1	2J	12	HIS	C-N-CA	6.17	131.47	122.77
1	3w	32	PHE	CA-C-O	-6.17	112.67	119.95
1	3M	37	ILE	N-CA-C	6.17	119.75	112.35
1	4j	14	ALA	N-CA-C	6.17	119.18	110.23
1	4t	84	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	5v	82	ARG	N-CA-C	6.17	118.08	111.36
1	5E	230	VAL	N-CA-C	-6.17	96.50	109.34
1	66	206	GLY	O-C-N	-6.17	115.60	121.77
1	6s	2	ILE	CA-C-O	6.17	125.74	119.20
1	74	62	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	8j	124	ILE	CA-C-O	-6.17	111.68	119.95
1	93	221	VAL	CA-C-O	-6.17	113.68	120.84
1	97	36	VAL	N-CA-C	6.17	117.65	110.62
1	9A	177	ALA	CA-C-N	6.17	129.60	120.90
1	9A	177	ALA	C-N-CA	6.17	129.60	120.90
1	9N	40	PHE	CA-C-N	6.17	128.55	120.28
1	9N	40	PHE	C-N-CA	6.17	128.55	120.28
1	a0	178	SER	O-C-N	-6.17	115.68	122.84
1	a8	39	MET	N-CA-C	6.17	118.00	111.28
1	ap	203	LYS	CA-C-N	6.17	128.55	120.28
1	ap	203	LYS	C-N-CA	6.17	128.55	120.28
1	aB	180	GLU	CA-C-O	6.17	127.09	120.55
1	aM	152	ASP	CA-CB-CG	-6.17	106.43	112.60
1	aV	183	ASN	N-CA-C	6.17	117.67	111.07
1	bz	174	ALA	CA-C-N	6.17	129.87	121.05
1	bz	174	ALA	C-N-CA	6.17	129.87	121.05
1	bG	134	ILE	N-CA-C	6.17	116.34	110.42
1	bM	163	ASP	CA-C-N	6.17	128.46	120.44
1	bM	163	ASP	C-N-CA	6.17	128.46	120.44
1	bN	123	PRO	CA-C-N	-6.17	117.36	123.04
1	bN	123	PRO	C-N-CA	-6.17	117.36	123.04
1	ca	217	ALA	O-C-N	-6.17	115.58	122.86
1	cs	68	MET	N-CA-CB	-6.17	101.06	110.01
1	cB	200	THR	CA-C-N	6.17	128.91	120.46
1	cB	200	THR	C-N-CA	6.17	128.91	120.46
1	cV	35	GLU	CA-C-O	6.17	127.07	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	128	GLU	N-CA-C	6.17	117.67	111.07
1	di	137	GLY	CA-C-N	6.17	128.46	120.44
1	di	137	GLY	C-N-CA	6.17	128.46	120.44
1	dA	207	PRO	N-CA-CB	-6.17	96.77	103.25
1	ey	133	TRP	CD2-CE2-CZ2	-6.17	116.23	122.40
1	fc	20	LEU	N-CA-C	6.17	118.00	111.28
1	fm	203	LYS	N-CA-C	6.17	118.98	111.82
1	fE	100	ARG	N-CA-C	6.17	118.00	110.41
1	fT	76	GLU	N-CA-C	6.17	118.98	111.82
1	fW	199	LYS	CA-C-N	6.17	128.83	120.38
1	fW	199	LYS	C-N-CA	6.17	128.83	120.38
1	M	57	ASN	OD1-CG-ND2	-6.17	116.43	122.60
1	g8	161	PHE	N-CA-C	6.17	118.81	111.71
1	g9	219	GLN	CA-C-O	6.17	128.08	121.05
1	gs	189	LEU	N-CA-C	6.17	120.83	113.12
1	1H	114	GLN	N-CA-C	6.17	118.00	111.28
1	1J	181	VAL	N-CA-C	6.17	116.91	110.62
1	hw	79	GLU	N-CA-C	6.17	118.00	111.28
1	hy	83	LEU	O-C-N	-6.17	115.72	122.07
1	hC	93	PRO	N-CA-CB	6.17	109.73	103.25
1	hG	50	GLN	OE1-CD-NE2	-6.17	116.43	122.60
1	hG	137	GLY	N-CA-C	6.17	120.10	112.64
1	hR	230	VAL	CA-CB-CG1	-6.17	99.91	110.40
1	i2	34	PRO	N-CA-C	6.17	121.62	114.03
1	ib	87	HIS	CA-CB-CG	-6.17	107.63	113.80
1	ij	153	ILE	CA-C-O	6.17	128.49	120.78
1	1P	176	GLN	OE1-CD-NE2	6.17	128.77	122.60
1	iy	161	PHE	N-CA-C	6.17	117.80	111.14
1	iC	214	MET	O-C-N	-6.17	115.12	122.15
1	iD	115	ILE	CA-C-N	6.17	126.96	119.99
1	iD	115	ILE	C-N-CA	6.17	126.96	119.99
1	je	42	ALA	N-CA-C	6.17	118.08	111.36
1	jl	194	ALA	O-C-N	-6.17	115.12	122.65
1	jG	132	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	jN	166	ASP	CA-C-N	6.17	128.46	120.44
1	jN	166	ASP	C-N-CA	6.17	128.46	120.44
1	jO	163	ASP	CA-C-O	6.17	127.09	120.55
1	k0	178	SER	CA-C-N	6.17	128.55	120.28
1	k0	178	SER	C-N-CA	6.17	128.55	120.28
1	kk	105	ALA	CA-C-O	6.17	127.07	119.05
1	kq	182	LYS	N-CA-C	6.17	118.00	111.28
1	ku	126	VAL	O-C-N	-6.17	115.86	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kB	144	MET	CG-SD-CE	-6.17	87.33	100.90
1	kE	45	GLU	N-CA-C	6.17	119.55	110.30
1	kJ	50	GLN	CB-CG-CD	6.17	123.09	112.60
1	kQ	67	GLN	N-CA-CB	6.17	119.19	110.12
1	l0	44	SER	N-CA-C	6.17	120.41	113.01
1	l2	163	ASP	CA-C-O	6.17	126.96	120.42
1	lC	119	THR	CA-C-O	6.17	126.74	119.28
1	lF	33	SER	O-C-N	-6.17	114.52	121.43
1	2a	154	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	2p	5	ASN	O-C-N	-6.17	114.01	122.46
1	2s	183	ASN	O-C-N	-6.17	115.58	122.12
1	2S	65	ALA	CA-C-O	6.17	127.30	120.82
1	2T	144	MET	N-CA-C	6.17	118.00	111.28
1	2W	176	GLN	N-CA-C	-6.17	104.39	112.41
1	2Y	13	GLN	OE1-CD-NE2	-6.17	116.43	122.60
1	2Z	120	HIS	CA-CB-CG	6.17	119.97	113.80
1	36	54	THR	CA-C-O	-6.17	114.01	120.55
1	3f	200	THR	CA-C-O	6.17	127.09	120.55
1	3k	131	LYS	CA-CB-CG	6.17	126.44	114.10
1	3x	92	GLU	O-C-N	-6.17	117.50	121.88
1	3G	217	ALA	N-CA-C	6.17	118.51	110.43
1	3O	167	ARG	CA-C-N	6.17	128.46	120.44
1	3O	167	ARG	C-N-CA	6.17	128.46	120.44
1	3P	25	LYS	O-C-N	-6.17	115.58	122.12
1	4p	41	SER	N-CA-CB	6.17	118.95	110.01
1	4H	149	SER	CA-C-N	6.17	130.76	120.64
1	4H	149	SER	C-N-CA	6.17	130.76	120.64
1	4K	226	HIS	CG-CD2-NE2	6.17	113.37	107.20
1	4L	24	VAL	CA-C-N	6.17	128.54	120.28
1	4L	24	VAL	C-N-CA	6.17	128.54	120.28
1	54	135	ILE	N-CA-C	6.17	117.65	110.62
1	5a	47	ALA	N-CA-C	6.17	118.66	109.59
1	5u	55	MET	N-CA-C	6.17	117.67	111.07
1	5w	120	HIS	CA-CB-CG	6.17	119.97	113.80
1	5J	82	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	5Z	178	SER	CA-C-N	6.17	128.46	120.44
1	5Z	178	SER	C-N-CA	6.17	128.46	120.44
1	60	87	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	6c	110	THR	O-C-N	6.17	130.00	122.84
1	6F	123	PRO	O-C-N	-6.17	116.19	123.10
1	71	126	VAL	N-CA-CB	6.17	118.18	110.47
1	78	164	TYR	O-C-N	-6.17	115.58	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	113	GLU	O-C-N	-6.17	115.58	122.12
1	85	25	LYS	CA-C-O	-6.17	113.88	120.42
1	8a	149	SER	CA-C-O	6.17	127.97	121.19
1	8d	173	ARG	CG-CD-NE	-6.17	98.43	112.00
1	8t	176	GLN	O-C-N	-6.17	114.76	122.35
1	8u	182	LYS	O-C-N	-6.17	115.58	122.12
1	8y	12	HIS	O-C-N	-6.17	115.73	123.01
1	9p	212	GLU	CA-C-N	6.17	129.05	120.29
1	9p	212	GLU	C-N-CA	6.17	129.05	120.29
1	9X	201	ILE	N-CA-CB	6.17	118.93	110.54
1	a5	134	ILE	O-C-N	-6.17	115.89	121.87
1	a9	85	PRO	N-CA-CB	6.17	109.73	103.25
1	ap	55	MET	N-CA-C	6.17	117.67	111.07
1	at	25	LYS	CA-C-O	-6.17	114.01	120.55
1	ax	190	LEU	N-CA-C	6.17	118.00	111.28
1	aM	29	GLU	N-CA-C	6.17	118.00	111.28
1	aO	215	MET	CA-C-O	6.17	127.20	119.12
1	aP	106	GLY	O-C-N	-6.17	114.54	122.25
1	aR	67	GLN	N-CA-C	6.17	117.67	111.07
1	aX	187	GLU	N-CA-C	6.17	118.00	111.28
1	bb	130	TYR	CA-C-N	6.17	129.05	120.29
1	bb	130	TYR	C-N-CA	6.17	129.05	120.29
1	bm	205	LEU	N-CA-C	6.17	118.08	111.36
1	bp	203	LYS	CA-C-N	6.17	128.55	120.28
1	bp	203	LYS	C-N-CA	6.17	128.55	120.28
1	bM	26	VAL	N-CA-C	6.17	117.65	110.62
1	bP	182	LYS	N-CA-C	6.17	118.97	111.82
1	c0	105	ALA	CA-C-O	6.17	127.00	119.11
1	ci	123	PRO	N-CA-C	6.17	120.90	111.15
1	cn	124	ILE	N-CA-CB	6.17	116.83	110.23
1	cq	197	ASP	N-CA-CB	6.17	119.29	110.16
1	1g	48	THR	CA-C-N	6.17	125.90	119.05
1	1g	48	THR	C-N-CA	6.17	125.90	119.05
1	1i	23	TRP	CA-C-N	6.17	133.07	121.97
1	1i	23	TRP	C-N-CA	6.17	133.07	121.97
1	d5	215	MET	CA-C-N	6.17	131.94	121.14
1	d5	215	MET	C-N-CA	6.17	131.94	121.14
1	dZ	62	HIS	CA-C-N	6.17	129.05	120.29
1	dZ	62	HIS	C-N-CA	6.17	129.05	120.29
1	e9	112	GLN	CA-C-O	-6.17	114.34	120.82
1	em	113	GLU	N-CA-C	6.17	118.00	111.28
1	eS	202	LEU	CA-C-O	6.17	126.96	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1u	35	GLU	CA-C-O	6.17	126.18	119.15
1	fT	43	LEU	CA-C-O	-6.17	112.88	119.97
1	b	71	GLU	CA-C-N	6.17	128.83	120.44
1	b	71	GLU	C-N-CA	6.17	128.83	120.44
1	f	62	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	u	227	LYS	CA-C-N	6.17	133.32	121.54
1	u	227	LYS	C-N-CA	6.17	133.32	121.54
1	K	139	ASN	CA-CB-CG	6.17	118.77	112.60
1	gi	156	GLY	O-C-N	-6.17	115.60	121.77
1	gl	55	MET	N-CA-CB	6.17	118.95	110.01
1	gl	192	GLN	N-CA-C	6.17	118.79	111.33
1	gm	106	GLY	CA-C-N	6.17	131.16	120.68
1	gm	106	GLY	C-N-CA	6.17	131.16	120.68
1	go	200	THR	CA-CB-OG1	6.17	118.85	109.60
1	gt	64	ALA	O-C-N	-6.17	115.12	122.15
1	gB	162	ARG	N-CA-C	6.17	118.79	111.33
1	gJ	158	LYS	O-C-N	-6.17	114.92	122.20
1	gM	67	GLN	N-CA-CB	6.17	119.84	110.28
1	gQ	118	MET	CA-C-O	6.17	126.96	119.38
1	gY	59	VAL	N-CA-C	6.17	117.29	107.98
1	gY	71	GLU	N-CA-C	6.17	118.00	111.28
1	h0	53	ASN	OD1-CG-ND2	-6.17	116.43	122.60
1	hR	198	CYS	CA-C-N	6.17	128.83	120.38
1	hR	198	CYS	C-N-CA	6.17	128.83	120.38
1	hU	58	THR	CA-C-N	6.17	128.91	120.46
1	hU	58	THR	C-N-CA	6.17	128.91	120.46
1	1P	147	PRO	N-CA-CB	-6.17	97.99	103.35
1	it	146	SER	N-CA-CB	-6.17	100.86	110.11
1	1R	58	THR	O-C-N	-6.17	114.63	122.34
1	iJ	67	GLN	CA-C-O	6.17	127.09	120.55
1	iN	143	ARG	NE-CZ-NH2	6.17	124.75	119.20
1	iW	73	ILE	N-CA-C	6.17	116.34	110.42
1	j1	66	MET	N-CA-CB	6.17	119.19	110.12
1	j7	168	PHE	CA-C-N	6.17	128.46	120.44
1	j7	168	PHE	C-N-CA	6.17	128.46	120.44
1	jL	12	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	jM	39	MET	CA-C-N	6.17	128.54	120.28
1	jM	39	MET	C-N-CA	6.17	128.54	120.28
1	jO	102	SER	N-CA-C	6.17	118.80	111.71
1	jP	16	SER	N-CA-CB	-6.17	101.45	110.14
1	kl	229	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	kn	149	SER	CA-C-N	6.17	128.91	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	149	SER	C-N-CA	6.17	128.91	120.46
1	22	140	LYS	CA-C-N	6.17	128.91	120.46
1	22	140	LYS	C-N-CA	6.17	128.91	120.46
1	kx	12	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	kW	215	MET	O-C-N	-6.17	115.72	122.07
1	kY	4	GLN	CB-CG-CD	6.17	123.08	112.60
1	l7	58	THR	N-CA-CB	6.17	119.80	110.30
1	lh	223	GLY	O-C-N	-6.17	115.60	121.77
1	li	167	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	lp	226	HIS	CA-CB-CG	6.17	119.97	113.80
1	ls	12	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	2d	62	HIS	CB-CG-CD2	-6.17	123.19	131.20
1	2e	124	ILE	CA-C-N	6.17	127.88	121.65
1	2e	124	ILE	C-N-CA	6.17	127.88	121.65
1	2f	40	PHE	CA-C-O	6.17	127.09	120.55
1	2h	173	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	2s	195	ASN	CA-CB-CG	6.17	118.77	112.60
1	2t	63	GLN	OE1-CD-NE2	-6.17	116.43	122.60
1	2G	86	VAL	N-CA-C	6.17	117.01	109.30
1	2I	117	TRP	CD2-CE2-CZ2	-6.17	116.23	122.40
1	2O	32	PHE	CA-CB-CG	-6.17	107.63	113.80
1	2U	105	ALA	N-CA-C	6.17	120.27	112.87
1	34	80	TRP	CA-C-N	6.17	128.46	120.44
1	34	80	TRP	C-N-CA	6.17	128.46	120.44
1	3D	104	ILE	O-C-N	-6.17	115.89	121.87
1	3M	34	PRO	N-CA-C	6.17	122.10	113.53
1	3Y	72	THR	OG1-CB-CG2	-6.17	96.97	109.30
1	4n	103	ASP	CA-C-N	6.17	128.45	120.56
1	4n	103	ASP	C-N-CA	6.17	128.45	120.56
1	4u	159	GLU	CA-C-O	-6.17	114.29	120.64
1	4w	77	ALA	CA-C-N	6.17	128.46	120.44
1	4w	77	ALA	C-N-CA	6.17	128.46	120.44
1	4y	223	GLY	CA-C-N	6.17	125.57	118.85
1	4y	223	GLY	C-N-CA	6.17	125.57	118.85
1	4R	189	LEU	N-CA-CB	6.17	120.91	110.49
1	4U	213	GLU	N-CA-C	6.17	118.97	111.82
1	57	18	ARG	CA-C-N	6.17	128.54	120.28
1	57	18	ARG	C-N-CA	6.17	128.54	120.28
1	5b	30	LYS	N-CA-CB	6.17	119.71	110.65
1	5d	116	GLY	O-C-N	-6.17	115.84	122.19
1	5i	63	GLN	N-CA-C	6.17	118.00	111.28
1	5L	120	HIS	CE1-NE2-CD2	-6.17	102.83	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5V	151	LEU	O-C-N	-6.17	113.86	122.37
1	64	84	HIS	CB-CG-CD2	-6.17	123.18	131.20
1	6a	52	LEU	CA-C-N	6.17	128.83	120.38
1	6a	52	LEU	C-N-CA	6.17	128.83	120.38
1	6a	102	SER	N-CA-C	6.17	118.79	111.33
1	6d	174	ALA	CB-CA-C	-6.17	100.30	110.72
1	6e	90	PRO	CA-C-N	6.17	130.17	121.66
1	6e	90	PRO	C-N-CA	6.17	130.17	121.66
1	6f	90	PRO	N-CA-C	6.17	120.92	111.11
1	6s	80	TRP	N-CA-C	6.17	118.00	111.28
1	6u	121	ASN	OD1-CG-ND2	-6.17	116.43	122.60
1	6F	132	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	6N	70	LYS	N-CA-C	6.17	118.97	111.82
1	6Q	163	ASP	CA-C-N	6.17	128.46	120.44
1	6Q	163	ASP	C-N-CA	6.17	128.46	120.44
1	6U	101	GLY	CA-C-N	6.17	129.16	120.28
1	6U	101	GLY	C-N-CA	6.17	129.16	120.28
1	6Z	230	VAL	CA-C-O	6.17	126.35	120.31
1	76	80	TRP	CA-C-O	-6.17	114.01	120.55
1	76	226	HIS	N-CA-C	-6.17	99.19	109.24
1	7e	218	CYS	CA-C-O	6.17	128.87	121.65
1	7l	22	ALA	CA-C-N	6.17	128.54	120.28
1	7l	22	ALA	C-N-CA	6.17	128.54	120.28
1	7m	158	LYS	O-C-N	-6.17	114.68	122.26
1	8q	200	THR	CA-C-N	6.17	128.45	120.56
1	8q	200	THR	C-N-CA	6.17	128.45	120.56
1	8t	31	ALA	N-CA-C	6.17	117.67	111.07
1	8t	164	TYR	CA-C-N	6.17	128.33	120.56
1	8t	164	TYR	C-N-CA	6.17	128.33	120.56
1	8E	194	ALA	N-CA-C	6.17	118.51	110.43
1	8N	95	GLN	CB-CG-CD	-6.17	102.12	112.60
1	8X	90	PRO	CB-CA-C	6.17	119.41	111.21
1	9d	184	TRP	N-CA-CB	-6.17	101.03	110.16
1	9j	223	GLY	CA-C-O	-6.17	116.03	122.38
1	9G	54	THR	CA-C-N	6.17	128.46	120.44
1	9G	54	THR	C-N-CA	6.17	128.46	120.44
1	9P	40	PHE	O-C-N	-6.17	115.72	122.07
1	Y	132	ARG	N-CA-C	6.17	118.79	111.33
1	9Q	15	ILE	N-CA-CB	-6.17	99.77	110.13
1	ab	53	ASN	CA-CB-CG	-6.17	106.43	112.60
1	aO	16	SER	CA-C-N	6.17	125.89	119.05
1	aO	16	SER	C-N-CA	6.17	125.89	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	75	GLU	CA-C-O	-6.17	113.88	120.42
1	aX	72	THR	CA-C-N	6.17	128.33	120.56
1	aX	72	THR	C-N-CA	6.17	128.33	120.56
1	17	212	GLU	N-CA-C	6.17	118.79	111.33
1	bj	92	GLU	CA-C-O	-6.17	113.59	120.25
1	bn	152	ASP	O-C-N	-6.17	114.94	122.34
1	by	86	VAL	N-CA-C	6.17	117.38	109.30
1	bP	33	SER	CA-C-O	-6.17	114.40	120.26
1	cc	185	MET	N-CA-C	6.17	118.00	111.28
1	ch	87	HIS	ND1-CE1-NE2	6.17	114.57	108.40
1	dg	72	THR	N-CA-C	6.17	117.67	111.07
1	dz	49	PRO	CA-C-N	6.17	128.54	120.28
1	dz	49	PRO	C-N-CA	6.17	128.54	120.28
1	dL	4	GLN	CA-C-O	6.17	129.33	120.51
1	em	12	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	eo	140	LYS	N-CA-C	6.17	118.79	111.33
1	ev	196	PRO	N-CA-C	6.17	121.97	113.65
1	1s	164	TYR	CA-C-N	6.17	128.91	120.46
1	1s	164	TYR	C-N-CA	6.17	128.91	120.46
1	eJ	130	TYR	CA-C-O	-6.17	113.88	120.42
1	eR	154	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	eR	170	LYS	CA-C-N	6.17	128.46	120.44
1	eR	170	LYS	C-N-CA	6.17	128.46	120.44
1	f7	83	LEU	N-CA-C	6.17	118.51	111.11
1	fg	35	GLU	CA-C-O	6.17	128.78	118.91
1	fG	24	VAL	CA-C-O	-6.17	114.63	121.17
1	fY	166	ASP	CA-C-N	6.17	128.54	120.28
1	fY	166	ASP	C-N-CA	6.17	128.54	120.28
1	k	132	ARG	NH1-CZ-NH2	-6.17	111.28	119.30
1	m	226	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	w	209	ALA	N-CA-C	6.17	119.77	110.64
1	N	63	GLN	N-CA-C	6.17	118.51	111.11
1	1C	169	TYR	N-CA-C	6.17	118.00	111.28
1	i4	18	ARG	CA-C-N	6.17	128.54	120.28
1	i4	18	ARG	C-N-CA	6.17	128.54	120.28
1	ia	76	GLU	CA-C-N	6.17	128.54	120.28
1	ia	76	GLU	C-N-CA	6.17	128.54	120.28
1	jF	62	HIS	ND1-CG-CD2	6.17	112.27	106.10
1	jG	10	MET	CB-CA-C	6.17	119.75	109.89
1	21	15	ILE	N-CA-CB	6.17	118.19	110.05
1	kw	199	LYS	N-CA-C	6.17	118.00	111.28
1	lM	161	PHE	CA-C-N	6.17	128.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lM	161	PHE	C-N-CA	6.17	128.54	120.28
1	2n	61	GLY	CA-C-N	6.17	131.11	122.36
1	2n	61	GLY	C-N-CA	6.17	131.11	122.36
1	2q	59	VAL	CA-C-O	6.17	127.70	121.17
1	3y	111	LEU	CA-C-O	6.17	127.29	120.63
1	3D	11	VAL	O-C-N	-6.17	115.94	123.09
1	4c	5	ASN	CA-CB-CG	6.17	118.77	112.60
1	4D	117	TRP	CA-C-N	6.17	131.01	120.72
1	4D	117	TRP	C-N-CA	6.17	131.01	120.72
1	5u	54	THR	CA-C-N	6.17	128.46	120.44
1	5u	54	THR	C-N-CA	6.17	128.46	120.44
1	5L	106	GLY	N-CA-C	-6.17	104.25	114.48
1	6m	169	TYR	N-CA-CB	6.17	119.18	110.12
1	6P	79	GLU	O-C-N	-6.17	115.58	122.12
1	6T	36	VAL	CA-CB-CG2	-6.17	99.92	110.40
1	8A	134	ILE	O-C-N	-6.17	115.89	121.87
1	8E	162	ARG	N-CA-C	6.17	117.67	111.07
1	8H	183	ASN	CA-C-N	6.17	128.82	120.44
1	8H	183	ASN	C-N-CA	6.17	128.82	120.44
1	8Q	82	ARG	N-CA-C	6.17	118.51	111.11
1	8W	219	GLN	OE1-CD-NE2	6.17	128.76	122.60
1	8W	226	HIS	CA-C-O	6.17	127.51	120.54
1	9i	54	THR	N-CA-C	6.17	118.08	111.36
1	9r	84	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
1	9r	124	ILE	CA-C-O	-6.17	114.56	119.25
1	au	53	ASN	CA-CB-CG	-6.17	106.44	112.60
1	aS	186	THR	CA-C-N	6.17	129.16	120.28
1	aS	186	THR	C-N-CA	6.17	129.16	120.28
1	bd	5	ASN	CA-C-O	6.17	125.83	119.05
1	bD	18	ARG	NE-CZ-NH2	-6.17	113.65	119.20
1	cn	146	SER	CA-C-N	6.17	125.87	119.64
1	cn	146	SER	C-N-CA	6.17	125.87	119.64
1	e0	97	ARG	NE-CZ-NH2	6.17	124.75	119.20
1	eN	32	PHE	CA-CB-CG	-6.17	107.64	113.80
1	eO	12	HIS	ND1-CE1-NE2	6.17	114.56	108.40
1	eW	40	PHE	CA-C-O	6.17	126.95	120.42
1	fi	144	MET	CA-C-O	-6.17	114.02	120.55
1	1E	164	TYR	CA-C-N	6.16	128.55	120.60
1	1E	164	TYR	C-N-CA	6.16	128.55	120.60
1	gL	101	GLY	O-C-N	-6.16	115.71	122.24
1	gL	210	THR	O-C-N	-6.16	115.54	122.75
1	h5	49	PRO	CA-C-N	6.16	128.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h5	49	PRO	C-N-CA	6.16	128.45	120.44
1	he	156	GLY	CA-C-N	6.16	125.57	118.85
1	he	156	GLY	C-N-CA	6.16	125.57	118.85
1	hj	172	LEU	CA-C-O	6.16	127.29	120.82
1	hm	148	THR	CA-CB-CG2	6.16	120.98	110.50
1	1J	122	PRO	CA-C-N	6.16	127.55	119.84
1	1J	122	PRO	C-N-CA	6.16	127.55	119.84
1	hv	162	ARG	O-C-N	-6.16	114.39	122.59
1	hN	129	ILE	CB-CA-C	6.16	119.86	111.97
1	hT	220	GLY	CA-C-N	6.16	130.87	120.64
1	hT	220	GLY	C-N-CA	6.16	130.87	120.64
1	1N	191	VAL	CA-C-N	6.16	128.82	120.38
1	1N	191	VAL	C-N-CA	6.16	128.82	120.38
1	i7	179	GLN	N-CA-C	6.16	118.80	111.71
1	ic	125	PRO	CA-C-N	6.16	128.55	120.60
1	ic	125	PRO	C-N-CA	6.16	128.55	120.60
1	1O	97	ARG	NE-CZ-NH2	-6.16	113.65	119.20
1	if	212	GLU	N-CA-C	6.16	118.00	111.28
1	iq	37	ILE	O-C-N	-6.16	114.07	121.10
1	iC	201	ILE	CA-C-N	6.16	128.54	120.28
1	iC	201	ILE	C-N-CA	6.16	128.54	120.28
1	iJ	200	THR	CA-C-N	6.16	128.33	120.56
1	iJ	200	THR	C-N-CA	6.16	128.33	120.56
1	iR	5	ASN	N-CA-C	-6.16	100.59	110.14
1	j0	171	THR	N-CA-C	6.16	118.00	111.28
1	jB	187	GLU	N-CA-C	6.16	118.08	111.36
1	1Y	85	PRO	CA-C-N	6.16	129.87	120.13
1	1Y	85	PRO	C-N-CA	6.16	129.87	120.13
1	kd	192	GLN	N-CA-C	6.16	118.80	111.71
1	ku	206	GLY	CA-C-N	6.16	127.54	119.84
1	ku	206	GLY	C-N-CA	6.16	127.54	119.84
1	kI	120	HIS	O-C-N	-6.16	114.39	122.59
1	kK	84	HIS	CB-CA-C	-6.16	104.24	110.65
1	l6	226	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	lo	118	MET	CA-C-O	6.16	126.95	120.42
1	lN	64	ALA	CA-C-O	6.16	127.08	120.55
1	2i	104	ILE	N-CA-C	6.16	116.91	110.62
1	2k	161	PHE	CA-C-N	6.16	128.54	120.28
1	2k	161	PHE	C-N-CA	6.16	128.54	120.28
1	2s	133	TRP	CB-CG-CD2	-6.16	118.17	126.80
1	2s	189	LEU	O-C-N	-6.16	115.12	122.15
1	2G	57	ASN	CA-CB-CG	-6.16	106.44	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	6	LEU	CA-C-N	6.16	129.46	120.71
1	2S	6	LEU	C-N-CA	6.16	129.46	120.71
1	37	179	GLN	CA-C-N	6.16	128.45	120.44
1	37	179	GLN	C-N-CA	6.16	128.45	120.44
1	3n	116	GLY	O-C-N	-6.16	116.27	122.19
1	3q	101	GLY	O-C-N	6.16	128.11	122.19
1	3A	19	THR	O-C-N	-6.16	115.72	122.07
1	3J	168	PHE	CA-C-O	-6.16	114.35	120.82
1	3L	9	GLN	O-C-N	-6.16	115.23	122.81
1	45	79	GLU	N-CA-C	6.16	118.08	111.36
1	4h	88	ALA	N-CA-C	6.16	119.30	110.24
1	4k	102	SER	CA-C-N	6.16	128.82	120.44
1	4k	102	SER	C-N-CA	6.16	128.82	120.44
1	4o	181	VAL	N-CA-CB	6.16	117.76	110.55
1	4S	167	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	54	226	HIS	CG-CD2-NE2	6.16	113.36	107.20
1	5c	144	MET	N-CA-C	6.16	118.97	111.82
1	5c	226	HIS	CA-CB-CG	6.16	119.96	113.80
1	5h	71	GLU	N-CA-C	6.16	118.97	111.82
1	61	40	PHE	CA-CB-CG	-6.16	107.64	113.80
1	62	147	PRO	CB-CA-C	6.16	120.75	111.44
1	68	96	MET	CA-C-N	6.16	130.06	120.75
1	68	96	MET	C-N-CA	6.16	130.06	120.75
1	6c	185	MET	CA-C-N	6.16	133.31	121.54
1	6c	185	MET	C-N-CA	6.16	133.31	121.54
1	6j	87	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	6r	159	GLU	CA-C-N	6.16	126.19	119.90
1	6r	159	GLU	C-N-CA	6.16	126.19	119.90
1	6x	143	ARG	NH1-CZ-NH2	-6.16	111.29	119.30
1	6Q	169	TYR	CA-C-N	6.16	128.45	120.44
1	6Q	169	TYR	C-N-CA	6.16	128.45	120.44
1	6Y	100	ARG	NE-CZ-NH2	-6.16	113.65	119.20
1	7o	194	ALA	CB-CA-C	-6.16	99.79	109.84
1	7B	47	ALA	N-CA-C	6.16	118.93	110.24
1	7F	80	TRP	CA-C-O	6.16	127.08	120.55
1	7Q	173	ARG	N-CA-C	6.16	118.00	111.28
1	7Z	172	LEU	CA-C-N	6.16	129.16	120.28
1	7Z	172	LEU	C-N-CA	6.16	129.16	120.28
1	81	107	THR	N-CA-C	6.16	118.00	111.28
1	89	72	THR	CA-C-N	6.16	128.45	120.56
1	89	72	THR	C-N-CA	6.16	128.45	120.56
1	8j	138	LEU	CA-C-N	6.16	128.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	138	LEU	C-N-CA	6.16	128.54	120.28
1	8C	163	ASP	N-CA-CB	6.16	118.95	110.01
1	8W	143	ARG	NE-CZ-NH2	-6.16	113.65	119.20
1	9h	111	LEU	N-CA-CB	-6.16	101.06	110.12
1	9o	209	ALA	N-CA-C	6.16	119.19	110.50
1	9C	84	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	9O	203	LYS	O-C-N	-6.16	113.43	122.43
1	9Y	16	SER	N-CA-C	6.16	118.41	109.84
1	aa	144	MET	CA-C-O	6.16	127.05	120.70
1	ag	161	PHE	CA-CB-CG	-6.16	107.64	113.80
1	ao	216	THR	CA-C-N	6.16	129.88	120.82
1	ao	216	THR	C-N-CA	6.16	129.88	120.82
1	as	134	ILE	N-CA-CB	6.16	118.92	110.54
1	aE	101	GLY	CA-C-O	6.16	127.08	120.30
1	aL	120	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	aU	153	ILE	N-CA-CB	6.16	118.39	110.13
1	aW	114	GLN	CA-C-O	6.16	127.29	120.82
1	b0	52	LEU	N-CA-C	6.16	117.67	111.07
1	18	208	ALA	CA-C-O	6.16	126.48	119.27
1	bC	10	MET	CG-SD-CE	-6.16	87.34	100.90
1	bH	155	GLN	CA-C-N	6.16	129.25	121.36
1	bH	155	GLN	C-N-CA	6.16	129.25	121.36
1	bR	62	HIS	CA-C-N	6.16	128.82	120.44
1	bR	62	HIS	C-N-CA	6.16	128.82	120.44
1	c1	55	MET	N-CA-C	6.16	118.08	111.36
1	c8	216	THR	N-CA-C	6.16	118.00	111.28
1	cd	13	GLN	CB-CG-CD	6.16	123.08	112.60
1	ce	160	PRO	CA-C-N	6.16	133.31	121.54
1	ce	160	PRO	C-N-CA	6.16	133.31	121.54
1	cf	202	LEU	N-CA-C	6.16	118.00	111.28
1	cI	153	ILE	N-CA-C	6.16	118.00	109.80
1	cJ	16	SER	CA-C-N	6.16	125.72	119.19
1	cJ	16	SER	C-N-CA	6.16	125.72	119.19
1	cL	114	GLN	CA-C-N	6.16	128.91	120.46
1	cL	114	GLN	C-N-CA	6.16	128.91	120.46
1	d3	130	TYR	CA-C-N	6.16	128.86	120.54
1	d3	130	TYR	C-N-CA	6.16	128.86	120.54
1	dc	140	LYS	O-C-N	-6.16	115.72	122.07
1	dk	210	THR	CA-C-O	6.16	129.18	121.66
1	dr	175	GLU	CA-C-N	6.16	131.01	120.72
1	dr	175	GLU	C-N-CA	6.16	131.01	120.72
1	dx	96	MET	N-CA-C	6.16	119.28	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dA	36	VAL	CA-C-N	6.16	125.26	120.33
1	dA	36	VAL	C-N-CA	6.16	125.26	120.33
1	dV	14	ALA	N-CA-C	6.16	119.17	110.23
1	ed	81	ASP	CA-CB-CG	6.16	118.76	112.60
1	et	64	ALA	N-CA-CB	-6.16	101.04	110.16
1	ez	143	ARG	NE-CZ-NH2	6.16	124.75	119.20
1	eA	205	LEU	N-CA-C	6.16	118.00	111.28
1	eB	62	HIS	N-CA-C	6.16	119.86	111.17
1	1t	132	ARG	CA-C-N	6.16	128.54	120.28
1	1t	132	ARG	C-N-CA	6.16	128.54	120.28
1	eW	147	PRO	CA-C-N	6.16	129.51	120.82
1	eW	147	PRO	C-N-CA	6.16	129.51	120.82
1	f9	35	GLU	CA-C-N	6.16	128.55	120.60
1	f9	35	GLU	C-N-CA	6.16	128.55	120.60
1	fk	213	GLU	N-CA-C	6.16	117.67	111.07
1	fs	138	LEU	N-CA-C	6.16	118.08	111.36
1	fu	81	ASP	O-C-N	-6.16	115.01	122.22
1	fB	71	GLU	N-CA-C	6.16	118.00	111.28
1	fK	23	TRP	CB-CG-CD2	6.16	135.43	126.80
1	fK	120	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	fL	132	ARG	CG-CD-NE	-6.16	98.44	112.00
1	fM	79	GLU	CA-C-N	6.16	128.54	120.28
1	fM	79	GLU	C-N-CA	6.16	128.54	120.28
1	g6	48	THR	N-CA-C	-6.16	103.04	110.13
1	b	206	GLY	O-C-N	-6.16	115.61	121.77
1	A	29	GLU	O-C-N	-6.16	114.10	122.36
1	X	148	THR	CA-C-O	-6.16	113.91	121.06
1	gy	127	GLY	CA-C-N	6.16	128.54	120.28
1	gy	127	GLY	C-N-CA	6.16	128.54	120.28
1	gY	197	ASP	CA-CB-CG	-6.16	106.44	112.60
1	ha	104	ILE	N-CA-C	-6.16	104.74	110.53
1	ht	126	VAL	CA-C-O	6.16	127.36	120.95
1	i5	99	PRO	O-C-N	-6.16	115.48	123.06
1	iG	57	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	jt	53	ASN	O-C-N	-6.16	115.59	122.12
1	jt	89	GLY	O-C-N	-6.16	115.61	121.77
1	jF	229	ARG	NE-CZ-NH2	6.16	124.75	119.20
1	ku	34	PRO	N-CA-C	6.16	125.16	112.47
1	lf	195	ASN	CA-C-N	6.16	127.54	119.84
1	lf	195	ASN	C-N-CA	6.16	127.54	119.84
1	lr	138	LEU	O-C-N	-6.16	115.59	122.12
1	lu	193	ASN	CA-CB-CG	-6.16	106.44	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	36	84	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	3b	226	HIS	O-C-N	-6.16	115.23	122.81
1	3J	81	ASP	CA-CB-CG	-6.16	106.44	112.60
1	4Y	221	VAL	O-C-N	-6.16	114.97	122.12
1	5a	70	LYS	CA-C-N	6.16	128.54	120.28
1	5a	70	LYS	C-N-CA	6.16	128.54	120.28
1	5r	72	THR	CA-C-O	6.16	127.06	119.79
1	61	87	HIS	CA-C-O	6.16	127.67	120.89
1	66	91	ILE	N-CA-C	6.16	116.25	106.88
1	6i	52	LEU	CA-C-N	6.16	128.45	120.44
1	6i	52	LEU	C-N-CA	6.16	128.45	120.44
1	6y	194	ALA	CA-C-O	6.16	129.03	121.94
1	6E	26	VAL	CA-CB-CG1	6.16	120.88	110.40
1	6J	132	ARG	O-C-N	6.16	128.65	122.12
1	6V	194	ALA	O-C-N	-6.16	115.77	122.79
1	7O	209	ALA	N-CA-C	6.16	119.69	109.46
1	8B	69	LEU	N-CA-CB	-6.16	101.08	110.01
1	8D	187	GLU	CB-CG-CD	-6.16	102.12	112.60
1	8N	96	MET	CG-SD-CE	6.16	114.45	100.90
1	8O	17	PRO	CA-C-N	6.16	128.45	120.44
1	8O	17	PRO	C-N-CA	6.16	128.45	120.44
1	8T	22	ALA	CA-C-N	6.16	128.45	120.44
1	8T	22	ALA	C-N-CA	6.16	128.45	120.44
1	9Q	165	VAL	N-CA-C	6.16	116.91	110.62
1	14	141	ILE	N-CA-C	6.16	116.91	110.62
1	b2	155	GLN	CA-C-O	6.16	127.50	120.54
1	dQ	183	ASN	N-CA-C	6.16	117.66	111.07
1	e2	40	PHE	CA-CB-CG	-6.16	107.64	113.80
1	ec	25	LYS	CA-C-N	6.16	128.32	120.56
1	ec	25	LYS	C-N-CA	6.16	128.32	120.56
1	eT	189	LEU	CA-C-O	6.16	127.49	120.90
1	f3	63	GLN	OE1-CD-NE2	6.16	128.76	122.60
1	ft	230	VAL	O-C-N	-6.16	117.05	123.03
1	a	99	PRO	N-CA-CB	6.16	108.67	103.25
1	t	132	ARG	NE-CZ-NH2	6.16	124.75	119.20
1	A	103	ASP	CA-C-N	6.16	129.17	120.42
1	A	103	ASP	C-N-CA	6.16	129.17	120.42
1	L	11	VAL	CA-CB-CG1	6.16	120.88	110.40
1	Q	53	ASN	CA-CB-CG	-6.16	106.44	112.60
1	R	53	ASN	CA-C-N	6.16	128.45	120.44
1	R	53	ASN	C-N-CA	6.16	128.45	120.44
1	9	19	THR	CA-C-O	-6.16	113.89	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	165	VAL	CA-C-O	6.16	127.36	120.95
1	1G	203	LYS	CB-CG-CD	6.16	125.47	111.30
1	hv	156	GLY	CA-C-O	-6.16	112.71	121.52
1	hw	47	ALA	CA-C-O	6.16	128.06	121.16
1	hx	68	MET	O-C-N	-6.16	115.59	122.12
1	hB	137	GLY	CA-C-N	6.16	128.54	120.28
1	hB	137	GLY	C-N-CA	6.16	128.54	120.28
1	1L	116	GLY	CA-C-N	6.16	128.53	120.28
1	1L	116	GLY	C-N-CA	6.16	128.53	120.28
1	hM	128	GLU	CA-C-O	6.16	127.08	120.55
1	hU	149	SER	CA-CB-OG	6.16	123.42	111.10
1	i4	132	ARG	CB-CG-CD	6.16	125.47	111.30
1	1O	171	THR	CA-C-N	6.16	128.45	120.44
1	1O	171	THR	C-N-CA	6.16	128.45	120.44
1	ik	135	ILE	CA-CB-CG1	-6.16	99.93	110.40
1	iE	154	ARG	O-C-N	-6.16	116.46	123.48
1	iK	61	GLY	CA-C-N	6.16	131.11	122.36
1	iK	61	GLY	C-N-CA	6.16	131.11	122.36
1	iN	128	GLU	N-CA-C	6.16	118.00	111.28
1	iU	120	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	jb	225	GLY	N-CA-C	6.16	119.93	112.48
1	je	14	ALA	CA-C-N	6.16	128.75	120.50
1	je	14	ALA	C-N-CA	6.16	128.75	120.50
1	jv	149	SER	O-C-N	-6.16	115.86	123.44
1	jP	120	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	jR	72	THR	CA-C-N	6.16	129.17	120.42
1	jR	72	THR	C-N-CA	6.16	129.17	120.42
1	jT	92	GLU	N-CA-C	6.16	117.66	109.83
1	kx	181	VAL	CA-C-N	6.16	128.45	120.44
1	kx	181	VAL	C-N-CA	6.16	128.45	120.44
1	kD	172	LEU	O-C-N	-6.16	114.38	122.39
1	kE	144	MET	CA-C-O	-6.16	113.98	120.63
1	24	221	VAL	N-CA-C	6.16	117.66	108.23
1	kS	37	ILE	CA-C-N	6.16	125.72	119.19
1	kS	37	ILE	C-N-CA	6.16	125.72	119.19
1	lh	222	GLY	N-CA-C	6.16	127.78	113.18
1	ln	66	MET	N-CA-C	6.16	117.99	111.28
1	2r	167	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	2x	213	GLU	CA-C-N	6.16	128.82	120.38
1	2x	213	GLU	C-N-CA	6.16	128.82	120.38
1	31	58	THR	N-CA-C	-6.16	105.71	113.72
1	3a	173	ARG	N-CA-C	6.16	117.99	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	124	ILE	O-C-N	-6.16	117.49	121.37
1	3o	20	LEU	N-CA-C	6.16	118.00	111.28
1	4i	22	ALA	N-CA-CB	-6.16	100.73	110.28
1	4j	178	SER	CA-C-N	6.16	128.53	120.28
1	4j	178	SER	C-N-CA	6.16	128.53	120.28
1	4l	134	ILE	CA-C-N	6.16	128.90	120.46
1	4l	134	ILE	C-N-CA	6.16	128.90	120.46
1	4m	143	ARG	N-CA-CB	-6.16	101.14	110.07
1	4p	190	LEU	O-C-N	-6.16	115.68	122.09
1	4B	4	GLN	N-CA-CB	6.16	119.20	109.71
1	53	130	TYR	CB-CG-CD2	-6.16	111.56	120.80
1	54	11	VAL	CA-C-N	6.16	130.65	121.72
1	54	11	VAL	C-N-CA	6.16	130.65	121.72
1	54	62	HIS	ND1-CG-CD2	6.16	112.26	106.10
1	54	162	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	5f	160	PRO	N-CA-CB	6.16	108.71	103.35
1	5k	213	GLU	CA-C-N	6.16	128.45	120.44
1	5k	213	GLU	C-N-CA	6.16	128.45	120.44
1	5v	106	GLY	O-C-N	-6.16	115.05	122.38
1	6n	165	VAL	CA-C-N	6.16	128.45	120.44
1	6n	165	VAL	C-N-CA	6.16	128.45	120.44
1	6x	63	GLN	N-CA-C	6.16	118.80	111.71
1	71	50	GLN	CA-C-N	6.16	128.45	120.44
1	71	50	GLN	C-N-CA	6.16	128.45	120.44
1	7a	141	ILE	CA-C-N	6.16	128.55	120.60
1	7a	141	ILE	C-N-CA	6.16	128.55	120.60
1	7i	195	ASN	O-C-N	-6.16	115.07	121.60
1	7l	120	HIS	N-CA-C	6.16	119.16	110.23
1	7p	92	GLU	O-C-N	-6.16	117.15	121.65
1	7z	163	ASP	CA-CB-CG	-6.16	106.44	112.60
1	87	84	HIS	O-C-N	-6.16	116.07	121.31
1	8f	216	THR	N-CA-C	-6.16	105.92	113.50
1	8o	166	ASP	O-C-N	-6.16	115.44	122.09
1	8z	187	GLU	CB-CG-CD	6.16	123.07	112.60
1	92	127	GLY	CA-C-N	6.16	128.45	120.44
1	92	127	GLY	C-N-CA	6.16	128.45	120.44
1	9j	166	ASP	O-C-N	6.16	128.65	122.12
1	9q	62	HIS	N-CA-CB	-6.16	102.81	111.62
1	9N	84	HIS	O-C-N	-6.16	115.83	121.37
1	9P	92	GLU	CA-C-O	-6.16	113.98	120.70
1	a8	184	TRP	CD2-CE2-CZ2	-6.16	116.24	122.40
1	aq	138	LEU	O-C-N	-6.16	113.96	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	az	161	PHE	CA-C-N	6.16	133.31	121.54
1	az	161	PHE	C-N-CA	6.16	133.31	121.54
1	aH	84	HIS	CA-C-N	6.16	126.17	119.89
1	aH	84	HIS	C-N-CA	6.16	126.17	119.89
1	aZ	20	LEU	N-CA-C	6.16	118.50	111.11
1	b9	126	VAL	N-CA-C	6.16	117.64	110.62
1	ba	167	ARG	N-CA-C	-6.16	105.25	112.89
1	bh	68	MET	N-CA-C	6.16	118.08	111.36
1	bw	82	ARG	O-C-N	-6.16	115.59	122.12
1	19	47	ALA	N-CA-C	6.16	118.66	110.53
1	ci	154	ARG	CD-NE-CZ	-6.16	115.78	124.40
1	cj	119	THR	N-CA-CB	6.16	119.82	110.95
1	cm	43	LEU	N-CA-C	6.16	117.99	111.28
1	co	174	ALA	N-CA-CB	-6.16	100.17	110.39
1	1g	201	ILE	CA-CB-CG2	6.16	120.97	110.50
1	cL	94	GLY	CA-C-O	6.16	125.85	119.01
1	dW	201	ILE	O-C-N	-6.16	115.87	121.91
1	ee	210	THR	O-C-N	-6.16	114.94	122.82
1	ev	168	PHE	N-CA-C	6.16	117.66	111.07
1	eE	167	ARG	CA-C-N	6.16	128.45	120.44
1	eE	167	ARG	C-N-CA	6.16	128.45	120.44
1	1t	132	ARG	N-CA-C	6.16	118.00	111.28
1	eT	184	TRP	N-CA-C	6.16	117.66	111.07
1	eU	208	ALA	N-CA-C	6.16	119.74	111.24
1	eX	102	SER	N-CA-C	6.16	118.79	111.71
1	fU	200	THR	CA-C-N	6.16	128.32	120.56
1	fU	200	THR	C-N-CA	6.16	128.32	120.56
1	s	210	THR	CA-C-N	6.16	128.82	120.38
1	s	210	THR	C-N-CA	6.16	128.82	120.38
1	w	159	GLU	N-CA-C	6.16	118.56	109.50
1	C	226	HIS	CG-CD2-NE2	6.16	113.36	107.20
1	F	132	ARG	N-CA-C	6.16	117.99	111.28
1	gh	96	MET	CA-C-N	6.16	130.05	120.75
1	gh	96	MET	C-N-CA	6.16	130.05	120.75
1	gi	168	PHE	CB-CA-C	6.16	121.06	110.84
1	gp	19	THR	N-CA-C	6.16	117.99	111.28
1	gx	183	ASN	CA-C-N	6.16	129.04	120.29
1	gx	183	ASN	C-N-CA	6.16	129.04	120.29
1	gJ	83	LEU	CA-C-O	6.16	127.29	120.82
1	gO	146	SER	CA-C-N	6.16	126.17	119.89
1	gO	146	SER	C-N-CA	6.16	126.17	119.89
1	gR	12	HIS	CA-CB-CG	6.16	119.96	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	172	LEU	O-C-N	-6.16	115.73	122.07
1	hh	86	VAL	N-CA-C	6.16	117.02	108.89
1	hl	20	LEU	N-CA-C	6.16	117.66	111.07
1	hD	23	TRP	CB-CG-CD1	6.16	136.14	126.90
1	hD	179	GLN	N-CA-C	6.16	118.50	111.11
1	hL	52	LEU	CA-C-O	-6.16	114.02	120.55
1	i0	26	VAL	N-CA-C	6.16	116.90	110.62
1	id	138	LEU	CA-C-N	6.16	128.82	120.38
1	id	138	LEU	C-N-CA	6.16	128.82	120.38
1	il	23	TRP	N-CA-CB	-6.16	101.08	110.01
1	is	84	HIS	O-C-N	-6.16	114.30	120.83
1	j1	104	ILE	N-CA-C	6.16	116.32	110.53
1	j3	40	PHE	CA-C-O	-6.16	114.35	120.82
1	jc	199	LYS	CG-CD-CE	6.16	125.47	111.30
1	jr	113	GLU	CA-C-N	6.16	128.44	120.44
1	jr	113	GLU	C-N-CA	6.16	128.44	120.44
1	jB	198	CYS	O-C-N	-6.16	115.59	122.12
1	jL	37	ILE	CA-C-N	6.16	125.56	118.85
1	jL	37	ILE	C-N-CA	6.16	125.56	118.85
1	jY	191	VAL	CA-C-O	-6.16	114.51	120.30
1	kk	148	THR	CA-C-O	-6.16	113.96	120.80
1	kn	139	ASN	N-CA-CB	-6.16	100.36	110.40
1	kC	103	ASP	N-CA-C	6.16	119.27	111.69
1	kY	90	PRO	CA-C-N	-6.16	114.67	122.37
1	kY	90	PRO	C-N-CA	-6.16	114.67	122.37
1	l1	152	ASP	O-C-N	-6.16	114.45	122.39
1	l2	53	ASN	N-CA-C	6.16	117.66	111.07
1	l2	108	THR	N-CA-CB	6.16	119.61	110.49
1	la	151	LEU	N-CA-C	6.16	119.63	111.75
1	le	32	PHE	CA-CB-CG	-6.16	107.64	113.80
1	29	51	ASP	CA-CB-CG	-6.16	106.44	112.60
1	lD	104	ILE	CA-CB-CG1	6.16	120.87	110.40
1	lI	35	GLU	CA-C-O	6.16	127.05	119.97
1	lP	143	ARG	N-CA-C	6.16	117.79	111.14
1	2i	221	VAL	N-CA-C	6.16	117.52	109.58
1	2n	91	ILE	N-CA-CB	6.16	118.70	110.26
1	2G	68	MET	CG-SD-CE	-6.16	87.35	100.90
1	3r	169	TYR	O-C-N	-6.16	114.18	122.43
1	3M	171	THR	CA-C-O	6.16	126.95	120.42
1	3S	155	GLN	CB-CA-C	6.16	119.94	109.72
1	3U	78	ALA	CA-C-N	6.16	128.82	120.38
1	3U	78	ALA	C-N-CA	6.16	128.82	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	43	195	ASN	CA-CB-CG	-6.16	106.44	112.60
1	4k	55	MET	O-C-N	-6.16	115.13	122.15
1	4U	81	ASP	N-CA-C	6.16	120.05	112.54
1	50	216	THR	N-CA-CB	6.16	119.82	110.95
1	57	167	ARG	N-CA-CB	-6.16	101.08	110.01
1	59	50	GLN	N-CA-CB	6.16	119.12	109.94
1	59	120	HIS	CA-CB-CG	6.16	119.96	113.80
1	5b	103	ASP	N-CA-C	-6.16	106.30	113.88
1	5s	131	LYS	N-CA-C	6.16	118.78	111.33
1	5H	49	PRO	N-CA-CB	6.16	110.28	103.26
1	6u	41	SER	CA-C-O	6.16	127.08	120.55
1	6P	100	ARG	CG-CD-NE	-6.16	98.45	112.00
1	6R	116	GLY	O-C-N	6.16	128.16	122.19
1	6Z	184	TRP	CG-CD2-CE3	-6.16	127.74	133.90
1	75	125	PRO	N-CA-CB	-6.16	96.78	103.25
1	7d	141	ILE	N-CA-C	6.16	116.90	110.62
1	7I	223	GLY	CA-C-N	6.16	125.56	118.85
1	7I	223	GLY	C-N-CA	6.16	125.56	118.85
1	7U	24	VAL	CA-C-O	6.16	127.35	120.95
1	86	226	HIS	CA-CB-CG	6.16	119.96	113.80
1	87	146	SER	CA-C-O	-6.16	113.27	119.24
1	8a	2	ILE	N-CA-CB	6.16	117.24	110.53
1	8d	134	ILE	O-C-N	-6.16	115.90	121.87
1	8m	219	GLN	N-CA-C	6.16	119.55	109.76
1	8G	143	ARG	NE-CZ-NH2	-6.16	113.66	119.20
1	8J	157	PRO	N-CA-CB	-6.16	97.73	103.46
1	8Z	160	PRO	CA-C-N	6.16	133.30	121.54
1	8Z	160	PRO	C-N-CA	6.16	133.30	121.54
1	98	149	SER	N-CA-CB	6.16	121.61	111.08
1	9b	159	GLU	N-CA-C	6.16	118.94	110.01
1	9i	20	LEU	CA-C-N	6.16	128.53	120.28
1	9i	20	LEU	C-N-CA	6.16	128.53	120.28
1	9t	71	GLU	O-C-N	-6.16	115.02	122.22
1	9v	67	GLN	CB-CG-CD	6.16	123.07	112.60
1	9v	143	ARG	NE-CZ-NH2	6.16	124.74	119.20
1	9P	91	ILE	O-C-N	-6.16	115.02	122.59
1	9R	204	ALA	CA-C-N	-6.16	112.47	122.26
1	9R	204	ALA	C-N-CA	-6.16	112.47	122.26
1	9S	112	GLN	N-CA-CB	6.16	118.94	110.01
1	ai	8	GLY	CA-C-N	6.16	129.46	120.71
1	ai	8	GLY	C-N-CA	6.16	129.46	120.71
1	aC	171	THR	N-CA-C	6.16	118.79	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aU	188	THR	CA-CB-CG2	6.16	120.97	110.50
1	bd	143	ARG	CA-C-N	6.16	128.85	120.54
1	bd	143	ARG	C-N-CA	6.16	128.85	120.54
1	bq	173	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	bu	186	THR	O-C-N	-6.16	113.96	122.46
1	bw	87	HIS	N-CA-CB	6.16	119.65	110.29
1	bB	75	GLU	O-C-N	6.16	128.65	122.12
1	bD	41	SER	CA-C-N	6.16	128.53	120.28
1	bD	41	SER	C-N-CA	6.16	128.53	120.28
1	1a	95	GLN	N-CA-C	6.16	118.50	111.11
1	bU	92	GLU	CA-C-N	6.16	126.52	119.93
1	bU	92	GLU	C-N-CA	6.16	126.52	119.93
1	bY	220	GLY	O-C-N	-6.16	114.69	122.70
1	c4	207	PRO	CB-CA-C	6.16	120.67	111.68
1	cl	11	VAL	O-C-N	-6.16	116.61	123.26
1	dg	187	GLU	N-CA-C	6.16	120.53	112.89
1	dj	133	TRP	CA-CB-CG	6.16	125.30	113.60
1	dl	228	ALA	CA-C-N	6.16	129.58	120.90
1	dl	228	ALA	C-N-CA	6.16	129.58	120.90
1	dn	33	SER	O-C-N	-6.16	114.53	121.43
1	ds	84	HIS	CB-CA-C	-6.16	104.90	110.44
1	du	140	LYS	CA-C-N	6.16	128.90	120.46
1	du	140	LYS	C-N-CA	6.16	128.90	120.46
1	dv	204	ALA	CA-C-O	6.16	127.06	119.79
1	dy	126	VAL	N-CA-C	6.16	116.83	110.36
1	ef	55	MET	O-C-N	-6.16	115.13	122.15
1	f5	119	THR	O-C-N	-6.16	114.92	122.25
1	f9	22	ALA	N-CA-C	6.16	117.66	111.07
1	fi	54	THR	CA-C-N	6.16	128.45	120.44
1	fi	54	THR	C-N-CA	6.16	128.45	120.44
1	fL	89	GLY	CA-C-N	6.16	127.54	119.84
1	fL	89	GLY	C-N-CA	6.16	127.54	119.84
1	g7	173	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	1B	205	LEU	CA-C-N	6.16	131.54	121.87
1	1B	205	LEU	C-N-CA	6.16	131.54	121.87
1	r	92	GLU	CA-C-N	6.16	127.54	119.84
1	r	92	GLU	C-N-CA	6.16	127.54	119.84
1	F	169	TYR	O-C-N	-6.16	115.59	122.12
1	T	120	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	ge	5	ASN	N-CA-C	6.16	118.79	111.71
1	gj	199	LYS	CA-CB-CG	6.16	126.41	114.10
1	gl	10	MET	N-CA-C	6.16	119.19	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gO	168	PHE	CA-C-N	6.16	128.53	120.28
1	gO	168	PHE	C-N-CA	6.16	128.53	120.28
1	h6	49	PRO	N-CA-C	6.16	125.15	112.47
1	hn	167	ARG	N-CA-C	6.16	117.66	111.07
1	hC	63	GLN	O-C-N	-6.16	115.59	122.12
1	hR	7	GLN	CA-C-N	6.16	129.06	121.06
1	hR	7	GLN	C-N-CA	6.16	129.06	121.06
1	iX	124	ILE	CB-CA-C	6.16	117.86	110.78
1	jq	183	ASN	N-CA-CB	-6.16	101.07	110.12
1	jz	62	HIS	ND1-CG-CD2	6.16	112.26	106.10
1	k2	100	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	k4	207	PRO	CA-C-N	6.16	129.03	120.29
1	k4	207	PRO	C-N-CA	6.16	129.03	120.29
1	k9	127	GLY	CA-C-N	6.16	128.53	120.28
1	k9	127	GLY	C-N-CA	6.16	128.53	120.28
1	kt	89	GLY	N-CA-C	6.16	119.67	112.10
1	kz	40	PHE	O-C-N	-6.16	115.13	122.15
1	kN	120	HIS	CG-CD2-NE2	6.16	113.36	107.20
1	3p	120	HIS	CA-CB-CG	6.16	119.96	113.80
1	4i	167	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	5H	228	ALA	CA-C-N	6.16	131.50	122.63
1	5H	228	ALA	C-N-CA	6.16	131.50	122.63
1	62	172	LEU	CA-C-N	6.16	128.81	120.38
1	62	172	LEU	C-N-CA	6.16	128.81	120.38
1	6e	226	HIS	N-CA-C	6.16	118.79	108.02
1	6n	186	THR	N-CA-CB	6.16	120.13	110.46
1	6z	37	ILE	O-C-N	-6.16	114.08	121.10
1	6S	93	PRO	O-C-N	-6.16	114.33	122.64
1	74	10	MET	CA-C-N	6.16	129.35	120.98
1	74	10	MET	C-N-CA	6.16	129.35	120.98
1	7c	148	THR	N-CA-CB	6.16	121.54	110.83
1	8L	5	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	94	50	GLN	CG-CD-NE2	-6.16	107.16	116.40
1	av	162	ARG	CD-NE-CZ	6.16	133.02	124.40
1	aJ	84	HIS	ND1-CG-CD2	-6.16	99.94	106.10
1	b8	63	GLN	CA-C-N	6.16	128.44	120.44
1	b8	63	GLN	C-N-CA	6.16	128.44	120.44
1	bf	166	ASP	CB-CA-C	6.16	120.55	110.88
1	17	218	CYS	N-CA-CB	6.16	121.83	112.47
1	bi	178	SER	CA-C-N	6.16	128.53	120.28
1	bi	178	SER	C-N-CA	6.16	128.53	120.28
1	bG	12	HIS	O-C-N	-6.16	115.59	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bJ	102	SER	O-C-N	-6.16	115.59	122.12
1	bV	70	LYS	CA-C-O	6.16	127.08	120.55
1	c3	37	ILE	N-CA-C	6.16	121.54	112.61
1	1g	161	PHE	CA-C-N	6.16	130.06	120.82
1	1g	161	PHE	C-N-CA	6.16	130.06	120.82
1	dk	215	MET	CG-SD-CE	-6.16	87.36	100.90
1	e8	154	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	el	139	ASN	CA-CB-CG	6.16	118.76	112.60
1	el	197	ASP	O-C-N	-6.16	115.44	122.09
1	eM	215	MET	N-CA-C	6.16	118.96	111.82
1	fq	128	GLU	CA-C-N	6.16	128.32	120.56
1	fq	128	GLU	C-N-CA	6.16	128.32	120.56
1	fQ	178	SER	CA-C-N	6.16	128.53	120.28
1	fQ	178	SER	C-N-CA	6.16	128.53	120.28
1	fX	9	GLN	CA-C-N	6.16	129.58	120.90
1	fX	9	GLN	C-N-CA	6.16	129.58	120.90
1	g1	88	ALA	CA-C-N	6.16	131.54	121.87
1	g1	88	ALA	C-N-CA	6.16	131.54	121.87
1	e	135	ILE	N-CA-CB	6.16	117.34	110.51
1	h	171	THR	N-CA-C	6.16	117.66	111.07
1	W	167	ARG	N-CA-CB	6.16	119.27	110.16
1	gi	12	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	gn	23	TRP	CB-CG-CD1	-6.16	117.67	126.90
1	1D	164	TYR	CG-CD1-CE1	-6.16	111.97	121.20
1	gA	138	LEU	N-CA-CB	6.16	119.00	110.07
1	gW	149	SER	CA-C-O	-6.16	113.44	120.58
1	gW	219	GLN	N-CA-C	6.16	118.72	110.35
1	1H	139	ASN	OD1-CG-ND2	6.16	128.76	122.60
1	hj	113	GLU	CA-C-N	6.16	128.53	120.28
1	hj	113	GLU	C-N-CA	6.16	128.53	120.28
1	hl	171	THR	CA-CB-OG1	6.16	118.83	109.60
1	hs	84	HIS	CB-CA-C	-6.16	101.51	110.13
1	1K	132	ARG	CA-C-N	6.16	128.53	120.28
1	1K	132	ARG	C-N-CA	6.16	128.53	120.28
1	hF	26	VAL	CB-CA-C	-6.16	104.09	111.97
1	hQ	67	GLN	N-CA-C	6.16	117.99	111.28
1	i6	21	ASN	N-CA-C	6.16	117.99	111.28
1	i7	58	THR	N-CA-CB	6.16	119.29	110.06
1	ih	214	MET	N-CA-C	6.16	118.50	111.11
1	1Q	41	SER	CA-C-N	6.16	128.53	120.28
1	1Q	41	SER	C-N-CA	6.16	128.53	120.28
1	iC	81	ASP	CA-CB-CG	6.16	118.76	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iL	195	ASN	CA-C-N	6.16	125.88	119.05
1	iL	195	ASN	C-N-CA	6.16	125.88	119.05
1	iM	168	PHE	CA-C-O	6.16	127.08	120.55
1	iS	19	THR	CA-C-O	-6.16	114.36	120.82
1	iU	93	PRO	N-CA-C	-6.16	101.53	111.19
1	j0	58	THR	N-CA-CB	6.16	119.70	110.53
1	j1	167	ARG	NH1-CZ-NH2	-6.16	111.30	119.30
1	j2	97	ARG	O-C-N	-6.16	114.40	122.59
1	jc	204	ALA	O-C-N	-6.16	115.02	122.22
1	jx	62	HIS	ND1-CG-CD2	6.16	112.26	106.10
1	jJ	190	LEU	CA-C-O	6.16	126.94	119.31
1	jK	113	GLU	O-C-N	-6.16	115.73	122.07
1	kd	162	ARG	CA-C-O	6.16	127.28	120.82
1	ku	138	LEU	CA-C-N	6.16	128.53	120.28
1	ku	138	LEU	C-N-CA	6.16	128.53	120.28
1	kv	184	TRP	CA-C-N	6.16	129.03	120.29
1	kv	184	TRP	C-N-CA	6.16	129.03	120.29
1	kG	74	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	kK	93	PRO	N-CA-CB	6.16	109.71	103.25
1	kK	116	GLY	CA-C-O	-6.16	114.14	120.66
1	kQ	143	ARG	NH1-CZ-NH2	-6.16	111.30	119.30
1	kS	71	GLU	N-CA-C	6.16	117.99	111.28
1	l0	5	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	lb	29	GLU	N-CA-C	6.16	122.84	113.61
1	lc	33	SER	CA-C-N	6.16	127.53	119.84
1	lc	33	SER	C-N-CA	6.16	127.53	119.84
1	lc	87	HIS	CE1-NE2-CD2	-6.16	102.84	109.00
1	ld	140	LYS	CA-C-O	6.16	127.07	120.55
1	27	83	LEU	O-C-N	-6.16	115.60	122.12
1	27	84	HIS	CA-CB-CG	-6.16	107.64	113.80
1	lk	11	VAL	CA-C-O	6.16	127.53	121.19
1	lK	129	ILE	CA-C-N	6.16	128.44	120.44
1	lK	129	ILE	C-N-CA	6.16	128.44	120.44
1	2k	35	GLU	CA-C-N	6.16	128.32	120.56
1	2k	35	GLU	C-N-CA	6.16	128.32	120.56
1	2v	63	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	2D	165	VAL	N-CA-CB	6.16	118.91	110.54
1	2I	31	ALA	N-CA-C	6.16	118.96	111.82
1	2P	179	GLN	N-CA-C	6.16	123.91	110.80
1	2W	139	ASN	CA-C-O	-6.16	114.36	120.82
1	36	3	VAL	CA-C-O	-6.16	113.58	121.40
1	3d	141	ILE	N-CA-C	6.16	116.33	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	68	MET	N-CA-C	-6.16	104.57	111.28
1	3r	58	THR	CA-C-O	6.16	127.08	120.55
1	3R	168	PHE	O-C-N	-6.16	115.13	122.15
1	3W	100	ARG	NH1-CZ-NH2	-6.16	111.30	119.30
1	44	74	ASN	CB-CG-OD1	6.16	133.11	120.80
1	4a	54	THR	CA-CB-CG2	6.16	120.96	110.50
1	4b	170	LYS	O-C-N	-6.16	115.73	122.07
1	4n	38	PRO	CA-C-N	6.16	128.44	120.44
1	4n	38	PRO	C-N-CA	6.16	128.44	120.44
1	4s	21	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	4x	37	ILE	CA-C-N	6.16	125.56	118.85
1	4x	37	ILE	C-N-CA	6.16	125.56	118.85
1	4y	159	GLU	O-C-N	-6.16	114.90	121.42
1	4z	190	LEU	O-C-N	6.16	129.17	122.15
1	4D	189	LEU	O-C-N	-6.16	114.40	122.59
1	4G	9	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	52	58	THR	CA-C-N	6.16	128.54	120.60
1	52	58	THR	C-N-CA	6.16	128.54	120.60
1	56	5	ASN	OD1-CG-ND2	-6.16	116.44	122.60
1	5a	226	HIS	ND1-CE1-NE2	6.16	114.56	108.40
1	5d	179	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	5f	144	MET	CG-SD-CE	-6.16	87.36	100.90
1	5g	21	ASN	OD1-CG-ND2	6.16	128.75	122.60
1	5j	17	PRO	CA-C-N	6.16	128.44	120.44
1	5j	17	PRO	C-N-CA	6.16	128.44	120.44
1	5L	162	ARG	NE-CZ-NH2	-6.16	113.66	119.20
1	5L	224	PRO	N-CA-C	6.16	125.15	112.47
1	5Q	54	THR	O-C-N	-6.16	115.73	122.07
1	62	146	SER	O-C-N	-6.16	115.82	121.30
1	6G	141	ILE	O-C-N	-6.16	115.49	121.83
1	74	199	LYS	N-CA-C	6.16	117.99	111.28
1	7t	114	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	7u	71	GLU	CA-C-N	6.16	128.53	120.28
1	7u	71	GLU	C-N-CA	6.16	128.53	120.28
1	7I	4	GLN	OE1-CD-NE2	-6.16	116.44	122.60
1	7M	130	TYR	CA-C-N	6.16	128.85	120.54
1	7M	130	TYR	C-N-CA	6.16	128.85	120.54
1	7X	132	ARG	CA-C-N	6.16	128.53	120.28
1	7X	132	ARG	C-N-CA	6.16	128.53	120.28
1	86	152	ASP	N-CA-CB	-6.16	101.10	110.33
1	8k	143	ARG	NE-CZ-NH1	6.16	127.66	121.50
1	8k	188	THR	O-C-N	6.16	129.03	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8n	41	SER	N-CA-C	6.16	117.66	111.07
1	8F	195	ASN	CA-CB-CG	6.16	118.75	112.60
1	8L	134	ILE	CA-C-O	6.16	127.35	120.95
1	8X	80	TRP	O-C-N	-6.16	115.60	122.12
1	92	51	ASP	N-CA-CB	6.16	118.94	110.01
1	9g	177	ALA	N-CA-C	6.16	123.91	110.80
1	9j	230	VAL	CB-CA-C	-6.16	103.15	111.15
1	9u	88	ALA	N-CA-C	6.16	118.96	111.82
1	9w	198	CYS	O-C-N	-6.16	115.59	122.12
1	a1	204	ALA	N-CA-C	6.16	118.50	111.11
1	a3	62	HIS	CA-CB-CG	6.16	119.95	113.80
1	ah	224	PRO	CA-C-N	6.16	125.95	120.10
1	ah	224	PRO	C-N-CA	6.16	125.95	120.10
1	al	59	VAL	N-CA-CB	-6.16	102.74	110.31
1	aT	101	GLY	CA-C-N	6.16	128.53	120.28
1	aT	101	GLY	C-N-CA	6.16	128.53	120.28
1	bd	84	HIS	CA-C-N	6.16	127.53	119.84
1	bd	84	HIS	C-N-CA	6.16	127.53	119.84
1	bk	135	ILE	N-CA-C	6.16	118.74	111.05
1	bm	224	PRO	CB-CA-C	-6.16	103.88	111.64
1	bC	188	THR	CA-C-N	6.16	128.53	120.28
1	bC	188	THR	C-N-CA	6.16	128.53	120.28
1	1c	50	GLN	CB-CG-CD	6.16	123.06	112.60
1	cl	69	LEU	N-CA-C	6.16	117.66	111.07
1	cn	18	ARG	N-CA-C	6.16	117.99	111.28
1	cs	21	ASN	CA-CB-CG	6.16	118.76	112.60
1	cy	9	GLN	CA-C-O	-6.16	114.70	121.84
1	cM	170	LYS	N-CA-C	6.16	118.79	111.71
1	cP	84	HIS	CG-CD2-NE2	6.16	113.36	107.20
1	d5	130	TYR	CA-C-N	6.16	128.53	120.28
1	d5	130	TYR	C-N-CA	6.16	128.53	120.28
1	d9	33	SER	CA-C-O	-6.16	114.41	120.26
1	dj	15	ILE	CA-C-N	6.16	129.02	120.65
1	dj	15	ILE	C-N-CA	6.16	129.02	120.65
1	ds	99	PRO	CA-C-N	6.16	129.87	120.82
1	ds	99	PRO	C-N-CA	6.16	129.87	120.82
1	dz	71	GLU	CA-C-N	6.16	128.44	120.44
1	dz	71	GLU	C-N-CA	6.16	128.44	120.44
1	dB	18	ARG	CD-NE-CZ	6.16	133.02	124.40
1	dT	167	ARG	CA-C-N	6.16	128.44	120.44
1	dT	167	ARG	C-N-CA	6.16	128.44	120.44
1	ee	102	SER	N-CA-C	6.16	120.34	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eh	143	ARG	NH1-CZ-NH2	-6.16	111.30	119.30
1	em	34	PRO	CA-C-N	6.16	129.67	120.31
1	em	34	PRO	C-N-CA	6.16	129.67	120.31
1	eu	163	ASP	N-CA-C	6.16	117.99	111.28
1	eC	97	ARG	CD-NE-CZ	-6.16	115.78	124.40
1	eI	136	LEU	CA-C-N	6.16	126.65	119.94
1	eI	136	LEU	C-N-CA	6.16	126.65	119.94
1	eR	123	PRO	O-C-N	6.16	130.36	122.85
1	eS	103	ASP	CA-C-N	6.16	128.89	120.46
1	eS	103	ASP	C-N-CA	6.16	128.89	120.46
1	eT	25	LYS	O-C-N	-6.16	115.73	122.07
1	eT	126	VAL	CA-C-O	-6.16	114.55	120.95
1	f6	120	HIS	CG-CD2-NE2	6.16	113.36	107.20
1	f9	101	GLY	N-CA-C	6.16	120.12	112.73
1	fs	197	ASP	CA-C-N	6.16	129.14	120.28
1	fs	197	ASP	C-N-CA	6.16	129.14	120.28
1	1y	21	ASN	CA-CB-CG	6.16	118.76	112.60
1	fG	201	ILE	CA-CB-CG2	6.16	120.96	110.50
1	fR	46	GLY	CA-C-N	6.16	130.60	120.94
1	fR	46	GLY	C-N-CA	6.16	130.60	120.94
1	fU	200	THR	OG1-CB-CG2	-6.16	96.99	109.30
1	1A	66	MET	CG-SD-CE	-6.16	87.36	100.90
1	s	91	ILE	CB-CG1-CD1	6.16	126.73	113.80
1	J	134	ILE	N-CA-CB	6.16	118.45	110.57
1	L	84	HIS	N-CA-C	6.16	123.41	109.81
1	T	185	MET	N-CA-C	6.16	120.05	112.54
1	gp	48	THR	CA-C-N	6.15	126.34	119.32
1	gp	48	THR	C-N-CA	6.15	126.34	119.32
1	gv	100	ARG	NE-CZ-NH2	-6.15	113.66	119.20
1	gP	156	GLY	CA-C-N	6.15	125.78	119.56
1	gP	156	GLY	C-N-CA	6.15	125.78	119.56
1	hc	167	ARG	N-CA-C	6.15	117.99	111.28
1	hl	26	VAL	CA-C-N	6.15	128.31	120.56
1	hl	26	VAL	C-N-CA	6.15	128.31	120.56
1	i8	76	GLU	N-CA-C	6.15	118.07	111.36
1	j4	55	MET	N-CA-CB	6.15	119.17	110.12
1	jm	161	PHE	CA-CB-CG	-6.15	107.65	113.80
1	jq	73	ILE	O-C-N	-6.15	115.88	121.91
1	jQ	82	ARG	CD-NE-CZ	6.15	133.02	124.40
1	kE	124	ILE	N-CA-C	-6.15	95.59	108.88
1	l4	4	GLN	OE1-CD-NE2	6.15	128.75	122.60
1	2d	210	THR	N-CA-CB	6.15	119.64	110.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2k	68	MET	CB-CA-C	-6.15	100.39	110.85
1	2A	211	LEU	O-C-N	-6.15	115.60	122.12
1	3i	12	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	3L	130	TYR	CA-C-N	6.15	128.53	120.28
1	3L	130	TYR	C-N-CA	6.15	128.53	120.28
1	5r	48	THR	CA-C-O	-6.15	114.25	120.96
1	5s	41	SER	N-CA-C	6.15	118.07	111.36
1	6J	48	THR	N-CA-CB	6.15	116.88	109.74
1	7p	131	LYS	N-CA-C	6.15	117.99	111.28
1	7x	197	ASP	O-C-N	-6.15	115.60	122.12
1	8d	230	VAL	CA-C-O	6.15	127.11	120.53
1	8o	94	GLY	N-CA-C	6.15	123.54	115.36
1	8w	166	ASP	CA-C-N	6.15	128.44	120.44
1	8w	166	ASP	C-N-CA	6.15	128.44	120.44
1	8J	37	ILE	CB-CA-C	6.15	119.55	113.70
1	92	93	PRO	CA-C-O	-6.15	114.54	121.43
1	9g	66	MET	N-CA-C	6.15	117.99	111.28
1	a7	68	MET	CA-C-N	6.15	128.81	120.38
1	a7	68	MET	C-N-CA	6.15	128.81	120.38
1	aL	100	ARG	NH1-CZ-NH2	-6.15	111.30	119.30
1	aQ	129	ILE	CB-CA-C	6.15	120.08	112.02
1	b5	45	GLU	O-C-N	-6.15	114.41	122.59
1	b6	64	ALA	N-CA-C	6.15	118.78	111.33
1	dj	163	ASP	CA-C-O	6.15	127.05	119.97
1	dj	183	ASN	N-CA-C	6.15	118.79	111.71
1	dN	176	GLN	CA-C-N	6.15	129.87	120.82
1	dN	176	GLN	C-N-CA	6.15	129.87	120.82
1	e3	15	ILE	N-CA-C	6.15	116.99	109.30
1	e3	169	TYR	N-CA-C	6.15	118.07	111.36
1	ec	19	THR	CA-CB-CG2	6.15	120.96	110.50
1	er	12	HIS	CA-CB-CG	-6.15	107.65	113.80
1	ev	164	TYR	CB-CG-CD2	-6.15	111.57	120.80
1	eF	62	HIS	CB-CG-CD2	-6.15	123.20	131.20
1	eW	120	HIS	ND1-CE1-NE2	6.15	114.55	108.40
1	f8	126	VAL	CB-CA-C	-6.15	103.83	112.14
1	fT	171	THR	O-C-N	-6.15	115.44	122.09
1	1B	143	ARG	O-C-N	-6.15	115.44	122.09
1	0	3	VAL	CA-C-O	6.15	127.56	120.67
1	c	215	MET	O-C-N	6.15	128.64	122.12
1	gg	37	ILE	O-C-N	-6.15	114.09	121.10
1	gz	96	MET	CB-CA-C	6.15	119.89	109.80
1	gz	143	ARG	CA-C-N	6.15	129.66	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gz	143	ARG	C-N-CA	6.15	129.66	120.31
1	1E	83	LEU	CA-C-O	6.15	126.55	119.35
1	h3	5	ASN	N-CA-CB	6.15	120.89	110.49
1	hg	123	PRO	CA-C-N	6.15	127.02	122.59
1	hg	123	PRO	C-N-CA	6.15	127.02	122.59
1	ho	84	HIS	CA-CB-CG	-6.15	107.65	113.80
1	hp	193	ASN	CA-C-N	6.15	132.17	120.97
1	hp	193	ASN	C-N-CA	6.15	132.17	120.97
1	hr	82	ARG	O-C-N	-6.15	114.99	122.25
1	hv	36	VAL	CA-C-N	6.15	125.25	120.33
1	hv	36	VAL	C-N-CA	6.15	125.25	120.33
1	hF	221	VAL	CA-CB-CG2	6.15	120.86	110.40
1	hO	82	ARG	N-CA-C	6.15	119.98	112.23
1	i9	138	LEU	CA-C-O	-6.15	114.03	120.55
1	ii	25	LYS	N-CA-C	6.15	118.07	111.36
1	iC	9	GLN	CA-C-O	-6.15	114.85	121.56
1	iJ	32	PHE	N-CA-C	-6.15	105.71	112.72
1	iN	204	ALA	CA-C-N	6.15	129.03	120.29
1	iN	204	ALA	C-N-CA	6.15	129.03	120.29
1	iP	224	PRO	CA-C-N	6.15	130.45	121.96
1	iP	224	PRO	C-N-CA	6.15	130.45	121.96
1	j1	61	GLY	CA-C-N	6.15	131.13	122.46
1	j1	61	GLY	C-N-CA	6.15	131.13	122.46
1	j4	73	ILE	O-C-N	-6.15	115.49	121.83
1	jD	41	SER	N-CA-CB	6.15	118.93	110.01
1	k4	138	LEU	CA-C-N	6.15	128.81	120.38
1	k4	138	LEU	C-N-CA	6.15	128.81	120.38
1	k5	134	ILE	CA-C-N	6.15	129.16	120.42
1	k5	134	ILE	C-N-CA	6.15	129.16	120.42
1	k9	7	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	kr	39	MET	CA-C-N	6.15	128.53	120.28
1	kr	39	MET	C-N-CA	6.15	128.53	120.28
1	kG	114	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	24	107	THR	N-CA-C	6.15	118.06	111.36
1	kX	151	LEU	N-CA-C	6.15	117.99	111.28
1	l3	34	PRO	CA-C-N	6.15	131.00	120.72
1	l3	34	PRO	C-N-CA	6.15	131.00	120.72
1	26	1	PRO	CA-C-N	6.15	129.46	120.91
1	26	1	PRO	C-N-CA	6.15	129.46	120.91
1	le	133	TRP	CA-C-O	6.15	127.07	120.24
1	lj	209	ALA	N-CA-C	6.15	119.18	110.50
1	lm	178	SER	CA-CB-OG	6.15	123.41	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	17	PRO	CA-C-N	6.15	128.44	120.44
1	lC	17	PRO	C-N-CA	6.15	128.44	120.44
1	lK	107	THR	N-CA-C	6.15	118.07	111.36
1	2G	5	ASN	N-CA-C	-6.15	105.60	113.23
1	2J	215	MET	N-CA-C	6.15	118.79	111.71
1	2X	13	GLN	CA-C-N	6.15	129.45	120.71
1	2X	13	GLN	C-N-CA	6.15	129.45	120.71
1	2X	83	LEU	O-C-N	-6.15	115.60	122.12
1	3e	146	SER	O-C-N	-6.15	114.54	121.43
1	3g	100	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	3g	132	ARG	NH1-CZ-NH2	-6.15	111.30	119.30
1	3p	27	VAL	CA-C-O	6.15	127.37	120.85
1	3Z	173	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	57	132	ARG	N-CA-C	6.15	118.77	111.33
1	5a	132	ARG	CG-CD-NE	-6.15	98.47	112.00
1	5e	136	LEU	CB-CA-C	-6.15	101.22	110.88
1	5h	100	ARG	NE-CZ-NH2	-6.15	113.66	119.20
1	5u	114	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	5w	51	ASP	N-CA-C	6.15	117.65	111.07
1	5D	83	LEU	CA-C-N	6.15	131.99	121.35
1	5D	83	LEU	C-N-CA	6.15	131.99	121.35
1	5N	43	LEU	N-CA-CB	-6.15	100.18	110.39
1	6f	23	TRP	N-CA-C	6.15	118.53	111.02
1	7d	192	GLN	CB-CA-C	6.15	121.53	109.72
1	7q	221	VAL	N-CA-CB	6.15	117.43	110.72
1	7z	227	LYS	N-CA-CB	6.15	119.52	110.35
1	7H	80	TRP	CD2-CE2-CZ2	-6.15	116.25	122.40
1	7J	62	HIS	CB-CG-ND1	-6.15	113.47	122.70
1	7O	209	ALA	O-C-N	-6.15	116.21	123.22
1	8j	48	THR	N-CA-CB	6.15	118.27	109.78
1	8r	176	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	8E	209	ALA	N-CA-C	6.15	118.24	110.24
1	8O	207	PRO	O-C-N	6.15	130.58	122.27
1	8Y	148	THR	O-C-N	-6.15	116.38	123.33
1	91	214	MET	CA-C-O	6.15	127.07	120.55
1	9P	150	ILE	CA-C-O	6.15	127.48	119.85
1	a0	216	THR	N-CA-CB	6.15	119.57	110.53
1	ac	104	ILE	O-C-N	-6.15	115.90	121.87
1	ah	4	GLN	N-CA-CB	6.15	120.89	110.49
1	ap	74	ASN	CA-C-O	6.15	127.07	120.55
1	ay	184	TRP	O-C-N	-6.15	115.60	122.12
1	aB	37	ILE	CB-CA-C	6.15	122.06	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aN	123	PRO	N-CA-CB	-6.15	96.79	103.25
1	aR	190	LEU	O-C-N	-6.15	115.60	122.12
1	aT	178	SER	N-CA-C	6.15	118.65	110.53
1	bc	15	ILE	N-CA-C	6.15	117.52	109.58
1	be	180	GLU	N-CA-C	6.15	117.99	111.28
1	bj	169	TYR	CA-C-O	-6.15	112.53	119.79
1	bl	229	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	bo	55	MET	CG-SD-CE	-6.15	87.36	100.90
1	by	102	SER	CA-C-O	6.15	127.07	120.55
1	1a	71	GLU	CA-C-N	6.15	129.34	120.79
1	1a	71	GLU	C-N-CA	6.15	129.34	120.79
1	bO	124	ILE	CA-C-O	6.15	122.56	119.12
1	bY	1	PRO	CA-C-N	6.15	131.37	123.13
1	bY	1	PRO	C-N-CA	6.15	131.37	123.13
1	bY	210	THR	CA-C-N	6.15	128.53	120.28
1	bY	210	THR	C-N-CA	6.15	128.53	120.28
1	c1	159	GLU	CA-C-N	6.15	126.12	119.78
1	c1	159	GLU	C-N-CA	6.15	126.12	119.78
1	ci	222	GLY	CA-C-N	6.15	131.53	121.87
1	ci	222	GLY	C-N-CA	6.15	131.53	121.87
1	co	162	ARG	CB-CA-C	6.15	120.54	110.88
1	cq	163	ASP	CA-C-N	6.15	128.44	120.44
1	cq	163	ASP	C-N-CA	6.15	128.44	120.44
1	cQ	219	GLN	O-C-N	-6.15	115.32	122.95
1	cU	139	ASN	CA-CB-CG	6.15	118.75	112.60
1	1i	22	ALA	N-CA-C	6.15	120.05	112.54
1	d9	129	ILE	N-CA-C	6.15	116.89	110.62
1	dk	59	VAL	N-CA-CB	6.15	117.65	110.82
1	dp	77	ALA	O-C-N	-6.15	115.73	122.07
1	dw	10	MET	O-C-N	-6.15	114.41	122.59
1	dJ	26	VAL	CA-CB-CG2	-6.15	99.94	110.40
1	dP	23	TRP	O-C-N	6.15	128.64	122.12
1	1n	162	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	ea	4	GLN	N-CA-C	6.15	120.10	110.32
1	ei	12	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	el	97	ARG	N-CA-C	6.15	119.58	111.28
1	en	85	PRO	O-C-N	6.15	130.09	123.01
1	eq	183	ASN	OD1-CG-ND2	6.15	128.75	122.60
1	ew	63	GLN	CA-C-O	6.15	125.55	118.97
1	eD	177	ALA	O-C-N	-6.15	116.84	123.42
1	eQ	114	GLN	N-CA-C	6.15	117.99	111.28
1	fA	58	THR	O-C-N	-6.15	114.65	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fK	222	GLY	O-C-N	6.15	130.70	122.70
1	1z	104	ILE	N-CA-CB	6.15	118.91	110.54
1	fT	108	THR	N-CA-CB	6.15	120.27	110.73
1	g0	180	GLU	CA-C-N	6.15	128.89	120.46
1	g0	180	GLU	C-N-CA	6.15	128.89	120.46
1	g7	192	GLN	OE1-CD-NE2	6.15	128.75	122.60
1	ge	51	ASP	CA-CB-CG	6.15	118.75	112.60
1	gf	36	VAL	CA-C-N	6.15	125.25	120.33
1	gf	36	VAL	C-N-CA	6.15	125.25	120.33
1	gR	229	ARG	N-CA-C	6.15	119.15	110.23
1	gW	131	LYS	N-CA-C	6.15	118.49	111.11
1	hb	191	VAL	CA-C-N	6.15	128.84	120.54
1	hb	191	VAL	C-N-CA	6.15	128.84	120.54
1	hv	183	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	1K	102	SER	O-C-N	-6.15	115.14	122.15
1	hV	195	ASN	CA-CB-CG	6.15	118.75	112.60
1	hZ	156	GLY	CA-C-N	6.15	126.27	119.87
1	hZ	156	GLY	C-N-CA	6.15	126.27	119.87
1	ia	173	ARG	CA-CB-CG	6.15	126.40	114.10
1	ii	87	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	is	26	VAL	N-CA-C	-6.15	104.51	110.72
1	iL	173	ARG	NE-CZ-NH2	-6.15	113.67	119.20
1	iR	36	VAL	N-CA-C	6.15	116.31	110.53
1	iY	148	THR	CA-C-O	-6.15	112.71	120.28
1	j1	156	GLY	CA-C-O	-6.15	112.72	121.52
1	jF	41	SER	N-CA-C	6.15	117.98	111.28
1	jR	135	ILE	CB-CA-C	6.15	120.44	112.14
1	jY	72	THR	CA-C-N	6.15	128.83	120.77
1	jY	72	THR	C-N-CA	6.15	128.83	120.77
1	ko	186	THR	CB-CA-C	-6.15	100.58	110.79
1	kp	138	LEU	CA-C-N	6.15	128.52	120.28
1	kp	138	LEU	C-N-CA	6.15	128.52	120.28
1	kz	230	VAL	CB-CA-C	6.15	119.06	111.25
1	kB	201	ILE	N-CA-C	6.15	118.74	111.05
1	kG	200	THR	CA-C-N	6.15	128.31	120.56
1	kG	200	THR	C-N-CA	6.15	128.31	120.56
1	kH	141	ILE	CA-C-O	6.15	127.35	120.95
1	24	129	ILE	N-CA-C	6.15	116.33	110.42
1	l9	53	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	lb	74	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	li	134	ILE	O-C-N	-6.15	115.90	121.87
1	lk	154	ARG	NE-CZ-NH1	6.15	127.65	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	28	59	VAL	CA-C-N	6.15	133.47	121.41
1	28	59	VAL	C-N-CA	6.15	133.47	121.41
1	ls	191	VAL	CA-CB-CG2	-6.15	99.94	110.40
1	lv	13	GLN	CA-C-O	-6.15	114.65	121.23
1	2d	16	SER	CA-C-N	6.15	125.88	119.05
1	2d	16	SER	C-N-CA	6.15	125.88	119.05
1	2h	99	PRO	N-CA-CB	-6.15	97.84	103.31
1	2k	103	ASP	CA-C-N	6.15	129.16	120.42
1	2k	103	ASP	C-N-CA	6.15	129.16	120.42
1	2u	74	ASN	CA-C-N	6.15	128.44	120.44
1	2u	74	ASN	C-N-CA	6.15	128.44	120.44
1	2O	159	GLU	N-CA-CB	-6.15	102.59	110.03
1	2X	84	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	3j	28	GLU	CA-C-O	-6.15	114.36	120.82
1	3j	76	GLU	CA-C-N	6.15	128.81	120.38
1	3j	76	GLU	C-N-CA	6.15	128.81	120.38
1	3k	103	ASP	CA-C-N	6.15	129.15	120.42
1	3k	103	ASP	C-N-CA	6.15	129.15	120.42
1	3s	145	TYR	N-CA-C	6.15	119.28	110.24
1	3t	198	CYS	CA-C-N	6.15	128.84	120.54
1	3t	198	CYS	C-N-CA	6.15	128.84	120.54
1	3J	178	SER	N-CA-C	6.15	118.24	110.24
1	3O	39	MET	CA-C-N	6.15	129.02	120.29
1	3O	39	MET	C-N-CA	6.15	129.02	120.29
1	4b	63	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	4C	225	GLY	N-CA-C	6.15	122.99	111.80
1	4G	21	ASN	O-C-N	-6.15	115.14	122.15
1	4G	140	LYS	CA-C-N	6.15	128.31	120.56
1	4G	140	LYS	C-N-CA	6.15	128.31	120.56
1	4W	124	ILE	O-C-N	-6.15	116.01	121.61
1	51	82	ARG	N-CA-CB	6.15	119.26	110.16
1	53	170	LYS	N-CA-C	6.15	118.78	111.71
1	5l	41	SER	N-CA-CB	6.15	119.81	110.28
1	5n	25	LYS	CA-C-O	-6.15	113.15	120.10
1	5n	82	ARG	N-CA-C	6.15	118.06	111.36
1	5X	155	GLN	O-C-N	-6.15	115.36	122.93
1	6l	66	MET	CA-C-N	6.15	128.52	120.28
1	6l	66	MET	C-N-CA	6.15	128.52	120.28
1	6q	164	TYR	CA-CB-CG	6.15	124.97	113.90
1	6r	55	MET	CA-C-O	-6.15	113.90	120.42
1	6y	146	SER	N-CA-C	6.15	121.89	113.16
1	6C	90	PRO	O-C-N	-6.15	118.36	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	76	GLU	N-CA-C	6.15	118.06	111.36
1	7a	10	MET	CG-SD-CE	-6.15	87.37	100.90
1	7c	60	GLY	N-CA-C	6.15	119.63	112.50
1	7h	203	LYS	N-CA-C	6.15	117.98	111.28
1	7s	170	LYS	N-CA-C	6.15	117.98	111.28
1	7x	20	LEU	CA-C-O	-6.15	113.15	120.10
1	7R	91	ILE	CA-CB-CG2	-6.15	100.05	110.50
1	7W	95	GLN	CG-CD-NE2	6.15	125.63	116.40
1	87	81	ASP	CA-CB-CG	6.15	118.75	112.60
1	8f	5	ASN	CA-C-O	6.15	127.62	120.49
1	8g	201	ILE	N-CA-CB	6.15	119.81	110.58
1	8k	196	PRO	CA-C-O	-6.15	110.68	118.86
1	8v	91	ILE	CA-C-N	6.15	128.91	120.67
1	8v	91	ILE	C-N-CA	6.15	128.91	120.67
1	8z	126	VAL	O-C-N	-6.15	115.79	121.94
1	8J	99	PRO	N-CA-C	6.15	120.87	111.34
1	9d	104	ILE	CA-C-O	6.15	127.15	120.57
1	9l	167	ARG	N-CA-C	6.15	117.65	111.07
1	9A	132	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	9M	63	GLN	N-CA-C	6.15	117.98	111.28
1	9X	134	ILE	N-CA-C	6.15	116.33	110.42
1	Z	37	ILE	CA-C-O	-6.15	114.57	118.69
1	a9	52	LEU	CA-C-N	6.15	128.52	120.28
1	a9	52	LEU	C-N-CA	6.15	128.52	120.28
1	af	84	HIS	CG-CD2-NE2	6.15	113.35	107.20
1	al	48	THR	O-C-N	-6.15	115.15	120.99
1	ay	10	MET	O-C-N	-6.15	114.17	122.41
1	aM	23	TRP	CE2-CD2-CE3	6.15	124.95	118.80
1	b8	10	MET	CG-SD-CE	-6.15	87.37	100.90
1	bv	176	GLN	OE1-CD-NE2	6.15	128.75	122.60
1	bH	70	LYS	N-CA-CB	6.15	118.93	110.01
1	bL	21	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	c4	133	TRP	CA-C-N	6.15	128.31	120.56
1	c4	133	TRP	C-N-CA	6.15	128.31	120.56
1	c9	140	LYS	CA-C-N	6.15	128.31	120.56
1	c9	140	LYS	C-N-CA	6.15	128.31	120.56
1	cr	55	MET	N-CA-C	6.15	117.98	111.28
1	cw	70	LYS	CA-C-N	6.15	128.52	120.28
1	cw	70	LYS	C-N-CA	6.15	128.52	120.28
1	1f	183	ASN	CA-C-N	6.15	128.81	120.44
1	1f	183	ASN	C-N-CA	6.15	128.81	120.44
1	cJ	81	ASP	N-CA-C	6.15	117.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cT	210	THR	CA-C-N	6.15	129.14	120.28
1	cT	210	THR	C-N-CA	6.15	129.14	120.28
1	cU	195	ASN	CA-C-O	-6.15	115.06	120.60
1	dh	116	GLY	O-C-N	6.15	128.09	122.19
1	dl	221	VAL	CA-C-N	6.15	128.63	122.30
1	dl	221	VAL	C-N-CA	6.15	128.63	122.30
1	dI	37	ILE	O-C-N	6.15	124.36	120.42
1	e4	94	GLY	O-C-N	6.15	129.39	123.05
1	e8	12	HIS	CB-CA-C	6.15	119.93	109.53
1	ec	128	GLU	N-CA-C	6.15	118.06	111.36
1	eB	132	ARG	N-CA-C	6.15	118.95	111.82
1	eF	14	ALA	CA-C-N	6.15	128.98	120.49
1	eF	14	ALA	C-N-CA	6.15	128.98	120.49
1	fk	167	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	fw	71	GLU	CA-C-N	6.15	128.52	120.28
1	fw	71	GLU	C-N-CA	6.15	128.52	120.28
1	fH	39	MET	N-CA-C	6.15	117.65	111.07
1	fP	149	SER	N-CA-CB	6.15	118.81	110.38
1	g4	157	PRO	O-C-N	6.15	129.92	122.23
1	e	151	LEU	CB-CA-C	-6.15	100.39	110.85
1	k	117	TRP	N-CA-C	6.15	118.49	111.11
1	v	120	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	8	143	ARG	NE-CZ-NH2	6.15	124.73	119.20
1	gu	138	LEU	N-CA-C	6.15	117.65	111.07
1	gE	196	PRO	CA-C-N	6.15	128.43	120.44
1	gE	196	PRO	C-N-CA	6.15	128.43	120.44
1	gH	158	LYS	O-C-N	-6.15	114.75	122.19
1	1F	208	ALA	CA-C-O	-6.15	112.37	119.56
1	gW	154	ARG	O-C-N	-6.15	115.77	123.27
1	hE	87	HIS	N-CA-C	6.15	118.71	110.35
1	hH	190	LEU	N-CA-CB	-6.15	101.09	110.01
1	if	226	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	iR	144	MET	CA-C-O	-6.15	114.03	120.55
1	iR	185	MET	N-CA-C	6.15	117.65	111.07
1	jf	226	HIS	ND1-CE1-NE2	6.15	114.55	108.40
1	ji	127	GLY	N-CA-C	6.15	120.11	112.73
1	jL	91	ILE	O-C-N	-6.15	116.68	123.20
1	k3	48	THR	O-C-N	-6.15	113.35	121.34
1	k9	211	LEU	O-C-N	-6.15	114.71	122.27
1	k9	219	GLN	CB-CA-C	-6.15	100.23	110.19
1	la	158	LYS	O-C-N	6.15	129.63	122.19
1	2U	155	GLN	CA-C-N	6.15	131.52	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2U	155	GLN	C-N-CA	6.15	131.52	121.87
1	36	208	ALA	N-CA-C	-6.15	105.42	113.17
1	3j	155	GLN	CA-C-O	6.15	128.08	121.44
1	3t	72	THR	N-CA-C	-6.15	104.49	111.07
1	3M	73	ILE	N-CA-C	6.15	116.89	110.62
1	3P	203	LYS	N-CA-C	6.15	119.88	112.38
1	3Z	101	GLY	CA-C-N	6.15	128.52	120.28
1	3Z	101	GLY	C-N-CA	6.15	128.52	120.28
1	4b	52	LEU	CA-C-N	6.15	129.02	120.29
1	4b	52	LEU	C-N-CA	6.15	129.02	120.29
1	4t	127	GLY	N-CA-C	-6.15	104.64	113.86
1	4x	110	THR	CA-CB-OG1	6.15	118.82	109.60
1	5k	18	ARG	CA-C-N	6.15	128.43	120.44
1	5k	18	ARG	C-N-CA	6.15	128.43	120.44
1	61	171	THR	CA-C-O	6.15	127.07	120.55
1	6h	188	THR	CA-C-N	6.15	128.80	120.38
1	6h	188	THR	C-N-CA	6.15	128.80	120.38
1	6v	179	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	6D	229	ARG	O-C-N	-6.15	116.32	123.27
1	6J	82	ARG	NE-CZ-NH2	-6.15	113.67	119.20
1	6W	112	GLN	N-CA-C	6.15	117.65	111.07
1	7N	212	GLU	N-CA-C	6.15	117.98	111.28
1	8h	173	ARG	N-CA-C	6.15	117.65	111.07
1	8X	146	SER	N-CA-CB	6.15	119.09	110.11
1	95	36	VAL	CA-CB-CG1	6.15	120.85	110.40
1	9a	143	ARG	NH1-CZ-NH2	-6.15	111.31	119.30
1	9e	109	SER	CA-C-O	6.15	128.35	121.40
1	9T	228	ALA	N-CA-C	6.15	118.23	110.24
1	a2	134	ILE	N-CA-C	6.15	116.32	110.42
1	as	168	PHE	N-CA-C	6.15	117.65	111.07
1	b7	140	LYS	N-CA-C	6.15	117.65	111.07
1	bd	133	TRP	N-CA-CB	6.15	119.16	110.12
1	bo	40	PHE	CA-C-N	6.15	128.52	120.28
1	bo	40	PHE	C-N-CA	6.15	128.52	120.28
1	bL	180	GLU	CA-C-N	6.15	128.31	120.56
1	bL	180	GLU	C-N-CA	6.15	128.31	120.56
1	1b	91	ILE	N-CA-C	6.15	117.67	109.37
1	bX	30	LYS	CA-C-N	6.15	129.13	120.28
1	bX	30	LYS	C-N-CA	6.15	129.13	120.28
1	c8	37	ILE	N-CA-CB	-6.15	106.40	110.52
1	cf	191	VAL	N-CA-C	6.15	117.70	111.00
1	cF	87	HIS	O-C-N	-6.15	115.39	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cR	18	ARG	N-CA-CB	6.15	119.16	110.12
1	d5	226	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	dc	187	GLU	N-CA-C	6.15	117.65	111.07
1	dF	165	VAL	CA-C-O	6.15	127.69	121.17
1	dH	67	GLN	N-CA-C	6.15	117.98	111.28
1	e3	27	VAL	CA-C-O	6.15	127.37	120.85
1	1r	36	VAL	CA-C-O	6.15	127.37	120.85
1	f8	71	GLU	CA-C-N	6.15	128.84	120.54
1	f8	71	GLU	C-N-CA	6.15	128.84	120.54
1	fR	14	ALA	O-C-N	-6.15	115.74	123.12
1	fY	97	ARG	CA-C-O	6.15	128.06	121.05
1	R	84	HIS	CA-CB-CG	-6.15	107.65	113.80
1	g9	139	ASN	CA-CB-CG	-6.15	106.45	112.60
1	gd	219	GLN	N-CA-C	6.15	118.63	109.59
1	gl	63	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	gr	209	ALA	CA-C-N	6.15	130.59	120.94
1	gr	209	ALA	C-N-CA	6.15	130.59	120.94
1	gy	210	THR	CA-CB-OG1	6.15	118.82	109.60
1	gM	33	SER	CA-C-O	-6.15	114.97	120.56
1	gR	113	GLU	N-CA-C	6.15	117.98	111.28
1	h2	76	GLU	N-CA-C	6.15	118.77	111.33
1	hf	89	GLY	CA-C-N	6.15	126.11	120.03
1	hf	89	GLY	C-N-CA	6.15	126.11	120.03
1	1I	226	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	hg	24	VAL	CA-C-N	6.15	128.43	120.44
1	hg	24	VAL	C-N-CA	6.15	128.43	120.44
1	hm	185	MET	O-C-N	-6.15	115.60	122.12
1	hU	102	SER	N-CA-C	6.15	118.06	111.36
1	hX	132	ARG	CA-C-N	6.15	128.80	120.38
1	hX	132	ARG	C-N-CA	6.15	128.80	120.38
1	ij	163	ASP	CA-CB-CG	-6.15	106.45	112.60
1	iw	190	LEU	O-C-N	-6.15	114.66	122.34
1	iz	27	VAL	N-CA-C	6.15	116.89	110.62
1	iC	62	HIS	O-C-N	-6.15	114.41	122.59
1	iI	50	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	iT	80	TRP	CD2-CE2-CZ2	-6.15	116.25	122.40
1	iU	73	ILE	CB-CA-C	-6.15	103.84	112.14
1	j7	115	ILE	N-CA-CB	6.15	119.80	110.58
1	jo	199	LYS	N-CA-C	6.15	117.98	111.28
1	jA	34	PRO	CA-C-N	6.15	129.13	120.28
1	jA	34	PRO	C-N-CA	6.15	129.13	120.28
1	jL	122	PRO	N-CA-CB	6.15	109.36	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jN	172	LEU	CA-C-O	6.15	127.06	120.55
1	1Z	20	LEU	N-CA-CB	6.15	119.23	110.13
1	k4	101	GLY	CA-C-O	6.15	127.06	120.30
1	k8	100	ARG	CA-C-N	6.15	126.80	119.98
1	k8	100	ARG	C-N-CA	6.15	126.80	119.98
1	ka	85	PRO	N-CA-C	6.15	120.89	111.11
1	ka	143	ARG	CD-NE-CZ	-6.15	115.79	124.40
1	kh	162	ARG	CA-C-O	6.15	127.27	120.63
1	kh	185	MET	CG-SD-CE	-6.15	87.38	100.90
1	kn	12	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
1	kD	204	ALA	O-C-N	-6.15	115.03	122.22
1	kI	72	THR	O-C-N	-6.15	115.70	122.09
1	kQ	226	HIS	CA-CB-CG	-6.15	107.65	113.80
1	kS	164	TYR	CA-C-N	6.15	128.88	120.46
1	kS	164	TYR	C-N-CA	6.15	128.88	120.46
1	lb	96	MET	O-C-N	-6.15	116.17	123.06
1	27	178	SER	N-CA-CB	6.15	120.88	110.49
1	ln	197	ASP	O-C-N	-6.15	115.14	122.15
1	lp	144	MET	CA-C-O	-6.15	112.14	119.15
1	lA	186	THR	N-CA-C	6.15	117.65	111.07
1	2v	219	GLN	CA-C-N	6.15	131.51	122.10
1	2v	219	GLN	C-N-CA	6.15	131.51	122.10
1	2w	50	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	2G	197	ASP	CA-C-N	6.15	128.43	120.44
1	2G	197	ASP	C-N-CA	6.15	128.43	120.44
1	2I	207	PRO	N-CA-CB	-6.15	96.79	103.25
1	2R	120	HIS	ND1-CE1-NE2	6.15	114.55	108.40
1	2V	212	GLU	O-C-N	-6.15	115.60	122.12
1	2W	152	ASP	N-CA-C	6.15	120.78	113.16
1	3N	55	MET	CA-C-N	6.15	128.52	120.28
1	3N	55	MET	C-N-CA	6.15	128.52	120.28
1	42	167	ARG	N-CA-C	6.15	118.06	111.36
1	4z	210	THR	CA-C-O	6.15	129.06	121.81
1	4z	214	MET	O-C-N	-6.15	115.60	122.12
1	4A	87	HIS	CB-CG-CD2	-6.15	123.21	131.20
1	4K	20	LEU	O-C-N	-6.15	115.60	122.12
1	4N	74	ASN	CA-CB-CG	-6.15	106.45	112.60
1	4R	74	ASN	CA-CB-CG	6.15	118.75	112.60
1	4T	76	GLU	N-CA-C	6.15	118.06	111.36
1	4Z	113	GLU	N-CA-C	-6.15	104.50	111.14
1	59	39	MET	CA-C-N	6.15	128.43	120.44
1	59	39	MET	C-N-CA	6.15	128.43	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	1	PRO	CA-N-CD	-6.15	103.39	112.00
1	5D	146	SER	CA-C-O	-6.15	114.73	119.46
1	5I	214	MET	O-C-N	-6.15	115.60	122.12
1	5Y	53	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	5Z	134	ILE	O-C-N	-6.15	115.91	121.87
1	63	210	THR	CA-C-O	-6.15	114.93	121.88
1	64	184	TRP	CA-C-N	6.15	128.84	120.54
1	64	184	TRP	C-N-CA	6.15	128.84	120.54
1	6F	88	ALA	N-CA-C	-6.15	100.94	110.10
1	7j	180	GLU	CA-C-N	6.15	129.20	120.53
1	7j	180	GLU	C-N-CA	6.15	129.20	120.53
1	7I	185	MET	N-CA-CB	6.15	119.16	110.12
1	7P	62	HIS	ND1-CE1-NE2	6.15	114.55	108.40
1	7S	138	LEU	CA-C-O	6.15	127.03	120.70
1	7T	21	ASN	CA-C-N	6.15	128.43	120.44
1	7T	21	ASN	C-N-CA	6.15	128.43	120.44
1	7Z	88	ALA	N-CA-C	6.15	118.23	110.24
1	87	142	VAL	O-C-N	-6.15	115.50	121.83
1	8e	228	ALA	N-CA-CB	-6.15	101.03	110.44
1	8n	105	ALA	N-CA-C	6.15	120.48	112.92
1	8s	156	GLY	CA-C-O	-6.15	112.73	121.52
1	9i	50	GLN	N-CA-C	6.15	118.52	111.02
1	9t	73	ILE	O-C-N	-6.15	115.91	121.87
1	9u	63	GLN	N-CA-C	6.15	117.98	111.28
1	9N	105	ALA	N-CA-CB	-6.15	101.03	110.44
1	9W	143	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	a4	203	LYS	CA-C-N	6.15	129.65	120.31
1	a4	203	LYS	C-N-CA	6.15	129.65	120.31
1	a6	77	ALA	N-CA-C	6.15	117.65	111.07
1	ab	138	LEU	CA-C-O	6.15	127.27	120.63
1	af	190	LEU	CA-C-O	6.15	126.94	120.42
1	12	129	ILE	CA-C-N	6.15	128.52	120.28
1	12	129	ILE	C-N-CA	6.15	128.52	120.28
1	aV	29	GLU	CA-C-O	6.15	127.03	120.70
1	aW	39	MET	CA-C-O	6.15	127.07	120.55
1	b1	80	TRP	N-CA-C	6.15	117.98	111.28
1	bn	20	LEU	CA-C-N	6.15	129.02	120.29
1	bn	20	LEU	C-N-CA	6.15	129.02	120.29
1	bp	46	GLY	CA-C-N	6.15	130.59	120.94
1	bp	46	GLY	C-N-CA	6.15	130.59	120.94
1	br	167	ARG	NE-CZ-NH1	6.15	127.65	121.50
1	bu	70	LYS	N-CA-C	6.15	117.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bv	68	MET	O-C-N	-6.15	115.14	122.15
1	bI	103	ASP	CA-C-N	6.15	128.88	120.46
1	bI	103	ASP	C-N-CA	6.15	128.88	120.46
1	1a	160	PRO	N-CA-CB	6.15	108.78	103.31
1	bR	22	ALA	N-CA-C	6.15	117.98	111.28
1	bS	112	GLN	CA-C-N	6.15	128.43	120.44
1	bS	112	GLN	C-N-CA	6.15	128.43	120.44
1	c3	96	MET	CG-SD-CE	-6.15	87.38	100.90
1	c4	181	VAL	CA-C-N	6.15	129.02	120.29
1	c4	181	VAL	C-N-CA	6.15	129.02	120.29
1	cc	42	ALA	N-CA-C	6.15	118.95	111.82
1	cf	144	MET	CA-C-O	6.15	127.28	120.82
1	cz	188	THR	N-CA-CB	6.15	120.88	110.49
1	cJ	63	GLN	OE1-CD-NE2	-6.15	116.45	122.60
1	d1	130	TYR	N-CA-C	6.15	117.65	111.07
1	dc	162	ARG	N-CA-C	6.15	117.98	111.28
1	dH	37	ILE	N-CA-C	6.15	121.53	112.61
1	dP	138	LEU	CD1-CG-CD2	-6.15	97.28	110.80
1	dW	133	TRP	N-CA-CB	6.15	119.16	110.12
1	fV	50	GLN	N-CA-C	6.15	118.78	111.71
1	g5	75	GLU	N-CA-C	-6.15	104.13	111.69
1	b	164	TYR	CB-CG-CD1	-6.15	111.58	120.80
1	1	73	ILE	CA-CB-CG2	-6.15	100.05	110.50
1	v	179	GLN	CB-CA-C	-6.15	100.53	110.74
1	G	97	ARG	NE-CZ-NH2	-6.15	113.67	119.20
1	Q	172	LEU	N-CA-C	6.15	118.49	111.11
1	U	5	ASN	CA-C-O	-6.15	115.56	122.01
1	ho	66	MET	N-CA-CB	6.15	118.92	110.01
1	hD	135	ILE	N-CA-C	6.15	116.89	110.62
1	i3	42	ALA	N-CA-C	6.15	117.98	111.28
1	i6	27	VAL	CB-CA-C	6.15	122.18	112.16
1	j8	124	ILE	N-CA-C	-6.15	100.72	107.73
1	jj	82	ARG	NH1-CZ-NH2	-6.15	111.31	119.30
1	jq	75	GLU	N-CA-C	6.15	117.98	111.28
1	jJ	153	ILE	CA-C-N	6.15	133.28	121.54
1	jJ	153	ILE	C-N-CA	6.15	133.28	121.54
1	ke	74	ASN	CA-C-O	-6.15	113.99	120.63
1	kA	4	GLN	CA-CB-CG	6.15	126.39	114.10
1	kF	53	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	kV	194	ALA	CA-C-N	6.15	130.86	121.03
1	kV	194	ALA	C-N-CA	6.15	130.86	121.03
1	lc	100	ARG	NE-CZ-NH1	6.15	127.65	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lt	80	TRP	CD2-CE2-CZ2	-6.15	116.25	122.40
1	lu	79	GLU	N-CA-C	6.15	117.98	111.28
1	lM	5	ASN	CA-C-O	6.15	127.04	119.97
1	3c	173	ARG	O-C-N	6.15	128.40	122.07
1	42	44	SER	CA-C-N	6.15	129.49	120.82
1	42	44	SER	C-N-CA	6.15	129.49	120.82
1	4b	64	ALA	N-CA-C	6.15	117.98	111.28
1	5f	18	ARG	N-CA-CB	-6.15	101.10	110.01
1	5O	165	VAL	N-CA-CB	6.15	118.90	110.54
1	72	138	LEU	CA-C-O	6.15	127.48	120.90
1	7Y	41	SER	CA-C-N	6.15	129.13	120.28
1	7Y	41	SER	C-N-CA	6.15	129.13	120.28
1	7Z	178	SER	N-CA-C	6.15	118.95	110.35
1	8J	205	LEU	N-CA-C	6.15	117.65	111.07
1	8W	75	GLU	N-CA-C	6.15	117.98	111.28
1	9I	121	ASN	OD1-CG-ND2	-6.15	116.45	122.60
1	9V	135	ILE	N-CA-CB	6.15	118.15	110.47
1	aq	80	TRP	CB-CG-CD2	6.15	135.41	126.80
1	aw	84	HIS	CB-CG-CD2	-6.15	123.21	131.20
1	aK	103	ASP	CA-C-N	6.15	130.18	120.47
1	aK	103	ASP	C-N-CA	6.15	130.18	120.47
1	bn	172	LEU	CA-C-N	6.15	130.04	120.82
1	bn	172	LEU	C-N-CA	6.15	130.04	120.82
1	bu	165	VAL	CA-C-N	6.15	128.43	120.44
1	bu	165	VAL	C-N-CA	6.15	128.43	120.44
1	ck	149	SER	CA-C-N	6.15	128.30	120.56
1	ck	149	SER	C-N-CA	6.15	128.30	120.56
1	cn	172	LEU	CA-C-O	6.15	126.93	119.31
1	ct	221	VAL	N-CA-C	6.15	119.67	111.44
1	cu	164	TYR	CB-CA-C	6.15	120.53	110.88
1	cB	183	ASN	CA-CB-CG	-6.15	106.45	112.60
1	en	88	ALA	N-CA-C	6.15	120.51	112.89
1	eL	159	GLU	CA-C-O	-6.15	113.61	120.25
1	eW	92	GLU	N-CA-C	6.15	118.38	109.84
1	fi	134	ILE	N-CA-C	6.15	116.93	110.72
1	fi	174	ALA	CA-C-N	6.15	129.49	120.82
1	fi	174	ALA	C-N-CA	6.15	129.49	120.82
1	fH	137	GLY	CA-C-N	6.15	128.52	120.28
1	fH	137	GLY	C-N-CA	6.15	128.52	120.28
1	g4	18	ARG	CA-C-N	6.15	128.43	120.44
1	g4	18	ARG	C-N-CA	6.15	128.43	120.44
1	e	180	GLU	N-CA-C	-6.15	104.58	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	215	MET	CA-C-N	6.15	128.51	120.28
1	1	215	MET	C-N-CA	6.15	128.51	120.28
1	gf	132	ARG	N-CA-C	-6.14	104.66	111.36
1	go	60	GLY	CA-C-N	6.14	129.73	121.01
1	go	60	GLY	C-N-CA	6.14	129.73	121.01
1	gq	161	PHE	CA-C-N	6.14	133.28	121.54
1	gq	161	PHE	C-N-CA	6.14	133.28	121.54
1	gE	25	LYS	N-CA-C	6.14	118.78	111.71
1	1F	146	SER	O-C-N	-6.14	113.54	121.10
1	gO	182	LYS	N-CA-C	6.14	117.98	111.28
1	1G	51	ASP	CB-CA-C	-6.14	101.19	110.90
1	hf	115	ILE	N-CA-CB	6.14	117.33	110.51
1	hB	120	HIS	CB-CG-CD2	6.14	139.19	131.20
1	hE	179	GLN	CA-C-N	6.14	128.51	120.28
1	hE	179	GLN	C-N-CA	6.14	128.51	120.28
1	hM	22	ALA	CA-C-N	6.14	128.51	120.28
1	hM	22	ALA	C-N-CA	6.14	128.51	120.28
1	i4	54	THR	N-CA-C	-6.14	104.50	111.14
1	ij	48	THR	CA-C-N	6.14	127.52	119.84
1	ij	48	THR	C-N-CA	6.14	127.52	119.84
1	iF	107	THR	CA-CB-OG1	6.14	118.82	109.60
1	iQ	185	MET	CG-SD-CE	-6.14	87.38	100.90
1	iV	149	SER	CA-C-N	6.14	130.18	120.47
1	iV	149	SER	C-N-CA	6.14	130.18	120.47
1	iY	95	GLN	CB-CG-CD	-6.14	102.16	112.60
1	j2	135	ILE	O-C-N	6.14	127.83	121.87
1	j9	53	ASN	CA-C-N	6.14	128.51	120.28
1	j9	53	ASN	C-N-CA	6.14	128.51	120.28
1	jl	77	ALA	CA-C-O	6.14	127.06	120.24
1	jv	42	ALA	N-CA-C	6.14	117.67	110.97
1	jv	176	GLN	CA-C-N	6.14	129.85	120.82
1	jv	176	GLN	C-N-CA	6.14	129.85	120.82
1	jy	48	THR	CA-C-N	6.14	126.04	119.28
1	jy	48	THR	C-N-CA	6.14	126.04	119.28
1	jE	63	GLN	N-CA-C	6.14	118.48	111.11
1	jF	100	ARG	NH1-CZ-NH2	-6.14	111.31	119.30
1	jL	57	ASN	OD1-CG-ND2	-6.14	116.45	122.60
1	k3	216	THR	N-CA-CB	6.14	118.98	110.07
1	k5	48	THR	CB-CA-C	6.14	118.31	108.91
1	kG	184	TRP	CA-C-N	6.14	128.51	120.28
1	kG	184	TRP	C-N-CA	6.14	128.51	120.28
1	24	82	ARG	N-CA-C	6.14	117.64	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	26	48	THR	N-CA-C	-6.14	101.17	110.39
1	la	105	ALA	N-CA-C	6.14	120.46	113.15
1	27	219	GLN	OE1-CD-NE2	-6.14	116.45	122.60
1	lC	187	GLU	CA-C-N	6.14	128.43	120.44
1	lC	187	GLU	C-N-CA	6.14	128.43	120.44
1	2q	9	GLN	OE1-CD-NE2	-6.14	116.45	122.60
1	3c	50	GLN	N-CA-C	6.14	117.98	111.28
1	3l	65	ALA	O-C-N	-6.14	115.61	122.12
1	3r	143	ARG	NH1-CZ-NH2	-6.14	111.31	119.30
1	3I	43	LEU	O-C-N	-6.14	115.61	122.12
1	3O	162	ARG	N-CA-C	6.14	118.95	111.82
1	48	163	ASP	N-CA-C	6.14	117.78	111.14
1	4w	185	MET	N-CA-C	6.14	117.98	111.28
1	4C	107	THR	N-CA-C	-6.14	104.85	112.90
1	4D	41	SER	CB-CA-C	-6.14	101.23	110.88
1	4F	191	VAL	CA-C-O	6.14	126.89	120.25
1	4Q	126	VAL	CA-C-N	6.14	126.91	120.03
1	4Q	126	VAL	C-N-CA	6.14	126.91	120.03
1	4S	70	LYS	N-CA-CB	6.14	119.15	110.12
1	52	14	ALA	CA-C-N	6.14	128.80	120.63
1	52	14	ALA	C-N-CA	6.14	128.80	120.63
1	5f	203	LYS	O-C-N	-6.14	115.74	122.07
1	5k	71	GLU	CA-C-N	6.14	128.51	120.28
1	5k	71	GLU	C-N-CA	6.14	128.51	120.28
1	5u	81	ASP	O-C-N	-6.14	114.71	122.27
1	5N	210	THR	N-CA-CB	6.14	118.80	110.38
1	6s	34	PRO	CA-C-N	6.14	132.42	120.99
1	6s	34	PRO	C-N-CA	6.14	132.42	120.99
1	6Q	28	GLU	N-CA-C	6.14	117.98	111.28
1	6W	55	MET	CA-C-N	6.14	128.80	120.44
1	6W	55	MET	C-N-CA	6.14	128.80	120.44
1	6X	199	LYS	CA-C-N	6.14	129.01	120.29
1	6X	199	LYS	C-N-CA	6.14	129.01	120.29
1	7d	87	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	7s	135	ILE	O-C-N	-6.14	115.80	121.94
1	7s	194	ALA	CB-CA-C	6.14	120.77	109.46
1	7K	78	ALA	CA-C-N	6.14	128.80	120.38
1	7K	78	ALA	C-N-CA	6.14	128.80	120.38
1	8h	16	SER	N-CA-C	6.14	117.40	109.72
1	8q	83	LEU	O-C-N	-6.14	114.20	122.43
1	8z	97	ARG	O-C-N	-6.14	115.61	122.86
1	8A	219	GLN	CA-C-N	6.14	126.76	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8A	219	GLN	C-N-CA	6.14	126.76	120.00
1	8T	73	ILE	N-CA-C	6.14	116.32	110.42
1	92	96	MET	O-C-N	-6.14	115.52	123.32
1	96	167	ARG	N-CA-CB	6.14	119.15	110.12
1	9a	211	LEU	CB-CA-C	6.14	121.30	110.85
1	9t	37	ILE	CA-C-N	6.14	126.33	119.32
1	9t	37	ILE	C-N-CA	6.14	126.33	119.32
1	9D	226	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	9H	98	GLU	O-C-N	-6.14	115.47	121.18
1	9O	85	PRO	CB-CA-C	6.14	121.70	111.56
1	9W	66	MET	O-C-N	-6.14	115.61	122.12
1	a4	52	LEU	N-CA-C	6.14	117.64	111.07
1	aq	175	GLU	N-CA-C	6.14	118.71	110.35
1	aD	122	PRO	CA-C-N	6.14	126.50	119.93
1	aD	122	PRO	C-N-CA	6.14	126.50	119.93
1	aG	110	THR	CA-C-N	6.14	128.80	120.38
1	aG	110	THR	C-N-CA	6.14	128.80	120.38
1	aH	120	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	aP	74	ASN	N-CA-CB	6.14	119.81	110.28
1	aR	167	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	aS	120	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	bb	152	ASP	CA-CB-CG	-6.14	106.46	112.60
1	bg	81	ASP	O-C-N	6.14	128.63	122.12
1	bi	74	ASN	CA-CB-CG	-6.14	106.45	112.60
1	bs	162	ARG	CA-C-O	6.14	127.06	120.55
1	bD	87	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	1d	219	GLN	CA-C-O	6.14	127.71	120.58
1	cg	120	HIS	CB-CG-CD2	-6.14	123.21	131.20
1	d6	139	ASN	N-CA-C	6.14	117.98	111.28
1	dn	186	THR	OG1-CB-CG2	-6.14	97.01	109.30
1	dI	36	VAL	CA-C-N	6.14	125.25	120.33
1	dI	36	VAL	C-N-CA	6.14	125.25	120.33
1	e7	150	ILE	O-C-N	-6.14	115.67	121.87
1	ea	21	ASN	CB-CA-C	-6.14	100.40	110.85
1	ef	90	PRO	CA-C-N	6.14	130.40	121.80
1	ef	90	PRO	C-N-CA	6.14	130.40	121.80
1	ej	84	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	en	178	SER	N-CA-CB	6.14	119.00	109.97
1	ep	200	THR	N-CA-C	6.14	117.98	111.28
1	es	201	ILE	CB-CA-C	-6.14	104.10	111.97
1	eH	178	SER	N-CA-C	6.14	118.70	110.35
1	fc	20	LEU	CA-C-N	6.14	128.43	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fc	20	LEU	C-N-CA	6.14	128.43	120.44
1	fg	87	HIS	CA-CB-CG	6.14	119.94	113.80
1	fj	82	ARG	CG-CD-NE	-6.14	98.48	112.00
1	fI	162	ARG	NH1-CZ-NH2	-6.14	111.31	119.30
1	fR	52	LEU	CA-C-O	-6.14	114.37	120.82
1	fV	184	TRP	N-CA-C	6.14	117.98	111.28
1	m	73	ILE	N-CA-C	6.14	116.89	110.62
1	2	106	GLY	CA-C-O	6.14	125.83	119.01
1	C	184	TRP	CA-C-N	6.14	128.80	120.44
1	C	184	TRP	C-N-CA	6.14	128.80	120.44
1	D	16	SER	N-CA-C	6.14	117.63	109.83
1	I	143	ARG	N-CA-C	6.14	118.95	111.82
1	W	20	LEU	N-CA-CB	6.14	119.15	110.12
1	gG	35	GLU	N-CA-CB	-6.14	101.04	110.44
1	gI	63	GLN	O-C-N	-6.14	115.61	122.12
1	gK	154	ARG	CA-C-O	6.14	128.05	121.11
1	gS	163	ASP	CA-CB-CG	-6.14	106.46	112.60
1	gU	50	GLN	CA-C-N	6.14	128.79	120.44
1	gU	50	GLN	C-N-CA	6.14	128.79	120.44
1	gU	106	GLY	CA-C-O	6.14	127.56	119.58
1	1G	102	SER	N-CA-CB	6.14	119.15	110.12
1	gY	164	TYR	CA-C-N	6.14	128.30	120.56
1	gY	164	TYR	C-N-CA	6.14	128.30	120.56
1	i3	67	GLN	CB-CG-CD	6.14	123.04	112.60
1	1N	74	ASN	O-C-N	-6.14	114.72	122.27
1	iv	72	THR	CB-CA-C	-6.14	100.41	110.85
1	iB	184	TRP	O-C-N	-6.14	115.03	122.22
1	1R	53	ASN	OD1-CG-ND2	-6.14	116.46	122.60
1	iJ	76	GLU	N-CA-CB	6.14	119.80	110.28
1	iN	146	SER	O-C-N	-6.14	115.31	121.27
1	j3	109	SER	O-C-N	-6.14	115.90	123.33
1	j3	162	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	jq	89	GLY	CA-C-N	6.14	127.52	119.84
1	jq	89	GLY	C-N-CA	6.14	127.52	119.84
1	jy	23	TRP	O-C-N	-6.14	115.64	122.03
1	jE	55	MET	CA-C-O	6.14	127.06	120.55
1	jM	91	ILE	CB-CA-C	6.14	118.05	111.35
1	jN	80	TRP	O-C-N	6.14	128.63	122.12
1	jU	170	LYS	N-CA-CB	-6.14	101.10	110.01
1	kL	186	THR	OG1-CB-CG2	-6.14	97.01	109.30
1	l7	174	ALA	N-CA-CB	-6.14	101.50	110.53
1	la	167	ARG	CA-C-N	6.14	128.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	la	167	ARG	C-N-CA	6.14	128.79	120.44
1	ls	155	GLN	O-C-N	-6.14	116.22	123.22
1	lB	111	LEU	CA-C-O	-6.14	114.37	120.82
1	2b	133	TRP	NE1-CE2-CD2	6.14	115.39	107.40
1	2i	228	ALA	N-CA-C	6.14	118.23	110.24
1	2o	52	LEU	CA-C-N	6.14	128.42	120.44
1	2o	52	LEU	C-N-CA	6.14	128.42	120.44
1	2o	120	HIS	CB-CG-CD2	-6.14	123.22	131.20
1	2r	194	ALA	CA-C-N	6.14	130.02	120.68
1	2r	194	ALA	C-N-CA	6.14	130.02	120.68
1	2t	167	ARG	CA-C-N	6.14	128.43	120.44
1	2t	167	ARG	C-N-CA	6.14	128.43	120.44
1	2I	16	SER	N-CA-C	6.14	117.55	109.93
1	33	16	SER	CA-C-O	6.14	125.23	119.76
1	40	175	GLU	N-CA-C	6.14	119.61	110.52
1	40	203	LYS	N-CA-C	6.14	117.98	111.28
1	47	63	GLN	CA-C-O	-6.14	114.04	120.55
1	4n	144	MET	O-C-N	-6.14	115.03	122.22
1	4p	145	TYR	CA-C-N	6.14	128.90	120.67
1	4p	145	TYR	C-N-CA	6.14	128.90	120.67
1	4B	140	LYS	CA-C-N	6.14	128.88	120.46
1	4B	140	LYS	C-N-CA	6.14	128.88	120.46
1	4P	50	GLN	N-CA-C	6.14	119.61	111.75
1	5q	57	ASN	OD1-CG-ND2	-6.14	116.46	122.60
1	5A	100	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	5P	23	TRP	CB-CG-CD1	-6.14	117.69	126.90
1	60	2	ILE	O-C-N	-6.14	116.58	123.03
1	62	100	ARG	CA-C-N	6.14	126.91	120.03
1	62	100	ARG	C-N-CA	6.14	126.91	120.03
1	63	152	ASP	N-CA-C	6.14	117.98	111.28
1	7n	167	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	7r	192	GLN	OE1-CD-NE2	-6.14	116.46	122.60
1	7x	197	ASP	CA-CB-CG	-6.14	106.46	112.60
1	7D	199	LYS	CA-C-O	6.14	127.47	120.90
1	7H	50	GLN	N-CA-C	6.14	118.48	111.11
1	85	103	ASP	CA-CB-CG	-6.14	106.46	112.60
1	8c	158	LYS	CA-C-N	6.14	131.12	121.17
1	8c	158	LYS	C-N-CA	6.14	131.12	121.17
1	8i	154	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	8n	168	PHE	CB-CA-C	6.14	120.64	110.81
1	8r	88	ALA	CA-C-N	6.14	131.51	121.87
1	8r	88	ALA	C-N-CA	6.14	131.51	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8D	150	ILE	CA-C-O	6.14	127.10	120.47
1	9x	16	SER	N-CA-CB	6.14	120.73	109.73
1	9z	44	SER	CA-C-N	6.14	128.51	120.28
1	9z	44	SER	C-N-CA	6.14	128.51	120.28
1	Y	174	ALA	CA-C-O	6.14	126.93	119.31
1	9V	96	MET	N-CA-C	6.14	117.97	110.41
1	9X	83	LEU	O-C-N	-6.14	115.61	122.12
1	a7	214	MET	O-C-N	-6.14	115.03	122.22
1	a9	141	ILE	N-CA-C	6.14	116.32	110.42
1	12	77	ALA	N-CA-C	-6.14	104.50	111.07
1	bb	9	GLN	CA-C-O	-6.14	113.50	120.32
1	bc	132	ARG	N-CA-C	6.14	117.98	111.28
1	bu	21	ASN	CA-C-N	6.14	128.43	120.44
1	bu	21	ASN	C-N-CA	6.14	128.43	120.44
1	bB	191	VAL	CA-C-N	6.14	128.79	120.38
1	bB	191	VAL	C-N-CA	6.14	128.79	120.38
1	bZ	132	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	c5	82	ARG	CA-C-N	6.14	128.51	120.28
1	c5	82	ARG	C-N-CA	6.14	128.51	120.28
1	c7	215	MET	N-CA-C	6.14	118.77	111.71
1	ca	29	GLU	N-CA-C	6.14	117.97	111.28
1	cE	16	SER	N-CA-C	-6.14	100.71	109.62
1	1g	89	GLY	CA-C-O	-6.14	112.74	121.52
1	dy	55	MET	CG-SD-CE	-6.14	87.39	100.90
1	dC	201	ILE	N-CA-CB	6.14	117.74	110.55
1	dH	153	ILE	N-CA-C	6.14	118.47	109.63
1	dV	169	TYR	O-C-N	-6.14	114.71	122.27
1	dY	100	ARG	NH1-CZ-NH2	-6.14	111.32	119.30
1	e1	171	THR	N-CA-CB	6.14	119.16	109.82
1	e5	148	THR	N-CA-C	-6.14	99.05	108.76
1	e5	181	VAL	CA-C-O	-6.14	114.23	121.05
1	ed	57	ASN	CA-CB-CG	-6.14	106.46	112.60
1	es	41	SER	CA-C-N	6.14	128.43	120.44
1	es	41	SER	C-N-CA	6.14	128.43	120.44
1	eu	1	PRO	CB-CA-C	6.14	121.77	110.10
1	1r	64	ALA	CA-C-N	6.14	128.43	120.44
1	1r	64	ALA	C-N-CA	6.14	128.43	120.44
1	1u	101	GLY	CA-C-N	6.14	129.01	120.29
1	1u	101	GLY	C-N-CA	6.14	129.01	120.29
1	fK	157	PRO	CB-CA-C	6.14	120.65	111.68
1	fP	60	GLY	CA-C-N	6.14	127.47	120.53
1	fP	60	GLY	C-N-CA	6.14	127.47	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	12	HIS	CA-C-N	6.14	131.20	122.72
1	fR	12	HIS	C-N-CA	6.14	131.20	122.72
1	g2	207	PRO	N-CA-C	-6.14	106.47	114.03
1	g4	74	ASN	CA-CB-CG	6.14	118.74	112.60
1	u	133	TRP	CD2-CE2-CZ2	-6.14	116.26	122.40
1	F	205	LEU	CA-C-O	6.14	125.90	119.14
1	4	34	PRO	CA-C-N	6.14	130.98	120.72
1	4	34	PRO	C-N-CA	6.14	130.98	120.72
1	O	185	MET	CA-C-O	6.14	127.06	120.55
1	5	171	THR	CA-C-N	6.14	128.51	120.28
1	5	171	THR	C-N-CA	6.14	128.51	120.28
1	9	25	LYS	N-CA-C	6.14	118.48	111.11
1	gm	174	ALA	N-CA-C	6.14	118.05	111.36
1	1H	48	THR	CA-C-N	6.14	127.52	119.84
1	1H	48	THR	C-N-CA	6.14	127.52	119.84
1	hr	167	ARG	O-C-N	-6.14	115.75	122.07
1	hx	32	PHE	O-C-N	-6.14	114.34	122.20
1	hG	56	LEU	N-CA-C	-6.14	104.59	111.28
1	hS	100	ARG	N-CA-CB	-6.14	101.39	110.85
1	hW	92	GLU	O-C-N	-6.14	114.26	121.32
1	iq	186	THR	O-C-N	-6.14	115.15	122.15
1	ix	54	THR	N-CA-C	6.14	118.77	111.71
1	j0	175	GLU	O-C-N	6.14	130.16	123.10
1	jm	52	LEU	N-CA-C	6.14	117.97	111.28
1	jq	154	ARG	N-CA-CB	-6.14	101.00	111.69
1	1Y	124	ILE	N-CA-CB	6.14	119.81	111.21
1	jQ	32	PHE	CA-C-N	6.14	130.01	120.68
1	jQ	32	PHE	C-N-CA	6.14	130.01	120.68
1	k5	67	GLN	N-CA-C	6.14	118.48	111.11
1	l3	190	LEU	CA-C-N	6.14	128.87	120.46
1	l3	190	LEU	C-N-CA	6.14	128.87	120.46
1	lz	223	GLY	CA-C-O	-6.14	112.74	121.52
1	4w	190	LEU	N-CA-C	6.14	118.05	111.36
1	4y	56	LEU	O-C-N	-6.14	114.72	122.27
1	4Q	28	GLU	CA-C-O	6.14	127.06	120.55
1	5v	125	PRO	CA-C-N	6.14	129.19	120.53
1	5v	125	PRO	C-N-CA	6.14	129.19	120.53
1	5w	193	ASN	CA-C-O	6.14	126.75	119.56
1	61	143	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	63	209	ALA	N-CA-C	6.14	119.25	110.10
1	6k	71	GLU	N-CA-C	-6.14	104.86	112.90
1	6w	70	LYS	N-CA-C	6.14	117.97	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	110	THR	O-C-N	-6.14	115.85	122.85
1	8b	63	GLN	N-CA-C	6.14	119.97	112.23
1	8w	24	VAL	O-C-N	-6.14	115.91	121.87
1	8J	22	ALA	N-CA-C	6.14	118.76	111.33
1	9v	89	GLY	CA-C-N	6.14	127.52	119.84
1	9v	89	GLY	C-N-CA	6.14	127.52	119.84
1	9A	68	MET	CA-C-N	6.14	128.42	120.44
1	9A	68	MET	C-N-CA	6.14	128.42	120.44
1	9L	153	ILE	CA-CB-CG1	6.14	120.84	110.40
1	b4	15	ILE	CA-C-N	6.14	129.85	121.74
1	b4	15	ILE	C-N-CA	6.14	129.85	121.74
1	b9	47	ALA	O-C-N	-6.14	115.76	123.01
1	bl	52	LEU	CA-C-N	-6.14	110.24	120.68
1	bl	52	LEU	C-N-CA	-6.14	110.24	120.68
1	bD	37	ILE	CA-C-N	6.14	127.52	119.84
1	bD	37	ILE	C-N-CA	6.14	127.52	119.84
1	cT	143	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	d2	169	TYR	N-CA-C	6.14	118.05	111.36
1	dv	98	GLU	CA-C-N	6.14	126.35	119.90
1	dv	98	GLU	C-N-CA	6.14	126.35	119.90
1	dT	22	ALA	N-CA-C	6.14	117.64	111.07
1	dT	77	ALA	CA-C-O	6.14	127.06	120.55
1	f2	76	GLU	N-CA-C	6.14	117.97	111.28
1	fp	53	ASN	CA-CB-CG	-6.14	106.46	112.60
1	fN	156	GLY	CA-C-O	-6.14	115.17	121.62
1	f	136	LEU	CA-C-N	6.14	126.80	119.98
1	f	136	LEU	C-N-CA	6.14	126.80	119.98
1	1C	39	MET	CA-C-N	6.14	128.51	120.28
1	1C	39	MET	C-N-CA	6.14	128.51	120.28
1	gB	76	GLU	N-CA-C	6.14	118.94	111.82
1	1E	53	ASN	CA-CB-CG	-6.14	106.46	112.60
1	gN	103	ASP	CA-CB-CG	-6.14	106.46	112.60
1	gP	124	ILE	CA-C-O	6.14	122.77	119.15
1	hy	134	ILE	O-C-N	-6.14	115.89	121.91
1	hy	226	HIS	CA-CB-CG	6.14	119.94	113.80
1	1M	95	GLN	CG-CD-NE2	6.14	125.61	116.40
1	i1	49	PRO	N-CA-CB	-6.14	96.80	103.25
1	1N	10	MET	CG-SD-CE	-6.14	87.39	100.90
1	1O	103	ASP	CA-CB-CG	-6.14	106.46	112.60
1	ih	40	PHE	O-C-N	6.14	128.39	122.07
1	iE	180	GLU	N-CA-C	6.14	117.97	111.28
1	jm	138	LEU	N-CA-C	6.14	118.05	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jn	50	GLN	OE1-CD-NE2	-6.14	116.46	122.60
1	js	78	ALA	N-CA-CB	-6.14	101.09	110.12
1	jv	200	THR	CA-C-N	6.14	128.42	120.56
1	jv	200	THR	C-N-CA	6.14	128.42	120.56
1	jA	212	GLU	CA-C-N	6.14	128.51	120.28
1	jA	212	GLU	C-N-CA	6.14	128.51	120.28
1	1X	210	THR	N-CA-C	6.14	118.70	110.35
1	jP	181	VAL	O-C-N	6.14	127.83	121.87
1	jZ	115	ILE	N-CA-C	-6.14	104.36	110.62
1	k8	13	GLN	CB-CG-CD	6.14	123.04	112.60
1	kb	143	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	21	142	VAL	N-CA-C	6.14	116.31	110.42
1	ks	22	ALA	N-CA-C	6.14	117.97	111.28
1	kv	33	SER	CB-CA-C	-6.14	103.27	110.76
1	ky	79	GLU	O-C-N	-6.14	115.61	122.12
1	kN	5	ASN	CA-CB-CG	6.14	118.74	112.60
1	kN	115	ILE	O-C-N	-6.14	115.89	121.91
1	lg	52	LEU	CA-C-O	-6.14	113.91	120.42
1	lh	211	LEU	CA-C-N	6.14	128.83	120.54
1	lh	211	LEU	C-N-CA	6.14	128.83	120.54
1	lv	47	ALA	N-CA-C	6.14	119.25	110.10
1	ly	144	MET	N-CA-C	6.14	118.05	111.36
1	lz	141	ILE	CB-CA-C	-6.14	103.85	112.14
1	lB	88	ALA	CA-C-N	6.14	131.51	121.87
1	lB	88	ALA	C-N-CA	6.14	131.51	121.87
1	29	226	HIS	N-CA-C	-6.14	104.96	112.88
1	lK	84	HIS	CA-C-N	6.14	126.16	119.90
1	lK	84	HIS	C-N-CA	6.14	126.16	119.90
1	lL	184	TRP	N-CA-C	6.14	117.77	111.14
1	2u	217	ALA	CA-C-N	6.14	131.31	122.35
1	2u	217	ALA	C-N-CA	6.14	131.31	122.35
1	2y	104	ILE	CA-CB-CG2	6.14	120.94	110.50
1	2Q	126	VAL	CA-C-N	6.14	126.63	119.94
1	2Q	126	VAL	C-N-CA	6.14	126.63	119.94
1	2Z	13	GLN	CA-C-N	6.14	129.83	121.05
1	2Z	13	GLN	C-N-CA	6.14	129.83	121.05
1	2Z	24	VAL	CA-C-N	6.14	128.51	120.28
1	2Z	24	VAL	C-N-CA	6.14	128.51	120.28
1	3k	65	ALA	N-CA-C	6.14	117.64	111.07
1	3l	120	HIS	CA-CB-CG	6.14	119.94	113.80
1	3F	75	GLU	N-CA-C	6.14	118.76	111.33
1	3V	84	HIS	CE1-NE2-CD2	-6.14	102.86	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4M	173	ARG	N-CA-C	-6.14	104.50	112.23
1	4N	134	ILE	N-CA-C	6.14	116.31	110.42
1	4Z	9	GLN	N-CA-CB	6.14	119.10	109.83
1	5k	229	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	5q	129	ILE	O-C-N	6.14	127.93	121.91
1	5B	50	GLN	OE1-CD-NE2	-6.14	116.46	122.60
1	5U	67	GLN	OE1-CD-NE2	6.14	128.74	122.60
1	6c	181	VAL	O-C-N	-6.14	115.89	121.91
1	6n	100	ARG	CA-C-N	6.14	126.93	119.99
1	6n	100	ARG	C-N-CA	6.14	126.93	119.99
1	6u	73	ILE	O-C-N	6.14	128.15	121.83
1	6K	24	VAL	N-CA-CB	6.14	117.73	110.55
1	6L	162	ARG	N-CA-C	6.14	117.97	111.28
1	6L	219	GLN	CA-C-O	-6.14	114.87	121.56
1	6R	151	LEU	N-CA-C	-6.14	105.95	113.50
1	6S	84	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	7d	143	ARG	N-CA-C	6.14	117.97	111.28
1	7o	24	VAL	N-CA-C	6.14	116.81	110.36
1	7L	18	ARG	CA-C-N	6.14	128.79	120.44
1	7L	18	ARG	C-N-CA	6.14	128.79	120.44
1	7M	54	THR	CA-C-N	6.14	128.42	120.44
1	7M	54	THR	C-N-CA	6.14	128.42	120.44
1	86	69	LEU	N-CA-C	6.14	117.97	111.28
1	8c	194	ALA	N-CA-C	6.14	118.64	110.53
1	8e	153	ILE	N-CA-CB	6.14	118.03	111.46
1	8v	12	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	8z	140	LYS	N-CA-C	6.14	117.97	111.28
1	8D	4	GLN	CA-C-O	6.14	128.59	121.28
1	8T	159	GLU	CA-C-O	-6.14	114.30	119.76
1	92	215	MET	O-C-N	-6.14	115.61	122.12
1	99	197	ASP	N-CA-C	-6.14	105.28	112.89
1	9y	81	ASP	N-CA-C	6.14	117.97	111.28
1	9O	146	SER	O-C-N	-6.14	115.97	121.31
1	Y	218	CYS	N-CA-C	6.14	120.34	111.56
1	a1	48	THR	CA-C-N	6.14	126.32	119.32
1	a1	48	THR	C-N-CA	6.14	126.32	119.32
1	10	143	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	av	161	PHE	O-C-N	-6.14	115.61	122.12
1	az	147	PRO	O-C-N	-6.14	114.35	122.64
1	b1	82	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	br	115	ILE	CA-C-N	6.14	127.81	120.14
1	br	115	ILE	C-N-CA	6.14	127.81	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bG	12	HIS	CA-C-O	6.14	128.25	121.56
1	c3	153	ILE	CA-C-O	-6.14	114.66	121.23
1	cf	87	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	cj	172	LEU	CA-C-N	6.14	128.51	120.28
1	cj	172	LEU	C-N-CA	6.14	128.51	120.28
1	1e	35	GLU	N-CA-C	-6.14	105.37	112.92
1	cq	19	THR	O-C-N	-6.14	115.61	122.12
1	cs	19	THR	CA-C-N	6.14	128.42	120.44
1	cs	19	THR	C-N-CA	6.14	128.42	120.44
1	cu	229	ARG	N-CA-C	-6.14	105.43	113.17
1	cx	84	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	cy	21	ASN	CA-CB-CG	6.14	118.74	112.60
1	cU	77	ALA	CA-C-N	6.14	128.51	120.28
1	cU	77	ALA	C-N-CA	6.14	128.51	120.28
1	db	202	LEU	CA-C-O	-6.14	114.04	120.55
1	dg	121	ASN	CA-C-O	-6.14	113.17	119.49
1	dl	58	THR	N-CA-CB	6.14	119.14	110.12
1	dU	89	GLY	CA-C-N	6.14	127.51	119.84
1	dU	89	GLY	C-N-CA	6.14	127.51	119.84
1	e7	122	PRO	CA-C-N	6.14	126.65	120.14
1	e7	122	PRO	C-N-CA	6.14	126.65	120.14
1	eD	143	ARG	N-CA-C	6.14	118.94	111.82
1	eX	182	LYS	N-CA-CB	6.14	118.87	109.91
1	1u	146	SER	N-CA-C	6.14	123.38	109.81
1	f8	28	GLU	N-CA-C	6.14	117.97	111.28
1	fu	94	GLY	N-CA-C	6.14	123.37	114.10
1	0	184	TRP	O-C-N	-6.14	115.15	122.15
1	d	136	LEU	CA-C-N	6.14	126.75	119.94
1	d	136	LEU	C-N-CA	6.14	126.75	119.94
1	p	12	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	z	121	ASN	O-C-N	-6.14	115.92	121.39
1	M	16	SER	N-CA-C	6.14	117.39	109.65
1	M	197	ASP	CA-CB-CG	6.14	118.74	112.60
1	W	66	MET	N-CA-C	6.14	118.05	111.36
1	gG	141	ILE	CA-C-N	6.14	128.87	120.46
1	gG	141	ILE	C-N-CA	6.14	128.87	120.46
1	1I	20	LEU	CA-C-N	6.14	128.42	120.44
1	1I	20	LEU	C-N-CA	6.14	128.42	120.44
1	ib	87	HIS	N-CA-C	6.14	118.70	110.35
1	it	150	ILE	O-C-N	-6.14	115.92	121.87
1	iN	2	ILE	N-CA-CB	6.14	118.39	111.21
1	j2	135	ILE	CA-C-O	-6.14	114.57	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	226	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	jw	120	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	jC	16	SER	CA-C-N	6.14	125.70	119.19
1	jC	16	SER	C-N-CA	6.14	125.70	119.19
1	jZ	134	ILE	O-C-N	-6.14	115.67	121.87
1	kE	221	VAL	O-C-N	-6.14	115.67	121.87
1	kU	105	ALA	O-C-N	-6.14	113.99	122.46
1	26	84	HIS	ND1-CE1-NE2	6.14	114.54	108.40
1	l8	35	GLU	CA-C-O	6.14	127.04	120.10
1	l9	180	GLU	N-CA-C	-6.14	104.67	111.36
1	lc	213	GLU	O-C-N	-6.14	115.15	122.15
1	27	201	ILE	N-CA-C	6.14	116.33	110.74
1	li	204	ALA	O-C-N	-6.14	114.05	122.46
1	lq	203	LYS	N-CA-C	6.14	117.97	111.28
1	ly	159	GLU	CA-C-N	6.14	126.15	119.89
1	ly	159	GLU	C-N-CA	6.14	126.15	119.89
1	2R	21	ASN	OD1-CG-ND2	-6.14	116.46	122.60
1	2X	143	ARG	CA-C-N	6.14	128.42	120.44
1	2X	143	ARG	C-N-CA	6.14	128.42	120.44
1	3a	37	ILE	CA-C-N	6.14	127.51	119.84
1	3a	37	ILE	C-N-CA	6.14	127.51	119.84
1	3X	75	GLU	O-C-N	-6.14	115.61	122.12
1	4F	63	GLN	N-CA-C	6.14	118.77	111.71
1	4M	73	ILE	O-C-N	-6.14	115.89	121.91
1	4M	107	THR	N-CA-C	-6.14	106.11	113.97
1	4P	68	MET	CA-C-O	6.14	127.06	120.55
1	58	176	GLN	N-CA-C	6.14	119.96	112.23
1	5A	74	ASN	CA-C-O	-6.14	113.33	120.20
1	5G	30	LYS	N-CA-C	-6.14	104.43	112.41
1	6I	89	GLY	CA-C-N	6.14	127.51	119.84
1	6I	89	GLY	C-N-CA	6.14	127.51	119.84
1	6W	30	LYS	CA-C-N	6.14	133.26	121.54
1	6W	30	LYS	C-N-CA	6.14	133.26	121.54
1	7P	21	ASN	CA-C-N	6.14	128.75	120.65
1	7P	21	ASN	C-N-CA	6.14	128.75	120.65
1	7T	89	GLY	CA-C-N	6.14	127.51	119.84
1	7T	89	GLY	C-N-CA	6.14	127.51	119.84
1	7Z	166	ASP	CA-CB-CG	6.14	118.74	112.60
1	8u	217	ALA	CA-C-N	6.14	131.58	122.74
1	8u	217	ALA	C-N-CA	6.14	131.58	122.74
1	8z	144	MET	CA-C-O	6.14	126.45	119.27
1	8E	75	GLU	CA-C-O	-6.14	114.38	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8O	126	VAL	N-CA-CB	6.14	117.73	110.55
1	9e	52	LEU	N-CA-C	6.14	117.97	111.28
1	9h	166	ASP	CA-CB-CG	6.14	118.74	112.60
1	9w	31	ALA	N-CA-C	6.14	120.61	109.32
1	an	170	LYS	CA-C-N	6.14	129.01	120.29
1	an	170	LYS	C-N-CA	6.14	129.01	120.29
1	bx	208	ALA	N-CA-C	6.14	120.72	113.23
1	ch	53	ASN	CA-CB-CG	-6.14	106.46	112.60
1	cy	150	ILE	O-C-N	-6.14	115.32	122.07
1	cz	173	ARG	NH1-CZ-NH2	-6.14	111.32	119.30
1	1j	53	ASN	CA-C-N	6.14	129.12	120.28
1	1j	53	ASN	C-N-CA	6.14	129.12	120.28
1	dF	136	LEU	N-CA-CB	-6.14	101.10	110.12
1	dH	25	LYS	O-C-N	-6.14	115.04	122.22
1	dT	150	ILE	N-CA-C	6.14	116.88	110.62
1	ec	110	THR	CA-C-N	6.14	128.50	120.28
1	ec	110	THR	C-N-CA	6.14	128.50	120.28
1	1y	87	HIS	CA-CB-CG	-6.14	107.66	113.80
1	H	200	THR	N-CA-CB	6.14	119.14	110.12
1	Q	87	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	X	105	ALA	CA-C-N	6.14	132.26	120.66
1	X	105	ALA	C-N-CA	6.14	132.26	120.66
1	gf	59	VAL	N-CA-C	6.14	116.97	109.30
1	gz	221	VAL	CB-CA-C	-6.14	103.59	111.20
1	gD	195	ASN	OD1-CG-ND2	-6.14	116.46	122.60
1	gX	8	GLY	N-CA-C	6.14	120.63	112.65
1	gX	159	GLU	N-CA-C	6.14	118.55	110.08
1	1I	82	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	hy	222	GLY	CA-C-N	6.14	131.50	121.87
1	hy	222	GLY	C-N-CA	6.14	131.50	121.87
1	hC	162	ARG	NE-CZ-NH2	6.14	124.72	119.20
1	hK	121	ASN	O-C-N	-6.14	114.09	121.02
1	1N	120	HIS	CA-CB-CG	6.14	119.94	113.80
1	i6	212	GLU	O-C-N	-6.14	114.72	122.27
1	i9	32	PHE	O-C-N	-6.14	116.07	123.13
1	if	82	ARG	NH1-CZ-NH2	-6.14	111.32	119.30
1	ja	190	LEU	N-CA-C	6.14	117.64	111.07
1	jf	162	ARG	CA-C-O	6.14	127.06	120.55
1	ji	87	HIS	CA-CB-CG	6.14	119.94	113.80
1	jl	68	MET	N-CA-C	6.14	118.77	111.71
1	1V	182	LYS	CA-CB-CG	6.14	126.37	114.10
1	jo	168	PHE	CA-C-N	6.14	128.42	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jo	168	PHE	C-N-CA	6.14	128.42	120.44
1	jy	62	HIS	CB-CG-CD2	-6.14	123.22	131.20
1	jy	87	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
1	jB	61	GLY	CA-C-N	6.14	131.53	122.82
1	jB	61	GLY	C-N-CA	6.14	131.53	122.82
1	jY	75	GLU	N-CA-C	6.14	117.97	111.28
1	k5	177	ALA	CA-C-N	6.14	131.24	120.87
1	k5	177	ALA	C-N-CA	6.14	131.24	120.87
1	kc	163	ASP	O-C-N	-6.14	115.62	122.12
1	kA	133	TRP	CB-CG-CD2	-6.14	118.21	126.80
1	kF	70	LYS	N-CA-C	6.14	117.97	111.28
1	kG	114	GLN	N-CA-C	6.14	117.97	111.28
1	kG	139	ASN	CA-C-N	6.14	128.42	120.44
1	kG	139	ASN	C-N-CA	6.14	128.42	120.44
1	kI	21	ASN	CA-C-O	-6.14	113.92	120.42
1	kP	112	GLN	CA-C-N	6.14	129.00	120.29
1	kP	112	GLN	C-N-CA	6.14	129.00	120.29
1	kU	124	ILE	CA-C-O	6.14	123.18	119.19
1	kX	54	THR	N-CA-C	6.14	117.97	111.28
1	lc	12	HIS	CB-CG-ND1	6.14	131.91	122.70
1	lk	31	ALA	N-CA-C	6.14	117.97	111.28
1	2c	86	VAL	N-CA-CB	-6.14	102.76	110.31
1	2E	195	ASN	CA-C-N	6.14	127.51	119.84
1	2E	195	ASN	C-N-CA	6.14	127.51	119.84
1	2L	22	ALA	O-C-N	-6.14	115.61	122.12
1	3e	66	MET	N-CA-C	6.14	117.64	111.07
1	3t	35	GLU	O-C-N	-6.14	115.20	122.20
1	3X	95	GLN	OE1-CD-NE2	-6.14	116.46	122.60
1	4c	121	ASN	CA-C-O	-6.14	113.66	119.55
1	4g	180	GLU	N-CA-C	6.14	118.77	111.71
1	4p	30	LYS	CB-CA-C	6.14	120.33	109.65
1	4q	195	ASN	O-C-N	-6.14	115.84	121.30
1	4u	48	THR	O-C-N	-6.14	114.66	121.53
1	4y	84	HIS	CA-CB-CG	-6.14	107.66	113.80
1	4F	211	LEU	N-CA-CB	6.14	119.27	110.06
1	4I	18	ARG	CA-C-N	6.14	128.50	120.28
1	4I	18	ARG	C-N-CA	6.14	128.50	120.28
1	4T	121	ASN	OD1-CG-ND2	-6.14	116.46	122.60
1	52	230	VAL	N-CA-CB	6.14	119.60	111.25
1	5d	170	LYS	CA-C-N	6.14	129.64	120.31
1	5d	170	LYS	C-N-CA	6.14	129.64	120.31
1	5C	142	VAL	N-CA-C	6.14	116.88	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5I	9	GLN	N-CA-CB	-6.14	101.41	110.49
1	5R	32	PHE	CA-CB-CG	-6.14	107.66	113.80
1	64	119	THR	CA-C-O	6.14	126.15	119.15
1	65	202	LEU	N-CA-C	6.14	118.76	111.33
1	6c	84	HIS	CA-C-N	6.14	126.16	119.90
1	6c	84	HIS	C-N-CA	6.14	126.16	119.90
1	6i	132	ARG	CD-NE-CZ	6.14	132.99	124.40
1	6p	54	THR	CA-C-O	6.14	127.06	120.55
1	6Y	134	ILE	CA-C-O	-6.14	114.24	121.05
1	7Z	149	SER	N-CA-C	6.14	123.87	110.80
1	8E	103	ASP	CA-CB-CG	-6.14	106.46	112.60
1	8J	168	PHE	CA-C-N	6.14	128.50	120.28
1	8J	168	PHE	C-N-CA	6.14	128.50	120.28
1	8R	74	ASN	CA-C-N	6.14	128.50	120.28
1	8R	74	ASN	C-N-CA	6.14	128.50	120.28
1	98	11	VAL	N-CA-CB	6.14	123.28	111.62
1	9j	156	GLY	O-C-N	-6.14	115.63	121.77
1	9z	145	TYR	CB-CG-CD2	-6.14	111.59	120.80
1	9A	92	GLU	CA-C-N	6.14	127.51	119.84
1	9A	92	GLU	C-N-CA	6.14	127.51	119.84
1	9B	211	LEU	CA-C-O	6.14	127.26	120.63
1	9D	22	ALA	CB-CA-C	6.14	120.63	110.81
1	9J	51	ASP	N-CA-C	6.14	118.05	111.36
1	9O	22	ALA	CA-C-N	6.14	128.98	120.63
1	9O	22	ALA	C-N-CA	6.14	128.98	120.63
1	9P	138	LEU	O-C-N	-6.14	115.04	122.22
1	am	95	GLN	CB-CA-C	-6.14	97.75	109.66
1	ap	102	SER	N-CA-C	6.14	117.97	111.28
1	ar	78	ALA	N-CA-C	6.14	117.97	111.28
1	ar	114	GLN	CA-C-O	6.14	127.47	120.90
1	aR	170	LYS	O-C-N	-6.14	115.15	122.15
1	aX	72	THR	O-C-N	-6.14	115.75	122.07
1	bc	148	THR	CA-CB-OG1	6.14	118.81	109.60
1	bh	18	ARG	N-CA-C	6.14	117.97	111.28
1	bo	215	MET	CG-SD-CE	-6.14	87.40	100.90
1	c6	118	MET	N-CA-C	6.14	120.03	112.54
1	c7	80	TRP	CA-C-N	6.14	128.78	120.44
1	c7	80	TRP	C-N-CA	6.14	128.78	120.44
1	ct	92	GLU	N-CA-C	6.14	118.37	109.84
1	cM	209	ALA	O-C-N	-6.14	115.62	122.86
1	cY	229	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	1l	183	ASN	CA-C-N	6.14	129.32	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	183	ASN	C-N-CA	6.14	129.32	120.79
1	dA	173	ARG	NE-CZ-NH1	6.14	127.64	121.50
1	dD	40	PHE	CA-C-N	6.14	128.50	120.28
1	dD	40	PHE	C-N-CA	6.14	128.50	120.28
1	e0	206	GLY	O-C-N	-6.14	115.63	121.77
1	e5	154	ARG	NH1-CZ-NH2	-6.14	111.32	119.30
1	e6	128	GLU	N-CA-C	6.14	118.05	111.36
1	ef	199	LYS	O-C-N	6.14	128.62	122.12
1	ey	15	ILE	CA-C-N	6.14	130.01	120.68
1	ey	15	ILE	C-N-CA	6.14	130.01	120.68
1	eT	180	GLU	N-CA-C	6.14	118.05	111.36
1	fx	75	GLU	O-C-N	-6.14	115.71	122.09
1	1z	99	PRO	N-CA-CB	-6.14	96.81	103.25
1	fQ	143	ARG	NH1-CZ-NH2	-6.14	111.32	119.30
1	fR	71	GLU	CA-C-N	6.14	128.42	120.44
1	fR	71	GLU	C-N-CA	6.14	128.42	120.44
1	fZ	209	ALA	CA-C-N	6.14	130.02	120.75
1	fZ	209	ALA	C-N-CA	6.14	130.02	120.75
1	g2	59	VAL	O-C-N	-6.14	116.09	122.66
1	m	163	ASP	N-CA-C	6.14	117.97	111.28
1	y	55	MET	CG-SD-CE	-6.14	87.40	100.90
1	A	39	MET	O-C-N	-6.14	115.62	122.12
1	7	46	GLY	CA-C-O	6.14	125.79	119.10
1	ga	171	THR	CA-C-O	-6.13	114.05	120.55
1	gr	89	GLY	O-C-N	-6.13	115.64	121.77
1	gA	50	GLN	CA-C-N	6.13	128.41	120.44
1	gA	50	GLN	C-N-CA	6.13	128.41	120.44
1	gY	143	ARG	NH1-CZ-NH2	-6.13	111.33	119.30
1	h0	170	LYS	CA-C-N	6.13	128.78	120.38
1	h0	170	LYS	C-N-CA	6.13	128.78	120.38
1	hd	199	LYS	N-CA-C	6.13	117.64	111.07
1	hq	45	GLU	CA-C-O	-6.13	113.93	120.92
1	hs	217	ALA	CA-C-N	6.13	134.09	123.91
1	hs	217	ALA	C-N-CA	6.13	134.09	123.91
1	hv	69	LEU	CA-C-N	6.13	128.50	120.28
1	hv	69	LEU	C-N-CA	6.13	128.50	120.28
1	hw	155	GLN	CA-C-O	6.13	127.70	120.58
1	hE	80	TRP	N-CA-C	6.13	117.97	111.28
1	hE	150	ILE	CA-C-O	6.13	127.14	120.57
1	hJ	23	TRP	N-CA-CB	-6.13	101.11	110.01
1	i0	63	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	i6	24	VAL	CA-C-O	6.13	127.35	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	82	ARG	NE-CZ-NH1	6.13	127.64	121.50
1	il	198	CYS	N-CA-C	6.13	117.97	111.28
1	it	202	LEU	N-CA-C	6.13	118.05	111.36
1	iA	25	LYS	CA-C-N	6.13	128.87	120.46
1	iA	25	LYS	C-N-CA	6.13	128.87	120.46
1	iT	219	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	iY	7	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	je	30	LYS	N-CA-CB	-6.13	101.22	110.73
1	jF	143	ARG	N-CA-C	6.13	117.66	110.97
1	1X	138	LEU	CA-C-N	6.13	129.63	120.31
1	1X	138	LEU	C-N-CA	6.13	129.63	120.31
1	k8	185	MET	O-C-N	-6.13	115.62	122.12
1	kc	16	SER	CA-C-O	-6.13	114.74	119.46
1	21	97	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	km	130	TYR	CA-C-N	6.13	128.50	120.28
1	km	130	TYR	C-N-CA	6.13	128.50	120.28
1	ks	83	LEU	N-CA-C	6.13	117.63	111.07
1	ky	153	ILE	CA-CB-CG1	6.13	120.83	110.40
1	l1	224	PRO	N-CA-C	6.13	121.26	111.26
1	lC	197	ASP	N-CA-CB	6.13	118.91	110.01
1	lR	195	ASN	CA-C-N	6.13	126.03	119.28
1	lR	195	ASN	C-N-CA	6.13	126.03	119.28
1	2d	102	SER	N-CA-C	6.13	118.76	111.71
1	2H	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	35	183	ASN	CA-CB-CG	-6.13	106.47	112.60
1	38	22	ALA	CA-C-N	6.13	128.41	120.44
1	38	22	ALA	C-N-CA	6.13	128.41	120.44
1	3d	113	GLU	CA-C-N	6.13	129.32	120.79
1	3d	113	GLU	C-N-CA	6.13	129.32	120.79
1	3H	164	TYR	O-C-N	6.13	128.39	122.07
1	3I	143	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	3O	184	TRP	O-C-N	-6.13	115.16	122.15
1	3R	48	THR	O-C-N	-6.13	114.66	121.53
1	46	183	ASN	CA-C-O	6.13	127.03	120.10
1	4l	191	VAL	CB-CA-C	6.13	118.81	111.20
1	4w	126	VAL	CA-C-N	-6.13	113.17	119.98
1	4w	126	VAL	C-N-CA	-6.13	113.17	119.98
1	4I	89	GLY	O-C-N	-6.13	115.64	121.77
1	52	189	LEU	N-CA-C	6.13	117.97	111.28
1	5p	62	HIS	N-CA-C	6.13	119.56	111.28
1	5t	23	TRP	CB-CG-CD2	6.13	135.39	126.80
1	5y	204	ALA	CA-C-N	6.13	129.00	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	204	ALA	C-N-CA	6.13	129.00	120.29
1	64	71	GLU	CA-C-N	6.13	128.50	120.28
1	64	71	GLU	C-N-CA	6.13	128.50	120.28
1	6v	123	PRO	N-CA-C	6.13	120.85	111.34
1	6B	193	ASN	N-CA-CB	-6.13	101.41	110.49
1	6G	220	GLY	CA-C-O	6.13	127.20	119.72
1	6L	93	PRO	CB-CA-C	6.13	119.35	111.56
1	7h	32	PHE	CA-C-O	6.13	126.74	119.56
1	7o	132	ARG	O-C-N	-6.13	115.71	122.09
1	7u	220	GLY	O-C-N	-6.13	115.78	122.41
1	7w	166	ASP	CA-C-O	6.13	127.05	120.55
1	7y	59	VAL	N-CA-CB	-6.13	103.70	110.51
1	7C	2	ILE	CA-C-O	6.13	125.55	119.97
1	7D	130	TYR	CB-CG-CD1	6.13	130.00	120.80
1	7G	142	VAL	CA-CB-CG2	-6.13	99.97	110.40
1	7P	131	LYS	N-CA-C	6.13	117.97	111.28
1	7U	85	PRO	CA-C-O	-6.13	116.77	121.31
1	89	7	GLN	CA-C-N	6.13	129.46	121.85
1	89	7	GLN	C-N-CA	6.13	129.46	121.85
1	8m	176	GLN	N-CA-CB	-6.13	101.34	110.17
1	8p	165	VAL	CA-C-N	6.13	128.41	120.44
1	8p	165	VAL	C-N-CA	6.13	128.41	120.44
1	8M	145	TYR	N-CA-C	6.13	118.75	111.33
1	8O	167	ARG	NE-CZ-NH2	6.13	124.72	119.20
1	8Q	18	ARG	NE-CZ-NH1	6.13	127.64	121.50
1	98	82	ARG	CA-CB-CG	-6.13	101.83	114.10
1	9x	130	TYR	CB-CA-C	6.13	121.11	110.68
1	9K	210	THR	O-C-N	-6.13	116.05	123.16
1	ao	135	ILE	N-CA-C	6.13	116.88	110.62
1	as	24	VAL	N-CA-C	6.13	116.88	110.62
1	13	40	PHE	CA-CB-CG	-6.13	107.67	113.80
1	aW	129	ILE	O-C-N	-6.13	115.51	121.83
1	aY	115	ILE	CA-C-N	6.13	126.90	120.03
1	aY	115	ILE	C-N-CA	6.13	126.90	120.03
1	16	148	THR	O-C-N	-6.13	116.26	123.25
1	ba	212	GLU	CA-C-N	6.13	128.50	120.28
1	ba	212	GLU	C-N-CA	6.13	128.50	120.28
1	bn	4	GLN	CB-CA-C	-6.13	101.51	110.96
1	bT	9	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	cb	5	ASN	OD1-CG-ND2	-6.13	116.47	122.60
1	cb	66	MET	O-C-N	-6.13	115.62	122.12
1	cc	169	TYR	O-C-N	6.13	128.62	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ci	182	LYS	CA-C-N	6.13	128.50	120.28
1	ci	182	LYS	C-N-CA	6.13	128.50	120.28
1	ck	177	ALA	N-CA-C	6.13	118.21	110.24
1	1e	11	VAL	CA-C-N	6.13	129.55	120.90
1	1e	11	VAL	C-N-CA	6.13	129.55	120.90
1	cs	161	PHE	CA-CB-CG	-6.13	107.67	113.80
1	cz	166	ASP	CA-C-N	6.13	128.78	120.44
1	cz	166	ASP	C-N-CA	6.13	128.78	120.44
1	cE	108	THR	N-CA-CB	6.13	121.67	111.49
1	cH	143	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	cT	224	PRO	N-CA-C	6.13	120.86	111.11
1	1i	92	GLU	CB-CG-CD	-6.13	102.17	112.60
1	db	189	LEU	O-C-N	-6.13	114.43	122.59
1	dQ	136	LEU	O-C-N	-6.13	115.75	122.07
1	1o	179	GLN	O-C-N	-6.13	115.62	122.12
1	e4	18	ARG	CA-C-N	6.13	128.41	120.44
1	e4	18	ARG	C-N-CA	6.13	128.41	120.44
1	e4	76	GLU	CA-C-N	6.13	128.50	120.28
1	e4	76	GLU	C-N-CA	6.13	128.50	120.28
1	e4	123	PRO	N-CA-C	6.13	120.86	111.11
1	e5	121	ASN	CA-CB-CG	-6.13	106.47	112.60
1	ed	53	ASN	CA-CB-CG	-6.13	106.47	112.60
1	ee	185	MET	N-CA-C	6.13	117.64	111.07
1	eg	195	ASN	O-C-N	-6.13	116.35	121.38
1	eo	196	PRO	CA-C-N	6.13	128.41	120.44
1	eo	196	PRO	C-N-CA	6.13	128.41	120.44
1	eK	168	PHE	CA-CB-CG	-6.13	107.67	113.80
1	fa	193	ASN	CA-C-N	6.13	130.01	120.75
1	fa	193	ASN	C-N-CA	6.13	130.01	120.75
1	fj	204	ALA	O-C-N	-6.13	115.62	122.12
1	fo	229	ARG	O-C-N	-6.13	116.82	123.26
1	fC	226	HIS	CB-CG-CD2	-6.13	123.22	131.20
1	1z	217	ALA	O-C-N	-6.13	115.80	122.79
1	fR	121	ASN	CA-C-O	6.13	127.28	119.67
1	k	50	GLN	N-CA-CB	6.13	118.91	110.01
1	x	35	GLU	N-CA-C	-6.13	105.62	113.23
1	D	79	GLU	CA-C-N	6.13	128.41	120.44
1	D	79	GLU	C-N-CA	6.13	128.41	120.44
1	E	160	PRO	N-CA-CB	6.13	109.69	103.25
1	K	21	ASN	N-CA-C	6.13	118.05	111.36
1	Q	80	TRP	CA-C-N	6.13	129.00	120.29
1	Q	80	TRP	C-N-CA	6.13	129.00	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	12	HIS	N-CA-C	6.13	118.94	109.07
1	gc	75	GLU	N-CA-C	6.13	118.05	111.36
1	gV	111	LEU	O-C-N	-6.13	115.62	122.12
1	h3	114	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	hP	117	TRP	CA-C-O	6.13	127.26	120.82
1	ib	58	THR	N-CA-C	6.13	117.97	111.28
1	ik	221	VAL	CA-C-N	6.13	130.31	121.54
1	ik	221	VAL	C-N-CA	6.13	130.31	121.54
1	ix	7	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	jj	113	GLU	N-CA-C	6.13	117.63	111.07
1	kt	172	LEU	CA-C-N	6.13	128.78	120.38
1	kt	172	LEU	C-N-CA	6.13	128.78	120.38
1	kW	160	PRO	O-C-N	-6.13	115.96	123.01
1	l4	66	MET	O-C-N	-6.13	115.16	122.15
1	l9	178	SER	CA-C-N	6.13	128.50	120.28
1	l9	178	SER	C-N-CA	6.13	128.50	120.28
1	lq	196	PRO	CA-C-N	6.13	129.00	120.29
1	lq	196	PRO	C-N-CA	6.13	129.00	120.29
1	2t	167	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	2u	82	ARG	NH1-CZ-NH2	-6.13	111.33	119.30
1	2w	133	TRP	CE2-CD2-CE3	6.13	124.93	118.80
1	2L	158	LYS	N-CA-C	-6.13	103.88	113.02
1	3w	198	CYS	O-C-N	-6.13	115.75	122.07
1	3K	162	ARG	O-C-N	-6.13	115.75	122.07
1	4d	62	HIS	N-CA-C	6.13	119.82	111.17
1	4q	189	LEU	N-CA-CB	6.13	118.90	110.01
1	4r	216	THR	N-CA-C	-6.13	104.52	112.68
1	4y	7	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	52	120	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	5s	64	ALA	CA-C-N	6.13	128.50	120.28
1	5s	64	ALA	C-N-CA	6.13	128.50	120.28
1	5V	148	THR	CA-CB-CG2	-6.13	100.07	110.50
1	5Y	174	ALA	N-CA-C	6.13	120.50	112.89
1	67	161	PHE	O-C-N	-6.13	113.70	122.29
1	6p	33	SER	CA-C-N	6.13	127.51	119.84
1	6p	33	SER	C-N-CA	6.13	127.51	119.84
1	6q	85	PRO	N-CA-C	6.13	125.11	112.47
1	6s	52	LEU	CA-C-N	6.13	128.50	120.28
1	6s	52	LEU	C-N-CA	6.13	128.50	120.28
1	6A	126	VAL	CA-C-N	6.13	126.75	119.94
1	6A	126	VAL	C-N-CA	6.13	126.75	119.94
1	6C	162	ARG	CA-C-N	6.13	129.00	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6C	162	ARG	C-N-CA	6.13	129.00	120.29
1	70	182	LYS	O-C-N	-6.13	114.73	122.27
1	84	3	VAL	O-C-N	-6.13	116.74	123.18
1	8f	73	ILE	N-CA-C	6.13	116.31	110.42
1	8j	4	GLN	O-C-N	-6.13	115.80	122.79
1	8l	110	THR	CA-C-N	6.13	128.78	120.38
1	8l	110	THR	C-N-CA	6.13	128.78	120.38
1	8O	164	TYR	N-CA-C	6.13	118.05	111.36
1	8X	24	VAL	CA-C-N	6.13	128.50	120.28
1	8X	24	VAL	C-N-CA	6.13	128.50	120.28
1	9Q	162	ARG	NE-CZ-NH2	6.13	124.72	119.20
1	9V	143	ARG	CA-C-N	6.13	128.78	120.44
1	9V	143	ARG	C-N-CA	6.13	128.78	120.44
1	a2	12	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	ab	128	GLU	O-C-N	-6.13	115.62	122.12
1	b0	141	ILE	N-CA-CB	6.13	117.32	110.51
1	b3	189	LEU	O-C-N	-6.13	115.75	122.07
1	b8	37	ILE	N-CA-CB	6.13	114.63	110.52
1	bs	59	VAL	CB-CA-C	-6.13	103.97	111.88
1	bD	50	GLN	CA-C-N	6.13	128.41	120.44
1	bD	50	GLN	C-N-CA	6.13	128.41	120.44
1	bY	73	ILE	CA-C-N	6.13	128.50	120.28
1	bY	73	ILE	C-N-CA	6.13	128.50	120.28
1	cO	48	THR	CA-C-N	6.13	126.31	119.32
1	cO	48	THR	C-N-CA	6.13	126.31	119.32
1	dr	124	ILE	CA-CB-CG1	6.13	120.83	110.40
1	1l	36	VAL	N-CA-C	6.13	116.31	110.42
1	dE	217	ALA	CA-C-O	6.13	127.97	120.92
1	e0	89	GLY	CA-C-N	6.13	127.51	119.84
1	e0	89	GLY	C-N-CA	6.13	127.51	119.84
1	ed	82	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	ex	65	ALA	O-C-N	-6.13	115.62	122.12
1	eH	132	ARG	N-CA-C	-6.13	104.15	111.69
1	eQ	176	GLN	CG-CD-OE1	-6.13	108.53	120.80
1	f2	14	ALA	CA-C-N	6.13	133.01	121.97
1	f2	14	ALA	C-N-CA	6.13	133.01	121.97
1	fG	158	LYS	N-CA-C	6.13	120.38	112.41
1	g0	134	ILE	O-C-N	-6.13	115.52	121.90
1	d	140	LYS	O-C-N	-6.13	115.62	122.12
1	gs	146	SER	O-C-N	-6.13	115.84	121.30
1	gz	109	SER	N-CA-CB	6.13	122.10	111.13
1	gB	130	TYR	CA-C-N	6.13	129.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gB	130	TYR	C-N-CA	6.13	129.11	120.28
1	gB	164	TYR	CB-CA-C	6.13	120.51	110.88
1	gN	114	GLN	OE1-CD-NE2	6.13	128.73	122.60
1	gU	100	ARG	CA-C-N	6.13	126.75	119.94
1	gU	100	ARG	C-N-CA	6.13	126.75	119.94
1	hh	67	GLN	N-CA-C	6.13	118.04	111.36
1	hp	192	GLN	OE1-CD-NE2	6.13	128.73	122.60
1	hv	170	LYS	CA-C-N	6.13	128.41	120.44
1	hv	170	LYS	C-N-CA	6.13	128.41	120.44
1	hw	210	THR	O-C-N	-6.13	115.80	122.79
1	ih	202	LEU	N-CA-C	6.13	118.76	111.71
1	im	7	GLN	N-CA-C	6.13	119.12	110.23
1	j7	224	PRO	N-CA-C	6.13	121.25	111.26
1	j8	76	GLU	N-CA-C	6.13	117.63	111.07
1	jb	146	SER	N-CA-CB	6.13	119.40	110.32
1	jN	72	THR	N-CA-C	6.13	117.96	111.28
1	jQ	28	GLU	O-C-N	-6.13	115.62	122.12
1	k5	216	THR	CA-C-O	6.13	126.92	120.42
1	22	60	GLY	O-C-N	-6.13	114.73	122.70
1	kx	214	MET	CG-SD-CE	-6.13	87.41	100.90
1	ky	10	MET	O-C-N	6.13	130.10	122.86
1	ky	13	GLN	N-CA-C	6.13	118.28	109.14
1	kO	163	ASP	CA-CB-CG	6.13	118.73	112.60
1	l3	221	VAL	CA-CB-CG2	-6.13	99.98	110.40
1	26	154	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	lj	162	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	lr	218	CYS	N-CA-CB	6.13	120.85	110.49
1	lN	58	THR	CB-CA-C	-6.13	101.00	110.81
1	2j	25	LYS	O-C-N	-6.13	115.16	122.15
1	2u	58	THR	N-CA-C	6.13	117.96	111.28
1	2D	219	GLN	O-C-N	-6.13	116.03	123.27
1	2L	198	CYS	CA-C-N	6.13	129.00	120.29
1	2L	198	CYS	C-N-CA	6.13	129.00	120.29
1	3d	199	LYS	CA-C-N	6.13	128.50	120.28
1	3d	199	LYS	C-N-CA	6.13	128.50	120.28
1	3t	33	SER	O-C-N	-6.13	116.14	121.35
1	44	142	VAL	CA-CB-CG2	-6.13	99.97	110.40
1	4j	41	SER	O-C-N	-6.13	115.75	122.07
1	4r	98	GLU	CA-C-N	6.13	126.04	119.85
1	4r	98	GLU	C-N-CA	6.13	126.04	119.85
1	4E	226	HIS	CA-C-O	6.13	127.05	120.55
1	4P	165	VAL	N-CA-CB	6.13	117.72	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	84	HIS	CA-CB-CG	-6.13	107.67	113.80
1	57	98	GLU	O-C-N	-6.13	115.84	121.30
1	5j	180	GLU	CB-CA-C	-6.13	100.61	110.79
1	5m	173	ARG	N-CA-C	6.13	117.96	111.28
1	5w	41	SER	CA-C-N	6.13	128.50	120.28
1	5w	41	SER	C-N-CA	6.13	128.50	120.28
1	5y	84	HIS	CA-C-O	-6.13	114.66	119.99
1	5I	132	ARG	N-CA-CB	6.13	119.26	110.06
1	5N	179	GLN	OE1-CD-NE2	6.13	128.73	122.60
1	69	79	GLU	N-CA-C	6.13	117.96	111.28
1	6m	159	GLU	CA-C-N	6.13	127.50	119.84
1	6m	159	GLU	C-N-CA	6.13	127.50	119.84
1	7b	29	GLU	N-CA-C	6.13	118.04	111.36
1	7f	189	LEU	CA-C-O	6.13	127.46	120.90
1	7k	164	TYR	CA-C-N	6.13	128.86	120.46
1	7k	164	TYR	C-N-CA	6.13	128.86	120.46
1	7k	214	MET	N-CA-C	6.13	117.96	111.28
1	7p	116	GLY	CA-C-N	6.13	128.50	120.28
1	7p	116	GLY	C-N-CA	6.13	128.50	120.28
1	7P	52	LEU	O-C-N	-6.13	114.73	122.27
1	7W	36	VAL	N-CA-C	-6.13	104.02	113.16
1	8l	80	TRP	N-CA-CB	6.13	119.14	109.82
1	8y	190	LEU	N-CA-C	6.13	118.47	111.11
1	9z	179	GLN	O-C-N	6.13	128.62	122.12
1	9G	86	VAL	O-C-N	-6.13	116.06	122.25
1	9U	2	ILE	CA-C-N	6.13	131.01	123.10
1	9U	2	ILE	C-N-CA	6.13	131.01	123.10
1	9W	73	ILE	O-C-N	-6.13	115.92	121.87
1	a5	164	TYR	N-CA-C	6.13	117.96	111.28
1	a9	19	THR	OG1-CB-CG2	-6.13	97.04	109.30
1	ae	19	THR	N-CA-C	6.13	117.63	111.07
1	ah	96	MET	CG-SD-CE	-6.13	87.41	100.90
1	aM	177	ALA	CA-C-O	-6.13	113.76	120.81
1	15	146	SER	O-C-N	-6.13	115.84	121.30
1	bB	82	ARG	NE-CZ-NH2	6.13	124.72	119.20
1	bF	40	PHE	CA-CB-CG	-6.13	107.67	113.80
1	bH	150	ILE	CA-C-N	6.13	128.50	120.28
1	bH	150	ILE	C-N-CA	6.13	128.50	120.28
1	bR	188	THR	O-C-N	-6.13	114.89	122.25
1	bY	89	GLY	O-C-N	6.13	127.90	121.77
1	bY	150	ILE	N-CA-CB	-6.13	105.47	112.21
1	cn	6	LEU	N-CA-C	6.13	119.25	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	76	GLU	N-CA-CB	6.13	119.23	110.16
1	cB	139	ASN	N-CA-CB	6.13	119.13	110.12
1	cG	143	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	cO	57	ASN	OD1-CG-ND2	-6.13	116.47	122.60
1	cR	178	SER	CA-C-N	6.13	128.50	120.28
1	cR	178	SER	C-N-CA	6.13	128.50	120.28
1	cW	176	GLN	O-C-N	-6.13	114.82	122.24
1	cY	49	PRO	CA-C-N	6.13	128.78	120.44
1	cY	49	PRO	C-N-CA	6.13	128.78	120.44
1	d0	4	GLN	O-C-N	-6.13	115.62	122.86
1	da	12	HIS	CA-C-O	-6.13	113.61	120.54
1	dl	220	GLY	N-CA-C	-6.13	107.29	115.32
1	1m	226	HIS	N-CA-C	6.13	119.86	112.38
1	dK	230	VAL	N-CA-C	-6.13	105.08	111.58
1	dS	204	ALA	CA-C-O	-6.13	113.92	120.42
1	e0	18	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	e5	12	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	e7	118	MET	N-CA-C	6.13	118.76	111.71
1	ed	70	LYS	O-C-N	-6.13	114.73	122.27
1	ei	143	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	el	104	ILE	N-CA-C	6.13	116.87	110.62
1	1t	26	VAL	O-C-N	-6.13	115.52	121.83
1	eZ	20	LEU	N-CA-C	6.13	117.76	111.14
1	f3	133	TRP	CA-C-N	6.13	128.51	120.60
1	f3	133	TRP	C-N-CA	6.13	128.51	120.60
1	f3	190	LEU	CA-C-O	6.13	127.26	120.82
1	f4	23	TRP	O-C-N	-6.13	115.62	122.12
1	1v	75	GLU	N-CA-C	6.13	117.63	111.07
1	fo	95	GLN	OE1-CD-NE2	6.13	128.73	122.60
1	fo	126	VAL	CA-C-O	6.13	127.32	120.64
1	fp	16	SER	O-C-N	-6.13	115.48	121.18
1	fv	59	VAL	CA-C-N	6.13	126.62	119.94
1	fv	59	VAL	C-N-CA	6.13	126.62	119.94
1	fB	96	MET	N-CA-C	6.13	119.37	110.42
1	fO	18	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	b	84	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	p	189	LEU	CA-C-N	6.13	128.50	120.28
1	p	189	LEU	C-N-CA	6.13	128.50	120.28
1	r	201	ILE	CB-CA-C	-6.13	104.12	111.97
1	4	112	GLN	O-C-N	-6.13	115.21	122.20
1	gb	183	ASN	O-C-N	-6.13	115.62	122.12
1	gj	55	MET	CG-SD-CE	-6.13	87.42	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	205	LEU	O-C-N	-6.13	115.52	122.08
1	gz	75	GLU	N-CA-C	6.13	117.96	111.28
1	gI	132	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	gM	210	THR	N-CA-C	6.13	117.95	110.41
1	1I	173	ARG	O-C-N	6.13	128.62	122.12
1	hC	133	TRP	N-CA-C	6.13	117.96	111.28
1	hO	56	LEU	O-C-N	-6.13	114.73	122.27
1	if	41	SER	N-CA-C	6.13	117.63	111.07
1	ih	189	LEU	N-CA-C	6.13	120.89	113.41
1	iH	100	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	1S	120	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	jB	206	GLY	CA-C-N	6.13	125.75	119.56
1	jB	206	GLY	C-N-CA	6.13	125.75	119.56
1	jJ	2	ILE	O-C-N	-6.13	116.89	123.14
1	k6	208	ALA	CA-C-N	6.13	130.01	120.75
1	k6	208	ALA	C-N-CA	6.13	130.01	120.75
1	kw	69	LEU	N-CA-C	6.13	117.63	111.07
1	kB	209	ALA	CA-C-O	6.13	128.24	121.56
1	kB	212	GLU	CA-C-N	6.13	128.78	120.44
1	kB	212	GLU	C-N-CA	6.13	128.78	120.44
1	kC	129	ILE	N-CA-C	6.13	116.31	110.42
1	kM	170	LYS	O-C-N	-6.13	115.16	122.15
1	lp	148	THR	CA-CB-CG2	6.13	120.92	110.50
1	lD	101	GLY	CA-C-O	6.13	127.62	121.00
1	2q	77	ALA	CA-C-N	6.13	128.50	120.28
1	2q	77	ALA	C-N-CA	6.13	128.50	120.28
1	2w	180	GLU	CA-C-N	6.13	128.51	120.60
1	2w	180	GLU	C-N-CA	6.13	128.51	120.60
1	4Q	113	GLU	N-CA-C	6.13	118.75	111.33
1	4U	28	GLU	CB-CG-CD	6.13	123.02	112.60
1	5r	132	ARG	O-C-N	-6.13	114.73	122.27
1	5s	104	ILE	CA-C-O	6.13	127.33	120.95
1	5L	173	ARG	CA-C-N	6.13	128.49	120.28
1	5L	173	ARG	C-N-CA	6.13	128.49	120.28
1	5R	126	VAL	CA-C-N	6.13	126.78	119.98
1	5R	126	VAL	C-N-CA	6.13	126.78	119.98
1	5X	36	VAL	CA-C-N	6.13	125.23	120.33
1	5X	36	VAL	C-N-CA	6.13	125.23	120.33
1	6g	167	ARG	CA-C-N	6.13	128.41	120.44
1	6g	167	ARG	C-N-CA	6.13	128.41	120.44
1	6U	169	TYR	CB-CG-CD2	6.13	130.00	120.80
1	77	24	VAL	CB-CA-C	6.13	120.42	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7m	92	GLU	CA-C-N	6.13	127.50	119.84
1	7m	92	GLU	C-N-CA	6.13	127.50	119.84
1	7U	104	ILE	N-CA-CB	6.13	118.42	110.57
1	7Y	133	TRP	N-CA-C	6.13	117.96	111.28
1	90	76	GLU	O-C-N	-6.13	115.16	122.15
1	9a	11	VAL	N-CA-C	6.13	118.46	109.63
1	9n	115	ILE	CA-C-N	6.13	126.74	119.94
1	9n	115	ILE	C-N-CA	6.13	126.74	119.94
1	9N	12	HIS	CA-CB-CG	6.13	119.93	113.80
1	a8	58	THR	N-CA-C	6.13	120.97	112.45
1	ak	145	TYR	O-C-N	-6.13	114.68	122.34
1	aJ	177	ALA	CA-C-N	6.13	130.01	120.75
1	aJ	177	ALA	C-N-CA	6.13	130.01	120.75
1	aP	32	PHE	N-CA-C	6.13	120.33	111.56
1	b0	10	MET	O-C-N	-6.13	114.44	122.59
1	bh	24	VAL	CB-CA-C	-6.13	103.85	111.70
1	c1	187	GLU	CA-C-O	6.13	127.01	120.70
1	1c	211	LEU	CA-C-N	6.13	128.81	120.54
1	1c	211	LEU	C-N-CA	6.13	128.81	120.54
1	cE	167	ARG	CB-CA-C	-6.13	101.25	110.88
1	1g	193	ASN	OD1-CG-ND2	6.13	128.73	122.60
1	1j	97	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	e1	71	GLU	N-CA-CB	6.13	118.96	110.07
1	e2	44	SER	CB-CA-C	-6.13	100.10	110.64
1	1p	26	VAL	CA-CB-CG2	-6.13	99.98	110.40
1	ep	21	ASN	CA-CB-CG	6.13	118.73	112.60
1	eq	15	ILE	CA-C-O	-6.13	113.12	120.78
1	eG	165	VAL	O-C-N	-6.13	115.88	121.89
1	eQ	194	ALA	CA-C-O	6.13	128.61	121.87
1	f8	132	ARG	N-CA-C	6.13	118.75	111.33
1	fP	2	ILE	N-CA-CB	-6.13	103.67	111.64
1	g2	169	TYR	CA-C-N	6.13	128.78	120.44
1	g2	169	TYR	C-N-CA	6.13	128.78	120.44
1	j	207	PRO	CA-C-N	6.13	128.49	120.28
1	j	207	PRO	C-N-CA	6.13	128.49	120.28
1	u	191	VAL	CA-C-N	6.13	129.00	120.29
1	u	191	VAL	C-N-CA	6.13	129.00	120.29
1	gr	120	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	gv	119	THR	O-C-N	-6.13	114.39	122.42
1	gx	197	ASP	CA-C-N	6.13	128.49	120.28
1	gx	197	ASP	C-N-CA	6.13	128.49	120.28
1	gy	10	MET	CA-C-N	6.13	131.68	122.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	10	MET	C-N-CA	6.13	131.68	122.91
1	h4	92	GLU	O-C-N	6.13	128.29	121.43
1	hg	1	PRO	CA-C-N	6.13	131.17	123.14
1	hg	1	PRO	C-N-CA	6.13	131.17	123.14
1	hk	74	ASN	CA-CB-CG	-6.13	106.47	112.60
1	hJ	119	THR	CA-CB-OG1	6.13	118.79	109.60
1	hN	167	ARG	N-CA-C	6.13	119.95	112.23
1	i4	135	ILE	N-CA-C	6.13	117.61	110.62
1	i8	54	THR	O-C-N	-6.13	115.62	122.12
1	1P	66	MET	O-C-N	-6.13	115.16	122.15
1	is	173	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	iE	10	MET	CA-C-N	6.13	128.97	122.97
1	iE	10	MET	C-N-CA	6.13	128.97	122.97
1	iP	120	HIS	O-C-N	-6.13	115.27	122.81
1	j1	118	MET	CG-SD-CE	-6.13	87.42	100.90
1	je	138	LEU	CA-C-N	6.13	128.49	120.28
1	je	138	LEU	C-N-CA	6.13	128.49	120.28
1	jg	49	PRO	CA-C-N	6.13	128.49	120.28
1	jg	49	PRO	C-N-CA	6.13	128.49	120.28
1	jh	43	LEU	CA-C-O	6.13	127.05	120.55
1	jF	64	ALA	N-CA-C	6.13	117.96	111.28
1	jF	198	CYS	CA-C-N	6.13	128.49	120.28
1	jF	198	CYS	C-N-CA	6.13	128.49	120.28
1	jM	63	GLN	CA-C-N	6.13	128.99	120.29
1	jM	63	GLN	C-N-CA	6.13	128.99	120.29
1	jW	154	ARG	O-C-N	-6.13	114.54	122.94
1	jY	191	VAL	N-CA-C	-6.13	106.94	111.90
1	k8	162	ARG	N-CA-C	6.13	118.46	111.11
1	kd	151	LEU	CA-C-N	6.13	131.10	120.68
1	kd	151	LEU	C-N-CA	6.13	131.10	120.68
1	kx	19	THR	N-CA-C	6.13	118.76	111.71
1	kE	52	LEU	CA-C-N	6.13	128.49	120.28
1	kE	52	LEU	C-N-CA	6.13	128.49	120.28
1	kE	226	HIS	N-CA-C	6.13	120.38	113.02
1	lQ	197	ASP	CA-C-N	6.13	128.99	120.29
1	lQ	197	ASP	C-N-CA	6.13	128.99	120.29
1	2i	63	GLN	N-CA-C	6.13	117.96	111.28
1	2z	219	GLN	CG-CD-NE2	6.13	125.59	116.40
1	2I	190	LEU	CA-C-N	6.13	128.40	120.56
1	2I	190	LEU	C-N-CA	6.13	128.40	120.56
1	2J	23	TRP	CA-CB-CG	6.13	125.24	113.60
1	2O	65	ALA	CA-C-O	-6.13	114.39	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2P	84	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	3a	35	GLU	CA-C-O	6.13	126.84	119.61
1	3d	162	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	3q	183	ASN	N-CA-C	-6.13	104.68	111.36
1	3w	163	ASP	CA-C-N	6.13	128.49	120.28
1	3w	163	ASP	C-N-CA	6.13	128.49	120.28
1	3C	149	SER	CA-C-N	6.13	128.86	120.46
1	3C	149	SER	C-N-CA	6.13	128.86	120.46
1	45	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	4f	97	ARG	NH1-CZ-NH2	-6.13	111.33	119.30
1	4x	205	LEU	CA-C-N	6.13	131.49	121.87
1	4x	205	LEU	C-N-CA	6.13	131.49	121.87
1	4z	133	TRP	N-CA-C	6.13	117.96	111.28
1	4I	50	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	4Z	189	LEU	O-C-N	6.13	128.62	122.12
1	54	161	PHE	CA-CB-CG	-6.13	107.67	113.80
1	5j	147	PRO	CB-CA-C	6.13	121.67	111.56
1	5A	103	ASP	CA-C-O	6.13	127.02	119.97
1	5X	134	ILE	CA-C-N	6.13	130.35	120.30
1	5X	134	ILE	C-N-CA	6.13	130.35	120.30
1	63	167	ARG	CG-CD-NE	-6.13	98.52	112.00
1	6e	92	GLU	CA-C-N	6.13	126.49	119.93
1	6e	92	GLU	C-N-CA	6.13	126.49	119.93
1	6u	45	GLU	N-CA-C	6.13	117.96	111.28
1	6M	19	THR	N-CA-CB	6.13	119.13	110.12
1	7A	177	ALA	O-C-N	-6.13	115.63	122.86
1	7G	19	THR	O-C-N	6.13	129.13	122.15
1	7K	208	ALA	CA-C-N	6.13	129.54	120.90
1	7K	208	ALA	C-N-CA	6.13	129.54	120.90
1	7P	33	SER	O-C-N	-6.13	114.27	121.32
1	7R	85	PRO	CA-C-N	6.13	131.09	123.12
1	7R	85	PRO	C-N-CA	6.13	131.09	123.12
1	8e	22	ALA	CA-C-O	6.13	127.25	120.82
1	8f	59	VAL	CA-C-N	6.13	133.42	121.41
1	8f	59	VAL	C-N-CA	6.13	133.42	121.41
1	8o	109	SER	N-CA-C	6.13	118.61	108.99
1	8z	8	GLY	O-C-N	-6.13	117.09	122.91
1	8D	121	ASN	OD1-CG-ND2	-6.13	116.47	122.60
1	8R	7	GLN	CA-C-O	6.13	126.52	119.35
1	9y	33	SER	N-CA-CB	-6.13	101.32	109.78
1	9O	165	VAL	CA-CB-CG1	-6.13	99.98	110.40
1	aB	118	MET	CA-C-O	6.13	127.05	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aF	143	ARG	NE-CZ-NH2	-6.13	113.68	119.20
1	aU	70	LYS	CA-C-N	6.13	128.81	120.54
1	aU	70	LYS	C-N-CA	6.13	128.81	120.54
1	bb	131	LYS	CA-C-N	6.13	128.49	120.28
1	bb	131	LYS	C-N-CA	6.13	128.49	120.28
1	bD	28	GLU	N-CA-C	6.13	118.04	111.36
1	bI	216	THR	N-CA-CB	6.13	119.36	110.47
1	bQ	227	LYS	N-CA-CB	6.13	119.05	110.04
1	c2	7	GLN	CA-C-N	6.13	133.42	121.41
1	c2	7	GLN	C-N-CA	6.13	133.42	121.41
1	c5	149	SER	O-C-N	-6.13	115.27	122.81
1	cb	154	ARG	NH1-CZ-NH2	-6.13	111.33	119.30
1	cc	101	GLY	O-C-N	-6.13	116.22	122.17
1	cf	179	GLN	O-C-N	-6.13	115.72	122.09
1	cq	76	GLU	CA-C-O	-6.13	114.39	120.82
1	cy	58	THR	CA-C-N	6.13	130.14	122.48
1	cy	58	THR	C-N-CA	6.13	130.14	122.48
1	1f	82	ARG	N-CA-C	6.13	118.93	111.82
1	cD	96	MET	N-CA-C	6.13	119.14	110.50
1	cH	82	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	cK	169	TYR	N-CA-CB	6.13	118.96	110.07
1	d2	69	LEU	CB-CA-C	6.13	120.50	110.88
1	dh	55	MET	CA-C-N	6.13	128.81	120.54
1	dh	55	MET	C-N-CA	6.13	128.81	120.54
1	dh	185	MET	CG-SD-CE	-6.13	87.42	100.90
1	dn	20	LEU	O-C-N	-6.13	115.72	122.09
1	dp	144	MET	CA-C-O	6.13	126.95	119.11
1	dq	177	ALA	CA-C-N	6.13	129.54	120.90
1	dq	177	ALA	C-N-CA	6.13	129.54	120.90
1	dJ	212	GLU	N-CA-C	6.13	118.47	111.11
1	dS	189	LEU	N-CA-CB	-6.13	101.09	110.16
1	eg	190	LEU	N-CA-CB	6.13	120.85	110.49
1	ey	53	ASN	O-C-N	-6.13	115.76	122.07
1	eB	29	GLU	O-C-N	-6.13	115.16	122.15
1	eI	219	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	eL	74	ASN	O-C-N	6.13	128.62	122.12
1	ff	162	ARG	O-C-N	-6.13	115.76	122.07
1	fm	216	THR	N-CA-C	6.13	120.76	113.28
1	fq	214	MET	N-CA-C	6.13	117.96	111.28
1	ft	51	ASP	N-CA-C	6.13	118.04	111.36
1	fv	132	ARG	N-CA-C	6.13	121.42	111.37
1	fI	160	PRO	N-CD-CG	6.13	112.39	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	113	GLU	N-CA-C	6.13	117.63	111.07
1	o	227	LYS	CA-C-O	6.13	128.05	121.55
1	3	184	TRP	CD2-CE2-CZ2	-6.13	116.27	122.40
1	G	104	ILE	N-CA-CB	6.13	118.87	110.54
1	X	132	ARG	NE-CZ-NH2	-6.13	113.69	119.20
1	gh	130	TYR	CA-C-O	6.13	127.04	120.55
1	gr	129	ILE	O-C-N	-6.13	115.93	121.87
1	gA	113	GLU	N-CA-CB	6.13	118.89	110.01
1	gR	31	ALA	N-CA-C	6.13	117.96	111.28
1	gR	126	VAL	CA-CB-CG1	-6.13	99.98	110.40
1	h2	43	LEU	N-CA-C	6.13	117.96	111.28
1	hi	18	ARG	NE-CZ-NH2	-6.13	113.69	119.20
1	hm	124	ILE	CA-C-N	6.13	127.50	119.84
1	hm	124	ILE	C-N-CA	6.13	127.50	119.84
1	hn	31	ALA	N-CA-C	6.13	118.90	108.67
1	1J	71	GLU	N-CA-C	6.13	117.63	111.07
1	hI	211	LEU	CA-C-O	-6.13	114.06	120.55
1	hT	171	THR	N-CA-C	6.13	119.59	111.75
1	i5	92	GLU	O-C-N	-6.13	114.99	121.30
1	ii	65	ALA	CA-C-N	6.13	128.49	120.28
1	ii	65	ALA	C-N-CA	6.13	128.49	120.28
1	iu	59	VAL	N-CA-C	6.13	120.62	112.04
1	iw	136	LEU	CA-C-O	6.13	127.25	120.82
1	iP	62	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	iP	166	ASP	O-C-N	-6.13	115.76	122.07
1	iQ	180	GLU	CA-C-O	6.13	126.91	120.42
1	iV	226	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	iZ	213	GLU	N-CA-C	6.13	117.96	111.28
1	ja	117	TRP	N-CA-C	6.13	117.96	111.28
1	jp	54	THR	N-CA-C	6.13	117.96	111.28
1	jx	128	GLU	N-CA-CB	6.13	119.23	110.16
1	jM	112	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	kc	4	GLN	CA-C-N	6.13	128.41	120.44
1	kc	4	GLN	C-N-CA	6.13	128.41	120.44
1	ki	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	kr	226	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	kD	94	GLY	CA-C-N	6.13	130.56	120.94
1	kD	94	GLY	C-N-CA	6.13	130.56	120.94
1	kX	19	THR	CA-C-O	6.13	127.04	120.55
1	kX	50	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	ls	57	ASN	N-CA-C	-6.13	104.51	112.23
1	lD	134	ILE	O-C-N	-6.13	115.93	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2k	115	ILE	CA-C-N	6.13	126.74	119.94
1	2k	115	ILE	C-N-CA	6.13	126.74	119.94
1	2q	199	LYS	O-C-N	6.13	129.39	122.22
1	2Q	28	GLU	O-C-N	-6.13	115.76	122.07
1	2W	11	VAL	N-CA-CB	-6.13	102.58	111.52
1	2X	120	HIS	CE1-NE2-CD2	-6.13	102.87	109.00
1	3s	53	ASN	CA-C-N	6.13	128.49	120.28
1	3s	53	ASN	C-N-CA	6.13	128.49	120.28
1	3E	155	GLN	O-C-N	-6.13	116.24	123.22
1	3G	131	LYS	CA-C-O	-6.13	114.39	120.82
1	3J	62	HIS	CB-CA-C	-6.13	103.03	111.73
1	3K	149	SER	O-C-N	-6.13	115.78	123.01
1	3Q	59	VAL	N-CA-CB	6.13	118.38	111.21
1	3S	77	ALA	CA-C-O	-6.13	114.39	120.82
1	3W	46	GLY	CA-C-N	6.13	129.81	121.05
1	3W	46	GLY	C-N-CA	6.13	129.81	121.05
1	3Z	96	MET	N-CA-C	6.13	123.85	110.80
1	40	43	LEU	N-CA-CB	-6.13	101.09	110.16
1	4f	206	GLY	O-C-N	-6.13	115.64	121.77
1	4h	12	HIS	CB-CG-CD2	6.13	139.16	131.20
1	4k	133	TRP	CB-CG-CD1	6.13	136.09	126.90
1	4v	35	GLU	CA-C-N	6.13	130.15	120.47
1	4v	35	GLU	C-N-CA	6.13	130.15	120.47
1	4w	69	LEU	O-C-N	-6.13	115.72	122.09
1	4y	193	ASN	CA-CB-CG	-6.13	106.47	112.60
1	4J	54	THR	O-C-N	-6.13	115.76	122.07
1	4J	221	VAL	CA-C-N	6.13	133.42	121.41
1	4J	221	VAL	C-N-CA	6.13	133.42	121.41
1	4R	87	HIS	CA-C-N	6.13	129.41	120.71
1	4R	87	HIS	C-N-CA	6.13	129.41	120.71
1	50	22	ALA	O-C-N	-6.13	114.12	122.33
1	56	205	LEU	N-CA-C	6.13	118.76	111.71
1	5J	84	HIS	CB-CG-CD2	-6.13	123.23	131.20
1	65	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	6n	3	VAL	O-C-N	-6.13	116.56	123.18
1	70	204	ALA	CA-C-N	6.13	128.49	120.28
1	70	204	ALA	C-N-CA	6.13	128.49	120.28
1	76	158	LYS	CB-CA-C	6.13	117.06	109.16
1	7e	79	GLU	N-CA-CB	6.13	119.25	110.06
1	7f	142	VAL	N-CA-C	6.13	116.30	110.42
1	7l	177	ALA	N-CA-C	6.13	118.61	108.99
1	7C	217	ALA	CA-C-O	6.13	127.11	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	205	LEU	CA-C-N	6.13	131.49	121.87
1	7Q	205	LEU	C-N-CA	6.13	131.49	121.87
1	82	226	HIS	CA-CB-CG	-6.13	107.67	113.80
1	89	195	ASN	O-C-N	-6.13	114.28	121.32
1	8u	114	GLN	CA-C-O	-6.13	114.39	120.82
1	8Z	139	ASN	CA-CB-CG	6.13	118.73	112.60
1	94	21	ASN	CB-CA-C	6.13	120.96	110.79
1	9c	29	GLU	O-C-N	-6.13	114.17	122.19
1	9q	211	LEU	CA-C-N	6.13	128.41	120.44
1	9q	211	LEU	C-N-CA	6.13	128.41	120.44
1	9v	87	HIS	CA-CB-CG	6.13	119.93	113.80
1	9B	211	LEU	O-C-N	-6.13	115.63	122.12
1	9R	202	LEU	CA-C-N	6.13	128.49	120.28
1	9R	202	LEU	C-N-CA	6.13	128.49	120.28
1	a1	139	ASN	CA-C-N	6.13	128.81	120.54
1	a1	139	ASN	C-N-CA	6.13	128.81	120.54
1	a6	58	THR	N-CA-CB	6.13	120.56	110.39
1	12	156	GLY	O-C-N	-6.13	116.05	122.18
1	av	168	PHE	CA-CB-CG	6.13	119.93	113.80
1	aM	84	HIS	O-C-N	-6.13	115.25	121.31
1	14	204	ALA	O-C-N	-6.13	115.63	122.12
1	bn	222	GLY	CA-C-O	-6.13	116.68	122.13
1	bu	126	VAL	N-CA-C	6.13	118.71	111.05
1	bB	20	LEU	CA-C-N	6.13	128.40	120.44
1	bB	20	LEU	C-N-CA	6.13	128.40	120.44
1	bI	130	TYR	O-C-N	-6.13	115.76	122.07
1	bI	163	ASP	N-CA-CB	-6.13	101.11	110.12
1	bM	32	PHE	CA-CB-CG	-6.13	107.67	113.80
1	bS	212	GLU	N-CA-C	6.13	118.74	111.33
1	c4	65	ALA	N-CA-C	6.13	117.96	111.28
1	cd	143	ARG	NE-CZ-NH1	6.13	127.63	121.50
1	cZ	73	ILE	N-CA-C	6.13	116.30	110.42
1	d6	87	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	dk	2	ILE	CB-CA-C	-6.13	102.82	111.21
1	dp	143	ARG	O-C-N	-6.13	115.76	122.07
1	1n	186	THR	CA-C-O	6.13	127.25	120.82
1	dW	54	THR	N-CA-C	6.13	117.96	111.28
1	1p	57	ASN	CA-C-N	6.13	128.49	120.28
1	1p	57	ASN	C-N-CA	6.13	128.49	120.28
1	el	147	PRO	N-CA-C	6.13	120.83	111.15
1	eA	67	GLN	OE1-CD-NE2	-6.13	116.47	122.60
1	eF	112	GLN	CA-C-N	6.13	128.49	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eF	112	GLN	C-N-CA	6.13	128.49	120.28
1	eG	226	HIS	O-C-N	-6.13	115.35	122.95
1	eL	51	ASP	CA-C-N	6.13	128.41	120.44
1	eL	51	ASP	C-N-CA	6.13	128.41	120.44
1	1t	174	ALA	CA-C-O	6.13	127.45	120.71
1	f0	160	PRO	CA-C-N	6.13	128.40	120.44
1	f0	160	PRO	C-N-CA	6.13	128.40	120.44
1	f6	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	ff	59	VAL	N-CA-CB	6.13	117.84	110.31
1	1w	189	LEU	CA-C-N	6.13	129.31	120.79
1	1w	189	LEU	C-N-CA	6.13	129.31	120.79
1	1x	134	ILE	O-C-N	-6.13	115.91	121.91
1	fL	75	GLU	N-CA-C	6.13	117.96	111.28
1	g0	4	GLN	O-C-N	-6.13	116.05	123.16
1	g0	19	THR	N-CA-CB	6.13	119.23	110.16
1	g2	172	LEU	CA-C-N	6.13	129.10	120.28
1	g2	172	LEU	C-N-CA	6.13	129.10	120.28
1	g3	74	ASN	O-C-N	-6.13	115.63	122.12
1	g6	226	HIS	ND1-CE1-NE2	6.13	114.53	108.40
1	g7	177	ALA	CA-C-N	6.13	130.00	120.75
1	g7	177	ALA	C-N-CA	6.13	130.00	120.75
1	n	40	PHE	CA-CB-CG	-6.13	107.67	113.80
1	A	171	THR	CA-C-N	6.13	128.49	120.28
1	A	171	THR	C-N-CA	6.13	128.49	120.28
1	G	78	ALA	N-CA-C	6.13	118.04	111.36
1	K	84	HIS	CA-C-N	6.13	127.50	119.84
1	K	84	HIS	C-N-CA	6.13	127.50	119.84
1	5	160	PRO	CB-CA-C	6.13	119.23	111.39
1	9	114	GLN	O-C-N	-6.13	115.76	122.07
1	1D	75	GLU	CB-CG-CD	6.12	123.01	112.60
1	gB	28	GLU	N-CA-C	6.12	117.62	111.07
1	1K	138	LEU	N-CA-CB	6.12	119.12	110.12
1	hB	101	GLY	O-C-N	-6.12	115.75	122.24
1	iw	87	HIS	CG-CD2-NE2	6.12	113.33	107.20
1	iy	6	LEU	CA-C-N	6.12	129.41	120.71
1	iy	6	LEU	C-N-CA	6.12	129.41	120.71
1	iP	159	GLU	CA-C-O	6.12	123.27	119.29
1	iX	170	LYS	CA-C-O	6.12	126.91	120.42
1	jj	191	VAL	CA-CB-CG2	-6.12	99.99	110.40
1	1W	129	ILE	CA-C-N	6.12	128.77	120.44
1	1W	129	ILE	C-N-CA	6.12	128.77	120.44
1	kj	75	GLU	N-CA-CB	6.12	119.07	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	142	VAL	CB-CA-C	6.12	119.81	111.97
1	kq	5	ASN	CA-CB-CG	6.12	118.72	112.60
1	kF	48	THR	CA-C-N	6.12	125.61	119.24
1	kF	48	THR	C-N-CA	6.12	125.61	119.24
1	lp	201	ILE	CA-C-O	-6.12	114.25	121.05
1	lF	113	GLU	N-CA-C	6.12	117.62	111.07
1	lP	120	HIS	CB-CG-CD2	-6.12	123.24	131.20
1	lP	163	ASP	CA-C-N	6.12	128.49	120.28
1	lP	163	ASP	C-N-CA	6.12	128.49	120.28
1	2b	40	PHE	CA-C-N	6.12	128.49	120.28
1	2b	40	PHE	C-N-CA	6.12	128.49	120.28
1	2f	220	GLY	O-C-N	-6.12	115.01	122.30
1	2p	151	LEU	N-CA-C	-6.12	104.51	112.23
1	2W	178	SER	O-C-N	-6.12	115.58	122.75
1	3h	92	GLU	O-C-N	-6.12	115.43	121.19
1	3n	38	PRO	CB-CA-C	6.12	121.05	112.11
1	3U	130	TYR	O-C-N	-6.12	115.63	122.12
1	42	135	ILE	CA-C-O	6.12	127.32	120.95
1	43	217	ALA	N-CA-CB	-6.12	101.92	110.25
1	4f	208	ALA	CA-C-O	6.12	126.44	119.27
1	4h	157	PRO	N-CA-CB	6.12	109.68	103.25
1	4l	180	GLU	CA-C-N	6.12	128.28	120.56
1	4l	180	GLU	C-N-CA	6.12	128.28	120.56
1	4I	173	ARG	CA-C-N	6.12	128.40	120.44
1	4I	173	ARG	C-N-CA	6.12	128.40	120.44
1	5o	112	GLN	N-CA-C	6.12	117.96	111.28
1	5v	100	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	5B	23	TRP	CA-C-N	6.12	128.85	120.46
1	5B	23	TRP	C-N-CA	6.12	128.85	120.46
1	7i	108	THR	CA-C-N	-6.12	114.13	122.77
1	7i	108	THR	C-N-CA	-6.12	114.13	122.77
1	83	100	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	8f	2	ILE	CA-CB-CG1	6.12	120.81	110.40
1	8o	159	GLU	CB-CA-C	6.12	119.04	109.42
1	8M	53	ASN	N-CA-C	6.12	117.96	111.28
1	90	143	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	Z	114	GLN	N-CA-C	6.12	117.75	111.14
1	a9	162	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	aw	41	SER	CA-C-O	6.12	127.04	120.55
1	aN	7	GLN	CA-C-N	6.12	131.83	120.87
1	aN	7	GLN	C-N-CA	6.12	131.83	120.87
1	bM	91	ILE	N-CA-C	-6.12	99.76	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	213	GLU	CA-C-N	6.12	128.49	120.28
1	bZ	213	GLU	C-N-CA	6.12	128.49	120.28
1	c6	62	HIS	ND1-CE1-NE2	6.12	114.53	108.40
1	dp	175	GLU	CA-C-O	6.12	127.96	120.92
1	dA	164	TYR	N-CA-C	6.12	118.46	111.11
1	dM	86	VAL	CA-C-N	6.12	129.46	120.82
1	dM	86	VAL	C-N-CA	6.12	129.46	120.82
1	e1	158	LYS	CA-C-O	6.12	127.01	120.70
1	e6	41	SER	CA-C-O	-6.12	114.39	120.82
1	1q	12	HIS	CB-CG-CD2	-6.12	123.24	131.20
1	eB	47	ALA	CB-CA-C	6.12	120.81	109.54
1	fo	226	HIS	CB-CG-CD2	-6.12	123.24	131.20
1	g8	132	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	1C	51	ASP	CA-C-O	6.12	127.04	120.55
1	gr	139	ASN	CA-C-N	6.12	128.40	120.44
1	gr	139	ASN	C-N-CA	6.12	128.40	120.44
1	gv	126	VAL	CA-CB-CG1	-6.12	99.99	110.40
1	gG	107	THR	CA-C-O	-6.12	113.44	120.24
1	gG	221	VAL	CA-CB-CG2	6.12	120.81	110.40
1	gO	100	ARG	NE-CZ-NH1	-6.12	115.38	121.50
1	hi	117	TRP	N-CA-C	6.12	117.95	111.28
1	hs	171	THR	N-CA-CB	6.12	119.06	109.94
1	hA	66	MET	CA-C-N	6.12	128.77	120.44
1	hA	66	MET	C-N-CA	6.12	128.77	120.44
1	hR	164	TYR	N-CA-C	6.12	117.95	111.28
1	ia	128	GLU	CA-C-N	6.12	128.50	120.60
1	ia	128	GLU	C-N-CA	6.12	128.50	120.60
1	ic	51	ASP	CA-C-N	6.12	128.40	120.44
1	ic	51	ASP	C-N-CA	6.12	128.40	120.44
1	if	194	ALA	CA-C-N	6.12	128.90	120.39
1	if	194	ALA	C-N-CA	6.12	128.90	120.39
1	ik	51	ASP	N-CA-C	6.12	117.62	111.07
1	ir	114	GLN	N-CA-C	6.12	117.95	111.28
1	iw	162	ARG	N-CA-C	6.12	118.75	111.71
1	ja	107	THR	N-CA-C	-6.12	105.47	113.12
1	ja	140	LYS	N-CA-C	6.12	118.46	111.11
1	jc	178	SER	CA-C-N	6.12	128.49	120.28
1	jc	178	SER	C-N-CA	6.12	128.49	120.28
1	jj	95	GLN	O-C-N	-6.12	115.74	122.84
1	jn	149	SER	N-CA-CB	6.12	118.97	109.85
1	jL	163	ASP	CA-CB-CG	-6.12	106.48	112.60
1	jS	18	ARG	NE-CZ-NH1	-6.12	115.38	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	143	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	ke	196	PRO	CA-C-N	6.12	128.49	120.28
1	ke	196	PRO	C-N-CA	6.12	128.49	120.28
1	kn	95	GLN	N-CA-C	6.12	119.62	109.46
1	kX	126	VAL	N-CA-CB	6.12	119.76	110.58
1	l6	165	VAL	CA-CB-CG2	6.12	120.81	110.40
1	lu	94	GLY	O-C-N	-6.12	115.61	122.28
1	lB	221	VAL	N-CA-C	-6.12	99.30	108.12
1	lD	149	SER	N-CA-C	6.12	119.14	109.96
1	lG	191	VAL	CA-CB-CG2	-6.12	99.99	110.40
1	2a	180	GLU	N-CA-C	6.12	117.62	111.07
1	2d	86	VAL	N-CA-C	6.12	116.87	110.62
1	2p	100	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	2s	19	THR	N-CA-C	6.12	117.62	111.07
1	2F	120	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	2K	197	ASP	CA-CB-CG	-6.12	106.48	112.60
1	2N	173	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	2U	62	HIS	CG-CD2-NE2	-6.12	101.08	107.20
1	35	135	ILE	N-CA-CB	6.12	117.71	110.55
1	3u	128	GLU	N-CA-C	6.12	118.03	111.36
1	3Q	119	THR	O-C-N	-6.12	114.26	122.22
1	3T	20	LEU	CA-C-N	6.12	129.62	120.31
1	3T	20	LEU	C-N-CA	6.12	129.62	120.31
1	3V	185	MET	CA-C-N	6.12	128.99	120.29
1	3V	185	MET	C-N-CA	6.12	128.99	120.29
1	3W	124	ILE	N-CA-C	-6.12	101.99	107.56
1	3Z	228	ALA	CA-C-N	6.12	129.62	120.31
1	3Z	228	ALA	C-N-CA	6.12	129.62	120.31
1	44	92	GLU	CA-C-N	6.12	127.50	119.84
1	44	92	GLU	C-N-CA	6.12	127.50	119.84
1	45	48	THR	N-CA-CB	6.12	116.84	109.74
1	48	27	VAL	N-CA-C	6.12	118.70	111.05
1	4s	53	ASN	N-CA-C	6.12	117.95	111.28
1	4H	19	THR	CA-C-N	6.12	128.77	120.44
1	4H	19	THR	C-N-CA	6.12	128.77	120.44
1	4J	125	PRO	CA-C-N	6.12	129.16	120.53
1	4J	125	PRO	C-N-CA	6.12	129.16	120.53
1	4V	18	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	5l	47	ALA	N-CA-C	6.12	119.11	110.23
1	5z	40	PHE	N-CA-C	6.12	117.95	111.28
1	5F	159	GLU	CA-C-N	6.12	126.48	119.93
1	5F	159	GLU	C-N-CA	6.12	126.48	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5J	35	GLU	O-C-N	-6.12	114.01	122.46
1	5J	146	SER	N-CA-CB	6.12	118.77	110.14
1	5Y	73	ILE	N-CA-C	6.12	116.30	110.42
1	62	29	GLU	CA-C-N	6.12	132.10	122.49
1	62	29	GLU	C-N-CA	6.12	132.10	122.49
1	64	130	TYR	N-CA-C	6.12	118.03	111.36
1	6c	213	GLU	CA-C-N	6.12	128.49	120.28
1	6c	213	GLU	C-N-CA	6.12	128.49	120.28
1	6e	125	PRO	N-CA-CB	-6.12	97.58	102.36
1	6k	95	GLN	O-C-N	-6.12	116.83	123.26
1	75	143	ARG	CA-C-N	6.12	128.81	120.54
1	75	143	ARG	C-N-CA	6.12	128.81	120.54
1	7c	66	MET	N-CA-C	6.12	117.95	111.28
1	7i	67	GLN	N-CA-C	6.12	117.62	111.07
1	7v	131	LYS	N-CA-C	6.12	117.95	111.28
1	7G	179	GLN	OE1-CD-NE2	6.12	128.72	122.60
1	8j	77	ALA	CA-C-N	6.12	128.40	120.44
1	8j	77	ALA	C-N-CA	6.12	128.40	120.44
1	8l	46	GLY	CA-C-O	6.12	126.60	119.13
1	8l	223	GLY	CA-C-O	-6.12	112.76	121.52
1	8F	115	ILE	O-C-N	-6.12	115.93	121.87
1	8I	184	TRP	N-CA-C	6.12	118.75	111.71
1	8S	226	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	90	66	MET	CA-C-O	6.12	127.24	120.63
1	98	129	ILE	CA-C-N	6.12	128.40	120.44
1	98	129	ILE	C-N-CA	6.12	128.40	120.44
1	9b	99	PRO	N-CA-C	6.12	120.69	111.14
1	9c	194	ALA	O-C-N	-6.12	116.08	122.94
1	9e	152	ASP	N-CA-C	6.12	117.75	111.14
1	9g	204	ALA	CA-C-N	6.12	128.49	120.28
1	9g	204	ALA	C-N-CA	6.12	128.49	120.28
1	9p	199	LYS	N-CA-C	6.12	119.59	111.75
1	9v	161	PHE	N-CA-C	6.12	117.95	111.28
1	9F	23	TRP	CB-CG-CD2	6.12	135.37	126.80
1	9F	117	TRP	CB-CG-CD2	-6.12	118.23	126.80
1	9O	168	PHE	CA-C-N	6.12	128.49	120.28
1	9O	168	PHE	C-N-CA	6.12	128.49	120.28
1	9Q	119	THR	CA-C-N	6.12	130.56	120.94
1	9Q	119	THR	C-N-CA	6.12	130.56	120.94
1	ad	82	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	ad	139	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	ag	21	ASN	OD1-CG-ND2	-6.12	116.48	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aB	88	ALA	N-CA-C	6.12	118.68	110.35
1	aZ	62	HIS	O-C-N	-6.12	114.20	122.41
1	aZ	104	ILE	N-CA-C	6.12	116.87	110.62
1	b4	12	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	18	79	GLU	N-CA-C	6.12	117.62	111.07
1	bZ	179	GLN	CA-C-O	-6.12	114.06	120.55
1	c3	39	MET	N-CA-C	6.12	117.95	111.28
1	c6	29	GLU	N-CA-C	6.12	117.62	111.07
1	ce	91	ILE	N-CA-C	6.12	117.64	109.37
1	ck	204	ALA	N-CA-C	6.12	117.62	111.07
1	cO	224	PRO	N-CA-C	6.12	120.85	111.11
1	d0	79	GLU	CA-C-N	6.12	128.81	120.54
1	d0	79	GLU	C-N-CA	6.12	128.81	120.54
1	da	140	LYS	O-C-N	-6.12	115.63	122.12
1	ds	71	GLU	CA-C-N	6.12	128.40	120.44
1	ds	71	GLU	C-N-CA	6.12	128.40	120.44
1	dt	214	MET	O-C-N	-6.12	115.22	122.20
1	dy	4	GLN	CA-C-N	6.12	133.24	121.54
1	dy	4	GLN	C-N-CA	6.12	133.24	121.54
1	dD	120	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	dH	64	ALA	N-CA-C	6.12	117.95	111.28
1	eb	143	ARG	CA-C-N	6.12	128.81	120.54
1	eb	143	ARG	C-N-CA	6.12	128.81	120.54
1	ec	139	ASN	CA-CB-CG	-6.12	106.48	112.60
1	eH	26	VAL	N-CA-C	6.12	116.30	110.42
1	eI	216	THR	N-CA-C	-6.12	104.31	112.94
1	eR	48	THR	CA-C-N	6.12	127.49	119.84
1	eR	48	THR	C-N-CA	6.12	127.49	119.84
1	ff	14	ALA	N-CA-C	6.12	118.87	110.24
1	fi	170	LYS	CA-C-N	6.12	128.40	120.44
1	fi	170	LYS	C-N-CA	6.12	128.40	120.44
1	fv	92	GLU	N-CA-C	6.12	123.34	109.81
1	b	125	PRO	CA-C-N	6.12	130.14	120.47
1	b	125	PRO	C-N-CA	6.12	130.14	120.47
1	d	28	GLU	N-CA-C	6.12	118.75	111.71
1	1	179	GLN	CA-C-O	6.12	127.45	120.90
1	q	221	VAL	N-CA-C	6.12	117.64	109.37
1	2	54	THR	CA-CB-OG1	6.12	118.79	109.60
1	y	98	GLU	CB-CA-C	6.12	116.83	109.85
1	9	176	GLN	CA-C-O	6.12	126.91	120.36
1	gv	217	ALA	O-C-N	-6.12	116.06	123.10
1	gE	82	ARG	N-CA-C	6.12	117.64	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gV	88	ALA	N-CA-C	6.12	118.74	111.33
1	hv	227	LYS	CA-C-O	6.12	127.29	120.92
1	hy	126	VAL	CA-CB-CG1	6.12	120.81	110.40
1	hR	206	GLY	O-C-N	-6.12	115.65	121.77
1	iu	109	SER	N-CA-C	-6.12	100.29	109.96
1	iE	186	THR	N-CA-C	6.12	117.95	111.28
1	1R	202	LEU	N-CA-C	6.12	117.95	111.28
1	iS	146	SER	CA-C-N	6.12	127.49	119.84
1	iS	146	SER	C-N-CA	6.12	127.49	119.84
1	iU	37	ILE	CA-C-O	-6.12	113.65	118.85
1	jc	13	GLN	CB-CG-CD	6.12	123.00	112.60
1	1X	152	ASP	CA-C-N	6.12	130.92	121.19
1	1X	152	ASP	C-N-CA	6.12	130.92	121.19
1	kc	97	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	ky	38	PRO	CA-C-N	6.12	128.40	120.44
1	ky	38	PRO	C-N-CA	6.12	128.40	120.44
1	kC	55	MET	O-C-N	-6.12	115.63	122.12
1	kN	63	GLN	O-C-N	-6.12	115.63	122.12
1	l4	209	ALA	N-CA-C	6.12	123.84	110.80
1	la	123	PRO	N-CA-C	6.12	120.69	111.14
1	lJ	156	GLY	CA-C-N	6.12	125.68	119.19
1	lJ	156	GLY	C-N-CA	6.12	125.68	119.19
1	lN	71	GLU	CA-C-N	6.12	128.40	120.44
1	lN	71	GLU	C-N-CA	6.12	128.40	120.44
1	lO	165	VAL	O-C-N	-6.12	115.89	121.89
1	lR	194	ALA	CA-C-O	6.12	128.60	121.87
1	2s	166	ASP	CA-CB-CG	-6.12	106.48	112.60
1	2D	103	ASP	O-C-N	-6.12	115.77	122.07
1	2Q	149	SER	O-C-N	-6.12	115.42	122.89
1	2Z	213	GLU	CA-C-N	6.12	129.61	120.31
1	2Z	213	GLU	C-N-CA	6.12	129.61	120.31
1	3e	87	HIS	CA-C-N	6.12	129.62	120.31
1	3e	87	HIS	C-N-CA	6.12	129.62	120.31
1	3s	22	ALA	CA-C-O	6.12	127.25	120.82
1	4j	183	ASN	CA-CB-CG	-6.12	106.48	112.60
1	4F	62	HIS	CB-CG-ND1	-6.12	113.52	122.70
1	4J	216	THR	CA-CB-CG2	-6.12	100.09	110.50
1	5q	167	ARG	O-C-N	-6.12	115.77	122.07
1	5C	102	SER	N-CA-C	6.12	120.01	112.54
1	5M	186	THR	N-CA-C	6.12	118.49	111.02
1	5O	48	THR	CA-C-O	-6.12	114.08	120.87
1	6g	74	ASN	N-CA-C	6.12	117.62	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	53	ASN	O-C-N	-6.12	115.63	122.12
1	6t	36	VAL	N-CA-C	6.12	116.79	110.36
1	6X	209	ALA	CA-C-N	6.12	129.82	120.82
1	6X	209	ALA	C-N-CA	6.12	129.82	120.82
1	70	173	ARG	CA-C-N	6.12	128.48	120.28
1	70	173	ARG	C-N-CA	6.12	128.48	120.28
1	72	51	ASP	O-C-N	-6.12	115.77	122.07
1	74	182	LYS	CA-C-N	6.12	128.98	120.29
1	74	182	LYS	C-N-CA	6.12	128.98	120.29
1	7A	182	LYS	N-CA-C	6.12	117.95	111.28
1	7E	142	VAL	O-C-N	-6.12	115.93	121.87
1	7N	59	VAL	N-CA-CB	6.12	119.68	110.13
1	7U	63	GLN	N-CA-CB	6.12	119.24	110.06
1	7Y	57	ASN	CA-C-N	6.12	128.48	120.28
1	7Y	57	ASN	C-N-CA	6.12	128.48	120.28
1	83	215	MET	CA-C-N	6.12	128.81	120.54
1	83	215	MET	C-N-CA	6.12	128.81	120.54
1	8f	179	GLN	N-CA-C	6.12	118.75	111.71
1	8m	156	GLY	O-C-N	-6.12	116.91	122.42
1	8F	144	MET	N-CA-C	6.12	117.95	111.28
1	9e	199	LYS	N-CA-C	6.12	118.45	111.11
1	9f	198	CYS	N-CA-C	6.12	117.95	111.28
1	9w	74	ASN	N-CA-C	6.12	117.62	111.07
1	9G	39	MET	CG-SD-CE	-6.12	87.43	100.90
1	Z	23	TRP	CA-C-N	6.12	129.16	120.53
1	Z	23	TRP	C-N-CA	6.12	129.16	120.53
1	a0	109	SER	N-CA-CB	6.12	120.96	110.68
1	a1	133	TRP	N-CA-C	6.12	117.62	111.07
1	a2	12	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	10	34	PRO	N-CA-C	-6.12	106.21	113.86
1	aa	213	GLU	CA-C-O	-6.12	114.39	120.82
1	am	148	THR	CA-C-N	-6.12	112.81	122.73
1	am	148	THR	C-N-CA	-6.12	112.81	122.73
1	an	227	LYS	N-CA-C	6.12	118.87	110.24
1	aN	46	GLY	N-CA-C	6.12	123.73	114.61
1	b0	121	ASN	CA-C-O	-6.12	114.81	119.59
1	bp	70	LYS	N-CA-C	6.12	118.75	111.71
1	bB	93	PRO	CA-C-O	-6.12	114.65	121.32
1	bC	28	GLU	N-CA-C	6.12	117.95	111.28
1	bJ	112	GLN	O-C-N	-6.12	115.72	122.09
1	bS	128	GLU	CA-C-N	6.12	128.84	120.46
1	bS	128	GLU	C-N-CA	6.12	128.84	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c5	148	THR	O-C-N	-6.12	116.07	123.29
1	c8	171	THR	O-C-N	6.12	129.13	122.15
1	c9	72	THR	N-CA-CB	6.12	118.89	110.01
1	ca	85	PRO	N-CA-C	6.12	120.84	111.11
1	cj	92	GLU	N-CA-C	6.12	121.85	113.16
1	cw	32	PHE	CB-CA-C	6.12	118.75	111.22
1	cy	87	HIS	CA-C-O	6.12	128.23	121.56
1	cB	124	ILE	CB-CA-C	6.12	122.50	111.36
1	cB	133	TRP	CB-CG-CD2	-6.12	118.23	126.80
1	cK	210	THR	CA-CB-OG1	6.12	118.78	109.60
1	1j	84	HIS	CA-C-N	6.12	126.47	119.92
1	1j	84	HIS	C-N-CA	6.12	126.47	119.92
1	dq	159	GLU	O-C-N	-6.12	114.14	121.12
1	dY	82	ARG	O-C-N	-6.12	115.63	122.12
1	e4	200	THR	N-CA-C	6.12	119.85	112.38
1	ea	141	ILE	CA-C-O	-6.12	114.68	121.17
1	ed	178	SER	N-CA-C	6.12	118.20	110.24
1	eC	179	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	eM	229	ARG	CG-CD-NE	-6.12	98.53	112.00
1	fY	87	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	b	77	ALA	CA-C-O	6.12	127.04	120.55
1	i	140	LYS	N-CA-CB	-6.12	101.12	110.12
1	L	26	VAL	N-CA-C	6.12	116.30	110.42
1	7	146	SER	O-C-N	-6.12	114.28	121.32
1	h3	3	VAL	CA-C-O	6.12	128.43	120.78
1	hj	184	TRP	CA-C-O	-6.12	114.06	120.55
1	hR	167	ARG	CA-C-O	6.12	127.25	120.82
1	hY	8	GLY	O-C-N	-6.12	116.13	122.68
1	ic	144	MET	N-CA-C	6.12	118.73	111.33
1	1Q	120	HIS	CB-CG-CD2	-6.12	123.24	131.20
1	iz	47	ALA	CA-C-O	-6.12	113.94	120.92
1	iF	49	PRO	N-CA-C	6.12	123.69	113.78
1	j1	92	GLU	CA-C-O	-6.12	113.42	120.03
1	jj	14	ALA	O-C-N	-6.12	115.81	122.79
1	1Y	92	GLU	O-C-N	-6.12	115.00	121.30
1	lr	188	THR	N-CA-CB	6.12	120.83	110.49
1	lx	10	MET	N-CA-C	6.12	123.84	110.80
1	ly	149	SER	CA-C-N	6.12	130.34	120.30
1	ly	149	SER	C-N-CA	6.12	130.34	120.30
1	lJ	167	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	32	168	PHE	CA-CB-CG	6.12	119.92	113.80
1	37	17	PRO	CA-C-O	6.12	125.90	118.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	152	ASP	CA-CB-CG	6.12	118.72	112.60
1	3D	103	ASP	CA-C-N	6.12	128.84	120.46
1	3D	103	ASP	C-N-CA	6.12	128.84	120.46
1	4F	80	TRP	CA-C-N	6.12	128.40	120.44
1	4F	80	TRP	C-N-CA	6.12	128.40	120.44
1	5o	89	GLY	CA-C-O	-6.12	116.52	122.46
1	7J	25	LYS	CA-C-N	6.12	128.27	120.56
1	7J	25	LYS	C-N-CA	6.12	128.27	120.56
1	8t	115	ILE	CA-C-N	6.12	126.91	119.99
1	8t	115	ILE	C-N-CA	6.12	126.91	119.99
1	8A	173	ARG	CA-C-N	6.12	128.98	120.29
1	8A	173	ARG	C-N-CA	6.12	128.98	120.29
1	9r	29	GLU	O-C-N	-6.12	114.82	122.35
1	al	192	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	aN	21	ASN	CA-CB-CG	-6.12	106.48	112.60
1	aR	183	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	bG	124	ILE	O-C-N	-6.12	114.12	121.10
1	bZ	23	TRP	N-CA-C	6.12	117.62	111.07
1	cQ	27	VAL	N-CA-CB	6.12	118.86	110.54
1	do	76	GLU	N-CA-C	6.12	118.92	111.82
1	dG	22	ALA	O-C-N	6.12	128.61	122.12
1	dL	141	ILE	CB-CA-C	-6.12	104.02	112.04
1	dN	105	ALA	CA-C-N	6.12	133.90	121.78
1	dN	105	ALA	C-N-CA	6.12	133.90	121.78
1	e9	37	ILE	CA-C-O	-6.12	114.59	118.69
1	ef	207	PRO	CA-C-N	6.12	132.58	122.73
1	ef	207	PRO	C-N-CA	6.12	132.58	122.73
1	eo	159	GLU	CA-C-N	6.12	126.44	119.83
1	eo	159	GLU	C-N-CA	6.12	126.44	119.83
1	eA	62	HIS	N-CA-C	6.12	119.62	111.30
1	eP	225	GLY	O-C-N	-6.12	115.68	122.47
1	fa	184	TRP	O-C-N	-6.12	115.06	122.22
1	fl	198	CYS	CA-CB-SG	-6.12	100.32	114.40
1	fB	176	GLN	CB-CG-CD	6.12	123.00	112.60
1	g1	178	SER	N-CA-C	6.12	117.94	110.41
1	f	120	HIS	CA-CB-CG	6.12	119.92	113.80
1	C	5	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	C	133	TRP	CA-C-N	6.12	128.27	120.56
1	C	133	TRP	C-N-CA	6.12	128.27	120.56
1	3	136	LEU	CA-C-N	6.12	126.89	120.03
1	3	136	LEU	C-N-CA	6.12	126.89	120.03
1	H	68	MET	O-C-N	6.12	128.37	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	132	ARG	NE-CZ-NH2	6.12	124.71	119.20
1	gh	230	VAL	CA-C-O	6.12	126.81	120.39
1	gi	112	GLN	N-CA-C	6.12	117.95	111.28
1	go	81	ASP	CB-CA-C	6.12	120.49	110.88
1	gp	63	GLN	CB-CA-C	6.12	120.48	110.88
1	gA	111	LEU	CA-C-N	6.12	128.80	120.54
1	gA	111	LEU	C-N-CA	6.12	128.80	120.54
1	gS	16	SER	CA-C-O	-6.12	113.68	119.80
1	gU	25	LYS	N-CA-C	6.12	117.62	111.07
1	gY	31	ALA	N-CA-C	-6.12	105.46	113.17
1	hb	189	LEU	N-CA-C	6.12	120.92	112.90
1	1I	44	SER	N-CA-C	6.12	119.78	112.93
1	hz	82	ARG	N-CA-C	6.12	117.95	111.28
1	hD	144	MET	O-C-N	6.12	128.60	122.12
1	ie	62	HIS	ND1-CG-CD2	6.12	112.22	106.10
1	ii	191	VAL	O-C-N	6.12	127.91	121.91
1	ip	194	ALA	N-CA-C	6.12	118.67	110.35
1	iQ	129	ILE	N-CA-CB	6.12	117.71	110.55
1	j7	22	ALA	N-CA-C	6.12	117.75	111.14
1	j8	175	GLU	O-C-N	-6.12	115.72	123.06
1	jn	50	GLN	CB-CA-C	-6.12	100.63	110.79
1	jq	84	HIS	CA-CB-CG	-6.12	107.68	113.80
1	ju	85	PRO	CA-C-N	6.12	129.68	120.75
1	ju	85	PRO	C-N-CA	6.12	129.68	120.75
1	ju	203	LYS	CA-C-N	6.12	128.48	120.28
1	ju	203	LYS	C-N-CA	6.12	128.48	120.28
1	1W	204	ALA	CA-C-N	6.12	130.99	122.79
1	1W	204	ALA	C-N-CA	6.12	130.99	122.79
1	k0	77	ALA	CA-C-O	6.12	127.45	120.90
1	k3	146	SER	CA-C-N	6.12	126.06	119.76
1	k3	146	SER	C-N-CA	6.12	126.06	119.76
1	kk	40	PHE	CA-CB-CG	-6.12	107.68	113.80
1	km	200	THR	CA-CB-OG1	6.12	118.78	109.60
1	kX	174	ALA	CA-C-N	6.12	129.40	120.71
1	kX	174	ALA	C-N-CA	6.12	129.40	120.71
1	li	34	PRO	N-CA-CB	-6.12	97.36	103.48
1	lo	195	ASN	CA-C-O	-6.12	113.78	120.69
1	lO	72	THR	N-CA-C	6.12	117.95	111.28
1	2d	90	PRO	N-CA-C	6.12	123.77	112.33
1	2j	16	SER	O-C-N	-6.12	114.58	121.43
1	2l	23	TRP	CA-C-N	6.12	128.27	120.56
1	2l	23	TRP	C-N-CA	6.12	128.27	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	82	ARG	N-CA-C	6.12	117.95	111.28
1	2G	61	GLY	N-CA-C	-6.12	103.00	112.85
1	2L	53	ASN	O-C-N	-6.12	115.63	122.12
1	2Q	118	MET	CB-CG-SD	6.12	131.06	112.70
1	2V	85	PRO	O-C-N	-6.12	115.39	122.85
1	2W	132	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	2Z	62	HIS	ND1-CG-CD2	6.12	112.22	106.10
1	30	110	THR	N-CA-CB	6.12	118.98	110.17
1	34	212	GLU	O-C-N	-6.12	115.64	122.12
1	36	33	SER	CA-C-N	6.12	125.80	119.56
1	36	33	SER	C-N-CA	6.12	125.80	119.56
1	3a	112	GLN	N-CA-C	6.12	118.73	111.33
1	3c	114	GLN	CA-C-O	6.12	127.25	120.82
1	3s	211	LEU	N-CA-CB	6.12	119.11	110.12
1	3O	24	VAL	N-CA-C	6.12	116.86	110.62
1	3O	185	MET	N-CA-C	-6.12	104.69	111.36
1	3Q	48	THR	CA-C-N	6.12	126.30	119.32
1	3Q	48	THR	C-N-CA	6.12	126.30	119.32
1	4l	78	ALA	CA-C-N	6.12	129.09	120.28
1	4l	78	ALA	C-N-CA	6.12	129.09	120.28
1	4s	200	THR	N-CA-CB	6.12	119.24	110.06
1	4D	217	ALA	CA-C-N	6.12	131.35	122.36
1	4D	217	ALA	C-N-CA	6.12	131.35	122.36
1	4U	72	THR	CA-C-N	6.12	128.49	120.60
1	4U	72	THR	C-N-CA	6.12	128.49	120.60
1	4X	113	GLU	CA-C-O	6.12	127.01	119.79
1	57	23	TRP	N-CA-C	6.12	118.45	111.11
1	5s	112	GLN	OE1-CD-NE2	6.12	128.72	122.60
1	5I	86	VAL	CA-C-O	6.12	128.23	121.13
1	5M	115	ILE	CA-C-O	-6.12	114.36	120.85
1	5V	39	MET	N-CA-C	6.12	118.48	111.02
1	5Z	94	GLY	N-CA-C	-6.12	106.48	115.72
1	60	27	VAL	CA-CB-CG1	-6.12	100.00	110.40
1	62	53	ASN	CA-CB-CG	-6.12	106.48	112.60
1	6f	192	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	6h	138	LEU	N-CA-C	6.12	117.62	111.07
1	6i	13	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	6p	160	PRO	CA-C-O	6.12	128.13	120.97
1	6z	64	ALA	CB-CA-C	-6.12	101.27	110.88
1	6C	88	ALA	CA-C-N	6.12	129.19	121.36
1	6C	88	ALA	C-N-CA	6.12	129.19	121.36
1	7c	107	THR	CA-CB-OG1	6.12	118.78	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	152	ASP	CA-CB-CG	-6.12	106.48	112.60
1	7I	5	ASN	N-CA-C	6.12	117.62	111.07
1	7K	10	MET	CA-C-N	6.12	131.64	122.58
1	7K	10	MET	C-N-CA	6.12	131.64	122.58
1	7O	37	ILE	N-CA-CB	-6.12	105.68	110.45
1	7Q	126	VAL	O-C-N	-6.12	115.89	121.89
1	7W	12	HIS	CA-CB-CG	6.12	119.92	113.80
1	82	50	GLN	N-CA-C	6.12	117.95	111.28
1	84	28	GLU	CA-C-N	6.12	128.40	120.44
1	84	28	GLU	C-N-CA	6.12	128.40	120.44
1	87	55	MET	CA-C-N	6.12	128.72	120.65
1	87	55	MET	C-N-CA	6.12	128.72	120.65
1	8a	87	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	8t	66	MET	N-CA-C	6.12	118.73	111.33
1	8F	156	GLY	CA-C-N	6.12	125.68	119.19
1	8F	156	GLY	C-N-CA	6.12	125.68	119.19
1	8N	57	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	8U	69	LEU	N-CA-C	6.12	118.45	111.11
1	98	4	GLN	CA-C-O	6.12	128.23	121.56
1	98	78	ALA	CB-CA-C	6.12	121.25	110.85
1	9b	195	ASN	CA-C-O	-6.12	113.81	120.17
1	9n	75	GLU	CA-C-O	6.12	127.01	119.97
1	9u	229	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	9K	230	VAL	N-CA-C	-6.12	98.89	108.86
1	ab	209	ALA	N-CA-C	6.12	117.94	110.41
1	ai	12	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	ap	84	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	aL	123	PRO	N-CA-CB	6.12	108.44	103.36
1	aQ	67	GLN	CB-CG-CD	6.12	123.00	112.60
1	bI	74	ASN	O-C-N	-6.12	115.77	122.07
1	cw	173	ARG	N-CA-C	6.12	118.03	111.36
1	cJ	188	THR	O-C-N	-6.12	115.28	122.32
1	cL	202	LEU	N-CA-C	6.12	118.73	111.33
1	d9	153	ILE	O-C-N	-6.12	114.92	122.57
1	dd	99	PRO	N-CA-CB	6.12	108.63	103.25
1	df	169	TYR	N-CA-C	6.12	117.95	111.28
1	dn	180	GLU	CA-C-N	6.12	129.11	120.42
1	dn	180	GLU	C-N-CA	6.12	129.11	120.42
1	ds	20	LEU	O-C-N	-6.12	115.48	122.09
1	1l	85	PRO	CB-CA-C	6.12	119.06	111.23
1	dB	154	ARG	NH1-CZ-NH2	6.12	127.25	119.30
1	dG	170	LYS	CA-C-N	6.12	128.76	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	170	LYS	C-N-CA	6.12	128.76	120.38
1	dZ	140	LYS	N-CA-C	6.12	117.95	111.28
1	e2	222	GLY	CA-C-N	6.12	131.48	121.87
1	e2	222	GLY	C-N-CA	6.12	131.48	121.87
1	e3	162	ARG	N-CA-C	6.12	117.95	111.28
1	e9	201	ILE	CA-C-N	6.12	128.39	120.44
1	e9	201	ILE	C-N-CA	6.12	128.39	120.44
1	ek	72	THR	O-C-N	-6.12	115.63	122.12
1	eG	43	LEU	N-CA-C	6.12	120.00	112.54
1	eT	178	SER	O-C-N	6.12	129.76	122.79
1	eX	197	ASP	CA-C-N	6.12	128.40	120.44
1	eX	197	ASP	C-N-CA	6.12	128.40	120.44
1	1w	226	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	fp	219	GLN	CG-CD-NE2	6.12	125.58	116.40
1	fA	121	ASN	O-C-N	-6.12	113.70	121.29
1	fE	54	THR	CA-C-O	-6.12	114.39	120.82
1	fH	12	HIS	N-CA-C	6.12	119.10	110.23
1	a	87	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	c	142	VAL	O-C-N	-6.12	115.69	121.87
1	z	114	GLN	N-CA-C	6.12	117.62	111.07
1	E	87	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	F	121	ASN	O-C-N	-6.12	112.98	121.12
1	F	221	VAL	N-CA-CB	-6.12	102.78	110.31
1	G	219	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	P	26	VAL	N-CA-C	6.12	116.78	110.36
1	h1	214	MET	CA-C-O	6.12	126.90	120.42
1	hk	84	HIS	CB-CG-ND1	-6.12	113.53	122.70
1	hJ	229	ARG	NE-CZ-NH2	-6.12	113.69	119.20
1	ie	208	ALA	CA-C-N	6.12	129.40	120.71
1	ie	208	ALA	C-N-CA	6.12	129.40	120.71
1	iw	207	PRO	O-C-N	-6.12	114.38	122.64
1	j9	41	SER	N-CA-CB	6.12	119.11	110.12
1	jh	63	GLN	CA-C-O	6.12	126.43	119.27
1	kj	66	MET	O-C-N	-6.12	115.18	122.15
1	kn	156	GLY	O-C-N	-6.12	115.65	121.77
1	kw	34	PRO	N-CA-C	6.12	121.79	113.84
1	kQ	37	ILE	CA-C-O	6.12	122.79	118.69
1	2e	48	THR	CA-C-N	6.12	127.49	119.84
1	2e	48	THR	C-N-CA	6.12	127.49	119.84
1	2v	62	HIS	CB-CG-ND1	-6.12	113.52	122.70
1	32	29	GLU	N-CA-C	6.12	118.03	111.36
1	3X	87	HIS	ND1-CE1-NE2	6.12	114.52	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	102	SER	N-CA-CB	6.12	119.11	110.12
1	4u	92	GLU	CA-C-N	6.12	127.49	119.84
1	4u	92	GLU	C-N-CA	6.12	127.49	119.84
1	4W	15	ILE	CA-C-O	6.12	127.96	120.74
1	4W	18	ARG	NE-CZ-NH2	6.12	124.71	119.20
1	5G	102	SER	CA-C-N	6.12	128.48	120.28
1	5G	102	SER	C-N-CA	6.12	128.48	120.28
1	5R	178	SER	CA-C-N	6.12	128.76	120.38
1	5R	178	SER	C-N-CA	6.12	128.76	120.38
1	5S	144	MET	CA-C-O	6.12	126.90	120.42
1	6F	58	THR	CA-C-O	6.12	126.72	119.56
1	6M	197	ASP	CA-CB-CG	-6.12	106.48	112.60
1	78	143	ARG	N-CA-C	6.12	118.73	111.33
1	7l	77	ALA	CB-CA-C	-6.12	100.45	110.85
1	7J	226	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	81	87	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
1	81	125	PRO	O-C-N	-6.12	114.61	122.44
1	88	205	LEU	CA-C-N	6.12	131.47	121.87
1	88	205	LEU	C-N-CA	6.12	131.47	121.87
1	8h	219	GLN	O-C-N	-6.12	115.29	122.81
1	9H	84	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	a0	21	ASN	CA-CB-CG	-6.12	106.48	112.60
1	a2	100	ARG	CA-C-N	6.12	126.77	119.98
1	a2	100	ARG	C-N-CA	6.12	126.77	119.98
1	aF	80	TRP	CA-C-N	6.12	128.48	120.28
1	aF	80	TRP	C-N-CA	6.12	128.48	120.28
1	b1	104	ILE	CA-C-N	6.12	128.48	120.28
1	b1	104	ILE	C-N-CA	6.12	128.48	120.28
1	b7	161	PHE	CA-CB-CG	-6.12	107.68	113.80
1	cm	228	ALA	CA-C-N	6.12	129.44	120.82
1	cm	228	ALA	C-N-CA	6.12	129.44	120.82
1	cy	163	ASP	CA-C-N	6.12	128.48	120.28
1	cy	163	ASP	C-N-CA	6.12	128.48	120.28
1	dA	212	GLU	CA-C-N	6.12	128.48	120.28
1	dA	212	GLU	C-N-CA	6.12	128.48	120.28
1	eS	145	TYR	CA-C-N	6.12	128.46	120.26
1	eS	145	TYR	C-N-CA	6.12	128.46	120.26
1	f8	9	GLN	OE1-CD-NE2	-6.12	116.48	122.60
1	fd	150	ILE	CA-C-N	6.12	131.08	120.68
1	fd	150	ILE	C-N-CA	6.12	131.08	120.68
1	g1	161	PHE	CB-CG-CD1	-6.12	110.30	120.70
1	g4	84	HIS	CE1-NE2-CD2	-6.12	102.88	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	173	ARG	CB-CA-C	6.12	120.56	110.90
1	r	200	THR	N-CA-CB	6.12	118.88	110.01
1	gi	120	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	h4	228	ALA	N-CA-C	6.12	117.95	111.28
1	hh	26	VAL	O-C-N	-6.12	115.92	121.91
1	hp	86	VAL	O-C-N	-6.12	115.72	122.69
1	hs	37	ILE	N-CA-CB	6.12	115.22	110.45
1	hN	139	ASN	CA-CB-CG	6.12	118.72	112.60
1	hQ	115	ILE	N-CA-C	6.12	116.86	110.62
1	hX	187	GLU	N-CA-C	6.12	117.94	111.28
1	i1	180	GLU	N-CA-C	6.12	117.94	111.28
1	ij	178	SER	N-CA-C	6.12	118.19	110.24
1	iV	68	MET	O-C-N	-6.12	115.18	122.15
1	jo	42	ALA	CA-C-O	6.12	126.90	120.42
1	jp	33	SER	CA-C-O	-6.12	114.45	120.26
1	jL	52	LEU	CA-C-N	6.12	128.76	120.38
1	jL	52	LEU	C-N-CA	6.12	128.76	120.38
1	jN	37	ILE	N-CA-C	6.12	122.09	108.88
1	jU	175	GLU	O-C-N	-6.12	115.35	122.87
1	k7	193	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	ka	2	ILE	CA-C-N	6.12	131.44	122.94
1	ka	2	ILE	C-N-CA	6.12	131.44	122.94
1	ke	37	ILE	N-CA-CB	6.12	119.77	111.21
1	kr	91	ILE	O-C-N	-6.12	116.45	122.99
1	kB	87	HIS	N-CA-CB	6.12	120.83	110.49
1	kE	21	ASN	CA-C-N	6.12	128.47	120.28
1	kE	21	ASN	C-N-CA	6.12	128.47	120.28
1	24	132	ARG	NE-CZ-NH1	6.12	127.61	121.50
1	kP	103	ASP	CA-C-N	6.12	128.84	120.46
1	kP	103	ASP	C-N-CA	6.12	128.84	120.46
1	kR	36	VAL	CA-C-N	6.12	125.22	120.33
1	kR	36	VAL	C-N-CA	6.12	125.22	120.33
1	l7	120	HIS	CA-CB-CG	-6.12	107.69	113.80
1	lf	137	GLY	CA-C-N	6.12	128.47	120.28
1	lf	137	GLY	C-N-CA	6.12	128.47	120.28
1	lg	199	LYS	N-CA-C	6.12	117.95	111.28
1	lG	44	SER	CA-C-O	-6.12	112.50	119.78
1	lK	183	ASN	CA-C-N	6.12	128.39	120.44
1	lK	183	ASN	C-N-CA	6.12	128.39	120.44
1	2y	97	ARG	NE-CZ-NH1	6.12	127.62	121.50
1	2M	92	GLU	CA-C-N	6.12	126.47	119.93
1	2M	92	GLU	C-N-CA	6.12	126.47	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2N	27	VAL	CB-CA-C	-6.12	103.78	112.22
1	3M	92	GLU	CA-C-O	-6.12	113.67	119.91
1	42	138	LEU	N-CA-C	6.12	118.74	111.71
1	47	39	MET	CA-C-N	6.12	128.76	120.38
1	47	39	MET	C-N-CA	6.12	128.76	120.38
1	4a	8	GLY	O-C-N	-6.12	114.75	122.70
1	4F	199	LYS	N-CA-C	6.12	117.95	111.28
1	59	15	ILE	N-CA-C	6.12	117.47	109.58
1	5p	87	HIS	CE1-NE2-CD2	-6.12	102.89	109.00
1	5r	140	LYS	N-CA-CB	6.12	119.11	110.12
1	5z	5	ASN	CA-C-O	6.12	127.69	120.66
1	5G	177	ALA	N-CA-C	6.12	118.22	110.33
1	5O	79	GLU	CA-C-N	6.12	128.72	120.65
1	5O	79	GLU	C-N-CA	6.12	128.72	120.65
1	5V	132	ARG	CD-NE-CZ	-6.12	115.84	124.40
1	6e	75	GLU	O-C-N	-6.12	115.77	122.07
1	6G	227	LYS	CA-C-N	6.12	128.79	120.54
1	6G	227	LYS	C-N-CA	6.12	128.79	120.54
1	6R	194	ALA	CA-C-N	6.12	128.89	120.39
1	6R	194	ALA	C-N-CA	6.12	128.89	120.39
1	6S	10	MET	N-CA-C	6.12	118.86	110.24
1	78	191	VAL	CA-C-O	6.12	125.77	119.35
1	7h	13	GLN	OE1-CD-NE2	6.12	128.72	122.60
1	7m	125	PRO	CA-C-O	-6.12	114.80	121.77
1	7V	36	VAL	O-C-N	-6.12	115.92	121.91
1	86	185	MET	CA-C-N	6.12	128.47	120.28
1	86	185	MET	C-N-CA	6.12	128.47	120.28
1	8B	18	ARG	CA-C-O	-6.12	114.07	120.55
1	8F	184	TRP	O-C-N	-6.12	115.77	122.07
1	8X	163	ASP	CA-CB-CG	6.12	118.72	112.60
1	90	202	LEU	N-CA-C	6.12	120.00	112.54
1	9h	229	ARG	CB-CA-C	-6.12	99.19	109.65
1	9y	199	LYS	CA-C-N	6.12	128.80	120.54
1	9y	199	LYS	C-N-CA	6.12	128.80	120.54
1	9B	120	HIS	CG-CD2-NE2	6.12	113.32	107.20
1	9C	128	GLU	N-CA-C	6.12	118.45	111.11
1	9H	54	THR	CA-C-O	6.12	127.03	120.55
1	9V	70	LYS	CA-C-N	6.12	128.47	120.28
1	9V	70	LYS	C-N-CA	6.12	128.47	120.28
1	9Y	184	TRP	CB-CG-CD2	-6.12	118.24	126.80
1	Z	10	MET	N-CA-C	6.12	119.21	110.10
1	14	161	PHE	CA-C-N	6.12	128.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14	161	PHE	C-N-CA	6.12	128.47	120.28
1	aU	85	PRO	N-CA-C	6.12	120.83	111.11
1	aV	58	THR	CB-CA-C	-6.12	97.53	110.31
1	b9	67	GLN	CB-CA-C	6.12	120.56	110.90
1	bg	104	ILE	O-C-N	-6.12	115.92	121.91
1	bn	76	GLU	CA-C-O	-6.12	114.07	120.55
1	bo	64	ALA	O-C-N	-6.12	115.64	122.12
1	bq	105	ALA	CA-C-N	6.12	130.82	120.91
1	bq	105	ALA	C-N-CA	6.12	130.82	120.91
1	bx	97	ARG	O-C-N	-6.12	114.45	122.59
1	bJ	62	HIS	N-CA-C	6.12	119.83	111.39
1	bM	67	GLN	CG-CD-NE2	6.12	125.57	116.40
1	bO	78	ALA	CA-C-N	6.12	128.47	120.28
1	bO	78	ALA	C-N-CA	6.12	128.47	120.28
1	bQ	39	MET	CA-C-N	6.12	128.76	120.38
1	bQ	39	MET	C-N-CA	6.12	128.76	120.38
1	bR	48	THR	O-C-N	-6.12	114.58	121.43
1	bS	13	GLN	CA-C-N	6.12	130.54	120.94
1	bS	13	GLN	C-N-CA	6.12	130.54	120.94
1	bV	74	ASN	OD1-CG-ND2	-6.12	116.48	122.60
1	1b	77	ALA	CA-C-N	6.12	128.39	120.44
1	1b	77	ALA	C-N-CA	6.12	128.39	120.44
1	cu	52	LEU	CA-C-O	-6.12	114.07	120.55
1	cB	173	ARG	N-CA-CB	6.12	119.21	110.16
1	d3	164	TYR	O-C-N	-6.12	115.77	122.07
1	d4	48	THR	N-CA-CB	6.12	116.83	109.74
1	db	211	LEU	CA-C-N	6.12	128.80	120.54
1	db	211	LEU	C-N-CA	6.12	128.80	120.54
1	dW	12	HIS	ND1-CE1-NE2	6.12	114.52	108.40
1	e3	207	PRO	N-CA-C	-6.12	106.70	114.35
1	eg	138	LEU	N-CA-CB	6.12	119.05	109.94
1	ex	101	GLY	CA-C-N	6.12	129.09	120.28
1	ex	101	GLY	C-N-CA	6.12	129.09	120.28
1	eC	179	GLN	N-CA-C	6.12	118.74	111.71
1	1s	84	HIS	CA-CB-CG	6.12	119.92	113.80
1	eG	1	PRO	CA-C-N	6.12	128.69	120.50
1	eG	1	PRO	C-N-CA	6.12	128.69	120.50
1	eK	121	ASN	O-C-N	-6.12	114.38	121.60
1	eM	24	VAL	CA-C-N	6.12	128.80	120.54
1	eM	24	VAL	C-N-CA	6.12	128.80	120.54
1	eO	138	LEU	CB-CA-C	-6.12	98.93	110.67
1	f0	230	VAL	CA-C-O	6.12	128.43	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fh	121	ASN	CB-CA-C	6.12	120.22	110.62
1	fi	129	ILE	N-CA-C	6.12	116.29	110.42
1	fJ	70	LYS	N-CA-C	6.12	117.94	111.28
1	fR	181	VAL	CB-CA-C	-6.12	103.88	112.14
1	fT	45	GLU	CB-CA-C	6.12	119.01	109.84
1	0	153	ILE	N-CA-C	6.12	116.05	107.37
1	d	33	SER	CB-CA-C	6.12	118.52	109.22
1	D	6	LEU	CA-C-N	6.12	129.39	120.71
1	D	6	LEU	C-N-CA	6.12	129.39	120.71
1	K	11	VAL	O-C-N	-6.12	116.00	123.09
1	L	4	GLN	CA-C-O	6.12	127.84	120.81
1	g9	121	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	gd	103	ASP	N-CA-C	6.11	117.94	111.28
1	gB	4	GLN	CB-CG-CD	6.11	122.99	112.60
1	1F	193	ASN	CA-CB-CG	-6.11	106.49	112.60
1	gV	226	HIS	CB-CG-CD2	-6.11	123.25	131.20
1	h2	170	LYS	CA-C-O	6.11	127.03	120.55
1	1J	64	ALA	O-C-N	-6.11	115.49	122.09
1	hs	133	TRP	CA-C-N	6.11	128.84	120.46
1	hs	133	TRP	C-N-CA	6.11	128.84	120.46
1	hw	226	HIS	O-C-N	-6.11	114.98	122.25
1	hN	128	GLU	O-C-N	-6.11	115.64	122.12
1	i1	39	MET	CG-SD-CE	-6.11	87.45	100.90
1	i8	87	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	iu	5	ASN	CA-CB-CG	-6.11	106.49	112.60
1	iv	141	ILE	CA-C-O	6.11	127.83	121.29
1	ix	197	ASP	CA-C-O	6.11	127.80	121.07
1	iG	21	ASN	CA-C-N	6.11	128.39	120.44
1	iG	21	ASN	C-N-CA	6.11	128.39	120.44
1	iH	148	THR	N-CA-CB	6.11	120.82	110.49
1	j1	163	ASP	CA-C-N	6.11	128.39	120.44
1	j1	163	ASP	C-N-CA	6.11	128.39	120.44
1	jg	175	GLU	CB-CA-C	6.11	119.86	109.53
1	jz	118	MET	O-C-N	-6.11	115.18	122.15
1	jz	204	ALA	CB-CA-C	-6.11	101.28	110.88
1	jR	99	PRO	N-CA-C	6.11	120.83	111.11
1	20	198	CYS	CA-C-N	6.11	129.60	120.31
1	20	198	CYS	C-N-CA	6.11	129.60	120.31
1	21	140	LYS	O-C-N	-6.11	115.64	122.12
1	kq	207	PRO	CB-CA-C	6.11	119.21	111.39
1	kK	124	ILE	O-C-N	-6.11	114.54	121.57
1	kX	203	LYS	CA-C-N	6.11	129.31	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kX	203	LYS	C-N-CA	6.11	129.31	120.38
1	lm	141	ILE	CA-C-N	6.11	128.49	120.60
1	lm	141	ILE	C-N-CA	6.11	128.49	120.60
1	lA	82	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	2l	203	LYS	CA-C-N	6.11	128.75	120.44
1	2l	203	LYS	C-N-CA	6.11	128.75	120.44
1	2D	165	VAL	N-CA-C	6.11	116.86	110.62
1	2X	61	GLY	CA-C-N	6.11	131.04	122.36
1	2X	61	GLY	C-N-CA	6.11	131.04	122.36
1	3e	167	ARG	CA-C-N	6.11	128.39	120.44
1	3e	167	ARG	C-N-CA	6.11	128.39	120.44
1	3L	133	TRP	N-CA-C	6.11	117.94	111.28
1	3Q	21	ASN	O-C-N	-6.11	115.64	122.12
1	3S	56	LEU	CA-C-N	6.11	128.47	120.28
1	3S	56	LEU	C-N-CA	6.11	128.47	120.28
1	49	135	ILE	CA-C-N	6.11	128.39	120.44
1	49	135	ILE	C-N-CA	6.11	128.39	120.44
1	4d	16	SER	O-C-N	-6.11	115.17	121.28
1	4d	68	MET	N-CA-C	6.11	117.61	111.07
1	4o	139	ASN	N-CA-C	6.11	117.61	111.07
1	4v	114	GLN	N-CA-C	6.11	117.94	111.28
1	4J	113	GLU	CA-C-O	6.11	126.75	119.60
1	4O	153	ILE	N-CA-CB	6.11	118.50	111.90
1	4Z	162	ARG	CA-C-N	6.11	128.75	120.38
1	4Z	162	ARG	C-N-CA	6.11	128.75	120.38
1	5b	189	LEU	N-CA-C	6.11	118.73	111.33
1	5g	28	GLU	N-CA-C	6.11	117.61	111.07
1	5i	202	LEU	O-C-N	-6.11	115.64	122.12
1	5j	145	TYR	O-C-N	-6.11	114.74	122.26
1	5w	206	GLY	O-C-N	-6.11	115.66	121.77
1	5E	120	HIS	N-CA-C	6.11	118.22	110.33
1	5I	12	HIS	O-C-N	-6.11	116.04	123.19
1	5L	117	TRP	O-C-N	-6.11	115.77	122.07
1	5X	178	SER	CA-C-O	-6.11	114.84	121.44
1	66	100	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	6d	160	PRO	CA-C-O	-6.11	114.31	121.95
1	6g	108	THR	N-CA-CB	6.11	122.33	111.69
1	6h	41	SER	CA-C-O	6.11	127.24	120.82
1	6u	110	THR	N-CA-CB	6.11	119.74	110.45
1	6w	126	VAL	CA-C-N	6.11	126.72	119.94
1	6w	126	VAL	C-N-CA	6.11	126.72	119.94
1	6J	129	ILE	CA-C-N	6.11	128.97	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6J	129	ILE	C-N-CA	6.11	128.97	120.29
1	7Q	21	ASN	CA-CB-CG	6.11	118.71	112.60
1	7X	159	GLU	O-C-N	-6.11	114.94	121.42
1	8w	194	ALA	N-CA-C	6.11	118.22	110.33
1	8I	50	GLN	CB-CG-CD	6.11	122.99	112.60
1	8T	178	SER	N-CA-CB	6.11	118.97	110.17
1	8U	35	GLU	O-C-N	-6.11	115.07	122.22
1	8W	78	ALA	N-CA-C	6.11	117.61	111.07
1	8Z	65	ALA	N-CA-C	6.11	117.94	111.28
1	8Z	92	GLU	CA-C-N	6.11	126.47	119.93
1	8Z	92	GLU	C-N-CA	6.11	126.47	119.93
1	91	37	ILE	N-CA-C	6.11	119.69	112.35
1	91	104	ILE	CA-C-O	6.11	126.85	120.25
1	9q	155	GLN	O-C-N	-6.11	116.25	123.22
1	9w	165	VAL	CA-C-N	6.11	128.47	120.28
1	9w	165	VAL	C-N-CA	6.11	128.47	120.28
1	9x	164	TYR	CA-C-N	6.11	128.49	120.60
1	9x	164	TYR	C-N-CA	6.11	128.49	120.60
1	9L	206	GLY	CA-C-N	6.11	127.48	119.84
1	9L	206	GLY	C-N-CA	6.11	127.48	119.84
1	9N	53	ASN	N-CA-C	6.11	117.61	111.07
1	9V	114	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	9Y	154	ARG	CA-C-N	6.11	129.44	120.82
1	9Y	154	ARG	C-N-CA	6.11	129.44	120.82
1	9Z	135	ILE	CA-C-N	6.11	128.47	120.28
1	9Z	135	ILE	C-N-CA	6.11	128.47	120.28
1	a2	176	GLN	N-CA-CB	-6.11	101.44	110.49
1	a3	67	GLN	N-CA-C	6.11	117.94	111.28
1	ai	11	VAL	CA-CB-CG2	6.11	120.79	110.40
1	ai	70	LYS	N-CA-C	6.11	118.73	111.33
1	ao	94	GLY	O-C-N	-6.11	114.75	122.70
1	aC	55	MET	N-CA-C	6.11	118.45	111.11
1	aS	87	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	aW	182	LYS	N-CA-C	6.11	118.73	111.33
1	15	97	ARG	NE-CZ-NH2	6.11	124.70	119.20
1	b2	186	THR	CA-C-O	6.11	127.03	120.55
1	bc	42	ALA	CA-C-N	6.11	130.93	120.72
1	bc	42	ALA	C-N-CA	6.11	130.93	120.72
1	bl	38	PRO	CB-CA-C	-6.11	103.19	112.11
1	bx	179	GLN	N-CA-C	6.11	119.57	111.75
1	bN	142	VAL	N-CA-C	6.11	116.86	110.62
1	c2	223	GLY	O-C-N	6.11	127.88	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	47	ALA	N-CA-C	6.11	119.61	109.46
1	cf	116	GLY	O-C-N	-6.11	116.32	122.19
1	cn	115	ILE	CA-C-N	6.11	126.72	120.00
1	cn	115	ILE	C-N-CA	6.11	126.72	120.00
1	cw	128	GLU	O-C-N	-6.11	115.07	122.22
1	cN	195	ASN	N-CA-C	6.11	117.40	109.64
1	cQ	16	SER	O-C-N	-6.11	114.58	121.43
1	cR	227	LYS	CA-C-N	6.11	129.98	120.75
1	cR	227	LYS	C-N-CA	6.11	129.98	120.75
1	di	156	GLY	CA-C-N	6.11	127.06	120.83
1	di	156	GLY	C-N-CA	6.11	127.06	120.83
1	dl	167	ARG	NH1-CZ-NH2	-6.11	111.35	119.30
1	1k	48	THR	N-CA-CB	6.11	116.83	109.74
1	1k	132	ARG	N-CA-C	6.11	118.73	111.33
1	du	41	SER	CA-C-O	6.11	127.00	120.70
1	dA	27	VAL	CA-C-N	6.11	128.79	120.54
1	dA	27	VAL	C-N-CA	6.11	128.79	120.54
1	dR	155	GLN	O-C-N	-6.11	116.88	123.42
1	dS	212	GLU	CA-C-N	6.11	128.47	120.28
1	dS	212	GLU	C-N-CA	6.11	128.47	120.28
1	e3	226	HIS	CA-CB-CG	6.11	119.91	113.80
1	e4	135	ILE	N-CA-CB	6.11	118.85	110.54
1	1r	21	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	eA	105	ALA	N-CA-C	6.11	118.74	111.71
1	eA	147	PRO	CA-C-N	6.11	133.22	121.54
1	eA	147	PRO	C-N-CA	6.11	133.22	121.54
1	eU	201	ILE	CB-CA-C	-6.11	104.14	111.97
1	f4	81	ASP	CA-C-N	6.11	128.47	120.28
1	f4	81	ASP	C-N-CA	6.11	128.47	120.28
1	fc	28	GLU	CA-C-N	6.11	128.97	120.29
1	fc	28	GLU	C-N-CA	6.11	128.97	120.29
1	fq	116	GLY	CA-C-N	6.11	128.39	120.44
1	fq	116	GLY	C-N-CA	6.11	128.39	120.44
1	fr	225	GLY	CA-C-N	6.11	129.39	120.71
1	fr	225	GLY	C-N-CA	6.11	129.39	120.71
1	fz	117	TRP	CA-C-N	6.11	128.97	120.29
1	fz	117	TRP	C-N-CA	6.11	128.97	120.29
1	fB	161	PHE	N-CA-C	6.11	117.94	111.28
1	fK	154	ARG	CD-NE-CZ	-6.11	115.84	124.40
1	g1	141	ILE	N-CA-C	6.11	116.29	110.42
1	g4	2	ILE	N-CA-C	-6.11	100.90	109.21
1	0	69	LEU	CA-C-O	-6.11	113.94	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	133	TRP	CA-C-N	6.11	128.26	120.56
1	d	133	TRP	C-N-CA	6.11	128.26	120.56
1	g	72	THR	CA-C-O	6.11	127.44	120.90
1	g	215	MET	O-C-N	-6.11	115.18	122.15
1	m	108	THR	N-CA-C	6.11	119.78	112.93
1	hp	217	ALA	CA-C-N	6.11	133.21	121.54
1	hp	217	ALA	C-N-CA	6.11	133.21	121.54
1	id	87	HIS	CA-C-N	6.11	128.97	120.29
1	id	87	HIS	C-N-CA	6.11	128.97	120.29
1	iU	229	ARG	O-C-N	-6.11	116.42	123.33
1	1V	42	ALA	CA-C-N	6.11	130.93	120.72
1	1V	42	ALA	C-N-CA	6.11	130.93	120.72
1	ju	133	TRP	N-CA-CB	6.11	119.10	110.12
1	k3	110	THR	CA-CB-CG2	-6.11	100.11	110.50
1	ke	221	VAL	N-CA-C	-6.11	99.67	108.53
1	kK	82	ARG	CA-C-O	6.11	127.03	120.55
1	2z	63	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	3B	61	GLY	CA-C-O	-6.11	114.94	122.82
1	48	220	GLY	O-C-N	-6.11	114.75	122.70
1	5z	180	GLU	N-CA-C	6.11	123.82	110.80
1	5D	62	HIS	N-CA-C	6.11	119.61	111.30
1	5V	54	THR	O-C-N	-6.11	115.73	122.09
1	5W	71	GLU	CA-C-N	6.11	128.79	120.54
1	5W	71	GLU	C-N-CA	6.11	128.79	120.54
1	6f	215	MET	N-CA-C	6.11	117.94	111.28
1	6M	203	LYS	N-CA-C	6.11	118.74	111.71
1	7d	210	THR	CA-C-O	6.11	129.02	121.81
1	7g	20	LEU	CA-C-N	6.11	128.47	120.28
1	7g	20	LEU	C-N-CA	6.11	128.47	120.28
1	7W	51	ASP	CA-C-N	6.11	128.97	120.29
1	7W	51	ASP	C-N-CA	6.11	128.97	120.29
1	80	185	MET	N-CA-C	6.11	117.94	111.28
1	86	30	LYS	N-CA-C	6.11	121.67	113.72
1	8b	192	GLN	CB-CA-C	-6.11	98.94	110.67
1	8t	9	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	8z	177	ALA	N-CA-C	6.11	118.66	110.35
1	8I	143	ARG	O-C-N	-6.11	115.64	122.12
1	91	22	ALA	N-CA-C	6.11	117.94	111.28
1	9A	36	VAL	CA-C-N	6.11	126.30	120.43
1	9A	36	VAL	C-N-CA	6.11	126.30	120.43
1	9C	196	PRO	N-CA-C	6.11	123.68	113.78
1	9V	77	ALA	N-CA-C	6.11	117.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b3	196	PRO	CA-C-N	6.11	128.97	120.29
1	b3	196	PRO	C-N-CA	6.11	128.97	120.29
1	c3	168	PHE	CA-CB-CG	6.11	119.91	113.80
1	cI	67	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	d0	191	VAL	N-CA-C	6.11	116.85	110.62
1	dc	155	GLN	N-CA-C	6.11	119.12	110.50
1	dp	197	ASP	CA-CB-CG	6.11	118.71	112.60
1	dT	48	THR	O-C-N	-6.11	112.46	120.96
1	dV	172	LEU	N-CA-C	6.11	120.00	112.54
1	eM	210	THR	O-C-N	-6.11	114.46	122.59
1	f4	174	ALA	CA-C-O	6.11	127.03	120.55
1	fl	66	MET	O-C-N	-6.11	115.64	122.12
1	w	167	ARG	NE-CZ-NH2	-6.11	113.70	119.20
1	D	121	ASN	CA-CB-CG	-6.11	106.49	112.60
1	F	136	LEU	O-C-N	-6.11	115.64	122.12
1	gd	229	ARG	N-CA-C	6.11	123.81	110.80
1	gi	140	LYS	CA-C-N	6.11	128.83	120.46
1	gi	140	LYS	C-N-CA	6.11	128.83	120.46
1	gp	36	VAL	CB-CA-C	6.11	120.39	112.14
1	gs	187	GLU	CA-C-N	6.11	128.47	120.28
1	gs	187	GLU	C-N-CA	6.11	128.47	120.28
1	gx	47	ALA	O-C-N	-6.11	115.44	122.89
1	gH	56	LEU	N-CA-C	6.11	118.91	111.82
1	hv	213	GLU	CA-C-O	6.11	126.89	119.38
1	1K	152	ASP	O-C-N	-6.11	114.51	122.39
1	hF	190	LEU	N-CA-CB	-6.11	100.84	109.94
1	hS	14	ALA	CA-C-N	6.11	128.69	120.50
1	hS	14	ALA	C-N-CA	6.11	128.69	120.50
1	1N	87	HIS	CA-CB-CG	6.11	119.91	113.80
1	ie	39	MET	CA-C-N	6.11	128.97	120.29
1	ie	39	MET	C-N-CA	6.11	128.97	120.29
1	ij	13	GLN	N-CA-CB	6.11	121.46	110.83
1	iz	93	PRO	CA-C-O	-6.11	114.47	121.56
1	iz	97	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	iA	134	ILE	N-CA-C	6.11	116.89	110.72
1	iB	42	ALA	O-C-N	6.11	128.60	122.12
1	iG	142	VAL	O-C-N	-6.11	115.92	121.91
1	iS	10	MET	CA-C-O	-6.11	114.39	122.03
1	iT	122	PRO	CA-C-N	6.11	126.13	119.90
1	iT	122	PRO	C-N-CA	6.11	126.13	119.90
1	j4	69	LEU	N-CA-C	6.11	117.94	111.28
1	je	181	VAL	CA-C-O	6.11	127.83	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	59	VAL	CB-CA-C	-6.11	102.20	112.16
1	jK	59	VAL	N-CA-C	6.11	116.29	110.42
1	jS	56	LEU	N-CA-C	6.11	117.61	111.07
1	jY	50	GLN	N-CA-C	6.11	117.61	111.07
1	1Z	207	PRO	N-CD-CG	6.11	112.36	103.20
1	k0	159	GLU	CA-C-N	6.11	126.13	119.90
1	k0	159	GLU	C-N-CA	6.11	126.13	119.90
1	k2	24	VAL	N-CA-C	6.11	116.85	110.62
1	k3	85	PRO	CA-C-N	6.11	128.69	120.50
1	k3	85	PRO	C-N-CA	6.11	128.69	120.50
1	k7	37	ILE	O-C-N	-6.11	116.51	120.42
1	kg	121	ASN	O-C-N	-6.11	113.58	121.10
1	kn	63	GLN	CA-C-N	6.11	128.38	120.44
1	kn	63	GLN	C-N-CA	6.11	128.38	120.44
1	kz	68	MET	CA-C-N	6.11	128.47	120.28
1	kz	68	MET	C-N-CA	6.11	128.47	120.28
1	kJ	2	ILE	CA-C-N	6.11	131.43	122.94
1	kJ	2	ILE	C-N-CA	6.11	131.43	122.94
1	kJ	228	ALA	O-C-N	-6.11	115.25	122.58
1	kR	136	LEU	CA-C-N	6.11	128.04	120.34
1	kR	136	LEU	C-N-CA	6.11	128.04	120.34
1	26	167	ARG	NE-CZ-NH2	6.11	124.70	119.20
1	le	138	LEU	CA-C-N	6.11	129.60	120.31
1	le	138	LEU	C-N-CA	6.11	129.60	120.31
1	lA	130	TYR	CB-CG-CD1	6.11	129.97	120.80
1	lG	112	GLN	CA-C-O	6.11	127.03	120.55
1	lM	63	GLN	N-CA-C	6.11	117.94	111.28
1	lO	189	LEU	CA-C-N	6.11	128.79	120.54
1	lO	189	LEU	C-N-CA	6.11	128.79	120.54
1	2c	110	THR	CA-C-N	6.11	128.47	120.28
1	2c	110	THR	C-N-CA	6.11	128.47	120.28
1	2k	167	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	2G	121	ASN	N-CA-CB	-6.11	99.66	110.05
1	2U	115	ILE	O-C-N	-6.11	115.65	121.94
1	37	181	VAL	CA-C-N	6.11	128.47	120.28
1	37	181	VAL	C-N-CA	6.11	128.47	120.28
1	3n	41	SER	O-C-N	-6.11	115.19	122.15
1	3x	191	VAL	CB-CA-C	-6.11	104.02	112.02
1	3G	100	ARG	NE-CZ-NH2	6.11	124.70	119.20
1	4j	7	GLN	CA-C-N	6.11	130.30	121.44
1	4j	7	GLN	C-N-CA	6.11	130.30	121.44
1	4D	30	LYS	CA-C-N	6.11	128.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	30	LYS	C-N-CA	6.11	128.38	120.44
1	4L	69	LEU	N-CA-C	6.11	117.61	111.07
1	4M	221	VAL	O-C-N	-6.11	116.83	123.18
1	5w	80	TRP	CD2-CE3-CZ3	6.11	126.54	118.60
1	5V	132	ARG	NH1-CZ-NH2	-6.11	111.36	119.30
1	6d	149	SER	CA-C-N	6.11	130.78	120.64
1	6d	149	SER	C-N-CA	6.11	130.78	120.64
1	6j	44	SER	O-C-N	-6.11	114.55	122.37
1	6o	24	VAL	CA-C-O	-6.11	114.27	121.05
1	6r	79	GLU	N-CA-C	6.11	117.94	111.28
1	6t	113	GLU	N-CA-C	6.11	117.94	111.28
1	6A	3	VAL	O-C-N	-6.11	116.11	123.02
1	6V	57	ASN	N-CA-CB	-6.11	101.61	110.47
1	6W	176	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	7g	35	GLU	CA-C-N	6.11	128.83	120.46
1	7g	35	GLU	C-N-CA	6.11	128.83	120.46
1	7r	183	ASN	CB-CA-C	-6.11	100.65	110.79
1	7s	148	THR	O-C-N	-6.11	116.28	123.25
1	7v	140	LYS	CG-CD-CE	6.11	125.35	111.30
1	7K	131	LYS	O-C-N	-6.11	115.64	122.12
1	7L	179	GLN	O-C-N	-6.11	115.07	122.22
1	7V	84	HIS	CB-CA-C	-6.11	100.03	109.62
1	7Y	30	LYS	N-CA-C	6.11	121.56	112.94
1	83	193	ASN	O-C-N	-6.11	113.73	122.41
1	8x	52	LEU	N-CA-C	-6.11	105.31	112.89
1	9h	118	MET	CA-C-O	6.11	127.00	119.97
1	9u	67	GLN	O-C-N	6.11	128.60	122.12
1	9y	17	PRO	CA-C-N	6.11	128.75	120.38
1	9y	17	PRO	C-N-CA	6.11	128.75	120.38
1	9G	106	GLY	O-C-N	-6.11	115.30	122.45
1	9M	36	VAL	O-C-N	6.11	127.80	121.87
1	9M	74	ASN	CA-C-N	6.11	128.47	120.28
1	9M	74	ASN	C-N-CA	6.11	128.47	120.28
1	9Q	112	GLN	N-CA-C	6.11	118.72	111.33
1	ai	134	ILE	N-CA-C	6.11	116.29	110.42
1	aj	172	LEU	N-CA-C	6.11	117.94	111.28
1	al	195	ASN	CA-C-N	6.11	125.59	119.24
1	al	195	ASN	C-N-CA	6.11	125.59	119.24
1	12	37	ILE	CA-C-N	6.11	125.51	118.85
1	12	37	ILE	C-N-CA	6.11	125.51	118.85
1	aZ	187	GLU	CA-C-O	6.11	127.00	119.79
1	18	130	TYR	CA-C-N	6.11	128.79	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18	130	TYR	C-N-CA	6.11	128.79	120.54
1	bv	137	GLY	CA-C-N	6.11	128.47	120.28
1	bv	137	GLY	C-N-CA	6.11	128.47	120.28
1	cf	226	HIS	CG-CD2-NE2	6.11	113.31	107.20
1	cN	184	TRP	CB-CG-CD2	6.11	135.36	126.80
1	di	203	LYS	CA-C-O	6.11	127.03	120.55
1	1k	176	GLN	N-CA-C	-6.11	106.09	112.93
1	dp	101	GLY	O-C-N	-6.11	116.08	122.13
1	dx	213	GLU	CA-C-N	6.11	128.47	120.28
1	dx	213	GLU	C-N-CA	6.11	128.47	120.28
1	dA	25	LYS	CA-C-O	-6.11	113.19	120.10
1	dA	120	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	dV	133	TRP	N-CA-C	6.11	118.91	111.82
1	ef	80	TRP	O-C-N	-6.11	115.19	122.15
1	1q	182	LYS	N-CA-CB	6.11	119.10	110.12
1	es	167	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	1s	110	THR	CA-CB-OG1	6.11	118.77	109.60
1	eI	80	TRP	CA-C-N	6.11	128.47	120.28
1	eI	80	TRP	C-N-CA	6.11	128.47	120.28
1	eM	105	ALA	N-CA-CB	6.11	119.87	110.46
1	eR	187	GLU	CA-C-N	6.11	129.71	122.44
1	eR	187	GLU	C-N-CA	6.11	129.71	122.44
1	eU	5	ASN	CB-CG-ND2	6.11	125.56	116.40
1	f1	182	LYS	N-CA-C	6.11	118.72	111.33
1	f9	134	ILE	N-CA-C	6.11	116.85	110.62
1	fu	127	GLY	N-CA-C	6.11	119.59	112.50
1	fE	200	THR	CA-C-N	6.11	128.26	120.56
1	fE	200	THR	C-N-CA	6.11	128.26	120.56
1	fF	159	GLU	CA-C-N	6.11	127.48	119.84
1	fF	159	GLU	C-N-CA	6.11	127.48	119.84
1	fM	178	SER	O-C-N	-6.11	114.46	122.59
1	k	84	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	s	13	GLN	O-C-N	-6.11	115.94	123.33
1	C	170	LYS	N-CA-C	6.11	118.44	111.11
1	6	39	MET	N-CA-CB	6.11	119.10	110.12
1	gc	72	THR	O-C-N	-6.11	115.64	122.12
1	go	149	SER	O-C-N	-6.11	116.07	123.16
1	gQ	183	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	gU	64	ALA	O-C-N	-6.11	115.19	122.15
1	hx	111	LEU	N-CA-C	6.11	117.94	111.28
1	hI	73	ILE	N-CA-C	6.11	116.85	110.62
1	ib	189	LEU	O-C-N	-6.11	115.64	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	71	GLU	CB-CG-CD	6.11	122.99	112.60
1	j0	41	SER	N-CA-C	6.11	117.94	111.28
1	jG	23	TRP	CA-C-N	6.11	129.14	120.53
1	jG	23	TRP	C-N-CA	6.11	129.14	120.53
1	kG	139	ASN	CA-CB-CG	-6.11	106.49	112.60
1	kQ	123	PRO	N-CA-C	6.11	120.92	111.21
1	kU	11	VAL	O-C-N	-6.11	116.56	123.10
1	lb	40	PHE	CA-C-O	-6.11	114.41	120.82
1	ly	2	ILE	CA-C-N	6.11	128.75	120.63
1	ly	2	ILE	C-N-CA	6.11	128.75	120.63
1	lL	148	THR	N-CA-C	6.11	118.66	110.35
1	2j	226	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	2A	87	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	2X	180	GLU	CA-CB-CG	-6.11	101.88	114.10
1	3S	133	TRP	CA-C-N	6.11	128.38	120.56
1	3S	133	TRP	C-N-CA	6.11	128.38	120.56
1	4M	57	ASN	N-CA-C	6.11	117.94	111.28
1	59	84	HIS	O-C-N	-6.11	114.81	121.53
1	65	45	GLU	CA-C-N	6.11	133.38	121.41
1	65	45	GLU	C-N-CA	6.11	133.38	121.41
1	6E	191	VAL	CA-C-O	6.11	127.64	121.17
1	6N	84	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	6O	79	GLU	N-CA-C	6.11	117.94	111.28
1	6Y	68	MET	N-CA-C	6.11	118.02	111.36
1	7v	173	ARG	NE-CZ-NH2	6.11	124.70	119.20
1	7P	164	TYR	CB-CA-C	6.11	121.23	110.85
1	84	135	ILE	N-CA-C	6.11	116.28	110.42
1	87	4	GLN	OE1-CD-NE2	6.11	128.71	122.60
1	8H	120	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	9l	155	GLN	CG-CD-NE2	6.11	125.56	116.40
1	9n	206	GLY	O-C-N	-6.11	115.66	121.77
1	9v	164	TYR	N-CA-CB	6.11	119.63	110.22
1	a5	42	ALA	CA-C-N	6.11	128.96	120.29
1	a5	42	ALA	C-N-CA	6.11	128.96	120.29
1	ah	9	GLN	N-CA-C	6.11	123.81	110.80
1	au	126	VAL	N-CA-C	6.11	116.85	110.62
1	14	125	PRO	O-C-N	-6.11	113.44	122.12
1	aO	62	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	b2	144	MET	N-CA-C	6.11	118.02	111.36
1	bc	224	PRO	CA-C-O	-6.11	114.86	121.27
1	bp	185	MET	N-CA-C	6.11	117.94	111.28
1	bx	87	HIS	ND1-CE1-NE2	6.11	114.51	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bF	63	GLN	CB-CA-C	6.11	121.93	110.63
1	1c	6	LEU	CA-C-O	-6.11	113.94	120.42
1	cA	88	ALA	N-CA-CB	-6.11	100.90	110.98
1	cX	156	GLY	CA-C-N	6.11	125.67	119.19
1	cX	156	GLY	C-N-CA	6.11	125.67	119.19
1	ds	176	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	dw	61	GLY	O-C-N	-6.11	114.11	123.03
1	eL	131	LYS	CA-C-O	-6.11	113.36	120.20
1	eU	184	TRP	O-C-N	-6.11	115.64	122.12
1	eV	132	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	ff	100	ARG	NE-CZ-NH1	6.11	127.61	121.50
1	fV	36	VAL	CA-C-N	6.11	125.22	120.33
1	fV	36	VAL	C-N-CA	6.11	125.22	120.33
1	c	169	TYR	N-CA-C	6.11	118.02	111.36
1	f	129	ILE	N-CA-C	6.11	116.85	110.62
1	g	185	MET	CA-C-O	6.11	127.00	119.97
1	O	119	THR	CA-CB-OG1	6.11	118.76	109.60
1	1C	84	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	gi	205	LEU	N-CA-C	6.11	118.18	110.24
1	gK	75	GLU	N-CA-C	6.11	117.61	111.07
1	gQ	160	PRO	CB-CA-C	6.11	119.36	110.63
1	h8	97	ARG	CA-C-O	-6.11	114.79	121.87
1	1I	48	THR	CA-C-N	6.11	126.00	119.28
1	1I	48	THR	C-N-CA	6.11	126.00	119.28
1	hl	87	HIS	CB-CG-CD2	6.11	139.14	131.20
1	1J	77	ALA	CA-C-N	6.11	128.46	120.28
1	1J	77	ALA	C-N-CA	6.11	128.46	120.28
1	1K	210	THR	O-C-N	-6.11	116.06	122.96
1	hF	53	ASN	CA-C-O	6.11	127.02	120.55
1	hT	61	GLY	CA-C-N	6.11	133.21	121.54
1	hT	61	GLY	C-N-CA	6.11	133.21	121.54
1	iA	26	VAL	N-CA-C	6.11	116.85	110.62
1	iT	16	SER	CA-C-O	-6.11	114.00	120.23
1	iW	129	ILE	CB-CA-C	6.11	119.79	111.97
1	iW	132	ARG	O-C-N	-6.11	115.65	122.12
1	jg	41	SER	N-CA-C	6.11	118.73	111.71
1	jl	71	GLU	CA-C-O	6.11	127.23	120.82
1	jl	124	ILE	O-C-N	-6.11	116.70	121.46
1	jD	70	LYS	N-CA-CB	6.11	119.75	110.28
1	jD	119	THR	CA-C-O	6.11	126.59	119.32
1	jH	101	GLY	O-C-N	-6.11	116.08	122.13
1	kk	190	LEU	CA-C-N	6.11	128.26	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kk	190	LEU	C-N-CA	6.11	128.26	120.56
1	kx	63	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	kF	171	THR	CA-C-O	6.11	126.89	120.42
1	24	64	ALA	N-CA-C	6.11	117.61	111.07
1	24	81	ASP	CA-CB-CG	6.11	118.71	112.60
1	l2	104	ILE	N-CA-C	-6.11	104.06	113.16
1	ll	50	GLN	N-CA-CB	6.11	118.87	110.01
1	lo	15	ILE	N-CA-CB	6.11	117.19	110.53
1	ls	105	ALA	CA-C-N	6.11	131.38	122.46
1	ls	105	ALA	C-N-CA	6.11	131.38	122.46
1	lt	40	PHE	CA-CB-CG	6.11	119.91	113.80
1	lG	53	ASN	N-CA-C	6.11	117.94	111.28
1	lI	35	GLU	O-C-N	-6.11	114.76	122.27
1	lN	96	MET	CG-SD-CE	-6.11	87.47	100.90
1	2d	179	GLN	OE1-CD-NE2	6.11	128.71	122.60
1	2r	148	THR	CA-CB-OG1	6.11	118.76	109.60
1	2w	196	PRO	CA-C-N	6.11	128.38	120.44
1	2w	196	PRO	C-N-CA	6.11	128.38	120.44
1	2K	62	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	30	25	LYS	O-C-N	-6.11	115.65	122.12
1	38	112	GLN	CB-CA-C	-6.11	99.33	110.63
1	3c	42	ALA	N-CA-C	6.11	117.94	111.28
1	3p	211	LEU	N-CA-C	6.11	117.94	111.28
1	3q	173	ARG	NE-CZ-NH2	6.11	124.70	119.20
1	3Q	169	TYR	N-CA-C	6.11	117.94	111.28
1	4C	39	MET	CB-CA-C	-6.11	100.47	110.85
1	4I	165	VAL	CA-C-N	6.11	128.46	120.28
1	4I	165	VAL	C-N-CA	6.11	128.46	120.28
1	4O	31	ALA	O-C-N	-6.11	115.78	122.07
1	5s	24	VAL	N-CA-C	6.11	117.58	110.62
1	5A	126	VAL	N-CA-C	6.11	116.85	110.62
1	5A	185	MET	N-CA-C	6.11	117.60	111.07
1	5V	206	GLY	O-C-N	-6.11	115.66	121.77
1	6U	119	THR	N-CA-CB	6.11	120.20	110.73
1	6Y	67	GLN	CG-CD-NE2	6.11	125.56	116.40
1	7r	143	ARG	CB-CA-C	-6.11	100.65	110.79
1	7u	189	LEU	N-CA-CB	-6.11	100.81	110.22
1	7M	121	ASN	N-CA-C	6.11	120.43	107.91
1	85	20	LEU	N-CA-C	6.11	117.61	111.07
1	8s	84	HIS	N-CA-C	6.11	117.34	109.65
1	8L	83	LEU	N-CA-C	6.11	117.61	111.07
1	8N	35	GLU	N-CA-C	6.11	119.57	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	160	PRO	CA-C-N	6.11	128.46	120.28
1	8S	160	PRO	C-N-CA	6.11	128.46	120.28
1	98	7	GLN	CA-C-O	-6.11	114.36	120.90
1	9h	194	ALA	O-C-N	-6.11	116.22	123.06
1	9j	203	LYS	CA-C-N	6.11	128.47	120.28
1	9j	203	LYS	C-N-CA	6.11	128.47	120.28
1	9A	137	GLY	CA-C-N	6.11	128.46	120.28
1	9A	137	GLY	C-N-CA	6.11	128.46	120.28
1	9B	164	TYR	N-CA-C	6.11	117.94	111.28
1	9D	4	GLN	CG-CD-NE2	6.11	125.56	116.40
1	9F	102	SER	O-C-N	-6.11	115.08	122.22
1	9I	33	SER	N-CA-C	6.11	117.36	109.72
1	9U	200	THR	CA-C-O	6.11	126.89	120.42
1	ag	70	LYS	N-CA-C	6.11	117.94	111.28
1	aq	214	MET	N-CA-C	6.11	117.94	111.28
1	aJ	114	GLN	OE1-CD-NE2	-6.11	116.49	122.60
1	bj	181	VAL	CA-C-N	6.11	128.46	120.28
1	bj	181	VAL	C-N-CA	6.11	128.46	120.28
1	bl	163	ASP	N-CA-CB	-6.11	101.14	110.12
1	bq	176	GLN	CA-C-N	6.11	129.51	120.90
1	bq	176	GLN	C-N-CA	6.11	129.51	120.90
1	bv	153	ILE	O-C-N	-6.11	116.01	122.67
1	bM	193	ASN	O-C-N	-6.11	114.71	122.34
1	c1	98	GLU	CA-C-O	-6.11	115.06	120.19
1	ck	102	SER	CA-C-N	6.11	128.78	120.54
1	ck	102	SER	C-N-CA	6.11	128.78	120.54
1	cl	200	THR	CA-C-O	6.11	127.02	120.55
1	cq	220	GLY	N-CA-C	-6.11	106.34	114.95
1	cr	185	MET	CG-SD-CE	-6.11	87.47	100.90
1	cB	68	MET	CA-C-N	6.11	128.38	120.44
1	cB	68	MET	C-N-CA	6.11	128.38	120.44
1	cE	19	THR	CA-C-N	6.11	128.96	120.29
1	cE	19	THR	C-N-CA	6.11	128.96	120.29
1	cF	151	LEU	CA-C-O	-6.11	114.08	120.55
1	d2	117	TRP	CD2-CE2-CZ2	-6.11	116.29	122.40
1	dj	34	PRO	CA-C-N	6.11	130.92	120.72
1	dj	34	PRO	C-N-CA	6.11	130.92	120.72
1	dx	144	MET	CB-CA-C	6.11	121.23	110.85
1	dz	167	ARG	N-CA-C	6.11	117.94	111.28
1	dL	166	ASP	CB-CA-C	6.11	120.55	110.90
1	eb	109	SER	O-C-N	-6.11	115.45	123.21
1	eg	200	THR	O-C-N	-6.11	115.74	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	es	166	ASP	N-CA-CB	-6.11	101.15	110.01
1	ex	92	GLU	N-CA-C	6.11	123.31	109.81
1	eH	135	ILE	N-CA-CB	6.11	118.85	110.54
1	eT	184	TRP	CB-CG-CD2	6.11	135.35	126.80
1	eZ	117	TRP	O-C-N	-6.11	115.65	122.12
1	ff	49	PRO	CA-C-N	6.11	128.47	120.28
1	ff	49	PRO	C-N-CA	6.11	128.47	120.28
1	fq	7	GLN	CA-C-O	6.11	126.82	119.43
1	fs	99	PRO	N-CA-CB	-6.11	97.88	103.25
1	fB	87	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	1y	133	TRP	CE2-CD2-CE3	6.11	124.91	118.80
1	fK	68	MET	O-C-N	-6.11	115.65	122.12
1	m	35	GLU	CB-CG-CD	6.11	122.98	112.60
1	r	67	GLN	N-CA-C	6.11	118.91	111.82
1	2	166	ASP	CA-C-N	6.11	128.46	120.28
1	2	166	ASP	C-N-CA	6.11	128.46	120.28
1	z	39	MET	CG-SD-CE	-6.11	87.46	100.90
1	3	98	GLU	CA-C-N	6.11	126.43	119.83
1	3	98	GLU	C-N-CA	6.11	126.43	119.83
1	H	191	VAL	O-C-N	-6.11	115.93	121.91
1	8	34	PRO	CA-C-N	6.11	131.83	121.14
1	8	34	PRO	C-N-CA	6.11	131.83	121.14
1	gf	114	GLN	N-CA-C	6.11	117.94	111.28
1	h1	183	ASN	OD1-CG-ND2	-6.11	116.50	122.60
1	1H	200	THR	CA-C-N	6.11	128.82	120.46
1	1H	200	THR	C-N-CA	6.11	128.82	120.46
1	1I	138	LEU	CA-C-N	6.11	128.96	120.29
1	1I	138	LEU	C-N-CA	6.11	128.96	120.29
1	hi	59	VAL	O-C-N	-6.11	116.13	122.66
1	hj	174	ALA	O-C-N	-6.11	114.03	122.46
1	hr	147	PRO	CA-N-CD	-6.11	103.45	112.00
1	hs	50	GLN	CA-C-N	6.11	128.38	120.44
1	hs	50	GLN	C-N-CA	6.11	128.38	120.44
1	hw	178	SER	CA-C-N	6.11	128.46	120.28
1	hw	178	SER	C-N-CA	6.11	128.46	120.28
1	hF	67	GLN	CA-C-N	6.11	128.46	120.28
1	hF	67	GLN	C-N-CA	6.11	128.46	120.28
1	im	183	ASN	CA-C-N	6.11	128.46	120.28
1	im	183	ASN	C-N-CA	6.11	128.46	120.28
1	iu	215	MET	CA-C-O	6.11	126.88	119.49
1	1R	141	ILE	CB-CA-C	-6.11	102.37	112.26
1	iS	7	GLN	N-CA-C	-6.11	105.83	113.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j1	210	THR	O-C-N	-6.11	115.89	122.85
1	j9	135	ILE	N-CA-C	6.11	116.85	110.62
1	jb	226	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	ji	120	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	jn	230	VAL	N-CA-CB	-6.11	104.11	110.95
1	jF	133	TRP	CA-C-N	6.11	129.09	120.42
1	jF	133	TRP	C-N-CA	6.11	129.09	120.42
1	jR	41	SER	CB-CA-C	-6.11	101.29	110.88
1	jT	102	SER	N-CA-C	6.11	118.01	111.36
1	jX	53	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	ka	120	HIS	CA-CB-CG	-6.11	107.69	113.80
1	km	136	LEU	CA-C-N	6.11	126.59	119.94
1	km	136	LEU	C-N-CA	6.11	126.59	119.94
1	kR	5	ASN	OD1-CG-ND2	-6.11	116.49	122.60
1	la	145	TYR	CB-CG-CD1	-6.11	111.64	120.80
1	lb	34	PRO	N-CA-CB	-6.11	96.84	103.25
1	lb	204	ALA	CA-C-N	6.11	128.38	120.44
1	lb	204	ALA	C-N-CA	6.11	128.38	120.44
1	lf	2	ILE	CB-CA-C	6.11	118.66	110.42
1	lj	186	THR	CA-C-O	-6.11	114.41	120.82
1	lp	34	PRO	N-CA-C	6.11	122.85	113.75
1	2v	13	GLN	CA-C-N	6.11	130.53	120.94
1	2v	13	GLN	C-N-CA	6.11	130.53	120.94
1	2z	49	PRO	N-CA-CB	-6.11	96.30	103.26
1	2U	74	ASN	CA-CB-CG	-6.11	106.50	112.60
1	38	230	VAL	CA-C-O	6.11	128.41	120.78
1	3d	81	ASP	CA-C-O	6.11	126.41	119.27
1	3q	174	ALA	N-CA-C	-6.11	103.96	112.45
1	3q	189	LEU	CA-C-N	6.11	128.38	120.44
1	3q	189	LEU	C-N-CA	6.11	128.38	120.44
1	3x	229	ARG	N-CA-C	6.11	119.82	111.39
1	3L	62	HIS	CA-C-N	6.11	128.78	120.54
1	3L	62	HIS	C-N-CA	6.11	128.78	120.54
1	44	151	LEU	N-CA-C	6.11	118.90	111.82
1	44	223	GLY	CA-C-N	6.11	126.07	119.78
1	44	223	GLY	C-N-CA	6.11	126.07	119.78
1	4f	211	LEU	CA-C-O	6.11	127.22	120.63
1	4i	197	ASP	CA-C-N	6.11	129.07	120.28
1	4i	197	ASP	C-N-CA	6.11	129.07	120.28
1	4m	138	LEU	N-CA-CB	6.11	119.19	110.16
1	4X	48	THR	O-C-N	-6.11	113.40	121.34
1	4Z	58	THR	CA-C-N	6.11	129.60	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Z	58	THR	C-N-CA	6.11	129.60	120.69
1	4Z	84	HIS	ND1-CE1-NE2	6.11	114.51	108.40
1	5i	116	GLY	CA-C-N	6.11	128.46	120.28
1	5i	116	GLY	C-N-CA	6.11	128.46	120.28
1	5q	84	HIS	CA-C-O	-6.11	113.03	120.05
1	5x	205	LEU	N-CA-C	6.11	118.73	111.71
1	5M	16	SER	N-CA-C	6.11	117.34	109.65
1	5U	178	SER	N-CA-CB	6.11	118.74	110.38
1	6c	166	ASP	N-CA-CB	-6.11	101.14	110.12
1	6i	139	ASN	N-CA-C	6.11	117.93	111.28
1	6q	120	HIS	CG-CD2-NE2	6.11	113.31	107.20
1	6t	226	HIS	CA-CB-CG	6.11	119.91	113.80
1	6I	16	SER	CA-C-N	6.11	126.00	119.28
1	6I	16	SER	C-N-CA	6.11	126.00	119.28
1	78	81	ASP	CA-CB-CG	6.11	118.70	112.60
1	7v	222	GLY	O-C-N	-6.11	115.93	122.95
1	7L	225	GLY	CA-C-N	6.11	129.51	120.90
1	7L	225	GLY	C-N-CA	6.11	129.51	120.90
1	7M	84	HIS	CA-C-N	6.11	126.45	119.92
1	7M	84	HIS	C-N-CA	6.11	126.45	119.92
1	85	155	GLN	OE1-CD-NE2	-6.11	116.50	122.60
1	8c	75	GLU	N-CA-C	-6.11	104.54	111.07
1	8l	64	ALA	CA-C-O	-6.11	114.37	120.90
1	8y	183	ASN	N-CA-C	6.11	117.60	111.07
1	8y	193	ASN	CA-CB-CG	-6.11	106.50	112.60
1	8D	96	MET	N-CA-C	6.11	119.12	109.96
1	8Q	196	PRO	CA-C-N	6.11	128.78	120.54
1	8Q	196	PRO	C-N-CA	6.11	128.78	120.54
1	92	92	GLU	CA-C-N	6.11	126.12	119.89
1	92	92	GLU	C-N-CA	6.11	126.12	119.89
1	92	201	ILE	CA-C-N	6.11	129.59	120.31
1	92	201	ILE	C-N-CA	6.11	129.59	120.31
1	94	9	GLN	CA-C-O	6.11	127.66	120.58
1	96	94	GLY	N-CA-C	-6.11	107.22	114.48
1	96	118	MET	CA-C-N	6.11	132.13	122.60
1	96	118	MET	C-N-CA	6.11	132.13	122.60
1	96	165	VAL	O-C-N	-6.11	115.93	121.91
1	9c	81	ASP	CA-C-N	6.11	128.38	120.44
1	9c	81	ASP	C-N-CA	6.11	128.38	120.44
1	9f	124	ILE	N-CA-C	-6.11	101.51	107.55
1	9f	181	VAL	O-C-N	-6.11	115.54	121.83
1	9z	103	ASP	N-CA-CB	-6.11	100.82	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a1	62	HIS	ND1-CG-CD2	6.11	112.20	106.10
1	a4	26	VAL	N-CA-C	6.11	116.85	110.62
1	aa	88	ALA	O-C-N	-6.11	115.38	122.95
1	as	214	MET	N-CA-C	6.11	118.90	111.82
1	au	212	GLU	CB-CA-C	-6.11	100.30	110.68
1	aw	126	VAL	O-C-N	-6.11	115.70	121.87
1	b0	81	ASP	CA-CB-CG	6.11	118.70	112.60
1	bd	40	PHE	O-C-N	-6.11	115.65	122.12
1	bV	122	PRO	CA-C-N	6.11	126.12	119.89
1	bV	122	PRO	C-N-CA	6.11	126.12	119.89
1	cd	24	VAL	O-C-N	-6.11	115.93	121.91
1	ch	143	ARG	NE-CZ-NH2	6.11	124.69	119.20
1	1e	138	LEU	N-CA-C	6.11	117.94	111.28
1	cJ	84	HIS	CA-CB-CG	-6.11	107.69	113.80
1	1g	65	ALA	N-CA-C	6.11	117.73	111.14
1	cM	226	HIS	O-C-N	-6.11	115.74	122.09
1	cN	166	ASP	CA-CB-CG	6.11	118.70	112.60
1	dl	45	GLU	N-CA-C	6.11	118.40	108.63
1	dr	134	ILE	CB-CA-C	-6.11	104.06	111.88
1	dw	187	GLU	N-CA-C	6.11	118.90	111.82
1	1o	133	TRP	CA-C-O	6.11	126.89	120.42
1	e6	130	TYR	CB-CG-CD2	-6.11	111.64	120.80
1	ej	14	ALA	N-CA-C	6.11	119.20	110.10
1	eA	124	ILE	CA-C-O	-6.11	115.70	119.12
1	eM	222	GLY	CA-C-N	6.11	131.46	121.87
1	eM	222	GLY	C-N-CA	6.11	131.46	121.87
1	eT	199	LYS	N-CA-C	6.11	117.60	111.07
1	f4	198	CYS	N-CA-C	6.11	118.44	111.11
1	fr	89	GLY	CA-C-N	6.11	127.47	119.84
1	fr	89	GLY	C-N-CA	6.11	127.47	119.84
1	fZ	12	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	g1	86	VAL	CA-C-N	6.11	129.50	120.95
1	g1	86	VAL	C-N-CA	6.11	129.50	120.95
1	g2	55	MET	CA-CB-CG	6.11	126.31	114.10
1	g3	229	ARG	N-CA-C	6.11	118.18	110.24
1	g4	71	GLU	N-CA-C	6.11	117.93	111.28
1	c	45	GLU	CB-CG-CD	6.11	122.98	112.60
1	d	132	ARG	CA-C-N	6.11	128.38	120.44
1	d	132	ARG	C-N-CA	6.11	128.38	120.44
1	H	40	PHE	N-CA-C	6.11	117.94	111.28
1	K	228	ALA	O-C-N	-6.11	116.29	123.25
1	g8	126	VAL	O-C-N	-6.10	115.95	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	163	ASP	N-CA-CB	-6.10	101.22	110.07
1	gp	172	LEU	CA-C-O	6.10	127.00	120.10
1	gA	108	THR	O-C-N	-6.10	114.71	122.34
1	h2	10	MET	N-CA-C	6.10	118.73	107.99
1	h5	184	TRP	CB-CA-C	6.10	120.92	110.79
1	h6	25	LYS	CA-C-O	6.10	127.23	120.82
1	h8	219	GLN	N-CA-C	6.10	123.80	110.80
1	hW	129	ILE	CA-C-N	6.10	128.96	120.29
1	hW	129	ILE	C-N-CA	6.10	128.96	120.29
1	1N	53	ASN	CA-C-N	6.10	128.96	120.29
1	1N	53	ASN	C-N-CA	6.10	128.96	120.29
1	ir	79	GLU	N-CA-C	6.10	117.93	111.28
1	1Q	146	SER	O-C-N	-6.10	114.30	121.32
1	iJ	75	GLU	N-CA-C	6.10	118.01	111.36
1	iM	189	LEU	O-C-N	-6.10	115.65	122.12
1	jb	185	MET	CA-C-N	6.10	128.46	120.28
1	jb	185	MET	C-N-CA	6.10	128.46	120.28
1	jc	88	ALA	CA-C-N	6.10	131.45	121.87
1	jc	88	ALA	C-N-CA	6.10	131.45	121.87
1	jr	4	GLN	CA-C-O	6.10	127.88	120.62
1	jU	139	ASN	O-C-N	-6.10	115.65	122.12
1	20	13	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	kX	39	MET	CB-CA-C	6.10	120.92	110.79
1	lj	94	GLY	CA-C-N	6.10	129.97	120.75
1	lj	94	GLY	C-N-CA	6.10	129.97	120.75
1	ls	72	THR	O-C-N	-6.10	115.65	122.12
1	2k	36	VAL	CA-C-N	6.10	125.21	120.33
1	2k	36	VAL	C-N-CA	6.10	125.21	120.33
1	3B	117	TRP	N-CA-C	6.10	118.01	111.36
1	3P	37	ILE	N-CA-C	6.10	119.67	112.35
1	4Z	193	ASN	CB-CA-C	6.10	120.28	110.09
1	6h	110	THR	N-CA-CB	6.10	119.70	110.42
1	6C	18	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	6J	14	ALA	O-C-N	-6.10	115.30	122.81
1	6N	131	LYS	CA-C-O	6.10	127.76	120.92
1	78	53	ASN	CA-CB-CG	-6.10	106.50	112.60
1	7C	103	ASP	CA-C-O	6.10	126.89	120.42
1	8a	178	SER	N-CA-C	6.10	118.59	110.53
1	8k	152	ASP	CA-CB-CG	-6.10	106.50	112.60
1	8v	134	ILE	CA-C-N	6.10	128.82	120.46
1	8v	134	ILE	C-N-CA	6.10	128.82	120.46
1	aC	219	GLN	OE1-CD-NE2	-6.10	116.50	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bp	47	ALA	N-CA-C	6.10	119.11	110.50
1	bE	135	ILE	N-CA-C	6.10	116.28	110.42
1	bU	176	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	cA	54	THR	CA-C-O	6.10	126.89	120.42
1	cV	210	THR	N-CA-CB	6.10	118.94	109.97
1	dd	158	LYS	CA-C-O	6.10	125.50	118.97
1	dm	37	ILE	O-C-N	-6.10	115.74	120.07
1	dC	117	TRP	CB-CG-CD1	-6.10	117.74	126.90
1	dH	214	MET	N-CA-C	6.10	117.60	111.07
1	1m	203	LYS	CA-C-N	6.10	128.46	120.28
1	1m	203	LYS	C-N-CA	6.10	128.46	120.28
1	dM	135	ILE	O-C-N	-6.10	115.95	121.87
1	dX	76	GLU	N-CA-C	6.10	117.93	111.28
1	ea	158	LYS	CA-C-N	6.10	129.36	120.51
1	ea	158	LYS	C-N-CA	6.10	129.36	120.51
1	es	86	VAL	O-C-N	-6.10	115.96	123.10
1	eN	177	ALA	CA-C-N	6.10	129.97	120.75
1	eN	177	ALA	C-N-CA	6.10	129.97	120.75
1	f1	133	TRP	CA-CB-CG	6.10	125.20	113.60
1	fO	102	SER	N-CA-C	-6.10	105.32	112.89
1	g0	102	SER	O-C-N	-6.10	114.04	122.46
1	0	114	GLN	O-C-N	6.10	128.59	122.12
1	v	220	GLY	CA-C-N	6.10	129.28	120.98
1	v	220	GLY	C-N-CA	6.10	129.28	120.98
1	g8	13	GLN	CA-C-N	6.10	129.97	120.75
1	g8	13	GLN	C-N-CA	6.10	129.97	120.75
1	1C	32	PHE	CA-C-O	6.10	128.54	121.34
1	gi	203	LYS	CA-C-N	6.10	128.46	120.28
1	gi	203	LYS	C-N-CA	6.10	128.46	120.28
1	gz	12	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	gN	186	THR	N-CA-CB	6.10	119.19	110.16
1	gV	92	GLU	CA-C-N	6.10	126.13	119.90
1	gV	92	GLU	C-N-CA	6.10	126.13	119.90
1	hv	186	THR	N-CA-CB	6.10	119.19	110.16
1	1K	118	MET	N-CA-C	6.10	117.93	111.28
1	hW	191	VAL	CB-CA-C	-6.10	104.07	111.88
1	1O	16	SER	CA-C-O	6.10	125.19	119.76
1	ih	82	ARG	CA-C-N	6.10	129.59	120.31
1	ih	82	ARG	C-N-CA	6.10	129.59	120.31
1	iv	53	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	iw	83	LEU	CA-C-O	6.10	126.89	119.38
1	iT	127	GLY	O-C-N	-6.10	115.32	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j2	125	PRO	CA-C-N	6.10	128.33	120.70
1	j2	125	PRO	C-N-CA	6.10	128.33	120.70
1	j8	100	ARG	NH1-CZ-NH2	6.10	127.23	119.30
1	jg	84	HIS	O-C-N	-6.10	115.91	121.34
1	jl	105	ALA	CA-C-O	6.10	126.66	119.28
1	jR	75	GLU	N-CA-C	6.10	117.60	111.07
1	jS	226	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	k2	201	ILE	CA-C-N	6.10	128.96	120.29
1	k2	201	ILE	C-N-CA	6.10	128.96	120.29
1	k6	217	ALA	CA-C-O	-6.10	113.95	121.88
1	kg	112	GLN	N-CA-C	6.10	118.73	111.71
1	kj	210	THR	CA-C-N	6.10	128.46	120.28
1	kj	210	THR	C-N-CA	6.10	128.46	120.28
1	kz	43	LEU	CA-C-O	6.10	126.99	119.97
1	kU	126	VAL	N-CA-C	6.10	119.59	111.17
1	27	39	MET	N-CA-C	6.10	117.93	111.28
1	lv	159	GLU	N-CA-C	6.10	118.71	110.29
1	lw	71	GLU	CA-C-N	6.10	128.46	120.28
1	lw	71	GLU	C-N-CA	6.10	128.46	120.28
1	lz	129	ILE	N-CA-C	6.10	116.28	110.42
1	2l	115	ILE	CA-C-N	6.10	126.59	119.94
1	2l	115	ILE	C-N-CA	6.10	126.59	119.94
1	2s	105	ALA	CA-C-N	6.10	132.26	122.25
1	2s	105	ALA	C-N-CA	6.10	132.26	122.25
1	2E	131	LYS	CG-CD-CE	6.10	125.33	111.30
1	2N	110	THR	OG1-CB-CG2	-6.10	97.09	109.30
1	2T	8	GLY	CA-C-O	6.10	128.19	122.57
1	3f	139	ASN	N-CA-C	6.10	118.71	111.33
1	3g	13	GLN	N-CA-C	-6.10	99.87	108.96
1	3m	12	HIS	CA-C-O	6.10	128.00	121.16
1	3O	203	LYS	N-CA-C	6.10	117.93	111.28
1	3S	208	ALA	N-CA-C	6.10	119.77	112.93
1	3X	100	ARG	NE-CZ-NH2	6.10	124.69	119.20
1	40	143	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	4Z	67	GLN	N-CA-C	6.10	118.01	111.36
1	55	11	VAL	CA-C-O	6.10	127.10	120.57
1	5c	18	ARG	N-CA-C	6.10	117.93	111.28
1	5v	187	GLU	CB-CG-CD	6.10	122.97	112.60
1	5Y	119	THR	CA-CB-OG1	6.10	118.75	109.60
1	6f	43	LEU	CA-C-O	6.10	126.11	119.15
1	6t	182	LYS	CA-CB-CG	6.10	126.31	114.10
1	6D	101	GLY	CA-C-N	6.10	128.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6D	101	GLY	C-N-CA	6.10	128.37	120.44
1	6M	48	THR	N-CA-CB	6.10	116.82	109.74
1	72	84	HIS	CA-C-O	-6.10	113.70	119.80
1	7i	130	TYR	CA-C-O	6.10	127.02	120.55
1	7F	146	SER	CA-C-O	-6.10	113.82	120.17
1	7J	224	PRO	N-CA-CB	-6.10	96.23	102.88
1	7V	56	LEU	N-CA-C	6.10	117.93	111.28
1	8d	88	ALA	N-CA-CB	-6.10	102.69	111.54
1	8e	216	THR	N-CA-CB	6.10	119.83	110.61
1	8o	4	GLN	O-C-N	-6.10	116.52	123.48
1	8s	103	ASP	CA-CB-CG	-6.10	106.50	112.60
1	8u	82	ARG	N-CA-C	6.10	117.93	111.28
1	8z	78	ALA	N-CA-CB	-6.10	101.13	110.16
1	8X	163	ASP	N-CA-C	6.10	119.92	112.23
1	8Z	195	ASN	CA-C-N	6.10	125.50	118.85
1	8Z	195	ASN	C-N-CA	6.10	125.50	118.85
1	98	196	PRO	CA-C-N	6.10	130.45	120.63
1	98	196	PRO	C-N-CA	6.10	130.45	120.63
1	9t	63	GLN	N-CA-C	6.10	118.43	111.11
1	9y	34	PRO	CB-CA-C	6.10	121.63	111.56
1	9B	31	ALA	O-C-N	-6.10	114.47	122.59
1	9E	227	LYS	CA-C-N	6.10	133.20	121.54
1	9E	227	LYS	C-N-CA	6.10	133.20	121.54
1	ac	18	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	af	84	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	at	165	VAL	N-CA-CB	6.10	117.28	110.51
1	12	164	TYR	CB-CA-C	6.10	120.57	110.81
1	aw	165	VAL	CA-CB-CG1	6.10	120.78	110.40
1	aF	159	GLU	O-C-N	-6.10	115.01	121.30
1	aJ	84	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	aW	23	TRP	CA-C-N	6.10	128.25	120.56
1	aW	23	TRP	C-N-CA	6.10	128.25	120.56
1	19	157	PRO	O-C-N	-6.10	114.40	122.64
1	bF	84	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	bV	41	SER	CA-C-N	6.10	128.46	120.28
1	bV	41	SER	C-N-CA	6.10	128.46	120.28
1	c1	52	LEU	N-CA-CB	6.10	119.09	110.12
1	1e	172	LEU	O-C-N	6.10	128.59	122.12
1	cu	15	ILE	N-CA-C	6.10	117.29	109.30
1	cu	29	GLU	N-CA-CB	6.10	118.92	110.07
1	cQ	141	ILE	N-CA-C	6.10	116.84	110.62
1	cV	113	GLU	CA-C-N	6.10	128.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cV	113	GLU	C-N-CA	6.10	128.37	120.44
1	cY	168	PHE	CA-CB-CG	-6.10	107.70	113.80
1	do	97	ARG	NH1-CZ-NH2	-6.10	111.37	119.30
1	dC	32	PHE	CA-CB-CG	-6.10	107.70	113.80
1	dC	132	ARG	CB-CA-C	6.10	120.58	110.81
1	dJ	66	MET	N-CA-CB	6.10	119.09	110.12
1	ej	200	THR	CA-C-N	6.10	128.25	120.56
1	ej	200	THR	C-N-CA	6.10	128.25	120.56
1	ey	150	ILE	CA-C-N	6.10	129.58	120.31
1	ey	150	ILE	C-N-CA	6.10	129.58	120.31
1	eS	195	ASN	CA-CB-CG	-6.10	106.50	112.60
1	eU	176	GLN	CA-C-N	6.10	129.96	120.75
1	eU	176	GLN	C-N-CA	6.10	129.96	120.75
1	fE	228	ALA	N-CA-CB	-6.10	99.27	109.28
1	fK	18	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	g5	188	THR	CA-C-N	6.10	128.74	120.38
1	g5	188	THR	C-N-CA	6.10	128.74	120.38
1	q	162	ARG	NE-CZ-NH2	6.10	124.69	119.20
1	r	103	ASP	CA-C-N	6.10	128.82	120.46
1	r	103	ASP	C-N-CA	6.10	128.82	120.46
1	y	3	VAL	N-CA-CB	6.10	120.09	112.16
1	D	53	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	3	26	VAL	N-CA-CB	6.10	117.03	110.62
1	3	78	ALA	CA-C-O	-6.10	114.41	120.82
1	8	169	TYR	N-CA-C	6.10	118.43	111.11
1	gy	145	TYR	CB-CG-CD1	-6.10	111.65	120.80
1	h3	190	LEU	N-CA-C	6.10	117.73	111.14
1	hr	42	ALA	CA-C-N	6.10	128.46	120.28
1	hr	42	ALA	C-N-CA	6.10	128.46	120.28
1	hW	168	PHE	N-CA-C	6.10	117.60	111.07
1	iq	32	PHE	CA-CB-CG	-6.10	107.70	113.80
1	it	109	SER	N-CA-CB	6.10	120.15	110.57
1	iM	228	ALA	N-CA-C	6.10	117.93	111.28
1	iR	226	HIS	CA-CB-CG	6.10	119.90	113.80
1	1T	177	ALA	CA-C-N	6.10	129.37	120.71
1	1T	177	ALA	C-N-CA	6.10	129.37	120.71
1	jS	35	GLU	CA-C-O	6.10	127.03	120.20
1	ke	29	GLU	O-C-N	-6.10	115.44	122.09
1	km	46	GLY	O-C-N	6.10	130.63	122.70
1	ko	81	ASP	CA-CB-CG	6.10	118.70	112.60
1	kv	143	ARG	NE-CZ-NH2	6.10	124.69	119.20
1	kR	215	MET	CA-C-N	6.10	129.58	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kR	215	MET	C-N-CA	6.10	129.58	120.31
1	26	53	ASN	N-CA-C	6.10	117.60	111.07
1	lf	195	ASN	O-C-N	-6.10	115.87	121.30
1	35	82	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	4Y	42	ALA	O-C-N	-6.10	115.19	122.15
1	5n	162	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	5A	69	LEU	N-CA-C	6.10	117.93	111.28
1	5L	16	SER	N-CA-C	-6.10	102.38	110.07
1	6B	86	VAL	O-C-N	-6.10	114.94	122.57
1	6E	167	ARG	O-C-N	-6.10	115.75	122.09
1	75	207	PRO	N-CA-CB	6.10	109.58	103.48
1	76	205	LEU	CA-C-O	6.10	126.92	119.11
1	7J	162	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	83	179	GLN	N-CA-C	6.10	117.93	111.28
1	8d	214	MET	CA-C-O	-6.10	114.08	120.55
1	8u	183	ASN	N-CA-C	6.10	117.93	111.28
1	94	103	ASP	N-CA-C	6.10	118.73	111.71
1	9w	55	MET	O-C-N	-6.10	115.65	122.12
1	a3	190	LEU	N-CA-C	6.10	117.73	111.14
1	a5	143	ARG	CA-C-N	6.10	128.46	120.28
1	a5	143	ARG	C-N-CA	6.10	128.46	120.28
1	b4	156	GLY	O-C-N	-6.10	115.67	121.77
1	bI	166	ASP	CA-C-N	6.10	128.74	120.44
1	bI	166	ASP	C-N-CA	6.10	128.74	120.44
1	ct	227	LYS	N-CA-C	6.10	118.84	110.24
1	cz	176	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	cP	32	PHE	CB-CA-C	6.10	118.94	110.16
1	1l	13	GLN	O-C-N	-6.10	116.27	123.41
1	dL	149	SER	CA-C-N	6.10	129.13	120.53
1	dL	149	SER	C-N-CA	6.10	129.13	120.53
1	dS	84	HIS	O-C-N	-6.10	114.95	121.42
1	dZ	223	GLY	N-CA-C	6.10	124.78	112.34
1	1q	28	GLU	CA-C-O	6.10	127.23	120.82
1	f5	138	LEU	O-C-N	-6.10	115.79	122.07
1	1w	186	THR	CA-C-O	-6.10	114.08	120.55
1	fw	57	ASN	CA-CB-CG	-6.10	106.50	112.60
1	fF	72	THR	CA-CB-CG2	6.10	120.87	110.50
1	fF	170	LYS	N-CA-C	6.10	118.46	111.02
1	g6	15	ILE	CA-CB-CG1	6.10	120.77	110.40
1	e	47	ALA	O-C-N	-6.10	115.43	122.93
1	C	150	ILE	N-CA-C	6.10	116.84	110.62
1	C	164	TYR	CA-C-N	6.10	128.25	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	164	TYR	C-N-CA	6.10	128.25	120.56
1	G	95	GLN	CA-C-N	6.10	129.96	120.75
1	G	95	GLN	C-N-CA	6.10	129.96	120.75
1	4	67	GLN	CA-C-N	6.10	128.78	120.54
1	4	67	GLN	C-N-CA	6.10	128.78	120.54
1	6	111	LEU	O-C-N	-6.10	115.65	122.12
1	g8	159	GLU	CA-C-N	6.10	126.12	119.90
1	g8	159	GLU	C-N-CA	6.10	126.12	119.90
1	gc	184	TRP	CB-CG-CD2	6.10	135.34	126.80
1	gd	161	PHE	CA-CB-CG	-6.10	107.70	113.80
1	gj	219	GLN	O-C-N	-6.10	115.28	122.96
1	gq	192	GLN	N-CA-C	6.10	118.01	111.36
1	gt	180	GLU	N-CA-C	6.10	119.91	112.23
1	gM	110	THR	N-CA-C	6.10	119.55	110.52
1	h3	199	LYS	N-CA-CB	6.10	119.21	110.06
1	hj	31	ALA	N-CA-C	6.10	118.71	111.33
1	hu	82	ARG	NH1-CZ-NH2	-6.10	111.37	119.30
1	hD	144	MET	CG-SD-CE	-6.10	87.48	100.90
1	hG	117	TRP	N-CA-CB	6.10	119.61	110.22
1	hH	111	LEU	CA-C-O	-6.10	114.37	120.90
1	hL	139	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	hZ	225	GLY	N-CA-C	-6.10	107.96	114.67
1	io	141	ILE	CA-C-N	6.10	128.82	120.46
1	io	141	ILE	C-N-CA	6.10	128.82	120.46
1	iy	82	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	iM	190	LEU	CA-C-N	6.10	129.08	120.42
1	iM	190	LEU	C-N-CA	6.10	129.08	120.42
1	iN	217	ALA	CA-C-N	6.10	133.19	121.54
1	iN	217	ALA	C-N-CA	6.10	133.19	121.54
1	iU	70	LYS	CA-C-N	6.10	128.37	120.44
1	iU	70	LYS	C-N-CA	6.10	128.37	120.44
1	j9	165	VAL	O-C-N	-6.10	115.91	121.89
1	js	205	LEU	N-CA-CB	6.10	119.19	110.16
1	ju	229	ARG	N-CA-C	6.10	119.76	109.76
1	jJ	188	THR	CA-C-N	6.10	129.06	120.28
1	jJ	188	THR	C-N-CA	6.10	129.06	120.28
1	ke	2	ILE	N-CA-C	6.10	117.80	108.71
1	26	162	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	2e	208	ALA	N-CA-C	6.10	118.71	111.33
1	2J	62	HIS	CA-CB-CG	-6.10	107.70	113.80
1	3q	12	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	3q	120	HIS	CE1-NE2-CD2	-6.10	102.90	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3V	96	MET	N-CA-CB	6.10	119.04	109.83
1	42	140	LYS	N-CA-C	6.10	117.93	111.28
1	44	155	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	48	100	ARG	CA-C-N	6.10	126.86	120.03
1	48	100	ARG	C-N-CA	6.10	126.86	120.03
1	4M	22	ALA	N-CA-C	6.10	117.93	111.28
1	5q	148	THR	O-C-N	-6.10	115.01	122.82
1	5v	113	GLU	N-CA-C	6.10	117.60	111.07
1	5D	12	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	5M	114	GLN	N-CA-C	6.10	117.93	111.28
1	5X	10	MET	CA-C-N	6.10	132.32	122.68
1	5X	10	MET	C-N-CA	6.10	132.32	122.68
1	5Y	169	TYR	O-C-N	-6.10	115.20	122.15
1	60	46	GLY	CA-C-N	6.10	130.14	121.42
1	60	46	GLY	C-N-CA	6.10	130.14	121.42
1	66	203	LYS	CA-C-O	6.10	127.02	120.55
1	6v	102	SER	N-CA-C	6.10	118.72	111.71
1	6N	201	ILE	CA-C-O	6.10	127.82	121.05
1	73	9	GLN	N-CA-C	6.10	118.01	111.36
1	76	76	GLU	N-CA-C	6.10	117.93	111.28
1	77	217	ALA	CA-C-O	6.10	127.57	120.80
1	7e	36	VAL	N-CA-C	-6.10	103.27	111.44
1	7j	24	VAL	N-CA-CB	6.10	118.84	110.54
1	7j	111	LEU	O-C-N	-6.10	115.79	122.07
1	7l	87	HIS	CA-CB-CG	6.10	119.90	113.80
1	7o	95	GLN	CB-CG-CD	-6.10	102.23	112.60
1	7C	92	GLU	CA-C-N	6.10	126.11	119.89
1	7C	92	GLU	C-N-CA	6.10	126.11	119.89
1	7M	82	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	7R	189	LEU	CA-C-N	6.10	128.45	120.28
1	7R	189	LEU	C-N-CA	6.10	128.45	120.28
1	7V	210	THR	O-C-N	-6.10	115.31	122.81
1	8c	201	ILE	CA-C-O	-6.10	113.70	120.96
1	8m	74	ASN	O-C-N	-6.10	114.77	122.27
1	8m	164	TYR	N-CA-C	6.10	118.43	111.11
1	8F	102	SER	CA-C-O	6.10	126.99	120.10
1	8W	129	ILE	O-C-N	-6.10	115.93	121.91
1	92	87	HIS	CA-CB-CG	6.10	119.90	113.80
1	97	193	ASN	CA-CB-CG	-6.10	106.50	112.60
1	9d	197	ASP	CA-C-N	6.10	128.78	120.54
1	9d	197	ASP	C-N-CA	6.10	128.78	120.54
1	9j	86	VAL	O-C-N	-6.10	116.45	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	89	GLY	N-CA-C	6.10	124.78	112.34
1	9o	106	GLY	O-C-N	-6.10	114.59	122.34
1	9M	82	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	9R	229	ARG	CA-C-O	6.10	126.49	119.35
1	9X	168	PHE	N-CA-C	6.10	117.60	111.07
1	ac	159	GLU	CA-C-O	6.10	126.09	120.60
1	ax	14	ALA	O-C-N	-6.10	115.90	122.85
1	aB	202	LEU	N-CA-C	6.10	117.73	111.14
1	aS	23	TRP	CA-C-N	6.10	128.82	120.46
1	aS	23	TRP	C-N-CA	6.10	128.82	120.46
1	ba	135	ILE	N-CA-C	6.10	116.84	110.62
1	bg	119	THR	CA-CB-OG1	6.10	118.75	109.60
1	bp	229	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	bH	151	LEU	O-C-N	-6.10	115.66	122.12
1	bR	122	PRO	CA-C-N	6.10	127.47	119.84
1	bR	122	PRO	C-N-CA	6.10	127.47	119.84
1	bX	211	LEU	CA-C-O	6.10	127.02	120.55
1	1c	24	VAL	O-C-N	-6.10	115.91	121.89
1	cg	26	VAL	CB-CA-C	6.10	120.37	112.14
1	cs	227	LYS	O-C-N	-6.10	115.39	122.95
1	cA	18	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	cK	117	TRP	CD2-CE2-CZ2	6.10	128.50	122.40
1	cL	139	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	cP	146	SER	N-CA-C	6.10	117.39	109.64
1	cW	23	TRP	CB-CG-CD1	-6.10	117.75	126.90
1	d5	199	LYS	N-CA-C	6.10	118.01	111.36
1	d6	21	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	dD	211	LEU	O-C-N	-6.10	115.08	122.22
1	dO	37	ILE	N-CA-C	6.10	122.06	108.88
1	dV	5	ASN	O-C-N	6.10	128.68	122.09
1	e0	185	MET	CA-C-O	6.10	127.43	120.90
1	e4	188	THR	N-CA-C	6.10	119.11	111.24
1	e7	62	HIS	N-CA-CB	6.10	120.80	110.49
1	ep	57	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	f5	148	THR	N-CA-CB	6.10	120.17	110.65
1	f7	18	ARG	N-CA-C	6.10	117.73	111.14
1	f9	142	VAL	O-C-N	-6.10	115.95	121.87
1	fe	63	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	fk	185	MET	N-CA-C	-6.10	104.19	111.69
1	fn	135	ILE	N-CA-C	6.10	116.84	110.62
1	ft	81	ASP	CA-C-N	6.10	128.45	120.28
1	ft	81	ASP	C-N-CA	6.10	128.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fx	154	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	fD	15	ILE	CA-C-O	6.10	127.78	120.65
1	fD	129	ILE	N-CA-C	6.10	116.76	110.36
1	fN	193	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	fR	146	SER	N-CA-C	6.10	117.39	109.64
1	b	196	PRO	N-CA-CB	6.10	109.65	103.25
1	A	185	MET	CA-C-O	-6.10	114.08	120.55
1	F	56	LEU	CA-C-N	6.10	128.45	120.28
1	F	56	LEU	C-N-CA	6.10	128.45	120.28
1	F	230	VAL	N-CA-CB	-6.10	103.41	110.55
1	U	162	ARG	O-C-N	-6.10	115.65	122.12
1	ge	214	MET	O-C-N	-6.10	115.66	122.12
1	gs	64	ALA	N-CA-C	-6.10	104.71	111.36
1	gQ	61	GLY	CA-C-N	6.10	133.19	121.54
1	gQ	61	GLY	C-N-CA	6.10	133.19	121.54
1	h0	15	ILE	O-C-N	-6.10	116.04	122.81
1	h0	155	GLN	CB-CA-C	-6.10	99.90	109.84
1	h1	89	GLY	N-CA-C	6.10	119.32	112.00
1	hu	33	SER	CA-C-O	-6.10	114.78	120.94
1	hz	82	ARG	CA-C-O	6.10	127.01	120.55
1	hT	50	GLN	CA-C-N	6.10	128.77	120.54
1	hT	50	GLN	C-N-CA	6.10	128.77	120.54
1	i0	87	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	i4	197	ASP	O-C-N	-6.10	115.20	122.15
1	id	54	THR	O-C-N	-6.10	115.66	122.12
1	1O	146	SER	N-CA-CB	6.10	119.39	110.30
1	ii	67	GLN	O-C-N	-6.10	115.79	122.07
1	in	11	VAL	CA-C-O	6.10	126.79	120.39
1	iy	162	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	iz	151	LEU	N-CA-C	6.10	118.72	111.71
1	iF	112	GLN	N-CA-C	6.10	117.93	111.28
1	iL	129	ILE	O-C-N	-6.10	115.94	121.91
1	1V	75	GLU	CB-CG-CD	6.10	122.97	112.60
1	jm	162	ARG	N-CA-C	6.10	117.93	111.28
1	jv	120	HIS	CG-CD2-NE2	6.10	113.30	107.20
1	jF	7	GLN	CA-C-O	6.10	125.36	119.08
1	1X	62	HIS	ND1-CG-CD2	6.10	112.20	106.10
1	jG	90	PRO	N-CA-CB	6.10	108.66	103.35
1	k6	200	THR	N-CA-C	6.10	117.59	111.07
1	20	53	ASN	CA-C-N	6.10	128.45	120.28
1	20	53	ASN	C-N-CA	6.10	128.45	120.28
1	kb	39	MET	CA-C-N	6.10	128.77	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kb	39	MET	C-N-CA	6.10	128.77	120.54
1	kh	38	PRO	N-CA-C	-6.10	105.23	113.40
1	kv	183	ASN	CA-CB-CG	-6.10	106.50	112.60
1	kv	186	THR	CA-CB-OG1	6.10	118.75	109.60
1	kJ	105	ALA	CA-C-O	6.10	126.92	119.11
1	kM	51	ASP	O-C-N	-6.10	115.66	122.12
1	kU	102	SER	N-CA-C	6.10	117.93	111.28
1	l3	195	ASN	O-C-N	-6.10	115.02	121.30
1	l5	18	ARG	NE-CZ-NH1	6.10	127.60	121.50
1	le	142	VAL	CA-C-O	-6.10	114.71	121.17
1	le	207	PRO	N-CA-C	6.10	121.52	114.20
1	27	87	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	29	104	ILE	N-CA-C	-6.10	104.56	110.72
1	2d	188	THR	N-CA-CB	6.10	120.80	110.49
1	2g	16	SER	CA-C-N	6.10	125.99	119.28
1	2g	16	SER	C-N-CA	6.10	125.99	119.28
1	2h	187	GLU	N-CA-C	6.10	117.59	111.07
1	2i	211	LEU	N-CA-C	6.10	117.93	111.28
1	2l	80	TRP	CB-CG-CD2	6.10	135.34	126.80
1	2n	152	ASP	CA-CB-CG	-6.10	106.50	112.60
1	2x	87	HIS	CB-CG-CD2	-6.10	123.27	131.20
1	2J	199	LYS	CA-C-N	6.10	128.45	120.28
1	2J	199	LYS	C-N-CA	6.10	128.45	120.28
1	2O	118	MET	N-CA-C	6.10	118.72	111.71
1	2U	106	GLY	CA-C-O	6.10	125.61	119.27
1	2Y	184	TRP	O-C-N	-6.10	115.79	122.07
1	37	132	ARG	N-CA-C	6.10	117.93	111.28
1	3h	197	ASP	CA-C-N	6.10	128.45	120.28
1	3h	197	ASP	C-N-CA	6.10	128.45	120.28
1	3p	104	ILE	N-CA-CB	6.10	117.68	110.55
1	3B	172	LEU	O-C-N	-6.10	114.05	122.46
1	3D	226	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	3S	66	MET	CA-C-O	6.10	127.01	120.55
1	4b	40	PHE	CA-CB-CG	-6.10	107.70	113.80
1	4t	168	PHE	CA-C-N	6.10	129.58	120.31
1	4t	168	PHE	C-N-CA	6.10	129.58	120.31
1	4A	212	GLU	N-CA-C	6.10	117.93	111.28
1	4H	71	GLU	O-C-N	-6.10	115.09	122.22
1	4R	159	GLU	N-CA-C	6.10	119.54	110.39
1	4T	117	TRP	O-C-N	-6.10	115.51	122.09
1	4V	204	ALA	O-C-N	6.10	128.58	122.12
1	4W	14	ALA	N-CA-C	6.10	119.07	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Z	132	ARG	N-CA-C	6.10	117.59	111.07
1	4Z	141	ILE	N-CA-C	6.10	116.27	110.42
1	54	153	ILE	O-C-N	-6.10	116.26	123.03
1	5d	165	VAL	O-C-N	6.10	128.03	121.87
1	5e	12	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	5o	12	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	5s	165	VAL	N-CA-C	6.10	116.84	110.62
1	5L	174	ALA	N-CA-C	6.10	117.93	111.28
1	5P	100	ARG	NE-CZ-NH2	-6.10	113.71	119.20
1	5Z	110	THR	N-CA-C	6.10	119.07	110.23
1	64	230	VAL	N-CA-CB	6.10	119.64	110.13
1	69	205	LEU	CA-C-N	6.10	131.44	121.87
1	69	205	LEU	C-N-CA	6.10	131.44	121.87
1	6F	192	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	6Y	130	TYR	CB-CG-CD1	6.10	129.95	120.80
1	72	117	TRP	N-CA-C	6.10	118.43	111.11
1	75	24	VAL	N-CA-C	6.10	118.71	111.09
1	7a	87	HIS	N-CA-C	6.10	118.42	110.43
1	7n	93	PRO	N-CA-C	6.10	120.81	111.11
1	7H	139	ASN	OD1-CG-ND2	-6.10	116.50	122.60
1	7K	39	MET	CA-C-O	-6.10	114.42	120.82
1	7Y	58	THR	CA-C-O	6.10	127.01	120.55
1	89	160	PRO	CA-C-N	6.10	129.28	120.38
1	89	160	PRO	C-N-CA	6.10	129.28	120.38
1	8d	210	THR	CA-C-N	6.10	128.77	120.54
1	8d	210	THR	C-N-CA	6.10	128.77	120.54
1	8z	142	VAL	N-CA-C	6.10	116.84	110.62
1	8F	108	THR	N-CA-CB	6.10	119.89	110.80
1	8H	87	HIS	N-CA-C	6.10	119.66	111.24
1	8Q	131	LYS	CA-C-O	6.10	126.88	120.42
1	93	93	PRO	CB-CA-C	-6.10	103.82	111.56
1	9b	33	SER	N-CA-CB	6.10	117.50	111.10
1	9S	12	HIS	N-CA-CB	6.10	119.10	109.71
1	a3	63	GLN	N-CA-C	6.10	117.59	111.07
1	ah	215	MET	CG-SD-CE	-6.10	87.48	100.90
1	au	54	THR	N-CA-C	6.10	117.59	111.07
1	au	58	THR	N-CA-CB	6.10	119.69	110.30
1	az	35	GLU	CA-C-O	6.10	126.88	119.38
1	13	87	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	aH	113	GLU	N-CA-C	6.10	117.59	111.07
1	aJ	226	HIS	ND1-CE1-NE2	6.10	114.50	108.40
1	aW	184	TRP	CZ3-CH2-CZ2	-6.10	113.57	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b4	116	GLY	CA-C-N	6.10	128.37	120.44
1	b4	116	GLY	C-N-CA	6.10	128.37	120.44
1	16	214	MET	O-C-N	-6.10	115.66	122.12
1	b8	14	ALA	CA-C-N	6.10	128.83	120.35
1	b8	14	ALA	C-N-CA	6.10	128.83	120.35
1	18	132	ARG	NH1-CZ-NH2	-6.10	111.37	119.30
1	bs	19	THR	O-C-N	-6.10	114.30	122.23
1	bx	84	HIS	CB-CA-C	-6.10	104.11	110.33
1	bX	25	LYS	N-CA-C	6.10	117.59	111.07
1	1d	166	ASP	N-CA-C	6.10	117.59	111.07
1	cm	3	VAL	N-CA-C	-6.10	106.86	112.96
1	cR	114	GLN	N-CA-C	6.10	117.59	111.07
1	d2	64	ALA	CA-C-O	6.10	126.88	120.42
1	dj	112	GLN	OE1-CD-NE2	6.10	128.70	122.60
1	ds	23	TRP	CB-CG-CD2	6.10	135.34	126.80
1	dx	97	ARG	O-C-N	-6.10	115.31	122.81
1	1m	131	LYS	N-CA-C	6.10	118.71	111.33
1	e0	185	MET	O-C-N	-6.10	115.75	122.09
1	e8	72	THR	O-C-N	-6.10	115.79	122.07
1	ea	92	GLU	O-C-N	-6.10	116.13	121.31
1	ek	130	TYR	CA-C-N	6.10	128.45	120.28
1	ek	130	TYR	C-N-CA	6.10	128.45	120.28
1	eE	103	ASP	CA-CB-CG	-6.10	106.50	112.60
1	eH	217	ALA	CA-C-O	-6.10	114.33	121.16
1	eR	65	ALA	N-CA-CB	-6.10	101.14	110.16
1	f2	19	THR	N-CA-C	6.10	117.59	111.07
1	f2	22	ALA	CA-C-N	6.10	128.37	120.44
1	f2	22	ALA	C-N-CA	6.10	128.37	120.44
1	f2	135	ILE	N-CA-C	6.10	117.57	110.62
1	fb	84	HIS	CB-CG-CD2	-6.10	123.27	131.20
1	fp	153	ILE	N-CA-CB	6.10	120.37	110.13
1	fF	128	GLU	CB-CG-CD	6.10	122.97	112.60
1	fQ	132	ARG	N-CA-CB	6.10	119.03	109.94
1	fT	86	VAL	N-CA-C	6.10	116.29	108.12
1	g2	155	GLN	N-CA-C	6.10	119.10	110.50
1	f	71	GLU	CA-C-N	6.10	131.01	120.58
1	f	71	GLU	C-N-CA	6.10	131.01	120.58
1	i	62	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	s	12	HIS	CE1-NE2-CD2	-6.10	102.90	109.00
1	gv	15	ILE	CB-CA-C	6.10	118.47	110.91
1	gD	217	ALA	N-CA-C	6.10	119.18	110.10
1	1I	21	ASN	CA-C-N	6.10	128.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1I	21	ASN	C-N-CA	6.10	128.45	120.28
1	iU	48	THR	CA-C-N	6.10	127.46	119.84
1	iU	48	THR	C-N-CA	6.10	127.46	119.84
1	1T	34	PRO	O-C-N	-6.10	114.79	122.17
1	jy	229	ARG	CB-CA-C	6.10	118.98	109.84
1	jP	166	ASP	O-C-N	-6.10	115.79	122.07
1	1Y	131	LYS	N-CA-CB	-6.10	101.14	110.16
1	ki	53	ASN	N-CA-C	6.10	117.59	111.07
1	kH	3	VAL	CA-C-O	6.10	126.82	120.36
1	kR	20	LEU	CA-C-N	6.10	128.45	120.28
1	kR	20	LEU	C-N-CA	6.10	128.45	120.28
1	kS	192	GLN	N-CA-C	6.10	119.98	112.54
1	25	201	ILE	CA-C-N	6.10	128.45	120.28
1	25	201	ILE	C-N-CA	6.10	128.45	120.28
1	kZ	187	GLU	N-CA-CB	-6.10	101.47	110.49
1	lw	57	ASN	CB-CA-C	-6.10	97.94	110.38
1	2w	23	TRP	N-CA-C	6.10	117.59	111.07
1	2C	206	GLY	CA-C-N	-6.10	112.22	119.84
1	2C	206	GLY	C-N-CA	-6.10	112.22	119.84
1	2S	37	ILE	O-C-N	-6.10	116.52	120.42
1	3c	196	PRO	N-CA-CB	6.10	109.65	103.25
1	3l	66	MET	N-CA-C	6.10	118.00	111.36
1	3W	115	ILE	O-C-N	6.10	128.54	121.96
1	4K	98	GLU	CA-C-N	6.10	126.01	119.85
1	4K	98	GLU	C-N-CA	6.10	126.01	119.85
1	4Q	176	GLN	N-CA-C	6.10	119.83	111.54
1	4S	111	LEU	N-CA-C	6.10	117.59	111.07
1	5c	103	ASP	N-CA-C	6.10	117.92	111.28
1	5F	6	LEU	N-CA-C	-6.10	105.80	113.18
1	5P	180	GLU	CA-C-N	6.10	128.24	120.56
1	5P	180	GLU	C-N-CA	6.10	128.24	120.56
1	6o	148	THR	N-CA-CB	6.10	119.00	110.04
1	6D	224	PRO	CA-C-O	-6.10	114.47	121.36
1	6I	13	GLN	O-C-N	-6.10	116.30	123.25
1	6J	152	ASP	N-CA-CB	-6.10	101.47	110.49
1	72	82	ARG	CA-C-O	6.10	126.66	119.28
1	77	80	TRP	N-CA-CB	-6.10	100.83	110.22
1	78	41	SER	N-CA-C	6.10	118.42	111.11
1	7r	57	ASN	N-CA-C	6.10	117.92	111.28
1	7K	96	MET	CA-C-N	6.10	131.07	121.56
1	7K	96	MET	C-N-CA	6.10	131.07	121.56
1	9o	226	HIS	CE1-NE2-CD2	-6.10	102.90	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Y	148	THR	CA-C-O	6.10	127.43	120.54
1	aj	90	PRO	N-CA-CB	6.10	108.65	103.35
1	am	171	THR	CA-C-N	6.10	129.58	120.31
1	am	171	THR	C-N-CA	6.10	129.58	120.31
1	aJ	183	ASN	CA-C-N	6.10	128.45	120.28
1	aJ	183	ASN	C-N-CA	6.10	128.45	120.28
1	14	54	THR	O-C-N	-6.10	115.66	122.12
1	b7	80	TRP	N-CA-CB	-6.10	100.91	110.30
1	bm	42	ALA	N-CA-C	6.10	117.92	111.28
1	c8	20	LEU	CA-C-N	6.10	128.45	120.28
1	c8	20	LEU	C-N-CA	6.10	128.45	120.28
1	ct	147	PRO	CA-C-N	6.10	129.42	120.82
1	ct	147	PRO	C-N-CA	6.10	129.42	120.82
1	cu	40	PHE	CA-C-N	6.10	128.95	120.29
1	cu	40	PHE	C-N-CA	6.10	128.95	120.29
1	cH	68	MET	CG-SD-CE	-6.10	87.49	100.90
1	cJ	219	GLN	CB-CG-CD	-6.10	102.24	112.60
1	dc	100	ARG	NE-CZ-NH2	6.10	124.69	119.20
1	dp	114	GLN	OE1-CD-NE2	-6.10	116.50	122.60
1	dR	55	MET	N-CA-C	6.10	117.92	111.28
1	eA	166	ASP	CA-C-O	6.10	127.01	120.55
1	eJ	9	GLN	CA-C-O	6.10	127.03	120.38
1	o	113	GLU	CA-C-N	6.10	128.37	120.44
1	o	113	GLU	C-N-CA	6.10	128.37	120.44
1	w	13	GLN	CA-C-O	-6.10	114.12	120.70
1	4	31	ALA	N-CA-C	6.10	119.65	111.24
1	T	203	LYS	CA-C-N	6.10	129.57	120.31
1	T	203	LYS	C-N-CA	6.10	129.57	120.31
1	gg	120	HIS	ND1-CE1-NE2	6.09	114.50	108.40
1	gF	98	GLU	CA-C-N	-6.09	112.83	120.51
1	gF	98	GLU	C-N-CA	-6.09	112.83	120.51
1	gQ	186	THR	N-CA-C	6.09	118.00	111.36
1	gW	211	LEU	O-C-N	-6.09	115.66	122.12
1	1H	129	ILE	N-CA-C	6.09	116.27	110.42
1	1I	222	GLY	CA-C-N	6.09	131.44	121.87
1	1I	222	GLY	C-N-CA	6.09	131.44	121.87
1	ht	155	GLN	OE1-CD-NE2	-6.09	116.50	122.60
1	hC	192	GLN	O-C-N	-6.09	115.66	122.12
1	hP	16	SER	N-CA-C	-6.09	101.90	110.31
1	1O	23	TRP	CB-CG-CD1	-6.09	117.76	126.90
1	1P	119	THR	CA-CB-OG1	6.09	118.74	109.60
1	iu	143	ARG	N-CA-C	6.09	117.72	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iG	57	ASN	O-C-N	-6.09	115.66	122.12
1	iM	79	GLU	CA-C-N	6.09	128.36	120.44
1	iM	79	GLU	C-N-CA	6.09	128.36	120.44
1	ji	161	PHE	CB-CA-C	6.09	122.55	110.42
1	jm	195	ASN	CA-C-O	-6.09	113.80	120.69
1	jr	100	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	1W	161	PHE	O-C-N	-6.09	115.79	122.07
1	jz	164	TYR	N-CA-C	6.09	118.70	111.33
1	jG	3	VAL	CA-C-N	6.09	129.37	120.71
1	jG	3	VAL	C-N-CA	6.09	129.37	120.71
1	jK	63	GLN	N-CA-C	-6.09	105.67	113.23
1	jK	201	ILE	O-C-N	-6.09	115.96	121.87
1	jS	67	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	jX	191	VAL	N-CA-C	6.09	116.84	110.62
1	20	113	GLU	N-CA-C	6.09	117.59	111.07
1	kb	94	GLY	O-C-N	-6.09	115.98	122.56
1	ko	83	LEU	N-CA-CB	-6.09	100.93	110.44
1	ku	148	THR	CA-CB-CG2	6.09	120.86	110.50
1	kw	2	ILE	CA-C-O	-6.09	113.82	120.71
1	kA	132	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	kJ	57	ASN	CA-CB-CG	-6.09	106.51	112.60
1	kQ	144	MET	CB-CA-C	6.09	120.91	110.79
1	kX	142	VAL	O-C-N	-6.09	115.92	121.89
1	lh	153	ILE	N-CA-C	6.09	118.41	109.63
1	28	229	ARG	N-CA-C	6.09	119.50	110.48
1	2r	210	THR	O-C-N	-6.09	115.62	122.75
1	2L	139	ASN	N-CA-C	6.09	118.89	111.82
1	31	62	HIS	CB-CG-CD2	-6.09	123.28	131.20
1	32	97	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	3h	196	PRO	CB-CA-C	-6.09	103.21	112.11
1	3G	138	LEU	N-CA-C	6.09	117.92	111.28
1	3V	159	GLU	N-CA-C	6.09	120.25	109.58
1	43	39	MET	CB-CA-C	6.09	120.45	110.88
1	4q	33	SER	CA-C-O	-6.09	111.81	120.16
1	4z	37	ILE	N-CA-CB	-6.09	106.44	110.52
1	4E	150	ILE	CA-C-N	6.09	128.36	120.44
1	4E	150	ILE	C-N-CA	6.09	128.36	120.44
1	4O	227	LYS	N-CA-C	6.09	118.34	108.41
1	57	84	HIS	CA-C-N	6.09	127.46	119.84
1	57	84	HIS	C-N-CA	6.09	127.46	119.84
1	5I	45	GLU	N-CA-C	6.09	117.92	111.28
1	5L	37	ILE	O-C-N	-6.09	114.15	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5T	110	THR	CA-CB-OG1	6.09	118.74	109.60
1	6x	185	MET	N-CA-C	6.09	117.92	111.28
1	6C	175	GLU	O-C-N	-6.09	115.37	122.87
1	6J	191	VAL	N-CA-C	6.09	116.27	110.42
1	6R	164	TYR	CB-CA-C	6.09	120.45	110.88
1	6U	94	GLY	CA-C-O	6.09	125.89	119.06
1	6Z	194	ALA	CA-C-O	6.09	129.22	120.51
1	7a	87	HIS	O-C-N	-6.09	115.62	122.75
1	7d	229	ARG	O-C-N	-6.09	116.07	122.96
1	7o	173	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
1	7u	20	LEU	N-CA-CB	6.09	118.85	110.01
1	7w	175	GLU	O-C-N	-6.09	115.02	122.82
1	7z	5	ASN	N-CA-C	6.09	118.83	110.24
1	7M	77	ALA	N-CA-C	6.09	118.89	111.82
1	7O	146	SER	CA-C-N	6.09	127.46	119.84
1	7O	146	SER	C-N-CA	6.09	127.46	119.84
1	89	63	GLN	N-CA-C	6.09	119.91	112.23
1	8i	92	GLU	O-C-N	-6.09	114.83	121.53
1	8C	67	GLN	CA-C-O	6.09	127.22	120.82
1	8I	27	VAL	CA-C-N	6.09	128.36	120.44
1	8I	27	VAL	C-N-CA	6.09	128.36	120.44
1	8V	141	ILE	CA-C-N	6.09	128.46	120.60
1	8V	141	ILE	C-N-CA	6.09	128.46	120.60
1	9s	216	THR	O-C-N	-6.09	115.03	122.34
1	9L	81	ASP	CA-C-N	6.09	128.45	120.28
1	9L	81	ASP	C-N-CA	6.09	128.45	120.28
1	9P	97	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	9U	166	ASP	CA-C-N	6.09	128.77	120.54
1	9U	166	ASP	C-N-CA	6.09	128.77	120.54
1	9Z	87	HIS	ND1-CE1-NE2	6.09	114.50	108.40
1	am	226	HIS	CG-CD2-NE2	6.09	113.29	107.20
1	aw	41	SER	O-C-N	-6.09	115.66	122.12
1	aw	102	SER	N-CA-C	6.09	118.72	111.71
1	aA	49	PRO	N-CA-CB	6.09	109.65	103.25
1	aJ	139	ASN	O-C-N	-6.09	115.79	122.07
1	aX	199	LYS	O-C-N	-6.09	115.20	122.15
1	19	198	CYS	CA-C-O	-6.09	114.38	120.90
1	bF	31	ALA	O-C-N	-6.09	114.48	122.59
1	bL	7	GLN	CA-C-O	-6.09	114.92	121.38
1	bM	5	ASN	O-C-N	-6.09	114.48	122.59
1	bW	62	HIS	ND1-CG-CD2	6.09	112.19	106.10
1	bY	25	LYS	CA-C-N	6.09	128.24	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	25	LYS	C-N-CA	6.09	128.24	120.56
1	bY	104	ILE	CA-C-O	-6.09	114.05	120.57
1	c4	26	VAL	N-CA-C	6.09	116.27	110.42
1	c7	164	TYR	CA-C-N	6.09	129.12	120.53
1	c7	164	TYR	C-N-CA	6.09	129.12	120.53
1	cc	166	ASP	CB-CA-C	6.09	120.91	110.79
1	cp	201	ILE	CB-CA-C	-6.09	103.91	112.14
1	1e	119	THR	N-CA-CB	6.09	121.04	110.98
1	cw	62	HIS	CB-CG-CD2	-6.09	123.28	131.20
1	cz	71	GLU	N-CA-C	6.09	118.70	111.33
1	cK	68	MET	CA-C-O	6.09	126.88	120.42
1	cU	167	ARG	CA-C-N	6.09	128.69	120.65
1	cU	167	ARG	C-N-CA	6.09	128.69	120.65
1	cW	131	LYS	CA-C-O	-6.09	114.38	120.90
1	d2	131	LYS	CA-CB-CG	6.09	126.29	114.10
1	d2	230	VAL	CB-CA-C	-6.09	103.91	112.14
1	d9	229	ARG	CA-C-O	6.09	126.57	119.32
1	1k	114	GLN	N-CA-C	6.09	118.00	111.36
1	dD	150	ILE	CA-C-N	6.09	129.06	120.28
1	dD	150	ILE	C-N-CA	6.09	129.06	120.28
1	dZ	117	TRP	N-CA-C	6.09	119.55	111.75
1	ex	14	ALA	N-CA-C	6.09	119.09	110.50
1	fc	51	ASP	CA-C-N	6.09	128.36	120.44
1	fc	51	ASP	C-N-CA	6.09	128.36	120.44
1	fg	49	PRO	N-CA-C	6.09	121.88	113.65
1	fq	138	LEU	N-CA-C	6.09	117.92	111.28
1	fv	118	MET	CA-C-O	6.09	126.65	119.28
1	fO	143	ARG	O-C-N	-6.09	115.20	122.15
1	fP	96	MET	CA-C-N	6.09	129.37	120.71
1	fP	96	MET	C-N-CA	6.09	129.37	120.71
1	fT	229	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	fZ	183	ASN	O-C-N	-6.09	115.20	122.15
1	d	62	HIS	CG-CD2-NE2	6.09	113.29	107.20
1	x	214	MET	N-CA-C	6.09	118.00	111.36
1	G	97	ARG	CA-C-N	6.09	129.35	120.51
1	G	97	ARG	C-N-CA	6.09	129.35	120.51
1	T	74	ASN	CA-C-N	6.09	128.36	120.44
1	T	74	ASN	C-N-CA	6.09	128.36	120.44
1	X	204	ALA	CA-C-O	-6.09	113.96	120.42
1	gi	129	ILE	N-CA-C	6.09	116.83	110.62
1	gl	150	ILE	N-CA-C	6.09	116.83	110.62
1	h8	85	PRO	N-CA-CB	6.09	108.17	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	71	GLU	CA-C-N	6.09	128.44	120.28
1	hr	71	GLU	C-N-CA	6.09	128.44	120.28
1	hJ	59	VAL	N-CA-C	6.09	116.93	108.89
1	hJ	161	PHE	CA-C-N	6.09	130.88	121.19
1	hJ	161	PHE	C-N-CA	6.09	130.88	121.19
1	hR	80	TRP	CB-CA-C	-6.09	100.67	110.79
1	hZ	169	TYR	N-CA-C	6.09	117.92	111.28
1	i3	206	GLY	O-C-N	-6.09	115.68	121.77
1	ig	173	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	ij	199	LYS	CA-C-N	6.09	128.44	120.28
1	ij	199	LYS	C-N-CA	6.09	128.44	120.28
1	iw	220	GLY	CA-C-O	6.09	131.17	120.57
1	iD	167	ARG	N-CA-C	6.09	118.89	111.82
1	j8	32	PHE	O-C-N	-6.09	115.91	123.04
1	jR	48	THR	CA-CB-OG1	6.09	118.74	109.60
1	k8	182	LYS	CA-C-O	6.09	126.87	119.31
1	kb	226	HIS	CG-CD2-NE2	6.09	113.29	107.20
1	ke	21	ASN	CA-C-O	-6.09	114.42	120.70
1	lj	217	ALA	N-CA-C	6.09	119.09	110.50
1	lN	126	VAL	CA-C-N	6.09	126.70	119.94
1	lN	126	VAL	C-N-CA	6.09	126.70	119.94
1	3E	4	GLN	N-CA-C	-6.09	97.82	110.80
1	3L	36	VAL	O-C-N	-6.09	115.96	121.87
1	48	33	SER	N-CA-CB	6.09	119.55	109.98
1	48	77	ALA	CA-C-N	6.09	128.36	120.44
1	48	77	ALA	C-N-CA	6.09	128.36	120.44
1	6o	69	LEU	CA-C-N	6.09	128.73	120.38
1	6o	69	LEU	C-N-CA	6.09	128.73	120.38
1	6z	66	MET	N-CA-CB	-6.09	101.16	110.12
1	6K	39	MET	CB-CA-C	-6.09	101.31	110.88
1	6M	201	ILE	CB-CA-C	6.09	120.02	112.04
1	6O	151	LEU	N-CA-C	6.09	118.70	111.33
1	6U	154	ARG	N-CA-C	6.09	119.42	109.06
1	6X	74	ASN	CB-CG-ND2	-6.09	107.26	116.40
1	7f	144	MET	N-CA-C	6.09	118.70	111.33
1	7i	5	ASN	OD1-CG-ND2	-6.09	116.51	122.60
1	7D	130	TYR	CB-CG-CD2	-6.09	111.66	120.80
1	7L	94	GLY	CA-C-N	6.09	132.11	122.36
1	7L	94	GLY	C-N-CA	6.09	132.11	122.36
1	87	68	MET	CA-C-N	6.09	128.44	120.28
1	87	68	MET	C-N-CA	6.09	128.44	120.28
1	8c	178	SER	CA-C-N	6.09	128.77	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8c	178	SER	C-N-CA	6.09	128.77	120.54
1	8f	179	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	93	179	GLN	CA-C-O	6.09	126.87	119.38
1	9d	149	SER	N-CA-C	-6.09	100.15	109.41
1	9m	84	HIS	CB-CA-C	-6.09	101.24	110.87
1	9G	75	GLU	N-CA-C	6.09	118.00	111.36
1	9H	219	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	9U	97	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	a9	84	HIS	CA-C-N	6.09	127.46	119.84
1	a9	84	HIS	C-N-CA	6.09	127.46	119.84
1	au	17	PRO	CA-C-N	6.09	128.69	120.65
1	au	17	PRO	C-N-CA	6.09	128.69	120.65
1	aU	178	SER	O-C-N	-6.09	115.49	122.68
1	bK	55	MET	O-C-N	-6.09	115.66	122.12
1	bX	226	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	cq	76	GLU	N-CA-CB	6.09	118.84	110.01
1	d0	204	ALA	N-CA-C	6.09	118.42	111.11
1	dF	183	ASN	CA-C-O	6.09	126.88	120.42
1	dX	149	SER	CA-C-N	6.09	129.12	120.53
1	dX	149	SER	C-N-CA	6.09	129.12	120.53
1	e7	177	ALA	N-CA-C	6.09	118.16	110.24
1	eg	201	ILE	O-C-N	-6.09	115.56	121.90
1	ej	223	GLY	CA-C-N	6.09	127.46	119.84
1	ej	223	GLY	C-N-CA	6.09	127.46	119.84
1	es	111	LEU	O-C-N	-6.09	115.10	122.11
1	eL	44	SER	O-C-N	-6.09	113.91	122.26
1	f2	156	GLY	O-C-N	-6.09	115.68	121.77
1	c	12	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	d	48	THR	N-CA-CB	-6.09	101.37	109.78
1	i	173	ARG	CA-CB-CG	6.09	126.29	114.10
1	o	95	GLN	CA-C-O	6.09	128.93	121.56
1	N	214	MET	CG-SD-CE	-6.09	87.50	100.90
1	P	58	THR	N-CA-C	-6.09	105.85	113.28
1	gd	11	VAL	N-CA-C	-6.09	99.39	108.46
1	gn	170	LYS	CA-C-N	6.09	128.44	120.28
1	gn	170	LYS	C-N-CA	6.09	128.44	120.28
1	gp	12	HIS	CA-C-N	6.09	132.15	122.59
1	gp	12	HIS	C-N-CA	6.09	132.15	122.59
1	gr	51	ASP	CA-C-O	6.09	127.01	120.55
1	gE	162	ARG	N-CA-C	6.09	117.92	111.28
1	gL	168	PHE	O-C-N	-6.09	115.75	122.09
1	gV	23	TRP	CB-CA-C	6.09	120.56	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hg	172	LEU	CA-C-N	6.09	128.44	120.28
1	hg	172	LEU	C-N-CA	6.09	128.44	120.28
1	hk	51	ASP	CA-CB-CG	-6.09	106.51	112.60
1	hl	87	HIS	CA-CB-CG	6.09	119.89	113.80
1	hN	128	GLU	CA-C-N	6.09	128.24	120.56
1	hN	128	GLU	C-N-CA	6.09	128.24	120.56
1	hT	95	GLN	O-C-N	-6.09	114.23	122.94
1	hY	196	PRO	N-CA-CB	6.09	109.52	102.88
1	i0	24	VAL	CA-C-N	6.09	128.44	120.28
1	i0	24	VAL	C-N-CA	6.09	128.44	120.28
1	i1	18	ARG	CB-CA-C	-6.09	101.28	110.90
1	ia	95	GLN	N-CA-C	6.09	119.83	111.54
1	1O	53	ASN	CA-C-N	6.09	128.94	120.29
1	1O	53	ASN	C-N-CA	6.09	128.94	120.29
1	ie	129	ILE	O-C-N	6.09	127.88	121.91
1	it	33	SER	CB-CA-C	6.09	118.20	109.92
1	iC	73	ILE	CA-C-N	6.09	128.72	120.38
1	iC	73	ILE	C-N-CA	6.09	128.72	120.38
1	iL	200	THR	CA-C-O	6.09	126.97	119.05
1	iS	127	GLY	O-C-N	6.09	128.70	122.24
1	iY	16	SER	CA-C-N	6.09	125.65	119.19
1	iY	16	SER	C-N-CA	6.09	125.65	119.19
1	j1	97	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	jp	87	HIS	O-C-N	-6.09	115.00	122.55
1	1W	68	MET	N-CA-CB	-6.09	100.47	110.40
1	jx	135	ILE	N-CA-C	6.09	116.83	110.62
1	jK	69	LEU	N-CA-C	6.09	117.59	111.07
1	jN	183	ASN	CA-C-N	6.09	128.72	120.44
1	jN	183	ASN	C-N-CA	6.09	128.72	120.44
1	kp	165	VAL	N-CA-C	6.09	116.87	110.72
1	kr	195	ASN	CA-CB-CG	6.09	118.69	112.60
1	ks	19	THR	OG1-CB-CG2	-6.09	97.11	109.30
1	ks	25	LYS	CB-CA-C	6.09	120.90	110.79
1	ks	47	ALA	O-C-N	6.09	130.32	122.89
1	kv	80	TRP	N-CA-C	6.09	117.92	111.28
1	kB	39	MET	N-CA-C	6.09	117.61	110.97
1	kL	1	PRO	N-CA-CB	6.09	109.70	103.00
1	kR	29	GLU	N-CA-C	6.09	117.59	111.07
1	l9	87	HIS	CB-CA-C	6.09	120.67	109.46
1	27	71	GLU	N-CA-C	6.09	117.92	111.28
1	28	92	GLU	CA-C-N	6.09	126.44	119.92
1	28	92	GLU	C-N-CA	6.09	126.44	119.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lt	68	MET	CA-C-N	6.09	128.76	120.54
1	lt	68	MET	C-N-CA	6.09	128.76	120.54
1	lu	154	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	2C	132	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
1	3g	201	ILE	CB-CA-C	6.09	119.42	111.81
1	3G	55	MET	CB-CA-C	-6.09	101.31	110.88
1	40	36	VAL	CA-C-O	-6.09	113.89	120.47
1	48	16	SER	O-C-N	-6.09	115.19	121.28
1	4d	18	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
1	4k	82	ARG	CD-NE-CZ	6.09	132.93	124.40
1	4W	33	SER	CA-C-O	-6.09	114.79	120.94
1	5e	146	SER	CA-C-N	6.09	125.98	119.28
1	5e	146	SER	C-N-CA	6.09	125.98	119.28
1	5q	65	ALA	N-CA-CB	6.09	118.84	110.01
1	5q	167	ARG	CA-C-O	6.09	127.22	120.82
1	5r	85	PRO	CA-C-N	6.09	132.93	121.97
1	5r	85	PRO	C-N-CA	6.09	132.93	121.97
1	5y	130	TYR	CA-C-N	6.09	128.36	120.44
1	5y	130	TYR	C-N-CA	6.09	128.36	120.44
1	5z	41	SER	CA-C-N	6.09	129.05	120.28
1	5z	41	SER	C-N-CA	6.09	129.05	120.28
1	5X	183	ASN	CA-C-O	6.09	127.77	121.07
1	69	57	ASN	CA-C-N	6.09	132.32	120.99
1	69	57	ASN	C-N-CA	6.09	132.32	120.99
1	6z	40	PHE	N-CA-CB	-6.09	100.56	109.82
1	6C	139	ASN	CB-CA-C	6.09	121.03	110.68
1	6G	53	ASN	CA-CB-CG	6.09	118.69	112.60
1	6J	75	GLU	CA-C-N	6.09	128.94	120.29
1	6J	75	GLU	C-N-CA	6.09	128.94	120.29
1	6R	45	GLU	N-CA-C	6.09	118.42	111.11
1	6V	63	GLN	CG-CD-NE2	6.09	125.54	116.40
1	6Y	16	SER	CA-C-N	6.09	125.98	119.28
1	6Y	16	SER	C-N-CA	6.09	125.98	119.28
1	6Z	73	ILE	CA-C-O	6.09	127.09	120.57
1	7a	184	TRP	CA-C-N	6.09	128.44	120.28
1	7a	184	TRP	C-N-CA	6.09	128.44	120.28
1	7k	173	ARG	CA-C-N	6.09	128.94	120.29
1	7k	173	ARG	C-N-CA	6.09	128.94	120.29
1	7l	115	ILE	CA-C-N	6.09	126.74	119.98
1	7l	115	ILE	C-N-CA	6.09	126.74	119.98
1	7z	202	LEU	CA-C-N	6.09	128.44	120.28
1	7z	202	LEU	C-N-CA	6.09	128.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	178	SER	N-CA-C	6.09	118.88	110.35
1	82	62	HIS	ND1-CG-CD2	6.09	112.19	106.10
1	8a	158	LYS	CA-C-N	6.09	128.83	120.67
1	8a	158	LYS	C-N-CA	6.09	128.83	120.67
1	8o	180	GLU	CA-C-O	6.09	127.22	120.82
1	8y	194	ALA	N-CA-C	6.09	119.06	110.23
1	8O	87	HIS	CA-CB-CG	-6.09	107.71	113.80
1	8O	165	VAL	O-C-N	-6.09	115.72	121.87
1	8P	133	TRP	CB-CG-CD2	-6.09	118.27	126.80
1	98	37	ILE	CA-C-O	-6.09	114.61	118.69
1	9f	33	SER	CA-C-O	-6.09	114.47	120.26
1	9s	114	GLN	N-CA-C	6.09	117.92	111.28
1	9J	29	GLU	N-CA-C	6.09	117.59	111.07
1	a2	139	ASN	O-C-N	-6.09	115.66	122.12
1	a9	5	ASN	OD1-CG-ND2	-6.09	116.51	122.60
1	11	38	PRO	N-CA-C	-6.09	105.59	113.57
1	ap	144	MET	CG-SD-CE	6.09	114.30	100.90
1	aC	226	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	aH	205	LEU	CA-C-N	6.09	131.44	121.87
1	aH	205	LEU	C-N-CA	6.09	131.44	121.87
1	17	36	VAL	N-CA-C	6.09	118.70	111.09
1	bl	120	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	bD	38	PRO	N-CA-CB	6.09	109.64	103.25
1	bM	211	LEU	CA-C-N	6.09	128.72	120.38
1	bM	211	LEU	C-N-CA	6.09	128.72	120.38
1	c6	172	LEU	CA-C-N	6.09	128.94	120.29
1	c6	172	LEU	C-N-CA	6.09	128.94	120.29
1	co	90	PRO	CB-CA-C	6.09	121.61	111.56
1	cF	193	ASN	CA-CB-CG	-6.09	106.51	112.60
1	1g	96	MET	CA-C-N	6.09	131.16	120.87
1	1g	96	MET	C-N-CA	6.09	131.16	120.87
1	cT	62	HIS	CB-CG-CD2	-6.09	123.28	131.20
1	d8	218	CYS	N-CA-C	6.09	120.04	112.24
1	dA	150	ILE	CA-C-N	6.09	130.35	120.60
1	dA	150	ILE	C-N-CA	6.09	130.35	120.60
1	ei	33	SER	N-CA-C	-6.09	102.65	108.07
1	ej	226	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	eo	228	ALA	N-CA-C	6.09	122.03	113.56
1	eH	195	ASN	CB-CA-C	6.09	119.14	109.52
1	eP	96	MET	CG-SD-CE	-6.09	87.50	100.90
1	1t	156	GLY	CA-C-O	-6.09	112.81	121.52
1	eQ	104	ILE	CA-C-O	6.09	127.63	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eX	40	PHE	CA-CB-CG	-6.09	107.71	113.80
1	fn	173	ARG	N-CA-C	6.09	117.92	111.28
1	fC	78	ALA	N-CA-C	6.09	117.92	111.28
1	1z	70	LYS	N-CA-C	6.09	118.00	111.36
1	fO	85	PRO	CB-CA-C	6.09	119.30	111.56
1	fS	51	ASP	CA-C-N	6.09	128.36	120.44
1	fS	51	ASP	C-N-CA	6.09	128.36	120.44
1	k	41	SER	N-CA-C	6.09	117.59	111.07
1	l	67	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	p	114	GLN	N-CA-C	6.09	117.59	111.07
1	2	69	LEU	N-CA-CB	-6.09	101.18	110.01
1	J	119	THR	CA-CB-OG1	6.09	118.74	109.60
1	L	121	ASN	O-C-N	-6.09	114.41	121.60
1	R	48	THR	CA-C-N	6.09	127.45	119.84
1	R	48	THR	C-N-CA	6.09	127.45	119.84
1	go	71	GLU	N-CA-C	6.09	118.71	111.71
1	gq	159	GLU	CA-C-N	6.09	127.45	119.84
1	gq	159	GLU	C-N-CA	6.09	127.45	119.84
1	gH	199	LYS	CA-C-N	6.09	128.36	120.44
1	gH	199	LYS	C-N-CA	6.09	128.36	120.44
1	1F	75	GLU	N-CA-C	6.09	118.71	111.71
1	gV	122	PRO	CA-C-N	6.09	126.45	119.93
1	gV	122	PRO	C-N-CA	6.09	126.45	119.93
1	hf	138	LEU	CA-C-N	6.09	129.05	120.28
1	hf	138	LEU	C-N-CA	6.09	129.05	120.28
1	hu	42	ALA	CA-C-O	6.09	126.88	120.42
1	hy	230	VAL	N-CA-C	6.09	122.00	109.34
1	hO	195	ASN	CA-C-O	-6.09	113.84	120.17
1	hW	228	ALA	CA-C-N	6.09	129.52	120.87
1	hW	228	ALA	C-N-CA	6.09	129.52	120.87
1	iE	104	ILE	N-CA-C	6.09	116.83	110.62
1	iM	58	THR	CA-CB-CG2	6.09	120.85	110.50
1	iQ	168	PHE	N-CA-C	6.09	117.58	111.07
1	iZ	107	THR	N-CA-CB	6.09	119.07	110.12
1	j2	218	CYS	CB-CA-C	-6.09	103.70	111.86
1	j5	66	MET	CG-SD-CE	-6.09	87.50	100.90
1	j9	195	ASN	CA-C-O	-6.09	114.59	119.71
1	1U	223	GLY	O-C-N	-6.09	116.94	122.42
1	jk	226	HIS	CA-CB-CG	6.09	119.89	113.80
1	jm	112	GLN	CA-C-N	6.09	128.94	120.29
1	jm	112	GLN	C-N-CA	6.09	128.94	120.29
1	jn	20	LEU	O-C-N	-6.09	115.67	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jF	202	LEU	N-CA-C	6.09	117.92	111.28
1	jM	96	MET	N-CA-C	6.09	118.16	110.24
1	k5	84	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	22	143	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	kv	201	ILE	O-C-N	-6.09	115.96	121.87
1	kI	32	PHE	N-CA-C	-6.09	99.31	109.24
1	l5	230	VAL	N-CA-C	-6.09	106.32	111.56
1	l6	220	GLY	CA-C-N	6.09	128.23	120.56
1	l6	220	GLY	C-N-CA	6.09	128.23	120.56
1	l8	153	ILE	CA-C-O	6.09	128.39	120.78
1	lm	117	TRP	CA-C-N	6.09	128.44	120.28
1	lm	117	TRP	C-N-CA	6.09	128.44	120.28
1	lu	210	THR	O-C-N	-6.09	115.56	122.68
1	lE	215	MET	CA-C-N	6.09	132.59	122.54
1	lE	215	MET	C-N-CA	6.09	132.59	122.54
1	lH	87	HIS	N-CA-CB	6.09	118.92	109.97
1	2n	165	VAL	N-CA-C	6.09	116.27	110.42
1	2V	178	SER	O-C-N	-6.09	115.54	122.97
1	2W	187	GLU	N-CA-C	6.09	118.00	111.36
1	3t	91	ILE	O-C-N	-6.09	116.35	122.62
1	3A	37	ILE	CA-C-O	-6.09	113.67	118.85
1	3N	18	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	3P	117	TRP	O-C-N	-6.09	115.67	122.12
1	4e	37	ILE	CA-C-N	6.09	125.49	118.85
1	4e	37	ILE	C-N-CA	6.09	125.49	118.85
1	4h	71	GLU	N-CA-C	6.09	117.92	111.28
1	4h	187	GLU	N-CA-C	6.09	117.61	110.97
1	4q	219	GLN	CB-CG-CD	6.09	122.95	112.60
1	4s	223	GLY	O-C-N	6.09	127.86	121.77
1	4C	37	ILE	O-C-N	-6.09	114.16	121.10
1	57	27	VAL	N-CA-CB	-6.09	103.43	110.55
1	5i	152	ASP	CA-CB-CG	6.09	118.69	112.60
1	5S	216	THR	N-CA-CB	6.09	120.17	110.73
1	5V	193	ASN	CA-C-N	6.09	133.17	121.54
1	5V	193	ASN	C-N-CA	6.09	133.17	121.54
1	6a	177	ALA	O-C-N	-6.09	114.49	122.59
1	6J	62	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	6K	195	ASN	O-C-N	6.09	128.32	121.32
1	6N	50	GLN	CG-CD-NE2	6.09	125.54	116.40
1	6Y	28	GLU	CA-C-O	-6.09	114.43	120.82
1	72	204	ALA	CA-C-N	6.09	128.36	120.44
1	72	204	ALA	C-N-CA	6.09	128.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	79	12	HIS	CB-CG-CD2	-6.09	123.28	131.20
1	7w	82	ARG	CA-C-N	6.09	128.94	120.29
1	7w	82	ARG	C-N-CA	6.09	128.94	120.29
1	7x	126	VAL	CA-C-O	6.09	127.05	120.47
1	7y	121	ASN	CB-CG-ND2	6.09	125.53	116.40
1	7L	76	GLU	N-CA-C	6.09	118.00	111.36
1	7Q	17	PRO	CA-C-N	6.09	128.76	120.54
1	7Q	17	PRO	C-N-CA	6.09	128.76	120.54
1	7R	164	TYR	O-C-N	-6.09	115.80	122.07
1	8a	71	GLU	N-CA-C	-6.09	105.34	112.89
1	8i	214	MET	N-CA-CB	6.09	118.84	110.01
1	8o	124	ILE	CA-C-O	-6.09	115.56	119.15
1	8q	217	ALA	CA-C-O	-6.09	114.09	121.28
1	8x	139	ASN	N-CA-C	6.09	117.92	111.28
1	9h	30	LYS	CB-CA-C	-6.09	99.28	109.27
1	9r	41	SER	N-CA-C	6.09	117.59	111.07
1	9v	132	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	9B	50	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	9I	28	GLU	CA-C-O	-6.09	114.42	120.82
1	9N	182	LYS	CA-C-O	6.09	127.00	120.55
1	9R	183	ASN	N-CA-C	6.09	117.92	111.28
1	a3	4	GLN	N-CA-C	6.09	118.63	110.35
1	af	146	SER	CA-C-O	-6.09	114.78	119.71
1	af	170	LYS	O-C-N	-6.09	115.80	122.07
1	ao	194	ALA	CA-C-N	6.09	128.85	120.39
1	ao	194	ALA	C-N-CA	6.09	128.85	120.39
1	aW	76	GLU	CB-CG-CD	6.09	122.95	112.60
1	be	169	TYR	CA-C-N	6.09	128.94	120.29
1	be	169	TYR	C-N-CA	6.09	128.94	120.29
1	bl	50	GLN	N-CA-C	6.09	117.58	111.07
1	bn	64	ALA	CA-C-O	-6.09	112.97	119.97
1	bp	83	LEU	N-CA-CB	-6.09	101.13	110.20
1	bF	104	ILE	O-C-N	-6.09	115.72	121.87
1	bG	12	HIS	CG-CD2-NE2	6.09	113.29	107.20
1	c4	78	ALA	CA-C-N	6.09	128.44	120.28
1	c4	78	ALA	C-N-CA	6.09	128.44	120.28
1	ck	110	THR	CA-CB-OG1	6.09	118.73	109.60
1	cs	124	ILE	N-CA-C	-6.09	102.12	108.15
1	cC	82	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	1g	182	LYS	O-C-N	-6.09	115.76	122.09
1	cM	182	LYS	N-CA-C	6.09	118.70	111.33
1	d8	166	ASP	CA-CB-CG	-6.09	106.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	147	PRO	CA-C-N	6.09	130.78	122.19
1	dn	147	PRO	C-N-CA	6.09	130.78	122.19
1	dD	63	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	eP	197	ASP	CA-C-N	6.09	128.36	120.44
1	eP	197	ASP	C-N-CA	6.09	128.36	120.44
1	f1	70	LYS	N-CA-CB	6.09	119.17	110.16
1	f8	12	HIS	CB-CG-ND1	6.09	131.83	122.70
1	fd	60	GLY	CA-C-N	6.09	128.97	121.06
1	fd	60	GLY	C-N-CA	6.09	128.97	121.06
1	fj	126	VAL	N-CA-C	6.09	116.83	110.62
1	1w	141	ILE	N-CA-CB	6.09	117.67	110.55
1	fB	82	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	fJ	226	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	fP	12	HIS	CB-CG-ND1	6.09	131.83	122.70
1	fQ	212	GLU	CA-C-N	6.09	128.94	120.29
1	fQ	212	GLU	C-N-CA	6.09	128.94	120.29
1	fR	84	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	fV	97	ARG	CA-C-N	6.09	131.03	121.17
1	fV	97	ARG	C-N-CA	6.09	131.03	121.17
1	p	207	PRO	CA-C-O	-6.09	114.40	121.34
1	y	99	PRO	N-CA-CB	-6.09	98.20	103.32
1	O	44	SER	CA-CB-OG	6.09	123.28	111.10
1	h5	5	ASN	CB-CA-C	6.09	119.88	110.14
1	1I	227	LYS	N-CA-C	6.09	120.04	111.52
1	hM	212	GLU	N-CA-C	6.09	117.92	111.28
1	iI	36	VAL	N-CA-C	6.09	116.75	110.36
1	jc	140	LYS	N-CA-C	6.09	117.58	111.07
1	jd	150	ILE	N-CA-C	6.09	118.66	111.05
1	jq	5	ASN	CA-CB-CG	6.09	118.69	112.60
1	1W	152	ASP	CA-C-O	6.09	126.68	119.56
1	jI	133	TRP	N-CA-C	6.09	117.92	111.28
1	kX	51	ASP	CA-C-N	6.09	128.35	120.44
1	kX	51	ASP	C-N-CA	6.09	128.35	120.44
1	2g	187	GLU	N-CA-C	6.09	118.88	111.82
1	2o	201	ILE	N-CA-C	6.09	116.56	110.23
1	3s	134	ILE	N-CA-CB	6.09	117.67	110.55
1	3t	120	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	3y	186	THR	CA-C-O	6.09	127.00	120.55
1	4q	110	THR	N-CA-CB	6.09	119.14	110.44
1	4y	140	LYS	CA-C-N	6.09	128.23	120.56
1	4y	140	LYS	C-N-CA	6.09	128.23	120.56
1	4G	114	GLN	CA-C-N	6.09	128.80	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4G	114	GLN	C-N-CA	6.09	128.80	120.46
1	5S	105	ALA	O-C-N	-6.09	113.54	122.43
1	5U	76	GLU	CA-C-N	6.09	128.35	120.44
1	5U	76	GLU	C-N-CA	6.09	128.35	120.44
1	62	137	GLY	CA-C-N	6.09	128.72	120.38
1	62	137	GLY	C-N-CA	6.09	128.72	120.38
1	6a	103	ASP	O-C-N	-6.09	115.21	122.15
1	6u	159	GLU	O-C-N	-6.09	116.14	121.31
1	6H	100	ARG	O-C-N	-6.09	115.78	122.84
1	6L	100	ARG	N-CA-CB	6.09	119.70	110.45
1	6M	174	ALA	CA-C-O	6.09	126.87	119.38
1	7e	175	GLU	N-CA-C	6.09	118.83	110.24
1	7B	117	TRP	CB-CG-CD1	-6.09	117.77	126.90
1	7L	33	SER	CA-C-N	6.09	126.53	119.47
1	7L	33	SER	C-N-CA	6.09	126.53	119.47
1	7U	118	MET	O-C-N	-6.09	114.06	122.46
1	8L	110	THR	CA-C-N	6.09	129.05	120.28
1	8L	110	THR	C-N-CA	6.09	129.05	120.28
1	98	68	MET	N-CA-C	6.09	118.88	111.82
1	9M	52	LEU	CA-C-N	6.09	128.44	120.28
1	9M	52	LEU	C-N-CA	6.09	128.44	120.28
1	a6	121	ASN	CA-C-O	-6.09	113.71	119.55
1	a9	84	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	an	53	ASN	N-CA-CB	6.09	119.01	109.94
1	an	126	VAL	O-C-N	-6.09	115.92	121.89
1	ar	50	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	aE	192	GLN	N-CA-C	6.09	117.92	111.28
1	bm	120	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	bo	37	ILE	CA-C-N	6.09	125.81	119.05
1	bo	37	ILE	C-N-CA	6.09	125.81	119.05
1	1b	53	ASN	CA-C-O	-6.09	114.10	120.55
1	1b	89	GLY	CA-C-N	6.09	127.45	119.84
1	1b	89	GLY	C-N-CA	6.09	127.45	119.84
1	cu	122	PRO	CA-C-N	6.09	126.10	119.89
1	cu	122	PRO	C-N-CA	6.09	126.10	119.89
1	cG	223	GLY	CA-C-N	6.09	127.45	119.84
1	cG	223	GLY	C-N-CA	6.09	127.45	119.84
1	cI	53	ASN	OD1-CG-ND2	6.09	128.69	122.60
1	1m	43	LEU	N-CA-C	-6.09	104.76	111.82
1	1m	124	ILE	N-CA-C	-6.09	100.79	107.73
1	dW	12	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	e1	155	GLN	O-C-N	6.09	130.30	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e1	229	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	e6	39	MET	CA-C-N	6.09	128.44	120.28
1	e6	39	MET	C-N-CA	6.09	128.44	120.28
1	eA	167	ARG	N-CA-CB	6.09	118.84	110.01
1	fR	131	LYS	N-CA-CB	-6.09	100.84	110.22
1	e	153	ILE	N-CA-C	6.09	119.40	109.78
1	e	184	TRP	CA-C-N	6.09	128.44	120.28
1	e	184	TRP	C-N-CA	6.09	128.44	120.28
1	p	84	HIS	CA-C-O	-6.09	114.69	119.99
1	7	103	ASP	O-C-N	-6.09	114.78	122.27
1	gt	82	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	gQ	81	ASP	CA-C-N	6.09	128.35	120.44
1	gQ	81	ASP	C-N-CA	6.09	128.35	120.44
1	gZ	109	SER	N-CA-CB	6.09	122.02	111.00
1	h5	87	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	hb	55	MET	CB-CA-C	6.09	120.94	110.84
1	hj	120	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	hp	190	LEU	N-CA-C	6.09	117.58	111.07
1	ht	104	ILE	O-C-N	-6.09	115.97	121.87
1	hu	62	HIS	CA-CB-CG	-6.09	107.71	113.80
1	hF	53	ASN	O-C-N	-6.09	115.67	122.12
1	1N	20	LEU	O-C-N	-6.09	115.21	122.15
1	ib	74	ASN	O-C-N	-6.09	115.21	122.15
1	ie	154	ARG	NE-CZ-NH2	-6.09	113.72	119.20
1	il	163	ASP	CA-CB-CG	-6.09	106.51	112.60
1	in	143	ARG	NH1-CZ-NH2	-6.09	111.39	119.30
1	iF	19	THR	CA-CB-CG2	6.09	120.85	110.50
1	iF	164	TYR	CA-C-O	-6.09	114.10	120.55
1	iM	105	ALA	CA-C-O	6.09	127.09	119.12
1	iP	62	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	jb	119	THR	N-CA-C	-6.09	105.61	113.16
1	jj	137	GLY	N-CA-C	6.09	121.21	113.24
1	jl	229	ARG	CA-C-O	6.09	128.56	121.87
1	jx	133	TRP	N-CA-CB	6.09	119.07	110.12
1	jK	62	HIS	ND1-CG-CD2	6.09	112.19	106.10
1	jM	141	ILE	N-CA-CB	6.09	121.79	110.77
1	1Y	8	GLY	CA-C-O	6.09	126.64	119.46
1	1Y	82	ARG	CA-C-N	6.09	128.93	120.29
1	1Y	82	ARG	C-N-CA	6.09	128.93	120.29
1	k5	7	GLN	CB-CG-CD	6.09	122.95	112.60
1	kl	155	GLN	N-CA-C	-6.09	100.08	109.76
1	kq	24	VAL	CA-C-N	6.09	128.35	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	24	VAL	C-N-CA	6.09	128.35	120.44
1	25	158	LYS	N-CA-C	-6.09	104.36	112.94
1	l1	219	GLN	CA-C-N	6.09	133.34	121.41
1	l1	219	GLN	C-N-CA	6.09	133.34	121.41
1	l4	110	THR	O-C-N	-6.09	116.24	123.06
1	ly	226	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	29	167	ARG	O-C-N	-6.09	115.67	122.12
1	2d	168	PHE	CA-C-N	6.09	131.79	121.14
1	2d	168	PHE	C-N-CA	6.09	131.79	121.14
1	2j	111	LEU	N-CA-C	6.09	118.69	111.33
1	2A	42	ALA	O-C-N	-6.09	115.80	122.07
1	2B	42	ALA	CA-C-N	6.09	129.56	120.31
1	2B	42	ALA	C-N-CA	6.09	129.56	120.31
1	2J	111	LEU	CB-CA-C	6.09	120.44	110.88
1	2J	113	GLU	CA-C-N	6.09	128.44	120.28
1	2J	113	GLU	C-N-CA	6.09	128.44	120.28
1	2S	160	PRO	N-CA-C	6.09	120.89	111.21
1	2T	90	PRO	N-CA-C	6.09	120.03	111.33
1	2Z	29	GLU	N-CA-C	6.09	119.90	112.23
1	37	193	ASN	CA-C-O	6.09	126.80	119.43
1	3p	69	LEU	CA-C-N	6.09	128.44	120.28
1	3p	69	LEU	C-N-CA	6.09	128.44	120.28
1	3A	171	THR	CA-C-O	6.09	126.97	119.97
1	3I	81	ASP	N-CA-C	6.09	118.88	111.82
1	3X	195	ASN	CA-C-O	-6.09	114.06	120.88
1	48	78	ALA	O-C-N	-6.09	115.80	122.07
1	4d	161	PHE	CB-CG-CD2	-6.09	110.35	120.70
1	4e	108	THR	CA-C-N	-6.09	114.11	122.93
1	4e	108	THR	C-N-CA	-6.09	114.11	122.93
1	4f	80	TRP	N-CA-C	6.09	118.69	111.33
1	4t	47	ALA	CA-C-O	6.09	127.63	120.69
1	4K	151	LEU	O-C-N	-6.09	114.41	122.20
1	51	84	HIS	ND1-CE1-NE2	6.09	114.49	108.40
1	5j	92	GLU	CA-C-N	6.09	127.45	119.84
1	5j	92	GLU	C-N-CA	6.09	127.45	119.84
1	5B	213	GLU	CB-CG-CD	6.09	122.95	112.60
1	5K	201	ILE	CB-CA-C	-6.09	103.82	112.22
1	68	146	SER	N-CA-C	6.09	117.06	109.57
1	6e	37	ILE	CA-C-O	-6.09	114.61	118.69
1	6z	111	LEU	N-CA-C	6.09	118.69	111.33
1	6B	18	ARG	CA-C-N	6.09	128.35	120.44
1	6B	18	ARG	C-N-CA	6.09	128.35	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	113	GLU	CA-C-N	6.09	128.35	120.44
1	6G	113	GLU	C-N-CA	6.09	128.35	120.44
1	6V	43	LEU	O-C-N	6.09	129.11	122.11
1	6W	164	TYR	O-C-N	-6.09	115.67	122.12
1	6Y	155	GLN	OE1-CD-NE2	-6.09	116.51	122.60
1	73	100	ARG	CA-C-N	6.09	126.73	119.98
1	73	100	ARG	C-N-CA	6.09	126.73	119.98
1	7y	187	GLU	N-CA-C	6.09	117.91	111.28
1	7y	201	ILE	N-CA-C	-6.09	104.57	110.72
1	7B	82	ARG	O-C-N	-6.09	114.78	122.27
1	7E	188	THR	CA-C-N	6.09	128.35	120.44
1	7E	188	THR	C-N-CA	6.09	128.35	120.44
1	7J	33	SER	O-C-N	-6.09	115.94	121.66
1	7T	226	HIS	N-CA-C	6.09	123.76	110.80
1	80	101	GLY	O-C-N	-6.09	115.92	122.19
1	81	181	VAL	N-CA-C	6.09	116.26	110.42
1	85	166	ASP	N-CA-CB	-6.09	101.17	110.12
1	8k	107	THR	CA-C-N	6.09	132.05	122.49
1	8k	107	THR	C-N-CA	6.09	132.05	122.49
1	8w	79	GLU	O-C-N	-6.09	115.67	122.12
1	8w	171	THR	N-CA-C	-6.09	106.01	113.50
1	8C	197	ASP	CA-CB-CG	6.09	118.69	112.60
1	8R	50	GLN	CA-C-N	6.09	128.72	120.44
1	8R	50	GLN	C-N-CA	6.09	128.72	120.44
1	8Y	1	PRO	CB-CA-C	6.09	121.67	110.10
1	96	124	ILE	CA-C-O	-6.09	114.76	119.20
1	9U	196	PRO	N-CA-CB	-6.09	96.63	103.33
1	9Y	103	ASP	N-CA-C	6.09	117.99	111.36
1	a5	200	THR	O-C-N	6.09	128.34	122.07
1	ac	227	LYS	O-C-N	-6.09	114.54	122.39
1	ak	129	ILE	CA-C-O	6.09	127.28	120.95
1	am	66	MET	N-CA-C	6.09	117.91	111.28
1	aL	6	LEU	CA-C-N	6.09	131.93	122.49
1	aL	6	LEU	C-N-CA	6.09	131.93	122.49
1	aM	141	ILE	CA-CB-CG1	6.09	120.75	110.40
1	b0	173	ARG	NE-CZ-NH1	6.09	127.59	121.50
1	bB	226	HIS	CA-CB-CG	6.09	119.89	113.80
1	bU	3	VAL	N-CA-C	-6.09	98.95	108.81
1	c2	19	THR	CA-C-N	6.09	128.72	120.44
1	c2	19	THR	C-N-CA	6.09	128.72	120.44
1	cg	205	LEU	CA-C-N	6.09	131.43	121.87
1	cg	205	LEU	C-N-CA	6.09	131.43	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cp	176	GLN	CA-C-N	6.09	129.94	120.75
1	cp	176	GLN	C-N-CA	6.09	129.94	120.75
1	cC	43	LEU	CA-C-O	6.09	126.97	119.97
1	cE	69	LEU	N-CA-C	6.09	118.69	111.33
1	cF	22	ALA	CA-C-N	6.09	128.44	120.28
1	cF	22	ALA	C-N-CA	6.09	128.44	120.28
1	cJ	192	GLN	N-CA-C	6.09	117.58	111.07
1	cL	208	ALA	N-CA-C	6.09	120.26	111.56
1	cQ	50	GLN	O-C-N	-6.09	115.67	122.12
1	cU	100	ARG	CA-C-N	6.09	126.85	120.03
1	cU	100	ARG	C-N-CA	6.09	126.85	120.03
1	dd	86	VAL	CA-CB-CG1	6.09	120.75	110.40
1	dv	146	SER	CA-C-N	6.09	126.44	119.93
1	dv	146	SER	C-N-CA	6.09	126.44	119.93
1	1l	137	GLY	CA-C-N	6.09	128.44	120.28
1	1l	137	GLY	C-N-CA	6.09	128.44	120.28
1	1n	16	SER	CA-C-N	6.09	126.26	119.32
1	1n	16	SER	C-N-CA	6.09	126.26	119.32
1	dY	170	LYS	CA-C-O	6.09	126.87	120.42
1	e7	54	THR	CA-CB-OG1	6.09	118.73	109.60
1	ec	64	ALA	N-CA-C	6.09	118.69	111.33
1	ed	115	ILE	N-CA-CB	6.09	118.82	110.54
1	ex	57	ASN	CA-CB-CG	6.09	118.69	112.60
1	eP	100	ARG	NH1-CZ-NH2	6.09	127.21	119.30
1	eX	168	PHE	O-C-N	-6.09	115.67	122.12
1	f8	27	VAL	CB-CA-C	6.09	120.36	112.14
1	f9	200	THR	CA-CB-OG1	6.09	118.73	109.60
1	fd	17	PRO	CA-C-N	6.09	128.35	120.44
1	fd	17	PRO	C-N-CA	6.09	128.35	120.44
1	fh	12	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	z	176	GLN	CA-C-N	6.09	129.48	120.90
1	z	176	GLN	C-N-CA	6.09	129.48	120.90
1	4	188	THR	N-CA-C	6.09	118.69	111.33
1	O	133	TRP	CA-C-O	-6.09	113.97	120.42
1	W	62	HIS	CE1-NE2-CD2	-6.09	102.91	109.00
1	X	22	ALA	CA-C-N	6.09	128.44	120.28
1	X	22	ALA	C-N-CA	6.09	128.44	120.28
1	1C	34	PRO	CA-C-N	6.08	130.43	120.63
1	1C	34	PRO	C-N-CA	6.08	130.43	120.63
1	go	112	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	hF	54	THR	CA-C-N	6.08	128.44	120.28
1	hF	54	THR	C-N-CA	6.08	128.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i8	118	MET	CA-C-O	6.08	126.86	119.38
1	ig	33	SER	CA-C-N	6.08	127.45	119.84
1	ig	33	SER	C-N-CA	6.08	127.45	119.84
1	ij	167	ARG	N-CA-C	6.08	117.91	111.28
1	iD	129	ILE	N-CA-CB	6.08	117.67	110.55
1	jj	136	LEU	N-CA-C	6.08	117.91	111.28
1	jw	62	HIS	CA-C-N	6.08	128.93	120.29
1	jw	62	HIS	C-N-CA	6.08	128.93	120.29
1	kj	199	LYS	CA-C-O	6.08	127.00	120.55
1	ko	55	MET	N-CA-CB	6.08	118.83	110.01
1	lp	230	VAL	O-C-N	-6.08	117.03	122.69
1	lC	154	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	2l	82	ARG	NE-CZ-NH2	6.08	124.68	119.20
1	2n	213	GLU	CA-C-N	6.08	128.75	120.54
1	2n	213	GLU	C-N-CA	6.08	128.75	120.54
1	2T	144	MET	CG-SD-CE	-6.08	87.51	100.90
1	3h	50	GLN	N-CA-CB	6.08	118.83	110.01
1	3D	108	THR	N-CA-CB	6.08	119.44	110.56
1	3H	197	ASP	CA-C-O	6.08	126.72	119.60
1	48	144	MET	N-CA-C	6.08	117.58	111.07
1	4a	129	ILE	CB-CA-C	-6.08	103.92	112.14
1	54	50	GLN	CA-C-N	6.08	128.93	120.29
1	54	50	GLN	C-N-CA	6.08	128.93	120.29
1	5L	125	PRO	N-CA-CB	-6.08	98.29	102.73
1	6g	114	GLN	CA-C-N	6.08	128.80	120.46
1	6g	114	GLN	C-N-CA	6.08	128.80	120.46
1	6s	29	GLU	CA-C-N	6.08	131.94	122.26
1	6s	29	GLU	C-N-CA	6.08	131.94	122.26
1	6A	92	GLU	CA-C-O	-6.08	115.42	120.71
1	6B	218	CYS	N-CA-C	6.08	119.64	111.24
1	6W	144	MET	CA-C-O	6.08	126.96	119.05
1	7a	106	GLY	CA-C-N	6.08	128.75	120.54
1	7a	106	GLY	C-N-CA	6.08	128.75	120.54
1	7M	86	VAL	N-CA-C	6.08	116.87	108.84
1	7N	122	PRO	CA-C-N	6.08	126.10	119.89
1	7N	122	PRO	C-N-CA	6.08	126.10	119.89
1	7O	23	TRP	CD2-CE2-CZ2	-6.08	116.31	122.40
1	9x	16	SER	O-C-N	-6.08	115.89	121.30
1	9I	81	ASP	CA-CB-CG	6.08	118.69	112.60
1	9V	87	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	aZ	135	ILE	CA-C-N	6.08	129.04	120.28
1	aZ	135	ILE	C-N-CA	6.08	129.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	81	ASP	O-C-N	-6.08	114.78	122.27
1	bU	132	ARG	NE-CZ-NH2	-6.08	113.72	119.20
1	ck	54	THR	N-CA-CB	6.08	118.83	110.01
1	cI	8	GLY	N-CA-C	6.08	121.82	112.81
1	d4	153	ILE	O-C-N	-6.08	116.46	122.67
1	db	27	VAL	CA-C-O	6.08	127.28	120.95
1	dl	193	ASN	CA-C-O	6.08	125.41	118.47
1	dw	21	ASN	N-CA-C	6.08	117.91	111.28
1	dz	137	GLY	CA-C-N	6.08	128.43	120.28
1	dz	137	GLY	C-N-CA	6.08	128.43	120.28
1	dC	48	THR	N-CA-CB	6.08	116.80	109.74
1	1m	23	TRP	O-C-N	-6.08	115.67	122.12
1	dO	123	PRO	N-CA-CB	6.08	108.67	103.19
1	e0	62	HIS	ND1-CG-CD2	6.08	112.19	106.10
1	e3	130	TYR	CA-C-O	6.08	126.87	120.42
1	ej	131	LYS	CB-CA-C	6.08	121.02	110.68
1	eo	119	THR	CA-C-N	6.08	131.15	120.87
1	eo	119	THR	C-N-CA	6.08	131.15	120.87
1	eU	136	LEU	CA-C-N	6.08	127.95	120.22
1	eU	136	LEU	C-N-CA	6.08	127.95	120.22
1	fv	45	GLU	N-CA-C	6.08	118.53	109.59
1	a	34	PRO	N-CA-C	-6.08	106.06	114.27
1	B	141	ILE	CA-C-O	-6.08	114.62	120.95
1	R	12	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	5	162	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	1D	188	THR	CA-C-N	6.08	128.72	120.38
1	1D	188	THR	C-N-CA	6.08	128.72	120.38
1	1D	215	MET	N-CA-C	6.08	117.99	111.36
1	gu	134	ILE	N-CA-C	6.08	116.25	110.53
1	gw	24	VAL	O-C-N	-6.08	115.97	121.87
1	gB	65	ALA	N-CA-C	6.08	117.58	111.07
1	gD	6	LEU	N-CA-C	6.08	118.82	110.24
1	gD	62	HIS	ND1-CG-CD2	6.08	112.18	106.10
1	gG	72	THR	O-C-N	-6.08	115.67	122.12
1	gN	79	GLU	N-CA-C	6.08	118.71	111.71
1	gR	229	ARG	CA-C-N	6.08	130.06	121.66
1	gR	229	ARG	C-N-CA	6.08	130.06	121.66
1	gZ	2	ILE	N-CA-CB	-6.08	104.09	110.72
1	hf	183	ASN	CA-C-N	6.08	128.43	120.28
1	hf	183	ASN	C-N-CA	6.08	128.43	120.28
1	1I	195	ASN	CA-CB-CG	6.08	118.68	112.60
1	hi	203	LYS	O-C-N	-6.08	115.67	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hn	183	ASN	CA-CB-CG	-6.08	106.52	112.60
1	hv	168	PHE	N-CA-C	6.08	118.41	111.11
1	hH	67	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	1L	3	VAL	O-C-N	-6.08	117.03	122.69
1	hV	88	ALA	N-CA-C	6.08	117.58	111.07
1	i3	37	ILE	CA-C-N	6.08	125.64	119.19
1	i3	37	ILE	C-N-CA	6.08	125.64	119.19
1	i5	39	MET	CA-C-N	6.08	128.75	120.54
1	i5	39	MET	C-N-CA	6.08	128.75	120.54
1	i8	210	THR	OG1-CB-CG2	-6.08	97.13	109.30
1	if	81	ASP	CA-CB-CG	-6.08	106.52	112.60
1	ig	177	ALA	N-CA-CB	-6.08	100.21	110.49
1	ij	154	ARG	NE-CZ-NH2	6.08	124.67	119.20
1	it	114	GLN	O-C-N	-6.08	115.80	122.07
1	iu	65	ALA	CA-C-N	6.08	128.43	120.28
1	iu	65	ALA	C-N-CA	6.08	128.43	120.28
1	iC	9	GLN	N-CA-CB	6.08	118.93	110.17
1	iJ	92	GLU	CA-C-N	6.08	126.11	119.90
1	iJ	92	GLU	C-N-CA	6.08	126.11	119.90
1	je	64	ALA	CA-C-N	6.08	128.35	120.44
1	je	64	ALA	C-N-CA	6.08	128.35	120.44
1	jq	23	TRP	CA-C-O	6.08	126.85	119.31
1	jB	143	ARG	CA-C-O	-6.08	114.06	120.63
1	jE	181	VAL	O-C-N	-6.08	115.86	121.94
1	ko	5	ASN	CA-CB-CG	-6.08	106.52	112.60
1	ko	90	PRO	N-CA-CB	6.08	109.64	103.25
1	kD	64	ALA	O-C-N	-6.08	115.22	122.15
1	kY	169	TYR	CA-C-O	-6.08	114.10	120.55
1	l7	141	ILE	CA-C-O	-6.08	114.72	121.17
1	lh	91	ILE	N-CA-C	-6.08	104.45	113.39
1	lv	126	VAL	N-CA-CB	6.08	119.70	110.58
1	2i	59	VAL	N-CA-C	6.08	116.27	108.12
1	2j	98	GLU	N-CA-CB	-6.08	98.55	109.68
1	2s	163	ASP	CA-CB-CG	6.08	118.68	112.60
1	2C	120	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	2H	230	VAL	CB-CA-C	-6.08	102.57	110.84
1	2K	18	ARG	CA-C-N	6.08	128.93	120.29
1	2K	18	ARG	C-N-CA	6.08	128.93	120.29
1	2N	133	TRP	CA-C-N	6.08	128.35	120.56
1	2N	133	TRP	C-N-CA	6.08	128.35	120.56
1	2T	131	LYS	N-CA-C	6.08	118.69	111.33
1	30	79	GLU	CA-C-N	6.08	128.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	30	79	GLU	C-N-CA	6.08	128.43	120.28
1	32	83	LEU	N-CA-C	6.08	117.58	111.07
1	37	12	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	3a	23	TRP	N-CA-C	6.08	117.91	111.28
1	3r	10	MET	N-CA-C	6.08	119.02	109.96
1	3x	203	LYS	CA-C-O	-6.08	114.43	120.82
1	3A	83	LEU	N-CA-C	6.08	118.41	111.11
1	3J	199	LYS	CA-C-O	-6.08	114.10	120.55
1	3M	67	GLN	CA-C-N	6.08	128.43	120.28
1	3M	67	GLN	C-N-CA	6.08	128.43	120.28
1	3N	64	ALA	CA-C-N	6.08	128.43	120.28
1	3N	64	ALA	C-N-CA	6.08	128.43	120.28
1	3Q	144	MET	CG-SD-CE	-6.08	87.52	100.90
1	3V	87	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	3W	58	THR	N-CA-C	6.08	118.88	111.82
1	40	35	GLU	N-CA-C	-6.08	104.56	112.23
1	4k	67	GLN	O-C-N	-6.08	115.67	122.12
1	4q	145	TYR	N-CA-C	6.08	117.71	111.14
1	4w	154	ARG	NE-CZ-NH2	-6.08	113.72	119.20
1	4D	98	GLU	CA-C-O	-6.08	113.68	120.25
1	4H	40	PHE	CA-C-N	6.08	128.43	120.28
1	4H	40	PHE	C-N-CA	6.08	128.43	120.28
1	4K	195	ASN	CA-CB-CG	-6.08	106.52	112.60
1	5c	143	ARG	CA-C-N	6.08	129.56	120.31
1	5c	143	ARG	C-N-CA	6.08	129.56	120.31
1	5g	226	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	5i	31	ALA	CB-CA-C	-6.08	109.57	116.63
1	5E	52	LEU	N-CA-C	6.08	117.91	111.28
1	5J	69	LEU	CA-C-N	6.08	128.43	120.28
1	5J	69	LEU	C-N-CA	6.08	128.43	120.28
1	5R	149	SER	N-CA-C	6.08	118.43	109.24
1	60	172	LEU	N-CA-CB	-6.08	101.18	110.12
1	6k	107	THR	CA-CB-CG2	6.08	120.84	110.50
1	6n	101	GLY	CA-C-O	6.08	127.32	121.05
1	6v	50	GLN	N-CA-C	6.08	117.91	111.28
1	6S	4	GLN	N-CA-CB	6.08	120.77	110.49
1	73	229	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
1	74	99	PRO	O-C-N	-6.08	115.67	123.03
1	76	103	ASP	CA-C-N	6.08	128.22	120.56
1	76	103	ASP	C-N-CA	6.08	128.22	120.56
1	7o	87	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	7q	122	PRO	CA-C-N	6.08	126.29	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	122	PRO	C-N-CA	6.08	126.29	119.90
1	7u	3	VAL	CA-CB-CG1	6.08	120.74	110.40
1	7z	218	CYS	CA-C-O	6.08	129.21	120.51
1	7I	18	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	7L	48	THR	N-CA-CB	6.08	116.65	109.72
1	7L	167	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
1	82	127	GLY	CA-C-N	6.08	128.43	120.28
1	82	127	GLY	C-N-CA	6.08	128.43	120.28
1	88	120	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	8i	51	ASP	CA-C-N	6.08	128.35	120.44
1	8i	51	ASP	C-N-CA	6.08	128.35	120.44
1	8l	183	ASN	N-CA-C	6.08	117.91	111.28
1	8E	230	VAL	O-C-N	-6.08	116.04	122.67
1	8H	124	ILE	N-CA-C	-6.08	98.10	107.71
1	8O	200	THR	CA-CB-OG1	6.08	118.72	109.60
1	8S	78	ALA	N-CA-C	6.08	117.91	111.28
1	90	195	ASN	CA-C-N	6.08	125.57	119.24
1	90	195	ASN	C-N-CA	6.08	125.57	119.24
1	9a	67	GLN	N-CA-C	6.08	117.58	111.07
1	9u	184	TRP	N-CA-CB	-6.08	100.85	110.28
1	9y	8	GLY	O-C-N	-6.08	114.79	122.70
1	a1	193	ASN	N-CA-C	-6.08	105.50	113.17
1	ae	45	GLU	N-CA-C	6.08	118.36	108.63
1	aj	75	GLU	CA-C-N	6.08	128.35	120.44
1	aj	75	GLU	C-N-CA	6.08	128.35	120.44
1	aJ	191	VAL	CB-CA-C	-6.08	101.31	111.29
1	aP	62	HIS	ND1-CG-CD2	6.08	112.18	106.10
1	aQ	41	SER	CA-C-N	6.08	129.04	120.28
1	aQ	41	SER	C-N-CA	6.08	129.04	120.28
1	bg	157	PRO	N-CA-CB	-6.08	96.86	103.25
1	19	100	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	bW	97	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	ce	154	ARG	NE-CZ-NH2	-6.08	113.72	119.20
1	cv	82	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
1	cQ	131	LYS	O-C-N	-6.08	115.67	122.12
1	d4	167	ARG	CA-C-N	6.08	128.43	120.28
1	d4	167	ARG	C-N-CA	6.08	128.43	120.28
1	de	191	VAL	N-CA-C	6.08	120.96	112.50
1	dg	62	HIS	N-CA-C	6.08	119.64	111.24
1	dn	62	HIS	O-C-N	-6.08	115.56	122.86
1	dw	42	ALA	CA-C-N	6.08	128.35	120.44
1	dw	42	ALA	C-N-CA	6.08	128.35	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dQ	194	ALA	O-C-N	-6.08	115.56	122.68
1	dZ	37	ILE	N-CA-C	6.08	120.28	112.67
1	e0	167	ARG	N-CA-CB	6.08	119.26	110.20
1	e9	140	LYS	CA-C-N	6.08	128.45	120.60
1	e9	140	LYS	C-N-CA	6.08	128.45	120.60
1	eh	132	ARG	NH1-CZ-NH2	-6.08	111.39	119.30
1	ek	218	CYS	CA-C-N	6.08	129.40	120.82
1	ek	218	CYS	C-N-CA	6.08	129.40	120.82
1	ep	162	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	eq	32	PHE	CA-C-O	6.08	127.01	120.32
1	et	225	GLY	O-C-N	-6.08	117.83	122.88
1	ew	27	VAL	CA-C-N	6.08	128.35	120.44
1	ew	27	VAL	C-N-CA	6.08	128.35	120.44
1	eG	190	LEU	N-CA-C	6.08	117.91	111.28
1	eL	114	GLN	CA-C-N	6.08	129.06	120.42
1	eL	114	GLN	C-N-CA	6.08	129.06	120.42
1	1u	12	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	fg	39	MET	N-CA-C	6.08	117.58	111.07
1	fm	84	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	fn	50	GLN	N-CA-C	6.08	117.91	111.28
1	fo	195	ASN	CB-CA-C	6.08	119.44	109.46
1	fx	13	GLN	O-C-N	-6.08	116.91	123.42
1	fB	139	ASN	O-C-N	-6.08	115.76	122.09
1	b	229	ARG	NE-CZ-NH2	6.08	124.67	119.20
1	c	180	GLU	N-CA-C	6.08	118.69	111.33
1	e	202	LEU	CA-C-N	6.08	128.43	120.28
1	e	202	LEU	C-N-CA	6.08	128.43	120.28
1	i	111	LEU	O-C-N	-6.08	115.76	122.09
1	v	84	HIS	O-C-N	-6.08	114.36	121.23
1	O	195	ASN	O-C-N	-6.08	115.15	121.60
1	P	13	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	gV	56	LEU	N-CA-C	6.08	117.58	111.07
1	gW	19	THR	CA-CB-CG2	6.08	120.84	110.50
1	he	194	ALA	O-C-N	-6.08	115.23	122.65
1	hs	24	VAL	O-C-N	-6.08	115.97	121.87
1	hA	211	LEU	CA-C-O	6.08	127.00	120.55
1	hX	124	ILE	CA-C-O	-6.08	114.76	119.20
1	i1	17	PRO	CA-C-N	6.08	128.71	120.44
1	i1	17	PRO	C-N-CA	6.08	128.71	120.44
1	ia	196	PRO	CB-CA-C	6.08	121.59	111.56
1	ih	124	ILE	N-CA-C	-6.08	101.62	107.76
1	1Q	198	CYS	CA-C-O	6.08	126.97	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iG	177	ALA	N-CA-CB	-6.08	101.56	110.26
1	iS	170	LYS	N-CA-C	6.08	118.69	111.33
1	iU	2	ILE	N-CA-C	6.08	116.87	108.84
1	j3	171	THR	CA-C-O	-6.08	114.44	120.70
1	jb	163	ASP	O-C-N	-6.08	115.52	122.09
1	jp	27	VAL	N-CA-C	6.08	116.82	110.62
1	jI	99	PRO	N-CA-C	6.08	120.80	110.95
1	jT	107	THR	CA-CB-OG1	6.08	118.72	109.60
1	jU	84	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	jX	168	PHE	CB-CA-C	6.08	122.52	110.42
1	k2	39	MET	CA-C-O	-6.08	114.43	120.82
1	k2	228	ALA	N-CA-CB	-6.08	101.14	110.44
1	kd	166	ASP	N-CA-C	6.08	118.41	111.11
1	kg	55	MET	CA-C-N	6.08	128.75	120.54
1	kg	55	MET	C-N-CA	6.08	128.75	120.54
1	ki	35	GLU	N-CA-C	6.08	119.80	112.38
1	22	100	ARG	O-C-N	-6.08	116.13	122.94
1	kC	137	GLY	CA-C-N	6.08	128.43	120.28
1	kC	137	GLY	C-N-CA	6.08	128.43	120.28
1	l4	181	VAL	CB-CA-C	-6.08	103.83	112.22
1	26	42	ALA	CA-C-O	6.08	126.86	120.42
1	l8	205	LEU	CA-C-N	6.08	131.42	121.87
1	l8	205	LEU	C-N-CA	6.08	131.42	121.87
1	ln	33	SER	CB-CA-C	6.08	118.74	109.56
1	lr	20	LEU	CA-C-O	6.08	127.00	120.55
1	2c	226	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	2i	226	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	2k	114	GLN	N-CA-C	6.08	117.99	111.36
1	2q	212	GLU	CB-CG-CD	6.08	122.94	112.60
1	2B	154	ARG	O-C-N	-6.08	117.11	123.56
1	2C	43	LEU	N-CA-C	6.08	118.69	111.33
1	2L	110	THR	CA-C-O	-6.08	114.82	121.87
1	3n	64	ALA	N-CA-CB	-6.08	100.85	110.28
1	3w	162	ARG	CD-NE-CZ	6.08	132.91	124.40
1	3z	82	ARG	CA-C-N	6.08	128.71	120.44
1	3z	82	ARG	C-N-CA	6.08	128.71	120.44
1	3R	178	SER	O-C-N	-6.08	115.47	122.89
1	43	226	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	4m	173	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	4u	58	THR	CA-C-O	-6.08	114.39	120.90
1	4L	204	ALA	CA-C-N	6.08	128.90	120.63
1	4L	204	ALA	C-N-CA	6.08	128.90	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	53	126	VAL	O-C-N	-6.08	114.93	121.80
1	5a	97	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	5R	113	GLU	CA-C-N	6.08	129.24	120.79
1	5R	113	GLU	C-N-CA	6.08	129.24	120.79
1	6n	80	TRP	N-CA-C	6.08	117.58	111.07
1	6x	54	THR	CA-C-O	6.08	127.00	120.55
1	6N	102	SER	O-C-N	-6.08	114.07	122.46
1	7i	97	ARG	NE-CZ-NH2	6.08	124.67	119.20
1	7s	140	LYS	CA-C-N	6.08	128.79	120.46
1	7s	140	LYS	C-N-CA	6.08	128.79	120.46
1	7w	144	MET	N-CA-C	6.08	118.41	111.11
1	7H	48	THR	N-CA-CB	6.08	118.25	110.04
1	7J	16	SER	N-CA-C	6.08	117.73	110.07
1	8c	73	ILE	N-CA-C	6.08	116.26	110.42
1	8w	83	LEU	CA-C-O	6.08	126.66	119.06
1	8M	196	PRO	N-CA-CB	-6.08	97.07	103.52
1	8O	220	GLY	N-CA-C	-6.08	106.85	115.30
1	8Y	168	PHE	N-CA-C	6.08	121.41	111.37
1	9f	63	GLN	N-CA-C	6.08	117.91	111.28
1	9l	89	GLY	O-C-N	6.08	127.85	121.77
1	9v	37	ILE	CA-C-O	-6.08	111.80	119.95
1	9F	178	SER	CA-C-N	6.08	130.88	120.72
1	9F	178	SER	C-N-CA	6.08	130.88	120.72
1	9H	97	ARG	NH1-CZ-NH2	6.08	127.21	119.30
1	a0	226	HIS	N-CA-C	6.08	118.15	110.24
1	10	124	ILE	O-C-N	-6.08	115.33	120.92
1	11	160	PRO	CA-C-N	6.08	128.35	120.44
1	11	160	PRO	C-N-CA	6.08	128.35	120.44
1	am	97	ARG	CA-C-N	6.08	128.92	120.65
1	am	97	ARG	C-N-CA	6.08	128.92	120.65
1	at	126	VAL	CA-C-N	6.08	126.69	120.00
1	at	126	VAL	C-N-CA	6.08	126.69	120.00
1	aK	12	HIS	CB-CG-ND1	6.08	131.82	122.70
1	aO	212	GLU	O-C-N	-6.08	115.11	122.22
1	aZ	120	HIS	N-CA-CB	-6.08	101.56	110.26
1	b0	40	PHE	CA-CB-CG	6.08	119.88	113.80
1	b8	40	PHE	CA-C-N	6.08	128.43	120.28
1	b8	40	PHE	C-N-CA	6.08	128.43	120.28
1	b8	178	SER	CA-C-N	6.08	128.43	120.28
1	b8	178	SER	C-N-CA	6.08	128.43	120.28
1	b8	226	HIS	CA-C-N	6.08	131.92	122.49
1	b8	226	HIS	C-N-CA	6.08	131.92	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bq	45	GLU	N-CA-CB	6.08	119.12	109.51
1	bw	135	ILE	N-CA-C	6.08	116.26	110.42
1	bw	168	PHE	CA-C-N	6.08	128.43	120.28
1	bw	168	PHE	C-N-CA	6.08	128.43	120.28
1	bA	39	MET	CG-SD-CE	-6.08	87.52	100.90
1	bU	16	SER	O-C-N	-6.08	115.47	121.19
1	bV	114	GLN	CA-C-O	6.08	127.00	120.55
1	bV	192	GLN	N-CA-C	6.08	118.69	111.33
1	1b	141	ILE	O-C-N	-6.08	115.95	121.91
1	ci	80	TRP	N-CA-C	6.08	117.58	111.07
1	co	69	LEU	CB-CA-C	6.08	120.43	110.88
1	cr	84	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	cK	12	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	cM	78	ALA	O-C-N	-6.08	115.11	122.22
1	cP	183	ASN	O-C-N	-6.08	115.52	122.09
1	1i	145	TYR	CA-CB-CG	-6.08	102.95	113.90
1	di	195	ASN	CB-CA-C	6.08	119.53	109.56
1	dm	115	ILE	CB-CA-C	6.08	120.35	112.14
1	1l	130	TYR	CB-CG-CD1	6.08	129.92	120.80
1	dz	107	THR	CA-C-O	-6.08	114.44	120.82
1	dD	181	VAL	CA-CB-CG1	6.08	120.74	110.40
1	1m	96	MET	CB-CA-C	6.08	122.00	110.51
1	e2	63	GLN	N-CA-C	6.08	118.69	111.33
1	e6	28	GLU	N-CA-C	6.08	117.91	111.28
1	ea	149	SER	CA-C-N	6.08	129.10	120.53
1	ea	149	SER	C-N-CA	6.08	129.10	120.53
1	eq	127	GLY	CA-C-N	6.08	128.75	120.54
1	eq	127	GLY	C-N-CA	6.08	128.75	120.54
1	eD	3	VAL	CA-C-N	6.08	131.22	122.40
1	eD	3	VAL	C-N-CA	6.08	131.22	122.40
1	eH	128	GLU	CA-C-N	6.08	128.34	120.56
1	eH	128	GLU	C-N-CA	6.08	128.34	120.56
1	eS	125	PRO	O-C-N	-6.08	114.96	122.26
1	fn	100	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	fT	48	THR	CA-C-N	6.08	127.44	119.84
1	fT	48	THR	C-N-CA	6.08	127.44	119.84
1	g7	91	ILE	O-C-N	-6.08	115.95	121.91
1	0	208	ALA	CA-C-N	6.08	130.12	121.42
1	0	208	ALA	C-N-CA	6.08	130.12	121.42
1	d	194	ALA	N-CA-CB	-6.08	101.66	110.36
1	m	15	ILE	CA-C-O	6.08	128.38	120.78
1	6	195	ASN	CA-C-N	6.08	126.25	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	195	ASN	C-N-CA	6.08	126.25	119.32
1	8	201	ILE	N-CA-C	6.08	116.26	110.42
1	gm	162	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	1D	210	THR	N-CA-CB	6.08	119.01	109.83
1	gB	210	THR	N-CA-CB	6.08	119.01	109.83
1	h3	134	ILE	CA-CB-CG1	6.08	120.74	110.40
1	hl	134	ILE	O-C-N	6.08	127.77	121.87
1	hm	120	HIS	O-C-N	-6.08	115.86	122.79
1	hm	210	THR	N-CA-C	6.08	117.89	110.41
1	hG	194	ALA	CA-C-N	6.08	130.76	121.03
1	hG	194	ALA	C-N-CA	6.08	130.76	121.03
1	hV	86	VAL	N-CA-CB	6.08	121.26	111.23
1	ih	87	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	iI	137	GLY	CA-C-N	6.08	128.92	120.29
1	iI	137	GLY	C-N-CA	6.08	128.92	120.29
1	jc	103	ASP	O-C-N	6.08	129.08	122.15
1	jr	190	LEU	N-CA-C	6.08	118.41	111.11
1	js	125	PRO	CA-C-N	6.08	129.10	120.53
1	js	125	PRO	C-N-CA	6.08	129.10	120.53
1	js	152	ASP	N-CA-CB	6.08	121.39	110.32
1	jM	1	PRO	CA-C-N	6.08	130.31	121.80
1	jM	1	PRO	C-N-CA	6.08	130.31	121.80
1	jV	91	ILE	O-C-N	-6.08	116.48	122.93
1	ka	116	GLY	CA-C-N	6.08	128.43	120.28
1	ka	116	GLY	C-N-CA	6.08	128.43	120.28
1	kz	110	THR	O-C-N	-6.08	116.13	122.94
1	kE	56	LEU	N-CA-C	6.08	117.91	111.28
1	kG	159	GLU	O-C-N	-6.08	115.89	121.30
1	lc	134	ILE	CA-C-O	-6.08	114.30	121.05
1	le	167	ARG	N-CA-C	6.08	117.91	111.28
1	lt	140	LYS	N-CA-C	6.08	118.41	111.11
1	lv	187	GLU	N-CA-C	6.08	117.58	111.07
1	2t	224	PRO	N-CA-CB	6.08	109.64	103.25
1	2J	2	ILE	N-CA-C	6.08	115.48	106.85
1	2P	152	ASP	CA-CB-CG	-6.08	106.52	112.60
1	2Q	46	GLY	CA-C-N	6.08	129.34	120.71
1	2Q	46	GLY	C-N-CA	6.08	129.34	120.71
1	2V	163	ASP	N-CA-C	6.08	117.91	111.28
1	3h	169	TYR	N-CA-C	6.08	117.58	111.07
1	4p	132	ARG	NE-CZ-NH2	6.08	124.67	119.20
1	4u	3	VAL	O-C-N	-6.08	116.07	123.00
1	4y	18	ARG	N-CA-C	6.08	118.41	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	39	MET	N-CA-C	6.08	117.91	111.28
1	4U	171	THR	CA-C-N	6.08	128.92	120.29
1	4U	171	THR	C-N-CA	6.08	128.92	120.29
1	56	176	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	5c	64	ALA	O-C-N	6.08	129.08	122.15
1	5e	185	MET	N-CA-C	6.08	117.91	111.28
1	5M	205	LEU	N-CA-C	6.08	117.91	111.28
1	5Q	195	ASN	CA-C-O	-6.08	113.85	120.17
1	6e	68	MET	N-CA-C	6.08	118.87	111.82
1	6I	162	ARG	N-CA-C	6.08	117.99	111.36
1	71	218	CYS	N-CA-C	6.08	120.03	111.52
1	7G	137	GLY	O-C-N	-6.08	116.35	122.19
1	7L	73	ILE	N-CA-C	6.08	116.26	110.42
1	8k	133	TRP	CB-CG-CD1	6.08	136.02	126.90
1	8B	96	MET	N-CA-C	6.08	119.42	110.30
1	8L	30	LYS	CA-C-N	6.08	128.34	120.44
1	8L	30	LYS	C-N-CA	6.08	128.34	120.44
1	9c	167	ARG	N-CA-CB	6.08	118.83	110.01
1	9j	227	LYS	CA-C-N	6.08	129.47	120.90
1	9j	227	LYS	C-N-CA	6.08	129.47	120.90
1	a6	80	TRP	CG-CD2-CE3	6.08	139.98	133.90
1	a8	167	ARG	NE-CZ-NH2	6.08	124.67	119.20
1	aN	220	GLY	CA-C-N	6.08	128.65	120.50
1	aN	220	GLY	C-N-CA	6.08	128.65	120.50
1	aZ	48	THR	CA-C-N	6.08	127.44	119.84
1	aZ	48	THR	C-N-CA	6.08	127.44	119.84
1	b2	215	MET	CG-SD-CE	-6.08	87.52	100.90
1	bp	195	ASN	CB-CA-C	6.08	122.15	110.17
1	br	69	LEU	N-CA-CB	6.08	118.83	110.01
1	bx	154	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	ch	42	ALA	N-CA-CB	-6.08	100.86	110.28
1	ci	172	LEU	CA-C-N	6.08	129.26	120.38
1	ci	172	LEU	C-N-CA	6.08	129.26	120.38
1	e4	226	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	eb	43	LEU	N-CA-C	6.08	120.54	113.18
1	el	174	ALA	N-CA-C	6.08	117.91	111.28
1	er	18	ARG	CA-C-N	6.08	128.92	120.29
1	er	18	ARG	C-N-CA	6.08	128.92	120.29
1	eD	87	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	eK	154	ARG	NH1-CZ-NH2	-6.08	111.40	119.30
1	eW	131	LYS	O-C-N	-6.08	115.11	122.22
1	f7	114	GLN	N-CA-C	6.08	117.58	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fn	57	ASN	N-CA-C	6.08	117.91	111.28
1	1x	92	GLU	CA-C-N	6.08	127.44	119.84
1	1x	92	GLU	C-N-CA	6.08	127.44	119.84
1	fu	53	ASN	O-C-N	-6.08	115.67	122.12
1	fI	18	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	q	117	TRP	N-CA-C	6.08	118.70	111.71
1	y	21	ASN	N-CA-C	6.08	118.41	111.11
1	V	174	ALA	CA-C-O	6.08	126.96	119.97
1	X	110	THR	CA-CB-OG1	6.08	118.72	109.60
1	gq	12	HIS	CB-CA-C	6.08	120.29	109.65
1	gr	191	VAL	N-CA-CB	-6.08	102.83	112.07
1	gv	184	TRP	N-CA-C	6.08	117.91	111.28
1	gw	172	LEU	CA-C-O	6.08	126.99	120.55
1	gA	109	SER	CA-C-N	6.08	130.49	120.94
1	gA	109	SER	C-N-CA	6.08	130.49	120.94
1	gK	191	VAL	CB-CA-C	-6.08	104.28	111.94
1	1F	188	THR	CA-C-N	6.08	133.15	121.54
1	1F	188	THR	C-N-CA	6.08	133.15	121.54
1	gM	133	TRP	CB-CG-CD2	-6.08	118.29	126.80
1	gT	148	THR	N-CA-C	-6.08	100.79	108.45
1	h3	171	THR	CA-C-N	6.08	128.34	120.44
1	h3	171	THR	C-N-CA	6.08	128.34	120.44
1	hl	88	ALA	O-C-N	-6.08	115.39	122.87
1	ho	6	LEU	CA-C-O	6.08	121.47	117.94
1	hu	120	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	hN	215	MET	O-C-N	-6.08	115.68	122.12
1	hO	75	GLU	N-CA-C	6.08	117.57	111.07
1	hY	104	ILE	N-CA-CB	6.08	118.35	110.57
1	i5	134	ILE	CA-C-N	6.08	128.22	120.56
1	i5	134	ILE	C-N-CA	6.08	128.22	120.56
1	i5	164	TYR	CA-CB-CG	6.08	124.84	113.90
1	ic	75	GLU	N-CA-C	6.08	117.91	111.28
1	iv	122	PRO	N-CD-CG	6.08	111.09	103.80
1	iG	229	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	iJ	17	PRO	N-CA-C	6.08	123.63	113.78
1	iM	37	ILE	CA-C-N	6.08	125.48	118.85
1	iM	37	ILE	C-N-CA	6.08	125.48	118.85
1	iP	170	LYS	N-CA-C	6.08	117.91	111.28
1	iR	39	MET	CA-C-N	6.08	128.42	120.28
1	iR	39	MET	C-N-CA	6.08	128.42	120.28
1	iX	61	GLY	O-C-N	-6.08	117.97	122.71
1	j9	55	MET	CA-C-N	6.08	128.34	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j9	55	MET	C-N-CA	6.08	128.34	120.44
1	jc	108	THR	CA-CB-OG1	6.08	118.72	109.60
1	jg	65	ALA	N-CA-C	6.08	117.91	111.28
1	jj	73	ILE	N-CA-CB	6.08	117.66	110.55
1	jv	192	GLN	CA-C-N	6.08	131.78	121.14
1	jv	192	GLN	C-N-CA	6.08	131.78	121.14
1	kh	141	ILE	CA-CB-CG1	6.08	120.73	110.40
1	kj	98	GLU	O-C-N	-6.08	115.04	121.30
1	kk	26	VAL	N-CA-C	6.08	116.86	110.72
1	23	200	THR	N-CA-C	6.08	118.40	111.11
1	kN	81	ASP	CA-CB-CG	6.08	118.68	112.60
1	24	102	SER	CA-C-O	6.08	126.96	119.97
1	kQ	89	GLY	O-C-N	-6.08	115.69	121.77
1	kV	39	MET	CG-SD-CE	-6.08	87.53	100.90
1	kZ	210	THR	CA-CB-OG1	6.08	118.72	109.60
1	l1	154	ARG	CA-C-O	6.08	127.58	120.89
1	l6	221	VAL	CA-C-N	6.08	126.69	120.00
1	l6	221	VAL	C-N-CA	6.08	126.69	120.00
1	l8	11	VAL	CA-C-N	6.08	130.02	121.02
1	l8	11	VAL	C-N-CA	6.08	130.02	121.02
1	l8	151	LEU	O-C-N	-6.08	114.07	122.46
1	lq	66	MET	N-CA-C	6.08	118.40	111.11
1	lJ	142	VAL	CB-CA-C	-6.08	104.19	111.97
1	2r	17	PRO	CB-CA-C	-6.08	103.23	112.11
1	2v	194	ALA	N-CA-C	6.08	118.14	110.24
1	2w	11	VAL	N-CA-C	6.08	116.90	109.30
1	2A	177	ALA	N-CA-C	6.08	118.62	110.35
1	2P	180	GLU	N-CA-C	6.08	117.91	111.28
1	34	193	ASN	CA-CB-CG	6.08	118.68	112.60
1	3j	214	MET	O-C-N	-6.08	115.68	122.12
1	3m	139	ASN	O-C-N	6.08	128.33	122.07
1	3r	39	MET	CG-SD-CE	-6.08	87.53	100.90
1	3r	132	ARG	CB-CA-C	6.08	120.88	110.79
1	3s	6	LEU	N-CA-CB	6.08	120.11	110.57
1	3t	156	GLY	O-C-N	-6.08	115.69	121.77
1	3L	120	HIS	O-C-N	-6.08	115.51	122.68
1	3U	104	ILE	N-CA-C	6.08	116.86	110.72
1	3W	195	ASN	CA-C-O	-6.08	113.82	120.87
1	40	183	ASN	CA-CB-CG	-6.08	106.52	112.60
1	4f	12	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	4n	146	SER	CA-C-N	6.08	127.44	119.84
1	4n	146	SER	C-N-CA	6.08	127.44	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	171	THR	N-CA-C	-6.08	104.00	112.45
1	4D	183	ASN	CA-C-N	6.08	128.92	120.29
1	4D	183	ASN	C-N-CA	6.08	128.92	120.29
1	4O	107	THR	N-CA-C	6.08	121.40	111.37
1	4Q	45	GLU	N-CA-C	6.08	117.91	111.28
1	4W	158	LYS	CA-C-N	6.08	129.52	120.83
1	4W	158	LYS	C-N-CA	6.08	129.52	120.83
1	5e	101	GLY	N-CA-C	6.08	120.25	112.83
1	5g	64	ALA	CA-C-O	6.08	126.99	120.55
1	5g	201	ILE	N-CA-C	6.08	116.82	110.62
1	5j	82	ARG	CA-C-O	-6.08	113.98	120.42
1	5n	163	ASP	CA-C-N	6.08	128.43	120.28
1	5n	163	ASP	C-N-CA	6.08	128.43	120.28
1	5y	55	MET	CA-C-N	6.08	128.34	120.44
1	5y	55	MET	C-N-CA	6.08	128.34	120.44
1	5y	210	THR	CA-C-N	6.08	128.34	120.44
1	5y	210	THR	C-N-CA	6.08	128.34	120.44
1	5I	146	SER	CA-C-O	-6.08	114.60	119.71
1	5K	90	PRO	CA-C-N	6.08	131.44	122.99
1	5K	90	PRO	C-N-CA	6.08	131.44	122.99
1	5K	165	VAL	CA-C-N	6.08	128.34	120.44
1	5K	165	VAL	C-N-CA	6.08	128.34	120.44
1	67	37	ILE	CB-CA-C	-6.08	107.92	113.70
1	68	135	ILE	N-CA-C	6.08	116.82	110.62
1	6c	166	ASP	N-CA-C	6.08	117.91	111.28
1	6i	114	GLN	O-C-N	-6.08	115.68	122.12
1	6n	165	VAL	N-CA-C	6.08	116.25	110.42
1	6E	200	THR	N-CA-C	-6.08	104.57	111.07
1	6L	25	LYS	N-CA-C	6.08	117.91	111.28
1	6O	37	ILE	O-C-N	-6.08	115.75	120.07
1	6W	215	MET	CG-SD-CE	-6.08	87.53	100.90
1	71	182	LYS	N-CA-CB	-6.08	101.20	110.01
1	7m	143	ARG	CA-C-O	6.08	126.99	120.55
1	7s	116	GLY	CA-C-N	6.08	128.92	120.29
1	7s	116	GLY	C-N-CA	6.08	128.92	120.29
1	7N	15	ILE	N-CA-C	6.08	117.26	109.30
1	7P	212	GLU	CA-C-N	6.08	128.43	120.28
1	7P	212	GLU	C-N-CA	6.08	128.43	120.28
1	81	112	GLN	O-C-N	-6.08	114.79	122.27
1	8e	92	GLU	O-C-N	-6.08	115.53	121.18
1	8p	100	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	8Z	120	HIS	CG-CD2-NE2	6.08	113.28	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	99	25	LYS	CA-C-N	6.08	128.22	120.56
1	99	25	LYS	C-N-CA	6.08	128.22	120.56
1	9b	4	GLN	N-CA-CB	6.08	119.01	109.83
1	9g	222	GLY	CA-C-N	6.08	131.41	121.87
1	9g	222	GLY	C-N-CA	6.08	131.41	121.87
1	9h	127	GLY	N-CA-C	6.08	120.55	112.77
1	9W	87	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	a0	121	ASN	O-C-N	-6.08	113.02	121.47
1	a0	130	TYR	N-CA-C	6.08	117.57	111.07
1	a4	76	GLU	N-CA-C	6.08	118.87	111.82
1	a8	185	MET	CG-SD-CE	-6.08	87.53	100.90
1	az	132	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	aR	208	ALA	N-CA-C	6.08	118.40	111.11
1	aT	70	LYS	O-C-N	-6.08	115.68	122.12
1	aT	73	ILE	N-CA-C	-6.08	104.58	110.42
1	aZ	189	LEU	CA-C-N	6.08	128.75	120.54
1	aZ	189	LEU	C-N-CA	6.08	128.75	120.54
1	bd	62	HIS	CA-C-N	6.08	131.01	120.68
1	bd	62	HIS	C-N-CA	6.08	131.01	120.68
1	bh	135	ILE	O-C-N	-6.08	115.97	121.87
1	bY	87	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	bZ	35	GLU	CA-C-N	6.08	128.79	120.46
1	bZ	35	GLU	C-N-CA	6.08	128.79	120.46
1	cb	114	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	cn	61	GLY	CA-C-N	6.08	131.45	122.82
1	cn	61	GLY	C-N-CA	6.08	131.45	122.82
1	1f	145	TYR	CA-C-O	6.08	126.46	119.35
1	cK	142	VAL	O-C-N	-6.08	115.95	121.91
1	cM	9	GLN	CA-C-N	6.08	129.50	120.87
1	cM	9	GLN	C-N-CA	6.08	129.50	120.87
1	d0	137	GLY	N-CA-C	6.08	121.35	113.27
1	d4	23	TRP	CB-CA-C	6.08	120.42	110.88
1	db	55	MET	CG-SD-CE	-6.08	87.53	100.90
1	dc	23	TRP	CA-CB-CG	6.08	125.15	113.60
1	dd	63	GLN	N-CA-C	6.08	117.91	111.28
1	dz	37	ILE	O-C-N	-6.08	116.53	120.42
1	dB	34	PRO	CA-C-N	6.08	129.03	120.28
1	dB	34	PRO	C-N-CA	6.08	129.03	120.28
1	dI	68	MET	N-CA-C	6.08	117.91	111.28
1	dW	18	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	1o	92	GLU	CA-C-N	6.08	127.44	119.84
1	1o	92	GLU	C-N-CA	6.08	127.44	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e4	10	MET	CG-SD-CE	-6.08	87.53	100.90
1	e8	226	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	ep	230	VAL	O-C-N	-6.08	117.13	123.03
1	ew	81	ASP	O-C-N	-6.08	115.81	122.07
1	eF	219	GLN	O-C-N	-6.08	116.14	123.13
1	eO	17	PRO	CA-C-N	6.08	128.75	120.54
1	eO	17	PRO	C-N-CA	6.08	128.75	120.54
1	eR	36	VAL	O-C-N	-6.08	115.07	122.12
1	eV	226	HIS	CE1-NE2-CD2	-6.08	102.92	109.00
1	eX	167	ARG	N-CA-C	6.08	117.58	111.07
1	f5	229	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	fa	120	HIS	N-CA-C	6.08	118.62	110.35
1	fj	193	ASN	N-CA-C	-6.08	105.44	112.92
1	fr	131	LYS	O-C-N	-6.08	115.77	122.09
1	fv	119	THR	N-CA-C	-6.08	104.49	113.61
1	fE	156	GLY	CA-C-N	6.08	125.63	119.19
1	fE	156	GLY	C-N-CA	6.08	125.63	119.19
1	fF	154	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	fK	211	LEU	N-CA-C	6.08	117.91	111.28
1	fR	97	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	g3	150	ILE	O-C-N	6.08	128.04	121.90
1	a	34	PRO	N-CA-CB	6.08	108.97	103.20
1	2	163	ASP	CA-CB-CG	6.08	118.68	112.60
1	gW	88	ALA	CA-C-N	6.08	131.41	121.87
1	gW	88	ALA	C-N-CA	6.08	131.41	121.87
1	gX	197	ASP	CA-CB-CG	-6.08	106.52	112.60
1	gZ	158	LYS	CA-C-O	6.08	125.73	119.05
1	hh	134	ILE	CA-C-N	6.08	128.79	120.46
1	hh	134	ILE	C-N-CA	6.08	128.79	120.46
1	hE	18	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	hH	168	PHE	O-C-N	-6.08	115.71	122.03
1	it	66	MET	N-CA-C	6.08	117.57	111.07
1	j5	137	GLY	CA-C-N	6.08	128.70	120.44
1	j5	137	GLY	C-N-CA	6.08	128.70	120.44
1	j8	129	ILE	CA-C-N	6.08	128.34	120.44
1	j8	129	ILE	C-N-CA	6.08	128.34	120.44
1	1U	99	PRO	N-CA-C	6.08	120.77	111.11
1	jK	184	TRP	CD2-CE3-CZ3	6.08	126.50	118.60
1	kt	229	ARG	N-CA-C	6.08	118.61	110.35
1	kI	152	ASP	CA-CB-CG	6.08	118.68	112.60
1	l1	161	PHE	N-CA-C	6.08	117.90	111.28
1	lc	149	SER	CA-C-N	6.08	128.78	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lc	149	SER	C-N-CA	6.08	128.78	120.46
1	lL	117	TRP	CG-CD2-CE3	-6.08	127.82	133.90
1	2s	56	LEU	CA-C-N	6.08	128.42	120.28
1	2s	56	LEU	C-N-CA	6.08	128.42	120.28
1	2y	74	ASN	N-CA-CB	6.08	119.05	110.12
1	2I	126	VAL	N-CA-C	6.08	117.55	110.62
1	34	151	LEU	CA-C-N	6.08	129.25	120.38
1	34	151	LEU	C-N-CA	6.08	129.25	120.38
1	36	60	GLY	CA-C-N	6.08	130.23	121.54
1	36	60	GLY	C-N-CA	6.08	130.23	121.54
1	3u	120	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	3E	181	VAL	N-CA-C	6.08	116.25	110.42
1	3W	197	ASP	O-C-N	-6.08	115.22	122.15
1	3X	165	VAL	CB-CA-C	6.08	122.11	112.26
1	4w	34	PRO	N-CA-CB	6.08	109.34	103.51
1	5F	62	HIS	N-CA-C	6.08	119.74	111.17
1	5U	123	PRO	N-CA-C	6.08	124.99	112.47
1	6v	62	HIS	ND1-CE1-NE2	6.08	114.48	108.40
1	7f	110	THR	O-C-N	-6.08	115.34	122.81
1	7C	73	ILE	CA-C-O	6.08	127.59	121.27
1	7J	93	PRO	O-C-N	-6.08	116.36	122.98
1	7Q	53	ASN	CA-C-O	6.08	126.97	120.10
1	8n	73	ILE	N-CA-CB	6.08	118.35	110.57
1	92	223	GLY	O-C-N	-6.08	115.69	121.77
1	Y	126	VAL	N-CA-C	6.08	116.74	110.36
1	9U	176	GLN	N-CA-C	-6.08	105.51	113.17
1	aa	231	LEU	N-CA-CB	-6.08	100.17	110.50
1	11	172	LEU	CA-C-O	6.08	126.96	119.97
1	an	124	ILE	CB-CA-C	6.08	118.17	111.18
1	aE	56	LEU	CA-C-O	-6.08	114.11	120.55
1	bu	113	GLU	N-CA-C	6.08	117.90	111.28
1	bz	42	ALA	CA-C-N	6.08	128.71	120.38
1	bz	42	ALA	C-N-CA	6.08	128.71	120.38
1	bE	29	GLU	N-CA-C	6.08	118.68	111.33
1	bV	47	ALA	CB-CA-C	6.08	119.48	109.70
1	bX	42	ALA	O-C-N	-6.08	115.22	122.15
1	cd	33	SER	O-C-N	-6.08	117.60	121.85
1	cR	141	ILE	CA-C-O	6.08	127.29	120.85
1	cY	229	ARG	NE-CZ-NH2	-6.08	113.73	119.20
1	d3	210	THR	CA-CB-OG1	6.08	118.72	109.60
1	d5	196	PRO	O-C-N	-6.08	114.44	122.64
1	dk	139	ASN	N-CA-C	6.08	118.68	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e5	186	THR	O-C-N	-6.08	115.81	122.07
1	fa	92	GLU	CA-C-N	6.08	127.44	119.84
1	fa	92	GLU	C-N-CA	6.08	127.44	119.84
1	ff	12	HIS	CG-CD2-NE2	6.08	113.28	107.20
1	fr	149	SER	O-C-N	-6.08	115.84	123.01
1	fz	167	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	fQ	7	GLN	N-CA-CB	6.08	120.76	110.49
1	g	69	LEU	N-CA-C	6.08	118.43	111.02
1	y	176	GLN	OE1-CD-NE2	-6.08	116.52	122.60
1	C	158	LYS	N-CA-C	-6.08	105.04	112.88
1	6	155	GLN	CA-CB-CG	6.08	126.25	114.10
1	gp	37	ILE	CB-CA-C	-6.08	107.93	113.70
1	gr	136	LEU	N-CA-C	6.08	118.68	111.33
1	gs	15	ILE	N-CA-CB	6.08	117.48	110.49
1	gs	26	VAL	CA-CB-CG2	-6.08	100.07	110.40
1	h4	185	MET	CA-C-N	6.08	128.70	120.44
1	h4	185	MET	C-N-CA	6.08	128.70	120.44
1	1I	30	LYS	N-CA-C	-6.08	106.84	114.56
1	hg	119	THR	CB-CA-C	-6.08	101.24	111.02
1	hv	153	ILE	CB-CA-C	6.08	118.31	110.96
1	hA	61	GLY	CA-C-N	6.08	131.22	122.35
1	hA	61	GLY	C-N-CA	6.08	131.22	122.35
1	hN	115	ILE	N-CA-CB	6.08	117.25	110.51
1	1N	50	GLN	N-CA-C	6.08	117.57	111.07
1	iw	18	ARG	CA-C-N	6.08	128.42	120.28
1	iw	18	ARG	C-N-CA	6.08	128.42	120.28
1	iB	190	LEU	N-CA-CB	-6.08	100.95	110.06
1	iD	47	ALA	CA-C-O	6.08	127.96	121.16
1	1R	87	HIS	O-C-N	-6.08	114.75	122.34
1	iR	21	ASN	CA-CB-CG	6.08	118.68	112.60
1	jg	154	ARG	NE-CZ-NH1	-6.08	115.42	121.50
1	jl	203	LYS	CA-C-N	6.08	128.34	120.44
1	jl	203	LYS	C-N-CA	6.08	128.34	120.44
1	jz	98	GLU	CB-CG-CD	-6.08	102.27	112.60
1	jI	100	ARG	CA-C-N	6.08	126.68	120.00
1	jI	100	ARG	C-N-CA	6.08	126.68	120.00
1	jL	123	PRO	O-C-N	6.08	130.71	122.99
1	jM	63	GLN	N-CA-C	6.08	117.98	111.36
1	jU	139	ASN	CA-CB-CG	6.08	118.68	112.60
1	jV	103	ASP	CA-CB-CG	-6.08	106.52	112.60
1	1Z	14	ALA	N-CA-CB	-6.08	101.11	110.04
1	20	17	PRO	CB-CA-C	6.08	120.98	112.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kl	90	PRO	N-CA-CB	-6.08	96.87	103.25
1	ks	116	GLY	O-C-N	-6.08	116.35	122.18
1	kz	112	GLN	O-C-N	-6.08	114.29	122.43
1	kO	33	SER	CA-C-N	6.08	125.96	119.28
1	kO	33	SER	C-N-CA	6.08	125.96	119.28
1	kP	132	ARG	NH1-CZ-NH2	-6.08	111.40	119.30
1	l1	196	PRO	N-CA-C	6.08	122.80	113.75
1	l3	162	ARG	NH1-CZ-NH2	-6.08	111.40	119.30
1	l4	88	ALA	CA-C-O	6.08	128.89	121.72
1	27	104	ILE	CB-CA-C	-6.08	104.10	111.88
1	2j	21	ASN	CA-C-O	6.08	127.20	120.82
1	2p	20	LEU	N-CA-C	6.08	117.57	111.07
1	2z	96	MET	O-C-N	-6.08	116.22	123.27
1	2K	134	ILE	CA-C-N	6.08	129.05	120.42
1	2K	134	ILE	C-N-CA	6.08	129.05	120.42
1	2U	65	ALA	CA-C-N	6.08	129.54	120.31
1	2U	65	ALA	C-N-CA	6.08	129.54	120.31
1	3b	197	ASP	CA-C-N	6.08	128.42	120.28
1	3b	197	ASP	C-N-CA	6.08	128.42	120.28
1	3x	136	LEU	CA-C-N	6.08	126.68	120.00
1	3x	136	LEU	C-N-CA	6.08	126.68	120.00
1	3R	138	LEU	CA-C-N	6.08	128.92	120.29
1	3R	138	LEU	C-N-CA	6.08	128.92	120.29
1	4b	140	LYS	N-CA-CB	6.08	119.15	110.16
1	4k	27	VAL	CA-C-N	6.08	128.74	120.54
1	4k	27	VAL	C-N-CA	6.08	128.74	120.54
1	4z	194	ALA	O-C-N	-6.08	114.51	122.59
1	4M	209	ALA	N-CA-C	6.08	118.39	110.43
1	4M	230	VAL	CA-CB-CG2	-6.08	100.07	110.40
1	5O	80	TRP	N-CA-C	-6.08	104.35	110.97
1	6h	63	GLN	CB-CG-CD	6.08	122.93	112.60
1	6l	214	MET	N-CA-C	6.08	117.90	111.28
1	6o	21	ASN	CA-CB-CG	6.08	118.67	112.60
1	6v	13	GLN	OE1-CD-NE2	6.08	128.68	122.60
1	6J	8	GLY	O-C-N	-6.08	117.58	123.35
1	7x	152	ASP	N-CA-CB	-6.08	100.50	110.40
1	7Q	185	MET	N-CA-C	6.08	117.98	111.36
1	7U	192	GLN	N-CA-CB	6.08	118.99	109.94
1	87	192	GLN	CA-C-O	6.08	126.98	120.24
1	8k	211	LEU	CA-C-N	6.08	128.34	120.44
1	8k	211	LEU	C-N-CA	6.08	128.34	120.44
1	8t	82	ARG	O-C-N	-6.08	115.68	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	28	GLU	N-CA-C	6.08	117.90	111.28
1	8K	32	PHE	CA-CB-CG	6.08	119.88	113.80
1	8L	180	GLU	CA-C-N	6.08	128.78	120.46
1	8L	180	GLU	C-N-CA	6.08	128.78	120.46
1	8X	145	TYR	CA-CB-CG	-6.08	102.96	113.90
1	94	134	ILE	CA-C-N	6.08	128.22	120.56
1	94	134	ILE	C-N-CA	6.08	128.22	120.56
1	99	18	ARG	NE-CZ-NH1	6.08	127.58	121.50
1	9s	29	GLU	N-CA-C	6.08	120.86	111.56
1	9u	79	GLU	CB-CA-C	6.08	120.87	110.79
1	9L	59	VAL	O-C-N	-6.08	116.05	122.67
1	9Q	225	GLY	CA-C-N	6.08	129.34	120.71
1	9Q	225	GLY	C-N-CA	6.08	129.34	120.71
1	9X	35	GLU	N-CA-C	6.08	119.53	111.75
1	9Z	26	VAL	O-C-N	-6.08	115.57	121.83
1	al	152	ASP	N-CA-CB	-6.08	101.44	110.61
1	bB	206	GLY	O-C-N	-6.08	115.69	121.77
1	19	110	THR	O-C-N	-6.08	114.15	122.23
1	bL	186	THR	CA-C-N	6.08	128.42	120.28
1	bL	186	THR	C-N-CA	6.08	128.42	120.28
1	bP	221	VAL	CB-CA-C	6.08	119.67	110.62
1	cg	208	ALA	N-CA-C	6.08	118.87	111.82
1	cD	91	ILE	CA-CB-CG1	6.08	120.73	110.40
1	cR	87	HIS	CB-CG-ND1	6.08	131.81	122.70
1	cT	163	ASP	N-CA-C	6.08	119.95	112.54
1	de	133	TRP	CA-C-N	6.08	128.21	120.56
1	de	133	TRP	C-N-CA	6.08	128.21	120.56
1	dA	48	THR	CA-C-N	6.08	127.44	119.84
1	dA	48	THR	C-N-CA	6.08	127.44	119.84
1	1m	169	TYR	O-C-N	-6.08	115.22	122.15
1	e5	21	ASN	OD1-CG-ND2	-6.08	116.52	122.60
1	eh	23	TRP	CB-CG-CD1	-6.08	117.79	126.90
1	1q	214	MET	O-C-N	-6.08	115.68	122.12
1	em	129	ILE	CB-CA-C	-6.08	103.94	112.14
1	ev	27	VAL	N-CA-CB	-6.08	103.44	110.55
1	eZ	212	GLU	N-CA-C	6.08	118.40	111.11
1	f7	189	LEU	N-CA-C	6.08	118.40	111.11
1	ff	9	GLN	CA-C-N	6.08	129.47	120.90
1	ff	9	GLN	C-N-CA	6.08	129.47	120.90
1	fo	117	TRP	N-CA-C	6.08	117.57	111.07
1	ft	168	PHE	N-CA-C	6.08	117.98	111.36
1	fM	98	GLU	O-C-N	-6.08	114.62	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fQ	21	ASN	N-CA-CB	-6.08	100.22	110.49
1	D	112	GLN	CG-CD-NE2	6.08	125.51	116.40
1	G	92	GLU	CA-C-N	6.08	126.43	119.93
1	G	92	GLU	C-N-CA	6.08	126.43	119.93
1	I	31	ALA	N-CA-C	6.08	119.94	111.74
1	1C	114	GLN	CA-C-N	6.07	128.78	120.46
1	1C	114	GLN	C-N-CA	6.07	128.78	120.46
1	gi	180	GLU	CB-CG-CD	6.07	122.92	112.60
1	gC	162	ARG	CA-CB-CG	6.07	126.25	114.10
1	1G	93	PRO	O-C-N	-6.07	114.44	122.64
1	h4	219	GLN	N-CA-C	6.07	118.52	109.59
1	hf	185	MET	CA-C-N	6.07	128.42	120.28
1	hf	185	MET	C-N-CA	6.07	128.42	120.28
1	ho	138	LEU	N-CA-C	6.07	117.90	111.28
1	hw	124	ILE	N-CA-C	6.07	113.56	107.55
1	hA	89	GLY	N-CA-C	6.07	119.29	112.00
1	1O	113	GLU	CA-C-N	6.07	128.74	120.54
1	1O	113	GLU	C-N-CA	6.07	128.74	120.54
1	iE	213	GLU	CA-C-N	6.07	128.42	120.28
1	iE	213	GLU	C-N-CA	6.07	128.42	120.28
1	j8	38	PRO	O-C-N	-6.07	114.64	122.23
1	ji	185	MET	CA-C-N	6.07	128.70	120.38
1	ji	185	MET	C-N-CA	6.07	128.70	120.38
1	jO	143	ARG	N-CA-C	6.07	118.68	111.33
1	jS	192	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	jU	77	ALA	CA-C-N	6.07	128.42	120.28
1	jU	77	ALA	C-N-CA	6.07	128.42	120.28
1	k2	168	PHE	CA-CB-CG	-6.07	107.73	113.80
1	k7	226	HIS	CB-CG-ND1	6.07	131.81	122.70
1	ki	121	ASN	N-CA-C	-6.07	99.68	109.40
1	km	216	THR	O-C-N	-6.07	115.02	122.25
1	kF	63	GLN	O-C-N	-6.07	114.14	122.46
1	kJ	153	ILE	CA-CB-CG1	6.07	120.72	110.40
1	kY	139	ASN	CA-C-N	6.07	128.42	120.28
1	kY	139	ASN	C-N-CA	6.07	128.42	120.28
1	l3	75	GLU	CA-C-O	6.07	126.99	120.55
1	l7	49	PRO	N-CA-CB	6.07	109.63	103.25
1	27	63	GLN	CG-CD-NE2	6.07	125.51	116.40
1	lk	135	ILE	N-CA-C	6.07	117.54	110.62
1	lm	98	GLU	N-CA-C	6.07	117.54	109.83
1	lw	59	VAL	O-C-N	-6.07	115.68	122.66
1	lw	100	ARG	NE-CZ-NH1	6.07	127.57	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	79	GLU	N-CA-C	6.07	117.90	111.28
1	2e	32	PHE	N-CA-CB	6.07	119.36	110.25
1	2p	19	THR	N-CA-CB	6.07	119.69	110.28
1	2v	146	SER	N-CA-CB	6.07	118.88	110.01
1	2H	159	GLU	O-C-N	-6.07	116.40	121.38
1	3a	50	GLN	CA-C-O	-6.07	114.11	120.55
1	3o	32	PHE	CA-C-O	6.07	126.51	120.32
1	3H	169	TYR	N-CA-C	6.07	118.68	111.33
1	4o	152	ASP	CA-CB-CG	-6.07	106.53	112.60
1	4Q	80	TRP	CA-C-O	6.07	127.40	120.90
1	4Z	13	GLN	CA-C-N	6.07	129.33	120.71
1	4Z	13	GLN	C-N-CA	6.07	129.33	120.71
1	5d	65	ALA	CA-C-O	6.07	126.86	120.42
1	5t	120	HIS	CB-CG-CD2	-6.07	123.31	131.20
1	5v	114	GLN	N-CA-C	6.07	117.57	111.07
1	5E	5	ASN	CA-CB-CG	6.07	118.67	112.60
1	5R	170	LYS	CA-C-N	6.07	128.42	120.28
1	5R	170	LYS	C-N-CA	6.07	128.42	120.28
1	63	212	GLU	CA-C-O	6.07	126.99	120.55
1	6c	154	ARG	NH1-CZ-NH2	-6.07	111.40	119.30
1	6c	201	ILE	CA-CB-CG1	6.07	120.72	110.40
1	6q	167	ARG	N-CA-C	6.07	118.69	111.71
1	6D	170	LYS	N-CA-C	6.07	118.68	111.33
1	6E	129	ILE	O-C-N	-6.07	115.58	121.90
1	6H	54	THR	CA-C-O	-6.07	114.40	120.90
1	6Q	28	GLU	N-CA-CB	6.07	119.05	110.12
1	6X	155	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	70	87	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	70	183	ASN	CB-CA-C	-6.07	100.71	110.79
1	7m	78	ALA	O-C-N	-6.07	114.80	122.27
1	7v	166	ASP	CB-CA-C	6.07	120.42	110.88
1	7C	183	ASN	CA-C-N	6.07	128.34	120.44
1	7C	183	ASN	C-N-CA	6.07	128.34	120.44
1	7D	70	LYS	CA-C-O	6.07	127.20	120.82
1	7O	143	ARG	O-C-N	-6.07	114.29	122.43
1	8h	150	ILE	CA-CB-CG2	6.07	120.83	110.50
1	8n	161	PHE	CA-CB-CG	-6.07	107.73	113.80
1	8q	15	ILE	CA-C-N	6.07	129.11	120.49
1	8q	15	ILE	C-N-CA	6.07	129.11	120.49
1	8I	121	ASN	O-C-N	-6.07	114.37	121.23
1	91	132	ARG	CA-C-N	6.07	128.91	120.29
1	91	132	ARG	C-N-CA	6.07	128.91	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	139	ASN	CA-C-O	6.07	126.99	120.55
1	9L	33	SER	CA-C-N	6.07	127.43	119.84
1	9L	33	SER	C-N-CA	6.07	127.43	119.84
1	ak	142	VAL	CA-CB-CG2	-6.07	100.08	110.40
1	aM	98	GLU	O-C-N	-6.07	116.15	121.31
1	aO	58	THR	CA-CB-OG1	6.07	118.71	109.60
1	aU	30	LYS	CA-C-N	6.07	128.70	120.38
1	aU	30	LYS	C-N-CA	6.07	128.70	120.38
1	aU	84	HIS	CG-CD2-NE2	6.07	113.27	107.20
1	bC	53	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	bF	146	SER	CA-C-N	6.07	127.43	119.84
1	bF	146	SER	C-N-CA	6.07	127.43	119.84
1	1a	224	PRO	N-CA-CB	-6.07	98.22	103.32
1	bQ	165	VAL	N-CA-C	-6.07	104.59	110.42
1	ca	163	ASP	CA-CB-CG	6.07	118.67	112.60
1	1i	125	PRO	CA-C-N	6.07	128.78	120.46
1	1i	125	PRO	C-N-CA	6.07	128.78	120.46
1	d4	87	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	dx	182	LYS	CA-C-O	6.07	126.99	120.55
1	dE	146	SER	N-CA-C	6.07	118.23	109.48
1	e3	72	THR	O-C-N	-6.07	115.81	122.07
1	eg	100	ARG	O-C-N	-6.07	114.67	122.20
1	eI	33	SER	CB-CA-C	6.07	117.98	108.63
1	eK	15	ILE	O-C-N	-6.07	115.53	122.94
1	eS	116	GLY	N-CA-C	6.07	119.99	112.64
1	f7	73	ILE	CA-C-O	-6.07	114.63	120.95
1	fb	98	GLU	CA-C-O	-6.07	114.68	119.66
1	fe	168	PHE	O-C-N	-6.07	115.81	122.07
1	fr	181	VAL	CA-C-O	6.07	127.61	121.17
1	fW	62	HIS	ND1-CE1-NE2	6.07	114.47	108.40
1	g0	117	TRP	N-CA-C	6.07	117.90	111.28
1	g5	111	LEU	O-C-N	-6.07	115.68	122.12
1	c	120	HIS	CB-CG-CD2	-6.07	123.31	131.20
1	l	197	ASP	O-C-N	-6.07	115.78	122.09
1	L	144	MET	N-CA-C	6.07	117.90	111.28
1	g9	159	GLU	CA-C-N	6.07	125.98	119.85
1	g9	159	GLU	C-N-CA	6.07	125.98	119.85
1	gc	63	GLN	CA-C-O	-6.07	114.11	120.55
1	gX	150	ILE	O-C-N	-6.07	115.08	122.12
1	hf	171	THR	CA-C-N	6.07	128.33	120.44
1	hf	171	THR	C-N-CA	6.07	128.33	120.44
1	hw	41	SER	O-C-N	6.07	128.32	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hL	11	VAL	O-C-N	-6.07	116.66	123.03
1	i5	171	THR	CA-C-N	6.07	128.91	120.29
1	i5	171	THR	C-N-CA	6.07	128.91	120.29
1	iQ	199	LYS	CA-C-O	-6.07	114.11	120.55
1	jb	177	ALA	N-CA-C	6.07	119.41	109.76
1	jm	212	GLU	N-CA-C	6.07	121.39	111.37
1	jM	99	PRO	N-CA-C	6.07	120.79	110.95
1	k0	156	GLY	O-C-N	-6.07	116.95	122.42
1	k8	135	ILE	N-CA-CB	6.07	118.80	110.54
1	24	31	ALA	O-C-N	-6.07	115.23	122.15
1	ld	86	VAL	O-C-N	-6.07	116.05	122.67
1	lE	197	ASP	O-C-N	-6.07	115.82	122.07
1	lL	72	THR	OG1-CB-CG2	-6.07	97.16	109.30
1	lQ	72	THR	OG1-CB-CG2	-6.07	97.16	109.30
1	2g	100	ARG	O-C-N	-6.07	114.67	122.20
1	2x	171	THR	CA-C-N	6.07	128.42	120.28
1	2x	171	THR	C-N-CA	6.07	128.42	120.28
1	2H	24	VAL	N-CA-C	6.07	116.25	110.42
1	2W	59	VAL	CA-C-N	6.07	127.93	120.22
1	2W	59	VAL	C-N-CA	6.07	127.93	120.22
1	2W	70	LYS	N-CA-C	6.07	117.90	111.28
1	2X	114	GLN	O-C-N	-6.07	115.68	122.12
1	3f	33	SER	CA-C-O	-6.07	114.03	119.86
1	3i	145	TYR	N-CA-C	6.07	120.69	113.28
1	3O	183	ASN	CA-C-N	6.07	128.91	120.29
1	3O	183	ASN	C-N-CA	6.07	128.91	120.29
1	43	125	PRO	CA-C-N	6.07	130.58	120.62
1	43	125	PRO	C-N-CA	6.07	130.58	120.62
1	43	209	ALA	O-C-N	-6.07	114.80	122.27
1	4e	178	SER	O-C-N	-6.07	115.40	122.87
1	4i	163	ASP	N-CA-C	6.07	117.90	111.28
1	4O	62	HIS	ND1-CG-CD2	6.07	112.17	106.10
1	4U	17	PRO	N-CA-CB	6.07	109.95	103.39
1	5l	153	ILE	N-CA-C	6.07	118.19	109.51
1	5w	156	GLY	CA-C-N	6.07	125.69	119.56
1	5w	156	GLY	C-N-CA	6.07	125.69	119.56
1	5D	124	ILE	N-CA-CB	6.07	119.71	111.21
1	6r	34	PRO	N-CA-CB	-6.07	97.75	103.52
1	77	138	LEU	CD1-CG-CD2	-6.07	97.44	110.80
1	7D	166	ASP	O-C-N	-6.07	115.82	122.07
1	7R	146	SER	O-C-N	-6.07	114.34	121.32
1	7W	77	ALA	O-C-N	-6.07	115.68	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8f	62	HIS	N-CA-C	6.07	119.80	111.54
1	8L	25	LYS	O-C-N	-6.07	115.53	122.09
1	9i	186	THR	CA-C-N	6.07	128.91	120.29
1	9i	186	THR	C-N-CA	6.07	128.91	120.29
1	aL	21	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	aW	19	THR	N-CA-C	6.07	117.90	111.28
1	bz	202	LEU	N-CA-C	6.07	117.90	111.28
1	1a	12	HIS	N-CA-CB	6.07	120.10	110.57
1	c9	173	ARG	CA-C-N	6.07	128.74	120.54
1	c9	173	ARG	C-N-CA	6.07	128.74	120.54
1	cH	192	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	dn	106	GLY	CA-C-N	6.07	128.42	120.28
1	dn	106	GLY	C-N-CA	6.07	128.42	120.28
1	dy	170	LYS	CA-C-N	6.07	128.42	120.28
1	dy	170	LYS	C-N-CA	6.07	128.42	120.28
1	dR	39	MET	N-CA-C	6.07	117.57	111.07
1	dX	201	ILE	N-CA-C	6.07	116.81	110.62
1	e0	19	THR	O-C-N	-6.07	115.82	122.07
1	fi	94	GLY	O-C-N	-6.07	115.33	122.50
1	fC	54	THR	N-CA-CB	6.07	119.68	109.78
1	u	182	LYS	N-CA-CB	6.07	119.05	110.12
1	gi	198	CYS	CA-C-N	6.07	128.41	120.28
1	gi	198	CYS	C-N-CA	6.07	128.41	120.28
1	go	141	ILE	CB-CA-C	6.07	119.74	111.97
1	go	204	ALA	CA-C-N	6.07	129.23	120.79
1	go	204	ALA	C-N-CA	6.07	129.23	120.79
1	gw	35	GLU	N-CA-C	6.07	120.16	112.87
1	1E	202	LEU	CA-C-O	6.07	126.98	120.55
1	gS	36	VAL	O-C-N	-6.07	116.28	122.23
1	gY	96	MET	CA-C-O	6.07	126.80	120.30
1	ha	139	ASN	N-CA-CB	-6.07	101.17	110.16
1	hy	97	ARG	CA-C-N	6.07	129.11	120.49
1	hy	97	ARG	C-N-CA	6.07	129.11	120.49
1	hB	216	THR	CA-CB-OG1	6.07	118.70	109.60
1	hG	193	ASN	N-CA-CB	-6.07	101.50	110.49
1	hL	158	LYS	N-CA-C	-6.07	104.38	112.94
1	hO	56	LEU	CA-C-O	6.07	126.95	119.97
1	hQ	201	ILE	N-CA-C	6.07	116.81	110.62
1	hX	21	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	1N	47	ALA	CA-C-N	6.07	129.89	120.60
1	1N	47	ALA	C-N-CA	6.07	129.89	120.60
1	i5	62	HIS	ND1-CG-CD2	6.07	112.17	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i6	70	LYS	CA-C-O	6.07	126.86	120.42
1	1Q	35	GLU	CA-C-O	6.07	126.98	120.55
1	iC	223	GLY	CA-C-N	6.07	127.43	119.84
1	iC	223	GLY	C-N-CA	6.07	127.43	119.84
1	iU	57	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	iU	120	HIS	ND1-CE1-NE2	6.07	114.47	108.40
1	j3	178	SER	N-CA-C	6.07	118.13	110.24
1	j4	183	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	jh	10	MET	CG-SD-CE	-6.07	87.55	100.90
1	jq	10	MET	O-C-N	-6.07	114.52	122.59
1	1W	114	GLN	O-C-N	6.07	128.32	122.07
1	jI	94	GLY	O-C-N	-6.07	116.00	122.56
1	jV	96	MET	CA-C-N	6.07	129.74	120.82
1	jV	96	MET	C-N-CA	6.07	129.74	120.82
1	kp	127	GLY	CA-C-N	6.07	128.33	120.44
1	kp	127	GLY	C-N-CA	6.07	128.33	120.44
1	ky	212	GLU	N-CA-C	6.07	117.90	111.28
1	l2	187	GLU	N-CA-C	-6.07	106.03	113.50
1	l9	91	ILE	O-C-N	-6.07	114.98	122.57
1	lm	133	TRP	CA-C-N	6.07	128.29	120.70
1	lm	133	TRP	C-N-CA	6.07	128.29	120.70
1	lM	117	TRP	CA-C-O	6.07	126.95	119.97
1	2g	216	THR	N-CA-CB	6.07	119.65	110.30
1	2z	24	VAL	CA-CB-CG1	6.07	120.72	110.40
1	2G	110	THR	CA-C-O	-6.07	114.83	121.87
1	2N	76	GLU	N-CA-C	6.07	117.56	111.07
1	2P	219	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	3z	176	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	3F	71	GLU	O-C-N	-6.07	115.82	122.07
1	3S	43	LEU	N-CA-C	6.07	120.42	112.89
1	3Z	87	HIS	ND1-CE1-NE2	6.07	114.47	108.40
1	4c	227	LYS	CA-C-N	6.07	132.18	121.80
1	4c	227	LYS	C-N-CA	6.07	132.18	121.80
1	4v	21	ASN	CA-CB-CG	-6.07	106.53	112.60
1	4z	86	VAL	CB-CA-C	6.07	119.96	111.34
1	4C	110	THR	CA-C-N	6.07	128.33	120.44
1	4C	110	THR	C-N-CA	6.07	128.33	120.44
1	4R	109	SER	N-CA-C	6.07	119.44	110.46
1	4R	221	VAL	O-C-N	-6.07	116.45	122.76
1	5f	126	VAL	N-CA-C	6.07	118.64	111.05
1	5o	70	LYS	N-CA-C	6.07	118.43	111.02
1	5t	1	PRO	CA-C-N	-6.07	114.54	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5t	1	PRO	C-N-CA	-6.07	114.54	122.37
1	5C	82	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	5G	31	ALA	CB-CA-C	-6.07	108.56	115.79
1	5K	220	GLY	N-CA-C	6.07	122.04	111.78
1	5X	81	ASP	N-CA-C	6.07	117.90	111.28
1	6a	19	THR	N-CA-CB	6.07	118.81	110.01
1	6y	117	TRP	CB-CG-CD2	-6.07	118.30	126.80
1	6M	2	ILE	O-C-N	-6.07	116.03	122.83
1	7G	101	GLY	N-CA-C	6.07	119.98	112.64
1	7K	55	MET	N-CA-C	6.07	117.57	111.07
1	8l	173	ARG	NH1-CZ-NH2	-6.07	111.41	119.30
1	8C	178	SER	N-CA-C	6.07	118.13	110.24
1	8T	220	GLY	CA-C-O	6.07	125.75	119.01
1	8Y	39	MET	N-CA-C	6.07	117.98	111.36
1	9c	124	ILE	CA-C-N	6.07	127.43	119.84
1	9c	124	ILE	C-N-CA	6.07	127.43	119.84
1	9p	197	ASP	O-C-N	-6.07	115.06	122.34
1	9u	42	ALA	N-CA-C	6.07	119.88	112.23
1	9A	65	ALA	CA-C-N	6.07	128.73	120.54
1	9A	65	ALA	C-N-CA	6.07	128.73	120.54
1	9D	28	GLU	N-CA-C	6.07	117.90	111.28
1	9W	151	LEU	N-CA-C	6.07	117.90	111.28
1	a4	87	HIS	CA-C-O	-6.07	112.79	120.20
1	aP	180	GLU	O-C-N	-6.07	115.23	122.15
1	aR	24	VAL	CA-C-O	-6.07	114.42	120.85
1	b9	33	SER	O-C-N	-6.07	117.57	121.88
1	bp	221	VAL	O-C-N	-6.07	116.60	122.97
1	bu	15	ILE	CA-C-N	6.07	129.11	120.49
1	bu	15	ILE	C-N-CA	6.07	129.11	120.49
1	bA	101	GLY	O-C-N	-6.07	116.36	122.19
1	bC	169	TYR	O-C-N	-6.07	115.69	122.12
1	bD	17	PRO	CA-C-N	6.07	128.33	120.44
1	bD	17	PRO	C-N-CA	6.07	128.33	120.44
1	c3	89	GLY	N-CA-C	-6.07	104.63	112.10
1	c3	140	LYS	N-CA-CB	6.07	119.14	110.16
1	cd	42	ALA	O-C-N	-6.07	115.69	122.12
1	ch	6	LEU	CA-C-N	6.07	129.45	120.95
1	ch	6	LEU	C-N-CA	6.07	129.45	120.95
1	cp	162	ARG	O-C-N	-6.07	115.78	122.09
1	cq	81	ASP	CA-C-O	6.07	126.86	120.42
1	cs	36	VAL	CA-C-O	6.07	126.81	120.25
1	ct	143	ARG	N-CA-C	6.07	117.98	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	51	ASP	CA-CB-CG	6.07	118.67	112.60
1	cK	215	MET	N-CA-CB	6.07	121.11	110.18
1	cP	18	ARG	CA-C-N	6.07	128.33	120.44
1	cP	18	ARG	C-N-CA	6.07	128.33	120.44
1	cZ	55	MET	CA-C-O	-6.07	114.45	120.70
1	d5	183	ASN	O-C-N	-6.07	115.69	122.12
1	da	156	GLY	CA-C-N	6.07	127.43	119.84
1	da	156	GLY	C-N-CA	6.07	127.43	119.84
1	1j	128	GLU	CA-C-O	-6.07	114.12	120.55
1	dk	53	ASN	CA-CB-CG	-6.07	106.53	112.60
1	do	104	ILE	N-CA-CB	6.07	117.65	110.55
1	ds	68	MET	CA-C-N	6.07	128.33	120.44
1	ds	68	MET	C-N-CA	6.07	128.33	120.44
1	dE	134	ILE	CA-C-N	6.07	128.78	120.46
1	dE	134	ILE	C-N-CA	6.07	128.78	120.46
1	dK	193	ASN	CA-CB-CG	6.07	118.67	112.60
1	dL	62	HIS	CA-CB-CG	-6.07	107.73	113.80
1	dU	149	SER	CA-C-N	6.07	130.72	120.64
1	dU	149	SER	C-N-CA	6.07	130.72	120.64
1	ei	214	MET	CG-SD-CE	-6.07	87.54	100.90
1	1s	160	PRO	N-CA-CB	-6.07	98.07	103.35
1	eQ	82	ARG	NH1-CZ-NH2	-6.07	111.41	119.30
1	eY	73	ILE	O-C-N	-6.07	115.87	121.94
1	fk	162	ARG	CA-C-N	6.07	128.73	120.54
1	fk	162	ARG	C-N-CA	6.07	128.73	120.54
1	fm	46	GLY	O-C-N	-6.07	114.28	122.35
1	fw	41	SER	CA-C-O	-6.07	114.12	120.55
1	fX	126	VAL	N-CA-C	6.07	116.81	110.62
1	d	216	THR	N-CA-CB	6.07	118.81	110.01
1	e	48	THR	CA-C-N	6.07	126.24	119.32
1	e	48	THR	C-N-CA	6.07	126.24	119.32
1	i	9	GLN	N-CA-C	6.07	119.03	110.23
1	j	99	PRO	N-CA-C	6.07	124.97	112.47
1	y	43	LEU	O-C-N	-6.07	115.12	122.22
1	F	201	ILE	N-CA-C	6.07	116.81	110.62
1	J	162	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	L	209	ALA	N-CA-C	6.07	119.16	110.24
1	5	217	ALA	CA-C-N	6.07	128.91	120.29
1	5	217	ALA	C-N-CA	6.07	128.91	120.29
1	gn	81	ASP	N-CA-C	6.07	117.89	111.28
1	1K	65	ALA	CA-C-N	6.07	128.91	120.29
1	1K	65	ALA	C-N-CA	6.07	128.91	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iP	200	THR	CA-C-N	6.07	130.25	120.30
1	iP	200	THR	C-N-CA	6.07	130.25	120.30
1	j9	138	LEU	O-C-N	-6.07	115.69	122.12
1	jL	191	VAL	O-C-N	-6.07	114.94	121.80
1	k0	186	THR	N-CA-C	6.07	117.89	111.28
1	kl	3	VAL	O-C-N	-6.07	116.71	123.26
1	24	186	THR	N-CA-C	-6.07	104.74	111.36
1	lH	168	PHE	CA-CB-CG	6.07	119.87	113.80
1	2E	45	GLU	CA-C-O	6.07	127.68	120.70
1	2O	184	TRP	O-C-N	-6.07	115.82	122.07
1	2Q	165	VAL	N-CA-C	6.07	117.54	110.62
1	3a	163	ASP	CA-C-O	6.07	126.85	120.42
1	3f	105	ALA	CA-C-O	6.07	126.95	119.97
1	3P	192	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	3R	110	THR	O-C-N	-6.07	115.70	122.86
1	4S	143	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	58	78	ALA	CA-C-O	6.07	126.95	119.79
1	5i	40	PHE	CA-C-O	6.07	126.98	120.55
1	6C	4	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	7d	211	LEU	O-C-N	-6.07	115.69	122.12
1	7p	132	ARG	N-CA-C	6.07	117.97	111.36
1	7J	74	ASN	O-C-N	-6.07	115.69	122.12
1	8i	155	GLN	O-C-N	-6.07	115.57	122.97
1	8P	18	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	8Q	147	PRO	CA-C-N	6.07	129.33	120.71
1	8Q	147	PRO	C-N-CA	6.07	129.33	120.71
1	8S	215	MET	N-CA-C	6.07	119.78	112.38
1	95	66	MET	O-C-N	-6.07	115.12	122.22
1	98	141	ILE	CA-C-O	-6.07	114.96	121.27
1	9o	120	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	9K	179	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	9Z	89	GLY	CA-C-O	-6.07	112.84	121.52
1	Z	32	PHE	CA-CB-CG	-6.07	107.73	113.80
1	1d	180	GLU	CA-C-N	6.07	128.21	120.56
1	1d	180	GLU	C-N-CA	6.07	128.21	120.56
1	cH	188	THR	CA-C-N	6.07	128.69	120.38
1	cH	188	THR	C-N-CA	6.07	128.69	120.38
1	cL	42	ALA	CA-C-N	6.07	128.91	120.29
1	cL	42	ALA	C-N-CA	6.07	128.91	120.29
1	dE	162	ARG	NE-CZ-NH2	-6.07	113.74	119.20
1	dZ	70	LYS	CA-C-N	6.07	128.41	120.28
1	dZ	70	LYS	C-N-CA	6.07	128.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	79	GLU	N-CA-C	6.07	117.89	111.28
1	eR	100	ARG	CA-C-N	6.07	127.78	120.13
1	eR	100	ARG	C-N-CA	6.07	127.78	120.13
1	1y	227	LYS	CA-C-O	6.07	129.19	120.51
1	fF	191	VAL	O-C-N	-6.07	115.68	122.05
1	gv	133	TRP	CA-C-N	6.07	128.77	120.46
1	gv	133	TRP	C-N-CA	6.07	128.77	120.46
1	gE	183	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	gP	73	ILE	N-CA-CB	6.07	119.68	110.58
1	gT	200	THR	O-C-N	-6.07	115.69	122.12
1	hh	10	MET	N-CA-C	6.07	118.84	110.35
1	hu	154	ARG	NE-CZ-NH2	-6.07	113.74	119.20
1	hy	37	ILE	CA-C-N	6.07	125.46	118.85
1	hy	37	ILE	C-N-CA	6.07	125.46	118.85
1	hI	155	GLN	CA-C-N	6.07	131.40	121.87
1	hI	155	GLN	C-N-CA	6.07	131.40	121.87
1	ii	162	ARG	NH1-CZ-NH2	-6.07	111.41	119.30
1	il	184	TRP	CB-CG-CD1	-6.07	117.80	126.90
1	is	44	SER	N-CA-C	6.07	119.72	112.93
1	1Q	151	LEU	CA-C-O	6.07	126.83	119.31
1	iy	153	ILE	CA-C-O	6.07	128.36	120.78
1	iy	219	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	iF	72	THR	N-CA-C	6.07	117.89	111.28
1	iT	112	GLN	O-C-N	-6.07	115.69	122.12
1	iT	151	LEU	O-C-N	-6.07	114.75	122.34
1	j6	87	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	jg	48	THR	CA-C-N	6.07	127.42	119.84
1	jg	48	THR	C-N-CA	6.07	127.42	119.84
1	jQ	119	THR	CA-CB-OG1	6.07	118.70	109.60
1	k6	208	ALA	CA-C-O	6.07	126.95	119.97
1	kl	95	GLN	O-C-N	-6.07	115.35	122.81
1	kK	192	GLN	N-CA-C	6.07	117.97	111.36
1	25	11	VAL	O-C-N	-6.07	116.66	123.03
1	l0	23	TRP	CG-CD2-CE3	-6.07	127.83	133.90
1	l1	76	GLU	CA-C-N	6.07	129.02	120.28
1	l1	76	GLU	C-N-CA	6.07	129.02	120.28
1	ls	133	TRP	CA-C-N	6.07	128.77	120.46
1	ls	133	TRP	C-N-CA	6.07	128.77	120.46
1	lG	193	ASN	N-CA-CB	6.07	119.99	110.46
1	2c	86	VAL	CA-C-N	6.07	130.73	122.84
1	2c	86	VAL	C-N-CA	6.07	130.73	122.84
1	2f	170	LYS	CA-C-O	6.07	126.98	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2p	167	ARG	NH1-CZ-NH2	-6.07	111.41	119.30
1	2s	55	MET	N-CA-C	6.07	117.69	111.14
1	2z	81	ASP	CA-C-O	-6.07	114.08	120.63
1	34	58	THR	N-CA-C	6.07	118.69	111.71
1	3a	120	HIS	O-C-N	-6.07	115.52	122.68
1	3c	84	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	3q	73	ILE	CA-CB-CG2	6.07	120.82	110.50
1	3G	76	GLU	N-CA-C	6.07	117.89	111.28
1	4h	122	PRO	N-CA-C	6.07	118.10	110.70
1	4i	194	ALA	CA-C-N	6.07	129.31	120.51
1	4i	194	ALA	C-N-CA	6.07	129.31	120.51
1	4s	41	SER	N-CA-C	-6.07	104.58	111.07
1	4A	184	TRP	CG-CD2-CE3	-6.07	127.83	133.90
1	4K	129	ILE	CB-CA-C	-6.07	104.22	111.81
1	5c	142	VAL	N-CA-C	6.07	116.81	110.62
1	5p	134	ILE	N-CA-C	6.07	116.24	110.42
1	5r	88	ALA	N-CA-C	6.07	119.03	110.23
1	5y	65	ALA	N-CA-CB	6.07	119.04	109.82
1	5Q	177	ALA	N-CA-C	6.07	118.80	110.24
1	5R	144	MET	O-C-N	-6.07	115.69	122.12
1	5V	186	THR	CA-C-N	6.07	128.91	120.29
1	5V	186	THR	C-N-CA	6.07	128.91	120.29
1	68	87	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	6n	67	GLN	N-CA-C	-6.07	104.78	111.82
1	6E	52	LEU	N-CA-C	6.07	117.56	111.07
1	6F	6	LEU	CD1-CG-CD2	-6.07	97.45	110.80
1	6F	67	GLN	CA-C-N	6.07	128.91	120.29
1	6F	67	GLN	C-N-CA	6.07	128.91	120.29
1	6G	81	ASP	CA-C-N	6.07	128.33	120.44
1	6G	81	ASP	C-N-CA	6.07	128.33	120.44
1	6K	140	LYS	N-CA-C	6.07	117.56	111.07
1	6L	213	GLU	CA-C-O	6.07	127.18	120.63
1	6M	143	ARG	CA-C-N	6.07	128.41	120.28
1	6M	143	ARG	C-N-CA	6.07	128.41	120.28
1	6P	116	GLY	N-CA-C	6.07	120.23	112.83
1	6W	147	PRO	N-CA-C	6.07	120.74	111.15
1	74	66	MET	CA-C-N	6.07	128.41	120.28
1	74	66	MET	C-N-CA	6.07	128.41	120.28
1	7b	49	PRO	O-C-N	-6.07	114.39	122.22
1	7D	18	ARG	NE-CZ-NH2	6.07	124.66	119.20
1	7K	197	ASP	N-CA-CB	6.07	118.81	110.01
1	7V	114	GLN	O-C-N	-6.07	115.82	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	83	81	ASP	O-C-N	-6.07	115.69	122.12
1	89	143	ARG	NE-CZ-NH1	6.07	127.57	121.50
1	8l	84	HIS	N-CA-CB	6.07	119.21	110.11
1	8J	33	SER	CA-C-N	6.07	125.77	119.82
1	8J	33	SER	C-N-CA	6.07	125.77	119.82
1	8K	79	GLU	CA-C-N	6.07	128.41	120.28
1	8K	79	GLU	C-N-CA	6.07	128.41	120.28
1	8T	141	ILE	CA-C-N	6.07	128.21	120.56
1	8T	141	ILE	C-N-CA	6.07	128.21	120.56
1	9R	123	PRO	N-CA-CB	6.07	108.63	103.35
1	9X	71	GLU	CA-C-N	6.07	128.91	120.29
1	9X	71	GLU	C-N-CA	6.07	128.91	120.29
1	a1	164	TYR	CA-C-N	6.07	130.25	120.30
1	a1	164	TYR	C-N-CA	6.07	130.25	120.30
1	a6	206	GLY	O-C-N	-6.07	115.70	121.77
1	ay	134	ILE	O-C-N	-6.07	115.98	121.87
1	aA	159	GLU	N-CA-C	6.07	117.34	109.64
1	aE	225	GLY	CA-C-N	6.07	128.33	120.44
1	aE	225	GLY	C-N-CA	6.07	128.33	120.44
1	aG	175	GLU	O-C-N	-6.07	115.49	122.89
1	aI	33	SER	CA-C-N	6.07	126.24	119.32
1	aI	33	SER	C-N-CA	6.07	126.24	119.32
1	aJ	214	MET	CA-C-O	6.07	126.95	119.97
1	aO	188	THR	CB-CA-C	-6.07	102.91	111.65
1	aY	72	THR	CA-C-N	6.07	128.77	120.46
1	aY	72	THR	C-N-CA	6.07	128.77	120.46
1	aY	111	LEU	CA-C-O	6.07	126.98	120.55
1	bf	149	SER	N-CA-C	6.07	119.26	110.28
1	bi	7	GLN	N-CA-C	6.07	123.72	110.80
1	bB	87	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	bI	191	VAL	CA-C-N	6.07	128.33	120.44
1	bI	191	VAL	C-N-CA	6.07	128.33	120.44
1	bQ	42	ALA	CA-C-N	6.07	130.31	120.60
1	bQ	42	ALA	C-N-CA	6.07	130.31	120.60
1	c1	136	LEU	O-C-N	-6.07	115.69	122.12
1	c7	198	CYS	N-CA-C	6.07	117.69	111.14
1	cb	199	LYS	CA-C-O	6.07	127.19	120.82
1	cc	26	VAL	N-CA-CB	6.07	116.99	110.62
1	1d	209	ALA	N-CA-C	6.07	119.05	110.50
1	cI	18	ARG	CA-C-O	-6.07	114.12	120.55
1	cM	62	HIS	O-C-N	-6.07	115.81	122.67
1	dp	15	ILE	N-CA-C	6.07	117.25	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dx	126	VAL	CA-C-N	6.07	126.71	119.98
1	dx	126	VAL	C-N-CA	6.07	126.71	119.98
1	1l	198	CYS	N-CA-C	-6.07	106.04	113.50
1	dy	143	ARG	NE-CZ-NH2	-6.07	113.74	119.20
1	dH	4	GLN	CA-C-N	6.07	130.18	121.50
1	dH	4	GLN	C-N-CA	6.07	130.18	121.50
1	dT	141	ILE	O-C-N	-6.07	115.86	122.05
1	e1	27	VAL	N-CA-CB	6.07	117.65	110.55
1	e1	63	GLN	N-CA-C	6.07	118.86	111.82
1	e1	201	ILE	O-C-N	-6.07	115.98	121.87
1	el	116	GLY	O-C-N	-6.07	116.36	122.18
1	em	21	ASN	N-CA-C	6.07	117.56	111.07
1	eo	51	ASP	O-C-N	-6.07	115.82	122.07
1	ey	73	ILE	CA-C-O	6.07	127.25	120.64
1	eC	170	LYS	N-CA-CB	-6.07	100.88	110.22
1	eE	115	ILE	N-CA-C	6.07	117.54	110.62
1	eU	157	PRO	N-CA-CB	6.07	109.62	103.25
1	f1	101	GLY	O-C-N	-6.07	116.28	122.17
1	fd	167	ARG	NE-CZ-NH2	-6.07	113.74	119.20
1	ff	12	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	1w	112	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	fD	21	ASN	CA-CB-CG	-6.07	106.53	112.60
1	fV	62	HIS	CA-C-N	6.07	128.73	120.54
1	fV	62	HIS	C-N-CA	6.07	128.73	120.54
1	fX	161	PHE	CA-C-N	6.07	128.41	120.28
1	fX	161	PHE	C-N-CA	6.07	128.41	120.28
1	g4	43	LEU	N-CA-C	6.07	118.67	111.33
1	g7	156	GLY	CA-C-N	6.07	125.79	119.05
1	g7	156	GLY	C-N-CA	6.07	125.79	119.05
1	f	19	THR	N-CA-CB	6.07	119.14	110.16
1	t	114	GLN	OE1-CD-NE2	6.07	128.67	122.60
1	z	78	ALA	N-CA-C	6.07	117.56	111.07
1	C	117	TRP	CA-CB-CG	6.07	125.13	113.60
1	F	32	PHE	CA-CB-CG	-6.07	107.73	113.80
1	4	65	ALA	N-CA-CB	6.07	118.81	110.01
1	9	40	PHE	O-C-N	6.07	128.40	122.09
1	gk	98	GLU	N-CA-CB	6.07	118.96	110.11
1	gk	100	ARG	NE-CZ-NH1	6.07	127.56	121.50
1	gy	111	LEU	N-CA-C	6.07	118.67	111.33
1	gA	37	ILE	CA-C-N	6.07	125.95	119.28
1	gA	37	ILE	C-N-CA	6.07	125.95	119.28
1	gD	106	GLY	CA-C-N	6.07	128.66	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gD	106	GLY	C-N-CA	6.07	128.66	120.65
1	gV	121	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	hp	70	LYS	N-CA-C	6.07	117.97	111.36
1	hs	48	THR	N-CA-CB	6.07	117.44	109.55
1	hx	17	PRO	CA-C-N	6.07	128.69	120.38
1	hx	17	PRO	C-N-CA	6.07	128.69	120.38
1	hx	180	GLU	CA-C-N	6.07	128.20	120.56
1	hx	180	GLU	C-N-CA	6.07	128.20	120.56
1	hG	153	ILE	N-CA-C	6.07	117.40	109.58
1	i1	184	TRP	CA-C-O	6.07	126.85	120.42
1	ib	116	GLY	N-CA-C	6.07	119.98	112.64
1	iv	4	GLN	CA-C-O	6.07	129.18	120.51
1	iK	37	ILE	CA-C-N	6.07	125.78	119.05
1	iK	37	ILE	C-N-CA	6.07	125.78	119.05
1	iN	114	GLN	N-CA-C	6.07	117.56	111.07
1	iY	47	ALA	N-CA-C	6.07	119.26	110.28
1	jb	66	MET	CG-SD-CE	-6.07	87.56	100.90
1	jc	119	THR	N-CA-C	6.07	117.89	111.28
1	jl	212	GLU	CA-C-O	-6.07	114.40	121.07
1	jH	156	GLY	O-C-N	-6.07	115.70	121.77
1	k1	82	ARG	CG-CD-NE	-6.07	98.66	112.00
1	kv	84	HIS	CB-CG-CD2	6.07	139.08	131.20
1	kB	85	PRO	CA-C-O	-6.07	114.64	121.43
1	lo	176	GLN	OE1-CD-NE2	-6.07	116.53	122.60
1	28	129	ILE	CA-C-N	6.07	128.41	120.28
1	28	129	ILE	C-N-CA	6.07	128.41	120.28
1	lA	190	LEU	CA-C-O	-6.07	114.45	120.82
1	2g	86	VAL	CA-C-N	6.07	129.37	120.82
1	2g	86	VAL	C-N-CA	6.07	129.37	120.82
1	2n	130	TYR	CA-C-N	6.07	128.32	120.44
1	2n	130	TYR	C-N-CA	6.07	128.32	120.44
1	2p	80	TRP	CA-CB-CG	6.07	125.12	113.60
1	31	167	ARG	NE-CZ-NH1	6.07	127.56	121.50
1	39	88	ALA	N-CA-C	6.07	118.35	110.53
1	3d	87	HIS	ND1-CE1-NE2	6.07	114.47	108.40
1	3e	66	MET	O-C-N	-6.07	115.82	122.07
1	3q	177	ALA	CA-C-N	6.07	132.01	120.97
1	3q	177	ALA	C-N-CA	6.07	132.01	120.97
1	3v	189	LEU	CA-C-N	6.07	128.73	120.54
1	3v	189	LEU	C-N-CA	6.07	128.73	120.54
1	3A	169	TYR	O-C-N	-6.07	114.20	122.33
1	3B	131	LYS	CA-C-O	6.07	126.98	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3D	210	THR	O-C-N	-6.07	114.23	122.48
1	3O	62	HIS	CB-CG-CD2	-6.07	123.32	131.20
1	3O	175	GLU	O-C-N	-6.07	115.43	122.95
1	3Q	207	PRO	N-CA-CB	6.07	108.59	103.25
1	3Z	179	GLN	N-CA-C	6.07	118.69	111.71
1	4h	140	LYS	CA-C-N	6.07	128.20	120.56
1	4h	140	LYS	C-N-CA	6.07	128.20	120.56
1	4n	54	THR	N-CA-CB	6.07	119.03	110.12
1	4z	186	THR	N-CA-CB	6.07	120.28	110.40
1	4E	39	MET	O-C-N	-6.07	115.82	122.07
1	4I	40	PHE	CA-C-O	6.07	126.98	120.55
1	4Z	13	GLN	CA-C-O	6.07	128.21	121.11
1	5k	190	LEU	CA-C-N	6.07	128.32	120.56
1	5k	190	LEU	C-N-CA	6.07	128.32	120.56
1	5m	78	ALA	CA-C-N	6.07	128.41	120.28
1	5m	78	ALA	C-N-CA	6.07	128.41	120.28
1	5p	27	VAL	N-CA-C	6.07	116.84	110.72
1	5p	37	ILE	N-CA-C	6.07	120.25	112.67
1	5y	58	THR	N-CA-CB	6.07	118.80	110.01
1	5U	37	ILE	CA-C-N	6.07	125.55	119.24
1	5U	37	ILE	C-N-CA	6.07	125.55	119.24
1	5Y	209	ALA	N-CA-C	6.07	119.02	110.23
1	5Z	156	GLY	CA-C-N	6.07	127.42	119.84
1	5Z	156	GLY	C-N-CA	6.07	127.42	119.84
1	67	188	THR	N-CA-C	6.07	118.49	108.48
1	6d	228	ALA	N-CA-C	6.07	119.76	111.39
1	6s	151	LEU	O-C-N	-6.07	115.24	122.15
1	6A	87	HIS	CE1-NE2-CD2	-6.07	102.94	109.00
1	6N	178	SER	N-CA-CB	-6.07	101.95	111.05
1	6Q	62	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	75	19	THR	N-CA-C	6.07	117.89	111.28
1	7y	111	LEU	N-CA-C	-6.07	104.73	111.71
1	7J	183	ASN	OD1-CG-ND2	-6.07	116.53	122.60
1	7Z	126	VAL	O-C-N	6.07	127.75	121.87
1	8G	128	GLU	O-C-N	-6.07	115.23	122.15
1	8I	53	ASN	N-CA-C	6.07	117.56	111.07
1	96	12	HIS	CA-C-O	6.07	128.64	121.36
1	9f	19	THR	CB-CA-C	-6.07	100.72	110.79
1	9h	207	PRO	N-CA-C	6.07	120.73	111.15
1	9i	79	GLU	N-CA-C	6.07	117.56	111.07
1	9N	199	LYS	N-CA-C	6.07	118.67	111.33
1	9P	37	ILE	CA-C-N	6.07	127.42	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9P	37	ILE	C-N-CA	6.07	127.42	119.84
1	9Q	162	ARG	NH1-CZ-NH2	-6.07	111.41	119.30
1	9R	37	ILE	N-CA-C	6.07	121.98	108.88
1	9V	139	ASN	O-C-N	-6.07	115.69	122.12
1	ad	127	GLY	O-C-N	-6.07	114.82	122.70
1	aB	114	GLN	CA-C-N	6.07	129.03	120.42
1	aB	114	GLN	C-N-CA	6.07	129.03	120.42
1	b0	226	HIS	CB-CG-CD2	-6.07	123.31	131.20
1	bf	111	LEU	N-CA-C	6.07	117.89	111.28
1	bv	230	VAL	N-CA-C	-6.07	99.04	108.44
1	bD	159	GLU	O-C-N	-6.07	115.69	121.57
1	1a	134	ILE	N-CA-C	6.07	116.81	110.62
1	bR	93	PRO	CB-CA-C	6.07	121.57	111.56
1	1e	173	ARG	NH1-CZ-NH2	-6.07	111.42	119.30
1	cx	183	ASN	N-CA-C	6.07	117.56	111.07
1	cM	172	LEU	O-C-N	-6.07	115.69	122.12
1	d8	84	HIS	CE1-NE2-CD2	-6.07	102.93	109.00
1	1j	71	GLU	N-CA-C	6.07	118.69	111.71
1	1j	227	LYS	CA-C-O	6.07	127.19	120.82
1	dg	120	HIS	CA-CB-CG	6.07	119.86	113.80
1	dq	126	VAL	CB-CA-C	-6.07	103.85	112.22
1	dx	189	LEU	N-CA-C	6.07	118.67	111.33
1	1l	6	LEU	N-CA-CB	6.07	121.79	111.66
1	dF	187	GLU	CB-CG-CD	-6.07	102.29	112.60
1	dV	166	ASP	CA-C-N	6.07	128.32	120.44
1	dV	166	ASP	C-N-CA	6.07	128.32	120.44
1	eo	21	ASN	CA-C-N	6.07	128.41	120.28
1	eo	21	ASN	C-N-CA	6.07	128.41	120.28
1	eo	196	PRO	O-C-N	-6.07	115.27	122.24
1	er	164	TYR	N-CA-CB	6.07	119.04	110.12
1	eQ	159	GLU	O-C-N	-6.07	115.05	121.30
1	fb	165	VAL	N-CA-CB	6.07	117.65	110.55
1	fm	178	SER	CA-C-O	6.07	128.91	121.94
1	fS	214	MET	CA-C-N	6.07	132.33	121.66
1	fS	214	MET	C-N-CA	6.07	132.33	121.66
1	b	21	ASN	CA-CB-CG	6.07	118.67	112.60
1	g	112	GLN	N-CA-C	6.07	118.67	111.33
1	1	42	ALA	CA-C-O	-6.07	114.12	120.55
1	n	201	ILE	CB-CA-C	6.07	119.97	112.02
1	y	41	SER	N-CA-C	6.07	117.56	111.07
1	X	113	GLU	CA-C-N	6.07	128.32	120.44
1	X	113	GLU	C-N-CA	6.07	128.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	198	CYS	N-CA-CB	6.07	118.80	110.01
1	6	52	LEU	O-C-N	-6.07	115.82	122.07
1	6	229	ARG	CA-C-O	6.07	127.83	120.92
1	gi	97	ARG	NE-CZ-NH2	-6.06	113.74	119.20
1	gj	135	ILE	N-CA-CB	6.06	118.79	110.54
1	gt	173	ARG	CA-C-O	-6.06	114.45	120.70
1	gv	139	ASN	OD1-CG-ND2	6.06	128.66	122.60
1	gC	144	MET	O-C-N	-6.06	115.69	122.12
1	gQ	162	ARG	NE-CZ-NH2	6.06	124.66	119.20
1	hA	156	GLY	O-C-N	-6.06	115.71	121.77
1	hS	166	ASP	CB-CA-C	6.06	120.86	110.79
1	hU	214	MET	N-CA-C	6.06	117.89	111.28
1	hZ	66	MET	N-CA-CB	6.06	119.43	110.33
1	i9	130	TYR	CA-C-N	6.06	128.41	120.28
1	i9	130	TYR	C-N-CA	6.06	128.41	120.28
1	iG	153	ILE	N-CA-CB	6.06	117.74	110.95
1	iY	23	TRP	O-C-N	-6.06	115.69	122.12
1	kv	214	MET	CA-C-O	6.06	127.19	120.82
1	kz	168	PHE	CA-C-O	-6.06	114.45	120.82
1	lc	2	ILE	N-CA-CB	6.06	118.31	111.21
1	lc	15	ILE	N-CA-CB	6.06	119.59	110.13
1	ls	39	MET	CA-C-N	6.06	128.90	120.29
1	ls	39	MET	C-N-CA	6.06	128.90	120.29
1	lw	157	PRO	N-CA-C	6.06	121.72	113.84
1	2v	227	LYS	O-C-N	-6.06	115.03	122.55
1	2y	121	ASN	CA-CB-CG	6.06	118.66	112.60
1	2y	178	SER	CA-C-O	6.06	129.18	120.51
1	2L	73	ILE	N-CA-C	6.06	116.73	110.36
1	2U	119	THR	CA-CB-OG1	6.06	118.70	109.60
1	3J	148	THR	N-CA-CB	6.06	120.74	110.49
1	4s	174	ALA	CA-C-N	6.06	129.37	120.82
1	4s	174	ALA	C-N-CA	6.06	129.37	120.82
1	4A	221	VAL	CA-C-N	6.06	130.21	121.54
1	4A	221	VAL	C-N-CA	6.06	130.21	121.54
1	4C	115	ILE	N-CA-CB	6.06	119.67	110.58
1	4H	173	ARG	NE-CZ-NH2	-6.06	113.74	119.20
1	58	87	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	60	176	GLN	OE1-CD-NE2	6.06	128.66	122.60
1	6r	123	PRO	CA-C-N	-6.06	118.48	122.60
1	6r	123	PRO	C-N-CA	-6.06	118.48	122.60
1	6U	66	MET	N-CA-C	6.06	117.89	111.28
1	6U	176	GLN	CB-CG-CD	6.06	122.91	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	5	ASN	O-C-N	-6.06	115.08	122.05
1	7j	193	ASN	OD1-CG-ND2	-6.06	116.54	122.60
1	7q	34	PRO	N-CA-CB	6.06	109.55	102.76
1	7L	92	GLU	N-CA-C	6.06	123.21	109.81
1	7L	115	ILE	CA-C-N	6.06	126.67	119.94
1	7L	115	ILE	C-N-CA	6.06	126.67	119.94
1	7T	141	ILE	N-CA-C	6.06	116.81	110.62
1	7Z	182	LYS	CA-C-N	6.06	128.32	120.44
1	7Z	182	LYS	C-N-CA	6.06	128.32	120.44
1	8M	219	GLN	N-CA-CB	6.06	120.06	110.84
1	8R	177	ALA	CA-C-N	6.06	130.46	120.94
1	8R	177	ALA	C-N-CA	6.06	130.46	120.94
1	91	154	ARG	N-CA-C	6.06	123.72	110.80
1	9r	116	GLY	CA-C-N	6.06	128.32	120.44
1	9r	116	GLY	C-N-CA	6.06	128.32	120.44
1	9X	200	THR	CA-CB-OG1	6.06	118.70	109.60
1	ad	188	THR	CA-C-N	6.06	128.32	120.44
1	ad	188	THR	C-N-CA	6.06	128.32	120.44
1	11	165	VAL	N-CA-C	6.06	116.84	110.72
1	aI	66	MET	N-CA-C	6.06	117.97	111.36
1	aN	110	THR	CA-C-N	6.06	128.41	120.28
1	aN	110	THR	C-N-CA	6.06	128.41	120.28
1	c2	12	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	cD	114	GLN	N-CA-CB	6.06	119.03	110.12
1	cJ	224	PRO	N-CA-C	-6.06	106.13	114.98
1	cP	143	ARG	CA-C-N	6.06	129.53	120.31
1	cP	143	ARG	C-N-CA	6.06	129.53	120.31
1	cV	175	GLU	CA-CB-CG	6.06	126.23	114.10
1	dE	109	SER	O-C-N	-6.06	116.27	123.06
1	e2	20	LEU	N-CA-C	6.06	117.97	111.36
1	el	55	MET	CA-C-O	6.06	127.19	120.82
1	ex	26	VAL	CA-C-N	6.06	128.77	120.46
1	ex	26	VAL	C-N-CA	6.06	128.77	120.46
1	ez	179	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	eI	163	ASP	CA-C-N	6.06	128.69	120.44
1	eI	163	ASP	C-N-CA	6.06	128.69	120.44
1	eP	8	GLY	N-CA-C	6.06	118.63	111.35
1	f6	228	ALA	N-CA-C	6.06	118.60	110.35
1	fI	87	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	a	160	PRO	N-CA-C	6.06	124.96	112.47
1	h	56	LEU	CA-C-N	6.06	130.85	120.72
1	h	56	LEU	C-N-CA	6.06	130.85	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	52	LEU	N-CA-C	6.06	117.56	111.07
1	N	129	ILE	O-C-N	-6.06	115.59	121.90
1	T	118	MET	N-CA-CB	-6.06	101.52	110.49
1	gp	148	THR	CA-CB-OG1	6.06	118.69	109.60
1	gA	129	ILE	N-CA-C	6.06	116.84	110.72
1	gH	167	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	gI	189	LEU	CA-C-N	6.06	128.40	120.28
1	gI	189	LEU	C-N-CA	6.06	128.40	120.28
1	gU	128	GLU	N-CA-C	6.06	117.89	111.28
1	h2	78	ALA	N-CA-C	6.06	118.38	111.11
1	h4	74	ASN	CA-CB-CG	-6.06	106.54	112.60
1	ha	24	VAL	N-CA-C	6.06	116.80	110.62
1	ht	131	LYS	O-C-N	-6.06	115.69	122.12
1	hE	48	THR	CA-C-O	-6.06	113.19	120.41
1	hZ	51	ASP	CA-C-N	6.06	128.32	120.44
1	hZ	51	ASP	C-N-CA	6.06	128.32	120.44
1	ih	113	GLU	CB-CG-CD	6.06	122.91	112.60
1	ij	190	LEU	CA-C-O	6.06	127.19	120.82
1	iN	73	ILE	CA-C-N	6.06	128.72	120.54
1	iN	73	ILE	C-N-CA	6.06	128.72	120.54
1	iT	42	ALA	N-CA-C	6.06	117.97	111.36
1	je	201	ILE	CA-C-N	6.06	128.32	120.44
1	je	201	ILE	C-N-CA	6.06	128.32	120.44
1	jq	14	ALA	CA-C-N	6.06	132.88	121.97
1	jq	14	ALA	C-N-CA	6.06	132.88	121.97
1	js	54	THR	CA-C-N	6.06	128.32	120.44
1	js	54	THR	C-N-CA	6.06	128.32	120.44
1	jD	169	TYR	CA-C-N	6.06	128.32	120.44
1	jD	169	TYR	C-N-CA	6.06	128.32	120.44
1	jN	26	VAL	N-CA-C	6.06	116.73	110.36
1	k2	128	GLU	N-CA-CB	6.06	118.97	109.94
1	k5	100	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	kc	197	ASP	CA-C-N	6.06	128.40	120.28
1	kc	197	ASP	C-N-CA	6.06	128.40	120.28
1	kh	167	ARG	CA-C-N	6.06	128.90	120.29
1	kh	167	ARG	C-N-CA	6.06	128.90	120.29
1	km	199	LYS	CA-C-O	-6.06	114.41	120.90
1	ku	43	LEU	N-CA-C	6.06	117.89	111.28
1	kI	52	LEU	CA-C-N	6.06	128.69	120.38
1	kI	52	LEU	C-N-CA	6.06	128.69	120.38
1	kI	167	ARG	CA-C-N	6.06	129.22	120.79
1	kI	167	ARG	C-N-CA	6.06	129.22	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	78	ALA	N-CA-C	6.06	117.89	111.28
1	l9	24	VAL	N-CA-CB	-6.06	103.78	110.51
1	27	185	MET	CA-C-O	6.06	127.19	120.82
1	ln	191	VAL	CA-C-N	6.06	128.40	120.28
1	ln	191	VAL	C-N-CA	6.06	128.40	120.28
1	lI	114	GLN	O-C-N	6.06	128.31	122.07
1	2e	133	TRP	CB-CG-CD1	6.06	136.00	126.90
1	3d	73	ILE	O-C-N	-6.06	115.97	121.91
1	3m	56	LEU	CA-C-O	6.06	126.95	120.10
1	3B	27	VAL	N-CA-C	6.06	117.53	110.62
1	43	57	ASN	CA-CB-CG	-6.06	106.54	112.60
1	45	183	ASN	CA-CB-CG	-6.06	106.54	112.60
1	4g	81	ASP	N-CA-C	6.06	117.89	111.28
1	4n	20	LEU	O-C-N	-6.06	114.81	122.27
1	4H	70	LYS	CA-C-O	-6.06	114.45	120.82
1	4N	112	GLN	CG-CD-OE1	6.06	132.93	120.80
1	4U	167	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	5B	79	GLU	CA-C-N	6.06	128.40	120.28
1	5B	79	GLU	C-N-CA	6.06	128.40	120.28
1	5W	121	ASN	CB-CG-OD1	6.06	132.93	120.80
1	69	111	LEU	N-CA-CB	-6.06	100.88	110.22
1	6t	24	VAL	CA-CB-CG2	-6.06	100.09	110.40
1	6K	219	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	6U	8	GLY	O-C-N	-6.06	118.12	123.88
1	7b	154	ARG	CA-C-O	-6.06	114.95	121.38
1	7c	63	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	7s	153	ILE	N-CA-CB	6.06	118.42	111.39
1	7A	215	MET	N-CA-CB	6.06	118.86	110.07
1	7C	119	THR	CA-C-O	6.06	126.61	119.28
1	7D	192	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	7I	209	ALA	CA-C-O	6.06	127.04	120.43
1	7M	88	ALA	CA-C-N	6.06	131.39	121.87
1	7M	88	ALA	C-N-CA	6.06	131.39	121.87
1	7S	12	HIS	N-CA-CB	6.06	119.09	109.51
1	86	186	THR	CA-C-O	6.06	126.98	120.55
1	8c	210	THR	CA-C-O	-6.06	114.35	120.96
1	8d	74	ASN	CA-CB-CG	-6.06	106.54	112.60
1	8i	182	LYS	CA-C-N	6.06	128.32	120.44
1	8i	182	LYS	C-N-CA	6.06	128.32	120.44
1	8A	179	GLN	O-C-N	-6.06	115.69	122.12
1	8J	225	GLY	O-C-N	-6.06	115.87	122.54
1	8N	169	TYR	O-C-N	-6.06	115.54	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Y	67	GLN	CA-C-N	6.06	128.69	120.38
1	8Y	67	GLN	C-N-CA	6.06	128.69	120.38
1	8Y	110	THR	O-C-N	-6.06	115.88	122.79
1	9d	221	VAL	CG1-CB-CG2	-6.06	97.46	110.80
1	9m	141	ILE	CA-C-N	6.06	128.20	120.56
1	9m	141	ILE	C-N-CA	6.06	128.20	120.56
1	9o	123	PRO	N-CD-CG	6.06	112.30	103.20
1	9J	35	GLU	O-C-N	-6.06	114.21	122.33
1	9U	133	TRP	CA-C-N	6.06	128.20	120.56
1	9U	133	TRP	C-N-CA	6.06	128.20	120.56
1	an	75	GLU	CA-C-N	6.06	128.90	120.29
1	an	75	GLU	C-N-CA	6.06	128.90	120.29
1	aG	63	GLN	N-CA-C	6.06	117.89	111.28
1	aK	12	HIS	CA-CB-CG	6.06	119.86	113.80
1	aT	200	THR	O-C-N	-6.06	115.69	122.12
1	aV	68	MET	N-CA-C	6.06	117.89	111.28
1	bf	142	VAL	O-C-N	-6.06	115.88	121.94
1	bn	201	ILE	CA-C-O	6.06	127.60	121.17
1	br	5	ASN	CA-CB-CG	6.06	118.66	112.60
1	bA	179	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	bL	27	VAL	N-CA-C	6.06	116.80	110.62
1	cP	84	HIS	CB-CA-C	-6.06	101.75	111.02
1	1h	77	ALA	CA-C-N	6.06	128.40	120.28
1	1h	77	ALA	C-N-CA	6.06	128.40	120.28
1	cW	4	GLN	CA-C-O	6.06	127.78	120.99
1	d8	54	THR	N-CA-CB	6.06	119.03	110.12
1	dc	14	ALA	N-CA-C	6.06	118.59	110.35
1	1j	183	ASN	N-CA-C	6.06	118.38	111.11
1	dq	109	SER	N-CA-C	6.06	118.39	109.24
1	dE	41	SER	CA-C-N	6.06	129.01	120.28
1	dE	41	SER	C-N-CA	6.06	129.01	120.28
1	dJ	47	ALA	N-CA-C	6.06	119.40	109.76
1	e4	198	CYS	O-C-N	-6.06	115.83	122.07
1	eC	28	GLU	N-CA-C	6.06	117.89	111.28
1	eZ	104	ILE	CA-C-O	-6.06	114.08	120.57
1	f3	35	GLU	CA-C-N	6.06	130.24	120.30
1	f3	35	GLU	C-N-CA	6.06	130.24	120.30
1	f7	92	GLU	N-CA-C	6.06	121.77	113.16
1	g4	87	HIS	N-CA-C	6.06	119.02	110.23
1	g5	101	GLY	O-C-N	-6.06	116.29	122.17
1	f	79	GLU	N-CA-C	6.06	117.89	111.28
1	g	57	ASN	OD1-CG-ND2	-6.06	116.54	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	117	TRP	CE2-CD2-CE3	6.06	124.86	118.80
1	Q	38	PRO	O-C-N	-6.06	114.08	122.27
1	W	80	TRP	CA-C-N	6.06	128.32	120.44
1	W	80	TRP	C-N-CA	6.06	128.32	120.44
1	8	224	PRO	N-CA-C	6.06	124.96	112.47
1	ga	127	GLY	CA-C-N	6.06	128.32	120.44
1	ga	127	GLY	C-N-CA	6.06	128.32	120.44
1	ge	193	ASN	CA-C-N	6.06	129.32	120.71
1	ge	193	ASN	C-N-CA	6.06	129.32	120.71
1	gf	33	SER	N-CA-C	6.06	118.01	108.55
1	hH	19	THR	O-C-N	-6.06	115.54	122.09
1	hU	167	ARG	CB-CA-C	-6.06	100.73	110.79
1	iG	90	PRO	CB-CA-C	6.06	121.56	111.56
1	iI	167	ARG	CA-C-N	6.06	128.32	120.44
1	iI	167	ARG	C-N-CA	6.06	128.32	120.44
1	iI	223	GLY	CA-C-N	-6.06	112.26	119.84
1	iI	223	GLY	C-N-CA	-6.06	112.26	119.84
1	iL	221	VAL	CA-CB-CG1	6.06	120.70	110.40
1	iU	70	LYS	N-CA-C	6.06	117.89	111.28
1	j9	124	ILE	CA-CB-CG1	6.06	120.70	110.40
1	jd	27	VAL	N-CA-C	6.06	116.80	110.62
1	jB	33	SER	O-C-N	-6.06	115.78	121.72
1	jJ	84	HIS	O-C-N	-6.06	113.05	121.47
1	jK	101	GLY	O-C-N	-6.06	116.31	122.19
1	1Z	88	ALA	CA-C-O	6.06	127.96	121.05
1	2A	22	ALA	CA-C-N	6.06	129.01	120.28
1	2A	22	ALA	C-N-CA	6.06	129.01	120.28
1	2H	154	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	4q	100	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	4q	120	HIS	CA-CB-CG	6.06	119.86	113.80
1	4H	149	SER	O-C-N	-6.06	115.26	122.65
1	4I	230	VAL	O-C-N	-6.06	117.32	122.65
1	4U	113	GLU	CA-C-N	6.06	128.32	120.44
1	4U	113	GLU	C-N-CA	6.06	128.32	120.44
1	4V	137	GLY	O-C-N	-6.06	116.37	122.19
1	74	159	GLU	CA-C-N	6.06	126.07	119.89
1	74	159	GLU	C-N-CA	6.06	126.07	119.89
1	78	48	THR	CA-C-O	-6.06	114.20	120.87
1	78	87	HIS	CA-C-O	6.06	127.22	120.92
1	7A	14	ALA	N-CA-CB	-6.06	100.91	110.06
1	7C	212	GLU	N-CA-CB	-6.06	101.21	110.12
1	8K	228	ALA	N-CA-C	6.06	119.25	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9E	166	ASP	CA-C-N	6.06	128.40	120.28
1	9E	166	ASP	C-N-CA	6.06	128.40	120.28
1	Y	220	GLY	CA-C-O	-6.06	116.29	122.59
1	a6	93	PRO	CA-C-O	-6.06	114.71	121.32
1	aq	195	ASN	O-C-N	-6.06	115.39	121.27
1	bd	229	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	bz	102	SER	N-CA-C	6.06	118.66	111.33
1	bG	90	PRO	N-CA-C	6.06	124.96	112.47
1	bM	211	LEU	N-CA-CB	6.06	119.67	110.28
1	bU	93	PRO	CB-CA-C	6.06	119.34	111.64
1	bZ	100	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	1c	198	CYS	CA-C-O	6.06	126.06	119.15
1	ci	136	LEU	N-CA-C	6.06	118.66	111.33
1	cr	126	VAL	CA-CB-CG2	6.06	120.70	110.40
1	cu	203	LYS	N-CA-C	6.06	117.56	111.07
1	cK	88	ALA	CA-C-N	6.06	131.39	121.87
1	cK	88	ALA	C-N-CA	6.06	131.39	121.87
1	d8	222	GLY	CA-C-N	6.06	129.12	121.36
1	d8	222	GLY	C-N-CA	6.06	129.12	121.36
1	dr	92	GLU	O-C-N	-6.06	116.41	121.38
1	ds	39	MET	N-CA-CB	6.06	118.80	110.01
1	1m	142	VAL	CA-C-N	6.06	128.68	120.44
1	1m	142	VAL	C-N-CA	6.06	128.68	120.44
1	1o	23	TRP	N-CA-C	6.06	117.89	111.28
1	e5	123	PRO	CA-C-N	-6.06	115.94	122.85
1	e5	123	PRO	C-N-CA	-6.06	115.94	122.85
1	ew	224	PRO	CB-CA-C	6.06	120.53	111.68
1	eK	1	PRO	CB-CA-C	6.06	121.62	110.10
1	f5	165	VAL	O-C-N	-6.06	115.99	121.87
1	fa	190	LEU	CA-C-O	-6.06	114.40	121.07
1	ft	186	THR	N-CA-CB	6.06	119.64	110.30
1	fY	198	CYS	CA-C-N	6.06	128.40	120.28
1	fY	198	CYS	C-N-CA	6.06	128.40	120.28
1	h	72	THR	N-CA-CB	6.06	119.23	110.20
1	x	98	GLU	O-C-N	-6.06	114.35	121.32
1	R	19	THR	N-CA-CB	6.06	118.80	110.01
1	X	87	HIS	CA-C-N	6.06	129.90	120.75
1	X	87	HIS	C-N-CA	6.06	129.90	120.75
1	gb	166	ASP	CA-C-N	6.06	128.68	120.38
1	gb	166	ASP	C-N-CA	6.06	128.68	120.38
1	gp	143	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	1D	6	LEU	N-CA-C	6.06	118.12	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gs	18	ARG	NE-CZ-NH1	-6.06	115.44	121.50
1	gs	165	VAL	CA-C-N	6.06	129.21	120.79
1	gs	165	VAL	C-N-CA	6.06	129.21	120.79
1	gv	160	PRO	N-CA-CB	6.06	109.14	102.72
1	gJ	159	GLU	CA-C-N	6.06	126.00	119.76
1	gJ	159	GLU	C-N-CA	6.06	126.00	119.76
1	gU	163	ASP	N-CA-C	-6.06	104.60	111.14
1	h3	133	TRP	CE2-CD2-CE3	6.06	124.86	118.80
1	1M	154	ARG	O-C-N	-6.06	116.00	123.33
1	ih	11	VAL	O-C-N	-6.06	116.72	123.26
1	iz	107	THR	CA-C-O	6.06	126.09	119.24
1	iS	5	ASN	CA-CB-CG	6.06	118.66	112.60
1	j6	195	ASN	CA-C-N	6.06	127.41	119.84
1	j6	195	ASN	C-N-CA	6.06	127.41	119.84
1	j7	96	MET	N-CA-C	6.06	123.71	110.80
1	jj	73	ILE	CB-CA-C	-6.06	104.21	111.97
1	jM	25	LYS	N-CA-C	6.06	118.68	111.71
1	jM	137	GLY	CA-C-N	6.06	128.40	120.28
1	jM	137	GLY	C-N-CA	6.06	128.40	120.28
1	jQ	155	GLN	CA-C-N	6.06	131.38	121.87
1	jQ	155	GLN	C-N-CA	6.06	131.38	121.87
1	jQ	187	GLU	N-CA-C	6.06	120.29	113.02
1	k4	21	ASN	CA-C-N	6.06	128.40	120.28
1	k4	21	ASN	C-N-CA	6.06	128.40	120.28
1	k9	168	PHE	CA-CB-CG	-6.06	107.74	113.80
1	k9	203	LYS	N-CA-C	6.06	117.55	111.07
1	kc	110	THR	O-C-N	-6.06	116.27	123.06
1	kr	34	PRO	N-CA-CB	6.06	109.61	103.25
1	kS	97	ARG	O-C-N	-6.06	115.71	122.86
1	kW	90	PRO	CA-C-N	6.06	128.69	120.63
1	kW	90	PRO	C-N-CA	6.06	128.69	120.63
1	l6	62	HIS	ND1-CG-CD2	6.06	112.16	106.10
1	le	180	GLU	CA-C-O	-6.06	114.46	120.82
1	lf	152	ASP	N-CA-CB	-6.06	101.46	110.61
1	28	131	LYS	N-CA-C	-6.06	104.67	111.28
1	29	25	LYS	CA-C-O	-6.06	114.13	120.55
1	2b	130	TYR	N-CA-C	6.06	117.88	111.28
1	2t	135	ILE	CA-CB-CG2	6.06	120.80	110.50
1	2z	92	GLU	CA-C-O	-6.06	113.70	120.25
1	2A	19	THR	N-CA-C	6.06	117.97	111.36
1	2F	94	GLY	CA-C-N	6.06	129.73	120.82
1	2F	94	GLY	C-N-CA	6.06	129.73	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	30	217	ALA	CB-CA-C	-6.06	99.26	109.50
1	34	214	MET	CB-CA-C	-6.06	100.73	110.79
1	39	215	MET	CG-SD-CE	-6.06	87.57	100.90
1	3c	132	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	3j	87	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	3r	154	ARG	NH1-CZ-NH2	6.06	127.18	119.30
1	3E	19	THR	CA-C-O	-6.06	114.46	120.82
1	3I	146	SER	O-C-N	-6.06	114.35	121.32
1	3O	18	ARG	CA-C-N	6.06	128.40	120.28
1	3O	18	ARG	C-N-CA	6.06	128.40	120.28
1	3T	142	VAL	N-CA-C	6.06	118.67	111.09
1	4c	26	VAL	O-C-N	-6.06	115.97	121.91
1	4e	2	ILE	N-CA-CB	6.06	118.87	111.60
1	4y	161	PHE	O-C-N	-6.06	115.70	122.12
1	4W	172	LEU	CA-C-O	6.06	126.94	119.97
1	4W	209	ALA	O-C-N	-6.06	115.95	123.04
1	5t	78	ALA	CA-C-N	6.06	128.40	120.28
1	5t	78	ALA	C-N-CA	6.06	128.40	120.28
1	5L	57	ASN	O-C-N	-6.06	115.70	122.12
1	5Q	161	PHE	CA-C-N	6.06	128.40	120.28
1	5Q	161	PHE	C-N-CA	6.06	128.40	120.28
1	5V	87	HIS	N-CA-C	6.06	119.46	111.28
1	61	183	ASN	CA-C-N	6.06	128.32	120.44
1	61	183	ASN	C-N-CA	6.06	128.32	120.44
1	62	88	ALA	N-CA-C	6.06	119.52	109.46
1	64	210	THR	CA-C-N	6.06	129.00	120.28
1	64	210	THR	C-N-CA	6.06	129.00	120.28
1	6b	165	VAL	CA-C-N	6.06	128.32	120.44
1	6b	165	VAL	C-N-CA	6.06	128.32	120.44
1	6h	195	ASN	CA-C-O	-6.06	113.84	120.69
1	6k	75	GLU	N-CA-C	6.06	117.55	111.07
1	6k	173	ARG	N-CA-C	6.06	118.85	111.82
1	6F	192	GLN	CA-C-O	6.06	126.97	120.55
1	6M	9	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	6Z	68	MET	CA-C-O	6.06	126.97	120.55
1	7m	90	PRO	CB-CA-C	6.06	118.99	111.23
1	7P	88	ALA	CA-C-O	6.06	127.39	120.54
1	8z	52	LEU	CA-C-N	6.06	128.32	120.44
1	8z	52	LEU	C-N-CA	6.06	128.32	120.44
1	8z	206	GLY	CA-C-N	6.06	127.42	119.84
1	8z	206	GLY	C-N-CA	6.06	127.42	119.84
1	8O	112	GLN	N-CA-CB	-6.06	101.21	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	179	GLN	N-CA-C	6.06	117.88	111.28
1	8Z	164	TYR	CA-C-O	6.06	127.18	120.82
1	90	209	ALA	CA-C-O	6.06	126.58	120.88
1	9u	148	THR	O-C-N	-6.06	116.48	123.33
1	9u	226	HIS	O-C-N	-6.06	115.79	122.09
1	9Q	224	PRO	N-CD-CG	6.06	112.29	103.20
1	9R	166	ASP	CA-CB-CG	6.06	118.66	112.60
1	a0	45	GLU	O-C-N	-6.06	115.44	122.95
1	a2	205	LEU	CA-C-O	6.06	127.18	120.82
1	af	179	GLN	N-CA-C	6.06	118.38	111.11
1	ar	186	THR	O-C-N	-6.06	115.70	122.12
1	at	55	MET	O-C-N	-6.06	115.79	122.09
1	aC	96	MET	O-C-N	-6.06	115.83	122.07
1	bf	144	MET	N-CA-CB	-6.06	101.19	110.16
1	bm	168	PHE	N-CA-CB	-6.06	101.19	110.16
1	bt	149	SER	N-CA-CB	6.06	120.73	110.49
1	by	40	PHE	O-C-N	6.06	128.54	122.12
1	bN	115	ILE	O-C-N	-6.06	115.99	121.87
1	bW	69	LEU	CA-C-N	6.06	128.89	120.29
1	bW	69	LEU	C-N-CA	6.06	128.89	120.29
1	1d	1	PRO	CA-N-CD	-6.06	103.52	112.00
1	cg	97	ARG	NH1-CZ-NH2	6.06	127.18	119.30
1	db	125	PRO	CB-CA-C	6.06	121.72	112.27
1	dc	120	HIS	CG-CD2-NE2	6.06	113.26	107.20
1	dd	207	PRO	CA-C-N	6.06	130.97	122.36
1	dd	207	PRO	C-N-CA	6.06	130.97	122.36
1	dF	120	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	ef	117	TRP	CG-CD2-CE3	-6.06	127.84	133.90
1	et	143	ARG	CA-C-O	-6.06	113.00	119.97
1	eT	32	PHE	N-CA-C	-6.06	104.26	112.26
1	f4	72	THR	CA-C-N	6.06	128.19	120.56
1	f4	72	THR	C-N-CA	6.06	128.19	120.56
1	fy	112	GLN	O-C-N	-6.06	115.24	122.15
1	fB	159	GLU	CA-C-O	-6.06	114.40	120.64
1	1A	132	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	fY	97	ARG	O-C-N	-6.06	115.86	123.01
1	g7	125	PRO	CA-C-O	-6.06	116.83	121.31
1	s	173	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	N	119	THR	N-CA-C	-6.06	105.54	113.17
1	R	32	PHE	N-CA-C	-6.06	105.72	112.57
1	ga	62	HIS	ND1-CG-CD2	6.06	112.16	106.10
1	gd	110	THR	CA-CB-OG1	6.06	118.69	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	158	LYS	CB-CG-CD	6.06	125.23	111.30
1	gv	20	LEU	N-CA-C	6.06	117.55	111.07
1	1J	92	GLU	O-C-N	-6.06	115.06	121.30
1	hB	107	THR	N-CA-C	-6.06	106.02	113.41
1	hB	191	VAL	O-C-N	-6.06	115.41	122.07
1	hE	40	PHE	CA-C-N	6.06	128.65	120.65
1	hE	40	PHE	C-N-CA	6.06	128.65	120.65
1	hP	1	PRO	CA-N-CD	-6.06	103.52	112.00
1	hT	173	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	hY	47	ALA	O-C-N	-6.06	115.89	122.79
1	1N	187	GLU	O-C-N	-6.06	115.83	122.07
1	1N	214	MET	N-CA-CB	6.06	119.29	110.26
1	i7	4	GLN	CB-CA-C	6.06	119.98	111.86
1	1Q	58	THR	CA-CB-CG2	-6.06	100.20	110.50
1	iB	188	THR	CA-C-N	6.06	128.32	120.44
1	iB	188	THR	C-N-CA	6.06	128.32	120.44
1	iU	16	SER	CA-C-N	6.06	125.68	119.56
1	iU	16	SER	C-N-CA	6.06	125.68	119.56
1	iU	72	THR	N-CA-C	6.06	117.88	111.28
1	jm	129	ILE	N-CA-CB	6.06	117.23	110.51
1	jv	17	PRO	N-CA-CB	6.06	110.22	103.44
1	1W	118	MET	CA-C-O	6.06	126.61	119.28
1	jM	93	PRO	CA-C-N	6.06	131.39	120.79
1	jM	93	PRO	C-N-CA	6.06	131.39	120.79
1	jP	133	TRP	CA-C-N	6.06	128.76	120.46
1	jP	133	TRP	C-N-CA	6.06	128.76	120.46
1	k9	159	GLU	CA-C-N	6.06	126.00	119.76
1	k9	159	GLU	C-N-CA	6.06	126.00	119.76
1	kc	182	LYS	N-CA-C	6.06	117.96	111.36
1	kk	209	ALA	N-CA-C	6.06	118.53	110.53
1	ko	9	GLN	CA-C-O	6.06	126.74	119.59
1	ko	34	PRO	CA-N-CD	-6.06	103.52	112.00
1	22	152	ASP	O-C-N	-6.06	115.07	122.34
1	kA	102	SER	O-C-N	-6.06	114.21	122.33
1	kB	180	GLU	N-CA-CB	6.06	119.03	110.12
1	kM	141	ILE	N-CA-C	6.06	116.72	110.36
1	kU	159	GLU	CA-C-O	6.06	125.87	119.69
1	kW	191	VAL	N-CA-C	6.06	116.84	110.72
1	l2	140	LYS	O-C-N	-6.06	115.70	122.12
1	l5	176	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	ln	132	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	lo	87	HIS	CE1-NE2-CD2	-6.06	102.94	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ls	21	ASN	CB-CG-OD1	6.06	132.91	120.80
1	ly	168	PHE	CA-C-N	6.06	128.40	120.28
1	ly	168	PHE	C-N-CA	6.06	128.40	120.28
1	lL	39	MET	N-CA-C	6.06	117.55	111.07
1	2c	229	ARG	CA-C-N	6.06	131.87	121.63
1	2c	229	ARG	C-N-CA	6.06	131.87	121.63
1	2m	181	VAL	N-CA-C	6.06	116.80	110.62
1	2z	227	LYS	N-CA-C	6.06	117.88	111.28
1	2I	80	TRP	CA-C-N	6.06	128.89	120.29
1	2I	80	TRP	C-N-CA	6.06	128.89	120.29
1	2U	193	ASN	CB-CG-OD1	6.06	132.92	120.80
1	39	156	GLY	O-C-N	-6.06	115.71	121.77
1	3a	145	TYR	O-C-N	6.06	128.31	122.07
1	3q	70	LYS	CA-C-N	6.06	128.40	120.28
1	3q	70	LYS	C-N-CA	6.06	128.40	120.28
1	3J	161	PHE	CA-C-O	-6.06	114.13	120.55
1	3Q	107	THR	N-CA-C	6.06	117.68	111.14
1	3W	179	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	3X	201	ILE	CA-C-N	6.06	128.31	120.44
1	3X	201	ILE	C-N-CA	6.06	128.31	120.44
1	42	24	VAL	N-CA-C	6.06	116.80	110.62
1	4k	161	PHE	N-CA-C	6.06	118.68	111.71
1	4u	72	THR	CA-C-N	6.06	128.41	120.60
1	4u	72	THR	C-N-CA	6.06	128.41	120.60
1	4V	113	GLU	CA-C-N	6.06	128.31	120.44
1	4V	113	GLU	C-N-CA	6.06	128.31	120.44
1	4Y	75	GLU	O-C-N	-6.06	115.83	122.07
1	5R	157	PRO	N-CA-CB	6.06	109.61	103.25
1	60	4	GLN	CG-CD-NE2	6.06	125.48	116.40
1	60	30	LYS	O-C-N	-6.06	114.91	122.24
1	60	91	ILE	O-C-N	-6.06	116.49	122.97
1	6f	165	VAL	CA-C-N	6.06	128.31	120.44
1	6f	165	VAL	C-N-CA	6.06	128.31	120.44
1	6k	108	THR	CA-C-O	6.06	126.63	119.48
1	6D	203	LYS	N-CA-CB	6.06	119.03	110.12
1	6J	98	GLU	O-C-N	-6.06	114.65	121.43
1	6O	216	THR	CB-CA-C	-6.06	100.74	110.79
1	7m	77	ALA	CB-CA-C	-6.06	101.12	110.81
1	7B	146	SER	CA-C-O	6.06	123.23	119.29
1	7D	40	PHE	CA-C-N	6.06	128.89	120.29
1	7D	40	PHE	C-N-CA	6.06	128.89	120.29
1	7R	118	MET	N-CA-C	6.06	118.66	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7R	144	MET	N-CA-C	6.06	117.88	111.28
1	8s	72	THR	O-C-N	-6.06	115.83	122.07
1	8y	200	THR	N-CA-C	6.06	117.55	111.07
1	8G	126	VAL	CA-C-N	6.06	126.66	119.94
1	8G	126	VAL	C-N-CA	6.06	126.66	119.94
1	9q	62	HIS	CG-ND1-CE1	-6.06	99.00	109.30
1	ae	225	GLY	CA-C-N	6.06	133.11	121.54
1	ae	225	GLY	C-N-CA	6.06	133.11	121.54
1	aj	25	LYS	CA-C-N	6.06	128.76	120.46
1	aj	25	LYS	C-N-CA	6.06	128.76	120.46
1	aq	224	PRO	N-CA-C	6.06	121.83	113.65
1	aF	217	ALA	CA-C-N	6.06	131.19	122.35
1	aF	217	ALA	C-N-CA	6.06	131.19	122.35
1	aG	16	SER	CA-C-O	-6.06	114.06	119.75
1	bg	51	ASP	O-C-N	6.06	128.54	122.12
1	bj	109	SER	CA-C-N	6.06	129.90	120.75
1	bj	109	SER	C-N-CA	6.06	129.90	120.75
1	bk	167	ARG	N-CA-C	6.06	117.96	111.36
1	bn	63	GLN	N-CA-C	6.06	118.68	111.71
1	18	132	ARG	NE-CZ-NH2	6.06	124.65	119.20
1	bS	189	LEU	N-CA-C	6.06	117.88	111.28
1	bT	59	VAL	CB-CA-C	-6.06	102.91	111.21
1	ca	226	HIS	O-C-N	-6.06	116.32	123.41
1	cs	204	ALA	O-C-N	-6.06	115.55	122.09
1	cw	204	ALA	N-CA-C	6.06	117.55	111.07
1	cJ	50	GLN	CA-C-O	-6.06	114.00	120.42
1	cO	229	ARG	CD-NE-CZ	-6.06	115.92	124.40
1	d2	121	ASN	O-C-N	-6.06	114.21	121.12
1	d7	62	HIS	CB-CG-ND1	-6.06	113.61	122.70
1	d7	87	HIS	O-C-N	-6.06	114.77	122.34
1	dc	159	GLU	CA-C-N	6.06	126.84	120.12
1	dc	159	GLU	C-N-CA	6.06	126.84	120.12
1	dF	8	GLY	O-C-N	-6.06	114.82	122.70
1	dP	63	GLN	O-C-N	-6.06	115.83	122.07
1	dS	10	MET	N-CA-CB	6.06	118.87	109.97
1	dS	51	ASP	CA-C-O	6.06	126.97	120.55
1	e6	166	ASP	N-CA-C	6.06	118.85	111.82
1	1p	6	LEU	CA-C-O	-6.06	114.09	120.63
1	ei	186	THR	N-CA-C	6.06	117.55	111.07
1	eq	115	ILE	CA-C-N	6.06	126.81	120.03
1	eq	115	ILE	C-N-CA	6.06	126.81	120.03
1	ev	121	ASN	CA-C-O	-6.06	114.86	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eE	55	MET	CG-SD-CE	-6.06	87.57	100.90
1	eQ	39	MET	CA-C-N	6.06	128.72	120.54
1	eQ	39	MET	C-N-CA	6.06	128.72	120.54
1	eZ	21	ASN	CA-C-O	6.06	126.97	120.55
1	f2	82	ARG	CA-C-O	-6.06	112.48	119.14
1	f4	65	ALA	N-CA-C	6.06	117.88	111.28
1	fg	112	GLN	CG-CD-NE2	-6.06	107.31	116.40
1	fg	121	ASN	CA-CB-CG	-6.06	106.54	112.60
1	ft	139	ASN	CA-C-N	6.06	128.72	120.54
1	ft	139	ASN	C-N-CA	6.06	128.72	120.54
1	fv	214	MET	N-CA-C	6.06	117.88	111.28
1	fL	72	THR	O-C-N	-6.06	115.25	122.15
1	fO	196	PRO	N-CA-C	6.06	121.52	113.40
1	fQ	103	ASP	CA-CB-CG	-6.06	106.54	112.60
1	1A	170	LYS	CA-C-N	6.06	128.40	120.28
1	1A	170	LYS	C-N-CA	6.06	128.40	120.28
1	fY	148	THR	N-CA-C	6.06	119.13	110.10
1	y	204	ALA	N-CA-C	6.06	117.55	111.07
1	O	168	PHE	CA-C-N	6.06	128.31	120.44
1	O	168	PHE	C-N-CA	6.06	128.31	120.44
1	hd	229	ARG	NH1-CZ-NH2	-6.06	111.43	119.30
1	hh	87	HIS	CA-C-O	6.06	127.13	120.71
1	ht	58	THR	O-C-N	-6.06	115.83	122.07
1	1K	180	GLU	CA-C-N	6.06	128.19	120.56
1	1K	180	GLU	C-N-CA	6.06	128.19	120.56
1	hD	121	ASN	CA-C-O	6.06	125.36	119.55
1	hV	167	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	hY	97	ARG	CD-NE-CZ	-6.06	115.92	124.40
1	j9	169	TYR	CA-CB-CG	-6.06	103.00	113.90
1	jD	87	HIS	O-C-N	-6.06	114.81	122.26
1	jH	191	VAL	O-C-N	-6.06	116.00	121.87
1	jP	39	MET	N-CA-C	6.06	117.55	111.07
1	1Y	226	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	k5	148	THR	O-C-N	-6.06	115.71	122.86
1	kr	157	PRO	N-CA-CB	6.06	109.32	103.51
1	23	221	VAL	N-CA-C	6.06	116.80	110.62
1	le	127	GLY	CA-C-O	6.06	127.08	120.66
1	lL	58	THR	O-C-N	-6.06	115.14	122.22
1	2z	13	GLN	CA-C-N	6.06	129.31	120.71
1	2z	13	GLN	C-N-CA	6.06	129.31	120.71
1	2K	87	HIS	CG-CD2-NE2	6.06	113.26	107.20
1	3f	21	ASN	OD1-CG-ND2	-6.06	116.54	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	95	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	3P	229	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	45	162	ARG	NE-CZ-NH2	-6.06	113.75	119.20
1	4Q	120	HIS	CE1-NE2-CD2	-6.06	102.94	109.00
1	5S	120	HIS	CB-CG-CD2	-6.06	123.33	131.20
1	6E	54	THR	N-CA-CB	6.06	118.79	110.01
1	83	171	THR	CA-C-O	6.06	126.94	119.79
1	9p	68	MET	O-C-N	-6.06	115.25	122.15
1	a4	148	THR	N-CA-C	6.06	119.26	110.42
1	ae	16	SER	O-C-N	-6.06	114.87	121.53
1	b0	103	ASP	CA-C-N	6.06	128.76	120.46
1	b0	103	ASP	C-N-CA	6.06	128.76	120.46
1	bD	75	GLU	O-C-N	-6.06	114.82	122.27
1	bK	87	HIS	ND1-CE1-NE2	6.06	114.46	108.40
1	bU	113	GLU	O-C-N	-6.06	114.82	122.27
1	c7	35	GLU	O-C-N	-6.06	114.10	122.46
1	cb	193	ASN	CA-CB-CG	-6.06	106.54	112.60
1	d5	102	SER	N-CA-C	-6.06	104.60	112.23
1	dm	200	THR	CA-C-N	6.06	128.19	120.56
1	dm	200	THR	C-N-CA	6.06	128.19	120.56
1	du	212	GLU	N-CA-C	6.06	118.38	111.11
1	e1	102	SER	CA-C-N	6.06	128.89	120.29
1	e1	102	SER	C-N-CA	6.06	128.89	120.29
1	eF	70	LYS	N-CA-C	6.06	117.55	111.07
1	eL	211	LEU	CA-C-N	6.06	128.40	120.28
1	eL	211	LEU	C-N-CA	6.06	128.40	120.28
1	eU	113	GLU	N-CA-CB	6.06	118.79	110.01
1	fa	55	MET	N-CA-C	6.06	118.38	111.11
1	fc	63	GLN	OE1-CD-NE2	-6.06	116.54	122.60
1	g6	75	GLU	N-CA-C	6.06	117.55	111.07
1	D	77	ALA	N-CA-C	6.06	117.55	111.07
1	E	23	TRP	CA-CB-CG	6.06	125.11	113.60
1	8	18	ARG	NE-CZ-NH1	6.06	127.56	121.50
1	g8	62	HIS	ND1-CG-CD2	6.05	112.15	106.10
1	ge	28	GLU	O-C-N	-6.05	115.70	122.12
1	1C	45	GLU	O-C-N	-6.05	114.95	122.82
1	gw	173	ARG	CA-C-O	6.05	127.18	120.82
1	gE	28	GLU	N-CA-C	6.05	117.55	111.07
1	h3	128	GLU	CB-CG-CD	6.05	122.89	112.60
1	hg	67	GLN	CA-C-N	6.05	128.31	120.44
1	hg	67	GLN	C-N-CA	6.05	128.31	120.44
1	hj	28	GLU	N-CA-C	6.05	118.66	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	201	ILE	CA-C-O	-6.05	114.75	121.17
1	hA	37	ILE	CA-C-O	-6.05	114.11	118.71
1	hN	15	ILE	N-CA-C	6.05	117.54	109.37
1	i4	171	THR	CA-C-N	6.05	128.39	120.28
1	i4	171	THR	C-N-CA	6.05	128.39	120.28
1	i8	187	GLU	N-CA-C	6.05	117.96	111.36
1	ii	97	ARG	NE-CZ-NH2	-6.05	113.75	119.20
1	iF	143	ARG	NH1-CZ-NH2	-6.05	111.43	119.30
1	iK	199	LYS	CA-C-O	6.05	126.97	120.55
1	j1	194	ALA	CA-C-O	6.05	128.90	121.94
1	jm	168	PHE	CA-C-N	6.05	128.39	120.28
1	jm	168	PHE	C-N-CA	6.05	128.39	120.28
1	jr	196	PRO	CA-C-N	6.05	128.71	120.54
1	jr	196	PRO	C-N-CA	6.05	128.71	120.54
1	1W	116	GLY	CA-C-N	6.05	128.39	120.28
1	1W	116	GLY	C-N-CA	6.05	128.39	120.28
1	jM	74	ASN	CA-C-O	6.05	126.84	120.42
1	20	17	PRO	N-CA-C	-6.05	105.64	113.57
1	km	54	THR	N-CA-C	6.05	117.96	111.36
1	kV	84	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	l5	123	PRO	CA-C-O	-6.05	114.75	121.23
1	l9	33	SER	CA-C-O	-6.05	114.15	120.87
1	ld	19	THR	CA-CB-CG2	6.05	120.79	110.50
1	lv	212	GLU	CB-CA-C	-6.05	100.56	110.85
1	lG	100	ARG	CA-C-N	6.05	126.66	120.00
1	lG	100	ARG	C-N-CA	6.05	126.66	120.00
1	lL	63	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	lN	143	ARG	NE-CZ-NH1	-6.05	115.45	121.50
1	2g	78	ALA	N-CA-C	6.05	117.88	111.28
1	2o	171	THR	CA-CB-OG1	-6.05	100.52	109.60
1	2E	204	ALA	CA-C-N	6.05	128.31	120.44
1	2E	204	ALA	C-N-CA	6.05	128.31	120.44
1	3a	12	HIS	N-CA-C	6.05	118.78	110.24
1	3b	190	LEU	CA-C-N	6.05	129.02	120.42
1	3b	190	LEU	C-N-CA	6.05	129.02	120.42
1	3P	214	MET	O-C-N	-6.05	115.70	122.12
1	3U	155	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	3U	165	VAL	CA-C-O	-6.05	114.97	121.27
1	3V	78	ALA	CA-C-N	6.05	128.89	120.29
1	3V	78	ALA	C-N-CA	6.05	128.89	120.29
1	41	87	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	43	72	THR	N-CA-CB	6.05	118.79	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4u	131	LYS	CA-C-N	6.05	128.68	120.38
1	4u	131	LYS	C-N-CA	6.05	128.68	120.38
1	4v	17	PRO	CA-C-N	6.05	128.39	120.28
1	4v	17	PRO	C-N-CA	6.05	128.39	120.28
1	4N	131	LYS	O-C-N	-6.05	115.70	122.12
1	4V	27	VAL	CA-C-N	6.05	128.39	120.28
1	4V	27	VAL	C-N-CA	6.05	128.39	120.28
1	50	69	LEU	N-CA-C	6.05	117.55	111.07
1	55	18	ARG	CA-C-O	6.05	126.97	120.55
1	55	124	ILE	O-C-N	-6.05	117.25	121.55
1	5r	202	LEU	N-CA-C	6.05	118.38	111.11
1	5u	13	GLN	CG-CD-NE2	-6.05	107.32	116.40
1	5D	52	LEU	CA-C-N	6.05	128.31	120.44
1	5D	52	LEU	C-N-CA	6.05	128.31	120.44
1	5N	80	TRP	CB-CG-CD1	6.05	135.98	126.90
1	5W	67	GLN	N-CA-C	6.05	117.96	111.36
1	6e	80	TRP	CG-CD2-CE3	-6.05	127.84	133.90
1	6o	20	LEU	CA-C-N	6.05	128.39	120.28
1	6o	20	LEU	C-N-CA	6.05	128.39	120.28
1	6p	99	PRO	O-C-N	-6.05	115.46	122.85
1	6u	119	THR	CA-CB-OG1	6.05	118.68	109.60
1	6N	100	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	7n	138	LEU	N-CA-CB	6.05	119.02	110.12
1	7z	182	LYS	CA-C-N	6.05	128.31	120.44
1	7z	182	LYS	C-N-CA	6.05	128.31	120.44
1	7A	154	ARG	NH1-CZ-NH2	-6.05	111.43	119.30
1	8R	9	GLN	CA-C-N	6.05	131.01	121.56
1	8R	9	GLN	C-N-CA	6.05	131.01	121.56
1	9C	27	VAL	N-CA-C	6.05	116.72	110.36
1	9C	39	MET	CA-C-N	6.05	128.31	120.44
1	9C	39	MET	C-N-CA	6.05	128.31	120.44
1	a1	144	MET	N-CA-CB	6.05	118.79	110.01
1	a9	55	MET	CA-C-N	6.05	128.31	120.44
1	a9	55	MET	C-N-CA	6.05	128.31	120.44
1	a9	208	ALA	N-CA-C	6.05	119.53	111.30
1	ap	86	VAL	CA-C-O	6.05	128.02	121.36
1	aD	78	ALA	O-C-N	-6.05	115.70	122.12
1	aD	173	ARG	O-C-N	-6.05	114.52	122.39
1	b7	46	GLY	CA-C-N	6.05	129.98	121.02
1	b7	46	GLY	C-N-CA	6.05	129.98	121.02
1	ba	200	THR	N-CA-C	6.05	117.88	111.28
1	bc	139	ASN	N-CA-C	6.05	117.88	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bk	10	MET	N-CA-C	-6.05	105.19	112.58
1	bz	112	GLN	OE1-CD-NE2	6.05	128.66	122.60
1	bE	32	PHE	N-CA-C	6.05	119.14	110.24
1	bE	177	ALA	O-C-N	-6.05	116.33	123.11
1	bK	176	GLN	N-CA-CB	-6.05	101.47	110.61
1	bL	194	ALA	N-CA-C	6.05	118.11	110.24
1	bT	154	ARG	CA-C-N	6.05	132.28	122.29
1	bT	154	ARG	C-N-CA	6.05	132.28	122.29
1	cw	143	ARG	CA-C-O	-6.05	114.13	120.55
1	cN	64	ALA	CA-C-N	6.05	128.39	120.28
1	cN	64	ALA	C-N-CA	6.05	128.39	120.28
1	cZ	64	ALA	CA-C-N	6.05	128.39	120.28
1	cZ	64	ALA	C-N-CA	6.05	128.39	120.28
1	d1	110	THR	CA-C-O	-6.05	114.27	121.66
1	d2	43	LEU	N-CA-CB	-6.05	100.53	110.40
1	d4	152	ASP	CA-CB-CG	-6.05	106.55	112.60
1	d7	102	SER	CA-C-N	6.05	128.39	120.28
1	d7	102	SER	C-N-CA	6.05	128.39	120.28
1	de	153	ILE	N-CA-CB	-6.05	104.13	111.21
1	dA	62	HIS	ND1-CG-CD2	6.05	112.15	106.10
1	dF	100	ARG	CA-C-N	6.05	127.76	120.13
1	dF	100	ARG	C-N-CA	6.05	127.76	120.13
1	dF	148	THR	N-CA-C	-6.05	101.52	110.48
1	eh	143	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	eq	32	PHE	CA-C-N	6.05	130.79	122.07
1	eq	32	PHE	C-N-CA	6.05	130.79	122.07
1	eq	114	GLN	CA-C-O	6.05	127.18	120.82
1	ey	81	ASP	CA-CB-CG	-6.05	106.55	112.60
1	eK	31	ALA	N-CA-C	6.05	118.84	111.82
1	eS	205	LEU	CA-C-N	6.05	131.37	121.87
1	eS	205	LEU	C-N-CA	6.05	131.37	121.87
1	f8	12	HIS	CA-CB-CG	6.05	119.86	113.80
1	fj	152	ASP	O-C-N	-6.05	114.62	122.37
1	fI	146	SER	N-CA-C	6.05	118.24	109.04
1	fK	177	ALA	N-CA-C	6.05	123.70	110.80
1	h	26	VAL	N-CA-C	6.05	116.22	110.53
1	o	182	LYS	CA-C-N	6.05	128.89	120.29
1	o	182	LYS	C-N-CA	6.05	128.89	120.29
1	F	183	ASN	CA-C-N	6.05	128.39	120.28
1	F	183	ASN	C-N-CA	6.05	128.39	120.28
1	S	169	TYR	O-C-N	-6.05	115.70	122.12
1	5	166	ASP	CA-C-N	6.05	128.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	166	ASP	C-N-CA	6.05	128.39	120.28
1	gS	36	VAL	CA-CB-CG2	6.05	120.69	110.40
1	gW	202	LEU	O-C-N	-6.05	114.83	122.27
1	h3	180	GLU	CA-C-N	6.05	128.19	120.56
1	h3	180	GLU	C-N-CA	6.05	128.19	120.56
1	hd	97	ARG	O-C-N	-6.05	115.95	122.85
1	hr	54	THR	CA-C-N	6.05	128.31	120.44
1	hr	54	THR	C-N-CA	6.05	128.31	120.44
1	jA	115	ILE	N-CA-CB	6.05	118.77	110.54
1	jJ	20	LEU	N-CA-C	6.05	117.96	111.36
1	jP	152	ASP	O-C-N	-6.05	114.02	122.37
1	ka	37	ILE	CA-C-N	6.05	125.77	119.05
1	ka	37	ILE	C-N-CA	6.05	125.77	119.05
1	ku	85	PRO	CA-C-N	6.05	128.76	120.35
1	ku	85	PRO	C-N-CA	6.05	128.76	120.35
1	kU	143	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	25	22	ALA	N-CA-C	6.05	117.96	111.36
1	l2	62	HIS	N-CA-C	6.05	119.77	111.54
1	29	12	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	2r	116	GLY	CA-C-N	6.05	129.00	120.28
1	2r	116	GLY	C-N-CA	6.05	129.00	120.28
1	2t	69	LEU	CA-C-N	6.05	128.39	120.28
1	2t	69	LEU	C-N-CA	6.05	128.39	120.28
1	2D	129	ILE	CA-C-N	6.05	128.31	120.44
1	2D	129	ILE	C-N-CA	6.05	128.31	120.44
1	30	115	ILE	N-CA-C	6.05	116.23	110.42
1	3g	137	GLY	N-CA-C	6.05	119.52	112.50
1	3n	185	MET	N-CA-C	6.05	118.37	111.11
1	3L	90	PRO	CB-CA-C	-6.05	101.57	111.56
1	3O	170	LYS	CA-C-O	-6.05	114.13	120.55
1	49	110	THR	O-C-N	-6.05	115.60	122.68
1	4K	62	HIS	ND1-CG-CD2	6.05	112.15	106.10
1	5f	103	ASP	CA-CB-CG	6.05	118.65	112.60
1	5k	182	LYS	CA-C-O	6.05	127.18	120.82
1	5r	122	PRO	CA-C-N	6.05	125.96	119.85
1	5r	122	PRO	C-N-CA	6.05	125.96	119.85
1	5V	106	GLY	CA-C-N	6.05	128.31	120.44
1	5V	106	GLY	C-N-CA	6.05	128.31	120.44
1	5X	202	LEU	N-CA-C	6.05	117.88	111.28
1	60	193	ASN	CA-C-N	6.05	131.99	120.97
1	60	193	ASN	C-N-CA	6.05	131.99	120.97
1	6b	199	LYS	N-CA-C	6.05	118.40	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6H	110	THR	CA-CB-OG1	6.05	118.68	109.60
1	7x	179	GLN	CA-C-N	6.05	128.67	120.44
1	7x	179	GLN	C-N-CA	6.05	128.67	120.44
1	7V	45	GLU	N-CA-CB	6.05	119.70	110.44
1	84	157	PRO	N-CA-C	6.05	121.50	113.57
1	8c	120	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	8P	133	TRP	N-CA-C	6.05	117.55	111.07
1	9n	107	THR	N-CA-CB	6.05	119.62	110.30
1	9B	113	GLU	CB-CG-CD	6.05	122.89	112.60
1	aU	47	ALA	N-CA-C	6.05	119.03	110.50
1	16	84	HIS	CA-C-N	6.05	127.41	119.84
1	16	84	HIS	C-N-CA	6.05	127.41	119.84
1	ba	48	THR	CA-C-N	6.05	125.77	119.05
1	ba	48	THR	C-N-CA	6.05	125.77	119.05
1	be	159	GLU	CA-C-N	6.05	126.06	119.89
1	be	159	GLU	C-N-CA	6.05	126.06	119.89
1	c2	113	GLU	CA-C-N	6.05	128.31	120.44
1	c2	113	GLU	C-N-CA	6.05	128.31	120.44
1	cz	62	HIS	CA-C-N	6.05	128.39	120.28
1	cz	62	HIS	C-N-CA	6.05	128.39	120.28
1	cz	213	GLU	CA-C-N	6.05	128.39	120.28
1	cz	213	GLU	C-N-CA	6.05	128.39	120.28
1	cB	142	VAL	CA-C-N	6.05	128.31	120.44
1	cB	142	VAL	C-N-CA	6.05	128.31	120.44
1	cC	43	LEU	CA-C-N	6.05	132.48	122.73
1	cC	43	LEU	C-N-CA	6.05	132.48	122.73
1	1i	207	PRO	CA-C-N	6.05	129.51	120.31
1	1i	207	PRO	C-N-CA	6.05	129.51	120.31
1	dz	7	GLN	CA-C-O	6.05	126.66	120.24
1	ff	7	GLN	CG-CD-OE1	6.05	132.91	120.80
1	H	104	ILE	N-CA-C	6.05	116.79	110.62
1	T	166	ASP	O-C-N	-6.05	115.83	122.07
1	U	195	ASN	CA-CB-CG	-6.05	106.55	112.60
1	X	34	PRO	CA-C-N	6.05	129.51	120.31
1	X	34	PRO	C-N-CA	6.05	129.51	120.31
1	g9	2	ILE	N-CA-C	-6.05	99.41	108.12
1	gm	218	CYS	CA-C-N	6.05	128.39	120.28
1	gm	218	CYS	C-N-CA	6.05	128.39	120.28
1	gs	197	ASP	CA-CB-CG	6.05	118.65	112.60
1	gF	6	LEU	O-C-N	-6.05	115.81	121.56
1	gG	163	ASP	CA-CB-CG	6.05	118.65	112.60
1	hE	10	MET	CA-C-O	6.05	127.00	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hI	203	LYS	CA-C-N	6.05	128.88	120.29
1	hI	203	LYS	C-N-CA	6.05	128.88	120.29
1	1M	98	GLU	CA-C-N	6.05	126.37	119.83
1	1M	98	GLU	C-N-CA	6.05	126.37	119.83
1	i6	33	SER	CA-C-N	6.05	125.73	119.56
1	i6	33	SER	C-N-CA	6.05	125.73	119.56
1	ic	215	MET	N-CA-C	6.05	118.67	111.71
1	ie	181	VAL	CG1-CB-CG2	6.05	124.11	110.80
1	is	193	ASN	N-CA-C	-6.05	105.48	112.92
1	1R	20	LEU	CA-C-N	6.05	128.67	120.44
1	1R	20	LEU	C-N-CA	6.05	128.67	120.44
1	1S	153	ILE	O-C-N	-6.05	115.15	122.59
1	jr	186	THR	O-C-N	-6.05	114.83	122.27
1	jD	162	ARG	N-CA-C	6.05	118.65	111.33
1	jF	144	MET	CG-SD-CE	-6.05	87.59	100.90
1	jS	5	ASN	CA-CB-CG	6.05	118.65	112.60
1	jT	33	SER	N-CA-C	-6.05	99.72	109.58
1	1Z	149	SER	N-CA-C	6.05	119.33	109.59
1	k3	175	GLU	CA-C-O	6.05	126.66	120.24
1	k4	173	ARG	NH1-CZ-NH2	-6.05	111.43	119.30
1	k6	229	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	kb	152	ASP	CA-C-O	6.05	126.64	119.56
1	kC	53	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	kD	25	LYS	N-CA-CB	6.05	118.78	110.01
1	kJ	187	GLU	CA-C-O	6.05	127.03	120.55
1	kS	50	GLN	O-C-N	-6.05	115.70	122.12
1	l6	189	LEU	O-C-N	-6.05	114.25	122.36
1	26	48	THR	N-CA-CB	6.05	118.13	109.78
1	lg	170	LYS	CA-C-N	6.05	128.31	120.44
1	lg	170	LYS	C-N-CA	6.05	128.31	120.44
1	27	45	GLU	CA-C-O	6.05	126.96	120.55
1	lq	6	LEU	O-C-N	-6.05	114.83	122.27
1	lE	97	ARG	CA-C-O	-6.05	114.53	121.19
1	lK	111	LEU	CA-C-O	6.05	126.96	120.55
1	2t	33	SER	O-C-N	-6.05	116.18	121.32
1	2S	87	HIS	CA-C-O	6.05	127.21	120.43
1	3K	25	LYS	O-C-N	-6.05	115.71	122.12
1	3L	181	VAL	CB-CA-C	-6.05	103.97	112.14
1	41	55	MET	N-CA-C	6.05	118.37	111.11
1	42	91	ILE	CA-CB-CG2	-6.05	100.21	110.50
1	4k	181	VAL	CB-CA-C	-6.05	103.97	112.14
1	4s	161	PHE	CB-CG-CD1	6.05	130.99	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	24	VAL	CA-C-O	6.05	127.24	120.95
1	4A	57	ASN	N-CA-CB	-6.05	100.54	110.40
1	4O	229	ARG	CD-NE-CZ	6.05	132.87	124.40
1	4X	176	GLN	CA-C-N	6.05	129.30	120.71
1	4X	176	GLN	C-N-CA	6.05	129.30	120.71
1	5t	126	VAL	CA-C-N	6.05	127.91	120.22
1	5t	126	VAL	C-N-CA	6.05	127.91	120.22
1	66	168	PHE	CA-CB-CG	6.05	119.85	113.80
1	6h	117	TRP	N-CA-CB	-6.05	101.23	110.12
1	6v	110	THR	CA-CB-CG2	6.05	120.79	110.50
1	6D	180	GLU	CA-C-N	6.05	129.01	120.42
1	6D	180	GLU	C-N-CA	6.05	129.01	120.42
1	6F	84	HIS	CA-C-N	6.05	126.07	119.90
1	6F	84	HIS	C-N-CA	6.05	126.07	119.90
1	6I	3	VAL	O-C-N	-6.05	116.10	123.00
1	6I	67	GLN	O-C-N	-6.05	115.70	122.12
1	7t	74	ASN	CA-C-N	6.05	128.31	120.44
1	7t	74	ASN	C-N-CA	6.05	128.31	120.44
1	7F	15	ILE	N-CA-CB	6.05	117.45	110.49
1	7F	18	ARG	CA-C-N	6.05	128.71	120.54
1	7F	18	ARG	C-N-CA	6.05	128.71	120.54
1	7H	132	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	7P	22	ALA	CA-C-N	6.05	130.81	121.19
1	7P	22	ALA	C-N-CA	6.05	130.81	121.19
1	7X	163	ASP	CA-C-N	6.05	128.31	120.44
1	7X	163	ASP	C-N-CA	6.05	128.31	120.44
1	8g	171	THR	N-CA-C	6.05	117.88	111.28
1	8g	201	ILE	CA-CB-CG2	-6.05	100.21	110.50
1	8m	121	ASN	OD1-CG-ND2	6.05	128.65	122.60
1	8y	155	GLN	N-CA-C	6.05	118.27	107.80
1	8z	167	ARG	CA-C-N	6.05	128.31	120.44
1	8z	167	ARG	C-N-CA	6.05	128.31	120.44
1	8M	64	ALA	CA-C-N	6.05	128.39	120.28
1	8M	64	ALA	C-N-CA	6.05	128.39	120.28
1	8U	92	GLU	CA-C-N	6.05	127.41	119.84
1	8U	92	GLU	C-N-CA	6.05	127.41	119.84
1	92	37	ILE	N-CA-CB	6.05	115.17	110.45
1	9h	30	LYS	CA-C-N	6.05	129.22	120.38
1	9h	30	LYS	C-N-CA	6.05	129.22	120.38
1	9j	25	LYS	CA-C-N	6.05	128.19	120.56
1	9j	25	LYS	C-N-CA	6.05	128.19	120.56
1	9s	230	VAL	N-CA-CB	6.05	117.75	110.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	32	PHE	CA-C-O	6.05	127.06	120.58
1	9v	27	VAL	CA-C-N	6.05	128.31	120.44
1	9v	27	VAL	C-N-CA	6.05	128.31	120.44
1	9x	47	ALA	CA-C-O	6.05	127.94	121.16
1	9z	71	GLU	N-CA-CB	-6.05	100.90	110.28
1	9E	107	THR	CA-CB-CG2	6.05	120.79	110.50
1	a3	65	ALA	CA-C-N	6.05	128.71	120.54
1	a3	65	ALA	C-N-CA	6.05	128.71	120.54
1	ao	125	PRO	N-CA-CB	-6.05	97.64	102.36
1	aD	107	THR	N-CA-CB	6.05	118.79	110.01
1	aE	180	GLU	N-CA-CB	6.05	119.02	110.12
1	aL	151	LEU	CA-C-N	6.05	128.39	120.28
1	aL	151	LEU	C-N-CA	6.05	128.39	120.28
1	ba	162	ARG	NH1-CZ-NH2	-6.05	111.43	119.30
1	17	187	GLU	CA-C-N	6.05	129.64	122.44
1	17	187	GLU	C-N-CA	6.05	129.64	122.44
1	bi	166	ASP	N-CA-CB	-6.05	101.23	110.01
1	bm	72	THR	N-CA-C	-6.05	104.77	111.36
1	by	130	TYR	N-CA-CB	-6.05	101.20	110.16
1	bA	19	THR	CA-C-O	6.05	125.44	118.97
1	bE	144	MET	CA-C-N	6.05	128.67	120.44
1	bE	144	MET	C-N-CA	6.05	128.67	120.44
1	bN	37	ILE	N-CA-C	6.05	119.61	112.35
1	bV	23	TRP	O-C-N	-6.05	115.80	122.09
1	1b	64	ALA	CA-C-O	6.05	126.96	120.55
1	bZ	40	PHE	N-CA-C	6.05	117.88	111.28
1	c5	25	LYS	N-CA-C	6.05	118.84	111.82
1	cl	25	LYS	N-CA-C	6.05	118.84	111.82
1	cq	53	ASN	CA-C-N	6.05	128.31	120.44
1	cq	53	ASN	C-N-CA	6.05	128.31	120.44
1	cq	162	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	cr	74	ASN	O-C-N	-6.05	115.70	122.12
1	cN	204	ALA	CA-C-N	6.05	128.39	120.28
1	cN	204	ALA	C-N-CA	6.05	128.39	120.28
1	1i	106	GLY	CA-C-N	6.05	128.31	120.44
1	1i	106	GLY	C-N-CA	6.05	128.31	120.44
1	d4	57	ASN	CA-C-N	6.05	129.22	120.38
1	d4	57	ASN	C-N-CA	6.05	129.22	120.38
1	da	226	HIS	CA-C-O	-6.05	114.00	120.42
1	dd	173	ARG	NE-CZ-NH2	6.05	124.65	119.20
1	dr	141	ILE	CA-CB-CG1	6.05	120.69	110.40
1	dv	72	THR	N-CA-C	6.05	117.54	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dL	77	ALA	CA-C-N	6.05	128.88	120.29
1	dL	77	ALA	C-N-CA	6.05	128.88	120.29
1	dM	193	ASN	N-CA-CB	6.05	119.39	110.56
1	dN	83	LEU	O-C-N	-6.05	115.84	122.07
1	dN	124	ILE	CB-CA-C	6.05	117.97	110.95
1	dO	114	GLN	N-CA-C	6.05	117.55	111.07
1	dW	26	VAL	CB-CA-C	6.05	119.72	111.97
1	e6	210	THR	CA-CB-OG1	6.05	118.68	109.60
1	e7	12	HIS	CB-CG-ND1	6.05	131.78	122.70
1	1p	223	GLY	CA-C-N	6.05	126.16	119.87
1	1p	223	GLY	C-N-CA	6.05	126.16	119.87
1	ec	158	LYS	CA-C-O	6.05	125.63	118.79
1	ee	195	ASN	N-CA-C	6.05	123.18	109.81
1	eA	25	LYS	N-CA-C	6.05	118.67	111.71
1	eY	21	ASN	CA-CB-CG	-6.05	106.55	112.60
1	fm	50	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	1x	226	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	p	37	ILE	O-C-N	-6.05	116.55	120.42
1	F	155	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	P	13	GLN	CA-C-N	6.05	129.46	120.87
1	P	13	GLN	C-N-CA	6.05	129.46	120.87
1	S	163	ASP	CA-C-N	6.05	128.39	120.28
1	S	163	ASP	C-N-CA	6.05	128.39	120.28
1	T	87	HIS	CB-CA-C	-6.05	100.92	110.79
1	6	60	GLY	CA-C-N	6.05	127.04	120.44
1	6	60	GLY	C-N-CA	6.05	127.04	120.44
1	7	57	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	1C	152	ASP	CA-CB-CG	-6.05	106.55	112.60
1	gr	49	PRO	CA-C-N	6.05	128.71	120.54
1	gr	49	PRO	C-N-CA	6.05	128.71	120.54
1	gt	203	LYS	CA-C-O	-6.05	114.47	120.82
1	gD	230	VAL	CA-C-O	-6.05	115.53	121.58
1	gJ	178	SER	N-CA-C	6.05	119.23	110.28
1	1F	200	THR	CA-C-N	6.05	129.06	120.53
1	1F	200	THR	C-N-CA	6.05	129.06	120.53
1	h4	130	TYR	CA-CB-CG	6.05	124.79	113.90
1	hg	177	ALA	N-CA-C	6.05	118.77	110.24
1	hH	50	GLN	CB-CG-CD	6.05	122.88	112.60
1	1L	133	TRP	CA-C-O	6.05	126.83	120.42
1	hN	193	ASN	OD1-CG-ND2	6.05	128.65	122.60
1	1M	167	ARG	N-CA-C	6.05	117.87	111.28
1	hU	20	LEU	N-CA-C	6.05	117.95	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hX	123	PRO	CA-C-O	-6.05	114.54	121.56
1	iq	176	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	iK	87	HIS	CA-CB-CG	-6.05	107.75	113.80
1	iP	7	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	iP	84	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	1S	70	LYS	CA-C-N	6.05	128.39	120.28
1	1S	70	LYS	C-N-CA	6.05	128.39	120.28
1	iS	52	LEU	N-CA-C	6.05	117.87	111.28
1	j4	132	ARG	NE-CZ-NH2	6.05	124.64	119.20
1	j5	78	ALA	CA-C-N	6.05	128.88	120.29
1	j5	78	ALA	C-N-CA	6.05	128.88	120.29
1	j7	98	GLU	N-CA-C	6.05	117.32	109.64
1	jk	181	VAL	CG1-CB-CG2	-6.05	97.49	110.80
1	jr	148	THR	CA-C-N	6.05	129.88	120.75
1	jr	148	THR	C-N-CA	6.05	129.88	120.75
1	ju	20	LEU	CA-C-N	6.05	128.71	120.54
1	ju	20	LEU	C-N-CA	6.05	128.71	120.54
1	jv	78	ALA	CB-CA-C	-6.05	100.75	110.79
1	jM	66	MET	N-CA-C	-6.05	104.69	111.28
1	jP	79	GLU	N-CA-C	6.05	117.54	111.07
1	1Y	57	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	k4	181	VAL	O-C-N	6.05	128.06	121.83
1	kv	204	ALA	N-CA-C	6.05	118.78	111.40
1	kH	73	ILE	CB-CA-C	-6.05	103.87	112.22
1	kK	92	GLU	CA-C-N	6.05	127.40	119.84
1	kK	92	GLU	C-N-CA	6.05	127.40	119.84
1	kU	164	TYR	CA-C-O	6.05	127.17	120.82
1	lo	67	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	lo	94	GLY	O-C-N	6.05	130.56	122.70
1	lv	138	LEU	CA-C-N	6.05	128.39	120.28
1	lv	138	LEU	C-N-CA	6.05	128.39	120.28
1	2a	183	ASN	CA-C-N	6.05	128.39	120.28
1	2a	183	ASN	C-N-CA	6.05	128.39	120.28
1	2u	50	GLN	N-CA-C	-6.05	104.60	111.07
1	2C	44	SER	N-CA-C	6.05	120.35	113.15
1	2O	144	MET	N-CA-C	6.05	118.37	111.11
1	2T	172	LEU	CA-C-N	6.05	128.39	120.28
1	2T	172	LEU	C-N-CA	6.05	128.39	120.28
1	3o	21	ASN	CA-CB-CG	6.05	118.65	112.60
1	3S	102	SER	CA-C-N	6.05	130.93	120.58
1	3S	102	SER	C-N-CA	6.05	130.93	120.58
1	3Y	22	ALA	CA-C-N	6.05	128.31	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Y	22	ALA	C-N-CA	6.05	128.31	120.44
1	4a	169	TYR	N-CA-C	6.05	117.87	111.28
1	4g	29	GLU	O-C-N	-6.05	115.25	122.15
1	4i	201	ILE	CA-C-O	6.05	128.34	120.78
1	4s	12	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	4C	81	ASP	CA-C-N	6.05	128.31	120.44
1	4C	81	ASP	C-N-CA	6.05	128.31	120.44
1	5w	140	LYS	N-CA-C	6.05	118.65	111.33
1	5x	115	ILE	N-CA-C	6.05	118.61	111.05
1	5A	135	ILE	N-CA-CB	6.05	118.03	110.47
1	5A	195	ASN	CA-C-O	-6.05	114.11	120.88
1	5F	143	ARG	N-CA-CB	6.05	119.01	110.12
1	5J	192	GLN	N-CA-C	6.05	117.87	111.28
1	5V	84	HIS	CA-C-N	6.05	127.40	119.84
1	5V	84	HIS	C-N-CA	6.05	127.40	119.84
1	5X	135	ILE	CA-C-O	6.05	127.00	120.47
1	67	219	GLN	CG-CD-NE2	-6.05	107.32	116.40
1	6t	73	ILE	CA-C-N	6.05	128.39	120.28
1	6t	73	ILE	C-N-CA	6.05	128.39	120.28
1	6w	12	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	7n	131	LYS	O-C-N	-6.05	115.71	122.12
1	7t	212	GLU	O-C-N	6.05	128.53	122.12
1	7w	104	ILE	N-CA-CB	6.05	118.77	110.54
1	7O	202	LEU	O-C-N	-6.05	115.71	122.12
1	7U	171	THR	N-CA-CB	6.05	118.84	110.07
1	83	65	ALA	CA-C-N	6.05	128.67	120.44
1	83	65	ALA	C-N-CA	6.05	128.67	120.44
1	88	169	TYR	CA-C-O	-6.05	113.01	119.97
1	89	95	GLN	N-CA-C	6.05	117.43	108.60
1	8m	3	VAL	CA-C-N	6.05	129.30	120.71
1	8m	3	VAL	C-N-CA	6.05	129.30	120.71
1	8u	91	ILE	N-CA-C	6.05	121.92	109.34
1	8u	121	ASN	CA-C-O	-6.05	114.05	119.86
1	8R	76	GLU	CA-C-O	-6.05	114.14	120.55
1	8W	215	MET	N-CA-C	6.05	120.66	113.28
1	99	122	PRO	N-CA-CB	6.05	109.25	102.60
1	9a	214	MET	N-CA-C	6.05	118.67	111.71
1	9g	123	PRO	CA-C-O	-6.05	113.84	120.92
1	9v	214	MET	CA-C-N	6.05	128.31	120.44
1	9v	214	MET	C-N-CA	6.05	128.31	120.44
1	9U	97	ARG	NE-CZ-NH2	-6.05	113.76	119.20
1	ab	25	LYS	N-CA-C	6.05	119.49	111.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	71	GLU	N-CA-C	6.05	118.65	111.33
1	at	119	THR	OG1-CB-CG2	-6.05	97.20	109.30
1	az	14	ALA	CB-CA-C	-6.05	98.33	109.46
1	aF	151	LEU	CA-C-O	6.05	126.81	119.31
1	aH	23	TRP	O-C-N	-6.05	115.71	122.12
1	aK	119	THR	CA-C-N	6.05	129.46	120.87
1	aK	119	THR	C-N-CA	6.05	129.46	120.87
1	aT	27	VAL	O-C-N	-6.05	115.96	121.89
1	aU	145	TYR	CB-CG-CD2	-6.05	111.73	120.80
1	b5	82	ARG	NH1-CZ-NH2	-6.05	111.44	119.30
1	bo	11	VAL	O-C-N	-6.05	116.05	122.95
1	bu	124	ILE	N-CA-C	-6.05	101.13	107.60
1	bx	17	PRO	CA-C-O	-6.05	110.35	119.55
1	bx	96	MET	CA-C-N	6.05	133.09	121.54
1	bx	96	MET	C-N-CA	6.05	133.09	121.54
1	bV	70	LYS	N-CA-C	6.05	117.87	111.28
1	cd	97	ARG	CA-CB-CG	6.05	126.20	114.10
1	cf	103	ASP	CA-CB-CG	6.05	118.65	112.60
1	ci	169	TYR	CA-C-O	6.05	126.93	119.97
1	cq	210	THR	N-CA-CB	6.05	119.01	110.36
1	cr	181	VAL	CA-C-N	6.05	128.71	120.54
1	cr	181	VAL	C-N-CA	6.05	128.71	120.54
1	cN	216	THR	N-CA-CB	6.05	119.55	110.53
1	cS	86	VAL	N-CA-C	6.05	121.92	109.34
1	cU	129	ILE	N-CA-C	6.05	116.79	110.62
1	d9	78	ALA	CA-C-N	6.05	128.39	120.28
1	d9	78	ALA	C-N-CA	6.05	128.39	120.28
1	dQ	38	PRO	CA-C-N	6.05	128.71	120.54
1	dQ	38	PRO	C-N-CA	6.05	128.71	120.54
1	dY	172	LEU	CD1-CG-CD2	-6.05	97.49	110.80
1	e2	16	SER	CA-C-N	6.05	125.60	119.19
1	e2	16	SER	C-N-CA	6.05	125.60	119.19
1	e5	210	THR	CA-CB-OG1	6.05	118.67	109.60
1	ef	77	ALA	CA-C-O	-6.05	114.14	120.55
1	1q	166	ASP	CA-CB-CG	6.05	118.65	112.60
1	ez	89	GLY	O-C-N	-6.05	115.72	121.77
1	eM	193	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	1t	115	ILE	O-C-N	-6.05	116.00	121.87
1	eS	72	THR	CA-CB-CG2	6.05	120.78	110.50
1	f2	67	GLN	CA-C-N	6.05	128.39	120.28
1	f2	67	GLN	C-N-CA	6.05	128.39	120.28
1	fe	162	ARG	NH1-CZ-NH2	-6.05	111.44	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fr	34	PRO	CA-C-N	6.05	128.88	120.29
1	fr	34	PRO	C-N-CA	6.05	128.88	120.29
1	fH	79	GLU	N-CA-C	6.05	117.87	111.28
1	c	160	PRO	N-CA-C	6.05	120.72	111.34
1	T	159	GLU	CB-CA-C	-6.05	102.95	109.85
1	8	69	LEU	CB-CA-C	6.05	120.38	110.88
1	h2	152	ASP	N-CA-C	6.05	120.66	113.16
1	hO	195	ASN	CA-C-N	6.05	127.40	119.84
1	hO	195	ASN	C-N-CA	6.05	127.40	119.84
1	iz	120	HIS	CG-CD2-NE2	6.05	113.25	107.20
1	iY	113	GLU	N-CA-C	6.05	118.67	111.71
1	kf	105	ALA	O-C-N	-6.05	114.02	122.37
1	ku	124	ILE	N-CA-CB	-6.05	103.36	111.40
1	ls	189	LEU	N-CA-C	-6.05	104.25	111.69
1	lM	68	MET	N-CA-C	6.05	117.87	111.28
1	lR	162	ARG	NE-CZ-NH1	6.05	127.55	121.50
1	2b	56	LEU	O-C-N	-6.05	115.71	122.12
1	2b	176	GLN	CB-CA-C	6.05	119.57	109.89
1	2z	17	PRO	N-CA-C	-6.05	106.11	114.27
1	3l	161	PHE	CA-C-N	6.05	128.38	120.28
1	3l	161	PHE	C-N-CA	6.05	128.38	120.28
1	3D	194	ALA	N-CA-C	6.05	117.85	110.41
1	3M	12	HIS	CG-CD2-NE2	6.05	113.25	107.20
1	4t	108	THR	N-CA-CB	6.05	119.54	110.65
1	4B	170	LYS	CA-C-O	6.05	126.83	120.42
1	4Z	127	GLY	O-C-N	-6.05	116.32	122.19
1	64	87	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	68	97	ARG	NE-CZ-NH2	-6.05	113.76	119.20
1	6p	195	ASN	CA-C-N	6.05	127.40	119.84
1	6p	195	ASN	C-N-CA	6.05	127.40	119.84
1	6s	162	ARG	NE-CZ-NH2	-6.05	113.76	119.20
1	7n	181	VAL	CA-C-N	6.05	128.38	120.28
1	7n	181	VAL	C-N-CA	6.05	128.38	120.28
1	7o	182	LYS	N-CA-C	6.05	117.54	111.07
1	7x	109	SER	N-CA-C	6.05	119.33	109.59
1	7C	15	ILE	N-CA-C	6.05	117.22	109.30
1	7S	193	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	7U	201	ILE	CA-C-N	6.05	128.88	120.29
1	7U	201	ILE	C-N-CA	6.05	128.88	120.29
1	88	162	ARG	N-CA-C	6.05	117.87	111.28
1	8n	56	LEU	O-C-N	-6.05	115.84	122.07
1	8N	40	PHE	CA-C-N	6.05	128.71	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8N	40	PHE	C-N-CA	6.05	128.71	120.54
1	8W	156	GLY	O-C-N	-6.05	115.72	121.77
1	9k	179	GLN	CA-C-N	6.05	128.38	120.28
1	9k	179	GLN	C-N-CA	6.05	128.38	120.28
1	9r	53	ASN	CA-CB-CG	-6.05	106.55	112.60
1	9G	21	ASN	OD1-CG-ND2	-6.05	116.55	122.60
1	af	166	ASP	CA-C-N	6.05	128.38	120.28
1	af	166	ASP	C-N-CA	6.05	128.38	120.28
1	ah	161	PHE	O-C-N	-6.05	114.57	122.43
1	am	185	MET	N-CA-C	6.05	117.87	111.28
1	aV	39	MET	N-CA-CB	-6.05	101.23	110.12
1	bb	117	TRP	N-CA-C	6.05	118.65	111.33
1	bi	48	THR	N-CA-CB	6.05	118.13	109.78
1	cY	4	GLN	CA-CB-CG	-6.05	102.00	114.10
1	dc	217	ALA	CA-C-O	6.05	128.62	121.36
1	1n	187	GLU	N-CA-C	6.05	117.95	111.36
1	eA	70	LYS	O-C-N	-6.05	115.71	122.12
1	eG	14	ALA	CA-C-N	6.05	128.60	120.50
1	eG	14	ALA	C-N-CA	6.05	128.60	120.50
1	fG	68	MET	CA-C-N	6.05	128.30	120.44
1	fG	68	MET	C-N-CA	6.05	128.30	120.44
1	fW	13	GLN	O-C-N	-6.05	116.50	123.33
1	fY	4	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	v	173	ARG	CA-C-N	6.05	128.30	120.44
1	v	173	ARG	C-N-CA	6.05	128.30	120.44
1	J	18	ARG	NE-CZ-NH2	-6.05	113.76	119.20
1	gl	183	ASN	N-CA-CB	6.05	119.11	110.16
1	gp	174	ALA	CA-C-N	6.05	128.38	120.28
1	gp	174	ALA	C-N-CA	6.05	128.38	120.28
1	gu	24	VAL	N-CA-C	6.05	117.51	110.62
1	gD	142	VAL	O-C-N	-6.05	115.98	121.91
1	gJ	39	MET	CA-C-N	6.05	128.38	120.28
1	gJ	39	MET	C-N-CA	6.05	128.38	120.28
1	gS	56	LEU	CA-C-N	6.05	128.99	120.28
1	gS	56	LEU	C-N-CA	6.05	128.99	120.28
1	h6	177	ALA	O-C-N	-6.05	115.59	122.97
1	hl	53	ASN	CA-C-O	-6.05	114.14	120.55
1	ho	87	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	i2	197	ASP	CA-C-N	6.05	128.38	120.28
1	i2	197	ASP	C-N-CA	6.05	128.38	120.28
1	i7	162	ARG	CA-C-N	6.05	128.30	120.44
1	i7	162	ARG	C-N-CA	6.05	128.30	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iF	169	TYR	CA-CB-CG	-6.05	103.02	113.90
1	iI	96	MET	N-CA-C	6.05	118.51	110.53
1	iZ	125	PRO	CA-C-N	6.05	128.40	120.60
1	iZ	125	PRO	C-N-CA	6.05	128.40	120.60
1	jg	212	GLU	CA-CB-CG	6.05	126.19	114.10
1	jv	228	ALA	N-CA-CB	-6.05	103.58	110.35
1	jw	41	SER	CA-C-N	6.05	128.88	120.29
1	jw	41	SER	C-N-CA	6.05	128.88	120.29
1	jz	89	GLY	CA-C-N	6.05	127.40	119.84
1	jz	89	GLY	C-N-CA	6.05	127.40	119.84
1	jX	75	GLU	N-CA-C	6.05	117.95	111.36
1	20	170	LYS	CA-C-N	6.05	128.88	120.29
1	20	170	LYS	C-N-CA	6.05	128.88	120.29
1	ke	9	GLN	O-C-N	6.05	129.66	122.46
1	kf	69	LEU	O-C-N	-6.05	115.71	122.12
1	kC	120	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	kS	84	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	kW	120	HIS	CG-CD2-NE2	6.05	113.25	107.20
1	kY	112	GLN	OE1-CD-NE2	6.05	128.65	122.60
1	lw	156	GLY	CA-C-N	6.05	125.73	119.56
1	lw	156	GLY	C-N-CA	6.05	125.73	119.56
1	ly	155	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	lF	107	THR	N-CA-C	-6.05	105.81	113.43
1	lG	169	TYR	N-CA-C	6.05	117.87	111.28
1	lJ	139	ASN	O-C-N	-6.05	115.71	122.12
1	2b	51	ASP	CA-CB-CG	6.05	118.65	112.60
1	2u	77	ALA	N-CA-C	6.05	117.87	111.28
1	31	214	MET	CA-C-O	6.05	126.92	119.97
1	33	120	HIS	CA-CB-CG	6.05	119.85	113.80
1	3d	10	MET	N-CA-C	6.05	119.13	110.24
1	3w	223	GLY	O-C-N	-6.05	115.72	121.77
1	3x	18	ARG	NE-CZ-NH2	6.05	124.64	119.20
1	49	186	THR	OG1-CB-CG2	-6.05	97.21	109.30
1	4b	31	ALA	N-CA-C	6.05	117.50	108.31
1	4f	194	ALA	N-CA-C	6.05	119.11	110.10
1	4x	41	SER	O-C-N	-6.05	115.71	122.12
1	4K	70	LYS	N-CA-C	6.05	118.83	111.82
1	4M	92	GLU	N-CA-C	6.05	116.55	109.60
1	5m	55	MET	O-C-N	-6.05	115.71	122.12
1	5w	141	ILE	CA-C-N	6.05	128.74	120.46
1	5w	141	ILE	C-N-CA	6.05	128.74	120.46
1	5z	132	ARG	NE-CZ-NH1	-6.05	115.45	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	88	ALA	N-CA-C	6.05	118.57	110.35
1	5H	39	MET	N-CA-C	6.05	117.87	111.28
1	5Z	2	ILE	N-CA-CB	6.05	119.47	111.25
1	6z	65	ALA	CA-C-N	6.05	128.38	120.28
1	6z	65	ALA	C-N-CA	6.05	128.38	120.28
1	76	84	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
1	79	50	GLN	OE1-CD-NE2	-6.05	116.55	122.60
1	79	141	ILE	CA-C-N	6.05	128.18	120.56
1	79	141	ILE	C-N-CA	6.05	128.18	120.56
1	7h	70	LYS	CA-C-N	6.05	128.30	120.44
1	7h	70	LYS	C-N-CA	6.05	128.30	120.44
1	7j	89	GLY	O-C-N	-6.05	115.72	121.77
1	7o	138	LEU	O-C-N	-6.05	115.71	122.12
1	7s	176	GLN	CB-CA-C	-6.05	99.95	110.17
1	88	141	ILE	CA-C-N	6.05	128.69	120.77
1	88	141	ILE	C-N-CA	6.05	128.69	120.77
1	8x	170	LYS	O-C-N	-6.05	115.16	122.11
1	8U	62	HIS	CA-CB-CG	-6.05	107.75	113.80
1	9z	39	MET	N-CA-C	6.05	117.95	111.36
1	9W	21	ASN	N-CA-C	6.05	117.87	111.28
1	a5	162	ARG	NE-CZ-NH1	-6.05	115.45	121.50
1	a8	215	MET	N-CA-C	6.05	118.65	111.33
1	aD	80	TRP	CA-C-N	6.05	130.28	120.60
1	aD	80	TRP	C-N-CA	6.05	130.28	120.60
1	aE	205	LEU	N-CA-C	6.05	117.87	111.28
1	aY	181	VAL	CA-C-N	6.05	128.70	120.54
1	aY	181	VAL	C-N-CA	6.05	128.70	120.54
1	b6	121	ASN	CA-C-O	-6.05	114.87	119.59
1	bi	42	ALA	O-C-N	-6.05	114.83	122.27
1	bk	195	ASN	CA-CB-CG	6.05	118.65	112.60
1	bu	63	GLN	N-CA-CB	-6.05	100.35	110.39
1	bx	89	GLY	O-C-N	6.05	127.82	121.77
1	bC	223	GLY	CA-C-N	6.05	126.40	119.93
1	bC	223	GLY	C-N-CA	6.05	126.40	119.93
1	bQ	92	GLU	CB-CA-C	6.05	118.15	109.26
1	c2	6	LEU	CA-C-O	-6.05	114.14	120.55
1	c3	115	ILE	CA-C-N	6.05	133.26	121.41
1	c3	115	ILE	C-N-CA	6.05	133.26	121.41
1	ch	32	PHE	N-CA-C	-6.05	105.48	112.92
1	1e	222	GLY	O-C-N	-6.05	117.99	122.71
1	cU	136	LEU	O-C-N	-6.05	115.71	122.12
1	cV	63	GLN	CG-CD-NE2	6.05	125.47	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	204	ALA	CA-C-N	6.05	128.66	120.44
1	dc	204	ALA	C-N-CA	6.05	128.66	120.44
1	dh	164	TYR	CA-C-N	6.05	129.01	120.42
1	dh	164	TYR	C-N-CA	6.05	129.01	120.42
1	dw	39	MET	CG-SD-CE	-6.05	87.60	100.90
1	dC	59	VAL	CA-C-N	6.05	126.65	120.00
1	dC	59	VAL	C-N-CA	6.05	126.65	120.00
1	dG	197	ASP	N-CA-C	6.05	118.65	111.33
1	dV	227	LYS	CG-CD-CE	6.05	125.20	111.30
1	e8	172	LEU	CA-C-N	6.05	129.50	120.31
1	e8	172	LEU	C-N-CA	6.05	129.50	120.31
1	1q	121	ASN	CA-C-N	6.05	126.61	120.38
1	1q	121	ASN	C-N-CA	6.05	126.61	120.38
1	em	226	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	ev	207	PRO	O-C-N	6.05	130.96	122.55
1	eH	167	ARG	CA-C-N	6.05	128.30	120.44
1	eH	167	ARG	C-N-CA	6.05	128.30	120.44
1	eJ	56	LEU	CA-C-N	6.05	128.38	120.28
1	eJ	56	LEU	C-N-CA	6.05	128.38	120.28
1	eN	168	PHE	CA-C-N	6.05	128.88	120.29
1	eN	168	PHE	C-N-CA	6.05	128.88	120.29
1	f5	211	LEU	O-C-N	-6.05	115.84	122.07
1	fb	225	GLY	CA-C-N	6.05	128.70	120.54
1	fb	225	GLY	C-N-CA	6.05	128.70	120.54
1	fd	182	LYS	N-CA-C	6.05	117.87	111.28
1	fD	139	ASN	O-C-N	-6.05	115.15	122.22
1	fK	5	ASN	CA-CB-CG	-6.05	106.55	112.60
1	fS	112	GLN	CA-C-N	6.05	128.30	120.44
1	fS	112	GLN	C-N-CA	6.05	128.30	120.44
1	fZ	134	ILE	O-C-N	-6.05	116.00	121.87
1	1B	102	SER	CA-C-N	6.05	128.88	120.29
1	1B	102	SER	C-N-CA	6.05	128.88	120.29
1	a	22	ALA	CA-C-O	-6.05	114.14	120.55
1	a	92	GLU	N-CA-C	6.05	116.55	109.60
1	w	62	HIS	CB-CG-CD2	-6.05	123.34	131.20
1	z	136	LEU	O-C-N	-6.05	115.84	122.07
1	G	39	MET	CA-C-O	6.05	126.83	120.42
1	I	62	HIS	ND1-CE1-NE2	6.05	114.45	108.40
1	gy	117	TRP	N-CA-C	6.04	120.39	112.89
1	h0	4	GLN	N-CA-CB	6.04	120.75	111.56
1	hN	208	ALA	N-CA-C	-6.04	105.20	113.30
1	hP	69	LEU	CB-CA-C	6.04	120.37	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	217	ALA	CA-C-O	-6.04	114.97	121.56
1	j8	21	ASN	OD1-CG-ND2	-6.04	116.56	122.60
1	jA	25	LYS	N-CA-C	6.04	117.87	111.28
1	jP	25	LYS	CA-C-N	6.04	128.26	120.70
1	jP	25	LYS	C-N-CA	6.04	128.26	120.70
1	jT	22	ALA	N-CA-C	6.04	118.64	111.33
1	22	125	PRO	N-CA-CB	6.04	106.48	102.25
1	l4	213	GLU	CA-C-N	6.04	128.38	120.28
1	l4	213	GLU	C-N-CA	6.04	128.38	120.28
1	lf	19	THR	N-CA-C	6.04	117.87	111.28
1	lg	48	THR	N-CA-CB	6.04	117.41	109.55
1	lK	162	ARG	N-CA-CB	-6.04	100.59	110.14
1	2a	136	LEU	N-CA-C	6.04	118.66	111.71
1	lO	3	VAL	CA-C-N	6.04	129.45	120.87
1	lO	3	VAL	C-N-CA	6.04	129.45	120.87
1	lR	82	ARG	NE-CZ-NH1	6.04	127.55	121.50
1	2c	146	SER	CA-C-N	6.04	127.40	119.84
1	2c	146	SER	C-N-CA	6.04	127.40	119.84
1	35	127	GLY	CA-C-O	-6.04	110.05	120.57
1	39	5	ASN	N-CA-CB	6.04	118.95	109.94
1	3E	42	ALA	O-C-N	-6.04	115.26	122.15
1	3E	96	MET	CB-CA-C	6.04	119.50	109.53
1	3G	138	LEU	CA-C-N	6.04	128.70	120.54
1	3G	138	LEU	C-N-CA	6.04	128.70	120.54
1	4W	165	VAL	N-CA-CB	6.04	118.76	110.54
1	5b	149	SER	N-CA-C	6.04	118.57	110.35
1	5S	226	HIS	CG-CD2-NE2	6.04	113.25	107.20
1	66	6	LEU	N-CA-CB	6.04	120.71	110.49
1	6k	122	PRO	CA-C-N	6.04	126.06	119.89
1	6k	122	PRO	C-N-CA	6.04	126.06	119.89
1	6Z	37	ILE	N-CA-CB	-6.04	105.73	110.45
1	75	162	ARG	N-CA-C	6.04	118.66	111.71
1	7W	50	GLN	CA-C-N	6.04	128.87	120.29
1	7W	50	GLN	C-N-CA	6.04	128.87	120.29
1	7W	105	ALA	CA-C-O	6.04	126.85	119.11
1	8a	171	THR	CA-CB-OG1	6.04	118.67	109.60
1	9d	167	ARG	NE-CZ-NH1	6.04	127.55	121.50
1	9f	27	VAL	CA-C-O	-6.04	114.76	121.17
1	9i	92	GLU	N-CA-C	-6.04	98.44	108.23
1	9l	27	VAL	CB-CA-C	-6.04	103.98	112.14
1	9m	162	ARG	CA-C-N	6.04	128.30	120.44
1	9m	162	ARG	C-N-CA	6.04	128.30	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	152	ASP	N-CA-CB	-6.04	101.54	110.49
1	9S	15	ILE	CA-C-N	6.04	129.07	120.49
1	9S	15	ILE	C-N-CA	6.04	129.07	120.49
1	9V	108	THR	CA-C-O	6.04	125.44	118.55
1	a9	66	MET	N-CA-C	6.04	117.87	111.28
1	aG	161	PHE	CA-CB-CG	-6.04	107.75	113.80
1	aR	143	ARG	N-CA-C	6.04	118.64	111.33
1	b7	173	ARG	N-CA-C	6.04	118.66	111.71
1	bb	211	LEU	O-C-N	-6.04	115.71	122.12
1	cb	18	ARG	CG-CD-NE	-6.04	98.70	112.00
1	d8	116	GLY	O-C-N	-6.04	116.39	122.19
1	dI	78	ALA	CA-C-O	-6.04	114.01	120.42
1	dQ	110	THR	N-CA-CB	6.04	118.93	110.04
1	e0	85	PRO	CA-C-N	6.04	132.85	121.97
1	e0	85	PRO	C-N-CA	6.04	132.85	121.97
1	e1	74	ASN	CA-CB-CG	-6.04	106.56	112.60
1	eg	119	THR	N-CA-C	6.04	120.66	113.28
1	eh	163	ASP	CA-C-N	6.04	128.66	120.44
1	eh	163	ASP	C-N-CA	6.04	128.66	120.44
1	1t	70	LYS	CA-C-O	6.04	127.17	120.82
1	eU	7	GLN	CG-CD-NE2	6.04	125.47	116.40
1	fi	223	GLY	CA-C-N	6.04	125.93	119.28
1	fi	223	GLY	C-N-CA	6.04	125.93	119.28
1	fP	25	LYS	N-CA-C	6.04	118.66	111.71
1	g4	185	MET	N-CA-C	6.04	119.75	112.38
1	0	213	GLU	O-C-N	6.04	128.53	122.12
1	c	84	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	j	110	THR	N-CA-CB	6.04	119.00	110.36
1	H	130	TYR	O-C-N	-6.04	114.37	122.23
1	L	112	GLN	CA-C-O	6.04	126.96	120.55
1	5	95	GLN	CA-C-O	6.04	127.23	120.70
1	ge	20	LEU	N-CA-C	6.04	117.87	111.28
1	gr	104	ILE	N-CA-CB	-6.04	102.32	110.54
1	1D	18	ARG	NE-CZ-NH2	6.04	124.64	119.20
1	gC	143	ARG	N-CA-C	6.04	117.54	111.07
1	gS	113	GLU	CA-C-N	6.04	128.30	120.44
1	gS	113	GLU	C-N-CA	6.04	128.30	120.44
1	gV	58	THR	N-CA-CB	6.04	120.25	110.40
1	h9	133	TRP	CB-CG-CD2	-6.04	118.34	126.80
1	he	115	ILE	CA-C-N	6.04	126.65	119.94
1	he	115	ILE	C-N-CA	6.04	126.65	119.94
1	hO	97	ARG	O-C-N	-6.04	115.22	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hY	212	GLU	O-C-N	-6.04	115.71	122.12
1	ic	10	MET	CB-CA-C	6.04	119.77	109.80
1	iw	102	SER	CA-C-N	6.04	128.38	120.28
1	iw	102	SER	C-N-CA	6.04	128.38	120.28
1	iy	128	GLU	N-CA-CB	-6.04	100.91	110.22
1	iF	229	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	iL	192	GLN	CA-C-O	6.04	126.83	120.42
1	iN	68	MET	CA-C-N	6.04	128.30	120.44
1	iN	68	MET	C-N-CA	6.04	128.30	120.44
1	iN	84	HIS	CA-CB-CG	6.04	119.84	113.80
1	iO	114	GLN	N-CA-C	6.04	117.87	111.28
1	iQ	69	LEU	O-C-N	-6.04	115.85	122.07
1	iY	20	LEU	CA-C-O	6.04	126.96	120.55
1	jG	147	PRO	CA-C-O	-6.04	110.52	118.86
1	jM	119	THR	CA-CB-OG1	6.04	118.66	109.60
1	jW	173	ARG	CA-C-N	6.04	128.30	120.44
1	jW	173	ARG	C-N-CA	6.04	128.30	120.44
1	k0	171	THR	O-C-N	-6.04	114.84	122.27
1	k6	9	GLN	O-C-N	-6.04	115.53	123.21
1	kb	213	GLU	N-CA-CB	6.04	118.77	110.01
1	23	96	MET	N-CA-C	6.04	118.57	110.35
1	kS	211	LEU	CA-C-N	6.04	128.38	120.28
1	kS	211	LEU	C-N-CA	6.04	128.38	120.28
1	kT	172	LEU	N-CA-CB	6.04	119.13	110.06
1	kY	57	ASN	CA-CB-CG	-6.04	106.56	112.60
1	kY	63	GLN	CA-C-N	6.04	131.72	121.14
1	kY	63	GLN	C-N-CA	6.04	131.72	121.14
1	l8	11	VAL	N-CA-C	6.04	116.81	107.99
1	lf	31	ALA	O-C-N	-6.04	114.55	122.59
1	lg	40	PHE	O-C-N	-6.04	114.84	122.27
1	lj	68	MET	CA-C-N	6.04	128.29	120.44
1	lj	68	MET	C-N-CA	6.04	128.29	120.44
1	lq	121	ASN	CA-CB-CG	6.04	118.64	112.60
1	29	23	TRP	N-CA-C	6.04	117.54	111.07
1	lE	70	LYS	O-C-N	-6.04	115.71	122.12
1	2e	88	ALA	N-CA-C	6.04	119.22	110.28
1	2g	75	GLU	N-CA-C	6.04	117.54	111.07
1	2u	72	THR	CA-C-N	6.04	128.74	120.46
1	2u	72	THR	C-N-CA	6.04	128.74	120.46
1	2D	2	ILE	CA-CB-CG1	6.04	120.67	110.40
1	37	181	VAL	CA-C-O	-6.04	114.67	120.95
1	37	203	LYS	N-CA-C	6.04	117.87	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	139	ASN	N-CA-C	6.04	118.36	111.11
1	3p	182	LYS	CA-C-N	6.04	128.38	120.28
1	3p	182	LYS	C-N-CA	6.04	128.38	120.28
1	3w	217	ALA	CB-CA-C	-6.04	101.46	110.16
1	3z	37	ILE	N-CA-C	6.04	120.22	112.67
1	3G	200	THR	CA-C-N	6.04	129.00	120.42
1	3G	200	THR	C-N-CA	6.04	129.00	120.42
1	3L	126	VAL	CA-CB-CG2	6.04	120.67	110.40
1	3R	207	PRO	N-CA-C	6.04	121.70	113.84
1	48	122	PRO	CA-C-N	6.04	126.36	119.83
1	48	122	PRO	C-N-CA	6.04	126.36	119.83
1	4g	5	ASN	CA-C-N	6.04	133.08	121.54
1	4g	5	ASN	C-N-CA	6.04	133.08	121.54
1	4x	73	ILE	N-CA-C	6.04	118.64	111.09
1	4B	86	VAL	CA-C-N	6.04	129.97	121.02
1	4B	86	VAL	C-N-CA	6.04	129.97	121.02
1	4F	226	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	4T	131	LYS	CA-C-N	6.04	128.66	120.38
1	4T	131	LYS	C-N-CA	6.04	128.66	120.38
1	51	132	ARG	N-CA-C	6.04	118.64	111.33
1	5r	58	THR	CA-C-O	-6.04	114.47	120.82
1	5I	177	ALA	O-C-N	-6.04	115.90	122.79
1	5L	50	GLN	OE1-CD-NE2	6.04	128.64	122.60
1	5N	55	MET	N-CA-C	6.04	117.87	111.28
1	66	137	GLY	CA-C-O	-6.04	114.25	120.66
1	6e	51	ASP	CA-CB-CG	-6.04	106.56	112.60
1	6h	56	LEU	O-C-N	-6.04	115.71	122.12
1	6l	36	VAL	CA-C-O	-6.04	114.44	120.85
1	6r	195	ASN	O-C-N	-6.04	114.37	121.32
1	6u	56	LEU	N-CA-C	6.04	117.54	111.07
1	6B	214	MET	N-CA-CB	6.04	119.53	110.22
1	6C	99	PRO	CA-C-O	-6.04	113.90	120.97
1	6S	110	THR	N-CA-CB	6.04	119.61	110.42
1	72	83	LEU	CA-C-N	6.04	128.77	120.67
1	72	83	LEU	C-N-CA	6.04	128.77	120.67
1	7o	189	LEU	CA-C-N	6.04	128.66	120.38
1	7o	189	LEU	C-N-CA	6.04	128.66	120.38
1	7B	55	MET	N-CA-C	6.04	118.64	111.33
1	7X	63	GLN	CB-CA-C	6.04	122.94	110.31
1	85	117	TRP	N-CA-C	6.04	117.95	111.36
1	8i	182	LYS	N-CA-C	6.04	118.66	111.71
1	8u	143	ARG	NE-CZ-NH2	-6.04	113.76	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8w	83	LEU	N-CA-C	-6.04	106.55	114.04
1	8O	183	ASN	OD1-CG-ND2	-6.04	116.56	122.60
1	91	161	PHE	N-CA-CB	-6.04	101.23	110.12
1	96	67	GLN	N-CA-CB	6.04	119.00	110.12
1	9k	112	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	9v	52	LEU	O-C-N	-6.04	115.71	122.12
1	9D	11	VAL	N-CA-C	6.04	117.48	108.23
1	a3	146	SER	CB-CA-C	-6.04	104.19	110.17
1	ah	132	ARG	NE-CZ-NH2	-6.04	113.76	119.20
1	ax	14	ALA	N-CA-CB	-6.04	101.27	110.45
1	ax	93	PRO	O-C-N	-6.04	114.48	122.64
1	ba	229	ARG	CA-C-O	6.04	127.17	120.82
1	bs	87	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	bz	67	GLN	CA-C-N	6.04	128.38	120.28
1	bz	67	GLN	C-N-CA	6.04	128.38	120.28
1	bD	186	THR	CA-CB-CG2	6.04	120.77	110.50
1	bH	114	GLN	N-CA-C	6.04	117.54	111.07
1	bL	28	GLU	CB-CG-CD	6.04	122.88	112.60
1	bX	73	ILE	CA-C-N	6.04	128.30	120.44
1	bX	73	ILE	C-N-CA	6.04	128.30	120.44
1	bZ	74	ASN	O-C-N	-6.04	115.26	122.15
1	1c	131	LYS	N-CA-C	6.04	117.87	111.28
1	ck	44	SER	N-CA-C	6.04	120.34	113.15
1	cp	188	THR	CA-C-N	6.04	128.38	120.28
1	cp	188	THR	C-N-CA	6.04	128.38	120.28
1	cq	182	LYS	CA-C-N	6.04	129.19	120.79
1	cq	182	LYS	C-N-CA	6.04	129.19	120.79
1	cu	5	ASN	CA-CB-CG	6.04	118.64	112.60
1	cW	154	ARG	NH1-CZ-NH2	-6.04	111.44	119.30
1	cX	44	SER	CA-C-N	6.04	129.50	120.31
1	cX	44	SER	C-N-CA	6.04	129.50	120.31
1	d9	133	TRP	CB-CG-CD2	-6.04	118.34	126.80
1	dd	66	MET	N-CA-C	6.04	117.87	111.28
1	dh	130	TYR	N-CA-C	6.04	117.87	111.28
1	di	120	HIS	CG-CD2-NE2	6.04	113.24	107.20
1	dx	128	GLU	N-CA-C	6.04	117.87	111.28
1	e1	73	ILE	CA-CB-CG1	6.04	120.67	110.40
1	e7	189	LEU	N-CA-C	6.04	117.87	111.28
1	ey	12	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	eC	133	TRP	CB-CG-CD2	-6.04	118.34	126.80
1	eM	191	VAL	CA-C-N	6.04	128.87	120.29
1	eM	191	VAL	C-N-CA	6.04	128.87	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eN	160	PRO	N-CA-CB	6.04	108.63	103.19
1	eR	2	ILE	N-CA-CB	6.04	119.75	111.41
1	f7	7	GLN	CB-CG-CD	6.04	122.87	112.60
1	f8	143	ARG	O-C-N	-6.04	115.71	122.12
1	fl	38	PRO	N-CD-CG	6.04	112.27	103.20
1	fr	80	TRP	CA-C-O	6.04	127.17	120.82
1	fB	12	HIS	N-CA-CB	6.04	120.27	110.42
1	b	166	ASP	O-C-N	-6.04	115.71	122.12
1	E	33	SER	CA-C-N	-6.04	114.67	120.83
1	E	33	SER	C-N-CA	-6.04	114.67	120.83
1	E	61	GLY	O-C-N	-6.04	116.15	122.13
1	H	23	TRP	CZ3-CH2-CZ2	-6.04	113.64	121.50
1	L	87	HIS	CB-CG-CD2	6.04	139.06	131.20
1	N	85	PRO	CA-C-N	6.04	128.67	120.63
1	N	85	PRO	C-N-CA	6.04	128.67	120.63
1	W	212	GLU	CA-C-N	6.04	128.66	120.38
1	W	212	GLU	C-N-CA	6.04	128.66	120.38
1	g9	220	GLY	CA-C-N	6.04	132.84	121.97
1	g9	220	GLY	C-N-CA	6.04	132.84	121.97
1	ga	211	LEU	O-C-N	-6.04	115.72	122.12
1	gp	126	VAL	N-CA-CB	6.04	118.75	110.54
1	gE	202	LEU	CB-CA-C	6.04	120.82	110.79
1	gK	127	GLY	N-CA-C	6.04	119.98	112.73
1	gQ	92	GLU	O-C-N	-6.04	114.37	121.32
1	gV	128	GLU	N-CA-C	6.04	117.56	110.97
1	gW	223	GLY	CA-C-O	-6.04	116.16	122.38
1	h1	54	THR	CA-C-N	6.04	128.62	120.65
1	h1	54	THR	C-N-CA	6.04	128.62	120.65
1	ht	22	ALA	CA-C-N	6.04	128.70	120.54
1	ht	22	ALA	C-N-CA	6.04	128.70	120.54
1	hz	189	LEU	CA-C-N	6.04	128.38	120.28
1	hz	189	LEU	C-N-CA	6.04	128.38	120.28
1	hD	181	VAL	CA-C-N	6.04	128.66	120.38
1	hD	181	VAL	C-N-CA	6.04	128.66	120.38
1	hM	111	LEU	N-CA-C	6.04	117.53	111.07
1	hO	200	THR	N-CA-C	6.04	117.86	111.28
1	1N	140	LYS	N-CA-C	6.04	118.36	111.11
1	i8	124	ILE	O-C-N	-6.04	116.31	121.57
1	ii	162	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	ik	4	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	iz	14	ALA	CA-C-N	6.04	128.59	120.50
1	iz	14	ALA	C-N-CA	6.04	128.59	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iZ	169	TYR	CA-CB-CG	-6.04	103.03	113.90
1	j0	14	ALA	N-CA-C	6.04	118.99	110.23
1	j1	221	VAL	O-C-N	-6.04	116.90	123.18
1	jr	83	LEU	O-C-N	-6.04	114.33	122.43
1	jt	173	ARG	NH1-CZ-NH2	-6.04	111.44	119.30
1	k1	201	ILE	O-C-N	-6.04	113.54	121.82
1	ka	42	ALA	N-CA-C	6.04	117.53	111.07
1	kK	51	ASP	N-CA-C	6.04	117.53	111.07
1	kN	81	ASP	CB-CA-C	6.04	120.36	110.88
1	la	24	VAL	CA-C-N	6.04	128.29	120.44
1	la	24	VAL	C-N-CA	6.04	128.29	120.44
1	27	68	MET	CA-C-O	6.04	126.82	120.42
1	lo	57	ASN	CA-CB-CG	6.04	118.64	112.60
1	lx	198	CYS	O-C-N	6.04	128.52	122.12
1	lE	23	TRP	CB-CG-CD2	6.04	135.26	126.80
1	lK	205	LEU	N-CA-C	-6.04	105.74	113.23
1	lL	84	HIS	CA-CB-CG	6.04	119.84	113.80
1	2r	133	TRP	O-C-N	-6.04	115.85	122.07
1	2L	57	ASN	OD1-CG-ND2	-6.04	116.56	122.60
1	2U	18	ARG	CA-C-N	6.04	128.98	120.28
1	2U	18	ARG	C-N-CA	6.04	128.98	120.28
1	3a	179	GLN	CA-C-O	-6.04	114.11	120.63
1	3b	139	ASN	CA-CB-CG	-6.04	106.56	112.60
1	3e	45	GLU	N-CA-C	6.04	123.67	110.80
1	3G	96	MET	N-CA-C	-6.04	100.65	110.20
1	4v	48	THR	CA-C-O	-6.04	114.38	120.96
1	4G	62	HIS	ND1-CG-CD2	6.04	112.14	106.10
1	4U	140	LYS	N-CA-CB	6.04	119.53	110.22
1	51	30	LYS	O-C-N	-6.04	114.59	122.39
1	5u	52	LEU	CA-C-N	6.04	129.20	120.38
1	5u	52	LEU	C-N-CA	6.04	129.20	120.38
1	5x	79	GLU	O-C-N	-6.04	114.23	122.33
1	60	184	TRP	N-CA-C	6.04	117.86	111.28
1	62	72	THR	CA-C-O	6.04	126.92	119.97
1	68	220	GLY	CA-C-N	6.04	130.68	123.19
1	68	220	GLY	C-N-CA	6.04	130.68	123.19
1	6k	39	MET	CA-C-O	6.04	127.16	120.82
1	6k	74	ASN	CA-C-N	6.04	128.29	120.44
1	6k	74	ASN	C-N-CA	6.04	128.29	120.44
1	6u	145	TYR	CA-C-N	6.04	128.87	120.65
1	6u	145	TYR	C-N-CA	6.04	128.87	120.65
1	6H	153	ILE	CA-CB-CG2	-6.04	100.23	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	23	TRP	CB-CG-CD2	6.04	135.26	126.80
1	6M	116	GLY	CA-C-N	6.04	128.37	120.28
1	6M	116	GLY	C-N-CA	6.04	128.37	120.28
1	6X	101	GLY	N-CA-C	6.04	120.20	112.83
1	7a	167	ARG	N-CA-C	6.04	117.86	111.28
1	7l	153	ILE	N-CA-C	6.04	119.32	109.78
1	7A	18	ARG	O-C-N	-6.04	115.72	122.12
1	7Z	224	PRO	CA-C-O	-6.04	114.77	121.23
1	8o	196	PRO	CB-CA-C	6.04	121.53	111.56
1	8H	26	VAL	N-CA-CB	6.04	116.96	110.62
1	9a	39	MET	CA-C-O	6.04	126.95	120.55
1	9e	200	THR	CA-CB-CG2	6.04	120.77	110.50
1	9m	23	TRP	N-CA-C	6.04	117.67	111.14
1	9q	32	PHE	CA-CB-CG	-6.04	107.76	113.80
1	9B	72	THR	CA-C-N	6.04	128.74	120.46
1	9B	72	THR	C-N-CA	6.04	128.74	120.46
1	Y	70	LYS	CB-CA-C	6.04	120.37	110.88
1	an	88	ALA	O-C-N	-6.04	114.88	122.19
1	ax	146	SER	N-CA-CB	6.04	117.54	110.71
1	aI	62	HIS	CA-CB-CG	6.04	119.84	113.80
1	aM	91	ILE	CA-CB-CG1	6.04	120.67	110.40
1	aZ	193	ASN	CA-CB-CG	-6.04	106.56	112.60
1	b0	7	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	b0	22	ALA	N-CA-C	6.04	117.87	111.28
1	b7	136	LEU	CA-C-N	6.04	127.95	120.34
1	b7	136	LEU	C-N-CA	6.04	127.95	120.34
1	bv	70	LYS	CA-C-N	6.04	128.38	120.28
1	bv	70	LYS	C-N-CA	6.04	128.38	120.28
1	bx	5	ASN	CA-CB-CG	6.04	118.64	112.60
1	bD	84	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	bU	57	ASN	N-CA-C	6.04	120.65	113.28
1	1e	169	TYR	N-CA-C	6.04	117.87	111.28
1	cv	32	PHE	N-CA-C	-6.04	105.22	112.59
1	cU	55	MET	CG-SD-CE	-6.04	87.61	100.90
1	dl	80	TRP	CG-CD2-CE3	-6.04	127.86	133.90
1	dM	193	ASN	CA-CB-CG	-6.04	106.56	112.60
1	dS	115	ILE	N-CA-C	6.04	116.78	110.62
1	ew	18	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	eD	146	SER	CA-C-N	6.04	125.43	118.85
1	eD	146	SER	C-N-CA	6.04	125.43	118.85
1	eG	73	ILE	CA-C-N	6.04	128.70	120.54
1	eG	73	ILE	C-N-CA	6.04	128.70	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eV	87	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	f2	75	GLU	O-C-N	-6.04	115.72	122.12
1	1v	191	VAL	N-CA-C	6.04	116.82	110.72
1	fd	80	TRP	O-C-N	-6.04	115.85	122.07
1	fu	119	THR	N-CA-CB	6.04	119.70	110.70
1	fI	28	GLU	N-CA-C	6.04	117.53	111.07
1	fS	123	PRO	CA-C-O	-6.04	114.63	122.12
1	1A	164	TYR	CB-CG-CD1	6.04	129.86	120.80
1	fY	32	PHE	CA-CB-CG	-6.04	107.76	113.80
1	g4	168	PHE	CA-CB-CG	6.04	119.84	113.80
1	b	138	LEU	CB-CA-C	-6.04	101.39	110.88
1	J	33	SER	O-C-N	-6.04	116.41	121.54
1	Q	190	LEU	O-C-N	-6.04	115.72	122.12
1	g8	84	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	gl	21	ASN	CA-CB-CG	-6.04	106.56	112.60
1	h6	220	GLY	CA-C-O	6.04	127.66	120.90
1	iE	139	ASN	CA-CB-CG	-6.04	106.56	112.60
1	iN	150	ILE	CA-C-O	6.04	127.09	119.48
1	j7	63	GLN	N-CA-C	6.04	118.83	111.82
1	jA	49	PRO	CB-CA-C	6.04	120.93	112.11
1	kd	159	GLU	CA-C-N	6.04	126.00	119.78
1	kd	159	GLU	C-N-CA	6.04	126.00	119.78
1	kQ	93	PRO	N-CA-CB	-6.04	97.71	103.33
1	25	139	ASN	O-C-N	-6.04	115.72	122.12
1	l5	66	MET	N-CA-C	6.04	117.86	111.28
1	lM	84	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	2i	129	ILE	N-CA-CB	6.04	117.62	110.55
1	2q	9	GLN	CA-C-N	6.04	133.08	121.54
1	2q	9	GLN	C-N-CA	6.04	133.08	121.54
1	2U	55	MET	N-CA-C	6.04	117.86	111.28
1	3B	142	VAL	CA-CB-CG1	6.04	120.67	110.40
1	3W	40	PHE	N-CA-CB	6.04	119.00	110.12
1	4b	115	ILE	N-CA-C	-6.04	104.46	110.62
1	5Q	51	ASP	O-C-N	-6.04	115.85	122.07
1	5R	183	ASN	CA-C-N	6.04	128.37	120.28
1	5R	183	ASN	C-N-CA	6.04	128.37	120.28
1	6r	134	ILE	CA-C-N	6.04	128.74	120.46
1	6r	134	ILE	C-N-CA	6.04	128.74	120.46
1	7I	173	ARG	NE-CZ-NH2	6.04	124.64	119.20
1	8h	214	MET	O-C-N	-6.04	115.72	122.12
1	8j	139	ASN	CA-C-N	6.04	128.37	120.28
1	8j	139	ASN	C-N-CA	6.04	128.37	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8p	10	MET	N-CA-C	6.04	118.99	110.23
1	9G	219	GLN	N-CA-C	6.04	117.53	111.07
1	ae	174	ALA	N-CA-C	6.04	118.66	111.71
1	ao	54	THR	O-C-N	-6.04	115.72	122.12
1	aq	87	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	aV	96	MET	CA-C-N	6.04	129.96	121.02
1	aV	96	MET	C-N-CA	6.04	129.96	121.02
1	b0	94	GLY	CA-C-O	-6.04	111.59	119.44
1	b8	166	ASP	CA-C-N	6.04	128.87	120.29
1	b8	166	ASP	C-N-CA	6.04	128.87	120.29
1	bJ	180	GLU	CB-CG-CD	6.04	122.87	112.60
1	bQ	69	LEU	CA-C-N	6.04	128.37	120.28
1	bQ	69	LEU	C-N-CA	6.04	128.37	120.28
1	c2	111	LEU	O-C-N	-6.04	114.84	122.27
1	c6	27	VAL	CA-CB-CG1	6.04	120.67	110.40
1	cA	107	THR	N-CA-CB	6.04	118.83	110.07
1	df	51	ASP	CA-C-O	-6.04	114.15	120.55
1	dj	62	HIS	ND1-CG-CD2	6.04	112.14	106.10
1	dI	72	THR	CA-CB-OG1	6.04	118.66	109.60
1	dV	47	ALA	N-CA-CB	6.04	118.92	110.04
1	fw	18	ARG	CD-NE-CZ	-6.04	115.94	124.40
1	fE	211	LEU	CA-C-O	6.04	126.92	120.10
1	g0	22	ALA	CA-C-N	6.04	128.65	120.44
1	g0	22	ALA	C-N-CA	6.04	128.65	120.44
1	a	29	GLU	N-CA-C	6.04	117.53	111.07
1	q	197	ASP	CA-C-N	6.04	128.69	120.54
1	q	197	ASP	C-N-CA	6.04	128.69	120.54
1	t	186	THR	O-C-N	-6.04	114.12	122.46
1	Q	87	HIS	CG-CD2-NE2	6.04	113.24	107.20
1	ge	53	ASN	OD1-CG-ND2	-6.04	116.56	122.60
1	gk	42	ALA	N-CA-CB	6.04	118.77	110.01
1	gn	175	GLU	O-C-N	-6.04	115.68	122.75
1	gA	197	ASP	CA-CB-CG	6.04	118.64	112.60
1	gD	33	SER	CA-C-N	6.04	125.59	119.19
1	gD	33	SER	C-N-CA	6.04	125.59	119.19
1	gH	145	TYR	CA-C-N	6.04	128.86	120.65
1	gH	145	TYR	C-N-CA	6.04	128.86	120.65
1	ha	161	PHE	CA-C-N	6.04	128.37	120.28
1	ha	161	PHE	C-N-CA	6.04	128.37	120.28
1	hf	216	THR	N-CA-C	-6.04	105.09	112.88
1	hu	81	ASP	CA-CB-CG	-6.04	106.56	112.60
1	1K	32	PHE	CA-CB-CG	-6.04	107.76	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1K	154	ARG	CA-C-N	6.04	129.40	120.95
1	1K	154	ARG	C-N-CA	6.04	129.40	120.95
1	hA	4	GLN	CB-CG-CD	6.04	122.87	112.60
1	hA	194	ALA	O-C-N	-6.04	116.16	123.16
1	hK	189	LEU	N-CA-C	6.04	117.86	111.28
1	hT	148	THR	N-CA-C	-6.04	100.41	108.74
1	1M	209	ALA	CA-C-N	6.04	131.70	120.95
1	1M	209	ALA	C-N-CA	6.04	131.70	120.95
1	hY	13	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	hZ	103	ASP	CA-CB-CG	-6.04	106.56	112.60
1	i8	24	VAL	CB-CA-C	6.04	120.29	112.14
1	iw	9	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	iR	190	LEU	CA-C-N	6.04	128.17	120.56
1	iR	190	LEU	C-N-CA	6.04	128.17	120.56
1	iY	102	SER	CA-C-N	6.04	128.65	120.44
1	iY	102	SER	C-N-CA	6.04	128.65	120.44
1	j0	41	SER	CA-C-N	6.04	128.37	120.28
1	j0	41	SER	C-N-CA	6.04	128.37	120.28
1	jg	140	LYS	N-CA-C	6.04	117.94	111.36
1	1V	159	GLU	O-C-N	-6.04	115.24	121.28
1	jy	6	LEU	CB-CA-C	6.04	120.16	109.65
1	jB	197	ASP	CA-C-O	6.04	126.94	120.24
1	jL	128	GLU	N-CA-C	6.04	118.65	111.71
1	jX	124	ILE	CA-C-O	-6.04	115.74	119.12
1	20	132	ARG	N-CA-C	6.04	119.91	112.54
1	kL	105	ALA	N-CA-C	6.04	120.33	113.15
1	28	173	ARG	NH1-CZ-NH2	6.04	127.15	119.30
1	lE	62	HIS	CA-CB-CG	-6.04	107.76	113.80
1	lK	184	TRP	CA-C-N	6.04	128.65	120.38
1	lK	184	TRP	C-N-CA	6.04	128.65	120.38
1	2f	142	VAL	N-CA-C	6.04	116.70	110.36
1	2s	191	VAL	N-CA-C	6.04	116.82	110.72
1	2A	221	VAL	CA-C-O	-6.04	114.07	120.53
1	2K	138	LEU	N-CA-CB	6.04	118.77	110.01
1	2N	118	MET	N-CA-C	6.04	120.26	113.01
1	37	35	GLU	N-CA-C	6.04	119.91	112.54
1	3F	57	ASN	N-CA-C	6.04	118.64	111.33
1	45	203	LYS	CA-C-N	6.04	128.29	120.44
1	45	203	LYS	C-N-CA	6.04	128.29	120.44
1	49	124	ILE	CA-CB-CG1	6.04	120.67	110.40
1	4e	81	ASP	N-CA-C	6.04	117.86	111.28
1	4P	194	ALA	N-CA-C	6.04	118.80	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4X	16	SER	CA-C-O	-6.04	114.07	120.23
1	50	203	LYS	N-CA-C	6.04	117.86	111.28
1	55	118	MET	CG-SD-CE	-6.04	87.62	100.90
1	5k	180	GLU	N-CA-CB	6.04	118.77	110.01
1	5t	75	GLU	CB-CA-C	-6.04	100.58	110.85
1	5B	76	GLU	CA-C-N	6.04	128.37	120.28
1	5B	76	GLU	C-N-CA	6.04	128.37	120.28
1	5B	177	ALA	N-CA-C	6.04	118.56	110.35
1	5U	113	GLU	O-C-N	-6.04	115.27	122.15
1	5V	173	ARG	N-CA-C	6.04	117.86	111.28
1	6C	201	ILE	N-CA-C	6.04	116.78	110.62
1	6N	64	ALA	CA-C-O	6.04	127.16	120.82
1	6T	129	ILE	O-C-N	6.04	127.83	121.91
1	6W	111	LEU	CA-C-N	6.04	128.29	120.44
1	6W	111	LEU	C-N-CA	6.04	128.29	120.44
1	6W	181	VAL	CB-CA-C	-6.04	104.24	111.97
1	70	167	ARG	N-CA-C	6.04	118.82	111.82
1	73	163	ASP	CA-CB-CG	-6.04	106.56	112.60
1	78	162	ARG	NE-CZ-NH2	-6.04	113.77	119.20
1	7e	127	GLY	N-CA-C	6.04	119.80	112.49
1	7w	15	ILE	O-C-N	-6.04	116.40	122.62
1	7A	120	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	7C	184	TRP	CA-C-O	-6.04	114.48	120.82
1	7D	121	ASN	O-C-N	-6.04	116.02	121.39
1	7H	111	LEU	CA-C-N	6.04	128.29	120.44
1	7H	111	LEU	C-N-CA	6.04	128.29	120.44
1	89	103	ASP	CA-C-O	-6.04	113.54	120.24
1	8j	120	HIS	CG-CD2-NE2	6.04	113.24	107.20
1	8k	50	GLN	N-CA-C	6.04	117.86	111.28
1	8t	126	VAL	N-CA-CB	6.04	121.19	111.23
1	8w	46	GLY	O-C-N	-6.04	114.85	122.70
1	8y	166	ASP	CA-CB-CG	6.04	118.64	112.60
1	8C	18	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	8Q	10	MET	N-CA-C	6.04	119.36	109.76
1	9i	198	CYS	O-C-N	-6.04	115.72	122.12
1	9n	73	ILE	CA-CB-CG1	6.04	120.67	110.40
1	9q	226	HIS	CE1-NE2-CD2	-6.04	102.96	109.00
1	9r	206	GLY	O-C-N	-6.04	115.73	121.77
1	9J	3	VAL	CA-C-O	-6.04	115.51	121.67
1	9V	191	VAL	CA-C-O	6.04	127.57	121.17
1	ab	210	THR	CA-C-N	6.04	128.65	120.38
1	ab	210	THR	C-N-CA	6.04	128.65	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aw	74	ASN	O-C-N	-6.04	115.72	122.12
1	aG	141	ILE	CA-CB-CG1	6.04	120.67	110.40
1	aN	140	LYS	N-CA-C	6.04	117.53	111.07
1	b5	83	LEU	N-CA-C	6.04	117.66	111.14
1	c0	220	GLY	N-CA-C	-6.04	106.38	115.32
1	cg	222	GLY	CA-C-N	6.04	131.35	121.87
1	cg	222	GLY	C-N-CA	6.04	131.35	121.87
1	ch	36	VAL	N-CA-CB	6.04	117.21	110.51
1	cz	97	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	cH	92	GLU	O-C-N	-6.04	114.38	121.32
1	cK	70	LYS	CB-CA-C	-6.04	101.40	110.88
1	cQ	210	THR	CA-CB-OG1	6.04	118.66	109.60
1	d7	3	VAL	CA-C-N	6.04	128.87	120.29
1	d7	3	VAL	C-N-CA	6.04	128.87	120.29
1	dc	101	GLY	CA-C-N	6.04	128.37	120.28
1	dc	101	GLY	C-N-CA	6.04	128.37	120.28
1	dn	9	GLN	CB-CA-C	6.04	118.86	110.16
1	dD	75	GLU	N-CA-C	6.04	117.53	111.07
1	dN	171	THR	CA-CB-CG2	6.04	120.77	110.50
1	eq	51	ASP	N-CA-C	6.04	117.53	111.07
1	eA	155	GLN	CB-CA-C	-6.04	100.23	109.89
1	eT	129	ILE	O-C-N	-6.04	115.99	121.91
1	eV	191	VAL	N-CA-C	6.04	116.82	110.72
1	fq	192	GLN	CB-CG-CD	6.04	122.86	112.60
1	fq	212	GLU	O-C-N	6.04	128.29	122.07
1	fU	68	MET	CA-C-O	6.04	126.95	120.55
1	fW	149	SER	N-CA-CB	6.04	120.69	110.49
1	g2	28	GLU	N-CA-C	6.04	118.83	111.82
1	h	73	ILE	CA-C-O	-6.04	114.77	121.17
1	p	185	MET	N-CA-C	6.04	117.86	111.28
1	G	21	ASN	CA-C-N	6.04	128.69	120.54
1	G	21	ASN	C-N-CA	6.04	128.69	120.54
1	G	207	PRO	CA-C-N	6.04	130.94	122.36
1	G	207	PRO	C-N-CA	6.04	130.94	122.36
1	N	12	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	7	133	TRP	CG-CD2-CE3	-6.04	127.86	133.90
1	9	61	GLY	CA-C-N	6.04	131.22	122.16
1	9	61	GLY	C-N-CA	6.04	131.22	122.16
1	gU	114	GLN	N-CA-C	6.04	117.86	111.28
1	j2	129	ILE	O-C-N	-6.04	115.99	121.91
1	jc	188	THR	OG1-CB-CG2	-6.04	97.23	109.30
1	jk	23	TRP	N-CA-C	6.04	117.94	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jr	27	VAL	O-C-N	-6.04	116.02	121.87
1	jB	21	ASN	CA-C-N	6.04	128.86	120.29
1	jB	21	ASN	C-N-CA	6.04	128.86	120.29
1	kz	143	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	kP	82	ARG	CA-C-N	6.04	128.29	120.44
1	kP	82	ARG	C-N-CA	6.04	128.29	120.44
1	kW	26	VAL	N-CA-CB	6.04	119.64	110.58
1	lA	199	LYS	CA-C-N	6.04	128.86	120.29
1	lA	199	LYS	C-N-CA	6.04	128.86	120.29
1	lM	12	HIS	CA-C-N	6.04	131.50	122.99
1	lM	12	HIS	C-N-CA	6.04	131.50	122.99
1	2o	67	GLN	CB-CG-CD	6.04	122.86	112.60
1	2O	180	GLU	CA-C-N	6.04	128.17	120.56
1	2O	180	GLU	C-N-CA	6.04	128.17	120.56
1	34	156	GLY	CA-C-O	-6.04	116.60	122.46
1	3u	87	HIS	O-C-N	-6.04	115.50	122.93
1	47	187	GLU	CA-C-O	-6.04	114.02	120.42
1	4p	10	MET	N-CA-C	6.04	119.74	110.20
1	4v	15	ILE	O-C-N	-6.04	115.02	122.57
1	4H	137	GLY	CA-C-N	6.04	128.37	120.28
1	4H	137	GLY	C-N-CA	6.04	128.37	120.28
1	52	78	ALA	N-CA-C	6.04	117.86	111.28
1	5s	12	HIS	CA-C-N	6.04	131.50	123.05
1	5s	12	HIS	C-N-CA	6.04	131.50	123.05
1	5t	75	GLU	N-CA-C	6.04	117.94	111.36
1	5y	62	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	5Q	124	ILE	CB-CG1-CD1	6.04	126.48	113.80
1	6p	149	SER	N-CA-CB	6.04	119.53	110.53
1	6F	15	ILE	CA-C-O	6.04	128.13	121.13
1	6M	88	ALA	CA-C-O	6.04	128.14	121.56
1	6P	98	GLU	N-CA-CB	6.04	118.92	110.11
1	7H	218	CYS	CB-CA-C	-6.04	103.77	111.86
1	8j	138	LEU	O-C-N	-6.04	115.72	122.12
1	8u	91	ILE	CA-C-N	6.04	129.46	120.83
1	8u	91	ILE	C-N-CA	6.04	129.46	120.83
1	8E	200	THR	CA-C-O	6.04	126.95	120.55
1	8L	70	LYS	N-CA-C	6.04	117.86	111.28
1	8R	107	THR	N-CA-CB	6.04	119.06	110.13
1	8W	134	ILE	CA-C-N	6.04	128.17	120.56
1	8W	134	ILE	C-N-CA	6.04	128.17	120.56
1	a5	35	GLU	CA-C-O	6.04	126.71	119.10
1	a7	55	MET	CG-SD-CE	-6.04	87.62	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ae	52	LEU	CA-C-O	-6.04	113.03	119.97
1	aZ	120	HIS	CA-CB-CG	6.04	119.84	113.80
1	b3	66	MET	CA-C-N	6.04	128.37	120.28
1	b3	66	MET	C-N-CA	6.04	128.37	120.28
1	bz	199	LYS	CA-C-N	6.04	128.29	120.44
1	bz	199	LYS	C-N-CA	6.04	128.29	120.44
1	bD	66	MET	CA-C-O	6.04	126.95	120.55
1	bG	228	ALA	N-CA-C	6.04	120.81	113.38
1	1d	33	SER	CA-C-N	6.04	127.15	120.45
1	1d	33	SER	C-N-CA	6.04	127.15	120.45
1	dg	178	SER	CA-C-N	6.04	128.37	120.28
1	dg	178	SER	C-N-CA	6.04	128.37	120.28
1	dq	79	GLU	N-CA-C	6.04	117.53	111.07
1	dD	115	ILE	N-CA-C	-6.04	104.46	110.62
1	e8	214	MET	N-CA-C	6.04	117.86	111.28
1	eS	63	GLN	N-CA-CB	-6.04	100.92	110.28
1	f6	116	GLY	O-C-N	-6.04	116.15	122.13
1	fO	139	ASN	CA-CB-CG	-6.04	106.56	112.60
1	fQ	64	ALA	N-CA-C	6.04	117.86	111.28
1	1	43	LEU	N-CA-C	6.04	120.38	112.89
1	w	81	ASP	CA-CB-CG	6.04	118.64	112.60
1	z	165	VAL	N-CA-C	6.04	116.78	110.62
1	D	139	ASN	CB-CG-ND2	6.04	125.46	116.40
1	gd	225	GLY	CA-C-O	6.04	128.31	122.28
1	gr	120	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	gD	12	HIS	CG-CD2-NE2	6.04	113.23	107.20
1	gR	66	MET	O-C-N	-6.04	114.85	122.27
1	1H	167	ARG	NE-CZ-NH2	-6.04	113.77	119.20
1	hN	74	ASN	OD1-CG-ND2	6.04	128.63	122.60
1	hS	66	MET	CA-C-O	6.04	126.91	119.97
1	ie	17	PRO	CA-C-N	6.04	128.28	120.44
1	ie	17	PRO	C-N-CA	6.04	128.28	120.44
1	io	161	PHE	CA-C-N	6.04	130.79	121.19
1	io	161	PHE	C-N-CA	6.04	130.79	121.19
1	iD	130	TYR	CA-C-N	6.04	128.97	120.28
1	iD	130	TYR	C-N-CA	6.04	128.97	120.28
1	iR	53	ASN	CA-CB-CG	-6.04	106.56	112.60
1	iS	92	GLU	CA-C-N	6.04	127.39	119.84
1	iS	92	GLU	C-N-CA	6.04	127.39	119.84
1	1T	75	GLU	CA-C-N	6.04	128.65	120.38
1	1T	75	GLU	C-N-CA	6.04	128.65	120.38
1	ja	215	MET	N-CA-C	6.04	117.86	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	129	ILE	CA-C-O	6.04	127.55	121.27
1	jt	43	LEU	O-C-N	-6.04	115.72	122.12
1	jD	135	ILE	N-CA-C	6.04	116.78	110.62
1	jH	94	GLY	CA-C-O	6.04	125.74	118.86
1	jM	13	GLN	CA-C-O	6.04	127.60	120.66
1	kn	143	ARG	NE-CZ-NH2	6.04	124.63	119.20
1	kp	75	GLU	CA-C-N	6.04	128.37	120.28
1	kp	75	GLU	C-N-CA	6.04	128.37	120.28
1	ks	64	ALA	O-C-N	-6.04	113.79	122.36
1	kw	37	ILE	CA-C-O	6.04	123.30	118.71
1	kM	164	TYR	N-CA-C	6.04	117.94	111.36
1	24	67	GLN	N-CA-C	6.04	117.86	111.28
1	l5	203	LYS	N-CA-C	6.04	117.86	111.28
1	ld	10	MET	N-CA-C	6.04	118.56	110.35
1	lj	227	LYS	O-C-N	-6.04	115.72	122.12
1	lk	96	MET	CG-SD-CE	-6.04	87.62	100.90
1	lz	19	THR	N-CA-C	6.04	117.53	111.07
1	lR	183	ASN	CA-CB-CG	-6.04	106.56	112.60
1	2b	73	ILE	CB-CA-C	-6.04	103.99	112.14
1	2l	81	ASP	CA-C-N	6.04	128.69	120.54
1	2l	81	ASP	C-N-CA	6.04	128.69	120.54
1	2u	230	VAL	O-C-N	-6.04	116.40	122.62
1	2J	148	THR	N-CA-CB	6.04	118.86	110.17
1	30	11	VAL	CA-C-N	6.04	130.13	121.50
1	30	11	VAL	C-N-CA	6.04	130.13	121.50
1	3i	218	CYS	CB-CA-C	6.04	119.84	111.63
1	3n	195	ASN	CA-C-O	-6.04	113.87	120.87
1	3C	210	THR	CA-C-N	6.04	128.37	120.28
1	3C	210	THR	C-N-CA	6.04	128.37	120.28
1	3M	25	LYS	CB-CG-CD	6.04	125.18	111.30
1	3X	29	GLU	CA-C-N	6.04	132.89	122.09
1	3X	29	GLU	C-N-CA	6.04	132.89	122.09
1	3Y	98	GLU	CA-C-O	-6.04	113.52	119.49
1	41	41	SER	CA-C-O	-6.04	114.15	120.55
1	4q	214	MET	N-CA-CB	6.04	119.09	110.16
1	4t	118	MET	N-CA-CB	6.04	118.99	110.12
1	4v	176	GLN	CA-C-O	6.04	126.30	119.18
1	4w	162	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	4L	88	ALA	N-CA-C	6.04	118.98	110.23
1	4L	114	GLN	CA-C-O	-6.04	114.48	120.82
1	58	133	TRP	CB-CA-C	6.04	120.81	110.79
1	58	196	PRO	N-CA-C	6.04	124.90	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5L	126	VAL	CA-CB-CG2	6.04	120.66	110.40
1	5M	66	MET	N-CA-C	6.04	117.66	111.14
1	6d	74	ASN	N-CA-C	6.04	117.86	111.28
1	6l	53	ASN	N-CA-C	6.04	117.86	111.28
1	6u	90	PRO	N-CA-C	6.04	124.90	112.47
1	6C	126	VAL	N-CA-CB	6.04	118.01	110.47
1	7d	143	ARG	CB-CA-C	-6.04	100.77	110.79
1	7D	200	THR	OG1-CB-CG2	-6.04	97.23	109.30
1	7J	20	LEU	CA-C-N	6.04	129.49	120.31
1	7J	20	LEU	C-N-CA	6.04	129.49	120.31
1	82	209	ALA	N-CA-CB	-6.04	101.17	110.04
1	8s	87	HIS	CA-CB-CG	-6.04	107.77	113.80
1	8I	84	HIS	CA-CB-CG	-6.04	107.76	113.80
1	8O	138	LEU	N-CA-C	6.04	117.53	111.07
1	90	226	HIS	CA-C-O	6.04	126.84	119.11
1	9l	80	TRP	N-CA-C	6.04	117.86	111.28
1	9H	185	MET	CA-C-N	6.04	128.37	120.28
1	9H	185	MET	C-N-CA	6.04	128.37	120.28
1	9M	226	HIS	CB-CG-ND1	6.04	131.75	122.70
1	9R	210	THR	CA-CB-OG1	6.04	118.65	109.60
1	Z	134	ILE	CA-C-N	6.04	128.73	120.46
1	Z	134	ILE	C-N-CA	6.04	128.73	120.46
1	Z	163	ASP	O-C-N	-6.04	115.72	122.12
1	a5	165	VAL	CA-C-N	6.04	128.86	120.29
1	a5	165	VAL	C-N-CA	6.04	128.86	120.29
1	10	50	GLN	CB-CA-C	-6.04	99.08	110.67
1	aa	183	ASN	CA-C-N	6.04	128.65	120.44
1	aa	183	ASN	C-N-CA	6.04	128.65	120.44
1	ab	136	LEU	CA-C-N	6.04	126.64	119.94
1	ab	136	LEU	C-N-CA	6.04	126.64	119.94
1	aD	100	ARG	NE-CZ-NH1	6.04	127.54	121.50
1	aJ	77	ALA	N-CA-CB	-6.04	101.26	110.01
1	aO	27	VAL	O-C-N	-6.04	114.98	121.80
1	aZ	223	GLY	O-C-N	-6.04	115.73	121.77
1	bk	162	ARG	CA-C-N	6.04	128.37	120.28
1	bk	162	ARG	C-N-CA	6.04	128.37	120.28
1	19	97	ARG	N-CA-C	6.04	118.56	110.35
1	bE	72	THR	CA-C-N	6.04	128.17	120.56
1	bE	72	THR	C-N-CA	6.04	128.17	120.56
1	bV	32	PHE	CA-C-N	6.04	129.83	120.60
1	bV	32	PHE	C-N-CA	6.04	129.83	120.60
1	c6	57	ASN	CA-CB-CG	-6.04	106.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	199	LYS	N-CA-C	6.04	117.86	111.28
1	cf	84	HIS	CE1-NE2-CD2	-6.04	102.97	109.00
1	cv	103	ASP	N-CA-C	6.04	117.86	111.28
1	cy	48	THR	O-C-N	-6.04	114.89	121.53
1	cD	184	TRP	CB-CG-CD2	-6.04	118.35	126.80
1	cX	155	GLN	OE1-CD-NE2	-6.04	116.56	122.60
1	dh	208	ALA	O-C-N	-6.04	114.60	122.39
1	dl	102	SER	N-CA-C	6.04	118.65	111.71
1	dp	119	THR	CA-CB-OG1	6.04	118.65	109.60
1	dq	155	GLN	CG-CD-OE1	6.04	132.87	120.80
1	dI	170	LYS	N-CA-C	6.04	117.53	111.07
1	1n	74	ASN	CA-CB-CG	-6.04	106.56	112.60
1	eq	136	LEU	N-CA-C	6.04	117.86	111.28
1	er	30	LYS	N-CA-C	6.04	120.80	113.38
1	er	78	ALA	N-CA-C	6.04	117.86	111.28
1	es	111	LEU	CA-C-O	6.04	127.68	120.92
1	eB	62	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	eC	168	PHE	O-C-N	-6.04	115.27	122.15
1	eS	102	SER	O-C-N	-6.04	115.16	122.22
1	eX	105	ALA	CA-C-O	6.04	126.91	119.97
1	eZ	167	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	fb	155	GLN	CA-C-O	6.04	126.82	120.36
1	fe	155	GLN	CA-C-N	6.04	131.34	121.87
1	fe	155	GLN	C-N-CA	6.04	131.34	121.87
1	1A	76	GLU	N-CA-C	6.04	117.86	111.28
1	g4	47	ALA	N-CA-C	6.04	118.98	110.23
1	p	87	HIS	ND1-CE1-NE2	6.04	114.44	108.40
1	2	105	ALA	CA-C-O	6.04	126.36	119.18
1	2	139	ASN	CA-C-O	-6.04	114.44	120.90
1	w	36	VAL	N-CA-C	6.04	116.78	110.62
1	z	107	THR	N-CA-C	-6.04	104.78	111.36
1	H	101	GLY	CA-C-O	6.04	126.97	120.75
1	4	97	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
1	R	200	THR	CA-C-N	6.04	128.73	120.46
1	R	200	THR	C-N-CA	6.04	128.73	120.46
1	gb	195	ASN	CA-C-O	-6.03	115.17	120.60
1	gc	173	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	gm	156	GLY	O-C-N	-6.03	115.74	121.77
1	h6	139	ASN	OD1-CG-ND2	6.03	128.63	122.60
1	hg	185	MET	CA-C-N	6.03	128.86	120.29
1	hg	185	MET	C-N-CA	6.03	128.86	120.29
1	hm	62	HIS	N-CA-C	6.03	119.97	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hD	20	LEU	O-C-N	-6.03	115.86	122.07
1	hN	5	ASN	N-CA-C	-6.03	105.96	113.38
1	1M	143	ARG	N-CA-C	6.03	118.82	111.82
1	id	52	LEU	N-CA-C	6.03	117.86	111.28
1	in	133	TRP	N-CA-C	6.03	117.86	111.28
1	1P	135	ILE	CA-C-N	6.03	128.37	120.28
1	1P	135	ILE	C-N-CA	6.03	128.37	120.28
1	ir	146	SER	O-C-N	-6.03	114.89	121.53
1	iD	86	VAL	CA-CB-CG1	6.03	120.66	110.40
1	jb	195	ASN	CA-C-O	-6.03	114.12	120.70
1	jt	199	LYS	CA-C-N	6.03	128.37	120.28
1	jt	199	LYS	C-N-CA	6.03	128.37	120.28
1	jv	179	GLN	OE1-CD-NE2	6.03	128.63	122.60
1	jB	187	GLU	O-C-N	-6.03	115.27	122.15
1	jR	189	LEU	CB-CA-C	-6.03	101.41	110.88
1	k0	120	HIS	N-CA-C	6.03	117.83	110.41
1	l4	74	ASN	N-CA-C	6.03	117.86	111.28
1	lq	151	LEU	N-CA-C	6.03	119.90	112.54
1	lt	35	GLU	N-CA-C	6.03	123.65	110.80
1	lC	210	THR	O-C-N	-6.03	116.18	122.94
1	lH	186	THR	CA-CB-CG2	6.03	120.76	110.50
1	2g	129	ILE	CB-CA-C	-6.03	104.00	112.14
1	2w	168	PHE	CA-CB-CG	-6.03	107.77	113.80
1	2A	82	ARG	CA-C-N	6.03	128.28	120.44
1	2A	82	ARG	C-N-CA	6.03	128.28	120.44
1	2C	199	LYS	N-CA-C	6.03	117.53	111.07
1	2F	45	GLU	N-CA-C	6.03	118.95	109.96
1	2Z	199	LYS	CA-C-N	6.03	128.37	120.28
1	2Z	199	LYS	C-N-CA	6.03	128.37	120.28
1	3o	121	ASN	N-CA-C	6.03	119.23	109.15
1	3t	157	PRO	N-CA-CB	6.03	109.58	103.25
1	3u	69	LEU	CA-C-N	6.03	128.28	120.44
1	3u	69	LEU	C-N-CA	6.03	128.28	120.44
1	3v	165	VAL	CA-C-N	6.03	128.28	120.44
1	3v	165	VAL	C-N-CA	6.03	128.28	120.44
1	3y	161	PHE	CA-CB-CG	-6.03	107.77	113.80
1	3G	89	GLY	CA-C-N	6.03	127.38	119.84
1	3G	89	GLY	C-N-CA	6.03	127.38	119.84
1	3X	212	GLU	CB-CG-CD	-6.03	102.34	112.60
1	47	12	HIS	CB-CG-CD2	-6.03	123.36	131.20
1	4F	63	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	4T	98	GLU	CA-C-O	-6.03	114.86	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4X	92	GLU	CA-C-O	-6.03	112.49	118.34
1	51	129	ILE	N-CA-C	6.03	116.69	110.36
1	5d	5	ASN	O-C-N	-6.03	115.87	123.17
1	5g	15	ILE	N-CA-C	6.03	119.31	109.78
1	5h	220	GLY	N-CA-C	6.03	120.19	112.83
1	5K	67	GLN	CG-CD-NE2	6.03	125.45	116.40
1	5L	145	TYR	CA-CB-CG	-6.03	103.04	113.90
1	5N	24	VAL	N-CA-CB	6.03	117.61	110.55
1	6k	81	ASP	CB-CA-C	6.03	120.35	110.88
1	6t	163	ASP	CA-CB-CG	6.03	118.63	112.60
1	6y	15	ILE	N-CA-C	6.03	116.99	108.36
1	6y	182	LYS	N-CA-C	6.03	117.86	111.28
1	6D	69	LEU	CA-C-O	6.03	127.15	120.82
1	6E	121	ASN	CB-CA-C	-6.03	102.05	110.13
1	6F	208	ALA	CA-C-N	6.03	129.41	120.90
1	6F	208	ALA	C-N-CA	6.03	129.41	120.90
1	6J	160	PRO	N-CA-C	6.03	120.68	111.15
1	6Q	150	ILE	CA-C-O	6.03	126.77	120.25
1	6Q	163	ASP	O-C-N	-6.03	115.72	122.12
1	72	133	TRP	N-CA-C	6.03	118.63	111.33
1	79	17	PRO	CB-CA-C	-6.03	102.87	111.68
1	7a	150	ILE	CA-C-N	6.03	128.69	120.54
1	7a	150	ILE	C-N-CA	6.03	128.69	120.54
1	7j	78	ALA	CA-C-N	6.03	128.86	120.29
1	7j	78	ALA	C-N-CA	6.03	128.86	120.29
1	7A	197	ASP	CA-C-N	6.03	129.48	120.31
1	7A	197	ASP	C-N-CA	6.03	129.48	120.31
1	7F	202	LEU	CA-C-N	6.03	128.37	120.28
1	7F	202	LEU	C-N-CA	6.03	128.37	120.28
1	7M	123	PRO	N-CA-C	6.03	120.69	111.34
1	7R	104	ILE	N-CA-C	6.03	116.77	110.62
1	7X	82	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	85	162	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	8j	63	GLN	O-C-N	-6.03	114.13	122.46
1	8E	151	LEU	CA-C-O	6.03	126.94	120.24
1	8N	121	ASN	CB-CA-C	6.03	117.57	109.42
1	92	98	GLU	CA-C-N	6.03	125.97	119.76
1	92	98	GLU	C-N-CA	6.03	125.97	119.76
1	95	11	VAL	CA-CB-CG1	6.03	120.66	110.40
1	9E	120	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	9H	122	PRO	CA-C-N	6.03	126.05	119.90
1	9H	122	PRO	C-N-CA	6.03	126.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9L	3	VAL	CB-CA-C	6.03	119.81	110.28
1	9N	125	PRO	CA-C-N	6.03	128.73	120.46
1	9N	125	PRO	C-N-CA	6.03	128.73	120.46
1	9N	208	ALA	N-CA-CB	-6.03	101.01	110.30
1	Y	169	TYR	N-CA-C	6.03	117.86	111.28
1	a1	1	PRO	N-CA-CB	-6.03	96.36	103.00
1	12	20	LEU	CA-C-N	6.03	128.28	120.44
1	12	20	LEU	C-N-CA	6.03	128.28	120.44
1	av	226	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	ax	74	ASN	OD1-CG-ND2	-6.03	116.57	122.60
1	aO	121	ASN	CB-CG-OD1	6.03	132.87	120.80
1	aQ	2	ILE	N-CA-C	6.03	117.27	108.58
1	aS	229	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	aT	120	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	18	181	VAL	O-C-N	-6.03	116.02	121.87
1	bE	103	ASP	N-CA-C	6.03	117.53	111.07
1	bS	166	ASP	O-C-N	-6.03	115.72	122.12
1	c5	154	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	ch	94	GLY	CA-C-O	-6.03	112.12	119.06
1	cj	115	ILE	N-CA-C	-6.03	104.11	112.50
1	ck	20	LEU	CA-C-O	-6.03	114.15	120.55
1	cr	210	THR	N-CA-CB	6.03	119.62	110.45
1	cs	181	VAL	CB-CA-C	-6.03	104.12	112.02
1	cN	144	MET	N-CA-C	-6.03	104.78	111.36
1	d2	120	HIS	N-CA-C	6.03	118.08	110.24
1	dh	97	ARG	N-CA-C	6.03	119.42	111.28
1	dy	214	MET	N-CA-C	6.03	117.94	111.36
1	dz	154	ARG	CG-CD-NE	-6.03	98.73	112.00
1	dA	203	LYS	CB-CG-CD	6.03	125.17	111.30
1	dG	225	GLY	O-C-N	6.03	128.93	122.41
1	dH	200	THR	CA-C-O	-6.03	113.28	120.10
1	dU	221	VAL	CA-C-O	-6.03	113.65	120.95
1	dZ	24	VAL	N-CA-C	6.03	116.77	110.62
1	e4	95	GLN	N-CA-C	6.03	119.72	111.39
1	eg	150	ILE	CA-C-O	6.03	127.33	119.85
1	eq	149	SER	CA-C-N	6.03	130.00	120.47
1	eq	149	SER	C-N-CA	6.03	130.00	120.47
1	er	162	ARG	O-C-N	6.03	128.52	122.12
1	f0	25	LYS	N-CA-C	6.03	117.94	111.36
1	fe	139	ASN	CA-CB-CG	6.03	118.63	112.60
1	fl	21	ASN	CA-C-N	6.03	130.78	121.19
1	fl	21	ASN	C-N-CA	6.03	130.78	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1x	209	ALA	N-CA-C	6.03	118.75	110.24
1	l	150	ILE	CA-C-N	6.03	128.37	120.28
1	l	150	ILE	C-N-CA	6.03	128.37	120.28
1	n	173	ARG	N-CA-C	6.03	118.65	111.71
1	C	72	THR	N-CA-CB	6.03	118.76	110.01
1	P	208	ALA	CA-C-N	6.03	129.68	121.05
1	P	208	ALA	C-N-CA	6.03	129.68	121.05
1	gm	118	MET	CG-SD-CE	-6.03	87.63	100.90
1	gn	110	THR	N-CA-CB	6.03	118.99	110.36
1	gP	230	VAL	O-C-N	-6.03	117.34	122.65
1	hk	50	GLN	CB-CA-C	6.03	120.80	110.79
1	iq	95	GLN	O-C-N	-6.03	114.63	122.77
1	1R	147	PRO	CB-CA-C	6.03	119.24	111.64
1	iL	167	ARG	NE-CZ-NH2	6.03	124.63	119.20
1	j8	162	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	jf	136	LEU	N-CA-C	6.03	118.35	111.11
1	jZ	87	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	kq	39	MET	CA-C-O	6.03	127.14	120.63
1	kI	103	ASP	CA-CB-CG	-6.03	106.57	112.60
1	l6	97	ARG	N-CA-CB	6.03	118.94	109.83
1	lc	5	ASN	CA-CB-CG	-6.03	106.57	112.60
1	lf	76	GLU	O-C-N	-6.03	115.58	122.09
1	2c	172	LEU	N-CA-C	6.03	117.86	111.28
1	2M	16	SER	CB-CA-C	6.03	118.89	109.42
1	31	14	ALA	O-C-N	-6.03	116.14	122.96
1	3a	46	GLY	CA-C-N	6.03	130.47	121.72
1	3a	46	GLY	C-N-CA	6.03	130.47	121.72
1	3t	5	ASN	CA-CB-CG	-6.03	106.57	112.60
1	3u	162	ARG	NE-CZ-NH2	-6.03	113.77	119.20
1	3N	221	VAL	N-CA-C	6.03	121.89	109.34
1	48	105	ALA	O-C-N	-6.03	114.61	122.39
1	4f	98	GLU	CA-C-N	6.03	126.39	119.93
1	4f	98	GLU	C-N-CA	6.03	126.39	119.93
1	4k	152	ASP	CB-CA-C	6.03	121.11	110.37
1	4R	111	LEU	N-CA-C	6.03	118.63	111.33
1	50	99	PRO	CB-CA-C	-6.03	104.04	111.64
1	57	30	LYS	N-CA-C	6.03	121.69	113.97
1	5f	2	ILE	CA-C-N	6.03	130.15	122.37
1	5f	2	ILE	C-N-CA	6.03	130.15	122.37
1	5y	11	VAL	CA-C-O	6.03	127.42	120.67
1	5O	178	SER	CA-C-N	6.03	128.64	120.38
1	5O	178	SER	C-N-CA	6.03	128.64	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6o	223	GLY	O-C-N	-6.03	115.74	121.77
1	6p	121	ASN	CA-CB-CG	-6.03	106.57	112.60
1	6r	229	ARG	CA-C-N	6.03	129.18	120.98
1	6r	229	ARG	C-N-CA	6.03	129.18	120.98
1	6G	181	VAL	N-CA-C	6.03	116.77	110.62
1	7p	24	VAL	CA-C-N	6.03	128.86	120.29
1	7p	24	VAL	C-N-CA	6.03	128.86	120.29
1	7Q	29	GLU	N-CA-C	-6.03	105.83	113.43
1	83	172	LEU	N-CA-C	6.03	117.86	111.28
1	84	37	ILE	CA-C-O	-6.03	113.72	118.85
1	8l	135	ILE	CA-C-N	6.03	128.28	120.44
1	8l	135	ILE	C-N-CA	6.03	128.28	120.44
1	8w	131	LYS	O-C-N	-6.03	115.73	122.12
1	9g	159	GLU	CA-C-N	6.03	126.00	120.03
1	9g	159	GLU	C-N-CA	6.03	126.00	120.03
1	9D	171	THR	N-CA-CB	6.03	118.76	110.01
1	bS	210	THR	CA-C-N	6.03	128.97	120.28
1	bS	210	THR	C-N-CA	6.03	128.97	120.28
1	bV	135	ILE	N-CA-CB	6.03	117.61	110.55
1	c2	100	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	ct	53	ASN	CA-C-N	6.03	128.64	120.44
1	ct	53	ASN	C-N-CA	6.03	128.64	120.44
1	cy	95	GLN	N-CA-CB	6.03	120.26	110.43
1	cA	33	SER	CA-C-N	6.03	125.92	119.28
1	cA	33	SER	C-N-CA	6.03	125.92	119.28
1	cB	48	THR	N-CA-CB	-6.03	102.67	109.49
1	cB	80	TRP	CB-CG-CD2	6.03	135.24	126.80
1	da	122	PRO	CA-C-N	6.03	127.38	119.84
1	da	122	PRO	C-N-CA	6.03	127.38	119.84
1	dJ	226	HIS	N-CA-C	6.03	118.82	111.82
1	dV	18	ARG	CA-C-N	6.03	128.36	120.28
1	dV	18	ARG	C-N-CA	6.03	128.36	120.28
1	ef	226	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	1u	103	ASP	O-C-N	-6.03	115.58	122.09
1	f8	135	ILE	CA-C-N	6.03	128.28	120.44
1	f8	135	ILE	C-N-CA	6.03	128.28	120.44
1	f8	228	ALA	N-CA-C	6.03	119.35	110.30
1	fi	170	LYS	O-C-N	-6.03	115.73	122.12
1	ft	127	GLY	CA-C-N	6.03	128.28	120.44
1	ft	127	GLY	C-N-CA	6.03	128.28	120.44
1	fA	177	ALA	CB-CA-C	6.03	119.41	109.70
1	fG	145	TYR	CA-C-N	6.03	128.85	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fG	145	TYR	C-N-CA	6.03	128.85	120.65
1	1A	104	ILE	O-C-N	-6.03	115.98	121.89
1	c	36	VAL	O-C-N	-6.03	116.00	121.91
1	t	41	SER	O-C-N	-6.03	115.58	122.09
1	gb	15	ILE	CA-C-N	6.03	130.94	121.17
1	gb	15	ILE	C-N-CA	6.03	130.94	121.17
1	gz	187	GLU	N-CA-C	6.03	117.85	111.28
1	gN	24	VAL	N-CA-CB	6.03	119.63	110.58
1	gO	190	LEU	CA-C-O	6.03	126.94	120.55
1	gR	203	LYS	O-C-N	-6.03	115.73	122.12
1	gV	199	LYS	N-CA-C	6.03	117.85	111.28
1	gZ	167	ARG	NE-CZ-NH2	6.03	124.63	119.20
1	h0	25	LYS	CA-CB-CG	6.03	126.16	114.10
1	h4	72	THR	O-C-N	-6.03	115.28	122.15
1	ha	90	PRO	N-CA-CB	-6.03	97.80	103.17
1	hp	170	LYS	N-CA-CB	6.03	119.63	110.28
1	hy	100	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	hG	87	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	1L	143	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	hM	129	ILE	O-C-N	-6.03	115.45	121.96
1	hW	33	SER	N-CA-C	-6.03	101.20	108.14
1	i2	206	GLY	CA-C-N	6.03	125.74	119.05
1	i2	206	GLY	C-N-CA	6.03	125.74	119.05
1	iv	150	ILE	O-C-N	-6.03	114.75	122.17
1	iS	14	ALA	N-CA-C	6.03	118.55	110.35
1	j3	18	ARG	N-CA-C	6.03	117.93	111.36
1	jp	12	HIS	CA-C-N	6.03	133.21	121.63
1	jp	12	HIS	C-N-CA	6.03	133.21	121.63
1	jz	87	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	jO	229	ARG	CA-C-O	6.03	127.35	120.90
1	k0	112	GLN	N-CA-C	6.03	118.64	111.71
1	k1	110	THR	CA-C-N	6.03	128.68	120.54
1	k1	110	THR	C-N-CA	6.03	128.68	120.54
1	k1	188	THR	O-C-N	-6.03	114.41	122.49
1	k2	42	ALA	N-CA-CB	-6.03	101.25	110.12
1	k9	84	HIS	CB-CG-ND1	-6.03	113.65	122.70
1	22	161	PHE	CB-CA-C	6.03	120.80	110.79
1	l2	66	MET	N-CA-C	6.03	117.85	111.28
1	l8	96	MET	N-CA-CB	6.03	120.68	110.49
1	li	172	LEU	N-CA-C	6.03	117.85	111.28
1	lq	142	VAL	CA-C-N	6.03	128.68	120.54
1	lq	142	VAL	C-N-CA	6.03	128.68	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lr	40	PHE	O-C-N	-6.03	115.73	122.12
1	lw	66	MET	N-CA-C	6.03	117.52	111.07
1	lE	21	ASN	N-CA-C	6.03	117.85	111.28
1	lN	131	LYS	CA-C-N	6.03	128.64	120.38
1	lN	131	LYS	C-N-CA	6.03	128.64	120.38
1	2g	59	VAL	CA-C-N	6.03	133.23	121.41
1	2g	59	VAL	C-N-CA	6.03	133.23	121.41
1	2n	57	ASN	CA-C-N	6.03	128.28	120.44
1	2n	57	ASN	C-N-CA	6.03	128.28	120.44
1	2Q	211	LEU	O-C-N	-6.03	115.73	122.12
1	36	184	TRP	O-C-N	-6.03	115.82	122.09
1	3a	90	PRO	N-CA-C	6.03	124.89	112.47
1	3l	121	ASN	O-C-N	-6.03	113.68	121.10
1	3n	145	TYR	CB-CG-CD2	6.03	129.84	120.80
1	3n	219	GLN	CA-C-O	6.03	126.36	119.18
1	3q	136	LEU	CB-CA-C	6.03	120.35	110.88
1	3P	16	SER	N-CA-CB	-6.03	100.16	110.11
1	3Z	204	ALA	N-CA-C	6.03	117.85	111.28
1	4x	129	ILE	N-CA-C	6.03	116.21	110.42
1	4I	16	SER	CA-C-N	6.03	127.38	119.84
1	4I	16	SER	C-N-CA	6.03	127.38	119.84
1	5b	48	THR	CA-CB-OG1	6.03	118.64	109.60
1	5m	217	ALA	N-CA-CB	-6.03	101.11	109.97
1	5y	163	ASP	CA-CB-CG	-6.03	106.57	112.60
1	5z	167	ARG	N-CA-CB	6.03	119.18	110.20
1	5z	225	GLY	N-CA-C	-6.03	105.54	112.29
1	5P	194	ALA	N-CA-CB	6.03	118.91	110.04
1	68	71	GLU	N-CA-C	6.03	117.52	111.07
1	69	22	ALA	O-C-N	-6.03	115.73	122.12
1	6m	82	ARG	NE-CZ-NH2	-6.03	113.77	119.20
1	6I	206	GLY	O-C-N	-6.03	115.74	121.77
1	6T	215	MET	CA-C-N	6.03	128.36	120.28
1	6T	215	MET	C-N-CA	6.03	128.36	120.28
1	6W	136	LEU	CA-C-N	6.03	127.88	120.22
1	6W	136	LEU	C-N-CA	6.03	127.88	120.22
1	7j	124	ILE	N-CA-C	-6.03	101.58	107.55
1	7R	20	LEU	CA-C-N	6.03	128.36	120.28
1	7R	20	LEU	C-N-CA	6.03	128.36	120.28
1	86	69	LEU	O-C-N	-6.03	115.73	122.12
1	8k	20	LEU	CA-C-O	6.03	127.15	120.82
1	8k	137	GLY	N-CA-C	6.03	119.50	112.50
1	8w	183	ASN	N-CA-C	6.03	117.93	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8A	107	THR	CA-C-N	6.03	132.01	122.60
1	8A	107	THR	C-N-CA	6.03	132.01	122.60
1	8P	167	ARG	N-CA-C	6.03	117.85	111.28
1	8Q	187	GLU	N-CA-C	6.03	117.52	111.07
1	8U	68	MET	CA-C-O	6.03	126.81	120.42
1	8V	5	ASN	O-C-N	-6.03	115.98	122.85
1	95	16	SER	CA-C-N	6.03	125.73	119.64
1	95	16	SER	C-N-CA	6.03	125.73	119.64
1	9c	17	PRO	CA-C-N	6.03	128.36	120.28
1	9c	17	PRO	C-N-CA	6.03	128.36	120.28
1	9m	173	ARG	CD-NE-CZ	-6.03	115.96	124.40
1	9L	226	HIS	CA-C-N	6.03	129.32	120.82
1	9L	226	HIS	C-N-CA	6.03	129.32	120.82
1	9M	170	LYS	O-C-N	-6.03	115.17	122.22
1	9R	26	VAL	O-C-N	-6.03	115.62	121.83
1	9Z	17	PRO	CA-C-N	6.03	128.36	120.28
1	9Z	17	PRO	C-N-CA	6.03	128.36	120.28
1	Z	202	LEU	N-CA-C	6.03	117.85	111.28
1	ag	35	GLU	N-CA-C	6.03	118.65	111.71
1	aj	37	ILE	CA-C-N	6.03	125.74	119.05
1	aj	37	ILE	C-N-CA	6.03	125.74	119.05
1	ao	134	ILE	CA-C-O	-6.03	115.00	121.27
1	aq	35	GLU	N-CA-C	6.03	120.25	113.01
1	au	81	ASP	N-CA-C	6.03	117.85	111.28
1	aA	40	PHE	CA-CB-CG	-6.03	107.77	113.80
1	aJ	27	VAL	CA-CB-CG2	6.03	120.65	110.40
1	aJ	102	SER	N-CA-C	6.03	120.37	112.89
1	aM	103	ASP	CA-C-N	6.03	130.00	120.47
1	aM	103	ASP	C-N-CA	6.03	130.00	120.47
1	15	66	MET	O-C-N	-6.03	115.28	122.15
1	aZ	67	GLN	CA-C-N	6.03	128.85	120.29
1	aZ	67	GLN	C-N-CA	6.03	128.85	120.29
1	b2	57	ASN	CA-CB-CG	-6.03	106.57	112.60
1	bf	219	GLN	N-CA-C	6.03	118.02	108.67
1	bp	10	MET	O-C-N	-6.03	116.35	123.22
1	bu	63	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	bw	50	GLN	O-C-N	-6.03	115.73	122.12
1	bw	191	VAL	N-CA-C	-6.03	104.43	111.00
1	bx	154	ARG	NE-CZ-NH2	-6.03	113.77	119.20
1	by	179	GLN	CA-C-O	6.03	126.94	120.55
1	bF	120	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	bJ	226	HIS	CE1-NE2-CD2	-6.03	102.97	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1a	121	ASN	CB-CA-C	6.03	118.21	110.13
1	bY	75	GLU	CB-CG-CD	-6.03	102.35	112.60
1	cm	206	GLY	CA-C-N	6.03	127.38	119.84
1	cm	206	GLY	C-N-CA	6.03	127.38	119.84
1	cr	74	ASN	CA-C-O	6.03	126.94	120.55
1	1f	25	LYS	O-C-N	-6.03	115.73	122.12
1	cK	203	LYS	N-CA-C	6.03	117.85	111.28
1	cQ	222	GLY	CA-C-O	-6.03	116.99	122.24
1	cS	135	ILE	O-C-N	-6.03	116.02	121.87
1	da	73	ILE	CA-C-O	-6.03	114.78	121.17
1	do	43	LEU	O-C-N	-6.03	114.14	122.46
1	dx	196	PRO	N-CA-C	6.03	121.48	113.40
1	dy	176	GLN	N-CA-C	-6.03	104.56	113.61
1	dM	132	ARG	O-C-N	6.03	128.28	122.07
1	dN	107	THR	CB-CA-C	-6.03	99.09	110.67
1	dO	226	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	dR	161	PHE	CA-CB-CG	6.03	119.83	113.80
1	dW	121	ASN	CA-CB-CG	-6.03	106.57	112.60
1	ei	16	SER	CA-C-N	6.03	126.47	119.47
1	ei	16	SER	C-N-CA	6.03	126.47	119.47
1	ev	189	LEU	N-CA-C	6.03	117.85	111.28
1	ex	18	ARG	CA-C-N	6.03	128.36	120.28
1	ex	18	ARG	C-N-CA	6.03	128.36	120.28
1	eB	219	GLN	CA-C-O	6.03	126.03	119.15
1	eZ	188	THR	CA-C-N	6.03	128.64	120.38
1	eZ	188	THR	C-N-CA	6.03	128.64	120.38
1	1w	194	ALA	O-C-N	-6.03	115.29	122.65
1	fq	154	ARG	NE-CZ-NH2	6.03	124.63	119.20
1	ft	12	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	fy	161	PHE	CA-C-N	6.03	128.64	120.38
1	fy	161	PHE	C-N-CA	6.03	128.64	120.38
1	fR	133	TRP	CB-CG-CD1	6.03	135.95	126.90
1	fU	198	CYS	CA-C-N	6.03	128.28	120.44
1	fU	198	CYS	C-N-CA	6.03	128.28	120.44
1	0	76	GLU	CA-C-N	6.03	128.28	120.44
1	0	76	GLU	C-N-CA	6.03	128.28	120.44
1	c	123	PRO	CB-CA-C	-6.03	101.40	110.20
1	f	160	PRO	N-CA-CB	6.03	109.58	103.25
1	A	147	PRO	N-CA-CB	6.03	109.58	103.25
1	C	7	GLN	CA-C-O	6.03	128.06	121.06
1	E	59	VAL	CA-C-N	6.03	127.94	120.34
1	E	59	VAL	C-N-CA	6.03	127.94	120.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	105	ALA	CA-C-O	6.03	126.89	119.05
1	P	146	SER	O-C-N	-6.03	116.44	121.38
1	5	21	ASN	CA-C-O	6.03	127.14	120.63
1	gj	97	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
1	1D	88	ALA	N-CA-C	6.03	123.64	110.80
1	gU	146	SER	CA-C-N	6.03	126.34	119.83
1	gU	146	SER	C-N-CA	6.03	126.34	119.83
1	1H	170	LYS	N-CA-C	6.03	118.34	111.11
1	1N	80	TRP	CE2-CD2-CE3	6.03	124.83	118.80
1	ic	62	HIS	ND1-CG-CD2	6.03	112.13	106.10
1	ip	90	PRO	N-CA-C	6.03	120.68	111.15
1	iC	201	ILE	O-C-N	-6.03	116.00	121.91
1	jf	137	GLY	O-C-N	-6.03	116.40	122.19
1	js	163	ASP	CA-C-O	6.03	126.94	120.55
1	jv	42	ALA	CA-C-N	6.03	128.64	120.38
1	jv	42	ALA	C-N-CA	6.03	128.64	120.38
1	1W	154	ARG	N-CA-C	-6.03	99.52	108.99
1	jw	74	ASN	CA-C-O	-6.03	114.16	120.55
1	kx	121	ASN	CB-CA-C	6.03	119.06	110.02
1	kG	50	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	kS	162	ARG	O-C-N	-6.03	115.73	122.12
1	l4	45	GLU	N-CA-C	6.03	119.20	110.28
1	ld	203	LYS	N-CA-C	-6.03	105.18	112.54
1	lu	45	GLU	O-C-N	-6.03	115.73	122.12
1	2B	217	ALA	N-CA-C	6.03	118.55	110.35
1	2K	16	SER	N-CA-C	6.03	117.49	109.83
1	3c	103	ASP	N-CA-C	6.03	117.52	111.07
1	3m	129	ILE	O-C-N	6.03	127.72	121.87
1	3F	212	GLU	O-C-N	-6.03	115.73	122.12
1	3M	162	ARG	CA-C-N	6.03	128.36	120.28
1	3M	162	ARG	C-N-CA	6.03	128.36	120.28
1	4E	228	ALA	N-CA-C	6.03	119.94	112.59
1	4F	179	GLN	O-C-N	6.03	129.04	122.11
1	54	223	GLY	CA-C-N	6.03	127.38	119.84
1	54	223	GLY	C-N-CA	6.03	127.38	119.84
1	55	125	PRO	CA-C-N	6.03	130.00	120.47
1	55	125	PRO	C-N-CA	6.03	130.00	120.47
1	5c	115	ILE	O-C-N	-6.03	116.02	121.87
1	5j	182	LYS	O-C-N	-6.03	115.73	122.12
1	5E	4	GLN	O-C-N	-6.03	115.52	122.93
1	7k	78	ALA	N-CA-C	6.03	117.85	111.28
1	7n	163	ASP	CA-C-O	6.03	126.91	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	91	129	ILE	N-CA-C	6.03	116.77	110.62
1	9i	52	LEU	CA-C-N	6.03	128.28	120.44
1	9i	52	LEU	C-N-CA	6.03	128.28	120.44
1	9n	198	CYS	N-CA-C	6.03	118.34	111.11
1	aJ	146	SER	CA-C-N	6.03	126.55	120.04
1	aJ	146	SER	C-N-CA	6.03	126.55	120.04
1	14	151	LEU	CA-C-O	6.03	126.90	119.97
1	bm	124	ILE	N-CA-CB	6.03	119.65	111.21
1	bB	209	ALA	CA-C-O	6.03	126.98	120.95
1	1d	48	THR	N-CA-CB	6.03	118.44	109.88
1	1g	121	ASN	CA-CB-CG	-6.03	106.57	112.60
1	dc	162	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	dk	139	ASN	CA-C-N	6.03	128.36	120.28
1	dk	139	ASN	C-N-CA	6.03	128.36	120.28
1	dA	91	ILE	CA-C-O	6.03	128.53	120.69
1	dL	165	VAL	N-CA-C	6.03	116.21	110.42
1	dS	4	GLN	O-C-N	-6.03	115.53	122.89
1	e0	62	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	e7	104	ILE	O-C-N	6.03	128.17	121.90
1	eQ	80	TRP	CA-C-N	6.03	128.85	120.29
1	eQ	80	TRP	C-N-CA	6.03	128.85	120.29
1	fE	205	LEU	CA-C-O	6.03	126.91	120.10
1	b	103	ASP	CA-C-N	6.03	128.98	120.42
1	b	103	ASP	C-N-CA	6.03	128.98	120.42
1	u	84	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	3	175	GLU	CA-C-N	6.03	130.72	122.34
1	3	175	GLU	C-N-CA	6.03	130.72	122.34
1	R	154	ARG	CA-C-O	-6.03	114.76	121.51
1	5	211	LEU	CA-C-O	6.03	127.14	120.63
1	8	76	GLU	N-CA-CB	6.03	118.75	110.01
1	gt	131	LYS	CA-C-N	6.03	128.36	120.28
1	gt	131	LYS	C-N-CA	6.03	128.36	120.28
1	gv	67	GLN	O-C-N	-6.03	115.73	122.12
1	gG	125	PRO	N-CA-CB	-6.03	97.76	102.28
1	gG	167	ARG	O-C-N	-6.03	115.86	122.07
1	gG	188	THR	CA-C-N	6.03	128.36	120.28
1	gG	188	THR	C-N-CA	6.03	128.36	120.28
1	gQ	195	ASN	N-CA-C	6.03	117.30	109.64
1	ha	17	PRO	CA-C-N	6.03	128.28	120.44
1	ha	17	PRO	C-N-CA	6.03	128.28	120.44
1	ho	75	GLU	N-CA-C	6.03	117.93	111.36
1	1J	212	GLU	N-CA-C	6.03	117.85	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i8	106	GLY	CA-C-N	6.03	128.28	120.44
1	i8	106	GLY	C-N-CA	6.03	128.28	120.44
1	i8	138	LEU	N-CA-C	6.03	117.52	111.07
1	ih	208	ALA	CA-C-O	6.03	129.61	122.14
1	im	127	GLY	CA-C-O	6.03	126.61	119.50
1	iw	230	VAL	O-C-N	-6.03	115.84	122.83
1	iE	136	LEU	CA-C-N	6.03	127.94	120.34
1	iE	136	LEU	C-N-CA	6.03	127.94	120.34
1	1R	173	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	iL	84	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	iO	40	PHE	CA-C-O	-6.03	114.49	120.82
1	j3	26	VAL	CB-CA-C	6.03	119.69	111.97
1	j7	208	ALA	O-C-N	-6.03	114.58	122.59
1	1V	124	ILE	N-CA-C	6.03	114.05	107.60
1	jp	206	GLY	O-C-N	-6.03	115.74	121.77
1	jE	91	ILE	N-CA-CB	6.03	118.21	110.13
1	jM	142	VAL	N-CA-C	6.03	116.20	110.53
1	jN	136	LEU	CA-C-N	6.03	126.63	119.94
1	jN	136	LEU	C-N-CA	6.03	126.63	119.94
1	kI	192	GLN	O-C-N	-6.03	115.73	122.12
1	kX	25	LYS	CA-C-N	6.03	128.15	120.56
1	kX	25	LYS	C-N-CA	6.03	128.15	120.56
1	lj	136	LEU	CA-C-N	6.03	126.51	119.94
1	lj	136	LEU	C-N-CA	6.03	126.51	119.94
1	lz	168	PHE	N-CA-CB	-6.03	101.27	110.01
1	2b	54	THR	CA-C-O	-6.03	114.45	120.90
1	2c	98	GLU	N-CA-C	6.03	117.49	109.83
1	2i	154	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	2j	174	ALA	N-CA-CB	-6.03	100.20	110.33
1	3m	9	GLN	O-C-N	-6.03	114.09	122.41
1	3D	74	ASN	N-CA-C	6.03	117.85	111.28
1	3D	223	GLY	O-C-N	-6.03	115.74	121.77
1	3Z	160	PRO	CB-CA-C	6.03	118.90	111.12
1	46	141	ILE	O-C-N	-6.03	115.62	121.83
1	4c	203	LYS	CA-C-O	-6.03	114.16	120.55
1	4M	123	PRO	CB-CA-C	6.03	119.22	111.56
1	4S	24	VAL	O-C-N	-6.03	116.02	121.87
1	4U	81	ASP	CA-CB-CG	6.03	118.63	112.60
1	4Y	128	GLU	CA-C-O	6.03	126.81	120.42
1	5i	41	SER	N-CA-C	6.03	117.52	111.07
1	5F	18	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	5H	121	ASN	O-C-N	-6.03	115.59	121.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5T	117	TRP	N-CA-C	6.03	118.62	111.33
1	5Z	50	GLN	CA-C-N	6.03	128.36	120.28
1	5Z	50	GLN	C-N-CA	6.03	128.36	120.28
1	69	120	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	6p	55	MET	CG-SD-CE	-6.03	87.64	100.90
1	6J	92	GLU	CA-CB-CG	-6.03	102.05	114.10
1	6P	201	ILE	N-CA-CB	6.03	118.29	110.57
1	6S	170	LYS	O-C-N	-6.03	115.86	122.07
1	73	64	ALA	N-CA-C	6.03	117.85	111.28
1	7a	20	LEU	N-CA-C	6.03	117.85	111.28
1	7S	87	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	7T	30	LYS	N-CA-CB	-6.03	102.29	110.67
1	7Y	194	ALA	CA-C-O	6.03	128.13	121.56
1	81	14	ALA	CA-C-O	6.03	128.40	121.47
1	85	114	GLN	CA-C-N	6.03	128.15	120.56
1	85	114	GLN	C-N-CA	6.03	128.15	120.56
1	8c	209	ALA	N-CA-C	6.03	118.79	110.35
1	8m	220	GLY	CA-C-O	6.03	127.09	119.80
1	8n	68	MET	CB-CA-C	6.03	120.34	110.88
1	8t	57	ASN	CA-CB-CG	-6.03	106.57	112.60
1	8B	99	PRO	CA-C-O	-6.03	114.94	121.27
1	8P	12	HIS	CA-CB-CG	6.03	119.83	113.80
1	8P	226	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	8U	209	ALA	N-CA-C	6.03	119.00	109.96
1	92	223	GLY	CA-C-N	6.03	127.37	119.84
1	92	223	GLY	C-N-CA	6.03	127.37	119.84
1	99	135	ILE	CB-CA-C	6.03	119.59	111.88
1	9n	102	SER	N-CA-C	6.03	118.62	111.33
1	9o	104	ILE	N-CA-CB	6.03	118.74	110.54
1	9y	183	ASN	O-C-N	-6.03	115.17	122.22
1	9E	111	LEU	N-CA-C	6.03	118.62	111.33
1	9I	19	THR	CA-C-O	-6.03	114.03	120.42
1	9O	25	LYS	CA-C-N	6.03	128.72	120.46
1	9O	25	LYS	C-N-CA	6.03	128.72	120.46
1	a5	195	ASN	CA-C-N	6.03	126.46	119.47
1	a5	195	ASN	C-N-CA	6.03	126.46	119.47
1	ag	12	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	am	225	GLY	O-C-N	-6.03	115.85	122.24
1	ao	223	GLY	CA-C-N	6.03	127.38	119.84
1	ao	223	GLY	C-N-CA	6.03	127.38	119.84
1	ar	172	LEU	CA-C-O	6.03	126.94	120.55
1	aI	56	LEU	CA-C-O	6.03	127.15	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aP	102	SER	CA-C-N	-6.03	112.20	120.28
1	aP	102	SER	C-N-CA	-6.03	112.20	120.28
1	aZ	120	HIS	CA-C-O	6.03	128.50	121.87
1	b6	131	LYS	CA-C-N	6.03	128.36	120.28
1	b6	131	LYS	C-N-CA	6.03	128.36	120.28
1	b7	136	LEU	O-C-N	-6.03	115.73	122.12
1	ba	54	THR	CA-C-N	6.03	128.64	120.44
1	ba	54	THR	C-N-CA	6.03	128.64	120.44
1	ba	162	ARG	N-CA-CB	6.03	118.75	110.01
1	bc	147	PRO	CA-C-O	-6.03	114.42	121.95
1	bx	139	ASN	CA-C-N	6.03	128.36	120.28
1	bx	139	ASN	C-N-CA	6.03	128.36	120.28
1	c4	8	GLY	O-C-N	-6.03	115.13	122.30
1	cd	180	GLU	CB-CA-C	-6.03	101.17	110.81
1	cj	139	ASN	OD1-CG-ND2	-6.03	116.57	122.60
1	cm	166	ASP	N-CA-CB	-6.03	101.27	110.01
1	cA	13	GLN	OE1-CD-NE2	-6.03	116.57	122.60
1	cM	159	GLU	CA-C-O	-6.03	114.30	119.36
1	cR	12	HIS	CA-C-N	6.03	132.02	122.74
1	cR	12	HIS	C-N-CA	6.03	132.02	122.74
1	1i	87	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	d9	124	ILE	CA-C-O	-6.03	113.83	119.62
1	1k	50	GLN	CA-C-N	6.03	128.64	120.44
1	1k	50	GLN	C-N-CA	6.03	128.64	120.44
1	dp	143	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	dx	154	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	1l	215	MET	CG-SD-CE	-6.03	87.64	100.90
1	dK	64	ALA	CA-C-O	-6.03	114.03	120.42
1	dP	149	SER	N-CA-C	6.03	119.10	110.24
1	dP	158	LYS	CA-C-N	6.03	129.82	120.60
1	dP	158	LYS	C-N-CA	6.03	129.82	120.60
1	es	129	ILE	CB-CA-C	-6.03	104.25	111.97
1	ev	208	ALA	CA-C-N	6.03	129.40	120.90
1	ev	208	ALA	C-N-CA	6.03	129.40	120.90
1	eC	165	VAL	N-CA-CB	6.03	119.62	110.58
1	eF	116	GLY	CA-C-N	6.03	128.36	120.28
1	eF	116	GLY	C-N-CA	6.03	128.36	120.28
1	eG	82	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	eL	5	ASN	CA-CB-CG	6.03	118.63	112.60
1	eT	9	GLN	N-CA-CB	-6.03	101.49	110.17
1	f4	37	ILE	CA-C-N	6.03	125.91	119.28
1	f4	37	ILE	C-N-CA	6.03	125.91	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1v	7	GLN	O-C-N	-6.03	115.28	122.27
1	fb	118	MET	O-C-N	-6.03	114.35	122.43
1	fn	87	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	fn	128	GLU	O-C-N	6.03	128.36	122.09
1	fG	85	PRO	CB-CA-C	6.03	118.89	111.12
1	fN	167	ARG	CA-C-O	6.03	126.94	120.55
1	g0	62	HIS	ND1-CE1-NE2	6.03	114.43	108.40
1	h	138	LEU	O-C-N	-6.03	115.73	122.12
1	o	46	GLY	CA-C-N	6.03	131.04	122.72
1	o	46	GLY	C-N-CA	6.03	131.04	122.72
1	C	131	LYS	CA-C-N	6.03	128.28	120.44
1	C	131	LYS	C-N-CA	6.03	128.28	120.44
1	1C	172	LEU	CB-CA-C	-6.03	100.61	110.85
1	gj	105	ALA	CA-C-O	6.03	126.90	119.97
1	gt	134	ILE	O-C-N	-6.03	116.00	121.91
1	gM	228	ALA	CA-C-N	6.03	129.85	120.75
1	gM	228	ALA	C-N-CA	6.03	129.85	120.75
1	gN	113	GLU	O-C-N	6.03	128.51	122.12
1	i8	62	HIS	CB-CG-CD2	-6.03	123.37	131.20
1	ig	139	ASN	CA-CB-CG	6.03	118.62	112.60
1	ij	64	ALA	CA-C-O	6.03	127.35	120.90
1	iw	226	HIS	CG-CD2-NE2	6.03	113.23	107.20
1	iF	100	ARG	O-C-N	-6.03	116.22	123.03
1	iN	74	ASN	O-C-N	-6.03	115.82	122.09
1	iQ	132	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	j5	45	GLU	N-CA-CB	6.03	118.83	109.85
1	j7	151	LEU	CA-C-N	6.03	129.47	120.31
1	j7	151	LEU	C-N-CA	6.03	129.47	120.31
1	1U	142	VAL	N-CA-C	6.03	118.58	111.05
1	jk	197	ASP	N-CA-C	6.03	117.52	111.07
1	jm	79	GLU	N-CA-C	6.03	117.85	111.28
1	jy	169	TYR	O-C-N	-6.03	115.73	122.12
1	jz	179	GLN	OE1-CD-NE2	-6.03	116.58	122.60
1	jH	178	SER	O-C-N	-6.03	115.89	123.12
1	jY	46	GLY	N-CA-C	6.03	123.36	115.47
1	k2	83	LEU	CA-C-N	6.03	128.74	120.67
1	k2	83	LEU	C-N-CA	6.03	128.74	120.67
1	k5	40	PHE	O-C-N	-6.03	115.73	122.12
1	kd	84	HIS	CA-C-N	6.03	126.05	119.90
1	kd	84	HIS	C-N-CA	6.03	126.05	119.90
1	kd	182	LYS	CA-C-N	6.03	128.27	120.44
1	kd	182	LYS	C-N-CA	6.03	128.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kw	12	HIS	CB-CG-ND1	6.03	131.74	122.70
1	kB	39	MET	CG-SD-CE	-6.03	87.64	100.90
1	kB	133	TRP	N-CA-C	6.03	117.52	111.07
1	kC	160	PRO	N-CA-CB	6.03	108.38	103.32
1	kH	32	PHE	CA-CB-CG	-6.03	107.78	113.80
1	lg	124	ILE	O-C-N	6.03	126.16	121.46
1	ln	194	ALA	CA-C-N	6.03	128.84	120.65
1	ln	194	ALA	C-N-CA	6.03	128.84	120.65
1	lr	103	ASP	CA-C-O	-6.03	114.16	120.55
1	lu	97	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	lJ	88	ALA	CA-C-N	6.03	131.33	121.87
1	lJ	88	ALA	C-N-CA	6.03	131.33	121.87
1	2m	73	ILE	CB-CA-C	-6.03	103.91	112.22
1	2v	219	GLN	N-CA-C	6.03	118.57	109.41
1	2L	108	THR	N-CA-CB	6.03	119.51	110.53
1	42	18	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	4z	199	LYS	CA-CB-CG	6.03	126.15	114.10
1	4Z	202	LEU	N-CA-C	6.03	117.85	111.28
1	54	211	LEU	O-C-N	-6.03	115.73	122.12
1	5f	127	GLY	CA-C-O	6.03	126.96	120.75
1	5u	154	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	5y	12	HIS	CB-CG-ND1	6.03	131.74	122.70
1	5M	120	HIS	CA-CB-CG	6.03	119.83	113.80
1	5M	173	ARG	O-C-N	-6.03	115.86	122.07
1	6I	83	LEU	CA-C-O	-6.03	114.10	120.55
1	6X	199	LYS	N-CA-CB	6.03	119.10	110.06
1	6Y	150	ILE	CA-C-N	6.03	129.18	120.38
1	6Y	150	ILE	C-N-CA	6.03	129.18	120.38
1	71	97	ARG	N-CA-CB	6.03	120.10	110.46
1	7a	150	ILE	O-C-N	-6.03	115.78	121.87
1	7b	112	GLN	CA-C-O	-6.03	114.49	120.82
1	82	134	ILE	N-CA-CB	6.03	117.60	110.55
1	83	207	PRO	CA-C-O	-6.03	111.63	118.98
1	8c	136	LEU	CA-C-O	6.03	126.94	120.55
1	8r	223	GLY	CA-C-N	6.03	127.37	119.84
1	8r	223	GLY	C-N-CA	6.03	127.37	119.84
1	8z	40	PHE	O-C-N	-6.03	115.73	122.12
1	8J	19	THR	N-CA-C	6.03	117.93	111.36
1	8P	50	GLN	OE1-CD-NE2	-6.03	116.58	122.60
1	99	51	ASP	O-C-N	-6.03	115.86	122.07
1	9s	199	LYS	CA-C-O	-6.03	114.16	120.55
1	am	214	MET	CB-CA-C	-6.03	100.79	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ao	145	TYR	CB-CA-C	-6.03	100.79	110.79
1	aq	182	LYS	N-CA-C	6.03	117.85	111.28
1	aA	44	SER	O-C-N	-6.03	114.81	122.34
1	aS	130	TYR	CB-CA-C	6.03	121.09	110.85
1	b4	82	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	bl	72	THR	CA-C-N	6.03	128.15	120.56
1	bl	72	THR	C-N-CA	6.03	128.15	120.56
1	18	12	HIS	CB-CG-CD2	-6.03	123.37	131.20
1	bs	171	THR	N-CA-C	6.03	117.93	111.36
1	bw	145	TYR	O-C-N	-6.03	114.81	122.34
1	bx	52	LEU	N-CA-C	6.03	117.85	111.28
1	c0	150	ILE	CA-C-O	6.03	127.32	119.85
1	cw	13	GLN	CA-C-O	6.03	127.74	120.99
1	cA	159	GLU	CA-C-N	6.03	125.99	119.78
1	cA	159	GLU	C-N-CA	6.03	125.99	119.78
1	cF	195	ASN	OD1-CG-ND2	-6.03	116.58	122.60
1	cM	35	GLU	CB-CA-C	6.03	121.78	110.63
1	cO	124	ILE	N-CA-CB	6.03	118.86	111.21
1	d3	54	THR	O-C-N	-6.03	115.28	122.15
1	d3	132	ARG	N-CA-C	6.03	118.64	111.71
1	d8	72	THR	CA-C-N	6.03	128.37	120.60
1	d8	72	THR	C-N-CA	6.03	128.37	120.60
1	d9	181	VAL	N-CA-CB	6.03	117.60	110.55
1	db	165	VAL	N-CA-C	-6.03	104.64	110.42
1	de	74	ASN	CA-C-N	6.03	128.35	120.28
1	de	74	ASN	C-N-CA	6.03	128.35	120.28
1	dF	198	CYS	CA-C-N	6.03	128.64	120.38
1	dF	198	CYS	C-N-CA	6.03	128.64	120.38
1	dL	27	VAL	CA-C-O	6.03	127.24	120.85
1	dL	126	VAL	O-C-N	-6.03	116.03	121.87
1	dV	93	PRO	N-CA-C	6.03	119.90	110.80
1	eg	76	GLU	N-CA-CB	-6.03	100.94	110.28
1	eo	138	LEU	N-CA-CB	6.03	118.98	110.12
1	1s	69	LEU	CA-C-N	6.03	128.35	120.28
1	1s	69	LEU	C-N-CA	6.03	128.35	120.28
1	eK	50	GLN	O-C-N	-6.03	115.63	122.08
1	f4	82	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	f7	50	GLN	CB-CG-CD	6.03	122.84	112.60
1	1v	97	ARG	NE-CZ-NH2	-6.03	113.78	119.20
1	fp	228	ALA	CB-CA-C	-6.03	99.16	110.01
1	fr	156	GLY	O-C-N	-6.03	115.74	121.77
1	fD	228	ALA	N-CA-C	-6.03	105.79	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	181	VAL	CA-CB-CG1	6.03	120.64	110.40
1	fY	48	THR	CA-C-N	6.03	125.91	119.28
1	fY	48	THR	C-N-CA	6.03	125.91	119.28
1	j	97	ARG	NE-CZ-NH1	6.03	127.53	121.50
1	l	107	THR	N-CA-C	6.03	118.37	111.02
1	A	26	VAL	CA-C-O	-6.03	115.00	121.27
1	B	117	TRP	CZ3-CH2-CZ2	-6.03	113.67	121.50
1	C	143	ARG	CG-CD-NE	-6.03	98.75	112.00
1	L	90	PRO	N-CA-CB	6.03	109.58	103.25
1	M	18	ARG	NE-CZ-NH2	6.03	124.62	119.20
1	P	209	ALA	N-CA-C	6.03	119.10	110.24
1	S	92	GLU	CA-C-N	6.03	126.38	119.93
1	S	92	GLU	C-N-CA	6.03	126.38	119.93
1	5	226	HIS	CE1-NE2-CD2	-6.03	102.97	109.00
1	g9	189	LEU	N-CA-C	6.02	117.85	111.28
1	1C	126	VAL	CA-C-O	6.02	127.56	121.17
1	gk	165	VAL	N-CA-CB	6.02	119.62	110.58
1	1E	160	PRO	N-CA-CB	6.02	109.58	103.25
1	1E	226	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	gV	152	ASP	CA-CB-CG	-6.02	106.58	112.60
1	h7	53	ASN	N-CA-C	6.02	117.85	111.28
1	hV	116	GLY	O-C-N	-6.02	116.41	122.19
1	i5	23	TRP	CA-C-O	6.02	126.81	120.42
1	ia	62	HIS	CA-CB-CG	-6.02	107.78	113.80
1	ik	54	THR	CA-C-N	6.02	129.16	120.79
1	ik	54	THR	C-N-CA	6.02	129.16	120.79
1	iO	81	ASP	CA-CB-CG	6.02	118.62	112.60
1	iS	77	ALA	CA-C-O	6.02	126.94	120.55
1	jb	84	HIS	CA-CB-CG	6.02	119.82	113.80
1	1V	148	THR	N-CA-CB	6.02	120.01	110.55
1	jn	63	GLN	O-C-N	-6.02	115.73	122.12
1	jA	161	PHE	CA-CB-CG	6.02	119.82	113.80
1	1X	67	GLN	N-CA-CB	6.02	119.08	110.16
1	k1	167	ARG	O-C-N	-6.02	115.73	122.12
1	k2	21	ASN	O-C-N	-6.02	115.73	122.12
1	k5	144	MET	CA-C-O	6.02	126.57	119.28
1	kb	93	PRO	CA-C-O	-6.02	114.94	121.27
1	ki	135	ILE	CA-C-O	6.02	127.23	120.85
1	ky	74	ASN	CA-CB-CG	-6.02	106.58	112.60
1	kC	148	THR	N-CA-CB	6.02	118.89	110.04
1	lC	203	LYS	CA-C-N	6.02	128.67	120.54
1	lC	203	LYS	C-N-CA	6.02	128.67	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2b	96	MET	N-CA-C	6.02	119.40	110.48
1	2c	61	GLY	O-C-N	6.02	128.60	122.88
1	2e	216	THR	O-C-N	-6.02	114.81	122.34
1	2o	150	ILE	O-C-N	-6.02	115.78	121.87
1	2u	1	PRO	CB-CA-C	6.02	121.55	110.10
1	2Q	98	GLU	CA-C-O	-6.02	114.39	120.96
1	2X	216	THR	N-CA-CB	6.02	120.53	110.41
1	38	9	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	3f	146	SER	CA-C-N	6.02	125.42	118.85
1	3f	146	SER	C-N-CA	6.02	125.42	118.85
1	3j	222	GLY	O-C-N	-6.02	118.01	122.71
1	41	95	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	4Z	5	ASN	CA-C-N	6.02	132.26	121.66
1	4Z	5	ASN	C-N-CA	6.02	132.26	121.66
1	59	59	VAL	CA-CB-CG2	-6.02	100.16	110.40
1	5b	220	GLY	CA-C-N	6.02	129.56	120.77
1	5b	220	GLY	C-N-CA	6.02	129.56	120.77
1	6j	172	LEU	CA-C-O	-6.02	114.16	120.55
1	6A	78	ALA	O-C-N	-6.02	115.86	122.07
1	6O	24	VAL	O-C-N	-6.02	116.03	121.87
1	6P	181	VAL	O-C-N	-6.02	115.64	121.90
1	6T	48	THR	O-C-N	-6.02	114.78	121.53
1	7m	95	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	7B	177	ALA	O-C-N	-6.02	115.24	122.65
1	8k	183	ASN	N-CA-C	6.02	118.64	111.71
1	8l	100	ARG	CA-C-N	6.02	126.78	120.03
1	8l	100	ARG	C-N-CA	6.02	126.78	120.03
1	8r	19	THR	CA-C-N	6.02	128.27	120.44
1	8r	19	THR	C-N-CA	6.02	128.27	120.44
1	8M	101	GLY	N-CA-C	6.02	121.13	113.24
1	9N	120	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	aV	53	ASN	O-C-N	6.02	128.28	122.07
1	16	217	ALA	CA-C-O	6.02	127.00	120.43
1	bl	96	MET	N-CA-CB	-6.02	101.58	110.49
1	c0	36	VAL	CA-C-N	6.02	126.21	120.43
1	c0	36	VAL	C-N-CA	6.02	126.21	120.43
1	dg	15	ILE	O-C-N	-6.02	116.21	122.66
1	e4	65	ALA	O-C-N	-6.02	115.73	122.12
1	ee	186	THR	N-CA-C	6.02	117.52	111.07
1	eh	217	ALA	N-CA-C	6.02	119.82	112.23
1	fP	24	VAL	CA-CB-CG2	6.02	120.64	110.40
1	fS	37	ILE	N-CA-C	6.02	119.58	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	0	116	GLY	N-CA-C	6.02	119.93	112.64
1	y	91	ILE	CA-C-O	6.02	127.72	120.85
1	gd	53	ASN	CA-CB-CG	-6.02	106.58	112.60
1	gp	139	ASN	CA-CB-CG	6.02	118.62	112.60
1	gz	59	VAL	N-CA-CB	6.02	117.91	111.46
1	gO	33	SER	O-C-N	-6.02	116.85	121.55
1	gO	66	MET	CG-SD-CE	-6.02	87.65	100.90
1	gO	145	TYR	CA-C-N	6.02	128.53	120.58
1	gO	145	TYR	C-N-CA	6.02	128.53	120.58
1	h1	211	LEU	O-C-N	-6.02	115.73	122.12
1	hf	144	MET	CA-C-N	6.02	130.96	121.56
1	hf	144	MET	C-N-CA	6.02	130.96	121.56
1	hq	205	LEU	N-CA-C	6.02	117.84	111.28
1	hA	224	PRO	CA-C-N	6.02	133.22	121.41
1	hA	224	PRO	C-N-CA	6.02	133.22	121.41
1	1M	12	HIS	O-C-N	-6.02	116.13	123.30
1	1M	223	GLY	CA-C-N	6.02	127.37	119.84
1	1M	223	GLY	C-N-CA	6.02	127.37	119.84
1	i1	230	VAL	N-CA-C	6.02	116.76	110.62
1	i9	36	VAL	CA-C-O	-6.02	113.97	120.47
1	ii	48	THR	N-CA-CB	6.02	118.17	110.04
1	iq	50	GLN	CG-CD-NE2	-6.02	107.37	116.40
1	iA	85	PRO	N-CA-C	6.02	124.88	112.47
1	j4	51	ASP	CA-C-N	6.02	128.67	120.54
1	j4	51	ASP	C-N-CA	6.02	128.67	120.54
1	j8	201	ILE	CA-C-N	6.02	128.84	120.29
1	j8	201	ILE	C-N-CA	6.02	128.84	120.29
1	jw	57	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	jC	23	TRP	CB-CG-CD1	-6.02	117.86	126.90
1	jE	180	GLU	N-CA-CB	-6.02	101.25	110.16
1	k4	128	GLU	O-C-N	-6.02	115.74	122.12
1	kf	87	HIS	CA-CB-CG	-6.02	107.78	113.80
1	kr	181	VAL	CG1-CB-CG2	-6.02	97.55	110.80
1	kL	210	THR	CA-C-O	-6.02	115.00	121.56
1	l6	144	MET	O-C-N	-6.02	115.74	122.12
1	l6	156	GLY	CA-C-N	6.02	125.23	118.97
1	l6	156	GLY	C-N-CA	6.02	125.23	118.97
1	lg	56	LEU	CA-C-N	6.02	128.27	120.44
1	lg	56	LEU	C-N-CA	6.02	128.27	120.44
1	lq	90	PRO	N-CA-CB	-6.02	98.03	102.25
1	lB	197	ASP	O-C-N	-6.02	115.74	122.12
1	2b	41	SER	CA-C-N	6.02	128.84	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2b	41	SER	C-N-CA	6.02	128.84	120.29
1	2k	81	ASP	N-CA-C	6.02	119.89	112.54
1	2p	79	GLU	CA-C-N	6.02	128.67	120.54
1	2p	79	GLU	C-N-CA	6.02	128.67	120.54
1	2H	193	ASN	N-CA-C	6.02	120.63	113.28
1	3c	64	ALA	O-C-N	6.02	128.50	122.12
1	3v	206	GLY	CA-C-O	-6.02	112.91	121.52
1	3w	25	LYS	CA-C-O	6.02	127.14	120.82
1	3y	37	ILE	O-C-N	-6.02	114.23	121.10
1	3z	80	TRP	CA-C-O	6.02	126.90	120.70
1	3D	167	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	3J	4	GLN	N-CA-C	6.02	118.96	110.23
1	49	221	VAL	N-CA-C	6.02	118.68	112.90
1	4u	146	SER	N-CA-C	6.02	117.24	109.65
1	4G	7	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	4K	86	VAL	CA-C-O	6.02	126.35	120.27
1	4Q	199	LYS	N-CA-C	-6.02	104.64	112.23
1	4W	171	THR	O-C-N	-6.02	115.87	122.07
1	52	54	THR	CA-CB-OG1	6.02	118.64	109.60
1	5a	78	ALA	O-C-N	-6.02	115.87	122.07
1	5e	205	LEU	CA-C-N	6.02	131.33	121.87
1	5e	205	LEU	C-N-CA	6.02	131.33	121.87
1	5g	56	LEU	CA-C-N	6.02	128.95	120.28
1	5g	56	LEU	C-N-CA	6.02	128.95	120.28
1	5A	202	LEU	N-CA-C	6.02	117.84	111.28
1	5E	141	ILE	N-CA-C	6.02	116.20	110.42
1	5R	116	GLY	CA-C-O	-6.02	114.85	121.05
1	5T	12	HIS	O-C-N	-6.02	115.62	122.97
1	5V	195	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	5W	198	CYS	O-C-N	-6.02	114.53	122.42
1	62	167	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	6b	101	GLY	CA-C-N	6.02	128.67	120.54
1	6b	101	GLY	C-N-CA	6.02	128.67	120.54
1	6h	210	THR	CA-C-N	6.02	128.35	120.28
1	6h	210	THR	C-N-CA	6.02	128.35	120.28
1	6j	74	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	6z	1	PRO	CA-N-CD	-6.02	103.57	112.00
1	6C	75	GLU	CA-C-O	6.02	126.90	120.70
1	6C	183	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	6J	200	THR	N-CA-C	6.02	117.92	111.36
1	6Y	28	GLU	N-CA-C	6.02	117.51	111.07
1	6Z	134	ILE	O-C-N	-6.02	116.01	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	144	MET	N-CA-C	6.02	117.53	110.97
1	78	36	VAL	O-C-N	-6.02	115.63	121.83
1	7H	48	THR	CA-C-N	6.02	127.37	119.84
1	7H	48	THR	C-N-CA	6.02	127.37	119.84
1	7P	88	ALA	CB-CA-C	-6.02	99.92	109.80
1	7V	134	ILE	N-CA-C	6.02	116.76	110.62
1	8b	223	GLY	O-C-N	-6.02	115.75	121.77
1	8l	167	ARG	N-CA-C	6.02	118.34	111.11
1	8o	218	CYS	CA-C-N	6.02	132.05	123.14
1	8o	218	CYS	C-N-CA	6.02	132.05	123.14
1	8E	169	TYR	O-C-N	-6.02	115.74	122.12
1	8Y	161	PHE	O-C-N	-6.02	115.87	122.07
1	99	138	LEU	N-CA-CB	6.02	119.09	110.06
1	9D	158	LYS	N-CA-C	-6.02	105.23	113.30
1	9I	81	ASP	CA-C-N	6.02	128.27	120.44
1	9I	81	ASP	C-N-CA	6.02	128.27	120.44
1	14	204	ALA	CA-C-N	6.02	128.35	120.28
1	14	204	ALA	C-N-CA	6.02	128.35	120.28
1	aP	36	VAL	CA-C-N	6.02	125.15	120.33
1	aP	36	VAL	C-N-CA	6.02	125.15	120.33
1	b5	150	ILE	N-CA-C	6.02	116.76	110.62
1	b6	173	ARG	N-CA-C	6.02	117.85	111.28
1	b8	63	GLN	O-C-N	-6.02	115.87	122.07
1	b8	170	LYS	CA-C-N	6.02	128.27	120.44
1	b8	170	LYS	C-N-CA	6.02	128.27	120.44
1	19	126	VAL	N-CA-C	6.02	116.68	110.36
1	bJ	197	ASP	N-CA-C	6.02	120.24	113.01
1	bN	132	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	bO	65	ALA	N-CA-CB	-6.02	101.25	110.16
1	cA	3	VAL	O-C-N	-6.02	116.53	122.67
1	cB	188	THR	CA-CB-OG1	6.02	118.63	109.60
1	cD	21	ASN	O-C-N	-6.02	115.74	122.12
1	cI	5	ASN	CA-C-N	6.02	128.35	120.28
1	cI	5	ASN	C-N-CA	6.02	128.35	120.28
1	cQ	36	VAL	N-CA-C	6.02	118.58	111.05
1	cS	164	TYR	N-CA-C	6.02	117.84	111.28
1	1h	209	ALA	O-C-N	-6.02	115.57	122.68
1	d7	99	PRO	CA-C-O	-6.02	114.47	121.34
1	da	87	HIS	ND1-CE1-NE2	6.02	114.42	108.40
1	da	92	GLU	CA-C-N	6.02	127.37	119.84
1	da	92	GLU	C-N-CA	6.02	127.37	119.84
1	1j	51	ASP	CA-C-N	6.02	128.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1j	51	ASP	C-N-CA	6.02	128.27	120.44
1	de	209	ALA	N-CA-CB	6.02	118.84	110.17
1	dh	112	GLN	N-CA-C	6.02	118.64	111.71
1	dC	105	ALA	N-CA-C	6.02	118.64	111.71
1	1o	115	ILE	CA-C-N	6.02	126.77	120.03
1	1o	115	ILE	C-N-CA	6.02	126.77	120.03
1	e3	78	ALA	CA-C-N	6.02	128.35	120.28
1	e3	78	ALA	C-N-CA	6.02	128.35	120.28
1	e7	24	VAL	N-CA-C	6.02	116.76	110.62
1	e9	226	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	eM	184	TRP	N-CA-C	6.02	118.81	111.82
1	fd	5	ASN	CA-CB-CG	-6.02	106.58	112.60
1	fd	226	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	1w	114	GLN	CA-C-N	6.02	128.71	120.46
1	1w	114	GLN	C-N-CA	6.02	128.71	120.46
1	fI	168	PHE	N-CA-C	-6.02	104.62	111.07
1	fZ	13	GLN	CA-C-O	-6.02	114.79	121.23
1	a	24	VAL	N-CA-C	6.02	116.76	110.62
1	b	24	VAL	O-C-N	-6.02	116.03	121.87
1	g	140	LYS	CA-C-N	6.02	128.37	120.60
1	g	140	LYS	C-N-CA	6.02	128.37	120.60
1	y	183	ASN	CA-C-N	6.02	128.27	120.44
1	y	183	ASN	C-N-CA	6.02	128.27	120.44
1	3	228	ALA	N-CA-C	-6.02	104.05	113.02
1	6	7	GLN	CB-CG-CD	6.02	122.84	112.60
1	gk	111	LEU	CA-C-N	6.02	128.35	120.28
1	gk	111	LEU	C-N-CA	6.02	128.35	120.28
1	h3	96	MET	CA-CB-CG	6.02	126.14	114.10
1	hA	73	ILE	N-CA-C	6.02	116.76	110.62
1	iv	126	VAL	N-CA-C	6.02	116.76	110.62
1	1Q	205	LEU	CA-C-O	6.02	126.39	119.35
1	iA	131	LYS	N-CA-CB	-6.02	101.27	110.12
1	iT	138	LEU	CA-C-N	6.02	128.35	120.28
1	iT	138	LEU	C-N-CA	6.02	128.35	120.28
1	iU	62	HIS	N-CA-C	6.02	119.95	111.52
1	iW	177	ALA	O-C-N	-6.02	115.75	122.86
1	jB	62	HIS	N-CA-C	6.02	119.66	111.17
1	jF	87	HIS	CB-CG-CD2	-6.02	123.37	131.20
1	km	13	GLN	O-C-N	-6.02	116.29	123.27
1	kA	61	GLY	CA-C-N	6.02	130.91	122.36
1	kA	61	GLY	C-N-CA	6.02	130.91	122.36
1	kR	71	GLU	O-C-N	-6.02	115.87	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	96	MET	CA-C-N	6.02	133.04	121.54
1	lN	96	MET	C-N-CA	6.02	133.04	121.54
1	2m	36	VAL	CA-C-N	6.02	124.03	120.24
1	2m	36	VAL	C-N-CA	6.02	124.03	120.24
1	2p	55	MET	N-CA-CB	-6.02	100.97	109.94
1	2M	14	ALA	N-CA-C	6.02	118.96	110.23
1	37	203	LYS	CA-C-N	6.02	128.27	120.44
1	37	203	LYS	C-N-CA	6.02	128.27	120.44
1	3s	4	GLN	OE1-CD-NE2	6.02	128.62	122.60
1	46	32	PHE	CA-CB-CG	-6.02	107.78	113.80
1	4K	97	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	4K	123	PRO	CA-C-O	-6.02	114.48	121.34
1	59	212	GLU	O-C-N	6.02	128.35	122.09
1	5u	164	TYR	N-CA-C	6.02	118.36	111.02
1	6F	159	GLU	O-C-N	-6.02	114.79	121.53
1	70	87	HIS	CB-CG-CD2	-6.02	123.37	131.20
1	72	18	ARG	N-CA-C	6.02	117.84	111.28
1	7q	229	ARG	O-C-N	-6.02	115.47	122.87
1	7G	141	ILE	O-C-N	-6.02	116.01	121.91
1	7M	187	GLU	N-CA-C	6.02	117.51	111.07
1	7Q	100	ARG	CA-C-N	6.02	127.87	120.22
1	7Q	100	ARG	C-N-CA	6.02	127.87	120.22
1	7S	101	GLY	N-CA-C	6.02	121.28	113.27
1	7Z	14	ALA	N-CA-CB	-6.02	101.27	110.42
1	89	184	TRP	CA-C-N	6.02	128.35	120.28
1	89	184	TRP	C-N-CA	6.02	128.35	120.28
1	8r	95	GLN	CA-C-N	6.02	129.31	120.82
1	8r	95	GLN	C-N-CA	6.02	129.31	120.82
1	8E	72	THR	CA-C-N	6.02	128.15	120.56
1	8E	72	THR	C-N-CA	6.02	128.15	120.56
1	8I	163	ASP	N-CA-C	6.02	118.81	111.82
1	8Y	69	LEU	N-CA-CB	-6.02	101.25	110.16
1	9p	89	GLY	CA-C-N	6.02	126.04	119.90
1	9p	89	GLY	C-N-CA	6.02	126.04	119.90
1	9E	143	ARG	CB-CA-C	-6.02	100.61	110.85
1	9J	25	LYS	CA-C-O	6.02	126.93	120.55
1	a4	56	LEU	N-CA-C	6.02	117.51	111.07
1	aY	100	ARG	O-C-N	-6.02	114.46	122.59
1	bk	24	VAL	CB-CA-C	-6.02	104.13	112.02
1	bI	50	GLN	N-CA-C	6.02	117.84	111.28
1	bU	170	LYS	O-C-N	-6.02	115.74	122.12
1	ct	116	GLY	N-CA-C	6.02	119.48	112.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cT	18	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	1h	46	GLY	CA-C-N	6.02	129.26	120.71
1	1h	46	GLY	C-N-CA	6.02	129.26	120.71
1	cU	114	GLN	N-CA-C	6.02	117.84	111.28
1	dr	173	ARG	CA-C-N	6.02	128.27	120.44
1	dr	173	ARG	C-N-CA	6.02	128.27	120.44
1	dB	121	ASN	CA-CB-CG	6.02	118.62	112.60
1	dQ	120	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	dX	165	VAL	N-CA-C	6.02	116.20	110.42
1	ef	86	VAL	O-C-N	-6.02	116.09	122.95
1	ej	128	GLU	CA-C-N	6.02	128.23	120.70
1	ej	128	GLU	C-N-CA	6.02	128.23	120.70
1	ep	132	ARG	CA-C-N	6.02	128.27	120.44
1	ep	132	ARG	C-N-CA	6.02	128.27	120.44
1	eA	154	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	1s	74	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	eM	51	ASP	CA-C-N	6.02	128.63	120.38
1	eM	51	ASP	C-N-CA	6.02	128.63	120.38
1	eW	92	GLU	O-C-N	-6.02	114.69	121.43
1	fc	100	ARG	O-C-N	-6.02	115.93	122.79
1	fi	150	ILE	N-CA-C	6.02	119.48	111.17
1	fz	158	LYS	N-CA-CB	-6.02	101.74	110.47
1	fK	74	ASN	OD1-CG-ND2	6.02	128.62	122.60
1	fK	181	VAL	CA-C-N	6.02	128.63	120.44
1	fK	181	VAL	C-N-CA	6.02	128.63	120.44
1	b	10	MET	O-C-N	-6.02	115.53	122.93
1	D	112	GLN	N-CA-C	6.02	117.84	111.28
1	I	133	TRP	CA-C-N	6.02	128.71	120.46
1	I	133	TRP	C-N-CA	6.02	128.71	120.46
1	J	100	ARG	N-CA-CB	6.02	120.09	110.46
1	gh	7	GLN	N-CA-C	-6.02	104.58	113.61
1	gi	169	TYR	CB-CA-C	6.02	120.78	110.79
1	gl	53	ASN	N-CA-C	6.02	117.92	111.36
1	1D	225	GLY	O-C-N	-6.02	115.06	122.46
1	gs	143	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	gD	193	ASN	CA-C-N	6.02	129.38	120.95
1	gD	193	ASN	C-N-CA	6.02	129.38	120.95
1	gK	84	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	h6	11	VAL	CA-C-O	6.02	128.30	120.78
1	1I	143	ARG	N-CA-C	6.02	120.23	113.01
1	hE	145	TYR	CB-CG-CD2	-6.02	111.77	120.80
1	hI	196	PRO	N-CA-CB	-6.02	96.93	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i7	203	LYS	N-CA-CB	6.02	119.07	110.16
1	io	69	LEU	N-CA-C	6.02	118.33	111.11
1	iE	99	PRO	N-CA-C	6.02	124.87	112.47
1	iF	120	HIS	CB-CA-C	6.02	120.62	109.54
1	iM	176	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	iP	166	ASP	CA-C-N	6.02	128.26	120.44
1	iP	166	ASP	C-N-CA	6.02	128.26	120.44
1	1S	94	GLY	CA-C-N	6.02	130.77	120.72
1	1S	94	GLY	C-N-CA	6.02	130.77	120.72
1	1U	145	TYR	N-CA-CB	6.02	121.22	110.80
1	jr	164	TYR	N-CA-CB	-6.02	101.28	110.01
1	1Y	140	LYS	CA-C-N	6.02	128.15	120.56
1	1Y	140	LYS	C-N-CA	6.02	128.15	120.56
1	jU	210	THR	CA-C-N	6.02	128.63	120.38
1	jU	210	THR	C-N-CA	6.02	128.63	120.38
1	k8	3	VAL	CB-CA-C	6.02	119.75	110.96
1	kl	14	ALA	CA-C-O	6.02	127.81	121.19
1	kp	141	ILE	N-CA-C	6.02	116.76	110.62
1	kp	180	GLU	CA-C-N	6.02	128.71	120.46
1	kp	180	GLU	C-N-CA	6.02	128.71	120.46
1	kv	163	ASP	CA-C-O	-6.02	114.50	120.82
1	kz	82	ARG	N-CA-C	6.02	117.84	111.28
1	kD	57	ASN	CA-C-N	6.02	131.67	121.14
1	kD	57	ASN	C-N-CA	6.02	131.67	121.14
1	kR	16	SER	CA-C-N	6.02	125.64	119.56
1	kR	16	SER	C-N-CA	6.02	125.64	119.56
1	l4	31	ALA	CA-C-N	6.02	131.62	122.65
1	l4	31	ALA	C-N-CA	6.02	131.62	122.65
1	26	66	MET	CG-SD-CE	-6.02	87.66	100.90
1	lh	219	GLN	N-CA-C	-6.02	104.84	111.82
1	lp	168	PHE	CA-CB-CG	-6.02	107.78	113.80
1	28	167	ARG	N-CA-C	6.02	117.84	111.28
1	ls	102	SER	N-CA-C	6.02	118.61	111.33
1	ly	136	LEU	CA-C-N	6.02	126.62	120.00
1	ly	136	LEU	C-N-CA	6.02	126.62	120.00
1	lK	105	ALA	N-CA-CB	-6.02	100.30	110.41
1	lR	193	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	2m	137	GLY	O-C-N	-6.02	116.41	122.19
1	2p	25	LYS	CA-C-N	6.02	128.71	120.46
1	2p	25	LYS	C-N-CA	6.02	128.71	120.46
1	2q	65	ALA	CA-C-N	6.02	128.35	120.28
1	2q	65	ALA	C-N-CA	6.02	128.35	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2F	138	LEU	N-CA-C	6.02	117.84	111.28
1	2Q	168	PHE	N-CA-C	6.02	118.61	111.33
1	2T	12	HIS	ND1-CE1-NE2	6.02	114.42	108.40
1	2X	172	LEU	CA-C-N	6.02	128.34	120.28
1	2X	172	LEU	C-N-CA	6.02	128.34	120.28
1	2Z	36	VAL	CA-C-O	6.02	126.16	119.42
1	32	123	PRO	CB-CA-C	6.02	121.49	111.56
1	3k	167	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	3y	61	GLY	CA-C-N	6.02	130.91	122.36
1	3y	61	GLY	C-N-CA	6.02	130.91	122.36
1	3G	177	ALA	N-CA-C	6.02	117.81	110.41
1	3P	125	PRO	CA-C-N	6.02	129.02	120.53
1	3P	125	PRO	C-N-CA	6.02	129.02	120.53
1	3U	126	VAL	N-CA-C	6.02	118.58	111.05
1	3X	177	ALA	CB-CA-C	6.02	119.12	109.61
1	44	198	CYS	O-C-N	-6.02	115.29	122.15
1	4e	84	HIS	CA-C-N	6.02	126.33	119.83
1	4e	84	HIS	C-N-CA	6.02	126.33	119.83
1	4x	48	THR	CA-CB-CG2	-6.02	100.27	110.50
1	4A	74	ASN	CA-CB-CG	-6.02	106.58	112.60
1	4F	165	VAL	N-CA-C	6.02	117.48	110.62
1	5j	142	VAL	N-CA-C	6.02	116.68	110.36
1	5r	130	TYR	CA-C-N	6.02	128.67	120.54
1	5r	130	TYR	C-N-CA	6.02	128.67	120.54
1	5D	166	ASP	CA-C-N	6.02	128.35	120.28
1	5D	166	ASP	C-N-CA	6.02	128.35	120.28
1	5K	133	TRP	CB-CA-C	-6.02	100.80	110.79
1	5N	12	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	62	87	HIS	N-CA-C	6.02	118.99	109.96
1	6C	123	PRO	N-CA-CB	6.02	108.69	103.27
1	6F	53	ASN	O-C-N	-6.02	114.87	122.27
1	6M	48	THR	CA-C-N	6.02	126.18	119.32
1	6M	48	THR	C-N-CA	6.02	126.18	119.32
1	6V	91	ILE	CB-CA-C	-6.02	103.31	110.84
1	6Z	96	MET	CA-C-N	6.02	133.04	121.54
1	6Z	96	MET	C-N-CA	6.02	133.04	121.54
1	7p	96	MET	N-CA-C	6.02	123.62	110.80
1	7t	180	GLU	N-CA-C	6.02	117.84	111.28
1	7A	73	ILE	CB-CA-C	-6.02	104.27	111.97
1	7C	26	VAL	CA-C-O	-6.02	114.47	120.85
1	83	164	TYR	CA-C-N	6.02	128.97	120.42
1	83	164	TYR	C-N-CA	6.02	128.97	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8s	223	GLY	CA-C-N	6.02	127.36	119.84
1	8s	223	GLY	C-N-CA	6.02	127.36	119.84
1	8u	97	ARG	NH1-CZ-NH2	-6.02	111.47	119.30
1	8V	163	ASP	CA-CB-CG	6.02	118.62	112.60
1	9g	139	ASN	O-C-N	-6.02	115.87	122.07
1	9T	167	ARG	CA-C-N	6.02	128.27	120.44
1	9T	167	ARG	C-N-CA	6.02	128.27	120.44
1	a3	143	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	aa	144	MET	CB-CA-C	-6.02	101.39	110.90
1	am	121	ASN	CB-CA-C	6.02	117.07	110.15
1	aN	12	HIS	CB-CG-ND1	-6.02	113.67	122.70
1	b0	9	GLN	O-C-N	-6.02	116.20	122.94
1	b0	63	GLN	O-C-N	-6.02	114.86	122.27
1	bk	201	ILE	O-C-N	-6.02	115.79	121.87
1	bv	193	ASN	OD1-CG-ND2	-6.02	116.58	122.60
1	c4	214	MET	N-CA-C	6.02	117.92	111.36
1	ci	39	MET	CA-CB-CG	6.02	126.14	114.10
1	1f	86	VAL	CA-CB-CG1	-6.02	100.17	110.40
1	d4	154	ARG	N-CA-CB	6.02	121.07	111.56
1	dp	126	VAL	CB-CA-C	-6.02	104.01	112.14
1	dv	210	THR	CA-C-N	6.02	128.67	120.54
1	dv	210	THR	C-N-CA	6.02	128.67	120.54
1	dR	184	TRP	CA-C-N	6.02	128.95	120.28
1	dR	184	TRP	C-N-CA	6.02	128.95	120.28
1	dY	226	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	e0	197	ASP	CA-C-O	6.02	126.89	119.97
1	e6	223	GLY	N-CA-C	6.02	119.22	112.00
1	ei	76	GLU	O-C-N	-6.02	115.29	122.15
1	eu	138	LEU	O-C-N	-6.02	115.74	122.12
1	1r	133	TRP	CD2-CE2-CZ2	6.02	128.42	122.40
1	ew	179	GLN	N-CA-C	6.02	117.51	111.07
1	eH	30	LYS	N-CA-C	-6.02	106.55	114.31
1	eO	112	GLN	CA-C-N	6.02	128.27	120.44
1	eO	112	GLN	C-N-CA	6.02	128.27	120.44
1	eV	9	GLN	N-CA-CB	6.02	120.66	110.49
1	eZ	48	THR	CA-C-N	6.02	127.36	119.84
1	eZ	48	THR	C-N-CA	6.02	127.36	119.84
1	f5	119	THR	CA-C-O	6.02	126.69	119.59
1	ft	152	ASP	CA-C-N	6.02	128.57	120.50
1	ft	152	ASP	C-N-CA	6.02	128.57	120.50
1	fS	114	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	fZ	146	SER	O-C-N	-6.02	114.91	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fZ	171	THR	O-C-N	-6.02	115.29	122.15
1	a	162	ARG	N-CA-C	6.02	117.84	111.28
1	a	169	TYR	N-CA-C	6.02	117.84	111.28
1	c	120	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	e	146	SER	CA-C-O	-6.02	113.53	119.49
1	n	5	ASN	N-CA-CB	6.02	119.79	110.46
1	v	67	GLN	N-CA-C	6.02	117.51	111.07
1	S	169	TYR	N-CA-CB	6.02	118.97	110.12
1	U	72	THR	CA-C-O	6.02	126.93	120.55
1	V	182	LYS	CA-C-N	6.02	128.35	120.28
1	V	182	LYS	C-N-CA	6.02	128.35	120.28
1	8	56	LEU	CA-C-O	6.02	126.89	119.97
1	gq	147	PRO	N-CA-C	6.02	124.87	112.47
1	1D	11	VAL	CA-C-O	6.02	126.71	120.39
1	gx	169	TYR	N-CA-C	6.02	117.92	111.36
1	gA	201	ILE	CA-C-N	6.02	128.26	120.44
1	gA	201	ILE	C-N-CA	6.02	128.26	120.44
1	gL	89	GLY	CA-C-N	6.02	126.03	119.89
1	gL	89	GLY	C-N-CA	6.02	126.03	119.89
1	gS	124	ILE	N-CA-CB	6.02	117.88	111.20
1	hf	96	MET	CG-SD-CE	-6.02	87.66	100.90
1	hk	34	PRO	CA-C-N	6.02	128.95	120.28
1	hk	34	PRO	C-N-CA	6.02	128.95	120.28
1	hr	161	PHE	N-CA-C	6.02	118.61	111.33
1	hs	62	HIS	CA-CB-CG	6.02	119.82	113.80
1	hC	57	ASN	CA-CB-CG	-6.02	106.58	112.60
1	hE	98	GLU	CA-C-N	6.02	127.63	120.23
1	hE	98	GLU	C-N-CA	6.02	127.63	120.23
1	hN	62	HIS	CA-CB-CG	6.02	119.82	113.80
1	hY	203	LYS	N-CA-C	6.02	118.63	111.71
1	hZ	143	ARG	CD-NE-CZ	6.02	132.82	124.40
1	i7	66	MET	N-CA-C	6.02	118.33	111.11
1	ib	76	GLU	CA-C-N	6.02	128.26	120.44
1	ib	76	GLU	C-N-CA	6.02	128.26	120.44
1	ik	112	GLN	CB-CG-CD	6.02	122.83	112.60
1	iE	215	MET	CA-C-O	6.02	126.80	120.42
1	iM	143	ARG	NH1-CZ-NH2	-6.02	111.48	119.30
1	iT	87	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	iV	29	GLU	N-CA-C	6.02	117.92	111.36
1	jb	84	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	jf	187	GLU	N-CA-C	6.02	119.88	112.54
1	1V	16	SER	CA-C-N	6.02	125.41	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	16	SER	C-N-CA	6.02	125.41	118.85
1	1V	44	SER	N-CA-C	6.02	120.64	112.88
1	1V	162	ARG	NH1-CZ-NH2	-6.02	111.48	119.30
1	ju	173	ARG	CG-CD-NE	-6.02	98.76	112.00
1	1W	7	GLN	CA-C-O	6.02	126.81	119.11
1	jB	149	SER	O-C-N	-6.02	116.16	122.96
1	jE	45	GLU	N-CA-C	6.02	117.92	111.36
1	jN	120	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	k2	202	LEU	CB-CA-C	6.02	121.08	110.85
1	ki	36	VAL	N-CA-C	6.02	116.68	110.36
1	kl	55	MET	O-C-N	-6.02	115.87	122.07
1	kl	71	GLU	CA-C-N	6.02	128.34	120.28
1	kl	71	GLU	C-N-CA	6.02	128.34	120.28
1	kr	139	ASN	CA-CB-CG	-6.02	106.58	112.60
1	ks	165	VAL	CA-C-O	6.02	127.21	120.95
1	ku	192	GLN	N-CA-C	6.02	121.30	111.37
1	kI	63	GLN	CA-C-O	6.02	126.80	120.42
1	kX	168	PHE	N-CA-C	6.02	117.51	111.07
1	l1	163	ASP	CA-CB-CG	6.02	118.62	112.60
1	l9	64	ALA	CA-C-O	6.02	126.80	120.42
1	ll	24	VAL	N-CA-CB	6.02	118.72	110.54
1	lt	195	ASN	CA-C-N	6.02	126.18	119.32
1	lt	195	ASN	C-N-CA	6.02	126.18	119.32
1	lG	132	ARG	CA-C-N	6.02	128.34	120.28
1	lG	132	ARG	C-N-CA	6.02	128.34	120.28
1	2s	126	VAL	CA-C-N	6.02	126.62	120.00
1	2s	126	VAL	C-N-CA	6.02	126.62	120.00
1	2y	167	ARG	NE-CZ-NH2	6.02	124.62	119.20
1	2T	203	LYS	CA-C-N	6.02	128.62	120.44
1	2T	203	LYS	C-N-CA	6.02	128.62	120.44
1	2X	158	LYS	N-CA-CB	-6.02	102.58	110.88
1	37	15	ILE	CB-CA-C	6.02	119.39	111.33
1	39	3	VAL	CA-C-O	-6.02	113.63	120.67
1	3e	206	GLY	O-C-N	-6.02	115.75	121.77
1	3B	65	ALA	CA-C-O	6.02	126.90	120.70
1	4s	180	GLU	O-C-N	6.02	128.50	122.12
1	4F	10	MET	N-CA-C	6.02	119.86	111.74
1	4H	179	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	4I	222	GLY	O-C-N	-6.02	114.88	122.70
1	4N	36	VAL	N-CA-C	6.02	116.76	110.62
1	52	224	PRO	N-CA-C	6.02	124.86	112.47
1	56	124	ILE	O-C-N	-6.02	114.24	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	57	71	GLU	CA-C-N	6.02	128.34	120.28
1	57	71	GLU	C-N-CA	6.02	128.34	120.28
1	5b	75	GLU	O-C-N	-6.02	114.41	122.23
1	5g	11	VAL	CA-C-O	-6.02	113.63	120.67
1	5i	87	HIS	CA-CB-CG	-6.02	107.78	113.80
1	5n	197	ASP	N-CA-C	6.02	117.51	111.07
1	5q	129	ILE	CA-C-O	-6.02	114.79	121.17
1	5r	229	ARG	CD-NE-CZ	6.02	132.82	124.40
1	5t	195	ASN	O-C-N	-6.02	115.94	121.30
1	5F	80	TRP	CA-C-N	6.02	129.46	120.31
1	5F	80	TRP	C-N-CA	6.02	129.46	120.31
1	5T	84	HIS	CA-C-O	-6.02	114.75	119.99
1	6j	82	ARG	N-CA-C	6.02	117.84	111.28
1	7h	39	MET	CA-C-N	6.02	128.34	120.28
1	7h	39	MET	C-N-CA	6.02	128.34	120.28
1	7k	204	ALA	N-CA-C	-6.02	105.43	112.89
1	7v	128	GLU	N-CA-C	6.02	118.61	111.33
1	7w	126	VAL	N-CA-C	6.02	117.48	110.62
1	7w	188	THR	N-CA-C	6.02	117.84	111.28
1	7P	47	ALA	N-CA-CB	6.02	118.81	109.97
1	7U	212	GLU	N-CA-C	6.02	117.84	111.28
1	84	112	GLN	CA-C-N	6.02	128.26	120.44
1	84	112	GLN	C-N-CA	6.02	128.26	120.44
1	88	146	SER	CA-C-N	6.02	125.73	119.05
1	88	146	SER	C-N-CA	6.02	125.73	119.05
1	8v	5	ASN	CA-CB-CG	6.02	118.62	112.60
1	8H	184	TRP	CD2-CE2-CZ2	-6.02	116.38	122.40
1	8T	67	GLN	CA-C-O	6.02	127.34	120.90
1	97	133	TRP	CB-CG-CD2	6.02	135.22	126.80
1	9j	7	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	9l	27	VAL	N-CA-C	6.02	116.76	110.62
1	9W	119	THR	CA-C-O	6.02	126.60	119.56
1	10	155	GLN	O-C-N	-6.02	116.47	123.27
1	15	173	ARG	NH1-CZ-NH2	-6.02	111.48	119.30
1	aZ	12	HIS	ND1-CG-CD2	-6.02	100.08	106.10
1	b5	148	THR	CA-CB-OG1	6.02	118.62	109.60
1	bc	179	GLN	N-CA-CB	-6.02	101.28	110.01
1	bd	87	HIS	CA-CB-CG	6.02	119.82	113.80
1	bx	197	ASP	CA-C-N	6.02	128.84	120.29
1	bx	197	ASP	C-N-CA	6.02	128.84	120.29
1	bK	175	GLU	O-C-N	-6.02	115.53	122.93
1	c4	17	PRO	N-CA-C	-6.02	106.34	113.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cp	153	ILE	CA-C-O	6.02	126.89	119.43
1	cu	54	THR	CA-C-N	6.02	128.59	120.65
1	cu	54	THR	C-N-CA	6.02	128.59	120.65
1	cF	11	VAL	CA-CB-CG1	-6.02	100.17	110.40
1	1h	75	GLU	N-CA-C	6.02	117.84	111.28
1	1h	182	LYS	CA-C-N	6.02	128.26	120.44
1	1h	182	LYS	C-N-CA	6.02	128.26	120.44
1	cU	217	ALA	N-CA-C	6.02	118.53	110.35
1	cY	48	THR	CA-C-N	-6.02	113.42	119.56
1	cY	48	THR	C-N-CA	-6.02	113.42	119.56
1	d1	78	ALA	CA-C-O	6.02	126.90	120.70
1	de	100	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	e1	39	MET	O-C-N	6.02	128.59	122.09
1	e7	227	LYS	CA-C-O	6.02	126.89	119.97
1	e9	227	LYS	N-CA-C	6.02	117.84	111.28
1	1p	53	ASN	CA-C-N	6.02	128.84	120.29
1	1p	53	ASN	C-N-CA	6.02	128.84	120.29
1	eh	95	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	eo	69	LEU	CA-C-N	6.02	128.34	120.28
1	eo	69	LEU	C-N-CA	6.02	128.34	120.28
1	er	139	ASN	O-C-N	-6.02	115.74	122.12
1	ew	152	ASP	N-CA-C	-6.02	105.59	113.17
1	ew	201	ILE	CB-CG1-CD1	6.02	126.44	113.80
1	ex	143	ARG	CA-C-N	6.02	128.34	120.28
1	ex	143	ARG	C-N-CA	6.02	128.34	120.28
1	eC	21	ASN	CA-CB-CG	6.02	118.62	112.60
1	eI	92	GLU	CA-C-N	6.02	127.36	119.84
1	eI	92	GLU	C-N-CA	6.02	127.36	119.84
1	eL	185	MET	CA-C-N	6.02	128.66	120.54
1	eL	185	MET	C-N-CA	6.02	128.66	120.54
1	eP	158	LYS	N-CA-C	6.02	120.37	112.13
1	eW	102	SER	N-CA-C	6.02	117.84	111.28
1	f1	71	GLU	N-CA-CB	6.02	118.73	110.01
1	fe	57	ASN	CA-CB-CG	-6.02	106.58	112.60
1	fp	135	ILE	N-CA-C	6.02	118.57	111.05
1	fq	83	LEU	N-CA-C	6.02	117.84	111.28
1	fu	103	ASP	O-C-N	6.02	128.27	122.07
1	fZ	226	HIS	N-CA-C	6.02	119.06	110.10
1	g1	132	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	g5	37	ILE	CB-CA-C	6.02	119.42	113.70
1	g	156	GLY	O-C-N	-6.02	115.75	121.77
1	k	54	THR	N-CA-C	6.02	117.51	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	168	PHE	CA-CB-CG	-6.02	107.78	113.80
1	2	106	GLY	O-C-N	-6.02	115.40	122.50
1	x	126	VAL	N-CA-C	6.02	116.76	110.62
1	C	93	PRO	N-CA-C	6.02	120.95	111.38
1	F	176	GLN	OE1-CD-NE2	-6.02	116.58	122.60
1	9	87	HIS	CA-C-N	6.02	129.26	120.71
1	9	87	HIS	C-N-CA	6.02	129.26	120.71
1	h1	9	GLN	CB-CG-CD	6.02	122.83	112.60
1	h8	178	SER	CA-C-N	6.02	128.66	120.54
1	h8	178	SER	C-N-CA	6.02	128.66	120.54
1	hA	12	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	hJ	58	THR	N-CA-CB	6.02	119.60	110.28
1	1P	87	HIS	CE1-NE2-CD2	-6.02	102.98	109.00
1	is	42	ALA	CB-CA-C	-6.02	100.80	110.79
1	iI	107	THR	N-CA-CB	6.02	119.52	110.19
1	iU	4	GLN	CA-C-N	6.02	129.41	120.87
1	iU	4	GLN	C-N-CA	6.02	129.41	120.87
1	jm	15	ILE	O-C-N	-6.02	116.25	122.63
1	jZ	188	THR	CA-C-O	-6.02	112.31	119.35
1	1Z	169	TYR	CA-C-N	6.02	128.34	120.28
1	1Z	169	TYR	C-N-CA	6.02	128.34	120.28
1	20	101	GLY	N-CA-C	6.02	121.12	113.24
1	kZ	222	GLY	O-C-N	-6.02	116.85	123.05
1	l0	197	ASP	CA-CB-CG	-6.02	106.58	112.60
1	l7	199	LYS	CA-C-O	-6.02	113.30	120.10
1	lc	230	VAL	N-CA-CB	6.02	118.83	112.21
1	3I	178	SER	CA-C-N	6.02	128.34	120.28
1	3I	178	SER	C-N-CA	6.02	128.34	120.28
1	3L	68	MET	O-C-N	-6.02	115.74	122.12
1	3V	24	VAL	CA-CB-CG1	6.02	120.63	110.40
1	4f	23	TRP	N-CA-CB	6.02	119.06	110.16
1	4G	23	TRP	N-CA-C	6.02	117.51	111.07
1	4O	39	MET	N-CA-CB	6.02	119.06	110.16
1	56	104	ILE	CB-CA-C	-6.02	102.51	112.26
1	5j	74	ASN	CA-C-O	6.02	126.90	120.70
1	5w	101	GLY	O-C-N	6.02	127.97	122.19
1	6d	18	ARG	NE-CZ-NH2	-6.02	113.78	119.20
1	6I	63	GLN	N-CA-CB	6.02	118.79	110.07
1	71	163	ASP	CA-C-N	6.02	128.26	120.44
1	71	163	ASP	C-N-CA	6.02	128.26	120.44
1	7X	229	ARG	NE-CZ-NH2	6.02	124.61	119.20
1	83	94	GLY	CA-C-O	6.02	127.20	119.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	85	26	VAL	CA-C-O	-6.02	114.69	120.95
1	8i	152	ASP	CA-CB-CG	-6.02	106.58	112.60
1	8x	228	ALA	N-CA-CB	-6.02	101.58	110.85
1	8B	33	SER	O-C-N	-6.02	115.60	121.56
1	8L	84	HIS	CG-CD2-NE2	6.02	113.22	107.20
1	9c	156	GLY	CA-C-N	6.02	125.57	119.19
1	9c	156	GLY	C-N-CA	6.02	125.57	119.19
1	bc	206	GLY	O-C-N	-6.02	115.75	121.77
1	bE	21	ASN	CA-C-O	6.02	126.89	119.79
1	1c	206	GLY	O-C-N	-6.02	115.75	121.77
1	cj	65	ALA	N-CA-C	6.02	117.84	111.28
1	cy	47	ALA	CA-C-N	6.02	129.82	120.68
1	cy	47	ALA	C-N-CA	6.02	129.82	120.68
1	cG	168	PHE	CA-CB-CG	-6.02	107.78	113.80
1	cL	82	ARG	NE-CZ-NH1	6.02	127.52	121.50
1	cQ	199	LYS	N-CA-C	6.02	118.61	111.33
1	cS	142	VAL	CA-CB-CG1	6.02	120.63	110.40
1	cU	74	ASN	CB-CG-ND2	6.02	125.42	116.40
1	ea	106	GLY	O-C-N	-6.02	115.29	122.33
1	et	127	GLY	CA-C-O	-6.02	114.55	120.75
1	eR	7	GLN	CA-C-N	6.02	131.50	120.79
1	eR	7	GLN	C-N-CA	6.02	131.50	120.79
1	eY	203	LYS	CA-C-O	6.02	126.78	119.38
1	f0	88	ALA	CA-C-O	6.02	125.67	119.05
1	fC	192	GLN	N-CA-C	6.02	118.63	111.71
1	fJ	55	MET	O-C-N	-6.02	115.87	122.07
1	fN	188	THR	N-CA-C	6.02	117.69	108.12
1	fQ	170	LYS	CA-C-N	6.02	128.34	120.28
1	fQ	170	LYS	C-N-CA	6.02	128.34	120.28
1	1A	166	ASP	N-CA-C	6.02	117.51	111.07
1	B	36	VAL	O-C-N	-6.02	115.63	121.83
1	F	42	ALA	CA-C-O	6.02	126.93	120.55
1	F	215	MET	CG-SD-CE	-6.02	87.67	100.90
1	K	70	LYS	N-CA-C	6.02	117.51	111.07
1	R	212	GLU	CA-C-N	6.02	128.66	120.54
1	R	212	GLU	C-N-CA	6.02	128.66	120.54
1	5	59	VAL	CA-C-O	6.02	127.84	120.74
1	8	149	SER	CA-C-O	6.02	125.14	118.52
1	gI	50	GLN	N-CA-C	6.01	117.84	111.28
1	gS	18	ARG	O-C-N	-6.01	115.75	122.12
1	h3	23	TRP	CA-CB-CG	6.01	125.03	113.60
1	h5	159	GLU	O-C-N	-6.01	115.82	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	136	LEU	CA-C-N	6.01	126.50	119.94
1	ha	136	LEU	C-N-CA	6.01	126.50	119.94
1	ht	33	SER	CA-C-O	-6.01	111.92	120.16
1	hF	72	THR	O-C-N	-6.01	115.83	122.09
1	hG	117	TRP	CB-CG-CD1	-6.01	117.88	126.90
1	hS	131	LYS	N-CA-C	6.01	117.84	111.28
1	hU	181	VAL	CA-C-N	6.01	128.26	120.44
1	hU	181	VAL	C-N-CA	6.01	128.26	120.44
1	i1	195	ASN	CA-CB-CG	6.01	118.61	112.60
1	il	84	HIS	CE1-NE2-CD2	-6.01	102.98	109.00
1	iy	217	ALA	CA-C-N	6.01	131.20	122.36
1	iy	217	ALA	C-N-CA	6.01	131.20	122.36
1	iD	47	ALA	N-CA-C	6.01	119.18	110.28
1	iE	91	ILE	O-C-N	-6.01	116.70	123.20
1	iJ	85	PRO	CA-C-N	6.01	129.27	120.91
1	iJ	85	PRO	C-N-CA	6.01	129.27	120.91
1	iX	99	PRO	O-C-N	6.01	129.83	123.03
1	j2	68	MET	O-C-N	-6.01	115.88	122.07
1	ja	163	ASP	CA-CB-CG	-6.01	106.58	112.60
1	1U	57	ASN	CA-CB-CG	-6.01	106.59	112.60
1	ji	164	TYR	CA-C-N	6.01	128.70	120.46
1	ji	164	TYR	C-N-CA	6.01	128.70	120.46
1	jz	144	MET	N-CA-C	6.01	120.46	113.18
1	jR	54	THR	CA-C-N	6.01	128.26	120.44
1	jR	54	THR	C-N-CA	6.01	128.26	120.44
1	k0	114	GLN	CA-C-O	-6.01	114.50	120.82
1	kE	50	GLN	CB-CG-CD	6.01	122.82	112.60
1	kO	26	VAL	CA-C-N	6.01	128.96	120.42
1	kO	26	VAL	C-N-CA	6.01	128.96	120.42
1	kR	97	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	l4	19	THR	O-C-N	-6.01	115.74	122.12
1	l7	215	MET	N-CA-C	6.01	117.83	111.28
1	la	126	VAL	N-CA-C	6.01	118.57	111.05
1	lh	170	LYS	CA-C-N	6.01	128.83	120.29
1	lh	170	LYS	C-N-CA	6.01	128.83	120.29
1	ll	77	ALA	N-CA-C	6.01	117.92	111.36
1	lI	158	LYS	N-CA-C	-6.01	104.59	112.41
1	2f	140	LYS	N-CA-CB	6.01	118.96	110.12
1	2g	6	LEU	N-CA-C	6.01	118.61	111.33
1	2u	103	ASP	CA-CB-CG	-6.01	106.58	112.60
1	2Z	138	LEU	N-CA-C	6.01	117.84	111.28
1	3e	145	TYR	CB-CA-C	6.01	120.13	110.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3l	175	GLU	O-C-N	-6.01	116.18	123.16
1	3q	81	ASP	N-CA-C	6.01	117.83	111.28
1	3L	203	LYS	CA-C-N	6.01	128.34	120.28
1	3L	203	LYS	C-N-CA	6.01	128.34	120.28
1	3O	59	VAL	CA-CB-CG2	6.01	120.62	110.40
1	3T	41	SER	CA-C-N	6.01	128.62	120.44
1	3T	41	SER	C-N-CA	6.01	128.62	120.44
1	3Z	177	ALA	CA-C-N	6.01	129.25	120.71
1	3Z	177	ALA	C-N-CA	6.01	129.25	120.71
1	41	164	TYR	O-C-N	-6.01	115.88	122.07
1	44	181	VAL	O-C-N	-6.01	115.64	121.83
1	4x	23	TRP	CB-CG-CD1	-6.01	117.88	126.90
1	4G	43	LEU	N-CA-C	6.01	117.84	111.28
1	50	2	ILE	N-CA-C	6.01	118.29	109.63
1	53	133	TRP	CA-C-N	6.01	128.70	120.46
1	53	133	TRP	C-N-CA	6.01	128.70	120.46
1	5g	87	HIS	N-CA-CB	-6.01	101.20	110.04
1	5j	229	ARG	NE-CZ-NH1	6.01	127.52	121.50
1	5r	138	LEU	CB-CA-C	-6.01	100.81	110.79
1	5J	78	ALA	N-CA-C	6.01	117.50	111.07
1	6a	170	LYS	O-C-N	-6.01	115.74	122.12
1	6r	60	GLY	O-C-N	-6.01	114.88	122.70
1	6z	35	GLU	CA-C-N	6.01	128.26	120.56
1	6z	35	GLU	C-N-CA	6.01	128.26	120.56
1	6A	220	GLY	CA-C-O	6.01	127.25	120.03
1	6D	67	GLN	N-CA-C	6.01	117.84	111.28
1	6I	160	PRO	CA-C-N	6.01	128.34	120.28
1	6I	160	PRO	C-N-CA	6.01	128.34	120.28
1	6O	25	LYS	O-C-N	-6.01	115.75	122.12
1	6Q	86	VAL	O-C-N	-6.01	116.42	122.62
1	6U	12	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	76	37	ILE	O-C-N	-6.01	116.57	120.42
1	7b	123	PRO	CB-CA-C	6.01	118.93	111.23
1	7d	71	GLU	CA-C-N	6.01	128.34	120.28
1	7d	71	GLU	C-N-CA	6.01	128.34	120.28
1	7d	109	SER	O-C-N	-6.01	116.18	123.10
1	7C	150	ILE	N-CA-C	6.01	116.75	110.62
1	7K	151	LEU	N-CA-C	6.01	118.63	111.71
1	8l	87	HIS	CE1-NE2-CD2	-6.01	102.98	109.00
1	8q	206	GLY	CA-C-N	6.01	126.12	119.87
1	8q	206	GLY	C-N-CA	6.01	126.12	119.87
1	8I	164	TYR	N-CA-C	6.01	117.92	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8V	150	ILE	CA-C-N	6.01	128.34	120.28
1	8V	150	ILE	C-N-CA	6.01	128.34	120.28
1	a8	220	GLY	CA-C-N	6.01	131.52	122.98
1	a8	220	GLY	C-N-CA	6.01	131.52	122.98
1	ae	122	PRO	N-CD-CG	-6.01	96.58	103.80
1	af	156	GLY	CA-C-O	-6.01	112.92	121.52
1	ap	199	LYS	CB-CA-C	6.01	120.32	110.88
1	aC	105	ALA	O-C-N	-6.01	114.37	122.43
1	14	4	GLN	CA-C-N	6.01	129.65	121.05
1	14	4	GLN	C-N-CA	6.01	129.65	121.05
1	aO	74	ASN	CA-C-O	-6.01	114.04	120.42
1	aQ	210	THR	N-CA-C	6.01	118.47	110.53
1	aZ	41	SER	N-CA-C	-6.01	104.63	111.07
1	bf	32	PHE	CA-C-O	6.01	127.47	120.49
1	bw	172	LEU	CA-C-N	6.01	128.26	120.44
1	bw	172	LEU	C-N-CA	6.01	128.26	120.44
1	bL	77	ALA	CA-C-O	-6.01	114.17	120.55
1	bO	95	GLN	O-C-N	-6.01	116.18	123.10
1	bU	52	LEU	CA-C-N	6.01	128.34	120.28
1	bU	52	LEU	C-N-CA	6.01	128.34	120.28
1	c9	131	LYS	CA-C-N	6.01	128.26	120.44
1	c9	131	LYS	C-N-CA	6.01	128.26	120.44
1	ch	84	HIS	CA-C-N	6.01	127.36	119.84
1	ch	84	HIS	C-N-CA	6.01	127.36	119.84
1	cl	106	GLY	O-C-N	-6.01	115.79	122.47
1	cs	150	ILE	CA-C-N	6.01	128.83	120.29
1	cs	150	ILE	C-N-CA	6.01	128.83	120.29
1	cv	163	ASP	CA-CB-CG	-6.01	106.58	112.60
1	cB	59	VAL	N-CA-C	6.01	117.05	108.93
1	cB	208	ALA	CA-C-O	6.01	126.60	119.56
1	cM	201	ILE	CA-CB-CG1	6.01	120.62	110.40
1	cX	179	GLN	CB-CG-CD	6.01	122.83	112.60
1	d3	41	SER	CA-C-N	6.01	128.34	120.28
1	d3	41	SER	C-N-CA	6.01	128.34	120.28
1	d6	64	ALA	CA-C-O	6.01	126.92	120.55
1	d8	37	ILE	CA-C-N	6.01	125.41	118.85
1	d8	37	ILE	C-N-CA	6.01	125.41	118.85
1	d8	192	GLN	OE1-CD-NE2	-6.01	116.58	122.60
1	dP	155	GLN	CA-C-O	-6.01	114.60	121.40
1	eT	52	LEU	N-CA-C	6.01	117.84	111.28
1	f4	148	THR	CA-CB-OG1	6.01	118.62	109.60
1	f8	126	VAL	N-CA-CB	6.01	118.72	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	112	GLN	OE1-CD-NE2	-6.01	116.58	122.60
1	fh	174	ALA	CA-C-N	6.01	129.90	121.24
1	fh	174	ALA	C-N-CA	6.01	129.90	121.24
1	fx	156	GLY	CA-C-O	-6.01	112.92	121.52
1	fA	148	THR	CA-C-N	6.01	132.87	122.64
1	fA	148	THR	C-N-CA	6.01	132.87	122.64
1	fR	156	GLY	O-C-N	-6.01	117.01	122.42
1	g2	25	LYS	N-CA-C	6.01	117.83	111.28
1	b	155	GLN	O-C-N	-6.01	115.55	122.89
1	g	143	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	M	211	LEU	N-CA-C	6.01	117.83	111.28
1	S	122	PRO	N-CD-CG	6.01	111.02	103.80
1	T	62	HIS	CE1-NE2-CD2	-6.01	102.98	109.00
1	gw	1	PRO	CB-CA-C	6.01	121.52	110.10
1	gY	48	THR	CA-CB-OG1	6.01	118.62	109.60
1	hW	179	GLN	CA-C-N	6.01	128.34	120.28
1	hW	179	GLN	C-N-CA	6.01	128.34	120.28
1	iB	182	LYS	O-C-N	-6.01	115.75	122.12
1	iL	71	GLU	CA-C-N	6.01	128.26	120.44
1	iL	71	GLU	C-N-CA	6.01	128.26	120.44
1	iO	99	PRO	CA-C-N	6.01	131.03	120.87
1	iO	99	PRO	C-N-CA	6.01	131.03	120.87
1	jb	178	SER	O-C-N	-6.01	115.41	122.81
1	jn	190	LEU	N-CA-C	6.01	120.78	112.90
1	jM	219	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	jQ	118	MET	CA-C-O	6.01	126.71	119.61
1	k5	57	ASN	N-CA-C	-6.01	105.94	113.28
1	kU	205	LEU	N-CA-CB	6.01	118.73	110.01
1	lt	184	TRP	CE2-CD2-CE3	-6.01	112.79	118.80
1	lA	14	ALA	N-CA-C	6.01	117.81	110.41
1	2J	48	THR	CA-CB-OG1	6.01	118.62	109.60
1	3d	183	ASN	CA-C-N	6.01	128.34	120.28
1	3d	183	ASN	C-N-CA	6.01	128.34	120.28
1	4D	48	THR	N-CA-CB	6.01	119.11	110.03
1	4D	199	LYS	CA-C-N	6.01	128.94	120.28
1	4D	199	LYS	C-N-CA	6.01	128.94	120.28
1	4V	149	SER	O-C-N	-6.01	115.25	122.65
1	5g	28	GLU	CB-CA-C	-6.01	101.44	110.88
1	5i	90	PRO	CA-C-N	6.01	128.56	120.50
1	5i	90	PRO	C-N-CA	6.01	128.56	120.50
1	5t	14	ALA	N-CA-CB	6.01	119.54	109.92
1	5K	88	ALA	O-C-N	-6.01	117.51	123.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5K	213	GLU	N-CA-C	6.01	119.81	112.23
1	5T	48	THR	N-CA-C	-6.01	102.30	110.36
1	5X	28	GLU	O-C-N	-6.01	115.65	122.08
1	6n	213	GLU	O-C-N	-6.01	115.65	122.08
1	6C	162	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	78	54	THR	CA-C-N	6.01	128.34	120.28
1	78	54	THR	C-N-CA	6.01	128.34	120.28
1	79	21	ASN	N-CA-C	6.01	117.83	111.28
1	7G	210	THR	CA-C-O	-6.01	115.01	121.56
1	8x	97	ARG	CG-CD-NE	-6.01	98.77	112.00
1	9a	195	ASN	CA-C-O	-6.01	114.45	120.64
1	9c	141	ILE	O-C-N	-6.01	116.04	121.87
1	9x	65	ALA	O-C-N	-6.01	115.88	122.07
1	aw	209	ALA	CA-C-O	6.01	128.11	121.56
1	b6	62	HIS	ND1-CG-CD2	6.01	112.11	106.10
1	bm	209	ALA	CA-C-O	-6.01	113.89	120.81
1	c3	82	ARG	CA-C-N	6.01	129.15	120.79
1	c3	82	ARG	C-N-CA	6.01	129.15	120.79
1	cm	126	VAL	N-CA-C	6.01	116.75	110.62
1	cZ	17	PRO	N-CA-CB	6.01	108.91	103.20
1	dZ	114	GLN	O-C-N	6.01	128.49	122.12
1	1q	54	THR	CA-C-N	6.01	128.34	120.28
1	1q	54	THR	C-N-CA	6.01	128.34	120.28
1	f5	219	GLN	CB-CG-CD	-6.01	102.38	112.60
1	1v	88	ALA	N-CA-C	6.01	118.53	110.35
1	1v	181	VAL	CA-C-N	6.01	128.34	120.28
1	1v	181	VAL	C-N-CA	6.01	128.34	120.28
1	fb	97	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	fJ	67	GLN	CB-CA-C	-6.01	100.63	110.85
1	fY	22	ALA	CA-C-N	6.01	128.83	120.29
1	fY	22	ALA	C-N-CA	6.01	128.83	120.29
1	g1	32	PHE	O-C-N	-6.01	116.22	123.13
1	m	156	GLY	CA-C-O	-6.01	112.92	121.52
1	3	167	ARG	CA-CB-CG	6.01	126.13	114.10
1	U	33	SER	O-C-N	-6.01	116.24	121.71
1	g9	185	MET	CA-C-N	6.01	128.34	120.28
1	g9	185	MET	C-N-CA	6.01	128.34	120.28
1	gd	141	ILE	O-C-N	-6.01	115.80	121.87
1	gZ	156	GLY	O-C-N	-6.01	115.76	121.77
1	ht	73	ILE	N-CA-C	6.01	116.75	110.62
1	hx	58	THR	O-C-N	-6.01	115.19	122.22
1	hH	22	ALA	N-CA-C	-6.01	105.03	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hO	79	GLU	N-CA-CB	6.01	118.73	110.01
1	hR	53	ASN	CA-C-O	-6.01	114.18	120.55
1	hV	30	LYS	CB-CA-C	-6.01	100.05	110.09
1	hV	130	TYR	CA-C-O	6.01	127.13	120.82
1	hX	223	GLY	O-C-N	-6.01	115.76	121.77
1	hY	158	LYS	N-CA-C	-6.01	104.39	113.89
1	i2	80	TRP	CB-CG-CD1	-6.01	117.88	126.90
1	id	123	PRO	CB-CA-C	6.01	119.23	110.63
1	ie	205	LEU	CA-C-O	6.01	126.92	120.55
1	iq	21	ASN	N-CA-C	6.01	117.50	111.07
1	1Q	112	GLN	CB-CA-C	6.01	120.32	110.88
1	iE	54	THR	N-CA-C	6.01	117.83	111.28
1	1S	227	LYS	N-CA-C	6.01	118.53	110.35
1	j1	146	SER	CA-C-O	-6.01	114.10	120.23
1	jm	169	TYR	CB-CG-CD2	-6.01	111.78	120.80
1	jo	84	HIS	CA-C-O	-6.01	114.90	119.59
1	jr	144	MET	CA-C-O	6.01	126.92	120.55
1	jD	66	MET	CB-CA-C	-6.01	101.44	110.88
1	jM	104	ILE	O-C-N	6.01	127.70	121.87
1	jN	183	ASN	OD1-CG-ND2	-6.01	116.59	122.60
1	jT	209	ALA	O-C-N	-6.01	115.42	122.81
1	k0	207	PRO	N-CA-C	6.01	121.42	114.03
1	k4	80	TRP	CA-C-O	6.01	126.76	119.49
1	k5	44	SER	N-CA-C	-6.01	105.87	112.72
1	k9	141	ILE	CA-CB-CG1	6.01	120.62	110.40
1	kk	49	PRO	N-CA-CB	6.01	109.56	103.25
1	kp	120	HIS	ND1-CE1-NE2	6.01	114.41	108.40
1	kD	90	PRO	N-CA-C	6.01	120.65	111.15
1	kG	226	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	kH	143	ARG	O-C-N	-6.01	115.88	122.07
1	24	103	ASP	CA-C-N	6.01	128.70	120.46
1	24	103	ASP	C-N-CA	6.01	128.70	120.46
1	kV	171	THR	CA-CB-CG2	6.01	120.72	110.50
1	l6	144	MET	N-CA-C	6.01	117.83	111.28
1	le	161	PHE	O-C-N	-6.01	115.30	122.15
1	li	87	HIS	CB-CG-CD2	-6.01	123.39	131.20
1	lj	100	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	lv	62	HIS	N-CA-C	6.01	123.61	110.80
1	lO	162	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	lQ	192	GLN	N-CA-C	6.01	117.83	111.28
1	2l	78	ALA	N-CA-C	6.01	117.63	111.14
1	2p	6	LEU	CA-C-N	6.01	129.83	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2p	6	LEU	C-N-CA	6.01	129.83	120.75
1	2L	148	THR	N-CA-C	6.01	117.81	109.15
1	31	36	VAL	CA-C-N	6.01	124.03	120.24
1	31	36	VAL	C-N-CA	6.01	124.03	120.24
1	31	132	ARG	N-CA-CB	6.01	118.96	110.12
1	3k	41	SER	O-C-N	6.01	129.00	122.15
1	3u	66	MET	N-CA-C	6.01	117.83	111.28
1	3B	28	GLU	N-CA-C	6.01	118.35	111.02
1	3E	60	GLY	CA-C-O	6.01	126.52	120.09
1	3E	112	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	3I	194	ALA	CA-C-N	6.01	128.75	120.39
1	3I	194	ALA	C-N-CA	6.01	128.75	120.39
1	3Q	53	ASN	CA-CB-CG	-6.01	106.59	112.60
1	3Q	187	GLU	CB-CG-CD	6.01	122.82	112.60
1	45	161	PHE	CA-CB-CG	6.01	119.81	113.80
1	47	34	PRO	CA-C-N	6.01	131.66	121.14
1	47	34	PRO	C-N-CA	6.01	131.66	121.14
1	4a	49	PRO	CB-CA-C	6.01	121.48	111.56
1	4C	12	HIS	CB-CG-CD2	-6.01	123.39	131.20
1	4Q	183	ASN	N-CA-C	6.01	117.91	111.36
1	4U	11	VAL	CA-C-N	6.01	129.92	121.02
1	4U	11	VAL	C-N-CA	6.01	129.92	121.02
1	5f	17	PRO	CA-C-N	6.01	128.25	120.44
1	5f	17	PRO	C-N-CA	6.01	128.25	120.44
1	5h	180	GLU	N-CA-CB	6.01	118.73	110.01
1	5K	9	GLN	CB-CG-CD	6.01	122.82	112.60
1	5N	168	PHE	O-C-N	-6.01	115.88	122.07
1	5S	18	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	5Z	213	GLU	CA-C-N	6.01	128.34	120.28
1	5Z	213	GLU	C-N-CA	6.01	128.34	120.28
1	6z	99	PRO	O-C-N	-6.01	116.66	123.03
1	6I	15	ILE	O-C-N	-6.01	116.10	122.83
1	6Z	102	SER	N-CA-C	6.01	118.62	111.71
1	75	23	TRP	CB-CG-CD2	6.01	135.22	126.80
1	7G	76	GLU	N-CA-C	6.01	117.83	111.28
1	7M	151	LEU	O-C-N	-6.01	115.60	122.09
1	7Q	184	TRP	O-C-N	-6.01	115.19	122.22
1	7U	12	HIS	CB-CG-ND1	6.01	131.72	122.70
1	7U	126	VAL	N-CA-CB	6.01	117.18	110.51
1	7X	154	ARG	CD-NE-CZ	6.01	132.82	124.40
1	84	20	LEU	N-CA-C	6.01	118.61	111.33
1	8c	40	PHE	CA-CB-CG	6.01	119.81	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8F	183	ASN	CA-CB-CG	6.01	118.61	112.60
1	8I	156	GLY	CA-C-O	-6.01	112.92	121.52
1	8K	27	VAL	CA-C-O	6.01	127.31	119.85
1	8O	34	PRO	O-C-N	-6.01	114.52	122.64
1	8X	121	ASN	CB-CA-C	-6.01	102.08	110.13
1	93	181	VAL	CA-CB-CG1	6.01	120.62	110.40
1	9s	54	THR	N-CA-C	-6.01	104.73	111.28
1	9B	192	GLN	N-CA-C	6.01	117.83	111.28
1	9F	120	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	9H	92	GLU	CA-C-O	-6.01	112.51	118.34
1	9P	164	TYR	N-CA-C	6.01	117.91	111.36
1	a0	24	VAL	CA-C-O	6.01	127.00	120.57
1	aq	174	ALA	CA-C-N	6.01	129.83	120.75
1	aq	174	ALA	C-N-CA	6.01	129.83	120.75
1	12	162	ARG	N-CA-C	6.01	117.83	111.28
1	aP	70	LYS	N-CA-C	6.01	117.83	111.28
1	16	48	THR	CA-C-N	6.01	127.35	119.84
1	16	48	THR	C-N-CA	6.01	127.35	119.84
1	ba	146	SER	CA-C-O	6.01	125.07	119.24
1	by	118	MET	N-CA-C	6.01	119.87	112.54
1	19	139	ASN	N-CA-C	6.01	118.60	111.33
1	bI	97	ARG	N-CA-C	6.01	118.53	110.35
1	bK	221	VAL	CA-CB-CG2	6.01	120.62	110.40
1	bP	62	HIS	ND1-CG-CD2	6.01	112.11	106.10
1	bU	112	GLN	N-CA-C	-6.01	104.81	111.36
1	c6	211	LEU	CA-C-N	6.01	128.34	120.28
1	c6	211	LEU	C-N-CA	6.01	128.34	120.28
1	cd	185	MET	CA-C-N	6.01	129.45	120.31
1	cd	185	MET	C-N-CA	6.01	129.45	120.31
1	cw	62	HIS	O-C-N	-6.01	115.47	122.86
1	cB	192	GLN	O-C-N	-6.01	114.55	122.42
1	cW	31	ALA	N-CA-C	6.01	123.60	110.80
1	cX	190	LEU	N-CA-C	6.01	118.35	111.02
1	df	32	PHE	CA-CB-CG	-6.01	107.79	113.80
1	dk	166	ASP	CA-CB-CG	6.01	118.61	112.60
1	1k	28	GLU	N-CA-C	6.01	117.50	111.07
1	dq	182	LYS	CA-C-O	6.01	126.92	120.55
1	dA	160	PRO	CA-C-N	6.01	128.34	120.28
1	dA	160	PRO	C-N-CA	6.01	128.34	120.28
1	dF	91	ILE	CA-C-O	-6.01	113.61	119.92
1	dI	41	SER	N-CA-C	6.01	117.83	111.28
1	e2	132	ARG	CG-CD-NE	-6.01	98.77	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ea	57	ASN	CA-CB-CG	6.01	118.61	112.60
1	eo	154	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	ez	117	TRP	CA-C-O	6.01	126.92	120.55
1	fg	71	GLU	N-CA-C	6.01	118.61	111.33
1	fl	210	THR	CA-C-N	6.01	128.34	120.28
1	fl	210	THR	C-N-CA	6.01	128.34	120.28
1	fu	90	PRO	CB-CA-C	6.01	119.19	111.56
1	fy	21	ASN	CA-CB-CG	-6.01	106.59	112.60
1	1z	48	THR	CA-C-O	-6.01	114.15	120.70
1	g2	72	THR	CA-C-O	6.01	127.33	120.90
1	1B	26	VAL	CA-C-N	6.01	128.25	120.56
1	1B	26	VAL	C-N-CA	6.01	128.25	120.56
1	y	110	THR	CA-CB-OG1	6.01	118.62	109.60
1	3	25	LYS	N-CA-C	6.01	118.79	111.82
1	H	130	TYR	CA-C-N	6.01	128.34	120.28
1	H	130	TYR	C-N-CA	6.01	128.34	120.28
1	gb	152	ASP	CA-C-N	6.01	128.69	120.46
1	gb	152	ASP	C-N-CA	6.01	128.69	120.46
1	gc	99	PRO	N-CA-C	6.01	120.28	111.03
1	gF	40	PHE	CA-CB-CG	-6.01	107.79	113.80
1	gI	120	HIS	CA-CB-CG	6.01	119.81	113.80
1	gJ	84	HIS	O-C-N	-6.01	114.78	120.85
1	gS	33	SER	CA-C-O	-6.01	113.90	120.87
1	gT	121	ASN	OD1-CG-ND2	6.01	128.61	122.60
1	gZ	48	THR	CA-CB-OG1	6.01	118.61	109.60
1	hi	56	LEU	CB-CA-C	-6.01	99.51	110.63
1	hi	165	VAL	CA-C-N	6.01	128.33	120.28
1	hi	165	VAL	C-N-CA	6.01	128.33	120.28
1	hp	139	ASN	CA-C-N	6.01	128.25	120.44
1	hp	139	ASN	C-N-CA	6.01	128.25	120.44
1	hq	140	LYS	CA-C-O	6.01	126.79	120.42
1	hu	4	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	hJ	123	PRO	N-CA-C	6.01	120.77	111.21
1	hJ	205	LEU	N-CA-C	6.01	117.91	111.36
1	hK	115	ILE	CA-C-N	6.01	126.78	119.99
1	hK	115	ILE	C-N-CA	6.01	126.78	119.99
1	hM	140	LYS	CA-CB-CG	6.01	126.12	114.10
1	hO	12	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	1M	36	VAL	N-CA-C	6.01	116.79	110.72
1	hW	58	THR	CA-CB-OG1	6.01	118.61	109.60
1	1N	109	SER	N-CA-C	6.01	119.17	110.28
1	i8	29	GLU	O-C-N	-6.01	114.42	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ij	63	GLN	O-C-N	6.01	128.28	122.03
1	iG	86	VAL	O-C-N	-6.01	116.56	122.93
1	iN	169	TYR	N-CA-C	6.01	118.79	111.82
1	j5	11	VAL	CB-CA-C	6.01	118.11	111.08
1	j7	223	GLY	CA-C-N	6.01	126.36	119.93
1	j7	223	GLY	C-N-CA	6.01	126.36	119.93
1	jh	43	LEU	N-CA-C	6.01	117.83	111.28
1	jw	14	ALA	N-CA-C	6.01	119.08	110.24
1	jE	59	VAL	CA-CB-CG1	-6.01	100.19	110.40
1	jY	27	VAL	CA-CB-CG1	6.01	120.62	110.40
1	k8	23	TRP	CA-C-N	6.01	128.13	120.56
1	k8	23	TRP	C-N-CA	6.01	128.13	120.56
1	km	84	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	ku	205	LEU	CA-C-O	6.01	127.13	120.82
1	kv	10	MET	CA-C-O	6.01	128.14	121.11
1	kM	142	VAL	O-C-N	-6.01	115.64	121.83
1	26	87	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	lf	62	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	lm	160	PRO	N-CA-C	6.01	120.64	111.15
1	lM	75	GLU	N-CA-CB	6.01	118.72	110.01
1	2g	182	LYS	N-CA-C	6.01	118.32	111.11
1	2l	218	CYS	N-CA-CB	6.01	120.64	110.49
1	2L	63	GLN	N-CA-C	6.01	118.79	111.82
1	2T	92	GLU	O-C-N	-6.01	114.70	121.43
1	2T	111	LEU	N-CA-C	6.01	117.83	111.28
1	3d	93	PRO	N-CA-C	6.01	120.66	111.11
1	3e	140	LYS	CA-C-N	6.01	128.64	120.77
1	3e	140	LYS	C-N-CA	6.01	128.64	120.77
1	3i	180	GLU	N-CA-C	6.01	118.60	111.33
1	3p	21	ASN	OD1-CG-ND2	-6.01	116.59	122.60
1	3J	33	SER	CA-C-N	6.01	125.89	119.28
1	3J	33	SER	C-N-CA	6.01	125.89	119.28
1	45	3	VAL	N-CA-C	6.01	121.84	109.34
1	4G	194	ALA	CA-C-O	6.01	128.90	121.81
1	4P	216	THR	N-CA-CB	6.01	119.72	110.46
1	4S	102	SER	CA-C-N	6.01	128.61	120.44
1	4S	102	SER	C-N-CA	6.01	128.61	120.44
1	50	155	GLN	O-C-N	-6.01	115.01	122.82
1	5t	107	THR	CA-C-O	6.01	126.92	120.55
1	5w	115	ILE	CA-C-N	6.01	126.65	119.98
1	5w	115	ILE	C-N-CA	6.01	126.65	119.98
1	5D	64	ALA	CA-C-N	6.01	128.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	64	ALA	C-N-CA	6.01	128.33	120.28
1	62	190	LEU	CA-C-N	6.01	128.13	120.56
1	62	190	LEU	C-N-CA	6.01	128.13	120.56
1	69	113	GLU	CA-C-N	6.01	128.33	120.28
1	69	113	GLU	C-N-CA	6.01	128.33	120.28
1	6w	9	GLN	O-C-N	-6.01	114.60	122.59
1	6H	43	LEU	N-CA-C	6.01	117.83	111.28
1	6U	12	HIS	N-CA-CB	6.01	118.80	109.85
1	6V	133	TRP	N-CA-C	6.01	117.63	111.14
1	71	72	THR	N-CA-C	-6.01	104.65	111.14
1	7d	200	THR	CA-C-O	6.01	126.89	120.10
1	7e	48	THR	CA-C-O	-6.01	114.41	120.96
1	7m	139	ASN	CB-CA-C	6.01	121.06	110.85
1	7p	122	PRO	CA-C-N	6.01	127.35	119.84
1	7p	122	PRO	C-N-CA	6.01	127.35	119.84
1	7Z	134	ILE	CA-C-N	6.01	128.95	120.42
1	7Z	134	ILE	C-N-CA	6.01	128.95	120.42
1	85	201	ILE	CA-C-N	6.01	128.93	120.28
1	85	201	ILE	C-N-CA	6.01	128.93	120.28
1	8a	5	ASN	CA-CB-CG	-6.01	106.59	112.60
1	8j	48	THR	CA-C-O	-6.01	114.15	120.88
1	8q	73	ILE	N-CA-CB	6.01	118.71	110.54
1	8A	80	TRP	CA-C-N	6.01	128.93	120.28
1	8A	80	TRP	C-N-CA	6.01	128.93	120.28
1	8T	195	ASN	CA-C-N	6.01	125.72	119.05
1	8T	195	ASN	C-N-CA	6.01	125.72	119.05
1	8V	92	GLU	O-C-N	-6.01	115.06	120.71
1	8Y	6	LEU	CD1-CG-CD2	-6.01	97.58	110.80
1	9g	111	LEU	CA-C-O	-6.01	114.47	120.90
1	9x	127	GLY	CA-C-N	6.01	128.61	120.44
1	9x	127	GLY	C-N-CA	6.01	128.61	120.44
1	9U	2	ILE	O-C-N	-6.01	116.93	123.18
1	a4	159	GLU	CA-C-N	6.01	127.35	119.84
1	a4	159	GLU	C-N-CA	6.01	127.35	119.84
1	10	13	GLN	CA-CB-CG	6.01	126.12	114.10
1	12	189	LEU	CB-CA-C	-6.01	100.81	110.79
1	aL	176	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	aP	197	ASP	CA-C-N	6.01	128.33	120.28
1	aP	197	ASP	C-N-CA	6.01	128.33	120.28
1	aU	128	GLU	N-CA-C	6.01	117.83	111.28
1	aV	124	ILE	CA-C-O	-6.01	114.68	119.25
1	b6	65	ALA	N-CA-CB	-6.01	101.27	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b6	73	ILE	CA-C-O	6.01	127.54	121.17
1	bi	185	MET	CA-C-N	6.01	128.94	120.28
1	bi	185	MET	C-N-CA	6.01	128.94	120.28
1	18	167	ARG	CA-C-N	6.01	128.58	120.65
1	18	167	ARG	C-N-CA	6.01	128.58	120.65
1	1a	126	VAL	CA-C-O	-6.01	112.40	119.85
1	bV	49	PRO	N-CA-C	6.01	124.85	112.47
1	bZ	75	GLU	N-CA-C	6.01	117.83	111.28
1	1d	195	ASN	OD1-CG-ND2	-6.01	116.59	122.60
1	1e	223	GLY	CA-C-N	6.01	126.53	120.04
1	1e	223	GLY	C-N-CA	6.01	126.53	120.04
1	cu	112	GLN	CA-C-N	6.01	128.61	120.44
1	cu	112	GLN	C-N-CA	6.01	128.61	120.44
1	cF	184	TRP	O-C-N	-6.01	115.75	122.12
1	cK	162	ARG	O-C-N	-6.01	115.75	122.12
1	cS	183	ASN	CA-CB-CG	-6.01	106.59	112.60
1	1n	56	LEU	O-C-N	-6.01	115.30	122.15
1	ed	31	ALA	CA-C-O	6.01	129.10	120.51
1	1q	152	ASP	CA-CB-CG	-6.01	106.59	112.60
1	em	15	ILE	CA-CB-CG2	6.01	120.72	110.50
1	er	63	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	1t	34	PRO	CA-C-N	6.01	130.31	120.63
1	1t	34	PRO	C-N-CA	6.01	130.31	120.63
1	eT	135	ILE	O-C-N	-6.01	116.02	121.91
1	eX	150	ILE	CA-C-O	6.01	127.20	120.95
1	eX	153	ILE	CA-CB-CG1	-6.01	100.18	110.40
1	1u	117	TRP	CB-CA-C	-6.01	100.81	110.79
1	f4	133	TRP	CD2-CE2-CZ2	-6.01	116.39	122.40
1	fu	134	ILE	CA-C-N	6.01	128.95	120.42
1	fu	134	ILE	C-N-CA	6.01	128.95	120.42
1	fC	101	GLY	O-C-N	-6.01	116.42	122.19
1	1A	143	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	e	81	ASP	CA-CB-CG	-6.01	106.59	112.60
1	h	15	ILE	CB-CA-C	6.01	120.28	111.33
1	q	86	VAL	CA-C-N	6.01	129.36	120.95
1	q	86	VAL	C-N-CA	6.01	129.36	120.95
1	A	105	ALA	N-CA-C	6.01	118.62	111.71
1	4	182	LYS	CA-C-N	6.01	128.33	120.28
1	4	182	LYS	C-N-CA	6.01	128.33	120.28
1	Q	205	LEU	N-CA-C	6.01	118.97	110.50
1	U	229	ARG	CD-NE-CZ	6.01	132.81	124.40
1	gY	169	TYR	CA-C-N	6.01	128.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gY	169	TYR	C-N-CA	6.01	128.33	120.28
1	hM	229	ARG	O-C-N	-6.01	116.38	123.41
1	i6	9	GLN	O-C-N	6.01	128.26	122.07
1	i7	26	VAL	CA-C-O	6.01	127.20	120.95
1	i7	93	PRO	N-CA-C	-6.01	106.84	114.35
1	ia	66	MET	N-CA-CB	6.01	118.72	110.01
1	ip	169	TYR	CA-CB-CG	-6.01	103.08	113.90
1	j0	79	GLU	N-CA-C	6.01	117.50	111.07
1	jm	167	ARG	CA-C-N	6.01	128.58	120.65
1	jm	167	ARG	C-N-CA	6.01	128.58	120.65
1	kc	163	ASP	CA-C-O	6.01	126.92	120.55
1	kS	50	GLN	N-CA-C	6.01	117.83	111.28
1	l5	59	VAL	N-CA-CB	6.01	117.08	110.53
1	le	226	HIS	CA-C-O	-6.01	114.29	120.54
1	lC	226	HIS	CG-CD2-NE2	6.01	113.21	107.20
1	lK	144	MET	CG-SD-CE	-6.01	87.68	100.90
1	lR	18	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	2m	63	GLN	N-CA-C	6.01	117.50	111.07
1	2s	201	ILE	N-CA-C	6.01	116.75	110.62
1	2w	142	VAL	CA-C-N	6.01	128.82	120.29
1	2w	142	VAL	C-N-CA	6.01	128.82	120.29
1	34	185	MET	CA-C-N	6.01	128.25	120.44
1	34	185	MET	C-N-CA	6.01	128.25	120.44
1	3j	99	PRO	N-CA-CB	-6.01	96.94	103.25
1	3y	11	VAL	O-C-N	-6.01	115.61	122.94
1	4I	168	PHE	CA-CB-CG	-6.01	107.79	113.80
1	5G	159	GLU	CA-C-N	6.01	125.97	119.78
1	5G	159	GLU	C-N-CA	6.01	125.97	119.78
1	6v	174	ALA	CA-C-N	6.01	129.15	120.38
1	6v	174	ALA	C-N-CA	6.01	129.15	120.38
1	6x	12	HIS	N-CA-C	-6.01	99.56	108.99
1	6P	218	CYS	CA-C-O	6.01	127.46	120.49
1	7t	32	PHE	CA-CB-CG	-6.01	107.79	113.80
1	7E	57	ASN	CA-CB-CG	6.01	118.61	112.60
1	8b	228	ALA	CA-C-O	6.01	127.61	120.70
1	8h	167	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	8z	82	ARG	CA-C-N	6.01	128.33	120.28
1	8z	82	ARG	C-N-CA	6.01	128.33	120.28
1	8A	94	GLY	O-C-N	-6.01	116.15	122.52
1	8Y	100	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	9d	184	TRP	CB-CG-CD2	-6.01	118.39	126.80
1	9d	216	THR	N-CA-C	6.01	117.83	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ap	86	VAL	CA-CB-CG1	6.01	120.61	110.40
1	aE	7	GLN	N-CA-C	6.01	117.98	108.79
1	bs	133	TRP	CB-CG-CD2	-6.01	118.39	126.80
1	ci	215	MET	N-CA-C	-6.01	105.99	113.38
1	cI	21	ASN	O-C-N	-6.01	115.88	122.07
1	cQ	82	ARG	CA-C-N	6.01	128.65	120.54
1	cQ	82	ARG	C-N-CA	6.01	128.65	120.54
1	dH	229	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	dN	166	ASP	N-CA-C	6.01	118.60	111.33
1	ex	189	LEU	N-CA-C	6.01	118.32	111.11
1	ff	13	GLN	CA-C-N	6.01	129.37	120.90
1	ff	13	GLN	C-N-CA	6.01	129.37	120.90
1	fl	23	TRP	CB-CG-CD2	6.01	135.21	126.80
1	fJ	167	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	1A	124	ILE	CA-C-N	6.01	129.43	120.96
1	1A	124	ILE	C-N-CA	6.01	129.43	120.96
1	i	5	ASN	CA-C-N	6.01	128.82	120.29
1	i	5	ASN	C-N-CA	6.01	128.82	120.29
1	1C	116	GLY	N-CA-C	6.01	119.91	112.64
1	gA	135	ILE	N-CA-C	6.01	116.75	110.62
1	h5	212	GLU	N-CA-CB	-6.01	101.05	110.06
1	h6	204	ALA	N-CA-C	6.01	118.79	111.82
1	ha	5	ASN	CA-C-N	6.01	128.61	120.38
1	ha	5	ASN	C-N-CA	6.01	128.61	120.38
1	hj	197	ASP	N-CA-C	-6.01	105.44	112.89
1	hE	59	VAL	O-C-N	-6.01	116.10	122.83
1	hI	196	PRO	N-CA-C	6.01	124.84	112.47
1	hK	23	TRP	CB-CG-CD1	6.01	135.91	126.90
1	hR	53	ASN	CA-C-N	6.01	128.33	120.28
1	hR	53	ASN	C-N-CA	6.01	128.33	120.28
1	hX	28	GLU	O-C-N	-6.01	115.30	122.15
1	i2	133	TRP	CA-C-O	6.01	127.33	120.90
1	i2	182	LYS	CA-C-N	6.01	128.33	120.28
1	i2	182	LYS	C-N-CA	6.01	128.33	120.28
1	i3	179	GLN	N-CA-C	6.01	117.50	111.07
1	i5	191	VAL	CA-C-O	6.01	126.45	119.36
1	i6	185	MET	O-C-N	-6.01	115.75	122.12
1	ih	207	PRO	N-CA-C	6.01	120.66	111.11
1	ii	24	VAL	CA-CB-CG2	-6.01	100.19	110.40
1	1P	194	ALA	CA-C-N	6.01	128.72	120.67
1	1P	194	ALA	C-N-CA	6.01	128.72	120.67
1	iI	181	VAL	CB-CA-C	-6.01	104.03	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iT	172	LEU	CA-C-O	6.01	126.92	120.55
1	j3	212	GLU	N-CA-C	6.01	121.28	111.37
1	jn	220	GLY	CA-C-N	6.01	129.46	120.69
1	jn	220	GLY	C-N-CA	6.01	129.46	120.69
1	jo	132	ARG	CA-C-N	6.01	128.25	120.44
1	jo	132	ARG	C-N-CA	6.01	128.25	120.44
1	jA	158	LYS	CA-C-O	-6.01	112.50	119.59
1	jB	84	HIS	CG-CD2-NE2	6.01	113.21	107.20
1	jW	100	ARG	O-C-N	-6.01	114.75	122.20
1	jZ	76	GLU	O-C-N	-6.01	115.30	122.15
1	k4	166	ASP	N-CA-CB	-6.01	100.99	109.94
1	k6	29	GLU	N-CA-C	6.01	119.57	112.72
1	kj	178	SER	N-CA-C	6.01	118.05	110.24
1	kt	148	THR	N-CA-C	6.01	119.27	109.06
1	kw	67	GLN	N-CA-C	6.01	117.83	111.28
1	ky	174	ALA	N-CA-CB	-6.01	101.29	110.12
1	kB	189	LEU	O-C-N	-6.01	114.42	122.23
1	kF	201	ILE	O-C-N	-6.01	115.64	121.83
1	kM	12	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	24	75	GLU	CB-CG-CD	6.01	122.81	112.60
1	kQ	83	LEU	CA-C-O	-6.01	114.51	120.82
1	kS	135	ILE	N-CA-C	6.01	116.79	110.72
1	l1	208	ALA	N-CA-C	6.01	119.08	111.69
1	l4	28	GLU	N-CA-C	6.01	117.50	111.07
1	la	208	ALA	CA-C-N	6.01	130.01	121.42
1	la	208	ALA	C-N-CA	6.01	130.01	121.42
1	lo	107	THR	N-CA-C	6.01	118.60	111.33
1	lC	166	ASP	CA-C-O	6.01	126.89	120.70
1	lE	95	GLN	OE1-CD-NE2	-6.01	116.59	122.60
1	lH	162	ARG	O-C-N	-6.01	115.84	122.09
1	2j	98	GLU	CA-C-N	6.01	126.02	119.89
1	2j	98	GLU	C-N-CA	6.01	126.02	119.89
1	2o	174	ALA	N-CA-C	6.01	117.83	111.28
1	2A	5	ASN	N-CA-C	-6.01	105.03	112.90
1	2E	92	GLU	CA-C-N	6.01	126.36	119.93
1	2E	92	GLU	C-N-CA	6.01	126.36	119.93
1	2G	171	THR	N-CA-C	6.01	117.83	111.28
1	2W	185	MET	O-C-N	-6.01	115.88	122.07
1	39	165	VAL	N-CA-CB	-6.01	102.96	110.47
1	3i	96	MET	N-CA-C	6.01	118.94	110.23
1	3z	63	GLN	OE1-CD-NE2	6.01	128.61	122.60
1	4e	215	MET	N-CA-C	-6.01	105.21	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	204	ALA	N-CA-C	6.01	120.34	112.89
1	4C	33	SER	CB-CA-C	6.01	118.60	110.37
1	4S	108	THR	CA-CB-OG1	6.01	118.61	109.60
1	4Z	206	GLY	CA-C-O	-6.01	112.93	121.52
1	5c	120	HIS	CA-CB-CG	6.01	119.81	113.80
1	5y	18	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	5y	40	PHE	N-CA-CB	-6.01	101.29	110.12
1	5Q	199	LYS	CA-C-N	6.01	128.25	120.44
1	5Q	199	LYS	C-N-CA	6.01	128.25	120.44
1	65	62	HIS	ND1-CG-CD2	6.01	112.11	106.10
1	6t	78	ALA	CA-C-O	6.01	126.79	120.42
1	6t	157	PRO	N-CA-CB	6.01	109.94	103.33
1	6K	158	LYS	CA-C-N	6.01	128.82	120.65
1	6K	158	LYS	C-N-CA	6.01	128.82	120.65
1	6T	28	GLU	N-CA-C	6.01	117.83	111.28
1	6V	174	ALA	CA-C-O	6.01	126.80	119.11
1	7x	228	ALA	O-C-N	-6.01	116.19	123.10
1	7B	166	ASP	O-C-N	-6.01	115.88	122.07
1	7K	23	TRP	N-CA-C	6.01	117.50	111.07
1	7R	133	TRP	CD2-CE2-CZ2	-6.01	116.39	122.40
1	82	213	GLU	O-C-N	-6.01	115.75	122.12
1	85	230	VAL	N-CA-CB	6.01	118.49	110.26
1	8j	7	GLN	OE1-CD-NE2	6.01	128.61	122.60
1	8m	20	LEU	N-CA-CB	6.01	118.95	109.82
1	8w	140	LYS	N-CA-C	6.01	118.32	111.11
1	8C	100	ARG	CA-C-N	6.01	126.78	119.99
1	8C	100	ARG	C-N-CA	6.01	126.78	119.99
1	90	93	PRO	O-C-N	-6.01	115.26	122.89
1	93	125	PRO	O-C-N	-6.01	114.53	122.64
1	9J	184	TRP	CA-C-N	6.01	128.65	120.54
1	9J	184	TRP	C-N-CA	6.01	128.65	120.54
1	Y	104	ILE	O-C-N	6.01	127.80	121.91
1	9S	169	TYR	N-CA-CB	6.01	118.72	110.01
1	a5	44	SER	N-CA-C	6.01	117.83	111.28
1	a9	87	HIS	N-CA-C	6.01	119.91	112.58
1	al	152	ASP	CA-C-N	6.01	129.52	120.75
1	al	152	ASP	C-N-CA	6.01	129.52	120.75
1	an	85	PRO	CA-C-N	6.01	128.70	120.35
1	an	85	PRO	C-N-CA	6.01	128.70	120.35
1	13	44	SER	CA-C-N	6.01	128.82	120.29
1	13	44	SER	C-N-CA	6.01	128.82	120.29
1	ba	143	ARG	O-C-N	-6.01	115.88	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bm	226	HIS	CG-CD2-NE2	6.01	113.21	107.20
1	bD	166	ASP	CA-CB-CG	6.01	118.61	112.60
1	c2	208	ALA	N-CA-C	6.01	119.93	112.24
1	c3	71	GLU	CB-CG-CD	6.01	122.81	112.60
1	cc	141	ILE	N-CA-CB	6.01	118.71	110.54
1	ce	154	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	cn	162	ARG	CD-NE-CZ	6.01	132.81	124.40
1	cx	58	THR	CA-C-N	6.01	129.26	120.91
1	cx	58	THR	C-N-CA	6.01	129.26	120.91
1	cz	203	LYS	O-C-N	-6.01	115.88	122.07
1	cI	178	SER	O-C-N	-6.01	115.26	122.65
1	d5	101	GLY	N-CA-C	6.01	119.94	112.73
1	d7	21	ASN	CA-CB-CG	6.01	118.61	112.60
1	dj	14	ALA	N-CA-C	6.01	118.46	110.53
1	dx	54	THR	N-CA-CB	6.01	118.72	110.01
1	dG	135	ILE	CA-C-O	6.01	126.96	120.47
1	1m	22	ALA	CA-C-N	6.01	128.33	120.28
1	1m	22	ALA	C-N-CA	6.01	128.33	120.28
1	dV	174	ALA	N-CA-CB	-6.01	101.42	110.73
1	e0	224	PRO	CA-C-N	6.01	133.18	121.41
1	e0	224	PRO	C-N-CA	6.01	133.18	121.41
1	1o	12	HIS	CE1-NE2-CD2	-6.01	102.99	109.00
1	ea	222	GLY	O-C-N	-6.01	114.89	122.70
1	ev	162	ARG	NH1-CZ-NH2	-6.01	111.49	119.30
1	ew	173	ARG	NE-CZ-NH1	6.01	127.51	121.50
1	eQ	229	ARG	O-C-N	-6.01	115.77	122.86
1	eS	68	MET	CG-SD-CE	-6.01	87.68	100.90
1	eV	196	PRO	N-CA-C	6.01	124.84	112.47
1	f5	130	TYR	CA-C-O	6.01	126.79	120.42
1	fd	92	GLU	O-C-N	-6.01	114.75	120.70
1	fC	138	LEU	CA-C-N	6.01	128.33	120.28
1	fC	138	LEU	C-N-CA	6.01	128.33	120.28
1	fC	143	ARG	NE-CZ-NH2	-6.01	113.79	119.20
1	fM	117	TRP	N-CA-CB	6.01	118.72	110.01
1	k	66	MET	N-CA-C	6.01	117.83	111.28
1	m	140	LYS	CA-C-O	6.01	126.92	120.55
1	q	184	TRP	CA-C-O	6.01	126.92	120.55
1	4	31	ALA	CA-C-N	6.01	130.89	122.36
1	4	31	ALA	C-N-CA	6.01	130.89	122.36
1	Q	171	THR	CB-CA-C	6.01	120.31	110.88
1	gF	170	LYS	CA-C-O	6.00	126.79	120.42
1	h6	2	ILE	CA-C-N	6.00	128.62	121.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	2	ILE	C-N-CA	6.00	128.62	121.84
1	he	186	THR	O-C-N	-6.00	115.75	122.12
1	hB	76	GLU	O-C-N	-6.00	115.88	122.07
1	ia	169	TYR	CA-CB-CG	-6.00	103.09	113.90
1	ij	149	SER	CA-C-N	6.00	128.69	120.46
1	ij	149	SER	C-N-CA	6.00	128.69	120.46
1	iR	149	SER	CA-C-N	6.00	130.47	120.62
1	iR	149	SER	C-N-CA	6.00	130.47	120.62
1	j9	205	LEU	CA-C-N	6.00	131.30	121.87
1	j9	205	LEU	C-N-CA	6.00	131.30	121.87
1	ju	128	GLU	CA-C-N	6.00	128.13	120.56
1	ju	128	GLU	C-N-CA	6.00	128.13	120.56
1	jI	133	TRP	CA-C-N	6.00	128.35	120.60
1	jI	133	TRP	C-N-CA	6.00	128.35	120.60
1	jK	25	LYS	CA-C-N	6.00	128.25	120.56
1	jK	25	LYS	C-N-CA	6.00	128.25	120.56
1	kB	154	ARG	CD-NE-CZ	6.00	132.81	124.40
1	kM	64	ALA	CA-C-N	6.00	128.61	120.38
1	kM	64	ALA	C-N-CA	6.00	128.61	120.38
1	25	46	GLY	O-C-N	-6.00	116.53	122.41
1	lP	87	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	2H	12	HIS	N-CA-CB	6.00	120.07	110.16
1	2I	171	THR	O-C-N	-6.00	115.31	122.15
1	2O	34	PRO	CA-C-N	6.00	133.01	121.54
1	2O	34	PRO	C-N-CA	6.00	133.01	121.54
1	30	189	LEU	CA-C-O	6.00	126.78	120.42
1	34	32	PHE	N-CA-C	6.00	119.31	109.76
1	43	16	SER	N-CA-C	6.00	118.37	110.08
1	49	18	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	4T	168	PHE	N-CA-C	6.00	118.35	111.02
1	58	146	SER	N-CA-CB	6.00	118.61	110.14
1	5s	24	VAL	CA-C-N	6.00	128.25	120.44
1	5s	24	VAL	C-N-CA	6.00	128.25	120.44
1	5B	3	VAL	N-CA-C	-6.00	99.47	108.12
1	5C	207	PRO	CB-CA-C	-6.00	103.27	110.00
1	5Z	192	GLN	N-CA-C	6.00	117.50	111.07
1	62	4	GLN	N-CA-C	6.00	118.44	109.25
1	6A	29	GLU	N-CA-CB	6.00	118.72	110.01
1	6B	188	THR	O-C-N	-6.00	114.92	121.95
1	6S	106	GLY	CA-C-O	6.00	125.79	119.06
1	70	14	ALA	O-C-N	-6.00	114.60	122.59
1	72	201	ILE	O-C-N	-6.00	116.05	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7h	140	LYS	O-C-N	-6.00	115.75	122.12
1	7w	109	SER	O-C-N	-6.00	115.94	123.27
1	8s	36	VAL	O-C-N	-6.00	115.81	121.87
1	8A	45	GLU	CA-C-O	-6.00	114.31	120.80
1	8F	189	LEU	CA-C-O	6.00	127.12	120.82
1	9j	111	LEU	N-CA-C	6.00	117.83	111.28
1	9k	57	ASN	OD1-CG-ND2	-6.00	116.59	122.60
1	9k	88	ALA	N-CA-CB	-6.00	101.63	111.66
1	a8	43	LEU	N-CA-C	6.00	117.83	111.28
1	bb	85	PRO	CA-C-O	-6.00	114.49	121.34
1	bM	57	ASN	CA-C-O	6.00	127.11	120.63
1	1b	39	MET	CA-C-N	6.00	128.33	120.28
1	1b	39	MET	C-N-CA	6.00	128.33	120.28
1	c3	39	MET	CA-C-N	6.00	128.33	120.28
1	c3	39	MET	C-N-CA	6.00	128.33	120.28
1	ca	97	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	cB	84	HIS	CA-C-N	6.00	127.35	119.84
1	cB	84	HIS	C-N-CA	6.00	127.35	119.84
1	cB	211	LEU	N-CA-C	6.00	117.83	111.28
1	cO	221	VAL	CA-CB-CG2	6.00	120.61	110.40
1	dv	179	GLN	N-CA-C	6.00	118.32	111.11
1	1l	152	ASP	CA-C-N	6.00	130.12	122.37
1	1l	152	ASP	C-N-CA	6.00	130.12	122.37
1	dH	9	GLN	CB-CG-CD	6.00	122.81	112.60
1	eG	104	ILE	CA-C-O	6.00	127.14	120.71
1	eJ	226	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	fc	200	THR	CA-C-N	6.00	128.25	120.56
1	fc	200	THR	C-N-CA	6.00	128.25	120.56
1	ff	5	ASN	CA-CB-CG	6.00	118.61	112.60
1	fD	138	LEU	CA-C-O	-6.00	114.06	120.42
1	d	100	ARG	CA-C-N	6.00	126.64	119.98
1	d	100	ARG	C-N-CA	6.00	126.64	119.98
1	gJ	197	ASP	N-CA-C	6.00	117.49	111.07
1	h1	97	ARG	N-CA-C	6.00	119.60	109.76
1	h1	219	GLN	N-CA-C	6.00	118.78	111.82
1	h2	1	PRO	N-CA-CB	6.00	109.60	103.00
1	h4	86	VAL	O-C-N	-6.00	116.88	123.18
1	he	226	HIS	CA-CB-CG	-6.00	107.80	113.80
1	hh	180	GLU	O-C-N	-6.00	115.76	122.12
1	hl	16	SER	N-CA-C	6.00	118.31	109.42
1	hp	5	ASN	CA-CB-CG	6.00	118.60	112.60
1	hu	175	GLU	CB-CA-C	6.00	119.63	109.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hB	132	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	1L	106	GLY	N-CA-C	-6.00	107.41	115.21
1	1N	100	ARG	CA-C-N	6.00	127.64	120.14
1	1N	100	ARG	C-N-CA	6.00	127.64	120.14
1	1O	143	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	1Q	172	LEU	CA-C-N	6.00	129.82	120.82
1	1Q	172	LEU	C-N-CA	6.00	129.82	120.82
1	iB	148	THR	O-C-N	-6.00	116.41	123.25
1	iB	154	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	iQ	204	ALA	O-C-N	6.00	129.44	122.17
1	iV	89	GLY	CA-C-N	6.00	126.01	119.89
1	iV	89	GLY	C-N-CA	6.00	126.01	119.89
1	iY	74	ASN	CA-C-O	6.00	126.88	120.70
1	j3	112	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	j8	114	GLN	N-CA-C	6.00	117.82	111.28
1	ji	105	ALA	O-C-N	-6.00	114.08	122.37
1	jq	18	ARG	CA-C-N	6.00	128.32	120.28
1	jq	18	ARG	C-N-CA	6.00	128.32	120.28
1	js	180	GLU	CA-C-N	6.00	129.00	120.53
1	js	180	GLU	C-N-CA	6.00	129.00	120.53
1	jD	206	GLY	N-CA-C	6.00	124.59	112.34
1	jP	152	ASP	CA-CB-CG	6.00	118.60	112.60
1	jZ	47	ALA	CA-C-N	6.00	132.21	122.48
1	jZ	47	ALA	C-N-CA	6.00	132.21	122.48
1	ku	35	GLU	CA-C-O	6.00	126.80	119.11
1	kP	93	PRO	CA-C-N	6.00	126.60	120.00
1	kP	93	PRO	C-N-CA	6.00	126.60	120.00
1	lk	76	GLU	N-CA-C	6.00	117.90	111.36
1	lK	210	THR	O-C-N	-6.00	115.60	122.68
1	2q	80	TRP	CA-C-O	6.00	126.77	119.38
1	2Q	34	PRO	CA-C-N	6.00	128.25	120.44
1	2Q	34	PRO	C-N-CA	6.00	128.25	120.44
1	2Y	190	LEU	N-CA-C	6.00	117.62	111.14
1	3g	142	VAL	CA-C-N	6.00	130.84	120.58
1	3g	142	VAL	C-N-CA	6.00	130.84	120.58
1	3K	202	LEU	N-CA-CB	6.00	119.59	110.28
1	3U	163	ASP	CA-C-N	6.00	128.24	120.44
1	3U	163	ASP	C-N-CA	6.00	128.24	120.44
1	47	37	ILE	CA-C-O	6.00	122.71	118.69
1	4g	198	CYS	CA-C-N	6.00	128.65	120.54
1	4g	198	CYS	C-N-CA	6.00	128.65	120.54
1	4i	62	HIS	ND1-CE1-NE2	6.00	114.40	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4m	189	LEU	N-CA-C	6.00	117.82	111.28
1	4o	74	ASN	O-C-N	-6.00	115.76	122.12
1	4r	91	ILE	O-C-N	-6.00	116.24	122.66
1	4u	89	GLY	CA-C-N	6.00	125.94	119.76
1	4u	89	GLY	C-N-CA	6.00	125.94	119.76
1	4w	132	ARG	CA-C-O	-6.00	114.06	120.42
1	4Y	204	ALA	N-CA-CB	-6.00	101.27	110.16
1	5a	102	SER	O-C-N	6.00	128.48	122.12
1	5b	77	ALA	N-CA-CB	-6.00	101.28	110.16
1	5q	38	PRO	N-CA-C	-6.00	105.36	113.40
1	5W	129	ILE	N-CA-C	6.00	116.74	110.62
1	66	39	MET	O-C-N	6.00	128.33	122.09
1	67	112	GLN	O-C-N	-6.00	115.76	122.12
1	6b	49	PRO	N-CA-CB	6.00	109.55	103.25
1	6n	95	GLN	N-CA-C	-6.00	99.21	109.24
1	6q	132	ARG	N-CA-C	6.00	118.59	111.33
1	6B	106	GLY	CA-C-O	6.00	127.25	119.44
1	6E	26	VAL	CA-C-N	6.00	128.21	120.70
1	6E	26	VAL	C-N-CA	6.00	128.21	120.70
1	6N	99	PRO	N-CA-C	6.00	124.84	112.47
1	6W	133	TRP	O-C-N	6.00	128.99	122.15
1	71	32	PHE	CA-C-N	6.00	129.78	120.60
1	71	32	PHE	C-N-CA	6.00	129.78	120.60
1	7f	218	CYS	N-CA-C	6.00	119.92	111.52
1	80	111	LEU	N-CA-C	6.00	118.59	111.33
1	8y	22	ALA	N-CA-C	-6.00	104.74	111.28
1	8E	150	ILE	O-C-N	-6.00	115.84	121.90
1	8H	106	GLY	CA-C-O	6.00	126.45	119.13
1	8U	216	THR	N-CA-C	-6.00	105.95	113.28
1	96	1	PRO	CA-C-N	6.00	129.94	121.66
1	96	1	PRO	C-N-CA	6.00	129.94	121.66
1	99	82	ARG	CA-C-N	6.00	128.32	120.28
1	99	82	ARG	C-N-CA	6.00	128.32	120.28
1	9t	143	ARG	CA-C-O	6.00	126.75	119.31
1	9x	107	THR	CA-C-O	6.00	126.62	119.60
1	9B	12	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	9R	178	SER	N-CA-C	6.00	123.59	110.80
1	ah	10	MET	O-C-N	-6.00	115.64	122.97
1	ao	213	GLU	O-C-N	-6.00	115.76	122.12
1	ar	67	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	aP	47	ALA	O-C-N	-6.00	115.55	122.93
1	aU	148	THR	N-CA-C	-6.00	105.69	114.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aY	191	VAL	N-CA-C	6.00	118.59	111.09
1	bn	212	GLU	N-CA-CB	-6.00	101.00	109.94
1	bp	223	GLY	N-CA-C	6.00	119.20	112.00
1	bs	142	VAL	N-CA-C	6.00	119.45	111.17
1	bt	123	PRO	CA-C-O	-6.00	114.53	121.86
1	19	162	ARG	CA-C-N	6.00	128.24	120.44
1	19	162	ARG	C-N-CA	6.00	128.24	120.44
1	bN	57	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	bO	75	GLU	CA-C-O	-6.00	113.32	120.10
1	cd	157	PRO	N-CA-CB	-6.00	95.58	102.60
1	cj	20	LEU	O-C-N	-6.00	115.76	122.12
1	cA	38	PRO	N-CA-C	6.00	122.69	113.75
1	cA	172	LEU	CA-C-O	6.00	127.12	120.82
1	cQ	229	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	cW	79	GLU	O-C-N	-6.00	115.31	122.15
1	d8	11	VAL	N-CA-C	6.00	116.80	109.30
1	d9	141	ILE	CA-C-N	6.00	128.34	120.60
1	d9	141	ILE	C-N-CA	6.00	128.34	120.60
1	di	101	GLY	CA-C-N	6.00	128.32	120.28
1	di	101	GLY	C-N-CA	6.00	128.32	120.28
1	dz	24	VAL	CB-CA-C	-6.00	104.03	112.14
1	dP	57	ASN	N-CA-C	6.00	117.82	111.28
1	1p	159	GLU	CA-C-N	6.00	127.34	119.84
1	1p	159	GLU	C-N-CA	6.00	127.34	119.84
1	eq	139	ASN	CA-CB-CG	-6.00	106.60	112.60
1	eu	132	ARG	O-C-N	-6.00	115.76	122.12
1	eC	109	SER	O-C-N	-6.00	116.03	123.36
1	eF	142	VAL	O-C-N	-6.00	115.10	122.18
1	1t	16	SER	CA-C-O	-6.00	114.61	120.19
1	eV	80	TRP	O-C-N	-6.00	115.76	122.12
1	ff	218	CYS	N-CA-CB	6.00	120.64	110.49
1	fp	74	ASN	CA-C-N	6.00	128.24	120.44
1	fp	74	ASN	C-N-CA	6.00	128.24	120.44
1	fq	132	ARG	CA-C-O	6.00	127.11	120.63
1	fs	19	THR	CA-C-N	6.00	128.57	120.65
1	fs	19	THR	C-N-CA	6.00	128.57	120.65
1	fu	226	HIS	O-C-N	-6.00	115.19	122.22
1	fZ	166	ASP	CA-CB-CG	6.00	118.60	112.60
1	a	171	THR	N-CA-C	6.00	117.62	111.14
1	d	219	GLN	CA-C-N	6.00	131.72	121.87
1	d	219	GLN	C-N-CA	6.00	131.72	121.87
1	e	132	ARG	O-C-N	-6.00	115.31	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	49	PRO	CA-C-N	6.00	128.64	120.54
1	M	49	PRO	C-N-CA	6.00	128.64	120.54
1	O	100	ARG	CA-C-N	6.00	126.77	119.99
1	O	100	ARG	C-N-CA	6.00	126.77	119.99
1	7	165	VAL	N-CA-C	6.00	116.74	110.62
1	gc	166	ASP	O-C-N	6.00	128.25	122.07
1	ge	80	TRP	O-C-N	-6.00	115.31	122.15
1	gr	56	LEU	CA-C-O	-6.00	114.48	120.90
1	gx	18	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	gT	138	LEU	N-CA-CB	6.00	118.94	110.12
1	gW	145	TYR	N-CA-C	6.00	117.82	111.28
1	1H	169	TYR	N-CA-CB	6.00	118.94	110.12
1	hi	181	VAL	N-CA-C	6.00	116.74	110.62
1	ho	217	ALA	N-CA-C	6.00	118.82	109.52
1	hr	33	SER	CB-CA-C	6.00	118.59	110.37
1	hB	78	ALA	O-C-N	6.00	129.65	122.27
1	hH	87	HIS	N-CA-C	6.00	118.93	110.23
1	hI	111	LEU	CA-C-O	6.00	129.09	120.51
1	iq	102	SER	CA-C-N	6.00	129.43	120.31
1	iq	102	SER	C-N-CA	6.00	129.43	120.31
1	iw	134	ILE	CA-CB-CG1	6.00	120.60	110.40
1	ix	33	SER	CB-CA-C	6.00	118.25	110.03
1	iF	188	THR	CA-CB-CG2	6.00	120.70	110.50
1	1T	81	ASP	O-C-N	-6.00	114.89	122.27
1	jk	171	THR	CA-C-N	6.00	128.32	120.28
1	jk	171	THR	C-N-CA	6.00	128.32	120.28
1	jw	8	GLY	CA-C-N	6.00	129.36	120.90
1	jw	8	GLY	C-N-CA	6.00	129.36	120.90
1	jy	12	HIS	O-C-N	-6.00	116.20	123.10
1	jA	9	GLN	CA-C-N	6.00	130.25	121.31
1	jA	9	GLN	C-N-CA	6.00	130.25	121.31
1	jR	41	SER	CA-C-N	6.00	128.32	120.28
1	jR	41	SER	C-N-CA	6.00	128.32	120.28
1	jU	174	ALA	CA-C-N	6.00	129.23	120.71
1	jU	174	ALA	C-N-CA	6.00	129.23	120.71
1	jY	93	PRO	N-CA-C	6.00	121.04	111.26
1	kn	201	ILE	CB-CA-C	6.00	120.24	112.14
1	kz	39	MET	N-CA-CB	6.00	119.06	110.06
1	kH	23	TRP	CA-CB-CG	6.00	125.00	113.60
1	kZ	56	LEU	CA-C-N	6.00	128.81	120.29
1	kZ	56	LEU	C-N-CA	6.00	128.81	120.29
1	26	215	MET	N-CA-C	6.00	117.82	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	93	PRO	O-C-N	-6.00	115.77	123.03
1	lq	173	ARG	CA-C-N	6.00	128.32	120.28
1	lq	173	ARG	C-N-CA	6.00	128.32	120.28
1	ly	210	THR	O-C-N	-6.00	116.18	122.96
1	lJ	63	GLN	O-C-N	-6.00	114.18	122.46
1	2g	96	MET	CA-C-O	6.00	128.13	121.11
1	2m	63	GLN	CB-CG-CD	6.00	122.80	112.60
1	2A	97	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	2S	112	GLN	OE1-CD-NE2	6.00	128.60	122.60
1	2X	141	ILE	N-CA-CB	6.00	118.70	110.54
1	2Y	132	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	2Y	182	LYS	CA-C-N	6.00	128.60	120.44
1	2Y	182	LYS	C-N-CA	6.00	128.60	120.44
1	3a	156	GLY	O-C-N	-6.00	115.77	121.77
1	3g	203	LYS	N-CA-C	6.00	118.31	111.11
1	3k	85	PRO	CA-C-O	-6.00	114.78	121.32
1	3A	221	VAL	N-CA-CB	6.00	119.49	110.13
1	3J	65	ALA	CB-CA-C	6.00	120.30	110.88
1	3P	38	PRO	CA-C-N	6.00	128.24	120.44
1	3P	38	PRO	C-N-CA	6.00	128.24	120.44
1	3P	177	ALA	N-CA-C	6.00	118.51	110.35
1	3R	195	ASN	CA-C-O	-6.00	113.93	120.17
1	3W	26	VAL	CA-CB-CG1	6.00	120.60	110.40
1	3Y	26	VAL	CA-C-N	6.00	128.68	120.46
1	3Y	26	VAL	C-N-CA	6.00	128.68	120.46
1	4f	79	GLU	O-C-N	-6.00	115.85	122.09
1	4N	90	PRO	CA-C-O	-6.00	114.71	121.43
1	50	205	LEU	CA-C-O	6.00	127.11	120.63
1	57	32	PHE	CA-C-O	6.00	127.45	120.49
1	59	87	HIS	CB-CG-CD2	-6.00	123.40	131.20
1	5a	141	ILE	N-CA-C	-6.00	104.66	110.72
1	5Q	84	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	64	131	LYS	CA-C-N	6.00	128.32	120.28
1	64	131	LYS	C-N-CA	6.00	128.32	120.28
1	6e	62	HIS	ND1-CG-CD2	6.00	112.10	106.10
1	6x	13	GLN	O-C-N	-6.00	115.07	123.11
1	6E	24	VAL	CA-C-N	6.00	128.81	120.29
1	6E	24	VAL	C-N-CA	6.00	128.81	120.29
1	6I	146	SER	CB-CA-C	-6.00	101.85	109.65
1	6Z	123	PRO	CA-C-N	6.00	128.07	122.85
1	6Z	123	PRO	C-N-CA	6.00	128.07	122.85
1	75	193	ASN	CA-C-O	6.00	127.03	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	133	TRP	CB-CG-CD2	-6.00	118.40	126.80
1	7d	208	ALA	CA-C-N	6.00	130.36	120.94
1	7d	208	ALA	C-N-CA	6.00	130.36	120.94
1	7h	80	TRP	CA-C-N	6.00	128.32	120.28
1	7h	80	TRP	C-N-CA	6.00	128.32	120.28
1	7r	55	MET	CG-SD-CE	-6.00	87.70	100.90
1	7s	92	GLU	N-CA-C	6.00	118.36	110.08
1	7F	18	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	7H	12	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	81	116	GLY	O-C-N	6.00	127.95	122.19
1	83	61	GLY	CA-C-N	6.00	131.27	122.63
1	83	61	GLY	C-N-CA	6.00	131.27	122.63
1	8p	92	GLU	CA-C-N	6.00	126.35	119.93
1	8p	92	GLU	C-N-CA	6.00	126.35	119.93
1	8E	67	GLN	CA-C-N	6.00	129.43	120.31
1	8E	67	GLN	C-N-CA	6.00	129.43	120.31
1	8I	37	ILE	CA-C-N	6.00	125.62	119.56
1	8I	37	ILE	C-N-CA	6.00	125.62	119.56
1	8R	109	SER	CA-C-N	6.00	130.36	120.94
1	8R	109	SER	C-N-CA	6.00	130.36	120.94
1	8V	41	SER	CA-C-N	6.00	128.32	120.28
1	8V	41	SER	C-N-CA	6.00	128.32	120.28
1	95	69	LEU	N-CA-CB	6.00	118.71	110.01
1	9c	32	PHE	CA-CB-CG	6.00	119.80	113.80
1	9g	23	TRP	CB-CG-CD1	-6.00	117.90	126.90
1	9j	41	SER	CA-C-N	6.00	128.81	120.29
1	9j	41	SER	C-N-CA	6.00	128.81	120.29
1	9o	228	ALA	N-CA-C	6.00	119.16	110.28
1	9x	100	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	9B	140	LYS	N-CA-C	6.00	117.49	111.07
1	9D	54	THR	N-CA-CB	6.00	118.94	110.12
1	9E	218	CYS	CA-C-N	6.00	133.00	121.54
1	9E	218	CYS	C-N-CA	6.00	133.00	121.54
1	9J	53	ASN	N-CA-CB	6.00	118.71	110.01
1	a7	95	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	ad	133	TRP	O-C-N	-6.00	115.31	122.15
1	ai	201	ILE	CA-C-N	6.00	128.32	120.28
1	ai	201	ILE	C-N-CA	6.00	128.32	120.28
1	an	78	ALA	CB-CA-C	-6.00	101.46	110.88
1	ay	21	ASN	CA-C-N	6.00	128.81	120.29
1	ay	21	ASN	C-N-CA	6.00	128.81	120.29
1	aI	189	LEU	CA-C-N	6.00	128.64	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aI	189	LEU	C-N-CA	6.00	128.64	120.54
1	aN	140	LYS	CA-C-N	6.00	128.34	120.60
1	aN	140	LYS	C-N-CA	6.00	128.34	120.60
1	aW	211	LEU	CA-C-N	6.00	128.60	120.38
1	aW	211	LEU	C-N-CA	6.00	128.60	120.38
1	b4	164	TYR	N-CA-C	6.00	118.31	111.11
1	bf	223	GLY	CA-C-N	6.00	125.88	119.28
1	bf	223	GLY	C-N-CA	6.00	125.88	119.28
1	19	191	VAL	N-CA-C	6.00	117.95	112.43
1	bW	123	PRO	N-CA-CB	-6.00	98.28	103.32
1	c2	122	PRO	CA-C-N	6.00	127.34	119.84
1	c2	122	PRO	C-N-CA	6.00	127.34	119.84
1	c9	30	LYS	N-CA-C	6.00	121.34	113.30
1	cc	159	GLU	O-C-N	-6.00	116.79	121.47
1	cl	49	PRO	CB-CA-C	6.00	121.46	111.56
1	cm	172	LEU	CA-C-N	6.00	128.32	120.28
1	cm	172	LEU	C-N-CA	6.00	128.32	120.28
1	cn	163	ASP	CA-C-N	6.00	128.64	120.54
1	cn	163	ASP	C-N-CA	6.00	128.64	120.54
1	cu	54	THR	N-CA-C	6.00	118.31	111.11
1	cI	198	CYS	CA-C-N	6.00	128.60	120.38
1	cI	198	CYS	C-N-CA	6.00	128.60	120.38
1	cP	197	ASP	CA-C-O	6.00	126.91	120.55
1	d7	226	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	dd	27	VAL	CA-CB-CG2	-6.00	100.20	110.40
1	dg	44	SER	CA-C-N	6.00	128.60	120.38
1	dg	44	SER	C-N-CA	6.00	128.60	120.38
1	dm	35	GLU	CA-C-N	6.00	128.68	120.46
1	dm	35	GLU	C-N-CA	6.00	128.68	120.46
1	dF	66	MET	N-CA-C	6.00	118.59	111.33
1	dF	192	GLN	N-CA-C	6.00	120.33	113.19
1	dT	51	ASP	N-CA-C	-6.00	104.08	111.40
1	e5	165	VAL	O-C-N	-6.00	115.65	121.83
1	ee	224	PRO	CA-C-N	6.00	127.90	120.34
1	ee	224	PRO	C-N-CA	6.00	127.90	120.34
1	ef	51	ASP	CA-CB-CG	-6.00	106.60	112.60
1	eu	76	GLU	CA-C-O	6.00	126.91	120.55
1	ew	209	ALA	N-CA-C	6.00	118.51	110.35
1	eB	213	GLU	N-CA-C	6.00	118.61	111.71
1	eK	79	GLU	O-C-N	-6.00	114.89	122.27
1	f5	168	PHE	N-CA-C	6.00	117.90	111.36
1	fl	189	LEU	CA-C-N	6.00	129.13	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fl	189	LEU	C-N-CA	6.00	129.13	120.79
1	fr	84	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	fI	2	ILE	N-CA-CB	6.00	119.49	110.13
1	fM	198	CYS	CA-C-N	6.00	128.24	120.44
1	fM	198	CYS	C-N-CA	6.00	128.24	120.44
1	g5	173	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	g7	206	GLY	CA-C-N	6.00	127.34	119.84
1	g7	206	GLY	C-N-CA	6.00	127.34	119.84
1	j	152	ASP	CA-C-O	6.00	126.37	119.35
1	p	10	MET	CA-C-O	-6.00	115.15	122.41
1	q	104	ILE	CB-CA-C	6.00	119.90	112.04
1	O	6	LEU	N-CA-C	6.00	118.59	111.33
1	gB	174	ALA	N-CA-C	6.00	118.61	111.71
1	gH	54	THR	N-CA-C	6.00	117.49	111.07
1	hg	7	GLN	CA-C-N	6.00	130.63	120.91
1	hg	7	GLN	C-N-CA	6.00	130.63	120.91
1	hD	87	HIS	N-CA-C	6.00	119.30	110.30
1	hY	34	PRO	O-C-N	-6.00	114.17	122.27
1	iZ	161	PHE	CA-CB-CG	6.00	119.80	113.80
1	je	77	ALA	N-CA-C	6.00	117.49	111.07
1	jg	120	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	1X	215	MET	CA-C-N	6.00	128.32	120.28
1	1X	215	MET	C-N-CA	6.00	128.32	120.28
1	k2	158	LYS	O-C-N	-6.00	114.97	122.35
1	k4	132	ARG	CD-NE-CZ	6.00	132.80	124.40
1	l5	53	ASN	N-CA-C	6.00	118.59	111.33
1	29	148	THR	O-C-N	6.00	131.04	123.12
1	lJ	120	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	lL	53	ASN	N-CA-C	6.00	117.82	111.28
1	31	216	THR	N-CA-C	6.00	117.49	111.07
1	46	223	GLY	O-C-N	6.00	127.77	121.77
1	4d	69	LEU	N-CA-C	6.00	117.49	111.07
1	4k	57	ASN	CA-CB-CG	-6.00	106.60	112.60
1	4r	27	VAL	N-CA-C	6.00	116.74	110.62
1	4R	52	LEU	O-C-N	-6.00	115.76	122.12
1	54	197	ASP	CA-CB-CG	-6.00	106.60	112.60
1	5t	229	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	5S	125	PRO	N-CA-CB	-6.00	97.78	102.28
1	6d	113	GLU	N-CA-C	6.00	117.82	111.28
1	6e	30	LYS	CA-C-N	6.00	133.00	121.54
1	6e	30	LYS	C-N-CA	6.00	133.00	121.54
1	6D	100	ARG	CA-C-N	6.00	126.75	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6D	100	ARG	C-N-CA	6.00	126.75	120.03
1	7z	184	TRP	N-CA-C	6.00	117.82	111.28
1	7F	12	HIS	CA-CB-CG	6.00	119.80	113.80
1	7P	155	GLN	CB-CG-CD	6.00	122.80	112.60
1	8O	200	THR	N-CA-C	6.00	118.61	111.71
1	96	130	TYR	CA-C-N	6.00	128.32	120.28
1	96	130	TYR	C-N-CA	6.00	128.32	120.28
1	9i	52	LEU	O-C-N	-6.00	115.76	122.12
1	9J	10	MET	O-C-N	-6.00	114.61	122.59
1	9R	89	GLY	CA-C-N	6.00	125.94	119.76
1	9R	89	GLY	C-N-CA	6.00	125.94	119.76
1	9S	85	PRO	O-C-N	-6.00	114.54	122.64
1	ae	197	ASP	N-CA-CB	6.00	118.67	109.91
1	ag	184	TRP	CB-CG-CD1	-6.00	117.90	126.90
1	ak	197	ASP	CA-C-N	6.00	128.32	120.28
1	ak	197	ASP	C-N-CA	6.00	128.32	120.28
1	aJ	47	ALA	N-CA-C	6.00	119.04	110.10
1	bu	121	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	bI	87	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	cV	103	ASP	CA-C-O	-6.00	114.06	120.42
1	1j	7	GLN	CA-C-O	-6.00	114.89	121.31
1	dl	158	LYS	CA-C-N	6.00	128.81	120.65
1	dl	158	LYS	C-N-CA	6.00	128.81	120.65
1	e4	191	VAL	CA-C-N	6.00	128.81	120.29
1	e4	191	VAL	C-N-CA	6.00	128.81	120.29
1	es	51	ASP	CA-CB-CG	-6.00	106.60	112.60
1	eG	5	ASN	CA-CB-CG	-6.00	106.60	112.60
1	eR	57	ASN	CA-C-N	6.00	129.43	120.31
1	eR	57	ASN	C-N-CA	6.00	129.43	120.31
1	fa	185	MET	CB-CA-C	-6.00	99.15	110.67
1	fc	7	GLN	CA-C-N	6.00	133.17	121.41
1	fc	7	GLN	C-N-CA	6.00	133.17	121.41
1	fx	156	GLY	CA-C-N	6.00	125.62	119.56
1	fx	156	GLY	C-N-CA	6.00	125.62	119.56
1	fC	21	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	1z	58	THR	CA-CB-OG1	6.00	118.60	109.60
1	G	185	MET	N-CA-C	-6.00	105.72	113.16
1	K	114	GLN	O-C-N	-6.00	115.31	122.15
1	9	107	THR	N-CA-CB	6.00	118.71	110.01
1	gv	150	ILE	CA-C-O	6.00	126.84	119.58
1	gx	84	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	gz	62	HIS	N-CA-C	6.00	119.46	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gK	21	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	h0	66	MET	CA-C-N	6.00	128.32	120.28
1	h0	66	MET	C-N-CA	6.00	128.32	120.28
1	hf	73	ILE	N-CA-C	6.00	116.66	110.36
1	hj	51	ASP	CA-CB-CG	-6.00	106.60	112.60
1	hw	2	ILE	CB-CA-C	6.00	119.51	110.63
1	hM	97	ARG	N-CA-CB	6.00	119.41	110.29
1	hX	35	GLU	CB-CG-CD	6.00	122.80	112.60
1	i0	87	HIS	CG-CD2-NE2	6.00	113.20	107.20
1	i6	27	VAL	CA-C-N	6.00	128.60	120.44
1	i6	27	VAL	C-N-CA	6.00	128.60	120.44
1	i8	52	LEU	CA-C-N	6.00	128.24	120.44
1	i8	52	LEU	C-N-CA	6.00	128.24	120.44
1	ic	54	THR	O-C-N	-6.00	115.89	122.07
1	iq	198	CYS	CA-C-N	6.00	128.32	120.28
1	iq	198	CYS	C-N-CA	6.00	128.32	120.28
1	iE	229	ARG	CB-CA-C	6.00	120.69	109.71
1	iQ	143	ARG	CA-C-O	6.00	126.69	119.43
1	iQ	148	THR	O-C-N	-6.00	115.67	121.85
1	iY	76	GLU	CA-C-N	6.00	128.92	120.28
1	iY	76	GLU	C-N-CA	6.00	128.92	120.28
1	iY	154	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	j0	55	MET	CG-SD-CE	-6.00	87.70	100.90
1	j6	103	ASP	CA-C-N	6.00	128.99	120.53
1	j6	103	ASP	C-N-CA	6.00	128.99	120.53
1	j6	124	ILE	CB-CA-C	6.00	122.28	111.36
1	ju	88	ALA	N-CA-C	6.00	119.16	110.28
1	jv	11	VAL	N-CA-C	6.00	117.09	107.73
1	jU	120	HIS	CA-CB-CG	6.00	119.80	113.80
1	jV	141	ILE	CA-C-O	6.00	127.21	120.85
1	kg	58	THR	N-CA-CB	6.00	118.94	110.12
1	kj	23	TRP	CB-CG-CD1	-6.00	117.90	126.90
1	kN	146	SER	CA-C-N	6.00	125.39	118.85
1	kN	146	SER	C-N-CA	6.00	125.39	118.85
1	l6	94	GLY	CA-C-O	6.00	124.89	118.95
1	lg	183	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	li	7	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	ll	68	MET	N-CA-C	6.00	118.61	111.71
1	28	141	ILE	N-CA-CB	6.00	117.17	110.51
1	2a	194	ALA	O-C-N	-6.00	115.43	122.81
1	2b	170	LYS	N-CA-C	6.00	117.49	111.07
1	2e	40	PHE	CA-C-O	6.00	127.12	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2i	80	TRP	CA-C-N	6.00	129.43	120.31
1	2i	80	TRP	C-N-CA	6.00	129.43	120.31
1	2k	183	ASN	CA-CB-CG	-6.00	106.60	112.60
1	2q	205	LEU	CA-C-N	6.00	131.29	121.87
1	2q	205	LEU	C-N-CA	6.00	131.29	121.87
1	2w	111	LEU	CA-C-N	6.00	128.81	120.29
1	2w	111	LEU	C-N-CA	6.00	128.81	120.29
1	2I	199	LYS	N-CA-C	6.00	117.82	111.28
1	2Q	67	GLN	O-C-N	-6.00	115.76	122.12
1	2U	62	HIS	ND1-CG-CD2	6.00	112.10	106.10
1	3d	214	MET	CA-C-O	-6.00	114.48	120.90
1	3i	74	ASN	N-CA-CB	6.00	118.71	110.01
1	3Y	63	GLN	CA-C-N	6.00	128.24	120.44
1	3Y	63	GLN	C-N-CA	6.00	128.24	120.44
1	3Y	124	ILE	O-C-N	-6.00	115.54	121.12
1	47	114	GLN	CA-C-O	-6.00	114.52	120.82
1	4l	132	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	4q	83	LEU	N-CA-C	6.00	117.90	111.36
1	4r	121	ASN	CA-CB-CG	-6.00	106.60	112.60
1	4E	185	MET	CG-SD-CE	-6.00	87.70	100.90
1	4H	162	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	4I	174	ALA	O-C-N	6.00	128.25	122.07
1	4O	50	GLN	CA-C-O	6.00	127.32	120.90
1	4T	72	THR	CA-C-N	6.00	128.94	120.42
1	4T	72	THR	C-N-CA	6.00	128.94	120.42
1	55	43	LEU	O-C-N	-6.00	115.20	122.22
1	5m	10	MET	N-CA-C	6.00	118.45	110.53
1	5V	153	ILE	CA-C-O	-6.00	117.41	122.63
1	67	63	GLN	N-CA-C	6.00	117.82	111.28
1	6e	200	THR	CA-C-N	6.00	128.12	120.56
1	6e	200	THR	C-N-CA	6.00	128.12	120.56
1	6l	142	VAL	N-CA-C	6.00	116.17	110.53
1	6H	128	GLU	N-CA-C	6.00	117.82	111.28
1	70	138	LEU	N-CA-C	6.00	117.82	111.28
1	7r	7	GLN	N-CA-CB	-6.00	101.32	110.92
1	7r	155	GLN	CA-CB-CG	6.00	126.10	114.10
1	7s	213	GLU	CA-C-N	6.00	128.81	120.29
1	7s	213	GLU	C-N-CA	6.00	128.81	120.29
1	7L	89	GLY	CA-C-O	-6.00	116.20	122.38
1	7S	14	ALA	CA-C-O	6.00	127.91	121.55
1	8h	9	GLN	O-C-N	-6.00	116.34	123.06
1	8l	98	GLU	CB-CG-CD	-6.00	102.40	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	223	GLY	CA-C-N	6.00	127.34	119.84
1	8u	223	GLY	C-N-CA	6.00	127.34	119.84
1	8v	162	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	8C	201	ILE	N-CA-C	6.00	118.59	111.09
1	8V	155	GLN	N-CA-C	6.00	119.06	110.24
1	98	131	LYS	N-CA-C	6.00	117.82	111.28
1	9s	230	VAL	O-C-N	-6.00	116.13	122.67
1	9t	214	MET	CA-C-O	-6.00	114.19	120.55
1	9G	162	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	9K	56	LEU	N-CA-C	6.00	117.82	111.28
1	9M	12	HIS	CA-C-O	6.00	127.46	120.80
1	a4	26	VAL	O-C-N	-6.00	116.05	121.87
1	aa	42	ALA	CA-C-O	6.00	126.78	120.42
1	11	70	LYS	CA-C-N	6.00	128.32	120.28
1	11	70	LYS	C-N-CA	6.00	128.32	120.28
1	av	226	HIS	CA-CB-CG	6.00	119.80	113.80
1	aH	181	VAL	CA-C-O	6.00	126.73	120.25
1	aO	136	LEU	CA-C-N	6.00	126.77	119.99
1	aO	136	LEU	C-N-CA	6.00	126.77	119.99
1	aQ	166	ASP	O-C-N	-6.00	115.89	122.07
1	aX	20	LEU	N-CA-C	6.00	117.49	111.07
1	b9	169	TYR	CA-C-O	-6.00	114.52	120.82
1	bk	179	GLN	N-CA-CB	6.00	118.94	110.12
1	bx	86	VAL	N-CA-C	6.00	115.37	106.85
1	bx	120	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	by	84	HIS	CG-CD2-NE2	6.00	113.20	107.20
1	bC	81	ASP	N-CA-C	6.00	117.90	111.36
1	bP	185	MET	CG-SD-CE	-6.00	87.70	100.90
1	bS	179	GLN	N-CA-C	6.00	117.82	111.28
1	bX	123	PRO	CA-C-O	-6.00	114.81	121.23
1	co	13	GLN	CA-C-N	6.00	129.23	120.71
1	co	13	GLN	C-N-CA	6.00	129.23	120.71
1	cp	12	HIS	CA-CB-CG	6.00	119.80	113.80
1	cG	5	ASN	CA-CB-CG	-6.00	106.60	112.60
1	cJ	120	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	cS	210	THR	CA-C-N	6.00	129.43	120.31
1	cS	210	THR	C-N-CA	6.00	129.43	120.31
1	cZ	23	TRP	N-CA-C	6.00	118.31	111.11
1	1i	168	PHE	O-C-N	-6.00	115.89	122.07
1	d4	148	THR	CA-CB-OG1	6.00	118.60	109.60
1	db	65	ALA	CA-C-N	6.00	128.32	120.28
1	db	65	ALA	C-N-CA	6.00	128.32	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	219	GLN	OE1-CD-NE2	-6.00	116.60	122.60
1	dA	58	THR	OG1-CB-CG2	-6.00	97.30	109.30
1	dQ	163	ASP	CA-C-N	6.00	128.24	120.44
1	dQ	163	ASP	C-N-CA	6.00	128.24	120.44
1	dR	176	GLN	CA-C-N	6.00	132.84	122.64
1	dR	176	GLN	C-N-CA	6.00	132.84	122.64
1	ek	136	LEU	CA-C-N	6.00	126.48	119.94
1	ek	136	LEU	C-N-CA	6.00	126.48	119.94
1	et	118	MET	N-CA-C	6.00	118.61	111.71
1	ey	168	PHE	O-C-N	6.00	128.48	122.12
1	eH	50	GLN	OE1-CD-NE2	6.00	128.60	122.60
1	eQ	20	LEU	N-CA-C	6.00	117.82	111.28
1	eZ	162	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	fc	27	VAL	N-CA-C	6.00	116.17	110.53
1	fk	36	VAL	CA-C-N	6.00	124.02	120.24
1	fk	36	VAL	C-N-CA	6.00	124.02	120.24
1	fo	176	GLN	O-C-N	6.00	129.54	122.34
1	fq	12	HIS	CA-CB-CG	6.00	119.80	113.80
1	1x	15	ILE	O-C-N	-6.00	116.27	122.63
1	fE	216	THR	N-CA-CB	6.00	119.62	110.44
1	fU	140	LYS	O-C-N	-6.00	115.89	122.07
1	j	1	PRO	CB-CA-C	6.00	121.50	110.10
1	k	214	MET	CA-C-N	6.00	128.32	120.28
1	k	214	MET	C-N-CA	6.00	128.32	120.28
1	p	96	MET	N-CA-C	6.00	118.70	110.24
1	W	67	GLN	CA-C-N	6.00	128.24	120.44
1	W	67	GLN	C-N-CA	6.00	128.24	120.44
1	gg	35	GLU	N-CA-C	-6.00	106.00	113.38
1	gk	145	TYR	CB-CA-C	6.00	119.90	109.65
1	gu	71	GLU	CA-C-N	6.00	128.24	120.44
1	gu	71	GLU	C-N-CA	6.00	128.24	120.44
1	gE	171	THR	N-CA-C	6.00	117.49	111.07
1	h8	12	HIS	CB-CA-C	6.00	120.49	109.46
1	hc	33	SER	CA-C-N	6.00	126.11	119.87
1	hc	33	SER	C-N-CA	6.00	126.11	119.87
1	hl	205	LEU	CA-C-N	6.00	131.28	121.87
1	hl	205	LEU	C-N-CA	6.00	131.28	121.87
1	hm	58	THR	N-CA-CB	6.00	119.87	110.46
1	hA	61	GLY	O-C-N	-6.00	116.87	123.05
1	hG	171	THR	N-CA-CB	6.00	118.70	110.01
1	i6	3	VAL	CA-C-N	6.00	132.99	121.54
1	i6	3	VAL	C-N-CA	6.00	132.99	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i6	130	TYR	CA-C-N	6.00	128.32	120.28
1	i6	130	TYR	C-N-CA	6.00	128.32	120.28
1	ie	116	GLY	CA-C-N	6.00	130.84	120.58
1	ie	116	GLY	C-N-CA	6.00	130.84	120.58
1	ie	220	GLY	O-C-N	6.00	129.76	122.32
1	in	199	LYS	CA-C-N	6.00	128.81	120.29
1	in	199	LYS	C-N-CA	6.00	128.81	120.29
1	iE	191	VAL	CA-C-N	6.00	128.31	120.28
1	iE	191	VAL	C-N-CA	6.00	128.31	120.28
1	iM	224	PRO	O-C-N	6.00	130.74	122.64
1	jk	193	ASN	CA-C-N	6.00	129.81	120.75
1	jk	193	ASN	C-N-CA	6.00	129.81	120.75
1	jv	194	ALA	N-CA-C	6.00	118.64	110.55
1	jJ	14	ALA	N-CA-C	6.00	118.95	110.50
1	1Y	125	PRO	CA-C-N	6.00	128.99	120.53
1	1Y	125	PRO	C-N-CA	6.00	128.99	120.53
1	jS	34	PRO	CA-C-N	6.00	129.13	120.38
1	jS	34	PRO	C-N-CA	6.00	129.13	120.38
1	jS	84	HIS	CG-CD2-NE2	6.00	113.20	107.20
1	jV	36	VAL	N-CA-C	6.00	116.66	110.36
1	1Z	100	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	k1	160	PRO	N-CA-C	6.00	124.83	112.47
1	k8	161	PHE	N-CA-C	6.00	118.59	111.33
1	21	51	ASP	CA-C-N	6.00	128.31	120.28
1	21	51	ASP	C-N-CA	6.00	128.31	120.28
1	ky	71	GLU	N-CA-CB	6.00	118.88	109.94
1	kK	128	GLU	N-CA-C	6.00	117.82	111.28
1	kT	58	THR	OG1-CB-CG2	-6.00	97.31	109.30
1	l3	136	LEU	CA-C-O	6.00	127.31	120.90
1	26	197	ASP	CA-C-O	6.00	127.12	120.82
1	lh	4	GLN	O-C-N	-6.00	115.58	122.89
1	ll	51	ASP	N-CA-C	6.00	117.82	111.28
1	2d	73	ILE	CA-C-N	6.00	128.64	120.54
1	2d	73	ILE	C-N-CA	6.00	128.64	120.54
1	2N	147	PRO	N-CA-CB	-6.00	96.95	103.25
1	35	2	ILE	N-CA-CB	6.00	118.91	111.41
1	3k	22	ALA	CA-C-N	6.00	128.60	120.44
1	3k	22	ALA	C-N-CA	6.00	128.60	120.44
1	3o	177	ALA	N-CA-C	6.00	118.04	110.24
1	3o	198	CYS	CA-C-N	6.00	128.60	120.38
1	3o	198	CYS	C-N-CA	6.00	128.60	120.38
1	3s	84	HIS	ND1-CE1-NE2	6.00	114.40	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3D	92	GLU	CA-C-O	-6.00	113.80	119.80
1	3L	200	THR	N-CA-CB	6.00	118.88	109.94
1	3N	197	ASP	CA-CB-CG	6.00	118.60	112.60
1	3U	100	ARG	NE-CZ-NH2	-6.00	113.80	119.20
1	47	121	ASN	OD1-CG-ND2	-6.00	116.60	122.60
1	4j	187	GLU	N-CA-C	6.00	117.90	111.36
1	4s	10	MET	CG-SD-CE	-6.00	87.71	100.90
1	4B	144	MET	CA-C-O	6.00	126.88	120.70
1	4S	202	LEU	CA-C-O	-6.00	114.19	120.55
1	4X	62	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	4X	203	LYS	N-CA-C	6.00	118.59	111.33
1	4Y	84	HIS	ND1-CE1-NE2	6.00	114.40	108.40
1	55	228	ALA	N-CA-CB	-6.00	101.27	110.44
1	5h	33	SER	N-CA-C	-6.00	100.37	108.11
1	5n	103	ASP	N-CA-C	6.00	117.81	111.28
1	5A	114	GLN	N-CA-C	6.00	117.48	111.07
1	5A	183	ASN	N-CA-C	-6.00	104.86	111.82
1	5B	220	GLY	O-C-N	-6.00	115.78	122.68
1	5O	113	GLU	CA-C-N	6.00	128.32	120.28
1	5O	113	GLU	C-N-CA	6.00	128.32	120.28
1	5Q	146	SER	CA-C-N	6.00	125.55	119.19
1	5Q	146	SER	C-N-CA	6.00	125.55	119.19
1	66	183	ASN	CA-CB-CG	6.00	118.60	112.60
1	69	39	MET	N-CA-CB	-6.00	101.30	110.12
1	6m	7	GLN	N-CA-CB	6.00	121.85	111.00
1	6o	25	LYS	N-CA-C	6.00	117.82	111.28
1	6p	81	ASP	N-CA-C	6.00	117.82	111.28
1	6q	138	LEU	N-CA-C	6.00	117.81	111.28
1	6w	188	THR	N-CA-C	-6.00	105.96	113.28
1	6B	5	ASN	CA-CB-CG	6.00	118.60	112.60
1	6G	130	TYR	CA-C-O	6.00	126.91	120.55
1	6R	16	SER	N-CA-CB	6.00	119.14	109.90
1	6Y	86	VAL	CB-CA-C	6.00	119.37	111.33
1	74	149	SER	CA-C-N	6.00	128.68	120.46
1	74	149	SER	C-N-CA	6.00	128.68	120.46
1	7m	167	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	7X	154	ARG	NE-CZ-NH1	-6.00	115.50	121.50
1	7Z	14	ALA	CA-C-N	6.00	130.17	121.18
1	7Z	14	ALA	C-N-CA	6.00	130.17	121.18
1	87	206	GLY	O-C-N	-6.00	115.77	121.77
1	88	79	GLU	N-CA-C	6.00	117.81	111.28
1	8J	193	ASN	CA-C-N	6.00	132.32	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8J	193	ASN	C-N-CA	6.00	132.32	122.07
1	95	177	ALA	N-CA-C	6.00	118.04	110.24
1	9w	131	LYS	CA-C-N	6.00	128.32	120.28
1	9w	131	LYS	C-N-CA	6.00	128.32	120.28
1	9A	139	ASN	OD1-CG-ND2	6.00	128.60	122.60
1	9F	171	THR	CB-CA-C	-6.00	101.43	110.90
1	9G	126	VAL	N-CA-CB	6.00	117.57	110.55
1	9M	205	LEU	CA-C-N	6.00	131.29	121.87
1	9M	205	LEU	C-N-CA	6.00	131.29	121.87
1	9O	117	TRP	N-CA-C	6.00	118.78	111.82
1	a9	190	LEU	N-CA-C	6.00	117.81	111.28
1	aj	161	PHE	CB-CA-C	6.00	120.75	110.79
1	au	104	ILE	N-CA-CB	6.00	117.17	110.51
1	aL	126	VAL	N-CA-C	6.00	116.74	110.62
1	aM	208	ALA	CA-C-O	-6.00	113.77	120.66
1	b2	23	TRP	CA-C-N	-6.00	112.24	120.46
1	b2	23	TRP	C-N-CA	-6.00	112.24	120.46
1	b5	181	VAL	O-C-N	-6.00	116.03	121.91
1	bz	4	GLN	O-C-N	-6.00	114.89	122.27
1	bG	219	GLN	CA-C-O	6.00	127.81	120.92
1	1d	65	ALA	O-C-N	-6.00	115.89	122.07
1	cS	105	ALA	O-C-N	-6.00	114.09	122.37
1	d1	204	ALA	CA-C-N	6.00	128.23	120.44
1	d1	204	ALA	C-N-CA	6.00	128.23	120.44
1	d6	171	THR	CA-C-O	6.00	126.91	120.55
1	da	161	PHE	CB-CA-C	6.00	121.04	110.85
1	dc	23	TRP	N-CA-C	6.00	117.82	111.28
1	do	137	GLY	CA-C-N	6.00	128.60	120.38
1	do	137	GLY	C-N-CA	6.00	128.60	120.38
1	dz	82	ARG	NH1-CZ-NH2	-6.00	111.51	119.30
1	dQ	112	GLN	CA-C-N	6.00	128.24	120.44
1	dQ	112	GLN	C-N-CA	6.00	128.24	120.44
1	dR	202	LEU	N-CA-C	6.00	117.82	111.28
1	1n	104	ILE	CA-C-O	6.00	127.71	121.05
1	dY	72	THR	O-C-N	-6.00	115.31	122.15
1	dY	168	PHE	N-CA-C	-6.00	104.65	111.07
1	dZ	147	PRO	N-CA-CB	6.00	109.55	103.25
1	ev	54	THR	OG1-CB-CG2	-6.00	97.31	109.30
1	eC	216	THR	N-CA-C	-6.00	105.61	113.17
1	eS	89	GLY	CA-C-O	-6.00	112.95	121.52
1	fi	43	LEU	CD1-CG-CD2	-6.00	97.61	110.80
1	fl	12	HIS	CA-C-O	6.00	127.70	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fm	212	GLU	CA-C-N	6.00	128.24	120.44
1	fm	212	GLU	C-N-CA	6.00	128.24	120.44
1	fR	208	ALA	N-CA-C	6.00	120.11	113.21
1	g0	112	GLN	N-CA-C	6.00	117.81	111.28
1	g1	229	ARG	CA-C-N	6.00	132.76	121.97
1	g1	229	ARG	C-N-CA	6.00	132.76	121.97
1	C	117	TRP	CG-CD2-CE3	-6.00	127.90	133.90
1	N	165	VAL	CA-C-N	6.00	129.13	120.79
1	N	165	VAL	C-N-CA	6.00	129.13	120.79
1	O	215	MET	N-CA-C	6.00	117.49	111.07
1	Q	41	SER	O-C-N	-6.00	115.89	122.07
1	S	120	HIS	CA-CB-CG	-6.00	107.80	113.80
1	gp	139	ASN	N-CA-C	6.00	118.58	111.33
1	gX	120	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
1	gZ	50	GLN	OE1-CD-NE2	6.00	128.59	122.60
1	hr	15	ILE	O-C-N	-6.00	115.08	122.57
1	hr	66	MET	CA-C-O	6.00	126.90	120.55
1	hE	63	GLN	CA-C-O	-6.00	114.06	120.42
1	hR	17	PRO	N-CA-CB	6.00	109.27	103.51
1	hV	10	MET	N-CA-C	6.00	118.74	110.35
1	1N	144	MET	CG-SD-CE	-6.00	87.71	100.90
1	iw	127	GLY	O-C-N	-6.00	116.38	122.19
1	iH	182	LYS	CA-C-N	6.00	128.23	120.44
1	iH	182	LYS	C-N-CA	6.00	128.23	120.44
1	iN	165	VAL	N-CA-C	-6.00	104.89	110.53
1	iO	33	SER	N-CA-CB	6.00	118.38	110.29
1	iQ	32	PHE	CB-CA-C	6.00	122.03	111.06
1	iS	144	MET	CG-SD-CE	-6.00	87.71	100.90
1	iS	152	ASP	N-CA-C	-6.00	105.28	112.59
1	j0	143	ARG	CA-C-N	6.00	128.31	120.28
1	j0	143	ARG	C-N-CA	6.00	128.31	120.28
1	jc	154	ARG	O-C-N	-6.00	116.42	123.25
1	jz	191	VAL	CA-C-N	6.00	128.31	120.28
1	jz	191	VAL	C-N-CA	6.00	128.31	120.28
1	jQ	83	LEU	CD1-CG-CD2	-6.00	97.61	110.80
1	k2	2	ILE	N-CA-C	-6.00	99.79	108.36
1	k2	24	VAL	CA-C-N	6.00	128.80	120.29
1	k2	24	VAL	C-N-CA	6.00	128.80	120.29
1	kd	143	ARG	NE-CZ-NH2	6.00	124.60	119.20
1	kg	166	ASP	N-CA-CB	-6.00	101.32	110.01
1	kA	115	ILE	CA-C-N	6.00	126.77	119.99
1	kA	115	ILE	C-N-CA	6.00	126.77	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	106	GLY	CA-C-N	6.00	128.23	120.44
1	kC	106	GLY	C-N-CA	6.00	128.23	120.44
1	l0	59	VAL	N-CA-C	6.00	116.47	110.23
1	ll	14	ALA	CA-C-O	-6.00	115.19	121.55
1	lA	201	ILE	N-CA-C	6.00	116.17	110.42
1	lD	131	LYS	O-C-N	6.00	128.25	122.07
1	lK	206	GLY	CA-C-N	6.00	125.55	119.19
1	lK	206	GLY	C-N-CA	6.00	125.55	119.19
1	31	165	VAL	CB-CA-C	6.00	120.23	112.14
1	3b	168	PHE	CA-CB-CG	6.00	119.80	113.80
1	3i	168	PHE	N-CA-C	6.00	117.48	111.07
1	3M	52	LEU	N-CA-C	6.00	117.48	111.07
1	40	11	VAL	O-C-N	-6.00	117.75	122.97
1	43	99	PRO	N-CA-CB	-6.00	98.08	103.36
1	5F	162	ARG	NE-CZ-NH1	6.00	127.50	121.50
1	5N	59	VAL	CA-C-O	6.00	127.77	121.59
1	5X	171	THR	O-C-N	-6.00	115.77	122.12
1	5Z	79	GLU	CA-C-N	6.00	128.80	120.29
1	5Z	79	GLU	C-N-CA	6.00	128.80	120.29
1	6h	184	TRP	CE3-CZ3-CH2	6.00	128.89	121.10
1	6t	206	GLY	CA-C-N	6.00	127.33	119.84
1	6t	206	GLY	C-N-CA	6.00	127.33	119.84
1	6K	87	HIS	N-CA-C	6.00	118.74	110.35
1	7l	164	TYR	CB-CA-C	6.00	120.29	110.88
1	7l	227	LYS	CA-C-N	6.00	130.24	121.31
1	7l	227	LYS	C-N-CA	6.00	130.24	121.31
1	7y	220	GLY	O-C-N	-6.00	117.14	122.77
1	7Q	197	ASP	CA-CB-CG	-6.00	106.61	112.60
1	8A	33	SER	O-C-N	-6.00	116.02	121.66
1	9t	136	LEU	N-CA-C	6.00	117.81	111.28
1	9z	105	ALA	CA-C-O	6.00	126.53	119.28
1	9L	42	ALA	N-CA-CB	-6.00	100.67	110.14
1	ae	164	TYR	N-CA-C	6.00	117.81	111.28
1	aT	25	LYS	N-CA-CB	6.00	119.03	110.16
1	bp	10	MET	CA-C-O	6.00	126.78	120.36
1	br	68	MET	CA-C-N	6.00	128.23	120.44
1	br	68	MET	C-N-CA	6.00	128.23	120.44
1	bx	125	PRO	CA-C-N	6.00	128.98	120.53
1	bx	125	PRO	C-N-CA	6.00	128.98	120.53
1	cm	84	HIS	CB-CG-CD2	6.00	138.99	131.20
1	d3	182	LYS	N-CA-C	6.00	117.81	111.28
1	1n	210	THR	N-CA-C	-6.00	102.46	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dX	182	LYS	N-CA-C	6.00	117.81	111.28
1	e0	156	GLY	CA-C-N	6.00	127.33	119.84
1	e0	156	GLY	C-N-CA	6.00	127.33	119.84
1	ee	204	ALA	O-C-N	-6.00	115.77	122.12
1	ef	100	ARG	CA-C-N	6.00	127.68	120.13
1	ef	100	ARG	C-N-CA	6.00	127.68	120.13
1	ew	135	ILE	N-CA-C	6.00	116.73	110.62
1	eJ	3	VAL	CA-CB-CG2	6.00	120.59	110.40
1	eW	217	ALA	N-CA-C	6.00	118.50	110.35
1	fg	54	THR	O-C-N	-6.00	115.77	122.12
1	fo	189	LEU	CA-C-N	6.00	128.63	120.54
1	fo	189	LEU	C-N-CA	6.00	128.63	120.54
1	fw	10	MET	CA-C-O	-6.00	113.86	120.69
1	fG	123	PRO	CB-CA-C	-6.00	103.73	111.46
1	fN	162	ARG	CA-C-O	6.00	126.91	120.55
1	fW	82	ARG	NH1-CZ-NH2	-6.00	111.51	119.30
1	x	141	ILE	CA-C-N	6.00	128.67	120.46
1	x	141	ILE	C-N-CA	6.00	128.67	120.46
1	H	135	ILE	N-CA-C	6.00	116.78	110.72
1	N	104	ILE	O-C-N	-6.00	116.05	121.87
1	6	72	THR	CA-C-O	6.00	126.91	120.55
1	g8	52	LEU	N-CA-C	5.99	117.48	111.07
1	gc	149	SER	CA-C-N	5.99	128.98	120.53
1	gc	149	SER	C-N-CA	5.99	128.98	120.53
1	gc	229	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	gf	54	THR	O-C-N	-5.99	115.32	122.15
1	gs	191	VAL	CA-C-N	5.99	128.31	120.28
1	gs	191	VAL	C-N-CA	5.99	128.31	120.28
1	gA	16	SER	CA-C-N	5.99	126.10	119.87
1	gA	16	SER	C-N-CA	5.99	126.10	119.87
1	gC	84	HIS	CB-CA-C	-5.99	101.54	110.71
1	gC	84	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	gG	110	THR	CA-C-N	5.99	128.31	120.28
1	gG	110	THR	C-N-CA	5.99	128.31	120.28
1	gI	169	TYR	N-CA-C	5.99	117.81	111.28
1	h9	212	GLU	CB-CA-C	5.99	120.40	110.81
1	hd	16	SER	N-CA-C	5.99	117.36	109.93
1	hg	84	HIS	CA-C-N	5.99	127.33	119.84
1	hg	84	HIS	C-N-CA	5.99	127.33	119.84
1	hw	40	PHE	N-CA-C	-5.99	104.66	111.07
1	hB	228	ALA	N-CA-C	5.99	119.29	110.30
1	i8	70	LYS	N-CA-C	5.99	117.81	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	im	162	ARG	CD-NE-CZ	5.99	132.79	124.40
1	iN	223	GLY	CA-C-N	5.99	127.33	119.84
1	iN	223	GLY	C-N-CA	5.99	127.33	119.84
1	iQ	149	SER	N-CA-CB	5.99	120.62	110.49
1	jm	197	ASP	CA-C-N	5.99	128.31	120.28
1	jm	197	ASP	C-N-CA	5.99	128.31	120.28
1	jx	7	GLN	N-CA-CB	5.99	120.62	110.49
1	jK	22	ALA	CA-C-N	5.99	128.56	120.65
1	jK	22	ALA	C-N-CA	5.99	128.56	120.65
1	jY	136	LEU	CA-C-N	5.99	126.74	120.03
1	jY	136	LEU	C-N-CA	5.99	126.74	120.03
1	kf	166	ASP	CA-C-N	5.99	128.31	120.28
1	kf	166	ASP	C-N-CA	5.99	128.31	120.28
1	kh	107	THR	CA-CB-CG2	5.99	120.69	110.50
1	ku	141	ILE	CB-CA-C	-5.99	102.55	112.26
1	kT	181	VAL	CA-CB-CG1	5.99	120.59	110.40
1	l4	150	ILE	CA-C-O	5.99	126.83	119.58
1	lz	121	ASN	CA-CB-CG	-5.99	106.61	112.60
1	29	5	ASN	N-CA-C	5.99	118.95	109.96
1	2f	87	HIS	CB-CG-CD2	5.99	138.99	131.20
1	2t	180	GLU	CA-C-N	5.99	128.67	120.46
1	2t	180	GLU	C-N-CA	5.99	128.67	120.46
1	2v	40	PHE	CA-C-N	5.99	128.23	120.44
1	2v	40	PHE	C-N-CA	5.99	128.23	120.44
1	2R	130	TYR	O-C-N	-5.99	114.90	122.27
1	2Y	51	ASP	CA-CB-CG	5.99	118.59	112.60
1	33	163	ASP	N-CA-C	5.99	118.77	111.82
1	34	109	SER	CA-C-O	5.99	126.91	120.38
1	3i	139	ASN	CA-C-N	5.99	128.80	120.29
1	3i	139	ASN	C-N-CA	5.99	128.80	120.29
1	3i	156	GLY	CA-C-N	5.99	125.87	119.28
1	3i	156	GLY	C-N-CA	5.99	125.87	119.28
1	3j	11	VAL	N-CA-CB	5.99	121.27	111.44
1	3r	22	ALA	CA-C-N	5.99	128.31	120.28
1	3r	22	ALA	C-N-CA	5.99	128.31	120.28
1	3C	54	THR	CA-CB-CG2	5.99	120.69	110.50
1	3I	206	GLY	O-C-N	-5.99	115.78	121.77
1	41	189	LEU	CA-C-N	5.99	128.63	120.54
1	41	189	LEU	C-N-CA	5.99	128.63	120.54
1	43	42	ALA	CA-C-O	-5.99	114.20	120.55
1	44	87	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	4J	31	ALA	O-C-N	-5.99	114.62	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5b	133	TRP	N-CA-C	5.99	117.89	111.36
1	5f	72	THR	CA-C-N	5.99	128.11	120.56
1	5f	72	THR	C-N-CA	5.99	128.11	120.56
1	5H	4	GLN	CG-CD-NE2	-5.99	107.41	116.40
1	5P	132	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
1	5U	207	PRO	N-CA-CB	-5.99	97.20	103.19
1	5V	107	THR	N-CA-C	5.99	117.48	111.07
1	6h	166	ASP	CA-CB-CG	5.99	118.59	112.60
1	6r	141	ILE	O-C-N	-5.99	116.04	121.91
1	6v	29	GLU	CB-CG-CD	-5.99	102.41	112.60
1	6B	212	GLU	CA-C-O	5.99	126.86	119.79
1	6N	189	LEU	CA-C-O	-5.99	112.81	119.40
1	73	132	ARG	CA-C-O	5.99	126.90	120.55
1	77	67	GLN	N-CA-C	5.99	117.81	111.28
1	7k	86	VAL	O-C-N	-5.99	116.86	123.03
1	7n	214	MET	CA-C-N	5.99	128.63	120.54
1	7n	214	MET	C-N-CA	5.99	128.63	120.54
1	7o	174	ALA	CA-C-O	5.99	126.66	119.59
1	7q	120	HIS	CB-CG-ND1	-5.99	113.71	122.70
1	7s	132	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	7w	209	ALA	N-CA-C	5.99	119.03	110.10
1	7x	191	VAL	CA-C-O	5.99	125.42	119.97
1	7U	80	TRP	CA-C-N	5.99	129.42	120.31
1	7U	80	TRP	C-N-CA	5.99	129.42	120.31
1	7U	95	GLN	O-C-N	-5.99	117.01	123.42
1	8J	53	ASN	N-CA-C	5.99	117.81	111.28
1	93	70	LYS	CA-C-N	5.99	128.59	120.38
1	93	70	LYS	C-N-CA	5.99	128.59	120.38
1	96	36	VAL	CB-CA-C	5.99	119.64	111.97
1	9x	87	HIS	N-CA-C	5.99	118.40	109.59
1	9y	128	GLU	N-CA-CB	5.99	119.03	110.16
1	9L	63	GLN	OE1-CD-NE2	5.99	128.59	122.60
1	9N	15	ILE	N-CA-CB	5.99	120.20	110.13
1	9T	88	ALA	N-CA-CB	-5.99	101.69	110.26
1	9W	56	LEU	CA-C-N	5.99	128.80	120.29
1	9W	56	LEU	C-N-CA	5.99	128.80	120.29
1	ag	13	GLN	CB-CG-CD	5.99	122.79	112.60
1	au	14	ALA	CA-C-O	5.99	128.46	121.87
1	aA	32	PHE	CB-CG-CD2	-5.99	110.51	120.70
1	aB	85	PRO	N-CA-CB	5.99	107.11	102.73
1	aJ	210	THR	O-C-N	-5.99	116.26	123.03
1	aM	39	MET	CG-SD-CE	-5.99	87.71	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	be	50	GLN	CA-CB-CG	5.99	126.08	114.10
1	bn	183	ASN	N-CA-C	5.99	117.81	111.28
1	bF	195	ASN	N-CA-CB	5.99	118.59	110.14
1	1b	97	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	c1	62	HIS	CA-C-N	5.99	128.31	120.28
1	c1	62	HIS	C-N-CA	5.99	128.31	120.28
1	c9	77	ALA	CA-C-N	5.99	128.63	120.54
1	c9	77	ALA	C-N-CA	5.99	128.63	120.54
1	1h	204	ALA	CA-C-N	5.99	128.59	120.44
1	1h	204	ALA	C-N-CA	5.99	128.59	120.44
1	d5	11	VAL	O-C-N	-5.99	116.14	123.09
1	d6	114	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	1l	65	ALA	N-CA-C	5.99	117.48	111.07
1	1l	179	GLN	CA-C-N	5.99	128.31	120.28
1	1l	179	GLN	C-N-CA	5.99	128.31	120.28
1	1l	217	ALA	N-CA-C	5.99	117.78	110.41
1	dC	59	VAL	N-CA-C	5.99	116.80	108.89
1	dQ	182	LYS	CA-C-O	5.99	126.87	120.10
1	e5	202	LEU	CA-C-O	5.99	126.86	119.79
1	e8	182	LYS	CA-C-O	-5.99	114.16	120.63
1	ej	103	ASP	CA-CB-CG	-5.99	106.61	112.60
1	eu	201	ILE	O-C-N	-5.99	116.06	121.87
1	eA	137	GLY	O-C-N	-5.99	115.45	122.34
1	eH	227	LYS	CA-C-O	5.99	127.93	121.16
1	eM	56	LEU	O-C-N	-5.99	115.77	122.12
1	eM	90	PRO	CA-C-N	5.99	128.60	120.63
1	eM	90	PRO	C-N-CA	5.99	128.60	120.63
1	eW	166	ASP	N-CA-C	5.99	117.48	111.07
1	f9	68	MET	CA-C-N	5.99	128.23	120.44
1	f9	68	MET	C-N-CA	5.99	128.23	120.44
1	ff	193	ASN	CA-C-N	5.99	129.22	120.71
1	ff	193	ASN	C-N-CA	5.99	129.22	120.71
1	1x	169	TYR	CA-CB-CG	-5.99	103.11	113.90
1	fu	117	TRP	N-CA-C	5.99	118.77	111.82
1	g4	59	VAL	CB-CA-C	-5.99	104.05	112.14
1	j	119	THR	CA-CB-OG1	5.99	118.59	109.60
1	o	69	LEU	CA-C-N	5.99	128.23	120.44
1	o	69	LEU	C-N-CA	5.99	128.23	120.44
1	r	74	ASN	CA-C-O	-5.99	114.53	120.82
1	B	162	ARG	N-CA-C	5.99	118.30	111.11
1	K	154	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
1	N	108	THR	O-C-N	-5.99	114.53	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	105	ALA	CA-C-O	5.99	126.84	119.05
1	S	188	THR	CA-C-N	5.99	128.59	120.38
1	S	188	THR	C-N-CA	5.99	128.59	120.38
1	T	3	VAL	CA-C-N	5.99	132.83	122.64
1	T	3	VAL	C-N-CA	5.99	132.83	122.64
1	gp	86	VAL	CB-CA-C	-5.99	105.55	111.30
1	gJ	83	LEU	N-CA-C	5.99	117.48	111.07
1	gN	163	ASP	CA-C-N	5.99	128.23	120.44
1	gN	163	ASP	C-N-CA	5.99	128.23	120.44
1	gV	27	VAL	CA-C-O	5.99	126.83	119.58
1	h4	12	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	hi	168	PHE	CA-CB-CG	-5.99	107.81	113.80
1	hq	131	LYS	CA-C-O	-5.99	114.49	120.90
1	hL	185	MET	CA-C-N	5.99	128.63	120.54
1	hL	185	MET	C-N-CA	5.99	128.63	120.54
1	hY	143	ARG	N-CA-C	5.99	119.42	111.75
1	ig	49	PRO	CA-C-N	5.99	128.31	120.28
1	ig	49	PRO	C-N-CA	5.99	128.31	120.28
1	iH	164	TYR	CA-CB-CG	-5.99	103.11	113.90
1	1T	33	SER	CA-C-N	5.99	126.42	119.47
1	1T	33	SER	C-N-CA	5.99	126.42	119.47
1	jc	125	PRO	CA-C-N	5.99	128.98	120.53
1	jc	125	PRO	C-N-CA	5.99	128.98	120.53
1	je	206	GLY	O-C-N	5.99	127.76	121.77
1	k1	58	THR	CA-CB-OG1	5.99	118.59	109.60
1	kd	91	ILE	CA-CB-CG2	5.99	120.69	110.50
1	ki	134	ILE	O-C-N	-5.99	116.06	121.87
1	22	32	PHE	CA-CB-CG	-5.99	107.81	113.80
1	lF	141	ILE	O-C-N	-5.99	115.66	121.83
1	lH	129	ILE	N-CA-CB	5.99	117.56	110.55
1	2i	198	CYS	CA-C-N	5.99	128.59	120.38
1	2i	198	CYS	C-N-CA	5.99	128.59	120.38
1	32	227	LYS	N-CA-CB	5.99	120.62	110.49
1	33	173	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	36	200	THR	CA-C-O	5.99	126.90	120.55
1	3g	141	ILE	N-CA-C	5.99	116.73	110.62
1	3H	112	GLN	N-CA-C	5.99	117.81	111.28
1	3P	133	TRP	CA-C-O	5.99	127.11	120.82
1	3Z	145	TYR	CB-CA-C	-5.99	100.43	110.56
1	4e	86	VAL	O-C-N	-5.99	115.88	122.83
1	4f	210	THR	N-CA-CB	5.99	118.93	110.36
1	5d	74	ASN	OD1-CG-ND2	5.99	128.59	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5N	84	HIS	CA-C-N	5.99	126.00	119.89
1	5N	84	HIS	C-N-CA	5.99	126.00	119.89
1	5W	162	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
1	6C	10	MET	CB-CA-C	5.99	119.67	109.72
1	6K	140	LYS	CB-CA-C	-5.99	101.47	110.88
1	7p	192	GLN	N-CA-C	5.99	118.30	111.11
1	7W	173	ARG	CA-C-N	5.99	128.78	120.63
1	7W	173	ARG	C-N-CA	5.99	128.78	120.63
1	94	174	ALA	CA-C-N	5.99	129.22	120.71
1	94	174	ALA	C-N-CA	5.99	129.22	120.71
1	97	86	VAL	CA-C-N	5.99	129.35	120.90
1	97	86	VAL	C-N-CA	5.99	129.35	120.90
1	9F	40	PHE	CB-CG-CD2	-5.99	110.51	120.70
1	9Y	62	HIS	CB-CG-ND1	-5.99	113.71	122.70
1	a0	130	TYR	CA-C-N	5.99	128.91	120.28
1	a0	130	TYR	C-N-CA	5.99	128.91	120.28
1	aa	116	GLY	CA-C-O	5.99	127.22	121.05
1	aD	19	THR	CA-C-O	5.99	126.90	120.55
1	aD	77	ALA	CA-C-N	5.99	128.31	120.28
1	aD	77	ALA	C-N-CA	5.99	128.31	120.28
1	b8	44	SER	CA-C-O	5.99	127.60	120.53
1	bJ	215	MET	N-CA-C	5.99	117.89	111.36
1	c3	82	ARG	CA-C-O	5.99	126.89	120.24
1	cK	228	ALA	N-CA-C	5.99	119.15	110.28
1	dc	25	LYS	CA-C-O	-5.99	114.20	120.55
1	dA	118	MET	CA-C-O	5.99	126.86	119.97
1	dW	227	LYS	N-CA-C	-5.99	105.93	113.72
1	ed	36	VAL	N-CA-C	5.99	118.58	111.09
1	ei	75	GLU	N-CA-C	5.99	117.48	111.07
1	eB	153	ILE	CA-CB-CG1	5.99	120.59	110.40
1	fj	78	ALA	CA-C-N	5.99	128.31	120.28
1	fj	78	ALA	C-N-CA	5.99	128.31	120.28
1	fI	167	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	fL	211	LEU	N-CA-CB	5.99	119.61	110.14
1	L	111	LEU	CA-C-N	5.99	128.31	120.28
1	L	111	LEU	C-N-CA	5.99	128.31	120.28
1	5	101	GLY	CA-C-N	5.99	128.31	120.28
1	5	101	GLY	C-N-CA	5.99	128.31	120.28
1	gj	40	PHE	N-CA-C	5.99	118.30	111.11
1	gB	183	ASN	CA-C-N	5.99	128.23	120.44
1	gB	183	ASN	C-N-CA	5.99	128.23	120.44
1	1E	162	ARG	NE-CZ-NH2	5.99	124.59	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gH	196	PRO	CA-N-CD	-5.99	103.61	112.00
1	gT	3	VAL	O-C-N	-5.99	116.95	123.18
1	h3	190	LEU	O-C-N	-5.99	115.62	122.09
1	hf	134	ILE	CB-CA-C	-5.99	104.05	112.14
1	hs	122	PRO	CA-C-N	5.99	125.93	119.76
1	hs	122	PRO	C-N-CA	5.99	125.93	119.76
1	hv	163	ASP	N-CA-C	5.99	117.48	111.07
1	hx	219	GLN	CG-CD-NE2	-5.99	107.42	116.40
1	hA	4	GLN	O-C-N	-5.99	114.62	122.59
1	hB	200	THR	CA-C-N	5.99	128.11	120.56
1	hB	200	THR	C-N-CA	5.99	128.11	120.56
1	hH	100	ARG	NE-CZ-NH2	5.99	124.59	119.20
1	i4	14	ALA	N-CA-C	5.99	118.95	110.50
1	i4	186	THR	CA-CB-OG1	5.99	118.58	109.60
1	if	111	LEU	CA-C-N	5.99	128.59	120.38
1	if	111	LEU	C-N-CA	5.99	128.59	120.38
1	iz	183	ASN	CA-C-N	5.99	128.31	120.28
1	iz	183	ASN	C-N-CA	5.99	128.31	120.28
1	iO	12	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	iP	40	PHE	CA-C-N	5.99	128.59	120.38
1	iP	40	PHE	C-N-CA	5.99	128.59	120.38
1	iW	155	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	j5	173	ARG	NE-CZ-NH2	5.99	124.59	119.20
1	j7	141	ILE	N-CA-C	5.99	116.17	110.42
1	jd	62	HIS	CB-CG-CD2	-5.99	123.41	131.20
1	jo	62	HIS	N-CA-C	5.99	119.69	111.54
1	1Z	177	ALA	N-CA-C	5.99	118.95	110.50
1	21	2	ILE	N-CA-C	5.99	117.97	108.87
1	kr	39	MET	O-C-N	5.99	128.47	122.12
1	kv	147	PRO	CA-C-N	5.99	129.27	120.82
1	kv	147	PRO	C-N-CA	5.99	129.27	120.82
1	kw	62	HIS	N-CA-C	5.99	118.89	109.96
1	kI	135	ILE	O-C-N	-5.99	116.06	121.87
1	l8	66	MET	CA-C-O	5.99	126.77	120.42
1	ls	177	ALA	CA-C-N	5.99	129.35	120.90
1	ls	177	ALA	C-N-CA	5.99	129.35	120.90
1	lC	51	ASP	CA-CB-CG	-5.99	106.61	112.60
1	lD	68	MET	N-CA-C	5.99	117.81	111.28
1	lF	13	GLN	O-C-N	-5.99	115.36	123.15
1	2b	227	LYS	CA-C-O	5.99	127.31	120.54
1	2d	137	GLY	CA-C-N	5.99	128.59	120.38
1	2d	137	GLY	C-N-CA	5.99	128.59	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	59	VAL	N-CA-CB	5.99	117.56	110.55
1	2j	9	GLN	OE1-CD-NE2	5.99	128.59	122.60
1	2k	216	THR	CA-C-N	5.99	131.71	121.29
1	2k	216	THR	C-N-CA	5.99	131.71	121.29
1	2m	194	ALA	N-CA-C	5.99	118.44	110.53
1	2x	201	ILE	O-C-N	-5.99	116.04	121.91
1	2B	90	PRO	O-C-N	5.99	130.73	122.64
1	32	10	MET	N-CA-C	5.99	118.40	109.59
1	3a	197	ASP	CB-CA-C	5.99	120.28	110.88
1	3h	44	SER	N-CA-C	5.99	120.43	113.18
1	3k	73	ILE	CA-C-N	5.99	128.23	120.44
1	3k	73	ILE	C-N-CA	5.99	128.23	120.44
1	3x	152	ASP	N-CA-C	-5.99	105.55	112.92
1	3C	105	ALA	N-CA-C	5.99	118.60	111.71
1	3D	210	THR	CA-C-N	5.99	128.80	120.29
1	3D	210	THR	C-N-CA	5.99	128.80	120.29
1	3M	113	GLU	CA-C-N	5.99	128.31	120.28
1	3M	113	GLU	C-N-CA	5.99	128.31	120.28
1	3O	219	GLN	CB-CA-C	-5.99	99.41	109.53
1	3R	66	MET	N-CA-C	5.99	118.58	111.33
1	43	124	ILE	O-C-N	-5.99	114.27	121.10
1	48	45	GLU	N-CA-C	5.99	119.05	110.24
1	4g	226	HIS	N-CA-CB	5.99	118.87	109.94
1	4j	129	ILE	N-CA-C	5.99	116.17	110.42
1	4B	192	GLN	N-CA-C	5.99	118.60	111.71
1	4E	14	ALA	N-CA-C	5.99	118.69	110.24
1	4P	84	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	4R	13	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	50	147	PRO	N-CA-C	5.99	120.63	111.34
1	59	13	GLN	CA-C-N	5.99	129.22	120.71
1	59	13	GLN	C-N-CA	5.99	129.22	120.71
1	5j	106	GLY	CA-C-N	5.99	128.31	120.28
1	5j	106	GLY	C-N-CA	5.99	128.31	120.28
1	5r	16	SER	N-CA-C	5.99	118.35	110.08
1	5K	152	ASP	CA-C-N	5.99	128.53	120.50
1	5K	152	ASP	C-N-CA	5.99	128.53	120.50
1	5O	62	HIS	CG-CD2-NE2	-5.99	101.21	107.20
1	6f	78	ALA	N-CA-C	-5.99	104.83	111.36
1	6P	71	GLU	CA-C-N	5.99	128.31	120.28
1	6P	71	GLU	C-N-CA	5.99	128.31	120.28
1	6T	134	ILE	CA-C-N	5.99	128.11	120.56
1	6T	134	ILE	C-N-CA	5.99	128.11	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	24	VAL	N-CA-C	5.99	116.65	110.36
1	6Y	62	HIS	CA-C-N	5.99	129.12	120.79
1	6Y	62	HIS	C-N-CA	5.99	129.12	120.79
1	76	5	ASN	CA-CB-CG	5.99	118.59	112.60
1	79	133	TRP	N-CA-C	5.99	117.48	111.07
1	7S	164	TYR	CB-CG-CD1	-5.99	111.81	120.80
1	86	37	ILE	O-C-N	-5.99	116.59	120.42
1	88	12	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	8h	112	GLN	CA-C-O	-5.99	114.20	120.55
1	8l	90	PRO	CA-C-N	5.99	129.24	120.91
1	8l	90	PRO	C-N-CA	5.99	129.24	120.91
1	8m	71	GLU	CA-C-N	5.99	128.23	120.44
1	8m	71	GLU	C-N-CA	5.99	128.23	120.44
1	8n	53	ASN	CA-CB-CG	-5.99	106.61	112.60
1	8F	25	LYS	O-C-N	-5.99	114.40	122.43
1	8U	62	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	91	70	LYS	N-CA-C	5.99	117.81	111.28
1	9p	209	ALA	N-CA-C	5.99	118.50	110.35
1	9x	28	GLU	CA-C-O	-5.99	114.20	120.55
1	9E	34	PRO	CA-C-N	5.99	129.42	120.31
1	9E	34	PRO	C-N-CA	5.99	129.42	120.31
1	9R	113	GLU	CA-C-O	-5.99	114.53	120.70
1	a1	123	PRO	N-CA-C	5.99	120.64	111.11
1	a8	188	THR	N-CA-CB	-5.99	101.27	110.20
1	am	114	GLN	CA-C-O	-5.99	114.20	120.55
1	12	165	VAL	N-CA-CB	5.99	117.16	110.51
1	aF	5	ASN	N-CA-CB	5.99	118.85	109.69
1	aO	178	SER	O-C-N	-5.99	115.50	122.87
1	aQ	88	ALA	CA-C-N	5.99	129.03	121.36
1	aQ	88	ALA	C-N-CA	5.99	129.03	121.36
1	b8	104	ILE	CA-C-N	5.99	130.72	120.72
1	b8	104	ILE	C-N-CA	5.99	130.72	120.72
1	bd	97	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	be	51	ASP	CB-CA-C	-5.99	100.85	110.79
1	17	72	THR	N-CA-C	5.99	117.81	111.28
1	bE	59	VAL	CA-C-N	5.99	126.47	119.94
1	bE	59	VAL	C-N-CA	5.99	126.47	119.94
1	bO	77	ALA	CA-C-N	5.99	128.63	120.54
1	bO	77	ALA	C-N-CA	5.99	128.63	120.54
1	bW	54	THR	CA-CB-CG2	-5.99	100.32	110.50
1	c0	14	ALA	CA-C-N	5.99	128.76	120.49
1	c0	14	ALA	C-N-CA	5.99	128.76	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c2	193	ASN	N-CA-C	-5.99	105.62	113.17
1	cc	43	LEU	CA-C-O	5.99	126.78	119.11
1	ch	27	VAL	O-C-N	-5.99	113.61	121.82
1	cq	215	MET	N-CA-C	5.99	117.81	111.28
1	cP	18	ARG	N-CA-C	5.99	117.81	111.28
1	cW	58	THR	N-CA-C	5.99	117.48	111.07
1	cX	82	ARG	CD-NE-CZ	5.99	132.79	124.40
1	1j	10	MET	N-CA-C	5.99	118.92	110.23
1	dD	133	TRP	CD2-CE2-CZ2	-5.99	116.41	122.40
1	dU	175	GLU	CB-CA-C	5.99	119.89	109.65
1	e3	223	GLY	CA-C-N	5.99	127.33	119.84
1	e3	223	GLY	C-N-CA	5.99	127.33	119.84
1	ed	170	LYS	N-CA-CB	5.99	118.92	110.12
1	eg	171	THR	CA-C-N	5.99	133.26	121.58
1	eg	171	THR	C-N-CA	5.99	133.26	121.58
1	er	53	ASN	N-CA-CB	5.99	118.86	109.94
1	ez	71	GLU	N-CA-C	5.99	117.81	111.28
1	ez	166	ASP	N-CA-CB	5.99	118.70	110.01
1	eP	45	GLU	N-CA-CB	5.99	118.94	109.71
1	f1	137	GLY	O-C-N	-5.99	116.38	122.19
1	f5	78	ALA	CA-C-N	5.99	128.59	120.44
1	f5	78	ALA	C-N-CA	5.99	128.59	120.44
1	f8	136	LEU	CA-C-N	5.99	127.83	120.22
1	f8	136	LEU	C-N-CA	5.99	127.83	120.22
1	fv	59	VAL	N-CA-C	5.99	116.15	108.12
1	fZ	39	MET	CA-C-O	5.99	126.90	120.55
1	h	214	MET	N-CA-C	5.99	117.48	111.07
1	x	127	GLY	CA-C-N	5.99	128.59	120.38
1	x	127	GLY	C-N-CA	5.99	128.59	120.38
1	R	31	ALA	N-CA-C	5.99	118.60	111.71
1	R	84	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	W	38	PRO	CA-C-N	5.99	128.80	120.29
1	W	38	PRO	C-N-CA	5.99	128.80	120.29
1	g8	62	HIS	O-C-N	-5.99	115.39	122.58
1	gp	151	LEU	N-CA-C	5.99	117.89	111.36
1	gq	69	LEU	CA-C-N	5.99	128.23	120.44
1	gq	69	LEU	C-N-CA	5.99	128.23	120.44
1	gv	162	ARG	NH1-CZ-NH2	-5.99	111.52	119.30
1	gG	99	PRO	N-CA-CB	5.99	109.54	103.25
1	gQ	12	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	1G	229	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
1	h1	120	HIS	ND1-CE1-NE2	5.99	114.39	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	34	PRO	CA-N-CD	-5.99	103.62	112.00
1	h3	88	ALA	O-C-N	-5.99	115.21	123.12
1	h4	106	GLY	CA-C-N	5.99	128.22	120.44
1	h4	106	GLY	C-N-CA	5.99	128.22	120.44
1	h8	179	GLN	CA-C-O	5.99	127.31	120.90
1	hj	143	ARG	NH1-CZ-NH2	5.99	127.08	119.30
1	hn	97	ARG	O-C-N	-5.99	115.96	122.79
1	ht	110	THR	CA-CB-OG1	5.99	118.58	109.60
1	hz	216	THR	N-CA-CB	5.99	119.86	110.46
1	hL	102	SER	CA-C-N	5.99	128.59	120.44
1	hL	102	SER	C-N-CA	5.99	128.59	120.44
1	i2	21	ASN	CA-CB-CG	5.99	118.59	112.60
1	i2	104	ILE	CA-CB-CG2	-5.99	100.32	110.50
1	i6	166	ASP	CA-C-N	5.99	128.31	120.28
1	i6	166	ASP	C-N-CA	5.99	128.31	120.28
1	i9	48	THR	N-CA-CB	5.99	116.69	109.74
1	io	143	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	iI	84	HIS	CB-CG-ND1	5.99	131.68	122.70
1	iM	32	PHE	CA-CB-CG	-5.99	107.81	113.80
1	j5	27	VAL	O-C-N	-5.99	116.06	121.87
1	jf	93	PRO	O-C-N	-5.99	115.29	122.89
1	jy	135	ILE	CA-C-N	5.99	128.90	120.28
1	jy	135	ILE	C-N-CA	5.99	128.90	120.28
1	jG	119	THR	CA-C-O	5.99	126.66	119.59
1	k5	63	GLN	N-CA-C	5.99	117.81	111.28
1	kf	107	THR	N-CA-C	5.99	117.48	111.07
1	kw	201	ILE	CA-CB-CG2	-5.99	100.32	110.50
1	kx	38	PRO	O-C-N	-5.99	114.74	122.23
1	23	140	LYS	N-CA-CB	5.99	118.92	110.12
1	l1	165	VAL	O-C-N	-5.99	116.06	121.87
1	lb	87	HIS	CB-CG-CD2	-5.99	123.41	131.20
1	lc	135	ILE	CA-C-N	5.99	128.62	120.54
1	lc	135	ILE	C-N-CA	5.99	128.62	120.54
1	lf	68	MET	N-CA-C	5.99	118.30	111.11
1	2g	197	ASP	CA-CB-CG	-5.99	106.61	112.60
1	2A	28	GLU	N-CA-C	5.99	117.48	111.07
1	2E	191	VAL	N-CA-C	5.99	116.17	110.42
1	2N	219	GLN	CA-C-N	5.99	126.76	119.99
1	2N	219	GLN	C-N-CA	5.99	126.76	119.99
1	2Y	21	ASN	N-CA-C	5.99	117.48	111.07
1	3l	155	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	3s	12	HIS	CA-C-O	5.99	127.45	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3H	16	SER	CB-CA-C	-5.99	100.46	109.26
1	49	221	VAL	CA-C-N	5.99	128.19	120.64
1	49	221	VAL	C-N-CA	5.99	128.19	120.64
1	4K	128	GLU	CA-C-N	5.99	128.19	120.70
1	4K	128	GLU	C-N-CA	5.99	128.19	120.70
1	5c	18	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	5H	58	THR	CA-C-O	5.99	126.86	119.97
1	64	39	MET	N-CA-C	5.99	117.89	111.36
1	66	152	ASP	N-CA-C	5.99	119.69	112.38
1	6J	130	TYR	CA-C-N	5.99	128.22	120.44
1	6J	130	TYR	C-N-CA	5.99	128.22	120.44
1	6R	32	PHE	O-C-N	-5.99	115.39	122.58
1	78	26	VAL	N-CA-C	-5.99	104.67	110.72
1	7e	218	CYS	CB-CA-C	-5.99	103.84	111.86
1	7z	128	GLU	CA-C-N	5.99	128.11	120.56
1	7z	128	GLU	C-N-CA	5.99	128.11	120.56
1	8g	37	ILE	CA-C-O	-5.99	113.76	118.85
1	8L	215	MET	O-C-N	-5.99	114.41	122.43
1	8M	81	ASP	CA-CB-CG	5.99	118.59	112.60
1	9a	110	THR	CA-C-N	5.99	128.23	120.44
1	9a	110	THR	C-N-CA	5.99	128.23	120.44
1	9d	224	PRO	N-CA-C	5.99	120.63	111.11
1	9i	92	GLU	CA-C-N	5.99	126.01	119.90
1	9i	92	GLU	C-N-CA	5.99	126.01	119.90
1	9S	104	ILE	CA-C-O	5.99	127.20	120.85
1	9V	58	THR	N-CA-C	-5.99	105.47	112.89
1	au	40	PHE	CA-C-N	5.99	128.62	120.54
1	au	40	PHE	C-N-CA	5.99	128.62	120.54
1	aD	166	ASP	CA-C-N	5.99	128.23	120.44
1	aD	166	ASP	C-N-CA	5.99	128.23	120.44
1	aH	90	PRO	N-CA-C	5.99	120.63	111.11
1	aK	168	PHE	CA-CB-CG	5.99	119.79	113.80
1	14	117	TRP	CA-C-N	5.99	128.79	120.29
1	14	117	TRP	C-N-CA	5.99	128.79	120.29
1	aX	126	VAL	CA-CB-CG1	-5.99	100.22	110.40
1	15	227	LYS	O-C-N	-5.99	115.16	122.34
1	aZ	78	ALA	N-CA-C	5.99	117.89	111.36
1	bi	78	ALA	CB-CA-C	5.99	120.73	110.79
1	bE	229	ARG	CA-C-N	5.99	132.75	121.97
1	bE	229	ARG	C-N-CA	5.99	132.75	121.97
1	bI	62	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	bS	159	GLU	CA-C-N	5.99	126.00	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bS	159	GLU	C-N-CA	5.99	126.00	119.89
1	c0	123	PRO	N-CA-C	5.99	120.61	111.15
1	cl	195	ASN	CA-CB-CG	5.99	118.59	112.60
1	cn	161	PHE	N-CA-C	5.99	117.81	111.28
1	co	84	HIS	CA-C-N	5.99	125.93	119.76
1	co	84	HIS	C-N-CA	5.99	125.93	119.76
1	cE	88	ALA	CA-C-O	-5.99	114.28	121.89
1	cH	120	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	cZ	97	ARG	NH1-CZ-NH2	-5.99	111.51	119.30
1	d1	131	LYS	N-CA-CB	-5.99	101.32	110.12
1	d6	87	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	d9	153	ILE	CA-C-N	5.99	130.34	120.94
1	d9	153	ILE	C-N-CA	5.99	130.34	120.94
1	dg	26	VAL	O-C-N	5.99	127.78	121.91
1	dj	139	ASN	N-CA-C	5.99	118.30	111.11
1	dq	53	ASN	N-CA-C	5.99	117.48	111.07
1	dt	67	GLN	OE1-CD-NE2	5.99	128.59	122.60
1	1m	20	LEU	CA-C-N	5.99	128.55	120.65
1	1m	20	LEU	C-N-CA	5.99	128.55	120.65
1	dW	78	ALA	CA-C-O	-5.99	114.07	120.42
1	e8	24	VAL	N-CA-CB	5.99	117.56	110.55
1	eb	164	TYR	N-CA-C	5.99	117.81	111.28
1	1p	111	LEU	N-CA-C	5.99	117.89	111.36
1	ej	10	MET	N-CA-C	5.99	119.16	110.42
1	ey	119	THR	N-CA-CB	5.99	119.35	110.49
1	1s	63	GLN	CA-C-O	-5.99	114.20	120.55
1	eM	87	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	eP	184	TRP	CA-C-N	5.99	128.58	120.38
1	eP	184	TRP	C-N-CA	5.99	128.58	120.38
1	eR	44	SER	O-C-N	-5.99	114.78	122.21
1	eU	10	MET	N-CA-C	5.99	118.91	110.23
1	eV	153	ILE	N-CA-C	-5.99	105.85	113.22
1	f3	81	ASP	N-CA-C	5.99	117.48	111.07
1	f5	110	THR	CA-C-O	-5.99	114.28	121.89
1	1v	21	ASN	CA-C-O	5.99	127.11	120.82
1	fd	163	ASP	N-CA-C	5.99	119.06	111.69
1	fm	92	GLU	CA-C-N	5.99	126.34	119.93
1	fm	92	GLU	C-N-CA	5.99	126.34	119.93
1	fm	159	GLU	CA-C-O	-5.99	113.94	120.17
1	fw	158	LYS	O-C-N	-5.99	114.06	122.26
1	fA	61	GLY	N-CA-C	5.99	120.28	112.25
1	fB	88	ALA	CA-C-O	-5.99	111.95	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	39	MET	N-CA-C	5.99	117.81	111.28
1	g3	163	ASP	CA-C-O	5.99	127.11	120.82
1	w	53	ASN	CA-CB-CG	-5.99	106.61	112.60
1	P	68	MET	N-CA-C	5.99	117.89	111.36
1	gg	226	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	gw	131	LYS	CA-C-O	-5.99	114.16	120.63
1	gA	85	PRO	O-C-N	-5.99	115.92	123.10
1	gJ	180	GLU	N-CA-CB	-5.99	101.32	110.12
1	hg	176	GLN	N-CA-C	5.99	120.20	113.02
1	hV	20	LEU	CA-C-N	5.99	128.30	120.28
1	hV	20	LEU	C-N-CA	5.99	128.30	120.28
1	hV	47	ALA	N-CA-C	5.99	119.66	110.20
1	ig	210	THR	CA-CB-OG1	5.99	118.58	109.60
1	io	8	GLY	O-C-N	-5.99	117.66	122.81
1	io	38	PRO	N-CD-CG	5.99	112.18	103.20
1	iy	11	VAL	N-CA-CB	-5.99	104.83	111.66
1	j4	20	LEU	CA-C-O	-5.99	114.53	120.82
1	jx	5	ASN	CA-CB-CG	5.99	118.59	112.60
1	jy	218	CYS	O-C-N	-5.99	115.67	122.86
1	jI	82	ARG	O-C-N	-5.99	115.33	122.15
1	kj	151	LEU	N-CA-C	5.99	119.69	112.38
1	kI	76	GLU	N-CA-C	5.99	117.89	111.36
1	lh	73	ILE	CA-CB-CG1	5.99	120.58	110.40
1	lw	62	HIS	CB-CG-CD2	-5.99	123.42	131.20
1	2f	193	ASN	OD1-CG-ND2	-5.99	116.61	122.60
1	2E	139	ASN	CA-C-N	5.99	128.22	120.44
1	2E	139	ASN	C-N-CA	5.99	128.22	120.44
1	3c	225	GLY	CA-C-N	5.99	129.37	120.87
1	3c	225	GLY	C-N-CA	5.99	129.37	120.87
1	4a	221	VAL	CA-CB-CG2	5.99	120.58	110.40
1	4g	229	ARG	NH1-CZ-NH2	-5.99	111.52	119.30
1	4R	87	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	4Z	62	HIS	ND1-CG-CD2	5.99	112.09	106.10
1	4Z	216	THR	O-C-N	-5.99	114.99	122.35
1	57	128	GLU	CA-C-N	5.99	128.66	120.46
1	57	128	GLU	C-N-CA	5.99	128.66	120.46
1	5L	112	GLN	CB-CG-CD	5.99	122.78	112.60
1	6g	159	GLU	CA-C-N	5.99	127.32	119.84
1	6g	159	GLU	C-N-CA	5.99	127.32	119.84
1	6h	192	GLN	N-CA-C	5.99	117.81	111.28
1	77	80	TRP	CB-CG-CD2	-5.99	118.42	126.80
1	7p	121	ASN	CB-CA-C	-5.99	101.34	109.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	80	TRP	CA-C-N	5.99	128.22	120.44
1	7A	80	TRP	C-N-CA	5.99	128.22	120.44
1	7F	155	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	7F	171	THR	N-CA-C	5.99	118.59	111.71
1	7O	40	PHE	O-C-N	-5.99	115.77	122.12
1	7R	183	ASN	N-CA-C	5.99	117.81	111.28
1	7V	77	ALA	CA-C-N	5.99	128.30	120.28
1	7V	77	ALA	C-N-CA	5.99	128.30	120.28
1	89	87	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	8t	58	THR	OG1-CB-CG2	-5.99	97.33	109.30
1	8K	138	LEU	CA-C-O	-5.99	114.53	120.82
1	9j	54	THR	CB-CA-C	-5.99	100.50	110.68
1	9r	101	GLY	N-CA-C	5.99	119.91	112.73
1	Z	93	PRO	N-CA-C	5.99	120.63	111.11
1	ab	97	ARG	CB-CA-C	5.99	123.24	110.07
1	ae	165	VAL	CB-CA-C	5.99	120.22	112.14
1	ay	130	TYR	O-C-N	-5.99	114.91	122.27
1	bg	80	TRP	CE3-CZ3-CH2	5.99	128.88	121.10
1	by	138	LEU	CA-C-O	5.99	126.86	119.79
1	1f	229	ARG	CB-CA-C	-5.99	103.14	112.12
1	cE	96	MET	O-C-N	-5.99	116.03	122.85
1	d7	18	ARG	CA-C-N	5.99	128.79	120.29
1	d7	18	ARG	C-N-CA	5.99	128.79	120.29
1	1q	161	PHE	CA-CB-CG	-5.99	107.81	113.80
1	er	117	TRP	CA-C-N	5.99	128.30	120.28
1	er	117	TRP	C-N-CA	5.99	128.30	120.28
1	eu	15	ILE	CA-C-O	5.99	127.94	121.36
1	1r	37	ILE	O-C-N	-5.99	116.59	120.42
1	eC	108	THR	O-C-N	-5.99	115.16	122.34
1	fg	178	SER	N-CA-CB	5.99	118.58	110.38
1	1y	95	GLN	O-C-N	-5.99	114.78	122.20
1	g5	97	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	g6	82	ARG	N-CA-C	-5.99	104.69	112.23
1	g8	56	LEU	O-C-N	-5.99	115.91	122.07
1	gg	62	HIS	CB-CG-ND1	-5.99	113.72	122.70
1	gg	143	ARG	N-CA-C	5.99	117.47	111.07
1	gk	116	GLY	O-C-N	-5.99	116.38	122.19
1	gp	212	GLU	N-CA-C	5.99	121.19	111.37
1	gE	135	ILE	CB-CA-C	5.99	120.22	112.14
1	gE	149	SER	CA-C-N	5.99	128.97	120.53
1	gE	149	SER	C-N-CA	5.99	128.97	120.53
1	gI	11	VAL	CG1-CB-CG2	-5.99	97.63	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gJ	44	SER	O-C-N	-5.99	114.95	122.19
1	h2	4	GLN	CA-C-O	5.99	124.09	119.18
1	hi	52	LEU	N-CA-C	5.99	117.80	111.28
1	ht	198	CYS	CA-C-N	5.99	128.22	120.44
1	ht	198	CYS	C-N-CA	5.99	128.22	120.44
1	hC	119	THR	CA-CB-OG1	5.99	118.58	109.60
1	hC	136	LEU	CA-C-N	5.99	126.58	119.94
1	hC	136	LEU	C-N-CA	5.99	126.58	119.94
1	hD	190	LEU	CA-C-O	5.99	126.89	120.55
1	hT	115	ILE	CA-C-N	5.99	126.62	119.98
1	hT	115	ILE	C-N-CA	5.99	126.62	119.98
1	hZ	129	ILE	O-C-N	5.99	127.78	121.91
1	i7	26	VAL	O-C-N	-5.99	116.06	121.87
1	1O	20	LEU	CA-C-N	5.99	128.58	120.38
1	1O	20	LEU	C-N-CA	5.99	128.58	120.38
1	io	143	ARG	CA-C-O	5.99	126.89	120.55
1	ip	95	GLN	CB-CG-CD	5.99	122.78	112.60
1	ir	84	HIS	CA-C-N	5.99	126.00	119.90
1	ir	84	HIS	C-N-CA	5.99	126.00	119.90
1	iD	47	ALA	O-C-N	-5.99	115.59	122.89
1	iQ	72	THR	O-C-N	-5.99	115.78	122.12
1	jq	198	CYS	CA-C-N	5.99	128.22	120.44
1	jq	198	CYS	C-N-CA	5.99	128.22	120.44
1	ju	80	TRP	N-CA-C	5.99	117.80	111.28
1	jO	63	GLN	N-CA-C	5.99	118.76	111.82
1	jP	40	PHE	CA-CB-CG	-5.99	107.81	113.80
1	jU	172	LEU	N-CA-CB	-5.99	101.32	110.12
1	jY	215	MET	CG-SD-CE	-5.99	87.73	100.90
1	k8	127	GLY	CA-C-N	5.99	128.79	120.29
1	k8	127	GLY	C-N-CA	5.99	128.79	120.29
1	kf	15	ILE	N-CA-C	5.99	117.45	109.37
1	21	229	ARG	N-CA-C	5.99	118.02	110.24
1	kr	167	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	kF	79	GLU	N-CA-C	5.99	117.47	111.07
1	kR	29	GLU	CB-CA-C	-5.99	101.48	110.88
1	l7	46	GLY	CA-C-N	5.99	129.21	120.71
1	l7	46	GLY	C-N-CA	5.99	129.21	120.71
1	lj	94	GLY	N-CA-C	5.99	119.31	110.63
1	lx	226	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	2i	92	GLU	CA-C-O	-5.99	111.96	120.16
1	2p	49	PRO	CA-C-N	5.99	128.30	120.28
1	2p	49	PRO	C-N-CA	5.99	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	36	89	GLY	N-CA-C	5.99	119.18	112.00
1	39	40	PHE	CA-CB-CG	5.99	119.78	113.80
1	3k	62	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	3C	40	PHE	CA-CB-CG	-5.99	107.81	113.80
1	3G	47	ALA	O-C-N	-5.99	115.57	122.93
1	3O	125	PRO	CA-C-O	-5.99	114.67	121.97
1	3O	178	SER	CA-C-O	-5.99	115.21	121.55
1	45	12	HIS	CE1-NE2-CD2	-5.99	103.02	109.00
1	4a	13	GLN	OE1-CD-NE2	-5.99	116.61	122.60
1	4e	169	TYR	CB-CG-CD2	5.99	129.78	120.80
1	4f	97	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	4i	180	GLU	CA-C-N	5.99	128.10	120.56
1	4i	180	GLU	C-N-CA	5.99	128.10	120.56
1	4y	13	GLN	CA-C-N	5.99	129.34	120.90
1	4y	13	GLN	C-N-CA	5.99	129.34	120.90
1	4J	197	ASP	N-CA-CB	-5.99	100.64	110.40
1	4N	52	LEU	N-CA-C	5.99	117.47	111.07
1	52	30	LYS	N-CA-CB	-5.99	103.08	110.98
1	5o	202	LEU	N-CA-C	5.99	117.80	111.28
1	5r	3	VAL	O-C-N	-5.99	116.42	123.00
1	5t	224	PRO	N-CA-CB	5.99	108.64	103.31
1	5u	172	LEU	CA-C-O	5.99	126.86	120.70
1	5B	179	GLN	N-CA-CB	5.99	118.86	109.94
1	5E	21	ASN	OD1-CG-ND2	-5.99	116.61	122.60
1	5E	215	MET	CG-SD-CE	-5.99	87.73	100.90
1	5K	3	VAL	O-C-N	-5.99	116.72	123.18
1	61	223	GLY	CA-C-N	5.99	127.32	119.84
1	61	223	GLY	C-N-CA	5.99	127.32	119.84
1	68	4	GLN	O-C-N	-5.99	115.45	122.81
1	6e	18	ARG	NE-CZ-NH2	-5.99	113.81	119.20
1	6r	203	LYS	CA-C-N	5.99	128.79	120.29
1	6r	203	LYS	C-N-CA	5.99	128.79	120.29
1	6y	173	ARG	NE-CZ-NH1	5.99	127.49	121.50
1	6z	29	GLU	N-CA-C	5.99	117.81	111.28
1	79	212	GLU	CA-C-O	5.99	127.10	120.82
1	7d	12	HIS	CG-CD2-NE2	5.99	113.19	107.20
1	7e	20	LEU	CA-C-N	5.99	128.79	120.29
1	7e	20	LEU	C-N-CA	5.99	128.79	120.29
1	7m	219	GLN	N-CA-C	5.99	117.77	109.15
1	8c	222	GLY	CA-C-O	-5.99	117.06	122.57
1	8y	24	VAL	O-C-N	-5.99	116.06	121.87
1	8D	152	ASP	CA-C-N	5.99	128.92	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8D	152	ASP	C-N-CA	5.99	128.92	120.42
1	8Q	114	GLN	CA-C-N	5.99	128.10	120.56
1	8Q	114	GLN	C-N-CA	5.99	128.10	120.56
1	94	4	GLN	N-CA-C	5.99	123.55	110.80
1	9g	57	ASN	CA-C-O	5.99	126.85	119.97
1	9N	160	PRO	CA-C-N	5.99	128.30	120.28
1	9N	160	PRO	C-N-CA	5.99	128.30	120.28
1	a2	83	LEU	CB-CA-C	-5.99	98.04	109.95
1	aa	170	LYS	O-C-N	-5.99	115.87	122.09
1	ah	215	MET	CA-C-N	5.99	128.30	120.28
1	ah	215	MET	C-N-CA	5.99	128.30	120.28
1	aj	145	TYR	N-CA-C	5.99	120.20	113.02
1	12	122	PRO	N-CA-CB	5.99	109.18	102.60
1	aw	220	GLY	CA-C-N	5.99	129.70	122.16
1	aw	220	GLY	C-N-CA	5.99	129.70	122.16
1	aB	52	LEU	CA-C-O	5.99	126.77	120.42
1	aQ	12	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	aQ	133	TRP	CB-CG-CD2	-5.99	118.42	126.80
1	16	62	HIS	CA-C-N	5.99	128.30	120.28
1	16	62	HIS	C-N-CA	5.99	128.30	120.28
1	b8	224	PRO	CA-C-N	5.99	130.10	121.54
1	b8	224	PRO	C-N-CA	5.99	130.10	121.54
1	bK	167	ARG	CB-CG-CD	5.99	125.07	111.30
1	cq	209	ALA	N-CA-CB	5.99	118.84	110.04
1	cu	82	ARG	CA-C-N	5.99	128.22	120.44
1	cu	82	ARG	C-N-CA	5.99	128.22	120.44
1	cH	45	GLU	N-CA-CB	5.99	119.23	109.95
1	d0	226	HIS	CA-C-N	5.99	129.21	120.71
1	d0	226	HIS	C-N-CA	5.99	129.21	120.71
1	d4	151	LEU	N-CA-C	-5.99	106.14	113.50
1	d7	74	ASN	N-CA-C	5.99	117.47	111.07
1	di	68	MET	CA-C-N	5.99	128.22	120.44
1	di	68	MET	C-N-CA	5.99	128.22	120.44
1	du	119	THR	CA-C-O	5.99	126.30	119.18
1	dR	159	GLU	N-CA-C	5.99	117.43	109.83
1	dW	122	PRO	CA-C-N	5.99	125.75	119.76
1	dW	122	PRO	C-N-CA	5.99	125.75	119.76
1	1o	45	GLU	N-CA-CB	5.99	120.61	110.49
1	e5	5	ASN	N-CA-C	-5.99	99.64	109.40
1	eb	54	THR	O-C-N	-5.99	115.78	122.12
1	eb	184	TRP	CA-CB-CG	5.99	124.97	113.60
1	1p	52	LEU	CA-C-N	5.99	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1p	52	LEU	C-N-CA	5.99	128.30	120.28
1	eg	123	PRO	CA-C-O	-5.99	114.62	121.56
1	ek	219	GLN	CB-CA-C	5.99	119.24	109.90
1	en	55	MET	N-CA-C	5.99	118.76	111.82
1	et	96	MET	CA-C-N	5.99	130.34	120.94
1	et	96	MET	C-N-CA	5.99	130.34	120.94
1	eA	97	ARG	NE-CZ-NH1	-5.99	115.52	121.50
1	eA	115	ILE	O-C-N	-5.99	116.06	121.87
1	eD	61	GLY	N-CA-C	5.99	122.19	112.61
1	eW	82	ARG	CA-C-N	5.99	128.79	120.29
1	eW	82	ARG	C-N-CA	5.99	128.79	120.29
1	eY	190	LEU	N-CA-C	5.99	121.25	111.37
1	1u	12	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	f6	120	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	fa	32	PHE	CA-CB-CG	-5.99	107.81	113.80
1	fk	172	LEU	N-CA-C	5.99	117.81	111.28
1	fl	150	ILE	O-C-N	-5.99	114.17	122.31
1	fm	15	ILE	O-C-N	-5.99	116.98	122.79
1	fr	226	HIS	CE1-NE2-CD2	-5.99	103.01	109.00
1	1x	165	VAL	N-CA-C	5.99	116.17	110.42
1	fy	33	SER	CA-C-O	-5.99	114.57	120.26
1	fO	227	LYS	O-C-N	-5.99	114.63	122.59
1	fQ	151	LEU	N-CA-CB	-5.99	101.32	110.12
1	d	12	HIS	ND1-CE1-NE2	5.99	114.39	108.40
1	h	148	THR	CA-CB-OG1	5.99	118.58	109.60
1	2	115	ILE	O-C-N	-5.99	116.04	121.91
1	v	98	GLU	N-CA-C	5.99	117.61	110.07
1	G	15	ILE	CA-C-O	5.99	127.57	121.58
1	J	62	HIS	CA-C-N	5.99	128.30	120.28
1	J	62	HIS	C-N-CA	5.99	128.30	120.28
1	P	88	ALA	N-CA-C	5.99	119.28	109.76
1	gj	224	PRO	N-CA-C	-5.98	105.86	114.18
1	iz	184	TRP	CB-CG-CD1	-5.98	117.92	126.90
1	iB	12	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	iI	139	ASN	CA-C-N	5.98	128.22	120.44
1	iI	139	ASN	C-N-CA	5.98	128.22	120.44
1	iU	172	LEU	CA-C-O	5.98	126.86	120.70
1	ks	72	THR	CA-C-O	5.98	126.85	119.79
1	li	93	PRO	N-CD-CG	5.98	112.17	103.20
1	lx	207	PRO	CA-C-N	5.98	130.86	122.36
1	lx	207	PRO	C-N-CA	5.98	130.86	122.36
1	2R	202	LEU	N-CA-CB	5.98	120.15	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	124	ILE	O-C-N	-5.98	115.41	120.92
1	3z	105	ALA	CA-C-O	5.98	126.73	119.49
1	3Q	166	ASP	CA-C-O	5.98	127.10	120.82
1	4a	117	TRP	N-CA-CB	5.98	118.92	110.12
1	4w	19	THR	CA-C-O	5.98	127.10	120.82
1	4T	163	ASP	CB-CA-C	5.98	120.28	110.88
1	5e	162	ARG	CA-C-N	5.98	129.11	120.79
1	5e	162	ARG	C-N-CA	5.98	129.11	120.79
1	5j	217	ALA	N-CA-C	-5.98	100.40	109.85
1	5H	12	HIS	O-C-N	-5.98	116.40	123.22
1	5I	203	LYS	O-C-N	-5.98	115.78	122.12
1	5R	59	VAL	CB-CA-C	5.98	119.70	110.96
1	61	55	MET	CA-C-N	5.98	128.22	120.44
1	61	55	MET	C-N-CA	5.98	128.22	120.44
1	66	58	THR	OG1-CB-CG2	-5.98	97.33	109.30
1	76	200	THR	CA-C-O	5.98	127.10	120.82
1	78	208	ALA	N-CA-C	-5.98	105.71	114.39
1	7a	140	LYS	CA-C-O	5.98	126.89	120.55
1	8t	136	LEU	O-C-N	-5.98	115.78	122.12
1	8E	57	ASN	O-C-N	-5.98	115.78	122.12
1	8G	98	GLU	N-CA-C	5.98	117.19	109.65
1	8S	211	LEU	N-CA-C	5.98	118.59	111.71
1	8X	79	GLU	CA-C-N	5.98	128.30	120.28
1	8X	79	GLU	C-N-CA	5.98	128.30	120.28
1	9F	56	LEU	N-CA-C	5.98	117.80	111.28
1	9K	204	ALA	N-CA-C	5.98	118.76	111.82
1	at	155	GLN	CB-CA-C	5.98	120.33	109.62
1	aT	31	ALA	N-CA-C	5.98	117.80	111.28
1	b1	159	GLU	CB-CA-C	5.98	119.69	109.82
1	bf	48	THR	CA-C-O	-5.98	114.48	120.64
1	bE	48	THR	CA-C-O	-5.98	113.93	120.87
1	bY	26	VAL	CA-C-O	-5.98	114.83	121.17
1	ci	185	MET	CG-SD-CE	-5.98	87.73	100.90
1	cz	59	VAL	CA-CB-CG1	5.98	120.57	110.40
1	d4	61	GLY	CA-C-O	-5.98	115.15	122.75
1	d9	166	ASP	CA-C-N	5.98	128.79	120.29
1	d9	166	ASP	C-N-CA	5.98	128.79	120.29
1	dD	189	LEU	CA-C-O	-5.98	114.50	120.90
1	dX	12	HIS	CA-CB-CG	5.98	119.78	113.80
1	eg	181	VAL	N-CA-C	5.98	116.72	110.62
1	eU	97	ARG	O-C-N	-5.98	115.29	122.65
1	g9	97	ARG	NH1-CZ-NH2	-5.98	111.52	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gh	219	GLN	N-CA-C	5.98	117.76	109.15
1	gI	181	VAL	CA-C-O	5.98	127.17	120.95
1	gK	154	ARG	NE-CZ-NH2	-5.98	113.81	119.20
1	gL	63	GLN	CB-CG-CD	5.98	122.77	112.60
1	gO	121	ASN	CB-CA-C	5.98	117.03	110.15
1	h0	14	ALA	CA-C-O	-5.98	114.61	121.07
1	h3	51	ASP	CA-CB-CG	5.98	118.58	112.60
1	1H	37	ILE	O-C-N	-5.98	116.59	120.42
1	1H	216	THR	O-C-N	-5.98	115.13	122.25
1	ha	150	ILE	O-C-N	-5.98	113.86	122.12
1	hf	164	TYR	CA-CB-CG	-5.98	103.13	113.90
1	hf	188	THR	CA-CB-OG1	5.98	118.57	109.60
1	hh	78	ALA	O-C-N	5.98	128.97	122.15
1	hz	37	ILE	CB-CA-C	-5.98	108.01	114.35
1	hI	183	ASN	CA-C-N	5.98	128.30	120.28
1	hI	183	ASN	C-N-CA	5.98	128.30	120.28
1	hL	43	LEU	N-CA-C	-5.98	105.56	112.92
1	hM	51	ASP	O-C-N	-5.98	115.33	122.15
1	it	195	ASN	CB-CA-C	5.98	119.27	109.46
1	iy	127	GLY	O-C-N	-5.98	114.92	122.70
1	iK	173	ARG	N-CA-C	5.98	119.41	111.75
1	iO	48	THR	N-CA-CB	5.98	118.04	109.78
1	iT	166	ASP	CA-CB-CG	5.98	118.58	112.60
1	iW	143	ARG	N-CA-C	5.98	117.80	111.28
1	j3	222	GLY	N-CA-C	5.98	126.01	112.01
1	jf	12	HIS	CG-CD2-NE2	5.98	113.18	107.20
1	jk	201	ILE	N-CA-C	5.98	116.16	110.42
1	1V	22	ALA	N-CA-CB	5.98	119.55	110.28
1	jm	64	ALA	CA-C-O	-5.98	114.54	120.82
1	jn	104	ILE	CA-C-O	-5.98	114.83	121.17
1	jn	147	PRO	N-CA-CB	-5.98	96.97	103.25
1	jo	82	ARG	CA-CB-CG	5.98	126.06	114.10
1	jw	62	HIS	ND1-CG-CD2	5.98	112.08	106.10
1	jA	82	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	jB	155	GLN	CA-C-O	-5.98	113.55	120.49
1	k7	184	TRP	N-CA-C	5.98	117.47	111.07
1	kc	186	THR	N-CA-CB	5.98	118.91	110.12
1	kj	167	ARG	CA-C-N	5.98	128.58	120.44
1	kj	167	ARG	C-N-CA	5.98	128.58	120.44
1	kk	54	THR	CA-C-N	5.98	128.62	120.54
1	kk	54	THR	C-N-CA	5.98	128.62	120.54
1	kV	202	LEU	N-CA-C	5.98	118.59	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l7	161	PHE	CA-CB-CG	5.98	119.78	113.80
1	lx	53	ASN	CA-CB-CG	-5.98	106.62	112.60
1	lD	99	PRO	CA-C-O	-5.98	114.99	121.27
1	lG	103	ASP	O-C-N	-5.98	115.33	122.15
1	lG	159	GLU	CA-C-N	5.98	126.00	119.90
1	lG	159	GLU	C-N-CA	5.98	126.00	119.90
1	lK	59	VAL	N-CA-C	5.98	117.45	109.37
1	lK	72	THR	N-CA-C	5.98	117.80	111.28
1	2F	97	ARG	CA-C-O	-5.98	114.93	121.87
1	2H	175	GLU	CA-C-N	5.98	131.47	122.68
1	2H	175	GLU	C-N-CA	5.98	131.47	122.68
1	2R	169	TYR	CB-CG-CD1	-5.98	111.83	120.80
1	2S	177	ALA	N-CA-C	5.98	118.91	110.23
1	33	17	PRO	CA-C-N	5.98	128.22	120.44
1	33	17	PRO	C-N-CA	5.98	128.22	120.44
1	38	53	ASN	CA-C-N	5.98	128.62	120.54
1	38	53	ASN	C-N-CA	5.98	128.62	120.54
1	39	183	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	3s	33	SER	CA-C-N	5.98	125.60	119.56
1	3s	33	SER	C-N-CA	5.98	125.60	119.56
1	3J	69	LEU	CA-C-N	5.98	128.22	120.44
1	3J	69	LEU	C-N-CA	5.98	128.22	120.44
1	3S	79	GLU	CA-C-N	5.98	128.78	120.29
1	3S	79	GLU	C-N-CA	5.98	128.78	120.29
1	48	107	THR	N-CA-C	5.98	117.80	111.28
1	49	212	GLU	CA-C-O	5.98	126.89	120.55
1	4f	183	ASN	CA-CB-CG	-5.98	106.62	112.60
1	4j	122	PRO	CA-C-N	5.98	127.32	119.84
1	4j	122	PRO	C-N-CA	5.98	127.32	119.84
1	4m	188	THR	CA-C-N	5.98	128.30	120.28
1	4m	188	THR	C-N-CA	5.98	128.30	120.28
1	4v	230	VAL	CA-C-O	5.98	124.64	118.96
1	4L	20	LEU	N-CA-CB	-5.98	101.31	110.16
1	4M	154	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	4Q	89	GLY	CA-C-N	5.98	126.89	120.13
1	4Q	89	GLY	C-N-CA	5.98	126.89	120.13
1	5o	23	TRP	N-CA-C	5.98	117.80	111.28
1	5I	102	SER	CA-C-N	5.98	128.79	120.29
1	5I	102	SER	C-N-CA	5.98	128.79	120.29
1	5N	52	LEU	CA-C-N	5.98	128.62	120.54
1	5N	52	LEU	C-N-CA	5.98	128.62	120.54
1	69	73	ILE	CA-C-N	5.98	128.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	69	73	ILE	C-N-CA	5.98	128.30	120.28
1	6f	36	VAL	N-CA-CB	5.98	117.95	110.47
1	6h	5	ASN	CB-CG-ND2	5.98	125.37	116.40
1	6q	226	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	6D	57	ASN	N-CA-C	5.98	118.76	111.82
1	6U	115	ILE	CA-C-N	5.98	126.75	119.99
1	6U	115	ILE	C-N-CA	5.98	126.75	119.99
1	78	18	ARG	N-CA-C	5.98	118.57	111.33
1	7B	65	ALA	CA-C-N	5.98	128.30	120.28
1	7B	65	ALA	C-N-CA	5.98	128.30	120.28
1	7E	18	ARG	N-CA-CB	5.98	118.68	110.01
1	7W	90	PRO	O-C-N	-5.98	114.56	122.64
1	8A	16	SER	CA-C-N	5.98	125.53	119.19
1	8A	16	SER	C-N-CA	5.98	125.53	119.19
1	8F	175	GLU	O-C-N	-5.98	116.36	123.06
1	8M	54	THR	CA-C-N	5.98	128.58	120.44
1	8M	54	THR	C-N-CA	5.98	128.58	120.44
1	8W	23	TRP	CA-C-N	5.98	128.10	120.56
1	8W	23	TRP	C-N-CA	5.98	128.10	120.56
1	92	201	ILE	N-CA-C	5.98	116.72	110.62
1	9B	167	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	9C	139	ASN	N-CA-C	5.98	117.88	111.36
1	9V	144	MET	O-C-N	5.98	128.55	122.09
1	ah	142	VAL	N-CA-C	5.98	116.72	110.62
1	ak	165	VAL	O-C-N	5.98	127.67	121.87
1	an	70	LYS	CA-C-N	5.98	128.62	120.54
1	an	70	LYS	C-N-CA	5.98	128.62	120.54
1	aG	157	PRO	N-CA-CB	5.98	109.02	103.46
1	aW	97	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	aX	111	LEU	N-CA-C	5.98	117.47	111.07
1	15	150	ILE	O-C-N	-5.98	116.07	121.87
1	b9	39	MET	CG-SD-CE	-5.98	87.74	100.90
1	bb	163	ASP	CA-C-N	5.98	128.30	120.28
1	bb	163	ASP	C-N-CA	5.98	128.30	120.28
1	bB	121	ASN	O-C-N	-5.98	114.47	121.23
1	bF	97	ARG	NH1-CZ-NH2	-5.98	111.52	119.30
1	bF	159	GLU	CA-C-O	-5.98	114.13	119.75
1	cx	28	GLU	O-C-N	-5.98	115.78	122.12
1	cx	56	LEU	N-CA-C	5.98	118.57	111.33
1	1f	166	ASP	CA-CB-CG	5.98	118.58	112.60
1	1h	60	GLY	CA-C-N	-5.98	113.70	121.96
1	1h	60	GLY	C-N-CA	-5.98	113.70	121.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	28	GLU	CA-C-N	5.98	128.58	120.44
1	dc	28	GLU	C-N-CA	5.98	128.58	120.44
1	dl	56	LEU	CB-CA-C	-5.98	101.49	110.88
1	dX	166	ASP	CA-C-O	5.98	127.10	120.82
1	dY	115	ILE	CA-C-N	5.98	126.62	119.98
1	dY	115	ILE	C-N-CA	5.98	126.62	119.98
1	e0	216	THR	O-C-N	-5.98	113.92	122.41
1	ea	105	ALA	CA-C-N	5.98	130.60	120.91
1	ea	105	ALA	C-N-CA	5.98	130.60	120.91
1	eg	18	ARG	CA-C-N	5.98	128.22	120.44
1	eg	18	ARG	C-N-CA	5.98	128.22	120.44
1	ej	114	GLN	OE1-CD-NE2	-5.98	116.62	122.60
1	el	87	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	el	89	GLY	O-C-N	5.98	127.75	121.77
1	el	167	ARG	NE-CZ-NH2	-5.98	113.81	119.20
1	1q	64	ALA	N-CA-C	5.98	117.80	111.28
1	eu	158	LYS	CA-C-N	5.98	128.79	120.65
1	eu	158	LYS	C-N-CA	5.98	128.79	120.65
1	ex	224	PRO	CA-C-N	5.98	131.78	121.07
1	ex	224	PRO	C-N-CA	5.98	131.78	121.07
1	1t	174	ALA	CA-C-N	5.98	129.34	120.90
1	1t	174	ALA	C-N-CA	5.98	129.34	120.90
1	fc	114	GLN	CA-C-N	5.98	128.66	120.46
1	fc	114	GLN	C-N-CA	5.98	128.66	120.46
1	fe	155	GLN	O-C-N	5.98	129.98	123.10
1	fh	224	PRO	CA-C-N	5.98	133.13	121.41
1	fh	224	PRO	C-N-CA	5.98	133.13	121.41
1	fm	173	ARG	CA-C-N	5.98	129.40	120.31
1	fm	173	ARG	C-N-CA	5.98	129.40	120.31
1	fq	54	THR	N-CA-CB	5.98	118.69	110.01
1	fM	110	THR	N-CA-CB	5.98	118.78	110.17
1	fV	54	THR	CA-C-N	5.98	128.22	120.44
1	fV	54	THR	C-N-CA	5.98	128.22	120.44
1	g2	167	ARG	O-C-N	-5.98	114.91	122.27
1	g4	79	GLU	N-CA-C	-5.98	104.88	111.82
1	e	1	PRO	CB-CA-C	5.98	121.47	110.10
1	e	133	TRP	N-CA-C	-5.98	104.33	111.69
1	v	18	ARG	O-C-N	-5.98	115.78	122.12
1	v	136	LEU	N-CA-C	5.98	117.80	111.28
1	B	128	GLU	CB-CG-CD	5.98	122.77	112.60
1	4	15	ILE	N-CA-C	5.98	117.14	109.30
1	g9	64	ALA	N-CA-C	5.98	117.47	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gd	87	HIS	ND1-CE1-NE2	5.98	114.38	108.40
1	gs	84	HIS	CA-C-O	-5.98	113.36	121.02
1	gF	166	ASP	CA-C-O	5.98	126.89	120.55
1	gI	67	GLN	CA-C-N	5.98	128.29	120.28
1	gI	67	GLN	C-N-CA	5.98	128.29	120.28
1	he	3	VAL	N-CA-C	-5.98	100.07	108.80
1	ht	196	PRO	N-CD-CG	5.98	112.17	103.20
1	hI	15	ILE	CA-CB-CG2	5.98	120.67	110.50
1	hN	133	TRP	CB-CG-CD2	-5.98	118.43	126.80
1	hY	88	ALA	N-CA-C	5.98	118.93	109.96
1	if	124	ILE	O-C-N	-5.98	115.56	121.12
1	1P	83	LEU	N-CA-CB	-5.98	101.40	110.07
1	iy	66	MET	CA-C-O	5.98	126.89	120.55
1	iR	5	ASN	CA-C-O	-5.98	114.32	121.56
1	iR	195	ASN	CB-CA-C	5.98	121.95	110.17
1	iW	19	THR	O-C-N	-5.98	115.91	122.07
1	j1	142	VAL	CA-C-N	5.98	128.78	120.29
1	j1	142	VAL	C-N-CA	5.98	128.78	120.29
1	je	19	THR	CA-C-N	5.98	128.29	120.28
1	je	19	THR	C-N-CA	5.98	128.29	120.28
1	jn	185	MET	N-CA-C	5.98	119.68	112.38
1	jp	62	HIS	N-CA-C	5.98	119.49	111.24
1	ju	226	HIS	CA-CB-CG	-5.98	107.82	113.80
1	1W	37	ILE	O-C-N	-5.98	115.82	120.07
1	jJ	186	THR	OG1-CB-CG2	-5.98	97.34	109.30
1	jS	18	ARG	N-CA-CB	-5.98	101.33	110.12
1	k2	193	ASN	CA-CB-CG	5.98	118.58	112.60
1	kp	16	SER	CA-C-N	5.98	127.32	119.84
1	kp	16	SER	C-N-CA	5.98	127.32	119.84
1	kz	12	HIS	ND1-CE1-NE2	5.98	114.38	108.40
1	kU	185	MET	N-CA-C	5.98	118.29	111.11
1	lf	100	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	lq	78	ALA	CA-C-N	5.98	128.22	120.44
1	lq	78	ALA	C-N-CA	5.98	128.22	120.44
1	29	221	VAL	O-C-N	-5.98	116.59	122.93
1	lI	59	VAL	CB-CA-C	-5.98	104.08	111.08
1	2c	125	PRO	CA-C-N	5.98	128.65	120.46
1	2c	125	PRO	C-N-CA	5.98	128.65	120.46
1	2h	61	GLY	O-C-N	-5.98	117.67	122.81
1	2m	88	ALA	CA-C-N	5.98	131.26	121.87
1	2m	88	ALA	C-N-CA	5.98	131.26	121.87
1	2t	205	LEU	CD1-CG-CD2	-5.98	97.64	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2v	118	MET	CA-C-O	-5.98	114.08	120.42
1	2H	120	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	2K	104	ILE	CA-C-O	5.98	127.27	119.85
1	3d	134	ILE	N-CA-C	5.98	116.64	110.36
1	3k	20	LEU	CA-C-N	5.98	128.29	120.28
1	3k	20	LEU	C-N-CA	5.98	128.29	120.28
1	3r	41	SER	CA-C-N	5.98	128.29	120.28
1	3r	41	SER	C-N-CA	5.98	128.29	120.28
1	3J	188	THR	CA-C-O	-5.98	111.96	120.51
1	41	19	THR	CA-C-O	-5.98	114.08	120.42
1	42	153	ILE	O-C-N	-5.98	115.78	122.66
1	44	72	THR	N-CA-C	5.98	118.29	111.11
1	4i	145	TYR	CB-CG-CD1	5.98	129.77	120.80
1	4j	22	ALA	N-CA-C	5.98	117.80	111.28
1	54	219	GLN	N-CA-C	5.98	118.38	109.59
1	5c	23	TRP	CA-C-O	5.98	127.10	120.82
1	5e	126	VAL	N-CA-C	5.98	116.76	110.72
1	5f	141	ILE	CA-C-N	5.98	128.91	120.42
1	5f	141	ILE	C-N-CA	5.98	128.91	120.42
1	5v	120	HIS	N-CA-C	5.98	118.26	110.43
1	5D	21	ASN	N-CA-C	5.98	118.57	111.33
1	5I	112	GLN	O-C-N	5.98	128.23	122.07
1	5J	139	ASN	O-C-N	5.98	128.46	122.12
1	5N	148	THR	CA-CB-OG1	5.98	118.57	109.60
1	5S	20	LEU	O-C-N	-5.98	115.78	122.12
1	5S	175	GLU	O-C-N	-5.98	115.51	122.87
1	5T	119	THR	O-C-N	-5.98	115.13	122.25
1	6a	2	ILE	CA-C-O	-5.98	113.65	120.65
1	6d	139	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	6j	108	THR	CA-CB-OG1	5.98	118.57	109.60
1	6r	180	GLU	O-C-N	-5.98	115.33	122.15
1	6w	31	ALA	N-CA-C	5.98	118.66	108.67
1	6x	9	GLN	N-CA-CB	5.98	118.76	109.97
1	6C	74	ASN	CA-C-O	5.98	126.89	120.55
1	6K	82	ARG	CA-C-O	5.98	126.76	120.42
1	6Q	108	THR	N-CA-C	5.98	121.37	112.94
1	78	167	ARG	N-CA-C	5.98	118.57	111.33
1	7a	2	ILE	CA-C-O	5.98	126.61	120.39
1	7q	139	ASN	CB-CG-OD1	-5.98	108.84	120.80
1	7B	175	GLU	N-CA-C	-5.98	105.56	112.92
1	7G	71	GLU	CA-C-N	5.98	128.57	120.44
1	7G	71	GLU	C-N-CA	5.98	128.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	72	THR	OG1-CB-CG2	-5.98	97.34	109.30
1	8d	168	PHE	CA-C-O	5.98	126.86	120.70
1	8l	83	LEU	N-CA-C	5.98	117.80	111.28
1	8p	52	LEU	CA-C-N	5.98	128.29	120.28
1	8p	52	LEU	C-N-CA	5.98	128.29	120.28
1	8N	27	VAL	N-CA-C	5.98	116.16	110.42
1	8U	154	ARG	O-C-N	-5.98	116.33	123.27
1	95	56	LEU	O-C-N	-5.98	115.63	122.09
1	9h	53	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	9w	32	PHE	N-CA-C	-5.98	105.81	112.57
1	9H	154	ARG	N-CA-C	5.98	119.01	110.10
1	9J	103	ASP	CA-C-N	5.98	128.65	120.46
1	9J	103	ASP	C-N-CA	5.98	128.65	120.46
1	Y	24	VAL	N-CA-CB	5.98	118.67	110.54
1	a5	85	PRO	CA-C-N	5.98	129.22	120.91
1	a5	85	PRO	C-N-CA	5.98	129.22	120.91
1	aj	167	ARG	CA-C-N	5.98	128.22	120.44
1	aj	167	ARG	C-N-CA	5.98	128.22	120.44
1	ak	173	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	as	100	ARG	O-C-N	-5.98	115.68	122.68
1	as	139	ASN	CA-CB-CG	-5.98	106.62	112.60
1	aU	184	TRP	N-CA-C	5.98	118.29	111.11
1	aX	148	THR	CA-CB-OG1	5.98	118.57	109.60
1	b5	154	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	ba	227	LYS	N-CA-C	5.98	117.88	111.36
1	bb	170	LYS	CA-C-N	5.98	128.57	120.44
1	bb	170	LYS	C-N-CA	5.98	128.57	120.44
1	bm	214	MET	CA-C-O	-5.98	114.21	120.55
1	bE	192	GLN	CG-CD-OE1	5.98	132.76	120.80
1	bQ	5	ASN	O-C-N	-5.98	115.29	122.65
1	c1	16	SER	CA-C-N	5.98	127.32	119.84
1	c1	16	SER	C-N-CA	5.98	127.32	119.84
1	c2	25	LYS	N-CA-C	5.98	117.80	111.28
1	cn	191	VAL	CA-C-N	5.98	128.57	120.38
1	cn	191	VAL	C-N-CA	5.98	128.57	120.38
1	cq	131	LYS	CA-C-N	5.98	128.29	120.28
1	cq	131	LYS	C-N-CA	5.98	128.29	120.28
1	cy	211	LEU	CA-C-N	5.98	128.22	120.44
1	cy	211	LEU	C-N-CA	5.98	128.22	120.44
1	cC	103	ASP	CA-CB-CG	-5.98	106.62	112.60
1	cI	80	TRP	CA-C-N	5.98	128.89	120.28
1	cI	80	TRP	C-N-CA	5.98	128.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cL	63	GLN	OE1-CD-NE2	-5.98	116.62	122.60
1	cN	84	HIS	CA-CB-CG	5.98	119.78	113.80
1	d4	152	ASP	CA-C-N	5.98	128.58	120.63
1	d4	152	ASP	C-N-CA	5.98	128.58	120.63
1	d5	211	LEU	N-CA-CB	5.98	118.85	109.94
1	df	110	THR	CA-C-N	5.98	128.22	120.44
1	df	110	THR	C-N-CA	5.98	128.22	120.44
1	du	106	GLY	N-CA-C	-5.98	106.52	114.95
1	dC	224	PRO	CA-C-O	-5.98	114.52	121.34
1	dF	20	LEU	N-CA-C	5.98	117.80	111.28
1	dM	128	GLU	CA-C-N	5.98	128.60	120.77
1	dM	128	GLU	C-N-CA	5.98	128.60	120.77
1	dO	192	GLN	N-CA-C	5.98	119.68	112.38
1	dS	229	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	dY	228	ALA	O-C-N	-5.98	115.66	123.02
1	e1	130	TYR	CA-C-N	5.98	128.57	120.38
1	e1	130	TYR	C-N-CA	5.98	128.57	120.38
1	e5	64	ALA	N-CA-C	5.98	117.80	111.28
1	e8	113	GLU	CA-C-N	5.98	128.57	120.38
1	e8	113	GLU	C-N-CA	5.98	128.57	120.38
1	ek	27	VAL	CA-C-O	5.98	127.17	120.95
1	ek	57	ASN	CA-C-O	5.98	126.86	120.70
1	1q	47	ALA	CB-CA-C	5.98	119.65	109.72
1	ey	100	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	eK	77	ALA	O-C-N	-5.98	115.91	122.07
1	f6	96	MET	N-CA-C	5.98	119.83	110.32
1	fs	183	ASN	N-CA-CB	-5.98	101.33	110.12
1	1x	41	SER	CA-C-N	5.98	128.29	120.28
1	1x	41	SER	C-N-CA	5.98	128.29	120.28
1	fv	184	TRP	O-C-N	-5.98	115.91	122.07
1	fT	158	LYS	CA-C-N	5.98	128.70	120.39
1	fT	158	LYS	C-N-CA	5.98	128.70	120.39
1	g2	195	ASN	O-C-N	-5.98	115.14	121.30
1	1B	136	LEU	CA-C-O	-5.98	114.54	120.70
1	g	9	GLN	O-C-N	-5.98	115.88	123.24
1	5	191	VAL	CB-CA-C	-5.98	102.41	112.16
1	6	50	GLN	O-C-N	-5.98	115.91	122.07
1	gX	82	ARG	NE-CZ-NH1	-5.98	115.52	121.50
1	hf	132	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	hj	62	HIS	N-CA-C	5.98	119.88	112.58
1	hC	120	HIS	O-C-N	-5.98	115.62	122.68
1	1N	33	SER	CB-CA-C	5.98	118.97	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1P	129	ILE	CA-C-N	5.98	128.21	120.44
1	1P	129	ILE	C-N-CA	5.98	128.21	120.44
1	jN	188	THR	CA-C-N	5.98	128.29	120.28
1	jN	188	THR	C-N-CA	5.98	128.29	120.28
1	jY	82	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	k0	65	ALA	CA-C-O	5.98	127.10	120.82
1	k3	44	SER	CA-C-O	5.98	126.30	119.18
1	kq	79	GLU	O-C-N	-5.98	115.33	122.15
1	kN	51	ASP	O-C-N	-5.98	115.33	122.15
1	kY	82	ARG	N-CA-C	5.98	117.47	111.07
1	lf	200	THR	CA-C-O	-5.98	114.08	120.42
1	28	52	LEU	O-C-N	-5.98	114.92	122.27
1	ls	189	LEU	CA-C-O	-5.98	113.60	120.24
1	lv	5	ASN	CA-CB-CG	5.98	118.58	112.60
1	lO	5	ASN	CA-C-O	5.98	128.46	121.46
1	2e	153	ILE	CB-CA-C	-5.98	103.72	110.96
1	2l	95	GLN	CB-CG-CD	5.98	122.76	112.60
1	2K	188	THR	O-C-N	-5.98	115.78	122.12
1	2U	102	SER	N-CA-C	5.98	117.47	111.07
1	31	33	SER	CA-C-O	-5.98	114.58	120.26
1	31	143	ARG	CG-CD-NE	-5.98	98.85	112.00
1	3i	155	GLN	O-C-N	-5.98	115.58	122.93
1	3F	57	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	4t	88	ALA	CA-C-N	5.98	131.26	121.87
1	4t	88	ALA	C-N-CA	5.98	131.26	121.87
1	4E	113	GLU	CB-CA-C	5.98	120.72	110.79
1	4K	7	GLN	N-CA-CB	5.98	119.57	110.42
1	4O	190	LEU	N-CA-C	5.98	117.80	111.28
1	4S	98	GLU	CA-C-N	5.98	127.31	119.84
1	4S	98	GLU	C-N-CA	5.98	127.31	119.84
1	5k	82	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	5W	190	LEU	O-C-N	-5.98	115.78	122.12
1	60	123	PRO	CA-C-N	5.98	126.89	122.59
1	60	123	PRO	C-N-CA	5.98	126.89	122.59
1	62	184	TRP	CA-C-N	5.98	128.21	120.44
1	62	184	TRP	C-N-CA	5.98	128.21	120.44
1	6u	79	GLU	N-CA-C	5.98	117.47	111.07
1	7O	224	PRO	N-CA-CB	5.98	106.59	102.35
1	7R	52	LEU	CA-C-N	5.98	128.29	120.28
1	7R	52	LEU	C-N-CA	5.98	128.29	120.28
1	8k	9	GLN	N-CA-C	5.98	119.35	111.28
1	8p	147	PRO	CA-C-N	5.98	132.66	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8p	147	PRO	C-N-CA	5.98	132.66	122.37
1	8K	64	ALA	CA-C-N	5.98	128.29	120.28
1	8K	64	ALA	C-N-CA	5.98	128.29	120.28
1	8N	131	LYS	CA-C-O	5.98	126.89	120.55
1	99	167	ARG	CA-C-N	5.98	128.21	120.44
1	99	167	ARG	C-N-CA	5.98	128.21	120.44
1	9S	150	ILE	CA-CB-CG2	5.98	120.67	110.50
1	ar	156	GLY	O-C-N	-5.98	115.79	121.77
1	au	10	MET	N-CA-C	5.98	123.54	110.80
1	aB	162	ARG	N-CA-C	5.98	117.80	111.28
1	aX	69	LEU	N-CA-C	5.98	117.88	111.36
1	b1	164	TYR	CA-C-N	5.98	128.91	120.42
1	b1	164	TYR	C-N-CA	5.98	128.91	120.42
1	b6	154	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	bf	18	ARG	N-CA-CB	-5.98	101.33	110.12
1	bD	135	ILE	CA-C-O	5.98	127.17	120.95
1	1a	110	THR	O-C-N	-5.98	116.27	123.03
1	bV	166	ASP	CA-CB-CG	5.98	118.58	112.60
1	bZ	222	GLY	O-C-N	-5.98	116.47	123.17
1	ce	190	LEU	CA-C-O	5.98	126.76	120.42
1	dm	24	VAL	O-C-N	-5.98	113.87	122.12
1	dv	63	GLN	N-CA-C	5.98	117.80	111.28
1	dU	224	PRO	CA-C-N	5.98	130.40	122.75
1	dU	224	PRO	C-N-CA	5.98	130.40	122.75
1	dV	70	LYS	CA-C-O	-5.98	114.21	120.55
1	f6	35	GLU	CA-C-N	5.98	128.91	120.42
1	f6	35	GLU	C-N-CA	5.98	128.91	120.42
1	fc	28	GLU	N-CA-C	5.98	117.80	111.28
1	fm	32	PHE	CA-CB-CG	-5.98	107.82	113.80
1	fy	23	TRP	N-CA-C	5.98	118.28	111.11
1	fM	188	THR	OG1-CB-CG2	-5.98	97.34	109.30
1	fN	5	ASN	CA-CB-CG	-5.98	106.62	112.60
1	g	195	ASN	CA-C-N	5.98	125.46	119.24
1	g	195	ASN	C-N-CA	5.98	125.46	119.24
1	h	126	VAL	O-C-N	-5.98	116.07	121.87
1	s	226	HIS	O-C-N	-5.98	116.57	123.33
1	g9	117	TRP	CB-CG-CD2	5.98	135.17	126.80
1	gd	184	TRP	O-C-N	-5.98	115.34	122.15
1	gi	140	LYS	O-C-N	-5.98	115.91	122.07
1	gC	41	SER	N-CA-CB	5.98	118.68	110.01
1	gO	203	LYS	CA-C-O	-5.98	114.54	120.82
1	gW	218	CYS	CA-C-N	5.98	129.78	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gW	218	CYS	C-N-CA	5.98	129.78	120.75
1	h2	147	PRO	N-CA-CB	5.98	108.32	103.36
1	h3	145	TYR	CA-C-O	5.98	126.55	119.56
1	hb	101	GLY	CA-C-N	5.98	128.29	120.28
1	hb	101	GLY	C-N-CA	5.98	128.29	120.28
1	hd	98	GLU	N-CA-CB	-5.98	102.80	110.03
1	ht	41	SER	N-CA-CB	5.98	118.85	109.94
1	hu	20	LEU	CA-C-N	5.98	128.21	120.44
1	hu	20	LEU	C-N-CA	5.98	128.21	120.44
1	hB	112	GLN	N-CA-C	5.98	118.75	111.82
1	hX	101	GLY	N-CA-C	5.98	121.07	113.24
1	i1	56	LEU	N-CA-CB	5.98	118.91	110.12
1	ib	95	GLN	CA-C-N	5.98	130.22	121.31
1	ib	95	GLN	C-N-CA	5.98	130.22	121.31
1	io	146	SER	N-CA-C	5.98	118.09	109.48
1	iz	99	PRO	N-CA-C	5.98	120.47	111.14
1	iI	120	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	iJ	164	TYR	O-C-N	-5.98	115.78	122.12
1	iM	101	GLY	CA-C-N	5.98	128.29	120.28
1	iM	101	GLY	C-N-CA	5.98	128.29	120.28
1	iS	97	ARG	NH1-CZ-NH2	-5.98	111.53	119.30
1	iV	133	TRP	CA-C-N	5.98	128.09	120.56
1	iV	133	TRP	C-N-CA	5.98	128.09	120.56
1	iV	229	ARG	CA-C-N	5.98	128.51	120.50
1	iV	229	ARG	C-N-CA	5.98	128.51	120.50
1	j0	54	THR	CA-C-N	5.98	128.61	120.54
1	j0	54	THR	C-N-CA	5.98	128.61	120.54
1	j2	114	GLN	CA-C-N	5.98	128.65	120.46
1	j2	114	GLN	C-N-CA	5.98	128.65	120.46
1	j4	59	VAL	O-C-N	-5.98	115.96	121.94
1	jd	66	MET	CG-SD-CE	-5.98	87.75	100.90
1	jU	174	ALA	O-C-N	-5.98	115.63	122.09
1	jW	212	GLU	CA-C-N	5.98	128.21	120.44
1	jW	212	GLU	C-N-CA	5.98	128.21	120.44
1	k0	21	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	k8	56	LEU	N-CA-C	5.98	117.47	111.07
1	k9	87	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	21	28	GLU	CA-C-O	5.98	127.10	120.82
1	kJ	74	ASN	N-CA-C	5.98	117.47	111.07
1	kN	143	ARG	CA-C-N	5.98	128.29	120.28
1	kN	143	ARG	C-N-CA	5.98	128.29	120.28
1	le	220	GLY	O-C-N	-5.98	114.93	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lf	193	ASN	CA-CB-CG	-5.98	106.62	112.60
1	lp	139	ASN	OD1-CG-ND2	-5.98	116.62	122.60
1	lu	128	GLU	CA-C-N	5.98	128.09	120.56
1	lu	128	GLU	C-N-CA	5.98	128.09	120.56
1	lB	171	THR	O-C-N	-5.98	115.34	122.15
1	29	132	ARG	CA-C-N	5.98	128.29	120.28
1	29	132	ARG	C-N-CA	5.98	128.29	120.28
1	lQ	20	LEU	N-CA-CB	5.98	119.01	110.16
1	2w	27	VAL	CA-C-N	5.98	128.57	120.38
1	2w	27	VAL	C-N-CA	5.98	128.57	120.38
1	2z	46	GLY	N-CA-C	5.98	123.91	115.30
1	2E	115	ILE	N-CA-CB	5.98	117.14	110.62
1	2E	159	GLU	CA-C-O	-5.98	114.79	119.99
1	2F	35	GLU	N-CA-C	5.98	119.40	111.75
1	3w	131	LYS	O-C-N	-5.98	115.78	122.12
1	3B	84	HIS	CA-CB-CG	5.98	119.78	113.80
1	3W	112	GLN	N-CA-CB	5.98	119.43	110.22
1	44	203	LYS	N-CA-C	5.98	117.80	111.28
1	47	19	THR	N-CA-C	5.98	118.75	111.82
1	4f	36	VAL	CA-C-N	5.98	125.11	120.33
1	4f	36	VAL	C-N-CA	5.98	125.11	120.33
1	4p	145	TYR	O-C-N	-5.98	114.87	122.34
1	4E	102	SER	N-CA-C	5.98	120.04	112.87
1	4K	138	LEU	N-CA-CB	5.98	119.03	110.06
1	51	113	GLU	N-CA-C	5.98	117.80	111.28
1	5c	8	GLY	O-C-N	5.98	130.47	122.70
1	5g	212	GLU	O-C-N	-5.98	115.91	122.07
1	5h	226	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
1	5i	37	ILE	O-C-N	-5.98	114.29	121.10
1	5o	222	GLY	CA-C-O	5.98	127.44	122.24
1	5p	154	ARG	N-CA-C	5.98	118.78	109.52
1	5u	67	GLN	N-CA-CB	5.98	118.91	110.12
1	5E	146	SER	CA-C-O	-5.98	114.13	120.23
1	5R	112	GLN	O-C-N	-5.98	114.21	122.46
1	6g	101	GLY	O-C-N	5.98	127.97	122.17
1	6s	177	ALA	CB-CA-C	5.98	120.54	109.54
1	6I	69	LEU	CA-C-N	5.98	128.61	120.54
1	6I	69	LEU	C-N-CA	5.98	128.61	120.54
1	6Q	12	HIS	ND1-CE1-NE2	5.98	114.38	108.40
1	6S	174	ALA	CA-C-N	5.98	129.36	120.87
1	6S	174	ALA	C-N-CA	5.98	129.36	120.87
1	6W	168	PHE	CA-C-N	5.98	128.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6W	168	PHE	C-N-CA	5.98	128.29	120.28
1	6W	214	MET	CG-SD-CE	-5.98	87.75	100.90
1	6Z	89	GLY	O-C-N	-5.98	115.79	121.77
1	7q	208	ALA	CA-C-N	5.98	129.20	120.71
1	7q	208	ALA	C-N-CA	5.98	129.20	120.71
1	7B	29	GLU	CA-C-O	5.98	126.86	120.70
1	7J	131	LYS	N-CA-C	5.98	118.56	111.33
1	7O	191	VAL	O-C-N	-5.98	116.07	121.87
1	7Q	25	LYS	N-CA-C	5.98	117.80	111.28
1	7V	1	PRO	N-CD-CG	5.98	112.17	103.20
1	82	89	GLY	CA-C-N	5.98	127.31	119.84
1	82	89	GLY	C-N-CA	5.98	127.31	119.84
1	89	229	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	8J	198	CYS	N-CA-C	-5.98	104.84	111.36
1	8T	95	GLN	CA-C-O	5.98	127.44	120.80
1	8V	83	LEU	CA-C-N	5.98	130.11	122.64
1	8V	83	LEU	C-N-CA	5.98	130.11	122.64
1	8V	92	GLU	N-CA-C	5.98	121.65	113.16
1	91	185	MET	CA-C-N	5.98	128.78	120.29
1	91	185	MET	C-N-CA	5.98	128.78	120.29
1	96	170	LYS	N-CA-C	5.98	117.47	111.07
1	9r	129	ILE	CA-C-N	5.98	128.29	120.28
1	9r	129	ILE	C-N-CA	5.98	128.29	120.28
1	at	178	SER	N-CA-CB	5.98	118.81	110.26
1	ay	198	CYS	CA-C-N	5.98	128.57	120.38
1	ay	198	CYS	C-N-CA	5.98	128.57	120.38
1	13	174	ALA	N-CA-C	5.98	118.75	111.82
1	aE	58	THR	CA-CB-OG1	-5.98	100.63	109.60
1	b1	86	VAL	CA-CB-CG2	-5.98	100.24	110.40
1	b5	139	ASN	CA-CB-CG	5.98	118.58	112.60
1	bw	30	LYS	CA-C-N	5.98	133.17	122.89
1	bw	30	LYS	C-N-CA	5.98	133.17	122.89
1	bL	104	ILE	CA-C-N	5.98	129.40	120.31
1	bL	104	ILE	C-N-CA	5.98	129.40	120.31
1	bM	202	LEU	CA-C-N	5.98	128.29	120.28
1	bM	202	LEU	C-N-CA	5.98	128.29	120.28
1	bN	142	VAL	CA-C-O	5.98	127.17	120.95
1	bS	91	ILE	N-CA-C	5.98	121.78	109.34
1	cc	57	ASN	CA-C-O	5.98	126.89	120.55
1	cX	125	PRO	CA-C-N	5.98	128.96	120.53
1	cX	125	PRO	C-N-CA	5.98	128.96	120.53
1	d6	173	ARG	NE-CZ-NH2	5.98	124.58	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d6	210	THR	CA-CB-OG1	5.98	118.57	109.60
1	1k	25	LYS	N-CA-C	5.98	117.88	111.36
1	du	127	GLY	N-CA-C	-5.98	104.89	113.86
1	dN	213	GLU	N-CA-C	5.98	117.80	111.28
1	dQ	18	ARG	CA-CB-CG	5.98	126.06	114.10
1	e6	137	GLY	CA-C-N	5.98	128.78	120.29
1	e6	137	GLY	C-N-CA	5.98	128.78	120.29
1	e8	145	TYR	CA-C-O	-5.98	112.65	119.41
1	eh	164	TYR	N-CA-C	5.98	117.59	111.14
1	eu	197	ASP	N-CA-C	5.98	117.80	111.28
1	eF	22	ALA	CA-C-O	5.98	126.89	120.55
1	1s	89	GLY	CA-C-N	5.98	127.31	119.84
1	1s	89	GLY	C-N-CA	5.98	127.31	119.84
1	eS	143	ARG	NH1-CZ-NH2	-5.98	111.53	119.30
1	eY	39	MET	CA-C-O	-5.98	114.21	120.55
1	f0	183	ASN	CA-CB-CG	-5.98	106.62	112.60
1	fg	58	THR	CA-CB-OG1	-5.98	100.63	109.60
1	fm	133	TRP	N-CA-C	5.98	119.04	111.69
1	fr	194	ALA	N-CA-C	5.98	118.04	110.33
1	fw	167	ARG	NE-CZ-NH2	5.98	124.58	119.20
1	fN	30	LYS	N-CA-C	-5.98	106.53	113.88
1	1z	23	TRP	CD2-CE3-CZ3	-5.98	110.83	118.60
1	g2	99	PRO	O-C-N	-5.98	115.93	123.10
1	1B	110	THR	CA-CB-CG2	5.98	120.66	110.50
1	w	163	ASP	O-C-N	-5.98	115.91	122.07
1	D	59	VAL	CA-C-N	5.98	133.13	121.41
1	D	59	VAL	C-N-CA	5.98	133.13	121.41
1	3	56	LEU	CA-C-N	5.98	128.29	120.28
1	3	56	LEU	C-N-CA	5.98	128.29	120.28
1	h4	62	HIS	ND1-CG-CD2	5.98	112.08	106.10
1	h5	115	ILE	CA-C-O	5.98	127.50	121.17
1	hb	16	SER	N-CA-C	5.98	118.28	109.50
1	hn	7	GLN	OE1-CD-NE2	-5.98	116.62	122.60
1	hr	107	THR	N-CA-C	5.98	117.79	111.28
1	hB	37	ILE	N-CA-CB	5.98	114.27	110.50
1	hE	111	LEU	CA-C-N	5.98	128.29	120.28
1	hE	111	LEU	C-N-CA	5.98	128.29	120.28
1	hI	143	ARG	N-CA-C	5.98	117.46	111.07
1	ip	2	ILE	N-CA-C	5.98	116.91	108.36
1	iv	146	SER	CA-C-N	5.98	127.31	119.84
1	iv	146	SER	C-N-CA	5.98	127.31	119.84
1	jk	182	LYS	N-CA-C	5.98	117.87	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jJ	188	THR	O-C-N	-5.98	114.64	122.59
1	jZ	125	PRO	CA-C-N	5.98	130.56	120.64
1	jZ	125	PRO	C-N-CA	5.98	130.56	120.64
1	kC	159	GLU	CA-C-N	5.98	125.99	119.89
1	kC	159	GLU	C-N-CA	5.98	125.99	119.89
1	lC	107	THR	O-C-N	-5.98	114.35	122.36
1	lC	125	PRO	CA-C-N	5.98	128.65	120.46
1	lC	125	PRO	C-N-CA	5.98	128.65	120.46
1	2A	25	LYS	CA-C-O	-5.98	113.10	119.97
1	2N	5	ASN	CA-C-O	5.98	126.54	119.67
1	3v	93	PRO	N-CA-C	-5.98	107.81	114.92
1	41	99	PRO	CA-C-O	-5.98	114.63	121.98
1	4y	22	ALA	N-CA-C	5.98	117.79	111.28
1	4Q	63	GLN	N-CA-C	5.98	120.30	112.89
1	4X	229	ARG	N-CA-CB	5.98	118.82	110.04
1	5i	221	VAL	CA-C-O	-5.98	113.96	120.71
1	5G	152	ASP	N-CA-C	5.98	117.47	111.07
1	5L	114	GLN	O-C-N	-5.98	115.91	122.07
1	5O	140	LYS	N-CA-CB	5.98	118.91	110.12
1	72	36	VAL	CA-C-N	-5.98	116.47	120.24
1	72	36	VAL	C-N-CA	-5.98	116.47	120.24
1	7Q	118	MET	O-C-N	-5.98	114.87	122.34
1	8l	167	ARG	NE-CZ-NH2	-5.98	113.82	119.20
1	8x	98	GLU	CA-C-N	5.98	126.31	119.92
1	8x	98	GLU	C-N-CA	5.98	126.31	119.92
1	8U	45	GLU	O-C-N	-5.98	115.78	122.12
1	94	162	ARG	N-CA-C	5.98	118.56	111.33
1	9n	57	ASN	CA-C-N	5.98	128.61	120.54
1	9n	57	ASN	C-N-CA	5.98	128.61	120.54
1	9p	167	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	9r	158	LYS	CA-C-N	5.98	129.57	121.20
1	9r	158	LYS	C-N-CA	5.98	129.57	121.20
1	9V	69	LEU	CA-C-N	5.98	128.29	120.28
1	9V	69	LEU	C-N-CA	5.98	128.29	120.28
1	a2	87	HIS	CA-CB-CG	5.98	119.78	113.80
1	aw	152	ASP	CA-CB-CG	-5.98	106.62	112.60
1	17	29	GLU	N-CA-C	5.98	117.87	111.36
1	1a	177	ALA	CA-C-N	5.98	132.95	121.54
1	1a	177	ALA	C-N-CA	5.98	132.95	121.54
1	bS	80	TRP	CA-C-N	5.98	128.29	120.28
1	bS	80	TRP	C-N-CA	5.98	128.29	120.28
1	cj	21	ASN	CA-C-O	-5.98	114.55	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cm	112	GLN	N-CA-C	5.98	118.58	111.71
1	cI	57	ASN	CA-CB-CG	-5.98	106.62	112.60
1	d0	79	GLU	CA-C-O	-5.98	114.22	120.55
1	1i	227	LYS	CA-C-N	5.98	128.29	120.28
1	1i	227	LYS	C-N-CA	5.98	128.29	120.28
1	dn	76	GLU	CA-C-N	5.98	128.29	120.28
1	dn	76	GLU	C-N-CA	5.98	128.29	120.28
1	dB	89	GLY	CA-C-N	5.98	126.00	119.90
1	dB	89	GLY	C-N-CA	5.98	126.00	119.90
1	ed	54	THR	N-CA-C	5.98	117.79	111.28
1	em	212	GLU	N-CA-C	5.98	118.28	111.11
1	eZ	25	LYS	N-CA-CB	5.98	118.90	110.12
1	fn	97	ARG	NE-CZ-NH1	5.98	127.48	121.50
1	fy	141	ILE	CA-CB-CG1	5.98	120.56	110.40
1	Q	131	LYS	N-CA-C	5.98	118.56	111.33
1	ga	219	GLN	OE1-CD-NE2	-5.97	116.62	122.60
1	gh	226	HIS	CA-CB-CG	5.97	119.77	113.80
1	gi	23	TRP	CA-C-O	-5.97	114.55	120.82
1	gr	210	THR	CA-CB-OG1	5.97	118.56	109.60
1	gP	191	VAL	CA-C-N	5.97	128.57	120.44
1	gP	191	VAL	C-N-CA	5.97	128.57	120.44
1	gU	60	GLY	CA-C-N	5.97	127.28	120.53
1	gU	60	GLY	C-N-CA	5.97	127.28	120.53
1	gV	130	TYR	N-CA-C	5.97	117.79	111.28
1	hf	219	GLN	CA-C-O	5.97	125.71	119.14
1	hi	186	THR	CA-C-O	5.97	126.75	120.42
1	hr	91	ILE	CA-C-N	5.97	127.56	120.09
1	hr	91	ILE	C-N-CA	5.97	127.56	120.09
1	hs	219	GLN	OE1-CD-NE2	-5.97	116.62	122.60
1	hx	134	ILE	N-CA-C	5.97	116.71	110.62
1	hH	68	MET	CA-C-O	5.97	126.88	120.55
1	hR	224	PRO	O-C-N	5.97	129.88	122.71
1	i9	82	ARG	NE-CZ-NH2	5.97	124.58	119.20
1	ic	12	HIS	CB-CG-CD2	-5.97	123.43	131.20
1	ix	133	TRP	CB-CG-CD1	5.97	135.86	126.90
1	iL	200	THR	O-C-N	-5.97	114.22	122.46
1	iN	12	HIS	CA-C-N	5.97	130.32	120.94
1	iN	12	HIS	C-N-CA	5.97	130.32	120.94
1	j7	97	ARG	N-CA-CB	5.97	118.95	109.51
1	ja	132	ARG	N-CA-CB	5.97	118.84	109.94
1	jg	30	LYS	CA-C-N	5.97	128.29	120.28
1	jg	30	LYS	C-N-CA	5.97	128.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	82	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	jm	133	TRP	CA-C-N	5.97	128.09	120.56
1	jm	133	TRP	C-N-CA	5.97	128.09	120.56
1	jt	136	LEU	CA-C-O	5.97	128.01	121.02
1	ju	41	SER	N-CA-CB	5.97	118.67	110.01
1	jx	155	GLN	N-CA-CB	-5.97	100.51	109.71
1	jF	154	ARG	NE-CZ-NH2	5.97	124.58	119.20
1	jU	114	GLN	CB-CG-CD	5.97	122.75	112.60
1	k8	68	MET	N-CA-C	5.97	117.79	111.28
1	20	137	GLY	CA-C-O	5.97	126.99	120.66
1	ka	35	GLU	CA-C-O	5.97	126.51	119.28
1	kr	143	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	kr	180	GLU	CB-CG-CD	5.97	122.75	112.60
1	kW	173	ARG	O-C-N	-5.97	115.79	122.12
1	l2	193	ASN	CA-C-O	5.97	126.43	119.32
1	l2	226	HIS	CB-CG-CD2	-5.97	123.43	131.20
1	lh	20	LEU	N-CA-C	5.97	117.79	111.28
1	lx	73	ILE	CA-C-N	5.97	128.28	120.28
1	lx	73	ILE	C-N-CA	5.97	128.28	120.28
1	lH	150	ILE	O-C-N	-5.97	116.38	122.23
1	2b	16	SER	N-CA-C	5.97	117.42	109.83
1	2u	132	ARG	NE-CZ-NH2	-5.97	113.82	119.20
1	2y	81	ASP	N-CA-C	5.97	117.79	111.28
1	2z	30	LYS	N-CA-CB	5.97	120.59	110.49
1	2H	197	ASP	CA-C-N	5.97	128.28	120.28
1	2H	197	ASP	C-N-CA	5.97	128.28	120.28
1	2I	138	LEU	N-CA-C	5.97	117.46	111.07
1	2S	80	TRP	N-CA-C	5.97	117.79	111.28
1	2X	99	PRO	N-CA-C	-5.97	101.70	111.68
1	3a	53	ASN	CA-C-N	5.97	128.21	120.44
1	3a	53	ASN	C-N-CA	5.97	128.21	120.44
1	3u	72	THR	N-CA-CB	5.97	119.54	110.28
1	3D	53	ASN	CA-CB-CG	-5.97	106.63	112.60
1	3I	70	LYS	N-CA-C	5.97	117.79	111.28
1	3K	200	THR	N-CA-C	-5.97	104.85	111.36
1	3Q	217	ALA	CA-C-N	5.97	131.14	122.36
1	3Q	217	ALA	C-N-CA	5.97	131.14	122.36
1	3T	230	VAL	N-CA-C	5.97	116.46	107.80
1	3U	229	ARG	O-C-N	-5.97	116.19	123.30
1	3W	69	LEU	O-C-N	-5.97	115.79	122.12
1	47	230	VAL	N-CA-C	5.97	119.05	110.09
1	4a	118	MET	CA-C-O	5.97	126.88	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4S	31	ALA	N-CA-C	5.97	119.06	109.02
1	4U	34	PRO	N-CA-CB	5.97	109.99	103.30
1	4W	77	ALA	CA-C-N	5.97	128.29	120.28
1	4W	77	ALA	C-N-CA	5.97	128.29	120.28
1	4Y	48	THR	O-C-N	-5.97	114.84	121.53
1	5d	104	ILE	O-C-N	5.97	127.77	121.91
1	5e	65	ALA	O-C-N	-5.97	115.79	122.12
1	5j	120	HIS	CA-CB-CG	5.97	119.78	113.80
1	5S	41	SER	N-CA-CB	5.97	118.67	110.01
1	67	27	VAL	N-CA-C	5.97	117.43	110.62
1	6m	227	LYS	O-C-N	-5.97	115.01	122.24
1	6o	84	HIS	CA-C-N	5.97	127.31	119.84
1	6o	84	HIS	C-N-CA	5.97	127.31	119.84
1	6H	10	MET	CG-SD-CE	-5.97	87.75	100.90
1	6Y	193	ASN	CA-CB-CG	5.97	118.57	112.60
1	7n	62	HIS	CA-C-N	5.97	128.77	120.29
1	7n	62	HIS	C-N-CA	5.97	128.77	120.29
1	7s	87	HIS	CA-CB-CG	5.97	119.78	113.80
1	7t	130	TYR	O-C-N	-5.97	115.92	122.07
1	7D	112	GLN	CA-C-N	5.97	128.29	120.28
1	7D	112	GLN	C-N-CA	5.97	128.29	120.28
1	7T	19	THR	N-CA-C	5.97	117.79	111.28
1	85	58	THR	N-CA-C	5.97	117.79	111.28
1	8d	145	TYR	CB-CG-CD1	-5.97	111.84	120.80
1	8j	196	PRO	N-CA-CB	5.97	110.13	103.44
1	8r	3	VAL	O-C-N	-5.97	116.14	122.83
1	8B	6	LEU	CA-C-N	5.97	129.25	120.82
1	8B	6	LEU	C-N-CA	5.97	129.25	120.82
1	8K	40	PHE	O-C-N	-5.97	115.92	122.07
1	8M	104	ILE	O-C-N	-5.97	116.07	121.87
1	91	33	SER	O-C-N	-5.97	115.90	122.17
1	9c	140	LYS	CA-C-N	5.97	128.64	120.46
1	9c	140	LYS	C-N-CA	5.97	128.64	120.46
1	9h	175	GLU	N-CA-C	5.97	118.62	110.55
1	9w	55	MET	N-CA-C	5.97	117.79	111.28
1	9O	108	THR	O-C-N	-5.97	114.67	122.20
1	Y	59	VAL	N-CA-C	5.97	116.72	110.62
1	Y	99	PRO	CA-C-N	5.97	131.58	120.95
1	Y	99	PRO	C-N-CA	5.97	131.58	120.95
1	9T	111	LEU	CA-C-N	5.97	128.61	120.54
1	9T	111	LEU	C-N-CA	5.97	128.61	120.54
1	a1	221	VAL	CA-C-O	5.97	125.53	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aa	167	ARG	NE-CZ-NH2	-5.97	113.82	119.20
1	ah	152	ASP	O-C-N	-5.97	115.17	122.34
1	aB	199	LYS	CA-C-N	5.97	128.29	120.28
1	aB	199	LYS	C-N-CA	5.97	128.29	120.28
1	aF	195	ASN	CA-CB-CG	5.97	118.58	112.60
1	aR	135	ILE	N-CA-CB	5.97	117.14	110.51
1	aS	143	ARG	N-CA-C	5.97	117.46	111.07
1	aX	97	ARG	N-CA-C	5.97	118.92	110.50
1	b9	71	GLU	CB-CA-C	-5.97	101.25	110.81
1	17	72	THR	CA-C-N	5.97	128.09	120.56
1	17	72	THR	C-N-CA	5.97	128.09	120.56
1	bu	166	ASP	CA-CB-CG	-5.97	106.62	112.60
1	bu	191	VAL	CA-C-N	5.97	128.28	120.28
1	bu	191	VAL	C-N-CA	5.97	128.28	120.28
1	bA	98	GLU	CA-C-N	5.97	127.58	120.23
1	bA	98	GLU	C-N-CA	5.97	127.58	120.23
1	bK	54	THR	N-CA-C	5.97	117.46	111.07
1	bL	203	LYS	N-CA-C	5.97	118.75	111.82
1	c0	50	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	c1	147	PRO	CA-C-O	-5.97	114.74	121.43
1	c6	117	TRP	CA-C-N	5.97	130.70	120.72
1	c6	117	TRP	C-N-CA	5.97	130.70	120.72
1	c9	104	ILE	N-CA-CB	-5.97	101.62	110.58
1	cl	82	ARG	CA-C-O	5.97	126.85	120.70
1	ct	214	MET	N-CA-C	5.97	117.46	111.07
1	cJ	82	ARG	CA-CB-CG	5.97	126.05	114.10
1	cN	114	GLN	CA-C-O	5.97	127.29	120.90
1	d1	105	ALA	CA-C-N	5.97	131.76	121.07
1	d1	105	ALA	C-N-CA	5.97	131.76	121.07
1	d8	36	VAL	N-CA-C	-5.97	104.26	113.16
1	dg	74	ASN	CA-C-N	5.97	128.77	120.29
1	dg	74	ASN	C-N-CA	5.97	128.77	120.29
1	dx	36	VAL	CA-C-O	-5.97	114.74	120.95
1	dT	121	ASN	CA-CB-CG	5.97	118.58	112.60
1	e3	201	ILE	N-CA-C	5.97	116.16	110.42
1	ec	62	HIS	O-C-N	-5.97	114.57	122.40
1	1r	68	MET	O-C-N	5.97	128.45	122.12
1	eH	164	TYR	N-CA-CB	-5.97	101.32	110.16
1	eK	95	GLN	CA-C-N	5.97	132.28	122.07
1	eK	95	GLN	C-N-CA	5.97	132.28	122.07
1	f2	50	GLN	N-CA-C	5.97	117.79	111.28
1	fr	9	GLN	O-C-N	-5.97	114.64	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fz	110	THR	N-CA-CB	5.97	120.02	110.46
1	fD	91	ILE	CA-C-N	5.97	128.69	120.39
1	fD	91	ILE	C-N-CA	5.97	128.69	120.39
1	fG	85	PRO	CA-C-N	5.97	129.91	121.66
1	fG	85	PRO	C-N-CA	5.97	129.91	121.66
1	fH	69	LEU	N-CA-CB	-5.97	101.34	110.12
1	fJ	64	ALA	N-CA-C	5.97	117.46	111.07
1	fJ	212	GLU	N-CA-C	5.97	118.56	111.33
1	1A	198	CYS	N-CA-CB	5.97	118.90	110.12
1	g6	8	GLY	O-C-N	-5.97	115.87	122.50
1	0	129	ILE	CA-C-N	5.97	128.21	120.44
1	0	129	ILE	C-N-CA	5.97	128.21	120.44
1	n	130	TYR	CA-C-N	5.97	128.28	120.28
1	n	130	TYR	C-N-CA	5.97	128.28	120.28
1	z	184	TRP	CB-CG-CD1	5.97	135.86	126.90
1	4	191	VAL	CA-C-O	-5.97	115.06	121.27
1	V	154	ARG	N-CA-C	-5.97	100.24	109.14
1	g9	91	ILE	CA-C-O	5.97	124.36	118.98
1	1C	53	ASN	CA-C-N	5.97	128.28	120.28
1	1C	53	ASN	C-N-CA	5.97	128.28	120.28
1	gp	93	PRO	CB-CA-C	5.97	117.24	109.89
1	gt	176	GLN	O-C-N	-5.97	116.34	123.27
1	gI	100	ARG	O-C-N	-5.97	115.69	122.68
1	gK	187	GLU	N-CA-C	5.97	117.46	111.07
1	1G	58	THR	CA-CB-OG1	5.97	118.56	109.60
1	gY	112	GLN	O-C-N	-5.97	115.79	122.12
1	hc	79	GLU	O-C-N	-5.97	115.88	122.09
1	hu	92	GLU	CA-C-O	-5.97	113.71	120.46
1	hy	153	ILE	CA-C-O	-5.97	114.20	121.13
1	hA	222	GLY	CA-C-N	5.97	131.25	121.87
1	hA	222	GLY	C-N-CA	5.97	131.25	121.87
1	hM	159	GLU	N-CA-CB	-5.97	101.29	110.07
1	i6	54	THR	CA-CB-OG1	-5.97	100.64	109.60
1	in	85	PRO	O-C-N	-5.97	115.60	123.01
1	iy	42	ALA	CA-C-O	-5.97	114.09	120.42
1	iy	166	ASP	CA-CB-CG	5.97	118.57	112.60
1	iz	24	VAL	CA-C-O	-5.97	114.84	121.17
1	iB	169	TYR	N-CA-C	5.97	118.58	111.71
1	iH	23	TRP	N-CA-C	5.97	117.46	111.07
1	iH	184	TRP	CA-C-N	5.97	128.28	120.28
1	iH	184	TRP	C-N-CA	5.97	128.28	120.28
1	iV	183	ASN	CA-CB-CG	5.97	118.57	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j4	57	ASN	CA-CB-CG	-5.97	106.63	112.60
1	j8	205	LEU	CA-C-N	5.97	131.25	121.87
1	j8	205	LEU	C-N-CA	5.97	131.25	121.87
1	jb	169	TYR	N-CA-CB	5.97	119.00	110.16
1	je	13	GLN	CA-C-N	5.97	129.24	120.82
1	je	13	GLN	C-N-CA	5.97	129.24	120.82
1	je	144	MET	CG-SD-CE	-5.97	87.76	100.90
1	jC	177	ALA	CA-C-N	5.97	129.60	120.82
1	jC	177	ALA	C-N-CA	5.97	129.60	120.82
1	jJ	141	ILE	CA-C-N	5.97	128.20	120.56
1	jJ	141	ILE	C-N-CA	5.97	128.20	120.56
1	jY	31	ALA	N-CA-C	5.97	119.48	111.24
1	kh	199	LYS	CA-C-N	5.97	128.56	120.38
1	kh	199	LYS	C-N-CA	5.97	128.56	120.38
1	kT	108	THR	CA-C-N	5.97	131.24	123.00
1	kT	108	THR	C-N-CA	5.97	131.24	123.00
1	kZ	96	MET	O-C-N	-5.97	116.07	123.36
1	l2	141	ILE	O-C-N	-5.97	116.06	121.91
1	l2	145	TYR	CA-C-N	5.97	129.74	120.60
1	l2	145	TYR	C-N-CA	5.97	129.74	120.60
1	lg	26	VAL	N-CA-C	5.97	116.15	110.42
1	lr	96	MET	O-C-N	-5.97	116.23	123.10
1	lt	138	LEU	O-C-N	-5.97	115.79	122.12
1	ly	65	ALA	N-CA-C	5.97	117.79	111.28
1	ly	114	GLN	N-CA-C	5.97	117.79	111.28
1	2v	24	VAL	CA-C-O	-5.97	114.74	120.95
1	2J	178	SER	N-CA-CB	5.97	118.75	109.97
1	2N	50	GLN	CB-CA-C	-5.97	101.50	110.88
1	31	223	GLY	O-C-N	-5.97	115.80	121.77
1	35	231	LEU	CB-CA-C	5.97	121.45	110.10
1	3y	140	LYS	O-C-N	-5.97	115.79	122.12
1	3B	162	ARG	CA-C-N	5.97	128.56	120.44
1	3B	162	ARG	C-N-CA	5.97	128.56	120.44
1	3D	82	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	3P	161	PHE	CA-CB-CG	5.97	119.77	113.80
1	3W	184	TRP	CB-CA-C	5.97	120.25	110.88
1	43	173	ARG	CA-C-N	5.97	128.28	120.28
1	43	173	ARG	C-N-CA	5.97	128.28	120.28
1	4b	213	GLU	O-C-N	-5.97	115.92	122.07
1	4h	169	TYR	CA-C-O	5.97	126.88	120.55
1	4w	120	HIS	CA-CB-CG	5.97	119.77	113.80
1	4y	202	LEU	CA-C-N	5.97	128.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	202	LEU	C-N-CA	5.97	128.88	120.28
1	4M	20	LEU	O-C-N	-5.97	115.92	122.07
1	5a	144	MET	N-CA-CB	-5.97	101.32	110.16
1	5a	214	MET	N-CA-CB	5.97	118.67	110.01
1	5n	137	GLY	O-C-N	5.97	127.98	122.19
1	5O	82	ARG	N-CA-CB	-5.97	100.67	110.40
1	6g	185	MET	CG-SD-CE	-5.97	87.76	100.90
1	6n	229	ARG	NE-CZ-NH2	5.97	124.57	119.20
1	6N	147	PRO	N-CA-CB	-5.97	96.98	103.25
1	72	169	TYR	CB-CG-CD2	5.97	129.76	120.80
1	7c	49	PRO	CB-CA-C	5.97	121.41	111.56
1	7y	197	ASP	CA-C-O	5.97	126.75	120.42
1	7J	42	ALA	CA-C-N	5.97	131.75	122.49
1	7J	42	ALA	C-N-CA	5.97	131.75	122.49
1	8k	209	ALA	O-C-N	-5.97	115.68	122.97
1	8r	144	MET	N-CA-C	5.97	118.56	111.33
1	8y	212	GLU	O-C-N	-5.97	115.79	122.12
1	8Y	124	ILE	O-C-N	-5.97	117.31	121.55
1	8Z	103	ASP	N-CA-C	5.97	118.58	111.71
1	9c	173	ARG	N-CA-C	5.97	117.79	111.28
1	9d	194	ALA	N-CA-C	5.97	123.52	110.80
1	9f	117	TRP	CB-CG-CD2	-5.97	118.44	126.80
1	9r	211	LEU	N-CA-C	5.97	118.58	111.71
1	9G	139	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	9R	26	VAL	CA-C-N	5.97	128.64	120.46
1	9R	26	VAL	C-N-CA	5.97	128.64	120.46
1	10	43	LEU	N-CA-CB	5.97	118.90	110.12
1	al	135	ILE	CA-CB-CG2	5.97	120.65	110.50
1	ap	168	PHE	CA-CB-CG	-5.97	107.83	113.80
1	12	12	HIS	O-C-N	-5.97	115.40	123.10
1	aA	185	MET	CG-SD-CE	-5.97	87.76	100.90
1	aZ	226	HIS	CA-CB-CG	-5.97	107.83	113.80
1	b8	23	TRP	CB-CA-C	5.97	120.36	110.81
1	b8	100	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	bo	219	GLN	CA-CB-CG	5.97	126.04	114.10
1	bC	228	ALA	N-CA-C	5.97	118.92	110.50
1	bM	111	LEU	CA-C-N	5.97	128.53	120.65
1	bM	111	LEU	C-N-CA	5.97	128.53	120.65
1	1b	140	LYS	O-C-N	-5.97	115.82	122.03
1	bZ	204	ALA	CA-C-N	5.97	128.20	120.44
1	bZ	204	ALA	C-N-CA	5.97	128.20	120.44
1	c4	218	CYS	CA-C-N	5.97	130.38	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c4	218	CYS	C-N-CA	5.97	130.38	121.72
1	cg	64	ALA	CA-C-O	5.97	126.75	120.42
1	cv	32	PHE	CA-CB-CG	-5.97	107.83	113.80
1	cR	143	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	d8	110	THR	CA-C-N	5.97	128.56	120.38
1	d8	110	THR	C-N-CA	5.97	128.56	120.38
1	dh	50	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	dm	143	ARG	O-C-N	-5.97	115.23	122.22
1	dn	120	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	dA	53	ASN	CA-C-O	5.97	126.88	120.55
1	dG	137	GLY	O-C-N	-5.97	116.46	122.19
1	1o	21	ASN	CA-C-N	5.97	128.20	120.44
1	1o	21	ASN	C-N-CA	5.97	128.20	120.44
1	er	133	TRP	CB-CG-CD1	5.97	135.86	126.90
1	ez	26	VAL	N-CA-CB	5.97	117.54	110.55
1	eD	33	SER	CB-CA-C	5.97	118.30	109.22
1	eP	227	LYS	N-CA-C	5.97	118.37	109.59
1	eX	209	ALA	CA-C-N	5.97	129.77	120.75
1	eX	209	ALA	C-N-CA	5.97	129.77	120.75
1	eZ	80	TRP	CA-C-N	5.97	128.60	120.54
1	eZ	80	TRP	C-N-CA	5.97	128.60	120.54
1	f6	4	GLN	CA-C-O	5.97	127.74	120.57
1	f7	178	SER	N-CA-C	5.97	118.41	110.53
1	fQ	115	ILE	CA-C-N	5.97	126.61	119.98
1	fQ	115	ILE	C-N-CA	5.97	126.61	119.98
1	fY	226	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	g1	223	GLY	CA-C-N	5.97	127.31	119.84
1	g1	223	GLY	C-N-CA	5.97	127.31	119.84
1	b	29	GLU	CA-C-O	5.97	125.47	118.90
1	p	177	ALA	CA-C-O	-5.97	114.62	121.19
1	W	195	ASN	CB-CG-ND2	-5.97	107.44	116.40
1	7	122	PRO	N-CA-CB	5.97	109.17	102.60
1	g8	187	GLU	CA-C-N	5.97	128.56	120.44
1	g8	187	GLU	C-N-CA	5.97	128.56	120.44
1	gt	74	ASN	CA-CB-CG	-5.97	106.63	112.60
1	gV	101	GLY	CA-C-N	5.97	128.88	120.28
1	gV	101	GLY	C-N-CA	5.97	128.88	120.28
1	hy	182	LYS	CA-C-N	5.97	128.28	120.28
1	hy	182	LYS	C-N-CA	5.97	128.28	120.28
1	1M	150	ILE	CA-C-O	5.97	124.15	118.90
1	i7	168	PHE	N-CA-C	5.97	117.79	111.28
1	ib	148	THR	N-CA-C	5.97	119.14	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ie	107	THR	CA-CB-CG2	5.97	120.65	110.50
1	ik	141	ILE	N-CA-CB	5.97	121.58	110.77
1	iP	12	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	iQ	199	LYS	CA-C-N	5.97	128.77	120.29
1	iQ	199	LYS	C-N-CA	5.97	128.77	120.29
1	1Z	41	SER	O-C-N	-5.97	115.88	122.09
1	k0	2	ILE	N-CA-C	5.97	117.38	108.54
1	k9	123	PRO	CB-CA-C	-5.97	103.75	111.39
1	kW	50	GLN	CA-C-O	-5.97	114.22	120.55
1	ld	119	THR	CA-CB-OG1	5.97	118.56	109.60
1	lH	226	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	2e	54	THR	CA-C-O	5.97	126.75	120.42
1	2r	142	VAL	N-CA-C	5.97	116.15	110.42
1	3s	218	CYS	N-CA-C	5.97	119.34	111.28
1	3t	51	ASP	CA-C-N	5.97	128.28	120.28
1	3t	51	ASP	C-N-CA	5.97	128.28	120.28
1	3Z	165	VAL	CA-C-O	5.97	127.16	120.95
1	4G	36	VAL	O-C-N	-5.97	115.68	121.83
1	4S	190	LEU	O-C-N	-5.97	115.79	122.12
1	5C	131	LYS	O-C-N	-5.97	115.79	122.12
1	5S	203	LYS	CA-C-N	5.97	128.28	120.28
1	5S	203	LYS	C-N-CA	5.97	128.28	120.28
1	62	22	ALA	O-C-N	5.97	128.24	122.03
1	65	4	GLN	CG-CD-NE2	5.97	125.36	116.40
1	6g	162	ARG	O-C-N	5.97	129.21	122.22
1	6s	64	ALA	CA-C-N	5.97	128.60	120.54
1	6s	64	ALA	C-N-CA	5.97	128.60	120.54
1	7h	176	GLN	CA-C-N	5.97	129.77	120.75
1	7h	176	GLN	C-N-CA	5.97	129.77	120.75
1	86	89	GLY	CA-C-N	5.97	127.30	119.84
1	86	89	GLY	C-N-CA	5.97	127.30	119.84
1	91	161	PHE	CB-CA-C	5.97	120.70	110.79
1	97	92	GLU	O-C-N	5.97	128.19	121.32
1	9a	115	ILE	CA-C-N	5.97	126.57	119.94
1	9a	115	ILE	C-N-CA	5.97	126.57	119.94
1	9o	203	LYS	CA-C-O	5.97	125.96	119.15
1	9C	149	SER	O-C-N	-5.97	116.04	122.85
1	9F	226	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	a4	175	GLU	N-CA-C	5.97	119.00	110.10
1	a9	13	GLN	CA-C-N	5.97	129.32	120.90
1	a9	13	GLN	C-N-CA	5.97	129.32	120.90
1	ai	66	MET	N-CA-C	5.97	117.79	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b0	157	PRO	N-CA-CB	5.97	109.85	103.52
1	br	91	ILE	CA-C-N	5.97	131.00	121.62
1	br	91	ILE	C-N-CA	5.97	131.00	121.62
1	bv	84	HIS	CA-C-O	-5.97	114.22	121.15
1	c6	120	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	cr	226	HIS	N-CA-CB	5.97	120.98	111.91
1	cC	119	THR	O-C-N	-5.97	115.14	122.25
1	cN	224	PRO	N-CA-CB	5.97	108.55	103.35
1	d1	136	LEU	CA-C-N	5.97	126.74	119.99
1	d1	136	LEU	C-N-CA	5.97	126.74	119.99
1	d3	184	TRP	N-CA-C	5.97	117.79	111.28
1	d5	82	ARG	NE-CZ-NH2	5.97	124.57	119.20
1	dx	153	ILE	N-CA-C	5.97	117.74	109.80
1	dB	44	SER	N-CA-C	5.97	120.58	112.88
1	e4	179	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	e8	143	ARG	CA-C-N	5.97	128.56	120.44
1	e8	143	ARG	C-N-CA	5.97	128.56	120.44
1	ee	103	ASP	CA-C-N	5.97	128.08	120.56
1	ee	103	ASP	C-N-CA	5.97	128.08	120.56
1	eA	39	MET	CG-SD-CE	-5.97	87.76	100.90
1	eX	229	ARG	NE-CZ-NH2	-5.97	113.83	119.20
1	fl	26	VAL	CA-C-N	5.97	128.08	120.56
1	fl	26	VAL	C-N-CA	5.97	128.08	120.56
1	fv	117	TRP	CD2-CE2-CZ2	-5.97	116.43	122.40
1	fy	154	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
1	fR	202	LEU	N-CA-C	5.97	118.58	111.71
1	g4	58	THR	N-CA-CB	5.97	119.42	110.22
1	f	141	ILE	CA-C-N	5.97	128.64	120.46
1	f	141	ILE	C-N-CA	5.97	128.64	120.46
1	8	184	TRP	CA-C-O	5.97	126.85	120.70
1	gi	11	VAL	CA-C-O	5.97	126.60	120.39
1	gs	120	HIS	CB-CG-CD2	-5.97	123.44	131.20
1	gs	155	GLN	N-CA-C	5.97	118.66	110.24
1	gJ	62	HIS	CB-CG-CD2	-5.97	123.44	131.20
1	gX	2	ILE	O-C-N	-5.97	116.12	123.10
1	h1	167	ARG	N-CA-C	5.97	117.79	111.28
1	h7	104	ILE	CA-C-O	5.97	126.92	120.47
1	hg	14	ALA	N-CA-C	5.97	117.75	110.41
1	hv	120	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	hv	120	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	hC	67	GLN	CA-C-O	5.97	126.75	120.42
1	hJ	26	VAL	CA-C-O	5.97	127.10	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i1	212	GLU	CA-C-N	5.97	128.28	120.28
1	i1	212	GLU	C-N-CA	5.97	128.28	120.28
1	i2	146	SER	N-CA-C	5.97	116.47	109.60
1	i6	103	ASP	O-C-N	-5.97	115.79	122.12
1	iN	146	SER	N-CA-C	5.97	116.46	109.60
1	iO	200	THR	CA-C-O	5.97	126.88	120.55
1	iT	81	ASP	CA-C-N	5.97	128.28	120.28
1	iT	81	ASP	C-N-CA	5.97	128.28	120.28
1	iV	173	ARG	CD-NE-CZ	-5.97	116.04	124.40
1	iY	7	GLN	N-CA-C	-5.97	98.08	110.80
1	iZ	152	ASP	N-CA-C	-5.97	106.00	113.28
1	j1	226	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	1T	183	ASN	N-CA-C	5.97	117.79	111.28
1	1T	210	THR	N-CA-CB	5.97	120.01	110.46
1	jr	27	VAL	N-CA-C	5.97	116.71	110.62
1	jF	32	PHE	CA-CB-CG	-5.97	107.83	113.80
1	jH	173	ARG	CA-C-O	-5.97	114.22	120.55
1	jK	16	SER	O-C-N	-5.97	114.75	121.43
1	k6	212	GLU	O-C-N	-5.97	115.34	122.15
1	ka	85	PRO	CA-C-O	-5.97	114.74	121.43
1	kc	230	VAL	CA-C-O	5.97	127.76	120.84
1	kt	74	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	22	142	VAL	CA-CB-CG2	5.97	120.55	110.40
1	kH	54	THR	O-C-N	-5.97	115.64	122.09
1	24	206	GLY	O-C-N	-5.97	115.80	121.77
1	kR	223	GLY	CA-C-N	5.97	126.91	119.98
1	kR	223	GLY	C-N-CA	5.97	126.91	119.98
1	l4	195	ASN	N-CA-C	5.97	117.41	109.83
1	l6	203	LYS	N-CA-CB	-5.97	101.34	110.12
1	l9	55	MET	N-CA-C	5.97	117.79	111.28
1	lm	126	VAL	CA-CB-CG2	5.97	120.55	110.40
1	lt	181	VAL	CA-C-N	5.97	128.28	120.28
1	lt	181	VAL	C-N-CA	5.97	128.28	120.28
1	lR	203	LYS	N-CA-C	5.97	117.79	111.28
1	2c	164	TYR	CB-CG-CD1	5.97	129.75	120.80
1	2i	19	THR	CA-C-O	-5.97	114.18	120.63
1	2j	129	ILE	CB-CA-C	-5.97	104.08	112.14
1	2o	14	ALA	CA-C-O	-5.97	115.22	121.55
1	2G	199	LYS	CA-C-N	5.97	130.68	121.19
1	2G	199	LYS	C-N-CA	5.97	130.68	121.19
1	2I	5	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	2I	203	LYS	CA-C-N	5.97	128.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2I	203	LYS	C-N-CA	5.97	128.56	120.44
1	2R	76	GLU	N-CA-C	5.97	117.46	111.07
1	2W	82	ARG	CA-C-O	5.97	126.75	120.42
1	2X	189	LEU	CA-C-N	5.97	128.28	120.28
1	2X	189	LEU	C-N-CA	5.97	128.28	120.28
1	3a	7	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	3a	154	ARG	CD-NE-CZ	-5.97	116.04	124.40
1	3r	181	VAL	N-CA-C	5.97	116.71	110.62
1	3C	148	THR	N-CA-CB	5.97	118.77	110.17
1	3O	120	HIS	CB-CG-CD2	-5.97	123.44	131.20
1	43	126	VAL	O-C-N	-5.97	115.87	121.90
1	4g	62	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	4m	193	ASN	CA-C-N	5.97	131.30	121.39
1	4m	193	ASN	C-N-CA	5.97	131.30	121.39
1	4q	48	THR	O-C-N	-5.97	115.27	121.60
1	4t	22	ALA	CA-C-N	5.97	128.20	120.44
1	4t	22	ALA	C-N-CA	5.97	128.20	120.44
1	4y	212	GLU	N-CA-CB	-5.97	101.04	109.94
1	4J	204	ALA	N-CA-C	5.97	118.55	111.33
1	4V	62	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	4X	41	SER	O-C-N	-5.97	115.79	122.12
1	58	220	GLY	N-CA-C	-5.97	103.65	114.46
1	59	79	GLU	CA-C-O	5.97	126.88	120.55
1	5h	120	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	5j	101	GLY	N-CA-C	-5.97	105.13	112.77
1	5l	229	ARG	CA-C-O	-5.97	115.50	122.37
1	5o	120	HIS	O-C-N	-5.97	115.47	122.81
1	5q	187	GLU	N-CA-C	5.97	119.03	111.69
1	5z	112	GLN	CB-CA-C	5.97	120.25	110.88
1	5A	26	VAL	N-CA-C	-5.97	104.92	110.53
1	5Q	24	VAL	O-C-N	-5.97	116.06	121.91
1	6t	202	LEU	CA-C-N	5.97	128.20	120.44
1	6t	202	LEU	C-N-CA	5.97	128.20	120.44
1	6A	22	ALA	N-CA-C	5.97	117.79	111.28
1	6E	127	GLY	CA-C-N	5.97	128.28	120.28
1	6E	127	GLY	C-N-CA	5.97	128.28	120.28
1	6M	138	LEU	N-CA-CB	5.97	118.89	110.12
1	6P	173	ARG	CA-C-O	5.97	126.88	120.55
1	7a	19	THR	O-C-N	-5.97	115.79	122.12
1	7t	182	LYS	N-CA-C	5.97	118.27	111.11
1	7w	120	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	7K	58	THR	N-CA-CB	5.97	118.90	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	33	SER	CA-C-O	-5.97	114.64	120.19
1	85	179	GLN	N-CA-C	5.97	118.27	111.11
1	8H	180	GLU	N-CA-CB	-5.97	101.34	110.12
1	91	84	HIS	CA-CB-CG	-5.97	107.83	113.80
1	9I	115	ILE	N-CA-C	5.97	117.42	110.62
1	9L	42	ALA	CA-C-O	5.97	126.89	120.20
1	9N	103	ASP	CA-CB-CG	5.97	118.57	112.60
1	Z	155	GLN	N-CA-CB	5.97	118.47	109.34
1	a7	175	GLU	N-CA-C	5.97	118.47	110.35
1	aj	230	VAL	N-CA-C	5.97	119.21	109.78
1	ak	142	VAL	N-CA-C	5.97	116.71	110.62
1	aY	97	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	b3	91	ILE	CA-CB-CG1	5.97	120.55	110.40
1	bz	36	VAL	CA-C-N	5.97	133.18	122.13
1	bz	36	VAL	C-N-CA	5.97	133.18	122.13
1	bP	113	GLU	N-CA-C	5.97	117.79	111.28
1	bY	23	TRP	CB-CG-CD2	5.97	135.16	126.80
1	cg	128	GLU	N-CA-C	5.97	117.87	111.36
1	cs	186	THR	O-C-N	-5.97	114.43	122.43
1	cA	80	TRP	O-C-N	-5.97	115.88	122.09
1	cG	70	LYS	CA-C-O	5.97	126.88	120.55
1	cT	68	MET	N-CA-C	5.97	117.79	111.28
1	cZ	132	ARG	CA-C-O	5.97	126.88	120.55
1	dn	17	PRO	N-CA-C	-5.97	106.40	113.86
1	dt	38	PRO	CA-C-N	5.97	128.20	120.44
1	dt	38	PRO	C-N-CA	5.97	128.20	120.44
1	du	160	PRO	N-CA-CB	-5.97	98.31	103.32
1	dz	169	TYR	O-C-N	-5.97	115.79	122.12
1	dD	137	GLY	CA-C-N	5.97	128.77	120.29
1	dD	137	GLY	C-N-CA	5.97	128.77	120.29
1	e3	184	TRP	CG-CD2-CE3	-5.97	127.93	133.90
1	es	182	LYS	CA-C-O	5.97	127.09	120.82
1	ew	95	GLN	CA-C-N	5.97	129.76	120.75
1	ew	95	GLN	C-N-CA	5.97	129.76	120.75
1	ez	132	ARG	CA-C-O	5.97	127.09	120.82
1	eB	39	MET	CG-SD-CE	-5.97	87.77	100.90
1	1x	149	SER	N-CA-CB	5.97	119.20	109.95
1	fM	50	GLN	CA-C-N	5.97	128.77	120.29
1	fM	50	GLN	C-N-CA	5.97	128.77	120.29
1	e	195	ASN	O-C-N	-5.97	115.27	121.60
1	1	81	ASP	N-CA-C	5.97	117.79	111.28
1	1	93	PRO	N-CA-C	5.97	120.58	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	133	TRP	CA-C-N	5.97	128.08	120.56
1	k	133	TRP	C-N-CA	5.97	128.08	120.56
1	p	115	ILE	CA-C-N	5.97	126.74	119.99
1	p	115	ILE	C-N-CA	5.97	126.74	119.99
1	4	140	LYS	O-C-N	-5.97	115.79	122.12
1	O	62	HIS	O-C-N	-5.97	115.81	122.91
1	U	160	PRO	O-C-N	-5.97	115.72	123.00
1	6	152	ASP	N-CA-CB	5.97	119.13	110.65
1	1E	89	GLY	CA-C-O	-5.97	115.35	121.62
1	gO	171	THR	CA-C-N	5.97	128.20	120.44
1	gO	171	THR	C-N-CA	5.97	128.20	120.44
1	gQ	189	LEU	N-CA-C	5.97	117.78	111.28
1	he	135	ILE	CA-C-N	5.97	128.60	120.54
1	he	135	ILE	C-N-CA	5.97	128.60	120.54
1	1L	87	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	ig	113	GLU	N-CA-CB	5.97	118.89	110.12
1	1Q	132	ARG	CA-C-O	-5.97	114.51	120.90
1	iG	199	LYS	N-CA-C	5.97	117.46	111.07
1	1S	20	LEU	N-CA-CB	5.97	118.72	110.07
1	iS	31	ALA	O-C-N	-5.97	114.65	122.59
1	iU	55	MET	CA-C-O	5.97	126.88	120.55
1	j1	121	ASN	CA-CB-CG	-5.97	106.63	112.60
1	j2	160	PRO	O-C-N	-5.97	115.31	122.89
1	j4	112	GLN	N-CA-CB	5.97	119.41	110.22
1	jc	162	ARG	N-CA-C	5.97	118.30	111.02
1	jm	26	VAL	N-CA-C	5.97	116.15	110.42
1	ju	108	THR	CA-CB-OG1	5.97	118.55	109.60
1	1W	162	ARG	CA-C-O	5.97	126.88	120.55
1	jx	4	GLN	N-CA-CB	5.97	119.20	109.95
1	1Y	124	ILE	CA-C-O	-5.97	111.95	119.95
1	20	55	MET	N-CA-C	5.97	117.47	110.97
1	km	126	VAL	N-CA-CB	5.97	117.93	110.47
1	ks	103	ASP	N-CA-C	5.97	117.58	111.14
1	kQ	209	ALA	CA-C-N	5.97	129.18	120.71
1	kQ	209	ALA	C-N-CA	5.97	129.18	120.71
1	25	185	MET	N-CA-CB	5.97	119.41	110.22
1	lb	67	GLN	CA-C-N	5.97	128.20	120.44
1	lb	67	GLN	C-N-CA	5.97	128.20	120.44
1	lJ	78	ALA	O-C-N	-5.97	115.92	122.07
1	2m	106	GLY	O-C-N	-5.97	114.81	122.39
1	2t	132	ARG	CA-C-N	5.97	128.28	120.28
1	2t	132	ARG	C-N-CA	5.97	128.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2w	140	LYS	CA-C-O	-5.97	114.55	120.82
1	3h	119	THR	N-CA-C	5.97	120.18	113.02
1	3O	23	TRP	O-C-N	-5.97	115.64	122.09
1	44	225	GLY	CA-C-N	5.97	132.94	121.54
1	44	225	GLY	C-N-CA	5.97	132.94	121.54
1	5w	221	VAL	N-CA-CB	5.97	121.24	111.45
1	5K	63	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	5P	213	GLU	CA-C-N	5.97	128.28	120.28
1	5P	213	GLU	C-N-CA	5.97	128.28	120.28
1	64	115	ILE	O-C-N	-5.97	116.08	121.87
1	64	162	ARG	CA-C-N	5.97	128.28	120.28
1	64	162	ARG	C-N-CA	5.97	128.28	120.28
1	6s	143	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	6C	89	GLY	N-CA-C	5.97	119.16	112.00
1	6L	88	ALA	O-C-N	-5.97	115.97	123.01
1	6L	203	LYS	N-CA-C	5.97	117.86	111.36
1	6Q	156	GLY	CA-C-N	5.97	125.67	119.05
1	6Q	156	GLY	C-N-CA	5.97	125.67	119.05
1	6T	144	MET	CG-SD-CE	-5.97	87.77	100.90
1	78	167	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	7o	100	ARG	NE-CZ-NH2	5.97	124.57	119.20
1	7J	141	ILE	O-C-N	-5.97	116.06	121.91
1	7O	106	GLY	O-C-N	-5.97	114.95	122.41
1	7V	47	ALA	N-CA-C	5.97	118.46	108.73
1	8b	5	ASN	CA-C-N	5.97	132.94	121.54
1	8b	5	ASN	C-N-CA	5.97	132.94	121.54
1	8k	159	GLU	CA-C-O	5.97	123.74	119.32
1	8A	121	ASN	CA-CB-CG	5.97	118.57	112.60
1	8X	173	ARG	N-CA-C	5.97	117.46	111.07
1	93	187	GLU	N-CA-C	5.97	117.59	111.14
1	95	178	SER	CA-C-O	5.97	127.89	121.44
1	9D	180	GLU	CB-CG-CD	-5.97	102.45	112.60
1	9M	175	GLU	CB-CA-C	5.97	118.75	110.16
1	ad	152	ASP	N-CA-CB	-5.97	101.82	110.47
1	aM	24	VAL	CA-C-O	5.97	127.16	120.95
1	bF	229	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	bM	141	ILE	CA-C-N	5.97	128.08	120.56
1	bM	141	ILE	C-N-CA	5.97	128.08	120.56
1	bW	136	LEU	N-CA-CB	-5.97	101.35	110.12
1	cc	213	GLU	N-CA-C	-5.97	104.78	111.28
1	cp	194	ALA	N-CA-CB	5.97	118.76	110.17
1	cz	132	ARG	NE-CZ-NH1	5.97	127.47	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cC	44	SER	O-C-N	-5.97	115.01	122.35
1	cC	164	TYR	CA-C-N	5.97	128.64	120.46
1	cC	164	TYR	C-N-CA	5.97	128.64	120.46
1	1g	208	ALA	O-C-N	-5.97	115.18	122.34
1	cS	167	ARG	CD-NE-CZ	-5.97	116.04	124.40
1	d5	156	GLY	N-CA-C	5.97	119.44	112.10
1	dc	184	TRP	CA-CB-CG	5.97	124.94	113.60
1	1k	112	GLN	N-CA-C	5.97	117.78	111.28
1	du	167	ARG	NE-CZ-NH1	5.97	127.47	121.50
1	dI	88	ALA	N-CA-CB	-5.97	101.33	110.16
1	dU	205	LEU	N-CA-CB	5.97	118.89	110.12
1	eN	69	LEU	CB-CA-C	-5.97	101.51	110.88
1	eX	136	LEU	N-CA-C	5.97	117.78	111.28
1	fd	120	HIS	CA-CB-CG	5.97	119.77	113.80
1	fe	69	LEU	CA-C-O	5.97	127.09	120.82
1	fm	43	LEU	N-CA-C	5.97	117.79	111.28
1	fn	91	ILE	O-C-N	-5.97	116.17	122.68
1	fC	33	SER	CA-C-O	-5.97	114.25	120.87
1	fG	37	ILE	CB-CA-C	5.97	119.37	113.70
1	u	221	VAL	CB-CA-C	5.97	119.85	111.08
1	g9	72	THR	N-CA-CB	5.97	118.66	110.01
1	gc	87	HIS	CA-CB-CG	5.97	119.77	113.80
1	gh	159	GLU	CA-C-N	5.97	125.88	119.85
1	gh	159	GLU	C-N-CA	5.97	125.88	119.85
1	gm	23	TRP	CA-C-O	-5.97	114.23	120.55
1	gs	2	ILE	N-CA-CB	5.97	119.36	111.25
1	gy	112	GLN	N-CA-C	5.97	117.78	111.28
1	hc	179	GLN	OE1-CD-NE2	5.97	128.57	122.60
1	hx	87	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	hD	4	GLN	OE1-CD-NE2	-5.97	116.63	122.60
1	hH	82	ARG	O-C-N	-5.97	115.80	122.12
1	hI	223	GLY	CA-C-N	5.97	127.30	119.84
1	hI	223	GLY	C-N-CA	5.97	127.30	119.84
1	hT	168	PHE	CB-CA-C	5.97	120.25	110.88
1	i4	218	CYS	CA-C-N	5.97	129.38	120.31
1	i4	218	CYS	C-N-CA	5.97	129.38	120.31
1	i9	121	ASN	CA-CB-CG	5.97	118.57	112.60
1	ia	146	SER	CB-CA-C	5.97	116.51	109.47
1	in	14	ALA	O-C-N	-5.97	115.82	122.86
1	iz	43	LEU	N-CA-C	5.97	119.75	112.23
1	iP	177	ALA	N-CA-C	5.97	118.25	110.43
1	iX	12	HIS	CE1-NE2-CD2	-5.97	103.03	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	73	ILE	N-CA-CB	5.97	121.57	110.77
1	jK	21	ASN	OD1-CG-ND2	5.97	128.57	122.60
1	jQ	99	PRO	N-CA-C	5.97	120.60	111.11
1	1Z	128	GLU	CA-C-N	5.97	128.08	120.56
1	1Z	128	GLU	C-N-CA	5.97	128.08	120.56
1	k0	60	GLY	O-C-N	-5.97	114.94	122.70
1	kf	137	GLY	CA-C-O	5.97	126.49	119.45
1	ky	80	TRP	N-CA-C	5.97	117.45	111.07
1	kR	112	GLN	N-CA-CB	5.97	118.66	110.01
1	li	226	HIS	CG-CD2-NE2	5.97	113.17	107.20
1	lq	87	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	lr	56	LEU	N-CA-C	5.97	118.74	111.82
1	2p	159	GLU	CA-C-N	5.97	127.30	119.84
1	2p	159	GLU	C-N-CA	5.97	127.30	119.84
1	2s	124	ILE	O-C-N	-5.97	116.81	121.46
1	2C	102	SER	O-C-N	-5.97	115.89	122.09
1	2X	212	GLU	N-CA-C	5.97	118.27	111.11
1	30	16	SER	CA-C-O	-5.97	114.49	120.64
1	35	24	VAL	CA-C-N	5.97	128.76	120.29
1	35	24	VAL	C-N-CA	5.97	128.76	120.29
1	3r	173	ARG	O-C-N	-5.97	115.80	122.12
1	3I	13	GLN	CA-C-N	5.97	130.03	121.50
1	3I	13	GLN	C-N-CA	5.97	130.03	121.50
1	4r	87	HIS	ND1-CE1-NE2	5.97	114.37	108.40
1	4C	71	GLU	CA-C-O	5.97	126.87	120.55
1	4C	87	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	4D	91	ILE	N-CA-C	5.97	121.75	109.34
1	51	66	MET	N-CA-C	5.97	117.78	111.28
1	5g	21	ASN	CA-CB-CG	5.97	118.57	112.60
1	5w	182	LYS	CA-C-O	5.97	126.88	120.55
1	5S	122	PRO	N-CA-CB	5.97	109.16	102.60
1	6x	166	ASP	CA-CB-CG	-5.97	106.63	112.60
1	6J	205	LEU	CA-C-N	5.97	131.24	121.87
1	6J	205	LEU	C-N-CA	5.97	131.24	121.87
1	7n	9	GLN	CA-C-N	5.97	130.87	121.56
1	7n	9	GLN	C-N-CA	5.97	130.87	121.56
1	7u	31	ALA	N-CA-C	5.97	116.83	108.00
1	7A	150	ILE	N-CA-C	5.97	119.40	111.17
1	7E	195	ASN	O-C-N	5.97	126.61	121.30
1	81	165	VAL	CA-C-N	5.97	128.28	120.28
1	81	165	VAL	C-N-CA	5.97	128.28	120.28
1	87	178	SER	N-CA-C	5.97	118.46	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8l	44	SER	N-CA-C	5.97	120.42	113.20
1	8J	13	GLN	CA-C-N	5.97	130.60	122.19
1	8J	13	GLN	C-N-CA	5.97	130.60	122.19
1	8K	197	ASP	CA-CB-CG	5.97	118.57	112.60
1	8W	67	GLN	CB-CG-CD	5.97	122.74	112.60
1	95	17	PRO	N-CA-C	-5.97	105.89	114.18
1	99	226	HIS	CE1-NE2-CD2	-5.97	103.03	109.00
1	9f	124	ILE	CA-C-O	-5.97	114.72	119.25
1	9B	127	GLY	CA-C-N	5.97	128.27	120.28
1	9B	127	GLY	C-N-CA	5.97	128.27	120.28
1	9C	82	ARG	N-CA-C	5.97	117.45	111.07
1	9M	126	VAL	O-C-N	-5.97	115.97	121.94
1	9V	140	LYS	CA-C-O	5.97	126.74	120.42
1	af	44	SER	N-CA-C	5.97	120.56	113.28
1	ap	117	TRP	CA-C-O	-5.97	114.22	120.55
1	aC	81	ASP	O-C-N	-5.97	115.24	122.22
1	aC	186	THR	CA-C-O	5.97	126.84	120.70
1	aI	173	ARG	N-CA-C	5.97	117.45	111.07
1	aP	92	GLU	CA-C-O	-5.97	114.49	120.64
1	bw	152	ASP	N-CA-CB	-5.97	101.60	110.61
1	bL	143	ARG	N-CA-C	5.97	117.45	111.07
1	bR	103	ASP	O-C-N	5.97	129.61	122.27
1	bW	110	THR	N-CA-CB	5.97	118.89	110.36
1	cz	5	ASN	OD1-CG-ND2	-5.97	116.63	122.60
1	cF	154	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
1	cF	184	TRP	CB-CA-C	5.97	120.69	110.79
1	cW	148	THR	CA-CB-OG1	5.97	118.55	109.60
1	cX	109	SER	N-CA-C	-5.97	100.46	109.95
1	dg	138	LEU	CA-C-N	5.97	128.27	120.28
1	dg	138	LEU	C-N-CA	5.97	128.27	120.28
1	dm	115	ILE	CA-C-N	5.97	126.60	119.98
1	dm	115	ILE	C-N-CA	5.97	126.60	119.98
1	do	207	PRO	CA-C-O	-5.97	111.09	119.74
1	dv	93	PRO	N-CA-CB	5.97	109.51	103.25
1	dF	2	ILE	CB-CA-C	-5.97	102.19	111.26
1	dF	142	VAL	CA-C-O	5.97	127.16	120.95
1	dS	105	ALA	CA-C-O	5.97	126.94	119.12
1	e2	199	LYS	N-CA-C	5.97	117.78	111.28
1	ed	211	LEU	CA-C-O	5.97	127.17	119.95
1	f6	197	ASP	CA-CB-CG	5.97	118.57	112.60
1	fe	22	ALA	CA-C-N	5.97	128.76	120.29
1	fe	22	ALA	C-N-CA	5.97	128.76	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fg	166	ASP	CB-CA-C	5.97	120.25	110.88
1	fj	192	GLN	OE1-CD-NE2	5.97	128.57	122.60
1	fo	185	MET	N-CA-C	5.97	117.78	111.28
1	fr	32	PHE	N-CA-CB	5.97	118.89	110.24
1	fv	108	THR	N-CA-CB	5.97	119.27	110.56
1	fv	136	LEU	N-CA-C	5.97	117.78	111.28
1	fw	42	ALA	N-CA-C	5.97	117.86	111.36
1	fy	169	TYR	N-CA-C	5.97	119.82	112.54
1	fE	207	PRO	CA-C-O	-5.97	111.64	118.38
1	fM	129	ILE	O-C-N	-5.97	116.06	121.91
1	fP	67	GLN	N-CA-CB	-5.97	101.03	110.28
1	fV	103	ASP	CA-C-N	5.97	128.63	120.46
1	fV	103	ASP	C-N-CA	5.97	128.63	120.46
1	fZ	27	VAL	O-C-N	-5.97	113.96	121.84
1	j	7	GLN	N-CA-C	5.97	118.88	110.23
1	B	195	ASN	CA-C-O	-5.97	114.31	120.87
1	4	62	HIS	CG-CD2-NE2	5.97	113.17	107.20
1	5	10	MET	CB-CA-C	-5.97	101.06	110.85
1	1C	146	SER	N-CA-C	5.96	121.63	113.16
1	go	84	HIS	CA-C-N	5.96	126.27	119.83
1	go	84	HIS	C-N-CA	5.96	126.27	119.83
1	gC	44	SER	N-CA-CB	5.96	118.79	110.56
1	gS	165	VAL	CA-CB-CG2	-5.96	100.26	110.40
1	gZ	16	SER	O-C-N	-5.96	115.83	121.20
1	hg	223	GLY	O-C-N	-5.96	115.81	121.77
1	hh	36	VAL	CA-CB-CG1	5.96	120.54	110.40
1	hy	19	THR	CA-C-N	5.96	128.27	120.28
1	hy	19	THR	C-N-CA	5.96	128.27	120.28
1	hD	58	THR	N-CA-C	5.96	120.03	112.87
1	hI	78	ALA	CA-C-N	5.96	128.76	120.29
1	hI	78	ALA	C-N-CA	5.96	128.76	120.29
1	hT	132	ARG	N-CA-C	5.96	117.86	111.36
1	i1	214	MET	N-CA-C	5.96	117.86	111.36
1	i9	126	VAL	O-C-N	-5.96	116.08	121.87
1	if	68	MET	N-CA-C	5.96	117.78	111.28
1	io	114	GLN	CA-C-N	5.96	128.63	120.46
1	io	114	GLN	C-N-CA	5.96	128.63	120.46
1	iC	205	LEU	N-CA-C	5.96	117.78	111.28
1	iI	29	GLU	N-CA-C	-5.96	105.58	112.92
1	iO	110	THR	CA-C-O	5.96	128.06	121.56
1	iQ	161	PHE	CA-C-N	5.96	128.55	120.38
1	iQ	161	PHE	C-N-CA	5.96	128.55	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iX	127	GLY	CA-C-N	5.96	128.27	120.28
1	iX	127	GLY	C-N-CA	5.96	128.27	120.28
1	jb	35	GLU	N-CA-C	5.96	120.17	113.01
1	je	145	TYR	CA-C-N	5.96	128.25	120.26
1	je	145	TYR	C-N-CA	5.96	128.25	120.26
1	jq	28	GLU	CA-C-O	-5.96	114.56	120.82
1	jC	95	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	jY	81	ASP	CB-CA-C	5.96	120.69	110.79
1	jZ	134	ILE	CA-C-O	5.96	126.95	120.57
1	ke	5	ASN	N-CA-CB	-5.96	100.82	109.83
1	kU	22	ALA	N-CA-C	5.96	117.78	111.28
1	kU	230	VAL	CA-C-O	5.96	126.70	119.54
1	lj	183	ASN	CA-CB-CG	-5.96	106.64	112.60
1	lq	181	VAL	CA-C-N	5.96	128.55	120.44
1	lq	181	VAL	C-N-CA	5.96	128.55	120.44
1	lA	129	ILE	O-C-N	-5.96	116.08	121.87
1	lP	37	ILE	N-CA-C	5.96	119.51	112.35
1	2D	162	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	2P	133	TRP	CE3-CZ3-CH2	-5.96	113.35	121.10
1	2S	228	ALA	N-CA-C	5.96	119.87	111.52
1	2T	173	ARG	CA-C-N	5.96	128.55	120.44
1	2T	173	ARG	C-N-CA	5.96	128.55	120.44
1	3p	33	SER	N-CA-CB	5.96	117.36	111.10
1	3z	113	GLU	N-CA-C	5.96	117.78	111.28
1	3K	166	ASP	N-CA-C	5.96	118.27	111.11
1	3W	133	TRP	CG-CD2-CE3	-5.96	127.94	133.90
1	3X	226	HIS	CA-C-N	5.96	128.76	120.29
1	3X	226	HIS	C-N-CA	5.96	128.76	120.29
1	40	12	HIS	CE1-NE2-CD2	-5.96	103.03	109.00
1	4K	54	THR	CA-C-O	-5.96	114.56	120.82
1	4L	21	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	4T	100	ARG	O-C-N	-5.96	114.17	122.76
1	50	23	TRP	CZ3-CH2-CZ2	-5.96	113.75	121.50
1	56	122	PRO	CA-C-N	5.96	126.31	119.93
1	56	122	PRO	C-N-CA	5.96	126.31	119.93
1	59	114	GLN	CA-C-N	5.96	128.89	120.42
1	59	114	GLN	C-N-CA	5.96	128.89	120.42
1	5c	112	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	5m	84	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	5r	125	PRO	CA-C-N	5.96	128.63	120.46
1	5r	125	PRO	C-N-CA	5.96	128.63	120.46
1	5w	206	GLY	N-CA-C	5.96	124.51	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	54	THR	CA-C-O	5.96	126.84	120.70
1	5Q	15	ILE	O-C-N	-5.96	116.37	122.75
1	5T	163	ASP	N-CA-C	5.96	118.74	111.82
1	6c	29	GLU	CB-CA-C	5.96	118.69	109.03
1	6J	15	ILE	O-C-N	-5.96	116.15	122.83
1	6M	162	ARG	NE-CZ-NH2	5.96	124.57	119.20
1	6Y	106	GLY	CA-C-N	5.96	128.76	120.29
1	6Y	106	GLY	C-N-CA	5.96	128.76	120.29
1	7j	110	THR	O-C-N	-5.96	115.31	122.65
1	7l	170	LYS	N-CA-C	5.96	118.27	111.11
1	7u	37	ILE	CA-C-N	5.96	125.67	119.05
1	7u	37	ILE	C-N-CA	5.96	125.67	119.05
1	7J	144	MET	N-CA-C	5.96	117.78	111.28
1	85	66	MET	N-CA-C	5.96	117.45	111.07
1	88	44	SER	CB-CA-C	-5.96	100.64	110.72
1	8e	22	ALA	N-CA-CB	5.96	118.66	110.01
1	8g	29	GLU	CA-C-O	5.96	126.53	119.67
1	8E	132	ARG	NE-CZ-NH2	-5.96	113.83	119.20
1	8R	71	GLU	N-CA-CB	5.96	118.66	110.01
1	8V	87	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	99	51	ASP	CA-C-N	5.96	128.27	120.28
1	99	51	ASP	C-N-CA	5.96	128.27	120.28
1	9i	165	VAL	O-C-N	-5.96	115.69	121.83
1	9u	10	MET	N-CA-C	5.96	119.79	111.74
1	9B	29	GLU	N-CA-C	5.96	117.45	111.07
1	9M	167	ARG	N-CA-C	5.96	118.27	111.11
1	9W	5	ASN	N-CA-C	-5.96	105.66	113.17
1	9X	145	TYR	N-CA-C	5.96	119.61	112.93
1	9Z	120	HIS	CA-CB-CG	5.96	119.77	113.80
1	as	113	GLU	CA-C-N	5.96	128.19	120.44
1	as	113	GLU	C-N-CA	5.96	128.19	120.44
1	12	118	MET	N-CA-CB	-5.96	99.95	110.39
1	aA	87	HIS	CG-CD2-NE2	5.96	113.17	107.20
1	aM	133	TRP	CB-CG-CD1	5.96	135.85	126.90
1	aN	195	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	14	90	PRO	CB-CA-C	5.96	119.22	111.64
1	aY	11	VAL	O-C-N	-5.96	116.74	123.18
1	aY	76	GLU	CA-C-N	5.96	128.27	120.28
1	aY	76	GLU	C-N-CA	5.96	128.27	120.28
1	b0	227	LYS	CA-C-N	5.96	129.23	120.82
1	b0	227	LYS	C-N-CA	5.96	129.23	120.82
1	b4	135	ILE	O-C-N	-5.96	116.06	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	135	ILE	CA-C-N	5.96	128.27	120.28
1	bo	135	ILE	C-N-CA	5.96	128.27	120.28
1	bp	68	MET	O-C-N	-5.96	115.80	122.12
1	bu	121	ASN	O-C-N	-5.96	116.08	121.39
1	bF	182	LYS	CA-C-N	5.96	128.59	120.54
1	bF	182	LYS	C-N-CA	5.96	128.59	120.54
1	bT	111	LEU	O-C-N	-5.96	115.24	122.22
1	1c	60	GLY	CA-C-N	5.96	127.27	120.53
1	1c	60	GLY	C-N-CA	5.96	127.27	120.53
1	cb	80	TRP	O-C-N	-5.96	115.80	122.12
1	cd	98	GLU	O-C-N	-5.96	117.89	121.71
1	cg	169	TYR	N-CA-C	5.96	117.78	111.28
1	cu	179	GLN	O-C-N	-5.96	115.80	122.12
1	dg	12	HIS	CA-C-N	5.96	131.92	122.62
1	dg	12	HIS	C-N-CA	5.96	131.92	122.62
1	dv	48	THR	CA-C-N	5.96	125.64	119.56
1	dv	48	THR	C-N-CA	5.96	125.64	119.56
1	1o	87	HIS	CA-CB-CG	5.96	119.76	113.80
1	fc	195	ASN	CA-CB-CG	-5.96	106.64	112.60
1	fd	76	GLU	O-C-N	-5.96	114.93	122.27
1	fm	198	CYS	N-CA-C	5.96	117.45	111.07
1	fo	14	ALA	O-C-N	-5.96	115.47	122.81
1	fL	83	LEU	O-C-N	-5.96	115.35	122.15
1	1z	168	PHE	N-CA-C	5.96	117.78	111.28
1	fV	165	VAL	N-CA-C	5.96	118.51	111.05
1	i	58	THR	CA-CB-OG1	5.96	118.55	109.60
1	i	192	GLN	N-CA-CB	-5.96	101.35	110.12
1	Q	190	LEU	CA-C-N	5.96	130.09	120.55
1	Q	190	LEU	C-N-CA	5.96	130.09	120.55
1	gc	153	ILE	O-C-N	-5.96	116.19	122.81
1	h1	90	PRO	CA-C-N	5.96	131.16	121.62
1	h1	90	PRO	C-N-CA	5.96	131.16	121.62
1	hs	37	ILE	O-C-N	-5.96	116.60	120.42
1	hw	31	ALA	CA-C-N	-5.96	113.05	122.23
1	hw	31	ALA	C-N-CA	-5.96	113.05	122.23
1	hB	196	PRO	CA-C-N	5.96	128.19	120.44
1	hB	196	PRO	C-N-CA	5.96	128.19	120.44
1	i9	226	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	id	145	TYR	N-CA-C	5.96	118.36	109.59
1	ig	22	ALA	CA-C-O	-5.96	114.52	120.90
1	im	229	ARG	N-CA-CB	5.96	119.40	109.56
1	iz	181	VAL	N-CA-C	5.96	116.14	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iB	129	ILE	CA-C-N	5.96	128.27	120.28
1	iB	129	ILE	C-N-CA	5.96	128.27	120.28
1	iD	84	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	j7	92	GLU	N-CA-C	-5.96	101.33	108.25
1	jg	59	VAL	N-CA-C	5.96	116.70	110.62
1	jk	66	MET	O-C-N	-5.96	115.24	122.22
1	jw	203	LYS	N-CA-CB	5.96	118.89	110.12
1	jF	200	THR	CA-C-O	5.96	126.87	120.55
1	jU	188	THR	N-CA-C	5.96	117.45	111.07
1	kj	173	ARG	NE-CZ-NH2	-5.96	113.83	119.20
1	21	20	LEU	N-CA-C	5.96	117.78	111.28
1	21	212	GLU	N-CA-C	5.96	117.78	111.28
1	km	207	PRO	CA-N-CD	5.96	120.35	112.00
1	l1	41	SER	CA-C-N	5.96	128.27	120.28
1	l1	41	SER	C-N-CA	5.96	128.27	120.28
1	lq	123	PRO	CB-CA-C	-5.96	103.76	111.39
1	2s	154	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	2s	169	TYR	N-CA-C	5.96	117.45	111.07
1	2O	212	GLU	N-CA-C	5.96	118.57	111.71
1	3m	68	MET	CA-C-O	5.96	126.74	120.42
1	3B	208	ALA	CA-C-O	5.96	126.65	119.43
1	4A	162	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	4M	221	VAL	CA-C-O	5.96	126.29	120.27
1	5t	125	PRO	CA-C-N	5.96	128.94	120.53
1	5t	125	PRO	C-N-CA	5.96	128.94	120.53
1	5C	230	VAL	N-CA-CB	5.96	117.64	110.31
1	5Q	23	TRP	O-C-N	-5.96	114.94	122.27
1	63	196	PRO	N-CA-CB	5.96	109.84	103.52
1	6h	16	SER	CB-CA-C	5.96	118.98	109.62
1	6o	145	TYR	CB-CA-C	-5.96	98.22	110.38
1	6I	144	MET	N-CA-C	5.96	117.86	111.36
1	6J	193	ASN	O-C-N	-5.96	113.94	122.41
1	6S	228	ALA	N-CA-CB	-5.96	102.33	110.56
1	7N	55	MET	N-CA-CB	5.96	118.66	110.01
1	8U	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	9s	151	LEU	N-CA-C	5.96	120.40	113.18
1	9x	83	LEU	O-C-N	-5.96	115.65	122.09
1	9I	72	THR	N-CA-CB	5.96	118.66	110.01
1	9K	119	THR	CA-C-N	5.96	129.59	120.82
1	9K	119	THR	C-N-CA	5.96	129.59	120.82
1	9S	92	GLU	N-CA-C	5.96	118.31	110.08
1	9S	225	GLY	O-C-N	-5.96	115.78	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9U	90	PRO	N-CA-C	5.96	120.21	111.03
1	Z	186	THR	O-C-N	-5.96	115.65	122.09
1	at	65	ALA	CA-C-N	5.96	128.59	120.54
1	at	65	ALA	C-N-CA	5.96	128.59	120.54
1	aY	139	ASN	CA-CB-CG	5.96	118.56	112.60
1	bp	62	HIS	CB-CG-ND1	-5.96	113.76	122.70
1	bA	84	HIS	O-C-N	-5.96	115.32	121.28
1	bA	221	VAL	N-CA-C	-5.96	98.55	107.37
1	c6	105	ALA	CA-C-N	5.96	132.34	120.77
1	c6	105	ALA	C-N-CA	5.96	132.34	120.77
1	cm	153	ILE	O-C-N	-5.96	116.11	122.61
1	cp	58	THR	N-CA-C	5.96	117.78	111.28
1	cG	154	ARG	CA-C-N	5.96	129.34	120.87
1	cG	154	ARG	C-N-CA	5.96	129.34	120.87
1	cT	177	ALA	CA-C-N	5.96	132.93	121.54
1	cT	177	ALA	C-N-CA	5.96	132.93	121.54
1	cX	126	VAL	CA-C-N	5.96	126.56	120.00
1	cX	126	VAL	C-N-CA	5.96	126.56	120.00
1	df	226	HIS	N-CA-C	5.96	118.70	110.35
1	dv	20	LEU	O-C-N	-5.96	115.80	122.12
1	ec	134	ILE	CA-C-N	5.96	128.07	120.56
1	ec	134	ILE	C-N-CA	5.96	128.07	120.56
1	eu	52	LEU	N-CA-C	5.96	118.55	111.33
1	eA	23	TRP	CA-CB-CG	5.96	124.93	113.60
1	eE	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	f8	39	MET	CA-C-N	5.96	128.27	120.28
1	f8	39	MET	C-N-CA	5.96	128.27	120.28
1	fk	227	LYS	CA-C-O	5.96	125.61	119.05
1	fT	3	VAL	CA-CB-CG2	5.96	120.54	110.40
1	g0	112	GLN	CA-C-N	5.96	129.37	120.31
1	g0	112	GLN	C-N-CA	5.96	129.37	120.31
1	1B	130	TYR	N-CA-CB	-5.96	101.35	110.12
1	t	200	THR	CA-C-N	5.96	128.07	120.56
1	t	200	THR	C-N-CA	5.96	128.07	120.56
1	M	191	VAL	CA-C-O	5.96	126.40	119.36
1	N	202	LEU	CA-C-N	5.96	128.27	120.28
1	N	202	LEU	C-N-CA	5.96	128.27	120.28
1	U	7	GLN	O-C-N	5.96	129.69	122.35
1	V	22	ALA	N-CA-C	5.96	117.45	111.07
1	g8	150	ILE	CA-C-O	5.96	126.99	119.48
1	ga	48	THR	N-CA-CB	5.96	116.66	109.74
1	1C	227	LYS	N-CA-C	5.96	118.91	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gk	177	ALA	N-CA-C	5.96	117.99	110.24
1	go	4	GLN	N-CA-C	5.96	119.10	110.28
1	gL	95	GLN	N-CA-C	5.96	118.46	110.35
1	gN	119	THR	CA-CB-CG2	-5.96	100.36	110.50
1	gW	29	GLU	O-C-N	-5.96	114.34	122.33
1	gZ	115	ILE	N-CA-C	5.96	116.14	110.42
1	h7	222	GLY	N-CA-C	5.96	120.40	112.65
1	h8	166	ASP	O-C-N	-5.96	115.80	122.12
1	hm	195	ASN	CA-CB-CG	5.96	118.56	112.60
1	hv	28	GLU	N-CA-C	5.96	117.45	111.07
1	hA	65	ALA	CA-C-N	5.96	129.37	120.31
1	hA	65	ALA	C-N-CA	5.96	129.37	120.31
1	hB	72	THR	O-C-N	-5.96	115.80	122.12
1	1L	137	GLY	N-CA-C	5.96	119.85	112.64
1	hR	15	ILE	N-CA-C	5.96	117.27	109.58
1	hT	91	ILE	CA-CB-CG2	5.96	120.63	110.50
1	ig	52	LEU	CA-C-O	-5.96	114.56	120.82
1	ij	74	ASN	N-CA-C	5.96	118.29	111.02
1	1P	9	GLN	N-CA-C	5.96	119.33	111.28
1	iV	183	ASN	CA-C-N	5.96	128.27	120.28
1	iV	183	ASN	C-N-CA	5.96	128.27	120.28
1	j1	42	ALA	N-CA-C	5.96	117.78	111.28
1	j7	38	PRO	CA-C-N	5.96	128.19	120.44
1	j7	38	PRO	C-N-CA	5.96	128.19	120.44
1	jf	162	ARG	N-CA-C	5.96	117.78	111.28
1	jl	54	THR	N-CA-C	5.96	117.78	111.28
1	1V	132	ARG	NH1-CZ-NH2	-5.96	111.55	119.30
1	jv	216	THR	N-CA-C	-5.96	105.86	113.02
1	jS	195	ASN	CA-C-N	5.96	125.51	119.19
1	jS	195	ASN	C-N-CA	5.96	125.51	119.19
1	jS	226	HIS	CB-CG-CD2	-5.96	123.45	131.20
1	jV	144	MET	N-CA-C	5.96	117.78	111.28
1	1Z	176	GLN	CB-CA-C	5.96	120.05	110.09
1	1Z	226	HIS	CB-CG-CD2	-5.96	123.45	131.20
1	kk	62	HIS	N-CA-C	5.96	119.62	111.39
1	kn	144	MET	O-C-N	-5.96	115.80	122.12
1	kv	166	ASP	N-CA-CB	-5.96	101.36	110.12
1	kD	62	HIS	CA-C-O	-5.96	114.68	121.65
1	kG	41	SER	N-CA-C	5.96	118.29	111.02
1	l4	47	ALA	N-CA-CB	-5.96	101.31	110.85
1	l8	70	LYS	N-CA-C	5.96	117.78	111.28
1	ld	13	GLN	CA-C-O	-5.96	113.80	120.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lE	31	ALA	CA-C-N	5.96	132.93	121.54
1	lE	31	ALA	C-N-CA	5.96	132.93	121.54
1	lG	110	THR	CA-CB-OG1	5.96	118.54	109.60
1	2x	95	GLN	N-CA-CB	5.96	120.57	110.49
1	2V	80	TRP	N-CA-C	5.96	118.56	111.71
1	3c	164	TYR	N-CA-C	5.96	117.78	111.28
1	3n	39	MET	CG-SD-CE	-5.96	87.78	100.90
1	3n	224	PRO	N-CA-C	5.96	124.75	112.47
1	3q	125	PRO	N-CA-CB	-5.96	97.81	102.28
1	3r	42	ALA	CA-C-N	5.96	128.87	120.28
1	3r	42	ALA	C-N-CA	5.96	128.87	120.28
1	3B	42	ALA	CA-C-N	5.96	128.86	120.28
1	3B	42	ALA	C-N-CA	5.96	128.86	120.28
1	3S	63	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	3Y	19	THR	N-CA-CB	5.96	118.72	110.07
1	42	86	VAL	O-C-N	-5.96	115.67	122.94
1	4E	87	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	52	18	ARG	O-C-N	-5.96	115.80	122.12
1	54	1	PRO	CA-C-N	5.96	130.34	122.95
1	54	1	PRO	C-N-CA	5.96	130.34	122.95
1	54	70	LYS	N-CA-C	5.96	118.54	111.33
1	5b	17	PRO	CA-C-O	5.96	126.41	118.90
1	5J	19	THR	N-CA-CB	5.96	119.08	110.20
1	5X	157	PRO	CA-C-N	5.96	132.15	122.67
1	5X	157	PRO	C-N-CA	5.96	132.15	122.67
1	5Z	112	GLN	CA-C-N	5.96	128.19	120.44
1	5Z	112	GLN	C-N-CA	5.96	128.19	120.44
1	65	184	TRP	N-CA-C	5.96	117.78	111.28
1	6G	82	ARG	O-C-N	-5.96	115.93	122.07
1	70	115	ILE	CA-C-N	5.96	126.73	119.99
1	70	115	ILE	C-N-CA	5.96	126.73	119.99
1	7j	120	HIS	CB-CG-ND1	5.96	131.64	122.70
1	7u	124	ILE	N-CA-C	5.96	114.79	108.95
1	7y	225	GLY	N-CA-C	-5.96	105.38	113.37
1	7A	10	MET	O-C-N	-5.96	115.54	122.87
1	7N	195	ASN	O-C-N	-5.96	115.49	121.27
1	7S	32	PHE	CA-C-O	5.96	127.16	119.95
1	7S	212	GLU	N-CA-CB	-5.96	101.34	110.16
1	7Z	2	ILE	CB-CA-C	5.96	118.95	110.84
1	80	78	ALA	CA-C-N	5.96	128.27	120.28
1	80	78	ALA	C-N-CA	5.96	128.27	120.28
1	84	25	LYS	CA-C-O	5.96	126.87	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	84	89	GLY	CA-C-N	5.96	127.29	119.84
1	84	89	GLY	C-N-CA	5.96	127.29	119.84
1	8l	170	LYS	CA-C-N	5.96	128.75	120.29
1	8l	170	LYS	C-N-CA	5.96	128.75	120.29
1	8m	173	ARG	NH1-CZ-NH2	-5.96	111.55	119.30
1	8q	18	ARG	CA-C-N	5.96	128.52	120.65
1	8q	18	ARG	C-N-CA	5.96	128.52	120.65
1	8v	84	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	9f	60	GLY	O-C-N	-5.96	114.95	122.70
1	9h	146	SER	N-CA-CB	-5.96	102.60	110.17
1	9p	58	THR	N-CA-C	5.96	117.78	111.28
1	Y	145	TYR	N-CA-C	5.96	120.28	112.89
1	9Q	185	MET	N-CA-C	5.96	117.78	111.28
1	a6	3	VAL	CA-C-O	5.96	127.53	121.63
1	ag	119	THR	CA-C-O	5.96	126.53	119.56
1	at	48	THR	CA-C-N	5.96	127.29	119.84
1	at	48	THR	C-N-CA	5.96	127.29	119.84
1	ax	212	GLU	CB-CG-CD	-5.96	102.47	112.60
1	ax	215	MET	N-CA-C	5.96	117.78	111.28
1	aG	100	ARG	CA-C-N	5.96	126.71	120.03
1	aG	100	ARG	C-N-CA	5.96	126.71	120.03
1	aU	210	THR	O-C-N	-5.96	115.38	122.65
1	b4	73	ILE	O-C-N	5.96	127.65	121.87
1	b7	12	HIS	CB-CG-CD2	-5.96	123.45	131.20
1	be	222	GLY	N-CA-C	-5.96	106.54	114.95
1	bs	27	VAL	CA-C-N	5.96	128.19	120.44
1	bs	27	VAL	C-N-CA	5.96	128.19	120.44
1	bS	102	SER	CA-C-N	5.96	128.19	120.44
1	bS	102	SER	C-N-CA	5.96	128.19	120.44
1	c3	226	HIS	CB-CG-ND1	5.96	131.64	122.70
1	cq	184	TRP	CD2-CE2-CZ2	-5.96	116.44	122.40
1	cQ	23	TRP	N-CA-C	5.96	117.45	111.07
1	d3	13	GLN	CA-C-N	5.96	129.33	120.87
1	d3	13	GLN	C-N-CA	5.96	129.33	120.87
1	d9	148	THR	CA-CB-OG1	5.96	118.54	109.60
1	de	120	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	dA	210	THR	O-C-N	-5.96	115.82	122.86
1	dF	129	ILE	N-CA-CB	5.96	117.53	110.55
1	dO	190	LEU	N-CA-C	5.96	117.45	111.07
1	e0	68	MET	CA-C-N	5.96	128.59	120.54
1	e0	68	MET	C-N-CA	5.96	128.59	120.54
1	e9	119	THR	CA-CB-OG1	5.96	118.54	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ec	9	GLN	O-C-N	-5.96	116.36	123.27
1	el	134	ILE	CA-C-N	5.96	128.94	120.53
1	el	134	ILE	C-N-CA	5.96	128.94	120.53
1	es	82	ARG	NH1-CZ-NH2	-5.96	111.55	119.30
1	ez	112	GLN	N-CA-C	5.96	118.54	111.33
1	eS	228	ALA	N-CA-C	5.96	119.10	110.28
1	eY	230	VAL	CA-C-N	5.96	132.43	121.70
1	eY	230	VAL	C-N-CA	5.96	132.43	121.70
1	f0	158	LYS	CA-C-O	5.96	126.51	119.48
1	f5	221	VAL	O-C-N	-5.96	116.63	123.07
1	1v	157	PRO	N-CA-C	5.96	122.63	113.75
1	ff	87	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	fo	162	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	fp	132	ARG	CA-C-N	5.96	128.27	120.28
1	fp	132	ARG	C-N-CA	5.96	128.27	120.28
1	fA	44	SER	CA-C-N	5.96	129.08	120.38
1	fA	44	SER	C-N-CA	5.96	129.08	120.38
1	fZ	211	LEU	CA-C-O	5.96	126.87	120.55
1	f	76	GLU	N-CA-C	5.96	118.73	111.82
1	t	58	THR	OG1-CB-CG2	-5.96	97.38	109.30
1	2	12	HIS	CA-CB-CG	5.96	119.76	113.80
1	D	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	U	224	PRO	CA-C-N	5.96	133.28	121.53
1	U	224	PRO	C-N-CA	5.96	133.28	121.53
1	V	167	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	g8	102	SER	N-CA-C	5.96	117.78	111.28
1	gf	148	THR	CA-C-N	5.96	129.58	120.82
1	gf	148	THR	C-N-CA	5.96	129.58	120.82
1	h1	57	ASN	CA-CB-CG	-5.96	106.64	112.60
1	h1	162	ARG	CA-CB-CG	5.96	126.02	114.10
1	hz	10	MET	N-CA-C	5.96	118.84	109.96
1	hz	16	SER	CA-C-N	5.96	125.51	119.19
1	hz	16	SER	C-N-CA	5.96	125.51	119.19
1	hJ	52	LEU	N-CA-C	5.96	117.78	111.28
1	hM	57	ASN	CA-C-O	5.96	126.24	119.27
1	if	14	ALA	CA-C-N	5.96	129.19	120.91
1	if	14	ALA	C-N-CA	5.96	129.19	120.91
1	1S	198	CYS	CA-C-N	5.96	128.86	120.28
1	1S	198	CYS	C-N-CA	5.96	128.86	120.28
1	iX	97	ARG	CD-NE-CZ	5.96	132.74	124.40
1	1V	203	LYS	CG-CD-CE	5.96	125.01	111.30
1	jy	92	GLU	CA-C-N	5.96	126.31	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jy	92	GLU	C-N-CA	5.96	126.31	119.93
1	jN	106	GLY	CA-C-N	5.96	128.19	120.44
1	jN	106	GLY	C-N-CA	5.96	128.19	120.44
1	kk	152	ASP	O-C-N	-5.96	115.03	122.24
1	kK	71	GLU	N-CA-C	5.96	117.86	111.36
1	2m	87	HIS	O-C-N	-5.96	115.19	122.82
1	2O	229	ARG	N-CA-C	5.96	119.81	112.54
1	2Y	119	THR	CA-C-O	5.96	126.53	119.56
1	3g	37	ILE	O-C-N	5.96	124.23	120.42
1	3g	109	SER	O-C-N	-5.96	116.22	123.19
1	4V	153	ILE	CA-C-N	-5.96	114.37	123.07
1	4V	153	ILE	C-N-CA	-5.96	114.37	123.07
1	6B	25	LYS	CB-CA-C	5.96	120.68	110.79
1	6T	131	LYS	CA-C-N	5.96	128.27	120.28
1	6T	131	LYS	C-N-CA	5.96	128.27	120.28
1	71	173	ARG	CD-NE-CZ	-5.96	116.06	124.40
1	7u	50	GLN	CA-C-N	5.96	128.54	120.44
1	7u	50	GLN	C-N-CA	5.96	128.54	120.44
1	7u	70	LYS	CA-C-O	-5.96	114.10	120.42
1	7M	58	THR	CA-CB-OG1	5.96	118.54	109.60
1	8G	217	ALA	CA-C-N	5.96	131.05	122.35
1	8G	217	ALA	C-N-CA	5.96	131.05	122.35
1	9i	50	GLN	CG-CD-OE1	5.96	132.72	120.80
1	9y	160	PRO	N-CA-CB	-5.96	98.00	103.31
1	9K	18	ARG	CA-C-N	5.96	128.54	120.38
1	9K	18	ARG	C-N-CA	5.96	128.54	120.38
1	ao	124	ILE	N-CA-CB	5.96	118.59	111.08
1	aF	146	SER	CA-C-N	5.96	127.29	119.84
1	aF	146	SER	C-N-CA	5.96	127.29	119.84
1	aR	66	MET	CA-C-N	5.96	128.19	120.44
1	aR	66	MET	C-N-CA	5.96	128.19	120.44
1	aX	84	HIS	CA-C-O	-5.96	114.91	119.32
1	bb	22	ALA	CA-C-O	5.96	127.08	120.82
1	bs	159	GLU	CB-CG-CD	5.96	122.73	112.60
1	bF	51	ASP	CA-C-N	5.96	128.27	120.28
1	bF	51	ASP	C-N-CA	5.96	128.27	120.28
1	bL	183	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	c9	130	TYR	N-CA-C	5.96	117.78	111.28
1	1g	181	VAL	CA-C-N	5.96	128.59	120.54
1	1g	181	VAL	C-N-CA	5.96	128.59	120.54
1	dd	120	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	dk	89	GLY	N-CA-C	5.96	124.50	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	214	MET	CA-C-O	5.96	127.08	120.82
1	dA	87	HIS	N-CA-C	5.96	118.98	110.10
1	dD	9	GLN	N-CA-C	5.96	123.49	110.80
1	dG	9	GLN	CA-C-O	5.96	127.87	121.55
1	dH	209	ALA	N-CA-C	5.96	118.87	110.23
1	1m	129	ILE	CB-CA-C	-5.96	104.09	112.14
1	dN	25	LYS	O-C-N	-5.96	114.94	122.27
1	ef	185	MET	CG-SD-CE	-5.96	87.79	100.90
1	eo	201	ILE	O-C-N	-5.96	116.07	121.91
1	er	167	ARG	CA-C-O	5.96	126.87	120.55
1	eY	174	ALA	N-CA-C	5.96	117.86	111.36
1	f7	39	MET	CA-C-O	5.96	127.07	120.63
1	fK	71	GLU	CA-C-N	5.96	128.59	120.54
1	fK	71	GLU	C-N-CA	5.96	128.59	120.54
1	fU	143	ARG	NE-CZ-NH2	5.96	124.56	119.20
1	fV	96	MET	CG-SD-CE	-5.96	87.79	100.90
1	Q	59	VAL	N-CA-C	5.96	117.73	109.80
1	gA	141	ILE	O-C-N	-5.96	115.70	121.90
1	gF	20	LEU	N-CA-CB	5.96	118.65	110.01
1	gP	82	ARG	CA-C-O	-5.96	114.10	120.42
1	h3	14	ALA	O-C-N	-5.96	115.54	122.87
1	1I	198	CYS	CA-C-N	5.96	128.26	120.28
1	1I	198	CYS	C-N-CA	5.96	128.26	120.28
1	ht	12	HIS	N-CA-CB	5.96	119.06	110.06
1	ht	161	PHE	CA-CB-CG	-5.96	107.84	113.80
1	hP	64	ALA	N-CA-C	5.96	117.77	111.28
1	hV	130	TYR	N-CA-C	5.96	117.45	111.07
1	i5	92	GLU	CA-C-N	5.96	127.29	119.84
1	i5	92	GLU	C-N-CA	5.96	127.29	119.84
1	1O	98	GLU	N-CA-C	5.96	117.21	109.64
1	ih	165	VAL	N-CA-C	-5.96	103.64	111.09
1	ii	87	HIS	CA-CB-CG	-5.96	107.84	113.80
1	ii	170	LYS	CA-C-N	5.96	128.75	120.29
1	ii	170	LYS	C-N-CA	5.96	128.75	120.29
1	iy	113	GLU	CA-C-N	5.96	128.19	120.44
1	iy	113	GLU	C-N-CA	5.96	128.19	120.44
1	iy	223	GLY	CA-C-N	5.96	127.29	119.84
1	iy	223	GLY	C-N-CA	5.96	127.29	119.84
1	iN	132	ARG	NE-CZ-NH2	5.96	124.56	119.20
1	jo	142	VAL	O-C-N	-5.96	114.83	122.22
1	js	216	THR	N-CA-C	-5.96	105.97	113.72
1	jv	229	ARG	O-C-N	-5.96	115.91	123.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1X	197	ASP	CA-C-O	5.96	126.80	119.05
1	jJ	181	VAL	N-CA-CB	5.96	118.64	110.54
1	1Y	21	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	jT	221	VAL	O-C-N	-5.96	116.19	122.57
1	kd	117	TRP	CB-CG-CD2	-5.96	118.46	126.80
1	ko	50	GLN	N-CA-C	5.96	117.77	111.28
1	kr	59	VAL	O-C-N	-5.96	116.59	122.67
1	kt	121	ASN	CB-CA-C	5.96	117.47	109.42
1	kF	129	ILE	N-CA-CB	-5.96	103.58	110.55
1	kG	214	MET	CA-C-O	5.96	125.45	118.90
1	kH	191	VAL	CA-C-N	5.96	128.54	120.38
1	kH	191	VAL	C-N-CA	5.96	128.54	120.38
1	kY	87	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	lf	17	PRO	N-CA-C	-5.96	104.62	114.75
1	lf	77	ALA	N-CA-C	5.96	117.77	111.28
1	li	117	TRP	CB-CG-CD2	5.96	135.14	126.80
1	lO	136	LEU	CA-C-N	5.96	126.55	120.00
1	lO	136	LEU	C-N-CA	5.96	126.55	120.00
1	2i	39	MET	N-CA-C	5.96	117.45	111.07
1	2u	62	HIS	CA-C-N	5.96	128.86	120.28
1	2u	62	HIS	C-N-CA	5.96	128.86	120.28
1	2u	110	THR	CA-CB-OG1	5.96	118.54	109.60
1	2H	209	ALA	N-CA-C	5.96	118.87	110.23
1	2V	35	GLU	CA-C-N	5.96	128.88	120.42
1	2V	35	GLU	C-N-CA	5.96	128.88	120.42
1	3p	226	HIS	CA-CB-CG	5.96	119.76	113.80
1	3E	141	ILE	CA-C-N	5.96	128.88	120.42
1	3E	141	ILE	C-N-CA	5.96	128.88	120.42
1	3Q	19	THR	N-CA-CB	5.96	118.65	110.01
1	3U	73	ILE	O-C-N	5.96	127.75	121.91
1	3X	10	MET	O-C-N	-5.96	115.56	122.95
1	41	110	THR	O-C-N	-5.96	116.30	123.03
1	4a	159	GLU	CA-C-N	5.96	125.92	119.78
1	4a	159	GLU	C-N-CA	5.96	125.92	119.78
1	4c	211	LEU	CA-C-O	5.96	126.87	120.55
1	4m	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	4W	172	LEU	CA-C-N	5.96	128.26	120.28
1	4W	172	LEU	C-N-CA	5.96	128.26	120.28
1	4Z	126	VAL	O-C-N	-5.96	116.05	121.89
1	50	178	SER	CA-C-N	5.96	128.86	120.28
1	50	178	SER	C-N-CA	5.96	128.86	120.28
1	57	164	TYR	O-C-N	-5.96	115.80	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	59	162	ARG	CA-C-O	-5.96	113.63	120.24
1	5l	33	SER	N-CA-C	-5.96	102.77	108.13
1	5D	192	GLN	O-C-N	-5.96	115.81	122.12
1	5N	82	ARG	NE-CZ-NH2	-5.96	113.84	119.20
1	5U	28	GLU	CA-C-O	5.96	127.28	120.90
1	64	21	ASN	O-C-N	-5.96	114.94	122.27
1	6l	24	VAL	CA-C-N	5.96	128.58	120.54
1	6l	24	VAL	C-N-CA	5.96	128.58	120.54
1	6r	146	SER	N-CA-C	5.96	118.06	109.48
1	6G	148	THR	CA-C-N	5.96	129.17	120.71
1	6G	148	THR	C-N-CA	5.96	129.17	120.71
1	77	72	THR	CA-C-N	5.96	128.07	120.56
1	77	72	THR	C-N-CA	5.96	128.07	120.56
1	7c	18	ARG	CA-C-N	5.96	128.26	120.28
1	7c	18	ARG	C-N-CA	5.96	128.26	120.28
1	7z	72	THR	CA-C-N	5.96	128.62	120.46
1	7z	72	THR	C-N-CA	5.96	128.62	120.46
1	7I	99	PRO	CA-C-N	5.96	132.26	121.06
1	7I	99	PRO	C-N-CA	5.96	132.26	121.06
1	7Q	164	TYR	CB-CG-CD1	-5.96	111.86	120.80
1	7T	101	GLY	CA-C-N	5.96	129.37	120.31
1	7T	101	GLY	C-N-CA	5.96	129.37	120.31
1	7Z	57	ASN	CA-C-N	5.96	129.76	120.82
1	7Z	57	ASN	C-N-CA	5.96	129.76	120.82
1	84	88	ALA	CA-C-N	5.96	130.00	121.42
1	84	88	ALA	C-N-CA	5.96	130.00	121.42
1	86	153	ILE	CA-CB-CG1	5.96	120.53	110.40
1	8F	77	ALA	N-CA-C	5.96	117.58	111.14
1	8G	94	GLY	O-C-N	-5.96	115.51	122.60
1	8L	150	ILE	O-C-N	5.96	127.92	121.90
1	9d	182	LYS	CA-C-O	5.96	127.28	120.90
1	9o	29	GLU	O-C-N	-5.96	114.34	122.33
1	9q	63	GLN	O-C-N	-5.96	114.94	122.27
1	9B	37	ILE	CA-C-N	5.96	125.51	119.19
1	9B	37	ILE	C-N-CA	5.96	125.51	119.19
1	9G	195	ASN	O-C-N	-5.96	114.98	121.53
1	9Q	133	TRP	CA-C-N	5.96	128.57	120.77
1	9Q	133	TRP	C-N-CA	5.96	128.57	120.77
1	9X	70	LYS	N-CA-C	5.96	117.77	111.28
1	9X	188	THR	CA-C-N	5.96	132.92	121.54
1	9X	188	THR	C-N-CA	5.96	132.92	121.54
1	a5	62	HIS	CA-C-N	5.96	128.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a5	62	HIS	C-N-CA	5.96	128.86	120.28
1	aa	27	VAL	N-CA-C	-5.96	103.64	111.09
1	aj	68	MET	O-C-N	-5.96	115.80	122.12
1	at	209	ALA	N-CA-C	5.96	117.74	110.41
1	au	145	TYR	N-CA-C	-5.96	105.59	112.92
1	au	165	VAL	CA-C-N	5.96	128.19	120.44
1	au	165	VAL	C-N-CA	5.96	128.19	120.44
1	aF	164	TYR	N-CA-CB	5.96	118.88	110.12
1	aN	190	LEU	CA-C-O	-5.96	114.74	121.00
1	aY	82	ARG	N-CA-C	5.96	118.73	111.82
1	b0	62	HIS	CB-CG-ND1	-5.96	113.76	122.70
1	b7	226	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	bd	200	THR	CA-C-N	5.96	128.07	120.56
1	bd	200	THR	C-N-CA	5.96	128.07	120.56
1	bq	93	PRO	CA-C-N	5.96	130.04	122.83
1	bq	93	PRO	C-N-CA	5.96	130.04	122.83
1	bs	66	MET	CA-C-N	5.96	128.26	120.28
1	bs	66	MET	C-N-CA	5.96	128.26	120.28
1	bw	49	PRO	N-CD-CG	5.96	112.14	103.20
1	bx	101	GLY	O-C-N	-5.96	116.47	122.19
1	bK	139	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	bX	18	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
1	c3	61	GLY	N-CA-C	5.96	121.85	111.78
1	cb	33	SER	O-C-N	-5.96	114.76	121.43
1	ct	120	HIS	CB-CG-CD2	-5.96	123.45	131.20
1	cv	66	MET	N-CA-C	5.96	118.73	111.82
1	d1	173	ARG	N-CA-C	5.96	119.38	111.75
1	da	210	THR	CA-CB-OG1	5.96	118.54	109.60
1	dc	43	LEU	CA-C-N	5.96	133.20	121.58
1	dc	43	LEU	C-N-CA	5.96	133.20	121.58
1	dd	163	ASP	CA-CB-CG	-5.96	106.64	112.60
1	1j	29	GLU	N-CA-C	5.96	117.85	111.36
1	dm	130	TYR	CA-C-N	5.96	128.26	120.28
1	dm	130	TYR	C-N-CA	5.96	128.26	120.28
1	dx	26	VAL	CB-CA-C	5.96	119.60	111.97
1	dL	79	GLU	N-CA-C	5.96	117.45	111.07
1	dM	48	THR	N-CA-CB	5.96	116.65	109.74
1	eb	7	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	eb	169	TYR	CA-C-N	5.96	128.19	120.44
1	eb	169	TYR	C-N-CA	5.96	128.19	120.44
1	ez	8	GLY	N-CA-C	-5.96	106.50	115.32
1	fs	84	HIS	CB-CG-CD2	-5.96	123.45	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fB	228	ALA	O-C-N	-5.96	115.25	123.12
1	fW	42	ALA	N-CA-C	5.96	118.56	111.71
1	g5	226	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	1	27	VAL	N-CA-CB	-5.96	102.44	110.54
1	u	97	ARG	CA-C-N	5.96	128.65	120.67
1	u	97	ARG	C-N-CA	5.96	128.65	120.67
1	v	184	TRP	CB-CG-CD2	5.96	135.14	126.80
1	L	12	HIS	N-CA-C	5.96	118.44	108.96
1	N	67	GLN	CA-C-N	5.96	128.19	120.44
1	N	67	GLN	C-N-CA	5.96	128.19	120.44
1	gA	200	THR	CA-C-O	5.96	126.73	120.42
1	1F	18	ARG	CB-CG-CD	5.96	125.00	111.30
1	gQ	12	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	gQ	146	SER	O-C-N	-5.96	115.49	121.27
1	gS	47	ALA	O-C-N	-5.96	115.56	122.95
1	gT	84	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	1L	81	ASP	O-C-N	-5.96	115.81	122.12
1	hO	84	HIS	CA-CB-CG	-5.96	107.84	113.80
1	hT	12	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	hU	211	LEU	O-C-N	-5.96	115.81	122.12
1	i1	8	GLY	CA-C-O	-5.96	116.65	121.77
1	i7	187	GLU	N-CA-C	5.96	117.85	111.36
1	il	8	GLY	O-C-N	-5.96	118.22	123.88
1	il	73	ILE	N-CA-CB	5.96	117.52	110.55
1	iy	132	ARG	CB-CA-C	5.96	122.11	110.67
1	iI	61	GLY	O-C-N	-5.96	117.69	122.81
1	iK	21	ASN	CB-CG-OD1	5.96	132.71	120.80
1	iX	168	PHE	CA-CB-CG	5.96	119.76	113.80
1	j0	131	LYS	N-CA-C	5.96	119.37	111.75
1	jx	181	VAL	CA-C-O	-5.96	114.54	120.85
1	jN	15	ILE	O-C-N	-5.96	116.48	122.62
1	jX	141	ILE	O-C-N	-5.96	116.05	121.89
1	k0	202	LEU	N-CA-C	5.96	117.77	111.28
1	k4	190	LEU	N-CA-C	5.96	117.85	111.36
1	kn	189	LEU	CA-C-O	5.96	126.86	120.55
1	23	217	ALA	O-C-N	-5.96	115.83	122.86
1	kE	166	ASP	CB-CA-C	5.96	120.13	110.96
1	kI	221	VAL	CB-CA-C	-5.96	101.81	110.63
1	kN	62	HIS	CB-CG-CD2	-5.96	123.46	131.20
1	25	50	GLN	O-C-N	-5.96	115.81	122.12
1	25	88	ALA	N-CA-CB	-5.96	100.54	109.71
1	26	169	TYR	N-CA-C	5.96	119.73	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ln	12	HIS	N-CA-CB	5.96	118.75	110.17
1	lu	46	GLY	O-C-N	-5.96	114.96	122.70
1	lx	14	ALA	N-CA-C	5.96	118.23	110.43
1	ly	148	THR	CA-C-N	5.96	132.92	121.54
1	ly	148	THR	C-N-CA	5.96	132.92	121.54
1	lB	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	lC	122	PRO	N-CA-CB	5.96	109.15	102.60
1	lN	120	HIS	CA-CB-CG	5.96	119.76	113.80
1	2h	70	LYS	N-CA-C	5.96	117.44	111.07
1	2m	225	GLY	CA-C-N	5.96	130.29	120.94
1	2m	225	GLY	C-N-CA	5.96	130.29	120.94
1	2q	165	VAL	CA-C-N	5.96	128.26	120.28
1	2q	165	VAL	C-N-CA	5.96	128.26	120.28
1	2H	186	THR	CB-CA-C	-5.96	100.72	110.85
1	34	98	GLU	CA-C-O	-5.96	113.84	119.80
1	3k	153	ILE	O-C-N	-5.96	116.32	122.63
1	3r	133	TRP	N-CA-C	5.96	117.77	111.28
1	3V	20	LEU	N-CA-C	5.96	118.26	111.11
1	40	120	HIS	ND1-CE1-NE2	5.96	114.36	108.40
1	4i	140	LYS	CA-C-O	5.96	126.86	120.55
1	4n	82	ARG	O-C-N	-5.96	115.81	122.12
1	4n	168	PHE	O-C-N	-5.96	115.81	122.12
1	4o	199	LYS	CA-C-N	5.96	128.26	120.28
1	4o	199	LYS	C-N-CA	5.96	128.26	120.28
1	4x	38	PRO	N-CA-C	-5.96	105.42	113.40
1	55	195	ASN	CA-C-N	5.96	127.29	119.84
1	55	195	ASN	C-N-CA	5.96	127.29	119.84
1	5a	179	GLN	CA-C-N	5.96	128.26	120.28
1	5a	179	GLN	C-N-CA	5.96	128.26	120.28
1	5h	67	GLN	CB-CA-C	5.96	120.68	110.79
1	5k	68	MET	N-CA-C	5.96	117.77	111.28
1	5x	111	LEU	CB-CA-C	5.96	120.68	110.79
1	5H	117	TRP	N-CA-C	5.96	117.44	111.07
1	66	226	HIS	CG-CD2-NE2	5.96	113.16	107.20
1	6t	103	ASP	CA-C-N	5.96	128.18	120.56
1	6t	103	ASP	C-N-CA	5.96	128.18	120.56
1	6B	72	THR	N-CA-C	5.96	117.77	111.28
1	6L	92	GLU	CB-CG-CD	5.96	122.73	112.60
1	71	82	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	7c	139	ASN	CA-CB-CG	5.96	118.56	112.60
1	7A	145	TYR	CA-C-O	5.96	126.98	119.95
1	7J	190	LEU	O-C-N	-5.96	115.81	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7J	213	GLU	N-CA-C	-5.96	104.79	111.28
1	7K	148	THR	CB-CA-C	-5.96	99.67	109.80
1	7N	229	ARG	N-CA-C	-5.96	106.63	114.31
1	7Y	157	PRO	O-C-N	5.96	129.38	122.23
1	80	107	THR	N-CA-C	-5.96	106.04	113.55
1	8e	96	MET	CB-CA-C	5.96	122.27	110.42
1	8l	82	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	8n	79	GLU	CA-C-N	5.96	128.18	120.44
1	8n	79	GLU	C-N-CA	5.96	128.18	120.44
1	8t	71	GLU	O-C-N	-5.96	115.36	122.15
1	8v	108	THR	CA-CB-OG1	5.96	118.53	109.60
1	8E	112	GLN	CA-C-N	5.96	128.75	120.29
1	8E	112	GLN	C-N-CA	5.96	128.75	120.29
1	8M	204	ALA	N-CA-C	5.96	117.77	111.28
1	8R	41	SER	N-CA-CB	5.96	119.00	110.06
1	8S	72	THR	O-C-N	5.96	128.21	122.07
1	90	125	PRO	CA-C-N	5.96	128.93	120.53
1	90	125	PRO	C-N-CA	5.96	128.93	120.53
1	98	98	GLU	N-CA-CB	5.96	118.54	110.14
1	9s	93	PRO	CA-C-O	-5.96	114.83	121.32
1	9s	120	HIS	CE1-NE2-CD2	-5.96	103.04	109.00
1	9D	64	ALA	N-CA-C	5.96	117.77	111.28
1	a5	167	ARG	NE-CZ-NH2	5.96	124.56	119.20
1	10	33	SER	N-CA-CB	-5.96	104.85	111.10
1	ae	20	LEU	CA-C-N	5.96	128.18	120.44
1	ae	20	LEU	C-N-CA	5.96	128.18	120.44
1	ao	69	LEU	CB-CA-C	5.96	120.23	110.88
1	13	176	GLN	CA-C-N	5.96	129.17	120.71
1	13	176	GLN	C-N-CA	5.96	129.17	120.71
1	aR	27	VAL	O-C-N	-5.96	113.66	121.82
1	bq	126	VAL	CA-C-N	5.96	126.55	120.00
1	bq	126	VAL	C-N-CA	5.96	126.55	120.00
1	bA	162	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	bB	69	LEU	O-C-N	-5.96	115.94	122.07
1	cb	195	ASN	CA-C-N	5.96	127.29	119.84
1	cb	195	ASN	C-N-CA	5.96	127.29	119.84
1	cj	130	TYR	CA-C-N	5.96	128.26	120.28
1	cj	130	TYR	C-N-CA	5.96	128.26	120.28
1	co	48	THR	CA-C-O	-5.96	114.21	120.70
1	cC	14	ALA	CA-C-N	5.96	128.48	120.50
1	cC	14	ALA	C-N-CA	5.96	128.48	120.50
1	cD	45	GLU	CA-C-O	5.96	126.92	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cO	13	GLN	O-C-N	-5.96	115.96	123.17
1	1h	16	SER	CA-C-N	5.96	125.50	119.19
1	1h	16	SER	C-N-CA	5.96	125.50	119.19
1	e8	206	GLY	CA-C-N	5.96	127.29	119.84
1	e8	206	GLY	C-N-CA	5.96	127.29	119.84
1	ec	158	LYS	O-C-N	-5.96	115.60	122.09
1	eg	139	ASN	CA-C-O	5.96	126.86	120.55
1	ej	50	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	1q	72	THR	N-CA-CB	5.96	118.88	110.12
1	1q	86	VAL	CA-C-N	5.96	131.82	122.17
1	1q	86	VAL	C-N-CA	5.96	131.82	122.17
1	1r	1	PRO	CA-N-CD	-5.96	103.66	112.00
1	ey	114	GLN	CA-C-O	-5.96	114.53	120.90
1	eC	128	GLU	O-C-N	5.96	128.21	122.07
1	eE	87	HIS	CB-CG-CD2	-5.96	123.45	131.20
1	1s	3	VAL	CB-CA-C	5.96	119.35	111.19
1	eG	11	VAL	N-CA-CB	5.96	119.41	111.90
1	1t	40	PHE	CA-C-N	5.96	128.26	120.28
1	1t	40	PHE	C-N-CA	5.96	128.26	120.28
1	eQ	130	TYR	N-CA-C	5.96	117.77	111.28
1	eR	96	MET	N-CA-C	5.96	119.09	110.28
1	fg	212	GLU	N-CA-C	5.96	117.77	111.28
1	1x	214	MET	N-CA-CB	-5.96	101.13	110.30
1	fB	75	GLU	CB-CA-C	-5.96	99.23	110.67
1	fB	82	ARG	NE-CZ-NH1	5.96	127.46	121.50
1	fS	26	VAL	N-CA-CB	5.96	117.52	110.55
1	0	64	ALA	N-CA-C	5.96	117.44	111.07
1	d	185	MET	CG-SD-CE	-5.96	87.80	100.90
1	d	219	GLN	OE1-CD-NE2	-5.96	116.64	122.60
1	g	156	GLY	CA-C-N	5.96	125.66	119.64
1	g	156	GLY	C-N-CA	5.96	125.66	119.64
1	2	5	ASN	CA-C-O	5.96	127.60	121.23
1	B	148	THR	O-C-N	-5.96	117.33	123.29
1	H	156	GLY	O-C-N	-5.96	115.81	121.77
1	K	168	PHE	CB-CA-C	5.96	120.23	110.88
1	4	91	ILE	N-CA-C	5.96	116.14	110.42
1	4	217	ALA	CA-C-N	5.96	128.26	120.28
1	4	217	ALA	C-N-CA	5.96	128.26	120.28
1	X	188	THR	O-C-N	-5.96	115.16	122.19
1	gn	28	GLU	CA-C-N	5.96	128.54	120.44
1	gn	28	GLU	C-N-CA	5.96	128.54	120.44
1	gn	121	ASN	N-CA-C	5.96	118.51	110.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gQ	171	THR	CA-C-O	5.96	126.82	119.97
1	hp	19	THR	N-CA-CB	5.96	118.64	110.01
1	hD	183	ASN	OD1-CG-ND2	-5.96	116.64	122.60
1	ic	16	SER	N-CA-C	5.96	116.45	109.60
1	ik	221	VAL	N-CA-C	-5.96	107.45	113.47
1	iq	179	GLN	CA-C-N	5.96	128.54	120.38
1	iq	179	GLN	C-N-CA	5.96	128.54	120.38
1	iz	67	GLN	N-CA-CB	5.96	118.81	109.94
1	iQ	80	TRP	CE2-CD2-CE3	-5.96	112.84	118.80
1	jt	59	VAL	N-CA-C	5.96	116.97	108.93
1	jG	49	PRO	CA-C-N	5.96	128.58	120.54
1	jG	49	PRO	C-N-CA	5.96	128.58	120.54
1	jR	10	MET	N-CA-C	5.96	118.86	110.23
1	kg	173	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
1	ki	47	ALA	O-C-N	-5.96	115.62	122.89
1	ki	162	ARG	CB-CA-C	5.96	120.67	110.79
1	l1	97	ARG	O-C-N	-5.96	116.81	123.48
1	lj	170	LYS	N-CA-C	5.96	117.77	111.28
1	lD	82	ARG	O-C-N	-5.96	115.81	122.12
1	2J	50	GLN	CB-CG-CD	5.96	122.72	112.60
1	2Z	201	ILE	CA-C-N	5.96	128.26	120.28
1	2Z	201	ILE	C-N-CA	5.96	128.26	120.28
1	3L	174	ALA	N-CA-C	5.96	117.44	111.07
1	43	20	LEU	N-CA-C	5.96	117.85	111.36
1	4e	89	GLY	CA-C-N	5.96	127.28	119.84
1	4e	89	GLY	C-N-CA	5.96	127.28	119.84
1	4k	179	GLN	N-CA-C	5.96	118.25	111.11
1	6k	43	LEU	N-CA-C	5.96	117.77	111.28
1	6k	54	THR	N-CA-CB	5.96	118.87	110.12
1	6s	132	ARG	NE-CZ-NH2	5.96	124.56	119.20
1	7a	21	ASN	CA-CB-CG	5.96	118.56	112.60
1	7l	102	SER	N-CA-C	5.96	118.73	111.82
1	84	7	GLN	OE1-CD-NE2	5.96	128.56	122.60
1	8s	62	HIS	CE1-NE2-CD2	-5.96	103.05	109.00
1	8S	151	LEU	N-CA-C	5.96	117.77	111.28
1	8Z	188	THR	CA-C-N	5.96	129.07	120.38
1	8Z	188	THR	C-N-CA	5.96	129.07	120.38
1	9r	15	ILE	N-CA-C	5.96	117.10	109.30
1	9P	154	ARG	NE-CZ-NH2	-5.96	113.84	119.20
1	am	216	THR	CA-CB-CG2	-5.96	100.38	110.50
1	aD	173	ARG	NE-CZ-NH1	5.96	127.45	121.50
1	b5	25	LYS	CA-CB-CG	5.96	126.01	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bB	166	ASP	CA-CB-CG	5.96	118.56	112.60
1	1a	89	GLY	CA-C-N	5.96	127.28	119.84
1	1a	89	GLY	C-N-CA	5.96	127.28	119.84
1	bP	191	VAL	CA-C-N	5.96	129.75	120.82
1	bP	191	VAL	C-N-CA	5.96	129.75	120.82
1	cj	139	ASN	N-CA-C	5.96	118.54	111.33
1	cE	41	SER	N-CA-C	5.96	117.77	111.28
1	cM	221	VAL	CA-C-O	-5.96	114.81	121.36
1	cX	111	LEU	N-CA-C	5.96	117.77	111.28
1	d1	87	HIS	CE1-NE2-CD2	-5.96	103.05	109.00
1	1i	132	ARG	CG-CD-NE	-5.96	98.90	112.00
1	d7	228	ALA	N-CA-C	5.96	123.48	110.80
1	dr	164	TYR	CA-C-N	5.96	128.62	120.46
1	dr	164	TYR	C-N-CA	5.96	128.62	120.46
1	dx	86	VAL	CB-CA-C	5.96	120.31	111.26
1	dG	212	GLU	CA-C-N	5.96	128.26	120.28
1	dG	212	GLU	C-N-CA	5.96	128.26	120.28
1	dK	41	SER	CA-C-N	5.96	128.26	120.28
1	dK	41	SER	C-N-CA	5.96	128.26	120.28
1	dX	79	GLU	N-CA-C	5.96	118.53	111.33
1	eo	37	ILE	CA-C-O	-5.96	111.97	119.95
1	eW	111	LEU	N-CA-C	5.96	118.53	111.33
1	fT	5	ASN	CA-C-N	5.96	132.91	121.54
1	fT	5	ASN	C-N-CA	5.96	132.91	121.54
1	fW	154	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
1	g4	77	ALA	O-C-N	-5.96	115.81	122.12
1	j	122	PRO	N-CA-CB	5.96	109.15	102.60
1	ga	32	PHE	CA-CB-CG	-5.95	107.85	113.80
1	gt	3	VAL	N-CA-C	-5.95	99.84	108.89
1	gx	159	GLU	CB-CA-C	-5.95	100.60	108.76
1	h4	162	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	h8	166	ASP	CA-CB-CG	-5.95	106.65	112.60
1	1I	201	ILE	N-CA-C	5.95	116.69	110.62
1	hp	219	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	hx	33	SER	O-C-N	-5.95	114.98	121.53
1	hz	171	THR	CA-C-N	5.95	128.18	120.44
1	hz	171	THR	C-N-CA	5.95	128.18	120.44
1	i5	143	ARG	CB-CG-CD	5.95	125.00	111.30
1	i8	166	ASP	O-C-N	-5.95	115.94	122.07
1	ib	131	LYS	CB-CA-C	-5.95	101.53	110.88
1	in	183	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	io	55	MET	CA-C-N	5.95	128.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	io	55	MET	C-N-CA	5.95	128.26	120.28
1	iu	164	TYR	CA-C-N	5.95	128.28	120.60
1	iu	164	TYR	C-N-CA	5.95	128.28	120.60
1	iA	82	ARG	CA-C-N	5.95	128.26	120.28
1	iA	82	ARG	C-N-CA	5.95	128.26	120.28
1	iH	70	LYS	CA-C-O	5.95	127.07	120.82
1	iM	179	GLN	CB-CG-CD	5.95	122.72	112.60
1	iQ	95	GLN	CG-CD-NE2	5.95	125.33	116.40
1	1S	16	SER	O-C-N	-5.95	116.13	121.31
1	j1	165	VAL	O-C-N	5.95	127.64	121.87
1	j2	115	ILE	O-C-N	5.95	127.64	121.87
1	j4	62	HIS	N-CA-CB	-5.95	102.97	111.84
1	ji	179	GLN	O-C-N	5.95	128.20	122.07
1	jo	87	HIS	CA-CB-CG	-5.95	107.85	113.80
1	jp	60	GLY	CA-C-N	5.95	129.47	121.01
1	jp	60	GLY	C-N-CA	5.95	129.47	121.01
1	jt	192	GLN	N-CA-C	5.95	120.28	113.19
1	ju	50	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	jL	96	MET	O-C-N	5.95	128.43	122.12
1	k2	114	GLN	CB-CG-CD	-5.95	102.48	112.60
1	k5	166	ASP	CA-C-N	5.95	128.26	120.28
1	k5	166	ASP	C-N-CA	5.95	128.26	120.28
1	kt	224	PRO	CB-CA-C	-5.95	104.14	111.11
1	kC	57	ASN	CA-CB-CG	5.95	118.55	112.60
1	23	137	GLY	CA-C-N	5.95	128.26	120.28
1	23	137	GLY	C-N-CA	5.95	128.26	120.28
1	kN	5	ASN	CA-C-O	5.95	126.31	119.35
1	kQ	17	PRO	CA-C-N	5.95	128.74	120.29
1	kQ	17	PRO	C-N-CA	5.95	128.74	120.29
1	kT	28	GLU	N-CA-CB	5.95	118.97	110.16
1	kT	117	TRP	CB-CG-CD2	5.95	135.13	126.80
1	kW	120	HIS	ND1-CE1-NE2	5.95	114.35	108.40
1	kY	73	ILE	CB-CA-C	-5.95	104.10	112.14
1	l2	14	ALA	N-CA-C	5.95	118.64	110.24
1	l9	152	ASP	CA-CB-CG	5.95	118.55	112.60
1	28	127	GLY	CA-C-N	5.95	128.18	120.44
1	28	127	GLY	C-N-CA	5.95	128.18	120.44
1	lQ	24	VAL	N-CA-C	5.95	116.14	110.42
1	2f	6	LEU	N-CA-C	5.95	120.12	112.86
1	2s	45	GLU	N-CA-C	5.95	117.90	108.67
1	2t	103	ASP	CA-C-N	5.95	128.06	120.56
1	2t	103	ASP	C-N-CA	5.95	128.06	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2J	98	GLU	N-CA-C	5.95	117.15	109.65
1	36	107	THR	N-CA-CB	5.95	119.07	110.20
1	3k	164	TYR	CA-C-N	5.95	128.87	120.42
1	3k	164	TYR	C-N-CA	5.95	128.87	120.42
1	3l	215	MET	CA-C-O	-5.95	114.20	120.63
1	3p	103	ASP	O-C-N	5.95	128.94	122.15
1	3F	144	MET	N-CA-C	5.95	117.85	111.36
1	3R	218	CYS	CB-CA-C	-5.95	103.42	112.11
1	3U	94	GLY	CA-C-O	5.95	125.63	119.02
1	4g	172	LEU	O-C-N	-5.95	114.16	122.37
1	4h	119	THR	CA-C-N	5.95	132.91	121.54
1	4h	119	THR	C-N-CA	5.95	132.91	121.54
1	4p	4	GLN	CA-C-N	5.95	134.80	121.76
1	4p	4	GLN	C-N-CA	5.95	134.80	121.76
1	4t	110	THR	N-CA-CB	5.95	120.84	111.20
1	4L	204	ALA	N-CA-C	5.95	118.28	111.02
1	4N	137	GLY	CA-C-N	5.95	128.26	120.28
1	4N	137	GLY	C-N-CA	5.95	128.26	120.28
1	4R	112	GLN	N-CA-C	5.95	117.44	111.07
1	4V	22	ALA	CA-C-O	-5.95	114.24	120.55
1	51	206	GLY	N-CA-C	5.95	124.49	112.34
1	5f	44	SER	N-CA-C	5.95	120.24	112.92
1	5l	96	MET	CA-C-O	5.95	128.49	121.58
1	5D	6	LEU	N-CA-CB	5.95	120.55	110.49
1	5V	148	THR	CA-CB-OG1	5.95	118.53	109.60
1	63	103	ASP	CA-C-N	5.95	128.62	120.46
1	63	103	ASP	C-N-CA	5.95	128.62	120.46
1	6y	84	HIS	CA-CB-CG	-5.95	107.85	113.80
1	6B	14	ALA	CA-C-O	5.95	126.90	120.95
1	6U	184	TRP	N-CA-C	5.95	117.77	111.28
1	70	218	CYS	N-CA-CB	5.95	120.55	110.49
1	7c	183	ASN	O-C-N	-5.95	115.66	122.09
1	7o	101	GLY	O-C-N	-5.95	116.39	122.17
1	7p	161	PHE	N-CA-C	5.95	118.25	111.11
1	7v	183	ASN	O-C-N	-5.95	115.81	122.12
1	7I	39	MET	N-CA-C	5.95	117.44	111.07
1	7I	129	ILE	N-CA-CB	5.95	118.64	110.54
1	8P	126	VAL	N-CA-C	5.95	116.14	110.42
1	8Q	42	ALA	CB-CA-C	-5.95	101.53	110.88
1	8Y	225	GLY	O-C-N	-5.95	117.08	122.86
1	8Z	204	ALA	O-C-N	-5.95	114.49	122.23
1	92	90	PRO	CA-C-N	5.95	129.46	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	92	90	PRO	C-N-CA	5.95	129.46	120.77
1	9c	21	ASN	CA-C-N	5.95	128.58	120.54
1	9c	21	ASN	C-N-CA	5.95	128.58	120.54
1	9n	54	THR	CA-C-N	5.95	128.18	120.44
1	9n	54	THR	C-N-CA	5.95	128.18	120.44
1	9s	88	ALA	CA-C-O	5.95	129.02	120.51
1	9t	72	THR	CA-C-N	5.95	128.62	120.46
1	9t	72	THR	C-N-CA	5.95	128.62	120.46
1	9y	62	HIS	CA-CB-CG	5.95	119.75	113.80
1	9H	174	ALA	CA-C-O	5.95	125.94	119.15
1	9L	219	GLN	CA-C-N	5.95	126.55	120.00
1	9L	219	GLN	C-N-CA	5.95	126.55	120.00
1	9P	140	LYS	CA-C-N	5.95	128.18	120.56
1	9P	140	LYS	C-N-CA	5.95	128.18	120.56
1	at	179	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	aG	12	HIS	CG-CD2-NE2	5.95	113.15	107.20
1	14	203	LYS	CA-C-O	-5.95	114.57	120.82
1	aO	37	ILE	N-CA-CB	-5.95	105.81	110.45
1	aO	80	TRP	O-C-N	-5.95	115.81	122.12
1	aP	149	SER	O-C-N	-5.95	115.97	123.17
1	16	124	ILE	CA-C-O	-5.95	114.59	119.47
1	bb	227	LYS	CA-C-O	5.95	126.92	120.55
1	be	165	VAL	N-CA-C	5.95	117.41	110.62
1	17	169	TYR	N-CA-C	5.95	117.77	111.28
1	bA	102	SER	O-C-N	-5.95	115.81	122.12
1	bV	71	GLU	CA-C-N	5.95	128.18	120.44
1	bV	71	GLU	C-N-CA	5.95	128.18	120.44
1	c1	80	TRP	CA-C-N	5.95	129.36	120.31
1	c1	80	TRP	C-N-CA	5.95	129.36	120.31
1	cn	116	GLY	CA-C-N	5.95	128.26	120.28
1	cn	116	GLY	C-N-CA	5.95	128.26	120.28
1	cv	222	GLY	CA-C-N	5.95	131.22	121.87
1	cv	222	GLY	C-N-CA	5.95	131.22	121.87
1	cD	110	THR	N-CA-CB	5.95	120.33	110.63
1	cM	58	THR	CA-C-O	5.95	126.82	119.97
1	cZ	57	ASN	CA-CB-CG	5.95	118.55	112.60
1	d3	148	THR	N-CA-C	5.95	119.29	110.48
1	d5	84	HIS	ND1-CE1-NE2	5.95	114.35	108.40
1	d8	50	GLN	CA-CB-CG	5.95	126.01	114.10
1	d9	84	HIS	CG-CD2-NE2	5.95	113.15	107.20
1	db	200	THR	CA-C-O	5.95	126.86	120.55
1	dd	192	GLN	N-CA-C	5.95	117.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dx	131	LYS	N-CA-C	5.95	121.19	111.37
1	dE	23	TRP	N-CA-C	5.95	118.25	111.11
1	dG	96	MET	O-C-N	-5.95	114.67	122.59
1	dL	170	LYS	N-CA-C	5.95	117.85	111.36
1	e8	205	LEU	N-CA-C	5.95	117.85	111.36
1	e9	224	PRO	CA-C-O	-5.95	114.86	121.23
1	ek	39	MET	O-C-N	-5.95	115.81	122.12
1	1r	228	ALA	CA-C-N	5.95	130.58	122.19
1	1r	228	ALA	C-N-CA	5.95	130.58	122.19
1	eS	223	GLY	CA-C-O	-5.95	113.01	121.52
1	f2	131	LYS	CA-C-N	5.95	128.18	120.44
1	f2	131	LYS	C-N-CA	5.95	128.18	120.44
1	f2	150	ILE	N-CA-CB	5.95	119.89	110.54
1	f3	120	HIS	CB-CG-CD2	-5.95	123.46	131.20
1	fa	23	TRP	CE2-CD2-CG	-5.95	100.06	107.20
1	fg	72	THR	N-CA-CB	5.95	118.64	110.01
1	fh	199	LYS	CA-C-N	5.95	128.54	120.38
1	fh	199	LYS	C-N-CA	5.95	128.54	120.38
1	1w	121	ASN	CA-CB-CG	-5.95	106.65	112.60
1	fl	30	LYS	CA-C-N	5.95	132.91	121.54
1	fl	30	LYS	C-N-CA	5.95	132.91	121.54
1	fo	169	TYR	O-C-N	-5.95	114.95	122.27
1	fr	84	HIS	ND1-CE1-NE2	5.95	114.35	108.40
1	fw	37	ILE	CA-C-N	5.95	125.50	119.19
1	fw	37	ILE	C-N-CA	5.95	125.50	119.19
1	fy	151	LEU	CA-C-N	5.95	128.85	120.28
1	fy	151	LEU	C-N-CA	5.95	128.85	120.28
1	fD	201	ILE	N-CA-C	5.95	116.73	110.72
1	fL	25	LYS	N-CA-C	5.95	117.57	111.14
1	fN	20	LEU	CA-C-O	-5.95	114.24	120.55
1	fO	62	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	fW	182	LYS	N-CA-C	5.95	117.77	111.28
1	fW	193	ASN	CA-C-O	5.95	126.97	119.95
1	g5	101	GLY	N-CA-C	5.95	120.09	112.83
1	o	27	VAL	O-C-N	-5.95	116.09	121.87
1	y	79	GLU	N-CA-C	5.95	117.77	111.28
1	3	87	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	K	155	GLN	CB-CA-C	5.95	119.60	109.72
1	T	93	PRO	CA-C-O	-5.95	114.76	121.43
1	W	142	VAL	N-CA-C	5.95	116.69	110.62
1	X	41	SER	O-C-N	-5.95	115.81	122.12
1	gT	109	SER	O-C-N	-5.95	116.54	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	147	PRO	CA-C-N	5.95	131.72	122.49
1	ig	147	PRO	C-N-CA	5.95	131.72	122.49
1	1S	130	TYR	N-CA-C	5.95	118.25	111.11
1	iZ	32	PHE	CA-CB-CG	-5.95	107.85	113.80
1	j9	168	PHE	N-CA-CB	-5.95	101.22	109.91
1	jq	226	HIS	CA-CB-CG	-5.95	107.85	113.80
1	jy	2	ILE	N-CA-CB	5.95	117.02	110.53
1	jR	91	ILE	CA-CB-CG1	5.95	120.52	110.40
1	k0	82	ARG	NE-CZ-NH2	-5.95	113.84	119.20
1	k0	93	PRO	N-CD-CG	5.95	112.13	103.20
1	k2	103	ASP	CA-C-O	5.95	126.73	120.42
1	kd	132	ARG	O-C-N	-5.95	115.81	122.12
1	ke	22	ALA	CA-C-N	5.95	128.18	120.44
1	ke	22	ALA	C-N-CA	5.95	128.18	120.44
1	kg	91	ILE	CA-C-N	5.95	128.65	120.67
1	kg	91	ILE	C-N-CA	5.95	128.65	120.67
1	kE	133	TRP	CD2-CE2-CZ2	5.95	128.35	122.40
1	l6	72	THR	CA-C-O	5.95	127.27	120.90
1	li	197	ASP	CA-C-N	5.95	128.53	120.44
1	li	197	ASP	C-N-CA	5.95	128.53	120.44
1	lq	198	CYS	N-CA-C	5.95	117.57	111.14
1	lL	217	ALA	CA-C-O	5.95	129.62	121.88
1	lL	226	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	3w	24	VAL	N-CA-CB	-5.95	103.59	110.55
1	3C	83	LEU	CA-C-O	5.95	126.69	119.31
1	3J	24	VAL	N-CA-C	5.95	116.69	110.62
1	3N	7	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	4u	223	GLY	N-CA-C	5.95	119.14	112.00
1	4Q	166	ASP	O-C-N	-5.95	115.81	122.12
1	4T	62	HIS	CA-C-N	5.95	129.36	120.31
1	4T	62	HIS	C-N-CA	5.95	129.36	120.31
1	4U	179	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	52	64	ALA	N-CA-CB	5.95	118.87	110.12
1	52	80	TRP	N-CA-C	5.95	117.57	111.14
1	62	77	ALA	CA-C-N	5.95	128.25	120.28
1	62	77	ALA	C-N-CA	5.95	128.25	120.28
1	6b	87	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	6f	126	VAL	O-C-N	-5.95	115.89	121.90
1	6s	183	ASN	CA-CB-CG	-5.95	106.65	112.60
1	72	213	GLU	CA-C-O	-5.95	114.24	120.55
1	77	112	GLN	N-CA-C	5.95	118.56	111.71
1	7t	71	GLU	CA-C-N	5.95	128.53	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	71	GLU	C-N-CA	5.95	128.53	120.44
1	7I	188	THR	N-CA-C	-5.95	105.01	112.93
1	7K	142	VAL	N-CA-C	5.95	116.69	110.62
1	7Q	178	SER	N-CA-C	5.95	118.44	110.35
1	8f	154	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
1	8U	143	ARG	N-CA-C	5.95	118.53	111.33
1	9l	11	VAL	CA-C-O	5.95	127.34	120.67
1	Z	183	ASN	CA-CB-CG	-5.95	106.65	112.60
1	ab	18	ARG	O-C-N	-5.95	115.90	122.09
1	aH	100	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	aL	115	ILE	CA-C-N	5.95	126.43	119.94
1	aL	115	ILE	C-N-CA	5.95	126.43	119.94
1	aZ	167	ARG	O-C-N	5.95	128.43	122.12
1	b0	149	SER	N-CA-CB	5.95	120.55	110.49
1	b0	163	ASP	CA-CB-CG	5.95	118.55	112.60
1	b6	62	HIS	N-CA-C	5.95	119.63	111.54
1	bN	176	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	cw	97	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	cw	202	LEU	O-C-N	-5.95	115.81	122.12
1	cX	227	LYS	O-C-N	-5.95	116.23	122.96
1	dy	164	TYR	CA-C-O	5.95	127.07	120.82
1	e9	21	ASN	CA-CB-CG	5.95	118.55	112.60
1	ef	229	ARG	CA-C-O	5.95	127.46	120.20
1	fd	114	GLN	O-C-N	-5.95	115.81	122.12
1	fs	193	ASN	CA-C-O	5.95	126.52	119.56
1	g0	21	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	g6	13	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	0	227	LYS	O-C-N	-5.95	114.67	122.59
1	v	102	SER	CA-C-N	5.95	128.18	120.44
1	v	102	SER	C-N-CA	5.95	128.18	120.44
1	x	32	PHE	CA-CB-CG	-5.95	107.85	113.80
1	J	11	VAL	O-C-N	-5.95	116.43	123.04
1	O	161	PHE	CA-C-N	5.95	128.26	120.28
1	O	161	PHE	C-N-CA	5.95	128.26	120.28
1	Q	173	ARG	NE-CZ-NH2	-5.95	113.84	119.20
1	g9	115	ILE	O-C-N	-5.95	113.91	122.12
1	ge	59	VAL	N-CA-C	5.95	117.40	109.37
1	gp	229	ARG	NE-CZ-NH2	5.95	124.56	119.20
1	gr	12	HIS	CG-CD2-NE2	5.95	113.15	107.20
1	gZ	68	MET	N-CA-CB	5.95	118.64	110.01
1	gZ	173	ARG	N-CA-C	5.95	119.37	111.75
1	h1	32	PHE	CA-C-N	5.95	129.71	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h1	32	PHE	C-N-CA	5.95	129.71	120.60
1	h5	120	HIS	CB-CG-CD2	-5.95	123.47	131.20
1	1H	133	TRP	CB-CG-CD1	5.95	135.82	126.90
1	hg	120	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	hh	26	VAL	CA-C-O	5.95	127.48	121.17
1	hn	33	SER	CA-C-O	-5.95	112.01	120.16
1	hz	83	LEU	N-CA-C	5.95	117.44	111.07
1	hA	141	ILE	N-CA-C	5.95	116.69	110.62
1	hD	226	HIS	CB-CG-CD2	-5.95	123.46	131.20
1	hR	51	ASP	CB-CA-C	-5.95	100.91	110.79
1	i4	150	ILE	CA-CB-CG1	5.95	120.52	110.40
1	ic	96	MET	CG-SD-CE	-5.95	87.81	100.90
1	ig	190	LEU	CA-C-O	5.95	127.27	120.90
1	io	68	MET	N-CA-C	5.95	117.44	111.07
1	is	174	ALA	N-CA-C	5.95	117.77	111.28
1	iX	10	MET	CG-SD-CE	-5.95	87.81	100.90
1	j9	64	ALA	CA-C-N	5.95	128.57	120.54
1	j9	64	ALA	C-N-CA	5.95	128.57	120.54
1	1U	185	MET	CG-SD-CE	-5.95	87.81	100.90
1	jp	229	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
1	jr	33	SER	CA-C-N	5.95	127.28	119.84
1	jr	33	SER	C-N-CA	5.95	127.28	119.84
1	jv	226	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	jz	18	ARG	CB-CA-C	-5.95	101.54	110.88
1	jC	33	SER	O-C-N	-5.95	115.29	121.60
1	jC	184	TRP	CA-C-N	5.95	128.25	120.28
1	jC	184	TRP	C-N-CA	5.95	128.25	120.28
1	jH	89	GLY	O-C-N	-5.95	115.82	121.77
1	1Y	20	LEU	O-C-N	5.95	128.43	122.12
1	jR	198	CYS	O-C-N	-5.95	114.25	122.46
1	jY	214	MET	CG-SD-CE	-5.95	87.81	100.90
1	1Z	205	LEU	N-CA-C	5.95	119.64	112.38
1	kg	155	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	kp	129	ILE	O-C-N	5.95	127.64	121.87
1	25	91	ILE	CA-C-O	5.95	124.14	118.90
1	l5	23	TRP	N-CA-C	5.95	117.77	111.28
1	lr	136	LEU	O-C-N	-5.95	115.81	122.12
1	ls	187	GLU	CA-C-O	5.95	129.02	120.51
1	2a	132	ARG	NE-CZ-NH2	5.95	124.56	119.20
1	2F	80	TRP	O-C-N	-5.95	115.94	122.07
1	2T	114	GLN	CA-C-N	5.95	130.06	120.30
1	2T	114	GLN	C-N-CA	5.95	130.06	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2U	20	LEU	CA-C-O	-5.95	112.77	119.79
1	2U	177	ALA	N-CA-C	5.95	118.63	110.24
1	3d	54	THR	CA-C-N	5.95	128.18	120.44
1	3d	54	THR	C-N-CA	5.95	128.18	120.44
1	3D	164	TYR	CA-C-N	5.95	128.06	120.56
1	3D	164	TYR	C-N-CA	5.95	128.06	120.56
1	3Q	215	MET	CG-SD-CE	-5.95	87.81	100.90
1	44	5	ASN	N-CA-CB	5.95	118.97	110.16
1	49	71	GLU	CA-C-O	5.95	127.07	120.82
1	4b	127	GLY	N-CA-C	5.95	120.39	112.77
1	4c	61	GLY	O-C-N	-5.95	117.23	122.88
1	4m	148	THR	O-C-N	-5.95	116.26	123.10
1	4F	50	GLN	CA-C-O	-5.95	114.57	120.82
1	4K	136	LEU	N-CA-C	5.95	117.77	111.28
1	56	198	CYS	CA-C-O	5.95	127.07	120.82
1	5u	37	ILE	O-C-N	-5.95	116.61	120.42
1	5O	149	SER	CA-C-O	5.95	128.05	121.56
1	5W	114	GLN	CA-C-N	5.95	128.61	120.46
1	5W	114	GLN	C-N-CA	5.95	128.61	120.46
1	67	123	PRO	O-C-N	-5.95	115.74	123.00
1	6p	143	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
1	6N	159	GLU	CA-C-O	-5.95	112.29	119.67
1	72	192	GLN	N-CA-C	5.95	119.80	112.54
1	77	48	THR	N-CA-C	5.95	118.11	109.84
1	78	213	GLU	N-CA-C	5.95	117.44	111.07
1	7e	87	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	7s	90	PRO	CA-C-N	5.95	130.57	123.19
1	7s	90	PRO	C-N-CA	5.95	130.57	123.19
1	7w	99	PRO	N-CA-C	5.95	120.53	111.19
1	8g	221	VAL	O-C-N	-5.95	116.83	123.26
1	8v	18	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
1	8w	114	GLN	N-CA-C	5.95	117.44	111.07
1	8x	121	ASN	CA-C-O	-5.95	113.62	119.69
1	8x	132	ARG	CD-NE-CZ	-5.95	116.07	124.40
1	8y	162	ARG	N-CA-C	5.95	118.55	111.71
1	8K	140	LYS	CA-C-O	-5.95	114.24	120.55
1	8L	220	GLY	CA-C-O	5.95	127.92	122.39
1	8W	134	ILE	N-CA-CB	5.95	117.51	110.55
1	96	157	PRO	CB-CA-C	-5.95	102.43	110.52
1	96	162	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	9b	84	HIS	N-CA-C	5.95	118.88	108.82
1	9e	121	ASN	OD1-CG-ND2	-5.95	116.65	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9v	13	GLN	CA-C-N	5.95	129.21	120.82
1	9v	13	GLN	C-N-CA	5.95	129.21	120.82
1	9E	7	GLN	CA-C-O	5.95	126.83	120.70
1	9F	123	PRO	CA-C-N	5.95	129.63	122.85
1	9F	123	PRO	C-N-CA	5.95	129.63	122.85
1	9G	101	GLY	CA-C-N	5.95	128.25	120.28
1	9G	101	GLY	C-N-CA	5.95	128.25	120.28
1	a2	51	ASP	N-CA-C	-5.95	104.71	111.14
1	a4	143	ARG	CA-C-O	-5.95	114.24	120.55
1	ah	174	ALA	O-C-N	-5.95	114.95	122.27
1	al	55	MET	O-C-N	-5.95	115.71	122.08
1	12	184	TRP	CA-C-N	5.95	128.25	120.28
1	12	184	TRP	C-N-CA	5.95	128.25	120.28
1	az	194	ALA	CA-C-N	5.95	128.94	120.49
1	az	194	ALA	C-N-CA	5.95	128.94	120.49
1	aG	14	ALA	N-CA-CB	-5.95	101.60	110.17
1	aT	191	VAL	O-C-N	-5.95	115.70	121.83
1	b1	195	ASN	CA-CB-CG	5.95	118.55	112.60
1	bw	150	ILE	N-CA-C	5.95	118.53	111.09
1	bD	82	ARG	N-CA-CB	5.95	118.97	110.16
1	bH	94	GLY	CA-C-N	5.95	132.38	121.85
1	bH	94	GLY	C-N-CA	5.95	132.38	121.85
1	bM	85	PRO	O-C-N	-5.95	115.83	123.03
1	bT	16	SER	CA-C-O	-5.95	113.68	119.51
1	c0	68	MET	CA-C-N	5.95	128.18	120.44
1	c0	68	MET	C-N-CA	5.95	128.18	120.44
1	cp	117	TRP	CA-C-O	5.95	127.07	120.82
1	1e	95	GLN	CG-CD-NE2	5.95	125.33	116.40
1	1f	87	HIS	O-C-N	-5.95	114.67	122.59
1	cD	101	GLY	CA-C-O	5.95	126.83	120.40
1	cJ	68	MET	N-CA-C	5.95	117.77	111.28
1	cR	163	ASP	N-CA-C	-5.95	106.35	113.97
1	d1	128	GLU	CB-CA-C	5.95	120.22	110.88
1	db	197	ASP	O-C-N	-5.95	115.81	122.12
1	dI	152	ASP	CA-C-O	-5.95	114.24	120.55
1	1n	45	GLU	N-CA-C	5.95	118.34	109.59
1	e5	183	ASN	CA-C-N	5.95	128.25	120.28
1	e5	183	ASN	C-N-CA	5.95	128.25	120.28
1	e6	87	HIS	N-CA-C	-5.95	98.83	108.41
1	e8	190	LEU	CA-C-N	5.95	128.87	120.42
1	e8	190	LEU	C-N-CA	5.95	128.87	120.42
1	ec	183	ASN	N-CA-C	-5.95	104.71	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ee	12	HIS	N-CA-CB	5.95	119.33	110.29
1	eq	4	GLN	N-CA-CB	5.95	120.55	110.49
1	er	26	VAL	O-C-N	-5.95	115.99	121.94
1	eA	7	GLN	N-CA-C	5.95	118.22	110.43
1	eE	152	ASP	N-CA-C	5.95	117.85	111.36
1	f8	23	TRP	CB-CG-CD1	-5.95	117.97	126.90
1	fi	28	GLU	CA-C-O	5.95	126.83	120.70
1	fi	112	GLN	N-CA-C	5.95	118.25	111.11
1	fk	182	LYS	N-CA-CB	5.95	118.87	110.12
1	1y	99	PRO	N-CA-CB	5.95	109.03	102.72
1	1y	210	THR	N-CA-CB	5.95	119.47	110.42
1	g6	22	ALA	N-CA-C	5.95	117.44	111.07
1	g6	194	ALA	N-CA-C	5.95	118.44	110.35
1	l	20	LEU	N-CA-C	5.95	117.77	111.28
1	p	210	THR	CA-C-O	5.95	128.74	121.72
1	y	84	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	C	133	TRP	CE3-CZ3-CH2	5.95	128.84	121.10
1	T	167	ARG	CA-C-N	5.95	128.18	120.44
1	T	167	ARG	C-N-CA	5.95	128.18	120.44
1	V	103	ASP	CA-CB-CG	-5.95	106.65	112.60
1	7	198	CYS	N-CA-C	-5.95	105.11	112.90
1	gd	143	ARG	CA-C-N	5.95	129.35	120.31
1	gd	143	ARG	C-N-CA	5.95	129.35	120.31
1	gy	109	SER	O-C-N	-5.95	116.31	123.27
1	gD	193	ASN	O-C-N	-5.95	115.03	122.35
1	gR	124	ILE	O-C-N	-5.95	114.32	121.10
1	h3	195	ASN	CA-C-N	5.95	125.65	119.05
1	h3	195	ASN	C-N-CA	5.95	125.65	119.05
1	h6	195	ASN	CB-CA-C	5.95	119.22	109.46
1	hi	187	GLU	N-CA-C	5.95	120.40	113.20
1	hr	123	PRO	CB-CA-C	5.95	119.19	111.64
1	hs	213	GLU	N-CA-C	5.95	118.25	111.11
1	hw	201	ILE	N-CA-C	5.95	116.73	110.72
1	hF	15	ILE	N-CA-C	5.95	118.19	109.63
1	1L	197	ASP	CA-CB-CG	-5.95	106.65	112.60
1	hR	87	HIS	ND1-CE1-NE2	5.95	114.35	108.40
1	i7	82	ARG	CA-C-N	5.95	128.17	120.44
1	i7	82	ARG	C-N-CA	5.95	128.17	120.44
1	i9	230	VAL	CA-C-O	5.95	126.67	120.36
1	if	98	GLU	O-C-N	-5.95	116.01	121.30
1	ij	120	HIS	N-CA-C	5.95	118.86	110.23
1	il	131	LYS	CA-C-N	5.95	128.74	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	131	LYS	C-N-CA	5.95	128.74	120.29
1	1P	146	SER	N-CA-C	5.95	122.96	109.81
1	iu	27	VAL	N-CA-C	5.95	116.69	110.62
1	iD	141	ILE	O-C-N	-5.95	116.10	121.87
1	iL	152	ASP	O-C-N	-5.95	115.03	122.35
1	iR	72	THR	CA-C-N	5.95	128.87	120.42
1	iR	72	THR	C-N-CA	5.95	128.87	120.42
1	j5	25	LYS	N-CA-C	5.95	118.25	111.11
1	jc	189	LEU	CA-C-O	5.95	126.81	119.97
1	jj	77	ALA	N-CA-C	5.95	117.84	111.36
1	jq	98	GLU	CA-C-N	5.95	125.92	120.03
1	jq	98	GLU	C-N-CA	5.95	125.92	120.03
1	jr	152	ASP	CA-C-O	5.95	126.86	119.78
1	jK	136	LEU	N-CA-C	5.95	118.28	111.02
1	jP	197	ASP	CA-C-N	5.95	128.53	120.38
1	jP	197	ASP	C-N-CA	5.95	128.53	120.38
1	kq	136	LEU	CB-CA-C	5.95	120.66	110.79
1	kC	3	VAL	N-CA-CB	5.95	118.10	110.13
1	kN	8	GLY	O-C-N	-5.95	116.24	122.60
1	kW	166	ASP	CA-C-N	5.95	128.53	120.44
1	kW	166	ASP	C-N-CA	5.95	128.53	120.44
1	lq	78	ALA	N-CA-C	5.95	117.44	111.07
1	28	153	ILE	CA-C-N	5.95	132.38	121.85
1	28	153	ILE	C-N-CA	5.95	132.38	121.85
1	lu	70	LYS	CA-C-N	5.95	128.53	120.38
1	lu	70	LYS	C-N-CA	5.95	128.53	120.38
1	lK	222	GLY	O-C-N	-5.95	114.97	122.70
1	lL	141	ILE	N-CA-C	5.95	116.13	110.42
1	2a	162	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	lN	86	VAL	N-CA-C	5.95	121.72	109.34
1	2e	23	TRP	N-CA-C	5.95	117.44	111.07
1	2u	59	VAL	N-CA-C	5.95	117.40	109.37
1	2w	148	THR	CA-CB-CG2	5.95	120.61	110.50
1	2w	161	PHE	CA-C-N	5.95	128.57	120.54
1	2w	161	PHE	C-N-CA	5.95	128.57	120.54
1	2y	52	LEU	CA-C-O	-5.95	114.25	120.55
1	2P	126	VAL	N-CA-CB	5.95	118.63	110.54
1	36	212	GLU	N-CA-CB	5.95	118.86	110.12
1	3D	165	VAL	N-CA-CB	5.95	117.51	110.55
1	3T	21	ASN	CA-CB-CG	5.95	118.55	112.60
1	4i	62	HIS	CA-CB-CG	5.95	119.75	113.80
1	4o	227	LYS	CB-CA-C	5.95	119.83	111.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	137	GLY	CA-C-N	5.95	128.17	120.44
1	4E	137	GLY	C-N-CA	5.95	128.17	120.44
1	4O	170	LYS	CA-C-N	5.95	128.25	120.28
1	4O	170	LYS	C-N-CA	5.95	128.25	120.28
1	4Q	34	PRO	N-CA-CB	5.95	109.22	103.51
1	4S	25	LYS	N-CA-C	5.95	117.76	111.28
1	4V	171	THR	N-CA-CB	5.95	118.86	109.82
1	51	63	GLN	N-CA-C	5.95	118.72	111.82
1	54	162	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	58	71	GLU	CA-C-O	5.95	126.86	120.55
1	5j	227	LYS	CB-CA-C	5.95	121.25	112.09
1	5o	48	THR	CA-C-N	5.95	127.28	119.84
1	5o	48	THR	C-N-CA	5.95	127.28	119.84
1	5B	67	GLN	CB-CG-CD	5.95	122.71	112.60
1	5C	120	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	5D	115	ILE	O-C-N	-5.95	116.10	121.87
1	5R	175	GLU	N-CA-C	5.95	118.89	110.50
1	5S	122	PRO	CA-C-N	5.95	126.29	119.93
1	5S	122	PRO	C-N-CA	5.95	126.29	119.93
1	5T	37	ILE	N-CA-C	5.95	121.23	112.61
1	5T	136	LEU	N-CA-CB	-5.95	101.39	110.01
1	5Z	214	MET	CG-SD-CE	-5.95	87.81	100.90
1	66	181	VAL	N-CA-C	5.95	118.53	111.09
1	6c	128	GLU	O-C-N	5.95	128.43	122.12
1	6f	51	ASP	CA-C-O	5.95	126.72	120.42
1	6l	140	LYS	CA-C-N	5.95	128.06	120.56
1	6l	140	LYS	C-N-CA	5.95	128.06	120.56
1	6m	162	ARG	N-CA-C	5.95	119.36	111.75
1	6m	162	ARG	NE-CZ-NH2	5.95	124.55	119.20
1	6G	102	SER	O-C-N	-5.95	115.26	122.22
1	70	18	ARG	CA-C-N	5.95	128.53	120.44
1	70	18	ARG	C-N-CA	5.95	128.53	120.44
1	75	166	ASP	N-CA-CB	-5.95	101.38	110.12
1	7D	162	ARG	CA-C-N	5.95	128.25	120.28
1	7D	162	ARG	C-N-CA	5.95	128.25	120.28
1	7R	97	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	7Y	141	ILE	N-CA-C	5.95	116.69	110.62
1	8e	12	HIS	N-CA-C	5.95	119.22	109.76
1	8e	154	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	8g	74	ASN	N-CA-C	5.95	117.44	111.07
1	8q	163	ASP	CA-CB-CG	-5.95	106.65	112.60
1	8u	80	TRP	CA-CB-CG	5.95	124.90	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8V	134	ILE	CA-C-N	5.95	128.61	120.46
1	8V	134	ILE	C-N-CA	5.95	128.61	120.46
1	8V	187	GLU	N-CA-C	5.95	117.44	111.07
1	8X	70	LYS	O-C-N	-5.95	115.94	122.07
1	9f	3	VAL	CA-C-N	5.95	130.94	121.66
1	9f	3	VAL	C-N-CA	5.95	130.94	121.66
1	9f	67	GLN	CB-CG-CD	5.95	122.71	112.60
1	9k	62	HIS	ND1-CG-CD2	5.95	112.05	106.10
1	9p	143	ARG	NE-CZ-NH1	-5.95	115.55	121.50
1	9G	26	VAL	CA-C-N	5.95	130.52	120.29
1	9G	26	VAL	C-N-CA	5.95	130.52	120.29
1	9M	52	LEU	O-C-N	-5.95	114.95	122.27
1	a4	147	PRO	O-C-N	-5.95	115.59	122.85
1	13	176	GLN	OE1-CD-NE2	5.95	128.55	122.60
1	aF	7	GLN	O-C-N	-5.95	114.23	122.20
1	aL	191	VAL	CB-CA-C	-5.95	104.11	112.14
1	aW	71	GLU	O-C-N	-5.95	114.95	122.27
1	ba	213	GLU	CA-C-N	5.95	128.25	120.28
1	ba	213	GLU	C-N-CA	5.95	128.25	120.28
1	by	207	PRO	N-CA-C	5.95	124.72	112.47
1	bV	225	GLY	CA-C-O	5.95	126.46	120.09
1	bX	205	LEU	CA-C-N	5.95	131.21	121.87
1	bX	205	LEU	C-N-CA	5.95	131.21	121.87
1	c0	115	ILE	CA-C-N	5.95	126.42	119.94
1	c0	115	ILE	C-N-CA	5.95	126.42	119.94
1	cr	200	THR	N-CA-C	5.95	118.25	111.11
1	cD	95	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	d1	31	ALA	O-C-N	-5.95	115.42	122.20
1	dh	105	ALA	CB-CA-C	5.95	121.36	110.36
1	dn	24	VAL	N-CA-C	5.95	116.13	110.42
1	do	41	SER	CA-C-N	5.95	128.85	120.28
1	do	41	SER	C-N-CA	5.95	128.85	120.28
1	dr	183	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	dA	119	THR	CA-CB-OG1	5.95	118.52	109.60
1	dK	136	LEU	CA-C-N	5.95	126.54	119.94
1	dK	136	LEU	C-N-CA	5.95	126.54	119.94
1	dL	193	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	eh	59	VAL	O-C-N	-5.95	116.17	122.83
1	ej	176	GLN	CA-C-O	-5.95	114.22	120.58
1	eD	153	ILE	N-CA-C	5.95	120.37	112.04
1	eR	170	LYS	N-CA-C	5.95	117.76	111.28
1	eV	95	GLN	OE1-CD-NE2	5.95	128.55	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f5	203	LYS	N-CA-CB	5.95	118.61	109.98
1	f8	26	VAL	CA-C-N	5.95	128.61	120.46
1	f8	26	VAL	C-N-CA	5.95	128.61	120.46
1	fq	229	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	ft	100	ARG	NE-CZ-NH1	5.95	127.45	121.50
1	fI	4	GLN	N-CA-C	5.95	118.86	110.23
1	fL	33	SER	N-CA-C	5.95	117.19	109.64
1	fL	163	ASP	N-CA-C	5.95	117.77	111.28
1	fO	140	LYS	N-CA-C	5.95	117.43	111.07
1	fS	84	HIS	CG-CD2-NE2	5.95	113.15	107.20
1	fV	203	LYS	CA-C-N	5.95	128.17	120.44
1	fV	203	LYS	C-N-CA	5.95	128.17	120.44
1	g1	100	ARG	CA-C-N	5.95	126.69	120.03
1	g1	100	ARG	C-N-CA	5.95	126.69	120.03
1	g1	210	THR	N-CA-C	5.95	118.22	110.43
1	g5	66	MET	CG-SD-CE	-5.95	87.81	100.90
1	v	103	ASP	CA-C-O	5.95	127.06	120.82
1	x	165	VAL	CB-CA-C	5.95	119.58	111.97
1	y	202	LEU	N-CA-C	5.95	117.44	111.07
1	S	217	ALA	CA-C-O	-5.95	114.57	120.82
1	X	205	LEU	N-CA-C	5.95	118.72	111.82
1	1C	101	GLY	O-C-N	-5.95	115.22	122.71
1	gx	122	PRO	N-CA-CB	5.95	109.14	102.60
1	gU	228	ALA	O-C-N	-5.95	115.84	122.86
1	h5	53	ASN	OD1-CG-ND2	-5.95	116.65	122.60
1	hy	135	ILE	N-CA-C	5.95	118.52	111.09
1	hF	223	GLY	O-C-N	-5.95	115.82	121.77
1	hR	64	ALA	CA-C-N	5.95	128.74	120.29
1	hR	64	ALA	C-N-CA	5.95	128.74	120.29
1	it	126	VAL	N-CA-C	5.95	117.40	110.62
1	jf	168	PHE	N-CA-C	5.95	117.84	111.36
1	jk	33	SER	CA-C-N	-5.95	113.52	120.12
1	jk	33	SER	C-N-CA	-5.95	113.52	120.12
1	jk	119	THR	CA-CB-OG1	5.95	118.52	109.60
1	ju	213	GLU	N-CA-C	5.95	117.84	111.36
1	jH	54	THR	CA-C-N	5.95	128.25	120.28
1	jH	54	THR	C-N-CA	5.95	128.25	120.28
1	jN	180	GLU	N-CA-C	5.95	117.76	111.28
1	kK	121	ASN	CB-CG-ND2	-5.95	107.48	116.40
1	lq	226	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	29	24	VAL	CA-C-N	5.95	128.25	120.28
1	29	24	VAL	C-N-CA	5.95	128.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lG	125	PRO	CA-C-N	5.95	130.05	120.30
1	lG	125	PRO	C-N-CA	5.95	130.05	120.30
1	lP	52	LEU	N-CA-C	5.95	117.43	111.07
1	3D	47	ALA	CA-C-N	5.95	129.72	120.68
1	3D	47	ALA	C-N-CA	5.95	129.72	120.68
1	3J	125	PRO	CA-C-N	5.95	128.61	120.46
1	3J	125	PRO	C-N-CA	5.95	128.61	120.46
1	3O	92	GLU	CA-C-N	5.95	127.27	119.84
1	3O	92	GLU	C-N-CA	5.95	127.27	119.84
1	3Q	174	ALA	N-CA-C	5.95	118.53	111.33
1	47	36	VAL	CA-C-O	5.95	126.89	120.47
1	5q	18	ARG	O-C-N	-5.95	115.37	122.15
1	5Q	190	LEU	N-CA-C	5.95	118.55	111.71
1	6f	201	ILE	N-CA-C	5.95	116.12	110.53
1	7h	218	CYS	N-CA-CB	5.95	120.54	110.49
1	7H	158	LYS	N-CA-C	-5.95	103.48	111.87
1	85	213	GLU	CB-CG-CD	-5.95	102.49	112.60
1	8d	173	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	8r	20	LEU	CA-C-N	5.95	128.25	120.28
1	8r	20	LEU	C-N-CA	5.95	128.25	120.28
1	8t	192	GLN	N-CA-C	5.95	117.43	111.07
1	8A	173	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	8T	71	GLU	CA-C-N	5.95	128.25	120.28
1	8T	71	GLU	C-N-CA	5.95	128.25	120.28
1	9r	62	HIS	CA-CB-CG	-5.95	107.85	113.80
1	9S	185	MET	N-CA-C	-5.95	104.71	111.07
1	an	195	ASN	O-C-N	-5.95	114.77	121.43
1	az	173	ARG	CA-C-N	5.95	128.57	120.54
1	az	173	ARG	C-N-CA	5.95	128.57	120.54
1	aR	131	LYS	O-C-N	5.95	128.42	122.12
1	aV	31	ALA	N-CA-C	5.95	119.60	111.39
1	ba	114	GLN	CB-CA-C	5.95	120.33	110.81
1	ba	140	LYS	CA-C-N	5.95	128.86	120.42
1	ba	140	LYS	C-N-CA	5.95	128.86	120.42
1	c5	82	ARG	NE-CZ-NH2	5.95	124.55	119.20
1	db	137	GLY	CA-C-O	-5.95	114.92	121.05
1	dk	191	VAL	N-CA-CB	5.95	117.51	110.55
1	dE	91	ILE	N-CA-C	-5.95	106.95	113.43
1	dQ	225	GLY	CA-C-O	5.95	126.82	120.40
1	1o	100	ARG	O-C-N	-5.95	116.01	122.79
1	ea	208	ALA	CA-C-O	5.95	126.31	119.35
1	eu	160	PRO	CB-CA-C	5.95	118.84	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f0	195	ASN	CB-CA-C	5.95	118.84	109.27
1	fr	115	ILE	CA-C-N	5.95	127.77	120.22
1	fr	115	ILE	C-N-CA	5.95	127.77	120.22
1	fB	168	PHE	N-CA-C	5.95	117.43	111.07
1	fE	63	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	0	115	ILE	CA-C-O	5.95	127.15	120.85
1	f	229	ARG	O-C-N	-5.95	115.50	123.23
1	k	117	TRP	CZ3-CH2-CZ2	-5.95	113.77	121.50
1	s	141	ILE	N-CA-C	5.95	116.60	110.36
1	2	120	HIS	CA-CB-CG	5.95	119.75	113.80
1	H	85	PRO	CA-C-N	5.95	129.07	120.98
1	H	85	PRO	C-N-CA	5.95	129.07	120.98
1	7	87	HIS	CB-CG-CD2	-5.95	123.47	131.20
1	gf	182	LYS	CA-CB-CG	-5.95	102.21	114.10
1	gh	87	HIS	CE1-NE2-CD2	-5.95	103.05	109.00
1	gj	133	TRP	CB-CG-CD1	5.95	135.82	126.90
1	gN	7	GLN	O-C-N	-5.95	114.72	122.39
1	h5	209	ALA	N-CA-C	5.95	118.35	109.25
1	hb	99	PRO	CB-CA-C	5.95	118.84	111.23
1	hc	156	GLY	N-CA-C	5.95	124.47	112.34
1	he	48	THR	CA-C-N	5.95	126.10	119.32
1	he	48	THR	C-N-CA	5.95	126.10	119.32
1	hk	11	VAL	O-C-N	-5.95	116.90	123.20
1	ht	126	VAL	O-C-N	-5.95	116.10	121.87
1	hG	4	GLN	OE1-CD-NE2	-5.95	116.66	122.60
1	hI	67	GLN	O-C-N	-5.95	115.72	122.08
1	1M	207	PRO	N-CA-CB	5.95	109.49	103.25
1	i0	62	HIS	CA-CB-CG	5.95	119.75	113.80
1	i1	129	ILE	O-C-N	-5.95	116.10	121.87
1	ig	58	THR	O-C-N	-5.95	115.72	122.08
1	ij	124	ILE	CA-CB-CG1	-5.95	100.29	110.40
1	il	138	LEU	CA-C-N	5.95	128.17	120.44
1	il	138	LEU	C-N-CA	5.95	128.17	120.44
1	iF	139	ASN	CA-C-O	-5.95	114.25	120.55
1	1S	33	SER	CA-C-O	-5.95	114.16	120.28
1	1S	88	ALA	CA-C-N	5.95	131.20	121.87
1	1S	88	ALA	C-N-CA	5.95	131.20	121.87
1	iS	136	LEU	CA-C-N	5.95	126.71	119.99
1	iS	136	LEU	C-N-CA	5.95	126.71	119.99
1	j1	21	ASN	CA-C-N	5.95	128.53	120.38
1	j1	21	ASN	C-N-CA	5.95	128.53	120.38
1	j7	108	THR	CA-CB-CG2	-5.95	100.39	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jv	56	LEU	CA-C-O	5.95	126.81	119.97
1	1W	15	ILE	CB-CA-C	5.95	118.13	111.59
1	jA	117	TRP	CG-CD2-CE3	-5.95	127.95	133.90
1	jC	36	VAL	CA-C-N	5.95	125.09	120.33
1	jC	36	VAL	C-N-CA	5.95	125.09	120.33
1	jD	73	ILE	CB-CA-C	-5.95	104.36	111.97
1	jL	50	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	jL	148	THR	N-CA-C	5.95	118.67	110.35
1	jM	69	LEU	CA-C-O	-5.95	114.58	120.82
1	jT	96	MET	CA-C-N	5.95	129.73	120.75
1	jT	96	MET	C-N-CA	5.95	129.73	120.75
1	1Z	3	VAL	N-CA-C	5.95	116.44	108.11
1	k5	154	ARG	NE-CZ-NH2	5.95	124.55	119.20
1	ka	125	PRO	CA-C-N	5.95	128.61	120.46
1	ka	125	PRO	C-N-CA	5.95	128.61	120.46
1	kd	45	GLU	N-CA-C	5.95	118.96	110.10
1	kg	182	LYS	O-C-N	5.95	128.42	122.12
1	km	184	TRP	CB-CG-CD1	-5.95	117.98	126.90
1	kW	3	VAL	N-CA-CB	5.95	121.73	111.39
1	l2	59	VAL	CA-C-N	5.95	133.06	121.41
1	l2	59	VAL	C-N-CA	5.95	133.06	121.41
1	lb	183	ASN	CA-C-N	5.95	128.73	120.29
1	lb	183	ASN	C-N-CA	5.95	128.73	120.29
1	le	162	ARG	N-CA-C	5.95	117.76	111.28
1	lf	115	ILE	O-C-N	-5.95	116.10	121.87
1	lm	111	LEU	CA-C-N	5.95	128.25	120.28
1	lm	111	LEU	C-N-CA	5.95	128.25	120.28
1	lu	210	THR	CA-CB-CG2	-5.95	100.39	110.50
1	lx	58	THR	CA-C-O	5.95	125.59	119.05
1	2c	81	ASP	N-CA-C	5.95	117.84	111.36
1	2l	10	MET	CG-SD-CE	-5.95	87.82	100.90
1	2m	96	MET	CB-CA-C	-5.95	99.48	109.65
1	2o	87	HIS	CB-CG-CD2	5.95	138.93	131.20
1	2r	74	ASN	CA-CB-CG	5.95	118.55	112.60
1	2H	173	ARG	O-C-N	-5.95	115.37	122.27
1	2M	171	THR	N-CA-CB	5.95	119.45	110.30
1	39	125	PRO	CA-C-N	5.95	132.67	121.97
1	39	125	PRO	C-N-CA	5.95	132.67	121.97
1	3u	87	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	3A	154	ARG	O-C-N	-5.95	116.14	123.33
1	3G	197	ASP	CA-C-O	5.95	126.72	120.42
1	3H	104	ILE	O-C-N	-5.95	116.10	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3H	158	LYS	O-C-N	-5.95	115.17	122.19
1	3R	190	LEU	N-CA-C	5.95	117.76	111.28
1	4a	26	VAL	N-CA-C	-5.95	103.97	112.35
1	4m	224	PRO	O-C-N	-5.95	116.50	122.98
1	4o	79	GLU	CA-C-N	5.95	128.17	120.44
1	4o	79	GLU	C-N-CA	5.95	128.17	120.44
1	4C	124	ILE	CB-CG1-CD1	5.95	126.29	113.80
1	4I	160	PRO	N-CA-CB	5.95	108.31	103.32
1	4R	51	ASP	CA-C-N	5.95	128.25	120.28
1	4R	51	ASP	C-N-CA	5.95	128.25	120.28
1	56	173	ARG	NH1-CZ-NH2	-5.95	111.57	119.30
1	57	166	ASP	CA-CB-CG	5.95	118.55	112.60
1	5q	86	VAL	CA-CB-CG2	-5.95	100.29	110.40
1	5s	140	LYS	O-C-N	-5.95	115.37	122.15
1	5z	115	ILE	O-C-N	5.95	127.74	121.91
1	63	84	HIS	CB-CA-C	-5.95	102.61	110.34
1	6h	192	GLN	OE1-CD-NE2	-5.95	116.65	122.60
1	6r	230	VAL	N-CA-CB	5.95	117.62	110.31
1	6I	33	SER	CA-C-O	-5.95	115.15	120.56
1	6W	82	ARG	CA-C-N	5.95	131.54	121.14
1	6W	82	ARG	C-N-CA	5.95	131.54	121.14
1	6W	167	ARG	N-CA-C	5.95	117.76	111.28
1	78	107	THR	CA-C-O	5.95	126.13	119.41
1	7q	66	MET	O-C-N	-5.95	115.82	122.12
1	7z	214	MET	N-CA-C	5.95	118.27	111.02
1	7R	98	GLU	CA-C-N	5.95	127.27	119.84
1	7R	98	GLU	C-N-CA	5.95	127.27	119.84
1	7W	131	LYS	CA-C-N	5.95	128.25	120.28
1	7W	131	LYS	C-N-CA	5.95	128.25	120.28
1	7Y	181	VAL	O-C-N	-5.95	115.71	121.83
1	7Z	202	LEU	N-CA-CB	5.95	118.96	110.16
1	86	210	THR	CA-CB-CG2	5.95	120.61	110.50
1	8a	198	CYS	N-CA-C	5.95	117.43	111.07
1	8p	71	GLU	CA-C-N	5.95	128.57	120.54
1	8p	71	GLU	C-N-CA	5.95	128.57	120.54
1	8C	5	ASN	CA-CB-CG	5.95	118.55	112.60
1	93	12	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	95	201	ILE	N-CA-CB	-5.95	102.96	110.57
1	9i	18	ARG	NE-CZ-NH2	5.95	124.55	119.20
1	9s	71	GLU	CA-C-N	5.95	128.17	120.44
1	9s	71	GLU	C-N-CA	5.95	128.17	120.44
1	9v	195	ASN	CA-CB-CG	-5.95	106.65	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a0	50	GLN	CA-C-N	5.95	128.53	120.44
1	a0	50	GLN	C-N-CA	5.95	128.53	120.44
1	af	165	VAL	O-C-N	-5.95	116.10	121.87
1	aH	18	ARG	NE-CZ-NH1	5.95	127.44	121.50
1	aH	165	VAL	CA-C-O	5.95	127.45	121.27
1	bg	119	THR	N-CA-C	-5.95	104.16	113.02
1	bh	80	TRP	CB-CA-C	-5.95	101.55	110.88
1	bo	142	VAL	O-C-N	-5.95	116.08	121.91
1	bt	150	ILE	CA-C-O	5.95	124.13	118.90
1	bv	68	MET	CG-SD-CE	-5.95	87.82	100.90
1	bG	132	ARG	CA-C-N	5.95	128.25	120.28
1	bG	132	ARG	C-N-CA	5.95	128.25	120.28
1	bM	123	PRO	N-CA-CB	5.95	108.84	103.19
1	bW	147	PRO	N-CD-CG	5.95	112.12	103.20
1	c3	226	HIS	ND1-CG-CD2	-5.95	100.15	106.10
1	cm	45	GLU	N-CA-C	5.95	119.44	110.64
1	cm	144	MET	O-C-N	-5.95	115.95	122.07
1	cC	224	PRO	N-CA-CB	5.95	108.54	103.19
1	cR	165	VAL	O-C-N	-5.95	116.10	121.87
1	cU	46	GLY	CA-C-N	5.95	129.82	121.02
1	cU	46	GLY	C-N-CA	5.95	129.82	121.02
1	cU	144	MET	O-C-N	-5.95	115.37	122.15
1	dn	201	ILE	CB-CA-C	-5.95	104.36	111.97
1	dH	214	MET	CA-C-N	5.95	128.84	120.28
1	dH	214	MET	C-N-CA	5.95	128.84	120.28
1	dQ	87	HIS	O-C-N	-5.95	115.72	122.97
1	ev	81	ASP	CA-CB-CG	5.95	118.55	112.60
1	eR	117	TRP	O-C-N	-5.95	115.95	122.07
1	fc	84	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	fA	44	SER	O-C-N	-5.95	113.75	122.43
1	fH	5	ASN	OD1-CG-ND2	-5.95	116.66	122.60
1	fO	84	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	3	160	PRO	CA-C-N	5.95	128.25	120.28
1	3	160	PRO	C-N-CA	5.95	128.25	120.28
1	H	183	ASN	N-CA-C	5.95	117.76	111.28
1	J	78	ALA	CA-C-O	5.95	127.06	120.82
1	P	99	PRO	O-C-N	-5.95	116.50	122.98
1	Q	79	GLU	CA-C-N	5.95	128.25	120.28
1	Q	79	GLU	C-N-CA	5.95	128.25	120.28
1	R	207	PRO	N-CA-C	5.95	120.95	111.26
1	W	163	ASP	CA-C-N	5.95	128.50	120.65
1	W	163	ASP	C-N-CA	5.95	128.50	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	87	HIS	CE1-NE2-CD2	-5.95	103.06	109.00
1	gh	169	TYR	CA-C-N	5.94	128.17	120.44
1	gh	169	TYR	C-N-CA	5.94	128.17	120.44
1	go	153	ILE	CA-C-N	5.94	132.37	121.85
1	go	153	ILE	C-N-CA	5.94	132.37	121.85
1	gx	223	GLY	CA-C-N	5.94	127.27	119.84
1	gx	223	GLY	C-N-CA	5.94	127.27	119.84
1	h3	189	LEU	O-C-N	-5.94	115.00	122.19
1	hf	132	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	hr	22	ALA	CA-C-N	5.94	128.25	120.28
1	hr	22	ALA	C-N-CA	5.94	128.25	120.28
1	ik	193	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	iv	164	TYR	CA-C-O	-5.94	114.12	120.42
1	j2	108	THR	O-C-N	-5.94	115.21	122.34
1	js	16	SER	N-CA-CB	5.94	118.69	110.01
1	jF	145	TYR	N-CA-C	-5.94	105.94	112.72
1	jJ	35	GLU	O-C-N	-5.94	113.75	122.43
1	k2	58	THR	N-CA-C	-5.94	105.99	113.72
1	kD	36	VAL	N-CA-C	5.94	118.52	111.09
1	ln	166	ASP	CA-C-N	5.94	128.52	120.44
1	ln	166	ASP	C-N-CA	5.94	128.52	120.44
1	lR	171	THR	CA-C-N	5.94	128.17	120.44
1	lR	171	THR	C-N-CA	5.94	128.17	120.44
1	2t	131	LYS	N-CA-C	5.94	118.52	111.33
1	2D	130	TYR	CA-C-N	5.94	128.73	120.29
1	2D	130	TYR	C-N-CA	5.94	128.73	120.29
1	2X	108	THR	CA-CB-CG2	-5.94	100.39	110.50
1	3m	121	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	3n	87	HIS	CA-CB-CG	5.94	119.74	113.80
1	3r	94	GLY	O-C-N	-5.94	117.18	122.77
1	3B	110	THR	N-CA-C	5.94	118.22	110.43
1	4b	52	LEU	O-C-N	-5.94	115.37	122.15
1	4W	159	GLU	CA-C-O	-5.94	114.72	119.71
1	56	8	GLY	O-C-N	-5.94	115.21	122.76
1	5g	113	GLU	O-C-N	-5.94	115.67	122.09
1	5k	177	ALA	N-CA-C	5.94	118.62	110.24
1	5l	37	ILE	O-C-N	-5.94	115.85	120.07
1	5y	62	HIS	N-CA-C	5.94	118.45	111.02
1	64	91	ILE	CA-C-N	5.94	129.69	120.60
1	64	91	ILE	C-N-CA	5.94	129.69	120.60
1	6h	168	PHE	N-CA-CB	-5.94	101.45	110.07
1	6t	22	ALA	CA-C-O	5.94	127.06	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6w	20	LEU	O-C-N	-5.94	115.95	122.07
1	6w	48	THR	CA-C-N	5.94	125.82	119.28
1	6w	48	THR	C-N-CA	5.94	125.82	119.28
1	6Q	182	LYS	N-CA-C	5.94	117.76	111.28
1	6W	131	LYS	CA-C-N	5.94	128.84	120.28
1	6W	131	LYS	C-N-CA	5.94	128.84	120.28
1	77	50	GLN	CA-C-O	5.94	126.85	120.55
1	7u	56	LEU	N-CA-C	5.94	117.84	111.36
1	85	111	LEU	CA-C-N	5.94	128.17	120.44
1	85	111	LEU	C-N-CA	5.94	128.17	120.44
1	8l	21	ASN	N-CA-CB	-5.94	101.07	110.28
1	8y	191	VAL	CA-C-N	5.94	128.17	120.44
1	8y	191	VAL	C-N-CA	5.94	128.17	120.44
1	9E	137	GLY	N-CA-C	5.94	119.86	112.73
1	Z	85	PRO	CB-CA-C	5.94	119.44	111.71
1	ac	104	ILE	CA-C-O	5.94	127.13	120.95
1	az	124	ILE	CB-CA-C	5.94	122.18	111.36
1	aG	106	GLY	CA-C-N	5.94	128.71	120.63
1	aG	106	GLY	C-N-CA	5.94	128.71	120.63
1	aY	221	VAL	N-CA-CB	5.94	117.50	110.55
1	bd	20	LEU	N-CA-C	5.94	118.55	111.71
1	bq	80	TRP	N-CA-C	5.94	117.76	111.28
1	cx	80	TRP	N-CA-C	5.94	117.43	111.07
1	cI	185	MET	N-CA-CB	5.94	118.63	110.01
1	cN	92	GLU	N-CA-C	5.94	120.98	113.25
1	cU	163	ASP	O-C-N	-5.94	115.82	122.12
1	dj	91	ILE	CA-C-O	-5.94	113.83	120.25
1	dt	193	ASN	CA-CB-CG	-5.94	106.66	112.60
1	e9	139	ASN	N-CA-C	5.94	117.43	111.07
1	ek	104	ILE	N-CA-C	5.94	116.60	110.36
1	eC	204	ALA	O-C-N	-5.94	115.82	122.12
1	eI	92	GLU	O-C-N	-5.94	114.48	121.32
1	eW	183	ASN	CB-CG-ND2	5.94	125.31	116.40
1	fl	164	TYR	N-CA-C	5.94	118.24	111.11
1	fs	26	VAL	N-CA-C	5.94	116.41	110.23
1	fE	198	CYS	CA-C-N	5.94	129.34	120.31
1	fE	198	CYS	C-N-CA	5.94	129.34	120.31
1	1D	109	SER	N-CA-CB	5.94	120.83	111.20
1	gz	41	SER	O-C-N	-5.94	115.82	122.12
1	1G	168	PHE	O-C-N	-5.94	115.85	122.03
1	gW	198	CYS	N-CA-C	5.94	117.76	111.28
1	h2	194	ALA	N-CA-C	5.94	118.37	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	103	ASP	N-CA-C	5.94	117.76	111.28
1	h9	89	GLY	CA-C-N	5.94	125.33	118.85
1	h9	89	GLY	C-N-CA	5.94	125.33	118.85
1	hb	45	GLU	N-CA-C	-5.94	100.16	109.25
1	ho	15	ILE	CA-CB-CG1	5.94	120.50	110.40
1	hN	184	TRP	CA-C-O	5.94	126.85	120.55
1	i2	66	MET	N-CA-C	5.94	120.37	113.18
1	ie	57	ASN	CA-C-O	5.94	126.22	119.27
1	it	12	HIS	CB-CG-ND1	5.94	131.62	122.70
1	it	76	GLU	N-CA-C	5.94	117.43	111.07
1	iD	82	ARG	NH1-CZ-NH2	-5.94	111.58	119.30
1	iL	89	GLY	CA-C-O	-5.94	113.02	121.52
1	iT	24	VAL	CA-C-N	5.94	128.73	120.29
1	iT	24	VAL	C-N-CA	5.94	128.73	120.29
1	iT	151	LEU	CA-C-O	5.94	126.30	119.35
1	jb	199	LYS	CA-C-N	5.94	128.24	120.28
1	jb	199	LYS	C-N-CA	5.94	128.24	120.28
1	jg	119	THR	CA-C-O	5.94	126.85	119.78
1	jj	126	VAL	N-CA-C	5.94	118.48	111.05
1	1V	221	VAL	N-CA-C	-5.94	105.06	110.82
1	jp	36	VAL	O-C-N	-5.94	115.87	121.87
1	jA	157	PRO	N-CA-C	5.94	122.43	113.81
1	jD	57	ASN	OD1-CG-ND2	5.94	128.54	122.60
1	jQ	51	ASP	CA-CB-CG	-5.94	106.66	112.60
1	jR	92	GLU	N-CA-C	5.94	121.60	113.16
1	1Z	218	CYS	N-CA-C	-5.94	105.79	113.16
1	21	172	LEU	O-C-N	-5.94	115.27	122.22
1	kq	65	ALA	N-CA-C	5.94	117.84	111.36
1	kB	58	THR	N-CA-C	5.94	118.52	111.33
1	24	181	VAL	CB-CA-C	5.94	119.81	112.02
1	kO	62	HIS	CB-CG-ND1	-5.94	113.79	122.70
1	kW	187	GLU	N-CA-C	5.94	117.43	111.07
1	lj	152	ASP	CA-C-O	5.94	126.80	119.97
1	ll	147	PRO	CB-CA-C	5.94	118.65	111.46
1	lH	73	ILE	CA-C-N	5.94	128.24	120.28
1	lH	73	ILE	C-N-CA	5.94	128.24	120.28
1	lJ	102	SER	N-CA-C	5.94	118.54	111.71
1	2e	135	ILE	CB-CA-C	5.94	120.16	112.14
1	2g	121	ASN	O-C-N	-5.94	113.92	121.29
1	2q	66	MET	CG-SD-CE	-5.94	87.83	100.90
1	2q	129	ILE	CA-C-N	5.94	128.17	120.44
1	2q	129	ILE	C-N-CA	5.94	128.17	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	226	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	2O	82	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	3p	200	THR	CA-CB-CG2	5.94	120.60	110.50
1	3B	167	ARG	CD-NE-CZ	5.94	132.72	124.40
1	3C	75	GLU	N-CA-C	5.94	117.76	111.28
1	3C	208	ALA	CA-C-N	5.94	129.72	120.75
1	3C	208	ALA	C-N-CA	5.94	129.72	120.75
1	3J	14	ALA	N-CA-C	5.94	118.62	110.24
1	3Q	14	ALA	N-CA-C	5.94	118.98	110.24
1	45	225	GLY	N-CA-C	5.94	119.62	111.54
1	4n	12	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	4n	40	PHE	CA-C-O	5.94	126.85	120.55
1	4q	40	PHE	N-CA-C	5.94	117.43	111.07
1	4s	164	TYR	N-CA-C	5.94	117.43	111.07
1	4E	71	GLU	CB-CA-C	5.94	120.65	110.79
1	4R	195	ASN	CB-CG-ND2	5.94	125.31	116.40
1	4U	169	TYR	N-CA-CB	5.94	118.95	110.16
1	5t	7	GLN	O-C-N	-5.94	116.38	123.27
1	5u	19	THR	CA-CB-CG2	5.94	120.60	110.50
1	5A	61	GLY	N-CA-C	5.94	120.21	112.25
1	5B	210	THR	N-CA-CB	5.94	118.78	110.04
1	6s	179	GLN	N-CA-C	5.94	117.76	111.28
1	6F	90	PRO	CA-C-N	5.94	129.06	120.98
1	6F	90	PRO	C-N-CA	5.94	129.06	120.98
1	6L	88	ALA	CA-C-N	5.94	131.20	121.87
1	6L	88	ALA	C-N-CA	5.94	131.20	121.87
1	7b	180	GLU	N-CA-CB	-5.94	101.39	110.01
1	7A	90	PRO	CA-C-N	5.94	129.91	122.48
1	7A	90	PRO	C-N-CA	5.94	129.91	122.48
1	8m	132	ARG	NE-CZ-NH2	-5.94	113.85	119.20
1	8N	122	PRO	CA-C-N	5.94	127.27	119.84
1	8N	122	PRO	C-N-CA	5.94	127.27	119.84
1	8S	4	GLN	CA-C-N	5.94	130.78	120.68
1	8S	4	GLN	C-N-CA	5.94	130.78	120.68
1	8U	10	MET	CA-C-N	5.94	130.12	121.80
1	8U	10	MET	C-N-CA	5.94	130.12	121.80
1	93	181	VAL	CA-C-O	-5.94	114.45	121.05
1	95	227	LYS	CA-C-N	5.94	129.15	120.71
1	95	227	LYS	C-N-CA	5.94	129.15	120.71
1	9d	135	ILE	CA-C-N	5.94	128.24	120.28
1	9d	135	ILE	C-N-CA	5.94	128.24	120.28
1	9w	120	HIS	CG-CD2-NE2	5.94	113.14	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9y	92	GLU	CA-C-N	5.94	125.96	119.90
1	9y	92	GLU	C-N-CA	5.94	125.96	119.90
1	9A	167	ARG	CA-C-N	5.94	128.50	120.65
1	9A	167	ARG	C-N-CA	5.94	128.50	120.65
1	9S	55	MET	N-CA-CB	5.94	118.85	110.12
1	av	188	THR	N-CA-C	5.94	120.65	111.56
1	aw	69	LEU	CA-C-O	-5.94	114.25	120.55
1	aw	146	SER	N-CA-C	5.94	121.71	113.45
1	aI	134	ILE	CB-CA-C	-5.94	104.12	112.14
1	aJ	80	TRP	N-CA-C	5.94	117.76	111.28
1	aP	106	GLY	CA-C-O	5.94	125.08	119.20
1	aU	230	VAL	CB-CA-C	-5.94	104.72	111.55
1	b1	27	VAL	CA-C-O	-5.94	114.55	120.85
1	17	216	THR	CA-C-O	-5.94	112.36	118.90
1	bm	77	ALA	CA-C-N	5.94	128.24	120.28
1	bm	77	ALA	C-N-CA	5.94	128.24	120.28
1	bC	84	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	bP	159	GLU	CA-C-O	-5.94	114.66	120.19
1	bX	29	GLU	CA-C-O	5.94	127.25	120.00
1	c6	85	PRO	N-CA-CB	5.94	108.62	103.27
1	cc	140	LYS	CA-C-N	5.94	128.60	120.46
1	cc	140	LYS	C-N-CA	5.94	128.60	120.46
1	cK	27	VAL	CA-C-N	5.94	128.17	120.44
1	cK	27	VAL	C-N-CA	5.94	128.17	120.44
1	cO	178	SER	CA-C-O	-5.94	115.08	121.56
1	cQ	165	VAL	N-CA-C	5.94	116.68	110.62
1	cR	20	LEU	N-CA-C	-5.94	104.72	111.14
1	1h	23	TRP	CZ3-CH2-CZ2	-5.94	113.77	121.50
1	cW	79	GLU	CA-C-O	5.94	126.72	120.42
1	dc	201	ILE	N-CA-CB	5.94	117.11	110.51
1	1j	129	ILE	CA-C-O	-5.94	114.55	120.85
1	1k	79	GLU	N-CA-CB	5.94	118.59	109.91
1	dG	53	ASN	CB-CG-ND2	5.94	125.31	116.40
1	dP	175	GLU	CB-CA-C	-5.94	100.93	110.79
1	dV	10	MET	CA-C-N	5.94	131.42	122.98
1	dV	10	MET	C-N-CA	5.94	131.42	122.98
1	eI	121	ASN	CB-CA-C	-5.94	103.32	110.15
1	f3	27	VAL	CA-C-N	5.94	128.16	120.44
1	f3	27	VAL	C-N-CA	5.94	128.16	120.44
1	f4	139	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	f6	16	SER	O-C-N	-5.94	114.77	121.43
1	f6	163	ASP	CA-CB-CG	5.94	118.54	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fj	195	ASN	CA-C-N	5.94	127.27	119.84
1	fj	195	ASN	C-N-CA	5.94	127.27	119.84
1	fu	81	ASP	CA-CB-CG	5.94	118.54	112.60
1	fA	93	PRO	N-CA-C	5.94	124.71	112.47
1	fI	197	ASP	CA-CB-CG	5.94	118.54	112.60
1	fT	204	ALA	CA-C-N	5.94	129.34	120.31
1	fT	204	ALA	C-N-CA	5.94	129.34	120.31
1	1A	53	ASN	CA-CB-CG	5.94	118.54	112.60
1	fY	114	GLN	O-C-N	-5.94	115.95	122.07
1	fZ	149	SER	CA-C-O	-5.94	115.08	122.03
1	g4	81	ASP	CA-CB-CG	5.94	118.54	112.60
1	b	200	THR	O-C-N	-5.94	115.95	122.07
1	o	102	SER	O-C-N	-5.94	115.82	122.12
1	2	121	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	w	84	HIS	CB-CG-CD2	-5.94	123.47	131.20
1	3	125	PRO	CA-C-N	5.94	132.67	121.97
1	3	125	PRO	C-N-CA	5.94	132.67	121.97
1	P	24	VAL	O-C-N	-5.94	116.11	121.87
1	P	58	THR	CA-C-N	5.94	129.45	120.77
1	P	58	THR	C-N-CA	5.94	129.45	120.77
1	P	159	GLU	O-C-N	-5.94	116.26	121.31
1	gi	62	HIS	CB-CG-ND1	-5.94	113.79	122.70
1	gn	33	SER	CA-C-N	5.94	125.64	119.82
1	gn	33	SER	C-N-CA	5.94	125.64	119.82
1	gw	171	THR	CA-CB-OG1	5.94	118.51	109.60
1	h1	55	MET	N-CA-CB	5.94	118.58	109.91
1	h4	30	LYS	CA-C-O	-5.94	112.61	118.97
1	h4	82	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	hq	11	VAL	CA-C-O	5.94	127.26	120.90
1	hK	62	HIS	O-C-N	-5.94	114.62	122.40
1	hO	62	HIS	CA-C-N	5.94	128.16	120.44
1	hO	62	HIS	C-N-CA	5.94	128.16	120.44
1	i6	37	ILE	O-C-N	-5.94	116.62	120.42
1	im	9	GLN	OE1-CD-NE2	5.94	128.54	122.60
1	ix	87	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	1Q	126	VAL	N-CA-C	5.94	116.12	110.42
1	iy	120	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	iK	97	ARG	O-C-N	-5.94	115.85	122.86
1	iR	227	LYS	N-CA-C	5.94	117.88	108.79
1	iS	176	GLN	CA-C-N	5.94	130.16	121.31
1	iS	176	GLN	C-N-CA	5.94	130.16	121.31
1	j0	138	LEU	O-C-N	-5.94	115.82	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j5	63	GLN	CA-C-N	5.94	128.24	120.28
1	j5	63	GLN	C-N-CA	5.94	128.24	120.28
1	jl	132	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	jx	74	ASN	OD1-CG-ND2	5.94	128.54	122.60
1	jD	124	ILE	CA-C-O	-5.94	113.92	119.62
1	jM	13	GLN	N-CA-C	-5.94	99.32	109.24
1	jM	91	ILE	CA-C-N	5.94	129.12	120.51
1	jM	91	ILE	C-N-CA	5.94	129.12	120.51
1	jN	85	PRO	N-CA-C	5.94	124.71	112.47
1	jN	188	THR	N-CA-C	5.94	118.24	111.11
1	1Z	91	ILE	CA-C-O	5.94	125.50	119.20
1	ki	186	THR	CA-C-N	5.94	128.72	120.29
1	ki	186	THR	C-N-CA	5.94	128.72	120.29
1	kj	32	PHE	CB-CA-C	-5.94	101.85	111.06
1	kl	203	LYS	O-C-N	-5.94	115.82	122.12
1	kv	68	MET	CA-C-O	5.94	126.85	120.55
1	kB	192	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	kZ	34	PRO	CA-C-N	5.94	128.24	120.28
1	kZ	34	PRO	C-N-CA	5.94	128.24	120.28
1	l1	135	ILE	N-CA-CB	-5.94	103.60	110.55
1	l2	142	VAL	CA-C-N	5.94	128.16	120.44
1	l2	142	VAL	C-N-CA	5.94	128.16	120.44
1	ld	119	THR	CA-C-N	5.94	134.16	121.45
1	ld	119	THR	C-N-CA	5.94	134.16	121.45
1	lh	87	HIS	CB-CG-CD2	-5.94	123.48	131.20
1	lM	64	ALA	CA-C-N	5.94	128.24	120.28
1	lM	64	ALA	C-N-CA	5.94	128.24	120.28
1	2b	87	HIS	CB-CG-CD2	5.94	138.92	131.20
1	2c	78	ALA	N-CA-C	5.94	117.76	111.28
1	2C	149	SER	CA-C-O	-5.94	115.33	121.87
1	2D	146	SER	N-CA-CB	5.94	119.41	110.02
1	2P	72	THR	CA-C-N	5.94	128.60	120.46
1	2P	72	THR	C-N-CA	5.94	128.60	120.46
1	2W	102	SER	N-CA-C	5.94	117.76	111.28
1	33	7	GLN	OE1-CD-NE2	5.94	128.54	122.60
1	3e	138	LEU	CA-C-N	5.94	128.16	120.44
1	3e	138	LEU	C-N-CA	5.94	128.16	120.44
1	3v	67	GLN	O-C-N	-5.94	115.82	122.12
1	3y	170	LYS	CA-C-O	5.94	126.85	120.55
1	3I	81	ASP	CA-CB-CG	5.94	118.54	112.60
1	43	135	ILE	CA-C-N	5.94	128.24	120.28
1	43	135	ILE	C-N-CA	5.94	128.24	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	44	19	THR	O-C-N	-5.94	115.95	122.07
1	4w	74	ASN	CA-C-N	5.94	128.24	120.28
1	4w	74	ASN	C-N-CA	5.94	128.24	120.28
1	4y	87	HIS	O-C-N	-5.94	116.32	123.27
1	4I	54	THR	N-CA-CB	5.94	118.85	110.12
1	4Y	23	TRP	CE2-CD2-CE3	-5.94	112.86	118.80
1	56	50	GLN	OE1-CD-NE2	5.94	128.54	122.60
1	57	124	ILE	N-CA-C	-5.94	101.67	107.55
1	5i	200	THR	N-CA-CB	5.94	118.79	109.94
1	5E	22	ALA	O-C-N	-5.94	115.82	122.12
1	5T	168	PHE	CA-CB-CG	5.94	119.74	113.80
1	60	67	GLN	CA-C-O	5.94	126.85	120.55
1	68	170	LYS	CA-C-N	5.94	128.72	120.29
1	68	170	LYS	C-N-CA	5.94	128.72	120.29
1	6a	33	SER	CA-C-N	5.94	126.09	119.32
1	6a	33	SER	C-N-CA	5.94	126.09	119.32
1	6j	226	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	6w	162	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	6A	47	ALA	CA-C-O	5.94	127.82	121.05
1	6H	40	PHE	CA-CB-CG	-5.94	107.86	113.80
1	6L	105	ALA	O-C-N	-5.94	112.86	122.42
1	6P	130	TYR	CB-CG-CD1	-5.94	111.89	120.80
1	6S	138	LEU	N-CA-C	5.94	117.75	111.28
1	6Y	13	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	71	153	ILE	CB-CA-C	-5.94	103.71	111.25
1	7d	15	ILE	N-CA-C	5.94	118.18	109.63
1	7E	188	THR	N-CA-C	-5.94	104.16	112.12
1	7W	124	ILE	O-C-N	-5.94	116.83	121.46
1	82	86	VAL	CA-C-N	5.94	129.72	120.75
1	82	86	VAL	C-N-CA	5.94	129.72	120.75
1	82	93	PRO	N-CA-CB	5.94	108.54	103.19
1	8d	32	PHE	CA-C-N	5.94	129.69	120.60
1	8d	32	PHE	C-N-CA	5.94	129.69	120.60
1	8n	4	GLN	N-CA-C	5.94	118.84	110.23
1	8O	192	GLN	N-CA-C	5.94	118.54	111.71
1	8U	223	GLY	O-C-N	-5.94	115.83	121.77
1	97	192	GLN	N-CA-C	5.94	117.83	111.36
1	9s	209	ALA	CA-C-N	5.94	129.20	120.82
1	9s	209	ALA	C-N-CA	5.94	129.20	120.82
1	9U	47	ALA	N-CA-CB	-5.94	101.24	109.97
1	9Z	216	THR	CA-C-O	5.94	125.58	119.05
1	a4	84	HIS	CG-CD2-NE2	5.94	113.14	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ac	62	HIS	CB-CG-CD2	-5.94	123.48	131.20
1	as	8	GLY	CA-C-O	5.94	126.99	119.80
1	12	5	ASN	CB-CG-ND2	-5.94	107.49	116.40
1	au	102	SER	N-CA-C	5.94	118.52	111.33
1	aC	173	ARG	NH1-CZ-NH2	-5.94	111.58	119.30
1	aT	113	GLU	N-CA-C	5.94	117.43	111.07
1	bw	27	VAL	N-CA-C	5.94	116.68	110.62
1	1a	223	GLY	CA-C-N	5.94	125.95	119.89
1	1a	223	GLY	C-N-CA	5.94	125.95	119.89
1	c2	214	MET	CA-C-N	5.94	128.83	120.28
1	c2	214	MET	C-N-CA	5.94	128.83	120.28
1	c4	36	VAL	CA-C-N	5.94	125.08	120.33
1	c4	36	VAL	C-N-CA	5.94	125.08	120.33
1	cf	130	TYR	CA-C-N	5.94	128.84	120.28
1	cf	130	TYR	C-N-CA	5.94	128.84	120.28
1	cv	92	GLU	CA-C-O	-5.94	113.17	118.63
1	cN	97	ARG	NH1-CZ-NH2	-5.94	111.58	119.30
1	d2	156	GLY	O-C-N	-5.94	115.83	121.77
1	1k	128	GLU	CA-C-N	5.94	128.05	120.56
1	1k	128	GLU	C-N-CA	5.94	128.05	120.56
1	dr	165	VAL	N-CA-C	5.94	116.68	110.62
1	ds	17	PRO	CA-C-N	5.94	128.52	120.44
1	ds	17	PRO	C-N-CA	5.94	128.52	120.44
1	ds	183	ASN	CA-CB-CG	-5.94	106.66	112.60
1	1l	48	THR	CA-C-O	-5.94	113.98	120.87
1	dX	37	ILE	N-CA-C	5.94	121.71	108.88
1	dZ	192	GLN	CA-C-O	-5.94	114.12	120.42
1	e2	71	GLU	N-CA-C	5.94	117.43	111.07
1	ee	143	ARG	N-CA-C	5.94	118.71	111.82
1	ej	176	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	et	226	HIS	CA-CB-CG	-5.94	107.86	113.80
1	ez	228	ALA	CA-C-N	5.94	129.72	120.75
1	ez	228	ALA	C-N-CA	5.94	129.72	120.75
1	eB	153	ILE	N-CA-C	5.94	116.92	110.21
1	eU	173	ARG	N-CA-C	5.94	118.24	111.11
1	eY	96	MET	N-CA-C	5.94	119.58	110.20
1	fs	131	LYS	N-CA-CB	-5.94	101.37	110.16
1	c	98	GLU	CA-C-O	-5.94	115.43	119.29
1	2	76	GLU	CB-CA-C	5.94	120.65	110.79
1	v	138	LEU	N-CA-C	5.94	117.75	111.28
1	F	50	GLN	N-CA-C	5.94	117.76	111.28
1	7	142	VAL	CA-C-N	5.94	128.24	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	142	VAL	C-N-CA	5.94	128.24	120.28
1	gg	51	ASP	CA-C-N	5.94	128.16	120.44
1	gg	51	ASP	C-N-CA	5.94	128.16	120.44
1	gq	133	TRP	CA-CB-CG	5.94	124.88	113.60
1	hP	136	LEU	O-C-N	-5.94	115.95	122.07
1	hV	120	HIS	CA-CB-CG	5.94	119.74	113.80
1	i2	71	GLU	O-C-N	-5.94	115.83	122.12
1	iu	55	MET	CA-C-O	-5.94	114.55	120.90
1	1R	10	MET	CA-C-N	5.94	130.84	123.12
1	1R	10	MET	C-N-CA	5.94	130.84	123.12
1	iY	139	ASN	CB-CG-ND2	5.94	125.31	116.40
1	jw	112	GLN	N-CA-CB	5.94	118.85	110.12
1	ke	137	GLY	CA-C-N	5.94	128.24	120.28
1	ke	137	GLY	C-N-CA	5.94	128.24	120.28
1	kh	172	LEU	CA-C-N	5.94	128.24	120.28
1	kh	172	LEU	C-N-CA	5.94	128.24	120.28
1	kF	164	TYR	CA-C-N	5.94	128.60	120.46
1	kF	164	TYR	C-N-CA	5.94	128.60	120.46
1	2w	94	GLY	CA-C-N	5.94	132.13	122.81
1	2w	94	GLY	C-N-CA	5.94	132.13	122.81
1	2A	139	ASN	N-CA-CB	5.94	118.85	110.12
1	3a	205	LEU	N-CA-C	5.94	120.25	112.89
1	3h	121	ASN	CA-C-O	-5.94	114.96	119.59
1	3o	227	LYS	CA-C-N	5.94	130.88	122.09
1	3o	227	LYS	C-N-CA	5.94	130.88	122.09
1	3s	120	HIS	CA-CB-CG	5.94	119.74	113.80
1	3t	193	ASN	CA-CB-CG	-5.94	106.66	112.60
1	3E	75	GLU	N-CA-C	5.94	118.24	111.11
1	3J	214	MET	CG-SD-CE	-5.94	87.83	100.90
1	3X	160	PRO	CA-C-N	5.94	132.88	121.54
1	3X	160	PRO	C-N-CA	5.94	132.88	121.54
1	5i	18	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	5C	69	LEU	N-CA-C	5.94	117.75	111.28
1	65	185	MET	N-CA-C	5.94	118.24	111.11
1	6g	59	VAL	O-C-N	-5.94	115.83	122.66
1	7N	180	GLU	CA-C-O	5.94	126.85	120.55
1	7W	142	VAL	CB-CA-C	-5.94	104.02	112.22
1	83	143	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	8f	163	ASP	N-CA-CB	-5.94	101.37	110.16
1	8y	157	PRO	N-CA-CB	5.94	108.98	103.46
1	8D	173	ARG	N-CA-C	5.94	118.24	111.11
1	90	79	GLU	N-CA-CB	-5.94	101.40	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	140	LYS	CA-C-N	5.94	128.04	120.56
1	9F	140	LYS	C-N-CA	5.94	128.04	120.56
1	9W	140	LYS	CB-CA-C	5.94	120.20	110.88
1	aq	14	ALA	N-CA-C	5.94	123.45	110.80
1	aO	61	GLY	CA-C-N	5.94	131.18	122.63
1	aO	61	GLY	C-N-CA	5.94	131.18	122.63
1	aP	163	ASP	N-CA-C	5.94	117.75	111.28
1	bF	226	HIS	CA-C-O	-5.94	115.09	121.56
1	cD	189	LEU	N-CA-C	5.94	117.75	111.28
1	db	201	ILE	CA-C-N	5.94	128.24	120.28
1	db	201	ILE	C-N-CA	5.94	128.24	120.28
1	dE	91	ILE	O-C-N	-5.94	116.25	122.25
1	dV	58	THR	N-CA-CB	5.94	119.49	110.28
1	dX	19	THR	OG1-CB-CG2	-5.94	97.42	109.30
1	1o	171	THR	CA-C-N	5.94	128.24	120.28
1	1o	171	THR	C-N-CA	5.94	128.24	120.28
1	eg	202	LEU	CA-C-O	5.94	126.85	120.55
1	1r	66	MET	CA-C-O	5.94	126.84	120.55
1	eS	35	GLU	N-CA-C	-5.94	105.34	113.30
1	eT	213	GLU	CA-C-N	5.94	128.72	120.29
1	eT	213	GLU	C-N-CA	5.94	128.72	120.29
1	f7	155	GLN	CA-CB-CG	5.94	125.98	114.10
1	fm	90	PRO	N-CA-CB	-5.94	97.88	103.17
1	fG	36	VAL	N-CA-CB	5.94	119.49	110.58
1	fQ	84	HIS	CA-CB-CG	5.94	119.74	113.80
1	g	220	GLY	CA-C-N	5.94	130.76	123.10
1	g	220	GLY	C-N-CA	5.94	130.76	123.10
1	1	124	ILE	N-CA-CB	5.94	118.32	111.31
1	n	112	GLN	N-CA-C	5.94	117.75	111.28
1	K	229	ARG	N-CA-C	5.94	118.95	110.10
1	ge	192	GLN	OE1-CD-NE2	5.94	128.54	122.60
1	gf	182	LYS	N-CA-C	5.94	118.54	111.71
1	gn	8	GLY	CA-C-N	5.94	131.90	122.93
1	gn	8	GLY	C-N-CA	5.94	131.90	122.93
1	gK	96	MET	CA-C-O	5.94	127.82	121.11
1	h5	203	LYS	CA-C-O	-5.94	113.14	119.97
1	ha	44	SER	CA-C-O	5.94	126.96	119.95
1	1I	176	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	hh	216	THR	CA-CB-CG2	5.94	120.59	110.50
1	hi	202	LEU	O-C-N	-5.94	115.38	122.15
1	1J	98	GLU	CA-C-O	5.94	125.05	119.76
1	1N	117	TRP	CA-CB-CG	5.94	124.88	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i4	141	ILE	N-CA-C	5.94	116.68	110.62
1	ie	183	ASN	CA-C-N	5.94	128.56	120.54
1	ie	183	ASN	C-N-CA	5.94	128.56	120.54
1	ip	136	LEU	CA-C-O	5.94	126.71	120.42
1	iq	186	THR	N-CA-C	-5.94	104.89	111.36
1	is	171	THR	O-C-N	-5.94	115.83	122.12
1	it	220	GLY	N-CA-C	5.94	120.37	112.77
1	iD	139	ASN	CA-CB-CG	-5.94	106.66	112.60
1	iQ	48	THR	CA-CB-OG1	5.94	118.51	109.60
1	j5	212	GLU	CA-C-O	5.94	127.04	120.63
1	j7	24	VAL	CA-C-N	-5.94	112.32	120.28
1	j7	24	VAL	C-N-CA	-5.94	112.32	120.28
1	j7	185	MET	N-CA-C	5.94	117.75	111.28
1	j9	114	GLN	CA-C-N	5.94	128.59	120.46
1	j9	114	GLN	C-N-CA	5.94	128.59	120.46
1	jc	36	VAL	N-CA-C	5.94	116.72	110.72
1	jd	44	SER	O-C-N	-5.94	115.19	122.25
1	jj	59	VAL	CB-CA-C	5.94	119.35	110.98
1	k7	121	ASN	O-C-N	-5.94	113.22	121.12
1	kk	98	GLU	N-CA-CB	-5.94	100.64	110.02
1	kt	170	LYS	N-CA-C	5.94	118.71	111.82
1	22	215	MET	CG-SD-CE	-5.94	87.84	100.90
1	kM	201	ILE	N-CA-CB	5.94	119.49	110.58
1	kT	167	ARG	CA-C-N	5.94	128.49	120.65
1	kT	167	ARG	C-N-CA	5.94	128.49	120.65
1	kW	97	ARG	N-CA-C	5.94	123.45	110.80
1	kZ	195	ASN	CB-CA-C	5.94	118.02	109.11
1	l8	48	THR	CA-C-N	5.94	127.26	119.84
1	l8	48	THR	C-N-CA	5.94	127.26	119.84
1	la	62	HIS	CA-CB-CG	5.94	119.74	113.80
1	ls	150	ILE	N-CA-C	-5.94	107.47	113.47
1	2c	3	VAL	N-CA-C	-5.94	107.13	112.12
1	2j	39	MET	CA-C-O	-5.94	114.55	120.90
1	2j	216	THR	CA-C-O	5.94	126.51	119.56
1	2l	88	ALA	CA-C-O	5.94	126.91	120.32
1	2o	117	TRP	CB-CG-CD1	-5.94	117.99	126.90
1	2v	84	HIS	O-C-N	-5.94	112.93	121.54
1	2x	167	ARG	O-C-N	-5.94	115.83	122.12
1	2C	163	ASP	N-CA-C	5.94	117.75	111.28
1	2G	206	GLY	CA-C-N	5.94	126.45	120.04
1	2G	206	GLY	C-N-CA	5.94	126.45	120.04
1	2H	83	LEU	N-CA-C	5.94	117.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	51	ASP	CB-CA-C	-5.94	101.56	110.88
1	2N	211	LEU	N-CA-CB	-5.94	101.08	110.28
1	2V	29	GLU	N-CA-C	5.94	117.62	111.03
1	31	71	GLU	CA-C-O	-5.94	114.55	120.90
1	3h	174	ALA	O-C-N	-5.94	115.38	122.15
1	3u	51	ASP	O-C-N	-5.94	115.38	122.15
1	3w	134	ILE	CA-C-O	5.94	126.92	120.57
1	3G	67	GLN	CB-CG-CD	5.94	122.69	112.60
1	3J	167	ARG	N-CA-C	5.94	117.42	111.07
1	3Y	115	ILE	N-CA-C	-5.94	104.56	110.62
1	44	128	GLU	O-C-N	5.94	128.41	122.12
1	45	129	ILE	O-C-N	-5.94	115.73	121.90
1	48	172	LEU	CA-C-O	-5.94	114.58	120.82
1	4q	178	SER	N-CA-C	5.94	117.96	110.24
1	4B	62	HIS	ND1-CG-CD2	5.94	112.04	106.10
1	4P	100	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	4Q	168	PHE	O-C-N	-5.94	115.83	122.12
1	59	183	ASN	CA-C-N	5.94	128.16	120.44
1	59	183	ASN	C-N-CA	5.94	128.16	120.44
1	5c	114	GLN	N-CA-C	5.94	118.26	111.02
1	5h	103	ASP	O-C-N	-5.94	115.83	122.12
1	5y	3	VAL	CA-CB-CG2	-5.94	100.31	110.40
1	5z	115	ILE	N-CA-CB	5.94	117.50	110.55
1	6f	151	LEU	CA-C-O	5.94	126.22	119.27
1	6g	10	MET	N-CA-C	5.94	119.37	111.30
1	6k	199	LYS	O-C-N	-5.94	115.83	122.12
1	6t	156	GLY	CA-C-N	5.94	125.64	119.05
1	6t	156	GLY	C-N-CA	5.94	125.64	119.05
1	6A	119	THR	CA-CB-OG1	5.94	118.51	109.60
1	6F	166	ASP	CA-C-O	-5.94	114.13	120.42
1	76	166	ASP	CA-CB-CG	5.94	118.54	112.60
1	78	32	PHE	CA-CB-CG	-5.94	107.86	113.80
1	79	13	GLN	O-C-N	-5.94	117.03	123.26
1	7l	69	LEU	CA-C-N	5.94	128.24	120.28
1	7l	69	LEU	C-N-CA	5.94	128.24	120.28
1	7q	135	ILE	N-CA-C	5.94	116.68	110.62
1	7D	176	GLN	N-CA-CB	5.94	120.49	111.70
1	7G	57	ASN	OD1-CG-ND2	-5.94	116.66	122.60
1	7S	226	HIS	ND1-CE1-NE2	5.94	114.34	108.40
1	8b	120	HIS	N-CA-C	5.94	118.37	110.53
1	8i	141	ILE	N-CA-CB	5.94	117.50	110.55
1	8G	198	CYS	CA-C-O	5.94	126.19	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	91	181	VAL	CB-CA-C	5.94	120.16	112.14
1	9c	80	TRP	CB-CG-CD1	-5.94	117.99	126.90
1	9k	23	TRP	CE2-CD2-CE3	5.94	124.74	118.80
1	9o	87	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	9q	112	GLN	N-CA-C	5.94	117.75	111.28
1	9z	85	PRO	CB-CA-C	5.94	119.10	111.56
1	9M	124	ILE	O-C-N	-5.94	117.63	121.37
1	9N	13	GLN	O-C-N	-5.94	116.14	123.33
1	9X	152	ASP	N-CA-CB	-5.94	101.14	110.46
1	ag	12	HIS	ND1-CE1-NE2	5.94	114.34	108.40
1	au	14	ALA	O-C-N	-5.94	115.80	122.75
1	au	168	PHE	N-CA-C	5.94	117.75	111.28
1	aS	132	ARG	CA-C-N	5.94	128.24	120.28
1	aS	132	ARG	C-N-CA	5.94	128.24	120.28
1	aZ	115	ILE	CA-C-N	5.94	126.57	119.98
1	aZ	115	ILE	C-N-CA	5.94	126.57	119.98
1	b7	85	PRO	CA-C-N	5.94	130.55	123.19
1	b7	85	PRO	C-N-CA	5.94	130.55	123.19
1	16	35	GLU	CA-C-O	5.94	126.71	120.42
1	bc	36	VAL	CA-C-O	5.94	127.14	120.85
1	bh	183	ASN	CA-CB-CG	5.94	118.54	112.60
1	bk	197	ASP	N-CA-C	5.94	117.75	111.28
1	bl	67	GLN	CA-C-N	5.94	128.16	120.44
1	bl	67	GLN	C-N-CA	5.94	128.16	120.44
1	bM	77	ALA	CA-C-N	5.94	128.55	120.54
1	bM	77	ALA	C-N-CA	5.94	128.55	120.54
1	bY	98	GLU	O-C-N	-5.94	114.78	121.43
1	bZ	54	THR	N-CA-CB	5.94	118.85	110.12
1	c3	24	VAL	N-CA-C	5.94	116.68	110.62
1	cd	195	ASN	CA-C-N	5.94	125.48	119.19
1	cd	195	ASN	C-N-CA	5.94	125.48	119.19
1	ce	82	ARG	CA-C-O	5.94	125.32	118.97
1	cz	179	GLN	CA-C-N	5.94	128.16	120.44
1	cz	179	GLN	C-N-CA	5.94	128.16	120.44
1	cL	186	THR	N-CA-CB	5.94	118.79	109.94
1	cO	140	LYS	CA-C-N	5.94	128.04	120.56
1	cO	140	LYS	C-N-CA	5.94	128.04	120.56
1	1i	155	GLN	CA-C-N	5.94	131.19	121.87
1	1i	155	GLN	C-N-CA	5.94	131.19	121.87
1	1i	203	LYS	CA-C-N	5.94	128.24	120.28
1	1i	203	LYS	C-N-CA	5.94	128.24	120.28
1	dm	187	GLU	N-CA-C	5.94	117.42	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	do	189	LEU	N-CA-C	5.94	117.42	111.07
1	dX	131	LYS	CA-C-O	5.94	126.84	120.55
1	dY	142	VAL	N-CA-C	5.94	116.68	110.62
1	ec	196	PRO	CA-C-N	5.94	128.24	120.28
1	ec	196	PRO	C-N-CA	5.94	128.24	120.28
1	ek	9	GLN	O-C-N	-5.94	115.05	122.35
1	ek	105	ALA	N-CA-C	5.94	119.78	112.54
1	ey	169	TYR	N-CA-C	5.94	117.83	111.36
1	eI	204	ALA	O-C-N	-5.94	115.83	122.12
1	eJ	84	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	fr	71	GLU	CA-C-N	5.94	128.16	120.44
1	fr	71	GLU	C-N-CA	5.94	128.16	120.44
1	fs	72	THR	CA-C-O	5.94	126.84	120.55
1	fH	64	ALA	CA-C-N	5.94	128.24	120.28
1	fH	64	ALA	C-N-CA	5.94	128.24	120.28
1	1B	158	LYS	CA-C-N	5.94	130.79	121.17
1	1B	158	LYS	C-N-CA	5.94	130.79	121.17
1	1	209	ALA	N-CA-C	5.94	117.96	110.24
1	y	107	THR	CA-C-O	5.94	126.71	120.42
1	8	190	LEU	O-C-N	-5.94	115.02	122.20
1	gu	20	LEU	N-CA-C	5.94	117.42	111.07
1	gO	19	THR	CA-CB-CG2	5.94	120.59	110.50
1	gW	62	HIS	CA-C-N	5.94	129.33	120.31
1	gW	62	HIS	C-N-CA	5.94	129.33	120.31
1	1I	76	GLU	CA-C-N	5.94	128.83	120.28
1	1I	76	GLU	C-N-CA	5.94	128.83	120.28
1	hp	141	ILE	N-CA-C	5.94	116.67	110.62
1	hQ	162	ARG	N-CA-C	5.94	121.17	111.37
1	i9	124	ILE	N-CA-CB	5.94	116.58	110.23
1	ib	189	LEU	CA-C-N	5.94	128.24	120.28
1	ib	189	LEU	C-N-CA	5.94	128.24	120.28
1	id	168	PHE	N-CA-C	-5.94	104.73	111.14
1	iC	23	TRP	CA-C-O	5.94	127.05	120.82
1	j0	143	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	jl	197	ASP	N-CA-C	5.94	118.51	111.33
1	1V	92	GLU	O-C-N	-5.94	115.34	121.28
1	jq	35	GLU	N-CA-C	5.94	119.35	111.75
1	jv	64	ALA	CA-C-N	5.94	128.16	120.44
1	jv	64	ALA	C-N-CA	5.94	128.16	120.44
1	jM	134	ILE	CA-CB-CG1	5.94	120.49	110.40
1	jM	181	VAL	CA-C-N	5.94	129.33	120.31
1	jM	181	VAL	C-N-CA	5.94	129.33	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Y	70	LYS	CA-C-O	5.94	126.80	119.97
1	k8	62	HIS	N-CA-C	5.94	119.75	111.74
1	kn	27	VAL	O-C-N	-5.94	116.11	121.87
1	kn	155	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	kz	101	GLY	O-C-N	-5.94	116.25	122.13
1	kB	182	LYS	N-CA-CB	5.94	118.62	110.01
1	kZ	5	ASN	CA-CB-CG	-5.94	106.66	112.60
1	l0	111	LEU	N-CA-CB	-5.94	100.11	109.78
1	l1	226	HIS	O-C-N	-5.94	115.65	122.89
1	lf	115	ILE	CA-C-N	5.94	126.68	120.03
1	lf	115	ILE	C-N-CA	5.94	126.68	120.03
1	2w	65	ALA	N-CA-CB	-5.94	101.37	110.16
1	30	127	GLY	CA-C-N	5.94	128.23	120.28
1	30	127	GLY	C-N-CA	5.94	128.23	120.28
1	3K	24	VAL	CA-C-N	5.94	128.24	120.28
1	3K	24	VAL	C-N-CA	5.94	128.24	120.28
1	4H	221	VAL	O-C-N	5.94	128.73	122.62
1	4Z	95	GLN	O-C-N	-5.94	116.36	123.31
1	6A	167	ARG	NE-CZ-NH1	5.94	127.44	121.50
1	70	55	MET	N-CA-C	5.94	117.42	111.07
1	75	138	LEU	N-CA-CB	5.94	118.78	109.94
1	7m	184	TRP	O-C-N	-5.94	115.95	122.07
1	7B	86	VAL	CA-C-N	5.94	129.19	120.82
1	7B	86	VAL	C-N-CA	5.94	129.19	120.82
1	8Q	33	SER	N-CA-C	-5.94	102.59	110.07
1	8V	143	ARG	N-CA-C	5.94	117.55	111.14
1	9v	143	ARG	O-C-N	-5.94	115.68	122.09
1	9y	37	ILE	CA-C-N	5.94	125.48	119.19
1	9y	37	ILE	C-N-CA	5.94	125.48	119.19
1	9S	17	PRO	CA-C-N	5.94	128.16	120.44
1	9S	17	PRO	C-N-CA	5.94	128.16	120.44
1	Z	47	ALA	CA-C-N	5.94	129.70	120.68
1	Z	47	ALA	C-N-CA	5.94	129.70	120.68
1	Z	164	TYR	O-C-N	-5.94	115.38	122.15
1	at	24	VAL	CB-CA-C	5.94	119.48	111.88
1	aN	84	HIS	N-CA-C	5.94	118.23	109.62
1	aU	140	LYS	N-CA-C	5.94	118.23	111.11
1	b2	143	ARG	O-C-N	-5.94	115.38	122.15
1	bj	129	ILE	N-CA-C	5.94	116.59	110.36
1	19	155	GLN	O-C-N	-5.94	115.48	122.96
1	bV	12	HIS	CE1-NE2-CD2	-5.94	103.06	109.00
1	cr	159	GLU	O-C-N	-5.94	114.49	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d1	78	ALA	N-CA-C	5.94	117.55	111.14
1	ds	169	TYR	N-CA-C	5.94	118.71	111.82
1	dC	92	GLU	N-CA-C	5.94	116.43	109.60
1	1m	26	VAL	CB-CA-C	5.94	120.41	112.22
1	dW	117	TRP	N-CA-C	5.94	118.23	111.11
1	e5	112	GLN	N-CA-C	5.94	117.75	111.28
1	eq	163	ASP	CA-CB-CG	-5.94	106.66	112.60
1	f4	226	HIS	CA-C-O	5.94	128.90	121.66
1	fg	33	SER	O-C-N	-5.94	116.00	122.06
1	fj	95	GLN	OE1-CD-NE2	-5.94	116.66	122.60
1	fr	121	ASN	CA-CB-CG	5.94	118.54	112.60
1	fs	207	PRO	CB-CA-C	5.94	120.40	111.44
1	fv	203	LYS	N-CA-C	5.94	118.51	111.33
1	1y	120	HIS	CG-CD2-NE2	5.94	113.14	107.20
1	fQ	44	SER	O-C-N	-5.94	115.22	122.34
1	k	56	LEU	O-C-N	-5.94	115.96	122.07
1	m	149	SER	CA-C-O	-5.94	114.81	121.81
1	I	32	PHE	N-CA-CB	5.94	121.12	111.74
1	gb	71	GLU	CA-C-N	5.93	128.15	120.44
1	gb	71	GLU	C-N-CA	5.93	128.15	120.44
1	ge	50	GLN	N-CA-C	5.93	117.42	111.07
1	gu	169	TYR	N-CA-C	5.93	117.75	111.28
1	gE	143	ARG	N-CA-C	5.93	118.23	111.11
1	gR	120	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	gS	5	ASN	CA-CB-CG	5.93	118.53	112.60
1	h2	54	THR	N-CA-C	5.93	118.53	111.71
1	ht	196	PRO	CA-C-N	5.93	128.51	120.44
1	ht	196	PRO	C-N-CA	5.93	128.51	120.44
1	hG	81	ASP	CA-CB-CG	5.93	118.53	112.60
1	ik	198	CYS	CA-C-O	5.93	126.84	120.55
1	iz	227	LYS	O-C-N	-5.93	115.51	122.81
1	iD	53	ASN	OD1-CG-ND2	-5.93	116.67	122.60
1	iK	162	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	iU	226	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	iW	54	THR	CA-C-N	5.93	128.15	120.44
1	iW	54	THR	C-N-CA	5.93	128.15	120.44
1	j2	91	ILE	CB-CA-C	-5.93	102.49	112.16
1	j4	140	LYS	N-CA-C	5.93	117.75	111.28
1	jc	107	THR	CA-CB-OG1	5.93	118.50	109.60
1	jo	144	MET	CG-SD-CE	-5.93	87.84	100.90
1	jv	163	ASP	O-C-N	-5.93	115.96	122.07
1	jZ	16	SER	CA-C-O	5.93	125.04	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	223	GLY	CA-C-N	5.93	127.26	119.84
1	ky	223	GLY	C-N-CA	5.93	127.26	119.84
1	kQ	127	GLY	N-CA-C	5.93	120.07	112.83
1	kS	45	GLU	N-CA-CB	5.93	118.89	109.51
1	ln	55	MET	N-CA-C	5.93	117.83	111.36
1	lw	166	ASP	CA-C-N	5.93	128.72	120.29
1	lw	166	ASP	C-N-CA	5.93	128.72	120.29
1	2e	31	ALA	N-CA-C	5.93	116.78	108.00
1	2g	39	MET	CG-SD-CE	-5.93	87.84	100.90
1	2t	32	PHE	CA-CB-CG	-5.93	107.87	113.80
1	2B	45	GLU	O-C-N	-5.93	115.83	122.12
1	2K	33	SER	CA-C-O	-5.93	115.55	120.71
1	2Q	180	GLU	CA-C-N	5.93	128.04	120.56
1	2Q	180	GLU	C-N-CA	5.93	128.04	120.56
1	3g	145	TYR	CA-C-O	-5.93	114.36	120.89
1	3h	81	ASP	O-C-N	-5.93	115.83	122.12
1	3r	53	ASN	N-CA-C	5.93	118.51	111.33
1	3M	137	GLY	CA-C-N	5.93	128.23	120.28
1	3M	137	GLY	C-N-CA	5.93	128.23	120.28
1	3P	201	ILE	CA-C-O	5.93	127.12	120.95
1	3V	123	PRO	CA-C-O	-5.93	114.85	121.32
1	3X	177	ALA	CA-C-N	5.93	129.14	120.71
1	3X	177	ALA	C-N-CA	5.93	129.14	120.71
1	45	53	ASN	N-CA-C	5.93	117.83	111.36
1	46	50	GLN	CA-C-O	5.93	126.71	120.42
1	46	56	LEU	N-CA-C	5.93	117.42	111.07
1	4j	160	PRO	CA-C-N	5.93	128.51	120.38
1	4j	160	PRO	C-N-CA	5.93	128.51	120.38
1	4I	184	TRP	O-C-N	-5.93	115.83	122.12
1	4X	226	HIS	CB-CG-CD2	-5.93	123.48	131.20
1	5z	162	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	5D	96	MET	CA-C-N	5.93	130.26	120.94
1	5D	96	MET	C-N-CA	5.93	130.26	120.94
1	5X	155	GLN	CA-C-O	5.93	127.63	120.81
1	6b	174	ALA	CA-C-N	5.93	129.79	121.24
1	6b	174	ALA	C-N-CA	5.93	129.79	121.24
1	6n	51	ASP	CA-C-O	5.93	126.81	120.10
1	6I	120	HIS	CE1-NE2-CD2	-5.93	103.06	109.00
1	6J	93	PRO	CB-CA-C	5.93	119.12	111.46
1	6L	226	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	6O	113	GLU	CA-C-N	5.93	128.55	120.54
1	6O	113	GLU	C-N-CA	5.93	128.55	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	50	GLN	CA-C-N	5.93	128.72	120.29
1	6Z	50	GLN	C-N-CA	5.93	128.72	120.29
1	73	218	CYS	CA-C-N	5.93	129.30	120.87
1	73	218	CYS	C-N-CA	5.93	129.30	120.87
1	74	229	ARG	CA-C-O	-5.93	113.92	120.69
1	7i	188	THR	CA-C-N	5.93	128.23	120.28
1	7i	188	THR	C-N-CA	5.93	128.23	120.28
1	7m	15	ILE	CA-CB-CG1	5.93	120.49	110.40
1	7r	113	GLU	N-CA-C	5.93	117.75	111.28
1	7t	85	PRO	CA-C-N	5.93	129.35	120.69
1	7t	85	PRO	C-N-CA	5.93	129.35	120.69
1	7N	130	TYR	CA-C-N	5.93	128.55	120.54
1	7N	130	TYR	C-N-CA	5.93	128.55	120.54
1	7P	50	GLN	CA-C-O	-5.93	114.59	120.82
1	7P	196	PRO	N-CA-CB	5.93	109.86	103.33
1	89	7	GLN	O-C-N	-5.93	115.74	121.85
1	8l	110	THR	O-C-N	-5.93	117.07	123.42
1	8J	87	HIS	CG-CD2-NE2	5.93	113.14	107.20
1	8M	47	ALA	N-CA-C	5.93	119.07	109.40
1	8R	60	GLY	CA-C-N	-5.93	116.39	122.27
1	8R	60	GLY	C-N-CA	-5.93	116.39	122.27
1	8R	68	MET	O-C-N	-5.93	115.83	122.12
1	91	20	LEU	CA-C-N	5.93	128.23	120.28
1	91	20	LEU	C-N-CA	5.93	128.23	120.28
1	9q	53	ASN	OD1-CG-ND2	-5.93	116.67	122.60
1	9G	28	GLU	N-CA-C	5.93	117.55	111.14
1	9Q	192	GLN	OE1-CD-NE2	5.93	128.53	122.60
1	9U	214	MET	O-C-N	-5.93	115.83	122.12
1	9V	7	GLN	CA-C-O	-5.93	113.15	119.97
1	au	117	TRP	N-CA-C	5.93	117.42	111.07
1	aw	229	ARG	CD-NE-CZ	5.93	132.71	124.40
1	aK	98	GLU	CA-C-N	5.93	126.13	119.90
1	aK	98	GLU	C-N-CA	5.93	126.13	119.90
1	aR	143	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	aY	86	VAL	CB-CA-C	-5.93	104.14	111.08
1	b0	137	GLY	CA-C-N	5.93	128.15	120.44
1	b0	137	GLY	C-N-CA	5.93	128.15	120.44
1	16	33	SER	O-C-N	-5.93	116.31	121.71
1	bd	20	LEU	CA-C-N	5.93	128.23	120.28
1	bd	20	LEU	C-N-CA	5.93	128.23	120.28
1	br	133	TRP	CD2-CE2-CZ2	-5.93	116.47	122.40
1	bt	143	ARG	NE-CZ-NH1	5.93	127.43	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bE	91	ILE	N-CA-CB	5.93	119.48	110.58
1	bU	55	MET	O-C-N	-5.93	115.92	122.09
1	bV	125	PRO	CA-N-CD	-5.93	103.69	112.00
1	cd	54	THR	CA-C-N	5.93	129.04	120.79
1	cd	54	THR	C-N-CA	5.93	129.04	120.79
1	cd	103	ASP	CA-CB-CG	-5.93	106.67	112.60
1	1d	21	ASN	OD1-CG-ND2	-5.93	116.67	122.60
1	ci	158	LYS	CA-C-N	5.93	130.78	121.17
1	ci	158	LYS	C-N-CA	5.93	130.78	121.17
1	cG	7	GLN	CG-CD-OE1	5.93	132.67	120.80
1	cW	88	ALA	N-CA-CB	-5.93	100.75	109.95
1	d5	136	LEU	CA-C-N	5.93	126.41	119.94
1	d5	136	LEU	C-N-CA	5.93	126.41	119.94
1	d8	67	GLN	CB-CA-C	-5.93	101.56	110.88
1	dD	77	ALA	N-CA-C	5.93	117.75	111.28
1	dI	167	ARG	CA-C-N	5.93	128.48	120.65
1	dI	167	ARG	C-N-CA	5.93	128.48	120.65
1	dP	6	LEU	N-CA-C	-5.93	100.37	108.38
1	dU	67	GLN	CA-C-N	5.93	128.16	120.44
1	dU	67	GLN	C-N-CA	5.93	128.16	120.44
1	dX	85	PRO	N-CA-C	5.93	124.69	112.47
1	e0	212	GLU	CA-C-N	5.93	128.23	120.28
1	e0	212	GLU	C-N-CA	5.93	128.23	120.28
1	1o	189	LEU	N-CA-C	5.93	120.26	112.13
1	e7	76	GLU	CA-C-O	5.93	126.84	120.55
1	ew	97	ARG	N-CA-C	5.93	117.95	110.24
1	eM	47	ALA	O-C-N	-5.93	115.48	123.19
1	f3	169	TYR	N-CA-CB	5.93	119.04	110.20
1	fl	86	VAL	N-CA-C	5.93	116.67	108.84
1	fo	32	PHE	CA-C-N	5.93	128.72	120.65
1	fo	32	PHE	C-N-CA	5.93	128.72	120.65
1	fo	130	TYR	N-CA-CB	-5.93	101.18	110.44
1	fD	189	LEU	CA-C-N	5.93	128.23	120.28
1	fD	189	LEU	C-N-CA	5.93	128.23	120.28
1	1y	20	LEU	N-CA-C	5.93	117.42	111.07
1	fI	201	ILE	N-CA-CB	5.93	117.49	110.55
1	fJ	159	GLU	CA-C-N	5.93	127.26	119.84
1	fJ	159	GLU	C-N-CA	5.93	127.26	119.84
1	fV	195	ASN	CA-C-O	-5.93	114.26	120.02
1	g	8	GLY	N-CA-C	-5.93	106.23	115.67
1	h	182	LYS	CA-C-N	5.93	128.23	120.28
1	h	182	LYS	C-N-CA	5.93	128.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	221	VAL	N-CA-CB	-5.93	102.18	110.13
1	y	76	GLU	CA-C-O	5.93	126.84	120.55
1	U	194	ALA	N-CA-C	5.93	117.95	110.24
1	gd	91	ILE	N-CA-C	-5.93	107.20	112.90
1	gf	42	ALA	CA-C-N	5.93	128.23	120.28
1	gf	42	ALA	C-N-CA	5.93	128.23	120.28
1	gi	114	GLN	N-CA-C	5.93	117.83	111.36
1	go	204	ALA	CA-C-O	5.93	126.84	120.55
1	gp	158	LYS	N-CA-CB	5.93	119.64	110.80
1	gE	215	MET	N-CA-C	5.93	118.51	111.33
1	gI	169	TYR	CA-C-N	5.93	128.55	120.54
1	gI	169	TYR	C-N-CA	5.93	128.55	120.54
1	1F	98	GLU	O-C-N	-5.93	114.53	121.23
1	gU	3	VAL	CA-C-N	5.93	132.87	121.54
1	gU	3	VAL	C-N-CA	5.93	132.87	121.54
1	h0	87	HIS	CA-C-N	5.93	128.23	120.28
1	h0	87	HIS	C-N-CA	5.93	128.23	120.28
1	h1	42	ALA	CA-C-N	5.93	132.14	122.65
1	h1	42	ALA	C-N-CA	5.93	132.14	122.65
1	hi	103	ASP	CA-C-O	-5.93	114.26	120.55
1	hn	191	VAL	CB-CA-C	-5.93	104.25	112.02
1	hq	195	ASN	O-C-N	-5.93	114.78	121.43
1	1K	40	PHE	CA-CB-CG	-5.93	107.87	113.80
1	hH	60	GLY	O-C-N	-5.93	114.99	122.70
1	hI	12	HIS	CG-CD2-NE2	5.93	113.13	107.20
1	hK	108	THR	O-C-N	-5.93	114.61	122.20
1	hW	27	VAL	CA-C-N	5.93	128.55	120.54
1	hW	27	VAL	C-N-CA	5.93	128.55	120.54
1	hY	110	THR	CA-C-N	5.93	128.23	120.28
1	hY	110	THR	C-N-CA	5.93	128.23	120.28
1	1O	208	ALA	N-CA-C	-5.93	105.35	113.30
1	if	214	MET	N-CA-C	5.93	117.75	111.28
1	iA	160	PRO	N-CA-C	5.93	120.54	111.11
1	iJ	9	GLN	OE1-CD-NE2	5.93	128.53	122.60
1	1T	141	ILE	CA-C-O	-5.93	115.10	121.27
1	j3	173	ARG	NE-CZ-NH2	5.93	124.54	119.20
1	je	53	ASN	N-CA-C	5.93	117.75	111.28
1	ju	173	ARG	N-CA-C	5.93	117.42	111.07
1	jz	167	ARG	CA-C-O	5.93	126.84	120.55
1	1X	37	ILE	CA-C-O	-5.93	113.81	118.85
1	k1	172	LEU	N-CA-C	5.93	117.75	111.28
1	ku	132	ARG	CA-C-N	5.93	128.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ku	132	ARG	C-N-CA	5.93	128.23	120.28
1	kw	186	THR	N-CA-CB	5.93	119.44	110.30
1	kw	200	THR	N-CA-CB	5.93	118.96	110.06
1	kz	62	HIS	CB-CG-CD2	5.93	138.91	131.20
1	kC	21	ASN	CA-C-N	5.93	128.23	120.28
1	kC	21	ASN	C-N-CA	5.93	128.23	120.28
1	26	13	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	la	92	GLU	O-C-N	-5.93	115.19	121.30
1	li	55	MET	N-CA-C	5.93	118.51	111.33
1	lC	151	LEU	O-C-N	-5.93	114.65	122.42
1	lL	132	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	2l	89	GLY	CA-C-O	-5.93	113.04	121.52
1	2l	202	LEU	CA-C-N	5.93	128.23	120.28
1	2l	202	LEU	C-N-CA	5.93	128.23	120.28
1	2q	64	ALA	CA-C-N	5.93	128.23	120.28
1	2q	64	ALA	C-N-CA	5.93	128.23	120.28
1	2A	180	GLU	CA-C-O	-5.93	114.22	120.63
1	2B	199	LYS	O-C-N	-5.93	115.96	122.07
1	2E	171	THR	CA-C-N	5.93	128.51	120.38
1	2E	171	THR	C-N-CA	5.93	128.51	120.38
1	3g	161	PHE	N-CA-C	5.93	117.75	111.28
1	3t	21	ASN	CA-C-N	5.93	128.15	120.44
1	3t	21	ASN	C-N-CA	5.93	128.15	120.44
1	3D	215	MET	CG-SD-CE	-5.93	87.85	100.90
1	3F	20	LEU	CA-C-O	-5.93	114.26	120.55
1	3H	150	ILE	N-CA-C	-5.93	107.48	113.47
1	3L	88	ALA	CA-C-O	5.93	126.21	119.27
1	3L	143	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	3Z	83	LEU	CA-C-O	5.93	127.23	121.00
1	44	173	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	4n	205	LEU	CA-C-N	5.93	131.18	121.87
1	4n	205	LEU	C-N-CA	5.93	131.18	121.87
1	4z	62	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	4T	116	GLY	N-CA-C	5.93	119.82	112.64
1	56	190	LEU	N-CA-C	5.93	118.23	111.11
1	58	144	MET	N-CA-C	5.93	117.42	111.07
1	5A	181	VAL	N-CA-C	5.93	116.71	110.72
1	5G	82	ARG	N-CA-C	5.93	118.70	111.82
1	66	117	TRP	CB-CG-CD1	5.93	135.80	126.90
1	6i	42	ALA	CA-C-N	5.93	128.15	120.44
1	6i	42	ALA	C-N-CA	5.93	128.15	120.44
1	6s	74	ASN	N-CA-C	5.93	117.42	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	183	ASN	CA-C-N	5.93	128.15	120.44
1	6s	183	ASN	C-N-CA	5.93	128.15	120.44
1	6v	185	MET	CA-C-N	5.93	128.23	120.28
1	6v	185	MET	C-N-CA	5.93	128.23	120.28
1	6Q	112	GLN	O-C-N	5.93	128.91	122.15
1	6Y	33	SER	N-CA-C	-5.93	102.88	108.22
1	7u	111	LEU	N-CA-C	5.93	123.44	110.80
1	85	32	PHE	O-C-N	-5.93	115.63	122.93
1	8e	48	THR	N-CA-C	-5.93	102.63	110.40
1	8u	113	GLU	O-C-N	-5.93	114.97	122.27
1	8w	161	PHE	O-C-N	-5.93	115.83	122.12
1	8I	80	TRP	CB-CG-CD1	5.93	135.80	126.90
1	8Z	58	THR	CA-CB-OG1	5.93	118.50	109.60
1	99	139	ASN	CA-C-O	5.93	126.84	120.55
1	9c	43	LEU	N-CA-C	5.93	117.75	111.28
1	9q	69	LEU	N-CA-C	5.93	117.42	111.07
1	9K	97	ARG	N-CA-C	5.93	118.61	110.24
1	9X	11	VAL	O-C-N	-5.93	116.46	123.04
1	a0	101	GLY	O-C-N	-5.93	114.99	122.70
1	a2	63	GLN	O-C-N	-5.93	115.96	122.07
1	a3	209	ALA	N-CA-C	5.93	123.44	110.80
1	a4	29	GLU	CA-C-O	5.93	126.71	120.42
1	ae	31	ALA	CA-C-N	5.93	132.76	122.56
1	ae	31	ALA	C-N-CA	5.93	132.76	122.56
1	af	213	GLU	O-C-N	-5.93	115.96	122.07
1	am	198	CYS	CA-C-O	-5.93	114.26	120.55
1	aX	113	GLU	CB-CA-C	-5.93	100.59	110.68
1	ba	45	GLU	CA-C-O	5.93	127.52	120.70
1	bn	223	GLY	CA-C-N	5.93	127.26	119.84
1	bn	223	GLY	C-N-CA	5.93	127.26	119.84
1	bt	70	LYS	CB-CA-C	5.93	120.19	110.88
1	cn	208	ALA	CB-CA-C	-5.93	101.57	110.88
1	cv	26	VAL	CA-C-O	5.93	127.12	120.95
1	cD	181	VAL	N-CA-C	-5.93	104.72	110.42
1	cQ	129	ILE	CB-CA-C	-5.93	104.38	111.97
1	cS	167	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	cT	143	ARG	N-CA-C	5.93	117.55	111.14
1	cX	37	ILE	CA-C-N	5.93	127.25	119.84
1	cX	37	ILE	C-N-CA	5.93	127.25	119.84
1	1i	159	GLU	CA-C-N	5.93	127.26	119.84
1	1i	159	GLU	C-N-CA	5.93	127.26	119.84
1	d6	17	PRO	CA-C-N	5.93	129.33	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d6	17	PRO	C-N-CA	5.93	129.33	120.31
1	d6	130	TYR	CA-C-N	5.93	128.55	120.54
1	d6	130	TYR	C-N-CA	5.93	128.55	120.54
1	di	125	PRO	N-CD-CG	5.93	112.10	103.20
1	dm	15	ILE	O-C-N	-5.93	117.03	122.79
1	dr	191	VAL	N-CA-CB	5.93	119.48	110.58
1	dz	14	ALA	O-C-N	-5.93	115.86	122.86
1	dz	115	ILE	CB-CA-C	5.93	120.15	112.14
1	dD	181	VAL	CA-C-N	5.93	128.55	120.54
1	dD	181	VAL	C-N-CA	5.93	128.55	120.54
1	dJ	184	TRP	CA-CB-CG	5.93	124.87	113.60
1	dM	130	TYR	O-C-N	-5.93	115.92	122.09
1	dS	23	TRP	N-CA-C	5.93	117.75	111.28
1	e1	182	LYS	N-CA-CB	5.93	118.96	110.06
1	e6	9	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	eg	115	ILE	CA-C-N	5.93	126.57	119.98
1	eg	115	ILE	C-N-CA	5.93	126.57	119.98
1	eh	27	VAL	CA-C-O	5.93	126.88	120.47
1	em	40	PHE	CA-CB-CG	-5.93	107.87	113.80
1	eo	130	TYR	CA-C-N	5.93	128.71	120.29
1	eo	130	TYR	C-N-CA	5.93	128.71	120.29
1	eC	219	GLN	CA-C-N	5.93	131.35	120.79
1	eC	219	GLN	C-N-CA	5.93	131.35	120.79
1	1s	4	GLN	N-CA-C	5.93	118.44	111.02
1	eO	159	GLU	N-CA-C	5.93	118.22	109.50
1	fr	139	ASN	CA-CB-CG	-5.93	106.67	112.60
1	fE	180	GLU	CA-C-N	5.93	128.25	120.60
1	fE	180	GLU	C-N-CA	5.93	128.25	120.60
1	fN	91	ILE	N-CA-CB	5.93	120.87	110.49
1	g	172	LEU	N-CA-C	5.93	117.42	111.07
1	m	50	GLN	CA-C-N	5.93	128.23	120.28
1	m	50	GLN	C-N-CA	5.93	128.23	120.28
1	v	113	GLU	N-CA-CB	5.93	118.84	110.12
1	D	218	CYS	N-CA-C	5.93	119.78	112.54
1	gq	154	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	gJ	141	ILE	CA-CB-CG1	5.93	120.48	110.40
1	gN	90	PRO	N-CA-CB	5.93	108.53	103.19
1	gR	211	LEU	N-CA-CB	-5.93	101.40	110.12
1	gS	146	SER	CA-C-N	5.93	127.25	119.84
1	gS	146	SER	C-N-CA	5.93	127.25	119.84
1	hp	78	ALA	CA-C-N	5.93	128.23	120.28
1	hp	78	ALA	C-N-CA	5.93	128.23	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i5	112	GLN	CA-C-N	5.93	128.71	120.29
1	i5	112	GLN	C-N-CA	5.93	128.71	120.29
1	in	98	GLU	CA-C-O	5.93	127.17	120.70
1	iF	150	ILE	CA-C-N	5.93	130.72	120.58
1	iF	150	ILE	C-N-CA	5.93	130.72	120.58
1	iX	24	VAL	N-CA-C	5.93	118.50	111.09
1	j9	159	GLU	N-CA-C	5.93	118.22	109.62
1	1Z	153	ILE	O-C-N	-5.93	115.16	122.57
1	k1	39	MET	CA-C-O	5.93	126.84	120.55
1	kd	152	ASP	CA-C-N	5.93	130.08	121.18
1	kd	152	ASP	C-N-CA	5.93	130.08	121.18
1	kl	82	ARG	N-CA-C	5.93	118.70	111.82
1	kr	118	MET	N-CA-C	5.93	117.74	111.28
1	25	104	ILE	N-CA-CB	5.93	117.49	110.55
1	l7	205	LEU	CA-C-O	-5.93	114.59	120.70
1	26	102	SER	CA-C-N	5.93	128.23	120.28
1	26	102	SER	C-N-CA	5.93	128.23	120.28
1	lm	12	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	lC	35	GLU	N-CA-C	-5.93	105.81	113.16
1	lJ	71	GLU	N-CA-C	5.93	118.51	111.33
1	2Z	66	MET	O-C-N	-5.93	114.97	122.27
1	3H	4	GLN	CB-CG-CD	5.93	122.68	112.60
1	46	68	MET	N-CA-C	5.93	118.70	111.82
1	4C	179	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	4Z	73	ILE	N-CA-CB	5.93	117.49	110.55
1	55	35	GLU	CA-C-N	5.93	132.65	121.97
1	55	35	GLU	C-N-CA	5.93	132.65	121.97
1	5o	102	SER	CA-C-O	5.93	126.67	119.38
1	5K	84	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	6q	103	ASP	CA-C-O	5.93	126.79	119.79
1	6y	130	TYR	CA-C-O	5.93	126.71	120.42
1	6K	26	VAL	CA-C-N	5.93	128.25	120.60
1	6K	26	VAL	C-N-CA	5.93	128.25	120.60
1	7e	58	THR	N-CA-C	5.93	117.75	111.28
1	7f	99	PRO	N-CA-C	5.93	119.81	111.33
1	7g	62	HIS	ND1-CG-CD2	5.93	112.03	106.10
1	7k	12	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	7n	100	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	7Y	90	PRO	CA-C-O	-5.93	114.66	121.36
1	8n	69	LEU	CB-CA-C	5.93	120.30	110.81
1	9f	211	LEU	O-C-N	-5.93	115.44	122.20
1	9O	169	TYR	CB-CG-CD2	-5.93	111.90	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ad	179	GLN	CG-CD-NE2	-5.93	107.50	116.40
1	av	41	SER	N-CA-C	5.93	117.42	111.07
1	ay	223	GLY	CA-C-O	5.93	130.00	121.52
1	aK	96	MET	CA-C-N	5.93	129.71	120.75
1	aK	96	MET	C-N-CA	5.93	129.71	120.75
1	b4	217	ALA	O-C-N	-5.93	114.52	122.23
1	16	117	TRP	O-C-N	-5.93	115.83	122.12
1	cH	167	ARG	NH1-CZ-NH2	-5.93	111.59	119.30
1	d6	75	GLU	N-CA-C	5.93	123.43	110.80
1	dE	211	LEU	CA-C-N	5.93	128.51	120.38
1	dE	211	LEU	C-N-CA	5.93	128.51	120.38
1	dF	120	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	e6	150	ILE	CA-C-N	5.93	129.32	120.31
1	e6	150	ILE	C-N-CA	5.93	129.32	120.31
1	ec	127	GLY	CA-C-O	5.93	126.44	120.09
1	1u	210	THR	O-C-N	-5.93	116.26	122.96
1	f4	5	ASN	CB-CA-C	-5.93	101.57	110.88
1	fi	175	GLU	CB-CA-C	5.93	119.15	109.90
1	ft	198	CYS	CA-C-O	5.93	126.80	120.10
1	fv	37	ILE	CB-CA-C	-5.93	106.23	114.00
1	ge	12	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	gg	181	VAL	CA-CB-CG1	5.93	120.48	110.40
1	gn	197	ASP	CA-C-N	5.93	128.15	120.44
1	gn	197	ASP	C-N-CA	5.93	128.15	120.44
1	gE	67	GLN	CA-C-O	5.93	127.05	120.82
1	gH	133	TRP	CB-CG-CD2	5.93	135.10	126.80
1	gM	220	GLY	CA-C-O	5.93	125.60	119.02
1	h1	196	PRO	CA-C-N	5.93	128.23	120.28
1	h1	196	PRO	C-N-CA	5.93	128.23	120.28
1	ha	165	VAL	CA-C-N	5.93	128.15	120.44
1	ha	165	VAL	C-N-CA	5.93	128.15	120.44
1	hn	73	ILE	O-C-N	-5.93	116.12	121.87
1	hy	168	PHE	CA-CB-CG	5.93	119.73	113.80
1	hG	226	HIS	CA-C-N	5.93	129.54	120.82
1	hG	226	HIS	C-N-CA	5.93	129.54	120.82
1	hO	26	VAL	CA-C-N	5.93	128.58	120.46
1	hO	26	VAL	C-N-CA	5.93	128.58	120.46
1	hP	219	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	hR	11	VAL	N-CA-C	-5.93	99.58	108.12
1	i0	92	GLU	CA-C-N	5.93	127.25	119.84
1	i0	92	GLU	C-N-CA	5.93	127.25	119.84
1	1O	168	PHE	CA-C-N	5.93	128.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	168	PHE	C-N-CA	5.93	128.82	120.28
1	iG	44	SER	O-C-N	-5.93	114.54	122.19
1	iM	143	ARG	CA-C-N	5.93	128.82	120.28
1	iM	143	ARG	C-N-CA	5.93	128.82	120.28
1	j3	77	ALA	O-C-N	-5.93	115.83	122.12
1	j6	223	GLY	O-C-N	-5.93	115.84	121.77
1	je	150	ILE	N-CA-C	-5.93	107.72	113.53
1	jg	170	LYS	CA-C-O	-5.93	114.59	120.70
1	jy	100	ARG	NH1-CZ-NH2	-5.93	111.59	119.30
1	k6	12	HIS	CA-C-N	5.93	131.84	122.94
1	k6	12	HIS	C-N-CA	5.93	131.84	122.94
1	k9	211	LEU	N-CA-C	5.93	118.70	111.82
1	kh	29	GLU	N-CA-CB	5.93	119.38	110.19
1	kh	46	GLY	CA-C-N	5.93	129.29	120.87
1	kh	46	GLY	C-N-CA	5.93	129.29	120.87
1	ki	183	ASN	CB-CG-ND2	5.93	125.30	116.40
1	kn	120	HIS	CG-CD2-NE2	5.93	113.13	107.20
1	kD	55	MET	CG-SD-CE	-5.93	87.85	100.90
1	kH	48	THR	CA-C-O	-5.93	114.50	120.96
1	25	125	PRO	CA-C-N	5.93	128.58	120.46
1	25	125	PRO	C-N-CA	5.93	128.58	120.46
1	l6	82	ARG	NE-CZ-NH2	5.93	124.54	119.20
1	lc	156	GLY	CA-C-N	5.93	126.08	119.32
1	lc	156	GLY	C-N-CA	5.93	126.08	119.32
1	ll	191	VAL	CA-C-N	5.93	128.82	120.28
1	ll	191	VAL	C-N-CA	5.93	128.82	120.28
1	lK	3	VAL	O-C-N	-5.93	116.80	123.20
1	lL	162	ARG	CA-C-O	5.93	126.83	120.55
1	lM	20	LEU	O-C-N	-5.93	115.83	122.12
1	lN	57	ASN	CA-C-N	5.93	128.54	120.54
1	lN	57	ASN	C-N-CA	5.93	128.54	120.54
1	2i	98	GLU	O-C-N	-5.93	115.35	121.28
1	2o	197	ASP	O-C-N	-5.93	115.39	122.15
1	2r	230	VAL	CA-C-O	5.93	128.12	120.95
1	2L	191	VAL	N-CA-CB	5.93	117.35	110.65
1	2Q	141	ILE	N-CA-CB	5.93	118.60	110.54
1	2R	135	ILE	O-C-N	-5.93	116.12	121.87
1	3a	216	THR	CA-C-O	5.93	126.23	119.18
1	3b	23	TRP	CD2-CE2-CZ2	5.93	128.33	122.40
1	3g	146	SER	CA-C-O	-5.93	113.17	119.22
1	3o	13	GLN	N-CA-C	-5.93	100.06	109.07
1	3o	178	SER	N-CA-C	5.93	118.20	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3x	129	ILE	CA-C-N	5.93	128.15	120.44
1	3x	129	ILE	C-N-CA	5.93	128.15	120.44
1	43	133	TRP	CA-C-N	5.93	128.58	120.46
1	43	133	TRP	C-N-CA	5.93	128.58	120.46
1	4k	155	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	4y	12	HIS	CB-CG-ND1	5.93	131.59	122.70
1	4L	21	ASN	CA-C-O	5.93	126.80	120.10
1	4M	98	GLU	O-C-N	-5.93	114.79	121.43
1	4O	213	GLU	CA-C-N	5.93	128.71	120.29
1	4O	213	GLU	C-N-CA	5.93	128.71	120.29
1	4X	26	VAL	CA-CB-CG2	-5.93	100.32	110.40
1	5i	189	LEU	CA-C-N	5.93	128.54	120.54
1	5i	189	LEU	C-N-CA	5.93	128.54	120.54
1	5j	132	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	5o	26	VAL	CA-C-O	-5.93	114.56	120.85
1	5U	217	ALA	CA-C-N	5.93	131.28	122.74
1	5U	217	ALA	C-N-CA	5.93	131.28	122.74
1	63	28	GLU	N-CA-C	5.93	117.74	111.28
1	6a	223	GLY	CA-C-O	-5.93	113.04	121.52
1	6o	125	PRO	CB-CA-C	-5.93	104.49	112.97
1	6w	114	GLN	N-CA-C	5.93	117.74	111.28
1	6z	15	ILE	N-CA-C	5.93	117.37	109.37
1	6M	162	ARG	NH1-CZ-NH2	-5.93	111.59	119.30
1	7b	56	LEU	CA-C-O	5.93	126.81	120.70
1	7p	38	PRO	CA-C-N	5.93	128.15	120.44
1	7p	38	PRO	C-N-CA	5.93	128.15	120.44
1	7p	127	GLY	O-C-N	-5.93	114.99	122.70
1	7I	5	ASN	CA-CB-CG	-5.93	106.67	112.60
1	7K	187	GLU	N-CA-C	5.93	117.82	111.36
1	7S	196	PRO	N-CA-C	5.93	122.59	113.75
1	84	28	GLU	N-CA-CB	5.93	118.58	109.98
1	8v	210	THR	O-C-N	-5.93	116.42	123.06
1	8H	153	ILE	N-CA-CB	5.93	118.93	111.46
1	8O	128	GLU	CA-C-N	5.93	128.25	120.60
1	8O	128	GLU	C-N-CA	5.93	128.25	120.60
1	8S	74	ASN	CB-CA-C	5.93	120.19	110.88
1	8X	29	GLU	N-CA-C	5.93	117.82	111.36
1	9a	216	THR	N-CA-CB	5.93	119.22	110.33
1	9o	89	GLY	CA-C-N	5.93	127.25	119.84
1	9o	89	GLY	C-N-CA	5.93	127.25	119.84
1	9v	168	PHE	N-CA-CB	-5.93	101.40	110.12
1	9G	102	SER	N-CA-C	5.93	117.74	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9H	21	ASN	CA-CB-CG	5.93	118.53	112.60
1	9H	24	VAL	O-C-N	-5.93	116.10	121.91
1	9O	120	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	9W	84	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	aj	131	LYS	N-CA-C	5.93	117.74	111.28
1	aA	16	SER	O-C-N	-5.93	114.79	121.43
1	aD	219	GLN	CA-C-N	5.93	129.07	122.55
1	aD	219	GLN	C-N-CA	5.93	129.07	122.55
1	aY	152	ASP	N-CA-C	-5.93	105.36	113.30
1	b0	59	VAL	CA-C-N	5.93	126.52	120.00
1	b0	59	VAL	C-N-CA	5.93	126.52	120.00
1	17	68	MET	CA-C-N	5.93	128.22	120.28
1	17	68	MET	C-N-CA	5.93	128.22	120.28
1	bE	56	LEU	N-CA-C	5.93	118.70	111.82
1	c4	43	LEU	O-C-N	-5.93	115.28	122.22
1	c4	129	ILE	N-CA-C	5.93	116.67	110.62
1	ce	189	LEU	CB-CA-C	5.93	120.93	110.85
1	cj	162	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	cq	163	ASP	N-CA-CB	5.93	118.61	110.01
1	cA	11	VAL	O-C-N	-5.93	116.19	122.95
1	cF	141	ILE	CA-C-N	5.93	128.03	120.56
1	cF	141	ILE	C-N-CA	5.93	128.03	120.56
1	cH	208	ALA	CA-C-N	5.93	130.15	121.31
1	cH	208	ALA	C-N-CA	5.93	130.15	121.31
1	d1	185	MET	CA-C-N	5.93	128.23	120.28
1	d1	185	MET	C-N-CA	5.93	128.23	120.28
1	d6	92	GLU	CA-C-O	-5.93	114.89	119.46
1	de	185	MET	CA-C-N	5.93	128.15	120.44
1	de	185	MET	C-N-CA	5.93	128.15	120.44
1	dg	80	TRP	O-C-N	-5.93	115.83	122.12
1	dn	177	ALA	CA-C-O	5.93	127.71	121.19
1	dD	160	PRO	CA-C-N	5.93	128.22	120.28
1	dD	160	PRO	C-N-CA	5.93	128.22	120.28
1	dD	214	MET	O-C-N	-5.93	115.96	122.07
1	1m	59	VAL	N-CA-C	5.93	117.46	111.00
1	dP	15	ILE	N-CA-C	5.93	116.71	109.30
1	e1	62	HIS	CA-CB-CG	-5.93	107.87	113.80
1	ea	80	TRP	CA-C-O	-5.93	114.56	120.90
1	ec	171	THR	CA-C-N	5.93	128.71	120.29
1	ec	171	THR	C-N-CA	5.93	128.71	120.29
1	er	47	ALA	N-CA-C	5.93	118.93	110.10
1	1r	6	LEU	N-CA-C	5.93	118.60	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ex	183	ASN	CA-C-N	5.93	128.22	120.28
1	ex	183	ASN	C-N-CA	5.93	128.22	120.28
1	eJ	100	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	eX	174	ALA	O-C-N	-5.93	115.83	122.12
1	f6	97	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	ff	158	LYS	N-CA-CB	-5.93	101.43	110.92
1	fs	203	LYS	N-CA-C	5.93	117.74	111.28
1	1x	211	LEU	N-CA-C	5.93	118.50	111.33
1	fw	160	PRO	CA-C-N	5.93	128.22	120.28
1	fw	160	PRO	C-N-CA	5.93	128.22	120.28
1	fz	115	ILE	CA-C-O	5.93	127.12	120.95
1	fE	80	TRP	CA-C-N	5.93	128.22	120.28
1	fE	80	TRP	C-N-CA	5.93	128.22	120.28
1	fI	41	SER	CA-C-N	5.93	129.03	120.79
1	fI	41	SER	C-N-CA	5.93	129.03	120.79
1	fS	146	SER	CB-CA-C	5.93	118.43	110.13
1	g2	179	GLN	O-C-N	-5.93	115.96	122.07
1	O	101	GLY	CA-C-N	5.93	130.62	120.72
1	O	101	GLY	C-N-CA	5.93	130.62	120.72
1	R	59	VAL	N-CA-C	5.93	117.12	108.58
1	gn	116	GLY	CA-C-O	-5.93	114.64	120.75
1	gM	139	ASN	OD1-CG-ND2	5.93	128.53	122.60
1	ha	24	VAL	CA-C-N	5.93	128.15	120.44
1	ha	24	VAL	C-N-CA	5.93	128.15	120.44
1	1J	187	GLU	N-CA-C	5.93	117.74	111.28
1	in	180	GLU	CA-C-N	5.93	128.89	120.53
1	in	180	GLU	C-N-CA	5.93	128.89	120.53
1	ix	119	THR	CA-CB-OG1	5.93	118.49	109.60
1	ix	185	MET	N-CA-C	5.93	117.74	111.28
1	iI	174	ALA	N-CA-C	5.93	117.74	111.28
1	1T	125	PRO	CA-C-N	5.93	128.58	120.46
1	1T	125	PRO	C-N-CA	5.93	128.58	120.46
1	j4	87	HIS	CA-C-O	5.93	128.99	120.51
1	jc	71	GLU	CA-C-N	5.93	128.15	120.44
1	jc	71	GLU	C-N-CA	5.93	128.15	120.44
1	jq	132	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	jt	4	GLN	CA-C-N	5.93	129.18	120.82
1	jt	4	GLN	C-N-CA	5.93	129.18	120.82
1	jR	211	LEU	CA-C-O	5.93	126.81	120.70
1	k3	3	VAL	CA-C-O	-5.93	115.98	120.96
1	20	95	GLN	O-C-N	-5.93	116.01	123.01
1	kg	139	ASN	CA-CB-CG	-5.93	106.67	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	63	GLN	O-C-N	-5.93	113.99	122.41
1	le	103	ASP	N-CA-C	-5.93	104.90	111.36
1	lD	24	VAL	CB-CA-C	-5.93	104.38	111.97
1	lL	224	PRO	CA-C-N	5.93	131.17	122.10
1	lL	224	PRO	C-N-CA	5.93	131.17	122.10
1	lQ	148	THR	O-C-N	-5.93	115.07	122.24
1	33	63	GLN	N-CA-C	5.93	117.74	111.28
1	3i	7	GLN	CA-C-N	5.93	133.03	121.41
1	3i	7	GLN	C-N-CA	5.93	133.03	121.41
1	3s	148	THR	CA-CB-OG1	5.93	118.49	109.60
1	3u	152	ASP	O-C-N	-5.93	114.19	122.37
1	3x	117	TRP	CE2-CD2-CE3	5.93	124.73	118.80
1	3x	226	HIS	CG-CD2-NE2	5.93	113.13	107.20
1	3N	84	HIS	CB-CG-CD2	-5.93	123.49	131.20
1	5W	177	ALA	CA-C-N	5.93	132.86	121.54
1	5W	177	ALA	C-N-CA	5.93	132.86	121.54
1	63	84	HIS	CA-C-N	5.93	125.94	119.89
1	63	84	HIS	C-N-CA	5.93	125.94	119.89
1	64	126	VAL	N-CA-C	5.93	116.67	110.62
1	82	148	THR	CA-CB-OG1	5.93	118.49	109.60
1	8B	24	VAL	CB-CA-C	5.93	120.40	112.22
1	8E	87	HIS	CA-CB-CG	5.93	119.73	113.80
1	a4	26	VAL	CA-C-O	5.93	127.12	120.95
1	ag	87	HIS	CA-CB-CG	5.93	119.73	113.80
1	aw	178	SER	N-CA-C	5.93	118.86	110.50
1	ax	107	THR	CA-C-O	5.93	126.95	119.78
1	aK	202	LEU	O-C-N	-5.93	115.39	122.15
1	15	154	ARG	CA-C-N	5.93	129.26	120.90
1	15	154	ARG	C-N-CA	5.93	129.26	120.90
1	be	51	ASP	O-C-N	-5.93	115.84	122.12
1	bu	19	THR	CB-CA-C	-5.93	99.29	110.67
1	19	26	VAL	CA-CB-CG1	5.93	120.48	110.40
1	bI	199	LYS	CA-C-N	5.93	128.71	120.29
1	bI	199	LYS	C-N-CA	5.93	128.71	120.29
1	bJ	223	GLY	CA-C-N	5.93	125.89	119.78
1	bJ	223	GLY	C-N-CA	5.93	125.89	119.78
1	bU	165	VAL	CA-C-N	5.93	128.54	120.54
1	bU	165	VAL	C-N-CA	5.93	128.54	120.54
1	cD	119	THR	CA-C-N	5.93	130.89	120.87
1	cD	119	THR	C-N-CA	5.93	130.89	120.87
1	cP	181	VAL	N-CA-C	5.93	116.11	110.42
1	eb	93	PRO	CB-CA-C	5.93	119.17	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eg	80	TRP	CB-CG-CD2	-5.93	118.50	126.80
1	eh	159	GLU	O-C-N	-5.93	115.35	121.28
1	eC	93	PRO	N-CA-C	5.93	124.68	112.47
1	eP	40	PHE	N-CA-C	5.93	118.22	111.11
1	fk	18	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	fE	18	ARG	NE-CZ-NH2	-5.93	113.86	119.20
1	fO	78	ALA	N-CA-C	5.93	118.70	111.82
1	fU	72	THR	CA-C-N	5.93	128.03	120.56
1	fU	72	THR	C-N-CA	5.93	128.03	120.56
1	fZ	121	ASN	CA-C-O	-5.93	114.97	119.59
1	b	177	ALA	CA-C-N	5.93	129.70	120.75
1	b	177	ALA	C-N-CA	5.93	129.70	120.75
1	z	140	LYS	CA-C-N	5.93	128.03	120.56
1	z	140	LYS	C-N-CA	5.93	128.03	120.56
1	9	165	VAL	O-C-N	-5.93	116.10	121.91
1	gk	18	ARG	O-C-N	-5.93	115.29	122.22
1	gv	148	THR	N-CA-C	5.93	118.17	110.53
1	gx	179	GLN	CA-C-N	5.93	128.22	120.28
1	gx	179	GLN	C-N-CA	5.93	128.22	120.28
1	gG	135	ILE	N-CA-C	5.93	117.38	110.62
1	gL	160	PRO	CA-C-N	5.93	128.50	120.38
1	gL	160	PRO	C-N-CA	5.93	128.50	120.38
1	1F	20	LEU	CB-CA-C	5.93	120.18	110.88
1	gS	24	VAL	N-CA-CB	5.93	117.88	110.47
1	h0	159	GLU	CA-C-N	5.93	125.88	119.78
1	h0	159	GLU	C-N-CA	5.93	125.88	119.78
1	1H	65	ALA	CA-C-N	5.93	128.14	120.44
1	1H	65	ALA	C-N-CA	5.93	128.14	120.44
1	h9	52	LEU	N-CA-C	5.93	118.22	111.11
1	ht	154	ARG	O-C-N	-5.93	116.16	123.33
1	ht	197	ASP	CB-CA-C	5.93	120.27	110.90
1	hx	129	ILE	CA-C-O	5.93	127.45	121.17
1	hF	203	LYS	N-CA-C	5.93	120.35	113.18
1	ib	138	LEU	O-C-N	-5.93	115.84	122.12
1	ih	181	VAL	N-CA-CB	5.93	117.48	110.55
1	iv	82	ARG	CA-C-O	5.93	126.83	120.55
1	iA	212	GLU	N-CA-C	5.93	117.74	111.28
1	iB	10	MET	O-C-N	-5.93	115.52	122.81
1	iM	3	VAL	CA-CB-CG2	-5.93	100.33	110.40
1	j0	137	GLY	CA-C-N	5.93	128.22	120.28
1	j0	137	GLY	C-N-CA	5.93	128.22	120.28
1	jl	84	HIS	CE1-NE2-CD2	-5.93	103.07	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	209	ALA	N-CA-C	5.93	119.05	110.28
1	jI	73	ILE	N-CA-C	5.93	116.67	110.62
1	jJ	207	PRO	N-CA-C	5.93	124.68	112.47
1	kf	106	GLY	N-CA-C	-5.93	107.48	115.36
1	ki	191	VAL	N-CA-C	5.93	116.11	110.42
1	22	109	SER	CA-C-N	5.93	131.23	121.39
1	22	109	SER	C-N-CA	5.93	131.23	121.39
1	kx	194	ALA	N-CA-C	5.93	118.19	110.43
1	kJ	73	ILE	O-C-N	-5.93	116.10	121.91
1	kZ	99	PRO	O-C-N	-5.93	116.19	123.01
1	ll	9	GLN	CA-C-N	5.93	132.86	121.54
1	ll	9	GLN	C-N-CA	5.93	132.86	121.54
1	lu	178	SER	N-CA-C	5.93	118.41	110.35
1	29	162	ARG	NE-CZ-NH2	5.93	124.53	119.20
1	lD	80	TRP	CA-CB-CG	5.93	124.86	113.60
1	lF	229	ARG	NH1-CZ-NH2	-5.93	111.59	119.30
1	lK	159	GLU	N-CA-C	5.93	118.19	109.42
1	lL	192	GLN	CA-C-N	5.93	129.32	120.31
1	lL	192	GLN	C-N-CA	5.93	129.32	120.31
1	lP	155	GLN	N-CA-C	5.93	118.85	109.96
1	2j	41	SER	CA-C-O	5.93	127.04	120.82
1	2o	7	GLN	CG-CD-NE2	5.93	125.29	116.40
1	2t	51	ASP	CA-C-N	5.93	128.71	120.29
1	2t	51	ASP	C-N-CA	5.93	128.71	120.29
1	2E	219	GLN	N-CA-CB	5.93	118.68	109.85
1	2F	164	TYR	N-CA-C	5.93	117.41	111.07
1	2N	162	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	3d	127	GLY	CA-C-N	5.93	128.71	120.29
1	3d	127	GLY	C-N-CA	5.93	128.71	120.29
1	3e	109	SER	CA-C-O	-5.93	114.46	121.16
1	3i	18	ARG	N-CA-CB	5.93	118.66	110.07
1	3r	209	ALA	N-CA-C	5.93	118.41	110.35
1	3A	175	GLU	O-C-N	-5.93	115.66	122.89
1	3N	179	GLN	CA-C-O	-5.93	114.23	120.63
1	3R	84	HIS	CA-CB-CG	-5.93	107.87	113.80
1	43	25	LYS	CA-C-O	-5.93	114.14	120.42
1	4d	122	PRO	CA-C-N	5.93	126.26	119.92
1	4d	122	PRO	C-N-CA	5.93	126.26	119.92
1	4d	196	PRO	CA-C-N	5.93	128.14	120.44
1	4d	196	PRO	C-N-CA	5.93	128.14	120.44
1	4f	212	GLU	CA-C-N	5.93	128.15	120.44
1	4f	212	GLU	C-N-CA	5.93	128.15	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4v	29	GLU	N-CA-CB	-5.93	103.02	110.90
1	4A	124	ILE	N-CA-CB	5.93	119.51	111.21
1	4F	40	PHE	N-CA-C	5.93	117.74	111.28
1	4F	111	LEU	N-CA-C	5.93	118.50	111.33
1	4K	169	TYR	O-C-N	-5.93	115.84	122.12
1	4P	158	LYS	CA-C-N	5.93	128.63	120.39
1	4P	158	LYS	C-N-CA	5.93	128.63	120.39
1	4R	229	ARG	CA-C-O	5.93	126.49	119.56
1	52	68	MET	CG-SD-CE	-5.93	87.86	100.90
1	5d	78	ALA	N-CA-C	5.93	117.41	111.07
1	5g	100	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	5r	177	ALA	CA-C-N	5.93	132.86	121.54
1	5r	177	ALA	C-N-CA	5.93	132.86	121.54
1	5A	166	ASP	CB-CA-C	-5.93	100.95	110.79
1	5E	173	ARG	NE-CZ-NH1	-5.93	115.57	121.50
1	5L	188	THR	O-C-N	-5.93	114.80	122.09
1	5O	95	GLN	O-C-N	-5.93	116.49	123.25
1	5Y	76	GLU	CA-C-N	5.93	128.71	120.29
1	5Y	76	GLU	C-N-CA	5.93	128.71	120.29
1	66	117	TRP	CB-CG-CD2	-5.93	118.50	126.80
1	6b	120	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	6d	37	ILE	CA-C-N	5.93	125.47	119.19
1	6d	37	ILE	C-N-CA	5.93	125.47	119.19
1	6g	146	SER	N-CA-C	5.93	121.58	113.16
1	6g	150	ILE	N-CA-C	-5.93	107.35	113.10
1	6w	230	VAL	CA-CB-CG1	-5.93	100.33	110.40
1	6W	90	PRO	N-CA-CB	5.93	109.47	103.25
1	6Y	128	GLU	CA-C-N	5.93	128.03	120.56
1	6Y	128	GLU	C-N-CA	5.93	128.03	120.56
1	7e	103	ASP	N-CA-C	-5.93	104.90	111.36
1	7h	164	TYR	N-CA-C	5.93	117.74	111.28
1	7k	30	LYS	CA-C-O	5.93	126.83	120.55
1	7q	58	THR	N-CA-C	5.93	118.69	111.82
1	7t	85	PRO	N-CA-C	5.93	120.53	111.11
1	7z	53	ASN	O-C-N	-5.93	115.97	122.07
1	7H	124	ILE	CB-CA-C	5.93	117.83	110.95
1	7K	14	ALA	N-CA-CB	-5.93	101.26	109.97
1	80	162	ARG	N-CA-C	5.93	118.22	111.11
1	86	117	TRP	N-CA-CB	5.93	118.83	110.12
1	8d	86	VAL	N-CA-CB	5.93	120.86	110.49
1	8k	24	VAL	CB-CA-C	-5.93	102.97	112.16
1	8D	143	ARG	CA-C-O	-5.93	114.27	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8D	168	PHE	CA-C-N	5.93	128.22	120.28
1	8D	168	PHE	C-N-CA	5.93	128.22	120.28
1	8G	67	GLN	CA-C-N	5.93	129.32	120.31
1	8G	67	GLN	C-N-CA	5.93	129.32	120.31
1	8N	176	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	8S	129	ILE	N-CA-CB	5.93	117.48	110.55
1	8Y	140	LYS	N-CA-C	5.93	117.74	111.28
1	9n	10	MET	CA-C-O	5.93	127.24	120.54
1	9t	32	PHE	CA-CB-CG	-5.93	107.87	113.80
1	9O	87	HIS	N-CA-C	5.93	118.93	110.10
1	a2	65	ALA	N-CA-C	5.93	117.41	111.07
1	a9	45	GLU	CB-CA-C	5.93	118.30	110.06
1	ab	166	ASP	N-CA-CB	-5.93	101.41	110.12
1	af	13	GLN	OE1-CD-NE2	5.93	128.53	122.60
1	ak	42	ALA	CA-C-N	5.93	128.22	120.28
1	ak	42	ALA	C-N-CA	5.93	128.22	120.28
1	ao	207	PRO	N-CA-C	-5.93	108.52	114.68
1	ap	82	ARG	N-CA-C	5.93	117.74	111.28
1	aq	226	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	aA	209	ALA	O-C-N	-5.93	116.63	123.33
1	14	88	ALA	CA-C-O	5.93	127.71	121.19
1	aT	119	THR	N-CA-CB	5.93	119.26	110.49
1	b6	194	ALA	O-C-N	-5.93	115.36	122.65
1	b7	139	ASN	CA-CB-CG	5.93	118.53	112.60
1	bh	184	TRP	N-CA-C	5.93	117.74	111.28
1	17	68	MET	N-CA-C	5.93	117.41	111.07
1	bU	126	VAL	N-CA-C	5.93	118.46	111.05
1	bW	149	SER	N-CA-C	5.93	117.94	110.24
1	c1	49	PRO	CA-C-N	5.93	128.22	120.28
1	c1	49	PRO	C-N-CA	5.93	128.22	120.28
1	cg	23	TRP	CB-CA-C	5.93	120.18	110.88
1	cj	81	ASP	CA-CB-CG	-5.93	106.67	112.60
1	cl	142	VAL	O-C-N	-5.93	116.12	121.87
1	cp	53	ASN	N-CA-C	5.93	117.74	111.28
1	cz	166	ASP	N-CA-C	5.93	117.41	111.07
1	cC	204	ALA	CA-C-N	5.93	128.81	120.28
1	cC	204	ALA	C-N-CA	5.93	128.81	120.28
1	cO	70	LYS	N-CA-C	5.93	117.74	111.28
1	cQ	87	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
1	cS	217	ALA	CA-C-N	5.93	131.39	122.68
1	cS	217	ALA	C-N-CA	5.93	131.39	122.68
1	cZ	23	TRP	CA-C-O	5.93	127.24	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dk	208	ALA	CA-C-N	5.93	129.70	120.75
1	dk	208	ALA	C-N-CA	5.93	129.70	120.75
1	dt	155	GLN	OE1-CD-NE2	-5.93	116.67	122.60
1	dw	103	ASP	N-CA-C	-5.93	104.90	111.36
1	dH	229	ARG	NE-CZ-NH1	5.93	127.43	121.50
1	dQ	76	GLU	CA-C-N	5.93	128.22	120.28
1	dQ	76	GLU	C-N-CA	5.93	128.22	120.28
1	e2	79	GLU	O-C-N	-5.93	115.84	122.12
1	e2	105	ALA	N-CA-C	5.93	118.53	111.71
1	ep	68	MET	O-C-N	-5.93	115.84	122.12
1	eu	223	GLY	CA-C-N	5.93	127.25	119.84
1	eu	223	GLY	C-N-CA	5.93	127.25	119.84
1	ex	221	VAL	CA-C-O	5.93	126.55	120.39
1	ey	37	ILE	O-C-N	-5.93	115.86	120.07
1	ez	96	MET	N-CA-C	5.93	118.86	110.50
1	eE	72	THR	CA-CB-CG2	5.93	120.58	110.50
1	fn	79	GLU	CA-C-N	5.93	128.15	120.44
1	fn	79	GLU	C-N-CA	5.93	128.15	120.44
1	fC	39	MET	N-CA-CB	5.93	118.60	110.01
1	fR	54	THR	OG1-CB-CG2	-5.93	97.45	109.30
1	g5	87	HIS	ND1-CE1-NE2	5.93	114.33	108.40
1	0	19	THR	N-CA-C	5.93	117.74	111.28
1	l	179	GLN	N-CA-C	5.93	117.41	111.07
1	2	223	GLY	O-C-N	5.93	127.70	121.77
1	8	132	ARG	CA-C-N	5.93	128.71	120.29
1	8	132	ARG	C-N-CA	5.93	128.71	120.29
1	gc	104	ILE	CB-CA-C	-5.92	104.04	112.22
1	gV	204	ALA	N-CA-C	5.92	119.69	112.23
1	gW	105	ALA	CA-C-O	5.92	126.75	119.05
1	gW	132	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	gY	62	HIS	ND1-CE1-NE2	5.92	114.33	108.40
1	h0	30	LYS	CA-C-N	5.92	129.70	120.75
1	h0	30	LYS	C-N-CA	5.92	129.70	120.75
1	h0	97	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
1	1I	132	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	hn	138	LEU	N-CA-CB	5.92	118.77	109.94
1	hy	37	ILE	CA-CB-CG2	5.92	120.57	110.50
1	hO	125	PRO	CA-C-N	5.92	128.88	120.53
1	hO	125	PRO	C-N-CA	5.92	128.88	120.53
1	hQ	62	HIS	ND1-CG-CD2	5.92	112.03	106.10
1	hT	19	THR	N-CA-C	5.92	117.74	111.28
1	hV	154	ARG	NE-CZ-NH2	-5.92	113.87	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ia	119	THR	N-CA-C	5.92	119.61	112.38
1	il	14	ALA	O-C-N	-5.92	114.71	122.59
1	is	132	ARG	O-C-N	-5.92	115.84	122.12
1	iL	51	ASP	CA-C-N	5.92	128.54	120.54
1	iL	51	ASP	C-N-CA	5.92	128.54	120.54
1	iR	32	PHE	CA-CB-CG	-5.92	107.88	113.80
1	j9	68	MET	CA-C-N	5.92	128.14	120.44
1	j9	68	MET	C-N-CA	5.92	128.14	120.44
1	ji	79	GLU	O-C-N	5.92	129.15	122.22
1	jl	86	VAL	CA-C-O	5.92	127.61	120.74
1	jI	86	VAL	N-CA-C	5.92	118.46	111.05
1	jV	102	SER	CA-C-N	5.92	129.03	120.79
1	jV	102	SER	C-N-CA	5.92	129.03	120.79
1	kc	4	GLN	CB-CA-C	5.92	122.21	110.42
1	kc	114	GLN	N-CA-CB	5.92	118.93	110.16
1	kk	27	VAL	CB-CA-C	-5.92	104.04	112.22
1	ks	11	VAL	CA-C-O	5.92	127.60	120.67
1	kx	165	VAL	CA-C-N	5.92	128.14	120.44
1	kx	165	VAL	C-N-CA	5.92	128.14	120.44
1	kI	77	ALA	CA-C-N	5.92	128.54	120.54
1	kI	77	ALA	C-N-CA	5.92	128.54	120.54
1	l1	112	GLN	CB-CG-CD	5.92	122.67	112.60
1	l5	186	THR	N-CA-C	5.92	117.74	111.28
1	le	195	ASN	CA-C-N	5.92	127.25	119.84
1	le	195	ASN	C-N-CA	5.92	127.25	119.84
1	lf	189	LEU	N-CA-C	5.92	118.50	111.33
1	lg	16	SER	CB-CA-C	5.92	116.60	109.85
1	lQ	204	ALA	CA-C-N	5.92	128.47	120.65
1	lQ	204	ALA	C-N-CA	5.92	128.47	120.65
1	2H	102	SER	CA-C-O	5.92	126.88	119.12
1	2P	102	SER	N-CA-C	-5.92	104.82	111.28
1	2P	224	PRO	O-C-N	-5.92	114.64	122.64
1	3a	7	GLN	N-CA-C	5.92	118.19	110.43
1	3r	188	THR	N-CA-C	5.92	120.53	113.12
1	3s	103	ASP	CA-CB-CG	-5.92	106.67	112.60
1	3y	114	GLN	CA-C-N	5.92	129.83	120.47
1	3y	114	GLN	C-N-CA	5.92	129.83	120.47
1	3O	10	MET	N-CA-C	5.92	118.41	110.35
1	4f	169	TYR	N-CA-C	5.92	117.74	111.28
1	4v	67	GLN	CA-C-N	5.92	128.22	120.28
1	4v	67	GLN	C-N-CA	5.92	128.22	120.28
1	4v	145	TYR	CB-CG-CD1	5.92	129.69	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4G	146	SER	CA-C-O	-5.92	114.38	119.36
1	52	121	ASN	OD1-CG-ND2	-5.92	116.67	122.60
1	53	179	GLN	N-CA-CB	5.92	118.95	110.06
1	55	131	LYS	CA-C-N	5.92	129.31	120.31
1	55	131	LYS	C-N-CA	5.92	129.31	120.31
1	58	120	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	58	150	ILE	CA-C-N	5.92	128.81	120.28
1	58	150	ILE	C-N-CA	5.92	128.81	120.28
1	5h	16	SER	CB-CA-C	-5.92	100.12	109.42
1	5h	192	GLN	O-C-N	5.92	128.40	122.12
1	5y	101	GLY	O-C-N	-5.92	116.50	122.19
1	5J	228	ALA	CA-C-N	5.92	131.84	122.36
1	5J	228	ALA	C-N-CA	5.92	131.84	122.36
1	5T	175	GLU	N-CA-C	5.92	118.55	110.55
1	6d	57	ASN	CA-CB-CG	-5.92	106.67	112.60
1	6e	104	ILE	O-C-N	-5.92	115.89	121.87
1	6r	202	LEU	N-CA-C	5.92	117.74	111.28
1	6E	111	LEU	CA-C-N	5.92	128.81	120.28
1	6E	111	LEU	C-N-CA	5.92	128.81	120.28
1	6J	196	PRO	O-C-N	-5.92	115.78	122.18
1	6M	132	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	70	61	GLY	CA-C-O	-5.92	115.18	122.82
1	7c	118	MET	N-CA-C	-5.92	105.90	113.01
1	7u	138	LEU	N-CA-C	5.92	117.74	111.28
1	7L	19	THR	CA-C-O	-5.92	114.60	120.70
1	84	223	GLY	CA-C-N	5.92	127.25	119.84
1	84	223	GLY	C-N-CA	5.92	127.25	119.84
1	8j	136	LEU	CA-C-N	5.92	126.52	119.94
1	8j	136	LEU	C-N-CA	5.92	126.52	119.94
1	8l	32	PHE	CA-CB-CG	-5.92	107.88	113.80
1	8K	146	SER	N-CA-CB	5.92	119.28	109.98
1	8Z	108	THR	O-C-N	-5.92	114.47	122.41
1	9Z	82	ARG	CD-NE-CZ	5.92	132.69	124.40
1	Z	78	ALA	O-C-N	-5.92	115.39	122.15
1	a4	7	GLN	CB-CG-CD	-5.92	102.53	112.60
1	ah	108	THR	CA-CB-OG1	5.92	118.49	109.60
1	aY	15	ILE	O-C-N	-5.92	116.63	122.67
1	bc	178	SER	O-C-N	-5.92	115.52	122.81
1	bl	191	VAL	N-CA-C	5.92	116.58	110.36
1	br	184	TRP	CA-CB-CG	5.92	124.86	113.60
1	bw	47	ALA	N-CA-C	5.92	119.05	110.28
1	bw	184	TRP	CA-C-N	5.92	128.14	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bw	184	TRP	C-N-CA	5.92	128.14	120.44
1	bL	182	LYS	O-C-N	-5.92	114.39	122.33
1	bQ	148	THR	CB-CA-C	-5.92	99.38	109.51
1	cs	132	ARG	CA-C-O	5.92	126.83	120.55
1	cu	133	TRP	CB-CG-CD2	-5.92	118.51	126.80
1	cy	72	THR	O-C-N	-5.92	115.40	122.15
1	cB	211	LEU	CA-C-N	5.92	128.70	120.29
1	cB	211	LEU	C-N-CA	5.92	128.70	120.29
1	cY	3	VAL	CB-CA-C	5.92	121.00	111.29
1	cZ	63	GLN	N-CA-CB	5.92	118.83	110.12
1	db	20	LEU	CA-C-N	5.92	128.70	120.29
1	db	20	LEU	C-N-CA	5.92	128.70	120.29
1	ds	84	HIS	N-CA-C	5.92	120.20	108.59
1	dA	88	ALA	N-CA-C	5.92	118.79	109.96
1	dA	140	LYS	O-C-N	-5.92	115.97	122.07
1	dB	186	THR	CA-CB-CG2	5.92	120.57	110.50
1	dK	12	HIS	N-CA-C	5.92	119.25	110.48
1	dL	227	LYS	CA-C-N	5.92	129.69	120.75
1	dL	227	LYS	C-N-CA	5.92	129.69	120.75
1	dQ	25	LYS	CA-C-N	5.92	128.58	120.46
1	dQ	25	LYS	C-N-CA	5.92	128.58	120.46
1	1o	204	ALA	O-C-N	-5.92	115.84	122.12
1	eb	28	GLU	CA-C-N	5.92	128.14	120.44
1	eb	28	GLU	C-N-CA	5.92	128.14	120.44
1	ed	13	GLN	O-C-N	5.92	130.50	123.27
1	eh	69	LEU	CB-CA-C	-5.92	101.84	110.96
1	eh	165	VAL	CA-CB-CG1	5.92	120.47	110.40
1	er	188	THR	CA-CB-OG1	5.92	118.49	109.60
1	ez	110	THR	CA-C-N	5.92	128.50	120.38
1	ez	110	THR	C-N-CA	5.92	128.50	120.38
1	1u	212	GLU	N-CA-C	5.92	117.41	111.07
1	f5	56	LEU	O-C-N	-5.92	115.93	122.09
1	fa	148	THR	N-CA-CB	5.92	119.63	110.80
1	ff	132	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
1	fh	173	ARG	N-CA-C	5.92	119.98	112.87
1	fm	42	ALA	N-CA-C	5.92	117.41	111.07
1	fn	55	MET	O-C-N	-5.92	115.74	122.08
1	fq	65	ALA	CA-C-N	5.92	128.14	120.44
1	fq	65	ALA	C-N-CA	5.92	128.14	120.44
1	fy	53	ASN	N-CA-CB	5.92	118.83	110.12
1	fC	167	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	fR	219	GLN	OE1-CD-NE2	-5.92	116.68	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	163	ASP	CA-C-N	5.92	128.14	120.44
1	k	163	ASP	C-N-CA	5.92	128.14	120.44
1	r	113	GLU	N-CA-CB	5.92	118.83	110.12
1	C	37	ILE	O-C-N	-5.92	116.63	120.42
1	D	149	SER	N-CA-C	-5.92	100.49	109.85
1	N	215	MET	CA-C-O	5.92	127.04	120.82
1	V	82	ARG	CA-C-N	5.92	128.14	120.44
1	V	82	ARG	C-N-CA	5.92	128.14	120.44
1	7	123	PRO	CA-C-N	-5.92	118.57	122.60
1	7	123	PRO	C-N-CA	-5.92	118.57	122.60
1	gn	66	MET	N-CA-C	5.92	117.74	111.28
1	gw	22	ALA	N-CA-CB	-5.92	101.41	110.12
1	gE	78	ALA	O-C-N	-5.92	114.98	122.27
1	gQ	186	THR	CA-C-O	-5.92	114.14	120.42
1	hq	37	ILE	CA-C-N	5.92	125.31	118.85
1	hq	37	ILE	C-N-CA	5.92	125.31	118.85
1	hr	138	LEU	N-CA-CB	5.92	118.83	110.12
1	ht	188	THR	CA-CB-OG1	5.92	118.48	109.60
1	hK	218	CYS	N-CA-C	5.92	119.73	111.74
1	i9	150	ILE	CA-C-N	5.92	129.31	120.31
1	i9	150	ILE	C-N-CA	5.92	129.31	120.31
1	iq	227	LYS	CB-CG-CD	5.92	124.92	111.30
1	iI	24	VAL	CA-C-N	5.92	128.70	120.29
1	iI	24	VAL	C-N-CA	5.92	128.70	120.29
1	jc	59	VAL	O-C-N	-5.92	115.73	122.72
1	jz	196	PRO	N-CA-C	5.92	121.65	113.65
1	jP	120	HIS	CA-CB-CG	5.92	119.72	113.80
1	kr	70	LYS	N-CA-C	5.92	118.69	111.82
1	kv	188	THR	OG1-CB-CG2	-5.92	97.45	109.30
1	23	19	THR	O-C-N	-5.92	115.84	122.12
1	kS	20	LEU	CA-C-O	-5.92	114.60	120.82
1	lg	62	HIS	CB-CG-CD2	-5.92	123.50	131.20
1	lq	167	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	2e	206	GLY	N-CA-C	5.92	124.42	112.34
1	2f	4	GLN	N-CA-CB	5.92	120.50	110.49
1	2p	97	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	2B	136	LEU	CA-C-N	5.92	126.52	119.94
1	2B	136	LEU	C-N-CA	5.92	126.52	119.94
1	2Q	162	ARG	N-CA-C	5.92	117.41	111.07
1	36	4	GLN	CA-C-N	5.92	128.22	120.28
1	36	4	GLN	C-N-CA	5.92	128.22	120.28
1	3v	211	LEU	N-CA-CB	5.92	118.77	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	179	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	3J	78	ALA	N-CA-C	5.92	117.82	111.36
1	3Z	170	LYS	CA-C-N	5.92	128.22	120.28
1	3Z	170	LYS	C-N-CA	5.92	128.22	120.28
1	4b	68	MET	N-CA-CB	5.92	118.60	110.01
1	4g	194	ALA	N-CA-C	5.92	118.35	110.53
1	4x	96	MET	N-CA-CB	-5.92	100.73	110.68
1	5D	224	PRO	CA-C-N	5.92	126.40	119.94
1	5D	224	PRO	C-N-CA	5.92	126.40	119.94
1	5H	88	ALA	N-CA-CB	-5.92	103.16	110.98
1	65	176	GLN	CA-C-O	5.92	126.60	119.43
1	66	226	HIS	N-CA-C	5.92	117.41	111.07
1	6g	91	ILE	O-C-N	-5.92	116.23	122.57
1	6w	64	ALA	CA-C-N	5.92	128.14	120.44
1	6w	64	ALA	C-N-CA	5.92	128.14	120.44
1	6T	137	GLY	CA-C-N	5.92	128.14	120.44
1	6T	137	GLY	C-N-CA	5.92	128.14	120.44
1	6W	224	PRO	N-CA-CB	5.92	109.47	103.25
1	7d	139	ASN	O-C-N	-5.92	115.84	122.12
1	7f	74	ASN	CA-CB-CG	5.92	118.52	112.60
1	7H	45	GLU	CA-C-O	5.92	128.98	120.51
1	7S	73	ILE	N-CA-C	-5.92	104.96	110.53
1	8n	66	MET	N-CA-C	5.92	117.74	111.28
1	97	204	ALA	CA-C-N	5.92	128.22	120.28
1	97	204	ALA	C-N-CA	5.92	128.22	120.28
1	99	65	ALA	O-C-N	-5.92	114.71	122.59
1	9r	223	GLY	O-C-N	-5.92	117.09	122.42
1	9X	46	GLY	CA-C-O	5.92	127.51	119.28
1	Z	72	THR	N-CA-CB	5.92	118.60	110.01
1	10	30	LYS	O-C-N	-5.92	115.02	122.19
1	aZ	12	HIS	O-C-N	5.92	129.85	122.86
1	b1	55	MET	N-CA-C	5.92	117.74	111.28
1	bE	4	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	ca	188	THR	CB-CA-C	-5.92	100.35	110.24
1	cs	127	GLY	CA-C-O	-5.92	114.27	120.90
1	cC	160	PRO	CA-C-N	5.92	131.16	122.63
1	cC	160	PRO	C-N-CA	5.92	131.16	122.63
1	cJ	193	ASN	CA-C-N	5.92	129.53	120.82
1	cJ	193	ASN	C-N-CA	5.92	129.53	120.82
1	dD	133	TRP	CB-CG-CD2	-5.92	118.51	126.80
1	e1	174	ALA	CA-C-N	5.92	130.31	121.72
1	e1	174	ALA	C-N-CA	5.92	130.31	121.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e3	125	PRO	N-CA-CB	-5.92	98.88	102.79
1	e4	143	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	1p	50	GLN	CA-C-N	5.92	128.70	120.29
1	1p	50	GLN	C-N-CA	5.92	128.70	120.29
1	1q	103	ASP	O-C-N	5.92	128.90	122.15
1	eB	83	LEU	CA-C-O	5.92	126.66	119.31
1	fq	81	ASP	CB-CA-C	5.92	122.04	110.67
1	fq	159	GLU	CA-C-O	-5.92	114.18	119.75
1	fv	122	PRO	CA-C-N	5.92	125.90	120.21
1	fv	122	PRO	C-N-CA	5.92	125.90	120.21
1	fA	95	GLN	CA-C-O	5.92	128.02	121.56
1	fX	29	GLU	N-CA-CB	-5.92	103.16	110.98
1	e	37	ILE	CA-C-O	5.92	122.66	118.69
1	n	141	ILE	CA-C-N	5.92	128.57	120.46
1	n	141	ILE	C-N-CA	5.92	128.57	120.46
1	A	150	ILE	N-CA-C	5.92	119.34	111.17
1	ge	13	GLN	O-C-N	-5.92	116.48	123.41
1	gr	23	TRP	N-CA-C	5.92	117.41	111.07
1	gQ	175	GLU	O-C-N	-5.92	115.59	122.87
1	h1	63	GLN	O-C-N	-5.92	114.39	122.33
1	1H	186	THR	CA-C-N	5.92	128.22	120.28
1	1H	186	THR	C-N-CA	5.92	128.22	120.28
1	hi	50	GLN	CA-C-O	5.92	127.03	120.63
1	hk	23	TRP	O-C-N	-5.92	115.69	122.09
1	hT	226	HIS	N-CA-C	5.92	118.92	110.10
1	ie	76	GLU	CA-C-N	5.92	128.14	120.44
1	ie	76	GLU	C-N-CA	5.92	128.14	120.44
1	ih	49	PRO	O-C-N	-5.92	115.78	122.18
1	it	201	ILE	N-CA-C	5.92	116.66	110.62
1	iw	182	LYS	N-CA-C	5.92	117.73	111.28
1	iy	200	THR	O-C-N	-5.92	115.97	122.07
1	iF	178	SER	N-CA-C	5.92	117.94	110.24
1	iI	56	LEU	N-CA-C	5.92	117.73	111.28
1	1S	144	MET	O-C-N	-5.92	114.99	122.27
1	j9	111	LEU	CA-C-O	5.92	127.24	120.90
1	jg	87	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	jG	109	SER	CA-C-O	5.92	126.83	120.38
1	jK	213	GLU	CA-C-O	5.92	126.70	120.42
1	jL	46	GLY	CA-C-N	5.92	131.22	121.39
1	jL	46	GLY	C-N-CA	5.92	131.22	121.39
1	jO	162	ARG	O-C-N	-5.92	115.84	122.12
1	jV	75	GLU	N-CA-C	5.92	117.73	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jV	184	TRP	O-C-N	-5.92	115.97	122.07
1	jX	70	LYS	N-CA-C	5.92	117.73	111.28
1	kz	54	THR	CA-C-N	5.92	128.22	120.28
1	kz	54	THR	C-N-CA	5.92	128.22	120.28
1	24	162	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	kO	54	THR	N-CA-C	5.92	117.81	111.36
1	kO	57	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	29	165	VAL	CB-CA-C	-5.92	104.05	112.22
1	2r	182	LYS	CA-C-N	5.92	128.14	120.44
1	2r	182	LYS	C-N-CA	5.92	128.14	120.44
1	2X	146	SER	N-CA-C	-5.92	100.40	109.64
1	35	165	VAL	CA-C-O	5.92	127.13	120.85
1	3h	72	THR	N-CA-C	5.92	117.73	111.28
1	3m	229	ARG	CB-CA-C	5.92	120.01	109.65
1	3B	68	MET	CA-C-N	5.92	128.22	120.28
1	3B	68	MET	C-N-CA	5.92	128.22	120.28
1	3N	148	THR	CA-C-O	-5.92	114.93	121.33
1	3Q	165	VAL	CA-C-N	5.92	128.14	120.44
1	3Q	165	VAL	C-N-CA	5.92	128.14	120.44
1	3U	110	THR	N-CA-C	5.92	118.35	110.53
1	4a	161	PHE	CA-CB-CG	-5.92	107.88	113.80
1	4e	133	TRP	CB-CG-CD1	5.92	135.78	126.90
1	4i	12	HIS	N-CA-C	5.92	118.92	110.10
1	4s	93	PRO	CA-C-N	5.92	131.10	122.46
1	4s	93	PRO	C-N-CA	5.92	131.10	122.46
1	4v	208	ALA	N-CA-CB	-5.92	102.15	111.39
1	4R	169	TYR	CA-C-N	5.92	128.14	120.44
1	4R	169	TYR	C-N-CA	5.92	128.14	120.44
1	4W	185	MET	O-C-N	-5.92	115.84	122.12
1	4Y	68	MET	O-C-N	-5.92	115.84	122.12
1	58	163	ASP	N-CA-CB	5.92	118.60	110.01
1	5b	12	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	5d	22	ALA	CA-C-N	5.92	128.14	120.44
1	5d	22	ALA	C-N-CA	5.92	128.14	120.44
1	5A	126	VAL	CA-C-N	5.92	126.39	119.94
1	5A	126	VAL	C-N-CA	5.92	126.39	119.94
1	5L	13	GLN	OE1-CD-NE2	5.92	128.52	122.60
1	64	198	CYS	CA-C-N	5.92	128.22	120.28
1	64	198	CYS	C-N-CA	5.92	128.22	120.28
1	66	227	LYS	CA-C-N	5.92	130.88	120.87
1	66	227	LYS	C-N-CA	5.92	130.88	120.87
1	6b	148	THR	CB-CA-C	-5.92	101.02	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6e	20	LEU	CA-C-O	5.92	127.22	121.00
1	6M	77	ALA	CA-C-N	5.92	128.70	120.29
1	6M	77	ALA	C-N-CA	5.92	128.70	120.29
1	6P	83	LEU	CA-C-O	-5.92	113.16	119.97
1	6W	156	GLY	CA-C-N	5.92	125.30	118.85
1	6W	156	GLY	C-N-CA	5.92	125.30	118.85
1	74	202	LEU	CA-C-O	5.92	126.83	120.55
1	7H	125	PRO	O-C-N	-5.92	114.65	122.64
1	7O	159	GLU	CA-C-N	5.92	127.24	119.84
1	7O	159	GLU	C-N-CA	5.92	127.24	119.84
1	7U	126	VAL	N-CA-C	5.92	116.58	110.36
1	8u	75	GLU	CB-CG-CD	5.92	122.67	112.60
1	8y	222	GLY	CA-C-N	5.92	131.17	121.87
1	8y	222	GLY	C-N-CA	5.92	131.17	121.87
1	8U	67	GLN	CA-C-N	5.92	128.70	120.29
1	8U	67	GLN	C-N-CA	5.92	128.70	120.29
1	9i	40	PHE	N-CA-C	5.92	118.50	111.33
1	9l	176	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	9q	62	HIS	CB-CG-CD2	-5.92	123.50	131.20
1	9D	56	LEU	CA-C-N	5.92	131.50	121.14
1	9D	56	LEU	C-N-CA	5.92	131.50	121.14
1	9D	124	ILE	O-C-N	-5.92	115.61	121.12
1	9E	125	PRO	CA-C-N	5.92	130.33	120.62
1	9E	125	PRO	C-N-CA	5.92	130.33	120.62
1	9F	159	GLU	O-C-N	-5.92	115.14	121.42
1	9I	82	ARG	CA-C-O	5.92	127.04	120.82
1	9Z	82	ARG	NH1-CZ-NH2	-5.92	111.60	119.30
1	a5	214	MET	CA-C-O	5.92	126.78	119.79
1	ao	145	TYR	CA-C-O	5.92	126.83	120.55
1	12	82	ARG	O-C-N	-5.92	115.40	122.15
1	ay	37	ILE	O-C-N	-5.92	116.63	120.42
1	13	164	TYR	O-C-N	-5.92	115.84	122.12
1	aS	182	LYS	CA-C-N	5.92	128.14	120.44
1	aS	182	LYS	C-N-CA	5.92	128.14	120.44
1	br	200	THR	N-CA-CB	5.92	118.82	110.12
1	bC	11	VAL	O-C-N	-5.92	116.96	123.18
1	bK	200	THR	O-C-N	-5.92	115.84	122.12
1	bO	68	MET	N-CA-C	5.92	117.73	111.28
1	bS	79	GLU	N-CA-C	5.92	117.41	111.07
1	bV	163	ASP	N-CA-C	5.92	119.76	112.54
1	1c	140	LYS	O-C-N	-5.92	115.97	122.07
1	c6	67	GLN	N-CA-C	5.92	117.73	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	124	ILE	N-CA-C	5.92	114.48	107.73
1	cc	117	TRP	CA-C-N	5.92	129.31	120.31
1	cc	117	TRP	C-N-CA	5.92	129.31	120.31
1	cp	96	MET	N-CA-C	-5.92	99.30	108.42
1	1g	138	LEU	N-CA-C	5.92	118.69	111.82
1	cP	125	PRO	CA-C-O	-5.92	116.93	121.31
1	cV	63	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	cY	78	ALA	O-C-N	-5.92	115.40	122.15
1	1i	214	MET	CA-C-N	5.92	128.21	120.28
1	1i	214	MET	C-N-CA	5.92	128.21	120.28
1	da	123	PRO	N-CA-CB	5.92	109.47	103.25
1	db	168	PHE	CB-CA-C	5.92	120.92	110.85
1	dd	176	GLN	CA-C-N	5.92	129.28	120.87
1	dd	176	GLN	C-N-CA	5.92	129.28	120.87
1	de	189	LEU	CA-C-N	5.92	128.53	120.54
1	de	189	LEU	C-N-CA	5.92	128.53	120.54
1	dj	146	SER	CA-C-O	-5.92	114.94	119.32
1	dm	91	ILE	CA-C-N	5.92	128.62	120.39
1	dm	91	ILE	C-N-CA	5.92	128.62	120.39
1	dn	18	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	dO	136	LEU	CA-C-O	5.92	126.83	120.55
1	dW	198	CYS	CA-C-O	5.92	126.79	120.10
1	e9	100	ARG	O-C-N	-5.92	114.86	122.20
1	ea	122	PRO	N-CD-CG	5.92	110.91	103.80
1	eq	53	ASN	CA-CB-CG	-5.92	106.68	112.60
1	eD	223	GLY	N-CA-C	5.92	124.42	112.34
1	eH	39	MET	CA-C-N	5.92	128.14	120.44
1	eH	39	MET	C-N-CA	5.92	128.14	120.44
1	eI	228	ALA	CA-C-N	5.92	129.69	120.75
1	eI	228	ALA	C-N-CA	5.92	129.69	120.75
1	eK	27	VAL	CA-C-N	5.92	128.22	120.28
1	eK	27	VAL	C-N-CA	5.92	128.22	120.28
1	f0	124	ILE	N-CA-CB	5.92	118.51	111.23
1	fa	87	HIS	CB-CG-CD2	-5.92	123.50	131.20
1	fx	209	ALA	O-C-N	-5.92	115.61	122.95
1	fJ	125	PRO	N-CA-CB	-5.92	97.03	103.25
1	fV	211	LEU	CA-C-N	5.92	128.53	120.54
1	fV	211	LEU	C-N-CA	5.92	128.53	120.54
1	g6	145	TYR	N-CA-CB	-5.92	101.89	110.47
1	g	135	ILE	CA-C-N	5.92	128.22	120.28
1	g	135	ILE	C-N-CA	5.92	128.22	120.28
1	k	82	ARG	NH1-CZ-NH2	-5.92	111.60	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	79	GLU	N-CA-CB	-5.92	101.42	110.01
1	s	164	TYR	CB-CA-C	5.92	120.62	110.79
1	2	89	GLY	CA-C-N	5.92	127.24	119.84
1	2	89	GLY	C-N-CA	5.92	127.24	119.84
1	g9	144	MET	CG-SD-CE	-5.92	87.88	100.90
1	gy	177	ALA	CA-C-N	5.92	132.85	121.54
1	gy	177	ALA	C-N-CA	5.92	132.85	121.54
1	gB	97	ARG	NE-CZ-NH2	5.92	124.53	119.20
1	gP	24	VAL	N-CA-C	5.92	116.10	110.42
1	1H	146	SER	N-CA-C	5.92	116.41	109.60
1	hx	203	LYS	CA-C-N	5.92	128.21	120.28
1	hx	203	LYS	C-N-CA	5.92	128.21	120.28
1	hz	115	ILE	CA-C-N	5.92	126.51	119.94
1	hz	115	ILE	C-N-CA	5.92	126.51	119.94
1	iD	159	GLU	O-C-N	-5.92	115.67	121.18
1	iS	183	ASN	CA-CB-CG	-5.92	106.68	112.60
1	iU	1	PRO	CA-N-CD	-5.92	103.71	112.00
1	j3	20	LEU	N-CA-C	5.92	118.49	111.33
1	j5	24	VAL	CA-C-N	5.92	128.53	120.54
1	j5	24	VAL	C-N-CA	5.92	128.53	120.54
1	j9	101	GLY	CA-C-N	5.92	128.81	120.28
1	j9	101	GLY	C-N-CA	5.92	128.81	120.28
1	jY	90	PRO	N-CA-C	5.92	124.67	112.47
1	kV	12	HIS	ND1-CG-CD2	-5.92	100.18	106.10
1	ld	76	GLU	CA-C-N	5.92	128.70	120.29
1	ld	76	GLU	C-N-CA	5.92	128.70	120.29
1	lv	164	TYR	N-CA-CB	5.92	118.82	110.12
1	2x	29	GLU	N-CA-CB	-5.92	101.37	110.13
1	2X	72	THR	N-CA-C	5.92	117.73	111.28
1	3j	178	SER	O-C-N	-5.92	115.53	122.81
1	3I	172	LEU	N-CA-CB	-5.92	101.18	110.30
1	47	170	LYS	CA-C-N	5.92	128.21	120.28
1	47	170	LYS	C-N-CA	5.92	128.21	120.28
1	4y	165	VAL	CA-C-O	-5.92	115.11	121.27
1	5q	95	GLN	N-CA-C	5.92	118.81	110.23
1	5r	99	PRO	N-CA-C	5.92	124.67	112.47
1	5Q	57	ASN	N-CA-C	5.92	117.81	111.36
1	5S	117	TRP	CA-C-N	5.92	128.70	120.29
1	5S	117	TRP	C-N-CA	5.92	128.70	120.29
1	5T	190	LEU	O-C-N	-5.92	115.29	122.22
1	5Y	220	GLY	O-C-N	-5.92	118.09	122.71
1	6n	135	ILE	N-CA-C	5.92	116.66	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6u	179	GLN	O-C-N	-5.92	115.97	122.07
1	6I	229	ARG	N-CA-C	5.92	118.29	109.59
1	75	184	TRP	CA-C-N	5.92	128.21	120.28
1	75	184	TRP	C-N-CA	5.92	128.21	120.28
1	7E	68	MET	N-CA-C	5.92	117.73	111.28
1	8E	23	TRP	N-CA-C	5.92	118.49	111.33
1	8L	152	ASP	CA-CB-CG	-5.92	106.68	112.60
1	8V	121	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	95	62	HIS	CA-C-N	5.92	128.81	120.28
1	95	62	HIS	C-N-CA	5.92	128.81	120.28
1	9t	179	GLN	N-CA-CB	5.92	120.49	110.49
1	9y	191	VAL	CA-CB-CG2	-5.92	100.34	110.40
1	9F	91	ILE	O-C-N	5.92	128.99	122.66
1	9G	39	MET	CA-C-N	5.92	128.53	120.54
1	9G	39	MET	C-N-CA	5.92	128.53	120.54
1	9O	133	TRP	CA-C-N	5.92	128.02	120.56
1	9O	133	TRP	C-N-CA	5.92	128.02	120.56
1	9O	182	LYS	N-CA-CB	5.92	118.59	110.01
1	9U	98	GLU	O-C-N	-5.92	114.80	121.43
1	10	89	GLY	CA-C-N	5.92	125.94	119.90
1	10	89	GLY	C-N-CA	5.92	125.94	119.90
1	af	100	ARG	CD-NE-CZ	-5.92	116.11	124.40
1	ag	50	GLN	O-C-N	-5.92	115.84	122.12
1	13	138	LEU	O-C-N	-5.92	115.93	122.09
1	bA	16	SER	CB-CA-C	-5.92	104.31	110.17
1	bN	193	ASN	CA-CB-CG	-5.92	106.68	112.60
1	c1	3	VAL	O-C-N	-5.92	116.79	123.18
1	c7	84	HIS	CB-CG-ND1	5.92	131.58	122.70
1	cN	39	MET	CA-C-N	5.92	128.70	120.29
1	cN	39	MET	C-N-CA	5.92	128.70	120.29
1	d7	64	ALA	CA-C-N	5.92	128.14	120.44
1	d7	64	ALA	C-N-CA	5.92	128.14	120.44
1	de	169	TYR	N-CA-C	5.92	118.69	111.82
1	dy	226	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	dC	149	SER	N-CA-C	5.92	117.85	108.67
1	dM	118	MET	CA-C-O	5.92	126.44	119.28
1	1r	134	ILE	O-C-N	-5.92	115.89	121.87
1	ew	209	ALA	CA-C-O	5.92	127.83	121.55
1	ex	19	THR	N-CA-C	5.92	117.73	111.28
1	eM	74	ASN	N-CA-C	5.92	117.73	111.28
1	eP	168	PHE	O-C-N	-5.92	115.97	122.07
1	fh	73	ILE	N-CA-C	5.92	116.10	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fj	78	ALA	CA-C-O	5.92	126.69	120.42
1	fJ	27	VAL	O-C-N	-5.92	116.11	121.91
1	fJ	43	LEU	N-CA-C	5.92	118.69	111.82
1	h	27	VAL	CA-C-O	5.92	127.21	121.05
1	gd	67	GLN	CA-C-O	-5.92	113.16	119.97
1	gg	123	PRO	CA-C-N	-5.92	116.10	122.85
1	gg	123	PRO	C-N-CA	-5.92	116.10	122.85
1	1C	148	THR	CA-C-N	5.92	132.84	121.54
1	1C	148	THR	C-N-CA	5.92	132.84	121.54
1	gn	50	GLN	CA-C-O	5.92	126.82	120.55
1	gq	143	ARG	N-CA-C	5.92	118.21	111.11
1	gq	165	VAL	CA-CB-CG2	-5.92	100.34	110.40
1	1D	151	LEU	N-CA-CB	-5.92	101.42	110.12
1	gA	67	GLN	N-CA-C	5.92	118.69	111.82
1	gE	80	TRP	CA-C-N	5.92	128.13	120.44
1	gE	80	TRP	C-N-CA	5.92	128.13	120.44
1	gH	84	HIS	CA-C-N	5.92	126.11	119.90
1	gH	84	HIS	C-N-CA	5.92	126.11	119.90
1	gO	76	GLU	CA-C-N	5.92	128.21	120.28
1	gO	76	GLU	C-N-CA	5.92	128.21	120.28
1	hk	141	ILE	O-C-N	-5.92	116.13	121.87
1	ho	181	VAL	CA-C-O	5.92	127.10	120.95
1	hr	191	VAL	CA-C-N	5.92	128.53	120.54
1	hr	191	VAL	C-N-CA	5.92	128.53	120.54
1	hS	2	ILE	CA-CB-CG1	5.92	120.46	110.40
1	i0	57	ASN	N-CA-C	5.92	120.34	113.18
1	i5	120	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	in	28	GLU	N-CA-C	5.92	118.52	111.71
1	1P	3	VAL	CA-C-N	5.92	130.76	122.36
1	1P	3	VAL	C-N-CA	5.92	130.76	122.36
1	io	213	GLU	CB-CG-CD	5.92	122.66	112.60
1	iH	188	THR	N-CA-C	5.92	117.42	110.97
1	iK	48	THR	CA-CB-OG1	5.92	118.48	109.60
1	iO	143	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	iP	141	ILE	O-C-N	-5.92	115.11	121.80
1	j1	214	MET	CA-C-N	5.92	129.31	120.31
1	j1	214	MET	C-N-CA	5.92	129.31	120.31
1	j3	42	ALA	CA-C-N	5.92	128.49	120.38
1	j3	42	ALA	C-N-CA	5.92	128.49	120.38
1	j7	28	GLU	CB-CA-C	5.92	120.28	110.81
1	jn	12	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	21	40	PHE	CA-C-N	5.92	128.13	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	40	PHE	C-N-CA	5.92	128.13	120.44
1	ky	188	THR	OG1-CB-CG2	-5.92	97.46	109.30
1	kD	6	LEU	CA-C-O	-5.92	114.67	121.54
1	27	170	LYS	O-C-N	-5.92	114.99	122.27
1	lj	24	VAL	N-CA-C	5.92	116.66	110.62
1	ls	36	VAL	CA-C-O	-5.92	114.80	120.95
1	ly	162	ARG	O-C-N	-5.92	115.30	122.22
1	2g	62	HIS	ND1-CG-CD2	5.92	112.02	106.10
1	2l	134	ILE	N-CA-CB	5.92	117.47	110.55
1	2s	44	SER	O-C-N	-5.92	115.24	122.34
1	2t	109	SER	N-CA-CB	5.92	118.90	110.44
1	2B	5	ASN	CA-CB-CG	5.92	118.52	112.60
1	2K	162	ARG	O-C-N	5.92	128.39	122.12
1	2L	62	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	2O	155	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	2O	190	LEU	CA-C-N	5.92	128.14	120.56
1	2O	190	LEU	C-N-CA	5.92	128.14	120.56
1	2S	198	CYS	N-CA-CB	5.92	120.21	110.39
1	34	212	GLU	CA-C-O	5.92	126.82	120.55
1	3f	135	ILE	CA-C-N	5.92	129.02	120.38
1	3f	135	ILE	C-N-CA	5.92	129.02	120.38
1	3k	139	ASN	OD1-CG-ND2	5.92	128.52	122.60
1	3z	118	MET	CA-C-O	-5.92	114.61	120.82
1	3M	212	GLU	N-CA-C	5.92	118.49	111.33
1	42	47	ALA	N-CA-C	5.92	118.81	110.23
1	48	183	ASN	CB-CG-ND2	-5.92	107.52	116.40
1	4A	120	HIS	CG-CD2-NE2	5.92	113.12	107.20
1	4B	185	MET	CG-SD-CE	-5.92	87.88	100.90
1	4I	99	PRO	CB-CA-C	5.92	116.84	111.87
1	4U	200	THR	N-CA-CB	5.92	118.94	110.06
1	4Z	35	GLU	O-C-N	-5.92	114.70	122.39
1	4Z	80	TRP	CB-CG-CD2	5.92	135.09	126.80
1	51	87	HIS	CA-CB-CG	5.92	119.72	113.80
1	5n	96	MET	CA-C-O	5.92	126.87	120.95
1	5n	132	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	5o	111	LEU	N-CA-CB	-5.92	100.79	110.14
1	5A	55	MET	CA-C-N	5.92	128.21	120.28
1	5A	55	MET	C-N-CA	5.92	128.21	120.28
1	5I	119	THR	CA-C-N	5.92	129.11	120.71
1	5I	119	THR	C-N-CA	5.92	129.11	120.71
1	5J	51	ASP	CA-CB-CG	-5.92	106.68	112.60
1	60	25	LYS	CA-C-N	5.92	128.02	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	60	25	LYS	C-N-CA	5.92	128.02	120.56
1	6g	65	ALA	O-C-N	-5.92	115.40	122.15
1	6s	57	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	6v	35	GLU	CB-CG-CD	5.92	122.66	112.60
1	6D	168	PHE	O-C-N	-5.92	115.75	122.08
1	6W	16	SER	CB-CA-C	5.92	117.96	109.26
1	78	197	ASP	CA-C-O	5.92	126.78	119.97
1	79	228	ALA	O-C-N	-5.92	116.31	122.94
1	7c	59	VAL	CA-C-N	5.92	126.51	119.94
1	7c	59	VAL	C-N-CA	5.92	126.51	119.94
1	7d	127	GLY	O-C-N	-5.92	116.27	122.13
1	7h	200	THR	CA-C-N	5.92	128.02	120.56
1	7h	200	THR	C-N-CA	5.92	128.02	120.56
1	7u	92	GLU	CA-C-N	5.92	125.86	119.76
1	7u	92	GLU	C-N-CA	5.92	125.86	119.76
1	7A	208	ALA	CA-C-N	5.92	129.25	120.90
1	7A	208	ALA	C-N-CA	5.92	129.25	120.90
1	7B	191	VAL	N-CA-C	5.92	116.56	110.82
1	7B	201	ILE	CB-CA-C	-5.92	104.05	112.22
1	7C	99	PRO	N-CA-CB	5.92	109.46	103.25
1	7G	181	VAL	N-CA-C	5.92	116.66	110.62
1	7Q	54	THR	CA-C-O	5.92	127.03	120.82
1	7T	92	GLU	CA-C-N	5.92	127.24	119.84
1	7T	92	GLU	C-N-CA	5.92	127.24	119.84
1	85	60	GLY	O-C-N	-5.92	115.01	122.70
1	8r	94	GLY	CA-C-N	5.92	130.29	122.42
1	8r	94	GLY	C-N-CA	5.92	130.29	122.42
1	8w	167	ARG	O-C-N	-5.92	115.97	122.07
1	8y	71	GLU	N-CA-CB	5.92	118.82	110.12
1	93	69	LEU	N-CA-C	5.92	117.40	111.07
1	9i	140	LYS	CA-C-N	5.92	128.02	120.56
1	9i	140	LYS	C-N-CA	5.92	128.02	120.56
1	9n	212	GLU	N-CA-C	5.92	118.21	111.11
1	ab	56	LEU	CA-C-O	-5.92	114.61	120.82
1	ae	91	ILE	CA-C-N	5.92	128.90	120.49
1	ae	91	ILE	C-N-CA	5.92	128.90	120.49
1	as	174	ALA	CA-C-O	5.92	126.83	120.55
1	az	201	ILE	O-C-N	-5.92	115.73	121.83
1	aG	195	ASN	N-CA-CB	5.92	119.37	110.02
1	b3	154	ARG	N-CA-C	5.92	118.92	110.10
1	b7	165	VAL	CA-C-N	5.92	128.49	120.44
1	b7	165	VAL	C-N-CA	5.92	128.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16	142	VAL	CA-C-N	5.92	128.53	120.54
1	16	142	VAL	C-N-CA	5.92	128.53	120.54
1	bc	36	VAL	CA-C-N	5.92	125.06	120.33
1	bc	36	VAL	C-N-CA	5.92	125.06	120.33
1	bi	13	GLN	N-CA-C	-5.92	98.76	108.41
1	bn	11	VAL	N-CA-C	5.92	116.38	107.80
1	bp	45	GLU	N-CA-C	5.92	118.24	111.02
1	18	69	LEU	CB-CA-C	5.92	120.17	110.88
1	bC	51	ASP	O-C-N	-5.92	115.97	122.07
1	bY	222	GLY	CA-C-N	5.92	131.16	121.87
1	bY	222	GLY	C-N-CA	5.92	131.16	121.87
1	c9	226	HIS	N-CA-CB	-5.92	101.21	110.98
1	cc	50	GLN	CA-C-N	5.92	128.13	120.44
1	cc	50	GLN	C-N-CA	5.92	128.13	120.44
1	cr	42	ALA	N-CA-C	5.92	117.73	111.28
1	cH	223	GLY	N-CA-C	5.92	124.42	112.34
1	cR	50	GLN	CA-C-N	5.92	128.13	120.44
1	cR	50	GLN	C-N-CA	5.92	128.13	120.44
1	d0	67	GLN	CA-C-N	5.92	130.70	120.58
1	d0	67	GLN	C-N-CA	5.92	130.70	120.58
1	1k	185	MET	CA-C-O	-5.92	114.15	120.42
1	dC	51	ASP	CA-CB-CG	-5.92	106.68	112.60
1	1m	98	GLU	N-CA-CB	5.92	120.90	110.37
1	dN	126	VAL	N-CA-C	5.92	118.45	111.05
1	dQ	40	PHE	N-CA-C	5.92	117.40	111.07
1	dZ	162	ARG	NE-CZ-NH2	-5.92	113.87	119.20
1	ee	191	VAL	CA-CB-CG2	5.92	120.46	110.40
1	eG	122	PRO	N-CD-CG	5.92	110.90	103.80
1	eS	120	HIS	CB-CG-CD2	5.92	138.90	131.20
1	eU	207	PRO	CA-C-O	-5.92	114.87	121.32
1	fj	201	ILE	CA-C-N	5.92	128.80	120.28
1	fj	201	ILE	C-N-CA	5.92	128.80	120.28
1	fn	168	PHE	N-CA-C	5.92	117.40	111.07
1	fw	120	HIS	CG-CD2-NE2	5.92	113.12	107.20
1	fU	67	GLN	CA-C-N	5.92	128.21	120.28
1	fU	67	GLN	C-N-CA	5.92	128.21	120.28
1	fU	219	GLN	OE1-CD-NE2	5.92	128.52	122.60
1	fV	12	HIS	CB-CG-ND1	5.92	131.58	122.70
1	g0	54	THR	O-C-N	-5.92	114.99	122.27
1	g4	167	ARG	CA-C-O	5.92	126.82	120.55
1	a	214	MET	CA-C-N	5.92	128.13	120.44
1	a	214	MET	C-N-CA	5.92	128.13	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	84	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	v	76	GLU	N-CA-C	5.92	117.40	111.07
1	G	118	MET	O-C-N	5.92	128.39	122.12
1	W	110	THR	O-C-N	-5.92	116.04	122.79
1	W	193	ASN	N-CA-CB	5.92	119.20	110.56
1	5	32	PHE	N-CA-C	-5.92	106.30	112.93
1	8	46	GLY	CA-C-O	5.92	126.35	119.13
1	9	21	ASN	CA-CB-CG	5.92	118.52	112.60
1	gd	169	TYR	CB-CG-CD2	-5.92	111.92	120.80
1	gl	145	TYR	CB-CG-CD2	-5.92	111.93	120.80
1	gm	189	LEU	CA-C-O	-5.92	113.41	120.10
1	gm	213	GLU	CB-CG-CD	5.92	122.66	112.60
1	gG	202	LEU	CA-C-N	5.92	128.21	120.28
1	gG	202	LEU	C-N-CA	5.92	128.21	120.28
1	gL	202	LEU	N-CA-C	-5.92	106.06	113.28
1	gQ	42	ALA	N-CA-C	5.92	117.73	111.28
1	h0	70	LYS	N-CA-C	5.92	117.40	111.07
1	h8	74	ASN	CA-CB-CG	-5.92	106.68	112.60
1	hh	95	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	hh	113	GLU	CA-C-N	5.92	128.49	120.44
1	hh	113	GLU	C-N-CA	5.92	128.49	120.44
1	hw	210	THR	CA-CB-OG1	5.92	118.47	109.60
1	hK	73	ILE	O-C-N	-5.92	116.02	121.94
1	hO	182	LYS	N-CA-C	5.92	118.68	111.82
1	1M	27	VAL	O-C-N	-5.92	116.13	121.87
1	1M	60	GLY	CA-C-N	5.92	133.00	121.41
1	1M	60	GLY	C-N-CA	5.92	133.00	121.41
1	i4	130	TYR	N-CA-CB	-5.92	101.42	110.12
1	1O	15	ILE	N-CA-C	5.92	116.70	108.89
1	iS	28	GLU	CA-C-O	5.92	126.82	120.55
1	j7	144	MET	CG-SD-CE	-5.92	87.88	100.90
1	jb	155	GLN	CB-CG-CD	-5.92	102.54	112.60
1	jm	18	ARG	CA-C-N	5.92	128.13	120.44
1	jm	18	ARG	C-N-CA	5.92	128.13	120.44
1	jt	45	GLU	CA-C-O	5.92	127.19	120.80
1	jv	21	ASN	N-CA-C	5.92	117.81	111.36
1	jx	87	HIS	CA-C-N	-5.92	110.83	120.71
1	jx	87	HIS	C-N-CA	-5.92	110.83	120.71
1	jy	226	HIS	CB-CG-CD2	-5.92	123.51	131.20
1	jB	100	ARG	NE-CZ-NH1	-5.92	115.58	121.50
1	jH	179	GLN	N-CA-CB	5.92	118.94	110.06
1	jK	97	ARG	NE-CZ-NH2	-5.92	113.88	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jN	162	ARG	NE-CZ-NH2	-5.92	113.88	119.20
1	jO	48	THR	N-CA-CB	5.92	118.03	110.04
1	jU	224	PRO	N-CD-CG	5.92	112.08	103.20
1	k4	101	GLY	O-C-N	-5.92	115.83	122.28
1	kw	97	ARG	NE-CZ-NH2	5.92	124.53	119.20
1	kz	37	ILE	CA-C-N	5.92	125.30	118.85
1	kz	37	ILE	C-N-CA	5.92	125.30	118.85
1	kM	112	GLN	O-C-N	-5.92	115.85	122.12
1	kT	140	LYS	CA-C-N	5.92	128.01	120.56
1	kT	140	LYS	C-N-CA	5.92	128.01	120.56
1	kU	16	SER	O-C-N	-5.92	115.36	121.28
1	kV	59	VAL	N-CA-C	5.92	117.36	109.37
1	kW	123	PRO	N-CA-CB	-5.92	97.04	103.25
1	l2	16	SER	CA-C-O	-5.92	112.94	120.04
1	26	170	LYS	N-CA-C	5.92	117.73	111.28
1	lf	96	MET	CA-C-N	5.92	129.27	120.87
1	lf	96	MET	C-N-CA	5.92	129.27	120.87
1	lg	32	PHE	O-C-N	-5.92	115.42	122.46
1	lj	90	PRO	CA-C-N	5.92	130.53	123.19
1	lj	90	PRO	C-N-CA	5.92	130.53	123.19
1	ln	226	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	ly	171	THR	N-CA-CB	5.92	118.65	110.07
1	lB	192	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	2A	221	VAL	CA-CB-CG2	-5.92	100.34	110.40
1	2O	165	VAL	N-CA-C	5.92	116.70	110.72
1	2V	180	GLU	N-CA-C	5.92	118.49	111.33
1	3l	160	PRO	N-CA-CB	5.92	108.83	103.33
1	3q	41	SER	O-C-N	5.92	128.16	122.07
1	3x	95	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	3A	134	ILE	N-CA-C	5.92	116.10	110.42
1	3F	115	ILE	CA-C-N	5.92	126.55	119.98
1	3F	115	ILE	C-N-CA	5.92	126.55	119.98
1	3G	59	VAL	CA-CB-CG1	5.92	120.46	110.40
1	40	97	ARG	CA-C-N	5.92	128.61	120.39
1	40	97	ARG	C-N-CA	5.92	128.61	120.39
1	49	163	ASP	CB-CA-C	5.92	120.91	110.85
1	4o	166	ASP	CB-CA-C	-5.92	101.59	110.88
1	4q	163	ASP	CA-C-O	-5.92	114.22	120.55
1	4L	160	PRO	N-CA-C	5.92	120.91	111.26
1	5g	136	LEU	CA-C-N	5.92	126.55	119.98
1	5g	136	LEU	C-N-CA	5.92	126.55	119.98
1	5n	170	LYS	N-CA-C	5.92	117.81	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	12	HIS	ND1-CE1-NE2	5.92	114.32	108.40
1	5C	12	HIS	CE1-NE2-CD2	-5.92	103.08	109.00
1	5N	37	ILE	N-CA-CB	5.92	115.06	110.45
1	60	55	MET	N-CA-C	5.92	117.81	111.36
1	6i	5	ASN	CB-CA-C	5.92	122.19	110.42
1	6w	168	PHE	CA-CB-CG	5.92	119.72	113.80
1	6F	36	VAL	N-CA-C	-5.92	104.74	110.42
1	6F	129	ILE	N-CA-CB	5.92	117.07	110.62
1	7g	136	LEU	CB-CA-C	-5.92	100.97	110.79
1	7k	26	VAL	N-CA-CB	5.92	117.47	110.55
1	7l	16	SER	CA-C-N	5.92	126.06	119.32
1	7l	16	SER	C-N-CA	5.92	126.06	119.32
1	7Y	167	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	84	18	ARG	CG-CD-NE	-5.92	98.98	112.00
1	8d	120	HIS	CB-CG-CD2	-5.92	123.51	131.20
1	8d	199	LYS	N-CA-C	5.92	118.49	111.33
1	8e	139	ASN	N-CA-C	5.92	118.21	111.11
1	8p	40	PHE	CA-C-N	5.92	128.53	120.54
1	8p	40	PHE	C-N-CA	5.92	128.53	120.54
1	8p	211	LEU	O-C-N	-5.92	115.85	122.12
1	8r	23	TRP	N-CA-C	5.92	118.21	111.11
1	8K	161	PHE	N-CA-CB	-5.92	101.40	110.16
1	9h	195	ASN	N-CA-C	5.92	116.85	109.57
1	9m	4	GLN	CB-CG-CD	-5.92	102.54	112.60
1	9s	82	ARG	CA-C-N	5.92	128.69	120.29
1	9s	82	ARG	C-N-CA	5.92	128.69	120.29
1	9F	97	ARG	NE-CZ-NH2	5.92	124.53	119.20
1	9L	86	VAL	N-CA-C	5.92	116.70	108.89
1	9O	139	ASN	CA-C-N	5.92	128.13	120.44
1	9O	139	ASN	C-N-CA	5.92	128.13	120.44
1	9V	94	GLY	O-C-N	5.92	129.25	122.33
1	ak	19	THR	CA-C-O	5.92	126.65	119.31
1	ay	145	TYR	N-CA-C	-5.92	105.88	112.57
1	aD	146	SER	CA-C-O	-5.92	114.02	120.17
1	aE	116	GLY	N-CA-C	5.92	119.36	112.50
1	aV	115	ILE	CA-C-N	5.92	133.00	121.41
1	aV	115	ILE	C-N-CA	5.92	133.00	121.41
1	aX	195	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	aX	215	MET	CB-CA-C	5.92	119.94	109.65
1	b2	148	THR	N-CA-CB	5.92	118.69	110.17
1	1a	82	ARG	CA-C-N	5.92	128.21	120.28
1	1a	82	ARG	C-N-CA	5.92	128.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	30	LYS	CA-C-O	5.92	126.10	119.41
1	bX	4	GLN	CA-C-N	5.92	132.84	121.54
1	bX	4	GLN	C-N-CA	5.92	132.84	121.54
1	bY	4	GLN	OE1-CD-NE2	-5.92	116.68	122.60
1	1c	174	ALA	N-CA-C	5.92	117.73	111.28
1	ce	160	PRO	N-CA-CB	-5.92	97.04	103.25
1	ce	176	GLN	CA-C-N	5.92	129.68	120.75
1	ce	176	GLN	C-N-CA	5.92	129.68	120.75
1	cn	216	THR	CA-CB-CG2	5.92	120.56	110.50
1	cG	13	GLN	N-CA-C	5.92	118.17	109.24
1	cL	5	ASN	OD1-CG-ND2	-5.92	116.68	122.60
1	cY	190	LEU	N-CA-C	5.92	118.21	111.11
1	cZ	165	VAL	CA-C-O	5.92	126.86	120.47
1	1l	21	ASN	O-C-N	-5.92	115.85	122.12
1	dA	203	LYS	N-CA-C	5.92	117.73	111.28
1	dI	157	PRO	N-CA-C	5.92	121.64	113.65
1	dU	183	ASN	CA-CB-CG	-5.92	106.68	112.60
1	e0	196	PRO	N-CA-C	5.92	122.39	113.81
1	1o	219	GLN	N-CA-C	5.92	118.68	111.82
1	ej	10	MET	CA-C-N	5.92	130.89	123.14
1	ej	10	MET	C-N-CA	5.92	130.89	123.14
1	el	3	VAL	O-C-N	-5.92	116.37	122.82
1	el	203	LYS	CA-C-N	5.92	128.13	120.44
1	el	203	LYS	C-N-CA	5.92	128.13	120.44
1	er	197	ASP	O-C-N	5.92	128.16	122.07
1	eH	51	ASP	CB-CA-C	-5.92	100.97	110.79
1	f1	63	GLN	N-CA-C	5.92	118.21	111.11
1	fy	124	ILE	N-CA-CB	5.92	118.29	111.31
1	fz	97	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	fM	124	ILE	CA-C-N	-5.92	112.44	119.84
1	fM	124	ILE	C-N-CA	-5.92	112.44	119.84
1	fT	162	ARG	N-CA-C	5.92	117.73	111.28
1	g5	68	MET	CA-C-N	5.92	128.13	120.44
1	g5	68	MET	C-N-CA	5.92	128.13	120.44
1	d	2	ILE	O-C-N	-5.92	115.97	122.83
1	g	77	ALA	N-CA-C	5.92	117.40	111.07
1	h	1	PRO	CA-N-CD	-5.92	103.72	112.00
1	u	187	GLU	N-CA-C	5.92	117.73	111.28
1	M	26	VAL	CB-CA-C	5.92	120.13	112.14
1	7	188	THR	CA-CB-OG1	5.92	118.48	109.60
1	7	206	GLY	CA-C-N	5.92	125.94	119.90
1	7	206	GLY	C-N-CA	5.92	125.94	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gr	130	TYR	N-CA-C	5.92	117.73	111.28
1	gY	175	GLU	O-C-N	-5.92	115.53	122.81
1	h6	229	ARG	NE-CZ-NH1	5.92	127.42	121.50
1	ha	173	ARG	NH1-CZ-NH2	-5.92	111.61	119.30
1	hh	135	ILE	N-CA-C	5.92	116.65	110.62
1	hM	116	GLY	O-C-N	-5.92	115.01	122.70
1	hN	91	ILE	O-C-N	-5.92	115.95	122.69
1	hP	24	VAL	CA-C-N	5.92	128.13	120.44
1	hP	24	VAL	C-N-CA	5.92	128.13	120.44
1	i5	182	LYS	CA-C-N	5.92	128.13	120.44
1	i5	182	LYS	C-N-CA	5.92	128.13	120.44
1	ie	189	LEU	CA-C-N	5.92	128.69	120.29
1	ie	189	LEU	C-N-CA	5.92	128.69	120.29
1	it	83	LEU	CA-C-O	-5.92	113.67	120.24
1	iW	224	PRO	N-CA-C	5.92	120.52	111.11
1	jM	136	LEU	CA-C-O	5.92	126.82	120.55
1	jR	82	ARG	NE-CZ-NH2	5.92	124.52	119.20
1	kW	22	ALA	CA-C-O	5.92	127.03	120.82
1	kX	61	GLY	CA-C-N	5.92	130.53	122.07
1	kX	61	GLY	C-N-CA	5.92	130.53	122.07
1	kZ	92	GLU	CA-C-O	-5.92	114.02	120.17
1	l4	162	ARG	NE-CZ-NH1	-5.92	115.58	121.50
1	lc	167	ARG	NE-CZ-NH2	-5.92	113.88	119.20
1	lp	203	LYS	N-CA-C	5.92	117.73	111.28
1	28	33	SER	CA-C-O	-5.92	114.25	120.70
1	ls	47	ALA	CA-C-O	5.92	127.72	120.92
1	2l	225	GLY	O-C-N	-5.92	116.61	122.41
1	2A	5	ASN	OD1-CG-ND2	-5.92	116.69	122.60
1	2L	64	ALA	O-C-N	-5.92	115.98	122.07
1	2S	88	ALA	O-C-N	-5.92	114.41	122.81
1	3p	7	GLN	OE1-CD-NE2	5.92	128.51	122.60
1	3s	10	MET	O-C-N	-5.92	114.72	122.59
1	4A	26	VAL	N-CA-C	5.92	116.69	110.72
1	4W	67	GLN	CG-CD-NE2	5.92	125.27	116.40
1	4Y	190	LEU	O-C-N	-5.92	115.85	122.12
1	5O	195	ASN	OD1-CG-ND2	-5.92	116.69	122.60
1	67	183	ASN	N-CA-C	5.92	117.73	111.28
1	7k	114	GLN	N-CA-C	5.92	117.53	111.14
1	7p	58	THR	N-CA-CB	5.92	119.41	110.30
1	7q	58	THR	CA-C-O	5.92	126.77	119.97
1	7x	86	VAL	O-C-N	-5.92	115.18	122.57
1	85	74	ASN	CA-C-N	5.92	128.49	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	85	74	ASN	C-N-CA	5.92	128.49	120.44
1	99	47	ALA	N-CA-CB	-5.92	101.30	110.29
1	9g	82	ARG	CD-NE-CZ	-5.92	116.12	124.40
1	9D	83	LEU	O-C-N	-5.92	115.98	122.07
1	9I	212	GLU	O-C-N	-5.92	115.94	122.09
1	aC	48	THR	CA-C-O	-5.92	112.75	121.27
1	aE	190	LEU	O-C-N	5.92	128.16	122.07
1	aQ	177	ALA	CA-C-N	5.92	129.68	120.75
1	aQ	177	ALA	C-N-CA	5.92	129.68	120.75
1	b1	195	ASN	N-CA-C	5.92	122.88	109.81
1	b4	148	THR	O-C-N	-5.92	115.50	123.19
1	bw	5	ASN	OD1-CG-ND2	-5.92	116.69	122.60
1	bz	197	ASP	N-CA-C	5.92	118.49	111.33
1	bI	154	ARG	NE-CZ-NH2	5.92	124.52	119.20
1	bS	204	ALA	CA-C-N	5.92	132.40	121.52
1	bS	204	ALA	C-N-CA	5.92	132.40	121.52
1	cf	86	VAL	CA-C-N	5.92	131.48	122.37
1	cf	86	VAL	C-N-CA	5.92	131.48	122.37
1	1g	53	ASN	N-CA-C	5.92	118.49	111.33
1	cQ	211	LEU	CA-C-O	5.92	126.82	120.55
1	d2	139	ASN	OD1-CG-ND2	5.92	128.51	122.60
1	dg	58	THR	CA-CB-OG1	5.92	118.47	109.60
1	1k	42	ALA	N-CA-C	5.92	118.68	111.82
1	e3	31	ALA	N-CA-C	5.92	118.96	109.02
1	1s	187	GLU	CA-C-N	5.92	128.46	120.65
1	1s	187	GLU	C-N-CA	5.92	128.46	120.65
1	1u	74	ASN	CA-CB-CG	-5.92	106.69	112.60
1	f8	113	GLU	CA-C-O	5.92	126.52	119.60
1	fW	101	GLY	CA-C-N	5.92	128.21	120.28
1	fW	101	GLY	C-N-CA	5.92	128.21	120.28
1	1B	155	GLN	CA-C-O	5.92	127.19	120.80
1	m	174	ALA	N-CA-C	5.92	117.73	111.28
1	O	87	HIS	N-CA-CB	-5.92	101.30	110.29
1	gy	90	PRO	N-CA-C	5.91	120.36	111.14
1	gA	68	MET	CA-C-N	5.91	128.13	120.44
1	gA	68	MET	C-N-CA	5.91	128.13	120.44
1	1E	48	THR	CA-C-N	5.91	126.33	119.47
1	1E	48	THR	C-N-CA	5.91	126.33	119.47
1	gX	50	GLN	CA-C-N	5.91	128.69	120.29
1	gX	50	GLN	C-N-CA	5.91	128.69	120.29
1	h4	74	ASN	CA-C-N	5.91	128.13	120.44
1	h4	74	ASN	C-N-CA	5.91	128.13	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	50	GLN	CA-C-N	5.91	128.21	120.28
1	h6	50	GLN	C-N-CA	5.91	128.21	120.28
1	h8	144	MET	CA-C-O	5.91	126.77	119.79
1	hn	32	PHE	CA-CB-CG	-5.91	107.89	113.80
1	hq	14	ALA	CA-C-N	5.91	129.38	120.75
1	hq	14	ALA	C-N-CA	5.91	129.38	120.75
1	hN	134	ILE	CA-C-O	-5.91	114.48	121.05
1	i0	148	THR	O-C-N	-5.91	116.17	123.44
1	i3	153	ILE	N-CA-CB	5.91	118.13	111.21
1	id	3	VAL	N-CA-CB	5.91	118.80	111.41
1	ig	110	THR	O-C-N	-5.91	116.35	123.03
1	io	131	LYS	N-CA-C	5.91	118.48	111.33
1	iu	187	GLU	N-CA-C	5.91	117.53	111.14
1	1Q	67	GLN	CA-C-O	5.91	126.65	119.38
1	iG	35	GLU	CA-CB-CG	5.91	125.93	114.10
1	iK	84	HIS	CG-CD2-NE2	5.91	113.11	107.20
1	iR	143	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
1	iU	63	GLN	N-CA-C	5.91	119.68	112.23
1	j3	66	MET	N-CA-C	5.91	119.68	112.23
1	j6	222	GLY	CA-C-O	-5.91	118.19	122.45
1	jx	126	VAL	CA-C-N	5.91	127.73	120.22
1	jx	126	VAL	C-N-CA	5.91	127.73	120.22
1	jB	133	TRP	CB-CG-CD2	-5.91	118.52	126.80
1	1Y	51	ASP	CA-C-O	5.91	126.82	120.55
1	jT	167	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	jW	82	ARG	CA-C-N	5.91	133.06	122.06
1	jW	82	ARG	C-N-CA	5.91	133.06	122.06
1	k6	186	THR	N-CA-CB	5.91	118.58	110.01
1	kk	111	LEU	N-CA-CB	5.91	118.81	110.12
1	22	163	ASP	CA-C-N	5.91	128.21	120.28
1	22	163	ASP	C-N-CA	5.91	128.21	120.28
1	kA	154	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	kJ	64	ALA	CA-C-N	5.91	128.69	120.29
1	kJ	64	ALA	C-N-CA	5.91	128.69	120.29
1	25	136	LEU	CA-C-N	5.91	126.51	120.00
1	25	136	LEU	C-N-CA	5.91	126.51	120.00
1	ll	57	ASN	CA-CB-CG	5.91	118.51	112.60
1	lJ	208	ALA	CA-C-O	-5.91	116.17	121.67
1	2l	36	VAL	CA-C-O	5.91	126.86	120.47
1	2t	215	MET	N-CA-CB	5.91	119.51	110.70
1	2M	92	GLU	N-CA-C	5.91	117.15	109.64
1	33	96	MET	CG-SD-CE	-5.91	87.89	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	67	GLN	O-C-N	-5.91	115.85	122.12
1	38	131	LYS	CA-C-O	5.91	127.02	120.63
1	38	170	LYS	CA-C-O	5.91	126.82	120.55
1	3n	72	THR	N-CA-C	-5.91	104.47	111.03
1	3y	167	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	3P	74	ASN	CA-C-N	5.91	128.13	120.44
1	3P	74	ASN	C-N-CA	5.91	128.13	120.44
1	4w	29	GLU	CA-C-N	5.91	129.30	120.31
1	4w	29	GLU	C-N-CA	5.91	129.30	120.31
1	4E	189	LEU	N-CA-C	5.91	117.73	111.28
1	4T	208	ALA	N-CA-CB	-5.91	101.85	110.84
1	4Z	153	ILE	N-CA-CB	5.91	118.58	111.31
1	4Z	164	TYR	CA-C-O	-5.91	114.61	120.82
1	51	76	GLU	CA-C-O	-5.91	114.28	120.55
1	56	14	ALA	CA-C-N	5.91	128.65	120.49
1	56	14	ALA	C-N-CA	5.91	128.65	120.49
1	5L	17	PRO	CB-CA-C	5.91	122.38	112.62
1	5O	9	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	5Q	213	GLU	O-C-N	-5.91	115.41	122.15
1	6c	30	LYS	O-C-N	-5.91	116.86	123.48
1	6B	207	PRO	N-CA-CB	-5.91	97.28	103.19
1	6Y	75	GLU	O-C-N	-5.91	115.85	122.12
1	7h	158	LYS	CA-C-N	5.91	128.69	120.65
1	7h	158	LYS	C-N-CA	5.91	128.69	120.65
1	7j	177	ALA	CA-C-N	5.91	130.86	120.87
1	7j	177	ALA	C-N-CA	5.91	130.86	120.87
1	7o	176	GLN	CA-C-O	5.91	127.71	120.55
1	7q	82	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	7r	102	SER	CA-C-O	5.91	126.77	119.79
1	7t	216	THR	O-C-N	-5.91	115.98	122.07
1	88	107	THR	N-CA-C	5.91	117.72	111.28
1	8e	5	ASN	CA-C-N	5.91	128.13	120.44
1	8e	5	ASN	C-N-CA	5.91	128.13	120.44
1	8k	29	GLU	CB-CG-CD	5.91	122.65	112.60
1	8t	73	ILE	O-C-N	5.91	128.05	121.90
1	8X	203	LYS	N-CA-CB	-5.91	100.76	110.40
1	8Y	166	ASP	N-CA-C	5.91	117.40	111.07
1	95	176	GLN	O-C-N	-5.91	114.53	122.22
1	9q	165	VAL	CB-CA-C	-5.91	104.40	111.97
1	9s	162	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	9K	165	VAL	N-CA-C	5.91	116.65	110.62
1	9P	145	TYR	CA-CB-CG	-5.91	103.25	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Q	155	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	a6	95	GLN	CA-C-N	5.91	130.22	120.94
1	a6	95	GLN	C-N-CA	5.91	130.22	120.94
1	11	43	LEU	N-CA-C	-5.91	106.02	113.18
1	13	204	ALA	N-CA-C	5.91	117.53	111.14
1	aI	229	ARG	O-C-N	-5.91	115.21	122.25
1	b5	53	ASN	O-C-N	-5.91	115.98	122.07
1	bg	154	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
1	18	176	GLN	N-CA-C	-5.91	104.60	112.94
1	bL	12	HIS	CB-CG-CD2	-5.91	123.51	131.20
1	bQ	224	PRO	N-CA-C	5.91	120.51	111.11
1	c0	66	MET	N-CA-C	5.91	117.73	111.28
1	c5	193	ASN	CA-CB-CG	-5.91	106.69	112.60
1	c7	79	GLU	N-CA-C	5.91	121.13	111.37
1	cg	121	ASN	O-C-N	-5.91	114.52	121.32
1	cC	225	GLY	CA-C-O	5.91	125.55	119.10
1	cE	20	LEU	N-CA-C	5.91	117.81	111.36
1	cJ	212	GLU	N-CA-C	5.91	118.23	111.02
1	cP	228	ALA	N-CA-C	5.91	118.93	110.24
1	cQ	36	VAL	CA-C-O	5.91	126.90	120.57
1	cT	159	GLU	O-C-N	5.91	126.56	121.30
1	cW	104	ILE	CA-C-O	5.91	126.90	120.57
1	db	32	PHE	CA-C-N	5.91	132.47	123.96
1	db	32	PHE	C-N-CA	5.91	132.47	123.96
1	do	121	ASN	CB-CA-C	-5.91	101.33	110.62
1	dp	217	ALA	CA-C-N	5.91	132.84	121.54
1	dp	217	ALA	C-N-CA	5.91	132.84	121.54
1	dD	98	GLU	N-CA-C	5.91	119.93	109.58
1	dE	201	ILE	CA-C-N	5.91	128.20	120.28
1	dE	201	ILE	C-N-CA	5.91	128.20	120.28
1	dG	230	VAL	O-C-N	-5.91	116.24	122.57
1	e7	159	GLU	O-C-N	-5.91	115.15	121.42
1	ef	61	GLY	CA-C-O	-5.91	116.37	122.28
1	eo	105	ALA	N-CA-C	-5.91	105.72	113.17
1	eB	171	THR	CA-C-N	5.91	128.20	120.28
1	eB	171	THR	C-N-CA	5.91	128.20	120.28
1	eC	139	ASN	CA-C-N	5.91	128.69	120.29
1	eC	139	ASN	C-N-CA	5.91	128.69	120.29
1	eM	87	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	eS	217	ALA	O-C-N	-5.91	115.53	122.81
1	eV	227	LYS	N-CA-C	-5.91	102.57	110.55
1	eW	213	GLU	CA-C-N	5.91	128.21	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	213	GLU	C-N-CA	5.91	128.21	120.28
1	eX	197	ASP	N-CA-C	5.91	117.40	111.07
1	fg	168	PHE	N-CA-C	5.91	118.21	111.11
1	fw	205	LEU	N-CA-CB	5.91	118.75	109.94
1	1y	32	PHE	CA-CB-CG	-5.91	107.89	113.80
1	fE	199	LYS	N-CA-C	5.91	118.68	111.82
1	fF	205	LEU	N-CA-C	5.91	118.21	111.11
1	fQ	37	ILE	CA-C-O	-5.91	114.73	118.69
1	g5	129	ILE	CA-C-O	5.91	127.61	121.05
1	f	224	PRO	CA-C-N	5.91	133.00	121.41
1	f	224	PRO	C-N-CA	5.91	133.00	121.41
1	o	120	HIS	CA-C-O	-5.91	115.01	121.87
1	4	103	ASP	N-CA-CB	5.91	118.58	110.01
1	gl	84	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	go	140	LYS	N-CA-C	5.91	118.20	111.11
1	gB	164	TYR	CA-C-N	5.91	128.01	120.56
1	gB	164	TYR	C-N-CA	5.91	128.01	120.56
1	gL	162	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	id	98	GLU	CB-CA-C	5.91	118.70	109.42
1	ie	191	VAL	N-CA-C	5.91	116.57	110.36
1	iT	81	ASP	O-C-N	-5.91	115.70	122.09
1	j4	50	GLN	N-CA-CB	-5.91	101.43	110.12
1	j8	28	GLU	CA-C-N	5.91	128.13	120.44
1	j8	28	GLU	C-N-CA	5.91	128.13	120.44
1	j9	195	ASN	N-CA-C	5.91	116.84	109.57
1	jl	229	ARG	O-C-N	-5.91	115.83	122.75
1	jr	204	ALA	N-CA-C	5.91	118.48	111.33
1	jO	174	ALA	N-CA-C	5.91	117.72	111.28
1	k6	33	SER	N-CA-C	-5.91	102.90	108.22
1	kt	169	TYR	N-CA-C	5.91	118.68	111.82
1	ku	163	ASP	CA-CB-CG	-5.91	106.69	112.60
1	kA	230	VAL	O-C-N	-5.91	116.80	123.18
1	lr	100	ARG	O-C-N	-5.91	114.87	122.20
1	lP	104	ILE	N-CA-CB	5.91	118.58	110.54
1	2r	203	LYS	CA-C-O	5.91	126.82	120.55
1	2D	82	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	2Y	117	TRP	CA-C-O	5.91	126.69	120.42
1	3E	133	TRP	N-CA-C	5.91	117.72	111.28
1	4O	113	GLU	N-CA-C	5.91	117.80	111.36
1	4P	223	GLY	CA-C-N	5.91	126.26	119.93
1	4P	223	GLY	C-N-CA	5.91	126.26	119.93
1	5b	182	LYS	CA-C-O	-5.91	114.15	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5j	208	ALA	CA-C-N	5.91	132.20	121.97
1	5j	208	ALA	C-N-CA	5.91	132.20	121.97
1	5B	26	VAL	CA-C-O	5.91	126.64	120.25
1	6k	55	MET	CG-SD-CE	-5.91	87.89	100.90
1	8A	82	ARG	CA-C-O	5.91	126.79	120.70
1	8K	95	GLN	CB-CG-CD	5.91	122.65	112.60
1	97	145	TYR	N-CA-CB	5.91	120.73	110.98
1	9a	27	VAL	N-CA-CB	5.91	119.45	110.58
1	9r	6	LEU	N-CA-C	-5.91	105.73	113.12
1	9B	213	GLU	O-C-N	-5.91	115.88	122.03
1	ap	23	TRP	CA-C-O	5.91	126.82	120.55
1	aI	102	SER	CA-C-N	5.91	128.20	120.28
1	aI	102	SER	C-N-CA	5.91	128.20	120.28
1	aI	204	ALA	CA-C-N	5.91	128.48	120.44
1	aI	204	ALA	C-N-CA	5.91	128.48	120.44
1	aL	140	LYS	N-CA-C	5.91	118.51	111.71
1	aQ	204	ALA	O-C-N	-5.91	115.00	122.27
1	bl	163	ASP	N-CA-C	5.91	117.72	111.28
1	bM	87	HIS	N-CA-C	5.91	119.80	111.52
1	cq	57	ASN	CA-CB-CG	-5.91	106.69	112.60
1	cI	105	ALA	CA-C-O	5.91	126.74	119.05
1	1h	20	LEU	CB-CA-C	-5.91	101.60	110.88
1	em	58	THR	CA-CB-CG2	5.91	120.55	110.50
1	em	164	TYR	N-CA-C	5.91	117.72	111.28
1	es	76	GLU	CB-CA-C	5.91	120.16	110.88
1	eA	142	VAL	CA-C-N	5.91	128.20	120.28
1	eA	142	VAL	C-N-CA	5.91	128.20	120.28
1	eI	209	ALA	CA-C-O	5.91	127.56	121.23
1	eX	55	MET	O-C-N	-5.91	115.85	122.12
1	f1	15	ILE	CA-C-N	5.91	128.69	120.65
1	f1	15	ILE	C-N-CA	5.91	128.69	120.65
1	ff	226	HIS	CA-CB-CG	5.91	119.71	113.80
1	H	140	LYS	CB-CA-C	-5.91	99.32	110.67
1	g9	30	LYS	CA-C-N	5.91	132.83	121.54
1	g9	30	LYS	C-N-CA	5.91	132.83	121.54
1	g9	181	VAL	CA-C-O	5.91	127.10	120.95
1	gq	95	GLN	N-CA-C	5.91	118.15	110.53
1	gr	28	GLU	CB-CG-CD	5.91	122.65	112.60
1	gL	159	GLU	CA-C-O	-5.91	114.19	119.75
1	gU	87	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	h6	97	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	h8	214	MET	O-C-N	-5.91	115.86	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hc	100	ARG	O-C-N	-5.91	115.38	122.65
1	1I	108	THR	N-CA-CB	5.91	119.53	110.61
1	hs	53	ASN	N-CA-C	5.91	117.72	111.28
1	1K	97	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	hG	141	ILE	N-CA-C	5.91	116.09	110.53
1	hY	199	LYS	O-C-N	-5.91	115.71	122.09
1	ia	181	VAL	O-C-N	-5.91	116.12	121.91
1	ic	174	ALA	CA-C-N	5.91	128.20	120.28
1	ic	174	ALA	C-N-CA	5.91	128.20	120.28
1	if	74	ASN	CA-C-O	5.91	126.78	120.10
1	ik	144	MET	N-CA-CB	-5.91	101.12	110.28
1	im	145	TYR	CA-C-O	5.91	126.79	120.70
1	iH	114	GLN	N-CA-C	-5.91	104.92	111.36
1	iJ	162	ARG	CA-C-N	5.91	128.52	120.54
1	iJ	162	ARG	C-N-CA	5.91	128.52	120.54
1	iO	167	ARG	O-C-N	-5.91	115.98	122.07
1	iT	70	LYS	N-CA-CB	5.91	118.92	110.06
1	j0	191	VAL	N-CA-C	5.91	116.09	110.42
1	j4	40	PHE	CA-CB-CG	-5.91	107.89	113.80
1	jo	127	GLY	N-CA-C	5.91	119.36	112.50
1	jx	220	GLY	O-C-N	-5.91	115.88	122.68
1	k8	171	THR	CA-C-N	5.91	128.79	120.28
1	k8	171	THR	C-N-CA	5.91	128.79	120.28
1	ke	178	SER	CA-CB-OG	5.91	122.92	111.10
1	kg	162	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	ki	164	TYR	O-C-N	5.91	128.16	122.07
1	ko	42	ALA	N-CA-C	5.91	117.39	111.07
1	kE	73	ILE	O-C-N	-5.91	116.14	121.87
1	kK	25	LYS	CB-CA-C	5.91	120.27	110.81
1	ll	167	ARG	CD-NE-CZ	-5.91	116.12	124.40
1	lt	167	ARG	O-C-N	5.91	130.25	122.33
1	lu	53	ASN	CA-CB-CG	-5.91	106.69	112.60
1	lD	8	GLY	CA-C-O	5.91	126.80	120.30
1	2d	129	ILE	O-C-N	-5.91	115.85	121.94
1	2i	214	MET	CA-C-N	5.91	130.06	120.60
1	2i	214	MET	C-N-CA	5.91	130.06	120.60
1	2k	47	ALA	CA-C-O	-5.91	114.54	121.16
1	2L	65	ALA	O-C-N	-5.91	115.86	122.12
1	30	192	GLN	CB-CG-CD	5.91	122.65	112.60
1	33	11	VAL	O-C-N	-5.91	116.83	123.03
1	3a	169	TYR	CA-C-O	5.91	126.64	119.31
1	3h	139	ASN	CA-CB-CG	5.91	118.51	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	118	MET	CG-SD-CE	-5.91	87.90	100.90
1	3H	183	ASN	CA-CB-CG	5.91	118.51	112.60
1	3O	28	GLU	CA-C-O	-5.91	114.29	120.55
1	44	57	ASN	CA-CB-CG	5.91	118.51	112.60
1	4a	60	GLY	O-C-N	-5.91	117.28	122.90
1	4i	62	HIS	CG-CD2-NE2	-5.91	101.29	107.20
1	4m	193	ASN	O-C-N	-5.91	115.25	122.34
1	4s	220	GLY	CA-C-N	5.91	129.40	120.77
1	4s	220	GLY	C-N-CA	5.91	129.40	120.77
1	4L	21	ASN	CA-CB-CG	-5.91	106.69	112.60
1	52	186	THR	CA-C-O	5.91	126.52	119.60
1	55	73	ILE	CA-C-O	-5.91	114.90	121.17
1	57	60	GLY	CA-C-N	5.91	128.75	121.06
1	57	60	GLY	C-N-CA	5.91	128.75	121.06
1	5g	153	ILE	N-CA-C	5.91	116.64	108.84
1	5u	82	ARG	CD-NE-CZ	-5.91	116.13	124.40
1	5I	12	HIS	CA-C-O	5.91	127.36	120.80
1	5V	120	HIS	CG-CD2-NE2	5.91	113.11	107.20
1	5Z	201	ILE	CA-C-N	5.91	128.68	120.29
1	5Z	201	ILE	C-N-CA	5.91	128.68	120.29
1	64	162	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	6d	132	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	6q	201	ILE	CA-C-O	5.91	127.61	121.05
1	6G	28	GLU	CA-C-O	-5.91	114.28	120.55
1	7d	42	ALA	CA-C-O	5.91	126.81	120.55
1	7n	210	THR	N-CA-CB	5.91	118.75	109.83
1	7v	25	LYS	CA-C-N	5.91	128.22	120.60
1	7v	25	LYS	C-N-CA	5.91	128.22	120.60
1	7D	154	ARG	O-C-N	-5.91	116.65	123.33
1	7O	160	PRO	CA-C-N	5.91	128.68	120.29
1	7O	160	PRO	C-N-CA	5.91	128.68	120.29
1	7V	66	MET	CA-C-N	5.91	128.20	120.28
1	7V	66	MET	C-N-CA	5.91	128.20	120.28
1	7V	115	ILE	CA-CB-CG2	-5.91	100.45	110.50
1	82	176	GLN	N-CA-CB	-5.91	102.72	110.88
1	8b	200	THR	CA-C-N	5.91	128.81	120.42
1	8b	200	THR	C-N-CA	5.91	128.81	120.42
1	8t	80	TRP	CA-C-N	5.91	128.20	120.28
1	8t	80	TRP	C-N-CA	5.91	128.20	120.28
1	8F	115	ILE	CA-C-N	5.91	126.54	119.98
1	8F	115	ILE	C-N-CA	5.91	126.54	119.98
1	9h	105	ALA	CA-C-N	5.91	132.24	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9h	105	ALA	C-N-CA	5.91	132.24	120.77
1	9j	148	THR	CA-CB-OG1	5.91	118.47	109.60
1	9D	228	ALA	O-C-N	-5.91	115.71	122.68
1	Y	23	TRP	CA-C-O	5.91	126.81	120.55
1	9W	18	ARG	CA-C-N	5.91	128.52	120.54
1	9W	18	ARG	C-N-CA	5.91	128.52	120.54
1	9Z	62	HIS	ND1-CG-CD2	5.91	112.01	106.10
1	a6	193	ASN	OD1-CG-ND2	5.91	128.51	122.60
1	a8	91	ILE	CA-C-N	5.91	129.64	120.60
1	a8	91	ILE	C-N-CA	5.91	129.64	120.60
1	a9	16	SER	N-CA-CB	5.91	118.47	110.14
1	ag	87	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	ax	77	ALA	CA-C-N	5.91	128.20	120.28
1	ax	77	ALA	C-N-CA	5.91	128.20	120.28
1	aC	84	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	aO	2	ILE	CA-C-O	5.91	126.59	120.39
1	16	143	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	bo	65	ALA	N-CA-CB	5.91	118.81	110.12
1	bv	37	ILE	CA-C-O	5.91	122.65	118.69
1	bC	142	VAL	N-CA-CB	5.91	117.86	110.47
1	bM	69	LEU	CB-CA-C	5.91	120.60	110.79
1	bN	132	ARG	N-CA-CB	5.91	118.81	110.12
1	cp	124	ILE	N-CA-CB	5.91	118.28	111.31
1	cT	214	MET	CA-C-O	-5.91	114.28	120.55
1	d7	177	ALA	N-CA-CB	5.91	118.66	109.85
1	dk	189	LEU	N-CA-C	5.91	118.20	111.11
1	dD	42	ALA	N-CA-C	5.91	118.51	111.71
1	dP	130	TYR	CA-C-N	5.91	128.20	120.28
1	dP	130	TYR	C-N-CA	5.91	128.20	120.28
1	dT	57	ASN	CA-C-N	5.91	128.79	120.28
1	dT	57	ASN	C-N-CA	5.91	128.79	120.28
1	dY	92	GLU	O-C-N	-5.91	115.33	121.60
1	e8	154	ARG	N-CA-C	5.91	123.39	110.80
1	ef	16	SER	CA-C-O	-5.91	114.69	120.19
1	eA	225	GLY	O-C-N	-5.91	115.02	122.70
1	eB	68	MET	CB-CA-C	5.91	120.60	110.79
1	eR	187	GLU	N-CA-C	5.91	118.48	111.33
1	eV	124	ILE	N-CA-C	-5.91	101.15	107.77
1	f4	162	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	f5	186	THR	CA-C-O	5.91	127.21	121.00
1	f7	26	VAL	N-CA-CB	5.91	117.47	110.55
1	fd	117	TRP	N-CA-C	5.91	118.51	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fg	143	ARG	N-CA-C	5.91	118.68	111.82
1	1x	199	LYS	CA-C-N	5.91	128.12	120.44
1	1x	199	LYS	C-N-CA	5.91	128.12	120.44
1	fU	104	ILE	CB-CA-C	-5.91	102.69	112.26
1	g3	65	ALA	CA-C-O	-5.91	114.61	120.70
1	e	164	TYR	N-CA-C	5.91	117.39	111.07
1	l	127	GLY	CA-C-N	5.91	128.52	120.54
1	l	127	GLY	C-N-CA	5.91	128.52	120.54
1	p	144	MET	N-CA-C	5.91	118.67	111.82
1	u	184	TRP	CB-CG-CD2	5.91	135.07	126.80
1	y	84	HIS	CA-C-N	5.91	127.23	119.84
1	y	84	HIS	C-N-CA	5.91	127.23	119.84
1	V	133	TRP	N-CA-C	5.91	117.39	111.07
1	gi	162	ARG	CA-C-O	-5.91	113.42	120.10
1	gj	76	GLU	O-C-N	-5.91	115.00	122.27
1	gj	84	HIS	CA-C-O	-5.91	113.88	119.55
1	gq	64	ALA	O-C-N	-5.91	115.98	122.07
1	gy	205	LEU	CA-C-O	5.91	126.58	119.43
1	gA	36	VAL	N-CA-C	5.91	117.36	110.62
1	gF	166	ASP	CA-CB-CG	5.91	118.51	112.60
1	gL	96	MET	N-CA-C	5.91	118.48	111.33
1	gP	33	SER	CB-CA-C	5.91	117.20	108.87
1	h7	14	ALA	N-CA-C	5.91	118.17	110.43
1	ho	13	GLN	CA-C-N	5.91	129.51	120.82
1	ho	13	GLN	C-N-CA	5.91	129.51	120.82
1	ho	110	THR	O-C-N	-5.91	115.84	122.75
1	hz	226	HIS	CB-CG-ND1	5.91	131.56	122.70
1	hM	79	GLU	N-CA-C	5.91	118.50	111.71
1	i7	129	ILE	O-C-N	-5.91	116.14	121.87
1	ic	31	ALA	O-C-N	-5.91	114.73	122.59
1	il	211	LEU	CA-C-O	5.91	126.78	120.10
1	it	178	SER	CA-C-N	5.91	128.20	120.28
1	it	178	SER	C-N-CA	5.91	128.20	120.28
1	iy	21	ASN	CA-C-N	5.91	128.20	120.28
1	iy	21	ASN	C-N-CA	5.91	128.20	120.28
1	iz	195	ASN	OD1-CG-ND2	5.91	128.51	122.60
1	iE	143	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	iH	230	VAL	O-C-N	-5.91	116.22	122.95
1	iO	65	ALA	CA-C-O	-5.91	114.62	120.82
1	iT	143	ARG	CA-C-N	5.91	128.12	120.44
1	iT	143	ARG	C-N-CA	5.91	128.12	120.44
1	1T	100	ARG	O-C-N	-5.91	115.44	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	213	GLU	N-CA-C	5.91	117.80	111.36
1	ji	152	ASP	CA-CB-CG	-5.91	106.69	112.60
1	1V	102	SER	CA-C-N	5.91	128.20	120.28
1	1V	102	SER	C-N-CA	5.91	128.20	120.28
1	1V	120	HIS	O-C-N	-5.91	114.87	122.20
1	jv	181	VAL	O-C-N	-5.91	116.14	121.87
1	jy	198	CYS	N-CA-C	-5.91	104.75	111.07
1	jE	100	ARG	N-CA-C	-5.91	102.91	110.53
1	jI	50	GLN	N-CA-C	5.91	117.39	111.07
1	k9	5	ASN	N-CA-C	5.91	118.53	110.55
1	kc	18	ARG	N-CA-CB	5.91	118.53	109.91
1	kh	73	ILE	O-C-N	-5.91	116.14	121.87
1	22	103	ASP	CA-C-N	5.91	128.00	120.56
1	22	103	ASP	C-N-CA	5.91	128.00	120.56
1	kB	79	GLU	CA-C-N	5.91	128.12	120.44
1	kB	79	GLU	C-N-CA	5.91	128.12	120.44
1	kH	102	SER	CA-C-O	5.91	126.81	120.55
1	lh	87	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	ls	202	LEU	N-CA-C	5.91	118.48	111.33
1	lt	77	ALA	N-CA-C	5.91	117.72	111.28
1	2i	223	GLY	N-CA-C	5.91	124.39	112.34
1	2k	207	PRO	N-CA-C	-5.91	106.97	114.35
1	2m	164	TYR	CA-C-N	5.91	128.81	120.42
1	2m	164	TYR	C-N-CA	5.91	128.81	120.42
1	2H	161	PHE	CA-CB-CG	5.91	119.71	113.80
1	2M	24	VAL	N-CA-CB	-5.91	102.51	110.54
1	2N	32	PHE	N-CA-CB	5.91	120.47	110.49
1	2O	154	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	3k	32	PHE	CD1-CG-CD2	-5.91	109.74	118.60
1	3n	12	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	3n	221	VAL	CA-C-O	5.91	127.61	121.05
1	3o	162	ARG	O-C-N	-5.91	115.86	122.12
1	3q	194	ALA	CA-C-N	5.91	128.69	120.65
1	3q	194	ALA	C-N-CA	5.91	128.69	120.65
1	3C	230	VAL	N-CA-CB	5.91	119.56	111.41
1	3N	173	ARG	N-CA-C	5.91	117.72	111.28
1	44	203	LYS	O-C-N	-5.91	115.86	122.12
1	4l	75	GLU	O-C-N	-5.91	115.86	122.12
1	4n	41	SER	N-CA-C	-5.91	104.84	111.28
1	52	137	GLY	N-CA-C	5.91	121.29	113.37
1	5b	226	HIS	CA-C-N	5.91	129.15	120.82
1	5b	226	HIS	C-N-CA	5.91	129.15	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5s	176	GLN	N-CA-C	5.91	120.61	113.17
1	5s	191	VAL	CB-CA-C	-5.91	104.32	112.24
1	5I	79	GLU	N-CA-C	5.91	117.72	111.28
1	5O	72	THR	O-C-N	5.91	128.16	122.07
1	5V	201	ILE	N-CA-C	5.91	116.65	110.62
1	6q	206	GLY	CA-C-N	5.91	127.22	119.84
1	6q	206	GLY	C-N-CA	5.91	127.22	119.84
1	6N	51	ASP	CA-C-N	5.91	128.52	120.54
1	6N	51	ASP	C-N-CA	5.91	128.52	120.54
1	71	82	ARG	CA-C-N	5.91	128.68	120.29
1	71	82	ARG	C-N-CA	5.91	128.68	120.29
1	79	204	ALA	N-CA-C	5.91	117.52	111.14
1	7x	197	ASP	CB-CA-C	-5.91	100.98	110.79
1	7U	90	PRO	N-CA-CB	5.91	108.28	103.32
1	84	228	ALA	N-CA-C	-5.91	106.04	113.72
1	8c	103	ASP	CA-C-N	5.91	128.22	120.60
1	8c	103	ASP	C-N-CA	5.91	128.22	120.60
1	8d	87	HIS	CB-CG-CD2	-5.91	123.52	131.20
1	8e	84	HIS	CA-C-N	5.91	125.92	119.89
1	8e	84	HIS	C-N-CA	5.91	125.92	119.89
1	8e	132	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	8k	208	ALA	N-CA-C	5.91	119.79	111.52
1	8E	229	ARG	NE-CZ-NH2	5.91	124.52	119.20
1	8L	20	LEU	N-CA-C	5.91	117.72	111.28
1	8W	79	GLU	CA-C-N	5.91	128.12	120.44
1	8W	79	GLU	C-N-CA	5.91	128.12	120.44
1	8Z	229	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	91	29	GLU	O-C-N	-5.91	115.33	122.48
1	98	84	HIS	CA-C-N	5.91	127.22	119.84
1	98	84	HIS	C-N-CA	5.91	127.22	119.84
1	9o	74	ASN	CA-CB-CG	-5.91	106.69	112.60
1	9q	84	HIS	CA-C-N	5.91	126.25	119.93
1	9q	84	HIS	C-N-CA	5.91	126.25	119.93
1	9y	93	PRO	CB-CA-C	5.91	119.06	111.56
1	9y	95	GLN	CA-C-O	-5.91	114.31	121.05
1	9C	76	GLU	N-CA-C	5.91	118.50	111.71
1	9R	183	ASN	O-C-N	5.91	128.38	122.12
1	a3	141	ILE	N-CA-C	5.91	116.65	110.62
1	a5	32	PHE	CA-CB-CG	-5.91	107.89	113.80
1	a9	225	GLY	CA-C-N	5.91	129.75	121.24
1	a9	225	GLY	C-N-CA	5.91	129.75	121.24
1	ac	214	MET	N-CA-C	5.91	119.67	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	159	GLU	CA-C-N	5.91	125.87	119.78
1	ak	159	GLU	C-N-CA	5.91	125.87	119.78
1	av	101	GLY	N-CA-C	5.91	120.04	112.83
1	aC	189	LEU	N-CA-CB	5.91	119.00	110.20
1	aR	173	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	b7	68	MET	CA-C-O	5.91	127.03	120.82
1	be	99	PRO	CA-C-N	5.91	131.72	120.97
1	be	99	PRO	C-N-CA	5.91	131.72	120.97
1	bh	15	ILE	O-C-N	-5.91	115.32	122.59
1	bu	88	ALA	CA-C-N	5.91	131.15	121.87
1	bu	88	ALA	C-N-CA	5.91	131.15	121.87
1	bT	91	ILE	O-C-N	-5.91	116.23	122.67
1	bT	162	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	bY	120	HIS	CG-CD2-NE2	5.91	113.11	107.20
1	cg	227	LYS	CA-C-O	5.91	126.78	120.46
1	ck	120	HIS	CA-CB-CG	5.91	119.71	113.80
1	1f	126	VAL	O-C-N	-5.91	115.12	121.80
1	cE	141	ILE	N-CA-CB	5.91	118.58	110.54
1	dk	19	THR	O-C-N	-5.91	115.71	122.09
1	dl	3	VAL	CB-CA-C	-5.91	101.89	110.63
1	dU	170	LYS	CA-C-N	5.91	128.47	120.38
1	dU	170	LYS	C-N-CA	5.91	128.47	120.38
1	dW	48	THR	CA-C-N	5.91	125.38	119.24
1	dW	48	THR	C-N-CA	5.91	125.38	119.24
1	e3	137	GLY	CA-C-N	5.91	128.20	120.28
1	e3	137	GLY	C-N-CA	5.91	128.20	120.28
1	e8	137	GLY	CA-C-O	5.91	126.80	120.30
1	e8	171	THR	CA-C-N	5.91	128.20	120.28
1	e8	171	THR	C-N-CA	5.91	128.20	120.28
1	eB	196	PRO	N-CA-C	5.91	123.35	113.78
1	eI	87	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	eN	53	ASN	N-CA-CB	5.91	119.32	110.22
1	eN	54	THR	CA-C-N	5.91	128.52	120.54
1	eN	54	THR	C-N-CA	5.91	128.52	120.54
1	eS	154	ARG	O-C-N	-5.91	116.31	123.10
1	f3	174	ALA	N-CA-C	5.91	118.50	111.71
1	ff	94	GLY	CA-C-O	5.91	125.53	118.97
1	fj	143	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	fk	77	ALA	CA-C-N	5.91	128.47	120.44
1	fk	77	ALA	C-N-CA	5.91	128.47	120.44
1	fn	80	TRP	CD2-CE2-CZ2	-5.91	116.49	122.40
1	fw	39	MET	CA-C-O	5.91	127.02	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fw	177	ALA	O-C-N	5.91	130.21	123.12
1	fI	16	SER	CA-C-O	-5.91	114.91	119.46
1	fJ	70	LYS	CA-C-N	5.91	128.79	120.28
1	fJ	70	LYS	C-N-CA	5.91	128.79	120.28
1	fN	120	HIS	O-C-N	5.91	130.83	123.15
1	fT	213	GLU	CA-C-N	5.91	128.68	120.29
1	fT	213	GLU	C-N-CA	5.91	128.68	120.29
1	fU	224	PRO	N-CA-CB	5.91	109.45	103.25
1	g7	89	GLY	CA-C-O	-5.91	113.07	121.52
1	s	183	ASN	OD1-CG-ND2	-5.91	116.69	122.60
1	v	70	LYS	CA-C-N	5.91	128.12	120.44
1	v	70	LYS	C-N-CA	5.91	128.12	120.44
1	A	36	VAL	CA-C-N	5.91	133.06	122.13
1	A	36	VAL	C-N-CA	5.91	133.06	122.13
1	g8	72	THR	OG1-CB-CG2	-5.91	97.49	109.30
1	g8	120	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	gh	10	MET	N-CA-C	5.91	118.38	110.35
1	gQ	181	VAL	O-C-N	-5.91	115.76	121.90
1	h4	74	ASN	O-C-N	-5.91	115.42	122.15
1	h5	136	LEU	CA-C-N	5.91	126.50	119.94
1	h5	136	LEU	C-N-CA	5.91	126.50	119.94
1	il	115	ILE	CA-C-N	5.91	127.52	120.14
1	il	115	ILE	C-N-CA	5.91	127.52	120.14
1	in	155	GLN	N-CA-CB	5.91	118.65	109.85
1	iq	146	SER	CA-C-N	5.91	127.22	119.84
1	iq	146	SER	C-N-CA	5.91	127.22	119.84
1	iU	31	ALA	N-CA-C	5.91	117.72	111.28
1	j7	209	ALA	N-CA-C	5.91	118.38	110.35
1	jg	74	ASN	CA-CB-CG	-5.91	106.69	112.60
1	1W	141	ILE	O-C-N	-5.91	116.14	121.87
1	jI	130	TYR	CB-CG-CD1	5.91	129.66	120.80
1	jN	62	HIS	O-C-N	5.91	130.12	122.86
1	jU	72	THR	N-CA-C	5.91	118.67	111.82
1	k9	66	MET	CA-C-N	5.91	128.19	120.28
1	k9	66	MET	C-N-CA	5.91	128.19	120.28
1	kT	83	LEU	N-CA-C	5.91	117.80	111.36
1	l2	23	TRP	CA-CB-CG	5.91	124.82	113.60
1	l9	17	PRO	CA-C-N	5.91	128.19	120.28
1	l9	17	PRO	C-N-CA	5.91	128.19	120.28
1	ld	145	TYR	N-CA-C	5.91	119.67	112.23
1	lD	74	ASN	CA-C-N	5.91	128.19	120.28
1	lD	74	ASN	C-N-CA	5.91	128.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lJ	28	GLU	N-CA-C	5.91	117.41	110.97
1	lL	115	ILE	CB-CA-C	-5.91	104.41	111.97
1	2f	104	ILE	CA-C-O	5.91	127.09	120.95
1	3w	82	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	3A	221	VAL	N-CA-C	-5.91	101.96	109.58
1	3D	12	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	3E	204	ALA	N-CA-C	5.91	117.39	111.07
1	43	114	GLN	N-CA-C	5.91	118.67	111.82
1	5G	191	VAL	CA-C-N	5.91	128.19	120.28
1	5G	191	VAL	C-N-CA	5.91	128.19	120.28
1	5Q	5	ASN	CA-C-N	5.91	132.82	121.54
1	5Q	5	ASN	C-N-CA	5.91	132.82	121.54
1	5R	95	GLN	N-CA-C	5.91	118.58	109.07
1	60	162	ARG	N-CA-C	5.91	117.72	111.28
1	6M	198	CYS	N-CA-C	5.91	117.72	111.28
1	6U	25	LYS	N-CA-C	5.91	117.72	111.28
1	7p	134	ILE	CA-C-N	5.91	128.55	120.46
1	7p	134	ILE	C-N-CA	5.91	128.55	120.46
1	7G	115	ILE	N-CA-C	5.91	116.64	110.62
1	8a	136	LEU	CB-CA-C	-5.91	100.98	110.79
1	8o	226	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	8V	50	GLN	N-CA-C	5.91	117.39	111.07
1	9D	58	THR	CA-C-O	5.91	126.63	119.31
1	ac	20	LEU	CA-C-N	5.91	128.51	120.54
1	ac	20	LEU	C-N-CA	5.91	128.51	120.54
1	aI	29	GLU	N-CA-C	5.91	117.59	111.03
1	bd	124	ILE	CA-C-N	5.91	129.29	120.96
1	bd	124	ILE	C-N-CA	5.91	129.29	120.96
1	bu	66	MET	CA-C-N	5.91	128.19	120.28
1	bu	66	MET	C-N-CA	5.91	128.19	120.28
1	bu	212	GLU	CA-C-N	5.91	128.68	120.29
1	bu	212	GLU	C-N-CA	5.91	128.68	120.29
1	c4	111	LEU	N-CA-C	5.91	117.72	111.28
1	1c	62	HIS	CB-CG-ND1	-5.91	113.84	122.70
1	cq	31	ALA	CB-CA-C	5.91	122.17	110.42
1	1f	101	GLY	CA-C-N	5.91	129.29	120.31
1	1f	101	GLY	C-N-CA	5.91	129.29	120.31
1	cE	21	ASN	CA-CB-CG	-5.91	106.69	112.60
1	cG	194	ALA	CB-CA-C	5.91	120.41	109.54
1	cQ	217	ALA	CA-C-N	5.91	130.52	122.19
1	cQ	217	ALA	C-N-CA	5.91	130.52	122.19
1	cU	228	ALA	N-CA-C	5.91	117.92	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d7	139	ASN	N-CA-C	5.91	117.72	111.28
1	df	180	GLU	CA-C-N	5.91	128.22	120.60
1	df	180	GLU	C-N-CA	5.91	128.22	120.60
1	dg	200	THR	CA-C-N	5.91	128.00	120.56
1	dg	200	THR	C-N-CA	5.91	128.00	120.56
1	dU	168	PHE	CB-CA-C	5.91	120.15	110.88
1	1o	108	THR	CA-C-N	-5.91	114.66	122.99
1	1o	108	THR	C-N-CA	-5.91	114.66	122.99
1	e2	89	GLY	O-C-N	-5.91	115.86	121.77
1	el	23	TRP	CA-C-O	5.91	126.81	120.55
1	em	1	PRO	CA-C-N	5.91	130.88	123.14
1	em	1	PRO	C-N-CA	5.91	130.88	123.14
1	et	2	ILE	O-C-N	-5.91	116.47	123.03
1	fE	10	MET	O-C-N	-5.91	114.73	122.59
1	fK	80	TRP	CA-C-O	-5.91	114.62	120.82
1	fM	84	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	fM	169	TYR	N-CA-C	5.91	117.80	111.36
1	fR	150	ILE	CA-C-N	5.91	129.29	120.31
1	fR	150	ILE	C-N-CA	5.91	129.29	120.31
1	x	167	ARG	NE-CZ-NH2	-5.91	113.88	119.20
1	C	131	LYS	CA-C-O	5.91	126.81	120.55
1	V	130	TYR	CA-C-O	5.91	126.81	120.55
1	gc	83	LEU	N-CA-C	5.91	117.59	111.03
1	gg	67	GLN	CB-CG-CD	5.91	122.64	112.60
1	gn	41	SER	O-C-N	-5.91	115.95	122.09
1	gw	112	GLN	CA-C-N	5.91	128.19	120.28
1	gw	112	GLN	C-N-CA	5.91	128.19	120.28
1	gw	229	ARG	CA-C-N	5.91	129.31	120.69
1	gw	229	ARG	C-N-CA	5.91	129.31	120.69
1	gB	45	GLU	O-C-N	-5.91	116.29	122.96
1	1F	151	LEU	N-CA-C	-5.91	105.84	113.16
1	gS	72	THR	O-C-N	-5.91	115.42	122.15
1	gT	143	ARG	CG-CD-NE	-5.91	99.01	112.00
1	hN	141	ILE	CA-C-N	5.91	128.00	120.56
1	hN	141	ILE	C-N-CA	5.91	128.00	120.56
1	i4	111	LEU	CA-C-N	5.91	128.19	120.28
1	i4	111	LEU	C-N-CA	5.91	128.19	120.28
1	i4	151	LEU	N-CA-C	5.91	117.72	111.28
1	ib	212	GLU	N-CA-C	5.91	118.20	111.11
1	ij	37	ILE	CA-C-O	-5.91	114.22	118.71
1	im	55	MET	N-CA-C	5.91	117.72	111.28
1	1P	121	ASN	O-C-N	-5.91	114.81	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ix	104	ILE	CA-CB-CG1	5.91	120.44	110.40
1	j0	136	LEU	CA-C-N	5.91	126.50	119.94
1	j0	136	LEU	C-N-CA	5.91	126.50	119.94
1	1T	36	VAL	N-CA-C	5.91	116.69	110.72
1	jb	201	ILE	N-CA-C	5.91	116.64	110.62
1	jc	160	PRO	N-CA-C	5.91	120.48	111.15
1	jj	167	ARG	NE-CZ-NH2	5.91	124.52	119.20
1	jn	113	GLU	CA-C-N	5.91	128.12	120.44
1	jn	113	GLU	C-N-CA	5.91	128.12	120.44
1	jp	101	GLY	O-C-N	-5.91	116.52	122.19
1	jv	195	ASN	CA-C-N	5.91	127.22	119.84
1	jv	195	ASN	C-N-CA	5.91	127.22	119.84
1	jx	195	ASN	CA-C-O	-5.91	114.26	120.70
1	jE	118	MET	O-C-N	-5.91	115.42	122.15
1	jL	141	ILE	CA-CB-CG2	5.91	120.54	110.50
1	jS	87	HIS	CB-CG-ND1	5.91	131.56	122.70
1	jU	37	ILE	O-C-N	-5.91	115.88	120.07
1	jV	148	THR	O-C-N	-5.91	116.52	123.25
1	jZ	114	GLN	CA-C-N	5.91	128.55	120.46
1	jZ	114	GLN	C-N-CA	5.91	128.55	120.46
1	kk	3	VAL	N-CA-C	5.91	117.66	109.45
1	kn	138	LEU	N-CA-C	5.91	118.47	111.33
1	kA	210	THR	N-CA-CB	5.91	119.37	109.92
1	kD	138	LEU	CA-C-N	5.91	128.19	120.28
1	kD	138	LEU	C-N-CA	5.91	128.19	120.28
1	kF	123	PRO	N-CD-CG	-5.91	94.34	103.20
1	kO	131	LYS	N-CA-CB	-5.91	101.45	110.01
1	kX	58	THR	CA-C-O	5.91	126.21	119.18
1	l3	48	THR	CA-CB-OG1	5.91	118.46	109.60
1	ld	167	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	lr	143	ARG	CA-C-N	5.91	128.68	120.29
1	lr	143	ARG	C-N-CA	5.91	128.68	120.29
1	lx	37	ILE	CA-CB-CG2	5.91	120.54	110.50
1	lI	132	ARG	N-CA-C	5.91	117.72	111.28
1	lK	138	LEU	O-C-N	-5.91	115.86	122.12
1	2q	16	SER	CA-C-O	-5.91	114.21	120.23
1	2E	84	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	2E	195	ASN	CA-C-O	-5.91	115.28	120.60
1	2K	154	ARG	O-C-N	-5.91	116.31	123.10
1	2S	204	ALA	N-CA-C	5.91	117.52	111.14
1	32	217	ALA	N-CA-CB	-5.91	101.29	109.97
1	39	48	THR	O-C-N	-5.91	114.06	121.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	116	GLY	N-CA-C	5.91	119.35	112.50
1	3e	23	TRP	CA-C-N	5.91	128.55	120.46
1	3e	23	TRP	C-N-CA	5.91	128.55	120.46
1	3h	161	PHE	CA-CB-CG	5.91	119.71	113.80
1	3n	18	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	3v	32	PHE	CA-CB-CG	-5.91	107.89	113.80
1	3T	168	PHE	CA-CB-CG	5.91	119.70	113.80
1	3U	4	GLN	O-C-N	-5.91	116.28	123.19
1	3Y	141	ILE	N-CA-C	5.91	116.09	110.42
1	4u	119	THR	N-CA-CB	5.91	119.53	110.61
1	4A	198	CYS	O-C-N	-5.91	114.58	122.49
1	4W	79	GLU	N-CA-C	5.91	117.72	111.28
1	4W	94	GLY	N-CA-C	-5.91	106.94	115.27
1	5c	6	LEU	CA-C-N	5.91	129.50	120.82
1	5c	6	LEU	C-N-CA	5.91	129.50	120.82
1	5u	172	LEU	O-C-N	-5.91	115.71	122.09
1	5B	143	ARG	O-C-N	-5.91	115.99	122.07
1	6g	116	GLY	CA-C-N	5.91	128.19	120.28
1	6g	116	GLY	C-N-CA	5.91	128.19	120.28
1	6g	194	ALA	O-C-N	-5.91	116.44	123.06
1	6E	13	GLN	N-CA-C	-5.91	100.37	109.52
1	6L	183	ASN	OD1-CG-ND2	-5.91	116.69	122.60
1	72	26	VAL	O-C-N	-5.91	116.03	121.94
1	7e	58	THR	CA-C-N	5.91	130.04	121.18
1	7e	58	THR	C-N-CA	5.91	130.04	121.18
1	7n	67	GLN	CG-CD-OE1	5.91	132.61	120.80
1	7v	109	SER	O-C-N	-5.91	116.34	123.13
1	7y	74	ASN	CB-CG-OD1	5.91	132.61	120.80
1	7y	112	GLN	CA-C-N	5.91	128.19	120.28
1	7y	112	GLN	C-N-CA	5.91	128.19	120.28
1	7E	214	MET	O-C-N	-5.91	115.71	122.09
1	8d	72	THR	OG1-CB-CG2	-5.91	97.49	109.30
1	8h	174	ALA	CA-C-O	-5.91	113.43	120.10
1	8m	64	ALA	CB-CA-C	5.91	120.59	110.79
1	8B	95	GLN	OE1-CD-NE2	-5.91	116.69	122.60
1	9b	22	ALA	N-CA-C	5.91	118.47	111.33
1	9c	48	THR	N-CA-CB	5.91	117.93	109.78
1	9w	73	ILE	N-CA-C	5.91	118.43	111.05
1	9C	4	GLN	CB-CA-C	5.91	119.21	109.70
1	9C	100	ARG	NE-CZ-NH2	5.91	124.52	119.20
1	9J	195	ASN	CA-CB-CG	5.91	118.51	112.60
1	a3	85	PRO	CA-C-N	5.91	129.46	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a3	85	PRO	C-N-CA	5.91	129.46	120.13
1	11	2	ILE	CA-CB-CG2	-5.91	100.46	110.50
1	al	161	PHE	CA-CB-CG	-5.91	107.89	113.80
1	aB	80	TRP	CE2-CD2-CE3	5.91	124.71	118.80
1	ba	52	LEU	N-CA-CB	5.91	118.80	110.12
1	bm	34	PRO	CA-C-N	5.91	128.78	120.28
1	bm	34	PRO	C-N-CA	5.91	128.78	120.28
1	bA	114	GLN	N-CA-C	5.91	117.39	111.07
1	bA	149	SER	N-CA-C	5.91	119.16	110.30
1	bG	226	HIS	ND1-CE1-NE2	5.91	114.31	108.40
1	bJ	203	LYS	CB-CA-C	-5.91	99.33	110.67
1	bO	149	SER	CA-C-N	5.91	128.55	120.46
1	bO	149	SER	C-N-CA	5.91	128.55	120.46
1	1b	12	HIS	CA-CB-CG	5.91	119.71	113.80
1	bW	142	VAL	CA-C-N	5.91	128.12	120.44
1	bW	142	VAL	C-N-CA	5.91	128.12	120.44
1	c5	160	PRO	CA-C-N	5.91	132.82	121.54
1	c5	160	PRO	C-N-CA	5.91	132.82	121.54
1	cb	67	GLN	CA-C-N	5.91	128.12	120.44
1	cb	67	GLN	C-N-CA	5.91	128.12	120.44
1	cs	216	THR	CA-C-N	5.91	129.86	121.42
1	cs	216	THR	C-N-CA	5.91	129.86	121.42
1	cQ	82	ARG	NE-CZ-NH1	5.91	127.41	121.50
1	dE	132	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
1	dU	84	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
1	dX	95	GLN	CB-CG-CD	5.91	122.64	112.60
1	e4	197	ASP	CA-CB-CG	-5.91	106.69	112.60
1	e6	210	THR	N-CA-CB	5.91	120.77	111.20
1	eb	111	LEU	N-CA-C	5.91	117.72	111.28
1	ep	26	VAL	CA-CB-CG1	5.91	120.44	110.40
1	et	113	GLU	N-CA-C	5.91	117.39	111.07
1	eG	18	ARG	CA-C-O	5.91	126.81	120.55
1	eG	92	GLU	O-C-N	-5.91	114.53	121.32
1	eP	212	GLU	N-CA-C	5.91	117.72	111.28
1	f9	131	LYS	N-CA-C	-5.91	104.92	111.36
1	ft	197	ASP	O-C-N	-5.91	115.89	122.03
1	fz	54	THR	N-CA-CB	5.91	118.57	110.01
1	fE	12	HIS	O-C-N	-5.91	116.60	123.27
1	g0	140	LYS	N-CA-C	5.91	117.72	111.28
1	1B	91	ILE	N-CA-CB	5.91	117.28	110.49
1	a	132	ARG	CG-CD-NE	-5.91	99.01	112.00
1	1	112	GLN	CA-C-N	5.91	128.51	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	112	GLN	C-N-CA	5.91	128.51	120.54
1	u	130	TYR	O-C-N	-5.91	115.86	122.12
1	v	129	ILE	O-C-N	-5.91	116.12	121.91
1	B	23	TRP	CB-CG-CD1	-5.91	118.04	126.90
1	J	81	ASP	CA-CB-CG	-5.91	106.69	112.60
1	M	1	PRO	N-CA-CB	5.91	109.50	103.00
1	M	191	VAL	O-C-N	-5.91	115.27	122.12
1	U	12	HIS	CG-CD2-NE2	5.91	113.11	107.20
1	gG	120	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	h6	184	TRP	CB-CG-CD1	-5.90	118.04	126.90
1	hi	226	HIS	CA-CB-CG	5.90	119.70	113.80
1	hH	31	ALA	O-C-N	-5.90	114.74	122.59
1	iw	223	GLY	O-C-N	5.90	127.67	121.77
1	1S	120	HIS	CA-CB-CG	-5.90	107.90	113.80
1	1W	26	VAL	O-C-N	-5.90	116.10	121.89
1	jG	96	MET	N-CA-C	5.90	118.79	110.23
1	jY	67	GLN	N-CA-C	5.90	117.72	111.28
1	20	84	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	22	217	ALA	O-C-N	-5.90	114.74	122.59
1	kM	99	PRO	N-CA-C	5.90	120.48	111.15
1	kW	67	GLN	OE1-CD-NE2	5.90	128.50	122.60
1	lK	203	LYS	N-CA-C	5.90	118.50	111.71
1	2X	174	ALA	N-CA-C	5.90	118.50	111.71
1	37	39	MET	CA-C-N	5.90	128.51	120.54
1	37	39	MET	C-N-CA	5.90	128.51	120.54
1	3a	42	ALA	N-CA-C	5.90	118.47	111.33
1	3k	204	ALA	CA-C-O	5.90	126.68	120.42
1	3l	90	PRO	N-CA-C	5.90	124.63	112.47
1	3R	73	ILE	N-CA-C	5.90	117.35	110.62
1	41	37	ILE	O-C-N	-5.90	116.64	120.42
1	44	51	ASP	CB-CA-C	-5.90	100.99	110.79
1	45	212	GLU	N-CA-C	5.90	118.19	111.11
1	4q	16	SER	CA-C-O	-5.90	114.03	120.17
1	4s	152	ASP	CA-CB-CG	5.90	118.50	112.60
1	4E	195	ASN	O-C-N	-5.90	114.82	121.43
1	4R	7	GLN	CA-C-O	5.90	125.55	119.05
1	5d	134	ILE	N-CA-C	5.90	116.64	110.62
1	5e	47	ALA	N-CA-C	5.90	118.56	110.24
1	5v	14	ALA	N-CA-C	5.90	119.22	110.48
1	5C	58	THR	CA-C-O	-5.90	114.62	120.82
1	5F	7	GLN	CA-C-N	5.90	129.17	121.85
1	5F	7	GLN	C-N-CA	5.90	129.17	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	68	156	GLY	O-C-N	-5.90	115.87	121.77
1	6g	63	GLN	CA-C-O	5.90	126.64	119.38
1	6u	139	ASN	CA-C-N	5.90	128.12	120.44
1	6u	139	ASN	C-N-CA	5.90	128.12	120.44
1	6A	189	LEU	CA-C-O	5.90	126.81	120.55
1	7q	155	GLN	N-CA-CB	-5.90	100.66	109.69
1	7V	178	SER	N-CA-C	5.90	117.92	110.24
1	8R	167	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	8W	60	GLY	CA-C-N	5.90	129.62	120.00
1	8W	60	GLY	C-N-CA	5.90	129.62	120.00
1	9g	45	GLU	O-C-N	-5.90	115.52	122.96
1	9q	190	LEU	N-CA-C	5.90	117.72	111.28
1	aa	115	ILE	CA-C-N	5.90	126.66	119.99
1	aa	115	ILE	C-N-CA	5.90	126.66	119.99
1	aj	143	ARG	NH1-CZ-NH2	-5.90	111.62	119.30
1	ay	6	LEU	CA-C-O	5.90	126.45	119.48
1	aG	229	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	aL	170	LYS	N-CA-C	5.90	117.39	111.07
1	b7	217	ALA	N-CA-C	5.90	118.32	110.53
1	b9	22	ALA	CA-C-N	5.90	128.12	120.44
1	b9	22	ALA	C-N-CA	5.90	128.12	120.44
1	bc	72	THR	N-CA-CB	5.90	118.63	110.07
1	bm	12	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	bZ	207	PRO	N-CA-C	-5.90	105.83	113.57
1	cy	58	THR	OG1-CB-CG2	-5.90	97.49	109.30
1	cD	34	PRO	CB-CA-C	-5.90	101.82	111.56
1	cO	141	ILE	CB-CA-C	-5.90	104.41	111.97
1	cY	132	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	dj	149	SER	N-CA-CB	5.90	118.75	109.83
1	do	7	GLN	N-CA-CB	-5.90	101.69	110.61
1	do	33	SER	O-C-N	-5.90	114.42	121.39
1	dq	66	MET	CG-SD-CE	-5.90	87.91	100.90
1	dr	124	ILE	O-C-N	-5.90	115.63	121.12
1	dK	87	HIS	CA-CB-CG	5.90	119.70	113.80
1	eB	187	GLU	CB-CA-C	-5.90	101.61	110.88
1	eM	83	LEU	CA-C-O	5.90	126.77	120.10
1	f3	55	MET	N-CA-C	5.90	117.72	111.28
1	fy	53	ASN	CA-C-O	-5.90	114.29	120.55
1	O	98	GLU	N-CA-C	5.90	118.05	109.84
1	gg	130	TYR	N-CA-CB	5.90	118.80	110.12
1	gE	226	HIS	CA-CB-CG	-5.90	107.90	113.80
1	gL	124	ILE	O-C-N	-5.90	116.86	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gO	225	GLY	CA-C-N	5.90	130.51	122.19
1	gO	225	GLY	C-N-CA	5.90	130.51	122.19
1	h2	50	GLN	O-C-N	-5.90	115.99	122.07
1	hd	168	PHE	CA-C-O	-5.90	114.62	120.82
1	hf	205	LEU	CA-C-O	5.90	126.78	120.70
1	1I	95	GLN	CA-C-O	5.90	127.77	121.16
1	hl	70	LYS	CA-C-N	5.90	128.44	120.65
1	hl	70	LYS	C-N-CA	5.90	128.44	120.65
1	hq	129	ILE	CB-CA-C	-5.90	104.42	111.97
1	hH	23	TRP	CB-CG-CD1	-5.90	118.05	126.90
1	hL	162	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	i1	147	PRO	N-CA-C	5.90	120.47	111.15
1	im	178	SER	N-CA-C	5.90	118.38	110.35
1	im	200	THR	CA-C-N	5.90	128.00	120.56
1	im	200	THR	C-N-CA	5.90	128.00	120.56
1	in	10	MET	CA-C-N	5.90	130.87	123.14
1	in	10	MET	C-N-CA	5.90	130.87	123.14
1	in	100	ARG	CA-C-N	5.90	126.53	119.98
1	in	100	ARG	C-N-CA	5.90	126.53	119.98
1	io	37	ILE	O-C-N	-5.90	116.64	120.42
1	iF	72	THR	CA-C-N	5.90	128.12	120.56
1	iF	72	THR	C-N-CA	5.90	128.12	120.56
1	iR	12	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	j0	230	VAL	CA-C-N	5.90	132.33	121.70
1	j0	230	VAL	C-N-CA	5.90	132.33	121.70
1	j6	105	ALA	CA-C-O	5.90	126.47	119.56
1	1U	162	ARG	O-C-N	-5.90	115.06	122.20
1	ji	174	ALA	O-C-N	-5.90	115.42	122.15
1	jn	40	PHE	CA-C-N	5.90	128.11	120.44
1	jn	40	PHE	C-N-CA	5.90	128.11	120.44
1	jw	20	LEU	CD1-CG-CD2	-5.90	97.81	110.80
1	jy	7	GLN	CA-C-N	5.90	128.11	122.27
1	jy	7	GLN	C-N-CA	5.90	128.11	122.27
1	jy	217	ALA	CA-C-N	5.90	131.20	122.82
1	jy	217	ALA	C-N-CA	5.90	131.20	122.82
1	jC	26	VAL	CA-CB-CG1	5.90	120.43	110.40
1	jF	167	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	jJ	132	ARG	CA-C-N	5.90	128.19	120.28
1	jJ	132	ARG	C-N-CA	5.90	128.19	120.28
1	k3	124	ILE	CA-C-O	-5.90	114.63	119.47
1	kt	164	TYR	N-CA-C	5.90	117.79	111.36
1	kL	212	GLU	N-CA-C	5.90	117.71	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l4	152	ASP	O-C-N	-5.90	114.03	122.41
1	26	101	GLY	CA-C-N	5.90	128.19	120.28
1	26	101	GLY	C-N-CA	5.90	128.19	120.28
1	la	81	ASP	O-C-N	-5.90	115.86	122.12
1	lg	115	ILE	N-CA-CB	5.90	118.13	110.57
1	lw	149	SER	CA-C-N	5.90	128.55	120.46
1	lw	149	SER	C-N-CA	5.90	128.55	120.46
1	lC	87	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	2d	5	ASN	CA-C-N	5.90	132.81	121.54
1	2d	5	ASN	C-N-CA	5.90	132.81	121.54
1	2d	10	MET	CA-C-N	5.90	130.87	123.14
1	2d	10	MET	C-N-CA	5.90	130.87	123.14
1	2d	143	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	2h	86	VAL	N-CA-C	5.90	121.62	109.34
1	2q	66	MET	N-CA-CB	5.90	118.80	110.12
1	2y	98	GLU	N-CA-C	5.90	117.14	109.64
1	2S	82	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	2T	194	ALA	CA-C-O	5.90	127.81	121.55
1	2U	143	ARG	NE-CZ-NH2	5.90	124.51	119.20
1	36	28	GLU	N-CA-C	5.90	117.39	111.07
1	3c	158	LYS	N-CA-C	5.90	119.54	112.93
1	3s	162	ARG	N-CA-CB	5.90	118.91	110.06
1	3w	179	GLN	N-CA-C	5.90	118.47	111.33
1	3P	179	GLN	N-CA-C	5.90	117.71	111.28
1	3X	41	SER	CA-C-N	5.90	128.51	120.54
1	3X	41	SER	C-N-CA	5.90	128.51	120.54
1	40	204	ALA	N-CA-C	5.90	117.71	111.28
1	41	50	GLN	CB-CG-CD	5.90	122.63	112.60
1	4b	159	GLU	CA-C-O	-5.90	115.57	120.71
1	4e	24	VAL	CB-CA-C	5.90	120.11	112.14
1	4n	171	THR	CA-CB-OG1	5.90	118.45	109.60
1	4p	16	SER	CA-C-N	5.90	125.52	119.56
1	4p	16	SER	C-N-CA	5.90	125.52	119.56
1	4K	143	ARG	CA-C-N	5.90	130.04	120.60
1	4K	143	ARG	C-N-CA	5.90	130.04	120.60
1	4L	38	PRO	N-CD-CG	5.90	112.05	103.20
1	5q	80	TRP	N-CA-C	5.90	117.39	111.07
1	5q	143	ARG	CA-C-N	5.90	129.28	120.31
1	5q	143	ARG	C-N-CA	5.90	129.28	120.31
1	5x	180	GLU	CA-C-O	5.90	126.75	119.79
1	5C	150	ILE	O-C-N	-5.90	113.97	122.12
1	5D	131	LYS	CA-C-N	5.90	128.19	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	131	LYS	C-N-CA	5.90	128.19	120.28
1	5M	131	LYS	N-CA-CB	5.90	118.89	110.16
1	6l	157	PRO	CA-C-O	-5.90	109.86	120.60
1	6n	162	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	6z	138	LEU	N-CA-C	5.90	118.19	111.11
1	6A	197	ASP	CA-C-O	5.90	126.81	120.55
1	6T	165	VAL	N-CA-CB	5.90	117.06	110.51
1	6X	200	THR	CA-C-N	5.90	128.12	120.56
1	6X	200	THR	C-N-CA	5.90	128.12	120.56
1	6Y	119	THR	CA-CB-OG1	5.90	118.45	109.60
1	6Z	209	ALA	N-CA-CB	5.90	118.97	110.06
1	74	178	SER	CA-C-N	5.90	130.04	120.60
1	74	178	SER	C-N-CA	5.90	130.04	120.60
1	77	139	ASN	CB-CG-ND2	5.90	125.25	116.40
1	78	100	ARG	CA-C-N	5.90	126.66	119.99
1	78	100	ARG	C-N-CA	5.90	126.66	119.99
1	7m	21	ASN	N-CA-C	5.90	117.71	111.28
1	7p	18	ARG	N-CA-C	5.90	117.39	111.07
1	7A	197	ASP	O-C-N	-5.90	115.89	122.03
1	7E	146	SER	CB-CA-C	-5.90	100.01	109.69
1	7G	161	PHE	CA-CB-CG	-5.90	107.90	113.80
1	8h	144	MET	CA-C-O	5.90	126.81	120.55
1	8i	105	ALA	CA-C-N	5.90	130.48	121.51
1	8i	105	ALA	C-N-CA	5.90	130.48	121.51
1	8j	161	PHE	CA-CB-CG	-5.90	107.90	113.80
1	8X	129	ILE	CA-C-N	5.90	128.19	120.28
1	8X	129	ILE	C-N-CA	5.90	128.19	120.28
1	8Y	113	GLU	O-C-N	-5.90	115.86	122.12
1	9g	71	GLU	O-C-N	-5.90	115.86	122.12
1	9v	102	SER	CA-C-N	5.90	128.67	120.29
1	9v	102	SER	C-N-CA	5.90	128.67	120.29
1	9I	164	TYR	N-CA-C	5.90	117.71	111.28
1	a7	205	LEU	CA-C-N	5.90	131.14	121.87
1	a7	205	LEU	C-N-CA	5.90	131.14	121.87
1	10	134	ILE	CA-C-N	5.90	128.55	120.46
1	10	134	ILE	C-N-CA	5.90	128.55	120.46
1	ao	20	LEU	O-C-N	-5.90	115.86	122.12
1	ar	84	HIS	CA-C-N	5.90	127.22	119.84
1	ar	84	HIS	C-N-CA	5.90	127.22	119.84
1	as	30	LYS	CA-C-N	5.90	132.81	121.54
1	as	30	LYS	C-N-CA	5.90	132.81	121.54
1	at	165	VAL	CA-CB-CG2	-5.90	100.37	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	80	TRP	N-CA-C	5.90	117.71	111.28
1	aK	213	GLU	CA-C-N	5.90	128.67	120.29
1	aK	213	GLU	C-N-CA	5.90	128.67	120.29
1	aL	109	SER	O-C-N	-5.90	115.56	123.23
1	aM	115	ILE	N-CA-CB	5.90	117.46	110.55
1	aN	149	SER	O-C-N	-5.90	115.63	122.95
1	16	80	TRP	CB-CG-CD1	5.90	135.75	126.90
1	bd	126	VAL	O-C-N	-5.90	115.94	121.90
1	br	97	ARG	O-C-N	-5.90	116.07	123.27
1	bK	215	MET	CG-SD-CE	-5.90	87.92	100.90
1	cd	199	LYS	O-C-N	-5.90	115.86	122.12
1	cm	176	GLN	N-CA-C	-5.90	105.84	113.16
1	co	174	ALA	N-CA-C	5.90	119.74	112.54
1	cq	196	PRO	N-CA-C	5.90	122.54	113.75
1	cy	84	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	cH	150	ILE	CA-C-N	5.90	128.19	120.28
1	cH	150	ILE	C-N-CA	5.90	128.19	120.28
1	cJ	58	THR	CA-CB-CG2	5.90	120.53	110.50
1	cX	129	ILE	N-CA-C	5.90	116.09	110.42
1	dd	26	VAL	CA-C-N	5.90	128.00	120.56
1	dd	26	VAL	C-N-CA	5.90	128.00	120.56
1	dd	84	HIS	CG-CD2-NE2	5.90	113.10	107.20
1	dl	13	GLN	CA-C-N	5.90	129.74	121.24
1	dl	13	GLN	C-N-CA	5.90	129.74	121.24
1	dz	112	GLN	CA-C-N	5.90	128.19	120.28
1	dz	112	GLN	C-N-CA	5.90	128.19	120.28
1	ei	150	ILE	CA-C-O	5.90	126.92	119.48
1	1q	31	ALA	CB-CA-C	-5.90	109.78	116.63
1	eG	70	LYS	CA-C-O	5.90	126.81	120.55
1	eK	80	TRP	N-CA-CB	-5.90	101.42	110.16
1	eQ	108	THR	OG1-CB-CG2	-5.90	97.50	109.30
1	eT	7	GLN	CG-CD-NE2	5.90	125.25	116.40
1	eT	8	GLY	CA-C-O	-5.90	114.67	121.46
1	f2	72	THR	CA-C-O	-5.90	114.29	120.55
1	fv	117	TRP	O-C-N	5.90	128.38	122.12
1	fB	2	ILE	CA-C-N	5.90	130.45	122.90
1	fB	2	ILE	C-N-CA	5.90	130.45	122.90
1	fK	189	LEU	CA-C-N	5.90	129.67	120.82
1	fK	189	LEU	C-N-CA	5.90	129.67	120.82
1	e	173	ARG	CG-CD-NE	-5.90	99.01	112.00
1	i	175	GLU	CA-C-O	5.90	126.76	119.97
1	m	22	ALA	N-CA-C	5.90	117.71	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	113	GLU	CB-CG-CD	-5.90	102.57	112.60
1	G	92	GLU	CA-C-O	-5.90	114.27	120.70
1	V	202	LEU	CB-CA-C	5.90	121.36	110.56
1	8	5	ASN	N-CA-CB	5.90	120.30	110.85
1	g9	184	TRP	N-CA-C	5.90	117.38	111.07
1	gp	24	VAL	O-C-N	-5.90	116.15	121.87
1	gp	70	LYS	O-C-N	-5.90	115.99	122.07
1	gO	109	SER	N-CA-C	5.90	118.25	108.99
1	h4	15	ILE	O-C-N	-5.90	116.24	122.67
1	hf	62	HIS	N-CA-CB	-5.90	102.97	111.70
1	hq	135	ILE	CB-CA-C	-5.90	103.02	112.16
1	1N	162	ARG	CG-CD-NE	-5.90	99.02	112.00
1	ia	10	MET	CG-SD-CE	-5.90	87.92	100.90
1	il	21	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	ip	109	SER	CA-C-O	5.90	128.36	121.46
1	iu	5	ASN	CB-CG-OD1	5.90	132.60	120.80
1	1R	144	MET	N-CA-C	5.90	117.71	111.28
1	iL	168	PHE	CA-CB-CG	5.90	119.70	113.80
1	iO	10	MET	O-C-N	-5.90	115.61	122.87
1	jj	214	MET	N-CA-C	5.90	117.71	111.28
1	jA	185	MET	CA-C-O	-5.90	114.30	120.55
1	jD	165	VAL	CA-C-N	5.90	128.19	120.28
1	jD	165	VAL	C-N-CA	5.90	128.19	120.28
1	jR	12	HIS	CA-CB-CG	-5.90	107.90	113.80
1	jS	51	ASP	CA-CB-CG	-5.90	106.70	112.60
1	jV	126	VAL	CA-CB-CG2	5.90	120.43	110.40
1	k4	168	PHE	N-CA-CB	-5.90	101.45	110.01
1	k5	221	VAL	CA-C-N	5.90	130.00	121.44
1	k5	221	VAL	C-N-CA	5.90	130.00	121.44
1	k6	174	ALA	CA-C-N	5.90	129.09	120.71
1	k6	174	ALA	C-N-CA	5.90	129.09	120.71
1	ke	31	ALA	N-CA-C	5.90	117.71	111.28
1	ke	130	TYR	CA-C-N	5.90	128.19	120.28
1	ke	130	TYR	C-N-CA	5.90	128.19	120.28
1	kn	29	GLU	N-CA-C	5.90	117.79	111.36
1	kJ	4	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	kJ	162	ARG	N-CA-C	5.90	118.22	111.02
1	l6	5	ASN	O-C-N	-5.90	115.86	122.12
1	ls	171	THR	CB-CA-C	-5.90	101.00	110.79
1	2t	23	TRP	CA-C-N	5.90	128.80	120.42
1	2t	23	TRP	C-N-CA	5.90	128.80	120.42
1	2z	17	PRO	N-CA-CB	5.90	108.81	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2G	197	ASP	N-CA-C	-5.90	104.76	111.07
1	3m	132	ARG	NE-CZ-NH2	5.90	124.51	119.20
1	3t	25	LYS	N-CA-C	5.90	117.71	111.28
1	3x	21	ASN	CB-CG-ND2	5.90	125.25	116.40
1	3U	181	VAL	N-CA-C	5.90	116.64	110.62
1	43	24	VAL	CA-CB-CG1	-5.90	100.37	110.40
1	45	103	ASP	CA-C-N	5.90	128.54	120.46
1	45	103	ASP	C-N-CA	5.90	128.54	120.46
1	4d	116	GLY	O-C-N	-5.90	116.29	122.13
1	4G	105	ALA	CA-C-O	5.90	126.64	119.38
1	4K	109	SER	CA-C-O	5.90	127.80	120.54
1	54	216	THR	CA-C-O	5.90	125.77	119.34
1	59	45	GLU	O-C-N	-5.90	114.74	122.59
1	5v	72	THR	CB-CA-C	-5.90	101.62	110.88
1	5w	95	GLN	N-CA-C	5.90	118.82	110.50
1	6j	101	GLY	CA-C-N	5.90	128.78	120.28
1	6j	101	GLY	C-N-CA	5.90	128.78	120.28
1	6l	33	SER	O-C-N	-5.90	117.34	121.65
1	6x	184	TRP	CA-C-N	5.90	128.19	120.28
1	6x	184	TRP	C-N-CA	5.90	128.19	120.28
1	6z	215	MET	N-CA-CB	5.90	120.02	110.40
1	6F	104	ILE	O-C-N	-5.90	115.75	121.83
1	6N	184	TRP	CB-CG-CD2	5.90	135.06	126.80
1	7b	71	GLU	CA-C-O	5.90	126.77	120.10
1	7s	118	MET	CG-SD-CE	-5.90	87.92	100.90
1	7L	219	GLN	CA-C-N	5.90	131.93	122.25
1	7L	219	GLN	C-N-CA	5.90	131.93	122.25
1	7W	89	GLY	CA-C-N	5.90	127.22	119.84
1	7W	89	GLY	C-N-CA	5.90	127.22	119.84
1	83	62	HIS	ND1-CG-CD2	5.90	112.00	106.10
1	8w	14	ALA	N-CA-C	5.90	118.38	110.35
1	8V	15	ILE	CA-CB-CG1	5.90	120.43	110.40
1	8W	84	HIS	CB-CA-C	-5.90	104.33	110.17
1	9x	163	ASP	CA-C-N	5.90	128.67	120.29
1	9x	163	ASP	C-N-CA	5.90	128.67	120.29
1	9x	226	HIS	CG-CD2-NE2	5.90	113.10	107.20
1	9C	133	TRP	CA-C-O	5.90	127.02	120.82
1	9Z	81	ASP	O-C-N	-5.90	115.32	122.22
1	a4	10	MET	O-C-N	-5.90	116.29	122.96
1	af	170	LYS	CA-C-O	5.90	127.02	120.82
1	aw	71	GLU	CA-C-N	5.90	128.11	120.44
1	aw	71	GLU	C-N-CA	5.90	128.11	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	az	86	VAL	O-C-N	-5.90	116.26	122.81
1	aC	27	VAL	N-CA-C	5.90	116.68	110.72
1	aG	172	LEU	CA-C-O	5.90	127.00	120.63
1	aJ	219	GLN	N-CA-CB	5.90	119.89	110.16
1	bl	54	THR	N-CA-C	5.90	117.71	111.28
1	bp	177	ALA	O-C-N	-5.90	115.69	122.89
1	bA	12	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	bA	92	GLU	N-CA-C	5.90	118.04	109.84
1	bN	161	PHE	O-C-N	-5.90	114.74	122.59
1	bR	84	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	c9	173	ARG	CA-C-O	5.90	127.02	120.82
1	ce	109	SER	O-C-N	-5.90	116.28	123.30
1	ci	134	ILE	N-CA-C	5.90	116.08	110.42
1	1e	41	SER	CA-C-N	5.90	128.19	120.28
1	1e	41	SER	C-N-CA	5.90	128.19	120.28
1	cq	13	GLN	OE1-CD-NE2	5.90	128.50	122.60
1	cy	69	LEU	CA-C-O	5.90	127.02	120.82
1	cO	229	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	cV	135	ILE	CA-C-N	5.90	129.28	120.31
1	cV	135	ILE	C-N-CA	5.90	129.28	120.31
1	cX	79	GLU	CA-C-N	5.90	128.19	120.28
1	cX	79	GLU	C-N-CA	5.90	128.19	120.28
1	d7	195	ASN	O-C-N	5.90	126.22	121.38
1	da	76	GLU	N-CA-CB	5.90	119.42	110.28
1	dh	163	ASP	N-CA-CB	-5.90	100.48	110.51
1	dB	41	SER	O-C-N	-5.90	115.99	122.07
1	dB	141	ILE	N-CA-C	5.90	116.64	110.62
1	dG	155	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	dN	114	GLN	N-CA-C	5.90	117.71	111.28
1	dO	172	LEU	O-C-N	-5.90	115.87	122.12
1	dY	135	ILE	CA-C-N	5.90	128.51	120.54
1	dY	135	ILE	C-N-CA	5.90	128.51	120.54
1	1o	162	ARG	N-CA-C	5.90	121.05	111.37
1	e4	49	PRO	O-C-N	5.90	129.31	122.17
1	e8	154	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	ef	189	LEU	CA-C-N	5.90	128.19	120.28
1	ef	189	LEU	C-N-CA	5.90	128.19	120.28
1	ek	109	SER	N-CA-C	5.90	118.32	110.53
1	1q	226	HIS	CA-CB-CG	5.90	119.70	113.80
1	es	6	LEU	CA-C-N	5.90	128.11	120.44
1	es	6	LEU	C-N-CA	5.90	128.11	120.44
1	es	10	MET	N-CA-CB	5.90	118.62	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eE	56	LEU	O-C-N	-5.90	115.87	122.12
1	eG	199	LYS	O-C-N	5.90	128.38	122.12
1	eS	80	TRP	CA-C-N	5.90	128.19	120.28
1	eS	80	TRP	C-N-CA	5.90	128.19	120.28
1	eV	149	SER	O-C-N	-5.90	113.34	122.61
1	f6	38	PRO	N-CA-C	-5.90	105.84	113.57
1	fr	150	ILE	O-C-N	-5.90	116.15	121.87
1	fw	168	PHE	CA-C-N	5.90	128.67	120.29
1	fw	168	PHE	C-N-CA	5.90	128.67	120.29
1	fH	47	ALA	N-CA-C	5.90	119.01	110.28
1	fS	17	PRO	CA-C-N	5.90	128.19	120.28
1	fS	17	PRO	C-N-CA	5.90	128.19	120.28
1	g0	124	ILE	N-CA-CB	5.90	118.27	111.31
1	a	219	GLN	CA-C-O	5.90	127.04	120.43
1	f	180	GLU	N-CA-C	5.90	117.38	111.07
1	u	118	MET	N-CA-C	5.90	118.66	111.82
1	v	37	ILE	O-C-N	-5.90	114.37	121.10
1	v	162	ARG	CA-C-N	5.90	128.19	120.28
1	v	162	ARG	C-N-CA	5.90	128.19	120.28
1	E	212	GLU	O-C-N	-5.90	115.95	122.09
1	K	124	ILE	CB-CA-C	-5.90	105.45	110.94
1	gd	23	TRP	N-CA-C	-5.90	104.76	111.07
1	gk	132	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	gD	162	ARG	N-CA-C	5.90	123.37	110.80
1	gY	142	VAL	CA-C-N	5.90	128.19	120.28
1	gY	142	VAL	C-N-CA	5.90	128.19	120.28
1	hp	133	TRP	CB-CG-CD1	-5.90	118.05	126.90
1	hy	103	ASP	N-CA-CB	5.90	118.62	110.07
1	1L	84	HIS	CG-CD2-NE2	5.90	113.10	107.20
1	1L	135	ILE	N-CA-C	5.90	116.64	110.62
1	ij	33	SER	CA-C-N	5.90	125.58	119.56
1	ij	33	SER	C-N-CA	5.90	125.58	119.56
1	iv	4	GLN	N-CA-CB	5.90	120.46	110.49
1	iv	31	ALA	O-C-N	-5.90	114.75	122.59
1	1V	141	ILE	CA-C-N	5.90	127.99	120.56
1	1V	141	ILE	C-N-CA	5.90	127.99	120.56
1	k9	145	TYR	CA-CB-CG	-5.90	103.28	113.90
1	kf	12	HIS	CA-CB-CG	-5.90	107.90	113.80
1	kL	36	VAL	N-CA-C	5.90	117.34	110.62
1	24	55	MET	CG-SD-CE	-5.90	87.92	100.90
1	le	136	LEU	CA-C-O	5.90	126.80	120.55
1	lt	130	TYR	CA-C-N	5.90	128.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lt	130	TYR	C-N-CA	5.90	128.18	120.28
1	lD	121	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	lG	153	ILE	N-CA-CB	5.90	118.07	110.99
1	2q	136	LEU	CA-C-N	5.90	127.71	120.22
1	2q	136	LEU	C-N-CA	5.90	127.71	120.22
1	2u	27	VAL	CA-C-O	-5.90	114.81	120.95
1	2w	113	GLU	N-CA-C	5.90	117.38	111.07
1	2F	27	VAL	N-CA-C	5.90	118.42	111.05
1	2N	185	MET	N-CA-C	5.90	117.79	111.36
1	2W	24	VAL	N-CA-CB	5.90	117.84	110.47
1	3I	126	VAL	O-C-N	-5.90	116.11	121.89
1	3J	80	TRP	CD2-CE3-CZ3	5.90	126.27	118.60
1	3S	11	VAL	N-CA-C	5.90	117.03	109.30
1	4f	19	THR	CA-CB-CG2	5.90	120.53	110.50
1	4u	177	ALA	CB-CA-C	-5.90	99.93	109.72
1	4V	129	ILE	N-CA-C	5.90	116.64	110.62
1	4Y	50	GLN	O-C-N	-5.90	115.95	122.09
1	5t	173	ARG	O-C-N	-5.90	115.77	122.08
1	5t	174	ALA	CA-C-N	5.90	129.49	121.05
1	5t	174	ALA	C-N-CA	5.90	129.49	121.05
1	5I	148	THR	N-CA-C	-5.90	100.10	109.07
1	5Q	163	ASP	N-CA-CB	-5.90	101.41	110.20
1	7f	110	THR	CA-C-N	5.90	128.77	120.28
1	7f	110	THR	C-N-CA	5.90	128.77	120.28
1	7o	17	PRO	N-CA-C	-5.90	105.84	113.57
1	7F	96	MET	O-C-N	-5.90	115.72	122.68
1	9C	78	ALA	CA-C-O	-5.90	114.17	120.42
1	9X	121	ASN	CA-CB-CG	5.90	118.50	112.60
1	aQ	157	PRO	N-CA-CB	5.90	109.76	103.39
1	aQ	226	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	aR	155	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	15	206	GLY	CA-C-N	5.90	127.21	119.84
1	15	206	GLY	C-N-CA	5.90	127.21	119.84
1	b3	64	ALA	N-CA-C	5.90	117.79	111.36
1	b5	84	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	bA	178	SER	CA-C-O	-5.90	115.13	121.56
1	co	152	ASP	N-CA-C	5.90	119.54	112.93
1	1f	39	MET	N-CA-C	5.90	117.38	111.07
1	cA	140	LYS	O-C-N	-5.90	115.87	122.12
1	dY	9	GLN	N-CA-C	5.90	118.78	110.23
1	ep	156	GLY	N-CA-C	5.90	119.08	112.00
1	eV	63	GLN	OE1-CD-NE2	-5.90	116.70	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fd	13	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	fn	160	PRO	N-CA-C	5.90	120.88	111.26
1	B	80	TRP	CB-CG-CD2	5.90	135.06	126.80
1	C	115	ILE	CA-C-N	5.90	126.66	119.99
1	C	115	ILE	C-N-CA	5.90	126.66	119.99
1	O	143	ARG	CD-NE-CZ	5.90	132.66	124.40
1	P	82	ARG	CA-CB-CG	5.90	125.90	114.10
1	P	126	VAL	N-CA-C	5.90	116.55	110.36
1	U	199	LYS	N-CA-C	5.90	117.71	111.28
1	gd	54	THR	CA-C-N	5.90	128.11	120.44
1	gd	54	THR	C-N-CA	5.90	128.11	120.44
1	gn	180	GLU	CA-C-O	5.90	126.67	120.42
1	gA	121	ASN	CA-CB-CG	-5.90	106.70	112.60
1	gR	41	SER	CA-C-N	5.90	128.11	120.44
1	gR	41	SER	C-N-CA	5.90	128.11	120.44
1	gR	204	ALA	N-CA-C	5.90	117.38	111.07
1	h0	161	PHE	CA-C-N	5.90	128.18	120.28
1	h0	161	PHE	C-N-CA	5.90	128.18	120.28
1	h8	42	ALA	CA-C-O	5.90	126.67	120.42
1	hh	74	ASN	CA-CB-CG	5.90	118.50	112.60
1	ho	84	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	hq	21	ASN	CA-C-N	5.90	128.18	120.28
1	hq	21	ASN	C-N-CA	5.90	128.18	120.28
1	hy	223	GLY	CA-C-O	-5.90	113.09	121.52
1	hA	195	ASN	CA-C-N	5.90	127.21	119.84
1	hA	195	ASN	C-N-CA	5.90	127.21	119.84
1	hH	84	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	i6	81	ASP	CA-C-N	5.90	128.18	120.28
1	i6	81	ASP	C-N-CA	5.90	128.18	120.28
1	i7	200	THR	CA-C-N	5.90	127.99	120.56
1	i7	200	THR	C-N-CA	5.90	127.99	120.56
1	in	12	HIS	CA-CB-CG	5.90	119.70	113.80
1	iB	226	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	iH	2	ILE	N-CA-CB	5.90	118.07	110.99
1	iP	226	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	jd	117	TRP	CA-C-O	-5.90	113.44	120.10
1	jn	18	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	jn	144	MET	CG-SD-CE	-5.90	87.93	100.90
1	jq	171	THR	CA-C-O	-5.90	114.30	120.55
1	jB	198	CYS	CA-C-N	5.90	128.18	120.28
1	jB	198	CYS	C-N-CA	5.90	128.18	120.28
1	jF	11	VAL	CA-C-O	-5.90	113.53	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jG	86	VAL	CA-C-N	5.90	131.35	122.68
1	jG	86	VAL	C-N-CA	5.90	131.35	122.68
1	jS	146	SER	O-C-N	-5.90	116.30	121.31
1	1Z	163	ASP	CA-C-N	5.90	128.11	120.44
1	1Z	163	ASP	C-N-CA	5.90	128.11	120.44
1	k4	3	VAL	CA-C-N	5.90	129.09	120.71
1	k4	3	VAL	C-N-CA	5.90	129.09	120.71
1	k8	10	MET	N-CA-C	5.90	123.36	110.80
1	kd	208	ALA	CA-C-N	5.90	129.75	121.02
1	kd	208	ALA	C-N-CA	5.90	129.75	121.02
1	kw	115	ILE	N-CA-C	5.90	117.34	110.62
1	ky	29	GLU	CA-C-O	-5.90	113.42	120.56
1	kQ	13	GLN	O-C-N	-5.90	116.08	123.27
1	kQ	129	ILE	O-C-N	5.90	127.67	121.89
1	kT	119	THR	N-CA-CB	5.90	119.22	110.49
1	kT	205	LEU	CA-C-N	5.90	131.13	121.87
1	kT	205	LEU	C-N-CA	5.90	131.13	121.87
1	kY	69	LEU	O-C-N	-5.90	116.00	122.07
1	l2	15	ILE	CA-CB-CG1	5.90	120.43	110.40
1	lc	176	GLN	N-CA-CB	-5.90	100.50	110.41
1	lh	91	ILE	CA-CB-CG1	5.90	120.43	110.40
1	lh	214	MET	N-CA-CB	-5.90	101.45	110.12
1	lq	12	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	ls	16	SER	CA-C-N	5.90	127.21	119.84
1	ls	16	SER	C-N-CA	5.90	127.21	119.84
1	ly	213	GLU	CA-C-N	5.90	128.66	120.29
1	ly	213	GLU	C-N-CA	5.90	128.66	120.29
1	lH	7	GLN	N-CA-C	-5.90	100.33	109.24
1	lQ	77	ALA	CA-C-N	5.90	128.18	120.28
1	lQ	77	ALA	C-N-CA	5.90	128.18	120.28
1	2d	20	LEU	N-CA-C	5.90	117.71	111.28
1	2i	13	GLN	CA-C-N	5.90	130.10	121.31
1	2i	13	GLN	C-N-CA	5.90	130.10	121.31
1	2r	181	VAL	O-C-N	5.90	127.59	121.87
1	2r	211	LEU	N-CA-C	5.90	117.71	111.28
1	2v	122	PRO	N-CA-CB	-5.90	96.11	102.60
1	2x	67	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	2D	207	PRO	CA-C-N	5.90	128.18	120.28
1	2D	207	PRO	C-N-CA	5.90	128.18	120.28
1	2K	20	LEU	O-C-N	-5.90	114.32	122.46
1	2R	62	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	2Y	106	GLY	CA-C-N	5.90	128.50	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	106	GLY	C-N-CA	5.90	128.50	120.54
1	31	2	ILE	CA-CB-CG1	5.90	120.43	110.40
1	33	23	TRP	N-CA-CB	5.90	118.78	109.82
1	3l	126	VAL	O-C-N	5.90	127.84	121.94
1	3r	85	PRO	CA-C-O	-5.90	114.62	121.34
1	3v	202	LEU	N-CA-C	5.90	117.79	111.36
1	3K	120	HIS	N-CA-CB	-5.90	101.83	110.26
1	3S	196	PRO	CA-C-N	5.90	128.18	120.28
1	3S	196	PRO	C-N-CA	5.90	128.18	120.28
1	46	87	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	4i	198	CYS	CA-C-N	5.90	128.18	120.28
1	4i	198	CYS	C-N-CA	5.90	128.18	120.28
1	4t	95	GLN	CA-C-N	5.90	129.49	120.82
1	4t	95	GLN	C-N-CA	5.90	129.49	120.82
1	4A	143	ARG	N-CA-C	5.90	117.71	111.28
1	4P	141	ILE	CA-C-N	5.90	128.54	120.46
1	4P	141	ILE	C-N-CA	5.90	128.54	120.46
1	4U	142	VAL	CA-C-N	5.90	130.04	120.60
1	4U	142	VAL	C-N-CA	5.90	130.04	120.60
1	5f	120	HIS	CG-CD2-NE2	5.90	113.10	107.20
1	5p	69	LEU	N-CA-C	5.90	118.22	111.02
1	5p	213	GLU	CA-C-O	-5.90	114.30	120.55
1	5K	171	THR	O-C-N	5.90	128.37	122.12
1	60	135	ILE	O-C-N	5.90	127.59	121.87
1	6b	139	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	6d	100	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	6l	11	VAL	CA-C-O	5.90	126.58	120.39
1	6n	73	ILE	N-CA-CB	5.90	118.12	110.57
1	6M	24	VAL	CB-CA-C	5.90	119.43	111.88
1	71	138	LEU	N-CA-C	-5.90	104.44	111.69
1	7o	13	GLN	CB-CG-CD	5.90	122.63	112.60
1	7y	129	ILE	CB-CA-C	5.90	119.75	112.02
1	7z	114	GLN	N-CA-C	5.90	117.71	111.28
1	7D	228	ALA	O-C-N	-5.90	115.62	122.87
1	7X	138	LEU	CA-C-N	5.90	128.11	120.44
1	7X	138	LEU	C-N-CA	5.90	128.11	120.44
1	7Z	12	HIS	CB-CG-CD2	-5.90	123.53	131.20
1	83	163	ASP	CA-C-N	5.90	128.18	120.28
1	83	163	ASP	C-N-CA	5.90	128.18	120.28
1	8q	142	VAL	N-CA-C	5.90	116.08	110.42
1	8x	9	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	8C	94	GLY	CA-C-O	5.90	126.33	119.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8G	57	ASN	CA-CB-CG	-5.90	106.70	112.60
1	8P	66	MET	N-CA-C	5.90	117.38	111.07
1	8Q	195	ASN	CA-C-N	5.90	127.21	119.84
1	8Q	195	ASN	C-N-CA	5.90	127.21	119.84
1	8Y	120	HIS	O-C-N	-5.90	116.07	122.79
1	9f	109	SER	CA-C-O	5.90	126.86	120.32
1	9q	37	ILE	N-CA-CB	5.90	114.22	110.50
1	9s	21	ASN	N-CA-CB	5.90	118.79	110.12
1	aw	109	SER	CA-C-O	5.90	128.42	121.58
1	aB	183	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	aQ	70	LYS	N-CA-C	5.90	117.38	111.07
1	aX	8	GLY	CA-C-O	5.90	128.81	122.03
1	17	164	TYR	CA-C-O	-5.90	114.63	120.82
1	bz	103	ASP	N-CA-C	5.90	117.79	111.36
1	19	87	HIS	N-CA-C	5.90	118.78	110.23
1	cv	184	TRP	O-C-N	-5.90	115.66	122.03
1	1f	11	VAL	O-C-N	-5.90	116.23	122.95
1	cX	114	GLN	CA-C-N	5.90	128.54	120.46
1	cX	114	GLN	C-N-CA	5.90	128.54	120.46
1	du	167	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	dx	87	HIS	CG-CD2-NE2	5.90	113.10	107.20
1	1l	50	GLN	N-CA-C	5.90	117.38	111.07
1	dF	97	ARG	NH1-CZ-NH2	-5.90	111.64	119.30
1	dJ	13	GLN	CA-C-O	5.90	127.90	121.06
1	dK	108	THR	O-C-N	-5.90	115.00	122.26
1	dN	5	ASN	N-CA-CB	-5.90	101.41	110.85
1	dS	109	SER	O-C-N	-5.90	115.73	123.16
1	dY	34	PRO	CA-C-N	5.90	128.99	120.38
1	dY	34	PRO	C-N-CA	5.90	128.99	120.38
1	e1	63	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	e2	67	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	eh	192	GLN	OE1-CD-NE2	-5.90	116.70	122.60
1	ey	204	ALA	CA-C-O	-5.90	113.19	119.97
1	eG	69	LEU	CA-C-N	5.90	128.18	120.28
1	eG	69	LEU	C-N-CA	5.90	128.18	120.28
1	1u	155	GLN	OE1-CD-NE2	5.90	128.50	122.60
1	f4	120	HIS	ND1-CE1-NE2	5.90	114.30	108.40
1	f6	128	GLU	N-CA-C	5.90	117.38	111.07
1	f8	40	PHE	CA-C-O	-5.90	114.30	120.55
1	fh	2	ILE	CA-C-O	5.90	127.02	120.59
1	fk	90	PRO	N-CA-CB	-5.90	95.54	103.15
1	fp	164	TYR	CA-C-O	5.90	126.76	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	32	PHE	CA-CB-CG	-5.90	107.90	113.80
1	fI	112	GLN	CG-CD-NE2	-5.90	107.55	116.40
1	fM	108	THR	CA-CB-OG1	5.90	118.45	109.60
1	fU	65	ALA	O-C-N	-5.90	116.00	122.07
1	fU	176	GLN	O-C-N	-5.90	115.24	122.20
1	g1	87	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
1	g3	89	GLY	N-CA-C	5.90	119.36	112.10
1	g6	59	VAL	CB-CA-C	-5.90	104.86	111.23
1	i	88	ALA	O-C-N	-5.90	116.33	122.94
1	z	124	ILE	O-C-N	-5.90	114.38	121.10
1	go	194	ALA	CA-C-N	5.90	128.59	120.39
1	go	194	ALA	C-N-CA	5.90	128.59	120.39
1	gR	214	MET	CB-CA-C	-5.90	100.83	110.85
1	gV	139	ASN	CA-CB-CG	5.90	118.50	112.60
1	hp	190	LEU	O-C-N	-5.90	116.00	122.07
1	hG	82	ARG	CA-C-O	5.90	126.80	120.55
1	hV	17	PRO	CA-C-N	5.90	128.46	120.38
1	hV	17	PRO	C-N-CA	5.90	128.46	120.38
1	hZ	101	GLY	N-CA-C	5.90	120.02	112.83
1	1N	177	ALA	CA-C-N	5.90	129.21	120.90
1	1N	177	ALA	C-N-CA	5.90	129.21	120.90
1	j2	108	THR	N-CA-C	5.90	120.17	112.92
1	j9	65	ALA	CA-C-O	-5.90	114.59	120.90
1	jB	63	GLN	N-CA-C	5.90	118.49	111.71
1	jC	31	ALA	O-C-N	-5.90	114.75	122.59
1	jF	53	ASN	OD1-CG-ND2	-5.90	116.70	122.60
1	22	152	ASP	CA-C-O	5.90	126.46	119.56
1	kL	93	PRO	N-CA-C	5.90	120.34	111.14
1	kM	114	GLN	N-CA-C	5.90	117.71	111.28
1	lr	88	ALA	N-CA-CB	5.90	118.64	109.97
1	28	8	GLY	CA-C-O	-5.90	115.30	121.67
1	2V	140	LYS	N-CA-C	5.90	117.71	111.28
1	3I	75	GLU	CA-C-N	5.90	128.46	120.38
1	3I	75	GLU	C-N-CA	5.90	128.46	120.38
1	3M	75	GLU	CA-C-N	5.90	128.66	120.29
1	3M	75	GLU	C-N-CA	5.90	128.66	120.29
1	3N	71	GLU	CA-C-N	5.90	128.46	120.44
1	3N	71	GLU	C-N-CA	5.90	128.46	120.44
1	3Z	24	VAL	CA-C-N	5.90	128.66	120.29
1	3Z	24	VAL	C-N-CA	5.90	128.66	120.29
1	42	167	ARG	CA-C-N	5.90	130.56	121.19
1	42	167	ARG	C-N-CA	5.90	130.56	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	98	GLU	O-C-N	-5.90	115.70	121.18
1	4s	103	ASP	CA-C-N	5.90	127.99	120.56
1	4s	103	ASP	C-N-CA	5.90	127.99	120.56
1	4C	143	ARG	NE-CZ-NH2	-5.90	113.89	119.20
1	4S	33	SER	CA-C-O	-5.90	114.21	120.28
1	5i	122	PRO	CA-C-N	5.90	125.83	119.76
1	5i	122	PRO	C-N-CA	5.90	125.83	119.76
1	5Z	181	VAL	N-CA-C	5.90	116.63	110.62
1	63	87	HIS	CA-CB-CG	5.90	119.70	113.80
1	6v	129	ILE	CA-C-N	5.90	128.10	120.44
1	6v	129	ILE	C-N-CA	5.90	128.10	120.44
1	6D	87	HIS	CA-CB-CG	5.90	119.70	113.80
1	7l	66	MET	CA-C-O	5.90	126.63	119.38
1	7x	214	MET	N-CA-C	5.90	117.38	111.07
1	7Q	168	PHE	CA-C-O	-5.90	114.81	121.00
1	8d	97	ARG	N-CA-C	5.90	118.37	110.35
1	8z	41	SER	CA-C-N	5.90	128.18	120.28
1	8z	41	SER	C-N-CA	5.90	128.18	120.28
1	8H	25	LYS	N-CA-C	5.90	117.79	111.36
1	8K	137	GLY	N-CA-C	5.90	119.34	112.50
1	8M	54	THR	N-CA-CB	5.90	118.79	110.12
1	8S	195	ASN	N-CA-C	5.90	117.13	109.64
1	9p	149	SER	CA-C-N	5.90	129.97	120.30
1	9p	149	SER	C-N-CA	5.90	129.97	120.30
1	9w	139	ASN	N-CA-CB	-5.90	101.22	110.30
1	9N	161	PHE	CA-C-N	5.90	128.18	120.28
1	9N	161	PHE	C-N-CA	5.90	128.18	120.28
1	9U	118	MET	N-CA-C	5.90	118.66	111.82
1	ak	118	MET	N-CA-C	5.90	119.57	112.38
1	bj	131	LYS	O-C-N	-5.90	115.96	122.09
1	bJ	176	GLN	O-C-N	5.90	129.71	122.34
1	bJ	211	LEU	CA-C-O	-5.90	114.32	120.92
1	bY	59	VAL	N-CA-C	5.90	116.67	109.30
1	c2	76	GLU	CA-C-N	5.90	128.10	120.44
1	c2	76	GLU	C-N-CA	5.90	128.10	120.44
1	cv	150	ILE	N-CA-C	5.90	121.60	109.34
1	cB	204	ALA	CA-C-N	5.90	129.27	120.31
1	cB	204	ALA	C-N-CA	5.90	129.27	120.31
1	cQ	27	VAL	CA-C-N	5.90	128.18	120.28
1	cQ	27	VAL	C-N-CA	5.90	128.18	120.28
1	cY	22	ALA	CA-C-O	5.90	126.80	120.55
1	dy	95	GLN	N-CA-C	-5.90	101.28	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dA	185	MET	CA-C-O	-5.90	114.58	121.07
1	1m	15	ILE	N-CA-C	5.90	117.94	109.51
1	e3	128	GLU	CA-C-N	5.90	128.54	120.46
1	e3	128	GLU	C-N-CA	5.90	128.54	120.46
1	eP	212	GLU	O-C-N	-5.90	115.87	122.12
1	eZ	7	GLN	OE1-CD-NE2	5.90	128.50	122.60
1	eZ	124	ILE	CA-C-O	-5.90	114.90	119.20
1	fa	188	THR	CA-CB-OG1	5.90	118.44	109.60
1	0	172	LEU	N-CA-C	5.90	117.71	111.28
1	e	169	TYR	N-CA-C	5.90	117.71	111.28
1	j	141	ILE	CB-CA-C	-5.90	104.08	112.22
1	gb	82	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	gy	142	VAL	CA-C-N	5.89	128.50	120.54
1	gy	142	VAL	C-N-CA	5.89	128.50	120.54
1	gz	136	LEU	CA-C-N	5.89	126.52	119.98
1	gz	136	LEU	C-N-CA	5.89	126.52	119.98
1	gB	54	THR	N-CA-C	5.89	117.71	111.28
1	gF	143	ARG	CA-C-N	5.89	128.18	120.28
1	gF	143	ARG	C-N-CA	5.89	128.18	120.28
1	gN	69	LEU	O-C-N	-5.89	115.87	122.12
1	h0	165	VAL	CA-C-O	5.89	127.08	120.95
1	he	92	GLU	N-CA-C	5.89	117.13	109.64
1	hh	61	GLY	CA-C-N	5.89	132.80	121.54
1	hh	61	GLY	C-N-CA	5.89	132.80	121.54
1	1J	108	THR	CA-CB-OG1	5.89	118.44	109.60
1	hG	97	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	hP	148	THR	CA-C-N	5.89	132.80	121.54
1	hP	148	THR	C-N-CA	5.89	132.80	121.54
1	hX	54	THR	OG1-CB-CG2	-5.89	97.51	109.30
1	hY	69	LEU	CA-C-O	5.89	127.01	120.82
1	hZ	227	LYS	N-CA-C	5.89	120.09	113.02
1	i0	180	GLU	CA-C-N	5.89	128.54	120.46
1	i0	180	GLU	C-N-CA	5.89	128.54	120.46
1	i8	21	ASN	CA-C-O	5.89	126.80	120.55
1	ic	100	ARG	CA-C-N	5.89	126.65	119.99
1	ic	100	ARG	C-N-CA	5.89	126.65	119.99
1	ik	84	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	ir	200	THR	N-CA-C	5.89	119.73	112.54
1	iH	46	GLY	CA-C-N	5.89	129.21	120.90
1	iH	46	GLY	C-N-CA	5.89	129.21	120.90
1	iJ	9	GLN	CG-CD-NE2	-5.89	107.56	116.40
1	iK	21	ASN	CA-CB-CG	-5.89	106.71	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iM	164	TYR	CA-C-O	5.89	127.21	120.90
1	iN	155	GLN	O-C-N	-5.89	116.05	123.12
1	iR	27	VAL	N-CA-CB	-5.89	103.65	110.55
1	iW	111	LEU	O-C-N	-5.89	116.00	122.07
1	j8	50	GLN	N-CA-C	5.89	117.70	111.28
1	j8	215	MET	N-CA-C	5.89	117.78	111.36
1	jn	50	GLN	CA-C-N	5.89	128.46	120.44
1	jn	50	GLN	C-N-CA	5.89	128.46	120.44
1	jp	120	HIS	O-C-N	-5.89	115.46	122.65
1	jr	78	ALA	CA-C-N	5.89	128.50	120.54
1	jr	78	ALA	C-N-CA	5.89	128.50	120.54
1	jr	97	ARG	N-CA-CB	-5.89	101.49	110.45
1	jE	87	HIS	ND1-CE1-NE2	5.89	114.30	108.40
1	jE	125	PRO	CA-C-O	-5.89	114.94	123.07
1	jP	112	GLN	N-CA-C	5.89	117.71	111.28
1	jW	113	GLU	CA-C-N	5.89	128.10	120.44
1	jW	113	GLU	C-N-CA	5.89	128.10	120.44
1	kb	20	LEU	CA-C-O	-5.89	114.17	120.42
1	21	172	LEU	CA-C-O	5.89	126.76	120.10
1	kk	57	ASN	OD1-CG-ND2	-5.89	116.70	122.60
1	kD	142	VAL	O-C-N	5.89	127.69	121.91
1	kM	19	THR	CA-C-O	-5.89	114.30	120.55
1	kZ	202	LEU	N-CA-C	5.89	117.70	111.28
1	l6	214	MET	CA-C-O	5.89	126.62	119.31
1	lk	85	PRO	CA-C-N	5.89	130.71	123.10
1	lk	85	PRO	C-N-CA	5.89	130.71	123.10
1	ln	33	SER	CA-C-N	5.89	126.04	119.32
1	ln	33	SER	C-N-CA	5.89	126.04	119.32
1	lo	143	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	ls	217	ALA	N-CA-C	5.89	118.74	109.96
1	2l	68	MET	N-CA-CB	5.89	118.90	110.06
1	2p	178	SER	O-C-N	-5.89	114.75	122.59
1	2q	55	MET	CA-C-N	5.89	128.18	120.28
1	2q	55	MET	C-N-CA	5.89	128.18	120.28
1	2N	139	ASN	CA-CB-CG	-5.89	106.71	112.60
1	3f	200	THR	O-C-N	-5.89	115.87	122.12
1	3f	209	ALA	N-CA-C	5.89	118.37	110.35
1	3h	65	ALA	CA-C-N	5.89	128.66	120.29
1	3h	65	ALA	C-N-CA	5.89	128.66	120.29
1	3h	96	MET	N-CA-C	5.89	119.36	110.64
1	3k	145	TYR	O-C-N	5.89	128.22	122.09
1	3k	168	PHE	N-CA-CB	-5.89	101.22	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3A	149	SER	N-CA-C	5.89	118.31	110.53
1	3B	27	VAL	O-C-N	-5.89	116.11	121.89
1	3B	182	LYS	CA-C-N	5.89	128.18	120.28
1	3B	182	LYS	C-N-CA	5.89	128.18	120.28
1	3D	16	SER	CA-C-N	5.89	125.59	119.05
1	3D	16	SER	C-N-CA	5.89	125.59	119.05
1	3M	92	GLU	CA-C-N	5.89	127.21	119.84
1	3M	92	GLU	C-N-CA	5.89	127.21	119.84
1	45	22	ALA	O-C-N	5.89	128.37	122.12
1	47	42	ALA	CA-C-O	5.89	126.75	119.79
1	4e	154	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	4p	91	ILE	N-CA-CB	5.89	119.27	111.25
1	4F	119	THR	O-C-N	-5.89	115.01	122.26
1	4P	133	TRP	N-CA-C	-5.89	104.94	111.36
1	57	131	LYS	CG-CD-CE	5.89	124.86	111.30
1	5r	46	GLY	CA-C-O	5.89	126.32	119.13
1	5x	143	ARG	N-CA-C	5.89	117.70	111.28
1	5z	97	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	5H	39	MET	CA-C-O	5.89	126.80	120.55
1	5K	15	ILE	CA-CB-CG1	5.89	120.42	110.40
1	5M	85	PRO	N-CA-C	5.89	120.48	111.11
1	5R	214	MET	CA-C-N	5.89	128.18	120.28
1	5R	214	MET	C-N-CA	5.89	128.18	120.28
1	61	39	MET	CG-SD-CE	-5.89	87.93	100.90
1	61	214	MET	N-CA-C	5.89	117.71	111.28
1	64	43	LEU	O-C-N	-5.89	114.43	122.33
1	6e	31	ALA	O-C-N	-5.89	114.75	122.59
1	6f	195	ASN	CA-CB-CG	5.89	118.49	112.60
1	6h	2	ILE	N-CA-C	5.89	116.36	108.11
1	6o	43	LEU	CA-C-N	5.89	128.77	120.28
1	6o	43	LEU	C-N-CA	5.89	128.77	120.28
1	6q	171	THR	N-CA-CB	5.89	118.79	110.12
1	6E	191	VAL	N-CA-C	5.89	116.08	110.42
1	6R	37	ILE	N-CA-CB	5.89	114.47	110.52
1	7f	143	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	7i	103	ASP	CB-CA-C	-5.89	100.83	110.85
1	7m	159	GLU	O-C-N	-5.89	115.65	121.19
1	7v	56	LEU	N-CA-C	5.89	117.51	111.14
1	7z	54	THR	O-C-N	-5.89	115.87	122.12
1	7F	27	VAL	N-CA-C	5.89	116.08	110.42
1	7M	145	TYR	CA-C-O	5.89	126.91	119.95
1	7N	162	ARG	CA-C-N	5.89	128.10	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7N	162	ARG	C-N-CA	5.89	128.10	120.44
1	7W	9	GLN	CB-CA-C	-5.89	100.62	110.29
1	7X	228	ALA	CB-CA-C	5.89	121.97	110.30
1	84	162	ARG	CA-C-O	5.89	125.53	119.05
1	8H	95	GLN	N-CA-CB	5.89	119.89	110.16
1	91	17	PRO	CA-C-O	-5.89	111.21	118.99
1	9i	156	GLY	CA-C-N	5.89	125.59	119.64
1	9i	156	GLY	C-N-CA	5.89	125.59	119.64
1	9l	179	GLN	O-C-N	-5.89	115.87	122.12
1	9z	42	ALA	N-CA-C	5.89	118.49	111.71
1	9B	217	ALA	O-C-N	-5.89	115.72	122.09
1	9N	178	SER	N-CA-C	5.89	118.90	110.24
1	9U	156	GLY	CA-C-O	-5.89	113.09	121.52
1	ad	68	MET	CG-SD-CE	-5.89	87.93	100.90
1	am	162	ARG	CA-CB-CG	5.89	125.89	114.10
1	aU	143	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	b5	192	GLN	O-C-N	-5.89	115.96	122.09
1	bg	198	CYS	O-C-N	-5.89	116.00	122.07
1	17	7	GLN	CG-CD-OE1	-5.89	109.01	120.80
1	bD	129	ILE	N-CA-C	5.89	116.63	110.62
1	bI	144	MET	CG-SD-CE	-5.89	87.93	100.90
1	bT	110	THR	O-C-N	-5.89	116.13	122.85
1	c0	90	PRO	N-CA-C	5.89	120.46	111.15
1	co	185	MET	CG-SD-CE	-5.89	87.93	100.90
1	cu	172	LEU	O-C-N	-5.89	115.87	122.12
1	cA	93	PRO	CA-C-N	5.89	131.07	122.46
1	cA	93	PRO	C-N-CA	5.89	131.07	122.46
1	cG	77	ALA	N-CA-C	5.89	117.70	111.28
1	cQ	158	LYS	O-C-N	-5.89	115.06	122.19
1	dA	24	VAL	CB-CA-C	-5.89	104.42	111.97
1	dP	210	THR	CA-CB-OG1	5.89	118.44	109.60
1	dV	91	ILE	O-C-N	-5.89	115.99	122.83
1	dW	90	PRO	CA-C-N	5.89	128.54	120.35
1	dW	90	PRO	C-N-CA	5.89	128.54	120.35
1	1q	43	LEU	O-C-N	-5.89	114.33	122.46
1	eq	132	ARG	CA-C-O	-5.89	114.81	121.00
1	eq	143	ARG	CD-NE-CZ	-5.89	116.15	124.40
1	ez	226	HIS	CB-CG-ND1	-5.89	113.86	122.70
1	eI	180	GLU	N-CA-C	5.89	117.79	111.36
1	eQ	174	ALA	N-CA-CB	-5.89	101.99	110.65
1	eX	83	LEU	CA-C-O	-5.89	114.30	120.55
1	fb	43	LEU	N-CA-CB	5.89	120.31	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fz	63	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	fC	97	ARG	NE-CZ-NH2	-5.89	113.89	119.20
1	fD	127	GLY	CA-C-N	5.89	128.50	120.54
1	fD	127	GLY	C-N-CA	5.89	128.50	120.54
1	l	120	HIS	N-CA-C	5.89	117.93	110.33
1	s	183	ASN	N-CA-C	5.89	117.70	111.28
1	x	68	MET	O-C-N	-5.89	115.43	122.15
1	G	50	GLN	CA-C-N	5.89	128.66	120.29
1	G	50	GLN	C-N-CA	5.89	128.66	120.29
1	K	117	TRP	CA-C-O	-5.89	112.13	119.38
1	L	171	THR	O-C-N	-5.89	116.00	122.07
1	4	116	GLY	O-C-N	-5.89	116.52	122.18
1	Q	100	ARG	CG-CD-NE	-5.89	99.03	112.00
1	T	18	ARG	CA-C-N	5.89	128.50	120.54
1	T	18	ARG	C-N-CA	5.89	128.50	120.54
1	5	117	TRP	N-CA-C	5.89	117.70	111.28
1	gb	98	GLU	CB-CA-C	5.89	118.76	109.27
1	gh	177	ALA	N-CA-CB	-5.89	101.94	110.36
1	gr	85	PRO	N-CA-C	5.89	124.61	112.47
1	gt	169	TYR	CA-C-N	5.89	128.10	120.44
1	gt	169	TYR	C-N-CA	5.89	128.10	120.44
1	gu	224	PRO	N-CA-CB	-5.89	98.06	103.25
1	gI	7	GLN	CA-C-O	-5.89	114.74	121.58
1	gK	31	ALA	CB-CA-C	-5.89	109.76	116.54
1	gT	12	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	gV	195	ASN	CB-CA-C	5.89	118.51	109.50
1	h6	184	TRP	CB-CG-CD2	5.89	135.05	126.80
1	hd	21	ASN	OD1-CG-ND2	-5.89	116.71	122.60
1	1I	102	SER	CA-C-N	5.89	128.66	120.29
1	1I	102	SER	C-N-CA	5.89	128.66	120.29
1	hJ	106	GLY	CA-C-O	5.89	125.58	119.27
1	hO	192	GLN	N-CA-C	5.89	117.70	111.28
1	hQ	63	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	i2	143	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	if	166	ASP	CA-C-N	5.89	128.18	120.28
1	if	166	ASP	C-N-CA	5.89	128.18	120.28
1	ii	170	LYS	CG-CD-CE	5.89	124.85	111.30
1	iH	206	GLY	CA-C-N	5.89	125.76	119.28
1	iH	206	GLY	C-N-CA	5.89	125.76	119.28
1	j1	5	ASN	OD1-CG-ND2	-5.89	116.71	122.60
1	j6	226	HIS	CB-CG-CD2	-5.89	123.54	131.20
1	jm	3	VAL	O-C-N	-5.89	116.84	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	84	HIS	CA-CB-CG	5.89	119.69	113.80
1	1X	128	GLU	N-CA-C	5.89	117.78	111.36
1	jL	160	PRO	N-CA-C	5.89	120.48	111.11
1	k7	47	ALA	N-CA-C	5.89	119.00	110.28
1	20	100	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	ka	199	LYS	CA-C-O	5.89	126.76	120.10
1	ka	226	HIS	CA-C-O	5.89	127.67	121.19
1	kn	161	PHE	CA-CB-CG	5.89	119.69	113.80
1	kr	134	ILE	O-C-N	-5.89	116.16	121.87
1	kE	100	ARG	NE-CZ-NH1	-5.89	115.61	121.50
1	kH	226	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	l1	144	MET	CG-SD-CE	-5.89	87.94	100.90
1	l3	140	LYS	CA-C-N	5.89	127.98	120.56
1	l3	140	LYS	C-N-CA	5.89	127.98	120.56
1	lb	115	ILE	N-CA-C	5.89	116.08	110.42
1	lk	97	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	ll	124	ILE	N-CA-CB	5.89	119.46	111.21
1	lt	97	ARG	O-C-N	-5.89	115.70	122.89
1	lG	5	ASN	CA-CB-CG	5.89	118.49	112.60
1	2g	17	PRO	CA-C-N	5.89	128.66	120.29
1	2g	17	PRO	C-N-CA	5.89	128.66	120.29
1	2U	96	MET	CA-C-O	5.89	129.11	122.27
1	39	88	ALA	O-C-N	-5.89	115.40	122.65
1	3n	131	LYS	N-CA-CB	-5.89	101.46	110.12
1	3o	2	ILE	CA-CB-CG2	5.89	120.52	110.50
1	3H	216	THR	CA-CB-CG2	5.89	120.52	110.50
1	3Q	204	ALA	N-CA-C	5.89	117.38	111.07
1	3Z	12	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	46	85	PRO	N-CA-CB	5.89	107.03	102.73
1	4b	185	MET	CG-SD-CE	-5.89	87.93	100.90
1	4t	4	GLN	N-CA-C	5.89	119.77	111.52
1	4I	219	GLN	CB-CG-CD	5.89	122.62	112.60
1	4L	47	ALA	N-CA-C	5.89	119.51	110.20
1	4V	16	SER	CA-C-N	5.89	125.44	119.19
1	4V	16	SER	C-N-CA	5.89	125.44	119.19
1	5a	210	THR	N-CA-CB	5.89	119.38	110.42
1	5j	96	MET	CA-C-N	5.89	129.08	120.71
1	5j	96	MET	C-N-CA	5.89	129.08	120.71
1	5l	172	LEU	CA-C-O	-5.89	114.60	120.90
1	5s	194	ALA	N-CA-C	5.89	118.36	110.35
1	5U	70	LYS	O-C-N	5.89	128.87	122.15
1	6f	18	ARG	NE-CZ-NH1	5.89	127.39	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6f	210	THR	N-CA-C	5.89	118.31	110.53
1	6l	129	ILE	N-CA-C	5.89	116.08	110.42
1	6n	133	TRP	CB-CG-CD2	-5.89	118.55	126.80
1	6s	156	GLY	O-C-N	-5.89	115.88	121.77
1	6F	88	ALA	N-CA-CB	5.89	118.71	109.69
1	6R	169	TYR	CA-C-O	-5.89	113.44	120.10
1	75	162	ARG	CA-C-O	5.89	126.76	120.10
1	7a	150	ILE	N-CA-C	5.89	118.42	111.05
1	7j	65	ALA	N-CA-C	5.89	117.70	111.28
1	7y	139	ASN	N-CA-C	5.89	117.50	111.14
1	7Q	131	LYS	N-CA-C	5.89	117.70	111.28
1	8m	41	SER	N-CA-C	5.89	117.70	111.28
1	9c	23	TRP	CA-C-N	5.89	128.53	120.46
1	9c	23	TRP	C-N-CA	5.89	128.53	120.46
1	9e	57	ASN	CA-C-O	5.89	126.67	120.42
1	9j	62	HIS	ND1-CG-CD2	5.89	111.99	106.10
1	9p	24	VAL	N-CA-C	5.89	116.63	110.62
1	9w	108	THR	N-CA-CB	5.89	119.01	110.47
1	9Q	160	PRO	O-C-N	-5.89	115.41	122.89
1	9S	168	PHE	O-C-N	-5.89	115.43	122.15
1	aa	211	LEU	N-CA-CB	5.89	118.78	110.12
1	ae	82	ARG	CA-C-N	5.89	128.46	120.44
1	ae	82	ARG	C-N-CA	5.89	128.46	120.44
1	ah	57	ASN	CB-CG-OD1	5.89	132.59	120.80
1	12	114	GLN	CA-C-N	5.89	128.20	120.60
1	12	114	GLN	C-N-CA	5.89	128.20	120.60
1	ay	223	GLY	O-C-N	-5.89	115.88	121.77
1	aE	3	VAL	N-CA-C	-5.89	99.68	108.46
1	aF	203	LYS	O-C-N	-5.89	114.44	122.33
1	aI	58	THR	N-CA-C	5.89	117.70	111.28
1	aI	217	ALA	CA-C-N	5.89	132.79	121.54
1	aI	217	ALA	C-N-CA	5.89	132.79	121.54
1	aQ	171	THR	N-CA-CB	5.89	118.98	110.20
1	ba	133	TRP	CA-C-O	5.89	126.67	120.42
1	bo	2	ILE	CA-C-O	5.89	127.94	120.75
1	bp	3	VAL	CA-C-O	5.89	128.11	120.69
1	bq	91	ILE	CA-CB-CG1	5.89	120.42	110.40
1	bC	55	MET	CG-SD-CE	-5.89	87.93	100.90
1	bK	133	TRP	CA-C-N	5.89	127.98	120.56
1	bK	133	TRP	C-N-CA	5.89	127.98	120.56
1	bT	210	THR	CA-C-N	5.89	129.66	120.82
1	bT	210	THR	C-N-CA	5.89	129.66	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bW	183	ASN	O-C-N	-5.89	115.43	122.15
1	1e	146	SER	N-CA-C	5.89	121.53	113.16
1	cx	204	ALA	N-CA-C	5.89	117.37	111.07
1	cU	19	THR	CA-C-O	5.89	126.62	119.31
1	d6	205	LEU	O-C-N	-5.89	115.87	122.12
1	da	212	GLU	CA-C-N	5.89	128.66	120.29
1	da	212	GLU	C-N-CA	5.89	128.66	120.29
1	dA	118	MET	N-CA-C	5.89	118.66	111.82
1	dG	3	VAL	N-CA-C	5.89	116.97	108.48
1	dI	128	GLU	CA-C-N	5.89	127.99	120.56
1	dI	128	GLU	C-N-CA	5.89	127.99	120.56
1	dJ	123	PRO	N-CA-CB	5.89	108.48	103.35
1	dM	112	GLN	CA-C-N	5.89	128.18	120.28
1	dM	112	GLN	C-N-CA	5.89	128.18	120.28
1	e8	230	VAL	CA-C-O	5.89	128.15	120.78
1	ej	13	GLN	N-CA-C	5.89	117.17	108.86
1	ek	27	VAL	N-CA-C	5.89	116.63	110.62
1	et	10	MET	N-CA-C	5.89	118.60	110.35
1	eE	190	LEU	CA-C-N	5.89	128.79	120.42
1	eE	190	LEU	C-N-CA	5.89	128.79	120.42
1	eL	104	ILE	O-C-N	-5.89	116.15	121.87
1	fc	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	fh	139	ASN	CA-CB-CG	-5.89	106.71	112.60
1	1w	103	ASP	CA-C-N	5.89	128.79	120.42
1	1w	103	ASP	C-N-CA	5.89	128.79	120.42
1	fz	10	MET	O-C-N	-5.89	116.04	123.17
1	1z	102	SER	O-C-N	-5.89	115.02	122.27
1	fT	10	MET	N-CA-C	5.89	123.35	110.80
1	fW	207	PRO	N-CA-CB	-5.89	98.37	103.32
1	g0	129	ILE	CA-CB-CG1	5.89	120.42	110.40
1	g4	70	LYS	O-C-N	-5.89	115.87	122.12
1	g	192	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	h	115	ILE	CA-C-N	5.89	126.48	119.94
1	h	115	ILE	C-N-CA	5.89	126.48	119.94
1	3	190	LEU	CA-C-N	5.89	128.10	120.56
1	3	190	LEU	C-N-CA	5.89	128.10	120.56
1	8	131	LYS	CB-CA-C	5.89	120.70	110.68
1	1F	43	LEU	N-CA-CB	5.89	118.90	110.06
1	hh	171	THR	CA-C-N	5.89	128.17	120.28
1	hh	171	THR	C-N-CA	5.89	128.17	120.28
1	hm	172	LEU	CA-C-N	5.89	128.17	120.28
1	hm	172	LEU	C-N-CA	5.89	128.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hG	34	PRO	CA-C-O	-5.89	111.21	118.99
1	hJ	188	THR	CA-C-N	5.89	128.17	120.28
1	hJ	188	THR	C-N-CA	5.89	128.17	120.28
1	hO	183	ASN	CA-C-N	5.89	128.66	120.29
1	hO	183	ASN	C-N-CA	5.89	128.66	120.29
1	i1	143	ARG	CA-C-O	5.89	126.79	120.55
1	jr	18	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	jv	129	ILE	CA-C-O	-5.89	114.92	121.17
1	jG	172	LEU	N-CA-CB	5.89	118.72	109.94
1	jQ	100	ARG	CA-C-N	5.89	126.52	119.98
1	jQ	100	ARG	C-N-CA	5.89	126.52	119.98
1	k9	36	VAL	O-C-N	-5.89	115.92	121.87
1	kF	225	GLY	O-C-N	-5.89	117.92	122.99
1	kN	7	GLN	N-CA-C	5.89	118.36	110.35
1	kP	130	TYR	N-CA-C	5.89	117.37	111.07
1	kZ	100	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	l7	186	THR	CA-C-N	5.89	128.17	120.28
1	l7	186	THR	C-N-CA	5.89	128.17	120.28
1	lR	204	ALA	CA-C-O	5.89	126.67	120.42
1	2f	155	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	33	149	SER	N-CA-C	5.89	118.36	110.35
1	4i	81	ASP	N-CA-C	-5.89	104.78	111.14
1	4z	187	GLU	N-CA-CB	-5.89	101.23	110.30
1	50	226	HIS	CA-C-N	5.89	132.79	121.54
1	50	226	HIS	C-N-CA	5.89	132.79	121.54
1	52	20	LEU	CA-C-N	5.89	128.17	120.28
1	52	20	LEU	C-N-CA	5.89	128.17	120.28
1	55	121	ASN	CB-CA-C	5.89	117.31	109.65
1	5t	10	MET	N-CA-C	5.89	118.36	110.35
1	5x	143	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	5z	76	GLU	N-CA-C	5.89	117.78	111.36
1	5z	161	PHE	CA-C-N	5.89	128.49	120.54
1	5z	161	PHE	C-N-CA	5.89	128.49	120.54
1	5Q	202	LEU	CA-C-N	5.89	128.66	120.29
1	5Q	202	LEU	C-N-CA	5.89	128.66	120.29
1	6u	132	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	6L	120	HIS	CA-CB-CG	5.89	119.69	113.80
1	6X	97	ARG	O-C-N	-5.89	115.62	122.87
1	75	212	GLU	O-C-N	-5.89	115.88	122.12
1	7H	200	THR	N-CA-C	5.89	117.37	111.07
1	7I	62	HIS	ND1-CG-CD2	5.89	111.99	106.10
1	8p	65	ALA	N-CA-C	5.89	117.70	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8M	205	LEU	N-CA-C	5.89	118.65	111.82
1	9f	41	SER	CA-C-O	-5.89	113.19	119.97
1	9C	153	ILE	O-C-N	-5.89	115.75	122.94
1	11	125	PRO	CA-C-N	5.89	127.98	120.56
1	11	125	PRO	C-N-CA	5.89	127.98	120.56
1	an	103	ASP	CA-C-N	5.89	128.78	120.42
1	an	103	ASP	C-N-CA	5.89	128.78	120.42
1	b3	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	br	154	ARG	CA-C-N	5.89	130.75	121.56
1	br	154	ARG	C-N-CA	5.89	130.75	121.56
1	bs	69	LEU	N-CA-C	5.89	117.70	111.28
1	bu	143	ARG	N-CA-C	5.89	119.29	111.75
1	1c	212	GLU	N-CA-CB	5.89	118.72	109.94
1	c9	159	GLU	CA-C-O	-5.89	113.91	119.80
1	dc	40	PHE	CA-C-N	5.89	128.17	120.28
1	dc	40	PHE	C-N-CA	5.89	128.17	120.28
1	1l	203	LYS	CA-C-N	5.89	128.45	120.38
1	1l	203	LYS	C-N-CA	5.89	128.45	120.38
1	dy	101	GLY	O-C-N	-5.89	115.04	122.70
1	dY	87	HIS	O-C-N	-5.89	115.99	123.06
1	eS	223	GLY	N-CA-C	5.89	124.36	112.34
1	1u	46	GLY	O-C-N	-5.89	116.05	122.41
1	fq	62	HIS	CA-CB-CG	-5.89	107.91	113.80
1	fE	36	VAL	N-CA-C	5.89	116.55	110.36
1	fM	68	MET	O-C-N	-5.89	115.44	122.15
1	1z	180	GLU	CA-C-N	5.89	127.98	120.56
1	1z	180	GLU	C-N-CA	5.89	127.98	120.56
1	fP	101	GLY	CA-C-O	5.89	127.12	121.05
1	1A	121	ASN	O-C-N	-5.89	116.55	121.44
1	u	212	GLU	CA-C-O	5.89	126.79	120.55
1	gs	209	ALA	N-CA-C	5.89	118.90	110.24
1	gy	47	ALA	CB-CA-C	5.89	119.09	109.90
1	gP	164	TYR	O-C-N	-5.89	116.00	122.07
1	hc	18	ARG	O-C-N	-5.89	116.00	122.07
1	he	76	GLU	O-C-N	-5.89	115.88	122.12
1	hi	119	THR	O-C-N	-5.89	115.27	122.34
1	hu	34	PRO	N-CA-C	5.89	122.35	113.81
1	hx	190	LEU	CA-C-O	-5.89	114.31	120.55
1	hA	90	PRO	CA-C-N	5.89	130.86	123.14
1	hA	90	PRO	C-N-CA	5.89	130.86	123.14
1	hH	64	ALA	N-CA-C	5.89	117.70	111.28
1	hH	139	ASN	CA-CB-CG	-5.89	106.71	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hS	104	ILE	CA-C-O	5.89	126.83	120.47
1	1M	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	1M	206	GLY	CA-C-N	5.89	127.20	119.84
1	1M	206	GLY	C-N-CA	5.89	127.20	119.84
1	hU	132	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	hW	166	ASP	N-CA-C	5.89	117.37	111.07
1	i0	101	GLY	CA-C-N	5.89	128.76	120.28
1	i0	101	GLY	C-N-CA	5.89	128.76	120.28
1	i3	129	ILE	N-CA-C	5.89	116.54	110.36
1	i5	13	GLN	N-CA-C	-5.89	99.75	108.99
1	i5	160	PRO	CA-C-N	5.89	132.79	121.54
1	i5	160	PRO	C-N-CA	5.89	132.79	121.54
1	i5	178	SER	CA-C-N	5.89	128.17	120.28
1	i5	178	SER	C-N-CA	5.89	128.17	120.28
1	ie	51	ASP	CA-CB-CG	-5.89	106.71	112.60
1	ip	195	ASN	CA-CB-CG	5.89	118.49	112.60
1	iy	92	GLU	CA-C-N	5.89	127.20	119.84
1	iy	92	GLU	C-N-CA	5.89	127.20	119.84
1	iM	90	PRO	CA-C-O	-5.89	114.63	121.34
1	iT	198	CYS	O-C-N	-5.89	115.81	122.23
1	j4	135	ILE	CB-CA-C	5.89	120.35	112.22
1	jk	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	jl	118	MET	O-C-N	-5.89	115.44	122.15
1	1W	115	ILE	CA-CB-CG2	5.89	120.51	110.50
1	jC	215	MET	N-CA-C	5.89	120.33	113.20
1	1Y	77	ALA	O-C-N	5.89	128.14	122.07
1	jW	21	ASN	CA-CB-CG	-5.89	106.71	112.60
1	jX	226	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	k0	155	GLN	CA-C-O	-5.89	114.70	121.47
1	kd	143	ARG	CD-NE-CZ	5.89	132.65	124.40
1	21	18	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	ks	53	ASN	CA-C-O	5.89	127.20	120.90
1	kE	13	GLN	CA-C-N	5.89	129.07	120.71
1	kE	13	GLN	C-N-CA	5.89	129.07	120.71
1	kJ	185	MET	N-CA-C	5.89	118.18	111.11
1	kM	180	GLU	CG-CD-OE1	5.89	131.94	118.40
1	24	7	GLN	CA-C-O	5.89	126.91	119.61
1	kV	133	TRP	CH2-CZ2-CE2	5.89	125.16	117.50
1	l6	120	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	l6	164	TYR	CA-C-N	5.89	128.83	120.53
1	l6	164	TYR	C-N-CA	5.89	128.83	120.53
1	lb	24	VAL	CA-CB-CG1	5.89	120.41	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lb	57	ASN	N-CA-C	5.89	118.65	111.82
1	lg	37	ILE	O-C-N	-5.89	114.39	121.10
1	lp	91	ILE	CB-CA-C	5.89	119.57	110.50
1	lF	38	PRO	N-CD-CG	5.89	112.03	103.20
1	2c	228	ALA	CA-C-N	5.89	129.12	120.82
1	2c	228	ALA	C-N-CA	5.89	129.12	120.82
1	2d	64	ALA	CA-C-O	5.89	126.66	120.42
1	2r	5	ASN	CA-C-N	5.89	132.79	121.54
1	2r	5	ASN	C-N-CA	5.89	132.79	121.54
1	2s	2	ILE	N-CA-C	-5.89	99.05	107.77
1	2x	195	ASN	O-C-N	-5.89	114.95	121.66
1	2B	184	TRP	N-CA-C	5.89	117.70	111.28
1	2L	29	GLU	N-CA-C	5.89	117.39	110.97
1	2X	42	ALA	N-CA-C	5.89	117.37	111.07
1	36	140	LYS	CA-C-N	5.89	127.98	120.56
1	36	140	LYS	C-N-CA	5.89	127.98	120.56
1	3k	45	GLU	N-CA-CB	5.89	118.78	109.71
1	3t	191	VAL	CB-CA-C	-5.89	104.52	111.94
1	3T	79	GLU	CA-C-O	5.89	126.79	120.55
1	4o	76	GLU	CA-C-O	-5.89	114.18	120.42
1	4v	88	ALA	N-CA-C	5.89	118.25	109.59
1	50	198	CYS	CA-C-O	5.89	126.44	119.67
1	52	44	SER	O-C-N	-5.89	114.33	122.46
1	53	91	ILE	CB-CA-C	5.89	120.25	110.30
1	5d	60	GLY	CA-C-N	5.89	128.37	122.30
1	5d	60	GLY	C-N-CA	5.89	128.37	122.30
1	5x	84	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	5N	214	MET	CG-SD-CE	-5.89	87.94	100.90
1	5U	195	ASN	CA-CB-CG	5.89	118.49	112.60
1	60	167	ARG	CA-C-N	5.89	128.10	120.44
1	60	167	ARG	C-N-CA	5.89	128.10	120.44
1	68	200	THR	O-C-N	-5.89	115.88	122.12
1	69	165	VAL	CA-C-N	5.89	128.45	120.38
1	69	165	VAL	C-N-CA	5.89	128.45	120.38
1	6f	229	ARG	NE-CZ-NH2	5.89	124.50	119.20
1	6j	140	LYS	CA-C-N	5.89	127.91	120.72
1	6j	140	LYS	C-N-CA	5.89	127.91	120.72
1	6p	19	THR	N-CA-CB	5.89	118.61	110.07
1	6q	86	VAL	N-CA-C	5.89	116.67	110.72
1	6J	179	GLN	O-C-N	-5.89	116.00	122.07
1	6S	162	ARG	N-CA-C	5.89	118.18	111.11
1	77	159	GLU	CB-CA-C	5.89	116.00	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7b	131	LYS	CA-C-N	5.89	128.45	120.44
1	7b	131	LYS	C-N-CA	5.89	128.45	120.44
1	7E	70	LYS	N-CA-C	5.89	117.70	111.28
1	7T	153	ILE	CB-CA-C	-5.89	105.11	111.59
1	7U	122	PRO	N-CA-CB	5.89	109.08	102.60
1	81	80	TRP	CE2-CD2-CE3	5.89	124.69	118.80
1	8c	28	GLU	O-C-N	-5.89	115.44	122.15
1	8n	226	HIS	CA-C-O	5.89	126.78	120.24
1	8w	7	GLN	O-C-N	-5.89	116.54	123.25
1	8B	172	LEU	CB-CA-C	-5.89	101.64	110.88
1	9b	23	TRP	CB-CG-CD2	5.89	135.04	126.80
1	9f	163	ASP	CA-CB-CG	-5.89	106.71	112.60
1	9m	18	ARG	N-CA-C	5.89	117.78	111.36
1	9y	118	MET	N-CA-C	5.89	117.70	111.28
1	9E	33	SER	CB-CA-C	5.89	117.93	109.92
1	Y	227	LYS	N-CA-C	5.89	119.20	110.48
1	a2	168	PHE	CA-CB-CG	5.89	119.69	113.80
1	aQ	197	ASP	O-C-N	-5.89	116.00	122.07
1	aU	187	GLU	O-C-N	-5.89	115.44	122.15
1	b5	184	TRP	O-C-N	-5.89	116.00	122.07
1	bp	83	LEU	N-CA-C	5.89	118.94	111.69
1	br	221	VAL	CA-C-N	5.89	129.03	122.55
1	br	221	VAL	C-N-CA	5.89	129.03	122.55
1	bs	119	THR	CA-CB-OG1	5.89	118.43	109.60
1	bs	192	GLN	CB-CG-CD	5.89	122.61	112.60
1	c3	191	VAL	N-CA-CB	5.89	117.44	110.55
1	cr	66	MET	O-C-N	-5.89	115.88	122.12
1	cP	7	GLN	CA-C-O	5.89	127.64	120.57
1	cQ	200	THR	CA-C-N	5.89	127.98	120.56
1	cQ	200	THR	C-N-CA	5.89	127.98	120.56
1	cU	142	VAL	O-C-N	5.89	128.46	121.80
1	cW	216	THR	N-CA-C	-5.89	105.19	112.90
1	d5	98	GLU	N-CA-C	5.89	117.12	109.64
1	dq	44	SER	CA-C-N	5.89	129.07	120.71
1	dq	44	SER	C-N-CA	5.89	129.07	120.71
1	dC	146	SER	CA-C-O	-5.89	112.09	120.16
1	dF	154	ARG	CA-C-N	5.89	129.72	121.24
1	dF	154	ARG	C-N-CA	5.89	129.72	121.24
1	dQ	177	ALA	CA-C-N	5.89	129.64	120.75
1	dQ	177	ALA	C-N-CA	5.89	129.64	120.75
1	dZ	90	PRO	CA-C-O	-5.89	114.67	121.86
1	e2	17	PRO	N-CA-CB	5.89	109.76	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e5	187	GLU	CA-C-N	5.89	128.71	121.64
1	e5	187	GLU	C-N-CA	5.89	128.71	121.64
1	es	154	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	eH	70	LYS	CA-C-N	5.89	128.17	120.28
1	eH	70	LYS	C-N-CA	5.89	128.17	120.28
1	eM	185	MET	O-C-N	-5.89	115.11	122.24
1	eW	127	GLY	O-C-N	-5.89	116.48	122.19
1	fq	56	LEU	N-CA-CB	5.89	118.55	110.01
1	fu	152	ASP	CB-CA-C	-5.89	99.66	109.55
1	fz	183	ASN	N-CA-C	5.89	117.37	111.07
1	fA	78	ALA	CA-C-N	5.89	129.26	120.31
1	fA	78	ALA	C-N-CA	5.89	129.26	120.31
1	fD	52	LEU	CA-C-N	5.89	128.17	120.28
1	fD	52	LEU	C-N-CA	5.89	128.17	120.28
1	fH	84	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	g4	62	HIS	CB-CG-CD2	5.89	138.86	131.20
1	g7	226	HIS	N-CA-CB	5.89	118.65	110.17
1	q	159	GLU	CA-C-O	-5.89	114.21	119.75
1	w	132	ARG	CB-CA-C	-5.89	101.01	110.79
1	x	74	ASN	CA-CB-CG	-5.89	106.71	112.60
1	C	117	TRP	CB-CG-CD1	-5.89	118.06	126.90
1	hp	45	GLU	N-CA-C	5.89	117.70	111.28
1	hE	18	ARG	N-CA-C	5.89	117.70	111.28
1	hX	53	ASN	CA-C-N	5.89	128.17	120.28
1	hX	53	ASN	C-N-CA	5.89	128.17	120.28
1	iN	105	ALA	CA-C-O	5.89	126.19	119.18
1	iN	120	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	jE	224	PRO	CA-C-O	-5.89	114.93	121.23
1	jS	227	LYS	O-C-N	5.89	129.11	122.22
1	k9	192	GLN	CA-C-O	-5.89	114.64	120.82
1	ki	157	PRO	N-CA-C	-5.89	105.86	113.57
1	kr	19	THR	CA-CB-CG2	5.89	120.51	110.50
1	kx	201	ILE	O-C-N	-5.89	115.77	121.83
1	kP	229	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	l9	97	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	ln	84	HIS	CA-C-N	5.89	125.91	119.90
1	ln	84	HIS	C-N-CA	5.89	125.91	119.90
1	lp	12	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	lx	211	LEU	CA-C-O	-5.89	114.27	120.63
1	lC	46	GLY	CA-C-O	5.89	125.59	119.00
1	lE	230	VAL	O-C-N	-5.89	116.56	122.62
1	lF	131	LYS	CA-C-N	5.89	128.49	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	131	LYS	C-N-CA	5.89	128.49	120.54
1	lJ	62	HIS	CB-CG-CD2	-5.89	123.55	131.20
1	lL	62	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	2u	82	ARG	CA-C-O	5.89	126.79	120.55
1	3i	77	ALA	CA-C-N	5.89	128.17	120.28
1	3i	77	ALA	C-N-CA	5.89	128.17	120.28
1	3x	212	GLU	N-CA-C	5.89	118.45	111.33
1	3y	72	THR	CA-CB-OG1	5.89	118.43	109.60
1	3Z	21	ASN	N-CA-CB	5.89	118.89	110.06
1	53	154	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	57	33	SER	CA-C-O	-5.89	115.20	120.56
1	5i	151	LEU	N-CA-C	5.89	118.48	111.71
1	6q	100	ARG	CA-C-N	5.89	126.62	120.03
1	6q	100	ARG	C-N-CA	5.89	126.62	120.03
1	6w	4	GLN	N-CA-C	5.89	118.14	110.43
1	7J	134	ILE	O-C-N	-5.89	116.16	121.87
1	7P	63	GLN	N-CA-C	5.89	117.70	111.28
1	80	195	ASN	O-C-N	-5.89	115.05	121.53
1	81	226	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	8e	97	ARG	NE-CZ-NH2	-5.89	113.90	119.20
1	8Y	190	LEU	N-CA-C	5.89	117.37	111.07
1	9A	114	GLN	OE1-CD-NE2	5.89	128.49	122.60
1	ao	170	LYS	N-CA-C	5.89	118.48	111.71
1	aD	100	ARG	NH1-CZ-NH2	-5.89	111.64	119.30
1	b8	18	ARG	CD-NE-CZ	-5.89	116.16	124.40
1	bH	11	VAL	CB-CA-C	-5.89	102.11	110.12
1	bX	134	ILE	CA-C-O	5.89	127.39	121.27
1	c1	33	SER	CA-C-O	-5.89	115.59	120.71
1	c8	156	GLY	CA-C-N	5.89	125.43	119.19
1	c8	156	GLY	C-N-CA	5.89	125.43	119.19
1	dn	51	ASP	CA-CB-CG	5.89	118.49	112.60
1	1k	57	ASN	O-C-N	-5.89	115.88	122.12
1	1l	107	THR	CA-CB-CG2	-5.89	100.49	110.50
1	dN	67	GLN	CB-CA-C	-5.89	101.02	110.79
1	en	159	GLU	CA-C-O	-5.89	112.09	120.16
1	eu	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	eJ	68	MET	CA-C-N	5.89	128.17	120.28
1	eJ	68	MET	C-N-CA	5.89	128.17	120.28
1	f0	174	ALA	CA-C-O	5.89	126.24	119.35
1	1x	123	PRO	N-CA-CB	5.89	108.82	103.34
1	fK	219	GLN	N-CA-C	5.89	118.73	109.96
1	fU	103	ASP	CA-CB-CG	5.89	118.49	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	9	GLN	CA-C-N	5.89	129.47	120.82
1	s	9	GLN	C-N-CA	5.89	129.47	120.82
1	X	166	ASP	CA-C-N	5.89	128.45	120.44
1	X	166	ASP	C-N-CA	5.89	128.45	120.44
1	g8	62	HIS	CB-CG-ND1	-5.89	113.87	122.70
1	g9	171	THR	CB-CA-C	-5.89	101.02	110.79
1	gs	120	HIS	N-CA-C	5.89	118.14	110.43
1	gw	199	LYS	CA-C-N	5.89	128.17	120.28
1	gw	199	LYS	C-N-CA	5.89	128.17	120.28
1	1E	125	PRO	CA-C-N	5.89	128.52	120.46
1	1E	125	PRO	C-N-CA	5.89	128.52	120.46
1	gK	52	LEU	CA-C-O	-5.89	114.64	120.70
1	gL	33	SER	CA-C-N	5.89	125.59	119.82
1	gL	33	SER	C-N-CA	5.89	125.59	119.82
1	gO	80	TRP	CG-CD1-NE1	-5.89	102.55	110.20
1	ha	125	PRO	N-CA-CB	5.89	106.69	102.28
1	hh	229	ARG	CA-C-O	5.89	127.58	120.81
1	hw	198	CYS	CA-C-N	5.89	128.65	120.29
1	hw	198	CYS	C-N-CA	5.89	128.65	120.29
1	hF	111	LEU	CA-C-O	5.89	126.79	120.55
1	hH	70	LYS	N-CA-C	5.89	117.70	111.28
1	i0	168	PHE	CB-CA-C	5.89	120.03	110.96
1	i7	87	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	id	76	GLU	O-C-N	5.89	128.36	122.12
1	ij	96	MET	N-CA-C	5.89	118.87	110.10
1	ip	193	ASN	CA-C-N	5.89	129.64	120.75
1	ip	193	ASN	C-N-CA	5.89	129.64	120.75
1	iC	72	THR	O-C-N	-5.89	115.88	122.12
1	iJ	87	HIS	CA-C-N	5.89	129.64	120.75
1	iJ	87	HIS	C-N-CA	5.89	129.64	120.75
1	iJ	91	ILE	O-C-N	-5.89	115.15	121.80
1	iJ	181	VAL	N-CA-CB	5.89	118.55	110.54
1	iR	55	MET	CA-C-N	5.89	128.09	120.44
1	iR	55	MET	C-N-CA	5.89	128.09	120.44
1	j3	87	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	j4	186	THR	O-C-N	5.89	130.58	122.46
1	ja	15	ILE	N-CA-C	5.89	121.58	109.34
1	ja	84	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	jc	166	ASP	CA-C-O	-5.89	114.60	121.07
1	jn	200	THR	O-C-N	5.89	128.36	122.12
1	jH	63	GLN	OE1-CD-NE2	5.89	128.49	122.60
1	jI	120	HIS	CE1-NE2-CD2	-5.89	103.11	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jP	4	GLN	CA-C-O	5.89	126.80	120.32
1	k4	72	THR	CA-C-N	5.89	127.98	120.56
1	k4	72	THR	C-N-CA	5.89	127.98	120.56
1	kl	204	ALA	CA-C-N	5.89	128.17	120.28
1	kl	204	ALA	C-N-CA	5.89	128.17	120.28
1	23	121	ASN	CA-C-O	-5.89	115.00	119.59
1	l9	227	LYS	CA-C-N	5.89	130.25	121.72
1	l9	227	LYS	C-N-CA	5.89	130.25	121.72
1	ld	152	ASP	N-CA-C	5.89	117.69	111.28
1	li	154	ARG	N-CA-CB	5.89	121.49	111.66
1	lm	229	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	ln	72	THR	CA-C-N	5.89	127.98	120.56
1	ln	72	THR	C-N-CA	5.89	127.98	120.56
1	lr	226	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	lF	163	ASP	CA-C-O	5.89	126.74	119.97
1	lG	226	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	lH	131	LYS	O-C-N	-5.89	115.97	122.09
1	lO	29	GLU	O-C-N	-5.89	115.28	122.11
1	2b	92	GLU	CA-C-O	-5.89	114.22	120.28
1	2l	131	LYS	O-C-N	5.89	128.13	122.07
1	2q	215	MET	CG-SD-CE	-5.89	87.95	100.90
1	2B	120	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	2C	149	SER	CA-C-N	5.89	130.55	121.19
1	2C	149	SER	C-N-CA	5.89	130.55	121.19
1	2D	87	HIS	CB-CG-CD2	-5.89	123.55	131.20
1	31	2	ILE	N-CA-C	5.89	116.35	108.11
1	3b	164	TYR	N-CA-C	5.89	117.78	111.36
1	3E	61	GLY	CA-C-N	5.89	130.49	122.19
1	3E	61	GLY	C-N-CA	5.89	130.49	122.19
1	3J	120	HIS	CG-CD2-NE2	5.89	113.09	107.20
1	3Q	22	ALA	N-CA-C	5.89	117.69	111.28
1	3Q	153	ILE	N-CA-C	5.89	112.51	106.21
1	3R	166	ASP	CB-CA-C	5.89	120.12	110.88
1	3T	223	GLY	CA-C-N	5.89	125.91	119.90
1	3T	223	GLY	C-N-CA	5.89	125.91	119.90
1	43	40	PHE	N-CA-C	5.89	118.17	111.11
1	45	21	ASN	CA-C-N	5.89	128.17	120.28
1	45	21	ASN	C-N-CA	5.89	128.17	120.28
1	47	42	ALA	O-C-N	-5.89	114.44	122.33
1	48	146	SER	O-C-N	-5.89	114.55	121.32
1	49	139	ASN	CA-C-N	5.89	128.17	120.28
1	49	139	ASN	C-N-CA	5.89	128.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4e	62	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	4h	133	TRP	CB-CA-C	-5.89	101.02	110.79
1	4q	45	GLU	O-C-N	-5.89	115.69	122.93
1	4z	84	HIS	CA-CB-CG	5.89	119.69	113.80
1	4H	211	LEU	O-C-N	-5.89	115.97	122.09
1	55	214	MET	N-CA-C	5.89	117.37	111.07
1	5l	62	HIS	CB-CA-C	5.89	120.09	111.73
1	5p	195	ASN	CA-C-N	5.89	126.03	119.32
1	5p	195	ASN	C-N-CA	5.89	126.03	119.32
1	5D	12	HIS	CA-C-N	5.89	131.65	121.64
1	5D	12	HIS	C-N-CA	5.89	131.65	121.64
1	5T	107	THR	N-CA-C	5.89	120.63	112.45
1	5V	131	LYS	CA-C-N	5.89	128.17	120.28
1	5V	131	LYS	C-N-CA	5.89	128.17	120.28
1	69	120	HIS	ND1-CE1-NE2	5.89	114.29	108.40
1	6d	66	MET	CA-C-O	5.89	127.00	120.82
1	6h	179	GLN	CG-CD-OE1	-5.89	109.03	120.80
1	6r	104	ILE	O-C-N	-5.89	116.14	121.91
1	6N	82	ARG	NH1-CZ-NH2	-5.89	111.65	119.30
1	6R	195	ASN	CA-C-N	5.89	125.36	119.24
1	6R	195	ASN	C-N-CA	5.89	125.36	119.24
1	6U	59	VAL	N-CA-CB	5.89	117.76	111.46
1	7C	131	LYS	CA-C-O	5.89	126.79	120.55
1	7D	134	ILE	N-CA-C	5.89	116.35	110.23
1	7O	183	ASN	CA-C-O	-5.89	114.31	120.55
1	8q	117	TRP	N-CA-C	5.89	117.70	111.28
1	8z	21	ASN	N-CA-C	5.89	118.17	111.11
1	8Z	21	ASN	CA-C-N	5.89	128.17	120.28
1	8Z	21	ASN	C-N-CA	5.89	128.17	120.28
1	94	156	GLY	CA-C-N	5.89	125.43	119.19
1	94	156	GLY	C-N-CA	5.89	125.43	119.19
1	9n	130	TYR	CA-C-O	5.89	126.79	120.55
1	ao	78	ALA	CA-C-N	5.89	128.65	120.29
1	ao	78	ALA	C-N-CA	5.89	128.65	120.29
1	ax	84	HIS	CA-C-N	5.89	127.20	119.84
1	ax	84	HIS	C-N-CA	5.89	127.20	119.84
1	az	92	GLU	N-CA-C	5.89	122.82	109.81
1	aJ	15	ILE	O-C-N	-5.89	115.89	122.66
1	aM	51	ASP	O-C-N	-5.89	115.88	122.12
1	b3	97	ARG	NE-CZ-NH1	5.89	127.39	121.50
1	16	60	GLY	N-CA-C	5.89	118.81	112.33
1	bm	18	ARG	CA-C-N	5.89	128.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bm	18	ARG	C-N-CA	5.89	128.17	120.28
1	bp	176	GLN	N-CA-C	5.89	120.07	113.01
1	bv	165	VAL	CA-C-O	5.89	127.07	120.95
1	bC	54	THR	N-CA-CB	5.89	118.71	109.94
1	bR	180	GLU	CB-CA-C	-5.89	101.64	110.88
1	1b	189	LEU	CA-C-N	5.89	128.17	120.28
1	1b	189	LEU	C-N-CA	5.89	128.17	120.28
1	bW	37	ILE	N-CA-C	5.89	119.41	112.35
1	1f	164	TYR	N-CA-C	5.89	117.37	111.07
1	cI	226	HIS	O-C-N	-5.89	116.00	123.24
1	cM	161	PHE	CA-CB-CG	5.89	119.69	113.80
1	cM	210	THR	O-C-N	-5.89	116.14	122.85
1	d0	84	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	dc	140	LYS	CA-C-O	5.89	127.00	120.82
1	ds	99	PRO	N-CA-CB	-5.89	99.62	102.92
1	dB	178	SER	N-CA-C	5.89	118.50	110.55
1	ep	34	PRO	N-CA-C	-5.89	105.51	113.40
1	es	126	VAL	N-CA-C	5.89	116.62	110.62
1	eF	182	LYS	CA-C-N	5.89	128.17	120.28
1	eF	182	LYS	C-N-CA	5.89	128.17	120.28
1	eI	51	ASP	CA-CB-CG	-5.89	106.71	112.60
1	eJ	37	ILE	O-C-N	-5.89	115.89	120.07
1	eS	140	LYS	CA-C-O	5.89	126.79	120.55
1	1w	178	SER	CA-C-N	5.89	128.17	120.28
1	1w	178	SER	C-N-CA	5.89	128.17	120.28
1	fk	50	GLN	OE1-CD-NE2	-5.89	116.71	122.60
1	ft	139	ASN	O-C-N	-5.89	115.88	122.12
1	fv	120	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	fL	62	HIS	N-CA-C	5.89	119.36	111.24
1	fL	190	LEU	CA-C-O	-5.89	114.31	120.55
1	fN	152	ASP	CA-CB-CG	5.89	118.49	112.60
1	g2	77	ALA	N-CA-C	5.89	117.78	111.36
1	g2	195	ASN	CA-CB-CG	5.89	118.49	112.60
1	g7	86	VAL	N-CA-C	5.89	116.96	108.48
1	0	37	ILE	N-CA-CB	5.89	115.04	110.45
1	q	54	THR	O-C-N	-5.89	115.88	122.12
1	3	227	LYS	N-CA-C	5.89	118.36	110.35
1	5	201	ILE	O-C-N	-5.89	115.15	121.80
1	8	133	TRP	CB-CA-C	-5.89	100.84	110.85
1	g9	52	LEU	O-C-N	-5.88	115.88	122.12
1	gb	121	ASN	CA-C-O	-5.88	115.00	119.59
1	gb	183	ASN	N-CA-C	5.88	117.69	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gc	49	PRO	CA-C-N	5.88	128.65	120.29
1	gc	49	PRO	C-N-CA	5.88	128.65	120.29
1	gk	158	LYS	CA-C-O	5.88	126.89	119.95
1	gu	224	PRO	N-CA-C	5.88	120.45	111.15
1	gw	35	GLU	CA-C-O	5.88	126.51	119.10
1	gD	95	GLN	O-C-N	-5.88	115.63	122.87
1	gG	105	ALA	N-CA-C	5.88	118.48	111.71
1	gN	5	ASN	N-CA-CB	-5.88	100.62	110.80
1	gX	161	PHE	CB-CA-C	5.88	121.15	111.50
1	hc	48	THR	N-CA-CB	5.88	117.90	109.78
1	hi	120	HIS	CB-CG-CD2	-5.88	123.55	131.20
1	hj	21	ASN	N-CA-C	5.88	117.37	111.07
1	hk	229	ARG	NE-CZ-NH2	-5.88	113.90	119.20
1	ht	8	GLY	CA-C-O	-5.88	116.11	122.47
1	ht	184	TRP	O-C-N	-5.88	115.88	122.12
1	hJ	164	TYR	CB-CA-C	5.88	120.68	110.68
1	hO	12	HIS	N-CA-C	5.88	119.50	110.20
1	i1	109	SER	CA-C-N	5.88	131.68	120.97
1	i1	109	SER	C-N-CA	5.88	131.68	120.97
1	i8	166	ASP	CA-CB-CG	5.88	118.48	112.60
1	ik	171	THR	O-C-N	-5.88	115.44	122.15
1	iq	112	GLN	O-C-N	-5.88	116.01	122.07
1	iE	111	LEU	O-C-N	-5.88	115.88	122.12
1	iG	37	ILE	O-C-N	-5.88	116.66	120.42
1	iX	57	ASN	N-CA-C	5.88	117.69	111.28
1	jt	14	ALA	CA-C-N	5.88	129.36	120.77
1	jt	14	ALA	C-N-CA	5.88	129.36	120.77
1	jC	136	LEU	O-C-N	-5.88	115.88	122.12
1	jD	19	THR	N-CA-C	5.88	117.37	111.07
1	jL	82	ARG	NH1-CZ-NH2	-5.88	111.65	119.30
1	1Y	168	PHE	CB-CA-C	5.88	120.22	110.81
1	jV	176	GLN	N-CA-C	5.88	119.31	109.95
1	k4	8	GLY	O-C-N	-5.88	118.29	123.88
1	k8	143	ARG	CA-C-O	5.88	126.79	120.55
1	ka	72	THR	O-C-N	-5.88	115.88	122.12
1	kE	166	ASP	N-CA-CB	-5.88	101.32	109.91
1	kR	99	PRO	O-C-N	5.88	130.16	123.10
1	kW	16	SER	CA-CB-OG	5.88	122.87	111.10
1	lm	117	TRP	N-CA-C	5.88	117.77	111.36
1	lA	118	MET	N-CA-CB	5.88	118.87	110.16
1	lM	103	ASP	CA-C-N	5.88	129.95	120.30
1	lM	103	ASP	C-N-CA	5.88	129.95	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	57	ASN	CA-C-N	5.88	130.68	120.68
1	2o	57	ASN	C-N-CA	5.88	130.68	120.68
1	3d	80	TRP	N-CA-C	5.88	118.45	111.33
1	3t	200	THR	CA-C-O	-5.88	114.31	120.55
1	3D	75	GLU	CA-C-O	5.88	126.79	120.55
1	3S	24	VAL	N-CA-C	5.88	116.62	110.62
1	3T	164	TYR	CA-C-O	5.88	127.00	120.82
1	4y	77	ALA	CA-C-N	5.88	128.16	120.28
1	4y	77	ALA	C-N-CA	5.88	128.16	120.28
1	4K	43	LEU	N-CA-C	5.88	117.69	111.28
1	4L	189	LEU	CA-C-N	5.88	129.25	120.31
1	4L	189	LEU	C-N-CA	5.88	129.25	120.31
1	4U	146	SER	N-CA-CB	5.88	117.36	110.42
1	51	133	TRP	CA-C-N	5.88	127.97	120.56
1	51	133	TRP	C-N-CA	5.88	127.97	120.56
1	5g	28	GLU	O-C-N	5.88	128.13	122.07
1	5h	87	HIS	CA-CB-CG	5.88	119.68	113.80
1	5y	125	PRO	N-CD-CG	5.88	112.03	103.20
1	5D	80	TRP	N-CA-C	5.88	117.69	111.28
1	5M	46	GLY	CA-C-N	5.88	129.23	120.87
1	5M	46	GLY	C-N-CA	5.88	129.23	120.87
1	5S	113	GLU	CB-CA-C	-5.88	101.02	110.79
1	5Z	148	THR	CA-C-N	5.88	130.18	120.94
1	5Z	148	THR	C-N-CA	5.88	130.18	120.94
1	62	62	HIS	CB-CG-ND1	-5.88	113.87	122.70
1	6R	211	LEU	CA-C-N	5.88	128.16	120.28
1	6R	211	LEU	C-N-CA	5.88	128.16	120.28
1	6W	134	ILE	CA-C-N	5.88	128.52	120.46
1	6W	134	ILE	C-N-CA	5.88	128.52	120.46
1	7h	77	ALA	O-C-N	-5.88	115.33	122.22
1	7k	170	LYS	N-CA-CB	-5.88	101.47	110.12
1	7q	152	ASP	CA-CB-CG	5.88	118.48	112.60
1	7v	87	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	7X	67	GLN	CA-C-N	5.88	128.48	120.54
1	7X	67	GLN	C-N-CA	5.88	128.48	120.54
1	7Y	97	ARG	O-C-N	-5.88	115.92	122.86
1	82	18	ARG	NH1-CZ-NH2	-5.88	111.65	119.30
1	8Y	107	THR	CA-C-O	5.88	126.76	120.70
1	90	84	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	91	92	GLU	N-CA-C	5.88	121.54	113.77
1	9X	115	ILE	CA-C-N	5.88	126.64	119.99
1	9X	115	ILE	C-N-CA	5.88	126.64	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a4	120	HIS	CA-CB-CG	-5.88	107.92	113.80
1	aj	164	TYR	O-C-N	5.88	128.13	122.07
1	aL	49	PRO	CA-C-N	5.88	128.09	120.44
1	aL	49	PRO	C-N-CA	5.88	128.09	120.44
1	aQ	82	ARG	CG-CD-NE	-5.88	99.05	112.00
1	b4	191	VAL	CA-C-O	-5.88	113.89	120.25
1	br	44	SER	CA-C-O	5.88	126.53	119.59
1	bx	99	PRO	O-C-N	-5.88	114.70	122.64
1	bC	21	ASN	N-CA-C	5.88	117.69	111.28
1	bL	142	VAL	CA-C-N	5.88	128.09	120.44
1	bL	142	VAL	C-N-CA	5.88	128.09	120.44
1	1a	23	TRP	CA-CB-CG	5.88	124.78	113.60
1	c1	18	ARG	CG-CD-NE	-5.88	99.05	112.00
1	c6	166	ASP	CA-C-N	5.88	128.17	120.28
1	c6	166	ASP	C-N-CA	5.88	128.17	120.28
1	co	96	MET	O-C-N	-5.88	116.35	123.29
1	1e	212	GLU	N-CA-C	5.88	118.17	111.11
1	cE	7	GLN	O-C-N	-5.88	114.76	122.59
1	1h	48	THR	CA-CB-OG1	5.88	118.42	109.60
1	cY	201	ILE	CA-C-N	5.88	128.09	120.44
1	cY	201	ILE	C-N-CA	5.88	128.09	120.44
1	cZ	98	GLU	N-CA-C	5.88	118.15	109.50
1	d8	77	ALA	N-CA-C	5.88	117.78	111.36
1	de	26	VAL	O-C-N	-5.88	115.78	121.90
1	dv	226	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	dy	81	ASP	O-C-N	-5.88	116.01	122.07
1	dB	40	PHE	CA-C-N	5.88	128.09	120.44
1	dB	40	PHE	C-N-CA	5.88	128.09	120.44
1	dR	62	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	dW	92	GLU	CA-C-N	5.88	125.90	119.90
1	dW	92	GLU	C-N-CA	5.88	125.90	119.90
1	e0	199	LYS	CA-C-N	5.88	129.25	120.31
1	e0	199	LYS	C-N-CA	5.88	129.25	120.31
1	e1	194	ALA	CA-C-N	5.88	136.16	121.80
1	e1	194	ALA	C-N-CA	5.88	136.16	121.80
1	e4	55	MET	N-CA-C	5.88	117.69	111.28
1	e5	53	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	1p	81	ASP	N-CA-C	-5.88	105.96	113.02
1	eg	185	MET	N-CA-C	5.88	118.45	111.33
1	eg	198	CYS	CA-C-O	5.88	126.66	120.42
1	et	14	ALA	N-CA-CB	-5.88	102.29	110.29
1	eU	204	ALA	CA-C-N	5.88	130.55	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eU	204	ALA	C-N-CA	5.88	130.55	120.72
1	fl	184	TRP	CD2-CE2-CZ2	-5.88	116.52	122.40
1	fD	173	ARG	N-CA-CB	5.88	119.40	110.28
1	fJ	41	SER	CA-C-O	5.88	126.66	120.42
1	fY	117	TRP	N-CA-C	5.88	117.37	111.07
1	g7	34	PRO	N-CD-CG	5.88	112.03	103.20
1	e	183	ASN	CA-CB-CG	-5.88	106.72	112.60
1	l	176	GLN	CA-C-N	5.88	130.74	121.56
1	l	176	GLN	C-N-CA	5.88	130.74	121.56
1	M	79	GLU	N-CA-C	5.88	117.37	111.07
1	4	36	VAL	CA-C-N	5.88	133.01	122.13
1	4	36	VAL	C-N-CA	5.88	133.01	122.13
1	7	45	GLU	N-CA-CB	5.88	118.69	109.69
1	8	222	GLY	O-C-N	-5.88	117.18	122.77
1	gh	164	TYR	N-CA-C	-5.88	104.79	111.14
1	gE	104	ILE	O-C-N	5.88	127.58	121.87
1	gU	1	PRO	CA-C-N	5.88	129.96	122.37
1	gU	1	PRO	C-N-CA	5.88	129.96	122.37
1	h2	22	ALA	CA-C-O	5.88	126.79	120.55
1	iE	53	ASN	N-CA-CB	-5.88	101.47	110.12
1	jy	156	GLY	O-C-N	-5.88	115.89	121.77
1	jV	163	ASP	CA-C-N	5.88	128.44	120.44
1	jV	163	ASP	C-N-CA	5.88	128.44	120.44
1	kp	128	GLU	CA-C-N	5.88	128.52	120.46
1	kp	128	GLU	C-N-CA	5.88	128.52	120.46
1	kv	130	TYR	O-C-N	-5.88	115.44	122.15
1	kP	161	PHE	CA-C-N	5.88	128.16	120.28
1	kP	161	PHE	C-N-CA	5.88	128.16	120.28
1	l6	155	GLN	CA-C-O	5.88	127.69	120.92
1	lu	63	GLN	CA-C-O	5.88	126.73	119.97
1	lC	185	MET	CG-SD-CE	-5.88	87.96	100.90
1	2b	166	ASP	CA-CB-CG	-5.88	106.72	112.60
1	2D	32	PHE	O-C-N	-5.88	116.36	123.13
1	2R	33	SER	O-C-N	-5.88	113.69	121.34
1	2V	162	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	3v	102	SER	O-C-N	-5.88	114.55	122.43
1	3F	145	TYR	N-CA-CB	-5.88	101.44	110.44
1	3G	12	HIS	CA-C-O	-5.88	114.04	120.81
1	3S	29	GLU	O-C-N	-5.88	115.97	122.09
1	3U	90	PRO	CA-C-N	5.88	130.48	123.19
1	3U	90	PRO	C-N-CA	5.88	130.48	123.19
1	40	126	VAL	CA-CB-CG1	-5.88	100.40	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4f	155	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	4m	159	GLU	CA-C-N	5.88	126.38	120.14
1	4m	159	GLU	C-N-CA	5.88	126.38	120.14
1	4s	5	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	4L	148	THR	O-C-N	-5.88	117.32	123.56
1	58	148	THR	O-C-N	-5.88	116.68	123.33
1	5c	33	SER	O-C-N	-5.88	115.95	121.72
1	5I	189	LEU	CA-C-N	5.88	128.48	120.54
1	5I	189	LEU	C-N-CA	5.88	128.48	120.54
1	5V	195	ASN	CA-CB-CG	5.88	118.48	112.60
1	6u	30	LYS	N-CA-C	5.88	120.47	112.88
1	6A	135	ILE	N-CA-C	5.88	116.07	110.42
1	73	85	PRO	N-CA-CB	5.88	108.24	103.36
1	7R	51	ASP	N-CA-C	5.88	117.36	111.07
1	83	57	ASN	CA-C-O	5.88	126.79	120.55
1	8w	144	MET	N-CA-CB	-5.88	101.45	110.16
1	8A	43	LEU	N-CA-C	-5.88	106.10	113.28
1	ag	11	VAL	N-CA-CB	5.88	116.94	110.53
1	ak	184	TRP	O-C-N	-5.88	116.01	122.07
1	b0	193	ASN	CA-C-N	5.88	133.90	122.07
1	b0	193	ASN	C-N-CA	5.88	133.90	122.07
1	b6	34	PRO	N-CA-C	5.88	121.49	113.84
1	17	92	GLU	CA-C-O	-5.88	113.81	120.46
1	bm	71	GLU	CB-CG-CD	5.88	122.60	112.60
1	bp	71	GLU	O-C-N	-5.88	115.03	122.27
1	cn	53	ASN	CA-CB-CG	-5.88	106.72	112.60
1	cv	144	MET	CG-SD-CE	-5.88	87.96	100.90
1	cK	110	THR	CA-C-N	5.88	128.09	120.44
1	cK	110	THR	C-N-CA	5.88	128.09	120.44
1	cL	185	MET	N-CA-C	5.88	117.69	111.28
1	cM	24	VAL	N-CA-C	5.88	116.62	110.62
1	cS	173	ARG	N-CA-C	5.88	118.64	111.82
1	d8	82	ARG	O-C-N	-5.88	115.89	122.12
1	dz	188	THR	CA-C-O	5.88	128.92	120.51
1	1m	68	MET	CA-C-N	5.88	128.42	120.65
1	1m	68	MET	C-N-CA	5.88	128.42	120.65
1	dJ	19	THR	N-CA-C	5.88	118.17	111.11
1	dK	79	GLU	O-C-N	5.88	128.36	122.12
1	dL	18	ARG	NE-CZ-NH2	5.88	124.49	119.20
1	dN	23	TRP	CA-C-N	5.88	128.52	120.46
1	dN	23	TRP	C-N-CA	5.88	128.52	120.46
1	dS	96	MET	N-CA-C	5.88	118.87	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	87	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	eo	96	MET	N-CA-C	5.88	119.35	110.64
1	ey	222	GLY	O-C-N	-5.88	114.88	122.29
1	eC	213	GLU	N-CA-C	5.88	117.69	111.28
1	eW	53	ASN	CA-CB-CG	-5.88	106.72	112.60
1	fk	124	ILE	CA-C-O	-5.88	115.38	119.38
1	fH	48	THR	N-CA-CB	5.88	116.56	109.74
1	q	76	GLU	CA-C-N	5.88	128.09	120.44
1	q	76	GLU	C-N-CA	5.88	128.09	120.44
1	gd	22	ALA	CA-C-N	5.88	128.09	120.44
1	gd	22	ALA	C-N-CA	5.88	128.09	120.44
1	gf	156	GLY	CA-C-O	-5.88	113.11	121.52
1	gf	195	ASN	CA-C-N	5.88	127.19	119.84
1	gf	195	ASN	C-N-CA	5.88	127.19	119.84
1	gh	166	ASP	CA-CB-CG	5.88	118.48	112.60
1	gn	84	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	gp	136	LEU	O-C-N	-5.88	115.89	122.12
1	gp	139	ASN	OD1-CG-ND2	5.88	128.48	122.60
1	gq	24	VAL	CA-C-N	5.88	128.16	120.28
1	gq	24	VAL	C-N-CA	5.88	128.16	120.28
1	gs	143	ARG	O-C-N	-5.88	116.01	122.07
1	1F	226	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	gS	166	ASP	CA-CB-CG	-5.88	106.72	112.60
1	gY	140	LYS	O-C-N	-5.88	115.34	122.22
1	h2	107	THR	N-CA-C	5.88	117.36	111.07
1	h5	136	LEU	O-C-N	-5.88	115.89	122.12
1	h5	173	ARG	CA-C-O	5.88	126.78	120.55
1	h8	42	ALA	O-C-N	-5.88	115.44	122.15
1	ha	41	SER	CB-CA-C	5.88	120.11	110.88
1	1I	210	THR	N-CA-C	5.88	118.47	110.35
1	hm	118	MET	O-C-N	-5.88	115.89	122.12
1	1J	51	ASP	CA-C-O	5.88	126.66	120.42
1	hz	115	ILE	CA-C-O	5.88	126.60	120.25
1	hV	24	VAL	N-CA-CB	5.88	117.82	110.47
1	hZ	83	LEU	N-CA-C	5.88	117.69	111.28
1	i3	15	ILE	O-C-N	-5.88	116.26	122.67
1	ic	115	ILE	N-CA-C	5.88	116.54	110.36
1	ir	51	ASP	O-C-N	-5.88	116.01	122.07
1	1Q	179	GLN	O-C-N	-5.88	115.89	122.12
1	j2	193	ASN	N-CA-C	5.88	120.32	113.20
1	jA	12	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	1X	183	ASN	CA-CB-CG	-5.88	106.72	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jQ	158	LYS	O-C-N	-5.88	114.61	122.49
1	k6	56	LEU	N-CA-C	5.88	117.69	111.28
1	kp	59	VAL	CA-C-O	-5.88	114.94	121.23
1	ku	66	MET	N-CA-CB	5.88	118.60	110.07
1	kS	226	HIS	N-CA-C	5.88	123.33	110.80
1	la	61	GLY	CA-C-O	-5.88	115.23	122.82
1	le	18	ARG	CG-CD-NE	-5.88	99.06	112.00
1	lg	184	TRP	CA-C-O	5.88	126.78	120.55
1	lk	18	ARG	CA-C-O	5.88	126.78	120.55
1	lF	85	PRO	CB-CA-C	5.88	118.68	110.98
1	lR	75	GLU	N-CA-C	5.88	118.45	111.33
1	2c	156	GLY	CA-C-N	5.88	125.42	119.19
1	2c	156	GLY	C-N-CA	5.88	125.42	119.19
1	2x	93	PRO	O-C-N	-5.88	115.67	122.85
1	2C	226	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	2G	217	ALA	N-CA-C	5.88	118.12	110.53
1	2X	171	THR	O-C-N	-5.88	115.74	122.09
1	35	104	ILE	CB-CA-C	5.88	120.08	112.14
1	3g	226	HIS	O-C-N	-5.88	116.35	122.94
1	3w	132	ARG	NE-CZ-NH2	5.88	124.49	119.20
1	3A	165	VAL	N-CA-C	5.88	116.62	110.62
1	3P	68	MET	CG-SD-CE	-5.88	87.96	100.90
1	43	210	THR	O-C-N	-5.88	116.31	122.96
1	4i	180	GLU	CA-C-O	5.88	126.98	120.63
1	4y	54	THR	CA-C-N	5.88	128.09	120.44
1	4y	54	THR	C-N-CA	5.88	128.09	120.44
1	4A	33	SER	CA-C-O	-5.88	113.68	120.03
1	4H	170	LYS	O-C-N	-5.88	114.34	122.46
1	4I	9	GLN	N-CA-C	5.88	117.89	110.24
1	4K	189	LEU	CA-C-N	5.88	128.97	120.79
1	4K	189	LEU	C-N-CA	5.88	128.97	120.79
1	4Q	111	LEU	CA-C-O	5.88	127.19	120.90
1	4T	210	THR	CA-CB-OG1	5.88	118.42	109.60
1	4V	67	GLN	OE1-CD-NE2	5.88	128.48	122.60
1	4W	156	GLY	O-C-N	-5.88	115.89	121.77
1	52	135	ILE	N-CA-C	5.88	116.54	110.36
1	53	177	ALA	CA-C-O	5.88	127.68	121.33
1	5b	194	ALA	O-C-N	-5.88	115.47	122.65
1	5y	212	GLU	CA-C-O	-5.88	114.31	120.55
1	5I	197	ASP	O-C-N	-5.88	115.89	122.12
1	6K	26	VAL	N-CA-C	5.88	116.07	110.42
1	6X	141	ILE	O-C-N	-5.88	116.16	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	77	110	THR	O-C-N	-5.88	115.80	122.68
1	7o	4	GLN	CB-CA-C	-5.88	101.30	111.30
1	7C	207	PRO	CA-C-N	5.88	130.94	122.35
1	7C	207	PRO	C-N-CA	5.88	130.94	122.35
1	7H	153	ILE	CB-CA-C	5.88	118.20	110.91
1	7W	55	MET	N-CA-C	5.88	117.36	111.07
1	82	28	GLU	CA-C-N	5.88	128.44	120.44
1	82	28	GLU	C-N-CA	5.88	128.44	120.44
1	8h	139	ASN	N-CA-C	5.88	117.69	111.28
1	8j	95	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	8m	16	SER	CA-C-N	5.88	125.75	119.28
1	8m	16	SER	C-N-CA	5.88	125.75	119.28
1	8U	62	HIS	CG-CD2-NE2	-5.88	101.32	107.20
1	9i	19	THR	N-CA-C	5.88	117.69	111.28
1	9q	36	VAL	O-C-N	-5.88	115.77	121.83
1	9s	54	THR	O-C-N	-5.88	115.89	122.12
1	9E	135	ILE	CA-C-N	5.88	128.09	120.44
1	9E	135	ILE	C-N-CA	5.88	128.09	120.44
1	9R	221	VAL	N-CA-C	5.88	116.62	110.62
1	a1	161	PHE	CB-CA-C	5.88	120.85	110.85
1	a5	117	TRP	O-C-N	-5.88	115.44	122.15
1	ae	179	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	ah	225	GLY	CA-C-N	5.88	130.54	120.72
1	ah	225	GLY	C-N-CA	5.88	130.54	120.72
1	ao	106	GLY	N-CA-C	5.88	122.89	115.42
1	aq	199	LYS	CA-C-N	5.88	128.16	120.28
1	aq	199	LYS	C-N-CA	5.88	128.16	120.28
1	as	154	ARG	CA-C-N	5.88	129.06	120.71
1	as	154	ARG	C-N-CA	5.88	129.06	120.71
1	aL	115	ILE	O-C-N	-5.88	115.22	122.57
1	aQ	97	ARG	N-CA-C	5.88	118.79	110.50
1	be	43	LEU	N-CA-CB	-5.88	100.10	110.39
1	bl	190	LEU	CA-C-O	5.88	123.86	119.68
1	bo	136	LEU	CA-C-O	5.88	126.78	120.55
1	br	9	GLN	CA-C-O	-5.88	114.98	121.33
1	bN	195	ASN	O-C-N	-5.88	115.19	121.42
1	1b	62	HIS	CG-CD2-NE2	-5.88	101.32	107.20
1	bX	115	ILE	CA-C-N	5.88	126.51	119.98
1	bX	115	ILE	C-N-CA	5.88	126.51	119.98
1	ch	9	GLN	O-C-N	-5.88	116.45	123.27
1	cs	132	ARG	O-C-N	-5.88	115.89	122.12
1	cF	20	LEU	O-C-N	-5.88	115.45	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cF	27	VAL	O-C-N	-5.88	115.78	121.90
1	d1	5	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	db	195	ASN	N-CA-C	5.88	118.02	109.84
1	dh	22	ALA	CA-C-O	5.88	126.66	120.42
1	dl	16	SER	N-CA-C	5.88	117.95	109.48
1	do	170	LYS	CA-C-N	5.88	128.48	120.54
1	do	170	LYS	C-N-CA	5.88	128.48	120.54
1	ds	119	THR	CA-C-N	5.88	129.19	120.90
1	ds	119	THR	C-N-CA	5.88	129.19	120.90
1	dB	95	GLN	N-CA-CB	-5.88	101.05	110.46
1	dH	187	GLU	O-C-N	-5.88	115.29	122.11
1	dN	95	GLN	CA-C-N	5.88	129.06	120.71
1	dN	95	GLN	C-N-CA	5.88	129.06	120.71
1	dP	183	ASN	CB-CG-ND2	5.88	125.22	116.40
1	dQ	82	ARG	CG-CD-NE	-5.88	99.06	112.00
1	1n	50	GLN	OE1-CD-NE2	5.88	128.48	122.60
1	dZ	97	ARG	CG-CD-NE	-5.88	99.06	112.00
1	e6	196	PRO	CA-C-N	5.88	128.16	120.28
1	e6	196	PRO	C-N-CA	5.88	128.16	120.28
1	1p	74	ASN	CA-C-O	-5.88	114.31	120.55
1	eg	76	GLU	CA-C-N	5.88	128.48	120.54
1	eg	76	GLU	C-N-CA	5.88	128.48	120.54
1	et	195	ASN	CB-CA-C	5.88	117.91	109.26
1	ez	169	TYR	CA-C-O	-5.88	114.19	120.42
1	eA	154	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	eD	93	PRO	O-C-N	-5.88	114.70	122.64
1	eT	15	ILE	N-CA-C	5.88	117.31	109.37
1	f6	219	GLN	CA-C-O	5.88	126.89	119.95
1	fq	74	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	fv	202	LEU	CA-C-N	5.88	128.44	120.38
1	fv	202	LEU	C-N-CA	5.88	128.44	120.38
1	fA	57	ASN	CA-CB-CG	-5.88	106.72	112.60
1	fW	126	VAL	CA-CB-CG2	5.88	120.40	110.40
1	fY	6	LEU	N-CA-C	-5.88	105.87	113.16
1	g7	42	ALA	CA-C-N	5.88	128.16	120.28
1	g7	42	ALA	C-N-CA	5.88	128.16	120.28
1	C	85	PRO	CA-C-N	5.88	130.03	121.80
1	C	85	PRO	C-N-CA	5.88	130.03	121.80
1	C	156	GLY	CA-C-N	5.88	125.42	119.19
1	C	156	GLY	C-N-CA	5.88	125.42	119.19
1	L	56	LEU	N-CA-C	5.88	117.36	111.07
1	6	122	PRO	CA-C-N	5.88	125.89	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	122	PRO	C-N-CA	5.88	125.89	119.89
1	gf	28	GLU	N-CA-C	5.88	117.69	111.28
1	gS	20	LEU	CA-C-N	5.88	128.08	120.44
1	gS	20	LEU	C-N-CA	5.88	128.08	120.44
1	hs	175	GLU	CA-CB-CG	5.88	125.86	114.10
1	hI	188	THR	CA-C-N	5.88	128.08	120.44
1	hI	188	THR	C-N-CA	5.88	128.08	120.44
1	hL	227	LYS	N-CA-C	5.88	119.11	109.76
1	1R	129	ILE	CA-C-O	-5.88	114.94	121.17
1	iM	186	THR	CA-C-O	5.88	126.73	119.97
1	iS	11	VAL	O-C-N	-5.88	116.51	123.04
1	jt	167	ARG	CA-C-O	5.88	126.78	120.55
1	jw	39	MET	CG-SD-CE	-5.88	87.96	100.90
1	jA	150	ILE	O-C-N	-5.88	115.93	121.87
1	jB	189	LEU	N-CA-CB	-5.88	101.48	110.12
1	kR	79	GLU	CA-C-O	5.88	126.73	119.97
1	l0	202	LEU	O-C-N	-5.88	115.89	122.12
1	lc	211	LEU	O-C-N	-5.88	115.89	122.12
1	2l	131	LYS	CA-C-O	-5.88	114.65	120.82
1	3Y	84	HIS	CB-CG-CD2	5.88	138.84	131.20
1	49	130	TYR	CB-CA-C	5.88	120.55	110.79
1	4I	87	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	4U	14	ALA	CA-C-N	5.88	128.38	120.50
1	4U	14	ALA	C-N-CA	5.88	128.38	120.50
1	4V	175	GLU	N-CA-CB	-5.88	100.83	110.41
1	6I	229	ARG	CA-C-N	5.88	128.38	120.50
1	6I	229	ARG	C-N-CA	5.88	128.38	120.50
1	6O	128	GLU	CB-CG-CD	5.88	122.60	112.60
1	7D	166	ASP	CA-C-O	5.88	127.00	120.82
1	7Y	34	PRO	CA-C-N	5.88	128.97	120.38
1	7Y	34	PRO	C-N-CA	5.88	128.97	120.38
1	89	156	GLY	CA-C-N	5.88	125.50	119.56
1	89	156	GLY	C-N-CA	5.88	125.50	119.56
1	8d	136	LEU	CA-C-O	5.88	127.19	120.90
1	8S	178	SER	O-C-N	-5.88	116.09	122.79
1	9o	145	TYR	CA-C-O	5.88	127.88	120.65
1	9r	145	TYR	CA-CB-CG	-5.88	103.31	113.90
1	9v	68	MET	CA-C-N	5.88	128.48	120.54
1	9v	68	MET	C-N-CA	5.88	128.48	120.54
1	9P	127	GLY	O-C-N	-5.88	116.01	122.24
1	a3	199	LYS	CA-C-N	5.88	130.54	121.19
1	a3	199	LYS	C-N-CA	5.88	130.54	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a8	21	ASN	CA-C-N	5.88	128.16	120.28
1	a8	21	ASN	C-N-CA	5.88	128.16	120.28
1	a8	137	GLY	N-CA-C	5.88	119.61	112.49
1	13	31	ALA	N-CA-C	5.88	118.17	111.11
1	aY	144	MET	CA-C-O	-5.88	113.46	120.10
1	bc	84	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	cs	147	PRO	CB-CA-C	-5.88	101.86	111.56
1	cY	143	ARG	CA-C-N	5.88	128.09	120.44
1	cY	143	ARG	C-N-CA	5.88	128.09	120.44
1	dM	22	ALA	CA-C-N	5.88	128.08	120.44
1	dM	22	ALA	C-N-CA	5.88	128.08	120.44
1	1p	148	THR	N-CA-CB	5.88	119.04	109.69
1	eu	159	GLU	O-C-N	-5.88	116.07	121.30
1	g3	119	THR	N-CA-CB	5.88	118.41	110.59
1	g6	23	TRP	CB-CA-C	5.88	120.55	110.79
1	0	98	GLU	O-C-N	-5.88	114.56	121.32
1	h	92	GLU	CB-CA-C	5.88	116.41	109.47
1	v	173	ARG	N-CA-C	5.88	117.69	111.28
1	v	186	THR	O-C-N	-5.88	116.01	122.07
1	w	143	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	3	195	ASN	CA-C-O	-5.88	114.58	120.64
1	ge	117	TRP	N-CA-CB	5.88	118.86	110.16
1	1D	100	ARG	NE-CZ-NH2	5.88	124.49	119.20
1	gz	16	SER	N-CA-C	5.88	117.48	110.07
1	gI	17	PRO	N-CA-C	-5.88	106.01	114.18
1	gP	79	GLU	O-C-N	-5.88	115.89	122.12
1	gV	19	THR	N-CA-C	5.88	117.69	111.28
1	hc	92	GLU	O-C-N	-5.88	115.06	121.53
1	hh	197	ASP	CA-C-N	5.88	128.08	120.44
1	hh	197	ASP	C-N-CA	5.88	128.08	120.44
1	hi	178	SER	O-C-N	-5.88	115.87	122.75
1	1J	143	ARG	CA-C-O	5.88	126.65	120.42
1	hv	136	LEU	CA-C-O	5.88	126.78	120.55
1	hy	156	GLY	O-C-N	-5.88	115.89	121.77
1	hG	16	SER	N-CA-C	5.88	118.14	109.50
1	hL	203	LYS	O-C-N	-5.88	114.35	122.46
1	hN	57	ASN	N-CA-C	5.88	120.18	112.89
1	1M	66	MET	N-CA-C	5.88	117.69	111.28
1	hY	84	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	i0	201	ILE	N-CA-C	5.88	116.06	110.53
1	i4	142	VAL	N-CA-C	5.88	116.06	110.42
1	1P	102	SER	CA-C-N	5.88	128.64	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1P	102	SER	C-N-CA	5.88	128.64	120.29
1	iH	114	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	jd	106	GLY	CA-C-O	5.88	125.65	119.07
1	jr	53	ASN	CA-CB-CG	-5.88	106.72	112.60
1	jU	30	LYS	CA-C-O	5.88	126.77	120.24
1	k1	29	GLU	N-CA-C	5.88	117.77	111.36
1	k1	91	ILE	CA-C-N	5.88	129.59	120.60
1	k1	91	ILE	C-N-CA	5.88	129.59	120.60
1	kg	82	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	kn	181	VAL	CA-C-N	5.88	128.16	120.28
1	kn	181	VAL	C-N-CA	5.88	128.16	120.28
1	kB	229	ARG	O-C-N	-5.88	115.72	123.13
1	kM	88	ALA	N-CA-C	5.88	118.53	110.24
1	kO	3	VAL	CB-CA-C	5.88	119.75	110.52
1	26	75	GLU	CA-C-N	5.88	128.16	120.28
1	26	75	GLU	C-N-CA	5.88	128.16	120.28
1	l9	151	LEU	O-C-N	-5.88	115.34	122.22
1	ld	184	TRP	CA-C-O	5.88	126.78	120.55
1	lh	43	LEU	N-CA-C	5.88	120.06	113.01
1	lr	12	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	lt	62	HIS	ND1-CG-CD2	5.88	111.98	106.10
1	lQ	91	ILE	CA-C-N	5.88	128.56	120.39
1	lQ	91	ILE	C-N-CA	5.88	128.56	120.39
1	lQ	162	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	2b	67	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	36	3	VAL	CA-C-N	5.88	132.77	121.54
1	36	3	VAL	C-N-CA	5.88	132.77	121.54
1	3t	160	PRO	N-CD-CG	5.88	112.02	103.20
1	41	75	GLU	O-C-N	5.88	128.12	122.07
1	49	59	VAL	CB-CA-C	-5.88	102.01	111.59
1	4V	89	GLY	CA-C-N	5.88	127.19	119.84
1	4V	89	GLY	C-N-CA	5.88	127.19	119.84
1	5m	5	ASN	N-CA-C	-5.88	101.14	109.96
1	5Z	100	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	5Z	217	ALA	CA-C-N	5.88	132.77	121.54
1	5Z	217	ALA	C-N-CA	5.88	132.77	121.54
1	63	15	ILE	N-CA-C	5.88	121.57	109.34
1	65	110	THR	CA-CB-OG1	5.88	118.42	109.60
1	6H	132	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	72	201	ILE	CA-C-O	5.88	127.06	120.95
1	73	184	TRP	CA-C-O	-5.88	114.19	120.42
1	73	209	ALA	N-CA-C	5.88	118.53	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7u	17	PRO	CA-C-N	5.88	128.64	120.29
1	7u	17	PRO	C-N-CA	5.88	128.64	120.29
1	7u	173	ARG	N-CA-C	5.88	117.69	111.28
1	7E	137	GLY	O-C-N	-5.88	116.55	122.19
1	86	144	MET	N-CA-C	5.88	117.36	111.07
1	87	65	ALA	N-CA-C	5.88	117.36	111.07
1	8m	178	SER	N-CA-C	5.88	117.88	110.24
1	8t	219	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	8C	167	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	8Z	183	ASN	N-CA-C	5.88	117.36	111.07
1	96	181	VAL	CA-C-O	-5.88	114.84	120.95
1	98	97	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	9F	211	LEU	CA-C-O	5.88	126.60	119.49
1	9H	32	PHE	O-C-N	5.88	130.06	122.71
1	9I	102	SER	N-CA-C	5.88	117.69	111.28
1	9S	70	LYS	N-CA-CB	5.88	118.53	110.01
1	9U	125	PRO	O-C-N	-5.88	114.92	122.44
1	9W	146	SER	CA-C-O	-5.88	115.00	119.59
1	ap	226	HIS	N-CA-C	-5.88	105.42	112.59
1	aq	58	THR	CA-C-O	-5.88	114.32	120.55
1	ar	39	MET	N-CA-C	5.88	117.77	111.36
1	aw	20	LEU	CA-C-N	5.88	128.16	120.28
1	aw	20	LEU	C-N-CA	5.88	128.16	120.28
1	aK	42	ALA	CA-C-N	5.88	130.01	120.60
1	aK	42	ALA	C-N-CA	5.88	130.01	120.60
1	aW	87	HIS	CA-CB-CG	-5.88	107.92	113.80
1	bb	92	GLU	N-CA-C	5.88	122.80	109.81
1	bg	70	LYS	N-CA-C	5.88	117.69	111.28
1	bH	151	LEU	CA-C-O	5.88	126.78	120.55
1	bV	85	PRO	N-CA-C	5.88	120.31	111.14
1	bZ	104	ILE	O-C-N	-5.88	115.78	121.83
1	c4	48	THR	CA-CB-OG1	5.88	118.42	109.60
1	c4	97	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	c5	170	LYS	CA-C-N	5.88	128.08	120.44
1	c5	170	LYS	C-N-CA	5.88	128.08	120.44
1	cP	84	HIS	CA-CB-CG	-5.88	107.92	113.80
1	cY	66	MET	CA-C-O	5.88	126.73	119.97
1	d9	46	GLY	O-C-N	-5.88	115.06	122.70
1	de	226	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	df	226	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	dj	141	ILE	N-CA-CB	5.88	117.03	110.62
1	du	160	PRO	N-CA-C	5.88	120.46	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dK	195	ASN	O-C-N	-5.88	115.57	121.27
1	dK	214	MET	CG-SD-CE	-5.88	87.97	100.90
1	dP	47	ALA	O-C-N	-5.88	115.66	122.95
1	dP	226	HIS	CA-C-N	5.88	130.48	122.19
1	dP	226	HIS	C-N-CA	5.88	130.48	122.19
1	dW	50	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	en	136	LEU	N-CA-C	5.88	118.64	111.82
1	1u	218	CYS	O-C-N	-5.88	114.77	122.59
1	fs	84	HIS	O-C-N	-5.88	114.42	121.12
1	fv	26	VAL	CA-C-N	5.88	127.97	120.56
1	fv	26	VAL	C-N-CA	5.88	127.97	120.56
1	fv	226	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	1z	163	ASP	CA-C-N	5.88	128.16	120.28
1	1z	163	ASP	C-N-CA	5.88	128.16	120.28
1	fX	205	LEU	CA-C-N	5.88	131.10	121.87
1	fX	205	LEU	C-N-CA	5.88	131.10	121.87
1	1B	181	VAL	CA-CB-CG1	5.88	120.39	110.40
1	1B	205	LEU	CA-C-O	5.88	126.60	119.31
1	1B	213	GLU	N-CA-C	5.88	117.36	111.07
1	0	21	ASN	CB-CA-C	5.88	120.22	110.81
1	f	74	ASN	CA-CB-CG	5.88	118.48	112.60
1	u	34	PRO	CA-C-N	5.88	130.54	120.72
1	u	34	PRO	C-N-CA	5.88	130.54	120.72
1	C	214	MET	CA-C-N	5.88	128.96	120.79
1	C	214	MET	C-N-CA	5.88	128.96	120.79
1	D	4	GLN	O-C-N	-5.88	115.72	123.13
1	3	98	GLU	CB-CA-C	5.88	116.84	110.08
1	G	7	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	4	130	TYR	CA-C-N	5.88	128.64	120.29
1	4	130	TYR	C-N-CA	5.88	128.64	120.29
1	ga	162	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	gf	54	THR	N-CA-C	5.88	117.77	111.36
1	gk	7	GLN	CG-CD-NE2	5.88	125.22	116.40
1	gp	226	HIS	CA-C-N	5.88	129.72	121.02
1	gp	226	HIS	C-N-CA	5.88	129.72	121.02
1	gq	5	ASN	CA-C-N	5.88	128.15	120.28
1	gq	5	ASN	C-N-CA	5.88	128.15	120.28
1	gu	77	ALA	CA-C-N	5.88	128.16	120.28
1	gu	77	ALA	C-N-CA	5.88	128.16	120.28
1	gF	141	ILE	N-CA-C	5.88	116.61	110.62
1	gH	171	THR	CA-C-N	5.88	128.74	120.28
1	gH	171	THR	C-N-CA	5.88	128.74	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gK	211	LEU	CA-C-N	5.88	128.16	120.28
1	gK	211	LEU	C-N-CA	5.88	128.16	120.28
1	gN	9	GLN	O-C-N	-5.88	115.92	122.86
1	gY	5	ASN	CA-C-N	5.88	128.74	120.28
1	gY	5	ASN	C-N-CA	5.88	128.74	120.28
1	h0	121	ASN	CA-C-O	-5.88	113.70	119.69
1	h5	101	GLY	O-C-N	-5.88	116.55	122.19
1	h9	82	ARG	N-CA-C	5.88	117.55	111.03
1	hB	177	ALA	CA-C-N	5.88	129.62	120.75
1	hB	177	ALA	C-N-CA	5.88	129.62	120.75
1	hJ	193	ASN	N-CA-C	-5.88	105.77	113.17
1	hV	179	GLN	CA-C-N	5.88	128.08	120.44
1	hV	179	GLN	C-N-CA	5.88	128.08	120.44
1	i5	29	GLU	O-C-N	-5.88	115.70	121.93
1	ia	103	ASP	CA-CB-CG	-5.88	106.72	112.60
1	il	64	ALA	CA-C-O	5.88	126.14	119.27
1	1Q	84	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	iK	112	GLN	N-CA-C	5.88	117.36	111.07
1	jc	19	THR	N-CA-CB	5.88	118.53	110.01
1	jd	176	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	jm	174	ALA	CA-C-O	5.88	126.14	119.27
1	jt	6	LEU	O-C-N	-5.88	115.59	121.88
1	jK	140	LYS	O-C-N	-5.88	116.02	122.07
1	jM	48	THR	CA-C-O	-5.88	114.29	120.70
1	jN	27	VAL	CA-CB-CG2	-5.88	100.41	110.40
1	jQ	70	LYS	N-CA-C	5.88	117.69	111.28
1	jV	219	GLN	CA-C-O	-5.88	114.71	121.47
1	k7	3	VAL	CA-C-O	5.88	126.59	120.36
1	20	67	GLN	N-CA-C	5.88	117.77	111.36
1	kI	217	ALA	N-CA-C	5.88	118.29	110.53
1	kM	140	LYS	N-CA-C	5.88	117.76	111.36
1	kP	112	GLN	O-C-N	-5.88	115.89	122.12
1	25	194	ALA	CA-C-N	5.88	129.03	120.51
1	25	194	ALA	C-N-CA	5.88	129.03	120.51
1	l9	210	THR	N-CA-CB	5.88	119.38	110.45
1	lf	73	ILE	N-CA-C	5.88	116.61	110.62
1	lr	90	PRO	CA-C-O	-5.88	114.92	121.32
1	lt	192	GLN	CA-C-N	5.88	130.92	122.40
1	lt	192	GLN	C-N-CA	5.88	130.92	122.40
1	lu	137	GLY	CA-C-O	-5.88	114.65	121.00
1	2v	148	THR	CA-CB-CG2	-5.88	100.51	110.50
1	2v	198	CYS	CA-C-O	-5.88	114.28	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2C	19	THR	CA-C-N	5.88	128.63	120.29
1	2C	19	THR	C-N-CA	5.88	128.63	120.29
1	2G	184	TRP	O-C-N	-5.88	115.98	122.09
1	2J	167	ARG	CA-C-N	5.88	128.96	120.79
1	2J	167	ARG	C-N-CA	5.88	128.96	120.79
1	2Q	137	GLY	N-CA-C	5.88	119.78	112.73
1	31	67	GLN	O-C-N	-5.88	115.04	122.27
1	3B	61	GLY	N-CA-C	5.88	120.12	112.25
1	3E	152	ASP	CA-CB-CG	-5.88	106.72	112.60
1	3S	28	GLU	N-CA-C	5.88	117.38	110.97
1	3W	185	MET	CG-SD-CE	-5.88	87.97	100.90
1	46	85	PRO	CA-C-N	5.88	128.45	120.63
1	46	85	PRO	C-N-CA	5.88	128.45	120.63
1	49	229	ARG	NE-CZ-NH1	5.88	127.38	121.50
1	4x	166	ASP	CA-CB-CG	5.88	118.48	112.60
1	4L	95	GLN	O-C-N	-5.88	114.77	122.59
1	4N	159	GLU	CA-C-N	5.88	127.19	119.84
1	4N	159	GLU	C-N-CA	5.88	127.19	119.84
1	51	120	HIS	ND1-CE1-NE2	5.88	114.28	108.40
1	58	138	LEU	N-CA-C	5.88	118.47	111.71
1	5d	159	GLU	O-C-N	-5.88	115.25	121.30
1	5e	187	GLU	N-CA-CB	-5.88	101.89	110.47
1	5q	196	PRO	CA-C-N	5.88	129.24	120.31
1	5q	196	PRO	C-N-CA	5.88	129.24	120.31
1	5z	32	PHE	CB-CG-CD1	-5.88	110.71	120.70
1	5O	10	MET	CG-SD-CE	-5.88	87.97	100.90
1	5S	25	LYS	CA-C-O	5.88	126.65	120.42
1	6d	25	LYS	CA-C-N	5.88	128.51	120.46
1	6d	25	LYS	C-N-CA	5.88	128.51	120.46
1	6p	82	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	6x	152	ASP	CA-C-N	5.88	128.37	120.50
1	6x	152	ASP	C-N-CA	5.88	128.37	120.50
1	6y	29	GLU	N-CA-CB	5.88	118.59	110.07
1	6A	192	GLN	OE1-CD-NE2	5.88	128.48	122.60
1	6B	18	ARG	N-CA-C	5.88	117.69	111.28
1	6U	197	ASP	CA-C-O	5.88	126.72	119.79
1	7j	67	GLN	CG-CD-OE1	-5.88	109.05	120.80
1	7O	58	THR	CA-C-N	5.88	131.56	121.63
1	7O	58	THR	C-N-CA	5.88	131.56	121.63
1	7Q	180	GLU	N-CA-C	5.88	117.69	111.28
1	8e	116	GLY	CA-C-N	5.88	128.15	120.28
1	8e	116	GLY	C-N-CA	5.88	128.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	82	ARG	CA-C-N	5.88	130.67	120.68
1	8h	82	ARG	C-N-CA	5.88	130.67	120.68
1	8s	229	ARG	N-CA-C	5.88	118.86	110.10
1	8G	27	VAL	CB-CA-C	-5.88	102.74	112.26
1	8K	20	LEU	N-CA-C	5.88	117.36	111.07
1	8S	173	ARG	CA-C-O	5.88	126.74	120.10
1	8V	216	THR	CA-C-O	5.88	126.60	119.31
1	9b	223	GLY	CA-C-N	5.88	127.19	119.84
1	9b	223	GLY	C-N-CA	5.88	127.19	119.84
1	9e	170	LYS	O-C-N	-5.88	115.89	122.12
1	9F	184	TRP	N-CA-CB	-5.88	101.46	110.16
1	9L	229	ARG	N-CA-CB	-5.88	101.94	110.70
1	9P	115	ILE	CA-C-N	5.88	126.47	120.00
1	9P	115	ILE	C-N-CA	5.88	126.47	120.00
1	aa	204	ALA	CB-CA-C	-5.88	99.39	110.67
1	ac	226	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	ae	153	ILE	O-C-N	-5.88	116.25	122.83
1	ag	193	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	ah	210	THR	N-CA-CB	5.88	118.68	110.04
1	au	176	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	aG	80	TRP	CA-C-N	5.88	128.08	120.44
1	aG	80	TRP	C-N-CA	5.88	128.08	120.44
1	aZ	26	VAL	CA-CB-CG1	5.88	120.39	110.40
1	b4	143	ARG	CA-C-N	5.88	128.15	120.28
1	b4	143	ARG	C-N-CA	5.88	128.15	120.28
1	bs	152	ASP	CA-C-N	5.88	130.35	122.01
1	bs	152	ASP	C-N-CA	5.88	130.35	122.01
1	bE	138	LEU	N-CA-C	5.88	118.16	111.11
1	bF	33	SER	CA-C-O	-5.88	115.21	120.56
1	bJ	143	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	bJ	170	LYS	N-CA-C	5.88	117.36	111.07
1	bJ	226	HIS	O-C-N	-5.88	114.78	122.59
1	bP	4	GLN	OE1-CD-NE2	-5.88	116.72	122.60
1	1c	132	ARG	N-CA-CB	5.88	118.70	109.94
1	cf	93	PRO	N-CA-C	5.88	120.84	111.26
1	ch	149	SER	N-CA-C	5.88	119.22	109.46
1	ck	69	LEU	N-CA-C	5.88	117.69	111.28
1	cq	32	PHE	CA-C-N	5.88	129.59	120.60
1	cq	32	PHE	C-N-CA	5.88	129.59	120.60
1	cs	81	ASP	CA-C-N	5.88	128.08	120.44
1	cs	81	ASP	C-N-CA	5.88	128.08	120.44
1	ct	158	LYS	N-CA-C	5.88	120.52	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cD	62	HIS	ND1-CG-CD2	5.88	111.98	106.10
1	cH	23	TRP	N-CA-C	5.88	117.36	111.07
1	cQ	4	GLN	O-C-N	-5.88	115.66	122.95
1	cX	39	MET	CA-C-N	5.88	128.08	120.44
1	cX	39	MET	C-N-CA	5.88	128.08	120.44
1	d8	174	ALA	CA-C-O	5.88	126.23	119.35
1	da	64	ALA	N-CA-C	5.88	117.36	111.07
1	dh	37	ILE	O-C-N	-5.88	114.40	121.10
1	dm	62	HIS	ND1-CG-CD2	5.88	111.98	106.10
1	1k	96	MET	CB-CA-C	-5.88	98.26	109.66
1	dr	223	GLY	CA-C-N	5.88	127.19	119.84
1	dr	223	GLY	C-N-CA	5.88	127.19	119.84
1	dD	91	ILE	N-CA-C	5.88	116.65	108.89
1	dF	116	GLY	CA-C-O	-5.88	114.65	121.00
1	dF	218	CYS	N-CA-CB	5.88	120.42	110.49
1	dH	201	ILE	O-C-N	-5.88	114.01	122.12
1	dT	230	VAL	N-CA-C	5.88	116.33	107.75
1	eg	182	LYS	CA-C-N	5.88	128.15	120.28
1	eg	182	LYS	C-N-CA	5.88	128.15	120.28
1	ek	230	VAL	N-CA-C	5.88	117.91	109.51
1	er	93	PRO	N-CA-C	-5.88	107.15	114.20
1	ey	131	LYS	N-CA-C	5.88	118.44	111.33
1	eC	116	GLY	N-CA-C	5.88	119.78	112.73
1	eS	74	ASN	CA-CB-CG	-5.88	106.72	112.60
1	eZ	91	ILE	CA-C-O	-5.88	114.19	120.59
1	f6	143	ARG	NE-CZ-NH2	-5.88	113.91	119.20
1	f8	188	THR	CA-CB-OG1	5.88	118.41	109.60
1	f9	11	VAL	O-C-N	-5.88	116.83	123.18
1	fp	201	ILE	CA-C-O	5.88	127.57	121.05
1	fq	189	LEU	CA-C-N	5.88	128.08	120.44
1	fq	189	LEU	C-N-CA	5.88	128.08	120.44
1	fU	209	ALA	N-CA-C	5.88	118.34	110.35
1	1B	143	ARG	CA-C-N	5.88	128.08	120.44
1	1B	143	ARG	C-N-CA	5.88	128.08	120.44
1	a	210	THR	O-C-N	-5.88	116.15	122.85
1	b	27	VAL	CA-C-O	-5.88	114.84	120.95
1	v	74	ASN	N-CA-C	5.88	117.69	111.28
1	A	92	GLU	N-CA-C	-5.88	98.71	108.23
1	G	18	ARG	NE-CZ-NH2	5.88	124.49	119.20
1	G	80	TRP	N-CA-C	5.88	117.69	111.28
1	O	3	VAL	CA-C-O	-5.88	116.27	121.09
1	Q	60	GLY	O-C-N	5.88	130.34	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	9	GLN	N-CA-C	5.88	118.29	110.53
1	g8	57	ASN	N-CA-C	5.88	120.06	113.01
1	gn	190	LEU	N-CA-C	5.88	118.16	111.11
1	gr	87	HIS	CE1-NE2-CD2	-5.88	103.12	109.00
1	gx	114	GLN	CA-C-O	-5.88	114.32	120.55
1	h3	84	HIS	CB-CA-C	-5.88	103.65	110.17
1	hp	80	TRP	CA-C-N	5.88	128.74	120.28
1	hp	80	TRP	C-N-CA	5.88	128.74	120.28
1	hB	43	LEU	N-CA-C	5.88	117.68	111.28
1	hC	48	THR	CA-C-N	5.88	127.18	119.84
1	hC	48	THR	C-N-CA	5.88	127.18	119.84
1	hH	79	GLU	O-C-N	-5.88	115.89	122.12
1	hJ	46	GLY	CA-C-N	5.88	129.10	120.82
1	hJ	46	GLY	C-N-CA	5.88	129.10	120.82
1	1Q	67	GLN	CB-CG-CD	5.88	122.59	112.60
1	j2	56	LEU	CA-C-O	5.88	126.99	120.82
1	ka	130	TYR	CA-C-N	5.88	128.15	120.28
1	ka	130	TYR	C-N-CA	5.88	128.15	120.28
1	ka	183	ASN	O-C-N	-5.88	116.02	122.07
1	kF	229	ARG	NH1-CZ-NH2	-5.88	111.66	119.30
1	l4	107	THR	CA-C-N	5.88	131.60	122.49
1	l4	107	THR	C-N-CA	5.88	131.60	122.49
1	lu	53	ASN	CA-C-N	5.88	128.08	120.44
1	lu	53	ASN	C-N-CA	5.88	128.08	120.44
1	2e	34	PRO	N-CA-C	5.88	122.33	113.81
1	2t	20	LEU	O-C-N	5.88	128.35	122.12
1	2G	13	GLN	N-CA-CB	5.88	120.25	110.85
1	2H	200	THR	O-C-N	-5.88	115.45	122.15
1	3I	48	THR	O-C-N	-5.88	115.37	121.60
1	4m	28	GLU	CB-CG-CD	5.88	122.59	112.60
1	4r	207	PRO	O-C-N	-5.88	114.71	122.64
1	5b	92	GLU	CA-C-O	-5.88	113.82	120.46
1	5n	62	HIS	O-C-N	-5.88	115.92	122.91
1	6d	106	GLY	CA-C-O	5.88	126.30	119.13
1	6n	150	ILE	CA-CB-CG1	5.88	120.39	110.40
1	6u	27	VAL	CA-C-O	5.88	127.06	120.95
1	6w	66	MET	N-CA-CB	5.88	118.76	110.12
1	6P	202	LEU	CA-C-O	5.88	126.78	120.55
1	7n	43	LEU	O-C-N	-5.88	114.35	122.46
1	7w	229	ARG	O-C-N	-5.88	114.72	122.42
1	7G	42	ALA	N-CA-C	5.88	117.36	111.07
1	8S	33	SER	CA-C-N	5.88	125.74	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	33	SER	C-N-CA	5.88	125.74	119.28
1	9b	32	PHE	CA-CB-CG	5.88	119.67	113.80
1	9o	7	GLN	N-CA-CB	-5.88	100.38	111.43
1	9o	22	ALA	CA-C-N	5.88	128.15	120.28
1	9o	22	ALA	C-N-CA	5.88	128.15	120.28
1	at	197	ASP	CA-C-N	-5.88	111.38	120.31
1	at	197	ASP	C-N-CA	-5.88	111.38	120.31
1	aF	78	ALA	CA-C-N	5.88	128.08	120.44
1	aF	78	ALA	C-N-CA	5.88	128.08	120.44
1	aM	197	ASP	CA-C-O	5.88	126.72	119.79
1	aU	29	GLU	N-CA-C	5.88	120.95	113.55
1	aV	157	PRO	N-CA-C	-5.88	107.01	114.35
1	aZ	186	THR	CA-C-O	5.88	126.73	119.97
1	bk	63	GLN	N-CA-C	5.88	120.17	112.89
1	bv	143	ARG	O-C-N	-5.88	115.45	122.15
1	bH	170	LYS	N-CA-C	5.88	117.36	111.07
1	1b	202	LEU	N-CA-C	-5.88	105.94	113.23
1	c7	12	HIS	CB-CG-CD2	-5.88	123.56	131.20
1	cq	57	ASN	OD1-CG-ND2	-5.88	116.72	122.60
1	1i	134	ILE	N-CA-C	5.88	118.43	111.09
1	da	20	LEU	CB-CA-C	-5.88	101.62	110.90
1	dc	183	ASN	CA-CB-CG	-5.88	106.72	112.60
1	dh	86	VAL	O-C-N	-5.88	116.25	122.95
1	dp	41	SER	CA-C-N	5.88	128.63	120.29
1	dp	41	SER	C-N-CA	5.88	128.63	120.29
1	dw	213	GLU	N-CA-C	5.88	117.68	111.28
1	dF	103	ASP	CA-CB-CG	5.88	118.47	112.60
1	dJ	62	HIS	CB-CG-CD2	-5.88	123.56	131.20
1	dK	121	ASN	OD1-CG-ND2	5.88	128.47	122.60
1	eg	14	ALA	O-C-N	-5.88	115.58	122.81
1	eo	190	LEU	CA-C-O	-5.88	114.65	120.70
1	eB	82	ARG	CA-C-O	5.88	127.17	121.00
1	eE	94	GLY	N-CA-C	5.88	121.51	113.99
1	f2	156	GLY	CA-C-N	5.88	126.76	120.47
1	f2	156	GLY	C-N-CA	5.88	126.76	120.47
1	f4	65	ALA	O-C-N	-5.88	115.89	122.12
1	ft	117	TRP	CD2-CE3-CZ3	5.88	126.24	118.60
1	fA	144	MET	N-CA-CB	-5.88	101.49	110.01
1	fD	196	PRO	N-CA-C	5.88	122.35	114.18
1	g0	24	VAL	CA-C-N	5.88	128.08	120.44
1	g0	24	VAL	C-N-CA	5.88	128.08	120.44
1	g2	72	THR	O-C-N	-5.88	115.98	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	169	TYR	O-C-N	-5.88	116.02	122.07
1	t	217	ALA	O-C-N	-5.88	116.02	122.07
1	N	108	THR	CA-C-O	5.88	127.66	120.55
1	gj	182	LYS	N-CA-C	5.87	117.68	111.28
1	gl	211	LEU	CA-C-N	5.87	128.43	120.38
1	gl	211	LEU	C-N-CA	5.87	128.43	120.38
1	go	87	HIS	CA-CB-CG	5.87	119.67	113.80
1	gy	54	THR	O-C-N	5.87	128.35	122.12
1	1E	87	HIS	CA-CB-CG	5.87	119.67	113.80
1	gD	143	ARG	CG-CD-NE	-5.87	99.08	112.00
1	gG	60	GLY	CA-C-N	5.87	125.68	120.10
1	gG	60	GLY	C-N-CA	5.87	125.68	120.10
1	gZ	164	TYR	N-CA-C	5.87	117.35	111.07
1	h6	70	LYS	CA-C-N	5.87	128.15	120.28
1	h6	70	LYS	C-N-CA	5.87	128.15	120.28
1	hd	223	GLY	CA-C-N	5.87	125.63	119.76
1	hd	223	GLY	C-N-CA	5.87	125.63	119.76
1	hr	192	GLN	O-C-N	-5.87	115.98	122.09
1	hu	9	GLN	OE1-CD-NE2	5.87	128.47	122.60
1	hx	195	ASN	CB-CA-C	5.87	118.84	109.62
1	1K	83	LEU	CA-C-O	-5.87	114.32	120.55
1	1M	159	GLU	CA-C-N	5.87	127.18	119.84
1	1M	159	GLU	C-N-CA	5.87	127.18	119.84
1	hV	3	VAL	CA-CB-CG1	5.87	120.39	110.40
1	hY	97	ARG	CG-CD-NE	-5.87	99.08	112.00
1	hZ	73	ILE	CA-CB-CG2	-5.87	100.52	110.50
1	i1	67	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	i7	111	LEU	CA-C-N	5.87	128.43	120.38
1	i7	111	LEU	C-N-CA	5.87	128.43	120.38
1	i7	152	ASP	O-C-N	-5.87	114.26	122.37
1	it	197	ASP	N-CA-CB	5.87	118.50	109.98
1	iJ	181	VAL	N-CA-C	5.87	116.61	110.62
1	1S	21	ASN	N-CA-C	5.87	117.68	111.28
1	iS	22	ALA	N-CA-CB	-5.87	101.47	110.16
1	jn	62	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	jw	68	MET	N-CA-CB	5.87	118.85	110.16
1	jA	18	ARG	CA-C-O	-5.87	114.32	120.55
1	jL	74	ASN	CA-CB-CG	-5.87	106.73	112.60
1	k2	5	ASN	N-CA-C	5.87	118.63	111.82
1	k2	131	LYS	CA-C-N	5.87	128.15	120.28
1	k2	131	LYS	C-N-CA	5.87	128.15	120.28
1	kh	198	CYS	CA-C-N	5.87	128.43	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	198	CYS	C-N-CA	5.87	128.43	120.38
1	ki	30	LYS	CG-CD-CE	5.87	124.81	111.30
1	ki	143	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	kl	198	CYS	O-C-N	-5.87	115.89	122.12
1	kJ	115	ILE	CB-CA-C	-5.87	104.21	112.14
1	kK	51	ASP	O-C-N	5.87	128.12	122.07
1	kO	29	GLU	N-CA-C	5.87	117.48	111.14
1	kO	110	THR	N-CA-C	-5.87	101.51	110.14
1	kQ	84	HIS	CA-CB-CG	-5.87	107.93	113.80
1	kS	15	ILE	CA-C-N	5.87	131.98	121.76
1	kS	15	ILE	C-N-CA	5.87	131.98	121.76
1	lj	53	ASN	O-C-N	-5.87	115.89	122.12
1	lo	112	GLN	CA-C-N	5.87	128.43	120.44
1	lo	112	GLN	C-N-CA	5.87	128.43	120.44
1	lp	84	HIS	CB-CG-CD2	5.87	138.84	131.20
1	28	197	ASP	CA-CB-CG	-5.87	106.73	112.60
1	lx	155	GLN	O-C-N	-5.87	115.72	122.89
1	2u	169	TYR	N-CA-CB	5.87	118.87	110.06
1	2S	51	ASP	N-CA-C	5.87	117.48	111.14
1	2V	4	GLN	N-CA-CB	-5.87	103.09	111.84
1	3A	98	GLU	O-C-N	-5.87	115.19	121.42
1	3C	183	ASN	CA-C-N	5.87	128.15	120.28
1	3C	183	ASN	C-N-CA	5.87	128.15	120.28
1	3J	171	THR	CA-C-N	5.87	128.15	120.28
1	3J	171	THR	C-N-CA	5.87	128.15	120.28
1	3K	219	GLN	CA-C-O	5.87	126.31	119.32
1	3P	173	ARG	CA-C-N	5.87	128.43	120.38
1	3P	173	ARG	C-N-CA	5.87	128.43	120.38
1	3Q	159	GLU	CA-C-N	5.87	127.18	119.84
1	3Q	159	GLU	C-N-CA	5.87	127.18	119.84
1	4n	95	GLN	CB-CG-CD	5.87	122.58	112.60
1	4I	12	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	4Q	87	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	5O	131	LYS	N-CA-CB	-5.87	101.17	110.22
1	66	57	ASN	CB-CA-C	-5.87	101.04	110.79
1	6y	21	ASN	CB-CG-ND2	5.87	125.21	116.40
1	6A	4	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	6B	155	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	6G	197	ASP	N-CA-CB	-5.87	101.47	110.16
1	6O	115	ILE	CA-C-N	5.87	126.63	119.99
1	6O	115	ILE	C-N-CA	5.87	126.63	119.99
1	6U	7	GLN	N-CA-CB	5.87	119.18	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	148	THR	CA-CB-OG1	5.87	118.41	109.60
1	7h	131	LYS	CA-C-N	5.87	128.15	120.28
1	7h	131	LYS	C-N-CA	5.87	128.15	120.28
1	7p	65	ALA	CA-C-O	-5.87	114.19	120.42
1	7A	62	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	7K	192	GLN	CA-C-O	5.87	126.17	119.18
1	7R	144	MET	O-C-N	-5.87	115.89	122.12
1	7V	179	GLN	N-CA-C	5.87	118.63	111.82
1	8t	88	ALA	N-CA-C	5.87	118.12	110.43
1	8D	19	THR	CA-C-N	5.87	128.63	120.29
1	8D	19	THR	C-N-CA	5.87	128.63	120.29
1	8L	84	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	8N	120	HIS	CB-CG-CD2	-5.87	123.56	131.20
1	8V	211	LEU	CA-C-O	5.87	126.99	120.82
1	97	149	SER	O-C-N	-5.87	116.90	123.48
1	9k	163	ASP	N-CA-C	5.87	118.63	111.82
1	9o	178	SER	CA-C-N	5.87	128.15	120.28
1	9o	178	SER	C-N-CA	5.87	128.15	120.28
1	9x	21	ASN	CA-CB-CG	-5.87	106.73	112.60
1	9E	64	ALA	CA-C-N	5.87	128.15	120.28
1	9E	64	ALA	C-N-CA	5.87	128.15	120.28
1	9I	195	ASN	O-C-N	-5.87	115.41	121.28
1	9K	1	PRO	CA-C-N	5.87	130.35	122.01
1	9K	1	PRO	C-N-CA	5.87	130.35	122.01
1	9N	68	MET	CA-C-N	5.87	128.63	120.29
1	9N	68	MET	C-N-CA	5.87	128.63	120.29
1	9W	57	ASN	CA-CB-CG	-5.87	106.73	112.60
1	af	181	VAL	CA-CB-CG2	-5.87	100.42	110.40
1	ak	187	GLU	CB-CG-CD	5.87	122.59	112.60
1	ao	204	ALA	N-CA-C	-5.87	106.28	113.50
1	ap	211	LEU	CA-C-N	5.87	128.47	120.54
1	ap	211	LEU	C-N-CA	5.87	128.47	120.54
1	12	143	ARG	CA-C-N	5.87	128.07	120.44
1	12	143	ARG	C-N-CA	5.87	128.07	120.44
1	aM	194	ALA	N-CA-C	5.87	118.34	110.35
1	aR	196	PRO	N-CA-CB	-5.87	97.08	103.25
1	aY	132	ARG	N-CA-C	5.87	117.68	111.28
1	b4	127	GLY	CA-C-N	5.87	129.63	120.82
1	b4	127	GLY	C-N-CA	5.87	129.63	120.82
1	b5	100	ARG	NE-CZ-NH1	5.87	127.37	121.50
1	bj	120	HIS	N-CA-C	-5.87	102.78	110.53
1	bs	33	SER	CA-C-N	5.87	125.42	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bs	33	SER	C-N-CA	5.87	125.42	119.19
1	bx	140	LYS	N-CA-C	5.87	117.68	111.28
1	bJ	103	ASP	N-CA-C	5.87	117.68	111.28
1	1a	203	LYS	N-CA-C	5.87	117.68	111.28
1	bW	184	TRP	N-CA-C	5.87	117.36	111.07
1	bW	225	GLY	CA-C-N	5.87	131.71	122.78
1	bW	225	GLY	C-N-CA	5.87	131.71	122.78
1	ct	41	SER	N-CA-C	5.87	117.68	111.28
1	1g	52	LEU	CA-C-N	5.87	128.43	120.38
1	1g	52	LEU	C-N-CA	5.87	128.43	120.38
1	cO	128	GLU	N-CA-C	5.87	118.44	111.33
1	cP	133	TRP	N-CA-C	5.87	118.63	111.82
1	cT	75	GLU	O-C-N	5.87	128.35	122.12
1	cY	52	LEU	N-CA-C	5.87	117.68	111.28
1	d1	2	ILE	N-CA-C	-5.87	99.89	108.11
1	d4	161	PHE	CA-C-N	5.87	129.24	120.31
1	d4	161	PHE	C-N-CA	5.87	129.24	120.31
1	d7	56	LEU	N-CA-C	5.87	117.35	111.07
1	d9	220	GLY	N-CA-C	-5.87	105.23	114.10
1	dk	20	LEU	N-CA-C	5.87	118.63	111.82
1	1k	160	PRO	O-C-N	-5.87	116.10	123.21
1	dL	97	ARG	NH1-CZ-NH2	5.87	126.94	119.30
1	dV	109	SER	O-C-N	-5.87	116.32	123.19
1	dX	73	ILE	CB-CA-C	-5.87	104.12	112.22
1	er	214	MET	CG-SD-CE	-5.87	87.98	100.90
1	eC	81	ASP	O-C-N	-5.87	115.75	122.09
1	eY	23	TRP	CB-CA-C	5.87	120.54	110.79
1	f2	1	PRO	N-CA-CB	5.87	109.46	103.00
1	f6	33	SER	N-CA-C	5.87	117.10	109.64
1	1w	132	ARG	NE-CZ-NH1	-5.87	115.63	121.50
1	fr	46	GLY	CA-C-N	5.87	129.45	121.05
1	fr	46	GLY	C-N-CA	5.87	129.45	121.05
1	ft	218	CYS	CA-C-N	5.87	129.21	120.87
1	ft	218	CYS	C-N-CA	5.87	129.21	120.87
1	fu	161	PHE	N-CA-C	5.87	117.68	111.28
1	fD	166	ASP	N-CA-C	5.87	117.68	111.28
1	fO	75	GLU	N-CA-C	5.87	117.36	111.07
1	fS	166	ASP	CB-CA-C	5.87	120.10	110.88
1	fT	109	SER	CA-C-N	5.87	130.16	120.94
1	fT	109	SER	C-N-CA	5.87	130.16	120.94
1	g5	191	VAL	CA-C-N	5.87	128.15	120.28
1	g5	191	VAL	C-N-CA	5.87	128.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	2	ILE	N-CA-CB	5.87	117.12	110.72
1	c	14	ALA	N-CA-C	5.87	118.34	110.35
1	o	78	ALA	CA-C-O	-5.87	114.19	120.42
1	x	175	GLU	O-C-N	-5.87	115.89	122.12
1	T	114	GLN	N-CA-CB	5.87	118.53	110.01
1	V	37	ILE	N-CA-C	5.87	121.57	108.88
1	gx	41	SER	N-CA-C	5.87	118.44	111.33
1	gA	86	VAL	N-CA-C	5.87	116.59	108.84
1	gB	85	PRO	N-CA-CB	-5.87	98.44	102.73
1	1I	9	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	hx	221	VAL	CB-CA-C	5.87	119.58	110.83
1	hz	12	HIS	N-CA-C	5.87	119.82	109.96
1	hH	39	MET	CA-C-N	5.87	128.15	120.28
1	hH	39	MET	C-N-CA	5.87	128.15	120.28
1	hU	229	ARG	CA-C-N	5.87	127.96	120.56
1	hU	229	ARG	C-N-CA	5.87	127.96	120.56
1	i3	186	THR	N-CA-C	5.87	117.76	111.36
1	i7	160	PRO	O-C-N	-5.87	116.58	122.98
1	io	6	LEU	N-CA-C	-5.87	105.77	113.17
1	iz	185	MET	N-CA-C	5.87	117.68	111.28
1	iC	202	LEU	N-CA-C	5.87	117.68	111.28
1	iD	11	VAL	O-C-N	-5.87	116.25	122.83
1	iT	182	LYS	CA-C-N	5.87	128.15	120.28
1	iT	182	LYS	C-N-CA	5.87	128.15	120.28
1	iY	42	ALA	N-CA-C	5.87	117.68	111.28
1	jc	102	SER	N-CA-C	5.87	118.46	111.71
1	jp	38	PRO	N-CA-CB	5.87	109.42	103.25
1	jr	186	THR	CA-C-O	5.87	126.72	119.97
1	jt	135	ILE	O-C-N	-5.87	116.16	121.91
1	jB	135	ILE	CA-C-N	5.87	128.73	120.28
1	jB	135	ILE	C-N-CA	5.87	128.73	120.28
1	jI	4	GLN	N-CA-C	5.87	119.52	110.42
1	jP	152	ASP	N-CA-C	-5.87	105.88	113.16
1	k2	48	THR	N-CA-CB	5.87	117.18	109.55
1	k2	160	PRO	N-CA-CB	5.87	108.54	103.31
1	k5	24	VAL	N-CA-CB	5.87	118.52	110.54
1	kf	216	THR	CA-C-N	5.87	129.62	120.75
1	kf	216	THR	C-N-CA	5.87	129.62	120.75
1	kg	19	THR	CA-C-N	5.87	128.07	120.44
1	kg	19	THR	C-N-CA	5.87	128.07	120.44
1	kh	74	ASN	CA-C-N	5.87	128.07	120.44
1	kh	74	ASN	C-N-CA	5.87	128.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	161	PHE	CA-C-N	5.87	128.47	120.54
1	kt	161	PHE	C-N-CA	5.87	128.47	120.54
1	ku	89	GLY	N-CA-C	5.87	124.32	112.34
1	kw	181	VAL	CB-CA-C	-5.87	104.45	111.97
1	kz	54	THR	N-CA-C	5.87	117.68	111.28
1	kQ	12	HIS	N-CA-C	5.87	118.85	110.10
1	l3	164	TYR	N-CA-C	5.87	117.35	111.07
1	l4	58	THR	N-CA-C	-5.87	105.97	113.02
1	la	150	ILE	O-C-N	-5.87	116.17	121.87
1	lc	12	HIS	CA-CB-CG	-5.87	107.93	113.80
1	li	97	ARG	CD-NE-CZ	5.87	132.62	124.40
1	lm	101	GLY	CA-C-N	5.87	128.15	120.28
1	lm	101	GLY	C-N-CA	5.87	128.15	120.28
1	lx	3	VAL	CA-C-N	5.87	129.23	120.31
1	lx	3	VAL	C-N-CA	5.87	129.23	120.31
1	lI	150	ILE	CA-C-N	5.87	128.15	120.28
1	lI	150	ILE	C-N-CA	5.87	128.15	120.28
1	lM	18	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	2l	48	THR	N-CA-CB	5.87	118.89	110.03
1	2x	212	GLU	N-CA-C	5.87	118.16	111.11
1	2O	48	THR	CA-CB-OG1	5.87	118.41	109.60
1	2R	14	ALA	N-CA-C	5.87	118.34	110.35
1	2R	103	ASP	CA-CB-CG	5.87	118.47	112.60
1	34	50	GLN	N-CA-C	5.87	117.68	111.28
1	3h	188	THR	O-C-N	-5.87	114.78	122.59
1	3y	19	THR	O-C-N	-5.87	115.75	122.09
1	3E	43	LEU	O-C-N	-5.87	115.46	122.15
1	3I	33	SER	O-C-N	5.87	128.07	121.32
1	3P	226	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	3T	126	VAL	N-CA-C	5.87	118.43	111.09
1	3X	225	GLY	O-C-N	-5.87	116.54	122.18
1	4e	146	SER	O-C-N	-5.87	115.67	121.19
1	4f	24	VAL	CA-C-N	5.87	128.15	120.28
1	4f	24	VAL	C-N-CA	5.87	128.15	120.28
1	4I	119	THR	CB-CA-C	-5.87	100.25	110.17
1	4W	25	LYS	N-CA-CB	5.87	119.38	110.28
1	55	92	GLU	CB-CA-C	5.87	117.35	109.42
1	58	78	ALA	N-CA-C	5.87	119.63	112.23
1	5d	170	LYS	N-CA-C	5.87	117.68	111.28
1	5h	84	HIS	CA-CB-CG	5.87	119.67	113.80
1	5k	65	ALA	CA-C-N	5.87	128.07	120.44
1	5k	65	ALA	C-N-CA	5.87	128.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5v	78	ALA	O-C-N	-5.87	115.90	122.12
1	5A	30	LYS	N-CA-C	-5.87	104.80	113.61
1	5Q	220	GLY	CA-C-N	5.87	130.39	120.29
1	5Q	220	GLY	C-N-CA	5.87	130.39	120.29
1	6f	153	ILE	O-C-N	-5.87	116.41	122.63
1	6k	10	MET	CB-CA-C	5.87	119.47	109.72
1	6n	30	LYS	N-CA-CB	5.87	118.83	110.67
1	6o	151	LEU	O-C-N	-5.87	113.86	122.43
1	6p	113	GLU	CA-C-N	5.87	128.15	120.28
1	6p	113	GLU	C-N-CA	5.87	128.15	120.28
1	6s	50	GLN	CB-CG-CD	5.87	122.58	112.60
1	6s	170	LYS	CA-C-N	5.87	128.15	120.28
1	6s	170	LYS	C-N-CA	5.87	128.15	120.28
1	6B	63	GLN	CA-C-N	5.87	128.43	120.44
1	6B	63	GLN	C-N-CA	5.87	128.43	120.44
1	6D	185	MET	N-CA-C	5.87	117.68	111.28
1	6W	44	SER	CA-C-N	5.87	129.17	120.95
1	6W	44	SER	C-N-CA	5.87	129.17	120.95
1	7c	95	GLN	O-C-N	-5.87	115.46	122.15
1	7h	155	GLN	N-CA-C	5.87	118.22	109.59
1	7h	186	THR	CA-C-O	5.87	126.98	120.82
1	7j	16	SER	N-CA-C	5.87	117.29	109.83
1	7j	100	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	7n	31	ALA	O-C-N	-5.87	114.78	122.59
1	7A	15	ILE	N-CA-C	5.87	117.91	109.51
1	7A	125	PRO	CA-C-N	5.87	128.50	120.46
1	7A	125	PRO	C-N-CA	5.87	128.50	120.46
1	7Q	193	ASN	CA-CB-CG	5.87	118.47	112.60
1	7T	82	ARG	CA-C-N	5.87	128.43	120.44
1	7T	82	ARG	C-N-CA	5.87	128.43	120.44
1	8k	50	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	8p	116	GLY	CA-C-N	5.87	128.07	120.44
1	8p	116	GLY	C-N-CA	5.87	128.07	120.44
1	8t	72	THR	N-CA-C	5.87	117.68	111.28
1	8u	142	VAL	N-CA-CB	5.87	118.53	110.54
1	8D	28	GLU	N-CA-C	5.87	117.35	111.07
1	8G	216	THR	CA-C-O	5.87	126.81	119.59
1	8P	115	ILE	N-CA-C	5.87	116.06	110.42
1	96	5	ASN	CA-C-O	5.87	127.56	120.81
1	99	15	ILE	CA-C-O	5.87	127.94	121.13
1	9b	86	VAL	N-CA-C	5.87	117.91	109.51
1	9g	200	THR	N-CA-C	-5.87	104.79	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	66	MET	O-C-N	-5.87	115.90	122.12
1	9o	184	TRP	CG-CD2-CE3	5.87	139.77	133.90
1	9H	66	MET	O-C-N	-5.87	115.89	122.12
1	9V	139	ASN	CA-C-O	5.87	126.97	120.63
1	a5	12	HIS	CB-CG-CD2	-5.87	123.57	131.20
1	ac	25	LYS	N-CA-C	5.87	117.35	111.07
1	af	228	ALA	O-C-N	-5.87	116.36	122.94
1	ax	141	ILE	O-C-N	-5.87	116.18	121.87
1	aF	75	GLU	CB-CA-C	5.87	120.10	110.88
1	aG	82	ARG	N-CA-C	5.87	117.35	111.07
1	aH	93	PRO	CA-C-N	5.87	132.19	121.85
1	aH	93	PRO	C-N-CA	5.87	132.19	121.85
1	aM	55	MET	N-CA-C	5.87	117.68	111.28
1	aZ	205	LEU	CA-C-O	-5.87	114.20	120.42
1	b2	118	MET	N-CA-C	5.87	120.18	113.19
1	b4	107	THR	CA-CB-CG2	-5.87	100.52	110.50
1	16	4	GLN	N-CA-CB	5.87	120.06	110.37
1	16	83	LEU	N-CA-C	5.87	117.35	111.07
1	bh	53	ASN	O-C-N	-5.87	115.35	122.22
1	bk	119	THR	CA-C-N	5.87	132.75	121.54
1	bk	119	THR	C-N-CA	5.87	132.75	121.54
1	bl	145	TYR	N-CA-C	5.87	117.68	111.28
1	c7	179	GLN	CA-C-N	5.87	128.63	120.29
1	c7	179	GLN	C-N-CA	5.87	128.63	120.29
1	c8	162	ARG	O-C-N	5.87	128.34	122.12
1	cl	173	ARG	NE-CZ-NH1	5.87	127.37	121.50
1	cv	148	THR	CA-C-O	5.87	127.75	121.05
1	cE	226	HIS	CA-C-O	-5.87	114.41	121.40
1	cG	93	PRO	CA-C-O	5.87	128.03	121.34
1	cS	15	ILE	CA-CB-CG1	5.87	120.38	110.40
1	cY	96	MET	N-CA-CB	5.87	118.60	109.85
1	cZ	25	LYS	N-CA-C	5.87	118.63	111.82
1	d0	66	MET	CA-C-O	5.87	126.77	120.55
1	dn	210	THR	N-CA-CB	5.87	118.67	110.04
1	dp	150	ILE	N-CA-C	5.87	118.39	111.05
1	dH	29	GLU	N-CA-CB	-5.87	101.49	110.12
1	1m	206	GLY	CA-C-N	5.87	126.82	120.83
1	1m	206	GLY	C-N-CA	5.87	126.82	120.83
1	dP	151	LEU	CA-C-O	-5.87	114.65	120.82
1	e3	27	VAL	O-C-N	-5.87	115.78	121.83
1	eh	193	ASN	N-CA-CB	5.87	119.13	110.56
1	ex	137	GLY	O-C-N	-5.87	116.54	122.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eJ	92	GLU	CA-C-N	5.87	126.38	120.04
1	eJ	92	GLU	C-N-CA	5.87	126.38	120.04
1	f2	120	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	fn	87	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	fq	93	PRO	CA-C-N	5.87	130.42	120.91
1	fq	93	PRO	C-N-CA	5.87	130.42	120.91
1	fH	14	ALA	N-CA-C	5.87	118.52	110.24
1	fU	32	PHE	N-CA-C	-5.87	105.43	112.59
1	b	226	HIS	CG-CD2-NE2	5.87	113.07	107.20
1	d	84	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	e	209	ALA	CA-C-N	5.87	131.66	120.97
1	e	209	ALA	C-N-CA	5.87	131.66	120.97
1	h	133	TRP	CA-C-N	5.87	127.96	120.56
1	h	133	TRP	C-N-CA	5.87	127.96	120.56
1	i	23	TRP	CA-C-N	5.87	128.50	120.46
1	i	23	TRP	C-N-CA	5.87	128.50	120.46
1	J	191	VAL	O-C-N	-5.87	115.79	121.90
1	J	211	LEU	CA-C-O	-5.87	114.33	120.55
1	N	68	MET	O-C-N	-5.87	116.02	122.07
1	4	14	ALA	N-CA-C	5.87	118.28	110.53
1	T	141	ILE	N-CA-CB	5.87	117.42	110.55
1	gg	139	ASN	CB-CA-C	-5.87	101.05	110.79
1	gL	80	TRP	N-CA-C	-5.87	104.88	111.28
1	he	84	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	hE	75	GLU	N-CA-C	5.87	117.68	111.28
1	hN	80	TRP	CB-CG-CD1	5.87	135.71	126.90
1	hX	84	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	iw	172	LEU	N-CA-C	5.87	118.63	111.82
1	iX	105	ALA	CA-C-O	5.87	126.53	119.43
1	jG	93	PRO	CA-C-N	5.87	132.91	121.41
1	jG	93	PRO	C-N-CA	5.87	132.91	121.41
1	jO	47	ALA	N-CA-C	5.87	118.23	109.25
1	jY	143	ARG	CG-CD-NE	-5.87	99.08	112.00
1	jY	202	LEU	CA-C-N	5.87	128.15	120.28
1	jY	202	LEU	C-N-CA	5.87	128.15	120.28
1	k1	70	LYS	CA-C-N	5.87	128.15	120.28
1	k1	70	LYS	C-N-CA	5.87	128.15	120.28
1	kq	184	TRP	O-C-N	-5.87	115.05	122.27
1	kA	226	HIS	CA-C-N	5.87	129.89	121.50
1	kA	226	HIS	C-N-CA	5.87	129.89	121.50
1	kD	153	ILE	O-C-N	-5.87	115.49	122.77
1	kF	215	MET	N-CA-C	-5.87	105.43	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	26	92	GLU	N-CA-C	5.87	118.05	109.71
1	26	121	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	l9	181	VAL	CA-C-N	5.87	128.42	120.38
1	l9	181	VAL	C-N-CA	5.87	128.42	120.38
1	ll	117	TRP	N-CA-C	5.87	118.46	111.71
1	lr	190	LEU	CA-C-O	5.87	126.77	120.55
1	lv	192	GLN	N-CA-C	5.87	118.63	111.82
1	2h	146	SER	CB-CA-C	-5.87	100.33	109.08
1	2o	69	LEU	N-CA-C	5.87	117.68	111.28
1	38	141	ILE	N-CA-C	5.87	116.61	110.62
1	3l	119	THR	N-CA-C	5.87	120.17	112.89
1	3H	65	ALA	CA-C-O	5.87	126.72	119.97
1	3X	195	ASN	CA-CB-CG	-5.87	106.73	112.60
1	4z	213	GLU	N-CA-C	-5.87	104.83	112.23
1	4V	59	VAL	CA-CB-CG1	5.87	120.38	110.40
1	5s	195	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	6s	200	THR	CB-CA-C	-5.87	101.05	110.79
1	6L	213	GLU	O-C-N	-5.87	115.90	122.12
1	6Z	74	ASN	CA-C-N	5.87	128.63	120.29
1	6Z	74	ASN	C-N-CA	5.87	128.63	120.29
1	7g	170	LYS	CB-CA-C	-5.87	101.66	110.88
1	7p	97	ARG	O-C-N	-5.87	115.59	122.81
1	7S	183	ASN	N-CA-CB	5.87	118.75	110.12
1	7V	69	LEU	N-CA-C	5.87	117.35	111.07
1	8e	10	MET	N-CA-C	5.87	123.30	110.80
1	8g	153	ILE	N-CA-C	5.87	115.99	108.12
1	8l	20	LEU	N-CA-C	5.87	117.68	111.28
1	8C	111	LEU	CA-C-O	5.87	126.78	120.20
1	97	23	TRP	CE3-CZ3-CH2	5.87	128.73	121.10
1	9f	127	GLY	O-C-N	-5.87	115.59	122.34
1	9i	91	ILE	N-CA-C	5.87	116.61	110.62
1	9o	196	PRO	N-CA-CB	5.87	109.41	103.25
1	a1	23	TRP	N-CA-C	5.87	118.15	111.11
1	al	6	LEU	N-CA-CB	-5.87	100.62	111.13
1	as	33	SER	O-C-N	-5.87	117.95	121.71
1	aQ	174	ALA	CA-C-N	5.87	128.15	120.28
1	aQ	174	ALA	C-N-CA	5.87	128.15	120.28
1	bd	133	TRP	CA-C-O	-5.87	114.33	120.55
1	bn	198	CYS	N-CA-C	-5.87	105.01	111.82
1	bY	36	VAL	N-CA-C	5.87	116.65	110.72
1	1c	27	VAL	CB-CA-C	5.87	120.06	112.14
1	cA	184	TRP	N-CA-C	5.87	117.68	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	74	ASN	N-CA-C	5.87	119.70	112.54
1	dh	100	ARG	CA-C-O	-5.87	114.94	121.51
1	di	53	ASN	CA-C-N	5.87	128.15	120.28
1	di	53	ASN	C-N-CA	5.87	128.15	120.28
1	e4	65	ALA	CA-C-O	5.87	126.77	120.55
1	ex	52	LEU	N-CA-CB	5.87	118.85	110.16
1	f7	219	GLN	CG-CD-OE1	5.87	132.54	120.80
1	ff	89	GLY	CA-C-N	5.87	127.18	119.84
1	ff	89	GLY	C-N-CA	5.87	127.18	119.84
1	1y	222	GLY	CA-C-O	-5.87	116.72	121.77
1	g5	182	LYS	N-CA-C	5.87	117.68	111.28
1	o	82	ARG	CB-CA-C	5.87	120.25	110.92
1	s	12	HIS	CG-CD2-NE2	5.87	113.07	107.20
1	L	58	THR	CA-C-O	5.87	126.64	120.42
1	X	213	GLU	CA-C-N	5.87	128.07	120.44
1	X	213	GLU	C-N-CA	5.87	128.07	120.44
1	8	75	GLU	CA-C-O	-5.87	114.33	120.55
1	1D	99	PRO	O-C-N	-5.87	116.58	122.98
1	gz	185	MET	N-CA-C	5.87	117.68	111.28
1	gH	160	PRO	O-C-N	-5.87	115.54	122.99
1	gW	195	ASN	CB-CA-C	5.87	117.91	109.11
1	h4	70	LYS	N-CA-C	5.87	117.68	111.28
1	hb	173	ARG	NE-CZ-NH2	-5.87	113.92	119.20
1	hf	39	MET	N-CA-C	5.87	117.35	111.07
1	hg	180	GLU	O-C-N	-5.87	115.90	122.12
1	hv	163	ASP	CA-CB-CG	5.87	118.47	112.60
1	hy	123	PRO	CA-C-N	5.87	126.81	122.59
1	hy	123	PRO	C-N-CA	5.87	126.81	122.59
1	hK	34	PRO	N-CA-CB	5.87	108.77	103.20
1	hM	74	ASN	CA-C-N	5.87	128.95	120.79
1	hM	74	ASN	C-N-CA	5.87	128.95	120.79
1	hP	140	LYS	N-CA-C	5.87	118.46	111.71
1	hQ	87	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	hY	186	THR	O-C-N	-5.87	116.03	122.07
1	i6	156	GLY	CA-C-N	5.87	125.41	119.19
1	i6	156	GLY	C-N-CA	5.87	125.41	119.19
1	i8	110	THR	CA-C-N	5.87	132.75	121.54
1	i8	110	THR	C-N-CA	5.87	132.75	121.54
1	ib	217	ALA	CA-C-N	5.87	130.46	122.07
1	ib	217	ALA	C-N-CA	5.87	130.46	122.07
1	ie	54	THR	N-CA-C	5.87	118.15	111.11
1	in	184	TRP	CE2-CD2-CE3	5.87	124.67	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iu	168	PHE	CB-CG-CD2	5.87	130.68	120.70
1	1R	216	THR	CA-C-O	5.87	126.38	119.28
1	iL	212	GLU	CA-C-O	5.87	127.18	120.90
1	iP	213	GLU	N-CA-C	5.87	117.35	111.07
1	iU	67	GLN	N-CA-C	5.87	117.76	111.36
1	1T	164	TYR	N-CA-C	5.87	117.76	111.36
1	1U	219	GLN	CA-C-O	5.87	127.77	121.55
1	jw	7	GLN	OE1-CD-NE2	-5.87	116.73	122.60
1	jM	73	ILE	CA-C-N	5.87	128.62	120.29
1	jM	73	ILE	C-N-CA	5.87	128.62	120.29
1	jS	181	VAL	CA-C-N	5.87	128.07	120.44
1	jS	181	VAL	C-N-CA	5.87	128.07	120.44
1	1Z	83	LEU	N-CA-C	-5.87	105.61	112.89
1	k7	6	LEU	CA-C-N	5.87	130.99	122.36
1	k7	6	LEU	C-N-CA	5.87	130.99	122.36
1	kl	19	THR	CA-C-O	5.87	126.64	120.42
1	22	113	GLU	CA-C-N	5.87	129.62	120.82
1	22	113	GLU	C-N-CA	5.87	129.62	120.82
1	kG	92	GLU	CA-C-N	5.87	126.28	119.47
1	kG	92	GLU	C-N-CA	5.87	126.28	119.47
1	kH	199	LYS	O-C-N	-5.87	116.03	122.07
1	kS	23	TRP	CB-CG-CD2	5.87	135.02	126.80
1	kT	150	ILE	CA-C-N	5.87	128.42	120.38
1	kT	150	ILE	C-N-CA	5.87	128.42	120.38
1	kY	226	HIS	N-CA-C	-5.87	104.67	112.94
1	l6	10	MET	CA-C-N	5.87	130.75	123.12
1	l6	10	MET	C-N-CA	5.87	130.75	123.12
1	le	80	TRP	CB-CG-CD1	5.87	135.70	126.90
1	lx	174	ALA	CA-C-N	5.87	129.17	120.90
1	lx	174	ALA	C-N-CA	5.87	129.17	120.90
1	2a	183	ASN	N-CA-C	5.87	117.68	111.28
1	2g	213	GLU	CA-C-N	5.87	128.42	120.38
1	2g	213	GLU	C-N-CA	5.87	128.42	120.38
1	2m	96	MET	O-C-N	-5.87	115.73	122.89
1	2y	214	MET	N-CA-C	5.87	117.68	111.28
1	2F	140	LYS	CA-C-N	5.87	128.75	120.42
1	2F	140	LYS	C-N-CA	5.87	128.75	120.42
1	2L	121	ASN	CA-C-O	-5.87	115.01	119.59
1	2Y	148	THR	O-C-N	-5.87	116.73	123.42
1	30	25	LYS	CA-C-N	5.87	128.46	120.77
1	30	25	LYS	C-N-CA	5.87	128.46	120.77
1	3a	226	HIS	N-CA-C	5.87	119.10	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3o	54	THR	O-C-N	-5.87	115.75	122.09
1	3v	78	ALA	N-CA-C	5.87	117.35	111.07
1	3J	88	ALA	N-CA-C	5.87	118.33	110.35
1	3K	158	LYS	CG-CD-CE	5.87	124.80	111.30
1	3W	51	ASP	CA-C-N	5.87	128.14	120.28
1	3W	51	ASP	C-N-CA	5.87	128.14	120.28
1	40	39	MET	N-CA-C	5.87	117.68	111.28
1	4e	65	ALA	O-C-N	-5.87	116.03	122.07
1	4y	180	GLU	CA-C-N	5.87	128.50	120.46
1	4y	180	GLU	C-N-CA	5.87	128.50	120.46
1	4N	120	HIS	CG-CD2-NE2	5.87	113.07	107.20
1	4W	105	ALA	N-CA-C	5.87	118.46	111.71
1	53	162	ARG	N-CA-C	5.87	117.68	111.28
1	58	159	GLU	O-C-N	-5.87	115.25	121.30
1	5d	176	GLN	CA-C-O	-5.87	112.48	119.35
1	5n	198	CYS	N-CA-C	5.87	117.68	111.28
1	5P	144	MET	CA-C-N	5.87	128.62	120.29
1	5P	144	MET	C-N-CA	5.87	128.62	120.29
1	5T	65	ALA	CA-C-N	5.87	128.14	120.28
1	5T	65	ALA	C-N-CA	5.87	128.14	120.28
1	65	109	SER	CA-C-O	5.87	126.70	120.36
1	67	35	GLU	O-C-N	-5.87	115.90	122.12
1	6a	4	GLN	O-C-N	-5.87	116.56	123.25
1	6a	25	LYS	CA-C-O	-5.87	114.20	120.42
1	6k	119	THR	CA-C-N	5.87	129.61	120.75
1	6k	119	THR	C-N-CA	5.87	129.61	120.75
1	6l	97	ARG	NE-CZ-NH1	5.87	127.37	121.50
1	6t	110	THR	CA-CB-OG1	5.87	118.40	109.60
1	6v	45	GLU	O-C-N	-5.87	114.78	122.59
1	6A	141	ILE	CA-C-N	5.87	128.17	120.60
1	6A	141	ILE	C-N-CA	5.87	128.17	120.60
1	7N	175	GLU	N-CA-C	5.87	118.15	111.11
1	7V	82	ARG	N-CA-C	5.87	118.63	111.82
1	8e	59	VAL	CA-CB-CG2	-5.87	100.42	110.40
1	8i	142	VAL	CA-C-N	5.87	128.15	120.28
1	8i	142	VAL	C-N-CA	5.87	128.15	120.28
1	8l	103	ASP	N-CA-CB	5.87	118.84	110.16
1	8l	119	THR	CB-CA-C	-5.87	99.44	109.65
1	8l	201	ILE	N-CA-C	-5.87	105.01	110.53
1	8v	141	ILE	CA-C-N	5.87	128.50	120.46
1	8v	141	ILE	C-N-CA	5.87	128.50	120.46
1	8I	85	PRO	N-CA-CB	-5.87	97.09	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8M	150	ILE	CA-C-O	5.87	125.99	119.42
1	8N	84	HIS	CA-CB-CG	-5.87	107.93	113.80
1	8Y	134	ILE	CA-C-O	-5.87	114.85	120.95
1	8Z	28	GLU	CA-C-O	-5.87	114.33	120.55
1	93	104	ILE	N-CA-C	5.87	116.61	110.62
1	9m	172	LEU	N-CA-C	5.87	118.46	111.71
1	a2	222	GLY	CA-C-N	5.87	131.08	121.87
1	a2	222	GLY	C-N-CA	5.87	131.08	121.87
1	an	200	THR	N-CA-CB	5.87	118.52	110.01
1	aG	50	GLN	N-CA-C	5.87	117.76	111.36
1	aK	158	LYS	CB-CG-CD	5.87	124.80	111.30
1	aN	173	ARG	CA-C-N	5.87	128.42	120.38
1	aN	173	ARG	C-N-CA	5.87	128.42	120.38
1	aP	81	ASP	O-C-N	-5.87	114.36	122.46
1	aP	217	ALA	O-C-N	-5.87	115.59	122.81
1	b3	17	PRO	O-C-N	5.87	128.99	122.24
1	bg	116	GLY	O-C-N	-5.87	116.56	122.19
1	bp	62	HIS	ND1-CE1-NE2	5.87	114.27	108.40
1	bA	32	PHE	O-C-N	-5.87	116.53	123.22
1	bW	110	THR	CA-C-O	-5.87	115.06	121.87
1	bZ	175	GLU	CA-C-N	5.87	132.75	121.54
1	bZ	175	GLU	C-N-CA	5.87	132.75	121.54
1	c3	90	PRO	CA-C-O	-5.87	114.73	121.36
1	c8	103	ASP	CA-C-N	5.87	128.07	120.56
1	c8	103	ASP	C-N-CA	5.87	128.07	120.56
1	ch	93	PRO	N-CA-C	5.87	120.49	111.57
1	cv	168	PHE	N-CA-C	5.87	117.35	111.07
1	cz	143	ARG	CA-C-O	-5.87	114.33	120.55
1	cB	83	LEU	O-C-N	-5.87	114.62	122.49
1	cG	164	TYR	N-CA-CB	-5.87	101.49	110.12
1	cO	136	LEU	CA-C-N	5.87	126.49	119.98
1	cO	136	LEU	C-N-CA	5.87	126.49	119.98
1	cQ	188	THR	N-CA-C	5.87	117.76	111.36
1	cY	34	PRO	N-CA-C	5.87	121.57	113.65
1	d4	229	ARG	CA-C-N	5.87	132.53	121.97
1	d4	229	ARG	C-N-CA	5.87	132.53	121.97
1	d7	141	ILE	N-CA-C	5.87	116.65	110.72
1	di	36	VAL	CA-C-N	5.87	125.02	120.33
1	di	36	VAL	C-N-CA	5.87	125.02	120.33
1	dn	41	SER	CA-C-N	5.87	128.14	120.28
1	dn	41	SER	C-N-CA	5.87	128.14	120.28
1	dr	35	GLU	CA-C-N	5.87	127.95	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dr	35	GLU	C-N-CA	5.87	127.95	120.56
1	ds	139	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	dy	210	THR	O-C-N	-5.87	116.09	123.01
1	dF	78	ALA	N-CA-C	5.87	117.35	111.07
1	dF	198	CYS	O-C-N	-5.87	116.03	122.07
1	dR	92	GLU	O-C-N	-5.87	114.89	120.70
1	e4	218	CYS	CA-C-O	5.87	126.87	120.12
1	ec	73	ILE	CA-CB-CG2	5.87	120.47	110.50
1	ee	214	MET	CG-SD-CE	-5.87	87.99	100.90
1	ej	92	GLU	CA-C-O	-5.87	114.07	120.17
1	ey	168	PHE	CB-CG-CD1	5.87	130.68	120.70
1	eF	80	TRP	N-CA-C	5.87	117.68	111.28
1	eR	74	ASN	CA-C-N	5.87	128.62	120.29
1	eR	74	ASN	C-N-CA	5.87	128.62	120.29
1	1x	13	GLN	CA-C-N	5.87	129.04	120.71
1	1x	13	GLN	C-N-CA	5.87	129.04	120.71
1	fG	55	MET	CA-C-O	5.87	126.77	120.55
1	fI	130	TYR	N-CA-C	5.87	117.35	111.07
1	fJ	153	ILE	N-CA-CB	5.87	120.91	111.23
1	fT	125	PRO	CB-CA-C	5.87	121.36	112.97
1	g3	53	ASN	CA-C-N	5.87	128.95	120.79
1	g3	53	ASN	C-N-CA	5.87	128.95	120.79
1	j	226	HIS	CA-C-O	-5.87	114.25	121.06
1	v	3	VAL	O-C-N	-5.87	116.39	123.02
1	A	139	ASN	O-C-N	-5.87	115.46	122.15
1	4	73	ILE	CA-CB-CG2	-5.87	100.52	110.50
1	R	50	GLN	CB-CA-C	5.87	120.20	110.81
1	T	91	ILE	CA-C-O	5.87	126.58	119.54
1	V	91	ILE	N-CA-C	5.87	116.05	110.42
1	gX	63	GLN	CA-C-O	-5.87	112.87	119.79
1	hy	97	ARG	O-C-N	-5.87	115.59	122.81
1	hH	86	VAL	CA-CB-CG1	5.87	120.37	110.40
1	ic	201	ILE	N-CA-C	5.87	116.60	110.62
1	if	217	ALA	N-CA-CB	5.87	118.67	110.04
1	1R	152	ASP	O-C-N	-5.87	115.80	122.08
1	iS	218	CYS	CA-C-O	-5.87	114.42	121.40
1	ja	108	THR	O-C-N	-5.87	115.30	122.34
1	jk	16	SER	CA-C-N	5.87	125.34	119.24
1	jk	16	SER	C-N-CA	5.87	125.34	119.24
1	jr	100	ARG	N-CA-CB	5.87	118.48	110.38
1	jG	185	MET	CA-C-N	5.87	128.73	120.28
1	jG	185	MET	C-N-CA	5.87	128.73	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Z	44	SER	O-C-N	-5.87	115.30	122.34
1	k1	83	LEU	N-CA-C	5.87	117.67	111.28
1	kB	12	HIS	CA-C-O	5.87	127.38	120.69
1	kE	207	PRO	N-CA-C	5.87	121.57	113.65
1	24	142	VAL	O-C-N	-5.87	116.16	121.91
1	kO	64	ALA	O-C-N	5.87	128.11	122.07
1	kQ	180	GLU	CA-C-N	5.87	127.95	120.56
1	kQ	180	GLU	C-N-CA	5.87	127.95	120.56
1	kW	90	PRO	CB-CA-C	-5.87	103.89	111.46
1	l7	203	LYS	N-CA-C	5.87	118.63	111.82
1	lr	76	GLU	O-C-N	-5.87	116.03	122.07
1	lP	67	GLN	CA-C-N	5.87	128.07	120.44
1	lP	67	GLN	C-N-CA	5.87	128.07	120.44
1	2r	133	TRP	CA-C-N	5.87	128.50	120.46
1	2r	133	TRP	C-N-CA	5.87	128.50	120.46
1	3d	167	ARG	CA-C-N	5.87	130.52	121.19
1	3d	167	ARG	C-N-CA	5.87	130.52	121.19
1	3r	219	GLN	N-CA-CB	-5.87	101.11	109.85
1	3D	101	GLY	CA-C-N	5.87	129.23	120.31
1	3D	101	GLY	C-N-CA	5.87	129.23	120.31
1	3K	16	SER	N-CA-CB	5.87	118.41	110.14
1	3O	87	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	4Z	11	VAL	N-CA-CB	-5.87	104.38	110.95
1	5u	21	ASN	N-CA-C	5.87	117.67	111.28
1	5E	53	ASN	CA-CB-CG	-5.87	106.73	112.60
1	5J	184	TRP	CA-C-O	5.87	126.98	120.82
1	5M	179	GLN	CA-C-N	5.87	128.14	120.28
1	5M	179	GLN	C-N-CA	5.87	128.14	120.28
1	68	188	THR	N-CA-C	5.87	120.98	113.18
1	6p	111	LEU	CA-C-O	5.87	126.73	120.10
1	72	213	GLU	CA-C-N	5.87	128.62	120.29
1	72	213	GLU	C-N-CA	5.87	128.62	120.29
1	7g	21	ASN	CB-CG-OD1	-5.87	109.07	120.80
1	7z	186	THR	N-CA-CB	5.87	118.47	109.91
1	7E	37	ILE	CA-C-N	5.87	125.25	118.85
1	7E	37	ILE	C-N-CA	5.87	125.25	118.85
1	7S	116	GLY	CA-C-N	5.87	128.14	120.28
1	7S	116	GLY	C-N-CA	5.87	128.14	120.28
1	8m	160	PRO	CB-CA-C	-5.87	102.70	110.27
1	8t	1	PRO	CA-N-CD	-5.87	103.79	112.00
1	9o	210	THR	N-CA-CB	5.87	118.62	110.17
1	9r	55	MET	CA-C-O	5.87	126.77	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	173	ARG	NE-CZ-NH2	5.87	124.48	119.20
1	aZ	12	HIS	CA-CB-CG	5.87	119.67	113.80
1	b8	186	THR	N-CA-C	5.87	118.63	111.82
1	be	37	ILE	O-C-N	-5.87	115.90	120.07
1	bq	110	THR	CA-C-N	5.87	128.42	120.38
1	bq	110	THR	C-N-CA	5.87	128.42	120.38
1	bu	90	PRO	N-CA-C	5.87	120.71	111.38
1	bA	179	GLN	CG-CD-NE2	5.87	125.20	116.40
1	c0	153	ILE	N-CA-CB	5.87	117.99	110.13
1	c2	37	ILE	N-CA-C	5.87	119.39	112.35
1	cv	112	GLN	CB-CG-CD	5.87	122.57	112.60
1	1f	209	ALA	N-CA-C	5.87	118.21	109.59
1	cK	86	VAL	N-CA-CB	5.87	119.28	110.13
1	cQ	191	VAL	N-CA-C	5.87	116.05	110.42
1	cU	115	ILE	CA-C-N	5.87	126.49	119.98
1	cU	115	ILE	C-N-CA	5.87	126.49	119.98
1	cX	122	PRO	N-CD-CG	-5.87	96.76	103.80
1	d3	212	GLU	N-CA-C	5.87	118.43	111.33
1	1i	230	VAL	N-CA-C	5.87	118.08	109.63
1	dg	141	ILE	CA-C-O	-5.87	114.95	121.17
1	dl	77	ALA	N-CA-C	5.87	117.67	111.28
1	dJ	63	GLN	N-CA-C	5.87	117.67	111.28
1	ee	81	ASP	CA-CB-CG	-5.87	106.73	112.60
1	f8	70	LYS	CA-C-N	5.87	128.62	120.29
1	f8	70	LYS	C-N-CA	5.87	128.62	120.29
1	g6	9	GLN	CA-C-N	5.87	129.04	120.71
1	g6	9	GLN	C-N-CA	5.87	129.04	120.71
1	k	181	VAL	N-CA-C	5.87	116.65	110.72
1	p	114	GLN	O-C-N	5.87	128.11	122.07
1	r	88	ALA	N-CA-CB	5.87	118.62	110.17
1	3	51	ASP	CA-C-N	5.87	128.14	120.28
1	3	51	ASP	C-N-CA	5.87	128.14	120.28
1	N	179	GLN	CA-C-N	5.87	128.14	120.28
1	N	179	GLN	C-N-CA	5.87	128.14	120.28
1	R	175	GLU	N-CA-C	5.87	118.43	111.33
1	g8	79	GLU	N-CA-C	5.87	117.67	111.28
1	go	108	THR	CA-C-O	5.87	126.87	119.95
1	gw	62	HIS	CB-CG-CD2	-5.87	123.58	131.20
1	gO	27	VAL	O-C-N	-5.87	116.16	121.91
1	h0	16	SER	CA-C-N	5.87	125.73	119.28
1	h0	16	SER	C-N-CA	5.87	125.73	119.28
1	h2	66	MET	N-CA-CB	5.87	118.52	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h7	130	TYR	N-CA-CB	-5.87	101.50	110.12
1	hp	167	ARG	CA-C-O	5.87	127.17	120.90
1	hu	124	ILE	CA-CB-CG1	5.87	120.37	110.40
1	hH	50	GLN	OE1-CD-NE2	5.87	128.47	122.60
1	hY	182	LYS	N-CA-C	5.87	117.75	111.36
1	ir	221	VAL	N-CA-C	-5.87	104.80	110.72
1	iG	56	LEU	N-CA-C	5.87	117.67	111.28
1	j1	71	GLU	O-C-N	-5.87	115.90	122.12
1	j8	98	GLU	N-CA-C	5.87	117.09	109.64
1	jd	26	VAL	CA-C-N	5.87	128.50	120.46
1	jd	26	VAL	C-N-CA	5.87	128.50	120.46
1	jd	175	GLU	CA-C-N	5.87	131.75	122.60
1	jd	175	GLU	C-N-CA	5.87	131.75	122.60
1	jD	198	CYS	CA-C-N	5.87	128.62	120.29
1	jD	198	CYS	C-N-CA	5.87	128.62	120.29
1	jU	175	GLU	CA-C-O	5.87	127.64	121.19
1	k6	48	THR	N-CA-CB	5.87	119.84	110.10
1	kD	95	GLN	N-CA-C	5.87	118.77	110.50
1	kG	61	GLY	N-CA-C	-5.87	105.75	112.79
1	kL	168	PHE	CA-C-O	5.87	126.64	120.42
1	kM	37	ILE	N-CA-C	5.87	119.39	112.35
1	kQ	12	HIS	CB-CA-C	5.87	119.05	109.90
1	kR	229	ARG	NE-CZ-NH1	5.87	127.36	121.50
1	l3	53	ASN	N-CA-CB	5.87	118.52	110.01
1	l6	138	LEU	CA-C-O	5.87	126.77	120.55
1	l9	197	ASP	N-CA-CB	-5.87	100.84	110.40
1	la	65	ALA	N-CA-C	5.87	117.47	111.14
1	ld	50	GLN	CB-CG-CD	-5.87	102.63	112.60
1	lh	201	ILE	N-CA-C	5.87	116.64	110.72
1	2f	47	ALA	O-C-N	-5.87	116.18	123.04
1	2k	163	ASP	CA-C-N	5.87	128.07	120.44
1	2k	163	ASP	C-N-CA	5.87	128.07	120.44
1	2E	21	ASN	N-CA-C	5.87	118.62	111.82
1	3d	41	SER	N-CA-CB	5.87	118.74	110.12
1	3d	89	GLY	CA-C-N	5.87	127.17	119.84
1	3d	89	GLY	C-N-CA	5.87	127.17	119.84
1	3i	26	VAL	N-CA-C	5.87	116.60	110.62
1	3p	137	GLY	CA-C-N	5.87	128.14	120.28
1	3p	137	GLY	C-N-CA	5.87	128.14	120.28
1	3J	126	VAL	N-CA-C	5.87	116.60	110.62
1	3J	130	TYR	CA-C-N	5.87	128.14	120.28
1	3J	130	TYR	C-N-CA	5.87	128.14	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	50	GLN	O-C-N	-5.87	116.03	122.07
1	3P	115	ILE	CA-C-O	5.87	127.05	120.95
1	3T	25	LYS	N-CA-C	5.87	117.67	111.28
1	4j	227	LYS	N-CA-C	5.87	118.70	109.96
1	4s	149	SER	CA-C-O	5.87	127.77	121.55
1	4K	72	THR	CA-C-N	5.87	128.75	120.42
1	4K	72	THR	C-N-CA	5.87	128.75	120.42
1	4M	53	ASN	N-CA-C	5.87	117.67	111.28
1	5q	111	LEU	N-CA-C	5.87	118.15	111.11
1	5w	213	GLU	CA-C-N	5.87	128.14	120.28
1	5w	213	GLU	C-N-CA	5.87	128.14	120.28
1	5A	148	THR	CA-CB-CG2	5.87	120.47	110.50
1	5R	37	ILE	CA-C-N	5.87	125.24	118.85
1	5R	37	ILE	C-N-CA	5.87	125.24	118.85
1	5X	21	ASN	CA-C-N	5.87	128.46	120.54
1	5X	21	ASN	C-N-CA	5.87	128.46	120.54
1	6h	2	ILE	CA-C-N	5.87	130.46	123.19
1	6h	2	ILE	C-N-CA	5.87	130.46	123.19
1	6l	5	ASN	N-CA-C	-5.87	104.67	112.94
1	6s	50	GLN	N-CA-CB	5.87	118.68	109.94
1	6s	75	GLU	CB-CA-C	5.87	120.09	110.88
1	6z	14	ALA	N-CA-C	5.87	117.86	110.24
1	6Y	18	ARG	CA-C-O	-5.87	114.66	120.82
1	70	16	SER	N-CA-C	5.87	117.09	109.64
1	71	15	ILE	CB-CA-C	5.87	118.78	111.15
1	71	163	ASP	CA-CB-CG	5.87	118.47	112.60
1	7g	215	MET	CG-SD-CE	-5.87	88.00	100.90
1	7q	210	THR	N-CA-CB	5.87	118.59	109.97
1	7t	216	THR	CA-C-O	5.87	126.98	120.82
1	7u	53	ASN	CA-C-O	5.87	126.73	120.10
1	7u	227	LYS	CA-C-N	5.87	132.75	121.54
1	7u	227	LYS	C-N-CA	5.87	132.75	121.54
1	7J	154	ARG	NE-CZ-NH2	-5.87	113.92	119.20
1	7W	86	VAL	N-CA-C	5.87	121.54	109.34
1	8c	216	THR	N-CA-CB	5.87	119.96	110.40
1	8g	9	GLN	CA-C-N	5.87	129.04	120.71
1	8g	9	GLN	C-N-CA	5.87	129.04	120.71
1	8h	11	VAL	CA-C-N	5.87	129.89	121.50
1	8h	11	VAL	C-N-CA	5.87	129.89	121.50
1	8j	219	GLN	CA-C-N	5.87	132.91	121.41
1	8j	219	GLN	C-N-CA	5.87	132.91	121.41
1	8R	177	ALA	CA-C-O	5.87	127.95	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9a	4	GLN	CB-CA-C	-5.87	100.58	110.43
1	9p	197	ASP	CA-C-O	5.87	126.42	119.56
1	9T	16	SER	N-CA-CB	5.87	119.57	110.01
1	10	17	PRO	CA-C-O	-5.87	111.24	119.74
1	am	147	PRO	N-CA-CB	-5.87	97.09	103.25
1	ar	47	ALA	N-CA-C	5.87	118.70	109.96
1	aL	27	VAL	CA-C-N	5.87	128.07	120.44
1	aL	27	VAL	C-N-CA	5.87	128.07	120.44
1	15	197	ASP	CA-C-N	5.87	128.42	120.44
1	15	197	ASP	C-N-CA	5.87	128.42	120.44
1	aZ	167	ARG	CB-CA-C	-5.87	101.05	110.79
1	16	14	ALA	N-CA-C	5.87	118.47	110.55
1	b9	86	VAL	CA-CB-CG2	-5.87	100.43	110.40
1	bp	16	SER	CA-C-N	5.87	126.27	119.47
1	bp	16	SER	C-N-CA	5.87	126.27	119.47
1	bu	80	TRP	CE2-CD2-CE3	5.87	124.67	118.80
1	bw	84	HIS	O-C-N	-5.87	116.55	121.12
1	bU	53	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	c0	84	HIS	CA-C-N	5.87	125.80	119.76
1	c0	84	HIS	C-N-CA	5.87	125.80	119.76
1	c1	189	LEU	N-CA-C	5.87	123.30	110.80
1	c9	18	ARG	NH1-CZ-NH2	-5.87	111.67	119.30
1	ce	132	ARG	CA-C-N	5.87	128.06	120.44
1	ce	132	ARG	C-N-CA	5.87	128.06	120.44
1	cH	205	LEU	N-CA-C	5.87	117.47	111.14
1	cO	2	ILE	CA-CB-CG1	5.87	120.37	110.40
1	cS	139	ASN	OD1-CG-ND2	-5.87	116.73	122.60
1	1h	100	ARG	NE-CZ-NH2	-5.87	113.92	119.20
1	d1	216	THR	CA-CB-CG2	5.87	120.47	110.50
1	dg	110	THR	O-C-N	-5.87	117.65	123.46
1	dO	126	VAL	O-C-N	5.87	127.56	121.87
1	1o	209	ALA	CA-C-O	5.87	126.39	120.88
1	eb	130	TYR	CA-C-N	5.87	128.07	120.44
1	eb	130	TYR	C-N-CA	5.87	128.07	120.44
1	ed	97	ARG	CA-C-N	5.87	128.54	120.39
1	ed	97	ARG	C-N-CA	5.87	128.54	120.39
1	eh	71	GLU	N-CA-C	5.87	117.67	111.28
1	eh	117	TRP	CA-C-O	5.87	127.52	121.07
1	el	209	ALA	N-CA-C	5.87	118.33	110.35
1	et	64	ALA	N-CA-C	5.87	117.75	111.36
1	f1	120	HIS	CG-CD2-NE2	5.87	113.06	107.20
1	f1	153	ILE	N-CA-CB	5.87	117.74	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f2	162	ARG	N-CA-C	5.87	118.15	111.11
1	fD	55	MET	O-C-N	-5.87	116.03	122.07
1	fQ	89	GLY	N-CA-C	5.87	124.31	112.34
1	fV	120	HIS	CA-CB-CG	5.87	119.67	113.80
1	fX	142	VAL	CB-CA-C	-5.87	104.22	112.14
1	1B	143	ARG	NE-CZ-NH2	5.87	124.48	119.20
1	f	226	HIS	CE1-NE2-CD2	-5.87	103.14	109.00
1	h	68	MET	CG-SD-CE	-5.87	88.00	100.90
1	A	143	ARG	CG-CD-NE	-5.87	99.09	112.00
1	C	120	HIS	CG-CD2-NE2	5.87	113.06	107.20
1	D	132	ARG	NE-CZ-NH1	5.87	127.37	121.50
1	R	114	GLN	N-CA-C	5.87	117.67	111.28
1	W	119	THR	CA-C-N	5.87	129.61	120.75
1	W	119	THR	C-N-CA	5.87	129.61	120.75
1	gd	20	LEU	CA-C-N	5.86	128.06	120.44
1	gd	20	LEU	C-N-CA	5.86	128.06	120.44
1	gh	164	TYR	CA-C-N	5.86	127.95	120.56
1	gh	164	TYR	C-N-CA	5.86	127.95	120.56
1	gk	96	MET	CG-SD-CE	-5.86	88.00	100.90
1	gn	162	ARG	NH1-CZ-NH2	-5.86	111.68	119.30
1	gq	222	GLY	N-CA-C	5.86	121.70	111.50
1	gr	54	THR	CA-C-N	5.86	128.46	120.54
1	gr	54	THR	C-N-CA	5.86	128.46	120.54
1	gH	50	GLN	CA-C-N	5.86	128.62	120.29
1	gH	50	GLN	C-N-CA	5.86	128.62	120.29
1	gY	15	ILE	N-CA-C	-5.86	101.15	108.89
1	hy	70	LYS	N-CA-CB	5.86	118.51	110.01
1	1K	64	ALA	CA-C-N	5.86	128.06	120.44
1	1K	64	ALA	C-N-CA	5.86	128.06	120.44
1	hE	5	ASN	O-C-N	-5.86	116.41	123.27
1	hI	229	ARG	NE-CZ-NH2	-5.86	113.92	119.20
1	hJ	184	TRP	CE2-CD2-CE3	5.86	124.66	118.80
1	hX	82	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	1N	108	THR	N-CA-C	5.86	117.67	111.28
1	i9	15	ILE	CA-CB-CG2	5.86	120.47	110.50
1	in	132	ARG	CA-C-O	-5.86	114.66	120.82
1	is	19	THR	CA-CB-CG2	5.86	120.47	110.50
1	iF	130	TYR	CA-C-N	5.86	128.62	120.29
1	iF	130	TYR	C-N-CA	5.86	128.62	120.29
1	iI	61	GLY	CA-C-O	5.86	128.80	122.47
1	j0	72	THR	N-CA-C	5.86	118.17	111.02
1	j5	22	ALA	CA-C-O	5.86	126.76	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	176	GLN	O-C-N	-5.86	115.82	122.86
1	jx	58	THR	CA-C-O	5.86	126.58	119.31
1	jK	202	LEU	N-CA-CB	5.86	118.74	110.12
1	jO	38	PRO	N-CA-CB	5.86	110.01	103.44
1	jV	206	GLY	O-C-N	-5.86	115.91	121.77
1	kh	92	GLU	CA-C-O	-5.86	114.60	120.64
1	kk	230	VAL	N-CA-C	5.86	117.89	109.51
1	kp	181	VAL	CA-C-O	-5.86	114.85	120.95
1	kv	197	ASP	O-C-N	-5.86	115.93	122.03
1	kY	159	GLU	CA-C-O	-5.86	113.69	119.49
1	la	34	PRO	CA-C-N	5.86	132.74	121.54
1	la	34	PRO	C-N-CA	5.86	132.74	121.54
1	lr	65	ALA	CA-C-N	5.86	128.14	120.28
1	lr	65	ALA	C-N-CA	5.86	128.14	120.28
1	lA	204	ALA	CA-C-N	5.86	128.72	120.28
1	lA	204	ALA	C-N-CA	5.86	128.72	120.28
1	2u	55	MET	O-C-N	-5.86	116.03	122.07
1	2E	208	ALA	CA-C-N	5.86	130.81	121.66
1	2E	208	ALA	C-N-CA	5.86	130.81	121.66
1	36	7	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	3d	155	GLN	CG-CD-NE2	5.86	125.20	116.40
1	3g	34	PRO	CB-CA-C	5.86	121.23	111.56
1	3j	41	SER	O-C-N	-5.86	115.90	122.12
1	3k	26	VAL	CB-CA-C	-5.86	104.22	112.14
1	3k	87	HIS	CB-CG-ND1	5.86	131.50	122.70
1	3w	212	GLU	N-CA-C	5.86	117.67	111.28
1	3C	107	THR	N-CA-CB	5.86	119.00	110.26
1	3F	112	GLN	CA-C-N	5.86	128.06	120.44
1	3F	112	GLN	C-N-CA	5.86	128.06	120.44
1	3R	179	GLN	CA-C-O	5.86	126.76	120.55
1	4d	226	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	4e	51	ASP	CA-C-N	5.86	128.14	120.28
1	4e	51	ASP	C-N-CA	5.86	128.14	120.28
1	4A	211	LEU	CA-C-N	5.86	128.14	120.28
1	4A	211	LEU	C-N-CA	5.86	128.14	120.28
1	4E	7	GLN	O-C-N	-5.86	116.47	123.27
1	4Y	144	MET	N-CA-C	5.86	117.67	111.28
1	51	89	GLY	CA-C-N	5.86	125.80	119.76
1	51	89	GLY	C-N-CA	5.86	125.80	119.76
1	51	214	MET	CA-C-N	5.86	129.98	120.60
1	51	214	MET	C-N-CA	5.86	129.98	120.60
1	5f	89	GLY	CA-C-N	5.86	127.17	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	89	GLY	C-N-CA	5.86	127.17	119.84
1	5o	49	PRO	N-CA-CB	5.86	109.41	103.25
1	5I	94	GLY	CA-C-O	5.86	125.48	118.97
1	5I	131	LYS	N-CA-C	5.86	118.15	111.11
1	5K	96	MET	CA-C-O	5.86	127.66	120.92
1	5R	74	ASN	OD1-CG-ND2	5.86	128.46	122.60
1	5W	226	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	65	97	ARG	O-C-N	-5.86	116.11	122.79
1	6k	148	THR	O-C-N	-5.86	116.94	123.04
1	6q	154	ARG	CA-C-O	5.86	128.81	121.66
1	6W	127	GLY	CA-C-O	-5.86	114.33	120.90
1	6Y	90	PRO	O-C-N	-5.86	114.72	122.64
1	71	90	PRO	CA-C-O	-5.86	114.57	122.08
1	75	115	ILE	N-CA-C	5.86	118.38	111.05
1	7v	101	GLY	CA-C-O	5.86	126.55	120.80
1	7D	2	ILE	CA-C-O	5.86	127.33	120.71
1	7E	221	VAL	CA-C-N	5.86	130.41	120.91
1	7E	221	VAL	C-N-CA	5.86	130.41	120.91
1	7N	79	GLU	N-CA-C	5.86	117.67	111.28
1	7N	92	GLU	N-CA-C	-5.86	101.45	108.25
1	8a	52	LEU	N-CA-C	5.86	118.42	111.33
1	8d	148	THR	O-C-N	-5.86	116.32	123.30
1	8f	80	TRP	N-CA-C	5.86	118.43	111.33
1	8i	12	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	8R	126	VAL	N-CA-C	5.86	120.33	111.89
1	8Z	36	VAL	N-CA-C	5.86	117.31	110.62
1	9b	14	ALA	CA-C-N	5.86	128.43	120.63
1	9b	14	ALA	C-N-CA	5.86	128.43	120.63
1	9b	120	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	9g	228	ALA	N-CA-C	5.86	119.46	110.20
1	9h	68	MET	CA-C-N	5.86	128.14	120.28
1	9h	68	MET	C-N-CA	5.86	128.14	120.28
1	9s	39	MET	CA-C-O	-5.86	114.66	120.82
1	9D	14	ALA	N-CA-C	5.86	119.16	110.48
1	9H	133	TRP	CD2-CE2-CZ2	-5.86	116.54	122.40
1	am	118	MET	N-CA-C	5.86	118.62	111.82
1	an	119	THR	N-CA-C	-5.86	105.78	113.17
1	12	60	GLY	CA-C-N	5.86	129.93	121.54
1	12	60	GLY	C-N-CA	5.86	129.93	121.54
1	aI	196	PRO	N-CA-C	5.86	121.26	113.40
1	aM	50	GLN	CA-C-O	5.86	126.77	120.55
1	aU	32	PHE	CA-CB-CG	5.86	119.66	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aV	84	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	bm	139	ASN	N-CA-C	-5.86	104.89	111.28
1	bP	57	ASN	N-CA-C	5.86	117.67	111.28
1	bP	81	ASP	N-CA-C	5.86	117.67	111.28
1	c0	123	PRO	CA-C-O	-5.86	114.73	121.36
1	cj	112	GLN	N-CA-C	5.86	117.67	111.28
1	ck	84	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	1e	76	GLU	CB-CA-C	-5.86	101.67	110.88
1	cu	46	GLY	O-C-N	-5.86	116.56	122.54
1	cI	193	ASN	CA-CB-CG	5.86	118.46	112.60
1	cW	227	LYS	N-CA-C	5.86	120.05	113.01
1	d6	168	PHE	O-C-N	-5.86	115.76	122.09
1	d7	29	GLU	N-CA-C	5.86	117.67	111.28
1	dh	227	LYS	CA-C-O	5.86	126.76	119.78
1	dj	5	ASN	N-CA-C	5.86	117.67	111.28
1	dB	170	LYS	O-C-N	5.86	128.11	122.07
1	dN	170	LYS	N-CA-C	5.86	117.67	111.28
1	e1	102	SER	O-C-N	-5.86	115.52	122.20
1	eb	178	SER	CA-C-N	5.86	129.22	120.31
1	eb	178	SER	C-N-CA	5.86	129.22	120.31
1	eh	27	VAL	O-C-N	-5.86	115.17	121.80
1	eh	66	MET	O-C-N	-5.86	115.91	122.12
1	1r	184	TRP	CA-C-N	5.86	128.14	120.28
1	1r	184	TRP	C-N-CA	5.86	128.14	120.28
1	eV	40	PHE	N-CA-C	-5.86	104.80	111.07
1	eV	86	VAL	CA-C-O	-5.86	115.57	121.49
1	f9	186	THR	N-CA-C	5.86	117.67	111.28
1	fa	39	MET	CG-SD-CE	-5.86	88.00	100.90
1	fg	204	ALA	N-CA-C	-5.86	106.08	113.18
1	fo	219	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	fD	69	LEU	CA-C-N	5.86	128.06	120.44
1	fD	69	LEU	C-N-CA	5.86	128.06	120.44
1	fO	23	TRP	CB-CG-CD1	-5.86	118.10	126.90
1	fS	228	ALA	N-CA-C	5.86	118.51	110.24
1	c	189	LEU	CA-C-O	5.86	126.71	119.97
1	e	107	THR	CA-C-O	5.86	126.82	120.55
1	E	101	GLY	CA-C-N	5.86	128.14	120.28
1	E	101	GLY	C-N-CA	5.86	128.14	120.28
1	K	208	ALA	N-CA-C	5.86	119.28	111.30
1	M	41	SER	N-CA-C	5.86	117.67	111.28
1	S	71	GLU	CA-C-N	5.86	128.06	120.44
1	S	71	GLU	C-N-CA	5.86	128.06	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6	115	ILE	CA-C-N	5.86	126.33	119.94
1	6	115	ILE	C-N-CA	5.86	126.33	119.94
1	gw	174	ALA	N-CA-CB	-5.86	101.97	110.47
1	gC	18	ARG	N-CA-C	5.86	117.75	111.36
1	gL	80	TRP	N-CA-CB	5.86	118.74	110.12
1	gR	165	VAL	N-CA-C	5.86	116.05	110.42
1	ho	138	LEU	N-CA-CB	5.86	118.74	110.12
1	hz	162	ARG	N-CA-C	5.86	117.75	111.36
1	hF	13	GLN	CA-C-O	-5.86	115.04	121.31
1	id	170	LYS	N-CA-C	-5.86	104.84	112.23
1	is	162	ARG	CA-C-N	5.86	128.06	120.44
1	is	162	ARG	C-N-CA	5.86	128.06	120.44
1	j9	12	HIS	O-C-N	-5.86	116.39	123.13
1	jb	155	GLN	O-C-N	-5.86	116.36	123.16
1	jd	200	THR	CA-C-N	5.86	129.93	120.55
1	jd	200	THR	C-N-CA	5.86	129.93	120.55
1	kd	143	ARG	CA-C-N	5.86	130.51	120.72
1	kd	143	ARG	C-N-CA	5.86	130.51	120.72
1	21	211	LEU	O-C-N	-5.86	115.36	122.22
1	kz	183	ASN	CA-C-N	5.86	128.45	120.54
1	kz	183	ASN	C-N-CA	5.86	128.45	120.54
1	kO	175	GLU	N-CA-C	5.86	118.83	110.10
1	lh	172	LEU	CA-C-N	5.86	128.13	120.28
1	lh	172	LEU	C-N-CA	5.86	128.13	120.28
1	lx	103	ASP	N-CA-C	5.86	117.67	111.28
1	2i	171	THR	N-CA-C	-5.86	105.96	113.23
1	2y	37	ILE	O-C-N	-5.86	114.42	121.10
1	2C	68	MET	CA-C-N	5.86	128.41	120.44
1	2C	68	MET	C-N-CA	5.86	128.41	120.44
1	3h	183	ASN	N-CA-C	5.86	117.34	111.07
1	4k	154	ARG	NE-CZ-NH2	5.86	124.48	119.20
1	4k	226	HIS	CB-CG-ND1	-5.86	113.91	122.70
1	50	100	ARG	NE-CZ-NH2	-5.86	113.92	119.20
1	5k	48	THR	CA-C-N	5.86	125.34	119.24
1	5k	48	THR	C-N-CA	5.86	125.34	119.24
1	5B	188	THR	CA-C-N	5.86	128.72	120.28
1	5B	188	THR	C-N-CA	5.86	128.72	120.28
1	5M	5	ASN	N-CA-C	5.86	118.32	110.35
1	6e	147	PRO	O-C-N	5.86	130.55	122.64
1	6r	165	VAL	CG1-CB-CG2	-5.86	97.90	110.80
1	7s	212	GLU	O-C-N	-5.86	115.91	122.12
1	7N	177	ALA	N-CA-C	5.86	118.95	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	215	MET	CA-C-O	5.86	126.71	119.97
1	8V	49	PRO	CB-CA-C	5.86	121.23	111.56
1	90	84	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	9e	140	LYS	CA-C-N	5.86	128.06	120.56
1	9e	140	LYS	C-N-CA	5.86	128.06	120.56
1	9j	181	VAL	CA-C-O	5.86	127.38	121.17
1	9S	1	PRO	N-CD-CG	5.86	111.99	103.20
1	a1	89	GLY	CA-C-N	5.86	126.19	119.92
1	a1	89	GLY	C-N-CA	5.86	126.19	119.92
1	as	193	ASN	N-CA-CB	-5.86	101.47	110.44
1	aT	30	LYS	CA-C-N	5.86	128.13	120.28
1	aT	30	LYS	C-N-CA	5.86	128.13	120.28
1	bP	227	LYS	N-CA-C	5.86	118.73	110.23
1	bR	32	PHE	N-CA-C	5.86	118.01	108.63
1	cg	157	PRO	N-CA-CB	5.86	109.41	103.25
1	cS	112	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	d6	204	ALA	CA-C-O	-5.86	114.67	120.82
1	da	113	GLU	CB-CA-C	-5.86	100.88	110.85
1	dz	67	GLN	N-CA-C	5.86	118.14	111.11
1	dM	18	ARG	CA-C-N	5.86	128.13	120.28
1	dM	18	ARG	C-N-CA	5.86	128.13	120.28
1	dR	217	ALA	N-CA-C	5.86	118.11	110.43
1	dU	7	GLN	N-CA-CB	5.86	120.40	110.49
1	ez	52	LEU	O-C-N	-5.86	115.47	122.15
1	f3	180	GLU	O-C-N	-5.86	115.91	122.12
1	fc	116	GLY	CA-C-N	5.86	128.13	120.28
1	fc	116	GLY	C-N-CA	5.86	128.13	120.28
1	fg	3	VAL	CA-C-O	5.86	127.95	120.97
1	fk	137	GLY	N-CA-C	5.86	121.23	113.37
1	fu	190	LEU	CA-C-N	5.86	127.95	120.56
1	fu	190	LEU	C-N-CA	5.86	127.95	120.56
1	8	108	THR	CA-CB-OG1	5.86	118.39	109.60
1	g8	213	GLU	CA-C-O	5.86	127.17	120.90
1	ga	196	PRO	N-CA-C	5.86	124.54	112.47
1	gj	202	LEU	O-C-N	-5.86	115.47	122.15
1	gs	226	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	gx	84	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	1E	131	LYS	CG-CD-CE	5.86	124.78	111.30
1	gE	79	GLU	CA-C-N	5.86	128.13	120.28
1	gE	79	GLU	C-N-CA	5.86	128.13	120.28
1	gG	206	GLY	CA-C-N	5.86	125.87	119.89
1	gG	206	GLY	C-N-CA	5.86	125.87	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gG	211	LEU	N-CA-C	5.86	117.67	111.28
1	hb	84	HIS	CA-C-O	-5.86	113.31	120.05
1	hw	25	LYS	N-CA-C	5.86	117.67	111.28
1	hB	49	PRO	N-CA-CB	5.86	109.40	103.25
1	hP	53	ASN	CA-C-O	-5.86	113.48	120.10
1	hP	146	SER	CA-C-N	5.86	127.17	119.84
1	hP	146	SER	C-N-CA	5.86	127.17	119.84
1	hS	150	ILE	N-CA-C	-5.86	103.84	112.04
1	i2	177	ALA	CA-C-N	5.86	129.60	120.75
1	i2	177	ALA	C-N-CA	5.86	129.60	120.75
1	i3	210	THR	N-CA-C	5.86	118.27	110.53
1	i9	112	GLN	CA-C-N	5.86	128.06	120.44
1	i9	112	GLN	C-N-CA	5.86	128.06	120.44
1	id	160	PRO	N-CA-C	5.86	120.41	111.15
1	im	169	TYR	CA-C-N	5.86	128.61	120.29
1	im	169	TYR	C-N-CA	5.86	128.61	120.29
1	iJ	63	GLN	N-CA-C	5.86	119.69	112.54
1	iP	205	LEU	N-CA-C	5.86	117.34	111.07
1	1S	71	GLU	CA-C-O	5.86	126.76	120.55
1	j3	199	LYS	O-C-N	-5.86	115.91	122.12
1	jf	44	SER	CA-C-N	5.86	129.61	120.82
1	jf	44	SER	C-N-CA	5.86	129.61	120.82
1	jo	88	ALA	N-CA-C	5.86	117.98	109.07
1	js	197	ASP	O-C-N	-5.86	115.06	122.27
1	jF	153	ILE	CA-C-O	5.86	125.50	119.35
1	jR	56	LEU	N-CA-C	5.86	117.67	111.28
1	k3	37	ILE	CA-CB-CG1	5.86	120.36	110.40
1	k7	65	ALA	CA-C-O	5.86	126.76	120.55
1	ke	120	HIS	N-CA-C	5.86	118.11	110.43
1	ki	24	VAL	CB-CA-C	-5.86	104.13	112.22
1	kB	12	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	kT	132	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	kT	150	ILE	O-C-N	-5.86	116.19	121.87
1	ld	173	ARG	CA-C-O	5.86	126.97	120.82
1	lg	34	PRO	CA-C-N	5.86	129.98	120.60
1	lg	34	PRO	C-N-CA	5.86	129.98	120.60
1	lp	66	MET	N-CA-C	5.86	117.75	111.36
1	lC	53	ASN	O-C-N	-5.86	116.03	122.07
1	lH	13	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	lQ	148	THR	CA-C-O	5.86	126.29	119.32
1	2b	178	SER	CA-C-N	5.86	128.13	120.28
1	2b	178	SER	C-N-CA	5.86	128.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2g	91	ILE	O-C-N	-5.86	116.27	122.83
1	2g	116	GLY	CA-C-N	5.86	128.45	120.54
1	2g	116	GLY	C-N-CA	5.86	128.45	120.54
1	2m	227	LYS	N-CA-C	5.86	118.83	110.10
1	2r	219	GLN	O-C-N	-5.86	115.68	122.95
1	2u	150	ILE	CA-C-N	5.86	128.72	120.28
1	2u	150	ILE	C-N-CA	5.86	128.72	120.28
1	2x	54	THR	CA-CB-CG2	-5.86	100.54	110.50
1	2z	82	ARG	N-CA-C	5.86	120.43	113.16
1	2D	80	TRP	CZ3-CH2-CZ2	-5.86	113.88	121.50
1	2M	21	ASN	O-C-N	-5.86	115.91	122.12
1	3h	47	ALA	N-CA-C	5.86	118.76	110.50
1	3i	2	ILE	CA-C-N	5.86	128.95	120.98
1	3i	2	ILE	C-N-CA	5.86	128.95	120.98
1	3n	30	LYS	N-CA-C	-5.86	104.68	112.94
1	3t	195	ASN	CB-CA-C	5.86	118.82	109.62
1	3y	190	LEU	N-CA-C	5.86	117.67	111.28
1	3B	197	ASP	N-CA-C	5.86	117.67	111.28
1	3E	182	LYS	CA-C-N	5.86	128.06	120.44
1	3E	182	LYS	C-N-CA	5.86	128.06	120.44
1	3K	166	ASP	CA-CB-CG	5.86	118.46	112.60
1	3M	193	ASN	CA-C-O	5.86	126.42	119.56
1	3N	82	ARG	CA-C-N	5.86	129.43	120.82
1	3N	82	ARG	C-N-CA	5.86	129.43	120.82
1	3O	114	GLN	N-CA-C	5.86	117.67	111.28
1	3V	118	MET	CA-C-O	5.86	126.72	120.10
1	3Y	206	GLY	O-C-N	5.86	127.63	121.77
1	46	132	ARG	N-CA-C	5.86	117.67	111.28
1	4g	11	VAL	N-CA-CB	5.86	120.08	111.52
1	4k	67	GLN	CA-C-N	5.86	128.06	120.44
1	4k	67	GLN	C-N-CA	5.86	128.06	120.44
1	4n	168	PHE	CA-CB-CG	5.86	119.66	113.80
1	4L	107	THR	N-CA-C	-5.86	104.48	111.69
1	51	35	GLU	CA-C-N	5.86	128.49	120.46
1	51	35	GLU	C-N-CA	5.86	128.49	120.46
1	59	133	TRP	O-C-N	-5.86	115.47	122.15
1	59	184	TRP	CA-C-O	5.86	126.97	120.82
1	5B	105	ALA	CA-C-O	5.86	126.59	119.38
1	5D	226	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	6e	226	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	6A	201	ILE	CB-CA-C	5.86	119.47	111.97
1	6K	119	THR	CA-C-O	5.86	126.52	119.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	75	64	ALA	CA-C-O	5.86	126.63	120.42
1	79	180	GLU	CA-C-N	5.86	128.74	120.42
1	79	180	GLU	C-N-CA	5.86	128.74	120.42
1	7f	187	GLU	N-CA-CB	-5.86	101.31	110.98
1	7F	216	THR	N-CA-C	-5.86	106.26	113.41
1	7L	55	MET	N-CA-C	5.86	117.67	111.28
1	7R	71	GLU	CA-C-N	5.86	128.13	120.28
1	7R	71	GLU	C-N-CA	5.86	128.13	120.28
1	7R	147	PRO	CB-CA-C	5.86	121.23	111.56
1	81	110	THR	CA-CB-OG1	-5.86	100.81	109.60
1	85	202	LEU	O-C-N	-5.86	115.36	122.22
1	87	57	ASN	CA-C-N	-5.86	111.77	122.38
1	87	57	ASN	C-N-CA	-5.86	111.77	122.38
1	8x	195	ASN	O-C-N	-5.86	114.58	121.32
1	8L	51	ASP	CA-CB-CG	-5.86	106.74	112.60
1	92	22	ALA	CA-C-N	5.86	128.72	120.28
1	92	22	ALA	C-N-CA	5.86	128.72	120.28
1	9j	65	ALA	CA-C-N	5.86	128.13	120.28
1	9j	65	ALA	C-N-CA	5.86	128.13	120.28
1	9F	219	GLN	CA-C-N	5.86	132.90	121.41
1	9F	219	GLN	C-N-CA	5.86	132.90	121.41
1	9X	166	ASP	N-CA-CB	-5.86	101.50	110.12
1	a0	217	ALA	N-CA-C	5.86	118.73	110.23
1	a4	10	MET	CA-C-N	5.86	131.14	122.99
1	a4	10	MET	C-N-CA	5.86	131.14	122.99
1	a7	141	ILE	N-CA-CB	5.86	117.41	110.55
1	ad	45	GLU	N-CA-CB	5.86	118.66	109.69
1	aV	16	SER	CA-C-N	5.86	125.48	119.56
1	aV	16	SER	C-N-CA	5.86	125.48	119.56
1	b2	132	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	bc	17	PRO	CA-C-O	5.86	127.96	119.34
1	bj	5	ASN	O-C-N	-5.86	114.83	122.97
1	bp	5	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	bw	26	VAL	N-CA-CB	5.86	120.67	110.65
1	c7	90	PRO	CA-C-N	5.86	128.50	120.35
1	c7	90	PRO	C-N-CA	5.86	128.50	120.35
1	cg	172	LEU	N-CA-CB	5.86	118.67	109.94
1	ch	83	LEU	N-CA-C	5.86	117.67	111.28
1	cE	227	LYS	CA-C-O	5.86	127.59	121.38
1	cW	127	GLY	CA-C-N	5.86	128.06	120.44
1	cW	127	GLY	C-N-CA	5.86	128.06	120.44
1	d3	152	ASP	CA-C-O	-5.86	112.21	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	217	ALA	N-CA-C	5.86	118.62	111.82
1	d4	120	HIS	N-CA-C	5.86	118.76	110.50
1	d8	98	GLU	O-C-N	-5.86	114.58	121.32
1	d9	54	THR	CA-C-O	-5.86	114.34	120.55
1	dz	84	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	dG	82	ARG	CA-C-O	-5.86	114.67	120.82
1	dM	33	SER	CA-C-O	-5.86	114.07	120.69
1	dU	183	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	dV	122	PRO	CA-C-N	5.86	126.19	119.92
1	dV	122	PRO	C-N-CA	5.86	126.19	119.92
1	e0	162	ARG	N-CA-C	5.86	118.42	111.33
1	e5	139	ASN	O-C-N	-5.86	115.91	122.12
1	ed	198	CYS	CA-C-N	5.86	128.06	120.44
1	ed	198	CYS	C-N-CA	5.86	128.06	120.44
1	ei	156	GLY	CA-C-N	5.86	127.17	119.84
1	ei	156	GLY	C-N-CA	5.86	127.17	119.84
1	et	47	ALA	CB-CA-C	-5.86	100.19	109.80
1	ev	87	HIS	O-C-N	-5.86	116.09	123.01
1	eA	198	CYS	CA-C-N	5.86	128.13	120.28
1	eA	198	CYS	C-N-CA	5.86	128.13	120.28
1	eE	62	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	eK	126	VAL	N-CA-C	5.86	116.60	110.62
1	eL	170	LYS	O-C-N	-5.86	115.91	122.12
1	eX	192	GLN	O-C-N	5.86	128.33	122.12
1	f7	137	GLY	CA-C-N	5.86	128.13	120.28
1	f7	137	GLY	C-N-CA	5.86	128.13	120.28
1	fM	171	THR	CA-C-N	5.86	128.61	120.29
1	fM	171	THR	C-N-CA	5.86	128.61	120.29
1	fS	18	ARG	N-CA-C	5.86	117.67	111.28
1	g1	23	TRP	CB-CG-CD1	-5.86	118.11	126.90
1	g5	49	PRO	O-C-N	-5.86	115.50	122.24
1	g	17	PRO	CA-C-N	5.86	128.13	120.28
1	g	17	PRO	C-N-CA	5.86	128.13	120.28
1	F	210	THR	CA-CB-OG1	5.86	118.39	109.60
1	K	208	ALA	N-CA-CB	-5.86	103.24	111.62
1	V	75	GLU	N-CA-C	5.86	118.17	111.02
1	V	173	ARG	NH1-CZ-NH2	-5.86	111.68	119.30
1	ga	66	MET	N-CA-CB	5.86	118.73	110.12
1	ge	94	GLY	O-C-N	-5.86	115.59	122.50
1	gj	21	ASN	CA-C-N	5.86	128.61	120.29
1	gj	21	ASN	C-N-CA	5.86	128.61	120.29
1	gr	178	SER	N-CA-C	5.86	118.55	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gt	143	ARG	CA-C-O	-5.86	114.21	120.42
1	gJ	37	ILE	N-CA-CB	5.86	114.19	110.50
1	gQ	48	THR	O-C-N	-5.86	114.97	121.53
1	hh	59	VAL	N-CA-C	5.86	121.53	109.34
1	hk	138	LEU	O-C-N	-5.86	116.03	122.07
1	hm	142	VAL	N-CA-C	5.86	116.60	110.62
1	hq	72	THR	O-C-N	-5.86	115.47	122.15
1	hP	87	HIS	ND1-CE1-NE2	5.86	114.26	108.40
1	i1	184	TRP	CE2-CD2-CG	-5.86	100.17	107.20
1	1O	58	THR	N-CA-C	5.86	117.34	111.07
1	iM	110	THR	CA-C-N	5.86	128.41	120.38
1	iM	110	THR	C-N-CA	5.86	128.41	120.38
1	jt	26	VAL	CA-C-N	5.86	128.74	120.42
1	jt	26	VAL	C-N-CA	5.86	128.74	120.42
1	jv	62	HIS	CA-CB-CG	-5.86	107.94	113.80
1	jO	55	MET	CG-SD-CE	-5.86	88.01	100.90
1	jV	115	ILE	CA-C-N	5.86	126.44	120.00
1	jV	115	ILE	C-N-CA	5.86	126.44	120.00
1	k8	58	THR	N-CA-CB	5.86	119.58	110.44
1	ki	145	TYR	CG-CD1-CE1	-5.86	112.41	121.20
1	ko	74	ASN	CA-C-O	-5.86	113.48	120.10
1	kO	89	GLY	CA-C-O	-5.86	115.47	121.62
1	kO	179	GLN	N-CA-C	5.86	123.28	110.80
1	l4	90	PRO	CA-C-N	5.86	128.58	120.49
1	l4	90	PRO	C-N-CA	5.86	128.58	120.49
1	la	115	ILE	N-CA-C	-5.86	104.80	110.72
1	lP	225	GLY	CA-C-N	5.86	128.41	120.38
1	lP	225	GLY	C-N-CA	5.86	128.41	120.38
1	2b	189	LEU	N-CA-C	5.86	117.67	111.28
1	2f	40	PHE	CA-CB-CG	-5.86	107.94	113.80
1	2x	54	THR	CA-C-O	5.86	126.63	120.42
1	2J	211	LEU	CA-C-N	5.86	129.61	120.82
1	2J	211	LEU	C-N-CA	5.86	129.61	120.82
1	2M	138	LEU	N-CA-C	5.86	117.67	111.28
1	2R	230	VAL	CA-C-N	5.86	132.25	121.70
1	2R	230	VAL	C-N-CA	5.86	132.25	121.70
1	2X	12	HIS	CB-CG-CD2	-5.86	123.58	131.20
1	3h	15	ILE	O-C-N	-5.86	116.28	122.67
1	4G	183	ASN	N-CA-C	5.86	117.67	111.28
1	4U	65	ALA	N-CA-C	5.86	117.67	111.28
1	5i	197	ASP	CA-C-N	5.86	130.64	120.68
1	5i	197	ASP	C-N-CA	5.86	130.64	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5L	175	GLU	CB-CA-C	5.86	119.45	109.72
1	61	121	ASN	CB-CA-C	-5.86	102.28	110.13
1	6w	114	GLN	CA-C-O	5.86	126.76	120.55
1	6A	165	VAL	N-CA-C	5.86	116.64	110.72
1	6X	81	ASP	CA-C-O	5.86	126.76	120.55
1	74	186	THR	CA-CB-OG1	5.86	118.39	109.60
1	7F	197	ASP	CA-C-N	5.86	128.06	120.44
1	7F	197	ASP	C-N-CA	5.86	128.06	120.44
1	7H	175	GLU	N-CA-C	5.86	118.45	111.71
1	7N	211	LEU	N-CA-C	5.86	117.67	111.28
1	7U	125	PRO	CA-C-N	5.86	128.16	120.60
1	7U	125	PRO	C-N-CA	5.86	128.16	120.60
1	83	155	GLN	O-C-N	-5.86	117.15	123.42
1	8P	47	ALA	CA-C-O	5.86	127.16	120.54
1	9p	185	MET	CG-SD-CE	-5.86	88.01	100.90
1	9C	67	GLN	CA-C-O	5.86	126.97	120.82
1	a2	56	LEU	CB-CA-C	-5.86	100.89	110.85
1	ae	178	SER	O-C-N	-5.86	115.32	122.82
1	ar	217	ALA	CA-C-N	5.86	130.68	122.36
1	ar	217	ALA	C-N-CA	5.86	130.68	122.36
1	14	83	LEU	CA-C-O	5.86	126.76	120.55
1	aX	72	THR	CA-C-O	5.86	126.97	120.82
1	bw	80	TRP	CE2-CD2-CE3	5.86	124.66	118.80
1	bH	61	GLY	CA-C-O	-5.86	116.31	121.58
1	ci	64	ALA	N-CA-C	5.86	117.34	111.07
1	co	126	VAL	N-CA-CB	5.86	118.07	110.57
1	cI	63	GLN	N-CA-C	5.86	120.04	113.01
1	d2	170	LYS	N-CA-C	5.86	118.14	111.11
1	1j	112	GLN	N-CA-CB	-5.86	101.51	110.12
1	de	190	LEU	N-CA-C	5.86	118.14	111.11
1	dJ	21	ASN	O-C-N	-5.86	115.91	122.12
1	ea	87	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	eu	63	GLN	CA-C-O	-5.86	114.34	120.55
1	e	98	GLU	CA-C-O	-5.86	114.55	119.76
1	w	149	SER	CA-C-N	5.86	130.23	120.62
1	w	149	SER	C-N-CA	5.86	130.23	120.62
1	N	22	ALA	CA-C-N	5.86	128.13	120.28
1	N	22	ALA	C-N-CA	5.86	128.13	120.28
1	gc	146	SER	O-C-N	-5.86	116.19	121.17
1	gm	183	ASN	CA-C-O	-5.86	114.21	120.42
1	go	210	THR	N-CA-C	5.86	117.89	110.33
1	gy	204	ALA	O-C-N	-5.86	115.06	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	221	VAL	N-CA-CB	5.86	120.66	111.99
1	gz	221	VAL	CA-C-O	5.86	125.50	119.35
1	gD	33	SER	O-C-N	-5.86	116.38	121.71
1	gZ	136	LEU	O-C-N	-5.86	115.91	122.12
1	h1	25	LYS	N-CA-C	5.86	120.04	113.01
1	h5	22	ALA	N-CA-CB	5.86	118.83	110.16
1	hh	81	ASP	O-C-N	-5.86	115.91	122.12
1	hr	69	LEU	CA-C-N	5.86	128.61	120.29
1	hr	69	LEU	C-N-CA	5.86	128.61	120.29
1	hu	84	HIS	O-C-N	-5.86	115.21	121.42
1	hJ	194	ALA	CA-C-N	5.86	129.00	120.51
1	hJ	194	ALA	C-N-CA	5.86	129.00	120.51
1	hS	161	PHE	O-C-N	-5.86	116.04	122.07
1	i0	229	ARG	NE-CZ-NH2	-5.86	113.93	119.20
1	i4	141	ILE	CA-C-O	-5.86	114.86	120.95
1	i5	200	THR	N-CA-CB	5.86	118.67	109.94
1	ia	69	LEU	N-CA-C	5.86	118.14	111.11
1	ie	23	TRP	CB-CG-CD1	-5.86	118.11	126.90
1	if	27	VAL	CA-C-O	5.86	126.84	120.57
1	iu	48	THR	CA-CB-OG1	5.86	118.39	109.60
1	iu	203	LYS	O-C-N	-5.86	115.91	122.12
1	iz	189	LEU	N-CA-C	5.86	117.34	111.07
1	js	13	GLN	CB-CA-C	-5.86	99.64	109.48
1	jB	54	THR	CA-C-O	5.86	126.76	120.55
1	1Y	51	ASP	CA-C-N	5.86	128.61	120.29
1	1Y	51	ASP	C-N-CA	5.86	128.61	120.29
1	jQ	9	GLN	CB-CG-CD	5.86	122.56	112.60
1	k0	47	ALA	N-CA-C	5.86	118.85	110.24
1	k2	97	ARG	NE-CZ-NH2	-5.86	113.93	119.20
1	k6	146	SER	CA-C-O	-5.86	112.14	120.16
1	kp	189	LEU	CA-C-N	5.86	128.45	120.54
1	kp	189	LEU	C-N-CA	5.86	128.45	120.54
1	22	206	GLY	CA-C-N	5.86	125.53	119.56
1	22	206	GLY	C-N-CA	5.86	125.53	119.56
1	ku	153	ILE	CA-C-O	-5.86	114.30	120.57
1	kz	154	ARG	NH1-CZ-NH2	-5.86	111.69	119.30
1	kE	1	PRO	CB-CA-C	5.86	121.23	110.10
1	kK	147	PRO	O-C-N	-5.86	116.07	123.10
1	kS	33	SER	CA-C-O	-5.86	115.11	120.50
1	la	10	MET	N-CA-CB	-5.86	102.53	110.67
1	lh	112	GLN	CA-C-N	5.86	128.05	120.44
1	lh	112	GLN	C-N-CA	5.86	128.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	92	GLU	O-C-N	-5.86	115.27	121.30
1	lp	33	SER	CB-CA-C	5.86	118.78	109.52
1	lz	34	PRO	CA-C-N	5.86	128.93	120.38
1	lz	34	PRO	C-N-CA	5.86	128.93	120.38
1	lO	17	PRO	N-CA-CB	5.86	109.40	103.25
1	lR	32	PHE	CA-CB-CG	-5.86	107.94	113.80
1	lR	72	THR	CA-C-O	-5.86	114.63	121.07
1	2e	49	PRO	CB-CA-C	5.86	121.22	111.56
1	2m	149	SER	CA-C-N	5.86	128.49	120.46
1	2m	149	SER	C-N-CA	5.86	128.49	120.46
1	2B	201	ILE	O-C-N	-5.86	116.19	121.87
1	2G	7	GLN	N-CA-C	5.86	118.72	110.23
1	2M	98	GLU	CA-C-O	-5.86	114.32	120.70
1	2S	50	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	2S	92	GLU	N-CA-C	5.86	117.98	109.84
1	33	106	GLY	CA-C-O	5.86	125.29	118.96
1	3a	197	ASP	CA-C-O	5.86	126.97	120.82
1	3h	113	GLU	CA-C-O	-5.86	114.67	120.70
1	3z	200	THR	CB-CA-C	-5.86	101.68	110.88
1	3Q	169	TYR	O-C-N	-5.86	115.91	122.12
1	3R	84	HIS	CB-CG-CD2	-5.86	123.58	131.20
1	3S	130	TYR	CA-C-N	5.86	128.13	120.28
1	3S	130	TYR	C-N-CA	5.86	128.13	120.28
1	42	135	ILE	O-C-N	-5.86	116.19	121.87
1	44	197	ASP	CA-CB-CG	-5.86	106.74	112.60
1	47	120	HIS	CG-CD2-NE2	5.86	113.06	107.20
1	47	129	ILE	CA-CB-CG1	5.86	120.36	110.40
1	4a	190	LEU	N-CA-C	5.86	117.66	111.28
1	4e	34	PRO	N-CA-C	5.86	121.56	113.65
1	4r	71	GLU	CA-C-N	5.86	128.05	120.44
1	4r	71	GLU	C-N-CA	5.86	128.05	120.44
1	4P	78	ALA	N-CA-C	5.86	117.67	111.28
1	5u	87	HIS	CG-CD2-NE2	5.86	113.06	107.20
1	5E	183	ASN	CA-CB-CG	5.86	118.46	112.60
1	61	70	LYS	O-C-N	-5.86	116.00	122.09
1	61	92	GLU	N-CA-C	5.86	121.48	113.16
1	64	89	GLY	CA-C-N	5.86	126.20	119.93
1	64	89	GLY	C-N-CA	5.86	126.20	119.93
1	6d	16	SER	CA-C-N	5.86	125.23	118.85
1	6d	16	SER	C-N-CA	5.86	125.23	118.85
1	6p	178	SER	CA-C-N	5.86	128.40	120.38
1	6p	178	SER	C-N-CA	5.86	128.40	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6t	15	ILE	N-CA-C	5.86	116.97	109.30
1	6u	163	ASP	CA-C-N	5.86	128.06	120.44
1	6u	163	ASP	C-N-CA	5.86	128.06	120.44
1	6Q	216	THR	CA-CB-OG1	5.86	118.39	109.60
1	6R	62	HIS	CA-C-N	5.86	128.72	120.28
1	6R	62	HIS	C-N-CA	5.86	128.72	120.28
1	70	62	HIS	N-CA-C	5.86	119.32	111.24
1	7b	60	GLY	CA-C-N	5.86	128.68	121.06
1	7b	60	GLY	C-N-CA	5.86	128.68	121.06
1	7d	225	GLY	CA-C-O	5.86	129.32	122.76
1	7v	191	VAL	CA-C-O	5.86	126.67	119.58
1	7y	24	VAL	CA-C-N	5.86	128.45	120.54
1	7y	24	VAL	C-N-CA	5.86	128.45	120.54
1	7F	15	ILE	N-CA-C	5.86	116.84	108.93
1	7F	155	GLN	CB-CG-CD	-5.86	102.64	112.60
1	7H	154	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	89	37	ILE	CA-C-N	5.86	125.23	118.85
1	89	37	ILE	C-N-CA	5.86	125.23	118.85
1	8h	80	TRP	O-C-N	-5.86	115.06	122.27
1	92	126	VAL	CA-C-N	5.86	126.33	119.94
1	92	126	VAL	C-N-CA	5.86	126.33	119.94
1	9g	138	LEU	CA-C-N	5.86	128.06	120.44
1	9g	138	LEU	C-N-CA	5.86	128.06	120.44
1	9D	165	VAL	N-CA-C	5.86	116.59	110.62
1	9G	37	ILE	CA-C-N	5.86	126.00	119.32
1	9G	37	ILE	C-N-CA	5.86	126.00	119.32
1	9O	101	GLY	CA-C-O	5.86	126.78	120.75
1	9X	110	THR	N-CA-CB	5.86	120.22	110.85
1	a1	129	ILE	CA-C-N	5.86	128.13	120.28
1	a1	129	ILE	C-N-CA	5.86	128.13	120.28
1	a4	200	THR	O-C-N	-5.86	115.91	122.12
1	a7	122	PRO	CA-C-N	5.86	125.81	119.78
1	a7	122	PRO	C-N-CA	5.86	125.81	119.78
1	aj	97	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	aQ	176	GLN	CA-C-N	5.86	130.14	120.94
1	aQ	176	GLN	C-N-CA	5.86	130.14	120.94
1	aW	101	GLY	CA-C-N	5.86	128.13	120.28
1	aW	101	GLY	C-N-CA	5.86	128.13	120.28
1	bc	57	ASN	CA-CB-CG	5.86	118.46	112.60
1	bo	107	THR	CA-C-O	5.86	127.65	120.56
1	18	82	ARG	NH1-CZ-NH2	-5.86	111.69	119.30
1	bs	17	PRO	CA-C-N	5.86	128.13	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bs	17	PRO	C-N-CA	5.86	128.13	120.28
1	bs	183	ASN	N-CA-C	5.86	117.34	111.07
1	bx	21	ASN	CB-CA-C	5.86	120.51	110.79
1	by	212	GLU	N-CA-C	5.86	117.47	111.14
1	bW	167	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	bX	77	ALA	CB-CA-C	5.86	120.18	110.81
1	bZ	60	GLY	CA-C-N	5.86	127.15	120.53
1	bZ	60	GLY	C-N-CA	5.86	127.15	120.53
1	c1	15	ILE	CA-C-N	5.86	129.21	120.83
1	c1	15	ILE	C-N-CA	5.86	129.21	120.83
1	c3	202	LEU	N-CA-C	5.86	118.42	111.33
1	c7	195	ASN	CA-C-N	5.86	127.16	119.84
1	c7	195	ASN	C-N-CA	5.86	127.16	119.84
1	c8	101	GLY	CA-C-N	5.86	130.50	120.72
1	c8	101	GLY	C-N-CA	5.86	130.50	120.72
1	cg	97	ARG	CA-C-O	-5.86	114.75	121.19
1	cq	162	ARG	NE-CZ-NH2	-5.86	113.93	119.20
1	cv	188	THR	O-C-N	-5.86	114.80	122.59
1	cL	133	TRP	O-C-N	-5.86	115.47	122.15
1	cX	77	ALA	N-CA-C	5.86	117.66	111.28
1	d8	132	ARG	N-CA-C	5.86	117.66	111.28
1	dj	37	ILE	CA-C-N	5.86	125.23	118.85
1	dj	37	ILE	C-N-CA	5.86	125.23	118.85
1	do	7	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	dw	229	ARG	NE-CZ-NH2	5.86	124.47	119.20
1	dM	16	SER	CA-C-N	5.86	127.16	119.84
1	dM	16	SER	C-N-CA	5.86	127.16	119.84
1	dR	5	ASN	O-C-N	-5.86	116.34	122.96
1	e3	101	GLY	O-C-N	-5.86	116.57	122.19
1	e4	77	ALA	O-C-N	5.86	128.33	122.12
1	e8	179	GLN	N-CA-C	5.86	118.42	111.33
1	ep	183	ASN	OD1-CG-ND2	-5.86	116.74	122.60
1	ev	34	PRO	CA-C-O	5.86	129.00	119.86
1	ev	126	VAL	CA-C-N	5.86	126.44	119.94
1	ev	126	VAL	C-N-CA	5.86	126.44	119.94
1	eB	1	PRO	CB-CA-C	5.86	121.23	110.10
1	eB	89	GLY	CA-C-N	5.86	125.79	119.76
1	eB	89	GLY	C-N-CA	5.86	125.79	119.76
1	eC	147	PRO	N-CA-C	5.86	121.23	114.20
1	eJ	146	SER	CA-C-O	-5.86	114.61	120.64
1	eU	48	THR	N-CA-CB	5.86	117.95	110.04
1	eY	184	TRP	N-CA-C	5.86	117.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f0	171	THR	CA-C-N	5.86	128.71	120.28
1	f0	171	THR	C-N-CA	5.86	128.71	120.28
1	f1	120	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	fa	214	MET	N-CA-C	5.86	117.75	111.36
1	fn	35	GLU	N-CA-C	5.86	117.67	111.28
1	fu	40	PHE	N-CA-CB	5.86	118.73	110.12
1	fC	120	HIS	CG-CD2-NE2	5.86	113.06	107.20
1	fF	68	MET	N-CA-C	5.86	117.67	111.28
1	fV	167	ARG	CA-C-O	5.86	126.76	120.55
1	g2	173	ARG	CA-C-N	5.86	130.60	120.58
1	g2	173	ARG	C-N-CA	5.86	130.60	120.58
1	g3	77	ALA	CA-C-O	5.86	126.95	120.63
1	e	139	ASN	O-C-N	-5.86	116.00	122.09
1	v	69	LEU	N-CA-C	5.86	118.14	111.11
1	y	192	GLN	O-C-N	-5.86	115.91	122.12
1	A	154	ARG	N-CA-C	-5.86	101.79	110.46
1	5	132	ARG	NH1-CZ-NH2	-5.86	111.69	119.30
1	6	148	THR	CA-C-O	5.86	127.63	121.19
1	ga	65	ALA	CA-C-N	5.86	128.13	120.28
1	ga	65	ALA	C-N-CA	5.86	128.13	120.28
1	gg	177	ALA	CA-C-N	5.86	130.76	120.87
1	gg	177	ALA	C-N-CA	5.86	130.76	120.87
1	gD	6	LEU	CA-C-O	5.86	127.59	121.15
1	gD	154	ARG	CA-CB-CG	5.86	125.81	114.10
1	gG	205	LEU	N-CA-C	-5.86	105.03	111.82
1	gJ	167	ARG	CA-C-O	5.86	126.63	120.42
1	gN	34	PRO	CA-C-N	5.86	128.13	120.28
1	gN	34	PRO	C-N-CA	5.86	128.13	120.28
1	h4	57	ASN	O-C-N	-5.86	114.38	122.46
1	1H	167	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	1I	112	GLN	CA-C-N	5.86	128.60	120.29
1	1I	112	GLN	C-N-CA	5.86	128.60	120.29
1	hl	27	VAL	O-C-N	-5.86	116.17	121.91
1	hE	15	ILE	N-CA-C	5.86	117.59	109.80
1	hH	215	MET	CA-C-N	5.86	128.05	120.44
1	hH	215	MET	C-N-CA	5.86	128.05	120.44
1	hN	20	LEU	CA-C-N	5.86	128.13	120.28
1	hN	20	LEU	C-N-CA	5.86	128.13	120.28
1	1M	218	CYS	N-CA-CB	5.86	120.39	110.49
1	1N	150	ILE	N-CA-C	5.86	118.37	111.05
1	ij	108	THR	CA-CB-OG1	5.86	118.38	109.60
1	is	197	ASP	CA-C-O	-5.86	114.67	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iK	115	ILE	CA-C-O	5.86	126.79	120.47
1	iR	20	LEU	CA-C-N	5.86	128.40	120.44
1	iR	20	LEU	C-N-CA	5.86	128.40	120.44
1	iS	124	ILE	N-CA-C	5.86	113.95	108.15
1	iT	205	LEU	CA-C-N	5.86	131.06	121.87
1	iT	205	LEU	C-N-CA	5.86	131.06	121.87
1	iY	143	ARG	N-CA-CB	-5.86	101.50	110.16
1	j4	193	ASN	N-CA-C	-5.86	105.90	113.16
1	jd	62	HIS	ND1-CG-CD2	5.86	111.95	106.10
1	jd	174	ALA	CA-C-O	5.86	126.79	119.12
1	ju	142	VAL	CA-CB-CG1	5.86	120.35	110.40
1	ju	173	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	1W	76	GLU	N-CA-C	5.86	117.66	111.28
1	jH	130	TYR	N-CA-C	5.86	117.34	111.07
1	jR	165	VAL	O-C-N	5.86	127.65	121.91
1	k0	29	GLU	N-CA-C	5.86	117.66	111.28
1	kr	132	ARG	N-CA-C	5.86	117.66	111.28
1	kt	212	GLU	O-C-N	-5.86	115.91	122.12
1	23	75	GLU	N-CA-C	5.86	117.66	111.28
1	kQ	16	SER	CA-C-N	5.86	127.16	119.84
1	kQ	16	SER	C-N-CA	5.86	127.16	119.84
1	kS	37	ILE	N-CA-C	5.86	121.53	108.88
1	kU	105	ALA	CA-C-O	5.86	126.66	119.05
1	l6	37	ILE	CA-CB-CG2	5.86	120.45	110.50
1	l9	150	ILE	CA-C-N	5.86	128.71	120.28
1	l9	150	ILE	C-N-CA	5.86	128.71	120.28
1	la	20	LEU	O-C-N	-5.86	115.91	122.12
1	lf	195	ASN	CB-CA-C	-5.86	100.43	109.62
1	lk	5	ASN	O-C-N	-5.86	116.33	123.30
1	lo	132	ARG	N-CA-CB	-5.86	101.49	110.16
1	lv	64	ALA	CA-C-O	5.86	126.73	120.70
1	lv	139	ASN	CA-C-N	5.86	128.40	120.44
1	lv	139	ASN	C-N-CA	5.86	128.40	120.44
1	lz	84	HIS	ND1-CE1-NE2	5.86	114.25	108.40
1	2a	189	LEU	N-CA-C	5.86	117.66	111.28
1	2o	16	SER	CA-C-N	5.86	126.00	119.32
1	2o	16	SER	C-N-CA	5.86	126.00	119.32
1	2G	108	THR	N-CA-CB	5.86	118.50	110.01
1	2Q	2	ILE	CA-C-N	5.86	130.73	123.12
1	2Q	2	ILE	C-N-CA	5.86	130.73	123.12
1	2U	37	ILE	O-C-N	-5.86	114.42	121.10
1	2V	133	TRP	CA-C-N	5.86	128.15	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2V	133	TRP	C-N-CA	5.86	128.15	120.60
1	2X	164	TYR	N-CA-C	5.86	119.68	112.54
1	39	107	THR	CA-C-O	5.86	125.23	118.97
1	39	129	ILE	N-CA-C	-5.86	104.80	110.42
1	3w	91	ILE	O-C-N	-5.86	116.56	123.00
1	3w	128	GLU	N-CA-C	5.86	117.66	111.28
1	42	70	LYS	N-CA-C	5.86	117.66	111.28
1	4h	179	GLN	OE1-CD-NE2	-5.86	116.74	122.60
1	4X	80	TRP	CD2-CE2-CZ2	-5.86	116.55	122.40
1	50	151	LEU	CA-C-O	-5.86	114.21	120.42
1	52	209	ALA	N-CA-C	5.86	118.97	110.42
1	58	212	GLU	N-CA-C	5.86	117.66	111.28
1	5c	135	ILE	N-CA-C	5.86	116.59	110.62
1	5v	92	GLU	CA-C-O	-5.86	114.07	120.69
1	5y	16	SER	N-CA-C	5.86	117.27	109.83
1	5T	184	TRP	O-C-N	-5.86	115.91	122.12
1	64	159	GLU	N-CA-C	5.86	117.03	109.65
1	6e	14	ALA	N-CA-C	5.86	118.94	110.28
1	6h	135	ILE	CA-C-N	5.86	128.13	120.28
1	6h	135	ILE	C-N-CA	5.86	128.13	120.28
1	6i	138	LEU	O-C-N	-5.86	115.47	122.15
1	6y	225	GLY	N-CA-C	5.86	119.76	112.73
1	7t	177	ALA	O-C-N	-5.86	116.48	123.27
1	7u	195	ASN	CA-C-O	-5.86	114.08	120.17
1	7O	34	PRO	CA-C-N	5.86	128.71	120.28
1	7O	34	PRO	C-N-CA	5.86	128.71	120.28
1	8h	117	TRP	N-CA-C	5.86	117.66	111.28
1	8r	72	THR	CA-C-N	5.86	128.48	120.46
1	8r	72	THR	C-N-CA	5.86	128.48	120.46
1	8u	166	ASP	O-C-N	-5.86	116.00	122.09
1	8H	150	ILE	CA-C-N	5.86	128.71	120.28
1	8H	150	ILE	C-N-CA	5.86	128.71	120.28
1	8J	112	GLN	O-C-N	-5.86	115.37	122.22
1	8V	107	THR	N-CA-CB	5.86	118.47	109.98
1	91	117	TRP	CA-C-O	5.86	126.97	120.82
1	9p	57	ASN	CA-CB-CG	-5.86	106.74	112.60
1	9q	107	THR	CA-C-N	5.86	132.17	122.33
1	9q	107	THR	C-N-CA	5.86	132.17	122.33
1	9r	125	PRO	CA-C-N	5.86	129.72	120.47
1	9r	125	PRO	C-N-CA	5.86	129.72	120.47
1	9D	168	PHE	CA-C-O	5.86	126.97	120.82
1	9H	26	VAL	N-CA-C	5.86	116.04	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9K	166	ASP	N-CA-CB	-5.86	101.51	110.12
1	9P	154	ARG	O-C-N	-5.86	116.08	123.17
1	a1	151	LEU	O-C-N	-5.86	115.91	122.12
1	aw	51	ASP	CA-C-N	5.86	128.13	120.28
1	aw	51	ASP	C-N-CA	5.86	128.13	120.28
1	ax	120	HIS	ND1-CE1-NE2	5.86	114.25	108.40
1	ay	119	THR	CA-CB-OG1	5.86	118.38	109.60
1	aE	52	LEU	CA-C-N	5.86	128.61	120.29
1	aE	52	LEU	C-N-CA	5.86	128.61	120.29
1	b0	41	SER	CA-C-O	5.86	126.76	120.55
1	b7	161	PHE	CB-CA-C	5.86	120.02	110.24
1	bb	103	ASP	CA-CB-CG	-5.86	106.74	112.60
1	bd	6	LEU	O-C-N	-5.86	116.92	123.48
1	bi	30	LYS	CB-CA-C	-5.86	101.28	110.94
1	bj	148	THR	CA-CB-OG1	5.86	118.39	109.60
1	bs	204	ALA	CA-C-N	5.86	128.45	120.54
1	bs	204	ALA	C-N-CA	5.86	128.45	120.54
1	1a	59	VAL	CG1-CB-CG2	-5.86	97.92	110.80
1	bU	226	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
1	cx	178	SER	CA-C-N	5.86	128.40	120.38
1	cx	178	SER	C-N-CA	5.86	128.40	120.38
1	1g	20	LEU	CA-C-N	5.86	128.05	120.44
1	1g	20	LEU	C-N-CA	5.86	128.05	120.44
1	1h	125	PRO	CA-C-O	-5.86	116.87	121.38
1	d5	108	THR	CA-C-N	5.86	129.03	120.71
1	d5	108	THR	C-N-CA	5.86	129.03	120.71
1	d5	111	LEU	CA-C-O	5.86	126.76	120.55
1	d8	14	ALA	CA-C-N	5.86	130.99	121.62
1	d8	14	ALA	C-N-CA	5.86	130.99	121.62
1	dr	203	LYS	CA-C-O	-5.86	114.21	120.42
1	dx	75	GLU	O-C-N	-5.86	115.48	122.15
1	dL	90	PRO	O-C-N	5.86	130.54	122.64
1	dM	105	ALA	CB-CA-C	-5.86	100.67	110.56
1	ep	74	ASN	CA-C-N	5.86	128.05	120.44
1	ep	74	ASN	C-N-CA	5.86	128.05	120.44
1	ez	108	THR	CA-CB-OG1	5.86	118.38	109.60
1	eT	146	SER	O-C-N	-5.86	115.76	121.38
1	f4	164	TYR	N-CA-C	5.86	117.66	111.28
1	fh	20	LEU	CA-C-N	5.86	128.05	120.44
1	fh	20	LEU	C-N-CA	5.86	128.05	120.44
1	fl	153	ILE	N-CA-C	5.86	117.01	108.58
1	fo	134	ILE	CA-C-N	5.86	128.48	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fo	134	ILE	C-N-CA	5.86	128.48	120.46
1	fp	18	ARG	N-CA-C	5.86	117.66	111.28
1	1x	134	ILE	CA-C-O	5.86	127.38	121.17
1	fC	229	ARG	NE-CZ-NH1	5.86	127.36	121.50
1	fP	226	HIS	CB-CG-CD2	-5.86	123.59	131.20
1	s	124	ILE	O-C-N	-5.86	116.89	121.46
1	u	139	ASN	CA-C-N	5.86	128.05	120.44
1	u	139	ASN	C-N-CA	5.86	128.05	120.44
1	G	195	ASN	CA-C-N	5.86	127.16	119.84
1	G	195	ASN	C-N-CA	5.86	127.16	119.84
1	L	7	GLN	N-CA-CB	5.86	120.99	111.74
1	9	63	GLN	N-CA-C	5.86	118.14	111.11
1	g8	72	THR	N-CA-C	5.85	118.13	111.11
1	g9	140	LYS	N-CA-CB	5.85	118.84	110.06
1	gk	76	GLU	CA-C-N	5.85	128.60	120.29
1	gk	76	GLU	C-N-CA	5.85	128.60	120.29
1	1E	71	GLU	CA-C-O	-5.85	114.67	120.70
1	gF	54	THR	O-C-N	-5.85	116.04	122.07
1	hl	216	THR	CA-C-N	5.85	129.02	120.71
1	hl	216	THR	C-N-CA	5.85	129.02	120.71
1	hq	175	GLU	N-CA-C	5.85	118.72	110.23
1	hR	51	ASP	CA-C-N	5.85	128.12	120.28
1	hR	51	ASP	C-N-CA	5.85	128.12	120.28
1	hT	77	ALA	CB-CA-C	-5.85	101.65	110.90
1	ig	62	HIS	N-CA-CB	5.85	120.38	110.49
1	iu	155	GLN	OE1-CD-NE2	5.85	128.45	122.60
1	iN	170	LYS	N-CA-C	5.85	117.33	111.07
1	j6	4	GLN	CA-C-O	5.85	126.81	120.43
1	jG	21	ASN	CB-CA-C	-5.85	101.07	110.79
1	jH	127	GLY	CA-C-N	5.85	128.44	120.54
1	jH	127	GLY	C-N-CA	5.85	128.44	120.54
1	jT	199	LYS	CA-C-O	5.85	126.76	120.20
1	jU	215	MET	N-CA-C	5.85	117.66	111.28
1	jW	96	MET	CG-SD-CE	-5.85	88.02	100.90
1	k5	64	ALA	N-CA-C	5.85	117.74	111.36
1	kg	120	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	kx	22	ALA	N-CA-CB	-5.85	101.52	110.12
1	kz	93	PRO	O-C-N	-5.85	114.74	122.64
1	l7	54	THR	CA-C-O	-5.85	114.22	120.42
1	26	162	ARG	NH1-CZ-NH2	5.85	126.91	119.30
1	l9	62	HIS	ND1-CG-CD2	5.85	111.95	106.10
1	lb	173	ARG	CA-C-O	-5.85	114.34	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	73	ILE	CA-C-N	5.85	128.44	120.54
1	lh	73	ILE	C-N-CA	5.85	128.44	120.54
1	lh	146	SER	CA-C-N	5.85	127.16	119.84
1	lh	146	SER	C-N-CA	5.85	127.16	119.84
1	ll	74	ASN	CA-CB-CG	5.85	118.45	112.60
1	lm	19	THR	O-C-N	5.85	128.41	122.09
1	lH	43	LEU	O-C-N	5.85	129.07	122.22
1	lO	59	VAL	N-CA-CB	5.85	119.26	110.13
1	2f	74	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	2z	3	VAL	CA-C-N	5.85	129.42	121.05
1	2z	3	VAL	C-N-CA	5.85	129.42	121.05
1	2F	52	LEU	N-CA-C	5.85	117.33	111.07
1	2R	186	THR	CA-CB-OG1	5.85	118.38	109.60
1	34	177	ALA	N-CA-C	5.85	117.85	110.24
1	3H	126	VAL	CA-C-N	5.85	126.44	119.94
1	3H	126	VAL	C-N-CA	5.85	126.44	119.94
1	46	60	GLY	CA-C-N	5.85	125.66	120.10
1	46	60	GLY	C-N-CA	5.85	125.66	120.10
1	4q	166	ASP	CA-C-N	5.85	128.44	120.54
1	4q	166	ASP	C-N-CA	5.85	128.44	120.54
1	4u	50	GLN	N-CA-C	5.85	117.66	111.28
1	4G	43	LEU	CA-C-O	5.85	126.75	120.55
1	4L	184	TRP	CD2-CE2-CZ2	5.85	128.25	122.40
1	5B	55	MET	N-CA-C	5.85	117.33	111.07
1	5Y	5	ASN	CA-C-N	5.85	132.33	121.62
1	5Y	5	ASN	C-N-CA	5.85	132.33	121.62
1	5Y	167	ARG	CA-C-O	5.85	126.73	120.70
1	7c	89	GLY	CA-C-O	-5.85	113.15	121.52
1	7q	135	ILE	O-C-N	-5.85	116.19	121.87
1	80	191	VAL	N-CA-C	5.85	117.29	110.62
1	82	190	LEU	N-CA-CB	-5.85	101.28	110.06
1	94	58	THR	CA-C-N	5.85	128.94	120.98
1	94	58	THR	C-N-CA	5.85	128.94	120.98
1	9i	70	LYS	CA-C-N	5.85	128.12	120.28
1	9i	70	LYS	C-N-CA	5.85	128.12	120.28
1	9u	186	THR	CA-C-N	-5.85	113.47	122.60
1	9u	186	THR	C-N-CA	-5.85	113.47	122.60
1	9Q	121	ASN	O-C-N	-5.85	116.18	121.39
1	a0	136	LEU	N-CA-CB	-5.85	101.52	110.12
1	aj	176	GLN	O-C-N	-5.85	115.48	122.27
1	aB	212	GLU	O-C-N	-5.85	115.92	122.12
1	13	162	ARG	NE-CZ-NH1	5.85	127.35	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	184	TRP	O-C-N	-5.85	116.04	122.07
1	bk	165	VAL	CA-CB-CG1	5.85	120.35	110.40
1	bo	9	GLN	N-CA-C	5.85	119.18	111.28
1	bB	87	HIS	CA-CB-CG	5.85	119.65	113.80
1	bP	186	THR	CA-CB-CG2	-5.85	100.55	110.50
1	ch	115	ILE	N-CA-C	-5.85	104.81	110.72
1	ch	149	SER	CA-C-N	5.85	128.78	120.53
1	ch	149	SER	C-N-CA	5.85	128.78	120.53
1	cj	168	PHE	N-CA-C	5.85	117.33	111.07
1	cu	159	GLU	CA-C-O	-5.85	114.99	119.32
1	1f	110	THR	N-CA-C	-5.85	99.51	108.76
1	cJ	19	THR	CA-C-O	5.85	126.97	120.82
1	cW	126	VAL	O-C-N	-5.85	116.15	121.89
1	dw	116	GLY	O-C-N	5.85	127.80	122.18
1	1l	120	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	dI	8	GLY	CA-C-N	5.85	129.42	121.05
1	dI	8	GLY	C-N-CA	5.85	129.42	121.05
1	e4	184	TRP	CA-C-O	5.85	126.75	120.55
1	ed	117	TRP	N-CA-C	5.85	118.44	111.71
1	eo	195	ASN	CB-CA-C	5.85	118.77	109.52
1	et	39	MET	CA-C-N	5.85	128.12	120.28
1	et	39	MET	C-N-CA	5.85	128.12	120.28
1	eC	54	THR	N-CA-CB	5.85	118.50	110.01
1	eG	16	SER	CB-CA-C	-5.85	102.11	109.31
1	eJ	11	VAL	O-C-N	-5.85	117.09	123.18
1	eJ	138	LEU	CA-C-N	5.85	128.44	120.54
1	eJ	138	LEU	C-N-CA	5.85	128.44	120.54
1	eX	86	VAL	CA-C-N	5.85	129.02	120.71
1	eX	86	VAL	C-N-CA	5.85	129.02	120.71
1	1u	175	GLU	CB-CA-C	5.85	120.10	109.62
1	fh	13	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	fi	71	GLU	CA-C-N	5.85	128.12	120.28
1	fi	71	GLU	C-N-CA	5.85	128.12	120.28
1	fq	143	ARG	CD-NE-CZ	5.85	132.59	124.40
1	fB	100	ARG	CA-C-O	-5.85	115.04	121.89
1	fF	56	LEU	N-CA-C	5.85	117.33	111.07
1	fH	166	ASP	O-C-N	-5.85	115.77	122.09
1	g5	229	ARG	NE-CZ-NH2	-5.85	113.93	119.20
1	b	67	GLN	N-CA-C	5.85	117.66	111.28
1	c	62	HIS	CB-CG-CD2	5.85	138.81	131.20
1	g	62	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	o	211	LEU	CA-C-N	5.85	128.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	211	LEU	C-N-CA	5.85	128.05	120.44
1	A	96	MET	CA-CB-CG	5.85	125.81	114.10
1	C	7	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	H	193	ASN	CA-C-N	5.85	129.59	120.75
1	H	193	ASN	C-N-CA	5.85	129.59	120.75
1	g8	23	TRP	CA-C-N	5.85	128.78	120.53
1	g8	23	TRP	C-N-CA	5.85	128.78	120.53
1	gd	147	PRO	N-CA-C	5.85	121.24	113.57
1	1D	191	VAL	O-C-N	-5.85	116.82	122.09
1	gG	36	VAL	CA-CB-CG2	5.85	120.35	110.40
1	1F	64	ALA	CA-C-O	-5.85	114.68	120.82
1	gZ	160	PRO	O-C-N	-5.85	115.56	122.99
1	ho	97	ARG	O-C-N	-5.85	114.52	122.36
1	ht	42	ALA	N-CA-C	5.85	117.74	111.36
1	hQ	145	TYR	CB-CG-CD1	-5.85	112.02	120.80
1	hY	210	THR	CA-C-N	5.85	128.40	120.38
1	hY	210	THR	C-N-CA	5.85	128.40	120.38
1	hZ	92	GLU	CA-C-N	5.85	125.79	119.76
1	hZ	92	GLU	C-N-CA	5.85	125.79	119.76
1	i3	119	THR	N-CA-CB	5.85	119.15	110.49
1	1P	97	ARG	O-C-N	-5.85	115.33	122.82
1	iF	121	ASN	CA-CB-CG	5.85	118.45	112.60
1	iJ	186	THR	O-C-N	5.85	128.32	122.12
1	jf	166	ASP	N-CA-C	5.85	117.66	111.28
1	jj	165	VAL	N-CA-C	5.85	116.59	110.62
1	jn	85	PRO	CA-C-N	5.85	132.51	121.97
1	jn	85	PRO	C-N-CA	5.85	132.51	121.97
1	jp	166	ASP	O-C-N	-5.85	115.92	122.12
1	js	4	GLN	N-CA-CB	5.85	120.38	110.49
1	jv	97	ARG	NE-CZ-NH2	-5.85	113.93	119.20
1	jx	57	ASN	CA-CB-CG	5.85	118.45	112.60
1	jA	174	ALA	CA-C-N	5.85	129.42	121.05
1	jA	174	ALA	C-N-CA	5.85	129.42	121.05
1	jI	72	THR	CA-C-N	5.85	128.48	120.46
1	jI	72	THR	C-N-CA	5.85	128.48	120.46
1	jQ	97	ARG	NE-CZ-NH2	5.85	124.47	119.20
1	kl	154	ARG	N-CA-C	5.85	118.49	110.24
1	26	159	GLU	CA-C-N	5.85	125.83	120.03
1	26	159	GLU	C-N-CA	5.85	125.83	120.03
1	ln	226	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	lG	226	HIS	CA-CB-CG	-5.85	107.95	113.80
1	lK	200	THR	N-CA-C	5.85	117.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	53	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	2k	37	ILE	CA-C-O	-5.85	114.77	118.69
1	33	55	MET	N-CA-C	5.85	117.33	111.07
1	3e	179	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	3p	92	GLU	N-CA-C	5.85	122.74	109.81
1	3x	34	PRO	N-CA-CB	-5.85	97.64	103.20
1	3F	107	THR	N-CA-CB	5.85	119.13	110.53
1	3H	227	LYS	O-C-N	-5.85	114.81	122.59
1	43	103	ASP	O-C-N	5.85	128.32	122.12
1	43	200	THR	CA-C-O	5.85	126.75	120.55
1	5c	130	TYR	CA-C-N	5.85	128.12	120.28
1	5c	130	TYR	C-N-CA	5.85	128.12	120.28
1	5g	70	LYS	O-C-N	-5.85	115.07	122.27
1	5i	97	ARG	N-CA-C	-5.85	98.33	110.80
1	5u	35	GLU	CA-C-O	5.85	126.70	119.79
1	5x	97	ARG	O-C-N	-5.85	116.04	123.06
1	5G	3	VAL	O-C-N	-5.85	117.35	123.03
1	5R	64	ALA	CA-C-O	5.85	126.62	120.42
1	61	37	ILE	N-CA-CB	5.85	115.02	110.45
1	67	5	ASN	N-CA-C	5.85	119.18	109.46
1	6e	126	VAL	CA-C-N	5.85	126.44	120.00
1	6e	126	VAL	C-N-CA	5.85	126.44	120.00
1	6l	79	GLU	CA-C-N	5.85	128.40	120.38
1	6l	79	GLU	C-N-CA	5.85	128.40	120.38
1	6p	84	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	6w	143	ARG	CA-C-N	5.85	128.60	120.29
1	6w	143	ARG	C-N-CA	5.85	128.60	120.29
1	6P	98	GLU	N-CA-C	5.85	118.16	110.08
1	7e	12	HIS	CB-CG-ND1	5.85	131.48	122.70
1	7e	21	ASN	OD1-CG-ND2	5.85	128.45	122.60
1	7h	183	ASN	N-CA-C	5.85	117.66	111.28
1	7q	224	PRO	CA-C-N	5.85	132.88	121.41
1	7q	224	PRO	C-N-CA	5.85	132.88	121.41
1	7K	1	PRO	CA-N-CD	-5.85	103.81	112.00
1	81	213	GLU	N-CA-C	5.85	117.74	111.36
1	8f	92	GLU	N-CA-C	5.85	120.86	113.25
1	8s	54	THR	N-CA-C	5.85	118.44	111.71
1	8y	183	ASN	N-CA-CB	-5.85	101.52	110.01
1	8z	19	THR	N-CA-CB	5.85	118.82	110.16
1	9e	107	THR	N-CA-C	-5.85	106.30	113.50
1	9v	132	ARG	N-CA-C	5.85	117.66	111.28
1	9H	65	ALA	N-CA-C	5.85	117.66	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9J	190	LEU	CA-C-N	5.85	128.05	120.56
1	9J	190	LEU	C-N-CA	5.85	128.05	120.56
1	9O	9	GLN	N-CA-C	5.85	118.72	110.23
1	9Z	195	ASN	N-CA-CB	-5.85	100.77	110.02
1	af	11	VAL	CA-C-O	-5.85	115.08	121.28
1	ag	118	MET	N-CA-C	5.85	118.44	111.71
1	aq	150	ILE	CB-CA-C	-5.85	103.94	111.20
1	at	215	MET	CG-SD-CE	-5.85	88.03	100.90
1	au	184	TRP	O-C-N	-5.85	115.77	122.09
1	aA	130	TYR	CA-C-O	5.85	126.97	120.82
1	aC	186	THR	CA-C-N	5.85	128.05	120.44
1	aC	186	THR	C-N-CA	5.85	128.05	120.44
1	aV	59	VAL	CA-CB-CG1	-5.85	100.45	110.40
1	aW	125	PRO	N-CA-CB	-5.85	97.80	102.36
1	bf	112	GLN	N-CA-C	5.85	118.13	111.11
1	bf	151	LEU	CA-C-O	5.85	126.62	120.42
1	bf	195	ASN	CB-CG-ND2	5.85	125.18	116.40
1	bg	40	PHE	N-CA-C	5.85	117.74	111.36
1	17	104	ILE	N-CA-C	5.85	116.04	110.42
1	bs	80	TRP	CB-CG-CD2	-5.85	118.61	126.80
1	bA	6	LEU	CA-C-N	5.85	132.72	121.54
1	bA	6	LEU	C-N-CA	5.85	132.72	121.54
1	bA	94	GLY	CA-C-N	5.85	131.80	123.14
1	bA	94	GLY	C-N-CA	5.85	131.80	123.14
1	bD	18	ARG	CA-C-N	5.85	128.40	120.44
1	bD	18	ARG	C-N-CA	5.85	128.40	120.44
1	bD	37	ILE	O-C-N	-5.85	116.67	120.42
1	bP	108	THR	N-CA-C	5.85	120.58	113.38
1	bT	183	ASN	N-CA-C	5.85	117.66	111.28
1	c5	175	GLU	N-CA-CB	-5.85	101.48	110.44
1	cl	151	LEU	N-CA-C	5.85	118.61	111.82
1	1f	8	GLY	N-CA-C	5.85	123.33	114.61
1	cA	194	ALA	N-CA-C	5.85	118.31	110.35
1	cE	128	GLU	CA-C-O	-5.85	114.35	120.55
1	cF	154	ARG	CA-C-O	5.85	127.28	120.49
1	dD	167	ARG	CA-C-O	-5.85	112.22	119.18
1	dJ	4	GLN	O-C-N	-5.85	115.61	122.81
1	dU	108	THR	CA-C-O	5.85	126.41	119.56
1	dY	24	VAL	CA-C-N	5.85	128.71	120.28
1	dY	24	VAL	C-N-CA	5.85	128.71	120.28
1	e7	65	ALA	CA-C-N	5.85	128.05	120.44
1	e7	65	ALA	C-N-CA	5.85	128.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	84	HIS	CB-CG-CD2	5.85	138.81	131.20
1	ey	26	VAL	CA-CB-CG1	5.85	120.35	110.40
1	eL	44	SER	CA-C-O	5.85	126.57	119.78
1	eS	150	ILE	O-C-N	-5.85	115.39	122.06
1	eX	193	ASN	O-C-N	-5.85	115.32	122.34
1	fd	30	LYS	N-CA-CB	-5.85	102.05	110.65
1	fk	65	ALA	O-C-N	5.85	128.82	122.15
1	fK	65	ALA	N-CA-C	5.85	117.66	111.28
1	g1	82	ARG	CA-C-N	5.85	128.12	120.28
1	g1	82	ARG	C-N-CA	5.85	128.12	120.28
1	f	176	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	g	169	TYR	N-CA-C	5.85	117.46	111.14
1	j	19	THR	CA-C-N	5.85	128.12	120.28
1	j	19	THR	C-N-CA	5.85	128.12	120.28
1	v	95	GLN	O-C-N	-5.85	114.83	122.97
1	x	188	THR	O-C-N	-5.85	114.26	122.10
1	F	103	ASP	N-CA-C	5.85	118.41	111.33
1	S	201	ILE	N-CA-CB	5.85	117.40	110.55
1	gm	47	ALA	N-CA-C	5.85	118.94	110.28
1	gr	21	ASN	CA-C-O	5.85	126.96	120.82
1	gs	183	ASN	CA-CB-CG	-5.85	106.75	112.60
1	hb	5	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	hb	167	ARG	N-CA-CB	-5.85	101.48	110.20
1	ht	134	ILE	N-CA-C	5.85	116.63	110.72
1	i2	23	TRP	CA-CB-CG	5.85	124.72	113.60
1	iB	153	ILE	N-CA-C	5.85	118.62	112.83
1	iI	49	PRO	CA-C-N	5.85	129.60	120.82
1	iI	49	PRO	C-N-CA	5.85	129.60	120.82
1	j3	32	PHE	CA-CB-CG	-5.85	107.95	113.80
1	j3	200	THR	N-CA-CB	5.85	118.49	110.01
1	1U	192	GLN	CB-CA-C	-5.85	98.49	109.72
1	ji	201	ILE	CA-C-N	5.85	128.12	120.28
1	ji	201	ILE	C-N-CA	5.85	128.12	120.28
1	jo	143	ARG	N-CA-C	-5.85	105.40	112.54
1	jo	167	ARG	N-CA-C	5.85	117.74	111.36
1	jC	147	PRO	N-CA-C	5.85	124.52	112.47
1	jL	80	TRP	CA-C-N	5.85	128.71	120.28
1	jL	80	TRP	C-N-CA	5.85	128.71	120.28
1	jS	101	GLY	O-C-N	-5.85	116.49	122.17
1	jT	162	ARG	NE-CZ-NH2	-5.85	113.93	119.20
1	jX	84	HIS	CB-CA-C	-5.85	104.38	110.17
1	k6	86	VAL	CA-C-O	5.85	127.39	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kq	120	HIS	N-CA-CB	5.85	118.73	110.36
1	kt	189	LEU	N-CA-C	5.85	118.41	111.33
1	kZ	79	GLU	CA-CB-CG	5.85	125.80	114.10
1	ln	172	LEU	CA-C-N	5.85	128.71	120.28
1	ln	172	LEU	C-N-CA	5.85	128.71	120.28
1	2E	184	TRP	CA-C-N	5.85	128.12	120.28
1	2E	184	TRP	C-N-CA	5.85	128.12	120.28
1	2R	128	GLU	O-C-N	-5.85	115.77	122.09
1	2S	12	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	3Y	200	THR	CA-CB-CG2	5.85	120.45	110.50
1	40	179	GLN	N-CA-C	5.85	117.66	111.28
1	4g	33	SER	N-CA-CB	-5.85	99.95	110.37
1	4v	103	ASP	CA-CB-CG	-5.85	106.75	112.60
1	4A	85	PRO	N-CA-C	5.85	120.41	111.11
1	4B	156	GLY	CA-C-N	5.85	125.39	119.19
1	4B	156	GLY	C-N-CA	5.85	125.39	119.19
1	5d	168	PHE	CA-CB-CG	5.85	119.65	113.80
1	6p	62	HIS	CA-CB-CG	-5.85	107.95	113.80
1	6L	205	LEU	N-CA-CB	-5.85	101.33	110.98
1	7d	202	LEU	CA-C-N	5.85	128.12	120.28
1	7d	202	LEU	C-N-CA	5.85	128.12	120.28
1	7B	170	LYS	CA-C-N	5.85	129.20	120.31
1	7B	170	LYS	C-N-CA	5.85	129.20	120.31
1	7D	178	SER	N-CA-C	5.85	118.49	110.24
1	7M	206	GLY	CA-C-N	5.85	127.15	119.84
1	7M	206	GLY	C-N-CA	5.85	127.15	119.84
1	8a	147	PRO	N-CD-CG	5.85	111.98	103.20
1	8z	218	CYS	CA-C-O	5.85	128.50	119.96
1	9v	194	ALA	CA-C-N	5.85	128.51	120.67
1	9v	194	ALA	C-N-CA	5.85	128.51	120.67
1	9C	149	SER	CA-C-N	5.85	128.78	120.53
1	9C	149	SER	C-N-CA	5.85	128.78	120.53
1	9I	36	VAL	CA-C-N	5.85	123.93	120.24
1	9I	36	VAL	C-N-CA	5.85	123.93	120.24
1	14	156	GLY	O-C-N	-5.85	115.92	121.77
1	bo	89	GLY	O-C-N	-5.85	116.33	122.18
1	bC	211	LEU	N-CA-CB	5.85	119.39	110.14
1	bQ	192	GLN	CA-C-N	5.85	128.12	120.28
1	bQ	192	GLN	C-N-CA	5.85	128.12	120.28
1	cE	177	ALA	N-CA-C	5.85	118.54	110.35
1	cK	167	ARG	NH1-CZ-NH2	-5.85	111.69	119.30
1	1k	13	GLN	CA-C-O	5.85	128.01	121.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1k	140	LYS	N-CA-C	5.85	120.97	111.37
1	e3	54	THR	CA-C-O	5.85	126.75	120.55
1	ea	53	ASN	CA-C-N	5.85	128.05	120.44
1	ea	53	ASN	C-N-CA	5.85	128.05	120.44
1	ei	198	CYS	CA-C-O	-5.85	114.68	120.82
1	ev	200	THR	OG1-CB-CG2	-5.85	97.60	109.30
1	eI	197	ASP	CA-CB-CG	-5.85	106.75	112.60
1	eZ	123	PRO	CB-CA-C	5.85	118.99	111.56
1	1u	197	ASP	CA-CB-CG	5.85	118.45	112.60
1	f7	129	ILE	N-CA-C	5.85	116.04	110.42
1	fc	93	PRO	N-CA-CB	5.85	109.39	103.25
1	fI	23	TRP	N-CA-C	5.85	117.66	111.28
1	f	10	MET	CA-C-O	5.85	127.76	121.44
1	u	143	ARG	CD-NE-CZ	-5.85	116.21	124.40
1	K	64	ALA	N-CA-C	5.85	118.13	111.11
1	gr	11	VAL	O-C-N	-5.85	116.94	123.26
1	gL	91	ILE	N-CA-C	5.85	118.40	108.86
1	gL	164	TYR	CA-C-N	5.85	128.15	120.60
1	gL	164	TYR	C-N-CA	5.85	128.15	120.60
1	gM	95	GLN	O-C-N	-5.85	115.67	122.86
1	gT	124	ILE	O-C-N	-5.85	116.90	121.46
1	gX	165	VAL	N-CA-CB	5.85	117.39	110.55
1	h1	172	LEU	CA-C-O	5.85	126.75	120.55
1	h6	55	MET	CA-C-N	5.85	128.70	120.28
1	h6	55	MET	C-N-CA	5.85	128.70	120.28
1	h9	8	GLY	O-C-N	-5.85	117.17	122.96
1	ha	76	GLU	N-CA-C	5.85	117.33	111.07
1	hb	217	ALA	N-CA-CB	-5.85	101.51	111.69
1	hq	137	GLY	CA-C-N	5.85	128.04	120.44
1	hq	137	GLY	C-N-CA	5.85	128.04	120.44
1	ht	82	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	hw	129	ILE	CA-C-O	5.85	127.05	120.85
1	hI	109	SER	N-CA-C	5.85	118.65	108.76
1	1L	117	TRP	O-C-N	5.85	128.32	122.12
1	io	87	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	iF	196	PRO	N-CA-C	5.85	124.52	112.47
1	iZ	198	CYS	CA-C-O	-5.85	114.67	120.70
1	1U	73	ILE	CA-C-O	5.85	127.03	120.95
1	ji	68	MET	N-CA-C	5.85	117.66	111.28
1	jk	125	PRO	CA-C-N	5.85	128.47	120.46
1	jk	125	PRO	C-N-CA	5.85	128.47	120.46
1	jm	39	MET	CA-C-N	5.85	128.44	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	39	MET	C-N-CA	5.85	128.44	120.54
1	jp	138	LEU	N-CA-C	5.85	117.66	111.28
1	jA	119	THR	CB-CA-C	-5.85	100.32	110.09
1	ko	62	HIS	O-C-N	-5.85	115.30	122.55
1	kp	75	GLU	N-CA-C	5.85	117.66	111.28
1	kA	156	GLY	CA-C-N	5.85	127.15	119.84
1	kA	156	GLY	C-N-CA	5.85	127.15	119.84
1	kD	80	TRP	CA-C-N	5.85	128.12	120.28
1	kD	80	TRP	C-N-CA	5.85	128.12	120.28
1	kG	162	ARG	N-CA-C	5.85	117.66	111.28
1	kP	68	MET	CA-C-N	5.85	128.40	120.44
1	kP	68	MET	C-N-CA	5.85	128.40	120.44
1	kU	187	GLU	CA-C-O	-5.85	112.14	120.51
1	kX	86	VAL	O-C-N	-5.85	116.57	123.00
1	l0	229	ARG	NE-CZ-NH2	5.85	124.47	119.20
1	l4	33	SER	CA-C-O	-5.85	115.10	120.13
1	l4	93	PRO	N-CA-CB	5.85	108.40	103.25
1	l8	191	VAL	O-C-N	-5.85	116.18	121.91
1	le	173	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	lq	137	GLY	CA-C-N	5.85	128.04	120.44
1	lq	137	GLY	C-N-CA	5.85	128.04	120.44
1	lx	42	ALA	N-CA-C	-5.85	104.90	111.28
1	2f	165	VAL	N-CA-C	5.85	116.59	110.62
1	2l	114	GLN	N-CA-C	5.85	117.74	111.36
1	2o	114	GLN	N-CA-C	5.85	120.96	111.37
1	2t	24	VAL	N-CA-CB	5.85	119.35	110.58
1	2v	32	PHE	N-CA-C	-5.85	105.96	112.57
1	2H	89	GLY	CA-C-N	5.85	127.15	119.84
1	2H	89	GLY	C-N-CA	5.85	127.15	119.84
1	2K	132	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	3u	120	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	3F	213	GLU	CB-CG-CD	5.85	122.55	112.60
1	3G	193	ASN	N-CA-CB	-5.85	101.83	110.49
1	3M	167	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	3U	229	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	44	183	ASN	CB-CG-ND2	5.85	125.17	116.40
1	4q	10	MET	CG-SD-CE	-5.85	88.03	100.90
1	4s	34	PRO	N-CA-CB	5.85	109.77	103.33
1	4X	56	LEU	N-CA-C	5.85	117.73	111.36
1	4Y	84	HIS	N-CA-C	5.85	117.93	109.04
1	51	71	GLU	N-CA-CB	5.85	118.49	110.01
1	5b	226	HIS	ND1-CE1-NE2	5.85	114.25	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5g	50	GLN	N-CA-CB	5.85	118.72	110.12
1	5o	88	ALA	N-CA-C	5.85	120.26	113.18
1	5t	184	TRP	CA-C-N	5.85	128.12	120.28
1	5t	184	TRP	C-N-CA	5.85	128.12	120.28
1	5u	154	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	5C	87	HIS	O-C-N	-5.85	116.37	123.10
1	5I	171	THR	CA-C-O	5.85	127.86	121.02
1	5U	138	LEU	CA-C-N	5.85	128.40	120.44
1	5U	138	LEU	C-N-CA	5.85	128.40	120.44
1	60	95	GLN	OE1-CD-NE2	5.85	128.45	122.60
1	67	118	MET	CG-SD-CE	-5.85	88.03	100.90
1	6r	42	ALA	CA-C-N	5.85	128.12	120.28
1	6r	42	ALA	C-N-CA	5.85	128.12	120.28
1	6w	103	ASP	CA-CB-CG	5.85	118.45	112.60
1	6C	183	ASN	CA-C-N	5.85	128.12	120.28
1	6C	183	ASN	C-N-CA	5.85	128.12	120.28
1	6S	198	CYS	CA-C-N	5.85	128.12	120.28
1	6S	198	CYS	C-N-CA	5.85	128.12	120.28
1	7a	197	ASP	N-CA-C	5.85	118.41	111.33
1	7b	23	TRP	CB-CG-CD1	-5.85	118.12	126.90
1	7j	21	ASN	N-CA-C	5.85	117.66	111.28
1	7m	100	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	7o	113	GLU	O-C-N	5.85	128.32	122.12
1	7w	182	LYS	N-CA-CB	5.85	118.72	110.12
1	7S	133	TRP	CA-C-O	-5.85	114.64	120.90
1	82	48	THR	CA-C-N	5.85	125.99	119.32
1	82	48	THR	C-N-CA	5.85	125.99	119.32
1	8x	22	ALA	CA-C-N	5.85	128.44	120.54
1	8x	22	ALA	C-N-CA	5.85	128.44	120.54
1	8E	124	ILE	CB-CA-C	-5.85	100.71	111.36
1	8R	83	LEU	N-CA-C	5.85	117.66	111.28
1	8X	92	GLU	N-CA-C	-5.85	100.56	108.11
1	93	135	ILE	CB-CA-C	5.85	119.46	111.97
1	9i	42	ALA	N-CA-C	5.85	118.61	111.82
1	9l	226	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	9s	4	GLN	N-CA-C	5.85	123.26	110.80
1	9F	153	ILE	O-C-N	-5.85	116.29	122.67
1	ac	210	THR	CA-CB-OG1	5.85	118.38	109.60
1	av	18	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	aw	90	PRO	CA-C-N	5.85	128.34	120.50
1	aw	90	PRO	C-N-CA	5.85	128.34	120.50
1	aN	28	GLU	N-CA-C	5.85	118.54	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aU	42	ALA	N-CA-C	5.85	117.66	111.28
1	aZ	222	GLY	O-C-N	-5.85	115.10	122.70
1	b0	22	ALA	CA-C-N	5.85	128.04	120.44
1	b0	22	ALA	C-N-CA	5.85	128.04	120.44
1	b5	195	ASN	CA-CB-CG	5.85	118.45	112.60
1	bk	210	THR	O-C-N	-5.85	116.18	122.85
1	bm	30	LYS	N-CA-C	5.85	117.66	111.28
1	br	119	THR	CA-CB-OG1	5.85	118.37	109.60
1	bs	12	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	bs	165	VAL	CA-C-N	5.85	128.44	120.54
1	bs	165	VAL	C-N-CA	5.85	128.44	120.54
1	bE	191	VAL	N-CA-CB	5.85	118.06	110.57
1	bL	86	VAL	CB-CA-C	5.85	118.68	111.25
1	1a	213	GLU	CB-CG-CD	-5.85	102.66	112.60
1	bZ	101	GLY	CA-C-N	5.85	130.62	120.68
1	bZ	101	GLY	C-N-CA	5.85	130.62	120.68
1	ch	6	LEU	O-C-N	-5.85	116.37	123.10
1	co	73	ILE	CA-C-O	-5.85	114.97	121.17
1	cr	114	GLN	N-CA-C	5.85	117.33	111.07
1	cs	35	GLU	CB-CG-CD	-5.85	102.66	112.60
1	1f	62	HIS	CA-CB-CG	-5.85	107.95	113.80
1	cP	82	ARG	NE-CZ-NH2	5.85	124.47	119.20
1	d2	140	LYS	N-CA-C	5.85	117.33	111.07
1	de	80	TRP	N-CA-C	5.85	118.16	111.02
1	dr	154	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	dQ	117	TRP	N-CA-C	5.85	117.66	111.28
1	1n	23	TRP	CA-C-N	5.85	128.73	120.42
1	1n	23	TRP	C-N-CA	5.85	128.73	120.42
1	dV	71	GLU	CA-CB-CG	-5.85	102.40	114.10
1	dW	84	HIS	CB-CG-ND1	-5.85	113.93	122.70
1	dX	58	THR	CA-C-O	5.85	126.19	119.35
1	e0	36	VAL	N-CA-C	5.85	116.63	110.72
1	e0	87	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	e8	173	ARG	NE-CZ-NH2	5.85	124.47	119.20
1	eu	82	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	eE	13	GLN	O-C-N	-5.85	117.16	123.42
1	fn	120	HIS	CA-C-O	-5.85	115.18	121.56
1	fA	139	ASN	CA-CB-CG	5.85	118.45	112.60
1	1z	102	SER	CA-C-N	5.85	128.39	120.44
1	1z	102	SER	C-N-CA	5.85	128.39	120.44
1	fQ	35	GLU	CA-C-O	5.85	126.51	119.61
1	g2	68	MET	CA-C-N	5.85	128.59	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	68	MET	C-N-CA	5.85	128.59	120.29
1	g5	221	VAL	CA-C-N	5.85	132.88	121.41
1	g5	221	VAL	C-N-CA	5.85	132.88	121.41
1	g6	78	ALA	N-CA-C	5.85	117.74	111.36
1	n	100	ARG	N-CA-CB	5.85	118.80	110.44
1	q	73	ILE	CA-CB-CG1	5.85	120.34	110.40
1	x	91	ILE	CA-C-N	5.85	129.28	122.85
1	x	91	ILE	C-N-CA	5.85	129.28	122.85
1	x	205	LEU	N-CA-C	5.85	117.73	111.36
1	y	158	LYS	CA-C-O	5.85	126.19	119.35
1	L	208	ALA	CA-C-N	5.85	129.41	121.05
1	L	208	ALA	C-N-CA	5.85	129.41	121.05
1	8	23	TRP	CE2-CD2-CE3	5.85	124.65	118.80
1	gj	183	ASN	N-CA-C	5.85	117.33	111.07
1	gs	138	LEU	CD1-CG-CD2	-5.85	97.94	110.80
1	gv	182	LYS	N-CA-C	5.85	117.65	111.28
1	gw	70	LYS	O-C-N	-5.85	115.92	122.12
1	1F	205	LEU	CA-C-N	5.85	131.05	121.87
1	1F	205	LEU	C-N-CA	5.85	131.05	121.87
1	gU	18	ARG	CA-C-N	5.85	128.39	120.44
1	gU	18	ARG	C-N-CA	5.85	128.39	120.44
1	gX	28	GLU	CB-CA-C	5.85	122.06	110.42
1	h0	52	LEU	N-CA-C	-5.85	104.99	111.36
1	h0	62	HIS	CB-CA-C	-5.85	103.26	111.80
1	h2	84	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	h2	177	ALA	CA-C-N	5.85	130.02	121.31
1	h2	177	ALA	C-N-CA	5.85	130.02	121.31
1	h6	60	GLY	CA-C-N	5.85	125.89	120.34
1	h6	60	GLY	C-N-CA	5.85	125.89	120.34
1	h7	87	HIS	O-C-N	-5.85	115.56	123.10
1	hm	210	THR	CA-C-N	5.85	128.12	120.28
1	hm	210	THR	C-N-CA	5.85	128.12	120.28
1	1J	216	THR	N-CA-C	5.85	117.65	111.28
1	ht	195	ASN	CA-CB-CG	5.85	118.45	112.60
1	ie	120	HIS	O-C-N	-5.85	115.62	122.81
1	1P	180	GLU	CA-C-N	5.85	128.47	120.46
1	1P	180	GLU	C-N-CA	5.85	128.47	120.46
1	iw	70	LYS	O-C-N	-5.85	115.92	122.12
1	ix	111	LEU	CA-C-O	-5.85	114.35	120.55
1	iz	9	GLN	N-CA-C	5.85	117.57	109.15
1	iH	79	GLU	CA-C-N	5.85	128.12	120.28
1	iH	79	GLU	C-N-CA	5.85	128.12	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iI	33	SER	CB-CA-C	-5.85	102.57	109.47
1	iI	50	GLN	CA-C-N	5.85	128.04	120.44
1	iI	50	GLN	C-N-CA	5.85	128.04	120.44
1	j2	144	MET	N-CA-CB	5.85	119.31	110.30
1	jb	154	ARG	N-CA-C	5.85	118.29	109.23
1	je	103	ASP	CA-C-N	5.85	130.21	120.62
1	je	103	ASP	C-N-CA	5.85	130.21	120.62
1	jo	65	ALA	O-C-N	-5.85	115.92	122.12
1	jp	204	ALA	CA-C-O	5.85	126.72	120.70
1	ju	13	GLN	CA-C-N	5.85	129.01	120.71
1	ju	13	GLN	C-N-CA	5.85	129.01	120.71
1	jD	143	ARG	NE-CZ-NH1	5.85	127.35	121.50
1	jF	81	ASP	N-CA-C	5.85	117.73	111.36
1	jO	116	GLY	N-CA-C	5.85	119.72	112.64
1	jP	60	GLY	CA-C-N	5.85	131.89	121.48
1	jP	60	GLY	C-N-CA	5.85	131.89	121.48
1	jT	98	GLU	O-C-N	-5.85	116.09	121.30
1	k3	215	MET	O-C-N	-5.85	115.38	122.22
1	k5	97	ARG	NE-CZ-NH2	5.85	124.46	119.20
1	ky	128	GLU	CA-C-N	5.85	127.93	120.56
1	ky	128	GLU	C-N-CA	5.85	127.93	120.56
1	kS	142	VAL	N-CA-CB	5.85	117.39	110.55
1	lg	7	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	lg	63	GLN	N-CA-C	5.85	117.73	111.36
1	27	134	ILE	CA-C-N	5.85	127.93	120.56
1	27	134	ILE	C-N-CA	5.85	127.93	120.56
1	lj	9	GLN	CA-C-N	5.85	129.58	120.75
1	lj	9	GLN	C-N-CA	5.85	129.58	120.75
1	lz	193	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	29	141	ILE	O-C-N	-5.85	116.20	121.87
1	lD	51	ASP	N-CA-C	5.85	118.13	111.11
1	2g	198	CYS	CB-CA-C	-5.85	101.08	110.79
1	2j	179	GLN	CA-C-N	5.85	128.04	120.44
1	2j	179	GLN	C-N-CA	5.85	128.04	120.44
1	2D	213	GLU	O-C-N	-5.85	115.48	122.15
1	2F	137	GLY	N-CA-C	5.85	119.56	112.49
1	2O	14	ALA	N-CA-C	5.85	118.09	110.43
1	30	110	THR	N-CA-C	5.85	118.75	110.50
1	3c	87	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	3s	32	PHE	CB-CA-C	-5.85	102.06	111.18
1	3T	183	ASN	OD1-CG-ND2	5.85	128.45	122.60
1	3W	163	ASP	CA-C-N	5.85	128.04	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3W	163	ASP	C-N-CA	5.85	128.04	120.44
1	45	202	LEU	CA-C-N	5.85	128.04	120.44
1	45	202	LEU	C-N-CA	5.85	128.04	120.44
1	4O	171	THR	N-CA-CB	5.85	118.72	110.12
1	56	191	VAL	CA-CB-CG1	5.85	120.34	110.40
1	5o	42	ALA	CA-C-N	5.85	128.39	120.38
1	5o	42	ALA	C-N-CA	5.85	128.39	120.38
1	5u	40	PHE	CA-C-O	-5.85	114.22	120.42
1	5u	138	LEU	N-CA-C	5.85	117.33	111.07
1	5P	48	THR	N-CA-C	5.85	118.61	110.07
1	5P	164	TYR	N-CA-C	5.85	117.66	111.28
1	5U	154	ARG	NE-CZ-NH2	-5.85	113.94	119.20
1	5W	14	ALA	CA-C-O	5.85	127.75	121.55
1	6h	23	TRP	O-C-N	-5.85	116.05	122.07
1	6l	36	VAL	CA-C-N	5.85	125.01	120.33
1	6l	36	VAL	C-N-CA	5.85	125.01	120.33
1	6l	123	PRO	CB-CA-C	5.85	121.21	111.56
1	6l	156	GLY	O-C-N	-5.85	117.16	122.42
1	6O	143	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	6T	212	GLU	N-CA-C	5.85	117.65	111.28
1	75	210	THR	N-CA-CB	5.85	118.62	110.26
1	7n	167	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	7p	114	GLN	N-CA-C	5.85	117.33	111.07
1	7T	133	TRP	O-C-N	-5.85	115.92	122.12
1	85	115	ILE	CA-C-N	5.85	126.47	119.98
1	85	115	ILE	C-N-CA	5.85	126.47	119.98
1	87	171	THR	CA-C-O	-5.85	114.35	120.55
1	8n	117	TRP	N-CA-CB	5.85	118.72	110.12
1	9d	83	LEU	N-CA-C	5.85	117.65	111.28
1	9m	121	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	9W	98	GLU	N-CA-C	5.85	117.97	109.84
1	9W	115	ILE	CA-C-O	-5.85	114.97	121.05
1	9Y	115	ILE	CA-C-N	5.85	126.43	119.94
1	9Y	115	ILE	C-N-CA	5.85	126.43	119.94
1	a5	84	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	a6	22	ALA	CB-CA-C	-5.85	101.70	110.88
1	ad	144	MET	CG-SD-CE	-5.85	88.03	100.90
1	aw	36	VAL	N-CA-C	5.85	116.58	110.62
1	aW	146	SER	CA-C-O	-5.85	113.78	119.51
1	b4	21	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	bl	127	GLY	N-CA-C	-5.85	105.58	113.24
1	c5	84	HIS	CA-C-N	-5.85	113.52	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c5	84	HIS	C-N-CA	-5.85	113.52	120.13
1	c8	178	SER	N-CA-C	5.85	117.84	110.24
1	cs	215	MET	CA-C-O	5.85	126.57	119.38
1	cu	226	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	1g	84	HIS	CG-CD2-NE2	5.85	113.05	107.20
1	cM	139	ASN	OD1-CG-ND2	-5.85	116.75	122.60
1	cP	197	ASP	CB-CG-OD1	5.85	131.85	118.40
1	cQ	29	GLU	N-CA-C	5.85	117.66	111.28
1	cR	95	GLN	OE1-CD-NE2	-5.85	116.75	122.60
1	cS	161	PHE	CA-CB-CG	-5.85	107.95	113.80
1	d5	13	GLN	N-CA-C	-5.85	101.08	110.14
1	d6	16	SER	N-CA-C	5.85	119.81	109.58
1	da	13	GLN	O-C-N	-5.85	115.59	123.19
1	dk	45	GLU	N-CA-CB	5.85	118.54	109.48
1	dn	156	GLY	CA-C-N	5.85	125.22	118.85
1	dn	156	GLY	C-N-CA	5.85	125.22	118.85
1	dt	39	MET	CA-C-O	5.85	126.96	120.82
1	dz	71	GLU	CA-C-O	5.85	126.95	120.63
1	dM	143	ARG	O-C-N	-5.85	115.08	122.27
1	dZ	3	VAL	CB-CA-C	5.85	118.02	111.59
1	e9	79	GLU	N-CA-C	-5.85	105.04	111.82
1	eb	223	GLY	CA-C-O	-5.85	113.16	121.52
1	eg	210	THR	CA-C-O	5.85	128.71	121.81
1	em	81	ASP	CB-CA-C	5.85	120.06	110.88
1	eC	80	TRP	CZ3-CH2-CZ2	-5.85	113.90	121.50
1	eN	22	ALA	N-CA-C	5.85	117.65	111.28
1	eW	154	ARG	CA-C-O	5.85	127.62	120.60
1	eZ	121	ASN	CA-CB-CG	-5.85	106.75	112.60
1	f7	153	ILE	CA-C-N	5.85	129.58	120.75
1	f7	153	ILE	C-N-CA	5.85	129.58	120.75
1	ff	51	ASP	N-CA-CB	5.85	118.72	110.12
1	ff	188	THR	O-C-N	-5.85	114.81	122.59
1	fn	171	THR	CA-C-N	5.85	128.12	120.28
1	fn	171	THR	C-N-CA	5.85	128.12	120.28
1	1x	63	GLN	N-CA-C	5.85	119.67	112.54
1	fH	215	MET	N-CA-C	5.85	117.65	111.28
1	fQ	68	MET	CA-C-N	5.85	128.92	120.79
1	fQ	68	MET	C-N-CA	5.85	128.92	120.79
1	g1	44	SER	N-CA-C	5.85	117.73	111.36
1	a	118	MET	N-CA-C	5.85	118.60	111.82
1	e	220	GLY	CA-C-O	5.85	126.72	120.40
1	j	206	GLY	CA-C-N	5.85	125.71	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	206	GLY	C-N-CA	5.85	125.71	119.28
1	r	136	LEU	CA-C-O	5.85	126.75	120.55
1	H	53	ASN	CA-CB-CG	-5.85	106.75	112.60
1	W	55	MET	O-C-N	-5.85	116.05	122.07
1	gd	105	ALA	O-C-N	-5.85	114.30	122.37
1	gf	161	PHE	CA-CB-CG	5.85	119.65	113.80
1	gl	14	ALA	N-CA-C	5.85	118.30	110.35
1	gn	194	ALA	CA-C-O	5.85	128.65	121.99
1	gW	153	ILE	N-CA-C	5.85	117.26	109.37
1	hd	161	PHE	CB-CA-C	5.85	122.05	110.42
1	hp	191	VAL	O-C-N	-5.85	115.34	122.12
1	hM	201	ILE	CB-CA-C	-5.85	104.15	112.22
1	i9	225	GLY	CA-C-N	5.85	132.62	122.56
1	i9	225	GLY	C-N-CA	5.85	132.62	122.56
1	is	165	VAL	CA-C-N	5.85	128.43	120.54
1	is	165	VAL	C-N-CA	5.85	128.43	120.54
1	1Q	82	ARG	O-C-N	-5.85	115.92	122.12
1	iB	132	ARG	N-CA-C	5.85	117.65	111.28
1	1V	133	TRP	O-C-N	-5.85	115.78	122.09
1	jX	38	PRO	CB-CA-C	-5.85	103.78	112.55
1	jZ	115	ILE	CA-C-N	5.85	126.60	119.99
1	jZ	115	ILE	C-N-CA	5.85	126.60	119.99
1	k6	123	PRO	CA-C-O	-5.85	114.88	121.43
1	kg	152	ASP	CA-CB-CG	5.85	118.45	112.60
1	22	181	VAL	N-CA-C	5.85	116.58	110.62
1	kK	47	ALA	N-CA-C	5.85	118.73	109.96
1	kN	126	VAL	CA-C-N	5.85	126.43	120.00
1	kN	126	VAL	C-N-CA	5.85	126.43	120.00
1	kX	127	GLY	CA-C-N	5.85	128.59	120.29
1	kX	127	GLY	C-N-CA	5.85	128.59	120.29
1	li	206	GLY	CA-C-O	-5.85	113.16	121.52
1	li	229	ARG	NE-CZ-NH1	-5.85	115.65	121.50
1	lR	214	MET	CG-SD-CE	-5.85	88.04	100.90
1	2P	167	ARG	CA-C-O	5.85	126.75	120.55
1	2S	139	ASN	CA-CB-CG	5.85	118.45	112.60
1	2V	115	ILE	CA-C-O	5.85	127.03	120.95
1	30	221	VAL	O-C-N	-5.85	117.50	122.65
1	31	89	GLY	N-CA-C	5.85	124.27	112.34
1	3M	226	HIS	ND1-CE1-NE2	5.85	114.25	108.40
1	4r	115	ILE	CA-C-N	5.85	126.43	119.94
1	4r	115	ILE	C-N-CA	5.85	126.43	119.94
1	4H	205	LEU	CA-C-N	5.85	131.05	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4H	205	LEU	C-N-CA	5.85	131.05	121.87
1	4K	126	VAL	O-C-N	-5.85	116.16	121.89
1	5p	82	ARG	NE-CZ-NH1	-5.85	115.65	121.50
1	5z	173	ARG	CA-C-N	5.85	128.11	120.28
1	5z	173	ARG	C-N-CA	5.85	128.11	120.28
1	5G	16	SER	CA-C-N	5.85	125.54	119.64
1	5G	16	SER	C-N-CA	5.85	125.54	119.64
1	5O	121	ASN	CA-CB-CG	-5.85	106.75	112.60
1	6f	113	GLU	N-CA-C	5.85	117.73	111.36
1	6K	169	TYR	N-CA-CB	5.85	119.34	110.28
1	6R	213	GLU	CA-C-N	5.85	128.70	120.28
1	6R	213	GLU	C-N-CA	5.85	128.70	120.28
1	72	79	GLU	CB-CG-CD	-5.85	102.66	112.60
1	7m	161	PHE	CA-C-N	5.85	128.04	120.44
1	7m	161	PHE	C-N-CA	5.85	128.04	120.44
1	7z	91	ILE	CA-C-N	5.85	127.02	120.06
1	7z	91	ILE	C-N-CA	5.85	127.02	120.06
1	7P	140	LYS	O-C-N	-5.85	115.92	122.12
1	7U	191	VAL	N-CA-C	5.85	116.58	110.62
1	83	125	PRO	CA-C-N	5.85	128.47	120.46
1	83	125	PRO	C-N-CA	5.85	128.47	120.46
1	87	197	ASP	CA-CB-CG	-5.85	106.75	112.60
1	9v	13	GLN	CA-C-O	5.85	127.01	120.70
1	9y	87	HIS	CA-C-N	5.85	132.71	121.54
1	9y	87	HIS	C-N-CA	5.85	132.71	121.54
1	9H	167	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	aO	51	ASP	CA-C-N	5.85	128.04	120.44
1	aO	51	ASP	C-N-CA	5.85	128.04	120.44
1	aP	180	GLU	CA-C-N	5.85	128.47	120.46
1	aP	180	GLU	C-N-CA	5.85	128.47	120.46
1	b6	181	VAL	CA-C-O	5.85	127.03	120.95
1	bd	194	ALA	CA-C-N	5.85	128.60	120.65
1	bd	194	ALA	C-N-CA	5.85	128.60	120.65
1	bg	165	VAL	N-CA-CB	5.85	117.39	110.55
1	18	73	ILE	O-C-N	-5.85	116.16	121.89
1	cq	87	HIS	CA-CB-CG	-5.85	107.95	113.80
1	cu	139	ASN	N-CA-C	5.85	118.43	111.71
1	cE	109	SER	CA-C-N	5.85	130.74	122.09
1	cE	109	SER	C-N-CA	5.85	130.74	122.09
1	dJ	64	ALA	N-CA-C	5.85	117.65	111.28
1	e8	43	LEU	CB-CA-C	-5.85	100.91	110.85
1	ef	37	ILE	CA-C-O	5.85	123.15	118.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ei	131	LYS	N-CA-C	5.85	118.40	111.33
1	en	40	PHE	N-CA-CB	-5.85	101.53	110.12
1	et	87	HIS	CE1-NE2-CD2	-5.85	103.15	109.00
1	eE	129	ILE	N-CA-CB	5.85	117.39	110.55
1	eT	37	ILE	N-CA-C	5.85	121.51	108.88
1	eU	173	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	fv	180	GLU	N-CA-C	5.85	120.15	113.19
1	g	185	MET	N-CA-C	5.85	118.60	111.82
1	u	159	GLU	CA-C-O	-5.85	114.99	119.32
1	3	121	ASN	CB-CA-C	5.85	117.31	109.42
1	N	48	THR	CB-CA-C	5.85	120.82	110.47
1	6	130	TYR	N-CA-C	-5.85	104.99	111.36
1	gc	226	HIS	O-C-N	5.84	130.00	122.81
1	gx	189	LEU	CB-CA-C	-5.84	101.09	110.79
1	gF	131	LYS	N-CA-C	5.84	118.40	111.33
1	gJ	158	LYS	CA-C-N	5.84	128.50	120.67
1	gJ	158	LYS	C-N-CA	5.84	128.50	120.67
1	h4	88	ALA	CA-C-N	5.84	131.04	121.87
1	h4	88	ALA	C-N-CA	5.84	131.04	121.87
1	h5	213	GLU	CA-C-O	5.84	126.69	119.97
1	1H	150	ILE	O-C-N	-5.84	114.39	122.05
1	h6	11	VAL	N-CA-C	5.84	121.50	109.34
1	he	228	ALA	N-CA-CB	-5.84	102.00	110.47
1	hL	92	GLU	CA-C-N	5.84	127.15	119.84
1	hL	92	GLU	C-N-CA	5.84	127.15	119.84
1	hM	109	SER	O-C-N	-5.84	116.43	123.03
1	hW	26	VAL	CB-CA-C	-5.84	104.16	112.22
1	1N	15	ILE	CA-CB-CG1	5.84	120.33	110.40
1	1O	13	GLN	O-C-N	-5.84	116.26	123.33
1	il	63	GLN	CG-CD-NE2	-5.84	107.63	116.40
1	iH	167	ARG	CB-CA-C	-5.84	101.67	110.90
1	iL	50	GLN	N-CA-C	5.84	117.32	111.07
1	jh	180	GLU	CA-C-N	5.84	128.04	120.56
1	jh	180	GLU	C-N-CA	5.84	128.04	120.56
1	jt	179	GLN	N-CA-C	5.84	117.73	111.36
1	jv	132	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	jN	47	ALA	CA-C-N	5.84	131.04	121.57
1	jN	47	ALA	C-N-CA	5.84	131.04	121.57
1	jP	6	LEU	O-C-N	-5.84	116.59	123.25
1	1Y	201	ILE	CA-C-N	5.84	128.39	120.38
1	1Y	201	ILE	C-N-CA	5.84	128.39	120.38
1	jW	104	ILE	O-C-N	-5.84	115.26	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k2	126	VAL	N-CA-C	5.84	118.36	111.05
1	20	143	ARG	N-CA-C	5.84	118.60	111.82
1	ke	124	ILE	CA-C-O	-5.84	112.12	119.95
1	kh	215	MET	CB-CA-C	-5.84	101.09	110.79
1	km	15	ILE	N-CA-C	5.84	116.96	109.30
1	km	67	GLN	CA-C-O	-5.84	114.36	120.55
1	kw	14	ALA	CA-C-O	-5.84	114.76	121.19
1	24	158	LYS	CA-C-O	5.84	125.46	119.97
1	kQ	135	ILE	N-CA-CB	5.84	118.49	110.54
1	ll	186	THR	CB-CA-C	-5.84	100.74	110.68
1	lG	89	GLY	CA-C-N	5.84	126.14	119.83
1	lG	89	GLY	C-N-CA	5.84	126.14	119.83
1	2c	107	THR	O-C-N	5.84	128.11	122.03
1	2f	155	GLN	N-CA-C	5.84	118.74	110.50
1	2k	29	GLU	CA-C-O	5.84	126.72	120.70
1	2M	176	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	2R	195	ASN	OD1-CG-ND2	-5.84	116.75	122.60
1	2Z	21	ASN	OD1-CG-ND2	-5.84	116.75	122.60
1	30	48	THR	N-CA-CB	5.84	117.85	109.78
1	33	169	TYR	CA-C-N	5.84	128.11	120.28
1	33	169	TYR	C-N-CA	5.84	128.11	120.28
1	3e	120	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	3j	163	ASP	N-CA-CB	-5.84	101.53	110.01
1	3x	150	ILE	CA-C-N	5.84	128.11	120.28
1	3x	150	ILE	C-N-CA	5.84	128.11	120.28
1	48	202	LEU	CA-C-N	5.84	129.19	120.31
1	48	202	LEU	C-N-CA	5.84	129.19	120.31
1	4a	127	GLY	CA-C-N	5.84	128.04	120.44
1	4a	127	GLY	C-N-CA	5.84	128.04	120.44
1	4g	93	PRO	CA-C-N	5.84	132.87	121.41
1	4g	93	PRO	C-N-CA	5.84	132.87	121.41
1	4m	138	LEU	CA-C-N	5.84	128.04	120.44
1	4m	138	LEU	C-N-CA	5.84	128.04	120.44
1	4F	200	THR	CA-C-N	5.84	128.72	120.42
1	4F	200	THR	C-N-CA	5.84	128.72	120.42
1	4G	84	HIS	CA-C-O	-5.84	113.47	119.49
1	50	171	THR	CA-C-N	5.84	128.11	120.28
1	50	171	THR	C-N-CA	5.84	128.11	120.28
1	5b	229	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	5m	50	GLN	N-CA-C	5.84	118.12	111.11
1	5s	102	SER	CA-C-N	5.84	128.43	120.54
1	5s	102	SER	C-N-CA	5.84	128.43	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5t	19	THR	CA-C-N	5.84	128.11	120.28
1	5t	19	THR	C-N-CA	5.84	128.11	120.28
1	5t	60	GLY	CA-C-N	5.84	129.31	121.01
1	5t	60	GLY	C-N-CA	5.84	129.31	121.01
1	5B	31	ALA	CB-CA-C	5.84	120.08	109.62
1	6g	9	GLN	OE1-CD-NE2	-5.84	116.75	122.60
1	6k	205	LEU	CA-C-N	5.84	131.05	121.87
1	6k	205	LEU	C-N-CA	5.84	131.05	121.87
1	6n	126	VAL	N-CA-C	5.84	118.36	111.05
1	6D	37	ILE	N-CA-CB	5.84	114.18	110.50
1	6D	98	GLU	CB-CG-CD	5.84	122.53	112.60
1	6G	8	GLY	CA-C-N	5.84	130.57	120.58
1	6G	8	GLY	C-N-CA	5.84	130.57	120.58
1	6H	121	ASN	CA-C-O	-5.84	115.03	119.59
1	6L	180	GLU	O-C-N	-5.84	114.40	122.46
1	6V	185	MET	O-C-N	-5.84	116.01	122.09
1	6X	66	MET	N-CA-C	5.84	117.65	111.28
1	76	7	GLN	O-C-N	-5.84	116.23	123.36
1	7i	183	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	7n	128	GLU	N-CA-C	5.84	117.65	111.28
1	7n	144	MET	N-CA-C	5.84	117.45	111.14
1	7q	23	TRP	N-CA-C	5.84	117.33	111.07
1	7q	120	HIS	CB-CG-CD2	5.84	138.80	131.20
1	7v	144	MET	N-CA-C	5.84	117.65	111.28
1	7N	210	THR	N-CA-CB	5.84	119.17	110.29
1	7Z	119	THR	OG1-CB-CG2	-5.84	97.61	109.30
1	82	64	ALA	N-CA-CB	-5.84	101.51	110.16
1	8d	113	GLU	N-CA-CB	5.84	118.55	110.07
1	8t	117	TRP	CA-C-N	5.84	131.94	121.66
1	8t	117	TRP	C-N-CA	5.84	131.94	121.66
1	8t	180	GLU	CA-C-N	5.84	128.47	120.46
1	8t	180	GLU	C-N-CA	5.84	128.47	120.46
1	8C	59	VAL	O-C-N	-5.84	115.81	121.83
1	8R	226	HIS	CA-CB-CG	-5.84	107.95	113.80
1	8Z	56	LEU	CA-C-O	5.84	126.62	120.42
1	9M	53	ASN	CA-C-O	-5.84	114.35	120.55
1	9U	228	ALA	CA-C-O	-5.84	113.83	120.32
1	af	124	ILE	O-C-N	-5.84	115.54	120.92
1	ak	56	LEU	O-C-N	-5.84	114.39	122.46
1	ar	98	GLU	CA-C-N	5.84	125.61	119.76
1	ar	98	GLU	C-N-CA	5.84	125.61	119.76
1	ar	184	TRP	N-CA-C	5.84	117.65	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	az	178	SER	N-CA-C	5.84	118.48	110.24
1	aN	226	HIS	O-C-N	-5.84	116.67	123.27
1	aU	83	LEU	N-CA-C	5.84	117.65	111.28
1	aV	166	ASP	CA-C-N	5.84	128.04	120.44
1	aV	166	ASP	C-N-CA	5.84	128.04	120.44
1	b1	154	ARG	NH1-CZ-NH2	-5.84	111.70	119.30
1	b2	130	TYR	CB-CG-CD2	-5.84	112.03	120.80
1	b3	46	GLY	CA-C-O	5.84	127.04	120.03
1	b3	50	GLN	CA-C-N	5.84	128.11	120.28
1	b3	50	GLN	C-N-CA	5.84	128.11	120.28
1	b4	107	THR	N-CA-C	5.84	118.40	111.33
1	b7	166	ASP	CA-CB-CG	5.84	118.44	112.60
1	bd	70	LYS	N-CA-C	5.84	117.65	111.28
1	be	200	THR	CA-C-O	5.84	126.70	120.10
1	bo	77	ALA	N-CA-C	5.84	117.32	111.07
1	18	27	VAL	CA-C-O	-5.84	114.66	120.85
1	by	50	GLN	N-CA-C	5.84	117.65	111.28
1	bE	130	TYR	CB-CG-CD2	-5.84	112.03	120.80
1	c8	195	ASN	N-CA-CB	5.84	120.19	109.73
1	cg	6	LEU	CA-C-N	5.84	129.17	120.87
1	cg	6	LEU	C-N-CA	5.84	129.17	120.87
1	cm	95	GLN	O-C-N	-5.84	116.57	123.41
1	cG	70	LYS	N-CA-C	5.84	117.65	111.28
1	cI	74	ASN	CA-CB-CG	-5.84	106.75	112.60
1	cU	22	ALA	CA-C-O	5.84	126.61	120.42
1	cW	162	ARG	N-CA-C	5.84	120.95	111.37
1	da	5	ASN	OD1-CG-ND2	-5.84	116.75	122.60
1	dn	229	ARG	N-CA-C	-5.84	104.84	113.61
1	dz	37	ILE	CA-C-N	5.84	125.39	119.19
1	dz	37	ILE	C-N-CA	5.84	125.39	119.19
1	dE	85	PRO	O-C-N	-5.84	115.47	122.89
1	dQ	109	SER	O-C-N	-5.84	116.56	123.22
1	dR	48	THR	CA-C-N	5.84	127.14	119.84
1	dR	48	THR	C-N-CA	5.84	127.14	119.84
1	ea	219	GLN	N-CA-C	5.84	117.65	111.28
1	eC	74	ASN	CA-CB-CG	-5.84	106.76	112.60
1	1s	86	VAL	N-CA-CB	-5.84	104.34	111.00
1	eM	84	HIS	CA-CB-CG	5.84	119.64	113.80
1	eR	215	MET	CG-SD-CE	-5.84	88.04	100.90
1	f6	89	GLY	O-C-N	5.84	127.61	121.77
1	fb	166	ASP	CA-C-N	5.84	128.59	120.29
1	fb	166	ASP	C-N-CA	5.84	128.59	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1y	71	GLU	O-C-N	-5.84	115.38	122.22
1	fF	100	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	fO	150	ILE	N-CA-C	5.84	116.58	110.62
1	fS	179	GLN	CA-C-N	5.84	128.11	120.28
1	fS	179	GLN	C-N-CA	5.84	128.11	120.28
1	0	202	LEU	N-CA-C	5.84	119.59	112.23
1	c	128	GLU	CA-C-N	5.84	127.92	120.56
1	c	128	GLU	C-N-CA	5.84	127.92	120.56
1	k	153	ILE	N-CA-CB	5.84	117.50	110.31
1	E	197	ASP	N-CA-C	5.84	117.65	111.28
1	U	16	SER	CA-C-N	5.84	125.54	119.05
1	U	16	SER	C-N-CA	5.84	125.54	119.05
1	gb	80	TRP	CB-CG-CD1	5.84	135.66	126.90
1	1C	165	VAL	CA-C-O	5.84	127.04	120.85
1	gi	75	GLU	N-CA-CB	5.84	118.81	110.16
1	he	166	ASP	N-CA-CB	-5.84	101.54	110.01
1	hv	54	THR	CA-C-N	5.84	128.04	120.44
1	hv	54	THR	C-N-CA	5.84	128.04	120.44
1	hE	195	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	hH	18	ARG	O-C-N	-5.84	115.93	122.12
1	hS	149	SER	CA-C-N	5.84	130.34	120.64
1	hS	149	SER	C-N-CA	5.84	130.34	120.64
1	hW	120	HIS	N-CA-C	-5.84	102.99	110.53
1	1N	119	THR	O-C-N	-5.84	114.45	122.46
1	i9	153	ILE	N-CA-CB	-5.84	104.16	110.53
1	1P	188	THR	N-CA-C	5.84	120.79	113.43
1	iw	43	LEU	CA-C-N	5.84	132.18	122.54
1	iw	43	LEU	C-N-CA	5.84	132.18	122.54
1	1S	124	ILE	CA-C-N	5.84	127.14	119.84
1	1S	124	ILE	C-N-CA	5.84	127.14	119.84
1	j1	211	LEU	CA-C-N	5.84	128.03	120.44
1	j1	211	LEU	C-N-CA	5.84	128.03	120.44
1	j3	161	PHE	CA-C-N	5.84	128.11	120.28
1	j3	161	PHE	C-N-CA	5.84	128.11	120.28
1	jB	195	ASN	CB-CA-C	5.84	119.04	109.46
1	k3	112	GLN	CB-CA-C	5.84	120.78	110.85
1	ke	46	GLY	CA-C-O	5.84	127.18	119.58
1	kf	134	ILE	CB-CA-C	5.84	120.03	112.14
1	ki	174	ALA	N-CA-C	5.84	118.43	111.71
1	kl	72	THR	CA-C-O	5.84	126.74	120.55
1	kz	186	THR	N-CA-CB	5.84	119.34	110.28
1	23	155	GLN	CA-C-O	-5.84	115.09	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kZ	90	PRO	CA-C-O	-5.84	114.76	121.36
1	lh	179	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	lp	40	PHE	N-CA-C	5.84	123.25	110.80
1	lz	142	VAL	CA-C-O	-5.84	114.87	120.95
1	2Q	192	GLN	N-CA-C	5.84	118.40	111.33
1	3g	227	LYS	CA-C-O	-5.84	114.76	121.19
1	3v	76	GLU	N-CA-C	5.84	117.73	111.36
1	3J	136	LEU	CA-C-O	-5.84	114.23	120.42
1	3M	226	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	3O	157	PRO	N-CA-CB	5.84	109.76	103.33
1	4f	230	VAL	O-C-N	-5.84	116.57	123.00
1	5m	8	GLY	N-CA-C	-5.84	102.07	111.59
1	5s	215	MET	CA-C-N	5.84	130.48	121.19
1	5s	215	MET	C-N-CA	5.84	130.48	121.19
1	5u	27	VAL	CA-C-N	5.84	128.39	120.38
1	5u	27	VAL	C-N-CA	5.84	128.39	120.38
1	5G	147	PRO	CA-C-O	-5.84	114.98	121.23
1	67	59	VAL	CA-CB-CG1	5.84	120.33	110.40
1	6j	72	THR	O-C-N	-5.84	115.93	122.12
1	6N	149	SER	N-CA-C	-5.84	100.19	109.07
1	7E	188	THR	OG1-CB-CG2	-5.84	97.61	109.30
1	8c	73	ILE	CA-C-N	5.84	128.11	120.28
1	8c	73	ILE	C-N-CA	5.84	128.11	120.28
1	8g	159	GLU	CA-C-O	-5.84	115.49	119.29
1	8i	185	MET	CA-C-N	5.84	128.04	120.44
1	8i	185	MET	C-N-CA	5.84	128.04	120.44
1	8i	195	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	93	105	ALA	N-CA-CB	-5.84	100.88	110.40
1	98	182	LYS	O-C-N	5.84	128.81	122.15
1	9q	153	ILE	O-C-N	-5.84	115.27	122.57
1	9K	166	ASP	CA-CB-CG	5.84	118.44	112.60
1	9S	100	ARG	CA-C-N	5.84	126.47	119.98
1	9S	100	ARG	C-N-CA	5.84	126.47	119.98
1	Z	34	PRO	CA-C-N	5.84	128.38	120.38
1	Z	34	PRO	C-N-CA	5.84	128.38	120.38
1	aj	161	PHE	CA-CB-CG	-5.84	107.96	113.80
1	ay	154	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	b8	134	ILE	CA-C-O	5.84	127.04	120.85
1	bj	101	GLY	O-C-N	5.84	127.80	122.19
1	bF	199	LYS	CA-C-N	5.84	128.69	120.28
1	bF	199	LYS	C-N-CA	5.84	128.69	120.28
1	cc	158	LYS	N-CA-C	-5.84	106.07	113.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	176	GLN	N-CA-C	-5.84	105.92	113.16
1	cx	142	VAL	CA-CB-CG1	-5.84	100.47	110.40
1	dr	63	GLN	CA-C-O	5.84	126.72	120.24
1	ek	215	MET	N-CA-C	5.84	117.65	111.28
1	eA	138	LEU	CA-C-N	5.84	128.38	120.38
1	eA	138	LEU	C-N-CA	5.84	128.38	120.38
1	eG	213	GLU	N-CA-C	5.84	117.65	111.28
1	f8	100	ARG	CA-C-O	-5.84	115.28	121.88
1	fc	104	ILE	CA-C-O	-5.84	114.87	120.95
1	fj	214	MET	N-CA-C	5.84	117.65	111.28
1	fw	173	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	fI	52	LEU	N-CA-CB	5.84	118.48	110.01
1	fS	226	HIS	O-C-N	-5.84	115.08	122.27
1	fT	3	VAL	CA-C-O	-5.84	115.53	121.67
1	fT	132	ARG	N-CA-CB	5.84	118.71	110.12
1	fT	135	ILE	N-CA-C	5.84	116.58	110.62
1	x	176	GLN	CA-C-N	5.84	129.41	120.82
1	x	176	GLN	C-N-CA	5.84	129.41	120.82
1	gj	73	ILE	CA-C-N	5.84	128.11	120.28
1	gj	73	ILE	C-N-CA	5.84	128.11	120.28
1	1F	5	ASN	CA-C-N	5.84	132.70	121.54
1	1F	5	ASN	C-N-CA	5.84	132.70	121.54
1	1F	29	GLU	N-CA-C	5.84	117.32	111.07
1	gN	7	GLN	CA-C-O	5.84	126.50	119.43
1	gW	87	HIS	CB-CG-CD2	-5.84	123.61	131.20
1	h1	137	GLY	CA-C-O	5.84	126.77	120.75
1	h9	142	VAL	CA-C-O	-5.84	114.66	120.85
1	hu	85	PRO	O-C-N	-5.84	114.75	122.64
1	hw	162	ARG	CA-C-O	-5.84	114.36	120.55
1	hG	154	ARG	CA-C-O	-5.84	113.59	120.60
1	hR	143	ARG	CA-C-N	5.84	128.03	120.44
1	hR	143	ARG	C-N-CA	5.84	128.03	120.44
1	hU	168	PHE	CA-CB-CG	-5.84	107.96	113.80
1	i2	22	ALA	N-CA-C	5.84	118.12	111.11
1	1N	186	THR	O-C-N	-5.84	114.46	122.46
1	iv	229	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	iy	14	ALA	CA-C-N	5.84	128.33	120.50
1	iy	14	ALA	C-N-CA	5.84	128.33	120.50
1	iz	159	GLU	CA-C-N	5.84	126.14	119.83
1	iz	159	GLU	C-N-CA	5.84	126.14	119.83
1	iA	18	ARG	CB-CG-CD	5.84	124.73	111.30
1	iF	98	GLU	CA-C-O	-5.84	114.56	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iU	221	VAL	CA-C-O	-5.84	115.85	121.63
1	iV	9	GLN	CA-C-N	5.84	129.14	120.90
1	iV	9	GLN	C-N-CA	5.84	129.14	120.90
1	je	141	ILE	CA-C-O	5.84	127.03	120.95
1	jr	62	HIS	ND1-CG-CD2	5.84	111.94	106.10
1	jE	15	ILE	N-CA-C	5.84	116.60	109.30
1	jJ	62	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	jM	94	GLY	N-CA-C	5.84	121.90	114.66
1	jM	132	ARG	CA-C-O	5.84	126.61	120.42
1	ka	70	LYS	CA-C-O	5.84	126.95	120.82
1	ka	168	PHE	N-CA-C	-5.84	104.82	111.07
1	ko	179	GLN	CA-C-N	5.84	128.58	120.29
1	ko	179	GLN	C-N-CA	5.84	128.58	120.29
1	22	124	ILE	CA-C-O	-5.84	113.52	119.89
1	ku	124	ILE	O-C-N	-5.84	115.55	120.92
1	kA	66	MET	N-CA-C	5.84	118.43	111.71
1	kV	131	LYS	CA-C-N	5.84	128.43	120.54
1	kV	131	LYS	C-N-CA	5.84	128.43	120.54
1	lq	165	VAL	CB-CA-C	-5.84	104.25	112.14
1	lr	33	SER	N-CA-C	-5.84	101.47	108.25
1	ls	37	ILE	O-C-N	5.84	124.22	120.07
1	lt	221	VAL	N-CA-C	5.84	117.11	109.58
1	2c	107	THR	CA-C-O	-5.84	114.87	121.00
1	2t	215	MET	O-C-N	-5.84	115.17	122.35
1	2F	197	ASP	CA-CB-CG	-5.84	106.76	112.60
1	2G	26	VAL	CA-C-N	5.84	128.72	120.42
1	2G	26	VAL	C-N-CA	5.84	128.72	120.42
1	2S	138	LEU	CA-C-N	5.84	128.11	120.28
1	2S	138	LEU	C-N-CA	5.84	128.11	120.28
1	30	16	SER	CA-C-N	5.84	125.46	119.56
1	30	16	SER	C-N-CA	5.84	125.46	119.56
1	38	132	ARG	CA-C-N	5.84	128.03	120.44
1	38	132	ARG	C-N-CA	5.84	128.03	120.44
1	39	30	LYS	O-C-N	-5.84	115.30	122.25
1	3d	124	ILE	O-C-N	-5.84	115.69	121.12
1	3g	167	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	3R	139	ASN	CA-C-N	5.84	128.11	120.28
1	3R	139	ASN	C-N-CA	5.84	128.11	120.28
1	3W	167	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	43	186	THR	O-C-N	-5.84	116.05	122.07
1	49	25	LYS	N-CA-C	5.84	117.65	111.28
1	4t	213	GLU	O-C-N	-5.84	115.93	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	47	ALA	O-C-N	-5.84	116.56	123.22
1	4G	133	TRP	CA-C-O	5.84	126.95	120.82
1	4N	200	THR	OG1-CB-CG2	-5.84	97.62	109.30
1	4Y	117	TRP	CA-C-N	5.84	128.11	120.28
1	4Y	117	TRP	C-N-CA	5.84	128.11	120.28
1	55	222	GLY	CA-C-O	-5.84	116.68	121.76
1	5h	56	LEU	O-C-N	-5.84	115.49	122.15
1	5x	49	PRO	CA-C-N	5.84	128.59	120.29
1	5x	49	PRO	C-N-CA	5.84	128.59	120.29
1	62	80	TRP	O-C-N	-5.84	115.93	122.12
1	6c	100	ARG	O-C-N	-5.84	115.52	122.65
1	6t	51	ASP	CB-CA-C	-5.84	101.71	110.88
1	6t	132	ARG	N-CA-CB	5.84	118.81	110.16
1	78	155	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	7a	37	ILE	CA-C-O	-5.84	114.78	118.69
1	7b	100	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	7p	134	ILE	O-C-N	-5.84	116.19	121.91
1	7v	138	LEU	O-C-N	-5.84	115.93	122.12
1	7w	164	TYR	CA-C-O	5.84	126.61	120.42
1	7O	98	GLU	CA-C-N	5.84	126.18	119.93
1	7O	98	GLU	C-N-CA	5.84	126.18	119.93
1	8c	39	MET	CA-C-N	5.84	128.11	120.28
1	8c	39	MET	C-N-CA	5.84	128.11	120.28
1	8f	199	LYS	N-CA-C	5.84	118.40	111.33
1	8g	80	TRP	CB-CG-CD1	-5.84	118.14	126.90
1	8v	204	ALA	N-CA-C	5.84	117.32	111.07
1	8A	36	VAL	O-C-N	-5.84	116.20	121.87
1	8B	229	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	8D	87	HIS	CA-C-O	-5.84	113.98	120.70
1	8X	100	ARG	CD-NE-CZ	-5.84	116.22	124.40
1	9e	88	ALA	CA-C-N	5.84	131.04	121.87
1	9e	88	ALA	C-N-CA	5.84	131.04	121.87
1	9j	167	ARG	CA-C-N	5.84	128.36	120.65
1	9j	167	ARG	C-N-CA	5.84	128.36	120.65
1	9w	40	PHE	CA-CB-CG	-5.84	107.96	113.80
1	9z	89	GLY	O-C-N	5.84	127.61	121.77
1	9G	19	THR	CA-CB-CG2	5.84	120.43	110.50
1	9G	160	PRO	CA-C-N	5.84	128.11	120.28
1	9G	160	PRO	C-N-CA	5.84	128.11	120.28
1	9O	142	VAL	CA-C-N	5.84	128.59	120.29
1	9O	142	VAL	C-N-CA	5.84	128.59	120.29
1	9Q	203	LYS	O-C-N	-5.84	114.50	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a4	56	LEU	O-C-N	-5.84	116.05	122.07
1	a6	92	GLU	N-CA-C	5.84	117.89	109.48
1	a7	229	ARG	NH1-CZ-NH2	-5.84	111.70	119.30
1	ar	92	GLU	N-CA-CB	-5.84	101.21	110.03
1	15	84	HIS	CA-C-O	-5.84	112.78	119.32
1	aY	33	SER	O-C-N	-5.84	114.89	121.43
1	17	185	MET	CG-SD-CE	-5.84	88.05	100.90
1	bl	112	GLN	N-CA-C	5.84	118.40	111.33
1	by	149	SER	CA-C-N	5.84	128.13	120.60
1	by	149	SER	C-N-CA	5.84	128.13	120.60
1	bF	19	THR	CA-C-N	5.84	128.11	120.28
1	bF	19	THR	C-N-CA	5.84	128.11	120.28
1	bJ	76	GLU	O-C-N	5.84	128.16	122.09
1	bS	171	THR	CB-CA-C	-5.84	100.92	110.85
1	cM	70	LYS	CA-C-N	5.84	128.11	120.28
1	cM	70	LYS	C-N-CA	5.84	128.11	120.28
1	cU	52	LEU	N-CA-C	5.84	119.67	112.54
1	dh	92	GLU	N-CA-C	5.84	121.45	113.16
1	dk	155	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	dy	101	GLY	CA-C-N	5.84	128.58	120.29
1	dy	101	GLY	C-N-CA	5.84	128.58	120.29
1	dD	160	PRO	N-CA-CB	5.84	108.82	103.15
1	dX	230	VAL	CA-C-N	5.84	132.22	121.70
1	dX	230	VAL	C-N-CA	5.84	132.22	121.70
1	ea	106	GLY	CA-C-O	5.84	126.98	119.68
1	ej	144	MET	N-CA-C	5.84	117.73	111.36
1	en	29	GLU	CB-CA-C	-5.84	99.26	109.07
1	ew	91	ILE	CA-C-O	5.84	127.50	120.67
1	eG	230	VAL	N-CA-C	5.84	121.49	109.34
1	eW	36	VAL	CA-C-N	5.84	125.00	120.33
1	eW	36	VAL	C-N-CA	5.84	125.00	120.33
1	f1	136	LEU	O-C-N	5.84	128.09	122.07
1	f2	39	MET	N-CA-C	5.84	117.32	111.07
1	f7	120	HIS	O-C-N	-5.84	114.82	122.59
1	f9	62	HIS	ND1-CG-CD2	5.84	111.94	106.10
1	fa	82	ARG	N-CA-CB	5.84	118.48	110.01
1	ff	82	ARG	N-CA-C	-5.84	106.31	113.50
1	fn	186	THR	N-CA-CB	5.84	118.48	110.01
1	fA	21	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	fA	70	LYS	CB-CG-CD	5.84	124.74	111.30
1	fK	139	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	fS	113	GLU	CA-C-O	5.84	126.95	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fV	214	MET	O-C-N	-5.84	115.93	122.12
1	g0	61	GLY	N-CA-C	5.84	120.08	112.25
1	g1	25	LYS	O-C-N	-5.84	115.93	122.12
1	g6	205	LEU	CA-C-O	5.84	126.72	120.70
1	c	139	ASN	CA-C-O	5.84	126.95	120.82
1	f	199	LYS	N-CA-C	5.84	118.40	111.33
1	1	17	PRO	N-CA-CB	5.84	109.38	103.25
1	o	217	ALA	CA-C-O	-5.84	114.36	120.55
1	t	86	VAL	CA-C-O	5.84	126.53	120.39
1	t	131	LYS	N-CA-C	5.84	118.40	111.33
1	u	184	TRP	CB-CG-CD1	-5.84	118.14	126.90
1	3	167	ARG	CA-C-N	5.84	128.43	120.54
1	3	167	ARG	C-N-CA	5.84	128.43	120.54
1	K	175	GLU	O-C-N	-5.84	113.90	122.43
1	1C	108	THR	N-CA-C	-5.84	103.64	111.87
1	gm	207	PRO	N-CD-CG	-5.84	94.44	103.20
1	gp	114	GLN	CA-C-O	5.84	126.74	120.55
1	gw	51	ASP	CA-C-N	5.84	128.58	120.29
1	gw	51	ASP	C-N-CA	5.84	128.58	120.29
1	gx	40	PHE	O-C-N	-5.84	115.49	122.15
1	gG	102	SER	N-CA-CB	5.84	119.33	110.28
1	gM	211	LEU	N-CA-C	5.84	117.64	111.28
1	gN	92	GLU	CA-C-O	-5.84	115.13	120.50
1	h2	168	PHE	CA-C-O	5.84	127.49	121.07
1	h9	155	GLN	CB-CG-CD	5.84	122.53	112.60
1	hj	200	THR	CA-CB-CG2	5.84	120.43	110.50
1	hZ	47	ALA	N-CA-C	5.84	118.70	110.23
1	il	135	ILE	O-C-N	-5.84	116.21	121.87
1	io	107	THR	N-CA-CB	5.84	118.48	110.01
1	it	80	TRP	CD2-CE2-CZ2	5.84	128.24	122.40
1	iw	30	LYS	CA-C-O	5.84	126.68	119.79
1	iw	177	ALA	N-CA-C	5.84	118.70	110.23
1	ix	178	SER	O-C-N	-5.84	115.35	122.82
1	iB	37	ILE	O-C-N	-5.84	115.92	120.07
1	iH	221	VAL	N-CA-C	5.84	121.48	109.34
1	iW	64	ALA	N-CA-C	5.84	117.45	111.14
1	jm	76	GLU	CA-C-N	5.84	128.58	120.29
1	jm	76	GLU	C-N-CA	5.84	128.58	120.29
1	1W	106	GLY	CA-C-N	5.84	128.38	120.44
1	1W	106	GLY	C-N-CA	5.84	128.38	120.44
1	jy	184	TRP	CB-CA-C	5.84	120.48	110.79
1	1X	171	THR	O-C-N	-5.84	115.93	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jM	19	THR	N-CA-CB	5.84	118.80	110.16
1	jZ	132	ARG	N-CA-C	5.84	118.40	111.33
1	k1	184	TRP	N-CA-C	5.84	117.64	111.28
1	kb	200	THR	N-CA-C	5.84	117.65	111.28
1	kj	134	ILE	N-CA-C	5.84	116.49	110.36
1	kx	52	LEU	O-C-N	-5.84	115.49	122.15
1	kz	226	HIS	CB-CG-ND1	-5.84	113.94	122.70
1	kN	176	GLN	CB-CG-CD	5.84	122.53	112.60
1	lA	211	LEU	CA-C-N	5.84	128.03	120.44
1	lA	211	LEU	C-N-CA	5.84	128.03	120.44
1	lF	143	ARG	CA-C-N	5.84	128.03	120.44
1	lF	143	ARG	C-N-CA	5.84	128.03	120.44
1	lG	92	GLU	CA-C-N	5.84	125.86	119.90
1	lG	92	GLU	C-N-CA	5.84	125.86	119.90
1	2v	36	VAL	CA-C-N	5.84	125.00	120.33
1	2v	36	VAL	C-N-CA	5.84	125.00	120.33
1	2P	9	GLN	CB-CA-C	-5.84	103.36	112.12
1	2Y	172	LEU	CA-C-O	-5.84	114.23	120.42
1	32	213	GLU	CA-C-N	5.84	128.38	120.44
1	32	213	GLU	C-N-CA	5.84	128.38	120.44
1	3a	170	LYS	O-C-N	-5.84	115.49	122.15
1	3m	216	THR	CA-C-O	5.84	126.27	119.32
1	3n	166	ASP	CA-C-O	-5.84	114.69	120.82
1	3n	175	GLU	O-C-N	-5.84	115.35	122.82
1	3y	98	GLU	N-CA-C	5.84	117.06	109.64
1	3J	167	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	3S	38	PRO	CA-C-O	5.84	127.92	119.34
1	3W	62	HIS	ND1-CG-CD2	5.84	111.94	106.10
1	3Y	128	GLU	N-CA-C	5.84	117.32	111.07
1	48	161	PHE	CA-CB-CG	5.84	119.64	113.80
1	4a	171	THR	CA-C-N	5.84	129.19	120.31
1	4a	171	THR	C-N-CA	5.84	129.19	120.31
1	4N	84	HIS	CB-CG-CD2	-5.84	123.61	131.20
1	5d	203	LYS	N-CA-C	5.84	117.64	111.28
1	5C	71	GLU	N-CA-C	5.84	118.39	111.33
1	5P	126	VAL	N-CA-C	5.84	116.62	110.72
1	5V	179	GLN	CA-C-N	5.84	128.42	120.54
1	5V	179	GLN	C-N-CA	5.84	128.42	120.54
1	6c	78	ALA	O-C-N	-5.84	115.93	122.12
1	6g	21	ASN	CA-C-O	5.84	126.74	120.55
1	6x	180	GLU	CA-C-O	5.84	126.68	119.79
1	7g	89	GLY	CA-C-N	5.84	127.14	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7g	89	GLY	C-N-CA	5.84	127.14	119.84
1	7j	43	LEU	N-CA-CB	5.84	120.25	110.32
1	7n	16	SER	O-C-N	5.84	127.61	121.42
1	7o	149	SER	CA-C-O	5.84	127.71	121.11
1	7r	13	GLN	CA-C-N	5.84	129.16	120.87
1	7r	13	GLN	C-N-CA	5.84	129.16	120.87
1	7r	112	GLN	CA-C-N	5.84	128.10	120.28
1	7r	112	GLN	C-N-CA	5.84	128.10	120.28
1	7A	191	VAL	N-CA-C	5.84	116.49	110.36
1	7D	71	GLU	CA-C-N	5.84	128.38	120.44
1	7D	71	GLU	C-N-CA	5.84	128.38	120.44
1	7D	146	SER	O-C-N	-5.84	114.60	121.32
1	7E	7	GLN	CA-C-N	5.84	128.76	122.69
1	7E	7	GLN	C-N-CA	5.84	128.76	122.69
1	7G	172	LEU	CA-C-O	5.84	126.56	119.38
1	7K	167	ARG	CA-C-N	5.84	128.10	120.28
1	7K	167	ARG	C-N-CA	5.84	128.10	120.28
1	7T	58	THR	CA-CB-OG1	5.84	118.36	109.60
1	81	104	ILE	CB-CA-C	5.84	119.44	111.97
1	84	113	GLU	CA-C-N	5.84	128.10	120.28
1	84	113	GLU	C-N-CA	5.84	128.10	120.28
1	8a	148	THR	O-C-N	-5.84	116.94	123.48
1	8d	98	GLU	O-C-N	5.84	126.50	121.30
1	8k	126	VAL	CA-C-N	5.84	126.59	119.99
1	8k	126	VAL	C-N-CA	5.84	126.59	119.99
1	8w	50	GLN	N-CA-C	5.84	117.72	111.36
1	8L	144	MET	N-CA-C	5.84	117.32	111.07
1	93	116	GLY	O-C-N	5.84	127.80	122.19
1	9d	145	TYR	N-CA-C	5.84	120.10	112.92
1	a8	199	LYS	CA-C-N	5.84	128.03	120.44
1	a8	199	LYS	C-N-CA	5.84	128.03	120.44
1	a9	59	VAL	CA-C-N	5.84	132.86	121.41
1	a9	59	VAL	C-N-CA	5.84	132.86	121.41
1	aa	197	ASP	CA-C-O	5.84	127.49	121.07
1	ac	120	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	aE	143	ARG	CD-NE-CZ	5.84	132.57	124.40
1	aK	87	HIS	CA-CB-CG	5.84	119.64	113.80
1	aS	87	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	15	9	GLN	O-C-N	-5.84	115.29	123.11
1	aZ	95	GLN	CB-CG-CD	5.84	122.53	112.60
1	b0	33	SER	CA-C-O	-5.84	112.16	120.16
1	b1	125	PRO	CB-CA-C	-5.84	102.81	112.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	178	SER	N-CA-C	5.84	118.08	110.43
1	be	5	ASN	CA-C-O	5.84	128.23	121.28
1	be	21	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	bi	134	ILE	O-C-N	-5.84	116.19	121.91
1	bp	142	VAL	N-CA-CB	5.84	117.38	110.55
1	bq	112	GLN	CA-C-N	5.84	128.10	120.28
1	bq	112	GLN	C-N-CA	5.84	128.10	120.28
1	bw	38	PRO	CA-C-N	5.84	128.10	120.28
1	bw	38	PRO	C-N-CA	5.84	128.10	120.28
1	bH	133	TRP	CE3-CZ3-CH2	5.84	128.69	121.10
1	bP	141	ILE	N-CA-C	5.84	116.58	110.62
1	c5	208	ALA	CA-C-O	5.84	125.21	119.08
1	ca	49	PRO	O-C-N	-5.84	114.39	122.27
1	cd	163	ASP	N-CA-CB	-5.84	101.52	110.16
1	ce	229	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	cg	46	GLY	CA-C-N	5.84	129.13	120.90
1	cg	46	GLY	C-N-CA	5.84	129.13	120.90
1	ch	47	ALA	CA-C-O	5.84	127.61	121.19
1	1e	214	MET	N-CA-C	5.84	117.45	111.14
1	cu	162	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	d9	83	LEU	N-CA-CB	5.84	118.48	110.01
1	dr	131	LYS	CA-CB-CG	5.84	125.78	114.10
1	dG	229	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	dJ	34	PRO	CA-C-N	5.84	128.91	120.38
1	dJ	34	PRO	C-N-CA	5.84	128.91	120.38
1	dR	148	THR	N-CA-C	5.84	118.70	110.23
1	ed	221	VAL	CB-CA-C	5.84	117.25	110.88
1	er	12	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	eJ	11	VAL	CA-C-N	5.84	129.12	120.95
1	eJ	11	VAL	C-N-CA	5.84	129.12	120.95
1	1t	199	LYS	N-CA-C	5.84	120.94	111.37
1	eQ	81	ASP	CA-CB-CG	-5.84	106.76	112.60
1	eV	171	THR	N-CA-CB	5.84	118.80	110.16
1	1u	87	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	f9	179	GLN	N-CA-C	5.84	117.64	111.28
1	fc	161	PHE	CA-C-O	5.84	126.69	119.97
1	fp	42	ALA	N-CA-C	5.84	118.43	111.71
1	fq	84	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	fr	62	HIS	CA-C-N	5.84	129.19	120.31
1	fr	62	HIS	C-N-CA	5.84	129.19	120.31
1	fw	5	ASN	CA-CB-CG	5.84	118.44	112.60
1	fQ	2	ILE	CA-C-N	5.84	129.94	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fQ	2	ILE	C-N-CA	5.84	129.94	121.18
1	fQ	154	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	fU	74	ASN	CA-CB-CG	5.84	118.44	112.60
1	g4	84	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	g4	129	ILE	N-CA-CB	5.84	118.48	110.54
1	3	129	ILE	N-CA-C	5.84	117.36	111.00
1	E	216	THR	O-C-N	-5.84	116.06	122.07
1	L	18	ARG	NE-CZ-NH2	-5.84	113.94	119.20
1	S	58	THR	CA-C-O	5.84	128.41	121.17
1	V	139	ASN	CB-CA-C	-5.84	101.09	110.79
1	6	154	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	6	183	ASN	N-CA-C	5.84	118.14	111.02
1	gj	18	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	gm	102	SER	CA-C-O	5.84	126.13	119.18
1	gy	152	ASP	N-CA-C	-5.84	105.81	113.17
1	gV	67	GLN	CB-CG-CD	5.84	122.53	112.60
1	hg	191	VAL	CA-C-O	5.84	127.04	120.85
1	hn	18	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	hA	159	GLU	N-CA-C	5.84	118.06	109.42
1	hI	84	HIS	CA-CB-CG	5.84	119.64	113.80
1	hQ	207	PRO	CB-CA-C	-5.84	102.65	110.88
1	1M	193	ASN	CA-C-N	5.84	129.56	120.75
1	1M	193	ASN	C-N-CA	5.84	129.56	120.75
1	ik	162	ARG	CD-NE-CZ	5.84	132.57	124.40
1	1P	191	VAL	CB-CA-C	-5.84	104.36	112.36
1	j4	195	ASN	CA-C-N	5.84	125.97	119.32
1	j4	195	ASN	C-N-CA	5.84	125.97	119.32
1	jo	178	SER	O-C-N	-5.84	115.63	122.81
1	jy	87	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	ke	3	VAL	CA-CB-CG1	5.84	120.33	110.40
1	kL	184	TRP	CB-CG-CD2	5.84	134.97	126.80
1	kV	74	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	lA	80	TRP	CA-C-N	5.84	128.10	120.28
1	lA	80	TRP	C-N-CA	5.84	128.10	120.28
1	2F	178	SER	N-CA-C	5.84	117.83	110.24
1	3B	84	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	49	87	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	4y	52	LEU	CB-CA-C	5.84	120.15	110.81
1	4J	135	ILE	N-CA-C	5.84	116.58	110.62
1	56	183	ASN	N-CA-C	5.84	117.32	111.07
1	6k	145	TYR	N-CA-C	5.84	119.42	110.20
1	6k	208	ALA	N-CA-C	-5.84	105.74	112.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6l	19	THR	O-C-N	-5.84	115.93	122.12
1	7d	5	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	7F	126	VAL	N-CA-CB	5.84	119.34	110.58
1	7Z	107	THR	CA-CB-OG1	5.84	118.36	109.60
1	8p	106	GLY	CA-C-N	5.84	128.10	120.28
1	8p	106	GLY	C-N-CA	5.84	128.10	120.28
1	8E	210	THR	N-CA-CB	5.84	118.55	109.85
1	9z	52	LEU	O-C-N	-5.84	115.50	122.15
1	9M	204	ALA	CA-C-N	5.84	128.42	120.54
1	9M	204	ALA	C-N-CA	5.84	128.42	120.54
1	a2	117	TRP	CD2-CE2-CZ2	-5.84	116.56	122.40
1	ap	205	LEU	CA-C-N	5.84	131.04	121.87
1	ap	205	LEU	C-N-CA	5.84	131.04	121.87
1	as	203	LYS	N-CA-C	5.84	117.44	111.14
1	b7	26	VAL	N-CA-CB	5.84	118.48	110.54
1	bb	172	LEU	CA-C-N	5.84	128.69	120.28
1	bb	172	LEU	C-N-CA	5.84	128.69	120.28
1	bK	191	VAL	N-CA-C	5.84	115.96	110.30
1	bP	164	TYR	CA-C-N	5.84	128.46	120.46
1	bP	164	TYR	C-N-CA	5.84	128.46	120.46
1	bY	17	PRO	CA-C-N	5.84	128.10	120.28
1	bY	17	PRO	C-N-CA	5.84	128.10	120.28
1	c2	173	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	cn	169	TYR	O-C-N	5.84	130.25	122.43
1	cX	56	LEU	N-CA-C	5.84	117.72	111.36
1	db	113	GLU	CB-CG-CD	-5.84	102.68	112.60
1	dp	19	THR	N-CA-C	5.84	117.32	111.07
1	dI	149	SER	N-CA-CB	5.84	119.17	109.60
1	e4	105	ALA	CA-C-N	5.84	131.03	122.10
1	e4	105	ALA	C-N-CA	5.84	131.03	122.10
1	e5	36	VAL	CA-CB-CG2	-5.84	100.47	110.40
1	1p	179	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	eg	84	HIS	CB-CG-CD2	-5.84	123.61	131.20
1	fh	148	THR	CB-CA-C	5.84	120.05	109.83
1	fA	29	GLU	CA-C-O	-5.84	114.30	120.55
1	fK	193	ASN	N-CA-C	-5.84	105.81	113.17
1	g0	92	GLU	CB-CG-CD	5.84	122.53	112.60
1	1B	164	TYR	O-C-N	-5.84	116.02	122.09
1	k	148	THR	O-C-N	-5.84	116.50	123.27
1	gf	18	ARG	N-CA-CB	5.84	118.47	110.01
1	gh	226	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	gz	82	ARG	NE-CZ-NH2	-5.84	113.95	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h3	82	ARG	CA-CB-CG	5.84	125.77	114.10
1	hb	90	PRO	N-CA-C	5.84	120.35	111.19
1	ht	143	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	hx	172	LEU	N-CA-C	-5.84	106.20	113.15
1	hI	28	GLU	N-CA-C	5.84	118.39	111.33
1	1M	114	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	1M	128	GLU	N-CA-C	5.84	117.64	111.28
1	i1	18	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	i3	38	PRO	N-CD-CG	5.84	111.95	103.20
1	i6	87	HIS	CA-CB-CG	-5.84	107.96	113.80
1	i7	19	THR	O-C-N	-5.84	115.93	122.12
1	i7	166	ASP	CA-C-N	5.84	128.10	120.28
1	i7	166	ASP	C-N-CA	5.84	128.10	120.28
1	ij	50	GLN	N-CA-CB	5.84	118.70	110.12
1	it	100	ARG	NE-CZ-NH2	-5.84	113.95	119.20
1	1Q	66	MET	O-C-N	-5.84	115.50	122.15
1	iE	173	ARG	CA-C-O	5.84	126.74	120.55
1	iH	27	VAL	N-CA-C	5.84	118.34	111.05
1	iQ	183	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	jz	163	ASP	CA-C-N	5.84	128.38	120.38
1	jz	163	ASP	C-N-CA	5.84	128.38	120.38
1	jC	46	GLY	CA-C-O	-5.84	112.85	119.04
1	jL	116	GLY	N-CA-C	5.84	119.73	112.73
1	jO	10	MET	CG-SD-CE	-5.84	88.06	100.90
1	jS	4	GLN	N-CA-CB	-5.84	101.02	109.83
1	k2	18	ARG	O-C-N	-5.84	115.93	122.12
1	k6	184	TRP	CA-C-O	5.84	126.74	120.55
1	20	72	THR	N-CA-C	5.84	117.31	111.07
1	ke	209	ALA	CB-CA-C	5.84	119.63	109.65
1	23	110	THR	O-C-N	-5.84	115.57	123.10
1	23	123	PRO	N-CA-C	5.84	120.39	111.11
1	kV	144	MET	N-CA-C	5.84	117.31	111.07
1	25	151	LEU	CB-CA-C	-5.84	101.31	110.94
1	l3	51	ASP	CA-C-O	5.84	126.69	120.10
1	l8	167	ARG	CA-C-N	5.84	128.35	120.65
1	l8	167	ARG	C-N-CA	5.84	128.35	120.65
1	lg	37	ILE	CA-C-N	5.84	125.53	119.05
1	lg	37	ILE	C-N-CA	5.84	125.53	119.05
1	ln	199	LYS	N-CA-CB	5.84	118.64	109.94
1	lv	181	VAL	O-C-N	-5.84	116.10	121.94
1	lB	53	ASN	CA-CB-CG	-5.84	106.76	112.60
1	29	227	LYS	N-CA-C	5.84	118.71	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	48	THR	N-CA-CB	5.84	116.37	109.72
1	2e	138	LEU	N-CA-CB	5.84	118.53	110.07
1	2g	226	HIS	CA-CB-CG	5.84	119.64	113.80
1	2w	12	HIS	CB-CA-C	-5.84	100.12	109.75
1	2G	116	GLY	CA-C-N	5.84	128.42	120.54
1	2G	116	GLY	C-N-CA	5.84	128.42	120.54
1	2S	25	LYS	N-CA-CB	-5.84	101.54	110.12
1	33	63	GLN	O-C-N	-5.84	115.93	122.12
1	34	36	VAL	N-CA-C	-5.84	104.82	110.72
1	3o	86	VAL	O-C-N	-5.84	116.96	123.26
1	3P	92	GLU	O-C-N	-5.84	117.97	121.71
1	3Q	85	PRO	CA-C-O	5.84	125.87	121.38
1	3T	109	SER	O-C-N	-5.84	115.57	123.10
1	3X	42	ALA	CA-C-N	5.84	128.38	120.38
1	3X	42	ALA	C-N-CA	5.84	128.38	120.38
1	4A	19	THR	CA-C-O	-5.84	114.69	120.82
1	4F	100	ARG	CA-C-N	5.84	127.44	120.14
1	4F	100	ARG	C-N-CA	5.84	127.44	120.14
1	4I	28	GLU	N-CA-C	-5.84	106.20	113.38
1	4Y	15	ILE	O-C-N	-5.84	116.50	122.75
1	5n	132	ARG	N-CA-C	5.84	117.64	111.28
1	5E	143	ARG	NH1-CZ-NH2	-5.84	111.71	119.30
1	5P	111	LEU	N-CA-C	5.84	118.11	111.11
1	5V	137	GLY	CA-C-N	5.84	128.58	120.29
1	5V	137	GLY	C-N-CA	5.84	128.58	120.29
1	5X	145	TYR	N-CA-C	-5.84	106.39	112.93
1	62	175	GLU	N-CA-C	5.84	119.04	109.76
1	67	193	ASN	OD1-CG-ND2	-5.84	116.76	122.60
1	6N	16	SER	CA-C-O	-5.84	114.76	120.19
1	6P	73	ILE	CB-CA-C	5.84	119.44	111.97
1	7a	177	ALA	CA-C-N	5.84	129.13	120.90
1	7a	177	ALA	C-N-CA	5.84	129.13	120.90
1	7g	123	PRO	CB-CA-C	5.84	118.63	110.98
1	7k	63	GLN	OE1-CD-NE2	-5.84	116.76	122.60
1	7s	81	ASP	CA-CB-CG	-5.84	106.76	112.60
1	7B	76	GLU	O-C-N	-5.84	115.50	122.15
1	7L	159	GLU	O-C-N	-5.84	116.59	121.38
1	7M	139	ASN	CA-CB-CG	5.84	118.44	112.60
1	7N	125	PRO	CA-C-N	5.84	127.91	120.56
1	7N	125	PRO	C-N-CA	5.84	127.91	120.56
1	7Q	191	VAL	O-C-N	-5.84	115.82	121.83
1	7T	196	PRO	N-CA-C	5.84	122.45	113.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	82	31	ALA	CB-CA-C	-5.84	109.86	116.63
1	86	141	ILE	CA-C-O	5.84	127.36	121.17
1	8k	90	PRO	CB-CA-C	-5.84	103.76	111.23
1	8n	5	ASN	CB-CA-C	5.84	118.39	109.34
1	8w	5	ASN	CA-CB-CG	-5.84	106.76	112.60
1	8z	87	HIS	CG-CD2-NE2	5.84	113.04	107.20
1	8J	223	GLY	CA-C-N	5.84	125.70	119.28
1	8J	223	GLY	C-N-CA	5.84	125.70	119.28
1	8N	162	ARG	N-CA-CB	5.84	118.82	110.06
1	92	95	GLN	CA-C-N	5.84	131.65	122.78
1	92	95	GLN	C-N-CA	5.84	131.65	122.78
1	9a	51	ASP	CA-CB-CG	-5.84	106.76	112.60
1	9h	131	LYS	N-CA-CB	-5.84	101.54	110.12
1	9k	176	GLN	CB-CA-C	5.84	120.68	110.64
1	9t	131	LYS	N-CA-CB	5.84	118.70	110.12
1	9I	107	THR	CA-CB-CG2	-5.84	100.58	110.50
1	9K	183	ASN	N-CA-C	5.84	118.59	111.82
1	9P	117	TRP	CZ3-CH2-CZ2	-5.84	113.91	121.50
1	9Z	143	ARG	N-CA-C	5.84	118.42	111.71
1	aa	185	MET	O-C-N	-5.84	115.40	122.11
1	ad	18	ARG	NE-CZ-NH1	5.84	127.34	121.50
1	ak	120	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	aw	220	GLY	N-CA-C	5.84	121.83	111.73
1	aV	87	HIS	CA-C-N	5.84	129.66	121.02
1	aV	87	HIS	C-N-CA	5.84	129.66	121.02
1	bh	113	GLU	O-C-N	5.84	128.08	122.07
1	bm	138	LEU	CA-C-N	5.84	128.10	120.28
1	bm	138	LEU	C-N-CA	5.84	128.10	120.28
1	bq	84	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	bw	68	MET	CA-C-N	5.84	128.03	120.44
1	bw	68	MET	C-N-CA	5.84	128.03	120.44
1	bD	62	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	bI	134	ILE	CA-C-N	5.84	128.76	120.53
1	bI	134	ILE	C-N-CA	5.84	128.76	120.53
1	bO	182	LYS	O-C-N	-5.84	115.93	122.12
1	bP	155	GLN	CB-CG-CD	-5.84	102.68	112.60
1	bQ	77	ALA	CA-C-N	5.84	128.42	120.54
1	bQ	77	ALA	C-N-CA	5.84	128.42	120.54
1	bX	81	ASP	N-CA-C	-5.84	105.65	112.89
1	c6	149	SER	N-CA-C	5.84	118.99	108.48
1	cd	146	SER	CA-C-O	-5.84	112.16	120.16
1	1d	96	MET	O-C-N	5.84	128.29	122.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ck	53	ASN	N-CA-C	5.84	117.64	111.28
1	ct	167	ARG	CA-C-N	5.84	128.03	120.44
1	ct	167	ARG	C-N-CA	5.84	128.03	120.44
1	cz	2	ILE	CA-CB-CG1	5.84	120.32	110.40
1	cL	120	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
1	cL	181	VAL	CA-C-N	5.84	128.10	120.28
1	cL	181	VAL	C-N-CA	5.84	128.10	120.28
1	1h	86	VAL	N-CA-C	5.84	121.48	109.34
1	dj	205	LEU	CA-C-O	5.84	126.68	119.97
1	dt	212	GLU	N-CA-C	5.84	117.64	111.28
1	dv	136	LEU	CA-C-O	5.84	126.61	120.42
1	dx	168	PHE	CB-CA-C	5.84	120.04	110.88
1	dx	168	PHE	N-CA-CB	-5.84	101.55	110.01
1	dE	12	HIS	CG-CD2-NE2	5.84	113.04	107.20
1	dU	220	GLY	O-C-N	-5.84	116.58	122.59
1	dW	171	THR	CA-C-N	5.84	129.18	120.31
1	dW	171	THR	C-N-CA	5.84	129.18	120.31
1	e3	45	GLU	CA-C-O	5.84	127.52	120.81
1	eh	3	VAL	CA-C-O	-5.84	113.42	118.96
1	eh	16	SER	N-CA-C	5.84	118.08	109.50
1	ek	130	TYR	CA-C-O	5.84	126.95	120.82
1	ez	101	GLY	CA-C-N	5.84	128.10	120.28
1	ez	101	GLY	C-N-CA	5.84	128.10	120.28
1	eD	156	GLY	O-C-N	-5.84	115.93	121.77
1	eU	13	GLN	O-C-N	-5.84	115.64	123.23
1	fb	67	GLN	N-CA-C	5.84	117.64	111.28
1	fm	50	GLN	CB-CA-C	5.84	120.48	110.79
1	fs	9	GLN	O-C-N	-5.84	116.40	122.94
1	fC	36	VAL	N-CA-C	-5.84	104.81	113.39
1	fF	171	THR	CA-C-N	5.84	128.90	120.38
1	fF	171	THR	C-N-CA	5.84	128.90	120.38
1	fK	29	GLU	N-CA-C	5.84	118.39	111.33
1	fL	184	TRP	N-CA-C	5.84	117.64	111.28
1	fN	12	HIS	ND1-CE1-NE2	5.84	114.24	108.40
1	1A	133	TRP	CA-C-N	5.84	128.13	120.60
1	1A	133	TRP	C-N-CA	5.84	128.13	120.60
1	0	140	LYS	CA-C-N	5.84	127.92	120.56
1	0	140	LYS	C-N-CA	5.84	127.92	120.56
1	f	38	PRO	N-CA-C	5.84	122.45	113.75
1	g	9	GLN	CA-C-N	5.84	129.05	120.82
1	g	9	GLN	C-N-CA	5.84	129.05	120.82
1	i	175	GLU	O-C-N	-5.84	115.09	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	18	ARG	CA-C-N	5.84	128.03	120.44
1	1	18	ARG	C-N-CA	5.84	128.03	120.44
1	r	195	ASN	O-C-N	-5.84	112.83	121.12
1	B	213	GLU	CA-C-O	-5.84	114.65	121.07
1	C	22	ALA	CA-C-O	5.84	126.61	120.42
1	I	74	ASN	CA-C-N	5.84	128.58	120.29
1	I	74	ASN	C-N-CA	5.84	128.58	120.29
1	J	80	TRP	CA-C-O	5.84	126.74	120.55
1	gA	39	MET	N-CA-C	5.83	117.31	111.07
1	gM	55	MET	CA-C-O	5.83	126.95	120.82
1	h2	26	VAL	CA-C-N	5.83	128.71	120.42
1	h2	26	VAL	C-N-CA	5.83	128.71	120.42
1	h4	51	ASP	CA-C-O	5.83	126.72	120.24
1	hI	16	SER	N-CA-C	5.83	118.13	110.08
1	hX	96	MET	CA-C-N	5.83	129.56	120.75
1	hX	96	MET	C-N-CA	5.83	129.56	120.75
1	i7	58	THR	CA-C-N	5.83	129.93	121.18
1	i7	58	THR	C-N-CA	5.83	129.93	121.18
1	ii	229	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	iw	192	GLN	N-CA-C	5.83	118.11	111.11
1	iA	71	GLU	O-C-N	-5.83	116.06	122.07
1	1T	54	THR	N-CA-C	-5.83	104.92	111.28
1	1T	110	THR	N-CA-CB	5.83	119.32	110.45
1	1U	196	PRO	N-CA-C	5.83	124.49	112.47
1	jA	52	LEU	CA-C-O	-5.83	114.69	120.82
1	k7	49	PRO	CB-CA-C	5.83	121.19	111.56
1	kx	140	LYS	CA-C-N	5.83	128.41	120.77
1	kx	140	LYS	C-N-CA	5.83	128.41	120.77
1	kE	18	ARG	CG-CD-NE	-5.83	99.16	112.00
1	28	97	ARG	NE-CZ-NH2	5.83	124.45	119.20
1	lt	229	ARG	NH1-CZ-NH2	-5.83	111.71	119.30
1	lB	106	GLY	CA-C-N	5.83	128.58	120.29
1	lB	106	GLY	C-N-CA	5.83	128.58	120.29
1	2b	135	ILE	O-C-N	5.83	127.53	121.87
1	2g	150	ILE	O-C-N	-5.83	116.01	121.90
1	2U	167	ARG	O-C-N	-5.83	116.06	122.07
1	34	63	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	3m	55	MET	N-CA-C	5.83	117.72	111.36
1	44	156	GLY	O-C-N	-5.83	116.34	122.18
1	4i	195	ASN	N-CA-C	5.83	116.31	109.60
1	4l	7	GLN	CA-CB-CG	5.83	125.77	114.10
1	4s	153	ILE	N-CA-C	5.83	116.59	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4P	85	PRO	N-CA-C	5.83	120.39	111.11
1	5N	48	THR	N-CA-CB	5.83	117.09	110.03
1	5V	127	GLY	O-C-N	-5.83	116.59	122.19
1	6F	21	ASN	CA-C-N	5.83	128.03	120.44
1	6F	21	ASN	C-N-CA	5.83	128.03	120.44
1	6N	43	LEU	N-CA-C	-5.83	106.16	113.28
1	72	111	LEU	N-CA-C	5.83	118.42	111.71
1	7z	213	GLU	CB-CG-CD	5.83	122.52	112.60
1	8j	51	ASP	CA-C-N	5.83	128.38	120.44
1	8j	51	ASP	C-N-CA	5.83	128.38	120.44
1	8E	5	ASN	CA-C-N	5.83	128.90	120.79
1	8E	5	ASN	C-N-CA	5.83	128.90	120.79
1	9t	156	GLY	CA-C-N	5.83	125.94	119.87
1	9t	156	GLY	C-N-CA	5.83	125.94	119.87
1	9y	151	LEU	CA-C-O	5.83	125.56	119.14
1	9A	226	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	9D	139	ASN	N-CA-C	5.83	117.64	111.28
1	a9	36	VAL	CA-C-O	5.83	126.81	120.57
1	aa	201	ILE	CA-C-O	-5.83	114.67	120.85
1	ac	77	ALA	N-CA-C	5.83	117.64	111.28
1	aQ	214	MET	N-CA-C	5.83	117.72	111.36
1	b6	96	MET	O-C-N	-5.83	116.37	122.96
1	17	121	ASN	CA-CB-CG	5.83	118.44	112.60
1	bi	47	ALA	N-CA-C	5.83	118.80	110.10
1	bC	94	GLY	O-C-N	-5.83	115.29	122.23
1	1a	228	ALA	CA-C-O	5.83	126.18	119.35
1	bN	92	GLU	O-C-N	5.83	125.93	121.85
1	cl	12	HIS	CA-C-N	5.83	132.21	121.94
1	cl	12	HIS	C-N-CA	5.83	132.21	121.94
1	1e	31	ALA	N-CA-C	5.83	119.40	111.17
1	cH	167	ARG	N-CA-C	5.83	117.64	111.28
1	cZ	49	PRO	CB-CA-C	5.83	121.19	111.56
1	dm	129	ILE	CA-CB-CG1	-5.83	100.48	110.40
1	dn	70	LYS	CA-C-N	5.83	128.03	120.44
1	dn	70	LYS	C-N-CA	5.83	128.03	120.44
1	1m	30	LYS	N-CA-C	5.83	120.52	113.17
1	e2	43	LEU	CA-C-N	5.83	131.36	122.37
1	e2	43	LEU	C-N-CA	5.83	131.36	122.37
1	e9	47	ALA	CA-C-O	5.83	127.74	121.44
1	ek	111	LEU	CA-C-O	5.83	126.68	119.97
1	em	193	ASN	OD1-CG-ND2	-5.83	116.77	122.60
1	eZ	195	ASN	N-CA-C	-5.83	102.03	110.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1x	187	GLU	O-C-N	-5.83	116.06	122.07
1	fU	143	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	fV	37	ILE	CA-C-O	-5.83	114.78	118.69
1	fW	113	GLU	N-CA-C	5.83	117.64	111.28
1	q	142	VAL	N-CA-CB	5.83	116.99	110.51
1	t	132	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	v	66	MET	N-CA-C	5.83	117.72	111.36
1	F	148	THR	O-C-N	-5.83	116.20	122.85
1	W	11	VAL	CA-C-N	5.83	131.05	123.00
1	W	11	VAL	C-N-CA	5.83	131.05	123.00
1	g8	98	GLU	CA-C-O	-5.83	113.72	119.49
1	gg	137	GLY	CA-C-N	5.83	128.10	120.28
1	gg	137	GLY	C-N-CA	5.83	128.10	120.28
1	gq	74	ASN	O-C-N	-5.83	116.02	122.09
1	gz	201	ILE	CA-C-N	5.83	128.37	120.38
1	gz	201	ILE	C-N-CA	5.83	128.37	120.38
1	h4	99	PRO	N-CA-C	5.83	119.61	110.80
1	h8	150	ILE	O-C-N	-5.83	116.21	121.87
1	ho	121	ASN	CA-CB-CG	-5.83	106.77	112.60
1	hI	101	GLY	CA-C-N	5.83	128.10	120.28
1	hI	101	GLY	C-N-CA	5.83	128.10	120.28
1	hI	207	PRO	N-CA-C	-5.83	108.61	114.68
1	hJ	135	ILE	N-CA-C	5.83	116.57	110.62
1	hP	196	PRO	CA-C-N	5.83	128.41	120.54
1	hP	196	PRO	C-N-CA	5.83	128.41	120.54
1	hS	4	GLN	N-CA-C	-5.83	100.43	109.24
1	hS	100	ARG	CD-NE-CZ	5.83	132.57	124.40
1	ie	84	HIS	N-CA-C	5.83	117.91	109.04
1	ih	176	GLN	O-C-N	-5.83	114.83	122.59
1	ij	94	GLY	O-C-N	-5.83	115.12	122.70
1	iO	152	ASP	CA-C-N	5.83	129.02	120.91
1	iO	152	ASP	C-N-CA	5.83	129.02	120.91
1	jb	45	GLU	N-CA-C	5.83	118.79	110.10
1	1U	26	VAL	O-C-N	-5.83	116.21	121.87
1	jd	203	LYS	CA-C-O	5.83	126.93	120.63
1	jj	141	ILE	CA-C-N	5.83	129.87	120.30
1	jj	141	ILE	C-N-CA	5.83	129.87	120.30
1	1V	162	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	jq	213	GLU	N-CA-C	-5.83	105.66	112.89
1	jL	95	GLN	OE1-CD-NE2	5.83	128.43	122.60
1	jP	165	VAL	N-CA-CB	5.83	118.47	110.54
1	kb	111	LEU	N-CA-CB	5.83	118.81	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kk	3	VAL	CB-CA-C	-5.83	103.44	111.49
1	kt	219	GLN	CA-CB-CG	5.83	125.77	114.10
1	kD	5	ASN	CA-C-N	5.83	130.41	122.07
1	kD	5	ASN	C-N-CA	5.83	130.41	122.07
1	23	108	THR	O-C-N	-5.83	115.13	122.19
1	kL	146	SER	CA-C-N	5.83	125.37	119.19
1	kL	146	SER	C-N-CA	5.83	125.37	119.19
1	kZ	33	SER	CA-C-N	5.83	126.24	119.47
1	kZ	33	SER	C-N-CA	5.83	126.24	119.47
1	la	112	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	lj	187	GLU	CB-CA-C	-5.83	101.72	110.88
1	lq	6	LEU	CA-C-N	5.83	129.18	120.31
1	lq	6	LEU	C-N-CA	5.83	129.18	120.31
1	ls	39	MET	CG-SD-CE	-5.83	88.07	100.90
1	lA	3	VAL	N-CA-C	5.83	117.56	109.45
1	lD	124	ILE	N-CA-C	-5.83	101.77	107.55
1	lD	200	THR	N-CA-C	5.83	117.64	111.28
1	lL	12	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	2a	5	ASN	CB-CA-C	5.83	120.51	109.37
1	2j	98	GLU	CA-C-O	-5.83	113.97	119.80
1	2q	89	GLY	CA-C-N	5.83	127.13	119.84
1	2q	89	GLY	C-N-CA	5.83	127.13	119.84
1	2x	50	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	2M	48	THR	CA-CB-OG1	5.83	118.35	109.60
1	2N	85	PRO	N-CA-C	5.83	124.49	112.47
1	2X	168	PHE	O-C-N	-5.83	116.06	122.07
1	3d	211	LEU	N-CA-CB	-5.83	101.55	110.12
1	3f	18	ARG	O-C-N	-5.83	116.06	122.07
1	3X	55	MET	N-CA-C	5.83	117.31	111.07
1	48	72	THR	CA-C-N	5.83	128.71	120.42
1	48	72	THR	C-N-CA	5.83	128.71	120.42
1	4c	142	VAL	CA-C-N	5.83	128.02	120.44
1	4c	142	VAL	C-N-CA	5.83	128.02	120.44
1	4m	67	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	4w	225	GLY	O-C-N	-5.83	116.64	123.17
1	4A	181	VAL	O-C-N	-5.83	115.82	121.83
1	5e	167	ARG	CA-C-N	5.83	128.02	120.44
1	5e	167	ARG	C-N-CA	5.83	128.02	120.44
1	5l	31	ALA	CA-C-N	5.83	130.17	122.30
1	5l	31	ALA	C-N-CA	5.83	130.17	122.30
1	5K	167	ARG	CB-CA-C	-5.83	101.11	110.79
1	63	7	GLN	OE1-CD-NE2	5.83	128.43	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	58	THR	OG1-CB-CG2	-5.83	97.64	109.30
1	6i	144	MET	CA-C-N	5.83	129.18	120.31
1	6i	144	MET	C-N-CA	5.83	129.18	120.31
1	6m	213	GLU	CA-C-O	5.83	126.73	120.55
1	6p	130	TYR	CA-CB-CG	5.83	124.40	113.90
1	6x	9	GLN	CA-C-N	5.83	129.12	120.95
1	6x	9	GLN	C-N-CA	5.83	129.12	120.95
1	6I	198	CYS	CA-C-N	5.83	128.37	120.38
1	6I	198	CYS	C-N-CA	5.83	128.37	120.38
1	7u	28	GLU	CA-C-O	-5.83	114.37	120.55
1	7y	116	GLY	O-C-N	-5.83	116.59	122.19
1	7A	47	ALA	CA-C-N	-5.83	112.58	121.92
1	7A	47	ALA	C-N-CA	-5.83	112.58	121.92
1	7X	155	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	7Y	91	ILE	CA-C-O	5.83	126.24	119.36
1	7Y	143	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	82	195	ASN	CB-CA-C	5.83	121.66	110.17
1	89	198	CYS	O-C-N	-5.83	115.94	122.12
1	8e	146	SER	CA-C-N	5.83	125.37	119.19
1	8e	146	SER	C-N-CA	5.83	125.37	119.19
1	8y	78	ALA	O-C-N	-5.83	115.94	122.12
1	8U	196	PRO	CA-C-N	5.83	128.57	120.29
1	8U	196	PRO	C-N-CA	5.83	128.57	120.29
1	98	37	ILE	O-C-N	-5.83	116.69	120.42
1	9c	75	GLU	N-CA-C	5.83	117.31	111.07
1	9l	182	LYS	N-CA-C	5.83	118.39	111.33
1	9t	97	ARG	N-CA-C	5.83	117.82	110.24
1	9t	164	TYR	O-C-N	-5.83	115.94	122.12
1	9w	220	GLY	O-C-N	-5.83	116.52	122.70
1	9z	161	PHE	CA-C-N	5.83	128.10	120.28
1	9z	161	PHE	C-N-CA	5.83	128.10	120.28
1	9I	159	GLU	CA-C-O	-5.83	114.81	119.71
1	9K	49	PRO	N-CA-CB	5.83	109.83	103.30
1	9R	195	ASN	CA-C-N	5.83	127.13	119.84
1	9R	195	ASN	C-N-CA	5.83	127.13	119.84
1	a9	170	LYS	CB-CA-C	5.83	120.14	110.81
1	ac	135	ILE	N-CA-C	5.83	116.57	110.62
1	al	80	TRP	CB-CA-C	5.83	120.47	110.79
1	al	157	PRO	CB-CA-C	5.83	120.70	111.31
1	am	144	MET	N-CA-C	5.83	120.12	112.89
1	aQ	212	GLU	O-C-N	-5.83	115.94	122.12
1	aS	197	ASP	O-C-N	-5.83	116.06	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	21	ASN	CA-C-N	5.83	128.02	120.44
1	ba	21	ASN	C-N-CA	5.83	128.02	120.44
1	bi	177	ALA	CA-C-O	-5.83	115.45	121.87
1	bx	134	ILE	CA-C-N	5.83	127.91	120.56
1	bx	134	ILE	C-N-CA	5.83	127.91	120.56
1	bG	198	CYS	N-CA-CB	5.83	118.47	110.01
1	bH	101	GLY	CA-C-O	5.83	126.76	120.75
1	bJ	113	GLU	N-CA-C	5.83	117.31	111.07
1	bP	180	GLU	CA-C-O	-5.83	114.66	120.90
1	c0	128	GLU	CA-C-N	5.83	127.91	120.56
1	c0	128	GLU	C-N-CA	5.83	127.91	120.56
1	c2	9	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	c4	20	LEU	CA-C-O	5.83	127.14	120.90
1	1c	173	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	cb	65	ALA	CA-C-O	-5.83	114.37	120.55
1	cj	194	ALA	N-CA-C	5.83	118.52	110.35
1	cs	110	THR	CA-C-N	5.83	132.68	121.54
1	cs	110	THR	C-N-CA	5.83	132.68	121.54
1	cJ	96	MET	N-CA-C	5.83	123.23	110.80
1	cQ	124	ILE	O-C-N	-5.83	117.41	121.55
1	d0	105	ALA	CA-C-O	5.83	126.34	119.28
1	1i	218	CYS	O-C-N	-5.83	116.95	123.48
1	d4	180	GLU	CA-C-O	5.83	126.60	120.42
1	db	98	GLU	O-C-N	-5.83	114.18	121.70
1	db	188	THR	CA-CB-OG1	5.83	118.35	109.60
1	dK	33	SER	N-CA-C	5.83	117.05	109.64
1	ec	192	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	en	112	GLN	CG-CD-NE2	5.83	125.15	116.40
1	eq	185	MET	N-CA-C	5.83	117.31	111.07
1	eG	53	ASN	CA-C-N	5.83	128.41	120.54
1	eG	53	ASN	C-N-CA	5.83	128.41	120.54
1	eG	142	VAL	O-C-N	-5.83	116.21	121.87
1	1v	222	GLY	N-CA-C	5.83	118.19	111.36
1	fe	55	MET	N-CA-C	5.83	117.64	111.28
1	fl	230	VAL	CA-C-O	5.83	127.41	121.58
1	fI	147	PRO	N-CA-CB	5.83	109.50	103.38
1	fZ	87	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	g0	115	ILE	CB-CA-C	5.83	120.02	112.14
1	1B	103	ASP	O-C-N	-5.83	115.50	122.15
1	b	63	GLN	CA-C-O	5.83	126.94	120.82
1	d	183	ASN	O-C-N	-5.83	116.06	122.07
1	n	180	GLU	CA-C-O	5.83	126.69	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	130	TYR	CA-C-O	5.83	126.94	120.82
1	g9	12	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	gf	134	ILE	CA-C-N	5.83	128.75	120.53
1	gf	134	ILE	C-N-CA	5.83	128.75	120.53
1	gl	100	ARG	CA-C-N	5.83	126.58	119.99
1	gl	100	ARG	C-N-CA	5.83	126.58	119.99
1	gr	98	GLU	CB-CG-CD	5.83	122.51	112.60
1	1F	52	LEU	CA-C-O	-5.83	114.70	120.82
1	hc	31	ALA	N-CA-C	5.83	117.64	111.28
1	hn	62	HIS	CB-CG-CD2	-5.83	123.62	131.20
1	hn	166	ASP	CA-CB-CG	5.83	118.43	112.60
1	hs	82	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	hy	152	ASP	O-C-N	-5.83	114.13	122.41
1	hJ	96	MET	CG-SD-CE	-5.83	88.07	100.90
1	hU	82	ARG	N-CA-CB	5.83	118.47	110.01
1	i8	143	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	ig	136	LEU	N-CA-C	5.83	117.64	111.28
1	ih	23	TRP	CA-C-O	5.83	126.94	120.82
1	il	194	ALA	CA-C-O	5.83	128.85	120.51
1	io	202	LEU	N-CA-C	5.83	118.42	111.71
1	ir	166	ASP	O-C-N	-5.83	115.50	122.15
1	ix	162	ARG	NE-CZ-NH1	-5.83	115.67	121.50
1	iC	177	ALA	CA-C-O	-5.83	115.12	120.95
1	iD	170	LYS	CA-C-N	5.83	128.37	120.44
1	iD	170	LYS	C-N-CA	5.83	128.37	120.44
1	1S	18	ARG	NE-CZ-NH2	5.83	124.45	119.20
1	iW	99	PRO	CA-C-O	-5.83	114.99	121.23
1	j7	220	GLY	O-C-N	-5.83	115.62	122.50
1	jk	216	THR	N-CA-CB	5.83	118.47	110.01
1	jF	217	ALA	N-CA-C	5.83	118.46	110.24
1	jG	72	THR	CA-C-N	5.83	128.45	120.46
1	jG	72	THR	C-N-CA	5.83	128.45	120.46
1	jW	54	THR	CA-C-N	5.83	128.35	120.65
1	jW	54	THR	C-N-CA	5.83	128.35	120.65
1	k3	143	ARG	O-C-N	5.83	128.30	122.12
1	k7	138	LEU	CA-C-N	5.83	128.02	120.44
1	k7	138	LEU	C-N-CA	5.83	128.02	120.44
1	ka	84	HIS	CA-CB-CG	5.83	119.63	113.80
1	ko	111	LEU	CA-C-O	5.83	126.73	120.55
1	kq	229	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	kw	80	TRP	N-CA-C	-5.83	105.00	111.36
1	kA	97	ARG	NH1-CZ-NH2	-5.83	111.72	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	170	LYS	CA-C-O	5.83	126.60	120.42
1	kU	88	ALA	N-CA-C	5.83	118.52	110.35
1	kV	193	ASN	CA-C-O	-5.83	112.78	119.60
1	l3	121	ASN	CB-CA-C	5.83	117.94	110.13
1	ld	81	ASP	CA-C-N	5.83	128.09	120.28
1	ld	81	ASP	C-N-CA	5.83	128.09	120.28
1	lq	40	PHE	N-CA-C	5.83	117.64	111.28
1	2a	168	PHE	N-CA-C	5.83	117.31	111.07
1	lO	68	MET	CA-C-N	5.83	128.09	120.28
1	lO	68	MET	C-N-CA	5.83	128.09	120.28
1	2j	52	LEU	CA-C-N	5.83	128.41	120.54
1	2j	52	LEU	C-N-CA	5.83	128.41	120.54
1	2o	55	MET	CA-C-N	5.83	128.09	120.28
1	2o	55	MET	C-N-CA	5.83	128.09	120.28
1	2o	183	ASN	CA-CB-CG	-5.83	106.77	112.60
1	2M	126	VAL	CA-CB-CG1	5.83	120.31	110.40
1	2S	30	LYS	O-C-N	-5.83	115.75	121.93
1	2X	172	LEU	O-C-N	-5.83	115.94	122.12
1	3k	154	ARG	O-C-N	-5.83	116.60	123.25
1	3o	132	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	3p	137	GLY	O-C-N	-5.83	116.59	122.19
1	3t	148	THR	CA-C-O	-5.83	114.30	121.06
1	3E	83	LEU	CA-C-O	5.83	126.71	120.24
1	3G	62	HIS	N-CA-CB	5.83	120.33	111.70
1	3H	15	ILE	N-CA-CB	5.83	120.85	111.23
1	3M	141	ILE	CA-C-O	5.83	126.64	119.58
1	42	182	LYS	CA-C-O	5.83	126.60	120.42
1	4h	173	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	4q	74	ASN	CA-C-N	5.83	128.09	120.28
1	4q	74	ASN	C-N-CA	5.83	128.09	120.28
1	4r	192	GLN	N-CA-C	5.83	117.44	111.14
1	4y	151	LEU	N-CA-C	5.83	118.42	111.71
1	4z	69	LEU	N-CA-C	5.83	117.31	111.07
1	4E	117	TRP	CB-CG-CD2	-5.83	118.64	126.80
1	4H	48	THR	CA-C-N	5.83	125.97	119.32
1	4H	48	THR	C-N-CA	5.83	125.97	119.32
1	4L	200	THR	N-CA-C	5.83	117.64	111.28
1	50	228	ALA	N-CA-CB	5.83	120.34	110.49
1	5i	62	HIS	ND1-CG-CD2	5.83	111.93	106.10
1	5D	44	SER	O-C-N	-5.83	114.83	122.59
1	5E	96	MET	N-CA-C	-5.83	101.85	110.48
1	5Q	29	GLU	N-CA-C	5.83	121.27	114.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	65	62	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	6i	90	PRO	N-CD-CG	5.83	111.95	103.20
1	6p	36	VAL	CA-CB-CG2	-5.83	100.49	110.40
1	6y	229	ARG	NE-CZ-NH2	5.83	124.45	119.20
1	6G	220	GLY	CA-C-N	5.83	129.92	121.52
1	6G	220	GLY	C-N-CA	5.83	129.92	121.52
1	6M	76	GLU	N-CA-C	5.83	118.58	111.82
1	6N	130	TYR	CA-C-N	5.83	129.57	120.82
1	6N	130	TYR	C-N-CA	5.83	129.57	120.82
1	71	89	GLY	N-CA-C	-5.83	105.00	112.00
1	7l	20	LEU	O-C-N	-5.83	116.06	122.07
1	7n	203	LYS	CA-C-O	5.83	126.12	119.18
1	7s	127	GLY	CA-C-N	5.83	128.09	120.28
1	7s	127	GLY	C-N-CA	5.83	128.09	120.28
1	7G	160	PRO	N-CA-C	5.83	121.50	113.98
1	87	96	MET	N-CA-C	5.83	118.42	110.55
1	8m	61	GLY	O-C-N	-5.83	116.58	122.59
1	8x	162	ARG	O-C-N	-5.83	115.94	122.12
1	8D	112	GLN	N-CA-C	5.83	118.42	111.71
1	8F	178	SER	CA-C-N	5.83	128.37	120.38
1	8F	178	SER	C-N-CA	5.83	128.37	120.38
1	97	154	ARG	NE-CZ-NH2	5.83	124.45	119.20
1	9g	177	ALA	CA-C-N	5.83	129.56	120.75
1	9g	177	ALA	C-N-CA	5.83	129.56	120.75
1	9k	94	GLY	N-CA-C	-5.83	107.19	115.30
1	9y	217	ALA	N-CA-C	5.83	119.05	110.59
1	9C	8	GLY	N-CA-C	5.83	122.50	114.92
1	9N	146	SER	CA-C-O	-5.83	112.79	119.32
1	9W	185	MET	O-C-N	-5.83	115.94	122.12
1	a7	80	TRP	N-CA-C	5.83	117.64	111.28
1	10	154	ARG	O-C-N	-5.83	116.39	123.10
1	ak	97	ARG	O-C-N	-5.83	115.93	122.75
1	aA	7	GLN	N-CA-C	-5.83	103.74	111.96
1	b7	49	PRO	O-C-N	5.83	128.95	122.24
1	18	65	ALA	CA-C-N	5.83	128.09	120.28
1	18	65	ALA	C-N-CA	5.83	128.09	120.28
1	bC	100	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	bJ	68	MET	CA-C-N	5.83	128.02	120.44
1	bJ	68	MET	C-N-CA	5.83	128.02	120.44
1	bP	55	MET	CA-C-N	5.83	128.02	120.44
1	bP	55	MET	C-N-CA	5.83	128.02	120.44
1	cb	217	ALA	N-CA-C	5.83	118.72	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cg	120	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	cj	120	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	cl	31	ALA	N-CA-C	5.83	117.93	108.08
1	cz	196	PRO	CA-C-N	5.83	128.02	120.44
1	cz	196	PRO	C-N-CA	5.83	128.02	120.44
1	cH	63	GLN	O-C-N	-5.83	114.41	122.46
1	1g	100	ARG	N-CA-C	-5.83	103.01	110.53
1	cV	175	GLU	CA-C-N	5.83	131.92	121.66
1	cV	175	GLU	C-N-CA	5.83	131.92	121.66
1	d5	35	GLU	CA-C-O	5.83	126.63	119.05
1	dI	132	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	dL	229	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	dU	173	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	dV	40	PHE	CA-C-N	5.83	128.02	120.44
1	dV	40	PHE	C-N-CA	5.83	128.02	120.44
1	e1	103	ASP	CA-C-N	5.83	127.91	120.56
1	e1	103	ASP	C-N-CA	5.83	127.91	120.56
1	e6	149	SER	N-CA-C	5.83	119.22	109.95
1	e7	62	HIS	CB-CG-CD2	-5.83	123.62	131.20
1	em	120	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	ev	190	LEU	N-CA-C	5.83	117.72	111.36
1	1r	108	THR	CA-C-O	5.83	126.26	119.32
1	ey	87	HIS	O-C-N	-5.83	116.13	123.01
1	eB	90	PRO	O-C-N	5.83	130.09	123.03
1	eH	142	VAL	CA-C-N	5.83	128.57	120.29
1	eH	142	VAL	C-N-CA	5.83	128.57	120.29
1	eQ	217	ALA	N-CA-C	5.83	118.23	110.53
1	f3	99	PRO	CA-C-N	5.83	132.86	121.66
1	f3	99	PRO	C-N-CA	5.83	132.86	121.66
1	f7	143	ARG	N-CA-C	5.83	118.42	111.71
1	f9	201	ILE	O-C-N	-5.83	116.21	121.87
1	fl	57	ASN	CA-C-N	5.83	131.67	122.11
1	fl	57	ASN	C-N-CA	5.83	131.67	122.11
1	fn	112	GLN	CA-C-N	5.83	128.09	120.28
1	fn	112	GLN	C-N-CA	5.83	128.09	120.28
1	fq	91	ILE	CA-C-N	5.83	128.77	120.49
1	fq	91	ILE	C-N-CA	5.83	128.77	120.49
1	fs	19	THR	OG1-CB-CG2	-5.83	97.64	109.30
1	fu	27	VAL	O-C-N	-5.83	115.98	121.87
1	fw	47	ALA	O-C-N	-5.83	116.57	123.22
1	fw	219	GLN	N-CA-C	5.83	118.71	109.96
1	fH	50	GLN	CA-CB-CG	5.83	125.76	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g0	154	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	g	89	GLY	O-C-N	-5.83	115.94	121.77
1	g	209	ALA	CA-C-O	5.83	127.25	120.49
1	o	142	VAL	N-CA-C	5.83	116.02	110.42
1	z	214	MET	CA-C-N	5.83	128.37	120.44
1	z	214	MET	C-N-CA	5.83	128.37	120.44
1	G	23	TRP	CB-CG-CD1	-5.83	118.15	126.90
1	G	228	ALA	O-C-N	-5.83	116.28	123.33
1	K	182	LYS	CA-C-O	5.83	126.60	120.42
1	R	130	TYR	CB-CG-CD2	5.83	129.55	120.80
1	W	93	PRO	O-C-N	-5.83	114.77	122.64
1	X	149	SER	N-CA-C	5.83	117.82	110.24
1	gb	188	THR	CA-C-O	5.83	126.67	119.79
1	gB	112	GLN	CA-C-N	5.83	128.68	120.28
1	gB	112	GLN	C-N-CA	5.83	128.68	120.28
1	gN	218	CYS	O-C-N	-5.83	115.58	122.58
1	1K	198	CYS	O-C-N	-5.83	115.50	122.15
1	hB	33	SER	N-CA-C	-5.83	102.88	108.07
1	i0	198	CYS	CA-C-N	5.83	128.02	120.44
1	i0	198	CYS	C-N-CA	5.83	128.02	120.44
1	in	108	THR	CA-C-O	5.83	126.38	119.56
1	iW	40	PHE	O-C-N	-5.83	115.50	122.15
1	jI	156	GLY	O-C-N	-5.83	115.94	121.77
1	jK	119	THR	CA-C-O	5.83	126.12	119.18
1	jN	42	ALA	N-CA-C	5.83	117.64	111.28
1	jW	70	LYS	N-CA-C	5.83	118.38	111.33
1	k2	178	SER	CA-C-N	5.83	128.41	120.54
1	k2	178	SER	C-N-CA	5.83	128.41	120.54
1	k4	152	ASP	CA-CB-CG	5.83	118.43	112.60
1	kb	134	ILE	N-CA-C	5.83	116.48	110.36
1	kL	152	ASP	CA-CB-CG	-5.83	106.77	112.60
1	kO	142	VAL	CA-C-N	5.83	128.02	120.44
1	kO	142	VAL	C-N-CA	5.83	128.02	120.44
1	2N	89	GLY	CA-C-N	5.83	127.13	119.84
1	2N	89	GLY	C-N-CA	5.83	127.13	119.84
1	2Y	177	ALA	N-CA-C	5.83	118.68	110.23
1	3l	125	PRO	N-CD-CG	5.83	111.94	103.20
1	3S	33	SER	N-CA-CB	5.83	117.30	111.29
1	3U	121	ASN	CA-C-O	5.83	124.14	119.59
1	4M	85	PRO	N-CA-C	5.83	124.48	112.47
1	4T	25	LYS	N-CA-C	5.83	117.31	111.07
1	53	227	LYS	CA-C-N	5.83	129.12	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	53	227	LYS	C-N-CA	5.83	129.12	120.90
1	5c	195	ASN	CA-CB-CG	5.83	118.43	112.60
1	6f	131	LYS	CA-C-N	5.83	128.02	120.44
1	6f	131	LYS	C-N-CA	5.83	128.02	120.44
1	6g	26	VAL	CB-CA-C	-5.83	104.17	112.22
1	70	163	ASP	CA-CB-CG	5.83	118.43	112.60
1	79	27	VAL	CA-C-N	5.83	128.41	120.54
1	79	27	VAL	C-N-CA	5.83	128.41	120.54
1	7J	128	GLU	CA-C-N	5.83	128.45	120.46
1	7J	128	GLU	C-N-CA	5.83	128.45	120.46
1	7K	75	GLU	N-CA-C	5.83	117.63	111.28
1	7K	163	ASP	CA-CB-CG	5.83	118.43	112.60
1	8d	120	HIS	CB-CG-ND1	5.83	131.44	122.70
1	8t	45	GLU	N-CA-CB	5.83	118.72	109.51
1	9y	89	GLY	CA-C-N	5.83	125.84	119.89
1	9y	89	GLY	C-N-CA	5.83	125.84	119.89
1	ag	183	ASN	O-C-N	-5.83	115.94	122.12
1	aq	39	MET	CA-C-N	5.83	128.02	120.44
1	aq	39	MET	C-N-CA	5.83	128.02	120.44
1	ar	142	VAL	CA-C-O	-5.83	114.99	121.17
1	av	167	ARG	N-CA-C	5.83	117.64	111.28
1	aZ	53	ASN	CA-C-O	-5.83	114.37	120.55
1	cz	4	GLN	CA-C-O	5.83	127.57	120.92
1	cz	184	TRP	CB-CG-CD2	-5.83	118.64	126.80
1	di	29	GLU	N-CA-C	5.83	117.50	111.03
1	1o	222	GLY	O-C-N	-5.83	116.81	122.87
1	eg	37	ILE	O-C-N	5.83	124.21	120.07
1	f6	37	ILE	CA-C-N	5.83	125.37	119.19
1	f6	37	ILE	C-N-CA	5.83	125.37	119.19
1	1v	136	LEU	N-CA-C	5.83	117.63	111.28
1	fp	159	GLU	CA-C-N	5.83	126.74	119.98
1	fp	159	GLU	C-N-CA	5.83	126.74	119.98
1	fv	177	ALA	N-CA-C	5.83	117.58	110.41
1	fK	197	ASP	CA-CB-CG	-5.83	106.77	112.60
1	1A	91	ILE	N-CA-C	-5.83	99.48	107.99
1	e	207	PRO	O-C-N	-5.83	114.77	122.64
1	i	70	LYS	N-CA-C	5.83	118.11	111.11
1	2	202	LEU	CA-C-N	5.83	128.09	120.28
1	2	202	LEU	C-N-CA	5.83	128.09	120.28
1	v	163	ASP	CA-CB-CG	-5.83	106.77	112.60
1	y	111	LEU	CA-C-N	5.83	128.02	120.44
1	y	111	LEU	C-N-CA	5.83	128.02	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	12	HIS	CA-CB-CG	5.83	119.63	113.80
1	1C	69	LEU	N-CA-CB	-5.83	101.55	110.12
1	gm	169	TYR	CA-CB-CG	-5.83	103.41	113.90
1	gJ	111	LEU	CA-C-O	-5.83	114.37	120.55
1	h8	104	ILE	N-CA-C	5.83	116.56	110.62
1	ht	121	ASN	CA-CB-CG	5.83	118.43	112.60
1	hL	178	SER	N-CA-C	5.83	117.82	110.24
1	i3	186	THR	N-CA-CB	5.83	118.79	110.16
1	iv	130	TYR	CA-C-N	5.83	128.41	120.54
1	iv	130	TYR	C-N-CA	5.83	128.41	120.54
1	iv	199	LYS	CA-C-N	5.83	128.37	120.38
1	iv	199	LYS	C-N-CA	5.83	128.37	120.38
1	iB	42	ALA	CB-CA-C	5.83	120.47	110.79
1	iG	197	ASP	O-C-N	-5.83	116.07	122.07
1	1R	96	MET	O-C-N	-5.83	116.40	123.16
1	iJ	202	LEU	CA-C-N	5.83	128.67	120.28
1	iJ	202	LEU	C-N-CA	5.83	128.67	120.28
1	iP	119	THR	CA-C-N	5.83	129.55	120.75
1	iP	119	THR	C-N-CA	5.83	129.55	120.75
1	jc	176	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	jh	89	GLY	CA-C-O	-5.83	113.19	121.52
1	jj	19	THR	O-C-N	-5.83	115.94	122.12
1	jp	181	VAL	CA-C-O	5.83	127.01	120.95
1	js	12	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	js	82	ARG	O-C-N	-5.83	116.07	122.07
1	jD	207	PRO	N-CD-CG	5.83	111.94	103.20
1	jH	79	GLU	N-CA-C	5.83	117.63	111.28
1	jV	97	ARG	N-CA-C	5.83	117.82	110.24
1	jW	183	ASN	OD1-CG-ND2	5.83	128.43	122.60
1	1Z	139	ASN	CB-CA-C	-5.83	101.11	110.79
1	k1	71	GLU	O-C-N	-5.83	115.94	122.12
1	k2	62	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	k7	193	ASN	O-C-N	-5.83	115.34	122.34
1	kE	202	LEU	N-CA-C	5.83	117.63	111.28
1	kZ	78	ALA	N-CA-C	5.83	117.63	111.28
1	lm	25	LYS	CA-C-N	5.83	128.12	120.60
1	lm	25	LYS	C-N-CA	5.83	128.12	120.60
1	ln	139	ASN	CA-C-O	-5.83	114.66	120.90
1	lp	229	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	lC	22	ALA	CA-C-O	5.83	126.73	120.55
1	2a	167	ARG	O-C-N	-5.83	116.07	122.07
1	2s	211	LEU	CB-CA-C	5.83	120.46	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	117	TRP	N-CA-C	5.83	118.10	111.11
1	2S	229	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	3d	9	GLN	CA-C-O	5.83	128.04	120.81
1	4A	197	ASP	CA-C-O	-5.83	114.37	120.55
1	4B	139	ASN	N-CA-C	5.83	118.41	111.71
1	4G	166	ASP	CA-CB-CG	-5.83	106.77	112.60
1	4K	223	GLY	CA-C-N	5.83	127.12	119.84
1	4K	223	GLY	C-N-CA	5.83	127.12	119.84
1	4X	18	ARG	N-CA-C	5.83	117.63	111.28
1	51	39	MET	N-CA-C	5.83	118.11	111.11
1	53	184	TRP	N-CA-C	5.83	117.31	111.07
1	5s	217	ALA	N-CA-C	5.83	119.04	110.30
1	5N	166	ASP	O-C-N	-5.83	115.94	122.12
1	5P	69	LEU	N-CA-C	5.83	118.11	111.11
1	6a	50	GLN	CA-C-O	5.83	126.67	119.97
1	6h	163	ASP	N-CA-C	5.83	118.38	111.33
1	6u	158	LYS	O-C-N	-5.83	115.31	122.25
1	6x	102	SER	CA-C-O	5.83	126.69	120.10
1	6y	199	LYS	N-CA-C	5.83	117.63	111.28
1	6B	50	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	6D	84	HIS	CA-C-O	-5.83	114.46	119.36
1	6E	150	ILE	CA-CB-CG1	5.83	120.31	110.40
1	6F	81	ASP	O-C-N	-5.83	115.94	122.12
1	6R	139	ASN	CA-C-N	5.83	128.09	120.28
1	6R	139	ASN	C-N-CA	5.83	128.09	120.28
1	6V	173	ARG	O-C-N	-5.83	115.94	122.12
1	7d	81	ASP	CA-CB-CG	5.83	118.43	112.60
1	7g	13	GLN	CG-CD-NE2	-5.83	107.66	116.40
1	7h	106	GLY	O-C-N	-5.83	114.78	122.42
1	7r	166	ASP	CA-C-N	5.83	128.02	120.44
1	7r	166	ASP	C-N-CA	5.83	128.02	120.44
1	7s	144	MET	O-C-N	-5.83	115.40	122.22
1	7v	61	GLY	CA-C-O	-5.83	116.23	122.76
1	7w	103	ASP	CA-C-N	5.83	128.44	120.46
1	7w	103	ASP	C-N-CA	5.83	128.44	120.46
1	7y	4	GLN	CB-CA-C	5.83	122.08	111.06
1	7E	123	PRO	CA-C-O	-5.83	114.89	122.12
1	7H	226	HIS	O-C-N	-5.83	115.98	122.86
1	7R	177	ALA	O-C-N	-5.83	114.84	122.59
1	80	223	GLY	O-C-N	-5.83	115.94	121.77
1	8B	26	VAL	CA-C-O	-5.83	113.95	120.25
1	8R	15	ILE	O-C-N	-5.83	117.14	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	212	GLU	CA-C-N	5.83	128.56	120.29
1	8W	212	GLU	C-N-CA	5.83	128.56	120.29
1	8Z	9	GLN	N-CA-C	5.83	118.68	110.23
1	9f	226	HIS	N-CA-C	5.83	118.81	110.24
1	9g	118	MET	CA-C-O	5.83	126.17	119.35
1	9s	195	ASN	CA-C-N	5.83	125.97	119.32
1	9s	195	ASN	C-N-CA	5.83	125.97	119.32
1	9Q	67	GLN	O-C-N	-5.83	115.94	122.12
1	aa	32	PHE	N-CA-CB	5.83	119.37	109.87
1	ab	133	TRP	N-CA-C	5.83	117.63	111.28
1	ae	84	HIS	N-CA-C	5.83	117.90	109.04
1	av	53	ASN	CA-C-N	5.83	128.09	120.28
1	av	53	ASN	C-N-CA	5.83	128.09	120.28
1	aw	200	THR	CA-C-N	5.83	129.88	120.55
1	aw	200	THR	C-N-CA	5.83	129.88	120.55
1	ax	206	GLY	O-C-N	-5.83	115.94	121.77
1	16	146	SER	CA-C-N	5.83	125.37	119.19
1	16	146	SER	C-N-CA	5.83	125.37	119.19
1	ba	213	GLU	O-C-N	-5.83	115.94	122.12
1	be	195	ASN	CA-C-N	5.83	125.97	119.32
1	be	195	ASN	C-N-CA	5.83	125.97	119.32
1	bs	227	LYS	O-C-N	-5.83	116.39	123.27
1	bP	42	ALA	N-CA-CB	-5.83	101.55	110.12
1	bX	98	GLU	CA-C-N	5.83	125.76	119.76
1	bX	98	GLU	C-N-CA	5.83	125.76	119.76
1	ci	34	PRO	CB-CA-C	5.83	116.53	110.00
1	cm	53	ASN	CA-C-N	5.83	128.09	120.28
1	cm	53	ASN	C-N-CA	5.83	128.09	120.28
1	cE	79	GLU	N-CA-C	5.83	117.63	111.28
1	cM	97	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	cT	206	GLY	O-C-N	-5.83	115.94	121.77
1	cT	214	MET	N-CA-C	5.83	117.63	111.28
1	d8	51	ASP	O-C-N	5.83	128.79	122.15
1	dm	32	PHE	N-CA-C	-5.83	105.48	112.59
1	1l	47	ALA	CA-C-O	-5.83	114.05	120.69
1	dy	91	ILE	N-CA-C	5.83	118.02	109.63
1	dB	201	ILE	N-CA-C	5.83	116.57	110.62
1	dC	181	VAL	CA-C-N	5.83	128.09	120.28
1	dC	181	VAL	C-N-CA	5.83	128.09	120.28
1	dE	77	ALA	CA-C-N	5.83	128.02	120.44
1	dE	77	ALA	C-N-CA	5.83	128.02	120.44
1	dR	79	GLU	CA-C-O	-5.83	113.27	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1n	226	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	dX	10	MET	N-CA-C	5.83	119.27	110.64
1	ee	178	SER	CA-CB-OG	5.83	122.75	111.10
1	es	186	THR	N-CA-C	5.83	117.31	111.07
1	ex	51	ASP	CA-CB-CG	-5.83	106.77	112.60
1	eQ	182	LYS	CA-C-O	5.83	126.67	119.79
1	eX	128	GLU	O-C-N	-5.83	115.94	122.12
1	f0	159	GLU	O-C-N	-5.83	116.24	121.31
1	f1	174	ALA	N-CA-C	5.83	117.31	111.07
1	f2	135	ILE	CA-C-N	5.83	128.89	120.79
1	f2	135	ILE	C-N-CA	5.83	128.89	120.79
1	1w	214	MET	N-CA-C	5.83	118.13	111.02
1	fp	212	GLU	N-CA-C	5.83	118.10	111.11
1	fz	215	MET	N-CA-C	5.83	117.63	111.28
1	fC	58	THR	N-CA-C	5.83	118.41	111.71
1	fD	194	ALA	O-C-N	-5.83	116.14	122.79
1	fN	17	PRO	CB-CA-C	5.83	120.19	111.68
1	1A	133	TRP	N-CA-C	5.83	118.10	111.11
1	0	8	GLY	O-C-N	-5.83	115.36	122.30
1	v	142	VAL	CA-C-N	5.83	128.09	120.28
1	v	142	VAL	C-N-CA	5.83	128.09	120.28
1	A	41	SER	O-C-N	5.83	128.07	122.07
1	P	33	SER	O-C-N	-5.83	116.18	121.66
1	U	21	ASN	OD1-CG-ND2	-5.83	116.77	122.60
1	gh	18	ARG	CA-C-N	5.83	128.09	120.28
1	gh	18	ARG	C-N-CA	5.83	128.09	120.28
1	hx	151	LEU	CA-C-N	5.83	128.56	120.29
1	hx	151	LEU	C-N-CA	5.83	128.56	120.29
1	hY	218	CYS	CA-C-O	5.83	128.03	120.81
1	i7	2	ILE	N-CA-C	5.83	117.59	109.55
1	iB	138	LEU	CA-C-O	-5.83	114.70	120.70
1	iC	165	VAL	N-CA-C	5.83	116.56	110.62
1	1R	104	ILE	CA-C-O	5.83	126.76	120.47
1	iL	181	VAL	CA-C-N	5.83	128.41	120.54
1	iL	181	VAL	C-N-CA	5.83	128.41	120.54
1	iY	186	THR	CA-CB-CG2	5.83	120.41	110.50
1	j7	30	LYS	O-C-N	-5.83	115.32	122.25
1	ja	177	ALA	N-CA-CB	5.83	119.31	110.45
1	jb	55	MET	O-C-N	5.83	128.07	122.07
1	jn	62	HIS	CA-C-O	5.83	128.33	121.40
1	jv	34	PRO	CA-C-N	5.83	128.36	120.38
1	jv	34	PRO	C-N-CA	5.83	128.36	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	48	THR	CA-C-O	-5.83	112.88	121.27
1	jA	36	VAL	O-C-N	-5.83	116.22	121.87
1	jE	184	TRP	CD2-CE2-CZ2	-5.83	116.57	122.40
1	1X	120	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	jN	143	ARG	N-CA-C	5.83	117.43	111.14
1	kA	104	ILE	CB-CA-C	-5.83	104.51	111.97
1	25	111	LEU	CA-C-N	5.83	128.09	120.28
1	25	111	LEU	C-N-CA	5.83	128.09	120.28
1	lH	126	VAL	N-CA-C	5.83	116.56	110.62
1	2A	103	ASP	CA-CB-CG	5.83	118.43	112.60
1	2S	167	ARG	NE-CZ-NH2	-5.83	113.96	119.20
1	4j	69	LEU	CA-C-N	5.83	128.56	120.29
1	4j	69	LEU	C-N-CA	5.83	128.56	120.29
1	4m	179	GLN	CA-C-O	5.83	126.60	120.42
1	4t	73	ILE	O-C-N	-5.83	116.22	121.87
1	4t	120	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	4x	25	LYS	CA-C-O	5.83	127.12	121.00
1	4P	221	VAL	O-C-N	-5.83	116.33	122.68
1	4R	40	PHE	CA-CB-CG	5.83	119.63	113.80
1	5m	186	THR	N-CA-C	5.83	117.31	111.07
1	5s	162	ARG	CB-CG-CD	5.83	124.70	111.30
1	5A	229	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	5T	104	ILE	CB-CA-C	-5.83	104.27	112.14
1	5V	229	ARG	NE-CZ-NH2	-5.83	113.96	119.20
1	6s	33	SER	N-CA-C	-5.83	102.97	108.22
1	6P	26	VAL	N-CA-C	5.83	116.01	110.42
1	72	149	SER	CA-C-N	5.83	129.68	120.47
1	72	149	SER	C-N-CA	5.83	129.68	120.47
1	7p	173	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
1	7N	191	VAL	N-CA-C	5.83	116.48	110.36
1	7Q	10	MET	N-CA-C	5.83	123.21	110.80
1	8n	82	ARG	CA-C-O	5.83	126.60	120.42
1	8X	73	ILE	CB-CA-C	-5.83	104.51	111.97
1	8Z	156	GLY	O-C-N	-5.83	115.94	121.77
1	9h	140	LYS	N-CA-C	5.83	117.30	111.07
1	9W	177	ALA	N-CA-C	5.83	123.21	110.80
1	9Z	229	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	a5	74	ASN	O-C-N	-5.83	116.03	122.09
1	aG	12	HIS	CE1-NE2-CD2	-5.83	103.17	109.00
1	bj	185	MET	O-C-N	-5.83	115.94	122.12
1	19	82	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	c3	120	HIS	CG-CD2-NE2	5.83	113.03	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1f	87	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	cZ	77	ALA	N-CA-C	5.83	117.63	111.28
1	df	112	GLN	CA-C-N	5.83	128.02	120.44
1	df	112	GLN	C-N-CA	5.83	128.02	120.44
1	dI	12	HIS	O-C-N	-5.83	115.61	123.19
1	dP	67	GLN	O-C-N	-5.83	115.94	122.12
1	e2	229	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	eh	41	SER	CA-C-N	5.83	128.56	120.29
1	eh	41	SER	C-N-CA	5.83	128.56	120.29
1	ej	61	GLY	O-C-N	-5.83	115.12	122.70
1	eu	185	MET	CG-SD-CE	-5.83	88.08	100.90
1	eB	184	TRP	CE3-CZ3-CH2	-5.83	113.52	121.10
1	eP	200	THR	CA-C-O	-5.83	114.37	120.55
1	eQ	22	ALA	O-C-N	-5.83	116.03	122.09
1	fq	112	GLN	N-CA-C	5.83	117.63	111.28
1	fw	153	ILE	N-CA-CB	5.83	117.94	110.13
1	fF	3	VAL	O-C-N	-5.83	116.44	123.02
1	fM	150	ILE	N-CA-CB	5.83	118.47	110.54
1	fW	72	THR	CA-C-N	5.83	127.90	120.56
1	fW	72	THR	C-N-CA	5.83	127.90	120.56
1	g0	163	ASP	CA-C-N	5.83	128.09	120.28
1	g0	163	ASP	C-N-CA	5.83	128.09	120.28
1	g2	126	VAL	CA-C-N	5.83	126.29	119.94
1	g2	126	VAL	C-N-CA	5.83	126.29	119.94
1	d	90	PRO	CA-C-N	5.83	130.28	121.65
1	d	90	PRO	C-N-CA	5.83	130.28	121.65
1	x	123	PRO	CA-C-O	-5.83	114.67	121.95
1	Q	185	MET	N-CA-C	5.83	119.21	111.75
1	1C	53	ASN	OD1-CG-ND2	-5.83	116.78	122.60
1	gq	48	THR	CA-C-N	5.83	127.12	119.84
1	gq	48	THR	C-N-CA	5.83	127.12	119.84
1	gu	216	THR	CA-C-N	5.83	132.39	122.37
1	gu	216	THR	C-N-CA	5.83	132.39	122.37
1	gI	115	ILE	N-CA-C	5.83	116.56	110.62
1	gY	206	GLY	CA-C-N	5.83	125.30	119.24
1	gY	206	GLY	C-N-CA	5.83	125.30	119.24
1	hn	95	GLN	CA-C-N	5.83	129.14	120.87
1	hn	95	GLN	C-N-CA	5.83	129.14	120.87
1	hn	111	LEU	CA-C-N	5.83	128.01	120.44
1	hn	111	LEU	C-N-CA	5.83	128.01	120.44
1	hp	109	SER	O-C-N	-5.83	116.49	123.31
1	hs	23	TRP	CD2-CE2-CZ2	-5.83	116.57	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hE	138	LEU	N-CA-C	5.83	117.63	111.28
1	hF	37	ILE	CA-C-O	-5.83	114.79	118.69
1	hG	139	ASN	CA-CB-CG	-5.83	106.78	112.60
1	i9	82	ARG	NH1-CZ-NH2	-5.83	111.73	119.30
1	ic	64	ALA	CB-CA-C	-5.83	100.95	110.85
1	iM	202	LEU	N-CA-CB	5.83	118.78	110.16
1	iP	121	ASN	OD1-CG-ND2	-5.83	116.77	122.60
1	iW	105	ALA	N-CA-CB	-5.83	102.02	110.47
1	1U	192	GLN	N-CA-CB	5.83	119.61	110.46
1	jZ	62	HIS	CG-CD2-NE2	-5.83	101.38	107.20
1	k1	84	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	ka	181	VAL	CB-CA-C	-5.83	102.82	112.26
1	kg	188	THR	CA-CB-CG2	5.83	120.40	110.50
1	kp	143	ARG	CA-C-N	5.83	128.09	120.28
1	kp	143	ARG	C-N-CA	5.83	128.09	120.28
1	22	154	ARG	NE-CZ-NH1	5.83	127.33	121.50
1	kA	118	MET	N-CA-C	5.83	120.23	113.18
1	kB	100	ARG	O-C-N	-5.83	115.48	122.65
1	kB	182	LYS	N-CA-C	5.83	117.30	111.07
1	kC	133	TRP	CA-C-N	5.83	128.02	120.56
1	kC	133	TRP	C-N-CA	5.83	128.02	120.56
1	kD	162	ARG	NH1-CZ-NH2	-5.83	111.73	119.30
1	24	92	GLU	CA-C-O	-5.83	114.29	120.23
1	kY	12	HIS	CB-CG-ND1	5.83	131.44	122.70
1	le	163	ASP	N-CA-C	5.83	118.10	111.11
1	27	205	LEU	CA-C-O	5.83	126.59	120.42
1	lm	63	GLN	CG-CD-OE1	-5.83	109.15	120.80
1	lJ	32	PHE	CA-C-O	5.83	126.54	119.78
1	2a	194	ALA	CA-C-O	5.83	127.72	121.55
1	2B	74	ASN	O-C-N	-5.83	116.07	122.07
1	2B	180	GLU	O-C-N	-5.83	116.03	122.09
1	2I	87	HIS	CB-CG-CD2	-5.83	123.63	131.20
1	3o	197	ASP	N-CA-CB	5.83	119.22	110.19
1	3r	107	THR	CA-C-O	-5.83	114.25	120.42
1	3K	32	PHE	CA-C-N	5.83	129.51	120.60
1	3K	32	PHE	C-N-CA	5.83	129.51	120.60
1	3L	47	ALA	N-CA-C	5.83	119.02	109.76
1	46	97	ARG	NH1-CZ-NH2	-5.83	111.73	119.30
1	49	56	LEU	N-CA-C	5.83	117.30	111.07
1	4y	4	GLN	CA-C-N	5.83	132.67	121.54
1	4y	4	GLN	C-N-CA	5.83	132.67	121.54
1	4z	181	VAL	N-CA-C	5.83	116.01	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	67	GLN	OE1-CD-NE2	-5.83	116.78	122.60
1	53	146	SER	CA-C-N	5.83	127.12	119.84
1	53	146	SER	C-N-CA	5.83	127.12	119.84
1	58	179	GLN	CA-C-N	5.83	128.36	120.38
1	58	179	GLN	C-N-CA	5.83	128.36	120.38
1	5d	13	GLN	CA-C-N	5.83	132.66	121.54
1	5d	13	GLN	C-N-CA	5.83	132.66	121.54
1	5f	202	LEU	CA-C-N	5.83	128.01	120.44
1	5f	202	LEU	C-N-CA	5.83	128.01	120.44
1	5K	14	ALA	N-CA-C	5.83	118.45	110.24
1	5L	178	SER	CA-C-N	5.83	128.36	120.38
1	5L	178	SER	C-N-CA	5.83	128.36	120.38
1	65	179	GLN	OE1-CD-NE2	-5.83	116.78	122.60
1	67	170	LYS	CA-C-N	5.83	128.36	120.38
1	67	170	LYS	C-N-CA	5.83	128.36	120.38
1	6c	121	ASN	CA-C-O	-5.83	113.75	119.69
1	6e	128	GLU	CB-CA-C	-5.83	101.12	110.79
1	6y	189	LEU	O-C-N	-5.83	115.94	122.12
1	6G	27	VAL	O-C-N	-5.83	116.22	121.87
1	6Q	36	VAL	N-CA-CB	-5.83	101.84	110.58
1	6R	103	ASP	CA-C-O	5.83	126.59	120.42
1	6S	110	THR	N-CA-C	-5.83	102.14	110.59
1	6S	153	ILE	O-C-N	-5.83	115.96	122.66
1	7G	10	MET	CG-SD-CE	-5.83	88.08	100.90
1	89	25	LYS	N-CA-C	5.83	117.30	111.07
1	8g	42	ALA	CA-C-O	-5.83	114.25	120.42
1	8n	147	PRO	N-CA-C	5.83	120.47	111.21
1	8J	134	ILE	CA-C-N	5.83	128.44	120.46
1	8J	134	ILE	C-N-CA	5.83	128.44	120.46
1	8J	217	ALA	N-CA-C	5.83	118.90	110.28
1	8N	33	SER	CB-CA-C	-5.83	103.65	110.76
1	8Z	96	MET	N-CA-C	5.83	118.64	109.96
1	9a	84	HIS	CB-CG-ND1	5.83	131.44	122.70
1	9b	71	GLU	CB-CA-C	-5.83	101.49	110.81
1	9g	165	VAL	CA-CB-CG1	5.83	120.30	110.40
1	9z	98	GLU	O-C-N	-5.83	115.25	121.42
1	9O	75	GLU	O-C-N	-5.83	115.97	122.03
1	9U	72	THR	N-CA-C	5.83	117.63	111.28
1	9Z	100	ARG	CA-C-N	5.83	126.45	119.98
1	9Z	100	ARG	C-N-CA	5.83	126.45	119.98
1	a4	120	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	ao	63	GLN	OE1-CD-NE2	-5.83	116.78	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ao	175	GLU	N-CA-C	5.83	118.64	109.96
1	12	204	ALA	N-CA-CB	-5.83	101.53	110.44
1	bb	174	ALA	N-CA-C	5.83	120.39	113.28
1	bg	167	ARG	CA-CB-CG	5.83	125.75	114.10
1	bi	161	PHE	CA-C-O	-5.83	114.70	120.82
1	bV	8	GLY	CA-C-O	-5.83	117.17	122.24
1	c4	67	GLN	OE1-CD-NE2	-5.83	116.77	122.60
1	cj	199	LYS	CA-C-O	-5.83	114.37	120.55
1	cY	74	ASN	OD1-CG-ND2	-5.83	116.78	122.60
1	cZ	176	GLN	OE1-CD-NE2	-5.83	116.78	122.60
1	d0	116	GLY	CA-C-N	5.83	128.09	120.28
1	d0	116	GLY	C-N-CA	5.83	128.09	120.28
1	d2	32	PHE	CA-C-O	-5.83	112.74	119.56
1	db	226	HIS	CB-CG-CD2	-5.83	123.63	131.20
1	ds	149	SER	N-CA-C	5.83	119.31	109.76
1	1l	161	PHE	CA-C-N	5.83	128.09	120.28
1	1l	161	PHE	C-N-CA	5.83	128.09	120.28
1	dL	38	PRO	CA-C-N	5.83	128.09	120.28
1	dL	38	PRO	C-N-CA	5.83	128.09	120.28
1	dU	103	ASP	CA-C-N	5.83	128.74	120.53
1	dU	103	ASP	C-N-CA	5.83	128.74	120.53
1	e6	45	GLU	N-CA-C	5.83	118.64	109.96
1	ef	19	THR	CA-CB-CG2	5.83	120.40	110.50
1	ep	50	GLN	CA-C-O	5.83	126.73	120.55
1	eJ	120	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	eL	162	ARG	CA-C-N	5.83	130.54	120.58
1	eL	162	ARG	C-N-CA	5.83	130.54	120.58
1	1v	70	LYS	CA-C-N	5.83	128.01	120.44
1	1v	70	LYS	C-N-CA	5.83	128.01	120.44
1	fl	143	ARG	NE-CZ-NH2	-5.83	113.96	119.20
1	fv	217	ALA	N-CA-CB	5.83	118.69	110.36
1	fx	62	HIS	ND1-CE1-NE2	5.83	114.23	108.40
1	fH	217	ALA	CA-C-O	-5.83	115.46	121.87
1	fM	132	ARG	N-CA-CB	5.83	118.46	110.01
1	fR	167	ARG	NE-CZ-NH2	-5.83	113.96	119.20
1	fR	203	LYS	CA-C-O	5.83	126.66	119.79
1	fW	228	ALA	N-CA-C	5.83	118.68	110.23
1	fZ	84	HIS	CG-CD2-NE2	5.83	113.03	107.20
1	l	48	THR	O-C-N	-5.83	115.46	120.99
1	l	128	GLU	CA-C-N	5.83	127.90	120.56
1	l	128	GLU	C-N-CA	5.83	127.90	120.56
1	J	87	HIS	CE1-NE2-CD2	-5.83	103.17	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	12	HIS	CB-CG-CD2	-5.83	123.63	131.20
1	ga	55	MET	CG-SD-CE	-5.82	88.09	100.90
1	gd	39	MET	CG-SD-CE	-5.82	88.09	100.90
1	gd	203	LYS	N-CA-CB	-5.82	101.33	110.06
1	gh	141	ILE	CA-C-N	5.82	128.11	120.60
1	gh	141	ILE	C-N-CA	5.82	128.11	120.60
1	gj	141	ILE	CA-CB-CG1	5.82	120.30	110.40
1	gL	214	MET	N-CA-C	5.82	118.41	111.71
1	gM	77	ALA	O-C-N	5.82	128.15	122.09
1	gM	132	ARG	NE-CZ-NH2	5.82	124.44	119.20
1	gP	142	VAL	CA-C-N	5.82	128.36	120.38
1	gP	142	VAL	C-N-CA	5.82	128.36	120.38
1	hj	178	SER	CA-C-N	5.82	128.08	120.28
1	hj	178	SER	C-N-CA	5.82	128.08	120.28
1	hq	9	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	hG	111	LEU	N-CA-CB	5.82	118.80	110.06
1	hN	23	TRP	N-CA-C	5.82	117.43	111.14
1	hS	168	PHE	N-CA-CB	-5.82	101.41	109.91
1	i3	113	GLU	CA-C-O	5.82	126.66	119.79
1	ij	169	TYR	CA-C-O	5.82	126.59	120.42
1	im	176	GLN	N-CA-CB	-5.82	101.53	110.44
1	is	139	ASN	N-CA-CB	5.82	118.62	109.94
1	iu	92	GLU	N-CA-CB	5.82	118.15	110.29
1	iD	84	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	iJ	145	TYR	CB-CG-CD2	5.82	129.53	120.80
1	iM	167	ARG	CA-C-O	5.82	126.53	119.31
1	iS	16	SER	N-CA-C	5.82	117.87	109.48
1	1T	97	ARG	NE-CZ-NH1	-5.82	115.68	121.50
1	jc	94	GLY	N-CA-C	5.82	124.05	115.08
1	ji	54	THR	N-CA-CB	5.82	118.62	109.94
1	jm	55	MET	N-CA-C	5.82	117.63	111.28
1	jn	88	ALA	O-C-N	-5.82	115.86	123.02
1	jE	42	ALA	N-CA-C	5.82	118.41	111.71
1	jM	16	SER	O-C-N	-5.82	114.90	121.36
1	jS	87	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	jW	14	ALA	N-CA-C	5.82	118.78	110.10
1	jZ	176	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	k8	4	GLN	N-CA-CB	5.82	120.33	110.49
1	kj	208	ALA	CA-C-N	5.82	129.11	120.90
1	kj	208	ALA	C-N-CA	5.82	129.11	120.90
1	ko	41	SER	N-CA-CB	5.82	119.31	110.28
1	kt	128	GLU	N-CA-CB	-5.82	101.25	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kw	188	THR	CA-C-N	5.82	129.56	120.82
1	kw	188	THR	C-N-CA	5.82	129.56	120.82
1	kE	213	GLU	CA-C-N	5.82	128.08	120.28
1	kE	213	GLU	C-N-CA	5.82	128.08	120.28
1	kP	3	VAL	CA-C-N	5.82	132.66	121.54
1	kP	3	VAL	C-N-CA	5.82	132.66	121.54
1	l5	15	ILE	CA-C-N	5.82	129.71	121.61
1	l5	15	ILE	C-N-CA	5.82	129.71	121.61
1	l8	149	SER	O-C-N	-5.82	115.65	122.81
1	lG	208	ALA	CA-C-N	5.82	130.64	121.56
1	lG	208	ALA	C-N-CA	5.82	130.64	121.56
1	lH	94	GLY	CA-C-N	5.82	129.54	120.75
1	lH	94	GLY	C-N-CA	5.82	129.54	120.75
1	2g	109	SER	N-CA-CB	5.82	119.92	110.43
1	2g	183	ASN	CB-CA-C	5.82	120.02	110.88
1	2k	44	SER	CA-C-N	5.82	130.16	121.72
1	2k	44	SER	C-N-CA	5.82	130.16	121.72
1	2t	213	GLU	CA-C-O	-5.82	114.38	120.55
1	3r	58	THR	N-CA-CB	5.82	118.68	110.12
1	3A	203	LYS	N-CA-C	-5.82	104.89	112.23
1	3E	160	PRO	CA-C-O	-5.82	114.57	121.67
1	3N	35	GLU	CA-C-N	5.82	128.44	120.46
1	3N	35	GLU	C-N-CA	5.82	128.44	120.46
1	3V	183	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	3W	193	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	41	154	ARG	NE-CZ-NH1	-5.82	115.68	121.50
1	4g	139	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	4l	75	GLU	N-CA-C	5.82	117.63	111.28
1	4p	159	GLU	CA-C-N	5.82	125.83	119.89
1	4p	159	GLU	C-N-CA	5.82	125.83	119.89
1	4N	59	VAL	N-CA-C	5.82	116.58	108.89
1	4V	168	PHE	CB-CA-C	5.82	119.93	110.96
1	4Y	162	ARG	N-CA-C	5.82	118.38	111.33
1	55	165	VAL	CA-C-N	5.82	128.01	120.44
1	55	165	VAL	C-N-CA	5.82	128.01	120.44
1	5e	68	MET	O-C-N	-5.82	115.95	122.12
1	5i	197	ASP	O-C-N	-5.82	116.07	122.07
1	5r	178	SER	CA-C-O	5.82	128.84	120.51
1	5t	2	ILE	CA-C-N	5.82	130.69	123.12
1	5t	2	ILE	C-N-CA	5.82	130.69	123.12
1	5v	217	ALA	CA-C-N	5.82	132.66	121.54
1	5v	217	ALA	C-N-CA	5.82	132.66	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	176	GLN	CA-C-N	5.82	129.38	120.82
1	5y	176	GLN	C-N-CA	5.82	129.38	120.82
1	5F	91	ILE	N-CA-C	-5.82	106.81	112.29
1	5X	79	GLU	CA-C-O	5.82	126.93	120.82
1	67	190	LEU	N-CA-C	5.82	117.63	111.28
1	6g	226	HIS	N-CA-CB	-5.82	102.17	111.43
1	6h	62	HIS	ND1-CG-CD2	5.82	111.92	106.10
1	6H	110	THR	CA-C-N	5.82	128.08	120.28
1	6H	110	THR	C-N-CA	5.82	128.08	120.28
1	6L	31	ALA	N-CA-C	5.82	123.20	110.80
1	6U	104	ILE	CA-CB-CG1	-5.82	100.50	110.40
1	6U	119	THR	N-CA-C	-5.82	105.37	112.88
1	6V	65	ALA	CA-C-N	5.82	128.01	120.44
1	6V	65	ALA	C-N-CA	5.82	128.01	120.44
1	6X	212	GLU	CA-C-O	5.82	126.72	120.55
1	7r	84	HIS	N-CA-CB	5.82	118.87	109.90
1	7H	117	TRP	O-C-N	-5.82	115.15	122.20
1	7P	140	LYS	N-CA-C	5.82	117.63	111.28
1	83	216	THR	N-CA-C	5.82	118.10	111.11
1	8y	71	GLU	CA-C-N	5.82	128.01	120.44
1	8y	71	GLU	C-N-CA	5.82	128.01	120.44
1	8R	227	LYS	O-C-N	-5.82	116.45	123.03
1	9b	69	LEU	CA-C-N	5.82	128.01	120.44
1	9b	69	LEU	C-N-CA	5.82	128.01	120.44
1	9c	168	PHE	N-CA-C	5.82	117.71	111.36
1	9e	76	GLU	CA-C-N	5.82	128.08	120.28
1	9e	76	GLU	C-N-CA	5.82	128.08	120.28
1	9X	125	PRO	CA-C-N	5.82	128.74	120.53
1	9X	125	PRO	C-N-CA	5.82	128.74	120.53
1	9Z	114	GLN	CA-C-N	5.82	128.44	120.46
1	9Z	114	GLN	C-N-CA	5.82	128.44	120.46
1	am	221	VAL	O-C-N	-5.82	116.76	122.93
1	aK	24	VAL	N-CA-C	5.82	116.56	110.62
1	aY	82	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	b7	12	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	bt	100	ARG	CA-C-N	5.82	126.44	119.98
1	bt	100	ARG	C-N-CA	5.82	126.44	119.98
1	bY	12	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	c7	57	ASN	CA-CB-CG	-5.82	106.78	112.60
1	cb	20	LEU	CA-C-N	5.82	128.08	120.28
1	cb	20	LEU	C-N-CA	5.82	128.08	120.28
1	cf	85	PRO	CA-C-N	5.82	129.27	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cf	85	PRO	C-N-CA	5.82	129.27	120.77
1	cs	148	THR	O-C-N	-5.82	115.79	123.13
1	cw	174	ALA	N-CA-C	5.82	117.43	111.14
1	cw	207	PRO	N-CA-C	-5.82	106.41	114.27
1	cx	124	ILE	CA-C-O	-5.82	113.54	119.89
1	cy	177	ALA	CB-CA-C	5.82	119.08	109.70
1	cB	36	VAL	N-CA-C	5.82	116.56	110.62
1	cE	194	ALA	CB-CA-C	-5.82	99.64	109.83
1	cS	18	ARG	NE-CZ-NH2	-5.82	113.96	119.20
1	cU	117	TRP	CB-CG-CD2	5.82	134.95	126.80
1	cW	5	ASN	CA-CB-CG	5.82	118.42	112.60
1	d3	195	ASN	N-CA-C	5.82	118.11	110.08
1	d6	51	ASP	CA-C-N	5.82	128.01	120.44
1	d6	51	ASP	C-N-CA	5.82	128.01	120.44
1	d8	195	ASN	CA-C-O	-5.82	114.11	120.17
1	d9	154	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	db	132	ARG	CA-C-N	5.82	128.01	120.44
1	db	132	ARG	C-N-CA	5.82	128.01	120.44
1	df	66	MET	N-CA-C	5.82	118.38	111.33
1	du	185	MET	N-CA-C	5.82	117.63	111.28
1	dC	39	MET	O-C-N	-5.82	116.03	122.09
1	e7	156	GLY	CA-C-N	5.82	125.36	119.19
1	e7	156	GLY	C-N-CA	5.82	125.36	119.19
1	eb	133	TRP	CB-CG-CD1	5.82	135.63	126.90
1	ec	180	GLU	N-CA-C	5.82	117.63	111.28
1	ed	178	SER	CA-CB-OG	5.82	122.75	111.10
1	ef	3	VAL	CA-C-O	-5.82	115.73	121.67
1	er	216	THR	CA-CB-OG1	5.82	118.33	109.60
1	1s	13	GLN	O-C-N	-5.82	116.08	123.24
1	eL	197	ASP	CA-C-O	5.82	126.59	120.42
1	f3	172	LEU	N-CA-C	5.82	117.63	111.28
1	f4	176	GLN	CA-C-O	5.82	126.69	120.46
1	f9	195	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	fd	104	ILE	N-CA-C	5.82	116.56	110.62
1	fr	166	ASP	CB-CA-C	5.82	120.02	110.88
1	fs	87	HIS	CA-CB-CG	5.82	119.62	113.80
1	fv	107	THR	CA-CB-OG1	5.82	118.34	109.60
1	1y	93	PRO	N-CA-C	5.82	120.75	111.26
1	fF	67	GLN	O-C-N	-5.82	115.95	122.12
1	fQ	104	ILE	N-CA-C	5.82	116.56	110.62
1	0	12	HIS	CA-C-N	5.82	131.82	121.75
1	0	12	HIS	C-N-CA	5.82	131.82	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	165	VAL	CA-C-N	5.82	128.01	120.44
1	1	165	VAL	C-N-CA	5.82	128.01	120.44
1	m	192	GLN	CA-C-N	5.82	132.15	122.54
1	m	192	GLN	C-N-CA	5.82	132.15	122.54
1	2	49	PRO	O-C-N	-5.82	114.71	122.22
1	B	209	ALA	CA-C-N	5.82	130.71	120.87
1	B	209	ALA	C-N-CA	5.82	130.71	120.87
1	M	133	TRP	CA-C-N	5.82	127.90	120.56
1	M	133	TRP	C-N-CA	5.82	127.90	120.56
1	gz	117	TRP	N-CA-C	5.82	117.71	111.36
1	hw	130	TYR	CB-CG-CD2	-5.82	112.07	120.80
1	i1	2	ILE	CA-C-N	5.82	130.77	123.14
1	i1	2	ILE	C-N-CA	5.82	130.77	123.14
1	i1	173	ARG	O-C-N	-5.82	115.11	122.27
1	i9	219	GLN	N-CA-C	5.82	117.30	111.07
1	ih	78	ALA	CB-CA-C	-5.82	101.13	110.79
1	ik	212	GLU	CA-C-N	5.82	128.08	120.28
1	ik	212	GLU	C-N-CA	5.82	128.08	120.28
1	jf	152	ASP	CA-CB-CG	-5.82	106.78	112.60
1	jg	73	ILE	N-CA-C	5.82	116.56	110.62
1	jn	128	GLU	N-CA-C	5.82	117.63	111.28
1	jL	19	THR	CA-CB-OG1	5.82	118.33	109.60
1	jM	220	GLY	CA-C-O	-5.82	117.57	122.29
1	jT	226	HIS	CA-CB-CG	5.82	119.62	113.80
1	k3	86	VAL	O-C-N	-5.82	116.46	122.63
1	20	187	GLU	N-CA-C	5.82	117.30	111.07
1	kj	125	PRO	CA-C-N	5.82	128.74	120.53
1	kj	125	PRO	C-N-CA	5.82	128.74	120.53
1	kV	123	PRO	CA-C-O	-5.82	114.81	121.56
1	l9	59	VAL	O-C-N	-5.82	117.12	123.18
1	lw	143	ARG	N-CA-C	5.82	118.41	111.71
1	lG	178	SER	N-CA-CB	5.82	118.60	110.04
1	lN	55	MET	N-CA-C	5.82	118.10	111.11
1	2P	226	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	2X	142	VAL	CA-C-N	5.82	128.08	120.28
1	2X	142	VAL	C-N-CA	5.82	128.08	120.28
1	39	82	ARG	N-CA-C	5.82	117.63	111.28
1	3i	171	THR	CA-C-N	5.82	128.08	120.28
1	3i	171	THR	C-N-CA	5.82	128.08	120.28
1	4k	186	THR	CA-C-N	5.82	128.01	120.44
1	4k	186	THR	C-N-CA	5.82	128.01	120.44
1	4l	154	ARG	N-CA-C	-5.82	100.40	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4w	37	ILE	CA-C-N	5.82	125.20	118.85
1	4w	37	ILE	C-N-CA	5.82	125.20	118.85
1	4O	84	HIS	N-CA-C	5.82	118.03	110.40
1	4Y	164	TYR	CA-C-N	5.82	128.11	120.60
1	4Y	164	TYR	C-N-CA	5.82	128.11	120.60
1	4Z	163	ASP	CA-C-N	5.82	128.01	120.44
1	4Z	163	ASP	C-N-CA	5.82	128.01	120.44
1	56	113	GLU	CA-C-O	5.82	126.68	120.10
1	5e	183	ASN	CA-CB-CG	-5.82	106.78	112.60
1	5s	1	PRO	CB-CA-C	5.82	121.16	110.10
1	5w	229	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	62	42	ALA	CA-C-N	5.82	129.16	120.31
1	62	42	ALA	C-N-CA	5.82	129.16	120.31
1	64	86	VAL	N-CA-CB	5.82	119.91	110.13
1	6i	86	VAL	CA-C-O	-5.82	114.34	120.57
1	6v	163	ASP	CA-C-N	5.82	128.56	120.29
1	6v	163	ASP	C-N-CA	5.82	128.56	120.29
1	6B	132	ARG	CA-C-N	5.82	128.08	120.28
1	6B	132	ARG	C-N-CA	5.82	128.08	120.28
1	6U	162	ARG	N-CA-C	5.82	118.38	111.33
1	7N	146	SER	CA-C-O	-5.82	113.80	119.51
1	7W	3	VAL	N-CA-CB	5.82	117.07	110.72
1	81	225	GLY	CA-C-O	5.82	124.77	118.95
1	87	55	MET	CA-C-O	-5.82	114.71	120.82
1	8h	139	ASN	O-C-N	5.82	128.29	122.12
1	8O	25	LYS	N-CA-C	5.82	117.63	111.28
1	97	96	MET	N-CA-C	5.82	118.15	109.59
1	9h	201	ILE	N-CA-C	5.82	116.60	110.72
1	a1	20	LEU	O-C-N	-5.82	115.95	122.12
1	a4	133	TRP	CB-CG-CD2	-5.82	118.65	126.80
1	ap	204	ALA	CA-C-N	5.82	128.56	120.29
1	ap	204	ALA	C-N-CA	5.82	128.56	120.29
1	aw	124	ILE	O-C-N	5.82	125.68	121.55
1	b7	114	GLN	O-C-N	-5.82	115.95	122.12
1	bh	145	TYR	O-C-N	-5.82	114.43	122.46
1	bC	199	LYS	N-CA-CB	5.82	118.45	110.01
1	bV	202	LEU	CA-C-N	5.82	128.08	120.28
1	bV	202	LEU	C-N-CA	5.82	128.08	120.28
1	c8	160	PRO	N-CD-CG	5.82	111.93	103.20
1	ci	224	PRO	N-CA-C	5.82	122.42	113.75
1	1f	173	ARG	N-CA-C	5.82	117.30	111.07
1	1f	176	GLN	CA-C-O	-5.82	115.09	121.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	180	GLU	CA-C-N	5.82	127.90	120.56
1	d4	180	GLU	C-N-CA	5.82	127.90	120.56
1	d5	132	ARG	CA-C-N	5.82	128.56	120.29
1	d5	132	ARG	C-N-CA	5.82	128.56	120.29
1	el	120	HIS	CB-CA-C	5.82	120.02	109.83
1	eI	16	SER	CA-C-O	-5.82	114.86	120.97
1	fg	12	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	fG	51	ASP	CA-C-O	-5.82	114.71	120.82
1	h	195	ASN	CB-CA-C	5.82	119.01	109.46
1	o	29	GLU	CB-CA-C	-5.82	99.49	110.67
1	r	226	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	K	167	ARG	CB-CG-CD	5.82	124.69	111.30
1	U	153	ILE	CA-CB-CG2	-5.82	100.60	110.50
1	gf	195	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	gg	162	ARG	N-CA-C	5.82	118.09	111.11
1	gJ	72	THR	O-C-N	-5.82	115.11	122.27
1	gQ	168	PHE	CA-C-N	5.82	128.08	120.28
1	gQ	168	PHE	C-N-CA	5.82	128.08	120.28
1	gW	222	GLY	N-CA-C	5.82	118.62	111.93
1	gX	166	ASP	N-CA-C	5.82	117.62	111.28
1	hd	62	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	he	95	GLN	CA-C-O	-5.82	114.52	121.56
1	hp	53	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	hR	211	LEU	O-C-N	-5.82	115.56	122.20
1	hY	36	VAL	CA-C-N	5.82	124.99	120.33
1	hY	36	VAL	C-N-CA	5.82	124.99	120.33
1	hY	173	ARG	N-CA-C	5.82	117.62	111.28
1	i9	112	GLN	CB-CG-CD	5.82	122.50	112.60
1	io	148	THR	CA-CB-CG2	5.82	120.39	110.50
1	it	185	MET	CA-C-N	5.82	128.08	120.28
1	it	185	MET	C-N-CA	5.82	128.08	120.28
1	iw	114	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	iz	100	ARG	N-CA-CB	5.82	118.68	110.36
1	iI	84	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	iK	190	LEU	N-CA-C	5.82	120.97	111.37
1	iQ	89	GLY	CA-C-N	5.82	126.16	119.93
1	iQ	89	GLY	C-N-CA	5.82	126.16	119.93
1	j2	152	ASP	N-CA-CB	-5.82	102.03	110.47
1	j9	57	ASN	CA-C-N	5.82	129.16	120.31
1	j9	57	ASN	C-N-CA	5.82	129.16	120.31
1	1V	166	ASP	O-C-N	-5.82	116.04	122.09
1	jD	6	LEU	CA-C-N	5.82	130.40	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	6	LEU	C-N-CA	5.82	130.40	122.19
1	jU	72	THR	CA-C-N	5.82	128.11	120.60
1	jU	72	THR	C-N-CA	5.82	128.11	120.60
1	kj	124	ILE	O-C-N	-5.82	115.57	120.92
1	kx	62	HIS	ND1-CG-CD2	5.82	111.92	106.10
1	kI	6	LEU	CA-C-O	5.82	124.82	119.00
1	kR	117	TRP	N-CA-C	5.82	117.62	111.28
1	kU	134	ILE	N-CA-C	5.82	116.01	110.42
1	l8	81	ASP	CA-CB-CG	5.82	118.42	112.60
1	lc	21	ASN	CA-C-N	5.82	128.08	120.28
1	lc	21	ASN	C-N-CA	5.82	128.08	120.28
1	ld	226	HIS	CA-C-O	5.82	127.69	121.05
1	lh	74	ASN	N-CA-C	5.82	118.09	111.11
1	li	9	GLN	CA-C-O	5.82	126.77	120.43
1	ly	67	GLN	CG-CD-NE2	-5.82	107.67	116.40
1	2a	192	GLN	CG-CD-NE2	5.82	125.13	116.40
1	2v	199	LYS	CA-C-N	5.82	128.01	120.44
1	2v	199	LYS	C-N-CA	5.82	128.01	120.44
1	2E	134	ILE	CA-C-O	5.82	126.54	120.25
1	2N	119	THR	CA-CB-OG1	5.82	118.33	109.60
1	2O	4	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	2U	15	ILE	N-CA-CB	5.82	119.21	110.13
1	30	87	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	3d	133	TRP	CB-CG-CD1	5.82	135.63	126.90
1	3d	134	ILE	CA-C-N	5.82	128.43	120.46
1	3d	134	ILE	C-N-CA	5.82	128.43	120.46
1	3e	132	ARG	NE-CZ-NH2	-5.82	113.96	119.20
1	3h	32	PHE	O-C-N	-5.82	115.71	122.87
1	3S	165	VAL	CA-C-N	5.82	128.01	120.44
1	3S	165	VAL	C-N-CA	5.82	128.01	120.44
1	3Y	57	ASN	CA-C-N	5.82	128.66	120.28
1	3Y	57	ASN	C-N-CA	5.82	128.66	120.28
1	41	76	GLU	CA-C-O	5.82	126.92	120.63
1	45	206	GLY	CA-C-O	-5.82	113.20	121.52
1	4b	223	GLY	O-C-N	5.82	127.59	121.77
1	4p	21	ASN	N-CA-C	5.82	117.62	111.28
1	4X	34	PRO	N-CA-C	-5.82	107.08	114.35
1	4Z	212	GLU	CB-CG-CD	5.82	122.50	112.60
1	58	18	ARG	CA-C-N	5.82	128.08	120.28
1	58	18	ARG	C-N-CA	5.82	128.08	120.28
1	59	154	ARG	N-CA-C	5.82	120.19	113.38
1	59	212	GLU	N-CA-C	5.82	118.09	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	172	LEU	CA-C-N	5.82	128.35	120.38
1	5u	172	LEU	C-N-CA	5.82	128.35	120.38
1	5x	110	THR	N-CA-CB	5.82	118.76	110.44
1	6j	141	ILE	N-CA-C	-5.82	104.95	110.42
1	6s	87	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	6F	156	GLY	N-CA-C	5.82	118.99	112.00
1	6R	144	MET	CA-C-O	5.82	126.53	119.31
1	7o	9	GLN	N-CA-C	5.82	119.42	111.39
1	7q	178	SER	CA-C-N	5.82	128.01	120.44
1	7q	178	SER	C-N-CA	5.82	128.01	120.44
1	7s	170	LYS	O-C-N	-5.82	115.95	122.12
1	7z	130	TYR	N-CA-C	5.82	117.30	111.07
1	7N	226	HIS	CA-C-N	5.82	132.15	121.85
1	7N	226	HIS	C-N-CA	5.82	132.15	121.85
1	7Q	54	THR	CB-CA-C	5.82	120.02	110.88
1	8m	66	MET	N-CA-C	5.82	117.62	111.28
1	8p	51	ASP	CA-C-N	5.82	128.56	120.29
1	8p	51	ASP	C-N-CA	5.82	128.56	120.29
1	8y	134	ILE	O-C-N	-5.82	115.84	121.83
1	8H	50	GLN	CA-C-O	5.82	126.93	120.82
1	8I	112	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	8V	189	LEU	N-CA-C	5.82	119.20	111.75
1	8X	49	PRO	N-CD-CG	5.82	111.93	103.20
1	95	12	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	9b	182	LYS	N-CA-C	5.82	118.40	111.71
1	9n	103	ASP	CA-CB-CG	5.82	118.42	112.60
1	9w	97	ARG	NE-CZ-NH2	5.82	124.44	119.20
1	9w	154	ARG	NH1-CZ-NH2	-5.82	111.73	119.30
1	9G	117	TRP	CZ3-CH2-CZ2	-5.82	113.93	121.50
1	9R	78	ALA	CA-C-N	5.82	128.40	120.54
1	9R	78	ALA	C-N-CA	5.82	128.40	120.54
1	9X	133	TRP	O-C-N	-5.82	115.95	122.12
1	a5	79	GLU	CA-C-O	5.82	126.72	120.55
1	a9	49	PRO	N-CA-C	5.82	122.25	113.81
1	ac	141	ILE	O-C-N	-5.82	116.21	121.91
1	at	7	GLN	CA-C-O	-5.82	115.38	121.55
1	aC	28	GLU	CA-C-O	-5.82	114.71	120.82
1	aM	101	GLY	N-CA-C	5.82	119.93	112.83
1	aT	97	ARG	O-C-N	-5.82	115.79	122.89
1	aW	115	ILE	N-CA-CB	5.82	118.02	110.57
1	b0	139	ASN	N-CA-CB	5.82	118.68	110.12
1	bf	24	VAL	N-CA-CB	-5.82	104.51	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	214	MET	CA-C-N	5.82	128.33	120.65
1	bf	214	MET	C-N-CA	5.82	128.33	120.65
1	bS	184	TRP	CA-C-N	5.82	128.55	120.29
1	bS	184	TRP	C-N-CA	5.82	128.55	120.29
1	c1	194	ALA	O-C-N	-5.82	116.16	122.79
1	c4	184	TRP	O-C-N	-5.82	115.11	122.27
1	c6	213	GLU	O-C-N	-5.82	115.52	122.15
1	cf	4	GLN	N-CA-C	5.82	118.27	110.35
1	cf	4	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	1d	98	GLU	N-CA-C	5.82	118.11	110.08
1	co	195	ASN	CA-CB-CG	5.82	118.42	112.60
1	cp	143	ARG	N-CA-C	5.82	117.70	111.36
1	cy	84	HIS	CA-CB-CG	5.82	119.62	113.80
1	cG	64	ALA	N-CA-C	5.82	117.70	111.36
1	1g	84	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	cP	203	LYS	N-CA-C	5.82	118.57	111.82
1	d9	180	GLU	N-CA-C	5.82	117.62	111.28
1	dc	213	GLU	CA-C-N	5.82	128.36	120.44
1	dc	213	GLU	C-N-CA	5.82	128.36	120.44
1	1l	97	ARG	N-CA-CB	5.82	118.62	109.83
1	dE	182	LYS	N-CA-C	5.82	117.62	111.28
1	dI	61	GLY	N-CA-C	5.82	122.08	112.89
1	dN	220	GLY	O-C-N	-5.82	115.13	122.70
1	dS	195	ASN	CA-C-O	-5.82	114.11	120.69
1	e7	91	ILE	N-CA-CB	5.82	120.83	111.23
1	em	209	ALA	O-C-N	-5.82	116.38	122.96
1	ez	62	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	eF	195	ASN	CA-CB-CG	5.82	118.42	112.60
1	1t	111	LEU	CA-C-N	5.82	128.08	120.28
1	1t	111	LEU	C-N-CA	5.82	128.08	120.28
1	eU	226	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	eV	29	GLU	O-C-N	-5.82	114.69	122.49
1	f3	204	ALA	N-CA-C	5.82	118.41	111.71
1	fe	8	GLY	CA-C-N	5.82	132.66	121.54
1	fe	8	GLY	C-N-CA	5.82	132.66	121.54
1	ff	149	SER	N-CA-CB	5.82	120.16	110.85
1	fl	62	HIS	ND1-CG-CD2	5.82	111.92	106.10
1	fz	3	VAL	N-CA-C	-5.82	99.84	108.45
1	fK	79	GLU	CA-C-N	5.82	128.01	120.44
1	fK	79	GLU	C-N-CA	5.82	128.01	120.44
1	g7	69	LEU	CA-C-O	5.82	126.72	120.55
1	0	11	VAL	N-CA-C	5.82	117.06	108.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	0	147	PRO	N-CA-CB	5.82	109.36	103.25
1	a	163	ASP	CA-C-N	5.82	128.33	120.65
1	a	163	ASP	C-N-CA	5.82	128.33	120.65
1	i	132	ARG	CA-C-N	5.82	128.56	120.29
1	i	132	ARG	C-N-CA	5.82	128.56	120.29
1	n	131	LYS	N-CA-CB	-5.82	101.56	110.12
1	F	27	VAL	N-CA-CB	5.82	117.36	110.55
1	R	75	GLU	O-C-N	-5.82	115.80	122.09
1	X	131	LYS	CA-C-N	5.82	128.01	120.44
1	X	131	LYS	C-N-CA	5.82	128.01	120.44
1	gt	84	HIS	CA-CB-CG	5.82	119.62	113.80
1	gx	196	PRO	CA-C-N	5.82	128.08	120.28
1	gx	196	PRO	C-N-CA	5.82	128.08	120.28
1	h4	153	ILE	CA-CB-CG2	5.82	120.39	110.50
1	h8	210	THR	O-C-N	-5.82	115.99	122.86
1	hI	96	MET	CG-SD-CE	-5.82	88.10	100.90
1	hK	48	THR	N-CA-CB	5.82	117.81	109.78
1	im	10	MET	CA-C-N	5.82	129.91	121.18
1	im	10	MET	C-N-CA	5.82	129.91	121.18
1	iN	80	TRP	N-CA-C	5.82	117.62	111.28
1	iR	5	ASN	O-C-N	5.82	130.61	123.10
1	iS	148	THR	CA-CB-OG1	5.82	118.33	109.60
1	j1	39	MET	CA-C-N	5.82	128.00	120.44
1	j1	39	MET	C-N-CA	5.82	128.00	120.44
1	j7	197	ASP	CA-CB-CG	5.82	118.42	112.60
1	j9	23	TRP	CG-CD2-CE3	-5.82	128.08	133.90
1	ji	172	LEU	CA-C-N	5.82	128.40	120.54
1	ji	172	LEU	C-N-CA	5.82	128.40	120.54
1	jQ	219	GLN	CA-C-O	5.82	126.66	119.79
1	ks	171	THR	OG1-CB-CG2	5.82	120.94	109.30
1	ky	130	TYR	N-CA-C	5.82	117.62	111.28
1	25	127	GLY	CA-C-N	5.82	128.08	120.28
1	25	127	GLY	C-N-CA	5.82	128.08	120.28
1	kY	206	GLY	O-C-N	-5.82	115.95	121.77
1	kZ	64	ALA	N-CA-CB	5.82	118.45	110.01
1	lc	87	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	lt	130	TYR	O-C-N	-5.82	115.95	122.12
1	lA	213	GLU	N-CA-C	5.82	117.62	111.28
1	2v	201	ILE	N-CA-CB	5.82	117.36	110.55
1	2A	146	SER	CA-C-N	5.82	127.11	119.84
1	2A	146	SER	C-N-CA	5.82	127.11	119.84
1	2D	170	LYS	CB-CA-C	5.82	121.39	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	38	PRO	CA-C-N	5.82	130.43	120.71
1	3h	38	PRO	C-N-CA	5.82	130.43	120.71
1	3h	53	ASN	N-CA-C	-5.82	104.86	111.14
1	3H	186	THR	N-CA-C	5.82	117.62	111.28
1	3N	102	SER	N-CA-C	5.82	117.62	111.28
1	4G	42	ALA	N-CA-CB	-5.82	101.53	110.20
1	4Y	97	ARG	N-CA-C	5.82	118.50	110.35
1	5e	229	ARG	CA-C-N	5.82	128.68	120.42
1	5e	229	ARG	C-N-CA	5.82	128.68	120.42
1	5G	26	VAL	N-CA-C	5.82	116.56	110.62
1	5Q	117	TRP	CA-C-N	5.82	128.55	120.29
1	5Q	117	TRP	C-N-CA	5.82	128.55	120.29
1	5U	186	THR	CA-C-N	5.82	128.00	120.44
1	5U	186	THR	C-N-CA	5.82	128.00	120.44
1	6S	161	PHE	CA-C-N	5.82	128.40	120.54
1	6S	161	PHE	C-N-CA	5.82	128.40	120.54
1	6U	78	ALA	N-CA-C	5.82	118.57	111.82
1	7b	26	VAL	O-C-N	5.82	127.61	121.91
1	84	102	SER	CA-C-O	-5.82	113.53	120.10
1	91	199	LYS	N-CA-C	5.82	117.30	111.07
1	9n	119	THR	CA-C-N	5.82	130.08	120.94
1	9n	119	THR	C-N-CA	5.82	130.08	120.94
1	9G	8	GLY	N-CA-C	-5.82	107.14	115.64
1	aW	50	GLN	OE1-CD-NE2	5.82	128.42	122.60
1	bu	222	GLY	CA-C-N	5.82	131.01	121.87
1	bu	222	GLY	C-N-CA	5.82	131.01	121.87
1	bv	182	LYS	N-CA-CB	5.82	118.45	110.01
1	by	155	GLN	O-C-N	-5.82	117.19	123.42
1	bC	36	VAL	CA-C-N	5.82	126.02	120.43
1	bC	36	VAL	C-N-CA	5.82	126.02	120.43
1	cH	229	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	cQ	193	ASN	CA-CB-CG	-5.82	106.78	112.60
1	1k	80	TRP	CD2-CE2-CZ2	-5.82	116.58	122.40
1	do	210	THR	N-CA-CB	5.82	118.52	109.97
1	dp	101	GLY	CA-C-O	5.82	127.04	121.05
1	dG	143	ARG	CA-C-N	5.82	128.08	120.28
1	dG	143	ARG	C-N-CA	5.82	128.08	120.28
1	dQ	124	ILE	O-C-N	-5.82	116.92	121.46
1	dS	225	GLY	CA-C-N	5.82	129.10	120.95
1	dS	225	GLY	C-N-CA	5.82	129.10	120.95
1	e4	106	GLY	CA-C-N	5.82	128.08	120.28
1	e4	106	GLY	C-N-CA	5.82	128.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	123	PRO	N-CA-CB	5.82	109.36	103.25
1	eo	93	PRO	CA-C-N	5.82	126.56	119.99
1	eo	93	PRO	C-N-CA	5.82	126.56	119.99
1	eL	59	VAL	CA-CB-CG1	5.82	120.29	110.40
1	eS	225	GLY	O-C-N	-5.82	116.07	122.24
1	eZ	101	GLY	CA-C-N	5.82	128.08	120.28
1	eZ	101	GLY	C-N-CA	5.82	128.08	120.28
1	fJ	38	PRO	N-CA-C	-5.82	105.95	113.57
1	fM	76	GLU	CA-C-O	-5.82	114.71	120.82
1	fW	199	LYS	N-CA-CB	5.82	118.61	109.94
1	fZ	84	HIS	CB-CG-ND1	5.82	131.43	122.70
1	d	48	THR	CA-C-N	5.82	127.11	119.84
1	d	48	THR	C-N-CA	5.82	127.11	119.84
1	n	124	ILE	N-CA-C	-5.82	101.10	107.73
1	9	7	GLN	CA-C-N	5.82	127.67	120.34
1	9	7	GLN	C-N-CA	5.82	127.67	120.34
1	gb	59	VAL	N-CA-CB	5.82	118.47	111.31
1	gN	101	GLY	CA-C-N	5.82	128.00	120.44
1	gN	101	GLY	C-N-CA	5.82	128.00	120.44
1	gS	137	GLY	CA-C-O	-5.82	113.90	120.30
1	hf	48	THR	O-C-N	-5.82	115.02	121.53
1	hq	131	LYS	O-C-N	5.82	128.14	122.09
1	hr	223	GLY	N-CA-C	5.82	124.21	112.34
1	hw	219	GLN	N-CA-CB	-5.82	100.40	110.17
1	hy	49	PRO	CA-C-N	5.82	128.00	120.44
1	hy	49	PRO	C-N-CA	5.82	128.00	120.44
1	hK	153	ILE	O-C-N	-5.82	115.30	122.57
1	hM	108	THR	CA-C-O	5.82	125.23	118.77
1	hS	5	ASN	CA-CB-CG	5.82	118.42	112.60
1	1N	3	VAL	N-CA-C	5.82	116.78	108.93
1	i7	73	ILE	N-CA-C	5.82	116.55	110.62
1	1Q	179	GLN	OE1-CD-NE2	5.82	128.42	122.60
1	iE	167	ARG	NE-CZ-NH2	-5.82	113.97	119.20
1	iG	66	MET	O-C-N	5.82	128.29	122.12
1	iI	12	HIS	CG-CD2-NE2	5.82	113.02	107.20
1	j1	22	ALA	N-CA-C	5.82	118.37	111.33
1	1T	76	GLU	CA-C-O	-5.82	114.35	120.63
1	j2	25	LYS	N-CA-C	5.82	118.40	111.71
1	j7	36	VAL	CA-C-O	5.82	127.00	120.95
1	jd	53	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	je	228	ALA	N-CA-C	5.82	118.67	110.23
1	ji	220	GLY	CA-C-N	5.82	128.37	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	220	GLY	C-N-CA	5.82	128.37	120.63
1	jj	143	ARG	CA-C-N	5.82	128.66	120.28
1	jj	143	ARG	C-N-CA	5.82	128.66	120.28
1	jn	23	TRP	CA-C-N	5.82	128.68	120.42
1	jn	23	TRP	C-N-CA	5.82	128.68	120.42
1	jn	89	GLY	CA-C-N	5.82	127.11	119.84
1	jn	89	GLY	C-N-CA	5.82	127.11	119.84
1	js	73	ILE	N-CA-C	5.82	118.36	111.09
1	jt	86	VAL	CA-C-N	5.82	132.65	121.54
1	jt	86	VAL	C-N-CA	5.82	132.65	121.54
1	1W	74	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	jC	167	ARG	CA-C-N	5.82	128.39	120.54
1	jC	167	ARG	C-N-CA	5.82	128.39	120.54
1	jH	2	ILE	O-C-N	-5.82	116.92	123.03
1	jJ	24	VAL	O-C-N	-5.82	114.09	122.12
1	jM	100	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	jP	82	ARG	CB-CA-C	-5.82	99.50	110.67
1	jQ	70	LYS	O-C-N	-5.82	115.95	122.12
1	jT	53	ASN	CA-CB-CG	-5.82	106.78	112.60
1	jU	132	ARG	NE-CZ-NH2	-5.82	113.96	119.20
1	jW	117	TRP	O-C-N	-5.82	115.95	122.12
1	k2	70	LYS	N-CA-C	5.82	117.62	111.28
1	20	213	GLU	CA-C-N	5.82	128.07	120.28
1	20	213	GLU	C-N-CA	5.82	128.07	120.28
1	ke	129	ILE	CA-C-O	5.82	127.34	121.17
1	ku	41	SER	CA-C-N	5.82	128.00	120.44
1	ku	41	SER	C-N-CA	5.82	128.00	120.44
1	kM	117	TRP	N-CA-C	5.82	118.37	111.33
1	kN	194	ALA	CB-CA-C	-5.82	100.83	109.90
1	kW	57	ASN	CA-C-N	5.82	128.07	120.28
1	kW	57	ASN	C-N-CA	5.82	128.07	120.28
1	lx	103	ASP	CA-CB-CG	5.82	118.42	112.60
1	lC	6	LEU	CA-C-N	5.82	130.62	122.36
1	lC	6	LEU	C-N-CA	5.82	130.62	122.36
1	lE	56	LEU	N-CA-C	5.82	117.62	111.28
1	2e	63	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	2l	187	GLU	N-CA-CB	5.82	118.44	110.01
1	2p	165	VAL	CA-C-N	5.82	128.00	120.44
1	2p	165	VAL	C-N-CA	5.82	128.00	120.44
1	2r	107	THR	CA-C-O	5.82	127.10	120.00
1	2r	219	GLN	CA-C-O	5.82	127.55	120.92
1	2v	139	ASN	CA-C-N	5.82	128.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2v	139	ASN	C-N-CA	5.82	128.08	120.28
1	2A	69	LEU	N-CA-C	5.82	117.62	111.28
1	2H	121	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	2P	33	SER	N-CA-C	-5.82	102.89	108.13
1	2X	57	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	3e	120	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	3f	24	VAL	CA-C-N	5.82	128.07	120.28
1	3f	24	VAL	C-N-CA	5.82	128.07	120.28
1	3h	48	THR	N-CA-CB	5.82	116.06	109.49
1	3l	159	GLU	O-C-N	-5.82	115.77	121.18
1	3D	201	ILE	N-CA-CB	5.82	116.97	110.51
1	3J	144	MET	CA-C-O	5.82	126.53	119.38
1	3M	87	HIS	CA-CB-CG	5.82	119.62	113.80
1	42	56	LEU	N-CA-CB	5.82	118.44	110.01
1	49	100	ARG	NH1-CZ-NH2	-5.82	111.74	119.30
1	4o	224	PRO	N-CA-CB	5.82	109.36	103.25
1	4v	10	MET	N-CA-C	5.82	118.67	110.23
1	4P	42	ALA	N-CA-C	5.82	118.57	111.82
1	4X	87	HIS	CB-CG-CD2	5.82	138.76	131.20
1	51	156	GLY	CA-C-N	5.82	125.19	118.85
1	51	156	GLY	C-N-CA	5.82	125.19	118.85
1	5A	84	HIS	CA-C-N	5.82	126.77	120.83
1	5A	84	HIS	C-N-CA	5.82	126.77	120.83
1	5M	33	SER	CB-CA-C	5.82	118.64	109.27
1	5N	151	LEU	CA-C-O	5.82	126.47	119.43
1	63	169	TYR	O-C-N	-5.82	115.95	122.12
1	6e	125	PRO	CA-C-O	-5.82	113.50	122.57
1	6h	88	ALA	CA-C-N	5.82	131.00	121.87
1	6h	88	ALA	C-N-CA	5.82	131.00	121.87
1	6P	116	GLY	O-C-N	-5.82	116.53	122.17
1	6X	176	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	74	200	THR	CA-C-N	5.82	127.89	120.56
1	74	200	THR	C-N-CA	5.82	127.89	120.56
1	7f	141	ILE	CA-C-O	5.82	127.34	121.17
1	7t	14	ALA	N-CA-C	5.82	117.80	110.24
1	7H	55	MET	CA-C-N	5.82	128.07	120.28
1	7H	55	MET	C-N-CA	5.82	128.07	120.28
1	7J	71	GLU	CA-C-N	5.82	128.08	120.28
1	7J	71	GLU	C-N-CA	5.82	128.08	120.28
1	7K	139	ASN	CA-C-N	5.82	128.55	120.29
1	7K	139	ASN	C-N-CA	5.82	128.55	120.29
1	82	107	THR	N-CA-C	5.82	118.09	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8b	179	GLN	CA-C-N	5.82	128.00	120.44
1	8b	179	GLN	C-N-CA	5.82	128.00	120.44
1	8k	197	ASP	CA-CB-CG	5.82	118.42	112.60
1	8x	141	ILE	N-CA-C	5.82	116.47	110.36
1	8y	120	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	8C	21	ASN	CA-CB-CG	-5.82	106.78	112.60
1	8Q	185	MET	O-C-N	-5.82	116.08	122.07
1	94	55	MET	CA-C-N	5.82	128.66	120.28
1	94	55	MET	C-N-CA	5.82	128.66	120.28
1	94	221	VAL	N-CA-C	-5.82	100.70	108.96
1	97	142	VAL	CA-C-N	5.82	128.08	120.28
1	97	142	VAL	C-N-CA	5.82	128.08	120.28
1	9f	214	MET	N-CA-C	5.82	117.62	111.28
1	9k	113	GLU	CA-C-N	5.82	128.39	120.54
1	9k	113	GLU	C-N-CA	5.82	128.39	120.54
1	9p	55	MET	CA-C-O	-5.82	114.71	120.82
1	9p	96	MET	CA-C-N	5.82	129.37	121.05
1	9p	96	MET	C-N-CA	5.82	129.37	121.05
1	9y	221	VAL	O-C-N	-5.82	115.97	122.66
1	9B	4	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	9I	171	THR	O-C-N	5.82	128.78	122.15
1	9X	117	TRP	O-C-N	-5.82	116.04	122.09
1	Z	139	ASN	CA-C-N	5.82	128.35	120.44
1	Z	139	ASN	C-N-CA	5.82	128.35	120.44
1	a0	81	ASP	CA-CB-CG	-5.82	106.78	112.60
1	ab	161	PHE	CA-C-O	-5.82	114.38	120.55
1	av	48	THR	O-C-N	-5.82	115.43	121.60
1	aK	18	ARG	NE-CZ-NH1	5.82	127.32	121.50
1	aP	143	ARG	CA-C-O	-5.82	114.71	120.82
1	aU	92	GLU	CA-C-N	5.82	127.11	119.84
1	aU	92	GLU	C-N-CA	5.82	127.11	119.84
1	aW	10	MET	N-CA-C	5.82	123.19	110.80
1	b5	126	VAL	CA-C-N	5.82	126.28	119.94
1	b5	126	VAL	C-N-CA	5.82	126.28	119.94
1	16	140	LYS	CA-C-O	5.82	126.52	119.31
1	bi	134	ILE	CA-CB-CG1	-5.82	100.51	110.40
1	bj	182	LYS	CB-CA-C	5.82	120.45	110.79
1	bz	65	ALA	CA-C-N	5.82	128.08	120.28
1	bz	65	ALA	C-N-CA	5.82	128.08	120.28
1	bT	142	VAL	CA-C-N	5.82	128.00	120.44
1	bT	142	VAL	C-N-CA	5.82	128.00	120.44
1	bV	148	THR	CA-C-N	5.82	130.07	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bV	148	THR	C-N-CA	5.82	130.07	120.94
1	c1	53	ASN	CA-C-N	5.82	128.55	120.29
1	c1	53	ASN	C-N-CA	5.82	128.55	120.29
1	c6	112	GLN	N-CA-C	5.82	117.62	111.28
1	cn	172	LEU	O-C-N	-5.82	114.43	122.46
1	co	110	THR	CA-CB-CG2	5.82	120.39	110.50
1	cw	179	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	cH	50	GLN	CA-CB-CG	5.82	125.74	114.10
1	cN	184	TRP	CB-CG-CD1	-5.82	118.17	126.90
1	d7	185	MET	O-C-N	-5.82	115.41	122.22
1	dA	61	GLY	CA-C-N	5.82	131.08	122.82
1	dA	61	GLY	C-N-CA	5.82	131.08	122.82
1	dO	223	GLY	N-CA-C	5.82	124.21	112.34
1	e4	158	LYS	CA-CB-CG	5.82	125.73	114.10
1	eh	44	SER	N-CA-C	5.82	120.38	112.88
1	ev	103	ASP	N-CA-C	5.82	117.62	111.28
1	ew	36	VAL	N-CA-C	-5.82	104.49	113.16
1	ex	1	PRO	CB-CA-C	5.82	121.15	110.10
1	ey	159	GLU	CA-C-N	5.82	127.11	119.84
1	ey	159	GLU	C-N-CA	5.82	127.11	119.84
1	eE	156	GLY	O-C-N	-5.82	115.95	121.77
1	eV	61	GLY	CA-C-N	5.82	131.23	122.68
1	eV	61	GLY	C-N-CA	5.82	131.23	122.68
1	eZ	76	GLU	N-CA-C	5.82	118.37	111.33
1	1u	86	VAL	N-CA-C	5.82	118.97	109.78
1	f1	114	GLN	CA-C-N	5.82	128.43	120.46
1	f1	114	GLN	C-N-CA	5.82	128.43	120.46
1	fc	218	CYS	N-CA-CB	5.82	121.59	112.46
1	fe	12	HIS	CA-CB-CG	5.82	119.62	113.80
1	fn	140	LYS	CA-C-N	5.82	128.10	120.60
1	fn	140	LYS	C-N-CA	5.82	128.10	120.60
1	fu	184	TRP	N-CA-C	5.82	117.62	111.28
1	fy	162	ARG	NE-CZ-NH2	-5.82	113.96	119.20
1	fF	199	LYS	CA-C-N	5.82	128.07	120.28
1	fF	199	LYS	C-N-CA	5.82	128.07	120.28
1	fG	10	MET	N-CA-CB	5.82	120.32	110.49
1	fO	28	GLU	N-CA-C	5.82	117.30	111.07
1	fO	62	HIS	CA-C-N	5.82	128.55	120.29
1	fO	62	HIS	C-N-CA	5.82	128.55	120.29
1	fO	197	ASP	CB-CA-C	-5.82	101.13	110.79
1	fW	144	MET	N-CA-C	5.82	117.70	111.36
1	1A	63	GLN	CA-C-N	-5.82	112.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	63	GLN	C-N-CA	-5.82	112.48	120.28
1	1A	102	SER	N-CA-C	5.82	118.57	111.82
1	fZ	162	ARG	O-C-N	-5.82	114.63	122.43
1	g0	36	VAL	N-CA-C	5.82	116.00	110.42
1	f	6	LEU	N-CA-C	5.82	119.99	113.01
1	u	98	GLU	CA-C-N	5.82	126.15	119.93
1	u	98	GLU	C-N-CA	5.82	126.15	119.93
1	C	52	LEU	CA-C-N	5.82	128.35	120.38
1	C	52	LEU	C-N-CA	5.82	128.35	120.38
1	3	17	PRO	N-CA-CB	-5.82	97.93	103.51
1	gq	182	LYS	CA-C-O	5.82	126.71	120.55
1	gM	2	ILE	CA-C-O	5.82	126.64	120.48
1	gS	110	THR	CA-C-O	-5.82	115.47	121.87
1	h5	64	ALA	CA-C-N	5.82	128.00	120.44
1	h5	64	ALA	C-N-CA	5.82	128.00	120.44
1	hc	4	GLN	N-CA-CB	5.82	120.32	110.49
1	hi	27	VAL	O-C-N	-5.82	115.32	122.18
1	hj	128	GLU	CA-C-O	-5.82	114.35	120.63
1	hm	163	ASP	CB-CA-C	5.82	120.44	110.79
1	hn	189	LEU	CA-C-O	5.82	126.71	120.55
1	ho	182	LYS	N-CA-C	5.82	118.57	111.82
1	hD	148	THR	CA-C-N	5.82	129.53	120.75
1	hD	148	THR	C-N-CA	5.82	129.53	120.75
1	hG	166	ASP	N-CA-C	5.82	117.62	111.28
1	hH	204	ALA	CA-C-O	5.82	126.74	119.12
1	hV	168	PHE	O-C-N	-5.82	116.04	122.09
1	hX	120	HIS	CE1-NE2-CD2	-5.82	103.19	109.00
1	i6	103	ASP	CA-C-N	5.82	128.43	120.46
1	i6	103	ASP	C-N-CA	5.82	128.43	120.46
1	i7	198	CYS	CA-C-N	5.82	128.07	120.28
1	i7	198	CYS	C-N-CA	5.82	128.07	120.28
1	ih	210	THR	CA-C-N	5.82	128.55	120.29
1	ih	210	THR	C-N-CA	5.82	128.55	120.29
1	ii	79	GLU	CA-C-N	5.82	128.07	120.28
1	ii	79	GLU	C-N-CA	5.82	128.07	120.28
1	ii	191	VAL	CA-C-O	-5.82	115.00	121.17
1	ij	113	GLU	CA-C-N	5.82	128.07	120.28
1	ij	113	GLU	C-N-CA	5.82	128.07	120.28
1	iq	150	ILE	N-CA-C	5.82	119.19	111.17
1	ir	134	ILE	N-CA-C	5.82	116.55	110.62
1	iv	156	GLY	N-CA-C	5.82	119.27	112.23
1	iB	200	THR	CA-CB-OG1	5.82	118.32	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iC	82	ARG	NH1-CZ-NH2	-5.82	111.74	119.30
1	iS	32	PHE	CA-C-O	5.82	126.70	119.78
1	iZ	124	ILE	O-C-N	5.82	126.27	120.92
1	j2	128	GLU	CA-C-N	5.82	127.89	120.56
1	j2	128	GLU	C-N-CA	5.82	127.89	120.56
1	j4	84	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	jl	86	VAL	CA-CB-CG1	5.82	120.29	110.40
1	1W	84	HIS	CB-CA-C	-5.82	104.41	110.17
1	jx	27	VAL	CA-C-O	5.82	126.53	120.25
1	jJ	154	ARG	N-CA-C	5.82	123.19	110.80
1	jO	161	PHE	O-C-N	-5.82	115.95	122.12
1	jP	22	ALA	N-CA-C	5.82	117.62	111.28
1	k2	167	ARG	CA-C-O	5.82	126.71	120.55
1	k8	62	HIS	CB-CG-CD2	-5.82	123.64	131.20
1	ki	209	ALA	N-CA-C	5.82	118.49	110.35
1	kj	138	LEU	N-CA-C	5.82	117.62	111.28
1	kC	52	LEU	O-C-N	5.82	128.28	122.12
1	kE	65	ALA	CA-C-O	-5.82	114.71	120.70
1	kF	135	ILE	CB-CA-C	5.82	119.41	111.97
1	kY	124	ILE	CA-C-N	5.82	127.11	119.84
1	kY	124	ILE	C-N-CA	5.82	127.11	119.84
1	l4	50	GLN	CA-CB-CG	5.82	125.73	114.10
1	lh	160	PRO	N-CA-C	5.82	120.21	111.14
1	lj	171	THR	O-C-N	-5.82	115.95	122.12
1	lk	195	ASN	CA-CB-CG	5.82	118.42	112.60
1	lu	12	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	lv	162	ARG	NE-CZ-NH2	-5.82	113.97	119.20
1	lw	161	PHE	CA-C-N	5.82	128.39	120.54
1	lw	161	PHE	C-N-CA	5.82	128.39	120.54
1	lw	226	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	lF	155	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	2e	154	ARG	NE-CZ-NH1	5.82	127.31	121.50
1	2f	217	ALA	N-CA-CB	5.82	118.61	109.83
1	2n	39	MET	N-CA-CB	5.82	119.18	110.22
1	2v	166	ASP	CA-C-N	5.82	128.07	120.28
1	2v	166	ASP	C-N-CA	5.82	128.07	120.28
1	2w	118	MET	N-CA-C	5.82	117.70	111.36
1	2G	180	GLU	N-CA-CB	5.82	118.67	110.12
1	2W	134	ILE	N-CA-CB	5.82	116.96	110.62
1	39	54	THR	N-CA-CB	5.82	118.67	110.12
1	3c	74	ASN	N-CA-CB	5.82	119.18	110.22
1	3l	82	ARG	N-CA-C	5.82	117.62	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3o	226	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	3t	182	LYS	CA-C-N	5.82	128.39	120.54
1	3t	182	LYS	C-N-CA	5.82	128.39	120.54
1	3z	126	VAL	N-CA-C	5.82	119.19	111.17
1	3A	56	LEU	N-CA-C	5.82	117.70	111.36
1	3B	64	ALA	O-C-N	-5.82	115.96	122.12
1	3D	98	GLU	N-CA-C	5.82	117.22	109.83
1	3M	159	GLU	O-C-N	-5.82	114.90	121.36
1	3X	216	THR	CA-CB-CG2	5.82	120.39	110.50
1	42	54	THR	CA-C-N	5.82	128.55	120.29
1	42	54	THR	C-N-CA	5.82	128.55	120.29
1	4o	179	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	4q	130	TYR	CA-C-O	5.82	126.72	120.55
1	58	41	SER	N-CA-C	5.82	117.29	111.07
1	5h	122	PRO	CA-C-N	5.82	125.58	119.76
1	5h	122	PRO	C-N-CA	5.82	125.58	119.76
1	5k	194	ALA	N-CA-C	5.82	117.56	110.41
1	5l	144	MET	CA-C-O	5.82	126.93	120.82
1	5m	162	ARG	N-CA-C	5.82	118.37	111.33
1	5D	193	ASN	CA-C-N	5.82	129.53	120.75
1	5D	193	ASN	C-N-CA	5.82	129.53	120.75
1	66	195	ASN	CA-CB-CG	-5.82	106.78	112.60
1	6b	187	GLU	N-CA-C	-5.82	104.31	111.40
1	6r	6	LEU	N-CA-CB	-5.82	101.86	110.53
1	6s	210	THR	N-CA-CB	5.82	119.29	110.45
1	6y	28	GLU	CA-C-N	5.82	128.35	120.44
1	6y	28	GLU	C-N-CA	5.82	128.35	120.44
1	6I	82	ARG	NH1-CZ-NH2	-5.82	111.74	119.30
1	7d	7	GLN	OE1-CD-NE2	-5.82	116.78	122.60
1	7o	121	ASN	CB-CA-C	-5.82	100.90	110.55
1	7z	145	TYR	CA-C-N	5.82	128.56	120.65
1	7z	145	TYR	C-N-CA	5.82	128.56	120.65
1	7F	121	ASN	O-C-N	-5.82	114.66	121.23
1	7G	67	GLN	CA-C-N	5.82	128.35	120.38
1	7G	67	GLN	C-N-CA	5.82	128.35	120.38
1	7J	211	LEU	N-CA-C	-5.82	104.94	111.28
1	7U	167	ARG	N-CA-C	5.82	117.70	111.36
1	7X	228	ALA	N-CA-C	-5.82	100.57	109.41
1	82	18	ARG	NE-CZ-NH2	5.82	124.43	119.20
1	8a	223	GLY	CA-C-N	5.82	127.11	119.84
1	8a	223	GLY	C-N-CA	5.82	127.11	119.84
1	8c	167	ARG	NE-CZ-NH1	5.82	127.32	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8r	58	THR	CA-CB-CG2	-5.82	100.61	110.50
1	8t	191	VAL	O-C-N	-5.82	116.23	121.87
1	8y	181	VAL	N-CA-C	-5.82	104.66	111.00
1	8S	110	THR	N-CA-CB	5.82	118.52	109.97
1	9g	62	HIS	O-C-N	-5.82	115.34	122.55
1	9R	24	VAL	N-CA-C	5.82	116.55	110.62
1	9Y	24	VAL	CA-C-N	5.82	128.35	120.38
1	9Y	24	VAL	C-N-CA	5.82	128.35	120.38
1	a0	105	ALA	N-CA-CB	-5.82	101.54	110.44
1	aq	20	LEU	N-CA-C	5.82	117.62	111.28
1	ay	162	ARG	NH1-CZ-NH2	-5.82	111.74	119.30
1	aF	34	PRO	N-CA-CB	5.82	109.67	103.39
1	aO	199	LYS	CA-C-O	-5.82	114.71	120.82
1	b1	87	HIS	CA-C-N	5.82	132.53	122.64
1	b1	87	HIS	C-N-CA	5.82	132.53	122.64
1	bd	70	LYS	CA-C-N	5.82	128.07	120.28
1	bd	70	LYS	C-N-CA	5.82	128.07	120.28
1	bw	14	ALA	N-CA-CB	-5.82	101.80	110.17
1	bz	226	HIS	ND1-CE1-NE2	5.82	114.22	108.40
1	bO	2	ILE	O-C-N	-5.82	117.39	123.03
1	1c	84	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	ce	9	GLN	CG-CD-NE2	5.82	125.12	116.40
1	cu	140	LYS	O-C-N	-5.82	115.52	122.15
1	cz	177	ALA	N-CA-C	5.82	118.26	110.35
1	cM	78	ALA	CA-C-N	5.82	128.00	120.44
1	cM	78	ALA	C-N-CA	5.82	128.00	120.44
1	cW	196	PRO	N-CA-C	5.82	124.45	112.47
1	d2	86	VAL	CA-C-O	5.82	127.67	121.04
1	dg	190	LEU	CB-CA-C	-5.82	101.14	110.79
1	dn	79	GLU	CA-C-N	5.82	128.07	120.28
1	dn	79	GLU	C-N-CA	5.82	128.07	120.28
1	eg	138	LEU	CA-C-N	5.82	128.07	120.28
1	eg	138	LEU	C-N-CA	5.82	128.07	120.28
1	el	226	HIS	CE1-NE2-CD2	-5.82	103.18	109.00
1	ep	139	ASN	OD1-CG-ND2	-5.82	116.78	122.60
1	ev	100	ARG	NE-CZ-NH1	5.82	127.31	121.50
1	1r	13	GLN	CB-CG-CD	5.82	122.49	112.60
1	eB	72	THR	N-CA-C	5.82	118.09	111.11
1	1s	25	LYS	CA-C-O	-5.82	113.53	120.10
1	eI	171	THR	N-CA-C	-5.82	106.02	113.23
1	eM	96	MET	CA-C-O	5.82	128.32	121.40
1	eR	205	LEU	N-CA-C	5.82	118.56	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eV	160	PRO	CA-C-N	5.82	129.15	120.31
1	eV	160	PRO	C-N-CA	5.82	129.15	120.31
1	eY	68	MET	O-C-N	-5.82	115.96	122.12
1	eZ	36	VAL	N-CA-C	5.82	116.55	110.62
1	f8	167	ARG	NE-CZ-NH2	5.82	124.43	119.20
1	fo	58	THR	N-CA-CB	5.82	119.20	110.53
1	fp	51	ASP	N-CA-CB	5.82	118.44	110.01
1	fD	210	THR	O-C-N	-5.82	116.39	122.96
1	fE	45	GLU	N-CA-C	5.82	118.66	110.23
1	fI	177	ALA	CA-C-N	5.82	130.70	120.87
1	fI	177	ALA	C-N-CA	5.82	130.70	120.87
1	fJ	98	GLU	N-CA-C	5.82	118.05	109.50
1	fO	22	ALA	CA-C-O	5.82	126.93	120.82
1	fP	65	ALA	CA-C-N	5.82	128.35	120.38
1	fP	65	ALA	C-N-CA	5.82	128.35	120.38
1	fP	85	PRO	CA-C-N	5.82	132.44	121.97
1	fP	85	PRO	C-N-CA	5.82	132.44	121.97
1	g1	176	GLN	CB-CA-C	5.82	119.99	111.73
1	j	42	ALA	N-CA-C	5.82	118.57	111.82
1	k	222	GLY	O-C-N	-5.82	115.14	122.70
1	x	126	VAL	CA-C-N	5.82	132.81	121.41
1	x	126	VAL	C-N-CA	5.82	132.81	121.41
1	z	138	LEU	N-CA-C	5.82	117.62	111.28
1	A	141	ILE	N-CA-C	5.82	117.25	110.62
1	J	74	ASN	CA-C-O	-5.82	114.39	120.55
1	L	122	PRO	N-CA-C	5.82	117.80	110.70
1	gO	104	ILE	CA-C-N	5.81	129.90	120.60
1	gO	104	ILE	C-N-CA	5.81	129.90	120.60
1	gS	144	MET	N-CA-C	5.81	118.36	111.33
1	1G	3	VAL	O-C-N	-5.81	116.92	123.03
1	h0	84	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	hI	156	GLY	O-C-N	-5.81	115.96	121.77
1	hI	182	LYS	N-CA-CB	-5.81	101.57	110.12
1	i0	100	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	id	140	LYS	N-CA-C	5.81	117.62	111.28
1	ip	226	HIS	O-C-N	5.81	130.02	122.87
1	1R	202	LEU	O-C-N	-5.81	115.96	122.12
1	iN	59	VAL	N-CA-CB	5.81	116.87	110.53
1	iO	132	ARG	CA-C-O	-5.81	114.39	120.55
1	iU	86	VAL	O-C-N	-5.81	115.30	122.97
1	j4	12	HIS	CB-CA-C	5.81	119.59	109.65
1	23	198	CYS	N-CA-C	5.81	118.36	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kG	38	PRO	O-C-N	5.81	130.12	122.27
1	kL	204	ALA	N-CA-CB	5.81	118.67	110.12
1	kU	146	SER	N-CA-C	5.81	120.20	109.10
1	l5	223	GLY	CA-C-N	5.81	127.11	119.84
1	l5	223	GLY	C-N-CA	5.81	127.11	119.84
1	lb	169	TYR	O-C-N	-5.81	115.96	122.12
1	lP	1	PRO	N-CA-CB	5.81	109.39	103.00
1	34	40	PHE	CA-C-N	5.81	128.87	120.79
1	34	40	PHE	C-N-CA	5.81	128.87	120.79
1	3a	24	VAL	N-CA-CB	5.81	116.96	110.51
1	3M	163	ASP	CA-C-N	5.81	128.35	120.44
1	3M	163	ASP	C-N-CA	5.81	128.35	120.44
1	42	14	ALA	N-CA-C	5.81	118.26	110.35
1	4d	178	SER	O-C-N	-5.81	115.66	122.81
1	4P	102	SER	O-C-N	-5.81	115.12	122.27
1	5l	133	TRP	O-C-N	-5.81	115.96	122.12
1	5n	22	ALA	CA-C-N	5.81	128.39	120.54
1	5n	22	ALA	C-N-CA	5.81	128.39	120.54
1	6l	140	LYS	N-CA-C	5.81	117.29	111.07
1	6E	13	GLN	CA-C-N	5.81	131.04	121.39
1	6E	13	GLN	C-N-CA	5.81	131.04	121.39
1	6Z	182	LYS	CA-C-N	5.81	132.64	121.54
1	6Z	182	LYS	C-N-CA	5.81	132.64	121.54
1	7B	168	PHE	CA-CB-CG	-5.81	107.99	113.80
1	7N	166	ASP	CA-C-N	5.81	128.07	120.28
1	7N	166	ASP	C-N-CA	5.81	128.07	120.28
1	82	28	GLU	N-CA-C	5.81	117.29	111.07
1	8a	92	GLU	CA-C-O	-5.81	114.36	120.70
1	8h	171	THR	N-CA-C	-5.81	104.86	111.14
1	8N	119	THR	CA-C-N	5.81	132.65	121.54
1	8N	119	THR	C-N-CA	5.81	132.65	121.54
1	9q	109	SER	N-CA-CB	5.81	120.43	111.24
1	9I	52	LEU	CA-C-N	5.81	128.39	120.54
1	9I	52	LEU	C-N-CA	5.81	128.39	120.54
1	9V	104	ILE	CA-C-O	5.81	127.01	120.85
1	a0	139	ASN	CA-C-O	-5.81	114.72	120.82
1	ar	49	PRO	CB-CA-C	-5.81	103.62	112.11
1	aW	207	PRO	CA-C-N	5.81	130.43	120.72
1	aW	207	PRO	C-N-CA	5.81	130.43	120.72
1	bi	137	GLY	O-C-N	-5.81	116.60	122.18
1	bG	203	LYS	O-C-N	-5.81	114.64	122.43
1	bI	51	ASP	CA-CB-CG	-5.81	106.79	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	41	SER	N-CA-CB	5.81	118.60	109.94
1	c5	139	ASN	CB-CG-OD1	5.81	132.43	120.80
1	cp	180	GLU	N-CA-C	5.81	117.62	111.28
1	dc	75	GLU	O-C-N	-5.81	115.98	122.03
1	dI	52	LEU	CA-C-N	5.81	128.39	120.54
1	dI	52	LEU	C-N-CA	5.81	128.39	120.54
1	dY	24	VAL	O-C-N	-5.81	116.21	121.91
1	e5	51	ASP	CA-CB-CG	-5.81	106.79	112.60
1	ec	144	MET	CA-C-O	5.81	126.58	120.42
1	el	28	GLU	N-CA-C	5.81	117.29	111.07
1	ez	202	LEU	CA-C-N	5.81	128.55	120.29
1	ez	202	LEU	C-N-CA	5.81	128.55	120.29
1	eB	48	THR	CA-CB-OG1	5.81	118.32	109.60
1	1v	223	GLY	CA-C-N	5.81	127.11	119.84
1	1v	223	GLY	C-N-CA	5.81	127.11	119.84
1	fg	99	PRO	CA-C-O	-5.81	114.82	121.56
1	fr	87	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	fz	22	ALA	O-C-N	-5.81	115.96	122.12
1	fC	22	ALA	CA-C-O	-5.81	114.68	120.90
1	fD	210	THR	CA-C-O	5.81	128.16	121.47
1	fI	60	GLY	CA-C-N	5.81	126.78	120.44
1	fI	60	GLY	C-N-CA	5.81	126.78	120.44
1	fM	173	ARG	N-CA-C	5.81	117.62	111.28
1	fN	148	THR	CA-C-O	5.81	127.97	121.40
1	n	145	TYR	CB-CG-CD2	-5.81	112.08	120.80
1	z	28	GLU	O-C-N	5.81	128.28	122.12
1	C	95	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	M	94	GLY	CA-C-N	5.81	128.07	120.28
1	M	94	GLY	C-N-CA	5.81	128.07	120.28
1	ge	146	SER	N-CA-C	5.81	122.65	109.81
1	1E	195	ASN	N-CA-C	5.81	117.02	109.64
1	gO	215	MET	N-CA-C	5.81	117.61	111.28
1	gT	25	LYS	N-CA-C	5.81	118.08	111.11
1	gW	11	VAL	N-CA-CB	5.81	116.87	110.53
1	h2	39	MET	O-C-N	-5.81	115.96	122.12
1	h8	171	THR	CA-C-N	5.81	128.34	120.38
1	h8	171	THR	C-N-CA	5.81	128.34	120.38
1	1J	37	ILE	N-CA-CB	5.81	119.35	111.21
1	hr	100	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	hR	195	ASN	CA-C-O	-5.81	114.38	120.02
1	hV	61	GLY	CA-C-N	5.81	130.39	122.19
1	hV	61	GLY	C-N-CA	5.81	130.39	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1N	8	GLY	O-C-N	-5.81	117.36	122.88
1	i5	50	GLN	N-CA-C	5.81	118.08	111.11
1	ie	121	ASN	O-C-N	-5.81	114.74	121.60
1	ik	212	GLU	CA-C-O	-5.81	114.68	120.90
1	iI	154	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	iR	167	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	iT	202	LEU	O-C-N	-5.81	116.08	122.07
1	jc	52	LEU	CA-C-O	5.81	126.58	120.42
1	jk	82	ARG	N-CA-C	5.81	117.29	111.07
1	jv	178	SER	N-CA-CB	5.81	118.57	110.26
1	jB	187	GLU	CA-C-O	5.81	126.58	120.42
1	jB	189	LEU	N-CA-C	5.81	117.61	111.28
1	jH	145	TYR	O-C-N	-5.81	114.76	122.20
1	jT	184	TRP	O-C-N	-5.81	115.96	122.12
1	kn	52	LEU	N-CA-C	5.81	117.61	111.28
1	ko	178	SER	N-CA-C	5.81	118.44	110.24
1	kz	106	GLY	CA-C-N	5.81	128.32	120.65
1	kz	106	GLY	C-N-CA	5.81	128.32	120.65
1	kI	213	GLU	CA-C-N	5.81	128.54	120.29
1	kI	213	GLU	C-N-CA	5.81	128.54	120.29
1	l1	12	HIS	CB-CG-CD2	-5.81	123.64	131.20
1	lg	204	ALA	N-CA-C	5.81	117.70	111.36
1	ln	140	LYS	N-CA-C	5.81	117.61	111.28
1	ln	203	LYS	N-CA-C	5.81	118.84	111.69
1	lv	29	GLU	N-CA-C	5.81	118.56	111.82
1	2a	70	LYS	CA-C-N	5.81	128.00	120.44
1	2a	70	LYS	C-N-CA	5.81	128.00	120.44
1	2g	203	LYS	N-CA-C	5.81	117.69	111.36
1	2p	224	PRO	N-CA-CB	5.81	109.35	103.25
1	2C	125	PRO	CA-C-N	5.81	128.42	120.46
1	2C	125	PRO	C-N-CA	5.81	128.42	120.46
1	2O	70	LYS	N-CA-C	5.81	118.08	111.11
1	2R	86	VAL	O-C-N	-5.81	117.21	123.14
1	2R	165	VAL	CA-C-N	5.81	128.32	120.65
1	2R	165	VAL	C-N-CA	5.81	128.32	120.65
1	2W	11	VAL	CA-CB-CG2	5.81	120.28	110.40
1	36	194	ALA	N-CA-CB	5.81	118.58	110.04
1	3h	23	TRP	N-CA-CB	-5.81	101.54	110.20
1	3Z	195	ASN	CB-CA-C	5.81	121.62	110.17
1	4a	190	LEU	CA-C-N	5.81	128.42	120.46
1	4a	190	LEU	C-N-CA	5.81	128.42	120.46
1	4b	178	SER	CA-C-N	5.81	128.54	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4b	178	SER	C-N-CA	5.81	128.54	120.29
1	4w	142	VAL	N-CA-C	5.81	116.00	110.42
1	54	34	PRO	CA-C-N	5.81	130.43	120.72
1	54	34	PRO	C-N-CA	5.81	130.43	120.72
1	64	129	ILE	N-CA-C	5.81	116.55	110.62
1	6x	132	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	6y	84	HIS	CB-CA-C	-5.81	105.21	110.44
1	6K	215	MET	CG-SD-CE	-5.81	88.11	100.90
1	6R	103	ASP	N-CA-CB	5.81	118.76	110.16
1	70	162	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	78	98	GLU	O-C-N	-5.81	115.47	121.28
1	7a	109	SER	N-CA-C	5.81	119.02	110.59
1	7b	171	THR	N-CA-C	5.81	118.39	111.71
1	7L	173	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	7Q	158	LYS	CG-CD-CE	5.81	124.67	111.30
1	7U	33	SER	CA-C-N	5.81	125.52	119.82
1	7U	33	SER	C-N-CA	5.81	125.52	119.82
1	8h	130	TYR	O-C-N	-5.81	115.52	122.15
1	8I	106	GLY	CA-C-O	5.81	125.08	118.86
1	8J	31	ALA	O-C-N	-5.81	114.86	122.59
1	8O	129	ILE	O-C-N	-5.81	116.13	121.94
1	93	121	ASN	CA-C-O	-5.81	115.02	119.32
1	97	18	ARG	NH1-CZ-NH2	-5.81	111.75	119.30
1	98	79	GLU	CA-C-N	5.81	128.07	120.28
1	98	79	GLU	C-N-CA	5.81	128.07	120.28
1	9g	84	HIS	CA-C-N	5.81	126.15	119.93
1	9g	84	HIS	C-N-CA	5.81	126.15	119.93
1	9y	171	THR	CA-C-N	5.81	128.07	120.28
1	9y	171	THR	C-N-CA	5.81	128.07	120.28
1	9z	40	PHE	N-CA-C	5.81	117.29	111.07
1	a8	7	GLN	CG-CD-NE2	-5.81	107.68	116.40
1	ad	212	GLU	CA-C-O	-5.81	114.72	120.82
1	11	99	PRO	N-CA-C	5.81	120.31	111.19
1	au	162	ARG	CB-CG-CD	5.81	124.67	111.30
1	aD	121	ASN	CA-CB-CG	5.81	118.41	112.60
1	aS	51	ASP	CA-C-O	-5.81	114.72	120.82
1	aS	132	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	b2	54	THR	O-C-N	5.81	128.06	122.07
1	bC	201	ILE	CA-C-O	-5.81	114.49	120.71
1	bI	12	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	bN	18	ARG	O-C-N	5.81	128.28	122.12
1	bP	123	PRO	N-CA-CB	5.81	108.36	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	27	VAL	N-CA-C	5.81	116.00	110.42
1	cg	20	LEU	N-CA-C	5.81	117.69	111.36
1	cF	118	MET	CA-C-N	5.81	131.91	122.67
1	cF	118	MET	C-N-CA	5.81	131.91	122.67
1	cP	59	VAL	CA-C-N	5.81	128.79	122.16
1	cP	59	VAL	C-N-CA	5.81	128.79	122.16
1	1i	185	MET	N-CA-CB	-5.81	101.27	110.28
1	dd	193	ASN	CA-C-O	5.81	126.70	119.78
1	df	7	GLN	CA-C-O	5.81	127.55	120.92
1	dG	54	THR	CA-C-O	5.81	126.58	120.42
1	1o	6	LEU	N-CA-CB	-5.81	100.64	110.41
1	ed	76	GLU	O-C-N	-5.81	115.96	122.12
1	ej	129	ILE	O-C-N	-5.81	115.95	121.94
1	eq	104	ILE	N-CA-C	-5.81	104.85	110.72
1	ew	197	ASP	O-C-N	-5.81	115.52	122.15
1	eD	65	ALA	CA-C-N	5.81	128.07	120.28
1	eD	65	ALA	C-N-CA	5.81	128.07	120.28
1	eF	42	ALA	N-CA-C	5.81	117.61	111.28
1	eW	171	THR	O-C-N	-5.81	115.53	122.15
1	f4	51	ASP	CA-C-N	5.81	128.07	120.28
1	f4	51	ASP	C-N-CA	5.81	128.07	120.28
1	fb	101	GLY	O-C-N	-5.81	116.53	122.17
1	fH	12	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	fK	151	LEU	N-CA-C	5.81	118.39	111.71
1	fL	212	GLU	N-CA-CB	-5.81	101.58	110.12
1	fO	203	LYS	O-C-N	-5.81	116.08	122.07
1	fR	163	ASP	CA-C-N	5.81	128.07	120.28
1	fR	163	ASP	C-N-CA	5.81	128.07	120.28
1	fT	118	MET	CA-C-O	5.81	126.65	119.79
1	g6	29	GLU	O-C-N	5.81	128.13	122.09
1	g6	205	LEU	N-CA-C	5.81	117.42	111.14
1	l	120	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	m	118	MET	CG-SD-CE	-5.81	88.11	100.90
1	o	67	GLN	CA-C-N	5.81	128.34	120.44
1	o	67	GLN	C-N-CA	5.81	128.34	120.44
1	r	84	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	y	92	GLU	N-CA-C	5.81	117.02	109.64
1	X	99	PRO	CB-CA-C	5.81	117.91	111.11
1	5	192	GLN	N-CA-C	5.81	117.29	111.07
1	8	198	CYS	O-C-N	5.81	128.28	122.12
1	1D	42	ALA	O-C-N	-5.81	115.96	122.12
1	1D	92	GLU	N-CA-C	5.81	122.65	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gL	42	ALA	CA-C-O	-5.81	114.72	120.82
1	hr	141	ILE	O-C-N	5.81	127.94	121.90
1	hA	20	LEU	N-CA-C	5.81	117.29	111.07
1	hC	179	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	hX	178	SER	N-CA-C	5.81	118.25	110.35
1	hZ	101	GLY	O-C-N	-5.81	116.53	122.17
1	iM	193	ASN	O-C-N	-5.81	114.89	122.39
1	iZ	12	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	j4	192	GLN	O-C-N	-5.81	115.53	122.15
1	j6	219	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	j7	8	GLY	N-CA-C	-5.81	106.59	115.66
1	jq	212	GLU	N-CA-C	5.81	117.61	111.28
1	kV	102	SER	O-C-N	-5.81	115.53	122.15
1	kY	113	GLU	O-C-N	-5.81	115.53	122.15
1	l0	139	ASN	CA-C-O	5.81	126.71	120.55
1	lg	7	GLN	O-C-N	-5.81	114.80	122.47
1	lh	227	LYS	CA-C-O	-5.81	115.23	121.56
1	lI	141	ILE	CB-CA-C	5.81	119.63	112.02
1	lJ	132	ARG	CB-CA-C	-5.81	101.14	110.79
1	2s	121	ASN	CA-CB-CG	5.81	118.41	112.60
1	2B	105	ALA	N-CA-C	5.81	120.23	113.20
1	2P	175	GLU	N-CA-C	-5.81	102.17	110.59
1	35	48	THR	N-CA-CB	5.81	116.62	109.59
1	35	129	ILE	N-CA-CB	5.81	117.35	110.55
1	4j	100	ARG	O-C-N	-5.81	115.00	122.20
1	4x	226	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	4N	130	TYR	N-CA-C	5.81	117.61	111.28
1	4O	36	VAL	O-C-N	-5.81	115.84	121.83
1	56	23	TRP	N-CA-C	5.81	117.61	111.28
1	5n	124	ILE	N-CA-CB	5.81	118.17	111.31
1	5K	123	PRO	CA-C-N	5.81	129.47	122.85
1	5K	123	PRO	C-N-CA	5.81	129.47	122.85
1	5R	58	THR	CA-CB-CG2	-5.81	100.62	110.50
1	6w	176	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	6x	57	ASN	CB-CG-ND2	5.81	125.12	116.40
1	6B	227	LYS	CA-C-N	-5.81	114.50	122.93
1	6B	227	LYS	C-N-CA	-5.81	114.50	122.93
1	6K	110	THR	CA-CB-OG1	5.81	118.32	109.60
1	6K	229	ARG	NE-CZ-NH2	5.81	124.43	119.20
1	73	97	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	7g	109	SER	O-C-N	-5.81	116.27	123.36
1	83	229	ARG	NE-CZ-NH1	5.81	127.31	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	86	188	THR	N-CA-C	-5.81	102.68	111.34
1	8G	219	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	8N	52	LEU	O-C-N	-5.81	115.53	122.15
1	9u	24	VAL	O-C-N	-5.81	115.23	121.80
1	9v	72	THR	CB-CA-C	-5.81	100.97	110.85
1	9P	216	THR	CA-C-N	5.81	132.93	122.64
1	9P	216	THR	C-N-CA	5.81	132.93	122.64
1	9Y	107	THR	N-CA-C	-5.81	104.54	111.69
1	ak	210	THR	O-C-N	-5.81	116.43	122.94
1	an	217	ALA	CA-C-N	5.81	131.11	122.74
1	an	217	ALA	C-N-CA	5.81	131.11	122.74
1	ax	78	ALA	CA-C-O	-5.81	114.39	120.55
1	bW	62	HIS	CA-CB-CG	5.81	119.61	113.80
1	bW	93	PRO	CA-C-O	-5.81	114.99	121.32
1	c0	192	GLN	CA-C-O	5.81	126.58	120.42
1	cp	132	ARG	NH1-CZ-NH2	-5.81	111.75	119.30
1	1k	120	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	dq	184	TRP	CB-CG-CD2	-5.81	118.67	126.80
1	dM	107	THR	CA-C-N	5.81	131.61	122.49
1	dM	107	THR	C-N-CA	5.81	131.61	122.49
1	er	99	PRO	O-C-N	-5.81	115.76	122.85
1	f1	10	MET	CG-SD-CE	-5.81	88.11	100.90
1	fc	87	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	fE	37	ILE	N-CA-CB	5.81	114.41	110.52
1	fE	115	ILE	CA-C-N	5.81	126.56	119.99
1	fE	115	ILE	C-N-CA	5.81	126.56	119.99
1	fK	66	MET	N-CA-C	5.81	117.61	111.28
1	g6	214	MET	N-CA-C	5.81	117.29	111.07
1	u	152	ASP	CA-C-O	5.81	128.82	120.51
1	gb	15	ILE	O-C-N	-5.81	116.32	122.83
1	gd	202	LEU	O-C-N	-5.81	116.09	122.07
1	gI	107	THR	CA-C-N	5.81	131.50	122.26
1	gI	107	THR	C-N-CA	5.81	131.50	122.26
1	gI	140	LYS	O-C-N	-5.81	116.05	122.09
1	gQ	118	MET	O-C-N	-5.81	114.65	122.43
1	gT	5	ASN	N-CA-C	-5.81	106.32	113.41
1	h0	177	ALA	O-C-N	-5.81	117.20	123.42
1	hd	89	GLY	CA-C-O	-5.81	115.52	121.62
1	hf	155	GLN	N-CA-C	5.81	118.78	110.24
1	hi	213	GLU	CA-C-N	5.81	128.38	120.54
1	hi	213	GLU	C-N-CA	5.81	128.38	120.54
1	hA	133	TRP	O-C-N	-5.81	115.96	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hB	50	GLN	CA-C-N	5.81	128.34	120.44
1	hB	50	GLN	C-N-CA	5.81	128.34	120.44
1	hM	67	GLN	O-C-N	-5.81	115.12	122.27
1	hU	218	CYS	CA-C-N	5.81	128.54	120.29
1	hU	218	CYS	C-N-CA	5.81	128.54	120.29
1	hZ	217	ALA	N-CA-C	5.81	118.65	110.23
1	i2	7	GLN	O-C-N	-5.81	115.95	122.34
1	i2	70	LYS	CA-C-O	5.81	126.71	120.55
1	i3	70	LYS	CA-C-O	5.81	126.65	119.97
1	im	51	ASP	CA-CB-CG	-5.81	106.79	112.60
1	ip	164	TYR	N-CA-C	5.81	117.61	111.28
1	iB	169	TYR	O-C-N	-5.81	115.42	122.22
1	iC	87	HIS	CB-CG-CD2	-5.81	123.65	131.20
1	iD	19	THR	CA-C-O	5.81	126.71	120.55
1	iH	52	LEU	CA-C-N	5.81	128.06	120.28
1	iH	52	LEU	C-N-CA	5.81	128.06	120.28
1	iQ	148	THR	CA-C-O	5.81	124.91	118.52
1	iW	165	VAL	N-CA-C	5.81	116.55	110.62
1	iW	172	LEU	CA-C-N	5.81	128.06	120.28
1	iW	172	LEU	C-N-CA	5.81	128.06	120.28
1	1T	179	GLN	CA-C-N	5.81	128.07	120.28
1	1T	179	GLN	C-N-CA	5.81	128.07	120.28
1	j7	21	ASN	O-C-N	5.81	129.41	122.27
1	jo	144	MET	CA-C-N	5.81	130.72	122.24
1	jo	144	MET	C-N-CA	5.81	130.72	122.24
1	jx	170	LYS	N-CA-C	5.81	118.08	111.11
1	jF	173	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	jF	176	GLN	CA-C-N	5.81	132.63	121.54
1	jF	176	GLN	C-N-CA	5.81	132.63	121.54
1	jI	167	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	jJ	77	ALA	N-CA-C	5.81	117.29	111.07
1	kh	151	LEU	O-C-N	-5.81	114.44	122.46
1	kJ	198	CYS	O-C-N	-5.81	116.09	122.07
1	kO	60	GLY	CA-C-O	5.81	125.46	119.01
1	kT	155	GLN	CB-CG-CD	5.81	122.48	112.60
1	l1	202	LEU	CA-C-N	5.81	128.06	120.28
1	l1	202	LEU	C-N-CA	5.81	128.06	120.28
1	l5	182	LYS	O-C-N	-5.81	116.09	122.07
1	l9	192	GLN	CG-CD-NE2	-5.81	107.69	116.40
1	lc	87	HIS	N-CA-C	5.81	118.78	110.24
1	lt	154	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	lC	214	MET	N-CA-C	5.81	118.36	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lL	185	MET	CG-SD-CE	-5.81	88.12	100.90
1	2b	195	ASN	CB-CA-C	5.81	118.62	109.27
1	2t	179	GLN	N-CA-C	5.81	118.36	111.33
1	2D	154	ARG	N-CA-C	5.81	117.79	110.24
1	2R	66	MET	CA-C-N	5.81	128.06	120.28
1	2R	66	MET	C-N-CA	5.81	128.06	120.28
1	3h	197	ASP	CA-CB-CG	5.81	118.41	112.60
1	3o	41	SER	O-C-N	5.81	128.28	122.12
1	3q	39	MET	N-CA-CB	5.81	118.59	109.94
1	3C	114	GLN	CB-CA-C	-5.81	101.76	110.88
1	3G	72	THR	N-CA-C	5.81	117.29	111.07
1	3I	221	VAL	CA-C-O	5.81	126.22	119.36
1	3M	117	TRP	CA-C-O	5.81	126.53	119.38
1	3O	153	ILE	N-CA-CB	-5.81	105.59	112.39
1	3P	211	LEU	CA-C-N	5.81	128.38	120.54
1	3P	211	LEU	C-N-CA	5.81	128.38	120.54
1	3S	92	GLU	O-C-N	-5.81	115.04	121.66
1	44	62	HIS	CA-C-N	5.81	128.38	120.54
1	44	62	HIS	C-N-CA	5.81	128.38	120.54
1	48	5	ASN	N-CA-C	-5.81	102.31	110.50
1	4e	147	PRO	O-C-N	-5.81	116.13	123.10
1	4j	199	LYS	CA-C-N	5.81	128.07	120.28
1	4j	199	LYS	C-N-CA	5.81	128.07	120.28
1	4n	25	LYS	CB-CA-C	-5.81	101.15	110.79
1	4o	191	VAL	CA-C-N	5.81	129.14	120.31
1	4o	191	VAL	C-N-CA	5.81	129.14	120.31
1	4w	173	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	4w	191	VAL	CA-CB-CG2	-5.81	100.53	110.40
1	4B	19	THR	CA-C-N	5.81	128.06	120.28
1	4B	19	THR	C-N-CA	5.81	128.06	120.28
1	4O	87	HIS	O-C-N	-5.81	115.78	122.93
1	4P	183	ASN	CA-C-N	5.81	127.99	120.44
1	4P	183	ASN	C-N-CA	5.81	127.99	120.44
1	5w	165	VAL	O-C-N	-5.81	116.23	121.87
1	5F	131	LYS	CB-CA-C	5.81	120.43	110.79
1	5N	104	ILE	N-CA-C	5.81	116.55	110.62
1	5S	191	VAL	N-CA-CB	5.81	118.44	110.54
1	5W	32	PHE	N-CA-C	-5.81	104.36	113.02
1	66	40	PHE	O-C-N	-5.81	115.96	122.12
1	68	54	THR	CA-C-O	-5.81	114.72	120.82
1	69	70	LYS	CA-C-N	5.81	127.99	120.44
1	69	70	LYS	C-N-CA	5.81	127.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	120	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	6B	122	PRO	CA-C-N	5.81	127.10	119.84
1	6B	122	PRO	C-N-CA	5.81	127.10	119.84
1	6M	10	MET	CB-CA-C	5.81	119.53	111.63
1	6W	149	SER	N-CA-CB	5.81	120.31	110.49
1	70	8	GLY	CA-C-O	5.81	126.24	122.23
1	75	155	GLN	O-C-N	-5.81	117.20	123.42
1	7b	206	GLY	O-C-N	5.81	127.58	121.77
1	7i	149	SER	CA-C-O	-5.81	115.23	121.56
1	7k	17	PRO	N-CA-C	-5.81	105.61	113.40
1	7q	13	GLN	O-C-N	-5.81	116.30	123.33
1	7O	67	GLN	CA-C-O	5.81	126.71	120.55
1	84	191	VAL	N-CA-C	5.81	116.55	110.62
1	85	138	LEU	N-CA-C	-5.81	105.03	111.36
1	8d	165	VAL	CA-C-N	5.81	128.07	120.28
1	8d	165	VAL	C-N-CA	5.81	128.07	120.28
1	8l	55	MET	CG-SD-CE	-5.81	88.12	100.90
1	8o	162	ARG	CA-C-O	-5.81	114.26	120.42
1	8u	78	ALA	CA-C-O	5.81	126.92	120.82
1	8B	17	PRO	CA-C-N	5.81	128.06	120.28
1	8B	17	PRO	C-N-CA	5.81	128.06	120.28
1	8H	161	PHE	CA-C-O	5.81	126.69	120.70
1	8T	227	LYS	N-CA-C	5.81	118.25	110.35
1	8W	120	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	90	221	VAL	O-C-N	-5.81	116.36	122.81
1	9j	149	SER	N-CA-CB	5.81	118.51	109.97
1	9m	164	TYR	CA-C-N	5.81	128.42	120.46
1	9m	164	TYR	C-N-CA	5.81	128.42	120.46
1	9p	92	GLU	N-CA-C	5.81	121.41	113.16
1	9L	107	THR	CA-C-O	-5.81	112.75	119.78
1	9V	221	VAL	O-C-N	-5.81	116.77	122.99
1	9Y	139	ASN	CA-C-N	5.81	127.99	120.44
1	9Y	139	ASN	C-N-CA	5.81	127.99	120.44
1	9Z	26	VAL	CA-C-N	5.81	127.88	120.56
1	9Z	26	VAL	C-N-CA	5.81	127.88	120.56
1	a1	33	SER	CA-C-N	5.81	127.10	119.84
1	a1	33	SER	C-N-CA	5.81	127.10	119.84
1	aI	47	ALA	N-CA-C	5.81	118.78	110.24
1	aK	7	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	aX	37	ILE	N-CA-C	5.81	119.93	112.67
1	bn	123	PRO	N-CA-CB	-5.81	97.15	103.25
1	bB	57	ASN	CA-CB-CG	5.81	118.41	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bK	196	PRO	CA-C-N	5.81	128.07	120.28
1	bK	196	PRO	C-N-CA	5.81	128.07	120.28
1	bM	202	LEU	N-CA-C	5.81	117.61	111.28
1	bQ	43	LEU	CA-C-O	5.81	126.52	119.49
1	cc	166	ASP	CA-C-N	5.81	128.06	120.28
1	cc	166	ASP	C-N-CA	5.81	128.06	120.28
1	ce	117	TRP	CB-CG-CD2	5.81	134.93	126.80
1	cl	128	GLU	CA-C-N	5.81	128.00	120.56
1	cl	128	GLU	C-N-CA	5.81	128.00	120.56
1	1e	179	GLN	N-CA-C	5.81	117.61	111.28
1	cq	195	ASN	N-CA-C	5.81	117.21	109.83
1	cF	211	LEU	CA-C-O	5.81	126.71	120.55
1	cX	224	PRO	N-CA-C	5.81	120.35	111.11
1	da	17	PRO	CA-C-N	5.81	128.54	120.29
1	da	17	PRO	C-N-CA	5.81	128.54	120.29
1	dj	150	ILE	CA-C-N	5.81	128.06	120.28
1	dj	150	ILE	C-N-CA	5.81	128.06	120.28
1	dm	75	GLU	CA-C-O	5.81	126.58	120.42
1	dp	125	PRO	O-C-N	-5.81	114.80	122.64
1	dq	168	PHE	CA-C-O	5.81	126.58	120.42
1	dw	84	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	dC	54	THR	CA-C-N	5.81	128.06	120.28
1	dC	54	THR	C-N-CA	5.81	128.06	120.28
1	dE	54	THR	CA-C-N	5.81	128.38	120.54
1	dE	54	THR	C-N-CA	5.81	128.38	120.54
1	dM	169	TYR	N-CA-C	5.81	117.61	111.28
1	dZ	170	LYS	CA-C-N	5.81	128.06	120.28
1	dZ	170	LYS	C-N-CA	5.81	128.06	120.28
1	e1	194	ALA	O-C-N	-5.81	116.17	122.79
1	ea	131	LYS	CA-C-N	5.81	128.06	120.28
1	ea	131	LYS	C-N-CA	5.81	128.06	120.28
1	ei	33	SER	CA-C-N	5.81	125.91	119.87
1	ei	33	SER	C-N-CA	5.81	125.91	119.87
1	em	15	ILE	CA-C-N	5.81	128.47	120.39
1	em	15	ILE	C-N-CA	5.81	128.47	120.39
1	em	115	ILE	N-CA-CB	5.81	118.44	110.54
1	eq	168	PHE	CB-CA-C	5.81	120.00	110.88
1	es	177	ALA	N-CA-C	5.81	119.24	110.64
1	ez	98	GLU	N-CA-C	5.81	117.84	109.48
1	eB	103	ASP	CA-CB-CG	-5.81	106.79	112.60
1	eH	21	ASN	CA-CB-CG	-5.81	106.79	112.60
1	eJ	45	GLU	CA-C-O	5.81	128.82	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eK	217	ALA	O-C-N	-5.81	115.88	122.68
1	eS	186	THR	CB-CA-C	-5.81	101.76	110.88
1	eZ	74	ASN	CA-C-N	5.81	128.38	120.54
1	eZ	74	ASN	C-N-CA	5.81	128.38	120.54
1	1u	226	HIS	CB-CG-CD2	-5.81	123.65	131.20
1	f1	120	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	f3	195	ASN	CA-C-N	5.81	127.10	119.84
1	f3	195	ASN	C-N-CA	5.81	127.10	119.84
1	fe	12	HIS	N-CA-CB	5.81	118.51	109.97
1	fe	63	GLN	CG-CD-NE2	5.81	125.11	116.40
1	ff	178	SER	O-C-N	-5.81	115.38	122.82
1	fg	65	ALA	O-C-N	5.81	128.28	122.12
1	1x	19	THR	O-C-N	-5.81	115.53	122.15
1	1z	150	ILE	N-CA-C	5.81	119.19	111.17
1	fQ	98	GLU	N-CA-C	5.81	117.02	109.64
1	1B	90	PRO	N-CA-C	5.81	119.64	111.33
1	l	86	VAL	CA-CB-CG1	5.81	120.28	110.40
1	o	80	TRP	O-C-N	-5.81	116.08	122.07
1	T	82	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	U	12	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	6	95	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	gk	82	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	gu	62	HIS	ND1-CG-CD2	5.81	111.91	106.10
1	gB	55	MET	CA-C-O	5.81	127.11	120.90
1	gI	70	LYS	N-CA-C	5.81	119.18	111.75
1	h8	205	LEU	CA-C-N	5.81	130.99	121.87
1	h8	205	LEU	C-N-CA	5.81	130.99	121.87
1	hd	137	GLY	N-CA-C	5.81	119.67	112.64
1	hf	13	GLN	CA-C-O	-5.81	114.53	121.56
1	1I	189	LEU	O-C-N	-5.81	115.96	122.12
1	hj	34	PRO	CA-C-N	5.81	131.30	121.14
1	hj	34	PRO	C-N-CA	5.81	131.30	121.14
1	hx	139	ASN	CA-CB-CG	5.81	118.41	112.60
1	hF	61	GLY	N-CA-C	-5.81	105.11	112.54
1	hY	210	THR	CA-C-O	5.81	127.54	121.15
1	i5	76	GLU	N-CA-C	5.81	118.36	111.33
1	i6	149	SER	CA-C-N	5.81	130.14	120.62
1	i6	149	SER	C-N-CA	5.81	130.14	120.62
1	ia	87	HIS	ND1-CG-CD2	5.81	111.91	106.10
1	io	205	LEU	CA-C-O	5.81	126.52	119.38
1	is	229	ARG	N-CA-CB	5.81	118.60	109.83
1	iG	177	ALA	CA-C-N	5.81	132.63	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iG	177	ALA	C-N-CA	5.81	132.63	121.54
1	iJ	36	VAL	N-CA-C	5.81	118.31	111.05
1	iK	200	THR	CA-CB-OG1	5.81	118.31	109.60
1	j9	130	TYR	O-C-N	-5.81	115.42	122.22
1	1U	48	THR	N-CA-C	-5.81	102.58	110.36
1	jc	75	GLU	N-CA-C	5.81	117.69	111.36
1	jm	138	LEU	O-C-N	-5.81	115.53	122.15
1	jo	132	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	jx	55	MET	N-CA-C	5.81	117.61	111.28
1	jS	70	LYS	N-CA-C	5.81	118.56	111.82
1	jT	99	PRO	O-C-N	-5.81	118.61	122.73
1	k0	185	MET	O-C-N	-5.81	115.96	122.12
1	k4	174	ALA	CA-C-O	5.81	126.33	119.48
1	k4	225	GLY	N-CA-C	5.81	121.45	111.98
1	kS	114	GLN	N-CA-C	5.81	117.28	111.07
1	l1	57	ASN	OD1-CG-ND2	-5.81	116.79	122.60
1	l6	72	THR	CA-CB-OG1	5.81	118.31	109.60
1	lh	100	ARG	N-CA-C	5.81	118.02	110.53
1	ln	50	GLN	N-CA-C	5.81	118.08	111.11
1	lp	214	MET	N-CA-C	5.81	117.41	111.14
1	29	29	GLU	N-CA-C	5.81	117.30	110.97
1	2a	114	GLN	N-CA-C	5.81	117.61	111.28
1	2g	40	PHE	N-CA-CB	5.81	118.59	109.94
1	2q	42	ALA	N-CA-C	5.81	117.61	111.28
1	2x	102	SER	N-CA-C	5.81	118.36	111.33
1	2x	171	THR	CB-CA-C	-5.81	100.98	110.85
1	2y	30	LYS	CB-CA-C	5.81	119.14	109.38
1	2F	164	TYR	CA-C-O	-5.81	114.72	120.82
1	2P	72	THR	CA-C-O	-5.81	114.72	120.70
1	2S	145	TYR	CA-C-N	5.81	127.35	120.09
1	2S	145	TYR	C-N-CA	5.81	127.35	120.09
1	3l	120	HIS	N-CA-C	5.81	117.79	110.24
1	3q	45	GLU	N-CA-C	5.81	118.61	109.96
1	3x	190	LEU	N-CA-C	5.81	117.61	111.28
1	3F	15	ILE	O-C-N	-5.81	117.16	122.79
1	3N	18	ARG	CD-NE-CZ	5.81	132.53	124.40
1	3R	195	ASN	CA-CB-CG	5.81	118.41	112.60
1	40	143	ARG	N-CA-C	5.81	117.61	111.28
1	47	230	VAL	CB-CA-C	-5.81	103.75	111.13
1	4l	20	LEU	CA-C-N	5.81	128.06	120.28
1	4l	20	LEU	C-N-CA	5.81	128.06	120.28
1	4x	126	VAL	N-CA-C	5.81	116.54	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4M	120	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
1	4W	69	LEU	CA-C-N	5.81	128.64	120.28
1	4W	69	LEU	C-N-CA	5.81	128.64	120.28
1	59	33	SER	CA-C-O	-5.81	115.16	120.50
1	5b	166	ASP	CA-CB-CG	5.81	118.41	112.60
1	5i	145	TYR	N-CA-C	5.81	118.36	111.33
1	5y	93	PRO	CA-C-O	-5.81	114.80	121.36
1	5J	97	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	5R	198	CYS	O-C-N	-5.81	114.55	122.33
1	5V	13	GLN	CA-C-O	-5.81	114.55	121.11
1	5X	86	VAL	CB-CA-C	5.81	119.59	111.34
1	65	11	VAL	CA-C-N	5.81	128.96	120.71
1	65	11	VAL	C-N-CA	5.81	128.96	120.71
1	6g	188	THR	CA-C-N	5.81	128.06	120.28
1	6g	188	THR	C-N-CA	5.81	128.06	120.28
1	6h	120	HIS	CA-C-N	5.81	129.90	122.64
1	6h	120	HIS	C-N-CA	5.81	129.90	122.64
1	6j	137	GLY	CA-C-N	5.81	128.06	120.28
1	6j	137	GLY	C-N-CA	5.81	128.06	120.28
1	6l	12	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	6m	45	GLU	CB-CA-C	5.81	116.94	109.80
1	6v	59	VAL	O-C-N	-5.81	116.14	122.64
1	6A	12	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	6D	87	HIS	ND1-CE1-NE2	5.81	114.21	108.40
1	6T	173	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	70	134	ILE	N-CA-CB	5.81	118.00	110.57
1	7o	172	LEU	CA-C-O	5.81	126.52	119.38
1	7U	117	TRP	CB-CG-CD2	5.81	134.93	126.80
1	80	84	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	86	42	ALA	CA-C-N	5.81	129.14	120.31
1	86	42	ALA	C-N-CA	5.81	129.14	120.31
1	88	209	ALA	CA-C-O	5.81	126.93	120.43
1	8i	70	LYS	CA-C-O	5.81	126.68	120.70
1	8z	80	TRP	CG-CD2-CE3	-5.81	128.09	133.90
1	8H	83	LEU	CA-C-N	5.81	129.48	120.60
1	8H	83	LEU	C-N-CA	5.81	129.48	120.60
1	8P	167	ARG	NE-CZ-NH1	5.81	127.31	121.50
1	8Q	111	LEU	N-CA-C	5.81	117.61	111.28
1	8R	99	PRO	N-CA-CB	5.81	109.35	103.25
1	9i	88	ALA	N-CA-C	5.81	119.72	109.96
1	9Z	201	ILE	CA-C-N	5.81	128.06	120.28
1	9Z	201	ILE	C-N-CA	5.81	128.06	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a8	35	GLU	CA-C-N	5.81	130.15	120.62
1	a8	35	GLU	C-N-CA	5.81	130.15	120.62
1	af	110	THR	CA-C-N	5.81	128.34	120.38
1	af	110	THR	C-N-CA	5.81	128.34	120.38
1	aj	121	ASN	CA-C-O	-5.81	112.22	119.54
1	aB	181	VAL	CA-C-O	5.81	126.99	120.95
1	aF	161	PHE	CA-CB-CG	5.81	119.61	113.80
1	aP	15	ILE	CA-CB-CG1	5.81	120.27	110.40
1	aX	59	VAL	N-CA-C	5.81	116.51	108.84
1	aX	160	PRO	CA-C-N	5.81	128.06	120.28
1	aX	160	PRO	C-N-CA	5.81	128.06	120.28
1	aZ	200	THR	CA-C-N	5.81	127.88	120.56
1	aZ	200	THR	C-N-CA	5.81	127.88	120.56
1	b0	134	ILE	O-C-N	-5.81	115.85	121.83
1	b2	90	PRO	N-CA-CB	-5.81	98.14	103.31
1	bs	24	VAL	CA-C-O	5.81	126.80	119.48
1	bC	32	PHE	CA-C-O	5.81	127.70	121.02
1	bQ	135	ILE	CA-CB-CG1	5.81	120.27	110.40
1	bY	56	LEU	N-CA-C	5.81	118.08	111.11
1	c9	148	THR	CA-CB-OG1	5.81	118.31	109.60
1	ci	165	VAL	CA-C-O	-5.81	115.23	121.27
1	cy	16	SER	CA-C-N	5.81	125.67	119.28
1	cy	16	SER	C-N-CA	5.81	125.67	119.28
1	1g	40	PHE	N-CA-C	5.81	117.61	111.28
1	cK	43	LEU	CA-C-O	5.81	126.51	119.31
1	cU	101	GLY	CA-C-N	5.81	128.06	120.28
1	cU	101	GLY	C-N-CA	5.81	128.06	120.28
1	d1	66	MET	N-CA-C	5.81	117.61	111.28
1	d9	10	MET	CG-SD-CE	-5.81	88.12	100.90
1	dk	73	ILE	O-C-N	-5.81	116.24	121.87
1	dl	178	SER	CA-C-O	5.81	127.29	120.96
1	dp	165	VAL	O-C-N	-5.81	116.13	121.94
1	dx	150	ILE	CA-C-N	5.81	128.64	120.28
1	dx	150	ILE	C-N-CA	5.81	128.64	120.28
1	1l	120	HIS	CA-CB-CG	-5.81	107.99	113.80
1	dL	184	TRP	CA-C-N	5.81	128.38	120.54
1	dL	184	TRP	C-N-CA	5.81	128.38	120.54
1	dM	127	GLY	O-C-N	-5.81	116.61	122.19
1	e7	218	CYS	CA-C-N	5.81	129.14	120.31
1	e7	218	CYS	C-N-CA	5.81	129.14	120.31
1	eh	176	GLN	CA-C-N	5.81	128.96	120.71
1	eh	176	GLN	C-N-CA	5.81	128.96	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	en	98	GLU	N-CA-C	5.81	117.91	109.84
1	en	101	GLY	O-C-N	-5.81	116.08	122.24
1	es	161	PHE	CB-CA-C	5.81	120.38	110.74
1	et	90	PRO	CB-CA-C	5.81	117.89	111.56
1	eJ	174	ALA	N-CA-C	-5.81	104.86	112.41
1	fb	161	PHE	CA-CB-CG	5.81	119.61	113.80
1	fw	123	PRO	N-CA-CB	-5.81	98.14	103.25
1	fE	48	THR	CA-CB-OG1	5.81	118.31	109.60
1	fZ	162	ARG	NE-CZ-NH1	-5.81	115.69	121.50
1	c	174	ALA	CA-C-N	5.81	129.01	120.82
1	c	174	ALA	C-N-CA	5.81	129.01	120.82
1	h	148	THR	CA-C-N	5.81	129.52	120.75
1	h	148	THR	C-N-CA	5.81	129.52	120.75
1	j	215	MET	N-CA-C	5.81	117.61	111.28
1	q	138	LEU	CA-C-O	-5.81	113.29	119.97
1	r	51	ASP	CA-CB-CG	5.81	118.41	112.60
1	r	84	HIS	CA-CB-CG	5.81	119.61	113.80
1	C	73	ILE	CA-C-N	5.81	128.54	120.29
1	C	73	ILE	C-N-CA	5.81	128.54	120.29
1	C	105	ALA	CA-C-N	5.81	130.99	122.10
1	C	105	ALA	C-N-CA	5.81	130.99	122.10
1	U	201	ILE	O-C-N	-5.81	115.85	121.83
1	V	169	TYR	CA-C-N	5.81	128.54	120.29
1	V	169	TYR	C-N-CA	5.81	128.54	120.29
1	W	223	GLY	CA-C-N	5.81	127.10	119.84
1	W	223	GLY	C-N-CA	5.81	127.10	119.84
1	X	12	HIS	N-CA-C	-5.81	99.54	109.24
1	gk	226	HIS	CG-CD2-NE2	5.81	113.01	107.20
1	gJ	216	THR	CA-C-N	5.81	129.09	120.90
1	gJ	216	THR	C-N-CA	5.81	129.09	120.90
1	i1	50	GLN	OE1-CD-NE2	5.81	128.41	122.60
1	i4	214	MET	N-CA-C	5.81	123.17	110.80
1	ie	191	VAL	CA-CB-CG2	-5.81	100.53	110.40
1	jm	82	ARG	NH1-CZ-NH2	-5.81	111.75	119.30
1	k8	47	ALA	CB-CA-C	5.81	119.58	109.65
1	k8	229	ARG	CA-C-O	5.81	128.33	121.36
1	kB	131	LYS	O-C-N	-5.81	115.97	122.12
1	kL	161	PHE	CB-CA-C	5.81	120.10	110.81
1	kV	26	VAL	CA-C-N	5.81	127.88	120.56
1	kV	26	VAL	C-N-CA	5.81	127.88	120.56
1	lm	221	VAL	O-C-N	-5.81	116.47	122.63
1	lE	132	ARG	O-C-N	-5.81	115.13	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2l	95	GLN	N-CA-C	5.81	117.08	108.60
1	2y	16	SER	CA-C-O	5.81	125.21	119.75
1	2z	174	ALA	CA-C-N	5.81	129.52	120.75
1	2z	174	ALA	C-N-CA	5.81	129.52	120.75
1	2O	48	THR	CA-C-N	5.81	127.10	119.84
1	2O	48	THR	C-N-CA	5.81	127.10	119.84
1	3b	54	THR	N-CA-C	-5.81	105.03	111.36
1	47	157	PRO	N-CA-CB	5.81	109.94	103.44
1	4a	99	PRO	N-CA-C	5.81	120.32	111.15
1	4d	28	GLU	CA-C-N	5.81	128.53	120.29
1	4d	28	GLU	C-N-CA	5.81	128.53	120.29
1	4G	86	VAL	N-CA-CB	5.81	117.45	110.95
1	5a	6	LEU	N-CA-C	5.81	117.41	111.14
1	5G	110	THR	CA-C-N	5.81	128.06	120.28
1	5G	110	THR	C-N-CA	5.81	128.06	120.28
1	5U	18	ARG	CA-C-N	5.81	128.34	120.44
1	5U	18	ARG	C-N-CA	5.81	128.34	120.44
1	6k	18	ARG	CD-NE-CZ	-5.81	116.27	124.40
1	6T	139	ASN	N-CA-CB	-5.81	101.35	110.06
1	7e	29	GLU	O-C-N	-5.81	115.13	122.27
1	7e	45	GLU	N-CA-C	5.81	118.43	110.24
1	7o	163	ASP	N-CA-C	5.81	117.61	111.28
1	7O	101	GLY	CA-C-N	5.81	129.13	120.31
1	7O	101	GLY	C-N-CA	5.81	129.13	120.31
1	7T	171	THR	CA-C-N	5.81	128.06	120.28
1	7T	171	THR	C-N-CA	5.81	128.06	120.28
1	8P	37	ILE	CA-C-N	5.81	125.01	118.97
1	8P	37	ILE	C-N-CA	5.81	125.01	118.97
1	8S	123	PRO	CA-C-O	5.81	127.65	121.03
1	8Y	203	LYS	CA-C-O	-5.81	114.39	120.55
1	9b	164	TYR	CA-C-O	-5.81	114.72	120.82
1	9x	150	ILE	CA-C-N	5.81	129.14	120.31
1	9x	150	ILE	C-N-CA	5.81	129.14	120.31
1	9D	2	ILE	O-C-N	-5.81	116.36	122.81
1	a0	27	VAL	N-CA-C	5.81	116.46	110.36
1	ad	73	ILE	N-CA-C	5.81	116.54	110.62
1	ap	12	HIS	CB-CG-CD2	-5.81	123.65	131.20
1	aD	5	ASN	CA-CB-CG	-5.81	106.79	112.60
1	aH	91	ILE	N-CA-C	5.81	116.58	110.72
1	aL	166	ASP	CA-CB-CG	5.81	118.41	112.60
1	16	204	ALA	CA-C-O	5.81	126.57	120.42
1	b9	62	HIS	ND1-CG-CD2	5.81	111.91	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bi	17	PRO	N-CA-C	-5.81	106.60	113.86
1	c5	97	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	ca	150	ILE	N-CA-C	5.81	118.31	111.05
1	ce	97	ARG	NE-CZ-NH2	-5.81	113.97	119.20
1	cl	156	GLY	O-C-N	-5.81	115.96	121.77
1	cs	63	GLN	O-C-N	5.81	130.11	122.33
1	cD	201	ILE	O-C-N	-5.81	113.33	122.04
1	dM	96	MET	N-CA-C	5.81	118.48	110.35
1	dT	210	THR	O-C-N	-5.81	115.89	122.68
1	e5	98	GLU	O-C-N	-5.81	115.32	121.30
1	ef	29	GLU	CB-CA-C	5.81	120.55	110.79
1	eK	71	GLU	N-CA-C	5.81	117.41	111.14
1	fg	95	GLN	OE1-CD-NE2	-5.81	116.79	122.60
1	fv	218	CYS	CA-C-N	5.81	130.72	121.66
1	fv	218	CYS	C-N-CA	5.81	130.72	121.66
1	fO	16	SER	CA-C-O	-5.81	113.98	120.25
1	fU	36	VAL	CA-C-N	5.81	126.00	120.43
1	fU	36	VAL	C-N-CA	5.81	126.00	120.43
1	o	72	THR	N-CA-C	5.81	117.61	111.28
1	6	206	GLY	CA-C-N	5.81	127.10	119.84
1	6	206	GLY	C-N-CA	5.81	127.10	119.84
1	g8	67	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	gg	2	ILE	CB-CA-C	5.80	118.81	110.33
1	gj	148	THR	CA-CB-CG2	-5.80	100.63	110.50
1	gt	49	PRO	N-CA-CB	5.80	109.88	103.26
1	gC	129	ILE	CA-C-N	5.80	127.98	120.44
1	gC	129	ILE	C-N-CA	5.80	127.98	120.44
1	gE	98	GLU	O-C-N	-5.80	116.26	121.31
1	gO	108	THR	CA-CB-OG1	5.80	118.31	109.60
1	h4	210	THR	O-C-N	-5.80	116.23	122.85
1	hc	94	GLY	CA-C-N	5.80	128.38	120.54
1	hc	94	GLY	C-N-CA	5.80	128.38	120.54
1	hh	66	MET	N-CA-CB	5.80	118.43	110.01
1	hz	36	VAL	CA-C-N	5.80	123.90	120.24
1	hz	36	VAL	C-N-CA	5.80	123.90	120.24
1	hC	12	HIS	CA-CB-CG	-5.80	108.00	113.80
1	i0	100	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	ih	109	SER	O-C-N	-5.80	116.44	122.94
1	iq	110	THR	N-CA-CB	5.80	120.03	110.97
1	iq	176	GLN	O-C-N	-5.80	115.17	122.19
1	iC	18	ARG	CA-C-O	5.80	126.70	120.55
1	iC	21	ASN	CA-C-O	5.80	126.70	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1S	139	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	j6	221	VAL	CA-CB-CG2	5.80	120.27	110.40
1	jh	18	ARG	NE-CZ-NH1	5.80	127.31	121.50
1	1V	123	PRO	N-CA-C	5.80	120.19	111.14
1	jo	103	ASP	N-CA-C	5.80	117.28	111.07
1	1W	199	LYS	N-CA-C	5.80	118.07	111.11
1	jw	38	PRO	N-CA-CB	5.80	109.67	103.52
1	jw	100	ARG	CA-C-N	5.80	127.39	120.14
1	jw	100	ARG	C-N-CA	5.80	127.39	120.14
1	jG	21	ASN	O-C-N	-5.80	115.97	122.12
1	jK	143	ARG	N-CA-C	5.80	118.35	111.33
1	1Y	12	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	jT	46	GLY	CA-C-N	5.80	128.95	120.71
1	jT	46	GLY	C-N-CA	5.80	128.95	120.71
1	jW	206	GLY	CA-C-N	5.80	126.75	120.83
1	jW	206	GLY	C-N-CA	5.80	126.75	120.83
1	1Z	104	ILE	N-CA-C	5.80	116.58	110.72
1	k6	130	TYR	CA-C-N	5.80	128.06	120.28
1	k6	130	TYR	C-N-CA	5.80	128.06	120.28
1	kI	23	TRP	CB-CG-CD1	-5.80	118.19	126.90
1	kO	193	ASN	O-C-N	-5.80	115.37	122.34
1	kP	92	GLU	N-CA-C	5.80	121.43	113.77
1	la	197	ASP	CB-CA-C	-5.80	101.04	110.79
1	lg	65	ALA	CA-C-N	5.80	128.53	120.29
1	lg	65	ALA	C-N-CA	5.80	128.53	120.29
1	lr	70	LYS	O-C-N	-5.80	115.97	122.12
1	lw	82	ARG	CA-C-O	5.80	126.70	120.55
1	lE	92	GLU	N-CA-C	5.80	117.91	109.84
1	lK	20	LEU	N-CA-C	5.80	117.28	111.07
1	2C	117	TRP	CA-C-N	5.80	128.53	120.29
1	2C	117	TRP	C-N-CA	5.80	128.53	120.29
1	2T	105	ALA	CA-C-O	5.80	126.72	119.12
1	30	124	ILE	N-CA-C	-5.80	101.39	107.60
1	3e	67	GLN	CA-C-O	-5.80	114.27	120.42
1	3f	81	ASP	N-CA-CB	5.80	119.28	110.28
1	3i	104	ILE	O-C-N	5.80	127.74	121.94
1	3Q	95	GLN	CA-C-N	5.80	128.95	120.71
1	3Q	95	GLN	C-N-CA	5.80	128.95	120.71
1	4a	117	TRP	CE3-CZ3-CH2	-5.80	113.56	121.10
1	4c	53	ASN	CA-CB-CG	-5.80	106.80	112.60
1	4u	108	THR	CA-CB-OG1	5.80	118.31	109.60
1	4y	32	PHE	CA-CB-CG	-5.80	108.00	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4N	96	MET	CB-CA-C	5.80	119.25	111.82
1	5k	112	GLN	O-C-N	-5.80	115.53	122.15
1	5s	132	ARG	CB-CA-C	5.80	119.99	110.88
1	5v	142	VAL	CB-CA-C	-5.80	104.21	112.22
1	5G	156	GLY	CA-C-N	5.80	127.09	119.84
1	5G	156	GLY	C-N-CA	5.80	127.09	119.84
1	5J	43	LEU	N-CA-C	5.80	119.46	112.38
1	5P	77	ALA	CA-C-N	5.80	128.06	120.28
1	5P	77	ALA	C-N-CA	5.80	128.06	120.28
1	5S	162	ARG	O-C-N	-5.80	115.97	122.12
1	5U	16	SER	CA-C-O	-5.80	114.99	119.46
1	65	54	THR	CA-C-O	-5.80	114.73	120.82
1	6s	112	GLN	N-CA-C	5.80	117.61	111.28
1	6v	4	GLN	CA-C-N	5.80	130.64	122.46
1	6v	4	GLN	C-N-CA	5.80	130.64	122.46
1	6z	166	ASP	N-CA-CB	-5.80	101.59	110.01
1	6C	27	VAL	CA-C-O	5.80	126.52	120.25
1	6E	170	LYS	CA-C-N	5.80	127.99	120.44
1	6E	170	LYS	C-N-CA	5.80	127.99	120.44
1	7n	216	THR	CA-C-O	5.80	126.69	119.78
1	7o	185	MET	CA-C-O	5.80	126.68	120.70
1	7r	177	ALA	CA-C-N	5.80	128.95	120.71
1	7r	177	ALA	C-N-CA	5.80	128.95	120.71
1	7u	105	ALA	CA-C-O	5.80	126.30	119.28
1	7Q	111	LEU	CA-C-N	5.80	128.06	120.28
1	7Q	111	LEU	C-N-CA	5.80	128.06	120.28
1	7S	119	THR	CA-CB-OG1	5.80	118.31	109.60
1	87	142	VAL	N-CA-C	5.80	116.58	110.72
1	8p	34	PRO	CB-CA-C	5.80	119.06	110.88
1	8u	68	MET	N-CA-CB	5.80	119.16	110.22
1	8A	53	ASN	CA-C-N	5.80	127.99	120.44
1	8A	53	ASN	C-N-CA	5.80	127.99	120.44
1	8H	3	VAL	N-CA-C	-5.80	100.22	108.58
1	8H	120	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	8H	125	PRO	CA-C-N	5.80	130.28	120.64
1	8H	125	PRO	C-N-CA	5.80	130.28	120.64
1	8U	216	THR	CA-CB-OG1	5.80	118.31	109.60
1	93	93	PRO	N-CA-CB	5.80	108.36	103.25
1	94	133	TRP	O-C-N	5.80	128.27	122.12
1	9g	219	GLN	N-CA-C	5.80	118.42	110.24
1	9j	37	ILE	N-CA-C	5.80	121.42	108.88
1	9n	143	ARG	O-C-N	-5.80	115.38	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9q	86	VAL	CB-CA-C	5.80	117.87	111.08
1	9z	39	MET	CA-C-O	5.80	126.57	120.42
1	9z	98	GLU	N-CA-CB	5.80	119.47	110.01
1	9B	194	ALA	N-CA-C	5.80	117.78	110.24
1	9C	189	LEU	CA-C-N	5.80	128.33	120.38
1	9C	189	LEU	C-N-CA	5.80	128.33	120.38
1	9E	86	VAL	CA-C-O	5.80	127.27	120.71
1	9V	57	ASN	CA-CB-CG	5.80	118.41	112.60
1	aa	135	ILE	O-C-N	-5.80	116.24	121.87
1	ae	27	VAL	N-CA-C	5.80	116.54	110.62
1	ak	112	GLN	O-C-N	-5.80	115.97	122.12
1	aG	199	LYS	N-CA-CB	5.80	118.65	110.12
1	aH	17	PRO	CA-C-O	-5.80	110.88	119.18
1	aL	195	ASN	CA-C-N	5.80	127.10	119.84
1	aL	195	ASN	C-N-CA	5.80	127.10	119.84
1	aM	180	GLU	O-C-N	-5.80	115.97	122.12
1	b4	199	LYS	N-CA-CB	-5.80	101.59	110.12
1	bA	12	HIS	O-C-N	5.80	129.86	123.01
1	bP	117	TRP	CA-C-N	5.80	128.06	120.28
1	bP	117	TRP	C-N-CA	5.80	128.06	120.28
1	co	120	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	cu	36	VAL	N-CA-C	-5.80	103.66	111.44
1	cw	123	PRO	CA-C-N	-5.80	116.98	123.02
1	cw	123	PRO	C-N-CA	-5.80	116.98	123.02
1	cx	27	VAL	CA-C-O	5.80	126.99	120.95
1	1f	123	PRO	CB-CA-C	5.80	118.82	111.39
1	cJ	68	MET	CA-C-O	5.80	126.70	120.55
1	dh	206	GLY	CA-C-N	5.80	125.34	119.19
1	dh	206	GLY	C-N-CA	5.80	125.34	119.19
1	dy	184	TRP	N-CA-CB	5.80	118.43	110.01
1	ea	108	THR	CA-CB-OG1	5.80	118.31	109.60
1	eg	63	GLN	N-CA-C	5.80	118.55	111.82
1	eo	86	VAL	CA-C-N	5.80	130.49	121.26
1	eo	86	VAL	C-N-CA	5.80	130.49	121.26
1	eD	62	HIS	ND1-CG-CD2	5.80	111.90	106.10
1	eK	40	PHE	CA-CB-CG	-5.80	108.00	113.80
1	eM	169	TYR	CB-CG-CD1	5.80	129.51	120.80
1	f9	201	ILE	CA-C-O	5.80	126.99	120.95
1	1v	181	VAL	O-C-N	-5.80	116.20	121.89
1	fa	117	TRP	N-CA-C	5.80	118.35	111.33
1	fa	120	HIS	CA-C-O	5.80	127.70	121.55
1	fc	125	PRO	CA-C-N	5.80	128.41	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fc	125	PRO	C-N-CA	5.80	128.41	120.46
1	fe	165	VAL	O-C-N	-5.80	116.20	121.89
1	fh	12	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	fl	54	THR	CA-C-O	-5.80	114.40	120.55
1	1y	86	VAL	O-C-N	-5.80	116.99	123.26
1	fF	142	VAL	CA-C-O	-5.80	114.61	121.05
1	fF	221	VAL	CA-C-O	5.80	126.50	119.54
1	fG	66	MET	O-C-N	5.80	129.01	122.22
1	fY	228	ALA	CA-C-O	5.80	126.33	119.48
1	g6	57	ASN	CA-CB-CG	-5.80	106.80	112.60
1	g6	143	ARG	NE-CZ-NH1	5.80	127.31	121.50
1	d	132	ARG	O-C-N	-5.80	115.97	122.12
1	g	153	ILE	CA-C-O	5.80	126.22	119.89
1	h	107	THR	N-CA-C	5.80	117.61	111.28
1	q	129	ILE	O-C-N	-5.80	116.22	121.91
1	w	228	ALA	CA-C-N	5.80	130.37	122.19
1	w	228	ALA	C-N-CA	5.80	130.37	122.19
1	R	152	ASP	O-C-N	-5.80	115.35	122.20
1	gc	197	ASP	CA-CB-CG	5.80	118.40	112.60
1	gq	125	PRO	CA-C-N	5.80	128.09	120.60
1	gq	125	PRO	C-N-CA	5.80	128.09	120.60
1	gq	188	THR	CA-C-N	5.80	128.33	120.38
1	gq	188	THR	C-N-CA	5.80	128.33	120.38
1	gu	133	TRP	CA-C-O	5.80	126.64	119.97
1	h2	33	SER	O-C-N	-5.80	117.79	121.85
1	hk	162	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	hr	5	ASN	N-CA-C	5.80	118.66	109.96
1	hs	17	PRO	N-CA-CB	5.80	109.34	103.25
1	hs	173	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	i2	99	PRO	O-C-N	5.80	128.56	122.93
1	i6	132	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	ip	200	THR	CA-C-N	5.80	127.99	120.56
1	ip	200	THR	C-N-CA	5.80	127.99	120.56
1	j5	18	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	j8	15	ILE	O-C-N	-5.80	116.28	122.61
1	ja	141	ILE	CA-C-N	5.80	128.09	120.60
1	ja	141	ILE	C-N-CA	5.80	128.09	120.60
1	jc	89	GLY	O-C-N	5.80	127.57	121.77
1	je	202	LEU	N-CA-C	5.80	117.28	111.07
1	jr	128	GLU	O-C-N	-5.80	115.97	122.12
1	jP	4	GLN	O-C-N	-5.80	116.42	123.27
1	jZ	39	MET	N-CA-C	5.80	117.61	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k4	9	GLN	N-CA-C	5.80	118.64	110.23
1	kN	35	GLU	N-CA-C	5.80	117.69	111.36
1	kR	166	ASP	N-CA-CB	-5.80	101.59	110.12
1	l0	210	THR	N-CA-C	-5.80	100.48	109.24
1	l1	209	ALA	N-CA-C	5.80	118.03	110.43
1	lD	14	ALA	O-C-N	-5.80	115.67	122.81
1	2h	74	ASN	CA-CB-CG	-5.80	106.80	112.60
1	2l	66	MET	CA-C-N	5.80	128.06	120.28
1	2l	66	MET	C-N-CA	5.80	128.06	120.28
1	2x	66	MET	CG-SD-CE	-5.80	88.13	100.90
1	2F	149	SER	CA-C-N	5.80	129.64	120.47
1	2F	149	SER	C-N-CA	5.80	129.64	120.47
1	3q	127	GLY	CA-C-N	5.80	128.06	120.28
1	3q	127	GLY	C-N-CA	5.80	128.06	120.28
1	3w	154	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	3M	33	SER	CB-CA-C	-5.80	103.68	110.76
1	3X	115	ILE	O-C-N	-5.80	116.24	121.87
1	41	58	THR	O-C-N	-5.80	115.43	122.22
1	42	62	HIS	O-C-N	-5.80	114.81	122.47
1	43	215	MET	CG-SD-CE	-5.80	88.13	100.90
1	46	173	ARG	N-CA-C	5.80	118.55	111.82
1	49	19	THR	CA-C-N	5.80	128.53	120.29
1	49	19	THR	C-N-CA	5.80	128.53	120.29
1	4f	117	TRP	CA-C-N	5.80	128.53	120.29
1	4f	117	TRP	C-N-CA	5.80	128.53	120.29
1	4h	126	VAL	CA-C-O	5.80	126.74	120.47
1	4l	24	VAL	N-CA-C	5.80	116.45	110.36
1	4s	201	ILE	CA-C-N	5.80	127.98	120.44
1	4s	201	ILE	C-N-CA	5.80	127.98	120.44
1	4D	17	PRO	CA-C-N	5.80	128.06	120.28
1	4D	17	PRO	C-N-CA	5.80	128.06	120.28
1	4K	133	TRP	CH2-CZ2-CE2	5.80	125.04	117.50
1	5a	102	SER	N-CA-C	5.80	117.61	111.28
1	5r	76	GLU	CA-C-N	5.80	128.06	120.28
1	5r	76	GLU	C-N-CA	5.80	128.06	120.28
1	5G	50	GLN	CA-C-O	5.80	126.70	120.55
1	5M	62	HIS	CB-CG-CD2	-5.80	123.66	131.20
1	5M	198	CYS	CA-C-N	5.80	127.98	120.44
1	5M	198	CYS	C-N-CA	5.80	127.98	120.44
1	69	82	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	6n	23	TRP	CZ3-CH2-CZ2	-5.80	113.96	121.50
1	6p	173	ARG	NH1-CZ-NH2	-5.80	111.76	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6F	26	VAL	N-CA-C	5.80	116.45	110.36
1	6H	109	SER	CA-C-O	5.80	127.79	121.06
1	6J	143	ARG	CB-CA-C	5.80	119.99	110.88
1	72	42	ALA	CA-C-O	5.80	126.57	120.42
1	72	116	GLY	CA-C-O	-5.80	114.77	120.75
1	7H	199	LYS	N-CA-CB	-5.80	101.59	110.12
1	7J	171	THR	CA-C-N	5.80	128.06	120.28
1	7J	171	THR	C-N-CA	5.80	128.06	120.28
1	7Z	113	GLU	CA-C-N	5.80	128.06	120.28
1	7Z	113	GLU	C-N-CA	5.80	128.06	120.28
1	8v	211	LEU	N-CA-C	5.80	118.38	111.71
1	9i	126	VAL	CA-C-N	5.80	126.38	120.00
1	9i	126	VAL	C-N-CA	5.80	126.38	120.00
1	9t	183	ASN	N-CA-CB	-5.80	101.57	110.16
1	a3	44	SER	N-CA-C	5.80	119.98	113.02
1	av	26	VAL	CA-C-N	5.80	128.41	120.46
1	av	26	VAL	C-N-CA	5.80	128.41	120.46
1	aB	210	THR	N-CA-CB	5.80	119.87	110.41
1	bm	5	ASN	O-C-N	-5.80	115.69	123.23
1	by	202	LEU	N-CA-C	5.80	118.38	111.71
1	bD	151	LEU	N-CA-C	5.80	120.06	113.15
1	bS	173	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	cc	61	GLY	N-CA-C	5.80	120.03	112.25
1	ci	9	GLN	CA-C-N	5.80	131.21	122.68
1	ci	9	GLN	C-N-CA	5.80	131.21	122.68
1	co	195	ASN	O-C-N	-5.80	114.93	121.43
1	cr	84	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	ct	54	THR	O-C-N	5.80	128.36	122.09
1	cy	136	LEU	O-C-N	-5.80	116.09	122.07
1	cE	115	ILE	CA-C-N	5.80	126.38	119.94
1	cE	115	ILE	C-N-CA	5.80	126.38	119.94
1	do	11	VAL	O-C-N	-5.80	117.14	123.18
1	dO	226	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	dP	230	VAL	O-C-N	-5.80	115.28	122.88
1	dU	165	VAL	CA-C-N	5.80	127.98	120.44
1	dU	165	VAL	C-N-CA	5.80	127.98	120.44
1	e6	29	GLU	CA-C-O	-5.80	112.76	118.97
1	eq	144	MET	CA-C-O	5.80	126.54	119.11
1	ez	22	ALA	N-CA-C	5.80	117.61	111.28
1	eD	32	PHE	CA-C-O	5.80	126.58	120.54
1	eD	62	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	eG	171	THR	N-CA-CB	5.80	118.75	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	210	THR	CA-C-N	5.80	128.85	120.38
1	eS	210	THR	C-N-CA	5.80	128.85	120.38
1	eX	63	GLN	N-CA-C	5.80	117.61	111.28
1	fn	59	VAL	CA-C-O	-5.80	114.46	121.54
1	1y	120	HIS	CA-CB-CG	5.80	119.60	113.80
1	fG	51	ASP	CA-C-N	5.80	128.06	120.28
1	fG	51	ASP	C-N-CA	5.80	128.06	120.28
1	fJ	100	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	m	96	MET	CA-C-O	-5.80	114.81	121.19
1	H	212	GLU	O-C-N	-5.80	115.97	122.12
1	U	180	GLU	CA-C-N	5.80	128.41	120.46
1	U	180	GLU	C-N-CA	5.80	128.41	120.46
1	1D	68	MET	CA-C-N	5.80	128.37	120.54
1	1D	68	MET	C-N-CA	5.80	128.37	120.54
1	gs	55	MET	N-CA-C	5.80	117.68	111.36
1	gu	116	GLY	O-C-N	-5.80	116.61	122.18
1	gC	68	MET	N-CA-C	5.80	117.28	111.07
1	gD	39	MET	CA-C-N	5.80	128.05	120.28
1	gD	39	MET	C-N-CA	5.80	128.05	120.28
1	gF	10	MET	CG-SD-CE	-5.80	88.14	100.90
1	gW	170	LYS	O-C-N	-5.80	115.87	122.08
1	h5	84	HIS	O-C-N	-5.80	114.51	121.12
1	ha	124	ILE	CA-C-O	5.80	122.37	119.12
1	hc	1	PRO	CA-C-N	5.80	130.81	123.10
1	hc	1	PRO	C-N-CA	5.80	130.81	123.10
1	1I	88	ALA	O-C-N	-5.80	115.85	123.28
1	hh	181	VAL	CA-C-N	5.80	127.98	120.44
1	hh	181	VAL	C-N-CA	5.80	127.98	120.44
1	hA	164	TYR	N-CA-C	5.80	118.38	111.71
1	hO	50	GLN	CA-C-N	5.80	127.98	120.44
1	hO	50	GLN	C-N-CA	5.80	127.98	120.44
1	hQ	27	VAL	N-CA-CB	5.80	118.00	110.57
1	hT	72	THR	N-CA-C	5.80	117.28	111.07
1	1N	104	ILE	O-C-N	-5.80	115.86	121.83
1	i6	110	THR	CA-C-N	5.80	128.06	120.28
1	i6	110	THR	C-N-CA	5.80	128.06	120.28
1	id	65	ALA	CA-C-O	-5.80	113.30	119.97
1	io	88	ALA	CB-CA-C	-5.80	99.54	110.16
1	iv	115	ILE	N-CA-C	-5.80	103.67	111.44
1	1Q	75	GLU	N-CA-CB	-5.80	101.59	110.12
1	iG	214	MET	N-CA-C	5.80	118.38	111.71
1	iQ	8	GLY	CA-C-N	5.80	130.71	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	8	GLY	C-N-CA	5.80	130.71	121.66
1	iR	44	SER	O-C-N	-5.80	115.21	122.35
1	j0	53	ASN	CA-CB-CG	-5.80	106.80	112.60
1	j6	27	VAL	CB-CA-C	-5.80	104.54	111.97
1	j6	157	PRO	N-CA-C	-5.80	106.44	114.27
1	jh	125	PRO	CA-C-N	5.80	128.09	120.60
1	jh	125	PRO	C-N-CA	5.80	128.09	120.60
1	jh	138	LEU	CA-C-N	5.80	128.06	120.28
1	jh	138	LEU	C-N-CA	5.80	128.06	120.28
1	jj	70	LYS	N-CA-C	5.80	117.60	111.28
1	jk	66	MET	CA-C-O	5.80	126.66	120.10
1	jo	126	VAL	CA-C-O	-5.80	115.24	121.27
1	jP	2	ILE	O-C-N	5.80	129.08	122.93
1	jR	169	TYR	CA-CB-CG	-5.80	103.46	113.90
1	k9	124	ILE	CB-CA-C	-5.80	105.57	111.08
1	kg	21	ASN	CA-CB-CG	-5.80	106.80	112.60
1	22	31	ALA	O-C-N	-5.80	114.88	122.59
1	kE	114	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	kM	42	ALA	O-C-N	-5.80	115.97	122.12
1	kQ	85	PRO	CA-C-N	5.80	129.30	120.13
1	kQ	85	PRO	C-N-CA	5.80	129.30	120.13
1	l2	13	GLN	CA-C-N	5.80	129.08	120.90
1	l2	13	GLN	C-N-CA	5.80	129.08	120.90
1	le	48	THR	N-CA-CB	5.80	118.12	109.88
1	lu	72	THR	O-C-N	-5.80	116.09	122.07
1	lE	76	GLU	CA-C-N	5.80	128.37	120.54
1	lE	76	GLU	C-N-CA	5.80	128.37	120.54
1	lM	14	ALA	N-CA-C	5.80	118.64	110.23
1	lQ	74	ASN	O-C-N	-5.80	114.66	122.43
1	2d	82	ARG	CB-CG-CD	5.80	124.65	111.30
1	2d	96	MET	O-C-N	-5.80	116.18	122.79
1	2r	53	ASN	CA-C-N	5.80	127.98	120.44
1	2r	53	ASN	C-N-CA	5.80	127.98	120.44
1	2s	139	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	2A	131	LYS	O-C-N	-5.80	115.97	122.12
1	34	128	GLU	N-CA-C	5.80	117.60	111.28
1	3n	157	PRO	CA-C-N	5.80	132.62	121.54
1	3n	157	PRO	C-N-CA	5.80	132.62	121.54
1	3s	55	MET	O-C-N	-5.80	115.97	122.12
1	3E	29	GLU	CB-CG-CD	5.80	122.46	112.60
1	4a	229	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	4h	201	ILE	CA-C-O	5.80	127.00	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4n	67	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	4q	12	HIS	CA-CB-CG	-5.80	108.00	113.80
1	4w	26	VAL	N-CA-C	5.80	115.99	110.42
1	4w	204	ALA	N-CA-C	5.80	117.28	111.07
1	4y	72	THR	CA-C-N	5.80	128.41	120.46
1	4y	72	THR	C-N-CA	5.80	128.41	120.46
1	4E	46	GLY	CA-C-N	5.80	130.37	122.19
1	4E	46	GLY	C-N-CA	5.80	130.37	122.19
1	4E	83	LEU	N-CA-CB	-5.80	101.57	110.16
1	4L	229	ARG	CA-C-O	-5.80	114.43	121.28
1	4P	54	THR	CA-CB-OG1	5.80	118.30	109.60
1	57	58	THR	N-CA-CB	5.80	119.27	110.28
1	5f	106	GLY	O-C-N	-5.80	115.65	122.38
1	5g	32	PHE	CB-CG-CD1	5.80	130.56	120.70
1	5X	72	THR	O-C-N	-5.80	116.09	122.07
1	6k	24	VAL	CA-C-O	-5.80	114.92	120.95
1	6p	152	ASP	CA-C-O	5.80	126.57	120.42
1	6s	18	ARG	CA-C-O	5.80	126.57	120.42
1	6t	82	ARG	CA-C-O	-5.80	114.27	120.42
1	6w	41	SER	CA-C-N	5.80	127.98	120.44
1	6w	41	SER	C-N-CA	5.80	127.98	120.44
1	6D	107	THR	N-CA-CB	5.80	120.08	110.33
1	6T	115	ILE	N-CA-CB	5.80	118.00	110.57
1	6Y	83	LEU	CB-CA-C	-5.80	98.18	110.31
1	70	200	THR	N-CA-CB	5.80	118.42	110.01
1	7m	223	GLY	CA-C-O	-5.80	113.22	121.52
1	7p	18	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	7D	12	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	7H	226	HIS	N-CA-C	5.80	118.68	110.50
1	7J	106	GLY	CA-C-O	5.80	125.56	119.06
1	7L	9	GLN	CB-CA-C	-5.80	99.73	109.48
1	8c	56	LEU	O-C-N	-5.80	115.14	122.27
1	8d	148	THR	CA-C-O	5.80	126.63	120.36
1	8r	182	LYS	O-C-N	-5.80	116.06	122.09
1	8w	37	ILE	CA-CB-CG2	-5.80	100.64	110.50
1	8w	94	GLY	CA-C-O	5.80	126.68	119.25
1	8y	125	PRO	CA-C-N	5.80	128.41	120.46
1	8y	125	PRO	C-N-CA	5.80	128.41	120.46
1	8A	40	PHE	CA-C-N	5.80	127.98	120.44
1	8A	40	PHE	C-N-CA	5.80	127.98	120.44
1	8I	123	PRO	O-C-N	-5.80	115.89	122.91
1	8U	204	ALA	CA-C-N	5.80	129.13	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8U	204	ALA	C-N-CA	5.80	129.13	120.31
1	8X	120	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	96	61	GLY	CA-C-N	5.80	130.41	122.34
1	96	61	GLY	C-N-CA	5.80	130.41	122.34
1	9b	125	PRO	CB-CA-C	5.80	121.13	111.56
1	9f	12	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	9f	19	THR	CA-C-N	5.80	127.98	120.44
1	9f	19	THR	C-N-CA	5.80	127.98	120.44
1	9n	63	GLN	N-CA-C	5.80	118.55	111.82
1	9r	35	GLU	O-C-N	-5.80	114.87	122.59
1	9r	219	GLN	N-CA-CB	-5.80	101.35	110.69
1	9s	164	TYR	N-CA-CB	5.80	118.58	109.94
1	aC	59	VAL	CA-CB-CG1	5.80	120.26	110.40
1	aE	183	ASN	CA-C-N	5.80	127.98	120.44
1	aE	183	ASN	C-N-CA	5.80	127.98	120.44
1	aW	63	GLN	N-CA-C	5.80	117.28	111.07
1	b2	135	ILE	N-CA-C	5.80	116.54	110.62
1	ba	137	GLY	CA-C-N	5.80	128.33	120.38
1	ba	137	GLY	C-N-CA	5.80	128.33	120.38
1	bf	68	MET	O-C-N	-5.80	116.09	122.07
1	bX	100	ARG	N-CA-C	-5.80	101.88	110.46
1	c3	21	ASN	CA-CB-CG	-5.80	106.80	112.60
1	ci	80	TRP	N-CA-CB	-5.80	101.60	110.01
1	cs	33	SER	CA-C-O	-5.80	114.75	120.26
1	ct	18	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	cI	166	ASP	CA-C-N	5.80	128.05	120.28
1	cI	166	ASP	C-N-CA	5.80	128.05	120.28
1	cK	212	GLU	N-CA-C	5.80	117.28	111.07
1	1h	35	GLU	CA-C-O	5.80	126.50	119.31
1	cU	210	THR	O-C-N	-5.80	115.96	122.75
1	1i	153	ILE	N-CA-C	5.80	117.20	109.37
1	da	53	ASN	O-C-N	-5.80	115.97	122.12
1	1l	53	ASN	CA-C-N	5.80	128.37	120.54
1	1l	53	ASN	C-N-CA	5.80	128.37	120.54
1	dO	156	GLY	CA-C-N	5.80	125.48	119.56
1	dO	156	GLY	C-N-CA	5.80	125.48	119.56
1	dO	225	GLY	CA-C-N	5.80	130.60	122.36
1	dO	225	GLY	C-N-CA	5.80	130.60	122.36
1	dX	165	VAL	N-CA-CB	5.80	117.34	110.55
1	en	11	VAL	CA-C-O	-5.80	115.51	120.96
1	eo	139	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	eG	145	TYR	CA-CB-CG	-5.80	103.46	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eN	19	THR	N-CA-C	5.80	118.38	111.71
1	eW	229	ARG	CG-CD-NE	-5.80	99.24	112.00
1	eX	220	GLY	O-C-N	-5.80	115.67	122.34
1	eY	139	ASN	CA-C-N	5.80	128.06	120.28
1	eY	139	ASN	C-N-CA	5.80	128.06	120.28
1	f1	15	ILE	N-CA-C	5.80	116.50	108.84
1	fo	209	ALA	CB-CA-C	-5.80	100.09	109.72
1	fN	101	GLY	O-C-N	-5.80	116.61	122.18
1	h	173	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	p	169	TYR	N-CA-C	5.80	117.68	111.36
1	r	28	GLU	N-CA-C	5.80	117.60	111.28
1	r	61	GLY	CA-C-N	5.80	132.62	121.54
1	r	61	GLY	C-N-CA	5.80	132.62	121.54
1	x	212	GLU	N-CA-CB	5.80	118.65	110.12
1	y	154	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	E	177	ALA	N-CA-C	5.80	118.77	110.24
1	1C	25	LYS	N-CA-C	5.80	117.60	111.28
1	gn	85	PRO	N-CA-CB	5.80	109.34	103.25
1	gw	169	TYR	CB-CG-CD2	5.80	129.50	120.80
1	hg	98	GLU	CA-C-N	5.80	127.09	119.84
1	hg	98	GLU	C-N-CA	5.80	127.09	119.84
1	hr	228	ALA	O-C-N	-5.80	116.43	123.27
1	hC	49	PRO	CA-C-N	5.80	129.52	120.82
1	hC	49	PRO	C-N-CA	5.80	129.52	120.82
1	hJ	10	MET	N-CA-C	5.80	118.66	109.96
1	hN	120	HIS	CA-CB-CG	5.80	119.60	113.80
1	il	12	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	io	162	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	iH	198	CYS	N-CA-CB	-5.80	101.39	110.44
1	iV	69	LEU	CA-C-O	5.80	126.91	120.82
1	iX	162	ARG	CA-C-N	5.80	128.05	120.28
1	iX	162	ARG	C-N-CA	5.80	128.05	120.28
1	iY	11	VAL	CA-CB-CG2	-5.80	100.54	110.40
1	j6	27	VAL	N-CA-CB	5.80	117.33	110.55
1	jr	212	GLU	N-CA-C	5.80	118.38	111.71
1	jv	134	ILE	CB-CA-C	5.80	119.62	112.02
1	jK	174	ALA	CA-C-N	5.80	128.94	120.71
1	jK	174	ALA	C-N-CA	5.80	128.94	120.71
1	jL	92	GLU	N-CA-C	5.80	120.64	112.75
1	kh	133	TRP	CB-CG-CD1	5.80	135.60	126.90
1	kn	102	SER	CA-C-O	5.80	126.64	119.97
1	kv	165	VAL	N-CA-CB	-5.80	104.07	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	6	LEU	CA-C-N	5.80	131.65	122.60
1	ky	6	LEU	C-N-CA	5.80	131.65	122.60
1	ky	184	TRP	CA-C-N	5.80	128.05	120.28
1	ky	184	TRP	C-N-CA	5.80	128.05	120.28
1	kC	182	LYS	CA-C-N	5.80	128.53	120.29
1	kC	182	LYS	C-N-CA	5.80	128.53	120.29
1	kD	81	ASP	N-CA-C	5.80	117.60	111.28
1	kH	13	GLN	CA-C-O	5.80	127.33	120.66
1	kO	178	SER	CA-C-N	5.80	132.62	121.54
1	kO	178	SER	C-N-CA	5.80	132.62	121.54
1	kS	137	GLY	CA-C-N	5.80	128.05	120.28
1	kS	137	GLY	C-N-CA	5.80	128.05	120.28
1	kT	191	VAL	CA-C-N	5.80	128.05	120.28
1	kT	191	VAL	C-N-CA	5.80	128.05	120.28
1	kZ	18	ARG	NE-CZ-NH2	-5.80	113.98	119.20
1	kZ	206	GLY	CA-C-N	5.80	127.09	119.84
1	kZ	206	GLY	C-N-CA	5.80	127.09	119.84
1	l0	112	GLN	N-CA-C	5.80	117.60	111.28
1	lb	183	ASN	CA-CB-CG	-5.80	106.80	112.60
1	lv	149	SER	CA-C-N	5.80	128.41	120.46
1	lv	149	SER	C-N-CA	5.80	128.41	120.46
1	lx	137	GLY	N-CA-C	5.80	120.84	113.24
1	lJ	87	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	lL	229	ARG	N-CA-C	5.80	118.86	110.28
1	2c	193	ASN	CA-CB-CG	-5.80	106.80	112.60
1	2f	31	ALA	CA-C-N	5.80	130.72	122.72
1	2f	31	ALA	C-N-CA	5.80	130.72	122.72
1	2i	68	MET	N-CA-C	5.80	118.35	111.33
1	2j	4	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	2n	126	VAL	O-C-N	-5.80	116.23	121.91
1	2q	66	MET	N-CA-C	5.80	117.60	111.28
1	2r	123	PRO	CA-C-N	-5.80	118.41	122.59
1	2r	123	PRO	C-N-CA	-5.80	118.41	122.59
1	2u	79	GLU	N-CA-C	5.80	117.60	111.28
1	2z	74	ASN	N-CA-CB	5.80	118.74	110.16
1	2B	108	THR	CA-CB-OG1	5.80	118.30	109.60
1	2D	84	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	2Q	133	TRP	CB-CG-CD2	-5.80	118.68	126.80
1	3a	193	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	3d	153	ILE	N-CA-CB	-5.80	104.57	112.28
1	3m	220	GLY	O-C-N	5.80	128.91	122.47
1	3x	35	GLU	CB-CG-CD	5.80	122.46	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3R	199	LYS	O-C-N	5.80	128.27	122.12
1	3Z	97	ARG	CA-C-N	5.80	130.56	121.17
1	3Z	97	ARG	C-N-CA	5.80	130.56	121.17
1	48	126	VAL	CA-CB-CG1	-5.80	100.54	110.40
1	4n	73	ILE	CB-CA-C	-5.80	104.22	112.22
1	4x	78	ALA	N-CA-C	5.80	117.28	111.07
1	4Q	22	ALA	N-CA-C	5.80	117.29	110.97
1	4W	97	ARG	CA-C-O	5.80	127.70	121.55
1	50	112	GLN	CA-C-N	5.80	128.05	120.28
1	50	112	GLN	C-N-CA	5.80	128.05	120.28
1	5f	121	ASN	CA-CB-CG	5.80	118.40	112.60
1	5x	173	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	5T	130	TYR	CB-CG-CD1	5.80	129.50	120.80
1	6i	196	PRO	CA-C-N	5.80	128.05	120.28
1	6i	196	PRO	C-N-CA	5.80	128.05	120.28
1	6o	228	ALA	CB-CA-C	-5.80	99.68	109.83
1	6t	163	ASP	N-CA-C	5.80	117.28	111.07
1	6u	170	LYS	CA-CB-CG	5.80	125.70	114.10
1	7d	118	MET	N-CA-C	5.80	120.08	112.89
1	7h	124	ILE	O-C-N	-5.80	115.58	120.92
1	7m	135	ILE	CA-C-N	5.80	128.37	120.54
1	7m	135	ILE	C-N-CA	5.80	128.37	120.54
1	7t	10	MET	O-C-N	-5.80	116.16	123.12
1	7t	152	ASP	CA-C-N	5.80	128.97	122.59
1	7t	152	ASP	C-N-CA	5.80	128.97	122.59
1	7I	156	GLY	O-C-N	-5.80	115.97	121.77
1	7P	139	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	7T	57	ASN	O-C-N	-5.80	115.43	122.22
1	84	152	ASP	CA-CB-CG	-5.80	106.80	112.60
1	85	50	GLN	CA-C-N	5.80	128.05	120.28
1	85	50	GLN	C-N-CA	5.80	128.05	120.28
1	8c	66	MET	N-CA-C	5.80	117.60	111.28
1	8j	179	GLN	CA-C-N	5.80	128.52	120.29
1	8j	179	GLN	C-N-CA	5.80	128.52	120.29
1	8r	199	LYS	O-C-N	-5.80	115.97	122.12
1	8y	65	ALA	N-CA-C	5.80	117.60	111.28
1	8y	198	CYS	N-CA-C	5.80	117.68	111.36
1	8F	147	PRO	O-C-N	-5.80	114.81	122.64
1	96	84	HIS	N-CA-C	5.80	116.27	109.60
1	9b	13	GLN	N-CA-C	-5.80	100.34	109.50
1	9d	71	GLU	CA-C-N	5.80	127.98	120.44
1	9d	71	GLU	C-N-CA	5.80	127.98	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	146	SER	O-C-N	-5.80	116.95	121.47
1	9M	226	HIS	CB-CG-CD2	-5.80	123.66	131.20
1	9N	163	ASP	N-CA-C	5.80	117.27	111.07
1	9S	84	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	9X	116	GLY	N-CA-C	5.80	119.66	112.64
1	a2	53	ASN	CA-C-N	5.80	127.98	120.44
1	a2	53	ASN	C-N-CA	5.80	127.98	120.44
1	a5	11	VAL	N-CA-C	-5.80	99.27	108.90
1	ax	62	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	aP	214	MET	N-CA-C	-5.80	105.04	111.36
1	15	177	ALA	CA-C-N	5.80	129.95	121.31
1	15	177	ALA	C-N-CA	5.80	129.95	121.31
1	b8	47	ALA	N-CA-C	5.80	118.24	110.35
1	bj	136	LEU	N-CA-C	5.80	117.60	111.28
1	bM	184	TRP	CA-C-N	5.80	128.05	120.28
1	bM	184	TRP	C-N-CA	5.80	128.05	120.28
1	bO	15	ILE	N-CA-C	5.80	117.20	109.37
1	bO	205	LEU	N-CA-C	-5.80	104.92	112.23
1	1c	17	PRO	O-C-N	-5.80	115.27	122.23
1	cl	52	LEU	N-CA-C	5.80	117.60	111.28
1	cn	57	ASN	CA-CB-CG	-5.80	106.80	112.60
1	cp	120	HIS	O-C-N	-5.80	115.97	122.75
1	1e	11	VAL	N-CA-C	5.80	116.22	107.75
1	cr	132	ARG	CB-CA-C	5.80	120.42	110.79
1	cs	221	VAL	CA-C-N	-5.80	114.12	120.44
1	cs	221	VAL	C-N-CA	-5.80	114.12	120.44
1	cY	99	PRO	CB-CA-C	5.80	116.68	111.40
1	cZ	142	VAL	CA-CB-CG1	-5.80	100.54	110.40
1	d3	183	ASN	CA-C-N	5.80	128.05	120.28
1	d3	183	ASN	C-N-CA	5.80	128.05	120.28
1	di	175	GLU	O-C-N	-5.80	116.44	122.94
1	dp	152	ASP	CA-CB-CG	5.80	118.40	112.60
1	1l	164	TYR	CA-C-N	5.80	128.66	120.42
1	1l	164	TYR	C-N-CA	5.80	128.66	120.42
1	dI	219	GLN	CA-C-O	5.80	125.52	119.14
1	dO	26	VAL	CA-C-O	-5.80	115.02	121.17
1	dV	82	ARG	CA-C-N	5.80	127.98	120.44
1	dV	82	ARG	C-N-CA	5.80	127.98	120.44
1	e4	107	THR	N-CA-C	5.80	117.60	111.28
1	eh	214	MET	CG-SD-CE	-5.80	88.14	100.90
1	er	51	ASP	CA-CB-CG	5.80	118.40	112.60
1	eu	63	GLN	OE1-CD-NE2	-5.80	116.80	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	35	GLU	CA-C-N	5.80	129.81	120.30
1	eW	35	GLU	C-N-CA	5.80	129.81	120.30
1	eZ	150	ILE	CB-CA-C	5.80	119.97	112.14
1	f1	181	VAL	CA-C-N	5.80	128.32	120.38
1	f1	181	VAL	C-N-CA	5.80	128.32	120.38
1	fp	136	LEU	N-CA-C	5.80	117.60	111.28
1	fI	198	CYS	CA-C-N	5.80	129.13	120.31
1	fI	198	CYS	C-N-CA	5.80	129.13	120.31
1	fO	136	LEU	O-C-N	-5.80	116.10	122.07
1	fP	39	MET	N-CA-C	5.80	117.60	111.28
1	1A	120	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	fZ	195	ASN	CA-CB-CG	-5.80	106.80	112.60
1	g0	18	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	g4	12	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	g6	99	PRO	N-CA-C	5.80	120.71	111.26
1	0	16	SER	CA-C-N	5.80	125.66	119.28
1	0	16	SER	C-N-CA	5.80	125.66	119.28
1	o	84	HIS	CB-CG-CD2	-5.80	123.66	131.20
1	v	200	THR	N-CA-CB	5.80	118.42	110.01
1	y	140	LYS	CA-C-N	5.80	127.87	120.56
1	y	140	LYS	C-N-CA	5.80	127.87	120.56
1	B	18	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	D	64	ALA	N-CA-C	5.80	117.68	111.36
1	G	117	TRP	O-C-N	-5.80	115.97	122.12
1	Q	199	LYS	N-CA-C	5.80	118.35	111.33
1	gC	230	VAL	O-C-N	-5.80	116.34	122.83
1	gL	20	LEU	N-CA-C	5.80	117.68	111.36
1	h3	142	VAL	CA-CB-CG2	-5.80	100.54	110.40
1	hD	202	LEU	O-C-N	-5.80	115.97	122.12
1	hT	73	ILE	N-CA-C	5.80	118.30	111.05
1	hZ	192	GLN	CB-CG-CD	5.80	122.46	112.60
1	i1	193	ASN	CA-C-N	5.80	128.94	120.71
1	i1	193	ASN	C-N-CA	5.80	128.94	120.71
1	it	229	ARG	N-CA-C	5.80	118.64	110.23
1	1T	34	PRO	CA-C-N	5.80	129.88	120.60
1	1T	34	PRO	C-N-CA	5.80	129.88	120.60
1	jt	63	GLN	CB-CG-CD	5.80	122.46	112.60
1	jE	164	TYR	CA-C-N	5.80	128.40	120.46
1	jE	164	TYR	C-N-CA	5.80	128.40	120.46
1	1Z	138	LEU	O-C-N	-5.80	115.97	122.12
1	kT	163	ASP	CA-C-N	5.80	128.52	120.29
1	kT	163	ASP	C-N-CA	5.80	128.52	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	li	113	GLU	CA-C-N	5.80	128.05	120.28
1	li	113	GLU	C-N-CA	5.80	128.05	120.28
1	29	68	MET	CG-SD-CE	-5.80	88.14	100.90
1	lE	223	GLY	CA-C-N	5.80	126.09	119.83
1	lE	223	GLY	C-N-CA	5.80	126.09	119.83
1	3d	91	ILE	CA-C-O	5.80	126.21	119.89
1	3f	48	THR	N-CA-CB	5.80	116.04	109.49
1	3p	39	MET	O-C-N	-5.80	115.97	122.12
1	3p	126	VAL	CA-C-N	5.80	126.26	119.94
1	3p	126	VAL	C-N-CA	5.80	126.26	119.94
1	3s	206	GLY	CA-C-N	5.80	125.90	119.87
1	3s	206	GLY	C-N-CA	5.80	125.90	119.87
1	3v	71	GLU	CA-C-N	5.80	128.32	120.38
1	3v	71	GLU	C-N-CA	5.80	128.32	120.38
1	3v	213	GLU	O-C-N	-5.80	115.97	122.12
1	3T	23	TRP	O-C-N	-5.80	116.10	122.07
1	41	9	GLN	N-CA-C	5.80	118.03	110.43
1	4h	23	TRP	CB-CG-CD2	5.80	134.92	126.80
1	4N	165	VAL	N-CA-CB	5.80	117.33	110.55
1	5F	195	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	5H	8	GLY	O-C-N	-5.80	116.94	123.61
1	6g	135	ILE	CA-C-N	5.80	127.98	120.44
1	6g	135	ILE	C-N-CA	5.80	127.98	120.44
1	6J	67	GLN	CA-C-O	5.80	126.64	119.97
1	76	86	VAL	N-CA-C	5.80	116.55	109.30
1	7o	23	TRP	CB-CA-C	5.80	119.98	110.88
1	7E	87	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	7N	8	GLY	CA-C-N	5.80	129.10	120.87
1	7N	8	GLY	C-N-CA	5.80	129.10	120.87
1	7Q	62	HIS	ND1-CG-CD2	5.80	111.90	106.10
1	7Q	101	GLY	CA-C-O	5.80	126.68	120.30
1	7R	126	VAL	CA-C-N	-5.80	113.62	120.00
1	7R	126	VAL	C-N-CA	-5.80	113.62	120.00
1	8t	58	THR	CA-CB-CG2	5.80	120.36	110.50
1	93	226	HIS	N-CA-C	5.80	118.76	110.24
1	9m	80	TRP	CB-CG-CD2	5.80	134.92	126.80
1	9q	12	HIS	O-C-N	-5.80	115.74	122.87
1	9W	228	ALA	CA-C-O	5.80	128.24	121.46
1	a6	75	GLU	CA-C-N	5.80	128.52	120.29
1	a6	75	GLU	C-N-CA	5.80	128.52	120.29
1	aU	37	ILE	CA-C-O	5.80	122.58	118.69
1	aY	21	ASN	OD1-CG-ND2	-5.80	116.80	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bn	81	ASP	CA-C-O	5.80	126.63	119.79
1	br	132	ARG	CD-NE-CZ	5.80	132.52	124.40
1	bt	154	ARG	N-CA-C	-5.80	99.92	108.79
1	bY	121	ASN	CA-C-O	-5.80	113.78	119.69
1	c1	110	THR	CA-CB-OG1	5.80	118.30	109.60
1	ca	103	ASP	CA-C-O	5.80	126.68	120.24
1	1e	183	ASN	CA-CB-CG	-5.80	106.80	112.60
1	dL	35	GLU	O-C-N	-5.80	114.52	122.46
1	dU	2	ILE	N-CA-C	5.80	117.06	109.58
1	e2	194	ALA	CA-C-O	-5.80	115.38	121.99
1	eg	228	ALA	N-CA-CB	-5.80	101.64	110.45
1	et	87	HIS	ND1-CE1-NE2	5.80	114.20	108.40
1	ev	162	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	eF	195	ASN	N-CA-C	5.80	116.27	109.60
1	eH	51	ASP	N-CA-C	5.80	117.60	111.28
1	f9	12	HIS	CA-CB-CG	-5.80	108.00	113.80
1	fM	190	LEU	CA-C-O	5.80	126.70	120.55
1	b	219	GLN	O-C-N	-5.80	114.88	122.59
1	c	48	THR	N-CA-CB	5.80	117.75	110.04
1	A	156	GLY	N-CA-C	5.80	118.96	112.00
1	8	221	VAL	N-CA-CB	-5.80	104.57	112.28
1	gb	167	ARG	N-CA-C	5.80	118.34	111.33
1	ge	210	THR	O-C-N	-5.80	116.18	122.79
1	gf	69	LEU	CA-C-N	5.80	127.98	120.44
1	gf	69	LEU	C-N-CA	5.80	127.98	120.44
1	gz	167	ARG	CA-C-N	5.80	128.05	120.28
1	gz	167	ARG	C-N-CA	5.80	128.05	120.28
1	gP	114	GLN	N-CA-C	5.80	117.27	111.07
1	gS	165	VAL	N-CA-C	5.80	115.98	110.42
1	gV	122	PRO	N-CA-CB	5.80	108.98	102.60
1	1G	4	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	hw	84	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	hO	154	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	hZ	62	HIS	O-C-N	-5.80	115.36	122.55
1	i8	120	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
1	iq	178	SER	CA-C-N	5.80	128.05	120.28
1	iq	178	SER	C-N-CA	5.80	128.05	120.28
1	iq	212	GLU	N-CA-C	5.80	118.38	111.71
1	1Q	198	CYS	O-C-N	-5.80	115.44	122.22
1	iz	25	LYS	CA-C-N	5.80	128.65	120.42
1	iz	25	LYS	C-N-CA	5.80	128.65	120.42
1	iz	187	GLU	CA-C-O	-5.80	114.73	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	111	LEU	CA-C-N	5.80	129.51	120.82
1	iD	111	LEU	C-N-CA	5.80	129.51	120.82
1	iF	132	ARG	CA-C-N	5.80	128.52	120.29
1	iF	132	ARG	C-N-CA	5.80	128.52	120.29
1	1S	50	GLN	CA-C-O	5.80	126.91	120.82
1	iS	150	ILE	O-C-N	-5.80	116.02	121.87
1	iW	109	SER	CB-CA-C	5.80	119.30	109.50
1	iX	134	ILE	O-C-N	-5.80	116.02	121.87
1	iX	153	ILE	CA-C-O	5.80	127.43	120.65
1	j2	78	ALA	O-C-N	-5.80	115.97	122.12
1	j8	166	ASP	CA-CB-CG	5.80	118.40	112.60
1	jj	35	GLU	N-CA-C	-5.80	105.97	113.16
1	1X	37	ILE	N-CA-CB	5.80	114.15	110.50
1	jH	149	SER	O-C-N	-5.80	116.55	123.27
1	jM	185	MET	CG-SD-CE	-5.80	88.15	100.90
1	k3	168	PHE	N-CA-C	5.80	117.60	111.28
1	k9	139	ASN	CB-CA-C	-5.80	101.17	110.79
1	kh	124	ILE	N-CA-CB	5.80	117.63	111.20
1	ky	12	HIS	CB-CA-C	-5.80	100.61	109.89
1	ky	179	GLN	N-CA-C	5.80	118.34	111.33
1	kz	66	MET	O-C-N	-5.80	115.54	122.15
1	kH	95	GLN	OE1-CD-NE2	-5.80	116.80	122.60
1	kI	21	ASN	CA-CB-CG	5.80	118.40	112.60
1	kN	187	GLU	CA-C-N	5.80	127.98	120.44
1	kN	187	GLU	C-N-CA	5.80	127.98	120.44
1	kZ	75	GLU	CA-C-N	5.80	128.05	120.28
1	kZ	75	GLU	C-N-CA	5.80	128.05	120.28
1	l0	67	GLN	O-C-N	-5.80	115.98	122.12
1	le	119	THR	N-CA-C	5.80	120.35	113.28
1	le	160	PRO	N-CA-C	5.80	124.41	112.47
1	lf	180	GLU	N-CA-CB	5.80	118.64	110.12
1	lh	120	HIS	CA-C-N	5.80	129.88	122.64
1	lh	120	HIS	C-N-CA	5.80	129.88	122.64
1	lt	63	GLN	CG-CD-NE2	5.80	125.09	116.40
1	lu	84	HIS	CG-CD2-NE2	5.80	113.00	107.20
1	lD	39	MET	CA-C-O	-5.80	114.70	120.90
1	lD	173	ARG	NE-CZ-NH1	5.80	127.30	121.50
1	lE	113	GLU	CA-C-N	5.80	128.05	120.28
1	lE	113	GLU	C-N-CA	5.80	128.05	120.28
1	lJ	181	VAL	CA-C-N	5.80	128.05	120.28
1	lJ	181	VAL	C-N-CA	5.80	128.05	120.28
1	2c	132	ARG	CD-NE-CZ	5.80	132.51	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	93	PRO	N-CA-CB	5.80	108.39	103.35
1	2u	97	ARG	NE-CZ-NH2	5.80	124.42	119.20
1	2P	126	VAL	N-CA-C	5.80	116.53	110.62
1	38	138	LEU	N-CA-C	5.80	119.61	112.54
1	3y	223	GLY	CA-C-O	-5.80	116.41	122.38
1	3R	126	VAL	CA-C-O	-5.80	114.92	120.95
1	3R	138	LEU	O-C-N	-5.80	115.44	122.22
1	3U	156	GLY	O-C-N	-5.80	115.97	121.77
1	3V	53	ASN	CA-C-N	5.80	130.53	120.68
1	3V	53	ASN	C-N-CA	5.80	130.53	120.68
1	3V	143	ARG	CA-C-N	5.80	128.63	120.28
1	3V	143	ARG	C-N-CA	5.80	128.63	120.28
1	45	96	MET	N-CA-C	5.80	118.92	110.17
1	4d	106	GLY	CA-C-N	5.80	128.37	120.54
1	4d	106	GLY	C-N-CA	5.80	128.37	120.54
1	4B	20	LEU	CA-C-N	5.80	128.05	120.28
1	4B	20	LEU	C-N-CA	5.80	128.05	120.28
1	4E	36	VAL	CA-CB-CG1	5.80	120.25	110.40
1	4F	34	PRO	CA-C-N	5.80	128.84	120.38
1	4F	34	PRO	C-N-CA	5.80	128.84	120.38
1	4I	14	ALA	CA-C-O	-5.80	115.15	121.87
1	4Q	86	VAL	N-CA-C	5.80	118.94	109.78
1	4S	206	GLY	CA-C-O	-5.80	113.23	121.52
1	50	229	ARG	NH1-CZ-NH2	-5.80	111.76	119.30
1	53	80	TRP	CA-C-O	5.80	126.69	120.55
1	6g	18	ARG	CA-C-N	5.80	127.98	120.44
1	6g	18	ARG	C-N-CA	5.80	127.98	120.44
1	6i	66	MET	N-CA-CB	5.80	118.64	110.12
1	6i	173	ARG	CA-C-N	5.80	128.63	120.28
1	6i	173	ARG	C-N-CA	5.80	128.63	120.28
1	6s	92	GLU	O-C-N	-5.80	116.38	121.31
1	6u	11	VAL	CB-CA-C	-5.80	104.96	111.45
1	6F	171	THR	CA-C-N	5.80	129.12	120.31
1	6F	171	THR	C-N-CA	5.80	129.12	120.31
1	6Y	116	GLY	CA-C-O	-5.80	114.78	120.75
1	71	39	MET	CA-C-N	5.80	128.05	120.28
1	71	39	MET	C-N-CA	5.80	128.05	120.28
1	7V	53	ASN	CA-CB-CG	-5.80	106.80	112.60
1	8f	195	ASN	N-CA-C	5.80	116.27	109.60
1	8I	152	ASP	N-CA-CB	-5.80	102.06	110.70
1	8P	180	GLU	N-CA-C	5.80	117.60	111.28
1	8T	95	GLN	O-C-N	-5.80	116.41	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8X	5	ASN	CA-CB-CG	-5.80	106.80	112.60
1	94	180	GLU	CA-C-N	5.80	128.08	120.60
1	94	180	GLU	C-N-CA	5.80	128.08	120.60
1	99	76	GLU	CB-CG-CD	5.80	122.45	112.60
1	9n	126	VAL	CA-C-N	5.80	126.26	119.94
1	9n	126	VAL	C-N-CA	5.80	126.26	119.94
1	9E	47	ALA	O-C-N	-5.80	115.82	122.89
1	9F	75	GLU	N-CA-CB	5.80	118.76	110.06
1	ac	68	MET	CA-C-N	5.80	128.36	120.54
1	ac	68	MET	C-N-CA	5.80	128.36	120.54
1	aq	152	ASP	CA-CB-CG	-5.80	106.80	112.60
1	at	88	ALA	CA-C-O	5.80	127.59	121.33
1	ax	31	ALA	N-CA-C	5.80	119.53	112.23
1	aM	176	GLN	CG-CD-NE2	5.80	125.09	116.40
1	aR	181	VAL	CA-CB-CG2	-5.80	100.55	110.40
1	15	226	HIS	CB-CG-CD2	5.80	138.74	131.20
1	b0	86	VAL	N-CA-C	5.80	118.94	109.78
1	b1	154	ARG	CG-CD-NE	-5.80	99.25	112.00
1	ba	160	PRO	CA-C-N	5.80	128.05	120.28
1	ba	160	PRO	C-N-CA	5.80	128.05	120.28
1	bj	120	HIS	O-C-N	-5.80	116.18	122.79
1	bp	50	GLN	CB-CG-CD	5.80	122.45	112.60
1	bF	27	VAL	CG1-CB-CG2	-5.80	98.05	110.80
1	cg	25	LYS	N-CA-C	5.80	118.07	111.11
1	cj	54	THR	CB-CA-C	5.80	120.70	110.85
1	cJ	26	VAL	O-C-N	-5.80	116.23	121.91
1	cJ	30	LYS	CA-C-N	5.80	132.61	121.54
1	cJ	30	LYS	C-N-CA	5.80	132.61	121.54
1	cP	172	LEU	CA-C-N	5.80	129.12	120.31
1	cP	172	LEU	C-N-CA	5.80	129.12	120.31
1	d0	191	VAL	O-C-N	-5.80	116.25	121.87
1	d4	155	GLN	N-CA-C	5.80	118.74	110.10
1	dn	130	TYR	CB-CG-CD1	5.80	129.50	120.80
1	dq	74	ASN	OD1-CG-ND2	-5.80	116.80	122.60
1	dz	133	TRP	CB-CG-CD1	5.80	135.59	126.90
1	dQ	37	ILE	O-C-N	-5.80	116.71	120.42
1	e1	82	ARG	N-CA-C	5.80	118.55	111.82
1	e2	145	TYR	CD1-CG-CD2	5.80	126.80	118.10
1	ee	117	TRP	N-CA-CB	-5.80	101.60	110.12
1	ef	86	VAL	N-CA-C	5.80	116.93	108.58
1	eG	145	TYR	O-C-N	-5.80	114.56	122.33
1	eY	228	ALA	O-C-N	-5.80	115.44	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1u	134	ILE	N-CA-C	5.80	116.53	110.62
1	f1	52	LEU	CA-C-N	5.80	127.98	120.44
1	f1	52	LEU	C-N-CA	5.80	127.98	120.44
1	fr	50	GLN	CG-CD-NE2	5.80	125.10	116.40
1	fN	160	PRO	N-CA-C	5.80	119.96	111.03
1	fX	157	PRO	O-C-N	-5.80	114.43	122.37
1	fZ	113	GLU	O-C-N	-5.80	116.10	122.07
1	g5	167	ARG	CA-C-O	5.80	126.65	120.10
1	g6	125	PRO	N-CA-CB	-5.80	97.84	102.36
1	d	204	ALA	CA-C-N	5.80	128.63	120.28
1	d	204	ALA	C-N-CA	5.80	128.63	120.28
1	o	179	GLN	CA-C-N	5.80	128.05	120.28
1	o	179	GLN	C-N-CA	5.80	128.05	120.28
1	B	101	GLY	CA-C-N	5.80	128.05	120.28
1	B	101	GLY	C-N-CA	5.80	128.05	120.28
1	K	55	MET	N-CA-C	5.80	117.60	111.28
1	T	6	LEU	N-CA-C	5.80	123.15	110.80
1	1C	32	PHE	O-C-N	-5.79	114.13	121.95
1	gs	21	ASN	OD1-CG-ND2	5.79	128.40	122.60
1	hu	185	MET	CG-SD-CE	-5.79	88.15	100.90
1	hA	227	LYS	O-C-N	-5.79	116.18	122.79
1	hT	164	TYR	CA-C-N	5.79	128.40	120.46
1	hT	164	TYR	C-N-CA	5.79	128.40	120.46
1	hT	167	ARG	NE-CZ-NH1	5.79	127.30	121.50
1	i4	142	VAL	O-C-N	5.79	127.59	121.91
1	ii	42	ALA	N-CA-C	5.79	117.60	111.28
1	iA	142	VAL	N-CA-CB	5.79	117.33	110.55
1	iK	98	GLU	O-C-N	-5.79	114.94	121.43
1	jr	56	LEU	CA-C-N	5.79	128.30	120.65
1	jr	56	LEU	C-N-CA	5.79	128.30	120.65
1	ke	88	ALA	O-C-N	-5.79	115.76	122.95
1	ko	93	PRO	O-C-N	-5.79	114.82	122.64
1	kH	45	GLU	N-CA-C	5.79	123.14	110.80
1	kN	209	ALA	N-CA-CB	5.79	118.63	109.71
1	l1	206	GLY	CA-C-N	5.79	125.50	119.82
1	l1	206	GLY	C-N-CA	5.79	125.50	119.82
1	lt	24	VAL	N-CA-C	5.79	116.53	110.62
1	2a	162	ARG	N-CA-C	5.79	118.34	111.33
1	2C	158	LYS	N-CA-C	-5.79	105.40	112.88
1	2E	101	GLY	CA-C-O	5.79	127.26	121.00
1	2P	95	GLN	CB-CG-CD	5.79	122.45	112.60
1	2S	6	LEU	N-CA-C	5.79	117.77	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Z	74	ASN	CA-C-N	5.79	128.05	120.28
1	3Z	74	ASN	C-N-CA	5.79	128.05	120.28
1	45	126	VAL	CA-CB-CG1	-5.79	100.55	110.40
1	4d	61	GLY	CA-C-N	5.79	131.05	122.82
1	4d	61	GLY	C-N-CA	5.79	131.05	122.82
1	4h	48	THR	CA-C-N	5.79	127.08	119.84
1	4h	48	THR	C-N-CA	5.79	127.08	119.84
1	4w	187	GLU	CA-C-O	5.79	126.50	119.31
1	4F	127	GLY	CA-C-N	5.79	127.97	120.44
1	4F	127	GLY	C-N-CA	5.79	127.97	120.44
1	4Y	89	GLY	CA-C-O	-5.79	113.23	121.52
1	5b	97	ARG	NH1-CZ-NH2	-5.79	111.77	119.30
1	5M	173	ARG	N-CA-C	5.79	117.27	111.07
1	5Y	5	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	6b	85	PRO	CB-CA-C	5.79	119.00	111.64
1	6r	183	ASN	N-CA-CB	5.79	118.74	110.16
1	6B	4	GLN	N-CA-C	5.79	119.10	111.28
1	6K	104	ILE	CA-CB-CG1	5.79	120.25	110.40
1	6K	219	GLN	N-CA-C	5.79	117.65	108.67
1	7l	97	ARG	NE-CZ-NH1	5.79	127.30	121.50
1	7x	172	LEU	O-C-N	-5.79	114.13	122.36
1	7D	164	TYR	CA-CB-CG	5.79	124.33	113.90
1	7S	12	HIS	CA-CB-CG	-5.79	108.00	113.80
1	82	131	LYS	CA-C-N	5.79	128.52	120.29
1	82	131	LYS	C-N-CA	5.79	128.52	120.29
1	9u	141	ILE	N-CA-C	5.79	116.53	110.62
1	9D	6	LEU	O-C-N	-5.79	115.39	122.11
1	9K	13	GLN	CA-C-O	5.79	127.56	121.19
1	9U	40	PHE	CA-C-N	5.79	128.32	120.38
1	9U	40	PHE	C-N-CA	5.79	128.32	120.38
1	a2	74	ASN	N-CA-C	-5.79	105.04	111.36
1	aa	207	PRO	CB-CA-C	5.79	118.81	111.39
1	au	37	ILE	O-C-N	-5.79	115.95	120.07
1	b0	166	ASP	N-CA-CB	-5.79	101.58	110.16
1	c1	176	GLN	O-C-N	-5.79	115.66	123.19
1	d2	9	GLN	CB-CA-C	5.79	121.95	110.42
1	d2	80	TRP	CD2-CE2-CZ2	5.79	128.19	122.40
1	dh	160	PRO	CA-C-O	-5.79	114.71	121.95
1	dB	84	HIS	N-CA-CB	-5.79	103.26	110.79
1	e7	33	SER	N-CA-CB	5.79	116.72	111.27
1	ev	2	ILE	N-CA-C	-5.79	100.06	108.17
1	eY	147	PRO	N-CD-CG	5.79	111.89	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eY	160	PRO	CA-C-N	5.79	128.04	120.28
1	eY	160	PRO	C-N-CA	5.79	128.04	120.28
1	1v	167	ARG	CA-C-N	5.79	128.32	120.44
1	1v	167	ARG	C-N-CA	5.79	128.32	120.44
1	fn	82	ARG	CA-C-N	5.79	128.52	120.29
1	fn	82	ARG	C-N-CA	5.79	128.52	120.29
1	fw	12	HIS	CG-CD2-NE2	5.79	113.00	107.20
1	fJ	119	THR	N-CA-C	-5.79	106.25	113.38
1	fN	14	ALA	N-CA-C	5.79	118.92	109.59
1	p	84	HIS	CG-CD2-NE2	5.79	113.00	107.20
1	F	90	PRO	CA-C-O	-5.79	114.81	121.36
1	I	91	ILE	N-CA-C	-5.79	104.18	112.35
1	P	34	PRO	CA-C-O	-5.79	110.74	119.55
1	P	117	TRP	N-CA-C	5.79	117.60	111.28
1	6	54	THR	CA-C-O	-5.79	114.41	120.55
1	1D	134	ILE	CA-C-N	5.79	128.40	120.46
1	1D	134	ILE	C-N-CA	5.79	128.40	120.46
1	gt	103	ASP	O-C-N	5.79	128.26	122.12
1	gK	20	LEU	N-CA-CB	-5.79	101.61	110.01
1	1G	27	VAL	CA-C-N	5.79	128.32	120.38
1	1G	27	VAL	C-N-CA	5.79	128.32	120.38
1	h0	120	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	hc	117	TRP	O-C-N	-5.79	115.83	122.09
1	hf	132	ARG	CB-CG-CD	5.79	124.63	111.30
1	1I	170	LYS	CA-C-O	5.79	126.67	120.70
1	hn	226	HIS	N-CA-C	5.79	118.63	110.23
1	ho	75	GLU	CB-CA-C	5.79	120.70	110.85
1	hP	181	VAL	N-CA-CB	5.79	116.70	110.62
1	hV	84	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	hX	226	HIS	CA-CB-CG	5.79	119.59	113.80
1	ij	107	THR	CA-CB-CG2	5.79	120.35	110.50
1	io	184	TRP	N-CA-C	-5.79	105.05	111.36
1	iA	173	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	iL	173	ARG	CA-C-N	5.79	127.97	120.44
1	iL	173	ARG	C-N-CA	5.79	127.97	120.44
1	iN	103	ASP	CA-C-N	5.79	128.40	120.46
1	iN	103	ASP	C-N-CA	5.79	128.40	120.46
1	iN	182	LYS	O-C-N	-5.79	115.98	122.12
1	j4	48	THR	O-C-N	-5.79	115.46	121.60
1	jg	159	GLU	CB-CG-CD	-5.79	102.75	112.60
1	jk	175	GLU	CA-C-N	5.79	129.87	120.60
1	jk	175	GLU	C-N-CA	5.79	129.87	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jt	5	ASN	CB-CG-ND2	5.79	125.09	116.40
1	jt	171	THR	CA-C-N	5.79	128.36	120.54
1	jt	171	THR	C-N-CA	5.79	128.36	120.54
1	1W	10	MET	CG-SD-CE	-5.79	88.15	100.90
1	jw	219	GLN	N-CA-CB	5.79	118.93	109.95
1	jO	43	LEU	CA-C-O	5.79	126.89	120.63
1	jS	174	ALA	N-CA-C	5.79	120.08	112.89
1	kk	203	LYS	N-CA-C	5.79	117.67	111.36
1	kr	158	LYS	N-CA-C	-5.79	105.41	112.88
1	kv	206	GLY	O-C-N	-5.79	115.98	121.77
1	kG	74	ASN	CA-CB-CG	-5.79	106.81	112.60
1	kN	218	CYS	N-CA-C	5.79	119.56	111.74
1	kS	95	GLN	CA-C-N	5.79	129.10	120.87
1	kS	95	GLN	C-N-CA	5.79	129.10	120.87
1	l0	206	GLY	CA-C-N	5.79	126.88	120.45
1	l0	206	GLY	C-N-CA	5.79	126.88	120.45
1	l3	53	ASN	O-C-N	-5.79	116.10	122.07
1	lb	183	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	lf	225	GLY	O-C-N	-5.79	116.62	122.59
1	lm	128	GLU	CA-C-N	5.79	128.36	120.77
1	lm	128	GLU	C-N-CA	5.79	128.36	120.77
1	2q	138	LEU	CA-C-O	-5.79	113.81	120.24
1	31	130	TYR	CA-C-N	-5.79	111.94	120.28
1	31	130	TYR	C-N-CA	-5.79	111.94	120.28
1	32	25	LYS	N-CA-C	-5.79	105.87	113.17
1	35	98	GLU	CA-C-N	5.79	127.08	119.84
1	35	98	GLU	C-N-CA	5.79	127.08	119.84
1	3j	133	TRP	N-CA-CB	5.79	118.75	110.06
1	3o	226	HIS	CG-CD2-NE2	5.79	112.99	107.20
1	3z	8	GLY	CA-C-N	5.79	129.07	120.90
1	3z	8	GLY	C-N-CA	5.79	129.07	120.90
1	3G	76	GLU	CA-C-N	5.79	127.97	120.44
1	3G	76	GLU	C-N-CA	5.79	127.97	120.44
1	3Q	78	ALA	O-C-N	-5.79	115.44	122.22
1	3X	31	ALA	N-CA-CB	5.79	120.28	110.49
1	4b	205	LEU	CA-C-O	5.79	126.67	120.70
1	4h	23	TRP	CB-CG-CD1	-5.79	118.21	126.90
1	4j	89	GLY	O-C-N	-5.79	115.98	121.77
1	4P	24	VAL	CA-CB-CG1	-5.79	100.55	110.40
1	5a	12	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	5c	33	SER	CA-C-N	5.79	127.08	119.84
1	5c	33	SER	C-N-CA	5.79	127.08	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5c	45	GLU	CA-C-O	5.79	127.65	121.16
1	5f	210	THR	N-CA-CB	5.79	119.26	110.45
1	5l	194	ALA	N-CA-C	5.79	118.63	110.23
1	5o	162	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	5q	170	LYS	N-CA-C	5.79	117.60	111.28
1	5E	37	ILE	CA-C-N	5.79	127.08	119.84
1	5E	37	ILE	C-N-CA	5.79	127.08	119.84
1	5T	169	TYR	O-C-N	-5.79	115.14	122.27
1	66	156	GLY	CA-C-O	-5.79	116.84	122.46
1	69	226	HIS	CB-CA-C	-5.79	101.69	111.02
1	6e	93	PRO	CA-C-N	5.79	130.85	120.77
1	6e	93	PRO	C-N-CA	5.79	130.85	120.77
1	6e	93	PRO	CB-CA-C	5.79	119.00	111.64
1	6g	126	VAL	N-CA-CB	-5.79	104.08	110.51
1	6p	54	THR	O-C-N	-5.79	115.98	122.12
1	6q	167	ARG	CG-CD-NE	-5.79	99.25	112.00
1	6r	9	GLN	CA-C-N	5.79	129.06	120.95
1	6r	9	GLN	C-N-CA	5.79	129.06	120.95
1	6A	125	PRO	CA-C-N	5.79	127.97	120.56
1	6A	125	PRO	C-N-CA	5.79	127.97	120.56
1	6L	96	MET	O-C-N	-5.79	115.97	122.75
1	6M	159	GLU	N-CA-C	5.79	117.82	109.48
1	6V	52	LEU	N-CA-C	-5.79	105.05	111.36
1	6X	52	LEU	N-CA-C	5.79	117.59	111.28
1	7p	169	TYR	N-CA-C	5.79	117.60	111.28
1	7s	80	TRP	CA-C-N	5.79	128.04	120.28
1	7s	80	TRP	C-N-CA	5.79	128.04	120.28
1	7w	167	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	7P	132	ARG	N-CA-CB	-5.79	101.61	110.12
1	7S	120	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	82	56	LEU	N-CA-C	-5.79	105.71	112.89
1	8a	69	LEU	O-C-N	-5.79	115.55	122.15
1	8B	14	ALA	N-CA-C	5.79	118.65	109.96
1	93	183	ASN	CA-C-O	5.79	126.56	120.42
1	93	226	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	9a	167	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	9h	180	GLU	N-CA-C	5.79	118.34	111.33
1	9l	60	GLY	CA-C-N	5.79	129.83	121.54
1	9l	60	GLY	C-N-CA	5.79	129.83	121.54
1	9w	127	GLY	CA-C-N	5.79	128.52	120.29
1	9w	127	GLY	C-N-CA	5.79	128.52	120.29
1	9x	59	VAL	O-C-N	-5.79	116.00	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9x	179	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	9J	50	GLN	CB-CA-C	-5.79	101.78	110.88
1	9P	211	LEU	CA-C-N	5.79	128.36	120.54
1	9P	211	LEU	C-N-CA	5.79	128.36	120.54
1	9Q	151	LEU	O-C-N	-5.79	115.98	122.12
1	al	162	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	an	66	MET	O-C-N	-5.79	116.10	122.07
1	aR	81	ASP	CA-C-N	5.79	128.62	120.28
1	aR	81	ASP	C-N-CA	5.79	128.62	120.28
1	aS	179	GLN	CA-C-O	5.79	126.69	120.55
1	bo	61	GLY	CA-C-N	5.79	132.61	121.54
1	bo	61	GLY	C-N-CA	5.79	132.61	121.54
1	bq	177	ALA	N-CA-C	5.79	118.41	110.24
1	bs	128	GLU	N-CA-C	5.79	117.27	111.07
1	bt	139	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	by	84	HIS	O-C-N	-5.79	114.47	121.02
1	bC	38	PRO	CA-C-N	5.79	127.97	120.44
1	bC	38	PRO	C-N-CA	5.79	127.97	120.44
1	bP	132	ARG	CA-C-N	5.79	128.52	120.29
1	bP	132	ARG	C-N-CA	5.79	128.52	120.29
1	bW	174	ALA	O-C-N	-5.79	115.98	122.12
1	c0	12	HIS	O-C-N	-5.79	116.78	123.33
1	ca	161	PHE	CA-C-O	5.79	126.69	120.55
1	cg	226	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	ct	146	SER	N-CA-CB	5.79	118.59	110.07
1	cA	191	VAL	N-CA-CB	5.79	116.94	110.51
1	cX	165	VAL	CA-C-N	5.79	127.97	120.44
1	cX	165	VAL	C-N-CA	5.79	127.97	120.44
1	dh	98	GLU	CA-C-O	-5.79	114.01	119.80
1	dx	129	ILE	CA-C-N	5.79	128.52	120.29
1	dx	129	ILE	C-N-CA	5.79	128.52	120.29
1	dy	173	ARG	N-CA-C	5.79	118.54	111.82
1	dN	95	GLN	O-C-N	-5.79	116.44	123.10
1	dX	187	GLU	N-CA-CB	-5.79	101.59	110.16
1	dZ	52	LEU	CA-C-N	5.79	127.97	120.44
1	dZ	52	LEU	C-N-CA	5.79	127.97	120.44
1	e2	34	PRO	CA-C-N	5.79	128.32	120.38
1	e2	34	PRO	C-N-CA	5.79	128.32	120.38
1	ek	140	LYS	N-CA-C	5.79	117.27	111.07
1	eq	84	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	ew	166	ASP	O-C-N	-5.79	115.98	122.12
1	ey	103	ASP	CA-C-N	5.79	128.65	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ey	103	ASP	C-N-CA	5.79	128.65	120.42
1	ez	33	SER	CA-C-O	-5.79	114.14	120.17
1	eB	107	THR	CA-CB-OG1	5.79	118.29	109.60
1	eI	144	MET	N-CA-C	5.79	117.40	111.14
1	eJ	177	ALA	N-CA-C	5.79	118.76	110.24
1	eX	85	PRO	CA-C-O	-5.79	117.02	121.31
1	eY	172	LEU	O-C-N	-5.79	114.67	122.43
1	f4	197	ASP	CA-C-N	5.79	128.36	120.54
1	f4	197	ASP	C-N-CA	5.79	128.36	120.54
1	f8	4	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	f8	51	ASP	N-CA-C	5.79	117.27	111.07
1	ff	23	TRP	CB-CG-CD2	5.79	134.91	126.80
1	ff	103	ASP	CA-C-O	-5.79	112.95	119.79
1	fj	205	LEU	N-CA-C	5.79	118.54	111.82
1	fl	131	LYS	N-CA-C	5.79	117.59	111.28
1	fu	26	VAL	N-CA-C	5.79	116.57	110.72
1	fy	183	ASN	CA-C-N	5.79	128.32	120.44
1	fy	183	ASN	C-N-CA	5.79	128.32	120.44
1	fD	145	TYR	CB-CA-C	-5.79	100.93	110.72
1	fI	180	GLU	N-CA-CB	-5.79	101.60	110.12
1	fJ	190	LEU	CA-C-N	5.79	128.65	120.42
1	fJ	190	LEU	C-N-CA	5.79	128.65	120.42
1	fU	168	PHE	CA-C-N	5.79	129.12	120.31
1	fU	168	PHE	C-N-CA	5.79	129.12	120.31
1	fW	69	LEU	CA-C-O	5.79	127.10	120.90
1	d	61	GLY	CA-C-N	5.79	130.63	122.46
1	d	61	GLY	C-N-CA	5.79	130.63	122.46
1	e	124	ILE	O-C-N	-5.79	115.59	120.92
1	n	117	TRP	N-CA-C	5.79	117.59	111.28
1	o	184	TRP	CA-CB-CG	5.79	124.61	113.60
1	B	77	ALA	O-C-N	-5.79	115.98	122.12
1	F	229	ARG	O-C-N	-5.79	115.00	122.94
1	G	142	VAL	N-CA-C	5.79	115.98	110.42
1	Q	51	ASP	CA-CB-CG	5.79	118.39	112.60
1	X	196	PRO	CA-C-N	5.79	128.04	120.28
1	X	196	PRO	C-N-CA	5.79	128.04	120.28
1	g8	70	LYS	N-CA-C	5.79	117.67	111.36
1	gb	161	PHE	CA-C-N	5.79	128.36	120.54
1	gb	161	PHE	C-N-CA	5.79	128.36	120.54
1	gC	221	VAL	O-C-N	-5.79	116.25	121.87
1	gF	39	MET	CA-C-N	5.79	128.04	120.28
1	gF	39	MET	C-N-CA	5.79	128.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gL	225	GLY	O-C-N	-5.79	117.02	122.75
1	gY	17	PRO	N-CA-C	-5.79	106.13	114.18
1	h4	73	ILE	N-CA-C	5.79	115.98	110.42
1	h5	58	THR	O-C-N	-5.79	114.47	122.46
1	1H	144	MET	CG-SD-CE	-5.79	88.16	100.90
1	h9	171	THR	CA-CB-CG2	5.79	120.34	110.50
1	he	155	GLN	CA-C-N	5.79	130.96	121.87
1	he	155	GLN	C-N-CA	5.79	130.96	121.87
1	hf	90	PRO	N-CA-CB	5.79	109.46	103.38
1	hu	71	GLU	CA-CB-CG	5.79	125.68	114.10
1	hu	211	LEU	CB-CA-C	5.79	120.40	110.79
1	hw	155	GLN	O-C-N	-5.79	115.66	122.96
1	hx	62	HIS	ND1-CG-CD2	5.79	111.89	106.10
1	hL	80	TRP	CD2-CE2-CZ2	-5.79	116.61	122.40
1	hL	96	MET	CA-C-O	-5.79	114.57	120.71
1	hU	186	THR	CA-C-N	5.79	128.04	120.28
1	hU	186	THR	C-N-CA	5.79	128.04	120.28
1	hW	225	GLY	O-C-N	-5.79	115.17	122.70
1	i7	175	GLU	O-C-N	-5.79	115.69	122.81
1	ie	47	ALA	O-C-N	-5.79	116.18	123.01
1	iE	62	HIS	ND1-CG-CD2	5.79	111.89	106.10
1	iF	12	HIS	CB-CG-CD2	-5.79	123.67	131.20
1	iL	120	HIS	CB-CG-CD2	-5.79	123.67	131.20
1	iQ	163	ASP	CA-CB-CG	-5.79	106.81	112.60
1	iX	92	GLU	CA-C-O	-5.79	114.66	120.63
1	j8	147	PRO	N-CA-C	5.79	120.32	111.11
1	jc	134	ILE	CB-CA-C	-5.79	104.23	112.22
1	je	226	HIS	CA-C-N	5.79	130.99	123.00
1	je	226	HIS	C-N-CA	5.79	130.99	123.00
1	jh	181	VAL	O-C-N	-5.79	115.88	121.90
1	ji	83	LEU	N-CA-C	5.79	117.39	111.14
1	js	62	HIS	CB-CA-C	5.79	119.95	111.73
1	jt	215	MET	N-CA-C	-5.79	104.93	112.23
1	jA	74	ASN	CA-CB-CG	-5.79	106.81	112.60
1	jC	204	ALA	N-CA-CB	-5.79	101.30	110.28
1	jE	100	ARG	NH1-CZ-NH2	-5.79	111.77	119.30
1	k2	4	GLN	N-CA-C	5.79	119.10	111.28
1	k6	206	GLY	O-C-N	-5.79	115.98	121.77
1	ka	183	ASN	CA-C-N	5.79	128.04	120.28
1	ka	183	ASN	C-N-CA	5.79	128.04	120.28
1	ka	218	CYS	N-CA-C	5.79	119.68	111.92
1	kj	132	ARG	CA-C-N	5.79	128.32	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kj	132	ARG	C-N-CA	5.79	128.32	120.44
1	kv	221	VAL	N-CA-C	5.79	117.05	109.58
1	ky	39	MET	CG-SD-CE	-5.79	88.16	100.90
1	kM	51	ASP	CA-C-N	5.79	128.04	120.28
1	kM	51	ASP	C-N-CA	5.79	128.04	120.28
1	kP	89	GLY	CA-C-N	5.79	127.08	119.84
1	kP	89	GLY	C-N-CA	5.79	127.08	119.84
1	l8	91	ILE	CA-CB-CG1	5.79	120.25	110.40
1	li	164	TYR	CA-C-N	5.79	127.86	120.56
1	li	164	TYR	C-N-CA	5.79	127.86	120.56
1	li	205	LEU	CA-C-N	5.79	130.96	121.87
1	li	205	LEU	C-N-CA	5.79	130.96	121.87
1	ln	28	GLU	CA-C-N	5.79	130.38	120.71
1	ln	28	GLU	C-N-CA	5.79	130.38	120.71
1	lq	48	THR	CA-C-N	5.79	125.92	119.32
1	lq	48	THR	C-N-CA	5.79	125.92	119.32
1	lA	181	VAL	O-C-N	-5.79	116.23	121.91
1	lF	120	HIS	CA-CB-CG	-5.79	108.01	113.80
1	lP	12	HIS	CA-C-N	5.79	129.09	120.87
1	lP	12	HIS	C-N-CA	5.79	129.09	120.87
1	lP	87	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	2k	57	ASN	CA-CB-CG	-5.79	106.81	112.60
1	2l	21	ASN	CA-C-N	5.79	128.51	120.29
1	2l	21	ASN	C-N-CA	5.79	128.51	120.29
1	2J	165	VAL	CB-CA-C	5.79	119.61	112.02
1	2S	100	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	2T	1	PRO	CA-C-N	5.79	130.89	123.13
1	2T	1	PRO	C-N-CA	5.79	130.89	123.13
1	3d	156	GLY	CA-C-N	5.79	127.08	119.84
1	3d	156	GLY	C-N-CA	5.79	127.08	119.84
1	3n	57	ASN	N-CA-C	5.79	117.67	111.36
1	3s	23	TRP	CA-C-O	5.79	126.56	120.42
1	3S	133	TRP	CE2-CD2-CE3	5.79	124.59	118.80
1	3U	82	ARG	N-CA-C	-5.79	104.93	112.23
1	3Z	68	MET	CG-SD-CE	-5.79	88.16	100.90
1	40	21	ASN	N-CA-C	5.79	117.27	111.07
1	45	208	ALA	O-C-N	-5.79	114.67	122.43
1	46	71	GLU	O-C-N	-5.79	115.98	122.12
1	4b	73	ILE	N-CA-C	5.79	115.98	110.42
1	4e	226	HIS	N-CA-C	5.79	118.84	109.40
1	4m	204	ALA	CA-C-O	-5.79	114.38	120.63
1	4B	176	GLN	OE1-CD-NE2	-5.79	116.81	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	113	GLU	CA-C-N	5.79	127.97	120.44
1	4E	113	GLU	C-N-CA	5.79	127.97	120.44
1	4K	62	HIS	CB-CG-ND1	-5.79	114.01	122.70
1	50	33	SER	CA-C-O	-5.79	115.01	120.34
1	5h	211	LEU	CA-C-O	-5.79	114.38	120.63
1	5o	28	GLU	N-CA-C	5.79	118.06	111.11
1	5B	55	MET	CG-SD-CE	-5.79	88.16	100.90
1	5D	195	ASN	CA-C-O	-5.79	114.15	120.17
1	5J	173	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	5V	100	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	60	180	GLU	O-C-N	-5.79	115.98	122.12
1	61	229	ARG	CB-CA-C	-5.79	101.79	110.24
1	6a	46	GLY	O-C-N	-5.79	114.98	122.34
1	6j	184	TRP	CA-C-N	5.79	128.84	120.79
1	6j	184	TRP	C-N-CA	5.79	128.84	120.79
1	6l	92	GLU	N-CA-C	-5.79	97.01	109.81
1	6B	117	TRP	N-CA-C	5.79	117.59	111.28
1	6E	146	SER	O-C-N	-5.79	116.39	121.31
1	6Z	186	THR	CA-C-O	-5.79	114.28	120.42
1	73	163	ASP	N-CA-C	5.79	117.59	111.28
1	77	204	ALA	O-C-N	-5.79	114.16	122.03
1	79	84	HIS	N-CA-C	5.79	118.70	110.24
1	7k	138	LEU	N-CA-CB	5.79	118.73	110.16
1	7m	92	GLU	CA-C-O	-5.79	114.80	120.19
1	7x	215	MET	CA-C-N	5.79	128.04	120.28
1	7x	215	MET	C-N-CA	5.79	128.04	120.28
1	7Z	55	MET	CA-C-O	5.79	127.10	120.90
1	8d	138	LEU	CA-C-N	5.79	128.84	120.79
1	8d	138	LEU	C-N-CA	5.79	128.84	120.79
1	8f	201	ILE	N-CA-CB	5.79	117.33	110.55
1	8j	73	ILE	CA-CB-CG2	-5.79	100.66	110.50
1	8n	55	MET	CA-C-O	5.79	126.90	120.82
1	8q	150	ILE	CA-CB-CG2	-5.79	100.66	110.50
1	8C	3	VAL	CA-CB-CG1	5.79	120.24	110.40
1	8P	209	ALA	N-CA-CB	-5.79	100.70	110.49
1	8S	178	SER	CA-C-N	5.79	128.51	120.29
1	8S	178	SER	C-N-CA	5.79	128.51	120.29
1	8T	12	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	8X	171	THR	O-C-N	-5.79	116.11	122.07
1	8Y	211	LEU	CA-C-O	5.79	126.69	120.55
1	94	87	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	99	101	GLY	CA-C-O	5.79	127.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	117	TRP	CG-CD1-NE1	-5.79	102.67	110.20
1	9x	19	THR	N-CA-C	5.79	117.27	111.07
1	9z	18	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	9A	228	ALA	O-C-N	-5.79	115.71	122.89
1	9G	111	LEU	CA-C-N	5.79	128.04	120.28
1	9G	111	LEU	C-N-CA	5.79	128.04	120.28
1	a1	121	ASN	CA-CB-CG	5.79	118.39	112.60
1	a2	77	ALA	N-CA-C	5.79	117.59	111.28
1	a7	87	HIS	CA-C-N	5.79	127.97	120.44
1	a7	87	HIS	C-N-CA	5.79	127.97	120.44
1	ae	24	VAL	O-C-N	5.79	127.49	121.87
1	af	134	ILE	CB-CA-C	5.79	119.38	111.97
1	al	143	ARG	N-CA-CB	5.79	118.73	110.16
1	ao	10	MET	O-C-N	-5.79	117.22	123.42
1	ap	154	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	az	32	PHE	N-CA-CB	5.79	119.64	110.49
1	aG	172	LEU	O-C-N	-5.79	115.98	122.12
1	aS	48	THR	CA-CB-OG1	5.79	118.29	109.60
1	aU	31	ALA	CB-CA-C	-5.79	100.83	110.68
1	16	103	ASP	CA-CB-CG	-5.79	106.81	112.60
1	bb	229	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	bg	77	ALA	CA-C-N	5.79	128.51	120.29
1	bg	77	ALA	C-N-CA	5.79	128.51	120.29
1	bi	165	VAL	N-CA-C	-5.79	104.87	110.72
1	bv	132	ARG	CD-NE-CZ	-5.79	116.29	124.40
1	c4	171	THR	N-CA-CB	5.79	118.73	110.16
1	ce	2	ILE	CA-CB-CG1	5.79	120.25	110.40
1	cM	17	PRO	N-CA-CB	5.79	108.70	103.20
1	d7	165	VAL	N-CA-C	5.79	116.57	110.72
1	dh	31	ALA	CA-C-N	5.79	132.60	121.54
1	dh	31	ALA	C-N-CA	5.79	132.60	121.54
1	ds	181	VAL	CA-C-N	5.79	128.62	120.28
1	ds	181	VAL	C-N-CA	5.79	128.62	120.28
1	dA	74	ASN	CA-CB-CG	-5.79	106.81	112.60
1	dQ	72	THR	CA-C-N	5.79	128.40	120.46
1	dQ	72	THR	C-N-CA	5.79	128.40	120.46
1	dS	123	PRO	O-C-N	-5.79	115.78	122.85
1	e5	28	GLU	N-CA-CB	5.79	118.73	110.16
1	eg	214	MET	N-CA-C	5.79	117.59	111.28
1	ej	163	ASP	CA-CB-CG	-5.79	106.81	112.60
1	1s	65	ALA	O-C-N	-5.79	115.98	122.12
1	eI	114	GLN	CA-C-N	5.79	127.86	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eI	114	GLN	C-N-CA	5.79	127.86	120.56
1	eT	134	ILE	N-CA-CB	5.79	117.33	110.55
1	f4	16	SER	CB-CA-C	-5.79	100.37	109.52
1	f4	95	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	fk	143	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	fq	120	HIS	CB-CG-CD2	-5.79	123.67	131.20
1	1x	12	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	fu	2	ILE	CA-C-N	5.79	131.37	122.68
1	fu	2	ILE	C-N-CA	5.79	131.37	122.68
1	fC	226	HIS	CA-CB-CG	-5.79	108.01	113.80
1	fL	175	GLU	N-CA-CB	5.79	118.48	109.85
1	fM	113	GLU	CA-C-O	-5.79	114.41	120.55
1	fP	152	ASP	CA-CB-CG	5.79	118.39	112.60
1	fY	83	LEU	O-C-N	-5.79	115.39	122.11
1	c	44	SER	O-C-N	-5.79	114.96	122.37
1	2	111	LEU	N-CA-C	5.79	118.34	111.33
1	z	184	TRP	CA-CB-CG	5.79	124.61	113.60
1	D	62	HIS	CG-CD2-NE2	5.79	112.99	107.20
1	E	26	VAL	N-CA-C	5.79	115.98	110.42
1	R	155	GLN	CA-C-N	5.79	130.96	121.87
1	R	155	GLN	C-N-CA	5.79	130.96	121.87
1	gf	213	GLU	CB-CG-CD	5.79	122.44	112.60
1	gm	164	TYR	N-CA-C	5.79	118.34	111.33
1	hf	55	MET	CA-C-N	5.79	128.04	120.28
1	hf	55	MET	C-N-CA	5.79	128.04	120.28
1	hF	180	GLU	CA-C-O	5.79	126.63	119.97
1	hM	15	ILE	CA-C-O	5.79	127.64	121.04
1	1M	99	PRO	CA-C-N	5.79	130.03	120.94
1	1M	99	PRO	C-N-CA	5.79	130.03	120.94
1	hY	147	PRO	N-CA-CB	5.79	109.33	103.25
1	is	118	MET	N-CA-C	5.79	120.07	112.89
1	1R	55	MET	CA-C-O	5.79	126.90	120.82
1	iI	18	ARG	N-CA-C	5.79	117.59	111.28
1	j1	201	ILE	O-C-N	-5.79	116.25	121.87
1	jC	41	SER	CA-C-N	5.79	127.97	120.44
1	jC	41	SER	C-N-CA	5.79	127.97	120.44
1	jS	65	ALA	CA-C-O	5.79	126.69	120.55
1	k0	56	LEU	CA-C-N	5.79	129.11	120.31
1	k0	56	LEU	C-N-CA	5.79	129.11	120.31
1	kf	202	LEU	CA-C-N	5.79	127.97	120.44
1	kf	202	LEU	C-N-CA	5.79	127.97	120.44
1	kp	123	PRO	CB-CA-C	5.79	118.91	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	22	44	SER	N-CA-CB	5.79	119.76	111.65
1	le	127	GLY	N-CA-C	5.79	120.18	112.77
1	28	36	VAL	CA-C-N	5.79	124.96	120.33
1	28	36	VAL	C-N-CA	5.79	124.96	120.33
1	lu	115	ILE	CA-C-N	5.79	126.37	120.00
1	lu	115	ILE	C-N-CA	5.79	126.37	120.00
1	2i	119	THR	CA-C-N	5.79	131.51	120.97
1	2i	119	THR	C-N-CA	5.79	131.51	120.97
1	2w	64	ALA	CA-C-O	-5.79	114.41	120.55
1	2X	168	PHE	CA-C-N	5.79	128.04	120.28
1	2X	168	PHE	C-N-CA	5.79	128.04	120.28
1	2Y	163	ASP	O-C-N	-5.79	114.57	122.33
1	3Z	48	THR	CA-C-N	5.79	125.48	119.05
1	3Z	48	THR	C-N-CA	5.79	125.48	119.05
1	51	214	MET	N-CA-C	5.79	118.34	111.33
1	52	79	GLU	N-CA-C	5.79	118.06	111.11
1	5C	89	GLY	CA-C-N	5.79	126.70	119.98
1	5C	89	GLY	C-N-CA	5.79	126.70	119.98
1	5T	75	GLU	CA-C-N	5.79	129.11	120.31
1	5T	75	GLU	C-N-CA	5.79	129.11	120.31
1	67	112	GLN	CA-C-O	5.79	126.69	120.55
1	6B	166	ASP	N-CA-CB	-5.79	101.59	110.16
1	6D	37	ILE	CA-C-N	5.79	127.08	119.84
1	6D	37	ILE	C-N-CA	5.79	127.08	119.84
1	6D	84	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	6E	5	ASN	CA-CB-CG	5.79	118.39	112.60
1	7x	51	ASP	CA-CB-CG	5.79	118.39	112.60
1	83	166	ASP	N-CA-C	5.79	117.27	111.07
1	8Y	13	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	9n	120	HIS	CB-CG-CD2	-5.79	123.67	131.20
1	Y	113	GLU	CA-C-N	5.79	128.36	120.54
1	Y	113	GLU	C-N-CA	5.79	128.36	120.54
1	ab	183	ASN	CA-C-N	5.79	127.97	120.44
1	ab	183	ASN	C-N-CA	5.79	127.97	120.44
1	bh	217	ALA	N-CA-C	5.79	118.98	109.72
1	bl	74	ASN	N-CA-C	5.79	118.54	111.82
1	bs	100	ARG	NH1-CZ-NH2	-5.79	111.77	119.30
1	bw	128	GLU	CA-C-O	5.79	126.90	120.82
1	bA	173	ARG	CG-CD-NE	-5.79	99.26	112.00
1	bL	109	SER	N-CA-CB	5.79	120.07	110.63
1	1c	97	ARG	N-CA-C	5.79	123.13	110.80
1	cN	50	GLN	OE1-CD-NE2	5.79	128.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	139	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	de	34	PRO	N-CA-C	5.79	124.40	112.47
1	dl	83	LEU	O-C-N	5.79	128.03	122.07
1	dQ	79	GLU	N-CA-CB	5.79	118.73	110.16
1	ey	130	TYR	N-CA-C	5.79	118.06	111.11
1	eA	154	ARG	CA-C-N	5.79	129.06	120.95
1	eA	154	ARG	C-N-CA	5.79	129.06	120.95
1	eD	162	ARG	CA-C-O	5.79	127.09	120.90
1	eR	164	TYR	N-CA-CB	5.79	118.63	110.12
1	fC	170	LYS	O-C-N	-5.79	115.84	122.09
1	fG	178	SER	CA-C-O	-5.79	112.23	120.51
1	g0	199	LYS	N-CA-CB	5.79	118.63	110.12
1	e	16	SER	N-CA-C	5.79	117.18	109.83
1	q	176	GLN	CA-C-N	5.79	128.98	120.82
1	q	176	GLN	C-N-CA	5.79	128.98	120.82
1	u	80	TRP	CA-C-N	5.79	128.36	120.54
1	u	80	TRP	C-N-CA	5.79	128.36	120.54
1	C	57	ASN	N-CA-C	-5.79	105.80	112.92
1	L	54	THR	N-CA-CB	5.79	118.57	109.94
1	P	164	TYR	N-CA-C	5.79	117.27	111.07
1	7	18	ARG	CA-C-O	5.79	126.62	119.79
1	gb	25	LYS	O-C-N	-5.79	115.15	122.27
1	gq	53	ASN	CB-CG-ND2	-5.79	107.72	116.40
1	gw	195	ASN	O-C-N	5.79	126.13	121.38
1	gA	115	ILE	CB-CA-C	-5.79	104.33	112.14
1	gF	112	GLN	CA-C-N	5.79	128.31	120.44
1	gF	112	GLN	C-N-CA	5.79	128.31	120.44
1	gT	37	ILE	O-C-N	-5.79	116.72	120.42
1	gV	39	MET	CG-SD-CE	-5.79	88.16	100.90
1	h6	5	ASN	CA-C-O	5.79	126.21	119.32
1	h9	122	PRO	CA-C-N	5.79	125.81	119.90
1	h9	122	PRO	C-N-CA	5.79	125.81	119.90
1	he	162	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	ho	29	GLU	N-CA-C	5.79	117.39	111.14
1	hG	166	ASP	CA-CB-CG	5.79	118.39	112.60
1	hJ	133	TRP	CG-CD2-CE3	-5.79	128.11	133.90
1	1L	42	ALA	O-C-N	-5.79	115.55	122.15
1	1N	160	PRO	N-CA-C	5.79	120.31	111.34
1	1N	164	TYR	N-CA-CB	-5.79	101.61	110.12
1	i8	52	LEU	O-C-N	5.79	128.11	122.09
1	ia	188	THR	O-C-N	5.79	127.12	120.58
1	ik	184	TRP	N-CA-C	5.79	117.26	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	128	GLU	N-CA-C	5.79	118.06	111.11
1	iu	84	HIS	CA-C-O	-5.79	114.61	119.76
1	ix	133	TRP	CB-CG-CD2	-5.79	118.70	126.80
1	iz	76	GLU	O-C-N	-5.79	116.11	122.07
1	iA	82	ARG	NH1-CZ-NH2	-5.79	111.77	119.30
1	iD	136	LEU	CA-C-N	5.79	126.25	119.94
1	iD	136	LEU	C-N-CA	5.79	126.25	119.94
1	iI	62	HIS	CA-CB-CG	-5.79	108.01	113.80
1	iL	103	ASP	CA-CB-CG	-5.79	106.81	112.60
1	iY	193	ASN	N-CA-CB	5.79	119.70	110.73
1	j8	82	ARG	N-CA-C	5.79	117.59	111.28
1	j8	125	PRO	N-CA-CB	-5.79	98.50	102.73
1	js	219	GLN	CG-CD-NE2	5.79	125.08	116.40
1	1X	65	ALA	N-CA-C	5.79	117.67	111.36
1	jM	132	ARG	NH1-CZ-NH2	-5.79	111.78	119.30
1	jR	133	TRP	CA-C-O	5.79	126.69	120.55
1	jT	187	GLU	CB-CG-CD	5.79	122.44	112.60
1	jW	86	VAL	CA-CB-CG2	5.79	120.24	110.40
1	kt	139	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	kB	24	VAL	N-CA-CB	5.79	118.41	110.54
1	kC	120	HIS	N-CA-C	5.79	117.53	110.41
1	lf	12	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	27	113	GLU	O-C-N	-5.79	115.55	122.15
1	lH	37	ILE	CB-CA-C	-5.79	108.20	113.70
1	lP	1	PRO	CB-CA-C	5.79	121.10	110.10
1	2c	224	PRO	N-CA-CB	-5.79	97.17	103.25
1	2k	196	PRO	N-CA-C	5.79	124.40	112.47
1	2l	153	ILE	CA-C-N	5.79	129.33	121.05
1	2l	153	ILE	C-N-CA	5.79	129.33	121.05
1	2n	33	SER	CA-C-N	5.79	126.18	119.47
1	2n	33	SER	C-N-CA	5.79	126.18	119.47
1	2J	47	ALA	O-C-N	-5.79	115.69	122.81
1	2S	183	ASN	CA-CB-CG	5.79	118.39	112.60
1	2Z	150	ILE	CA-CB-CG1	5.79	120.24	110.40
1	3c	98	GLU	CA-C-O	-5.79	115.33	120.19
1	3c	151	LEU	N-CA-C	5.79	118.37	111.71
1	3q	9	GLN	CG-CD-NE2	5.79	125.08	116.40
1	3s	69	LEU	O-C-N	-5.79	116.11	122.07
1	3A	229	ARG	N-CA-C	5.79	123.13	110.80
1	3S	43	LEU	CA-C-O	5.79	126.49	119.31
1	3Z	184	TRP	CB-CG-CD1	-5.79	118.22	126.90
1	4D	110	THR	O-C-N	-5.79	116.58	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Y	59	VAL	O-C-N	-5.79	116.77	122.67
1	54	92	GLU	O-C-N	-5.79	115.16	121.53
1	5k	198	CYS	N-CA-C	5.79	117.26	111.07
1	5s	195	ASN	CA-C-O	-5.79	114.68	120.64
1	5E	134	ILE	N-CA-CB	5.79	117.98	110.57
1	5G	124	ILE	N-CA-CB	5.79	119.31	111.21
1	6c	5	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	6i	219	GLN	CA-C-N	5.79	131.90	122.69
1	6i	219	GLN	C-N-CA	5.79	131.90	122.69
1	6r	134	ILE	N-CA-C	5.79	115.98	110.42
1	6s	21	ASN	CA-CB-CG	5.79	118.39	112.60
1	6w	167	ARG	NH1-CZ-NH2	-5.79	111.78	119.30
1	6D	204	ALA	CA-C-N	5.79	127.97	120.44
1	6D	204	ALA	C-N-CA	5.79	127.97	120.44
1	6E	68	MET	O-C-N	-5.79	116.11	122.07
1	6I	62	HIS	N-CA-C	5.79	119.38	111.39
1	6K	167	ARG	N-CA-C	5.79	117.26	111.07
1	75	53	ASN	CA-C-O	5.79	126.88	120.63
1	7a	203	LYS	N-CA-CB	-5.79	101.38	110.06
1	7b	150	ILE	CA-C-N	5.79	128.51	120.29
1	7b	150	ILE	C-N-CA	5.79	128.51	120.29
1	7b	230	VAL	CA-C-N	5.79	132.12	121.70
1	7b	230	VAL	C-N-CA	5.79	132.12	121.70
1	7B	90	PRO	N-CA-CB	-5.79	97.17	103.25
1	7D	107	THR	N-CA-C	5.79	118.06	111.11
1	85	191	VAL	N-CA-C	5.79	118.33	111.09
1	8i	137	GLY	CA-C-N	5.79	128.03	120.28
1	8i	137	GLY	C-N-CA	5.79	128.03	120.28
1	8s	9	GLN	N-CA-C	5.79	118.22	110.35
1	8A	135	ILE	N-CA-C	5.79	116.53	110.62
1	8N	197	ASP	N-CA-C	5.79	117.26	111.07
1	9k	159	GLU	CA-C-O	-5.79	115.00	119.46
1	9G	114	GLN	N-CA-C	5.79	117.26	111.07
1	9H	107	THR	N-CA-CB	5.79	118.60	110.90
1	9N	66	MET	N-CA-C	-5.79	105.71	112.89
1	9R	201	ILE	N-CA-C	5.79	116.44	110.36
1	ab	37	ILE	O-C-N	-5.79	115.96	120.07
1	ac	58	THR	N-CA-CB	5.79	120.00	110.39
1	ak	64	ALA	N-CA-C	5.79	117.59	111.28
1	at	58	THR	N-CA-CB	5.79	119.25	110.28
1	ax	7	GLN	CA-C-O	5.79	127.69	121.55
1	13	140	LYS	CA-C-N	5.79	128.64	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13	140	LYS	C-N-CA	5.79	128.64	120.42
1	aF	135	ILE	CA-C-O	-5.79	114.93	120.95
1	aI	110	THR	CA-C-N	5.79	128.31	120.38
1	aI	110	THR	C-N-CA	5.79	128.31	120.38
1	aM	133	TRP	O-C-N	-5.79	115.98	122.12
1	aP	190	LEU	CA-C-N	5.79	128.39	120.46
1	aP	190	LEU	C-N-CA	5.79	128.39	120.46
1	b4	103	ASP	N-CA-C	5.79	119.52	112.23
1	bb	16	SER	O-C-N	-5.79	115.16	121.53
1	bh	180	GLU	CA-C-O	5.79	126.90	120.82
1	bk	109	SER	CA-C-O	5.79	127.66	120.54
1	bm	49	PRO	N-CA-CB	5.79	109.33	103.25
1	bI	17	PRO	N-CA-CB	5.79	109.66	103.52
1	1a	149	SER	CA-C-N	5.79	128.39	120.46
1	1a	149	SER	C-N-CA	5.79	128.39	120.46
1	1a	228	ALA	CA-C-N	5.79	129.05	120.95
1	1a	228	ALA	C-N-CA	5.79	129.05	120.95
1	bO	203	LYS	CA-C-N	5.79	128.04	120.28
1	bO	203	LYS	C-N-CA	5.79	128.04	120.28
1	1b	48	THR	CA-C-O	-5.79	115.93	121.08
1	cm	188	THR	CA-C-N	5.79	128.61	120.28
1	cm	188	THR	C-N-CA	5.79	128.61	120.28
1	cr	9	GLN	CA-C-N	5.79	129.33	120.82
1	cr	9	GLN	C-N-CA	5.79	129.33	120.82
1	cX	62	HIS	ND1-CG-CD2	5.79	111.89	106.10
1	d3	121	ASN	CA-C-O	-5.79	114.95	119.99
1	db	94	GLY	CA-C-N	5.79	131.59	122.21
1	db	94	GLY	C-N-CA	5.79	131.59	122.21
1	dj	195	ASN	CA-C-N	5.79	125.33	119.19
1	dj	195	ASN	C-N-CA	5.79	125.33	119.19
1	dp	52	LEU	CA-C-N	5.79	128.35	120.54
1	dp	52	LEU	C-N-CA	5.79	128.35	120.54
1	dB	22	ALA	O-C-N	-5.79	115.98	122.12
1	dE	134	ILE	N-CA-C	5.79	117.22	110.62
1	dK	198	CYS	CA-C-N	5.79	128.04	120.28
1	dK	198	CYS	C-N-CA	5.79	128.04	120.28
1	1n	167	ARG	CA-C-N	5.79	128.04	120.28
1	1n	167	ARG	C-N-CA	5.79	128.04	120.28
1	e1	34	PRO	CA-C-N	5.79	128.62	120.28
1	e1	34	PRO	C-N-CA	5.79	128.62	120.28
1	1p	104	ILE	CA-C-N	5.79	130.39	120.72
1	1p	104	ILE	C-N-CA	5.79	130.39	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	en	52	LEU	CA-C-N	5.79	128.62	120.28
1	en	52	LEU	C-N-CA	5.79	128.62	120.28
1	er	114	GLN	O-C-N	-5.79	115.55	122.15
1	es	159	GLU	N-CA-C	5.79	117.89	109.84
1	ex	13	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	ex	67	GLN	N-CA-C	5.79	117.67	111.36
1	ez	28	GLU	CA-C-O	5.79	126.90	120.82
1	ez	162	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	eJ	40	PHE	CA-CB-CG	-5.79	108.01	113.80
1	f0	217	ALA	CA-C-N	5.79	130.80	122.35
1	f0	217	ALA	C-N-CA	5.79	130.80	122.35
1	f1	201	ILE	O-C-N	-5.79	116.25	121.87
1	fl	35	GLU	O-C-N	-5.79	114.86	122.39
1	fo	141	ILE	N-CA-CB	5.79	117.71	110.47
1	fp	168	PHE	N-CA-CB	5.79	118.57	109.94
1	fs	51	ASP	CA-CB-CG	-5.79	106.81	112.60
1	fu	193	ASN	O-C-N	-5.79	115.11	122.34
1	fI	214	MET	N-CA-C	5.79	117.59	111.28
1	fJ	33	SER	CA-C-N	5.79	127.08	119.84
1	fJ	33	SER	C-N-CA	5.79	127.08	119.84
1	g2	4	GLN	O-C-N	-5.79	117.23	123.42
1	g	37	ILE	CA-C-O	-5.79	114.31	118.71
1	k	15	ILE	CA-C-N	5.79	128.43	120.67
1	k	15	ILE	C-N-CA	5.79	128.43	120.67
1	l	144	MET	CA-C-N	-5.79	113.47	122.67
1	l	144	MET	C-N-CA	-5.79	113.47	122.67
1	m	183	ASN	CA-CB-CG	5.79	118.39	112.60
1	m	215	MET	CG-SD-CE	-5.79	88.17	100.90
1	I	65	ALA	N-CA-C	5.79	117.26	111.07
1	4	134	ILE	CB-CA-C	5.79	119.95	112.14
1	Q	95	GLN	CA-C-O	-5.79	115.41	121.55
1	S	166	ASP	O-C-N	5.79	128.03	122.07
1	5	15	ILE	CA-C-N	5.79	128.44	120.39
1	5	15	ILE	C-N-CA	5.79	128.44	120.39
1	9	12	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	gB	72	THR	O-C-N	5.79	128.03	122.07
1	1J	180	GLU	CA-C-O	-5.79	114.74	120.82
1	hu	104	ILE	CB-CA-C	-5.79	104.56	111.97
1	i1	142	VAL	CB-CA-C	-5.79	104.56	111.97
1	i5	185	MET	CG-SD-CE	-5.79	88.17	100.90
1	j1	143	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	jr	209	ALA	N-CA-CB	5.79	118.57	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	104	ILE	N-CA-C	5.79	117.22	110.62
1	jN	132	ARG	CG-CD-NE	-5.79	99.27	112.00
1	jU	4	GLN	N-CA-C	5.79	117.64	108.79
1	jY	140	LYS	CG-CD-CE	5.79	124.61	111.30
1	k2	158	LYS	N-CA-C	-5.79	106.12	112.72
1	k7	47	ALA	CA-C-O	-5.79	114.68	121.16
1	km	55	MET	O-C-N	-5.79	116.07	122.09
1	kn	91	ILE	CA-C-O	5.79	126.48	119.54
1	kM	230	VAL	O-C-N	-5.79	116.30	122.61
1	l6	195	ASN	CA-C-N	5.79	127.07	119.84
1	l6	195	ASN	C-N-CA	5.79	127.07	119.84
1	l9	23	TRP	CA-C-N	5.79	128.07	120.60
1	l9	23	TRP	C-N-CA	5.79	128.07	120.60
1	ln	93	PRO	N-CA-CB	5.79	109.33	103.25
1	lM	206	GLY	CA-C-N	5.79	125.41	119.56
1	lM	206	GLY	C-N-CA	5.79	125.41	119.56
1	2J	120	HIS	CA-C-O	5.79	128.78	120.51
1	2N	136	LEU	O-C-N	-5.79	115.99	122.12
1	2P	120	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	35	38	PRO	N-CA-CB	5.79	109.65	103.52
1	3b	176	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	3F	21	ASN	CA-CB-CG	5.79	118.39	112.60
1	3H	206	GLY	CA-C-O	-5.79	113.24	121.52
1	42	229	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	4E	226	HIS	ND1-CE1-NE2	5.79	114.19	108.40
1	4H	148	THR	O-C-N	-5.79	116.46	123.29
1	4J	75	GLU	N-CA-C	5.79	117.67	111.36
1	4T	107	THR	CA-CB-CG2	5.79	120.34	110.50
1	4V	214	MET	CG-SD-CE	-5.79	88.17	100.90
1	54	65	ALA	CA-C-N	5.79	128.35	120.54
1	54	65	ALA	C-N-CA	5.79	128.35	120.54
1	5i	132	ARG	CG-CD-NE	-5.79	99.27	112.00
1	5i	214	MET	CG-SD-CE	-5.79	88.17	100.90
1	5p	220	GLY	CA-C-N	5.79	129.61	120.47
1	5p	220	GLY	C-N-CA	5.79	129.61	120.47
1	5D	143	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	61	72	THR	OG1-CB-CG2	-5.79	97.73	109.30
1	68	113	GLU	N-CA-CB	-5.79	101.59	110.16
1	68	150	ILE	O-C-N	-5.79	116.26	121.87
1	6k	37	ILE	CA-C-O	5.79	123.11	118.71
1	6m	89	GLY	CA-C-N	5.79	125.55	119.76
1	6m	89	GLY	C-N-CA	5.79	125.55	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6o	16	SER	CA-C-N	5.79	125.32	119.19
1	6o	16	SER	C-N-CA	5.79	125.32	119.19
1	77	55	MET	N-CA-C	5.79	118.06	111.11
1	7f	87	HIS	ND1-CG-CD2	5.79	111.89	106.10
1	7u	150	ILE	CA-C-O	-5.79	114.93	120.95
1	7A	28	GLU	CA-C-O	-5.79	114.74	120.82
1	82	167	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	8h	200	THR	N-CA-C	5.79	117.59	111.28
1	8A	51	ASP	CA-C-N	5.79	127.96	120.44
1	8A	51	ASP	C-N-CA	5.79	127.96	120.44
1	8X	181	VAL	N-CA-C	-5.79	105.45	111.58
1	9V	43	LEU	CB-CA-C	-5.79	101.39	110.94
1	an	55	MET	N-CA-C	5.79	118.06	111.11
1	aB	60	GLY	O-C-N	-5.79	115.18	122.70
1	aJ	78	ALA	CA-C-N	5.79	128.03	120.28
1	aJ	78	ALA	C-N-CA	5.79	128.03	120.28
1	aU	121	ASN	O-C-N	-5.79	114.11	121.29
1	bc	27	VAL	CA-C-N	5.79	128.35	120.54
1	bc	27	VAL	C-N-CA	5.79	128.35	120.54
1	bh	170	LYS	N-CA-C	5.79	117.26	111.07
1	bm	21	ASN	CA-CB-CG	5.79	118.39	112.60
1	bt	57	ASN	CA-CB-CG	-5.79	106.81	112.60
1	bx	68	MET	N-CA-C	5.79	117.59	111.28
1	bW	129	ILE	N-CA-C	5.79	116.52	110.62
1	c4	11	VAL	CA-C-N	5.79	132.11	122.73
1	c4	11	VAL	C-N-CA	5.79	132.11	122.73
1	cN	190	LEU	O-C-N	-5.79	116.11	122.07
1	cQ	110	THR	N-CA-CB	5.79	119.09	110.29
1	cU	197	ASP	CA-C-N	5.79	128.03	120.28
1	cU	197	ASP	C-N-CA	5.79	128.03	120.28
1	d6	76	GLU	CA-C-N	5.79	127.96	120.44
1	d6	76	GLU	C-N-CA	5.79	127.96	120.44
1	dd	211	LEU	CA-C-N	5.79	127.96	120.44
1	dd	211	LEU	C-N-CA	5.79	127.96	120.44
1	df	153	ILE	N-CA-C	5.79	118.92	109.78
1	dp	205	LEU	CA-C-N	5.79	130.96	121.87
1	dp	205	LEU	C-N-CA	5.79	130.96	121.87
1	eF	22	ALA	O-C-N	-5.79	115.99	122.12
1	eW	100	ARG	NH1-CZ-NH2	-5.79	111.78	119.30
1	eX	226	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	fo	22	ALA	N-CA-C	5.79	117.26	111.07
1	fF	14	ALA	CA-C-N	5.79	128.25	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fF	14	ALA	C-N-CA	5.79	128.25	120.50
1	fK	78	ALA	CA-C-N	5.79	127.96	120.44
1	fK	78	ALA	C-N-CA	5.79	127.96	120.44
1	fM	122	PRO	CA-C-N	5.79	127.07	119.84
1	fM	122	PRO	C-N-CA	5.79	127.07	119.84
1	7	32	PHE	CB-CG-CD1	-5.79	110.86	120.70
1	g9	74	ASN	O-C-N	-5.79	115.99	122.12
1	gi	16	SER	CA-C-N	5.79	125.64	119.28
1	gi	16	SER	C-N-CA	5.79	125.64	119.28
1	gl	196	PRO	N-CA-C	-5.79	105.99	113.57
1	gz	229	ARG	NE-CZ-NH1	5.79	127.29	121.50
1	gF	89	GLY	CA-C-O	-5.79	113.25	121.52
1	gF	156	GLY	CA-C-N	5.79	125.40	119.56
1	gF	156	GLY	C-N-CA	5.79	125.40	119.56
1	gO	94	GLY	CA-C-O	5.79	124.74	118.95
1	gR	193	ASN	CA-C-O	5.79	126.20	119.32
1	gS	170	LYS	CA-C-N	5.79	128.35	120.54
1	gS	170	LYS	C-N-CA	5.79	128.35	120.54
1	gU	42	ALA	O-C-N	-5.79	115.56	122.15
1	1H	47	ALA	CA-C-N	5.79	129.47	120.68
1	1H	47	ALA	C-N-CA	5.79	129.47	120.68
1	hg	120	HIS	O-C-N	-5.79	114.53	122.23
1	hp	163	ASP	CA-C-O	5.79	126.62	119.79
1	hw	213	GLU	N-CA-C	5.79	117.59	111.28
1	hz	229	ARG	NH1-CZ-NH2	-5.79	111.78	119.30
1	1K	41	SER	O-C-N	-5.79	115.99	122.12
1	hA	142	VAL	CA-CB-CG1	5.79	120.24	110.40
1	hG	9	GLN	CA-C-O	5.79	126.95	119.95
1	hH	9	GLN	CA-C-O	-5.79	114.11	120.30
1	1M	184	TRP	CA-C-N	5.79	128.03	120.28
1	1M	184	TRP	C-N-CA	5.79	128.03	120.28
1	hX	169	TYR	N-CA-C	5.79	117.59	111.28
1	i4	101	GLY	O-C-N	5.79	127.73	122.18
1	id	63	GLN	OE1-CD-NE2	-5.79	116.81	122.60
1	iq	161	PHE	N-CA-CB	5.79	120.27	110.49
1	it	107	THR	CA-C-N	5.79	131.32	122.29
1	it	107	THR	C-N-CA	5.79	131.32	122.29
1	1Q	73	ILE	N-CA-CB	5.79	117.32	110.55
1	iC	8	GLY	O-C-N	-5.79	116.69	123.17
1	iH	138	LEU	O-C-N	5.79	128.25	122.12
1	iN	140	LYS	N-CA-C	5.79	117.59	111.28
1	iR	139	ASN	CA-CB-CG	5.79	118.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	58	THR	N-CA-CB	5.79	119.99	110.39
1	j1	180	GLU	CA-C-O	-5.79	112.78	119.14
1	jj	201	ILE	CA-C-O	5.79	127.30	121.17
1	jr	111	LEU	CA-C-N	5.79	130.39	121.19
1	jr	111	LEU	C-N-CA	5.79	130.39	121.19
1	js	157	PRO	O-C-N	-5.79	114.83	122.64
1	jy	120	HIS	CE1-NE2-CD2	-5.79	103.22	109.00
1	jC	21	ASN	CA-CB-CG	5.79	118.39	112.60
1	jF	84	HIS	CA-C-O	-5.79	114.85	119.71
1	k1	76	GLU	N-CA-C	5.79	117.67	111.36
1	k4	12	HIS	CA-CB-CG	-5.79	108.02	113.80
1	k7	214	MET	N-CA-C	5.79	119.60	112.54
1	21	162	ARG	NE-CZ-NH2	5.79	124.41	119.20
1	kp	120	HIS	N-CA-C	5.79	117.53	110.41
1	kp	221	VAL	O-C-N	-5.79	115.34	122.57
1	kC	50	GLN	N-CA-C	5.79	117.59	111.28
1	kL	219	GLN	N-CA-C	5.79	118.10	109.25
1	kM	221	VAL	O-C-N	-5.79	115.26	121.80
1	kN	207	PRO	O-C-N	5.79	130.45	122.64
1	l2	42	ALA	CA-C-O	5.79	126.68	120.55
1	l7	40	PHE	CA-C-N	5.79	128.03	120.28
1	l7	40	PHE	C-N-CA	5.79	128.03	120.28
1	26	2	ILE	O-C-N	-5.79	116.30	122.61
1	lo	13	GLN	N-CA-C	5.79	117.76	109.14
1	lD	119	THR	CA-C-O	5.79	126.31	119.48
1	lF	191	VAL	N-CA-CB	-5.79	104.64	112.22
1	lJ	46	GLY	O-C-N	-5.79	116.74	122.41
1	lL	215	MET	N-CA-C	5.79	118.33	111.33
1	lM	78	ALA	N-CA-C	-5.79	104.97	111.28
1	2j	10	MET	N-CA-C	5.79	118.64	109.50
1	2j	154	ARG	NH1-CZ-NH2	-5.79	111.78	119.30
1	2p	84	HIS	CA-CB-CG	-5.79	108.01	113.80
1	2u	188	THR	CA-CB-CG2	5.79	120.33	110.50
1	2U	126	VAL	N-CA-C	5.79	116.43	110.36
1	3q	105	ALA	N-CA-C	-5.79	105.99	113.16
1	3s	154	ARG	CB-CG-CD	5.79	124.61	111.30
1	3F	169	TYR	CA-C-O	5.79	126.48	119.31
1	3I	72	THR	O-C-N	-5.79	116.11	122.07
1	3M	139	ASN	O-C-N	-5.79	115.60	122.20
1	4a	167	ARG	CA-C-N	5.79	127.96	120.44
1	4a	167	ARG	C-N-CA	5.79	127.96	120.44
1	4f	206	GLY	CA-C-O	-5.79	113.25	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4o	84	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	4W	84	HIS	CB-CA-C	-5.79	102.82	110.34
1	5d	156	GLY	N-CA-C	5.79	124.14	112.34
1	5l	24	VAL	O-C-N	-5.79	116.26	121.87
1	5r	171	THR	CA-C-N	5.79	130.47	120.58
1	5r	171	THR	C-N-CA	5.79	130.47	120.58
1	5y	12	HIS	CB-CG-CD2	-5.79	123.68	131.20
1	5y	183	ASN	N-CA-C	5.79	117.59	111.28
1	5C	6	LEU	N-CA-C	5.79	117.67	111.36
1	5E	25	LYS	CA-C-O	5.79	126.68	120.55
1	5L	159	GLU	CA-C-N	5.79	125.55	119.76
1	5L	159	GLU	C-N-CA	5.79	125.55	119.76
1	5N	3	VAL	CA-CB-CG1	5.79	120.24	110.40
1	5Z	24	VAL	CA-C-O	5.79	126.98	120.85
1	6s	77	ALA	CB-CA-C	-5.79	101.19	110.79
1	6v	209	ALA	CA-C-O	-5.79	114.98	121.81
1	6v	210	THR	N-CA-CB	5.79	118.50	110.17
1	6y	226	HIS	CE1-NE2-CD2	-5.79	103.22	109.00
1	6R	114	GLN	CA-C-N	5.79	129.79	120.30
1	6R	114	GLN	C-N-CA	5.79	129.79	120.30
1	71	27	VAL	N-CA-CB	-5.79	102.67	110.54
1	7b	14	ALA	O-C-N	-5.79	115.85	122.68
1	7F	57	ASN	OD1-CG-ND2	-5.79	116.81	122.60
1	7M	218	CYS	O-C-N	-5.79	116.03	122.91
1	7P	190	LEU	N-CA-C	5.79	117.59	111.28
1	7Q	88	ALA	CA-C-O	5.79	126.21	119.32
1	7Y	25	LYS	CA-C-N	5.79	127.85	120.56
1	7Y	25	LYS	C-N-CA	5.79	127.85	120.56
1	88	84	HIS	O-C-N	-5.79	116.25	121.17
1	8h	210	THR	O-C-N	-5.79	115.53	122.65
1	8q	58	THR	CA-CB-CG2	5.79	120.33	110.50
1	8D	97	ARG	NE-CZ-NH1	-5.79	115.72	121.50
1	8L	117	TRP	CB-CG-CD2	-5.79	118.70	126.80
1	8Q	9	GLN	N-CA-C	5.79	118.99	109.85
1	8U	29	GLU	N-CA-C	5.79	118.08	111.02
1	8Y	230	VAL	O-C-N	-5.79	116.56	122.23
1	8Z	84	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	8Z	97	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	9j	169	TYR	CA-C-O	5.79	126.68	120.55
1	9n	50	GLN	N-CA-C	5.79	118.05	111.11
1	9o	229	ARG	NE-CZ-NH2	5.79	124.41	119.20
1	9w	89	GLY	CA-C-N	5.79	125.72	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9w	89	GLY	C-N-CA	5.79	125.72	119.76
1	9B	170	LYS	O-C-N	-5.79	115.99	122.12
1	9F	62	HIS	CB-CA-C	-5.79	103.35	111.80
1	9H	144	MET	N-CA-C	5.79	117.26	111.07
1	9K	96	MET	CG-SD-CE	-5.79	88.17	100.90
1	9L	131	LYS	CA-C-O	5.79	126.64	120.10
1	9Q	45	GLU	CB-CA-C	-5.79	100.63	109.89
1	9V	192	GLN	O-C-N	-5.79	115.99	122.12
1	9X	27	VAL	CA-C-N	5.79	127.96	120.44
1	9X	27	VAL	C-N-CA	5.79	127.96	120.44
1	a1	139	ASN	CB-CA-C	5.79	120.68	110.85
1	a2	15	ILE	CB-CA-C	5.79	119.58	111.08
1	aa	156	GLY	O-C-N	-5.79	115.98	121.77
1	ad	9	GLN	N-CA-C	5.79	117.76	110.24
1	aE	198	CYS	CB-CA-C	-5.79	101.19	110.79
1	aZ	109	SER	N-CA-C	5.79	119.15	109.95
1	b9	64	ALA	N-CA-C	5.79	117.26	111.07
1	bi	12	HIS	CB-CG-CD2	-5.79	123.68	131.20
1	bs	24	VAL	O-C-N	-5.79	115.70	122.07
1	bB	190	LEU	N-CA-C	5.79	118.05	111.11
1	bF	224	PRO	CA-C-N	5.79	129.94	121.96
1	bF	224	PRO	C-N-CA	5.79	129.94	121.96
1	bP	82	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	bS	30	LYS	CA-C-N	5.79	128.83	120.38
1	bS	30	LYS	C-N-CA	5.79	128.83	120.38
1	bS	169	TYR	N-CA-C	5.79	117.26	111.07
1	c1	126	VAL	O-C-N	-5.79	116.06	121.90
1	c9	183	ASN	N-CA-C	5.79	118.05	111.11
1	cw	143	ARG	CA-C-N	5.79	127.96	120.44
1	cw	143	ARG	C-N-CA	5.79	127.96	120.44
1	1f	135	ILE	O-C-N	-5.79	116.22	121.89
1	cI	176	GLN	N-CA-C	5.79	119.54	111.90
1	cP	91	ILE	CA-C-O	5.79	126.72	120.47
1	cW	133	TRP	CA-C-N	5.79	127.85	120.56
1	cW	133	TRP	C-N-CA	5.79	127.85	120.56
1	d0	108	THR	CA-CB-OG1	5.79	118.28	109.60
1	d4	66	MET	O-C-N	-5.79	114.58	122.33
1	d8	213	GLU	CA-C-O	5.79	126.89	120.82
1	dc	226	HIS	CB-CG-ND1	-5.79	114.02	122.70
1	de	216	THR	O-C-N	-5.79	115.36	122.25
1	dr	21	ASN	CA-C-N	5.79	127.96	120.44
1	dr	21	ASN	C-N-CA	5.79	127.96	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	108	THR	CB-CA-C	-5.79	100.48	110.72
1	dF	72	THR	O-C-N	-5.79	116.11	122.07
1	dY	155	GLN	CA-C-N	5.79	130.95	121.87
1	dY	155	GLN	C-N-CA	5.79	130.95	121.87
1	eb	59	VAL	CB-CA-C	5.79	119.95	111.33
1	ec	169	TYR	CA-C-N	5.79	128.03	120.28
1	ec	169	TYR	C-N-CA	5.79	128.03	120.28
1	ej	44	SER	CA-C-N	5.79	128.03	120.28
1	ej	44	SER	C-N-CA	5.79	128.03	120.28
1	el	92	GLU	CA-C-N	5.79	126.73	120.83
1	el	92	GLU	C-N-CA	5.79	126.73	120.83
1	eD	193	ASN	CA-C-N	5.79	132.59	121.54
1	eD	193	ASN	C-N-CA	5.79	132.59	121.54
1	eI	229	ARG	NE-CZ-NH2	-5.79	113.99	119.20
1	eQ	25	LYS	O-C-N	-5.79	114.89	122.59
1	eQ	120	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	eR	126	VAL	CA-CB-CG2	5.79	120.24	110.40
1	eW	10	MET	O-C-N	-5.79	116.63	123.11
1	fh	225	GLY	O-C-N	-5.79	115.18	122.70
1	fj	48	THR	CA-CB-OG1	5.79	118.28	109.60
1	fm	124	ILE	N-CA-C	-5.79	101.29	107.77
1	fr	5	ASN	CA-C-O	5.79	127.40	120.28
1	fE	213	GLU	CA-C-O	5.79	126.64	120.10
1	fM	68	MET	CA-C-O	5.79	126.55	120.42
1	fS	187	GLU	CB-CG-CD	-5.79	102.77	112.60
1	a	226	HIS	CE1-NE2-CD2	-5.79	103.22	109.00
1	f	55	MET	CA-C-O	5.79	126.55	120.42
1	g	84	HIS	N-CA-C	5.79	119.62	108.45
1	q	51	ASP	N-CA-C	5.79	117.58	111.28
1	F	191	VAL	CB-CA-C	-5.79	103.19	112.16
1	P	52	LEU	CA-C-O	5.79	126.68	120.55
1	5	230	VAL	N-CA-C	-5.79	107.21	111.90
1	ga	219	GLN	CA-C-O	5.78	126.66	120.70
1	gs	29	GLU	CB-CG-CD	5.78	122.43	112.60
1	gy	49	PRO	CA-C-N	5.78	128.30	120.38
1	gy	49	PRO	C-N-CA	5.78	128.30	120.38
1	gH	107	THR	CB-CA-C	-5.78	100.58	110.24
1	gN	25	LYS	N-CA-C	5.78	117.58	111.28
1	gS	77	ALA	N-CA-C	5.78	117.26	111.07
1	gW	48	THR	N-CA-C	-5.78	102.13	110.40
1	h8	87	HIS	N-CA-C	5.78	119.68	109.96
1	hi	145	TYR	CA-C-O	-5.78	113.56	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hx	78	ALA	O-C-N	-5.78	114.71	122.23
1	hA	177	ALA	O-C-N	-5.78	114.90	122.59
1	hI	50	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	hS	192	GLN	CA-C-N	5.78	132.26	122.26
1	hS	192	GLN	C-N-CA	5.78	132.26	122.26
1	hU	92	GLU	O-C-N	-5.78	115.34	121.30
1	hV	195	ASN	CA-C-O	-5.78	114.41	120.02
1	hX	108	THR	O-C-N	5.78	128.15	122.19
1	hY	81	ASP	CA-CB-CG	-5.78	106.82	112.60
1	hZ	124	ILE	CA-C-O	5.78	123.65	119.25
1	if	83	LEU	O-C-N	-5.78	114.58	122.33
1	il	71	GLU	CA-C-O	-5.78	114.39	120.63
1	ip	205	LEU	CA-C-N	5.78	130.95	121.87
1	ip	205	LEU	C-N-CA	5.78	130.95	121.87
1	iq	97	ARG	O-C-N	-5.78	116.04	122.86
1	it	74	ASN	CA-C-N	5.78	127.96	120.44
1	it	74	ASN	C-N-CA	5.78	127.96	120.44
1	ix	18	ARG	CA-C-O	5.78	126.68	120.55
1	iE	111	LEU	CA-C-O	5.78	126.68	120.55
1	iE	130	TYR	O-C-N	-5.78	116.11	122.07
1	iO	219	GLN	CA-C-N	5.78	129.47	121.26
1	iO	219	GLN	C-N-CA	5.78	129.47	121.26
1	1S	217	ALA	N-CA-C	5.78	118.09	109.59
1	j8	189	LEU	CA-C-O	-5.78	114.42	120.55
1	jc	154	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	je	159	GLU	CB-CG-CD	-5.78	102.77	112.60
1	je	226	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	jo	106	GLY	CA-C-N	5.78	128.50	120.29
1	jo	106	GLY	C-N-CA	5.78	128.50	120.29
1	jw	46	GLY	CA-C-N	5.78	128.98	120.82
1	jw	46	GLY	C-N-CA	5.78	128.98	120.82
1	jE	210	THR	N-CA-CB	5.78	118.16	110.29
1	jF	111	LEU	CA-C-N	5.78	128.35	120.54
1	jF	111	LEU	C-N-CA	5.78	128.35	120.54
1	jK	198	CYS	N-CA-C	-5.78	104.94	112.23
1	jP	21	ASN	N-CA-C	5.78	117.66	111.36
1	jV	104	ILE	O-C-N	-5.78	116.26	121.87
1	k6	3	VAL	N-CA-C	5.78	117.96	109.63
1	k6	204	ALA	CA-C-O	5.78	126.68	120.55
1	k9	49	PRO	CA-C-N	5.78	128.31	120.44
1	k9	49	PRO	C-N-CA	5.78	128.31	120.44
1	kb	210	THR	N-CA-C	5.78	118.22	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kd	75	GLU	CB-CG-CD	-5.78	102.77	112.60
1	kI	179	GLN	N-CA-CB	-5.78	101.62	110.12
1	kX	221	VAL	CA-C-O	-5.78	115.00	121.36
1	lm	126	VAL	N-CA-C	5.78	116.52	110.62
1	ln	208	ALA	N-CA-C	-5.78	104.43	112.30
1	lv	204	ALA	O-C-N	-5.78	115.99	122.12
1	lK	195	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	lR	92	GLU	CA-C-N	5.78	127.07	119.84
1	lR	92	GLU	C-N-CA	5.78	127.07	119.84
1	2w	190	LEU	CA-C-O	5.78	126.68	120.55
1	2F	5	ASN	O-C-N	-5.78	114.90	122.59
1	2L	12	HIS	CA-CB-CG	5.78	119.58	113.80
1	2R	90	PRO	CB-CA-C	-5.78	102.49	111.40
1	2R	159	GLU	N-CA-C	5.78	117.92	109.71
1	30	126	VAL	N-CA-C	5.78	116.52	110.62
1	38	226	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	3i	81	ASP	N-CA-CB	-5.78	100.79	110.39
1	3v	14	ALA	CA-C-O	5.78	127.55	121.19
1	3y	174	ALA	N-CA-CB	-5.78	100.97	110.40
1	3K	7	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	3W	20	LEU	CA-C-N	5.78	127.96	120.44
1	3W	20	LEU	C-N-CA	5.78	127.96	120.44
1	3Y	200	THR	N-CA-C	5.78	117.26	111.07
1	3Z	203	LYS	N-CA-CB	5.78	118.40	110.01
1	40	93	PRO	N-CA-C	5.78	124.39	112.47
1	4q	202	LEU	CD1-CG-CD2	-5.78	98.08	110.80
1	4A	74	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	52	79	GLU	O-C-N	5.78	128.11	122.09
1	5S	228	ALA	N-CA-CB	-5.78	101.42	110.44
1	62	144	MET	N-CA-C	5.78	117.58	111.28
1	65	128	GLU	CB-CG-CD	-5.78	102.77	112.60
1	67	154	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	6d	97	ARG	O-C-N	-5.78	116.66	123.25
1	6t	88	ALA	N-CA-C	5.78	118.84	110.28
1	6v	120	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	6z	33	SER	CA-C-O	-5.78	114.77	120.26
1	6A	86	VAL	CA-C-N	5.78	129.08	120.87
1	6A	86	VAL	C-N-CA	5.78	129.08	120.87
1	6A	202	LEU	O-C-N	-5.78	116.11	122.07
1	6J	143	ARG	CA-C-N	5.78	127.96	120.44
1	6J	143	ARG	C-N-CA	5.78	127.96	120.44
1	6K	129	ILE	O-C-N	-5.78	116.26	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6O	106	GLY	CA-C-O	5.78	125.48	119.00
1	7j	201	ILE	O-C-N	-5.78	115.89	121.90
1	7l	28	GLU	CA-C-O	-5.78	114.75	120.82
1	7m	61	GLY	O-C-N	-5.78	116.86	123.51
1	7n	167	ARG	CA-C-N	5.78	128.03	120.28
1	7n	167	ARG	C-N-CA	5.78	128.03	120.28
1	7p	229	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	7C	74	ASN	CB-CA-C	5.78	119.96	110.88
1	7L	74	ASN	CA-C-N	5.78	128.03	120.28
1	7L	74	ASN	C-N-CA	5.78	128.03	120.28
1	7W	24	VAL	CA-CB-CG2	-5.78	100.57	110.40
1	7Z	115	ILE	O-C-N	-5.78	116.24	121.91
1	80	174	ALA	CA-C-N	5.78	129.05	120.95
1	80	174	ALA	C-N-CA	5.78	129.05	120.95
1	82	192	GLN	N-CA-C	5.78	117.58	111.28
1	8c	141	ILE	CB-CA-C	5.78	119.37	111.97
1	8w	143	ARG	CD-NE-CZ	-5.78	116.30	124.40
1	8w	181	VAL	CA-C-N	5.78	128.03	120.28
1	8w	181	VAL	C-N-CA	5.78	128.03	120.28
1	8H	191	VAL	CA-C-N	5.78	128.03	120.28
1	8H	191	VAL	C-N-CA	5.78	128.03	120.28
1	8L	182	LYS	CA-C-N	5.78	128.03	120.28
1	8L	182	LYS	C-N-CA	5.78	128.03	120.28
1	8X	212	GLU	CA-C-N	5.78	128.50	120.29
1	8X	212	GLU	C-N-CA	5.78	128.50	120.29
1	9f	197	ASP	CA-CB-CG	5.78	118.38	112.60
1	9A	73	ILE	CA-C-N	5.78	128.31	120.44
1	9A	73	ILE	C-N-CA	5.78	128.31	120.44
1	9D	23	TRP	CD2-CE2-CZ2	5.78	128.18	122.40
1	9J	55	MET	CA-C-N	5.78	127.96	120.44
1	9J	55	MET	C-N-CA	5.78	127.96	120.44
1	9O	131	LYS	CA-C-N	5.78	128.50	120.29
1	9O	131	LYS	C-N-CA	5.78	128.50	120.29
1	Z	77	ALA	N-CA-C	5.78	117.26	111.07
1	ah	179	GLN	CA-C-O	5.78	126.89	120.82
1	al	229	ARG	N-CA-CB	5.78	118.91	109.95
1	aq	80	TRP	CB-CG-CD1	-5.78	118.23	126.90
1	aQ	144	MET	N-CA-C	5.78	117.58	111.28
1	aS	187	GLU	N-CA-C	5.78	118.36	111.71
1	aS	195	ASN	CA-CB-CG	5.78	118.38	112.60
1	b5	204	ALA	N-CA-C	5.78	119.60	112.54
1	16	50	GLN	CB-CA-C	-5.78	101.19	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bJ	217	ALA	O-C-N	-5.78	116.20	122.79
1	bO	210	THR	O-C-N	-5.78	116.64	123.41
1	bQ	230	VAL	CB-CA-C	-5.78	104.58	110.88
1	bT	35	GLU	CA-C-O	5.78	126.64	120.10
1	bX	2	ILE	CA-C-O	-5.78	114.13	120.84
1	c6	5	ASN	CA-CB-CG	-5.78	106.82	112.60
1	c7	153	ILE	N-CA-CB	5.78	120.77	111.23
1	cv	226	HIS	CA-CB-CG	5.78	119.58	113.80
1	cV	227	LYS	N-CA-C	-5.78	105.88	113.17
1	d9	34	PRO	CB-CA-C	-5.78	103.24	111.68
1	1k	182	LYS	N-CA-CB	5.78	118.62	110.12
1	do	173	ARG	CA-C-O	-5.78	114.44	120.92
1	dJ	68	MET	CA-C-O	5.78	126.62	119.97
1	dP	114	GLN	N-CA-C	5.78	117.58	111.28
1	dY	208	ALA	N-CA-C	-5.78	106.85	114.31
1	e0	16	SER	CA-C-O	-5.78	114.92	119.66
1	e1	81	ASP	CA-C-O	5.78	126.55	120.42
1	1o	62	HIS	CB-CA-C	-5.78	104.11	111.86
1	e8	226	HIS	O-C-N	-5.78	115.16	122.27
1	1q	219	GLN	O-C-N	-5.78	116.66	123.25
1	1q	226	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	et	59	VAL	CA-CB-CG1	5.78	120.23	110.40
1	ex	134	ILE	CA-C-N	5.78	128.38	120.46
1	ex	134	ILE	C-N-CA	5.78	128.38	120.46
1	eA	139	ASN	CA-CB-CG	-5.78	106.82	112.60
1	eP	77	ALA	N-CA-CB	5.78	118.40	110.01
1	f1	214	MET	CA-C-O	5.78	126.89	120.82
1	fc	29	GLU	CA-C-O	5.78	126.55	120.42
1	fe	62	HIS	CB-CG-ND1	-5.78	114.03	122.70
1	1w	52	LEU	CA-C-N	5.78	128.03	120.28
1	1w	52	LEU	C-N-CA	5.78	128.03	120.28
1	1w	105	ALA	CA-C-N	5.78	131.40	122.20
1	1w	105	ALA	C-N-CA	5.78	131.40	122.20
1	fJ	92	GLU	CA-C-N	5.78	126.08	119.83
1	fJ	92	GLU	C-N-CA	5.78	126.08	119.83
1	fK	120	HIS	CB-CG-CD2	-5.78	123.68	131.20
1	g1	177	ALA	N-CA-CB	5.78	118.54	110.04
1	g5	186	THR	CA-C-O	-5.78	114.42	120.55
1	g6	218	CYS	N-CA-C	5.78	119.92	112.86
1	d	114	GLN	N-CA-C	5.78	117.58	111.28
1	k	170	LYS	N-CA-C	5.78	117.58	111.28
1	l	54	THR	O-C-N	-5.78	115.99	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	7	GLN	N-CA-CB	5.78	120.26	110.49
1	y	90	PRO	O-C-N	-5.78	114.83	122.64
1	K	160	PRO	CA-C-O	-5.78	114.85	121.56
1	M	169	TYR	O-C-N	5.78	129.38	122.27
1	M	227	LYS	CA-CB-CG	5.78	125.67	114.10
1	gG	230	VAL	N-CA-C	5.78	116.87	109.30
1	gL	104	ILE	CA-C-O	-5.78	114.38	120.57
1	gO	52	LEU	N-CA-C	5.78	117.58	111.28
1	gS	32	PHE	CA-CB-CG	-5.78	108.02	113.80
1	hf	47	ALA	N-CA-C	5.78	119.06	109.46
1	il	37	ILE	CA-C-O	-5.78	114.31	118.71
1	iq	121	ASN	CA-CB-CG	-5.78	106.82	112.60
1	ir	150	ILE	CA-CB-CG1	5.78	120.23	110.40
1	is	123	PRO	O-C-N	5.78	130.17	123.06
1	jw	72	THR	N-CA-C	5.78	118.33	111.33
1	jY	80	TRP	CA-C-N	5.78	128.03	120.28
1	jY	80	TRP	C-N-CA	5.78	128.03	120.28
1	k4	55	MET	CA-C-N	5.78	127.96	120.44
1	k4	55	MET	C-N-CA	5.78	127.96	120.44
1	kc	120	HIS	CA-CB-CG	5.78	119.58	113.80
1	kh	169	TYR	N-CA-CB	5.78	119.20	110.30
1	kG	216	THR	CA-CB-OG1	5.78	118.27	109.60
1	24	170	LYS	CA-C-O	5.78	126.68	120.55
1	kT	40	PHE	CA-C-N	5.78	128.03	120.28
1	kT	40	PHE	C-N-CA	5.78	128.03	120.28
1	ld	223	GLY	CA-C-N	5.78	125.72	119.76
1	ld	223	GLY	C-N-CA	5.78	125.72	119.76
1	lh	130	TYR	O-C-N	-5.78	115.16	122.27
1	2a	92	GLU	O-C-N	-5.78	114.94	121.36
1	2n	98	GLU	N-CA-C	5.78	117.17	109.83
1	2E	149	SER	N-CA-C	5.78	118.21	110.35
1	2V	15	ILE	O-C-N	-5.78	116.77	122.67
1	3r	64	ALA	N-CA-C	5.78	117.58	111.28
1	3X	213	GLU	N-CA-C	5.78	118.33	111.33
1	41	159	GLU	CB-CA-C	-5.78	100.54	109.62
1	4q	30	LYS	N-CA-CB	5.78	120.26	110.49
1	4Z	91	ILE	CA-C-N	5.78	130.11	120.86
1	4Z	91	ILE	C-N-CA	5.78	130.11	120.86
1	64	107	THR	N-CA-CB	5.78	118.45	110.07
1	6x	182	LYS	O-C-N	-5.78	115.99	122.12
1	73	218	CYS	CA-C-O	5.78	128.78	120.51
1	73	220	GLY	CA-C-O	5.78	126.96	119.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	74	111	LEU	N-CA-C	5.78	117.58	111.28
1	75	87	HIS	CB-CG-CD2	-5.78	123.68	131.20
1	7q	2	ILE	CA-C-O	-5.78	113.95	120.95
1	7v	3	VAL	CA-C-O	-5.78	114.19	120.67
1	7v	97	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	89	7	GLN	CB-CG-CD	-5.78	102.77	112.60
1	89	97	ARG	CD-NE-CZ	5.78	132.50	124.40
1	8k	137	GLY	O-C-N	-5.78	116.63	122.18
1	94	181	VAL	N-CA-C	5.78	116.43	110.36
1	9l	63	GLN	N-CA-C	5.78	117.66	111.36
1	9C	216	THR	CA-C-O	5.78	126.66	120.24
1	10	42	ALA	CA-C-N	5.78	128.03	120.28
1	10	42	ALA	C-N-CA	5.78	128.03	120.28
1	ag	74	ASN	N-CA-CB	5.78	118.62	110.12
1	an	124	ILE	O-C-N	-5.78	115.60	120.92
1	aA	177	ALA	N-CA-C	5.78	123.11	110.80
1	aE	147	PRO	CB-CA-C	-5.78	103.67	112.11
1	b7	168	PHE	O-C-N	-5.78	116.08	122.09
1	bg	87	HIS	N-CA-C	5.78	118.61	110.23
1	bn	44	SER	CB-CA-C	-5.78	101.65	111.02
1	bx	113	GLU	CA-C-N	5.78	128.03	120.28
1	bx	113	GLU	C-N-CA	5.78	128.03	120.28
1	bQ	37	ILE	CB-CG1-CD1	5.78	125.94	113.80
1	bY	209	ALA	CA-C-N	5.78	131.49	120.97
1	bY	209	ALA	C-N-CA	5.78	131.49	120.97
1	cr	218	CYS	CA-C-N	5.78	129.08	120.87
1	cr	218	CYS	C-N-CA	5.78	129.08	120.87
1	cH	169	TYR	O-C-N	-5.78	115.56	122.15
1	cP	140	LYS	N-CA-C	5.78	117.39	111.14
1	cW	98	GLU	O-C-N	-5.78	115.50	121.28
1	1i	87	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	1i	93	PRO	N-CA-C	5.78	120.30	111.34
1	dv	115	ILE	CA-C-O	5.78	126.76	120.57
1	dQ	84	HIS	CB-CA-C	5.78	117.23	109.42
1	dS	100	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	dS	130	TYR	N-CA-CB	5.78	118.45	110.07
1	fc	179	GLN	CB-CG-CD	5.78	122.43	112.60
1	fx	162	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	g3	191	VAL	CB-CA-C	-5.78	104.49	112.24
1	n	23	TRP	CA-C-N	5.78	128.38	120.46
1	n	23	TRP	C-N-CA	5.78	128.38	120.46
1	q	98	GLU	CA-C-O	-5.78	114.02	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	154	ARG	CA-C-O	-5.78	115.08	121.33
1	ge	142	VAL	N-CA-CB	5.78	118.40	110.54
1	gf	16	SER	O-C-N	-5.78	114.96	121.43
1	gl	47	ALA	O-C-N	-5.78	116.74	123.27
1	h3	97	ARG	O-C-N	-5.78	117.23	123.42
1	hb	158	LYS	CA-C-O	5.78	126.30	119.48
1	hg	112	GLN	CG-CD-OE1	5.78	132.36	120.80
1	hh	186	THR	O-C-N	-5.78	115.99	122.12
1	hk	133	TRP	CB-CG-CD1	5.78	135.57	126.90
1	1K	98	GLU	CA-C-O	-5.78	114.02	119.80
1	hI	151	LEU	CA-C-N	5.78	132.84	122.38
1	hI	151	LEU	C-N-CA	5.78	132.84	122.38
1	hL	145	TYR	O-C-N	-5.78	114.90	122.59
1	i0	202	LEU	CA-C-N	5.78	128.03	120.28
1	i0	202	LEU	C-N-CA	5.78	128.03	120.28
1	ig	120	HIS	CB-CG-ND1	5.78	131.37	122.70
1	ik	193	ASN	CA-C-N	5.78	129.31	121.05
1	ik	193	ASN	C-N-CA	5.78	129.31	121.05
1	iy	153	ILE	O-C-N	-5.78	115.34	122.57
1	iP	190	LEU	N-CA-CB	-5.78	101.62	110.12
1	jk	130	TYR	CB-CG-CD1	5.78	129.47	120.80
1	jk	166	ASP	CA-CB-CG	5.78	118.38	112.60
1	jt	19	THR	CA-CB-CG2	5.78	120.33	110.50
1	jy	53	ASN	CB-CG-OD1	5.78	132.36	120.80
1	jC	35	GLU	CA-C-N	5.78	128.38	120.46
1	jC	35	GLU	C-N-CA	5.78	128.38	120.46
1	jK	33	SER	N-CA-C	-5.78	102.13	110.40
1	jN	120	HIS	CB-CG-CD2	-5.78	123.69	131.20
1	1Y	67	GLN	CA-C-O	-5.78	114.42	120.55
1	jZ	212	GLU	CB-CG-CD	-5.78	102.77	112.60
1	k3	94	GLY	N-CA-C	5.78	121.40	111.98
1	21	130	TYR	CA-C-O	5.78	126.62	119.97
1	ky	116	GLY	CA-C-N	5.78	127.95	120.44
1	ky	116	GLY	C-N-CA	5.78	127.95	120.44
1	kA	98	GLU	O-C-N	-5.78	116.03	121.35
1	kD	148	THR	CA-C-O	-5.78	114.99	121.81
1	kF	184	TRP	N-CA-C	5.78	118.05	111.11
1	kK	15	ILE	CA-C-N	5.78	128.43	120.39
1	kK	15	ILE	C-N-CA	5.78	128.43	120.39
1	ld	99	PRO	CA-C-O	-5.78	115.05	121.23
1	ln	105	ALA	O-C-N	5.78	129.46	122.35
1	lD	97	ARG	NH1-CZ-NH2	-5.78	111.78	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	45	GLU	O-C-N	-5.78	115.99	122.12
1	lI	85	PRO	N-CA-C	5.78	120.68	111.26
1	lP	214	MET	CG-SD-CE	-5.78	88.18	100.90
1	2h	57	ASN	O-C-N	-5.78	114.90	122.59
1	2o	162	ARG	CG-CD-NE	-5.78	99.28	112.00
1	2p	10	MET	CG-SD-CE	-5.78	88.18	100.90
1	2E	38	PRO	CA-C-N	5.78	128.34	120.54
1	2E	38	PRO	C-N-CA	5.78	128.34	120.54
1	2E	192	GLN	CB-CA-C	-5.78	101.02	110.85
1	2R	120	HIS	O-C-N	-5.78	115.99	122.75
1	2V	142	VAL	N-CA-C	-5.78	106.68	112.17
1	32	97	ARG	NH1-CZ-NH2	-5.78	111.78	119.30
1	33	8	GLY	N-CA-C	5.78	121.16	114.16
1	3t	6	LEU	N-CA-CB	5.78	122.27	111.52
1	3G	7	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	4g	59	VAL	N-CA-C	5.78	121.36	109.34
1	4t	170	LYS	N-CA-C	5.78	117.58	111.28
1	4y	72	THR	N-CA-CB	5.78	118.39	110.01
1	4Y	120	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	50	33	SER	CA-C-N	5.78	127.06	119.84
1	50	33	SER	C-N-CA	5.78	127.06	119.84
1	54	47	ALA	N-CA-C	5.78	119.03	110.48
1	5e	119	THR	N-CA-CB	5.78	119.14	110.53
1	5u	72	THR	CA-C-N	5.78	127.84	120.56
1	5u	72	THR	C-N-CA	5.78	127.84	120.56
1	5z	189	LEU	CA-C-N	5.78	127.95	120.44
1	5z	189	LEU	C-N-CA	5.78	127.95	120.44
1	5E	172	LEU	CA-C-O	-5.78	112.50	119.49
1	5I	129	ILE	CB-CA-C	-5.78	104.34	112.14
1	5Z	85	PRO	N-CD-CG	5.78	111.87	103.20
1	60	165	VAL	CA-C-N	5.78	128.34	120.54
1	60	165	VAL	C-N-CA	5.78	128.34	120.54
1	6g	107	THR	N-CA-CB	5.78	119.34	110.61
1	6j	65	ALA	N-CA-C	5.78	117.58	111.28
1	6m	132	ARG	N-CA-C	5.78	117.58	111.28
1	6Q	217	ALA	N-CA-CB	-5.78	101.21	110.46
1	6R	146	SER	CA-C-O	-5.78	114.50	119.36
1	6Y	227	LYS	CA-C-O	-5.78	113.57	120.10
1	79	169	TYR	N-CA-C	5.78	118.36	111.71
1	7d	54	THR	O-C-N	-5.78	115.46	122.22
1	7h	149	SER	CA-C-N	5.78	129.75	121.02
1	7h	149	SER	C-N-CA	5.78	129.75	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7j	12	HIS	CA-CB-CG	-5.78	108.02	113.80
1	84	64	ALA	CB-CA-C	-5.78	101.77	110.90
1	8b	139	ASN	CA-CB-CG	5.78	118.38	112.60
1	8n	169	TYR	N-CA-CB	5.78	118.62	110.12
1	8o	171	THR	CA-C-N	5.78	128.60	120.28
1	8o	171	THR	C-N-CA	5.78	128.60	120.28
1	8p	226	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	8J	146	SER	CA-C-N	5.78	127.06	119.84
1	8J	146	SER	C-N-CA	5.78	127.06	119.84
1	8K	143	ARG	N-CA-C	-5.78	104.58	111.69
1	8N	115	ILE	N-CA-C	5.78	116.52	110.62
1	8N	226	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	8P	73	ILE	N-CA-C	5.78	115.97	110.42
1	9f	12	HIS	CA-CB-CG	-5.78	108.02	113.80
1	9q	192	GLN	N-CA-C	5.78	117.26	111.07
1	9H	35	GLU	N-CA-C	5.78	118.32	111.33
1	9K	97	ARG	NE-CZ-NH2	5.78	124.40	119.20
1	Y	44	SER	N-CA-C	-5.78	105.81	112.92
1	a0	9	GLN	O-C-N	-5.78	115.91	123.02
1	a2	79	GLU	N-CA-C	5.78	117.25	111.07
1	ai	100	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	an	57	ASN	N-CA-CB	5.78	118.55	109.94
1	aH	64	ALA	CA-C-N	5.78	128.03	120.28
1	aH	64	ALA	C-N-CA	5.78	128.03	120.28
1	aI	162	ARG	NE-CZ-NH1	-5.78	115.72	121.50
1	aO	34	PRO	N-CA-CB	-5.78	97.18	103.25
1	aS	81	ASP	CA-C-N	5.78	128.03	120.28
1	aS	81	ASP	C-N-CA	5.78	128.03	120.28
1	b7	12	HIS	CB-CG-ND1	5.78	131.37	122.70
1	bh	178	SER	CA-C-O	5.78	127.31	121.07
1	bo	128	GLU	N-CA-C	5.78	117.38	111.14
1	bq	120	HIS	CA-CB-CG	5.78	119.58	113.80
1	bE	191	VAL	O-C-N	-5.78	115.89	121.90
1	bI	161	PHE	N-CA-CB	-5.78	101.62	110.12
1	bK	96	MET	CG-SD-CE	-5.78	88.18	100.90
1	bK	219	GLN	O-C-N	-5.78	116.50	123.03
1	bP	226	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	c0	159	GLU	CA-C-N	5.78	127.07	119.84
1	c0	159	GLU	C-N-CA	5.78	127.07	119.84
1	cg	41	SER	N-CA-CB	5.78	118.39	110.01
1	cg	54	THR	N-CA-CB	5.78	118.62	110.12
1	cI	196	PRO	N-CA-C	5.78	124.38	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d5	124	ILE	O-C-N	-5.78	116.95	121.46
1	d7	18	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	dc	14	ALA	CA-C-N	5.78	128.47	120.49
1	dc	14	ALA	C-N-CA	5.78	128.47	120.49
1	dd	68	MET	CA-C-O	5.78	126.65	120.70
1	dh	47	ALA	N-CA-C	5.78	118.63	109.96
1	do	120	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	dF	146	SER	CA-C-O	-5.78	112.24	120.16
1	dS	206	GLY	CA-C-N	5.78	126.54	120.12
1	dS	206	GLY	C-N-CA	5.78	126.54	120.12
1	1o	102	SER	N-CA-C	5.78	118.36	111.71
1	e5	24	VAL	N-CA-C	5.78	116.52	110.62
1	eg	79	GLU	N-CA-CB	5.78	118.55	109.94
1	eo	173	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	eu	174	ALA	N-CA-C	5.78	117.58	111.28
1	eI	154	ARG	CA-C-O	5.78	127.57	120.92
1	f5	184	TRP	O-C-N	-5.78	115.99	122.12
1	fp	91	ILE	O-C-N	-5.78	115.89	122.94
1	fF	142	VAL	CA-C-N	5.78	127.95	120.44
1	fF	142	VAL	C-N-CA	5.78	127.95	120.44
1	fJ	228	ALA	CA-C-O	5.78	127.70	118.92
1	fO	142	VAL	N-CA-C	5.78	116.43	110.36
1	fR	114	GLN	CA-C-N	5.78	128.38	120.46
1	fR	114	GLN	C-N-CA	5.78	128.38	120.46
1	fV	179	GLN	CG-CD-NE2	5.78	125.07	116.40
1	g3	132	ARG	N-CA-CB	5.78	118.73	110.06
1	1	54	THR	N-CA-CB	5.78	118.71	110.16
1	n	126	VAL	N-CA-CB	5.78	117.31	110.55
1	s	101	GLY	O-C-N	-5.78	116.56	122.17
1	N	3	VAL	CB-CA-C	-5.78	104.57	110.93
1	X	219	GLN	N-CA-C	5.78	117.58	111.28
1	g9	206	GLY	O-C-N	-5.78	115.99	121.77
1	gK	77	ALA	CA-C-N	5.78	129.09	120.31
1	gK	77	ALA	C-N-CA	5.78	129.09	120.31
1	gY	181	VAL	N-CA-CB	5.78	118.40	110.54
1	hF	162	ARG	NE-CZ-NH2	5.78	124.40	119.20
1	ia	221	VAL	CA-CB-CG2	-5.78	100.58	110.40
1	iD	230	VAL	CA-C-N	5.78	132.10	121.70
1	iD	230	VAL	C-N-CA	5.78	132.10	121.70
1	ja	84	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	jR	152	ASP	CB-CA-C	-5.78	101.81	110.88
1	kh	62	HIS	N-CA-C	5.78	119.61	111.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	20	LEU	O-C-N	5.78	128.74	122.15
1	lJ	87	HIS	CG-CD2-NE2	5.78	112.98	107.20
1	2d	32	PHE	CA-CB-CG	-5.78	108.02	113.80
1	2h	80	TRP	CE2-CD2-CE3	5.78	124.58	118.80
1	2o	137	GLY	N-CA-C	5.78	120.17	112.77
1	2t	199	LYS	N-CA-C	5.78	117.66	111.36
1	2P	204	ALA	N-CA-C	5.78	117.58	111.28
1	47	153	ILE	CA-C-O	5.78	127.41	120.65
1	4g	128	GLU	CB-CG-CD	5.78	122.42	112.60
1	4w	60	GLY	O-C-N	-5.78	115.19	122.70
1	4E	217	ALA	O-C-N	-5.78	116.20	122.79
1	4J	189	LEU	O-C-N	-5.78	114.41	121.92
1	4Q	55	MET	N-CA-CB	5.78	118.39	110.01
1	4U	170	LYS	CA-C-N	5.78	128.50	120.29
1	4U	170	LYS	C-N-CA	5.78	128.50	120.29
1	4U	181	VAL	O-C-N	-5.78	116.25	121.91
1	50	202	LEU	N-CA-C	5.78	117.58	111.28
1	5c	25	LYS	CB-CA-C	5.78	120.67	110.85
1	5H	120	HIS	CA-C-O	-5.78	115.51	121.87
1	5Z	185	MET	CA-C-O	-5.78	114.72	120.90
1	63	66	MET	N-CA-CB	5.78	119.12	110.22
1	6o	165	VAL	N-CA-CB	5.78	118.40	110.54
1	6r	74	ASN	CA-C-N	5.78	128.02	120.28
1	6r	74	ASN	C-N-CA	5.78	128.02	120.28
1	6z	169	TYR	CA-C-N	5.78	128.02	120.28
1	6z	169	TYR	C-N-CA	5.78	128.02	120.28
1	6L	141	ILE	CA-C-N	5.78	128.68	120.53
1	6L	141	ILE	C-N-CA	5.78	128.68	120.53
1	6N	26	VAL	N-CA-C	5.78	115.96	110.53
1	7e	132	ARG	O-C-N	-5.78	116.12	122.07
1	7g	77	ALA	O-C-N	5.78	128.25	122.12
1	7m	34	PRO	N-CA-C	5.78	121.35	113.84
1	7J	226	HIS	CB-CG-CD2	-5.78	123.69	131.20
1	7O	37	ILE	CA-C-N	5.78	125.15	118.85
1	7O	37	ILE	C-N-CA	5.78	125.15	118.85
1	7Y	116	GLY	N-CA-C	5.78	119.20	112.50
1	8g	42	ALA	N-CA-C	5.78	117.66	111.36
1	8v	130	TYR	N-CA-C	-5.78	105.72	112.89
1	91	27	VAL	N-CA-CB	5.78	119.25	110.58
1	9I	7	GLN	N-CA-C	-5.78	106.21	113.72
1	9T	195	ASN	N-CA-C	5.78	116.98	109.64
1	9W	144	MET	CB-CA-C	-5.78	101.20	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	10	MET	O-C-N	-5.78	115.92	122.86
1	aB	78	ALA	O-C-N	-5.78	115.56	122.15
1	b6	119	THR	CA-C-O	5.78	126.77	119.95
1	bd	103	ASP	CA-CB-CG	-5.78	106.82	112.60
1	bs	133	TRP	CB-CG-CD1	5.78	135.57	126.90
1	bH	75	GLU	N-CA-C	5.78	117.58	111.28
1	bO	4	GLN	CA-C-N	5.78	128.30	120.44
1	bO	4	GLN	C-N-CA	5.78	128.30	120.44
1	1d	64	ALA	CA-C-N	5.78	127.95	120.44
1	1d	64	ALA	C-N-CA	5.78	127.95	120.44
1	cl	109	SER	CA-C-O	5.78	127.22	120.80
1	cr	174	ALA	N-CA-C	5.78	118.05	111.11
1	da	162	ARG	N-CA-C	5.78	118.36	111.71
1	dd	195	ASN	CA-CB-CG	-5.78	106.82	112.60
1	do	169	TYR	CA-CB-CG	-5.78	103.50	113.90
1	dX	168	PHE	CA-CB-CG	5.78	119.58	113.80
1	ev	55	MET	N-CA-C	5.78	117.66	111.36
1	eQ	117	TRP	N-CA-C	5.78	118.32	111.33
1	fG	182	LYS	CA-C-N	5.78	128.02	120.28
1	fG	182	LYS	C-N-CA	5.78	128.02	120.28
1	fZ	96	MET	N-CA-C	5.78	118.86	110.42
1	g2	184	TRP	CA-C-O	-5.78	114.42	120.55
1	g7	72	THR	CA-C-N	5.78	129.60	120.47
1	g7	72	THR	C-N-CA	5.78	129.60	120.47
1	h	105	ALA	CA-C-O	5.78	126.32	119.56
1	y	78	ALA	N-CA-CB	5.78	119.20	110.30
1	gl	133	TRP	CA-C-N	5.78	127.84	120.56
1	gl	133	TRP	C-N-CA	5.78	127.84	120.56
1	gm	71	GLU	N-CA-C	5.78	117.58	111.28
1	gr	183	ASN	CA-C-N	5.78	130.50	120.68
1	gr	183	ASN	C-N-CA	5.78	130.50	120.68
1	gt	6	LEU	O-C-N	-5.78	114.91	122.59
1	gI	187	GLU	CA-C-O	5.78	128.77	120.51
1	gP	133	TRP	N-CA-CB	5.78	118.39	110.01
1	gY	172	LEU	O-C-N	-5.78	115.46	122.22
1	h3	134	ILE	CA-C-N	5.78	128.68	120.53
1	h3	134	ILE	C-N-CA	5.78	128.68	120.53
1	h4	62	HIS	CA-C-N	5.78	128.02	120.28
1	h4	62	HIS	C-N-CA	5.78	128.02	120.28
1	h9	201	ILE	CA-C-O	5.78	126.97	120.85
1	hh	111	LEU	O-C-N	-5.78	116.00	122.12
1	hi	32	PHE	N-CA-C	5.78	118.57	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hj	153	ILE	N-CA-CB	5.78	117.92	110.99
1	hn	55	MET	N-CA-C	5.78	118.32	111.33
1	hq	18	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
1	ht	37	ILE	N-CA-CB	5.78	114.14	110.50
1	1K	35	GLU	CA-C-N	5.78	130.12	120.64
1	1K	35	GLU	C-N-CA	5.78	130.12	120.64
1	hH	100	ARG	O-C-N	-5.78	115.04	122.20
1	hK	169	TYR	N-CA-CB	5.78	119.23	110.28
1	hR	214	MET	CA-C-O	5.78	126.89	120.82
1	i5	139	ASN	CA-C-N	5.78	127.95	120.44
1	i5	139	ASN	C-N-CA	5.78	127.95	120.44
1	ie	32	PHE	CB-CG-CD1	5.78	130.52	120.70
1	if	93	PRO	CB-CA-C	5.78	118.98	111.64
1	il	37	ILE	CA-CB-CG1	-5.78	100.58	110.40
1	io	214	MET	CA-C-N	5.78	128.30	120.38
1	io	214	MET	C-N-CA	5.78	128.30	120.38
1	iu	136	LEU	N-CA-C	5.78	117.25	111.07
1	iw	167	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	iM	195	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	iQ	156	GLY	O-C-N	-5.78	115.99	121.77
1	jz	150	ILE	N-CA-C	5.78	121.36	109.34
1	1X	27	VAL	O-C-N	-5.78	115.88	121.83
1	jH	176	GLN	CA-C-O	-5.78	112.44	119.32
1	jW	167	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	jZ	36	VAL	N-CA-C	5.78	118.27	111.05
1	kp	217	ALA	N-CA-C	5.78	117.52	110.41
1	kx	135	ILE	O-C-N	-5.78	115.88	121.83
1	kE	199	LYS	N-CA-CB	5.78	118.61	110.12
1	l2	48	THR	N-CA-CB	5.78	116.02	109.49
1	l6	171	THR	O-C-N	-5.78	115.16	122.27
1	lc	200	THR	N-CA-C	5.78	118.32	111.33
1	le	7	GLN	CA-C-O	5.78	126.49	119.38
1	lr	174	ALA	CA-C-N	5.78	128.50	120.29
1	lr	174	ALA	C-N-CA	5.78	128.50	120.29
1	lw	12	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	lM	58	THR	CA-CB-CG2	5.78	120.32	110.50
1	2f	180	GLU	CA-CB-CG	5.78	125.66	114.10
1	2g	82	ARG	NE-CZ-NH2	5.78	124.40	119.20
1	2g	89	GLY	O-C-N	-5.78	115.99	121.77
1	2h	103	ASP	N-CA-C	-5.78	105.33	112.90
1	2m	150	ILE	CB-CA-C	5.78	119.94	112.14
1	2u	67	GLN	N-CA-C	5.78	117.25	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2w	105	ALA	CA-C-N	5.78	133.83	121.18
1	2w	105	ALA	C-N-CA	5.78	133.83	121.18
1	2E	134	ILE	O-C-N	-5.78	113.91	121.82
1	2H	154	ARG	CD-NE-CZ	-5.78	116.31	124.40
1	2I	100	ARG	N-CA-C	-5.78	102.21	110.59
1	2J	114	GLN	CA-C-O	5.78	126.67	120.55
1	2Y	220	GLY	CA-C-N	5.78	130.30	122.90
1	2Y	220	GLY	C-N-CA	5.78	130.30	122.90
1	32	83	LEU	N-CA-CB	-5.78	101.63	110.01
1	34	195	ASN	O-C-N	-5.78	115.07	121.66
1	38	213	GLU	N-CA-C	5.78	117.66	111.36
1	3i	30	LYS	N-CA-C	5.78	122.77	114.39
1	3p	66	MET	CG-SD-CE	-5.78	88.19	100.90
1	3G	4	GLN	N-CA-CB	5.78	120.25	110.49
1	3G	159	GLU	O-C-N	-5.78	115.50	121.28
1	40	138	LEU	N-CA-C	5.78	117.58	111.28
1	46	161	PHE	O-C-N	-5.78	115.56	122.15
1	4m	175	GLU	CB-CA-C	5.78	118.91	109.90
1	4s	70	LYS	CG-CD-CE	5.78	124.59	111.30
1	4B	53	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	4H	72	THR	CA-C-N	5.78	128.05	120.60
1	4H	72	THR	C-N-CA	5.78	128.05	120.60
1	4U	32	PHE	CA-CB-CG	-5.78	108.02	113.80
1	59	58	THR	N-CA-C	5.78	117.58	111.28
1	5c	230	VAL	N-CA-C	-5.78	106.66	113.42
1	5k	47	ALA	CB-CA-C	5.78	119.39	109.51
1	5k	76	GLU	N-CA-C	5.78	118.52	111.82
1	5s	16	SER	N-CA-C	-5.78	102.14	110.40
1	5A	146	SER	O-C-N	-5.78	114.98	120.70
1	5F	9	GLN	CB-CG-CD	5.78	122.42	112.60
1	5Z	69	LEU	N-CA-C	5.78	118.32	111.33
1	61	37	ILE	CA-C-O	-5.78	114.82	118.69
1	64	120	HIS	N-CA-C	5.78	123.11	110.80
1	67	210	THR	CA-C-N	5.78	128.02	120.28
1	67	210	THR	C-N-CA	5.78	128.02	120.28
1	6g	184	TRP	N-CA-C	5.78	117.58	111.28
1	6l	99	PRO	N-CD-CG	5.78	111.87	103.20
1	6t	90	PRO	N-CA-C	5.78	120.40	111.21
1	6L	133	TRP	N-CA-C	5.78	117.25	111.07
1	6W	15	ILE	O-C-N	-5.78	116.13	122.83
1	6Z	210	THR	N-CA-C	5.78	118.00	110.43
1	72	73	ILE	N-CA-C	5.78	116.43	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	14	ALA	CA-C-O	5.78	127.68	121.44
1	77	187	GLU	CA-C-O	-5.78	114.75	120.70
1	7b	103	ASP	N-CA-C	-5.78	104.58	111.69
1	7f	54	THR	CB-CA-C	-5.78	101.81	110.88
1	7h	226	HIS	CA-CB-CG	5.78	119.58	113.80
1	7q	120	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	7C	32	PHE	CA-CB-CG	-5.78	108.02	113.80
1	7O	75	GLU	N-CA-CB	5.78	118.61	110.12
1	8u	155	GLN	N-CA-C	5.78	118.83	110.28
1	8G	212	GLU	N-CA-CB	-5.78	101.61	110.16
1	8P	35	GLU	N-CA-CB	5.78	119.04	110.49
1	8Q	219	GLN	N-CA-C	5.78	120.32	113.16
1	8V	105	ALA	CA-C-O	5.78	126.49	119.38
1	9f	189	LEU	O-C-N	-5.78	116.08	122.09
1	9x	179	GLN	CA-C-O	5.78	126.67	120.55
1	9A	168	PHE	O-C-N	-5.78	116.02	122.03
1	9H	152	ASP	CA-CB-CG	5.78	118.38	112.60
1	9I	102	SER	CA-C-N	5.78	128.50	120.29
1	9I	102	SER	C-N-CA	5.78	128.50	120.29
1	9Q	4	GLN	N-CA-C	5.78	123.11	110.80
1	9S	15	ILE	O-C-N	-5.78	116.02	122.66
1	9S	137	GLY	O-C-N	-5.78	116.59	122.19
1	9W	84	HIS	CG-CD2-NE2	5.78	112.98	107.20
1	a7	216	THR	N-CA-CB	5.78	119.33	110.61
1	aa	199	LYS	N-CA-CB	-5.78	101.63	110.12
1	ad	93	PRO	O-C-N	-5.78	114.84	122.64
1	al	63	GLN	N-CA-C	5.78	118.35	111.71
1	aH	173	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	aW	183	ASN	CA-C-N	5.78	128.02	120.28
1	aW	183	ASN	C-N-CA	5.78	128.02	120.28
1	bc	56	LEU	N-CA-C	5.78	117.58	111.28
1	bp	201	ILE	CA-CB-CG1	5.78	120.22	110.40
1	bq	131	LYS	CA-C-N	5.78	128.34	120.54
1	bq	131	LYS	C-N-CA	5.78	128.34	120.54
1	bG	170	LYS	O-C-N	-5.78	116.00	122.12
1	bO	54	THR	CA-C-N	5.78	128.02	120.28
1	bO	54	THR	C-N-CA	5.78	128.02	120.28
1	bR	115	ILE	N-CA-C	5.78	116.51	110.62
1	bS	11	VAL	N-CA-CB	5.78	120.76	111.23
1	bU	68	MET	CA-C-O	5.78	126.67	120.55
1	1b	19	THR	N-CA-CB	5.78	118.55	109.94
1	bZ	34	PRO	N-CA-C	-5.78	108.67	114.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c1	67	GLN	CA-C-N	5.78	128.02	120.28
1	c1	67	GLN	C-N-CA	5.78	128.02	120.28
1	c3	7	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	cm	99	PRO	CB-CA-C	5.78	118.98	111.64
1	cv	174	ALA	CA-C-O	5.78	126.41	119.59
1	cG	173	ARG	CA-C-O	5.78	126.49	119.38
1	cM	82	ARG	CA-C-O	-5.78	114.30	120.42
1	cP	120	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	d4	50	GLN	CA-C-N	5.78	128.02	120.28
1	d4	50	GLN	C-N-CA	5.78	128.02	120.28
1	dq	124	ILE	N-CA-C	-5.78	100.73	107.61
1	dr	190	LEU	O-C-N	-5.78	115.56	122.15
1	dz	165	VAL	CA-C-O	5.78	126.75	120.57
1	dH	92	GLU	CB-CA-C	-5.78	100.84	109.56
1	e7	37	ILE	N-CA-C	5.78	121.36	108.88
1	eb	145	TYR	CA-C-O	-5.78	113.57	120.10
1	ec	45	GLU	N-CA-C	5.78	118.63	109.96
1	eq	24	VAL	N-CA-C	5.78	116.51	110.62
1	eu	156	GLY	CA-C-N	5.78	125.25	119.24
1	eu	156	GLY	C-N-CA	5.78	125.25	119.24
1	ew	26	VAL	N-CA-CB	5.78	117.31	110.55
1	ff	87	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
1	fj	85	PRO	N-CA-C	5.78	124.37	112.47
1	fq	183	ASN	CA-C-N	5.78	127.95	120.44
1	fq	183	ASN	C-N-CA	5.78	127.95	120.44
1	fv	85	PRO	N-CD-CG	5.78	111.87	103.20
1	fC	3	VAL	CA-C-N	5.78	132.57	121.54
1	fC	3	VAL	C-N-CA	5.78	132.57	121.54
1	1y	135	ILE	CA-C-N	5.78	128.34	120.54
1	1y	135	ILE	C-N-CA	5.78	128.34	120.54
1	fL	175	GLU	CA-C-N	5.78	131.45	122.49
1	fL	175	GLU	C-N-CA	5.78	131.45	122.49
1	fQ	111	LEU	CA-C-O	-5.78	114.39	120.63
1	fR	25	LYS	CB-CG-CD	5.78	124.59	111.30
1	g5	226	HIS	ND1-CE1-NE2	5.78	114.18	108.40
1	1B	108	THR	CB-CA-C	-5.78	100.41	110.17
1	0	209	ALA	O-C-N	-5.78	116.19	123.01
1	a	142	VAL	N-CA-C	5.78	116.51	110.62
1	b	12	HIS	CG-CD2-NE2	5.78	112.98	107.20
1	b	130	TYR	CA-C-O	-5.78	114.43	120.55
1	2	50	GLN	CB-CA-C	-5.78	101.20	110.79
1	4	220	GLY	O-C-N	-5.78	115.69	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	16	SER	CA-C-N	5.78	125.46	119.05
1	S	16	SER	C-N-CA	5.78	125.46	119.05
1	gc	28	GLU	N-CA-CB	5.78	118.34	109.91
1	gg	229	ARG	N-CA-CB	5.78	120.25	110.49
1	gh	136	LEU	O-C-N	-5.78	116.12	122.07
1	gk	178	SER	O-C-N	-5.78	116.21	122.79
1	1D	84	HIS	CG-CD2-NE2	5.78	112.97	107.20
1	gt	90	PRO	N-CA-C	-5.78	104.68	112.48
1	gx	136	LEU	CA-C-N	5.78	126.39	119.98
1	gx	136	LEU	C-N-CA	5.78	126.39	119.98
1	gz	135	ILE	N-CA-C	5.78	116.51	110.62
1	gI	229	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
1	h3	110	THR	O-C-N	-5.78	116.21	122.79
1	1H	112	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	h8	113	GLU	O-C-N	-5.78	116.12	122.07
1	ho	55	MET	CA-C-N	5.78	128.02	120.28
1	ho	55	MET	C-N-CA	5.78	128.02	120.28
1	hQ	56	LEU	N-CA-C	5.78	117.58	111.28
1	if	101	GLY	O-C-N	-5.78	115.19	122.70
1	in	45	GLU	N-CA-CB	5.78	118.39	110.01
1	ir	182	LYS	N-CA-C	5.78	117.25	111.07
1	it	134	ILE	CA-C-N	5.78	128.37	120.46
1	it	134	ILE	C-N-CA	5.78	128.37	120.46
1	1R	137	GLY	CA-C-N	5.78	127.95	120.44
1	1R	137	GLY	C-N-CA	5.78	127.95	120.44
1	iT	164	TYR	CA-C-N	5.78	128.34	120.77
1	iT	164	TYR	C-N-CA	5.78	128.34	120.77
1	j5	82	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	jc	173	ARG	CG-CD-NE	-5.78	99.29	112.00
1	jt	128	GLU	N-CA-C	5.78	117.38	111.14
1	jO	217	ALA	N-CA-C	5.78	118.64	110.50
1	jS	40	PHE	CB-CG-CD2	5.78	130.52	120.70
1	jW	27	VAL	N-CA-C	5.78	116.51	110.62
1	1Z	122	PRO	N-CA-C	5.78	117.75	110.70
1	kd	100	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	kk	158	LYS	N-CA-C	-5.78	104.90	112.41
1	kq	133	TRP	CA-C-N	5.78	128.67	120.53
1	kq	133	TRP	C-N-CA	5.78	128.67	120.53
1	kC	215	MET	N-CA-C	5.78	118.52	111.82
1	l6	73	ILE	N-CA-CB	5.78	118.39	110.54
1	lb	195	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	lb	210	THR	O-C-N	-5.78	115.99	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lc	133	TRP	CA-CB-CG	5.78	124.57	113.60
1	lh	155	GLN	N-CA-CB	-5.78	100.87	110.23
1	lj	162	ARG	CA-C-N	5.78	128.34	120.54
1	lj	162	ARG	C-N-CA	5.78	128.34	120.54
1	lp	1	PRO	CB-CA-C	5.78	121.07	110.10
1	lr	131	LYS	CA-C-N	5.78	127.95	120.44
1	lr	131	LYS	C-N-CA	5.78	127.95	120.44
1	28	14	ALA	N-CA-C	5.78	117.78	110.33
1	lA	104	ILE	O-C-N	-5.78	116.23	121.89
1	2e	66	MET	CA-C-N	5.78	127.95	120.44
1	2e	66	MET	C-N-CA	5.78	127.95	120.44
1	2h	219	GLN	CG-CD-NE2	5.78	125.06	116.40
1	2j	87	HIS	CG-CD2-NE2	5.78	112.98	107.20
1	2o	173	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
1	2y	65	ALA	N-CA-C	5.78	117.58	111.28
1	2y	170	LYS	O-C-N	-5.78	116.00	122.12
1	2B	93	PRO	CB-CA-C	5.78	118.97	111.64
1	2E	21	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	2T	6	LEU	CA-C-N	5.78	129.47	120.75
1	2T	6	LEU	C-N-CA	5.78	129.47	120.75
1	2V	104	ILE	O-C-N	-5.78	116.27	121.87
1	38	21	ASN	CA-C-N	5.78	128.02	120.28
1	38	21	ASN	C-N-CA	5.78	128.02	120.28
1	38	24	VAL	N-CA-C	5.78	115.96	110.42
1	3c	160	PRO	O-C-N	-5.78	115.66	122.99
1	3q	136	LEU	CA-C-N	5.78	126.24	119.94
1	3q	136	LEU	C-N-CA	5.78	126.24	119.94
1	3s	178	SER	N-CA-C	5.78	118.64	110.50
1	3z	28	GLU	CA-C-O	5.78	126.27	119.28
1	3H	213	GLU	N-CA-C	-5.78	104.59	111.69
1	3I	180	GLU	CA-C-N	5.78	128.37	120.46
1	3I	180	GLU	C-N-CA	5.78	128.37	120.46
1	3Z	5	ASN	O-C-N	-5.78	116.28	123.04
1	42	50	GLN	O-C-N	-5.78	115.17	122.27
1	44	210	THR	CA-C-O	5.78	127.86	121.56
1	45	76	GLU	O-C-N	-5.78	116.00	122.12
1	4d	26	VAL	CA-C-O	5.78	126.71	120.47
1	4h	79	GLU	CA-C-O	5.78	126.54	120.42
1	4k	159	GLU	CA-C-O	-5.78	113.77	119.49
1	4D	113	GLU	CA-C-N	5.78	127.95	120.44
1	4D	113	GLU	C-N-CA	5.78	127.95	120.44
1	4H	142	VAL	CA-CB-CG1	5.78	120.22	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Z	88	ALA	N-CA-CB	5.78	118.18	109.34
1	53	33	SER	O-C-N	-5.78	115.67	121.27
1	54	5	ASN	OD1-CG-ND2	-5.78	116.82	122.60
1	5e	12	HIS	CB-CA-C	-5.78	100.00	109.53
1	5i	203	LYS	CA-C-N	5.78	128.02	120.28
1	5i	203	LYS	C-N-CA	5.78	128.02	120.28
1	5v	191	VAL	CA-C-N	-5.78	113.85	122.74
1	5v	191	VAL	C-N-CA	-5.78	113.85	122.74
1	5P	12	HIS	ND1-CE1-NE2	5.78	114.17	108.40
1	5T	121	ASN	CB-CG-OD1	5.78	132.35	120.80
1	67	185	MET	CG-SD-CE	-5.78	88.20	100.90
1	67	195	ASN	CA-CB-CG	-5.78	106.82	112.60
1	6a	76	GLU	CA-C-O	-5.78	114.30	120.42
1	6a	156	GLY	O-C-N	-5.78	117.22	122.42
1	6b	159	GLU	O-C-N	-5.78	115.18	121.53
1	6d	192	GLN	OE1-CD-NE2	-5.78	116.83	122.60
1	6e	81	ASP	N-CA-C	5.78	117.66	111.36
1	6u	66	MET	CA-C-O	5.78	126.67	120.55
1	6y	190	LEU	O-C-N	5.78	128.26	122.08
1	6B	104	ILE	CA-C-N	5.78	130.37	120.72
1	6B	104	ILE	C-N-CA	5.78	130.37	120.72
1	6P	107	THR	N-CA-CB	5.78	118.90	110.47
1	71	18	ARG	N-CA-CB	5.78	118.61	110.12
1	73	38	PRO	CA-C-N	5.78	128.30	120.44
1	73	38	PRO	C-N-CA	5.78	128.30	120.44
1	7g	173	ARG	CA-CB-CG	-5.78	102.55	114.10
1	7r	44	SER	N-CA-C	-5.78	105.81	112.92
1	7x	131	LYS	N-CA-CB	-5.78	101.63	110.12
1	7W	78	ALA	CA-C-O	5.78	126.54	120.42
1	81	98	GLU	CA-C-N	5.78	127.06	119.84
1	81	98	GLU	C-N-CA	5.78	127.06	119.84
1	87	70	LYS	N-CA-C	5.78	117.58	111.28
1	89	18	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	8c	107	THR	N-CA-C	5.78	117.58	111.28
1	8C	121	ASN	CA-C-O	-5.78	113.54	119.49
1	8D	56	LEU	CA-C-N	5.78	130.37	120.72
1	8D	56	LEU	C-N-CA	5.78	130.37	120.72
1	8D	164	TYR	CB-CG-CD2	-5.78	112.14	120.80
1	8N	32	PHE	CA-C-N	5.78	130.43	122.06
1	8N	32	PHE	C-N-CA	5.78	130.43	122.06
1	8O	229	ARG	O-C-N	-5.78	116.19	123.01
1	8Q	185	MET	N-CA-C	5.78	117.25	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	91	186	THR	CA-C-N	5.78	129.09	120.31
1	91	186	THR	C-N-CA	5.78	129.09	120.31
1	9i	77	ALA	CA-C-N	5.78	128.49	120.29
1	9i	77	ALA	C-N-CA	5.78	128.49	120.29
1	9x	135	ILE	CA-C-N	5.78	128.29	120.38
1	9x	135	ILE	C-N-CA	5.78	128.29	120.38
1	9H	226	HIS	CG-CD2-NE2	5.78	112.97	107.20
1	a0	115	ILE	N-CA-C	5.78	116.42	110.36
1	a7	36	VAL	CA-C-O	5.78	126.57	119.58
1	aa	10	MET	N-CA-C	5.78	119.36	111.39
1	aj	17	PRO	CA-C-N	5.78	128.34	120.54
1	aj	17	PRO	C-N-CA	5.78	128.34	120.54
1	aq	9	GLN	OE1-CD-NE2	-5.78	116.82	122.60
1	as	53	ASN	O-C-N	-5.78	116.00	122.12
1	as	173	ARG	N-CA-C	5.78	117.66	111.36
1	ay	13	GLN	CA-C-O	5.78	126.73	120.32
1	aE	62	HIS	CA-CB-CG	-5.78	108.02	113.80
1	14	169	TYR	N-CA-CB	5.78	118.61	110.12
1	b8	38	PRO	CA-C-N	5.78	127.95	120.44
1	b8	38	PRO	C-N-CA	5.78	127.95	120.44
1	ba	87	HIS	CB-CG-CD2	-5.78	123.69	131.20
1	be	16	SER	CB-CA-C	-5.78	100.73	108.87
1	bf	7	GLN	O-C-N	-5.78	115.89	123.28
1	bq	104	ILE	O-C-N	-5.78	116.04	121.87
1	19	193	ASN	CA-CB-CG	-5.78	106.82	112.60
1	bK	82	ARG	N-CA-C	5.78	117.65	111.36
1	bS	32	PHE	CA-C-O	5.78	126.48	119.78
1	ca	143	ARG	CA-C-N	5.78	127.95	120.44
1	ca	143	ARG	C-N-CA	5.78	127.95	120.44
1	cS	58	THR	CA-C-O	-5.78	112.31	119.18
1	cW	185	MET	CA-C-O	5.78	126.67	120.55
1	cZ	52	LEU	O-C-N	-5.78	116.08	122.09
1	1i	113	GLU	CA-C-O	5.78	126.89	120.82
1	d9	16	SER	CA-C-N	5.78	125.39	119.56
1	d9	16	SER	C-N-CA	5.78	125.39	119.56
1	ds	130	TYR	N-CA-C	5.78	117.25	111.07
1	dt	90	PRO	N-CA-C	5.78	120.27	111.15
1	dD	59	VAL	N-CA-C	5.78	115.86	108.12
1	dL	223	GLY	CA-C-N	5.78	127.06	119.84
1	dL	223	GLY	C-N-CA	5.78	127.06	119.84
1	e6	73	ILE	N-CA-C	5.78	116.42	110.36
1	ea	182	LYS	CA-C-N	5.78	128.02	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ea	182	LYS	C-N-CA	5.78	128.02	120.28
1	ej	120	HIS	CA-CB-CG	5.78	119.58	113.80
1	ez	89	GLY	CA-C-N	5.78	125.79	119.90
1	ez	89	GLY	C-N-CA	5.78	125.79	119.90
1	eB	95	GLN	CG-CD-NE2	5.78	125.06	116.40
1	eK	64	ALA	N-CA-C	5.78	118.04	111.11
1	eR	224	PRO	N-CA-C	5.78	119.52	110.80
1	eX	156	GLY	CA-C-N	5.78	125.15	118.85
1	eX	156	GLY	C-N-CA	5.78	125.15	118.85
1	f0	223	GLY	CA-C-N	5.78	125.31	119.19
1	f0	223	GLY	C-N-CA	5.78	125.31	119.19
1	f5	177	ALA	O-C-N	-5.78	115.77	122.87
1	fj	202	LEU	O-C-N	5.78	128.98	122.22
1	fs	66	MET	O-C-N	-5.78	116.00	122.12
1	fJ	112	GLN	CA-CB-CG	5.78	125.65	114.10
1	fO	181	VAL	N-CA-C	-5.78	104.70	111.00
1	fP	190	LEU	O-C-N	5.78	128.33	122.09
1	fW	206	GLY	CA-C-N	5.78	125.78	119.89
1	fW	206	GLY	C-N-CA	5.78	125.78	119.89
1	g0	10	MET	CA-C-O	5.78	127.28	120.69
1	g1	148	THR	N-CA-C	-5.78	99.95	108.79
1	e	10	MET	N-CA-CB	5.78	120.69	111.91
1	m	207	PRO	N-CA-C	5.78	124.37	112.47
1	q	35	GLU	CA-C-N	5.78	128.37	120.46
1	q	35	GLU	C-N-CA	5.78	128.37	120.46
1	r	164	TYR	O-C-N	-5.78	116.00	122.12
1	y	87	HIS	CA-C-N	5.78	131.26	122.08
1	y	87	HIS	C-N-CA	5.78	131.26	122.08
1	K	164	TYR	N-CA-C	5.78	117.25	111.07
1	N	184	TRP	CA-C-O	5.78	126.67	120.55
1	R	229	ARG	O-C-N	5.78	129.60	123.42
1	T	86	VAL	CA-CB-CG2	5.78	120.22	110.40
1	gM	48	THR	CA-C-N	5.77	125.90	119.32
1	gM	48	THR	C-N-CA	5.77	125.90	119.32
1	gR	52	LEU	CA-C-O	5.77	126.54	120.42
1	h2	51	ASP	CA-C-N	5.77	128.33	120.54
1	h2	51	ASP	C-N-CA	5.77	128.33	120.54
1	he	143	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	hy	52	LEU	CA-C-O	5.77	126.67	120.55
1	hG	50	GLN	CA-C-N	5.77	128.49	120.29
1	hG	50	GLN	C-N-CA	5.77	128.49	120.29
1	ii	103	ASP	CA-CB-CG	5.77	118.37	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	io	23	TRP	CD2-CE2-CZ2	-5.77	116.63	122.40
1	iF	68	MET	N-CA-CB	5.77	118.61	110.12
1	iS	27	VAL	CA-C-N	5.77	128.02	120.28
1	iS	27	VAL	C-N-CA	5.77	128.02	120.28
1	jc	20	LEU	CA-C-N	5.77	128.02	120.28
1	jc	20	LEU	C-N-CA	5.77	128.02	120.28
1	jv	100	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	jD	168	PHE	N-CA-CB	-5.77	101.64	110.01
1	k1	54	THR	CA-C-O	5.77	126.67	120.55
1	k5	113	GLU	CB-CA-C	-5.77	101.03	110.85
1	ki	173	ARG	CD-NE-CZ	5.77	132.48	124.40
1	kx	176	GLN	N-CA-C	5.77	118.38	110.24
1	kx	226	HIS	N-CA-CB	5.77	119.23	110.45
1	23	143	ARG	NH1-CZ-NH2	-5.77	111.79	119.30
1	l7	137	GLY	N-CA-C	-5.77	105.50	112.49
1	lI	70	LYS	N-CA-C	5.77	119.50	112.23
1	lQ	73	ILE	N-CA-C	5.77	116.51	110.62
1	2l	213	GLU	CA-C-N	5.77	128.29	120.44
1	2l	213	GLU	C-N-CA	5.77	128.29	120.44
1	2s	106	GLY	CA-C-O	5.77	125.42	119.01
1	2v	74	ASN	CA-C-N	5.77	128.49	120.29
1	2v	74	ASN	C-N-CA	5.77	128.49	120.29
1	2v	165	VAL	CA-C-N	5.77	128.27	120.65
1	2v	165	VAL	C-N-CA	5.77	128.27	120.65
1	2z	116	GLY	O-C-N	-5.77	116.59	122.19
1	2A	141	ILE	CA-C-N	5.77	128.05	120.60
1	2A	141	ILE	C-N-CA	5.77	128.05	120.60
1	2E	144	MET	N-CA-C	5.77	118.04	111.11
1	34	181	VAL	CA-C-N	5.77	128.29	120.38
1	34	181	VAL	C-N-CA	5.77	128.29	120.38
1	3H	223	GLY	O-C-N	-5.77	116.00	121.77
1	4n	196	PRO	N-CA-C	5.77	121.44	113.65
1	4t	170	LYS	CA-C-O	5.77	126.67	120.55
1	4F	215	MET	O-C-N	-5.77	116.00	122.12
1	56	215	MET	CA-C-N	5.77	127.95	120.44
1	56	215	MET	C-N-CA	5.77	127.95	120.44
1	59	110	THR	CA-C-N	5.77	128.29	120.38
1	59	110	THR	C-N-CA	5.77	128.29	120.38
1	5u	12	HIS	O-C-N	5.77	130.07	123.31
1	5J	113	GLU	N-CA-C	-5.77	104.95	112.23
1	5O	72	THR	CA-C-O	-5.77	114.76	120.82
1	5X	87	HIS	CA-C-N	5.77	128.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	87	HIS	C-N-CA	5.77	128.59	120.28
1	69	167	ARG	CD-NE-CZ	5.77	132.48	124.40
1	6d	31	ALA	N-CA-C	5.77	118.72	109.02
1	6D	105	ALA	CA-C-N	5.77	132.73	121.41
1	6D	105	ALA	C-N-CA	5.77	132.73	121.41
1	6T	168	PHE	CA-C-N	5.77	128.02	120.28
1	6T	168	PHE	C-N-CA	5.77	128.02	120.28
1	7h	230	VAL	CA-CB-CG1	5.77	120.22	110.40
1	7M	167	ARG	NE-CZ-NH2	-5.77	114.00	119.20
1	7V	67	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	85	209	ALA	N-CA-C	5.77	118.64	110.50
1	8l	210	THR	N-CA-CB	5.77	118.62	110.36
1	95	120	HIS	CA-CB-CG	5.77	119.57	113.80
1	9j	164	TYR	N-CA-C	5.77	118.52	111.82
1	9l	218	CYS	O-C-N	-5.77	115.93	122.86
1	9y	96	MET	CA-C-N	5.77	129.04	120.90
1	9y	96	MET	C-N-CA	5.77	129.04	120.90
1	9G	136	LEU	N-CA-C	5.77	117.57	111.28
1	9N	75	GLU	N-CA-C	5.77	117.57	111.28
1	9Y	62	HIS	CB-CA-C	-5.77	104.12	111.86
1	ae	81	ASP	N-CA-C	5.77	118.04	111.11
1	aO	137	GLY	O-C-N	-5.77	116.41	122.13
1	15	39	MET	CA-C-N	5.77	128.82	120.79
1	15	39	MET	C-N-CA	5.77	128.82	120.79
1	b4	203	LYS	CA-C-N	5.77	127.95	120.44
1	b4	203	LYS	C-N-CA	5.77	127.95	120.44
1	bf	60	GLY	O-C-N	-5.77	115.19	122.70
1	bA	105	ALA	O-C-N	-5.77	114.49	122.46
1	19	23	TRP	CD2-CE2-CZ2	5.77	128.17	122.40
1	bU	133	TRP	CB-CG-CD2	-5.77	118.72	126.80
1	ck	167	ARG	CA-C-O	-5.77	112.25	120.51
1	cO	42	ALA	O-C-N	-5.77	116.00	122.12
1	cO	168	PHE	O-C-N	-5.77	116.03	122.03
1	cQ	139	ASN	CA-CB-CG	5.77	118.37	112.60
1	cX	165	VAL	CA-C-O	5.77	126.97	120.85
1	d7	129	ILE	N-CA-CB	5.77	117.31	110.55
1	dr	197	ASP	CA-C-O	5.77	126.67	120.55
1	dt	196	PRO	CA-C-N	5.77	128.34	120.54
1	dt	196	PRO	C-N-CA	5.77	128.34	120.54
1	dy	142	VAL	O-C-N	-5.77	115.88	121.83
1	dX	59	VAL	N-CA-CB	5.77	117.58	111.00
1	ee	86	VAL	CB-CA-C	5.77	117.95	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	39	MET	O-C-N	-5.77	116.00	122.12
1	x	21	ASN	CA-C-O	5.77	126.67	120.55
1	ga	155	GLN	O-C-N	-5.77	115.33	123.01
1	1D	226	HIS	N-CA-CB	5.77	119.84	110.43
1	gu	228	ALA	N-CA-CB	5.77	118.35	109.98
1	gT	32	PHE	N-CA-C	-5.77	104.95	113.61
1	h2	104	ILE	N-CA-CB	5.77	117.30	110.55
1	h2	196	PRO	CA-C-N	5.77	127.94	120.44
1	h2	196	PRO	C-N-CA	5.77	127.94	120.44
1	h6	181	VAL	O-C-N	-5.77	115.90	121.90
1	hd	81	ASP	O-C-N	-5.77	114.60	122.33
1	hf	101	GLY	CA-C-N	5.77	127.94	120.44
1	hf	101	GLY	C-N-CA	5.77	127.94	120.44
1	hf	104	ILE	CA-C-O	-5.77	115.27	121.27
1	hn	183	ASN	N-CA-CB	5.77	118.38	110.01
1	hp	106	GLY	CA-C-N	5.77	130.49	120.68
1	hp	106	GLY	C-N-CA	5.77	130.49	120.68
1	hL	84	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	hQ	125	PRO	N-CA-CB	5.77	106.68	102.81
1	hR	51	ASP	N-CA-C	5.77	117.57	111.28
1	hR	80	TRP	CG-CD2-CE3	5.77	139.67	133.90
1	hT	199	LYS	CA-C-N	5.77	128.29	120.38
1	hT	199	LYS	C-N-CA	5.77	128.29	120.38
1	hW	4	GLN	O-C-N	-5.77	114.91	122.59
1	hZ	185	MET	N-CA-C	5.77	117.57	111.28
1	i2	10	MET	N-CA-C	5.77	118.20	110.35
1	i5	162	ARG	N-CA-C	5.77	117.57	111.28
1	ic	76	GLU	CA-C-N	5.77	128.02	120.28
1	ic	76	GLU	C-N-CA	5.77	128.02	120.28
1	1P	150	ILE	O-C-N	-5.77	115.42	122.12
1	iv	84	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	1Q	132	ARG	O-C-N	5.77	128.09	122.09
1	iE	85	PRO	N-CD-CG	5.77	111.86	103.20
1	iF	63	GLN	N-CA-C	5.77	118.52	111.82
1	iX	194	ALA	N-CA-C	5.77	117.51	110.41
1	iZ	159	GLU	CB-CA-C	5.77	117.44	108.61
1	jb	73	ILE	CA-C-N	5.77	128.02	120.28
1	jb	73	ILE	C-N-CA	5.77	128.02	120.28
1	jc	189	LEU	CA-C-N	5.77	128.81	120.38
1	jc	189	LEU	C-N-CA	5.77	128.81	120.38
1	je	27	VAL	CA-C-N	5.77	128.01	120.28
1	je	27	VAL	C-N-CA	5.77	128.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jH	212	GLU	N-CA-C	5.77	117.57	111.28
1	jI	132	ARG	N-CA-CB	5.77	118.38	110.01
1	1Z	15	ILE	N-CA-C	5.77	121.35	109.34
1	kv	82	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	kH	166	ASP	CA-C-N	5.77	127.94	120.44
1	kH	166	ASP	C-N-CA	5.77	127.94	120.44
1	l5	163	ASP	N-CA-C	-5.77	105.34	112.90
1	lB	87	HIS	CA-CB-CG	-5.77	108.03	113.80
1	lI	21	ASN	N-CA-C	5.77	117.57	111.28
1	lM	125	PRO	CA-C-N	5.77	128.05	120.60
1	lM	125	PRO	C-N-CA	5.77	128.05	120.60
1	2c	226	HIS	CB-CG-ND1	5.77	131.36	122.70
1	2h	186	THR	CA-CB-OG1	-5.77	100.94	109.60
1	2j	125	PRO	CA-C-O	-5.77	116.94	121.38
1	2p	173	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	2V	114	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	3f	66	MET	N-CA-CB	5.77	118.38	110.01
1	3k	70	LYS	N-CA-CB	5.77	118.70	110.16
1	3p	202	LEU	CA-C-O	-5.77	114.30	120.42
1	3r	216	THR	CA-C-O	5.77	125.40	119.05
1	3v	111	LEU	O-C-N	-5.77	116.12	122.07
1	3x	162	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	3K	33	SER	O-C-N	-5.77	114.97	121.43
1	3R	185	MET	CG-SD-CE	-5.77	88.20	100.90
1	3W	144	MET	CG-SD-CE	-5.77	88.20	100.90
1	45	142	VAL	CA-C-N	5.77	128.49	120.29
1	45	142	VAL	C-N-CA	5.77	128.49	120.29
1	49	16	SER	O-C-N	-5.77	115.18	121.53
1	4f	136	LEU	N-CA-C	5.77	118.31	111.33
1	4q	21	ASN	CA-CB-CG	5.77	118.37	112.60
1	4w	20	LEU	CA-C-N	5.77	128.49	120.29
1	4w	20	LEU	C-N-CA	5.77	128.49	120.29
1	4A	63	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	4N	120	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	4V	146	SER	CA-C-O	-5.77	115.02	119.46
1	51	41	SER	N-CA-CB	5.77	118.60	110.12
1	5h	187	GLU	O-C-N	-5.77	115.57	122.15
1	5m	149	SER	N-CA-CB	5.77	119.06	110.29
1	5v	155	GLN	OE1-CD-NE2	5.77	128.37	122.60
1	5L	204	ALA	N-CA-CB	-5.77	101.61	110.44
1	5W	212	GLU	N-CA-CB	5.77	118.38	110.01
1	5Y	117	TRP	CB-CG-CD2	5.77	134.88	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	65	127	GLY	CA-C-O	5.77	127.36	120.90
1	6l	106	GLY	CA-C-N	5.77	128.33	120.54
1	6l	106	GLY	C-N-CA	5.77	128.33	120.54
1	6o	29	GLU	N-CA-C	5.77	117.65	111.36
1	6t	56	LEU	N-CA-CB	5.77	118.61	110.12
1	6w	66	MET	N-CA-C	5.77	117.57	111.28
1	6C	93	PRO	N-CA-CB	5.77	109.31	103.25
1	6I	13	GLN	CA-C-N	5.77	129.47	120.75
1	6I	13	GLN	C-N-CA	5.77	129.47	120.75
1	72	22	ALA	N-CA-CB	-5.77	101.62	110.16
1	74	75	GLU	CA-C-N	5.77	127.94	120.44
1	74	75	GLU	C-N-CA	5.77	127.94	120.44
1	7s	143	ARG	O-C-N	-5.77	115.57	122.15
1	7B	195	ASN	O-C-N	-5.77	115.18	121.53
1	8f	137	GLY	CA-C-N	5.77	128.49	120.29
1	8f	137	GLY	C-N-CA	5.77	128.49	120.29
1	8g	149	SER	CA-C-O	-5.77	115.27	121.45
1	8h	70	LYS	CA-C-N	5.77	128.01	120.28
1	8h	70	LYS	C-N-CA	5.77	128.01	120.28
1	8F	229	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	8Q	133	TRP	CG-CD1-NE1	-5.77	102.70	110.20
1	8R	228	ALA	CA-C-N	5.77	131.13	123.05
1	8R	228	ALA	C-N-CA	5.77	131.13	123.05
1	95	157	PRO	CA-C-N	5.77	131.29	122.29
1	95	157	PRO	C-N-CA	5.77	131.29	122.29
1	9v	118	MET	N-CA-CB	5.77	119.11	110.22
1	9X	217	ALA	N-CA-C	5.77	123.09	110.80
1	ac	201	ILE	N-CA-C	5.77	115.96	110.42
1	ah	15	ILE	CA-CB-CG2	-5.77	100.69	110.50
1	aj	177	ALA	CA-C-N	5.77	129.91	121.31
1	aj	177	ALA	C-N-CA	5.77	129.91	121.31
1	at	135	ILE	CA-C-N	5.77	129.09	120.31
1	at	135	ILE	C-N-CA	5.77	129.09	120.31
1	aA	16	SER	CA-C-N	5.77	125.47	119.64
1	aA	16	SER	C-N-CA	5.77	125.47	119.64
1	aE	221	VAL	CB-CA-C	-5.77	106.80	111.71
1	aO	204	ALA	CA-C-N	5.77	128.01	120.28
1	aO	204	ALA	C-N-CA	5.77	128.01	120.28
1	aY	199	LYS	CG-CD-CE	5.77	124.58	111.30
1	b2	214	MET	N-CA-C	5.77	118.35	111.71
1	b7	44	SER	CA-C-O	5.77	126.29	119.48
1	be	98	GLU	O-C-N	-5.77	114.96	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bi	214	MET	N-CA-C	5.77	117.25	111.07
1	bq	148	THR	N-CA-CB	5.77	118.55	109.83
1	bs	199	LYS	O-C-N	-5.77	116.00	122.12
1	bw	169	TYR	CA-C-O	5.77	126.67	120.55
1	bA	44	SER	N-CA-C	5.77	120.19	113.20
1	bO	25	LYS	O-C-N	-5.77	116.00	122.12
1	bQ	132	ARG	O-C-N	-5.77	116.12	122.07
1	c5	32	PHE	CA-CB-CG	-5.77	108.03	113.80
1	ck	229	ARG	N-CA-CB	5.77	118.48	110.17
1	cm	83	LEU	N-CA-C	5.77	117.25	111.07
1	cp	197	ASP	CA-CB-CG	5.77	118.37	112.60
1	1e	185	MET	N-CA-CB	5.77	118.61	110.12
1	cw	1	PRO	CA-C-N	5.77	130.96	122.94
1	cw	1	PRO	C-N-CA	5.77	130.96	122.94
1	cy	48	THR	CA-C-N	5.77	127.06	119.84
1	cy	48	THR	C-N-CA	5.77	127.06	119.84
1	cE	87	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	cG	87	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	cO	195	ASN	O-C-N	-5.77	114.96	121.43
1	cP	194	ALA	O-C-N	-5.77	115.71	122.81
1	cY	195	ASN	CA-C-O	-5.77	112.25	120.16
1	ds	112	GLN	CA-C-N	5.77	128.02	120.28
1	ds	112	GLN	C-N-CA	5.77	128.02	120.28
1	dt	195	ASN	CA-C-O	-5.77	114.86	119.71
1	du	12	HIS	CB-CG-ND1	-5.77	114.04	122.70
1	du	46	GLY	CA-C-O	5.77	126.40	119.82
1	1l	164	TYR	O-C-N	-5.77	115.90	122.08
1	dA	37	ILE	CA-C-N	5.77	125.14	118.85
1	dA	37	ILE	C-N-CA	5.77	125.14	118.85
1	dM	124	ILE	N-CA-CB	5.77	118.33	111.23
1	dM	221	VAL	N-CA-CB	5.77	119.49	112.10
1	dO	62	HIS	N-CA-C	5.77	119.36	111.39
1	dW	168	PHE	CA-CB-CG	5.77	119.57	113.80
1	e3	198	CYS	N-CA-C	-5.77	106.07	113.23
1	e5	4	GLN	N-CA-C	5.77	118.43	110.35
1	e8	63	GLN	N-CA-C	5.77	118.04	111.11
1	ek	42	ALA	CA-C-O	5.77	126.54	120.42
1	el	149	SER	CA-C-O	5.77	125.99	119.18
1	eq	39	MET	CG-SD-CE	-5.77	88.20	100.90
1	eq	89	GLY	CA-C-N	5.77	127.06	119.84
1	eq	89	GLY	C-N-CA	5.77	127.06	119.84
1	eq	144	MET	N-CA-CB	-5.77	100.71	110.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	et	45	GLU	N-CA-CB	5.77	118.63	109.51
1	ev	62	HIS	CB-CG-CD2	-5.77	123.70	131.20
1	eD	24	VAL	CB-CA-C	5.77	119.27	111.88
1	eM	203	LYS	N-CA-CB	-5.77	101.62	110.16
1	eS	226	HIS	N-CA-C	5.77	123.10	110.80
1	f2	4	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	f4	212	GLU	CA-C-O	-5.77	114.76	120.82
1	fb	22	ALA	O-C-N	-5.77	114.49	122.46
1	fx	114	GLN	CA-C-N	5.77	128.37	120.46
1	fx	114	GLN	C-N-CA	5.77	128.37	120.46
1	fS	91	ILE	CA-C-N	5.77	131.16	121.92
1	fS	91	ILE	C-N-CA	5.77	131.16	121.92
1	l	117	TRP	CD2-CE2-CZ2	5.77	128.17	122.40
1	X	173	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	7	111	LEU	N-CA-CB	-5.77	101.33	110.28
1	gb	187	GLU	O-C-N	-5.77	115.68	122.32
1	gp	79	GLU	CA-C-N	5.77	128.49	120.29
1	gp	79	GLU	C-N-CA	5.77	128.49	120.29
1	gK	177	ALA	O-C-N	-5.77	114.91	122.59
1	ho	103	ASP	CA-CB-CG	-5.77	106.83	112.60
1	hr	128	GLU	CA-C-O	5.77	126.54	120.42
1	hE	9	GLN	CB-CG-CD	5.77	122.41	112.60
1	iv	102	SER	N-CA-C	-5.77	106.24	113.28
1	iB	209	ALA	CA-C-O	5.77	127.67	121.55
1	iH	84	HIS	CB-CG-CD2	5.77	138.70	131.20
1	iY	159	GLU	CA-C-O	-5.77	113.85	119.51
1	j6	116	GLY	O-C-N	-5.77	116.65	122.19
1	jh	171	THR	N-CA-C	5.77	118.03	111.11
1	jF	30	LYS	N-CA-C	5.77	119.91	112.41
1	jR	4	GLN	CB-CG-CD	5.77	122.41	112.60
1	jX	76	GLU	N-CA-C	5.77	117.57	111.28
1	kn	169	TYR	O-C-N	-5.77	116.13	122.07
1	kH	84	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	kH	223	GLY	CA-C-N	5.77	127.05	119.84
1	kH	223	GLY	C-N-CA	5.77	127.05	119.84
1	kN	168	PHE	CA-C-N	5.77	128.01	120.28
1	kN	168	PHE	C-N-CA	5.77	128.01	120.28
1	kY	156	GLY	O-C-N	-5.77	116.00	121.77
1	l0	111	LEU	CB-CA-C	5.77	120.32	110.74
1	l8	139	ASN	CA-C-N	5.77	128.01	120.28
1	l8	139	ASN	C-N-CA	5.77	128.01	120.28
1	ll	84	HIS	CA-C-N	5.77	127.05	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	84	HIS	C-N-CA	5.77	127.05	119.84
1	ln	183	ASN	N-CA-C	5.77	117.25	111.07
1	2u	65	ALA	O-C-N	-5.77	116.09	122.09
1	2T	100	ARG	O-C-N	-5.77	115.55	122.65
1	3h	174	ALA	CA-C-N	5.77	128.01	120.28
1	3h	174	ALA	C-N-CA	5.77	128.01	120.28
1	3h	215	MET	CG-SD-CE	-5.77	88.20	100.90
1	3m	81	ASP	CA-CB-CG	5.77	118.37	112.60
1	3q	148	THR	N-CA-CB	5.77	120.24	110.49
1	3z	143	ARG	N-CA-CB	-5.77	101.64	110.12
1	3B	143	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	3D	163	ASP	CA-C-N	5.77	127.94	120.44
1	3D	163	ASP	C-N-CA	5.77	127.94	120.44
1	3X	48	THR	CA-C-N	5.77	125.90	119.32
1	3X	48	THR	C-N-CA	5.77	125.90	119.32
1	4k	83	LEU	N-CA-C	5.77	117.24	111.07
1	4r	141	ILE	N-CA-C	5.77	115.96	110.42
1	50	52	LEU	O-C-N	-5.77	116.12	122.07
1	5e	12	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	5h	221	VAL	O-C-N	-5.77	115.36	122.57
1	5l	93	PRO	CA-C-N	5.77	131.07	122.64
1	5l	93	PRO	C-N-CA	5.77	131.07	122.64
1	5L	142	VAL	N-CA-CB	5.77	118.39	110.54
1	5M	12	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	70	102	SER	N-CA-C	5.77	117.57	111.28
1	7j	187	GLU	N-CA-C	5.77	117.25	111.07
1	7D	16	SER	CA-C-N	5.77	127.05	119.84
1	7D	16	SER	C-N-CA	5.77	127.05	119.84
1	7I	173	ARG	NE-CZ-NH1	-5.77	115.73	121.50
1	7X	117	TRP	CZ3-CH2-CZ2	-5.77	114.00	121.50
1	8P	10	MET	CG-SD-CE	-5.77	88.20	100.90
1	9g	205	LEU	CA-C-N	5.77	130.93	121.87
1	9g	205	LEU	C-N-CA	5.77	130.93	121.87
1	9E	189	LEU	CA-C-N	5.77	127.94	120.44
1	9E	189	LEU	C-N-CA	5.77	127.94	120.44
1	aw	120	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	aI	50	GLN	CA-C-N	5.77	127.94	120.44
1	aI	50	GLN	C-N-CA	5.77	127.94	120.44
1	aO	192	GLN	CB-CA-C	-5.77	101.21	110.79
1	aS	167	ARG	CA-C-N	5.77	128.81	120.79
1	aS	167	ARG	C-N-CA	5.77	128.81	120.79
1	15	116	GLY	N-CA-C	5.77	119.87	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	220	GLY	CA-C-N	5.77	129.88	121.80
1	17	220	GLY	C-N-CA	5.77	129.88	121.80
1	bn	228	ALA	CA-C-N	5.77	130.74	122.08
1	bn	228	ALA	C-N-CA	5.77	130.74	122.08
1	cX	144	MET	CG-SD-CE	-5.77	88.20	100.90
1	d0	167	ARG	O-C-N	5.77	128.01	122.07
1	do	196	PRO	N-CA-C	5.77	121.07	113.86
1	dC	50	GLN	N-CA-C	5.77	117.25	111.07
1	dG	190	LEU	N-CA-C	5.77	118.03	111.11
1	dL	217	ALA	N-CA-C	5.77	123.09	110.80
1	ek	12	HIS	CG-CD2-NE2	5.77	112.97	107.20
1	eC	14	ALA	N-CA-C	5.77	118.34	110.55
1	eL	89	GLY	N-CA-C	5.77	124.11	112.34
1	eL	208	ALA	CA-C-N	5.77	129.46	120.75
1	eL	208	ALA	C-N-CA	5.77	129.46	120.75
1	eW	170	LYS	CA-C-N	5.77	128.49	120.29
1	eW	170	LYS	C-N-CA	5.77	128.49	120.29
1	f5	129	ILE	O-C-N	-5.77	116.27	121.87
1	fy	135	ILE	N-CA-C	5.77	118.26	111.05
1	fG	215	MET	N-CA-CB	5.77	118.60	110.12
1	g7	132	ARG	NE-CZ-NH2	5.77	124.39	119.20
1	B	6	LEU	O-C-N	-5.77	115.66	122.58
1	3	84	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	ge	154	ARG	O-C-N	-5.77	115.89	123.28
1	gf	87	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	gl	193	ASN	CA-C-N	5.77	128.90	120.71
1	gl	193	ASN	C-N-CA	5.77	128.90	120.71
1	go	142	VAL	CA-C-N	5.77	128.01	120.28
1	go	142	VAL	C-N-CA	5.77	128.01	120.28
1	gy	159	GLU	O-C-N	-5.77	114.95	121.36
1	gC	216	THR	CA-C-O	5.77	126.41	119.43
1	gE	119	THR	CA-C-O	5.77	126.05	119.18
1	gU	87	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	gU	103	ASP	CA-C-N	5.77	129.59	120.47
1	gU	103	ASP	C-N-CA	5.77	129.59	120.47
1	gZ	112	GLN	O-C-N	-5.77	116.00	122.12
1	h1	34	PRO	CA-C-N	5.77	129.83	120.60
1	h1	34	PRO	C-N-CA	5.77	129.83	120.60
1	hg	210	THR	CA-CB-OG1	5.77	118.26	109.60
1	hi	77	ALA	N-CA-C	5.77	118.31	111.33
1	hn	87	HIS	CB-CA-C	-5.77	99.15	109.71
1	ht	194	ALA	O-C-N	-5.77	116.21	122.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hy	25	LYS	N-CA-C	5.77	117.57	111.28
1	hA	97	ARG	N-CA-C	5.77	117.99	110.43
1	hW	31	ALA	N-CA-C	5.77	123.09	110.80
1	hY	134	ILE	O-C-N	-5.77	116.27	121.87
1	iu	103	ASP	N-CA-C	5.77	117.57	111.28
1	1Q	111	LEU	CA-C-O	5.77	126.67	120.55
1	iO	119	THR	N-CA-CB	5.77	119.44	110.44
1	iX	38	PRO	N-CD-CG	5.77	111.85	103.20
1	iY	32	PHE	CA-CB-CG	-5.77	108.03	113.80
1	jc	130	TYR	CA-CB-CG	-5.77	103.52	113.90
1	jm	230	VAL	N-CA-C	5.77	117.76	109.51
1	jB	226	HIS	N-CA-CB	5.77	118.61	110.36
1	jE	30	LYS	CA-C-N	5.77	128.59	120.28
1	jE	30	LYS	C-N-CA	5.77	128.59	120.28
1	jP	61	GLY	CA-C-N	5.77	130.60	122.46
1	jP	61	GLY	C-N-CA	5.77	130.60	122.46
1	jQ	54	THR	CA-C-N	5.77	128.33	120.54
1	jQ	54	THR	C-N-CA	5.77	128.33	120.54
1	jQ	157	PRO	N-CA-CB	5.77	109.90	103.44
1	jV	146	SER	O-C-N	-5.77	114.69	121.32
1	jZ	14	ALA	N-CA-C	5.77	117.74	110.24
1	22	148	THR	N-CA-CB	5.77	119.61	110.55
1	kw	206	GLY	O-C-N	-5.77	116.00	121.77
1	kA	222	GLY	O-C-N	5.77	128.99	123.05
1	kD	87	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	kW	133	TRP	CB-CG-CD2	-5.77	118.72	126.80
1	l3	107	THR	N-CA-C	-5.77	105.07	111.36
1	ld	34	PRO	N-CA-CB	5.77	109.84	103.26
1	ld	35	GLU	CA-C-N	5.77	128.37	120.46
1	ld	35	GLU	C-N-CA	5.77	128.37	120.46
1	li	41	SER	N-CA-C	5.77	117.57	111.28
1	lB	178	SER	CA-C-N	5.77	128.33	120.54
1	lB	178	SER	C-N-CA	5.77	128.33	120.54
1	lD	20	LEU	N-CA-CB	5.77	118.70	110.16
1	lD	142	VAL	CA-C-N	5.77	128.26	120.65
1	lD	142	VAL	C-N-CA	5.77	128.26	120.65
1	lK	2	ILE	N-CA-C	5.77	116.69	107.98
1	lO	84	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	2f	35	GLU	N-CA-C	-5.77	106.40	113.50
1	2l	172	LEU	N-CA-CB	5.77	118.60	110.12
1	2l	194	ALA	CA-C-N	5.77	128.68	120.49
1	2l	194	ALA	C-N-CA	5.77	128.68	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	108	THR	CA-C-O	5.77	126.02	119.27
1	2u	107	THR	N-CA-C	-5.77	106.59	113.97
1	2C	224	PRO	CA-C-N	5.77	132.49	122.05
1	2C	224	PRO	C-N-CA	5.77	132.49	122.05
1	2G	36	VAL	CA-C-O	5.77	126.70	120.47
1	2N	136	LEU	CA-C-N	5.77	126.35	120.00
1	2N	136	LEU	C-N-CA	5.77	126.35	120.00
1	2P	160	PRO	CB-CA-C	-5.77	103.42	110.98
1	2U	157	PRO	N-CA-C	-5.77	106.65	113.86
1	2Y	169	TYR	N-CA-C	5.77	119.50	112.23
1	31	189	LEU	O-C-N	-5.77	115.50	122.48
1	36	123	PRO	O-C-N	-5.77	115.66	122.99
1	38	133	TRP	N-CA-CB	5.77	118.38	110.01
1	3c	73	ILE	N-CA-C	5.77	116.50	110.62
1	3A	125	PRO	CA-C-N	5.77	128.04	120.60
1	3A	125	PRO	C-N-CA	5.77	128.04	120.60
1	3A	184	TRP	CD2-CE2-CZ2	-5.77	116.63	122.40
1	3O	54	THR	CA-C-N	5.77	127.94	120.44
1	3O	54	THR	C-N-CA	5.77	127.94	120.44
1	3U	179	GLN	CG-CD-NE2	-5.77	107.75	116.40
1	4a	179	GLN	N-CA-C	5.77	123.09	110.80
1	4c	201	ILE	CA-C-O	5.77	126.48	120.25
1	4f	41	SER	CA-C-N	5.77	128.01	120.28
1	4f	41	SER	C-N-CA	5.77	128.01	120.28
1	4h	111	LEU	N-CA-C	5.77	118.31	111.33
1	4q	173	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	4x	18	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	4U	156	GLY	O-C-N	-5.77	117.23	122.42
1	50	30	LYS	CA-C-N	5.77	132.56	121.54
1	50	30	LYS	C-N-CA	5.77	132.56	121.54
1	5d	124	ILE	N-CA-CB	5.77	117.30	111.36
1	5f	143	ARG	CA-C-N	5.77	128.01	120.28
1	5f	143	ARG	C-N-CA	5.77	128.01	120.28
1	5r	5	ASN	N-CA-C	5.77	118.95	110.30
1	5r	221	VAL	N-CA-C	5.77	116.17	107.75
1	5x	16	SER	CA-C-N	5.77	126.16	119.47
1	5x	16	SER	C-N-CA	5.77	126.16	119.47
1	5y	126	VAL	CA-C-O	-5.77	115.05	121.17
1	5J	164	TYR	CA-C-N	5.77	127.83	120.56
1	5J	164	TYR	C-N-CA	5.77	127.83	120.56
1	5R	177	ALA	N-CA-C	5.77	118.37	110.24
1	63	32	PHE	CA-CB-CG	-5.77	108.03	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6c	222	GLY	CA-C-N	5.77	128.74	121.36
1	6c	222	GLY	C-N-CA	5.77	128.74	121.36
1	6h	211	LEU	N-CA-C	5.77	117.57	111.28
1	6i	115	ILE	N-CA-C	5.77	116.55	110.72
1	6j	118	MET	CA-C-N	5.77	132.02	122.73
1	6j	118	MET	C-N-CA	5.77	132.02	122.73
1	6m	63	GLN	N-CA-C	5.77	118.51	111.82
1	6o	128	GLU	N-CA-C	5.77	117.57	111.28
1	6q	167	ARG	CA-C-N	5.77	128.48	120.63
1	6q	167	ARG	C-N-CA	5.77	128.48	120.63
1	6q	180	GLU	CA-C-N	5.77	128.04	120.60
1	6q	180	GLU	C-N-CA	5.77	128.04	120.60
1	74	120	HIS	CG-CD2-NE2	5.77	112.97	107.20
1	7v	31	ALA	CA-C-N	5.77	131.72	122.83
1	7v	31	ALA	C-N-CA	5.77	131.72	122.83
1	7A	176	GLN	CA-C-N	5.77	130.00	120.94
1	7A	176	GLN	C-N-CA	5.77	130.00	120.94
1	8b	136	LEU	N-CA-C	5.77	118.03	111.11
1	8i	136	LEU	N-CA-C	5.77	117.57	111.28
1	8o	134	ILE	CA-C-O	5.77	126.95	120.95
1	8o	170	LYS	N-CA-C	5.77	117.57	111.28
1	8u	171	THR	CA-C-O	5.77	126.72	120.55
1	8A	84	HIS	CG-CD2-NE2	5.77	112.97	107.20
1	8E	28	GLU	N-CA-CB	5.77	118.54	109.94
1	8E	57	ASN	CA-CB-CG	-5.77	106.83	112.60
1	8H	10	MET	CG-SD-CE	-5.77	88.21	100.90
1	8M	174	ALA	CA-C-N	5.77	128.96	120.82
1	8M	174	ALA	C-N-CA	5.77	128.96	120.82
1	8O	23	TRP	N-CA-C	5.77	117.24	111.07
1	97	84	HIS	O-C-N	-5.77	114.14	121.29
1	9d	138	LEU	CA-C-O	5.77	126.67	120.55
1	9g	195	ASN	CA-CB-CG	5.77	118.37	112.60
1	9u	39	MET	CA-C-O	5.77	126.67	120.55
1	9z	124	ILE	CB-CA-C	5.77	117.81	111.18
1	9z	226	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	9A	42	ALA	CA-C-N	5.77	128.01	120.28
1	9A	42	ALA	C-N-CA	5.77	128.01	120.28
1	a3	221	VAL	O-C-N	-5.77	115.36	122.57
1	10	229	ARG	N-CA-CB	5.77	118.48	110.17
1	ad	165	VAL	N-CA-C	5.77	121.34	109.34
1	ak	225	GLY	O-C-N	-5.77	115.70	122.34
1	al	155	GLN	N-CA-CB	5.77	118.45	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aB	84	HIS	CG-CD2-NE2	5.77	112.97	107.20
1	aM	97	ARG	CA-C-O	5.77	127.85	121.56
1	14	144	MET	CA-C-N	5.77	131.55	122.49
1	14	144	MET	C-N-CA	5.77	131.55	122.49
1	aT	10	MET	CA-C-N	5.77	129.58	122.37
1	aT	10	MET	C-N-CA	5.77	129.58	122.37
1	aV	79	GLU	N-CA-C	5.77	118.51	111.82
1	15	214	MET	O-C-N	-5.77	116.00	122.12
1	b2	54	THR	N-CA-C	5.77	117.24	111.07
1	b9	33	SER	CA-C-O	-5.77	114.34	120.28
1	be	99	PRO	O-C-N	-5.77	116.38	123.01
1	bh	6	LEU	CA-C-N	5.77	130.98	121.86
1	bh	6	LEU	C-N-CA	5.77	130.98	121.86
1	bj	87	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	bk	85	PRO	N-CA-C	5.77	120.38	111.21
1	br	112	GLN	N-CA-C	5.77	118.31	111.33
1	bw	84	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	bN	107	THR	CA-CB-OG1	5.77	118.25	109.60
1	bW	123	PRO	N-CA-C	5.77	120.28	111.11
1	c0	27	VAL	CA-C-N	5.77	127.94	120.44
1	c0	27	VAL	C-N-CA	5.77	127.94	120.44
1	c8	229	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	1d	139	ASN	N-CA-C	5.77	118.31	111.33
1	ci	18	ARG	CA-C-N	5.77	127.94	120.44
1	ci	18	ARG	C-N-CA	5.77	127.94	120.44
1	co	8	GLY	N-CA-C	-5.77	104.85	112.81
1	cD	87	HIS	CB-CG-CD2	-5.77	123.70	131.20
1	1g	165	VAL	CA-C-O	5.77	126.95	120.95
1	cN	20	LEU	N-CA-C	5.77	117.65	111.36
1	d3	126	VAL	O-C-N	-5.77	115.28	121.80
1	d6	159	GLU	CB-CA-C	5.77	119.89	109.45
1	da	95	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	dg	29	GLU	CA-C-O	5.77	126.64	120.24
1	dh	62	HIS	CA-CB-CG	-5.77	108.03	113.80
1	dn	229	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	dp	33	SER	O-C-N	-5.77	115.18	121.53
1	ds	77	ALA	N-CA-C	5.77	118.03	111.11
1	dA	173	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	dF	14	ALA	N-CA-C	5.77	118.64	110.50
1	dK	25	LYS	CA-C-N	5.77	128.04	120.60
1	dK	25	LYS	C-N-CA	5.77	128.04	120.60
1	dO	83	LEU	CA-C-N	5.77	132.69	122.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	83	LEU	C-N-CA	5.77	132.69	122.48
1	dP	134	ILE	CA-C-N	5.77	128.61	120.42
1	dP	134	ILE	C-N-CA	5.77	128.61	120.42
1	dZ	12	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	e5	159	GLU	O-C-N	-5.77	116.29	121.31
1	e6	93	PRO	N-CA-CB	-5.77	97.19	103.25
1	ep	198	CYS	CA-C-O	-5.77	114.76	120.82
1	ev	226	HIS	CA-CB-CG	-5.77	108.03	113.80
1	ey	110	THR	CA-C-O	-5.77	114.58	121.56
1	eS	133	TRP	CE2-CD2-CE3	5.77	124.57	118.80
1	fc	106	GLY	O-C-N	-5.77	114.84	122.28
1	fe	137	GLY	CA-C-N	5.77	128.01	120.28
1	fe	137	GLY	C-N-CA	5.77	128.01	120.28
1	fj	18	ARG	CA-C-N	5.77	127.94	120.44
1	fj	18	ARG	C-N-CA	5.77	127.94	120.44
1	fl	7	GLN	N-CA-C	5.77	119.08	110.14
1	fo	37	ILE	CA-C-O	-5.77	114.33	118.71
1	fx	179	GLN	CA-C-N	5.77	128.29	120.44
1	fx	179	GLN	C-N-CA	5.77	128.29	120.44
1	fG	185	MET	N-CA-CB	5.77	118.60	110.12
1	fJ	216	THR	N-CA-C	5.77	120.46	112.90
1	fL	175	GLU	O-C-N	-5.77	115.83	122.93
1	fQ	176	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	fT	55	MET	O-C-N	-5.77	116.00	122.12
1	fT	79	GLU	CA-C-N	5.77	128.28	120.38
1	fT	79	GLU	C-N-CA	5.77	128.28	120.38
1	fU	75	GLU	N-CA-CB	5.77	118.38	110.01
1	a	137	GLY	O-C-N	5.77	127.73	122.19
1	e	120	HIS	O-C-N	-5.77	115.61	122.65
1	f	108	THR	CB-CA-C	-5.77	100.72	110.64
1	f	207	PRO	CA-C-N	5.77	130.84	122.36
1	f	207	PRO	C-N-CA	5.77	130.84	122.36
1	H	19	THR	CA-C-N	5.77	130.45	120.58
1	H	19	THR	C-N-CA	5.77	130.45	120.58
1	N	97	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	4	26	VAL	CA-C-O	-5.77	114.54	120.71
1	4	112	GLN	CA-C-O	5.77	126.66	120.20
1	T	123	PRO	CA-C-N	5.77	129.43	122.85
1	T	123	PRO	C-N-CA	5.77	129.43	122.85
1	V	114	GLN	CA-C-N	5.77	128.36	120.46
1	V	114	GLN	C-N-CA	5.77	128.36	120.46
1	5	127	GLY	CA-C-N	5.77	128.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	127	GLY	C-N-CA	5.77	128.01	120.28
1	gn	92	GLU	N-CA-C	5.77	121.47	113.45
1	gt	18	ARG	NE-CZ-NH1	-5.77	115.73	121.50
1	gH	226	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	gR	21	ASN	N-CA-C	5.77	117.57	111.28
1	h8	140	LYS	CA-C-N	5.77	127.94	120.56
1	h8	140	LYS	C-N-CA	5.77	127.94	120.56
1	hw	156	GLY	N-CA-C	5.77	124.10	112.34
1	hz	227	LYS	O-C-N	-5.77	115.93	122.68
1	1K	43	LEU	N-CA-C	5.77	118.34	111.71
1	hV	203	LYS	CG-CD-CE	5.77	124.56	111.30
1	i5	105	ALA	O-C-N	-5.77	113.85	122.39
1	1O	76	GLU	N-CA-C	5.77	118.51	111.82
1	ih	126	VAL	CA-C-N	5.77	126.34	120.00
1	ih	126	VAL	C-N-CA	5.77	126.34	120.00
1	ix	201	ILE	O-C-N	-5.77	116.26	121.91
1	iy	172	LEU	CA-C-O	5.77	126.60	119.79
1	iE	78	ALA	N-CA-C	5.77	117.37	111.14
1	iG	157	PRO	CB-CA-C	5.77	120.04	111.62
1	iR	80	TRP	CG-CD2-CE3	-5.77	128.13	133.90
1	iU	175	GLU	CB-CA-C	-5.77	100.44	109.84
1	j8	53	ASN	CA-C-N	5.77	128.26	120.65
1	j8	53	ASN	C-N-CA	5.77	128.26	120.65
1	jk	111	LEU	O-C-N	-5.77	116.01	122.12
1	jp	151	LEU	CA-C-N	5.77	131.88	122.65
1	jp	151	LEU	C-N-CA	5.77	131.88	122.65
1	jp	180	GLU	N-CA-C	5.77	118.34	111.71
1	jx	16	SER	CB-CA-C	5.77	118.75	109.41
1	jy	52	LEU	CA-C-N	5.77	128.48	120.29
1	jy	52	LEU	C-N-CA	5.77	128.48	120.29
1	jy	182	LYS	CA-C-N	5.77	127.94	120.44
1	jy	182	LYS	C-N-CA	5.77	127.94	120.44
1	jN	201	ILE	CA-C-O	-5.77	115.06	121.17
1	1Y	133	TRP	N-CA-CB	5.77	118.43	110.07
1	k6	205	LEU	N-CA-C	5.77	117.57	111.28
1	kx	89	GLY	CA-C-N	5.77	125.78	119.90
1	kx	89	GLY	C-N-CA	5.77	125.78	119.90
1	kz	105	ALA	CA-C-O	5.77	126.40	119.59
1	kD	129	ILE	N-CA-C	-5.77	104.88	110.42
1	kJ	72	THR	CB-CA-C	-5.77	101.05	110.85
1	l5	140	LYS	CA-C-O	-5.77	114.44	120.55
1	l5	146	SER	O-C-N	-5.77	115.31	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l6	98	GLU	CA-C-O	-5.77	114.17	120.17
1	lh	18	ARG	N-CA-CB	5.77	118.60	110.12
1	ll	12	HIS	N-CA-CB	5.77	118.89	109.95
1	lt	124	ILE	CA-C-N	5.77	127.05	119.84
1	lt	124	ILE	C-N-CA	5.77	127.05	119.84
1	2x	33	SER	CA-C-O	-5.77	115.31	120.56
1	2B	53	ASN	CA-CB-CG	-5.77	106.83	112.60
1	2G	214	MET	CA-C-N	5.77	128.01	120.28
1	2G	214	MET	C-N-CA	5.77	128.01	120.28
1	2V	65	ALA	N-CA-C	5.77	117.57	111.28
1	34	84	HIS	CB-CA-C	-5.77	103.77	110.17
1	3i	217	ALA	N-CA-C	5.77	118.34	110.55
1	3j	2	ILE	CB-CA-C	-5.77	103.09	111.68
1	3j	80	TRP	N-CA-C	5.77	118.03	111.11
1	3x	181	VAL	N-CA-CB	5.77	117.30	110.55
1	3J	133	TRP	O-C-N	-5.77	116.13	122.07
1	3M	150	ILE	CA-C-O	5.77	126.74	120.57
1	3X	16	SER	CA-C-N	5.77	125.30	119.19
1	3X	16	SER	C-N-CA	5.77	125.30	119.19
1	4b	15	ILE	CA-CB-CG1	5.77	120.21	110.40
1	4i	154	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	4n	197	ASP	CA-CB-CG	5.77	118.37	112.60
1	4E	114	GLN	CA-C-N	5.77	128.36	120.46
1	4E	114	GLN	C-N-CA	5.77	128.36	120.46
1	4F	230	VAL	O-C-N	-5.77	116.58	122.75
1	4I	31	ALA	O-C-N	-5.77	116.22	122.79
1	4O	217	ALA	CA-C-O	-5.77	115.18	121.87
1	4S	96	MET	O-C-N	-5.77	115.69	122.96
1	4U	87	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	4V	211	LEU	N-CA-C	5.77	118.34	111.71
1	5d	108	THR	CA-C-N	5.77	132.55	121.54
1	5d	108	THR	C-N-CA	5.77	132.55	121.54
1	5h	194	ALA	CA-C-N	5.77	128.50	120.65
1	5h	194	ALA	C-N-CA	5.77	128.50	120.65
1	5r	159	GLU	CA-C-N	5.77	125.77	119.89
1	5r	159	GLU	C-N-CA	5.77	125.77	119.89
1	61	106	GLY	N-CA-C	5.77	123.01	115.40
1	62	229	ARG	CA-C-O	5.77	128.10	121.47
1	65	173	ARG	NE-CZ-NH1	5.77	127.27	121.50
1	66	202	LEU	CA-C-N	5.77	128.01	120.28
1	66	202	LEU	C-N-CA	5.77	128.01	120.28
1	6c	118	MET	CA-C-O	5.77	126.41	119.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6i	191	VAL	CA-C-N	5.77	128.01	120.28
1	6i	191	VAL	C-N-CA	5.77	128.01	120.28
1	6k	81	ASP	CA-CB-CG	5.77	118.37	112.60
1	6l	151	LEU	CA-C-N	5.77	130.44	120.58
1	6l	151	LEU	C-N-CA	5.77	130.44	120.58
1	6m	142	VAL	N-CA-C	5.77	115.96	110.42
1	6s	117	TRP	CD2-CE2-CZ2	-5.77	116.63	122.40
1	6A	199	LYS	N-CA-C	5.77	118.34	111.71
1	6J	50	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	72	216	THR	N-CA-C	-5.77	106.37	113.41
1	76	176	GLN	CA-C-N	5.77	128.90	120.71
1	76	176	GLN	C-N-CA	5.77	128.90	120.71
1	79	165	VAL	CA-C-N	5.77	128.28	120.44
1	79	165	VAL	C-N-CA	5.77	128.28	120.44
1	7i	95	GLN	O-C-N	-5.77	116.81	123.33
1	7D	167	ARG	CD-NE-CZ	5.77	132.47	124.40
1	89	117	TRP	CA-C-N	5.77	129.07	120.31
1	89	117	TRP	C-N-CA	5.77	129.07	120.31
1	8o	85	PRO	O-C-N	-5.77	116.38	123.01
1	8v	87	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	8z	48	THR	CA-C-O	-5.77	114.42	120.88
1	8B	33	SER	N-CA-C	-5.77	102.94	108.07
1	8C	62	HIS	ND1-CG-CD2	5.77	111.87	106.10
1	8Q	85	PRO	N-CA-CB	-5.77	98.28	103.36
1	9e	167	ARG	CA-C-N	5.77	128.26	120.65
1	9e	167	ARG	C-N-CA	5.77	128.26	120.65
1	9h	135	ILE	N-CA-C	5.77	116.54	110.72
1	9i	66	MET	CA-C-N	5.77	128.01	120.28
1	9i	66	MET	C-N-CA	5.77	128.01	120.28
1	9t	77	ALA	CA-C-N	5.77	127.94	120.44
1	9t	77	ALA	C-N-CA	5.77	127.94	120.44
1	9N	182	LYS	O-C-N	-5.77	116.01	122.12
1	a9	155	GLN	CB-CG-CD	5.77	122.41	112.60
1	ag	176	GLN	CB-CG-CD	-5.77	102.80	112.60
1	am	200	THR	CA-C-N	5.77	127.83	120.56
1	am	200	THR	C-N-CA	5.77	127.83	120.56
1	ap	156	GLY	O-C-N	-5.77	117.23	122.42
1	at	103	ASP	O-C-N	5.77	128.72	122.15
1	ax	12	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	aB	15	ILE	N-CA-CB	-5.77	102.44	110.05
1	aB	32	PHE	N-CA-CB	5.77	116.81	110.35
1	aN	173	ARG	CA-C-O	-5.77	114.31	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aO	11	VAL	CB-CA-C	-5.77	103.76	110.91
1	aW	67	GLN	N-CA-C	-5.77	104.99	111.28
1	aX	84	HIS	O-C-N	5.77	126.66	121.35
1	bg	58	THR	N-CA-CB	5.77	119.22	110.28
1	bh	74	ASN	O-C-N	-5.77	115.58	122.15
1	bw	143	ARG	N-CA-C	5.77	117.57	111.28
1	bx	1	PRO	CA-C-N	5.77	130.62	123.12
1	bx	1	PRO	C-N-CA	5.77	130.62	123.12
1	bz	14	ALA	N-CA-C	5.77	117.99	110.43
1	bF	190	LEU	CA-C-N	5.77	127.83	120.56
1	bF	190	LEU	C-N-CA	5.77	127.83	120.56
1	bQ	145	TYR	CA-CB-CG	5.77	124.28	113.90
1	bS	12	HIS	CG-CD2-NE2	5.77	112.97	107.20
1	cb	197	ASP	CA-CB-CG	5.77	118.37	112.60
1	cm	140	LYS	O-C-N	5.77	128.23	122.12
1	ct	188	THR	O-C-N	-5.77	114.86	122.42
1	cu	112	GLN	OE1-CD-NE2	5.77	128.37	122.60
1	cy	73	ILE	CA-C-O	5.77	126.95	120.95
1	cX	168	PHE	CD1-CG-CD2	5.77	127.25	118.60
1	cY	201	ILE	N-CA-CB	5.77	117.30	110.55
1	d3	171	THR	N-CA-CB	5.77	118.37	110.01
1	1i	139	ASN	CA-C-N	5.77	128.28	120.44
1	1i	139	ASN	C-N-CA	5.77	128.28	120.44
1	1i	167	ARG	NE-CZ-NH2	-5.77	114.01	119.20
1	d7	63	GLN	CG-CD-NE2	5.77	125.05	116.40
1	da	230	VAL	CA-C-N	5.77	132.08	121.70
1	da	230	VAL	C-N-CA	5.77	132.08	121.70
1	dd	5	ASN	CB-CG-OD1	5.77	132.33	120.80
1	dh	210	THR	O-C-N	-5.77	115.72	122.81
1	dp	87	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	du	145	TYR	CB-CA-C	-5.77	100.88	110.68
1	dv	154	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	dB	5	ASN	N-CA-C	5.77	118.07	109.59
1	dB	59	VAL	CB-CA-C	5.77	119.56	111.08
1	dE	150	ILE	CA-C-O	-5.77	114.95	120.95
1	1m	21	ASN	CA-C-O	5.77	127.06	121.00
1	dK	71	GLU	O-C-N	-5.77	115.47	122.22
1	dN	157	PRO	N-CA-C	5.77	124.35	112.47
1	e2	129	ILE	N-CA-C	5.77	115.96	110.42
1	ed	109	SER	O-C-N	-5.77	115.66	123.10
1	em	179	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	ep	202	LEU	O-C-N	-5.77	115.18	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	23	TRP	CZ3-CH2-CZ2	-5.77	114.00	121.50
1	eC	159	GLU	CA-C-N	5.77	126.57	120.11
1	eC	159	GLU	C-N-CA	5.77	126.57	120.11
1	eG	9	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	eI	97	ARG	N-CA-C	5.77	117.74	110.24
1	eR	206	GLY	O-C-N	-5.77	116.00	121.77
1	f6	226	HIS	N-CA-CB	5.77	119.13	110.65
1	f7	166	ASP	CA-C-O	5.77	126.88	120.82
1	fb	69	LEU	O-C-N	-5.77	116.01	122.12
1	fh	184	TRP	CD2-CE2-CZ2	-5.77	116.63	122.40
1	fi	25	LYS	CA-C-N	-5.77	112.31	121.02
1	fi	25	LYS	C-N-CA	-5.77	112.31	121.02
1	fs	97	ARG	N-CA-CB	-5.77	100.74	110.49
1	1x	80	TRP	CA-C-N	5.77	128.48	120.29
1	1x	80	TRP	C-N-CA	5.77	128.48	120.29
1	fy	50	GLN	CA-C-N	5.77	128.28	120.44
1	fy	50	GLN	C-N-CA	5.77	128.28	120.44
1	fD	128	GLU	N-CA-C	5.77	118.03	111.11
1	fH	15	ILE	CA-C-O	5.77	127.70	121.36
1	fW	72	THR	N-CA-C	5.77	117.57	111.28
1	n	59	VAL	CA-C-O	5.77	126.88	120.59
1	2	38	PRO	O-C-N	-5.77	114.48	122.27
1	D	25	LYS	N-CA-C	5.77	118.06	111.02
1	8	18	ARG	CA-C-N	5.77	128.01	120.28
1	8	18	ARG	C-N-CA	5.77	128.01	120.28
1	gd	41	SER	CB-CA-C	-5.77	101.22	110.79
1	gp	219	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	gQ	164	TYR	N-CA-C	5.77	117.24	111.07
1	gW	165	VAL	CA-C-O	-5.77	114.65	121.05
1	1I	188	THR	CA-C-N	5.77	128.01	120.28
1	1I	188	THR	C-N-CA	5.77	128.01	120.28
1	hk	62	HIS	CA-C-O	5.77	128.76	120.51
1	hw	189	LEU	O-C-N	5.77	130.26	122.59
1	hQ	143	ARG	CA-C-N	5.77	128.01	120.28
1	hQ	143	ARG	C-N-CA	5.77	128.01	120.28
1	i6	195	ASN	N-CA-C	5.77	117.86	109.84
1	iv	184	TRP	CD2-CE2-CZ2	-5.77	116.63	122.40
1	iZ	39	MET	N-CA-C	5.77	117.56	111.28
1	j3	203	LYS	CA-C-O	-5.77	114.44	120.55
1	jp	165	VAL	CA-C-N	5.77	128.01	120.28
1	jp	165	VAL	C-N-CA	5.77	128.01	120.28
1	jt	173	ARG	NE-CZ-NH2	5.77	124.39	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jV	98	GLU	CA-C-O	-5.77	113.78	119.49
1	jZ	200	THR	CB-CA-C	-5.77	101.83	110.88
1	kt	167	ARG	NE-CZ-NH2	-5.77	114.01	119.20
1	26	124	ILE	O-C-N	-5.77	116.55	121.57
1	l8	147	PRO	N-CD-CG	5.77	111.85	103.20
1	l9	220	GLY	CA-C-N	5.77	128.71	121.85
1	l9	220	GLY	C-N-CA	5.77	128.71	121.85
1	lm	154	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	lE	21	ASN	CA-CB-CG	-5.77	106.83	112.60
1	2a	125	PRO	N-CA-CB	5.77	106.67	102.81
1	2b	213	GLU	CB-CA-C	-5.77	101.22	110.79
1	2c	165	VAL	CA-C-N	5.77	128.32	120.54
1	2c	165	VAL	C-N-CA	5.77	128.32	120.54
1	2g	121	ASN	CB-CA-C	5.77	116.78	110.15
1	33	132	ARG	O-C-N	-5.77	115.47	122.22
1	3v	156	GLY	N-CA-C	-5.77	105.25	112.23
1	3I	164	TYR	O-C-N	-5.77	116.13	122.07
1	4a	120	HIS	ND1-CE1-NE2	5.77	114.17	108.40
1	4r	128	GLU	N-CA-C	5.77	117.56	111.28
1	4D	87	HIS	N-CA-C	5.77	119.01	110.48
1	5f	144	MET	N-CA-C	5.77	117.56	111.28
1	6m	171	THR	N-CA-C	5.77	117.24	111.07
1	6u	178	SER	O-C-N	-5.77	115.88	122.68
1	6y	10	MET	CA-C-N	-5.77	115.16	122.43
1	6y	10	MET	C-N-CA	-5.77	115.16	122.43
1	6Q	169	TYR	N-CA-CB	5.77	118.69	110.16
1	7b	199	LYS	N-CA-C	5.77	118.03	111.11
1	7e	103	ASP	O-C-N	-5.77	115.58	122.15
1	7h	84	HIS	CA-C-O	5.77	125.78	119.32
1	7M	96	MET	CG-SD-CE	-5.77	88.22	100.90
1	7R	84	HIS	CA-C-N	5.77	127.05	119.84
1	7R	84	HIS	C-N-CA	5.77	127.05	119.84
1	81	162	ARG	N-CA-C	5.77	117.56	111.28
1	8L	181	VAL	CA-C-O	5.77	126.95	120.95
1	8O	16	SER	CA-C-N	5.77	127.05	119.84
1	8O	16	SER	C-N-CA	5.77	127.05	119.84
1	94	138	LEU	N-CA-C	5.77	117.56	111.28
1	9d	84	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
1	9t	159	GLU	N-CA-C	5.77	116.66	109.57
1	9D	82	ARG	CA-C-N	5.77	127.94	120.44
1	9D	82	ARG	C-N-CA	5.77	127.94	120.44
1	au	78	ALA	N-CA-C	5.77	117.24	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	az	87	HIS	CA-CB-CG	5.77	119.57	113.80
1	aA	131	LYS	CA-C-N	5.77	128.32	120.54
1	aA	131	LYS	C-N-CA	5.77	128.32	120.54
1	aF	126	VAL	CB-CA-C	-5.77	104.36	112.14
1	bg	174	ALA	N-CA-C	5.77	120.31	113.28
1	bn	225	GLY	CA-C-N	5.77	129.46	120.75
1	bn	225	GLY	C-N-CA	5.77	129.46	120.75
1	bY	6	LEU	CA-C-N	5.77	130.32	122.19
1	bY	6	LEU	C-N-CA	5.77	130.32	122.19
1	ca	126	VAL	N-CA-C	5.77	116.50	110.62
1	cf	27	VAL	N-CA-C	5.77	116.41	110.36
1	cp	70	LYS	CA-C-N	5.77	128.01	120.28
1	cp	70	LYS	C-N-CA	5.77	128.01	120.28
1	cX	71	GLU	CA-C-N	5.77	129.47	120.82
1	cX	71	GLU	C-N-CA	5.77	129.47	120.82
1	dw	40	PHE	CA-C-O	-5.77	114.44	120.55
1	dB	140	LYS	O-C-N	-5.77	116.13	122.07
1	dE	216	THR	CA-CB-OG1	5.77	118.25	109.60
1	e0	141	ILE	CA-C-N	5.77	128.36	120.46
1	e0	141	ILE	C-N-CA	5.77	128.36	120.46
1	e3	41	SER	N-CA-C	5.77	117.56	111.28
1	el	193	ASN	CB-CA-C	-5.77	102.79	111.73
1	eo	80	TRP	CA-C-N	5.77	128.58	120.28
1	eo	80	TRP	C-N-CA	5.77	128.58	120.28
1	f5	191	VAL	CA-C-N	5.77	128.32	120.54
1	f5	191	VAL	C-N-CA	5.77	128.32	120.54
1	fk	149	SER	CB-CA-C	5.77	120.15	109.54
1	o	124	ILE	CA-C-O	-5.77	115.89	119.12
1	M	176	GLN	OE1-CD-NE2	-5.77	116.83	122.60
1	gm	69	LEU	N-CA-C	5.76	117.24	111.07
1	gB	32	PHE	CA-C-O	5.76	127.20	120.98
1	gG	113	GLU	N-CA-C	5.76	117.37	111.14
1	1F	103	ASP	CA-C-N	5.76	127.82	120.56
1	1F	103	ASP	C-N-CA	5.76	127.82	120.56
1	gN	167	ARG	CD-NE-CZ	5.76	132.47	124.40
1	gX	109	SER	N-CA-CB	5.76	119.05	110.29
1	1H	126	VAL	CA-C-N	5.76	127.54	120.22
1	1H	126	VAL	C-N-CA	5.76	127.54	120.22
1	hf	141	ILE	CA-C-N	5.76	128.36	120.46
1	hf	141	ILE	C-N-CA	5.76	128.36	120.46
1	hi	153	ILE	CA-CB-CG1	5.76	120.20	110.40
1	hz	119	THR	O-C-N	-5.76	114.73	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	101	GLY	CA-C-N	5.76	128.00	120.28
1	hF	101	GLY	C-N-CA	5.76	128.00	120.28
1	hL	34	PRO	N-CA-CB	5.76	109.30	103.25
1	hO	154	ARG	N-CA-C	-5.76	100.30	109.23
1	hY	18	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	i1	151	LEU	CB-CA-C	-5.76	101.43	110.94
1	i3	72	THR	CA-C-O	5.76	126.66	120.55
1	im	175	GLU	N-CA-C	5.76	118.71	110.24
1	iA	208	ALA	O-C-N	-5.76	114.76	122.49
1	iY	171	THR	CA-C-O	5.76	126.59	119.79
1	j4	132	ARG	CA-C-O	5.76	127.07	120.90
1	ji	61	GLY	N-CA-C	-5.76	102.08	110.90
1	jy	59	VAL	CB-CA-C	-5.76	104.49	112.04
1	jA	47	ALA	N-CA-C	5.76	118.14	110.53
1	jI	24	VAL	CA-CB-CG2	5.76	120.20	110.40
1	jK	42	ALA	N-CA-CB	-5.76	100.73	110.41
1	jS	216	THR	CA-CB-CG2	-5.76	100.70	110.50
1	jX	119	THR	CA-C-N	5.76	130.96	121.39
1	jX	119	THR	C-N-CA	5.76	130.96	121.39
1	k8	100	ARG	N-CA-C	-5.76	101.47	110.17
1	20	16	SER	CA-C-O	-5.76	114.02	120.25
1	kc	170	LYS	CA-C-N	5.76	128.47	120.29
1	kc	170	LYS	C-N-CA	5.76	128.47	120.29
1	kM	24	VAL	N-CA-C	-5.76	104.74	110.62
1	kP	202	LEU	CA-C-N	5.76	127.94	120.44
1	kP	202	LEU	C-N-CA	5.76	127.94	120.44
1	kY	193	ASN	CA-CB-CG	-5.76	106.84	112.60
1	l2	114	GLN	N-CA-C	5.76	117.56	111.28
1	l3	4	GLN	O-C-N	-5.76	115.78	122.87
1	lC	155	GLN	OE1-CD-NE2	-5.76	116.83	122.60
1	lI	192	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	lN	191	VAL	CA-CB-CG2	-5.76	100.60	110.40
1	2k	19	THR	O-C-N	5.76	128.23	122.12
1	2x	37	ILE	CA-C-N	5.76	125.30	119.19
1	2x	37	ILE	C-N-CA	5.76	125.30	119.19
1	2x	97	ARG	NE-CZ-NH1	5.76	127.27	121.50
1	32	5	ASN	CA-C-N	5.76	132.55	121.54
1	32	5	ASN	C-N-CA	5.76	132.55	121.54
1	32	220	GLY	CA-C-N	5.76	129.11	120.69
1	32	220	GLY	C-N-CA	5.76	129.11	120.69
1	36	177	ALA	N-CA-C	5.76	117.77	110.33
1	3c	117	TRP	CA-C-N	5.76	131.23	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	117	TRP	C-N-CA	5.76	131.23	121.14
1	3p	63	GLN	CB-CG-CD	5.76	122.40	112.60
1	3v	147	PRO	CA-C-N	5.76	132.55	121.54
1	3v	147	PRO	C-N-CA	5.76	132.55	121.54
1	3v	154	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	3I	62	HIS	ND1-CE1-NE2	5.76	114.17	108.40
1	4y	15	ILE	CB-CA-C	-5.76	102.19	111.59
1	4A	157	PRO	N-CA-CB	-5.76	97.72	103.20
1	4B	211	LEU	O-C-N	-5.76	116.01	122.12
1	4C	19	THR	N-CA-C	5.76	118.30	111.33
1	4I	181	VAL	O-C-N	-5.76	115.91	121.90
1	4X	98	GLU	N-CA-C	5.76	116.96	109.64
1	50	128	GLU	CA-C-N	5.76	127.82	120.56
1	50	128	GLU	C-N-CA	5.76	127.82	120.56
1	52	178	SER	CA-C-O	-5.76	115.53	121.87
1	54	61	GLY	CA-C-N	5.76	130.55	122.08
1	54	61	GLY	C-N-CA	5.76	130.55	122.08
1	56	12	HIS	CE1-NE2-CD2	-5.76	103.23	109.00
1	5e	132	ARG	O-C-N	-5.76	116.13	122.07
1	5f	230	VAL	N-CA-C	5.76	116.41	107.99
1	5n	145	TYR	CA-C-O	5.76	126.64	119.78
1	5o	221	VAL	CA-C-O	5.76	127.22	120.71
1	5s	161	PHE	CA-CB-CG	5.76	119.56	113.80
1	5H	183	ASN	O-C-N	-5.76	116.01	122.12
1	5M	155	GLN	OE1-CD-NE2	5.76	128.36	122.60
1	5Q	41	SER	CA-C-N	5.76	128.28	120.44
1	5Q	41	SER	C-N-CA	5.76	128.28	120.44
1	5S	150	ILE	N-CA-C	5.76	118.30	111.09
1	5V	41	SER	N-CA-C	5.76	117.56	111.28
1	61	168	PHE	N-CA-CB	-5.76	101.65	110.01
1	6d	112	GLN	N-CA-C	5.76	118.03	111.11
1	6e	29	GLU	N-CA-C	5.76	117.24	111.07
1	6g	68	MET	O-C-N	-5.76	116.01	122.12
1	6x	54	THR	N-CA-C	5.76	117.56	111.28
1	6H	21	ASN	N-CA-C	5.76	119.57	112.54
1	6O	161	PHE	O-C-N	-5.76	114.92	122.59
1	6U	148	THR	N-CA-C	5.76	117.69	108.41
1	72	73	ILE	N-CA-CB	5.76	116.91	110.51
1	7d	183	ASN	N-CA-C	5.76	117.56	111.28
1	7p	173	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	7t	48	THR	CA-C-N	5.76	125.89	119.32
1	7t	48	THR	C-N-CA	5.76	125.89	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	221	VAL	N-CA-C	5.76	117.02	109.58
1	7B	79	GLU	CA-C-N	5.76	128.00	120.28
1	7B	79	GLU	C-N-CA	5.76	128.00	120.28
1	7B	182	LYS	N-CA-CB	-5.76	101.34	110.22
1	7D	48	THR	O-C-N	-5.76	115.49	121.60
1	7P	182	LYS	CA-C-O	5.76	126.86	120.63
1	82	10	MET	CA-C-O	5.76	128.26	121.40
1	8o	221	VAL	CA-C-N	-5.76	116.62	123.08
1	8o	221	VAL	C-N-CA	-5.76	116.62	123.08
1	8p	42	ALA	CB-CA-C	-5.76	98.26	110.31
1	8t	173	ARG	NE-CZ-NH2	-5.76	114.01	119.20
1	8y	113	GLU	N-CA-C	5.76	117.24	111.07
1	8I	202	LEU	CA-C-N	5.76	128.58	120.28
1	8I	202	LEU	C-N-CA	5.76	128.58	120.28
1	99	167	ARG	N-CA-C	5.76	118.51	111.82
1	9b	73	ILE	CA-C-N	5.76	127.93	120.44
1	9b	73	ILE	C-N-CA	5.76	127.93	120.44
1	9b	168	PHE	CB-CA-C	5.76	120.09	110.92
1	9c	58	THR	CA-C-O	5.76	125.72	119.15
1	9o	226	HIS	ND1-CE1-NE2	5.76	114.17	108.40
1	9F	167	ARG	CA-C-N	5.76	128.80	120.79
1	9F	167	ARG	C-N-CA	5.76	128.80	120.79
1	aj	88	ALA	N-CA-CB	-5.76	100.75	110.49
1	11	11	VAL	O-C-N	-5.76	116.80	122.97
1	11	77	ALA	CA-C-O	-5.76	114.77	120.82
1	al	15	ILE	CA-CB-CG2	5.76	120.30	110.50
1	an	168	PHE	CB-CA-C	5.76	120.03	110.81
1	aF	80	TRP	CE2-CD2-CE3	5.76	124.56	118.80
1	aV	144	MET	CG-SD-CE	-5.76	88.22	100.90
1	ba	225	GLY	O-C-N	-5.76	118.21	122.71
1	bg	51	ASP	N-CA-C	5.76	117.56	111.28
1	bq	36	VAL	N-CA-C	5.76	116.54	110.72
1	bD	219	GLN	OE1-CD-NE2	5.76	128.37	122.60
1	bG	111	LEU	N-CA-C	5.76	117.56	111.28
1	bK	19	THR	CA-C-O	5.76	126.64	120.70
1	bL	214	MET	N-CA-C	5.76	117.24	111.07
1	bV	126	VAL	CA-C-N	5.76	127.60	120.34
1	bV	126	VAL	C-N-CA	5.76	127.60	120.34
1	bW	48	THR	O-C-N	-5.76	114.97	121.43
1	c4	196	PRO	CA-C-N	5.76	128.00	120.28
1	c4	196	PRO	C-N-CA	5.76	128.00	120.28
1	1c	229	ARG	NE-CZ-NH1	5.76	127.27	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c6	14	ALA	N-CA-C	5.76	123.08	110.80
1	c8	160	PRO	N-CA-CB	5.76	108.44	103.31
1	1f	184	TRP	O-C-N	-5.76	115.86	122.09
1	cH	84	HIS	N-CA-C	5.76	118.63	109.64
1	cJ	14	ALA	CA-C-N	5.76	128.82	120.98
1	cJ	14	ALA	C-N-CA	5.76	128.82	120.98
1	cY	180	GLU	N-CA-CB	5.76	118.53	109.94
1	dc	183	ASN	N-CA-C	5.76	117.56	111.28
1	dd	171	THR	CA-C-O	5.76	126.86	120.63
1	dg	19	THR	N-CA-C	-5.76	105.08	111.36
1	dk	37	ILE	CA-C-N	5.76	125.38	119.56
1	dk	37	ILE	C-N-CA	5.76	125.38	119.56
1	dr	202	LEU	N-CA-C	5.76	117.56	111.28
1	dw	212	GLU	CA-C-O	5.76	126.87	120.82
1	dy	211	LEU	N-CA-CB	-5.76	101.64	110.12
1	dA	154	ARG	NE-CZ-NH2	-5.76	114.01	119.20
1	dE	131	LYS	CA-C-N	5.76	127.93	120.44
1	dE	131	LYS	C-N-CA	5.76	127.93	120.44
1	dG	211	LEU	N-CA-C	5.76	118.31	111.33
1	dJ	95	GLN	O-C-N	-5.76	115.70	122.96
1	dV	21	ASN	OD1-CG-ND2	-5.76	116.83	122.60
1	dW	51	ASP	N-CA-C	5.76	117.64	111.36
1	1o	139	ASN	CA-C-O	5.76	126.66	120.55
1	e9	161	PHE	CA-C-N	5.76	128.28	120.38
1	e9	161	PHE	C-N-CA	5.76	128.28	120.38
1	1p	87	HIS	ND1-CE1-NE2	5.76	114.17	108.40
1	ei	162	ARG	CA-CB-CG	5.76	125.63	114.10
1	eo	82	ARG	N-CA-CB	5.76	118.69	110.16
1	et	192	GLN	CB-CG-CD	5.76	122.40	112.60
1	eu	230	VAL	CA-C-O	5.76	126.59	120.48
1	ex	180	GLU	CA-C-O	5.76	126.04	119.18
1	f3	210	THR	O-C-N	-5.76	114.56	122.23
1	ff	34	PRO	CA-C-N	5.76	127.93	120.44
1	ff	34	PRO	C-N-CA	5.76	127.93	120.44
1	fi	89	GLY	CA-C-N	5.76	127.05	119.84
1	fi	89	GLY	C-N-CA	5.76	127.05	119.84
1	ft	206	GLY	CA-C-O	-5.76	113.28	121.52
1	fH	73	ILE	CA-C-N	5.76	128.00	120.28
1	fH	73	ILE	C-N-CA	5.76	128.00	120.28
1	fP	148	THR	N-CA-CB	5.76	120.23	110.49
1	fU	107	THR	CA-CB-OG1	5.76	118.25	109.60
1	l	62	HIS	N-CA-C	5.76	119.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	4	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	x	11	VAL	CA-CB-CG1	5.76	120.20	110.40
1	Q	69	LEU	N-CA-CB	-5.76	101.63	110.16
1	W	193	ASN	CA-CB-CG	5.76	118.36	112.60
1	9	24	VAL	O-C-N	-5.76	116.18	121.94
1	1C	159	GLU	CA-C-O	-5.76	114.93	119.66
1	gn	76	GLU	CB-CG-CD	5.76	122.40	112.60
1	gy	59	VAL	CA-CB-CG1	5.76	120.20	110.40
1	gG	74	ASN	CA-C-O	5.76	126.47	119.38
1	gT	213	GLU	CA-CB-CG	-5.76	102.57	114.10
1	h1	87	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	1H	180	GLU	O-C-N	-5.76	116.01	122.12
1	hp	215	MET	CG-SD-CE	-5.76	88.22	100.90
1	hH	36	VAL	N-CA-C	5.76	116.50	110.62
1	1P	21	ASN	OD1-CG-ND2	5.76	128.36	122.60
1	iv	207	PRO	N-CA-C	5.76	121.54	113.53
1	1T	210	THR	CA-C-O	5.76	128.52	121.72
1	ju	87	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	jD	163	ASP	N-CA-C	-5.76	105.00	111.28
1	jR	172	LEU	O-C-N	-5.76	115.42	122.34
1	jX	143	ARG	CA-C-N	5.76	128.32	120.54
1	jX	143	ARG	C-N-CA	5.76	128.32	120.54
1	1Z	18	ARG	CA-C-N	5.76	128.28	120.38
1	1Z	18	ARG	C-N-CA	5.76	128.28	120.38
1	k1	69	LEU	N-CA-C	5.76	117.56	111.28
1	22	16	SER	CA-C-N	5.76	127.04	119.84
1	22	16	SER	C-N-CA	5.76	127.04	119.84
1	ku	96	MET	CA-C-O	5.76	127.84	121.56
1	kx	180	GLU	CB-CA-C	-5.76	99.97	110.63
1	kO	218	CYS	N-CA-C	5.76	119.38	111.54
1	kW	199	LYS	N-CA-C	5.76	117.56	111.28
1	kX	162	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
1	l1	167	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	lq	137	GLY	O-C-N	-5.76	116.00	122.28
1	2n	48	THR	O-C-N	-5.76	115.08	121.53
1	2s	87	HIS	CA-C-O	5.76	127.53	121.19
1	2z	206	GLY	CA-C-N	5.76	126.16	119.47
1	2z	206	GLY	C-N-CA	5.76	126.16	119.47
1	2O	132	ARG	NE-CZ-NH2	-5.76	114.01	119.20
1	3x	62	HIS	CB-CG-CD2	-5.76	123.71	131.20
1	41	189	LEU	O-C-N	-5.76	116.13	122.07
1	43	73	ILE	N-CA-C	5.76	116.54	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	43	193	ASN	CA-CB-CG	-5.76	106.84	112.60
1	4t	30	LYS	O-C-N	-5.76	114.73	122.22
1	4t	228	ALA	N-CA-C	5.76	117.73	110.24
1	58	93	PRO	CA-C-N	5.76	132.88	121.53
1	58	93	PRO	C-N-CA	5.76	132.88	121.53
1	5f	63	GLN	CA-C-N	5.76	127.93	120.44
1	5f	63	GLN	C-N-CA	5.76	127.93	120.44
1	5h	54	THR	N-CA-C	5.76	117.56	111.28
1	5q	176	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	6m	213	GLU	CA-C-N	5.76	127.93	120.44
1	6m	213	GLU	C-N-CA	5.76	127.93	120.44
1	6o	230	VAL	O-C-N	-5.76	116.41	123.09
1	6p	87	HIS	CB-CG-ND1	5.76	131.34	122.70
1	6J	179	GLN	OE1-CD-NE2	5.76	128.36	122.60
1	6V	57	ASN	OD1-CG-ND2	-5.76	116.84	122.60
1	74	209	ALA	CA-C-N	5.76	128.89	120.71
1	74	209	ALA	C-N-CA	5.76	128.89	120.71
1	7X	114	GLN	CA-C-O	5.76	126.66	120.55
1	8s	107	THR	CA-C-O	5.76	126.87	120.82
1	9a	143	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	9g	192	GLN	N-CA-C	5.76	118.51	111.82
1	9u	48	THR	CA-C-N	5.76	127.04	119.84
1	9u	48	THR	C-N-CA	5.76	127.04	119.84
1	a4	20	LEU	N-CA-C	5.76	117.64	111.36
1	aE	19	THR	N-CA-CB	5.76	118.37	110.01
1	bd	114	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	bg	231	LEU	N-CA-CB	5.76	120.30	110.50
1	bB	205	LEU	N-CA-C	5.76	119.41	112.38
1	1a	4	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	c2	18	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	c9	58	THR	N-CA-CB	5.76	119.17	110.30
1	cn	108	THR	N-CA-CB	5.76	119.39	110.80
1	cR	21	ASN	N-CA-CB	5.76	118.59	110.12
1	d0	37	ILE	O-C-N	-5.76	114.53	121.10
1	d1	37	ILE	N-CA-C	5.76	119.27	112.35
1	1k	183	ASN	O-C-N	-5.76	116.13	122.07
1	dU	191	VAL	N-CA-C	-5.76	106.09	111.45
1	dZ	137	GLY	CA-C-N	5.76	128.00	120.28
1	dZ	137	GLY	C-N-CA	5.76	128.00	120.28
1	e4	33	SER	O-C-N	-5.76	116.18	122.06
1	e4	33	SER	CA-C-O	-5.76	113.39	119.50
1	ed	178	SER	O-C-N	-5.76	115.44	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eA	219	GLN	CB-CA-C	5.76	120.62	111.51
1	eP	15	ILE	O-C-N	-5.76	116.41	122.81
1	fc	113	GLU	N-CA-C	5.76	117.36	111.14
1	fo	88	ALA	CA-C-O	5.76	126.75	120.58
1	fO	120	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	1A	26	VAL	CA-C-N	5.76	127.94	120.56
1	1A	26	VAL	C-N-CA	5.76	127.94	120.56
1	w	130	TYR	N-CA-C	5.76	118.30	111.33
1	gd	20	LEU	O-C-N	-5.76	115.87	122.09
1	gi	181	VAL	CA-C-O	-5.76	114.74	120.85
1	gA	104	ILE	CA-CB-CG2	5.76	120.30	110.50
1	1E	51	ASP	CA-C-N	5.76	128.00	120.28
1	1E	51	ASP	C-N-CA	5.76	128.00	120.28
1	gM	72	THR	N-CA-C	5.76	117.56	111.28
1	gU	106	GLY	O-C-N	-5.76	115.31	122.34
1	gY	88	ALA	CA-C-O	-5.76	115.22	121.44
1	gY	88	ALA	N-CA-C	5.76	117.73	110.24
1	h1	162	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
1	hl	87	HIS	CA-C-N	5.76	128.89	120.71
1	hl	87	HIS	C-N-CA	5.76	128.89	120.71
1	hm	87	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	hn	198	CYS	N-CA-C	-5.76	106.59	113.97
1	hD	169	TYR	CA-CB-CG	-5.76	103.53	113.90
1	hQ	48	THR	CA-C-N	5.76	125.62	119.28
1	hQ	48	THR	C-N-CA	5.76	125.62	119.28
1	hQ	102	SER	N-CA-C	5.76	117.56	111.28
1	i0	53	ASN	CA-CB-CG	-5.76	106.84	112.60
1	ia	81	ASP	N-CA-C	5.76	117.64	111.36
1	ij	85	PRO	CA-C-N	5.76	129.16	120.75
1	ij	85	PRO	C-N-CA	5.76	129.16	120.75
1	ir	136	LEU	O-C-N	5.76	128.23	122.12
1	iu	209	ALA	O-C-N	-5.76	116.47	123.10
1	iA	72	THR	CA-CB-OG1	5.76	118.24	109.60
1	iC	179	GLN	CA-C-N	5.76	128.00	120.28
1	iC	179	GLN	C-N-CA	5.76	128.00	120.28
1	iT	93	PRO	CA-C-N	5.76	132.70	121.41
1	iT	93	PRO	C-N-CA	5.76	132.70	121.41
1	iT	178	SER	CA-C-N	5.76	132.54	121.54
1	iT	178	SER	C-N-CA	5.76	132.54	121.54
1	iW	132	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
1	j3	183	ASN	CA-CB-CG	5.76	118.36	112.60
1	j4	101	GLY	N-CA-C	5.76	119.61	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j5	217	ALA	N-CA-C	5.76	117.98	110.43
1	j6	101	GLY	CA-C-O	5.76	126.30	119.50
1	j7	43	LEU	CA-C-O	5.76	125.72	119.15
1	je	181	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	jg	91	ILE	O-C-N	-5.76	116.79	122.67
1	jr	49	PRO	N-CA-CB	5.76	109.30	103.25
1	jG	99	PRO	CA-C-N	5.76	131.21	120.95
1	jG	99	PRO	C-N-CA	5.76	131.21	120.95
1	jJ	85	PRO	CA-C-N	5.76	128.29	120.63
1	jJ	85	PRO	C-N-CA	5.76	128.29	120.63
1	jM	81	ASP	CA-C-N	5.76	128.47	120.29
1	jM	81	ASP	C-N-CA	5.76	128.47	120.29
1	jU	41	SER	CA-CB-OG	-5.76	99.58	111.10
1	20	32	PHE	O-C-N	-5.76	115.35	123.01
1	kd	195	ASN	CA-CB-CG	-5.76	106.84	112.60
1	kg	100	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	kg	220	GLY	N-CA-C	5.76	121.52	111.78
1	kk	50	GLN	O-C-N	-5.76	116.14	122.07
1	kt	150	ILE	O-C-N	-5.76	115.29	121.80
1	kz	113	GLU	CA-C-N	5.76	128.32	120.54
1	kz	113	GLU	C-N-CA	5.76	128.32	120.54
1	kS	19	THR	CA-C-N	5.76	127.93	120.44
1	kS	19	THR	C-N-CA	5.76	127.93	120.44
1	25	75	GLU	O-C-N	-5.76	116.01	122.12
1	25	167	ARG	CA-C-O	5.76	126.53	120.42
1	26	230	VAL	O-C-N	5.76	128.55	122.62
1	li	153	ILE	CA-C-O	-5.76	115.07	121.23
1	lC	21	ASN	CA-C-N	5.76	128.00	120.28
1	lC	21	ASN	C-N-CA	5.76	128.00	120.28
1	lE	173	ARG	N-CA-CB	5.76	118.59	110.12
1	2t	200	THR	CA-CB-OG1	5.76	118.24	109.60
1	2w	183	ASN	CA-CB-CG	-5.76	106.84	112.60
1	2y	185	MET	N-CA-CB	5.76	118.36	110.01
1	2G	139	ASN	N-CA-C	5.76	118.33	111.71
1	2J	1	PRO	N-CA-CB	5.76	109.34	103.00
1	2Q	165	VAL	N-CA-CB	5.76	117.67	110.47
1	2Z	51	ASP	CA-C-N	5.76	128.47	120.29
1	2Z	51	ASP	C-N-CA	5.76	128.47	120.29
1	35	92	GLU	CA-C-O	-5.76	114.70	120.63
1	3f	168	PHE	N-CA-CB	-5.76	101.65	110.12
1	3n	7	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	46	23	TRP	CA-C-N	5.76	128.60	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	46	23	TRP	C-N-CA	5.76	128.60	120.42
1	49	168	PHE	CA-CB-CG	5.76	119.56	113.80
1	4l	191	VAL	N-CA-C	-5.76	107.37	112.90
1	4O	141	ILE	CA-C-O	-5.76	115.12	121.29
1	4R	40	PHE	CB-CA-C	-5.76	101.23	110.79
1	4X	11	VAL	O-C-N	-5.76	116.85	123.07
1	57	16	SER	O-C-N	-5.76	116.41	121.31
1	58	53	ASN	CA-CB-CG	-5.76	106.84	112.60
1	58	84	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	5b	89	GLY	CA-C-N	5.76	126.09	119.93
1	5b	89	GLY	C-N-CA	5.76	126.09	119.93
1	5n	2	ILE	CA-C-O	5.76	128.34	121.02
1	5o	79	GLU	CA-C-N	5.76	128.00	120.28
1	5o	79	GLU	C-N-CA	5.76	128.00	120.28
1	5t	146	SER	N-CA-C	5.76	122.55	109.81
1	5B	129	ILE	CA-C-O	-5.76	114.74	120.85
1	5Q	76	GLU	O-C-N	-5.76	115.58	122.15
1	6b	104	ILE	N-CA-C	5.76	118.25	111.05
1	6d	86	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	6d	191	VAL	N-CA-CB	-5.76	105.65	112.39
1	6k	114	GLN	CA-C-O	-5.76	114.77	120.70
1	6s	48	THR	CA-CB-OG1	5.76	118.24	109.60
1	6O	226	HIS	ND1-CE1-NE2	5.76	114.16	108.40
1	6U	114	GLN	CA-C-N	5.76	128.03	120.60
1	6U	114	GLN	C-N-CA	5.76	128.03	120.60
1	6W	159	GLU	O-C-N	-5.76	116.30	121.31
1	76	75	GLU	N-CA-C	5.76	117.56	111.28
1	78	139	ASN	CB-CG-ND2	5.76	125.04	116.40
1	7t	144	MET	CA-C-N	5.76	128.47	120.29
1	7t	144	MET	C-N-CA	5.76	128.47	120.29
1	7x	152	ASP	O-C-N	-5.76	114.51	122.46
1	7B	120	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	82	136	LEU	N-CA-C	5.76	117.56	111.28
1	82	226	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	89	2	ILE	CA-C-O	-5.76	114.45	121.13
1	8f	53	ASN	N-CA-C	5.76	117.56	111.28
1	8r	197	ASP	N-CA-C	5.76	117.24	111.07
1	8x	198	CYS	O-C-N	-5.76	116.01	122.12
1	8B	75	GLU	N-CA-C	5.76	117.23	111.07
1	8F	117	TRP	CA-C-O	5.76	126.66	120.55
1	8J	182	LYS	N-CA-C	5.76	117.56	111.28
1	8W	51	ASP	CA-C-N	5.76	128.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	51	ASP	C-N-CA	5.76	128.28	120.44
1	8Z	50	GLN	O-C-N	-5.76	116.01	122.12
1	8Z	216	THR	CA-CB-OG1	5.76	118.24	109.60
1	9M	87	HIS	CA-CB-CG	-5.76	108.04	113.80
1	9Q	203	LYS	CA-C-N	5.76	127.93	120.44
1	9Q	203	LYS	C-N-CA	5.76	127.93	120.44
1	Z	101	GLY	O-C-N	-5.76	116.13	122.24
1	ao	28	GLU	CB-CG-CD	-5.76	102.81	112.60
1	aD	27	VAL	N-CA-C	5.76	115.95	110.42
1	aL	210	THR	N-CA-CB	5.76	119.14	109.92
1	aP	5	ASN	N-CA-CB	-5.76	102.29	111.62
1	17	19	THR	OG1-CB-CG2	-5.76	97.78	109.30
1	br	150	ILE	CB-CA-C	5.76	124.85	111.77
1	bv	20	LEU	O-C-N	-5.76	116.10	122.09
1	bx	64	ALA	N-CA-C	5.76	117.64	111.36
1	bA	23	TRP	CA-C-N	5.76	127.82	120.56
1	bA	23	TRP	C-N-CA	5.76	127.82	120.56
1	bF	16	SER	N-CA-C	5.76	116.96	109.64
1	bG	66	MET	CA-C-N	5.76	128.00	120.28
1	bG	66	MET	C-N-CA	5.76	128.00	120.28
1	bL	89	GLY	CA-C-N	5.76	127.04	119.84
1	bL	89	GLY	C-N-CA	5.76	127.04	119.84
1	c5	5	ASN	CA-CB-CG	5.76	118.36	112.60
1	c9	212	GLU	N-CA-C	5.76	117.23	111.07
1	cb	102	SER	CA-C-N	5.76	128.28	120.44
1	cb	102	SER	C-N-CA	5.76	128.28	120.44
1	cy	218	CYS	CA-C-N	5.76	128.00	120.28
1	cy	218	CYS	C-N-CA	5.76	128.00	120.28
1	cU	154	ARG	NE-CZ-NH2	5.76	124.39	119.20
1	cV	71	GLU	N-CA-C	5.76	117.56	111.28
1	1i	97	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	d7	130	TYR	CA-C-N	5.76	128.00	120.28
1	d7	130	TYR	C-N-CA	5.76	128.00	120.28
1	dq	68	MET	O-C-N	-5.76	116.14	122.07
1	dz	88	ALA	CB-CA-C	-5.76	99.62	110.16
1	dz	212	GLU	N-CA-C	5.76	118.02	111.11
1	dO	177	ALA	N-CA-C	5.76	118.19	110.35
1	e1	74	ASN	CA-C-N	5.76	128.47	120.29
1	e1	74	ASN	C-N-CA	5.76	128.47	120.29
1	e2	161	PHE	CA-C-N	5.76	128.27	120.38
1	e2	161	PHE	C-N-CA	5.76	128.27	120.38
1	ef	114	GLN	OE1-CD-NE2	-5.76	116.84	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ef	173	ARG	N-CA-C	5.76	117.56	111.28
1	em	57	ASN	CB-CG-ND2	5.76	125.04	116.40
1	ep	163	ASP	CA-C-N	5.76	128.32	120.54
1	ep	163	ASP	C-N-CA	5.76	128.32	120.54
1	eu	62	HIS	CA-C-N	5.76	128.00	120.28
1	eu	62	HIS	C-N-CA	5.76	128.00	120.28
1	eL	40	PHE	CA-CB-CG	5.76	119.56	113.80
1	fe	142	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	fl	126	VAL	CA-C-N	5.76	126.22	119.94
1	fl	126	VAL	C-N-CA	5.76	126.22	119.94
1	fn	87	HIS	O-C-N	-5.76	115.77	122.86
1	fo	87	HIS	CB-CG-CD2	5.76	138.69	131.20
1	fr	133	TRP	CE3-CZ3-CH2	-5.76	113.61	121.10
1	fG	91	ILE	N-CA-CB	5.76	118.72	111.46
1	fQ	65	ALA	O-C-N	5.76	128.72	122.15
1	1A	87	HIS	CA-CB-CG	5.76	119.56	113.80
1	m	103	ASP	O-C-N	-5.76	114.71	122.43
1	y	141	ILE	CA-C-N	5.76	128.35	120.46
1	y	141	ILE	C-N-CA	5.76	128.35	120.46
1	H	198	CYS	CA-C-N	5.76	128.32	120.54
1	H	198	CYS	C-N-CA	5.76	128.32	120.54
1	P	131	LYS	N-CA-C	5.76	118.30	111.33
1	9	59	VAL	N-CA-C	5.76	121.32	109.34
1	gb	67	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	gi	62	HIS	ND1-CG-CD2	5.76	111.86	106.10
1	gl	38	PRO	CA-CB-CG	-5.76	93.56	104.50
1	go	55	MET	CG-SD-CE	-5.76	88.23	100.90
1	go	90	PRO	N-CA-CB	-5.76	98.09	103.27
1	gr	190	LEU	N-CA-C	5.76	117.56	111.28
1	gs	170	LYS	CA-C-N	5.76	128.27	120.38
1	gs	170	LYS	C-N-CA	5.76	128.27	120.38
1	gu	126	VAL	CB-CA-C	-5.76	104.49	112.04
1	gT	191	VAL	N-CA-C	5.76	116.54	110.72
1	gU	120	HIS	ND1-CE1-NE2	5.76	114.16	108.40
1	gX	206	GLY	O-C-N	-5.76	116.01	121.77
1	h1	224	PRO	CA-C-N	5.76	132.70	121.41
1	h1	224	PRO	C-N-CA	5.76	132.70	121.41
1	h8	12	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	hd	11	VAL	O-C-N	-5.76	117.09	123.20
1	hd	195	ASN	O-C-N	-5.76	116.98	121.47
1	hg	182	LYS	CA-C-N	5.76	128.00	120.28
1	hg	182	LYS	C-N-CA	5.76	128.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hl	197	ASP	CA-CB-CG	5.76	118.36	112.60
1	hP	32	PHE	CA-CB-CG	-5.76	108.04	113.80
1	hS	26	VAL	N-CA-CB	5.76	117.67	110.47
1	1M	39	MET	CG-SD-CE	-5.76	88.23	100.90
1	i0	111	LEU	CA-C-O	5.76	126.59	119.97
1	1P	203	LYS	CA-C-N	5.76	127.93	120.44
1	1P	203	LYS	C-N-CA	5.76	127.93	120.44
1	iz	168	PHE	CA-CB-CG	5.76	119.56	113.80
1	iL	191	VAL	CB-CA-C	-5.76	104.27	112.22
1	j9	122	PRO	N-CD-CG	5.76	110.71	103.80
1	je	78	ALA	CA-C-O	5.76	126.59	119.97
1	jp	10	MET	CG-SD-CE	5.76	113.57	100.90
1	jx	116	GLY	CA-C-O	5.76	126.77	120.66
1	jM	227	LYS	N-CA-C	5.76	118.13	110.53
1	k1	12	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	kl	87	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	ko	26	VAL	CA-C-O	5.76	126.55	119.58
1	ks	27	VAL	CA-C-N	5.76	128.57	120.28
1	ks	27	VAL	C-N-CA	5.76	128.57	120.28
1	kw	12	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	kw	224	PRO	CA-N-CD	-5.76	103.94	112.00
1	kz	23	TRP	CE2-CD2-CE3	-5.76	113.04	118.80
1	kF	110	THR	CA-CB-OG1	5.76	118.24	109.60
1	kI	42	ALA	CA-C-O	5.76	126.61	120.10
1	l3	194	ALA	CB-CA-C	5.76	119.93	109.62
1	la	87	HIS	N-CA-C	5.76	118.41	110.35
1	lo	203	LYS	N-CA-CB	5.76	118.68	110.16
1	lv	52	LEU	CA-C-N	5.76	128.47	120.29
1	lv	52	LEU	C-N-CA	5.76	128.47	120.29
1	lw	203	LYS	N-CA-C	5.76	117.64	111.36
1	lw	207	PRO	CA-C-N	5.76	132.81	122.38
1	lw	207	PRO	C-N-CA	5.76	132.81	122.38
1	ly	44	SER	N-CA-CB	5.76	118.82	110.47
1	ly	70	LYS	N-CA-C	5.76	117.64	111.36
1	lD	59	VAL	CA-C-O	5.76	127.52	121.59
1	lJ	123	PRO	N-CA-CB	-5.76	97.98	103.39
1	lR	136	LEU	O-C-N	-5.76	115.58	122.15
1	2z	202	LEU	N-CA-C	5.76	118.50	111.82
1	2I	189	LEU	CA-C-N	5.76	128.00	120.28
1	2I	189	LEU	C-N-CA	5.76	128.00	120.28
1	31	145	TYR	O-C-N	-5.76	114.87	122.42
1	34	163	ASP	CA-CB-CG	-5.76	106.84	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	36	46	GLY	CA-C-N	5.76	129.54	121.02
1	36	46	GLY	C-N-CA	5.76	129.54	121.02
1	3b	200	THR	N-CA-CB	5.76	118.36	110.01
1	3z	82	ARG	NE-CZ-NH2	-5.76	114.02	119.20
1	3A	11	VAL	CA-C-O	5.76	126.44	120.39
1	3N	142	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	3Q	109	SER	N-CA-CB	5.76	118.53	109.83
1	3Y	96	MET	N-CA-C	5.76	118.71	110.24
1	41	227	LYS	CG-CD-CE	5.76	124.55	111.30
1	47	140	LYS	CA-C-N	5.76	128.60	120.42
1	47	140	LYS	C-N-CA	5.76	128.60	120.42
1	47	166	ASP	CA-CB-CG	5.76	118.36	112.60
1	4q	158	LYS	N-CA-C	-5.76	104.44	113.02
1	4v	135	ILE	N-CA-C	5.76	116.50	110.62
1	4x	62	HIS	CB-CG-CD2	-5.76	123.71	131.20
1	4D	213	GLU	CA-C-N	5.76	128.00	120.28
1	4D	213	GLU	C-N-CA	5.76	128.00	120.28
1	4M	150	ILE	CA-C-N	5.76	130.34	120.72
1	4M	150	ILE	C-N-CA	5.76	130.34	120.72
1	4P	77	ALA	O-C-N	-5.76	115.58	122.15
1	4U	37	ILE	N-CA-C	5.76	119.87	112.67
1	4V	195	ASN	CA-C-N	5.76	127.04	119.84
1	4V	195	ASN	C-N-CA	5.76	127.04	119.84
1	4X	99	PRO	N-CA-C	5.76	120.12	111.14
1	5d	135	ILE	N-CA-C	5.76	115.95	110.42
1	5p	188	THR	N-CA-CB	5.76	119.12	110.19
1	5O	123	PRO	N-CA-CB	5.76	108.44	103.31
1	5O	201	ILE	O-C-N	-5.76	116.28	121.87
1	5O	226	HIS	ND1-CE1-NE2	5.76	114.16	108.40
1	5U	115	ILE	N-CA-C	5.76	116.54	110.72
1	60	100	ARG	CA-C-N	5.76	127.34	120.14
1	60	100	ARG	C-N-CA	5.76	127.34	120.14
1	68	43	LEU	N-CA-C	-5.76	105.75	112.89
1	69	10	MET	N-CA-CB	5.76	118.50	110.26
1	6h	164	TYR	N-CA-CB	5.76	118.36	110.01
1	6B	76	GLU	CA-C-N	5.76	128.32	120.54
1	6B	76	GLU	C-N-CA	5.76	128.32	120.54
1	6M	33	SER	N-CA-CB	-5.76	105.86	111.27
1	70	172	LEU	N-CA-C	5.76	118.30	111.33
1	78	72	THR	CB-CA-C	-5.76	101.80	110.90
1	7l	132	ARG	CA-C-N	5.76	127.93	120.44
1	7l	132	ARG	C-N-CA	5.76	127.93	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7n	64	ALA	O-C-N	-5.76	115.19	122.27
1	7r	24	VAL	N-CA-C	5.76	118.25	111.05
1	7v	170	LYS	CA-C-N	5.76	128.00	120.28
1	7v	170	LYS	C-N-CA	5.76	128.00	120.28
1	7x	82	ARG	CA-C-O	5.76	126.87	120.82
1	7F	170	LYS	O-C-N	-5.76	116.10	122.09
1	7K	125	PRO	CA-C-N	5.76	128.60	120.42
1	7K	125	PRO	C-N-CA	5.76	128.60	120.42
1	7M	179	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	7W	67	GLN	N-CA-CB	5.76	118.68	110.16
1	7X	213	GLU	N-CA-C	5.76	117.23	111.07
1	8w	136	LEU	N-CA-C	5.76	118.02	111.11
1	8D	21	ASN	OD1-CG-ND2	-5.76	116.84	122.60
1	8D	74	ASN	CA-C-N	5.76	128.47	120.29
1	8D	74	ASN	C-N-CA	5.76	128.47	120.29
1	91	96	MET	CB-CA-C	5.76	120.35	110.79
1	9g	168	PHE	O-C-N	-5.76	114.74	122.23
1	9s	203	LYS	CA-C-N	5.76	128.47	120.29
1	9s	203	LYS	C-N-CA	5.76	128.47	120.29
1	9t	89	GLY	CA-C-N	5.76	127.04	119.84
1	9t	89	GLY	C-N-CA	5.76	127.04	119.84
1	9y	48	THR	N-CA-C	-5.76	102.86	110.40
1	9I	111	LEU	N-CA-C	5.76	117.64	111.36
1	9K	161	PHE	N-CA-C	-5.76	106.60	113.97
1	9N	153	ILE	N-CA-CB	5.76	122.17	110.82
1	9P	41	SER	CA-C-O	5.76	127.06	120.90
1	Y	142	VAL	CA-C-O	5.76	126.94	120.95
1	9Y	17	PRO	CB-CA-C	5.76	120.09	111.68
1	Z	114	GLN	O-C-N	5.76	128.31	122.09
1	a0	42	ALA	CA-C-O	5.76	126.53	120.42
1	ad	228	ALA	O-C-N	-5.76	117.03	123.48
1	ah	73	ILE	N-CA-C	-5.76	104.23	112.35
1	ar	140	LYS	N-CA-C	5.76	117.23	111.07
1	aH	173	ARG	N-CA-CB	5.76	118.36	110.01
1	14	198	CYS	CA-C-N	5.76	130.34	120.72
1	14	198	CYS	C-N-CA	5.76	130.34	120.72
1	b2	11	VAL	N-CA-C	5.76	116.68	107.98
1	bv	97	ARG	CB-CA-C	5.76	119.50	109.65
1	bZ	212	GLU	N-CA-C	5.76	117.56	111.28
1	1d	133	TRP	CB-CG-CD1	5.76	135.54	126.90
1	cq	23	TRP	N-CA-C	5.76	118.02	111.11
1	cE	226	HIS	CB-CG-CD2	-5.76	123.71	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cO	130	TYR	CA-C-N	5.76	128.00	120.28
1	cO	130	TYR	C-N-CA	5.76	128.00	120.28
1	da	115	ILE	CA-C-O	5.76	126.47	120.25
1	dk	126	VAL	CA-C-O	-5.76	115.06	121.05
1	do	217	ALA	CA-C-N	5.76	132.54	121.54
1	do	217	ALA	C-N-CA	5.76	132.54	121.54
1	dC	82	ARG	O-C-N	-5.76	115.58	122.15
1	dJ	135	ILE	CA-C-O	-5.76	114.96	120.95
1	dP	163	ASP	CA-C-O	5.76	126.61	120.10
1	dX	63	GLN	O-C-N	-5.76	114.61	122.33
1	e8	219	GLN	CB-CG-CD	5.76	122.39	112.60
1	e9	26	VAL	N-CA-C	5.76	116.41	110.36
1	ee	18	ARG	NE-CZ-NH2	-5.76	114.02	119.20
1	ee	107	THR	CA-CB-CG2	5.76	120.29	110.50
1	el	178	SER	CA-C-N	5.76	127.93	120.44
1	el	178	SER	C-N-CA	5.76	127.93	120.44
1	el	179	GLN	CA-C-N	5.76	128.32	120.54
1	el	179	GLN	C-N-CA	5.76	128.32	120.54
1	et	87	HIS	CB-CG-CD2	-5.76	123.71	131.20
1	eF	162	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	eQ	15	ILE	N-CA-C	5.76	117.14	109.37
1	1u	97	ARG	N-CA-C	5.76	118.80	110.28
1	fe	126	VAL	N-CA-C	5.76	115.95	110.42
1	fl	142	VAL	O-C-N	5.76	127.53	121.89
1	1z	110	THR	N-CA-CB	5.76	119.68	110.46
1	fQ	168	PHE	CA-CB-CG	-5.76	108.04	113.80
1	fU	43	LEU	N-CA-C	-5.76	106.30	113.15
1	fU	226	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	g1	198	CYS	N-CA-C	5.76	118.50	111.82
1	g7	39	MET	CA-C-O	5.76	126.66	120.55
1	b	58	THR	N-CA-C	5.76	117.56	111.28
1	2	93	PRO	N-CA-C	5.76	124.34	112.47
1	F	126	VAL	CA-C-O	5.76	126.73	120.57
1	gk	192	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	gG	12	HIS	N-CA-C	5.76	118.80	110.28
1	gW	2	ILE	CA-C-N	5.76	129.18	120.77
1	gW	2	ILE	C-N-CA	5.76	129.18	120.77
1	gW	214	MET	N-CA-C	5.76	117.23	111.07
1	ht	219	GLN	CA-C-O	5.76	127.24	120.96
1	hD	26	VAL	CA-CB-CG1	5.76	120.19	110.40
1	hJ	165	VAL	CA-CB-CG1	5.76	120.19	110.40
1	ic	180	GLU	CB-CG-CD	5.76	122.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	176	GLN	CA-C-N	5.76	132.54	121.54
1	1O	176	GLN	C-N-CA	5.76	132.54	121.54
1	1O	195	ASN	N-CA-C	5.76	118.03	110.08
1	ij	186	THR	CA-CB-OG1	5.76	118.24	109.60
1	im	145	TYR	N-CA-C	-5.76	104.92	111.14
1	1P	73	ILE	N-CA-CB	5.76	121.19	110.77
1	ir	74	ASN	N-CA-C	5.76	118.02	111.11
1	iv	205	LEU	CA-C-N	5.76	130.91	121.87
1	iv	205	LEU	C-N-CA	5.76	130.91	121.87
1	iJ	56	LEU	N-CA-C	5.76	117.64	111.36
1	j7	64	ALA	N-CA-C	5.76	117.64	111.36
1	ji	187	GLU	O-C-N	-5.76	115.14	122.34
1	jJ	125	PRO	N-CA-CB	-5.76	98.53	102.73
1	k4	201	ILE	N-CA-CB	-5.76	104.12	110.51
1	kR	51	ASP	CA-C-N	5.76	128.27	120.44
1	kR	51	ASP	C-N-CA	5.76	128.27	120.44
1	25	94	GLY	N-CA-C	5.76	123.02	115.36
1	l2	92	GLU	N-CA-C	5.76	116.22	109.60
1	lw	174	ALA	CA-C-O	5.76	126.46	119.49
1	lw	213	GLU	N-CA-C	5.76	117.56	111.28
1	2g	53	ASN	N-CA-C	5.76	118.50	111.82
1	2p	87	HIS	CA-C-O	5.76	128.25	121.40
1	2r	173	ARG	CG-CD-NE	-5.76	99.33	112.00
1	2P	82	ARG	N-CA-CB	-5.76	101.66	110.12
1	3g	212	GLU	CA-C-N	5.76	128.47	120.29
1	3g	212	GLU	C-N-CA	5.76	128.47	120.29
1	3p	193	ASN	CA-C-N	5.76	129.28	120.82
1	3p	193	ASN	C-N-CA	5.76	129.28	120.82
1	3I	219	GLN	N-CA-CB	5.76	119.87	110.37
1	4f	216	THR	N-CA-C	-5.76	105.75	112.89
1	4h	102	SER	N-CA-CB	5.76	118.58	110.12
1	4O	86	VAL	CA-CB-CG1	5.76	120.19	110.40
1	55	42	ALA	N-CA-C	5.76	117.64	111.36
1	5c	66	MET	N-CA-C	5.76	117.56	111.28
1	5f	25	LYS	CA-C-O	-5.76	114.41	120.63
1	5j	223	GLY	CA-C-N	5.76	127.04	119.84
1	5j	223	GLY	C-N-CA	5.76	127.04	119.84
1	64	50	GLN	CA-C-O	5.76	126.65	120.55
1	6a	206	GLY	CA-C-O	-5.76	113.29	121.52
1	6y	16	SER	CA-C-N	5.76	125.13	118.85
1	6y	16	SER	C-N-CA	5.76	125.13	118.85
1	6A	141	ILE	CA-C-O	5.76	127.27	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7c	25	LYS	CA-C-O	-5.76	114.77	120.82
1	7j	34	PRO	CA-C-N	5.76	129.06	120.31
1	7j	34	PRO	C-N-CA	5.76	129.06	120.31
1	7k	112	GLN	N-CA-C	5.76	117.56	111.28
1	7E	105	ALA	O-C-N	-5.76	114.42	122.37
1	7G	98	GLU	N-CA-C	5.76	117.77	109.48
1	7H	216	THR	CA-CB-OG1	5.76	118.24	109.60
1	7J	170	LYS	N-CA-C	-5.76	104.92	111.14
1	7M	78	ALA	CA-C-N	5.76	128.47	120.29
1	7M	78	ALA	C-N-CA	5.76	128.47	120.29
1	88	4	GLN	CA-C-N	5.76	129.44	120.75
1	88	4	GLN	C-N-CA	5.76	129.44	120.75
1	8o	53	ASN	N-CA-C	5.76	117.56	111.28
1	9c	12	HIS	CB-CG-CD2	-5.76	123.72	131.20
1	9x	92	GLU	N-CA-CB	-5.76	102.27	110.04
1	9L	15	ILE	N-CA-C	5.76	121.32	109.34
1	Y	44	SER	O-C-N	-5.76	115.43	122.34
1	ac	226	HIS	CB-CG-CD2	-5.76	123.72	131.20
1	ag	166	ASP	CA-C-N	5.76	129.06	120.31
1	ag	166	ASP	C-N-CA	5.76	129.06	120.31
1	aK	68	MET	N-CA-C	5.76	118.02	111.11
1	aK	119	THR	N-CA-C	-5.76	105.45	112.88
1	15	133	TRP	N-CA-C	5.76	118.33	111.71
1	b4	100	ARG	NE-CZ-NH2	-5.76	114.02	119.20
1	c0	42	ALA	O-C-N	-5.76	116.02	122.12
1	c1	151	LEU	CA-C-N	5.76	128.27	120.44
1	c1	151	LEU	C-N-CA	5.76	128.27	120.44
1	c8	156	GLY	N-CA-C	5.76	118.91	112.00
1	co	12	HIS	CG-CD2-NE2	5.76	112.96	107.20
1	1j	222	GLY	N-CA-C	5.76	122.28	111.80
1	eb	19	THR	CA-CB-CG2	5.76	120.29	110.50
1	en	2	ILE	N-CA-C	-5.76	97.57	107.24
1	eT	115	ILE	CA-C-N	5.76	126.33	119.94
1	eT	115	ILE	C-N-CA	5.76	126.33	119.94
1	fA	45	GLU	O-C-N	-5.76	115.64	122.20
1	fA	78	ALA	CA-C-O	5.76	126.85	120.63
1	fB	154	ARG	CA-C-N	5.76	129.98	120.94
1	fB	154	ARG	C-N-CA	5.76	129.98	120.94
1	fC	33	SER	CA-C-N	5.76	126.15	119.47
1	fC	33	SER	C-N-CA	5.76	126.15	119.47
1	fR	225	GLY	CA-C-N	5.76	128.47	120.29
1	fR	225	GLY	C-N-CA	5.76	128.47	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	73	ILE	N-CA-CB	5.76	118.37	110.54
1	i	166	ASP	N-CA-CB	5.76	118.32	109.91
1	u	193	ASN	CA-CB-CG	-5.76	106.84	112.60
1	B	154	ARG	CD-NE-CZ	5.76	132.46	124.40
1	3	226	HIS	CE1-NE2-CD2	-5.76	103.24	109.00
1	J	103	ASP	CA-CB-CG	-5.76	106.84	112.60
1	gj	139	ASN	CA-CB-CG	-5.76	106.84	112.60
1	go	103	ASP	N-CA-CB	5.76	118.42	110.07
1	gx	148	THR	CA-CB-OG1	5.76	118.23	109.60
1	1G	227	LYS	O-C-N	-5.76	116.67	123.41
1	he	57	ASN	OD1-CG-ND2	-5.76	116.84	122.60
1	he	143	ARG	N-CA-C	5.76	117.56	111.28
1	hv	39	MET	O-C-N	-5.76	115.59	122.15
1	hB	27	VAL	CA-C-O	5.76	127.04	121.05
1	hQ	46	GLY	CA-C-N	5.76	129.54	121.02
1	hQ	46	GLY	C-N-CA	5.76	129.54	121.02
1	1M	202	LEU	O-C-N	-5.76	115.48	122.22
1	i0	208	ALA	N-CA-C	-5.76	104.47	112.30
1	im	201	ILE	CA-C-N	5.76	127.99	120.28
1	im	201	ILE	C-N-CA	5.76	127.99	120.28
1	in	98	GLU	N-CA-CB	5.76	118.52	110.11
1	in	103	ASP	CA-C-N	5.76	129.74	120.30
1	in	103	ASP	C-N-CA	5.76	129.74	120.30
1	it	133	TRP	CD2-CE2-CZ2	-5.76	116.64	122.40
1	iy	117	TRP	O-C-N	-5.76	116.14	122.07
1	iC	2	ILE	CA-C-O	5.76	126.43	120.39
1	iK	220	GLY	CA-C-O	5.76	125.40	119.01
1	j7	162	ARG	CA-CB-CG	5.76	125.61	114.10
1	1U	33	SER	O-C-N	-5.76	115.50	121.60
1	jh	200	THR	N-CA-CB	5.76	118.58	110.12
1	jG	84	HIS	CA-C-N	5.76	127.04	119.84
1	jG	84	HIS	C-N-CA	5.76	127.04	119.84
1	jO	175	GLU	CB-CA-C	5.76	119.28	109.72
1	jP	77	ALA	N-CA-C	5.76	117.55	111.28
1	jU	166	ASP	O-C-N	-5.76	116.04	122.03
1	20	19	THR	CA-C-O	5.76	126.59	119.97
1	ka	92	GLU	CA-C-N	5.76	125.77	119.90
1	ka	92	GLU	C-N-CA	5.76	125.77	119.90
1	ks	43	LEU	CA-C-O	5.76	126.45	119.31
1	kH	21	ASN	N-CA-C	5.76	117.23	111.07
1	kN	229	ARG	NE-CZ-NH2	-5.76	114.02	119.20
1	l5	182	LYS	CB-CA-C	5.76	119.92	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	9	GLN	CA-C-N	5.76	128.88	120.71
1	l8	9	GLN	C-N-CA	5.76	128.88	120.71
1	l9	62	HIS	CA-CB-CG	-5.76	108.04	113.80
1	lb	129	ILE	N-CA-C	5.76	115.95	110.42
1	ln	170	LYS	N-CA-C	-5.76	105.09	111.36
1	2d	190	LEU	CA-C-N	5.76	128.35	120.46
1	2d	190	LEU	C-N-CA	5.76	128.35	120.46
1	38	15	ILE	N-CA-C	5.76	116.70	108.93
1	3a	78	ALA	N-CA-CB	-5.76	101.66	110.12
1	3n	54	THR	CA-C-N	5.76	127.92	120.44
1	3n	54	THR	C-N-CA	5.76	127.92	120.44
1	3r	25	LYS	N-CA-C	5.76	117.23	111.07
1	3s	37	ILE	CA-C-N	5.76	125.29	119.19
1	3s	37	ILE	C-N-CA	5.76	125.29	119.19
1	3u	184	TRP	CB-CG-CD1	5.76	135.53	126.90
1	3C	197	ASP	N-CA-C	-5.76	104.61	111.69
1	3W	50	GLN	O-C-N	-5.76	116.14	122.07
1	3W	90	PRO	CA-C-N	5.76	128.59	120.42
1	3W	90	PRO	C-N-CA	5.76	128.59	120.42
1	3X	63	GLN	OE1-CD-NE2	-5.76	116.84	122.60
1	4j	184	TRP	CA-C-N	5.76	127.92	120.44
1	4j	184	TRP	C-N-CA	5.76	127.92	120.44
1	4p	103	ASP	CA-CB-CG	5.76	118.36	112.60
1	4q	35	GLU	N-CA-C	5.76	120.04	113.19
1	4O	228	ALA	O-C-N	-5.76	116.30	123.04
1	4S	184	TRP	CE2-CD2-CE3	5.76	124.56	118.80
1	4V	201	ILE	CB-CA-C	-5.76	104.28	112.22
1	4W	70	LYS	N-CA-C	5.76	118.33	111.71
1	52	97	ARG	NH1-CZ-NH2	-5.76	111.82	119.30
1	5h	124	ILE	N-CA-C	5.76	112.80	107.56
1	5p	52	LEU	CA-C-O	5.76	126.65	120.55
1	5t	126	VAL	N-CA-C	5.76	117.18	110.62
1	5A	19	THR	O-C-N	-5.76	115.59	122.15
1	5C	163	ASP	CA-CB-CG	5.76	118.36	112.60
1	5I	122	PRO	CA-C-N	5.76	125.71	119.78
1	5I	122	PRO	C-N-CA	5.76	125.71	119.78
1	62	136	LEU	CA-C-N	5.76	126.22	119.94
1	62	136	LEU	C-N-CA	5.76	126.22	119.94
1	6a	16	SER	CA-C-N	5.76	125.88	119.32
1	6a	16	SER	C-N-CA	5.76	125.88	119.32
1	6u	48	THR	CA-CB-OG1	5.76	118.23	109.60
1	6v	24	VAL	CA-C-N	5.76	128.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6v	24	VAL	C-N-CA	5.76	128.00	120.28
1	6E	110	THR	CA-C-N	5.76	127.99	120.28
1	6E	110	THR	C-N-CA	5.76	127.99	120.28
1	6S	154	ARG	N-CA-C	5.76	117.82	109.07
1	74	54	THR	CA-CB-CG2	5.76	120.29	110.50
1	74	223	GLY	O-C-N	-5.76	116.01	121.77
1	7b	133	TRP	CA-CB-CG	5.76	124.54	113.60
1	7c	23	TRP	O-C-N	-5.76	116.02	122.12
1	7c	124	ILE	CA-C-O	-5.76	114.09	119.62
1	7v	212	GLU	O-C-N	-5.76	115.59	122.15
1	7K	204	ALA	N-CA-C	5.76	117.56	111.28
1	7Z	98	GLU	CA-C-O	-5.76	113.79	119.49
1	83	180	GLU	N-CA-C	5.76	118.30	111.33
1	8f	128	GLU	CB-CG-CD	5.76	122.38	112.60
1	8m	86	VAL	CA-C-N	5.76	128.88	120.71
1	8m	86	VAL	C-N-CA	5.76	128.88	120.71
1	8y	168	PHE	N-CA-C	5.76	117.23	111.07
1	8A	191	VAL	CA-CB-CG2	-5.76	100.61	110.40
1	8P	177	ALA	N-CA-C	5.76	117.72	110.24
1	8Z	32	PHE	N-CA-C	-5.76	105.84	112.92
1	96	177	ALA	N-CA-C	5.76	123.06	110.80
1	9e	190	LEU	CA-C-O	5.76	127.06	120.90
1	9s	74	ASN	N-CA-C	5.76	118.02	111.11
1	9u	228	ALA	N-CA-C	5.76	119.30	110.20
1	9z	185	MET	CA-C-N	5.76	128.57	120.28
1	9z	185	MET	C-N-CA	5.76	128.57	120.28
1	9A	202	LEU	O-C-N	5.76	128.22	122.12
1	9E	2	ILE	N-CA-C	-5.76	100.18	108.53
1	9M	12	HIS	O-C-N	-5.76	116.45	123.19
1	ab	23	TRP	N-CA-C	5.76	117.56	111.28
1	af	185	MET	N-CA-C	5.76	117.56	111.28
1	al	184	TRP	CB-CG-CD2	5.76	134.86	126.80
1	aM	164	TYR	CA-C-N	5.76	128.35	120.46
1	aM	164	TYR	C-N-CA	5.76	128.35	120.46
1	16	70	LYS	CA-C-N	5.76	127.99	120.28
1	16	70	LYS	C-N-CA	5.76	127.99	120.28
1	bf	186	THR	CA-C-O	5.76	126.65	120.55
1	bq	69	LEU	N-CA-C	5.76	120.87	111.37
1	bB	133	TRP	CA-C-N	5.76	127.81	120.56
1	bB	133	TRP	C-N-CA	5.76	127.81	120.56
1	bE	101	GLY	O-C-N	-5.76	116.66	122.19
1	cg	56	LEU	O-C-N	-5.76	116.02	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	75	GLU	N-CA-C	5.76	117.36	111.14
1	cC	43	LEU	O-C-N	-5.76	115.19	122.27
1	cR	41	SER	N-CA-C	5.76	117.56	111.28
1	d4	183	ASN	CA-CB-CG	-5.76	106.84	112.60
1	d7	227	LYS	N-CA-C	5.76	118.59	109.96
1	dk	154	ARG	NE-CZ-NH1	5.76	127.26	121.50
1	dp	112	GLN	N-CA-C	5.76	118.30	111.33
1	1l	103	ASP	CA-C-O	5.76	126.86	120.82
1	dF	85	PRO	CA-C-N	5.76	128.28	120.63
1	dF	85	PRO	C-N-CA	5.76	128.28	120.63
1	dM	168	PHE	CA-CB-CG	5.76	119.56	113.80
1	dV	74	ASN	N-CA-C	5.76	117.23	111.07
1	dX	90	PRO	CA-C-N	5.76	129.16	120.75
1	dX	90	PRO	C-N-CA	5.76	129.16	120.75
1	eg	147	PRO	CA-C-N	5.76	128.88	120.71
1	eg	147	PRO	C-N-CA	5.76	128.88	120.71
1	eC	46	GLY	O-C-N	-5.76	116.77	122.41
1	eE	46	GLY	CA-C-N	5.76	129.01	120.95
1	eE	46	GLY	C-N-CA	5.76	129.01	120.95
1	1s	26	VAL	O-C-N	-5.76	115.74	121.96
1	eG	198	CYS	CA-C-N	5.76	127.99	120.28
1	eG	198	CYS	C-N-CA	5.76	127.99	120.28
1	eK	12	HIS	CA-CB-CG	5.76	119.56	113.80
1	eK	139	ASN	CA-CB-CG	5.76	118.36	112.60
1	ff	61	GLY	CA-C-O	-5.76	115.44	122.75
1	fi	38	PRO	CB-CA-C	5.76	121.19	112.55
1	fG	180	GLU	O-C-N	-5.76	115.48	122.22
1	fP	18	ARG	CB-CG-CD	5.76	124.54	111.30
1	1	143	ARG	CA-C-N	5.76	128.47	120.29
1	1	143	ARG	C-N-CA	5.76	128.47	120.29
1	q	138	LEU	CA-C-N	5.76	128.46	120.29
1	q	138	LEU	C-N-CA	5.76	128.46	120.29
1	5	5	ASN	CA-CB-CG	5.76	118.36	112.60
1	gu	113	GLU	N-CA-CB	5.75	118.36	110.01
1	gZ	144	MET	CG-SD-CE	-5.75	88.24	100.90
1	hJ	230	VAL	CA-C-O	-5.75	114.32	120.59
1	i0	167	ARG	N-CA-C	5.75	118.50	111.82
1	1R	74	ASN	O-C-N	-5.75	115.88	122.09
1	j4	148	THR	CA-CB-OG1	5.75	118.23	109.60
1	k4	119	THR	CA-C-O	5.75	126.74	119.95
1	kb	169	TYR	N-CA-C	5.75	117.55	111.28
1	kd	200	THR	N-CA-C	-5.75	104.91	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	75	GLU	CB-CA-C	-5.75	101.81	110.90
1	kS	87	HIS	CB-CG-ND1	5.75	131.33	122.70
1	lw	51	ASP	CA-C-O	5.75	126.86	120.82
1	lI	2	ILE	O-C-N	-5.75	116.39	122.95
1	2p	115	ILE	O-C-N	-5.75	116.29	121.87
1	2K	58	THR	N-CA-CB	5.75	118.99	110.53
1	2P	87	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	3T	90	PRO	N-CA-C	5.75	124.33	112.47
1	4x	41	SER	CA-C-O	5.75	126.84	120.63
1	4D	52	LEU	O-C-N	-5.75	115.88	122.09
1	4D	168	PHE	N-CA-CB	-5.75	101.67	110.01
1	4I	59	VAL	O-C-N	-5.75	116.38	122.83
1	4M	165	VAL	CB-CA-C	5.75	119.34	111.97
1	4Q	219	GLN	CA-C-N	5.75	126.37	119.98
1	4Q	219	GLN	C-N-CA	5.75	126.37	119.98
1	5u	173	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	5u	184	TRP	N-CA-C	5.75	117.55	111.28
1	5D	54	THR	CA-C-N	5.75	127.92	120.44
1	5D	54	THR	C-N-CA	5.75	127.92	120.44
1	68	205	LEU	CA-C-N	5.75	130.91	121.87
1	68	205	LEU	C-N-CA	5.75	130.91	121.87
1	6T	16	SER	CA-C-N	5.75	125.88	119.32
1	6T	16	SER	C-N-CA	5.75	125.88	119.32
1	74	159	GLU	CA-C-O	-5.75	113.66	119.24
1	77	186	THR	CA-CB-OG1	5.75	118.23	109.60
1	7x	81	ASP	CA-C-O	5.75	126.58	119.79
1	7F	91	ILE	O-C-N	-5.75	117.10	123.20
1	8a	149	SER	O-C-N	-5.75	115.79	122.87
1	8f	124	ILE	N-CA-CB	5.75	118.10	111.31
1	8k	172	LEU	CA-C-N	5.75	128.26	120.38
1	8k	172	LEU	C-N-CA	5.75	128.26	120.38
1	8u	156	GLY	CA-C-N	5.75	125.29	119.19
1	8u	156	GLY	C-N-CA	5.75	125.29	119.19
1	8C	108	THR	O-C-N	-5.75	115.28	122.24
1	8M	226	HIS	ND1-CE1-NE2	5.75	114.16	108.40
1	8O	82	ARG	NE-CZ-NH2	5.75	124.38	119.20
1	8P	30	LYS	CA-C-O	-5.75	112.87	119.60
1	9C	45	GLU	N-CA-C	5.75	118.53	109.96
1	9G	41	SER	N-CA-CB	5.75	118.36	110.01
1	9W	103	ASP	CA-C-N	5.75	128.34	120.46
1	9W	103	ASP	C-N-CA	5.75	128.34	120.46
1	a1	87	HIS	CE1-NE2-CD2	-5.75	103.25	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	an	29	GLU	N-CA-C	5.75	117.63	111.36
1	aw	142	VAL	N-CA-C	5.75	115.94	110.42
1	az	89	GLY	CA-C-N	5.75	127.03	119.84
1	az	89	GLY	C-N-CA	5.75	127.03	119.84
1	aK	16	SER	CB-CA-C	-5.75	100.12	109.56
1	aK	164	TYR	CB-CA-C	5.75	119.99	110.90
1	aT	164	TYR	N-CA-CB	-5.75	101.66	110.12
1	bc	96	MET	N-CA-C	5.75	119.37	111.54
1	br	51	ASP	CA-CB-CG	-5.75	106.84	112.60
1	bz	96	MET	N-CA-C	5.75	118.58	110.23
1	dg	22	ALA	N-CA-C	5.75	117.55	111.28
1	dk	120	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	dI	169	TYR	N-CA-C	5.75	118.50	111.82
1	dM	72	THR	CA-C-O	-5.75	114.96	121.00
1	dR	225	GLY	N-CA-C	5.75	119.07	111.70
1	dW	114	GLN	N-CA-C	5.75	117.23	111.07
1	ed	25	LYS	CA-C-N	5.75	128.34	120.46
1	ed	25	LYS	C-N-CA	5.75	128.34	120.46
1	eP	117	TRP	CB-CG-CD2	-5.75	118.74	126.80
1	fa	215	MET	N-CA-C	5.75	117.55	111.28
1	fh	176	GLN	CA-C-O	5.75	126.53	120.54
1	fu	19	THR	CA-C-N	5.75	128.27	120.44
1	fu	19	THR	C-N-CA	5.75	128.27	120.44
1	fu	211	LEU	CA-C-N	5.75	128.31	120.54
1	fu	211	LEU	C-N-CA	5.75	128.31	120.54
1	fN	121	ASN	OD1-CG-ND2	-5.75	116.84	122.60
1	1	66	MET	CA-C-N	5.75	127.99	120.28
1	1	66	MET	C-N-CA	5.75	127.99	120.28
1	n	97	ARG	CA-C-N	5.75	129.26	121.20
1	n	97	ARG	C-N-CA	5.75	129.26	121.20
1	w	222	GLY	O-C-N	-5.75	117.12	123.05
1	X	6	LEU	CA-C-N	5.75	129.44	120.75
1	X	6	LEU	C-N-CA	5.75	129.44	120.75
1	6	3	VAL	CA-C-O	5.75	127.40	120.67
1	gk	83	LEU	N-CA-C	5.75	117.23	111.07
1	gn	150	ILE	CA-C-O	5.75	124.43	118.96
1	gt	22	ALA	CA-C-O	5.75	126.58	119.79
1	gz	210	THR	N-CA-CB	5.75	118.49	110.26
1	gB	105	ALA	CA-C-N	5.75	133.09	121.93
1	gB	105	ALA	C-N-CA	5.75	133.09	121.93
1	gT	23	TRP	CB-CG-CD2	-5.75	118.74	126.80
1	gZ	9	GLN	CA-C-N	5.75	128.88	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gZ	9	GLN	C-N-CA	5.75	128.88	120.71
1	hc	36	VAL	N-CA-C	5.75	118.28	111.09
1	hd	183	ASN	N-CA-C	5.75	117.23	111.07
1	hk	68	MET	CA-C-N	5.75	128.26	120.44
1	hk	68	MET	C-N-CA	5.75	128.26	120.44
1	hs	181	VAL	N-CA-C	5.75	116.49	110.62
1	hC	13	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	hC	54	THR	CA-C-N	5.75	127.99	120.28
1	hC	54	THR	C-N-CA	5.75	127.99	120.28
1	hH	214	MET	N-CA-C	5.75	117.55	111.28
1	hJ	114	GLN	O-C-N	-5.75	115.59	122.15
1	hO	180	GLU	CA-C-N	5.75	128.34	120.46
1	hO	180	GLU	C-N-CA	5.75	128.34	120.46
1	hQ	13	GLN	N-CA-C	-5.75	99.63	109.24
1	hV	183	ASN	CA-C-N	5.75	127.92	120.44
1	hV	183	ASN	C-N-CA	5.75	127.92	120.44
1	hX	163	ASP	CA-CB-CG	-5.75	106.85	112.60
1	hZ	114	GLN	CA-C-N	5.75	127.81	120.56
1	hZ	114	GLN	C-N-CA	5.75	127.81	120.56
1	i0	36	VAL	O-C-N	-5.75	116.27	121.91
1	ib	75	GLU	CA-C-N	5.75	127.99	120.28
1	ib	75	GLU	C-N-CA	5.75	127.99	120.28
1	1O	163	ASP	CA-CB-CG	-5.75	106.85	112.60
1	il	107	THR	N-CA-CB	5.75	118.67	110.16
1	iA	107	THR	CB-CA-C	-5.75	98.64	110.38
1	iQ	117	TRP	CA-C-N	5.75	128.56	120.28
1	iQ	117	TRP	C-N-CA	5.75	128.56	120.28
1	j2	182	LYS	N-CA-C	5.75	117.55	111.28
1	1U	73	ILE	CA-C-N	5.75	127.99	120.28
1	1U	73	ILE	C-N-CA	5.75	127.99	120.28
1	1U	156	GLY	O-C-N	-5.75	116.02	121.77
1	jd	71	GLU	N-CA-C	5.75	117.55	111.28
1	ji	134	ILE	N-CA-C	5.75	115.94	110.42
1	jB	66	MET	N-CA-C	5.75	117.22	111.07
1	jH	229	ARG	N-CA-C	5.75	118.61	110.50
1	jY	226	HIS	CA-C-N	5.75	129.88	121.31
1	jY	226	HIS	C-N-CA	5.75	129.88	121.31
1	k1	216	THR	N-CA-CB	5.75	118.96	110.56
1	k9	145	TYR	CA-C-O	5.75	125.71	119.15
1	ka	3	VAL	CA-C-O	5.75	127.11	120.67
1	kb	193	ASN	CA-C-N	5.75	129.28	120.82
1	kb	193	ASN	C-N-CA	5.75	129.28	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kd	84	HIS	CA-C-O	-5.75	114.98	119.99
1	kh	21	ASN	N-CA-CB	-5.75	101.66	110.12
1	kl	65	ALA	CA-C-N	5.75	127.99	120.28
1	kl	65	ALA	C-N-CA	5.75	127.99	120.28
1	kn	180	GLU	N-CA-C	5.75	117.55	111.28
1	kq	101	GLY	CA-C-N	5.75	128.46	120.29
1	kq	101	GLY	C-N-CA	5.75	128.46	120.29
1	ks	151	LEU	O-C-N	-5.75	115.18	122.26
1	ks	195	ASN	CA-CB-CG	5.75	118.35	112.60
1	ky	117	TRP	N-CA-CB	5.75	118.35	110.01
1	kD	180	GLU	CA-C-N	5.75	127.93	120.56
1	kD	180	GLU	C-N-CA	5.75	127.93	120.56
1	kD	184	TRP	N-CA-C	5.75	117.55	111.28
1	kK	5	ASN	CA-CB-CG	5.75	118.35	112.60
1	24	133	TRP	CG-CD2-CE3	5.75	139.65	133.90
1	kP	134	ILE	CA-C-N	5.75	128.02	120.60
1	kP	134	ILE	C-N-CA	5.75	128.02	120.60
1	la	143	ARG	CD-NE-CZ	-5.75	116.34	124.40
1	lh	178	SER	N-CA-C	5.75	117.97	110.43
1	lJ	3	VAL	CA-C-O	-5.75	114.32	120.59
1	2O	27	VAL	O-C-N	-5.75	115.90	121.83
1	2Q	36	VAL	CA-C-N	5.75	124.93	120.33
1	2Q	36	VAL	C-N-CA	5.75	124.93	120.33
1	2W	185	MET	CG-SD-CE	-5.75	88.24	100.90
1	32	223	GLY	O-C-N	-5.75	116.02	121.77
1	3u	137	GLY	N-CA-C	5.75	119.63	112.73
1	3D	193	ASN	CA-CB-CG	5.75	118.35	112.60
1	3I	200	THR	N-CA-C	5.75	117.63	111.36
1	3T	84	HIS	CA-CB-CG	-5.75	108.05	113.80
1	3Y	226	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	4a	79	GLU	CB-CG-CD	5.75	122.38	112.60
1	4a	226	HIS	CA-CB-CG	5.75	119.55	113.80
1	4o	67	GLN	CA-C-O	5.75	126.65	120.55
1	4s	205	LEU	N-CA-CB	-5.75	101.67	110.01
1	4u	134	ILE	N-CA-C	5.75	116.49	110.62
1	55	32	PHE	N-CA-C	5.75	117.44	109.15
1	5a	202	LEU	N-CA-C	5.75	117.55	111.28
1	5q	106	GLY	CA-C-N	5.75	128.45	120.63
1	5q	106	GLY	C-N-CA	5.75	128.45	120.63
1	5E	1	PRO	N-CA-CB	5.75	109.33	103.00
1	5M	58	THR	CA-C-O	5.75	126.65	120.55
1	5X	229	ARG	NH1-CZ-NH2	-5.75	111.82	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Y	149	SER	N-CA-C	5.75	118.67	110.10
1	62	73	ILE	O-C-N	-5.75	116.27	121.91
1	6h	36	VAL	CA-C-N	5.75	125.95	120.43
1	6h	36	VAL	C-N-CA	5.75	125.95	120.43
1	6l	88	ALA	CA-C-O	-5.75	114.59	120.80
1	6r	48	THR	CA-C-N	5.75	125.88	119.32
1	6r	48	THR	C-N-CA	5.75	125.88	119.32
1	6A	147	PRO	O-C-N	-5.75	114.87	122.64
1	6D	139	ASN	CA-C-N	5.75	128.46	120.29
1	6D	139	ASN	C-N-CA	5.75	128.46	120.29
1	6H	43	LEU	CA-C-O	-5.75	114.45	120.55
1	6P	87	HIS	CA-C-N	5.75	129.28	120.82
1	6P	87	HIS	C-N-CA	5.75	129.28	120.82
1	6R	220	GLY	CA-C-N	5.75	129.74	120.30
1	6R	220	GLY	C-N-CA	5.75	129.74	120.30
1	6Y	21	ASN	N-CA-C	5.75	117.55	111.28
1	74	212	GLU	N-CA-C	5.75	117.55	111.28
1	75	88	ALA	O-C-N	-5.75	116.07	122.86
1	7d	127	GLY	CA-C-N	5.75	127.99	120.28
1	7d	127	GLY	C-N-CA	5.75	127.99	120.28
1	7k	171	THR	N-CA-C	5.75	117.55	111.28
1	7A	154	ARG	O-C-N	-5.75	115.82	122.95
1	7P	216	THR	N-CA-CB	5.75	118.96	110.56
1	7S	225	GLY	CA-C-O	5.75	130.58	120.57
1	8d	124	ILE	N-CA-C	-5.75	101.17	107.73
1	8k	226	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	8I	16	SER	O-C-N	-5.75	113.81	121.64
1	8N	7	GLN	CA-C-O	-5.75	114.08	120.70
1	8N	18	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	8O	72	THR	N-CA-C	5.75	117.55	111.28
1	9P	153	ILE	CA-CB-CG1	5.75	120.18	110.40
1	9U	192	GLN	N-CA-C	5.75	120.03	112.89
1	9Z	173	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	10	62	HIS	CA-CB-CG	5.75	119.55	113.80
1	ad	32	PHE	CA-C-O	5.75	126.52	120.36
1	ae	135	ILE	O-C-N	-5.75	116.25	121.89
1	ai	25	LYS	CA-C-N	5.75	127.81	120.56
1	ai	25	LYS	C-N-CA	5.75	127.81	120.56
1	aq	166	ASP	CA-C-N	5.75	127.99	120.28
1	aq	166	ASP	C-N-CA	5.75	127.99	120.28
1	aD	77	ALA	O-C-N	-5.75	116.14	122.07
1	14	195	ASN	CA-CB-CG	-5.75	106.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aZ	101	GLY	CA-C-N	5.75	128.56	120.28
1	aZ	101	GLY	C-N-CA	5.75	128.56	120.28
1	b2	73	ILE	CA-C-N	5.75	127.99	120.28
1	b2	73	ILE	C-N-CA	5.75	127.99	120.28
1	b7	19	THR	N-CA-C	5.75	118.49	111.82
1	b9	210	THR	N-CA-CB	5.75	118.50	110.04
1	17	7	GLN	CA-C-O	5.75	126.38	119.59
1	bk	229	ARG	O-C-N	-5.75	114.97	122.39
1	18	227	LYS	N-CA-C	5.75	119.05	111.28
1	19	8	GLY	O-C-N	-5.75	116.67	122.54
1	cd	132	ARG	NE-CZ-NH2	-5.75	114.02	119.20
1	cm	188	THR	N-CA-C	5.75	123.06	110.80
1	cn	128	GLU	CA-C-N	5.75	128.31	120.77
1	cn	128	GLU	C-N-CA	5.75	128.31	120.77
1	cq	53	ASN	CA-CB-CG	-5.75	106.85	112.60
1	cr	33	SER	CA-C-N	5.75	127.03	119.84
1	cr	33	SER	C-N-CA	5.75	127.03	119.84
1	cw	221	VAL	N-CA-CB	-5.75	104.26	110.53
1	cA	104	ILE	CA-C-O	5.75	127.27	121.17
1	cL	148	THR	CA-C-O	5.75	127.83	121.56
1	dh	165	VAL	CB-CA-C	-5.75	104.28	112.22
1	do	77	ALA	CA-C-N	5.75	127.92	120.44
1	do	77	ALA	C-N-CA	5.75	127.92	120.44
1	dG	32	PHE	CA-C-N	5.75	129.43	120.68
1	dG	32	PHE	C-N-CA	5.75	129.43	120.68
1	dS	140	LYS	CA-C-O	5.75	126.59	119.97
1	dV	146	SER	CA-C-N	5.75	127.03	119.84
1	dV	146	SER	C-N-CA	5.75	127.03	119.84
1	dY	153	ILE	N-CA-CB	5.75	120.07	110.86
1	ea	58	THR	N-CA-C	5.75	117.55	111.28
1	1p	194	ALA	CA-C-N	5.75	129.40	120.60
1	1p	194	ALA	C-N-CA	5.75	129.40	120.60
1	ec	85	PRO	N-CA-C	5.75	124.32	112.47
1	eu	142	VAL	CA-C-N	5.75	127.99	120.28
1	eu	142	VAL	C-N-CA	5.75	127.99	120.28
1	eD	32	PHE	CA-CB-CG	-5.75	108.05	113.80
1	eE	22	ALA	CA-C-N	5.75	127.99	120.28
1	eE	22	ALA	C-N-CA	5.75	127.99	120.28
1	1s	43	LEU	N-CA-CB	-5.75	101.05	110.14
1	eG	206	GLY	O-C-N	-5.75	116.02	121.77
1	eJ	170	LYS	N-CA-C	5.75	118.29	111.33
1	eS	154	ARG	NE-CZ-NH1	5.75	127.25	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eY	132	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	f2	194	ALA	N-CA-C	5.75	118.93	110.30
1	f6	123	PRO	N-CA-CB	-5.75	98.19	103.25
1	fs	77	ALA	CA-C-O	5.75	126.86	120.82
1	fz	126	VAL	CB-CA-C	-5.75	104.61	111.97
1	fM	159	GLU	N-CA-C	5.75	117.94	109.42
1	1z	223	GLY	CA-C-N	5.75	125.51	119.76
1	1z	223	GLY	C-N-CA	5.75	125.51	119.76
1	fS	66	MET	CA-C-O	5.75	126.65	120.55
1	fX	146	SER	N-CA-CB	5.75	118.53	110.07
1	0	39	MET	N-CA-C	5.75	117.63	111.36
1	i	9	GLN	CA-C-N	5.75	132.53	121.54
1	i	9	GLN	C-N-CA	5.75	132.53	121.54
1	j	173	ARG	NE-CZ-NH2	-5.75	114.02	119.20
1	m	136	LEU	O-C-N	-5.75	116.02	122.12
1	r	212	GLU	N-CA-C	5.75	117.55	111.28
1	r	219	GLN	O-C-N	-5.75	115.06	122.94
1	K	165	VAL	N-CA-C	5.75	118.24	111.05
1	O	41	SER	CA-C-N	5.75	129.45	120.82
1	O	41	SER	C-N-CA	5.75	129.45	120.82
1	U	190	LEU	N-CA-C	5.75	118.01	111.11
1	gd	166	ASP	N-CA-CB	-5.75	101.66	110.12
1	gg	139	ASN	OD1-CG-ND2	-5.75	116.85	122.60
1	1E	113	GLU	N-CA-C	5.75	117.63	111.36
1	gS	87	HIS	CA-CB-CG	5.75	119.55	113.80
1	gZ	32	PHE	CA-CB-CG	-5.75	108.05	113.80
1	h4	168	PHE	CA-CB-CG	-5.75	108.05	113.80
1	hd	87	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	hp	171	THR	N-CA-CB	5.75	119.19	110.28
1	hG	209	ALA	N-CA-CB	-5.75	100.89	109.69
1	hH	45	GLU	CA-C-O	-5.75	114.59	120.80
1	hL	88	ALA	CB-CA-C	5.75	119.41	110.67
1	hP	57	ASN	CA-C-O	5.75	126.60	120.10
1	hU	198	CYS	O-C-N	-5.75	115.59	122.15
1	i0	198	CYS	N-CA-CB	-5.75	101.37	110.28
1	iz	61	GLY	CA-C-N	5.75	130.33	122.34
1	iz	61	GLY	C-N-CA	5.75	130.33	122.34
1	iA	208	ALA	CA-C-O	5.75	125.47	119.14
1	iC	150	ILE	CA-C-O	5.75	126.91	120.64
1	iO	89	GLY	CA-C-N	5.75	127.03	119.84
1	iO	89	GLY	C-N-CA	5.75	127.03	119.84
1	iP	20	LEU	N-CA-C	5.75	117.55	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iP	137	GLY	CA-C-O	-5.75	114.83	120.75
1	jj	139	ASN	O-C-N	-5.75	114.52	122.46
1	jr	141	ILE	N-CA-C	5.75	115.94	110.42
1	jO	13	GLN	CA-C-N	5.75	129.04	120.87
1	jO	13	GLN	C-N-CA	5.75	129.04	120.87
1	jP	154	ARG	NE-CZ-NH2	-5.75	114.02	119.20
1	jR	86	VAL	O-C-N	-5.75	115.38	122.57
1	jT	191	VAL	O-C-N	-5.75	116.29	121.87
1	k3	185	MET	O-C-N	-5.75	115.20	122.27
1	k7	166	ASP	CA-C-O	5.75	126.86	120.82
1	kg	23	TRP	N-CA-C	5.75	117.55	111.28
1	ks	33	SER	CA-C-N	5.75	127.03	119.84
1	ks	33	SER	C-N-CA	5.75	127.03	119.84
1	kF	33	SER	CA-C-N	5.75	127.03	119.84
1	kF	33	SER	C-N-CA	5.75	127.03	119.84
1	kM	33	SER	N-CA-CB	5.75	119.01	109.98
1	kQ	167	ARG	CB-CG-CD	5.75	124.53	111.30
1	kX	169	TYR	CB-CG-CD1	-5.75	112.17	120.80
1	l3	14	ALA	O-C-N	-5.75	116.07	122.86
1	l7	37	ILE	CA-C-N	5.75	125.12	118.85
1	l7	37	ILE	C-N-CA	5.75	125.12	118.85
1	l7	163	ASP	N-CA-C	5.75	117.63	111.36
1	lm	226	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	lo	125	PRO	N-CA-CB	-5.75	98.74	102.65
1	lI	217	ALA	N-CA-CB	-5.75	102.50	110.38
1	lR	183	ASN	O-C-N	-5.75	116.11	122.09
1	2c	58	THR	CA-C-N	5.75	128.21	120.50
1	2c	58	THR	C-N-CA	5.75	128.21	120.50
1	2e	229	ARG	NE-CZ-NH2	-5.75	114.02	119.20
1	2R	89	GLY	CA-C-N	5.75	126.55	120.11
1	2R	89	GLY	C-N-CA	5.75	126.55	120.11
1	30	33	SER	CA-C-N	5.75	127.03	119.84
1	30	33	SER	C-N-CA	5.75	127.03	119.84
1	39	17	PRO	CB-CA-C	5.75	120.51	112.11
1	3c	176	GLN	CA-C-N	5.75	132.53	121.54
1	3c	176	GLN	C-N-CA	5.75	132.53	121.54
1	3n	75	GLU	N-CA-C	5.75	117.55	111.28
1	3p	101	GLY	CA-C-N	5.75	128.56	120.28
1	3p	101	GLY	C-N-CA	5.75	128.56	120.28
1	3p	125	PRO	CB-CA-C	5.75	121.66	112.06
1	3D	195	ASN	CA-C-O	5.75	125.16	119.75
1	3E	45	GLU	N-CA-C	5.75	118.57	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3R	132	ARG	NE-CZ-NH2	-5.75	114.02	119.20
1	3X	156	GLY	O-C-N	-5.75	116.02	121.77
1	4a	213	GLU	N-CA-C	5.75	117.55	111.28
1	4c	195	ASN	N-CA-C	5.75	116.22	109.60
1	4j	208	ALA	N-CA-C	-5.75	105.57	112.59
1	4x	185	MET	O-C-N	-5.75	116.02	122.12
1	4L	215	MET	CG-SD-CE	-5.75	88.25	100.90
1	4T	163	ASP	CA-C-N	5.75	127.99	120.28
1	4T	163	ASP	C-N-CA	5.75	127.99	120.28
1	59	209	ALA	N-CA-C	5.75	118.17	110.35
1	5u	162	ARG	CD-NE-CZ	5.75	132.45	124.40
1	5w	199	LYS	CA-C-O	5.75	126.65	120.55
1	5z	14	ALA	CA-C-O	-5.75	115.45	121.55
1	5A	192	GLN	N-CA-C	5.75	117.55	111.28
1	5F	55	MET	N-CA-C	5.75	118.29	111.33
1	5I	121	ASN	N-CA-C	5.75	118.75	109.15
1	5M	226	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	61	226	HIS	O-C-N	-5.75	114.56	121.64
1	63	87	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	6c	119	THR	CA-C-O	5.75	126.74	119.95
1	6e	194	ALA	N-CA-C	5.75	118.82	110.42
1	6m	103	ASP	O-C-N	-5.75	115.49	122.22
1	6r	137	GLY	N-CA-C	5.75	121.08	113.37
1	6A	201	ILE	CA-C-O	5.75	127.27	121.17
1	6T	130	TYR	N-CA-C	5.75	117.63	111.36
1	7h	51	ASP	N-CA-CB	-5.75	101.65	110.16
1	7l	81	ASP	N-CA-C	5.75	118.49	111.82
1	7V	24	VAL	O-C-N	5.75	127.55	121.91
1	85	97	ARG	N-CA-C	5.75	118.31	110.55
1	89	5	ASN	CA-C-N	5.75	130.74	122.40
1	89	5	ASN	C-N-CA	5.75	130.74	122.40
1	8l	148	THR	CA-CB-CG2	-5.75	100.72	110.50
1	8s	113	GLU	CA-C-N	5.75	128.26	120.44
1	8s	113	GLU	C-N-CA	5.75	128.26	120.44
1	8u	210	THR	O-C-N	-5.75	115.63	122.65
1	8B	200	THR	CA-C-N	5.75	128.02	120.60
1	8B	200	THR	C-N-CA	5.75	128.02	120.60
1	8C	48	THR	CA-CB-OG1	5.75	118.23	109.60
1	8E	67	GLN	N-CA-C	5.75	117.55	111.28
1	8E	154	ARG	CB-CG-CD	5.75	124.53	111.30
1	8K	2	ILE	CA-C-N	5.75	129.17	120.77
1	8K	2	ILE	C-N-CA	5.75	129.17	120.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Q	100	ARG	O-C-N	-5.75	115.07	122.20
1	9c	141	ILE	N-CA-C	5.75	116.49	110.62
1	9g	200	THR	CB-CA-C	-5.75	101.85	110.88
1	9y	164	TYR	N-CA-C	5.75	117.55	111.28
1	9G	161	PHE	O-C-N	-5.75	116.02	122.12
1	9Z	125	PRO	CA-C-O	-5.75	114.95	121.97
1	a5	210	THR	O-C-N	-5.75	116.48	123.10
1	10	133	TRP	CB-CG-CD1	5.75	135.53	126.90
1	ac	173	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	aw	138	LEU	CA-C-N	5.75	127.99	120.28
1	aw	138	LEU	C-N-CA	5.75	127.99	120.28
1	aL	23	TRP	N-CA-C	5.75	117.22	111.07
1	aT	131	LYS	O-C-N	-5.75	116.02	122.12
1	aX	101	GLY	N-CA-C	5.75	119.85	112.83
1	be	214	MET	N-CA-CB	5.75	118.35	110.01
1	bn	179	GLN	CA-C-N	5.75	127.99	120.28
1	bn	179	GLN	C-N-CA	5.75	127.99	120.28
1	br	31	ALA	CB-CA-C	5.75	121.86	110.42
1	bP	146	SER	CB-CA-C	-5.75	102.23	109.31
1	cL	126	VAL	N-CA-C	5.75	116.53	110.72
1	d3	33	SER	CA-C-O	-5.75	113.96	120.46
1	dp	23	TRP	N-CA-CB	-5.75	101.67	110.01
1	dA	28	GLU	N-CA-C	5.75	118.01	111.11
1	dF	159	GLU	O-C-N	-5.75	114.33	121.64
1	dV	169	TYR	CA-C-N	5.75	127.99	120.28
1	dV	169	TYR	C-N-CA	5.75	127.99	120.28
1	dZ	196	PRO	CA-C-N	5.75	127.92	120.44
1	dZ	196	PRO	C-N-CA	5.75	127.92	120.44
1	e3	190	LEU	CA-C-O	5.75	126.65	120.55
1	es	79	GLU	CB-CG-CD	-5.75	102.82	112.60
1	eB	33	SER	CA-C-N	5.75	125.61	119.28
1	eB	33	SER	C-N-CA	5.75	125.61	119.28
1	f4	115	ILE	CA-C-N	5.75	126.49	119.99
1	f4	115	ILE	C-N-CA	5.75	126.49	119.99
1	fc	150	ILE	N-CA-CB	5.75	118.36	110.54
1	fp	164	TYR	O-C-N	-5.75	115.49	122.22
1	fx	155	GLN	CG-CD-NE2	5.75	125.03	116.40
1	fC	198	CYS	O-C-N	-5.75	115.59	122.15
1	fI	182	LYS	CA-C-N	5.75	127.92	120.44
1	fI	182	LYS	C-N-CA	5.75	127.92	120.44
1	fM	75	GLU	CA-C-N	5.75	127.92	120.44
1	fM	75	GLU	C-N-CA	5.75	127.92	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fN	50	GLN	N-CA-C	5.75	117.63	111.36
1	fP	124	ILE	O-C-N	-5.75	116.97	121.46
1	a	154	ARG	NH1-CZ-NH2	-5.75	111.82	119.30
1	e	37	ILE	N-CA-CB	5.75	114.94	110.45
1	f	98	GLU	O-C-N	-5.75	116.31	121.31
1	A	178	SER	CB-CA-C	5.75	119.92	109.62
1	E	194	ALA	O-C-N	-5.75	116.07	122.86
1	Q	149	SER	O-C-N	-5.75	116.07	122.86
1	R	62	HIS	O-C-N	-5.75	114.94	122.59
1	R	84	HIS	CB-CG-CD2	5.75	138.68	131.20
1	gc	203	LYS	CA-C-N	5.75	128.30	120.54
1	gc	203	LYS	C-N-CA	5.75	128.30	120.54
1	gl	226	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	gr	134	ILE	CA-CB-CG2	5.75	120.28	110.50
1	1D	106	GLY	CA-C-N	5.75	128.26	120.44
1	1D	106	GLY	C-N-CA	5.75	128.26	120.44
1	gS	193	ASN	OD1-CG-ND2	-5.75	116.85	122.60
1	ht	85	PRO	CA-C-N	5.75	129.16	120.77
1	ht	85	PRO	C-N-CA	5.75	129.16	120.77
1	hz	188	THR	CA-C-N	5.75	127.98	120.28
1	hz	188	THR	C-N-CA	5.75	127.98	120.28
1	hG	218	CYS	O-C-N	-5.75	114.70	122.41
1	hN	228	ALA	O-C-N	-5.75	115.58	122.65
1	hT	126	VAL	N-CA-C	5.75	118.24	111.05
1	ih	15	ILE	N-CA-C	5.75	118.20	109.12
1	iw	39	MET	O-C-N	-5.75	116.03	122.12
1	iM	100	ARG	CA-C-N	5.75	126.36	119.98
1	iM	100	ARG	C-N-CA	5.75	126.36	119.98
1	iP	200	THR	O-C-N	-5.75	115.24	122.20
1	iQ	195	ASN	CB-CA-C	5.75	118.89	109.46
1	1S	197	ASP	CA-CB-CG	5.75	118.35	112.60
1	j0	229	ARG	NE-CZ-NH2	5.75	124.38	119.20
1	jM	130	TYR	O-C-N	-5.75	116.03	122.12
1	k1	171	THR	CA-C-N	5.75	127.98	120.28
1	k1	171	THR	C-N-CA	5.75	127.98	120.28
1	k2	135	ILE	CA-CB-CG2	5.75	120.27	110.50
1	k6	175	GLU	CB-CA-C	5.75	119.27	109.72
1	kq	154	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	l0	54	THR	CA-C-N	5.75	127.92	120.44
1	l0	54	THR	C-N-CA	5.75	127.92	120.44
1	l0	84	HIS	CB-CG-CD2	-5.75	123.72	131.20
1	2m	142	VAL	N-CA-C	5.75	116.40	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2m	182	LYS	O-C-N	5.75	128.22	122.12
1	2z	191	VAL	N-CA-C	5.75	116.53	110.72
1	2D	72	THR	CA-C-N	5.75	127.81	120.56
1	2D	72	THR	C-N-CA	5.75	127.81	120.56
1	3e	96	MET	N-CA-C	5.75	118.17	110.35
1	3i	73	ILE	CA-C-O	5.75	127.25	121.27
1	3j	77	ALA	CA-C-N	5.75	128.24	120.65
1	3j	77	ALA	C-N-CA	5.75	128.24	120.65
1	3E	33	SER	CA-C-N	5.75	127.03	119.84
1	3E	33	SER	C-N-CA	5.75	127.03	119.84
1	3I	137	GLY	O-C-N	-5.75	116.66	122.18
1	4x	87	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	4F	24	VAL	CA-C-O	-5.75	114.75	120.85
1	4V	173	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	5q	72	THR	N-CA-CB	5.75	118.35	110.01
1	5v	42	ALA	N-CA-C	5.75	117.55	111.28
1	5z	195	ASN	CA-C-N	5.75	127.03	119.84
1	5z	195	ASN	C-N-CA	5.75	127.03	119.84
1	5C	84	HIS	CB-CG-CD2	-5.75	123.72	131.20
1	67	124	ILE	CB-CA-C	-5.75	104.28	110.95
1	6g	44	SER	O-C-N	-5.75	114.50	122.20
1	6j	107	THR	N-CA-C	-5.75	105.37	112.90
1	6H	73	ILE	N-CA-CB	5.75	117.93	110.57
1	6W	124	ILE	CA-C-O	-5.75	114.88	119.25
1	7S	111	LEU	N-CA-C	5.75	117.55	111.28
1	83	139	ASN	N-CA-C	5.75	117.55	111.28
1	88	105	ALA	CA-C-N	5.75	132.46	122.05
1	88	105	ALA	C-N-CA	5.75	132.46	122.05
1	8g	53	ASN	O-C-N	-5.75	116.03	122.12
1	8k	85	PRO	N-CA-CB	-5.75	98.35	103.35
1	8k	202	LEU	N-CA-C	5.75	118.32	111.71
1	8L	215	MET	CA-C-O	5.75	126.45	119.38
1	92	52	LEU	CA-C-N	5.75	128.46	120.29
1	92	52	LEU	C-N-CA	5.75	128.46	120.29
1	9t	197	ASP	N-CA-CB	5.75	118.57	110.12
1	9K	124	ILE	CA-CB-CG1	5.75	120.17	110.40
1	aG	91	ILE	O-C-N	-5.75	116.37	123.10
1	aW	84	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	bI	120	HIS	CA-C-O	-5.75	115.44	121.99
1	bL	209	ALA	N-CA-C	5.75	118.40	110.35
1	1b	73	ILE	CA-C-O	5.75	127.25	121.27
1	cp	194	ALA	N-CA-C	5.75	118.61	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cw	12	HIS	CG-CD2-NE2	5.75	112.95	107.20
1	cU	211	LEU	CA-C-O	-5.75	114.45	120.55
1	dd	79	GLU	CA-C-N	5.75	127.92	120.44
1	dd	79	GLU	C-N-CA	5.75	127.92	120.44
1	dG	203	LYS	N-CA-C	5.75	117.22	111.07
1	dM	48	THR	CA-CB-CG2	-5.75	100.72	110.50
1	dQ	83	LEU	CB-CA-C	-5.75	100.86	110.81
1	ed	155	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	eg	129	ILE	N-CA-CB	5.75	119.21	110.58
1	er	73	ILE	CA-C-O	-5.75	115.29	121.27
1	eT	148	THR	CA-CB-CG2	5.75	120.28	110.50
1	fT	42	ALA	CA-C-O	-5.75	114.45	120.55
1	fW	46	GLY	CA-C-O	5.75	126.14	119.13
1	fZ	210	THR	N-CA-CB	5.75	118.49	110.04
1	g1	158	LYS	CA-C-N	5.75	131.30	121.35
1	g1	158	LYS	C-N-CA	5.75	131.30	121.35
1	b	188	THR	O-C-N	-5.75	115.22	121.95
1	l	141	ILE	CA-C-N	5.75	128.34	120.46
1	l	141	ILE	C-N-CA	5.75	128.34	120.46
1	s	103	ASP	N-CA-C	5.75	117.35	111.14
1	6	102	SER	N-CA-C	5.75	118.01	111.11
1	gh	132	ARG	CA-C-N	5.75	127.98	120.28
1	gh	132	ARG	C-N-CA	5.75	127.98	120.28
1	gk	89	GLY	CA-C-O	-5.75	113.30	121.52
1	gt	206	GLY	O-C-N	-5.75	116.02	121.77
1	gw	191	VAL	N-CA-C	5.75	116.48	110.62
1	gB	179	GLN	N-CA-C	5.75	117.63	111.36
1	gQ	67	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	gW	197	ASP	CA-CB-CG	5.75	118.35	112.60
1	hm	66	MET	N-CA-C	5.75	117.55	111.28
1	ht	219	GLN	OE1-CD-NE2	5.75	128.35	122.60
1	hX	12	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	i4	227	LYS	O-C-N	-5.75	116.58	123.31
1	it	151	LEU	CA-C-O	5.75	126.44	119.31
1	iK	88	ALA	N-CA-C	-5.75	106.22	113.18
1	jg	149	SER	N-CA-C	5.75	118.57	110.23
1	jB	213	GLU	O-C-N	-5.75	116.03	122.12
1	jE	100	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	jI	29	GLU	N-CA-C	5.75	117.55	111.28
1	jQ	70	LYS	CA-C-N	5.75	127.91	120.44
1	jQ	70	LYS	C-N-CA	5.75	127.91	120.44
1	k5	4	GLN	N-CA-C	5.75	118.17	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k5	166	ASP	N-CA-C	5.75	117.55	111.28
1	k6	107	THR	CA-C-O	5.75	126.73	119.78
1	k7	94	GLY	O-C-N	5.75	130.17	122.70
1	ka	109	SER	CA-C-N	5.75	133.39	121.32
1	ka	109	SER	C-N-CA	5.75	133.39	121.32
1	ks	165	VAL	O-C-N	-5.75	116.29	121.87
1	kz	90	PRO	N-CA-C	5.75	124.31	112.47
1	kA	110	THR	N-CA-C	5.75	118.60	110.50
1	kD	122	PRO	CA-C-N	5.75	127.03	119.84
1	kD	122	PRO	C-N-CA	5.75	127.03	119.84
1	kV	183	ASN	O-C-N	-5.75	116.03	122.12
1	l3	204	ALA	CA-C-N	5.75	128.56	120.28
1	l3	204	ALA	C-N-CA	5.75	128.56	120.28
1	l5	120	HIS	N-CA-C	5.75	117.71	110.24
1	l9	60	GLY	CA-C-N	5.75	129.58	121.30
1	l9	60	GLY	C-N-CA	5.75	129.58	121.30
1	ly	192	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	lE	87	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	2g	6	LEU	CA-C-O	5.75	126.84	120.63
1	2O	121	ASN	N-CA-C	-5.75	97.11	109.81
1	2R	195	ASN	CA-CB-CG	5.75	118.35	112.60
1	2X	56	LEU	CA-C-N	5.75	128.26	120.38
1	2X	56	LEU	C-N-CA	5.75	128.26	120.38
1	30	178	SER	N-CA-C	5.75	117.95	110.53
1	39	35	GLU	N-CA-C	5.75	118.32	111.71
1	3d	165	VAL	CB-CA-C	-5.75	104.29	112.22
1	3q	43	LEU	CA-C-O	5.75	126.02	119.18
1	3z	77	ALA	CA-C-N	5.75	127.98	120.28
1	3z	77	ALA	C-N-CA	5.75	127.98	120.28
1	3B	97	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	3D	213	GLU	CA-C-O	5.75	126.58	119.97
1	3H	213	GLU	CA-C-O	5.75	126.62	120.24
1	3R	131	LYS	CA-C-N	5.75	127.98	120.28
1	3R	131	LYS	C-N-CA	5.75	127.98	120.28
1	3T	49	PRO	CA-C-N	5.75	128.45	120.29
1	3T	49	PRO	C-N-CA	5.75	128.45	120.29
1	3X	227	LYS	O-C-N	-5.75	115.60	122.15
1	46	183	ASN	O-C-N	-5.75	115.49	122.22
1	49	182	LYS	O-C-N	-5.75	116.03	122.12
1	4f	77	ALA	CA-C-N	5.75	127.91	120.44
1	4f	77	ALA	C-N-CA	5.75	127.91	120.44
1	4z	229	ARG	O-C-N	-5.75	116.21	123.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	213	GLU	CB-CA-C	-5.75	101.08	110.85
1	4N	137	GLY	O-C-N	-5.75	116.67	122.19
1	4U	54	THR	CA-C-N	5.75	127.91	120.44
1	4U	54	THR	C-N-CA	5.75	127.91	120.44
1	5i	184	TRP	N-CA-CB	-5.75	101.37	110.28
1	5m	128	GLU	CA-C-N	5.75	128.58	120.42
1	5m	128	GLU	C-N-CA	5.75	128.58	120.42
1	5x	107	THR	CA-CB-CG2	5.75	120.27	110.50
1	5C	50	GLN	N-CA-C	5.75	117.55	111.28
1	5C	138	LEU	CA-C-N	5.75	127.98	120.28
1	5C	138	LEU	C-N-CA	5.75	127.98	120.28
1	5G	40	PHE	N-CA-C	5.75	118.28	111.33
1	5S	27	VAL	CA-C-N	5.75	127.91	120.44
1	5S	27	VAL	C-N-CA	5.75	127.91	120.44
1	6c	120	HIS	CG-CD2-NE2	5.75	112.95	107.20
1	6f	185	MET	CA-C-O	5.75	126.64	120.55
1	6l	103	ASP	CA-C-O	-5.75	114.46	120.55
1	6z	181	VAL	N-CA-C	5.75	115.94	110.42
1	6S	117	TRP	CD2-CE2-CZ2	-5.75	116.65	122.40
1	79	139	ASN	CA-CB-CG	-5.75	106.85	112.60
1	7j	19	THR	CA-C-O	-5.75	114.78	120.82
1	7B	116	GLY	N-CA-C	5.75	119.63	112.73
1	7B	148	THR	CA-C-O	5.75	126.45	120.30
1	7P	40	PHE	N-CA-C	5.75	117.22	111.07
1	7R	18	ARG	CA-C-O	5.75	126.86	120.82
1	82	180	GLU	N-CA-CB	5.75	118.68	110.06
1	8r	110	THR	N-CA-CB	5.75	118.58	110.36
1	8A	77	ALA	CA-C-O	5.75	126.58	119.97
1	8F	138	LEU	N-CA-C	5.75	117.55	111.28
1	8H	142	VAL	CA-C-N	5.75	127.98	120.28
1	8H	142	VAL	C-N-CA	5.75	127.98	120.28
1	8I	127	GLY	CA-C-N	5.75	128.45	120.29
1	8I	127	GLY	C-N-CA	5.75	128.45	120.29
1	8M	183	ASN	OD1-CG-ND2	-5.75	116.85	122.60
1	8N	226	HIS	ND1-CE1-NE2	5.75	114.15	108.40
1	8S	180	GLU	N-CA-C	5.75	117.55	111.28
1	9h	217	ALA	CB-CA-C	-5.75	100.93	109.90
1	9j	187	GLU	O-C-N	-5.75	115.15	122.34
1	9q	162	ARG	N-CA-C	5.75	117.55	111.28
1	9W	84	HIS	CA-CB-CG	5.75	119.55	113.80
1	9X	161	PHE	CA-C-N	5.75	127.98	120.28
1	9X	161	PHE	C-N-CA	5.75	127.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a3	12	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	aa	96	MET	O-C-N	-5.75	116.31	123.04
1	ai	114	GLN	OE1-CD-NE2	5.75	128.35	122.60
1	ao	7	GLN	CB-CG-CD	5.75	122.37	112.60
1	au	54	THR	CA-C-O	-5.75	114.78	120.82
1	aA	89	GLY	CA-C-N	5.75	127.03	119.84
1	aA	89	GLY	C-N-CA	5.75	127.03	119.84
1	b2	196	PRO	O-C-N	-5.75	115.33	122.23
1	bg	37	ILE	O-C-N	-5.75	115.99	120.07
1	bk	107	THR	N-CA-C	5.75	117.55	111.28
1	bk	108	THR	CA-CB-OG1	5.75	118.22	109.60
1	bk	189	LEU	N-CA-C	5.75	117.55	111.28
1	bL	164	TYR	O-C-N	-5.75	115.60	122.15
1	bM	67	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	1c	4	GLN	CG-CD-NE2	5.75	125.02	116.40
1	cq	92	GLU	CA-C-N	5.75	125.76	119.90
1	cq	92	GLU	C-N-CA	5.75	125.76	119.90
1	cq	131	LYS	N-CA-C	5.75	117.55	111.28
1	cK	55	MET	CG-SD-CE	5.75	113.55	100.90
1	cQ	173	ARG	CB-CG-CD	5.75	124.52	111.30
1	cU	221	VAL	N-CA-C	5.75	120.09	112.04
1	d1	91	ILE	CA-C-O	5.75	127.96	120.78
1	1i	4	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	dj	83	LEU	N-CA-C	5.75	117.63	111.36
1	dk	146	SER	CA-C-N	5.75	125.68	119.76
1	dk	146	SER	C-N-CA	5.75	125.68	119.76
1	dp	18	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	dw	30	LYS	CA-C-O	5.75	125.61	119.34
1	dC	34	PRO	N-CA-C	5.75	124.31	112.47
1	dG	105	ALA	N-CA-C	5.75	119.77	112.87
1	dG	199	LYS	N-CA-CB	5.75	118.57	110.12
1	e2	67	GLN	CA-C-N	5.75	128.25	120.38
1	e2	67	GLN	C-N-CA	5.75	128.25	120.38
1	ek	133	TRP	CA-C-N	5.75	127.80	120.56
1	ek	133	TRP	C-N-CA	5.75	127.80	120.56
1	eo	12	HIS	O-C-N	-5.75	115.86	122.93
1	es	72	THR	CA-C-N	5.75	128.58	120.42
1	es	72	THR	C-N-CA	5.75	128.58	120.42
1	eu	153	ILE	N-CA-C	5.75	116.69	108.93
1	ew	84	HIS	CE1-NE2-CD2	-5.75	103.25	109.00
1	eJ	226	HIS	O-C-N	-5.75	116.62	123.06
1	eN	226	HIS	CB-CG-ND1	5.75	131.32	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	165	VAL	CA-C-N	5.75	128.78	120.79
1	f6	165	VAL	C-N-CA	5.75	128.78	120.79
1	fv	84	HIS	O-C-N	-5.75	118.03	121.71
1	fF	177	ALA	N-CA-C	5.75	118.69	110.24
1	fG	198	CYS	CB-CA-C	-5.75	101.25	110.79
1	fH	101	GLY	O-C-N	-5.75	116.59	122.17
1	fN	168	PHE	CB-CA-C	5.75	119.91	110.88
1	1A	107	THR	CA-C-O	5.75	126.51	120.42
1	g2	117	TRP	CB-CA-C	5.75	119.90	110.88
1	g7	199	LYS	CA-C-N	5.75	128.24	120.65
1	g7	199	LYS	C-N-CA	5.75	128.24	120.65
1	1B	135	ILE	CA-CB-CG2	5.75	120.27	110.50
1	t	171	THR	CA-C-O	5.75	126.64	120.55
1	B	5	ASN	CB-CG-ND2	-5.75	107.78	116.40
1	9	131	LYS	N-CA-C	5.75	117.22	111.07
1	g9	201	ILE	O-C-N	-5.75	116.30	121.87
1	gb	24	VAL	O-C-N	-5.75	116.30	121.87
1	gp	69	LEU	N-CA-C	5.75	117.22	111.07
1	gy	197	ASP	CA-CB-CG	5.75	118.35	112.60
1	gz	9	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	gN	187	GLU	N-CA-C	5.75	119.47	112.23
1	gP	113	GLU	CB-CA-C	-5.75	101.08	110.85
1	he	222	GLY	O-C-N	-5.75	116.09	122.47
1	hs	23	TRP	CB-CG-CD1	-5.75	118.28	126.90
1	ht	143	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	hC	98	GLU	CA-CB-CG	-5.75	102.61	114.10
1	hD	158	LYS	CA-C-O	5.75	126.26	119.48
1	hI	107	THR	CA-CB-OG1	5.75	118.22	109.60
1	hM	186	THR	CA-CB-OG1	5.75	118.22	109.60
1	hR	122	PRO	CA-C-N	5.75	127.02	119.84
1	hR	122	PRO	C-N-CA	5.75	127.02	119.84
1	i3	133	TRP	CB-CG-CD1	5.75	135.52	126.90
1	ik	13	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	is	132	ARG	N-CA-CB	5.75	118.57	110.12
1	j8	9	GLN	N-CA-C	5.75	118.40	110.35
1	ja	75	GLU	CB-CA-C	5.75	120.00	110.81
1	ja	100	ARG	CA-C-N	-5.75	112.92	120.22
1	ja	100	ARG	C-N-CA	-5.75	112.92	120.22
1	jw	9	GLN	O-C-N	-5.75	115.96	122.97
1	jC	88	ALA	CA-C-N	5.75	130.89	121.87
1	jC	88	ALA	C-N-CA	5.75	130.89	121.87
1	jE	126	VAL	N-CA-C	5.75	116.48	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jI	229	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	21	28	GLU	N-CA-CB	5.75	118.34	110.01
1	kn	229	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	22	36	VAL	CA-CB-CG1	-5.75	100.63	110.40
1	kw	170	LYS	CA-C-O	5.75	126.64	120.55
1	kI	165	VAL	CA-C-N	5.75	128.25	120.44
1	kI	165	VAL	C-N-CA	5.75	128.25	120.44
1	24	165	VAL	O-C-N	-5.75	116.30	121.87
1	le	179	GLN	CA-C-N	5.75	127.91	120.44
1	le	179	GLN	C-N-CA	5.75	127.91	120.44
1	ll	110	THR	O-C-N	-5.75	116.49	123.10
1	2f	26	VAL	CG1-CB-CG2	-5.75	98.16	110.80
1	2h	36	VAL	N-CA-C	5.75	116.48	110.62
1	2C	13	GLN	N-CA-C	5.75	118.58	109.50
1	2E	118	MET	O-C-N	-5.75	116.03	122.12
1	2G	34	PRO	CA-C-N	5.75	130.32	120.72
1	2G	34	PRO	C-N-CA	5.75	130.32	120.72
1	2W	166	ASP	N-CA-CB	-5.75	101.45	110.30
1	34	22	ALA	CA-C-N	5.75	128.24	120.65
1	34	22	ALA	C-N-CA	5.75	128.24	120.65
1	34	184	TRP	CA-C-N	5.75	128.25	120.38
1	34	184	TRP	C-N-CA	5.75	128.25	120.38
1	3d	73	ILE	CA-C-N	5.75	129.04	120.31
1	3d	73	ILE	C-N-CA	5.75	129.04	120.31
1	3j	9	GLN	CA-C-N	5.75	132.51	121.54
1	3j	9	GLN	C-N-CA	5.75	132.51	121.54
1	3m	26	VAL	N-CA-C	5.75	118.23	111.05
1	3s	214	MET	CA-C-O	5.75	126.59	120.10
1	3x	106	GLY	CA-C-O	-5.75	112.45	119.06
1	3T	169	TYR	CB-CG-CD1	5.75	129.42	120.80
1	43	57	ASN	CA-C-N	5.75	128.56	120.28
1	43	57	ASN	C-N-CA	5.75	128.56	120.28
1	4a	3	VAL	N-CA-CB	-5.75	104.46	110.72
1	4e	80	TRP	N-CA-C	5.75	117.54	111.28
1	4g	226	HIS	N-CA-C	5.75	118.01	111.11
1	4x	146	SER	CA-C-O	5.75	125.15	119.75
1	4B	96	MET	N-CA-C	5.75	117.42	109.15
1	4H	128	GLU	CA-C-N	5.75	127.80	120.56
1	4H	128	GLU	C-N-CA	5.75	127.80	120.56
1	4T	127	GLY	CA-C-N	5.75	128.30	120.54
1	4T	127	GLY	C-N-CA	5.75	128.30	120.54
1	4Y	71	GLU	O-C-N	-5.75	116.03	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	58	198	CYS	CA-C-N	5.75	127.98	120.28
1	58	198	CYS	C-N-CA	5.75	127.98	120.28
1	5d	19	THR	N-CA-CB	5.75	118.50	109.94
1	5g	65	ALA	N-CA-C	5.75	117.22	111.07
1	5k	71	GLU	N-CA-CB	5.75	119.07	110.22
1	5v	166	ASP	CA-C-N	5.75	128.45	120.29
1	5v	166	ASP	C-N-CA	5.75	128.45	120.29
1	5R	186	THR	N-CA-CB	5.75	118.40	110.07
1	5W	173	ARG	N-CA-C	5.75	119.39	112.38
1	61	26	VAL	N-CA-C	5.75	118.27	111.09
1	63	173	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	6A	153	ILE	N-CA-C	5.75	117.73	109.51
1	6I	12	HIS	CA-CB-CG	-5.75	108.05	113.80
1	6K	170	LYS	N-CA-CB	-5.75	101.66	110.16
1	6P	48	THR	N-CA-CB	5.75	117.71	109.78
1	7f	145	TYR	CA-C-O	5.75	126.38	119.43
1	7p	107	THR	N-CA-CB	5.75	118.98	110.53
1	7x	195	ASN	OD1-CG-ND2	-5.75	116.85	122.60
1	7A	23	TRP	N-CA-C	5.75	117.54	111.28
1	7C	123	PRO	N-CA-C	5.75	120.23	111.15
1	7F	143	ARG	CD-NE-CZ	5.75	132.44	124.40
1	7P	152	ASP	N-CA-CB	-5.75	100.78	110.49
1	7T	198	CYS	N-CA-CB	5.75	118.56	109.82
1	7V	186	THR	N-CA-CB	5.75	118.57	110.12
1	80	92	GLU	O-C-N	5.75	127.87	121.43
1	8m	59	VAL	N-CA-C	5.75	115.82	108.12
1	8y	213	GLU	CA-C-O	5.75	126.64	120.55
1	8J	225	GLY	CA-C-O	5.75	126.43	119.65
1	8P	152	ASP	CA-CB-CG	5.75	118.35	112.60
1	8T	132	ARG	CA-C-O	5.75	127.05	120.90
1	8U	162	ARG	NE-CZ-NH1	-5.75	115.75	121.50
1	93	162	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	98	189	LEU	O-C-N	-5.75	116.03	122.12
1	9g	179	GLN	CA-C-N	5.75	128.25	120.44
1	9g	179	GLN	C-N-CA	5.75	128.25	120.44
1	9l	143	ARG	N-CA-C	5.75	117.54	111.28
1	9s	174	ALA	CA-C-N	5.75	129.03	120.87
1	9s	174	ALA	C-N-CA	5.75	129.03	120.87
1	9z	28	GLU	CA-C-O	5.75	126.02	119.18
1	9C	226	HIS	CG-CD2-NE2	5.75	112.95	107.20
1	9G	99	PRO	O-C-N	-5.75	117.36	122.93
1	9U	23	TRP	CA-CB-CG	5.75	124.52	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9W	218	CYS	O-C-N	-5.75	114.95	122.59
1	9X	206	GLY	O-C-N	-5.75	116.02	121.77
1	a3	190	LEU	N-CA-CB	5.75	118.40	110.07
1	10	210	THR	O-C-N	-5.75	116.30	122.85
1	11	58	THR	CA-CB-CG2	5.75	120.27	110.50
1	ao	124	ILE	CA-C-O	-5.75	115.76	119.15
1	at	63	GLN	CA-C-O	-5.75	112.55	119.27
1	aG	4	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	aH	197	ASP	CA-C-O	-5.75	114.33	120.42
1	aU	175	GLU	N-CA-C	5.75	117.96	110.43
1	15	97	ARG	CB-CA-C	5.75	121.57	109.79
1	16	200	THR	CA-C-N	5.75	127.88	120.70
1	16	200	THR	C-N-CA	5.75	127.88	120.70
1	b8	230	VAL	N-CA-C	5.75	117.91	109.63
1	bb	62	HIS	ND1-CG-CD2	5.75	111.85	106.10
1	bg	164	TYR	O-C-N	-5.75	116.03	122.12
1	bl	179	GLN	OE1-CD-NE2	-5.75	116.85	122.60
1	bz	10	MET	CG-SD-CE	-5.75	88.26	100.90
1	bz	36	VAL	N-CA-C	5.75	116.48	110.62
1	bG	2	ILE	O-C-N	-5.75	116.14	122.69
1	bX	39	MET	CA-C-N	5.75	128.25	120.38
1	bX	39	MET	C-N-CA	5.75	128.25	120.38
1	bZ	139	ASN	N-CA-C	5.75	117.54	111.28
1	bZ	143	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	1d	23	TRP	N-CA-C	5.75	118.03	111.02
1	cg	53	ASN	CA-C-N	5.75	127.98	120.28
1	cg	53	ASN	C-N-CA	5.75	127.98	120.28
1	co	51	ASP	CA-C-N	5.75	127.98	120.28
1	co	51	ASP	C-N-CA	5.75	127.98	120.28
1	cq	51	ASP	CA-C-O	5.75	126.64	120.55
1	d1	137	GLY	N-CA-C	5.75	119.59	112.64
1	d3	16	SER	N-CA-C	5.75	117.06	109.93
1	d5	226	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	d7	124	ILE	N-CA-CB	-5.75	103.84	111.08
1	df	218	CYS	N-CA-CB	5.75	120.20	110.49
1	1k	14	ALA	N-CA-C	5.75	118.31	110.55
1	dx	19	THR	OG1-CB-CG2	-5.75	97.81	109.30
1	dx	24	VAL	CA-C-N	5.75	127.98	120.28
1	dx	24	VAL	C-N-CA	5.75	127.98	120.28
1	dB	3	VAL	CA-C-O	-5.75	114.27	121.11
1	dD	136	LEU	CA-C-N	5.75	126.36	119.98
1	dD	136	LEU	C-N-CA	5.75	126.36	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dL	82	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	dS	33	SER	O-C-N	-5.75	117.45	121.65
1	dV	186	THR	CA-C-O	5.75	126.57	119.79
1	dY	170	LYS	CA-C-N	5.75	127.98	120.28
1	dY	170	LYS	C-N-CA	5.75	127.98	120.28
1	dZ	133	TRP	CA-C-N	5.75	128.33	120.46
1	dZ	133	TRP	C-N-CA	5.75	128.33	120.46
1	dZ	177	ALA	N-CA-C	5.75	123.04	110.80
1	e8	153	ILE	N-CA-C	5.75	119.10	111.17
1	1r	75	GLU	CA-C-N	5.75	127.98	120.28
1	1r	75	GLU	C-N-CA	5.75	127.98	120.28
1	ew	132	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	eN	205	LEU	CA-C-O	5.75	126.64	120.55
1	eQ	19	THR	N-CA-C	5.75	117.22	111.07
1	f0	91	ILE	CA-C-N	5.75	129.39	120.60
1	f0	91	ILE	C-N-CA	5.75	129.39	120.60
1	f7	116	GLY	CA-C-N	5.75	127.98	120.28
1	f7	116	GLY	C-N-CA	5.75	127.98	120.28
1	fo	227	LYS	N-CA-C	-5.75	103.77	111.87
1	fp	85	PRO	CA-C-N	5.75	129.08	120.69
1	fp	85	PRO	C-N-CA	5.75	129.08	120.69
1	fp	189	LEU	N-CA-C	5.75	118.28	111.33
1	x	25	LYS	CA-C-N	5.75	128.01	120.60
1	x	25	LYS	C-N-CA	5.75	128.01	120.60
1	B	119	THR	CA-CB-OG1	5.75	118.22	109.60
1	C	5	ASN	O-C-N	-5.75	116.54	123.03
1	H	110	THR	OG1-CB-CG2	-5.75	97.81	109.30
1	P	15	ILE	CA-C-N	5.75	128.84	120.51
1	P	15	ILE	C-N-CA	5.75	128.84	120.51
1	R	14	ALA	CA-C-N	5.75	128.20	120.50
1	R	14	ALA	C-N-CA	5.75	128.20	120.50
1	5	8	GLY	O-C-N	-5.75	115.23	122.70
1	6	144	MET	N-CA-C	5.75	117.62	111.36
1	gk	148	THR	CA-CB-CG2	5.75	120.27	110.50
1	1D	33	SER	CA-C-N	5.75	126.50	120.12
1	1D	33	SER	C-N-CA	5.75	126.50	120.12
1	gR	112	GLN	CA-C-O	-5.75	114.46	120.55
1	hx	47	ALA	CB-CA-C	-5.75	98.97	109.54
1	hS	132	ARG	CB-CA-C	-5.75	101.25	110.79
1	iA	198	CYS	N-CA-C	5.75	117.62	111.36
1	iT	173	ARG	NH1-CZ-NH2	-5.75	111.83	119.30
1	j7	185	MET	CG-SD-CE	-5.75	88.26	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jg	184	TRP	CA-C-N	5.75	127.91	120.44
1	jg	184	TRP	C-N-CA	5.75	127.91	120.44
1	jv	101	GLY	N-CA-C	5.75	119.16	112.50
1	jw	227	LYS	O-C-N	5.75	129.94	122.87
1	jE	108	THR	CA-C-N	5.75	129.03	120.87
1	jE	108	THR	C-N-CA	5.75	129.03	120.87
1	ke	10	MET	N-CA-CB	5.75	118.48	109.69
1	ke	92	GLU	CA-C-O	5.75	125.77	120.60
1	28	77	ALA	N-CA-C	5.75	118.00	111.11
1	ls	159	GLU	CA-C-N	5.75	125.76	119.90
1	ls	159	GLU	C-N-CA	5.75	125.76	119.90
1	2k	210	THR	N-CA-CB	5.75	118.48	110.04
1	2l	86	VAL	N-CA-CB	5.75	119.34	111.41
1	2G	146	SER	N-CA-C	5.75	116.21	109.60
1	2U	89	GLY	CA-C-N	5.75	127.02	119.84
1	2U	89	GLY	C-N-CA	5.75	127.02	119.84
1	3n	179	GLN	CA-C-N	5.75	127.98	120.28
1	3n	179	GLN	C-N-CA	5.75	127.98	120.28
1	3y	156	GLY	O-C-N	-5.75	116.03	121.77
1	3F	133	TRP	CA-C-N	5.75	128.33	120.46
1	3F	133	TRP	C-N-CA	5.75	128.33	120.46
1	47	226	HIS	ND1-CE1-NE2	5.75	114.14	108.40
1	49	31	ALA	N-CA-C	5.75	118.92	110.30
1	4u	82	ARG	NE-CZ-NH1	5.75	127.25	121.50
1	4z	189	LEU	O-C-N	-5.75	116.03	122.12
1	4O	88	ALA	N-CA-C	5.75	118.03	109.59
1	4Q	165	VAL	CA-C-N	5.75	127.98	120.28
1	4Q	165	VAL	C-N-CA	5.75	127.98	120.28
1	5g	62	HIS	CB-CG-CD2	-5.75	123.73	131.20
1	5Z	22	ALA	CA-C-O	5.75	126.58	119.97
1	6f	218	CYS	N-CA-C	5.75	119.50	111.74
1	6o	126	VAL	N-CA-C	5.75	116.48	110.62
1	6z	66	MET	N-CA-C	5.75	117.54	111.28
1	74	11	VAL	CB-CA-C	5.75	119.89	111.33
1	7t	122	PRO	N-CA-CB	5.75	108.92	102.60
1	7C	187	GLU	N-CA-C	5.75	117.62	111.36
1	89	67	GLN	O-C-N	-5.75	116.03	122.12
1	8r	130	TYR	CA-C-N	5.75	127.91	120.44
1	8r	130	TYR	C-N-CA	5.75	127.91	120.44
1	8y	34	PRO	N-CA-C	5.75	124.30	112.47
1	8J	11	VAL	CA-C-N	-5.75	114.54	122.30
1	8J	11	VAL	C-N-CA	-5.75	114.54	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8J	190	LEU	CA-C-O	5.75	126.83	120.63
1	9q	142	VAL	N-CA-C	5.75	116.39	110.36
1	9t	2	ILE	CA-C-N	5.75	128.54	122.11
1	9t	2	ILE	C-N-CA	5.75	128.54	122.11
1	b3	160	PRO	CA-C-N	5.75	131.19	121.14
1	b3	160	PRO	C-N-CA	5.75	131.19	121.14
1	bG	28	GLU	N-CA-C	5.75	117.22	111.07
1	bT	169	TYR	CB-CA-C	5.75	120.33	110.79
1	bY	106	GLY	N-CA-C	-5.75	107.33	115.43
1	1c	104	ILE	CB-CA-C	-5.75	102.95	112.26
1	c8	132	ARG	CD-NE-CZ	-5.75	116.36	124.40
1	c8	159	GLU	CA-C-O	5.75	125.75	119.32
1	cd	4	GLN	CA-C-N	5.75	132.51	121.54
1	cd	4	GLN	C-N-CA	5.75	132.51	121.54
1	cl	173	ARG	NE-CZ-NH2	-5.75	114.03	119.20
1	cD	192	GLN	CA-C-O	5.75	126.57	119.79
1	cL	128	GLU	CG-CD-OE1	5.75	131.61	118.40
1	cO	99	PRO	CB-CA-C	5.75	118.85	111.21
1	cP	192	GLN	OE1-CD-NE2	-5.75	116.86	122.60
1	dd	12	HIS	CA-CB-CG	-5.75	108.06	113.80
1	dE	140	LYS	CA-C-O	-5.75	114.33	120.42
1	1p	205	LEU	CA-C-O	5.75	126.64	120.55
1	eq	14	ALA	CA-C-O	-5.75	115.30	121.56
1	ew	2	ILE	N-CA-C	5.75	116.99	109.58
1	eF	34	PRO	CA-C-N	5.75	130.31	120.72
1	eF	34	PRO	C-N-CA	5.75	130.31	120.72
1	eO	82	ARG	CA-C-N	5.75	127.98	120.28
1	eO	82	ARG	C-N-CA	5.75	127.98	120.28
1	f5	31	ALA	CA-C-O	5.75	126.07	119.35
1	fb	224	PRO	N-CA-C	5.75	120.62	111.26
1	ft	12	HIS	CG-CD2-NE2	5.75	112.94	107.20
1	fR	215	MET	O-C-N	-5.75	113.22	122.41
1	1A	185	MET	CA-C-O	5.75	126.83	120.63
1	J	195	ASN	OD1-CG-ND2	-5.75	116.86	122.60
1	N	120	HIS	N-CA-CB	5.75	118.49	110.04
1	P	12	HIS	CG-CD2-NE2	5.75	112.94	107.20
1	gd	64	ALA	CB-CA-C	-5.74	101.26	110.79
1	gg	99	PRO	N-CA-CB	-5.74	98.06	103.17
1	gg	194	ALA	CA-C-N	5.74	128.37	120.67
1	gg	194	ALA	C-N-CA	5.74	128.37	120.67
1	1C	132	ARG	N-CA-C	5.74	118.31	111.71
1	gn	16	SER	CA-C-O	-5.74	114.72	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gu	179	GLN	N-CA-C	5.74	118.28	111.33
1	gy	15	ILE	O-C-N	-5.74	117.59	122.65
1	gy	168	PHE	CA-C-N	5.74	129.04	120.31
1	gy	168	PHE	C-N-CA	5.74	129.04	120.31
1	gE	97	ARG	N-CA-C	5.74	123.03	110.80
1	gJ	180	GLU	CA-C-N	5.74	127.91	120.56
1	gJ	180	GLU	C-N-CA	5.74	127.91	120.56
1	gU	56	LEU	O-C-N	-5.74	116.03	122.12
1	h4	194	ALA	N-CA-C	5.74	117.31	110.19
1	he	43	LEU	N-CA-C	-5.74	105.53	112.54
1	hk	97	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	ht	156	GLY	N-CA-C	5.74	119.18	112.23
1	hN	227	LYS	CB-CA-C	-5.74	99.79	109.50
1	hX	152	ASP	CA-CB-CG	-5.74	106.86	112.60
1	ib	24	VAL	CA-C-N	5.74	128.45	120.29
1	ib	24	VAL	C-N-CA	5.74	128.45	120.29
1	1P	205	LEU	CA-C-N	5.74	130.89	121.87
1	1P	205	LEU	C-N-CA	5.74	130.89	121.87
1	is	170	LYS	CA-C-O	5.74	126.85	120.82
1	iy	175	GLU	O-C-N	-5.74	115.88	122.89
1	iz	111	LEU	N-CA-C	5.74	118.00	111.11
1	iD	72	THR	CA-C-O	-5.74	114.46	120.55
1	j0	20	LEU	CA-C-O	-5.74	114.79	120.82
1	ji	126	VAL	CA-C-N	5.74	126.36	119.98
1	ji	126	VAL	C-N-CA	5.74	126.36	119.98
1	jn	127	GLY	CA-C-N	5.74	127.97	120.28
1	jn	127	GLY	C-N-CA	5.74	127.97	120.28
1	jx	179	GLN	CB-CG-CD	5.74	122.36	112.60
1	1X	132	ARG	NH1-CZ-NH2	-5.74	111.83	119.30
1	jI	10	MET	N-CA-C	5.74	121.17	114.62
1	jK	69	LEU	CA-C-N	5.74	127.91	120.44
1	jK	69	LEU	C-N-CA	5.74	127.91	120.44
1	jM	209	ALA	O-C-N	-5.74	116.24	122.79
1	jR	51	ASP	CA-C-N	5.74	127.98	120.28
1	jR	51	ASP	C-N-CA	5.74	127.98	120.28
1	jW	213	GLU	N-CA-CB	5.74	118.34	110.01
1	k8	216	THR	CA-C-O	5.74	125.90	119.41
1	kd	216	THR	N-CA-C	5.74	120.13	113.18
1	kj	134	ILE	O-C-N	-5.74	116.20	121.94
1	kw	137	GLY	CA-C-N	5.74	127.97	120.28
1	kw	137	GLY	C-N-CA	5.74	127.97	120.28
1	kF	12	HIS	CB-CG-CD2	-5.74	123.73	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	80	TRP	CD2-CE2-CZ2	-5.74	116.66	122.40
1	l0	167	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	l1	106	GLY	CA-C-N	5.74	130.30	120.71
1	l1	106	GLY	C-N-CA	5.74	130.30	120.71
1	l2	164	TYR	CB-CA-C	5.74	120.32	110.79
1	lh	131	LYS	N-CA-C	5.74	117.54	111.28
1	li	96	MET	CG-SD-CE	-5.74	88.27	100.90
1	lC	75	GLU	CA-C-O	-5.74	114.97	121.00
1	2b	193	ASN	O-C-N	-5.74	115.02	122.37
1	2i	62	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	2z	140	LYS	O-C-N	-5.74	116.15	122.07
1	2C	212	GLU	CA-C-N	5.74	127.98	120.28
1	2C	212	GLU	C-N-CA	5.74	127.98	120.28
1	2D	165	VAL	O-C-N	-5.74	116.30	121.87
1	2F	119	THR	CA-CB-OG1	5.74	118.22	109.60
1	3C	143	ARG	CA-C-N	5.74	127.98	120.28
1	3C	143	ARG	C-N-CA	5.74	127.98	120.28
1	3F	214	MET	N-CA-C	5.74	118.48	111.82
1	3I	51	ASP	N-CA-C	5.74	117.54	111.28
1	3K	36	VAL	CB-CA-C	-5.74	103.26	112.16
1	3X	188	THR	CA-CB-OG1	5.74	118.22	109.60
1	42	229	ARG	O-C-N	-5.74	115.77	123.23
1	4e	177	ALA	CA-C-N	5.74	128.87	120.71
1	4e	177	ALA	C-N-CA	5.74	128.87	120.71
1	4v	132	ARG	NE-CZ-NH2	5.74	124.37	119.20
1	4G	195	ASN	CA-C-N	5.74	127.02	119.84
1	4G	195	ASN	C-N-CA	5.74	127.02	119.84
1	4P	31	ALA	N-CA-C	5.74	123.04	110.80
1	4R	99	PRO	CA-C-O	-5.74	114.79	121.34
1	53	48	THR	CA-CB-CG2	-5.74	100.74	110.50
1	5f	114	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	5r	192	GLN	O-C-N	-5.74	116.03	122.12
1	5s	22	ALA	CA-C-N	5.74	128.23	120.65
1	5s	22	ALA	C-N-CA	5.74	128.23	120.65
1	5y	139	ASN	CA-CB-CG	-5.74	106.86	112.60
1	5W	53	ASN	CA-C-N	5.74	127.98	120.28
1	5W	53	ASN	C-N-CA	5.74	127.98	120.28
1	6a	188	THR	CA-C-O	-5.74	112.30	120.51
1	6j	141	ILE	CB-CA-C	5.74	119.28	111.87
1	6m	76	GLU	CB-CA-C	5.74	120.32	110.79
1	6t	210	THR	O-C-N	-5.74	115.83	122.95
1	6N	117	TRP	CD2-CE2-CZ2	-5.74	116.66	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6S	143	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	70	34	PRO	N-CA-CB	5.74	108.81	103.41
1	75	26	VAL	N-CA-CB	5.74	117.27	110.55
1	7j	135	ILE	CA-C-N	5.74	127.91	120.44
1	7j	135	ILE	C-N-CA	5.74	127.91	120.44
1	7N	173	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	7U	89	GLY	CA-C-N	5.74	125.75	119.89
1	7U	89	GLY	C-N-CA	5.74	125.75	119.89
1	7Y	209	ALA	N-CA-C	5.74	119.14	110.64
1	86	219	GLN	O-C-N	-5.74	116.67	123.22
1	8b	90	PRO	N-CA-CB	5.74	109.28	103.25
1	8l	103	ASP	CA-C-N	5.74	128.33	120.46
1	8l	103	ASP	C-N-CA	5.74	128.33	120.46
1	8m	180	GLU	CA-C-N	5.74	128.33	120.46
1	8m	180	GLU	C-N-CA	5.74	128.33	120.46
1	8C	62	HIS	CB-CG-ND1	-5.74	114.08	122.70
1	8L	122	PRO	CA-C-N	5.74	127.02	119.84
1	8L	122	PRO	C-N-CA	5.74	127.02	119.84
1	8R	146	SER	CA-C-O	-5.74	114.05	120.25
1	8S	214	MET	CG-SD-CE	5.74	113.54	100.90
1	8U	37	ILE	N-CA-CB	5.74	119.25	111.21
1	92	54	THR	N-CA-C	5.74	118.32	111.71
1	9c	227	LYS	N-CA-C	5.74	118.31	111.71
1	9h	4	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	9s	171	THR	CA-C-O	-5.74	112.99	120.00
1	9L	131	LYS	O-C-N	-5.74	115.50	122.22
1	9N	84	HIS	CA-CB-CG	-5.74	108.06	113.80
1	9P	195	ASN	CA-CB-CG	5.74	118.34	112.60
1	9Y	19	THR	N-CA-CB	5.74	118.34	110.01
1	9Z	74	ASN	CA-C-O	-5.74	114.46	120.55
1	ah	25	LYS	N-CA-C	5.74	119.10	111.75
1	ai	76	GLU	CA-C-N	5.74	127.97	120.28
1	ai	76	GLU	C-N-CA	5.74	127.97	120.28
1	ap	120	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	12	10	MET	CA-C-O	-5.74	112.40	119.18
1	aK	41	SER	O-C-N	-5.74	115.60	122.15
1	b4	32	PHE	CA-CB-CG	-5.74	108.06	113.80
1	16	40	PHE	N-CA-C	5.74	117.54	111.28
1	b9	73	ILE	O-C-N	5.74	127.54	121.91
1	b9	144	MET	CA-C-O	5.74	126.62	120.70
1	bf	168	PHE	O-C-N	-5.74	115.94	122.08
1	bg	62	HIS	ND1-CG-CD2	5.74	111.84	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	121	ASN	CA-C-O	-5.74	114.35	119.86
1	bq	67	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	bx	176	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	bz	63	GLN	CA-C-O	5.74	126.44	119.38
1	bJ	120	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	bK	110	THR	CB-CA-C	5.74	120.11	109.54
1	bY	114	GLN	N-CA-C	5.74	117.22	111.07
1	c1	138	LEU	N-CA-C	5.74	117.22	111.07
1	c4	15	ILE	N-CA-C	5.74	116.82	109.30
1	c9	124	ILE	CB-CA-C	5.74	117.61	110.95
1	cl	82	ARG	NH1-CZ-NH2	-5.74	111.83	119.30
1	cm	167	ARG	N-CA-CB	5.74	118.56	110.12
1	cJ	84	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	cM	229	ARG	N-CA-CB	5.74	118.56	110.98
1	d4	109	SER	N-CA-CB	5.74	119.94	110.69
1	dm	36	VAL	CA-C-N	5.74	123.86	120.24
1	dm	36	VAL	C-N-CA	5.74	123.86	120.24
1	dp	6	LEU	CA-C-N	5.74	128.45	120.29
1	dp	6	LEU	C-N-CA	5.74	128.45	120.29
1	ds	221	VAL	N-CA-CB	-5.74	103.44	111.25
1	dy	229	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	1m	221	VAL	N-CA-C	5.74	116.48	110.62
1	dM	165	VAL	CA-C-N	5.74	128.25	120.38
1	dM	165	VAL	C-N-CA	5.74	128.25	120.38
1	dP	18	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	eh	103	ASP	CA-C-N	5.74	128.33	120.46
1	eh	103	ASP	C-N-CA	5.74	128.33	120.46
1	ei	185	MET	N-CA-C	5.74	118.48	111.82
1	el	26	VAL	CB-CA-C	-5.74	104.62	111.97
1	es	137	GLY	CA-C-N	5.74	128.25	120.44
1	es	137	GLY	C-N-CA	5.74	128.25	120.44
1	eM	208	ALA	CA-C-O	5.74	126.38	119.43
1	1w	149	SER	N-CA-CB	5.74	120.19	110.49
1	g5	121	ASN	CB-CA-C	5.74	119.64	110.62
1	q	149	SER	CA-C-N	5.74	127.80	120.56
1	q	149	SER	C-N-CA	5.74	127.80	120.56
1	r	117	TRP	CA-C-O	5.74	126.64	120.55
1	u	86	VAL	CA-C-O	5.74	126.07	120.27
1	u	195	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	G	58	THR	CA-C-O	5.74	126.57	119.79
1	T	61	GLY	O-C-N	-5.74	116.15	122.24
1	gB	25	LYS	CB-CG-CD	5.74	124.51	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gT	18	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	gZ	91	ILE	CA-CB-CG1	5.74	120.16	110.40
1	gZ	214	MET	CG-SD-CE	-5.74	88.27	100.90
1	hr	7	GLN	CA-C-N	5.74	131.80	122.21
1	hr	7	GLN	C-N-CA	5.74	131.80	122.21
1	hY	109	SER	O-C-N	5.74	129.49	123.06
1	ii	115	ILE	O-C-N	5.74	127.54	121.91
1	iv	161	PHE	N-CA-C	-5.74	106.04	113.16
1	iH	195	ASN	CA-C-N	5.74	125.87	119.32
1	iH	195	ASN	C-N-CA	5.74	125.87	119.32
1	iR	104	ILE	N-CA-C	5.74	116.48	110.62
1	j7	36	VAL	O-C-N	-5.74	116.30	121.87
1	jm	115	ILE	N-CA-C	-5.74	103.91	111.09
1	1X	213	GLU	CA-C-N	5.74	128.55	120.28
1	1X	213	GLU	C-N-CA	5.74	128.55	120.28
1	jN	159	GLU	N-CA-C	5.74	117.82	109.84
1	kn	199	LYS	CA-C-N	5.74	127.91	120.44
1	kn	199	LYS	C-N-CA	5.74	127.91	120.44
1	28	98	GLU	O-C-N	-5.74	116.86	121.80
1	lu	78	ALA	CA-C-N	5.74	127.97	120.28
1	lu	78	ALA	C-N-CA	5.74	127.97	120.28
1	lH	18	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	lJ	83	LEU	O-C-N	-5.74	115.60	122.15
1	2d	139	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	2i	203	LYS	N-CA-C	5.74	117.21	111.07
1	2i	222	GLY	O-C-N	-5.74	117.31	122.77
1	2r	56	LEU	N-CA-CB	5.74	118.56	110.12
1	2N	198	CYS	CA-C-N	5.74	127.97	120.28
1	2N	198	CYS	C-N-CA	5.74	127.97	120.28
1	35	177	ALA	N-CA-C	5.74	117.70	110.24
1	3b	226	HIS	CA-C-O	5.74	127.64	121.55
1	3A	152	ASP	CA-CB-CG	-5.74	106.86	112.60
1	3G	26	VAL	N-CA-C	5.74	115.93	110.42
1	52	212	GLU	N-CA-CB	-5.74	101.46	110.30
1	58	48	THR	CA-CB-OG1	5.74	118.21	109.60
1	5a	65	ALA	N-CA-CB	-5.74	101.68	110.12
1	5u	118	MET	O-C-N	5.74	129.85	122.39
1	5I	176	GLN	N-CA-C	5.74	119.58	112.58
1	7u	80	TRP	CA-C-O	5.74	126.64	120.55
1	7Y	62	HIS	ND1-CG-CD2	5.74	111.84	106.10
1	9o	87	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	9r	193	ASN	CA-C-O	5.74	126.23	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9F	228	ALA	N-CA-C	5.74	119.27	112.72
1	9J	20	LEU	CA-C-N	5.74	128.25	120.38
1	9J	20	LEU	C-N-CA	5.74	128.25	120.38
1	aj	154	ARG	N-CA-C	-5.74	100.57	109.24
1	aJ	27	VAL	N-CA-C	5.74	121.28	109.34
1	be	87	HIS	CA-CB-CG	-5.74	108.06	113.80
1	18	155	GLN	CA-C-O	-5.74	114.15	120.24
1	bC	38	PRO	N-CA-CB	5.74	109.37	103.23
1	cd	226	HIS	CA-CB-CG	-5.74	108.06	113.80
1	cq	164	TYR	CB-CA-C	5.74	119.89	110.88
1	cv	77	ALA	N-CA-C	5.74	118.28	111.33
1	cI	199	LYS	CA-C-O	5.74	126.83	120.63
1	e1	34	PRO	N-CA-C	-5.74	108.71	114.68
1	e8	16	SER	N-CA-C	5.74	117.75	109.48
1	ed	33	SER	N-CA-C	-5.74	103.05	108.22
1	en	170	LYS	CA-C-N	5.74	127.91	120.44
1	en	170	LYS	C-N-CA	5.74	127.91	120.44
1	eo	224	PRO	N-CA-C	-5.74	106.05	113.57
1	eB	142	VAL	N-CA-C	5.74	116.39	110.36
1	f0	44	SER	CA-C-O	5.74	126.61	119.78
1	fG	21	ASN	N-CA-C	5.74	117.54	111.28
1	0	58	THR	CA-CB-OG1	-5.74	100.99	109.60
1	0	142	VAL	CA-CB-CG1	5.74	120.16	110.40
1	a	85	PRO	O-C-N	-5.74	115.96	122.91
1	a	197	ASP	CB-CA-C	-5.74	101.86	110.88
1	U	141	ILE	CA-C-N	5.74	128.01	120.60
1	U	141	ILE	C-N-CA	5.74	128.01	120.60
1	X	27	VAL	N-CA-C	5.74	115.93	110.42
1	gf	85	PRO	CA-C-N	5.74	132.30	121.97
1	gf	85	PRO	C-N-CA	5.74	132.30	121.97
1	1C	86	VAL	N-CA-CB	5.74	118.48	110.56
1	1C	97	ARG	O-C-N	-5.74	116.31	122.85
1	gr	75	GLU	O-C-N	-5.74	116.03	122.12
1	gL	54	THR	CA-CB-OG1	5.74	118.21	109.60
1	gO	164	TYR	N-CA-C	5.74	117.62	111.36
1	hb	81	ASP	O-C-N	-5.74	114.45	122.37
1	hd	209	ALA	N-CA-C	5.74	118.66	110.10
1	hi	79	GLU	CA-C-O	-5.74	114.33	120.42
1	hs	62	HIS	N-CA-C	5.74	123.03	110.80
1	hy	129	ILE	O-C-N	-5.74	115.92	121.83
1	hD	12	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	hG	150	ILE	N-CA-C	5.74	120.08	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hG	158	LYS	CA-C-O	5.74	126.17	120.32
1	hH	35	GLU	CA-C-N	5.74	128.33	120.46
1	hH	35	GLU	C-N-CA	5.74	128.33	120.46
1	i4	92	GLU	N-CA-C	5.74	117.75	109.48
1	i8	211	LEU	CA-C-N	5.74	128.25	120.38
1	i8	211	LEU	C-N-CA	5.74	128.25	120.38
1	in	184	TRP	CB-CG-CD1	-5.74	118.29	126.90
1	is	67	GLN	CB-CG-CD	5.74	122.36	112.60
1	iE	162	ARG	NE-CZ-NH2	5.74	124.37	119.20
1	iE	220	GLY	CA-C-N	5.74	128.33	120.35
1	iE	220	GLY	C-N-CA	5.74	128.33	120.35
1	jp	120	HIS	CA-CB-CG	5.74	119.54	113.80
1	kh	54	THR	O-C-N	-5.74	116.03	122.12
1	kj	89	GLY	CA-C-N	5.74	125.67	119.76
1	kj	89	GLY	C-N-CA	5.74	125.67	119.76
1	kt	161	PHE	CB-CA-C	5.74	120.32	110.79
1	22	118	MET	CG-SD-CE	-5.74	88.27	100.90
1	kz	197	ASP	N-CA-C	5.74	117.21	111.07
1	kC	98	GLU	O-C-N	-5.74	116.19	121.30
1	24	192	GLN	CA-C-O	5.74	126.50	120.42
1	kX	84	HIS	CA-C-N	5.74	127.02	119.84
1	kX	84	HIS	C-N-CA	5.74	127.02	119.84
1	l5	103	ASP	CA-C-N	5.74	128.32	120.46
1	l5	103	ASP	C-N-CA	5.74	128.32	120.46
1	l8	172	LEU	CA-C-O	5.74	126.85	120.82
1	ld	227	LYS	N-CA-CB	5.74	118.44	110.17
1	lL	128	GLU	CA-C-N	5.74	127.79	120.56
1	lL	128	GLU	C-N-CA	5.74	127.79	120.56
1	2c	192	GLN	N-CA-C	5.74	123.03	110.80
1	2m	77	ALA	N-CA-C	5.74	117.54	111.28
1	2G	219	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	2V	116	GLY	N-CA-C	5.74	119.16	112.50
1	33	133	TRP	CG-CD2-CE3	-5.74	128.16	133.90
1	34	147	PRO	N-CA-C	5.74	120.62	111.26
1	3z	72	THR	N-CA-CB	5.74	118.66	110.16
1	3U	62	HIS	N-CA-C	5.74	119.31	111.39
1	4a	123	PRO	N-CD-CG	5.74	111.81	103.20
1	4d	50	GLN	N-CA-C	5.74	117.62	111.36
1	4k	117	TRP	N-CA-C	5.74	118.28	111.33
1	4u	134	ILE	O-C-N	-5.74	116.30	121.87
1	4y	171	THR	CA-C-N	5.74	127.97	120.28
1	4y	171	THR	C-N-CA	5.74	127.97	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	173	ARG	NH1-CZ-NH2	-5.74	111.84	119.30
1	4C	26	VAL	O-C-N	-5.74	116.30	121.87
1	4D	165	VAL	CA-CB-CG1	-5.74	100.64	110.40
1	4G	62	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	4P	96	MET	CA-C-N	5.74	128.86	120.71
1	4P	96	MET	C-N-CA	5.74	128.86	120.71
1	4X	119	THR	CA-C-O	5.74	126.61	119.78
1	5e	180	GLU	N-CA-C	5.74	118.31	111.71
1	5f	106	GLY	CA-C-O	5.74	124.69	118.95
1	5p	131	LYS	N-CA-CB	5.74	118.56	110.12
1	5q	184	TRP	CA-C-N	5.74	128.54	120.28
1	5q	184	TRP	C-N-CA	5.74	128.54	120.28
1	5H	162	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	5T	79	GLU	N-CA-C	5.74	117.54	111.28
1	5T	80	TRP	CA-C-O	5.74	126.50	120.42
1	5U	88	ALA	N-CA-C	5.74	117.47	110.41
1	5Y	128	GLU	N-CA-C	5.74	118.00	111.11
1	60	64	ALA	N-CA-CB	-5.74	101.69	110.01
1	60	146	SER	N-CA-C	5.74	122.50	109.81
1	6c	197	ASP	CA-C-O	5.74	126.64	119.12
1	6j	123	PRO	N-CA-CB	-5.74	98.59	103.36
1	6B	92	GLU	CA-C-N	5.74	125.84	119.87
1	6B	92	GLU	C-N-CA	5.74	125.84	119.87
1	6C	170	LYS	CB-CA-C	5.74	120.32	110.79
1	6H	16	SER	N-CA-C	5.74	117.12	109.83
1	6I	141	ILE	N-CA-C	5.74	116.47	110.62
1	6J	122	PRO	CA-C-N	5.74	126.06	119.92
1	6J	122	PRO	C-N-CA	5.74	126.06	119.92
1	6K	78	ALA	CA-C-N	5.74	128.25	120.44
1	6K	78	ALA	C-N-CA	5.74	128.25	120.44
1	6P	38	PRO	O-C-N	-5.74	114.89	122.64
1	6Z	92	GLU	CA-C-N	5.74	127.02	119.84
1	6Z	92	GLU	C-N-CA	5.74	127.02	119.84
1	77	219	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	7a	174	ALA	CA-C-O	5.74	126.59	120.10
1	7h	161	PHE	N-CA-C	5.74	118.28	111.33
1	7k	195	ASN	CA-CB-CG	5.74	118.34	112.60
1	7l	21	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	7G	190	LEU	CA-C-N	5.74	130.16	120.29
1	7G	190	LEU	C-N-CA	5.74	130.16	120.29
1	7L	78	ALA	CA-C-N	5.74	128.29	120.54
1	7L	78	ALA	C-N-CA	5.74	128.29	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7R	44	SER	O-C-N	-5.74	114.78	122.19
1	7V	75	GLU	N-CA-CB	5.74	118.56	110.12
1	8m	173	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	8w	121	ASN	CA-CB-CG	-5.74	106.86	112.60
1	8w	184	TRP	N-CA-C	5.74	117.62	111.36
1	95	220	GLY	CA-C-N	5.74	128.33	120.46
1	95	220	GLY	C-N-CA	5.74	128.33	120.46
1	9f	79	GLU	CA-C-N	5.74	128.44	120.29
1	9f	79	GLU	C-N-CA	5.74	128.44	120.29
1	9g	87	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	9H	203	LYS	N-CA-C	5.74	118.28	111.33
1	9N	203	LYS	CA-C-N	5.74	127.90	120.44
1	9N	203	LYS	C-N-CA	5.74	127.90	120.44
1	9R	166	ASP	N-CA-CB	-5.74	101.66	110.16
1	a3	161	PHE	N-CA-C	5.74	119.49	111.74
1	ae	149	SER	CA-C-O	5.74	126.53	120.33
1	ag	155	GLN	CB-CA-C	5.74	119.47	109.65
1	al	212	GLU	O-C-N	-5.74	116.03	122.12
1	aH	211	LEU	N-CA-C	5.74	118.00	111.11
1	aW	87	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	aY	200	THR	CA-CB-OG1	5.74	118.21	109.60
1	bd	86	VAL	CB-CA-C	-5.74	102.64	111.08
1	bd	130	TYR	CA-C-N	5.74	128.29	120.54
1	bd	130	TYR	C-N-CA	5.74	128.29	120.54
1	be	159	GLU	O-C-N	-5.74	115.84	121.18
1	bg	65	ALA	CA-C-N	5.74	127.90	120.44
1	bg	65	ALA	C-N-CA	5.74	127.90	120.44
1	bk	184	TRP	CA-C-N	5.74	128.24	120.38
1	bk	184	TRP	C-N-CA	5.74	128.24	120.38
1	bs	18	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	bG	188	THR	CA-CB-CG2	5.74	120.26	110.50
1	1a	18	ARG	N-CA-C	5.74	117.54	111.28
1	bQ	131	LYS	CA-C-N	5.74	127.90	120.44
1	bQ	131	LYS	C-N-CA	5.74	127.90	120.44
1	bW	188	THR	CA-C-N	5.74	127.97	120.28
1	bW	188	THR	C-N-CA	5.74	127.97	120.28
1	c3	87	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	c6	20	LEU	CA-C-N	5.74	127.90	120.44
1	c6	20	LEU	C-N-CA	5.74	127.90	120.44
1	c7	132	ARG	N-CA-C	5.74	117.54	111.28
1	ci	151	LEU	N-CA-C	5.74	119.54	112.54
1	cG	84	HIS	CA-CB-CG	-5.74	108.06	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cR	73	ILE	CA-CB-CG1	5.74	120.16	110.40
1	cT	69	LEU	N-CA-C	5.74	117.21	111.07
1	di	211	LEU	CA-C-N	5.74	127.97	120.28
1	di	211	LEU	C-N-CA	5.74	127.97	120.28
1	dl	79	GLU	CA-C-O	5.74	126.64	120.55
1	ds	106	GLY	CA-C-N	5.74	132.08	121.52
1	ds	106	GLY	C-N-CA	5.74	132.08	121.52
1	du	117	TRP	O-C-N	-5.74	116.16	122.07
1	dC	176	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	dF	59	VAL	CB-CA-C	-5.74	101.88	111.29
1	dF	72	THR	N-CA-C	5.74	117.21	111.07
1	dG	56	LEU	CB-CA-C	-5.74	101.26	110.79
1	dM	18	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	dW	87	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	e3	29	GLU	N-CA-CB	5.74	118.66	110.16
1	e5	110	THR	CA-CB-OG1	5.74	118.21	109.60
1	e7	12	HIS	CB-CG-CD2	-5.74	123.74	131.20
1	e9	148	THR	CB-CA-C	5.74	119.00	109.53
1	ed	167	ARG	CA-C-O	5.74	126.64	120.55
1	eh	15	ILE	CA-C-N	5.74	128.36	120.67
1	eh	15	ILE	C-N-CA	5.74	128.36	120.67
1	en	201	ILE	CA-C-N	5.74	128.44	120.29
1	en	201	ILE	C-N-CA	5.74	128.44	120.29
1	eo	167	ARG	N-CA-C	-5.74	105.10	111.36
1	eu	168	PHE	CB-CA-C	5.74	119.80	110.96
1	1r	50	GLN	CA-C-O	5.74	126.83	120.63
1	eA	178	SER	CA-C-N	5.74	127.90	120.44
1	eA	178	SER	C-N-CA	5.74	127.90	120.44
1	eF	186	THR	O-C-N	-5.74	116.03	122.12
1	eU	92	GLU	CA-C-N	5.74	125.65	119.85
1	eU	92	GLU	C-N-CA	5.74	125.65	119.85
1	1u	32	PHE	N-CA-CB	5.74	119.13	109.94
1	f5	12	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	f6	41	SER	CA-C-O	-5.74	114.33	120.42
1	1v	71	GLU	CA-C-N	5.74	127.90	120.44
1	1v	71	GLU	C-N-CA	5.74	127.90	120.44
1	fh	226	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	fl	163	ASP	CA-CB-CG	-5.74	106.86	112.60
1	fp	179	GLN	OE1-CD-NE2	5.74	128.34	122.60
1	fO	2	ILE	CB-CA-C	5.74	119.88	111.33
1	fS	120	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	fT	175	GLU	CA-C-N	5.74	128.99	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fT	175	GLU	C-N-CA	5.74	128.99	120.95
1	1B	188	THR	N-CA-C	-5.74	102.79	111.34
1	0	186	THR	N-CA-C	-5.74	105.02	111.28
1	K	110	THR	CA-CB-OG1	5.74	118.21	109.60
1	U	178	SER	CA-C-O	5.74	128.07	121.47
1	U	197	ASP	N-CA-C	5.74	117.54	111.28
1	ge	184	TRP	CA-C-N	5.74	128.29	120.54
1	ge	184	TRP	C-N-CA	5.74	128.29	120.54
1	gf	121	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	gv	97	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	gx	40	PHE	CA-CB-CG	-5.74	108.06	113.80
1	gC	206	GLY	CA-C-N	5.74	124.94	118.97
1	gC	206	GLY	C-N-CA	5.74	124.94	118.97
1	gI	26	VAL	N-CA-C	5.74	115.93	110.42
1	gJ	147	PRO	O-C-N	-5.74	114.89	122.64
1	gU	62	HIS	CB-CG-CD2	-5.74	123.74	131.20
1	gY	97	ARG	CA-C-O	5.74	127.50	121.19
1	he	154	ARG	CD-NE-CZ	-5.74	116.37	124.40
1	ho	33	SER	CA-C-O	-5.74	113.58	120.41
1	hB	155	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	hD	132	ARG	CD-NE-CZ	-5.74	116.36	124.40
1	hD	190	LEU	N-CA-C	5.74	117.53	111.28
1	hI	196	PRO	CA-C-N	5.74	128.44	120.29
1	hI	196	PRO	C-N-CA	5.74	128.44	120.29
1	hK	19	THR	CA-CB-CG2	5.74	120.25	110.50
1	hN	80	TRP	CB-CG-CD2	-5.74	118.77	126.80
1	hW	84	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	i0	201	ILE	CA-CB-CG2	5.74	120.26	110.50
1	i2	98	GLU	CA-C-O	-5.74	115.07	119.32
1	i3	132	ARG	CB-CA-C	5.74	120.31	110.79
1	ic	203	LYS	CA-C-O	5.74	126.43	119.49
1	in	109	SER	CB-CA-C	-5.74	98.87	109.37
1	ip	76	GLU	N-CA-C	5.74	117.53	111.28
1	ir	26	VAL	N-CA-C	5.74	115.93	110.42
1	iC	192	GLN	OE1-CD-NE2	5.74	128.34	122.60
1	iN	204	ALA	CA-C-O	5.74	127.04	120.90
1	iX	97	ARG	NE-CZ-NH2	5.74	124.36	119.20
1	j6	134	ILE	O-C-N	-5.74	116.30	121.87
1	jD	192	GLN	N-CA-C	5.74	117.53	111.28
1	jF	200	THR	O-C-N	-5.74	116.04	122.12
1	jL	189	LEU	N-CA-C	5.74	117.53	111.28
1	jT	52	LEU	N-CA-C	5.74	117.21	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	21	ASN	CA-CB-CG	5.74	118.34	112.60
1	kD	166	ASP	N-CA-CB	-5.74	101.69	110.01
1	kN	113	GLU	CA-C-N	5.74	127.90	120.44
1	kN	113	GLU	C-N-CA	5.74	127.90	120.44
1	l1	211	LEU	CA-C-O	5.74	126.57	119.97
1	lf	9	GLN	CA-C-N	5.74	132.50	121.54
1	lf	9	GLN	C-N-CA	5.74	132.50	121.54
1	27	120	HIS	CB-CG-CD2	-5.74	123.74	131.20
1	ll	178	SER	N-CA-C	5.74	123.02	110.80
1	lK	219	GLN	N-CA-C	5.74	118.15	110.35
1	lP	162	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	2b	102	SER	CA-C-O	5.74	126.57	119.97
1	2e	112	GLN	N-CA-CB	5.74	119.06	110.22
1	2p	16	SER	CA-C-N	5.74	125.27	119.19
1	2p	16	SER	C-N-CA	5.74	125.27	119.19
1	2s	175	GLU	O-C-N	-5.74	116.17	123.06
1	2A	20	LEU	N-CA-C	5.74	117.53	111.28
1	2D	178	SER	N-CA-C	5.74	118.15	110.35
1	2I	62	HIS	CA-CB-CG	-5.74	108.06	113.80
1	2J	93	PRO	N-CA-CB	-5.74	95.89	102.60
1	2U	193	ASN	CB-CG-ND2	-5.74	107.79	116.40
1	2U	195	ASN	N-CA-C	5.74	118.46	110.20
1	2Y	40	PHE	CA-C-N	5.74	127.97	120.28
1	2Y	40	PHE	C-N-CA	5.74	127.97	120.28
1	2Y	109	SER	CA-C-O	5.74	126.32	120.24
1	30	72	THR	N-CA-C	5.74	117.53	111.28
1	36	184	TRP	CZ3-CH2-CZ2	-5.74	114.04	121.50
1	3j	200	THR	N-CA-C	5.74	117.54	111.28
1	3u	195	ASN	CA-C-N	5.74	125.86	119.32
1	3u	195	ASN	C-N-CA	5.74	125.86	119.32
1	3N	87	HIS	CB-CG-CD2	-5.74	123.74	131.20
1	4d	133	TRP	CA-C-N	5.74	127.90	120.56
1	4d	133	TRP	C-N-CA	5.74	127.90	120.56
1	4e	174	ALA	O-C-N	-5.74	116.04	122.12
1	4h	223	GLY	O-C-N	-5.74	116.03	121.77
1	4L	99	PRO	N-CA-C	5.74	120.09	111.14
1	4N	55	MET	CG-SD-CE	-5.74	88.28	100.90
1	4V	165	VAL	CB-CA-C	-5.74	104.56	111.85
1	53	176	GLN	N-CA-CB	-5.74	100.90	110.37
1	5i	53	ASN	N-CA-C	5.74	117.53	111.28
1	5o	23	TRP	CA-C-N	5.74	128.32	120.46
1	5o	23	TRP	C-N-CA	5.74	128.32	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5B	146	SER	CA-C-O	-5.74	114.06	119.80
1	5H	40	PHE	CA-CB-CG	-5.74	108.06	113.80
1	5I	19	THR	CA-C-N	5.74	128.44	120.29
1	5I	19	THR	C-N-CA	5.74	128.44	120.29
1	61	221	VAL	CB-CA-C	-5.74	103.36	111.28
1	6C	169	TYR	N-CA-C	5.74	117.53	111.28
1	7s	57	ASN	N-CA-C	5.74	120.28	113.16
1	7u	215	MET	N-CA-C	5.74	118.48	111.82
1	7F	35	GLU	CA-C-O	5.74	125.36	119.05
1	7Y	114	GLN	O-C-N	-5.74	116.12	122.09
1	8e	108	THR	O-C-N	-5.74	114.76	122.22
1	8g	82	ARG	NE-CZ-NH2	-5.74	114.04	119.20
1	8n	173	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	8w	187	GLU	CB-CG-CD	5.74	122.35	112.60
1	8J	191	VAL	CA-C-N	5.74	132.50	121.54
1	8J	191	VAL	C-N-CA	5.74	132.50	121.54
1	8L	168	PHE	CA-CB-CG	5.74	119.54	113.80
1	8O	192	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	8X	100	ARG	NE-CZ-NH2	-5.74	114.03	119.20
1	9d	56	LEU	CA-C-N	5.74	128.54	120.28
1	9d	56	LEU	C-N-CA	5.74	128.54	120.28
1	9d	134	ILE	CA-C-O	-5.74	115.09	121.17
1	9p	183	ASN	CA-CB-CG	-5.74	106.86	112.60
1	9v	178	SER	CA-C-N	5.74	128.44	120.29
1	9v	178	SER	C-N-CA	5.74	128.44	120.29
1	9I	229	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	9L	199	LYS	O-C-N	-5.74	116.16	122.07
1	9W	176	GLN	CA-C-N	5.74	132.50	121.54
1	9W	176	GLN	C-N-CA	5.74	132.50	121.54
1	aj	189	LEU	CA-C-N	5.74	127.90	120.44
1	aj	189	LEU	C-N-CA	5.74	127.90	120.44
1	aB	185	MET	N-CA-CB	5.74	118.67	110.06
1	aE	36	VAL	O-C-N	-5.74	115.92	121.83
1	aE	146	SER	O-C-N	-5.74	116.67	121.38
1	aJ	224	PRO	N-CA-C	5.74	120.09	111.14
1	aL	108	THR	N-CA-CB	5.74	119.28	110.61
1	aT	99	PRO	CA-C-O	-5.74	114.42	121.31
1	aU	149	SER	O-C-N	-5.74	114.96	122.59
1	15	171	THR	CA-CB-OG1	5.74	118.21	109.60
1	bd	185	MET	N-CA-C	5.74	120.78	111.37
1	bx	7	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	bB	24	VAL	N-CA-C	5.74	116.47	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bE	104	ILE	N-CA-C	5.74	116.39	110.36
1	bO	131	LYS	O-C-N	-5.74	116.04	122.12
1	bW	197	ASP	O-C-N	-5.74	116.04	122.12
1	c2	5	ASN	CA-CB-CG	5.74	118.34	112.60
1	ck	228	ALA	N-CA-C	5.74	118.16	110.35
1	cw	98	GLU	CA-C-N	5.74	125.93	119.90
1	cw	98	GLU	C-N-CA	5.74	125.93	119.90
1	cK	14	ALA	CA-C-N	5.74	128.26	120.63
1	cK	14	ALA	C-N-CA	5.74	128.26	120.63
1	cV	189	LEU	CA-C-O	5.74	126.63	120.55
1	d8	9	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	de	226	HIS	N-CA-C	5.74	119.55	111.52
1	du	215	MET	O-C-N	-5.74	116.12	122.09
1	dy	132	ARG	O-C-N	-5.74	116.04	122.12
1	dQ	133	TRP	O-C-N	-5.74	115.89	122.09
1	dS	96	MET	N-CA-CB	-5.74	100.91	109.69
1	dS	150	ILE	CA-C-N	5.74	128.76	120.38
1	dS	150	ILE	C-N-CA	5.74	128.76	120.38
1	dV	203	LYS	N-CA-C	5.74	117.53	111.28
1	e3	36	VAL	CA-C-O	5.74	123.95	118.90
1	eb	68	MET	CA-C-N	5.74	127.90	120.44
1	eb	68	MET	C-N-CA	5.74	127.90	120.44
1	1p	115	ILE	CA-C-N	5.74	126.47	119.99
1	1p	115	ILE	C-N-CA	5.74	126.47	119.99
1	ej	68	MET	CG-SD-CE	-5.74	88.28	100.90
1	em	140	LYS	CA-C-N	5.74	127.79	120.56
1	em	140	LYS	C-N-CA	5.74	127.79	120.56
1	eo	190	LEU	CA-C-N	5.74	128.57	120.42
1	eo	190	LEU	C-N-CA	5.74	128.57	120.42
1	ep	146	SER	CA-C-N	5.74	125.69	119.78
1	ep	146	SER	C-N-CA	5.74	125.69	119.78
1	1r	112	GLN	CA-C-N	5.74	127.90	120.44
1	1r	112	GLN	C-N-CA	5.74	127.90	120.44
1	1r	117	TRP	CA-C-N	5.74	129.03	120.31
1	1r	117	TRP	C-N-CA	5.74	129.03	120.31
1	ex	229	ARG	NH1-CZ-NH2	-5.74	111.84	119.30
1	eC	138	LEU	CA-C-N	5.74	127.97	120.28
1	eC	138	LEU	C-N-CA	5.74	127.97	120.28
1	eC	172	LEU	CA-C-O	5.74	126.63	120.55
1	eP	41	SER	N-CA-C	5.74	117.54	111.28
1	eR	25	LYS	O-C-N	-5.74	115.21	122.27
1	1u	148	THR	N-CA-C	-5.74	99.42	108.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f0	138	LEU	CA-C-O	-5.74	114.34	120.42
1	f4	153	ILE	O-C-N	-5.74	116.55	122.63
1	1w	179	GLN	N-CA-C	5.74	117.54	111.28
1	fo	79	GLU	O-C-N	-5.74	115.89	122.09
1	ft	177	ALA	CA-C-N	5.74	129.26	121.05
1	ft	177	ALA	C-N-CA	5.74	129.26	121.05
1	fD	55	MET	N-CA-C	5.74	117.21	111.07
1	g5	71	GLU	N-CA-C	5.74	118.27	111.33
1	1	211	LEU	CA-C-N	5.74	128.24	120.38
1	1	211	LEU	C-N-CA	5.74	128.24	120.38
1	I	185	MET	CG-SD-CE	-5.74	88.28	100.90
1	M	224	PRO	CB-CA-C	5.74	118.85	111.56
1	S	57	ASN	CA-CB-CG	-5.74	106.86	112.60
1	U	194	ALA	CB-CA-C	5.74	119.80	109.64
1	gl	3	VAL	N-CA-C	5.74	121.27	109.34
1	hc	83	LEU	N-CA-C	-5.74	105.54	112.54
1	i2	76	GLU	N-CA-C	5.74	117.53	111.28
1	ia	140	LYS	N-CA-CB	-5.74	101.69	110.12
1	id	223	GLY	CA-C-N	5.74	127.01	119.84
1	id	223	GLY	C-N-CA	5.74	127.01	119.84
1	ie	200	THR	CA-C-O	5.74	127.04	120.90
1	if	197	ASP	CA-CB-CG	5.74	118.34	112.60
1	ir	169	TYR	N-CA-C	5.74	118.47	111.82
1	jh	77	ALA	O-C-N	-5.74	115.61	122.15
1	ju	226	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	jJ	150	ILE	CA-C-N	5.74	128.54	120.28
1	jJ	150	ILE	C-N-CA	5.74	128.54	120.28
1	jK	169	TYR	O-C-N	-5.74	116.04	122.12
1	jR	57	ASN	CB-CA-C	-5.74	101.27	110.79
1	jT	167	ARG	CA-C-N	5.74	127.97	120.28
1	jT	167	ARG	C-N-CA	5.74	127.97	120.28
1	k9	73	ILE	N-CA-CB	5.74	117.26	110.55
1	kM	124	ILE	N-CA-C	-5.74	102.34	107.56
1	kM	128	GLU	O-C-N	-5.74	116.04	122.12
1	kN	167	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	kN	229	ARG	O-C-N	5.74	129.08	122.25
1	27	195	ASN	CA-C-N	5.74	125.86	119.32
1	27	195	ASN	C-N-CA	5.74	125.86	119.32
1	lt	164	TYR	CA-C-N	5.74	128.62	120.53
1	lt	164	TYR	C-N-CA	5.74	128.62	120.53
1	lO	132	ARG	O-C-N	-5.74	116.16	122.07
1	lQ	132	ARG	NE-CZ-NH1	5.74	127.24	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2h	13	GLN	CA-C-N	5.74	128.86	120.71
1	2h	13	GLN	C-N-CA	5.74	128.86	120.71
1	2s	75	GLU	CA-C-O	-5.74	114.80	120.82
1	2u	190	LEU	N-CA-C	5.74	117.53	111.28
1	2D	150	ILE	CA-C-N	5.74	128.29	120.54
1	2D	150	ILE	C-N-CA	5.74	128.29	120.54
1	36	192	GLN	CB-CG-CD	-5.74	102.85	112.60
1	3g	148	THR	O-C-N	-5.74	116.61	123.27
1	3s	160	PRO	N-CA-C	5.74	124.29	112.47
1	3z	112	GLN	CG-CD-OE1	5.74	132.27	120.80
1	3X	202	LEU	CA-C-N	5.74	127.90	120.44
1	3X	202	LEU	C-N-CA	5.74	127.90	120.44
1	4y	116	GLY	N-CA-C	5.74	119.61	112.73
1	4D	45	GLU	N-CA-C	5.74	119.09	111.75
1	4J	116	GLY	CA-C-N	5.74	129.03	120.31
1	4J	116	GLY	C-N-CA	5.74	129.03	120.31
1	4W	109	SER	CA-C-O	5.74	126.69	120.32
1	4X	211	LEU	O-C-N	-5.74	116.04	122.12
1	5n	167	ARG	O-C-N	5.74	128.93	122.22
1	5s	9	GLN	O-C-N	-5.74	116.68	123.22
1	5S	71	GLU	N-CA-C	5.74	117.53	111.28
1	6f	66	MET	CA-C-N	5.74	127.97	120.28
1	6f	66	MET	C-N-CA	5.74	127.97	120.28
1	6n	182	LYS	CA-C-N	5.74	127.97	120.28
1	6n	182	LYS	C-N-CA	5.74	127.97	120.28
1	77	184	TRP	CH2-CZ2-CE2	5.74	124.96	117.50
1	7d	183	ASN	CB-CA-C	-5.74	101.27	110.79
1	7p	172	LEU	N-CA-C	5.74	117.34	111.14
1	7z	153	ILE	O-C-N	-5.74	117.98	122.97
1	8t	67	GLN	O-C-N	-5.74	116.16	122.07
1	8u	75	GLU	N-CA-C	5.74	117.21	111.07
1	8U	143	ARG	CD-NE-CZ	-5.74	116.37	124.40
1	93	168	PHE	N-CA-C	5.74	117.99	111.11
1	9u	39	MET	CA-C-N	5.74	127.97	120.28
1	9u	39	MET	C-N-CA	5.74	127.97	120.28
1	a4	72	THR	N-CA-C	5.74	117.21	111.07
1	aj	50	GLN	N-CA-C	5.74	117.61	111.36
1	aj	104	ILE	O-C-N	-5.74	116.31	121.87
1	13	87	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	aF	181	VAL	N-CA-CB	5.74	118.34	110.54
1	aM	30	LYS	CG-CD-CE	5.74	124.50	111.30
1	b3	87	HIS	CB-CG-CD2	5.74	138.66	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	16	37	ILE	N-CA-CB	5.74	119.24	111.21
1	bz	212	GLU	CA-C-O	5.74	126.63	120.55
1	cc	103	ASP	CA-C-N	5.74	128.32	120.46
1	cc	103	ASP	C-N-CA	5.74	128.32	120.46
1	cM	212	GLU	CA-C-O	-5.74	114.47	120.55
1	df	40	PHE	CA-CB-CG	5.74	119.54	113.80
1	dL	153	ILE	CA-C-N	5.74	132.50	121.54
1	dL	153	ILE	C-N-CA	5.74	132.50	121.54
1	dN	8	GLY	O-C-N	-5.74	117.14	123.05
1	dY	16	SER	CA-C-O	-5.74	114.96	119.66
1	ey	82	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	eH	68	MET	N-CA-C	5.74	117.61	111.36
1	f5	87	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	fe	12	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	1w	15	ILE	CA-C-N	5.74	128.36	120.39
1	1w	15	ILE	C-N-CA	5.74	128.36	120.39
1	fV	147	PRO	N-CA-CB	-5.74	97.23	103.25
1	g4	18	ARG	NE-CZ-NH2	-5.74	114.04	119.20
1	a	103	ASP	N-CA-CB	5.74	118.30	109.98
1	d	201	ILE	CA-C-N	5.74	127.90	120.44
1	d	201	ILE	C-N-CA	5.74	127.90	120.44
1	n	66	MET	N-CA-C	5.74	118.27	111.33
1	s	120	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	gp	62	HIS	N-CA-C	5.74	119.48	111.74
1	gu	226	HIS	CA-C-O	5.74	128.09	120.98
1	gz	64	ALA	N-CA-C	5.74	117.99	111.11
1	gL	198	CYS	CA-C-O	5.74	125.29	118.69
1	hj	91	ILE	O-C-N	-5.74	116.46	123.00
1	hm	112	GLN	CA-C-N	5.74	128.44	120.29
1	hm	112	GLN	C-N-CA	5.74	128.44	120.29
1	hs	143	ARG	O-C-N	-5.74	116.04	122.12
1	io	47	ALA	N-CA-C	5.74	118.55	110.23
1	iu	12	HIS	N-CA-C	5.74	118.56	109.96
1	ix	12	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	1R	109	SER	N-CA-C	5.74	118.56	109.50
1	jf	91	ILE	O-C-N	-5.74	115.54	122.59
1	jt	67	GLN	O-C-N	-5.74	115.22	122.27
1	jD	68	MET	CG-SD-CE	-5.74	88.28	100.90
1	jL	115	ILE	O-C-N	-5.74	116.31	121.87
1	jR	87	HIS	CG-CD2-NE2	5.74	112.94	107.20
1	jS	190	LEU	N-CA-C	5.74	117.53	111.28
1	jT	155	GLN	N-CA-C	5.74	118.64	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jV	100	ARG	CD-NE-CZ	5.74	132.43	124.40
1	1Z	94	GLY	CA-C-O	5.74	125.12	119.04
1	1Z	167	ARG	N-CA-C	5.74	118.27	111.33
1	k4	141	ILE	CA-C-O	5.74	126.92	120.95
1	kc	51	ASP	O-C-N	5.74	127.98	122.07
1	ko	98	GLU	CB-CG-CD	5.74	122.35	112.60
1	kD	33	SER	N-CA-CB	5.74	121.50	111.18
1	kW	192	GLN	CA-C-N	5.74	131.75	121.66
1	kW	192	GLN	C-N-CA	5.74	131.75	121.66
1	li	226	HIS	N-CA-C	5.74	117.53	111.28
1	lm	63	GLN	CG-CD-NE2	5.74	125.00	116.40
1	lt	38	PRO	CB-CA-C	5.74	120.48	112.11
1	lK	113	GLU	CA-C-N	5.74	128.76	120.79
1	lK	113	GLU	C-N-CA	5.74	128.76	120.79
1	lP	80	TRP	CG-CD2-CE3	5.74	139.64	133.90
1	lR	36	VAL	CA-C-N	5.74	124.92	120.33
1	lR	36	VAL	C-N-CA	5.74	124.92	120.33
1	2m	161	PHE	CA-CB-CG	5.74	119.54	113.80
1	2T	61	GLY	CA-C-N	5.74	130.55	122.46
1	2T	61	GLY	C-N-CA	5.74	130.55	122.46
1	35	20	LEU	N-CA-C	5.74	120.83	111.37
1	3i	55	MET	N-CA-CB	5.74	118.33	110.01
1	3m	40	PHE	N-CA-CB	5.74	118.65	110.16
1	3p	141	ILE	N-CA-CB	5.74	118.34	110.54
1	3u	3	VAL	N-CA-CB	-5.74	102.83	112.47
1	3H	35	GLU	CA-C-O	5.74	126.45	119.11
1	3H	140	LYS	O-C-N	-5.74	115.51	122.22
1	3W	175	GLU	CA-C-O	-5.74	114.38	120.92
1	42	105	ALA	N-CA-CB	-5.74	101.63	110.46
1	4n	162	ARG	N-CA-C	5.74	118.27	111.33
1	4p	134	ILE	CA-C-N	5.74	128.32	120.46
1	4p	134	ILE	C-N-CA	5.74	128.32	120.46
1	4G	70	LYS	O-C-N	-5.74	115.61	122.15
1	4R	45	GLU	N-CA-C	5.74	117.81	108.63
1	50	45	GLU	N-CA-CB	5.74	119.22	109.87
1	53	38	PRO	CA-C-N	5.74	127.90	120.44
1	53	38	PRO	C-N-CA	5.74	127.90	120.44
1	57	23	TRP	CZ3-CH2-CZ2	-5.74	114.05	121.50
1	5d	104	ILE	N-CA-CB	5.74	117.26	110.55
1	5e	177	ALA	N-CA-C	5.74	117.70	110.24
1	5j	37	ILE	CA-C-N	5.74	127.01	119.84
1	5j	37	ILE	C-N-CA	5.74	127.01	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5o	120	HIS	N-CA-C	5.74	118.15	110.35
1	5s	169	TYR	CA-C-N	5.74	128.43	120.29
1	5s	169	TYR	C-N-CA	5.74	128.43	120.29
1	5E	136	LEU	N-CA-C	5.74	117.99	111.11
1	5G	105	ALA	CA-C-O	5.74	126.37	119.43
1	5I	110	THR	O-C-N	-5.74	116.50	123.10
1	61	23	TRP	CE2-CD2-CE3	5.74	124.54	118.80
1	69	11	VAL	N-CA-CB	5.74	120.42	110.96
1	6A	140	LYS	CA-C-N	5.74	127.79	120.56
1	6A	140	LYS	C-N-CA	5.74	127.79	120.56
1	6H	143	ARG	NE-CZ-NH1	5.74	127.23	121.50
1	6Q	62	HIS	ND1-CG-CD2	5.74	111.83	106.10
1	6S	43	LEU	CA-C-O	5.74	126.01	119.18
1	75	185	MET	CA-C-O	5.74	126.63	120.55
1	7k	162	ARG	NE-CZ-NH1	5.74	127.23	121.50
1	7m	112	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	7o	23	TRP	CB-CG-CD1	-5.74	118.30	126.90
1	7A	84	HIS	CA-CB-CG	-5.74	108.06	113.80
1	7A	154	ARG	NE-CZ-NH1	5.74	127.24	121.50
1	7I	82	ARG	NE-CZ-NH2	5.74	124.36	119.20
1	7U	20	LEU	N-CA-C	5.74	117.53	111.28
1	8w	134	ILE	N-CA-C	5.74	116.38	110.36
1	8z	159	GLU	CA-C-O	-5.74	113.81	119.49
1	8B	155	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	8E	104	ILE	O-C-N	5.74	127.43	121.87
1	8Z	169	TYR	CB-CA-C	5.74	119.88	110.88
1	9j	154	ARG	CG-CD-NE	-5.74	99.38	112.00
1	9A	18	ARG	N-CA-C	5.74	117.21	111.07
1	9L	120	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	9Z	138	LEU	CA-C-N	5.74	128.43	120.29
1	9Z	138	LEU	C-N-CA	5.74	128.43	120.29
1	Z	40	PHE	CA-C-O	5.74	126.63	120.55
1	10	208	ALA	N-CA-C	5.74	119.90	113.02
1	as	66	MET	CA-C-N	5.74	127.97	120.28
1	as	66	MET	C-N-CA	5.74	127.97	120.28
1	aw	171	THR	N-CA-C	5.74	117.61	111.36
1	ax	7	GLN	CB-CG-CD	-5.74	102.85	112.60
1	ay	114	GLN	CA-C-O	-5.74	114.47	120.55
1	aE	207	PRO	CA-C-N	5.74	131.18	121.14
1	aE	207	PRO	C-N-CA	5.74	131.18	121.14
1	b4	12	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	bd	72	THR	N-CA-C	5.74	117.53	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	73	ILE	N-CA-C	5.74	115.93	110.42
1	bn	141	ILE	N-CA-C	5.74	116.47	110.62
1	bD	167	ARG	NE-CZ-NH2	5.74	124.36	119.20
1	bQ	142	VAL	CA-C-O	-5.74	114.68	121.05
1	1b	98	GLU	CA-C-O	-5.74	114.20	120.17
1	c1	50	GLN	OE1-CD-NE2	-5.74	116.86	122.60
1	c8	22	ALA	CA-C-O	-5.74	114.34	120.42
1	ch	145	TYR	N-CA-C	-5.74	105.87	112.92
1	ci	96	MET	CA-C-N	5.74	128.86	120.71
1	ci	96	MET	C-N-CA	5.74	128.86	120.71
1	1e	70	LYS	N-CA-C	5.74	117.53	111.28
1	cy	181	VAL	CB-CA-C	-5.74	104.63	111.97
1	cI	145	TYR	CA-CB-CG	5.74	124.22	113.90
1	cY	103	ASP	CA-C-N	5.74	127.79	120.56
1	cY	103	ASP	C-N-CA	5.74	127.79	120.56
1	d3	190	LEU	O-C-N	5.74	128.20	122.12
1	d4	37	ILE	N-CA-CB	5.74	114.36	110.52
1	dj	217	ALA	CA-C-O	-5.74	114.88	121.19
1	dk	28	GLU	N-CA-C	5.74	117.22	110.97
1	dn	115	ILE	O-C-N	-5.74	116.31	121.87
1	du	182	LYS	CA-C-N	5.74	127.90	120.44
1	du	182	LYS	C-N-CA	5.74	127.90	120.44
1	dv	67	GLN	N-CA-C	5.74	118.27	111.33
1	dL	113	GLU	N-CA-CB	5.74	118.65	110.16
1	dM	97	ARG	N-CA-C	-5.74	100.02	108.79
1	dT	182	LYS	CG-CD-CE	5.74	124.49	111.30
1	eb	210	THR	O-C-N	-5.74	116.04	122.75
1	ec	200	THR	CA-C-N	5.74	128.32	120.46
1	ec	200	THR	C-N-CA	5.74	128.32	120.46
1	ee	183	ASN	CA-CB-CG	-5.74	106.86	112.60
1	ei	179	GLN	CB-CA-C	5.74	120.31	110.79
1	eu	145	TYR	CB-CG-CD1	-5.74	112.20	120.80
1	ey	113	GLU	N-CA-C	-5.74	105.11	111.36
1	eU	65	ALA	N-CA-C	5.74	118.02	111.02
1	eW	51	ASP	CA-C-O	5.74	126.84	120.82
1	eZ	83	LEU	N-CA-C	5.74	117.99	111.11
1	f0	120	HIS	ND1-CE1-NE2	5.74	114.14	108.40
1	f6	92	GLU	O-C-N	-5.74	115.39	121.30
1	ff	48	THR	N-CA-CB	5.74	117.69	109.78
1	fr	199	LYS	N-CA-C	5.74	118.27	111.33
1	ft	120	HIS	CE1-NE2-CD2	-5.74	103.26	109.00
1	fz	116	GLY	CA-C-N	5.74	128.24	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fz	116	GLY	C-N-CA	5.74	128.24	120.38
1	fQ	219	GLN	O-C-N	-5.74	115.84	122.95
1	1	88	ALA	CB-CA-C	-5.74	100.34	109.80
1	k	81	ASP	N-CA-C	-5.74	105.78	112.89
1	x	37	ILE	O-C-N	-5.74	114.56	121.10
1	x	68	MET	CA-C-N	5.74	127.90	120.44
1	x	68	MET	C-N-CA	5.74	127.90	120.44
1	x	183	ASN	OD1-CG-ND2	-5.74	116.86	122.60
1	D	103	ASP	N-CA-C	5.74	117.21	111.07
1	F	190	LEU	O-C-N	5.74	128.00	122.03
1	N	201	ILE	N-CA-C	5.74	115.92	110.42
1	gk	9	GLN	CA-C-O	-5.73	112.71	119.48
1	gy	121	ASN	CA-CB-CG	5.73	118.33	112.60
1	hs	74	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	ht	56	LEU	CA-C-N	5.73	127.96	120.28
1	ht	56	LEU	C-N-CA	5.73	127.96	120.28
1	hx	82	ARG	CA-C-N	5.73	128.43	120.29
1	hx	82	ARG	C-N-CA	5.73	128.43	120.29
1	1L	143	ARG	CB-CA-C	-5.73	101.88	110.88
1	hT	135	ILE	O-C-N	-5.73	116.27	121.89
1	i0	199	LYS	N-CA-CB	5.73	118.32	110.01
1	1Q	139	ASN	CA-C-N	5.73	128.24	120.44
1	1Q	139	ASN	C-N-CA	5.73	128.24	120.44
1	iz	50	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	1S	84	HIS	CA-C-N	5.73	125.75	119.90
1	1S	84	HIS	C-N-CA	5.73	125.75	119.90
1	j7	84	HIS	CA-C-O	5.73	126.19	120.28
1	jn	137	GLY	O-C-N	-5.73	115.75	122.34
1	jo	123	PRO	N-CA-CB	5.73	108.30	103.25
1	jv	200	THR	N-CA-C	5.73	117.53	111.28
1	jx	95	GLN	N-CA-CB	-5.73	101.57	111.55
1	kd	146	SER	N-CA-CB	5.73	117.74	110.23
1	kf	137	GLY	CA-C-N	5.73	128.43	120.29
1	kf	137	GLY	C-N-CA	5.73	128.43	120.29
1	kl	49	PRO	N-CA-CB	-5.73	98.00	103.51
1	kA	134	ILE	CA-C-N	5.73	128.56	120.42
1	kA	134	ILE	C-N-CA	5.73	128.56	120.42
1	kQ	76	GLU	N-CA-C	5.73	117.61	111.36
1	lk	68	MET	CA-C-O	5.73	126.63	120.55
1	lw	98	GLU	CA-C-O	-5.73	114.36	119.75
1	lA	121	ASN	OD1-CG-ND2	5.73	128.33	122.60
1	2y	121	ASN	CB-CA-C	5.73	117.79	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3e	110	THR	N-CA-C	-5.73	101.53	110.42
1	3t	40	PHE	CA-C-O	5.73	126.50	120.42
1	3Q	97	ARG	CG-CD-NE	-5.73	99.39	112.00
1	3S	20	LEU	CA-C-O	5.73	127.03	120.90
1	3X	62	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	4q	126	VAL	CA-C-N	5.73	126.31	120.00
1	4q	126	VAL	C-N-CA	5.73	126.31	120.00
1	4v	142	VAL	CA-C-O	5.73	126.66	120.47
1	4z	110	THR	O-C-N	-5.73	115.97	122.68
1	50	105	ALA	CA-C-N	5.73	131.33	121.07
1	50	105	ALA	C-N-CA	5.73	131.33	121.07
1	5b	75	GLU	CA-C-N	5.73	128.43	120.29
1	5b	75	GLU	C-N-CA	5.73	128.43	120.29
1	5h	87	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	5n	222	GLY	O-C-N	-5.73	117.30	122.86
1	5A	128	GLU	CA-C-O	-5.73	114.47	120.55
1	65	162	ARG	CA-C-O	5.73	126.82	120.63
1	69	110	THR	O-C-N	-5.73	116.55	123.03
1	6e	195	ASN	CB-CA-C	5.73	118.50	109.27
1	6l	88	ALA	N-CA-C	5.73	118.90	110.30
1	6A	49	PRO	CB-CA-C	5.73	121.02	111.56
1	7F	55	MET	CA-C-O	5.73	127.38	121.07
1	87	116	GLY	CA-C-N	5.73	127.96	120.28
1	87	116	GLY	C-N-CA	5.73	127.96	120.28
1	8d	229	ARG	N-CA-C	5.73	118.55	110.23
1	8e	24	VAL	N-CA-C	-5.73	104.77	110.62
1	8W	6	LEU	CA-C-O	5.73	126.42	119.31
1	96	218	CYS	N-CA-CB	5.73	120.18	110.49
1	97	173	ARG	CA-C-O	5.73	126.43	119.38
1	9G	30	LYS	O-C-N	5.73	129.51	122.34
1	9G	69	LEU	CA-C-N	5.73	128.24	120.38
1	9G	69	LEU	C-N-CA	5.73	128.24	120.38
1	9P	226	HIS	O-C-N	5.73	129.79	122.39
1	9U	47	ALA	N-CA-C	5.73	118.77	110.28
1	9Z	45	GLU	N-CA-C	5.73	118.50	109.96
1	as	81	ASP	CA-C-O	5.73	126.63	120.55
1	15	142	VAL	N-CA-C	5.73	116.47	110.62
1	b5	104	ILE	O-C-N	-5.73	116.29	121.91
1	18	5	ASN	CA-CB-CG	-5.73	106.87	112.60
1	bF	91	ILE	CA-C-O	-5.73	114.28	120.47
1	cv	28	GLU	CA-C-N	5.73	129.03	120.31
1	cv	28	GLU	C-N-CA	5.73	129.03	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	101	GLY	O-C-N	-5.73	116.69	122.19
1	df	51	ASP	N-CA-C	5.73	117.53	111.28
1	dk	119	THR	CB-CA-C	-5.73	101.03	110.72
1	dw	37	ILE	CA-C-O	-5.73	113.98	118.85
1	dy	132	ARG	NE-CZ-NH2	-5.73	114.04	119.20
1	dY	58	THR	O-C-N	-5.73	114.55	122.46
1	e0	82	ARG	N-CA-C	-5.73	104.64	111.69
1	e4	54	THR	O-C-N	-5.73	115.90	122.09
1	ej	43	LEU	N-CA-C	5.73	118.27	111.33
1	en	171	THR	CA-CB-CG2	5.73	120.25	110.50
1	eR	168	PHE	N-CA-CB	-5.73	101.70	110.01
1	f2	63	GLN	N-CA-CB	5.73	119.17	110.28
1	f7	183	ASN	O-C-N	-5.73	115.61	122.15
1	fi	70	LYS	CG-CD-CE	5.73	124.49	111.30
1	fD	54	THR	CA-C-N	5.73	127.89	120.44
1	fD	54	THR	C-N-CA	5.73	127.89	120.44
1	1y	222	GLY	O-C-N	5.73	127.46	122.64
1	fK	152	ASP	O-C-N	-5.73	114.46	122.37
1	d	98	GLU	N-CA-C	5.73	116.92	109.64
1	w	41	SER	CA-C-N	5.73	129.03	120.31
1	w	41	SER	C-N-CA	5.73	129.03	120.31
1	P	130	TYR	CB-CA-C	5.73	120.60	110.85
1	T	89	GLY	CA-C-N	5.73	127.01	119.84
1	T	89	GLY	C-N-CA	5.73	127.01	119.84
1	5	223	GLY	N-CA-C	5.73	124.04	112.34
1	gb	218	CYS	N-CA-CB	5.73	120.18	110.49
1	gj	84	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	1D	170	LYS	CB-CA-C	-5.73	101.27	110.79
1	gD	175	GLU	CA-C-N	5.73	130.72	122.35
1	gD	175	GLU	C-N-CA	5.73	130.72	122.35
1	gN	185	MET	O-C-N	-5.73	115.90	122.09
1	gN	194	ALA	N-CA-C	5.73	117.69	110.24
1	gP	152	ASP	CB-CA-C	5.73	119.83	110.95
1	1G	84	HIS	CA-CB-CG	5.73	119.53	113.80
1	gY	92	GLU	O-C-N	-5.73	114.73	121.32
1	h3	196	PRO	CA-C-N	5.73	127.89	120.44
1	h3	196	PRO	C-N-CA	5.73	127.89	120.44
1	1H	132	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	hg	211	LEU	O-C-N	-5.73	116.04	122.12
1	hh	40	PHE	CA-C-N	5.73	127.89	120.44
1	hh	40	PHE	C-N-CA	5.73	127.89	120.44
1	hm	74	ASN	CA-CB-CG	-5.73	106.87	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hr	42	ALA	CA-C-O	-5.73	114.80	120.82
1	1K	47	ALA	O-C-N	-5.73	116.18	123.06
1	hM	10	MET	O-C-N	-5.73	114.97	122.59
1	i4	100	ARG	CA-C-N	5.73	126.30	119.94
1	i4	100	ARG	C-N-CA	5.73	126.30	119.94
1	ia	194	ALA	CA-C-N	5.73	128.82	120.51
1	ia	194	ALA	C-N-CA	5.73	128.82	120.51
1	ib	205	LEU	CA-C-O	5.73	126.45	119.11
1	if	134	ILE	O-C-N	-5.73	115.94	121.90
1	iq	62	HIS	ND1-CG-CD2	5.73	111.83	106.10
1	1S	154	ARG	CB-CG-CD	5.73	124.48	111.30
1	jb	87	HIS	O-C-N	-5.73	116.39	123.33
1	jf	143	ARG	NE-CZ-NH2	5.73	124.36	119.20
1	1W	23	TRP	CE2-CD2-CE3	-5.73	113.07	118.80
1	jB	203	LYS	N-CA-CB	5.73	118.55	110.12
1	1X	225	GLY	CA-C-N	5.73	128.90	120.82
1	1X	225	GLY	C-N-CA	5.73	128.90	120.82
1	jL	178	SER	O-C-N	-5.73	115.89	122.89
1	ka	11	VAL	O-C-N	-5.73	116.44	123.03
1	kd	89	GLY	CA-C-N	5.73	127.01	119.84
1	kd	89	GLY	C-N-CA	5.73	127.01	119.84
1	ks	73	ILE	O-C-N	5.73	127.53	121.91
1	kI	112	GLN	CA-C-O	5.73	126.63	120.55
1	kO	37	ILE	N-CA-CB	-5.73	106.89	110.50
1	kQ	210	THR	CA-CB-CG2	5.73	120.24	110.50
1	kR	226	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	l3	150	ILE	CA-C-O	5.73	126.70	120.57
1	la	101	GLY	O-C-N	5.73	127.69	122.19
1	lb	144	MET	N-CA-C	5.73	117.61	111.36
1	lB	19	THR	CA-C-N	5.73	127.89	120.44
1	lB	19	THR	C-N-CA	5.73	127.89	120.44
1	lO	15	ILE	N-CA-C	5.73	116.81	109.30
1	2c	211	LEU	N-CA-C	5.73	117.53	111.28
1	2d	201	ILE	CA-C-O	5.73	127.25	121.17
1	2g	78	ALA	CA-C-N	5.73	128.43	120.29
1	2g	78	ALA	C-N-CA	5.73	128.43	120.29
1	2g	159	GLU	CA-C-N	5.73	125.68	119.78
1	2g	159	GLU	C-N-CA	5.73	125.68	119.78
1	2o	92	GLU	CA-C-N	5.73	127.00	119.84
1	2o	92	GLU	C-N-CA	5.73	127.00	119.84
1	2q	226	HIS	N-CA-C	5.73	118.30	111.71
1	2r	222	GLY	CA-C-N	5.73	130.87	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2r	222	GLY	C-N-CA	5.73	130.87	121.87
1	2w	10	MET	CG-SD-CE	-5.73	88.29	100.90
1	2C	96	MET	N-CA-C	5.73	117.69	110.24
1	2O	50	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	2P	188	THR	CA-CB-OG1	5.73	118.20	109.60
1	2S	53	ASN	CA-CB-CG	-5.73	106.87	112.60
1	2W	160	PRO	CA-C-N	5.73	132.49	121.54
1	2W	160	PRO	C-N-CA	5.73	132.49	121.54
1	39	170	LYS	CA-C-N	5.73	128.43	120.29
1	39	170	LYS	C-N-CA	5.73	128.43	120.29
1	3j	223	GLY	CA-C-N	5.73	127.00	119.84
1	3j	223	GLY	C-N-CA	5.73	127.00	119.84
1	3t	152	ASP	CA-C-N	5.73	129.65	122.43
1	3t	152	ASP	C-N-CA	5.73	129.65	122.43
1	3u	132	ARG	N-CA-C	5.73	117.20	111.07
1	3z	49	PRO	CB-CA-C	5.73	121.02	111.56
1	3O	161	PHE	O-C-N	-5.73	114.97	122.59
1	42	208	ALA	CA-C-O	5.73	126.60	119.78
1	4t	17	PRO	CA-C-N	5.73	127.96	120.28
1	4t	17	PRO	C-N-CA	5.73	127.96	120.28
1	4C	132	ARG	N-CA-C	5.73	118.47	111.82
1	4F	26	VAL	CA-CB-CG2	-5.73	100.66	110.40
1	4X	46	GLY	CA-C-O	5.73	126.89	119.44
1	4X	76	GLU	O-C-N	-5.73	116.17	122.07
1	56	139	ASN	CA-CB-CG	-5.73	106.87	112.60
1	5a	18	ARG	CB-CA-C	5.73	119.88	110.88
1	5a	164	TYR	CA-C-N	5.73	128.56	120.42
1	5a	164	TYR	C-N-CA	5.73	128.56	120.42
1	5u	107	THR	CB-CA-C	-5.73	101.88	110.88
1	5D	139	ASN	N-CA-CB	-5.73	101.39	110.28
1	5J	80	TRP	CD2-CE2-CZ2	-5.73	116.67	122.40
1	5K	211	LEU	N-CA-C	5.73	118.01	111.02
1	5O	168	PHE	CA-C-O	5.73	126.63	120.55
1	5O	227	LYS	O-C-N	-5.73	115.97	123.02
1	6A	196	PRO	N-CA-CB	5.73	109.27	103.25
1	6L	215	MET	N-CA-C	5.73	117.53	111.28
1	6S	166	ASP	CA-C-N	5.73	127.96	120.28
1	6S	166	ASP	C-N-CA	5.73	127.96	120.28
1	6U	16	SER	CA-C-O	-5.73	113.19	119.61
1	6V	36	VAL	N-CA-CB	5.73	118.33	110.54
1	6X	228	ALA	O-C-N	-5.73	116.04	122.75
1	77	52	LEU	N-CA-CB	5.73	118.32	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	79	39	MET	CA-C-N	5.73	128.28	120.54
1	79	39	MET	C-N-CA	5.73	128.28	120.54
1	7a	2	ILE	O-C-N	-5.73	117.12	123.20
1	7h	50	GLN	N-CA-C	5.73	117.53	111.28
1	7u	185	MET	N-CA-CB	5.73	118.32	110.01
1	7E	89	GLY	CA-C-N	5.73	126.06	119.93
1	7E	89	GLY	C-N-CA	5.73	126.06	119.93
1	7E	133	TRP	CB-CG-CD1	-5.73	118.30	126.90
1	7Y	84	HIS	CA-C-O	-5.73	115.00	119.99
1	8b	28	GLU	CA-C-O	5.73	126.63	120.55
1	8g	50	GLN	N-CA-C	5.73	117.20	111.07
1	8l	178	SER	N-CA-C	5.73	118.76	110.28
1	8q	90	PRO	N-CA-C	5.73	120.22	111.34
1	8B	218	CYS	CA-C-N	5.73	130.91	121.39
1	8B	218	CYS	C-N-CA	5.73	130.91	121.39
1	8O	9	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	9t	224	PRO	CA-C-O	-5.73	115.07	121.32
1	9v	101	GLY	O-C-N	-5.73	116.69	122.19
1	9x	27	VAL	N-CA-C	5.73	115.92	110.53
1	9z	97	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	Y	23	TRP	CA-CB-CG	5.73	124.49	113.60
1	9R	38	PRO	CA-C-O	5.73	127.77	119.34
1	a5	67	GLN	CB-CA-C	5.73	119.88	110.88
1	a8	32	PHE	CA-CB-CG	-5.73	108.07	113.80
1	ag	172	LEU	CA-C-N	5.73	129.02	120.31
1	ag	172	LEU	C-N-CA	5.73	129.02	120.31
1	aN	27	VAL	N-CA-C	5.73	115.92	110.42
1	14	201	ILE	N-CA-C	5.73	115.92	110.42
1	aU	96	MET	CA-C-O	5.73	127.50	121.19
1	aY	36	VAL	CA-CB-CG1	5.73	120.14	110.40
1	b2	117	TRP	N-CA-C	5.73	117.61	111.36
1	bd	230	VAL	CA-C-O	5.73	126.66	120.47
1	be	149	SER	O-C-N	-5.73	116.25	123.01
1	bp	57	ASN	CB-CA-C	-5.73	101.10	110.85
1	bw	150	ILE	CA-C-O	5.73	126.66	120.47
1	by	111	LEU	N-CA-C	5.73	117.53	111.28
1	bC	182	LYS	CA-C-N	5.73	127.89	120.44
1	bC	182	LYS	C-N-CA	5.73	127.89	120.44
1	bL	213	GLU	N-CA-C	5.73	117.20	111.07
1	bS	138	LEU	CA-C-N	5.73	127.96	120.28
1	bS	138	LEU	C-N-CA	5.73	127.96	120.28
1	c1	10	MET	N-CA-C	5.73	118.50	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	128	GLU	CB-CG-CD	5.73	122.34	112.60
1	cb	62	HIS	N-CA-C	5.73	119.15	111.24
1	cj	142	VAL	CB-CA-C	-5.73	104.40	112.14
1	ck	53	ASN	CA-C-N	5.73	127.89	120.44
1	ck	53	ASN	C-N-CA	5.73	127.89	120.44
1	cD	104	ILE	N-CA-C	5.73	116.47	110.62
1	1i	226	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	d7	156	GLY	O-C-N	-5.73	116.04	121.77
1	df	53	ASN	CA-C-N	5.73	128.53	120.28
1	df	53	ASN	C-N-CA	5.73	128.53	120.28
1	dB	70	LYS	CA-C-O	-5.73	113.03	119.79
1	dH	69	LEU	N-CA-C	5.73	117.20	111.07
1	dW	80	TRP	CA-C-N	5.73	127.96	120.28
1	dW	80	TRP	C-N-CA	5.73	127.96	120.28
1	e8	216	THR	CA-C-N	5.73	129.25	120.82
1	e8	216	THR	C-N-CA	5.73	129.25	120.82
1	ee	132	ARG	O-C-N	-5.73	116.04	122.12
1	ej	97	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	er	84	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	eD	48	THR	CA-C-N	5.73	127.01	119.84
1	eD	48	THR	C-N-CA	5.73	127.01	119.84
1	eO	87	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	eQ	89	GLY	CA-C-N	5.73	125.74	119.89
1	eQ	89	GLY	C-N-CA	5.73	125.74	119.89
1	eR	67	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	eS	147	PRO	CA-C-O	-5.73	115.07	121.32
1	f3	47	ALA	N-CA-CB	-5.73	101.74	110.45
1	fg	12	HIS	N-CA-CB	-5.73	101.40	110.06
1	fg	63	GLN	N-CA-C	5.73	117.53	111.28
1	1w	199	LYS	CA-C-O	-5.73	114.47	120.55
1	fk	185	MET	CG-SD-CE	-5.73	88.29	100.90
1	fn	46	GLY	CA-C-N	5.73	129.01	120.87
1	fn	46	GLY	C-N-CA	5.73	129.01	120.87
1	fr	211	LEU	CA-C-N	5.73	127.96	120.28
1	fr	211	LEU	C-N-CA	5.73	127.96	120.28
1	fs	73	ILE	N-CA-C	5.73	116.38	110.36
1	fA	150	ILE	N-CA-C	5.73	118.22	111.05
1	fI	116	GLY	CA-C-N	5.73	127.89	120.44
1	fI	116	GLY	C-N-CA	5.73	127.89	120.44
1	fI	179	GLN	N-CA-C	-5.73	105.03	111.28
1	1z	9	GLN	CA-C-N	5.73	132.49	121.54
1	1z	9	GLN	C-N-CA	5.73	132.49	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	146	SER	CA-C-O	-5.73	114.21	120.17
1	fS	140	LYS	O-C-N	-5.73	116.04	122.12
1	fY	224	PRO	N-CA-CB	5.73	108.79	103.46
1	fZ	26	VAL	CA-C-O	5.73	126.70	120.57
1	g7	3	VAL	CA-C-O	-5.73	114.19	120.72
1	f	162	ARG	O-C-N	-5.73	116.04	122.12
1	i	208	ALA	N-CA-C	-5.73	106.05	113.16
1	p	134	ILE	N-CA-CB	5.73	117.91	110.57
1	r	72	THR	CA-C-N	5.73	127.78	120.56
1	r	72	THR	C-N-CA	5.73	127.78	120.56
1	s	18	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	2	124	ILE	N-CA-C	-5.73	101.88	107.55
1	v	161	PHE	CA-C-N	5.73	127.96	120.28
1	v	161	PHE	C-N-CA	5.73	127.96	120.28
1	E	211	LEU	N-CA-CB	-5.73	101.69	110.12
1	K	31	ALA	N-CA-C	5.73	118.30	111.71
1	gd	169	TYR	CB-CG-CD1	5.73	129.40	120.80
1	ge	166	ASP	CA-C-N	5.73	130.29	120.72
1	ge	166	ASP	C-N-CA	5.73	130.29	120.72
1	gx	91	ILE	N-CA-C	5.73	121.26	109.34
1	gH	159	GLU	O-C-N	5.73	126.62	121.35
1	h3	159	GLU	CA-C-N	5.73	127.00	119.84
1	h3	159	GLU	C-N-CA	5.73	127.00	119.84
1	h6	108	THR	CB-CA-C	-5.73	100.81	110.44
1	hg	224	PRO	CA-C-N	5.73	132.64	121.41
1	hg	224	PRO	C-N-CA	5.73	132.64	121.41
1	hl	212	GLU	N-CA-CB	5.73	118.28	109.91
1	i1	226	HIS	N-CA-C	5.73	118.47	111.82
1	i3	206	GLY	N-CA-C	5.73	124.03	112.34
1	i5	88	ALA	CA-C-O	5.73	125.59	119.34
1	i5	119	THR	CA-C-N	5.73	129.94	120.94
1	i5	119	THR	C-N-CA	5.73	129.94	120.94
1	ia	19	THR	N-CA-CB	5.73	118.64	110.16
1	ic	33	SER	CA-C-N	5.73	127.00	119.84
1	ic	33	SER	C-N-CA	5.73	127.00	119.84
1	ic	48	THR	N-CA-CB	5.73	117.69	109.78
1	ie	2	ILE	CA-C-N	5.73	130.30	123.19
1	ie	2	ILE	C-N-CA	5.73	130.30	123.19
1	ik	51	ASP	CA-C-N	5.73	128.53	120.28
1	ik	51	ASP	C-N-CA	5.73	128.53	120.28
1	iv	212	GLU	CA-C-N	5.73	127.96	120.28
1	iv	212	GLU	C-N-CA	5.73	127.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1R	20	LEU	N-CA-C	5.73	117.99	111.11
1	iI	37	ILE	CA-C-N	5.73	125.10	118.85
1	iI	37	ILE	C-N-CA	5.73	125.10	118.85
1	iL	85	PRO	CA-C-N	5.73	128.40	120.49
1	iL	85	PRO	C-N-CA	5.73	128.40	120.49
1	1S	46	GLY	CA-C-N	5.73	129.01	120.87
1	1S	46	GLY	C-N-CA	5.73	129.01	120.87
1	jc	69	LEU	CA-C-O	-5.73	114.47	120.55
1	je	113	GLU	CA-C-O	5.73	126.49	120.42
1	jo	103	ASP	CA-CB-CG	5.73	118.33	112.60
1	jH	20	LEU	N-CA-C	5.73	117.53	111.28
1	k0	156	GLY	CA-C-N	-5.73	112.68	119.84
1	k0	156	GLY	C-N-CA	-5.73	112.68	119.84
1	km	23	TRP	CA-C-N	5.73	128.31	120.46
1	km	23	TRP	C-N-CA	5.73	128.31	120.46
1	ks	223	GLY	CA-C-N	5.73	125.68	119.78
1	ks	223	GLY	C-N-CA	5.73	125.68	119.78
1	kI	138	LEU	N-CA-CB	5.73	118.48	109.94
1	kO	50	GLN	N-CA-C	5.73	117.53	111.28
1	kU	223	GLY	N-CA-C	5.73	124.03	112.34
1	l2	84	HIS	CA-C-N	5.73	126.05	119.92
1	l2	84	HIS	C-N-CA	5.73	126.05	119.92
1	l2	143	ARG	O-C-N	-5.73	116.17	122.07
1	l3	198	CYS	N-CA-C	5.73	117.53	111.28
1	lb	18	ARG	CB-CG-CD	5.73	124.48	111.30
1	lI	99	PRO	N-CA-C	5.73	119.45	110.80
1	2L	170	LYS	N-CA-C	5.73	117.20	111.07
1	2S	162	ARG	NH1-CZ-NH2	5.73	126.75	119.30
1	2S	173	ARG	CD-NE-CZ	-5.73	116.38	124.40
1	3p	128	GLU	CA-C-N	5.73	127.78	120.56
1	3p	128	GLU	C-N-CA	5.73	127.78	120.56
1	3s	147	PRO	O-C-N	-5.73	115.86	122.85
1	3v	26	VAL	N-CA-C	5.73	115.92	110.42
1	3w	210	THR	O-C-N	-5.73	116.26	122.79
1	3E	66	MET	O-C-N	-5.73	116.05	122.12
1	3U	58	THR	CA-C-N	5.73	128.18	120.50
1	3U	58	THR	C-N-CA	5.73	128.18	120.50
1	40	187	GLU	N-CA-C	5.73	117.53	111.28
1	46	27	VAL	N-CA-C	5.73	120.47	112.50
1	4a	102	SER	CA-C-N	5.73	127.96	120.28
1	4a	102	SER	C-N-CA	5.73	127.96	120.28
1	4e	220	GLY	N-CA-C	5.73	126.76	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4p	173	ARG	CA-C-O	5.73	126.42	119.31
1	4v	20	LEU	N-CA-C	5.73	117.33	111.14
1	4E	191	VAL	O-C-N	-5.73	114.54	122.05
1	54	74	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	57	69	LEU	CA-C-N	5.73	127.89	120.44
1	57	69	LEU	C-N-CA	5.73	127.89	120.44
1	5d	89	GLY	CA-C-N	5.73	127.00	119.84
1	5d	89	GLY	C-N-CA	5.73	127.00	119.84
1	5j	199	LYS	CA-C-N	5.73	127.96	120.28
1	5j	199	LYS	C-N-CA	5.73	127.96	120.28
1	5m	17	PRO	N-CA-C	-5.73	106.06	113.57
1	5s	187	GLU	N-CA-C	5.73	117.53	111.28
1	5Q	174	ALA	CA-C-O	5.73	126.26	119.56
1	5V	20	LEU	N-CA-C	5.73	118.27	111.33
1	5Y	42	ALA	CA-C-O	5.73	127.03	120.90
1	5Z	68	MET	O-C-N	-5.73	115.95	122.08
1	6f	41	SER	N-CA-C	-5.73	105.03	111.28
1	6f	114	GLN	CA-C-N	5.73	128.31	120.46
1	6f	114	GLN	C-N-CA	5.73	128.31	120.46
1	6i	114	GLN	N-CA-C	5.73	117.53	111.28
1	6j	63	GLN	O-C-N	-5.73	115.22	122.27
1	6n	220	GLY	O-C-N	-5.73	115.78	122.60
1	6M	72	THR	CB-CA-C	-5.73	101.28	110.79
1	7i	175	GLU	CB-CG-CD	5.73	122.34	112.60
1	7w	175	GLU	CA-CB-CG	5.73	125.56	114.10
1	7Q	120	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	86	39	MET	CA-C-N	5.73	127.89	120.44
1	86	39	MET	C-N-CA	5.73	127.89	120.44
1	8w	112	GLN	CA-C-N	5.73	127.96	120.28
1	8w	112	GLN	C-N-CA	5.73	127.96	120.28
1	8G	5	ASN	CB-CA-C	-5.73	100.96	109.90
1	8G	78	ALA	CA-C-N	5.73	128.23	120.38
1	8G	78	ALA	C-N-CA	5.73	128.23	120.38
1	8S	173	ARG	NE-CZ-NH1	-5.73	115.77	121.50
1	93	154	ARG	CB-CG-CD	5.73	124.48	111.30
1	9i	210	THR	N-CA-C	-5.73	102.00	110.48
1	9u	17	PRO	O-C-N	-5.73	114.53	122.27
1	9D	144	MET	N-CA-C	5.73	119.08	111.75
1	9K	203	LYS	CA-C-O	5.73	126.84	120.82
1	a2	76	GLU	N-CA-C	5.73	117.53	111.28
1	a9	76	GLU	CA-C-N	5.73	127.96	120.28
1	a9	76	GLU	C-N-CA	5.73	127.96	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a9	121	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	ab	36	VAL	CA-C-N	5.73	123.85	120.24
1	ab	36	VAL	C-N-CA	5.73	123.85	120.24
1	13	195	ASN	CA-C-N	5.73	127.00	119.84
1	13	195	ASN	C-N-CA	5.73	127.00	119.84
1	aI	33	SER	O-C-N	-5.73	115.23	121.53
1	b2	228	ALA	CA-C-O	5.73	127.62	121.55
1	b9	90	PRO	N-CA-C	5.73	120.20	111.15
1	bm	62	HIS	CB-CG-CD2	-5.73	123.75	131.20
1	bs	81	ASP	CA-C-O	5.73	126.60	120.70
1	bu	56	LEU	N-CA-C	5.73	117.53	111.28
1	bF	99	PRO	N-CA-CB	-5.73	98.60	103.36
1	1a	55	MET	CG-SD-CE	-5.73	88.29	100.90
1	bS	146	SER	CA-C-O	-5.73	114.46	120.02
1	cc	3	VAL	N-CA-CB	-5.73	104.24	111.46
1	ci	180	GLU	CA-C-N	5.73	127.86	120.70
1	ci	180	GLU	C-N-CA	5.73	127.86	120.70
1	cm	62	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	cv	178	SER	CA-C-N	5.73	128.43	120.29
1	cv	178	SER	C-N-CA	5.73	128.43	120.29
1	cJ	179	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	cK	173	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	cT	226	HIS	CA-C-N	5.73	128.85	120.71
1	cT	226	HIS	C-N-CA	5.73	128.85	120.71
1	1j	92	GLU	CA-C-N	5.73	127.00	119.84
1	1j	92	GLU	C-N-CA	5.73	127.00	119.84
1	dq	12	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	dA	195	ASN	O-C-N	-5.73	115.01	121.43
1	dB	74	ASN	N-CA-C	5.73	117.99	111.11
1	dI	9	GLN	N-CA-C	5.73	118.67	110.24
1	dM	9	GLN	CA-C-N	5.73	128.98	120.90
1	dM	9	GLN	C-N-CA	5.73	128.98	120.90
1	dY	110	THR	CA-C-O	-5.73	114.41	121.06
1	e0	134	ILE	CA-C-N	5.73	128.56	120.42
1	e0	134	ILE	C-N-CA	5.73	128.56	120.42
1	e2	65	ALA	O-C-N	-5.73	115.90	122.09
1	e8	99	PRO	CA-C-N	5.73	131.83	121.06
1	e8	99	PRO	C-N-CA	5.73	131.83	121.06
1	ed	26	VAL	O-C-N	-5.73	116.31	121.87
1	ed	191	VAL	CB-CA-C	5.73	120.69	111.29
1	en	99	PRO	CB-CA-C	-5.73	103.59	111.21
1	eu	218	CYS	N-CA-C	5.73	119.57	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ev	142	VAL	N-CA-C	-5.73	104.93	110.72
1	ew	155	GLN	O-C-N	-5.73	116.34	123.04
1	eO	96	MET	CA-C-N	5.73	132.23	122.37
1	eO	96	MET	C-N-CA	5.73	132.23	122.37
1	eP	58	THR	OG1-CB-CG2	-5.73	97.84	109.30
1	f9	172	LEU	CA-C-N	5.73	127.96	120.28
1	f9	172	LEU	C-N-CA	5.73	127.96	120.28
1	fb	84	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	fj	138	LEU	CA-C-N	5.73	128.53	120.28
1	fj	138	LEU	C-N-CA	5.73	128.53	120.28
1	fx	174	ALA	CA-C-N	5.73	129.01	120.87
1	fx	174	ALA	C-N-CA	5.73	129.01	120.87
1	fQ	104	ILE	O-C-N	-5.73	116.31	121.87
1	fR	144	MET	N-CA-C	-5.73	106.12	113.23
1	fT	121	ASN	CA-CB-CG	5.73	118.33	112.60
1	g1	132	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	g4	68	MET	O-C-N	5.73	128.19	122.12
1	z	66	MET	O-C-N	-5.73	116.05	122.12
1	O	142	VAL	N-CA-CB	-5.73	102.75	110.54
1	R	42	ALA	CA-C-O	5.73	126.42	119.31
1	gM	199	LYS	N-CA-C	5.73	117.20	111.07
1	gP	62	HIS	CA-C-N	5.73	127.96	120.28
1	gP	62	HIS	C-N-CA	5.73	127.96	120.28
1	hl	23	TRP	CA-C-N	5.73	128.31	120.46
1	hl	23	TRP	C-N-CA	5.73	128.31	120.46
1	1J	223	GLY	CA-C-N	5.73	127.00	119.84
1	1J	223	GLY	C-N-CA	5.73	127.00	119.84
1	iH	92	GLU	CA-C-O	-5.73	112.42	117.98
1	iV	59	VAL	CB-CA-C	5.73	118.60	111.15
1	j8	159	GLU	N-CA-C	5.73	116.88	109.72
1	jb	224	PRO	O-C-N	-5.73	115.98	122.91
1	jz	71	GLU	O-C-N	-5.73	116.05	122.12
1	jU	62	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	1Z	95	GLN	CA-C-O	5.73	128.06	121.47
1	kg	108	THR	N-CA-CB	5.73	120.17	110.49
1	kr	53	ASN	CA-CB-CG	-5.73	106.87	112.60
1	kW	21	ASN	CA-C-N	5.73	127.89	120.44
1	kW	21	ASN	C-N-CA	5.73	127.89	120.44
1	l0	23	TRP	CA-CB-CG	5.73	124.49	113.60
1	ls	117	TRP	N-CA-CB	5.73	119.90	110.39
1	2c	205	LEU	CA-C-N	5.73	130.86	121.87
1	2c	205	LEU	C-N-CA	5.73	130.86	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2v	179	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	2G	12	HIS	CB-CG-ND1	5.73	131.29	122.70
1	2Q	164	TYR	N-CA-CB	5.73	118.38	110.07
1	3G	53	ASN	CA-CB-CG	-5.73	106.87	112.60
1	44	29	GLU	N-CA-C	5.73	117.20	111.07
1	4d	226	HIS	CB-CG-ND1	5.73	131.29	122.70
1	4J	80	TRP	CB-CG-CD1	5.73	135.49	126.90
1	59	224	PRO	N-CA-C	5.73	120.20	111.15
1	5b	178	SER	CA-C-O	5.73	127.49	121.19
1	5d	68	MET	CA-C-N	5.73	128.21	120.65
1	5d	68	MET	C-N-CA	5.73	128.21	120.65
1	5e	75	GLU	O-C-N	-5.73	115.52	122.22
1	5i	84	HIS	CA-C-N	5.73	125.74	119.90
1	5i	84	HIS	C-N-CA	5.73	125.74	119.90
1	5C	91	ILE	CB-CA-C	5.73	119.50	111.08
1	5K	41	SER	N-CA-C	5.73	117.20	111.07
1	5P	100	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	63	100	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	6a	191	VAL	CB-CA-C	-5.73	104.31	112.22
1	6f	5	ASN	N-CA-C	-5.73	98.60	110.80
1	6I	158	LYS	N-CA-CB	5.73	119.85	111.54
1	6X	201	ILE	N-CA-C	5.73	115.92	110.53
1	7h	111	LEU	N-CA-C	5.73	117.98	111.11
1	7A	95	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	84	173	ARG	N-CA-C	5.73	117.52	111.28
1	90	126	VAL	N-CA-C	5.73	117.15	110.62
1	99	87	HIS	CA-C-N	5.73	133.54	122.03
1	99	87	HIS	C-N-CA	5.73	133.54	122.03
1	99	171	THR	CA-C-N	5.73	130.29	120.72
1	99	171	THR	C-N-CA	5.73	130.29	120.72
1	a7	40	PHE	N-CA-C	5.73	117.52	111.28
1	ap	25	LYS	N-CA-C	5.73	117.20	111.07
1	at	206	GLY	O-C-N	-5.73	116.04	121.77
1	12	88	ALA	N-CA-C	5.73	117.72	110.33
1	bU	63	GLN	OE1-CD-NE2	5.73	128.33	122.60
1	1d	194	ALA	N-CA-C	5.73	118.58	110.50
1	cr	215	MET	CA-C-O	5.73	126.36	119.43
1	cQ	217	ALA	N-CA-C	5.73	118.28	110.55
1	cX	165	VAL	N-CA-C	5.73	116.51	110.72
1	d7	66	MET	CB-CA-C	-5.73	101.11	110.85
1	ek	51	ASP	CB-CA-C	-5.73	101.28	110.79
1	fB	4	GLN	CA-CB-CG	5.73	125.56	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fJ	221	VAL	CB-CA-C	-5.73	104.38	111.08
1	fR	188	THR	CA-CB-OG1	5.73	118.19	109.60
1	a	66	MET	N-CA-CB	5.73	118.38	110.07
1	g	193	ASN	N-CA-CB	-5.73	101.48	110.30
1	k	210	THR	CA-C-N	5.73	128.23	120.38
1	k	210	THR	C-N-CA	5.73	128.23	120.38
1	M	82	ARG	NE-CZ-NH2	5.73	124.36	119.20
1	M	119	THR	N-CA-C	-5.73	106.33	113.38
1	1C	189	LEU	O-C-N	5.73	127.97	122.07
1	gx	165	VAL	O-C-N	5.73	127.42	121.87
1	gF	66	MET	CG-SD-CE	-5.73	88.30	100.90
1	gL	192	GLN	CA-C-N	5.73	132.17	122.26
1	gL	192	GLN	C-N-CA	5.73	132.17	122.26
1	gU	64	ALA	CA-C-N	5.73	127.89	120.44
1	gU	64	ALA	C-N-CA	5.73	127.89	120.44
1	1G	187	GLU	CA-C-N	-5.73	111.84	122.09
1	1G	187	GLU	C-N-CA	-5.73	111.84	122.09
1	gX	137	GLY	CA-C-N	5.73	128.42	120.29
1	gX	137	GLY	C-N-CA	5.73	128.42	120.29
1	hb	211	LEU	N-CA-C	-5.73	105.04	111.28
1	hl	200	THR	CA-C-N	5.73	127.78	120.56
1	hl	200	THR	C-N-CA	5.73	127.78	120.56
1	hv	83	LEU	CA-C-N	5.73	131.13	122.42
1	hv	83	LEU	C-N-CA	5.73	131.13	122.42
1	hK	165	VAL	N-CA-C	5.73	116.46	110.62
1	hT	201	ILE	O-C-N	-5.73	116.30	121.91
1	hU	196	PRO	N-CA-C	5.73	121.07	113.57
1	i6	89	GLY	CA-C-N	5.73	127.00	119.84
1	i6	89	GLY	C-N-CA	5.73	127.00	119.84
1	i7	32	PHE	O-C-N	-5.73	115.74	122.96
1	id	180	GLU	CA-C-N	5.73	127.78	120.56
1	id	180	GLU	C-N-CA	5.73	127.78	120.56
1	1O	30	LYS	O-C-N	-5.73	115.62	122.27
1	ij	147	PRO	CA-C-N	5.73	130.53	121.99
1	ij	147	PRO	C-N-CA	5.73	130.53	121.99
1	io	185	MET	N-CA-C	5.73	118.30	111.71
1	1Q	130	TYR	CA-C-N	5.73	127.89	120.44
1	1Q	130	TYR	C-N-CA	5.73	127.89	120.44
1	iC	128	GLU	CA-C-O	-5.73	114.48	120.55
1	iF	23	TRP	CE2-CD2-CE3	-5.73	113.07	118.80
1	j9	177	ALA	N-CA-C	5.73	118.14	110.35
1	jc	100	ARG	O-C-N	-5.73	114.61	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jd	114	GLN	N-CA-C	5.73	117.98	111.11
1	jo	92	GLU	CA-C-O	-5.73	114.57	120.87
1	1W	32	PHE	CA-C-N	5.73	129.36	120.60
1	1W	32	PHE	C-N-CA	5.73	129.36	120.60
1	jw	57	ASN	O-C-N	-5.73	114.56	122.46
1	jB	51	ASP	CA-C-N	5.73	127.95	120.28
1	jB	51	ASP	C-N-CA	5.73	127.95	120.28
1	jB	101	GLY	CA-C-O	-5.73	115.19	120.80
1	jK	112	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	jM	226	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	jT	170	LYS	CA-C-N	5.73	127.95	120.28
1	jT	170	LYS	C-N-CA	5.73	127.95	120.28
1	1Z	104	ILE	CA-C-N	5.73	128.53	120.28
1	1Z	104	ILE	C-N-CA	5.73	128.53	120.28
1	k4	120	HIS	N-CA-C	5.73	117.72	110.33
1	k8	91	ILE	O-C-N	-5.73	115.55	122.59
1	ke	194	ALA	O-C-N	-5.73	116.26	122.79
1	kf	204	ALA	CA-C-N	5.73	128.53	120.28
1	kf	204	ALA	C-N-CA	5.73	128.53	120.28
1	kl	50	GLN	CB-CA-C	-5.73	101.89	110.88
1	kH	180	GLU	N-CA-C	5.73	118.47	111.82
1	kR	126	VAL	O-C-N	-5.73	116.31	121.87
1	kW	202	LEU	CA-C-N	5.73	129.02	120.31
1	kW	202	LEU	C-N-CA	5.73	129.02	120.31
1	kX	142	VAL	N-CA-CB	5.73	117.63	110.47
1	25	160	PRO	CA-C-N	5.73	128.27	120.54
1	25	160	PRO	C-N-CA	5.73	128.27	120.54
1	l2	124	ILE	O-C-N	-5.73	114.57	121.10
1	ll	117	TRP	CB-CG-CD1	-5.73	118.31	126.90
1	ls	160	PRO	CA-C-N	5.73	127.95	120.28
1	ls	160	PRO	C-N-CA	5.73	127.95	120.28
1	lD	230	VAL	O-C-N	-5.73	116.83	122.67
1	lK	161	PHE	CA-C-N	5.73	128.74	120.38
1	lK	161	PHE	C-N-CA	5.73	128.74	120.38
1	lM	71	GLU	N-CA-C	5.73	117.98	111.11
1	lO	84	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	2b	120	HIS	CB-CG-ND1	5.73	131.29	122.70
1	2j	171	THR	O-C-N	-5.73	116.05	122.12
1	2n	185	MET	N-CA-C	5.73	117.52	111.28
1	2v	58	THR	N-CA-C	5.73	117.52	111.28
1	2B	218	CYS	CA-C-O	5.73	128.70	120.51
1	2G	23	TRP	CE2-CD2-CE3	5.73	124.53	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	129	ILE	CA-C-N	5.73	127.89	120.44
1	2O	129	ILE	C-N-CA	5.73	127.89	120.44
1	37	120	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	3B	139	ASN	CB-CA-C	5.73	120.30	110.79
1	3F	155	GLN	CA-C-O	-5.73	114.66	120.84
1	3G	28	GLU	N-CA-C	5.73	117.20	111.07
1	3S	190	LEU	N-CA-C	5.73	123.00	110.80
1	3T	87	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	3T	107	THR	N-CA-CB	5.73	118.38	110.07
1	4h	170	LYS	O-C-N	-5.73	116.05	122.12
1	4q	139	ASN	CA-C-N	5.73	127.89	120.44
1	4q	139	ASN	C-N-CA	5.73	127.89	120.44
1	4J	184	TRP	CB-CG-CD2	5.73	134.82	126.80
1	4K	214	MET	O-C-N	-5.73	115.47	122.34
1	4M	168	PHE	N-CA-CB	-5.73	101.70	110.12
1	4U	120	HIS	CA-CB-CG	5.73	119.53	113.80
1	4V	226	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	5v	148	THR	CA-C-N	5.73	131.24	122.93
1	5v	148	THR	C-N-CA	5.73	131.24	122.93
1	5B	163	ASP	N-CA-C	5.73	117.20	111.07
1	68	124	ILE	N-CA-C	-5.73	102.48	108.15
1	6n	186	THR	N-CA-C	-5.73	106.29	113.28
1	6z	7	GLN	N-CA-CB	5.73	120.17	110.49
1	6E	68	MET	CA-C-O	5.73	126.83	120.82
1	7h	144	MET	O-C-N	-5.73	115.62	122.15
1	7h	205	LEU	N-CA-C	5.73	117.52	111.28
1	7k	69	LEU	CB-CA-C	5.73	119.97	110.81
1	7x	88	ALA	CA-C-O	-5.73	114.35	120.42
1	7G	158	LYS	N-CA-C	-5.73	106.06	113.16
1	81	162	ARG	NE-CZ-NH1	5.73	127.23	121.50
1	86	182	LYS	N-CA-CB	5.73	118.54	110.12
1	8q	162	ARG	N-CA-C	5.73	117.20	111.07
1	8t	5	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	8t	224	PRO	CA-C-N	5.73	130.71	122.63
1	8t	224	PRO	C-N-CA	5.73	130.71	122.63
1	8N	142	VAL	N-CA-C	5.73	116.46	110.62
1	8X	141	ILE	O-C-N	-5.73	116.30	121.91
1	91	120	HIS	CA-CB-CG	5.73	119.53	113.80
1	9i	48	THR	CA-CB-OG1	5.73	118.19	109.60
1	9n	71	GLU	O-C-N	-5.73	115.62	122.15
1	9y	48	THR	CA-CB-OG1	5.73	118.19	109.60
1	9G	65	ALA	N-CA-C	5.73	117.20	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9M	161	PHE	CB-CA-C	5.73	119.97	110.81
1	9Q	97	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	9Y	215	MET	N-CA-C	5.73	118.30	111.71
1	a8	147	PRO	CA-C-O	-5.73	115.08	121.32
1	a9	126	VAL	CA-CB-CG2	5.73	120.14	110.40
1	ag	227	LYS	N-CA-C	5.73	119.74	112.87
1	an	3	VAL	CB-CA-C	-5.73	103.38	111.28
1	an	79	GLU	N-CA-C	5.73	117.52	111.28
1	12	83	LEU	N-CA-C	5.73	117.33	111.14
1	az	11	VAL	O-C-N	-5.73	116.67	123.03
1	15	171	THR	CA-C-N	5.73	128.53	120.28
1	15	171	THR	C-N-CA	5.73	128.53	120.28
1	bd	115	ILE	CA-C-N	5.73	126.46	119.99
1	bd	115	ILE	C-N-CA	5.73	126.46	119.99
1	17	26	VAL	N-CA-C	5.73	116.46	110.62
1	bi	132	ARG	N-CA-CB	5.73	118.54	110.12
1	bm	50	GLN	O-C-N	-5.73	116.05	122.12
1	bo	130	TYR	N-CA-C	5.73	117.52	111.28
1	bA	87	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	bV	114	GLN	O-C-N	-5.73	116.05	122.12
1	bY	62	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	c5	170	LYS	O-C-N	5.73	128.19	122.12
1	cl	228	ALA	O-C-N	-5.73	116.32	122.85
1	cC	25	LYS	O-C-N	-5.73	116.05	122.12
1	d3	92	GLU	N-CA-C	5.73	118.45	110.20
1	d9	62	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	dh	195	ASN	CA-CB-CG	5.73	118.33	112.60
1	ds	51	ASP	CA-C-N	5.73	127.89	120.44
1	ds	51	ASP	C-N-CA	5.73	127.89	120.44
1	dI	77	ALA	CB-CA-C	-5.73	101.11	110.85
1	dK	22	ALA	O-C-N	-5.73	116.17	122.07
1	dM	192	GLN	CB-CA-C	-5.73	100.94	110.68
1	ec	91	ILE	O-C-N	-5.73	115.41	122.57
1	ev	41	SER	O-C-N	-5.73	116.05	122.12
1	eB	56	LEU	CB-CA-C	5.73	118.22	109.34
1	eL	114	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	eT	150	ILE	CA-C-N	5.73	127.96	120.28
1	eT	150	ILE	C-N-CA	5.73	127.96	120.28
1	f1	193	ASN	CA-C-N	5.73	128.84	120.71
1	f1	193	ASN	C-N-CA	5.73	128.84	120.71
1	f7	202	LEU	CA-C-N	5.73	127.89	120.44
1	f7	202	LEU	C-N-CA	5.73	127.89	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f8	173	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	fc	159	GLU	CA-C-N	5.73	125.68	119.78
1	fc	159	GLU	C-N-CA	5.73	125.68	119.78
1	fg	118	MET	N-CA-C	5.73	118.30	111.71
1	fi	84	HIS	CB-CG-ND1	5.73	131.29	122.70
1	1w	183	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	fn	42	ALA	CA-C-N	5.73	127.95	120.28
1	fn	42	ALA	C-N-CA	5.73	127.95	120.28
1	fo	169	TYR	N-CA-C	5.73	118.47	111.82
1	fx	138	LEU	N-CA-C	5.73	118.30	111.71
1	fE	195	ASN	CA-C-O	-5.73	113.02	121.27
1	fF	132	ARG	NE-CZ-NH2	-5.73	114.05	119.20
1	fG	62	HIS	ND1-CE1-NE2	5.73	114.13	108.40
1	fG	202	LEU	CA-C-N	5.73	128.42	120.29
1	fG	202	LEU	C-N-CA	5.73	128.42	120.29
1	fI	228	ALA	N-CA-C	5.73	118.01	109.59
1	fN	52	LEU	CA-C-N	5.73	127.95	120.28
1	fN	52	LEU	C-N-CA	5.73	127.95	120.28
1	fN	155	GLN	CA-C-N	5.73	128.69	121.36
1	fN	155	GLN	C-N-CA	5.73	128.69	121.36
1	fO	204	ALA	CA-C-O	-5.73	113.63	120.10
1	fP	82	ARG	CD-NE-CZ	-5.73	116.38	124.40
1	n	120	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	D	65	ALA	CA-C-O	-5.73	114.77	120.90
1	E	24	VAL	CB-CA-C	-5.73	104.64	111.97
1	9	68	MET	O-C-N	-5.73	116.17	122.07
1	gb	168	PHE	O-C-N	-5.73	116.05	122.12
1	gf	16	SER	CA-C-N	5.73	125.34	119.56
1	gf	16	SER	C-N-CA	5.73	125.34	119.56
1	1F	173	ARG	N-CA-C	5.73	120.82	111.37
1	gN	74	ASN	N-CA-C	5.73	117.52	111.28
1	h9	135	ILE	N-CA-C	5.73	116.50	110.72
1	hw	2	ILE	N-CA-CB	-5.73	103.51	111.41
1	hF	5	ASN	CA-C-O	-5.73	114.44	120.80
1	hF	100	ARG	NE-CZ-NH2	-5.73	114.05	119.20
1	ic	180	GLU	CA-C-O	5.73	126.62	120.55
1	iJ	155	GLN	N-CA-CB	-5.73	101.62	110.04
1	ji	185	MET	CA-C-O	5.73	126.83	120.82
1	js	102	SER	CA-C-N	5.73	127.95	120.28
1	js	102	SER	C-N-CA	5.73	127.95	120.28
1	jt	94	GLY	CA-C-N	5.73	132.10	121.62
1	jt	94	GLY	C-N-CA	5.73	132.10	121.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Y	3	VAL	CA-C-N	5.73	128.84	120.71
1	1Y	3	VAL	C-N-CA	5.73	128.84	120.71
1	jS	186	THR	O-C-N	-5.73	116.17	122.07
1	jU	207	PRO	CA-C-O	-5.73	115.08	121.32
1	jV	191	VAL	O-C-N	-5.73	116.30	121.91
1	jY	42	ALA	N-CA-C	5.73	117.52	111.28
1	jZ	82	ARG	CD-NE-CZ	5.73	132.42	124.40
1	k7	113	GLU	CA-C-N	5.73	127.88	120.44
1	k7	113	GLU	C-N-CA	5.73	127.88	120.44
1	kd	88	ALA	CA-C-N	5.73	130.86	121.87
1	kd	88	ALA	C-N-CA	5.73	130.86	121.87
1	kJ	104	ILE	N-CA-C	5.73	120.42	112.35
1	kM	88	ALA	O-C-N	-5.73	115.98	122.97
1	l2	221	VAL	N-CA-CB	5.73	120.68	111.23
1	l3	57	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	ln	121	ASN	OD1-CG-ND2	-5.73	116.87	122.60
1	lG	1	PRO	CA-N-CD	-5.73	103.98	112.00
1	lH	221	VAL	N-CA-C	5.73	118.83	109.78
1	2w	76	GLU	N-CA-C	5.73	117.60	111.36
1	2G	120	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	2M	16	SER	N-CA-C	5.73	117.10	109.83
1	2N	137	GLY	CA-C-N	5.73	127.95	120.28
1	2N	137	GLY	C-N-CA	5.73	127.95	120.28
1	2O	136	LEU	N-CA-C	5.73	117.20	111.07
1	37	206	GLY	O-C-N	-5.73	116.04	121.77
1	3b	98	GLU	CA-C-O	-5.73	114.66	119.76
1	3u	68	MET	O-C-N	-5.73	116.05	122.12
1	3P	52	LEU	O-C-N	5.73	128.19	122.12
1	3U	206	GLY	O-C-N	5.73	127.50	121.77
1	4j	103	ASP	CA-C-O	5.73	126.83	120.82
1	4r	41	SER	N-CA-CB	5.73	118.47	109.94
1	4z	223	GLY	CA-C-N	5.73	127.00	119.84
1	4z	223	GLY	C-N-CA	5.73	127.00	119.84
1	4J	5	ASN	CB-CA-C	5.73	121.04	110.56
1	4Y	159	GLU	CA-C-N	5.73	127.00	119.84
1	4Y	159	GLU	C-N-CA	5.73	127.00	119.84
1	5g	39	MET	N-CA-C	5.73	117.98	111.11
1	5q	195	ASN	CB-CG-OD1	5.73	132.25	120.80
1	5w	84	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
1	5G	99	PRO	CA-C-O	5.73	127.56	121.32
1	5O	5	ASN	CA-CB-CG	5.73	118.33	112.60
1	68	193	ASN	CA-C-O	-5.73	112.35	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Q	4	GLN	N-CA-C	5.73	117.81	108.76
1	79	174	ALA	CA-C-N	5.73	128.97	120.90
1	79	174	ALA	C-N-CA	5.73	128.97	120.90
1	7w	143	ARG	NE-CZ-NH2	-5.73	114.05	119.20
1	7N	54	THR	CA-C-N	5.73	127.88	120.44
1	7N	54	THR	C-N-CA	5.73	127.88	120.44
1	87	195	ASN	CB-CG-ND2	-5.73	107.81	116.40
1	8j	87	HIS	CG-CD2-NE2	5.73	112.93	107.20
1	8n	81	ASP	N-CA-C	5.73	119.53	112.54
1	8N	146	SER	O-C-N	5.73	126.82	121.27
1	9k	85	PRO	N-CA-CB	5.73	108.41	103.31
1	9I	199	LYS	CG-CD-CE	5.73	124.47	111.30
1	ab	24	VAL	N-CA-CB	5.73	117.90	110.57
1	ao	87	HIS	O-C-N	-5.73	116.34	123.04
1	aP	6	LEU	N-CA-C	5.73	118.31	110.24
1	bd	154	ARG	N-CA-C	5.73	123.00	110.80
1	bw	86	VAL	N-CA-CB	5.73	119.75	110.13
1	bY	190	LEU	N-CA-CB	-5.73	101.70	110.12
1	c2	115	ILE	CA-CB-CG2	5.73	120.23	110.50
1	cc	204	ALA	N-CA-C	-5.73	106.06	113.16
1	cd	124	ILE	N-CA-C	-5.73	101.36	107.77
1	cr	225	GLY	CA-C-N	5.73	130.30	122.34
1	cr	225	GLY	C-N-CA	5.73	130.30	122.34
1	cQ	219	GLN	OE1-CD-NE2	-5.73	116.87	122.60
1	du	3	VAL	CA-C-N	5.73	129.00	120.87
1	du	3	VAL	C-N-CA	5.73	129.00	120.87
1	1m	167	ARG	O-C-N	-5.73	114.66	122.33
1	1n	197	ASP	O-C-N	5.73	128.19	122.12
1	e0	109	SER	N-CA-C	5.73	118.55	109.50
1	eJ	190	LEU	N-CA-CB	5.73	119.06	110.53
1	fD	148	THR	O-C-N	5.73	129.91	122.87
1	fO	22	ALA	O-C-N	-5.73	116.17	122.07
1	r	81	ASP	N-CA-C	5.73	117.52	111.28
1	1C	178	SER	CA-CB-OG	5.72	122.55	111.10
1	gr	27	VAL	N-CA-C	5.72	116.37	110.36
1	gz	113	GLU	CA-C-N	5.72	127.88	120.44
1	gz	113	GLU	C-N-CA	5.72	127.88	120.44
1	gC	27	VAL	N-CA-C	5.72	116.46	110.62
1	gJ	183	ASN	N-CA-CB	5.72	118.54	110.12
1	gM	161	PHE	N-CA-CB	5.72	120.17	110.49
1	gQ	51	ASP	CA-C-N	5.72	128.42	120.29
1	gQ	51	ASP	C-N-CA	5.72	128.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gX	81	ASP	CA-C-N	5.72	128.42	120.29
1	gX	81	ASP	C-N-CA	5.72	128.42	120.29
1	h2	206	GLY	CA-C-N	5.72	127.00	119.84
1	h2	206	GLY	C-N-CA	5.72	127.00	119.84
1	hb	216	THR	N-CA-C	-5.72	105.96	113.17
1	hf	148	THR	CB-CA-C	-5.72	101.67	110.26
1	hi	185	MET	CG-SD-CE	-5.72	88.30	100.90
1	hT	160	PRO	CA-C-N	5.72	128.22	120.38
1	hT	160	PRO	C-N-CA	5.72	128.22	120.38
1	i0	120	HIS	N-CA-C	5.72	118.14	110.35
1	i2	7	GLN	N-CA-CB	5.72	118.51	110.90
1	id	133	TRP	CE2-CD2-CE3	-5.72	113.08	118.80
1	ig	124	ILE	N-CA-CB	5.72	117.55	111.20
1	ii	198	CYS	N-CA-CB	-5.72	101.41	109.94
1	in	212	GLU	N-CA-C	5.72	117.98	111.11
1	iF	128	GLU	CB-CG-CD	5.72	122.33	112.60
1	1S	86	VAL	CA-CB-CG2	-5.72	100.67	110.40
1	1S	195	ASN	CA-CB-CG	5.72	118.33	112.60
1	iZ	15	ILE	O-C-N	-5.72	116.43	122.67
1	jc	191	VAL	O-C-N	-5.72	116.47	122.25
1	jl	134	ILE	N-CA-C	5.72	116.37	110.36
1	jp	71	GLU	CA-C-N	5.72	127.95	120.28
1	jp	71	GLU	C-N-CA	5.72	127.95	120.28
1	jw	222	GLY	CA-C-N	5.72	130.86	121.87
1	jw	222	GLY	C-N-CA	5.72	130.86	121.87
1	jy	45	GLU	N-CA-C	5.72	117.19	111.07
1	jy	62	HIS	ND1-CG-CD2	5.72	111.83	106.10
1	1X	167	ARG	CB-CA-C	-5.72	101.89	110.88
1	jH	139	ASN	CA-CB-CG	5.72	118.32	112.60
1	jN	162	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	jZ	193	ASN	N-CA-C	5.72	119.96	113.15
1	kb	226	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	kL	56	LEU	N-CA-C	5.72	117.60	111.36
1	kQ	76	GLU	CA-C-N	5.72	128.22	120.38
1	kQ	76	GLU	C-N-CA	5.72	128.22	120.38
1	kQ	219	GLN	O-C-N	5.72	129.80	122.93
1	l7	35	GLU	N-CA-C	5.72	119.36	112.38
1	lc	190	LEU	CB-CA-C	-5.72	101.89	110.88
1	lg	167	ARG	N-CA-C	-5.72	105.12	111.36
1	lh	226	HIS	N-CA-C	-5.72	105.61	112.59
1	27	120	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	li	230	VAL	CB-CA-C	5.72	119.30	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lD	167	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	lL	62	HIS	N-CA-C	5.72	119.53	111.52
1	lQ	116	GLY	CA-C-N	5.72	130.37	120.58
1	lQ	116	GLY	C-N-CA	5.72	130.37	120.58
1	2l	63	GLN	N-CA-C	5.72	117.52	111.28
1	2o	182	LYS	CA-C-N	5.72	127.95	120.28
1	2o	182	LYS	C-N-CA	5.72	127.95	120.28
1	2y	189	LEU	N-CA-C	5.72	117.98	111.11
1	2N	189	LEU	N-CA-C	5.72	117.52	111.28
1	3e	33	SER	CA-C-N	5.72	125.43	119.82
1	3e	33	SER	C-N-CA	5.72	125.43	119.82
1	3n	32	PHE	CA-CB-CG	-5.72	108.08	113.80
1	3H	163	ASP	CA-C-N	5.72	127.88	120.44
1	3H	163	ASP	C-N-CA	5.72	127.88	120.44
1	3J	189	LEU	CA-C-O	-5.72	114.35	120.42
1	3M	160	PRO	CA-C-O	-5.72	115.02	121.43
1	3S	226	HIS	CA-C-O	-5.72	112.21	119.31
1	4f	217	ALA	N-CA-CB	5.72	118.45	110.26
1	4o	132	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	4p	133	TRP	CB-CG-CD1	5.72	135.49	126.90
1	4r	156	GLY	O-C-N	-5.72	116.05	121.77
1	4t	186	THR	CA-CB-CG2	5.72	120.23	110.50
1	4R	104	ILE	CA-C-O	-5.72	114.78	120.85
1	4V	62	HIS	CA-CB-CG	-5.72	108.08	113.80
1	4Z	120	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	55	92	GLU	CA-C-O	-5.72	113.85	119.69
1	5a	12	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	5h	75	GLU	N-CA-C	5.72	117.19	111.07
1	5w	120	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	5y	173	ARG	CA-CB-CG	5.72	125.55	114.10
1	5z	20	LEU	N-CA-C	5.72	117.20	111.07
1	5H	196	PRO	N-CA-C	5.72	123.05	113.78
1	5P	53	ASN	O-C-N	-5.72	116.05	122.12
1	5P	130	TYR	CA-C-O	5.72	126.49	120.42
1	5S	146	SER	N-CA-C	5.72	121.29	113.16
1	5Y	48	THR	CA-C-O	-5.72	115.45	120.60
1	60	87	HIS	O-C-N	-5.72	116.52	123.10
1	6c	229	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	6t	205	LEU	N-CA-C	5.72	117.19	111.07
1	6G	130	TYR	CA-C-N	5.72	127.88	120.44
1	6G	130	TYR	C-N-CA	5.72	127.88	120.44
1	6K	76	GLU	CA-C-N	5.72	128.42	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6K	76	GLU	C-N-CA	5.72	128.42	120.29
1	78	136	LEU	N-CA-C	5.72	117.52	111.28
1	7c	75	GLU	CA-C-O	5.72	126.49	120.42
1	7m	131	LYS	CA-C-N	5.72	128.27	120.54
1	7m	131	LYS	C-N-CA	5.72	128.27	120.54
1	7D	74	ASN	N-CA-C	5.72	117.98	111.11
1	7K	107	THR	N-CA-CB	5.72	118.63	110.16
1	7R	41	SER	N-CA-CB	5.72	118.31	110.01
1	81	50	GLN	CA-C-N	5.72	127.95	120.28
1	81	50	GLN	C-N-CA	5.72	127.95	120.28
1	8x	74	ASN	CB-CA-C	5.72	120.29	110.79
1	8A	50	GLN	O-C-N	5.72	128.68	122.15
1	8X	30	LYS	N-CA-C	5.72	119.46	111.56
1	91	228	ALA	CB-CA-C	-5.72	101.46	110.79
1	9c	21	ASN	N-CA-CB	5.72	118.31	110.01
1	9e	87	HIS	O-C-N	-5.72	116.11	122.86
1	9h	139	ASN	N-CA-C	-5.72	104.96	111.14
1	9h	167	ARG	NE-CZ-NH2	5.72	124.35	119.20
1	9y	178	SER	N-CA-CB	5.72	118.46	110.04
1	a2	75	GLU	O-C-N	5.72	127.97	122.07
1	ab	226	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	ac	74	ASN	N-CA-C	5.72	117.20	111.07
1	aq	154	ARG	NE-CZ-NH2	5.72	124.35	119.20
1	ar	172	LEU	N-CA-CB	5.72	118.53	110.12
1	au	16	SER	N-CA-CB	5.72	116.96	110.03
1	aB	173	ARG	N-CA-CB	-5.72	101.07	110.40
1	aE	112	GLN	CA-C-N	5.72	127.88	120.44
1	aE	112	GLN	C-N-CA	5.72	127.88	120.44
1	aF	33	SER	CA-C-N	5.72	125.58	119.28
1	aF	33	SER	C-N-CA	5.72	125.58	119.28
1	aK	50	GLN	CA-C-O	5.72	126.57	120.10
1	aK	102	SER	N-CA-C	5.72	118.29	111.71
1	aM	62	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	b2	92	GLU	CA-C-N	5.72	125.74	119.90
1	b2	92	GLU	C-N-CA	5.72	125.74	119.90
1	b6	74	ASN	N-CA-C	5.72	117.52	111.28
1	17	158	LYS	N-CA-C	-5.72	105.63	113.30
1	18	1	PRO	CB-CA-C	5.72	120.98	110.10
1	18	26	VAL	N-CA-C	5.72	117.14	110.62
1	bI	34	PRO	N-CA-C	5.72	122.11	113.81
1	bR	82	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	cf	111	LEU	O-C-N	-5.72	116.17	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	53	ASN	CA-CB-CG	-5.72	106.88	112.60
1	cl	85	PRO	CA-C-N	5.72	129.56	121.66
1	cl	85	PRO	C-N-CA	5.72	129.56	121.66
1	co	13	GLN	O-C-N	-5.72	116.24	123.17
1	1g	203	LYS	CA-C-O	5.72	126.62	120.55
1	cY	228	ALA	CA-C-O	5.72	126.62	120.55
1	dg	2	ILE	CA-C-N	5.72	129.13	120.77
1	dg	2	ILE	C-N-CA	5.72	129.13	120.77
1	dl	150	ILE	CA-C-O	5.72	127.00	121.05
1	dm	3	VAL	N-CA-CB	5.72	116.77	110.53
1	dp	183	ASN	CA-C-N	5.72	127.95	120.28
1	dp	183	ASN	C-N-CA	5.72	127.95	120.28
1	dr	118	MET	CA-C-O	-5.72	114.81	120.82
1	1l	161	PHE	CB-CA-C	5.72	121.81	110.42
1	dy	133	TRP	O-C-N	-5.72	116.05	122.12
1	dF	56	LEU	CA-C-N	5.72	129.01	120.31
1	dF	56	LEU	C-N-CA	5.72	129.01	120.31
1	dQ	18	ARG	N-CA-C	5.72	117.52	111.28
1	dX	196	PRO	O-C-N	-5.72	114.91	122.64
1	e3	201	ILE	CA-C-N	5.72	127.95	120.28
1	e3	201	ILE	C-N-CA	5.72	127.95	120.28
1	e4	62	HIS	N-CA-C	5.72	119.59	111.92
1	en	129	ILE	O-C-N	5.72	127.42	121.87
1	ew	148	THR	CA-C-N	5.72	128.84	120.71
1	ew	148	THR	C-N-CA	5.72	128.84	120.71
1	eD	148	THR	N-CA-C	-5.72	100.03	108.79
1	eG	63	GLN	N-CA-C	5.72	118.46	111.82
1	eW	207	PRO	CA-C-O	-5.72	110.85	119.55
1	f5	139	ASN	OD1-CG-ND2	-5.72	116.88	122.60
1	fb	129	ILE	N-CA-CB	-5.72	104.16	110.51
1	fL	55	MET	N-CA-C	5.72	117.52	111.28
1	0	122	PRO	CA-C-O	-5.72	106.46	120.20
1	b	6	LEU	CA-C-O	5.72	126.83	120.82
1	f	221	VAL	N-CA-CB	5.72	116.77	110.53
1	p	12	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	s	55	MET	N-CA-C	5.72	117.32	111.14
1	D	47	ALA	O-C-N	-5.72	116.19	123.06
1	E	138	LEU	N-CA-C	5.72	117.98	111.11
1	G	154	ARG	NE-CZ-NH1	-5.72	115.78	121.50
1	O	200	THR	O-C-N	-5.72	116.17	122.07
1	gg	165	VAL	CA-C-O	5.72	127.23	121.17
1	gi	32	PHE	CB-CG-CD1	-5.72	110.97	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gs	168	PHE	CA-CB-CG	-5.72	108.08	113.80
1	gt	201	ILE	N-CA-C	5.72	116.50	110.72
1	1G	45	GLU	CB-CG-CD	5.72	122.33	112.60
1	gX	65	ALA	CA-C-N	5.72	128.41	120.29
1	gX	65	ALA	C-N-CA	5.72	128.41	120.29
1	1I	203	LYS	CA-C-O	5.72	126.55	119.97
1	hn	182	LYS	N-CA-CB	-5.72	101.71	110.12
1	hx	70	LYS	O-C-N	-5.72	116.05	122.12
1	hD	229	ARG	N-CA-C	-5.72	100.43	108.96
1	hV	164	TYR	CA-C-N	5.72	128.30	120.46
1	hV	164	TYR	C-N-CA	5.72	128.30	120.46
1	hY	70	LYS	CA-C-O	-5.72	114.36	120.42
1	i3	138	LEU	CA-C-N	5.72	127.95	120.28
1	i3	138	LEU	C-N-CA	5.72	127.95	120.28
1	i4	167	ARG	CA-C-N	5.72	127.88	120.44
1	i4	167	ARG	C-N-CA	5.72	127.88	120.44
1	i9	70	LYS	N-CA-C	5.72	117.98	111.11
1	ia	154	ARG	O-C-N	-5.72	116.63	123.27
1	id	7	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	in	15	ILE	CB-CA-C	5.72	120.92	111.59
1	1R	67	GLN	N-CA-C	5.72	117.52	111.28
1	1R	203	LYS	CA-C-N	5.72	127.95	120.28
1	1R	203	LYS	C-N-CA	5.72	127.95	120.28
1	iI	211	LEU	CA-C-N	5.72	127.95	120.28
1	iI	211	LEU	C-N-CA	5.72	127.95	120.28
1	iQ	134	ILE	N-CA-C	5.72	116.37	110.36
1	iX	130	TYR	CA-C-N	5.72	127.95	120.28
1	iX	130	TYR	C-N-CA	5.72	127.95	120.28
1	j0	198	CYS	N-CA-C	-5.72	105.96	113.17
1	je	124	ILE	O-C-N	-5.72	114.58	121.10
1	jS	77	ALA	N-CA-C	5.72	117.19	111.07
1	jS	101	GLY	CA-C-N	5.72	131.15	121.14
1	jS	101	GLY	C-N-CA	5.72	131.15	121.14
1	k4	53	ASN	OD1-CG-ND2	-5.72	116.88	122.60
1	22	32	PHE	CB-CG-CD1	5.72	130.43	120.70
1	ky	84	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	kD	51	ASP	CA-CB-CG	-5.72	106.88	112.60
1	kD	209	ALA	O-C-N	-5.72	115.77	122.81
1	kF	223	GLY	CA-C-N	5.72	125.73	119.89
1	kF	223	GLY	C-N-CA	5.72	125.73	119.89
1	kH	139	ASN	OD1-CG-ND2	5.72	128.32	122.60
1	kW	7	GLN	CA-C-N	5.72	131.92	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kW	7	GLN	C-N-CA	5.72	131.92	121.85
1	kW	20	LEU	N-CA-C	5.72	117.52	111.28
1	26	152	ASP	CA-C-N	5.72	130.43	122.93
1	26	152	ASP	C-N-CA	5.72	130.43	122.93
1	lj	84	HIS	N-CA-C	5.72	120.03	109.10
1	lm	100	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	lF	69	LEU	CA-C-N	5.72	128.42	120.29
1	lF	69	LEU	C-N-CA	5.72	128.42	120.29
1	lK	149	SER	CB-CA-C	-5.72	101.26	109.84
1	2a	143	ARG	CA-C-N	5.72	127.88	120.44
1	2a	143	ARG	C-N-CA	5.72	127.88	120.44
1	lN	82	ARG	CA-C-N	5.72	129.01	120.31
1	lN	82	ARG	C-N-CA	5.72	129.01	120.31
1	2i	93	PRO	N-CA-C	5.72	120.22	110.95
1	2s	169	TYR	CA-C-N	5.72	127.95	120.28
1	2s	169	TYR	C-N-CA	5.72	127.95	120.28
1	2B	131	LYS	O-C-N	-5.72	115.62	122.15
1	2K	5	ASN	OD1-CG-ND2	5.72	128.32	122.60
1	30	34	PRO	N-CA-CB	5.72	109.26	103.25
1	33	191	VAL	CA-C-N	5.72	127.88	120.44
1	33	191	VAL	C-N-CA	5.72	127.88	120.44
1	38	112	GLN	N-CA-C	5.72	118.29	111.71
1	3C	192	GLN	N-CA-C	5.72	118.46	111.82
1	3J	140	LYS	CA-C-N	5.72	128.60	120.53
1	3J	140	LYS	C-N-CA	5.72	128.60	120.53
1	3K	180	GLU	CA-C-N	5.72	128.30	120.46
1	3K	180	GLU	C-N-CA	5.72	128.30	120.46
1	3M	159	GLU	CB-CG-CD	-5.72	102.87	112.60
1	3Z	147	PRO	N-CA-CB	-5.72	98.98	102.81
1	43	197	ASP	CA-CB-CG	-5.72	106.88	112.60
1	47	196	PRO	N-CA-CB	5.72	109.26	103.25
1	4o	89	GLY	CA-C-N	5.72	125.74	119.90
1	4o	89	GLY	C-N-CA	5.72	125.74	119.90
1	4x	187	GLU	N-CA-CB	-5.72	101.71	110.12
1	5x	14	ALA	N-CA-C	5.72	118.53	110.23
1	5C	230	VAL	CA-C-N	5.72	132.00	121.70
1	5C	230	VAL	C-N-CA	5.72	132.00	121.70
1	5F	169	TYR	O-C-N	-5.72	114.66	122.33
1	5G	206	GLY	CA-C-N	5.72	126.99	119.84
1	5G	206	GLY	C-N-CA	5.72	126.99	119.84
1	5J	226	HIS	CA-CB-CG	5.72	119.52	113.80
1	5M	208	ALA	N-CA-CB	-5.72	102.24	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5R	192	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	63	20	LEU	O-C-N	-5.72	116.17	122.07
1	6b	161	PHE	CA-C-N	5.72	130.29	121.19
1	6b	161	PHE	C-N-CA	5.72	130.29	121.19
1	6i	31	ALA	O-C-N	-5.72	114.98	122.59
1	6i	117	TRP	CB-CG-CD1	-5.72	118.32	126.90
1	6w	226	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	6A	199	LYS	CA-C-O	5.72	126.57	120.10
1	6J	170	LYS	O-C-N	-5.72	116.05	122.12
1	77	211	LEU	N-CA-C	5.72	118.29	111.71
1	8a	76	GLU	CA-C-N	5.72	127.95	120.28
1	8a	76	GLU	C-N-CA	5.72	127.95	120.28
1	8f	27	VAL	CB-CA-C	5.72	119.29	111.97
1	8z	54	THR	O-C-N	-5.72	116.05	122.12
1	8B	159	GLU	N-CA-C	5.72	116.87	109.72
1	8T	100	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	90	101	GLY	CA-C-N	5.72	128.42	120.29
1	90	101	GLY	C-N-CA	5.72	128.42	120.29
1	9j	15	ILE	O-C-N	-5.72	116.45	122.57
1	9l	190	LEU	O-C-N	-5.72	116.06	122.12
1	9p	169	TYR	N-CA-CB	5.72	118.53	110.12
1	9y	148	THR	N-CA-C	-5.72	99.61	108.42
1	9B	148	THR	CA-C-N	5.72	129.39	120.75
1	9B	148	THR	C-N-CA	5.72	129.39	120.75
1	9B	203	LYS	O-C-N	-5.72	116.05	122.12
1	9E	43	LEU	CA-C-O	5.72	126.61	120.55
1	9H	62	HIS	CA-C-N	5.72	127.95	120.28
1	9H	62	HIS	C-N-CA	5.72	127.95	120.28
1	9N	135	ILE	CB-CA-C	5.72	119.52	112.02
1	9O	48	THR	O-C-N	5.72	127.94	121.53
1	9P	67	GLN	CA-C-N	5.72	127.95	120.28
1	9P	67	GLN	C-N-CA	5.72	127.95	120.28
1	a4	141	ILE	N-CA-CB	5.72	118.32	110.54
1	a4	196	PRO	CA-C-N	5.72	129.01	120.31
1	a4	196	PRO	C-N-CA	5.72	129.01	120.31
1	ac	221	VAL	CA-CB-CG2	-5.72	100.67	110.40
1	ag	29	GLU	N-CA-C	5.72	118.38	111.40
1	an	171	THR	O-C-N	-5.72	115.63	122.15
1	at	223	GLY	N-CA-C	5.72	124.01	112.34
1	aG	202	LEU	N-CA-C	5.72	118.46	111.82
1	aL	16	SER	N-CA-C	5.72	118.21	110.31
1	aO	148	THR	CA-CB-OG1	5.72	118.18	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aQ	87	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	16	18	ARG	NE-CZ-NH2	5.72	124.35	119.20
1	bi	108	THR	O-C-N	-5.72	114.89	121.99
1	bz	154	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	1a	107	THR	N-CA-CB	5.72	118.92	110.33
1	1a	168	PHE	CA-C-O	-5.72	114.81	120.82
1	bY	90	PRO	N-CA-C	5.72	120.22	110.95
1	c4	18	ARG	CA-C-N	5.72	127.88	120.44
1	c4	18	ARG	C-N-CA	5.72	127.88	120.44
1	c5	32	PHE	N-CA-C	-5.72	105.61	112.59
1	c9	72	THR	CA-C-N	5.72	128.30	120.46
1	c9	72	THR	C-N-CA	5.72	128.30	120.46
1	cc	81	ASP	O-C-N	-5.72	114.66	122.33
1	ck	45	GLU	CA-C-N	5.72	132.62	121.41
1	ck	45	GLU	C-N-CA	5.72	132.62	121.41
1	cs	44	SER	CA-C-N	5.72	132.47	121.54
1	cs	44	SER	C-N-CA	5.72	132.47	121.54
1	cz	17	PRO	N-CA-C	-5.72	106.07	113.57
1	cD	201	ILE	CA-C-O	5.72	125.93	119.92
1	cT	51	ASP	CA-CB-CG	5.72	118.32	112.60
1	db	195	ASN	CA-C-O	-5.72	114.22	120.69
1	dc	195	ASN	CA-C-N	5.72	125.26	119.19
1	dc	195	ASN	C-N-CA	5.72	125.26	119.19
1	di	132	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	dt	48	THR	CA-CB-OG1	5.72	118.18	109.60
1	dt	167	ARG	CA-C-N	5.72	127.88	120.44
1	dt	167	ARG	C-N-CA	5.72	127.88	120.44
1	dv	26	VAL	N-CA-C	5.72	115.91	110.42
1	dw	56	LEU	CA-C-N	5.72	127.95	120.28
1	dw	56	LEU	C-N-CA	5.72	127.95	120.28
1	dA	226	HIS	N-CA-C	5.72	117.91	110.53
1	dD	62	HIS	N-CA-C	5.72	119.24	111.17
1	dF	211	LEU	N-CA-C	5.72	117.60	111.36
1	dP	50	GLN	N-CA-CB	-5.72	101.07	110.40
1	e2	87	HIS	CA-CB-CG	-5.72	108.08	113.80
1	ef	98	GLU	O-C-N	-5.72	115.41	121.30
1	fb	138	LEU	CA-C-O	5.72	126.83	120.82
1	fe	148	THR	N-CA-CB	5.72	118.38	109.85
1	fg	81	ASP	CA-C-N	5.72	127.88	120.44
1	fg	81	ASP	C-N-CA	5.72	127.88	120.44
1	fm	211	LEU	O-C-N	-5.72	116.06	122.12
1	fz	22	ALA	CA-C-N	5.72	128.75	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fz	22	ALA	C-N-CA	5.72	128.75	120.79
1	fz	57	ASN	OD1-CG-ND2	-5.72	116.88	122.60
1	a	45	GLU	N-CA-C	5.72	118.65	110.24
1	p	58	THR	N-CA-CB	5.72	118.53	110.12
1	H	78	ALA	N-CA-C	5.72	117.52	111.28
1	Q	227	LYS	N-CA-CB	5.72	118.31	110.01
1	R	195	ASN	CA-C-O	-5.72	114.26	121.01
1	g8	204	ALA	CA-C-N	5.72	130.27	120.72
1	g8	204	ALA	C-N-CA	5.72	130.27	120.72
1	gh	9	GLN	N-CA-CB	5.72	120.77	112.13
1	gn	167	ARG	O-C-N	-5.72	115.91	122.09
1	gy	18	ARG	CA-C-N	5.72	127.95	120.28
1	gy	18	ARG	C-N-CA	5.72	127.95	120.28
1	gW	21	ASN	O-C-N	-5.72	116.18	122.07
1	gY	105	ALA	CA-C-O	5.72	126.20	119.28
1	hd	224	PRO	N-CA-CB	-5.72	98.02	103.34
1	hw	52	LEU	CA-C-N	5.72	127.95	120.28
1	hw	52	LEU	C-N-CA	5.72	127.95	120.28
1	hx	121	ASN	CA-C-O	-5.72	114.06	119.55
1	it	184	TRP	CA-C-O	-5.72	114.81	120.82
1	iQ	63	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	iT	100	ARG	N-CA-C	-5.72	102.83	110.55
1	j3	179	GLN	O-C-N	-5.72	114.76	122.43
1	ja	185	MET	N-CA-C	5.72	117.60	111.36
1	jA	82	ARG	O-C-N	5.72	127.96	122.07
1	jT	24	VAL	CA-C-N	5.72	127.88	120.44
1	jT	24	VAL	C-N-CA	5.72	127.88	120.44
1	kl	30	LYS	CA-C-N	5.72	128.52	120.28
1	kl	30	LYS	C-N-CA	5.72	128.52	120.28
1	kM	99	PRO	CA-C-O	-5.72	114.90	121.36
1	kO	112	GLN	N-CA-C	5.72	117.98	111.11
1	l6	77	ALA	N-CA-C	5.72	117.52	111.28
1	lC	117	TRP	CA-CB-CG	5.72	124.47	113.60
1	lG	142	VAL	N-CA-C	5.72	116.18	110.23
1	2d	171	THR	N-CA-C	5.72	117.19	111.07
1	2E	114	GLN	CA-C-N	5.72	127.85	120.70
1	2E	114	GLN	C-N-CA	5.72	127.85	120.70
1	2G	114	GLN	CA-C-O	5.72	126.83	120.82
1	2Q	212	GLU	N-CA-C	5.72	119.36	112.38
1	3c	14	ALA	O-C-N	-5.72	116.25	123.12
1	3i	70	LYS	N-CA-C	5.72	118.25	111.33
1	3w	56	LEU	N-CA-C	-5.72	106.14	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4e	43	LEU	N-CA-C	5.72	117.52	111.28
1	4n	13	GLN	O-C-N	-5.72	116.29	123.27
1	4B	174	ALA	N-CA-CB	5.72	118.63	110.16
1	4K	86	VAL	O-C-N	-5.72	117.23	123.18
1	55	77	ALA	CA-C-O	5.72	126.61	120.55
1	5b	159	GLU	O-C-N	-5.72	115.81	121.19
1	5l	49	PRO	CA-C-N	5.72	128.74	120.79
1	5l	49	PRO	C-N-CA	5.72	128.74	120.79
1	5o	59	VAL	O-C-N	-5.72	116.08	122.66
1	5Q	3	VAL	CA-C-O	-5.72	114.30	120.36
1	6K	100	ARG	CA-C-N	5.72	126.45	119.99
1	6K	100	ARG	C-N-CA	5.72	126.45	119.99
1	6M	152	ASP	CA-C-N	5.72	130.42	122.93
1	6M	152	ASP	C-N-CA	5.72	130.42	122.93
1	6Z	189	LEU	N-CA-C	5.72	117.52	111.28
1	7c	98	GLU	CG-CD-OE1	5.72	131.56	118.40
1	7s	29	GLU	CA-C-O	5.72	126.55	119.97
1	7W	57	ASN	N-CA-CB	5.72	119.44	110.46
1	87	31	ALA	N-CA-CB	-5.72	100.82	110.49
1	8d	174	ALA	N-CA-CB	-5.72	101.52	110.44
1	8j	113	GLU	CA-C-N	5.72	128.41	120.29
1	8j	113	GLU	C-N-CA	5.72	128.41	120.29
1	8r	73	ILE	CA-CB-CG2	5.72	120.22	110.50
1	8D	70	LYS	N-CA-C	5.72	117.52	111.28
1	94	139	ASN	N-CA-C	5.72	117.52	111.28
1	9q	58	THR	OG1-CB-CG2	-5.72	97.86	109.30
1	9E	95	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	9O	97	ARG	NE-CZ-NH1	5.72	127.22	121.50
1	9X	107	THR	CA-CB-OG1	5.72	118.18	109.60
1	ao	120	HIS	N-CA-C	5.72	122.98	110.80
1	as	212	GLU	CA-C-N	5.72	127.95	120.28
1	as	212	GLU	C-N-CA	5.72	127.95	120.28
1	bg	137	GLY	O-C-N	-5.72	116.18	122.24
1	bS	9	GLN	N-CA-C	5.72	118.48	109.96
1	c6	19	THR	CA-C-N	5.72	127.95	120.28
1	c6	19	THR	C-N-CA	5.72	127.95	120.28
1	cb	161	PHE	CA-C-N	5.72	128.52	120.28
1	cb	161	PHE	C-N-CA	5.72	128.52	120.28
1	ce	2	ILE	CA-CB-CG2	-5.72	100.78	110.50
1	cn	140	LYS	N-CA-C	5.72	117.60	111.36
1	cS	101	GLY	O-C-N	-5.72	116.62	122.17
1	di	15	ILE	N-CA-C	5.72	116.79	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dr	137	GLY	O-C-N	-5.72	115.76	122.34
1	f1	114	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	fb	74	ASN	CA-C-O	5.72	126.83	120.82
1	fd	172	LEU	O-C-N	-5.72	114.82	122.43
1	fJ	112	GLN	CA-C-O	-5.72	114.81	120.70
1	fW	181	VAL	CB-CA-C	-5.72	104.53	112.02
1	g4	74	ASN	CA-C-O	-5.72	114.49	120.55
1	e	217	ALA	O-C-N	-5.72	116.18	122.07
1	x	82	ARG	N-CA-C	5.72	118.38	111.40
1	M	76	GLU	O-C-N	5.72	128.04	122.09
1	T	164	TYR	CG-CD1-CE1	-5.72	112.62	121.20
1	g8	86	VAL	N-CA-CB	-5.72	102.00	110.58
1	gb	229	ARG	CA-C-N	5.72	128.38	120.49
1	gb	229	ARG	C-N-CA	5.72	128.38	120.49
1	gr	37	ILE	N-CA-C	5.72	119.82	112.67
1	gG	122	PRO	CA-C-N	5.72	125.63	119.85
1	gG	122	PRO	C-N-CA	5.72	125.63	119.85
1	gH	200	THR	O-C-N	-5.72	116.18	122.07
1	h2	94	GLY	N-CA-C	-5.72	106.86	115.32
1	h8	49	PRO	CA-C-N	5.72	127.94	120.28
1	h8	49	PRO	C-N-CA	5.72	127.94	120.28
1	1J	79	GLU	CA-C-N	5.72	128.41	120.29
1	1J	79	GLU	C-N-CA	5.72	128.41	120.29
1	hs	37	ILE	CA-C-O	5.72	122.52	118.69
1	hx	36	VAL	N-CA-C	5.72	116.50	110.72
1	hF	39	MET	N-CA-C	5.72	117.59	111.36
1	hQ	197	ASP	O-C-N	-5.72	116.06	122.12
1	id	175	GLU	O-C-N	-5.72	116.26	123.01
1	ih	207	PRO	CA-C-N	5.72	131.09	122.68
1	ih	207	PRO	C-N-CA	5.72	131.09	122.68
1	ih	213	GLU	CA-C-N	5.72	128.26	120.54
1	ih	213	GLU	C-N-CA	5.72	128.26	120.54
1	1P	114	GLN	N-CA-C	5.72	117.51	111.28
1	io	43	LEU	CA-C-N	5.72	131.80	122.65
1	io	43	LEU	C-N-CA	5.72	131.80	122.65
1	iA	69	LEU	CA-C-N	5.72	128.52	120.28
1	iA	69	LEU	C-N-CA	5.72	128.52	120.28
1	iY	131	LYS	CA-C-O	-5.72	114.49	120.55
1	j5	74	ASN	O-C-N	-5.72	115.23	122.27
1	j6	105	ALA	O-C-N	-5.72	115.48	122.34
1	jc	78	ALA	N-CA-CB	-5.72	101.71	110.12
1	jd	86	VAL	N-CA-C	5.72	121.24	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jo	48	THR	CA-C-N	5.72	126.99	119.84
1	jo	48	THR	C-N-CA	5.72	126.99	119.84
1	jp	166	ASP	CA-C-N	5.72	127.94	120.28
1	jp	166	ASP	C-N-CA	5.72	127.94	120.28
1	jx	24	VAL	CA-C-N	5.72	127.94	120.28
1	jx	24	VAL	C-N-CA	5.72	127.94	120.28
1	jM	118	MET	O-C-N	-5.72	114.29	122.41
1	k2	153	ILE	N-CA-C	5.72	116.03	107.51
1	k9	47	ALA	N-CA-CB	5.72	118.52	109.71
1	kk	56	LEU	CA-C-N	5.72	127.88	120.44
1	kk	56	LEU	C-N-CA	5.72	127.88	120.44
1	kH	40	PHE	CB-CA-C	5.72	119.86	110.88
1	kK	143	ARG	N-CA-C	5.72	118.25	111.33
1	kN	47	ALA	N-CA-CB	-5.72	101.56	109.97
1	kQ	39	MET	CG-SD-CE	5.72	113.48	100.90
1	kT	34	PRO	CA-C-N	5.72	128.41	120.29
1	kT	34	PRO	C-N-CA	5.72	128.41	120.29
1	kT	103	ASP	CA-C-N	5.72	128.54	120.42
1	kT	103	ASP	C-N-CA	5.72	128.54	120.42
1	kX	77	ALA	N-CA-C	5.72	117.19	111.07
1	25	7	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	kZ	202	LEU	CA-C-O	5.72	126.61	120.55
1	ln	171	THR	OG1-CB-CG2	-5.72	97.86	109.30
1	lo	73	ILE	N-CA-CB	5.72	119.16	110.58
1	lq	72	THR	CA-C-N	5.72	128.30	120.46
1	lq	72	THR	C-N-CA	5.72	128.30	120.46
1	lC	133	TRP	CG-CD2-CE3	5.72	139.62	133.90
1	lR	178	SER	N-CA-C	5.72	122.98	110.80
1	2d	27	VAL	CA-CB-CG2	-5.72	100.68	110.40
1	2e	69	LEU	N-CA-C	5.72	118.25	111.33
1	2x	62	HIS	CB-CG-CD2	-5.72	123.77	131.20
1	2E	223	GLY	N-CA-C	5.72	124.01	112.34
1	2Q	34	PRO	O-C-N	5.72	128.36	122.18
1	2Q	172	LEU	N-CA-C	5.72	117.52	111.28
1	30	62	HIS	CB-CG-ND1	-5.72	114.12	122.70
1	3d	69	LEU	N-CA-C	5.72	117.19	111.07
1	3d	186	THR	CA-C-O	5.72	125.99	119.18
1	3o	135	ILE	CB-CA-C	5.72	120.11	112.22
1	3t	206	GLY	CA-C-N	5.72	126.99	119.84
1	3t	206	GLY	C-N-CA	5.72	126.99	119.84
1	3G	61	GLY	CA-C-N	5.72	130.48	122.36
1	3G	61	GLY	C-N-CA	5.72	130.48	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3J	174	ALA	CA-C-O	5.72	126.40	119.31
1	4g	185	MET	N-CA-C	5.72	117.51	111.28
1	4s	71	GLU	N-CA-C	5.72	117.19	111.07
1	4v	67	GLN	O-C-N	-5.72	116.06	122.12
1	4w	84	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	4B	29	GLU	CA-C-O	5.72	126.45	119.64
1	5e	206	GLY	N-CA-C	5.72	124.01	112.34
1	5k	192	GLN	N-CA-C	5.72	118.25	111.33
1	5t	62	HIS	CB-CG-ND1	-5.72	114.12	122.70
1	5I	138	LEU	N-CA-CB	-5.72	101.41	110.28
1	5J	206	GLY	CA-C-N	5.72	126.99	119.84
1	5J	206	GLY	C-N-CA	5.72	126.99	119.84
1	5L	120	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	5T	12	HIS	N-CA-C	5.72	118.31	110.24
1	5V	199	LYS	N-CA-C	5.72	118.25	111.33
1	6a	219	GLN	N-CA-C	5.72	118.25	111.33
1	6r	180	GLU	CA-C-O	5.72	126.48	120.42
1	6v	144	MET	CG-SD-CE	-5.72	88.32	100.90
1	6w	175	GLU	O-C-N	-5.72	116.72	123.41
1	6z	45	GLU	N-CA-C	5.72	122.98	110.80
1	6S	90	PRO	N-CA-CB	5.72	109.26	103.25
1	6V	87	HIS	CA-CB-CG	5.72	119.52	113.80
1	74	9	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	77	170	LYS	CA-C-N	5.72	128.41	120.29
1	77	170	LYS	C-N-CA	5.72	128.41	120.29
1	7a	203	LYS	CA-C-N	5.72	128.41	120.29
1	7a	203	LYS	C-N-CA	5.72	128.41	120.29
1	7q	139	ASN	OD1-CG-ND2	5.72	128.32	122.60
1	7t	145	TYR	CA-C-N	5.72	131.25	121.35
1	7t	145	TYR	C-N-CA	5.72	131.25	121.35
1	7A	121	ASN	CA-C-N	5.72	126.27	120.38
1	7A	121	ASN	C-N-CA	5.72	126.27	120.38
1	7F	55	MET	CA-C-N	5.72	128.74	120.79
1	7F	55	MET	C-N-CA	5.72	128.74	120.79
1	7O	115	ILE	CA-C-N	5.72	126.33	119.98
1	7O	115	ILE	C-N-CA	5.72	126.33	119.98
1	7U	206	GLY	CA-C-N	5.72	125.39	119.56
1	7U	206	GLY	C-N-CA	5.72	125.39	119.56
1	80	77	ALA	CA-C-N	5.72	128.22	120.44
1	80	77	ALA	C-N-CA	5.72	128.22	120.44
1	80	124	ILE	N-CA-C	-5.72	101.89	107.55
1	82	59	VAL	N-CA-C	5.72	116.45	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	85	124	ILE	O-C-N	-5.72	114.58	121.10
1	87	100	ARG	N-CA-C	5.72	117.45	110.41
1	8a	120	HIS	O-C-N	-5.72	115.50	122.82
1	8a	188	THR	CA-C-N	5.72	128.22	120.38
1	8a	188	THR	C-N-CA	5.72	128.22	120.38
1	8c	227	LYS	N-CA-C	5.72	117.97	108.99
1	8e	54	THR	OG1-CB-CG2	-5.72	97.86	109.30
1	8A	156	GLY	CA-C-O	-5.72	113.34	121.52
1	8F	126	VAL	CA-C-N	5.72	127.48	120.22
1	8F	126	VAL	C-N-CA	5.72	127.48	120.22
1	8R	102	SER	N-CA-CB	5.72	118.62	110.16
1	90	146	SER	CA-C-O	-5.72	114.08	119.80
1	91	84	HIS	CA-C-N	5.72	126.04	119.92
1	91	84	HIS	C-N-CA	5.72	126.04	119.92
1	98	149	SER	CA-C-N	5.72	127.98	120.60
1	98	149	SER	C-N-CA	5.72	127.98	120.60
1	9j	84	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	a6	155	GLN	CG-CD-OE1	5.72	132.24	120.80
1	a8	105	ALA	CB-CA-C	-5.72	99.69	110.67
1	ah	67	GLN	N-CA-C	5.72	117.51	111.28
1	al	25	LYS	CA-C-O	5.72	125.96	119.27
1	am	87	HIS	CA-CB-CG	5.72	119.52	113.80
1	az	212	GLU	CB-CA-C	5.72	119.96	110.81
1	b2	99	PRO	N-CA-C	5.72	119.84	111.03
1	bl	24	VAL	N-CA-CB	5.72	117.24	110.55
1	bC	173	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
1	bG	25	LYS	O-C-N	-5.72	116.06	122.12
1	bT	57	ASN	OD1-CG-ND2	-5.72	116.88	122.60
1	bT	98	GLU	CA-C-O	-5.72	112.33	120.16
1	c5	27	VAL	CA-CB-CG2	-5.72	100.68	110.40
1	c9	132	ARG	CD-NE-CZ	5.72	132.41	124.40
1	1d	190	LEU	CA-C-O	5.72	126.61	120.55
1	cs	79	GLU	N-CA-CB	-5.72	101.69	110.16
1	cu	62	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	d3	54	THR	CB-CA-C	-5.72	101.13	110.85
1	d3	132	ARG	CA-C-O	5.72	126.56	120.10
1	d6	31	ALA	N-CA-C	5.72	122.98	110.80
1	d8	29	GLU	CA-CB-CG	5.72	125.54	114.10
1	db	152	ASP	N-CA-C	-5.72	102.33	111.02
1	di	56	LEU	CB-CA-C	-5.72	99.30	110.11
1	dj	139	ASN	CA-CB-CG	-5.72	106.88	112.60
1	dm	34	PRO	N-CA-C	5.72	124.25	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dp	100	ARG	CA-C-N	5.72	126.45	119.99
1	dp	100	ARG	C-N-CA	5.72	126.45	119.99
1	dt	135	ILE	N-CA-CB	5.72	117.24	110.55
1	dy	145	TYR	CB-CG-CD1	-5.72	112.22	120.80
1	dC	31	ALA	O-C-N	-5.72	114.98	122.59
1	dC	70	LYS	N-CA-CB	-5.72	101.71	110.12
1	dE	39	MET	CG-SD-CE	-5.72	88.32	100.90
1	dL	202	LEU	CB-CA-C	5.72	119.60	109.65
1	dN	177	ALA	CA-C-N	5.72	131.38	120.97
1	dN	177	ALA	C-N-CA	5.72	131.38	120.97
1	dQ	126	VAL	CA-C-N	5.72	126.33	119.98
1	dQ	126	VAL	C-N-CA	5.72	126.33	119.98
1	e9	197	ASP	CA-C-O	5.72	126.61	120.55
1	ec	105	ALA	N-CA-CB	-5.72	100.80	110.41
1	eG	138	LEU	O-C-N	-5.72	115.63	122.15
1	eO	4	GLN	CA-C-O	5.72	128.31	119.96
1	1t	71	GLU	N-CA-CB	5.72	119.03	110.22
1	eR	165	VAL	N-CA-CB	5.72	117.24	110.55
1	eS	188	THR	CA-C-N	5.72	131.35	122.26
1	eS	188	THR	C-N-CA	5.72	131.35	122.26
1	eZ	205	LEU	CA-C-O	5.72	126.61	119.12
1	f7	164	TYR	N-CA-C	5.72	117.59	111.36
1	fx	91	ILE	CB-CA-C	5.72	119.31	110.50
1	fB	203	LYS	CA-C-O	5.72	126.81	120.63
1	1y	72	THR	N-CA-CB	5.72	118.53	110.12
1	g2	142	VAL	CB-CA-C	-5.72	104.33	112.22
1	g2	179	GLN	N-CA-C	5.72	117.19	111.07
1	0	185	MET	CA-C-N	5.72	127.94	120.28
1	0	185	MET	C-N-CA	5.72	127.94	120.28
1	j	100	ARG	CA-C-N	5.72	127.29	120.14
1	j	100	ARG	C-N-CA	5.72	127.29	120.14
1	1	34	PRO	CA-C-N	5.72	127.94	120.28
1	1	34	PRO	C-N-CA	5.72	127.94	120.28
1	t	32	PHE	CA-CB-CG	5.72	119.52	113.80
1	w	54	THR	CA-C-O	-5.72	114.45	120.63
1	8	177	ALA	N-CA-C	5.72	122.98	110.80
1	9	120	HIS	O-C-N	-5.72	116.27	122.79
1	1D	13	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	gY	184	TRP	CA-C-O	5.72	126.81	120.63
1	hu	211	LEU	CA-C-N	5.72	127.94	120.28
1	hu	211	LEU	C-N-CA	5.72	127.94	120.28
1	1K	48	THR	CA-CB-OG1	5.72	118.18	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hQ	178	SER	N-CA-C	5.72	118.08	110.53
1	hU	181	VAL	O-C-N	-5.72	116.32	121.87
1	ic	219	GLN	CA-C-O	5.72	126.20	119.28
1	ih	132	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
1	jf	163	ASP	CA-CB-CG	-5.72	106.88	112.60
1	jl	94	GLY	CA-C-O	5.72	125.32	118.97
1	jm	163	ASP	CA-C-O	5.72	126.82	120.82
1	jT	205	LEU	N-CA-CB	5.72	118.53	110.12
1	jU	73	ILE	CA-C-O	-5.72	115.32	121.27
1	k0	225	GLY	O-C-N	-5.72	116.05	122.28
1	21	15	ILE	CA-CB-CG2	-5.72	100.78	110.50
1	kw	72	THR	CA-C-N	5.72	128.29	120.46
1	kw	72	THR	C-N-CA	5.72	128.29	120.46
1	l0	174	ALA	N-CA-CB	-5.72	101.52	110.44
1	ld	50	GLN	N-CA-C	5.72	117.51	111.28
1	2b	228	ALA	O-C-N	-5.72	116.27	122.79
1	2i	201	ILE	N-CA-CB	5.72	117.24	110.55
1	2l	12	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	2q	176	GLN	N-CA-C	5.72	120.38	113.17
1	2J	130	TYR	N-CA-CB	5.72	118.62	110.16
1	2N	193	ASN	CA-C-N	5.72	131.25	121.87
1	2N	193	ASN	C-N-CA	5.72	131.25	121.87
1	2Z	197	ASP	CA-CB-CG	-5.72	106.88	112.60
1	3m	131	LYS	CA-C-N	5.72	127.94	120.28
1	3m	131	LYS	C-N-CA	5.72	127.94	120.28
1	3W	56	LEU	N-CA-C	5.72	117.51	111.28
1	40	138	LEU	O-C-N	-5.72	116.06	122.12
1	4y	5	ASN	CA-C-N	5.72	128.41	120.29
1	4y	5	ASN	C-N-CA	5.72	128.41	120.29
1	4E	130	TYR	CA-C-N	5.72	127.94	120.28
1	4E	130	TYR	C-N-CA	5.72	127.94	120.28
1	5z	66	MET	N-CA-C	5.72	118.45	111.82
1	5H	31	ALA	N-CA-C	5.72	117.00	108.31
1	63	47	ALA	CA-C-N	5.72	131.74	122.48
1	63	47	ALA	C-N-CA	5.72	131.74	122.48
1	6b	111	LEU	CA-C-N	5.72	127.87	120.44
1	6b	111	LEU	C-N-CA	5.72	127.87	120.44
1	6m	214	MET	N-CA-C	5.72	117.19	111.07
1	6n	19	THR	CA-C-O	5.72	126.61	120.55
1	6O	218	CYS	CB-CA-C	-5.72	104.20	111.86
1	6W	92	GLU	O-C-N	-5.72	115.41	121.30
1	7e	118	MET	N-CA-C	5.72	120.37	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7v	116	GLY	CA-C-N	5.72	127.87	120.44
1	7v	116	GLY	C-N-CA	5.72	127.87	120.44
1	7z	58	THR	CA-C-N	5.72	128.30	120.35
1	7z	58	THR	C-N-CA	5.72	128.30	120.35
1	7L	83	LEU	N-CA-C	5.72	118.45	111.82
1	7R	184	TRP	CA-C-O	5.72	126.82	120.82
1	86	50	GLN	N-CA-CB	5.72	118.30	110.01
1	86	102	SER	CA-C-O	-5.72	114.49	120.55
1	8h	26	VAL	CA-C-N	5.72	128.29	120.46
1	8h	26	VAL	C-N-CA	5.72	128.29	120.46
1	8I	56	LEU	N-CA-CB	-5.72	101.42	110.28
1	8R	58	THR	CA-C-N	5.72	132.26	121.97
1	8R	58	THR	C-N-CA	5.72	132.26	121.97
1	8U	54	THR	CA-C-N	5.72	127.94	120.28
1	8U	54	THR	C-N-CA	5.72	127.94	120.28
1	9O	149	SER	CA-C-N	5.72	128.29	120.46
1	9O	149	SER	C-N-CA	5.72	128.29	120.46
1	9W	58	THR	CA-C-N	5.72	128.16	120.50
1	9W	58	THR	C-N-CA	5.72	128.16	120.50
1	aq	130	TYR	CA-C-N	5.72	127.94	120.28
1	aq	130	TYR	C-N-CA	5.72	127.94	120.28
1	av	95	GLN	N-CA-C	5.72	117.62	108.41
1	aN	36	VAL	N-CA-C	5.72	116.36	110.36
1	aU	125	PRO	CA-C-O	-5.72	117.08	121.31
1	15	114	GLN	CA-C-N	5.72	127.76	120.56
1	15	114	GLN	C-N-CA	5.72	127.76	120.56
1	be	48	THR	N-CA-CB	5.72	116.37	109.74
1	bn	169	TYR	N-CA-C	5.72	117.51	111.28
1	bA	82	ARG	NE-CZ-NH2	-5.72	114.05	119.20
1	bN	129	ILE	CA-CB-CG2	5.72	120.22	110.50
1	bQ	2	ILE	CB-CA-C	-5.72	103.15	110.98
1	1d	224	PRO	CA-C-O	-5.72	117.08	121.31
1	cg	134	ILE	N-CA-CB	5.72	116.86	110.51
1	d5	62	HIS	N-CA-CB	-5.72	103.24	111.70
1	dg	37	ILE	CA-CB-CG2	5.72	120.22	110.50
1	dv	72	THR	CB-CA-C	-5.72	101.90	110.88
1	dw	23	TRP	CE2-CD2-CE3	5.72	124.52	118.80
1	dy	100	ARG	CG-CD-NE	-5.72	99.42	112.00
1	dO	74	ASN	CA-CB-CG	5.72	118.32	112.60
1	e1	190	LEU	O-C-N	-5.72	116.06	122.12
1	ec	134	ILE	N-CA-C	5.72	115.91	110.42
1	eE	133	TRP	CA-CB-CG	5.72	124.46	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eF	215	MET	N-CA-C	5.72	117.59	111.36
1	1u	91	ILE	CB-CA-C	5.72	118.99	111.33
1	fI	217	ALA	CA-C-N	5.72	132.46	121.54
1	fI	217	ALA	C-N-CA	5.72	132.46	121.54
1	g	93	PRO	CA-C-N	5.72	129.38	121.26
1	g	93	PRO	C-N-CA	5.72	129.38	121.26
1	1	68	MET	N-CA-CB	5.72	118.30	110.01
1	k	66	MET	N-CA-CB	-5.72	101.72	110.12
1	m	7	GLN	N-CA-CB	5.72	120.15	110.49
1	4	215	MET	CG-SD-CE	-5.72	88.32	100.90
1	T	127	GLY	N-CA-C	-5.72	105.57	112.49
1	go	195	ASN	CA-C-O	-5.72	114.22	120.17
1	gH	159	GLU	N-CA-C	5.72	117.19	109.24
1	gL	79	GLU	CB-CA-C	-5.72	101.30	110.79
1	hj	12	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	hv	82	ARG	O-C-N	-5.72	115.53	122.22
1	hH	53	ASN	CA-CB-CG	-5.72	106.88	112.60
1	hL	36	VAL	N-CA-C	5.72	117.14	110.62
1	hY	94	GLY	N-CA-C	5.72	118.62	112.33
1	hZ	200	THR	CA-C-N	5.72	128.29	120.46
1	hZ	200	THR	C-N-CA	5.72	128.29	120.46
1	i7	41	SER	CA-C-N	5.72	127.87	120.44
1	i7	41	SER	C-N-CA	5.72	127.87	120.44
1	i7	146	SER	N-CA-C	5.72	117.78	109.84
1	i9	143	ARG	CA-C-N	5.72	127.94	120.28
1	i9	143	ARG	C-N-CA	5.72	127.94	120.28
1	ij	69	LEU	N-CA-C	5.72	117.97	111.11
1	in	119	THR	CA-C-N	5.72	128.99	120.87
1	in	119	THR	C-N-CA	5.72	128.99	120.87
1	1P	128	GLU	N-CA-C	5.72	117.51	111.28
1	iC	42	ALA	N-CA-C	5.72	117.19	111.07
1	iQ	69	LEU	CA-C-N	5.72	127.94	120.28
1	iQ	69	LEU	C-N-CA	5.72	127.94	120.28
1	iV	226	HIS	CA-CB-CG	-5.72	108.08	113.80
1	ju	124	ILE	CA-C-O	-5.72	115.78	119.15
1	jI	120	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	jU	62	HIS	CA-CB-CG	-5.72	108.08	113.80
1	jX	63	GLN	CB-CG-CD	5.72	122.32	112.60
1	1Z	182	LYS	CA-C-O	5.72	126.43	119.11
1	k4	212	GLU	N-CA-C	5.72	117.51	111.28
1	k8	112	GLN	CG-CD-NE2	5.72	124.98	116.40
1	kd	76	GLU	N-CA-C	5.72	117.51	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kf	207	PRO	CA-N-CD	-5.72	104.00	112.00
1	kl	75	GLU	N-CA-C	5.72	117.19	111.07
1	km	76	GLU	O-C-N	-5.72	115.63	122.15
1	kn	162	ARG	N-CA-C	5.72	118.28	111.71
1	kp	97	ARG	O-C-N	-5.72	116.11	122.86
1	23	39	MET	CA-C-N	5.72	127.94	120.28
1	23	39	MET	C-N-CA	5.72	127.94	120.28
1	kJ	48	THR	CA-C-N	5.72	125.57	119.28
1	kJ	48	THR	C-N-CA	5.72	125.57	119.28
1	kY	185	MET	N-CA-C	5.72	117.19	111.07
1	l6	143	ARG	NE-CZ-NH2	-5.72	114.06	119.20
1	ld	72	THR	CA-C-O	-5.72	113.89	120.24
1	lk	35	GLU	N-CA-C	5.72	119.51	112.54
1	lp	199	LYS	N-CA-C	5.72	118.25	111.33
1	lG	31	ALA	N-CA-C	5.72	117.51	111.28
1	lL	71	GLU	N-CA-C	5.72	117.97	111.11
1	lO	157	PRO	N-CA-C	5.72	124.25	112.47
1	lO	191	VAL	N-CA-C	5.72	115.91	110.42
1	2c	150	ILE	CA-C-O	5.72	126.40	119.54
1	2d	195	ASN	CA-C-N	5.72	125.08	118.85
1	2d	195	ASN	C-N-CA	5.72	125.08	118.85
1	2h	80	TRP	CE3-CZ3-CH2	-5.72	113.67	121.10
1	2w	171	THR	CA-C-N	5.72	127.87	120.44
1	2w	171	THR	C-N-CA	5.72	127.87	120.44
1	2G	103	ASP	CA-C-N	5.72	128.29	120.46
1	2G	103	ASP	C-N-CA	5.72	128.29	120.46
1	2K	179	GLN	CA-C-O	-5.72	114.49	120.55
1	2L	181	VAL	CA-C-O	5.72	126.50	119.58
1	2O	146	SER	CA-C-N	5.72	125.84	119.32
1	2O	146	SER	C-N-CA	5.72	125.84	119.32
1	2T	43	LEU	CA-C-N	5.72	131.47	122.49
1	2T	43	LEU	C-N-CA	5.72	131.47	122.49
1	2X	181	VAL	CA-C-N	5.72	128.21	120.38
1	2X	181	VAL	C-N-CA	5.72	128.21	120.38
1	37	193	ASN	O-C-N	-5.72	115.02	122.39
1	3d	200	THR	N-CA-C	5.72	117.51	111.28
1	3j	102	SER	O-C-N	-5.72	115.53	122.22
1	3l	76	GLU	N-CA-C	5.72	117.19	111.07
1	3z	105	ALA	O-C-N	-5.72	114.96	122.39
1	3B	27	VAL	CA-C-N	5.72	128.74	120.79
1	3B	27	VAL	C-N-CA	5.72	128.74	120.79
1	3L	145	TYR	O-C-N	-5.72	115.45	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3N	78	ALA	N-CA-C	5.72	117.59	111.36
1	3Y	112	GLN	CA-C-N	5.72	127.87	120.44
1	3Y	112	GLN	C-N-CA	5.72	127.87	120.44
1	41	103	ASP	CA-C-O	5.72	126.59	120.70
1	4k	206	GLY	O-C-N	5.72	127.49	121.77
1	4A	179	GLN	CA-C-N	5.72	128.41	120.29
1	4A	179	GLN	C-N-CA	5.72	128.41	120.29
1	4I	72	THR	N-CA-CB	5.72	118.46	109.94
1	4Z	210	THR	O-C-N	-5.72	115.93	122.68
1	58	133	TRP	O-C-N	-5.72	116.06	122.12
1	5b	4	GLN	N-CA-C	5.72	119.84	112.41
1	5r	62	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	5x	84	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	5y	92	GLU	N-CA-C	5.72	117.97	110.08
1	5N	65	ALA	CB-CA-C	-5.72	101.91	110.88
1	5P	95	GLN	OE1-CD-NE2	-5.72	116.88	122.60
1	5V	226	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	5X	127	GLY	N-CA-C	5.72	120.09	112.77
1	5X	144	MET	CG-SD-CE	-5.72	88.32	100.90
1	61	38	PRO	O-C-N	-5.72	115.67	122.24
1	6v	185	MET	N-CA-C	5.72	117.19	111.07
1	6U	152	ASP	CA-C-O	5.72	126.97	120.00
1	6X	140	LYS	CA-C-N	5.72	128.29	120.46
1	6X	140	LYS	C-N-CA	5.72	128.29	120.46
1	79	31	ALA	N-CA-C	5.72	117.97	111.11
1	7b	22	ALA	N-CA-C	5.72	117.51	111.28
1	7m	103	ASP	CA-C-N	5.72	127.76	120.56
1	7m	103	ASP	C-N-CA	5.72	127.76	120.56
1	7C	59	VAL	N-CA-C	5.72	116.98	108.23
1	7C	141	ILE	CA-C-O	-5.72	115.00	120.95
1	7C	168	PHE	O-C-N	-5.72	116.18	122.07
1	7J	64	ALA	CA-C-N	5.72	128.41	120.29
1	7J	64	ALA	C-N-CA	5.72	128.41	120.29
1	7M	90	PRO	N-CA-CB	5.72	108.33	103.19
1	7M	98	GLU	CB-CA-C	-5.72	100.36	109.51
1	7T	146	SER	CA-C-O	-5.72	113.83	119.49
1	7W	41	SER	N-CA-C	5.72	117.19	111.07
1	86	87	HIS	CB-CG-ND1	5.72	131.28	122.70
1	8b	14	ALA	CA-C-N	5.72	128.86	120.91
1	8b	14	ALA	C-N-CA	5.72	128.86	120.91
1	8i	91	ILE	CA-CB-CG2	-5.72	100.78	110.50
1	8n	204	ALA	CA-C-O	5.72	126.48	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8q	51	ASP	CA-CB-CG	-5.72	106.88	112.60
1	8N	190	LEU	CA-C-O	5.72	126.82	120.82
1	8P	77	ALA	N-CA-C	5.72	117.99	111.02
1	9d	179	GLN	N-CA-C	5.72	117.97	111.11
1	9k	181	VAL	N-CA-C	5.72	115.91	110.42
1	9r	83	LEU	CA-C-O	5.72	126.41	119.38
1	9B	230	VAL	CB-CA-C	-5.72	103.39	111.28
1	9C	102	SER	N-CA-C	5.72	117.51	111.28
1	9M	230	VAL	N-CA-C	-5.72	103.78	111.44
1	9N	7	GLN	CB-CG-CD	-5.72	102.88	112.60
1	9S	203	LYS	CA-C-N	5.72	127.94	120.28
1	9S	203	LYS	C-N-CA	5.72	127.94	120.28
1	Z	13	GLN	N-CA-C	-5.72	100.57	109.72
1	aC	224	PRO	N-CD-CG	5.72	111.78	103.20
1	aS	62	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	aW	181	VAL	CA-C-N	5.72	128.21	120.38
1	aW	181	VAL	C-N-CA	5.72	128.21	120.38
1	aX	46	GLY	O-C-N	-5.72	115.36	122.34
1	b0	225	GLY	O-C-N	-5.72	115.22	122.82
1	b9	144	MET	N-CA-C	5.72	117.31	111.14
1	bb	13	GLN	N-CA-C	5.72	117.87	109.24
1	bb	177	ALA	O-C-N	-5.72	116.11	122.86
1	bg	102	SER	CA-C-O	5.72	126.43	119.11
1	17	79	GLU	N-CA-C	5.72	117.51	111.28
1	bl	90	PRO	N-CA-C	5.72	124.25	112.47
1	bq	229	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
1	19	82	ARG	CA-C-N	5.72	128.41	120.29
1	19	82	ARG	C-N-CA	5.72	128.41	120.29
1	bK	173	ARG	NE-CZ-NH2	-5.72	114.06	119.20
1	bN	95	GLN	CB-CG-CD	5.72	122.32	112.60
1	bV	154	ARG	N-CA-C	5.72	118.81	108.69
1	bZ	164	TYR	O-C-N	-5.72	115.92	122.09
1	c3	191	VAL	O-C-N	5.72	127.51	121.91
1	ce	72	THR	N-CA-C	-5.72	104.95	111.07
1	ci	227	LYS	CA-C-N	5.72	128.41	120.29
1	ci	227	LYS	C-N-CA	5.72	128.41	120.29
1	cI	68	MET	CA-C-N	5.72	127.94	120.28
1	cI	68	MET	C-N-CA	5.72	127.94	120.28
1	cX	197	ASP	CA-C-N	5.72	128.41	120.29
1	cX	197	ASP	C-N-CA	5.72	128.41	120.29
1	d1	21	ASN	N-CA-C	5.72	117.59	111.36
1	d6	135	ILE	N-CA-C	5.72	116.49	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	12	HIS	CE1-NE2-CD2	-5.72	103.28	109.00
1	da	121	ASN	CB-CA-C	5.72	119.60	110.62
1	dg	30	LYS	N-CA-C	5.72	121.15	113.72
1	dQ	220	GLY	CA-C-N	5.72	129.50	120.47
1	dQ	220	GLY	C-N-CA	5.72	129.50	120.47
1	dS	114	GLN	CA-C-N	5.72	128.29	120.46
1	dS	114	GLN	C-N-CA	5.72	128.29	120.46
1	dV	100	ARG	O-C-N	-5.72	114.63	122.23
1	dX	205	LEU	CA-C-N	5.72	130.85	121.87
1	dX	205	LEU	C-N-CA	5.72	130.85	121.87
1	en	163	ASP	CA-C-N	5.72	127.87	120.44
1	en	163	ASP	C-N-CA	5.72	127.87	120.44
1	eo	218	CYS	N-CA-C	5.72	119.56	112.24
1	es	12	HIS	ND1-CE1-NE2	5.72	114.12	108.40
1	ey	79	GLU	CG-CD-OE1	5.72	131.55	118.40
1	ey	171	THR	N-CA-CB	5.72	118.30	110.01
1	1t	177	ALA	N-CA-C	5.72	117.36	107.93
1	fa	84	HIS	CB-CA-C	-5.72	102.91	110.34
1	fd	224	PRO	CB-CA-C	5.72	120.99	111.56
1	fs	52	LEU	CA-C-N	5.72	127.87	120.44
1	fs	52	LEU	C-N-CA	5.72	127.87	120.44
1	fF	52	LEU	O-C-N	-5.72	115.24	122.27
1	fJ	149	SER	CA-C-N	5.72	128.29	120.46
1	fJ	149	SER	C-N-CA	5.72	128.29	120.46
1	fM	175	GLU	CA-C-O	-5.72	115.27	121.44
1	fO	155	GLN	O-C-N	-5.72	116.55	123.29
1	fS	84	HIS	CA-C-O	-5.72	114.08	119.80
1	fY	226	HIS	CG-CD2-NE2	5.72	112.92	107.20
1	f	181	VAL	O-C-N	-5.72	116.31	121.91
1	r	110	THR	O-C-N	-5.72	116.64	123.27
1	2	23	TRP	N-CA-C	5.72	117.97	111.11
1	F	186	THR	N-CA-CB	5.72	118.30	110.01
1	I	41	SER	CA-C-N	5.72	128.51	120.28
1	I	41	SER	C-N-CA	5.72	128.51	120.28
1	O	47	ALA	CA-C-O	5.72	127.48	121.19
1	g8	132	ARG	CB-CG-CD	5.71	124.44	111.30
1	1D	21	ASN	CB-CG-ND2	5.71	124.97	116.40
1	gC	210	THR	N-CA-CB	5.71	118.53	110.36
1	gI	208	ALA	N-CA-CB	-5.71	101.70	110.44
1	1G	156	GLY	O-C-N	-5.71	115.52	122.03
1	h0	33	SER	CA-C-N	5.71	125.39	119.05
1	h0	33	SER	C-N-CA	5.71	125.39	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	24	VAL	CA-C-O	5.71	127.92	120.78
1	hb	209	ALA	N-CA-C	5.71	117.90	110.53
1	1J	88	ALA	N-CA-C	-5.71	105.98	113.12
1	hq	168	PHE	N-CA-C	5.71	117.19	111.07
1	hr	193	ASN	CA-CB-CG	-5.71	106.89	112.60
1	hy	33	SER	CA-C-O	-5.71	114.23	120.69
1	hW	37	ILE	CA-C-N	5.71	125.41	119.64
1	hW	37	ILE	C-N-CA	5.71	125.41	119.64
1	hW	188	THR	CA-C-N	5.71	128.41	120.29
1	hW	188	THR	C-N-CA	5.71	128.41	120.29
1	ii	208	ALA	O-C-N	-5.71	115.83	122.86
1	ir	136	LEU	CA-C-N	5.71	126.43	120.03
1	ir	136	LEU	C-N-CA	5.71	126.43	120.03
1	iu	73	ILE	CA-C-N	5.71	128.41	120.29
1	iu	73	ILE	C-N-CA	5.71	128.41	120.29
1	1Q	29	GLU	N-CA-C	5.71	118.37	111.40
1	iB	64	ALA	O-C-N	-5.71	116.18	122.07
1	iE	114	GLN	N-CA-C	5.71	117.51	111.28
1	iG	208	ALA	N-CA-C	5.71	119.13	111.24
1	iI	204	ALA	CA-C-N	5.71	127.87	120.44
1	iI	204	ALA	C-N-CA	5.71	127.87	120.44
1	iO	187	GLU	N-CA-C	5.71	117.51	111.28
1	iW	125	PRO	CA-C-N	5.71	128.29	120.46
1	iW	125	PRO	C-N-CA	5.71	128.29	120.46
1	je	11	VAL	O-C-N	-5.71	115.43	122.57
1	jl	16	SER	CA-C-N	5.71	125.39	119.56
1	jl	16	SER	C-N-CA	5.71	125.39	119.56
1	jn	197	ASP	N-CA-C	5.71	117.51	111.28
1	jJ	112	GLN	CA-C-N	5.71	127.87	120.44
1	jJ	112	GLN	C-N-CA	5.71	127.87	120.44
1	jO	66	MET	CA-C-N	5.71	127.87	120.44
1	jO	66	MET	C-N-CA	5.71	127.87	120.44
1	1Y	180	GLU	O-C-N	-5.71	116.06	122.12
1	ka	27	VAL	CA-C-N	5.71	128.21	120.44
1	ka	27	VAL	C-N-CA	5.71	128.21	120.44
1	kc	18	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
1	kc	226	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	kj	148	THR	N-CA-C	5.71	118.87	110.30
1	ko	189	LEU	N-CA-CB	-5.71	101.42	110.28
1	kF	139	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	kO	68	MET	CA-C-O	5.71	126.80	120.63
1	kP	84	HIS	CA-C-N	5.71	126.98	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kP	84	HIS	C-N-CA	5.71	126.98	119.84
1	kV	57	ASN	CA-CB-CG	-5.71	106.89	112.60
1	lc	183	ASN	CB-CA-C	-5.71	101.30	110.79
1	li	204	ALA	CA-C-O	5.71	125.96	119.27
1	lE	14	ALA	N-CA-C	5.71	118.74	110.28
1	lG	40	PHE	CA-C-N	5.71	127.94	120.28
1	lG	40	PHE	C-N-CA	5.71	127.94	120.28
1	lG	47	ALA	N-CA-C	5.71	117.99	109.25
1	lL	59	VAL	CA-CB-CG2	-5.71	100.69	110.40
1	2b	168	PHE	CB-CA-C	5.71	119.95	110.81
1	2g	184	TRP	N-CA-C	5.71	117.51	111.28
1	2l	213	GLU	CA-C-O	5.71	126.48	120.42
1	2n	140	LYS	CA-C-N	5.71	127.76	120.56
1	2n	140	LYS	C-N-CA	5.71	127.76	120.56
1	2v	182	LYS	CA-C-N	5.71	127.94	120.28
1	2v	182	LYS	C-N-CA	5.71	127.94	120.28
1	2y	122	PRO	CA-C-N	5.71	125.67	119.78
1	2y	122	PRO	C-N-CA	5.71	125.67	119.78
1	2L	136	LEU	N-CA-C	5.71	117.51	111.28
1	2O	174	ALA	CA-C-N	5.71	129.59	121.42
1	2O	174	ALA	C-N-CA	5.71	129.59	121.42
1	3k	21	ASN	N-CA-C	5.71	117.51	111.28
1	3r	161	PHE	CA-CB-CG	-5.71	108.08	113.80
1	3z	80	TRP	O-C-N	-5.71	115.92	122.09
1	3L	226	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	43	2	ILE	N-CA-CB	5.71	118.09	110.26
1	44	148	THR	CA-C-N	5.71	131.54	122.74
1	44	148	THR	C-N-CA	5.71	131.54	122.74
1	4d	71	GLU	N-CA-CB	5.71	118.52	110.12
1	4j	74	ASN	OD1-CG-ND2	5.71	128.31	122.60
1	4p	218	CYS	CA-C-O	-5.71	115.21	121.84
1	4A	213	GLU	CA-C-O	5.71	126.48	120.42
1	4P	50	GLN	CG-CD-NE2	5.71	124.97	116.40
1	4Q	71	GLU	CB-CG-CD	5.71	122.31	112.60
1	4S	189	LEU	O-C-N	-5.71	116.06	122.12
1	4V	179	GLN	N-CA-C	5.71	122.97	110.80
1	52	34	PRO	CA-C-O	-5.71	111.01	119.18
1	54	12	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	5r	62	HIS	CB-CG-ND1	-5.71	114.13	122.70
1	5y	69	LEU	O-C-N	-5.71	116.18	122.07
1	5T	217	ALA	N-CA-C	5.71	118.12	110.35
1	5X	12	HIS	CE1-NE2-CD2	-5.71	103.28	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	70	LYS	N-CA-C	5.71	117.51	111.28
1	5Y	81	ASP	CA-C-O	-5.71	114.36	120.42
1	69	103	ASP	N-CA-C	-5.71	105.98	113.12
1	6m	156	GLY	CA-C-O	-5.71	113.35	121.52
1	6n	170	LYS	N-CA-C	5.71	117.59	111.36
1	6O	3	VAL	N-CA-CB	-5.71	104.79	112.10
1	6S	214	MET	CG-SD-CE	-5.71	88.33	100.90
1	72	28	GLU	CA-C-N	5.71	128.41	120.29
1	72	28	GLU	C-N-CA	5.71	128.41	120.29
1	73	153	ILE	N-CA-C	5.71	116.95	109.58
1	7g	185	MET	CB-CA-C	-5.71	101.30	110.79
1	7n	73	ILE	CA-CB-CG1	5.71	120.11	110.40
1	7L	107	THR	N-CA-CB	5.71	118.93	110.53
1	7W	64	ALA	CA-C-O	5.71	126.82	120.82
1	8f	24	VAL	CB-CA-C	-5.71	104.43	112.14
1	8i	97	ARG	O-C-N	-5.71	115.78	122.81
1	8o	24	VAL	CA-C-N	5.71	127.94	120.28
1	8o	24	VAL	C-N-CA	5.71	127.94	120.28
1	8t	193	ASN	CA-C-N	5.71	129.38	120.75
1	8t	193	ASN	C-N-CA	5.71	129.38	120.75
1	8y	72	THR	N-CA-CB	5.71	118.30	110.01
1	8R	34	PRO	O-C-N	-5.71	114.93	122.64
1	95	12	HIS	CB-CG-CD2	-5.71	123.77	131.20
1	9o	102	SER	CA-C-N	5.71	128.21	120.44
1	9o	102	SER	C-N-CA	5.71	128.21	120.44
1	9u	37	ILE	N-CA-CB	-5.71	106.90	110.50
1	9y	5	ASN	CA-CB-CG	5.71	118.31	112.60
1	9B	201	ILE	CA-CB-CG1	5.71	120.11	110.40
1	a1	68	MET	CG-SD-CE	-5.71	88.33	100.90
1	a6	228	ALA	CA-C-N	5.71	130.25	120.71
1	a6	228	ALA	C-N-CA	5.71	130.25	120.71
1	ak	144	MET	N-CA-C	5.71	117.19	111.07
1	an	56	LEU	N-CA-C	5.71	117.19	111.07
1	12	166	ASP	CA-C-N	5.71	127.94	120.28
1	12	166	ASP	C-N-CA	5.71	127.94	120.28
1	aH	12	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	aJ	229	ARG	N-CA-C	5.71	117.67	110.24
1	aX	21	ASN	N-CA-C	5.71	117.97	111.11
1	aY	163	ASP	CA-C-N	5.71	128.25	120.54
1	aY	163	ASP	C-N-CA	5.71	128.25	120.54
1	b3	161	PHE	O-C-N	-5.71	114.57	122.46
1	b8	3	VAL	CA-C-O	5.71	128.28	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bv	54	THR	CA-C-N	5.71	127.87	120.44
1	bv	54	THR	C-N-CA	5.71	127.87	120.44
1	bN	226	HIS	CB-CA-C	-5.71	100.98	109.90
1	bS	148	THR	N-CA-CB	5.71	119.54	110.57
1	bY	227	LYS	CA-C-O	5.71	125.42	119.14
1	c1	197	ASP	O-C-N	-5.71	114.09	122.43
1	cc	58	THR	N-CA-CB	5.71	120.01	110.41
1	ch	73	ILE	N-CA-CB	5.71	119.15	110.58
1	cj	182	LYS	N-CA-C	5.71	117.19	111.07
1	cI	12	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	cJ	132	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
1	cU	116	GLY	O-C-N	5.71	127.67	122.19
1	cV	210	THR	CA-C-N	5.71	128.51	120.28
1	cV	210	THR	C-N-CA	5.71	128.51	120.28
1	d4	54	THR	CA-C-N	5.71	128.51	120.28
1	d4	54	THR	C-N-CA	5.71	128.51	120.28
1	dl	138	LEU	CA-C-N	5.71	128.51	120.28
1	dl	138	LEU	C-N-CA	5.71	128.51	120.28
1	dK	45	GLU	CA-C-O	-5.71	114.46	120.63
1	dQ	191	VAL	O-C-N	-5.71	116.31	121.91
1	dW	221	VAL	CA-C-N	5.71	132.61	121.41
1	dW	221	VAL	C-N-CA	5.71	132.61	121.41
1	dY	215	MET	CG-SD-CE	-5.71	88.33	100.90
1	e5	125	PRO	N-CA-CB	-5.71	97.99	102.28
1	e9	183	ASN	O-C-N	-5.71	116.06	122.12
1	ee	35	GLU	N-CA-C	5.71	117.51	111.28
1	eh	56	LEU	O-C-N	-5.71	116.18	122.07
1	eo	74	ASN	CB-CG-ND2	5.71	124.97	116.40
1	er	224	PRO	N-CA-C	5.71	120.20	111.11
1	ex	11	VAL	CA-C-O	5.71	127.86	120.95
1	eK	16	SER	O-C-N	-5.71	115.36	121.42
1	eN	162	ARG	N-CA-C	5.71	117.51	111.28
1	f0	57	ASN	CA-C-O	5.71	126.54	119.97
1	f6	69	LEU	O-C-N	-5.71	114.99	122.59
1	f7	44	SER	N-CA-CB	5.71	118.76	110.65
1	f8	141	ILE	N-CA-C	-5.71	104.77	111.00
1	f9	81	ASP	N-CA-CB	5.71	119.14	110.28
1	fn	201	ILE	O-C-N	-5.71	115.94	121.83
1	fs	10	MET	CG-SD-CE	-5.71	88.33	100.90
1	fx	150	ILE	CA-C-O	5.71	126.94	119.85
1	fE	157	PRO	CA-C-N	5.71	131.97	122.54
1	fE	157	PRO	C-N-CA	5.71	131.97	122.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	122	PRO	N-CA-CB	5.71	108.89	102.60
1	fX	10	MET	N-CA-C	5.71	118.30	110.24
1	a	12	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	a	40	PHE	N-CA-CB	-5.71	101.11	110.14
1	a	227	LYS	N-CA-C	5.71	119.45	111.74
1	d	195	ASN	CA-C-O	-5.71	114.24	120.87
1	k	29	GLU	N-CA-C	5.71	119.51	112.54
1	t	230	VAL	CA-C-O	5.71	127.36	120.67
1	2	123	PRO	N-CA-C	5.71	124.24	112.47
1	2	163	ASP	CA-C-N	5.71	128.21	120.44
1	2	163	ASP	C-N-CA	5.71	128.21	120.44
1	w	148	THR	CA-CB-OG1	5.71	118.17	109.60
1	N	26	VAL	CB-CA-C	5.71	119.28	111.97
1	gi	197	ASP	O-C-N	5.71	127.95	122.07
1	gm	62	HIS	ND1-CG-CD2	5.71	111.81	106.10
1	gG	52	LEU	N-CA-C	5.71	117.51	111.28
1	h0	226	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	h3	95	GLN	CA-C-N	5.71	130.47	121.56
1	h3	95	GLN	C-N-CA	5.71	130.47	121.56
1	1H	180	GLU	N-CA-C	5.71	118.24	111.33
1	hc	98	GLU	CB-CA-C	5.71	118.59	109.62
1	hx	226	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	hM	74	ASN	N-CA-C	5.71	117.51	111.28
1	i4	161	PHE	CA-C-O	5.71	126.61	120.55
1	i8	169	TYR	N-CA-C	5.71	117.51	111.28
1	1O	141	ILE	CA-C-O	-5.71	115.11	121.17
1	if	51	ASP	CA-C-N	5.71	128.40	120.29
1	if	51	ASP	C-N-CA	5.71	128.40	120.29
1	iu	18	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	iU	17	PRO	O-C-N	-5.71	114.53	122.30
1	1T	17	PRO	CA-C-N	5.71	127.94	120.28
1	1T	17	PRO	C-N-CA	5.71	127.94	120.28
1	1Y	194	ALA	N-CA-C	5.71	117.70	110.33
1	jR	136	LEU	CA-C-O	5.71	126.48	120.42
1	1Z	164	TYR	CA-C-N	5.71	127.76	120.56
1	1Z	164	TYR	C-N-CA	5.71	127.76	120.56
1	kV	95	GLN	O-C-N	-5.71	116.66	123.06
1	kY	201	ILE	CA-C-N	5.71	128.21	120.38
1	kY	201	ILE	C-N-CA	5.71	128.21	120.38
1	l2	183	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	lf	97	ARG	O-C-N	-5.71	115.92	122.89
1	lG	198	CYS	CA-C-N	5.71	128.51	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lG	198	CYS	C-N-CA	5.71	128.51	120.28
1	2f	172	LEU	CB-CA-C	-5.71	99.25	110.11
1	2o	111	LEU	O-C-N	5.71	128.03	122.09
1	2u	44	SER	N-CA-C	5.71	119.56	112.59
1	2G	214	MET	CG-SD-CE	-5.71	88.33	100.90
1	3k	132	ARG	N-CA-C	5.71	117.51	111.28
1	3q	57	ASN	CA-C-O	5.71	126.54	119.97
1	3E	59	VAL	N-CA-C	-5.71	98.82	107.73
1	3M	15	ILE	CA-C-O	5.71	127.34	121.23
1	3M	54	THR	CA-C-N	5.71	127.94	120.28
1	3M	54	THR	C-N-CA	5.71	127.94	120.28
1	3W	184	TRP	CA-C-N	5.71	127.87	120.44
1	3W	184	TRP	C-N-CA	5.71	127.87	120.44
1	4e	115	ILE	CA-C-O	5.71	126.89	120.95
1	4E	212	GLU	CA-C-N	5.71	127.87	120.44
1	4E	212	GLU	C-N-CA	5.71	127.87	120.44
1	50	167	ARG	N-CA-C	5.71	117.59	111.36
1	6c	27	VAL	N-CA-C	5.71	117.00	111.91
1	6d	201	ILE	CA-CB-CG1	5.71	120.11	110.40
1	6e	72	THR	N-CA-CB	5.71	118.61	110.16
1	6A	154	ARG	O-C-N	-5.71	116.41	123.44
1	6B	95	GLN	N-CA-C	5.71	122.97	110.80
1	7j	229	ARG	CA-C-N	5.71	129.80	121.80
1	7j	229	ARG	C-N-CA	5.71	129.80	121.80
1	7m	155	GLN	N-CA-C	5.71	118.61	110.10
1	7F	97	ARG	N-CA-C	5.71	118.51	110.23
1	7W	8	GLY	O-C-N	-5.71	118.44	123.92
1	8A	141	ILE	CA-CB-CG1	5.71	120.11	110.40
1	8E	131	LYS	N-CA-C	5.71	118.28	111.71
1	92	48	THR	CA-C-N	-5.71	113.79	119.56
1	92	48	THR	C-N-CA	-5.71	113.79	119.56
1	98	26	VAL	CA-C-N	5.71	128.29	120.46
1	98	26	VAL	C-N-CA	5.71	128.29	120.46
1	9e	91	ILE	CB-CA-C	5.71	119.64	111.81
1	9B	25	LYS	N-CA-C	5.71	118.28	111.71
1	9U	147	PRO	N-CD-CG	5.71	111.77	103.20
1	ad	167	ARG	CA-C-N	5.71	127.87	120.44
1	ad	167	ARG	C-N-CA	5.71	127.87	120.44
1	at	226	HIS	CA-CB-CG	-5.71	108.09	113.80
1	au	107	THR	OG1-CB-CG2	-5.71	97.87	109.30
1	aA	79	GLU	N-CA-CB	-5.71	101.73	110.01
1	aE	169	TYR	N-CA-C	5.71	117.51	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aH	137	GLY	N-CA-C	5.71	120.72	113.24
1	aI	210	THR	N-CA-C	5.71	118.12	110.35
1	aL	9	GLN	CA-C-N	5.71	130.57	121.66
1	aL	9	GLN	C-N-CA	5.71	130.57	121.66
1	b6	91	ILE	O-C-N	-5.71	116.38	122.61
1	b7	91	ILE	N-CA-CB	5.71	119.86	111.52
1	bv	32	PHE	CA-CB-CG	-5.71	108.09	113.80
1	bZ	171	THR	O-C-N	-5.71	114.80	122.23
1	cf	201	ILE	CB-CA-C	5.71	118.95	111.81
1	1h	103	ASP	CA-C-N	5.71	127.76	120.56
1	1h	103	ASP	C-N-CA	5.71	127.76	120.56
1	d8	216	THR	N-CA-C	5.71	119.95	112.92
1	dA	4	GLN	O-C-N	-5.71	116.56	123.13
1	dE	125	PRO	N-CA-CB	5.71	106.90	102.73
1	dS	178	SER	CB-CA-C	5.71	118.64	109.61
1	eo	176	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	eN	87	HIS	CA-C-O	5.71	125.18	118.90
1	f0	174	ALA	O-C-N	-5.71	115.20	122.34
1	f3	105	ALA	O-C-N	-5.71	115.02	122.39
1	fF	87	HIS	CA-C-N	5.71	128.82	120.71
1	fF	87	HIS	C-N-CA	5.71	128.82	120.71
1	1A	33	SER	O-C-N	-5.71	116.29	121.66
1	g1	134	ILE	CA-C-N	5.71	127.76	120.56
1	g1	134	ILE	C-N-CA	5.71	127.76	120.56
1	g6	54	THR	O-C-N	-5.71	116.06	122.12
1	w	82	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	g8	172	LEU	CA-C-O	5.71	126.47	120.42
1	gt	213	GLU	CA-CB-CG	5.71	125.52	114.10
1	gy	84	HIS	CA-C-N	5.71	126.61	119.98
1	gy	84	HIS	C-N-CA	5.71	126.61	119.98
1	gA	14	ALA	CA-C-O	5.71	127.56	121.16
1	gF	84	HIS	CA-C-N	5.71	126.00	119.83
1	gF	84	HIS	C-N-CA	5.71	126.00	119.83
1	1G	112	GLN	CB-CG-CD	-5.71	102.89	112.60
1	gW	42	ALA	N-CA-CB	-5.71	101.72	110.12
1	gW	170	LYS	CA-C-O	5.71	127.35	121.07
1	gX	41	SER	O-C-N	-5.71	116.19	122.07
1	h4	136	LEU	CA-C-O	5.71	126.80	120.63
1	h6	82	ARG	NE-CZ-NH2	5.71	124.34	119.20
1	hc	124	ILE	O-C-N	-5.71	116.60	121.57
1	hf	59	VAL	CB-CA-C	-5.71	104.05	110.96
1	hp	183	ASN	CB-CA-C	-5.71	101.14	110.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hw	216	THR	N-CA-C	5.71	117.99	111.02
1	hA	153	ILE	CA-CB-CG2	5.71	120.21	110.50
1	hC	128	GLU	CB-CG-CD	5.71	122.31	112.60
1	hC	215	MET	N-CA-CB	5.71	118.94	110.49
1	hE	210	THR	CA-C-O	-5.71	115.59	121.87
1	i5	15	ILE	N-CA-C	5.71	117.08	109.37
1	i7	158	LYS	N-CA-C	-5.71	106.36	113.38
1	i8	5	ASN	O-C-N	-5.71	116.12	122.86
1	1O	67	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	ip	70	LYS	CA-C-N	5.71	128.25	120.54
1	ip	70	LYS	C-N-CA	5.71	128.25	120.54
1	1Q	47	ALA	CB-CA-C	5.71	118.81	109.90
1	iA	101	GLY	CA-C-N	5.71	128.50	120.28
1	iA	101	GLY	C-N-CA	5.71	128.50	120.28
1	iM	212	GLU	CA-C-N	5.71	127.87	120.44
1	iM	212	GLU	C-N-CA	5.71	127.87	120.44
1	iN	111	LEU	O-C-N	-5.71	115.29	122.20
1	iO	161	PHE	CA-C-N	5.71	128.21	120.38
1	iO	161	PHE	C-N-CA	5.71	128.21	120.38
1	iP	3	VAL	O-C-N	-5.71	118.00	122.97
1	j1	207	PRO	CB-CA-C	-5.71	101.52	110.49
1	j5	184	TRP	O-C-N	-5.71	116.19	122.07
1	jh	8	GLY	O-C-N	5.71	127.73	122.19
1	jh	155	GLN	O-C-N	-5.71	116.50	123.30
1	jm	82	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	jp	52	LEU	O-C-N	-5.71	115.64	122.15
1	ju	202	LEU	N-CA-C	5.71	117.51	111.28
1	jx	166	ASP	N-CA-C	5.71	117.51	111.28
1	jG	174	ALA	CA-C-O	5.71	126.53	119.79
1	jJ	212	GLU	CA-C-O	5.71	126.61	120.55
1	jM	161	PHE	N-CA-C	5.71	118.24	111.33
1	jO	49	PRO	CB-CA-C	5.71	120.99	111.56
1	jR	32	PHE	CA-C-N	5.71	129.34	120.60
1	jR	32	PHE	C-N-CA	5.71	129.34	120.60
1	jR	185	MET	CA-C-N	5.71	127.93	120.28
1	jR	185	MET	C-N-CA	5.71	127.93	120.28
1	jU	219	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	jW	195	ASN	CA-C-O	-5.71	114.24	120.69
1	k9	50	GLN	N-CA-CB	5.71	118.35	110.07
1	kd	143	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	kT	121	ASN	OD1-CG-ND2	5.71	128.31	122.60
1	l6	182	LYS	N-CA-C	5.71	117.50	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lj	120	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	lm	1	PRO	CA-C-N	5.71	128.75	120.98
1	lm	1	PRO	C-N-CA	5.71	128.75	120.98
1	lo	217	ALA	O-C-N	-5.71	116.53	123.10
1	lr	16	SER	CA-C-N	5.71	125.83	119.32
1	lr	16	SER	C-N-CA	5.71	125.83	119.32
1	lA	23	TRP	CH2-CZ2-CE2	5.71	124.92	117.50
1	lC	4	GLN	O-C-N	-5.71	116.53	123.10
1	lG	84	HIS	CA-C-O	-5.71	113.26	120.80
1	lJ	146	SER	CA-C-N	-5.71	112.70	119.84
1	lJ	146	SER	C-N-CA	-5.71	112.70	119.84
1	lO	21	ASN	CA-CB-CG	-5.71	106.89	112.60
1	lQ	145	TYR	CA-C-O	5.71	126.47	120.42
1	lR	198	CYS	N-CA-C	-5.71	107.31	114.56
1	2d	53	ASN	CA-C-N	5.71	127.86	120.44
1	2d	53	ASN	C-N-CA	5.71	127.86	120.44
1	2g	76	GLU	CA-C-N	5.71	127.93	120.28
1	2g	76	GLU	C-N-CA	5.71	127.93	120.28
1	2j	127	GLY	O-C-N	-5.71	116.06	122.28
1	2w	191	VAL	CA-CB-CG1	5.71	120.11	110.40
1	2x	131	LYS	CA-C-O	-5.71	114.37	120.42
1	2E	54	THR	CB-CA-C	5.71	119.85	110.88
1	2N	204	ALA	CA-C-N	5.71	131.20	122.29
1	2N	204	ALA	C-N-CA	5.71	131.20	122.29
1	2Q	78	ALA	CA-C-O	-5.71	114.50	120.55
1	2S	177	ALA	CA-C-O	5.71	127.47	121.19
1	31	71	GLU	O-C-N	5.71	128.03	122.09
1	32	90	PRO	N-CA-C	5.71	124.24	112.47
1	3w	195	ASN	CA-C-O	-5.71	114.08	120.25
1	3y	186	THR	N-CA-C	5.71	117.51	111.28
1	3K	38	PRO	CA-C-N	5.71	127.93	120.28
1	3K	38	PRO	C-N-CA	5.71	127.93	120.28
1	3X	222	GLY	O-C-N	5.71	128.37	122.54
1	3Z	80	TRP	CA-C-O	5.71	126.60	120.55
1	46	46	GLY	N-CA-C	-5.71	107.22	115.27
1	48	226	HIS	O-C-N	-5.71	115.91	122.93
1	4h	25	LYS	CA-C-N	5.71	128.28	120.46
1	4h	25	LYS	C-N-CA	5.71	128.28	120.46
1	4N	115	ILE	O-C-N	-5.71	116.33	121.87
1	52	84	HIS	CA-C-N	5.71	125.64	119.76
1	52	84	HIS	C-N-CA	5.71	125.64	119.76
1	5b	129	ILE	CA-C-N	5.71	127.93	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5b	129	ILE	C-N-CA	5.71	127.93	120.28
1	5h	88	ALA	N-CA-C	5.71	117.96	111.11
1	60	8	GLY	N-CA-C	5.71	120.77	112.55
1	62	85	PRO	CA-C-N	5.71	128.85	120.91
1	62	85	PRO	C-N-CA	5.71	128.85	120.91
1	6q	27	VAL	CA-C-N	5.71	127.87	120.44
1	6q	27	VAL	C-N-CA	5.71	127.87	120.44
1	6L	7	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	6L	120	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	6P	204	ALA	CA-C-N	5.71	127.94	120.28
1	6P	204	ALA	C-N-CA	5.71	127.94	120.28
1	6R	164	TYR	N-CA-C	5.71	117.18	111.07
1	75	211	LEU	O-C-N	-5.71	115.24	122.27
1	7s	55	MET	CA-C-O	-5.71	114.36	120.42
1	7v	7	GLN	O-C-N	-5.71	115.62	122.65
1	7Q	219	GLN	N-CA-C	5.71	119.51	112.54
1	89	152	ASP	CA-CB-CG	-5.71	106.89	112.60
1	8g	175	GLU	CA-C-N	5.71	131.34	122.26
1	8g	175	GLU	C-N-CA	5.71	131.34	122.26
1	8q	19	THR	N-CA-CB	5.71	118.25	109.91
1	8v	144	MET	CG-SD-CE	-5.71	88.34	100.90
1	8F	3	VAL	N-CA-C	5.71	116.80	108.58
1	8L	27	VAL	O-C-N	-5.71	116.10	121.87
1	8O	167	ARG	NE-CZ-NH1	-5.71	115.79	121.50
1	8P	63	GLN	N-CA-C	5.71	118.28	111.71
1	8V	203	LYS	CA-C-N	5.71	128.21	120.44
1	8V	203	LYS	C-N-CA	5.71	128.21	120.44
1	8Y	135	ILE	CB-CA-C	5.71	119.28	111.97
1	9M	159	GLU	CA-C-N	5.71	126.98	119.84
1	9M	159	GLU	C-N-CA	5.71	126.98	119.84
1	9P	195	ASN	O-C-N	-5.71	115.55	121.60
1	9V	51	ASP	N-CA-CB	5.71	118.61	110.16
1	a5	24	VAL	N-CA-C	5.71	116.36	110.36
1	a7	175	GLU	CB-CA-C	5.71	119.84	109.62
1	ak	57	ASN	CA-CB-CG	-5.71	106.89	112.60
1	an	210	THR	N-CA-C	5.71	118.51	110.23
1	ar	154	ARG	CA-C-N	5.71	131.04	122.99
1	ar	154	ARG	C-N-CA	5.71	131.04	122.99
1	at	190	LEU	CA-C-O	-5.71	115.62	119.68
1	au	68	MET	N-CA-CB	5.71	118.45	109.94
1	au	208	ALA	N-CA-C	-5.71	105.90	112.92
1	aE	102	SER	N-CA-CB	-5.71	101.43	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14	88	ALA	N-CA-CB	5.71	118.45	109.83
1	14	109	SER	CA-C-O	5.71	126.87	120.70
1	b3	105	ALA	CA-C-O	5.71	126.34	119.43
1	b4	120	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	b8	51	ASP	CA-CB-CG	-5.71	106.89	112.60
1	b8	120	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	b9	74	ASN	N-CA-C	5.71	117.51	111.28
1	bd	190	LEU	CA-C-N	5.71	133.54	122.69
1	bd	190	LEU	C-N-CA	5.71	133.54	122.69
1	bh	16	SER	CB-CA-C	-5.71	100.57	109.08
1	bi	120	HIS	CA-CB-CG	5.71	119.51	113.80
1	br	34	PRO	CA-C-N	5.71	129.83	120.63
1	br	34	PRO	C-N-CA	5.71	129.83	120.63
1	bG	2	ILE	CB-CA-C	5.71	119.93	111.31
1	bK	82	ARG	CG-CD-NE	-5.71	99.44	112.00
1	c6	148	THR	N-CA-CB	5.71	118.40	110.17
1	cb	132	ARG	O-C-N	-5.71	116.06	122.12
1	ck	55	MET	CA-C-N	5.71	128.21	120.44
1	ck	55	MET	C-N-CA	5.71	128.21	120.44
1	cP	120	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	cU	102	SER	N-CA-C	5.71	117.50	111.28
1	cV	84	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	cY	191	VAL	CA-CB-CG1	5.71	120.11	110.40
1	dm	27	VAL	N-CA-C	5.71	116.44	110.62
1	dq	103	ASP	N-CA-CB	5.71	118.35	110.07
1	ds	76	GLU	N-CA-C	5.71	117.59	111.36
1	dt	84	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	du	134	ILE	CA-C-O	-5.71	114.71	121.05
1	e8	40	PHE	CA-CB-CG	-5.71	108.09	113.80
1	e8	66	MET	N-CA-CB	5.71	118.52	110.12
1	ea	18	ARG	N-CA-CB	5.71	118.52	110.12
1	eh	50	GLN	CB-CA-C	5.71	120.27	110.79
1	eo	171	THR	N-CA-CB	5.71	118.52	110.12
1	eK	210	THR	CA-CB-CG2	-5.71	100.79	110.50
1	eM	144	MET	N-CA-C	5.71	117.96	111.11
1	f2	124	ILE	O-C-N	-5.71	116.27	121.41
1	fp	84	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	fB	17	PRO	CB-CA-C	5.71	120.98	111.56
1	fU	141	ILE	CB-CA-C	-5.71	104.57	111.88
1	g1	123	PRO	N-CA-C	5.71	120.17	111.15
1	g7	165	VAL	N-CA-C	5.71	117.13	110.62
1	b	215	MET	O-C-N	-5.71	114.30	122.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	205	LEU	CA-C-N	5.71	130.38	121.64
1	2	205	LEU	C-N-CA	5.71	130.38	121.64
1	G	119	THR	O-C-N	5.71	129.51	122.20
1	M	86	VAL	N-CA-C	5.71	121.22	109.34
1	M	87	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	1F	173	ARG	CA-C-O	5.71	127.31	120.92
1	h2	50	GLN	CA-C-N	5.71	128.19	120.65
1	h2	50	GLN	C-N-CA	5.71	128.19	120.65
1	h7	132	ARG	N-CA-C	5.71	117.50	111.28
1	hc	91	ILE	O-C-N	-5.71	116.58	122.63
1	hl	149	SER	O-C-N	-5.71	115.73	123.10
1	hF	115	ILE	O-C-N	-5.71	115.95	121.83
1	i5	78	ALA	O-C-N	-5.71	115.64	122.15
1	ig	221	VAL	N-CA-C	5.71	116.44	110.62
1	im	2	ILE	CB-CA-C	5.71	117.99	110.91
1	is	92	GLU	N-CA-C	5.71	116.17	109.60
1	it	146	SER	CA-C-N	5.71	125.07	118.85
1	it	146	SER	C-N-CA	5.71	125.07	118.85
1	jo	169	TYR	N-CA-CB	5.71	118.29	110.01
1	lz	146	SER	CA-C-O	-5.71	112.34	120.16
1	2a	230	VAL	CA-C-N	5.71	131.98	121.70
1	2a	230	VAL	C-N-CA	5.71	131.98	121.70
1	lN	54	THR	CA-C-N	5.71	128.25	120.54
1	lN	54	THR	C-N-CA	5.71	128.25	120.54
1	2k	75	GLU	O-C-N	-5.71	116.19	122.07
1	2D	147	PRO	N-CA-CB	-5.71	97.25	103.25
1	2L	142	VAL	CA-C-O	5.71	126.68	120.57
1	2Z	84	HIS	CB-CA-C	5.71	118.12	110.13
1	39	123	PRO	CA-C-N	-5.71	117.79	123.04
1	39	123	PRO	C-N-CA	-5.71	117.79	123.04
1	3y	48	THR	CA-C-N	5.71	125.56	119.28
1	3y	48	THR	C-N-CA	5.71	125.56	119.28
1	3H	184	TRP	CB-CG-CD1	-5.71	118.33	126.90
1	3Z	221	VAL	CA-C-O	5.71	125.34	119.35
1	41	74	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	4a	183	ASN	CA-CB-CG	-5.71	106.89	112.60
1	6d	149	SER	N-CA-C	5.71	118.51	110.23
1	6q	225	GLY	CA-C-N	5.71	130.44	121.08
1	6q	225	GLY	C-N-CA	5.71	130.44	121.08
1	7h	113	GLU	CA-C-O	5.71	126.47	120.42
1	7l	40	PHE	CA-C-N	5.71	127.93	120.28
1	7l	40	PHE	C-N-CA	5.71	127.93	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7u	93	PRO	CA-C-O	5.71	127.85	121.34
1	7C	79	GLU	CA-CB-CG	5.71	125.52	114.10
1	7L	62	HIS	CA-C-N	5.71	128.99	120.31
1	7L	62	HIS	C-N-CA	5.71	128.99	120.31
1	82	132	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	8k	87	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	8q	14	ALA	CA-C-N	5.71	128.37	120.49
1	8q	14	ALA	C-N-CA	5.71	128.37	120.49
1	8N	31	ALA	N-CA-C	5.71	116.45	108.00
1	9q	61	GLY	CA-C-O	-5.71	116.57	122.28
1	a0	44	SER	CA-C-O	5.71	126.42	119.11
1	11	166	ASP	O-C-N	5.71	127.97	122.03
1	am	195	ASN	O-C-N	-5.71	115.42	121.30
1	as	45	GLU	N-CA-CB	5.71	118.45	109.83
1	b3	161	PHE	CA-C-N	5.71	127.93	120.28
1	b3	161	PHE	C-N-CA	5.71	127.93	120.28
1	bt	143	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	bR	80	TRP	CA-CB-CG	5.71	124.45	113.60
1	ce	88	ALA	N-CA-CB	-5.71	101.13	110.21
1	cB	110	THR	CA-CB-CG2	5.71	120.21	110.50
1	d4	207	PRO	N-CA-CB	-5.71	97.77	103.48
1	d7	2	ILE	N-CA-CB	5.71	119.76	112.34
1	1j	88	ALA	CA-C-N	5.71	130.84	121.87
1	1j	88	ALA	C-N-CA	5.71	130.84	121.87
1	dw	18	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	e9	108	THR	N-CA-C	5.71	119.56	112.59
1	eh	165	VAL	N-CA-C	5.71	116.44	110.62
1	eu	68	MET	N-CA-C	5.71	117.50	111.28
1	eH	35	GLU	CA-C-O	5.71	126.40	119.38
1	eI	80	TRP	CA-C-O	5.71	126.80	120.63
1	fk	96	MET	CA-C-N	5.71	129.91	120.94
1	fk	96	MET	C-N-CA	5.71	129.91	120.94
1	g4	48	THR	O-C-N	-5.71	115.14	121.53
1	g7	23	TRP	CB-CG-CD2	5.71	134.79	126.80
1	G	221	VAL	N-CA-CB	5.71	117.51	111.00
1	T	230	VAL	N-CA-C	-5.71	106.20	113.22
1	gl	12	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	gE	219	GLN	N-CA-C	-5.71	106.48	113.50
1	gI	5	ASN	CB-CG-ND2	5.71	124.96	116.40
1	gK	120	HIS	CA-CB-CG	-5.71	108.09	113.80
1	gZ	107	THR	CA-C-O	5.71	126.60	120.55
1	h4	67	GLN	CA-C-N	5.71	127.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h4	67	GLN	C-N-CA	5.71	127.86	120.44
1	h5	150	ILE	N-CA-C	5.71	118.19	111.05
1	h9	133	TRP	CB-CG-CD1	5.71	135.46	126.90
1	hb	180	GLU	N-CA-CB	5.71	118.51	110.12
1	hh	47	ALA	N-CA-C	5.71	118.04	108.96
1	hj	72	THR	N-CA-CB	5.71	118.50	109.82
1	hp	111	LEU	N-CA-C	-5.71	105.15	111.71
1	hp	135	ILE	N-CA-CB	5.71	116.85	110.51
1	hu	94	GLY	CA-C-N	5.71	132.44	121.54
1	hu	94	GLY	C-N-CA	5.71	132.44	121.54
1	hE	2	ILE	N-CA-C	-5.71	100.12	108.11
1	hF	18	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	hF	106	GLY	CA-C-O	5.71	125.45	119.06
1	hP	130	TYR	CA-C-N	5.71	127.93	120.28
1	hP	130	TYR	C-N-CA	5.71	127.93	120.28
1	i0	169	TYR	N-CA-CB	5.71	118.61	110.16
1	1N	193	ASN	CA-CB-CG	5.71	118.31	112.60
1	i6	82	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	i9	126	VAL	N-CA-C	5.71	116.44	110.62
1	i9	193	ASN	CA-CB-CG	5.71	118.31	112.60
1	ia	24	VAL	O-C-N	-5.71	116.33	121.87
1	iG	63	GLN	N-CA-CB	-5.71	101.73	110.01
1	iI	173	ARG	O-C-N	-5.71	116.07	122.12
1	iT	183	ASN	CA-CB-CG	-5.71	106.89	112.60
1	iW	152	ASP	CA-CB-CG	5.71	118.31	112.60
1	jb	91	ILE	CA-C-O	-5.71	114.78	121.80
1	jq	102	SER	O-C-N	-5.71	114.58	122.46
1	jt	189	LEU	CA-C-N	5.71	129.09	121.90
1	jt	189	LEU	C-N-CA	5.71	129.09	121.90
1	ko	161	PHE	N-CA-C	5.71	117.50	111.28
1	kE	175	GLU	CB-CA-C	-5.71	101.55	110.74
1	kK	195	ASN	CA-CB-CG	5.71	118.31	112.60
1	kQ	189	LEU	N-CA-C	5.71	117.50	111.28
1	lw	72	THR	O-C-N	-5.71	116.07	122.12
1	lI	226	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	2b	130	TYR	CA-C-O	5.71	126.60	120.55
1	2o	128	GLU	N-CA-C	5.71	118.24	111.33
1	37	61	GLY	N-CA-C	5.71	119.85	112.54
1	3b	185	MET	CA-C-N	5.71	127.93	120.28
1	3b	185	MET	C-N-CA	5.71	127.93	120.28
1	3c	80	TRP	CA-CB-CG	5.71	124.45	113.60
1	3U	27	VAL	N-CA-C	5.71	116.48	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3V	221	VAL	CA-C-O	5.71	127.47	121.59
1	3Z	20	LEU	N-CA-C	5.71	117.98	111.02
1	44	228	ALA	N-CA-C	5.71	118.29	110.24
1	47	3	VAL	N-CA-C	5.71	116.97	108.46
1	4a	114	GLN	CA-C-N	5.71	127.75	120.56
1	4a	114	GLN	C-N-CA	5.71	127.75	120.56
1	4n	39	MET	N-CA-C	5.71	117.18	111.07
1	4u	64	ALA	O-C-N	-5.71	116.19	122.07
1	4H	71	GLU	CA-C-N	5.71	127.86	120.44
1	4H	71	GLU	C-N-CA	5.71	127.86	120.44
1	4H	72	THR	N-CA-CB	5.71	118.29	110.01
1	4J	139	ASN	CA-C-N	5.71	127.86	120.44
1	4J	139	ASN	C-N-CA	5.71	127.86	120.44
1	4N	170	LYS	O-C-N	-5.71	116.19	122.07
1	5k	205	LEU	CA-C-N	5.71	130.83	121.87
1	5k	205	LEU	C-N-CA	5.71	130.83	121.87
1	5s	11	VAL	CA-CB-CG2	-5.71	100.70	110.40
1	5v	29	GLU	O-C-N	-5.71	115.64	122.15
1	5v	70	LYS	CA-C-N	5.71	128.40	120.29
1	5v	70	LYS	C-N-CA	5.71	128.40	120.29
1	5L	132	ARG	O-C-N	5.71	128.17	122.12
1	5O	53	ASN	CA-C-N	5.71	128.40	120.29
1	5O	53	ASN	C-N-CA	5.71	128.40	120.29
1	5S	112	GLN	N-CA-C	5.71	117.96	111.11
1	6e	14	ALA	N-CA-CB	-5.71	101.58	109.97
1	6v	211	LEU	CA-C-O	5.71	126.60	120.55
1	6H	167	ARG	N-CA-C	5.71	118.27	111.71
1	6J	96	MET	CG-SD-CE	-5.71	88.34	100.90
1	6M	156	GLY	CA-C-N	5.71	125.18	119.24
1	6M	156	GLY	C-N-CA	5.71	125.18	119.24
1	7b	109	SER	O-C-N	-5.71	116.31	123.27
1	7f	48	THR	CA-C-N	5.71	125.83	119.32
1	7f	48	THR	C-N-CA	5.71	125.83	119.32
1	7m	24	VAL	N-CA-C	5.71	116.35	110.36
1	7w	142	VAL	N-CA-CB	5.71	116.61	110.62
1	7A	185	MET	CA-C-O	5.71	126.80	120.63
1	7J	90	PRO	N-CA-C	5.71	124.23	112.47
1	7U	3	VAL	CA-C-O	5.71	127.72	121.67
1	7V	192	GLN	N-CA-C	5.71	117.50	111.28
1	85	24	VAL	CA-C-N	5.71	128.40	120.29
1	85	24	VAL	C-N-CA	5.71	128.40	120.29
1	8c	27	VAL	N-CA-C	5.71	116.44	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	167	ARG	CA-C-O	5.71	126.60	120.55
1	8q	100	ARG	N-CA-C	5.71	118.26	110.55
1	8s	197	ASP	CA-C-O	5.71	126.47	120.42
1	8w	84	HIS	CA-CB-CG	5.71	119.51	113.80
1	8F	186	THR	N-CA-CB	5.71	118.44	110.56
1	8H	18	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	8I	25	LYS	CA-C-O	-5.71	114.50	120.55
1	8I	43	LEU	N-CA-C	-5.71	106.30	113.72
1	90	175	GLU	CA-C-O	5.71	127.47	121.19
1	97	228	ALA	N-CA-C	5.71	118.52	109.96
1	9r	102	SER	N-CA-C	5.71	117.50	111.28
1	9t	167	ARG	CA-C-O	5.71	127.01	120.90
1	9N	41	SER	CB-CA-C	5.71	120.27	110.79
1	a8	163	ASP	N-CA-C	5.71	117.50	111.28
1	aa	12	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	an	155	GLN	N-CA-C	5.71	118.61	110.10
1	ar	15	ILE	CA-C-O	-5.71	115.71	121.59
1	av	61	GLY	O-C-N	-5.71	116.71	122.59
1	aX	199	LYS	CA-C-N	5.71	128.40	120.29
1	aX	199	LYS	C-N-CA	5.71	128.40	120.29
1	17	182	LYS	CA-C-O	5.71	126.60	120.55
1	bx	71	GLU	CB-CA-C	5.71	119.75	110.96
1	bA	78	ALA	CB-CA-C	-5.71	101.15	110.85
1	bK	134	ILE	CA-C-N	5.71	129.49	120.47
1	bK	134	ILE	C-N-CA	5.71	129.49	120.47
1	1a	143	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	bX	209	ALA	CB-CA-C	5.71	119.19	109.72
1	c1	95	GLN	N-CA-C	-5.71	106.30	113.72
1	c8	114	GLN	CB-CG-CD	-5.71	102.90	112.60
1	cc	200	THR	N-CA-CB	5.71	118.29	110.01
1	cg	151	LEU	N-CA-C	5.71	118.24	111.33
1	cj	41	SER	N-CA-CB	5.71	118.44	109.94
1	cv	61	GLY	CA-C-N	5.71	130.27	122.34
1	cv	61	GLY	C-N-CA	5.71	130.27	122.34
1	cx	104	ILE	N-CA-C	5.71	116.44	110.62
1	cV	226	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	cW	132	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	d1	84	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	1i	90	PRO	CA-C-N	5.71	129.73	122.37
1	1i	90	PRO	C-N-CA	5.71	129.73	122.37
1	d5	87	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	d9	112	GLN	O-C-N	5.71	127.95	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	108	THR	N-CA-CB	5.71	118.89	110.56
1	dA	12	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	dJ	120	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	dR	226	HIS	CA-C-O	5.71	126.81	120.82
1	1o	15	ILE	N-CA-C	5.71	116.78	109.30
1	ef	78	ALA	CA-C-N	5.71	128.25	120.54
1	ef	78	ALA	C-N-CA	5.71	128.25	120.54
1	eu	170	LYS	N-CA-C	5.71	117.96	111.11
1	ey	127	GLY	CA-C-O	-5.71	114.61	120.66
1	1s	12	HIS	CB-CG-ND1	5.71	131.26	122.70
1	eN	172	LEU	N-CA-C	5.71	117.96	111.11
1	f0	226	HIS	CA-CB-CG	-5.71	108.09	113.80
1	fl	35	GLU	CA-C-O	5.71	126.40	119.49
1	fu	133	TRP	CA-C-O	5.71	126.60	120.55
1	fA	189	LEU	CA-C-N	5.71	128.25	120.54
1	fA	189	LEU	C-N-CA	5.71	128.25	120.54
1	1y	9	GLN	CA-C-N	5.71	129.81	121.31
1	1y	9	GLN	C-N-CA	5.71	129.81	121.31
1	fP	126	VAL	O-C-N	-5.71	115.95	121.83
1	fQ	166	ASP	CA-CB-CG	5.71	118.31	112.60
1	fR	5	ASN	CA-CB-CG	-5.71	106.89	112.60
1	g1	64	ALA	CA-C-N	5.71	130.39	120.68
1	g1	64	ALA	C-N-CA	5.71	130.39	120.68
1	g6	46	GLY	CA-C-O	5.71	125.63	119.06
1	g6	172	LEU	CA-C-N	5.71	127.93	120.28
1	g6	172	LEU	C-N-CA	5.71	127.93	120.28
1	g6	228	ALA	CA-C-O	5.71	126.11	119.32
1	b	21	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	c	221	VAL	CG1-CB-CG2	-5.71	98.24	110.80
1	H	17	PRO	O-C-N	5.71	129.08	122.17
1	4	51	ASP	O-C-N	-5.71	116.07	122.12
1	O	110	THR	O-C-N	-5.71	116.12	122.86
1	g8	75	GLU	CA-C-O	5.71	126.47	120.42
1	gb	69	LEU	O-C-N	-5.71	116.19	122.07
1	gc	143	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	gh	224	PRO	CA-C-N	5.71	126.44	119.99
1	gh	224	PRO	C-N-CA	5.71	126.44	119.99
1	1C	203	LYS	N-CA-C	-5.71	104.52	112.45
1	1C	218	CYS	O-C-N	-5.71	115.00	122.59
1	gl	7	GLN	CA-C-N	5.71	129.30	120.00
1	gl	7	GLN	C-N-CA	5.71	129.30	120.00
1	1D	112	GLN	CA-C-O	-5.71	114.37	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gw	173	ARG	N-CA-C	5.71	117.17	111.07
1	gH	112	GLN	O-C-N	-5.71	115.54	122.22
1	gI	229	ARG	CA-CB-CG	5.71	125.51	114.10
1	gU	78	ALA	N-CA-CB	5.71	118.51	110.12
1	h4	86	VAL	N-CA-C	5.71	116.16	108.17
1	hf	168	PHE	CB-CG-CD2	5.71	130.40	120.70
1	hm	169	TYR	CA-C-O	-5.71	114.83	120.82
1	ht	12	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	hS	195	ASN	CA-C-O	-5.71	114.98	120.97
1	hY	148	THR	N-CA-C	-5.71	105.65	113.30
1	i3	226	HIS	O-C-N	-5.71	116.13	122.86
1	i9	51	ASP	CA-C-N	5.71	127.93	120.28
1	i9	51	ASP	C-N-CA	5.71	127.93	120.28
1	ia	158	LYS	O-C-N	-5.71	114.39	122.15
1	in	53	ASN	CA-C-O	-5.71	114.50	120.55
1	in	221	VAL	N-CA-C	-5.71	106.20	113.22
1	ir	104	ILE	N-CA-CB	5.71	118.30	110.54
1	it	27	VAL	CA-C-O	5.71	127.22	121.17
1	iz	165	VAL	CA-C-O	5.71	126.89	120.95
1	iP	159	GLU	O-C-N	-5.71	116.61	121.23
1	iT	173	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	j0	14	ALA	N-CA-CB	5.71	118.45	109.83
1	j0	154	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	j1	211	LEU	N-CA-C	5.71	117.50	111.28
1	j6	170	LYS	O-C-N	-5.71	116.19	122.07
1	j7	1	PRO	CA-C-N	5.71	128.84	120.91
1	j7	1	PRO	C-N-CA	5.71	128.84	120.91
1	jk	90	PRO	N-CA-C	5.71	120.18	111.11
1	1W	15	ILE	CA-C-O	5.71	128.88	121.98
1	jH	203	LYS	CA-C-O	5.71	126.40	119.38
1	jJ	178	SER	CA-C-N	5.71	128.25	120.54
1	jJ	178	SER	C-N-CA	5.71	128.25	120.54
1	jW	33	SER	O-C-N	-5.71	113.92	121.34
1	jY	82	ARG	NE-CZ-NH2	-5.71	114.06	119.20
1	jY	209	ALA	N-CA-CB	-5.71	101.65	110.04
1	k4	65	ALA	CB-CA-C	5.71	120.55	110.85
1	ka	138	LEU	CA-C-O	5.71	126.60	120.55
1	kd	19	THR	CA-C-N	5.71	127.93	120.28
1	kd	19	THR	C-N-CA	5.71	127.93	120.28
1	kh	100	ARG	CA-C-O	-5.71	114.92	121.82
1	kh	223	GLY	N-CA-C	5.71	118.85	112.00
1	ky	132	ARG	NE-CZ-NH1	5.71	127.21	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kz	228	ALA	N-CA-C	5.71	118.60	110.10
1	kE	110	THR	O-C-N	-5.71	116.13	122.86
1	ls	206	GLY	O-C-N	-5.71	116.06	121.77
1	lz	84	HIS	CB-CG-CD2	-5.71	123.78	131.20
1	lD	42	ALA	CA-C-O	5.71	126.60	120.55
1	lG	205	LEU	O-C-N	-5.71	114.97	122.39
1	2a	171	THR	CA-C-N	5.71	128.39	120.29
1	2a	171	THR	C-N-CA	5.71	128.39	120.29
1	lN	164	TYR	N-CA-CB	5.71	118.34	110.07
1	2f	175	GLU	CA-C-N	5.71	129.66	121.50
1	2f	175	GLU	C-N-CA	5.71	129.66	121.50
1	2m	82	ARG	N-CA-C	5.71	117.50	111.28
1	2u	113	GLU	CA-C-O	5.71	126.47	120.42
1	2H	120	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	2H	122	PRO	N-CD-CG	5.71	110.65	103.80
1	2S	169	TYR	N-CA-C	5.71	117.58	111.36
1	30	112	GLN	CA-C-O	5.71	126.60	120.55
1	34	62	HIS	CA-C-N	5.71	128.39	120.29
1	34	62	HIS	C-N-CA	5.71	128.39	120.29
1	3d	153	ILE	CA-C-O	5.71	125.56	119.91
1	3h	134	ILE	N-CA-C	5.71	115.90	110.42
1	3l	117	TRP	CA-C-O	5.71	126.60	120.55
1	3t	136	LEU	CA-C-O	5.71	126.39	119.31
1	3w	100	ARG	O-C-N	-5.71	115.04	122.97
1	3y	201	ILE	N-CA-C	5.71	115.90	110.42
1	3z	167	ARG	N-CA-C	5.71	120.73	111.37
1	3F	37	ILE	N-CA-C	5.71	119.20	112.35
1	3T	1	PRO	CA-C-N	5.71	130.12	122.93
1	3T	1	PRO	C-N-CA	5.71	130.12	122.93
1	44	143	ARG	NE-CZ-NH2	5.71	124.34	119.20
1	48	57	ASN	CA-CB-CG	-5.71	106.89	112.60
1	4a	58	THR	N-CA-CB	5.71	119.42	110.46
1	4l	58	THR	O-C-N	-5.71	115.54	122.22
1	4n	9	GLN	CA-C-N	5.71	130.23	122.07
1	4n	9	GLN	C-N-CA	5.71	130.23	122.07
1	4p	107	THR	N-CA-CB	5.71	118.26	109.98
1	4z	212	GLU	N-CA-C	-5.71	105.81	112.89
1	4J	68	MET	O-C-N	-5.71	114.81	122.23
1	4L	204	ALA	N-CA-CB	5.71	118.49	109.82
1	4P	97	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	4T	160	PRO	N-CA-C	5.71	120.19	111.34
1	5c	93	PRO	CB-CA-C	-5.71	107.08	111.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5e	152	ASP	CA-C-O	5.71	126.42	119.11
1	5r	218	CYS	CA-C-O	5.71	128.67	120.51
1	5y	99	PRO	N-CA-C	5.71	120.18	111.11
1	5A	97	ARG	CA-C-N	5.71	131.78	120.94
1	5A	97	ARG	C-N-CA	5.71	131.78	120.94
1	5D	27	VAL	N-CA-C	5.71	116.35	110.36
1	5T	116	GLY	CA-C-N	5.71	128.20	120.38
1	5T	116	GLY	C-N-CA	5.71	128.20	120.38
1	6b	143	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	79	132	ARG	CA-C-N	5.71	127.86	120.44
1	79	132	ARG	C-N-CA	5.71	127.86	120.44
1	7b	17	PRO	CA-C-O	5.71	126.99	119.00
1	7h	184	TRP	CB-CG-CD2	5.71	134.79	126.80
1	7k	65	ALA	CA-C-N	5.71	128.18	120.65
1	7k	65	ALA	C-N-CA	5.71	128.18	120.65
1	7o	183	ASN	CA-CB-CG	-5.71	106.89	112.60
1	7r	5	ASN	CA-C-O	5.71	127.33	121.23
1	7w	162	ARG	CA-C-O	5.71	126.60	120.55
1	7H	106	GLY	O-C-N	-5.71	115.28	122.70
1	87	77	ALA	N-CA-C	5.71	117.58	111.36
1	8a	68	MET	CG-SD-CE	-5.71	88.35	100.90
1	8o	4	GLN	CA-C-O	5.71	127.16	120.43
1	8J	188	THR	OG1-CB-CG2	-5.71	97.89	109.30
1	8M	212	GLU	N-CA-C	5.71	117.96	111.11
1	8R	198	CYS	N-CA-C	5.71	117.18	111.07
1	91	171	THR	CB-CA-C	-5.71	101.15	110.85
1	9k	26	VAL	CA-C-N	5.71	127.75	120.56
1	9k	26	VAL	C-N-CA	5.71	127.75	120.56
1	9r	112	GLN	N-CA-C	5.71	118.24	111.33
1	9u	187	GLU	CA-C-O	5.71	126.33	119.59
1	9z	37	ILE	O-C-N	-5.71	114.59	121.10
1	9F	12	HIS	CA-CB-CG	5.71	119.51	113.80
1	9S	146	SER	CA-C-N	5.71	126.97	119.84
1	9S	146	SER	C-N-CA	5.71	126.97	119.84
1	a5	179	GLN	CB-CG-CD	5.71	122.30	112.60
1	a9	120	HIS	CB-CG-CD2	-5.71	123.78	131.20
1	aa	87	HIS	N-CA-C	5.71	118.63	110.24
1	ak	27	VAL	N-CA-C	5.71	116.48	110.72
1	12	186	THR	CB-CA-C	5.71	120.55	110.85
1	aI	187	GLU	CA-C-O	5.71	125.66	119.15
1	aV	214	MET	O-C-N	-5.71	115.25	122.27
1	b3	215	MET	CA-C-N	5.71	128.39	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b3	215	MET	C-N-CA	5.71	128.39	120.29
1	bb	165	VAL	CA-C-N	5.71	128.20	120.44
1	bb	165	VAL	C-N-CA	5.71	128.20	120.44
1	be	194	ALA	CA-C-N	5.71	128.59	120.49
1	be	194	ALA	C-N-CA	5.71	128.59	120.49
1	bf	95	GLN	CB-CA-C	5.71	119.27	109.51
1	bj	154	ARG	N-CA-C	5.71	116.08	108.38
1	bn	175	GLU	N-CA-C	5.71	118.11	110.35
1	bC	129	ILE	CB-CG1-CD1	-5.71	101.82	113.80
1	bK	188	THR	N-CA-C	5.71	117.30	111.14
1	bP	154	ARG	CA-C-N	5.71	129.21	120.82
1	bP	154	ARG	C-N-CA	5.71	129.21	120.82
1	bW	157	PRO	CA-C-N	5.71	131.79	121.92
1	bW	157	PRO	C-N-CA	5.71	131.79	121.92
1	c3	12	HIS	CE1-NE2-CD2	-5.71	103.29	109.00
1	c7	77	ALA	N-CA-C	5.71	117.18	111.07
1	cf	8	GLY	O-C-N	-5.71	115.28	122.70
1	cr	70	LYS	CA-C-N	5.71	127.93	120.28
1	cr	70	LYS	C-N-CA	5.71	127.93	120.28
1	cu	70	LYS	CA-C-N	5.71	128.50	120.28
1	cu	70	LYS	C-N-CA	5.71	128.50	120.28
1	cz	85	PRO	CA-C-N	5.71	128.28	120.46
1	cz	85	PRO	C-N-CA	5.71	128.28	120.46
1	cY	126	VAL	CA-C-N	5.71	127.47	120.22
1	cY	126	VAL	C-N-CA	5.71	127.47	120.22
1	db	104	ILE	O-C-N	-5.71	116.32	121.91
1	dc	73	ILE	N-CA-CB	5.71	117.23	110.55
1	dk	68	MET	N-CA-C	5.71	117.50	111.28
1	ds	92	GLU	O-C-N	-5.71	117.39	121.84
1	dA	167	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	dI	18	ARG	NE-CZ-NH1	5.71	127.21	121.50
1	e0	16	SER	CB-CA-C	-5.71	100.58	109.08
1	eh	55	MET	N-CA-C	5.71	117.50	111.28
1	el	156	GLY	CA-C-N	5.71	125.81	119.87
1	el	156	GLY	C-N-CA	5.71	125.81	119.87
1	em	206	GLY	N-CA-C	5.71	123.98	112.34
1	eq	193	ASN	OD1-CG-ND2	-5.71	116.89	122.60
1	ey	46	GLY	CA-C-N	5.71	130.24	122.19
1	ey	46	GLY	C-N-CA	5.71	130.24	122.19
1	ey	215	MET	CA-C-N	5.71	128.98	120.31
1	ey	215	MET	C-N-CA	5.71	128.98	120.31
1	1s	207	PRO	CA-C-O	-5.71	110.27	118.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	33	SER	CA-C-O	-5.71	115.25	120.50
1	f8	155	GLN	O-C-N	-5.71	116.36	123.04
1	fi	16	SER	N-CA-C	5.71	118.17	110.29
1	fq	41	SER	CB-CA-C	-5.71	101.15	110.85
1	fs	37	ILE	CB-CA-C	-5.71	108.30	114.35
1	1z	196	PRO	CA-C-O	-5.71	110.95	119.34
1	fT	191	VAL	CB-CA-C	-5.71	104.34	112.22
1	1A	96	MET	CA-C-O	5.71	128.67	120.51
1	g4	111	LEU	CA-C-O	-5.71	114.79	121.07
1	g6	134	ILE	CA-C-N	5.71	128.52	120.42
1	g6	134	ILE	C-N-CA	5.71	128.52	120.42
1	e	23	TRP	CA-C-N	5.71	127.75	120.56
1	e	23	TRP	C-N-CA	5.71	127.75	120.56
1	k	212	GLU	CA-C-N	5.71	127.93	120.28
1	k	212	GLU	C-N-CA	5.71	127.93	120.28
1	y	21	ASN	CA-C-O	5.71	127.01	120.90
1	z	131	LYS	CA-CB-CG	5.71	125.51	114.10
1	D	101	GLY	CA-C-N	5.71	127.86	120.44
1	D	101	GLY	C-N-CA	5.71	127.86	120.44
1	I	115	ILE	O-C-N	-5.71	115.35	121.80
1	R	170	LYS	CA-C-N	5.71	128.39	120.29
1	R	170	LYS	C-N-CA	5.71	128.39	120.29
1	1C	4	GLN	CA-C-O	5.71	127.33	121.23
1	gm	119	THR	CA-C-N	5.71	129.90	120.94
1	gm	119	THR	C-N-CA	5.71	129.90	120.94
1	gW	180	GLU	N-CA-C	-5.71	104.97	111.07
1	h2	206	GLY	O-C-N	-5.71	116.06	121.77
1	1I	87	HIS	CE1-NE2-CD2	-5.71	103.30	109.00
1	hh	9	GLN	CA-C-N	5.71	129.81	121.31
1	hh	9	GLN	C-N-CA	5.71	129.81	121.31
1	ht	131	LYS	CA-CB-CG	5.71	125.51	114.10
1	1K	54	THR	CA-C-N	5.71	128.24	120.54
1	1K	54	THR	C-N-CA	5.71	128.24	120.54
1	i7	12	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	ir	176	GLN	CA-C-N	5.71	129.21	120.82
1	ir	176	GLN	C-N-CA	5.71	129.21	120.82
1	iP	219	GLN	CA-C-O	-5.71	114.20	120.36
1	jA	97	ARG	NE-CZ-NH2	5.71	124.33	119.20
1	jD	15	ILE	CA-CB-CG1	5.71	120.10	110.40
1	jJ	62	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	jU	67	GLN	OE1-CD-NE2	-5.71	116.89	122.60
1	l2	17	PRO	CA-C-N	5.71	127.92	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l2	17	PRO	C-N-CA	5.71	127.92	120.28
1	lc	153	ILE	CA-CB-CG2	5.71	120.20	110.50
1	li	204	ALA	CB-CA-C	5.71	121.13	109.55
1	lo	201	ILE	N-CA-CB	5.71	117.22	110.55
1	lr	5	ASN	CA-C-O	5.71	128.56	121.89
1	lG	198	CYS	CA-C-O	-5.71	114.37	120.42
1	lJ	141	ILE	N-CA-C	5.71	115.90	110.42
1	2g	98	GLU	O-C-N	-5.71	115.25	121.53
1	2E	129	ILE	N-CA-C	5.71	115.83	110.30
1	2P	59	VAL	O-C-N	-5.71	116.46	122.68
1	3L	143	ARG	NE-CZ-NH1	5.71	127.20	121.50
1	3N	54	THR	CA-C-N	5.71	127.92	120.28
1	3N	54	THR	C-N-CA	5.71	127.92	120.28
1	3X	221	VAL	CB-CA-C	5.71	118.57	111.15
1	4A	209	ALA	O-C-N	-5.71	116.58	123.03
1	4J	90	PRO	N-CA-C	5.71	120.56	111.26
1	5b	173	ARG	N-CA-C	5.71	117.50	111.28
1	5d	185	MET	N-CA-C	5.71	118.44	111.82
1	5h	65	ALA	CA-C-N	5.71	128.24	120.54
1	5h	65	ALA	C-N-CA	5.71	128.24	120.54
1	5n	161	PHE	O-C-N	-5.71	116.07	122.12
1	5X	214	MET	CA-C-O	5.71	126.60	120.55
1	61	178	SER	CA-C-N	5.71	127.92	120.28
1	61	178	SER	C-N-CA	5.71	127.92	120.28
1	7f	139	ASN	CB-CA-C	-5.71	101.92	110.88
1	7j	113	GLU	CA-C-N	5.71	127.92	120.28
1	7j	113	GLU	C-N-CA	5.71	127.92	120.28
1	7l	216	THR	N-CA-CB	5.71	118.28	110.01
1	7o	178	SER	CA-C-N	5.71	128.24	120.54
1	7o	178	SER	C-N-CA	5.71	128.24	120.54
1	7t	98	GLU	O-C-N	-5.71	115.58	121.28
1	8N	22	ALA	N-CA-C	5.71	117.17	111.07
1	9z	157	PRO	N-CA-CB	-5.71	97.26	103.25
1	9P	214	MET	N-CA-C	5.71	117.50	111.28
1	a4	161	PHE	O-C-N	-5.71	116.07	122.12
1	10	62	HIS	ND1-CE1-NE2	5.71	114.11	108.40
1	aZ	32	PHE	CB-CA-C	-5.71	101.53	110.94
1	b0	70	LYS	CA-C-N	5.71	127.92	120.28
1	b0	70	LYS	C-N-CA	5.71	127.92	120.28
1	bk	171	THR	CA-C-N	5.71	127.92	120.28
1	bk	171	THR	C-N-CA	5.71	127.92	120.28
1	bl	87	HIS	CE1-NE2-CD2	-5.71	103.30	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	br	82	ARG	N-CA-C	5.71	117.17	111.07
1	19	28	GLU	O-C-N	-5.71	116.07	122.12
1	bN	84	HIS	CB-CG-CD2	-5.71	123.78	131.20
1	c0	129	ILE	CA-C-N	5.71	128.24	120.54
1	c0	129	ILE	C-N-CA	5.71	128.24	120.54
1	ca	84	HIS	CE1-NE2-CD2	-5.71	103.30	109.00
1	ch	201	ILE	CA-C-N	5.71	127.92	120.28
1	ch	201	ILE	C-N-CA	5.71	127.92	120.28
1	cM	84	HIS	CA-C-N	5.71	125.99	119.83
1	cM	84	HIS	C-N-CA	5.71	125.99	119.83
1	dn	107	THR	O-C-N	-5.71	116.07	122.12
1	dq	20	LEU	CA-C-N	5.71	128.39	120.29
1	dq	20	LEU	C-N-CA	5.71	128.39	120.29
1	e3	148	THR	N-CA-C	-5.71	100.41	109.59
1	et	108	THR	N-CA-CB	5.71	118.75	110.88
1	ex	177	ALA	N-CA-C	5.71	122.95	110.80
1	eQ	50	GLN	CA-C-O	-5.71	114.50	120.55
1	eQ	226	HIS	CA-CB-CG	5.71	119.50	113.80
1	fk	76	GLU	CA-C-N	5.71	127.92	120.28
1	fk	76	GLU	C-N-CA	5.71	127.92	120.28
1	fl	128	GLU	CB-CA-C	-5.71	101.92	110.88
1	ft	72	THR	CA-CB-CG2	5.71	120.20	110.50
1	fP	203	LYS	CA-C-N	5.71	127.86	120.44
1	fP	203	LYS	C-N-CA	5.71	127.86	120.44
1	h	6	LEU	N-CA-C	5.71	122.95	110.80
1	t	155	GLN	O-C-N	-5.71	116.56	123.29
1	O	85	PRO	CA-C-N	-5.71	115.46	122.93
1	O	85	PRO	C-N-CA	-5.71	115.46	122.93
1	gi	103	ASP	CA-C-N	5.70	128.27	120.46
1	gi	103	ASP	C-N-CA	5.70	128.27	120.46
1	gi	193	ASN	CA-C-N	5.70	128.81	120.71
1	gi	193	ASN	C-N-CA	5.70	128.81	120.71
1	gj	202	LEU	CA-C-N	5.70	128.98	120.31
1	gj	202	LEU	C-N-CA	5.70	128.98	120.31
1	gp	114	GLN	CA-C-N	5.70	128.52	120.42
1	gp	114	GLN	C-N-CA	5.70	128.52	120.42
1	gC	159	GLU	O-C-N	-5.70	115.58	121.28
1	gE	146	SER	CA-C-O	-5.70	112.34	120.16
1	gE	174	ALA	CA-C-O	5.70	126.38	119.31
1	gL	226	HIS	CA-C-O	5.70	126.24	120.88
1	gO	97	ARG	CA-C-O	-5.70	115.12	121.51
1	gR	162	ARG	NH1-CZ-NH2	5.70	126.71	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1G	124	ILE	N-CA-CB	5.70	117.23	111.36
1	gZ	95	GLN	CA-C-N	5.70	129.45	121.24
1	gZ	95	GLN	C-N-CA	5.70	129.45	121.24
1	h9	187	GLU	N-CA-C	5.70	117.30	111.14
1	ha	27	VAL	CA-C-N	5.70	127.92	120.28
1	ha	27	VAL	C-N-CA	5.70	127.92	120.28
1	hh	126	VAL	O-C-N	-5.70	116.24	121.94
1	hm	7	GLN	O-C-N	-5.70	115.50	122.34
1	hw	84	HIS	CA-C-N	5.70	126.97	119.84
1	hw	84	HIS	C-N-CA	5.70	126.97	119.84
1	i2	77	ALA	CA-C-N	5.70	127.92	120.28
1	i2	77	ALA	C-N-CA	5.70	127.92	120.28
1	i3	98	GLU	N-CA-C	5.70	116.88	109.64
1	im	105	ALA	O-C-N	-5.70	114.59	122.46
1	iL	226	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	iT	143	ARG	O-C-N	-5.70	115.65	122.15
1	iY	98	GLU	O-C-N	-5.70	115.58	121.28
1	j2	130	TYR	CA-C-N	5.70	128.39	120.29
1	j2	130	TYR	C-N-CA	5.70	128.39	120.29
1	jn	88	ALA	CA-C-O	5.70	127.11	120.49
1	jv	101	GLY	CA-C-O	5.70	127.16	121.00
1	jv	124	ILE	CA-C-O	-5.70	115.50	119.38
1	jH	78	ALA	CA-C-N	5.70	127.92	120.28
1	jH	78	ALA	C-N-CA	5.70	127.92	120.28
1	k1	59	VAL	O-C-N	-5.70	116.56	122.66
1	k4	83	LEU	N-CA-C	5.70	117.50	111.28
1	20	52	LEU	CA-C-N	5.70	127.92	120.28
1	20	52	LEU	C-N-CA	5.70	127.92	120.28
1	23	82	ARG	CA-C-O	5.70	126.60	120.55
1	kG	38	PRO	CA-C-O	-5.70	110.96	119.34
1	kI	201	ILE	N-CA-C	5.70	116.44	110.62
1	kI	221	VAL	O-C-N	-5.70	117.10	123.26
1	kJ	24	VAL	N-CA-C	5.70	117.12	110.62
1	kN	64	ALA	CA-C-N	5.70	128.98	120.31
1	kN	64	ALA	C-N-CA	5.70	128.98	120.31
1	kN	76	GLU	N-CA-C	5.70	117.95	111.11
1	l4	6	LEU	N-CA-CB	5.70	118.38	110.17
1	l4	120	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	lp	122	PRO	N-CA-CB	5.70	108.88	102.60
1	lA	20	LEU	CA-C-O	-5.70	114.50	120.55
1	lH	154	ARG	CD-NE-CZ	-5.70	116.42	124.40
1	lN	230	VAL	CA-C-O	5.70	126.53	120.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lQ	59	VAL	O-C-N	-5.70	116.89	122.93
1	2l	162	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	2p	187	GLU	CA-C-N	5.70	128.98	120.31
1	2p	187	GLU	C-N-CA	5.70	128.98	120.31
1	2w	78	ALA	O-C-N	5.70	127.94	122.07
1	2M	12	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	2Z	23	TRP	N-CA-C	5.70	117.17	111.07
1	2Z	97	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	33	5	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	3a	171	THR	CB-CA-C	-5.70	101.15	110.85
1	3n	113	GLU	N-CA-C	5.70	117.58	111.36
1	3x	191	VAL	N-CA-C	5.70	115.89	110.53
1	3A	92	GLU	CA-C-N	5.70	126.97	119.84
1	3A	92	GLU	C-N-CA	5.70	126.97	119.84
1	3D	97	ARG	O-C-N	-5.70	115.80	122.81
1	3K	51	ASP	CA-C-O	-5.70	114.37	120.42
1	3L	178	SER	N-CA-C	5.70	118.11	110.35
1	3N	12	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	3O	12	HIS	N-CA-C	5.70	118.52	109.96
1	3Z	23	TRP	CB-CG-CD1	5.70	135.46	126.90
1	46	146	SER	N-CA-C	-5.70	102.88	110.07
1	48	80	TRP	CA-C-N	5.70	127.92	120.28
1	48	80	TRP	C-N-CA	5.70	127.92	120.28
1	4a	48	THR	N-CA-CB	5.70	118.26	110.05
1	4i	3	VAL	O-C-N	-5.70	117.10	123.26
1	4j	130	TYR	CB-CG-CD1	5.70	129.35	120.80
1	4G	27	VAL	N-CA-C	5.70	116.44	110.62
1	4G	57	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	4K	87	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	4L	162	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	4R	84	HIS	CG-CD2-NE2	5.70	112.90	107.20
1	4W	107	THR	N-CA-CB	5.70	118.60	110.16
1	4W	118	MET	N-CA-C	5.70	118.27	111.71
1	5i	27	VAL	CA-C-O	5.70	126.63	120.47
1	5i	34	PRO	CA-C-N	5.70	128.49	120.28
1	5i	34	PRO	C-N-CA	5.70	128.49	120.28
1	5A	148	THR	O-C-N	-5.70	115.74	123.15
1	5J	219	GLN	CA-C-O	5.70	127.18	120.96
1	5K	85	PRO	N-CA-C	5.70	120.18	111.11
1	5M	127	GLY	CA-C-N	5.70	127.92	120.28
1	5M	127	GLY	C-N-CA	5.70	127.92	120.28
1	61	21	ASN	CA-C-N	5.70	127.86	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	61	21	ASN	C-N-CA	5.70	127.86	120.44
1	65	145	TYR	O-C-N	-5.70	115.00	122.59
1	69	141	ILE	N-CA-C	-5.70	104.94	110.42
1	6x	100	ARG	O-C-N	-5.70	116.29	122.79
1	6E	136	LEU	CA-C-O	5.70	126.60	120.55
1	6H	211	LEU	N-CA-CB	-5.70	101.50	110.06
1	6O	224	PRO	CA-C-O	-5.70	115.10	121.32
1	6P	134	ILE	N-CA-C	5.70	115.89	110.42
1	6U	21	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	70	18	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	79	111	LEU	O-C-N	-5.70	116.08	122.12
1	7b	122	PRO	CA-C-N	5.70	125.66	119.78
1	7b	122	PRO	C-N-CA	5.70	125.66	119.78
1	7e	92	GLU	CA-C-N	5.70	126.15	119.99
1	7e	92	GLU	C-N-CA	5.70	126.15	119.99
1	7t	50	GLN	O-C-N	-5.70	116.08	122.12
1	7E	132	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	7H	20	LEU	CA-C-N	5.70	127.92	120.28
1	7H	20	LEU	C-N-CA	5.70	127.92	120.28
1	7T	216	THR	N-CA-C	5.70	117.50	111.28
1	8i	100	ARG	CB-CA-C	-5.70	100.58	110.45
1	8s	13	GLN	O-C-N	-5.70	116.31	123.27
1	8w	104	ILE	O-C-N	5.70	127.40	121.87
1	8y	167	ARG	CA-C-O	-5.70	114.83	120.70
1	8z	74	ASN	O-C-N	-5.70	116.08	122.12
1	8B	15	ILE	N-CA-C	5.70	121.20	109.34
1	8K	178	SER	CA-C-N	5.70	128.49	120.28
1	8K	178	SER	C-N-CA	5.70	128.49	120.28
1	8W	227	LYS	O-C-N	-5.70	116.89	122.99
1	9j	82	ARG	CA-CB-CG	-5.70	102.69	114.10
1	9F	83	LEU	O-C-N	-5.70	116.19	122.07
1	9T	55	MET	CG-SD-CE	-5.70	88.35	100.90
1	10	121	ASN	N-CA-CB	5.70	120.52	110.37
1	af	134	ILE	CA-C-N	5.70	128.57	120.53
1	af	134	ILE	C-N-CA	5.70	128.57	120.53
1	ar	73	ILE	CA-C-N	5.70	127.85	120.44
1	ar	73	ILE	C-N-CA	5.70	127.85	120.44
1	as	133	TRP	CB-CG-CD2	-5.70	118.81	126.80
1	aw	64	ALA	CA-C-O	5.70	126.47	120.42
1	aB	60	GLY	CA-C-N	5.70	129.70	121.54
1	aB	60	GLY	C-N-CA	5.70	129.70	121.54
1	aV	112	GLN	OE1-CD-NE2	-5.70	116.90	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aW	11	VAL	CA-C-N	5.70	128.81	120.71
1	aW	11	VAL	C-N-CA	5.70	128.81	120.71
1	bc	158	LYS	O-C-N	5.70	129.18	122.34
1	bk	143	ARG	CA-C-O	5.70	126.47	120.42
1	bn	140	LYS	CA-C-N	5.70	128.27	120.46
1	bn	140	LYS	C-N-CA	5.70	128.27	120.46
1	18	3	VAL	O-C-N	5.70	127.35	122.16
1	18	229	ARG	O-C-N	-5.70	116.56	123.29
1	by	183	ASN	CA-CB-CG	5.70	118.30	112.60
1	bA	222	GLY	O-C-N	-5.70	115.28	122.70
1	1a	189	LEU	N-CA-C	5.70	117.17	111.07
1	cg	82	ARG	N-CA-C	5.70	117.50	111.28
1	cl	132	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	cy	123	PRO	CA-C-N	5.70	126.48	122.60
1	cy	123	PRO	C-N-CA	5.70	126.48	122.60
1	cH	141	ILE	O-C-N	-5.70	116.34	121.87
1	cT	70	LYS	CA-C-N	5.70	128.39	120.29
1	cT	70	LYS	C-N-CA	5.70	128.39	120.29
1	cT	165	VAL	O-C-N	-5.70	114.01	121.82
1	1h	105	ALA	N-CA-CB	-5.70	100.92	110.39
1	cX	143	ARG	N-CA-C	5.70	117.58	111.36
1	cZ	169	TYR	N-CA-C	5.70	117.58	111.36
1	d1	107	THR	CA-C-O	5.70	126.79	120.80
1	dc	131	LYS	CA-C-N	5.70	127.85	120.44
1	dc	131	LYS	C-N-CA	5.70	127.85	120.44
1	dg	22	ALA	CA-C-O	5.70	126.60	120.55
1	dg	118	MET	N-CA-C	-5.70	106.36	113.38
1	dq	27	VAL	N-CA-CB	5.70	117.87	110.57
1	dt	177	ALA	O-C-N	-5.70	115.93	122.89
1	dR	20	LEU	CA-C-N	5.70	128.39	120.29
1	dR	20	LEU	C-N-CA	5.70	128.39	120.29
1	1n	93	PRO	CA-C-O	5.70	125.94	118.98
1	dT	69	LEU	N-CA-C	5.70	117.58	111.36
1	dU	150	ILE	N-CA-C	-5.70	104.06	112.04
1	e7	56	LEU	N-CA-C	5.70	117.17	111.07
1	ek	190	LEU	CA-C-O	5.70	126.79	120.63
1	en	18	ARG	CA-C-N	5.70	128.19	120.38
1	en	18	ARG	C-N-CA	5.70	128.19	120.38
1	ey	89	GLY	O-C-N	-5.70	116.07	121.77
1	eC	229	ARG	CA-C-O	-5.70	115.50	121.55
1	eG	148	THR	CA-CB-OG1	5.70	118.15	109.60
1	eH	124	ILE	CA-C-O	-5.70	112.31	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	53	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	f8	23	TRP	N-CA-CB	-5.70	101.80	110.07
1	fi	115	ILE	CA-CB-CG1	-5.70	100.70	110.40
1	fy	19	THR	N-CA-C	-5.70	105.04	112.23
1	1y	31	ALA	N-CA-C	5.70	116.44	108.00
1	fQ	148	THR	CA-CB-CG2	-5.70	100.80	110.50
1	fV	106	GLY	CA-C-N	5.70	128.20	120.44
1	fV	106	GLY	C-N-CA	5.70	128.20	120.44
1	fX	96	MET	O-C-N	-5.70	116.52	123.19
1	g3	92	GLU	N-CA-C	5.70	118.28	110.01
1	o	52	LEU	CA-C-O	5.70	126.60	120.55
1	D	52	LEU	CA-C-N	5.70	127.92	120.28
1	D	52	LEU	C-N-CA	5.70	127.92	120.28
1	H	223	GLY	CA-C-N	5.70	126.97	119.84
1	H	223	GLY	C-N-CA	5.70	126.97	119.84
1	T	6	LEU	O-C-N	-5.70	115.00	122.59
1	U	217	ALA	CA-C-N	5.70	130.79	122.41
1	U	217	ALA	C-N-CA	5.70	130.79	122.41
1	W	46	GLY	O-C-N	-5.70	116.25	122.41
1	W	132	ARG	N-CA-C	-5.70	105.04	112.23
1	ge	105	ALA	N-CA-C	5.70	119.85	113.01
1	gp	174	ALA	N-CA-C	5.70	117.30	111.14
1	1E	23	TRP	O-C-N	-5.70	116.16	122.09
1	hp	105	ALA	CA-C-N	5.70	131.27	122.20
1	hp	105	ALA	C-N-CA	5.70	131.27	122.20
1	hT	12	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	i2	85	PRO	CA-C-N	5.70	128.21	120.63
1	i2	85	PRO	C-N-CA	5.70	128.21	120.63
1	i4	6	LEU	CA-C-N	5.70	128.94	120.90
1	i4	6	LEU	C-N-CA	5.70	128.94	120.90
1	i8	82	ARG	CA-C-N	5.70	128.39	120.29
1	i8	82	ARG	C-N-CA	5.70	128.39	120.29
1	ix	51	ASP	N-CA-CB	5.70	118.50	110.12
1	jd	153	ILE	O-C-N	-5.70	116.85	122.67
1	jO	64	ALA	N-CA-CB	5.70	118.28	110.01
1	1Y	32	PHE	CA-CB-CG	-5.70	108.10	113.80
1	jU	226	HIS	CA-CB-CG	-5.70	108.10	113.80
1	jW	182	LYS	N-CA-C	5.70	117.50	111.28
1	k5	196	PRO	CA-N-CD	-5.70	104.02	112.00
1	k9	146	SER	O-C-N	-5.70	115.04	121.43
1	21	193	ASN	CA-CB-CG	-5.70	106.90	112.60
1	21	215	MET	N-CA-CB	5.70	119.03	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	22	9	GLN	CA-C-N	5.70	130.46	122.36
1	22	9	GLN	C-N-CA	5.70	130.46	122.36
1	ky	91	ILE	O-C-N	-5.70	116.44	122.83
1	kA	114	GLN	CA-C-N	5.70	128.52	120.42
1	kA	114	GLN	C-N-CA	5.70	128.52	120.42
1	kB	6	LEU	CA-C-O	5.70	127.42	121.15
1	l3	82	ARG	N-CA-C	5.70	117.50	111.28
1	le	98	GLU	CA-C-O	-5.70	115.10	119.32
1	lz	17	PRO	CA-N-CD	-5.70	104.02	112.00
1	2h	159	GLU	CA-C-N	5.70	125.46	119.76
1	2h	159	GLU	C-N-CA	5.70	125.46	119.76
1	3n	161	PHE	CA-CB-CG	5.70	119.50	113.80
1	3K	150	ILE	O-C-N	-5.70	114.56	122.31
1	4c	149	SER	CA-C-O	-5.70	115.34	121.56
1	4s	150	ILE	CA-CB-CG2	5.70	120.19	110.50
1	4w	32	PHE	O-C-N	-5.70	114.00	122.67
1	4E	37	ILE	N-CA-C	5.70	119.19	112.35
1	4S	90	PRO	CB-CA-C	-5.70	104.10	111.46
1	53	198	CYS	CA-C-O	5.70	126.52	119.79
1	5f	227	LYS	CA-C-O	5.70	127.42	121.15
1	5k	117	TRP	CG-CD2-CE3	5.70	139.60	133.90
1	60	12	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	63	99	PRO	N-CA-C	5.70	120.55	111.26
1	67	12	HIS	CG-CD2-NE2	5.70	112.90	107.20
1	6c	178	SER	CA-C-N	5.70	127.92	120.28
1	6c	178	SER	C-N-CA	5.70	127.92	120.28
1	6j	118	MET	CG-SD-CE	-5.70	88.36	100.90
1	6R	108	THR	CA-CB-OG1	5.70	118.15	109.60
1	6Z	227	LYS	N-CA-C	5.70	118.85	110.30
1	78	63	GLN	CG-CD-OE1	5.70	132.20	120.80
1	7m	94	GLY	CA-C-N	5.70	132.43	121.54
1	7m	94	GLY	C-N-CA	5.70	132.43	121.54
1	7p	185	MET	CG-SD-CE	-5.70	88.36	100.90
1	81	71	GLU	O-C-N	-5.70	116.20	122.07
1	87	58	THR	CA-CB-CG2	5.70	120.19	110.50
1	8G	170	LYS	N-CA-C	5.70	117.50	111.28
1	91	154	ARG	CD-NE-CZ	5.70	132.38	124.40
1	9h	5	ASN	CA-CB-CG	5.70	118.30	112.60
1	an	74	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	b5	194	ALA	O-C-N	-5.70	116.29	122.79
1	br	36	VAL	O-C-N	-5.70	116.34	121.87
1	bv	91	ILE	CA-C-O	5.70	127.91	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bw	18	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	19	12	HIS	CB-CA-C	5.70	119.40	109.65
1	dg	100	ARG	O-C-N	-5.70	116.01	122.68
1	dG	230	VAL	N-CA-C	5.70	117.38	109.80
1	dI	69	LEU	O-C-N	-5.70	116.20	122.07
1	e7	219	GLN	CA-C-N	5.70	127.52	120.34
1	e7	219	GLN	C-N-CA	5.70	127.52	120.34
1	eb	62	HIS	CA-C-N	5.70	128.98	120.31
1	eb	62	HIS	C-N-CA	5.70	128.98	120.31
1	eS	175	GLU	O-C-N	-5.70	115.80	122.81
1	fj	97	ARG	N-CA-CB	5.70	118.42	110.04
1	fm	230	VAL	N-CA-C	5.70	121.20	109.34
1	fv	84	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	fD	206	GLY	CA-C-N	5.70	126.97	119.84
1	fD	206	GLY	C-N-CA	5.70	126.97	119.84
1	fH	224	PRO	O-C-N	-5.70	114.94	122.64
1	fP	212	GLU	O-C-N	-5.70	116.08	122.12
1	fV	103	ASP	O-C-N	-5.70	115.27	122.17
1	g0	144	MET	O-C-N	-5.70	116.20	122.07
1	g4	74	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	I	62	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	L	154	ARG	N-CA-CB	5.70	121.34	111.13
1	R	183	ASN	N-CA-C	5.70	117.17	111.07
1	gf	229	ARG	O-C-N	-5.70	116.27	123.17
1	1C	211	LEU	CA-C-N	5.70	127.92	120.28
1	1C	211	LEU	C-N-CA	5.70	127.92	120.28
1	gq	140	LYS	O-C-N	-5.70	116.16	122.09
1	gv	194	ALA	CA-C-O	-5.70	115.08	121.81
1	gR	210	THR	CA-CB-OG1	5.70	118.15	109.60
1	gW	154	ARG	CA-C-O	5.70	127.22	120.66
1	gZ	116	GLY	O-C-N	5.70	127.65	122.18
1	h9	91	ILE	CA-C-N	5.70	127.22	120.09
1	h9	91	ILE	C-N-CA	5.70	127.22	120.09
1	hm	73	ILE	N-CA-CB	5.70	116.84	110.51
1	hv	212	GLU	N-CA-C	5.70	117.95	111.11
1	hy	228	ALA	N-CA-C	5.70	117.65	110.24
1	1K	195	ASN	CA-C-O	-5.70	114.49	120.70
1	hT	206	GLY	N-CA-C	5.70	123.97	112.34
1	hU	224	PRO	CA-C-N	5.70	127.31	120.13
1	hU	224	PRO	C-N-CA	5.70	127.31	120.13
1	hW	92	GLU	CA-C-N	5.70	126.97	119.84
1	hW	92	GLU	C-N-CA	5.70	126.97	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i7	101	GLY	N-CA-C	5.70	119.78	112.83
1	im	106	GLY	CA-C-N	5.70	128.39	120.29
1	im	106	GLY	C-N-CA	5.70	128.39	120.29
1	iz	167	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	iG	107	THR	O-C-N	-5.70	115.65	122.15
1	jb	37	ILE	N-CA-C	5.70	120.88	112.61
1	jd	33	SER	N-CA-C	-5.70	99.19	108.82
1	jd	211	LEU	CA-C-N	5.70	127.85	120.44
1	jd	211	LEU	C-N-CA	5.70	127.85	120.44
1	jm	144	MET	CA-C-O	-5.70	114.83	120.82
1	jS	78	ALA	N-CA-C	5.70	118.23	111.33
1	k7	168	PHE	O-C-N	-5.70	116.20	122.07
1	k8	195	ASN	CA-C-O	-5.70	114.49	120.02
1	kh	62	HIS	CA-CB-CG	-5.70	108.10	113.80
1	kl	91	ILE	CA-C-O	-5.70	116.17	120.96
1	kv	82	ARG	CA-C-O	-5.70	114.83	120.82
1	kA	80	TRP	CA-CB-CG	5.70	124.43	113.60
1	kI	138	LEU	CA-C-N	5.70	127.85	120.44
1	kI	138	LEU	C-N-CA	5.70	127.85	120.44
1	kY	69	LEU	CA-C-O	5.70	126.81	120.82
1	l5	92	GLU	N-CA-C	5.70	117.25	110.07
1	lm	154	ARG	NE-CZ-NH2	5.70	124.33	119.20
1	ln	82	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	lq	64	ALA	N-CA-C	5.70	117.49	111.28
1	28	43	LEU	CA-C-O	5.70	126.38	119.31
1	lx	192	GLN	N-CA-C	5.70	117.57	111.36
1	lD	71	GLU	CA-C-N	5.70	128.19	120.44
1	lD	71	GLU	C-N-CA	5.70	128.19	120.44
1	lI	74	ASN	N-CA-CB	5.70	118.50	110.12
1	2g	27	VAL	O-C-N	-5.70	116.34	121.87
1	2l	23	TRP	CB-CG-CD1	-5.70	118.35	126.90
1	2r	25	LYS	CB-CG-CD	5.70	124.41	111.30
1	2u	176	GLN	CB-CA-C	5.70	119.57	109.65
1	2E	165	VAL	O-C-N	-5.70	114.25	122.12
1	2G	70	LYS	CA-C-N	5.70	127.92	120.28
1	2G	70	LYS	C-N-CA	5.70	127.92	120.28
1	2M	134	ILE	N-CA-C	5.70	116.35	110.36
1	2P	8	GLY	O-C-N	-5.70	116.17	122.61
1	2S	12	HIS	N-CA-CB	5.70	121.36	111.39
1	33	6	LEU	N-CA-CB	5.70	118.34	110.07
1	3b	115	ILE	N-CA-C	5.70	116.43	110.62
1	3d	179	GLN	OE1-CD-NE2	-5.70	116.90	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3e	6	LEU	CA-C-O	5.70	126.46	120.42
1	3j	124	ILE	CA-C-O	-5.70	114.15	119.62
1	3P	193	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	45	114	GLN	CA-C-N	5.70	128.51	120.42
1	45	114	GLN	C-N-CA	5.70	128.51	120.42
1	47	47	ALA	CA-C-O	5.70	127.55	121.16
1	48	150	ILE	CA-C-N	5.70	132.47	121.18
1	48	150	ILE	C-N-CA	5.70	132.47	121.18
1	49	11	VAL	CA-C-O	5.70	127.06	120.67
1	4b	111	LEU	N-CA-C	5.70	118.23	111.33
1	4f	121	ASN	CB-CA-C	5.70	116.35	109.85
1	4h	39	MET	CA-C-N	5.70	127.92	120.28
1	4h	39	MET	C-N-CA	5.70	127.92	120.28
1	4L	227	LYS	O-C-N	-5.70	116.52	123.30
1	4M	139	ASN	N-CA-C	5.70	119.33	112.38
1	4T	135	ILE	N-CA-CB	-5.70	103.88	110.55
1	4T	213	GLU	N-CA-C	5.70	117.49	111.28
1	4W	143	ARG	CD-NE-CZ	-5.70	116.42	124.40
1	5a	39	MET	CA-C-O	5.70	126.59	120.55
1	5c	51	ASP	CA-C-N	5.70	127.92	120.28
1	5c	51	ASP	C-N-CA	5.70	127.92	120.28
1	5e	111	LEU	CA-C-N	5.70	127.85	120.44
1	5e	111	LEU	C-N-CA	5.70	127.85	120.44
1	5r	150	ILE	O-C-N	-5.70	116.34	121.87
1	5v	198	CYS	O-C-N	-5.70	116.08	122.12
1	5y	223	GLY	CA-C-N	5.70	126.97	119.84
1	5y	223	GLY	C-N-CA	5.70	126.97	119.84
1	5F	211	LEU	CA-C-O	5.70	126.54	120.10
1	5W	70	LYS	N-CA-C	5.70	117.49	111.28
1	6a	197	ASP	CA-C-N	5.70	127.92	120.28
1	6a	197	ASP	C-N-CA	5.70	127.92	120.28
1	6c	25	LYS	CA-C-N	5.70	128.27	120.46
1	6c	25	LYS	C-N-CA	5.70	128.27	120.46
1	6p	4	GLN	N-CA-C	5.70	119.50	111.52
1	6p	84	HIS	CA-C-O	-5.70	114.50	120.09
1	6X	183	ASN	OD1-CG-ND2	5.70	128.30	122.60
1	72	27	VAL	N-CA-C	5.70	118.17	111.05
1	7p	100	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	7p	164	TYR	N-CA-C	5.70	117.49	111.28
1	86	55	MET	O-C-N	-5.70	116.20	122.07
1	8d	26	VAL	CA-C-N	5.70	127.86	120.56
1	8d	26	VAL	C-N-CA	5.70	127.86	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8t	180	GLU	CB-CG-CD	-5.70	102.91	112.60
1	8x	215	MET	O-C-N	-5.70	114.59	122.46
1	8F	162	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	8R	48	THR	CA-C-O	-5.70	114.50	120.88
1	9a	39	MET	CG-SD-CE	-5.70	88.36	100.90
1	9h	175	GLU	CB-CG-CD	5.70	122.29	112.60
1	9y	173	ARG	O-C-N	-5.70	116.08	122.12
1	9I	120	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	9M	23	TRP	N-CA-C	5.70	117.17	111.07
1	9S	83	LEU	N-CA-C	5.70	119.41	112.23
1	9U	228	ALA	N-CA-C	5.70	118.39	108.76
1	a9	203	LYS	N-CA-CB	-5.70	101.51	110.06
1	ai	137	GLY	O-C-N	-5.70	115.78	122.34
1	aw	184	TRP	CA-C-O	-5.70	114.47	120.63
1	aI	144	MET	CG-SD-CE	-5.70	88.36	100.90
1	aP	92	GLU	N-CA-CB	-5.70	102.34	110.04
1	aV	23	TRP	CD2-CE2-CZ2	-5.70	116.70	122.40
1	aZ	133	TRP	CA-C-N	5.70	128.27	120.46
1	aZ	133	TRP	C-N-CA	5.70	128.27	120.46
1	b8	172	LEU	N-CA-C	5.70	119.33	112.38
1	bf	163	ASP	N-CA-C	5.70	117.17	111.07
1	bu	202	LEU	N-CA-C	5.70	117.57	111.36
1	bA	74	ASN	N-CA-C	5.70	117.49	111.28
1	bE	55	MET	CG-SD-CE	-5.70	88.36	100.90
1	cg	55	MET	N-CA-C	5.70	117.17	111.07
1	ch	120	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	cs	97	ARG	N-CA-CB	-5.70	101.96	110.17
1	cv	34	PRO	N-CD-CG	5.70	111.75	103.20
1	cz	40	PHE	CA-C-N	5.70	127.92	120.28
1	cz	40	PHE	C-N-CA	5.70	127.92	120.28
1	cH	66	MET	N-CA-CB	5.70	118.60	110.16
1	cI	218	CYS	N-CA-C	5.70	122.94	110.80
1	1h	127	GLY	N-CA-C	5.70	119.78	112.83
1	d3	179	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	d5	133	TRP	N-CA-C	-5.70	105.15	111.36
1	d9	125	PRO	O-C-N	5.70	130.34	122.64
1	dc	104	ILE	N-CA-C	-5.70	104.96	110.72
1	dd	53	ASN	CA-CB-CG	-5.70	106.90	112.60
1	do	168	PHE	CA-C-N	5.70	128.38	120.29
1	do	168	PHE	C-N-CA	5.70	128.38	120.29
1	dE	102	SER	N-CA-C	5.70	117.49	111.28
1	dI	50	GLN	O-C-N	-5.70	116.08	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dK	7	GLN	CA-C-O	5.70	125.65	119.15
1	dR	220	GLY	N-CA-C	-5.70	107.32	115.64
1	e9	226	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	ed	216	THR	CA-CB-OG1	5.70	118.15	109.60
1	eg	27	VAL	O-C-N	-5.70	116.11	121.87
1	et	226	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	eN	51	ASP	CA-CB-CG	-5.70	106.90	112.60
1	1t	26	VAL	CB-CA-C	5.70	120.09	112.22
1	eS	145	TYR	CA-C-O	5.70	125.65	119.15
1	eS	224	PRO	CA-C-N	5.70	127.27	120.14
1	eS	224	PRO	C-N-CA	5.70	127.27	120.14
1	f7	149	SER	CA-C-O	5.70	126.28	120.24
1	fe	173	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
1	fJ	12	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	fU	31	ALA	N-CA-CB	-5.70	101.51	110.06
1	fU	56	LEU	N-CA-C	5.70	117.50	111.28
1	g5	72	THR	O-C-N	-5.70	115.65	122.15
1	j	198	CYS	CA-C-N	5.70	127.92	120.28
1	j	198	CYS	C-N-CA	5.70	127.92	120.28
1	m	165	VAL	CB-CA-C	-5.70	104.44	112.14
1	m	212	GLU	N-CA-C	5.70	118.43	111.82
1	o	13	GLN	CB-CG-CD	5.70	122.29	112.60
1	u	58	THR	CB-CA-C	-5.70	102.45	111.17
1	F	67	GLN	N-CA-C	5.70	119.05	111.75
1	4	75	GLU	CA-C-N	5.70	127.92	120.28
1	4	75	GLU	C-N-CA	5.70	127.92	120.28
1	T	121	ASN	CA-C-O	-5.70	114.08	119.55
1	U	87	HIS	CG-CD2-NE2	5.70	112.90	107.20
1	6	164	TYR	O-C-N	-5.70	116.20	122.07
1	gt	187	GLU	N-CA-CB	5.70	118.45	110.07
1	gP	56	LEU	O-C-N	-5.70	115.65	122.15
1	1G	213	GLU	CA-C-N	5.70	127.92	120.28
1	1G	213	GLU	C-N-CA	5.70	127.92	120.28
1	gZ	53	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	hc	78	ALA	CA-C-N	5.70	128.23	120.54
1	hc	78	ALA	C-N-CA	5.70	128.23	120.54
1	hs	144	MET	O-C-N	-5.70	115.65	122.15
1	hD	146	SER	CA-C-N	5.70	126.03	119.93
1	hD	146	SER	C-N-CA	5.70	126.03	119.93
1	hE	64	ALA	N-CA-C	5.70	117.49	111.28
1	hE	74	ASN	CA-C-O	-5.70	114.51	120.55
1	hH	74	ASN	CA-C-N	5.70	127.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hH	74	ASN	C-N-CA	5.70	127.85	120.44
1	hW	167	ARG	CA-C-N	5.70	127.85	120.44
1	hW	167	ARG	C-N-CA	5.70	127.85	120.44
1	i0	52	LEU	CA-C-N	5.70	127.92	120.28
1	i0	52	LEU	C-N-CA	5.70	127.92	120.28
1	i7	62	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	ib	55	MET	N-CA-C	5.70	117.95	111.11
1	il	42	ALA	CA-C-N	5.70	128.97	120.31
1	il	42	ALA	C-N-CA	5.70	128.97	120.31
1	il	159	GLU	CA-C-N	5.70	125.65	119.78
1	il	159	GLU	C-N-CA	5.70	125.65	119.78
1	ip	154	ARG	CA-C-N	5.70	132.33	122.64
1	ip	154	ARG	C-N-CA	5.70	132.33	122.64
1	iv	98	GLU	N-CA-C	5.70	117.88	109.50
1	ix	120	HIS	O-C-N	-5.70	115.96	122.68
1	iB	12	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	iB	211	LEU	N-CA-C	5.70	117.49	111.28
1	iD	98	GLU	CA-C-N	5.70	126.02	119.92
1	iD	98	GLU	C-N-CA	5.70	126.02	119.92
1	iD	102	SER	O-C-N	-5.70	116.08	122.12
1	iJ	102	SER	N-CA-C	5.70	117.49	111.28
1	iU	77	ALA	N-CA-C	5.70	117.57	111.36
1	j0	28	GLU	CB-CA-C	5.70	120.26	110.86
1	jf	204	ALA	O-C-N	-5.70	114.80	122.43
1	ji	60	GLY	CA-C-N	5.70	126.87	121.46
1	ji	60	GLY	C-N-CA	5.70	126.87	121.46
1	1W	65	ALA	O-C-N	5.70	128.16	122.12
1	jz	215	MET	O-C-N	-5.70	115.01	122.59
1	jW	72	THR	O-C-N	-5.70	115.65	122.15
1	jW	133	TRP	CA-C-N	5.70	128.27	120.46
1	jW	133	TRP	C-N-CA	5.70	128.27	120.46
1	jX	83	LEU	N-CA-C	5.70	117.49	111.28
1	k0	202	LEU	CA-C-N	5.70	128.38	120.29
1	k0	202	LEU	C-N-CA	5.70	128.38	120.29
1	k7	84	HIS	CA-C-O	-5.70	114.51	120.09
1	k8	168	PHE	CB-CA-C	-5.70	101.33	110.79
1	kp	185	MET	N-CA-C	5.70	117.49	111.28
1	kx	16	SER	N-CA-CB	5.70	119.30	110.01
1	kN	68	MET	CA-C-N	5.70	127.85	120.44
1	kN	68	MET	C-N-CA	5.70	127.85	120.44
1	kP	41	SER	N-CA-CB	5.70	118.59	110.16
1	kU	14	ALA	N-CA-CB	-5.70	100.86	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l3	19	THR	CA-C-O	5.70	126.46	120.42
1	l4	229	ARG	CA-C-O	-5.70	114.92	121.19
1	l5	180	GLU	O-C-N	-5.70	116.20	122.07
1	lI	80	TRP	CA-C-N	5.70	128.49	120.28
1	lI	80	TRP	C-N-CA	5.70	128.49	120.28
1	lQ	228	ALA	CB-CA-C	-5.70	100.26	109.72
1	2n	163	ASP	CA-C-N	5.70	127.85	120.44
1	2n	163	ASP	C-N-CA	5.70	127.85	120.44
1	2K	84	HIS	CA-C-N	5.70	126.96	119.84
1	2K	84	HIS	C-N-CA	5.70	126.96	119.84
1	2U	132	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	2U	160	PRO	N-CA-CB	5.70	108.26	103.25
1	3a	2	ILE	CB-CA-C	-5.70	104.13	111.20
1	3p	176	GLN	O-C-N	-5.70	115.01	122.59
1	3r	166	ASP	CA-C-N	5.70	127.85	120.44
1	3r	166	ASP	C-N-CA	5.70	127.85	120.44
1	3s	176	GLN	CB-CA-C	5.70	119.42	110.19
1	3D	194	ALA	CA-C-N	5.70	128.40	120.65
1	3D	194	ALA	C-N-CA	5.70	128.40	120.65
1	3M	173	ARG	N-CA-C	5.70	118.23	111.33
1	3R	129	ILE	CA-C-N	5.70	127.92	120.28
1	3R	129	ILE	C-N-CA	5.70	127.92	120.28
1	3Y	41	SER	CA-C-N	5.70	127.92	120.28
1	3Y	41	SER	C-N-CA	5.70	127.92	120.28
1	44	185	MET	CG-SD-CE	-5.70	88.36	100.90
1	47	132	ARG	N-CA-C	5.70	118.22	111.33
1	4e	185	MET	CA-C-O	5.70	126.54	120.10
1	4f	120	HIS	CA-CB-CG	-5.70	108.10	113.80
1	4j	31	ALA	O-C-N	5.70	129.69	122.57
1	4j	96	MET	CG-SD-CE	-5.70	88.36	100.90
1	4k	4	GLN	O-C-N	-5.70	116.72	123.22
1	4m	47	ALA	N-CA-C	5.70	118.59	110.10
1	4q	184	TRP	CA-C-N	5.70	127.85	120.44
1	4q	184	TRP	C-N-CA	5.70	127.85	120.44
1	4z	75	GLU	CA-C-O	5.70	126.59	120.55
1	4G	85	PRO	O-C-N	5.70	130.08	123.01
1	4N	157	PRO	CB-CA-C	5.70	120.43	112.11
1	4S	9	GLN	CA-C-O	-5.70	115.35	121.56
1	4S	18	ARG	NE-CZ-NH2	5.70	124.33	119.20
1	53	188	THR	N-CA-CB	5.70	119.02	110.53
1	59	79	GLU	O-C-N	-5.70	116.08	122.12
1	5h	61	GLY	CA-C-N	5.70	130.50	122.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	61	GLY	C-N-CA	5.70	130.50	122.46
1	5h	133	TRP	O-C-N	5.70	128.16	122.12
1	5j	142	VAL	CA-CB-CG1	5.70	120.09	110.40
1	5m	156	GLY	CA-C-N	5.70	125.23	119.19
1	5m	156	GLY	C-N-CA	5.70	125.23	119.19
1	5s	46	GLY	N-CA-C	-5.70	107.09	115.30
1	5u	104	ILE	N-CA-C	-5.70	104.96	110.72
1	5A	88	ALA	CA-C-N	5.70	128.65	121.36
1	5A	88	ALA	C-N-CA	5.70	128.65	121.36
1	5J	112	GLN	N-CA-C	5.70	118.26	111.71
1	5O	190	LEU	CA-C-N	5.70	127.86	120.56
1	5O	190	LEU	C-N-CA	5.70	127.86	120.56
1	5R	19	THR	N-CA-CB	5.70	118.33	110.07
1	5V	125	PRO	CA-C-N	5.70	128.27	120.46
1	5V	125	PRO	C-N-CA	5.70	128.27	120.46
1	5V	214	MET	N-CA-C	5.70	117.49	111.28
1	66	10	MET	CA-CB-CG	-5.70	102.70	114.10
1	6t	214	MET	CG-SD-CE	-5.70	88.36	100.90
1	6y	25	LYS	N-CA-C	5.70	118.26	111.71
1	6A	159	GLU	O-C-N	-5.70	115.38	121.42
1	6T	208	ALA	O-C-N	5.70	128.16	122.12
1	6X	176	GLN	CB-CG-CD	5.70	122.29	112.60
1	7f	102	SER	CA-C-N	5.70	128.38	120.29
1	7f	102	SER	C-N-CA	5.70	128.38	120.29
1	7g	142	VAL	O-C-N	-5.70	116.33	121.91
1	7A	36	VAL	CA-C-O	5.70	126.88	120.95
1	7L	210	THR	CA-CB-OG1	5.70	118.15	109.60
1	83	211	LEU	CD1-CG-CD2	-5.70	98.26	110.80
1	86	84	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	8u	130	TYR	CA-C-N	5.70	127.92	120.28
1	8u	130	TYR	C-N-CA	5.70	127.92	120.28
1	8v	185	MET	N-CA-C	5.70	117.95	111.11
1	8P	21	ASN	CA-CB-CG	-5.70	106.90	112.60
1	8S	165	VAL	CA-C-O	-5.70	114.32	120.47
1	99	134	ILE	CA-C-N	5.70	127.95	120.60
1	99	134	ILE	C-N-CA	5.70	127.95	120.60
1	9o	132	ARG	N-CA-C	5.70	117.49	111.28
1	9w	99	PRO	N-CA-C	5.70	119.81	111.03
1	9z	159	GLU	O-C-N	-5.70	114.40	121.64
1	a7	39	MET	N-CA-C	5.70	117.49	111.28
1	a9	168	PHE	CA-C-O	-5.70	114.84	120.82
1	10	158	LYS	O-C-N	-5.70	115.47	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ah	91	ILE	CA-C-N	5.70	127.21	120.09
1	ah	91	ILE	C-N-CA	5.70	127.21	120.09
1	11	59	VAL	N-CA-C	5.70	116.36	108.84
1	av	158	LYS	N-CA-C	-5.70	105.00	112.41
1	aw	36	VAL	CA-C-O	5.70	126.88	120.95
1	aB	197	ASP	CA-C-N	5.70	130.32	120.58
1	aB	197	ASP	C-N-CA	5.70	130.32	120.58
1	aP	6	LEU	CA-C-O	-5.70	114.88	121.15
1	aR	79	GLU	CA-C-N	5.70	127.92	120.28
1	aR	79	GLU	C-N-CA	5.70	127.92	120.28
1	aR	208	ALA	O-C-N	-5.70	116.16	122.09
1	aS	201	ILE	CA-CB-CG2	5.70	120.19	110.50
1	bf	204	ALA	CA-C-N	5.70	128.49	120.28
1	bf	204	ALA	C-N-CA	5.70	128.49	120.28
1	bg	56	LEU	CB-CA-C	-5.70	101.89	110.90
1	bt	43	LEU	N-CA-CB	5.70	118.50	110.12
1	bt	229	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	bw	160	PRO	CA-C-N	5.70	128.19	120.38
1	bw	160	PRO	C-N-CA	5.70	128.19	120.38
1	bA	120	HIS	O-C-N	-5.70	115.01	122.59
1	bR	103	ASP	CA-CB-CG	5.70	118.30	112.60
1	bU	39	MET	CA-C-N	5.70	128.17	120.65
1	bU	39	MET	C-N-CA	5.70	128.17	120.65
1	bX	100	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
1	ch	74	ASN	N-CA-CB	5.70	118.27	110.01
1	cv	139	ASN	O-C-N	-5.70	116.08	122.12
1	cW	181	VAL	CA-C-O	-5.70	115.13	121.17
1	cZ	188	THR	O-C-N	-5.70	116.20	121.79
1	d5	52	LEU	CA-C-O	-5.70	114.80	120.90
1	d6	78	ALA	O-C-N	-5.70	116.20	122.07
1	dc	134	ILE	CA-C-N	5.70	127.74	120.56
1	dc	134	ILE	C-N-CA	5.70	127.74	120.56
1	dG	24	VAL	CA-C-O	5.70	126.89	120.85
1	dJ	126	VAL	O-C-N	-5.70	116.24	121.94
1	dW	66	MET	O-C-N	-5.70	116.20	122.07
1	dZ	105	ALA	O-C-N	-5.70	115.26	122.27
1	e2	135	ILE	CA-CB-CG2	5.70	120.19	110.50
1	e4	23	TRP	N-CA-C	5.70	117.57	111.36
1	1p	228	ALA	N-CA-CB	-5.70	101.67	110.56
1	em	203	LYS	CA-C-O	-5.70	114.51	120.55
1	es	120	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	eH	216	THR	N-CA-CB	5.70	119.69	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	104	ILE	CA-C-O	5.70	127.21	121.17
1	fg	186	THR	CA-C-N	5.70	127.85	120.44
1	fg	186	THR	C-N-CA	5.70	127.85	120.44
1	fw	54	THR	O-C-N	-5.70	116.20	122.07
1	fy	155	GLN	CA-C-N	5.70	130.81	121.87
1	fy	155	GLN	C-N-CA	5.70	130.81	121.87
1	fI	49	PRO	O-C-N	5.70	128.79	122.24
1	fS	136	LEU	O-C-N	-5.70	116.20	122.07
1	fV	61	GLY	CA-C-N	5.70	130.22	122.07
1	fV	61	GLY	C-N-CA	5.70	130.22	122.07
1	g4	177	ALA	O-C-N	-5.70	115.78	122.96
1	0	101	GLY	CA-C-N	5.70	128.97	120.31
1	0	101	GLY	C-N-CA	5.70	128.97	120.31
1	x	124	ILE	N-CA-CB	5.70	118.98	111.40
1	I	12	HIS	O-C-N	-5.70	117.10	123.48
1	J	38	PRO	N-CD-CG	5.70	111.75	103.20
1	S	112	GLN	CA-C-O	5.70	126.59	120.55
1	g8	146	SER	N-CA-CB	5.70	119.73	110.05
1	g9	131	LYS	CA-C-N	5.70	132.42	121.54
1	g9	131	LYS	C-N-CA	5.70	132.42	121.54
1	ga	118	MET	N-CA-C	5.70	117.49	111.28
1	gj	73	ILE	O-C-N	-5.70	116.33	121.91
1	gv	114	GLN	N-CA-C	5.70	117.17	111.07
1	h4	33	SER	CB-CA-C	-5.70	101.14	109.97
1	hu	120	HIS	CA-C-O	5.70	127.46	121.19
1	i0	62	HIS	ND1-CG-CD2	5.70	111.80	106.10
1	i9	14	ALA	N-CA-CB	-5.70	101.60	109.97
1	ib	156	GLY	CA-C-N	5.70	125.23	119.19
1	ib	156	GLY	C-N-CA	5.70	125.23	119.19
1	in	150	ILE	CA-C-O	5.70	126.92	119.85
1	it	169	TYR	CA-C-N	5.70	128.23	120.54
1	it	169	TYR	C-N-CA	5.70	128.23	120.54
1	iJ	72	THR	CA-C-N	5.70	127.95	120.60
1	iJ	72	THR	C-N-CA	5.70	127.95	120.60
1	iP	28	GLU	N-CA-C	5.70	119.49	112.54
1	ju	216	THR	N-CA-C	5.70	117.17	111.07
1	jw	9	GLN	CA-C-O	5.70	127.42	121.15
1	jw	90	PRO	N-CA-C	5.70	120.27	111.21
1	jz	86	VAL	O-C-N	-5.70	116.71	123.03
1	k3	5	ASN	CA-C-O	5.70	127.46	121.19
1	kb	67	GLN	CA-C-N	5.70	127.85	120.44
1	kb	67	GLN	C-N-CA	5.70	127.85	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	68	MET	N-CA-C	-5.70	105.44	112.90
1	l8	183	ASN	CA-C-N	5.70	127.84	120.44
1	l8	183	ASN	C-N-CA	5.70	127.84	120.44
1	lz	118	MET	N-CA-C	5.70	117.49	111.28
1	lN	120	HIS	CG-CD2-NE2	5.70	112.90	107.20
1	2o	143	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	2w	19	THR	CB-CA-C	-5.70	101.33	110.79
1	3e	40	PHE	O-C-N	-5.70	116.17	122.09
1	3i	210	THR	O-C-N	-5.70	116.30	122.79
1	4q	93	PRO	CB-CA-C	-5.70	104.40	111.64
1	4M	170	LYS	O-C-N	-5.70	115.56	122.22
1	4M	195	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	5b	154	ARG	O-C-N	5.70	129.51	123.42
1	5G	7	GLN	CA-C-N	5.70	126.97	120.53
1	5G	7	GLN	C-N-CA	5.70	126.97	120.53
1	5J	160	PRO	N-CA-C	5.70	120.15	111.15
1	5L	133	TRP	CA-CB-CG	5.70	124.42	113.60
1	5Q	189	LEU	O-C-N	-5.70	115.56	122.22
1	6d	148	THR	CA-C-N	5.70	128.80	120.71
1	6d	148	THR	C-N-CA	5.70	128.80	120.71
1	6z	179	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	6U	203	LYS	N-CA-CB	5.70	118.49	110.12
1	6W	97	ARG	N-CA-C	5.70	118.49	110.23
1	7a	179	GLN	CA-C-O	-5.70	114.38	120.42
1	7C	97	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	7H	185	MET	CA-C-N	5.70	127.91	120.28
1	7H	185	MET	C-N-CA	5.70	127.91	120.28
1	7L	19	THR	O-C-N	5.70	128.24	122.09
1	84	133	TRP	CD2-CE2-CZ2	-5.70	116.70	122.40
1	8D	226	HIS	CE1-NE2-CD2	-5.70	103.30	109.00
1	9r	29	GLU	CB-CG-CD	5.70	122.28	112.60
1	a4	60	GLY	O-C-N	-5.70	115.29	122.70
1	a5	33	SER	CA-C-O	-5.70	115.75	120.71
1	ah	167	ARG	CA-C-O	5.70	126.54	120.10
1	b0	105	ALA	N-CA-C	5.70	118.22	111.33
1	bC	47	ALA	N-CA-C	5.70	118.53	109.24
1	c2	161	PHE	CA-C-N	5.70	127.91	120.28
1	c2	161	PHE	C-N-CA	5.70	127.91	120.28
1	cp	118	MET	CA-C-O	5.70	126.59	120.55
1	cq	50	GLN	N-CA-C	5.70	117.49	111.28
1	cw	103	ASP	CA-C-O	5.70	126.46	120.42
1	cz	227	LYS	O-C-N	-5.70	115.75	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cD	79	GLU	CA-CB-CG	5.70	125.49	114.10
1	cK	92	GLU	O-C-N	-5.70	115.26	121.53
1	cZ	191	VAL	N-CA-C	-5.70	107.57	113.10
1	d7	195	ASN	CB-CA-C	5.70	118.22	109.50
1	dr	69	LEU	CA-C-N	5.70	127.85	120.44
1	dr	69	LEU	C-N-CA	5.70	127.85	120.44
1	dZ	64	ALA	N-CA-C	5.70	117.49	111.28
1	e2	200	THR	CA-CB-OG1	5.70	118.15	109.60
1	eN	58	THR	N-CA-CB	5.70	119.07	110.30
1	fm	162	ARG	NE-CZ-NH1	5.70	127.20	121.50
1	fq	166	ASP	O-C-N	-5.70	116.20	122.07
1	ft	120	HIS	CG-CD2-NE2	5.70	112.90	107.20
1	fF	74	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	fG	141	ILE	O-C-N	-5.70	116.34	121.87
1	1A	41	SER	O-C-N	-5.70	116.17	122.09
1	r	207	PRO	N-CA-C	5.70	120.17	111.11
1	D	153	ILE	O-C-N	-5.70	116.45	122.83
1	U	136	LEU	CA-C-N	5.70	126.27	120.00
1	U	136	LEU	C-N-CA	5.70	126.27	120.00
1	g9	200	THR	O-C-N	-5.70	116.08	122.12
1	gs	57	ASN	O-C-N	-5.70	114.80	122.43
1	gv	42	ALA	O-C-N	-5.70	116.08	122.12
1	gE	189	LEU	N-CA-C	5.70	117.49	111.28
1	gH	161	PHE	N-CA-C	5.70	117.49	111.28
1	gO	184	TRP	N-CA-CB	-5.70	101.45	110.28
1	gQ	33	SER	CB-CA-C	5.70	117.06	109.65
1	gS	184	TRP	CA-C-O	-5.70	114.51	120.55
1	h3	141	ILE	CA-C-N	5.70	127.74	120.56
1	h3	141	ILE	C-N-CA	5.70	127.74	120.56
1	h7	50	GLN	OE1-CD-NE2	5.70	128.29	122.60
1	h8	63	GLN	CA-C-O	5.70	126.45	119.05
1	hd	176	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	hh	103	ASP	CA-C-N	5.70	129.66	120.55
1	hh	103	ASP	C-N-CA	5.70	129.66	120.55
1	hn	184	TRP	CA-C-O	5.70	126.59	120.55
1	hq	54	THR	N-CA-CB	5.70	118.49	110.12
1	hq	159	GLU	CA-C-N	-5.70	114.39	120.03
1	hq	159	GLU	C-N-CA	-5.70	114.39	120.03
1	hr	212	GLU	N-CA-C	5.70	117.49	111.28
1	hz	80	TRP	CA-C-N	5.70	127.84	120.44
1	hz	80	TRP	C-N-CA	5.70	127.84	120.44
1	hC	194	ALA	CA-C-N	5.70	128.58	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	194	ALA	C-N-CA	5.70	128.58	120.49
1	hD	154	ARG	NE-CZ-NH2	5.70	124.33	119.20
1	hT	143	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
1	1O	25	LYS	N-CA-C	-5.70	105.05	112.23
1	il	129	ILE	N-CA-CB	-5.70	103.89	110.55
1	iF	161	PHE	CB-CA-C	5.70	121.75	110.42
1	iL	98	GLU	CA-C-O	-5.70	114.11	119.80
1	iP	191	VAL	CA-C-N	5.70	127.84	120.44
1	iP	191	VAL	C-N-CA	5.70	127.84	120.44
1	1T	97	ARG	CD-NE-CZ	5.70	132.37	124.40
1	jv	4	GLN	N-CA-C	5.70	117.57	111.36
1	jB	159	GLU	CA-C-N	5.70	125.71	119.90
1	jB	159	GLU	C-N-CA	5.70	125.71	119.90
1	jN	199	LYS	CA-C-N	5.70	127.91	120.28
1	jN	199	LYS	C-N-CA	5.70	127.91	120.28
1	jY	16	SER	CA-C-O	5.70	124.97	120.19
1	1Z	160	PRO	CA-C-N	5.70	127.91	120.28
1	1Z	160	PRO	C-N-CA	5.70	127.91	120.28
1	ki	68	MET	CA-C-N	5.70	128.71	120.79
1	ki	68	MET	C-N-CA	5.70	128.71	120.79
1	ki	131	LYS	CA-C-O	-5.70	113.67	120.10
1	ki	132	ARG	CA-C-O	5.70	126.54	120.10
1	kk	118	MET	N-CA-C	-5.70	106.49	113.50
1	kn	70	LYS	CA-C-N	5.70	128.38	120.29
1	kn	70	LYS	C-N-CA	5.70	128.38	120.29
1	kC	16	SER	CA-C-N	5.70	125.55	119.28
1	kC	16	SER	C-N-CA	5.70	125.55	119.28
1	kF	81	ASP	CA-CB-CG	-5.70	106.90	112.60
1	kG	193	ASN	CB-CG-OD1	5.70	132.19	120.80
1	kW	199	LYS	CA-C-N	5.70	127.91	120.28
1	kW	199	LYS	C-N-CA	5.70	127.91	120.28
1	lt	40	PHE	O-C-N	-5.70	116.08	122.12
1	lC	61	GLY	CA-C-N	5.70	130.83	122.63
1	lC	61	GLY	C-N-CA	5.70	130.83	122.63
1	lP	7	GLN	O-C-N	-5.70	115.47	122.25
1	lQ	115	ILE	CA-C-N	5.70	126.26	119.94
1	lQ	115	ILE	C-N-CA	5.70	126.26	119.94
1	lR	178	SER	O-C-N	-5.70	115.01	122.59
1	2n	81	ASP	CA-C-O	-5.70	113.42	119.97
1	2E	102	SER	N-CA-C	5.70	117.94	111.11
1	2E	148	THR	CA-C-N	5.70	129.35	120.75
1	2E	148	THR	C-N-CA	5.70	129.35	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3b	183	ASN	CA-C-N	5.70	127.84	120.44
1	3b	183	ASN	C-N-CA	5.70	127.84	120.44
1	3e	185	MET	O-C-N	-5.70	116.20	122.07
1	3x	196	PRO	N-CA-CB	-5.70	97.27	103.25
1	3D	109	SER	CA-C-O	5.70	127.77	121.11
1	3G	40	PHE	N-CA-C	-5.70	105.15	111.36
1	3V	161	PHE	O-C-N	-5.70	116.08	122.12
1	45	200	THR	OG1-CB-CG2	-5.70	97.91	109.30
1	4v	221	VAL	CA-CB-CG1	-5.70	100.72	110.40
1	4F	184	TRP	N-CA-C	5.70	117.49	111.28
1	4L	226	HIS	O-C-N	-5.70	115.89	122.95
1	4T	192	GLN	N-CA-C	5.70	119.33	112.38
1	4Z	113	GLU	O-C-N	-5.70	115.94	122.09
1	53	74	ASN	CA-C-N	5.70	128.19	120.44
1	53	74	ASN	C-N-CA	5.70	128.19	120.44
1	5b	198	CYS	CA-C-N	5.70	128.18	120.38
1	5b	198	CYS	C-N-CA	5.70	128.18	120.38
1	5f	42	ALA	CA-C-O	5.70	126.80	120.82
1	5s	72	THR	CA-C-N	5.70	127.74	120.56
1	5s	72	THR	C-N-CA	5.70	127.74	120.56
1	5A	82	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
1	5I	173	ARG	NE-CZ-NH2	-5.70	114.07	119.20
1	5P	145	TYR	N-CA-CB	-5.70	101.73	110.16
1	62	35	GLU	N-CA-C	5.70	119.33	112.38
1	66	163	ASP	CA-C-O	5.70	126.46	120.42
1	69	12	HIS	ND1-CE1-NE2	5.70	114.10	108.40
1	6b	28	GLU	CA-C-O	5.70	126.57	120.70
1	6p	42	ALA	O-C-N	-5.70	115.66	122.15
1	6G	207	PRO	CB-CA-C	5.70	120.96	111.56
1	6M	82	ARG	CA-C-N	5.70	127.91	120.28
1	6M	82	ARG	C-N-CA	5.70	127.91	120.28
1	6N	212	GLU	CA-C-N	5.70	127.84	120.44
1	6N	212	GLU	C-N-CA	5.70	127.84	120.44
1	73	42	ALA	O-C-N	-5.70	114.80	122.43
1	73	94	GLY	O-C-N	-5.70	115.30	122.70
1	75	93	PRO	N-CA-C	-5.70	106.71	114.80
1	79	187	GLU	N-CA-CB	5.70	118.27	110.01
1	7q	197	ASP	CA-CB-CG	-5.70	106.91	112.60
1	7q	230	VAL	N-CA-C	5.70	118.63	110.09
1	7r	24	VAL	CA-C-O	-5.70	114.48	120.57
1	7O	74	ASN	N-CA-C	-5.70	104.98	111.07
1	88	119	THR	CA-C-N	5.70	133.28	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	88	119	THR	C-N-CA	5.70	133.28	121.32
1	8a	169	TYR	N-CA-CB	5.70	118.49	110.12
1	8d	36	VAL	N-CA-C	5.70	116.34	110.36
1	8h	218	CYS	CA-C-O	5.70	126.67	120.12
1	8H	7	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	8J	86	VAL	CA-C-N	5.70	130.85	121.39
1	8J	86	VAL	C-N-CA	5.70	130.85	121.39
1	8T	168	PHE	CA-C-N	5.70	127.91	120.28
1	8T	168	PHE	C-N-CA	5.70	127.91	120.28
1	8T	224	PRO	CA-C-N	5.70	128.47	121.06
1	8T	224	PRO	C-N-CA	5.70	128.47	121.06
1	8U	179	GLN	OE1-CD-NE2	-5.70	116.91	122.60
1	8Z	88	ALA	O-C-N	-5.70	116.14	122.86
1	9a	17	PRO	N-CA-CB	5.70	108.98	103.51
1	9D	228	ALA	N-CA-C	5.70	117.68	110.33
1	9F	164	TYR	N-CA-C	5.70	117.97	111.02
1	9G	18	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
1	9H	40	PHE	O-C-N	-5.70	116.08	122.12
1	9Z	98	GLU	CA-C-N	5.70	126.96	119.84
1	9Z	98	GLU	C-N-CA	5.70	126.96	119.84
1	a0	53	ASN	CA-C-O	-5.70	114.51	120.55
1	aa	142	VAL	N-CA-C	5.70	116.43	110.62
1	ay	117	TRP	N-CA-C	5.70	118.26	111.71
1	aC	5	ASN	N-CA-C	-5.70	105.67	113.30
1	aC	181	VAL	O-C-N	-5.70	116.35	121.87
1	aG	8	GLY	O-C-N	5.70	128.18	122.77
1	aG	198	CYS	CA-C-O	5.70	126.46	120.42
1	14	10	MET	CG-SD-CE	-5.70	88.37	100.90
1	aP	182	LYS	CA-C-N	5.70	128.38	120.29
1	aP	182	LYS	C-N-CA	5.70	128.38	120.29
1	aU	163	ASP	CA-C-N	5.70	128.23	120.54
1	aU	163	ASP	C-N-CA	5.70	128.23	120.54
1	aU	185	MET	O-C-N	5.70	129.27	122.27
1	aZ	53	ASN	CA-C-N	5.70	128.23	120.54
1	aZ	53	ASN	C-N-CA	5.70	128.23	120.54
1	bd	57	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	bx	161	PHE	N-CA-CB	-5.70	101.75	110.01
1	19	121	ASN	CA-CB-CG	-5.70	106.91	112.60
1	bG	55	MET	N-CA-C	5.70	117.57	111.36
1	bO	195	ASN	OD1-CG-ND2	-5.70	116.90	122.60
1	bZ	210	THR	O-C-N	-5.70	114.72	122.81
1	c5	50	GLN	N-CA-C	5.70	118.26	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cc	86	VAL	O-C-N	-5.70	116.48	122.57
1	cf	33	SER	CA-C-N	5.70	125.40	119.82
1	cf	33	SER	C-N-CA	5.70	125.40	119.82
1	1e	112	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	cx	88	ALA	N-CA-C	5.70	118.10	110.35
1	cB	141	ILE	N-CA-C	-5.70	105.18	110.53
1	cO	123	PRO	CA-C-O	-5.70	114.91	121.86
1	cP	12	HIS	CG-CD2-NE2	5.70	112.89	107.20
1	cP	171	THR	CA-C-N	5.70	130.36	120.68
1	cP	171	THR	C-N-CA	5.70	130.36	120.68
1	d2	69	LEU	CA-C-O	5.70	126.80	120.82
1	d3	159	GLU	N-CA-C	5.70	118.66	109.15
1	de	124	ILE	CB-CA-C	5.70	116.24	110.94
1	di	168	PHE	CA-C-O	-5.70	114.84	120.82
1	dq	119	THR	N-CA-C	-5.70	105.64	112.59
1	du	74	ASN	CB-CA-C	-5.70	101.33	110.79
1	dQ	33	SER	N-CA-C	5.70	118.81	110.10
1	dU	210	THR	N-CA-CB	5.70	118.58	110.44
1	dV	57	ASN	CA-CB-CG	-5.70	106.91	112.60
1	e6	7	GLN	CA-C-N	5.70	129.70	121.44
1	e6	7	GLN	C-N-CA	5.70	129.70	121.44
1	eb	22	ALA	CA-C-O	-5.70	114.51	120.55
1	em	166	ASP	CA-C-N	5.70	127.84	120.44
1	em	166	ASP	C-N-CA	5.70	127.84	120.44
1	eo	226	HIS	CE1-NE2-CD2	-5.70	103.31	109.00
1	ey	46	GLY	N-CA-C	-5.70	107.40	115.43
1	eO	169	TYR	CA-C-N	5.70	128.18	120.38
1	eO	169	TYR	C-N-CA	5.70	128.18	120.38
1	fg	119	THR	N-CA-CB	5.70	119.02	110.53
1	fh	196	PRO	O-C-N	-5.70	115.69	122.24
1	1w	141	ILE	N-CA-C	-5.70	104.95	110.42
1	fE	128	GLU	N-CA-CB	5.70	118.27	110.01
1	fE	223	GLY	N-CA-C	5.70	123.96	112.34
1	fG	185	MET	N-CA-C	5.70	117.49	111.28
1	fJ	180	GLU	CB-CG-CD	-5.70	102.92	112.60
1	fL	169	TYR	CB-CA-C	5.70	119.92	110.81
1	c	70	LYS	N-CA-C	5.70	117.49	111.28
1	1	128	GLU	N-CA-C	5.70	117.16	111.07
1	A	130	TYR	O-C-N	-5.70	116.08	122.12
1	C	230	VAL	O-C-N	5.70	127.05	121.98
1	D	13	GLN	OE1-CD-NE2	-5.70	116.90	122.60
1	L	48	THR	CA-C-O	5.70	127.19	121.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	21	ASN	CA-C-O	-5.70	114.84	120.82
1	V	163	ASP	CA-C-O	5.70	126.51	119.79
1	6	80	TRP	N-CA-C	5.70	117.94	111.11
1	9	73	ILE	CA-C-O	5.70	126.62	120.47
1	9	79	GLU	O-C-N	-5.70	116.08	122.12
1	9	114	GLN	N-CA-C	5.70	117.16	111.07
1	gt	154	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	gy	184	TRP	CB-CG-CD2	5.69	134.77	126.80
1	hf	178	SER	CA-C-O	5.69	127.59	121.44
1	hm	170	LYS	O-C-N	-5.69	116.17	122.09
1	hn	190	LEU	CA-C-N	5.69	127.85	120.56
1	hn	190	LEU	C-N-CA	5.69	127.85	120.56
1	hY	3	VAL	CA-C-O	5.69	125.89	120.25
1	1O	33	SER	CA-C-N	5.69	125.81	119.32
1	1O	33	SER	C-N-CA	5.69	125.81	119.32
1	iH	2	ILE	CA-C-N	5.69	130.44	123.10
1	iH	2	ILE	C-N-CA	5.69	130.44	123.10
1	1R	62	HIS	CA-CB-CG	5.69	119.49	113.80
1	iQ	30	LYS	CA-C-N	5.69	130.44	122.36
1	iQ	30	LYS	C-N-CA	5.69	130.44	122.36
1	j3	97	ARG	N-CA-CB	5.69	119.03	109.92
1	j5	165	VAL	CA-C-N	5.69	127.84	120.44
1	j5	165	VAL	C-N-CA	5.69	127.84	120.44
1	j6	228	ALA	O-C-N	-5.69	115.66	122.15
1	jP	162	ARG	CG-CD-NE	-5.69	99.47	112.00
1	jW	78	ALA	CA-C-N	5.69	127.91	120.28
1	jW	78	ALA	C-N-CA	5.69	127.91	120.28
1	jY	25	LYS	CB-CA-C	5.69	119.82	110.88
1	k1	200	THR	CA-C-O	-5.69	114.51	120.55
1	k4	146	SER	O-C-N	-5.69	116.36	121.31
1	20	142	VAL	N-CA-C	5.69	116.47	110.72
1	kd	50	GLN	CA-C-N	5.69	127.91	120.28
1	kd	50	GLN	C-N-CA	5.69	127.91	120.28
1	21	100	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	ky	151	LEU	CB-CA-C	-5.69	101.34	110.79
1	kE	165	VAL	CA-C-N	5.69	128.17	120.65
1	kE	165	VAL	C-N-CA	5.69	128.17	120.65
1	kR	162	ARG	NE-CZ-NH2	5.69	124.33	119.20
1	kS	179	GLN	N-CA-C	5.69	118.22	111.33
1	kY	28	GLU	N-CA-CB	5.69	118.60	110.06
1	l0	226	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	lf	23	TRP	CA-CB-CG	5.69	124.42	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lr	79	GLU	CB-CG-CD	-5.69	102.92	112.60
1	lD	48	THR	CA-C-N	5.69	126.96	119.84
1	lD	48	THR	C-N-CA	5.69	126.96	119.84
1	2h	39	MET	N-CA-C	5.69	117.49	111.28
1	2x	1	PRO	CA-C-N	5.69	129.72	122.37
1	2x	1	PRO	C-N-CA	5.69	129.72	122.37
1	2T	32	PHE	CB-CA-C	-5.69	102.23	111.06
1	3m	70	LYS	N-CA-CB	5.69	118.49	110.12
1	3m	119	THR	O-C-N	-5.69	115.35	122.24
1	3x	11	VAL	O-C-N	-5.69	116.73	123.05
1	4i	132	ARG	CA-C-O	5.69	126.59	120.55
1	4k	150	ILE	CA-CB-CG1	5.69	120.08	110.40
1	4u	221	VAL	N-CA-C	5.69	119.35	112.80
1	4X	97	ARG	CA-CB-CG	5.69	125.49	114.10
1	52	110	THR	CA-CB-CG2	-5.69	100.82	110.50
1	61	20	LEU	CA-C-N	5.69	127.84	120.44
1	61	20	LEU	C-N-CA	5.69	127.84	120.44
1	63	89	GLY	CA-C-O	-5.69	113.38	121.52
1	6g	144	MET	N-CA-C	5.69	117.29	111.14
1	73	162	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	7w	18	ARG	CA-C-N	5.69	128.18	120.44
1	7w	18	ARG	C-N-CA	5.69	128.18	120.44
1	7B	174	ALA	CA-C-O	5.69	126.46	120.42
1	7E	229	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	7W	152	ASP	CA-CB-CG	-5.69	106.91	112.60
1	8j	106	GLY	CA-C-O	5.69	125.45	119.07
1	8t	159	GLU	O-C-N	-5.69	114.23	121.29
1	9y	211	LEU	O-C-N	-5.69	115.27	122.27
1	9B	68	MET	CA-C-N	5.69	128.37	120.63
1	9B	68	MET	C-N-CA	5.69	128.37	120.63
1	9H	99	PRO	N-CA-C	5.69	120.17	110.95
1	9X	64	ALA	CA-C-N	5.69	127.91	120.28
1	9X	64	ALA	C-N-CA	5.69	127.91	120.28
1	al	3	VAL	CA-C-O	5.69	127.65	121.67
1	ao	205	LEU	O-C-N	-5.69	116.08	122.12
1	b1	162	ARG	CA-C-N	5.69	127.91	120.28
1	b1	162	ARG	C-N-CA	5.69	127.91	120.28
1	bD	63	GLN	CA-C-N	5.69	127.91	120.28
1	bD	63	GLN	C-N-CA	5.69	127.91	120.28
1	bS	50	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	c1	120	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	ci	135	ILE	CB-CA-C	-5.69	104.36	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	128	GLU	CA-C-N	5.69	127.73	120.56
1	1g	128	GLU	C-N-CA	5.69	127.73	120.56
1	dm	82	ARG	N-CA-CB	5.69	119.11	110.28
1	eg	170	LYS	CB-CA-C	-5.69	101.34	110.79
1	eG	141	ILE	CA-C-N	5.69	128.26	120.46
1	eG	141	ILE	C-N-CA	5.69	128.26	120.46
1	eG	155	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	eY	162	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	eY	209	ALA	CA-C-O	5.69	127.45	121.19
1	f4	185	MET	CA-CB-CG	5.69	125.49	114.10
1	fd	30	LYS	CA-C-O	5.69	125.31	119.05
1	fv	191	VAL	CB-CA-C	5.69	119.08	111.85
1	fJ	136	LEU	CA-C-N	5.69	126.26	119.94
1	fJ	136	LEU	C-N-CA	5.69	126.26	119.94
1	g4	171	THR	CA-C-N	5.69	128.97	120.31
1	g4	171	THR	C-N-CA	5.69	128.97	120.31
1	g5	174	ALA	O-C-N	-5.69	115.66	122.15
1	g7	144	MET	CG-SD-CE	-5.69	88.37	100.90
1	H	84	HIS	CB-CG-ND1	5.69	131.24	122.70
1	U	78	ALA	O-C-N	-5.69	115.66	122.15
1	U	162	ARG	N-CA-C	5.69	117.49	111.28
1	W	133	TRP	CB-CG-CD2	5.69	134.77	126.80
1	gb	92	GLU	CA-C-O	-5.69	112.82	118.34
1	gj	140	LYS	CA-C-N	5.69	128.50	120.42
1	gj	140	LYS	C-N-CA	5.69	128.50	120.42
1	1D	147	PRO	CA-C-O	-5.69	111.73	118.90
1	gB	210	THR	CA-CB-OG1	5.69	118.14	109.60
1	1E	153	ILE	N-CA-C	5.69	116.92	109.58
1	gI	5	ASN	O-C-N	-5.69	115.02	122.59
1	1G	53	ASN	N-CA-C	5.69	118.22	111.33
1	hm	111	LEU	CA-C-N	5.69	127.84	120.44
1	hm	111	LEU	C-N-CA	5.69	127.84	120.44
1	hq	171	THR	CA-C-O	5.69	126.52	119.97
1	hu	169	TYR	CA-C-N	5.69	127.91	120.28
1	hu	169	TYR	C-N-CA	5.69	127.91	120.28
1	hv	104	ILE	O-C-N	-5.69	114.26	122.12
1	hy	196	PRO	CA-C-N	5.69	127.84	120.44
1	hy	196	PRO	C-N-CA	5.69	127.84	120.44
1	hG	81	ASP	N-CA-C	5.69	117.94	111.11
1	1L	17	PRO	N-CA-C	-5.69	106.59	114.27
1	hO	41	SER	CA-C-N	5.69	128.23	120.54
1	hO	41	SER	C-N-CA	5.69	128.23	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1M	167	ARG	CA-C-N	5.69	127.84	120.44
1	1M	167	ARG	C-N-CA	5.69	127.84	120.44
1	hW	188	THR	N-CA-CB	5.69	120.11	110.49
1	hZ	110	THR	O-C-N	-5.69	116.36	122.85
1	i4	181	VAL	N-CA-C	5.69	116.34	110.36
1	i5	124	ILE	N-CA-CB	5.69	118.23	111.23
1	ib	83	LEU	N-CA-CB	5.69	118.49	110.12
1	1O	170	LYS	CA-C-O	5.69	126.53	120.10
1	if	12	HIS	CA-CB-CG	-5.69	108.11	113.80
1	ik	135	ILE	N-CA-C	5.69	116.43	110.62
1	il	89	GLY	O-C-N	5.69	127.46	121.77
1	iC	22	ALA	CA-C-N	5.69	127.84	120.44
1	iC	22	ALA	C-N-CA	5.69	127.84	120.44
1	1S	87	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	iX	179	GLN	CA-C-N	5.69	127.91	120.28
1	iX	179	GLN	C-N-CA	5.69	127.91	120.28
1	jd	102	SER	O-C-N	-5.69	116.09	122.12
1	jf	194	ALA	O-C-N	-5.69	116.67	123.27
1	jj	62	HIS	ND1-CG-CD2	5.69	111.79	106.10
1	jB	209	ALA	O-C-N	-5.69	115.94	122.89
1	jE	194	ALA	CB-CA-C	5.69	120.02	109.54
1	1X	64	ALA	CA-C-N	5.69	128.37	120.29
1	1X	64	ALA	C-N-CA	5.69	128.37	120.29
1	1X	66	MET	O-C-N	-5.69	115.66	122.15
1	jN	27	VAL	N-CA-C	5.69	116.43	110.62
1	k1	193	ASN	CA-C-N	5.69	129.35	120.75
1	k1	193	ASN	C-N-CA	5.69	129.35	120.75
1	k9	180	GLU	N-CA-C	5.69	117.49	111.28
1	kk	175	GLU	CA-C-N	5.69	131.93	122.54
1	kk	175	GLU	C-N-CA	5.69	131.93	122.54
1	kk	229	ARG	CA-C-N	5.69	128.35	120.49
1	kk	229	ARG	C-N-CA	5.69	128.35	120.49
1	kt	12	HIS	CB-CG-ND1	5.69	131.24	122.70
1	kC	48	THR	CA-C-N	5.69	126.96	119.84
1	kC	48	THR	C-N-CA	5.69	126.96	119.84
1	kE	207	PRO	CA-C-N	5.69	132.61	122.31
1	kE	207	PRO	C-N-CA	5.69	132.61	122.31
1	kI	33	SER	CA-C-O	-5.69	115.10	120.34
1	kJ	87	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	kR	10	MET	N-CA-C	5.69	118.71	110.28
1	kU	40	PHE	N-CA-CB	5.69	118.26	110.01
1	l8	212	GLU	CA-C-N	5.69	127.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	212	GLU	C-N-CA	5.69	127.91	120.28
1	lg	187	GLU	O-C-N	-5.69	114.66	122.46
1	lk	13	GLN	CA-C-N	5.69	128.93	120.90
1	lk	13	GLN	C-N-CA	5.69	128.93	120.90
1	28	110	THR	CA-C-N	5.69	132.41	121.54
1	28	110	THR	C-N-CA	5.69	132.41	121.54
1	lz	216	THR	O-C-N	5.69	128.87	122.27
1	lA	73	ILE	CA-CB-CG2	-5.69	100.82	110.50
1	2c	129	ILE	N-CA-CB	-5.69	102.80	110.54
1	2H	167	ARG	N-CA-C	5.69	117.16	111.07
1	2R	54	THR	O-C-N	-5.69	116.21	122.07
1	2Z	165	VAL	CA-C-N	5.69	127.84	120.44
1	2Z	165	VAL	C-N-CA	5.69	127.84	120.44
1	34	195	ASN	N-CA-CB	-5.69	101.78	110.03
1	3m	159	GLU	N-CA-C	5.69	117.84	109.42
1	3o	95	GLN	N-CA-CB	5.69	118.37	110.17
1	3p	95	GLN	CA-C-N	5.69	129.35	120.75
1	3p	95	GLN	C-N-CA	5.69	129.35	120.75
1	3T	173	ARG	CA-C-N	5.69	133.76	121.64
1	3T	173	ARG	C-N-CA	5.69	133.76	121.64
1	4l	6	LEU	O-C-N	-5.69	115.87	122.87
1	4s	226	HIS	N-CA-C	5.69	122.92	110.80
1	4N	8	GLY	CA-C-O	5.69	126.82	121.41
1	54	169	TYR	N-CA-C	5.69	118.26	111.71
1	5g	9	GLN	N-CA-C	5.69	118.84	110.30
1	5I	83	LEU	CA-C-O	5.69	126.37	119.31
1	5S	57	ASN	OD1-CG-ND2	-5.69	116.91	122.60
1	63	54	THR	N-CA-CB	5.69	118.49	110.12
1	6g	127	GLY	CA-C-N	5.69	127.84	120.44
1	6g	127	GLY	C-N-CA	5.69	127.84	120.44
1	6r	42	ALA	CB-CA-C	-5.69	101.70	110.81
1	6v	124	ILE	O-C-N	-5.69	115.68	120.92
1	6A	95	GLN	O-C-N	-5.69	115.99	123.16
1	6F	189	LEU	CA-C-N	5.69	128.22	120.54
1	6F	189	LEU	C-N-CA	5.69	128.22	120.54
1	6G	98	GLU	O-C-N	-5.69	113.90	121.64
1	6U	79	GLU	CA-C-N	5.69	128.48	120.28
1	6U	79	GLU	C-N-CA	5.69	128.48	120.28
1	70	209	ALA	N-CA-C	5.69	118.27	110.24
1	75	49	PRO	CA-C-N	5.69	127.91	120.28
1	75	49	PRO	C-N-CA	5.69	127.91	120.28
1	7a	123	PRO	CA-C-O	-5.69	114.93	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	168	PHE	N-CA-C	5.69	117.16	111.07
1	7w	88	ALA	O-C-N	-5.69	116.14	122.86
1	7y	31	ALA	O-C-N	-5.69	115.02	122.59
1	7G	148	THR	CA-CB-CG2	-5.69	100.82	110.50
1	7U	74	ASN	N-CA-C	-5.69	104.99	111.14
1	86	33	SER	O-C-N	-5.69	116.48	121.32
1	8d	183	ASN	CA-C-N	5.69	128.23	120.54
1	8d	183	ASN	C-N-CA	5.69	128.23	120.54
1	8B	217	ALA	CA-C-N	5.69	131.05	122.68
1	8B	217	ALA	C-N-CA	5.69	131.05	122.68
1	8S	89	GLY	O-C-N	-5.69	116.08	121.77
1	8Y	53	ASN	CB-CG-ND2	5.69	124.94	116.40
1	9h	68	MET	N-CA-C	5.69	117.56	111.36
1	9l	47	ALA	N-CA-C	5.69	117.96	109.59
1	9n	80	TRP	CA-C-N	5.69	128.70	120.79
1	9n	80	TRP	C-N-CA	5.69	128.70	120.79
1	9o	131	LYS	O-C-N	5.69	127.93	122.07
1	9q	175	GLU	CA-C-O	5.69	127.54	121.05
1	9w	133	TRP	CB-CG-CD1	5.69	135.44	126.90
1	9w	210	THR	O-C-N	-5.69	116.30	122.79
1	9B	133	TRP	N-CA-C	5.69	117.16	111.07
1	9B	205	LEU	CA-C-O	5.69	126.98	121.00
1	9D	84	HIS	N-CA-C	5.69	119.97	109.10
1	9F	172	LEU	N-CA-C	5.69	118.22	111.33
1	9H	50	GLN	N-CA-C	5.69	117.16	111.07
1	9N	143	ARG	O-C-N	-5.69	116.09	122.12
1	9Y	74	ASN	N-CA-CB	5.69	118.27	110.01
1	a5	42	ALA	N-CA-C	5.69	117.16	111.07
1	10	154	ARG	CA-C-N	5.69	130.57	122.72
1	10	154	ARG	C-N-CA	5.69	130.57	122.72
1	ar	123	PRO	N-CA-CB	5.69	109.23	103.25
1	ax	192	GLN	O-C-N	-5.69	114.70	122.33
1	aF	158	LYS	N-CA-CB	-5.69	102.01	110.61
1	aM	71	GLU	CA-C-N	5.69	130.36	120.68
1	aM	71	GLU	C-N-CA	5.69	130.36	120.68
1	aR	94	GLY	CA-C-N	5.69	130.79	122.08
1	aR	94	GLY	C-N-CA	5.69	130.79	122.08
1	aW	195	ASN	O-C-N	-5.69	115.27	121.53
1	b0	97	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	b6	176	GLN	O-C-N	-5.69	115.35	122.35
1	bd	126	VAL	N-CA-CB	5.69	119.48	110.54
1	bs	224	PRO	CA-C-N	5.69	132.57	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bs	224	PRO	C-N-CA	5.69	132.57	121.41
1	bx	3	VAL	CA-C-O	-5.69	115.64	121.67
1	by	152	ASP	O-C-N	-5.69	115.22	122.34
1	bD	107	THR	CA-C-O	-5.69	112.61	119.27
1	bF	16	SER	O-C-N	-5.69	115.44	121.30
1	bI	117	TRP	CA-C-N	5.69	127.91	120.28
1	bI	117	TRP	C-N-CA	5.69	127.91	120.28
1	bI	146	SER	N-CA-CB	5.69	119.29	110.12
1	bN	112	GLN	N-CA-C	5.69	118.42	111.82
1	c1	218	CYS	CB-CA-C	5.69	119.11	111.82
1	c3	128	GLU	N-CA-C	5.69	117.56	111.36
1	c7	55	MET	N-CA-C	5.69	117.16	111.07
1	ck	75	GLU	CB-CG-CD	5.69	122.28	112.60
1	cA	165	VAL	N-CA-C	5.69	116.34	110.36
1	cC	132	ARG	N-CA-CB	5.69	118.49	110.12
1	cF	93	PRO	N-CA-C	5.69	120.14	111.15
1	cI	124	ILE	CB-CA-C	5.69	115.91	110.16
1	cJ	72	THR	CA-C-N	5.69	127.73	120.56
1	cJ	72	THR	C-N-CA	5.69	127.73	120.56
1	cP	151	LEU	N-CA-C	5.69	117.57	111.36
1	cS	100	ARG	N-CA-C	-5.69	103.19	110.53
1	d8	10	MET	N-CA-C	5.69	120.34	113.17
1	d9	53	ASN	CA-C-N	5.69	127.91	120.28
1	d9	53	ASN	C-N-CA	5.69	127.91	120.28
1	db	64	ALA	CA-C-O	-5.69	114.39	120.42
1	dw	57	ASN	CA-C-N	5.69	128.18	120.38
1	dw	57	ASN	C-N-CA	5.69	128.18	120.38
1	dY	87	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	dZ	12	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	1o	194	ALA	CA-C-N	5.69	128.30	120.39
1	1o	194	ALA	C-N-CA	5.69	128.30	120.39
1	e4	196	PRO	N-CA-C	5.69	124.20	112.47
1	1p	37	ILE	CA-C-O	5.69	123.04	118.71
1	et	67	GLN	CA-C-O	-5.69	114.84	120.82
1	ey	145	TYR	N-CA-C	-5.69	105.92	112.92
1	eD	55	MET	O-C-N	-5.69	115.66	122.15
1	eD	152	ASP	CA-C-N	5.69	130.09	120.64
1	eD	152	ASP	C-N-CA	5.69	130.09	120.64
1	1s	92	GLU	CB-CG-CD	5.69	122.28	112.60
1	eP	20	LEU	CA-C-N	5.69	127.84	120.44
1	eP	20	LEU	C-N-CA	5.69	127.84	120.44
1	f0	36	VAL	N-CA-C	5.69	115.88	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f3	84	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	fj	55	MET	N-CA-CB	-5.69	101.76	110.01
1	fw	87	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	fy	54	THR	CA-C-N	5.69	128.37	120.29
1	fy	54	THR	C-N-CA	5.69	128.37	120.29
1	fB	214	MET	CA-C-N	5.69	128.96	120.31
1	fB	214	MET	C-N-CA	5.69	128.96	120.31
1	fE	228	ALA	CB-CA-C	5.69	117.97	110.06
1	fQ	58	THR	N-CA-C	5.69	118.34	111.40
1	g3	34	PRO	O-C-N	-5.69	114.95	122.64
1	n	9	GLN	CA-C-N	5.69	129.34	120.75
1	n	9	GLN	C-N-CA	5.69	129.34	120.75
1	o	112	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	s	133	TRP	CA-C-N	5.69	128.26	120.46
1	s	133	TRP	C-N-CA	5.69	128.26	120.46
1	t	83	LEU	N-CA-C	5.69	117.16	111.07
1	t	114	GLN	CG-CD-NE2	-5.69	107.86	116.40
1	t	131	LYS	CA-CB-CG	5.69	125.48	114.10
1	w	35	GLU	CA-C-O	-5.69	114.52	120.55
1	E	15	ILE	CA-C-N	5.69	128.30	120.39
1	E	15	ILE	C-N-CA	5.69	128.30	120.39
1	T	159	GLU	N-CA-C	5.69	117.69	109.04
1	gg	51	ASP	CA-CB-CG	-5.69	106.91	112.60
1	gt	221	VAL	N-CA-C	-5.69	106.76	113.42
1	gS	116	GLY	CA-C-N	5.69	128.22	120.54
1	gS	116	GLY	C-N-CA	5.69	128.22	120.54
1	hm	100	ARG	CA-C-N	5.69	126.30	119.98
1	hm	100	ARG	C-N-CA	5.69	126.30	119.98
1	hu	24	VAL	CA-C-N	5.69	127.84	120.44
1	hu	24	VAL	C-N-CA	5.69	127.84	120.44
1	hQ	53	ASN	N-CA-C	5.69	117.94	111.11
1	hQ	62	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	i4	206	GLY	CA-C-N	5.69	126.95	119.84
1	i4	206	GLY	C-N-CA	5.69	126.95	119.84
1	i5	228	ALA	CA-C-O	5.69	128.46	122.03
1	ih	166	ASP	CA-C-N	5.69	127.84	120.44
1	ih	166	ASP	C-N-CA	5.69	127.84	120.44
1	iA	223	GLY	N-CA-C	5.69	123.95	112.34
1	iG	114	GLN	O-C-N	-5.69	116.09	122.12
1	iV	169	TYR	N-CA-C	5.69	117.16	111.07
1	iX	142	VAL	CA-C-O	5.69	127.20	121.17
1	j3	199	LYS	N-CA-C	5.69	117.48	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j8	161	PHE	N-CA-C	5.69	117.48	111.28
1	je	180	GLU	CA-C-N	5.69	127.84	120.56
1	je	180	GLU	C-N-CA	5.69	127.84	120.56
1	1V	59	VAL	CA-C-O	5.69	127.32	121.23
1	jx	159	GLU	N-CA-C	5.69	119.54	109.58
1	jW	40	PHE	O-C-N	-5.69	116.21	122.07
1	jY	177	ALA	N-CA-C	5.69	118.48	110.23
1	kj	129	ILE	CA-C-O	5.69	127.19	121.27
1	kq	12	HIS	CA-CB-CG	5.69	119.49	113.80
1	kq	92	GLU	CA-C-O	-5.69	114.25	120.17
1	kz	99	PRO	N-CD-CG	5.69	111.73	103.20
1	kH	72	THR	O-C-N	-5.69	116.21	122.07
1	kJ	50	GLN	CA-C-N	5.69	127.84	120.44
1	kJ	50	GLN	C-N-CA	5.69	127.84	120.44
1	kO	49	PRO	CB-CA-C	5.69	120.95	111.56
1	kW	22	ALA	CA-C-N	5.69	127.84	120.44
1	kW	22	ALA	C-N-CA	5.69	127.84	120.44
1	l0	83	LEU	N-CA-C	5.69	117.16	111.07
1	26	159	GLU	N-CA-C	5.69	118.52	109.64
1	lh	216	THR	N-CA-CB	5.69	118.91	110.49
1	lm	51	ASP	CA-CB-CG	5.69	118.29	112.60
1	29	50	GLN	N-CA-C	5.69	117.16	111.07
1	lJ	212	GLU	O-C-N	5.69	128.15	122.12
1	lK	105	ALA	CA-C-N	5.69	131.25	122.20
1	lK	105	ALA	C-N-CA	5.69	131.25	122.20
1	2f	140	LYS	O-C-N	-5.69	116.09	122.12
1	2l	71	GLU	O-C-N	-5.69	116.09	122.12
1	2m	141	ILE	O-C-N	-5.69	116.35	121.87
1	2o	170	LYS	CA-C-N	5.69	128.37	120.29
1	2o	170	LYS	C-N-CA	5.69	128.37	120.29
1	2t	108	THR	N-CA-CB	5.69	118.47	110.90
1	2v	78	ALA	CA-C-N	5.69	128.96	120.31
1	2v	78	ALA	C-N-CA	5.69	128.96	120.31
1	2w	79	GLU	O-C-N	-5.69	116.09	122.12
1	2E	64	ALA	O-C-N	-5.69	116.09	122.12
1	2L	108	THR	CA-CB-OG1	5.69	118.14	109.60
1	2M	96	MET	N-CA-C	5.69	117.89	109.69
1	2W	25	LYS	N-CA-C	5.69	117.48	111.28
1	33	74	ASN	CB-CG-ND2	5.69	124.94	116.40
1	3e	137	GLY	O-C-N	-5.69	116.08	122.28
1	3s	169	TYR	CA-C-N	5.69	128.96	120.31
1	3s	169	TYR	C-N-CA	5.69	128.96	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3N	18	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	3X	1	PRO	N-CA-CB	5.69	109.26	103.00
1	3X	202	LEU	N-CA-C	5.69	117.16	111.07
1	3Y	132	ARG	CA-C-N	5.69	127.84	120.44
1	3Y	132	ARG	C-N-CA	5.69	127.84	120.44
1	41	93	PRO	N-CA-C	5.69	124.19	112.47
1	4m	138	LEU	O-C-N	-5.69	115.66	122.15
1	4r	170	LYS	N-CA-C	-5.69	105.08	111.28
1	4z	61	GLY	N-CA-C	5.69	119.82	112.54
1	4F	218	CYS	O-C-N	-5.69	112.87	122.03
1	4G	158	LYS	CA-C-N	5.69	128.76	120.51
1	4G	158	LYS	C-N-CA	5.69	128.76	120.51
1	4T	120	HIS	CA-CB-CG	-5.69	108.11	113.80
1	54	75	GLU	CA-C-O	5.69	126.58	120.55
1	57	4	GLN	O-C-N	-5.69	115.44	123.01
1	5a	54	THR	N-CA-CB	5.69	118.26	110.01
1	5h	121	ASN	CB-CA-C	5.69	117.76	110.13
1	5o	22	ALA	N-CA-C	5.69	117.48	111.28
1	5q	190	LEU	CA-C-N	5.69	127.73	120.56
1	5q	190	LEU	C-N-CA	5.69	127.73	120.56
1	5u	80	TRP	CA-C-N	5.69	128.96	120.31
1	5u	80	TRP	C-N-CA	5.69	128.96	120.31
1	5L	180	GLU	CA-C-N	5.69	128.50	120.42
1	5L	180	GLU	C-N-CA	5.69	128.50	120.42
1	5X	96	MET	N-CA-CB	5.69	117.95	109.19
1	6f	167	ARG	CA-C-N	5.69	127.91	120.28
1	6f	167	ARG	C-N-CA	5.69	127.91	120.28
1	6l	142	VAL	CA-CB-CG2	-5.69	100.73	110.40
1	6r	184	TRP	O-C-N	-5.69	116.09	122.12
1	6s	98	GLU	O-C-N	-5.69	115.27	121.53
1	6w	95	GLN	N-CA-CB	5.69	120.11	110.49
1	6Y	128	GLU	N-CA-C	5.69	117.48	111.28
1	73	126	VAL	N-CA-C	5.69	121.18	109.34
1	7b	92	GLU	O-C-N	5.69	124.88	120.38
1	7n	72	THR	CA-C-O	-5.69	114.81	120.90
1	7N	184	TRP	CA-C-O	5.69	126.58	120.55
1	7P	59	VAL	O-C-N	-5.69	116.57	122.66
1	7Q	179	GLN	N-CA-CB	5.69	118.48	110.12
1	8h	138	LEU	N-CA-CB	5.69	118.58	110.16
1	8i	187	GLU	CB-CA-C	-5.69	99.75	109.65
1	8j	187	GLU	CA-C-O	-5.69	114.84	120.82
1	8v	120	HIS	CA-CB-CG	5.69	119.49	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8B	168	PHE	CA-C-N	5.69	128.18	120.38
1	8B	168	PHE	C-N-CA	5.69	128.18	120.38
1	8C	17	PRO	O-C-N	-5.69	114.56	122.30
1	8C	178	SER	O-C-N	-5.69	115.54	122.82
1	8D	73	ILE	CA-C-O	-5.69	115.03	120.95
1	8E	139	ASN	N-CA-C	5.69	117.48	111.28
1	94	68	MET	O-C-N	-5.69	116.09	122.12
1	97	122	PRO	CA-C-N	5.69	126.95	119.84
1	97	122	PRO	C-N-CA	5.69	126.95	119.84
1	9c	100	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	9o	146	SER	CA-C-N	5.69	125.22	119.19
1	9o	146	SER	C-N-CA	5.69	125.22	119.19
1	9u	84	HIS	CA-C-O	-5.69	115.02	121.28
1	9R	195	ASN	N-CA-CB	5.69	117.72	110.04
1	9S	2	ILE	CB-CA-C	-5.69	102.35	110.83
1	9S	167	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	9Y	38	PRO	CB-CA-C	5.69	119.99	111.68
1	a0	214	MET	N-CA-C	5.69	117.56	111.36
1	a6	138	LEU	O-C-N	-5.69	116.09	122.12
1	a9	224	PRO	N-CA-C	5.69	120.14	111.15
1	ad	183	ASN	OD1-CG-ND2	-5.69	116.91	122.60
1	aC	170	LYS	CA-C-O	5.69	126.99	120.90
1	aJ	140	LYS	O-C-N	-5.69	116.17	122.09
1	aJ	205	LEU	CA-C-N	5.69	130.80	121.87
1	aJ	205	LEU	C-N-CA	5.69	130.80	121.87
1	aS	120	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	aT	37	ILE	CA-C-O	-5.69	112.33	119.95
1	aZ	80	TRP	CA-C-N	5.69	128.47	120.28
1	aZ	80	TRP	C-N-CA	5.69	128.47	120.28
1	16	195	ASN	O-C-N	-5.69	115.44	121.30
1	ba	9	GLN	OE1-CD-NE2	5.69	128.29	122.60
1	bh	133	TRP	CA-C-O	5.69	126.58	120.55
1	bi	230	VAL	N-CA-C	5.69	121.17	109.34
1	bp	135	ILE	O-C-N	-5.69	116.35	121.87
1	bp	198	CYS	N-CA-C	5.69	117.56	111.36
1	bx	62	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	by	29	GLU	O-C-N	-5.69	115.66	122.15
1	bz	155	GLN	CA-CB-CG	5.69	125.48	114.10
1	bL	100	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	1a	150	ILE	CA-C-O	-5.69	115.03	120.95
1	bP	23	TRP	N-CA-CB	-5.69	101.76	110.01
1	bW	177	ALA	N-CA-C	5.69	117.64	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	78	ALA	N-CA-CB	-5.69	101.46	110.22
1	cF	230	VAL	CA-C-O	5.69	126.62	120.53
1	cN	151	LEU	N-CA-C	5.69	120.22	113.28
1	cT	120	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	cW	77	ALA	CA-C-N	5.69	128.37	120.29
1	cW	77	ALA	C-N-CA	5.69	128.37	120.29
1	cX	132	ARG	O-C-N	-5.69	116.09	122.12
1	d4	120	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	dc	207	PRO	N-CA-C	5.69	124.19	112.47
1	dl	89	GLY	CA-C-N	5.69	125.69	119.89
1	dl	89	GLY	C-N-CA	5.69	125.69	119.89
1	ds	31	ALA	O-C-N	-5.69	115.02	122.59
1	dv	99	PRO	N-CA-CB	5.69	108.37	103.36
1	dy	71	GLU	O-C-N	-5.69	115.66	122.15
1	dE	84	HIS	CA-C-O	-5.69	114.27	119.62
1	dI	71	GLU	N-CA-C	5.69	117.48	111.28
1	1o	130	TYR	CA-C-O	5.69	126.58	120.55
1	e4	174	ALA	N-CA-C	5.69	117.48	111.28
1	ej	40	PHE	CA-CB-CG	-5.69	108.11	113.80
1	em	110	THR	N-CA-C	-5.69	100.42	109.07
1	er	199	LYS	CA-C-N	5.69	127.90	120.28
1	er	199	LYS	C-N-CA	5.69	127.90	120.28
1	ex	140	LYS	CA-C-N	5.69	128.26	120.46
1	ex	140	LYS	C-N-CA	5.69	128.26	120.46
1	eQ	51	ASP	CA-C-N	5.69	127.84	120.44
1	eQ	51	ASP	C-N-CA	5.69	127.84	120.44
1	eY	224	PRO	CA-C-N	5.69	131.58	122.25
1	eY	224	PRO	C-N-CA	5.69	131.58	122.25
1	eZ	188	THR	N-CA-C	5.69	117.87	108.48
1	fb	224	PRO	CA-C-O	-5.69	115.12	121.32
1	fn	53	ASN	CA-C-O	5.69	126.45	120.42
1	fp	164	TYR	CA-CB-CG	-5.69	103.66	113.90
1	fs	147	PRO	CB-CA-C	5.69	118.67	111.39
1	1B	20	LEU	N-CA-C	5.69	117.48	111.28
1	e	216	THR	CA-C-N	5.69	127.84	120.44
1	e	216	THR	C-N-CA	5.69	127.84	120.44
1	1	118	MET	N-CA-C	5.69	118.42	111.82
1	o	143	ARG	NE-CZ-NH2	5.69	124.32	119.20
1	L	173	ARG	NE-CZ-NH1	-5.69	115.81	121.50
1	O	23	TRP	N-CA-C	5.69	117.16	111.07
1	P	51	ASP	O-C-N	5.69	127.93	122.07
1	Q	4	GLN	OE1-CD-NE2	-5.69	116.91	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gV	154	ARG	CA-C-O	5.69	127.71	121.40
1	hy	143	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	hI	29	GLU	N-CA-CB	-5.69	101.71	110.07
1	it	135	ILE	CA-C-O	-5.69	115.03	120.95
1	iI	114	GLN	CA-C-O	5.69	126.79	120.82
1	iO	111	LEU	N-CA-C	5.69	117.48	111.28
1	iR	12	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	j2	69	LEU	CA-C-N	5.69	128.47	120.28
1	j2	69	LEU	C-N-CA	5.69	128.47	120.28
1	jC	120	HIS	CB-CG-CD2	-5.69	123.80	131.20
1	jH	79	GLU	CA-C-N	5.69	127.90	120.28
1	jH	79	GLU	C-N-CA	5.69	127.90	120.28
1	jQ	159	GLU	N-CA-C	5.69	117.79	109.71
1	k1	72	THR	CB-CA-C	5.69	121.11	110.70
1	kh	200	THR	CA-CB-OG1	5.69	118.13	109.60
1	km	184	TRP	N-CA-CB	5.69	118.48	110.12
1	kQ	204	ALA	N-CA-C	5.69	117.48	111.28
1	li	151	LEU	N-CA-CB	-5.69	101.46	110.22
1	29	82	ARG	O-C-N	-5.69	115.02	122.59
1	2r	217	ALA	CA-C-N	5.69	132.69	123.93
1	2r	217	ALA	C-N-CA	5.69	132.69	123.93
1	2w	84	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	2y	154	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	2C	53	ASN	CA-CB-CG	-5.69	106.91	112.60
1	32	183	ASN	OD1-CG-ND2	-5.69	116.91	122.60
1	38	160	PRO	CA-C-N	5.69	128.22	120.54
1	38	160	PRO	C-N-CA	5.69	128.22	120.54
1	38	211	LEU	CB-CA-C	-5.69	101.35	110.79
1	3q	103	ASP	CA-C-O	5.69	126.79	120.82
1	45	65	ALA	O-C-N	-5.69	116.09	122.12
1	4j	126	VAL	CA-C-N	5.69	126.25	119.94
1	4j	126	VAL	C-N-CA	5.69	126.25	119.94
1	4Y	208	ALA	CA-C-N	5.69	128.91	120.95
1	4Y	208	ALA	C-N-CA	5.69	128.91	120.95
1	5d	96	MET	N-CA-C	5.69	119.19	110.20
1	6d	27	VAL	N-CA-C	5.69	116.42	110.62
1	6i	39	MET	CB-CA-C	-5.69	101.71	110.81
1	6i	111	LEU	CA-C-O	5.69	126.78	120.63
1	6l	148	THR	O-C-N	-5.69	116.02	123.02
1	6O	51	ASP	CA-CB-CG	-5.69	106.91	112.60
1	7h	7	GLN	O-C-N	-5.69	116.90	123.33
1	7r	133	TRP	N-CA-C	5.69	117.48	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7v	112	GLN	CA-C-N	5.69	128.37	120.29
1	7v	112	GLN	C-N-CA	5.69	128.37	120.29
1	7A	208	ALA	CA-C-O	5.69	127.43	120.55
1	7Y	34	PRO	CA-N-CD	-5.69	104.03	112.00
1	8i	20	LEU	O-C-N	-5.69	116.21	122.07
1	8l	124	ILE	O-C-N	-5.69	117.02	121.46
1	8p	102	SER	CA-C-N	5.69	128.18	120.44
1	8p	102	SER	C-N-CA	5.69	128.18	120.44
1	8y	147	PRO	CA-C-O	-5.69	114.96	121.96
1	8P	127	GLY	N-CA-C	-5.69	107.61	114.66
1	8T	143	ARG	CA-C-N	5.69	127.90	120.28
1	8T	143	ARG	C-N-CA	5.69	127.90	120.28
1	9C	110	THR	CA-C-N	5.69	128.22	120.54
1	9C	110	THR	C-N-CA	5.69	128.22	120.54
1	Y	33	SER	N-CA-CB	5.69	118.62	110.03
1	ad	54	THR	CA-CB-OG1	5.69	118.13	109.60
1	ad	123	PRO	CA-C-O	-5.69	115.06	121.43
1	ai	33	SER	N-CA-C	-5.69	103.10	108.22
1	au	226	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	aB	52	LEU	O-C-N	-5.69	115.66	122.15
1	b1	166	ASP	N-CA-CB	-5.69	101.74	110.16
1	16	131	LYS	CA-CB-CG	5.69	125.48	114.10
1	16	153	ILE	N-CA-CB	5.69	120.62	111.23
1	bc	26	VAL	O-C-N	5.69	127.48	121.91
1	bW	210	THR	N-CA-CB	5.69	118.50	110.36
1	ce	87	HIS	CA-CB-CG	5.69	119.49	113.80
1	cC	209	ALA	O-C-N	-5.69	116.03	122.97
1	cD	167	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	cY	10	MET	N-CA-C	5.69	119.54	111.92
1	cY	222	GLY	CA-C-N	5.69	130.80	121.87
1	cY	222	GLY	C-N-CA	5.69	130.80	121.87
1	db	55	MET	N-CA-C	5.69	117.16	111.07
1	dm	70	LYS	O-C-N	-5.69	115.67	122.15
1	dq	19	THR	N-CA-CB	5.69	118.26	110.01
1	dE	230	VAL	N-CA-CB	5.69	117.82	110.99
1	dY	173	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	e6	1	PRO	CA-C-N	5.69	130.18	122.90
1	e6	1	PRO	C-N-CA	5.69	130.18	122.90
1	e7	67	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	e7	110	THR	O-C-N	-5.69	116.57	122.94
1	1r	159	GLU	CA-C-O	-5.69	115.08	119.46
1	f2	105	ALA	O-C-N	-5.69	116.21	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	92	GLU	O-C-N	-5.69	115.36	120.71
1	fc	148	THR	CA-C-N	5.69	130.51	122.09
1	fc	148	THR	C-N-CA	5.69	130.51	122.09
1	fp	70	LYS	N-CA-C	5.69	117.16	111.07
1	fu	114	GLN	CB-CG-CD	-5.69	102.93	112.60
1	fE	112	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	fO	92	GLU	O-C-N	-5.69	115.44	121.30
1	fW	84	HIS	CA-C-O	-5.69	115.00	119.66
1	g3	115	ILE	CA-C-N	5.69	126.29	119.98
1	g3	115	ILE	C-N-CA	5.69	126.29	119.98
1	E	197	ASP	CA-CB-CG	5.69	118.29	112.60
1	H	150	ILE	CA-C-O	5.69	126.97	121.05
1	H	226	HIS	CG-CD2-NE2	5.69	112.89	107.20
1	5	97	ARG	N-CA-C	5.69	118.31	110.35
1	g8	65	ALA	CA-C-N	5.69	127.90	120.28
1	g8	65	ALA	C-N-CA	5.69	127.90	120.28
1	go	55	MET	N-CA-C	5.69	117.48	111.28
1	gM	187	GLU	CA-C-N	5.69	127.83	120.44
1	gM	187	GLU	C-N-CA	5.69	127.83	120.44
1	h4	83	LEU	O-C-N	-5.69	116.09	122.12
1	hr	32	PHE	CA-C-O	-5.69	114.49	120.58
1	hD	5	ASN	CA-CB-CG	5.69	118.29	112.60
1	hE	150	ILE	N-CA-C	5.69	118.16	111.05
1	hI	142	VAL	CA-C-N	5.69	127.83	120.44
1	hI	142	VAL	C-N-CA	5.69	127.83	120.44
1	hN	219	GLN	CA-C-O	5.69	126.19	119.48
1	i3	119	THR	N-CA-C	-5.69	106.00	113.17
1	i6	41	SER	CA-C-N	5.69	128.22	120.54
1	i6	41	SER	C-N-CA	5.69	128.22	120.54
1	iN	159	GLU	N-CA-C	5.69	117.93	110.08
1	j2	205	LEU	CA-C-O	5.69	127.43	120.55
1	1U	169	TYR	CA-C-N	5.69	127.90	120.28
1	1U	169	TYR	C-N-CA	5.69	127.90	120.28
1	ji	6	LEU	CA-C-O	5.69	128.64	120.51
1	jp	195	ASN	CA-C-N	5.69	125.80	119.32
1	jp	195	ASN	C-N-CA	5.69	125.80	119.32
1	jr	214	MET	N-CA-C	5.69	117.48	111.28
1	k0	196	PRO	CA-C-N	5.69	128.17	120.38
1	k0	196	PRO	C-N-CA	5.69	128.17	120.38
1	20	87	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	kc	125	PRO	CA-C-N	5.69	128.25	120.46
1	kc	125	PRO	C-N-CA	5.69	128.25	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kk	27	VAL	O-C-N	-5.69	115.97	121.83
1	kq	178	SER	N-CA-C	5.69	117.88	110.43
1	kO	229	ARG	O-C-N	-5.69	115.81	122.81
1	25	209	ALA	N-CA-C	5.69	118.08	110.35
1	l1	93	PRO	CB-CA-C	-5.69	103.38	111.68
1	l7	5	ASN	CA-C-N	5.69	132.41	121.54
1	l7	5	ASN	C-N-CA	5.69	132.41	121.54
1	l7	73	ILE	CA-C-N	5.69	128.70	120.79
1	l7	73	ILE	C-N-CA	5.69	128.70	120.79
1	l8	18	ARG	CA-C-N	5.69	128.37	120.29
1	l8	18	ARG	C-N-CA	5.69	128.37	120.29
1	lj	139	ASN	CA-C-O	-5.69	114.39	120.42
1	lk	98	GLU	N-CA-C	5.69	116.98	109.93
1	lk	226	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	lm	72	THR	CA-CB-OG1	5.69	118.13	109.60
1	lt	139	ASN	CA-CB-CG	5.69	118.29	112.60
1	lE	62	HIS	ND1-CG-CD2	5.69	111.79	106.10
1	lJ	96	MET	CA-C-O	5.69	128.54	121.89
1	lL	166	ASP	CA-C-O	-5.69	114.85	120.82
1	lQ	84	HIS	CA-C-N	5.69	126.95	119.84
1	lQ	84	HIS	C-N-CA	5.69	126.95	119.84
1	2e	155	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	2j	117	TRP	CA-C-N	5.69	130.22	120.72
1	2j	117	TRP	C-N-CA	5.69	130.22	120.72
1	2o	133	TRP	CB-CG-CD2	-5.69	118.84	126.80
1	2t	47	ALA	N-CA-C	5.69	118.48	110.23
1	2t	126	VAL	N-CA-C	5.69	118.16	111.05
1	2t	197	ASP	CA-C-N	5.69	127.90	120.28
1	2t	197	ASP	C-N-CA	5.69	127.90	120.28
1	2T	106	GLY	CA-C-O	5.69	126.66	119.72
1	2Y	62	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	2Z	7	GLN	N-CA-CB	5.69	120.10	110.49
1	31	82	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	31	121	ASN	CB-CG-ND2	-5.69	107.87	116.40
1	33	108	THR	CB-CA-C	-5.69	100.56	110.17
1	3f	9	GLN	N-CA-CB	5.69	118.42	109.83
1	3i	34	PRO	CA-C-O	5.69	127.31	119.18
1	3p	123	PRO	CA-C-N	-5.69	117.11	123.02
1	3p	123	PRO	C-N-CA	-5.69	117.11	123.02
1	3t	19	THR	CB-CA-C	-5.69	101.95	110.88
1	3z	74	ASN	OD1-CG-ND2	-5.69	116.91	122.60
1	3J	65	ALA	CA-C-O	-5.69	114.85	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Z	154	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	46	58	THR	CA-C-N	5.69	129.60	122.43
1	46	58	THR	C-N-CA	5.69	129.60	122.43
1	49	66	MET	CG-SD-CE	-5.69	88.39	100.90
1	4g	195	ASN	CB-CA-C	5.69	117.64	109.11
1	4u	171	THR	O-C-N	-5.69	114.61	122.46
1	4R	154	ARG	O-C-N	-5.69	116.02	123.02
1	4U	133	TRP	CB-CG-CD1	5.69	135.43	126.90
1	5n	126	VAL	CA-C-N	5.69	126.25	119.94
1	5n	126	VAL	C-N-CA	5.69	126.25	119.94
1	5u	10	MET	CG-SD-CE	-5.69	88.39	100.90
1	5x	103	ASP	CA-C-N	5.69	127.94	120.60
1	5x	103	ASP	C-N-CA	5.69	127.94	120.60
1	5E	214	MET	N-CA-CB	5.69	119.06	110.30
1	5M	181	VAL	N-CA-CB	5.69	117.20	110.55
1	5T	197	ASP	CA-CB-CG	-5.69	106.91	112.60
1	5X	75	GLU	N-CA-CB	5.69	118.26	110.01
1	5Y	33	SER	O-C-N	-5.69	117.87	121.85
1	61	226	HIS	CA-CB-CG	-5.69	108.11	113.80
1	69	200	THR	CA-C-N	5.69	127.73	120.56
1	69	200	THR	C-N-CA	5.69	127.73	120.56
1	6b	39	MET	N-CA-C	5.69	117.48	111.28
1	6c	47	ALA	O-C-N	-5.69	115.93	122.93
1	6g	220	GLY	O-C-N	5.69	129.37	122.32
1	6B	149	SER	CA-C-O	5.69	127.14	120.20
1	6D	30	LYS	N-CA-C	-5.69	106.14	114.39
1	6D	58	THR	N-CA-CB	5.69	119.14	110.44
1	6I	97	ARG	CA-C-O	-5.69	115.36	121.56
1	6U	33	SER	N-CA-C	-5.69	101.40	110.10
1	6Z	68	MET	O-C-N	-5.69	116.09	122.12
1	75	84	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	7r	61	GLY	N-CA-C	-5.69	102.74	112.64
1	7H	82	ARG	CA-C-N	5.69	127.90	120.28
1	7H	82	ARG	C-N-CA	5.69	127.90	120.28
1	7K	28	GLU	N-CA-C	5.69	117.93	111.11
1	7K	47	ALA	N-CA-C	5.69	118.70	110.28
1	7P	86	VAL	N-CA-C	5.69	116.92	109.58
1	7Q	4	GLN	CA-C-O	5.69	128.05	121.28
1	80	145	TYR	CA-C-O	5.69	126.58	120.55
1	83	124	ILE	N-CA-C	-5.69	101.51	107.60
1	87	186	THR	CA-C-N	5.69	127.90	120.28
1	87	186	THR	C-N-CA	5.69	127.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8e	82	ARG	NE-CZ-NH1	5.69	127.19	121.50
1	8p	121	ASN	CA-CB-CG	-5.69	106.91	112.60
1	8M	208	ALA	N-CA-C	5.69	120.06	113.18
1	8N	44	SER	CA-C-O	5.69	126.30	119.59
1	8Q	29	GLU	N-CA-C	5.69	117.94	111.11
1	96	126	VAL	N-CA-C	5.69	117.10	110.62
1	96	188	THR	O-C-N	-5.69	115.67	122.15
1	9j	210	THR	O-C-N	-5.69	115.66	122.65
1	9q	203	LYS	CA-C-N	5.69	131.09	121.14
1	9q	203	LYS	C-N-CA	5.69	131.09	121.14
1	9E	193	ASN	CA-CB-CG	-5.69	106.91	112.60
1	9E	202	LEU	CA-C-N	5.69	128.95	120.31
1	9E	202	LEU	C-N-CA	5.69	128.95	120.31
1	a2	161	PHE	O-C-N	-5.69	116.09	122.12
1	a7	206	GLY	CA-C-O	-5.69	113.39	121.52
1	af	151	LEU	N-CA-C	5.69	117.94	111.11
1	am	42	ALA	CB-CA-C	-5.69	100.11	110.63
1	an	24	VAL	O-C-N	-5.69	116.25	121.94
1	12	225	GLY	O-C-N	5.69	127.75	122.57
1	aF	65	ALA	N-CA-C	5.69	117.16	111.07
1	aN	71	GLU	CA-C-N	5.69	127.90	120.28
1	aN	71	GLU	C-N-CA	5.69	127.90	120.28
1	aP	44	SER	O-C-N	-5.69	114.92	122.20
1	b3	209	ALA	CA-C-O	-5.69	115.27	121.87
1	bd	13	GLN	OE1-CD-NE2	5.69	128.29	122.60
1	bd	163	ASP	CA-C-N	5.69	127.83	120.44
1	bd	163	ASP	C-N-CA	5.69	127.83	120.44
1	be	72	THR	CA-C-N	5.69	127.81	120.70
1	be	72	THR	C-N-CA	5.69	127.81	120.70
1	bk	40	PHE	CA-C-N	5.69	128.22	120.54
1	bk	40	PHE	C-N-CA	5.69	128.22	120.54
1	bo	166	ASP	N-CA-CB	-5.69	101.82	110.07
1	bF	13	GLN	CA-C-N	5.69	128.84	120.82
1	bF	13	GLN	C-N-CA	5.69	128.84	120.82
1	bK	33	SER	CA-C-N	5.69	126.07	119.47
1	bK	33	SER	C-N-CA	5.69	126.07	119.47
1	cd	58	THR	N-CA-CB	5.69	118.48	110.12
1	cs	117	TRP	CA-C-N	5.69	128.47	120.28
1	cs	117	TRP	C-N-CA	5.69	128.47	120.28
1	cu	150	ILE	CA-C-O	5.69	126.66	120.57
1	du	226	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	dG	158	LYS	CA-C-N	5.69	128.38	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	158	LYS	C-N-CA	5.69	128.38	120.65
1	dI	188	THR	N-CA-CB	-5.69	101.38	110.19
1	dP	184	TRP	N-CA-C	5.69	118.25	111.71
1	e6	97	ARG	CD-NE-CZ	-5.69	116.44	124.40
1	eb	7	GLN	O-C-N	-5.69	115.61	123.12
1	eg	218	CYS	N-CA-C	5.69	120.17	113.23
1	ei	166	ASP	CA-C-O	-5.69	114.85	120.82
1	ek	118	MET	N-CA-C	5.69	117.16	111.07
1	ep	63	GLN	OE1-CD-NE2	-5.69	116.91	122.60
1	1s	27	VAL	CA-CB-CG1	5.69	120.07	110.40
1	eM	84	HIS	CA-C-O	-5.69	114.50	120.70
1	eT	181	VAL	N-CA-C	5.69	116.46	110.72
1	f2	81	ASP	N-CA-C	5.69	118.42	111.82
1	fe	140	LYS	CA-C-O	-5.69	114.52	120.55
1	fh	193	ASN	N-CA-CB	5.69	119.39	110.46
1	1x	122	PRO	CA-C-N	5.69	125.45	119.76
1	1x	122	PRO	C-N-CA	5.69	125.45	119.76
1	fu	34	PRO	N-CA-CB	5.69	109.22	103.25
1	fB	201	ILE	CA-CB-CG1	5.69	120.07	110.40
1	fG	20	LEU	N-CA-CB	5.69	118.46	109.82
1	fN	71	GLU	CB-CG-CD	5.69	122.27	112.60
1	1z	103	ASP	CA-C-O	5.69	126.56	120.70
1	fR	178	SER	O-C-N	-5.69	116.84	123.27
1	fU	143	ARG	N-CA-C	5.69	117.16	111.07
1	g3	181	VAL	CA-C-O	5.69	126.39	120.25
1	0	89	GLY	CA-C-N	5.69	126.95	119.84
1	0	89	GLY	C-N-CA	5.69	126.95	119.84
1	f	35	GLU	CB-CA-C	-5.69	100.11	110.63
1	1	195	ASN	CA-C-N	5.69	125.36	119.05
1	1	195	ASN	C-N-CA	5.69	125.36	119.05
1	1	229	ARG	N-CA-C	5.69	118.26	110.24
1	n	100	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	D	202	LEU	CA-C-N	5.69	128.22	120.54
1	D	202	LEU	C-N-CA	5.69	128.22	120.54
1	K	156	GLY	CA-C-N	5.69	125.80	119.32
1	K	156	GLY	C-N-CA	5.69	125.80	119.32
1	U	133	TRP	CA-C-N	5.69	128.25	120.46
1	U	133	TRP	C-N-CA	5.69	128.25	120.46
1	W	109	SER	O-C-N	-5.69	115.99	123.16
1	gl	104	ILE	CA-C-O	-5.69	115.04	120.95
1	gN	3	VAL	CA-C-N	5.69	128.78	120.71
1	gN	3	VAL	C-N-CA	5.69	128.78	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	99	PRO	N-CA-CB	5.69	108.39	103.27
1	hb	71	GLU	CA-C-N	5.69	128.95	120.31
1	hb	71	GLU	C-N-CA	5.69	128.95	120.31
1	he	222	GLY	CA-C-O	5.69	125.01	118.98
1	hs	67	GLN	CA-C-N	5.69	127.90	120.28
1	hs	67	GLN	C-N-CA	5.69	127.90	120.28
1	hF	50	GLN	CA-C-N	5.69	128.37	120.29
1	hF	50	GLN	C-N-CA	5.69	128.37	120.29
1	i5	112	GLN	O-C-N	-5.69	115.57	122.11
1	ik	42	ALA	N-CA-CB	-5.69	101.74	110.16
1	1Q	113	GLU	CA-C-N	5.69	127.83	120.44
1	1Q	113	GLU	C-N-CA	5.69	127.83	120.44
1	1R	107	THR	CA-CB-OG1	5.69	118.13	109.60
1	iR	57	ASN	N-CA-C	5.69	119.39	112.23
1	1S	204	ALA	O-C-N	-5.69	115.27	122.26
1	j8	63	GLN	O-C-N	-5.69	114.81	122.43
1	j8	64	ALA	CA-C-N	5.69	127.83	120.44
1	j8	64	ALA	C-N-CA	5.69	127.83	120.44
1	jw	179	GLN	O-C-N	-5.69	115.57	122.22
1	jF	132	ARG	NE-CZ-NH2	-5.69	114.08	119.20
1	jL	170	LYS	CG-CD-CE	5.69	124.38	111.30
1	kl	195	ASN	CA-C-O	-5.69	114.50	120.70
1	kE	195	ASN	O-C-N	-5.69	115.44	121.30
1	lx	40	PHE	CA-C-O	5.69	126.79	120.82
1	ly	3	VAL	CA-C-O	5.69	127.73	121.13
1	lQ	156	GLY	O-C-N	-5.69	116.08	121.77
1	2d	146	SER	N-CA-C	5.69	116.86	109.64
1	2m	65	ALA	N-CA-CB	-5.69	101.76	110.12
1	2y	84	HIS	O-C-N	-5.69	114.24	121.29
1	3d	66	MET	N-CA-CB	5.69	118.25	110.01
1	3l	12	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	3Y	225	GLY	CA-C-N	5.69	128.47	120.28
1	3Y	225	GLY	C-N-CA	5.69	128.47	120.28
1	4l	122	PRO	N-CA-CB	5.69	108.86	102.60
1	4y	87	HIS	CA-C-O	5.69	126.27	120.24
1	51	228	ALA	N-CA-C	5.69	118.47	110.23
1	5X	130	TYR	CA-C-N	5.69	127.90	120.28
1	5X	130	TYR	C-N-CA	5.69	127.90	120.28
1	6C	212	GLU	N-CA-C	5.69	117.48	111.28
1	6D	64	ALA	N-CA-CB	5.69	118.48	110.12
1	6E	181	VAL	CA-C-N	5.69	127.90	120.28
1	6E	181	VAL	C-N-CA	5.69	127.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	229	ARG	NH1-CZ-NH2	-5.69	111.91	119.30
1	6Y	102	SER	N-CA-C	5.69	118.25	111.71
1	7f	55	MET	CA-C-N	5.69	127.90	120.28
1	7f	55	MET	C-N-CA	5.69	127.90	120.28
1	7n	87	HIS	CE1-NE2-CD2	-5.69	103.31	109.00
1	7q	37	ILE	N-CA-C	5.69	120.86	112.61
1	7u	19	THR	CA-C-N	5.69	127.83	120.44
1	7u	19	THR	C-N-CA	5.69	127.83	120.44
1	7C	204	ALA	N-CA-C	5.69	117.56	111.36
1	7O	190	LEU	CA-C-N	5.69	128.25	120.46
1	7O	190	LEU	C-N-CA	5.69	128.25	120.46
1	8O	185	MET	CG-SD-CE	-5.69	88.39	100.90
1	8X	188	THR	CA-CB-OG1	-5.69	101.07	109.60
1	8Y	106	GLY	CA-C-O	5.69	125.60	119.06
1	95	84	HIS	ND1-CE1-NE2	5.69	114.09	108.40
1	99	62	HIS	CA-C-O	5.69	128.05	121.28
1	9b	209	ALA	N-CA-C	5.69	122.91	110.80
1	9t	53	ASN	CA-CB-CG	5.69	118.29	112.60
1	9L	189	LEU	CB-CA-C	-5.69	101.71	110.81
1	9W	35	GLU	N-CA-C	5.69	119.69	112.87
1	a8	167	ARG	CA-C-N	5.69	128.17	120.44
1	a8	167	ARG	C-N-CA	5.69	128.17	120.44
1	aY	70	LYS	CA-C-N	5.69	127.90	120.28
1	aY	70	LYS	C-N-CA	5.69	127.90	120.28
1	bh	115	ILE	CA-C-N	5.69	126.14	119.94
1	bh	115	ILE	C-N-CA	5.69	126.14	119.94
1	bA	230	VAL	O-C-N	-5.69	116.41	122.61
1	bD	223	GLY	CA-C-N	5.69	126.95	119.84
1	bD	223	GLY	C-N-CA	5.69	126.95	119.84
1	bL	40	PHE	N-CA-C	-5.69	104.70	111.69
1	1c	34	PRO	CA-C-N	5.69	128.68	120.38
1	1c	34	PRO	C-N-CA	5.69	128.68	120.38
1	cj	14	ALA	N-CA-CB	-5.69	101.38	109.85
1	cE	159	GLU	CA-C-N	5.69	125.62	119.76
1	cE	159	GLU	C-N-CA	5.69	125.62	119.76
1	d3	19	THR	CA-C-N	5.69	128.36	120.29
1	d3	19	THR	C-N-CA	5.69	128.36	120.29
1	1i	59	VAL	CA-C-O	5.69	127.45	120.74
1	dj	74	ASN	CA-C-O	5.69	126.58	120.55
1	dJ	21	ASN	CA-C-N	5.69	127.90	120.28
1	dJ	21	ASN	C-N-CA	5.69	127.90	120.28
1	1n	160	PRO	O-C-N	-5.69	116.06	123.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e2	107	THR	N-CA-C	-5.69	105.06	112.23
1	eo	2	ILE	CA-C-N	5.69	131.43	122.33
1	eo	2	ILE	C-N-CA	5.69	131.43	122.33
1	eu	4	GLN	N-CA-CB	5.69	120.10	110.49
1	eN	188	THR	CA-C-N	5.69	128.17	120.38
1	eN	188	THR	C-N-CA	5.69	128.17	120.38
1	eY	153	ILE	N-CA-C	-5.69	100.29	108.53
1	fd	123	PRO	CA-C-O	-5.69	114.49	121.31
1	1y	175	GLU	O-C-N	-5.69	115.90	122.95
1	o	211	LEU	CA-C-O	-5.69	114.52	120.55
1	D	173	ARG	N-CA-C	5.69	117.56	111.36
1	J	230	VAL	CA-C-N	5.69	131.94	121.70
1	J	230	VAL	C-N-CA	5.69	131.94	121.70
1	gc	87	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	gf	180	GLU	N-CA-CB	5.68	118.41	109.94
1	gv	51	ASP	CA-CB-CG	-5.68	106.92	112.60
1	gG	120	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	gK	1	PRO	CA-C-N	5.68	130.24	121.71
1	gK	1	PRO	C-N-CA	5.68	130.24	121.71
1	gO	5	ASN	CA-CB-CG	5.68	118.28	112.60
1	gR	58	THR	O-C-N	-5.68	115.28	122.27
1	h5	183	ASN	N-CA-CB	5.68	118.25	110.01
1	h9	147	PRO	N-CA-C	-5.68	106.12	113.57
1	h9	201	ILE	CA-C-N	5.68	127.90	120.28
1	h9	201	ILE	C-N-CA	5.68	127.90	120.28
1	ha	117	TRP	O-C-N	5.68	128.00	122.09
1	hb	122	PRO	CA-C-N	5.68	126.95	119.84
1	hb	122	PRO	C-N-CA	5.68	126.95	119.84
1	hB	209	ALA	N-CA-C	5.68	118.47	110.23
1	hT	82	ARG	CD-NE-CZ	5.68	132.36	124.40
1	hV	51	ASP	CA-C-N	5.68	128.36	120.29
1	hV	51	ASP	C-N-CA	5.68	128.36	120.29
1	hY	156	GLY	CA-C-N	5.68	126.95	119.84
1	hY	156	GLY	C-N-CA	5.68	126.95	119.84
1	i4	8	GLY	CA-C-O	5.68	126.15	122.23
1	1P	190	LEU	O-C-N	-5.68	114.53	122.37
1	is	63	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	iw	169	TYR	N-CA-CB	5.68	118.48	110.12
1	iz	66	MET	CA-C-N	5.68	128.22	120.54
1	iz	66	MET	C-N-CA	5.68	128.22	120.54
1	iB	117	TRP	N-CA-C	5.68	118.21	111.33
1	iD	75	GLU	CA-C-N	5.68	127.90	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	75	GLU	C-N-CA	5.68	127.90	120.28
1	iE	16	SER	O-C-N	-5.68	117.03	121.47
1	iG	132	ARG	CG-CD-NE	-5.68	99.49	112.00
1	iI	215	MET	CA-C-O	5.68	126.44	120.42
1	iM	6	LEU	O-C-N	-5.68	115.03	122.59
1	iM	21	ASN	CA-CB-CG	5.68	118.28	112.60
1	iN	20	LEU	CB-CA-C	-5.68	101.19	110.85
1	iR	228	ALA	N-CA-C	5.68	118.47	110.23
1	iY	108	THR	N-CA-C	-5.68	105.55	112.88
1	j4	54	THR	CA-C-N	5.68	127.90	120.28
1	j4	54	THR	C-N-CA	5.68	127.90	120.28
1	jf	118	MET	N-CA-CB	-5.68	100.86	110.41
1	jh	37	ILE	N-CA-C	5.68	121.16	108.88
1	jl	48	THR	N-CA-CB	5.68	117.95	109.88
1	js	34	PRO	CA-C-N	5.68	128.47	120.28
1	js	34	PRO	C-N-CA	5.68	128.47	120.28
1	jx	205	LEU	CA-C-O	5.68	126.39	119.11
1	jI	146	SER	N-CA-C	5.68	120.48	112.75
1	jN	52	LEU	N-CA-C	5.68	118.21	111.33
1	jR	155	GLN	CB-CG-CD	-5.68	102.94	112.60
1	jU	111	LEU	N-CA-C	5.68	117.48	111.28
1	ka	181	VAL	N-CA-C	5.68	118.20	111.09
1	kb	105	ALA	N-CA-C	5.68	119.95	113.19
1	kg	136	LEU	N-CA-C	5.68	117.48	111.28
1	kh	103	ASP	O-C-N	5.68	128.63	122.15
1	kl	84	HIS	O-C-N	-5.68	115.11	120.85
1	kl	189	LEU	O-C-N	-5.68	115.67	122.15
1	km	48	THR	CA-C-N	5.68	125.80	119.32
1	km	48	THR	C-N-CA	5.68	125.80	119.32
1	ko	2	ILE	O-C-N	-5.68	116.45	123.10
1	kq	195	ASN	CB-CA-C	5.68	118.50	109.52
1	kq	195	ASN	OD1-CG-ND2	5.68	128.28	122.60
1	22	126	VAL	N-CA-CB	5.68	117.57	110.47
1	kz	48	THR	N-CA-C	5.68	119.08	109.87
1	kI	74	ASN	CA-CB-CG	-5.68	106.92	112.60
1	kX	189	LEU	CA-C-O	5.68	126.58	120.55
1	l5	40	PHE	CA-C-O	5.68	126.58	120.55
1	26	69	LEU	CB-CA-C	5.68	119.80	110.88
1	lf	48	THR	CA-C-O	-5.68	114.11	120.25
1	lo	18	ARG	O-C-N	-5.68	115.67	122.15
1	lw	148	THR	CB-CA-C	-5.68	100.80	109.89
1	lA	228	ALA	CA-C-O	5.68	126.51	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2a	226	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	2i	190	LEU	CA-C-O	-5.68	114.85	120.82
1	2r	98	GLU	CA-C-N	5.68	126.95	119.84
1	2r	98	GLU	C-N-CA	5.68	126.95	119.84
1	2r	173	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	2H	186	THR	N-CA-CB	5.68	118.57	110.16
1	2Z	99	PRO	N-CA-CB	5.68	108.31	103.19
1	2Z	213	GLU	O-C-N	-5.68	115.67	122.15
1	39	121	ASN	CB-CA-C	-5.68	102.51	110.13
1	3c	132	ARG	CA-C-N	5.68	128.36	120.29
1	3c	132	ARG	C-N-CA	5.68	128.36	120.29
1	3e	177	ALA	CA-C-O	5.68	127.36	120.99
1	3h	222	GLY	N-CA-C	5.68	122.81	112.58
1	3l	169	TYR	N-CA-C	5.68	118.41	111.82
1	3n	13	GLN	CA-C-N	5.68	128.94	120.87
1	3n	13	GLN	C-N-CA	5.68	128.94	120.87
1	3r	162	ARG	N-CA-C	5.68	117.15	111.07
1	3A	206	GLY	CA-C-N	5.68	125.22	119.19
1	3A	206	GLY	C-N-CA	5.68	125.22	119.19
1	3F	215	MET	N-CA-CB	-5.68	101.77	110.12
1	42	184	TRP	CA-C-N	5.68	127.83	120.44
1	42	184	TRP	C-N-CA	5.68	127.83	120.44
1	43	36	VAL	CA-C-O	5.68	126.88	120.85
1	49	161	PHE	CA-C-N	5.68	127.90	120.28
1	49	161	PHE	C-N-CA	5.68	127.90	120.28
1	4j	229	ARG	NE-CZ-NH1	5.68	127.19	121.50
1	4q	141	ILE	CA-C-O	-5.68	114.33	120.47
1	4t	228	ALA	O-C-N	-5.68	115.54	122.82
1	4C	27	VAL	CA-C-N	5.68	128.17	120.44
1	4C	27	VAL	C-N-CA	5.68	128.17	120.44
1	4O	132	ARG	CB-CA-C	5.68	121.58	110.67
1	4Q	125	PRO	CA-C-N	5.68	127.72	120.56
1	4Q	125	PRO	C-N-CA	5.68	127.72	120.56
1	5h	170	LYS	CA-C-N	5.68	127.83	120.44
1	5h	170	LYS	C-N-CA	5.68	127.83	120.44
1	5y	128	GLU	O-C-N	-5.68	115.28	122.27
1	5y	217	ALA	N-CA-C	5.68	118.08	110.35
1	5M	195	ASN	O-C-N	-5.68	115.28	121.53
1	5V	212	GLU	N-CA-C	5.68	117.15	111.07
1	68	61	GLY	N-CA-C	5.68	119.87	112.25
1	6e	65	ALA	N-CA-CB	-5.68	101.77	110.12
1	6k	54	THR	CA-CB-CG2	5.68	120.17	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	212	GLU	N-CA-C	5.68	117.48	111.28
1	6x	181	VAL	N-CA-C	5.68	115.88	110.42
1	6Z	132	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
1	70	78	ALA	O-C-N	-5.68	116.09	122.12
1	75	17	PRO	CA-C-N	5.68	127.83	120.44
1	75	17	PRO	C-N-CA	5.68	127.83	120.44
1	75	32	PHE	O-C-N	-5.68	116.54	123.19
1	7f	206	GLY	N-CA-C	5.68	119.09	112.10
1	7n	15	ILE	N-CA-C	5.68	117.04	109.37
1	7s	92	GLU	CA-C-O	-5.68	114.50	120.70
1	7y	55	MET	CA-C-N	5.68	127.90	120.28
1	7y	55	MET	C-N-CA	5.68	127.90	120.28
1	7y	225	GLY	CA-C-N	5.68	127.90	120.28
1	7y	225	GLY	C-N-CA	5.68	127.90	120.28
1	7A	194	ALA	CA-C-O	-5.68	115.30	121.44
1	7K	167	ARG	N-CA-C	5.68	117.15	111.07
1	7L	68	MET	N-CA-CB	5.68	118.57	110.16
1	7P	131	LYS	CB-CA-C	-5.68	101.35	110.79
1	7Y	221	VAL	N-CA-C	5.68	119.21	113.47
1	85	224	PRO	CA-C-N	5.68	127.44	120.22
1	85	224	PRO	C-N-CA	5.68	127.44	120.22
1	86	39	MET	CA-C-O	5.68	126.45	120.42
1	88	50	GLN	OE1-CD-NE2	5.68	128.28	122.60
1	8r	209	ALA	N-CA-CB	-5.68	100.88	110.49
1	8z	50	GLN	N-CA-C	5.68	117.48	111.28
1	97	166	ASP	CA-CB-CG	5.68	118.28	112.60
1	99	117	TRP	O-C-N	-5.68	116.21	122.07
1	9b	98	GLU	O-C-N	5.68	126.14	121.31
1	9e	129	ILE	N-CA-C	5.68	116.42	110.62
1	9k	32	PHE	CA-CB-CG	-5.68	108.11	113.80
1	9l	64	ALA	CA-C-N	5.68	127.90	120.28
1	9l	64	ALA	C-N-CA	5.68	127.90	120.28
1	9o	5	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	9z	39	MET	N-CA-CB	5.68	118.57	110.16
1	9B	74	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	9H	84	HIS	CG-CD2-NE2	5.68	112.89	107.20
1	9O	56	LEU	N-CA-C	5.68	117.15	111.07
1	9P	87	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	a2	39	MET	CG-SD-CE	-5.68	88.40	100.90
1	a7	198	CYS	N-CA-C	5.68	117.47	111.28
1	af	107	THR	CA-CB-CG2	5.68	120.16	110.50
1	ai	134	ILE	O-C-N	-5.68	116.34	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	30	LYS	N-CA-C	-5.68	106.02	113.12
1	al	183	ASN	CA-C-O	5.68	126.79	120.82
1	aq	165	VAL	CA-C-N	5.68	127.83	120.44
1	aq	165	VAL	C-N-CA	5.68	127.83	120.44
1	aJ	42	ALA	O-C-N	-5.68	115.57	122.22
1	aP	195	ASN	O-C-N	-5.68	115.57	121.60
1	b0	50	GLN	CA-C-N	5.68	127.83	120.44
1	b0	50	GLN	C-N-CA	5.68	127.83	120.44
1	bb	165	VAL	CA-CB-CG1	5.68	120.06	110.40
1	bk	229	ARG	CA-C-N	5.68	132.20	121.97
1	bk	229	ARG	C-N-CA	5.68	132.20	121.97
1	18	224	PRO	N-CA-CB	5.68	109.22	103.25
1	bA	4	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	bC	140	LYS	N-CA-C	5.68	117.48	111.28
1	bG	162	ARG	NE-CZ-NH1	5.68	127.19	121.50
1	bN	34	PRO	N-CA-CB	-5.68	97.28	103.25
1	bN	139	ASN	O-C-N	5.68	128.15	122.12
1	bT	34	PRO	CA-C-N	5.68	128.47	120.28
1	bT	34	PRO	C-N-CA	5.68	128.47	120.28
1	cj	153	ILE	O-C-N	-5.68	115.82	122.07
1	cx	40	PHE	CA-C-O	-5.68	114.52	120.55
1	cz	98	GLU	N-CA-CB	5.68	118.16	110.14
1	cH	102	SER	N-CA-C	5.68	119.47	112.54
1	1g	194	ALA	N-CA-C	5.68	118.51	110.50
1	cQ	76	GLU	N-CA-C	5.68	118.68	111.69
1	1h	195	ASN	CA-C-N	5.68	125.05	118.85
1	1h	195	ASN	C-N-CA	5.68	125.05	118.85
1	df	191	VAL	N-CA-CB	5.68	117.20	110.55
1	dy	97	ARG	CA-C-N	5.68	128.38	120.65
1	dy	97	ARG	C-N-CA	5.68	128.38	120.65
1	dO	186	THR	N-CA-C	-5.68	104.99	111.07
1	dU	82	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	e2	135	ILE	CA-C-N	5.68	128.15	120.65
1	e2	135	ILE	C-N-CA	5.68	128.15	120.65
1	e3	83	LEU	O-C-N	-5.68	115.60	122.48
1	e5	180	GLU	N-CA-CB	-5.68	101.76	110.12
1	ea	78	ALA	N-CA-C	5.68	117.48	111.28
1	eg	79	GLU	N-CA-C	5.68	117.93	111.11
1	ek	66	MET	CA-C-O	-5.68	114.85	120.82
1	ek	194	ALA	CA-C-N	5.68	128.96	120.83
1	ek	194	ALA	C-N-CA	5.68	128.96	120.83
1	em	33	SER	CA-C-N	5.68	125.39	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	33	SER	C-N-CA	5.68	125.39	119.82
1	em	36	VAL	CA-C-O	5.68	124.66	119.20
1	en	2	ILE	CB-CA-C	5.68	117.49	110.73
1	eo	111	LEU	N-CA-C	5.68	118.25	111.71
1	eA	187	GLU	CB-CA-C	-5.68	99.11	110.42
1	eE	223	GLY	O-C-N	-5.68	116.50	122.18
1	eH	100	ARG	N-CA-C	5.68	117.66	110.33
1	f0	120	HIS	CE1-NE2-CD2	-5.68	103.31	109.00
1	f7	92	GLU	CA-C-N	5.68	126.63	120.83
1	f7	92	GLU	C-N-CA	5.68	126.63	120.83
1	ff	130	TYR	N-CA-C	5.68	117.48	111.28
1	fl	68	MET	N-CA-C	5.68	117.15	111.07
1	fp	152	ASP	CA-CB-CG	-5.68	106.92	112.60
1	fw	173	ARG	CA-C-O	-5.68	114.49	120.63
1	fL	175	GLU	CA-C-O	5.68	127.35	120.81
1	g0	143	ARG	CA-C-O	-5.68	114.82	120.90
1	g2	87	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	g5	102	SER	O-C-N	-5.68	116.09	122.12
1	d	167	ARG	NE-CZ-NH2	-5.68	114.08	119.20
1	C	183	ASN	CA-CB-CG	-5.68	106.92	112.60
1	Q	119	THR	N-CA-C	-5.68	106.11	113.16
1	W	14	ALA	N-CA-C	5.68	118.47	110.23
1	gd	120	HIS	CB-CG-CD2	-5.68	123.81	131.20
1	gB	22	ALA	N-CA-C	5.68	118.41	111.82
1	gM	67	GLN	CG-CD-NE2	5.68	124.92	116.40
1	gW	30	LYS	N-CA-C	5.68	121.17	113.21
1	1H	102	SER	O-C-N	-5.68	115.28	122.27
1	hb	126	VAL	CA-C-N	5.68	126.13	119.94
1	hb	126	VAL	C-N-CA	5.68	126.13	119.94
1	hk	62	HIS	CA-C-N	5.68	130.34	120.68
1	hk	62	HIS	C-N-CA	5.68	130.34	120.68
1	ho	171	THR	CA-CB-OG1	5.68	118.12	109.60
1	hy	193	ASN	CA-CB-CG	-5.68	106.92	112.60
1	hB	148	THR	N-CA-C	-5.68	100.09	108.79
1	hE	32	PHE	CA-CB-CG	-5.68	108.12	113.80
1	hG	71	GLU	N-CA-C	5.68	117.47	111.28
1	1O	42	ALA	CA-C-N	5.68	127.89	120.28
1	1O	42	ALA	C-N-CA	5.68	127.89	120.28
1	1P	10	MET	CG-SD-CE	-5.68	88.40	100.90
1	io	200	THR	N-CA-C	5.68	118.20	111.33
1	ix	9	GLN	CA-C-N	5.68	130.47	120.87
1	ix	9	GLN	C-N-CA	5.68	130.47	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ix	126	VAL	N-CA-C	5.68	118.15	111.05
1	jA	62	HIS	CA-C-N	5.68	127.90	120.28
1	jA	62	HIS	C-N-CA	5.68	127.90	120.28
1	jA	183	ASN	CB-CG-OD1	-5.68	109.43	120.80
1	jC	191	VAL	N-CA-C	5.68	115.87	110.53
1	1Y	173	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
1	jU	74	ASN	CA-CB-CG	5.68	118.28	112.60
1	kg	21	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	kv	19	THR	CB-CA-C	-5.68	101.36	110.79
1	kG	145	TYR	N-CA-C	-5.68	106.39	113.55
1	24	74	ASN	CB-CG-ND2	5.68	124.92	116.40
1	kX	142	VAL	N-CA-C	5.68	117.10	110.62
1	l4	156	GLY	CA-C-N	5.68	125.04	118.85
1	l4	156	GLY	C-N-CA	5.68	125.04	118.85
1	l6	187	GLU	N-CA-C	5.68	117.55	111.36
1	ld	178	SER	N-CA-C	5.68	117.88	110.43
1	lh	83	LEU	N-CA-C	5.68	118.41	111.82
1	lm	139	ASN	CA-CB-CG	-5.68	106.92	112.60
1	29	130	TYR	CA-C-N	5.68	127.83	120.44
1	29	130	TYR	C-N-CA	5.68	127.83	120.44
1	lD	6	LEU	CA-C-O	5.68	126.58	119.59
1	lD	30	LYS	CG-CD-CE	5.68	124.37	111.30
1	2q	134	ILE	O-C-N	-5.68	116.32	121.89
1	2r	155	GLN	O-C-N	-5.68	115.82	122.81
1	2t	91	ILE	N-CA-CB	-5.68	102.81	110.54
1	2w	26	VAL	N-CA-C	5.68	116.42	110.62
1	2A	116	GLY	O-C-N	-5.68	116.73	122.19
1	2Q	115	ILE	N-CA-C	5.68	116.42	110.62
1	33	171	THR	CA-C-O	5.68	126.25	119.60
1	3h	209	ALA	CA-C-N	5.68	129.18	121.05
1	3h	209	ALA	C-N-CA	5.68	129.18	121.05
1	3x	58	THR	N-CA-C	5.68	119.83	113.01
1	3O	150	ILE	CA-CB-CG1	5.68	120.06	110.40
1	3R	197	ASP	CA-CB-CG	-5.68	106.92	112.60
1	4d	2	ILE	CA-C-N	5.68	130.24	123.19
1	4d	2	ILE	C-N-CA	5.68	130.24	123.19
1	4j	130	TYR	CA-C-O	-5.68	114.40	120.42
1	4x	141	ILE	N-CA-CB	5.68	117.20	110.55
1	4I	100	ARG	CA-C-O	-5.68	115.41	121.94
1	4R	120	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	50	132	ARG	N-CA-C	5.68	117.47	111.28
1	53	84	HIS	CA-C-O	-5.68	114.43	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	57	66	MET	N-CA-C	5.68	117.47	111.28
1	5l	14	ALA	O-C-N	-5.68	115.88	122.87
1	5q	133	TRP	CB-CG-CD1	5.68	135.43	126.90
1	5x	77	ALA	O-C-N	-5.68	116.22	122.07
1	5C	12	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	5E	155	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	5P	84	HIS	CB-CG-CD2	-5.68	123.81	131.20
1	5P	131	LYS	N-CA-C	5.68	119.02	111.75
1	5X	146	SER	O-C-N	-5.68	115.89	121.18
1	62	87	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	63	82	ARG	CG-CD-NE	-5.68	99.50	112.00
1	6h	29	GLU	N-CA-C	5.68	121.25	113.97
1	6k	122	PRO	N-CA-C	5.68	117.63	110.70
1	6l	18	ARG	NH1-CZ-NH2	5.68	126.69	119.30
1	6r	16	SER	N-CA-C	5.68	117.05	109.83
1	6r	71	GLU	CA-C-N	5.68	127.83	120.44
1	6r	71	GLU	C-N-CA	5.68	127.83	120.44
1	6v	120	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	6v	141	ILE	N-CA-CB	5.68	116.82	110.51
1	6S	53	ASN	CA-C-N	5.68	128.36	120.29
1	6S	53	ASN	C-N-CA	5.68	128.36	120.29
1	71	57	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	76	86	VAL	CA-C-O	5.68	127.52	121.04
1	78	213	GLU	CA-C-N	5.68	128.16	120.38
1	78	213	GLU	C-N-CA	5.68	128.16	120.38
1	7m	140	LYS	CG-CD-CE	5.68	124.37	111.30
1	7n	12	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	7W	136	LEU	N-CA-C	5.68	117.47	111.28
1	8c	120	HIS	CA-CB-CG	5.68	119.48	113.80
1	8F	50	GLN	N-CA-C	5.68	118.25	111.71
1	8G	139	ASN	CA-C-O	-5.68	113.43	119.97
1	8V	7	GLN	N-CA-C	-5.68	100.67	109.14
1	8W	39	MET	CA-C-N	5.68	128.36	120.29
1	8W	39	MET	C-N-CA	5.68	128.36	120.29
1	90	66	MET	N-CA-C	5.68	118.21	111.33
1	96	12	HIS	O-C-N	-5.68	116.70	123.06
1	98	112	GLN	CB-CG-CD	5.68	122.26	112.60
1	9d	138	LEU	N-CA-C	5.68	117.47	111.28
1	9o	28	GLU	CB-CG-CD	5.68	122.26	112.60
1	9q	185	MET	O-C-N	-5.68	116.22	122.07
1	9t	50	GLN	CA-C-N	5.68	127.83	120.44
1	9t	50	GLN	C-N-CA	5.68	127.83	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9x	53	ASN	O-C-N	-5.68	116.10	122.12
1	9y	226	HIS	O-C-N	-5.68	116.37	122.85
1	9B	153	ILE	N-CA-C	5.68	114.79	106.55
1	9E	37	ILE	O-C-N	-5.68	116.03	120.07
1	9E	158	LYS	N-CA-C	-5.68	105.08	113.61
1	Y	129	ILE	N-CA-C	5.68	116.42	110.62
1	9R	29	GLU	N-CA-C	5.68	118.41	111.82
1	9V	176	GLN	N-CA-C	-5.68	105.55	112.88
1	9Z	154	ARG	CA-C-O	5.68	128.64	120.51
1	ac	36	VAL	CA-C-N	5.68	123.82	120.24
1	ac	36	VAL	C-N-CA	5.68	123.82	120.24
1	ae	215	MET	N-CA-C	5.68	117.56	111.36
1	au	78	ALA	O-C-N	-5.68	116.22	122.07
1	aF	131	LYS	O-C-N	-5.68	116.10	122.12
1	aU	57	ASN	CA-CB-CG	-5.68	106.92	112.60
1	aX	91	ILE	CA-C-O	5.68	125.22	119.20
1	b4	123	PRO	O-C-N	-5.68	116.07	123.06
1	b6	83	LEU	N-CA-C	-5.68	104.70	111.69
1	bC	66	MET	O-C-N	-5.68	116.22	122.07
1	bN	144	MET	N-CA-C	5.68	118.25	111.71
1	bQ	72	THR	CB-CA-C	-5.68	101.19	110.85
1	c9	224	PRO	CA-C-O	-5.68	115.30	121.27
1	1d	152	ASP	CA-C-O	5.68	125.94	119.18
1	cs	209	ALA	N-CA-C	5.68	117.86	110.53
1	cy	52	LEU	CA-C-N	5.68	127.89	120.28
1	cy	52	LEU	C-N-CA	5.68	127.89	120.28
1	1g	33	SER	O-C-N	-5.68	116.54	121.71
1	1g	219	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	cM	84	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	cY	160	PRO	N-CA-C	5.68	124.18	112.47
1	d0	14	ALA	N-CA-C	5.68	118.51	110.50
1	d5	168	PHE	CA-CB-CG	-5.68	108.12	113.80
1	d6	107	THR	O-C-N	-5.68	115.28	122.27
1	d8	162	ARG	CA-C-O	-5.68	113.68	120.10
1	dq	25	LYS	N-CA-C	5.68	118.20	111.33
1	dy	146	SER	O-C-N	-5.68	114.48	120.68
1	dB	226	HIS	CA-CB-CG	5.68	119.48	113.80
1	dC	140	LYS	O-C-N	-5.68	116.10	122.12
1	dE	55	MET	CA-C-O	-5.68	114.82	120.90
1	dL	195	ASN	CA-C-O	-5.68	114.27	120.69
1	dM	215	MET	CA-C-O	5.68	126.57	120.55
1	dU	206	GLY	CA-C-O	-5.68	113.39	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dW	18	ARG	CA-C-N	5.68	128.21	120.54
1	dW	18	ARG	C-N-CA	5.68	128.21	120.54
1	dW	170	LYS	CA-C-O	5.68	126.77	120.63
1	dX	69	LEU	CA-C-N	5.68	128.21	120.54
1	dX	69	LEU	C-N-CA	5.68	128.21	120.54
1	ef	167	ARG	CA-C-N	5.68	128.21	120.54
1	ef	167	ARG	C-N-CA	5.68	128.21	120.54
1	ej	74	ASN	OD1-CG-ND2	5.68	128.28	122.60
1	ek	33	SER	CA-C-N	5.68	126.94	119.84
1	ek	33	SER	C-N-CA	5.68	126.94	119.84
1	es	165	VAL	O-C-N	-5.68	115.98	121.83
1	eu	39	MET	N-CA-C	5.68	117.47	111.28
1	ev	115	ILE	CA-CB-CG1	5.68	120.06	110.40
1	ez	199	LYS	CA-C-N	5.68	128.21	120.54
1	ez	199	LYS	C-N-CA	5.68	128.21	120.54
1	eB	16	SER	CA-C-N	5.68	126.94	119.84
1	eB	16	SER	C-N-CA	5.68	126.94	119.84
1	eD	99	PRO	O-C-N	-5.68	117.01	123.03
1	eI	125	PRO	N-CA-CB	5.68	109.22	103.25
1	fe	226	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	fG	87	HIS	CA-C-O	5.68	127.34	120.81
1	fN	109	SER	N-CA-CB	5.68	119.68	110.42
1	fT	134	ILE	CB-CA-C	-5.68	104.70	111.97
1	fU	188	THR	CA-CB-CG2	5.68	120.16	110.50
1	i	217	ALA	N-CA-C	5.68	117.15	111.07
1	j	19	THR	O-C-N	-5.68	115.95	122.09
1	1	108	THR	N-CA-CB	-5.68	102.15	111.01
1	B	154	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	F	63	GLN	N-CA-C	5.68	119.47	112.54
1	V	86	VAL	N-CA-C	5.68	121.16	109.34
1	V	223	GLY	CA-C-N	5.68	126.94	119.84
1	V	223	GLY	C-N-CA	5.68	126.94	119.84
1	7	46	GLY	O-C-N	-5.68	114.98	122.42
1	gu	16	SER	N-CA-C	5.68	118.13	110.29
1	h2	115	ILE	CA-C-N	5.68	126.25	120.00
1	h2	115	ILE	C-N-CA	5.68	126.25	120.00
1	hg	217	ALA	CA-C-O	5.68	127.75	121.56
1	hn	51	ASP	CA-CB-CG	-5.68	106.92	112.60
1	hI	164	TYR	CB-CA-C	5.68	119.80	110.88
1	hO	160	PRO	CA-C-N	5.68	127.89	120.28
1	hO	160	PRO	C-N-CA	5.68	127.89	120.28
1	hP	71	GLU	CA-C-N	5.68	128.36	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hP	71	GLU	C-N-CA	5.68	128.36	120.29
1	ij	25	LYS	N-CA-C	5.68	117.95	111.02
1	is	230	VAL	N-CA-C	-5.68	107.45	112.90
1	iv	153	ILE	CA-CB-CG1	5.68	120.06	110.40
1	iU	201	ILE	N-CA-CB	5.68	117.20	110.55
1	jh	88	ALA	N-CA-CB	5.68	118.41	109.83
1	jh	210	THR	O-C-N	-5.68	116.31	122.79
1	jv	166	ASP	CA-CB-CG	5.68	118.28	112.60
1	1W	124	ILE	N-CA-CB	5.68	115.36	110.08
1	jQ	133	TRP	N-CA-CB	5.68	118.57	110.16
1	kk	141	ILE	CA-C-N	5.68	127.72	120.56
1	kk	141	ILE	C-N-CA	5.68	127.72	120.56
1	ky	87	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	kO	55	MET	N-CA-C	5.68	117.93	111.11
1	kW	87	HIS	N-CA-CB	5.68	118.35	110.17
1	kX	135	ILE	CA-C-N	5.68	128.16	120.38
1	kX	135	ILE	C-N-CA	5.68	128.16	120.38
1	kZ	187	GLU	CB-CG-CD	5.68	122.26	112.60
1	l3	155	GLN	CG-CD-NE2	5.68	124.92	116.40
1	lg	9	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	lE	4	GLN	CA-C-N	5.68	127.89	120.28
1	lE	4	GLN	C-N-CA	5.68	127.89	120.28
1	2f	104	ILE	O-C-N	-5.68	116.36	121.87
1	2v	203	LYS	N-CA-C	5.68	117.93	111.11
1	2y	85	PRO	CA-C-N	5.68	132.19	121.97
1	2y	85	PRO	C-N-CA	5.68	132.19	121.97
1	2H	57	ASN	CA-CB-CG	-5.68	106.92	112.60
1	2T	10	MET	CG-SD-CE	-5.68	88.40	100.90
1	2V	33	SER	CA-C-O	-5.68	114.11	120.25
1	3d	54	THR	CA-C-O	-5.68	114.82	120.90
1	3l	221	VAL	O-C-N	-5.68	117.07	122.98
1	3A	34	PRO	N-CA-CB	-5.68	98.07	103.41
1	3L	192	GLN	CA-C-O	5.68	126.52	120.10
1	40	198	CYS	N-CA-C	-5.68	106.48	113.41
1	4u	139	ASN	CA-CB-CG	-5.68	106.92	112.60
1	4v	200	THR	O-C-N	-5.68	116.18	122.09
1	5K	175	GLU	O-C-N	-5.68	115.88	122.87
1	5P	47	ALA	O-C-N	-5.68	115.88	122.87
1	5Y	201	ILE	CA-C-N	5.68	127.89	120.28
1	5Y	201	ILE	C-N-CA	5.68	127.89	120.28
1	69	179	GLN	N-CA-C	5.68	118.24	111.71
1	6n	41	SER	N-CA-CB	5.68	118.47	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6N	8	GLY	CA-C-N	5.68	130.19	122.07
1	6N	8	GLY	C-N-CA	5.68	130.19	122.07
1	6W	206	GLY	CA-C-O	-5.68	113.40	121.52
1	7d	210	THR	N-CA-CB	5.68	119.08	110.45
1	7A	163	ASP	CB-CA-C	5.68	117.87	109.29
1	83	35	GLU	CB-CG-CD	5.68	122.26	112.60
1	9W	34	PRO	O-C-N	-5.68	114.57	122.30
1	a4	44	SER	CA-C-N	5.68	132.39	121.54
1	a4	44	SER	C-N-CA	5.68	132.39	121.54
1	ax	54	THR	O-C-N	-5.68	115.67	122.15
1	aB	188	THR	N-CA-CB	5.68	120.09	110.49
1	aH	104	ILE	CA-C-O	-5.68	115.04	120.95
1	b5	172	LEU	N-CA-C	5.68	118.20	111.33
1	br	148	THR	CA-CB-OG1	5.68	118.12	109.60
1	br	157	PRO	N-CD-CG	5.68	111.72	103.20
1	bO	143	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	c7	207	PRO	CA-C-N	5.68	128.94	120.31
1	c7	207	PRO	C-N-CA	5.68	128.94	120.31
1	ce	7	GLN	CA-C-N	5.68	129.33	121.26
1	ce	7	GLN	C-N-CA	5.68	129.33	121.26
1	df	80	TRP	CB-CG-CD1	-5.68	118.38	126.90
1	dy	57	ASN	CB-CG-ND2	-5.68	107.88	116.40
1	dN	51	ASP	O-C-N	-5.68	116.10	122.12
1	e6	208	ALA	O-C-N	-5.68	115.52	122.34
1	ei	59	VAL	O-C-N	-5.68	116.28	122.64
1	f1	37	ILE	N-CA-CB	5.68	114.33	110.52
1	f3	214	MET	CA-C-N	5.68	127.89	120.28
1	f3	214	MET	C-N-CA	5.68	127.89	120.28
1	f9	176	GLN	CB-CA-C	-5.68	104.25	111.86
1	fd	183	ASN	CA-C-O	5.68	126.52	120.10
1	1w	116	GLY	CA-C-N	5.68	127.89	120.28
1	1w	116	GLY	C-N-CA	5.68	127.89	120.28
1	fD	4	GLN	CA-C-O	-5.68	114.94	121.47
1	fG	79	GLU	N-CA-C	5.68	118.41	111.82
1	fP	66	MET	N-CA-C	5.68	118.20	111.33
1	f	195	ASN	CA-C-N	5.68	126.06	119.47
1	f	195	ASN	C-N-CA	5.68	126.06	119.47
1	5	205	LEU	CA-C-O	-5.68	115.53	121.55
1	6	117	TRP	N-CA-C	5.68	117.47	111.28
1	gr	44	SER	CA-C-N	5.68	132.39	121.54
1	gr	44	SER	C-N-CA	5.68	132.39	121.54
1	gI	224	PRO	N-CA-CB	5.68	108.30	103.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gT	92	GLU	N-CA-CB	5.68	117.67	110.23
1	1H	72	THR	N-CA-C	-5.68	105.09	111.28
1	hf	175	GLU	CA-C-O	-5.68	112.89	118.97
1	hz	29	GLU	N-CA-C	-5.68	106.34	113.72
1	hz	229	ARG	O-C-N	-5.68	116.24	123.06
1	hD	65	ALA	N-CA-C	5.68	117.15	111.07
1	hD	68	MET	CB-CA-C	-5.68	101.36	110.79
1	hL	48	THR	N-CA-CB	5.68	117.71	110.04
1	if	170	LYS	CA-C-N	5.68	128.36	120.29
1	if	170	LYS	C-N-CA	5.68	128.36	120.29
1	iw	139	ASN	CA-C-O	5.68	126.57	120.55
1	iY	60	GLY	CA-C-N	5.68	128.44	121.06
1	iY	60	GLY	C-N-CA	5.68	128.44	121.06
1	j0	115	ILE	N-CA-C	-5.68	104.98	110.72
1	j6	178	SER	O-C-N	-5.68	116.04	122.97
1	ja	36	VAL	CA-C-N	5.68	132.64	122.13
1	ja	36	VAL	C-N-CA	5.68	132.64	122.13
1	ja	119	THR	N-CA-C	-5.68	105.69	113.30
1	jc	132	ARG	CA-C-N	5.68	127.89	120.28
1	jc	132	ARG	C-N-CA	5.68	127.89	120.28
1	jg	82	ARG	N-CA-C	5.68	118.20	111.33
1	ji	70	LYS	CA-C-O	5.68	126.98	120.90
1	jj	203	LYS	CG-CD-CE	5.68	124.36	111.30
1	jn	57	ASN	N-CA-C	5.68	118.24	111.71
1	jF	90	PRO	CB-CA-C	5.68	118.79	111.46
1	jF	121	ASN	N-CA-C	5.68	118.50	109.64
1	jJ	82	ARG	NE-CZ-NH2	-5.68	114.09	119.20
1	jL	78	ALA	CA-C-O	5.68	126.98	120.90
1	jN	12	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	jO	117	TRP	CA-C-N	5.68	128.94	120.31
1	jO	117	TRP	C-N-CA	5.68	128.94	120.31
1	1Y	167	ARG	CA-C-N	5.68	128.21	120.54
1	1Y	167	ARG	C-N-CA	5.68	128.21	120.54
1	kq	72	THR	N-CA-C	5.68	117.47	111.28
1	ku	176	GLN	CB-CG-CD	5.68	122.25	112.60
1	kZ	155	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	l4	86	VAL	CB-CA-C	5.68	117.07	110.88
1	lb	100	ARG	NH1-CZ-NH2	5.68	126.68	119.30
1	lm	118	MET	O-C-N	-5.68	116.10	122.12
1	2v	189	LEU	N-CA-C	5.68	117.93	111.11
1	2F	195	ASN	CB-CA-C	5.68	118.40	109.37
1	2G	99	PRO	O-C-N	-5.68	115.97	123.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	30	205	LEU	CA-C-O	5.68	126.37	119.38
1	3f	7	GLN	CA-C-O	5.68	126.16	119.06
1	3q	165	VAL	CA-C-N	5.68	127.89	120.28
1	3q	165	VAL	C-N-CA	5.68	127.89	120.28
1	3w	80	TRP	CE3-CZ3-CH2	-5.68	113.72	121.10
1	3G	84	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	3N	58	THR	CA-C-N	5.68	129.50	121.66
1	3N	58	THR	C-N-CA	5.68	129.50	121.66
1	3Z	130	TYR	CA-CB-CG	5.68	124.12	113.90
1	46	50	GLN	OE1-CD-NE2	5.68	128.28	122.60
1	4i	43	LEU	CA-C-N	5.68	127.89	120.28
1	4i	43	LEU	C-N-CA	5.68	127.89	120.28
1	4r	12	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	4t	25	LYS	CA-C-O	5.68	126.49	119.79
1	4w	162	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	4J	166	ASP	CA-C-O	5.68	126.57	120.55
1	4N	122	PRO	CA-C-N	5.68	125.69	119.90
1	4N	122	PRO	C-N-CA	5.68	125.69	119.90
1	54	62	HIS	CG-CD2-NE2	-5.68	101.52	107.20
1	57	18	ARG	CD-NE-CZ	5.68	132.35	124.40
1	57	54	THR	N-CA-C	-5.68	105.01	111.14
1	5e	28	GLU	O-C-N	-5.68	115.68	122.15
1	5f	119	THR	N-CA-CB	5.68	119.13	110.44
1	5j	54	THR	CA-C-O	-5.68	114.53	120.55
1	5k	97	ARG	O-C-N	-5.68	115.83	122.81
1	5x	189	LEU	N-CA-C	5.68	118.20	111.33
1	5D	54	THR	N-CA-CB	5.68	118.47	110.12
1	5F	104	ILE	O-C-N	-5.68	116.36	121.87
1	5M	193	ASN	CA-C-N	5.68	128.78	120.71
1	5M	193	ASN	C-N-CA	5.68	128.78	120.71
1	6C	198	CYS	CA-C-N	5.68	128.46	120.28
1	6C	198	CYS	C-N-CA	5.68	128.46	120.28
1	6E	195	ASN	CA-C-N	5.68	125.80	119.32
1	6E	195	ASN	C-N-CA	5.68	125.80	119.32
1	6J	28	GLU	N-CA-C	5.68	117.47	111.28
1	6R	32	PHE	N-CA-C	5.68	119.47	111.52
1	71	50	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	75	12	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	75	181	VAL	CA-C-N	5.68	127.89	120.28
1	75	181	VAL	C-N-CA	5.68	127.89	120.28
1	7g	201	ILE	CA-C-O	5.68	126.87	120.85
1	7n	213	GLU	N-CA-C	5.68	117.15	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7W	10	MET	O-C-N	-5.68	115.80	122.96
1	7Y	55	MET	CG-SD-CE	5.68	113.40	100.90
1	7Z	212	GLU	O-C-N	-5.68	116.18	122.09
1	83	97	ARG	N-CA-C	5.68	118.47	110.23
1	85	83	LEU	CA-C-O	5.68	126.44	120.42
1	89	80	TRP	CA-C-N	5.68	127.89	120.28
1	89	80	TRP	C-N-CA	5.68	127.89	120.28
1	89	185	MET	CA-C-N	5.68	128.46	120.28
1	89	185	MET	C-N-CA	5.68	128.46	120.28
1	8h	105	ALA	N-CA-C	5.68	117.55	111.36
1	8p	53	ASN	N-CA-CB	5.68	118.47	110.12
1	8u	155	GLN	O-C-N	-5.68	115.96	122.89
1	8w	127	GLY	CA-C-N	5.68	127.89	120.28
1	8w	127	GLY	C-N-CA	5.68	127.89	120.28
1	8A	31	ALA	O-C-N	-5.68	116.18	122.09
1	8A	146	SER	O-C-N	-5.68	115.76	121.27
1	8V	195	ASN	N-CA-C	5.68	118.53	110.24
1	9d	18	ARG	NE-CZ-NH2	5.68	124.31	119.20
1	9B	85	PRO	CB-CA-C	5.68	117.75	111.56
1	9M	32	PHE	CA-CB-CG	-5.68	108.12	113.80
1	9Q	120	HIS	CA-CB-CG	5.68	119.48	113.80
1	ak	6	LEU	N-CA-C	-5.68	106.35	113.28
1	aq	183	ASN	CA-CB-CG	-5.68	106.92	112.60
1	aZ	206	GLY	N-CA-C	5.68	123.92	112.34
1	b8	131	LYS	O-C-N	-5.68	116.10	122.12
1	be	166	ASP	O-C-N	-5.68	116.18	122.09
1	bl	155	GLN	CB-CA-C	5.68	119.79	109.62
1	bs	98	GLU	CA-C-O	-5.68	114.78	120.63
1	bu	18	ARG	CB-CG-CD	5.68	124.36	111.30
1	bw	55	MET	CA-C-N	5.68	127.82	120.44
1	bw	55	MET	C-N-CA	5.68	127.82	120.44
1	bB	132	ARG	CB-CG-CD	-5.68	98.24	111.30
1	bF	174	ALA	CA-C-N	5.68	127.82	120.44
1	bF	174	ALA	C-N-CA	5.68	127.82	120.44
1	bI	221	VAL	CA-CB-CG2	5.68	120.05	110.40
1	c2	155	GLN	CB-CA-C	-5.68	99.32	109.71
1	1c	168	PHE	CB-CA-C	5.68	119.80	110.88
1	c8	130	TYR	CB-CA-C	5.68	119.80	110.88
1	cg	173	ARG	CA-C-O	5.68	126.76	120.63
1	cj	83	LEU	N-CA-CB	5.68	119.30	110.44
1	ck	77	ALA	CA-C-N	5.68	127.89	120.28
1	ck	77	ALA	C-N-CA	5.68	127.89	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cr	144	MET	CB-CA-C	5.68	121.86	109.99
1	cK	101	GLY	N-CA-C	-5.68	105.50	112.77
1	cP	83	LEU	CA-C-O	5.68	125.83	119.41
1	cQ	73	ILE	CA-C-N	5.68	128.16	120.44
1	cQ	73	ILE	C-N-CA	5.68	128.16	120.44
1	cR	12	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	cV	183	ASN	N-CA-C	5.68	118.24	111.71
1	d2	196	PRO	N-CA-C	5.68	121.32	113.65
1	d7	102	SER	O-C-N	-5.68	114.82	122.43
1	de	89	GLY	CA-C-N	5.68	126.94	119.84
1	de	89	GLY	C-N-CA	5.68	126.94	119.84
1	dr	22	ALA	CA-C-O	5.68	126.78	120.82
1	dx	39	MET	CG-SD-CE	-5.68	88.40	100.90
1	dy	25	LYS	CA-C-O	5.68	126.98	120.90
1	dC	60	GLY	N-CA-C	5.68	120.04	112.77
1	dD	179	GLN	N-CA-C	5.68	118.20	111.33
1	dK	210	THR	CA-C-N	5.68	127.82	120.44
1	dK	210	THR	C-N-CA	5.68	127.82	120.44
1	1n	18	ARG	NE-CZ-NH1	-5.68	115.82	121.50
1	dT	48	THR	CA-CB-OG1	5.68	118.12	109.60
1	dZ	177	ALA	CA-C-N	5.68	132.39	121.54
1	dZ	177	ALA	C-N-CA	5.68	132.39	121.54
1	ei	97	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	ek	127	GLY	CA-C-O	-5.68	115.23	120.80
1	em	24	VAL	CA-C-O	5.68	126.86	120.95
1	eL	139	ASN	CA-C-N	5.68	127.82	120.44
1	eL	139	ASN	C-N-CA	5.68	127.82	120.44
1	eT	92	GLU	O-C-N	-5.68	114.43	121.64
1	eX	167	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	eZ	181	VAL	CB-CA-C	-5.68	104.47	112.14
1	f6	72	THR	CA-C-O	5.68	126.78	120.82
1	fa	227	LYS	CA-C-N	5.68	128.78	120.71
1	fa	227	LYS	C-N-CA	5.68	128.78	120.71
1	fd	57	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	fd	139	ASN	N-CA-CB	-5.68	101.77	110.12
1	fx	84	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	fJ	114	GLN	CA-C-N	5.68	127.93	120.60
1	fJ	114	GLN	C-N-CA	5.68	127.93	120.60
1	fK	136	LEU	CA-C-O	-5.68	114.40	120.42
1	fQ	136	LEU	CA-C-N	5.68	126.24	119.94
1	fQ	136	LEU	C-N-CA	5.68	126.24	119.94
1	fT	58	THR	O-C-N	-5.68	116.10	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	220	GLY	CA-C-N	5.68	127.72	120.56
1	fX	220	GLY	C-N-CA	5.68	127.72	120.56
1	1A	64	ALA	N-CA-C	5.68	117.47	111.28
1	m	212	GLU	CA-C-O	5.68	126.50	119.97
1	W	148	THR	CA-CB-CG2	5.68	120.16	110.50
1	8	152	ASP	N-CA-CB	-5.68	101.83	110.92
1	8	218	CYS	N-CA-CB	-5.68	102.07	110.53
1	ga	49	PRO	N-CA-CB	5.68	109.21	103.25
1	gB	50	GLN	CA-C-N	5.68	127.89	120.28
1	gB	50	GLN	C-N-CA	5.68	127.89	120.28
1	gO	190	LEU	CA-C-N	5.68	128.24	120.46
1	gO	190	LEU	C-N-CA	5.68	128.24	120.46
1	h2	170	LYS	CA-C-N	5.68	127.89	120.28
1	h2	170	LYS	C-N-CA	5.68	127.89	120.28
1	h9	143	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
1	hd	197	ASP	CA-C-N	5.68	128.94	120.31
1	hd	197	ASP	C-N-CA	5.68	128.94	120.31
1	hQ	84	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	ic	198	CYS	CA-C-O	5.68	126.55	120.70
1	iY	53	ASN	CA-C-N	5.68	127.82	120.44
1	iY	53	ASN	C-N-CA	5.68	127.82	120.44
1	j1	68	MET	CA-C-N	5.68	128.15	120.65
1	j1	68	MET	C-N-CA	5.68	128.15	120.65
1	jl	49	PRO	CA-C-N	5.68	127.82	120.44
1	jl	49	PRO	C-N-CA	5.68	127.82	120.44
1	jG	58	THR	N-CA-C	5.68	117.47	111.28
1	jG	154	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	jN	51	ASP	O-C-N	-5.68	115.96	122.09
1	k1	80	TRP	CB-CA-C	-5.68	101.03	110.68
1	kL	128	GLU	O-C-N	-5.68	115.68	122.15
1	kS	76	GLU	CB-CG-CD	5.68	122.25	112.60
1	lb	219	GLN	CA-C-O	-5.68	114.45	120.92
1	lu	18	ARG	CA-C-O	-5.68	114.53	120.55
1	lH	74	ASN	CA-C-O	-5.68	114.53	120.55
1	2v	14	ALA	CA-C-N	5.68	128.98	120.69
1	2v	14	ALA	C-N-CA	5.68	128.98	120.69
1	2E	132	ARG	CA-C-O	5.68	126.44	120.42
1	3o	165	VAL	CB-CA-C	-5.68	104.38	112.22
1	41	13	GLN	O-C-N	-5.68	116.63	123.27
1	4k	58	THR	N-CA-CB	5.68	118.97	110.22
1	4r	22	ALA	N-CA-CB	-5.68	101.76	110.16
1	4z	117	TRP	CG-CD2-CE3	-5.68	128.22	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4R	172	LEU	N-CA-C	5.68	119.31	112.38
1	5e	109	SER	N-CA-C	5.68	118.03	109.23
1	5g	75	GLU	N-CA-C	5.68	117.14	111.07
1	5A	158	LYS	N-CA-C	-5.68	105.56	112.88
1	5C	27	VAL	O-C-N	-5.68	116.36	121.87
1	6x	23	TRP	N-CA-C	5.68	117.47	111.28
1	6Z	40	PHE	CA-CB-CG	-5.68	108.12	113.80
1	70	136	LEU	CA-C-N	5.68	126.24	119.94
1	70	136	LEU	C-N-CA	5.68	126.24	119.94
1	79	174	ALA	N-CA-C	5.68	118.41	111.82
1	7o	78	ALA	CA-C-N	5.68	128.16	120.38
1	7o	78	ALA	C-N-CA	5.68	128.16	120.38
1	7t	9	GLN	CA-C-N	5.68	129.77	121.31
1	7t	9	GLN	C-N-CA	5.68	129.77	121.31
1	7I	43	LEU	CD1-CG-CD2	-5.68	98.31	110.80
1	7R	179	GLN	CA-C-N	5.68	127.89	120.28
1	7R	179	GLN	C-N-CA	5.68	127.89	120.28
1	80	51	ASP	CA-CB-CG	5.68	118.28	112.60
1	84	142	VAL	O-C-N	-5.68	116.35	121.91
1	8k	171	THR	CA-C-O	5.68	126.24	119.60
1	95	64	ALA	O-C-N	-5.68	115.68	122.15
1	9k	47	ALA	CA-C-O	5.68	127.52	121.05
1	9U	142	VAL	CA-CB-CG1	5.68	120.05	110.40
1	a7	67	GLN	CA-C-O	-5.68	114.53	120.55
1	ax	65	ALA	N-CA-CB	-5.68	101.54	110.06
1	aZ	215	MET	O-C-N	-5.68	116.10	122.12
1	17	9	GLN	CA-C-N	5.68	129.32	120.75
1	17	9	GLN	C-N-CA	5.68	129.32	120.75
1	bs	222	GLY	CA-C-N	5.68	130.78	121.87
1	bs	222	GLY	C-N-CA	5.68	130.78	121.87
1	bZ	117	TRP	CB-CG-CD2	-5.68	118.85	126.80
1	c1	172	LEU	CA-C-O	5.68	126.20	119.56
1	cl	171	THR	N-CA-C	5.68	117.47	111.28
1	cr	31	ALA	N-CA-C	5.68	119.26	111.54
1	1l	73	ILE	CA-C-N	5.68	128.16	120.44
1	1l	73	ILE	C-N-CA	5.68	128.16	120.44
1	dA	23	TRP	CA-C-N	5.68	127.71	120.56
1	dA	23	TRP	C-N-CA	5.68	127.71	120.56
1	dE	1	PRO	CA-N-CD	-5.68	104.05	112.00
1	dI	67	GLN	CA-C-N	5.68	127.89	120.28
1	dI	67	GLN	C-N-CA	5.68	127.89	120.28
1	1n	60	GLY	CA-C-N	5.68	129.79	121.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1n	60	GLY	C-N-CA	5.68	129.79	121.67
1	e9	139	ASN	CA-C-O	5.68	126.78	120.82
1	eR	74	ASN	OD1-CG-ND2	-5.68	116.92	122.60
1	1x	58	THR	N-CA-CB	5.68	118.47	110.12
1	fP	99	PRO	CB-CA-C	5.68	116.57	111.40
1	fR	212	GLU	O-C-N	-5.68	116.10	122.12
1	fX	120	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	1A	101	GLY	CA-C-O	-5.68	115.20	121.05
1	1A	219	GLN	N-CA-CB	5.68	119.12	109.87
1	fY	88	ALA	N-CA-CB	5.68	118.32	109.97
1	k	69	LEU	N-CA-CB	-5.68	101.78	110.01
1	k	119	THR	CA-C-O	5.68	126.18	119.48
1	o	4	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	I	193	ASN	CA-CB-CG	-5.68	106.92	112.60
1	R	172	LEU	CA-C-N	5.68	128.35	120.29
1	R	172	LEU	C-N-CA	5.68	128.35	120.29
1	R	174	ALA	N-CA-CB	5.68	118.24	110.01
1	U	103	ASP	CA-C-N	5.68	128.48	120.42
1	U	103	ASP	C-N-CA	5.68	128.48	120.42
1	gp	66	MET	O-C-N	-5.68	115.68	122.15
1	gA	110	THR	CA-CB-OG1	5.68	118.11	109.60
1	gA	229	ARG	NE-CZ-NH2	-5.68	114.09	119.20
1	gX	218	CYS	N-CA-CB	5.68	120.08	110.49
1	h0	15	ILE	CA-C-O	5.68	127.32	120.85
1	1H	82	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
1	ha	62	HIS	ND1-CG-CD2	5.68	111.78	106.10
1	hg	161	PHE	CA-C-N	5.68	128.16	120.38
1	hg	161	PHE	C-N-CA	5.68	128.16	120.38
1	hE	110	THR	N-CA-CB	5.68	119.05	110.42
1	hN	3	VAL	N-CA-CB	-5.68	102.14	111.45
1	hS	118	MET	N-CA-C	-5.68	105.85	112.89
1	1M	168	PHE	N-CA-CB	-5.68	101.78	110.01
1	i7	150	ILE	N-CA-CB	-5.68	104.78	112.16
1	i8	30	LYS	O-C-N	-5.68	115.32	122.19
1	i8	208	ALA	CB-CA-C	-5.68	101.88	111.02
1	ik	159	GLU	CA-C-O	5.68	126.02	120.23
1	iu	186	THR	CA-C-O	-5.68	115.04	121.00
1	iL	12	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	iS	34	PRO	N-CA-C	5.68	121.45	114.35
1	iT	84	HIS	CG-CD2-NE2	5.68	112.88	107.20
1	iW	137	GLY	CA-C-N	5.68	128.35	120.29
1	iW	137	GLY	C-N-CA	5.68	128.35	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j1	168	PHE	CB-CG-CD1	-5.68	111.05	120.70
1	1U	62	HIS	ND1-CG-CD2	5.68	111.78	106.10
1	jd	75	GLU	N-CA-C	5.68	117.14	111.07
1	1V	171	THR	CA-C-N	5.68	127.82	120.44
1	1V	171	THR	C-N-CA	5.68	127.82	120.44
1	jm	120	HIS	O-C-N	-5.68	116.38	122.85
1	jy	148	THR	CA-C-O	5.68	127.41	120.60
1	jy	221	VAL	O-C-N	-5.68	116.50	123.09
1	jz	128	GLU	N-CA-C	5.68	117.47	111.28
1	jA	173	ARG	NE-CZ-NH2	-5.68	114.09	119.20
1	jC	204	ALA	O-C-N	-5.68	115.29	122.27
1	jD	98	GLU	CB-CA-C	5.68	119.19	109.82
1	jQ	38	PRO	N-CA-CB	5.68	109.57	103.33
1	jS	142	VAL	N-CA-C	5.68	116.32	110.36
1	jT	42	ALA	CA-C-N	5.68	127.89	120.28
1	jT	42	ALA	C-N-CA	5.68	127.89	120.28
1	jW	162	ARG	N-CA-C	5.68	117.92	111.11
1	k2	33	SER	O-C-N	-5.68	116.54	121.71
1	k3	109	SER	CB-CA-C	5.68	120.10	109.71
1	k7	48	THR	CB-CA-C	5.68	117.63	109.11
1	20	6	LEU	CA-C-N	5.68	130.41	121.56
1	20	6	LEU	C-N-CA	5.68	130.41	121.56
1	kj	101	GLY	N-CA-C	5.68	119.51	112.64
1	kD	132	ARG	CB-CG-CD	5.68	124.35	111.30
1	kF	27	VAL	N-CA-C	5.68	116.41	110.62
1	kF	85	PRO	O-C-N	-5.68	114.98	122.64
1	27	148	THR	N-CA-C	5.68	119.17	110.20
1	lt	151	LEU	O-C-N	-5.68	114.82	122.43
1	2c	127	GLY	O-C-N	-5.68	116.74	122.19
1	2A	1	PRO	CA-C-N	5.68	132.19	121.97
1	2A	1	PRO	C-N-CA	5.68	132.19	121.97
1	2L	27	VAL	N-CA-CB	-5.68	102.82	110.54
1	2L	188	THR	CA-C-N	5.68	127.89	120.28
1	2L	188	THR	C-N-CA	5.68	127.89	120.28
1	2P	189	LEU	N-CA-C	5.68	120.74	111.37
1	37	141	ILE	O-C-N	5.68	127.62	121.94
1	3c	63	GLN	N-CA-C	5.68	118.41	111.82
1	3F	150	ILE	N-CA-C	5.68	119.00	111.17
1	3Z	166	ASP	N-CA-C	5.68	117.14	111.07
1	45	157	PRO	N-CA-C	5.68	121.01	113.57
1	4n	138	LEU	CA-C-N	5.68	127.82	120.44
1	4n	138	LEU	C-N-CA	5.68	127.82	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4s	171	THR	CA-C-N	5.68	127.89	120.28
1	4s	171	THR	C-N-CA	5.68	127.89	120.28
1	4H	68	MET	O-C-N	-5.68	116.10	122.12
1	4I	141	ILE	CA-C-N	5.68	128.24	120.46
1	4I	141	ILE	C-N-CA	5.68	128.24	120.46
1	4O	62	HIS	CA-C-N	5.68	127.89	120.28
1	4O	62	HIS	C-N-CA	5.68	127.89	120.28
1	4V	5	ASN	N-CA-CB	-5.68	102.40	111.43
1	4V	34	PRO	O-C-N	-5.68	114.63	122.24
1	57	120	HIS	CA-CB-CG	5.68	119.48	113.80
1	5i	35	GLU	CA-C-O	5.68	126.52	120.10
1	5p	227	LYS	CA-C-N	5.68	129.17	120.82
1	5p	227	LYS	C-N-CA	5.68	129.17	120.82
1	5s	120	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	5u	124	ILE	N-CA-C	-5.68	101.70	107.89
1	5E	182	LYS	N-CA-C	5.68	117.47	111.28
1	6G	167	ARG	NE-CZ-NH2	-5.68	114.09	119.20
1	6H	60	GLY	CA-C-N	5.68	128.15	122.30
1	6H	60	GLY	C-N-CA	5.68	128.15	122.30
1	6J	132	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	6R	118	MET	CA-C-O	5.68	126.57	120.55
1	70	124	ILE	CA-C-N	5.68	126.94	119.84
1	70	124	ILE	C-N-CA	5.68	126.94	119.84
1	75	177	ALA	N-CA-CB	5.68	121.29	111.13
1	7l	219	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	7n	179	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	7p	167	ARG	CA-C-N	5.68	127.82	120.44
1	7p	167	ARG	C-N-CA	5.68	127.82	120.44
1	7u	120	HIS	ND1-CE1-NE2	5.68	114.08	108.40
1	7v	25	LYS	O-C-N	-5.68	116.10	122.12
1	7y	94	GLY	CA-C-N	5.68	128.35	120.29
1	7y	94	GLY	C-N-CA	5.68	128.35	120.29
1	7A	207	PRO	N-CA-CB	-5.68	97.51	103.19
1	7B	173	ARG	N-CA-C	5.68	117.55	111.36
1	7Y	219	GLN	O-C-N	-5.68	116.86	123.27
1	84	165	VAL	CA-C-N	5.68	127.89	120.28
1	84	165	VAL	C-N-CA	5.68	127.89	120.28
1	8k	145	TYR	O-C-N	-5.68	115.37	122.35
1	8m	199	LYS	O-C-N	-5.68	116.10	122.12
1	8v	2	ILE	N-CA-C	5.68	117.80	109.63
1	8E	214	MET	N-CA-C	5.68	117.47	111.28
1	8G	179	GLN	O-C-N	-5.68	115.29	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8J	54	THR	O-C-N	-5.68	116.19	122.09
1	90	115	ILE	O-C-N	5.68	127.60	121.87
1	93	38	PRO	N-CA-CB	5.68	109.80	103.44
1	96	98	GLU	CA-C-O	-5.68	114.12	120.25
1	9e	89	GLY	CA-C-N	5.68	126.94	119.84
1	9e	89	GLY	C-N-CA	5.68	126.94	119.84
1	9f	173	ARG	N-CA-C	5.68	118.41	111.82
1	9i	158	LYS	CA-C-O	5.68	125.44	119.03
1	9w	168	PHE	O-C-N	-5.68	116.22	122.07
1	9z	221	VAL	CA-CB-CG1	5.68	120.05	110.40
1	9H	71	GLU	N-CA-CB	5.68	118.46	110.12
1	9M	200	THR	N-CA-CB	5.68	118.30	110.07
1	9U	22	ALA	O-C-N	-5.68	115.29	122.27
1	9V	105	ALA	CA-C-N	5.68	130.65	120.77
1	9V	105	ALA	C-N-CA	5.68	130.65	120.77
1	9Z	42	ALA	CA-C-N	5.68	127.89	120.28
1	9Z	42	ALA	C-N-CA	5.68	127.89	120.28
1	ak	86	VAL	O-C-N	-5.68	117.07	123.03
1	an	146	SER	CB-CA-C	-5.68	104.55	110.17
1	as	84	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	at	227	LYS	O-C-N	-5.68	117.12	123.48
1	az	198	CYS	O-C-N	-5.68	115.68	122.15
1	aA	69	LEU	CA-C-N	5.68	127.89	120.28
1	aA	69	LEU	C-N-CA	5.68	127.89	120.28
1	aA	126	VAL	CA-C-N	5.68	126.24	120.00
1	aA	126	VAL	C-N-CA	5.68	126.24	120.00
1	aH	125	PRO	CA-C-N	5.68	128.24	120.46
1	aH	125	PRO	C-N-CA	5.68	128.24	120.46
1	aQ	124	ILE	CA-C-O	-5.68	114.81	119.47
1	aR	19	THR	CA-C-O	5.68	126.78	120.82
1	aT	129	ILE	N-CA-CB	5.68	117.19	110.55
1	aV	208	ALA	CA-C-N	5.68	128.82	120.82
1	aV	208	ALA	C-N-CA	5.68	128.82	120.82
1	aZ	21	ASN	N-CA-C	5.68	117.14	111.07
1	b3	192	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	bp	139	ASN	CA-CB-CG	5.68	118.28	112.60
1	bt	79	GLU	N-CA-C	5.68	117.14	111.07
1	bu	169	TYR	N-CA-C	5.68	118.41	111.82
1	bw	18	ARG	NE-CZ-NH1	5.68	127.18	121.50
1	bG	156	GLY	CA-C-N	5.68	125.04	118.85
1	bG	156	GLY	C-N-CA	5.68	125.04	118.85
1	bV	42	ALA	CB-CA-C	-5.68	101.37	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	42	ALA	N-CA-C	5.68	117.14	111.07
1	cv	4	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	cA	142	VAL	CB-CA-C	-5.68	104.48	112.14
1	cJ	21	ASN	CB-CA-C	5.68	121.13	110.63
1	cM	74	ASN	CA-C-O	5.68	126.50	119.97
1	cS	6	LEU	N-CA-C	5.68	119.82	113.01
1	cV	190	LEU	O-C-N	5.68	127.92	122.07
1	1i	31	ALA	CA-C-N	5.68	129.54	121.42
1	1i	31	ALA	C-N-CA	5.68	129.54	121.42
1	de	5	ASN	CA-CB-CG	5.68	118.28	112.60
1	dn	32	PHE	CA-C-N	5.68	129.28	120.60
1	dn	32	PHE	C-N-CA	5.68	129.28	120.60
1	dr	66	MET	CA-C-N	5.68	127.89	120.28
1	dr	66	MET	C-N-CA	5.68	127.89	120.28
1	dy	78	ALA	O-C-N	-5.68	115.29	122.27
1	dK	90	PRO	O-C-N	-5.68	115.78	122.99
1	e0	136	LEU	N-CA-CB	-5.68	101.78	110.12
1	e1	11	VAL	CA-C-O	5.68	127.60	121.36
1	e8	123	PRO	CA-C-O	-5.68	115.07	121.43
1	eO	162	ARG	CD-NE-CZ	5.68	132.35	124.40
1	eR	226	HIS	N-CA-C	5.68	118.46	110.23
1	eW	113	GLU	CA-C-N	5.68	127.82	120.44
1	eW	113	GLU	C-N-CA	5.68	127.82	120.44
1	f1	176	GLN	OE1-CD-NE2	-5.68	116.92	122.60
1	fe	102	SER	N-CA-CB	5.68	118.24	110.01
1	fe	204	ALA	CA-C-O	5.68	126.50	119.97
1	ff	124	ILE	O-C-N	-5.68	113.79	120.66
1	fn	1	PRO	CB-CA-C	5.68	120.89	110.10
1	1y	37	ILE	CB-CA-C	5.68	121.69	111.36
1	fU	184	TRP	O-C-N	-5.68	116.10	122.12
1	fW	31	ALA	N-CA-C	5.68	118.20	111.33
1	fY	171	THR	N-CA-C	5.68	117.14	111.07
1	g5	212	GLU	O-C-N	-5.68	116.10	122.12
1	g7	33	SER	CA-C-O	-5.68	114.43	120.28
1	f	120	HIS	CB-CG-ND1	5.68	131.21	122.70
1	A	112	GLN	CA-C-O	-5.68	114.38	121.02
1	C	216	THR	O-C-N	-5.68	115.58	122.22
1	G	114	GLN	N-CA-C	5.68	117.14	111.07
1	G	193	ASN	CA-CB-CG	-5.68	106.92	112.60
1	K	70	LYS	N-CA-CB	5.68	118.24	110.01
1	X	117	TRP	N-CA-C	5.68	117.47	111.28
1	6	153	ILE	O-C-N	-5.68	115.59	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	95	GLN	CA-C-O	5.67	127.43	121.19
1	gh	62	HIS	ND1-CG-CD2	5.67	111.77	106.10
1	gm	64	ALA	CA-C-N	5.67	127.82	120.44
1	gm	64	ALA	C-N-CA	5.67	127.82	120.44
1	gm	137	GLY	O-C-N	-5.67	116.73	122.18
1	gt	158	LYS	N-CA-C	5.67	123.27	114.64
1	gz	69	LEU	O-C-N	-5.67	116.11	122.12
1	gK	21	ASN	O-C-N	-5.67	116.11	122.12
1	gK	62	HIS	CG-ND1-CE1	-5.67	99.65	109.30
1	gQ	84	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	1I	62	HIS	CB-CA-C	5.67	119.46	111.86
1	hr	216	THR	N-CA-C	-5.67	106.90	113.88
1	hz	186	THR	N-CA-C	5.67	117.14	111.07
1	hB	136	LEU	CA-C-O	-5.67	114.83	120.90
1	hF	126	VAL	N-CA-C	5.67	118.14	111.05
1	hG	227	LYS	CA-C-O	-5.67	115.31	121.44
1	hK	135	ILE	CA-CB-CG1	5.67	120.05	110.40
1	i9	100	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	ib	26	VAL	N-CA-C	-5.67	104.40	110.36
1	ic	71	GLU	N-CA-C	5.67	117.47	111.28
1	ii	37	ILE	CA-CB-CG1	5.67	120.05	110.40
1	iI	89	GLY	CA-C-N	5.67	125.68	119.89
1	iI	89	GLY	C-N-CA	5.67	125.68	119.89
1	1T	101	GLY	CA-C-N	5.67	127.88	120.28
1	1T	101	GLY	C-N-CA	5.67	127.88	120.28
1	j3	148	THR	N-CA-C	5.67	118.55	110.10
1	1U	174	ALA	CB-CA-C	5.67	120.47	110.37
1	jd	87	HIS	CA-CB-CG	-5.67	108.13	113.80
1	jg	119	THR	O-C-N	-5.67	115.37	122.35
1	jA	131	LYS	CA-C-N	5.67	127.82	120.44
1	jA	131	LYS	C-N-CA	5.67	127.82	120.44
1	jK	121	ASN	OD1-CG-ND2	-5.67	116.93	122.60
1	jM	174	ALA	N-CA-CB	-5.67	102.07	110.53
1	jN	134	ILE	CA-C-N	5.67	127.71	120.56
1	jN	134	ILE	C-N-CA	5.67	127.71	120.56
1	jP	172	LEU	N-CA-C	5.67	117.14	111.07
1	jR	1	PRO	N-CD-CG	5.67	111.71	103.20
1	jV	127	GLY	CA-C-O	-5.67	114.27	120.40
1	k7	136	LEU	O-C-N	5.67	128.13	122.12
1	k9	107	THR	OG1-CB-CG2	-5.67	97.95	109.30
1	20	45	GLU	CB-CA-C	-5.67	101.05	109.90
1	kv	12	HIS	ND1-CE1-NE2	5.67	114.07	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kB	38	PRO	N-CA-CB	5.67	109.80	103.44
1	kI	32	PHE	CA-C-O	5.67	126.62	120.43
1	l5	164	TYR	N-CA-C	5.67	117.92	111.11
1	le	181	VAL	N-CA-CB	-5.67	103.91	110.55
1	lv	97	ARG	NE-CZ-NH2	5.67	124.31	119.20
1	lw	84	HIS	CA-C-N	5.67	126.93	119.84
1	lw	84	HIS	C-N-CA	5.67	126.93	119.84
1	lz	71	GLU	CA-C-N	5.67	127.88	120.28
1	lz	71	GLU	C-N-CA	5.67	127.88	120.28
1	lC	59	VAL	N-CA-CB	-5.67	104.59	110.95
1	lG	169	TYR	N-CA-CB	5.67	118.46	110.12
1	lJ	126	VAL	N-CA-C	5.67	116.41	110.62
1	2b	45	GLU	CB-CA-C	5.67	117.95	110.06
1	2n	200	THR	CA-C-N	5.67	127.82	120.56
1	2n	200	THR	C-N-CA	5.67	127.82	120.56
1	2o	161	PHE	CA-C-N	5.67	127.88	120.28
1	2o	161	PHE	C-N-CA	5.67	127.88	120.28
1	2N	104	ILE	O-C-N	-5.67	116.35	121.91
1	3c	73	ILE	CA-C-N	5.67	128.45	120.28
1	3c	73	ILE	C-N-CA	5.67	128.45	120.28
1	3c	189	LEU	N-CA-C	5.67	117.47	111.28
1	3h	131	LYS	CA-C-O	5.67	126.50	119.97
1	3p	84	HIS	CA-CB-CG	-5.67	108.13	113.80
1	3L	133	TRP	CB-CG-CD1	5.67	135.41	126.90
1	48	69	LEU	N-CA-C	5.67	117.14	111.07
1	4b	16	SER	CA-C-O	-5.67	114.51	120.70
1	4b	226	HIS	N-CA-C	5.67	122.89	110.80
1	4h	128	GLU	CA-C-N	5.67	127.71	120.56
1	4h	128	GLU	C-N-CA	5.67	127.71	120.56
1	4l	112	GLN	CA-C-N	5.67	128.20	120.54
1	4l	112	GLN	C-N-CA	5.67	128.20	120.54
1	4w	123	PRO	N-CA-CB	5.67	109.21	103.25
1	4B	225	GLY	CA-C-O	5.67	127.95	122.28
1	4I	12	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	5f	143	ARG	N-CA-C	5.67	117.27	111.14
1	5l	54	THR	OG1-CB-CG2	-5.67	97.95	109.30
1	5u	75	GLU	CA-C-N	5.67	127.88	120.28
1	5u	75	GLU	C-N-CA	5.67	127.88	120.28
1	5v	99	PRO	N-CA-C	5.67	119.77	111.03
1	5F	96	MET	O-C-N	-5.67	116.16	122.86
1	5T	130	TYR	N-CA-C	-5.67	105.09	111.28
1	6c	65	ALA	CB-CA-C	-5.67	99.78	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6d	167	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	6i	159	GLU	CA-C-N	5.67	125.60	119.76
1	6i	159	GLU	C-N-CA	5.67	125.60	119.76
1	6k	31	ALA	N-CA-CB	-5.67	101.78	110.12
1	6k	191	VAL	N-CA-C	-5.67	107.25	113.43
1	6x	61	GLY	CA-C-O	-5.67	114.53	122.36
1	6x	209	ALA	N-CA-C	5.67	118.46	110.23
1	6U	55	MET	N-CA-C	5.67	117.14	111.07
1	75	67	GLN	CA-C-O	5.67	126.50	119.97
1	75	183	ASN	CA-CB-CG	-5.67	106.92	112.60
1	7a	132	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	7h	179	GLN	CA-C-N	5.67	128.35	120.29
1	7h	179	GLN	C-N-CA	5.67	128.35	120.29
1	7o	228	ALA	O-C-N	-5.67	116.10	122.12
1	7y	127	GLY	CA-C-N	5.67	127.88	120.28
1	7y	127	GLY	C-N-CA	5.67	127.88	120.28
1	7C	101	GLY	N-CA-C	5.67	119.75	112.83
1	7L	218	CYS	CB-CA-C	5.67	121.71	110.42
1	7R	184	TRP	CA-C-N	5.67	128.15	120.38
1	7R	184	TRP	C-N-CA	5.67	128.15	120.38
1	8b	68	MET	CA-C-O	5.67	126.78	120.82
1	8c	108	THR	N-CA-C	-5.67	106.19	113.23
1	8f	24	VAL	N-CA-CB	5.67	118.26	110.54
1	8l	69	LEU	N-CA-C	5.67	118.20	111.33
1	8t	30	LYS	CA-C-O	5.67	126.29	119.59
1	8E	118	MET	O-C-N	-5.67	115.73	122.20
1	8I	62	HIS	ND1-CG-CD2	5.67	111.78	106.10
1	8O	52	LEU	CA-C-N	5.67	127.89	120.28
1	8O	52	LEU	C-N-CA	5.67	127.89	120.28
1	8T	76	GLU	CA-C-N	5.67	127.88	120.28
1	8T	76	GLU	C-N-CA	5.67	127.88	120.28
1	8U	195	ASN	OD1-CG-ND2	5.67	128.28	122.60
1	95	180	GLU	CA-C-O	5.67	126.78	120.82
1	96	49	PRO	CA-C-N	5.67	127.82	120.44
1	96	49	PRO	C-N-CA	5.67	127.82	120.44
1	9i	177	ALA	CA-C-N	5.67	128.77	120.71
1	9i	177	ALA	C-N-CA	5.67	128.77	120.71
1	9k	20	LEU	CA-C-N	5.67	127.82	120.44
1	9k	20	LEU	C-N-CA	5.67	127.82	120.44
1	9l	165	VAL	CA-C-O	5.67	126.85	120.95
1	9t	21	ASN	N-CA-CB	-5.67	101.78	110.12
1	9B	58	THR	CA-C-O	-5.67	112.68	119.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9E	203	LYS	CA-C-N	5.67	127.88	120.28
1	9E	203	LYS	C-N-CA	5.67	127.88	120.28
1	9I	37	ILE	N-CA-CB	-5.67	106.92	110.50
1	9J	186	THR	CA-C-N	5.67	128.94	120.31
1	9J	186	THR	C-N-CA	5.67	128.94	120.31
1	9J	190	LEU	N-CA-C	5.67	117.46	111.28
1	9O	87	HIS	CA-CB-CG	5.67	119.47	113.80
1	9Z	202	LEU	CB-CA-C	5.67	120.21	110.79
1	a7	11	VAL	N-CA-CB	5.67	119.80	111.52
1	aq	84	HIS	CA-C-O	5.67	124.31	119.71
1	aq	181	VAL	N-CA-C	5.67	116.45	110.72
1	aC	73	ILE	N-CA-C	5.67	118.18	111.09
1	aM	193	ASN	CA-CB-CG	-5.67	106.92	112.60
1	aN	90	PRO	N-CD-CG	5.67	111.71	103.20
1	aO	181	VAL	CA-C-N	5.67	128.45	120.28
1	aO	181	VAL	C-N-CA	5.67	128.45	120.28
1	aS	123	PRO	N-CA-CB	5.67	108.09	103.32
1	aZ	202	LEU	O-C-N	-5.67	114.73	122.33
1	b5	98	GLU	O-C-N	-5.67	115.45	121.30
1	bb	70	LYS	N-CA-C	5.67	117.47	111.28
1	bc	166	ASP	CB-CA-C	5.67	119.89	110.81
1	bg	128	GLU	N-CA-C	5.67	117.92	111.11
1	bg	209	ALA	N-CA-CB	-5.67	101.26	109.83
1	17	147	PRO	N-CA-CB	5.67	106.51	102.65
1	bp	22	ALA	N-CA-C	5.67	117.55	111.36
1	bw	228	ALA	N-CA-C	-5.67	106.40	113.38
1	by	175	GLU	N-CA-CB	5.67	118.34	110.17
1	bG	166	ASP	N-CA-CB	-5.67	101.78	110.12
1	c7	30	LYS	O-C-N	-5.67	115.37	122.35
1	cd	66	MET	O-C-N	-5.67	115.29	122.27
1	cs	133	TRP	CA-CB-CG	5.67	124.38	113.60
1	cT	87	HIS	N-CA-C	5.67	122.89	110.80
1	d2	126	VAL	CA-CB-CG2	5.67	120.05	110.40
1	d7	195	ASN	CA-CB-CG	5.67	118.28	112.60
1	dT	20	LEU	CA-C-N	5.67	128.35	120.29
1	dT	20	LEU	C-N-CA	5.67	128.35	120.29
1	dT	48	THR	N-CA-CB	-5.67	103.08	109.49
1	e7	213	GLU	CB-CA-C	-5.67	100.61	110.09
1	ef	10	MET	N-CA-C	5.67	118.46	110.23
1	ek	162	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	ey	153	ILE	O-C-N	-5.67	115.52	122.61
1	eB	125	PRO	CB-CA-C	-5.67	104.86	112.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eC	171	THR	CA-C-O	5.67	126.43	120.42
1	eN	30	LYS	N-CA-CB	5.67	118.47	110.98
1	eW	83	LEU	N-CA-C	5.67	117.55	111.36
1	f4	163	ASP	CA-CB-CG	5.67	118.28	112.60
1	f6	143	ARG	O-C-N	-5.67	115.68	122.15
1	f7	124	ILE	CA-C-O	5.67	123.34	119.20
1	1v	23	TRP	CH2-CZ2-CE2	5.67	124.88	117.50
1	fe	142	VAL	N-CA-C	5.67	115.87	110.42
1	fo	19	THR	CA-C-N	5.67	128.35	120.29
1	fo	19	THR	C-N-CA	5.67	128.35	120.29
1	fp	16	SER	N-CA-C	5.67	119.71	109.44
1	fz	132	ARG	N-CA-C	5.67	119.46	112.54
1	fL	37	ILE	N-CA-CB	5.67	114.07	110.50
1	g5	87	HIS	O-C-N	-5.67	116.38	122.85
1	b	173	ARG	CA-C-N	5.67	128.16	120.38
1	b	173	ARG	C-N-CA	5.67	128.16	120.38
1	h	138	LEU	CA-C-N	5.67	128.16	120.44
1	h	138	LEU	C-N-CA	5.67	128.16	120.44
1	h	145	TYR	CB-CG-CD1	5.67	129.31	120.80
1	p	80	TRP	CD2-CE2-CZ2	-5.67	116.72	122.40
1	G	154	ARG	O-C-N	-5.67	116.57	123.10
1	gb	18	ARG	CA-C-O	5.67	126.78	120.82
1	gD	102	SER	CA-C-N	5.67	127.88	120.28
1	gD	102	SER	C-N-CA	5.67	127.88	120.28
1	gQ	13	GLN	O-C-N	-5.67	116.58	123.10
1	im	228	ALA	CA-C-O	5.67	125.29	119.05
1	iB	40	PHE	CA-CB-CG	5.67	119.47	113.80
1	1V	139	ASN	OD1-CG-ND2	-5.67	116.93	122.60
1	kw	125	PRO	N-CA-CB	-5.67	97.29	103.25
1	kI	66	MET	N-CA-C	5.67	117.46	111.28
1	kV	157	PRO	CA-C-N	5.67	132.38	121.54
1	kV	157	PRO	C-N-CA	5.67	132.38	121.54
1	lM	100	ARG	N-CA-C	-5.67	101.57	110.36
1	2o	82	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
1	2y	198	CYS	O-C-N	-5.67	114.86	122.23
1	2E	23	TRP	CB-CG-CD2	5.67	134.74	126.80
1	3b	150	ILE	CA-C-N	5.67	128.45	120.28
1	3b	150	ILE	C-N-CA	5.67	128.45	120.28
1	3v	84	HIS	CA-C-N	5.67	125.69	119.90
1	3v	84	HIS	C-N-CA	5.67	125.69	119.90
1	3y	155	GLN	CA-C-O	5.67	126.49	120.36
1	3C	151	LEU	O-C-N	-5.67	115.50	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	4	GLN	CB-CA-C	-5.67	99.13	110.42
1	5v	198	CYS	CA-C-N	5.67	127.88	120.28
1	5v	198	CYS	C-N-CA	5.67	127.88	120.28
1	5y	97	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
1	5E	84	HIS	CA-C-O	-5.67	114.54	120.38
1	5J	166	ASP	CA-C-N	5.67	127.88	120.28
1	5J	166	ASP	C-N-CA	5.67	127.88	120.28
1	68	190	LEU	N-CA-C	5.67	117.46	111.28
1	6f	103	ASP	N-CA-C	5.67	118.40	111.82
1	6s	168	PHE	CA-C-N	5.67	128.15	120.38
1	6s	168	PHE	C-N-CA	5.67	128.15	120.38
1	6D	25	LYS	N-CA-C	5.67	118.23	111.71
1	6P	194	ALA	CA-C-N	5.67	128.94	120.83
1	6P	194	ALA	C-N-CA	5.67	128.94	120.83
1	7c	62	HIS	CB-CG-ND1	-5.67	114.19	122.70
1	7m	152	ASP	CA-CB-CG	-5.67	106.93	112.60
1	7o	48	THR	CA-C-N	5.67	126.93	119.84
1	7o	48	THR	C-N-CA	5.67	126.93	119.84
1	7E	53	ASN	CA-CB-CG	-5.67	106.93	112.60
1	7X	184	TRP	CB-CG-CD2	5.67	134.74	126.80
1	8U	120	HIS	CA-CB-CG	-5.67	108.13	113.80
1	9m	137	GLY	O-C-N	-5.67	116.69	122.19
1	a2	190	LEU	CA-C-N	5.67	128.23	120.46
1	a2	190	LEU	C-N-CA	5.67	128.23	120.46
1	ai	99	PRO	N-CA-CB	-5.67	98.76	103.30
1	ar	21	ASN	CA-C-N	5.67	128.16	120.44
1	ar	21	ASN	C-N-CA	5.67	128.16	120.44
1	be	182	LYS	N-CA-C	5.67	117.46	111.28
1	bL	96	MET	O-C-N	-5.67	116.32	122.79
1	co	205	LEU	O-C-N	5.67	128.13	122.12
1	cA	27	VAL	CA-C-N	5.67	127.88	120.28
1	cA	27	VAL	C-N-CA	5.67	127.88	120.28
1	cV	170	LYS	CA-C-N	5.67	128.20	120.54
1	cV	170	LYS	C-N-CA	5.67	128.20	120.54
1	d1	143	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
1	1i	59	VAL	O-C-N	-5.67	116.48	122.83
1	df	18	ARG	CA-C-O	5.67	126.48	119.79
1	df	183	ASN	CA-C-N	5.67	128.45	120.28
1	df	183	ASN	C-N-CA	5.67	128.45	120.28
1	dD	51	ASP	CA-CB-CG	5.67	118.27	112.60
1	dX	177	ALA	N-CA-C	-5.67	100.73	109.52
1	ek	37	ILE	CA-C-N	5.67	125.03	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ek	37	ILE	C-N-CA	5.67	125.03	118.85
1	eq	92	GLU	O-C-N	-5.67	115.59	121.60
1	eM	11	VAL	N-CA-C	5.67	116.62	110.21
1	eO	191	VAL	O-C-N	-5.67	116.35	121.91
1	eP	188	THR	CA-CB-OG1	5.67	118.11	109.60
1	f6	45	GLU	CA-C-N	5.67	131.22	121.07
1	f6	45	GLU	C-N-CA	5.67	131.22	121.07
1	fj	203	LYS	CA-C-N	5.67	128.15	120.38
1	fj	203	LYS	C-N-CA	5.67	128.15	120.38
1	fk	97	ARG	CG-CD-NE	-5.67	99.52	112.00
1	fq	96	MET	N-CA-CB	5.67	118.40	109.83
1	fs	46	GLY	CA-C-N	5.67	128.93	120.87
1	fs	46	GLY	C-N-CA	5.67	128.93	120.87
1	0	100	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	gi	163	ASP	N-CA-C	5.67	117.46	111.28
1	gL	37	ILE	CB-CA-C	-5.67	108.34	114.35
1	gS	84	HIS	N-CA-C	5.67	118.62	109.15
1	1G	119	THR	N-CA-CB	-5.67	102.28	110.56
1	h9	29	GLU	O-C-N	-5.67	115.69	122.15
1	hu	180	GLU	CA-C-O	5.67	126.78	120.82
1	hv	161	PHE	CB-CG-CD1	-5.67	111.06	120.70
1	hy	152	ASP	CA-C-O	5.67	125.93	119.18
1	hL	137	GLY	CA-C-O	5.67	126.59	120.75
1	hM	114	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	1M	125	PRO	CA-C-N	5.67	127.92	120.60
1	1M	125	PRO	C-N-CA	5.67	127.92	120.60
1	hU	159	GLU	N-CA-C	5.67	117.65	109.48
1	i2	204	ALA	N-CA-C	5.67	117.46	111.28
1	i5	143	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
1	ib	219	GLN	O-C-N	-5.67	116.30	123.05
1	if	214	MET	CB-CA-C	-5.67	101.38	110.79
1	ij	229	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	io	143	ARG	CA-C-N	5.67	127.88	120.28
1	io	143	ARG	C-N-CA	5.67	127.88	120.28
1	ip	23	TRP	CA-C-N	5.67	128.23	120.46
1	ip	23	TRP	C-N-CA	5.67	128.23	120.46
1	iq	210	THR	CA-CB-CG2	5.67	120.14	110.50
1	it	18	ARG	N-CA-C	5.67	117.54	111.36
1	iw	129	ILE	N-CA-C	5.67	115.86	110.42
1	jC	85	PRO	CA-C-N	5.67	128.10	120.50
1	jC	85	PRO	C-N-CA	5.67	128.10	120.50
1	jC	168	PHE	N-CA-C	5.67	117.92	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	139	ASN	CA-CB-CG	5.67	118.27	112.60
1	jU	210	THR	O-C-N	-5.67	116.71	123.06
1	jV	70	LYS	CA-C-N	5.67	128.19	120.54
1	jV	70	LYS	C-N-CA	5.67	128.19	120.54
1	k4	167	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	k5	140	LYS	CB-CA-C	-5.67	101.37	110.79
1	kp	226	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	kD	48	THR	CA-CB-OG1	5.67	118.11	109.60
1	kE	56	LEU	CB-CA-C	-5.67	101.38	110.79
1	kG	170	LYS	CA-C-O	5.67	126.56	120.55
1	kL	31	ALA	N-CA-CB	-5.67	102.73	110.56
1	kM	117	TRP	O-C-N	-5.67	116.11	122.12
1	kT	202	LEU	CA-C-N	5.67	128.66	120.38
1	kT	202	LEU	C-N-CA	5.67	128.66	120.38
1	l2	123	PRO	O-C-N	-5.67	115.79	122.99
1	l4	209	ALA	O-C-N	-5.67	115.05	122.59
1	lj	76	GLU	CA-C-O	5.67	126.49	119.97
1	lw	184	TRP	CA-CB-CG	5.67	124.38	113.60
1	lz	101	GLY	N-CA-C	5.67	119.50	112.64
1	lE	153	ILE	N-CA-CB	-5.67	104.57	111.21
1	lE	177	ALA	N-CA-C	5.67	117.61	110.24
1	2l	27	VAL	N-CA-C	5.67	116.41	110.62
1	2n	67	GLN	O-C-N	-5.67	116.11	122.12
1	2s	145	TYR	CA-C-N	5.67	128.54	120.49
1	2s	145	TYR	C-N-CA	5.67	128.54	120.49
1	2E	78	ALA	CA-C-O	5.67	126.56	120.55
1	2F	87	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	2S	174	ALA	CA-C-O	5.67	126.43	120.42
1	2U	117	TRP	O-C-N	-5.67	114.73	122.33
1	2X	200	THR	CA-C-N	5.67	129.60	120.30
1	2X	200	THR	C-N-CA	5.67	129.60	120.30
1	3I	33	SER	CA-C-O	-5.67	112.39	120.16
1	45	161	PHE	CA-C-N	5.67	128.66	120.38
1	45	161	PHE	C-N-CA	5.67	128.66	120.38
1	4d	13	GLN	CA-C-N	5.67	129.16	120.82
1	4d	13	GLN	C-N-CA	5.67	129.16	120.82
1	4w	175	GLU	CB-CG-CD	-5.67	102.96	112.60
1	4Y	124	ILE	CA-CB-CG2	-5.67	100.86	110.50
1	59	87	HIS	O-C-N	-5.67	116.62	123.03
1	5e	49	PRO	O-C-N	-5.67	114.98	122.64
1	5i	93	PRO	N-CA-CB	5.67	108.37	103.27
1	5J	12	HIS	N-CA-C	5.67	118.67	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Q	67	GLN	CA-C-O	-5.67	114.41	120.42
1	5R	4	GLN	CA-C-O	-5.67	112.66	118.90
1	64	53	ASN	CB-CA-C	-5.67	101.21	110.85
1	66	176	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	6p	200	THR	CA-C-O	-5.67	114.86	120.82
1	6r	165	VAL	CB-CA-C	-5.67	104.48	112.14
1	6s	133	TRP	CA-C-N	5.67	128.47	120.42
1	6s	133	TRP	C-N-CA	5.67	128.47	120.42
1	6x	215	MET	CA-C-N	5.67	132.64	121.58
1	6x	215	MET	C-N-CA	5.67	132.64	121.58
1	6F	88	ALA	CA-C-N	5.67	130.77	121.87
1	6F	88	ALA	C-N-CA	5.67	130.77	121.87
1	7e	137	GLY	CA-C-O	5.67	126.67	120.66
1	7B	35	GLU	N-CA-CB	-5.67	101.76	110.44
1	7C	156	GLY	CA-C-N	5.67	125.14	119.24
1	7C	156	GLY	C-N-CA	5.67	125.14	119.24
1	7E	180	GLU	N-CA-C	5.67	117.46	111.28
1	7L	138	LEU	CA-C-N	5.67	127.88	120.28
1	7L	138	LEU	C-N-CA	5.67	127.88	120.28
1	7U	103	ASP	CA-C-N	5.67	127.82	120.56
1	7U	103	ASP	C-N-CA	5.67	127.82	120.56
1	8h	89	GLY	CA-C-N	5.67	126.93	119.84
1	8h	89	GLY	C-N-CA	5.67	126.93	119.84
1	8j	153	ILE	O-C-N	-5.67	115.48	122.57
1	8t	108	THR	O-C-N	-5.67	115.05	122.20
1	8u	183	ASN	CA-C-N	5.67	127.88	120.28
1	8u	183	ASN	C-N-CA	5.67	127.88	120.28
1	8x	204	ALA	N-CA-C	5.67	117.14	111.07
1	8B	166	ASP	CA-C-N	5.67	127.88	120.28
1	8B	166	ASP	C-N-CA	5.67	127.88	120.28
1	8C	56	LEU	CA-C-O	5.67	126.49	119.97
1	8D	102	SER	N-CA-C	-5.67	105.00	111.07
1	8O	24	VAL	N-CA-CB	5.67	118.25	110.54
1	8R	32	PHE	CA-C-N	5.67	129.28	120.60
1	8R	32	PHE	C-N-CA	5.67	129.28	120.60
1	8X	159	GLU	CA-C-N	5.67	125.67	119.89
1	8X	159	GLU	C-N-CA	5.67	125.67	119.89
1	91	145	TYR	CA-CB-CG	5.67	124.11	113.90
1	98	135	ILE	N-CA-C	5.67	117.09	110.62
1	98	150	ILE	CA-CB-CG2	-5.67	100.86	110.50
1	9d	197	ASP	CA-CB-CG	5.67	118.27	112.60
1	9p	26	VAL	O-C-N	-5.67	116.37	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9r	51	ASP	CB-CA-C	-5.67	101.21	110.85
1	9C	113	GLU	N-CA-C	5.67	117.14	111.07
1	9F	123	PRO	CA-C-O	-5.67	115.08	121.43
1	9H	53	ASN	O-C-N	-5.67	116.23	122.07
1	9N	146	SER	N-CA-C	5.67	117.66	109.04
1	Y	44	SER	N-CA-CB	5.67	118.84	110.56
1	9X	82	ARG	CA-C-N	5.67	127.88	120.28
1	9X	82	ARG	C-N-CA	5.67	127.88	120.28
1	ag	173	ARG	NE-CZ-NH2	-5.67	114.09	119.20
1	aj	38	PRO	O-C-N	-5.67	115.42	122.23
1	11	135	ILE	CA-C-O	5.67	127.17	121.27
1	ar	141	ILE	O-C-N	-5.67	115.99	121.83
1	12	226	HIS	CA-CB-CG	5.67	119.47	113.80
1	aA	110	THR	CA-CB-CG2	-5.67	100.86	110.50
1	13	167	ARG	NH1-CZ-NH2	5.67	126.67	119.30
1	aE	133	TRP	CB-CG-CD2	-5.67	118.86	126.80
1	aK	27	VAL	CA-C-N	5.67	128.34	120.29
1	aK	27	VAL	C-N-CA	5.67	128.34	120.29
1	aQ	84	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	b0	123	PRO	N-CA-CB	5.67	108.28	103.35
1	b1	198	CYS	N-CA-C	5.67	117.54	111.36
1	18	12	HIS	CB-CG-ND1	5.67	131.21	122.70
1	bH	200	THR	O-C-N	5.67	127.99	122.09
1	bI	182	LYS	N-CA-C	5.67	117.46	111.28
1	bR	27	VAL	CA-C-O	-5.67	115.16	121.17
1	1c	227	LYS	CB-CA-C	5.67	119.16	109.80
1	cf	190	LEU	O-C-N	-5.67	115.96	122.09
1	cp	199	LYS	CA-C-O	5.67	126.97	120.90
1	cs	43	LEU	O-C-N	-5.67	115.58	122.22
1	ct	183	ASN	CA-C-N	5.67	127.88	120.28
1	ct	183	ASN	C-N-CA	5.67	127.88	120.28
1	cA	52	LEU	CA-C-N	5.67	127.88	120.28
1	cA	52	LEU	C-N-CA	5.67	127.88	120.28
1	dc	7	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	df	33	SER	CA-C-N	5.67	126.42	120.12
1	df	33	SER	C-N-CA	5.67	126.42	120.12
1	dn	87	HIS	CB-CG-CD2	-5.67	123.83	131.20
1	dq	230	VAL	CA-CB-CG1	5.67	120.04	110.40
1	dr	164	TYR	CA-C-O	5.67	126.43	120.42
1	dW	199	LYS	N-CA-CB	5.67	118.57	110.06
1	dY	67	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	e7	54	THR	N-CA-C	5.67	117.92	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eo	25	LYS	N-CA-C	5.67	117.46	111.28
1	1r	143	ARG	O-C-N	-5.67	115.68	122.15
1	eH	213	GLU	CA-C-N	5.67	127.88	120.28
1	eH	213	GLU	C-N-CA	5.67	127.88	120.28
1	eI	35	GLU	N-CA-CB	-5.67	102.10	110.49
1	eK	155	GLN	O-C-N	-5.67	116.40	123.04
1	f0	43	LEU	O-C-N	-5.67	114.83	122.43
1	f4	174	ALA	O-C-N	-5.67	116.11	122.12
1	f5	227	LYS	N-CA-C	5.67	117.61	110.24
1	f7	3	VAL	CA-C-N	5.67	132.37	121.54
1	f7	3	VAL	C-N-CA	5.67	132.37	121.54
1	1v	20	LEU	CA-C-N	5.67	127.81	120.44
1	1v	20	LEU	C-N-CA	5.67	127.81	120.44
1	fb	95	GLN	CA-C-O	5.67	126.56	120.38
1	fc	161	PHE	O-C-N	-5.67	115.29	122.27
1	ff	15	ILE	N-CA-CB	-5.67	101.01	110.14
1	fm	173	ARG	O-C-N	5.67	127.91	122.07
1	fA	103	ASP	CA-C-N	5.67	128.23	120.46
1	fA	103	ASP	C-N-CA	5.67	128.23	120.46
1	fG	133	TRP	CD2-CE2-CZ2	-5.67	116.73	122.40
1	fS	63	GLN	CA-C-O	-5.67	114.86	120.82
1	1B	165	VAL	N-CA-CB	5.67	116.81	110.51
1	k	113	GLU	N-CA-C	-5.67	105.18	111.36
1	q	219	GLN	N-CA-C	5.67	117.61	110.24
1	H	187	GLU	N-CA-CB	-5.67	101.82	110.33
1	M	168	PHE	N-CA-CB	-5.67	101.78	110.12
1	M	222	GLY	O-C-N	-5.67	115.84	122.87
1	4	162	ARG	N-CA-C	5.67	120.73	111.37
1	5	229	ARG	N-CA-C	5.67	118.58	110.24
1	g8	100	ARG	NH1-CZ-NH2	5.67	126.67	119.30
1	gd	131	LYS	O-C-N	-5.67	116.23	122.07
1	gn	164	TYR	O-C-N	-5.67	114.69	122.46
1	gt	7	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	gt	18	ARG	CD-NE-CZ	5.67	132.34	124.40
1	gx	98	GLU	CA-C-N	5.67	126.56	119.98
1	gx	98	GLU	C-N-CA	5.67	126.56	119.98
1	gC	201	ILE	CA-C-O	5.67	127.34	121.05
1	ho	210	THR	N-CA-CB	5.67	119.65	110.41
1	hp	2	ILE	CA-CB-CG1	5.67	120.04	110.40
1	hr	19	THR	CA-CB-CG2	5.67	120.14	110.50
1	hQ	110	THR	N-CA-C	5.67	118.01	110.53
1	il	77	ALA	CA-C-N	5.67	128.34	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	77	ALA	C-N-CA	5.67	128.34	120.29
1	iB	176	GLN	CA-C-N	5.67	129.16	121.05
1	iB	176	GLN	C-N-CA	5.67	129.16	121.05
1	iK	67	GLN	N-CA-C	5.67	117.46	111.28
1	1S	17	PRO	N-CA-CB	5.67	109.20	103.25
1	iX	150	ILE	O-C-N	-5.67	116.37	121.87
1	jG	135	ILE	N-CA-CB	5.67	117.56	110.47
1	kc	226	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	21	123	PRO	CA-C-O	-5.67	114.98	121.56
1	ko	213	GLU	CA-C-O	5.67	126.43	120.42
1	ky	176	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	le	87	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	lx	42	ALA	CA-C-O	5.67	126.56	120.55
1	ly	8	GLY	CA-C-N	5.67	131.39	122.49
1	ly	8	GLY	C-N-CA	5.67	131.39	122.49
1	2l	220	GLY	CA-C-O	5.67	125.49	119.03
1	2m	198	CYS	CA-C-N	5.67	127.81	120.44
1	2m	198	CYS	C-N-CA	5.67	127.81	120.44
1	2v	19	THR	N-CA-C	5.67	117.46	111.28
1	2K	154	ARG	NE-CZ-NH1	-5.67	115.83	121.50
1	2X	18	ARG	CA-C-N	5.67	127.88	120.28
1	2X	18	ARG	C-N-CA	5.67	127.88	120.28
1	32	119	THR	N-CA-C	-5.67	107.36	114.56
1	3g	221	VAL	CA-C-O	-5.67	115.16	121.23
1	3j	27	VAL	CA-C-N	5.67	127.81	120.44
1	3j	27	VAL	C-N-CA	5.67	127.81	120.44
1	3p	25	LYS	N-CA-C	5.67	117.46	111.28
1	42	114	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	4t	22	ALA	N-CA-C	5.67	117.26	111.14
1	4Y	156	GLY	CA-C-N	5.67	125.20	119.19
1	4Y	156	GLY	C-N-CA	5.67	125.20	119.19
1	5y	32	PHE	CA-CB-CG	-5.67	108.13	113.80
1	5A	182	LYS	N-CA-C	5.67	117.46	111.28
1	5M	60	GLY	CA-C-N	5.67	129.47	121.30
1	5M	60	GLY	C-N-CA	5.67	129.47	121.30
1	6r	44	SER	O-C-N	-5.67	115.05	122.59
1	6D	27	VAL	CB-CA-C	-5.67	103.37	112.16
1	6D	89	GLY	O-C-N	5.67	127.44	121.77
1	73	118	MET	CG-SD-CE	-5.67	88.43	100.90
1	74	210	THR	CA-C-O	-5.67	114.95	121.19
1	7p	136	LEU	CA-C-N	5.67	126.24	120.00
1	7p	136	LEU	C-N-CA	5.67	126.24	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7V	16	SER	CA-C-O	-5.67	114.13	120.25
1	8e	40	PHE	N-CA-C	5.67	117.46	111.28
1	8q	53	ASN	CA-CB-CG	-5.67	106.93	112.60
1	8X	49	PRO	CA-C-N	5.67	127.88	120.28
1	8X	49	PRO	C-N-CA	5.67	127.88	120.28
1	9T	87	HIS	N-CA-CB	-5.67	101.30	110.71
1	a9	205	LEU	CA-C-O	5.67	125.38	119.14
1	ab	76	GLU	CA-C-O	5.67	126.77	120.82
1	12	216	THR	CA-C-N	5.67	128.81	120.82
1	12	216	THR	C-N-CA	5.67	128.81	120.82
1	13	78	ALA	CA-C-O	5.67	126.77	120.82
1	bE	31	ALA	N-CA-CB	-5.67	101.71	110.04
1	bJ	87	HIS	CA-CB-CG	5.67	119.47	113.80
1	bY	100	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	c2	4	GLN	O-C-N	-5.67	116.26	123.06
1	cK	213	GLU	CA-C-N	5.67	127.88	120.28
1	cK	213	GLU	C-N-CA	5.67	127.88	120.28
1	d2	117	TRP	O-C-N	-5.67	116.23	122.07
1	d4	193	ASN	O-C-N	-5.67	115.38	122.35
1	dS	228	ALA	CA-C-O	5.67	127.38	120.92
1	dZ	218	CYS	CA-C-O	5.67	128.03	121.28
1	e7	219	GLN	N-CA-C	5.67	118.40	111.82
1	ej	199	LYS	N-CA-C	5.67	119.01	111.75
1	es	10	MET	O-C-N	-5.67	116.26	123.06
1	ez	206	GLY	O-C-N	-5.67	116.10	121.77
1	eA	177	ALA	CA-C-N	5.67	129.31	120.75
1	eA	177	ALA	C-N-CA	5.67	129.31	120.75
1	eY	96	MET	N-CA-CB	5.67	118.62	110.06
1	1u	198	CYS	CA-C-O	5.67	126.43	120.42
1	fm	39	MET	CB-CA-C	-5.67	101.21	110.85
1	fm	229	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	g	191	VAL	N-CA-C	5.67	116.45	110.72
1	l	31	ALA	N-CA-C	5.67	122.88	110.80
1	F	87	HIS	N-CA-CB	5.67	118.39	109.83
1	ga	227	LYS	O-C-N	-5.67	116.11	122.12
1	gh	101	GLY	O-C-N	5.67	128.25	122.24
1	gj	86	VAL	CA-C-N	5.67	128.81	120.82
1	gj	86	VAL	C-N-CA	5.67	128.81	120.82
1	gm	213	GLU	CA-C-N	5.67	128.34	120.29
1	gm	213	GLU	C-N-CA	5.67	128.34	120.29
1	1D	89	GLY	N-CA-C	5.67	123.91	112.34
1	1D	120	HIS	ND1-CE1-NE2	5.67	114.07	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	114	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	gx	120	HIS	N-CA-C	5.67	117.22	110.19
1	gS	168	PHE	CA-CB-CG	-5.67	108.13	113.80
1	gV	183	ASN	CA-C-N	5.67	128.93	120.31
1	gV	183	ASN	C-N-CA	5.67	128.93	120.31
1	h5	169	TYR	CA-C-O	-5.67	113.45	119.97
1	hI	47	ALA	O-C-N	-5.67	116.01	123.21
1	i1	151	LEU	O-C-N	-5.67	115.38	122.35
1	ia	210	THR	O-C-N	-5.67	116.33	122.79
1	iv	82	ARG	NE-CZ-NH1	-5.67	115.83	121.50
1	1Q	5	ASN	N-CA-CB	-5.67	100.67	109.34
1	iC	208	ALA	N-CA-C	-5.67	106.03	113.17
1	jf	8	GLY	N-CA-C	-5.67	107.84	115.21
1	jh	129	ILE	O-C-N	5.67	127.46	121.91
1	jx	1	PRO	CA-C-N	5.67	129.46	122.37
1	jx	1	PRO	C-N-CA	5.67	129.46	122.37
1	jT	200	THR	CA-C-N	5.67	128.23	120.46
1	jT	200	THR	C-N-CA	5.67	128.23	120.46
1	jZ	55	MET	CA-C-N	5.67	127.88	120.28
1	jZ	55	MET	C-N-CA	5.67	127.88	120.28
1	k4	4	GLN	O-C-N	-5.67	115.90	122.87
1	21	143	ARG	CA-C-O	-5.67	114.54	120.55
1	kr	203	LYS	N-CA-C	5.67	117.26	111.14
1	kN	90	PRO	CA-C-N	5.67	129.46	122.37
1	kN	90	PRO	C-N-CA	5.67	129.46	122.37
1	kR	18	ARG	CA-C-N	5.67	128.15	120.44
1	kR	18	ARG	C-N-CA	5.67	128.15	120.44
1	kR	117	TRP	CA-C-O	5.67	126.56	120.55
1	l3	72	THR	CA-C-N	5.67	128.23	120.46
1	l3	72	THR	C-N-CA	5.67	128.23	120.46
1	l7	83	LEU	O-C-N	-5.67	115.69	122.15
1	l9	113	GLU	CB-CG-CD	-5.67	102.96	112.60
1	lr	53	ASN	N-CA-C	5.67	117.46	111.28
1	lr	81	ASP	CA-CB-CG	-5.67	106.93	112.60
1	ls	189	LEU	CA-C-N	5.67	127.81	120.44
1	ls	189	LEU	C-N-CA	5.67	127.81	120.44
1	lF	89	GLY	CA-C-N	5.67	126.92	119.84
1	lF	89	GLY	C-N-CA	5.67	126.92	119.84
1	lI	134	ILE	N-CA-C	5.67	116.31	110.36
1	2l	85	PRO	N-CA-CB	5.67	108.24	103.25
1	2r	32	PHE	N-CA-C	-5.67	105.67	112.59
1	2t	133	TRP	CB-CG-CD1	5.67	135.40	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2v	148	THR	OG1-CB-CG2	-5.67	97.96	109.30
1	2J	156	GLY	O-C-N	-5.67	116.10	121.77
1	2T	165	VAL	N-CA-C	5.67	118.14	111.05
1	2W	98	GLU	CB-CG-CD	5.67	122.24	112.60
1	3B	71	GLU	O-C-N	-5.67	115.59	122.22
1	3L	169	TYR	O-C-N	-5.67	115.97	122.09
1	3P	155	GLN	CB-CG-CD	-5.67	102.96	112.60
1	3S	186	THR	N-CA-CB	5.67	118.45	110.12
1	3U	5	ASN	CA-CB-CG	5.67	118.27	112.60
1	3V	106	GLY	CA-C-N	5.67	128.15	120.44
1	3V	106	GLY	C-N-CA	5.67	128.15	120.44
1	44	135	ILE	O-C-N	-5.67	116.37	121.87
1	44	171	THR	CA-C-O	5.67	126.56	120.55
1	45	82	ARG	CD-NE-CZ	5.67	132.34	124.40
1	4j	100	ARG	CA-C-O	5.67	128.68	121.82
1	4o	36	VAL	N-CA-C	5.67	115.86	110.42
1	4q	62	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	4A	219	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	4E	7	GLN	CA-C-O	5.67	127.64	121.06
1	4R	200	THR	CA-CB-OG1	5.67	118.10	109.60
1	56	89	GLY	O-C-N	-5.67	116.10	121.77
1	5a	116	GLY	N-CA-C	5.67	119.50	112.64
1	5d	21	ASN	CA-CB-CG	-5.67	106.93	112.60
1	5h	187	GLU	N-CA-C	5.67	117.54	111.36
1	5j	79	GLU	CA-C-N	5.67	128.34	120.29
1	5j	79	GLU	C-N-CA	5.67	128.34	120.29
1	5j	197	ASP	CA-CB-CG	-5.67	106.93	112.60
1	5v	133	TRP	N-CA-C	5.67	117.14	111.07
1	5O	226	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	5Q	227	LYS	N-CA-CB	5.67	118.37	110.04
1	5R	63	GLN	CG-CD-NE2	-5.67	107.90	116.40
1	5X	82	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	60	226	HIS	CB-CG-CD2	-5.67	123.83	131.20
1	6b	72	THR	CA-C-N	5.67	129.60	120.30
1	6b	72	THR	C-N-CA	5.67	129.60	120.30
1	6q	142	VAL	CA-C-N	5.67	128.67	120.79
1	6q	142	VAL	C-N-CA	5.67	128.67	120.79
1	6x	64	ALA	CA-C-N	5.67	127.88	120.28
1	6x	64	ALA	C-N-CA	5.67	127.88	120.28
1	6y	140	LYS	CA-C-N	5.67	128.47	120.42
1	6y	140	LYS	C-N-CA	5.67	128.47	120.42
1	6H	179	GLN	CA-C-N	5.67	127.88	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6H	179	GLN	C-N-CA	5.67	127.88	120.28
1	6J	116	GLY	CA-C-N	5.67	127.88	120.28
1	6J	116	GLY	C-N-CA	5.67	127.88	120.28
1	6Q	66	MET	N-CA-C	5.67	117.14	111.07
1	6Y	100	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	77	32	PHE	CA-CB-CG	-5.67	108.13	113.80
1	77	114	GLN	CA-C-N	5.67	127.70	120.56
1	77	114	GLN	C-N-CA	5.67	127.70	120.56
1	7e	159	GLU	CA-C-N	5.67	125.62	119.78
1	7e	159	GLU	C-N-CA	5.67	125.62	119.78
1	7h	86	VAL	CA-CB-CG1	5.67	120.04	110.40
1	7n	216	THR	CA-CB-OG1	5.67	118.10	109.60
1	7t	40	PHE	CA-CB-CG	-5.67	108.13	113.80
1	7u	100	ARG	O-C-N	-5.67	116.05	122.68
1	7C	87	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	7D	206	GLY	CA-C-N	5.67	125.68	119.90
1	7D	206	GLY	C-N-CA	5.67	125.68	119.90
1	7F	206	GLY	O-C-N	-5.67	116.10	121.77
1	7K	15	ILE	CA-C-O	5.67	127.30	121.23
1	8i	131	LYS	CG-CD-CE	5.67	124.34	111.30
1	8z	198	CYS	O-C-N	-5.67	116.23	122.07
1	8R	73	ILE	O-C-N	5.67	127.47	121.91
1	8V	185	MET	O-C-N	-5.67	116.23	122.07
1	90	24	VAL	CA-CB-CG1	5.67	120.04	110.40
1	94	221	VAL	N-CA-CB	5.67	119.91	112.60
1	9o	97	ARG	CA-C-N	5.67	128.27	120.39
1	9o	97	ARG	C-N-CA	5.67	128.27	120.39
1	9X	70	LYS	CA-C-N	5.67	127.88	120.28
1	9X	70	LYS	C-N-CA	5.67	127.88	120.28
1	10	12	HIS	CA-CB-CG	-5.67	108.13	113.80
1	ab	54	THR	CA-C-N	5.67	127.81	120.44
1	ab	54	THR	C-N-CA	5.67	127.81	120.44
1	al	50	GLN	CA-CB-CG	5.67	125.44	114.10
1	as	81	ASP	CA-C-N	5.67	128.34	120.29
1	as	81	ASP	C-N-CA	5.67	128.34	120.29
1	as	90	PRO	O-C-N	-5.67	116.30	123.10
1	aC	30	LYS	O-C-N	5.67	128.13	122.12
1	aI	78	ALA	N-CA-C	5.67	117.14	111.07
1	aI	168	PHE	CA-C-O	5.67	126.95	121.00
1	15	96	MET	N-CA-CB	5.67	120.07	110.49
1	b9	193	ASN	CA-C-N	5.67	131.04	120.95
1	b9	193	ASN	C-N-CA	5.67	131.04	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bd	119	THR	N-CA-CB	5.67	119.11	110.44
1	bd	188	THR	CA-C-N	5.67	127.88	120.28
1	bd	188	THR	C-N-CA	5.67	127.88	120.28
1	bj	77	ALA	CA-C-N	5.67	127.88	120.28
1	bj	77	ALA	C-N-CA	5.67	127.88	120.28
1	bk	193	ASN	CB-CG-ND2	-5.67	107.90	116.40
1	by	44	SER	O-C-N	-5.67	114.88	122.19
1	bA	110	THR	CA-C-N	5.67	127.88	120.28
1	bA	110	THR	C-N-CA	5.67	127.88	120.28
1	bF	146	SER	CA-C-O	-5.67	115.50	120.60
1	bN	72	THR	O-C-N	-5.67	116.19	122.09
1	c5	21	ASN	CA-C-N	5.67	127.88	120.28
1	c5	21	ASN	C-N-CA	5.67	127.88	120.28
1	c5	87	HIS	CA-CB-CG	-5.67	108.13	113.80
1	cb	68	MET	N-CA-C	5.67	117.14	111.07
1	cD	77	ALA	CA-C-N	5.67	127.88	120.28
1	cD	77	ALA	C-N-CA	5.67	127.88	120.28
1	cD	200	THR	CA-C-O	5.67	126.53	120.24
1	cJ	164	TYR	CB-CA-C	5.67	119.88	110.81
1	1g	88	ALA	N-CA-C	5.67	118.39	111.82
1	cQ	116	GLY	O-C-N	5.67	130.07	122.70
1	d1	171	THR	N-CA-CB	5.67	118.45	110.12
1	d6	189	LEU	CA-C-N	5.67	127.88	120.28
1	d6	189	LEU	C-N-CA	5.67	127.88	120.28
1	d8	203	LYS	CA-C-O	-5.67	114.41	120.42
1	d9	189	LEU	CA-C-O	-5.67	114.87	120.82
1	de	213	GLU	O-C-N	5.67	128.13	122.12
1	dl	59	VAL	CA-C-N	5.67	127.48	120.34
1	dl	59	VAL	C-N-CA	5.67	127.48	120.34
1	dt	150	ILE	N-CA-C	5.67	116.40	110.62
1	dy	68	MET	N-CA-CB	5.67	118.55	110.16
1	dO	84	HIS	CB-CG-ND1	5.67	131.20	122.70
1	dV	210	THR	N-CA-C	5.67	118.46	109.96
1	1o	195	ASN	OD1-CG-ND2	5.67	128.27	122.60
1	ec	103	ASP	CA-C-N	5.67	128.52	120.53
1	ec	103	ASP	C-N-CA	5.67	128.52	120.53
1	eh	111	LEU	O-C-N	-5.67	116.11	122.12
1	ek	213	GLU	CA-C-O	-5.67	114.87	120.82
1	em	97	ARG	CA-C-N	5.67	128.54	120.49
1	em	97	ARG	C-N-CA	5.67	128.54	120.49
1	eA	142	VAL	CA-CB-CG1	5.67	120.03	110.40
1	eD	178	SER	N-CA-C	5.67	118.45	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f3	167	ARG	CG-CD-NE	-5.67	99.53	112.00
1	f4	18	ARG	CD-NE-CZ	5.67	132.34	124.40
1	f4	123	PRO	CA-C-O	5.67	127.30	121.23
1	f7	160	PRO	CA-C-N	5.67	127.81	120.44
1	f7	160	PRO	C-N-CA	5.67	127.81	120.44
1	fy	6	LEU	N-CA-C	5.67	117.13	111.07
1	fF	178	SER	N-CA-C	5.67	118.87	110.48
1	fX	171	THR	O-C-N	-5.67	116.11	122.12
1	g4	18	ARG	N-CA-C	5.67	117.46	111.28
1	0	15	ILE	CA-C-N	5.67	128.54	120.49
1	0	15	ILE	C-N-CA	5.67	128.54	120.49
1	c	197	ASP	O-C-N	-5.67	115.69	122.15
1	g	177	ALA	CB-CA-C	5.67	118.74	109.90
1	p	99	PRO	N-CA-C	5.67	124.15	112.47
1	S	50	GLN	CA-C-N	5.67	128.15	120.38
1	S	50	GLN	C-N-CA	5.67	128.15	120.38
1	g8	140	LYS	N-CA-C	5.67	117.26	111.14
1	h6	28	GLU	CB-CA-C	-5.67	101.38	110.79
1	h6	103	ASP	CA-CB-CG	-5.67	106.93	112.60
1	h7	98	GLU	CA-C-O	-5.67	114.72	119.76
1	h9	175	GLU	N-CA-C	5.67	117.61	110.24
1	hh	55	MET	O-C-N	-5.67	116.23	122.07
1	ht	70	LYS	O-C-N	-5.67	116.11	122.12
1	hA	12	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	hB	84	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	hD	192	GLN	O-C-N	-5.67	114.64	122.46
1	hL	213	GLU	CA-C-N	5.67	128.67	120.79
1	hL	213	GLU	C-N-CA	5.67	128.67	120.79
1	hM	226	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	hP	129	ILE	CB-CA-C	5.67	119.22	111.97
1	hR	208	ALA	CA-C-O	5.67	126.14	119.28
1	hZ	114	GLN	O-C-N	-5.67	116.11	122.12
1	i1	67	GLN	N-CA-C	5.67	117.54	111.36
1	i1	143	ARG	N-CA-C	5.67	117.46	111.28
1	i7	14	ALA	N-CA-C	5.67	122.87	110.80
1	i9	141	ILE	CA-C-O	5.67	127.18	121.17
1	im	145	TYR	O-C-N	-5.67	115.97	122.09
1	in	105	ALA	CA-C-N	5.67	133.00	121.78
1	in	105	ALA	C-N-CA	5.67	133.00	121.78
1	1P	129	ILE	O-C-N	-5.67	116.01	121.90
1	iu	75	GLU	O-C-N	-5.67	116.23	122.07
1	iF	168	PHE	CA-CB-CG	5.67	119.47	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iI	166	ASP	CA-C-N	5.67	127.87	120.28
1	iI	166	ASP	C-N-CA	5.67	127.87	120.28
1	iQ	201	ILE	CA-C-N	5.67	128.92	120.31
1	iQ	201	ILE	C-N-CA	5.67	128.92	120.31
1	jf	44	SER	CA-C-O	5.67	125.52	119.34
1	jj	176	GLN	CA-C-N	5.67	132.36	121.54
1	jj	176	GLN	C-N-CA	5.67	132.36	121.54
1	jr	127	GLY	CA-C-N	5.67	127.87	120.28
1	jr	127	GLY	C-N-CA	5.67	127.87	120.28
1	jt	38	PRO	CB-CA-C	5.67	120.91	111.56
1	ju	3	VAL	O-C-N	-5.67	116.94	123.00
1	jw	193	ASN	OD1-CG-ND2	-5.67	116.93	122.60
1	jA	97	ARG	N-CA-C	5.67	117.85	110.43
1	1X	57	ASN	N-CA-C	-5.67	105.09	112.23
1	jM	202	LEU	CA-C-N	5.67	127.87	120.28
1	jM	202	LEU	C-N-CA	5.67	127.87	120.28
1	jR	53	ASN	CA-CB-CG	-5.67	106.93	112.60
1	jW	193	ASN	OD1-CG-ND2	-5.67	116.93	122.60
1	k3	212	GLU	CB-CG-CD	-5.67	102.97	112.60
1	k4	18	ARG	CG-CD-NE	-5.67	99.53	112.00
1	k9	175	GLU	CA-C-O	5.67	126.54	120.70
1	kr	35	GLU	N-CA-C	5.67	117.13	111.07
1	22	154	ARG	NE-CZ-NH2	5.67	124.30	119.20
1	ku	45	GLU	N-CA-CB	5.67	118.46	109.51
1	kz	139	ASN	OD1-CG-ND2	-5.67	116.93	122.60
1	kR	11	VAL	N-CA-CB	5.67	120.80	112.35
1	kW	76	GLU	CA-C-N	5.67	127.87	120.28
1	kW	76	GLU	C-N-CA	5.67	127.87	120.28
1	l4	82	ARG	CB-CA-C	5.67	120.14	110.56
1	l8	18	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	la	120	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	lj	142	VAL	CA-C-O	5.67	127.16	121.27
1	lx	173	ARG	NE-CZ-NH2	5.67	124.30	119.20
1	lC	162	ARG	N-CA-CB	5.67	120.07	110.49
1	lG	77	ALA	CB-CA-C	-5.67	101.22	110.85
1	lL	175	GLU	O-C-N	-5.67	115.84	122.81
1	2k	181	VAL	CA-C-O	5.67	126.84	120.95
1	2r	129	ILE	CA-C-N	5.67	128.34	120.29
1	2r	129	ILE	C-N-CA	5.67	128.34	120.29
1	2r	129	ILE	CA-CB-CG2	5.67	120.13	110.50
1	2r	141	ILE	CA-C-O	-5.67	115.06	120.95
1	2Q	229	ARG	NH1-CZ-NH2	-5.67	111.93	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2R	12	HIS	ND1-CE1-NE2	5.67	114.07	108.40
1	2S	217	ALA	N-CA-C	5.67	118.67	110.28
1	2U	104	ILE	O-C-N	-5.67	116.36	121.91
1	32	217	ALA	CB-CA-C	5.67	119.34	109.65
1	33	165	VAL	N-CA-CB	-5.67	104.22	110.51
1	34	37	ILE	CA-CB-CG1	5.67	120.03	110.40
1	3b	155	GLN	CA-C-O	-5.67	114.20	120.38
1	3d	104	ILE	N-CA-C	5.67	116.40	110.62
1	3i	120	HIS	CB-CG-CD2	5.67	138.57	131.20
1	3w	64	ALA	CA-C-O	-5.67	114.87	120.82
1	3H	82	ARG	N-CA-C	5.67	120.26	113.23
1	3I	117	TRP	CE2-CD2-CE3	5.67	124.47	118.80
1	3O	98	GLU	CA-C-O	-5.67	115.10	119.46
1	3U	84	HIS	CA-C-O	-5.67	114.54	120.09
1	3X	200	THR	CA-C-N	5.67	127.70	120.56
1	3X	200	THR	C-N-CA	5.67	127.70	120.56
1	47	118	MET	O-C-N	-5.67	116.11	122.12
1	4l	207	PRO	CA-C-N	5.67	132.36	121.54
1	4l	207	PRO	C-N-CA	5.67	132.36	121.54
1	4o	222	GLY	O-C-N	-5.67	116.75	122.19
1	4o	229	ARG	NE-CZ-NH2	-5.67	114.10	119.20
1	4s	183	ASN	CA-CB-CG	5.67	118.27	112.60
1	4w	39	MET	O-C-N	-5.67	116.23	122.07
1	4y	84	HIS	N-CA-C	5.67	116.84	109.64
1	4y	170	LYS	CB-CA-C	-5.67	101.98	110.88
1	4N	11	VAL	CA-C-O	-5.67	116.02	121.63
1	4Q	79	GLU	CA-C-N	5.67	128.19	120.54
1	4Q	79	GLU	C-N-CA	5.67	128.19	120.54
1	4Q	107	THR	CA-CB-OG1	5.67	118.10	109.60
1	4S	155	GLN	O-C-N	-5.67	116.58	123.10
1	4U	143	ARG	NE-CZ-NH2	-5.67	114.10	119.20
1	53	137	GLY	CA-C-N	5.67	128.92	120.31
1	53	137	GLY	C-N-CA	5.67	128.92	120.31
1	5f	46	GLY	CA-C-N	5.67	128.88	120.95
1	5f	46	GLY	C-N-CA	5.67	128.88	120.95
1	5k	78	ALA	O-C-N	-5.67	116.23	122.07
1	5l	190	LEU	N-CA-C	5.67	117.13	111.07
1	5E	126	VAL	N-CA-C	5.67	118.13	111.05
1	5O	37	ILE	CA-C-N	5.67	126.92	119.84
1	5O	37	ILE	C-N-CA	5.67	126.92	119.84
1	5S	199	LYS	N-CA-C	5.67	117.13	111.07
1	5Y	212	GLU	O-C-N	-5.67	116.11	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Z	102	SER	N-CA-C	5.67	118.39	111.82
1	5Z	106	GLY	CA-C-N	5.67	128.34	120.29
1	5Z	106	GLY	C-N-CA	5.67	128.34	120.29
1	6f	230	VAL	N-CA-C	5.67	117.66	111.77
1	6w	73	ILE	N-CA-C	5.67	115.86	110.42
1	6G	110	THR	N-CA-CB	5.67	119.06	110.45
1	6H	213	GLU	N-CA-C	5.67	117.13	111.07
1	6L	21	ASN	CA-C-O	5.67	126.23	119.60
1	6M	105	ALA	O-C-N	-5.67	114.55	122.37
1	6P	52	LEU	CA-C-N	5.67	128.34	120.29
1	6P	52	LEU	C-N-CA	5.67	128.34	120.29
1	6Q	71	GLU	CB-CG-CD	5.67	122.23	112.60
1	6X	173	ARG	CD-NE-CZ	-5.67	116.47	124.40
1	77	15	ILE	N-CA-C	5.67	116.38	109.30
1	7c	212	GLU	CA-C-N	5.67	127.87	120.28
1	7c	212	GLU	C-N-CA	5.67	127.87	120.28
1	7c	216	THR	CA-C-O	5.67	126.34	119.31
1	7f	19	THR	N-CA-C	5.67	117.46	111.28
1	7q	112	GLN	CA-C-O	5.67	126.49	119.97
1	7O	128	GLU	CA-C-N	5.67	127.70	120.56
1	7O	128	GLU	C-N-CA	5.67	127.70	120.56
1	7S	24	VAL	N-CA-CB	5.67	117.18	110.55
1	7X	210	THR	CA-CB-OG1	5.67	118.10	109.60
1	81	55	MET	O-C-N	-5.67	116.11	122.12
1	84	84	HIS	CA-CB-CG	-5.67	108.13	113.80
1	8j	129	ILE	O-C-N	-5.67	116.10	121.94
1	8n	139	ASN	N-CA-C	5.67	118.19	111.33
1	9e	132	ARG	N-CA-CB	-5.67	101.80	110.01
1	9f	69	LEU	CB-CA-C	-5.67	101.98	110.88
1	9h	112	GLN	OE1-CD-NE2	-5.67	116.93	122.60
1	9i	185	MET	N-CA-C	5.67	117.46	111.28
1	9j	46	GLY	CA-C-N	5.67	129.84	120.94
1	9j	46	GLY	C-N-CA	5.67	129.84	120.94
1	9o	167	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
1	9G	219	GLN	CA-C-N	5.67	126.38	120.03
1	9G	219	GLN	C-N-CA	5.67	126.38	120.03
1	9G	226	HIS	CG-CD2-NE2	5.67	112.87	107.20
1	9Y	135	ILE	O-C-N	-5.67	116.37	121.87
1	a8	57	ASN	N-CA-C	5.67	119.29	112.38
1	af	90	PRO	N-CA-CB	5.67	108.28	103.35
1	aF	201	ILE	N-CA-C	5.67	115.86	110.42
1	aK	50	GLN	N-CA-CB	5.67	118.95	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aW	53	ASN	CA-C-O	-5.67	114.41	120.42
1	b6	66	MET	CA-C-N	5.67	128.34	120.29
1	b6	66	MET	C-N-CA	5.67	128.34	120.29
1	bo	93	PRO	N-CA-CB	-5.67	97.30	103.25
1	bp	169	TYR	CA-C-N	5.67	127.81	120.44
1	bp	169	TYR	C-N-CA	5.67	127.81	120.44
1	bI	66	MET	CA-C-N	5.67	128.15	120.44
1	bI	66	MET	C-N-CA	5.67	128.15	120.44
1	bT	36	VAL	N-CA-CB	5.67	118.25	110.54
1	ci	140	LYS	N-CA-CB	5.67	118.38	109.94
1	co	58	THR	N-CA-C	5.67	119.18	112.72
1	cp	209	ALA	CA-C-N	5.67	129.84	120.94
1	cp	209	ALA	C-N-CA	5.67	129.84	120.94
1	cs	178	SER	CA-C-N	5.67	128.14	120.38
1	cs	178	SER	C-N-CA	5.67	128.14	120.38
1	cQ	81	ASP	CA-C-O	5.67	126.35	119.38
1	1i	135	ILE	CB-CA-C	-5.67	103.08	112.26
1	db	125	PRO	CA-C-N	5.67	128.22	120.46
1	db	125	PRO	C-N-CA	5.67	128.22	120.46
1	dl	62	HIS	CG-CD2-NE2	-5.67	101.53	107.20
1	dl	124	ILE	N-CA-C	-5.67	101.71	107.89
1	dp	172	LEU	N-CA-C	5.67	117.91	111.11
1	dw	154	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
1	dN	72	THR	CA-C-O	5.67	126.43	120.42
1	dR	90	PRO	N-CA-C	5.67	119.43	111.33
1	1n	224	PRO	CA-C-N	5.67	132.52	121.41
1	1n	224	PRO	C-N-CA	5.67	132.52	121.41
1	e2	38	PRO	O-C-N	-5.67	114.99	122.64
1	en	158	LYS	CA-C-O	5.67	125.43	119.03
1	es	147	PRO	N-CA-CB	5.67	108.08	103.32
1	ex	194	ALA	N-CA-C	5.67	118.01	110.53
1	ex	219	GLN	N-CA-CB	5.67	119.11	109.87
1	eC	209	ALA	O-C-N	-5.67	116.12	122.75
1	eH	93	PRO	N-CA-C	5.67	120.50	111.26
1	eN	12	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	eP	69	LEU	CA-C-N	5.67	127.87	120.28
1	eP	69	LEU	C-N-CA	5.67	127.87	120.28
1	eZ	102	SER	O-C-N	-5.67	116.11	122.12
1	eZ	106	GLY	CA-C-O	5.67	125.32	118.86
1	f0	225	GLY	N-CA-C	-5.67	107.63	114.66
1	f6	205	LEU	CA-C-O	5.67	125.61	119.15
1	fg	135	ILE	CA-C-N	5.67	130.20	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fg	135	ILE	C-N-CA	5.67	130.20	121.19
1	fg	149	SER	N-CA-C	5.67	118.67	110.28
1	fl	113	GLU	O-C-N	-5.67	116.23	122.07
1	fs	73	ILE	N-CA-CB	5.67	116.80	110.51
1	fC	50	GLN	CA-C-N	5.67	127.87	120.28
1	fC	50	GLN	C-N-CA	5.67	127.87	120.28
1	1y	73	ILE	CB-CA-C	-5.67	104.49	112.14
1	fH	154	ARG	N-CA-C	5.67	122.87	110.80
1	fM	39	MET	O-C-N	-5.67	115.69	122.15
1	fS	186	THR	CA-C-N	5.67	128.13	120.65
1	fS	186	THR	C-N-CA	5.67	128.13	120.65
1	1A	39	MET	O-C-N	5.67	127.91	122.07
1	g7	191	VAL	CB-CA-C	-5.67	104.60	112.02
1	g	27	VAL	N-CA-C	5.67	116.40	110.62
1	r	150	ILE	N-CA-C	5.67	116.40	110.62
1	z	112	GLN	O-C-N	-5.67	115.69	122.15
1	z	134	ILE	N-CA-C	5.67	116.40	110.62
1	A	113	GLU	CA-C-O	-5.67	114.87	120.82
1	M	154	ARG	O-C-N	-5.67	116.31	123.17
1	N	211	LEU	CA-C-O	5.67	126.34	119.31
1	4	13	GLN	CA-C-O	5.67	126.61	120.32
1	9	195	ASN	CA-CB-CG	-5.67	106.93	112.60
1	gF	67	GLN	N-CA-C	5.67	117.45	111.28
1	hi	59	VAL	N-CA-C	5.67	116.58	108.93
1	hp	168	PHE	O-C-N	-5.67	116.23	122.07
1	hC	90	PRO	CA-C-N	5.67	129.68	122.37
1	hC	90	PRO	C-N-CA	5.67	129.68	122.37
1	hO	84	HIS	ND1-CE1-NE2	5.67	114.06	108.40
1	it	150	ILE	CA-C-O	5.67	126.84	120.95
1	1R	18	ARG	NE-CZ-NH2	-5.67	114.10	119.20
1	iN	41	SER	CA-C-O	-5.67	114.55	120.55
1	iY	128	GLU	CA-C-N	5.67	127.70	120.56
1	iY	128	GLU	C-N-CA	5.67	127.70	120.56
1	j5	75	GLU	CA-C-N	5.67	127.81	120.44
1	j5	75	GLU	C-N-CA	5.67	127.81	120.44
1	jz	67	GLN	N-CA-C	5.67	117.26	111.14
1	jF	227	LYS	N-CA-C	5.67	120.19	113.28
1	jR	32	PHE	CA-C-O	5.67	126.17	119.48
1	k6	82	ARG	NE-CZ-NH2	-5.67	114.10	119.20
1	k9	143	ARG	NE-CZ-NH2	-5.67	114.10	119.20
1	kb	163	ASP	O-C-N	-5.67	116.11	122.12
1	lQ	202	LEU	CA-C-N	5.67	127.87	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lQ	202	LEU	C-N-CA	5.67	127.87	120.28
1	2w	200	THR	CA-C-O	5.67	126.77	120.82
1	2w	209	ALA	N-CA-C	5.67	118.06	110.35
1	2H	195	ASN	N-CA-C	5.67	122.33	109.81
1	2R	81	ASP	N-CA-C	5.67	117.13	111.07
1	31	128	GLU	N-CA-C	5.67	118.19	111.33
1	39	59	VAL	CB-CA-C	-5.67	104.45	111.08
1	3m	84	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	3y	135	ILE	CB-CA-C	-5.67	104.49	112.14
1	3H	62	HIS	CA-CB-CG	-5.67	108.14	113.80
1	47	12	HIS	CB-CG-ND1	5.67	131.20	122.70
1	4R	70	LYS	CG-CD-CE	5.67	124.33	111.30
1	5k	58	THR	N-CA-C	5.67	119.92	112.89
1	5k	136	LEU	CA-C-N	5.67	126.27	119.98
1	5k	136	LEU	C-N-CA	5.67	126.27	119.98
1	5k	153	ILE	N-CA-C	5.67	117.79	109.63
1	61	126	VAL	CA-C-O	-5.67	114.47	120.64
1	6g	171	THR	CA-C-N	5.67	128.44	120.28
1	6g	171	THR	C-N-CA	5.67	128.44	120.28
1	6u	112	GLN	CB-CG-CD	5.67	122.23	112.60
1	7J	100	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	82	167	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	8F	22	ALA	N-CA-C	5.67	118.39	111.82
1	9r	223	GLY	N-CA-C	5.67	118.80	112.00
1	9B	61	GLY	O-C-N	-5.67	115.57	122.71
1	9C	91	ILE	CA-CB-CG1	5.67	120.03	110.40
1	9W	181	VAL	CA-C-N	5.67	127.80	120.44
1	9W	181	VAL	C-N-CA	5.67	127.80	120.44
1	10	41	SER	O-C-N	-5.67	116.11	122.12
1	af	62	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	ap	148	THR	O-C-N	-5.67	116.56	123.30
1	at	6	LEU	N-CA-CB	5.67	120.06	110.49
1	ay	151	LEU	N-CA-C	5.67	119.29	112.38
1	aV	114	GLN	N-CA-C	5.67	117.13	111.07
1	bB	58	THR	CA-CB-CG2	5.67	120.13	110.50
1	bS	196	PRO	N-CA-C	5.67	124.14	112.47
1	bV	226	HIS	O-C-N	-5.67	116.17	122.86
1	c2	84	HIS	CA-C-O	-5.67	114.30	119.62
1	c4	56	LEU	N-CA-CB	5.67	118.45	110.12
1	cm	228	ALA	O-C-N	5.67	128.03	122.19
1	cn	214	MET	N-CA-C	-5.67	105.02	111.14
1	cB	75	GLU	N-CA-C	5.67	117.45	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cG	90	PRO	N-CA-CB	-5.67	96.45	102.85
1	cM	120	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	d0	120	HIS	CG-CD2-NE2	5.67	112.86	107.20
1	d2	128	GLU	CB-CA-C	-5.67	101.22	110.85
1	du	132	ARG	N-CA-C	5.67	117.13	111.07
1	dA	51	ASP	O-C-N	-5.67	116.11	122.12
1	dG	163	ASP	CA-CB-CG	-5.67	106.94	112.60
1	dQ	211	LEU	CA-C-N	5.67	127.87	120.28
1	dQ	211	LEU	C-N-CA	5.67	127.87	120.28
1	dW	151	LEU	CA-C-O	5.67	126.36	119.11
1	e8	226	HIS	ND1-CE1-NE2	5.67	114.06	108.40
1	er	120	HIS	O-C-N	-5.67	115.57	122.82
1	fq	207	PRO	CA-C-N	5.67	131.27	122.49
1	fq	207	PRO	C-N-CA	5.67	131.27	122.49
1	fu	183	ASN	CA-CB-CG	-5.67	106.94	112.60
1	fB	119	THR	O-C-N	-5.67	115.39	122.24
1	fB	173	ARG	NE-CZ-NH1	5.67	127.17	121.50
1	fK	168	PHE	CA-C-N	5.67	128.92	120.31
1	fK	168	PHE	C-N-CA	5.67	128.92	120.31
1	fQ	148	THR	CA-C-N	5.67	132.36	121.54
1	fQ	148	THR	C-N-CA	5.67	132.36	121.54
1	g0	3	VAL	O-C-N	-5.67	116.62	123.02
1	gf	166	ASP	N-CA-CB	-5.66	101.64	109.91
1	gn	13	GLN	O-C-N	-5.66	115.83	122.96
1	go	166	ASP	CA-C-O	-5.66	114.87	120.82
1	gs	145	TYR	CA-C-N	5.66	128.35	120.65
1	gs	145	TYR	C-N-CA	5.66	128.35	120.65
1	gt	33	SER	O-C-N	-5.66	117.13	121.55
1	gt	120	HIS	CB-CG-CD2	5.66	138.56	131.20
1	gA	42	ALA	CA-C-O	5.66	126.50	120.10
1	1G	101	GLY	CA-C-O	5.66	126.66	120.66
1	hd	5	ASN	N-CA-C	-5.66	100.69	109.24
1	hz	206	GLY	CA-C-N	5.66	125.36	119.64
1	hz	206	GLY	C-N-CA	5.66	125.36	119.64
1	hE	211	LEU	CA-C-N	5.66	128.19	120.54
1	hE	211	LEU	C-N-CA	5.66	128.19	120.54
1	hM	147	PRO	N-CA-C	5.66	120.11	111.11
1	hP	50	GLN	N-CA-C	5.66	117.45	111.28
1	hT	172	LEU	N-CA-C	-5.66	105.87	112.89
1	i8	152	ASP	O-C-N	-5.66	115.39	122.24
1	ii	188	THR	N-CA-C	5.66	117.91	111.11
1	im	200	THR	N-CA-C	5.66	117.45	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	6	LEU	N-CA-C	-5.66	100.55	109.50
1	ir	143	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	iJ	205	LEU	CA-C-N	5.66	130.76	121.87
1	iJ	205	LEU	C-N-CA	5.66	130.76	121.87
1	iS	135	ILE	CA-C-N	5.66	128.66	120.79
1	iS	135	ILE	C-N-CA	5.66	128.66	120.79
1	iZ	85	PRO	O-C-N	-5.66	115.80	122.99
1	j6	54	THR	N-CA-CB	5.66	118.44	110.12
1	j6	87	HIS	ND1-CE1-NE2	5.66	114.06	108.40
1	1V	80	TRP	N-CA-CB	-5.66	101.80	110.12
1	jn	33	SER	O-C-N	-5.66	115.47	121.30
1	jO	54	THR	N-CA-CB	5.66	118.22	110.01
1	k5	80	TRP	N-CA-C	5.66	117.91	111.11
1	k9	198	CYS	O-C-N	-5.66	116.12	122.12
1	kv	19	THR	N-CA-CB	5.66	118.45	110.12
1	lf	218	CYS	O-C-N	-5.66	116.27	122.67
1	lg	78	ALA	N-CA-C	5.66	117.45	111.28
1	lh	221	VAL	N-CA-CB	-5.66	105.96	111.57
1	ln	26	VAL	N-CA-CB	5.66	118.24	110.54
1	lt	169	TYR	O-C-N	-5.66	116.12	122.12
1	lu	131	LYS	O-C-N	-5.66	116.12	122.12
1	lE	155	GLN	N-CA-C	-5.66	100.44	109.96
1	2c	4	GLN	O-C-N	-5.66	116.64	123.27
1	2j	199	LYS	CA-C-N	5.66	130.19	121.19
1	2j	199	LYS	C-N-CA	5.66	130.19	121.19
1	2r	70	LYS	O-C-N	-5.66	116.12	122.12
1	2r	229	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	2y	203	LYS	CB-CA-C	5.66	120.19	110.79
1	2J	173	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	2M	140	LYS	CA-C-O	5.66	126.77	120.82
1	2T	51	ASP	CB-CA-C	-5.66	101.39	110.79
1	2T	117	TRP	CA-C-O	5.66	126.77	120.82
1	3o	83	LEU	N-CA-C	5.66	117.91	111.11
1	3u	162	ARG	N-CA-C	5.66	117.45	111.28
1	3y	82	ARG	O-C-N	-5.66	116.12	122.12
1	3Q	70	LYS	N-CA-C	5.66	119.91	112.89
1	3S	205	LEU	N-CA-C	5.66	117.53	111.36
1	3S	209	ALA	CA-C-O	-5.66	114.79	120.96
1	46	168	PHE	CA-CB-CG	5.66	119.46	113.80
1	4y	95	GLN	N-CA-CB	-5.66	102.26	110.70
1	4J	127	GLY	O-C-N	-5.66	116.28	122.68
1	4O	132	ARG	CG-CD-NE	-5.66	99.54	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4T	89	GLY	CA-C-N	5.66	126.92	119.84
1	4T	89	GLY	C-N-CA	5.66	126.92	119.84
1	4U	209	ALA	N-CA-C	5.66	118.01	110.53
1	55	199	LYS	CA-CB-CG	5.66	125.43	114.10
1	5j	161	PHE	N-CA-C	5.66	122.86	110.80
1	5k	29	GLU	N-CA-C	5.66	117.45	111.28
1	5w	93	PRO	N-CA-C	5.66	124.14	112.47
1	5I	154	ARG	NE-CZ-NH2	-5.66	114.10	119.20
1	5K	34	PRO	CB-CA-C	5.66	118.22	110.52
1	5N	190	LEU	N-CA-C	5.66	117.91	111.11
1	5O	112	GLN	O-C-N	-5.66	116.12	122.12
1	5O	120	HIS	CA-CB-CG	5.66	119.46	113.80
1	67	96	MET	N-CA-C	5.66	122.86	110.80
1	6j	92	GLU	O-C-N	-5.66	115.39	120.71
1	6k	45	GLU	CB-CA-C	5.66	118.75	110.26
1	6r	211	LEU	CA-C-O	5.66	126.48	119.97
1	6A	9	GLN	CB-CA-C	-5.66	99.04	109.46
1	70	31	ALA	CA-C-N	-5.66	114.65	122.30
1	70	31	ALA	C-N-CA	-5.66	114.65	122.30
1	73	226	HIS	ND1-CE1-NE2	5.66	114.06	108.40
1	7b	140	LYS	CA-C-N	5.66	128.46	120.42
1	7b	140	LYS	C-N-CA	5.66	128.46	120.42
1	7o	193	ASN	CA-CB-CG	-5.66	106.94	112.60
1	7p	230	VAL	O-C-N	-5.66	117.36	123.14
1	7y	35	GLU	O-C-N	-5.66	114.84	122.43
1	7A	185	MET	O-C-N	-5.66	116.12	122.12
1	7P	194	ALA	O-C-N	-5.66	115.74	122.65
1	7S	44	SER	CA-C-O	-5.66	114.66	121.34
1	7W	204	ALA	N-CA-C	5.66	117.45	111.28
1	86	141	ILE	CA-C-N	5.66	128.22	120.46
1	86	141	ILE	C-N-CA	5.66	128.22	120.46
1	88	155	GLN	N-CA-CB	5.66	118.35	109.69
1	8a	171	THR	CA-C-N	5.66	127.87	120.28
1	8a	171	THR	C-N-CA	5.66	127.87	120.28
1	8d	217	ALA	CA-C-N	5.66	132.36	121.54
1	8d	217	ALA	C-N-CA	5.66	132.36	121.54
1	8n	132	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	8o	133	TRP	CA-C-N	5.66	128.22	120.46
1	8o	133	TRP	C-N-CA	5.66	128.22	120.46
1	8w	158	LYS	N-CA-C	5.66	120.18	113.16
1	8L	85	PRO	CB-CA-C	5.66	121.04	112.55
1	8W	62	HIS	ND1-CE1-NE2	5.66	114.06	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Z	123	PRO	N-CA-C	5.66	120.10	111.15
1	94	141	ILE	CA-C-N	5.66	128.46	120.42
1	94	141	ILE	C-N-CA	5.66	128.46	120.42
1	97	21	ASN	O-C-N	-5.66	115.59	122.22
1	98	228	ALA	N-CA-C	5.66	118.49	110.50
1	99	208	ALA	CA-C-N	5.66	128.88	120.95
1	99	208	ALA	C-N-CA	5.66	128.88	120.95
1	9k	77	ALA	N-CA-C	5.66	117.45	111.28
1	9o	81	ASP	CA-C-O	5.66	126.48	119.97
1	9w	198	CYS	CA-C-O	5.66	126.55	120.55
1	9D	132	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	9J	113	GLU	N-CA-CB	5.66	118.22	110.01
1	9K	224	PRO	CA-C-O	-5.66	115.32	121.27
1	a8	193	ASN	OD1-CG-ND2	5.66	128.26	122.60
1	ae	124	ILE	O-C-N	-5.66	117.04	121.46
1	ah	48	THR	N-CA-CB	5.66	118.38	110.11
1	ak	165	VAL	CA-CB-CG2	-5.66	100.77	110.40
1	aU	141	ILE	O-C-N	-5.66	116.00	121.83
1	b6	63	GLN	N-CA-C	5.66	117.45	111.28
1	16	141	ILE	CA-C-N	5.66	128.51	120.53
1	16	141	ILE	C-N-CA	5.66	128.51	120.53
1	bj	119	THR	CA-CB-OG1	5.66	118.09	109.60
1	bn	37	ILE	N-CA-C	5.66	119.75	112.67
1	bp	87	HIS	CG-CD2-NE2	5.66	112.86	107.20
1	br	172	LEU	CA-C-O	5.66	126.48	119.97
1	bu	135	ILE	O-C-N	-5.66	116.38	121.87
1	bK	13	GLN	N-CA-C	-5.66	101.31	110.32
1	bK	130	TYR	CA-C-N	5.66	127.87	120.28
1	bK	130	TYR	C-N-CA	5.66	127.87	120.28
1	bQ	125	PRO	N-CA-CB	-5.66	97.30	103.25
1	bR	94	GLY	CA-C-N	5.66	131.75	122.07
1	bR	94	GLY	C-N-CA	5.66	131.75	122.07
1	bT	18	ARG	NE-CZ-NH2	5.66	124.30	119.20
1	1b	163	ASP	N-CA-C	5.66	117.45	111.28
1	bY	92	GLU	CA-C-N	5.66	125.99	119.93
1	bY	92	GLU	C-N-CA	5.66	125.99	119.93
1	bZ	219	GLN	O-C-N	-5.66	115.84	122.81
1	c4	48	THR	N-CA-CB	5.66	117.59	109.78
1	1d	80	TRP	N-CA-C	5.66	117.45	111.28
1	1d	206	GLY	CA-C-N	5.66	126.92	119.84
1	1d	206	GLY	C-N-CA	5.66	126.92	119.84
1	cj	104	ILE	CA-C-O	-5.66	114.35	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	184	TRP	CA-C-N	5.66	132.36	121.54
1	cv	184	TRP	C-N-CA	5.66	132.36	121.54
1	cC	74	ASN	CA-C-N	5.66	127.87	120.28
1	cC	74	ASN	C-N-CA	5.66	127.87	120.28
1	cR	62	HIS	N-CA-CB	5.66	120.06	110.49
1	cW	129	ILE	CB-CA-C	-5.66	104.63	111.88
1	de	85	PRO	CA-C-O	-5.66	115.32	121.27
1	dg	230	VAL	CA-C-O	5.66	127.71	120.97
1	dl	132	ARG	NE-CZ-NH2	-5.66	114.10	119.20
1	dv	15	ILE	N-CA-C	5.66	116.38	109.30
1	dF	170	LYS	CA-C-N	5.66	127.87	120.28
1	dF	170	LYS	C-N-CA	5.66	127.87	120.28
1	dG	135	ILE	N-CA-CB	5.66	121.02	110.77
1	dN	53	ASN	CA-CB-CG	-5.66	106.94	112.60
1	dP	208	ALA	CA-C-N	5.66	131.77	121.97
1	dP	208	ALA	C-N-CA	5.66	131.77	121.97
1	dR	133	TRP	CB-CG-CD2	-5.66	118.87	126.80
1	ea	199	LYS	CG-CD-CE	5.66	124.33	111.30
1	eg	148	THR	N-CA-CB	5.66	118.38	109.83
1	et	163	ASP	CA-C-N	5.66	127.80	120.44
1	et	163	ASP	C-N-CA	5.66	127.80	120.44
1	eJ	3	VAL	O-C-N	-5.66	117.02	122.97
1	eJ	53	ASN	CA-CB-CG	-5.66	106.94	112.60
1	eJ	195	ASN	O-C-N	-5.66	114.81	121.32
1	eP	82	ARG	CA-C-O	5.66	126.18	119.67
1	eV	230	VAL	O-C-N	-5.66	117.04	123.10
1	fr	195	ASN	CA-CB-CG	5.66	118.26	112.60
1	fB	113	GLU	N-CA-C	5.66	117.53	111.36
1	fR	94	GLY	CA-C-O	5.66	125.27	119.10
1	h	66	MET	O-C-N	-5.66	115.59	122.22
1	h	87	HIS	O-C-N	-5.66	117.14	123.48
1	j	95	GLN	CA-C-O	-5.66	114.75	121.66
1	j	203	LYS	CA-C-N	5.66	128.92	120.31
1	j	203	LYS	C-N-CA	5.66	128.92	120.31
1	m	4	GLN	CB-CA-C	-5.66	99.92	109.72
1	3	24	VAL	CB-CA-C	5.66	119.46	112.04
1	T	213	GLU	CB-CG-CD	5.66	122.23	112.60
1	U	79	GLU	O-C-N	-5.66	116.20	122.09
1	6	11	VAL	N-CA-C	5.66	116.44	108.17
1	9	53	ASN	CA-C-N	5.66	127.80	120.44
1	9	53	ASN	C-N-CA	5.66	127.80	120.44
1	gb	138	LEU	N-CA-CB	5.66	118.44	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gd	93	PRO	CA-C-N	5.66	131.00	120.87
1	gd	93	PRO	C-N-CA	5.66	131.00	120.87
1	gv	60	GLY	O-C-N	-5.66	115.34	122.70
1	gx	35	GLU	CA-C-O	5.66	126.75	120.63
1	h5	4	GLN	CA-C-O	5.66	127.38	121.15
1	hg	219	GLN	CB-CG-CD	-5.66	102.97	112.60
1	hF	53	ASN	N-CA-C	5.66	117.45	111.28
1	hS	184	TRP	O-C-N	-5.66	115.31	122.27
1	1M	151	LEU	N-CA-CB	-5.66	101.61	110.44
1	hX	167	ARG	N-CA-C	5.66	118.39	111.82
1	i1	165	VAL	CA-C-O	5.66	126.84	120.95
1	i9	204	ALA	CA-C-O	-5.66	113.46	119.97
1	iB	16	SER	CA-C-O	-5.66	114.72	119.76
1	iB	88	ALA	CB-CA-C	-5.66	101.39	110.79
1	iR	32	PHE	N-CA-CB	5.66	119.75	111.54
1	j3	146	SER	N-CA-C	5.66	122.32	109.81
1	j7	186	THR	CA-CB-OG1	5.66	118.09	109.60
1	je	56	LEU	O-C-N	-5.66	116.20	122.09
1	jf	124	ILE	N-CA-C	-5.66	101.28	107.73
1	jH	153	ILE	N-CA-C	5.66	116.38	109.30
1	jO	177	ALA	O-C-N	-5.66	115.06	122.59
1	kq	90	PRO	N-CD-CG	5.66	111.69	103.20
1	kM	62	HIS	CB-CG-CD2	-5.66	123.84	131.20
1	24	159	GLU	N-CA-C	5.66	116.11	109.60
1	ld	210	THR	CA-C-O	-5.66	114.79	120.96
1	lu	17	PRO	CB-CA-C	5.66	120.38	112.11
1	lA	52	LEU	CA-C-N	5.66	127.87	120.28
1	lA	52	LEU	C-N-CA	5.66	127.87	120.28
1	2E	229	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	34	198	CYS	O-C-N	-5.66	115.69	122.15
1	37	100	ARG	NE-CZ-NH2	-5.66	114.10	119.20
1	3g	152	ASP	CA-C-N	5.66	128.68	120.98
1	3g	152	ASP	C-N-CA	5.66	128.68	120.98
1	3u	51	ASP	CA-C-O	5.66	126.42	120.42
1	3U	26	VAL	O-C-N	-5.66	116.01	121.90
1	44	117	TRP	CA-C-O	5.66	126.77	120.82
1	4n	100	ARG	CA-C-N	5.66	126.37	120.03
1	4n	100	ARG	C-N-CA	5.66	126.37	120.03
1	4q	59	VAL	N-CA-C	5.66	116.38	109.30
1	4B	101	GLY	CA-C-O	-5.66	114.28	120.40
1	5R	145	TYR	CA-C-N	5.66	128.26	120.39
1	5R	145	TYR	C-N-CA	5.66	128.26	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	60	29	GLU	N-CA-C	5.66	120.32	113.41
1	67	148	THR	CA-CB-OG1	5.66	118.09	109.60
1	6r	97	ARG	O-C-N	-5.66	117.36	123.42
1	6t	50	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	6M	72	THR	CA-C-N	5.66	128.22	120.46
1	6M	72	THR	C-N-CA	5.66	128.22	120.46
1	7b	183	ASN	N-CA-C	5.66	117.13	111.07
1	7A	193	ASN	OD1-CG-ND2	-5.66	116.94	122.60
1	7T	49	PRO	N-CA-C	5.66	124.13	112.47
1	83	128	GLU	N-CA-C	5.66	117.13	111.07
1	86	129	ILE	CA-CB-CG1	5.66	120.03	110.40
1	8D	179	GLN	CA-C-N	5.66	128.43	120.28
1	8D	179	GLN	C-N-CA	5.66	128.43	120.28
1	8R	181	VAL	CA-C-N	5.66	127.87	120.28
1	8R	181	VAL	C-N-CA	5.66	127.87	120.28
1	91	76	GLU	CA-C-N	5.66	127.87	120.28
1	91	76	GLU	C-N-CA	5.66	127.87	120.28
1	9h	105	ALA	O-C-N	-5.66	114.56	122.37
1	9z	226	HIS	CB-CA-C	-5.66	101.42	110.14
1	9P	132	ARG	N-CA-CB	5.66	118.44	110.12
1	a4	194	ALA	N-CA-C	5.66	117.83	110.53
1	aE	161	PHE	N-CA-C	5.66	118.39	111.82
1	aT	106	GLY	O-C-N	-5.66	116.21	122.55
1	aW	1	PRO	CB-CA-C	5.66	120.86	110.10
1	aX	144	MET	O-C-N	-5.66	116.24	122.07
1	b9	75	GLU	CA-C-O	5.66	126.42	120.42
1	17	213	GLU	O-C-N	5.66	128.12	122.12
1	18	143	ARG	O-C-N	-5.66	116.12	122.12
1	cl	105	ALA	O-C-N	5.66	129.23	122.27
1	cH	97	ARG	O-C-N	-5.66	117.85	123.46
1	cO	146	SER	N-CA-CB	5.66	120.45	110.37
1	cQ	75	GLU	N-CA-C	5.66	117.13	111.07
1	d9	55	MET	N-CA-C	5.66	117.45	111.28
1	dn	70	LYS	O-C-N	-5.66	116.12	122.12
1	dr	31	ALA	O-C-N	-5.66	115.06	122.59
1	dz	23	TRP	N-CA-CB	-5.66	101.80	110.12
1	1m	40	PHE	CA-C-N	5.66	127.80	120.44
1	1m	40	PHE	C-N-CA	5.66	127.80	120.44
1	ec	182	LYS	CA-CB-CG	-5.66	102.78	114.10
1	eP	159	GLU	N-CA-C	5.66	117.95	110.36
1	eR	85	PRO	N-CA-C	5.66	119.97	111.14
1	f5	114	GLN	OE1-CD-NE2	-5.66	116.94	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	22	ALA	N-CA-C	5.66	118.18	111.33
1	f7	219	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	fi	30	LYS	CA-C-N	5.66	132.35	121.54
1	fi	30	LYS	C-N-CA	5.66	132.35	121.54
1	fw	84	HIS	CB-CG-ND1	5.66	131.19	122.70
1	fD	72	THR	CA-C-N	5.66	128.22	120.46
1	fD	72	THR	C-N-CA	5.66	128.22	120.46
1	fG	125	PRO	N-CA-CB	-5.66	98.03	102.28
1	fG	198	CYS	N-CA-C	5.66	117.45	111.28
1	fZ	167	ARG	NE-CZ-NH2	-5.66	114.10	119.20
1	1B	153	ILE	N-CA-C	5.66	118.73	109.78
1	c	180	GLU	CA-C-O	5.66	126.75	120.63
1	M	95	GLN	CB-CG-CD	5.66	122.22	112.60
1	gp	5	ASN	CA-CB-CG	-5.66	106.94	112.60
1	gp	86	VAL	CA-C-O	5.66	125.62	120.30
1	gr	66	MET	CG-SD-CE	-5.66	88.44	100.90
1	gv	3	VAL	N-CA-C	5.66	116.63	108.48
1	gC	29	GLU	CB-CA-C	-5.66	100.57	109.34
1	gI	14	ALA	N-CA-CB	-5.66	101.72	110.04
1	gI	177	ALA	N-CA-CB	5.66	118.29	109.97
1	gJ	229	ARG	CA-C-N	5.66	132.16	121.97
1	gJ	229	ARG	C-N-CA	5.66	132.16	121.97
1	gK	212	GLU	O-C-N	-5.66	116.12	122.12
1	gZ	160	PRO	N-CA-C	5.66	120.11	111.11
1	hl	171	THR	O-C-N	-5.66	116.12	122.12
1	hm	80	TRP	CA-C-O	-5.66	114.55	120.55
1	hv	182	LYS	N-CA-C	5.66	117.13	111.07
1	hA	208	ALA	CA-C-N	5.66	129.83	120.94
1	hA	208	ALA	C-N-CA	5.66	129.83	120.94
1	hF	183	ASN	CA-CB-CG	-5.66	106.94	112.60
1	hR	159	GLU	N-CA-C	5.66	116.78	109.65
1	ia	126	VAL	O-C-N	-5.66	116.15	121.87
1	ic	34	PRO	N-CA-CB	5.66	109.19	103.25
1	iq	201	ILE	N-CA-C	5.66	117.07	110.62
1	iv	67	GLN	OE1-CD-NE2	-5.66	116.94	122.60
1	iE	175	GLU	N-CA-C	5.66	117.91	109.59
1	iG	56	LEU	CA-C-N	5.66	127.86	120.28
1	iG	56	LEU	C-N-CA	5.66	127.86	120.28
1	1R	170	LYS	N-CA-C	5.66	117.53	111.36
1	iL	226	HIS	CA-CB-CG	-5.66	108.14	113.80
1	iS	162	ARG	N-CA-C	5.66	117.90	111.11
1	j0	183	ASN	N-CA-C	5.66	117.45	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1T	215	MET	CA-C-N	5.66	131.26	122.49
1	1T	215	MET	C-N-CA	5.66	131.26	122.49
1	j7	55	MET	CA-C-O	5.66	126.42	120.42
1	jd	186	THR	OG1-CB-CG2	-5.66	97.98	109.30
1	jp	76	GLU	CA-C-N	5.66	127.86	120.28
1	jp	76	GLU	C-N-CA	5.66	127.86	120.28
1	jp	169	TYR	CA-C-O	5.66	126.55	120.55
1	js	85	PRO	O-C-N	5.66	130.28	122.64
1	jF	80	TRP	N-CA-C	-5.66	105.19	111.36
1	jI	112	GLN	CB-CG-CD	5.66	122.22	112.60
1	jY	160	PRO	CA-C-N	5.66	132.35	121.54
1	jY	160	PRO	C-N-CA	5.66	132.35	121.54
1	k2	229	ARG	NE-CZ-NH2	-5.66	114.11	119.20
1	kc	184	TRP	N-CA-C	5.66	117.45	111.28
1	kh	162	ARG	N-CA-C	5.66	118.18	111.33
1	ko	188	THR	CA-C-N	5.66	128.91	120.31
1	ko	188	THR	C-N-CA	5.66	128.91	120.31
1	ky	151	LEU	CA-C-O	5.66	126.55	120.55
1	kC	171	THR	CA-C-N	5.66	127.87	120.28
1	kC	171	THR	C-N-CA	5.66	127.87	120.28
1	23	14	ALA	CA-C-N	5.66	128.09	120.50
1	23	14	ALA	C-N-CA	5.66	128.09	120.50
1	kE	184	TRP	CA-C-N	5.66	128.13	120.38
1	kE	184	TRP	C-N-CA	5.66	128.13	120.38
1	kF	9	GLN	CA-C-N	5.66	129.15	121.05
1	kF	9	GLN	C-N-CA	5.66	129.15	121.05
1	kG	58	THR	CA-C-N	5.66	128.08	120.50
1	kG	58	THR	C-N-CA	5.66	128.08	120.50
1	kS	182	LYS	N-CA-C	5.66	117.53	111.36
1	ln	31	ALA	N-CA-C	5.66	119.15	111.17
1	lL	165	VAL	CA-C-N	5.66	127.80	120.44
1	lL	165	VAL	C-N-CA	5.66	127.80	120.44
1	lR	47	ALA	N-CA-C	5.66	118.27	110.35
1	2j	113	GLU	CB-CA-C	5.66	120.19	110.79
1	2u	146	SER	O-C-N	-5.66	115.37	120.92
1	2w	51	ASP	CA-C-N	5.66	127.86	120.28
1	2w	51	ASP	C-N-CA	5.66	127.86	120.28
1	2x	120	HIS	CA-CB-CG	5.66	119.46	113.80
1	2Q	87	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	2Y	64	ALA	CA-C-O	5.66	126.42	120.42
1	37	39	MET	CG-SD-CE	-5.66	88.45	100.90
1	37	120	HIS	CA-CB-CG	5.66	119.46	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3e	18	ARG	N-CA-C	5.66	117.13	111.07
1	3e	69	LEU	CA-C-O	5.66	126.55	120.55
1	3j	229	ARG	CB-CA-C	5.66	119.73	109.37
1	3l	180	GLU	N-CA-C	5.66	118.22	111.71
1	3F	52	LEU	N-CA-C	5.66	117.53	111.36
1	3P	128	GLU	CA-C-O	5.66	126.52	120.24
1	3V	68	MET	N-CA-CB	5.66	118.44	110.12
1	47	84	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	4m	136	LEU	N-CA-C	5.66	118.22	111.71
1	4o	181	VAL	CA-CB-CG2	-5.66	100.78	110.40
1	4v	41	SER	CA-C-N	5.66	127.86	120.28
1	4v	41	SER	C-N-CA	5.66	127.86	120.28
1	4T	187	GLU	CA-C-O	-5.66	114.88	120.82
1	4U	124	ILE	O-C-N	-5.66	116.64	121.57
1	4U	179	GLN	CA-C-N	5.66	128.18	120.54
1	4U	179	GLN	C-N-CA	5.66	128.18	120.54
1	4Z	176	GLN	CG-CD-NE2	5.66	124.89	116.40
1	56	115	ILE	CA-C-N	5.66	126.39	119.99
1	56	115	ILE	C-N-CA	5.66	126.39	119.99
1	5u	154	ARG	CB-CG-CD	5.66	124.32	111.30
1	62	175	GLU	CA-C-O	5.66	127.14	120.69
1	6d	229	ARG	CA-C-N	5.66	130.21	123.19
1	6d	229	ARG	C-N-CA	5.66	130.21	123.19
1	6f	188	THR	CA-C-N	5.66	127.87	120.28
1	6f	188	THR	C-N-CA	5.66	127.87	120.28
1	6g	167	ARG	N-CA-C	5.66	117.90	111.11
1	6l	22	ALA	CB-CA-C	5.66	119.77	110.88
1	6S	132	ARG	NE-CZ-NH2	-5.66	114.11	119.20
1	75	52	LEU	N-CA-CB	5.66	118.44	110.12
1	79	181	VAL	N-CA-C	-5.66	105.00	110.72
1	7c	180	GLU	CA-C-N	5.66	127.81	120.56
1	7c	180	GLU	C-N-CA	5.66	127.81	120.56
1	7f	143	ARG	CA-C-N	5.66	128.13	120.38
1	7f	143	ARG	C-N-CA	5.66	128.13	120.38
1	7n	190	LEU	CB-CA-C	-5.66	101.99	110.88
1	7w	24	VAL	CA-C-N	5.66	127.86	120.28
1	7w	24	VAL	C-N-CA	5.66	127.86	120.28
1	7x	67	GLN	N-CA-C	5.66	117.13	111.07
1	7S	214	MET	O-C-N	-5.66	116.12	122.12
1	7T	12	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	80	13	GLN	O-C-N	-5.66	117.36	123.42
1	8e	171	THR	O-C-N	5.66	127.90	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8h	176	GLN	CA-C-N	5.66	132.35	121.54
1	8h	176	GLN	C-N-CA	5.66	132.35	121.54
1	8p	162	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	8x	84	HIS	CA-C-O	-5.66	113.63	120.08
1	8z	123	PRO	CA-C-O	-5.66	115.09	121.43
1	8J	10	MET	N-CA-CB	5.66	120.06	110.49
1	8N	152	ASP	N-CA-CB	-5.66	102.11	110.49
1	8S	102	SER	CA-C-N	5.66	128.14	120.44
1	8S	102	SER	C-N-CA	5.66	128.14	120.44
1	9d	18	ARG	NE-CZ-NH1	-5.66	115.84	121.50
1	9s	23	TRP	N-CA-C	5.66	117.90	111.11
1	9I	148	THR	O-C-N	-5.66	116.61	123.29
1	9L	37	ILE	CA-C-O	-5.66	114.41	118.71
1	a5	202	LEU	CA-C-N	-5.66	112.25	120.29
1	a5	202	LEU	C-N-CA	-5.66	112.25	120.29
1	a5	204	ALA	N-CA-C	5.66	118.22	111.71
1	ak	154	ARG	CA-C-O	5.66	127.36	121.36
1	aD	15	ILE	CA-C-N	5.66	128.26	120.39
1	aD	15	ILE	C-N-CA	5.66	128.26	120.39
1	aN	49	PRO	O-C-N	-5.66	115.73	122.24
1	14	70	LYS	CA-C-O	5.66	126.42	120.42
1	aW	16	SER	CA-C-O	-5.66	114.53	120.02
1	bi	52	LEU	CA-C-N	5.66	127.80	120.44
1	bi	52	LEU	C-N-CA	5.66	127.80	120.44
1	bp	151	LEU	N-CA-C	5.66	118.22	111.71
1	bv	163	ASP	CA-C-O	5.66	126.47	119.79
1	bA	136	LEU	N-CA-CB	-5.66	101.80	110.12
1	bS	224	PRO	N-CA-CB	5.66	109.19	103.25
1	c0	81	ASP	CA-CB-CG	5.66	118.26	112.60
1	c9	100	ARG	CA-C-O	-5.66	115.43	121.94
1	cn	33	SER	CA-C-O	-5.66	114.81	120.64
1	cv	87	HIS	CA-C-O	5.66	126.36	120.30
1	cE	203	LYS	O-C-N	-5.66	115.70	122.15
1	cO	38	PRO	CA-C-N	5.66	128.14	120.44
1	cO	38	PRO	C-N-CA	5.66	128.14	120.44
1	cR	128	GLU	CB-CG-CD	5.66	122.22	112.60
1	d2	117	TRP	CE2-CD2-CE3	5.66	124.46	118.80
1	dk	229	ARG	CA-CB-CG	5.66	125.42	114.10
1	dt	119	THR	CA-C-O	5.66	126.16	119.48
1	dv	100	ARG	N-CA-CB	-5.66	101.83	110.49
1	dv	122	PRO	CA-C-N	5.66	125.59	119.76
1	dv	122	PRO	C-N-CA	5.66	125.59	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	197	ASP	N-CA-C	5.66	120.03	113.18
1	dB	166	ASP	O-C-N	-5.66	116.20	122.09
1	dD	100	ARG	O-C-N	-5.66	115.18	122.20
1	dI	195	ASN	CA-C-N	5.66	126.92	119.84
1	dI	195	ASN	C-N-CA	5.66	126.92	119.84
1	dK	141	ILE	CA-C-N	5.66	128.22	120.46
1	dK	141	ILE	C-N-CA	5.66	128.22	120.46
1	dL	201	ILE	N-CA-C	5.66	116.39	110.62
1	dO	30	LYS	CA-C-O	5.66	126.42	120.42
1	dQ	82	ARG	NE-CZ-NH2	5.66	124.29	119.20
1	1n	218	CYS	N-CA-CB	5.66	120.06	110.49
1	e2	132	ARG	N-CA-C	5.66	119.00	111.75
1	ex	117	TRP	CA-C-O	5.66	126.33	119.31
1	ey	67	GLN	N-CA-C	5.66	117.53	111.36
1	eL	41	SER	O-C-N	-5.66	116.24	122.07
1	1t	166	ASP	CA-C-N	5.66	127.87	120.28
1	1t	166	ASP	C-N-CA	5.66	127.87	120.28
1	eR	114	GLN	N-CA-C	5.66	118.18	111.33
1	f1	168	PHE	N-CA-C	5.66	117.13	111.07
1	fj	53	ASN	N-CA-C	5.66	117.13	111.07
1	1w	26	VAL	O-C-N	-5.66	115.85	121.96
1	fA	179	GLN	N-CA-C	5.66	117.13	111.07
1	fF	23	TRP	N-CA-C	5.66	117.90	111.11
1	fI	22	ALA	N-CA-C	5.66	118.18	111.33
1	fN	95	GLN	CA-C-O	-5.66	115.55	121.55
1	g2	135	ILE	N-CA-C	5.66	116.30	110.36
1	m	69	LEU	N-CA-C	5.66	117.45	111.28
1	m	74	ASN	CB-CA-C	5.66	119.77	110.88
1	p	13	GLN	O-C-N	-5.66	116.28	123.24
1	v	105	ALA	CA-C-O	5.66	126.33	119.31
1	w	210	THR	N-CA-CB	5.66	118.32	110.17
1	x	24	VAL	CB-CA-C	5.66	119.22	111.97
1	P	161	PHE	O-C-N	-5.66	116.12	122.12
1	T	179	GLN	OE1-CD-NE2	5.66	128.26	122.60
1	ge	171	THR	CA-C-N	5.66	127.86	120.28
1	ge	171	THR	C-N-CA	5.66	127.86	120.28
1	gf	6	LEU	O-C-N	-5.66	115.83	122.96
1	gh	149	SER	O-C-N	-5.66	116.77	123.22
1	gi	167	ARG	CA-C-N	5.66	130.19	121.19
1	gi	167	ARG	C-N-CA	5.66	130.19	121.19
1	gt	14	ALA	CA-C-N	5.66	129.67	121.18
1	gt	14	ALA	C-N-CA	5.66	129.67	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gu	154	ARG	CB-CG-CD	5.66	124.31	111.30
1	gw	58	THR	CA-C-N	5.66	128.78	120.91
1	gw	58	THR	C-N-CA	5.66	128.78	120.91
1	gz	212	GLU	N-CA-C	5.66	118.22	111.71
1	gI	149	SER	N-CA-CB	5.66	120.05	110.49
1	gL	49	PRO	N-CD-CG	5.66	111.69	103.20
1	gQ	64	ALA	O-C-N	-5.66	115.70	122.15
1	ha	212	GLU	N-CA-CB	-5.66	101.51	110.22
1	1J	172	LEU	CA-C-N	5.66	127.80	120.44
1	1J	172	LEU	C-N-CA	5.66	127.80	120.44
1	hv	102	SER	N-CA-C	5.66	118.18	111.33
1	hx	9	GLN	O-C-N	-5.66	116.28	122.67
1	hA	208	ALA	N-CA-C	5.66	119.91	112.89
1	hK	38	PRO	N-CA-CB	-5.66	97.31	103.25
1	hQ	195	ASN	CA-C-O	-5.66	114.53	120.70
1	hS	140	LYS	CA-C-N	5.66	128.21	120.46
1	hS	140	LYS	C-N-CA	5.66	128.21	120.46
1	hW	166	ASP	CA-C-N	5.66	127.80	120.44
1	hW	166	ASP	C-N-CA	5.66	127.80	120.44
1	hY	21	ASN	O-C-N	-5.66	116.20	122.09
1	if	12	HIS	CG-CD2-NE2	5.66	112.86	107.20
1	iA	67	GLN	N-CA-C	5.66	118.22	111.71
1	iB	92	GLU	CA-C-N	5.66	126.40	120.12
1	iB	92	GLU	C-N-CA	5.66	126.40	120.12
1	1R	41	SER	CA-C-N	5.66	128.91	120.31
1	1R	41	SER	C-N-CA	5.66	128.91	120.31
1	iK	200	THR	CA-C-N	5.66	127.69	120.56
1	iK	200	THR	C-N-CA	5.66	127.69	120.56
1	1S	63	GLN	N-CA-C	5.66	117.53	111.36
1	j2	53	ASN	CA-C-N	5.66	128.18	120.54
1	j2	53	ASN	C-N-CA	5.66	128.18	120.54
1	j9	90	PRO	N-CA-CB	-5.66	98.57	103.32
1	je	55	MET	CG-SD-CE	-5.66	88.45	100.90
1	ji	130	TYR	CA-C-O	-5.66	114.88	120.82
1	jj	121	ASN	O-C-N	-5.66	114.92	121.60
1	jj	189	LEU	CA-C-O	5.66	126.55	120.55
1	jn	84	HIS	CA-C-N	5.66	126.91	119.84
1	jn	84	HIS	C-N-CA	5.66	126.91	119.84
1	jA	48	THR	CA-CB-OG1	5.66	118.09	109.60
1	jC	77	ALA	N-CA-C	5.66	118.18	111.33
1	jE	98	GLU	CA-C-N	5.66	125.67	119.90
1	jE	98	GLU	C-N-CA	5.66	125.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jH	197	ASP	N-CA-C	5.66	117.13	111.07
1	jP	118	MET	N-CA-C	5.66	118.22	111.71
1	kd	11	VAL	CB-CA-C	5.66	119.15	110.55
1	ki	59	VAL	CA-C-N	5.66	127.06	121.57
1	ki	59	VAL	C-N-CA	5.66	127.06	121.57
1	kj	4	GLN	O-C-N	-5.66	115.83	122.96
1	ko	185	MET	CG-SD-CE	-5.66	88.45	100.90
1	kq	137	GLY	N-CA-C	5.66	119.52	112.73
1	kt	118	MET	CG-SD-CE	-5.66	88.45	100.90
1	kx	156	GLY	CA-C-N	5.66	125.19	119.19
1	kx	156	GLY	C-N-CA	5.66	125.19	119.19
1	kz	68	MET	CG-SD-CE	-5.66	88.45	100.90
1	l8	129	ILE	N-CA-CB	5.66	117.17	110.55
1	le	22	ALA	CA-C-N	5.66	127.86	120.28
1	le	22	ALA	C-N-CA	5.66	127.86	120.28
1	le	100	ARG	NE-CZ-NH2	-5.66	114.11	119.20
1	lr	16	SER	O-C-N	-5.66	115.09	121.43
1	ls	62	HIS	ND1-CG-CD2	5.66	111.76	106.10
1	lG	45	GLU	N-CA-C	5.66	120.71	111.37
1	lK	44	SER	O-C-N	-5.66	114.02	122.39
1	lO	87	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	2d	92	GLU	O-C-N	-5.66	115.09	121.43
1	2j	167	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	2j	219	GLN	CB-CG-CD	-5.66	102.98	112.60
1	2k	167	ARG	CA-C-N	5.66	127.80	120.44
1	2k	167	ARG	C-N-CA	5.66	127.80	120.44
1	2N	161	PHE	CA-C-N	5.66	127.80	120.44
1	2N	161	PHE	C-N-CA	5.66	127.80	120.44
1	2S	191	VAL	CA-C-O	-5.66	115.17	121.17
1	2T	54	THR	CA-CB-CG2	5.66	120.12	110.50
1	2Z	132	ARG	CD-NE-CZ	5.66	132.32	124.40
1	31	119	THR	N-CA-CB	5.66	119.62	110.40
1	3a	229	ARG	NE-CZ-NH2	5.66	124.29	119.20
1	3d	13	GLN	O-C-N	-5.66	115.83	123.19
1	3q	143	ARG	CA-C-N	5.66	128.32	120.29
1	3q	143	ARG	C-N-CA	5.66	128.32	120.29
1	3r	23	TRP	CA-CB-CG	5.66	124.35	113.60
1	3L	184	TRP	N-CA-C	5.66	117.45	111.28
1	3R	52	LEU	CA-C-N	5.66	127.86	120.28
1	3R	52	LEU	C-N-CA	5.66	127.86	120.28
1	3T	181	VAL	N-CA-C	5.66	116.39	110.62
1	3X	21	ASN	N-CA-C	5.66	117.12	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4d	154	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	4j	32	PHE	CA-CB-CG	-5.66	108.14	113.80
1	4o	170	LYS	N-CA-C	5.66	117.12	111.07
1	4p	55	MET	N-CA-C	5.66	117.45	111.28
1	4C	195	ASN	O-C-N	-5.66	115.31	121.53
1	4K	95	GLN	N-CA-CB	5.66	118.28	109.85
1	4T	41	SER	CA-C-N	5.66	128.13	120.38
1	4T	41	SER	C-N-CA	5.66	128.13	120.38
1	4W	85	PRO	CA-C-N	5.66	132.16	121.97
1	4W	85	PRO	C-N-CA	5.66	132.16	121.97
1	4X	218	CYS	N-CA-C	5.66	119.24	111.54
1	57	200	THR	CA-C-N	5.66	127.69	120.56
1	57	200	THR	C-N-CA	5.66	127.69	120.56
1	5j	195	ASN	CA-C-N	5.66	125.33	119.05
1	5j	195	ASN	C-N-CA	5.66	125.33	119.05
1	5H	166	ASP	O-C-N	-5.66	116.24	122.07
1	5I	204	ALA	N-CA-CB	-5.66	101.00	110.39
1	5O	133	TRP	CB-CG-CD1	5.66	135.39	126.90
1	5Q	13	GLN	CA-C-O	-5.66	115.40	121.45
1	5S	126	VAL	CA-C-N	5.66	126.26	119.98
1	5S	126	VAL	C-N-CA	5.66	126.26	119.98
1	5Y	96	MET	CG-SD-CE	-5.66	88.45	100.90
1	6b	167	ARG	CD-NE-CZ	5.66	132.32	124.40
1	6x	12	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	6H	75	GLU	O-C-N	-5.66	116.24	122.07
1	6Z	87	HIS	N-CA-C	5.66	117.57	109.14
1	6Z	160	PRO	CA-C-O	-5.66	114.88	121.95
1	7a	19	THR	N-CA-CB	5.66	118.44	110.12
1	7r	167	ARG	N-CA-C	5.66	117.12	111.07
1	7F	199	LYS	N-CA-C	5.66	117.90	111.11
1	7U	170	LYS	CA-C-O	5.66	126.42	120.42
1	8b	26	VAL	CA-C-N	5.66	128.21	120.46
1	8b	26	VAL	C-N-CA	5.66	128.21	120.46
1	8e	218	CYS	N-CA-C	5.66	119.44	111.52
1	8g	24	VAL	O-C-N	-5.66	115.41	121.80
1	8o	62	HIS	ND1-CG-CD2	5.66	111.76	106.10
1	8q	165	VAL	CA-C-N	5.66	128.66	120.79
1	8q	165	VAL	C-N-CA	5.66	128.66	120.79
1	8G	116	GLY	O-C-N	-5.66	116.68	122.17
1	8J	85	PRO	N-CA-C	5.66	120.09	111.15
1	8Q	89	GLY	CA-C-N	5.66	125.98	119.93
1	8Q	89	GLY	C-N-CA	5.66	125.98	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	44	SER	O-C-N	-5.66	115.09	122.39
1	8S	84	HIS	CA-C-N	5.66	126.91	119.84
1	8S	84	HIS	C-N-CA	5.66	126.91	119.84
1	8Z	82	ARG	CA-C-N	5.66	127.80	120.44
1	8Z	82	ARG	C-N-CA	5.66	127.80	120.44
1	95	84	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	9e	177	ALA	N-CA-C	5.66	118.27	110.35
1	9l	195	ASN	CB-CA-C	5.66	118.14	109.60
1	9t	43	LEU	N-CA-CB	5.66	118.82	110.33
1	9J	214	MET	N-CA-C	5.66	118.22	111.71
1	9M	197	ASP	CA-CB-CG	-5.66	106.94	112.60
1	Z	154	ARG	CA-C-N	5.66	130.39	121.56
1	Z	154	ARG	C-N-CA	5.66	130.39	121.56
1	10	183	ASN	N-CA-C	5.66	117.45	111.28
1	ab	72	THR	CB-CA-C	-5.66	101.40	110.79
1	af	12	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	af	30	LYS	CA-C-N	5.66	128.18	120.54
1	af	30	LYS	C-N-CA	5.66	128.18	120.54
1	ah	225	GLY	O-C-N	-5.66	115.95	122.91
1	aM	226	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	aQ	6	LEU	O-C-N	-5.66	116.24	122.07
1	aQ	133	TRP	CB-CG-CD1	5.66	135.39	126.90
1	aS	91	ILE	CA-C-O	5.66	127.84	121.11
1	aU	39	MET	N-CA-C	5.66	117.12	111.07
1	aZ	223	GLY	N-CA-C	5.66	123.88	112.34
1	b1	86	VAL	O-C-N	-5.66	116.04	122.72
1	b6	70	LYS	N-CA-C	5.66	117.53	111.36
1	b6	83	LEU	CA-C-O	5.66	126.52	120.24
1	bg	81	ASP	CA-C-O	-5.66	114.55	120.55
1	bn	226	HIS	N-CA-C	5.66	118.05	110.35
1	bC	194	ALA	N-CA-CB	-5.66	102.57	110.38
1	bC	208	ALA	CA-C-O	5.66	125.51	119.34
1	bM	84	HIS	CG-CD2-NE2	5.66	112.86	107.20
1	bO	175	GLU	CA-C-O	5.66	127.55	121.55
1	bQ	120	HIS	ND1-CE1-NE2	5.66	114.06	108.40
1	bV	210	THR	CA-C-N	5.66	127.86	120.28
1	bV	210	THR	C-N-CA	5.66	127.86	120.28
1	bV	226	HIS	CB-CG-CD2	5.66	138.56	131.20
1	c1	130	TYR	O-C-N	-5.66	116.24	122.07
1	c2	162	ARG	NE-CZ-NH2	-5.66	114.11	119.20
1	c5	47	ALA	O-C-N	-5.66	116.88	123.27
1	ca	165	VAL	N-CA-C	5.66	115.85	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	27	VAL	N-CA-CB	5.66	117.17	110.55
1	cf	38	PRO	O-C-N	5.66	129.91	122.27
1	cg	122	PRO	CA-C-N	5.66	125.98	119.92
1	cg	122	PRO	C-N-CA	5.66	125.98	119.92
1	cp	117	TRP	N-CA-C	5.66	117.12	111.07
1	1e	213	GLU	CA-C-N	5.66	128.13	120.44
1	1e	213	GLU	C-N-CA	5.66	128.13	120.44
1	cr	36	VAL	N-CA-C	5.66	116.39	110.62
1	cw	117	TRP	CD2-CE2-CZ2	-5.66	116.74	122.40
1	cJ	170	LYS	CA-C-N	5.66	127.86	120.28
1	cJ	170	LYS	C-N-CA	5.66	127.86	120.28
1	cM	182	LYS	CA-C-N	5.66	127.86	120.28
1	cM	182	LYS	C-N-CA	5.66	127.86	120.28
1	cS	143	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	cU	171	THR	CA-C-N	5.66	130.30	120.68
1	cU	171	THR	C-N-CA	5.66	130.30	120.68
1	dq	133	TRP	CB-CG-CD1	5.66	135.39	126.90
1	dA	68	MET	CA-C-N	5.66	127.86	120.28
1	dA	68	MET	C-N-CA	5.66	127.86	120.28
1	dA	134	ILE	O-C-N	-5.66	116.36	121.91
1	dC	201	ILE	O-C-N	5.66	127.46	121.91
1	dE	84	HIS	CB-CG-ND1	5.66	131.19	122.70
1	dH	50	GLN	CA-C-N	5.66	128.14	120.44
1	dH	50	GLN	C-N-CA	5.66	128.14	120.44
1	dN	74	ASN	N-CA-CB	5.66	118.44	110.12
1	dO	2	ILE	O-C-N	-5.66	117.07	123.18
1	dP	169	TYR	O-C-N	5.66	128.12	122.12
1	dU	68	MET	O-C-N	-5.66	116.24	122.07
1	1o	36	VAL	CA-CB-CG2	5.66	120.02	110.40
1	e2	87	HIS	CA-C-N	5.66	128.43	121.64
1	e2	87	HIS	C-N-CA	5.66	128.43	121.64
1	eb	20	LEU	O-C-N	-5.66	116.24	122.07
1	eF	66	MET	N-CA-C	5.66	117.45	111.28
1	eH	165	VAL	CA-C-O	5.66	126.83	120.95
1	eI	205	LEU	CA-C-O	5.66	126.33	119.31
1	eL	148	THR	CA-CB-OG1	5.66	118.09	109.60
1	f0	195	ASN	O-C-N	-5.66	115.31	121.53
1	f8	187	GLU	CB-CA-C	5.66	119.84	110.90
1	ff	66	MET	CA-C-O	5.66	126.74	120.63
1	fk	212	GLU	N-CA-C	5.66	117.90	111.11
1	fn	195	ASN	CA-C-N	5.66	125.77	119.32
1	fn	195	ASN	C-N-CA	5.66	125.77	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fK	82	ARG	CA-C-N	5.66	128.91	120.31
1	fK	82	ARG	C-N-CA	5.66	128.91	120.31
1	fO	172	LEU	CA-C-N	5.66	128.43	120.28
1	fO	172	LEU	C-N-CA	5.66	128.43	120.28
1	fS	31	ALA	O-C-N	-5.66	115.06	122.59
1	g3	142	VAL	N-CA-C	5.66	116.30	110.36
1	c	176	GLN	OE1-CD-NE2	5.66	128.26	122.60
1	g	154	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	l	173	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	y	224	PRO	N-CA-CB	5.66	109.19	103.25
1	gn	196	PRO	CA-C-N	5.66	127.86	120.28
1	gn	196	PRO	C-N-CA	5.66	127.86	120.28
1	gS	133	TRP	CE2-CD2-CE3	5.66	124.46	118.80
1	gW	186	THR	N-CA-C	5.66	117.45	111.28
1	h4	187	GLU	O-C-N	-5.66	114.75	122.33
1	hg	136	LEU	N-CA-C	5.66	118.17	111.33
1	hn	192	GLN	CB-CA-C	-5.66	100.17	110.63
1	iF	167	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	iM	156	GLY	O-C-N	-5.66	115.58	122.03
1	ji	105	ALA	CA-C-O	5.66	126.12	119.28
1	ji	168	PHE	CA-CB-CG	-5.66	108.14	113.80
1	jN	50	GLN	CA-C-N	5.66	128.13	120.44
1	jN	50	GLN	C-N-CA	5.66	128.13	120.44
1	kA	102	SER	CA-C-N	5.66	127.86	120.28
1	kA	102	SER	C-N-CA	5.66	127.86	120.28
1	kQ	62	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	l1	121	ASN	OD1-CG-ND2	-5.66	116.94	122.60
1	lf	96	MET	N-CA-C	5.66	118.43	110.23
1	lj	151	LEU	N-CA-CB	5.66	119.34	110.46
1	lt	139	ASN	CA-C-O	-5.66	114.55	120.55
1	29	170	LYS	N-CA-CB	-5.66	101.80	110.12
1	lN	133	TRP	CA-C-N	5.66	128.45	120.42
1	lN	133	TRP	C-N-CA	5.66	128.45	120.42
1	2w	98	GLU	CA-C-O	-5.66	115.02	119.66
1	2F	139	ASN	CA-C-O	5.66	126.55	120.55
1	3g	110	THR	O-C-N	-5.66	116.40	122.85
1	3p	167	ARG	N-CA-C	5.66	118.38	111.82
1	3F	114	GLN	N-CA-C	5.66	117.45	111.28
1	3I	13	GLN	N-CA-CB	5.66	119.90	110.85
1	4d	37	ILE	O-C-N	5.66	124.04	120.42
1	4k	54	THR	O-C-N	-5.66	115.60	122.22
1	4u	177	ALA	CA-C-N	5.66	128.88	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4u	177	ALA	C-N-CA	5.66	128.88	120.90
1	4A	28	GLU	N-CA-CB	5.66	118.17	109.91
1	4H	112	GLN	N-CA-C	5.66	118.38	111.82
1	4K	132	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	4M	179	GLN	N-CA-C	5.66	117.45	111.28
1	54	121	ASN	CB-CA-C	5.66	119.50	110.62
1	5D	199	LYS	O-C-N	-5.66	116.12	122.12
1	5I	119	THR	CA-CB-OG1	5.66	118.08	109.60
1	5S	34	PRO	N-CA-C	5.66	124.12	112.47
1	6h	45	GLU	N-CA-C	5.66	118.53	110.10
1	6I	83	LEU	N-CA-CB	-5.66	101.76	110.13
1	6Q	41	SER	CA-C-N	5.66	128.13	120.44
1	6Q	41	SER	C-N-CA	5.66	128.13	120.44
1	70	123	PRO	CA-C-N	-5.66	117.14	123.02
1	70	123	PRO	C-N-CA	-5.66	117.14	123.02
1	7f	223	GLY	CA-C-N	5.66	126.54	119.98
1	7f	223	GLY	C-N-CA	5.66	126.54	119.98
1	7A	20	LEU	CA-C-N	5.66	128.32	120.29
1	7A	20	LEU	C-N-CA	5.66	128.32	120.29
1	7W	158	LYS	CB-CG-CD	5.66	124.31	111.30
1	8f	62	HIS	ND1-CE1-NE2	5.66	114.06	108.40
1	8z	167	ARG	N-CA-C	5.66	117.12	111.07
1	8B	141	ILE	CB-CA-C	5.66	119.21	111.97
1	8D	23	TRP	O-C-N	-5.66	116.24	122.07
1	8Z	126	VAL	O-C-N	5.66	127.36	121.87
1	9g	27	VAL	CB-CA-C	-5.66	104.41	112.22
1	9r	53	ASN	CB-CG-ND2	5.66	124.89	116.40
1	9K	134	ILE	CA-C-N	5.66	128.21	120.46
1	9K	134	ILE	C-N-CA	5.66	128.21	120.46
1	a6	33	SER	CA-C-N	5.66	126.91	119.84
1	a6	33	SER	C-N-CA	5.66	126.91	119.84
1	aL	175	GLU	O-C-N	-5.66	115.07	122.59
1	aN	76	GLU	CA-C-N	5.66	127.86	120.28
1	aN	76	GLU	C-N-CA	5.66	127.86	120.28
1	16	30	LYS	CA-C-O	5.66	125.80	119.41
1	bo	72	THR	CA-C-O	5.66	126.76	120.82
1	19	107	THR	CA-CB-OG1	5.66	118.09	109.60
1	bJ	37	ILE	CA-C-N	5.66	125.02	118.85
1	bJ	37	ILE	C-N-CA	5.66	125.02	118.85
1	1a	51	ASP	CA-C-N	5.66	127.86	120.28
1	1a	51	ASP	C-N-CA	5.66	127.86	120.28
1	bW	22	ALA	CA-C-O	5.66	126.55	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bY	190	LEU	O-C-N	-5.66	116.12	122.12
1	cK	184	TRP	CA-C-N	5.66	127.86	120.28
1	cK	184	TRP	C-N-CA	5.66	127.86	120.28
1	cU	172	LEU	CA-C-O	5.66	126.47	119.79
1	df	150	ILE	N-CA-C	5.66	116.39	110.62
1	dx	82	ARG	CA-C-N	5.66	128.43	120.28
1	dx	82	ARG	C-N-CA	5.66	128.43	120.28
1	dK	84	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
1	dS	115	ILE	CA-C-N	5.66	126.26	119.98
1	dS	115	ILE	C-N-CA	5.66	126.26	119.98
1	e5	181	VAL	O-C-N	5.66	127.78	121.90
1	1t	59	VAL	N-CA-C	5.66	116.37	109.30
1	f6	25	LYS	N-CA-C	5.66	117.45	111.28
1	f8	89	GLY	CA-C-N	5.66	125.98	119.93
1	f8	89	GLY	C-N-CA	5.66	125.98	119.93
1	f8	89	GLY	N-CA-C	5.66	123.88	112.34
1	fd	113	GLU	CA-C-O	5.66	126.76	120.82
1	fs	212	GLU	CA-C-N	5.66	127.79	120.44
1	fs	212	GLU	C-N-CA	5.66	127.79	120.44
1	g3	101	GLY	CA-C-O	5.66	126.34	120.80
1	y	24	VAL	O-C-N	-5.66	116.35	121.89
1	C	215	MET	CA-C-N	5.66	128.43	120.28
1	C	215	MET	C-N-CA	5.66	128.43	120.28
1	D	103	ASP	CA-C-N	5.66	128.51	120.53
1	D	103	ASP	C-N-CA	5.66	128.51	120.53
1	gh	16	SER	CA-C-N	5.66	125.27	119.56
1	gh	16	SER	C-N-CA	5.66	125.27	119.56
1	gG	215	MET	O-C-N	-5.66	116.13	122.12
1	gT	142	VAL	N-CA-CB	5.66	119.06	110.58
1	gY	52	LEU	CA-C-N	5.66	127.86	120.28
1	gY	52	LEU	C-N-CA	5.66	127.86	120.28
1	gZ	150	ILE	O-C-N	-5.66	114.64	122.05
1	h2	229	ARG	NE-CZ-NH2	5.66	124.29	119.20
1	h4	88	ALA	N-CA-C	5.66	117.14	110.97
1	he	128	GLU	CA-C-N	5.66	127.69	120.56
1	he	128	GLU	C-N-CA	5.66	127.69	120.56
1	hr	53	ASN	OD1-CG-ND2	-5.66	116.94	122.60
1	hC	202	LEU	CA-C-N	5.66	127.86	120.28
1	hC	202	LEU	C-N-CA	5.66	127.86	120.28
1	hD	149	SER	CA-C-O	5.66	127.55	121.55
1	hW	83	LEU	O-C-N	5.66	129.22	122.27
1	i0	230	VAL	O-C-N	-5.66	116.54	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i9	166	ASP	CA-CB-CG	5.66	118.26	112.60
1	ib	184	TRP	CB-CA-C	5.66	120.30	110.68
1	ij	132	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	iP	124	ILE	CA-C-O	-5.66	114.83	119.47
1	iS	132	ARG	CA-C-N	5.66	127.79	120.44
1	iS	132	ARG	C-N-CA	5.66	127.79	120.44
1	j2	219	GLN	O-C-N	-5.66	115.70	122.15
1	j4	73	ILE	CA-C-N	5.66	127.79	120.44
1	j4	73	ILE	C-N-CA	5.66	127.79	120.44
1	jk	223	GLY	N-CA-C	5.66	123.88	112.34
1	jm	175	GLU	O-C-N	-5.66	115.49	123.01
1	jt	70	LYS	CA-C-O	5.66	126.54	120.55
1	jL	194	ALA	CA-C-N	5.66	129.25	120.60
1	jL	194	ALA	C-N-CA	5.66	129.25	120.60
1	jU	37	ILE	CA-C-O	-5.66	114.04	118.85
1	jZ	181	VAL	N-CA-C	5.66	115.85	110.42
1	kc	74	ASN	O-C-N	-5.66	115.98	122.09
1	ke	9	GLN	CA-C-O	-5.66	115.87	122.37
1	ki	172	LEU	CA-C-N	5.66	127.79	120.44
1	ki	172	LEU	C-N-CA	5.66	127.79	120.44
1	21	116	GLY	CA-C-O	-5.66	114.89	121.00
1	kp	197	ASP	CA-C-N	5.66	127.86	120.28
1	kp	197	ASP	C-N-CA	5.66	127.86	120.28
1	kH	183	ASN	N-CA-C	5.66	118.38	111.82
1	kI	58	THR	CA-C-O	5.66	125.97	119.35
1	kL	191	VAL	N-CA-C	5.66	115.85	110.42
1	kP	103	ASP	N-CA-C	5.66	117.12	111.07
1	kQ	177	ALA	CA-C-N	5.66	128.88	120.90
1	kQ	177	ALA	C-N-CA	5.66	128.88	120.90
1	kU	139	ASN	N-CA-C	5.66	117.44	111.28
1	kX	227	LYS	CA-C-O	-5.66	114.72	120.71
1	l3	223	GLY	O-C-N	-5.66	116.11	121.77
1	lc	1	PRO	CA-C-N	5.66	130.14	122.90
1	lc	1	PRO	C-N-CA	5.66	130.14	122.90
1	lc	130	TYR	O-C-N	-5.66	115.70	122.15
1	ls	31	ALA	O-C-N	-5.66	115.07	122.59
1	lG	148	THR	O-C-N	-5.66	116.73	123.06
1	lP	128	GLU	CB-CG-CD	5.66	122.21	112.60
1	2c	110	THR	N-CA-C	-5.66	103.23	110.53
1	2e	39	MET	N-CA-CB	5.66	118.43	110.12
1	2x	102	SER	CA-C-O	-5.66	114.52	120.63
1	2y	56	LEU	N-CA-C	5.66	117.12	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	184	TRP	CA-C-N	5.66	127.79	120.44
1	2S	184	TRP	C-N-CA	5.66	127.79	120.44
1	32	81	ASP	O-C-N	-5.66	116.12	122.12
1	34	184	TRP	O-C-N	5.66	127.89	122.07
1	36	15	ILE	O-C-N	-5.66	116.90	122.67
1	37	229	ARG	CA-CB-CG	5.66	125.41	114.10
1	3j	76	GLU	CA-C-O	-5.66	114.88	120.82
1	3m	201	ILE	CB-CA-C	-5.66	104.73	111.97
1	3p	190	LEU	CA-C-N	5.66	128.21	120.46
1	3p	190	LEU	C-N-CA	5.66	128.21	120.46
1	3w	159	GLU	O-C-N	-5.66	115.92	121.18
1	3z	10	MET	N-CA-C	5.66	122.85	110.80
1	3E	57	ASN	CA-C-N	5.66	127.86	120.28
1	3E	57	ASN	C-N-CA	5.66	127.86	120.28
1	3P	96	MET	N-CA-C	5.66	118.04	110.35
1	3S	119	THR	N-CA-CB	5.66	119.13	110.70
1	49	195	ASN	CA-C-N	5.66	125.77	119.32
1	49	195	ASN	C-N-CA	5.66	125.77	119.32
1	4a	202	LEU	N-CA-C	5.66	117.12	111.07
1	4b	186	THR	CA-C-N	5.66	127.79	120.44
1	4b	186	THR	C-N-CA	5.66	127.79	120.44
1	4f	116	GLY	N-CA-C	5.66	119.48	112.64
1	4x	117	TRP	CA-C-N	5.66	127.79	120.44
1	4x	117	TRP	C-N-CA	5.66	127.79	120.44
1	4J	226	HIS	CB-CA-C	5.66	119.94	109.70
1	4O	216	THR	CA-CB-OG1	5.66	118.08	109.60
1	4P	200	THR	CA-C-O	5.66	126.76	120.82
1	53	151	LEU	N-CA-C	5.66	119.81	113.02
1	5h	148	THR	CA-C-O	-5.66	115.12	121.40
1	5k	170	LYS	N-CA-C	5.66	117.13	110.97
1	5B	40	PHE	CA-CB-CG	5.66	119.45	113.80
1	5D	88	ALA	CA-C-N	5.66	130.75	121.87
1	5D	88	ALA	C-N-CA	5.66	130.75	121.87
1	5I	39	MET	N-CA-C	5.66	117.12	111.07
1	66	25	LYS	CB-CA-C	5.66	120.18	110.79
1	69	114	GLN	N-CA-CB	5.66	118.44	110.12
1	6c	77	ALA	N-CA-CB	5.66	118.53	110.16
1	6f	225	GLY	O-C-N	-5.66	115.95	122.91
1	6s	23	TRP	N-CA-C	5.66	117.14	110.97
1	6u	169	TYR	N-CA-C	5.66	119.36	112.23
1	6u	198	CYS	CA-C-O	5.66	126.54	120.55
1	6A	92	GLU	CA-C-N	5.66	125.98	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6A	92	GLU	C-N-CA	5.66	125.98	119.93
1	6C	156	GLY	CA-C-O	-5.66	113.43	121.52
1	6O	36	VAL	CA-C-N	5.66	123.80	120.24
1	6O	36	VAL	C-N-CA	5.66	123.80	120.24
1	70	186	THR	N-CA-C	-5.66	105.02	111.07
1	7m	66	MET	N-CA-C	5.66	117.12	111.07
1	7n	92	GLU	N-CA-C	5.66	119.86	112.17
1	7L	182	LYS	CA-C-O	5.66	126.74	120.63
1	7P	119	THR	CA-CB-OG1	5.66	118.08	109.60
1	82	182	LYS	CB-CA-C	-5.66	101.40	110.79
1	86	28	GLU	CB-CG-CD	5.66	122.22	112.60
1	89	143	ARG	NH1-CZ-NH2	-5.66	111.95	119.30
1	8d	143	ARG	CD-NE-CZ	5.66	132.32	124.40
1	8n	153	ILE	O-C-N	-5.66	117.31	122.79
1	8s	89	GLY	O-C-N	-5.66	116.11	121.77
1	8C	103	ASP	N-CA-C	5.66	117.90	111.11
1	8D	76	GLU	CA-C-N	5.66	128.11	120.65
1	8D	76	GLU	C-N-CA	5.66	128.11	120.65
1	8E	108	THR	N-CA-C	-5.66	104.97	112.94
1	8E	186	THR	CA-C-N	5.66	128.13	120.38
1	8E	186	THR	C-N-CA	5.66	128.13	120.38
1	8J	72	THR	O-C-N	5.66	128.60	122.15
1	8Q	163	ASP	CA-CB-CG	5.66	118.25	112.60
1	8W	23	TRP	CZ3-CH2-CZ2	-5.66	114.15	121.50
1	91	12	HIS	CB-CG-ND1	5.66	131.19	122.70
1	91	195	ASN	CA-C-N	5.66	126.91	119.84
1	91	195	ASN	C-N-CA	5.66	126.91	119.84
1	9G	138	LEU	CA-C-N	5.66	128.65	120.79
1	9G	138	LEU	C-N-CA	5.66	128.65	120.79
1	9P	88	ALA	CA-C-O	5.66	128.08	121.46
1	9P	114	GLN	CB-CA-C	5.66	119.83	110.90
1	9V	86	VAL	CA-C-N	5.66	131.74	122.07
1	9V	86	VAL	C-N-CA	5.66	131.74	122.07
1	a1	191	VAL	CA-C-N	5.66	127.86	120.28
1	a1	191	VAL	C-N-CA	5.66	127.86	120.28
1	a3	116	GLY	N-CA-C	5.66	120.01	112.77
1	ab	141	ILE	CA-CB-CG1	5.66	120.01	110.40
1	ac	76	GLU	CA-C-O	5.66	126.42	120.42
1	al	157	PRO	N-CA-C	-5.66	106.32	114.18
1	am	96	MET	N-CA-CB	-5.66	101.07	110.23
1	au	139	ASN	CA-C-N	5.66	127.79	120.44
1	au	139	ASN	C-N-CA	5.66	127.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aB	53	ASN	CA-CB-CG	-5.66	106.94	112.60
1	aF	210	THR	CA-C-O	5.66	127.37	121.15
1	aL	83	LEU	CA-C-O	5.66	126.22	119.60
1	aO	54	THR	OG1-CB-CG2	-5.66	97.99	109.30
1	aS	58	THR	CA-CB-CG2	5.66	120.11	110.50
1	b7	132	ARG	CA-C-N	5.66	127.86	120.28
1	b7	132	ARG	C-N-CA	5.66	127.86	120.28
1	b9	27	VAL	N-CA-C	5.66	115.85	110.42
1	bb	126	VAL	N-CA-C	5.66	116.39	110.62
1	bh	130	TYR	CA-C-N	5.66	127.79	120.44
1	bh	130	TYR	C-N-CA	5.66	127.79	120.44
1	bm	214	MET	N-CA-CB	-5.66	101.81	110.12
1	bn	77	ALA	CB-CA-C	-5.66	101.24	110.85
1	bu	33	SER	CA-C-O	-5.66	114.07	120.46
1	bY	132	ARG	NE-CZ-NH2	5.66	124.29	119.20
1	c6	132	ARG	CA-C-O	5.66	126.54	120.55
1	c9	153	ILE	O-C-N	-5.66	116.80	122.62
1	cj	57	ASN	N-CA-C	5.66	118.21	111.71
1	cs	50	GLN	N-CA-CB	-5.66	101.81	110.12
1	ct	2	ILE	CB-CA-C	5.66	117.81	111.59
1	cu	189	LEU	N-CA-C	5.66	117.44	111.28
1	cy	163	ASP	N-CA-C	5.66	117.12	111.07
1	cz	99	PRO	N-CA-CB	-5.66	98.08	103.34
1	cF	45	GLU	CA-C-O	5.66	126.54	120.55
1	1h	62	HIS	ND1-CG-CD2	5.66	111.76	106.10
1	d0	45	GLU	O-C-N	-5.66	115.07	122.59
1	dm	37	ILE	N-CA-CB	-5.66	106.94	110.50
1	do	163	ASP	O-C-N	-5.66	114.85	122.43
1	dF	154	ARG	NE-CZ-NH1	5.66	127.16	121.50
1	dL	56	LEU	N-CA-C	5.66	117.52	111.36
1	e7	155	GLN	O-C-N	5.66	129.27	122.94
1	ek	134	ILE	CA-C-N	5.66	128.21	120.46
1	ek	134	ILE	C-N-CA	5.66	128.21	120.46
1	eB	185	MET	CA-C-O	5.66	126.47	119.97
1	eZ	173	ARG	CD-NE-CZ	5.66	132.32	124.40
1	eZ	214	MET	O-C-N	-5.66	114.85	122.43
1	f3	68	MET	N-CA-C	5.66	118.38	111.82
1	fr	138	LEU	N-CA-CB	5.66	120.05	110.49
1	1z	191	VAL	N-CA-C	5.66	117.54	112.17
1	fT	114	GLN	N-CA-C	5.66	117.90	111.11
1	e	87	HIS	ND1-CE1-NE2	5.66	114.06	108.40
1	e	189	LEU	CA-C-N	5.66	129.30	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	189	LEU	C-N-CA	5.66	129.30	120.82
1	f	130	TYR	CA-C-N	5.66	128.32	120.29
1	f	130	TYR	C-N-CA	5.66	128.32	120.29
1	o	50	GLN	N-CA-C	5.66	117.44	111.28
1	u	32	PHE	O-C-N	-5.66	115.91	122.87
1	C	117	TRP	O-C-N	5.66	128.12	122.12
1	L	190	LEU	N-CA-C	5.66	118.17	111.33
1	5	121	ASN	O-C-N	-5.66	114.81	121.32
1	7	188	THR	CA-C-N	5.66	129.30	120.82
1	7	188	THR	C-N-CA	5.66	129.30	120.82
1	gn	210	THR	CA-C-N	5.65	127.86	120.28
1	gn	210	THR	C-N-CA	5.65	127.86	120.28
1	gy	167	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	gB	160	PRO	CA-C-O	-5.65	114.89	121.34
1	1E	165	VAL	O-C-N	-5.65	116.29	121.94
1	gI	54	THR	CA-CB-OG1	-5.65	101.12	109.60
1	gR	112	GLN	OE1-CD-NE2	5.65	128.25	122.60
1	hh	101	GLY	CA-C-N	5.65	128.42	120.28
1	hh	101	GLY	C-N-CA	5.65	128.42	120.28
1	hj	8	GLY	CA-C-N	5.65	128.87	120.95
1	hj	8	GLY	C-N-CA	5.65	128.87	120.95
1	hA	213	GLU	CB-CA-C	-5.65	101.24	110.85
1	hF	169	TYR	N-CA-C	5.65	118.38	111.82
1	i8	55	MET	CA-C-N	5.65	127.86	120.28
1	i8	55	MET	C-N-CA	5.65	127.86	120.28
1	ib	84	HIS	CG-ND1-CE1	-5.65	99.69	109.30
1	ig	62	HIS	ND1-CG-CD2	5.65	111.75	106.10
1	io	2	ILE	N-CA-CB	5.65	118.95	110.13
1	iu	130	TYR	N-CA-C	5.65	118.38	111.82
1	iX	143	ARG	N-CA-C	5.65	117.13	110.97
1	jb	193	ASN	CA-C-N	5.65	128.74	120.71
1	jb	193	ASN	C-N-CA	5.65	128.74	120.71
1	jh	45	GLU	CG-CD-OE1	5.65	131.41	118.40
1	jq	50	GLN	CA-C-O	-5.65	114.43	120.42
1	jB	142	VAL	CB-CA-C	5.65	119.21	111.97
1	jP	103	ASP	O-C-N	5.65	128.11	122.12
1	jW	92	GLU	CB-CA-C	-5.65	100.38	109.37
1	k4	213	GLU	N-CA-C	5.65	117.12	111.07
1	k5	82	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
1	l6	91	ILE	CA-CB-CG1	5.65	120.01	110.40
1	ld	151	LEU	CA-C-N	5.65	127.86	120.28
1	ld	151	LEU	C-N-CA	5.65	127.86	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	219	GLN	CG-CD-NE2	-5.65	107.92	116.40
1	lN	116	GLY	N-CA-C	5.65	119.48	112.64
1	lQ	149	SER	CA-C-N	5.65	130.03	120.64
1	lQ	149	SER	C-N-CA	5.65	130.03	120.64
1	2i	14	ALA	CA-C-N	5.65	128.08	120.50
1	2i	14	ALA	C-N-CA	5.65	128.08	120.50
1	2q	139	ASN	CA-C-O	5.65	126.95	120.90
1	2C	93	PRO	CA-C-O	-5.65	114.97	121.36
1	2X	203	LYS	N-CA-C	5.65	117.44	111.28
1	3b	32	PHE	CA-CB-CG	-5.65	108.15	113.80
1	3j	33	SER	CA-C-N	5.65	126.60	120.83
1	3j	33	SER	C-N-CA	5.65	126.60	120.83
1	3j	228	ALA	CA-C-O	-5.65	115.01	121.40
1	3q	134	ILE	CB-CA-C	5.65	119.21	111.97
1	3w	118	MET	CG-SD-CE	-5.65	88.46	100.90
1	3M	176	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	3W	200	THR	CA-C-N	5.65	128.21	120.46
1	3W	200	THR	C-N-CA	5.65	128.21	120.46
1	3Y	7	GLN	O-C-N	-5.65	116.25	122.07
1	4h	224	PRO	N-CA-CB	5.65	108.34	103.31
1	4E	185	MET	N-CA-CB	-5.65	101.81	110.12
1	4I	57	ASN	CB-CG-ND2	5.65	124.88	116.40
1	4P	171	THR	O-C-N	-5.65	115.61	122.22
1	5m	84	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	63	199	LYS	N-CA-C	5.65	117.44	111.28
1	6S	22	ALA	CA-C-N	5.65	127.86	120.28
1	6S	22	ALA	C-N-CA	5.65	127.86	120.28
1	6W	169	TYR	N-CA-CB	5.65	118.43	110.12
1	7a	195	ASN	CB-CA-C	5.65	118.45	109.52
1	7b	64	ALA	CA-C-N	5.65	127.86	120.28
1	7b	64	ALA	C-N-CA	5.65	127.86	120.28
1	83	87	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	8c	194	ALA	CA-C-N	5.65	129.25	120.60
1	8c	194	ALA	C-N-CA	5.65	129.25	120.60
1	8N	119	THR	N-CA-CB	5.65	118.86	110.49
1	8U	80	TRP	N-CA-C	5.65	117.44	111.28
1	9s	84	HIS	CA-C-N	5.65	125.94	119.83
1	9s	84	HIS	C-N-CA	5.65	125.94	119.83
1	9I	201	ILE	N-CA-CB	5.65	117.81	110.57
1	ak	99	PRO	O-C-N	-5.65	115.94	123.06
1	aP	26	VAL	CB-CA-C	-5.65	104.73	111.97
1	aS	11	VAL	O-C-N	-5.65	117.15	123.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	164	TYR	CA-C-O	5.65	126.52	120.70
1	bb	23	TRP	O-C-N	-5.65	116.13	122.12
1	bT	35	GLU	O-C-N	-5.65	115.61	122.22
1	cL	94	GLY	O-C-N	-5.65	115.83	122.50
1	1h	166	ASP	O-C-N	-5.65	115.70	122.15
1	dm	173	ARG	N-CA-C	5.65	117.52	111.36
1	dt	179	GLN	O-C-N	-5.65	116.21	122.09
1	dT	80	TRP	CA-C-N	5.65	130.25	120.58
1	dT	80	TRP	C-N-CA	5.65	130.25	120.58
1	ec	48	THR	CA-CB-OG1	5.65	118.08	109.60
1	em	59	VAL	CA-C-O	5.65	127.89	121.28
1	er	167	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	eJ	30	LYS	CA-C-O	5.65	125.85	119.18
1	eR	40	PHE	CA-CB-CG	-5.65	108.15	113.80
1	f2	126	VAL	CA-C-O	5.65	126.83	120.95
1	ff	75	GLU	CA-C-N	5.65	127.86	120.28
1	ff	75	GLU	C-N-CA	5.65	127.86	120.28
1	fF	28	GLU	N-CA-C	5.65	118.99	111.75
1	g3	153	ILE	N-CA-C	5.65	117.35	109.55
1	k	226	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	J	12	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	gG	83	LEU	O-C-N	-5.65	115.32	122.27
1	gG	211	LEU	CB-CA-C	5.65	120.17	110.79
1	gG	229	ARG	NE-CZ-NH2	5.65	124.29	119.20
1	gH	154	ARG	NE-CZ-NH2	-5.65	114.11	119.20
1	gI	169	TYR	O-C-N	-5.65	116.13	122.12
1	h2	65	ALA	CA-C-O	5.65	126.75	120.82
1	h8	92	GLU	O-C-N	-5.65	115.63	121.28
1	h9	215	MET	CA-C-O	5.65	126.41	120.42
1	he	4	GLN	O-C-N	-5.65	115.01	122.47
1	hq	83	LEU	CB-CA-C	-5.65	101.41	110.79
1	hw	158	LYS	N-CA-C	-5.65	106.05	113.17
1	hB	202	LEU	N-CA-C	5.65	117.44	111.28
1	hG	190	LEU	N-CA-CB	-5.65	101.81	110.01
1	hJ	124	ILE	O-C-N	5.65	126.12	120.92
1	i9	21	ASN	CA-CB-CG	5.65	118.25	112.60
1	1Q	199	LYS	CA-C-N	5.65	127.79	120.44
1	1Q	199	LYS	C-N-CA	5.65	127.79	120.44
1	iO	223	GLY	O-C-N	-5.65	116.12	121.77
1	ja	200	THR	CA-C-N	5.65	129.40	120.47
1	ja	200	THR	C-N-CA	5.65	129.40	120.47
1	1U	159	GLU	CA-C-N	5.65	125.67	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	159	GLU	C-N-CA	5.65	125.67	119.90
1	jx	32	PHE	CA-C-O	5.65	128.59	120.51
1	jx	163	ASP	CA-C-N	5.65	127.86	120.28
1	jx	163	ASP	C-N-CA	5.65	127.86	120.28
1	jU	51	ASP	CA-C-N	5.65	128.32	120.29
1	jU	51	ASP	C-N-CA	5.65	128.32	120.29
1	k0	226	HIS	CA-C-O	5.65	126.49	120.10
1	21	35	GLU	N-CA-C	5.65	120.17	113.28
1	ku	53	ASN	OD1-CG-ND2	5.65	128.25	122.60
1	kv	229	ARG	CA-C-N	5.65	130.85	122.99
1	kv	229	ARG	C-N-CA	5.65	130.85	122.99
1	kx	230	VAL	O-C-N	-5.65	116.01	121.83
1	kG	146	SER	O-C-N	-5.65	115.45	120.48
1	kI	224	PRO	CA-C-O	-5.65	115.10	121.43
1	kK	183	ASN	N-CA-CB	-5.65	101.81	110.01
1	24	129	ILE	N-CA-CB	5.65	117.16	110.55
1	25	163	ASP	CA-CB-CG	5.65	118.25	112.60
1	kZ	223	GLY	CA-C-N	5.65	126.10	119.99
1	kZ	223	GLY	C-N-CA	5.65	126.10	119.99
1	l9	223	GLY	N-CA-C	5.65	123.87	112.34
1	lo	116	GLY	N-CA-C	-5.65	105.53	112.77
1	ls	28	GLU	CB-CA-C	-5.65	101.24	110.85
1	lC	220	GLY	CA-C-O	5.65	126.75	119.68
1	lJ	91	ILE	CA-C-O	5.65	126.62	120.57
1	lM	158	LYS	N-CA-C	-5.65	104.97	112.94
1	lO	168	PHE	CA-CB-CG	-5.65	108.15	113.80
1	2d	64	ALA	O-C-N	-5.65	115.70	122.15
1	2h	114	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	2q	153	ILE	N-CA-CB	5.65	116.69	110.53
1	2Q	71	GLU	N-CA-C	5.65	117.44	111.28
1	32	180	GLU	N-CA-CB	5.65	118.54	110.06
1	3p	89	GLY	CA-C-N	5.65	126.91	119.84
1	3p	89	GLY	C-N-CA	5.65	126.91	119.84
1	3x	178	SER	CA-C-O	-5.65	115.65	121.87
1	3E	180	GLU	N-CA-C	5.65	117.52	111.36
1	3I	145	TYR	N-CA-CB	-5.65	101.79	110.16
1	3M	34	PRO	CA-C-N	5.65	128.42	120.28
1	3M	34	PRO	C-N-CA	5.65	128.42	120.28
1	3N	113	GLU	CA-C-N	5.65	127.79	120.44
1	3N	113	GLU	C-N-CA	5.65	127.79	120.44
1	44	209	ALA	O-C-N	-5.65	115.58	122.82
1	4b	86	VAL	CA-C-N	5.65	129.58	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4b	86	VAL	C-N-CA	5.65	129.58	121.50
1	4w	167	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
1	4M	98	GLU	N-CA-C	5.65	117.01	109.83
1	4Y	185	MET	N-CA-C	5.65	117.44	111.28
1	5l	175	GLU	CA-C-N	5.65	130.20	122.34
1	5l	175	GLU	C-N-CA	5.65	130.20	122.34
1	5m	42	ALA	O-C-N	-5.65	116.13	122.12
1	5R	27	VAL	CB-CA-C	-5.65	104.73	111.97
1	5T	154	ARG	CD-NE-CZ	5.65	132.31	124.40
1	5U	53	ASN	CA-CB-CG	-5.65	106.95	112.60
1	65	215	MET	N-CA-CB	5.65	119.61	110.40
1	6b	76	GLU	N-CA-C	5.65	118.17	111.33
1	6b	105	ALA	N-CA-CB	-5.65	101.79	110.44
1	6o	49	PRO	N-CA-CB	5.65	109.19	103.25
1	6J	168	PHE	O-C-N	-5.65	116.25	122.07
1	75	94	GLY	N-CA-C	5.65	119.75	112.18
1	76	58	THR	CA-CB-OG1	5.65	118.08	109.60
1	78	198	CYS	CA-C-N	5.65	128.42	120.28
1	78	198	CYS	C-N-CA	5.65	128.42	120.28
1	7d	48	THR	OG1-CB-CG2	-5.65	98.00	109.30
1	7f	53	ASN	CA-CB-CG	-5.65	106.95	112.60
1	7g	131	LYS	N-CA-C	-5.65	105.12	111.28
1	7p	41	SER	N-CA-C	5.65	117.44	111.28
1	7q	167	ARG	N-CA-C	5.65	117.44	111.28
1	7t	195	ASN	CA-CB-CG	5.65	118.25	112.60
1	7E	72	THR	CA-CB-CG2	5.65	120.11	110.50
1	7F	186	THR	CA-C-N	5.65	127.79	120.44
1	7F	186	THR	C-N-CA	5.65	127.79	120.44
1	7G	191	VAL	CA-CB-CG2	-5.65	100.79	110.40
1	82	12	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	82	100	ARG	CA-C-N	5.65	126.38	119.99
1	82	100	ARG	C-N-CA	5.65	126.38	119.99
1	8e	10	MET	CG-SD-CE	-5.65	88.46	100.90
1	8r	218	CYS	O-C-N	-5.65	114.84	122.41
1	8v	62	HIS	ND1-CG-CD2	5.65	111.75	106.10
1	8v	138	LEU	N-CA-C	5.65	117.24	111.14
1	8L	177	ALA	CA-C-N	5.65	132.34	121.54
1	8L	177	ALA	C-N-CA	5.65	132.34	121.54
1	96	90	PRO	N-CA-CB	5.65	109.19	103.25
1	9e	135	ILE	N-CA-C	5.65	116.39	110.62
1	9f	102	SER	CA-C-O	5.65	126.54	120.55
1	9B	203	LYS	N-CA-CB	5.65	118.43	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9I	101	GLY	N-CA-C	5.65	119.51	112.73
1	9N	65	ALA	O-C-N	-5.65	116.13	122.12
1	10	93	PRO	CA-C-N	5.65	128.86	121.85
1	10	93	PRO	C-N-CA	5.65	128.86	121.85
1	ae	82	ARG	O-C-N	5.65	128.11	122.12
1	af	28	GLU	O-C-N	-5.65	115.02	122.42
1	af	73	ILE	O-C-N	-5.65	116.02	121.90
1	11	190	LEU	N-CA-C	5.65	118.17	111.33
1	au	165	VAL	CA-CB-CG1	5.65	120.01	110.40
1	aA	124	ILE	CB-CA-C	-5.65	105.71	111.08
1	13	165	VAL	O-C-N	-5.65	116.01	121.83
1	aO	178	SER	CA-C-N	5.65	127.85	120.28
1	aO	178	SER	C-N-CA	5.65	127.85	120.28
1	b2	173	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	b7	50	GLN	N-CA-C	5.65	117.44	111.28
1	bM	110	THR	O-C-N	-5.65	116.41	122.85
1	bY	110	THR	CA-C-N	5.65	128.17	120.54
1	bY	110	THR	C-N-CA	5.65	128.17	120.54
1	c0	23	TRP	N-CA-C	5.65	117.44	111.28
1	c6	188	THR	CA-CB-CG2	5.65	120.11	110.50
1	cj	77	ALA	CA-C-N	5.65	128.13	120.44
1	cj	77	ALA	C-N-CA	5.65	128.13	120.44
1	cj	226	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	cq	197	ASP	CA-C-O	5.65	126.41	120.42
1	cs	185	MET	N-CA-C	5.65	117.44	111.28
1	cD	80	TRP	CG-CD2-CE3	5.65	139.55	133.90
1	cP	161	PHE	CA-CB-CG	-5.65	108.15	113.80
1	da	184	TRP	O-C-N	-5.65	116.25	122.07
1	dc	53	ASN	CA-CB-CG	-5.65	106.95	112.60
1	dr	73	ILE	N-CA-C	5.65	116.43	110.72
1	1l	113	GLU	N-CA-C	5.65	117.44	111.28
1	dD	31	ALA	N-CA-C	5.65	122.84	110.80
1	dF	157	PRO	N-CA-C	-5.65	106.17	113.57
1	dG	34	PRO	CA-C-N	5.65	128.63	120.38
1	dG	34	PRO	C-N-CA	5.65	128.63	120.38
1	dZ	19	THR	CA-C-N	5.65	127.86	120.28
1	dZ	19	THR	C-N-CA	5.65	127.86	120.28
1	dZ	166	ASP	CB-CA-C	5.65	119.76	110.88
1	e5	223	GLY	O-C-N	-5.65	116.12	121.77
1	e6	130	TYR	CB-CG-CD1	5.65	129.28	120.80
1	ek	147	PRO	CA-C-N	5.65	131.14	121.87
1	ek	147	PRO	C-N-CA	5.65	131.14	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	161	PHE	CA-C-N	5.65	127.86	120.28
1	ep	161	PHE	C-N-CA	5.65	127.86	120.28
1	er	92	GLU	O-C-N	-5.65	115.10	120.70
1	eN	15	ILE	N-CA-C	5.65	116.70	109.30
1	eO	155	GLN	N-CA-C	5.65	119.13	110.20
1	1t	221	VAL	CA-C-N	5.65	128.60	122.16
1	1t	221	VAL	C-N-CA	5.65	128.60	122.16
1	eX	36	VAL	O-C-N	-5.65	115.51	122.18
1	eY	4	GLN	CA-C-N	5.65	127.79	120.44
1	eY	4	GLN	C-N-CA	5.65	127.79	120.44
1	f9	226	HIS	CG-CD2-NE2	5.65	112.85	107.20
1	1w	87	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	fs	158	LYS	N-CA-C	-5.65	104.97	112.94
1	1x	84	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	fy	21	ASN	N-CA-C	5.65	117.89	111.11
1	fS	98	GLU	O-C-N	-5.65	115.10	121.43
1	fT	103	ASP	N-CA-C	-5.65	104.59	112.45
1	g5	96	MET	N-CA-C	5.65	122.84	110.80
1	1	69	LEU	CA-C-O	-5.65	114.56	120.55
1	1	191	VAL	CA-CB-CG2	-5.65	100.79	110.40
1	K	129	ILE	CA-C-O	5.65	127.16	121.17
1	M	156	GLY	CA-C-N	5.65	125.18	119.19
1	M	156	GLY	C-N-CA	5.65	125.18	119.19
1	T	180	GLU	CA-C-N	5.65	128.44	120.42
1	T	180	GLU	C-N-CA	5.65	128.44	120.42
1	g8	217	ALA	O-C-N	-5.65	115.08	122.59
1	g9	111	LEU	N-CA-C	-5.65	105.12	111.28
1	gi	224	PRO	CA-C-O	-5.65	112.48	118.92
1	gl	156	GLY	O-C-N	-5.65	116.12	121.77
1	gv	58	THR	CA-CB-OG1	5.65	118.08	109.60
1	1E	18	ARG	N-CA-C	-5.65	105.20	111.36
1	1E	95	GLN	CB-CA-C	5.65	121.00	109.76
1	gE	67	GLN	N-CA-C	5.65	117.12	111.07
1	gG	88	ALA	CA-C-N	5.65	130.74	121.87
1	gG	88	ALA	C-N-CA	5.65	130.74	121.87
1	1G	164	TYR	CA-C-O	5.65	126.75	120.82
1	h0	148	THR	CA-CB-OG1	5.65	118.08	109.60
1	h9	24	VAL	CA-C-N	5.65	130.29	120.68
1	h9	24	VAL	C-N-CA	5.65	130.29	120.68
1	hf	117	TRP	N-CA-CB	5.65	118.20	110.01
1	1K	23	TRP	CB-CG-CD2	5.65	134.71	126.80
1	hB	81	ASP	CA-CB-CG	5.65	118.25	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hJ	71	GLU	N-CA-CB	5.65	118.43	110.12
1	hN	44	SER	CA-C-N	5.65	127.85	120.28
1	hN	44	SER	C-N-CA	5.65	127.85	120.28
1	1M	204	ALA	O-C-N	-5.65	116.13	122.12
1	i6	179	GLN	N-CA-C	5.65	117.44	111.28
1	ib	134	ILE	O-C-N	-5.65	116.35	121.89
1	ic	207	PRO	N-CA-C	5.65	120.08	111.15
1	iG	190	LEU	O-C-N	-5.65	116.21	122.09
1	iK	124	ILE	O-C-N	-5.65	117.54	121.55
1	iL	192	GLN	O-C-N	-5.65	115.71	122.15
1	iW	107	THR	CA-C-O	-5.65	114.88	120.70
1	j0	189	LEU	CA-C-N	5.65	128.17	120.54
1	j0	189	LEU	C-N-CA	5.65	128.17	120.54
1	j8	168	PHE	CA-C-O	5.65	126.73	120.63
1	jd	199	LYS	N-CA-C	5.65	118.21	111.71
1	jg	155	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	jk	217	ALA	N-CA-C	5.65	117.62	110.33
1	jH	103	ASP	CA-CB-CG	-5.65	106.95	112.60
1	jT	106	GLY	CA-C-O	5.65	125.56	119.06
1	k6	9	GLN	CA-C-O	5.65	126.70	120.71
1	k7	192	GLN	N-CA-C	5.65	117.44	111.28
1	ks	161	PHE	O-C-N	-5.65	115.07	122.59
1	kJ	217	ALA	N-CA-C	5.65	117.58	110.24
1	kY	162	ARG	O-C-N	-5.65	115.71	122.15
1	l7	214	MET	CA-C-N	5.65	127.85	120.28
1	l7	214	MET	C-N-CA	5.65	127.85	120.28
1	lf	5	ASN	CA-CB-CG	5.65	118.25	112.60
1	lu	142	VAL	O-C-N	-5.65	116.39	121.87
1	lw	44	SER	O-C-N	-5.65	115.53	122.25
1	lw	110	THR	CA-CB-OG1	5.65	118.08	109.60
1	lC	16	SER	CA-C-N	5.65	125.32	119.56
1	lC	16	SER	C-N-CA	5.65	125.32	119.56
1	lM	12	HIS	N-CA-C	5.65	118.44	109.96
1	2e	121	ASN	CB-CG-ND2	5.65	124.88	116.40
1	2x	84	HIS	CA-C-N	5.65	125.41	119.76
1	2x	84	HIS	C-N-CA	5.65	125.41	119.76
1	2y	194	ALA	N-CA-C	5.65	118.03	110.35
1	2A	54	THR	O-C-N	-5.65	116.13	122.12
1	2C	36	VAL	N-CA-C	5.65	116.38	110.62
1	2U	150	ILE	O-C-N	-5.65	116.16	121.87
1	3b	204	ALA	N-CA-C	5.65	117.44	111.28
1	3q	195	ASN	O-C-N	-5.65	116.27	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3J	197	ASP	CA-CB-CG	-5.65	106.95	112.60
1	4d	84	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	4j	204	ALA	CA-C-N	5.65	132.20	122.09
1	4j	204	ALA	C-N-CA	5.65	132.20	122.09
1	4k	179	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	4q	12	HIS	O-C-N	-5.65	116.88	123.27
1	4A	166	ASP	CA-CB-CG	5.65	118.25	112.60
1	4P	154	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
1	54	229	ARG	N-CA-C	-5.65	105.73	113.30
1	57	205	LEU	CA-C-N	5.65	130.74	121.87
1	57	205	LEU	C-N-CA	5.65	130.74	121.87
1	5c	16	SER	N-CA-C	5.65	117.74	110.39
1	5g	202	LEU	CA-C-N	5.65	127.85	120.28
1	5g	202	LEU	C-N-CA	5.65	127.85	120.28
1	5y	184	TRP	CB-CG-CD2	5.65	134.71	126.80
1	5D	219	GLN	O-C-N	-5.65	115.28	122.34
1	5G	9	GLN	CB-CA-C	-5.65	102.47	111.17
1	5G	32	PHE	N-CA-C	5.65	118.74	109.76
1	5J	34	PRO	O-C-N	-5.65	115.01	122.64
1	5M	179	GLN	O-C-N	-5.65	116.25	122.07
1	5T	136	LEU	CA-C-N	5.65	126.38	119.99
1	5T	136	LEU	C-N-CA	5.65	126.38	119.99
1	60	99	PRO	CA-C-O	-5.65	114.59	121.03
1	66	192	GLN	N-CA-C	5.65	118.38	111.82
1	69	32	PHE	CA-CB-CG	-5.65	108.15	113.80
1	6e	49	PRO	N-CA-CB	5.65	109.18	103.25
1	6k	101	GLY	CA-C-N	5.65	128.17	120.54
1	6k	101	GLY	C-N-CA	5.65	128.17	120.54
1	6D	35	GLU	CA-C-O	5.65	126.39	119.05
1	6I	43	LEU	CA-C-O	5.65	126.47	119.97
1	6I	117	TRP	O-C-N	-5.65	115.71	122.15
1	6I	211	LEU	O-C-N	-5.65	115.61	122.22
1	75	33	SER	O-C-N	-5.65	114.82	121.32
1	75	166	ASP	CA-C-N	5.65	127.85	120.28
1	75	166	ASP	C-N-CA	5.65	127.85	120.28
1	7h	202	LEU	O-C-N	-5.65	116.25	122.07
1	7j	212	GLU	N-CA-C	5.65	117.11	111.07
1	7N	128	GLU	N-CA-C	5.65	117.44	111.28
1	7Q	76	GLU	CA-C-N	5.65	127.85	120.28
1	7Q	76	GLU	C-N-CA	5.65	127.85	120.28
1	7Q	112	GLN	O-C-N	5.65	128.11	122.12
1	7Z	104	ILE	N-CA-CB	5.65	117.80	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	91	ILE	CA-C-N	5.65	127.83	120.26
1	89	91	ILE	C-N-CA	5.65	127.83	120.26
1	8m	100	ARG	O-C-N	-5.65	116.29	122.84
1	8t	121	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	8t	181	VAL	N-CA-C	5.65	116.38	110.62
1	8J	226	HIS	CG-CD2-NE2	5.65	112.85	107.20
1	8K	120	HIS	CG-CD2-NE2	5.65	112.85	107.20
1	8K	158	LYS	O-C-N	-5.65	114.90	122.19
1	8L	206	GLY	CA-C-O	5.65	129.60	121.52
1	97	42	ALA	O-C-N	-5.65	115.32	122.27
1	9b	87	HIS	CA-CB-CG	-5.65	108.15	113.80
1	9c	135	ILE	CA-C-O	5.65	126.93	121.05
1	9w	90	PRO	CB-CA-C	-5.65	104.17	111.46
1	9P	77	ALA	CA-C-N	5.65	128.31	120.29
1	9P	77	ALA	C-N-CA	5.65	128.31	120.29
1	Y	57	ASN	CA-C-O	5.65	126.33	119.38
1	9W	177	ALA	O-C-N	-5.65	115.07	122.59
1	9Y	184	TRP	CB-CG-CD1	5.65	135.38	126.90
1	a4	54	THR	O-C-N	-5.65	116.13	122.12
1	a6	4	GLN	CA-C-N	5.65	133.02	122.74
1	a6	4	GLN	C-N-CA	5.65	133.02	122.74
1	a6	193	ASN	CB-CG-OD1	-5.65	109.50	120.80
1	ad	119	THR	CA-C-N	5.65	131.25	120.97
1	ad	119	THR	C-N-CA	5.65	131.25	120.97
1	ag	18	ARG	NE-CZ-NH2	-5.65	114.11	119.20
1	ai	224	PRO	CB-CA-C	5.65	118.41	111.12
1	aq	8	GLY	O-C-N	-5.65	116.20	122.47
1	aG	196	PRO	CA-C-N	5.65	127.79	120.44
1	aG	196	PRO	C-N-CA	5.65	127.79	120.44
1	aP	45	GLU	N-CA-C	5.65	117.89	111.11
1	b0	74	ASN	N-CA-CB	-5.65	101.80	110.16
1	b1	137	GLY	O-C-N	-5.65	116.54	122.13
1	b5	142	VAL	N-CA-C	5.65	117.06	110.62
1	bc	16	SER	CA-C-N	5.65	125.18	119.19
1	bc	16	SER	C-N-CA	5.65	125.18	119.19
1	bc	37	ILE	CA-C-N	5.65	125.01	118.85
1	bc	37	ILE	C-N-CA	5.65	125.01	118.85
1	bR	212	GLU	CA-C-N	5.65	127.85	120.28
1	bR	212	GLU	C-N-CA	5.65	127.85	120.28
1	bV	84	HIS	CB-CA-C	-5.65	104.57	110.33
1	1d	202	LEU	CA-C-N	5.65	127.79	120.44
1	1d	202	LEU	C-N-CA	5.65	127.79	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ck	2	ILE	CA-CB-CG2	5.65	120.11	110.50
1	cv	20	LEU	N-CA-C	5.65	117.12	111.07
1	cz	133	TRP	CA-C-N	5.65	127.79	120.56
1	cz	133	TRP	C-N-CA	5.65	127.79	120.56
1	cL	23	TRP	N-CA-C	5.65	117.44	111.28
1	cV	120	HIS	O-C-N	5.65	129.23	122.79
1	cX	213	GLU	O-C-N	-5.65	116.13	122.12
1	d2	95	GLN	CA-C-O	5.65	127.36	120.92
1	de	185	MET	N-CA-C	5.65	117.44	111.28
1	dg	31	ALA	N-CA-C	5.65	119.72	109.32
1	di	173	ARG	NH1-CZ-NH2	5.65	126.65	119.30
1	dG	147	PRO	O-C-N	-5.65	115.01	122.64
1	e2	164	TYR	CA-C-N	5.65	128.20	120.46
1	e2	164	TYR	C-N-CA	5.65	128.20	120.46
1	ea	87	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	eJ	133	TRP	CB-CG-CD2	-5.65	118.89	126.80
1	eN	152	ASP	CA-CB-CG	5.65	118.25	112.60
1	eP	62	HIS	ND1-CG-CD2	5.65	111.75	106.10
1	f1	2	ILE	CA-CB-CG1	5.65	120.00	110.40
1	fb	71	GLU	CA-CB-CG	5.65	125.40	114.10
1	fh	177	ALA	O-C-N	-5.65	115.54	123.11
1	fp	181	VAL	N-CA-CB	5.65	119.06	110.58
1	fs	146	SER	CA-C-N	5.65	125.65	119.89
1	fs	146	SER	C-N-CA	5.65	125.65	119.89
1	fu	87	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	fB	31	ALA	N-CA-CB	5.65	120.04	110.49
1	fW	209	ALA	N-CA-C	5.65	118.04	110.35
1	1A	129	ILE	N-CA-CB	5.65	117.16	110.55
1	g6	103	ASP	CA-C-N	5.65	128.20	120.46
1	g6	103	ASP	C-N-CA	5.65	128.20	120.46
1	a	18	ARG	NE-CZ-NH2	-5.65	114.11	119.20
1	j	181	VAL	CA-C-N	5.65	128.90	120.31
1	j	181	VAL	C-N-CA	5.65	128.90	120.31
1	p	26	VAL	CA-C-N	5.65	129.57	120.30
1	p	26	VAL	C-N-CA	5.65	129.57	120.30
1	2	39	MET	CA-C-O	5.65	126.47	119.97
1	y	117	TRP	O-C-N	-5.65	116.13	122.12
1	U	51	ASP	CA-CB-CG	-5.65	106.95	112.60
1	V	181	VAL	N-CA-C	5.65	116.43	110.72
1	g9	173	ARG	NE-CZ-NH1	-5.65	115.85	121.50
1	gb	78	ALA	N-CA-CB	5.65	118.52	110.16
1	gh	69	LEU	CA-C-N	5.65	127.85	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gh	69	LEU	C-N-CA	5.65	127.85	120.28
1	gL	187	GLU	CB-CA-C	5.65	119.66	110.96
1	gQ	184	TRP	CB-CA-C	5.65	120.17	110.79
1	gT	69	LEU	CA-C-O	5.65	126.75	120.82
1	gX	114	GLN	N-CA-C	5.65	117.44	111.28
1	h9	224	PRO	O-C-N	5.65	130.27	122.64
1	hv	6	LEU	O-C-N	-5.65	116.29	122.67
1	hB	53	ASN	CB-CA-C	-5.65	101.25	110.85
1	hK	87	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	hO	75	GLU	O-C-N	-5.65	116.25	122.07
1	ic	54	THR	CA-C-N	5.65	128.17	120.54
1	ic	54	THR	C-N-CA	5.65	128.17	120.54
1	ie	181	VAL	N-CA-C	-5.65	104.84	111.00
1	ih	71	GLU	N-CA-C	5.65	117.44	111.28
1	iu	192	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	iT	8	GLY	CA-C-O	-5.65	117.14	122.39
1	je	28	GLU	CA-C-O	5.65	126.54	120.55
1	jK	14	ALA	O-C-N	-5.65	116.34	123.01
1	kj	166	ASP	N-CA-C	5.65	118.17	111.33
1	24	62	HIS	CA-C-O	5.65	127.98	120.98
1	kX	162	ARG	O-C-N	5.65	128.11	122.12
1	kY	179	GLN	CA-C-N	5.65	127.85	120.28
1	kY	179	GLN	C-N-CA	5.65	127.85	120.28
1	l0	215	MET	CG-SD-CE	-5.65	88.47	100.90
1	lq	168	PHE	CA-CB-CG	-5.65	108.15	113.80
1	lw	112	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	2t	13	GLN	CA-C-N	5.65	128.79	120.82
1	2t	13	GLN	C-N-CA	5.65	128.79	120.82
1	30	208	ALA	CA-C-N	5.65	128.86	120.95
1	30	208	ALA	C-N-CA	5.65	128.86	120.95
1	4t	156	GLY	O-C-N	-5.65	116.53	122.18
1	4P	112	GLN	N-CA-C	5.65	117.44	111.28
1	4V	151	LEU	N-CA-CB	-5.65	101.19	110.40
1	5d	133	TRP	O-C-N	-5.65	116.22	122.09
1	5l	177	ALA	N-CA-C	5.65	118.52	110.10
1	60	87	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	6v	159	GLU	N-CA-CB	5.65	116.29	109.74
1	6K	184	TRP	N-CA-C	5.65	117.44	111.28
1	6P	95	GLN	O-C-N	-5.65	116.62	123.29
1	7i	165	VAL	O-C-N	5.65	127.43	121.89
1	7D	203	LYS	CA-C-O	-5.65	113.47	119.97
1	7P	4	GLN	OE1-CD-NE2	5.65	128.25	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	27	VAL	N-CA-C	5.65	117.06	110.62
1	8n	112	GLN	N-CA-C	5.65	117.44	111.28
1	8o	155	GLN	CB-CA-C	5.65	118.71	109.90
1	8L	39	MET	N-CA-C	5.65	117.44	111.28
1	8O	222	GLY	CA-C-O	5.65	126.13	119.46
1	8X	150	ILE	CA-C-O	5.65	126.92	121.05
1	94	159	GLU	CA-C-O	-5.65	115.03	119.66
1	98	103	ASP	CA-C-O	-5.65	114.56	120.55
1	9e	144	MET	N-CA-C	5.65	117.44	111.28
1	9f	70	LYS	CB-CG-CD	5.65	124.29	111.30
1	9m	129	ILE	N-CA-C	5.65	116.29	110.36
1	9E	16	SER	O-C-N	-5.65	116.15	121.35
1	a3	124	ILE	CB-CA-C	-5.65	104.67	110.71
1	ab	77	ALA	CA-C-O	5.65	126.54	120.55
1	an	163	ASP	CA-CB-CG	5.65	118.25	112.60
1	au	83	LEU	CA-C-N	5.65	130.42	122.74
1	au	83	LEU	C-N-CA	5.65	130.42	122.74
1	av	186	THR	O-C-N	-5.65	116.25	122.07
1	ay	189	LEU	N-CA-CB	5.65	119.00	110.30
1	b5	221	VAL	CA-C-O	5.65	126.03	119.36
1	bf	206	GLY	CA-C-N	5.65	125.01	118.85
1	bf	206	GLY	C-N-CA	5.65	125.01	118.85
1	bo	194	ALA	N-CA-C	5.65	117.99	110.53
1	bs	87	HIS	O-C-N	-5.65	116.07	123.02
1	bB	192	GLN	CG-CD-NE2	-5.65	107.93	116.40
1	bN	39	MET	O-C-N	-5.65	116.13	122.12
1	c8	57	ASN	CB-CG-ND2	-5.65	107.93	116.40
1	cK	149	SER	CA-C-N	-5.65	115.87	122.14
1	cK	149	SER	C-N-CA	-5.65	115.87	122.14
1	cN	18	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	cQ	110	THR	CA-C-O	5.65	127.97	121.47
1	cW	27	VAL	N-CA-CB	5.65	117.16	110.55
1	d5	122	PRO	CA-C-N	5.65	125.65	119.89
1	d5	122	PRO	C-N-CA	5.65	125.65	119.89
1	em	3	VAL	O-C-N	-5.65	117.04	122.97
1	eF	63	GLN	CA-C-O	-5.65	113.72	120.10
1	eL	83	LEU	CA-C-O	5.65	126.41	120.42
1	eW	222	GLY	CA-C-N	5.65	130.74	121.87
1	eW	222	GLY	C-N-CA	5.65	130.74	121.87
1	f9	229	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	fa	160	PRO	O-C-N	-5.65	116.11	123.06
1	fj	210	THR	O-C-N	-5.65	116.19	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	28	GLU	N-CA-CB	5.65	119.04	110.28
1	g1	4	GLN	CA-C-N	5.65	127.85	120.28
1	g1	4	GLN	C-N-CA	5.65	127.85	120.28
1	i	209	ALA	N-CA-CB	-5.65	102.58	110.38
1	p	86	VAL	N-CA-C	5.65	116.36	109.30
1	t	104	ILE	N-CA-C	5.65	116.43	110.72
1	A	50	GLN	N-CA-C	5.65	118.17	111.33
1	J	120	HIS	CA-CB-CG	5.65	119.45	113.80
1	gp	59	VAL	N-CA-C	5.65	116.51	107.98
1	gv	70	LYS	CA-C-O	-5.65	114.89	120.82
1	gz	99	PRO	N-CD-CG	5.65	111.67	103.20
1	gA	23	TRP	CA-C-O	-5.65	114.43	120.42
1	gN	39	MET	CA-C-O	-5.65	114.88	120.70
1	1G	172	LEU	N-CA-C	5.65	120.16	113.16
1	h3	96	MET	CB-CA-C	5.65	117.56	109.71
1	h3	155	GLN	CA-CB-CG	5.65	125.40	114.10
1	hC	100	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	hE	143	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	hG	27	VAL	N-CA-C	5.65	115.84	110.42
1	hG	107	THR	CA-CB-CG2	5.65	120.10	110.50
1	hI	55	MET	N-CA-C	5.65	117.52	111.36
1	hL	28	GLU	N-CA-C	5.65	117.44	111.28
1	hN	176	GLN	CB-CG-CD	5.65	122.20	112.60
1	hQ	82	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	hQ	111	LEU	CA-C-N	5.65	127.85	120.28
1	hQ	111	LEU	C-N-CA	5.65	127.85	120.28
1	i0	98	GLU	CA-C-O	-5.65	115.03	119.66
1	i7	136	LEU	CA-C-N	5.65	126.21	119.94
1	i7	136	LEU	C-N-CA	5.65	126.21	119.94
1	ie	197	ASP	O-C-N	5.65	128.19	122.09
1	in	85	PRO	N-CA-CB	5.65	108.26	103.35
1	ip	153	ILE	CA-C-N	5.65	130.37	121.56
1	ip	153	ILE	C-N-CA	5.65	130.37	121.56
1	iq	179	GLN	N-CA-CB	-5.65	101.82	110.12
1	ix	86	VAL	N-CA-C	5.65	116.35	108.89
1	iz	66	MET	N-CA-C	5.65	117.44	111.28
1	iH	86	VAL	N-CA-C	5.65	118.70	109.78
1	iJ	66	MET	CA-C-O	-5.65	114.43	120.42
1	iS	41	SER	CA-C-N	5.65	127.85	120.28
1	iS	41	SER	C-N-CA	5.65	127.85	120.28
1	j7	39	MET	O-C-N	-5.65	116.25	122.07
1	jb	120	HIS	CA-C-O	5.65	127.54	121.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	153	ILE	CA-C-N	5.65	132.33	121.54
1	jx	153	ILE	C-N-CA	5.65	132.33	121.54
1	jx	219	GLN	OE1-CD-NE2	5.65	128.25	122.60
1	jy	141	ILE	CA-C-N	5.65	128.20	120.46
1	jy	141	ILE	C-N-CA	5.65	128.20	120.46
1	jM	50	GLN	CA-C-O	-5.65	114.89	120.82
1	jY	59	VAL	N-CA-CB	-5.65	104.62	110.95
1	k9	80	TRP	CA-C-N	-5.65	111.72	120.31
1	k9	80	TRP	C-N-CA	-5.65	111.72	120.31
1	kc	216	THR	N-CA-C	-5.65	106.05	113.17
1	kj	39	MET	N-CA-CB	-5.65	101.82	110.12
1	22	161	PHE	N-CA-C	5.65	117.44	111.28
1	kB	169	TYR	CA-CB-CG	-5.65	103.74	113.90
1	kC	204	ALA	O-C-N	-5.65	116.25	122.07
1	kN	8	GLY	N-CA-C	5.65	122.08	111.80
1	kQ	10	MET	N-CA-C	5.65	117.89	109.59
1	kQ	190	LEU	CA-C-N	5.65	128.44	120.42
1	kQ	190	LEU	C-N-CA	5.65	128.44	120.42
1	kW	58	THR	OG1-CB-CG2	-5.65	98.00	109.30
1	kZ	176	GLN	OE1-CD-NE2	-5.65	116.95	122.60
1	lm	20	LEU	N-CA-C	5.65	117.44	111.28
1	ls	110	THR	CA-CB-OG1	5.65	118.07	109.60
1	lA	118	MET	CG-SD-CE	-5.65	88.48	100.90
1	lP	176	GLN	CG-CD-NE2	5.65	124.87	116.40
1	2e	195	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	2t	176	GLN	CA-C-O	5.65	125.90	119.18
1	2x	57	ASN	N-CA-C	5.65	118.20	111.71
1	2y	164	TYR	N-CA-C	5.65	117.52	111.36
1	2E	71	GLU	CB-CG-CD	5.65	122.20	112.60
1	2T	136	LEU	O-C-N	5.65	129.22	122.27
1	2U	3	VAL	CA-C-O	5.65	128.41	121.75
1	35	156	GLY	CA-C-O	5.65	127.55	121.62
1	37	163	ASP	CA-C-N	5.65	128.12	120.44
1	37	163	ASP	C-N-CA	5.65	128.12	120.44
1	3b	70	LYS	N-CA-C	5.65	117.11	111.07
1	3G	115	ILE	CA-C-O	5.65	126.82	120.95
1	3T	62	HIS	CA-CB-CG	-5.65	108.15	113.80
1	3T	180	GLU	N-CA-C	5.65	118.16	111.33
1	4e	92	GLU	CA-C-N	5.65	126.90	119.84
1	4e	92	GLU	C-N-CA	5.65	126.90	119.84
1	4j	103	ASP	N-CA-C	5.65	117.11	111.07
1	4l	91	ILE	N-CA-C	5.65	115.80	108.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4p	22	ALA	N-CA-CB	-5.65	101.82	110.12
1	4q	47	ALA	CA-C-O	5.65	127.49	121.05
1	4N	74	ASN	N-CA-C	5.65	118.16	111.33
1	4Z	196	PRO	CA-C-N	5.65	127.85	120.28
1	4Z	196	PRO	C-N-CA	5.65	127.85	120.28
1	52	33	SER	N-CA-C	5.65	116.81	109.64
1	54	87	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	57	207	PRO	N-CA-C	5.65	120.09	111.11
1	5p	69	LEU	CA-C-N	5.65	128.12	120.38
1	5p	69	LEU	C-N-CA	5.65	128.12	120.38
1	5r	201	ILE	CB-CA-C	-5.65	104.52	112.14
1	5v	26	VAL	CA-C-O	-5.65	115.40	121.27
1	5B	114	GLN	O-C-N	5.65	127.96	122.09
1	5M	128	GLU	CA-C-N	5.65	127.79	120.56
1	5M	128	GLU	C-N-CA	5.65	127.79	120.56
1	5M	230	VAL	O-C-N	-5.65	116.52	122.67
1	5P	208	ALA	CA-C-N	5.65	128.89	120.87
1	5P	208	ALA	C-N-CA	5.65	128.89	120.87
1	5S	177	ALA	N-CA-CB	-5.65	101.67	109.97
1	69	226	HIS	CA-CB-CG	5.65	119.45	113.80
1	6i	65	ALA	CA-C-N	5.65	127.85	120.28
1	6i	65	ALA	C-N-CA	5.65	127.85	120.28
1	6s	212	GLU	O-C-N	-5.65	116.13	122.12
1	6w	134	ILE	N-CA-C	5.65	115.84	110.53
1	6A	56	LEU	CA-C-O	5.65	126.54	120.55
1	6B	209	ALA	CB-CA-C	5.65	119.09	109.72
1	6T	155	GLN	N-CA-C	5.65	118.37	109.96
1	7k	212	GLU	N-CA-C	5.65	117.11	111.07
1	7m	134	ILE	CA-C-N	5.65	127.68	120.56
1	7m	134	ILE	C-N-CA	5.65	127.68	120.56
1	7p	21	ASN	N-CA-C	5.65	117.44	111.28
1	7u	59	VAL	CB-CA-C	5.65	118.90	111.33
1	7K	88	ALA	N-CA-CB	5.65	119.48	110.16
1	7O	230	VAL	N-CA-C	5.65	117.00	109.37
1	7R	159	GLU	O-C-N	5.65	126.22	121.31
1	7S	59	VAL	N-CA-CB	5.65	117.82	111.21
1	7U	68	MET	O-C-N	-5.65	116.13	122.12
1	89	100	ARG	CB-CG-CD	5.65	124.29	111.30
1	8j	109	SER	O-C-N	-5.65	116.61	123.16
1	8s	82	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	8A	26	VAL	CA-C-O	-5.65	115.18	121.17
1	8A	226	HIS	CG-CD2-NE2	5.65	112.85	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Q	42	ALA	N-CA-CB	5.65	118.20	110.01
1	8X	127	GLY	N-CA-C	5.65	119.51	112.73
1	99	55	MET	CA-C-N	5.65	128.12	120.38
1	99	55	MET	C-N-CA	5.65	128.12	120.38
1	9F	195	ASN	CA-CB-CG	5.65	118.25	112.60
1	a0	52	LEU	CD1-CG-CD2	5.65	123.22	110.80
1	a0	129	ILE	N-CA-C	5.65	116.38	110.62
1	a4	176	GLN	CG-CD-NE2	5.65	124.87	116.40
1	ab	176	GLN	N-CA-CB	5.65	118.67	110.88
1	ae	54	THR	CA-C-O	-5.65	114.89	120.82
1	ap	175	GLU	N-CA-C	5.65	118.46	110.50
1	aw	37	ILE	CA-C-N	5.65	125.32	119.05
1	aw	37	ILE	C-N-CA	5.65	125.32	119.05
1	aH	18	ARG	O-C-N	-5.65	116.25	122.07
1	bi	173	ARG	CA-C-N	5.65	127.85	120.28
1	bi	173	ARG	C-N-CA	5.65	127.85	120.28
1	bp	41	SER	N-CA-C	5.65	117.11	111.07
1	bB	154	ARG	O-C-N	-5.65	116.61	123.10
1	bD	31	ALA	CA-C-N	5.65	131.41	122.60
1	bD	31	ALA	C-N-CA	5.65	131.41	122.60
1	bQ	132	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	bT	109	SER	CA-C-O	-5.65	114.53	120.80
1	bW	5	ASN	N-CA-CB	-5.65	101.74	110.04
1	c1	125	PRO	CA-C-O	-5.65	114.75	123.16
1	c3	90	PRO	CB-CA-C	5.65	118.73	111.56
1	c8	14	ALA	CB-CA-C	-5.65	100.21	109.53
1	cp	74	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	cs	180	GLU	CA-C-N	5.65	127.79	120.56
1	cs	180	GLU	C-N-CA	5.65	127.79	120.56
1	cv	164	TYR	N-CA-C	5.65	117.52	111.36
1	cB	53	ASN	O-C-N	-5.65	116.25	122.07
1	cG	172	LEU	N-CA-C	-5.65	105.27	111.82
1	cT	214	MET	CG-SD-CE	-5.65	88.47	100.90
1	cU	62	HIS	CA-CB-CG	5.65	119.45	113.80
1	cW	87	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
1	dc	164	TYR	N-CA-CB	-5.65	101.59	110.06
1	1k	10	MET	CG-SD-CE	-5.65	88.48	100.90
1	dT	144	MET	CB-CA-C	5.65	119.75	110.88
1	dU	51	ASP	CA-C-N	5.65	127.85	120.28
1	dU	51	ASP	C-N-CA	5.65	127.85	120.28
1	e7	43	LEU	CA-C-O	5.65	126.31	119.31
1	eq	82	ARG	N-CA-C	5.65	117.89	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eA	65	ALA	CB-CA-C	-5.65	101.42	110.79
1	eN	202	LEU	N-CA-C	5.65	118.16	111.33
1	eR	224	PRO	CA-C-N	5.65	132.48	121.41
1	eR	224	PRO	C-N-CA	5.65	132.48	121.41
1	eY	77	ALA	O-C-N	-5.65	116.13	122.12
1	fh	55	MET	N-CA-C	5.65	117.11	111.07
1	fr	62	HIS	CB-CG-ND1	-5.65	114.23	122.70
1	fs	146	SER	N-CA-C	5.65	120.43	112.75
1	ft	100	ARG	CB-CG-CD	5.65	124.29	111.30
1	fv	192	GLN	CA-C-O	5.65	126.45	119.79
1	fK	216	THR	CA-C-N	5.65	128.73	120.71
1	fK	216	THR	C-N-CA	5.65	128.73	120.71
1	fR	139	ASN	OD1-CG-ND2	-5.65	116.95	122.60
1	fV	87	HIS	ND1-CE1-NE2	5.65	114.05	108.40
1	fZ	218	CYS	O-C-N	-5.65	115.02	122.47
1	fZ	224	PRO	CB-CA-C	5.65	120.88	111.56
1	g4	58	THR	N-CA-C	5.65	118.21	111.71
1	f	76	GLU	N-CA-CB	-5.65	101.53	110.28
1	j	191	VAL	N-CA-C	-5.65	104.84	111.00
1	l	9	GLN	O-C-N	-5.65	116.04	123.16
1	p	132	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	M	132	ARG	N-CA-C	5.65	117.52	111.36
1	O	42	ALA	N-CA-C	5.65	120.69	111.37
1	go	55	MET	CA-C-O	5.65	126.53	120.55
1	gr	89	GLY	CA-C-N	5.65	126.90	119.84
1	gr	89	GLY	C-N-CA	5.65	126.90	119.84
1	h3	44	SER	O-C-N	-5.65	114.67	122.46
1	hg	58	THR	CA-C-N	-5.65	113.90	121.80
1	hg	58	THR	C-N-CA	-5.65	113.90	121.80
1	hq	167	ARG	CA-C-N	5.65	127.78	120.44
1	hq	167	ARG	C-N-CA	5.65	127.78	120.44
1	1K	152	ASP	CA-C-O	5.65	126.26	119.43
1	hR	185	MET	CG-SD-CE	-5.65	88.48	100.90
1	ic	64	ALA	N-CA-C	5.65	117.51	111.36
1	ih	43	LEU	N-CA-C	5.65	117.11	111.07
1	iy	26	VAL	N-CA-C	5.65	116.38	110.62
1	j6	162	ARG	N-CA-C	5.65	117.43	111.28
1	1V	229	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	1X	82	ARG	CA-C-N	5.65	127.78	120.44
1	1X	82	ARG	C-N-CA	5.65	127.78	120.44
1	kc	159	GLU	N-CA-CB	-5.65	102.67	110.29
1	ke	224	PRO	N-CA-C	5.65	120.09	111.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kg	39	MET	N-CA-CB	5.65	118.42	110.12
1	kx	95	GLN	N-CA-C	5.65	117.11	111.07
1	kI	73	ILE	CA-C-N	5.65	127.85	120.28
1	kI	73	ILE	C-N-CA	5.65	127.85	120.28
1	le	216	THR	CA-C-N	5.65	129.28	120.75
1	le	216	THR	C-N-CA	5.65	129.28	120.75
1	lh	161	PHE	CA-CB-CG	5.65	119.45	113.80
1	lm	45	GLU	CB-CA-C	-5.65	100.86	109.89
1	lD	101	GLY	N-CA-C	5.65	119.05	112.50
1	lR	68	MET	N-CA-C	5.65	117.43	111.28
1	2L	167	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	3J	150	ILE	CA-CB-CG1	5.65	120.00	110.40
1	46	229	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	4g	141	ILE	N-CA-C	5.65	116.29	110.36
1	5t	8	GLY	N-CA-C	5.65	122.08	111.80
1	5v	128	GLU	N-CA-CB	-5.65	101.80	110.16
1	5N	113	GLU	N-CA-C	5.65	117.43	111.28
1	5P	128	GLU	CA-C-N	5.65	127.67	120.56
1	5P	128	GLU	C-N-CA	5.65	127.67	120.56
1	5S	154	ARG	NE-CZ-NH1	5.65	127.15	121.50
1	61	102	SER	CA-C-O	5.65	126.33	119.38
1	6j	89	GLY	CA-C-O	-5.65	113.45	121.52
1	6C	37	ILE	O-C-N	5.65	124.03	120.42
1	6L	126	VAL	N-CA-C	5.65	117.06	110.62
1	6S	103	ASP	CA-C-N	5.65	128.19	120.46
1	6S	103	ASP	C-N-CA	5.65	128.19	120.46
1	77	25	LYS	CA-C-N	5.65	128.19	120.46
1	77	25	LYS	C-N-CA	5.65	128.19	120.46
1	7R	154	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	8i	131	LYS	CA-C-O	-5.65	114.56	120.55
1	8v	190	LEU	CA-C-N	5.65	128.44	120.42
1	8v	190	LEU	C-N-CA	5.65	128.44	120.42
1	8z	25	LYS	N-CA-C	5.65	117.43	111.28
1	8H	184	TRP	CB-CG-CD2	5.65	134.71	126.80
1	92	74	ASN	CB-CG-ND2	-5.65	107.93	116.40
1	9k	99	PRO	N-CA-CB	-5.65	97.83	103.19
1	9l	216	THR	CA-C-O	5.65	126.52	119.12
1	9w	159	GLU	CB-CA-C	5.65	117.56	109.26
1	9B	139	ASN	CA-C-O	5.65	126.53	120.55
1	9C	227	LYS	N-CA-C	5.65	118.64	110.28
1	9O	200	THR	CA-CB-OG1	5.65	118.07	109.60
1	a6	173	ARG	CA-C-N	5.65	128.31	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a6	173	ARG	C-N-CA	5.65	128.31	120.29
1	aC	19	THR	CA-C-O	5.65	126.53	120.55
1	aV	89	GLY	CA-C-N	5.65	126.90	119.84
1	aV	89	GLY	C-N-CA	5.65	126.90	119.84
1	b0	57	ASN	CA-C-N	5.65	128.89	120.31
1	b0	57	ASN	C-N-CA	5.65	128.89	120.31
1	bg	226	HIS	CA-CB-CG	-5.65	108.15	113.80
1	bC	120	HIS	CB-CG-CD2	-5.65	123.86	131.20
1	bN	76	GLU	O-C-N	-5.65	115.71	122.15
1	c5	150	ILE	N-CA-C	5.65	121.08	109.34
1	cH	96	MET	N-CA-C	5.65	119.63	111.56
1	cH	107	THR	CA-C-N	5.65	131.86	122.54
1	cH	107	THR	C-N-CA	5.65	131.86	122.54
1	cR	127	GLY	O-C-N	-5.65	116.71	122.19
1	cW	97	ARG	NE-CZ-NH2	-5.65	114.12	119.20
1	cX	133	TRP	N-CA-CB	5.65	118.26	110.07
1	d7	82	ARG	O-C-N	-5.65	116.14	122.12
1	d9	119	THR	CA-C-O	5.65	126.94	120.90
1	dl	183	ASN	N-CA-C	-5.65	105.03	111.07
1	do	202	LEU	N-CA-C	5.65	117.43	111.28
1	dp	126	VAL	CA-C-N	5.65	126.21	119.94
1	dp	126	VAL	C-N-CA	5.65	126.21	119.94
1	dw	208	ALA	N-CA-C	5.65	117.43	111.28
1	dI	147	PRO	CA-C-N	5.65	132.32	121.54
1	dI	147	PRO	C-N-CA	5.65	132.32	121.54
1	dS	223	GLY	N-CA-C	5.65	123.86	112.34
1	dT	172	LEU	N-CA-C	5.65	118.37	111.82
1	dY	92	GLU	CA-C-N	-5.65	114.51	120.66
1	dY	92	GLU	C-N-CA	-5.65	114.51	120.66
1	ed	74	ASN	CA-CB-CG	-5.65	106.95	112.60
1	em	123	PRO	N-CA-C	5.65	120.09	111.34
1	eC	116	GLY	O-C-N	-5.65	116.77	122.19
1	eO	67	GLN	N-CA-CB	5.65	118.42	110.12
1	f7	104	ILE	CA-C-N	5.65	128.41	120.28
1	f7	104	ILE	C-N-CA	5.65	128.41	120.28
1	f9	52	LEU	N-CA-C	5.65	117.51	111.36
1	fi	119	THR	O-C-N	-5.65	114.58	122.37
1	fs	131	LYS	CA-C-N	5.65	128.41	120.28
1	fs	131	LYS	C-N-CA	5.65	128.41	120.28
1	fA	193	ASN	CA-C-O	5.65	126.17	119.56
1	fE	80	TRP	N-CA-C	-5.65	105.03	111.07
1	fE	143	ARG	CA-C-N	5.65	127.78	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fE	143	ARG	C-N-CA	5.65	127.78	120.44
1	1z	147	PRO	N-CA-CB	-5.65	97.96	102.36
1	g6	54	THR	CA-C-N	5.65	127.78	120.44
1	g6	54	THR	C-N-CA	5.65	127.78	120.44
1	b	229	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	f	100	ARG	CB-CA-C	-5.65	99.84	110.51
1	o	187	GLU	CA-C-N	5.65	129.16	122.44
1	o	187	GLU	C-N-CA	5.65	129.16	122.44
1	v	162	ARG	N-CA-C	5.65	117.43	111.28
1	z	162	ARG	CA-C-N	5.65	127.78	120.44
1	z	162	ARG	C-N-CA	5.65	127.78	120.44
1	D	57	ASN	CA-CB-CG	-5.65	106.95	112.60
1	4	7	GLN	CA-C-O	5.65	127.40	121.19
1	6	221	VAL	N-CA-CB	5.65	118.94	110.13
1	7	169	TYR	CA-CB-CG	-5.65	103.74	113.90
1	gl	26	VAL	CA-CB-CG1	5.64	119.99	110.40
1	gs	206	GLY	O-C-N	5.64	127.42	121.77
1	gG	69	LEU	CA-C-N	5.64	128.31	120.29
1	gG	69	LEU	C-N-CA	5.64	128.31	120.29
1	gU	185	MET	N-CA-CB	-5.64	102.14	110.49
1	gZ	87	HIS	O-C-N	-5.64	115.50	123.01
1	h1	82	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	h3	60	GLY	CA-C-N	5.64	129.75	121.96
1	h3	60	GLY	C-N-CA	5.64	129.75	121.96
1	h6	153	ILE	CB-CA-C	-5.64	103.81	111.15
1	h7	107	THR	N-CA-C	5.64	117.43	111.28
1	1J	83	LEU	O-C-N	-5.64	116.14	122.12
1	hr	22	ALA	O-C-N	-5.64	116.14	122.12
1	hx	190	LEU	N-CA-C	5.64	117.43	111.28
1	hA	167	ARG	CA-C-O	5.64	126.46	119.97
1	hC	178	SER	N-CA-C	5.64	122.82	110.80
1	hM	182	LYS	N-CA-C	5.64	117.51	111.36
1	hN	226	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	i0	213	GLU	N-CA-CB	5.64	118.99	110.30
1	i1	207	PRO	CA-C-N	5.64	131.64	122.67
1	i1	207	PRO	C-N-CA	5.64	131.64	122.67
1	i3	86	VAL	O-C-N	-5.64	116.81	122.62
1	i4	162	ARG	NE-CZ-NH2	5.64	124.28	119.20
1	i7	16	SER	CA-CB-OG	5.64	122.39	111.10
1	ib	98	GLU	CA-C-O	5.64	126.44	120.63
1	ie	89	GLY	CA-C-N	5.64	126.90	119.84
1	ie	89	GLY	C-N-CA	5.64	126.90	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	58	THR	CA-C-N	5.64	128.06	120.50
1	ig	58	THR	C-N-CA	5.64	128.06	120.50
1	iE	152	ASP	CA-C-O	5.64	125.90	119.18
1	iV	167	ARG	CA-C-O	-5.64	114.57	120.55
1	j0	95	GLN	O-C-N	-5.64	116.61	123.10
1	j9	70	LYS	CA-C-N	5.64	127.84	120.28
1	j9	70	LYS	C-N-CA	5.64	127.84	120.28
1	ji	143	ARG	N-CA-CB	5.64	118.99	110.30
1	jk	161	PHE	CA-C-O	-5.64	114.57	120.55
1	1V	183	ASN	N-CA-CB	5.64	118.19	110.01
1	1W	119	THR	N-CA-C	-5.64	105.60	112.88
1	jx	84	HIS	CA-C-N	5.64	126.90	119.84
1	jx	84	HIS	C-N-CA	5.64	126.90	119.84
1	jy	19	THR	N-CA-CB	5.64	118.42	110.12
1	jV	4	GLN	CA-C-O	-5.64	114.84	121.16
1	jZ	48	THR	N-CA-CB	5.64	115.87	109.49
1	20	142	VAL	O-C-N	-5.64	116.02	121.83
1	kj	120	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	kk	62	HIS	CA-CB-CG	-5.64	108.16	113.80
1	kr	62	HIS	CA-CB-CG	-5.64	108.16	113.80
1	ks	119	THR	N-CA-CB	5.64	118.84	110.49
1	22	208	ALA	N-CA-C	5.64	119.89	112.89
1	kB	188	THR	CA-C-N	5.64	130.23	120.58
1	kB	188	THR	C-N-CA	5.64	130.23	120.58
1	kG	22	ALA	CA-C-N	5.64	128.16	120.54
1	kG	22	ALA	C-N-CA	5.64	128.16	120.54
1	kJ	138	LEU	N-CA-CB	5.64	118.20	110.01
1	kM	162	ARG	CA-C-N	5.64	127.84	120.28
1	kM	162	ARG	C-N-CA	5.64	127.84	120.28
1	kV	188	THR	CA-C-N	5.64	130.28	120.68
1	kV	188	THR	C-N-CA	5.64	130.28	120.68
1	l1	168	PHE	N-CA-C	5.64	117.43	111.28
1	l4	203	LYS	CB-CA-C	-5.64	101.42	110.79
1	lb	7	GLN	O-C-N	-5.64	115.20	122.20
1	lf	82	ARG	CA-C-N	5.64	127.84	120.28
1	lf	82	ARG	C-N-CA	5.64	127.84	120.28
1	lj	91	ILE	N-CA-C	5.64	116.07	108.17
1	29	16	SER	CA-C-N	5.64	126.90	119.84
1	29	16	SER	C-N-CA	5.64	126.90	119.84
1	lE	165	VAL	CA-CB-CG1	5.64	120.00	110.40
1	lH	133	TRP	CE3-CZ3-CH2	-5.64	113.76	121.10
1	lM	198	CYS	N-CA-C	5.64	119.89	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	117	TRP	CA-C-N	5.64	128.31	120.29
1	lR	117	TRP	C-N-CA	5.64	128.31	120.29
1	2h	83	LEU	N-CA-C	5.64	120.44	113.50
1	2k	177	ALA	CA-C-N	5.64	129.27	120.75
1	2k	177	ALA	C-N-CA	5.64	129.27	120.75
1	2o	77	ALA	CA-C-O	5.64	126.75	120.82
1	2p	58	THR	N-CA-CB	5.64	119.76	110.39
1	2u	133	TRP	CA-C-N	5.64	127.67	120.56
1	2u	133	TRP	C-N-CA	5.64	127.67	120.56
1	2V	80	TRP	CA-C-O	5.64	126.48	120.10
1	2V	164	TYR	N-CA-C	5.64	117.51	111.36
1	36	123	PRO	N-CA-C	5.64	120.08	111.11
1	36	148	THR	N-CA-CB	5.64	118.30	110.17
1	38	169	TYR	CB-CG-CD2	5.64	129.27	120.80
1	3d	132	ARG	CA-C-N	5.64	128.30	120.29
1	3d	132	ARG	C-N-CA	5.64	128.30	120.29
1	3g	37	ILE	N-CA-C	5.64	119.12	112.35
1	3n	136	LEU	CA-C-N	5.64	126.35	120.03
1	3n	136	LEU	C-N-CA	5.64	126.35	120.03
1	3o	32	PHE	O-C-N	-5.64	115.21	122.21
1	3A	112	GLN	CA-C-O	5.64	126.75	120.82
1	3P	50	GLN	N-CA-C	5.64	117.11	111.07
1	42	43	LEU	N-CA-C	5.64	117.51	111.36
1	43	53	ASN	N-CA-C	5.64	117.43	111.28
1	4d	85	PRO	CB-CA-C	5.64	118.62	111.39
1	4d	169	TYR	O-C-N	-5.64	115.33	122.27
1	4i	132	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	4o	125	PRO	N-CA-CB	5.64	106.20	102.25
1	4X	113	GLU	CA-C-N	5.64	128.10	120.65
1	4X	113	GLU	C-N-CA	5.64	128.10	120.65
1	5r	84	HIS	CG-CD2-NE2	5.64	112.84	107.20
1	5s	38	PRO	CA-C-N	5.64	127.78	120.44
1	5s	38	PRO	C-N-CA	5.64	127.78	120.44
1	5F	23	TRP	CG-CD1-NE1	-5.64	102.86	110.20
1	5I	53	ASN	CA-C-N	5.64	128.89	120.31
1	5I	53	ASN	C-N-CA	5.64	128.89	120.31
1	5I	144	MET	N-CA-C	5.64	118.20	111.71
1	5M	121	ASN	CA-CB-CG	5.64	118.24	112.60
1	5M	133	TRP	CE2-CD2-CE3	5.64	124.44	118.80
1	5Q	126	VAL	N-CA-C	5.64	116.42	110.72
1	5R	125	PRO	N-CD-CG	5.64	111.67	103.20
1	5W	210	THR	O-C-N	-5.64	115.08	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Z	50	GLN	N-CA-C	5.64	117.11	111.07
1	6g	53	ASN	CA-C-N	5.64	128.16	120.54
1	6g	53	ASN	C-N-CA	5.64	128.16	120.54
1	6p	86	VAL	O-C-N	-5.64	116.17	122.66
1	6w	179	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	6A	164	TYR	O-C-N	5.64	128.10	122.12
1	6O	77	ALA	N-CA-C	5.64	118.20	111.71
1	6R	24	VAL	CA-C-N	5.64	127.78	120.44
1	6R	24	VAL	C-N-CA	5.64	127.78	120.44
1	77	69	LEU	N-CA-C	5.64	117.43	111.28
1	78	73	ILE	CA-CB-CG1	5.64	119.99	110.40
1	79	219	GLN	OE1-CD-NE2	-5.64	116.95	122.60
1	7n	15	ILE	CA-C-N	5.64	131.66	120.94
1	7n	15	ILE	C-N-CA	5.64	131.66	120.94
1	7t	66	MET	N-CA-C	5.64	117.43	111.28
1	7v	166	ASP	N-CA-C	-5.64	105.03	111.07
1	7y	143	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	7K	51	ASP	N-CA-C	5.64	118.20	111.71
1	8p	189	LEU	CA-C-N	5.64	127.84	120.28
1	8p	189	LEU	C-N-CA	5.64	127.84	120.28
1	8r	75	GLU	CA-C-N	5.64	128.30	120.29
1	8r	75	GLU	C-N-CA	5.64	128.30	120.29
1	8A	184	TRP	CA-CB-CG	5.64	124.32	113.60
1	8T	5	ASN	CA-C-O	5.64	125.49	118.43
1	8Y	152	ASP	CA-CB-CG	5.64	118.25	112.60
1	98	21	ASN	OD1-CG-ND2	-5.64	116.95	122.60
1	9d	87	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	9m	221	VAL	N-CA-C	5.64	116.25	108.12
1	9z	11	VAL	O-C-N	-5.64	117.08	123.18
1	9E	184	TRP	O-C-N	5.64	127.88	122.07
1	9G	175	GLU	N-CA-C	5.64	118.42	110.23
1	9I	70	LYS	CA-C-N	5.64	128.16	120.54
1	9I	70	LYS	C-N-CA	5.64	128.16	120.54
1	9N	96	MET	N-CA-C	5.64	117.65	109.07
1	9S	177	ALA	N-CA-C	5.64	118.25	110.35
1	a8	193	ASN	CA-CB-CG	-5.64	106.96	112.60
1	aa	63	GLN	N-CA-C	5.64	117.24	111.14
1	an	7	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	ax	189	LEU	CA-C-N	5.64	127.84	120.28
1	ax	189	LEU	C-N-CA	5.64	127.84	120.28
1	aD	106	GLY	CA-C-O	5.64	125.38	119.06
1	aW	108	THR	CB-CA-C	-5.64	101.88	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	135	ILE	O-C-N	5.64	127.34	121.87
1	bh	23	TRP	CA-CB-CG	5.64	124.32	113.60
1	17	8	GLY	O-C-N	-5.64	117.83	124.15
1	br	125	PRO	N-CA-CB	-5.64	98.61	102.73
1	by	10	MET	CG-SD-CE	-5.64	88.48	100.90
1	bO	98	GLU	CA-C-O	5.64	124.78	119.76
1	bP	230	VAL	O-C-N	-5.64	115.51	122.57
1	bS	29	GLU	CA-C-N	-5.64	113.59	122.79
1	bS	29	GLU	C-N-CA	-5.64	113.59	122.79
1	bT	75	GLU	CA-C-O	5.64	126.46	119.97
1	c2	168	PHE	CA-C-O	-5.64	114.86	121.07
1	c6	11	VAL	CA-C-N	5.64	129.49	121.42
1	c6	11	VAL	C-N-CA	5.64	129.49	121.42
1	cr	155	GLN	O-C-N	-5.64	116.44	123.04
1	cG	191	VAL	O-C-N	-5.64	116.40	121.87
1	cR	131	LYS	O-C-N	-5.64	115.62	122.22
1	1h	167	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	cY	78	ALA	N-CA-C	5.64	117.51	111.36
1	dt	126	VAL	N-CA-C	5.64	121.08	109.34
1	dB	120	HIS	O-C-N	-5.64	116.15	122.75
1	dD	185	MET	CG-SD-CE	-5.64	88.48	100.90
1	dH	197	ASP	CA-C-N	5.64	128.16	120.54
1	dH	197	ASP	C-N-CA	5.64	128.16	120.54
1	1m	165	VAL	N-CA-CB	5.64	117.15	110.55
1	dO	182	LYS	O-C-N	-5.64	115.62	122.22
1	e3	40	PHE	O-C-N	-5.64	116.26	122.07
1	e8	155	GLN	OE1-CD-NE2	5.64	128.25	122.60
1	1q	212	GLU	CA-C-O	-5.64	114.57	120.55
1	en	197	ASP	CA-C-N	5.64	127.84	120.28
1	en	197	ASP	C-N-CA	5.64	127.84	120.28
1	eT	136	LEU	N-CA-CB	5.64	118.42	110.12
1	f2	165	VAL	N-CA-C	5.64	116.29	110.36
1	f3	229	ARG	NH1-CZ-NH2	-5.64	111.96	119.30
1	f5	120	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	f8	5	ASN	CA-C-O	-5.64	114.25	120.69
1	f8	101	GLY	CA-C-O	5.64	126.51	120.30
1	fe	147	PRO	CA-C-N	5.64	128.85	120.95
1	fe	147	PRO	C-N-CA	5.64	128.85	120.95
1	ff	67	GLN	CG-CD-NE2	5.64	124.87	116.40
1	fl	161	PHE	N-CA-C	5.64	117.88	111.11
1	fm	201	ILE	CB-CA-C	-5.64	104.43	112.22
1	fJ	107	THR	CA-C-O	-5.64	114.89	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fQ	227	LYS	CA-C-N	5.64	132.08	122.37
1	fQ	227	LYS	C-N-CA	5.64	132.08	122.37
1	g4	222	GLY	O-C-N	-5.64	115.36	122.70
1	f	228	ALA	N-CA-C	5.64	118.03	110.35
1	1	23	TRP	CB-CG-CD1	-5.64	118.43	126.90
1	s	129	ILE	N-CA-CB	-5.64	102.86	110.54
1	z	12	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	P	7	GLN	CA-C-N	5.64	131.98	120.80
1	P	7	GLN	C-N-CA	5.64	131.98	120.80
1	6	143	ARG	N-CA-C	5.64	117.43	111.28
1	gq	215	MET	N-CA-C	-5.64	106.44	113.38
1	1F	182	LYS	O-C-N	5.64	127.96	122.09
1	gP	32	PHE	CA-C-O	5.64	126.26	119.43
1	gX	48	THR	CA-CB-OG1	5.64	118.06	109.60
1	h0	80	TRP	CB-CG-CD1	-5.64	118.44	126.90
1	h2	230	VAL	O-C-N	-5.64	116.92	122.67
1	h7	150	ILE	CA-C-O	-5.64	115.19	121.17
1	hh	92	GLU	CA-C-N	5.64	125.65	119.89
1	hh	92	GLU	C-N-CA	5.64	125.65	119.89
1	hj	140	LYS	N-CA-CB	5.64	118.41	110.12
1	1J	10	MET	O-C-N	-5.64	115.60	122.82
1	hR	10	MET	CA-C-O	5.64	127.53	121.55
1	1M	98	GLU	CA-C-O	-5.64	114.74	119.76
1	hZ	70	LYS	CA-C-N	5.64	128.30	120.29
1	hZ	70	LYS	C-N-CA	5.64	128.30	120.29
1	ia	141	ILE	O-C-N	-5.64	115.42	121.80
1	ic	224	PRO	CA-N-CD	5.64	119.90	112.00
1	ip	181	VAL	O-C-N	-5.64	116.02	121.83
1	iC	112	GLN	N-CA-C	5.64	117.11	111.07
1	iJ	188	THR	O-C-N	-5.64	115.35	121.95
1	iR	16	SER	CA-C-N	5.64	126.89	119.84
1	iR	16	SER	C-N-CA	5.64	126.89	119.84
1	iV	5	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	iY	210	THR	CA-CB-OG1	5.64	118.06	109.60
1	jh	153	ILE	O-C-N	-5.64	116.95	122.99
1	jl	23	TRP	CA-C-O	-5.64	114.89	120.82
1	1W	26	VAL	CA-C-O	5.64	126.92	121.05
1	jG	111	LEU	O-C-N	-5.64	116.04	122.08
1	jM	147	PRO	CA-C-O	-5.64	115.02	121.56
1	jY	29	GLU	N-CA-C	5.64	117.88	109.59
1	jZ	202	LEU	N-CA-C	5.64	117.43	111.28
1	k3	216	THR	O-C-N	5.64	128.18	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	140	LYS	N-CA-C	5.64	117.43	111.28
1	kg	97	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	21	47	ALA	N-CA-C	5.64	118.20	110.24
1	lh	10	MET	N-CA-C	5.64	118.54	110.24
1	li	53	ASN	CA-C-N	5.64	127.84	120.28
1	li	53	ASN	C-N-CA	5.64	127.84	120.28
1	lj	191	VAL	O-C-N	-5.64	116.02	121.83
1	lw	191	VAL	CA-C-N	5.64	128.11	120.38
1	lw	191	VAL	C-N-CA	5.64	128.11	120.38
1	29	125	PRO	N-CA-CB	-5.64	98.05	102.28
1	lH	201	ILE	CA-C-O	5.64	126.83	120.85
1	2a	163	ASP	CA-CB-CG	-5.64	106.96	112.60
1	2F	191	VAL	CA-C-N	5.64	127.84	120.28
1	2F	191	VAL	C-N-CA	5.64	127.84	120.28
1	2I	101	GLY	N-CA-C	5.64	119.71	112.83
1	2I	138	LEU	CA-C-N	5.64	127.84	120.28
1	2I	138	LEU	C-N-CA	5.64	127.84	120.28
1	2L	200	THR	O-C-N	-5.64	115.62	122.22
1	2T	23	TRP	N-CA-C	5.64	118.16	111.33
1	3a	38	PRO	O-C-N	-5.64	115.02	122.64
1	3l	96	MET	N-CA-C	5.64	118.02	110.35
1	3l	192	GLN	N-CA-C	5.64	117.51	111.36
1	3F	4	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	3W	4	GLN	O-C-N	-5.64	115.41	122.35
1	4i	134	ILE	N-CA-C	5.64	115.84	110.42
1	4m	64	ALA	CA-C-O	5.64	126.46	119.97
1	4q	78	ALA	CA-C-N	5.64	127.84	120.28
1	4q	78	ALA	C-N-CA	5.64	127.84	120.28
1	4B	33	SER	O-C-N	-5.64	116.10	121.57
1	4D	164	TYR	CB-CG-CD1	-5.64	112.33	120.80
1	4I	171	THR	CA-C-N	5.64	128.30	120.29
1	4I	171	THR	C-N-CA	5.64	128.30	120.29
1	4J	65	ALA	CA-C-N	5.64	127.84	120.28
1	4J	65	ALA	C-N-CA	5.64	127.84	120.28
1	4N	85	PRO	O-C-N	5.64	130.26	122.64
1	5c	21	ASN	N-CA-CB	5.64	119.76	110.39
1	5h	176	GLN	N-CA-C	5.64	119.36	111.74
1	5p	50	GLN	CA-C-O	-5.64	114.57	120.55
1	5x	66	MET	N-CA-C	5.64	117.11	111.07
1	5A	79	GLU	N-CA-C	5.64	117.43	111.28
1	5B	192	GLN	O-C-N	5.64	127.88	122.07
1	5C	45	GLU	CB-CA-C	5.64	118.92	109.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5K	50	GLN	N-CA-CB	-5.64	101.53	110.22
1	5K	206	GLY	CA-C-N	5.64	126.89	119.84
1	5K	206	GLY	C-N-CA	5.64	126.89	119.84
1	5R	21	ASN	CB-CG-ND2	5.64	124.86	116.40
1	5V	179	GLN	CA-C-O	-5.64	114.57	120.55
1	67	68	MET	CA-C-O	5.64	126.74	120.82
1	69	110	THR	N-CA-C	-5.64	101.67	110.42
1	6o	156	GLY	CA-C-N	5.64	125.17	119.19
1	6o	156	GLY	C-N-CA	5.64	125.17	119.19
1	6s	154	ARG	CD-NE-CZ	5.64	132.30	124.40
1	6w	170	LYS	N-CA-C	5.64	118.20	111.71
1	73	187	GLU	N-CA-C	5.64	118.36	111.82
1	74	214	MET	CG-SD-CE	-5.64	88.49	100.90
1	79	43	LEU	N-CA-C	5.64	117.43	111.28
1	7a	202	LEU	N-CA-C	5.64	117.51	111.36
1	7g	113	GLU	N-CA-C	5.64	117.23	111.14
1	7o	181	VAL	N-CA-CB	5.64	117.15	110.55
1	7T	156	GLY	O-C-N	-5.64	116.13	121.77
1	7X	88	ALA	N-CA-C	5.64	117.11	111.07
1	84	180	GLU	CA-C-N	5.64	128.19	120.46
1	84	180	GLU	C-N-CA	5.64	128.19	120.46
1	88	135	ILE	N-CA-C	5.64	116.38	110.62
1	8e	110	THR	N-CA-C	-5.64	102.17	110.52
1	8t	213	GLU	CA-C-N	5.64	128.11	120.44
1	8t	213	GLU	C-N-CA	5.64	128.11	120.44
1	8v	38	PRO	CB-CA-C	-5.64	103.87	112.11
1	8v	117	TRP	CD2-CE2-CZ2	-5.64	116.76	122.40
1	8C	187	GLU	N-CA-C	-5.64	104.00	111.96
1	8L	210	THR	CA-C-N	5.64	128.89	120.31
1	8L	210	THR	C-N-CA	5.64	128.89	120.31
1	9h	229	ARG	CA-C-N	5.64	131.10	122.69
1	9h	229	ARG	C-N-CA	5.64	131.10	122.69
1	9i	153	ILE	N-CA-C	5.64	117.75	109.63
1	9i	155	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	9j	111	LEU	CA-C-O	5.64	126.53	120.55
1	9n	73	ILE	N-CA-CB	5.64	118.21	110.54
1	9r	101	GLY	O-C-N	-5.64	116.77	122.19
1	9r	211	LEU	CA-C-O	5.64	126.48	120.10
1	a6	96	MET	CG-SD-CE	-5.64	88.48	100.90
1	a7	3	VAL	CA-C-N	5.64	128.10	120.65
1	a7	3	VAL	C-N-CA	5.64	128.10	120.65
1	a8	113	GLU	CA-C-N	5.64	127.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a8	113	GLU	C-N-CA	5.64	127.84	120.28
1	ac	111	LEU	N-CA-C	5.64	118.97	111.75
1	aE	50	GLN	N-CA-C	5.64	118.36	111.82
1	aE	161	PHE	CA-C-O	-5.64	113.48	119.97
1	aK	37	ILE	CA-C-O	-5.64	114.91	118.69
1	aK	66	MET	CG-SD-CE	-5.64	88.48	100.90
1	aP	27	VAL	CA-C-O	5.64	126.83	120.85
1	b8	79	GLU	N-CA-C	-5.64	105.13	111.28
1	bf	215	MET	CA-C-N	5.64	127.84	120.28
1	bf	215	MET	C-N-CA	5.64	127.84	120.28
1	bo	173	ARG	CB-CA-C	-5.64	100.19	110.63
1	bC	70	LYS	O-C-N	-5.64	115.72	122.15
1	bI	226	HIS	CG-CD2-NE2	5.64	112.84	107.20
1	bJ	65	ALA	CA-C-O	5.64	126.75	120.82
1	bL	166	ASP	CB-CA-C	5.64	120.16	110.79
1	bY	11	VAL	CB-CA-C	-5.64	102.72	110.96
1	c7	37	ILE	N-CA-C	5.64	119.12	112.35
1	cd	86	VAL	CB-CA-C	5.64	120.55	111.29
1	1f	138	LEU	CA-C-N	5.64	127.84	120.28
1	1f	138	LEU	C-N-CA	5.64	127.84	120.28
1	cG	2	ILE	CB-CA-C	5.64	118.51	110.84
1	1g	63	GLN	N-CA-C	5.64	117.11	111.07
1	cK	29	GLU	N-CA-CB	-5.64	102.24	110.53
1	cN	124	ILE	O-C-N	-5.64	116.66	121.57
1	1i	191	VAL	N-CA-CB	-5.64	102.86	110.54
1	d4	36	VAL	CA-C-N	5.64	125.85	120.43
1	d4	36	VAL	C-N-CA	5.64	125.85	120.43
1	dj	12	HIS	CA-C-N	-5.64	113.33	122.81
1	dj	12	HIS	C-N-CA	-5.64	113.33	122.81
1	dm	9	GLN	CA-C-O	5.64	125.87	119.27
1	dm	122	PRO	CA-C-N	5.64	125.55	119.85
1	dm	122	PRO	C-N-CA	5.64	125.55	119.85
1	dw	210	THR	N-CA-CB	5.64	118.30	110.17
1	dB	65	ALA	CA-C-O	-5.64	114.44	120.42
1	dC	41	SER	CA-C-N	5.64	128.11	120.44
1	dC	41	SER	C-N-CA	5.64	128.11	120.44
1	dJ	208	ALA	CA-C-O	5.64	124.73	118.52
1	dZ	185	MET	CA-C-O	5.64	126.53	120.55
1	e0	67	GLN	CA-C-N	5.64	128.12	120.44
1	e0	67	GLN	C-N-CA	5.64	128.12	120.44
1	ee	62	HIS	CB-CG-ND1	-5.64	114.24	122.70
1	ej	175	GLU	O-C-N	-5.64	116.61	123.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	el	114	GLN	CA-C-N	5.64	129.39	120.47
1	el	114	GLN	C-N-CA	5.64	129.39	120.47
1	1r	114	GLN	N-CA-C	5.64	117.88	111.11
1	eS	62	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	f2	1	PRO	CA-N-CD	-5.64	104.10	112.00
1	1w	92	GLU	CA-C-N	5.64	125.66	119.90
1	1w	92	GLU	C-N-CA	5.64	125.66	119.90
1	fp	36	VAL	O-C-N	5.64	127.64	121.83
1	fz	42	ALA	O-C-N	-5.64	116.14	122.12
1	1y	122	PRO	N-CA-CB	5.64	108.81	102.60
1	1y	182	LYS	CA-C-O	5.64	126.40	120.42
1	fG	84	HIS	CA-C-N	5.64	125.96	119.92
1	fG	84	HIS	C-N-CA	5.64	125.96	119.92
1	fS	195	ASN	CA-CB-CG	5.64	118.24	112.60
1	g7	89	GLY	CA-C-N	5.64	125.65	119.89
1	g7	89	GLY	C-N-CA	5.64	125.65	119.89
1	c	209	ALA	O-C-N	-5.64	116.71	123.31
1	q	72	THR	N-CA-CB	5.64	118.19	110.01
1	2	199	LYS	CA-C-N	5.64	127.84	120.28
1	2	199	LYS	C-N-CA	5.64	127.84	120.28
1	H	50	GLN	N-CA-C	5.64	118.16	111.33
1	T	77	ALA	N-CA-C	5.64	117.11	111.07
1	U	106	GLY	O-C-N	-5.64	115.85	122.45
1	9	57	ASN	N-CA-C	5.64	118.20	111.71
1	gq	51	ASP	CA-C-N	5.64	127.84	120.28
1	gq	51	ASP	C-N-CA	5.64	127.84	120.28
1	gA	82	ARG	N-CA-C	5.64	117.51	111.36
1	gD	176	GLN	CA-C-N	5.64	129.36	121.24
1	gD	176	GLN	C-N-CA	5.64	129.36	121.24
1	h0	42	ALA	CA-C-O	-5.64	114.44	120.42
1	ht	198	CYS	N-CA-CB	5.64	118.41	110.12
1	hD	20	LEU	CA-C-N	5.64	128.11	120.38
1	hD	20	LEU	C-N-CA	5.64	128.11	120.38
1	hJ	72	THR	N-CA-C	5.64	117.43	111.28
1	hP	75	GLU	N-CA-C	5.64	117.11	111.07
1	1M	98	GLU	CA-CB-CG	5.64	125.38	114.10
1	hW	60	GLY	CA-C-N	5.64	128.78	122.69
1	hW	60	GLY	C-N-CA	5.64	128.78	122.69
1	i8	216	THR	N-CA-CB	5.64	119.59	110.40
1	iK	33	SER	N-CA-C	-5.64	103.14	108.22
1	iL	82	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	1W	130	TYR	CA-C-O	-5.64	114.89	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	103	ASP	CA-CB-CG	5.64	118.24	112.60
1	k4	155	GLN	N-CA-C	5.64	118.66	110.42
1	ke	35	GLU	O-C-N	-5.64	115.77	122.20
1	kl	124	ILE	CA-CB-CG1	-5.64	100.81	110.40
1	kC	92	GLU	N-CA-C	5.64	116.80	109.64
1	l6	132	ARG	O-C-N	-5.64	116.26	122.07
1	lb	112	GLN	N-CA-C	5.64	117.88	111.11
1	ly	80	TRP	N-CA-C	5.64	117.43	111.28
1	lB	212	GLU	N-CA-C	5.64	117.88	111.11
1	29	140	LYS	CA-C-O	-5.64	114.44	120.42
1	2b	164	TYR	N-CA-C	5.64	117.11	111.07
1	2F	154	ARG	O-C-N	-5.64	116.39	123.27
1	2M	121	ASN	CB-CG-ND2	5.64	124.86	116.40
1	3c	13	GLN	OE1-CD-NE2	5.64	128.24	122.60
1	40	197	ASP	N-CA-CB	-5.64	101.60	110.46
1	45	164	TYR	CA-C-O	-5.64	114.86	120.90
1	4E	223	GLY	CA-C-O	-5.64	113.45	121.52
1	50	170	LYS	CA-C-O	5.64	126.31	119.31
1	59	88	ALA	O-C-N	-5.64	116.89	123.27
1	5q	191	VAL	N-CA-CB	-5.64	103.95	110.55
1	61	70	LYS	CA-C-O	5.64	126.94	120.90
1	61	177	ALA	N-CA-C	5.64	118.25	110.35
1	6j	111	LEU	N-CA-C	5.64	117.43	111.28
1	6q	169	TYR	CA-CB-CG	-5.64	103.75	113.90
1	7z	105	ALA	N-CA-C	5.64	119.86	113.15
1	7B	195	ASN	N-CA-C	5.64	117.86	110.08
1	8P	153	ILE	O-C-N	-5.64	116.56	122.20
1	8V	28	GLU	O-C-N	5.64	128.18	122.09
1	9q	162	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	9s	64	ALA	N-CA-C	-5.64	104.61	112.45
1	9u	197	ASP	CA-C-O	5.64	126.31	119.31
1	9y	13	GLN	O-C-N	-5.64	116.39	123.27
1	9W	12	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	ao	89	GLY	CA-C-N	5.64	125.65	119.90
1	ao	89	GLY	C-N-CA	5.64	125.65	119.90
1	aT	197	ASP	CA-C-N	5.64	128.30	120.29
1	aT	197	ASP	C-N-CA	5.64	128.30	120.29
1	b8	27	VAL	CA-C-O	-5.64	115.19	121.17
1	bg	226	HIS	N-CA-C	5.64	118.50	110.10
1	br	27	VAL	CA-C-O	-5.64	114.87	120.85
1	1a	159	GLU	N-CA-C	5.64	117.60	109.48
1	bO	201	ILE	O-C-N	-5.64	116.40	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c0	178	SER	CA-C-N	5.64	127.84	120.28
1	c0	178	SER	C-N-CA	5.64	127.84	120.28
1	c6	187	GLU	CB-CA-C	-5.64	102.02	110.88
1	cc	48	THR	CA-C-N	5.64	126.89	119.84
1	cc	48	THR	C-N-CA	5.64	126.89	119.84
1	1f	225	GLY	CA-C-N	5.64	130.18	122.34
1	1f	225	GLY	C-N-CA	5.64	130.18	122.34
1	1i	63	GLN	CB-CG-CD	-5.64	103.01	112.60
1	d4	12	HIS	O-C-N	-5.64	116.01	122.89
1	dv	128	GLU	CA-C-N	5.64	127.88	120.60
1	dv	128	GLU	C-N-CA	5.64	127.88	120.60
1	dx	52	LEU	CA-C-N	5.64	127.84	120.28
1	dx	52	LEU	C-N-CA	5.64	127.84	120.28
1	dX	131	LYS	CA-C-N	5.64	127.84	120.28
1	dX	131	LYS	C-N-CA	5.64	127.84	120.28
1	e6	162	ARG	N-CA-C	5.64	118.16	111.33
1	ef	140	LYS	CA-C-O	-5.64	114.57	120.55
1	eI	182	LYS	CA-C-N	5.64	128.40	120.28
1	eI	182	LYS	C-N-CA	5.64	128.40	120.28
1	1t	66	MET	O-C-N	-5.64	116.26	122.07
1	eS	152	ASP	O-C-N	-5.64	115.32	122.26
1	f2	154	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	f9	180	GLU	O-C-N	-5.64	116.14	122.12
1	1v	77	ALA	N-CA-C	5.64	117.11	111.07
1	fc	140	LYS	CA-C-N	5.64	127.67	120.56
1	fc	140	LYS	C-N-CA	5.64	127.67	120.56
1	fn	55	MET	CA-C-O	5.64	127.28	121.07
1	fy	46	GLY	CA-C-N	5.64	130.36	121.56
1	fy	46	GLY	C-N-CA	5.64	130.36	121.56
1	fD	229	ARG	O-C-N	5.64	128.82	122.22
1	fJ	164	TYR	N-CA-C	5.64	117.43	111.28
1	fP	74	ASN	CA-CB-CG	5.64	118.24	112.60
1	A	32	PHE	N-CA-C	-5.64	106.29	112.72
1	9	108	THR	N-CA-CB	-5.64	101.89	110.92
1	go	113	GLU	N-CA-C	5.64	117.10	111.07
1	gN	165	VAL	O-C-N	-5.64	116.40	121.87
1	gQ	92	GLU	CA-C-N	5.64	125.55	119.85
1	gQ	92	GLU	C-N-CA	5.64	125.55	119.85
1	gV	119	THR	N-CA-C	-5.64	106.44	113.38
1	h5	190	LEU	O-C-N	-5.64	116.14	122.12
1	hc	27	VAL	CA-C-N	5.64	128.11	120.44
1	hc	27	VAL	C-N-CA	5.64	128.11	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	146	SER	O-C-N	-5.64	116.31	122.06
1	hp	94	GLY	CA-C-O	5.64	127.69	120.36
1	hA	98	GLU	CA-C-O	-5.64	112.44	120.16
1	hB	139	ASN	CA-C-O	-5.64	114.44	120.42
1	hF	221	VAL	O-C-N	-5.64	116.57	123.00
1	hG	53	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	hI	120	HIS	CA-C-O	-5.64	115.33	121.87
1	hK	154	ARG	NE-CZ-NH1	5.64	127.14	121.50
1	hM	146	SER	O-C-N	5.64	126.01	120.71
1	hU	84	HIS	CA-C-N	-5.64	112.79	119.84
1	hU	84	HIS	C-N-CA	-5.64	112.79	119.84
1	1N	74	ASN	OD1-CG-ND2	5.64	128.24	122.60
1	i9	179	GLN	CA-C-O	-5.64	114.57	120.55
1	id	216	THR	N-CA-C	-5.64	105.98	112.92
1	ih	118	MET	N-CA-C	5.64	117.51	111.36
1	ij	7	GLN	CA-C-O	5.64	126.45	119.97
1	ir	74	ASN	CA-C-N	5.64	127.77	120.44
1	ir	74	ASN	C-N-CA	5.64	127.77	120.44
1	it	4	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	it	81	ASP	CA-CB-CG	5.64	118.24	112.60
1	iu	51	ASP	N-CA-CB	5.64	118.41	110.12
1	iE	129	ILE	O-C-N	-5.64	116.40	121.87
1	iM	107	THR	CA-C-N	5.64	131.23	122.49
1	iM	107	THR	C-N-CA	5.64	131.23	122.49
1	iM	128	GLU	CB-CG-CD	5.64	122.19	112.60
1	iS	31	ALA	N-CA-C	5.64	122.81	110.80
1	j1	15	ILE	N-CA-C	5.64	116.85	109.58
1	j2	167	ARG	NH1-CZ-NH2	5.64	126.63	119.30
1	j7	19	THR	CB-CA-C	-5.64	102.03	110.88
1	jh	161	PHE	CA-C-N	5.64	127.84	120.28
1	jh	161	PHE	C-N-CA	5.64	127.84	120.28
1	jo	165	VAL	O-C-N	-5.64	116.40	121.87
1	jv	216	THR	CA-CB-CG2	5.64	120.09	110.50
1	jE	126	VAL	CA-C-N	5.64	126.20	119.94
1	jE	126	VAL	C-N-CA	5.64	126.20	119.94
1	jI	123	PRO	N-CA-C	5.64	124.09	112.47
1	jX	159	GLU	N-CA-C	5.64	117.60	109.48
1	jZ	96	MET	N-CA-C	5.64	122.81	110.80
1	jZ	218	CYS	N-CA-CB	5.64	120.02	110.49
1	k0	152	ASP	CA-C-O	5.64	126.16	119.56
1	ko	196	PRO	O-C-N	-5.64	115.03	122.64
1	ku	196	PRO	N-CA-C	5.64	124.09	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kH	214	MET	CB-CA-C	5.64	121.06	110.63
1	24	62	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	kP	46	GLY	CA-C-N	5.64	129.11	120.82
1	kP	46	GLY	C-N-CA	5.64	129.11	120.82
1	kQ	37	ILE	O-C-N	-5.64	116.81	120.42
1	kR	215	MET	N-CA-C	5.64	119.42	112.54
1	l2	95	GLN	N-CA-C	-5.64	103.92	111.87
1	la	3	VAL	O-C-N	-5.64	116.48	122.06
1	lm	100	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	lJ	42	ALA	CA-C-N	5.64	128.30	120.29
1	lJ	42	ALA	C-N-CA	5.64	128.30	120.29
1	2b	229	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	2m	188	THR	O-C-N	-5.64	115.09	122.59
1	2p	95	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	2x	4	GLN	N-CA-CB	5.64	120.02	110.49
1	2H	108	THR	CA-CB-OG1	5.64	118.06	109.60
1	2J	145	TYR	O-C-N	5.64	130.19	122.46
1	3c	227	LYS	N-CA-CB	5.64	120.47	111.56
1	3q	102	SER	N-CA-C	5.64	117.88	111.11
1	3E	101	GLY	N-CA-C	5.64	119.71	112.83
1	3J	120	HIS	CA-CB-CG	5.64	119.44	113.80
1	3W	211	LEU	N-CA-C	5.64	118.15	111.33
1	3Y	37	ILE	CB-CA-C	-5.64	106.61	114.00
1	45	80	TRP	CA-C-N	5.64	127.77	120.44
1	45	80	TRP	C-N-CA	5.64	127.77	120.44
1	4f	99	PRO	CA-C-O	-5.64	115.17	121.32
1	4y	33	SER	CA-C-N	5.64	125.75	119.32
1	4y	33	SER	C-N-CA	5.64	125.75	119.32
1	4D	204	ALA	N-CA-C	5.64	117.51	111.36
1	50	152	ASP	N-CA-C	5.64	117.43	111.28
1	59	73	ILE	O-C-N	-5.64	116.40	121.87
1	5a	24	VAL	O-C-N	5.64	127.34	121.87
1	5q	142	VAL	O-C-N	-5.64	116.40	121.87
1	5v	99	PRO	O-C-N	-5.64	116.53	123.01
1	5w	115	ILE	O-C-N	-5.64	116.02	121.83
1	5A	45	GLU	O-C-N	-5.64	115.93	122.87
1	5C	12	HIS	CA-CB-CG	-5.64	108.16	113.80
1	6a	221	VAL	N-CA-C	5.64	116.35	109.30
1	6c	12	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	6K	13	GLN	N-CA-C	-5.64	100.70	109.72
1	6Y	132	ARG	CA-C-N	5.64	127.84	120.28
1	6Y	132	ARG	C-N-CA	5.64	127.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	35	GLU	CA-C-N	5.64	130.47	121.34
1	6Z	35	GLU	C-N-CA	5.64	130.47	121.34
1	7i	142	VAL	N-CA-CB	5.64	118.21	110.54
1	7n	75	GLU	CA-C-N	5.64	127.84	120.28
1	7n	75	GLU	C-N-CA	5.64	127.84	120.28
1	7o	13	GLN	OE1-CD-NE2	5.64	128.24	122.60
1	7p	35	GLU	CA-C-N	5.64	129.55	120.30
1	7p	35	GLU	C-N-CA	5.64	129.55	120.30
1	84	33	SER	CA-C-N	5.64	125.25	119.56
1	84	33	SER	C-N-CA	5.64	125.25	119.56
1	8k	135	ILE	CA-C-N	5.64	127.77	120.44
1	8k	135	ILE	C-N-CA	5.64	127.77	120.44
1	8T	37	ILE	CB-CA-C	5.64	121.62	111.36
1	98	43	LEU	N-CA-C	5.64	118.15	111.33
1	9e	9	GLN	CA-C-N	5.64	129.11	120.82
1	9e	9	GLN	C-N-CA	5.64	129.11	120.82
1	9i	141	ILE	CA-C-N	5.64	128.48	120.53
1	9i	141	ILE	C-N-CA	5.64	128.48	120.53
1	9k	162	ARG	CA-C-O	-5.64	114.57	120.55
1	9r	91	ILE	O-C-N	-5.64	116.02	121.83
1	9F	215	MET	N-CA-CB	-5.64	102.40	110.80
1	9H	143	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	9J	36	VAL	N-CA-C	-5.64	107.25	112.83
1	9V	27	VAL	CA-CB-CG1	5.64	119.99	110.40
1	9Y	103	ASP	CA-C-N	5.64	127.67	120.56
1	9Y	103	ASP	C-N-CA	5.64	127.67	120.56
1	9Z	57	ASN	CA-C-N	5.64	128.88	120.31
1	9Z	57	ASN	C-N-CA	5.64	128.88	120.31
1	a2	89	GLY	CA-C-N	5.64	126.89	119.84
1	a2	89	GLY	C-N-CA	5.64	126.89	119.84
1	ad	213	GLU	N-CA-C	5.64	117.43	111.28
1	12	143	ARG	O-C-N	-5.64	116.14	122.12
1	aA	166	ASP	O-C-N	-5.64	116.26	122.07
1	aJ	54	THR	O-C-N	-5.64	116.26	122.07
1	b9	146	SER	CA-C-N	5.64	126.89	119.84
1	b9	146	SER	C-N-CA	5.64	126.89	119.84
1	bi	14	ALA	N-CA-C	5.64	117.88	109.59
1	bj	195	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	bl	169	TYR	N-CA-CB	5.64	118.19	110.01
1	bo	155	GLN	CA-C-O	5.64	126.91	120.54
1	bu	28	GLU	N-CA-C	5.64	117.23	111.14
1	bx	76	GLU	CA-C-N	5.64	127.84	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	76	GLU	C-N-CA	5.64	127.84	120.28
1	bD	35	GLU	CA-C-N	5.64	128.48	120.53
1	bD	35	GLU	C-N-CA	5.64	128.48	120.53
1	bP	15	ILE	CA-C-O	5.64	127.83	120.78
1	1b	162	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	c1	36	VAL	CA-CB-CG2	-5.64	100.81	110.40
1	c1	176	GLN	CA-C-O	5.64	127.48	121.11
1	c5	183	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	cn	172	LEU	N-CA-C	-5.64	105.90	112.89
1	co	112	GLN	CA-C-N	5.64	128.11	120.44
1	co	112	GLN	C-N-CA	5.64	128.11	120.44
1	1e	89	GLY	CA-C-N	5.64	125.64	119.89
1	1e	89	GLY	C-N-CA	5.64	125.64	119.89
1	cw	8	GLY	N-CA-C	5.64	119.94	111.42
1	cC	32	PHE	CA-C-N	5.64	129.23	120.60
1	cC	32	PHE	C-N-CA	5.64	129.23	120.60
1	cO	186	THR	CA-CB-OG1	5.64	118.06	109.60
1	cS	140	LYS	N-CA-C	5.64	117.43	111.28
1	cU	229	ARG	NE-CZ-NH2	5.64	124.28	119.20
1	d7	103	ASP	CA-C-N	5.64	127.67	120.56
1	d7	103	ASP	C-N-CA	5.64	127.67	120.56
1	dg	75	GLU	CA-C-N	5.64	127.77	120.44
1	dg	75	GLU	C-N-CA	5.64	127.77	120.44
1	dk	178	SER	N-CA-C	5.64	122.81	110.80
1	ds	177	ALA	CA-C-N	5.64	132.31	121.54
1	ds	177	ALA	C-N-CA	5.64	132.31	121.54
1	dC	156	GLY	O-C-N	-5.64	117.34	122.42
1	dJ	82	ARG	NE-CZ-NH2	-5.64	114.12	119.20
1	1n	194	ALA	N-CA-C	5.64	118.41	110.23
1	e8	37	ILE	CA-C-O	-5.64	114.91	118.69
1	ec	65	ALA	CA-C-N	5.64	130.27	120.68
1	ec	65	ALA	C-N-CA	5.64	130.27	120.68
1	ed	66	MET	N-CA-C	5.64	117.11	111.07
1	eK	42	ALA	N-CA-C	5.64	117.88	111.11
1	eN	207	PRO	N-CA-C	5.64	121.99	113.81
1	eZ	195	ASN	CA-CB-CG	5.64	118.24	112.60
1	f6	47	ALA	N-CA-CB	-5.64	101.32	109.83
1	fn	221	VAL	CB-CA-C	-5.64	102.79	111.08
1	fq	53	ASN	N-CA-C	5.64	117.43	111.28
1	ft	164	TYR	N-CA-C	5.64	118.15	111.33
1	fJ	68	MET	CA-C-N	5.64	128.15	120.54
1	fJ	68	MET	C-N-CA	5.64	128.15	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	143	ARG	CA-C-O	-5.64	114.90	120.82
1	z	82	ARG	N-CA-C	5.64	117.43	111.28
1	C	171	THR	N-CA-C	5.64	118.36	111.82
1	N	190	LEU	CA-C-O	5.64	126.72	120.63
1	Q	72	THR	N-CA-C	5.64	117.11	111.07
1	5	50	GLN	N-CA-C	5.64	117.11	111.07
1	hu	146	SER	O-C-N	5.64	125.50	120.48
1	hJ	172	LEU	O-C-N	-5.64	115.42	122.24
1	hQ	105	ALA	CA-C-O	5.64	126.33	119.11
1	hS	107	THR	N-CA-C	-5.64	106.39	113.72
1	iF	118	MET	O-C-N	5.64	130.42	122.41
1	jC	198	CYS	N-CA-C	-5.64	105.51	112.90
1	jL	12	HIS	CA-C-O	5.64	127.36	121.38
1	jV	163	ASP	CA-CB-CG	-5.64	106.96	112.60
1	24	39	MET	CA-C-N	5.64	127.77	120.44
1	24	39	MET	C-N-CA	5.64	127.77	120.44
1	kU	127	GLY	CA-C-N	5.64	127.83	120.28
1	kU	127	GLY	C-N-CA	5.64	127.83	120.28
1	26	148	THR	CA-CB-OG1	5.64	118.06	109.60
1	lo	28	GLU	CA-C-O	5.64	126.74	120.82
1	lr	9	GLN	O-C-N	-5.64	115.56	123.11
1	lv	134	ILE	N-CA-CB	5.64	117.15	110.55
1	lO	204	ALA	CA-C-O	-5.64	114.44	120.42
1	lQ	21	ASN	O-C-N	-5.64	116.14	122.12
1	2y	200	THR	O-C-N	-5.64	116.26	122.07
1	2M	195	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	3H	163	ASP	O-C-N	-5.64	115.62	122.22
1	3Y	175	GLU	O-C-N	-5.64	115.16	122.77
1	49	208	ALA	CA-C-N	5.64	130.39	121.99
1	49	208	ALA	C-N-CA	5.64	130.39	121.99
1	4m	8	GLY	O-C-N	-5.64	116.84	122.82
1	4Y	16	SER	CA-C-O	-5.64	114.16	120.25
1	56	4	GLN	CA-C-N	5.64	127.83	120.28
1	56	4	GLN	C-N-CA	5.64	127.83	120.28
1	5h	141	ILE	O-C-N	-5.64	116.39	121.91
1	5j	33	SER	O-C-N	-5.64	114.84	121.32
1	5v	67	GLN	N-CA-C	5.64	117.43	111.28
1	5z	112	GLN	O-C-N	-5.64	116.26	122.07
1	5F	74	ASN	OD1-CG-ND2	5.64	128.24	122.60
1	5H	228	ALA	N-CA-CB	-5.64	101.83	110.12
1	6l	187	GLU	N-CA-C	5.64	117.23	111.14
1	75	55	MET	CA-C-N	5.64	128.11	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	75	55	MET	C-N-CA	5.64	128.11	120.44
1	7d	47	ALA	N-CA-C	5.64	118.41	110.23
1	7l	15	ILE	N-CA-C	5.64	118.69	109.78
1	7C	36	VAL	CA-C-N	5.64	125.84	120.43
1	7C	36	VAL	C-N-CA	5.64	125.84	120.43
1	7K	143	ARG	N-CA-C	5.64	117.23	111.14
1	7P	26	VAL	O-C-N	-5.64	116.40	121.87
1	7U	148	THR	CA-CB-OG1	5.64	118.06	109.60
1	8T	136	LEU	N-CA-C	-5.64	105.22	111.36
1	8V	150	ILE	CA-CB-CG2	-5.64	100.92	110.50
1	98	17	PRO	CA-C-N	5.64	127.77	120.44
1	98	17	PRO	C-N-CA	5.64	127.77	120.44
1	9a	80	TRP	CB-CG-CD2	5.64	134.69	126.80
1	9a	179	GLN	N-CA-C	5.64	118.19	111.71
1	9m	18	ARG	CA-CB-CG	5.64	125.38	114.10
1	9n	195	ASN	N-CA-C	5.64	116.08	109.60
1	ab	184	TRP	N-CA-C	5.64	117.10	111.07
1	ad	179	GLN	CG-CD-OE1	5.64	132.08	120.80
1	bj	66	MET	CA-C-N	5.64	127.77	120.44
1	bj	66	MET	C-N-CA	5.64	127.77	120.44
1	bI	14	ALA	O-C-N	-5.64	116.59	122.96
1	bI	154	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	1a	167	ARG	O-C-N	5.64	128.58	122.15
1	1b	60	GLY	CA-C-N	5.64	126.30	120.60
1	1b	60	GLY	C-N-CA	5.64	126.30	120.60
1	1b	209	ALA	N-CA-C	5.64	118.41	110.23
1	cn	142	VAL	N-CA-C	5.64	117.05	110.62
1	cQ	108	THR	CA-CB-CG2	-5.64	100.92	110.50
1	db	224	PRO	N-CA-C	5.64	120.06	111.15
1	de	91	ILE	CA-C-O	5.64	127.83	120.78
1	dq	102	SER	N-CA-C	5.64	119.26	112.38
1	1l	123	PRO	CA-C-O	-5.64	115.11	121.43
1	dM	179	GLN	O-C-N	-5.64	115.62	122.22
1	e7	121	ASN	CA-CB-CG	-5.64	106.96	112.60
1	es	178	SER	O-C-N	-5.64	115.94	122.87
1	ez	62	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	eH	25	LYS	O-C-N	-5.64	114.68	122.46
1	eL	117	TRP	N-CA-C	5.64	117.50	111.36
1	fc	163	ASP	O-C-N	-5.64	116.14	122.12
1	fw	150	ILE	O-C-N	5.64	127.84	122.20
1	d	120	HIS	N-CA-CB	-5.64	102.38	110.44
1	n	44	SER	CB-CA-C	-5.64	101.64	110.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	170	LYS	CB-CG-CD	5.64	124.27	111.30
1	G	25	LYS	CB-CA-C	-5.64	101.99	110.90
1	Q	173	ARG	O-C-N	5.64	128.10	122.12
1	8	184	TRP	N-CA-C	5.64	117.23	111.14
1	gb	200	THR	N-CA-C	5.64	117.88	111.11
1	gc	199	LYS	CA-C-N	5.64	127.83	120.28
1	gc	199	LYS	C-N-CA	5.64	127.83	120.28
1	gm	21	ASN	CA-C-N	5.64	127.83	120.28
1	gm	21	ASN	C-N-CA	5.64	127.83	120.28
1	gt	84	HIS	CG-CD2-NE2	5.64	112.84	107.20
1	gD	84	HIS	CA-CB-CG	5.64	119.44	113.80
1	1F	82	ARG	N-CA-C	5.64	117.42	111.28
1	1F	154	ARG	NH1-CZ-NH2	5.64	126.63	119.30
1	gQ	112	GLN	CA-C-O	5.64	126.93	120.90
1	gV	197	ASP	CA-CB-CG	5.64	118.24	112.60
1	gZ	132	ARG	CD-NE-CZ	5.64	132.29	124.40
1	h2	120	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	hc	23	TRP	CG-CD2-CE3	5.64	139.54	133.90
1	1I	198	CYS	N-CA-C	5.64	117.50	111.36
1	hg	103	ASP	CA-C-N	5.64	128.18	120.46
1	hg	103	ASP	C-N-CA	5.64	128.18	120.46
1	hi	179	GLN	N-CA-C	5.64	117.10	111.07
1	ho	180	GLU	CA-CB-CG	-5.64	102.83	114.10
1	hK	220	GLY	CA-C-N	5.64	130.18	123.19
1	hK	220	GLY	C-N-CA	5.64	130.18	123.19
1	hR	74	ASN	OD1-CG-ND2	-5.64	116.96	122.60
1	hU	131	LYS	O-C-N	-5.64	116.15	122.12
1	i3	25	LYS	N-CA-C	5.64	117.42	111.28
1	ig	128	GLU	N-CA-C	5.64	117.88	111.11
1	io	58	THR	CA-CB-OG1	5.64	118.06	109.60
1	iq	23	TRP	CA-CB-CG	5.64	124.31	113.60
1	1Q	138	LEU	N-CA-C	5.64	117.42	111.28
1	iA	124	ILE	CB-CA-C	5.64	117.26	110.78
1	iP	110	THR	CA-C-N	5.64	128.40	120.28
1	iP	110	THR	C-N-CA	5.64	128.40	120.28
1	iR	98	GLU	CA-C-O	-5.64	114.45	119.75
1	j6	20	LEU	CA-C-N	5.64	127.83	120.28
1	j6	20	LEU	C-N-CA	5.64	127.83	120.28
1	j8	139	ASN	O-C-N	-5.64	116.14	122.12
1	ja	200	THR	N-CA-C	-5.64	105.28	111.82
1	jk	85	PRO	N-CA-CB	-5.64	98.45	103.35
1	js	201	ILE	CA-C-N	5.64	128.10	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	js	201	ILE	C-N-CA	5.64	128.10	120.38
1	jC	50	GLN	CA-C-N	5.64	128.29	120.29
1	jC	50	GLN	C-N-CA	5.64	128.29	120.29
1	jD	144	MET	N-CA-C	5.64	117.10	111.07
1	jG	143	ARG	N-CA-CB	-5.64	101.54	110.28
1	jN	182	LYS	CA-C-N	5.64	128.29	120.29
1	jN	182	LYS	C-N-CA	5.64	128.29	120.29
1	jQ	122	PRO	CA-C-N	5.64	125.95	119.92
1	jQ	122	PRO	C-N-CA	5.64	125.95	119.92
1	k8	91	ILE	N-CA-CB	5.64	120.35	110.49
1	k8	162	ARG	CA-C-N	5.64	127.83	120.28
1	k8	162	ARG	C-N-CA	5.64	127.83	120.28
1	ki	103	ASP	N-CA-C	5.64	117.87	111.11
1	21	141	ILE	CB-CA-C	-5.64	104.64	112.02
1	ko	120	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	22	73	ILE	CA-CB-CG2	-5.64	100.92	110.50
1	kz	218	CYS	N-CA-CB	5.64	120.01	110.49
1	23	84	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	kG	51	ASP	CA-CB-CG	-5.64	106.96	112.60
1	kP	87	HIS	CA-CB-CG	-5.64	108.16	113.80
1	l6	16	SER	CA-C-N	5.64	125.25	119.56
1	l6	16	SER	C-N-CA	5.64	125.25	119.56
1	l7	60	GLY	CA-C-O	5.64	126.12	120.09
1	ll	161	PHE	CA-CB-CG	5.64	119.44	113.80
1	ls	126	VAL	CA-C-N	5.64	126.34	120.03
1	ls	126	VAL	C-N-CA	5.64	126.34	120.03
1	lw	200	THR	CA-C-O	5.64	126.53	120.55
1	lz	211	LEU	CA-C-N	5.64	127.83	120.28
1	lz	211	LEU	C-N-CA	5.64	127.83	120.28
1	lL	117	TRP	CD2-CE2-CZ2	-5.64	116.76	122.40
1	lM	193	ASN	CA-CB-CG	-5.64	106.96	112.60
1	lO	84	HIS	CB-CG-CD2	-5.64	123.87	131.20
1	2c	20	LEU	N-CA-C	5.64	117.42	111.28
1	2g	29	GLU	N-CA-C	5.64	117.42	111.28
1	2k	159	GLU	N-CA-C	5.64	117.61	109.04
1	2z	47	ALA	O-C-N	-5.64	116.59	122.96
1	2F	91	ILE	N-CA-C	5.64	116.58	110.21
1	2K	177	ALA	N-CA-C	5.64	118.40	110.23
1	3m	166	ASP	O-C-N	5.64	128.58	122.15
1	3m	199	LYS	N-CA-C	5.64	117.10	111.07
1	3r	5	ASN	CA-CB-CG	5.64	118.24	112.60
1	3y	226	HIS	CG-CD2-NE2	5.64	112.84	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3F	57	ASN	CA-C-N	5.64	127.83	120.28
1	3F	57	ASN	C-N-CA	5.64	127.83	120.28
1	3F	148	THR	CA-C-O	5.64	127.35	120.92
1	3S	36	VAL	CB-CA-C	-5.64	104.75	111.97
1	3S	38	PRO	O-C-N	-5.64	114.66	122.27
1	3T	209	ALA	CA-C-O	-5.64	114.99	121.47
1	4l	57	ASN	CA-CB-CG	5.64	118.24	112.60
1	4v	55	MET	N-CA-C	5.64	117.10	111.07
1	4H	96	MET	CA-C-N	5.64	129.79	120.94
1	4H	96	MET	C-N-CA	5.64	129.79	120.94
1	4P	37	ILE	CA-C-O	-5.64	114.91	118.69
1	4P	119	THR	N-CA-CB	5.64	120.50	111.20
1	4W	39	MET	CA-C-N	5.64	128.15	120.54
1	4W	39	MET	C-N-CA	5.64	128.15	120.54
1	4W	95	GLN	CB-CG-CD	5.64	122.18	112.60
1	53	228	ALA	N-CA-CB	5.64	118.65	109.69
1	57	62	HIS	CA-C-N	5.64	128.88	120.31
1	57	62	HIS	C-N-CA	5.64	128.88	120.31
1	5E	188	THR	CA-C-N	5.64	128.40	120.28
1	5E	188	THR	C-N-CA	5.64	128.40	120.28
1	5F	192	GLN	N-CA-C	5.64	118.19	111.71
1	5N	79	GLU	N-CA-C	5.64	117.42	111.28
1	68	132	ARG	N-CA-CB	5.64	118.51	110.06
1	6g	63	GLN	O-C-N	-5.64	114.88	122.43
1	6v	35	GLU	N-CA-C	5.64	118.97	111.75
1	6F	214	MET	CA-C-O	5.64	126.74	120.82
1	6G	192	GLN	OE1-CD-NE2	5.64	128.24	122.60
1	6S	199	LYS	O-C-N	5.64	128.09	122.12
1	6T	113	GLU	N-CA-C	5.64	117.42	111.28
1	6U	152	ASP	O-C-N	-5.64	113.99	122.28
1	6Y	25	LYS	N-CA-C	5.64	117.42	111.28
1	79	130	TYR	CA-CB-CG	5.64	124.05	113.90
1	7j	212	GLU	O-C-N	-5.64	116.27	122.07
1	7o	162	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	7p	13	GLN	CA-C-O	5.64	126.79	120.70
1	7y	101	GLY	CA-C-N	5.64	127.77	120.44
1	7y	101	GLY	C-N-CA	5.64	127.77	120.44
1	7A	82	ARG	CB-CA-C	-5.64	101.43	110.79
1	7C	63	GLN	O-C-N	-5.64	114.74	122.46
1	7S	145	TYR	CA-C-O	-5.64	112.97	119.56
1	80	168	PHE	CA-CB-CG	-5.64	108.16	113.80
1	87	28	GLU	O-C-N	-5.64	116.17	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8a	87	HIS	N-CA-CB	5.64	118.25	109.97
1	8h	114	GLN	CA-C-N	5.64	128.48	120.53
1	8h	114	GLN	C-N-CA	5.64	128.48	120.53
1	8J	130	TYR	O-C-N	-5.64	116.26	122.07
1	9l	83	LEU	N-CA-C	5.64	117.10	111.07
1	9C	40	PHE	CA-C-N	5.64	127.77	120.44
1	9C	40	PHE	C-N-CA	5.64	127.77	120.44
1	9K	206	GLY	CA-C-N	5.64	125.57	119.76
1	9K	206	GLY	C-N-CA	5.64	125.57	119.76
1	9O	22	ALA	N-CA-C	5.64	117.42	111.28
1	a6	19	THR	O-C-N	5.64	128.81	122.22
1	aa	15	ILE	N-CA-C	5.64	121.06	109.34
1	ab	110	THR	O-C-N	-5.64	116.36	122.79
1	ai	162	ARG	CA-C-O	-5.64	113.49	119.97
1	aj	24	VAL	N-CA-C	5.64	117.05	110.62
1	11	52	LEU	CA-C-O	5.64	126.53	120.55
1	ak	219	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	12	165	VAL	CA-C-N	5.64	127.83	120.28
1	12	165	VAL	C-N-CA	5.64	127.83	120.28
1	ay	48	THR	CA-C-N	5.64	125.00	118.85
1	ay	48	THR	C-N-CA	5.64	125.00	118.85
1	aD	142	VAL	CB-CA-C	5.64	119.75	112.14
1	aL	185	MET	CA-C-O	5.64	126.52	120.55
1	aQ	52	LEU	N-CA-C	5.64	117.88	111.11
1	bc	225	GLY	O-C-N	-5.64	116.78	122.59
1	bg	165	VAL	CA-CB-CG2	-5.64	100.82	110.40
1	bn	86	VAL	N-CA-C	5.64	116.28	108.84
1	bp	164	TYR	CB-CA-C	5.64	120.14	110.79
1	bB	184	TRP	N-CA-C	5.64	117.10	111.07
1	bQ	154	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	bQ	195	ASN	CB-CA-C	5.64	119.64	109.61
1	bS	36	VAL	N-CA-C	-5.64	104.87	110.62
1	bS	229	ARG	CA-C-O	-5.64	115.46	121.94
1	bW	135	ILE	CB-CA-C	5.64	119.40	112.02
1	c1	91	ILE	N-CA-C	5.64	117.57	109.51
1	c3	22	ALA	CA-C-N	5.64	127.77	120.44
1	c3	22	ALA	C-N-CA	5.64	127.77	120.44
1	c9	23	TRP	CA-C-O	5.64	126.40	120.42
1	cy	226	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	cD	179	GLN	CA-C-O	5.64	126.47	120.10
1	cQ	19	THR	CA-C-O	-5.64	114.58	120.55
1	cR	167	ARG	N-CA-C	5.64	117.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cY	19	THR	CA-CB-OG1	-5.64	101.14	109.60
1	d0	106	GLY	CA-C-O	-5.64	112.84	119.72
1	d1	120	HIS	ND1-CE1-NE2	5.64	114.04	108.40
1	d2	30	LYS	N-CA-C	5.64	119.47	112.59
1	d6	101	GLY	CA-C-N	5.64	131.00	121.14
1	d6	101	GLY	C-N-CA	5.64	131.00	121.14
1	db	4	GLN	OE1-CD-NE2	-5.64	116.96	122.60
1	do	179	GLN	CA-C-N	5.64	130.26	120.68
1	do	179	GLN	C-N-CA	5.64	130.26	120.68
1	dv	174	ALA	N-CA-C	5.64	117.42	111.28
1	dC	85	PRO	CA-C-N	5.64	128.27	120.49
1	dC	85	PRO	C-N-CA	5.64	128.27	120.49
1	dL	82	ARG	CA-C-N	5.64	127.77	120.44
1	dL	82	ARG	C-N-CA	5.64	127.77	120.44
1	dP	152	ASP	CA-CB-CG	5.64	118.24	112.60
1	dQ	132	ARG	NE-CZ-NH2	5.64	124.27	119.20
1	eg	70	LYS	O-C-N	-5.64	115.34	122.27
1	1q	93	PRO	N-CA-CB	5.64	108.33	103.31
1	ew	139	ASN	CA-C-O	5.64	126.53	120.55
1	eF	46	GLY	CA-C-N	5.64	128.84	120.95
1	eF	46	GLY	C-N-CA	5.64	128.84	120.95
1	eH	222	GLY	CA-C-N	5.64	128.57	121.36
1	eH	222	GLY	C-N-CA	5.64	128.57	121.36
1	f8	173	ARG	CA-C-O	5.64	126.38	119.05
1	fb	87	HIS	CB-CG-CD2	5.64	138.53	131.20
1	fb	135	ILE	CA-C-O	5.64	127.13	121.27
1	fK	17	PRO	N-CA-CB	5.64	109.75	103.44
1	fQ	189	LEU	CB-CA-C	5.64	119.73	110.88
1	fS	159	GLU	O-C-N	-5.64	116.16	121.35
1	fT	100	ARG	N-CA-C	-5.64	102.12	110.46
1	fW	24	VAL	N-CA-C	-5.64	104.87	110.62
1	fX	164	TYR	CB-CA-C	5.64	120.20	110.84
1	fX	206	GLY	CA-C-N	5.64	126.89	119.84
1	fX	206	GLY	C-N-CA	5.64	126.89	119.84
1	g6	111	LEU	CA-C-N	5.64	127.77	120.44
1	g6	111	LEU	C-N-CA	5.64	127.77	120.44
1	g7	120	HIS	CE1-NE2-CD2	-5.64	103.36	109.00
1	i	136	LEU	O-C-N	-5.64	116.15	122.12
1	t	135	ILE	N-CA-CB	5.64	118.20	110.54
1	u	65	ALA	O-C-N	-5.64	116.27	122.07
1	w	77	ALA	O-C-N	-5.64	115.72	122.15
1	J	18	ARG	N-CA-C	5.64	117.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	197	ASP	CB-CA-C	-5.63	101.44	110.79
1	gc	92	GLU	CA-C-O	-5.63	114.45	119.75
1	gd	73	ILE	CA-C-N	5.63	127.76	120.44
1	gd	73	ILE	C-N-CA	5.63	127.76	120.44
1	1C	176	GLN	CA-C-N	5.63	128.84	120.90
1	1C	176	GLN	C-N-CA	5.63	128.84	120.90
1	gj	120	HIS	CA-C-O	-5.63	115.67	121.87
1	gm	134	ILE	N-CA-CB	5.63	116.76	110.51
1	gn	198	CYS	CA-C-N	5.63	127.76	120.44
1	gn	198	CYS	C-N-CA	5.63	127.76	120.44
1	gt	25	LYS	CA-C-N	5.63	127.87	120.60
1	gt	25	LYS	C-N-CA	5.63	127.87	120.60
1	1G	81	ASP	O-C-N	-5.63	116.15	122.12
1	h6	217	ALA	CA-C-O	-5.63	115.00	121.82
1	h9	113	GLU	N-CA-C	5.63	117.42	111.28
1	ha	85	PRO	N-CD-CG	5.63	111.65	103.20
1	1I	195	ASN	N-CA-C	5.63	116.80	109.64
1	hn	63	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	ho	47	ALA	O-C-N	-5.63	116.00	122.93
1	hI	62	HIS	CE1-NE2-CD2	-5.63	103.36	109.00
1	hK	95	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	hV	62	HIS	CB-CG-ND1	-5.63	114.25	122.70
1	i6	84	HIS	N-CA-C	5.63	116.99	109.83
1	ib	58	THR	CA-C-O	5.63	126.52	120.55
1	it	171	THR	CA-C-N	5.63	127.76	120.44
1	it	171	THR	C-N-CA	5.63	127.76	120.44
1	iu	85	PRO	CA-C-O	-5.63	115.20	121.23
1	iw	116	GLY	O-C-N	-5.63	116.78	122.19
1	iz	19	THR	CB-CA-C	-5.63	102.03	110.88
1	iA	192	GLN	N-CA-C	5.63	117.42	111.28
1	iL	103	ASP	N-CA-C	5.63	117.50	111.36
1	iP	200	THR	CA-C-O	5.63	127.61	121.02
1	iS	81	ASP	CA-CB-CG	-5.63	106.97	112.60
1	iT	62	HIS	O-C-N	-5.63	114.86	122.41
1	j0	157	PRO	CB-CA-C	5.63	120.86	111.56
1	j2	84	HIS	CA-C-N	5.63	126.88	119.84
1	j2	84	HIS	C-N-CA	5.63	126.88	119.84
1	j8	7	GLN	O-C-N	-5.63	116.37	122.79
1	jh	185	MET	CA-C-N	5.63	128.88	120.31
1	jh	185	MET	C-N-CA	5.63	128.88	120.31
1	jp	67	GLN	O-C-N	-5.63	116.15	122.12
1	ju	121	ASN	O-C-N	-5.63	116.38	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jy	120	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	jL	95	GLN	CA-C-N	5.63	127.83	120.28
1	jL	95	GLN	C-N-CA	5.63	127.83	120.28
1	k6	21	ASN	CA-C-N	5.63	128.29	120.29
1	k6	21	ASN	C-N-CA	5.63	128.29	120.29
1	k6	172	LEU	CA-C-N	5.63	128.39	120.28
1	k6	172	LEU	C-N-CA	5.63	128.39	120.28
1	kh	210	THR	CA-CB-OG1	5.63	118.05	109.60
1	kn	1	PRO	CB-CA-C	5.63	120.81	110.10
1	kx	82	ARG	CG-CD-NE	-5.63	99.61	112.00
1	kB	129	ILE	CB-CA-C	-5.63	104.44	112.22
1	kH	171	THR	N-CA-CB	5.63	118.40	110.12
1	kY	120	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	l0	16	SER	O-C-N	-5.63	116.17	121.35
1	l1	33	SER	N-CA-C	5.63	116.80	109.64
1	l3	90	PRO	CA-C-N	5.63	127.87	120.60
1	l3	90	PRO	C-N-CA	5.63	127.87	120.60
1	l3	103	ASP	CA-CB-CG	5.63	118.23	112.60
1	l8	134	ILE	N-CA-C	5.63	116.37	110.62
1	l8	219	GLN	O-C-N	-5.63	116.60	123.19
1	lj	148	THR	O-C-N	-5.63	116.30	122.67
1	lp	152	ASP	CA-CB-CG	5.63	118.23	112.60
1	lq	187	GLU	CB-CG-CD	5.63	122.18	112.60
1	28	129	ILE	N-CA-C	5.63	115.83	110.42
1	2l	6	LEU	N-CA-CB	5.63	120.01	110.49
1	2p	168	PHE	CB-CA-C	5.63	119.64	110.96
1	2p	205	LEU	CA-C-O	5.63	126.10	119.28
1	2v	5	ASN	OD1-CG-ND2	5.63	128.23	122.60
1	2x	126	VAL	CA-C-O	-5.63	114.54	120.57
1	2A	39	MET	CG-SD-CE	-5.63	88.50	100.90
1	2I	179	GLN	OE1-CD-NE2	5.63	128.24	122.60
1	2V	88	ALA	CA-C-O	5.63	127.10	120.96
1	2W	135	ILE	O-C-N	-5.63	116.18	121.87
1	2X	138	LEU	N-CA-C	5.63	117.10	111.07
1	2Z	80	TRP	O-C-N	-5.63	116.15	122.12
1	38	182	LYS	CB-CA-C	5.63	120.14	110.79
1	3o	50	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	3A	32	PHE	CA-CB-CG	-5.63	108.17	113.80
1	3B	218	CYS	N-CA-C	5.63	122.29	113.72
1	3C	36	VAL	CA-CB-CG2	5.63	119.98	110.40
1	3G	139	ASN	N-CA-C	5.63	117.87	111.11
1	3P	138	LEU	CA-C-N	5.63	127.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	138	LEU	C-N-CA	5.63	127.83	120.28
1	46	37	ILE	O-C-N	-5.63	116.07	120.07
1	46	131	LYS	O-C-N	5.63	128.09	122.12
1	4f	20	LEU	CA-C-N	5.63	127.83	120.28
1	4f	20	LEU	C-N-CA	5.63	127.83	120.28
1	4h	160	PRO	O-C-N	-5.63	116.84	122.98
1	4i	39	MET	CG-SD-CE	-5.63	88.50	100.90
1	4u	80	TRP	CA-C-N	5.63	127.83	120.28
1	4u	80	TRP	C-N-CA	5.63	127.83	120.28
1	4v	223	GLY	O-C-N	-5.63	116.14	121.77
1	4N	148	THR	CA-C-N	5.63	129.10	120.82
1	4N	148	THR	C-N-CA	5.63	129.10	120.82
1	4O	84	HIS	CA-CB-CG	-5.63	108.17	113.80
1	4S	198	CYS	CA-C-N	5.63	128.15	120.54
1	4S	198	CYS	C-N-CA	5.63	128.15	120.54
1	4V	31	ALA	N-CA-CB	5.63	120.01	110.49
1	4W	198	CYS	CA-C-N	5.63	128.10	120.38
1	4W	198	CYS	C-N-CA	5.63	128.10	120.38
1	5g	91	ILE	O-C-N	-5.63	116.66	122.63
1	5h	166	ASP	N-CA-C	-5.63	105.22	111.36
1	5l	84	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	5x	120	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	5z	152	ASP	CA-CB-CG	5.63	118.23	112.60
1	61	22	ALA	N-CA-C	5.63	117.10	111.07
1	66	82	ARG	N-CA-C	-5.63	106.24	113.23
1	6d	120	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	6k	10	MET	N-CA-C	5.63	118.40	110.23
1	6z	204	ALA	CA-C-N	5.63	131.00	121.14
1	6z	204	ALA	C-N-CA	5.63	131.00	121.14
1	6B	47	ALA	CA-C-O	5.63	127.47	121.05
1	7a	229	ARG	CA-C-N	5.63	130.69	122.69
1	7a	229	ARG	C-N-CA	5.63	130.69	122.69
1	7c	3	VAL	N-CA-CB	-5.63	104.16	111.82
1	7d	85	PRO	N-CA-CB	-5.63	98.30	103.31
1	7g	49	PRO	CA-C-N	5.63	127.76	120.44
1	7g	49	PRO	C-N-CA	5.63	127.76	120.44
1	7i	79	GLU	CA-C-N	5.63	127.77	120.44
1	7i	79	GLU	C-N-CA	5.63	127.77	120.44
1	7j	62	HIS	CB-CG-ND1	-5.63	114.25	122.70
1	7l	109	SER	N-CA-CB	5.63	119.76	110.69
1	7l	219	GLN	CA-C-N	5.63	129.60	121.54
1	7l	219	GLN	C-N-CA	5.63	129.60	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7w	17	PRO	O-C-N	-5.63	115.03	122.64
1	7y	185	MET	O-C-N	-5.63	116.15	122.12
1	7H	224	PRO	CA-C-O	-5.63	114.80	121.67
1	7P	52	LEU	CA-C-N	5.63	127.77	120.44
1	7P	52	LEU	C-N-CA	5.63	127.77	120.44
1	88	143	ARG	N-CA-C	5.63	117.50	111.36
1	8n	146	SER	CA-C-N	5.63	125.58	119.78
1	8n	146	SER	C-N-CA	5.63	125.58	119.78
1	8C	129	ILE	N-CA-C	5.63	116.09	110.23
1	8Y	133	TRP	CA-C-N	5.63	128.18	120.46
1	8Y	133	TRP	C-N-CA	5.63	128.18	120.46
1	91	33	SER	CA-C-O	-5.63	115.28	120.13
1	99	148	THR	CA-C-O	-5.63	114.79	121.16
1	9d	117	TRP	N-CA-C	5.63	118.36	111.82
1	9h	69	LEU	N-CA-CB	5.63	118.40	110.12
1	9t	83	LEU	N-CA-C	5.63	117.42	111.28
1	9t	142	VAL	CA-CB-CG2	5.63	119.98	110.40
1	9N	151	LEU	N-CA-C	5.63	119.42	112.54
1	9O	166	ASP	CA-C-N	5.63	127.83	120.28
1	9O	166	ASP	C-N-CA	5.63	127.83	120.28
1	9S	112	GLN	CA-C-N	5.63	127.76	120.44
1	9S	112	GLN	C-N-CA	5.63	127.76	120.44
1	9S	206	GLY	CA-C-N	5.63	125.73	119.87
1	9S	206	GLY	C-N-CA	5.63	125.73	119.87
1	9Z	23	TRP	CE2-CD2-CE3	5.63	124.44	118.80
1	a5	3	VAL	N-CA-C	5.63	116.96	108.96
1	as	84	HIS	CA-C-O	-5.63	115.09	119.99
1	az	82	ARG	CA-C-N	5.63	128.10	120.44
1	az	82	ARG	C-N-CA	5.63	128.10	120.44
1	b0	226	HIS	CB-CG-ND1	5.63	131.15	122.70
1	b8	7	GLN	CA-C-O	5.63	125.34	119.14
1	b8	97	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	bp	177	ALA	CA-C-O	5.63	127.47	121.16
1	bq	70	LYS	CA-CB-CG	5.63	125.37	114.10
1	bq	205	LEU	O-C-N	-5.63	115.58	122.34
1	br	18	ARG	CG-CD-NE	-5.63	99.61	112.00
1	bz	144	MET	O-C-N	5.63	128.18	122.09
1	bA	23	TRP	N-CA-C	5.63	117.10	111.07
1	bA	217	ALA	CA-C-N	5.63	130.57	122.35
1	bA	217	ALA	C-N-CA	5.63	130.57	122.35
1	bD	23	TRP	CA-CB-CG	5.63	124.31	113.60
1	bG	4	GLN	O-C-N	-5.63	116.96	123.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bL	141	ILE	N-CA-CB	5.63	118.20	110.54
1	bV	164	TYR	CA-C-N	5.63	127.87	120.60
1	bV	164	TYR	C-N-CA	5.63	127.87	120.60
1	bX	16	SER	CA-C-N	5.63	126.88	119.84
1	bX	16	SER	C-N-CA	5.63	126.88	119.84
1	c0	87	HIS	CE1-NE2-CD2	-5.63	103.36	109.00
1	c3	153	ILE	N-CA-C	5.63	116.85	109.58
1	ca	226	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	cl	87	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	cY	84	HIS	CB-CG-CD2	5.63	138.52	131.20
1	d9	161	PHE	CA-C-N	5.63	128.10	120.38
1	d9	161	PHE	C-N-CA	5.63	128.10	120.38
1	1l	169	TYR	CA-C-N	5.63	127.77	120.44
1	1l	169	TYR	C-N-CA	5.63	127.77	120.44
1	dM	8	GLY	O-C-N	-5.63	118.53	123.88
1	dO	43	LEU	CA-C-O	5.63	126.52	120.55
1	dR	129	ILE	N-CA-C	-5.63	105.01	110.42
1	e5	227	LYS	N-CA-C	5.63	118.01	110.35
1	1p	23	TRP	CB-CG-CD2	-5.63	118.91	126.80
1	ec	229	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	ek	25	LYS	CA-C-O	-5.63	114.91	120.82
1	1q	100	ARG	NE-CZ-NH2	-5.63	114.13	119.20
1	ep	116	GLY	O-C-N	-5.63	115.38	122.70
1	er	185	MET	N-CA-C	5.63	117.42	111.28
1	1r	206	GLY	CA-C-O	-5.63	113.46	121.52
1	eF	32	PHE	N-CA-C	5.63	118.50	110.10
1	eM	47	ALA	CA-C-O	5.63	127.48	121.11
1	f7	14	ALA	CA-C-N	5.63	128.05	120.50
1	f7	14	ALA	C-N-CA	5.63	128.05	120.50
1	ft	112	GLN	CA-C-N	5.63	127.77	120.44
1	ft	112	GLN	C-N-CA	5.63	127.77	120.44
1	fR	133	TRP	CB-CG-CD2	-5.63	118.91	126.80
1	fZ	222	GLY	CA-C-N	5.63	130.72	121.87
1	fZ	222	GLY	C-N-CA	5.63	130.72	121.87
1	g2	64	ALA	CA-C-N	5.63	127.77	120.44
1	g2	64	ALA	C-N-CA	5.63	127.77	120.44
1	g2	129	ILE	O-C-N	-5.63	116.41	121.87
1	g	79	GLU	N-CA-C	5.63	117.42	111.28
1	j	194	ALA	CA-C-N	5.63	128.22	120.39
1	j	194	ALA	C-N-CA	5.63	128.22	120.39
1	u	115	ILE	CA-CB-CG1	5.63	119.98	110.40
1	y	104	ILE	N-CA-CB	5.63	117.51	110.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	183	ASN	CA-C-O	5.63	126.39	120.42
1	H	15	ILE	N-CA-C	5.63	116.98	109.37
1	M	210	THR	CA-C-N	5.63	127.83	120.28
1	M	210	THR	C-N-CA	5.63	127.83	120.28
1	7	55	MET	O-C-N	-5.63	116.05	122.08
1	8	142	VAL	CA-C-O	5.63	126.81	120.95
1	9	21	ASN	N-CA-C	5.63	117.87	111.11
1	gc	134	ILE	O-C-N	-5.63	116.39	121.91
1	gw	49	PRO	CA-C-N	5.63	128.39	120.28
1	gw	49	PRO	C-N-CA	5.63	128.39	120.28
1	gI	194	ALA	O-C-N	-5.63	116.59	122.96
1	gN	26	VAL	CA-C-N	5.63	127.66	120.56
1	gN	26	VAL	C-N-CA	5.63	127.66	120.56
1	hb	119	THR	O-C-N	-5.63	115.12	122.39
1	hc	181	VAL	CA-C-N	5.63	127.83	120.28
1	hc	181	VAL	C-N-CA	5.63	127.83	120.28
1	hd	87	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	hk	79	GLU	CA-C-N	5.63	127.76	120.44
1	hk	79	GLU	C-N-CA	5.63	127.76	120.44
1	hp	211	LEU	N-CA-C	5.63	118.36	111.82
1	hN	197	ASP	O-C-N	-5.63	114.78	122.33
1	1N	169	TYR	N-CA-C	5.63	117.42	111.28
1	i7	212	GLU	N-CA-C	5.63	117.10	111.07
1	it	23	TRP	CE2-CD2-CE3	5.63	124.43	118.80
1	iJ	111	LEU	N-CA-CB	-5.63	101.55	109.94
1	k2	115	ILE	CA-C-O	5.63	126.40	119.58
1	k7	14	ALA	CA-C-N	5.63	129.00	120.77
1	k7	14	ALA	C-N-CA	5.63	129.00	120.77
1	kr	33	SER	CA-C-N	5.63	126.88	119.84
1	kr	33	SER	C-N-CA	5.63	126.88	119.84
1	lj	113	GLU	O-C-N	-5.63	115.73	122.15
1	2q	175	GLU	N-CA-C	5.63	118.40	110.23
1	2K	154	ARG	NH1-CZ-NH2	5.63	126.62	119.30
1	3D	136	LEU	CD1-CG-CD2	-5.63	98.41	110.80
1	3U	198	CYS	CA-C-N	5.63	128.10	120.38
1	3U	198	CYS	C-N-CA	5.63	128.10	120.38
1	3X	189	LEU	N-CA-C	5.63	118.19	111.71
1	40	84	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	4a	96	MET	CG-SD-CE	-5.63	88.51	100.90
1	4w	103	ASP	CA-CB-CG	-5.63	106.97	112.60
1	4P	162	ARG	N-CA-C	5.63	117.42	111.28
1	4S	154	ARG	NE-CZ-NH1	-5.63	115.87	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	176	GLN	CA-C-O	5.63	126.32	119.11
1	5U	86	VAL	O-C-N	-5.63	116.18	122.66
1	68	25	LYS	N-CA-C	5.63	117.10	111.07
1	68	212	GLU	CA-C-O	5.63	126.93	120.90
1	6j	81	ASP	CA-CB-CG	5.63	118.23	112.60
1	6A	80	TRP	CA-C-N	5.63	128.87	120.31
1	6A	80	TRP	C-N-CA	5.63	128.87	120.31
1	6N	219	GLN	N-CA-C	5.63	118.64	110.42
1	6P	216	THR	CA-C-N	5.63	127.76	120.44
1	6P	216	THR	C-N-CA	5.63	127.76	120.44
1	7v	195	ASN	N-CA-C	5.63	117.78	109.50
1	7N	136	LEU	O-C-N	-5.63	116.15	122.12
1	8e	19	THR	CA-CB-OG1	-5.63	101.15	109.60
1	8v	8	GLY	O-C-N	-5.63	117.44	122.57
1	8w	164	TYR	O-C-N	-5.63	116.27	122.07
1	9b	170	LYS	CA-C-N	5.63	128.39	120.28
1	9b	170	LYS	C-N-CA	5.63	128.39	120.28
1	9k	143	ARG	CA-C-O	-5.63	114.45	120.42
1	9o	172	LEU	N-CA-C	5.63	117.42	111.28
1	9P	59	VAL	CA-C-O	5.63	127.26	121.23
1	9V	12	HIS	CA-CB-CG	-5.63	108.17	113.80
1	a7	1	PRO	CB-CA-C	5.63	120.80	110.10
1	14	155	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	aT	165	VAL	N-CA-C	5.63	116.37	110.62
1	aW	211	LEU	CA-C-O	5.63	126.71	120.63
1	aY	175	GLU	O-C-N	-5.63	116.00	122.93
1	bb	168	PHE	O-C-N	-5.63	116.27	122.07
1	bj	223	GLY	O-C-N	-5.63	116.14	121.77
1	bp	62	HIS	ND1-CG-CD2	5.63	111.73	106.10
1	bA	156	GLY	O-C-N	-5.63	117.35	122.42
1	bB	146	SER	CA-C-O	-5.63	114.41	119.59
1	bG	133	TRP	CA-C-N	5.63	127.66	120.56
1	bG	133	TRP	C-N-CA	5.63	127.66	120.56
1	bU	107	THR	O-C-N	-5.63	115.73	122.15
1	c8	131	LYS	N-CA-C	5.63	118.15	111.33
1	1d	110	THR	CB-CA-C	5.63	121.34	109.79
1	1e	212	GLU	CB-CA-C	-5.63	101.80	110.81
1	cs	184	TRP	CB-CG-CD2	5.63	134.69	126.80
1	cY	181	VAL	CA-C-N	5.63	127.83	120.28
1	cY	181	VAL	C-N-CA	5.63	127.83	120.28
1	d0	201	ILE	N-CA-C	5.63	115.83	110.42
1	dc	135	ILE	CA-C-N	5.63	130.15	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	135	ILE	C-N-CA	5.63	130.15	121.19
1	di	84	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	do	169	TYR	N-CA-CB	5.63	118.50	110.16
1	dt	74	ASN	CA-CB-CG	-5.63	106.97	112.60
1	dA	222	GLY	CA-C-N	5.63	130.71	121.87
1	dA	222	GLY	C-N-CA	5.63	130.71	121.87
1	dC	179	GLN	CA-C-O	5.63	126.93	120.90
1	e1	12	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	er	18	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	eE	122	PRO	CA-C-N	5.63	125.65	119.90
1	eE	122	PRO	C-N-CA	5.63	125.65	119.90
1	eL	36	VAL	N-CA-C	5.63	116.37	110.62
1	fS	169	TYR	CB-CG-CD1	-5.63	112.35	120.80
1	a	121	ASN	N-CA-C	-5.63	103.07	110.39
1	a	136	LEU	CA-C-N	5.63	126.23	119.98
1	a	136	LEU	C-N-CA	5.63	126.23	119.98
1	c	38	PRO	CA-C-N	5.63	127.83	120.28
1	c	38	PRO	C-N-CA	5.63	127.83	120.28
1	g	102	SER	CA-C-N	5.63	127.83	120.28
1	g	102	SER	C-N-CA	5.63	127.83	120.28
1	gp	111	LEU	CA-C-O	5.63	126.52	120.55
1	gp	208	ALA	N-CA-CB	5.63	120.01	110.49
1	gr	142	VAL	N-CA-CB	5.63	117.14	110.55
1	1D	114	GLN	N-CA-C	5.63	117.42	111.28
1	1D	121	ASN	O-C-N	5.63	127.59	121.23
1	gz	42	ALA	N-CA-C	5.63	117.42	111.28
1	gK	201	ILE	CA-C-O	5.63	127.14	121.17
1	gW	35	GLU	CA-C-O	5.63	126.32	119.11
1	h2	205	LEU	N-CA-C	5.63	117.42	111.28
1	h4	161	PHE	CA-C-N	5.63	128.29	120.29
1	h4	161	PHE	C-N-CA	5.63	128.29	120.29
1	h6	201	ILE	O-C-N	5.63	127.33	121.87
1	h7	66	MET	CB-CA-C	-5.63	101.44	110.79
1	h8	107	THR	CA-CB-OG1	5.63	118.05	109.60
1	hb	59	VAL	N-CA-CB	5.63	116.97	110.49
1	hf	221	VAL	N-CA-C	5.63	116.34	109.30
1	hh	53	ASN	CA-C-N	5.63	128.29	120.29
1	hh	53	ASN	C-N-CA	5.63	128.29	120.29
1	hi	69	LEU	N-CA-C	5.63	117.42	111.28
1	hx	152	ASP	CA-C-N	5.63	128.12	120.63
1	hx	152	ASP	C-N-CA	5.63	128.12	120.63
1	hz	123	PRO	CA-C-O	-5.63	115.03	121.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i4	164	TYR	CA-C-N	5.63	128.42	120.42
1	i4	164	TYR	C-N-CA	5.63	128.42	120.42
1	i6	202	LEU	O-C-N	-5.63	114.91	122.23
1	id	206	GLY	CA-C-N	5.63	125.25	119.56
1	id	206	GLY	C-N-CA	5.63	125.25	119.56
1	io	73	ILE	CB-CA-C	-5.63	103.14	112.26
1	it	116	GLY	O-C-N	-5.63	116.77	122.18
1	iQ	7	GLN	N-CA-CB	5.63	119.58	110.40
1	iR	36	VAL	CA-C-N	5.63	123.79	120.24
1	iR	36	VAL	C-N-CA	5.63	123.79	120.24
1	1T	40	PHE	CA-C-O	5.63	126.52	120.55
1	j6	144	MET	CG-SD-CE	-5.63	88.51	100.90
1	j7	167	ARG	CB-CA-C	5.63	121.48	110.67
1	j8	66	MET	N-CA-CB	5.63	118.40	110.12
1	jb	110	THR	N-CA-CB	5.63	121.35	111.55
1	jm	141	ILE	O-C-N	-5.63	116.39	121.91
1	jn	82	ARG	CA-C-N	5.63	128.29	120.29
1	jn	82	ARG	C-N-CA	5.63	128.29	120.29
1	ju	161	PHE	CB-CA-C	5.63	121.63	110.42
1	jz	179	GLN	CA-C-O	5.63	126.39	120.42
1	jP	22	ALA	O-C-N	5.63	128.09	122.12
1	1Y	135	ILE	N-CA-C	5.63	116.36	110.62
1	jT	183	ASN	N-CA-C	5.63	117.87	111.11
1	kd	3	VAL	CG1-CB-CG2	-5.63	98.41	110.80
1	kh	185	MET	N-CA-C	5.63	117.42	111.28
1	km	182	LYS	CA-C-N	5.63	128.14	120.54
1	km	182	LYS	C-N-CA	5.63	128.14	120.54
1	kG	64	ALA	CA-C-N	5.63	127.83	120.28
1	kG	64	ALA	C-N-CA	5.63	127.83	120.28
1	kX	18	ARG	N-CA-C	5.63	117.42	111.28
1	kY	67	GLN	O-C-N	-5.63	115.63	122.22
1	kZ	87	HIS	CA-C-N	5.63	131.33	122.21
1	kZ	87	HIS	C-N-CA	5.63	131.33	122.21
1	26	197	ASP	CA-CB-CG	-5.63	106.97	112.60
1	ld	181	VAL	N-CA-C	5.63	116.36	110.62
1	lg	152	ASP	CA-CB-CG	5.63	118.23	112.60
1	lh	94	GLY	N-CA-C	5.63	121.20	113.99
1	lu	72	THR	CA-C-O	5.63	126.73	120.82
1	lv	120	HIS	CB-CG-ND1	5.63	131.15	122.70
1	lG	196	PRO	CA-C-N	5.63	127.83	120.28
1	lG	196	PRO	C-N-CA	5.63	127.83	120.28
1	lI	141	ILE	CA-C-N	5.63	127.66	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lI	141	ILE	C-N-CA	5.63	127.66	120.56
1	lP	103	ASP	N-CA-C	5.63	117.42	111.28
1	2e	84	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	2p	165	VAL	O-C-N	-5.63	116.39	121.91
1	2u	25	LYS	O-C-N	-5.63	115.34	122.27
1	2w	48	THR	CA-C-N	5.63	125.74	119.32
1	2w	48	THR	C-N-CA	5.63	125.74	119.32
1	2G	160	PRO	N-CA-CB	5.63	108.21	103.25
1	2J	37	ILE	CA-C-O	5.63	123.64	118.85
1	3a	176	GLN	CA-C-N	5.63	129.10	120.82
1	3a	176	GLN	C-N-CA	5.63	129.10	120.82
1	3a	182	LYS	CA-C-N	5.63	128.14	120.54
1	3a	182	LYS	C-N-CA	5.63	128.14	120.54
1	3g	144	MET	N-CA-CB	-5.63	102.15	110.49
1	3m	3	VAL	CB-CA-C	-5.63	104.15	110.96
1	3v	50	GLN	CA-C-N	5.63	128.62	120.79
1	3v	50	GLN	C-N-CA	5.63	128.62	120.79
1	3C	29	GLU	N-CA-C	5.63	119.33	112.23
1	3N	84	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	3N	97	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	3N	167	ARG	NE-CZ-NH2	5.63	124.27	119.20
1	3T	229	ARG	CA-CB-CG	5.63	125.36	114.10
1	3V	23	TRP	CA-CB-CG	5.63	124.30	113.60
1	4c	19	THR	N-CA-C	5.63	117.42	111.28
1	4j	191	VAL	CA-C-N	5.63	127.83	120.28
1	4j	191	VAL	C-N-CA	5.63	127.83	120.28
1	4k	24	VAL	N-CA-C	5.63	116.41	110.72
1	4z	32	PHE	CA-C-O	5.63	126.15	119.56
1	53	105	ALA	N-CA-C	5.63	119.41	112.54
1	5a	62	HIS	N-CA-C	5.63	119.16	111.39
1	5v	121	ASN	CB-CA-C	5.63	121.39	111.20
1	5z	97	ARG	N-CA-C	5.63	117.59	110.33
1	5G	71	GLU	O-C-N	-5.63	116.23	122.09
1	5I	99	PRO	N-CA-CB	5.63	108.25	103.35
1	5N	211	LEU	CA-C-N	5.63	128.14	120.54
1	5N	211	LEU	C-N-CA	5.63	128.14	120.54
1	5O	67	GLN	CA-C-N	5.63	127.83	120.28
1	5O	67	GLN	C-N-CA	5.63	127.83	120.28
1	5P	103	ASP	CA-CB-CG	5.63	118.23	112.60
1	5S	69	LEU	O-C-N	-5.63	116.27	122.07
1	62	159	GLU	N-CA-C	5.63	116.50	109.57
1	6d	100	ARG	NE-CZ-NH2	5.63	124.27	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6x	87	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	6E	67	GLN	CA-C-N	5.63	127.76	120.44
1	6E	67	GLN	C-N-CA	5.63	127.76	120.44
1	6F	213	GLU	N-CA-C	5.63	118.14	111.33
1	6L	131	LYS	CB-CA-C	5.63	120.14	110.79
1	6N	16	SER	CA-C-N	5.63	126.88	119.84
1	6N	16	SER	C-N-CA	5.63	126.88	119.84
1	6O	197	ASP	N-CA-C	5.63	117.10	111.07
1	79	53	ASN	CA-C-N	5.63	127.83	120.28
1	79	53	ASN	C-N-CA	5.63	127.83	120.28
1	7e	195	ASN	CA-C-N	5.63	126.88	119.84
1	7e	195	ASN	C-N-CA	5.63	126.88	119.84
1	7h	26	VAL	N-CA-C	5.63	116.36	110.62
1	7u	228	ALA	O-C-N	-5.63	115.10	122.59
1	7y	48	THR	CA-C-N	5.63	125.74	119.32
1	7y	48	THR	C-N-CA	5.63	125.74	119.32
1	7C	52	LEU	N-CA-C	5.63	117.42	111.28
1	7K	181	VAL	N-CA-C	5.63	116.36	110.62
1	7Q	186	THR	N-CA-CB	5.63	118.49	110.16
1	7S	27	VAL	N-CA-CB	5.63	117.51	110.47
1	7S	76	GLU	CA-C-N	5.63	127.76	120.44
1	7S	76	GLU	C-N-CA	5.63	127.76	120.44
1	7T	173	ARG	N-CA-C	5.63	117.42	111.28
1	8q	171	THR	O-C-N	-5.63	116.15	122.12
1	8r	203	LYS	CA-C-N	5.63	128.39	120.28
1	8r	203	LYS	C-N-CA	5.63	128.39	120.28
1	8x	133	TRP	N-CA-C	5.63	117.42	111.28
1	8A	130	TYR	CA-C-N	5.63	127.83	120.28
1	8A	130	TYR	C-N-CA	5.63	127.83	120.28
1	8D	97	ARG	NH1-CZ-NH2	5.63	126.62	119.30
1	8R	101	GLY	CA-C-O	5.63	126.50	120.30
1	96	89	GLY	CA-C-N	5.63	126.88	119.84
1	96	89	GLY	C-N-CA	5.63	126.88	119.84
1	9o	194	ALA	CA-C-O	5.63	128.42	121.94
1	9v	56	LEU	N-CA-CB	5.63	118.18	110.01
1	9E	128	GLU	CB-CG-CD	5.63	122.17	112.60
1	9K	180	GLU	N-CA-C	5.63	117.10	111.07
1	Y	75	GLU	N-CA-C	5.63	117.42	111.28
1	a4	182	LYS	N-CA-C	5.63	117.10	111.07
1	a9	197	ASP	O-C-N	-5.63	116.01	122.09
1	aE	12	HIS	CA-CB-CG	5.63	119.43	113.80
1	aL	13	GLN	N-CA-CB	5.63	118.28	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aN	104	ILE	O-C-N	-5.63	115.53	122.18
1	aR	16	SER	O-C-N	-5.63	115.34	121.53
1	aW	64	ALA	N-CA-CB	-5.63	101.84	110.12
1	b7	141	ILE	CA-CB-CG1	5.63	119.97	110.40
1	b8	47	ALA	CA-C-O	5.63	127.52	121.55
1	bb	37	ILE	O-C-N	-5.63	116.81	120.42
1	bd	141	ILE	O-C-N	-5.63	116.41	121.87
1	bg	55	MET	CG-SD-CE	-5.63	88.51	100.90
1	17	138	LEU	N-CA-CB	5.63	118.40	110.12
1	bj	188	THR	N-CA-CB	5.63	120.01	110.49
1	by	199	LYS	O-C-N	-5.63	116.27	122.07
1	bA	125	PRO	N-CA-CB	5.63	106.19	102.25
1	bA	209	ALA	O-C-N	-5.63	115.22	122.20
1	bB	37	ILE	CA-C-O	5.63	122.46	118.69
1	bW	188	THR	CA-CB-OG1	5.63	118.05	109.60
1	c3	123	PRO	N-CA-C	5.63	120.16	111.21
1	c8	36	VAL	CA-C-N	5.63	125.84	120.43
1	c8	36	VAL	C-N-CA	5.63	125.84	120.43
1	cf	163	ASP	CA-C-N	5.63	128.09	120.38
1	cf	163	ASP	C-N-CA	5.63	128.09	120.38
1	co	75	GLU	N-CA-C	5.63	117.42	111.28
1	co	171	THR	O-C-N	-5.63	116.15	122.12
1	cs	13	GLN	CB-CG-CD	-5.63	103.03	112.60
1	cy	200	THR	N-CA-C	5.63	117.50	111.36
1	cE	105	ALA	N-CA-C	-5.63	106.45	113.15
1	cR	164	TYR	N-CA-C	5.63	117.10	111.07
1	cV	167	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	d4	111	LEU	N-CA-CB	5.63	118.38	109.82
1	d8	185	MET	CG-SD-CE	-5.63	88.51	100.90
1	dj	32	PHE	CA-CB-CG	-5.63	108.17	113.80
1	dm	174	ALA	N-CA-C	5.63	117.42	111.28
1	dJ	33	SER	CA-C-N	5.63	125.30	119.56
1	dJ	33	SER	C-N-CA	5.63	125.30	119.56
1	dP	52	LEU	N-CA-CB	-5.63	101.83	110.16
1	ea	48	THR	N-CA-CB	5.63	116.27	109.74
1	ec	154	ARG	O-C-N	-5.63	116.97	123.33
1	eg	180	GLU	N-CA-C	5.63	117.42	111.28
1	ei	60	GLY	N-CA-C	5.63	119.98	112.77
1	ej	50	GLN	O-C-N	-5.63	116.27	122.07
1	1q	121	ASN	CA-CB-CG	5.63	118.23	112.60
1	er	130	TYR	CA-C-N	5.63	127.83	120.28
1	er	130	TYR	C-N-CA	5.63	127.83	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	69	LEU	CA-C-O	-5.63	114.90	120.70
1	eM	139	ASN	N-CA-C	5.63	117.42	111.28
1	eR	33	SER	CA-C-O	-5.63	114.91	120.26
1	f9	207	PRO	CB-CA-C	5.63	118.60	111.39
1	fa	132	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	ff	221	VAL	CA-CB-CG2	5.63	119.97	110.40
1	1x	48	THR	CA-C-N	5.63	125.47	119.28
1	1x	48	THR	C-N-CA	5.63	125.47	119.28
1	fO	100	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	fV	32	PHE	CA-C-O	5.63	127.41	120.15
1	f	139	ASN	N-CA-C	5.63	118.14	111.33
1	s	37	ILE	N-CA-C	5.63	119.11	112.35
1	D	9	GLN	CA-C-N	5.63	130.64	122.36
1	D	9	GLN	C-N-CA	5.63	130.64	122.36
1	D	31	ALA	N-CA-C	5.63	119.16	111.39
1	3	91	ILE	CB-CA-C	5.63	119.18	111.97
1	3	143	ARG	CA-C-O	-5.63	115.10	120.90
1	J	18	ARG	CA-C-O	5.63	126.52	120.55
1	L	70	LYS	N-CA-C	5.63	118.19	111.71
1	M	171	THR	O-C-N	-5.63	116.01	122.09
1	U	18	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	1C	21	ASN	O-C-N	-5.63	115.73	122.15
1	gl	28	GLU	N-CA-CB	5.63	118.09	110.10
1	gu	178	SER	CA-C-O	5.63	127.52	121.55
1	gx	183	ASN	O-C-N	-5.63	116.27	122.07
1	gR	148	THR	CA-C-N	5.63	132.29	121.54
1	gR	148	THR	C-N-CA	5.63	132.29	121.54
1	hK	230	VAL	O-C-N	-5.63	117.18	123.26
1	i1	171	THR	CB-CA-C	-5.63	102.04	110.88
1	i7	124	ILE	CA-CB-CG1	5.63	119.97	110.40
1	ib	15	ILE	O-C-N	-5.63	116.93	122.67
1	ie	32	PHE	CB-CG-CD2	-5.63	111.13	120.70
1	im	115	ILE	O-C-N	5.63	127.63	121.83
1	ip	78	ALA	O-C-N	-5.63	115.73	122.15
1	iK	41	SER	CA-C-O	5.63	126.52	120.55
1	j5	105	ALA	N-CA-CB	-5.63	101.55	110.28
1	jd	119	THR	CA-C-N	5.63	128.70	120.71
1	jd	119	THR	C-N-CA	5.63	128.70	120.71
1	jh	205	LEU	CA-C-N	5.63	130.71	121.87
1	jh	205	LEU	C-N-CA	5.63	130.71	121.87
1	k3	132	ARG	N-CA-C	5.63	117.09	111.07
1	ka	162	ARG	NE-CZ-NH2	-5.63	114.13	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	4	GLN	N-CA-C	5.63	118.71	109.76
1	ko	167	ARG	N-CA-C	5.63	117.42	111.28
1	kz	44	SER	O-C-N	-5.63	115.33	122.26
1	kX	81	ASP	O-C-N	-5.63	115.73	122.15
1	l5	132	ARG	CA-C-N	5.63	127.82	120.28
1	l5	132	ARG	C-N-CA	5.63	127.82	120.28
1	lm	78	ALA	CA-C-N	5.63	128.87	120.31
1	lm	78	ALA	C-N-CA	5.63	128.87	120.31
1	lI	210	THR	N-CA-C	5.63	118.01	110.35
1	2H	105	ALA	N-CA-C	5.63	119.77	113.01
1	3d	71	GLU	CA-C-N	5.63	127.82	120.28
1	3d	71	GLU	C-N-CA	5.63	127.82	120.28
1	3j	183	ASN	O-C-N	-5.63	116.27	122.07
1	3n	48	THR	CA-CB-OG1	5.63	118.05	109.60
1	3M	134	ILE	O-C-N	-5.63	116.03	121.83
1	3N	19	THR	CA-C-O	-5.63	114.90	120.70
1	4h	198	CYS	N-CA-CB	-5.63	101.89	110.33
1	50	176	GLN	CB-CG-CD	-5.63	103.03	112.60
1	5s	114	GLN	O-C-N	5.63	128.09	122.12
1	5u	120	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	5L	201	ILE	CA-C-O	5.63	126.55	120.47
1	67	211	LEU	CA-C-N	5.63	128.14	120.54
1	67	211	LEU	C-N-CA	5.63	128.14	120.54
1	6N	226	HIS	CG-CD2-NE2	5.63	112.83	107.20
1	7G	92	GLU	CA-C-N	5.63	126.88	119.84
1	7G	92	GLU	C-N-CA	5.63	126.88	119.84
1	7J	15	ILE	CB-CA-C	5.63	119.05	111.28
1	7R	106	GLY	CA-C-O	5.63	125.01	119.04
1	7Z	229	ARG	CA-CB-CG	5.63	125.36	114.10
1	96	124	ILE	CA-CB-CG2	5.63	120.07	110.50
1	9e	188	THR	N-CA-CB	5.63	120.00	110.49
1	9E	80	TRP	O-C-N	-5.63	116.15	122.12
1	9V	64	ALA	N-CA-C	-5.63	106.25	113.23
1	9Y	18	ARG	CA-C-O	5.63	126.44	119.97
1	Z	108	THR	O-C-N	-5.63	115.56	122.20
1	a3	33	SER	O-C-N	-5.63	118.11	121.71
1	ah	153	ILE	N-CA-C	5.63	115.44	106.88
1	aE	79	GLU	O-C-N	-5.63	115.63	122.22
1	bq	124	ILE	O-C-N	-5.63	115.74	120.92
1	bM	121	ASN	CB-CA-C	5.63	117.67	110.13
1	c2	81	ASP	O-C-N	-5.63	116.27	122.07
1	c7	113	GLU	N-CA-C	5.63	117.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d0	120	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	d4	67	GLN	N-CA-C	5.63	117.42	111.28
1	df	89	GLY	CA-C-N	5.63	126.88	119.84
1	df	89	GLY	C-N-CA	5.63	126.88	119.84
1	dK	4	GLN	CB-CA-C	5.63	120.12	111.39
1	dK	206	GLY	CA-C-N	5.63	126.00	119.47
1	dK	206	GLY	C-N-CA	5.63	126.00	119.47
1	dU	105	ALA	CB-CA-C	5.63	120.14	110.01
1	dW	183	ASN	CA-CB-CG	-5.63	106.97	112.60
1	ef	220	GLY	CA-C-N	5.63	128.04	120.50
1	ef	220	GLY	C-N-CA	5.63	128.04	120.50
1	ej	80	TRP	CB-CG-CD1	-5.63	118.45	126.90
1	eF	167	ARG	CA-C-N	5.63	128.39	120.28
1	eF	167	ARG	C-N-CA	5.63	128.39	120.28
1	eV	186	THR	O-C-N	-5.63	116.23	122.09
1	fq	26	VAL	N-CA-CB	5.63	118.20	110.54
1	1A	69	LEU	O-C-N	-5.63	116.01	122.09
1	g2	114	GLN	OE1-CD-NE2	5.63	128.23	122.60
1	A	146	SER	CA-C-O	-5.63	114.46	119.75
1	A	154	ARG	NE-CZ-NH2	5.63	124.27	119.20
1	3	104	ILE	O-C-N	-5.63	116.41	121.87
1	gj	173	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	gw	33	SER	CA-CB-OG	5.63	122.36	111.10
1	gD	60	GLY	O-C-N	-5.63	116.73	122.19
1	1F	179	GLN	N-CA-C	5.63	118.14	111.33
1	gS	2	ILE	O-C-N	-5.63	117.18	123.26
1	gW	12	HIS	CA-C-O	-5.63	115.42	121.56
1	gW	101	GLY	N-CA-C	5.63	119.03	112.50
1	h3	55	MET	N-CA-C	5.63	117.42	111.28
1	h7	66	MET	O-C-N	-5.63	116.15	122.12
1	hb	89	GLY	O-C-N	-5.63	116.14	121.77
1	hc	224	PRO	N-CA-CB	5.63	107.80	103.30
1	1J	210	THR	CA-C-N	5.63	127.82	120.28
1	1J	210	THR	C-N-CA	5.63	127.82	120.28
1	hA	93	PRO	N-CA-CB	5.63	108.20	103.25
1	hG	99	PRO	CA-C-N	5.63	132.47	121.66
1	hG	99	PRO	C-N-CA	5.63	132.47	121.66
1	hG	165	VAL	O-C-N	-5.63	116.41	121.87
1	hK	120	HIS	ND1-CG-CD2	-5.63	100.47	106.10
1	hQ	132	ARG	N-CA-C	5.63	117.50	111.36
1	hU	66	MET	O-C-N	-5.63	116.15	122.12
1	in	189	LEU	N-CA-C	5.63	117.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	67	GLN	OE1-CD-NE2	5.63	128.23	122.60
1	iB	13	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	iE	1	PRO	N-CA-CB	5.63	109.19	103.00
1	iL	183	ASN	CA-C-O	5.63	126.52	120.55
1	iO	61	GLY	CA-C-N	5.63	130.95	122.68
1	iO	61	GLY	C-N-CA	5.63	130.95	122.68
1	iV	193	ASN	CA-C-N	5.63	131.22	120.97
1	iV	193	ASN	C-N-CA	5.63	131.22	120.97
1	j0	184	TRP	N-CA-C	5.63	117.42	111.28
1	j4	220	GLY	CA-C-N	5.63	128.17	120.46
1	j4	220	GLY	C-N-CA	5.63	128.17	120.46
1	j8	221	VAL	N-CA-C	5.63	116.32	108.89
1	jh	16	SER	CA-C-N	5.63	126.88	119.84
1	jh	16	SER	C-N-CA	5.63	126.88	119.84
1	ji	72	THR	N-CA-CB	5.63	118.39	110.12
1	jp	25	LYS	CA-C-N	5.63	127.65	120.56
1	jp	25	LYS	C-N-CA	5.63	127.65	120.56
1	jq	154	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	jq	173	ARG	N-CA-C	5.63	117.41	111.28
1	jG	176	GLN	N-CA-C	-5.63	106.40	113.72
1	k0	180	GLU	CA-C-N	5.63	128.17	120.46
1	k0	180	GLU	C-N-CA	5.63	128.17	120.46
1	k2	214	MET	O-C-N	-5.63	116.15	122.12
1	k7	103	ASP	CA-CB-CG	-5.63	106.97	112.60
1	k9	169	TYR	N-CA-CB	5.63	118.97	110.30
1	kt	143	ARG	N-CA-CB	-5.63	101.56	110.28
1	kB	50	GLN	CA-C-O	5.63	126.52	120.55
1	kD	110	THR	CA-CB-CG2	5.63	120.07	110.50
1	kN	51	ASP	N-CA-C	-5.63	105.22	111.36
1	l2	207	PRO	N-CA-C	5.63	124.07	112.47
1	li	204	ALA	N-CA-C	-5.63	106.25	113.23
1	lo	54	THR	N-CA-C	5.63	117.09	111.07
1	lr	122	PRO	CB-CG-CD	-5.63	92.45	105.40
1	ls	16	SER	N-CA-CB	5.63	117.89	110.29
1	lB	75	GLU	O-C-N	-5.63	115.73	122.15
1	2c	85	PRO	O-C-N	-5.63	117.06	123.03
1	2M	137	GLY	CA-C-O	-5.63	115.25	121.05
1	3c	121	ASN	CB-CA-C	5.63	119.46	110.62
1	3m	43	LEU	CA-C-O	5.63	126.52	120.55
1	3s	108	THR	CA-CB-OG1	5.63	118.04	109.60
1	3y	87	HIS	CB-CG-CD2	-5.63	123.88	131.20
1	3A	100	ARG	CA-C-N	5.63	126.19	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3A	100	ARG	C-N-CA	5.63	126.19	120.00
1	3K	228	ALA	O-C-N	-5.63	115.57	123.11
1	3T	48	THR	CA-CB-CG2	-5.63	100.93	110.50
1	42	179	GLN	CA-C-N	5.63	127.82	120.28
1	42	179	GLN	C-N-CA	5.63	127.82	120.28
1	47	63	GLN	N-CA-C	5.63	117.42	111.28
1	4k	25	LYS	CA-C-O	5.63	126.52	120.55
1	4H	227	LYS	O-C-N	-5.63	115.57	123.11
1	59	110	THR	N-CA-CB	5.63	119.00	110.45
1	59	198	CYS	CA-C-N	5.63	128.14	120.54
1	59	198	CYS	C-N-CA	5.63	128.14	120.54
1	5f	187	GLU	CA-C-O	5.63	127.26	121.07
1	5l	133	TRP	CA-C-N	5.63	127.65	120.56
1	5l	133	TRP	C-N-CA	5.63	127.65	120.56
1	5v	62	HIS	N-CA-C	5.63	122.79	110.80
1	5z	7	GLN	N-CA-C	5.63	120.84	113.30
1	5D	220	GLY	CA-C-N	5.63	130.63	121.62
1	5D	220	GLY	C-N-CA	5.63	130.63	121.62
1	5E	113	GLU	CA-C-N	5.63	127.82	120.28
1	5E	113	GLU	C-N-CA	5.63	127.82	120.28
1	5O	108	THR	CA-C-O	5.63	125.82	119.18
1	5P	25	LYS	N-CA-CB	5.63	118.49	110.16
1	5T	225	GLY	N-CA-C	-5.63	106.41	115.08
1	5Z	33	SER	CA-C-O	-5.63	114.91	120.26
1	62	137	GLY	O-C-N	-5.63	116.79	122.19
1	65	210	THR	CA-C-N	5.63	127.82	120.28
1	65	210	THR	C-N-CA	5.63	127.82	120.28
1	6b	129	ILE	CA-C-N	5.63	127.82	120.28
1	6b	129	ILE	C-N-CA	5.63	127.82	120.28
1	6k	169	TYR	O-C-N	-5.63	115.64	122.22
1	6o	57	ASN	N-CA-C	-5.63	106.08	113.17
1	6z	191	VAL	O-C-N	-5.63	114.82	122.14
1	6G	69	LEU	O-C-N	-5.63	116.18	122.03
1	6H	68	MET	CA-C-N	5.63	127.82	120.28
1	6H	68	MET	C-N-CA	5.63	127.82	120.28
1	6M	56	LEU	N-CA-C	5.63	117.42	111.28
1	6P	115	ILE	N-CA-C	5.63	116.41	110.72
1	6V	154	ARG	CA-C-O	5.63	127.69	121.11
1	71	81	ASP	CA-C-N	5.63	127.76	120.44
1	71	81	ASP	C-N-CA	5.63	127.76	120.44
1	75	40	PHE	O-C-N	-5.63	115.64	122.22
1	7d	168	PHE	CA-C-N	5.63	128.09	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	168	PHE	C-N-CA	5.63	128.09	120.38
1	7m	18	ARG	N-CA-C	5.63	117.42	111.28
1	7C	138	LEU	CA-C-N	5.63	127.82	120.28
1	7C	138	LEU	C-N-CA	5.63	127.82	120.28
1	7F	139	ASN	N-CA-C	5.63	117.42	111.28
1	7G	141	ILE	CA-C-N	5.63	127.65	120.56
1	7G	141	ILE	C-N-CA	5.63	127.65	120.56
1	7U	9	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	85	184	TRP	CB-CG-CD1	-5.63	118.46	126.90
1	8o	105	ALA	CA-C-N	5.63	133.50	121.18
1	8o	105	ALA	C-N-CA	5.63	133.50	121.18
1	8s	10	MET	CG-SD-CE	-5.63	88.52	100.90
1	8A	58	THR	N-CA-C	5.63	118.14	111.33
1	8A	163	ASP	CA-C-N	5.63	127.76	120.44
1	8A	163	ASP	C-N-CA	5.63	127.76	120.44
1	9b	183	ASN	CB-CA-C	5.63	119.72	110.88
1	9m	81	ASP	CA-CB-CG	5.63	118.23	112.60
1	9N	221	VAL	CA-C-N	5.63	129.73	121.96
1	9N	221	VAL	C-N-CA	5.63	129.73	121.96
1	9W	177	ALA	CA-C-O	5.63	128.56	120.51
1	9X	154	ARG	CA-C-N	5.63	129.55	121.50
1	9X	154	ARG	C-N-CA	5.63	129.55	121.50
1	a4	162	ARG	N-CA-CB	-5.63	101.85	110.01
1	ah	148	THR	CA-CB-CG2	-5.63	100.93	110.50
1	aH	174	ALA	O-C-N	-5.63	116.27	122.07
1	aI	92	GLU	O-C-N	5.63	127.10	121.30
1	aI	171	THR	CA-CB-CG2	5.63	120.07	110.50
1	aL	17	PRO	N-CA-C	5.63	124.07	112.47
1	14	13	GLN	N-CA-CB	5.63	120.14	110.68
1	aO	18	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	b0	109	SER	O-C-N	-5.63	116.60	123.30
1	b1	42	ALA	N-CA-C	5.63	117.42	111.28
1	bk	97	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	bx	37	ILE	CA-C-N	5.63	125.30	119.05
1	bx	37	ILE	C-N-CA	5.63	125.30	119.05
1	by	171	THR	CB-CA-C	-5.63	99.42	110.11
1	bK	87	HIS	N-CA-CB	5.63	118.93	109.92
1	bU	65	ALA	N-CA-CB	-5.63	101.91	110.07
1	bY	91	ILE	CB-CA-C	5.63	117.77	110.96
1	c1	62	HIS	CB-CG-CD2	-5.63	123.88	131.20
1	ce	35	GLU	CA-C-N	5.63	129.36	120.47
1	ce	35	GLU	C-N-CA	5.63	129.36	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cp	87	HIS	CA-C-N	5.63	129.09	120.82
1	cp	87	HIS	C-N-CA	5.63	129.09	120.82
1	1f	219	GLN	N-CA-C	5.63	118.39	110.23
1	cF	41	SER	CB-CA-C	-5.63	101.28	110.85
1	cI	32	PHE	CA-CB-CG	-5.63	108.17	113.80
1	cQ	126	VAL	CA-C-N	5.63	126.19	120.00
1	cQ	126	VAL	C-N-CA	5.63	126.19	120.00
1	cW	209	ALA	CA-C-N	5.63	128.70	120.71
1	cW	209	ALA	C-N-CA	5.63	128.70	120.71
1	d5	143	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	df	143	ARG	NH1-CZ-NH2	5.63	126.62	119.30
1	dj	53	ASN	CA-CB-CG	-5.63	106.97	112.60
1	dA	82	ARG	CA-C-N	5.63	128.09	120.44
1	dA	82	ARG	C-N-CA	5.63	128.09	120.44
1	dC	18	ARG	NE-CZ-NH2	5.63	124.27	119.20
1	dR	87	HIS	CG-CD2-NE2	5.63	112.83	107.20
1	e9	38	PRO	CA-C-O	-5.63	111.58	119.74
1	es	167	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	es	179	GLN	N-CA-C	5.63	118.14	111.33
1	eu	78	ALA	CB-CA-C	-5.63	102.04	110.88
1	eu	84	HIS	O-C-N	-5.63	116.17	121.35
1	ey	7	GLN	CA-CB-CG	5.63	125.36	114.10
1	eB	184	TRP	O-C-N	-5.63	115.73	122.15
1	eC	162	ARG	CA-C-O	-5.63	114.91	120.82
1	1s	10	MET	N-CA-C	5.63	118.88	111.28
1	eG	58	THR	N-CA-C	5.63	117.09	111.07
1	eM	204	ALA	CA-C-N	5.63	128.28	120.29
1	eM	204	ALA	C-N-CA	5.63	128.28	120.29
1	eP	9	GLN	O-C-N	-5.63	116.01	122.93
1	f6	82	ARG	CB-CA-C	-5.63	102.04	110.88
1	f6	214	MET	N-CA-CB	-5.63	101.85	110.01
1	fb	193	ASN	N-CA-CB	-5.63	101.92	110.92
1	fC	87	HIS	O-C-N	-5.63	116.31	123.06
1	fL	186	THR	CA-C-N	5.63	128.28	120.29
1	fL	186	THR	C-N-CA	5.63	128.28	120.29
1	fM	114	GLN	N-CA-C	5.63	117.50	111.36
1	fX	82	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	g4	51	ASP	N-CA-C	5.63	117.50	111.36
1	g7	138	LEU	N-CA-C	5.63	118.35	111.82
1	g7	176	GLN	CA-C-O	5.63	126.76	119.95
1	u	219	GLN	N-CA-C	5.63	117.39	108.67
1	w	198	CYS	CA-C-O	-5.63	114.58	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	169	TYR	CA-C-N	5.63	128.09	120.38
1	F	169	TYR	C-N-CA	5.63	128.09	120.38
1	R	111	LEU	CA-C-N	5.63	127.82	120.28
1	R	111	LEU	C-N-CA	5.63	127.82	120.28
1	T	226	HIS	CG-CD2-NE2	5.63	112.83	107.20
1	6	50	GLN	CB-CA-C	-5.63	102.04	110.88
1	gk	18	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	gs	130	TYR	N-CA-CB	5.63	118.39	110.12
1	gt	226	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	gD	3	VAL	O-C-N	-5.63	117.18	123.26
1	1G	215	MET	N-CA-C	-5.63	106.08	113.17
1	gZ	57	ASN	CA-CB-CG	5.63	118.23	112.60
1	h0	13	GLN	CA-C-O	5.63	128.02	121.44
1	1H	124	ILE	CA-C-O	-5.63	112.41	119.95
1	h8	183	ASN	N-CA-C	5.63	117.41	111.28
1	hg	47	ALA	N-CA-C	5.63	118.39	110.23
1	hh	78	ALA	CA-C-O	-5.63	114.46	120.42
1	hi	182	LYS	N-CA-C	5.63	117.41	111.28
1	ho	168	PHE	N-CA-C	-5.63	105.15	111.28
1	hH	12	HIS	CA-CB-CG	-5.63	108.17	113.80
1	i2	58	THR	CA-CB-OG1	5.63	118.04	109.60
1	if	156	GLY	CA-C-N	5.63	124.98	118.85
1	if	156	GLY	C-N-CA	5.63	124.98	118.85
1	ix	145	TYR	CA-CB-CG	-5.63	103.77	113.90
1	iF	110	THR	O-C-N	-5.63	116.17	122.75
1	iZ	162	ARG	NE-CZ-NH2	-5.63	114.14	119.20
1	j5	140	LYS	CA-C-N	5.63	127.86	120.60
1	j5	140	LYS	C-N-CA	5.63	127.86	120.60
1	jo	89	GLY	CA-C-N	5.63	126.87	119.84
1	jo	89	GLY	C-N-CA	5.63	126.87	119.84
1	jo	126	VAL	N-CA-C	5.63	116.27	110.36
1	jx	1	PRO	CB-CA-C	5.63	120.79	110.10
1	jx	228	ALA	N-CA-C	5.63	117.79	110.53
1	jy	145	TYR	N-CA-C	5.63	117.09	111.07
1	jC	211	LEU	CA-C-N	5.63	127.82	120.28
1	jC	211	LEU	C-N-CA	5.63	127.82	120.28
1	jL	159	GLU	CA-CB-CG	-5.63	102.85	114.10
1	jO	167	ARG	CA-C-N	5.63	127.75	120.44
1	jO	167	ARG	C-N-CA	5.63	127.75	120.44
1	jT	185	MET	CG-SD-CE	-5.63	88.52	100.90
1	kb	62	HIS	CA-C-O	5.63	129.12	122.14
1	kc	136	LEU	CA-C-N	5.63	126.23	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	136	LEU	C-N-CA	5.63	126.23	119.98
1	kl	154	ARG	NH1-CZ-NH2	-5.63	111.99	119.30
1	ko	180	GLU	N-CA-C	5.63	117.49	111.36
1	kt	162	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	kw	161	PHE	O-C-N	-5.63	116.24	122.09
1	kF	160	PRO	CA-C-O	-5.63	114.88	122.08
1	kR	139	ASN	N-CA-C	5.63	117.09	111.07
1	kT	12	HIS	CA-CB-CG	-5.63	108.17	113.80
1	kU	12	HIS	CA-C-N	5.63	130.76	123.00
1	kU	12	HIS	C-N-CA	5.63	130.76	123.00
1	kW	10	MET	CA-C-N	5.63	130.91	122.58
1	kW	10	MET	C-N-CA	5.63	130.91	122.58
1	lc	37	ILE	CA-C-O	5.63	122.46	118.69
1	ll	22	ALA	CA-C-O	5.63	126.51	120.55
1	ly	179	GLN	N-CA-C	5.63	120.65	111.37
1	lL	75	GLU	N-CA-C	5.63	117.41	111.28
1	lO	18	ARG	CA-C-O	5.63	126.52	120.55
1	lO	173	ARG	N-CA-C	5.63	117.41	111.28
1	2g	188	THR	CA-C-N	5.63	128.28	120.29
1	2g	188	THR	C-N-CA	5.63	128.28	120.29
1	2l	146	SER	N-CA-C	5.63	122.25	109.81
1	2R	4	GLN	O-C-N	-5.63	115.95	122.87
1	3q	73	ILE	CA-C-N	5.63	128.28	120.29
1	3q	73	ILE	C-N-CA	5.63	128.28	120.29
1	3t	199	LYS	CB-CA-C	5.63	119.81	110.81
1	3P	186	THR	CA-C-O	5.63	126.51	120.55
1	3V	57	ASN	CA-CB-CG	5.63	118.23	112.60
1	46	92	GLU	CA-C-N	5.63	125.16	119.19
1	46	92	GLU	C-N-CA	5.63	125.16	119.19
1	4r	182	LYS	CB-CA-C	-5.63	101.45	110.79
1	4s	181	VAL	CA-C-O	-5.63	114.89	120.85
1	4u	194	ALA	N-CA-C	5.63	117.55	110.24
1	4S	15	ILE	O-C-N	-5.63	116.64	122.66
1	59	25	LYS	N-CA-CB	5.63	118.39	110.12
1	5c	97	ARG	NE-CZ-NH2	-5.63	114.14	119.20
1	5n	142	VAL	N-CA-C	5.63	117.03	110.62
1	5G	27	VAL	N-CA-C	5.63	115.82	110.42
1	5G	70	LYS	N-CA-C	5.63	118.14	111.33
1	5K	57	ASN	OD1-CG-ND2	-5.63	116.97	122.60
1	5P	148	THR	CA-CB-OG1	-5.63	101.16	109.60
1	5U	17	PRO	CA-C-N	5.63	127.82	120.28
1	5U	17	PRO	C-N-CA	5.63	127.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	143	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	5Z	153	ILE	N-CA-CB	5.63	117.23	110.31
1	6g	195	ASN	CA-CB-CG	5.63	118.23	112.60
1	6k	116	GLY	CA-C-N	5.63	127.82	120.28
1	6k	116	GLY	C-N-CA	5.63	127.82	120.28
1	6m	113	GLU	N-CA-C	5.63	117.41	111.28
1	6D	82	ARG	CD-NE-CZ	-5.63	116.52	124.40
1	6I	219	GLN	O-C-N	-5.63	116.38	122.79
1	6P	187	GLU	N-CA-C	5.63	117.09	111.07
1	6T	187	GLU	O-C-N	-5.63	114.22	122.43
1	79	158	LYS	O-C-N	-5.63	115.35	122.27
1	7b	135	ILE	CA-C-O	5.63	126.80	120.95
1	7B	88	ALA	CA-C-N	5.63	130.71	121.87
1	7B	88	ALA	C-N-CA	5.63	130.71	121.87
1	7E	229	ARG	O-C-N	-5.63	114.22	122.43
1	8a	136	LEU	N-CA-CB	5.63	118.39	110.12
1	8b	12	HIS	O-C-N	-5.63	116.37	123.01
1	8e	186	THR	O-C-N	-5.63	115.74	122.15
1	8k	80	TRP	CB-CG-CD1	-5.63	118.46	126.90
1	8m	173	ARG	O-C-N	-5.63	115.74	122.15
1	8A	177	ALA	CA-C-N	5.63	128.70	120.71
1	8A	177	ALA	C-N-CA	5.63	128.70	120.71
1	8K	62	HIS	ND1-CG-CD2	5.63	111.73	106.10
1	8M	116	GLY	CA-C-N	5.63	128.09	120.44
1	8M	116	GLY	C-N-CA	5.63	128.09	120.44
1	97	99	PRO	N-CD-CG	5.63	111.64	103.20
1	9j	122	PRO	CA-C-N	5.63	125.64	119.90
1	9j	122	PRO	C-N-CA	5.63	125.64	119.90
1	9z	174	ALA	N-CA-CB	-5.63	101.83	110.16
1	9I	119	THR	CA-C-N	5.63	129.25	120.75
1	9I	119	THR	C-N-CA	5.63	129.25	120.75
1	9J	9	GLN	N-CA-C	5.63	118.17	110.24
1	9P	159	GLU	CA-C-O	-5.63	114.75	119.76
1	9T	227	LYS	CA-C-O	5.63	128.56	120.51
1	a4	221	VAL	N-CA-C	5.63	117.28	109.80
1	a8	130	TYR	O-C-N	-5.63	116.27	122.07
1	11	169	TYR	CB-CG-CD2	-5.63	112.36	120.80
1	az	100	ARG	NE-CZ-NH2	-5.63	114.14	119.20
1	b3	49	PRO	O-C-N	-5.63	115.77	122.24
1	b4	177	ALA	N-CA-C	5.63	118.39	110.23
1	16	12	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	bj	130	TYR	CA-C-N	5.63	128.13	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bj	130	TYR	C-N-CA	5.63	128.13	120.54
1	bl	126	VAL	CA-C-N	5.63	127.17	120.14
1	bl	126	VAL	C-N-CA	5.63	127.17	120.14
1	bl	154	ARG	NE-CZ-NH1	-5.63	115.87	121.50
1	bp	127	GLY	CA-C-N	5.63	127.82	120.28
1	bp	127	GLY	C-N-CA	5.63	127.82	120.28
1	19	59	VAL	O-C-N	-5.63	116.64	122.66
1	bF	26	VAL	CA-CB-CG1	5.63	119.97	110.40
1	bH	45	GLU	N-CA-C	5.63	117.41	111.28
1	bH	190	LEU	N-CA-CB	-5.63	101.62	110.06
1	bM	110	THR	CA-C-N	5.63	129.26	120.82
1	bM	110	THR	C-N-CA	5.63	129.26	120.82
1	bN	37	ILE	CA-C-O	5.63	122.46	118.69
1	bU	50	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	bU	217	ALA	N-CA-C	5.63	118.39	110.23
1	bX	92	GLU	CA-C-N	5.63	125.64	119.90
1	bX	92	GLU	C-N-CA	5.63	125.64	119.90
1	c0	226	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	c5	119	THR	CA-C-O	5.63	126.24	119.43
1	cc	115	ILE	CA-C-N	5.63	127.43	120.34
1	cc	115	ILE	C-N-CA	5.63	127.43	120.34
1	cd	82	ARG	O-C-N	-5.63	115.35	122.27
1	co	125	PRO	CA-C-N	5.63	127.76	120.56
1	co	125	PRO	C-N-CA	5.63	127.76	120.56
1	cs	176	GLN	OE1-CD-NE2	-5.63	116.97	122.60
1	cx	63	GLN	CA-C-O	-5.63	114.55	120.63
1	cz	39	MET	N-CA-CB	5.63	118.39	110.12
1	cK	24	VAL	N-CA-C	5.63	115.82	110.42
1	cN	226	HIS	ND1-CE1-NE2	5.63	114.03	108.40
1	1i	228	ALA	CB-CA-C	-5.63	101.45	110.79
1	di	64	ALA	N-CA-C	5.63	117.09	111.07
1	dj	81	ASP	N-CA-C	5.63	117.86	111.11
1	dl	26	VAL	N-CA-CB	5.63	119.02	110.58
1	dA	130	TYR	CB-CA-C	5.63	119.71	110.88
1	dC	39	MET	CA-C-N	5.63	127.82	120.28
1	dC	39	MET	C-N-CA	5.63	127.82	120.28
1	dC	110	THR	O-C-N	-5.63	116.31	122.84
1	dL	130	TYR	CB-CA-C	5.63	121.04	110.63
1	e7	179	GLN	CG-CD-OE1	5.63	132.05	120.80
1	ek	154	ARG	NE-CZ-NH1	5.63	127.13	121.50
1	1q	11	VAL	O-C-N	-5.63	115.58	122.61
1	em	38	PRO	CA-C-N	5.63	127.82	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	38	PRO	C-N-CA	5.63	127.82	120.28
1	en	10	MET	N-CA-C	5.63	117.55	110.24
1	1r	144	MET	O-C-N	-5.63	116.16	122.12
1	eF	171	THR	CA-C-O	-5.63	115.09	121.00
1	1s	87	HIS	CB-CA-C	-5.63	100.67	109.84
1	eH	196	PRO	N-CA-C	5.63	124.06	112.47
1	eX	124	ILE	N-CA-CB	-5.63	103.92	111.40
1	fg	127	GLY	CA-C-N	5.63	128.86	120.31
1	fg	127	GLY	C-N-CA	5.63	128.86	120.31
1	fj	109	SER	N-CA-C	5.63	118.65	109.59
1	1w	68	MET	CA-C-N	5.63	127.75	120.44
1	1w	68	MET	C-N-CA	5.63	127.75	120.44
1	fk	186	THR	CA-C-O	-5.63	114.59	120.55
1	fp	80	TRP	CA-CB-CG	5.63	124.29	113.60
1	ft	115	ILE	CA-C-O	5.63	126.59	120.57
1	ft	214	MET	CG-SD-CE	-5.63	88.52	100.90
1	fv	161	PHE	CA-C-N	5.63	129.26	120.82
1	fv	161	PHE	C-N-CA	5.63	129.26	120.82
1	fx	128	GLU	CA-C-O	-5.63	114.46	120.42
1	fx	196	PRO	N-CA-C	5.63	124.06	112.47
1	1z	98	GLU	CA-C-O	-5.63	114.48	120.28
1	fZ	11	VAL	O-C-N	-5.63	116.99	123.07
1	fZ	20	LEU	N-CA-C	5.63	117.41	111.28
1	z	125	PRO	O-C-N	-5.63	115.51	122.26
1	C	186	THR	N-CA-C	5.63	117.49	111.36
1	I	36	VAL	N-CA-C	5.63	116.36	110.62
1	P	98	GLU	O-C-N	-5.63	115.95	121.18
1	W	6	LEU	CA-C-N	5.63	132.29	121.54
1	W	6	LEU	C-N-CA	5.63	132.29	121.54
1	gq	106	GLY	O-C-N	-5.62	115.87	122.45
1	gt	214	MET	N-CA-CB	-5.62	101.56	110.28
1	gA	199	LYS	CA-C-O	5.62	126.51	120.55
1	gW	25	LYS	O-C-N	-5.62	115.35	122.27
1	1H	182	LYS	CA-C-N	5.62	128.28	120.29
1	1H	182	LYS	C-N-CA	5.62	128.28	120.29
1	hb	179	GLN	CA-C-N	5.62	127.82	120.28
1	hb	179	GLN	C-N-CA	5.62	127.82	120.28
1	he	109	SER	CA-C-N	5.62	128.83	120.90
1	he	109	SER	C-N-CA	5.62	128.83	120.90
1	hf	163	ASP	CA-C-N	5.62	127.82	120.28
1	hf	163	ASP	C-N-CA	5.62	127.82	120.28
1	hk	107	THR	N-CA-CB	5.62	119.22	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hL	110	THR	CA-C-N	5.62	127.82	120.28
1	hL	110	THR	C-N-CA	5.62	127.82	120.28
1	i0	103	ASP	CA-C-N	5.62	128.17	120.46
1	i0	103	ASP	C-N-CA	5.62	128.17	120.46
1	ia	112	GLN	OE1-CD-NE2	-5.62	116.97	122.60
1	iq	97	ARG	CG-CD-NE	-5.62	99.62	112.00
1	iq	212	GLU	O-C-N	-5.62	115.64	122.22
1	iv	84	HIS	N-CA-C	5.62	117.59	109.04
1	j4	55	MET	O-C-N	-5.62	116.16	122.12
1	jd	44	SER	N-CA-CB	5.62	119.45	110.73
1	1V	131	LYS	CA-C-N	5.62	127.82	120.28
1	1V	131	LYS	C-N-CA	5.62	127.82	120.28
1	jt	209	ALA	N-CA-C	5.62	118.22	110.35
1	jw	230	VAL	CA-C-O	5.62	127.48	121.97
1	jH	155	GLN	N-CA-C	5.62	118.40	109.96
1	k9	133	TRP	CA-CB-CG	5.62	124.29	113.60
1	22	153	ILE	CB-CA-C	-5.62	105.16	111.23
1	kE	170	LYS	N-CA-C	5.62	118.18	111.71
1	kE	196	PRO	N-CA-C	5.62	124.06	112.47
1	kJ	75	GLU	CA-C-O	-5.62	114.59	120.55
1	kM	86	VAL	CA-CB-CG1	5.62	119.96	110.40
1	l4	132	ARG	CA-C-N	5.62	127.75	120.44
1	l4	132	ARG	C-N-CA	5.62	127.75	120.44
1	lP	80	TRP	CA-C-O	-5.62	114.59	120.55
1	2y	220	GLY	CA-C-O	5.62	126.19	119.10
1	2X	9	GLN	N-CA-CB	5.62	118.24	109.97
1	3p	39	MET	CA-C-O	5.62	126.70	120.63
1	3t	57	ASN	CA-C-O	-5.62	114.59	120.55
1	3z	102	SER	N-CA-C	5.62	119.86	112.89
1	3P	103	ASP	CA-CB-CG	-5.62	106.97	112.60
1	48	208	ALA	CA-C-O	5.62	126.51	120.55
1	4H	43	LEU	N-CA-C	-5.62	106.42	113.28
1	4O	183	ASN	OD1-CG-ND2	-5.62	116.97	122.60
1	4P	161	PHE	CA-C-N	5.62	127.82	120.28
1	4P	161	PHE	C-N-CA	5.62	127.82	120.28
1	4P	169	TYR	N-CA-C	5.62	119.86	112.89
1	4V	45	GLU	N-CA-C	5.62	118.14	111.33
1	5a	119	THR	CA-C-N	5.62	132.28	121.54
1	5a	119	THR	C-N-CA	5.62	132.28	121.54
1	5b	130	TYR	CA-C-O	5.62	126.51	120.55
1	5b	162	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	5m	121	ASN	CA-C-O	-5.62	114.33	119.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5o	143	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	5Q	196	PRO	O-C-N	-5.62	115.77	122.24
1	61	104	ILE	N-CA-C	5.62	117.03	110.62
1	64	226	HIS	ND1-CE1-NE2	5.62	114.03	108.40
1	79	5	ASN	CA-CB-CG	5.62	118.22	112.60
1	7b	117	TRP	CD2-CE2-CZ2	-5.62	116.78	122.40
1	7i	178	SER	N-CA-C	5.62	118.22	110.35
1	7N	6	LEU	CA-C-N	5.62	131.42	121.80
1	7N	6	LEU	C-N-CA	5.62	131.42	121.80
1	8k	75	GLU	CA-C-N	5.62	127.75	120.44
1	8k	75	GLU	C-N-CA	5.62	127.75	120.44
1	8m	152	ASP	CA-CB-CG	5.62	118.22	112.60
1	8p	140	LYS	N-CA-CB	-5.62	101.85	110.12
1	8y	55	MET	O-C-N	-5.62	116.28	122.07
1	8G	22	ALA	CA-C-N	5.62	128.09	120.44
1	8G	22	ALA	C-N-CA	5.62	128.09	120.44
1	8T	67	GLN	N-CA-C	5.62	117.86	111.11
1	98	173	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	9J	46	GLY	N-CA-C	-5.62	107.48	115.30
1	a0	6	LEU	N-CA-C	5.62	117.41	111.28
1	a6	40	PHE	CA-C-N	5.62	127.75	120.44
1	a6	40	PHE	C-N-CA	5.62	127.75	120.44
1	a7	137	GLY	CA-C-N	5.62	128.13	120.54
1	a7	137	GLY	C-N-CA	5.62	128.13	120.54
1	b4	5	ASN	OD1-CG-ND2	-5.62	116.97	122.60
1	b7	199	LYS	N-CA-C	5.62	117.86	111.11
1	bl	70	LYS	N-CA-C	5.62	117.41	111.28
1	bZ	203	LYS	N-CA-C	5.62	117.09	111.07
1	cq	173	ARG	CA-C-N	5.62	128.09	120.44
1	cq	173	ARG	C-N-CA	5.62	128.09	120.44
1	cQ	108	THR	CA-CB-OG1	5.62	118.04	109.60
1	cS	214	MET	N-CA-C	5.62	117.41	111.28
1	d9	215	MET	CA-C-O	-5.62	113.74	120.10
1	dh	53	ASN	CA-CB-CG	-5.62	106.97	112.60
1	dT	195	ASN	CA-C-O	5.62	126.02	120.17
1	e6	171	THR	CA-C-N	5.62	127.82	120.28
1	e6	171	THR	C-N-CA	5.62	127.82	120.28
1	e8	18	ARG	O-C-N	-5.62	116.24	122.09
1	eh	77	ALA	O-C-N	-5.62	116.16	122.12
1	ei	222	GLY	N-CA-C	5.62	126.51	113.18
1	ew	191	VAL	CB-CA-C	-5.62	104.46	112.22
1	eA	87	HIS	O-C-N	-5.62	115.84	123.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fq	125	PRO	N-CA-C	-5.62	100.88	112.47
1	fB	155	GLN	CA-C-N	5.62	130.70	121.87
1	fB	155	GLN	C-N-CA	5.62	130.70	121.87
1	f	189	LEU	N-CA-C	5.62	117.86	111.11
1	s	95	GLN	OE1-CD-NE2	-5.62	116.97	122.60
1	3	169	TYR	CA-C-O	-5.62	114.46	120.42
1	P	24	VAL	CA-C-O	5.62	126.80	120.95
1	gw	40	PHE	O-C-N	-5.62	116.16	122.12
1	gy	37	ILE	N-CA-C	5.62	121.03	108.88
1	gz	12	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	gC	43	LEU	CA-C-O	5.62	126.38	120.42
1	gO	195	ASN	O-C-N	-5.62	115.25	121.66
1	h0	110	THR	CA-C-N	5.62	127.81	120.28
1	h0	110	THR	C-N-CA	5.62	127.81	120.28
1	h7	182	LYS	N-CA-C	5.62	118.18	111.71
1	hq	90	PRO	CA-C-N	5.62	129.42	121.66
1	hq	90	PRO	C-N-CA	5.62	129.42	121.66
1	hr	65	ALA	N-CA-C	5.62	118.18	111.71
1	hK	135	ILE	N-CA-C	5.62	116.36	110.62
1	hN	202	LEU	N-CA-C	5.62	117.49	111.36
1	hT	53	ASN	OD1-CG-ND2	5.62	128.22	122.60
1	i7	206	GLY	O-C-N	-5.62	116.15	121.77
1	ia	159	GLU	O-C-N	-5.62	115.46	121.42
1	if	200	THR	CA-CB-OG1	5.62	118.04	109.60
1	ij	208	ALA	CB-CA-C	5.62	120.97	109.55
1	1Q	13	GLN	O-C-N	-5.62	116.75	123.27
1	iG	93	PRO	CA-C-N	5.62	131.59	122.09
1	iG	93	PRO	C-N-CA	5.62	131.59	122.09
1	iR	179	GLN	CA-C-O	-5.62	114.88	120.90
1	j9	155	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	jv	123	PRO	CA-C-N	-5.62	117.24	123.43
1	jv	123	PRO	C-N-CA	-5.62	117.24	123.43
1	jH	183	ASN	CA-C-N	5.62	128.86	120.31
1	jH	183	ASN	C-N-CA	5.62	128.86	120.31
1	jW	188	THR	CA-CB-CG2	5.62	120.06	110.50
1	jY	82	ARG	N-CA-C	5.62	117.41	111.28
1	k4	107	THR	CA-C-O	5.62	126.51	120.55
1	20	115	ILE	CA-C-N	5.62	126.34	119.99
1	20	115	ILE	C-N-CA	5.62	126.34	119.99
1	ke	190	LEU	CA-C-N	5.62	127.64	120.56
1	ke	190	LEU	C-N-CA	5.62	127.64	120.56
1	kv	39	MET	CA-C-O	-5.62	115.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kB	51	ASP	N-CA-C	5.62	117.09	111.07
1	kF	86	VAL	CA-CB-CG1	5.62	119.96	110.40
1	25	31	ALA	N-CA-C	5.62	122.78	110.80
1	ln	22	ALA	CB-CA-C	-5.62	101.45	110.79
1	lp	128	GLU	N-CA-C	5.62	117.86	111.11
1	lp	138	LEU	CA-C-O	-5.62	114.91	120.70
1	lv	120	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	lx	168	PHE	CA-C-N	5.62	127.81	120.28
1	lx	168	PHE	C-N-CA	5.62	127.81	120.28
1	2c	205	LEU	CA-C-O	5.62	125.93	119.35
1	2f	149	SER	CA-C-N	5.62	129.35	120.47
1	2f	149	SER	C-N-CA	5.62	129.35	120.47
1	2o	26	VAL	CB-CA-C	-5.62	104.55	112.14
1	2v	16	SER	O-C-N	-5.62	114.50	121.64
1	2v	70	LYS	N-CA-C	5.62	117.41	111.28
1	2x	27	VAL	N-CA-C	5.62	118.08	111.05
1	2B	44	SER	N-CA-C	5.62	120.13	113.16
1	2F	96	MET	N-CA-C	5.62	118.00	110.35
1	2I	77	ALA	N-CA-C	5.62	117.41	111.28
1	2P	230	VAL	CA-C-O	-5.62	115.21	121.17
1	2U	184	TRP	N-CA-C	5.62	117.09	111.07
1	30	48	THR	CA-C-N	5.62	125.99	119.47
1	30	48	THR	C-N-CA	5.62	125.99	119.47
1	32	108	THR	N-CA-CB	5.62	120.83	111.49
1	34	36	VAL	O-C-N	-5.62	116.04	121.83
1	38	18	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	3H	56	LEU	O-C-N	-5.62	115.74	122.15
1	3N	110	THR	CB-CA-C	5.62	119.67	109.83
1	3S	180	GLU	CA-C-O	5.62	126.44	119.97
1	4h	210	THR	N-CA-C	5.62	117.80	110.43
1	4l	91	ILE	O-C-N	-5.62	116.57	123.09
1	4o	31	ALA	N-CA-C	5.62	116.32	108.00
1	4q	70	LYS	CA-C-N	5.62	127.81	120.28
1	4q	70	LYS	C-N-CA	5.62	127.81	120.28
1	4x	68	MET	CB-CA-C	5.62	120.12	110.79
1	4D	40	PHE	CA-C-N	5.62	127.75	120.44
1	4D	40	PHE	C-N-CA	5.62	127.75	120.44
1	4L	89	GLY	CA-C-N	5.62	126.87	119.84
1	4L	89	GLY	C-N-CA	5.62	126.87	119.84
1	4Q	140	LYS	O-C-N	-5.62	115.74	122.15
1	50	118	MET	N-CA-C	5.62	118.14	111.33
1	57	114	GLN	CG-CD-NE2	-5.62	107.96	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5c	26	VAL	CA-C-N	5.62	127.86	120.60
1	5c	26	VAL	C-N-CA	5.62	127.86	120.60
1	5j	4	GLN	N-CA-C	5.62	117.95	109.23
1	5v	195	ASN	CA-CB-CG	-5.62	106.98	112.60
1	5D	169	TYR	CB-CG-CD1	5.62	129.24	120.80
1	5U	126	VAL	N-CA-CB	5.62	118.19	110.54
1	5V	166	ASP	CA-C-N	5.62	127.75	120.44
1	5V	166	ASP	C-N-CA	5.62	127.75	120.44
1	61	210	THR	O-C-N	-5.62	116.61	122.96
1	69	187	GLU	N-CA-C	5.62	117.41	111.28
1	6g	3	VAL	N-CA-C	5.62	116.83	109.58
1	6x	199	LYS	CA-C-N	5.62	127.81	120.28
1	6x	199	LYS	C-N-CA	5.62	127.81	120.28
1	6B	148	THR	N-CA-C	5.62	118.60	110.28
1	6F	115	ILE	CA-C-O	5.62	126.32	120.25
1	6M	80	TRP	CB-CG-CD2	-5.62	118.93	126.80
1	75	161	PHE	N-CA-CB	5.62	118.16	110.01
1	7f	70	LYS	N-CA-C	5.62	117.09	111.07
1	7K	136	LEU	CA-C-N	5.62	126.18	119.94
1	7K	136	LEU	C-N-CA	5.62	126.18	119.94
1	7M	12	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	7M	27	VAL	CA-C-N	5.62	128.61	120.79
1	7M	27	VAL	C-N-CA	5.62	128.61	120.79
1	82	27	VAL	O-C-N	-5.62	116.40	121.91
1	82	136	LEU	CA-C-O	5.62	126.51	120.55
1	8a	50	GLN	CA-C-O	-5.62	114.46	120.42
1	8s	199	LYS	O-C-N	-5.62	116.06	122.08
1	8s	214	MET	CA-C-O	5.62	126.72	120.82
1	8w	229	ARG	N-CA-CB	5.62	118.29	109.69
1	8y	155	GLN	CB-CG-CD	5.62	122.16	112.60
1	8C	155	GLN	O-C-N	-5.62	116.01	122.93
1	8D	204	ALA	CA-C-N	5.62	128.28	120.29
1	8D	204	ALA	C-N-CA	5.62	128.28	120.29
1	8X	96	MET	CA-C-O	5.62	127.33	120.92
1	94	167	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	97	204	ALA	N-CA-C	-5.62	105.07	111.14
1	9j	103	ASP	CA-CB-CG	-5.62	106.98	112.60
1	9r	154	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	9y	180	GLU	CA-C-N	5.62	128.41	120.42
1	9y	180	GLU	C-N-CA	5.62	128.41	120.42
1	9R	179	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	a6	229	ARG	O-C-N	-5.62	115.37	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	af	124	ILE	N-CA-C	5.62	113.62	107.60
1	au	229	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	aG	221	VAL	CA-C-O	5.62	127.38	120.74
1	aH	8	GLY	CA-C-N	5.62	132.28	121.54
1	aH	8	GLY	C-N-CA	5.62	132.28	121.54
1	aJ	217	ALA	CA-C-O	-5.62	114.86	121.44
1	aV	203	LYS	CA-C-N	5.62	127.81	120.28
1	aV	203	LYS	C-N-CA	5.62	127.81	120.28
1	bm	84	HIS	CA-CB-CG	5.62	119.42	113.80
1	bK	139	ASN	CA-C-O	5.62	126.51	120.55
1	bO	169	TYR	CA-CB-CG	-5.62	103.78	113.90
1	bW	179	GLN	CG-CD-NE2	5.62	124.84	116.40
1	bW	223	GLY	CA-C-N	5.62	126.87	119.84
1	bW	223	GLY	C-N-CA	5.62	126.87	119.84
1	1d	25	LYS	CA-C-N	5.62	128.16	120.46
1	1d	25	LYS	C-N-CA	5.62	128.16	120.46
1	ck	102	SER	O-C-N	-5.62	116.16	122.12
1	cA	214	MET	CA-C-O	-5.62	114.56	120.63
1	cE	145	TYR	O-C-N	-5.62	114.38	122.36
1	cJ	113	GLU	CA-C-N	5.62	127.75	120.44
1	cJ	113	GLU	C-N-CA	5.62	127.75	120.44
1	cJ	156	GLY	O-C-N	-5.62	116.15	121.77
1	cU	53	ASN	CA-CB-CG	-5.62	106.98	112.60
1	cZ	126	VAL	CA-C-N	5.62	126.18	119.94
1	cZ	126	VAL	C-N-CA	5.62	126.18	119.94
1	1k	126	VAL	CA-C-N	5.62	126.07	119.94
1	1k	126	VAL	C-N-CA	5.62	126.07	119.94
1	dJ	122	PRO	N-CA-CB	5.62	108.79	102.60
1	dL	171	THR	N-CA-C	5.62	117.41	111.28
1	dV	153	ILE	N-CA-C	5.62	116.40	108.36
1	e2	179	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	e5	74	ASN	CA-C-N	5.62	128.27	120.29
1	e5	74	ASN	C-N-CA	5.62	128.27	120.29
1	ed	171	THR	CA-C-N	5.62	132.31	121.18
1	ed	171	THR	C-N-CA	5.62	132.31	121.18
1	er	18	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	f2	10	MET	CA-C-O	5.62	126.89	120.54
1	f3	209	ALA	N-CA-C	5.62	118.63	110.42
1	f7	179	GLN	CA-C-O	5.62	126.51	120.55
1	fb	178	SER	N-CA-CB	5.62	118.23	109.85
1	fc	124	ILE	N-CA-CB	5.62	118.15	111.23
1	fe	110	THR	CA-C-N	5.62	127.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fe	110	THR	C-N-CA	5.62	127.81	120.28
1	fk	87	HIS	O-C-N	-5.62	115.98	122.95
1	fw	145	TYR	N-CA-C	5.62	117.21	111.14
1	fy	95	GLN	O-C-N	-5.62	116.92	123.27
1	fR	96	MET	O-C-N	-5.62	116.41	123.27
1	fY	139	ASN	N-CA-C	5.62	117.41	111.28
1	fZ	155	GLN	N-CA-CB	5.62	118.40	109.51
1	g3	13	GLN	N-CA-C	-5.62	99.26	108.76
1	g5	196	PRO	N-CA-C	5.62	120.89	113.86
1	e	90	PRO	CA-C-N	5.62	129.52	120.30
1	e	90	PRO	C-N-CA	5.62	129.52	120.30
1	F	121	ASN	CB-CA-C	-5.62	102.26	110.13
1	K	165	VAL	O-C-N	-5.62	116.19	121.87
1	S	153	ILE	N-CA-C	5.62	116.96	109.37
1	gb	191	VAL	N-CA-C	5.62	117.03	110.62
1	gi	37	ILE	CA-C-N	5.62	124.98	118.85
1	gi	37	ILE	C-N-CA	5.62	124.98	118.85
1	gr	80	TRP	O-C-N	-5.62	116.16	122.12
1	gt	162	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	gG	186	THR	OG1-CB-CG2	-5.62	98.06	109.30
1	gM	142	VAL	O-C-N	-5.62	116.38	121.89
1	gO	61	GLY	N-CA-C	5.62	119.78	112.25
1	hb	15	ILE	N-CA-C	5.62	118.66	109.78
1	hf	132	ARG	O-C-N	-5.62	116.28	122.07
1	hl	5	ASN	O-C-N	5.62	128.16	122.09
1	hu	84	HIS	CA-C-O	5.62	124.76	119.76
1	hC	34	PRO	O-C-N	5.62	130.23	122.64
1	hL	140	LYS	N-CA-C	5.62	117.41	111.28
1	hQ	207	PRO	N-CA-C	-5.62	107.32	114.35
1	hT	81	ASP	CA-C-N	5.62	127.81	120.28
1	hT	81	ASP	C-N-CA	5.62	127.81	120.28
1	1M	192	GLN	N-CA-CB	5.62	118.96	110.30
1	i1	113	GLU	CA-C-N	5.62	127.75	120.44
1	i1	113	GLU	C-N-CA	5.62	127.75	120.44
1	i4	143	ARG	O-C-N	-5.62	116.16	122.12
1	i5	215	MET	O-C-N	-5.62	114.22	122.43
1	1O	7	GLN	CA-C-N	5.62	130.88	122.05
1	1O	7	GLN	C-N-CA	5.62	130.88	122.05
1	ih	37	ILE	CA-CB-CG2	5.62	120.06	110.50
1	ip	110	THR	N-CA-CB	5.62	118.96	110.42
1	iv	96	MET	CG-SD-CE	-5.62	88.53	100.90
1	iz	172	LEU	N-CA-C	5.62	120.00	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iT	210	THR	CA-CB-OG1	5.62	118.03	109.60
1	iW	193	ASN	O-C-N	-5.62	115.31	122.34
1	iX	27	VAL	O-C-N	-5.62	115.45	121.80
1	j5	154	ARG	CD-NE-CZ	-5.62	116.53	124.40
1	j9	88	ALA	N-CA-C	5.62	117.21	111.14
1	j9	146	SER	CB-CA-C	-5.62	100.39	109.67
1	ji	195	ASN	CA-C-N	5.62	125.73	119.32
1	ji	195	ASN	C-N-CA	5.62	125.73	119.32
1	jl	72	THR	N-CA-CB	5.62	118.48	110.16
1	jq	62	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	ju	164	TYR	N-CA-CB	-5.62	101.86	110.12
1	1W	37	ILE	CA-C-N	5.62	126.87	119.84
1	1W	37	ILE	C-N-CA	5.62	126.87	119.84
1	jG	134	ILE	N-CA-C	5.62	115.82	110.42
1	1Y	161	PHE	CA-C-N	5.62	127.81	120.28
1	1Y	161	PHE	C-N-CA	5.62	127.81	120.28
1	jT	3	VAL	O-C-N	-5.62	117.08	123.10
1	jW	95	GLN	CA-C-O	5.62	126.50	120.32
1	k1	34	PRO	CA-C-N	5.62	130.24	120.68
1	k1	34	PRO	C-N-CA	5.62	130.24	120.68
1	kn	20	LEU	O-C-N	-5.62	116.16	122.12
1	kp	63	GLN	CA-C-O	-5.62	113.50	119.97
1	ku	154	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	lc	87	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	lg	120	HIS	CG-CD2-NE2	5.62	112.82	107.20
1	lq	57	ASN	N-CA-CB	-5.62	101.64	110.46
1	lv	162	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	29	74	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	lM	185	MET	N-CA-C	5.62	117.41	111.28
1	2d	76	GLU	N-CA-CB	5.62	118.38	110.12
1	2f	120	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	2h	112	GLN	CA-C-O	5.62	126.51	120.55
1	2n	203	LYS	N-CA-C	5.62	117.41	111.28
1	2n	206	GLY	N-CA-C	-5.62	100.87	112.34
1	2G	165	VAL	N-CA-CB	5.62	117.13	110.55
1	2M	207	PRO	O-C-N	-5.62	116.81	123.10
1	2P	200	THR	O-C-N	-5.62	116.28	122.07
1	2Y	191	VAL	N-CA-C	-5.62	105.37	113.07
1	32	157	PRO	N-CD-CG	5.62	111.63	103.20
1	3r	64	ALA	O-C-N	-5.62	116.16	122.12
1	3v	205	LEU	N-CA-C	5.62	117.08	111.07
1	3A	189	LEU	CA-C-N	5.62	128.13	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3A	189	LEU	C-N-CA	5.62	128.13	120.54
1	3O	85	PRO	N-CA-C	5.62	119.69	111.03
1	3Y	126	VAL	N-CA-C	5.62	116.35	110.62
1	4a	37	ILE	N-CA-CB	5.62	114.83	110.45
1	4c	154	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	4c	193	ASN	CA-CB-CG	-5.62	106.98	112.60
1	4l	208	ALA	CA-C-O	5.62	128.55	120.51
1	4D	6	LEU	N-CA-C	5.62	118.63	110.42
1	4S	190	LEU	CA-C-N	5.62	128.16	120.46
1	4S	190	LEU	C-N-CA	5.62	128.16	120.46
1	4Y	84	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	52	24	VAL	CA-C-N	5.62	127.81	120.28
1	52	24	VAL	C-N-CA	5.62	127.81	120.28
1	54	59	VAL	N-CA-C	5.62	116.52	108.93
1	58	71	GLU	O-C-N	-5.62	116.16	122.12
1	58	90	PRO	N-CD-CG	5.62	111.63	103.20
1	5b	34	PRO	CB-CA-C	5.62	120.98	112.21
1	5j	45	GLU	CA-C-N	5.62	132.43	121.41
1	5j	45	GLU	C-N-CA	5.62	132.43	121.41
1	5o	123	PRO	CB-CA-C	5.62	118.37	111.12
1	5w	5	ASN	CA-CB-CG	-5.62	106.98	112.60
1	5w	87	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	5D	36	VAL	N-CA-C	5.62	116.26	110.36
1	5E	209	ALA	N-CA-C	5.62	118.96	110.64
1	5F	111	LEU	CA-C-O	-5.62	114.92	120.82
1	5K	83	LEU	N-CA-C	5.62	118.94	111.75
1	6b	39	MET	CA-C-N	5.62	128.60	120.79
1	6b	39	MET	C-N-CA	5.62	128.60	120.79
1	6c	159	GLU	CA-C-N	5.62	125.62	119.89
1	6c	159	GLU	C-N-CA	5.62	125.62	119.89
1	6l	33	SER	CA-C-N	5.62	126.87	119.84
1	6l	33	SER	C-N-CA	5.62	126.87	119.84
1	6p	179	GLN	CG-CD-NE2	5.62	124.83	116.40
1	6p	200	THR	CA-C-N	5.62	127.75	120.56
1	6p	200	THR	C-N-CA	5.62	127.75	120.56
1	6r	135	ILE	CA-CB-CG1	5.62	119.96	110.40
1	6W	23	TRP	CA-C-N	5.62	128.16	120.46
1	6W	23	TRP	C-N-CA	5.62	128.16	120.46
1	76	10	MET	CG-SD-CE	-5.62	88.53	100.90
1	7n	41	SER	CA-C-O	-5.62	114.89	120.90
1	7q	150	ILE	N-CA-C	-5.62	107.27	112.83
1	7r	135	ILE	N-CA-C	5.62	116.36	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7u	199	LYS	O-C-N	-5.62	115.11	122.59
1	7x	217	ALA	CA-C-O	5.62	126.72	120.82
1	7C	95	GLN	N-CA-CB	5.62	119.38	110.84
1	7F	228	ALA	O-C-N	-5.62	115.11	122.59
1	7Y	173	ARG	CA-C-N	5.62	127.75	120.44
1	7Y	173	ARG	C-N-CA	5.62	127.75	120.44
1	8a	17	PRO	N-CD-CG	-5.62	94.77	103.20
1	8T	69	LEU	CA-C-N	5.62	128.13	120.54
1	8T	69	LEU	C-N-CA	5.62	128.13	120.54
1	8W	205	LEU	CA-C-N	5.62	130.70	121.87
1	8W	205	LEU	C-N-CA	5.62	130.70	121.87
1	8Z	107	THR	O-C-N	5.62	129.79	123.27
1	9A	110	THR	O-C-N	-5.62	116.64	122.94
1	9E	24	VAL	CA-C-N	5.62	127.81	120.28
1	9E	24	VAL	C-N-CA	5.62	127.81	120.28
1	9J	30	LYS	O-C-N	-5.62	115.44	122.35
1	9J	52	LEU	CA-C-N	5.62	127.75	120.44
1	9J	52	LEU	C-N-CA	5.62	127.75	120.44
1	9K	149	SER	N-CA-CB	5.62	119.99	110.49
1	9R	114	GLN	N-CA-C	5.62	118.13	111.33
1	ac	197	ASP	N-CA-C	5.62	117.41	111.28
1	aj	20	LEU	CB-CA-C	-5.62	101.82	110.81
1	al	162	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	aq	70	LYS	N-CA-C	5.62	118.17	111.71
1	aC	63	GLN	N-CA-C	5.62	118.34	111.82
1	aR	202	LEU	N-CA-C	5.62	117.09	111.07
1	aS	34	PRO	CA-C-N	5.62	130.11	120.72
1	aS	34	PRO	C-N-CA	5.62	130.11	120.72
1	aS	67	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	b6	7	GLN	CA-C-N	5.62	126.57	120.44
1	b6	7	GLN	C-N-CA	5.62	126.57	120.44
1	b9	184	TRP	CA-C-N	5.62	127.81	120.28
1	b9	184	TRP	C-N-CA	5.62	127.81	120.28
1	bf	16	SER	N-CA-C	5.62	118.29	110.20
1	bf	195	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	bg	103	ASP	CA-CB-CG	-5.62	106.98	112.60
1	by	28	GLU	CB-CG-CD	5.62	122.16	112.60
1	bX	24	VAL	N-CA-C	5.62	116.35	110.62
1	bY	33	SER	N-CA-CB	5.62	120.38	110.37
1	bZ	82	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	c8	143	ARG	O-C-N	-5.62	115.74	122.15
1	cc	146	SER	N-CA-C	5.62	116.97	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cg	41	SER	O-C-N	-5.62	116.28	122.07
1	cm	178	SER	CA-C-N	5.62	127.81	120.28
1	cm	178	SER	C-N-CA	5.62	127.81	120.28
1	cv	120	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	cy	84	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	cy	120	HIS	N-CA-C	5.62	117.95	110.53
1	cS	195	ASN	O-C-N	-5.62	116.42	121.31
1	d0	26	VAL	O-C-N	-5.62	116.42	121.87
1	d8	37	ILE	N-CA-C	5.62	119.10	112.35
1	de	102	SER	N-CA-CB	5.62	118.38	110.12
1	dj	18	ARG	O-C-N	-5.62	116.16	122.12
1	dr	34	PRO	N-CA-C	5.62	121.15	113.84
1	dx	164	TYR	CA-C-O	-5.62	114.92	120.82
1	1l	65	ALA	CA-C-N	5.62	127.81	120.28
1	1l	65	ALA	C-N-CA	5.62	127.81	120.28
1	dy	186	THR	O-C-N	-5.62	115.36	122.27
1	dD	5	ASN	CA-CB-CG	-5.62	106.98	112.60
1	dE	70	LYS	N-CA-C	5.62	117.41	111.28
1	dJ	1	PRO	CA-C-N	5.62	130.16	123.19
1	dJ	1	PRO	C-N-CA	5.62	130.16	123.19
1	dL	67	GLN	CA-C-N	5.62	128.27	120.29
1	dL	67	GLN	C-N-CA	5.62	128.27	120.29
1	dS	105	ALA	O-C-N	-5.62	114.07	122.39
1	1o	126	VAL	N-CA-C	5.62	121.03	109.34
1	e2	156	GLY	CA-C-N	5.62	125.32	119.64
1	e2	156	GLY	C-N-CA	5.62	125.32	119.64
1	e4	82	ARG	CA-C-N	5.62	127.75	120.44
1	e4	82	ARG	C-N-CA	5.62	127.75	120.44
1	en	97	ARG	N-CA-CB	5.62	118.27	110.17
1	er	146	SER	CA-C-N	5.62	125.15	119.19
1	er	146	SER	C-N-CA	5.62	125.15	119.19
1	es	121	ASN	CA-CB-CG	-5.62	106.98	112.60
1	es	173	ARG	N-CA-C	5.62	118.13	111.33
1	eu	98	GLU	O-C-N	-5.62	115.46	121.42
1	eC	27	VAL	N-CA-C	5.62	116.35	110.62
1	eL	65	ALA	O-C-N	-5.62	115.74	122.15
1	eT	144	MET	N-CA-C	5.62	117.41	111.28
1	f5	84	HIS	CG-CD2-NE2	5.62	112.82	107.20
1	fl	19	THR	N-CA-C	5.62	117.41	111.28
1	fl	68	MET	CA-C-O	5.62	126.72	120.82
1	fx	109	SER	CA-C-O	-5.62	114.88	121.46
1	fE	30	LYS	CA-C-O	5.62	126.08	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	157	PRO	CB-CA-C	5.62	119.53	111.04
1	fY	158	LYS	O-C-N	-5.62	115.56	122.25
1	g5	212	GLU	N-CA-CB	5.62	118.38	110.12
1	g	16	SER	CA-C-O	-5.62	114.18	120.25
1	h	72	THR	O-C-N	-5.62	114.92	122.23
1	1	63	GLN	CA-C-O	5.62	126.72	120.82
1	o	124	ILE	N-CA-CB	5.62	117.44	111.20
1	p	85	PRO	N-CA-CB	5.62	108.20	103.25
1	r	22	ALA	CA-C-O	5.62	126.51	120.55
1	E	159	GLU	N-CA-C	5.62	117.57	109.48
1	O	45	GLU	CA-C-N	5.62	133.49	121.18
1	O	45	GLU	C-N-CA	5.62	133.49	121.18
1	V	22	ALA	CA-C-O	5.62	126.72	120.82
1	8	126	VAL	CA-C-N	5.62	127.36	120.22
1	8	126	VAL	C-N-CA	5.62	127.36	120.22
1	gg	84	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	gn	188	THR	N-CA-C	5.62	117.48	111.36
1	gD	200	THR	CA-C-O	5.62	126.51	120.55
1	1G	154	ARG	CA-C-N	5.62	131.39	122.74
1	1G	154	ARG	C-N-CA	5.62	131.39	122.74
1	hi	146	SER	CA-C-N	5.62	126.86	119.84
1	hi	146	SER	C-N-CA	5.62	126.86	119.84
1	hE	150	ILE	O-C-N	-5.62	116.19	121.87
1	hT	75	GLU	N-CA-C	5.62	117.08	111.07
1	1M	24	VAL	N-CA-C	5.62	116.40	110.72
1	i2	80	TRP	CB-CG-CD2	5.62	134.67	126.80
1	iH	162	ARG	O-C-N	5.62	128.08	122.12
1	j7	68	MET	CB-CA-C	-5.62	100.23	110.63
1	jo	166	ASP	O-C-N	5.62	128.08	122.12
1	jA	99	PRO	CB-CA-C	5.62	116.51	111.40
1	ku	32	PHE	CA-C-N	5.62	128.66	120.51
1	ku	32	PHE	C-N-CA	5.62	128.66	120.51
1	kv	75	GLU	CA-C-N	5.62	127.81	120.28
1	kv	75	GLU	C-N-CA	5.62	127.81	120.28
1	kw	113	GLU	CA-C-O	5.62	126.49	120.70
1	kP	86	VAL	CB-CA-C	5.62	120.51	111.29
1	kV	214	MET	N-CA-C	5.62	118.17	111.71
1	lO	148	THR	O-C-N	-5.62	117.41	123.42
1	2A	154	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	2Q	112	GLN	N-CA-CB	5.62	118.38	110.12
1	33	95	GLN	CA-C-N	5.62	130.72	121.39
1	33	95	GLN	C-N-CA	5.62	130.72	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	126	VAL	N-CA-C	5.62	121.03	109.34
1	3K	167	ARG	CA-C-N	5.62	128.07	120.65
1	3K	167	ARG	C-N-CA	5.62	128.07	120.65
1	3M	86	VAL	CB-CA-C	5.62	117.88	110.91
1	4m	161	PHE	CA-C-N	5.62	128.59	120.38
1	4m	161	PHE	C-N-CA	5.62	128.59	120.38
1	4t	133	TRP	N-CA-CB	5.62	118.38	110.12
1	4y	40	PHE	CB-CG-CD2	5.62	130.25	120.70
1	5j	100	ARG	CA-C-O	-5.62	115.02	121.82
1	5Y	85	PRO	N-CA-C	5.62	124.05	112.47
1	5Z	87	HIS	CA-C-O	5.62	127.51	121.55
1	6I	97	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	6P	215	MET	N-CA-C	5.62	117.48	111.36
1	6W	117	TRP	CA-C-O	-5.62	114.59	120.55
1	6Z	145	TYR	CA-CB-CG	5.62	124.02	113.90
1	6Z	154	ARG	N-CA-C	5.62	117.85	109.59
1	7m	52	LEU	CA-C-N	5.62	128.13	120.54
1	7m	52	LEU	C-N-CA	5.62	128.13	120.54
1	7K	205	LEU	CA-C-N	5.62	130.69	121.87
1	7K	205	LEU	C-N-CA	5.62	130.69	121.87
1	80	132	ARG	CD-NE-CZ	5.62	132.27	124.40
1	89	120	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	8d	34	PRO	N-CA-C	5.62	124.05	112.47
1	8e	123	PRO	CB-CA-C	5.62	118.71	111.46
1	8k	52	LEU	CA-C-N	5.62	128.08	120.38
1	8k	52	LEU	C-N-CA	5.62	128.08	120.38
1	8P	5	ASN	CB-CA-C	-5.62	101.13	109.90
1	96	55	MET	CA-C-N	5.62	127.81	120.28
1	96	55	MET	C-N-CA	5.62	127.81	120.28
1	9g	55	MET	CA-C-O	-5.62	114.59	120.55
1	9v	14	ALA	N-CA-CB	-5.62	101.09	109.69
1	9I	111	LEU	CA-C-O	-5.62	114.46	120.42
1	a1	62	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	a6	113	GLU	CA-C-N	5.62	128.13	120.54
1	a6	113	GLU	C-N-CA	5.62	128.13	120.54
1	ab	4	GLN	O-C-N	-5.62	115.11	122.59
1	ao	67	GLN	CB-CA-C	5.62	120.12	110.79
1	av	229	ARG	N-CA-CB	5.62	119.59	110.43
1	aA	61	GLY	CA-C-N	5.62	130.34	122.36
1	aA	61	GLY	C-N-CA	5.62	130.34	122.36
1	aI	168	PHE	N-CA-C	5.62	117.10	110.97
1	bo	53	ASN	CA-C-N	5.62	128.85	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	53	ASN	C-N-CA	5.62	128.85	120.31
1	bw	63	GLN	CA-C-O	-5.62	112.96	119.14
1	by	89	GLY	CA-C-N	5.62	125.82	120.31
1	by	89	GLY	C-N-CA	5.62	125.82	120.31
1	bG	37	ILE	N-CA-C	5.62	121.02	108.88
1	bO	120	HIS	CG-CD2-NE2	5.62	112.82	107.20
1	bU	42	ALA	N-CA-CB	-5.62	101.57	110.28
1	c8	228	ALA	O-C-N	-5.62	115.95	122.86
1	cp	204	ALA	N-CA-C	5.62	117.08	111.07
1	cy	136	LEU	CA-C-N	5.62	126.18	119.94
1	cy	136	LEU	C-N-CA	5.62	126.18	119.94
1	cD	21	ASN	CA-CB-CG	-5.62	106.98	112.60
1	cO	120	HIS	CB-CG-CD2	-5.62	123.89	131.20
1	d1	96	MET	N-CA-C	5.62	122.77	110.80
1	d8	172	LEU	CA-C-O	-5.62	113.51	119.97
1	dd	226	HIS	CB-CG-ND1	5.62	131.13	122.70
1	du	28	GLU	O-C-N	-5.62	115.74	122.15
1	1o	82	ARG	N-CA-C	5.62	117.41	111.28
1	ep	182	LYS	CA-C-N	5.62	128.08	120.44
1	ep	182	LYS	C-N-CA	5.62	128.08	120.44
1	eH	150	ILE	O-C-N	-5.62	116.42	121.87
1	eP	205	LEU	O-C-N	5.62	127.86	122.07
1	eW	87	HIS	O-C-N	-5.62	115.53	123.01
1	fh	216	THR	N-CA-C	5.62	119.98	113.18
1	G	193	ASN	O-C-N	-5.62	115.60	122.34
1	N	87	HIS	CA-CB-CG	5.62	119.42	113.80
1	P	1	PRO	CA-N-CD	-5.62	104.13	112.00
1	Q	58	THR	CA-CB-CG2	5.62	120.05	110.50
1	W	45	GLU	CB-CG-CD	5.62	122.16	112.60
1	gc	94	GLY	CA-C-O	5.62	125.03	118.96
1	gi	75	GLU	CA-C-N	5.62	127.81	120.28
1	gi	75	GLU	C-N-CA	5.62	127.81	120.28
1	go	89	GLY	CA-C-N	5.62	125.90	119.83
1	go	89	GLY	C-N-CA	5.62	125.90	119.83
1	gx	227	LYS	N-CA-C	5.62	117.99	110.35
1	1I	186	THR	O-C-N	-5.62	116.28	122.07
1	hg	179	GLN	CA-C-N	5.62	127.81	120.28
1	hg	179	GLN	C-N-CA	5.62	127.81	120.28
1	1J	221	VAL	N-CA-C	5.62	118.66	109.78
1	1K	34	PRO	CA-N-CD	-5.62	104.13	112.00
1	1K	44	SER	CA-C-O	-5.62	111.76	119.12
1	hC	112	GLN	N-CA-C	5.62	117.48	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	120	HIS	CG-CD2-NE2	5.62	112.82	107.20
1	hL	167	ARG	CA-C-N	5.62	127.75	120.44
1	hL	167	ARG	C-N-CA	5.62	127.75	120.44
1	hZ	176	GLN	CB-CG-CD	5.62	122.15	112.60
1	i7	194	ALA	N-CA-C	5.62	117.79	110.43
1	i9	162	ARG	CA-C-N	5.62	127.81	120.28
1	i9	162	ARG	C-N-CA	5.62	127.81	120.28
1	if	215	MET	N-CA-C	5.62	119.88	113.19
1	ig	209	ALA	N-CA-C	5.62	117.89	108.23
1	1P	6	LEU	O-C-N	-5.62	116.83	123.41
1	iv	23	TRP	N-CA-C	5.62	117.40	111.28
1	iN	78	ALA	O-C-N	5.62	128.07	122.12
1	iQ	19	THR	CA-CB-CG2	5.62	120.05	110.50
1	1S	10	MET	N-CA-C	5.62	118.50	110.24
1	jc	16	SER	O-C-N	-5.62	114.50	121.64
1	ji	15	ILE	O-C-N	-5.62	116.55	122.67
1	1V	9	GLN	CA-C-N	5.62	128.69	120.71
1	1V	9	GLN	C-N-CA	5.62	128.69	120.71
1	jq	18	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	jv	61	GLY	N-CA-C	-5.62	102.73	112.06
1	jB	190	LEU	N-CA-CB	-5.62	101.86	110.01
1	kl	167	ARG	O-C-N	-5.62	116.28	122.07
1	kI	215	MET	CG-SD-CE	-5.62	88.54	100.90
1	kL	58	THR	N-CA-CB	5.62	118.38	110.12
1	kV	227	LYS	N-CA-C	5.62	118.74	110.59
1	kZ	181	VAL	CA-C-N	5.62	128.27	120.29
1	kZ	181	VAL	C-N-CA	5.62	128.27	120.29
1	l5	176	GLN	N-CA-C	5.62	119.43	112.24
1	l8	216	THR	N-CA-CB	5.62	118.99	110.28
1	lg	101	GLY	O-C-N	-5.62	116.80	122.19
1	27	3	VAL	CA-C-O	5.62	126.44	120.48
1	ln	124	ILE	CB-CG1-CD1	5.62	125.60	113.80
1	lq	41	SER	O-C-N	-5.62	116.28	122.07
1	lu	121	ASN	CA-C-O	-5.62	115.16	119.71
1	2o	5	ASN	CB-CA-C	5.62	119.80	110.81
1	2L	13	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	2P	130	TYR	CA-C-N	5.62	127.81	120.28
1	2P	130	TYR	C-N-CA	5.62	127.81	120.28
1	2T	148	THR	CA-C-O	-5.62	114.84	120.96
1	2U	119	THR	N-CA-CB	5.62	118.81	110.49
1	2V	177	ALA	O-C-N	-5.62	116.39	122.79
1	31	139	ASN	CB-CG-ND2	5.62	124.83	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	217	ALA	CA-C-O	-5.62	115.53	121.88
1	3j	200	THR	OG1-CB-CG2	-5.62	98.06	109.30
1	3r	90	PRO	CA-C-N	5.62	128.16	120.46
1	3r	90	PRO	C-N-CA	5.62	128.16	120.46
1	3y	166	ASP	CA-C-N	5.62	127.81	120.28
1	3y	166	ASP	C-N-CA	5.62	127.81	120.28
1	3R	145	TYR	CB-CA-C	5.62	120.78	111.23
1	3W	163	ASP	CB-CA-C	-5.62	101.30	110.85
1	3W	193	ASN	CA-C-O	5.62	126.13	119.56
1	4h	12	HIS	CB-CG-ND1	-5.62	114.27	122.70
1	4l	21	ASN	O-C-N	-5.62	116.16	122.12
1	4y	110	THR	O-C-N	-5.62	116.33	123.24
1	4Y	48	THR	CA-C-N	5.62	126.86	119.84
1	4Y	48	THR	C-N-CA	5.62	126.86	119.84
1	4Z	126	VAL	CA-C-N	5.62	126.18	120.00
1	4Z	126	VAL	C-N-CA	5.62	126.18	120.00
1	58	51	ASP	CA-CB-CG	-5.62	106.98	112.60
1	5g	28	GLU	CA-C-O	-5.62	114.92	120.82
1	5g	70	LYS	CA-C-N	5.62	127.81	120.28
1	5g	70	LYS	C-N-CA	5.62	127.81	120.28
1	5w	131	LYS	CA-C-N	5.62	127.81	120.28
1	5w	131	LYS	C-N-CA	5.62	127.81	120.28
1	5y	140	LYS	CA-C-O	5.62	126.29	119.38
1	5E	79	GLU	N-CA-C	5.62	117.40	111.28
1	5G	35	GLU	CA-C-N	5.62	128.16	120.46
1	5G	35	GLU	C-N-CA	5.62	128.16	120.46
1	5R	213	GLU	N-CA-C	5.62	118.34	111.82
1	5U	11	VAL	N-CA-CB	5.62	117.78	111.21
1	5X	100	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	63	68	MET	CA-C-O	5.62	126.48	120.24
1	65	80	TRP	O-C-N	-5.62	116.28	122.07
1	65	177	ALA	N-CA-C	5.62	122.77	110.80
1	69	136	LEU	CA-C-N	5.62	132.42	121.41
1	69	136	LEU	C-N-CA	5.62	132.42	121.41
1	6i	192	GLN	OE1-CD-NE2	5.62	128.22	122.60
1	6v	143	ARG	N-CA-C	5.62	117.08	111.07
1	6B	50	GLN	CA-C-O	5.62	126.72	120.82
1	6I	182	LYS	CA-C-O	-5.62	114.59	120.55
1	6K	209	ALA	CB-CA-C	5.62	118.66	109.90
1	6L	140	LYS	N-CA-C	5.62	117.40	111.28
1	6T	221	VAL	N-CA-C	5.62	117.54	109.51
1	6U	7	GLN	CA-C-O	5.62	125.92	119.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	76	68	MET	CA-C-N	5.62	127.81	120.28
1	76	68	MET	C-N-CA	5.62	127.81	120.28
1	7m	123	PRO	N-CA-C	5.62	120.04	111.11
1	7F	169	TYR	N-CA-CB	5.62	118.38	110.12
1	7O	87	HIS	N-CA-CB	-5.62	101.06	109.71
1	7Z	167	ARG	CA-C-N	5.62	127.74	120.44
1	7Z	167	ARG	C-N-CA	5.62	127.74	120.44
1	80	164	TYR	N-CA-C	-5.62	106.56	113.41
1	8j	65	ALA	CA-C-O	5.62	126.50	120.55
1	8t	63	GLN	CG-CD-OE1	-5.62	109.56	120.80
1	8u	86	VAL	O-C-N	-5.62	116.94	122.67
1	8G	53	ASN	CA-C-O	-5.62	114.47	120.42
1	8I	185	MET	CA-C-N	5.62	128.27	120.29
1	8I	185	MET	C-N-CA	5.62	128.27	120.29
1	8P	43	LEU	N-CA-C	5.62	117.48	111.36
1	9l	112	GLN	CA-C-N	5.62	127.74	120.44
1	9l	112	GLN	C-N-CA	5.62	127.74	120.44
1	9H	56	LEU	CA-C-N	5.62	127.74	120.44
1	9H	56	LEU	C-N-CA	5.62	127.74	120.44
1	9I	170	LYS	CB-CA-C	5.62	120.12	110.79
1	9P	139	ASN	N-CA-CB	-5.62	101.86	110.12
1	9V	133	TRP	CA-C-N	5.62	127.64	120.56
1	9V	133	TRP	C-N-CA	5.62	127.64	120.56
1	a0	113	GLU	CA-C-N	5.62	127.74	120.44
1	a0	113	GLU	C-N-CA	5.62	127.74	120.44
1	a1	176	GLN	CA-C-N	5.62	128.69	120.71
1	a1	176	GLN	C-N-CA	5.62	128.69	120.71
1	a9	133	TRP	CE3-CZ3-CH2	-5.62	113.80	121.10
1	am	79	GLU	CA-C-N	5.62	128.12	120.54
1	am	79	GLU	C-N-CA	5.62	128.12	120.54
1	ar	143	ARG	N-CA-CB	5.62	118.16	110.01
1	as	100	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	12	128	GLU	CA-C-N	5.62	127.64	120.56
1	12	128	GLU	C-N-CA	5.62	127.64	120.56
1	aA	186	THR	N-CA-C	5.62	117.85	111.11
1	b2	55	MET	N-CA-C	5.62	117.85	111.11
1	bd	190	LEU	N-CA-C	5.62	120.29	113.38
1	bf	60	GLY	CA-C-N	5.62	131.48	121.48
1	bf	60	GLY	C-N-CA	5.62	131.48	121.48
1	bn	160	PRO	CA-C-N	5.62	127.81	120.28
1	bn	160	PRO	C-N-CA	5.62	127.81	120.28
1	br	28	GLU	CA-C-O	5.62	126.51	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bt	213	GLU	CA-C-N	5.62	127.81	120.28
1	bt	213	GLU	C-N-CA	5.62	127.81	120.28
1	bv	126	VAL	N-CA-C	5.62	116.35	110.62
1	bL	78	ALA	CA-C-N	5.62	127.74	120.44
1	bL	78	ALA	C-N-CA	5.62	127.74	120.44
1	1a	21	ASN	CA-C-N	5.62	128.27	120.29
1	1a	21	ASN	C-N-CA	5.62	128.27	120.29
1	bR	92	GLU	CA-C-N	5.62	126.86	119.84
1	bR	92	GLU	C-N-CA	5.62	126.86	119.84
1	bZ	19	THR	O-C-N	-5.62	116.07	122.08
1	c3	69	LEU	N-CA-CB	-5.62	101.86	110.01
1	c4	7	GLN	CG-CD-NE2	5.62	124.83	116.40
1	c8	139	ASN	OD1-CG-ND2	5.62	128.22	122.60
1	ca	142	VAL	N-CA-CB	-5.62	104.50	110.62
1	cc	64	ALA	CA-C-O	5.62	126.48	120.24
1	cf	110	THR	N-CA-CB	5.62	118.26	110.17
1	d9	150	ILE	CA-C-N	5.62	127.81	120.28
1	d9	150	ILE	C-N-CA	5.62	127.81	120.28
1	dd	191	VAL	CB-CA-C	-5.62	104.66	112.02
1	de	54	THR	O-C-N	-5.62	116.17	122.12
1	dv	221	VAL	CA-C-O	5.62	127.75	120.95
1	dA	19	THR	CA-C-N	5.62	127.81	120.28
1	dA	19	THR	C-N-CA	5.62	127.81	120.28
1	dF	196	PRO	N-CA-C	5.62	124.05	112.47
1	dX	16	SER	CA-C-N	5.62	126.86	119.84
1	dX	16	SER	C-N-CA	5.62	126.86	119.84
1	e2	30	LYS	CB-CG-CD	5.62	124.22	111.30
1	e5	141	ILE	N-CA-C	5.62	116.26	110.36
1	ey	211	LEU	CA-C-N	5.62	127.81	120.28
1	ey	211	LEU	C-N-CA	5.62	127.81	120.28
1	ez	173	ARG	NH1-CZ-NH2	5.62	126.60	119.30
1	eO	86	VAL	CB-CA-C	-5.62	105.48	112.45
1	eT	3	VAL	CA-C-O	5.62	127.19	121.63
1	eW	57	ASN	OD1-CG-ND2	5.62	128.22	122.60
1	1v	145	TYR	CA-C-N	5.62	128.20	120.39
1	1v	145	TYR	C-N-CA	5.62	128.20	120.39
1	fc	32	PHE	N-CA-CB	5.62	118.93	109.94
1	fe	96	MET	CA-C-N	5.62	128.69	120.71
1	fe	96	MET	C-N-CA	5.62	128.69	120.71
1	fi	21	ASN	CA-CB-CG	-5.62	106.98	112.60
1	fu	197	ASP	CA-CB-CG	-5.62	106.98	112.60
1	fC	67	GLN	CB-CG-CD	5.62	122.15	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fG	100	ARG	O-C-N	-5.62	116.11	122.68
1	fH	91	ILE	CB-CA-C	5.62	118.90	110.98
1	1z	159	GLU	CA-C-N	5.62	125.94	119.93
1	1z	159	GLU	C-N-CA	5.62	125.94	119.93
1	fY	81	ASP	N-CA-CB	-5.62	101.64	110.46
1	fY	191	VAL	O-C-N	-5.62	116.04	121.83
1	g1	31	ALA	N-CA-CB	-5.62	100.99	110.49
1	i	98	GLU	O-C-N	-5.62	116.53	121.31
1	B	176	GLN	CA-C-N	5.62	132.27	121.54
1	B	176	GLN	C-N-CA	5.62	132.27	121.54
1	F	17	PRO	CA-C-N	5.62	128.27	120.29
1	F	17	PRO	C-N-CA	5.62	128.27	120.29
1	I	138	LEU	CA-C-N	5.62	128.12	120.54
1	I	138	LEU	C-N-CA	5.62	128.12	120.54
1	Q	104	ILE	N-CA-CB	5.62	118.18	110.54
1	9	80	TRP	CA-C-N	5.62	128.08	120.44
1	9	80	TRP	C-N-CA	5.62	128.08	120.44
1	gs	22	ALA	N-CA-C	5.62	117.40	111.28
1	gx	132	ARG	CA-C-O	5.62	126.37	120.42
1	hr	143	ARG	O-C-N	-5.62	115.75	122.15
1	hI	157	PRO	N-CA-C	-5.62	105.87	113.40
1	hP	125	PRO	O-C-N	-5.62	114.64	122.11
1	i1	52	LEU	N-CA-C	5.62	117.08	111.07
1	i3	151	LEU	CA-C-N	5.62	131.02	122.37
1	i3	151	LEU	C-N-CA	5.62	131.02	122.37
1	ik	215	MET	CG-SD-CE	-5.62	88.54	100.90
1	ir	20	LEU	CB-CA-C	5.62	119.85	110.92
1	iL	193	ASN	CA-C-N	5.62	130.40	122.09
1	iL	193	ASN	C-N-CA	5.62	130.40	122.09
1	iS	72	THR	N-CA-CB	5.62	118.47	110.16
1	j5	33	SER	CA-C-N	5.62	125.71	119.87
1	j5	33	SER	C-N-CA	5.62	125.71	119.87
1	j6	193	ASN	CB-CA-C	-5.62	101.07	110.56
1	jg	13	GLN	O-C-N	-5.62	116.98	123.33
1	jl	18	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	jA	79	GLU	N-CA-C	5.62	118.13	111.33
1	jE	25	LYS	CA-C-N	5.62	127.64	120.56
1	jE	25	LYS	C-N-CA	5.62	127.64	120.56
1	jH	4	GLN	CA-C-N	5.62	128.38	121.64
1	jH	4	GLN	C-N-CA	5.62	128.38	121.64
1	jV	230	VAL	CA-C-N	5.62	131.81	121.70
1	jV	230	VAL	C-N-CA	5.62	131.81	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jW	48	THR	CA-CB-OG1	5.62	118.03	109.60
1	ka	43	LEU	O-C-N	-5.62	115.36	122.27
1	kl	41	SER	CA-C-N	5.62	128.85	120.31
1	kl	41	SER	C-N-CA	5.62	128.85	120.31
1	kv	190	LEU	N-CA-C	5.62	117.85	111.11
1	23	203	LYS	CA-C-O	5.62	126.37	120.42
1	kI	218	CYS	CA-C-O	5.62	128.54	120.51
1	l1	45	GLU	N-CA-C	5.62	117.85	109.59
1	l6	28	GLU	CB-CA-C	5.62	119.61	110.96
1	lh	58	THR	N-CA-CB	5.62	118.49	110.06
1	lr	229	ARG	CD-NE-CZ	5.62	132.26	124.40
1	28	64	ALA	N-CA-C	5.62	117.40	111.28
1	lt	72	THR	O-C-N	-5.62	116.25	122.09
1	lN	87	HIS	CA-CB-CG	5.62	119.42	113.80
1	2X	100	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	3h	194	ALA	O-C-N	-5.62	116.38	123.01
1	3j	63	GLN	CA-C-N	5.62	128.08	120.44
1	3j	63	GLN	C-N-CA	5.62	128.08	120.44
1	3r	124	ILE	N-CA-CB	5.62	118.34	111.21
1	3H	162	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	3N	115	ILE	N-CA-C	-5.62	105.05	110.72
1	3R	37	ILE	O-C-N	-5.62	116.83	120.42
1	4d	2	ILE	N-CA-CB	5.62	121.40	110.95
1	4m	156	GLY	O-C-N	-5.62	117.36	122.42
1	4u	55	MET	CA-C-O	-5.62	114.60	120.55
1	4z	151	LEU	CA-C-N	5.62	128.37	120.28
1	4z	151	LEU	C-N-CA	5.62	128.37	120.28
1	4L	138	LEU	O-C-N	-5.62	116.17	122.12
1	4R	29	GLU	CB-CG-CD	5.62	122.15	112.60
1	4U	87	HIS	CA-C-N	5.62	130.99	122.56
1	4U	87	HIS	C-N-CA	5.62	130.99	122.56
1	5e	42	ALA	CA-C-N	5.62	128.37	120.28
1	5e	42	ALA	C-N-CA	5.62	128.37	120.28
1	5j	6	LEU	O-C-N	-5.62	116.11	122.68
1	5n	63	GLN	CA-C-O	-5.62	114.00	120.24
1	5D	29	GLU	N-CA-C	5.62	117.08	111.07
1	5R	115	ILE	CA-CB-CG2	5.62	120.05	110.50
1	68	117	TRP	CB-CG-CD2	-5.62	118.94	126.80
1	6O	181	VAL	N-CA-C	5.62	115.81	110.42
1	75	34	PRO	CA-C-N	5.62	130.10	120.72
1	75	34	PRO	C-N-CA	5.62	130.10	120.72
1	78	109	SER	CA-C-N	5.62	130.71	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	109	SER	C-N-CA	5.62	130.71	121.39
1	7c	110	THR	CA-C-N	5.62	128.08	120.38
1	7c	110	THR	C-N-CA	5.62	128.08	120.38
1	7x	82	ARG	NE-CZ-NH2	-5.62	114.14	119.20
1	7B	37	ILE	N-CA-CB	5.62	119.07	111.21
1	7H	105	ALA	N-CA-C	-5.62	106.09	113.17
1	8r	96	MET	CG-SD-CE	-5.62	88.54	100.90
1	8E	119	THR	N-CA-C	-5.62	106.09	113.17
1	8G	5	ASN	N-CA-C	5.62	118.47	110.10
1	8R	207	PRO	N-CA-C	5.62	121.23	113.98
1	92	50	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	9i	230	VAL	CA-C-N	5.62	131.81	121.70
1	9i	230	VAL	C-N-CA	5.62	131.81	121.70
1	9B	68	MET	CA-C-O	5.62	126.29	119.38
1	9N	170	LYS	N-CA-C	5.62	117.85	111.11
1	ak	54	THR	CA-CB-CG2	5.62	120.05	110.50
1	aq	66	MET	CG-SD-CE	-5.62	88.54	100.90
1	12	62	HIS	CB-CG-CD2	-5.62	123.90	131.20
1	aF	215	MET	CB-CA-C	5.62	118.19	111.22
1	aI	132	ARG	N-CA-C	5.62	118.13	111.33
1	b0	192	GLN	N-CA-C	5.62	117.40	111.28
1	bq	176	GLN	N-CA-CB	-5.62	102.63	111.39
1	bv	229	ARG	CA-C-O	5.62	126.22	119.59
1	bG	24	VAL	CA-C-N	5.62	127.81	120.28
1	bG	24	VAL	C-N-CA	5.62	127.81	120.28
1	c8	209	ALA	N-CA-CB	5.62	118.31	109.83
1	cl	152	ASP	N-CA-CB	-5.62	101.85	110.44
1	dp	63	GLN	CA-C-O	5.62	126.42	119.79
1	dA	31	ALA	N-CA-C	5.62	118.17	111.71
1	dW	197	ASP	CA-CB-CG	-5.62	106.98	112.60
1	em	139	ASN	N-CA-C	5.62	117.48	111.36
1	f7	172	LEU	N-CA-C	5.62	117.48	111.36
1	f8	165	VAL	O-C-N	-5.62	116.41	121.91
1	f8	179	GLN	N-CA-C	5.62	118.13	111.33
1	fF	98	GLU	CA-C-N	5.62	126.86	119.84
1	fF	98	GLU	C-N-CA	5.62	126.86	119.84
1	W	220	GLY	O-C-N	-5.62	115.40	122.70
1	gg	23	TRP	CA-C-N	5.62	128.15	120.46
1	gg	23	TRP	C-N-CA	5.62	128.15	120.46
1	gq	85	PRO	N-CA-C	5.62	119.28	110.80
1	gy	77	ALA	N-CA-C	5.62	117.08	111.07
1	gD	130	TYR	O-C-N	-5.62	116.29	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gE	124	ILE	CA-C-O	5.62	122.46	119.15
1	gK	89	GLY	O-C-N	5.62	127.39	121.77
1	gL	27	VAL	CA-C-N	5.62	128.08	120.44
1	gL	27	VAL	C-N-CA	5.62	128.08	120.44
1	gQ	45	GLU	N-CA-CB	5.62	119.02	109.87
1	gU	136	LEU	CA-C-N	5.62	126.18	120.00
1	gU	136	LEU	C-N-CA	5.62	126.18	120.00
1	gY	195	ASN	CA-C-O	-5.62	114.33	120.17
1	h0	127	GLY	CA-C-N	5.62	128.26	120.29
1	h0	127	GLY	C-N-CA	5.62	128.26	120.29
1	1H	92	GLU	CA-C-O	-5.62	113.97	120.03
1	h7	64	ALA	CA-C-N	5.62	127.74	120.44
1	h7	64	ALA	C-N-CA	5.62	127.74	120.44
1	h8	41	SER	O-C-N	-5.62	116.17	122.12
1	hb	64	ALA	N-CA-CB	-5.62	101.86	110.12
1	hu	14	ALA	N-CA-C	5.62	118.16	110.24
1	hB	198	CYS	CA-C-N	5.62	128.07	120.38
1	hB	198	CYS	C-N-CA	5.62	128.07	120.38
1	hP	98	GLU	O-C-N	-5.62	116.39	121.39
1	i4	42	ALA	CB-CA-C	-5.62	101.47	110.79
1	ib	108	THR	CA-CB-OG1	5.62	118.02	109.60
1	ij	35	GLU	N-CA-C	-5.62	106.09	113.17
1	ip	73	ILE	CA-C-N	5.62	128.84	120.31
1	ip	73	ILE	C-N-CA	5.62	128.84	120.31
1	it	145	TYR	O-C-N	-5.62	115.60	122.34
1	iC	179	GLN	CA-C-O	5.62	126.43	119.97
1	iK	179	GLN	CG-CD-NE2	5.62	124.82	116.40
1	1S	218	CYS	O-C-N	-5.62	116.23	122.91
1	j2	7	GLN	N-CA-C	5.62	118.37	110.23
1	jo	145	TYR	CB-CA-C	5.62	119.43	111.74
1	jt	213	GLU	O-C-N	-5.62	116.17	122.12
1	jN	113	GLU	CA-C-N	5.62	127.74	120.44
1	jN	113	GLU	C-N-CA	5.62	127.74	120.44
1	1Z	11	VAL	N-CA-C	5.62	117.42	108.89
1	20	18	ARG	O-C-N	-5.62	115.65	122.22
1	ka	115	ILE	CA-C-O	-5.62	114.90	120.85
1	kA	226	HIS	CG-CD2-NE2	5.62	112.81	107.20
1	kI	164	TYR	O-C-N	-5.62	116.29	122.07
1	kP	164	TYR	O-C-N	-5.62	116.29	122.07
1	l6	12	HIS	CE1-NE2-CD2	-5.62	103.39	109.00
1	lw	208	ALA	CA-C-O	5.62	126.08	119.28
1	lB	19	THR	N-CA-C	5.62	118.17	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	169	TYR	N-CA-C	5.62	117.40	111.28
1	lI	180	GLU	CA-C-N	5.62	128.15	120.46
1	lI	180	GLU	C-N-CA	5.62	128.15	120.46
1	lI	181	VAL	CB-CA-C	-5.62	104.56	112.14
1	2g	106	GLY	O-C-N	-5.62	115.49	122.34
1	2k	219	GLN	CB-CA-C	-5.62	99.89	110.67
1	2n	115	ILE	N-CA-C	5.62	116.35	110.62
1	2o	208	ALA	CA-C-N	5.62	129.76	120.94
1	2o	208	ALA	C-N-CA	5.62	129.76	120.94
1	2s	185	MET	CA-C-N	5.62	128.26	120.29
1	2s	185	MET	C-N-CA	5.62	128.26	120.29
1	2u	133	TRP	CH2-CZ2-CE2	-5.62	110.20	117.50
1	2v	173	ARG	NE-CZ-NH1	5.62	127.12	121.50
1	2M	72	THR	CA-C-O	5.62	126.50	120.55
1	2Z	88	ALA	O-C-N	-5.62	115.12	122.59
1	35	116	GLY	CA-C-N	5.62	127.74	120.44
1	35	116	GLY	C-N-CA	5.62	127.74	120.44
1	3k	110	THR	CA-C-N	5.62	127.81	120.28
1	3k	110	THR	C-N-CA	5.62	127.81	120.28
1	3p	116	GLY	N-CA-C	5.62	119.44	112.64
1	3p	120	HIS	O-C-N	-5.62	115.80	122.65
1	3T	112	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	43	67	GLN	O-C-N	-5.62	116.29	122.07
1	4p	5	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	4t	149	SER	N-CA-CB	5.62	118.26	110.17
1	4z	143	ARG	CA-C-N	5.62	128.26	120.29
1	4z	143	ARG	C-N-CA	5.62	128.26	120.29
1	4O	189	LEU	O-C-N	-5.62	116.17	122.12
1	4S	184	TRP	N-CA-C	5.62	118.17	111.71
1	54	184	TRP	CA-C-O	5.62	126.50	120.55
1	5i	175	GLU	N-CA-C	5.62	118.37	110.23
1	5m	96	MET	CB-CA-C	-5.62	100.05	109.48
1	5m	205	LEU	N-CA-C	5.62	117.08	111.07
1	5p	67	GLN	N-CA-C	5.62	117.20	111.14
1	5F	183	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	5W	118	MET	CB-CA-C	5.62	120.11	110.79
1	5Y	117	TRP	CB-CG-CD1	-5.62	118.48	126.90
1	60	195	ASN	N-CA-C	5.62	116.06	109.60
1	66	51	ASP	CB-CA-C	-5.62	101.47	110.79
1	6o	131	LYS	O-C-N	-5.62	115.09	122.39
1	6r	207	PRO	N-CA-C	-5.62	106.69	114.27
1	6J	114	GLN	N-CA-C	5.62	117.40	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Q	229	ARG	CG-CD-NE	-5.62	99.65	112.00
1	6U	51	ASP	N-CA-CB	5.62	118.31	109.94
1	71	173	ARG	CB-CA-C	-5.62	101.42	110.74
1	75	53	ASN	O-C-N	-5.62	116.17	122.12
1	75	89	GLY	CA-C-N	5.62	126.86	119.84
1	75	89	GLY	C-N-CA	5.62	126.86	119.84
1	77	5	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	78	42	ALA	CB-CA-C	-5.62	101.47	110.79
1	78	226	HIS	CA-CB-CG	5.62	119.42	113.80
1	7d	51	ASP	CA-C-N	5.62	127.80	120.28
1	7d	51	ASP	C-N-CA	5.62	127.80	120.28
1	7o	112	GLN	OE1-CD-NE2	-5.62	116.98	122.60
1	7o	120	HIS	O-C-N	-5.62	115.12	122.59
1	7o	219	GLN	CA-C-N	5.62	130.92	120.87
1	7o	219	GLN	C-N-CA	5.62	130.92	120.87
1	7q	81	ASP	N-CA-C	-5.62	105.93	112.89
1	87	162	ARG	N-CA-C	5.62	118.12	111.33
1	8e	50	GLN	CG-CD-NE2	5.62	124.82	116.40
1	8D	226	HIS	N-CA-C	5.62	117.93	109.23
1	8K	110	THR	CA-CB-OG1	-5.62	101.18	109.60
1	8L	33	SER	CA-C-O	-5.62	113.30	120.04
1	98	100	ARG	O-C-N	-5.62	116.11	122.68
1	9s	104	ILE	N-CA-C	-5.62	104.88	111.00
1	9u	33	SER	CA-C-O	-5.62	115.17	120.34
1	9N	130	TYR	CA-CB-CG	5.62	124.01	113.90
1	9U	162	ARG	NE-CZ-NH2	-5.62	114.15	119.20
1	9X	3	VAL	CA-C-N	5.62	128.68	120.71
1	9X	3	VAL	C-N-CA	5.62	128.68	120.71
1	a0	179	GLN	CA-C-N	5.62	127.74	120.44
1	a0	179	GLN	C-N-CA	5.62	127.74	120.44
1	11	73	ILE	N-CA-C	5.62	115.81	110.42
1	am	123	PRO	N-CA-CB	5.62	109.15	103.25
1	an	219	GLN	CA-C-O	-5.62	114.56	121.02
1	aw	74	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	aR	3	VAL	CB-CA-C	-5.62	102.08	111.29
1	aU	73	ILE	CA-CB-CG2	-5.62	100.95	110.50
1	15	33	SER	CA-C-N	5.62	125.28	119.05
1	15	33	SER	C-N-CA	5.62	125.28	119.05
1	b0	64	ALA	CA-C-O	5.62	126.37	120.42
1	bt	6	LEU	N-CA-C	5.62	118.17	111.71
1	bx	81	ASP	CA-C-O	-5.62	114.47	120.42
1	bN	155	GLN	N-CA-C	5.62	117.94	109.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bS	196	PRO	CA-C-N	5.62	127.81	120.28
1	bS	196	PRO	C-N-CA	5.62	127.81	120.28
1	bT	15	ILE	N-CA-C	5.62	117.54	109.51
1	bT	167	ARG	NH1-CZ-NH2	-5.62	112.00	119.30
1	bU	3	VAL	CA-C-N	5.62	130.55	122.35
1	bU	3	VAL	C-N-CA	5.62	130.55	122.35
1	bV	179	GLN	N-CA-CB	5.62	118.37	110.12
1	c1	99	PRO	N-CA-C	5.62	119.90	111.14
1	ca	14	ALA	CA-C-N	5.62	128.02	120.50
1	ca	14	ALA	C-N-CA	5.62	128.02	120.50
1	cb	67	GLN	N-CA-C	5.62	118.17	111.71
1	cc	64	ALA	N-CA-C	-5.62	104.78	111.69
1	cf	142	VAL	N-CA-CB	5.62	119.00	110.58
1	cf	205	LEU	CA-C-N	5.62	130.69	121.87
1	cf	205	LEU	C-N-CA	5.62	130.69	121.87
1	cm	49	PRO	N-CA-CB	5.62	109.66	103.26
1	cp	129	ILE	N-CA-C	5.62	115.81	110.42
1	cr	25	LYS	CA-CB-CG	5.62	125.33	114.10
1	1f	208	ALA	CA-C-N	5.62	129.33	121.24
1	1f	208	ALA	C-N-CA	5.62	129.33	121.24
1	cE	120	HIS	CA-CB-CG	5.62	119.42	113.80
1	cR	87	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	cY	132	ARG	CB-CA-C	-5.62	101.83	110.81
1	d3	2	ILE	N-CA-C	5.62	117.40	108.87
1	dq	39	MET	CG-SD-CE	-5.62	88.55	100.90
1	dR	89	GLY	N-CA-C	5.62	123.80	112.34
1	dT	181	VAL	N-CA-C	5.62	115.81	110.42
1	e3	122	PRO	CA-C-N	5.62	125.54	119.76
1	e3	122	PRO	C-N-CA	5.62	125.54	119.76
1	e5	166	ASP	CA-C-N	5.62	128.12	120.54
1	e5	166	ASP	C-N-CA	5.62	128.12	120.54
1	eq	23	TRP	CA-CB-CG	5.62	124.27	113.60
1	eq	86	VAL	O-C-N	-5.62	116.94	122.67
1	ez	172	LEU	O-C-N	-5.62	116.17	122.12
1	eA	35	GLU	O-C-N	-5.62	114.71	122.46
1	eB	195	ASN	CA-CB-CG	-5.62	106.98	112.60
1	1s	77	ALA	N-CA-CB	-5.62	101.87	110.01
1	eI	222	GLY	CA-C-O	-5.62	114.97	120.75
1	eL	92	GLU	CA-C-N	5.62	125.94	119.93
1	eL	92	GLU	C-N-CA	5.62	125.94	119.93
1	eM	3	VAL	O-C-N	-5.62	116.09	122.72
1	eQ	195	ASN	CA-C-N	5.62	125.28	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eQ	195	ASN	C-N-CA	5.62	125.28	119.05
1	eU	33	SER	CA-C-O	-5.62	113.59	120.05
1	1u	143	ARG	CA-C-O	5.62	126.45	120.10
1	f8	185	MET	N-CA-C	5.62	118.17	111.71
1	f9	154	ARG	CB-CG-CD	5.62	124.22	111.30
1	fg	98	GLU	O-C-N	-5.62	116.54	121.31
1	fk	12	HIS	ND1-CE1-NE2	5.62	114.02	108.40
1	fp	50	GLN	CA-C-N	5.62	127.74	120.44
1	fp	50	GLN	C-N-CA	5.62	127.74	120.44
1	fr	172	LEU	O-C-N	-5.62	115.75	122.15
1	fy	128	GLU	O-C-N	-5.62	116.17	122.12
1	fA	63	GLN	CA-C-O	-5.62	114.92	120.82
1	fF	5	ASN	OD1-CG-ND2	-5.62	116.98	122.60
1	fG	112	GLN	CA-C-O	5.62	126.44	120.10
1	fO	44	SER	CA-C-O	5.62	126.23	119.43
1	fQ	222	GLY	CA-C-N	5.62	130.69	121.87
1	fQ	222	GLY	C-N-CA	5.62	130.69	121.87
1	g2	91	ILE	O-C-N	-5.62	117.19	123.26
1	1B	122	PRO	N-CA-CB	5.62	108.78	102.60
1	c	104	ILE	CA-C-O	-5.62	114.82	121.05
1	h	190	LEU	N-CA-C	5.62	117.85	111.11
1	p	26	VAL	N-CA-C	5.62	116.35	110.62
1	s	23	TRP	CA-C-N	5.62	128.15	120.46
1	s	23	TRP	C-N-CA	5.62	128.15	120.46
1	v	143	ARG	CB-CA-C	5.62	120.11	110.79
1	C	48	THR	CA-C-N	5.62	126.86	119.84
1	C	48	THR	C-N-CA	5.62	126.86	119.84
1	G	172	LEU	N-CA-C	5.62	117.40	111.28
1	X	106	GLY	CA-C-O	5.62	126.77	120.03
1	5	32	PHE	CB-CG-CD1	5.62	130.25	120.70
1	6	114	GLN	N-CA-C	5.62	117.85	111.11
1	g9	82	ARG	CA-C-O	5.61	126.44	120.10
1	g9	130	TYR	O-C-N	-5.61	116.29	122.07
1	g9	202	LEU	CA-C-O	5.61	126.44	120.10
1	gg	119	THR	N-CA-CB	5.61	118.47	110.16
1	gB	96	MET	CA-C-N	5.61	129.23	120.75
1	gB	96	MET	C-N-CA	5.61	129.23	120.75
1	gE	68	MET	O-C-N	-5.61	116.17	122.12
1	gI	143	ARG	CA-C-N	5.61	127.74	120.44
1	gI	143	ARG	C-N-CA	5.61	127.74	120.44
1	gM	152	ASP	CA-CB-CG	5.61	118.21	112.60
1	gV	74	ASN	CA-C-O	5.61	126.91	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gV	82	ARG	CA-C-N	5.61	128.84	120.31
1	gV	82	ARG	C-N-CA	5.61	128.84	120.31
1	gW	76	GLU	CA-C-N	5.61	127.74	120.44
1	gW	76	GLU	C-N-CA	5.61	127.74	120.44
1	1H	133	TRP	CB-CG-CD2	-5.61	118.94	126.80
1	h6	95	GLN	CA-C-O	5.61	127.80	121.51
1	h9	119	THR	CA-C-N	5.61	132.26	121.54
1	h9	119	THR	C-N-CA	5.61	132.26	121.54
1	ho	226	HIS	O-C-N	-5.61	116.82	123.22
1	1K	25	LYS	N-CA-C	5.61	117.48	111.36
1	hA	179	GLN	CA-C-O	5.61	126.50	120.55
1	hG	18	ARG	CA-C-N	5.61	127.74	120.44
1	hG	18	ARG	C-N-CA	5.61	127.74	120.44
1	hL	8	GLY	O-C-N	-5.61	115.95	123.64
1	hN	159	GLU	CB-CA-C	5.61	117.46	109.38
1	hZ	22	ALA	N-CA-C	5.61	117.08	111.07
1	i6	41	SER	CB-CA-C	-5.61	101.47	110.79
1	ib	62	HIS	CA-CB-CG	-5.61	108.19	113.80
1	1P	126	VAL	N-CA-C	5.61	121.01	109.34
1	1P	219	GLN	O-C-N	-5.61	116.76	123.27
1	iG	34	PRO	O-C-N	5.61	128.96	122.17
1	j0	207	PRO	N-CA-C	5.61	121.14	113.84
1	ja	127	GLY	O-C-N	-5.61	116.75	122.19
1	jg	86	VAL	N-CA-C	5.61	117.71	109.63
1	1V	72	THR	N-CA-C	5.61	117.08	111.07
1	ju	33	SER	N-CA-C	-5.61	102.37	110.40
1	jF	115	ILE	CB-CA-C	-5.61	104.56	112.14
1	jO	138	LEU	CB-CA-C	-5.61	101.47	110.79
1	jU	23	TRP	CE2-CD2-CE3	5.61	124.41	118.80
1	jV	119	THR	N-CA-C	-5.61	106.48	113.38
1	k3	124	ILE	CA-C-N	5.61	126.86	119.84
1	k3	124	ILE	C-N-CA	5.61	126.86	119.84
1	k8	183	ASN	N-CA-C	-5.61	105.93	112.89
1	kz	116	GLY	CA-C-O	5.61	127.06	121.00
1	kD	192	GLN	O-C-N	-5.61	116.17	122.12
1	24	19	THR	N-CA-C	5.61	117.08	111.07
1	kU	75	GLU	CA-C-N	5.61	127.80	120.28
1	kU	75	GLU	C-N-CA	5.61	127.80	120.28
1	l0	182	LYS	CA-C-N	5.61	128.26	120.29
1	l0	182	LYS	C-N-CA	5.61	128.26	120.29
1	27	192	GLN	N-CA-CB	5.61	118.15	110.01
1	li	87	HIS	N-CA-C	5.61	122.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	201	ILE	N-CA-C	5.61	115.81	110.42
1	lE	84	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	lE	143	ARG	CD-NE-CZ	-5.61	116.54	124.40
1	lE	164	TYR	CB-CA-C	5.61	120.11	110.79
1	lL	226	HIS	N-CA-C	-5.61	106.60	113.50
1	2c	152	ASP	CA-CB-CG	-5.61	106.99	112.60
1	2e	172	LEU	CA-C-O	5.61	126.71	120.82
1	2g	104	ILE	CA-C-O	5.61	126.58	120.57
1	2o	166	ASP	N-CA-CB	-5.61	101.57	109.94
1	2p	112	GLN	O-C-N	-5.61	116.17	122.12
1	2s	69	LEU	O-C-N	-5.61	116.19	122.03
1	2C	184	TRP	CA-C-N	5.61	127.80	120.28
1	2C	184	TRP	C-N-CA	5.61	127.80	120.28
1	2L	21	ASN	CA-CB-CG	-5.61	106.99	112.60
1	2V	31	ALA	O-C-N	-5.61	114.26	121.33
1	2Z	41	SER	CA-C-N	5.61	127.80	120.28
1	2Z	41	SER	C-N-CA	5.61	127.80	120.28
1	3b	105	ALA	N-CA-C	-5.61	106.10	113.17
1	3j	131	LYS	O-C-N	-5.61	116.17	122.12
1	3j	164	TYR	N-CA-CB	5.61	118.86	110.22
1	3r	194	ALA	O-C-N	-5.61	116.62	122.96
1	3v	36	VAL	CA-CB-CG2	5.61	119.94	110.40
1	3K	139	ASN	CA-C-N	5.61	127.74	120.44
1	3K	139	ASN	C-N-CA	5.61	127.74	120.44
1	3S	133	TRP	CB-CG-CD2	-5.61	118.94	126.80
1	4g	156	GLY	O-C-N	-5.61	116.16	121.77
1	4k	157	PRO	CA-C-N	5.61	131.36	122.60
1	4k	157	PRO	C-N-CA	5.61	131.36	122.60
1	4p	82	ARG	NH1-CZ-NH2	-5.61	112.00	119.30
1	4x	43	LEU	N-CA-CB	-5.61	101.65	110.46
1	4z	123	PRO	CA-C-O	-5.61	114.89	122.08
1	52	205	LEU	CA-C-O	5.61	126.37	120.42
1	58	139	ASN	CB-CG-ND2	-5.61	107.98	116.40
1	59	132	ARG	O-C-N	-5.61	116.17	122.12
1	5a	227	LYS	CA-C-O	5.61	125.80	119.18
1	5f	137	GLY	CA-C-O	-5.61	114.97	120.75
1	5h	7	GLN	CB-CG-CD	5.61	122.14	112.60
1	5I	44	SER	CA-C-N	5.61	127.80	120.28
1	5I	44	SER	C-N-CA	5.61	127.80	120.28
1	61	138	LEU	CA-C-N	5.61	127.80	120.28
1	61	138	LEU	C-N-CA	5.61	127.80	120.28
1	62	4	GLN	CB-CG-CD	5.61	122.14	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	154	ARG	CA-CB-CG	5.61	125.33	114.10
1	6t	224	PRO	O-C-N	5.61	129.82	123.03
1	6G	199	LYS	CB-CA-C	-5.61	101.47	110.79
1	6J	178	SER	N-CA-C	5.61	117.98	110.35
1	6T	172	LEU	O-C-N	-5.61	115.65	122.22
1	79	179	GLN	N-CA-CB	5.61	118.48	110.06
1	7a	179	GLN	O-C-N	5.61	128.55	122.15
1	7h	92	GLU	CA-C-N	5.61	126.10	120.04
1	7h	92	GLU	C-N-CA	5.61	126.10	120.04
1	7j	68	MET	CA-C-O	-5.61	113.76	120.10
1	7s	209	ALA	N-CA-C	5.61	117.98	110.35
1	7u	135	ILE	CA-C-O	5.61	126.79	120.95
1	7G	99	PRO	CB-CA-C	-5.61	103.75	111.21
1	7U	12	HIS	CB-CG-CD2	-5.61	123.90	131.20
1	86	12	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	8c	87	HIS	N-CA-C	5.61	118.35	108.75
1	8v	99	PRO	CB-CA-C	5.61	118.25	111.46
1	8B	11	VAL	O-C-N	-5.61	116.72	122.95
1	8D	32	PHE	N-CA-CB	5.61	118.49	109.28
1	8H	155	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	8I	110	THR	N-CA-CB	5.61	118.39	110.36
1	8O	156	GLY	CA-C-O	-5.61	113.49	121.52
1	8Q	185	MET	CA-C-N	5.61	128.12	120.54
1	8Q	185	MET	C-N-CA	5.61	128.12	120.54
1	8T	165	VAL	CB-CA-C	-5.61	104.56	112.14
1	8W	101	GLY	N-CA-C	5.61	119.95	112.77
1	8Z	200	THR	N-CA-C	5.61	117.20	111.14
1	95	68	MET	N-CA-C	5.61	117.40	111.28
1	9b	92	GLU	N-CA-C	5.61	117.64	109.84
1	9d	29	GLU	N-CA-C	5.61	117.20	111.14
1	9j	95	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	9k	37	ILE	O-C-N	5.61	124.01	120.42
1	9l	128	GLU	N-CA-C	5.61	117.85	111.11
1	9t	158	LYS	CA-C-O	5.61	125.37	119.03
1	9v	126	VAL	N-CA-C	5.61	116.34	110.62
1	9y	87	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	9E	84	HIS	CA-C-O	-5.61	115.55	120.60
1	9E	184	TRP	CA-C-N	5.61	127.80	120.28
1	9E	184	TRP	C-N-CA	5.61	127.80	120.28
1	9G	9	GLN	O-C-N	-5.61	115.61	122.34
1	9W	155	GLN	O-C-N	-5.61	116.82	123.22
1	9Z	224	PRO	N-CA-CB	5.61	108.23	103.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a6	80	TRP	CZ3-CH2-CZ2	-5.61	114.20	121.50
1	aa	191	VAL	O-C-N	-5.61	116.42	121.87
1	at	30	LYS	CA-C-N	5.61	134.16	121.53
1	at	30	LYS	C-N-CA	5.61	134.16	121.53
1	aE	6	LEU	N-CA-CB	5.61	118.62	110.26
1	aG	121	ASN	CA-C-O	-5.61	114.34	119.62
1	aR	56	LEU	N-CA-CB	5.61	118.37	110.12
1	b4	4	GLN	N-CA-C	5.61	117.98	110.35
1	bm	147	PRO	N-CD-CG	5.61	111.62	103.20
1	bs	104	ILE	CA-C-O	-5.61	114.90	120.85
1	bu	139	ASN	O-C-N	-5.61	116.29	122.07
1	bJ	79	GLU	CA-C-N	5.61	128.12	120.54
1	bJ	79	GLU	C-N-CA	5.61	128.12	120.54
1	bP	190	LEU	N-CA-C	5.61	119.97	113.18
1	bQ	23	TRP	CA-C-N	5.61	128.15	120.46
1	bQ	23	TRP	C-N-CA	5.61	128.15	120.46
1	bU	192	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	ch	170	LYS	CA-C-N	5.61	127.80	120.28
1	ch	170	LYS	C-N-CA	5.61	127.80	120.28
1	cM	228	ALA	N-CA-CB	-5.61	102.03	110.73
1	cW	4	GLN	CA-C-N	5.61	129.33	121.02
1	cW	4	GLN	C-N-CA	5.61	129.33	121.02
1	cZ	36	VAL	CA-CB-CG1	5.61	119.94	110.40
1	d0	50	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	d7	167	ARG	CA-C-O	5.61	126.50	120.55
1	dd	92	GLU	CA-C-N	5.61	126.86	119.84
1	dd	92	GLU	C-N-CA	5.61	126.86	119.84
1	dj	43	LEU	CA-C-O	5.61	126.44	120.10
1	dn	50	GLN	CA-C-N	5.61	128.07	120.44
1	dn	50	GLN	C-N-CA	5.61	128.07	120.44
1	dq	149	SER	N-CA-C	5.61	117.45	108.41
1	dS	115	ILE	O-C-N	-5.61	116.42	121.87
1	dW	14	ALA	CA-C-N	5.61	128.02	120.50
1	dW	14	ALA	C-N-CA	5.61	128.02	120.50
1	e3	33	SER	O-C-N	-5.61	118.12	121.71
1	e7	104	ILE	CA-C-O	-5.61	114.82	121.05
1	eI	139	ASN	CA-C-O	5.61	126.50	120.55
1	eO	163	ASP	CA-C-N	5.61	127.74	120.44
1	eO	163	ASP	C-N-CA	5.61	127.74	120.44
1	f3	26	VAL	N-CA-C	5.61	116.25	110.36
1	f8	40	PHE	O-C-N	5.61	128.07	122.12
1	1v	62	HIS	CA-C-N	5.61	128.26	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1v	62	HIS	C-N-CA	5.61	128.26	120.29
1	fb	128	GLU	N-CA-C	5.61	117.40	111.28
1	fp	74	ASN	CA-CB-CG	5.61	118.21	112.60
1	fq	16	SER	O-C-N	-5.61	116.30	121.30
1	fC	37	ILE	O-C-N	-5.61	116.08	120.07
1	fE	19	THR	CA-C-O	-5.61	114.60	120.55
1	fG	36	VAL	CA-C-N	5.61	125.82	120.43
1	fG	36	VAL	C-N-CA	5.61	125.82	120.43
1	fP	172	LEU	N-CA-C	5.61	117.08	111.07
1	c	119	THR	N-CA-C	-5.61	106.27	113.23
1	h	84	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	j	177	ALA	N-CA-C	5.61	122.76	110.80
1	1	84	HIS	CB-CA-C	-5.61	102.84	109.47
1	q	47	ALA	N-CA-C	5.61	118.42	110.50
1	t	26	VAL	CB-CA-C	5.61	119.16	111.97
1	7	100	ARG	N-CA-CB	-5.61	101.47	110.51
1	9	29	GLU	N-CA-C	5.61	117.40	111.28
1	9	93	PRO	N-CA-C	5.61	120.02	111.15
1	gb	110	THR	N-CA-C	-5.61	100.78	109.14
1	gf	106	GLY	O-C-N	-5.61	115.91	122.31
1	1C	147	PRO	N-CA-C	5.61	120.03	111.11
1	gp	182	LYS	CA-C-N	5.61	128.26	120.29
1	gp	182	LYS	C-N-CA	5.61	128.26	120.29
1	gC	13	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	1F	189	LEU	CA-C-N	5.61	128.59	120.79
1	1F	189	LEU	C-N-CA	5.61	128.59	120.79
1	gZ	15	ILE	CA-CB-CG1	5.61	119.94	110.40
1	h5	176	GLN	CB-CA-C	5.61	119.26	111.63
1	h6	208	ALA	N-CA-C	5.61	119.22	112.93
1	hj	51	ASP	CA-C-N	5.61	127.73	120.44
1	hj	51	ASP	C-N-CA	5.61	127.73	120.44
1	hs	76	GLU	O-C-N	-5.61	116.17	122.12
1	hH	189	LEU	N-CA-C	5.61	117.40	111.28
1	hN	169	TYR	N-CA-C	5.61	117.08	111.07
1	i9	6	LEU	CB-CA-C	-5.61	101.10	110.19
1	iC	172	LEU	N-CA-C	5.61	118.93	111.75
1	iQ	59	VAL	CA-C-O	-5.61	114.16	120.95
1	iS	41	SER	N-CA-C	5.61	117.40	111.28
1	j2	187	GLU	N-CA-CB	5.61	118.98	110.28
1	j5	218	CYS	CA-C-O	5.61	128.15	119.96
1	1U	207	PRO	N-CA-C	-5.61	106.79	114.98
1	jc	208	ALA	N-CA-C	5.61	118.86	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	78	ALA	CB-CA-C	-5.61	102.07	110.88
1	jU	115	ILE	CA-C-N	5.61	126.31	120.03
1	jU	115	ILE	C-N-CA	5.61	126.31	120.03
1	k1	62	HIS	CA-CB-CG	-5.61	108.19	113.80
1	21	16	SER	N-CA-CB	5.61	117.58	110.23
1	23	185	MET	N-CA-CB	5.61	118.37	110.12
1	24	149	SER	O-C-N	-5.61	116.54	123.44
1	kP	66	MET	N-CA-C	5.61	118.16	111.71
1	kS	59	VAL	N-CA-CB	5.61	116.94	110.49
1	l2	141	ILE	CA-C-O	5.61	127.12	121.17
1	l8	35	GLU	O-C-N	-5.61	115.65	122.22
1	29	171	THR	O-C-N	-5.61	116.17	122.12
1	lG	195	ASN	CA-CB-CG	-5.61	106.99	112.60
1	2w	103	ASP	CA-C-N	5.61	128.44	120.53
1	2w	103	ASP	C-N-CA	5.61	128.44	120.53
1	2Q	168	PHE	N-CA-CB	-5.61	101.64	110.06
1	37	200	THR	N-CA-C	5.61	117.84	111.11
1	38	132	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	3h	114	GLN	O-C-N	-5.61	116.29	122.07
1	3n	18	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	4j	132	ARG	CA-C-O	-5.61	114.47	120.42
1	4N	118	MET	CB-CA-C	5.61	121.72	109.99
1	51	140	LYS	N-CA-C	5.61	118.33	111.82
1	5p	16	SER	N-CA-C	5.61	116.89	109.93
1	5H	12	HIS	CA-C-O	5.61	126.88	120.54
1	5O	160	PRO	O-C-N	-5.61	115.06	122.64
1	6E	37	ILE	O-C-N	-5.61	116.83	120.42
1	6K	218	CYS	O-C-N	-5.61	115.78	122.63
1	7d	48	THR	O-C-N	-5.61	115.24	121.53
1	7e	201	ILE	N-CA-C	5.61	116.34	110.62
1	7R	84	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	7U	67	GLN	O-C-N	-5.61	116.03	122.09
1	80	97	ARG	N-CA-CB	5.61	118.38	109.51
1	89	137	GLY	O-C-N	-5.61	116.75	122.19
1	9i	117	TRP	CE2-CD2-CE3	5.61	124.41	118.80
1	Y	39	MET	N-CA-C	5.61	117.40	111.28
1	a6	101	GLY	CA-C-N	5.61	130.09	120.72
1	a6	101	GLY	C-N-CA	5.61	130.09	120.72
1	a9	32	PHE	CA-CB-CG	-5.61	108.19	113.80
1	15	139	ASN	N-CA-C	5.61	117.40	111.28
1	bp	176	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	bz	174	ALA	N-CA-CB	-5.61	101.93	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bF	148	THR	O-C-N	-5.61	117.68	123.29
1	bT	3	VAL	N-CA-C	5.61	115.97	108.11
1	bT	63	GLN	N-CA-C	5.61	119.97	113.18
1	c5	92	GLU	CA-C-N	5.61	125.94	119.93
1	c5	92	GLU	C-N-CA	5.61	125.94	119.93
1	cq	197	ASP	CA-CB-CG	-5.61	106.99	112.60
1	cx	13	GLN	CB-CG-CD	5.61	122.14	112.60
1	cJ	19	THR	OG1-CB-CG2	-5.61	98.08	109.30
1	dv	69	LEU	CA-C-N	5.61	127.74	120.44
1	dv	69	LEU	C-N-CA	5.61	127.74	120.44
1	dC	91	ILE	CA-C-N	5.61	128.65	120.51
1	dC	91	ILE	C-N-CA	5.61	128.65	120.51
1	e0	195	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	e7	92	GLU	N-CA-CB	-5.61	103.24	110.03
1	ex	85	PRO	CA-C-N	5.61	129.66	121.80
1	ex	85	PRO	C-N-CA	5.61	129.66	121.80
1	ey	97	ARG	O-C-N	-5.61	116.62	122.96
1	eV	137	GLY	N-CA-C	5.61	119.47	112.73
1	f9	171	THR	N-CA-C	-5.61	105.07	111.07
1	fi	68	MET	N-CA-C	5.61	117.40	111.28
1	fj	149	SER	CA-C-N	5.61	129.82	120.62
1	fj	149	SER	C-N-CA	5.61	129.82	120.62
1	1w	97	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	fo	218	CYS	N-CA-CB	5.61	119.06	110.70
1	1y	90	PRO	N-CA-C	5.61	120.04	111.34
1	1y	131	LYS	N-CA-C	-5.61	105.06	111.07
1	g4	185	MET	CG-SD-CE	-5.61	88.55	100.90
1	u	35	GLU	CA-C-O	5.61	126.28	119.38
1	L	18	ARG	N-CA-CB	5.61	118.86	110.22
1	L	79	GLU	O-C-N	-5.61	116.17	122.12
1	gf	180	GLU	N-CA-C	5.61	117.84	111.11
1	gx	109	SER	N-CA-CB	5.61	120.11	110.68
1	1E	221	VAL	N-CA-C	5.61	117.02	110.62
1	gU	48	THR	N-CA-CB	5.61	118.50	110.03
1	h3	161	PHE	CA-C-N	5.61	132.26	121.54
1	h3	161	PHE	C-N-CA	5.61	132.26	121.54
1	hb	172	LEU	N-CA-C	5.61	117.39	111.28
1	ho	198	CYS	O-C-N	-5.61	115.37	122.27
1	hq	56	LEU	O-C-N	-5.61	116.29	122.07
1	1K	114	GLN	N-CA-C	5.61	117.39	111.28
1	hL	62	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	hV	200	THR	N-CA-CB	5.61	118.30	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i2	146	SER	CA-C-N	-5.61	114.22	120.45
1	i2	146	SER	C-N-CA	-5.61	114.22	120.45
1	ia	33	SER	CA-C-O	-5.61	115.18	120.34
1	1Q	228	ALA	N-CA-C	-5.61	106.79	113.97
1	iA	158	LYS	CA-C-N	5.61	130.58	121.83
1	iA	158	LYS	C-N-CA	5.61	130.58	121.83
1	iD	138	LEU	CA-C-N	5.61	127.80	120.28
1	iD	138	LEU	C-N-CA	5.61	127.80	120.28
1	iG	63	GLN	N-CA-C	5.61	117.07	111.07
1	iL	113	GLU	N-CA-C	5.61	117.39	111.28
1	iN	128	GLU	CA-C-N	5.61	128.15	120.46
1	iN	128	GLU	C-N-CA	5.61	128.15	120.46
1	j1	70	LYS	CA-C-O	5.61	126.50	120.55
1	je	198	CYS	N-CA-C	-5.61	106.60	113.50
1	jg	85	PRO	CA-C-O	-5.61	115.15	121.43
1	1V	65	ALA	CA-C-N	5.61	128.26	120.29
1	1V	65	ALA	C-N-CA	5.61	128.26	120.29
1	jn	200	THR	N-CA-C	5.61	117.39	111.28
1	jD	87	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	jJ	110	THR	N-CA-C	5.61	117.98	110.35
1	jS	197	ASP	CA-C-O	-5.61	114.90	121.07
1	jW	40	PHE	CA-C-O	5.61	126.71	120.82
1	k3	124	ILE	N-CA-CB	5.61	116.23	110.23
1	kg	39	MET	CA-C-O	5.61	126.50	120.55
1	ks	62	HIS	CG-CD2-NE2	-5.61	101.59	107.20
1	kz	192	GLN	CB-CG-CD	5.61	122.14	112.60
1	kK	30	LYS	CA-C-O	5.61	125.55	119.15
1	kL	140	LYS	CG-CD-CE	5.61	124.20	111.30
1	kO	187	GLU	CA-C-N	5.61	128.26	120.29
1	kO	187	GLU	C-N-CA	5.61	128.26	120.29
1	kV	98	GLU	O-C-N	-5.61	115.47	121.42
1	kV	171	THR	CA-C-N	5.61	130.09	120.72
1	kV	171	THR	C-N-CA	5.61	130.09	120.72
1	lf	138	LEU	O-C-N	-5.61	116.17	122.12
1	lm	78	ALA	O-C-N	-5.61	114.81	122.33
1	lq	77	ALA	CA-C-N	5.61	127.73	120.44
1	lq	77	ALA	C-N-CA	5.61	127.73	120.44
1	29	188	THR	O-C-N	-5.61	116.17	122.12
1	2n	192	GLN	CA-C-O	5.61	126.37	120.42
1	2p	120	HIS	CB-CG-CD2	-5.61	123.91	131.20
1	2A	153	ILE	O-C-N	-5.61	117.35	122.79
1	2E	53	ASN	OD1-CG-ND2	5.61	128.21	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2I	139	ASN	CA-CB-CG	-5.61	106.99	112.60
1	32	187	GLU	N-CA-C	5.61	117.07	111.07
1	3i	121	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	3s	71	GLU	CA-C-O	5.61	126.44	120.10
1	3K	182	LYS	N-CA-C	5.61	117.39	111.28
1	3V	12	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	3V	168	PHE	O-C-N	-5.61	116.29	122.07
1	40	210	THR	N-CA-CB	5.61	118.98	110.45
1	45	154	ARG	CA-C-O	5.61	126.76	120.70
1	4f	226	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	4j	149	SER	O-C-N	-5.61	116.24	122.86
1	4o	5	ASN	O-C-N	-5.61	116.69	123.03
1	4r	98	GLU	O-C-N	-5.61	116.31	121.30
1	4x	7	GLN	O-C-N	-5.61	116.12	122.97
1	54	78	ALA	N-CA-C	5.61	118.16	111.71
1	5a	16	SER	O-C-N	-5.61	116.31	121.30
1	5c	107	THR	CA-CB-OG1	5.61	118.02	109.60
1	5g	121	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	5i	168	PHE	CA-CB-CG	-5.61	108.19	113.80
1	5D	175	GLU	CG-CD-OE2	5.61	131.30	118.40
1	5F	184	TRP	N-CA-C	5.61	117.39	111.28
1	5I	186	THR	CA-C-N	5.61	128.07	120.44
1	5I	186	THR	C-N-CA	5.61	128.07	120.44
1	5L	95	GLN	CB-CG-CD	5.61	122.14	112.60
1	5N	109	SER	N-CA-CB	5.61	120.24	110.81
1	5O	162	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	5Q	185	MET	N-CA-CB	5.61	118.37	110.12
1	5Y	12	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	6q	114	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	6Q	112	GLN	CA-C-O	-5.61	114.47	120.42
1	6U	140	LYS	N-CA-CB	5.61	118.10	109.91
1	71	167	ARG	CA-C-N	5.61	128.59	120.79
1	71	167	ARG	C-N-CA	5.61	128.59	120.79
1	74	20	LEU	N-CA-CB	5.61	118.37	110.12
1	77	174	ALA	N-CA-C	5.61	117.40	111.28
1	7f	95	GLN	OE1-CD-NE2	5.61	128.21	122.60
1	7n	83	LEU	N-CA-C	-5.61	106.57	113.41
1	7r	184	TRP	CA-C-O	5.61	126.50	120.55
1	7L	217	ALA	N-CA-C	5.61	117.31	110.41
1	7S	150	ILE	CA-CB-CG1	5.61	119.94	110.40
1	7W	229	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	7X	166	ASP	N-CA-CB	-5.61	101.25	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	85	108	THR	O-C-N	-5.61	114.93	122.22
1	8i	76	GLU	O-C-N	-5.61	115.75	122.15
1	8k	159	GLU	O-C-N	-5.61	116.19	121.35
1	8y	172	LEU	CA-C-N	5.61	127.80	120.28
1	8y	172	LEU	C-N-CA	5.61	127.80	120.28
1	8G	219	GLN	N-CA-C	5.61	117.07	111.07
1	8V	116	GLY	O-C-N	-5.61	116.58	122.13
1	8V	157	PRO	O-C-N	-5.61	115.22	122.23
1	8X	174	ALA	CA-C-O	5.61	126.34	119.05
1	9a	91	ILE	O-C-N	-5.61	117.06	122.16
1	9i	22	ALA	O-C-N	-5.61	115.75	122.15
1	9N	195	ASN	CA-C-N	5.61	126.85	119.84
1	9N	195	ASN	C-N-CA	5.61	126.85	119.84
1	Z	92	GLU	CA-C-O	-5.61	112.90	118.34
1	ab	138	LEU	O-C-N	-5.61	116.17	122.12
1	ac	173	ARG	N-CA-C	5.61	117.40	111.28
1	ai	210	THR	N-CA-CB	5.61	119.31	110.56
1	ap	64	ALA	CA-C-O	5.61	126.37	120.42
1	at	227	LYS	CA-C-O	5.61	127.06	120.89
1	aB	93	PRO	N-CA-C	5.61	124.03	112.47
1	aB	131	LYS	N-CA-C	5.61	117.84	111.11
1	aS	207	PRO	N-CA-CB	5.61	109.14	103.25
1	aX	80	TRP	N-CA-C	5.61	117.07	111.07
1	aY	217	ALA	CA-C-N	5.61	132.25	121.54
1	aY	217	ALA	C-N-CA	5.61	132.25	121.54
1	b4	56	LEU	CA-C-O	-5.61	114.92	120.70
1	b4	173	ARG	N-CA-C	-5.61	105.93	112.89
1	16	98	GLU	CA-C-N	5.61	126.85	119.84
1	16	98	GLU	C-N-CA	5.61	126.85	119.84
1	be	55	MET	CA-C-O	5.61	126.90	120.90
1	bi	113	GLU	O-C-N	-5.61	114.39	122.36
1	bi	149	SER	N-CA-CB	5.61	119.97	110.49
1	bq	179	GLN	O-C-N	-5.61	115.75	122.15
1	bt	227	LYS	CG-CD-CE	5.61	124.20	111.30
1	bv	228	ALA	O-C-N	-5.61	116.19	123.32
1	bF	75	GLU	CA-C-O	5.61	126.37	120.42
1	bF	154	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	bS	121	ASN	O-C-N	-5.61	114.87	121.32
1	bV	171	THR	CA-CB-CG2	5.61	120.04	110.50
1	1b	68	MET	CA-C-O	5.61	126.50	120.55
1	c0	87	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	cw	16	SER	N-CA-CB	5.61	120.36	110.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cF	62	HIS	N-CA-C	5.61	118.98	111.24
1	cX	181	VAL	N-CA-C	5.61	116.25	110.36
1	d2	201	ILE	CB-CA-C	5.61	119.71	112.14
1	dc	113	GLU	N-CA-C	5.61	117.39	111.28
1	dp	81	ASP	CA-CB-CG	5.61	118.21	112.60
1	ds	191	VAL	CA-CB-CG2	-5.61	100.86	110.40
1	dw	58	THR	CA-CB-OG1	5.61	118.02	109.60
1	dX	80	TRP	CB-CG-CD2	5.61	134.66	126.80
1	ef	141	ILE	N-CA-C	5.61	116.34	110.62
1	eg	18	ARG	CG-CD-NE	-5.61	99.66	112.00
1	ej	142	VAL	CA-C-O	-5.61	115.22	121.05
1	ek	51	ASP	N-CA-C	5.61	117.40	111.28
1	em	90	PRO	CA-C-O	-5.61	115.05	121.56
1	eR	100	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	1u	85	PRO	CB-CA-C	5.61	120.82	111.56
1	f2	84	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	f2	134	ILE	CB-CA-C	-5.61	104.57	112.14
1	f3	62	HIS	N-CA-C	5.61	119.37	111.52
1	f9	173	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	f9	210	THR	CA-C-N	5.61	127.80	120.28
1	f9	210	THR	C-N-CA	5.61	127.80	120.28
1	fi	184	TRP	CB-CG-CD1	-5.61	118.48	126.90
1	fl	32	PHE	CA-C-N	5.61	135.49	121.80
1	fl	32	PHE	C-N-CA	5.61	135.49	121.80
1	fn	62	HIS	ND1-CG-CD2	5.61	111.71	106.10
1	fC	64	ALA	CB-CA-C	-5.61	102.03	110.90
1	fZ	98	GLU	O-C-N	-5.61	115.96	121.18
1	e	191	VAL	CB-CA-C	-5.61	104.48	112.22
1	2	45	GLU	O-C-N	-5.61	116.05	122.89
1	K	189	LEU	CA-C-N	5.61	127.80	120.28
1	K	189	LEU	C-N-CA	5.61	127.80	120.28
1	8	11	VAL	CA-C-N	-5.61	114.98	122.72
1	8	11	VAL	C-N-CA	-5.61	114.98	122.72
1	g9	137	GLY	O-C-N	5.61	127.68	122.13
1	ga	103	ASP	N-CA-C	5.61	119.30	112.23
1	gm	90	PRO	N-CA-CB	5.61	109.14	103.25
1	gH	156	GLY	CA-C-N	5.61	126.85	119.84
1	gH	156	GLY	C-N-CA	5.61	126.85	119.84
1	h4	199	LYS	CA-C-O	-5.61	114.61	120.55
1	1H	3	VAL	O-C-N	-5.61	117.42	123.14
1	1K	15	ILE	N-CA-CB	5.61	117.45	110.05
1	hD	175	GLU	N-CA-CB	5.61	118.21	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ir	10	MET	O-C-N	5.61	130.09	122.57
1	iB	41	SER	N-CA-C	-5.61	105.08	111.14
1	iL	188	THR	CA-C-N	5.61	132.25	121.54
1	iL	188	THR	C-N-CA	5.61	132.25	121.54
1	iO	14	ALA	CA-C-N	5.61	128.15	120.35
1	iO	14	ALA	C-N-CA	5.61	128.15	120.35
1	jf	202	LEU	O-C-N	-5.61	116.17	122.12
1	jy	18	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	jU	23	TRP	CB-CG-CD2	5.61	134.65	126.80
1	jX	41	SER	CA-C-O	-5.61	114.61	120.55
1	k0	35	GLU	O-C-N	-5.61	114.24	122.43
1	kx	177	ALA	N-CA-C	-5.61	100.54	109.07
1	lm	44	SER	O-C-N	5.61	129.51	122.22
1	lq	200	THR	N-CA-C	5.61	117.39	111.28
1	ls	12	HIS	N-CA-CB	5.61	120.59	110.83
1	29	115	ILE	CA-C-N	5.61	126.33	119.99
1	29	115	ILE	C-N-CA	5.61	126.33	119.99
1	lF	130	TYR	O-C-N	-5.61	116.17	122.12
1	2i	205	LEU	CB-CA-C	-5.61	101.48	110.79
1	2x	193	ASN	CA-C-N	5.61	129.22	120.75
1	2x	193	ASN	C-N-CA	5.61	129.22	120.75
1	2E	23	TRP	CB-CG-CD1	-5.61	118.49	126.90
1	2L	23	TRP	CH2-CZ2-CE2	5.61	124.79	117.50
1	2V	69	LEU	O-C-N	-5.61	116.17	122.12
1	2V	87	HIS	CB-CG-ND1	5.61	131.11	122.70
1	3h	6	LEU	N-CA-C	5.61	118.48	110.24
1	3h	12	HIS	CA-C-N	5.61	130.74	123.00
1	3h	12	HIS	C-N-CA	5.61	130.74	123.00
1	4e	185	MET	O-C-N	-5.61	115.66	122.22
1	4o	149	SER	O-C-N	-5.61	116.24	122.86
1	4C	112	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	4R	100	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	4Z	39	MET	N-CA-C	5.61	117.84	111.11
1	5f	185	MET	N-CA-CB	5.61	118.37	110.12
1	5E	164	TYR	O-C-N	5.61	127.85	122.07
1	5R	135	ILE	O-C-N	-5.61	116.20	121.87
1	5Z	117	TRP	CG-CD2-CE3	-5.61	128.29	133.90
1	6y	161	PHE	N-CA-C	-5.61	105.17	111.28
1	71	69	LEU	O-C-N	-5.61	115.76	122.15
1	76	53	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	7c	87	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	7e	71	GLU	N-CA-C	5.61	117.84	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	84	228	ALA	O-C-N	-5.61	115.45	122.35
1	8a	142	VAL	N-CA-CB	-5.61	103.99	110.55
1	8N	116	GLY	N-CA-C	5.61	119.43	112.64
1	9j	148	THR	O-C-N	-5.61	116.93	123.27
1	9r	118	MET	N-CA-C	5.61	120.12	113.16
1	Y	170	LYS	CA-C-O	5.61	126.50	120.55
1	aa	209	ALA	O-C-N	-5.61	116.78	123.06
1	al	77	ALA	CB-CA-C	-5.61	102.07	110.88
1	aP	126	VAL	CB-CA-C	-5.61	103.86	112.05
1	aW	220	GLY	CA-C-O	5.61	127.73	121.67
1	b2	119	THR	CB-CA-C	5.61	119.75	109.99
1	bc	174	ALA	CA-C-N	5.61	128.67	120.71
1	bc	174	ALA	C-N-CA	5.61	128.67	120.71
1	19	191	VAL	CA-C-N	5.61	128.11	120.54
1	19	191	VAL	C-N-CA	5.61	128.11	120.54
1	c4	124	ILE	CA-C-N	-5.61	112.83	119.84
1	c4	124	ILE	C-N-CA	-5.61	112.83	119.84
1	cl	108	THR	CA-CB-CG2	-5.61	100.96	110.50
1	cU	34	PRO	O-C-N	-5.61	115.07	122.64
1	dn	229	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	1l	117	TRP	O-C-N	-5.61	115.76	122.15
1	dJ	117	TRP	O-C-N	-5.61	116.17	122.12
1	dM	102	SER	CA-C-N	5.61	128.25	120.29
1	dM	102	SER	C-N-CA	5.61	128.25	120.29
1	dN	197	ASP	N-CA-C	-5.61	106.39	113.18
1	dU	219	GLN	N-CA-C	5.61	118.78	110.48
1	dY	76	GLU	N-CA-CB	5.61	118.14	110.01
1	e8	182	LYS	N-CA-CB	5.61	118.47	110.06
1	ea	108	THR	OG1-CB-CG2	-5.61	98.08	109.30
1	eg	114	GLN	OE1-CD-NE2	5.61	128.21	122.60
1	ej	199	LYS	CA-C-N	5.61	127.73	120.44
1	ej	199	LYS	C-N-CA	5.61	127.73	120.44
1	eI	176	GLN	O-C-N	-5.61	115.58	122.25
1	1t	219	GLN	O-C-N	5.61	130.03	122.96
1	eU	143	ARG	CA-C-N	5.61	128.25	120.29
1	eU	143	ARG	C-N-CA	5.61	128.25	120.29
1	f4	131	LYS	CA-C-N	5.61	127.80	120.28
1	f4	131	LYS	C-N-CA	5.61	127.80	120.28
1	fl	136	LEU	N-CA-C	5.61	117.39	111.28
1	fp	164	TYR	CA-C-N	5.61	127.63	120.56
1	fp	164	TYR	C-N-CA	5.61	127.63	120.56
1	fs	76	GLU	N-CA-C	5.61	117.39	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ft	226	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	fz	126	VAL	N-CA-CB	5.61	117.11	110.55
1	fT	56	LEU	CA-C-N	5.61	127.80	120.28
1	fT	56	LEU	C-N-CA	5.61	127.80	120.28
1	o	41	SER	N-CA-C	5.61	117.39	111.28
1	R	204	ALA	CA-C-N	5.61	127.80	120.28
1	R	204	ALA	C-N-CA	5.61	127.80	120.28
1	gc	182	LYS	CA-C-N	5.61	127.73	120.44
1	gc	182	LYS	C-N-CA	5.61	127.73	120.44
1	gj	72	THR	CA-C-O	-5.61	114.93	120.82
1	gv	143	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	gx	141	ILE	CA-CB-CG1	5.61	119.93	110.40
1	gB	84	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	gC	199	LYS	N-CA-C	5.61	118.93	111.75
1	gH	191	VAL	O-C-N	-5.61	116.06	121.83
1	gL	12	HIS	CB-CG-CD2	-5.61	123.91	131.20
1	1F	182	LYS	CA-C-N	5.61	127.80	120.28
1	1F	182	LYS	C-N-CA	5.61	127.80	120.28
1	1F	223	GLY	N-CA-C	5.61	123.78	112.34
1	1G	69	LEU	O-C-N	-5.61	116.30	122.07
1	gW	72	THR	N-CA-C	5.61	117.39	111.28
1	gZ	37	ILE	CA-C-N	5.61	125.14	119.19
1	gZ	37	ILE	C-N-CA	5.61	125.14	119.19
1	hk	215	MET	O-C-N	-5.61	115.37	122.27
1	ho	24	VAL	CA-C-O	-5.61	114.57	120.57
1	hu	161	PHE	CA-C-N	5.61	128.11	120.54
1	hu	161	PHE	C-N-CA	5.61	128.11	120.54
1	hM	198	CYS	N-CA-CB	-5.61	102.29	110.53
1	i2	95	GLN	CA-C-N	5.61	129.06	120.82
1	i2	95	GLN	C-N-CA	5.61	129.06	120.82
1	ic	169	TYR	CA-C-O	-5.61	113.52	119.97
1	if	182	LYS	CA-C-O	-5.61	114.90	120.90
1	ik	55	MET	CA-C-N	5.61	127.79	120.28
1	ik	55	MET	C-N-CA	5.61	127.79	120.28
1	ik	191	VAL	CA-C-O	5.61	126.80	120.85
1	il	86	VAL	N-CA-C	5.61	116.29	108.89
1	ip	16	SER	N-CA-CB	5.61	118.62	110.32
1	iB	130	TYR	CA-C-N	5.61	127.80	120.28
1	iB	130	TYR	C-N-CA	5.61	127.80	120.28
1	1R	134	ILE	N-CA-CB	5.61	117.11	110.55
1	iY	108	THR	CA-CB-OG1	5.61	118.01	109.60
1	j5	84	HIS	N-CA-C	5.61	117.75	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	218	CYS	CA-C-O	5.61	127.26	120.81
1	jk	120	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	jm	120	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	jv	18	ARG	NH1-CZ-NH2	-5.61	112.01	119.30
1	jx	126	VAL	CA-C-O	5.61	126.53	120.47
1	jB	218	CYS	N-CA-CB	5.61	119.97	110.49
1	jO	160	PRO	CA-C-N	5.61	127.79	120.28
1	jO	160	PRO	C-N-CA	5.61	127.79	120.28
1	jP	132	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	jR	188	THR	N-CA-CB	5.61	119.97	110.49
1	jY	41	SER	N-CA-C	-5.61	105.08	111.14
1	k6	135	ILE	N-CA-C	5.61	115.80	110.42
1	20	103	ASP	CA-C-N	5.61	127.63	120.56
1	20	103	ASP	C-N-CA	5.61	127.63	120.56
1	ka	121	ASN	CA-C-O	-5.61	114.17	119.55
1	kj	102	SER	CA-C-N	5.61	127.73	120.44
1	kj	102	SER	C-N-CA	5.61	127.73	120.44
1	kx	171	THR	N-CA-CB	5.61	118.36	110.12
1	kC	144	MET	N-CA-C	5.61	118.11	111.33
1	kP	55	MET	O-C-N	-5.61	116.29	122.07
1	kU	129	ILE	O-C-N	-5.61	116.42	121.91
1	kU	169	TYR	CA-C-N	5.61	127.73	120.44
1	kU	169	TYR	C-N-CA	5.61	127.73	120.44
1	lm	2	ILE	CA-C-N	5.61	128.71	120.91
1	lm	2	ILE	C-N-CA	5.61	128.71	120.91
1	ls	186	THR	N-CA-CB	5.61	119.00	110.14
1	lt	115	ILE	N-CA-CB	5.61	116.73	110.51
1	lw	115	ILE	O-C-N	-5.61	116.42	121.91
1	lw	229	ARG	CB-CA-C	5.61	120.30	111.72
1	lE	229	ARG	CA-C-N	5.61	128.14	120.35
1	lE	229	ARG	C-N-CA	5.61	128.14	120.35
1	lG	208	ALA	CA-C-O	5.61	125.91	119.35
1	lM	176	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	lM	211	LEU	CA-C-N	5.61	128.11	120.54
1	lM	211	LEU	C-N-CA	5.61	128.11	120.54
1	lO	100	ARG	O-C-N	-5.61	115.75	122.65
1	2b	62	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	2b	154	ARG	N-CA-C	5.61	122.74	110.80
1	2c	208	ALA	CA-C-O	-5.61	114.61	121.28
1	2F	92	GLU	N-CA-C	-5.61	103.10	110.39
1	2M	192	GLN	CB-CG-CD	5.61	122.13	112.60
1	2V	12	HIS	CB-CG-ND1	5.61	131.11	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	92	GLU	O-C-N	-5.61	115.66	121.60
1	35	5	ASN	CA-C-N	5.61	131.06	122.93
1	35	5	ASN	C-N-CA	5.61	131.06	122.93
1	3g	57	ASN	CB-CA-C	-5.61	99.91	110.67
1	3l	46	GLY	CA-C-N	5.61	128.81	120.90
1	3l	46	GLY	C-N-CA	5.61	128.81	120.90
1	3p	37	ILE	CB-CA-C	-5.61	108.41	114.35
1	3A	103	ASP	CA-C-N	5.61	128.14	120.46
1	3A	103	ASP	C-N-CA	5.61	128.14	120.46
1	3P	206	GLY	CA-C-N	5.61	126.47	120.47
1	3P	206	GLY	C-N-CA	5.61	126.47	120.47
1	3U	123	PRO	CB-CA-C	-5.61	102.31	111.56
1	3V	146	SER	O-C-N	-5.61	115.97	121.18
1	3W	9	GLN	CB-CG-CD	5.61	122.13	112.60
1	42	78	ALA	N-CA-C	5.61	117.07	111.07
1	4d	50	GLN	CG-CD-OE1	-5.61	109.58	120.80
1	4d	68	MET	CA-C-N	5.61	127.73	120.44
1	4d	68	MET	C-N-CA	5.61	127.73	120.44
1	4d	107	THR	CB-CA-C	-5.61	101.84	110.81
1	4k	13	GLN	CA-C-N	5.61	128.80	120.95
1	4k	13	GLN	C-N-CA	5.61	128.80	120.95
1	4t	62	HIS	N-CA-C	5.61	119.17	111.54
1	4B	24	VAL	O-C-N	-5.61	116.43	121.87
1	4C	172	LEU	CA-C-N	5.61	127.79	120.28
1	4C	172	LEU	C-N-CA	5.61	127.79	120.28
1	4O	20	LEU	O-C-N	5.61	128.06	122.12
1	4O	175	GLU	CB-CG-CD	-5.61	103.07	112.60
1	4V	167	ARG	NE-CZ-NH1	-5.61	115.89	121.50
1	4Z	182	LYS	CA-C-N	5.61	127.79	120.28
1	4Z	182	LYS	C-N-CA	5.61	127.79	120.28
1	54	35	GLU	CA-C-N	5.61	128.38	120.42
1	54	35	GLU	C-N-CA	5.61	128.38	120.42
1	5m	109	SER	O-C-N	-5.61	116.09	123.16
1	5o	120	HIS	CB-CA-C	5.61	119.66	109.62
1	5B	143	ARG	CA-C-O	5.61	126.71	120.82
1	5M	103	ASP	CA-C-N	5.61	128.14	120.46
1	5M	103	ASP	C-N-CA	5.61	128.14	120.46
1	5M	120	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	61	184	TRP	CA-C-N	5.61	128.25	120.29
1	61	184	TRP	C-N-CA	5.61	128.25	120.29
1	6c	152	ASP	O-C-N	-5.61	114.69	122.20
1	6d	19	THR	CA-C-N	5.61	128.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6d	19	THR	C-N-CA	5.61	128.07	120.44
1	6l	49	PRO	N-CA-CB	5.61	109.14	103.25
1	6C	6	LEU	O-C-N	-5.61	116.18	122.12
1	6E	4	GLN	CA-C-N	5.61	128.06	120.38
1	6E	4	GLN	C-N-CA	5.61	128.06	120.38
1	6G	123	PRO	N-CA-C	5.61	120.01	111.15
1	6Q	119	THR	CA-C-O	5.61	126.48	120.70
1	6S	18	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	6T	22	ALA	N-CA-C	5.61	118.33	111.82
1	6U	51	ASP	CA-CB-CG	-5.61	106.99	112.60
1	6X	166	ASP	CA-C-N	5.61	128.06	120.44
1	6X	166	ASP	C-N-CA	5.61	128.06	120.44
1	71	21	ASN	CA-C-N	5.61	127.73	120.44
1	71	21	ASN	C-N-CA	5.61	127.73	120.44
1	7c	58	THR	CA-CB-OG1	5.61	118.01	109.60
1	7l	165	VAL	O-C-N	5.61	127.61	121.83
1	7n	32	PHE	CA-CB-CG	-5.61	108.19	113.80
1	7E	131	LYS	CA-C-O	5.61	126.49	120.55
1	7E	170	LYS	CG-CD-CE	5.61	124.19	111.30
1	7Q	24	VAL	O-C-N	-5.61	116.43	121.87
1	7U	27	VAL	CA-CB-CG2	-5.61	100.87	110.40
1	7Y	116	GLY	CA-C-N	5.61	128.05	120.65
1	7Y	116	GLY	C-N-CA	5.61	128.05	120.65
1	80	137	GLY	N-CA-C	5.61	119.46	112.73
1	89	3	VAL	CA-C-N	5.61	132.25	121.54
1	89	3	VAL	C-N-CA	5.61	132.25	121.54
1	8a	13	GLN	OE1-CD-NE2	-5.61	116.99	122.60
1	8g	162	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	8k	101	GLY	CA-C-O	5.61	126.53	120.75
1	8r	194	ALA	N-CA-C	5.61	122.74	110.80
1	8u	127	GLY	CA-C-N	5.61	127.73	120.44
1	8u	127	GLY	C-N-CA	5.61	127.73	120.44
1	8z	114	GLN	CA-C-N	5.61	127.62	120.56
1	8z	114	GLN	C-N-CA	5.61	127.62	120.56
1	8E	62	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	8F	74	ASN	CA-C-N	5.61	128.05	120.65
1	8F	74	ASN	C-N-CA	5.61	128.05	120.65
1	8P	154	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	98	105	ALA	CA-C-N	5.61	131.11	121.07
1	98	105	ALA	C-N-CA	5.61	131.11	121.07
1	9f	154	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	9j	87	HIS	CA-C-N	5.61	129.22	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9j	87	HIS	C-N-CA	5.61	129.22	120.75
1	9q	97	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	9D	170	LYS	CA-C-O	5.61	126.36	120.42
1	9J	59	VAL	N-CA-C	5.61	116.64	109.30
1	9M	161	PHE	N-CA-C	5.61	117.84	111.11
1	9R	86	VAL	CA-CB-CG1	5.61	119.93	110.40
1	9U	164	TYR	CA-C-N	5.61	127.63	120.56
1	9U	164	TYR	C-N-CA	5.61	127.63	120.56
1	9Z	95	GLN	CA-C-N	5.61	132.25	121.54
1	9Z	95	GLN	C-N-CA	5.61	132.25	121.54
1	af	100	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	ah	183	ASN	CA-C-O	-5.61	114.61	120.55
1	ap	195	ASN	CB-CA-C	5.61	117.52	109.11
1	as	80	TRP	CA-C-N	5.61	127.79	120.28
1	as	80	TRP	C-N-CA	5.61	127.79	120.28
1	ax	166	ASP	O-C-N	-5.61	116.29	122.07
1	ax	214	MET	CG-SD-CE	-5.61	88.56	100.90
1	aG	128	GLU	N-CA-C	5.61	117.39	111.28
1	aR	79	GLU	CA-C-O	5.61	126.71	120.82
1	aV	84	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	aY	50	GLN	CA-C-N	5.61	127.73	120.44
1	aY	50	GLN	C-N-CA	5.61	127.73	120.44
1	aY	164	TYR	CG-CD1-CE1	-5.61	112.79	121.20
1	aZ	163	ASP	CB-CA-C	-5.61	102.08	110.88
1	bc	215	MET	N-CA-C	5.61	118.16	111.71
1	bk	24	VAL	N-CA-CB	5.61	117.75	110.57
1	bk	116	GLY	CA-C-O	-5.61	115.31	120.80
1	bq	143	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	18	164	TYR	CA-C-O	-5.61	114.61	120.55
1	bs	185	MET	N-CA-C	5.61	117.07	111.07
1	bx	23	TRP	N-CA-C	5.61	117.07	111.07
1	bz	53	ASN	OD1-CG-ND2	-5.61	116.99	122.60
1	bE	231	LEU	N-CA-CB	5.61	120.03	110.50
1	bP	95	GLN	O-C-N	-5.61	117.42	123.42
1	bU	225	GLY	CA-C-N	5.61	127.80	120.28
1	bU	225	GLY	C-N-CA	5.61	127.80	120.28
1	bW	201	ILE	O-C-N	-5.61	116.33	121.94
1	c9	62	HIS	O-C-N	-5.61	116.24	122.91
1	ca	93	PRO	CB-CA-C	-5.61	103.89	111.12
1	cd	192	GLN	N-CA-C	5.61	117.84	111.11
1	ch	74	ASN	CA-C-O	-5.61	114.93	120.82
1	cM	195	ASN	O-C-N	-5.61	115.15	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cU	18	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	d0	52	LEU	CA-C-N	5.61	127.79	120.28
1	d0	52	LEU	C-N-CA	5.61	127.79	120.28
1	d1	230	VAL	N-CA-CB	5.61	118.30	110.56
1	d5	103	ASP	CA-CB-CG	-5.61	106.99	112.60
1	db	129	ILE	N-CA-CB	5.61	117.11	110.55
1	dc	193	ASN	N-CA-C	-5.61	106.11	113.17
1	e0	67	GLN	N-CA-CB	5.61	118.36	110.12
1	eb	100	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	ee	117	TRP	CA-C-O	-5.61	114.61	120.55
1	ef	62	HIS	ND1-CG-CD2	5.61	111.71	106.10
1	ej	203	LYS	CA-C-N	5.61	127.79	120.28
1	ej	203	LYS	C-N-CA	5.61	127.79	120.28
1	1q	37	ILE	O-C-N	5.61	124.01	120.42
1	eo	185	MET	CG-SD-CE	-5.61	88.56	100.90
1	eC	210	THR	CA-C-N	5.61	127.79	120.28
1	eC	210	THR	C-N-CA	5.61	127.79	120.28
1	eE	17	PRO	CA-C-N	5.61	128.25	120.29
1	eE	17	PRO	C-N-CA	5.61	128.25	120.29
1	eF	198	CYS	N-CA-C	5.61	117.47	111.36
1	eU	108	THR	CA-C-O	5.61	126.12	119.56
1	eW	212	GLU	O-C-N	-5.61	116.26	122.09
1	eY	132	ARG	CG-CD-NE	-5.61	99.66	112.00
1	fn	168	PHE	CA-CB-CG	-5.61	108.19	113.80
1	fy	112	GLN	OE1-CD-NE2	5.61	128.21	122.60
1	fz	44	SER	N-CA-C	5.61	119.11	112.72
1	fJ	172	LEU	CA-C-N	5.61	128.25	120.29
1	fJ	172	LEU	C-N-CA	5.61	128.25	120.29
1	fX	118	MET	O-C-N	-5.61	114.45	122.41
1	1B	84	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	p	12	HIS	CB-CG-CD2	5.61	138.49	131.20
1	s	165	VAL	CA-C-O	5.61	126.36	119.58
1	y	91	ILE	O-C-N	-5.61	116.58	122.81
1	y	206	GLY	O-C-N	-5.61	116.16	121.77
1	H	179	GLN	N-CA-C	5.61	122.74	110.80
1	K	15	ILE	O-C-N	-5.61	116.69	122.63
1	O	186	THR	O-C-N	-5.61	116.18	122.12
1	U	169	TYR	CA-CB-CG	-5.61	103.81	113.90
1	9	18	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	g9	117	TRP	CB-CG-CD1	-5.61	118.49	126.90
1	gk	214	MET	N-CA-C	5.61	117.39	111.28
1	gz	24	VAL	CA-CB-CG2	-5.61	100.87	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gI	168	PHE	CA-C-N	5.61	127.79	120.28
1	gI	168	PHE	C-N-CA	5.61	127.79	120.28
1	gM	150	ILE	CB-CG1-CD1	5.61	125.57	113.80
1	gM	229	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	gR	113	GLU	O-C-N	5.61	128.06	122.12
1	gT	199	LYS	O-C-N	-5.61	116.18	122.12
1	h9	37	ILE	CA-C-O	-5.61	114.08	118.85
1	h9	61	GLY	N-CA-C	5.61	122.00	111.80
1	hc	215	MET	N-CA-CB	-5.61	101.26	110.40
1	hf	211	LEU	N-CA-C	-5.61	105.32	111.82
1	hj	224	PRO	N-CA-C	5.61	124.02	112.47
1	hp	103	ASP	CA-C-O	5.61	126.49	120.55
1	hr	205	LEU	O-C-N	5.61	128.54	122.15
1	hE	172	LEU	N-CA-CB	5.61	119.69	110.39
1	hG	136	LEU	N-CA-C	5.61	118.11	111.33
1	hL	207	PRO	N-CD-CG	5.61	111.61	103.20
1	hU	112	GLN	CA-C-N	5.61	127.79	120.28
1	hU	112	GLN	C-N-CA	5.61	127.79	120.28
1	i6	131	LYS	N-CA-C	-5.61	105.17	111.28
1	ib	18	ARG	NE-CZ-NH2	5.61	124.24	119.20
1	if	81	ASP	N-CA-C	-5.61	105.56	112.90
1	if	178	SER	CA-C-N	5.61	128.11	120.54
1	if	178	SER	C-N-CA	5.61	128.11	120.54
1	ir	63	GLN	OE1-CD-NE2	-5.61	117.00	122.60
1	iz	11	VAL	O-C-N	-5.61	117.21	123.26
1	iG	128	GLU	CA-C-N	5.61	128.14	120.46
1	iG	128	GLU	C-N-CA	5.61	128.14	120.46
1	iN	9	GLN	OE1-CD-NE2	-5.61	117.00	122.60
1	j4	191	VAL	CA-C-O	5.61	125.81	119.92
1	j5	39	MET	CA-C-O	5.61	126.36	120.42
1	jn	219	GLN	CA-C-N	5.61	130.68	122.10
1	jn	219	GLN	C-N-CA	5.61	130.68	122.10
1	jy	100	ARG	CA-C-N	5.61	126.20	119.98
1	jy	100	ARG	C-N-CA	5.61	126.20	119.98
1	jA	150	ILE	CA-C-O	5.61	126.57	120.57
1	1X	12	HIS	ND1-CE1-NE2	5.61	114.00	108.40
1	jL	165	VAL	CB-CA-C	-5.61	104.57	112.14
1	jM	113	GLU	N-CA-C	5.61	117.07	111.07
1	jY	114	GLN	CA-C-N	5.61	128.14	120.46
1	jY	114	GLN	C-N-CA	5.61	128.14	120.46
1	1Z	53	ASN	CA-CB-CG	-5.61	106.99	112.60
1	20	66	MET	O-C-N	5.61	127.84	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	228	ALA	N-CA-C	5.61	118.45	110.10
1	ki	218	CYS	CA-C-N	5.61	128.81	120.90
1	ki	218	CYS	C-N-CA	5.61	128.81	120.90
1	kn	171	THR	CA-C-O	5.61	126.49	120.55
1	kr	33	SER	CA-CB-OG	5.61	122.31	111.10
1	kw	21	ASN	CA-C-O	5.61	126.36	120.42
1	kC	103	ASP	CA-C-N	5.61	128.14	120.46
1	kC	103	ASP	C-N-CA	5.61	128.14	120.46
1	kD	162	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	kU	168	PHE	CB-CA-C	-5.61	101.32	110.85
1	kY	10	MET	CA-C-N	5.61	128.96	120.77
1	kY	10	MET	C-N-CA	5.61	128.96	120.77
1	kY	151	LEU	N-CA-C	5.61	118.11	111.33
1	l2	117	TRP	N-CA-C	5.61	117.39	111.28
1	lq	97	ARG	NH1-CZ-NH2	-5.61	112.01	119.30
1	lG	9	GLN	CA-C-N	5.61	132.25	121.54
1	lG	9	GLN	C-N-CA	5.61	132.25	121.54
1	2a	140	LYS	CB-CA-C	5.61	120.09	110.79
1	lM	37	ILE	N-CA-CB	5.61	114.03	110.50
1	lN	132	ARG	N-CA-C	5.61	118.11	111.33
1	lR	23	TRP	CB-CG-CD1	-5.61	118.49	126.90
1	2D	230	VAL	CA-C-O	5.61	126.28	120.39
1	33	107	THR	N-CA-CB	5.61	118.66	110.47
1	34	62	HIS	ND1-CG-CD2	5.61	111.70	106.10
1	3f	195	ASN	CA-C-N	5.61	126.85	119.84
1	3f	195	ASN	C-N-CA	5.61	126.85	119.84
1	3x	229	ARG	CA-C-N	5.61	130.56	122.77
1	3x	229	ARG	C-N-CA	5.61	130.56	122.77
1	3y	87	HIS	CA-CB-CG	-5.61	108.19	113.80
1	3C	100	ARG	NE-CZ-NH1	5.61	127.11	121.50
1	3H	143	ARG	NH1-CZ-NH2	-5.61	112.01	119.30
1	3L	185	MET	CA-C-O	5.61	126.36	120.42
1	3V	67	GLN	N-CA-C	5.61	117.39	111.28
1	4b	193	ASN	O-C-N	-5.61	114.25	122.43
1	4e	155	GLN	N-CA-CB	-5.61	101.11	109.69
1	4u	55	MET	CA-C-N	5.61	127.73	120.44
1	4u	55	MET	C-N-CA	5.61	127.73	120.44
1	4I	173	ARG	NE-CZ-NH2	5.61	124.25	119.20
1	4O	73	ILE	CA-CB-CG2	5.61	120.03	110.50
1	4R	3	VAL	N-CA-CB	-5.61	104.35	111.64
1	4Y	45	GLU	O-C-N	-5.61	115.53	122.82
1	56	156	GLY	CA-C-N	5.61	126.85	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	56	156	GLY	C-N-CA	5.61	126.85	119.84
1	5b	28	GLU	N-CA-C	5.61	118.16	111.71
1	5f	12	HIS	CA-CB-CG	5.61	119.41	113.80
1	5o	145	TYR	O-C-N	5.61	127.96	122.19
1	5w	13	GLN	OE1-CD-NE2	5.61	128.21	122.60
1	5x	117	TRP	N-CA-C	5.61	118.32	111.82
1	5C	7	GLN	CB-CG-CD	-5.61	103.07	112.60
1	5C	69	LEU	O-C-N	-5.61	116.18	122.12
1	5F	152	ASP	CA-C-N	-5.61	115.37	122.43
1	5F	152	ASP	C-N-CA	-5.61	115.37	122.43
1	5H	183	ASN	OD1-CG-ND2	-5.61	117.00	122.60
1	5R	68	MET	CA-C-O	5.61	126.49	120.55
1	68	72	THR	N-CA-CB	5.61	118.97	110.28
1	68	186	THR	CA-C-O	5.61	126.36	120.42
1	6q	66	MET	CA-C-N	5.61	127.73	120.44
1	6q	66	MET	C-N-CA	5.61	127.73	120.44
1	6z	82	ARG	CA-C-N	5.61	128.35	120.28
1	6z	82	ARG	C-N-CA	5.61	128.35	120.28
1	6A	108	THR	N-CA-CB	5.61	118.05	110.59
1	6D	226	HIS	O-C-N	-5.61	116.09	123.21
1	6P	98	GLU	CA-C-O	-5.61	114.59	120.70
1	7a	91	ILE	N-CA-CB	5.61	117.04	110.82
1	7c	191	VAL	CA-C-O	5.61	126.78	120.95
1	7u	80	TRP	O-C-N	-5.61	116.18	122.12
1	7C	210	THR	CA-C-N	5.61	128.35	120.28
1	7C	210	THR	C-N-CA	5.61	128.35	120.28
1	7D	83	LEU	N-CA-C	5.61	117.39	111.28
1	7O	58	THR	CA-CB-CG2	5.61	120.03	110.50
1	7P	125	PRO	N-CA-CB	5.61	106.49	102.79
1	7Z	12	HIS	N-CA-C	5.61	118.45	110.10
1	7Z	89	GLY	O-C-N	-5.61	116.17	121.77
1	82	42	ALA	N-CA-C	5.61	118.32	111.82
1	86	219	GLN	CA-C-N	5.61	128.75	122.69
1	86	219	GLN	C-N-CA	5.61	128.75	122.69
1	8a	186	THR	CA-C-N	5.61	127.79	120.28
1	8a	186	THR	C-N-CA	5.61	127.79	120.28
1	8d	214	MET	N-CA-C	5.61	117.39	111.28
1	8d	226	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	8e	76	GLU	N-CA-C	5.61	117.07	111.07
1	8i	190	LEU	N-CA-CB	-5.61	101.86	110.16
1	8k	148	THR	N-CA-CB	5.61	119.33	110.87
1	8N	148	THR	N-CA-CB	5.61	119.96	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	97	97	ARG	N-CA-C	5.61	117.97	110.35
1	9l	58	THR	OG1-CB-CG2	-5.61	98.09	109.30
1	9s	145	TYR	CB-CA-C	-5.61	103.58	111.65
1	9v	224	PRO	CA-C-O	-5.61	115.38	121.27
1	9z	125	PRO	CA-C-N	5.61	128.14	120.46
1	9z	125	PRO	C-N-CA	5.61	128.14	120.46
1	9B	167	ARG	NE-CZ-NH2	-5.61	114.15	119.20
1	9G	183	ASN	CB-CA-C	5.61	119.68	110.88
1	9L	47	ALA	CA-C-N	5.61	130.00	121.03
1	9L	47	ALA	C-N-CA	5.61	130.00	121.03
1	ag	71	GLU	CA-C-N	5.61	127.73	120.44
1	ag	71	GLU	C-N-CA	5.61	127.73	120.44
1	am	226	HIS	CE1-NE2-CD2	-5.61	103.39	109.00
1	ap	170	LYS	CA-C-O	5.61	126.49	120.55
1	as	112	GLN	OE1-CD-NE2	5.61	128.21	122.60
1	at	8	GLY	O-C-N	-5.61	118.64	122.62
1	aD	172	LEU	O-C-N	-5.61	116.30	122.07
1	aG	120	HIS	ND1-CE1-NE2	5.61	114.01	108.40
1	aH	24	VAL	N-CA-CB	5.61	116.51	110.62
1	aI	222	GLY	CA-C-N	5.61	130.67	121.87
1	aI	222	GLY	C-N-CA	5.61	130.67	121.87
1	aJ	184	TRP	O-C-N	-5.61	116.18	122.12
1	b0	191	VAL	O-C-N	5.61	127.40	121.91
1	19	104	ILE	O-C-N	5.61	127.60	121.83
1	bD	14	ALA	CA-C-O	-5.61	115.61	121.55
1	bX	108	THR	CA-CB-OG1	5.61	118.01	109.60
1	bZ	129	ILE	CB-CA-C	5.61	119.06	111.88
1	c4	195	ASN	N-CA-C	5.61	116.76	109.64
1	cb	177	ALA	CA-C-O	5.61	128.53	120.51
1	cg	162	ARG	O-C-N	5.61	128.06	122.12
1	cl	42	ALA	CA-C-N	5.61	128.83	120.31
1	cl	42	ALA	C-N-CA	5.61	128.83	120.31
1	cF	167	ARG	CA-C-O	-5.61	114.93	120.82
1	cR	80	TRP	CB-CG-CD1	-5.61	118.49	126.90
1	d1	222	GLY	CA-C-N	5.61	128.53	121.36
1	d1	222	GLY	C-N-CA	5.61	128.53	121.36
1	do	54	THR	CA-C-N	5.61	127.73	120.44
1	do	54	THR	C-N-CA	5.61	127.73	120.44
1	dx	73	ILE	CA-C-N	5.61	127.79	120.28
1	dx	73	ILE	C-N-CA	5.61	127.79	120.28
1	dA	62	HIS	ND1-CE1-NE2	5.61	114.00	108.40
1	dD	87	HIS	CE1-NE2-CD2	-5.61	103.39	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1m	33	SER	N-CA-C	5.61	117.63	109.84
1	dK	136	LEU	N-CA-C	5.61	118.11	111.33
1	ef	221	VAL	CA-C-N	5.61	126.86	120.53
1	ef	221	VAL	C-N-CA	5.61	126.86	120.53
1	1q	78	ALA	CA-C-N	5.61	127.79	120.28
1	1q	78	ALA	C-N-CA	5.61	127.79	120.28
1	1r	22	ALA	CA-C-N	5.61	128.25	120.29
1	1r	22	ALA	C-N-CA	5.61	128.25	120.29
1	ey	83	LEU	N-CA-C	5.61	117.19	111.14
1	eF	108	THR	N-CA-C	-5.61	105.12	112.41
1	eR	37	ILE	N-CA-C	5.61	120.74	112.61
1	eY	125	PRO	CA-C-N	5.61	128.14	120.46
1	eY	125	PRO	C-N-CA	5.61	128.14	120.46
1	f7	127	GLY	CA-C-N	5.61	127.73	120.44
1	f7	127	GLY	C-N-CA	5.61	127.73	120.44
1	1v	164	TYR	CA-C-N	5.61	128.43	120.53
1	1v	164	TYR	C-N-CA	5.61	128.43	120.53
1	fc	111	LEU	N-CA-CB	5.61	119.25	109.72
1	fo	165	VAL	CA-C-O	-5.61	115.12	120.95
1	fu	194	ALA	N-CA-C	5.61	118.36	110.23
1	fJ	124	ILE	CA-C-O	-5.61	117.07	120.88
1	0	220	GLY	CA-C-N	5.61	128.93	120.75
1	0	220	GLY	C-N-CA	5.61	128.93	120.75
1	c	216	THR	CA-CB-OG1	5.61	118.01	109.60
1	i	115	ILE	N-CA-C	5.61	117.01	110.62
1	1	175	GLU	CA-CB-CG	5.61	125.31	114.10
1	m	126	VAL	N-CA-C	5.61	118.10	111.09
1	u	193	ASN	OD1-CG-ND2	-5.61	117.00	122.60
1	v	4	GLN	N-CA-C	5.61	118.45	110.10
1	3	93	PRO	CA-N-CD	-5.61	104.15	112.00
1	H	144	MET	N-CA-C	5.61	117.39	111.28
1	M	100	ARG	CA-C-N	5.61	126.20	119.98
1	M	100	ARG	C-N-CA	5.61	126.20	119.98
1	gK	37	ILE	N-CA-CB	5.60	114.03	110.50
1	hC	54	THR	N-CA-CB	5.60	118.36	110.12
1	hJ	150	ILE	CA-CB-CG1	5.60	119.93	110.40
1	i0	132	ARG	CB-CA-C	-5.60	101.49	110.79
1	ik	33	SER	O-C-N	-5.60	117.93	121.85
1	io	92	GLU	O-C-N	-5.60	116.13	121.57
1	iI	37	ILE	N-CA-CB	-5.60	106.77	110.52
1	iO	164	TYR	CB-CG-CD2	-5.60	112.39	120.80
1	k8	179	GLN	O-C-N	-5.60	116.18	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	122	PRO	N-CA-CB	5.60	108.76	102.60
1	kw	59	VAL	N-CA-C	5.60	116.38	110.72
1	kH	58	THR	CB-CA-C	-5.60	101.49	110.79
1	kW	93	PRO	O-C-N	-5.60	116.01	122.85
1	kZ	49	PRO	N-CA-C	5.60	121.22	113.65
1	l2	41	SER	CA-C-N	5.60	127.79	120.28
1	l2	41	SER	C-N-CA	5.60	127.79	120.28
1	l2	67	GLN	CA-C-N	5.60	127.79	120.28
1	l2	67	GLN	C-N-CA	5.60	127.79	120.28
1	l6	165	VAL	CA-C-N	5.60	127.72	120.44
1	l6	165	VAL	C-N-CA	5.60	127.72	120.44
1	l7	108	THR	O-C-N	-5.60	114.68	122.19
1	lz	51	ASP	CA-C-N	5.60	127.79	120.28
1	lz	51	ASP	C-N-CA	5.60	127.79	120.28
1	lF	23	TRP	CB-CG-CD2	-5.60	118.95	126.80
1	lO	167	ARG	CA-C-N	5.60	128.05	120.65
1	lO	167	ARG	C-N-CA	5.60	128.05	120.65
1	2j	123	PRO	N-CA-CB	-5.60	98.61	103.32
1	2U	81	ASP	CA-CB-CG	5.60	118.20	112.60
1	3Q	143	ARG	CA-C-O	-5.60	114.48	120.42
1	4V	160	PRO	N-CA-C	5.60	120.91	113.57
1	5g	162	ARG	N-CA-C	5.60	122.74	110.80
1	6Z	226	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	72	9	GLN	N-CA-CB	5.60	119.96	110.49
1	77	7	GLN	CA-C-O	-5.60	114.93	120.70
1	7e	184	TRP	CB-CG-CD1	5.60	135.31	126.90
1	7f	70	LYS	O-C-N	-5.60	116.30	122.07
1	7q	170	LYS	CA-C-N	5.60	127.72	120.44
1	7q	170	LYS	C-N-CA	5.60	127.72	120.44
1	7r	68	MET	N-CA-C	5.60	117.83	111.11
1	7G	42	ALA	CA-C-N	5.60	127.79	120.28
1	7G	42	ALA	C-N-CA	5.60	127.79	120.28
1	85	168	PHE	N-CA-CB	-5.60	101.87	110.16
1	8o	123	PRO	N-CA-C	5.60	119.88	111.14
1	8o	175	GLU	CA-C-N	-5.60	113.35	122.26
1	8o	175	GLU	C-N-CA	-5.60	113.35	122.26
1	8C	230	VAL	N-CA-CB	5.60	117.23	110.95
1	8D	55	MET	N-CA-CB	5.60	118.45	110.16
1	8T	219	GLN	N-CA-CB	-5.60	101.02	110.49
1	94	33	SER	CA-C-N	5.60	126.84	119.84
1	94	33	SER	C-N-CA	5.60	126.84	119.84
1	97	40	PHE	CA-CB-CG	5.60	119.40	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Y	72	THR	N-CA-C	5.60	118.16	111.71
1	b5	9	GLN	CB-CA-C	5.60	119.47	109.38
1	16	162	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	be	87	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	bY	101	GLY	CA-C-O	5.60	126.09	120.09
1	c0	95	GLN	N-CA-C	5.60	117.77	110.43
1	cf	179	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	cm	117	TRP	N-CA-C	5.60	118.32	111.82
1	cx	18	ARG	CA-C-O	-5.60	112.71	119.27
1	cy	70	LYS	CA-C-N	5.60	127.79	120.28
1	cy	70	LYS	C-N-CA	5.60	127.79	120.28
1	cz	47	ALA	N-CA-C	5.60	118.48	110.24
1	cI	76	GLU	CA-C-N	5.60	128.25	120.29
1	cI	76	GLU	C-N-CA	5.60	128.25	120.29
1	cK	82	ARG	CA-C-N	5.60	128.83	120.31
1	cK	82	ARG	C-N-CA	5.60	128.83	120.31
1	d6	229	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	dn	202	LEU	O-C-N	-5.60	115.38	122.27
1	dC	197	ASP	N-CA-CB	-5.60	101.67	110.30
1	dC	228	ALA	N-CA-C	5.60	117.61	108.76
1	dF	229	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	eq	176	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	eI	84	HIS	CA-CB-CG	-5.60	108.20	113.80
1	eI	227	LYS	O-C-N	-5.60	115.33	122.34
1	f2	102	SER	CA-C-N	5.60	128.25	120.29
1	f2	102	SER	C-N-CA	5.60	128.25	120.29
1	fe	87	HIS	CA-CB-CG	5.60	119.40	113.80
1	fi	21	ASN	O-C-N	-5.60	115.76	122.15
1	fF	186	THR	CA-CB-CG2	5.60	120.03	110.50
1	g5	219	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	1	173	ARG	N-CA-C	5.60	117.07	111.07
1	v	120	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	B	191	VAL	CA-C-N	5.60	128.83	120.31
1	B	191	VAL	C-N-CA	5.60	128.83	120.31
1	Q	118	MET	CG-SD-CE	-5.60	88.57	100.90
1	Q	122	PRO	CA-C-N	5.60	126.84	119.84
1	Q	122	PRO	C-N-CA	5.60	126.84	119.84
1	W	130	TYR	CB-CG-CD2	5.60	129.21	120.80
1	6	164	TYR	CA-C-N	5.60	128.38	120.42
1	6	164	TYR	C-N-CA	5.60	128.38	120.42
1	gb	41	SER	N-CA-C	5.60	117.06	111.07
1	gm	85	PRO	N-CD-CG	5.60	111.60	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gF	91	ILE	CA-CB-CG2	5.60	120.02	110.50
1	gJ	197	ASP	O-C-N	-5.60	116.30	122.07
1	gN	190	LEU	CA-C-N	5.60	128.38	120.42
1	gN	190	LEU	C-N-CA	5.60	128.38	120.42
1	gQ	178	SER	CB-CA-C	-5.60	99.59	109.62
1	h0	73	ILE	N-CA-C	5.60	116.24	110.36
1	h7	189	LEU	CB-CA-C	5.60	120.04	110.74
1	ha	95	GLN	CA-C-O	5.60	126.65	120.71
1	hb	35	GLU	N-CA-C	-5.60	105.79	113.30
1	hd	62	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	hj	115	ILE	N-CA-C	-5.60	105.06	110.72
1	hl	77	ALA	CA-C-N	5.60	127.72	120.44
1	hl	77	ALA	C-N-CA	5.60	127.72	120.44
1	ho	21	ASN	OD1-CG-ND2	5.60	128.20	122.60
1	hv	73	ILE	CA-C-N	5.60	128.06	120.44
1	hv	73	ILE	C-N-CA	5.60	128.06	120.44
1	hy	33	SER	CB-CA-C	-5.60	100.27	109.46
1	hy	33	SER	N-CA-CB	5.60	118.49	110.03
1	1K	214	MET	O-C-N	-5.60	116.18	122.12
1	hD	164	TYR	CA-C-N	5.60	128.14	120.46
1	hD	164	TYR	C-N-CA	5.60	128.14	120.46
1	hK	212	GLU	CB-CG-CD	5.60	122.12	112.60
1	hO	43	LEU	N-CA-C	5.60	117.07	111.07
1	i7	93	PRO	CA-C-N	5.60	128.80	121.85
1	i7	93	PRO	C-N-CA	5.60	128.80	121.85
1	ij	78	ALA	N-CA-C	5.60	117.39	111.28
1	il	80	TRP	CA-C-N	5.60	127.72	120.44
1	il	80	TRP	C-N-CA	5.60	127.72	120.44
1	im	202	LEU	N-CA-C	5.60	117.39	111.28
1	iA	100	ARG	CA-C-N	5.60	126.20	119.98
1	iA	100	ARG	C-N-CA	5.60	126.20	119.98
1	iD	153	ILE	O-C-N	-5.60	116.69	122.63
1	j1	142	VAL	N-CA-C	-5.60	104.91	110.62
1	j4	89	GLY	O-C-N	-5.60	116.17	121.77
1	jc	98	GLU	O-C-N	-5.60	116.31	121.30
1	je	133	TRP	N-CA-C	5.60	117.47	111.36
1	jf	208	ALA	N-CA-CB	-5.60	103.39	111.91
1	jr	135	ILE	CA-C-N	5.60	127.72	120.44
1	jr	135	ILE	C-N-CA	5.60	127.72	120.44
1	js	140	LYS	N-CA-C	5.60	117.39	111.28
1	jw	170	LYS	CA-C-N	5.60	127.79	120.28
1	jw	170	LYS	C-N-CA	5.60	127.79	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jC	229	ARG	CG-CD-NE	-5.60	99.68	112.00
1	kg	110	THR	CA-C-N	5.60	128.35	120.28
1	kg	110	THR	C-N-CA	5.60	128.35	120.28
1	ki	81	ASP	N-CA-CB	-5.60	101.60	110.28
1	kq	175	GLU	CA-C-O	5.60	127.31	120.92
1	22	163	ASP	CA-CB-CG	-5.60	107.00	112.60
1	kx	27	VAL	CA-CB-CG2	-5.60	100.88	110.40
1	kK	78	ALA	N-CA-CB	-5.60	101.89	110.12
1	kR	27	VAL	N-CA-C	5.60	116.38	110.72
1	kS	215	MET	N-CA-C	5.60	117.39	111.28
1	kT	183	ASN	CB-CA-C	-5.60	101.15	110.68
1	l6	182	LYS	CA-C-N	5.60	127.72	120.44
1	l6	182	LYS	C-N-CA	5.60	127.72	120.44
1	l8	120	HIS	CA-CB-CG	-5.60	108.20	113.80
1	27	163	ASP	CA-C-N	5.60	128.58	120.79
1	27	163	ASP	C-N-CA	5.60	128.58	120.79
1	lt	39	MET	N-CA-C	5.60	117.39	111.28
1	lx	26	VAL	CA-C-N	5.60	128.14	120.46
1	lx	26	VAL	C-N-CA	5.60	128.14	120.46
1	lD	186	THR	N-CA-CB	5.60	118.09	109.91
1	lM	5	ASN	O-C-N	-5.60	115.38	122.27
1	lR	135	ILE	N-CA-C	5.60	116.33	110.62
1	2n	16	SER	CA-C-O	-5.60	115.17	119.32
1	2s	198	CYS	N-CA-C	-5.60	105.56	112.90
1	2w	190	LEU	CB-CA-C	5.60	120.09	110.79
1	2I	113	GLU	O-C-N	5.60	127.84	122.07
1	2L	12	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	2M	3	VAL	CA-C-O	5.60	127.11	120.72
1	2N	161	PHE	CA-CB-CG	-5.60	108.20	113.80
1	2O	196	PRO	N-CA-C	5.60	124.01	112.47
1	2Q	57	ASN	O-C-N	-5.60	114.92	122.43
1	3d	27	VAL	N-CA-CB	5.60	118.16	110.54
1	3d	143	ARG	N-CA-C	5.60	117.39	111.28
1	3v	97	ARG	N-CA-C	5.60	118.36	110.23
1	3C	144	MET	CA-C-O	5.60	126.49	120.55
1	3Y	87	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	3Z	125	PRO	N-CA-CB	5.60	106.73	102.36
1	3Z	173	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	44	11	VAL	CA-C-O	5.60	126.23	120.96
1	4i	62	HIS	CA-C-N	5.60	127.79	120.28
1	4i	62	HIS	C-N-CA	5.60	127.79	120.28
1	4C	132	ARG	NE-CZ-NH2	5.60	124.24	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4D	5	ASN	N-CA-C	-5.60	102.17	110.46
1	4F	193	ASN	CA-CB-CG	-5.60	107.00	112.60
1	4I	195	ASN	N-CA-C	5.60	117.81	110.08
1	4R	87	HIS	N-CA-C	5.60	117.30	110.41
1	4T	120	HIS	O-C-N	-5.60	116.25	122.86
1	4Y	33	SER	CA-C-N	5.60	125.97	119.47
1	4Y	33	SER	C-N-CA	5.60	125.97	119.47
1	5h	76	GLU	CB-CG-CD	5.60	122.12	112.60
1	5l	7	GLN	O-C-N	-5.60	114.73	122.46
1	5n	171	THR	N-CA-C	5.60	117.47	111.36
1	5p	98	GLU	N-CA-C	5.60	117.73	109.50
1	5t	184	TRP	N-CA-C	5.60	117.39	111.28
1	5E	163	ASP	CA-CB-CG	-5.60	107.00	112.60
1	5Q	21	ASN	N-CA-C	5.60	118.11	111.33
1	60	221	VAL	CA-C-N	5.60	128.34	121.06
1	60	221	VAL	C-N-CA	5.60	128.34	121.06
1	6a	121	ASN	CB-CA-C	5.60	116.43	108.76
1	6i	77	ALA	CA-C-N	5.60	128.10	120.54
1	6i	77	ALA	C-N-CA	5.60	128.10	120.54
1	6A	161	PHE	CA-C-O	-5.60	114.94	120.82
1	6E	181	VAL	CB-CA-C	-5.60	103.03	112.16
1	71	26	VAL	CG1-CB-CG2	-5.60	98.47	110.80
1	7c	76	GLU	N-CA-C	5.60	117.06	111.07
1	7e	207	PRO	N-CA-C	5.60	121.12	113.84
1	7j	44	SER	O-C-N	-5.60	115.58	122.25
1	7j	208	ALA	CA-C-O	5.60	126.11	119.56
1	7l	18	ARG	CB-CA-C	5.60	119.77	110.81
1	7x	171	THR	CA-CB-CG2	5.60	120.02	110.50
1	7z	114	GLN	CB-CG-CD	-5.60	103.07	112.60
1	7K	120	HIS	O-C-N	-5.60	115.14	122.59
1	84	50	GLN	CB-CG-CD	5.60	122.12	112.60
1	88	91	ILE	N-CA-C	-5.60	100.35	108.87
1	88	184	TRP	CE2-CD2-CE3	5.60	124.40	118.80
1	8a	169	TYR	N-CA-C	5.60	117.39	111.28
1	8n	74	ASN	CA-C-N	5.60	128.25	120.29
1	8n	74	ASN	C-N-CA	5.60	128.25	120.29
1	8s	5	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	8w	126	VAL	N-CA-C	5.60	119.96	111.89
1	8z	127	GLY	N-CA-C	-5.60	105.86	112.64
1	8F	31	ALA	CA-C-N	5.60	130.78	122.82
1	8F	31	ALA	C-N-CA	5.60	130.78	122.82
1	8I	147	PRO	CB-CA-C	5.60	116.28	110.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	145	TYR	N-CA-C	5.60	117.82	109.25
1	95	110	THR	O-C-N	-5.60	116.13	122.68
1	9b	193	ASN	O-C-N	-5.60	115.58	122.25
1	9d	201	ILE	CA-CB-CG1	5.60	119.92	110.40
1	9j	130	TYR	CG-CD1-CE1	-5.60	112.80	121.20
1	9j	198	CYS	O-C-N	-5.60	116.18	122.12
1	9k	216	THR	N-CA-C	5.60	117.39	111.28
1	9l	57	ASN	CA-CB-CG	-5.60	107.00	112.60
1	9w	10	MET	CG-SD-CE	-5.60	88.57	100.90
1	9B	22	ALA	CA-C-N	5.60	127.79	120.28
1	9B	22	ALA	C-N-CA	5.60	127.79	120.28
1	9D	213	GLU	N-CA-C	5.60	117.47	111.36
1	9J	100	ARG	CA-C-N	5.60	127.14	120.14
1	9J	100	ARG	C-N-CA	5.60	127.14	120.14
1	al	35	GLU	N-CA-CB	-5.60	101.00	110.41
1	ao	198	CYS	CA-C-N	5.60	127.79	120.28
1	ao	198	CYS	C-N-CA	5.60	127.79	120.28
1	as	2	ILE	CA-C-O	5.60	128.21	121.93
1	aw	18	ARG	CG-CD-NE	-5.60	99.67	112.00
1	13	205	LEU	CA-C-N	5.60	130.67	121.87
1	13	205	LEU	C-N-CA	5.60	130.67	121.87
1	aE	9	GLN	N-CA-C	5.60	117.87	108.96
1	aJ	87	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	b5	12	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	bd	53	ASN	CA-CB-CG	-5.60	107.00	112.60
1	bj	54	THR	CA-C-N	5.60	127.72	120.44
1	bj	54	THR	C-N-CA	5.60	127.72	120.44
1	bs	14	ALA	N-CA-C	5.60	118.36	110.23
1	bw	86	VAL	N-CA-C	5.60	117.70	109.63
1	bA	14	ALA	N-CA-C	5.60	118.40	110.50
1	19	52	LEU	CA-C-O	-5.60	113.18	119.79
1	bC	73	ILE	CA-C-N	5.60	127.72	120.44
1	bC	73	ILE	C-N-CA	5.60	127.72	120.44
1	bE	26	VAL	N-CA-C	5.60	115.80	110.42
1	bK	62	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	c5	97	ARG	CA-C-N	5.60	128.18	120.39
1	c5	97	ARG	C-N-CA	5.60	128.18	120.39
1	c8	215	MET	N-CA-C	5.60	118.11	111.33
1	ci	88	ALA	N-CA-C	5.60	120.18	113.23
1	cm	188	THR	CA-CB-OG1	5.60	118.00	109.60
1	cp	88	ALA	CA-C-N	5.60	130.66	121.87
1	cp	88	ALA	C-N-CA	5.60	130.66	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cp	184	TRP	N-CA-C	5.60	117.39	111.28
1	cq	65	ALA	N-CA-C	5.60	117.19	111.14
1	cq	164	TYR	CA-C-N	5.60	128.43	120.53
1	cq	164	TYR	C-N-CA	5.60	128.43	120.53
1	cu	48	THR	CA-C-N	5.60	126.84	119.84
1	cu	48	THR	C-N-CA	5.60	126.84	119.84
1	cB	161	PHE	N-CA-CB	-5.60	102.50	110.46
1	cB	220	GLY	CA-C-O	5.60	126.56	119.72
1	cE	100	ARG	O-C-N	-5.60	115.81	122.65
1	cL	14	ALA	CA-C-O	-5.60	115.37	121.87
1	cM	220	GLY	CA-C-N	5.60	128.01	120.50
1	cM	220	GLY	C-N-CA	5.60	128.01	120.50
1	d0	48	THR	N-CA-CB	5.60	116.24	109.74
1	d0	62	HIS	CA-C-O	5.60	127.95	121.28
1	d7	165	VAL	O-C-N	-5.60	116.06	121.83
1	1j	112	GLN	N-CA-C	5.60	117.39	111.28
1	dA	51	ASP	CA-CB-CG	-5.60	107.00	112.60
1	dJ	72	THR	CA-C-N	5.60	129.48	121.02
1	dJ	72	THR	C-N-CA	5.60	129.48	121.02
1	dQ	217	ALA	O-C-N	-5.60	116.04	122.93
1	e0	56	LEU	N-CA-C	5.60	117.39	111.28
1	e0	162	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	e5	12	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	e7	55	MET	CG-SD-CE	-5.60	88.57	100.90
1	em	18	ARG	CA-C-N	5.60	128.82	120.31
1	em	18	ARG	C-N-CA	5.60	128.82	120.31
1	en	114	GLN	N-CA-C	5.60	117.39	111.28
1	ez	33	SER	CA-C-N	5.60	125.31	119.82
1	ez	33	SER	C-N-CA	5.60	125.31	119.82
1	1t	27	VAL	O-C-N	-5.60	116.42	121.91
1	eR	193	ASN	CA-C-O	5.60	125.99	119.32
1	eV	164	TYR	CA-C-N	5.60	127.62	120.56
1	eV	164	TYR	C-N-CA	5.60	127.62	120.56
1	f8	53	ASN	CA-CB-CG	-5.60	107.00	112.60
1	fj	53	ASN	CA-C-N	5.60	128.10	120.54
1	fj	53	ASN	C-N-CA	5.60	128.10	120.54
1	1w	92	GLU	N-CA-C	5.60	116.95	109.83
1	fk	24	VAL	N-CA-CB	5.60	123.64	111.76
1	fs	159	GLU	O-C-N	-5.60	116.44	121.31
1	fz	49	PRO	CA-C-N	5.60	127.72	120.44
1	fz	49	PRO	C-N-CA	5.60	127.72	120.44
1	fD	29	GLU	N-CA-CB	-5.60	101.02	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fE	92	GLU	CA-C-O	-5.60	113.94	119.49
1	fJ	82	ARG	O-C-N	-5.60	115.39	122.17
1	1z	124	ILE	O-C-N	-5.60	117.09	121.46
1	1A	156	GLY	O-C-N	-5.60	116.17	121.77
1	g1	55	MET	CG-SD-CE	-5.60	88.57	100.90
1	g1	66	MET	N-CA-CB	5.60	118.36	110.12
1	g2	170	LYS	O-C-N	-5.60	116.04	122.09
1	g4	172	LEU	CA-C-N	5.60	130.21	120.68
1	g4	172	LEU	C-N-CA	5.60	130.21	120.68
1	1C	177	ALA	CA-C-N	5.60	132.24	121.54
1	1C	177	ALA	C-N-CA	5.60	132.24	121.54
1	gq	37	ILE	N-CA-CB	5.60	119.05	111.21
1	gD	44	SER	CA-C-N	5.60	128.04	120.65
1	gD	44	SER	C-N-CA	5.60	128.04	120.65
1	h9	212	GLU	CA-C-O	5.60	126.89	120.90
1	hg	73	ILE	CA-C-N	5.60	128.10	120.54
1	hg	73	ILE	C-N-CA	5.60	128.10	120.54
1	i1	160	PRO	CA-C-O	-5.60	115.16	121.43
1	io	21	ASN	CB-CA-C	5.60	120.09	110.79
1	ir	225	GLY	CA-C-O	5.60	126.45	120.40
1	iN	17	PRO	CA-C-N	5.60	127.79	120.28
1	iN	17	PRO	C-N-CA	5.60	127.79	120.28
1	j0	12	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	ja	93	PRO	N-CA-C	5.60	124.01	112.47
1	jh	33	SER	CA-C-N	5.60	125.97	119.47
1	jh	33	SER	C-N-CA	5.60	125.97	119.47
1	jo	97	ARG	CA-C-N	5.60	128.18	120.67
1	jo	97	ARG	C-N-CA	5.60	128.18	120.67
1	jO	196	PRO	N-CA-C	5.60	124.01	112.47
1	jR	217	ALA	N-CA-C	5.60	117.56	110.33
1	jS	100	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	kd	154	ARG	NE-CZ-NH1	-5.60	115.90	121.50
1	kF	87	HIS	CA-C-O	5.60	127.67	121.56
1	lz	44	SER	N-CA-C	5.60	118.91	112.97
1	lR	120	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	2J	75	GLU	CA-C-N	5.60	128.24	120.29
1	2J	75	GLU	C-N-CA	5.60	128.24	120.29
1	2M	15	ILE	O-C-N	-5.60	117.36	122.79
1	2Q	33	SER	CA-C-O	5.60	125.58	120.26
1	2T	42	ALA	N-CA-C	5.60	117.39	111.28
1	3k	9	GLN	OE1-CD-NE2	5.60	128.20	122.60
1	3w	62	HIS	CB-CG-CD2	-5.60	123.92	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3x	186	THR	N-CA-C	-5.60	106.40	113.18
1	3F	104	ILE	O-C-N	-5.60	116.44	121.87
1	3M	54	THR	O-C-N	-5.60	116.18	122.12
1	4b	34	PRO	N-CA-C	5.60	121.21	113.65
1	4l	67	GLN	CB-CG-CD	5.60	122.12	112.60
1	4z	110	THR	CA-C-N	5.60	127.79	120.28
1	4z	110	THR	C-N-CA	5.60	127.79	120.28
1	4N	31	ALA	O-C-N	-5.60	115.14	122.59
1	4N	66	MET	CA-C-N	5.60	128.24	120.29
1	4N	66	MET	C-N-CA	5.60	128.24	120.29
1	4S	151	LEU	CA-C-N	5.60	127.78	120.28
1	4S	151	LEU	C-N-CA	5.60	127.78	120.28
1	53	180	GLU	CA-C-N	5.60	128.37	120.42
1	53	180	GLU	C-N-CA	5.60	128.37	120.42
1	5w	229	ARG	CA-C-N	5.60	130.48	123.14
1	5w	229	ARG	C-N-CA	5.60	130.48	123.14
1	5K	40	PHE	N-CA-C	5.60	118.11	111.33
1	6a	176	GLN	CA-C-O	-5.60	114.48	120.42
1	6v	114	GLN	CA-C-N	5.60	127.62	120.56
1	6v	114	GLN	C-N-CA	5.60	127.62	120.56
1	6z	213	GLU	N-CA-CB	-5.60	102.38	110.56
1	7t	133	TRP	CB-CG-CD1	5.60	135.30	126.90
1	7G	80	TRP	CB-CG-CD1	-5.60	118.50	126.90
1	7G	189	LEU	CA-C-N	5.60	127.78	120.28
1	7G	189	LEU	C-N-CA	5.60	127.78	120.28
1	83	100	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	8I	12	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	8K	102	SER	N-CA-CB	5.60	118.93	110.30
1	8U	184	TRP	CA-C-O	-5.60	114.61	120.55
1	9H	109	SER	CA-C-N	5.60	131.16	120.97
1	9H	109	SER	C-N-CA	5.60	131.16	120.97
1	9V	183	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	a0	5	ASN	CA-CB-CG	5.60	118.20	112.60
1	ae	51	ASP	N-CA-CB	5.60	118.13	110.01
1	ah	46	GLY	O-C-N	-5.60	116.92	122.41
1	as	52	LEU	O-C-N	-5.60	116.18	122.12
1	at	84	HIS	CA-C-N	5.60	126.48	119.98
1	at	84	HIS	C-N-CA	5.60	126.48	119.98
1	12	140	LYS	N-CA-C	5.60	118.32	111.82
1	aB	213	GLU	CA-C-N	5.60	128.34	120.28
1	aB	213	GLU	C-N-CA	5.60	128.34	120.28
1	aH	53	ASN	CA-C-O	-5.60	114.61	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aJ	5	ASN	CA-CB-CG	5.60	118.20	112.60
1	15	158	LYS	CA-C-O	5.60	126.36	120.42
1	bo	101	GLY	CA-C-N	5.60	128.24	120.29
1	bo	101	GLY	C-N-CA	5.60	128.24	120.29
1	bx	68	MET	CA-C-O	-5.60	114.61	120.55
1	bA	85	PRO	CA-C-N	5.60	132.05	121.97
1	bA	85	PRO	C-N-CA	5.60	132.05	121.97
1	1b	226	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	bX	86	VAL	CB-CA-C	-5.60	103.97	110.91
1	cd	155	GLN	O-C-N	-5.60	115.98	122.87
1	ce	195	ASN	CA-C-N	5.60	126.84	119.84
1	ce	195	ASN	C-N-CA	5.60	126.84	119.84
1	cp	223	GLY	CA-C-N	5.60	126.84	119.84
1	cp	223	GLY	C-N-CA	5.60	126.84	119.84
1	cq	177	ALA	N-CA-C	5.60	118.14	110.24
1	ct	71	GLU	CA-C-N	5.60	127.78	120.28
1	ct	71	GLU	C-N-CA	5.60	127.78	120.28
1	cu	59	VAL	N-CA-C	5.60	115.80	110.42
1	cw	28	GLU	N-CA-C	5.60	117.06	111.07
1	cA	120	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	cH	165	VAL	CA-CB-CG1	5.60	119.92	110.40
1	cH	219	GLN	O-C-N	-5.60	115.21	122.77
1	1g	71	GLU	CA-C-O	-5.60	114.94	120.82
1	cL	7	GLN	N-CA-CB	5.60	118.29	109.83
1	d5	42	ALA	N-CA-CB	-5.60	101.73	109.91
1	d9	211	LEU	CA-C-O	5.60	126.41	119.97
1	dx	92	GLU	N-CA-C	5.60	116.75	109.64
1	1l	52	LEU	O-C-N	-5.60	116.18	122.12
1	dM	38	PRO	N-CA-CB	5.60	109.13	103.25
1	dW	142	VAL	N-CA-C	5.60	116.24	110.36
1	dY	5	ASN	CA-CB-CG	-5.60	107.00	112.60
1	ea	12	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	ei	227	LYS	CG-CD-CE	5.60	124.18	111.30
1	el	48	THR	CA-CB-OG1	5.60	118.00	109.60
1	1q	226	HIS	CA-C-N	5.60	128.58	120.79
1	1q	226	HIS	C-N-CA	5.60	128.58	120.79
1	eD	174	ALA	N-CA-C	5.60	117.47	111.36
1	fh	176	GLN	N-CA-CB	-5.60	101.13	110.37
1	fO	81	ASP	O-C-N	-5.60	114.73	122.46
1	g4	116	GLY	N-CA-C	5.60	119.00	112.50
1	f	89	GLY	N-CA-C	5.60	123.77	112.34
1	i	64	ALA	N-CA-C	-5.60	105.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	p	212	GLU	CA-C-N	5.60	128.24	120.29
1	p	212	GLU	C-N-CA	5.60	128.24	120.29
1	H	182	LYS	N-CA-C	5.60	117.39	111.28
1	L	155	GLN	O-C-N	-5.60	115.92	122.81
1	4	33	SER	O-C-N	-5.60	114.88	121.32
1	Q	34	PRO	CA-N-CD	-5.60	104.16	112.00
1	8	197	ASP	N-CA-CB	5.60	118.45	110.16
1	gl	30	LYS	N-CA-C	-5.60	105.80	113.30
1	gt	78	ALA	CA-C-N	5.60	128.10	120.54
1	gt	78	ALA	C-N-CA	5.60	128.10	120.54
1	gt	129	ILE	CA-C-O	5.60	127.11	121.17
1	gt	198	CYS	CA-C-N	5.60	128.05	120.38
1	gt	198	CYS	C-N-CA	5.60	128.05	120.38
1	gv	56	LEU	O-C-N	-5.60	116.30	122.07
1	gw	48	THR	N-CA-CB	5.60	117.51	109.78
1	gE	65	ALA	CA-C-N	5.60	127.78	120.28
1	gE	65	ALA	C-N-CA	5.60	127.78	120.28
1	h4	53	ASN	N-CA-CB	5.60	118.13	110.01
1	h9	48	THR	CA-CB-OG1	5.60	118.00	109.60
1	hf	195	ASN	O-C-N	-5.60	114.88	121.32
1	hk	179	GLN	N-CA-C	5.60	118.15	111.71
1	hq	91	ILE	N-CA-CB	5.60	116.63	110.53
1	hJ	167	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	i0	33	SER	CA-C-N	5.60	125.30	119.64
1	i0	33	SER	C-N-CA	5.60	125.30	119.64
1	i6	94	GLY	O-C-N	-5.60	115.90	122.45
1	i7	48	THR	CA-CB-OG1	5.60	118.00	109.60
1	i7	134	ILE	N-CA-C	5.60	116.33	110.62
1	ih	68	MET	N-CA-C	-5.60	105.95	112.89
1	ij	91	ILE	CA-C-N	5.60	127.09	120.09
1	ij	91	ILE	C-N-CA	5.60	127.09	120.09
1	1P	92	GLU	CA-C-N	5.60	126.84	119.84
1	1P	92	GLU	C-N-CA	5.60	126.84	119.84
1	iA	141	ILE	CA-C-N	5.60	127.61	120.56
1	iA	141	ILE	C-N-CA	5.60	127.61	120.56
1	iD	91	ILE	N-CA-C	5.60	117.00	110.62
1	iE	226	HIS	CA-CB-CG	-5.60	108.20	113.80
1	j7	79	GLU	CB-CG-CD	5.60	122.12	112.60
1	jz	142	VAL	N-CA-C	5.60	116.05	110.23
1	jQ	30	LYS	CA-C-O	5.60	124.98	118.77
1	k0	72	THR	CA-C-N	5.60	127.61	120.56
1	k0	72	THR	C-N-CA	5.60	127.61	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ki	3	VAL	CA-C-O	5.60	126.96	121.19
1	ki	137	GLY	O-C-N	-5.60	116.81	122.19
1	kj	62	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	kj	84	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	22	169	TYR	CA-CB-CG	-5.60	103.82	113.90
1	kz	27	VAL	O-C-N	-5.60	115.47	121.80
1	23	55	MET	CG-SD-CE	-5.60	88.58	100.90
1	kY	63	GLN	CG-CD-NE2	5.60	124.80	116.40
1	l4	182	LYS	N-CA-C	5.60	117.38	111.28
1	l5	32	PHE	CA-CB-CG	-5.60	108.20	113.80
1	ls	12	HIS	CA-CB-CG	-5.60	108.20	113.80
1	lw	197	ASP	CA-CB-CG	-5.60	107.00	112.60
1	lF	211	LEU	N-CA-C	5.60	119.37	112.54
1	2I	178	SER	N-CA-CB	5.60	118.28	109.83
1	2J	1	PRO	CA-N-CD	-5.60	104.16	112.00
1	2M	216	THR	CA-CB-CG2	5.60	120.02	110.50
1	2O	102	SER	N-CA-C	5.60	118.15	111.71
1	2R	52	LEU	N-CA-C	-5.60	105.26	111.36
1	38	231	LEU	CB-CA-C	5.60	120.74	110.10
1	3n	54	THR	CB-CA-C	-5.60	101.33	110.85
1	3p	12	HIS	CA-C-O	5.60	126.70	120.43
1	3t	66	MET	CA-C-N	5.60	128.24	120.29
1	3t	66	MET	C-N-CA	5.60	128.24	120.29
1	3x	19	THR	CA-C-N	5.60	128.24	120.29
1	3x	19	THR	C-N-CA	5.60	128.24	120.29
1	3y	132	ARG	NE-CZ-NH2	5.60	124.24	119.20
1	3J	163	ASP	CB-CA-C	-5.60	101.16	110.68
1	3K	73	ILE	N-CA-C	5.60	116.24	110.36
1	3O	176	GLN	CG-CD-NE2	5.60	124.80	116.40
1	3Z	66	MET	O-C-N	-5.60	116.18	122.12
1	48	85	PRO	CA-C-N	5.60	130.87	122.58
1	48	85	PRO	C-N-CA	5.60	130.87	122.58
1	4c	210	THR	CA-C-O	5.60	127.30	120.92
1	4q	127	GLY	N-CA-C	-5.60	105.60	112.77
1	4q	144	MET	CG-SD-CE	-5.60	88.58	100.90
1	4z	149	SER	CA-CB-OG	5.60	122.30	111.10
1	4A	139	ASN	N-CA-CB	-5.60	101.89	110.12
1	4A	142	VAL	CA-C-N	5.60	127.78	120.28
1	4A	142	VAL	C-N-CA	5.60	127.78	120.28
1	4L	199	LYS	CB-CA-C	5.60	119.77	110.81
1	4S	128	GLU	N-CA-CB	5.60	118.45	110.16
1	4X	158	LYS	N-CA-C	-5.60	105.76	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	84	HIS	O-C-N	-5.60	116.22	121.32
1	5e	27	VAL	CA-C-O	5.60	126.52	120.47
1	5j	161	PHE	CA-CB-CG	5.60	119.40	113.80
1	5t	208	ALA	CA-C-O	5.60	126.06	119.28
1	5y	138	LEU	O-C-N	-5.60	116.30	122.07
1	5A	26	VAL	N-CA-CB	5.60	117.74	110.57
1	5G	80	TRP	CB-CG-CD2	5.60	134.64	126.80
1	5N	207	PRO	CA-C-N	5.60	128.82	120.31
1	5N	207	PRO	C-N-CA	5.60	128.82	120.31
1	5Y	104	ILE	N-CA-C	5.60	115.80	110.42
1	65	162	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	6z	81	ASP	N-CA-C	5.60	117.38	111.28
1	6A	139	ASN	CA-CB-CG	-5.60	107.00	112.60
1	6D	132	ARG	CA-C-N	5.60	128.05	120.38
1	6D	132	ARG	C-N-CA	5.60	128.05	120.38
1	6G	33	SER	CA-C-N	5.60	126.84	119.84
1	6G	33	SER	C-N-CA	5.60	126.84	119.84
1	6I	11	VAL	O-C-N	-5.60	116.62	123.00
1	6L	55	MET	CG-SD-CE	-5.60	88.58	100.90
1	6M	105	ALA	CA-C-N	5.60	132.38	121.41
1	6M	105	ALA	C-N-CA	5.60	132.38	121.41
1	6O	165	VAL	CA-C-N	5.60	127.78	120.28
1	6O	165	VAL	C-N-CA	5.60	127.78	120.28
1	6Y	162	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	70	78	ALA	N-CA-C	5.60	117.38	111.28
1	71	5	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	7i	42	ALA	N-CA-CB	5.60	118.96	110.28
1	7k	117	TRP	CB-CA-C	5.60	120.08	110.79
1	7o	11	VAL	CA-C-N	5.60	128.80	120.90
1	7o	11	VAL	C-N-CA	5.60	128.80	120.90
1	7t	21	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	7v	52	LEU	N-CA-CB	-5.60	101.89	110.12
1	7y	132	ARG	O-C-N	-5.60	116.30	122.07
1	8o	194	ALA	O-C-N	-5.60	116.06	122.89
1	8q	219	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	8A	139	ASN	O-C-N	5.60	128.06	122.12
1	8D	21	ASN	CB-CG-ND2	5.60	124.80	116.40
1	8F	129	ILE	CA-C-N	5.60	127.78	120.28
1	8F	129	ILE	C-N-CA	5.60	127.78	120.28
1	8N	12	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	8Q	175	GLU	CB-CA-C	5.60	119.02	109.72
1	8Y	202	LEU	N-CA-C	5.60	117.85	111.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	140	LYS	O-C-N	-5.60	114.83	122.33
1	9k	4	GLN	CG-CD-NE2	5.60	124.80	116.40
1	9D	120	HIS	CA-CB-CG	5.60	119.40	113.80
1	9N	42	ALA	N-CA-C	5.60	118.31	111.82
1	9U	170	LYS	O-C-N	-5.60	114.95	122.23
1	a9	119	THR	CA-C-O	5.60	126.72	119.95
1	aa	206	GLY	CA-C-N	5.60	125.60	119.89
1	aa	206	GLY	C-N-CA	5.60	125.60	119.89
1	aw	180	GLU	N-CA-C	5.60	117.38	111.28
1	aD	214	MET	CA-C-N	5.60	128.24	120.29
1	aD	214	MET	C-N-CA	5.60	128.24	120.29
1	aM	16	SER	O-C-N	-5.60	114.53	121.64
1	aQ	152	ASP	CA-CB-CG	5.60	118.20	112.60
1	aY	126	VAL	O-C-N	-5.60	116.44	121.87
1	b3	68	MET	CA-C-N	5.60	127.72	120.44
1	b3	68	MET	C-N-CA	5.60	127.72	120.44
1	bc	87	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	bg	134	ILE	N-CA-C	5.60	116.38	110.72
1	bi	4	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	bi	82	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	by	39	MET	CG-SD-CE	-5.60	88.58	100.90
1	bG	113	GLU	CA-C-N	5.60	128.24	120.29
1	bG	113	GLU	C-N-CA	5.60	128.24	120.29
1	bK	50	GLN	CA-C-O	5.60	126.68	120.63
1	c9	87	HIS	CG-CD2-NE2	5.60	112.80	107.20
1	ca	146	SER	N-CA-C	5.60	120.36	112.75
1	cF	166	ASP	N-CA-CB	-5.60	101.89	110.12
1	cO	148	THR	O-C-N	-5.60	116.39	123.05
1	d7	52	LEU	O-C-N	-5.60	116.30	122.07
1	dd	211	LEU	N-CA-C	-5.60	105.71	112.54
1	di	157	PRO	CA-C-N	5.60	130.72	121.99
1	di	157	PRO	C-N-CA	5.60	130.72	121.99
1	di	222	GLY	CA-C-N	5.60	130.66	121.87
1	di	222	GLY	C-N-CA	5.60	130.66	121.87
1	dj	229	ARG	CG-CD-NE	-5.60	99.68	112.00
1	dk	195	ASN	CA-C-N	5.60	125.97	119.47
1	dk	195	ASN	C-N-CA	5.60	125.97	119.47
1	dl	9	GLN	O-C-N	-5.60	116.79	123.06
1	dq	195	ASN	N-CA-C	5.60	117.54	109.48
1	dv	208	ALA	CA-C-N	5.60	129.73	120.94
1	dv	208	ALA	C-N-CA	5.60	129.73	120.94
1	dB	105	ALA	CA-C-O	5.60	126.11	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	59	VAL	CA-C-O	5.60	127.65	120.76
1	dN	186	THR	N-CA-C	5.60	117.06	111.07
1	dP	2	ILE	CA-C-O	5.60	128.69	121.80
1	dV	161	PHE	CA-C-N	5.60	128.24	120.29
1	dV	161	PHE	C-N-CA	5.60	128.24	120.29
1	e2	110	THR	CA-C-N	5.60	127.78	120.28
1	e2	110	THR	C-N-CA	5.60	127.78	120.28
1	ef	179	GLN	N-CA-C	5.60	117.38	111.28
1	ej	5	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	eq	52	LEU	N-CA-CB	5.60	118.13	110.01
1	eu	142	VAL	N-CA-C	5.60	115.80	110.42
1	ey	187	GLU	N-CA-C	5.60	117.46	111.36
1	eI	143	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	eL	104	ILE	CA-C-O	5.60	126.77	120.95
1	eR	155	GLN	CG-CD-OE1	5.60	132.00	120.80
1	eV	113	GLU	CB-CA-C	5.60	119.67	110.88
1	eZ	109	SER	O-C-N	-5.60	116.66	123.10
1	fn	203	LYS	CA-C-N	5.60	127.78	120.28
1	fn	203	LYS	C-N-CA	5.60	127.78	120.28
1	fw	202	LEU	CA-C-N	5.60	127.72	120.44
1	fw	202	LEU	C-N-CA	5.60	127.72	120.44
1	fD	170	LYS	CA-C-O	5.60	126.70	120.82
1	1y	223	GLY	CA-C-N	5.60	125.36	119.76
1	1y	223	GLY	C-N-CA	5.60	125.36	119.76
1	fF	18	ARG	CA-C-N	5.60	128.10	120.54
1	fF	18	ARG	C-N-CA	5.60	128.10	120.54
1	fH	16	SER	CA-C-O	-5.60	114.78	119.76
1	fJ	121	ASN	O-C-N	-5.60	114.35	121.29
1	fK	83	LEU	CA-C-N	-5.60	115.06	122.56
1	fK	83	LEU	C-N-CA	-5.60	115.06	122.56
1	fM	38	PRO	CA-C-N	5.60	128.24	120.29
1	fM	38	PRO	C-N-CA	5.60	128.24	120.29
1	fP	80	TRP	CA-C-N	5.60	128.06	120.44
1	fP	80	TRP	C-N-CA	5.60	128.06	120.44
1	fU	111	LEU	O-C-N	-5.60	116.30	122.07
1	1A	9	GLN	CA-C-O	-5.60	115.03	122.03
1	fY	10	MET	CA-C-O	5.60	126.56	120.12
1	0	76	GLU	O-C-N	-5.60	114.73	122.46
1	b	2	ILE	O-C-N	-5.60	117.26	123.20
1	f	87	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	h	20	LEU	N-CA-C	5.60	117.38	111.28
1	i	3	VAL	CA-C-N	5.60	130.45	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	3	VAL	C-N-CA	5.60	130.45	122.72
1	2	167	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	D	29	GLU	CA-C-O	5.60	125.53	119.15
1	3	31	ALA	N-CA-CB	5.60	118.84	110.22
1	H	150	ILE	O-C-N	-5.60	116.40	121.89
1	I	223	GLY	O-C-N	-5.60	116.17	121.77
1	L	2	ILE	CB-CA-C	5.60	119.12	110.50
1	L	76	GLU	CA-C-N	5.60	128.24	120.29
1	L	76	GLU	C-N-CA	5.60	128.24	120.29
1	P	49	PRO	N-CA-CB	-5.60	98.14	103.51
1	1D	33	SER	N-CA-C	-5.60	101.69	110.14
1	gR	134	ILE	O-C-N	-5.60	116.42	121.91
1	gU	58	THR	N-CA-C	5.60	119.37	112.54
1	gX	16	SER	O-C-N	-5.60	115.16	121.43
1	gY	183	ASN	CA-C-O	-5.60	114.94	120.82
1	h3	227	LYS	N-CA-C	5.60	118.44	110.10
1	hb	105	ALA	CA-C-N	5.60	130.63	122.46
1	hb	105	ALA	C-N-CA	5.60	130.63	122.46
1	hi	157	PRO	N-CA-CB	5.60	109.71	103.44
1	hk	81	ASP	N-CA-C	5.60	117.38	111.28
1	hF	23	TRP	O-C-N	-5.60	116.27	122.09
1	hM	176	GLN	N-CA-CB	-5.60	102.35	110.47
1	hP	146	SER	CA-C-O	-5.60	114.20	120.25
1	1M	120	HIS	O-C-N	-5.60	115.82	122.65
1	i4	100	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	i4	123	PRO	N-CA-C	5.60	120.11	111.21
1	i8	161	PHE	O-C-N	-5.60	115.77	122.15
1	1O	120	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	1O	211	LEU	CB-CA-C	5.60	121.56	110.42
1	if	206	GLY	O-C-N	-5.60	116.17	121.77
1	in	181	VAL	CA-C-N	5.60	127.72	120.44
1	in	181	VAL	C-N-CA	5.60	127.72	120.44
1	ir	165	VAL	CB-CA-C	-5.60	104.71	112.04
1	iw	31	ALA	O-C-N	5.60	130.04	122.59
1	iM	120	HIS	O-C-N	-5.60	114.86	122.36
1	iR	110	THR	CA-CB-OG1	5.60	118.00	109.60
1	iX	96	MET	O-C-N	-5.60	115.93	122.81
1	j5	126	VAL	CA-C-O	5.60	126.77	120.95
1	1V	152	ASP	CA-CB-CG	-5.60	107.00	112.60
1	jt	28	GLU	CA-C-O	5.60	126.35	120.42
1	jI	116	GLY	O-C-N	-5.60	115.42	122.70
1	jM	212	GLU	CA-C-N	5.60	127.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jM	212	GLU	C-N-CA	5.60	127.78	120.28
1	jZ	20	LEU	CA-C-N	5.60	127.72	120.44
1	jZ	20	LEU	C-N-CA	5.60	127.72	120.44
1	jZ	210	THR	CA-C-N	5.60	127.78	120.28
1	jZ	210	THR	C-N-CA	5.60	127.78	120.28
1	kf	214	MET	CA-C-O	-5.60	114.62	120.55
1	kG	21	ASN	CA-CB-CG	-5.60	107.00	112.60
1	kG	62	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	24	150	ILE	N-CA-C	5.60	120.28	112.50
1	kY	55	MET	CG-SD-CE	-5.60	88.59	100.90
1	26	90	PRO	CA-C-O	-5.60	115.07	121.56
1	l9	208	ALA	O-C-N	-5.60	115.14	122.59
1	le	76	GLU	N-CA-C	5.60	117.46	111.36
1	lh	12	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	lm	14	ALA	O-C-N	-5.60	116.47	122.85
1	lP	210	THR	N-CA-CB	5.60	118.36	110.36
1	2o	13	GLN	N-CA-CB	5.60	121.15	111.13
1	2t	2	ILE	N-CA-C	-5.60	100.36	108.36
1	2w	122	PRO	CA-C-N	5.60	125.57	120.03
1	2w	122	PRO	C-N-CA	5.60	125.57	120.03
1	2F	100	ARG	O-C-N	-5.60	115.26	122.20
1	2J	90	PRO	CA-C-N	5.60	128.00	120.50
1	2J	90	PRO	C-N-CA	5.60	128.00	120.50
1	2T	80	TRP	CE2-CD2-CG	-5.60	100.48	107.20
1	33	200	THR	CA-CB-OG1	5.60	118.00	109.60
1	3e	60	GLY	CA-C-N	5.60	127.69	120.64
1	3e	60	GLY	C-N-CA	5.60	127.69	120.64
1	3k	42	ALA	CA-C-N	5.60	128.82	120.31
1	3k	42	ALA	C-N-CA	5.60	128.82	120.31
1	3R	170	LYS	N-CA-C	-5.60	105.33	111.82
1	3T	105	ALA	O-C-N	-5.60	115.17	122.39
1	3X	48	THR	CA-CB-OG1	5.60	118.00	109.60
1	46	48	THR	O-C-N	-5.60	115.37	121.53
1	4e	104	ILE	O-C-N	-5.60	116.34	121.94
1	4f	41	SER	N-CA-C	5.60	117.06	111.07
1	4t	115	ILE	CA-CB-CG1	5.60	119.92	110.40
1	4A	99	PRO	N-CA-C	5.60	119.98	111.19
1	4H	169	TYR	O-C-N	-5.60	115.67	122.22
1	4V	71	GLU	O-C-N	5.60	127.84	122.07
1	58	148	THR	CA-C-O	5.60	127.26	120.99
1	5a	84	HIS	CA-C-O	-5.60	114.52	120.23
1	5d	123	PRO	CB-CA-C	5.60	118.67	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	84	HIS	CB-CA-C	-5.60	101.86	109.42
1	5i	163	ASP	N-CA-CB	-5.60	101.88	110.16
1	5s	165	VAL	CB-CA-C	-5.60	104.58	112.14
1	5x	110	THR	CA-CB-OG1	-5.60	101.20	109.60
1	5D	172	LEU	N-CA-C	5.60	119.21	112.38
1	5K	148	THR	N-CA-CB	5.60	118.45	110.44
1	5L	179	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	5M	230	VAL	CA-C-O	5.60	127.42	121.04
1	5S	21	ASN	CA-CB-CG	5.60	118.20	112.60
1	5U	84	HIS	O-C-N	-5.60	114.78	121.39
1	5V	2	ILE	CA-C-O	5.60	127.42	121.04
1	5V	114	GLN	O-C-N	-5.60	116.21	122.03
1	62	84	HIS	CA-C-O	-5.60	112.49	120.16
1	67	10	MET	N-CA-CB	5.60	121.94	111.53
1	6q	176	GLN	CA-C-O	5.60	126.05	119.28
1	6Q	103	ASP	CA-C-N	5.60	128.13	120.46
1	6Q	103	ASP	C-N-CA	5.60	128.13	120.46
1	70	167	ARG	N-CA-CB	-5.60	101.61	110.28
1	7E	174	ALA	CA-C-N	5.60	129.73	120.94
1	7E	174	ALA	C-N-CA	5.60	129.73	120.94
1	7M	215	MET	CA-C-O	5.60	126.05	119.28
1	7S	226	HIS	CA-C-O	5.60	126.53	120.43
1	7V	181	VAL	CA-C-O	-5.60	115.24	121.17
1	7W	125	PRO	N-CA-CB	-5.60	97.37	103.25
1	7Y	68	MET	N-CA-C	5.60	118.15	111.71
1	8a	164	TYR	N-CA-CB	5.60	118.35	110.12
1	8b	56	LEU	N-CA-C	5.60	118.31	111.82
1	8j	68	MET	O-C-N	-5.60	116.19	122.12
1	8E	229	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	8U	153	ILE	CB-CA-C	-5.60	104.14	111.25
1	8V	50	GLN	CA-C-N	5.60	128.57	120.79
1	8V	50	GLN	C-N-CA	5.60	128.57	120.79
1	92	56	LEU	CA-C-N	5.60	128.34	120.28
1	92	56	LEU	C-N-CA	5.60	128.34	120.28
1	92	201	ILE	O-C-N	-5.60	116.44	121.87
1	93	206	GLY	O-C-N	-5.60	116.17	121.77
1	94	173	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
1	9y	19	THR	N-CA-CB	5.60	118.08	109.91
1	9A	19	THR	CA-CB-CG2	5.60	120.02	110.50
1	9A	154	ARG	CA-C-O	-5.60	114.89	121.44
1	Y	84	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	9S	164	TYR	CA-C-N	5.60	128.13	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9S	164	TYR	C-N-CA	5.60	128.13	120.46
1	9Z	184	TRP	CA-CB-CG	5.60	124.23	113.60
1	a6	112	GLN	N-CA-C	5.60	117.38	111.28
1	ak	145	TYR	N-CA-C	5.60	120.22	113.17
1	al	52	LEU	N-CA-C	5.60	117.38	111.28
1	ap	12	HIS	CA-CB-CG	5.60	119.40	113.80
1	ar	40	PHE	CA-CB-CG	-5.60	108.20	113.80
1	ax	96	MET	CA-C-N	5.60	129.20	120.75
1	ax	96	MET	C-N-CA	5.60	129.20	120.75
1	aU	71	GLU	CA-C-O	-5.60	114.91	120.90
1	b0	164	TYR	N-CA-C	5.60	117.38	111.28
1	b3	33	SER	CA-C-O	-5.60	114.20	119.91
1	b5	125	PRO	CA-C-N	5.60	128.13	120.46
1	b5	125	PRO	C-N-CA	5.60	128.13	120.46
1	bq	165	VAL	N-CA-C	5.60	116.33	110.62
1	bz	186	THR	OG1-CB-CG2	-5.60	98.11	109.30
1	bA	167	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	bE	199	LYS	CA-C-O	-5.60	113.77	120.10
1	bI	24	VAL	N-CA-C	5.60	116.33	110.62
1	bM	65	ALA	CA-C-N	5.60	127.72	120.44
1	bM	65	ALA	C-N-CA	5.60	127.72	120.44
1	bY	22	ALA	N-CA-C	5.60	117.38	111.28
1	c6	152	ASP	O-C-N	-5.60	114.11	122.39
1	cp	18	ARG	CA-C-N	5.60	127.78	120.28
1	cp	18	ARG	C-N-CA	5.60	127.78	120.28
1	cr	133	TRP	CA-C-N	5.60	127.61	120.56
1	cr	133	TRP	C-N-CA	5.60	127.61	120.56
1	ct	109	SER	CA-C-N	5.60	130.33	120.87
1	ct	109	SER	C-N-CA	5.60	130.33	120.87
1	cA	140	LYS	N-CA-CB	5.60	118.35	110.12
1	cB	159	GLU	CA-C-N	5.60	125.55	119.78
1	cB	159	GLU	C-N-CA	5.60	125.55	119.78
1	cD	150	ILE	N-CA-C	5.60	116.33	110.62
1	d0	208	ALA	O-C-N	-5.60	115.17	122.39
1	d3	61	GLY	CA-C-N	5.60	130.69	122.63
1	d3	61	GLY	C-N-CA	5.60	130.69	122.63
1	d7	84	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
1	1j	166	ASP	CA-C-N	5.60	128.24	120.29
1	1j	166	ASP	C-N-CA	5.60	128.24	120.29
1	di	86	VAL	CA-C-N	5.60	128.71	120.82
1	di	86	VAL	C-N-CA	5.60	128.71	120.82
1	1k	55	MET	CA-C-O	-5.60	114.94	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dv	173	ARG	CA-C-N	5.60	127.78	120.28
1	dv	173	ARG	C-N-CA	5.60	127.78	120.28
1	dx	182	LYS	N-CA-CB	5.60	118.35	110.12
1	dF	57	ASN	N-CA-CB	5.60	118.96	110.28
1	dG	71	GLU	O-C-N	-5.60	115.67	122.22
1	dH	173	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	dL	146	SER	CB-CA-C	-5.60	104.62	110.33
1	dN	144	MET	CA-C-O	5.60	126.41	119.97
1	dT	164	TYR	CA-C-O	-5.60	114.62	120.55
1	1o	205	LEU	CA-C-N	5.60	130.66	121.87
1	1o	205	LEU	C-N-CA	5.60	130.66	121.87
1	ea	64	ALA	CA-C-N	5.60	127.72	120.44
1	ea	64	ALA	C-N-CA	5.60	127.72	120.44
1	eb	19	THR	CA-C-N	5.60	127.72	120.44
1	eb	19	THR	C-N-CA	5.60	127.72	120.44
1	em	224	PRO	CA-C-N	5.60	129.55	121.54
1	em	224	PRO	C-N-CA	5.60	129.55	121.54
1	ep	155	GLN	CB-CA-C	5.60	119.75	110.74
1	ew	189	LEU	CA-C-O	5.60	126.70	120.82
1	ey	16	SER	N-CA-CB	5.60	118.28	110.11
1	eI	88	ALA	CA-C-O	5.60	127.14	120.70
1	eO	204	ALA	CA-C-N	5.60	128.34	120.28
1	eO	204	ALA	C-N-CA	5.60	128.34	120.28
1	fk	218	CYS	CA-C-O	5.60	126.56	120.12
1	fm	99	PRO	CA-C-N	5.60	132.35	122.67
1	fm	99	PRO	C-N-CA	5.60	132.35	122.67
1	fr	177	ALA	N-CA-CB	5.60	118.37	110.36
1	fs	82	ARG	CA-C-N	5.60	127.72	120.44
1	fs	82	ARG	C-N-CA	5.60	127.72	120.44
1	fJ	174	ALA	CA-C-O	5.60	126.40	119.79
1	fS	169	TYR	N-CA-CB	5.60	118.35	110.12
1	1	74	ASN	OD1-CG-ND2	-5.60	117.00	122.60
1	s	183	ASN	CA-C-N	5.60	128.24	120.29
1	s	183	ASN	C-N-CA	5.60	128.24	120.29
1	2	205	LEU	O-C-N	-5.60	115.92	122.81
1	w	130	TYR	CA-C-O	5.60	126.67	120.63
1	E	19	THR	CA-C-O	5.60	126.48	120.55
1	J	101	GLY	CA-C-O	-5.60	114.36	120.40
1	O	28	GLU	N-CA-C	5.60	117.06	111.07
1	X	159	GLU	CA-C-O	-5.60	115.56	120.60
1	g8	124	ILE	N-CA-C	-5.60	101.61	107.60
1	gd	226	HIS	CE1-NE2-CD2	-5.60	103.40	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gq	97	ARG	NE-CZ-NH2	-5.60	114.16	119.20
1	gD	130	TYR	CA-C-O	5.60	126.70	120.82
1	1H	150	ILE	CA-C-O	5.60	126.79	119.85
1	i5	226	HIS	CA-CB-CG	5.60	119.40	113.80
1	id	48	THR	CA-C-O	-5.60	114.88	120.64
1	jn	156	GLY	O-C-N	-5.60	116.17	121.77
1	k0	161	PHE	CA-C-N	5.60	128.09	120.54
1	k0	161	PHE	C-N-CA	5.60	128.09	120.54
1	kx	84	HIS	ND1-CE1-NE2	5.60	114.00	108.40
1	2D	107	THR	CA-C-O	5.60	125.56	119.24
1	3a	209	ALA	N-CA-C	5.60	118.13	110.24
1	3A	139	ASN	CA-CB-CG	5.60	118.20	112.60
1	3B	18	ARG	N-CA-CB	5.60	118.35	110.12
1	3D	203	LYS	CA-C-N	5.60	128.24	120.29
1	3D	203	LYS	C-N-CA	5.60	128.24	120.29
1	3S	33	SER	N-CA-C	-5.60	103.09	108.07
1	47	40	PHE	O-C-N	-5.60	116.19	122.12
1	4q	192	GLN	CA-C-O	5.60	126.70	120.82
1	4R	114	GLN	N-CA-C	5.60	117.83	111.11
1	5b	80	TRP	CA-C-O	5.60	126.46	120.70
1	5y	208	ALA	N-CA-CB	-5.60	102.81	111.65
1	5U	75	GLU	N-CA-C	5.60	117.83	111.11
1	5X	217	ALA	N-CA-C	5.60	117.75	110.53
1	62	51	ASP	N-CA-C	5.60	117.38	111.28
1	6s	139	ASN	CA-C-O	5.60	126.48	120.55
1	6u	171	THR	N-CA-C	5.60	118.31	111.82
1	6F	80	TRP	CB-CG-CD1	5.60	135.29	126.90
1	7a	197	ASP	CA-C-O	5.60	126.67	120.63
1	7D	82	ARG	N-CA-C	5.60	118.14	111.71
1	7K	140	LYS	CB-CA-C	-5.60	101.34	110.85
1	86	148	THR	N-CA-C	5.60	117.96	110.35
1	8a	65	ALA	O-C-N	-5.60	114.95	122.23
1	8g	87	HIS	CA-C-N	5.60	130.07	122.07
1	8g	87	HIS	C-N-CA	5.60	130.07	122.07
1	8i	156	GLY	CA-C-N	5.60	125.12	119.19
1	8i	156	GLY	C-N-CA	5.60	125.12	119.19
1	8A	27	VAL	CA-C-N	5.60	127.78	120.28
1	8A	27	VAL	C-N-CA	5.60	127.78	120.28
1	8A	184	TRP	CA-C-N	5.60	128.05	120.38
1	8A	184	TRP	C-N-CA	5.60	128.05	120.38
1	8N	164	TYR	CD1-CG-CD2	5.60	126.49	118.10
1	91	148	THR	CA-CB-OG1	5.60	117.99	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9y	184	TRP	CB-CG-CD1	-5.60	118.51	126.90
1	a9	10	MET	CG-SD-CE	-5.60	88.59	100.90
1	ad	120	HIS	CA-CB-CG	-5.60	108.20	113.80
1	ar	31	ALA	N-CA-C	5.60	118.10	111.33
1	aw	213	GLU	CB-CG-CD	-5.60	103.09	112.60
1	ax	12	HIS	CA-C-O	-5.60	114.17	120.32
1	aO	2	ILE	N-CA-CB	-5.60	103.69	111.41
1	15	182	LYS	N-CA-C	5.60	117.06	111.07
1	aZ	118	MET	N-CA-C	5.60	117.38	111.28
1	b6	93	PRO	CB-CA-C	5.60	118.75	111.64
1	bE	170	LYS	CA-C-N	5.60	127.78	120.28
1	bE	170	LYS	C-N-CA	5.60	127.78	120.28
1	c1	192	GLN	N-CA-C	5.60	118.10	111.33
1	1c	66	MET	N-CA-C	5.60	117.38	111.28
1	ce	153	ILE	CB-CA-C	-5.60	105.25	111.35
1	cg	221	VAL	N-CA-C	5.60	118.62	109.78
1	1g	58	THR	N-CA-CB	5.60	118.87	110.53
1	cW	74	ASN	CA-CB-CG	-5.60	107.00	112.60
1	d1	207	PRO	N-CA-C	-5.60	107.35	114.35
1	dg	62	HIS	CA-CB-CG	5.60	119.40	113.80
1	dq	177	ALA	N-CA-C	5.60	117.52	110.24
1	dB	110	THR	CA-CB-CG2	5.60	120.01	110.50
1	ec	120	HIS	N-CA-C	5.60	117.29	110.41
1	fa	205	LEU	CA-C-O	5.60	126.45	120.24
1	fi	141	ILE	CB-CA-C	-5.60	103.19	112.26
1	fq	76	GLU	CA-C-N	5.60	128.81	120.31
1	fq	76	GLU	C-N-CA	5.60	128.81	120.31
1	fD	183	ASN	CA-CB-CG	-5.60	107.00	112.60
1	fQ	138	LEU	N-CA-CB	-5.60	101.89	110.12
1	g3	111	LEU	N-CA-CB	5.60	118.44	110.16
1	0	179	GLN	CB-CG-CD	5.60	122.11	112.60
1	S	15	ILE	CA-C-O	5.60	127.52	121.36
1	5	142	VAL	CA-C-O	5.60	126.77	120.95
1	8	39	MET	CA-C-N	5.60	128.09	120.54
1	8	39	MET	C-N-CA	5.60	128.09	120.54
1	gc	150	ILE	CA-CB-CG2	-5.59	100.99	110.50
1	gn	176	GLN	CA-C-O	5.59	126.08	119.48
1	gq	120	HIS	CB-CG-CD2	-5.59	123.93	131.20
1	gs	180	GLU	CA-C-O	5.59	126.40	119.97
1	gN	229	ARG	CB-CG-CD	5.59	124.17	111.30
1	ha	130	TYR	CA-C-O	-5.59	114.94	120.70
1	1I	18	ARG	NH1-CZ-NH2	-5.59	112.03	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hm	163	ASP	N-CA-C	5.59	117.38	111.28
1	hA	71	GLU	N-CA-C	5.59	118.14	111.71
1	hL	123	PRO	CA-C-N	-5.59	114.51	123.46
1	hL	123	PRO	C-N-CA	-5.59	114.51	123.46
1	hV	79	GLU	CA-C-O	5.59	126.40	119.97
1	1N	91	ILE	CA-CB-CG1	5.59	119.91	110.40
1	1N	184	TRP	N-CA-C	5.59	117.82	111.11
1	i4	53	ASN	N-CA-C	5.59	117.38	111.28
1	if	12	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	im	161	PHE	N-CA-C	5.59	117.18	111.14
1	it	136	LEU	CA-C-O	5.59	126.35	120.42
1	iw	54	THR	CA-C-N	5.59	128.05	120.44
1	iw	54	THR	C-N-CA	5.59	128.05	120.44
1	1R	173	ARG	N-CA-CB	-5.59	101.67	110.06
1	iX	162	ARG	N-CA-C	5.59	118.14	111.71
1	j1	180	GLU	N-CA-C	-5.59	106.62	113.50
1	1T	226	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	jb	208	ALA	N-CA-CB	-5.59	102.16	110.61
1	jr	164	TYR	N-CA-C	5.59	117.06	111.07
1	jt	161	PHE	N-CA-CB	-5.59	103.92	110.35
1	1W	172	LEU	CB-CA-C	5.59	120.36	110.85
1	jB	21	ASN	N-CA-C	5.59	117.38	111.28
1	jF	23	TRP	CB-CG-CD2	5.59	134.63	126.80
1	jF	124	ILE	CA-C-N	5.59	126.83	119.84
1	jF	124	ILE	C-N-CA	5.59	126.83	119.84
1	jM	165	VAL	O-C-N	-5.59	116.41	121.89
1	ki	216	THR	O-C-N	-5.59	115.09	122.42
1	kv	143	ARG	NE-CZ-NH1	-5.59	115.91	121.50
1	kw	13	GLN	CA-C-O	5.59	127.99	121.44
1	kK	65	ALA	CA-C-N	5.59	128.04	120.38
1	kK	65	ALA	C-N-CA	5.59	128.04	120.38
1	kY	53	ASN	CA-CB-CG	-5.59	107.00	112.60
1	l1	18	ARG	CB-CG-CD	5.59	124.17	111.30
1	26	24	VAL	CB-CA-C	5.59	119.13	111.97
1	26	190	LEU	CD1-CG-CD2	-5.59	98.49	110.80
1	lf	193	ASN	CB-CA-C	-5.59	101.71	110.94
1	lh	55	MET	O-C-N	-5.59	116.05	122.09
1	ln	138	LEU	CA-C-N	5.59	128.09	120.54
1	ln	138	LEU	C-N-CA	5.59	128.09	120.54
1	lq	34	PRO	N-CA-C	5.59	120.91	114.03
1	ly	23	TRP	CA-C-O	5.59	126.48	120.55
1	2e	3	VAL	CA-C-N	5.59	130.52	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	3	VAL	C-N-CA	5.59	130.52	122.35
1	2n	21	ASN	CA-C-N	5.59	128.03	120.65
1	2n	21	ASN	C-N-CA	5.59	128.03	120.65
1	2u	159	GLU	O-C-N	-5.59	115.98	121.18
1	2z	164	TYR	CA-C-N	5.59	128.12	120.46
1	2z	164	TYR	C-N-CA	5.59	128.12	120.46
1	32	38	PRO	O-C-N	5.59	129.82	122.27
1	32	84	HIS	CA-CB-CG	5.59	119.39	113.80
1	39	111	LEU	CA-C-N	5.59	128.34	120.28
1	39	111	LEU	C-N-CA	5.59	128.34	120.28
1	3g	223	GLY	O-C-N	-5.59	116.17	121.77
1	3z	83	LEU	N-CA-C	5.59	117.18	111.14
1	3D	126	VAL	CA-C-N	5.59	126.04	119.94
1	3D	126	VAL	C-N-CA	5.59	126.04	119.94
1	4a	201	ILE	CA-C-N	5.59	127.71	120.44
1	4a	201	ILE	C-N-CA	5.59	127.71	120.44
1	4i	166	ASP	CA-CB-CG	5.59	118.19	112.60
1	4m	4	GLN	OE1-CD-NE2	-5.59	117.00	122.60
1	4r	151	LEU	N-CA-C	5.59	117.06	111.07
1	4F	214	MET	CA-C-N	5.59	127.78	120.28
1	4F	214	MET	C-N-CA	5.59	127.78	120.28
1	4G	27	VAL	CA-C-N	5.59	127.71	120.44
1	4G	27	VAL	C-N-CA	5.59	127.71	120.44
1	4V	40	PHE	N-CA-C	5.59	117.06	111.07
1	5p	31	ALA	N-CA-C	5.59	117.46	111.36
1	5J	207	PRO	CA-C-N	5.59	130.35	122.46
1	5J	207	PRO	C-N-CA	5.59	130.35	122.46
1	5L	39	MET	CG-SD-CE	-5.59	88.59	100.90
1	5L	104	ILE	O-C-N	-5.59	115.48	121.80
1	5M	149	SER	CA-CB-OG	5.59	122.29	111.10
1	5P	90	PRO	CA-C-O	-5.59	115.22	121.32
1	68	125	PRO	CA-C-N	5.59	128.42	120.53
1	68	125	PRO	C-N-CA	5.59	128.42	120.53
1	6f	55	MET	CA-C-N	5.59	127.71	120.44
1	6f	55	MET	C-N-CA	5.59	127.71	120.44
1	6g	193	ASN	CA-CB-CG	-5.59	107.00	112.60
1	6n	120	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	6n	224	PRO	N-CA-CB	5.59	109.64	103.26
1	6q	214	MET	O-C-N	-5.59	115.39	122.27
1	6D	227	LYS	CA-C-N	5.59	130.39	121.66
1	6D	227	LYS	C-N-CA	5.59	130.39	121.66
1	6I	191	VAL	CA-C-N	5.59	127.71	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	191	VAL	C-N-CA	5.59	127.71	120.44
1	6K	91	ILE	O-C-N	-5.59	115.58	122.57
1	7m	117	TRP	CA-C-O	5.59	126.48	120.55
1	7n	86	VAL	CA-C-O	5.59	127.22	121.23
1	7P	120	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	7R	112	GLN	O-C-N	-5.59	115.67	122.22
1	7W	24	VAL	N-CA-C	-5.59	105.27	110.53
1	8i	141	ILE	CA-C-O	-5.59	115.24	121.17
1	8p	95	GLN	N-CA-C	5.59	118.34	110.23
1	8H	40	PHE	CA-C-O	5.59	126.48	120.55
1	8W	6	LEU	N-CA-CB	5.59	119.52	110.40
1	90	212	GLU	N-CA-C	5.59	117.06	111.07
1	9b	33	SER	N-CA-C	-5.59	103.19	108.22
1	9p	134	ILE	N-CA-CB	5.59	117.09	110.55
1	9q	193	ASN	CA-C-O	-5.59	114.62	120.55
1	9C	87	HIS	CG-CD2-NE2	5.59	112.80	107.20
1	9K	197	ASP	CA-CB-CG	5.59	118.19	112.60
1	9N	161	PHE	O-C-N	-5.59	116.19	122.12
1	Y	100	ARG	O-C-N	-5.59	116.08	122.68
1	9W	229	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	a3	208	ALA	CA-C-O	5.59	125.44	119.34
1	a5	126	VAL	N-CA-C	5.59	116.33	110.62
1	ab	29	GLU	N-CA-C	5.59	120.10	112.04
1	af	191	VAL	CA-C-N	5.59	128.23	120.29
1	af	191	VAL	C-N-CA	5.59	128.23	120.29
1	aB	118	MET	O-C-N	-5.59	116.19	122.12
1	14	7	GLN	CA-C-O	5.59	125.98	119.32
1	b0	87	HIS	N-CA-CB	5.59	119.94	110.49
1	b3	56	LEU	CB-CA-C	-5.59	101.50	110.79
1	b3	229	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	b4	86	VAL	N-CA-CB	-5.59	104.62	111.00
1	bc	131	LYS	O-C-N	-5.59	116.19	122.12
1	bh	84	HIS	CA-C-N	5.59	126.83	119.84
1	bh	84	HIS	C-N-CA	5.59	126.83	119.84
1	bm	112	GLN	N-CA-C	5.59	118.14	111.71
1	bJ	82	ARG	N-CA-C	5.59	117.38	111.28
1	bM	145	TYR	CA-C-O	5.59	126.20	119.43
1	bP	125	PRO	CA-C-N	5.59	128.42	120.53
1	bP	125	PRO	C-N-CA	5.59	128.42	120.53
1	bV	86	VAL	N-CA-C	5.59	116.80	109.58
1	bV	127	GLY	CA-C-O	5.59	126.08	120.09
1	ca	175	GLU	CA-C-N	5.59	128.81	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	175	GLU	C-N-CA	5.59	128.81	120.31
1	cc	10	MET	CA-C-O	5.59	128.76	122.27
1	cc	185	MET	CA-C-O	-5.59	114.62	120.55
1	ce	39	MET	CA-C-N	5.59	127.78	120.28
1	ce	39	MET	C-N-CA	5.59	127.78	120.28
1	cf	194	ALA	CA-C-N	5.59	128.17	120.39
1	cf	194	ALA	C-N-CA	5.59	128.17	120.39
1	cl	222	GLY	CA-C-N	5.59	130.65	121.87
1	cl	222	GLY	C-N-CA	5.59	130.65	121.87
1	co	26	VAL	N-CA-C	5.59	116.23	110.36
1	co	57	ASN	N-CA-CB	5.59	118.34	110.12
1	cu	196	PRO	O-C-N	-5.59	116.14	122.18
1	cw	178	SER	N-CA-C	5.59	118.59	110.42
1	cG	11	VAL	N-CA-C	5.59	116.79	108.23
1	cM	132	ARG	O-C-N	-5.59	116.19	122.12
1	cT	154	ARG	N-CA-C	-5.59	100.57	109.07
1	cX	192	GLN	OE1-CD-NE2	-5.59	117.00	122.60
1	dv	54	THR	CA-CB-CG2	5.59	120.01	110.50
1	dx	98	GLU	N-CA-C	-5.59	102.99	109.93
1	dG	40	PHE	CA-CB-CG	5.59	119.39	113.80
1	dM	82	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
1	dM	203	LYS	CA-C-N	5.59	127.78	120.28
1	dM	203	LYS	C-N-CA	5.59	127.78	120.28
1	dM	226	HIS	CA-CB-CG	-5.59	108.21	113.80
1	dQ	150	ILE	N-CA-C	5.59	115.79	110.42
1	dW	86	VAL	CA-C-O	5.59	128.50	121.40
1	1o	186	THR	CA-CB-OG1	-5.59	101.21	109.60
1	1q	100	ARG	CA-C-N	5.59	126.15	119.94
1	1q	100	ARG	C-N-CA	5.59	126.15	119.94
1	eo	198	CYS	O-C-N	-5.59	116.19	122.12
1	et	104	ILE	O-C-N	-5.59	116.41	121.89
1	ey	144	MET	CA-C-O	-5.59	114.92	120.90
1	eC	41	SER	O-C-N	-5.59	116.31	122.07
1	eJ	137	GLY	N-CA-C	5.59	119.93	112.77
1	eP	172	LEU	N-CA-C	5.59	120.10	112.88
1	eU	50	GLN	OE1-CD-NE2	-5.59	117.01	122.60
1	fj	117	TRP	O-C-N	-5.59	116.19	122.12
1	fo	143	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	fB	119	THR	N-CA-CB	5.59	119.06	110.61
1	fK	39	MET	CA-C-N	5.59	127.71	120.44
1	fK	39	MET	C-N-CA	5.59	127.71	120.44
1	fK	180	GLU	CA-C-O	-5.59	112.50	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	96	MET	N-CA-C	5.59	117.76	110.43
1	k	16	SER	N-CA-CB	5.59	119.92	109.68
1	2	175	GLU	O-C-N	-5.59	116.26	122.86
1	B	132	ARG	N-CA-C	5.59	117.82	111.11
1	E	76	GLU	N-CA-C	5.59	117.38	111.28
1	I	124	ILE	CA-C-O	-5.59	114.88	119.47
1	L	169	TYR	N-CA-C	5.59	118.31	111.82
1	4	228	ALA	O-C-N	-5.59	115.98	122.86
1	P	194	ALA	N-CA-C	5.59	117.55	110.33
1	W	37	ILE	N-CA-C	5.59	119.06	112.35
1	6	47	ALA	CA-C-O	5.59	127.24	120.81
1	go	197	ASP	N-CA-C	5.59	117.06	111.07
1	gJ	12	HIS	N-CA-C	5.59	117.34	108.67
1	hM	225	GLY	CA-C-N	5.59	128.65	120.71
1	hM	225	GLY	C-N-CA	5.59	128.65	120.71
1	hV	117	TRP	N-CA-CB	-5.59	101.90	110.12
1	iu	121	ASN	OD1-CG-ND2	-5.59	117.01	122.60
1	ix	50	GLN	OE1-CD-NE2	5.59	128.19	122.60
1	iW	54	THR	N-CA-CB	5.59	118.12	110.01
1	iW	139	ASN	CA-CB-CG	5.59	118.19	112.60
1	je	120	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	jA	24	VAL	CA-C-N	5.59	127.77	120.28
1	jA	24	VAL	C-N-CA	5.59	127.77	120.28
1	jG	183	ASN	CA-CB-CG	-5.59	107.01	112.60
1	k0	226	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	k2	175	GLU	CB-CA-C	5.59	119.00	109.72
1	k4	114	GLN	N-CA-C	5.59	117.05	111.07
1	k6	218	CYS	O-C-N	-5.59	115.58	122.57
1	kc	74	ASN	CA-C-O	5.59	126.46	120.70
1	kt	7	GLN	N-CA-C	-5.59	106.04	112.92
1	kx	9	GLN	CB-CG-CD	5.59	122.11	112.60
1	kI	87	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	kI	132	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	kL	43	LEU	N-CA-C	5.59	117.38	111.28
1	kP	160	PRO	N-CA-C	5.59	120.27	111.38
1	25	113	GLU	CA-C-N	5.59	128.23	120.29
1	25	113	GLU	C-N-CA	5.59	128.23	120.29
1	l8	227	LYS	CB-CA-C	5.59	118.95	109.50
1	lh	150	ILE	O-C-N	5.59	127.30	121.87
1	lt	88	ALA	CA-C-O	5.59	127.07	120.58
1	lx	140	LYS	CB-CA-C	-5.59	101.34	110.85
1	lE	100	ARG	NE-CZ-NH1	5.59	127.09	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lK	105	ALA	CA-C-O	5.59	126.27	119.11
1	2m	184	TRP	CA-C-N	5.59	127.78	120.28
1	2m	184	TRP	C-N-CA	5.59	127.78	120.28
1	2p	109	SER	CA-C-O	5.59	126.64	120.71
1	2t	131	LYS	CA-C-O	-5.59	114.59	120.63
1	2M	177	ALA	N-CA-C	5.59	122.71	110.80
1	3y	190	LEU	CB-CA-C	-5.59	101.51	110.79
1	3C	210	THR	CA-CB-OG1	5.59	117.99	109.60
1	40	140	LYS	N-CA-C	5.59	117.82	111.11
1	44	64	ALA	CA-C-N	5.59	128.23	120.29
1	44	64	ALA	C-N-CA	5.59	128.23	120.29
1	4J	118	MET	CG-SD-CE	-5.59	88.60	100.90
1	4L	139	ASN	CA-CB-CG	-5.59	107.01	112.60
1	5l	79	GLU	CA-C-N	5.59	127.77	120.28
1	5l	79	GLU	C-N-CA	5.59	127.77	120.28
1	5K	77	ALA	CA-C-N	5.59	127.78	120.28
1	5K	77	ALA	C-N-CA	5.59	127.78	120.28
1	6f	5	ASN	CA-CB-CG	-5.59	107.01	112.60
1	6j	159	GLU	N-CA-C	5.59	118.12	110.01
1	6A	150	ILE	CA-C-N	5.59	128.81	120.31
1	6A	150	ILE	C-N-CA	5.59	128.81	120.31
1	6C	52	LEU	CB-CA-C	5.59	119.66	110.88
1	6E	193	ASN	CA-CB-CG	-5.59	107.01	112.60
1	6M	197	ASP	CA-C-O	5.59	126.69	120.82
1	7p	133	TRP	O-C-N	5.59	128.05	122.12
1	7p	195	ASN	CA-C-N	5.59	126.83	119.84
1	7p	195	ASN	C-N-CA	5.59	126.83	119.84
1	7N	152	ASP	CA-CB-CG	-5.59	107.01	112.60
1	7P	221	VAL	O-C-N	-5.59	116.44	121.87
1	8l	99	PRO	N-CD-CG	5.59	111.59	103.20
1	8U	104	ILE	N-CA-C	5.59	117.00	110.62
1	9t	83	LEU	O-C-N	-5.59	116.19	122.12
1	9F	98	GLU	O-C-N	-5.59	115.54	121.30
1	9K	165	VAL	O-C-N	-5.59	116.44	121.87
1	9T	40	PHE	CA-C-O	5.59	126.35	120.42
1	9X	10	MET	N-CA-C	5.59	118.35	109.96
1	a2	42	ALA	O-C-N	5.59	128.53	122.15
1	ae	45	GLU	CA-C-N	5.59	130.88	120.87
1	ae	45	GLU	C-N-CA	5.59	130.88	120.87
1	bq	133	TRP	CA-CB-CG	5.59	124.23	113.60
1	bQ	115	ILE	CB-CA-C	-5.59	104.75	112.24
1	ca	68	MET	CA-C-N	5.59	127.78	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	68	MET	C-N-CA	5.59	127.78	120.28
1	cm	126	VAL	CA-C-N	5.59	127.13	120.14
1	cm	126	VAL	C-N-CA	5.59	127.13	120.14
1	cJ	181	VAL	N-CA-C	5.59	115.79	110.42
1	cN	59	VAL	CA-C-N	5.59	126.04	119.94
1	cN	59	VAL	C-N-CA	5.59	126.04	119.94
1	cR	51	ASP	CA-C-N	5.59	127.77	120.28
1	cR	51	ASP	C-N-CA	5.59	127.77	120.28
1	d9	181	VAL	CB-CA-C	-5.59	104.81	111.97
1	dj	162	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	dk	190	LEU	CA-C-N	5.59	127.61	120.56
1	dk	190	LEU	C-N-CA	5.59	127.61	120.56
1	dU	136	LEU	CA-C-N	5.59	126.19	119.98
1	dU	136	LEU	C-N-CA	5.59	126.19	119.98
1	dU	192	GLN	CA-C-N	5.59	132.49	121.58
1	dU	192	GLN	C-N-CA	5.59	132.49	121.58
1	e1	16	SER	CA-C-O	-5.59	115.18	119.32
1	ej	103	ASP	N-CA-C	5.59	117.38	111.28
1	ez	87	HIS	CA-CB-CG	5.59	119.39	113.80
1	eG	209	ALA	N-CA-C	5.59	122.71	110.80
1	eL	33	SER	N-CA-CB	-5.59	103.36	111.25
1	fl	187	GLU	CB-CG-CD	-5.59	103.09	112.60
1	fn	218	CYS	N-CA-C	5.59	118.01	111.02
1	fw	222	GLY	CA-C-N	5.59	130.65	121.87
1	fw	222	GLY	C-N-CA	5.59	130.65	121.87
1	1y	110	THR	N-CA-C	5.59	119.21	110.32
1	g5	195	ASN	CA-CB-CG	5.59	118.19	112.60
1	l	82	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	y	162	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	A	95	GLN	N-CA-C	5.59	118.34	109.50
1	5	188	THR	CA-C-O	-5.59	114.49	120.42
1	gh	84	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	1C	146	SER	CA-C-N	5.59	125.59	119.89
1	1C	146	SER	C-N-CA	5.59	125.59	119.89
1	gz	62	HIS	O-C-N	-5.59	115.58	122.57
1	gL	118	MET	N-CA-C	5.59	119.27	112.23
1	gW	79	GLU	CA-C-O	5.59	126.88	120.90
1	h6	22	ALA	CA-C-N	5.59	127.71	120.44
1	h6	22	ALA	C-N-CA	5.59	127.71	120.44
1	h6	53	ASN	OD1-CG-ND2	5.59	128.19	122.60
1	h7	230	VAL	CA-C-O	5.59	127.09	120.72
1	hc	219	GLN	OE1-CD-NE2	-5.59	117.01	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	114	GLN	CA-C-N	5.59	127.81	120.60
1	hf	114	GLN	C-N-CA	5.59	127.81	120.60
1	ht	136	LEU	CA-C-O	-5.59	114.95	120.82
1	hx	184	TRP	CZ3-CH2-CZ2	5.59	128.77	121.50
1	hz	159	GLU	N-CA-C	5.59	117.54	109.04
1	hO	4	GLN	N-CA-CB	5.59	119.94	110.49
1	ii	226	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	1P	190	LEU	N-CA-C	5.59	120.09	113.16
1	it	56	LEU	N-CA-C	5.59	117.07	110.97
1	1Q	130	TYR	O-C-N	-5.59	116.19	122.12
1	iz	30	LYS	CB-CG-CD	5.59	124.16	111.30
1	iF	154	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	iG	81	ASP	N-CA-C	5.59	118.14	111.71
1	iH	52	LEU	N-CA-CB	-5.59	101.89	110.16
1	iI	169	TYR	N-CA-C	5.59	117.38	111.28
1	j8	143	ARG	CA-CB-CG	5.59	125.28	114.10
1	jc	199	LYS	N-CA-C	5.59	118.09	111.33
1	jf	56	LEU	N-CA-CB	-5.59	101.89	110.16
1	jh	115	ILE	CA-C-N	5.59	126.31	119.99
1	jh	115	ILE	C-N-CA	5.59	126.31	119.99
1	jx	12	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	jA	82	ARG	CA-C-N	5.59	127.77	120.28
1	jA	82	ARG	C-N-CA	5.59	127.77	120.28
1	jD	32	PHE	N-CA-C	5.59	117.51	110.24
1	jJ	210	THR	O-C-N	-5.59	115.83	122.65
1	jN	6	LEU	N-CA-CB	5.59	118.53	110.20
1	jN	27	VAL	CA-C-N	5.59	128.23	120.29
1	jN	27	VAL	C-N-CA	5.59	128.23	120.29
1	jP	85	PRO	N-CA-CB	5.59	108.53	103.33
1	jT	78	ALA	O-C-N	-5.59	114.84	122.33
1	jY	198	CYS	CA-C-N	5.59	127.77	120.28
1	jY	198	CYS	C-N-CA	5.59	127.77	120.28
1	ka	128	GLU	N-CA-C	5.59	117.45	111.36
1	kk	164	TYR	CA-C-N	5.59	127.61	120.56
1	kk	164	TYR	C-N-CA	5.59	127.61	120.56
1	kG	18	ARG	O-C-N	-5.59	116.19	122.12
1	kV	230	VAL	CB-CA-C	5.59	118.26	110.99
1	ll	87	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	lE	77	ALA	N-CA-C	5.59	117.82	111.11
1	lG	26	VAL	O-C-N	-5.59	116.18	121.94
1	lJ	169	TYR	O-C-N	5.59	128.53	122.15
1	2b	230	VAL	N-CA-C	5.59	117.24	109.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2G	113	GLU	N-CA-CB	5.59	118.34	110.12
1	2G	182	LYS	N-CA-C	5.59	117.37	111.28
1	2M	14	ALA	CA-C-N	5.59	128.85	120.69
1	2M	14	ALA	C-N-CA	5.59	128.85	120.69
1	2W	230	VAL	CB-CA-C	-5.59	105.38	110.63
1	2Z	18	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
1	3q	112	GLN	N-CA-C	5.59	117.38	111.28
1	3B	62	HIS	CA-CB-CG	-5.59	108.21	113.80
1	3O	124	ILE	CB-CA-C	5.59	116.46	110.53
1	3X	68	MET	CA-C-N	5.59	127.77	120.28
1	3X	68	MET	C-N-CA	5.59	127.77	120.28
1	46	118	MET	CA-C-O	-5.59	114.62	120.55
1	4l	89	GLY	CA-C-N	5.59	126.83	119.84
1	4l	89	GLY	C-N-CA	5.59	126.83	119.84
1	4m	201	ILE	CA-C-O	-5.59	114.92	120.85
1	4w	180	GLU	O-C-N	-5.59	116.19	122.12
1	4x	218	CYS	O-C-N	-5.59	115.01	122.00
1	4W	90	PRO	O-C-N	-5.59	115.79	122.89
1	5e	159	GLU	O-C-N	-5.59	115.69	121.28
1	5l	10	MET	CG-SD-CE	-5.59	88.60	100.90
1	5C	29	GLU	CB-CG-CD	5.59	122.11	112.60
1	5U	199	LYS	CA-CB-CG	-5.59	102.92	114.10
1	60	171	THR	N-CA-CB	5.59	118.27	109.94
1	61	217	ALA	N-CA-CB	5.59	118.04	110.38
1	64	176	GLN	O-C-N	-5.59	115.60	122.25
1	68	123	PRO	CA-C-N	5.59	129.40	123.25
1	68	123	PRO	C-N-CA	5.59	129.40	123.25
1	6d	191	VAL	CA-C-O	5.59	125.73	120.14
1	6i	220	GLY	CA-C-O	-5.59	112.66	119.03
1	6B	70	LYS	N-CA-C	5.59	117.38	111.28
1	6J	187	GLU	CA-C-N	5.59	127.71	120.44
1	6J	187	GLU	C-N-CA	5.59	127.71	120.44
1	6X	140	LYS	O-C-N	-5.59	116.31	122.07
1	70	195	ASN	N-CA-CB	5.59	118.02	110.14
1	79	67	GLN	CA-C-N	5.59	128.23	120.29
1	79	67	GLN	C-N-CA	5.59	128.23	120.29
1	7h	12	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	7y	115	ILE	CA-C-N	5.59	126.19	119.98
1	7y	115	ILE	C-N-CA	5.59	126.19	119.98
1	7H	208	ALA	O-C-N	-5.59	115.12	122.39
1	83	113	GLU	N-CA-CB	5.59	118.34	110.12
1	8t	94	GLY	N-CA-C	-5.59	107.39	115.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8z	228	ALA	N-CA-C	5.59	118.43	110.10
1	8H	219	GLN	N-CA-C	5.59	118.25	108.52
1	8J	139	ASN	CA-CB-CG	-5.59	107.01	112.60
1	8O	163	ASP	CA-CB-CG	5.59	118.19	112.60
1	93	183	ASN	OD1-CG-ND2	-5.59	117.01	122.60
1	9b	227	LYS	CA-C-O	-5.59	115.62	121.55
1	9d	51	ASP	CA-C-N	5.59	128.09	120.54
1	9d	51	ASP	C-N-CA	5.59	128.09	120.54
1	9m	4	GLN	N-CA-C	-5.59	99.92	108.76
1	9A	21	ASN	N-CA-C	5.59	117.37	111.28
1	9C	45	GLU	CA-C-N	5.59	130.88	120.87
1	9C	45	GLU	C-N-CA	5.59	130.88	120.87
1	9C	84	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	9O	62	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	Y	51	ASP	CA-C-N	5.59	127.77	120.28
1	Y	51	ASP	C-N-CA	5.59	127.77	120.28
1	9V	184	TRP	N-CA-C	5.59	117.38	111.28
1	9W	87	HIS	N-CA-C	5.59	118.18	110.35
1	a1	10	MET	CA-C-O	5.59	128.50	120.51
1	a3	216	THR	N-CA-CB	5.59	119.67	110.39
1	ar	133	TRP	CA-C-N	5.59	127.61	120.56
1	ar	133	TRP	C-N-CA	5.59	127.61	120.56
1	au	72	THR	N-CA-C	5.59	117.37	111.28
1	ay	4	GLN	N-CA-C	5.59	117.45	110.91
1	az	211	LEU	CA-C-N	5.59	128.09	120.54
1	az	211	LEU	C-N-CA	5.59	128.09	120.54
1	aI	50	GLN	N-CA-C	5.59	117.82	111.11
1	aT	6	LEU	CA-C-N	5.59	131.23	123.07
1	aT	6	LEU	C-N-CA	5.59	131.23	123.07
1	aV	58	THR	CA-C-N	5.59	131.08	121.63
1	aV	58	THR	C-N-CA	5.59	131.08	121.63
1	aX	21	ASN	O-C-N	-5.59	116.28	122.09
1	b1	14	ALA	N-CA-C	5.59	118.35	109.96
1	16	190	LEU	N-CA-CB	-5.59	101.67	110.06
1	b9	195	ASN	N-CA-C	-5.59	102.54	109.64
1	bi	75	GLU	O-C-N	-5.59	115.78	122.15
1	bP	74	ASN	CB-CG-ND2	-5.59	108.01	116.40
1	c3	136	LEU	CA-C-N	5.59	126.15	120.00
1	c3	136	LEU	C-N-CA	5.59	126.15	120.00
1	cj	67	GLN	CA-C-O	5.59	126.88	120.90
1	cr	143	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	cz	160	PRO	CA-C-N	5.59	132.22	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cz	160	PRO	C-N-CA	5.59	132.22	121.54
1	cB	139	ASN	O-C-N	5.59	128.05	122.12
1	cK	102	SER	N-CA-C	5.59	118.31	111.82
1	cL	143	ARG	NE-CZ-NH2	5.59	124.23	119.20
1	cO	67	GLN	CA-C-O	-5.59	114.95	120.82
1	cQ	48	THR	CA-C-N	5.59	126.83	119.84
1	cQ	48	THR	C-N-CA	5.59	126.83	119.84
1	d7	193	ASN	CB-CG-OD1	5.59	131.98	120.80
1	dc	198	CYS	O-C-N	-5.59	114.96	122.23
1	dd	54	THR	N-CA-C	5.59	117.38	111.28
1	do	43	LEU	CA-C-O	5.59	126.24	119.31
1	e0	56	LEU	CA-C-O	5.59	126.48	120.55
1	e2	214	MET	CG-SD-CE	-5.59	88.60	100.90
1	e6	167	ARG	CA-C-N	5.59	127.71	120.44
1	e6	167	ARG	C-N-CA	5.59	127.71	120.44
1	e7	125	PRO	CA-C-N	5.59	128.36	120.42
1	e7	125	PRO	C-N-CA	5.59	128.36	120.42
1	e9	2	ILE	CB-CA-C	-5.59	103.55	111.21
1	ee	128	GLU	CA-C-N	5.59	128.36	120.42
1	ee	128	GLU	C-N-CA	5.59	128.36	120.42
1	eg	25	LYS	N-CA-CB	5.59	118.12	110.01
1	et	181	VAL	N-CA-C	-5.59	103.95	111.44
1	ev	135	ILE	N-CA-C	5.59	115.79	110.42
1	eJ	98	GLU	CA-C-N	5.59	125.52	119.76
1	eJ	98	GLU	C-N-CA	5.59	125.52	119.76
1	eT	14	ALA	N-CA-C	5.59	122.71	110.80
1	1u	189	LEU	CA-C-N	5.59	128.09	120.54
1	1u	189	LEU	C-N-CA	5.59	128.09	120.54
1	f5	70	LYS	O-C-N	-5.59	116.19	122.12
1	fc	55	MET	N-CA-C	5.59	118.31	111.82
1	fk	3	VAL	CA-C-N	5.59	128.65	120.71
1	fk	3	VAL	C-N-CA	5.59	128.65	120.71
1	fm	106	GLY	CA-C-O	5.59	126.01	119.19
1	fv	129	ILE	N-CA-C	-5.59	105.05	110.42
1	fD	206	GLY	CA-C-O	-5.59	113.52	121.52
1	fM	124	ILE	CA-C-O	-5.59	112.46	119.95
1	fX	92	GLU	O-C-N	-5.59	115.85	121.27
1	1A	121	ASN	CB-CA-C	-5.59	103.29	111.01
1	f	134	ILE	CB-CA-C	-5.59	104.59	112.14
1	i	81	ASP	CA-C-N	5.59	127.71	120.44
1	i	81	ASP	C-N-CA	5.59	127.71	120.44
1	u	197	ASP	N-CA-C	5.59	117.06	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	29	GLU	N-CA-C	5.59	120.99	113.72
1	K	159	GLU	N-CA-C	5.59	117.72	109.50
1	8	125	PRO	CB-CA-C	5.59	120.78	111.56
1	g9	187	GLU	CB-CA-C	5.59	120.35	110.85
1	gc	120	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	gm	173	ARG	CA-C-N	5.59	128.23	120.29
1	gm	173	ARG	C-N-CA	5.59	128.23	120.29
1	gn	62	HIS	CB-CG-CD2	-5.59	123.94	131.20
1	gG	126	VAL	CA-C-O	-5.59	115.24	121.05
1	gU	76	GLU	N-CA-C	5.59	117.82	111.11
1	h8	167	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
1	ha	175	GLU	CA-C-N	5.59	130.58	122.36
1	ha	175	GLU	C-N-CA	5.59	130.58	122.36
1	hg	127	GLY	CA-C-N	5.59	127.77	120.28
1	hg	127	GLY	C-N-CA	5.59	127.77	120.28
1	hi	7	GLN	N-CA-CB	5.59	119.94	110.49
1	hp	11	VAL	CA-C-N	5.59	128.70	120.82
1	hp	11	VAL	C-N-CA	5.59	128.70	120.82
1	hA	89	GLY	CA-C-N	5.59	126.03	119.99
1	hA	89	GLY	C-N-CA	5.59	126.03	119.99
1	hK	162	ARG	O-C-N	-5.59	116.31	122.07
1	hZ	77	ALA	CA-C-N	5.59	127.71	120.44
1	hZ	77	ALA	C-N-CA	5.59	127.71	120.44
1	i2	70	LYS	CA-C-N	5.59	127.77	120.28
1	i2	70	LYS	C-N-CA	5.59	127.77	120.28
1	i6	65	ALA	N-CA-CB	-5.59	101.90	110.12
1	i6	195	ASN	CB-CA-C	-5.59	100.29	109.46
1	ie	121	ASN	CB-CA-C	5.59	116.07	109.47
1	ii	124	ILE	CB-CA-C	5.59	116.14	110.94
1	ij	139	ASN	CB-CA-C	5.59	120.07	110.79
1	ij	187	GLU	N-CA-C	5.59	117.37	111.28
1	iw	36	VAL	N-CA-C	5.59	116.37	110.72
1	iw	74	ASN	CA-CB-CG	-5.59	107.01	112.60
1	ix	138	LEU	CA-C-N	5.59	127.77	120.28
1	ix	138	LEU	C-N-CA	5.59	127.77	120.28
1	1R	211	LEU	CA-C-N	5.59	128.33	120.28
1	1R	211	LEU	C-N-CA	5.59	128.33	120.28
1	iO	101	GLY	O-C-N	-5.59	116.32	122.24
1	j5	219	GLN	N-CA-C	5.59	117.80	109.25
1	jf	16	SER	CA-C-N	5.59	125.43	119.28
1	jf	16	SER	C-N-CA	5.59	125.43	119.28
1	js	14	ALA	O-C-N	-5.59	116.00	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jy	42	ALA	N-CA-C	5.59	118.14	111.71
1	jF	162	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	jI	54	THR	N-CA-C	5.59	117.37	111.28
1	1Y	5	ASN	OD1-CG-ND2	-5.59	117.01	122.60
1	1Y	88	ALA	CA-C-N	5.59	130.65	121.87
1	1Y	88	ALA	C-N-CA	5.59	130.65	121.87
1	1Y	120	HIS	N-CA-CB	-5.59	101.39	109.83
1	jW	101	GLY	O-C-N	-5.59	116.77	122.19
1	jZ	52	LEU	N-CA-CB	5.59	118.11	110.01
1	k8	105	ALA	CA-C-N	5.59	132.77	121.93
1	k8	105	ALA	C-N-CA	5.59	132.77	121.93
1	kt	172	LEU	O-C-N	-5.59	115.68	122.22
1	ku	91	ILE	N-CA-C	5.59	115.94	108.11
1	kO	185	MET	N-CA-C	5.59	117.37	111.28
1	kT	129	ILE	CA-C-O	-5.59	115.25	121.17
1	kT	171	THR	N-CA-C	5.59	117.05	111.07
1	l3	161	PHE	N-CA-C	5.59	117.37	111.28
1	li	105	ALA	N-CA-CB	-5.59	100.15	110.32
1	ln	199	LYS	CA-C-N	5.59	128.56	120.79
1	ln	199	LYS	C-N-CA	5.59	128.56	120.79
1	lt	90	PRO	CB-CA-C	5.59	118.66	111.56
1	lz	113	GLU	O-C-N	5.59	127.83	122.07
1	lB	211	LEU	N-CA-CB	5.59	118.83	110.22
1	lC	133	TRP	CE2-CD2-CG	-5.59	100.49	107.20
1	lR	12	HIS	CB-CA-C	5.59	119.21	109.65
1	2d	130	TYR	CB-CG-CD1	5.59	129.18	120.80
1	2g	166	ASP	CA-C-O	5.59	126.47	120.55
1	2j	90	PRO	CA-C-O	-5.59	114.97	121.34
1	2j	97	ARG	CD-NE-CZ	5.59	132.23	124.40
1	2o	15	ILE	CA-CB-CG2	5.59	120.00	110.50
1	2x	63	GLN	N-CA-C	5.59	117.37	111.28
1	2E	221	VAL	N-CA-C	5.59	118.36	112.83
1	2Q	162	ARG	CA-C-O	-5.59	114.95	120.82
1	2Y	107	THR	N-CA-C	5.59	117.82	111.11
1	35	139	ASN	CA-C-N	5.59	128.23	120.29
1	35	139	ASN	C-N-CA	5.59	128.23	120.29
1	3b	33	SER	CA-C-O	-5.59	113.66	120.54
1	3b	192	GLN	CA-C-O	-5.59	114.50	120.42
1	3h	51	ASP	CA-C-N	5.59	127.77	120.28
1	3h	51	ASP	C-N-CA	5.59	127.77	120.28
1	3C	11	VAL	O-C-N	-5.59	116.56	123.10
1	3E	30	LYS	CG-CD-CE	5.59	124.15	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	62	HIS	CB-CG-ND1	-5.59	114.31	122.70
1	3I	111	LEU	CA-C-N	5.59	127.77	120.28
1	3I	111	LEU	C-N-CA	5.59	127.77	120.28
1	3J	9	GLN	CA-CB-CG	5.59	125.28	114.10
1	3K	111	LEU	O-C-N	-5.59	116.19	122.12
1	3O	155	GLN	N-CA-C	5.59	122.70	110.80
1	47	35	GLU	CA-C-O	5.59	126.24	119.31
1	49	127	GLY	CA-C-N	5.59	127.71	120.44
1	49	127	GLY	C-N-CA	5.59	127.71	120.44
1	4f	93	PRO	N-CA-C	5.59	119.64	111.03
1	4f	167	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
1	4u	45	GLU	CB-CG-CD	5.59	122.10	112.60
1	4w	63	GLN	CA-C-N	5.59	127.71	120.44
1	4w	63	GLN	C-N-CA	5.59	127.71	120.44
1	4E	24	VAL	O-C-N	-5.59	116.07	121.83
1	4E	39	MET	CG-SD-CE	-5.59	88.60	100.90
1	4J	102	SER	O-C-N	-5.59	114.94	122.43
1	4J	227	LYS	CA-C-O	5.59	126.64	120.71
1	4Q	2	ILE	N-CA-C	5.59	116.29	109.30
1	50	177	ALA	CA-C-N	5.59	128.65	120.71
1	50	177	ALA	C-N-CA	5.59	128.65	120.71
1	58	10	MET	CB-CA-C	5.59	121.29	111.06
1	5j	167	ARG	O-C-N	-5.59	116.19	122.12
1	5l	111	LEU	CA-C-N	5.59	127.71	120.44
1	5l	111	LEU	C-N-CA	5.59	127.71	120.44
1	5v	97	ARG	NE-CZ-NH2	5.59	124.23	119.20
1	5A	154	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	5C	18	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	5I	9	GLN	N-CA-C	5.59	120.21	113.17
1	5L	150	ILE	N-CA-C	5.59	120.97	109.34
1	5M	154	ARG	CA-C-N	5.59	129.41	121.42
1	5M	154	ARG	C-N-CA	5.59	129.41	121.42
1	5P	151	LEU	CA-C-O	5.59	126.67	120.63
1	5T	119	THR	CA-C-N	5.59	130.31	120.87
1	5T	119	THR	C-N-CA	5.59	130.31	120.87
1	60	58	THR	CA-CB-OG1	5.59	117.99	109.60
1	61	48	THR	CA-CB-OG1	5.59	117.98	109.60
1	65	95	GLN	CG-CD-NE2	-5.59	108.02	116.40
1	6g	133	TRP	O-C-N	5.59	128.52	122.15
1	6m	58	THR	N-CA-CB	5.59	118.76	110.49
1	6m	179	GLN	N-CA-C	5.59	117.37	111.28
1	6y	150	ILE	CA-C-O	5.59	125.12	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6P	93	PRO	N-CA-C	5.59	123.98	112.47
1	6T	9	GLN	CA-C-N	5.59	132.22	121.54
1	6T	9	GLN	C-N-CA	5.59	132.22	121.54
1	6X	150	ILE	O-C-N	-5.59	115.69	122.06
1	72	133	TRP	CZ3-CH2-CZ2	-5.59	114.23	121.50
1	77	149	SER	CA-C-N	5.59	129.79	120.62
1	77	149	SER	C-N-CA	5.59	129.79	120.62
1	7h	70	LYS	N-CA-C	5.59	117.05	111.07
1	7i	1	PRO	N-CA-CB	-5.59	96.85	103.00
1	7q	126	VAL	O-C-N	-5.59	116.22	121.87
1	7x	121	ASN	CA-CB-CG	5.59	118.19	112.60
1	7C	202	LEU	CA-C-N	5.59	128.23	120.29
1	7C	202	LEU	C-N-CA	5.59	128.23	120.29
1	7G	141	ILE	N-CA-CB	5.59	117.09	110.55
1	7K	87	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	7Y	46	GLY	O-C-N	-5.59	114.92	122.35
1	83	4	GLN	CA-C-O	-5.59	114.75	121.40
1	8a	47	ALA	N-CA-C	5.59	118.34	110.23
1	8n	135	ILE	CA-C-N	5.59	127.77	120.28
1	8n	135	ILE	C-N-CA	5.59	127.77	120.28
1	8n	186	THR	CA-CB-OG1	5.59	117.98	109.60
1	8M	155	GLN	O-C-N	-5.59	116.11	123.21
1	8P	89	GLY	CA-C-N	5.59	126.83	119.84
1	8P	89	GLY	C-N-CA	5.59	126.83	119.84
1	8P	221	VAL	N-CA-C	-5.59	99.68	108.23
1	97	67	GLN	O-C-N	5.59	128.04	122.12
1	98	139	ASN	CA-CB-CG	-5.59	107.01	112.60
1	9g	161	PHE	N-CA-CB	-5.59	101.61	110.22
1	9D	65	ALA	O-C-N	-5.59	116.19	122.12
1	9E	128	GLU	N-CA-C	5.59	118.14	111.71
1	9E	153	ILE	CA-C-N	5.59	131.74	121.85
1	9E	153	ILE	C-N-CA	5.59	131.74	121.85
1	9G	161	PHE	CA-CB-CG	-5.59	108.21	113.80
1	9Y	41	SER	CA-C-N	5.59	127.77	120.28
1	9Y	41	SER	C-N-CA	5.59	127.77	120.28
1	ac	211	LEU	N-CA-C	5.59	118.14	111.71
1	11	37	ILE	CA-C-N	5.59	125.12	119.19
1	11	37	ILE	C-N-CA	5.59	125.12	119.19
1	11	162	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
1	as	174	ALA	CA-C-N	5.59	129.19	120.75
1	as	174	ALA	C-N-CA	5.59	129.19	120.75
1	ay	120	HIS	CE1-NE2-CD2	-5.59	103.41	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aH	120	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	14	199	LYS	N-CA-C	-5.59	105.72	112.54
1	aT	46	GLY	CA-C-N	5.59	129.84	122.30
1	aT	46	GLY	C-N-CA	5.59	129.84	122.30
1	aY	12	HIS	CA-CB-CG	5.59	119.39	113.80
1	b4	214	MET	O-C-N	-5.59	116.19	122.12
1	bf	156	GLY	CA-C-O	5.59	128.14	122.38
1	c2	121	ASN	CB-CG-ND2	5.59	124.78	116.40
1	cc	160	PRO	N-CA-C	5.59	120.00	111.34
1	cd	197	ASP	N-CA-C	-5.59	105.27	111.36
1	cm	212	GLU	O-C-N	-5.59	116.31	122.07
1	cn	203	LYS	N-CA-C	5.59	118.31	111.82
1	cs	142	VAL	CA-CB-CG2	-5.59	100.90	110.40
1	cu	164	TYR	N-CA-C	5.59	117.05	111.07
1	cu	192	GLN	N-CA-C	5.59	118.30	111.82
1	cz	120	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	cA	115	ILE	CA-C-N	5.59	126.31	119.99
1	cA	115	ILE	C-N-CA	5.59	126.31	119.99
1	cD	64	ALA	CA-C-N	5.59	127.77	120.28
1	cD	64	ALA	C-N-CA	5.59	127.77	120.28
1	cF	166	ASP	CA-C-N	5.59	127.70	120.44
1	cF	166	ASP	C-N-CA	5.59	127.70	120.44
1	cK	95	GLN	N-CA-C	-5.59	102.62	110.50
1	1h	39	MET	CA-C-N	5.59	127.77	120.28
1	1h	39	MET	C-N-CA	5.59	127.77	120.28
1	cV	135	ILE	N-CA-C	5.59	116.99	110.62
1	d1	82	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	d2	27	VAL	CA-C-N	5.59	128.04	120.44
1	d2	27	VAL	C-N-CA	5.59	128.04	120.44
1	d3	172	LEU	O-C-N	-5.59	116.20	122.12
1	da	84	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	df	16	SER	CA-C-N	5.59	125.69	119.32
1	df	16	SER	C-N-CA	5.59	125.69	119.32
1	dh	193	ASN	OD1-CG-ND2	5.59	128.19	122.60
1	dh	212	GLU	N-CA-CB	5.59	118.89	109.78
1	di	74	ASN	CA-CB-CG	-5.59	107.01	112.60
1	dk	70	LYS	CA-C-N	5.59	128.09	120.54
1	dk	70	LYS	C-N-CA	5.59	128.09	120.54
1	dn	101	GLY	CA-C-N	5.59	127.77	120.28
1	dn	101	GLY	C-N-CA	5.59	127.77	120.28
1	1k	120	HIS	N-CA-C	5.59	117.75	110.43
1	dy	77	ALA	O-C-N	-5.59	116.20	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dz	35	GLU	CA-C-N	5.59	128.36	120.42
1	dz	35	GLU	C-N-CA	5.59	128.36	120.42
1	dF	165	VAL	CA-C-N	5.59	127.70	120.44
1	dF	165	VAL	C-N-CA	5.59	127.70	120.44
1	dI	57	ASN	N-CA-CB	-5.59	101.02	110.41
1	dX	57	ASN	CA-C-O	5.59	125.89	119.35
1	e0	84	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	e7	192	GLN	O-C-N	-5.59	115.78	122.15
1	1r	80	TRP	CA-CB-CG	5.59	124.22	113.60
1	eR	107	THR	N-CA-C	5.59	118.22	111.40
1	eV	16	SER	CA-C-N	5.59	126.83	119.84
1	eV	16	SER	C-N-CA	5.59	126.83	119.84
1	fm	205	LEU	N-CA-CB	-5.59	101.91	110.01
1	fn	204	ALA	CB-CA-C	-5.59	101.51	110.79
1	fu	169	TYR	CB-CG-CD1	-5.59	112.41	120.80
1	fA	61	GLY	CA-C-N	5.59	132.21	121.54
1	fA	61	GLY	C-N-CA	5.59	132.21	121.54
1	fD	74	ASN	CA-C-N	5.59	127.77	120.28
1	fD	74	ASN	C-N-CA	5.59	127.77	120.28
1	fM	198	CYS	O-C-N	-5.59	115.68	122.22
1	A	223	GLY	O-C-N	-5.59	116.18	121.77
1	B	221	VAL	CA-C-N	5.59	132.36	121.41
1	B	221	VAL	C-N-CA	5.59	132.36	121.41
1	3	14	ALA	N-CA-C	5.59	118.38	110.50
1	H	23	TRP	CA-C-O	5.59	126.34	120.42
1	ga	21	ASN	CA-C-N	5.59	127.77	120.28
1	ga	21	ASN	C-N-CA	5.59	127.77	120.28
1	1E	90	PRO	CA-C-N	5.59	130.53	123.10
1	1E	90	PRO	C-N-CA	5.59	130.53	123.10
1	gH	225	GLY	CA-C-N	5.59	130.28	121.56
1	gH	225	GLY	C-N-CA	5.59	130.28	121.56
1	gT	17	PRO	N-CA-CB	-5.59	96.89	103.26
1	gX	226	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	h3	100	ARG	N-CA-C	-5.59	102.49	110.59
1	h7	164	TYR	CB-CG-CD1	5.59	129.18	120.80
1	hl	217	ALA	CA-C-N	5.59	130.75	122.82
1	hl	217	ALA	C-N-CA	5.59	130.75	122.82
1	hV	119	THR	CA-C-O	5.59	126.19	119.43
1	i3	28	GLU	N-CA-C	-5.59	104.58	111.40
1	im	66	MET	CB-CA-C	5.59	119.65	110.88
1	1P	63	GLN	O-C-N	-5.59	114.84	122.33
1	1Q	97	ARG	NH1-CZ-NH2	-5.59	112.04	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	197	ASP	CA-C-N	5.59	127.77	120.28
1	iy	197	ASP	C-N-CA	5.59	127.77	120.28
1	iA	219	GLN	CB-CA-C	5.59	121.54	110.42
1	iH	16	SER	CA-C-O	-5.59	114.22	120.25
1	iJ	151	LEU	N-CA-C	5.59	117.17	111.14
1	iU	5	ASN	CA-C-O	5.59	127.42	121.16
1	j0	176	GLN	O-C-N	5.59	128.95	122.19
1	j4	158	LYS	CA-C-O	5.59	127.52	120.65
1	j5	77	ALA	N-CA-C	5.59	117.05	111.07
1	jn	165	VAL	CA-C-N	5.59	128.08	120.54
1	jn	165	VAL	C-N-CA	5.59	128.08	120.54
1	js	70	LYS	N-CA-C	5.59	117.37	111.28
1	jD	108	THR	CA-C-N	5.59	131.32	122.94
1	jD	108	THR	C-N-CA	5.59	131.32	122.94
1	jO	180	GLU	N-CA-C	5.59	117.37	111.28
1	jW	216	THR	CA-CB-CG2	-5.59	101.00	110.50
1	k1	95	GLN	CA-C-N	5.59	132.21	121.54
1	k1	95	GLN	C-N-CA	5.59	132.21	121.54
1	kp	4	GLN	N-CA-C	5.59	118.38	110.50
1	ky	197	ASP	CA-CB-CG	-5.59	107.01	112.60
1	kV	53	ASN	CA-C-N	5.59	129.20	120.82
1	kV	53	ASN	C-N-CA	5.59	129.20	120.82
1	l6	65	ALA	CA-C-O	5.59	126.69	120.82
1	l8	5	ASN	O-C-N	-5.59	116.87	123.41
1	ln	190	LEU	CB-CA-C	5.59	119.42	110.09
1	lt	194	ALA	CA-C-N	5.59	128.16	120.39
1	lt	194	ALA	C-N-CA	5.59	128.16	120.39
1	2a	154	ARG	N-CA-C	5.59	117.47	109.14
1	2k	35	GLU	CA-C-O	-5.59	112.52	120.51
1	2x	139	ASN	CA-CB-CG	5.59	118.19	112.60
1	2F	214	MET	O-C-N	-5.59	116.20	122.12
1	2L	185	MET	CA-C-O	5.59	126.47	120.55
1	2R	41	SER	CA-C-N	5.59	127.77	120.28
1	2R	41	SER	C-N-CA	5.59	127.77	120.28
1	2R	54	THR	N-CA-CB	5.59	118.11	110.01
1	2T	29	GLU	O-C-N	-5.59	114.07	122.28
1	2Z	175	GLU	O-C-N	-5.59	115.58	123.01
1	3m	148	THR	O-C-N	-5.59	115.60	122.25
1	3m	160	PRO	CB-CA-C	5.59	118.38	111.23
1	3T	225	GLY	CA-C-N	5.59	128.80	120.87
1	3T	225	GLY	C-N-CA	5.59	128.80	120.87
1	4a	98	GLU	O-C-N	-5.59	115.98	121.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4c	182	LYS	N-CA-C	5.59	117.81	111.11
1	4l	190	LEU	N-CA-C	5.59	119.73	113.02
1	4q	173	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	4r	197	ASP	CA-C-O	5.59	126.47	120.55
1	4D	25	LYS	N-CA-CB	-5.59	101.89	110.16
1	4H	166	ASP	CA-C-O	5.59	126.69	120.82
1	4M	21	ASN	CA-C-O	5.59	126.38	119.79
1	55	29	GLU	N-CA-C	5.59	117.17	111.14
1	5e	195	ASN	O-C-N	5.59	127.52	121.60
1	5E	121	ASN	CB-CA-C	-5.59	101.88	109.42
1	5L	100	ARG	CD-NE-CZ	5.59	132.22	124.40
1	5X	68	MET	N-CA-C	5.59	117.37	111.28
1	6h	9	GLN	CA-C-O	5.59	126.47	120.32
1	6o	172	LEU	CA-C-N	5.59	127.77	120.28
1	6o	172	LEU	C-N-CA	5.59	127.77	120.28
1	6D	146	SER	O-C-N	-5.59	116.45	121.31
1	7b	224	PRO	N-CA-C	5.59	123.98	112.47
1	7A	191	VAL	CA-C-N	5.59	128.80	120.31
1	7A	191	VAL	C-N-CA	5.59	128.80	120.31
1	7J	169	TYR	CA-C-N	5.59	128.04	120.44
1	7J	169	TYR	C-N-CA	5.59	128.04	120.44
1	81	190	LEU	CB-CA-C	-5.59	101.51	110.79
1	8e	67	GLN	O-C-N	5.59	128.04	122.12
1	8l	69	LEU	N-CA-CB	-5.59	101.68	110.06
1	8o	140	LYS	N-CA-C	5.59	117.81	111.11
1	8X	74	ASN	CA-CB-CG	-5.59	107.01	112.60
1	9d	108	THR	CA-C-O	5.59	126.04	119.28
1	9g	226	HIS	O-C-N	-5.59	116.06	122.93
1	9D	186	THR	O-C-N	-5.59	115.40	122.27
1	9H	151	LEU	CA-C-N	5.59	127.77	120.28
1	9H	151	LEU	C-N-CA	5.59	127.77	120.28
1	a9	176	GLN	CA-C-N	5.59	128.65	120.71
1	a9	176	GLN	C-N-CA	5.59	128.65	120.71
1	11	134	ILE	CA-C-N	5.59	127.81	120.60
1	11	134	ILE	C-N-CA	5.59	127.81	120.60
1	aD	152	ASP	N-CA-CB	5.59	118.72	110.56
1	15	55	MET	CA-C-N	5.59	128.22	120.29
1	15	55	MET	C-N-CA	5.59	128.22	120.29
1	bx	32	PHE	CA-CB-CG	-5.59	108.21	113.80
1	bH	128	GLU	N-CA-CB	5.59	118.43	110.16
1	bX	7	GLN	OE1-CD-NE2	5.59	128.19	122.60
1	cu	189	LEU	CA-C-N	5.59	127.77	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cu	189	LEU	C-N-CA	5.59	127.77	120.28
1	cA	224	PRO	CA-C-N	5.59	126.31	119.99
1	cA	224	PRO	C-N-CA	5.59	126.31	119.99
1	cE	108	THR	OG1-CB-CG2	-5.59	98.12	109.30
1	1j	33	SER	CB-CA-C	-5.59	100.48	109.37
1	dL	84	HIS	CG-CD2-NE2	5.59	112.79	107.20
1	1n	129	ILE	N-CA-C	5.59	115.78	110.42
1	dU	179	GLN	CB-CA-C	5.59	120.35	110.85
1	ep	48	THR	OG1-CB-CG2	-5.59	98.12	109.30
1	eE	211	LEU	O-C-N	-5.59	116.31	122.07
1	eI	84	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	eS	81	ASP	CA-C-N	5.59	128.04	120.44
1	eS	81	ASP	C-N-CA	5.59	128.04	120.44
1	eY	32	PHE	CA-CB-CG	5.59	119.39	113.80
1	1v	212	GLU	CA-CB-CG	5.59	125.28	114.10
1	fe	143	ARG	O-C-N	-5.59	114.94	122.43
1	fz	30	LYS	N-CA-C	-5.59	105.81	113.30
1	1A	141	ILE	CA-C-N	5.59	127.81	120.60
1	1A	141	ILE	C-N-CA	5.59	127.81	120.60
1	j	163	ASP	O-C-N	-5.59	116.06	122.09
1	k	229	ARG	N-CA-C	5.59	119.03	110.20
1	l	218	CYS	N-CA-C	5.59	118.55	110.28
1	C	33	SER	CA-C-O	-5.59	113.67	120.54
1	7	45	GLU	CB-CG-CD	5.59	122.10	112.60
1	gg	120	HIS	O-C-N	-5.59	116.42	123.12
1	gj	20	LEU	CB-CA-C	-5.59	101.52	110.79
1	gm	129	ILE	CA-C-O	5.59	127.25	121.05
1	gq	91	ILE	N-CA-C	5.59	116.52	110.21
1	gH	17	PRO	CA-C-N	5.59	128.80	120.31
1	gH	17	PRO	C-N-CA	5.59	128.80	120.31
1	gW	66	MET	N-CA-C	5.59	117.37	111.28
1	gW	98	GLU	O-C-N	-5.59	115.55	121.30
1	gY	155	GLN	CA-C-N	5.59	130.64	121.87
1	gY	155	GLN	C-N-CA	5.59	130.64	121.87
1	h1	167	ARG	CA-C-N	5.59	127.70	120.44
1	h1	167	ARG	C-N-CA	5.59	127.70	120.44
1	hc	133	TRP	CA-C-N	5.59	127.60	120.56
1	hc	133	TRP	C-N-CA	5.59	127.60	120.56
1	hi	72	THR	CB-CA-C	-5.59	101.52	110.79
1	hm	162	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	hp	129	ILE	CA-C-N	5.59	128.22	120.29
1	hp	129	ILE	C-N-CA	5.59	128.22	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hM	64	ALA	O-C-N	5.59	127.90	122.09
1	hN	225	GLY	O-C-N	-5.59	117.02	122.77
1	i0	190	LEU	O-C-N	-5.59	115.68	122.22
1	i3	107	THR	N-CA-C	5.59	118.30	111.82
1	ic	10	MET	O-C-N	-5.59	116.72	123.03
1	1O	18	ARG	CA-C-N	5.59	127.77	120.28
1	1O	18	ARG	C-N-CA	5.59	127.77	120.28
1	if	198	CYS	N-CA-C	5.59	117.37	111.28
1	ih	190	LEU	N-CA-CB	-5.59	101.62	110.22
1	ik	96	MET	CA-C-N	5.59	129.19	120.75
1	ik	96	MET	C-N-CA	5.59	129.19	120.75
1	iw	215	MET	CA-C-N	5.59	127.70	120.44
1	iw	215	MET	C-N-CA	5.59	127.70	120.44
1	iD	206	GLY	CA-C-O	-5.59	113.53	121.52
1	iE	165	VAL	CA-CB-CG2	5.59	119.89	110.40
1	iG	54	THR	CA-C-N	5.59	128.08	120.54
1	iG	54	THR	C-N-CA	5.59	128.08	120.54
1	iN	184	TRP	CA-C-N	5.59	127.77	120.28
1	iN	184	TRP	C-N-CA	5.59	127.77	120.28
1	iS	175	GLU	N-CA-C	-5.59	101.18	110.17
1	j1	175	GLU	CA-CB-CG	5.59	125.27	114.10
1	jc	132	ARG	O-C-N	-5.59	115.78	122.15
1	jf	218	CYS	CA-C-O	-5.59	115.11	121.65
1	jl	42	ALA	N-CA-C	5.59	117.45	111.36
1	jt	53	ASN	CA-C-N	5.59	127.77	120.28
1	jt	53	ASN	C-N-CA	5.59	127.77	120.28
1	jw	65	ALA	O-C-N	-5.59	116.28	122.09
1	jC	90	PRO	N-CA-C	5.59	119.98	111.15
1	jR	44	SER	CB-CA-C	-5.59	101.97	111.02
1	jR	215	MET	CG-SD-CE	5.59	113.19	100.90
1	k8	185	MET	CA-C-N	5.59	128.22	120.29
1	k8	185	MET	C-N-CA	5.59	128.22	120.29
1	k9	158	LYS	CB-CA-C	-5.59	100.73	110.17
1	k9	222	GLY	CA-C-O	5.59	126.08	122.23
1	kg	63	GLN	OE1-CD-NE2	-5.59	117.01	122.60
1	kv	67	GLN	CA-C-N	5.59	127.77	120.28
1	kv	67	GLN	C-N-CA	5.59	127.77	120.28
1	kx	30	LYS	N-CA-CB	-5.59	102.31	110.47
1	ky	155	GLN	CB-CG-CD	5.59	122.10	112.60
1	kK	98	GLU	O-C-N	5.59	126.49	121.35
1	kR	8	GLY	CA-C-O	5.59	125.49	119.06
1	kS	40	PHE	CA-C-N	5.59	127.77	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kS	40	PHE	C-N-CA	5.59	127.77	120.28
1	kV	202	LEU	CA-C-N	5.59	127.70	120.44
1	kV	202	LEU	C-N-CA	5.59	127.70	120.44
1	26	72	THR	CA-C-N	5.59	127.60	120.56
1	26	72	THR	C-N-CA	5.59	127.60	120.56
1	lo	21	ASN	OD1-CG-ND2	5.59	128.19	122.60
1	lp	229	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	lG	22	ALA	O-C-N	-5.59	115.78	122.15
1	lQ	86	VAL	O-C-N	-5.59	115.63	122.61
1	2b	102	SER	N-CA-C	5.59	118.30	111.82
1	2h	97	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	2h	166	ASP	O-C-N	-5.59	116.20	122.12
1	2i	87	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	2r	148	THR	OG1-CB-CG2	-5.59	98.12	109.30
1	2w	35	GLU	CB-CG-CD	-5.59	103.10	112.60
1	2D	192	GLN	OE1-CD-NE2	-5.59	117.01	122.60
1	2N	89	GLY	CA-C-O	-5.59	113.53	121.52
1	2T	104	ILE	CB-CA-C	-5.59	104.82	111.97
1	2U	81	ASP	N-CA-C	5.59	118.14	111.71
1	37	132	ARG	CA-C-N	5.59	128.22	120.29
1	37	132	ARG	C-N-CA	5.59	128.22	120.29
1	3i	70	LYS	O-C-N	-5.59	116.20	122.12
1	3t	172	LEU	N-CA-C	5.59	118.30	111.82
1	3u	90	PRO	N-CA-CB	-5.59	99.49	103.23
1	3y	87	HIS	N-CA-C	5.59	119.16	110.17
1	3K	133	TRP	CA-C-N	5.59	127.71	120.56
1	3K	133	TRP	C-N-CA	5.59	127.71	120.56
1	3N	159	GLU	O-C-N	-5.59	116.79	121.54
1	3Q	100	ARG	N-CA-C	-5.59	101.93	110.14
1	4c	48	THR	O-C-N	-5.59	116.60	121.35
1	4g	190	LEU	N-CA-C	5.59	117.37	111.28
1	4i	161	PHE	O-C-N	-5.59	115.16	122.59
1	4i	201	ILE	O-C-N	-5.59	115.59	122.57
1	4m	106	GLY	N-CA-C	-5.59	106.79	115.67
1	4L	114	GLN	CA-C-N	5.59	128.12	120.46
1	4L	114	GLN	C-N-CA	5.59	128.12	120.46
1	4L	195	ASN	CA-C-O	-5.59	112.50	120.16
1	4U	67	GLN	CA-C-O	-5.59	114.50	120.42
1	4W	193	ASN	CA-C-O	5.59	126.46	119.59
1	52	215	MET	CG-SD-CE	-5.59	88.61	100.90
1	59	4	GLN	CB-CA-C	5.59	118.97	111.82
1	59	149	SER	O-C-N	-5.59	116.87	123.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5k	116	GLY	CA-C-N	5.59	127.70	120.44
1	5k	116	GLY	C-N-CA	5.59	127.70	120.44
1	5v	115	ILE	CA-C-N	5.59	126.18	119.98
1	5v	115	ILE	C-N-CA	5.59	126.18	119.98
1	5I	70	LYS	N-CA-C	5.59	117.05	111.07
1	5S	181	VAL	CA-C-N	5.59	127.70	120.44
1	5S	181	VAL	C-N-CA	5.59	127.70	120.44
1	5X	167	ARG	CA-C-O	5.59	126.47	120.55
1	61	215	MET	CG-SD-CE	-5.59	88.61	100.90
1	66	146	SER	CA-C-N	5.59	126.82	119.84
1	66	146	SER	C-N-CA	5.59	126.82	119.84
1	6e	217	ALA	N-CA-C	5.59	118.42	110.10
1	6j	108	THR	CA-C-O	-5.59	112.59	119.18
1	6o	107	THR	CA-CB-OG1	5.59	117.98	109.60
1	6C	143	ARG	CA-C-N	5.59	127.77	120.28
1	6C	143	ARG	C-N-CA	5.59	127.77	120.28
1	6E	225	GLY	CA-C-N	-5.59	115.08	122.85
1	6E	225	GLY	C-N-CA	-5.59	115.08	122.85
1	6Q	133	TRP	CE3-CZ3-CH2	5.59	128.36	121.10
1	7m	59	VAL	N-CA-C	5.59	116.23	110.36
1	7E	84	HIS	CA-C-O	-5.59	114.45	119.59
1	83	163	ASP	N-CA-C	5.59	117.37	111.28
1	8c	92	GLU	N-CA-C	5.59	117.61	109.84
1	8h	108	THR	N-CA-C	5.59	118.14	111.71
1	8D	143	ARG	NE-CZ-NH1	5.59	127.09	121.50
1	8M	98	GLU	CB-CA-C	5.59	118.89	109.67
1	8N	197	ASP	CA-CB-CG	5.59	118.19	112.60
1	8O	202	LEU	CA-C-N	5.59	128.22	120.29
1	8O	202	LEU	C-N-CA	5.59	128.22	120.29
1	8Q	139	ASN	CA-C-O	5.59	126.47	120.55
1	8V	154	ARG	CA-C-N	5.59	129.04	121.05
1	8V	154	ARG	C-N-CA	5.59	129.04	121.05
1	8X	219	GLN	N-CA-CB	5.59	118.44	110.06
1	9b	202	LEU	N-CA-C	5.59	119.19	112.38
1	9j	161	PHE	CA-CB-CG	5.59	119.39	113.80
1	9x	205	LEU	N-CA-CB	-5.59	101.91	110.01
1	9z	66	MET	N-CA-CB	5.59	118.11	110.01
1	9D	27	VAL	N-CA-CB	5.59	118.14	110.54
1	9G	9	GLN	OE1-CD-NE2	5.59	128.19	122.60
1	9S	206	GLY	O-C-N	5.59	127.36	121.77
1	aa	89	GLY	N-CA-C	5.59	123.74	112.34
1	ac	27	VAL	N-CA-C	5.59	118.03	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ad	44	SER	N-CA-C	5.59	119.09	112.72
1	as	143	ARG	O-C-N	-5.59	116.20	122.12
1	au	84	HIS	O-C-N	-5.59	114.99	121.47
1	aw	37	ILE	O-C-N	-5.59	114.73	121.10
1	ay	29	GLU	N-CA-CB	5.59	118.40	110.13
1	ay	33	SER	N-CA-C	5.59	122.15	109.81
1	aF	84	HIS	CA-C-O	-5.59	114.60	120.02
1	aU	179	GLN	CA-C-N	5.59	129.20	120.82
1	aU	179	GLN	C-N-CA	5.59	129.20	120.82
1	aX	134	ILE	N-CA-CB	5.59	117.09	110.55
1	16	78	ALA	N-CA-C	5.59	117.45	111.36
1	b8	67	GLN	CA-C-O	-5.59	114.60	120.63
1	b9	23	TRP	N-CA-C	5.59	117.05	111.07
1	bo	193	ASN	OD1-CG-ND2	-5.59	117.01	122.60
1	bw	128	GLU	O-C-N	-5.59	116.32	122.07
1	by	122	PRO	N-CA-CB	5.59	108.74	102.60
1	bz	203	LYS	N-CA-C	5.59	118.14	111.71
1	bD	197	ASP	CA-C-N	5.59	127.70	120.44
1	bD	197	ASP	C-N-CA	5.59	127.70	120.44
1	bL	18	ARG	NE-CZ-NH2	-5.59	114.17	119.20
1	bM	225	GLY	CA-C-O	5.59	126.07	120.09
1	c2	207	PRO	CA-C-O	-5.59	115.23	121.32
1	c8	12	HIS	O-C-N	-5.59	116.68	123.16
1	ck	159	GLU	CB-CA-C	5.59	118.26	109.27
1	cB	148	THR	CA-CB-OG1	5.59	117.98	109.60
1	cC	141	ILE	N-CA-C	5.59	118.07	111.09
1	cJ	43	LEU	CA-C-N	-5.59	113.72	122.49
1	cJ	43	LEU	C-N-CA	-5.59	113.72	122.49
1	cL	112	GLN	CA-C-O	-5.59	113.79	120.10
1	cY	170	LYS	CA-C-N	5.59	127.70	120.44
1	cY	170	LYS	C-N-CA	5.59	127.70	120.44
1	d4	229	ARG	N-CA-C	5.59	117.80	109.25
1	dc	167	ARG	CA-C-N	5.59	128.08	120.54
1	dc	167	ARG	C-N-CA	5.59	128.08	120.54
1	dk	69	LEU	N-CA-C	5.59	117.05	111.07
1	dz	37	ILE	N-CA-CB	5.59	114.81	110.45
1	dO	126	VAL	N-CA-C	5.59	116.32	110.62
1	e0	17	PRO	N-CA-C	-5.59	106.73	114.27
1	e8	73	ILE	N-CA-C	5.59	116.36	110.72
1	e8	141	ILE	CA-C-O	5.59	126.34	119.58
1	ei	82	ARG	N-CA-C	5.59	118.09	111.33
1	en	12	HIS	CA-CB-CG	5.59	119.39	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	er	128	GLU	N-CA-C	5.59	117.45	111.36
1	eP	129	ILE	CA-CB-CG1	5.59	119.90	110.40
1	eQ	68	MET	CA-C-N	5.59	127.77	120.28
1	eQ	68	MET	C-N-CA	5.59	127.77	120.28
1	eV	92	GLU	CA-C-N	5.59	125.59	119.89
1	eV	92	GLU	C-N-CA	5.59	125.59	119.89
1	f1	174	ALA	CB-CA-C	5.59	119.65	110.88
1	f7	146	SER	CA-C-N	5.59	126.82	119.84
1	f7	146	SER	C-N-CA	5.59	126.82	119.84
1	fg	231	LEU	CD1-CG-CD2	-5.59	98.51	110.80
1	fj	84	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
1	fs	74	ASN	CA-CB-CG	5.59	118.19	112.60
1	fx	130	TYR	CB-CG-CD1	-5.59	112.42	120.80
1	fC	103	ASP	N-CA-C	-5.59	105.58	112.90
1	fH	21	ASN	CA-CB-CG	5.59	118.19	112.60
1	fV	177	ALA	CA-C-N	5.59	132.21	121.54
1	fV	177	ALA	C-N-CA	5.59	132.21	121.54
1	fY	219	GLN	CA-C-O	-5.59	114.39	120.81
1	g7	168	PHE	N-CA-CB	-5.59	101.91	110.12
1	1B	152	ASP	CA-C-O	-5.59	113.55	119.97
1	d	22	ALA	CA-C-N	5.59	128.22	120.29
1	d	22	ALA	C-N-CA	5.59	128.22	120.29
1	o	103	ASP	CA-C-N	5.59	127.60	120.56
1	o	103	ASP	C-N-CA	5.59	127.60	120.56
1	w	87	HIS	ND1-CE1-NE2	5.59	113.99	108.40
1	w	146	SER	CA-C-O	-5.59	114.22	120.25
1	V	56	LEU	N-CA-C	5.59	117.37	111.28
1	1C	26	VAL	CA-C-N	5.58	127.71	120.56
1	1C	26	VAL	C-N-CA	5.58	127.71	120.56
1	gy	72	THR	N-CA-C	-5.58	105.19	111.28
1	gA	168	PHE	CB-CA-C	5.58	119.65	110.88
1	gN	95	GLN	CA-C-O	5.58	127.42	121.05
1	gR	152	ASP	N-CA-C	-5.58	105.82	113.30
1	gV	64	ALA	N-CA-CB	5.58	118.33	110.12
1	gZ	202	LEU	CA-C-O	5.58	126.47	120.55
1	ho	31	ALA	CB-CA-C	-5.58	109.14	115.79
1	hr	132	ARG	CG-CD-NE	-5.58	99.71	112.00
1	hz	12	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	1K	191	VAL	CA-C-N	5.58	127.70	120.44
1	1K	191	VAL	C-N-CA	5.58	127.70	120.44
1	hH	173	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	ii	137	GLY	N-CA-C	5.58	119.40	112.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	14	ALA	O-C-N	-5.58	116.42	123.01
1	jm	20	LEU	N-CA-C	5.58	117.37	111.28
1	jm	78	ALA	CA-C-O	5.58	126.68	120.82
1	jP	132	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	k3	35	GLU	CA-C-N	5.58	128.11	120.46
1	k3	35	GLU	C-N-CA	5.58	128.11	120.46
1	k4	150	ILE	O-C-N	-5.58	115.93	122.07
1	kr	55	MET	CA-C-N	5.58	127.76	120.28
1	kr	55	MET	C-N-CA	5.58	127.76	120.28
1	22	23	TRP	CE3-CZ3-CH2	-5.58	113.84	121.10
1	kx	112	GLN	N-CA-C	5.58	117.37	111.28
1	kx	140	LYS	N-CA-C	5.58	117.45	111.36
1	23	13	GLN	CG-CD-NE2	5.58	124.78	116.40
1	28	92	GLU	O-C-N	-5.58	116.17	121.20
1	lz	214	MET	N-CA-C	5.58	117.05	111.07
1	lF	108	THR	N-CA-C	-5.58	106.51	113.38
1	2p	41	SER	N-CA-CB	5.58	118.11	110.01
1	2J	64	ALA	CA-C-N	5.58	127.76	120.28
1	2J	64	ALA	C-N-CA	5.58	127.76	120.28
1	36	178	SER	O-C-N	-5.58	115.67	122.82
1	37	48	THR	N-CA-C	-5.58	103.71	110.13
1	3a	71	GLU	N-CA-C	5.58	117.05	111.07
1	3u	6	LEU	CA-C-O	5.58	125.77	119.18
1	3P	98	GLU	O-C-N	-5.58	115.50	121.42
1	4h	166	ASP	CA-CB-CG	-5.58	107.02	112.60
1	4k	103	ASP	CA-C-N	5.58	128.11	120.46
1	4k	103	ASP	C-N-CA	5.58	128.11	120.46
1	4G	156	GLY	CA-C-N	5.58	125.25	119.05
1	4G	156	GLY	C-N-CA	5.58	125.25	119.05
1	4M	10	MET	N-CA-C	5.58	118.45	110.24
1	4S	187	GLU	N-CA-C	5.58	119.81	112.89
1	51	48	THR	N-CA-CB	5.58	117.49	109.78
1	5i	154	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	5L	69	LEU	CA-C-N	5.58	127.70	120.44
1	5L	69	LEU	C-N-CA	5.58	127.70	120.44
1	5V	107	THR	CA-CB-OG1	5.58	117.98	109.60
1	5X	40	PHE	CA-CB-CG	5.58	119.39	113.80
1	69	57	ASN	CB-CA-C	5.58	120.06	110.79
1	6p	25	LYS	CA-C-N	5.58	127.80	120.60
1	6p	25	LYS	C-N-CA	5.58	127.80	120.60
1	6s	70	LYS	N-CA-C	5.58	117.37	111.28
1	6w	84	HIS	N-CA-C	5.58	118.25	108.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6y	24	VAL	N-CA-C	5.58	116.32	110.62
1	6y	96	MET	N-CA-C	5.58	118.28	109.96
1	6J	143	ARG	NE-CZ-NH2	-5.58	114.17	119.20
1	71	12	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	7x	74	ASN	CA-CB-CG	-5.58	107.02	112.60
1	7Q	160	PRO	CB-CA-C	5.58	118.33	111.12
1	8u	72	THR	CA-CB-CG2	5.58	119.99	110.50
1	8T	23	TRP	N-CA-CB	5.58	118.11	110.01
1	9c	135	ILE	N-CA-C	5.58	116.99	110.62
1	9E	5	ASN	N-CA-C	-5.58	106.05	112.92
1	Y	112	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	ac	142	VAL	CA-C-N	5.58	127.76	120.28
1	ac	142	VAL	C-N-CA	5.58	127.76	120.28
1	ar	96	MET	CA-C-O	5.58	126.85	120.54
1	bg	2	ILE	O-C-N	-5.58	116.95	122.76
1	bG	72	THR	CA-C-N	5.58	128.11	120.46
1	bG	72	THR	C-N-CA	5.58	128.11	120.46
1	cd	62	HIS	CA-C-N	5.58	128.32	120.28
1	cd	62	HIS	C-N-CA	5.58	128.32	120.28
1	cg	141	ILE	CA-C-N	5.58	128.11	120.46
1	cg	141	ILE	C-N-CA	5.58	128.11	120.46
1	cJ	57	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	cP	195	ASN	CA-CB-CG	5.58	118.19	112.60
1	cT	154	ARG	NH1-CZ-NH2	-5.58	112.04	119.30
1	cX	1	PRO	N-CA-CB	5.58	109.14	103.00
1	cY	166	ASP	N-CA-CB	-5.58	101.91	110.01
1	d6	58	THR	CA-CB-OG1	5.58	117.98	109.60
1	d9	202	LEU	N-CA-CB	-5.58	101.62	110.22
1	dv	221	VAL	O-C-N	-5.58	116.24	122.66
1	dL	153	ILE	CB-CA-C	5.58	119.34	112.02
1	dM	192	GLN	O-C-N	-5.58	116.20	122.12
1	e0	5	ASN	CA-CB-CG	-5.58	107.02	112.60
1	e8	48	THR	CA-C-N	5.58	126.82	119.84
1	e8	48	THR	C-N-CA	5.58	126.82	119.84
1	ef	47	ALA	N-CA-C	5.58	118.34	109.96
1	ej	91	ILE	N-CA-C	5.58	120.96	109.34
1	et	160	PRO	N-CA-CB	5.58	108.17	103.25
1	eG	67	GLN	CA-C-N	5.58	127.76	120.28
1	eG	67	GLN	C-N-CA	5.58	127.76	120.28
1	eV	226	HIS	N-CA-CB	5.58	118.18	109.97
1	fe	168	PHE	N-CA-C	5.58	117.05	111.07
1	fn	41	SER	CA-C-N	5.58	127.70	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fn	41	SER	C-N-CA	5.58	127.70	120.44
1	1x	125	PRO	CA-C-O	-5.58	115.16	121.97
1	fO	12	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	fU	185	MET	CA-C-N	5.58	127.70	120.44
1	fU	185	MET	C-N-CA	5.58	127.70	120.44
1	fZ	5	ASN	O-C-N	-5.58	116.20	122.12
1	F	19	THR	CA-C-N	5.58	127.76	120.28
1	F	19	THR	C-N-CA	5.58	127.76	120.28
1	gs	67	GLN	CA-C-N	5.58	128.22	120.29
1	gs	67	GLN	C-N-CA	5.58	128.22	120.29
1	gs	139	ASN	CA-CB-CG	-5.58	107.02	112.60
1	gu	40	PHE	CA-CB-CG	-5.58	108.22	113.80
1	gv	88	ALA	O-C-N	-5.58	115.23	122.77
1	gv	207	PRO	CA-C-N	5.58	128.80	120.31
1	gv	207	PRO	C-N-CA	5.58	128.80	120.31
1	gZ	107	THR	O-C-N	-5.58	116.20	122.12
1	ha	186	THR	OG1-CB-CG2	-5.58	98.13	109.30
1	hs	159	GLU	N-CA-C	5.58	119.55	109.44
1	hu	53	ASN	O-C-N	-5.58	116.20	122.12
1	hu	195	ASN	OD1-CG-ND2	5.58	128.18	122.60
1	hB	110	THR	N-CA-C	5.58	118.74	110.48
1	hH	176	GLN	CA-C-N	5.58	128.80	120.87
1	hH	176	GLN	C-N-CA	5.58	128.80	120.87
1	hR	14	ALA	N-CA-C	5.58	118.11	110.24
1	hR	21	ASN	O-C-N	-5.58	115.78	122.15
1	hV	168	PHE	N-CA-C	5.58	117.81	111.11
1	1O	84	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	il	12	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	iq	137	GLY	O-C-N	-5.58	116.77	122.19
1	ir	183	ASN	CA-C-O	5.58	126.87	120.90
1	iD	73	ILE	O-C-N	-5.58	116.08	121.83
1	iG	121	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	iL	100	ARG	NE-CZ-NH2	-5.58	114.17	119.20
1	iM	161	PHE	CB-CA-C	5.58	120.06	110.79
1	iN	34	PRO	CA-C-N	5.58	130.04	120.72
1	iN	34	PRO	C-N-CA	5.58	130.04	120.72
1	1T	148	THR	CA-C-O	-5.58	115.22	121.81
1	je	42	ALA	CA-C-N	5.58	130.04	120.72
1	je	42	ALA	C-N-CA	5.58	130.04	120.72
1	ji	202	LEU	N-CA-C	5.58	117.37	111.28
1	1W	184	TRP	N-CA-C	-5.58	106.31	113.23
1	jw	4	GLN	OE1-CD-NE2	-5.58	117.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jx	25	LYS	CA-CB-CG	5.58	125.27	114.10
1	jF	84	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	1X	63	GLN	N-CA-C	5.58	117.37	111.28
1	jG	78	ALA	CA-C-N	5.58	127.76	120.28
1	jG	78	ALA	C-N-CA	5.58	127.76	120.28
1	jJ	211	LEU	CA-C-N	5.58	127.76	120.28
1	jJ	211	LEU	C-N-CA	5.58	127.76	120.28
1	1Z	197	ASP	CA-CB-CG	5.58	118.18	112.60
1	k6	50	GLN	O-C-N	-5.58	116.32	122.07
1	k7	95	GLN	CA-CB-CG	5.58	125.27	114.10
1	ka	129	ILE	CA-CB-CG1	5.58	119.89	110.40
1	kD	169	TYR	N-CA-C	5.58	118.30	111.82
1	23	140	LYS	CA-C-O	5.58	126.47	120.55
1	kE	41	SER	CA-C-O	5.58	126.68	120.82
1	kM	40	PHE	N-CA-CB	-5.58	101.62	109.94
1	kN	100	ARG	CB-CA-C	5.58	121.96	110.40
1	kQ	39	MET	CA-C-O	5.58	126.68	120.82
1	l9	183	ASN	CB-CA-C	-5.58	101.36	110.85
1	lg	207	PRO	CA-C-N	5.58	130.29	122.36
1	lg	207	PRO	C-N-CA	5.58	130.29	122.36
1	ls	24	VAL	N-CA-C	5.58	116.31	110.62
1	lt	17	PRO	CA-C-N	5.58	127.76	120.28
1	lt	17	PRO	C-N-CA	5.58	127.76	120.28
1	lt	32	PHE	N-CA-C	5.58	119.04	111.17
1	lw	79	GLU	O-C-N	5.58	128.12	122.09
1	lD	68	MET	CG-SD-CE	-5.58	88.62	100.90
1	lF	173	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	lO	128	GLU	CA-C-N	5.58	128.11	120.46
1	lO	128	GLU	C-N-CA	5.58	128.11	120.46
1	2b	38	PRO	CA-C-N	5.58	128.08	120.54
1	2b	38	PRO	C-N-CA	5.58	128.08	120.54
1	2k	25	LYS	N-CA-C	5.58	117.37	111.28
1	2q	59	VAL	O-C-N	-5.58	116.44	121.91
1	2t	187	GLU	CA-C-N	5.58	127.70	120.44
1	2t	187	GLU	C-N-CA	5.58	127.70	120.44
1	2v	211	LEU	CA-C-O	5.58	126.47	120.55
1	2z	24	VAL	O-C-N	-5.58	116.23	121.87
1	2C	137	GLY	CA-C-N	5.58	127.76	120.28
1	2C	137	GLY	C-N-CA	5.58	127.76	120.28
1	2C	230	VAL	N-CA-CB	5.58	120.65	111.38
1	2S	219	GLN	CA-C-N	5.58	129.52	121.54
1	2S	219	GLN	C-N-CA	5.58	129.52	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	31	30	LYS	CA-C-N	5.58	128.64	120.71
1	31	30	LYS	C-N-CA	5.58	128.64	120.71
1	35	143	ARG	N-CA-C	-5.58	105.27	111.36
1	39	173	ARG	NH1-CZ-NH2	-5.58	112.04	119.30
1	3d	53	ASN	CA-C-N	5.58	128.08	120.54
1	3d	53	ASN	C-N-CA	5.58	128.08	120.54
1	3k	173	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	3w	103	ASP	CA-C-O	5.58	126.68	120.82
1	3F	56	LEU	O-C-N	-5.58	114.85	122.33
1	3K	185	MET	CA-C-O	5.58	126.47	120.55
1	3Y	186	THR	N-CA-C	5.58	117.17	111.14
1	41	153	ILE	O-C-N	-5.58	116.60	122.57
1	4b	85	PRO	N-CA-CB	5.58	106.16	102.25
1	4e	31	ALA	CB-CA-C	-5.58	101.88	110.81
1	4j	22	ALA	CA-C-N	5.58	127.70	120.44
1	4j	22	ALA	C-N-CA	5.58	127.70	120.44
1	4m	187	GLU	N-CA-CB	5.58	118.17	110.07
1	4r	36	VAL	N-CA-C	5.58	115.78	110.42
1	4t	218	CYS	CA-C-N	5.58	128.80	120.87
1	4t	218	CYS	C-N-CA	5.58	128.80	120.87
1	4v	197	ASP	N-CA-C	5.58	118.09	111.33
1	4x	132	ARG	N-CA-CB	5.58	118.11	110.01
1	4y	105	ALA	O-C-N	-5.58	114.75	122.46
1	4y	122	PRO	CA-C-N	5.58	125.51	119.76
1	4y	122	PRO	C-N-CA	5.58	125.51	119.76
1	4A	70	LYS	CA-CB-CG	-5.58	102.93	114.10
1	4I	193	ASN	CA-C-N	5.58	130.66	121.39
1	4I	193	ASN	C-N-CA	5.58	130.66	121.39
1	4X	230	VAL	CA-CB-CG2	-5.58	100.91	110.40
1	5p	154	ARG	NH1-CZ-NH2	-5.58	112.04	119.30
1	5q	163	ASP	N-CA-C	-5.58	106.60	113.41
1	5q	171	THR	CA-CB-OG1	5.58	117.97	109.60
1	5t	141	ILE	N-CA-CB	-5.58	103.49	110.47
1	5v	91	ILE	N-CA-CB	5.58	116.62	110.53
1	5w	204	ALA	CA-C-N	5.58	127.76	120.28
1	5w	204	ALA	C-N-CA	5.58	127.76	120.28
1	5L	80	TRP	CD2-CE2-CZ2	-5.58	116.82	122.40
1	65	228	ALA	N-CA-CB	-5.58	101.76	109.97
1	68	62	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	69	81	ASP	O-C-N	-5.58	116.32	122.07
1	69	181	VAL	CA-C-O	5.58	127.09	121.17
1	6g	200	THR	N-CA-C	5.58	117.37	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	212	GLU	N-CA-CB	5.58	118.44	110.06
1	6j	52	LEU	O-C-N	-5.58	116.32	122.07
1	6l	87	HIS	CA-C-O	5.58	127.34	120.92
1	6q	208	ALA	CA-C-N	5.58	130.14	121.26
1	6q	208	ALA	C-N-CA	5.58	130.14	121.26
1	6y	5	ASN	CA-CB-CG	5.58	118.18	112.60
1	6R	195	ASN	N-CA-C	5.58	116.73	109.64
1	6S	120	HIS	CA-C-N	5.58	130.04	122.56
1	6S	120	HIS	C-N-CA	5.58	130.04	122.56
1	6T	41	SER	CA-C-O	5.58	126.87	120.90
1	72	124	ILE	O-C-N	-5.58	114.73	121.10
1	78	165	VAL	N-CA-C	5.58	116.32	110.62
1	7d	195	ASN	CB-CA-C	5.58	119.55	109.61
1	7f	139	ASN	CA-CB-CG	-5.58	107.02	112.60
1	7k	54	THR	CA-C-N	5.58	127.70	120.44
1	7k	54	THR	C-N-CA	5.58	127.70	120.44
1	7y	83	LEU	N-CA-CB	-5.58	101.90	110.16
1	7A	130	TYR	N-CA-C	5.58	117.37	111.28
1	7J	33	SER	CA-C-N	5.58	126.32	120.12
1	7J	33	SER	C-N-CA	5.58	126.32	120.12
1	7V	76	GLU	CA-C-O	5.58	126.47	120.55
1	8D	81	ASP	O-C-N	-5.58	115.79	122.15
1	8J	177	ALA	CA-C-N	5.58	129.71	120.94
1	8J	177	ALA	C-N-CA	5.58	129.71	120.94
1	8Z	193	ASN	CA-C-N	5.58	130.27	121.56
1	8Z	193	ASN	C-N-CA	5.58	130.27	121.56
1	91	183	ASN	CA-C-O	5.58	126.45	120.70
1	95	128	GLU	N-CA-C	5.58	117.37	111.28
1	9f	171	THR	N-CA-C	5.58	117.36	111.28
1	9s	200	THR	O-C-N	-5.58	116.20	122.12
1	9y	223	GLY	N-CA-C	5.58	123.73	112.34
1	9B	88	ALA	CA-C-N	5.58	130.64	121.87
1	9B	88	ALA	C-N-CA	5.58	130.64	121.87
1	9H	148	THR	N-CA-C	5.58	117.94	110.35
1	9S	65	ALA	CA-C-N	5.58	127.76	120.28
1	9S	65	ALA	C-N-CA	5.58	127.76	120.28
1	a3	225	GLY	N-CA-C	5.58	121.22	111.78
1	a4	195	ASN	CA-C-N	5.58	126.82	119.84
1	a4	195	ASN	C-N-CA	5.58	126.82	119.84
1	ap	159	GLU	CA-C-N	5.58	125.58	119.89
1	ap	159	GLU	C-N-CA	5.58	125.58	119.89
1	aH	54	THR	N-CA-CB	5.58	118.26	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	73	ILE	CA-C-O	5.58	126.50	120.47
1	aS	163	ASP	N-CA-CB	5.58	119.04	110.61
1	aX	135	ILE	N-CA-C	5.58	116.31	110.62
1	b4	28	GLU	CB-CA-C	-5.58	102.11	110.88
1	b7	223	GLY	CA-C-N	5.58	125.59	119.90
1	b7	223	GLY	C-N-CA	5.58	125.59	119.90
1	bc	41	SER	N-CA-C	5.58	117.04	111.07
1	bd	84	HIS	CB-CA-C	-5.58	103.97	110.17
1	bu	179	GLN	N-CA-CB	5.58	118.26	109.94
1	bF	195	ASN	CA-C-N	5.58	126.82	119.84
1	bF	195	ASN	C-N-CA	5.58	126.82	119.84
1	bJ	153	ILE	CA-C-N	5.58	130.10	122.84
1	bJ	153	ILE	C-N-CA	5.58	130.10	122.84
1	bK	106	GLY	CA-C-N	5.58	130.17	120.68
1	bK	106	GLY	C-N-CA	5.58	130.17	120.68
1	bR	181	VAL	CA-C-O	-5.58	115.25	121.17
1	cv	26	VAL	O-C-N	-5.58	116.45	121.87
1	cy	37	ILE	CB-CA-C	5.58	119.00	113.70
1	cA	196	PRO	CA-C-N	5.58	127.70	120.44
1	cA	196	PRO	C-N-CA	5.58	127.70	120.44
1	cB	77	ALA	CA-C-O	-5.58	114.63	120.55
1	cC	120	HIS	N-CA-C	-5.58	103.01	110.55
1	cC	127	GLY	CA-C-N	5.58	127.76	120.28
1	cC	127	GLY	C-N-CA	5.58	127.76	120.28
1	cF	165	VAL	O-C-N	5.58	127.71	121.90
1	cI	50	GLN	O-C-N	5.58	128.04	122.12
1	cI	114	GLN	OE1-CD-NE2	5.58	128.18	122.60
1	cM	41	SER	O-C-N	-5.58	116.20	122.12
1	1j	160	PRO	CB-CA-C	5.58	118.54	111.39
1	1k	62	HIS	ND1-CG-CD2	5.58	111.68	106.10
1	ds	140	LYS	CB-CA-C	-5.58	102.11	110.88
1	dt	200	THR	CA-C-N	5.58	127.71	120.56
1	dt	200	THR	C-N-CA	5.58	127.71	120.56
1	dS	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	dV	26	VAL	N-CA-CB	5.58	117.08	110.55
1	dY	9	GLN	CA-C-N	5.58	128.69	120.82
1	dY	9	GLN	C-N-CA	5.58	128.69	120.82
1	ek	164	TYR	N-CA-C	5.58	117.04	111.07
1	eB	77	ALA	N-CA-C	5.58	117.36	111.28
1	eF	216	THR	CA-C-O	-5.58	114.50	120.42
1	eH	148	THR	O-C-N	-5.58	115.94	122.81
1	eP	18	ARG	N-CA-CB	-5.58	101.62	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eU	5	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	f3	17	PRO	N-CA-CB	-5.58	97.05	103.30
1	1w	177	ALA	O-C-N	-5.58	115.17	122.59
1	ft	31	ALA	O-C-N	-5.58	114.95	122.43
1	fB	176	GLN	CA-C-N	5.58	131.84	121.62
1	fB	176	GLN	C-N-CA	5.58	131.84	121.62
1	fJ	205	LEU	N-CA-C	5.58	117.37	111.28
1	fL	21	ASN	N-CA-C	5.58	117.04	111.07
1	fP	53	ASN	CA-C-N	5.58	127.76	120.28
1	fP	53	ASN	C-N-CA	5.58	127.76	120.28
1	fT	75	GLU	N-CA-C	5.58	117.36	111.28
1	fV	211	LEU	O-C-N	-5.58	115.40	122.27
1	0	153	ILE	CA-C-N	5.58	131.03	122.93
1	0	153	ILE	C-N-CA	5.58	131.03	122.93
1	l	77	ALA	CA-C-O	5.58	126.34	120.42
1	m	23	TRP	CA-C-N	5.58	127.59	120.56
1	m	23	TRP	C-N-CA	5.58	127.59	120.56
1	n	84	HIS	CA-C-N	5.58	125.56	120.03
1	n	84	HIS	C-N-CA	5.58	125.56	120.03
1	o	77	ALA	N-CA-C	5.58	117.45	111.36
1	q	166	ASP	CA-CB-CG	5.58	118.18	112.60
1	r	44	SER	O-C-N	-5.58	115.61	122.25
1	x	68	MET	CA-C-O	5.58	126.34	120.42
1	z	144	MET	CA-CB-CG	5.58	125.27	114.10
1	A	75	GLU	CA-C-N	5.58	127.70	120.44
1	A	75	GLU	C-N-CA	5.58	127.70	120.44
1	C	48	THR	CA-C-O	-5.58	114.63	120.88
1	D	22	ALA	CA-C-N	5.58	127.70	120.44
1	D	22	ALA	C-N-CA	5.58	127.70	120.44
1	G	206	GLY	N-CA-C	5.58	118.98	112.23
1	8	63	GLN	N-CA-C	5.58	117.37	111.28
1	gN	38	PRO	N-CA-C	5.58	122.82	113.78
1	h7	63	GLN	N-CA-C	5.58	117.44	111.36
1	hg	84	HIS	CB-CG-CD2	-5.58	123.94	131.20
1	hg	176	GLN	CA-C-O	-5.58	112.68	119.43
1	hn	202	LEU	O-C-N	-5.58	116.06	122.09
1	hC	102	SER	N-CA-C	5.58	118.29	111.82
1	hE	85	PRO	CA-C-N	5.58	128.06	120.63
1	hE	85	PRO	C-N-CA	5.58	128.06	120.63
1	hV	115	ILE	CA-C-N	5.58	126.17	119.98
1	hV	115	ILE	C-N-CA	5.58	126.17	119.98
1	hZ	159	GLU	CA-C-N	5.58	126.82	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hZ	159	GLU	C-N-CA	5.58	126.82	119.84
1	i6	99	PRO	O-C-N	-5.58	116.90	122.98
1	i6	131	LYS	CA-C-N	5.58	128.03	120.44
1	i6	131	LYS	C-N-CA	5.58	128.03	120.44
1	im	87	HIS	O-C-N	-5.58	116.00	122.87
1	iq	21	ASN	O-C-N	-5.58	116.32	122.07
1	iu	45	GLU	N-CA-C	5.58	117.79	109.59
1	iz	181	VAL	O-C-N	-5.58	116.44	121.91
1	iZ	168	PHE	CA-C-N	5.58	128.22	120.29
1	iZ	168	PHE	C-N-CA	5.58	128.22	120.29
1	j8	221	VAL	O-C-N	-5.58	116.61	122.81
1	1U	92	GLU	CA-C-N	5.58	125.90	119.93
1	1U	92	GLU	C-N-CA	5.58	125.90	119.93
1	jn	224	PRO	N-CA-C	5.58	119.99	111.11
1	jN	230	VAL	CB-CA-C	5.58	119.27	111.34
1	jO	161	PHE	CA-C-N	5.58	128.03	120.38
1	jO	161	PHE	C-N-CA	5.58	128.03	120.38
1	1Y	114	GLN	N-CA-C	5.58	117.36	111.28
1	jR	59	VAL	CB-CA-C	-5.58	102.14	111.29
1	1Z	12	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	20	88	ALA	N-CA-CB	-5.58	102.13	110.17
1	kC	56	LEU	CA-C-N	5.58	127.70	120.44
1	kC	56	LEU	C-N-CA	5.58	127.70	120.44
1	kD	157	PRO	N-CA-C	5.58	119.36	110.21
1	kG	123	PRO	N-CA-C	-5.58	100.97	112.47
1	l8	41	SER	CB-CA-C	-5.58	101.19	110.68
1	lk	166	ASP	CA-C-N	5.58	128.22	120.29
1	lk	166	ASP	C-N-CA	5.58	128.22	120.29
1	ll	185	MET	CA-C-N	5.58	128.03	120.38
1	ll	185	MET	C-N-CA	5.58	128.03	120.38
1	lw	92	GLU	CA-C-N	5.58	125.53	119.78
1	lw	92	GLU	C-N-CA	5.58	125.53	119.78
1	lw	107	THR	OG1-CB-CG2	-5.58	98.14	109.30
1	ly	96	MET	N-CA-C	5.58	118.67	110.30
1	lC	84	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	lG	17	PRO	N-CA-C	5.58	121.19	113.65
1	lR	231	LEU	CB-CA-C	-5.58	99.50	110.10
1	2h	183	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	2C	11	VAL	O-C-N	5.58	129.69	122.77
1	2E	83	LEU	N-CA-CB	-5.58	102.23	110.49
1	2N	133	TRP	CB-CG-CD2	-5.58	118.98	126.80
1	33	1	PRO	CB-CA-C	5.58	120.70	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3d	216	THR	CA-C-N	5.58	132.90	122.74
1	3d	216	THR	C-N-CA	5.58	132.90	122.74
1	3g	48	THR	OG1-CB-CG2	-5.58	98.14	109.30
1	3g	213	GLU	CB-CA-C	-5.58	101.36	110.85
1	3s	212	GLU	CB-CG-CD	-5.58	103.11	112.60
1	3w	227	LYS	N-CA-C	5.58	118.64	109.76
1	3z	181	VAL	O-C-N	-5.58	116.44	121.91
1	3Z	40	PHE	CA-CB-CG	5.58	119.38	113.80
1	47	65	ALA	O-C-N	-5.58	116.20	122.12
1	47	84	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	4b	149	SER	N-CA-CB	5.58	118.23	109.69
1	4d	208	ALA	N-CA-C	-5.58	100.25	108.79
1	4h	42	ALA	N-CA-C	5.58	119.19	112.38
1	4p	180	GLU	CB-CG-CD	5.58	122.09	112.60
1	4w	227	LYS	CA-C-N	5.58	130.70	123.00
1	4w	227	LYS	C-N-CA	5.58	130.70	123.00
1	4B	89	GLY	CA-C-N	5.58	126.82	119.84
1	4B	89	GLY	C-N-CA	5.58	126.82	119.84
1	4S	158	LYS	N-CA-C	5.58	120.09	113.28
1	4Y	15	ILE	N-CA-C	5.58	117.49	109.51
1	5x	186	THR	CA-C-N	5.58	127.76	120.28
1	5x	186	THR	C-N-CA	5.58	127.76	120.28
1	5B	42	ALA	N-CA-C	5.58	117.44	111.36
1	68	66	MET	O-C-N	-5.58	116.06	122.09
1	6t	27	VAL	CA-CB-CG1	5.58	119.89	110.40
1	6v	92	GLU	CA-C-O	-5.58	113.26	118.73
1	6I	21	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	6J	185	MET	N-CA-CB	5.58	118.33	110.12
1	6M	148	THR	OG1-CB-CG2	-5.58	98.14	109.30
1	6R	36	VAL	N-CA-C	5.58	115.78	110.42
1	6R	129	ILE	CA-C-O	5.58	127.09	121.17
1	6X	77	ALA	CA-C-N	5.58	127.76	120.28
1	6X	77	ALA	C-N-CA	5.58	127.76	120.28
1	6Z	18	ARG	N-CA-C	5.58	117.04	111.07
1	79	40	PHE	CA-C-N	5.58	127.76	120.28
1	79	40	PHE	C-N-CA	5.58	127.76	120.28
1	7m	62	HIS	ND1-CG-CD2	5.58	111.68	106.10
1	7m	110	THR	CA-C-O	5.58	127.08	120.66
1	7y	20	LEU	CA-C-N	5.58	127.76	120.28
1	7y	20	LEU	C-N-CA	5.58	127.76	120.28
1	7F	186	THR	O-C-N	-5.58	116.29	122.09
1	7K	155	GLN	OE1-CD-NE2	-5.58	117.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Y	207	PRO	N-CA-CB	5.58	109.44	103.52
1	8Z	159	GLU	CA-C-O	-5.58	114.45	119.59
1	92	186	THR	CA-C-N	5.58	127.76	120.28
1	92	186	THR	C-N-CA	5.58	127.76	120.28
1	99	224	PRO	N-CA-C	5.58	123.97	112.47
1	9d	160	PRO	N-CA-CB	5.58	108.01	103.32
1	9z	68	MET	CG-SD-CE	-5.58	88.62	100.90
1	9B	173	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	9M	139	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	9R	98	GLU	CA-C-N	5.58	125.86	119.83
1	9R	98	GLU	C-N-CA	5.58	125.86	119.83
1	9X	127	GLY	CA-C-N	5.58	127.76	120.28
1	9X	127	GLY	C-N-CA	5.58	127.76	120.28
1	9X	132	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	9Y	39	MET	N-CA-C	5.58	117.36	111.28
1	9Z	19	THR	O-C-N	-5.58	116.20	122.12
1	9Z	87	HIS	O-C-N	-5.58	116.80	123.27
1	a1	55	MET	CA-C-O	5.58	126.47	120.55
1	a1	192	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	ac	34	PRO	CA-C-N	5.58	127.76	120.28
1	ac	34	PRO	C-N-CA	5.58	127.76	120.28
1	af	45	GLU	N-CA-C	5.58	118.44	110.24
1	ah	195	ASN	CA-C-N	5.58	125.04	119.24
1	ah	195	ASN	C-N-CA	5.58	125.04	119.24
1	ax	183	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	aF	141	ILE	O-C-N	5.58	127.38	121.91
1	aL	6	LEU	O-C-N	-5.58	115.17	122.59
1	aM	185	MET	CA-C-N	5.58	128.79	120.31
1	aM	185	MET	C-N-CA	5.58	128.79	120.31
1	aW	11	VAL	CA-C-O	5.58	127.62	120.76
1	aX	91	ILE	N-CA-C	-5.58	106.35	113.22
1	b3	197	ASP	CA-C-N	5.58	127.76	120.28
1	b3	197	ASP	C-N-CA	5.58	127.76	120.28
1	bp	106	GLY	N-CA-C	5.58	122.78	115.47
1	bu	19	THR	O-C-N	-5.58	115.40	122.27
1	by	50	GLN	O-C-N	-5.58	116.20	122.12
1	bE	185	MET	N-CA-C	5.58	117.36	111.28
1	bT	150	ILE	N-CA-C	5.58	118.03	111.05
1	bU	80	TRP	N-CA-C	5.58	117.36	111.28
1	c0	154	ARG	CB-CG-CD	5.58	124.14	111.30
1	c4	140	LYS	N-CA-C	5.58	117.36	111.28
1	c5	43	LEU	CA-C-O	5.58	125.80	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	97	ARG	O-C-N	-5.58	116.43	122.79
1	ct	84	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	cz	152	ASP	CA-CB-CG	-5.58	107.02	112.60
1	cJ	207	PRO	CB-CA-C	5.58	120.77	111.56
1	cM	126	VAL	N-CA-C	5.58	120.95	109.34
1	cT	185	MET	N-CA-C	5.58	118.08	111.33
1	d5	209	ALA	CA-C-N	5.58	132.20	121.54
1	d5	209	ALA	C-N-CA	5.58	132.20	121.54
1	di	146	SER	CA-C-O	-5.58	112.51	120.16
1	dD	79	GLU	N-CA-CB	5.58	118.10	110.01
1	dE	179	GLN	N-CA-C	5.58	117.44	111.36
1	dT	163	ASP	N-CA-C	5.58	118.29	111.82
1	e1	138	LEU	CA-C-N	5.58	128.03	120.38
1	e1	138	LEU	C-N-CA	5.58	128.03	120.38
1	e3	224	PRO	N-CA-C	5.58	123.97	112.47
1	eb	178	SER	N-CA-CB	5.58	117.88	109.34
1	eg	202	LEU	N-CA-C	5.58	117.36	111.28
1	1r	120	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	ez	163	ASP	CA-C-N	5.58	127.76	120.28
1	ez	163	ASP	C-N-CA	5.58	127.76	120.28
1	eJ	199	LYS	O-C-N	-5.58	116.20	122.12
1	eM	23	TRP	CB-CG-CD2	5.58	134.61	126.80
1	1t	35	GLU	CA-C-N	5.58	128.10	120.46
1	1t	35	GLU	C-N-CA	5.58	128.10	120.46
1	eT	38	PRO	CA-C-N	5.58	128.22	120.29
1	eT	38	PRO	C-N-CA	5.58	128.22	120.29
1	f1	199	LYS	N-CA-C	5.58	117.81	111.11
1	f7	129	ILE	CA-C-O	5.58	127.09	121.17
1	fh	126	VAL	CA-CB-CG2	5.58	119.89	110.40
1	fh	202	LEU	CA-C-N	5.58	127.76	120.28
1	fh	202	LEU	C-N-CA	5.58	127.76	120.28
1	fi	161	PHE	O-C-N	-5.58	115.69	122.22
1	fp	101	GLY	N-CA-C	5.58	119.64	112.83
1	fD	63	GLN	N-CA-CB	5.58	118.42	110.16
1	fD	112	GLN	N-CA-C	5.58	118.30	111.82
1	fD	212	GLU	N-CA-C	5.58	117.36	111.28
1	fF	56	LEU	CB-CA-C	5.58	119.64	110.88
1	fF	192	GLN	O-C-N	-5.58	116.20	122.12
1	fV	198	CYS	CA-C-N	5.58	128.53	120.38
1	fV	198	CYS	C-N-CA	5.58	128.53	120.38
1	fY	181	VAL	N-CA-C	5.58	116.31	110.62
1	g0	121	ASN	OD1-CG-ND2	-5.58	117.02	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g5	12	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	s	43	LEU	N-CA-C	-5.58	105.97	112.89
1	u	95	GLN	O-C-N	-5.58	115.90	123.10
1	B	103	ASP	CA-CB-CG	5.58	118.18	112.60
1	E	120	HIS	CA-C-N	5.58	130.04	122.56
1	E	120	HIS	C-N-CA	5.58	130.04	122.56
1	I	4	GLN	CA-C-N	5.58	128.79	120.31
1	I	4	GLN	C-N-CA	5.58	128.79	120.31
1	I	21	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	T	148	THR	N-CA-C	5.58	117.94	110.35
1	U	102	SER	N-CA-C	5.58	119.81	112.89
1	W	33	SER	O-C-N	-5.58	117.48	121.83
1	X	143	ARG	CA-C-N	5.58	127.76	120.28
1	X	143	ARG	C-N-CA	5.58	127.76	120.28
1	8	125	PRO	CA-C-N	5.58	128.11	120.46
1	8	125	PRO	C-N-CA	5.58	128.11	120.46
1	g8	197	ASP	CA-C-N	5.58	128.21	120.29
1	g8	197	ASP	C-N-CA	5.58	128.21	120.29
1	gk	169	TYR	N-CA-C	5.58	118.13	111.71
1	1D	131	LYS	CA-CB-CG	-5.58	102.94	114.10
1	gu	63	GLN	CA-C-O	-5.58	112.39	119.31
1	gw	177	ALA	CA-C-N	5.58	129.02	120.82
1	gw	177	ALA	C-N-CA	5.58	129.02	120.82
1	gE	3	VAL	N-CA-C	5.58	115.34	108.53
1	gE	101	GLY	CA-C-N	5.58	128.31	120.28
1	gE	101	GLY	C-N-CA	5.58	128.31	120.28
1	gQ	15	ILE	N-CA-CB	5.58	116.91	110.49
1	hd	56	LEU	CA-C-N	5.58	128.02	120.38
1	hd	56	LEU	C-N-CA	5.58	128.02	120.38
1	hg	163	ASP	CA-C-O	5.58	126.41	120.10
1	hh	107	THR	N-CA-C	-5.58	104.59	111.40
1	hs	9	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	hS	175	GLU	CA-C-N	5.58	132.46	121.58
1	hS	175	GLU	C-N-CA	5.58	132.46	121.58
1	ia	29	GLU	N-CA-C	5.58	118.55	111.69
1	it	119	THR	CA-C-O	5.58	126.17	119.59
1	iG	79	GLU	CA-C-N	5.58	127.76	120.28
1	iG	79	GLU	C-N-CA	5.58	127.76	120.28
1	iH	156	GLY	CA-C-O	5.58	129.50	121.52
1	1R	76	GLU	N-CA-C	5.58	117.44	111.36
1	j4	97	ARG	N-CA-C	5.58	119.01	110.36
1	jd	177	ALA	N-CA-C	5.58	117.74	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1V	226	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	jw	173	ARG	CA-C-N	5.58	127.69	120.44
1	jw	173	ARG	C-N-CA	5.58	127.69	120.44
1	k2	211	LEU	O-C-N	5.58	128.03	122.12
1	20	126	VAL	CA-C-N	5.58	126.13	119.94
1	20	126	VAL	C-N-CA	5.58	126.13	119.94
1	22	164	TYR	CA-C-N	5.58	128.10	120.46
1	22	164	TYR	C-N-CA	5.58	128.10	120.46
1	kE	16	SER	N-CA-C	5.58	116.69	109.72
1	kL	14	ALA	O-C-N	-5.58	116.16	122.97
1	l9	211	LEU	CA-C-N	5.58	127.69	120.44
1	l9	211	LEU	C-N-CA	5.58	127.69	120.44
1	ly	98	GLU	CA-C-N	5.58	125.90	119.93
1	ly	98	GLU	C-N-CA	5.58	125.90	119.93
1	lH	68	MET	CA-C-O	5.58	126.41	120.10
1	lH	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	2x	23	TRP	N-CA-C	5.58	117.36	111.28
1	2y	124	ILE	N-CA-CB	-5.58	104.37	111.23
1	2T	39	MET	O-C-N	-5.58	116.32	122.07
1	35	67	GLN	O-C-N	-5.58	116.06	122.09
1	3e	64	ALA	N-CA-C	5.58	117.04	111.07
1	3k	84	HIS	N-CA-C	5.58	118.23	108.75
1	3F	154	ARG	N-CA-CB	5.58	121.23	111.13
1	4f	4	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	4F	86	VAL	CB-CA-C	-5.58	105.20	111.45
1	4M	93	PRO	N-CA-CB	5.58	108.21	103.19
1	4Z	119	THR	CA-C-N	5.58	128.79	120.87
1	4Z	119	THR	C-N-CA	5.58	128.79	120.87
1	5f	11	VAL	O-C-N	-5.58	116.86	123.05
1	5q	195	ASN	CB-CA-C	5.58	118.25	109.27
1	5N	129	ILE	O-C-N	-5.58	116.10	121.90
1	5T	13	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	64	159	GLU	CA-C-N	5.58	125.59	119.90
1	64	159	GLU	C-N-CA	5.58	125.59	119.90
1	6b	216	THR	N-CA-C	-5.58	105.20	112.23
1	6e	100	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	6p	175	GLU	N-CA-C	5.58	117.94	110.35
1	6N	120	HIS	ND1-CG-CD2	-5.58	100.52	106.10
1	7t	216	THR	CA-CB-OG1	-5.58	101.23	109.60
1	7M	98	GLU	O-C-N	-5.58	116.57	121.31
1	8o	229	ARG	CA-C-N	5.58	128.84	120.69
1	8o	229	ARG	C-N-CA	5.58	128.84	120.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8A	229	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	8X	26	VAL	CG1-CB-CG2	5.58	123.08	110.80
1	8X	154	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	9C	195	ASN	O-C-N	-5.58	115.69	121.60
1	9H	129	ILE	O-C-N	5.58	127.38	121.91
1	9X	182	LYS	CB-CA-C	5.58	120.05	110.79
1	as	178	SER	N-CA-C	5.58	117.74	110.43
1	aL	27	VAL	N-CA-C	5.58	116.36	110.72
1	b2	187	GLU	CB-CA-C	5.58	120.05	110.79
1	b4	132	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	bl	55	MET	CA-C-N	5.58	127.69	120.44
1	bl	55	MET	C-N-CA	5.58	127.69	120.44
1	by	138	LEU	N-CA-C	5.58	119.26	112.23
1	bF	57	ASN	N-CA-CB	-5.58	101.70	110.46
1	bQ	77	ALA	N-CA-CB	-5.58	101.92	110.12
1	bS	73	ILE	CB-CA-C	-5.58	104.74	111.88
1	c1	174	ALA	N-CA-C	-5.58	105.78	112.59
1	ca	4	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	cm	67	GLN	CB-CG-CD	5.58	122.08	112.60
1	cC	203	LYS	N-CA-C	5.58	118.13	111.71
1	cH	40	PHE	CA-C-N	5.58	128.07	120.54
1	cH	40	PHE	C-N-CA	5.58	128.07	120.54
1	cH	59	VAL	N-CA-C	5.58	116.26	108.89
1	d5	129	ILE	N-CA-CB	5.58	117.08	110.55
1	1k	144	MET	CG-SD-CE	-5.58	88.62	100.90
1	dq	16	SER	CA-C-O	5.58	124.44	119.59
1	dA	105	ALA	N-CA-C	5.58	119.35	112.54
1	dX	132	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	dZ	84	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	eJ	147	PRO	CB-CA-C	-5.58	104.09	111.23
1	1t	62	HIS	CB-CG-CD2	-5.58	123.95	131.20
1	f4	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	fm	98	GLU	N-CA-C	5.58	119.54	109.44
1	fK	9	GLN	O-C-N	-5.58	116.23	123.32
1	V	216	THR	CA-CB-CG2	5.58	119.98	110.50
1	g8	97	ARG	N-CA-C	5.58	117.53	110.33
1	g9	223	GLY	CA-C-N	5.58	126.81	119.84
1	g9	223	GLY	C-N-CA	5.58	126.81	119.84
1	gc	72	THR	N-CA-C	5.58	117.36	111.28
1	gd	216	THR	N-CA-C	-5.58	105.68	112.88
1	gi	132	ARG	N-CA-C	5.58	117.36	111.28
1	go	134	ILE	CA-C-N	5.58	127.59	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	go	134	ILE	C-N-CA	5.58	127.59	120.56
1	gv	22	ALA	N-CA-C	5.58	117.16	111.14
1	gy	50	GLN	CA-CB-CG	5.58	125.26	114.10
1	gz	194	ALA	N-CA-C	5.58	117.89	110.53
1	gO	143	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	h5	83	LEU	O-C-N	-5.58	116.32	122.07
1	h9	42	ALA	CA-C-N	5.58	128.31	120.28
1	h9	42	ALA	C-N-CA	5.58	128.31	120.28
1	hc	118	MET	CA-C-O	-5.58	114.51	120.42
1	hf	63	GLN	N-CA-C	5.58	118.29	111.82
1	hk	87	HIS	CA-C-N	5.58	129.70	120.94
1	hk	87	HIS	C-N-CA	5.58	129.70	120.94
1	hl	92	GLU	CA-C-O	-5.58	112.93	118.34
1	1K	215	MET	CG-SD-CE	-5.58	88.63	100.90
1	hA	50	GLN	N-CA-CB	5.58	118.16	110.07
1	1M	91	ILE	CA-CB-CG2	-5.58	101.02	110.50
1	it	96	MET	CB-CA-C	5.58	121.52	110.42
1	iB	67	GLN	N-CA-C	5.58	119.34	112.54
1	iH	196	PRO	O-C-N	-5.58	115.83	122.24
1	iJ	85	PRO	N-CA-CB	5.58	106.44	102.65
1	iX	69	LEU	CA-C-N	5.58	127.69	120.44
1	iX	69	LEU	C-N-CA	5.58	127.69	120.44
1	1T	198	CYS	CA-C-N	5.58	128.07	120.54
1	1T	198	CYS	C-N-CA	5.58	128.07	120.54
1	ja	84	HIS	CB-CG-CD2	-5.58	123.95	131.20
1	1U	88	ALA	CA-C-O	5.58	125.76	119.18
1	jh	91	ILE	CB-CG1-CD1	-5.58	102.08	113.80
1	jl	46	GLY	CA-C-N	5.58	129.18	120.75
1	jl	46	GLY	C-N-CA	5.58	129.18	120.75
1	1V	76	GLU	CA-C-N	5.58	127.75	120.28
1	1V	76	GLU	C-N-CA	5.58	127.75	120.28
1	jo	69	LEU	N-CA-CB	-5.58	101.89	110.20
1	jM	18	ARG	N-CA-C	5.58	117.36	111.28
1	jX	47	ALA	N-CA-C	5.58	118.67	110.30
1	jY	129	ILE	N-CA-C	5.58	116.31	110.62
1	1Z	84	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	k0	89	GLY	CA-C-N	5.58	125.59	119.90
1	k0	89	GLY	C-N-CA	5.58	125.59	119.90
1	k7	226	HIS	N-CA-C	5.58	120.09	113.28
1	20	146	SER	CA-C-N	5.58	126.81	119.84
1	20	146	SER	C-N-CA	5.58	126.81	119.84
1	kd	128	GLU	N-CA-C	5.58	117.04	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	54	THR	N-CA-CB	5.58	118.25	109.94
1	kk	206	GLY	CA-C-N	5.58	126.31	120.12
1	kk	206	GLY	C-N-CA	5.58	126.31	120.12
1	kr	156	GLY	CA-C-N	5.58	125.19	119.56
1	kr	156	GLY	C-N-CA	5.58	125.19	119.56
1	ks	87	HIS	O-C-N	-5.58	116.36	123.06
1	kz	129	ILE	CB-CA-C	-5.58	104.83	111.97
1	kB	5	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	kQ	143	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	kR	106	GLY	CA-C-N	5.58	127.69	120.44
1	kR	106	GLY	C-N-CA	5.58	127.69	120.44
1	kT	133	TRP	CA-C-N	5.58	128.34	120.42
1	kT	133	TRP	C-N-CA	5.58	128.34	120.42
1	25	205	LEU	CA-C-O	-5.58	114.51	120.42
1	25	229	ARG	N-CA-C	5.58	119.72	113.02
1	l3	3	VAL	N-CA-C	5.58	115.98	108.17
1	lq	153	ILE	CA-C-O	5.58	127.34	121.59
1	lw	16	SER	O-C-N	-5.58	114.55	121.64
1	lw	175	GLU	CA-C-N	5.58	130.36	121.66
1	lw	175	GLU	C-N-CA	5.58	130.36	121.66
1	lL	58	THR	N-CA-C	5.58	118.13	111.71
1	lR	212	GLU	N-CA-C	5.58	117.36	111.28
1	2r	11	VAL	CA-C-O	5.58	126.25	120.39
1	2s	27	VAL	CA-C-N	5.58	127.76	120.28
1	2s	27	VAL	C-N-CA	5.58	127.76	120.28
1	2t	55	MET	N-CA-C	5.58	117.04	111.07
1	2G	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	2N	219	GLN	CB-CG-CD	-5.58	103.11	112.60
1	2T	198	CYS	CA-C-O	-5.58	114.95	120.70
1	2U	201	ILE	N-CA-C	-5.58	105.29	110.53
1	2X	143	ARG	N-CA-C	5.58	117.36	111.28
1	33	165	VAL	CA-C-N	5.58	128.07	120.54
1	33	165	VAL	C-N-CA	5.58	128.07	120.54
1	3a	192	GLN	N-CA-CB	5.58	118.42	110.16
1	3b	112	GLN	CA-C-N	5.58	127.69	120.44
1	3b	112	GLN	C-N-CA	5.58	127.69	120.44
1	3i	155	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	3w	152	ASP	CA-C-N	5.58	128.19	120.49
1	3w	152	ASP	C-N-CA	5.58	128.19	120.49
1	3x	62	HIS	ND1-CG-CD2	5.58	111.68	106.10
1	3z	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	3H	160	PRO	O-C-N	-5.58	115.11	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	154	ARG	CD-NE-CZ	-5.58	116.59	124.40
1	3O	196	PRO	N-CA-C	5.58	123.96	112.47
1	3T	124	ILE	O-C-N	-5.58	114.74	121.10
1	3U	89	GLY	CA-C-O	-5.58	116.63	122.38
1	40	1	PRO	CA-C-N	5.58	128.57	120.98
1	40	1	PRO	C-N-CA	5.58	128.57	120.98
1	4b	171	THR	N-CA-C	5.58	117.36	111.28
1	4l	25	LYS	CA-C-N	5.58	127.59	120.56
1	4l	25	LYS	C-N-CA	5.58	127.59	120.56
1	4v	11	VAL	CA-C-N	-5.58	113.52	121.50
1	4v	11	VAL	C-N-CA	-5.58	113.52	121.50
1	4A	76	GLU	N-CA-C	5.58	117.36	111.28
1	4X	132	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	58	61	GLY	O-C-N	-5.58	118.36	122.71
1	58	154	ARG	CG-CD-NE	-5.58	99.73	112.00
1	59	16	SER	CA-C-N	5.58	126.81	119.84
1	59	16	SER	C-N-CA	5.58	126.81	119.84
1	5K	175	GLU	N-CA-C	5.58	118.32	110.23
1	5N	221	VAL	O-C-N	5.58	127.28	121.87
1	5P	12	HIS	CB-CG-CD2	-5.58	123.95	131.20
1	5P	148	THR	N-CA-C	5.58	118.63	109.76
1	5T	37	ILE	CA-CB-CG2	5.58	119.98	110.50
1	6c	62	HIS	CA-C-N	5.58	127.69	120.44
1	6c	62	HIS	C-N-CA	5.58	127.69	120.44
1	6c	111	LEU	CA-C-O	-5.58	114.64	120.55
1	6F	37	ILE	CA-C-N	5.58	125.10	119.19
1	6F	37	ILE	C-N-CA	5.58	125.10	119.19
1	6I	71	GLU	CA-C-N	5.58	127.75	120.28
1	6I	71	GLU	C-N-CA	5.58	127.75	120.28
1	6P	208	ALA	N-CA-C	5.58	119.54	111.56
1	76	26	VAL	N-CA-CB	5.58	116.95	110.65
1	7f	34	PRO	N-CA-CB	-5.58	96.07	102.60
1	7m	162	ARG	CA-C-N	5.58	127.75	120.28
1	7m	162	ARG	C-N-CA	5.58	127.75	120.28
1	7s	26	VAL	N-CA-CB	5.58	116.70	110.51
1	7t	21	ASN	CA-CB-CG	-5.58	107.02	112.60
1	7y	103	ASP	N-CA-C	5.58	117.04	111.07
1	7z	194	ALA	O-C-N	-5.58	115.79	122.65
1	7A	18	ARG	CA-C-O	5.58	126.46	120.55
1	7B	190	LEU	N-CA-CB	-5.58	101.92	110.12
1	7C	11	VAL	CA-C-N	5.58	128.69	120.82
1	7C	11	VAL	C-N-CA	5.58	128.69	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7D	193	ASN	CA-C-N	5.58	129.18	120.75
1	7D	193	ASN	C-N-CA	5.58	129.18	120.75
1	7E	78	ALA	O-C-N	-5.58	116.33	122.07
1	7G	12	HIS	CB-CA-C	5.58	118.73	109.53
1	7H	141	ILE	CB-CA-C	-5.58	104.61	112.14
1	7Q	226	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	89	216	THR	N-CA-CB	5.58	120.09	111.39
1	8e	112	GLN	O-C-N	-5.58	116.21	122.12
1	8A	40	PHE	N-CA-C	5.58	117.36	111.28
1	8M	61	GLY	CA-C-N	5.58	130.28	122.36
1	8M	61	GLY	C-N-CA	5.58	130.28	122.36
1	8T	40	PHE	CA-C-O	5.58	126.68	120.82
1	91	62	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	9f	142	VAL	N-CA-C	5.58	118.02	111.05
1	9l	229	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	9v	119	THR	CA-CB-OG1	5.58	117.97	109.60
1	9N	199	LYS	CA-C-N	5.58	128.21	120.29
1	9N	199	LYS	C-N-CA	5.58	128.21	120.29
1	Y	229	ARG	N-CA-CB	-5.58	102.84	111.65
1	a7	52	LEU	N-CA-C	5.58	117.36	111.28
1	a9	51	ASP	CA-CB-CG	-5.58	107.02	112.60
1	10	185	MET	N-CA-C	5.58	117.80	111.11
1	ae	11	VAL	O-C-N	-5.58	116.57	123.10
1	ah	66	MET	CA-C-N	5.58	127.75	120.28
1	ah	66	MET	C-N-CA	5.58	127.75	120.28
1	ai	145	TYR	CB-CG-CD2	-5.58	112.43	120.80
1	11	137	GLY	N-CA-C	5.58	118.97	112.50
1	ak	39	MET	N-CA-CB	-5.58	101.92	110.01
1	at	18	ARG	N-CA-CB	5.58	118.10	110.01
1	au	87	HIS	CA-CB-CG	-5.58	108.22	113.80
1	av	5	ASN	N-CA-C	5.58	118.68	110.59
1	aC	146	SER	N-CA-CB	5.58	119.07	111.20
1	aY	117	TRP	CE2-CD2-CG	5.58	113.89	107.20
1	b6	195	ASN	CA-C-N	5.58	125.24	119.05
1	b6	195	ASN	C-N-CA	5.58	125.24	119.05
1	be	60	GLY	O-C-N	-5.58	115.45	122.70
1	be	96	MET	N-CA-C	5.58	122.68	110.80
1	17	74	ASN	CA-CB-CG	-5.58	107.02	112.60
1	bu	37	ILE	CA-C-N	5.58	126.81	119.84
1	bu	37	ILE	C-N-CA	5.58	126.81	119.84
1	1b	196	PRO	N-CA-C	5.58	123.96	112.47
1	c3	23	TRP	CE2-CD2-CE3	5.58	124.38	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c3	49	PRO	N-CD-CG	5.58	111.57	103.20
1	c4	41	SER	O-C-N	5.58	127.89	122.09
1	cs	134	ILE	CA-C-N	5.58	128.10	120.46
1	cs	134	ILE	C-N-CA	5.58	128.10	120.46
1	dz	177	ALA	CA-C-N	5.58	128.69	120.82
1	dz	177	ALA	C-N-CA	5.58	128.69	120.82
1	dE	40	PHE	N-CA-C	5.58	117.04	111.07
1	dF	97	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	dP	51	ASP	CA-C-O	-5.58	113.19	120.00
1	dP	172	LEU	N-CA-C	5.58	117.36	111.28
1	e1	72	THR	O-C-N	-5.58	115.69	122.22
1	eg	100	ARG	CD-NE-CZ	5.58	132.21	124.40
1	ek	53	ASN	O-C-N	-5.58	116.21	122.12
1	ev	168	PHE	CA-C-N	5.58	127.69	120.44
1	ev	168	PHE	C-N-CA	5.58	127.69	120.44
1	ey	169	TYR	CG-CD1-CE1	-5.58	112.83	121.20
1	ez	12	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	ez	50	GLN	CA-C-N	5.58	128.07	120.54
1	ez	50	GLN	C-N-CA	5.58	128.07	120.54
1	eA	180	GLU	CB-CG-CD	5.58	122.08	112.60
1	eH	167	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	eX	200	THR	CA-C-O	-5.58	114.93	120.90
1	f1	197	ASP	N-CA-CB	5.58	118.10	110.01
1	f8	95	GLN	N-CA-CB	5.58	119.72	110.52
1	fi	33	SER	CA-C-O	-5.58	115.48	120.56
1	fz	27	VAL	CB-CA-C	5.58	119.33	112.02
1	fB	198	CYS	CA-C-N	5.58	128.79	120.31
1	fB	198	CYS	C-N-CA	5.58	128.79	120.31
1	fI	226	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	fN	120	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	fT	55	MET	CA-C-N	5.58	127.76	120.28
1	fT	55	MET	C-N-CA	5.58	127.76	120.28
1	fW	92	GLU	O-C-N	-5.58	117.94	121.85
1	1A	11	VAL	N-CA-C	5.58	116.90	109.37
1	g4	73	ILE	CA-C-N	5.58	127.75	120.28
1	g4	73	ILE	C-N-CA	5.58	127.75	120.28
1	i	156	GLY	N-CA-C	5.58	118.98	112.23
1	i	181	VAL	CA-CB-CG2	-5.58	100.92	110.40
1	t	191	VAL	CA-C-O	5.58	125.78	119.92
1	2	190	LEU	N-CA-C	5.58	117.83	111.02
1	w	52	LEU	CA-C-O	-5.58	114.96	120.82
1	C	18	ARG	CA-C-N	5.58	127.75	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	18	ARG	C-N-CA	5.58	127.75	120.28
1	F	80	TRP	CB-CA-C	5.58	119.64	110.88
1	O	57	ASN	CA-CB-CG	-5.58	107.02	112.60
1	O	226	HIS	ND1-CE1-NE2	5.58	113.98	108.40
1	T	169	TYR	CG-CD2-CE2	-5.58	112.83	121.20
1	gK	2	ILE	CB-CA-C	5.58	119.26	111.34
1	gO	126	VAL	CA-C-O	5.58	126.49	120.47
1	h0	62	HIS	ND1-CG-CD2	5.58	111.68	106.10
1	hb	221	VAL	CA-CB-CG1	5.58	119.88	110.40
1	hf	173	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	hA	110	THR	O-C-N	-5.58	116.73	123.03
1	1M	210	THR	N-CA-CB	5.58	117.87	110.29
1	hW	66	MET	N-CA-C	5.58	117.44	111.36
1	ib	200	THR	O-C-N	-5.58	115.79	122.15
1	ir	124	ILE	N-CA-C	-5.58	101.37	107.73
1	jq	179	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	jK	229	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	k6	129	ILE	CA-C-N	5.58	128.21	120.29
1	k6	129	ILE	C-N-CA	5.58	128.21	120.29
1	k7	81	ASP	N-CA-C	5.58	117.04	111.07
1	kW	213	GLU	O-C-N	-5.58	115.79	122.15
1	lo	229	ARG	N-CA-C	5.58	117.44	111.36
1	2k	75	GLU	CA-C-N	5.58	127.69	120.44
1	2k	75	GLU	C-N-CA	5.58	127.69	120.44
1	2K	205	LEU	N-CA-C	5.58	117.80	111.11
1	2O	131	LYS	O-C-N	-5.58	116.21	122.12
1	2Q	138	LEU	N-CA-C	5.58	117.36	111.28
1	3v	32	PHE	CB-CA-C	-5.58	101.05	110.64
1	3C	213	GLU	N-CA-C	5.58	117.36	111.28
1	3U	218	CYS	CB-CA-C	5.58	121.52	110.42
1	4x	21	ASN	CA-C-N	5.58	127.69	120.44
1	4x	21	ASN	C-N-CA	5.58	127.69	120.44
1	4J	167	ARG	CG-CD-NE	-5.58	99.73	112.00
1	4S	187	GLU	CB-CA-C	-5.58	98.33	109.99
1	50	115	ILE	CA-C-N	5.58	126.29	119.99
1	50	115	ILE	C-N-CA	5.58	126.29	119.99
1	5x	157	PRO	O-C-N	-5.58	115.26	122.23
1	5D	168	PHE	CB-CA-C	5.58	119.55	110.96
1	5O	222	GLY	N-CA-C	5.58	119.23	112.48
1	5S	112	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	62	23	TRP	O-C-N	-5.58	116.21	122.12
1	6d	138	LEU	CA-C-O	-5.58	114.64	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6j	107	THR	N-CA-CB	5.58	118.69	110.33
1	6k	113	GLU	CA-C-N	5.58	128.03	120.44
1	6k	113	GLU	C-N-CA	5.58	128.03	120.44
1	6u	103	ASP	CA-C-N	5.58	127.59	120.56
1	6u	103	ASP	C-N-CA	5.58	127.59	120.56
1	6v	124	ILE	CA-C-N	5.58	126.81	119.84
1	6v	124	ILE	C-N-CA	5.58	126.81	119.84
1	6K	39	MET	CA-CB-CG	-5.58	102.95	114.10
1	6U	211	LEU	N-CA-C	-5.58	105.97	112.89
1	6W	68	MET	N-CA-C	5.58	117.36	111.28
1	7e	191	VAL	CA-CB-CG1	-5.58	100.92	110.40
1	7l	33	SER	O-C-N	-5.58	117.92	121.88
1	7C	2	ILE	CA-CB-CG1	5.58	119.88	110.40
1	7M	30	LYS	CA-C-O	-5.58	112.83	119.35
1	7P	4	GLN	CB-CG-CD	5.58	122.08	112.60
1	80	155	GLN	N-CA-C	5.58	118.27	109.96
1	89	80	TRP	CA-CB-CG	5.58	124.20	113.60
1	8b	171	THR	N-CA-C	5.58	117.04	111.07
1	8L	171	THR	CA-C-O	5.58	126.38	119.97
1	8Q	199	LYS	CA-C-N	5.58	128.07	120.54
1	8Q	199	LYS	C-N-CA	5.58	128.07	120.54
1	9l	180	GLU	CA-C-N	5.58	127.70	120.56
1	9l	180	GLU	C-N-CA	5.58	127.70	120.56
1	9F	14	ALA	CA-C-O	-5.58	115.23	121.81
1	9N	76	GLU	N-CA-C	5.58	118.08	111.33
1	9R	81	ASP	CA-C-N	5.58	127.75	120.28
1	9R	81	ASP	C-N-CA	5.58	127.75	120.28
1	aE	87	HIS	CG-CD2-NE2	5.58	112.78	107.20
1	aO	144	MET	CG-SD-CE	-5.58	88.63	100.90
1	bn	43	LEU	N-CA-C	-5.58	105.69	112.88
1	bq	5	ASN	CA-CB-CG	5.58	118.18	112.60
1	bR	101	GLY	CA-C-N	5.58	128.31	120.28
1	bR	101	GLY	C-N-CA	5.58	128.31	120.28
1	1b	121	ASN	OD1-CG-ND2	-5.58	117.02	122.60
1	ca	18	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	cG	7	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	cO	92	GLU	CA-C-O	-5.58	114.62	120.70
1	cS	82	ARG	CA-C-O	5.58	126.33	120.42
1	dt	76	GLU	CA-C-O	5.58	126.33	120.42
1	e5	62	HIS	CA-CB-CG	-5.58	108.22	113.80
1	ec	59	VAL	CA-C-O	5.58	127.75	120.78
1	1s	113	GLU	CA-C-N	5.58	127.69	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1s	113	GLU	C-N-CA	5.58	127.69	120.44
1	eM	91	ILE	N-CA-CB	5.58	117.60	110.13
1	eM	213	GLU	N-CA-C	5.58	117.16	111.14
1	1t	153	ILE	CA-CB-CG1	5.58	119.88	110.40
1	eU	154	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	f0	230	VAL	N-CA-CB	5.58	120.43	111.23
1	fF	215	MET	N-CA-C	5.58	119.34	112.54
1	m	146	SER	N-CA-C	5.58	117.63	109.71
1	t	224	PRO	N-CD-CG	5.58	111.57	103.20
1	v	48	THR	N-CA-CB	5.58	116.80	109.55
1	g8	226	HIS	CB-CG-CD2	-5.58	123.95	131.20
1	gb	191	VAL	CB-CA-C	-5.58	104.73	112.04
1	gj	91	ILE	CA-C-O	-5.58	114.64	120.27
1	gk	79	GLU	N-CA-C	5.58	117.36	111.28
1	gl	132	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	gq	110	THR	OG1-CB-CG2	-5.58	98.15	109.30
1	gt	82	ARG	CA-C-N	5.58	128.01	120.65
1	gt	82	ARG	C-N-CA	5.58	128.01	120.65
1	gV	151	LEU	CA-C-O	5.58	126.24	119.38
1	h0	55	MET	N-CA-C	5.58	117.36	111.28
1	h5	180	GLU	N-CA-C	5.58	117.04	111.07
1	hf	199	LYS	CA-C-N	5.58	127.75	120.28
1	hf	199	LYS	C-N-CA	5.58	127.75	120.28
1	hj	139	ASN	OD1-CG-ND2	5.58	128.18	122.60
1	hj	206	GLY	CA-C-N	5.58	124.93	118.85
1	hj	206	GLY	C-N-CA	5.58	124.93	118.85
1	hD	82	ARG	N-CA-CB	5.58	118.89	110.30
1	hR	229	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	1M	55	MET	O-C-N	-5.58	116.33	122.07
1	hV	62	HIS	ND1-CG-CD2	5.58	111.67	106.10
1	hZ	154	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	i5	174	ALA	N-CA-C	5.58	117.16	111.14
1	id	58	THR	O-C-N	-5.58	114.49	122.41
1	il	167	ARG	NH1-CZ-NH2	-5.58	112.05	119.30
1	im	186	THR	CA-C-N	5.58	128.21	120.29
1	im	186	THR	C-N-CA	5.58	128.21	120.29
1	iw	64	ALA	CA-C-N	5.58	127.75	120.28
1	iw	64	ALA	C-N-CA	5.58	127.75	120.28
1	1Q	55	MET	N-CA-C	5.58	117.36	111.28
1	iK	187	GLU	N-CA-C	5.58	117.04	111.07
1	iR	112	GLN	CA-C-N	5.58	128.21	120.29
1	iR	112	GLN	C-N-CA	5.58	128.21	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jk	58	THR	O-C-N	-5.58	115.41	122.27
1	jJ	62	HIS	CB-CG-ND1	-5.58	114.34	122.70
1	k2	58	THR	CA-C-O	5.58	125.18	119.05
1	k9	169	TYR	O-C-N	-5.58	114.86	122.33
1	20	77	ALA	N-CA-C	5.58	117.36	111.28
1	kd	228	ALA	N-CA-C	5.58	118.08	111.33
1	kw	184	TRP	N-CA-C	5.58	117.36	111.28
1	ky	67	GLN	N-CA-CB	5.58	118.32	110.12
1	kB	86	VAL	CB-CA-C	5.58	118.84	110.98
1	23	188	THR	N-CA-CB	5.58	118.31	110.12
1	kM	82	ARG	NH1-CZ-NH2	5.58	126.55	119.30
1	24	207	PRO	N-CA-C	-5.58	106.43	114.18
1	kY	43	LEU	CA-C-O	-5.58	114.64	120.55
1	27	124	ILE	N-CA-C	5.58	113.57	107.60
1	li	124	ILE	N-CA-C	5.58	113.39	107.76
1	lq	162	ARG	CD-NE-CZ	5.58	132.21	124.40
1	lt	62	HIS	CA-C-N	5.58	127.75	120.28
1	lt	62	HIS	C-N-CA	5.58	127.75	120.28
1	ly	73	ILE	N-CA-C	5.58	115.77	110.42
1	lA	120	HIS	O-C-N	-5.58	116.28	122.86
1	lK	196	PRO	CA-C-N	5.58	130.06	121.19
1	lK	196	PRO	C-N-CA	5.58	130.06	121.19
1	2j	182	LYS	O-C-N	-5.58	116.21	122.12
1	2o	28	GLU	N-CA-CB	5.58	118.05	109.91
1	2u	120	HIS	ND1-CE1-NE2	5.58	113.97	108.40
1	2B	149	SER	O-C-N	-5.58	116.89	123.25
1	2G	204	ALA	CA-C-N	5.58	127.75	120.28
1	2G	204	ALA	C-N-CA	5.58	127.75	120.28
1	2M	212	GLU	N-CA-C	5.58	117.36	111.28
1	2W	226	HIS	CA-C-N	5.58	131.54	121.06
1	2W	226	HIS	C-N-CA	5.58	131.54	121.06
1	34	215	MET	CG-SD-CE	-5.58	88.63	100.90
1	37	134	ILE	CA-C-O	5.58	126.76	120.85
1	3r	50	GLN	OE1-CD-NE2	-5.58	117.02	122.60
1	3v	148	THR	CA-CB-CG2	5.58	119.98	110.50
1	3H	167	ARG	CA-C-N	5.58	128.54	120.79
1	3H	167	ARG	C-N-CA	5.58	128.54	120.79
1	3V	229	ARG	NE-CZ-NH2	5.58	124.22	119.20
1	4c	123	PRO	O-C-N	-5.58	116.09	123.01
1	4z	143	ARG	NE-CZ-NH1	5.58	127.08	121.50
1	4M	96	MET	O-C-N	-5.58	115.91	123.10
1	4T	135	ILE	CA-C-O	-5.58	115.26	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	59	130	TYR	CA-C-N	5.58	128.21	120.29
1	59	130	TYR	C-N-CA	5.58	128.21	120.29
1	5y	40	PHE	CB-CA-C	5.58	120.04	110.79
1	5H	229	ARG	O-C-N	-5.58	116.28	122.91
1	5M	138	LEU	N-CA-CB	5.58	118.25	109.94
1	67	190	LEU	CA-C-O	5.58	126.46	120.55
1	6i	200	THR	CA-C-O	-5.58	114.64	120.55
1	6w	154	ARG	N-CA-C	5.58	118.73	110.48
1	6y	16	SER	CA-C-O	-5.58	114.51	119.75
1	6C	111	LEU	N-CA-C	5.58	118.89	111.75
1	6I	121	ASN	N-CA-C	5.58	119.21	108.45
1	6R	211	LEU	CA-C-O	5.58	126.37	119.79
1	6Z	80	TRP	CB-CA-C	5.58	119.63	110.88
1	74	5	ASN	CB-CA-C	5.58	121.52	110.42
1	7c	84	HIS	CA-C-N	-5.58	113.83	120.13
1	7c	84	HIS	C-N-CA	-5.58	113.83	120.13
1	7k	16	SER	CA-C-O	-5.58	114.23	120.25
1	7C	198	CYS	CA-C-O	-5.58	114.51	120.42
1	7G	202	LEU	N-CA-C	5.58	117.44	111.36
1	7H	47	ALA	N-CA-C	5.58	118.32	109.96
1	7I	229	ARG	CA-C-O	5.58	126.25	119.11
1	7U	100	ARG	N-CA-C	-5.58	102.27	110.52
1	7Z	129	ILE	CA-C-N	5.58	130.16	120.68
1	7Z	129	ILE	C-N-CA	5.58	130.16	120.68
1	85	132	ARG	N-CA-C	-5.58	105.10	111.07
1	86	72	THR	O-C-N	-5.58	116.21	122.12
1	8g	183	ASN	OD1-CG-ND2	-5.58	117.03	122.60
1	8h	98	GLU	CA-C-O	-5.58	114.23	120.25
1	8l	40	PHE	CA-C-O	-5.58	114.97	120.82
1	8t	202	LEU	CA-C-N	5.58	127.75	120.28
1	8t	202	LEU	C-N-CA	5.58	127.75	120.28
1	8w	148	THR	O-C-N	-5.58	116.97	123.27
1	8M	39	MET	CA-C-N	5.58	127.69	120.44
1	8M	39	MET	C-N-CA	5.58	127.69	120.44
1	8N	116	GLY	CA-C-N	5.58	127.75	120.28
1	8N	116	GLY	C-N-CA	5.58	127.75	120.28
1	8X	36	VAL	CA-C-O	5.58	127.08	121.17
1	92	86	VAL	CA-CB-CG2	-5.58	100.92	110.40
1	9K	16	SER	N-CA-C	5.58	116.91	109.83
1	9O	16	SER	N-CA-CB	-5.58	101.97	110.11
1	9T	64	ALA	N-CA-C	5.58	117.04	111.07
1	9V	87	HIS	CE1-NE2-CD2	-5.58	103.42	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9X	183	ASN	CA-CB-CG	-5.58	107.02	112.60
1	a9	81	ASP	CA-C-N	5.58	127.75	120.28
1	a9	81	ASP	C-N-CA	5.58	127.75	120.28
1	ai	38	PRO	N-CA-CB	5.58	109.43	103.52
1	ai	141	ILE	N-CA-C	5.58	115.77	110.42
1	ay	66	MET	N-CA-C	5.58	117.36	111.28
1	aF	2	ILE	CA-C-N	5.58	129.81	122.51
1	aF	2	ILE	C-N-CA	5.58	129.81	122.51
1	aJ	107	THR	N-CA-CB	5.58	118.61	110.47
1	aL	216	THR	N-CA-C	5.58	119.80	112.89
1	aR	223	GLY	CA-C-N	5.58	126.81	119.84
1	aR	223	GLY	C-N-CA	5.58	126.81	119.84
1	aX	205	LEU	CA-C-O	5.58	125.76	119.18
1	b9	90	PRO	CA-C-O	-5.58	115.06	121.36
1	bb	82	ARG	CA-C-N	5.58	128.78	120.31
1	bb	82	ARG	C-N-CA	5.58	128.78	120.31
1	bi	45	GLU	CA-C-O	-5.58	114.78	120.80
1	bk	37	ILE	N-CA-CB	5.58	114.80	110.45
1	bn	36	VAL	O-C-N	-5.58	116.46	121.87
1	bJ	117	TRP	N-CA-C	5.58	119.25	112.23
1	bW	12	HIS	N-CA-C	5.58	118.66	110.30
1	1c	16	SER	N-CA-C	5.58	119.53	109.44
1	c7	102	SER	O-C-N	-5.58	114.96	122.43
1	cb	95	GLN	CB-CA-C	-5.58	100.33	109.53
1	1e	97	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	cV	37	ILE	O-C-N	-5.58	116.11	120.07
1	cX	200	THR	CA-C-O	-5.58	114.64	120.55
1	d1	125	PRO	CA-C-N	5.58	129.28	120.47
1	d1	125	PRO	C-N-CA	5.58	129.28	120.47
1	d3	154	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	da	202	LEU	CA-C-N	5.58	128.21	120.29
1	da	202	LEU	C-N-CA	5.58	128.21	120.29
1	dc	171	THR	N-CA-CB	5.58	118.09	110.01
1	1l	124	ILE	O-C-N	-5.58	117.86	121.37
1	dy	66	MET	N-CA-C	5.58	117.36	111.28
1	dy	97	ARG	NE-CZ-NH2	-5.58	114.18	119.20
1	dH	59	VAL	N-CA-CB	5.58	117.60	110.13
1	dL	5	ASN	CA-C-O	5.58	127.04	120.96
1	dM	194	ALA	N-CA-C	5.58	117.52	110.33
1	dO	209	ALA	O-C-N	-5.58	117.23	123.48
1	dT	27	VAL	CB-CA-C	5.58	119.67	112.14
1	ec	136	LEU	CA-C-N	5.58	126.13	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ec	136	LEU	C-N-CA	5.58	126.13	119.94
1	ei	164	TYR	N-CA-C	5.58	117.36	111.28
1	ep	119	THR	CA-C-O	5.58	125.87	119.35
1	ep	120	HIS	O-C-N	-5.58	116.66	122.96
1	ey	21	ASN	O-C-N	-5.58	116.33	122.07
1	eD	80	TRP	CE2-CD2-CE3	-5.58	113.22	118.80
1	eI	74	ASN	O-C-N	-5.58	116.33	122.07
1	eJ	66	MET	O-C-N	-5.58	116.21	122.12
1	eM	141	ILE	CA-CB-CG1	5.58	119.88	110.40
1	eO	111	LEU	N-CA-CB	5.58	118.42	110.06
1	fe	37	ILE	CB-CA-C	-5.58	108.44	114.35
1	fl	133	TRP	NE1-CE2-CD2	-5.58	100.15	107.40
1	fq	31	ALA	N-CA-C	5.58	122.68	110.80
1	fu	62	HIS	CA-C-N	5.58	127.75	120.28
1	fu	62	HIS	C-N-CA	5.58	127.75	120.28
1	fG	192	GLN	CA-C-O	-5.58	114.61	120.63
1	1z	14	ALA	N-CA-C	5.58	117.27	110.41
1	fY	55	MET	N-CA-C	5.58	117.04	111.07
1	fZ	39	MET	N-CA-C	5.58	117.36	111.28
1	g1	100	ARG	NH1-CZ-NH2	5.58	126.55	119.30
1	g3	32	PHE	N-CA-C	5.58	120.80	112.94
1	g3	102	SER	N-CA-C	5.58	117.36	111.28
1	1	122	PRO	CA-C-N	5.58	125.77	120.31
1	1	122	PRO	C-N-CA	5.58	125.77	120.31
1	t	63	GLN	CG-CD-NE2	5.58	124.76	116.40
1	z	155	GLN	OE1-CD-NE2	-5.58	117.03	122.60
1	C	221	VAL	N-CA-C	-5.58	100.63	108.27
1	I	21	ASN	CA-CB-CG	5.58	118.18	112.60
1	T	226	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
1	8	151	LEU	N-CA-C	-5.58	106.15	113.17
1	gn	202	LEU	O-C-N	-5.57	115.70	122.22
1	gG	219	GLN	CA-C-N	5.57	125.40	120.10
1	gG	219	GLN	C-N-CA	5.57	125.40	120.10
1	gR	162	ARG	NE-CZ-NH1	-5.57	115.93	121.50
1	gS	26	VAL	CB-CA-C	-5.57	104.75	111.88
1	gT	93	PRO	N-CD-CG	5.57	111.56	103.20
1	gY	142	VAL	N-CA-C	5.57	115.77	110.42
1	h4	80	TRP	N-CA-C	5.57	118.07	111.33
1	ha	182	LYS	N-CA-CB	5.57	118.42	110.06
1	hl	203	LYS	CB-CA-C	-5.57	101.54	110.79
1	hq	84	HIS	CA-C-O	-5.57	113.00	120.64
1	hv	55	MET	O-C-N	-5.57	116.33	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	225	GLY	CA-C-N	5.57	129.17	120.75
1	hz	225	GLY	C-N-CA	5.57	129.17	120.75
1	hJ	184	TRP	CG-CD2-CE3	-5.57	128.33	133.90
1	i6	150	ILE	CA-C-N	5.57	128.31	120.28
1	i6	150	ILE	C-N-CA	5.57	128.31	120.28
1	ii	208	ALA	N-CA-C	5.57	118.93	111.24
1	iC	165	VAL	CA-C-N	5.57	128.01	120.65
1	iC	165	VAL	C-N-CA	5.57	128.01	120.65
1	iE	102	SER	N-CA-CB	-5.57	101.64	110.22
1	iE	120	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	iF	7	GLN	N-CA-C	5.57	119.39	111.92
1	iM	165	VAL	CA-C-N	5.57	127.69	120.44
1	iM	165	VAL	C-N-CA	5.57	127.69	120.44
1	iO	41	SER	CA-C-N	5.57	127.75	120.28
1	iO	41	SER	C-N-CA	5.57	127.75	120.28
1	1S	9	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	iU	58	THR	N-CA-C	5.57	117.35	111.28
1	je	121	ASN	CA-CB-CG	5.57	118.17	112.60
1	jg	20	LEU	N-CA-CB	5.57	118.31	110.12
1	jn	57	ASN	CB-CG-ND2	5.57	124.76	116.40
1	jt	118	MET	CA-CB-CG	-5.57	102.95	114.10
1	jQ	186	THR	N-CA-CB	5.57	118.31	110.12
1	jZ	33	SER	CA-C-N	5.57	126.31	120.12
1	jZ	33	SER	C-N-CA	5.57	126.31	120.12
1	k0	151	LEU	N-CA-C	5.57	117.36	111.28
1	k6	141	ILE	N-CA-C	5.57	116.21	110.36
1	kg	176	GLN	CA-C-N	5.57	129.01	120.82
1	kg	176	GLN	C-N-CA	5.57	129.01	120.82
1	kn	2	ILE	CB-CA-C	5.57	118.84	111.21
1	kE	179	GLN	N-CA-C	5.57	117.80	111.11
1	kF	171	THR	CB-CA-C	5.57	120.33	110.85
1	kL	204	ALA	CA-C-O	5.57	126.46	120.55
1	kP	90	PRO	N-CA-C	5.57	123.95	112.47
1	la	75	GLU	CB-CA-C	-5.57	102.13	110.88
1	lb	188	THR	OG1-CB-CG2	-5.57	98.15	109.30
1	ll	23	TRP	N-CA-C	5.57	117.16	111.14
1	lm	42	ALA	O-C-N	-5.57	116.21	122.12
1	lK	158	LYS	O-C-N	-5.57	115.45	122.19
1	lL	176	GLN	CB-CA-C	-5.57	101.14	110.56
1	2a	40	PHE	N-CA-C	5.57	117.36	111.28
1	lN	136	LEU	N-CA-C	-5.57	105.20	111.28
1	2i	82	ARG	NE-CZ-NH1	-5.57	115.93	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2F	115	ILE	CA-C-N	5.57	126.29	119.99
1	2F	115	ILE	C-N-CA	5.57	126.29	119.99
1	2J	110	THR	CA-C-O	-5.57	115.11	121.58
1	2O	95	GLN	CA-C-N	5.57	131.02	123.11
1	2O	95	GLN	C-N-CA	5.57	131.02	123.11
1	2Y	134	ILE	CB-CA-C	5.57	119.11	111.97
1	36	40	PHE	CA-C-N	5.57	127.75	120.28
1	36	40	PHE	C-N-CA	5.57	127.75	120.28
1	3c	101	GLY	CA-C-O	5.57	126.42	120.40
1	3u	158	LYS	N-CA-C	-5.57	106.37	114.12
1	3w	171	THR	CA-CB-OG1	5.57	117.96	109.60
1	3C	88	ALA	CA-C-N	5.57	130.62	121.87
1	3C	88	ALA	C-N-CA	5.57	130.62	121.87
1	3J	192	GLN	N-CA-CB	5.57	118.24	109.94
1	3M	48	THR	CA-C-O	-5.57	114.43	121.01
1	3P	80	TRP	CA-C-O	5.57	126.86	120.90
1	3Q	38	PRO	CA-C-N	5.57	127.69	120.44
1	3Q	38	PRO	C-N-CA	5.57	127.69	120.44
1	3Q	175	GLU	N-CA-C	5.57	117.49	110.24
1	3Y	66	MET	CG-SD-CE	-5.57	88.64	100.90
1	42	227	LYS	CA-C-O	-5.57	115.64	121.55
1	46	103	ASP	CA-C-N	5.57	129.44	120.30
1	46	103	ASP	C-N-CA	5.57	129.44	120.30
1	4c	103	ASP	CA-C-N	5.57	129.44	120.30
1	4c	103	ASP	C-N-CA	5.57	129.44	120.30
1	4f	216	THR	CA-C-N	5.57	130.29	120.87
1	4f	216	THR	C-N-CA	5.57	130.29	120.87
1	4t	100	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	4u	182	LYS	CB-CA-C	5.57	120.04	110.79
1	4v	210	THR	CA-C-O	-5.57	114.40	120.81
1	4z	15	ILE	CA-C-O	5.57	128.01	120.99
1	4D	175	GLU	CA-C-O	5.57	127.40	121.16
1	4G	96	MET	N-CA-C	5.57	118.53	110.28
1	4N	226	HIS	CA-C-N	5.57	129.17	120.75
1	4N	226	HIS	C-N-CA	5.57	129.17	120.75
1	4W	175	GLU	N-CA-CB	-5.57	101.93	110.12
1	5l	69	LEU	CA-C-N	5.57	128.01	120.38
1	5l	69	LEU	C-N-CA	5.57	128.01	120.38
1	5n	211	LEU	N-CA-C	5.57	117.36	111.28
1	5s	44	SER	N-CA-C	-5.57	105.17	112.41
1	5z	59	VAL	CA-CB-CG1	5.57	119.87	110.40
1	5E	213	GLU	CA-C-O	5.57	126.46	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5I	143	ARG	CA-C-O	5.57	126.46	120.55
1	5P	145	TYR	CA-C-N	5.57	128.14	120.67
1	5P	145	TYR	C-N-CA	5.57	128.14	120.67
1	5V	139	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	6e	126	VAL	CA-CB-CG2	-5.57	100.92	110.40
1	6w	65	ALA	N-CA-CB	5.57	118.09	110.01
1	6B	138	LEU	N-CA-CB	5.57	118.31	110.12
1	6H	193	ASN	O-C-N	-5.57	115.41	122.26
1	6T	66	MET	CA-C-O	-5.57	114.51	120.42
1	7k	37	ILE	CA-C-O	-5.57	114.96	118.69
1	7s	185	MET	CG-SD-CE	-5.57	88.64	100.90
1	7O	7	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	7W	44	SER	N-CA-C	5.57	119.88	112.30
1	7W	119	THR	N-CA-C	-5.57	106.48	113.72
1	7X	138	LEU	O-C-N	-5.57	116.21	122.12
1	8j	76	GLU	N-CA-CB	-5.57	101.64	110.28
1	8j	140	LYS	N-CA-CB	5.57	118.31	110.12
1	8m	76	GLU	N-CA-C	5.57	117.36	111.28
1	8o	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	8x	176	GLN	O-C-N	-5.57	116.97	123.27
1	8K	80	TRP	CB-CG-CD2	-5.57	119.00	126.80
1	8O	134	ILE	CA-C-O	5.57	126.53	120.57
1	8X	177	ALA	N-CA-C	5.57	122.67	110.80
1	9b	166	ASP	CA-CB-CG	5.57	118.17	112.60
1	9k	14	ALA	CB-CA-C	-5.57	100.47	109.72
1	9p	4	GLN	N-CA-CB	5.57	119.91	110.49
1	9y	67	GLN	O-C-N	-5.57	116.21	122.12
1	9y	83	LEU	N-CA-C	5.57	117.43	111.36
1	9I	18	ARG	N-CA-C	5.57	117.36	111.28
1	9I	81	ASP	N-CA-C	5.57	118.29	111.82
1	9M	86	VAL	N-CA-C	5.57	116.13	107.99
1	a2	123	PRO	CB-CA-C	5.57	118.36	111.23
1	a6	164	TYR	N-CA-CB	5.57	118.41	110.16
1	aq	74	ASN	CA-C-N	5.57	128.06	120.54
1	aq	74	ASN	C-N-CA	5.57	128.06	120.54
1	12	61	GLY	CA-C-N	5.57	130.05	122.19
1	12	61	GLY	C-N-CA	5.57	130.05	122.19
1	13	211	LEU	N-CA-C	5.57	117.36	111.28
1	aG	172	LEU	CA-C-N	5.57	128.31	120.28
1	aG	172	LEU	C-N-CA	5.57	128.31	120.28
1	aH	179	GLN	CA-C-N	5.57	128.06	120.54
1	aH	179	GLN	C-N-CA	5.57	128.06	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	39	MET	N-CA-CB	5.57	118.24	109.94
1	bc	68	MET	CA-C-N	5.57	127.75	120.28
1	bc	68	MET	C-N-CA	5.57	127.75	120.28
1	bq	147	PRO	CA-C-N	5.57	128.62	120.71
1	bq	147	PRO	C-N-CA	5.57	128.62	120.71
1	18	169	TYR	N-CA-CB	5.57	118.31	110.12
1	bV	130	TYR	CA-C-O	-5.57	114.97	120.82
1	c4	165	VAL	CA-C-N	5.57	127.69	120.44
1	c4	165	VAL	C-N-CA	5.57	127.69	120.44
1	c8	193	ASN	CA-C-N	5.57	128.78	120.87
1	c8	193	ASN	C-N-CA	5.57	128.78	120.87
1	cl	120	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	co	58	THR	OG1-CB-CG2	-5.57	98.15	109.30
1	cQ	184	TRP	CA-C-O	5.57	126.37	119.79
1	cS	120	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	cX	13	GLN	CB-CG-CD	5.57	122.08	112.60
1	d5	32	PHE	CA-C-O	5.57	127.05	120.58
1	1j	89	GLY	CA-C-N	5.57	126.81	119.84
1	1j	89	GLY	C-N-CA	5.57	126.81	119.84
1	1l	6	LEU	O-C-N	-5.57	116.89	123.25
1	1l	158	LYS	N-CA-C	-5.57	105.69	112.88
1	dC	149	SER	CB-CA-C	-5.57	101.46	110.77
1	dD	122	PRO	N-CD-CG	5.57	110.49	103.80
1	dW	87	HIS	CB-CA-C	5.57	118.67	109.70
1	dY	12	HIS	CA-CB-CG	5.57	119.37	113.80
1	dY	226	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	e0	131	LYS	CA-C-N	5.57	128.06	120.54
1	e0	131	LYS	C-N-CA	5.57	128.06	120.54
1	e3	109	SER	N-CA-C	-5.57	100.69	109.50
1	ed	79	GLU	N-CA-CB	-5.57	101.93	110.12
1	eh	167	ARG	N-CA-C	5.57	117.36	111.28
1	eq	148	THR	O-C-N	-5.57	116.97	123.27
1	er	155	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	eO	227	LYS	N-CA-C	-5.57	100.90	109.76
1	eP	18	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	eP	119	THR	O-C-N	-5.57	115.65	122.34
1	fA	216	THR	CA-C-N	5.57	129.17	120.75
1	fA	216	THR	C-N-CA	5.57	129.17	120.75
1	fB	186	THR	CA-CB-CG2	5.57	119.97	110.50
1	1z	62	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	g2	120	HIS	N-CA-CB	5.57	118.16	109.97
1	d	33	SER	N-CA-C	-5.57	99.39	109.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	214	MET	CA-C-O	-5.57	114.97	120.82
1	q	216	THR	CA-C-N	5.57	128.02	120.44
1	q	216	THR	C-N-CA	5.57	128.02	120.44
1	3	231	LEU	N-CA-CB	5.57	119.98	110.50
1	F	48	THR	CA-CB-OG1	5.57	117.96	109.60
1	M	110	THR	N-CA-CB	5.57	119.43	110.85
1	4	181	VAL	N-CA-CB	5.57	117.07	110.55
1	8	195	ASN	CA-C-N	5.57	126.81	119.84
1	8	195	ASN	C-N-CA	5.57	126.81	119.84
1	gt	20	LEU	N-CA-C	5.57	118.07	111.33
1	gM	150	ILE	O-C-N	-5.57	115.71	122.06
1	h2	65	ALA	O-C-N	-5.57	116.33	122.07
1	ho	143	ARG	NE-CZ-NH2	-5.57	114.19	119.20
1	hp	177	ALA	CA-C-N	5.57	130.29	120.87
1	hp	177	ALA	C-N-CA	5.57	130.29	120.87
1	1J	190	LEU	N-CA-C	5.57	117.35	111.28
1	hT	18	ARG	CA-C-O	5.57	126.67	120.82
1	hW	139	ASN	CA-C-N	5.57	128.06	120.54
1	hW	139	ASN	C-N-CA	5.57	128.06	120.54
1	i3	118	MET	CA-C-O	5.57	126.36	119.79
1	i7	192	GLN	CA-C-O	5.57	126.46	120.55
1	iw	230	VAL	CB-CA-C	-5.57	103.58	111.21
1	iA	179	GLN	O-C-N	-5.57	116.21	122.12
1	iJ	216	THR	CA-C-O	5.57	125.27	119.14
1	iK	195	ASN	CA-C-O	-5.57	115.03	119.71
1	jp	24	VAL	CB-CA-C	5.57	119.66	112.14
1	jy	188	THR	CA-C-O	-5.57	114.97	120.82
1	jD	128	GLU	CA-C-N	5.57	128.09	120.46
1	jD	128	GLU	C-N-CA	5.57	128.09	120.46
1	jQ	29	GLU	O-C-N	-5.57	114.45	122.36
1	jS	161	PHE	O-C-N	-5.57	115.18	122.59
1	jX	68	MET	CA-C-N	5.57	127.68	120.44
1	jX	68	MET	C-N-CA	5.57	127.68	120.44
1	ki	191	VAL	CB-CA-C	-5.57	104.84	111.97
1	km	23	TRP	N-CA-C	5.57	117.16	111.14
1	ko	93	PRO	CA-C-N	5.57	129.98	121.51
1	ko	93	PRO	C-N-CA	5.57	129.98	121.51
1	23	218	CYS	O-C-N	-5.57	115.18	122.59
1	kK	146	SER	CA-C-O	-5.57	113.59	119.50
1	kM	121	ASN	CA-CB-CG	5.57	118.17	112.60
1	kZ	70	LYS	N-CA-C	5.57	117.43	111.36
1	lc	128	GLU	CA-CB-CG	5.57	125.24	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ly	33	SER	O-C-N	-5.57	116.64	121.71
1	2D	65	ALA	N-CA-C	5.57	118.07	111.33
1	3d	78	ALA	CA-C-O	5.57	126.46	120.55
1	3j	197	ASP	N-CA-C	5.57	117.35	111.28
1	42	42	ALA	CA-C-N	5.57	128.20	120.29
1	42	42	ALA	C-N-CA	5.57	128.20	120.29
1	4b	166	ASP	O-C-N	-5.57	115.42	122.27
1	4j	133	TRP	CD2-CE2-CZ2	5.57	127.97	122.40
1	4Q	58	THR	CA-C-N	5.57	127.58	120.56
1	4Q	58	THR	C-N-CA	5.57	127.58	120.56
1	4S	181	VAL	CB-CA-C	5.57	119.10	111.97
1	4Z	76	GLU	CB-CA-C	5.57	120.04	110.79
1	59	230	VAL	O-C-N	-5.57	116.88	122.62
1	5n	97	ARG	CA-C-N	5.57	128.13	120.39
1	5n	97	ARG	C-N-CA	5.57	128.13	120.39
1	5s	28	GLU	N-CA-C	5.57	117.03	111.07
1	5E	58	THR	N-CA-CB	5.57	118.92	110.28
1	6l	35	GLU	CA-C-N	5.57	128.33	120.42
1	6l	35	GLU	C-N-CA	5.57	128.33	120.42
1	6p	103	ASP	N-CA-CB	5.57	118.61	110.47
1	6U	20	LEU	CD1-CG-CD2	-5.57	98.54	110.80
1	6U	73	ILE	N-CA-C	5.57	115.77	110.42
1	6V	30	LYS	CA-C-N	5.57	132.18	121.54
1	6V	30	LYS	C-N-CA	5.57	132.18	121.54
1	7P	100	ARG	NE-CZ-NH2	-5.57	114.19	119.20
1	8f	87	HIS	CA-CB-CG	5.57	119.37	113.80
1	8m	226	HIS	CA-C-O	-5.57	115.08	121.82
1	8o	140	LYS	CA-C-N	5.57	128.33	120.42
1	8o	140	LYS	C-N-CA	5.57	128.33	120.42
1	8A	47	ALA	O-C-N	-5.57	116.08	122.93
1	8E	54	THR	CA-C-O	-5.57	114.97	120.82
1	8M	201	ILE	N-CA-C	5.57	115.77	110.42
1	8T	70	LYS	CA-C-N	5.57	127.75	120.28
1	8T	70	LYS	C-N-CA	5.57	127.75	120.28
1	8T	192	GLN	N-CA-CB	5.57	118.31	110.12
1	92	230	VAL	CB-CA-C	-5.57	104.84	111.97
1	9i	13	GLN	O-C-N	-5.57	117.03	123.33
1	Y	32	PHE	N-CA-CB	5.57	120.08	111.39
1	9X	85	PRO	CA-C-N	5.57	128.66	120.91
1	9X	85	PRO	C-N-CA	5.57	128.66	120.91
1	9Y	176	GLN	CA-C-N	5.57	128.76	120.90
1	9Y	176	GLN	C-N-CA	5.57	128.76	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a6	2	ILE	CB-CA-C	5.57	119.73	111.26
1	ak	124	ILE	N-CA-CB	5.57	118.08	111.23
1	aI	132	ARG	NE-CZ-NH2	-5.57	114.19	119.20
1	aV	167	ARG	CA-C-O	5.57	126.67	120.82
1	15	53	ASN	N-CA-C	5.57	117.43	111.36
1	18	139	ASN	CA-C-O	-5.57	114.64	120.55
1	bu	168	PHE	CA-CB-CG	-5.57	108.23	113.80
1	bv	80	TRP	CA-CB-CG	5.57	124.19	113.60
1	bK	6	LEU	CA-C-O	5.57	127.46	121.44
1	bM	170	LYS	CA-C-N	5.57	128.01	120.38
1	bM	170	LYS	C-N-CA	5.57	128.01	120.38
1	bQ	67	GLN	O-C-N	-5.57	116.07	122.09
1	bT	170	LYS	CA-C-N	5.57	127.68	120.44
1	bT	170	LYS	C-N-CA	5.57	127.68	120.44
1	1b	202	LEU	O-C-N	-5.57	114.83	122.46
1	bY	126	VAL	CA-C-O	5.57	126.32	119.58
1	1c	62	HIS	CB-CA-C	-5.57	103.82	111.73
1	c7	186	THR	O-C-N	-5.57	116.21	122.12
1	ca	101	GLY	CA-C-N	5.57	128.20	120.29
1	ca	101	GLY	C-N-CA	5.57	128.20	120.29
1	cl	120	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	cn	80	TRP	CG-CD1-NE1	-5.57	102.96	110.20
1	cw	214	MET	CG-SD-CE	-5.57	88.64	100.90
1	cJ	31	ALA	CA-C-N	5.57	130.27	122.08
1	cJ	31	ALA	C-N-CA	5.57	130.27	122.08
1	cT	129	ILE	N-CA-C	-5.57	105.07	110.42
1	cW	199	LYS	CA-C-N	5.57	128.02	120.44
1	cW	199	LYS	C-N-CA	5.57	128.02	120.44
1	cX	210	THR	CA-C-O	-5.57	115.64	121.99
1	dz	26	VAL	O-C-N	-5.57	116.09	121.83
1	dL	36	VAL	N-CA-CB	5.57	117.44	110.47
1	dQ	152	ASP	CA-C-N	5.57	128.04	120.63
1	dQ	152	ASP	C-N-CA	5.57	128.04	120.63
1	dW	98	GLU	CA-C-N	5.57	126.44	119.98
1	dW	98	GLU	C-N-CA	5.57	126.44	119.98
1	1u	13	GLN	CB-CG-CD	5.57	122.07	112.60
1	f7	120	HIS	CA-C-O	5.57	128.48	120.51
1	fv	175	GLU	N-CA-CB	5.57	118.76	110.29
1	fz	54	THR	CA-C-O	-5.57	114.97	120.82
1	fO	62	HIS	CB-CG-ND1	5.57	131.06	122.70
1	d	121	ASN	CA-C-O	-5.57	114.63	120.09
1	p	95	GLN	O-C-N	-5.57	116.87	123.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	141	ILE	CB-CA-C	5.57	119.01	111.88
1	gc	39	MET	N-CA-C	5.57	117.03	111.07
1	gc	168	PHE	CA-CB-CG	5.57	119.37	113.80
1	ge	26	VAL	O-C-N	-5.57	116.47	121.87
1	gg	19	THR	CA-C-N	5.57	127.68	120.44
1	gg	19	THR	C-N-CA	5.57	127.68	120.44
1	gg	146	SER	CA-C-O	-5.57	115.03	119.71
1	gh	44	SER	N-CA-CB	5.57	118.55	110.47
1	gu	114	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	gy	182	LYS	N-CA-C	5.57	117.03	111.07
1	gI	84	HIS	CA-C-N	5.57	126.80	119.84
1	gI	84	HIS	C-N-CA	5.57	126.80	119.84
1	gO	57	ASN	CA-C-O	-5.57	114.52	120.42
1	gZ	163	ASP	N-CA-C	-5.57	104.84	111.69
1	h7	138	LEU	CA-C-N	5.57	127.68	120.44
1	h7	138	LEU	C-N-CA	5.57	127.68	120.44
1	hg	131	LYS	O-C-N	5.57	127.81	122.07
1	1J	92	GLU	N-CA-C	5.57	116.72	109.64
1	hA	193	ASN	CA-CB-CG	-5.57	107.03	112.60
1	hF	36	VAL	O-C-N	-5.57	116.47	121.87
1	hN	130	TYR	CA-C-N	5.57	128.01	120.38
1	hN	130	TYR	C-N-CA	5.57	128.01	120.38
1	hR	76	GLU	CA-C-N	5.57	127.74	120.28
1	hR	76	GLU	C-N-CA	5.57	127.74	120.28
1	hT	188	THR	CA-C-N	5.57	127.74	120.28
1	hT	188	THR	C-N-CA	5.57	127.74	120.28
1	hX	43	LEU	CA-C-O	5.57	126.23	119.49
1	ih	73	ILE	N-CA-CB	5.57	118.12	110.54
1	ih	222	GLY	O-C-N	-5.57	116.27	122.68
1	iT	82	ARG	NE-CZ-NH2	-5.57	114.19	119.20
1	j3	36	VAL	CA-C-O	-5.57	115.16	120.95
1	j5	176	GLN	CA-C-N	5.57	129.01	121.05
1	j5	176	GLN	C-N-CA	5.57	129.01	121.05
1	jc	120	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	jc	217	ALA	N-CA-C	5.57	117.16	111.14
1	jo	24	VAL	N-CA-C	5.57	116.30	110.62
1	jv	177	ALA	CA-C-N	5.57	130.28	120.87
1	jv	177	ALA	C-N-CA	5.57	130.28	120.87
1	1W	12	HIS	CA-CB-CG	5.57	119.37	113.80
1	1Y	131	LYS	CA-C-N	5.57	128.20	120.29
1	1Y	131	LYS	C-N-CA	5.57	128.20	120.29
1	jU	100	ARG	CA-C-N	5.57	127.15	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jU	100	ARG	C-N-CA	5.57	127.15	120.13
1	jW	14	ALA	O-C-N	-5.57	116.04	122.95
1	k7	122	PRO	CA-C-N	5.57	125.57	119.89
1	k7	122	PRO	C-N-CA	5.57	125.57	119.89
1	kk	196	PRO	CA-C-N	5.57	128.01	120.44
1	kk	196	PRO	C-N-CA	5.57	128.01	120.44
1	kl	111	LEU	N-CA-C	5.57	120.56	111.37
1	km	166	ASP	CB-CA-C	5.57	119.63	110.88
1	km	169	TYR	CB-CG-CD2	-5.57	112.44	120.80
1	kq	44	SER	CB-CA-C	-5.57	102.05	111.02
1	kq	191	VAL	O-C-N	-5.57	116.09	121.83
1	kv	18	ARG	CA-C-O	5.57	126.45	120.55
1	kx	203	LYS	N-CA-CB	5.57	118.15	110.07
1	kF	81	ASP	O-C-N	-5.57	116.22	122.12
1	kW	183	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	ln	22	ALA	CA-C-N	5.57	128.02	120.44
1	ln	22	ALA	C-N-CA	5.57	128.02	120.44
1	lq	170	LYS	CA-C-O	5.57	126.45	120.55
1	ls	2	ILE	N-CA-CB	-5.57	104.71	110.95
1	29	59	VAL	CB-CA-C	5.57	119.73	111.26
1	lM	183	ASN	N-CA-CB	5.57	118.31	110.12
1	lO	35	GLU	N-CA-CB	-5.57	101.32	110.40
1	lR	86	VAL	N-CA-C	5.57	117.24	109.55
1	2c	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	2k	177	ALA	N-CA-C	5.57	119.00	110.20
1	2n	133	TRP	CB-CG-CD1	5.57	135.26	126.90
1	2L	51	ASP	CA-C-O	-5.57	114.97	120.82
1	2P	200	THR	N-CA-C	5.57	117.03	111.07
1	2T	40	PHE	CA-C-O	5.57	126.86	120.90
1	2W	178	SER	CA-C-N	5.57	127.74	120.28
1	2W	178	SER	C-N-CA	5.57	127.74	120.28
1	2Z	7	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	37	45	GLU	N-CA-CB	-5.57	101.17	109.69
1	3b	56	LEU	CA-C-N	5.57	130.15	120.68
1	3b	56	LEU	C-N-CA	5.57	130.15	120.68
1	3o	154	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	3K	158	LYS	CA-C-N	5.57	129.00	121.20
1	3K	158	LYS	C-N-CA	5.57	129.00	121.20
1	3L	80	TRP	CA-CB-CG	5.57	124.19	113.60
1	4h	214	MET	CA-C-O	5.57	126.38	119.97
1	4w	134	ILE	N-CA-CB	5.57	117.07	110.55
1	4D	84	HIS	CE1-NE2-CD2	-5.57	103.43	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4V	4	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	53	155	GLN	N-CA-CB	5.57	118.19	110.17
1	59	137	GLY	CA-C-N	5.57	127.75	120.28
1	59	137	GLY	C-N-CA	5.57	127.75	120.28
1	5n	66	MET	O-C-N	-5.57	116.22	122.12
1	5o	69	LEU	N-CA-C	5.57	117.03	111.07
1	5w	30	LYS	CA-C-O	5.57	125.33	119.03
1	5y	93	PRO	CA-C-N	5.57	131.04	121.07
1	5y	93	PRO	C-N-CA	5.57	131.04	121.07
1	6g	68	MET	CA-C-O	5.57	126.46	120.55
1	6C	166	ASP	CA-CB-CG	5.57	118.17	112.60
1	6O	9	GLN	O-C-N	-5.57	116.50	122.85
1	6P	32	PHE	CA-C-O	5.57	128.08	121.17
1	72	140	LYS	N-CA-C	5.57	117.03	111.07
1	75	149	SER	CA-C-N	5.57	129.44	120.30
1	75	149	SER	C-N-CA	5.57	129.44	120.30
1	77	3	VAL	CA-C-O	5.57	127.02	121.45
1	7j	82	ARG	CA-C-O	5.57	126.86	120.90
1	7n	12	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	7o	65	ALA	CA-C-N	5.57	128.78	120.31
1	7o	65	ALA	C-N-CA	5.57	128.78	120.31
1	7s	101	GLY	O-C-N	-5.57	116.33	122.24
1	7C	197	ASP	CA-C-N	5.57	128.20	120.29
1	7C	197	ASP	C-N-CA	5.57	128.20	120.29
1	7F	77	ALA	N-CA-CB	-5.57	101.93	110.12
1	7F	120	HIS	CB-CG-CD2	-5.57	123.96	131.20
1	7I	80	TRP	CZ3-CH2-CZ2	-5.57	114.26	121.50
1	7Q	154	ARG	NE-CZ-NH2	5.57	124.21	119.20
1	7R	132	ARG	CD-NE-CZ	-5.57	116.60	124.40
1	7Y	5	ASN	CA-C-N	5.57	128.30	120.28
1	7Y	5	ASN	C-N-CA	5.57	128.30	120.28
1	83	27	VAL	CA-C-N	5.57	128.51	120.38
1	83	27	VAL	C-N-CA	5.57	128.51	120.38
1	8a	231	LEU	N-CA-CB	5.57	119.97	110.50
1	8c	212	GLU	N-CA-C	5.57	117.04	110.97
1	8m	9	GLN	N-CA-C	5.57	122.67	110.80
1	8r	31	ALA	O-C-N	-5.57	115.18	122.59
1	8s	55	MET	CA-C-O	-5.57	114.52	120.42
1	8z	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	8C	229	ARG	N-CA-C	5.57	117.73	110.43
1	8D	153	ILE	CB-CA-C	5.57	119.91	112.22
1	8I	18	ARG	O-C-N	-5.57	115.80	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8I	58	THR	OG1-CB-CG2	-5.57	98.16	109.30
1	8Q	46	GLY	CA-C-N	5.57	128.67	120.82
1	8Q	46	GLY	C-N-CA	5.57	128.67	120.82
1	8T	209	ALA	N-CA-C	5.57	117.93	110.35
1	97	52	LEU	O-C-N	-5.57	114.99	122.23
1	9o	15	ILE	CB-CA-C	5.57	117.25	111.23
1	9p	113	GLU	CA-C-N	5.57	127.75	120.28
1	9p	113	GLU	C-N-CA	5.57	127.75	120.28
1	9u	132	ARG	CG-CD-NE	-5.57	99.75	112.00
1	9w	49	PRO	CA-C-N	5.57	128.06	120.54
1	9w	49	PRO	C-N-CA	5.57	128.06	120.54
1	9O	106	GLY	CA-C-O	5.57	125.24	119.00
1	9S	166	ASP	CA-C-N	5.57	127.74	120.28
1	9S	166	ASP	C-N-CA	5.57	127.74	120.28
1	9U	44	SER	O-C-N	-5.57	115.20	122.39
1	9V	188	THR	N-CA-CB	5.57	122.09	111.00
1	a0	25	LYS	N-CA-C	5.57	118.07	111.33
1	a5	154	ARG	CA-C-N	5.57	130.65	122.63
1	a5	154	ARG	C-N-CA	5.57	130.65	122.63
1	a6	67	GLN	O-C-N	-5.57	115.80	122.15
1	ae	30	LYS	N-CA-C	5.57	119.77	112.92
1	an	12	HIS	CB-CG-ND1	5.57	131.06	122.70
1	an	42	ALA	CA-C-N	5.57	128.78	120.31
1	an	42	ALA	C-N-CA	5.57	128.78	120.31
1	ap	95	GLN	CA-C-N	5.57	132.31	122.67
1	ap	95	GLN	C-N-CA	5.57	132.31	122.67
1	aq	140	LYS	CA-C-N	5.57	127.58	120.56
1	aq	140	LYS	C-N-CA	5.57	127.58	120.56
1	av	9	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	aw	202	LEU	N-CA-C	-5.57	105.98	112.89
1	aB	86	VAL	O-C-N	-5.57	116.54	122.61
1	aU	199	LYS	CA-CB-CG	5.57	125.24	114.10
1	aX	68	MET	CA-C-O	5.57	126.38	119.97
1	aY	2	ILE	N-CA-C	5.57	115.88	107.80
1	16	66	MET	O-C-N	-5.57	116.22	122.12
1	b8	111	LEU	O-C-N	-5.57	116.22	122.12
1	bn	114	GLN	CG-CD-NE2	5.57	124.75	116.40
1	bn	196	PRO	CA-C-N	5.57	128.01	120.38
1	bn	196	PRO	C-N-CA	5.57	128.01	120.38
1	bv	13	GLN	N-CA-CB	-5.57	102.00	111.69
1	bz	88	ALA	CA-C-N	5.57	130.62	121.87
1	bz	88	ALA	C-N-CA	5.57	130.62	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bF	111	LEU	CA-C-N	5.57	127.68	120.44
1	bF	111	LEU	C-N-CA	5.57	127.68	120.44
1	1a	23	TRP	CB-CG-CD1	-5.57	118.54	126.90
1	bQ	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	ca	210	THR	O-C-N	-5.57	115.69	122.82
1	cd	224	PRO	CA-C-N	5.57	128.76	121.85
1	cd	224	PRO	C-N-CA	5.57	128.76	121.85
1	ch	62	HIS	N-CA-C	5.57	119.02	111.17
1	ci	111	LEU	CB-CA-C	5.57	120.04	110.79
1	cl	47	ALA	N-CA-C	5.57	118.52	110.28
1	cp	230	VAL	N-CA-C	5.57	116.12	110.05
1	cA	96	MET	CA-C-O	5.57	126.32	120.36
1	cH	189	LEU	N-CA-C	5.57	118.07	111.33
1	cO	52	LEU	CA-C-N	5.57	128.01	120.38
1	cO	52	LEU	C-N-CA	5.57	128.01	120.38
1	cU	214	MET	N-CA-C	5.57	117.03	111.07
1	d7	43	LEU	CA-C-O	5.57	126.22	119.31
1	da	91	ILE	CB-CA-C	5.57	118.39	111.15
1	df	60	GLY	CA-C-N	5.57	129.63	121.67
1	df	60	GLY	C-N-CA	5.57	129.63	121.67
1	dG	4	GLN	N-CA-C	5.57	118.36	110.50
1	dH	155	GLN	CB-CA-C	5.57	118.59	109.90
1	dM	129	ILE	N-CA-CB	5.57	116.47	110.62
1	dO	79	GLU	N-CA-C	5.57	117.35	111.28
1	dX	58	THR	N-CA-C	-5.57	106.15	113.17
1	e3	3	VAL	CA-C-N	5.57	132.18	121.54
1	e3	3	VAL	C-N-CA	5.57	132.18	121.54
1	e8	59	VAL	CA-C-O	5.57	126.49	120.47
1	eh	167	ARG	CA-C-N	5.57	130.05	121.19
1	eh	167	ARG	C-N-CA	5.57	130.05	121.19
1	ep	143	ARG	N-CA-CB	5.57	118.41	110.16
1	es	31	ALA	CA-C-O	-5.57	112.54	120.51
1	ew	191	VAL	CA-C-N	5.57	128.01	120.38
1	ew	191	VAL	C-N-CA	5.57	128.01	120.38
1	ez	102	SER	CA-C-N	5.57	127.75	120.28
1	ez	102	SER	C-N-CA	5.57	127.75	120.28
1	eC	88	ALA	N-CA-C	-5.57	105.08	112.94
1	eG	47	ALA	N-CA-C	5.57	119.00	110.20
1	eX	111	LEU	CA-C-N	5.57	127.75	120.28
1	eX	111	LEU	C-N-CA	5.57	127.75	120.28
1	f1	198	CYS	CA-C-N	5.57	128.06	120.54
1	f1	198	CYS	C-N-CA	5.57	128.06	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fa	196	PRO	N-CA-C	5.57	121.89	113.81
1	fe	154	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	fX	174	ALA	O-C-N	5.57	127.81	122.07
1	g6	139	ASN	CA-CB-CG	5.57	118.17	112.60
1	0	26	VAL	N-CA-CB	5.57	117.70	110.57
1	c	140	LYS	CA-C-N	5.57	127.58	120.56
1	c	140	LYS	C-N-CA	5.57	127.58	120.56
1	1	47	ALA	O-C-N	-5.57	116.04	122.95
1	k	196	PRO	N-CA-CB	5.57	109.10	103.25
1	p	126	VAL	N-CA-C	5.57	116.30	110.62
1	I	205	LEU	CA-C-N	5.57	130.62	121.87
1	I	205	LEU	C-N-CA	5.57	130.62	121.87
1	N	195	ASN	CA-CB-CG	5.57	118.17	112.60
1	N	196	PRO	O-C-N	-5.57	115.12	122.64
1	7	116	GLY	CA-C-N	5.57	127.74	120.28
1	7	116	GLY	C-N-CA	5.57	127.74	120.28
1	gh	184	TRP	CB-CG-CD2	5.57	134.60	126.80
1	gr	117	TRP	N-CA-C	5.57	117.35	111.28
1	gL	65	ALA	N-CA-C	5.57	117.35	111.28
1	gQ	226	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	h7	206	GLY	CA-C-O	-5.57	113.56	121.52
1	hi	53	ASN	OD1-CG-ND2	5.57	128.17	122.60
1	hv	138	LEU	CA-C-N	5.57	127.74	120.28
1	hv	138	LEU	C-N-CA	5.57	127.74	120.28
1	1M	62	HIS	CA-CB-CG	-5.57	108.23	113.80
1	i2	101	GLY	CA-C-N	5.57	130.02	120.72
1	i2	101	GLY	C-N-CA	5.57	130.02	120.72
1	ib	95	GLN	CB-CA-C	5.57	120.98	110.62
1	1Q	90	PRO	CB-CA-C	5.57	118.95	111.71
1	1S	35	GLU	CB-CG-CD	5.57	122.07	112.60
1	iW	132	ARG	CA-C-O	5.57	126.45	120.55
1	iZ	112	GLN	N-CA-C	5.57	118.07	111.33
1	j1	167	ARG	CA-C-N	5.57	128.06	120.54
1	j1	167	ARG	C-N-CA	5.57	128.06	120.54
1	jj	191	VAL	CB-CA-C	-5.57	104.84	111.97
1	jP	21	ASN	CA-C-O	5.57	126.32	120.42
1	jT	48	THR	CA-C-O	-5.57	113.27	121.46
1	kd	48	THR	CA-C-N	5.57	126.80	119.84
1	kd	48	THR	C-N-CA	5.57	126.80	119.84
1	ko	210	THR	N-CA-CB	5.57	118.75	110.29
1	kC	1	PRO	CA-C-N	-5.57	115.91	122.93
1	kC	1	PRO	C-N-CA	-5.57	115.91	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kI	77	ALA	N-CA-CB	-5.57	101.93	110.12
1	l7	48	THR	N-CA-C	-5.57	102.90	110.36
1	ls	187	GLU	O-C-N	-5.57	115.18	122.59
1	lv	117	TRP	CA-CB-CG	-5.57	103.02	113.60
1	2q	149	SER	CA-C-N	5.57	129.43	120.30
1	2q	149	SER	C-N-CA	5.57	129.43	120.30
1	2t	119	THR	OG1-CB-CG2	-5.57	98.16	109.30
1	31	74	ASN	CA-C-N	5.57	128.20	120.29
1	31	74	ASN	C-N-CA	5.57	128.20	120.29
1	3x	114	GLN	O-C-N	-5.57	116.22	122.12
1	3U	66	MET	N-CA-C	5.57	118.07	111.33
1	4l	10	MET	CG-SD-CE	-5.57	88.65	100.90
1	4l	16	SER	CA-C-N	5.57	125.09	119.19
1	4l	16	SER	C-N-CA	5.57	125.09	119.19
1	4p	113	GLU	CB-CG-CD	5.57	122.07	112.60
1	4p	162	ARG	O-C-N	-5.57	115.85	122.20
1	4x	134	ILE	N-CA-CB	5.57	117.06	110.55
1	4C	226	HIS	CA-C-O	5.57	125.86	119.35
1	4J	175	GLU	O-C-N	-5.57	115.50	122.35
1	4R	85	PRO	CA-C-N	5.57	129.53	121.18
1	4R	85	PRO	C-N-CA	5.57	129.53	121.18
1	4R	148	THR	CA-CB-OG1	5.57	117.95	109.60
1	4Z	63	GLN	N-CA-C	5.57	118.28	111.82
1	53	57	ASN	CA-CB-CG	-5.57	107.03	112.60
1	5V	211	LEU	CA-C-O	5.57	126.45	120.55
1	5X	56	LEU	CB-CA-C	-5.57	99.02	110.38
1	5Z	111	LEU	CA-C-N	5.57	129.17	120.82
1	5Z	111	LEU	C-N-CA	5.57	129.17	120.82
1	69	90	PRO	CB-CA-C	5.57	118.99	110.75
1	6c	120	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	7x	192	GLN	N-CA-C	5.57	118.28	111.82
1	81	99	PRO	N-CA-C	5.57	123.94	112.47
1	83	67	GLN	N-CA-C	5.57	118.07	111.33
1	86	76	GLU	CA-C-N	5.57	127.74	120.28
1	86	76	GLU	C-N-CA	5.57	127.74	120.28
1	87	77	ALA	CA-C-N	5.57	127.74	120.28
1	87	77	ALA	C-N-CA	5.57	127.74	120.28
1	89	82	ARG	N-CA-C	5.57	117.35	111.28
1	8u	99	PRO	N-CA-C	5.57	119.93	111.19
1	8O	149	SER	CB-CA-C	-5.57	100.48	109.72
1	8U	87	HIS	CB-CG-ND1	5.57	131.05	122.70
1	8Y	23	TRP	N-CA-C	5.57	117.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Y	215	MET	N-CA-C	5.57	119.92	113.18
1	9a	195	ASN	CA-CB-CG	5.57	118.17	112.60
1	9b	113	GLU	CA-C-N	5.57	127.68	120.44
1	9b	113	GLU	C-N-CA	5.57	127.68	120.44
1	9l	21	ASN	N-CA-C	5.57	117.35	111.28
1	9K	7	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	9L	216	THR	CA-C-O	5.57	126.45	120.55
1	9U	142	VAL	CA-C-N	5.57	128.01	120.38
1	9U	142	VAL	C-N-CA	5.57	128.01	120.38
1	aP	91	ILE	O-C-N	-5.57	116.60	122.95
1	aQ	223	GLY	CA-C-O	-5.57	113.56	121.52
1	16	42	ALA	CA-C-N	5.57	127.68	120.44
1	16	42	ALA	C-N-CA	5.57	127.68	120.44
1	bU	58	THR	CA-C-O	5.57	126.22	119.31
1	ch	184	TRP	CZ3-CH2-CZ2	5.57	128.74	121.50
1	ci	51	ASP	O-C-N	5.57	128.50	122.15
1	cC	117	TRP	N-CA-CB	5.57	118.40	110.16
1	cL	56	LEU	N-CA-C	5.57	117.79	111.11
1	d7	164	TYR	O-C-N	-5.57	116.22	122.12
1	df	6	LEU	N-CA-C	-5.57	101.05	109.85
1	1l	78	ALA	N-CA-C	5.57	117.35	111.28
1	e5	216	THR	CA-C-O	-5.57	114.94	120.90
1	ei	202	LEU	CA-C-O	-5.57	114.52	120.42
1	eB	229	ARG	CA-C-N	5.57	130.19	122.28
1	eB	229	ARG	C-N-CA	5.57	130.19	122.28
1	1t	183	ASN	O-C-N	-5.57	115.80	122.15
1	fe	204	ALA	N-CA-C	5.57	118.28	111.82
1	fw	18	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	fN	30	LYS	CA-C-N	5.57	132.18	121.54
1	fN	30	LYS	C-N-CA	5.57	132.18	121.54
1	fT	4	GLN	CA-C-N	5.57	128.67	120.82
1	fT	4	GLN	C-N-CA	5.57	128.67	120.82
1	1B	29	GLU	N-CA-C	5.57	117.79	111.11
1	b	12	HIS	ND1-CG-CD2	-5.57	100.53	106.10
1	k	33	SER	O-C-N	-5.57	114.47	121.21
1	k	221	VAL	CA-C-O	5.57	127.49	121.36
1	o	189	LEU	O-C-N	-5.57	116.22	122.12
1	x	193	ASN	CA-C-O	5.57	125.86	119.35
1	g9	120	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	gc	22	ALA	O-C-N	-5.57	116.22	122.12
1	gs	175	GLU	CA-C-N	5.57	131.28	122.60
1	gs	175	GLU	C-N-CA	5.57	131.28	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gz	179	GLN	N-CA-C	5.57	117.35	111.28
1	gz	226	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	1E	23	TRP	CA-C-N	5.57	127.58	120.56
1	1E	23	TRP	C-N-CA	5.57	127.58	120.56
1	gD	162	ARG	CA-CB-CG	5.57	125.23	114.10
1	gN	132	ARG	N-CA-C	5.57	117.35	111.28
1	hh	12	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	hk	95	GLN	CG-CD-NE2	5.57	124.75	116.40
1	hk	193	ASN	CA-C-N	5.57	129.00	120.82
1	hk	193	ASN	C-N-CA	5.57	129.00	120.82
1	ht	201	ILE	O-C-N	-5.57	116.47	121.87
1	hu	58	THR	CA-CB-OG1	5.57	117.95	109.60
1	hv	36	VAL	N-CA-C	5.57	118.34	112.83
1	hB	3	VAL	CA-C-N	5.57	130.85	123.00
1	hB	3	VAL	C-N-CA	5.57	130.85	123.00
1	hB	19	THR	CA-C-N	5.57	128.01	120.44
1	hB	19	THR	C-N-CA	5.57	128.01	120.44
1	hG	67	GLN	N-CA-C	5.57	117.35	111.28
1	hN	70	LYS	O-C-N	-5.57	116.34	122.07
1	i4	163	ASP	CA-CB-CG	5.57	118.17	112.60
1	i6	87	HIS	N-CA-C	5.57	119.31	111.52
1	ib	79	GLU	CA-C-N	5.57	127.68	120.44
1	ib	79	GLU	C-N-CA	5.57	127.68	120.44
1	ig	227	LYS	O-C-N	-5.57	116.10	122.89
1	io	120	HIS	CA-CB-CG	5.57	119.37	113.80
1	ix	121	ASN	CA-CB-CG	5.57	118.17	112.60
1	1Q	98	GLU	CA-C-O	-5.57	115.51	120.19
1	iS	18	ARG	NE-CZ-NH2	5.57	124.21	119.20
1	iT	152	ASP	CA-CB-CG	-5.57	107.03	112.60
1	jd	78	ALA	O-C-N	-5.57	116.33	122.07
1	jl	64	ALA	CA-C-O	5.57	126.45	120.55
1	1V	115	ILE	CA-C-N	5.57	126.12	119.94
1	1V	115	ILE	C-N-CA	5.57	126.12	119.94
1	jx	212	GLU	N-CA-C	5.57	119.17	112.38
1	jJ	115	ILE	N-CA-CB	5.57	118.93	110.58
1	jZ	226	HIS	CA-C-N	5.57	129.26	121.02
1	jZ	226	HIS	C-N-CA	5.57	129.26	121.02
1	k3	118	MET	N-CA-CB	-5.57	101.06	110.41
1	k4	88	ALA	CA-C-N	5.57	130.61	121.87
1	k4	88	ALA	C-N-CA	5.57	130.61	121.87
1	k4	226	HIS	CA-C-N	5.57	129.68	120.94
1	k4	226	HIS	C-N-CA	5.57	129.68	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k5	103	ASP	CA-C-N	5.57	128.09	120.46
1	k5	103	ASP	C-N-CA	5.57	128.09	120.46
1	ke	21	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	ke	190	LEU	N-CA-C	5.57	117.79	111.11
1	kk	10	MET	N-CA-C	5.57	119.31	111.52
1	ks	141	ILE	CA-C-N	5.57	127.58	120.56
1	ks	141	ILE	C-N-CA	5.57	127.58	120.56
1	kt	67	GLN	OE1-CD-NE2	5.57	128.17	122.60
1	kx	59	VAL	O-C-N	-5.57	116.41	122.64
1	kC	40	PHE	N-CA-CB	5.57	118.23	109.94
1	kL	142	VAL	O-C-N	-5.57	116.47	121.87
1	kN	140	LYS	N-CA-CB	5.57	118.31	110.12
1	24	228	ALA	O-C-N	5.57	128.02	122.12
1	kO	142	VAL	CG1-CB-CG2	-5.57	98.55	110.80
1	kR	168	PHE	CB-CG-CD1	-5.57	111.23	120.70
1	kX	96	MET	CA-C-N	5.57	132.17	121.54
1	kX	96	MET	C-N-CA	5.57	132.17	121.54
1	kZ	110	THR	N-CA-CB	5.57	118.83	109.92
1	l6	100	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	27	174	ALA	O-C-N	-5.57	116.20	122.10
1	lj	41	SER	CA-C-O	5.57	126.45	120.55
1	lt	7	GLN	N-CA-C	-5.57	106.53	113.38
1	lt	135	ILE	N-CA-C	5.57	118.01	111.05
1	lE	203	LYS	O-C-N	5.57	127.88	122.09
1	lH	147	PRO	CA-C-N	5.57	128.75	120.95
1	lH	147	PRO	C-N-CA	5.57	128.75	120.95
1	2i	158	LYS	CA-C-O	-5.57	112.69	119.32
1	2z	91	ILE	CB-CA-C	-5.57	104.81	110.93
1	2G	143	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	2N	170	LYS	N-CA-CB	5.57	118.41	110.06
1	2P	5	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	2U	17	PRO	CA-C-N	5.57	128.77	120.31
1	2U	17	PRO	C-N-CA	5.57	128.77	120.31
1	2Z	196	PRO	N-CD-CG	5.57	111.55	103.20
1	31	86	VAL	CA-C-O	5.57	127.20	120.85
1	3e	62	HIS	CB-CA-C	-5.57	103.32	112.06
1	3A	133	TRP	CA-C-N	5.57	127.58	120.56
1	3A	133	TRP	C-N-CA	5.57	127.58	120.56
1	3D	9	GLN	CA-C-O	5.57	126.52	120.12
1	3R	49	PRO	N-CA-CB	5.57	109.45	103.33
1	4a	154	ARG	N-CA-C	-5.57	100.25	108.99
1	4a	178	SER	O-C-N	-5.57	116.02	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4h	211	LEU	O-C-N	-5.57	116.33	122.07
1	4h	226	HIS	CA-CB-CG	-5.57	108.23	113.80
1	4h	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	4s	133	TRP	CB-CG-CD1	5.57	135.25	126.90
1	4F	85	PRO	N-CA-CB	5.57	108.15	103.25
1	4T	115	ILE	CA-C-N	5.57	126.28	119.99
1	4T	115	ILE	C-N-CA	5.57	126.28	119.99
1	5d	136	LEU	N-CA-C	5.57	118.07	111.33
1	5i	178	SER	CA-C-N	5.57	128.30	120.28
1	5i	178	SER	C-N-CA	5.57	128.30	120.28
1	5E	36	VAL	N-CA-CB	5.57	118.93	110.58
1	5K	137	GLY	CA-C-N	5.57	127.68	120.44
1	5K	137	GLY	C-N-CA	5.57	127.68	120.44
1	5L	85	PRO	CA-C-O	-5.57	115.27	121.23
1	5P	214	MET	N-CA-C	5.57	117.35	111.28
1	5Q	110	THR	CA-CB-OG1	5.57	117.95	109.60
1	5W	4	GLN	CA-CB-CG	5.57	125.24	114.10
1	5Y	202	LEU	N-CA-C	5.57	117.35	111.28
1	60	38	PRO	CB-CA-C	5.57	119.81	111.68
1	66	170	LYS	CA-C-O	5.57	126.67	120.82
1	69	56	LEU	CA-C-O	5.57	126.37	119.97
1	6a	213	GLU	N-CA-C	5.57	117.03	111.07
1	6f	191	VAL	CA-C-O	5.57	127.23	121.05
1	6V	41	SER	CA-C-N	5.57	128.00	120.65
1	6V	41	SER	C-N-CA	5.57	128.00	120.65
1	79	30	LYS	CA-CB-CG	5.57	125.23	114.10
1	7i	166	ASP	CA-CB-CG	-5.57	107.03	112.60
1	7l	112	GLN	N-CA-CB	5.57	118.30	110.12
1	7q	73	ILE	CA-C-N	5.57	127.68	120.44
1	7q	73	ILE	C-N-CA	5.57	127.68	120.44
1	7B	128	GLU	CB-CA-C	-5.57	101.39	110.85
1	7I	219	GLN	CA-C-N	5.57	126.12	120.00
1	7I	219	GLN	C-N-CA	5.57	126.12	120.00
1	7Z	162	ARG	O-C-N	-5.57	116.22	122.12
1	80	73	ILE	CA-C-N	5.57	128.30	120.28
1	80	73	ILE	C-N-CA	5.57	128.30	120.28
1	83	23	TRP	N-CA-C	5.57	117.03	111.07
1	89	99	PRO	N-CA-CB	-5.57	98.26	103.27
1	8n	179	GLN	N-CA-C	5.57	118.07	111.33
1	8F	181	VAL	O-C-N	-5.57	116.09	121.83
1	8L	206	GLY	CA-C-N	5.57	125.18	119.56
1	8L	206	GLY	C-N-CA	5.57	125.18	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	94	112	GLN	CG-CD-NE2	5.57	124.75	116.40
1	94	115	ILE	N-CA-CB	5.57	119.86	110.56
1	96	163	ASP	CA-CB-CG	-5.57	107.03	112.60
1	99	207	PRO	N-CA-C	5.57	123.94	112.47
1	9l	124	ILE	CA-C-N	5.57	126.80	119.84
1	9l	124	ILE	C-N-CA	5.57	126.80	119.84
1	9z	29	GLU	CA-C-O	-5.57	112.18	120.42
1	9C	68	MET	N-CA-C	-5.57	105.31	111.71
1	9X	105	ALA	CA-C-O	5.57	126.21	119.31
1	9Y	21	ASN	CA-C-N	5.57	127.74	120.28
1	9Y	21	ASN	C-N-CA	5.57	127.74	120.28
1	9Y	82	ARG	N-CA-C	5.57	117.35	111.28
1	a5	201	ILE	N-CA-C	5.57	116.30	110.62
1	a8	41	SER	N-CA-C	5.57	117.35	111.28
1	10	70	LYS	CA-C-N	5.57	127.74	120.28
1	10	70	LYS	C-N-CA	5.57	127.74	120.28
1	ao	202	LEU	N-CA-CB	-5.57	101.65	110.22
1	aD	167	ARG	CA-C-N	5.57	127.68	120.44
1	aD	167	ARG	C-N-CA	5.57	127.68	120.44
1	aH	103	ASP	CA-C-N	5.57	128.09	120.46
1	aH	103	ASP	C-N-CA	5.57	128.09	120.46
1	aM	179	GLN	O-C-N	-5.57	116.22	122.12
1	aO	193	ASN	O-C-N	-5.57	115.66	122.34
1	b6	195	ASN	CA-CB-CG	5.57	118.17	112.60
1	19	133	TRP	CA-C-N	5.57	127.78	120.60
1	19	133	TRP	C-N-CA	5.57	127.78	120.60
1	bD	112	GLN	N-CA-C	5.57	117.79	111.11
1	bK	24	VAL	CB-CA-C	5.57	119.66	112.14
1	bK	130	TYR	O-C-N	-5.57	116.22	122.12
1	bM	86	VAL	CA-C-O	-5.57	114.42	120.71
1	bX	92	GLU	N-CA-C	5.57	116.90	109.83
1	bZ	117	TRP	CB-CA-C	5.57	120.03	110.79
1	c1	97	ARG	CA-C-O	5.57	127.40	121.11
1	c5	91	ILE	O-C-N	-5.57	117.19	123.20
1	c7	58	THR	CA-CB-OG1	5.57	117.95	109.60
1	c9	6	LEU	N-CA-C	5.57	120.13	113.23
1	ce	56	LEU	CA-C-O	5.57	126.21	119.31
1	cn	173	ARG	O-C-N	-5.57	115.42	122.27
1	cz	198	CYS	N-CA-C	5.57	117.79	111.11
1	cE	185	MET	N-CA-C	5.57	117.35	111.28
1	d4	11	VAL	CA-C-O	5.57	126.53	120.57
1	d8	196	PRO	CA-C-N	5.57	128.20	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	196	PRO	C-N-CA	5.57	128.20	120.29
1	dc	206	GLY	CA-C-N	5.57	126.80	119.84
1	dc	206	GLY	C-N-CA	5.57	126.80	119.84
1	di	163	ASP	CA-CB-CG	5.57	118.17	112.60
1	dk	113	GLU	CA-C-N	5.57	127.74	120.28
1	dk	113	GLU	C-N-CA	5.57	127.74	120.28
1	dm	82	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	dz	36	VAL	N-CA-C	5.57	116.34	110.72
1	dC	7	GLN	N-CA-CB	5.57	118.73	109.60
1	dC	27	VAL	N-CA-C	5.57	116.30	110.62
1	dE	113	GLU	CA-C-N	5.57	127.68	120.44
1	dE	113	GLU	C-N-CA	5.57	127.68	120.44
1	dJ	153	ILE	CB-CA-C	-5.57	105.22	111.23
1	dL	144	MET	O-C-N	-5.57	115.80	122.15
1	dT	150	ILE	CA-C-O	5.57	126.74	120.95
1	dV	135	ILE	O-C-N	5.57	127.27	121.87
1	e9	119	THR	O-C-N	-5.57	114.15	122.39
1	ef	194	ALA	CA-C-N	5.57	128.58	120.51
1	ef	194	ALA	C-N-CA	5.57	128.58	120.51
1	er	74	ASN	CB-CG-ND2	5.57	124.75	116.40
1	eO	120	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	eT	159	GLU	N-CA-C	5.57	118.45	109.15
1	ff	64	ALA	CA-C-N	5.57	127.74	120.28
1	ff	64	ALA	C-N-CA	5.57	127.74	120.28
1	fp	131	LYS	N-CA-CB	5.57	118.31	110.12
1	fp	132	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	fq	130	TYR	CA-C-N	5.57	127.74	120.28
1	fq	130	TYR	C-N-CA	5.57	127.74	120.28
1	1x	226	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	fx	68	MET	O-C-N	-5.57	114.97	122.43
1	fC	173	ARG	N-CA-C	5.57	118.28	111.82
1	fK	12	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	1z	148	THR	O-C-N	-5.57	116.39	123.24
1	fQ	172	LEU	CA-C-N	5.57	128.19	120.29
1	fQ	172	LEU	C-N-CA	5.57	128.19	120.29
1	fZ	40	PHE	CA-CB-CG	-5.57	108.23	113.80
1	g3	121	ASN	CA-C-O	-5.57	114.20	119.55
1	g3	144	MET	N-CA-C	-5.57	105.29	111.36
1	1B	57	ASN	OD1-CG-ND2	-5.57	117.03	122.60
1	0	27	VAL	CA-CB-CG2	-5.57	100.93	110.40
1	b	158	LYS	CA-C-O	5.57	125.75	119.18
1	m	82	ARG	CA-C-O	5.57	126.02	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	200	THR	CB-CA-C	-5.57	102.14	110.88
1	y	40	PHE	N-CA-C	5.57	117.79	111.11
1	z	223	GLY	CA-C-O	-5.57	113.56	121.52
1	H	38	PRO	CA-C-N	5.57	128.06	120.54
1	H	38	PRO	C-N-CA	5.57	128.06	120.54
1	K	86	VAL	N-CA-C	5.57	116.24	108.89
1	P	63	GLN	N-CA-CB	-5.57	101.92	110.16
1	U	216	THR	CB-CA-C	-5.57	101.39	110.85
1	gk	181	VAL	N-CA-CB	5.57	117.06	110.55
1	gn	192	GLN	OE1-CD-NE2	5.57	128.17	122.60
1	gs	70	LYS	N-CA-CB	5.57	118.30	110.12
1	gz	70	LYS	CA-C-N	5.57	128.29	120.28
1	gz	70	LYS	C-N-CA	5.57	128.29	120.28
1	gA	74	ASN	CA-C-O	5.57	126.45	120.55
1	gD	150	ILE	O-C-N	-5.57	116.25	121.87
1	1F	42	ALA	O-C-N	5.57	128.02	122.12
1	gU	162	ARG	CD-NE-CZ	5.57	132.19	124.40
1	gU	185	MET	N-CA-C	5.57	120.18	113.17
1	h9	226	HIS	CB-CG-CD2	-5.57	123.96	131.20
1	ha	24	VAL	CA-C-O	5.57	126.74	120.95
1	hl	149	SER	N-CA-CB	5.57	119.42	110.85
1	hq	12	HIS	CB-CG-CD2	-5.57	123.97	131.20
1	hq	43	LEU	N-CA-C	5.57	118.87	111.75
1	hK	155	GLN	CA-C-O	-5.57	114.20	120.43
1	hN	208	ALA	CA-C-N	5.57	132.17	121.54
1	hN	208	ALA	C-N-CA	5.57	132.17	121.54
1	hW	20	LEU	CA-C-O	-5.57	114.06	120.24
1	i2	54	THR	N-CA-CB	5.57	118.23	109.94
1	i4	188	THR	CA-C-O	5.57	128.47	120.51
1	i5	192	GLN	N-CA-C	5.57	118.06	111.33
1	i7	85	PRO	N-CA-CB	5.57	108.20	103.19
1	i9	62	HIS	CB-CA-C	5.57	118.94	111.82
1	ic	207	PRO	CB-CA-C	-5.57	104.49	111.56
1	1O	43	LEU	N-CA-C	5.57	117.35	111.28
1	is	20	LEU	CA-C-O	-5.57	114.65	120.55
1	iH	110	THR	CB-CA-C	5.57	120.84	109.76
1	iI	196	PRO	N-CA-CB	5.57	109.61	103.26
1	iT	4	GLN	CB-CA-C	5.57	121.49	110.42
1	iZ	178	SER	O-C-N	-5.57	116.70	123.16
1	jp	30	LYS	CA-C-O	5.57	125.02	118.90
1	jp	213	GLU	CA-C-O	-5.57	114.98	120.82
1	jr	180	GLU	N-CA-CB	5.57	118.30	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	js	190	LEU	CA-C-O	5.57	126.43	120.70
1	ju	83	LEU	N-CA-CB	-5.57	101.92	110.16
1	jx	223	GLY	CA-C-O	5.57	129.48	121.52
1	jz	54	THR	CA-C-O	5.57	126.32	120.42
1	jB	47	ALA	N-CA-C	5.57	117.77	109.59
1	jB	117	TRP	CB-CG-CD2	-5.57	119.01	126.80
1	jE	72	THR	N-CA-CB	5.57	118.30	110.12
1	jL	170	LYS	O-C-N	5.57	128.02	122.12
1	jY	54	THR	CA-C-O	5.57	126.45	120.55
1	k1	150	ILE	CA-C-O	5.57	126.74	120.95
1	km	103	ASP	N-CA-C	-5.57	104.84	111.69
1	kw	124	ILE	CA-C-O	5.57	123.48	119.25
1	l6	17	PRO	O-C-N	-5.57	114.73	122.30
1	l9	16	SER	N-CA-C	5.57	118.37	110.24
1	ls	192	GLN	CA-C-O	5.57	126.45	120.55
1	ly	81	ASP	O-C-N	-5.57	116.22	122.12
1	29	144	MET	N-CA-C	5.57	118.11	111.71
1	lC	198	CYS	N-CA-C	5.57	117.79	111.11
1	lI	12	HIS	CA-CB-CG	-5.57	108.23	113.80
1	lM	41	SER	O-C-N	5.57	129.12	122.27
1	lM	101	GLY	O-C-N	-5.57	116.79	122.19
1	lN	23	TRP	N-CA-C	5.57	117.35	111.28
1	2d	141	ILE	O-C-N	5.57	129.80	122.12
1	2m	68	MET	N-CA-CB	5.57	118.41	110.06
1	2v	26	VAL	O-C-N	-5.57	116.46	121.91
1	2F	212	GLU	CA-C-N	5.57	127.67	120.44
1	2F	212	GLU	C-N-CA	5.57	127.67	120.44
1	3c	192	GLN	N-CA-C	5.57	117.03	111.07
1	3k	171	THR	CA-CB-CG2	5.57	119.96	110.50
1	3s	42	ALA	O-C-N	-5.57	115.71	122.22
1	3u	51	ASP	CB-CA-C	-5.57	101.39	110.85
1	44	146	SER	N-CA-C	5.57	117.61	109.71
1	45	118	MET	CG-SD-CE	-5.57	88.66	100.90
1	4b	90	PRO	N-CA-C	5.57	123.94	112.47
1	4x	53	ASN	CA-C-N	5.57	127.74	120.28
1	4x	53	ASN	C-N-CA	5.57	127.74	120.28
1	4A	76	GLU	CB-CG-CD	5.57	122.06	112.60
1	4D	215	MET	CA-C-O	5.57	126.21	119.31
1	4E	226	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	4J	23	TRP	CB-CG-CD2	-5.57	119.01	126.80
1	4M	218	CYS	N-CA-CB	5.57	119.90	110.49
1	4N	84	HIS	CE1-NE2-CD2	-5.57	103.43	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5d	57	ASN	CA-CB-CG	5.57	118.17	112.60
1	5u	206	GLY	O-C-N	-5.57	116.20	121.77
1	5x	62	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	5y	28	GLU	CA-C-O	5.57	126.32	120.42
1	5E	185	MET	CA-C-N	5.57	128.05	120.54
1	5E	185	MET	C-N-CA	5.57	128.05	120.54
1	5H	173	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	5I	7	GLN	CB-CA-C	5.57	119.32	111.86
1	5P	118	MET	N-CA-CB	-5.57	101.92	110.44
1	5S	132	ARG	CA-C-N	5.57	127.74	120.28
1	5S	132	ARG	C-N-CA	5.57	127.74	120.28
1	5W	7	GLN	OE1-CD-NE2	5.57	128.17	122.60
1	62	117	TRP	N-CA-C	5.57	117.15	111.14
1	63	87	HIS	ND1-CE1-NE2	5.57	113.97	108.40
1	67	67	GLN	N-CA-C	5.57	117.35	111.28
1	6f	166	ASP	N-CA-CB	-5.57	101.94	110.01
1	6n	12	HIS	N-CA-C	5.57	117.77	109.59
1	6n	78	ALA	N-CA-C	5.57	117.35	111.28
1	6x	69	LEU	CA-C-N	5.57	127.68	120.44
1	6x	69	LEU	C-N-CA	5.57	127.68	120.44
1	6z	164	TYR	CA-C-N	5.57	129.45	120.55
1	6z	164	TYR	C-N-CA	5.57	129.45	120.55
1	6A	169	TYR	CA-C-N	5.57	127.74	120.28
1	6A	169	TYR	C-N-CA	5.57	127.74	120.28
1	6L	9	GLN	N-CA-CB	5.57	119.42	110.85
1	6X	9	GLN	O-C-N	-5.57	115.96	122.81
1	74	41	SER	CA-C-N	5.57	127.74	120.28
1	74	41	SER	C-N-CA	5.57	127.74	120.28
1	7h	56	LEU	N-CA-C	5.57	117.35	111.28
1	7l	149	SER	N-CA-C	5.57	118.03	110.35
1	7q	176	GLN	CA-C-N	5.57	130.24	121.56
1	7q	176	GLN	C-N-CA	5.57	130.24	121.56
1	7r	100	ARG	CA-C-N	5.57	126.12	120.00
1	7r	100	ARG	C-N-CA	5.57	126.12	120.00
1	7A	107	THR	N-CA-C	5.57	117.43	111.36
1	7G	211	LEU	CA-C-N	5.57	127.74	120.28
1	7G	211	LEU	C-N-CA	5.57	127.74	120.28
1	83	209	ALA	N-CA-C	5.57	118.52	110.28
1	85	170	LYS	N-CA-C	5.57	117.35	111.28
1	8o	27	VAL	CB-CA-C	-5.57	104.63	112.14
1	8B	153	ILE	N-CA-CB	5.57	117.72	111.21
1	8M	199	LYS	N-CA-C	5.57	117.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8V	135	ILE	O-C-N	-5.57	116.47	121.87
1	90	200	THR	CA-CB-CG2	5.57	119.96	110.50
1	91	173	ARG	CA-C-N	5.57	128.19	120.29
1	91	173	ARG	C-N-CA	5.57	128.19	120.29
1	94	26	VAL	CA-C-O	-5.57	115.16	120.95
1	94	84	HIS	CG-CD2-NE2	5.57	112.77	107.20
1	95	45	GLU	N-CA-C	5.57	118.88	110.64
1	99	44	SER	N-CA-CB	5.57	118.96	110.44
1	9d	155	GLN	CA-CB-CG	5.57	125.23	114.10
1	9t	162	ARG	CG-CD-NE	-5.57	99.76	112.00
1	9G	134	ILE	N-CA-C	5.57	116.30	110.62
1	9P	105	ALA	N-CA-C	5.57	119.69	113.01
1	9U	37	ILE	O-C-N	-5.57	114.75	121.10
1	a8	103	ASP	CA-C-N	5.57	127.57	120.56
1	a8	103	ASP	C-N-CA	5.57	127.57	120.56
1	12	172	LEU	CA-C-N	5.57	127.74	120.28
1	12	172	LEU	C-N-CA	5.57	127.74	120.28
1	aF	15	ILE	CA-C-N	5.57	128.22	120.65
1	aF	15	ILE	C-N-CA	5.57	128.22	120.65
1	14	87	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
1	14	140	LYS	O-C-N	5.57	128.02	122.12
1	14	173	ARG	CA-C-O	5.57	126.11	119.10
1	aQ	129	ILE	N-CA-C	-5.57	105.30	110.53
1	aU	121	ASN	CB-CG-OD1	5.57	131.93	120.80
1	aX	180	GLU	CA-C-N	5.57	127.57	120.56
1	aX	180	GLU	C-N-CA	5.57	127.57	120.56
1	b1	51	ASP	CA-CB-CG	-5.57	107.03	112.60
1	b4	26	VAL	N-CA-CB	-5.57	104.04	110.55
1	bb	67	GLN	N-CA-C	5.57	117.43	111.36
1	bk	95	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	bn	5	ASN	CB-CG-ND2	-5.57	108.05	116.40
1	bn	165	VAL	CB-CA-C	-5.57	104.63	112.14
1	bs	183	ASN	O-C-N	-5.57	116.34	122.07
1	bt	115	ILE	CA-C-N	5.57	126.16	119.98
1	bt	115	ILE	C-N-CA	5.57	126.16	119.98
1	bu	210	THR	O-C-N	-5.57	116.45	122.79
1	bL	72	THR	N-CA-CB	5.57	118.30	110.12
1	bW	140	LYS	N-CA-C	5.57	117.35	111.28
1	cn	184	TRP	CE2-CD2-CE3	5.57	124.37	118.80
1	cp	197	ASP	N-CA-C	5.57	118.06	111.33
1	cq	12	HIS	N-CA-CB	5.57	118.18	110.17
1	cz	77	ALA	CA-C-N	5.57	127.74	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cz	77	ALA	C-N-CA	5.57	127.74	120.28
1	cE	173	ARG	NE-CZ-NH1	5.57	127.06	121.50
1	cQ	43	LEU	CB-CA-C	-5.57	100.46	110.37
1	cV	161	PHE	N-CA-C	5.57	117.35	111.28
1	cV	195	ASN	CB-CA-C	5.57	118.36	109.62
1	1k	71	GLU	N-CA-C	5.57	117.35	111.28
1	dv	226	HIS	CE1-NE2-CD2	-5.57	103.44	109.00
1	1l	148	THR	O-C-N	-5.57	116.14	123.21
1	dG	195	ASN	O-C-N	-5.57	115.20	121.43
1	dW	86	VAL	CA-CB-CG2	5.57	119.86	110.40
1	e9	167	ARG	NE-CZ-NH2	-5.57	114.19	119.20
1	1p	176	GLN	CA-C-O	5.57	126.89	120.60
1	ei	139	ASN	O-C-N	-5.57	115.71	122.22
1	eo	11	VAL	CB-CA-C	-5.57	103.45	111.19
1	eA	29	GLU	N-CA-C	5.57	120.19	112.45
1	eO	42	ALA	CA-C-N	5.57	128.00	120.38
1	eO	42	ALA	C-N-CA	5.57	128.00	120.38
1	eR	169	TYR	CA-C-N	5.57	127.74	120.28
1	eR	169	TYR	C-N-CA	5.57	127.74	120.28
1	eS	184	TRP	CA-C-N	5.57	127.74	120.28
1	eS	184	TRP	C-N-CA	5.57	127.74	120.28
1	eY	152	ASP	CA-CB-CG	5.57	118.17	112.60
1	eZ	140	LYS	CB-CA-C	-5.57	102.14	110.88
1	f7	100	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	fh	195	ASN	CA-CB-CG	5.57	118.17	112.60
1	fx	51	ASP	CA-C-N	5.57	127.74	120.28
1	fx	51	ASP	C-N-CA	5.57	127.74	120.28
1	fI	210	THR	N-CA-C	5.57	118.30	110.23
1	fV	216	THR	CA-C-N	5.57	130.86	120.95
1	fV	216	THR	C-N-CA	5.57	130.86	120.95
1	g1	173	ARG	CA-C-N	5.57	127.74	120.28
1	g1	173	ARG	C-N-CA	5.57	127.74	120.28
1	k	217	ALA	N-CA-C	5.57	117.35	111.28
1	D	194	ALA	CA-C-O	5.57	128.40	121.89
1	6	52	LEU	CA-C-O	5.57	126.66	120.82
1	ge	181	VAL	N-CA-C	5.56	116.30	110.62
1	h2	28	GLU	N-CA-C	5.56	117.02	111.07
1	hd	207	PRO	O-C-N	-5.56	114.41	122.37
1	hA	23	TRP	CA-CB-CG	5.56	124.17	113.60
1	hN	66	MET	N-CA-C	5.56	117.42	111.36
1	i7	160	PRO	N-CA-C	5.56	119.96	110.95
1	i9	83	LEU	N-CA-C	-5.56	104.85	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ip	159	GLU	CB-CA-C	5.56	118.22	109.37
1	iW	29	GLU	N-CA-C	-5.56	104.03	112.04
1	jn	23	TRP	O-C-N	-5.56	116.08	122.09
1	1W	21	ASN	CA-C-N	5.56	127.73	120.28
1	1W	21	ASN	C-N-CA	5.56	127.73	120.28
1	kb	204	ALA	N-CA-CB	-5.56	102.00	110.07
1	kc	7	GLN	N-CA-C	5.56	122.65	110.80
1	kg	151	LEU	N-CA-C	5.56	119.33	112.54
1	kv	195	ASN	CA-C-N	5.56	125.92	119.47
1	kv	195	ASN	C-N-CA	5.56	125.92	119.47
1	kH	226	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	kM	204	ALA	O-C-N	-5.56	116.22	122.12
1	25	100	ARG	CA-C-O	5.56	127.85	122.01
1	kZ	46	GLY	CA-C-N	5.56	128.61	120.71
1	kZ	46	GLY	C-N-CA	5.56	128.61	120.71
1	la	141	ILE	O-C-N	-5.56	116.47	121.87
1	ll	212	GLU	N-CA-C	5.56	120.55	111.37
1	lx	115	ILE	CA-C-N	5.56	127.29	120.22
1	lx	115	ILE	C-N-CA	5.56	127.29	120.22
1	lA	124	ILE	N-CA-CB	5.56	117.56	111.61
1	lQ	41	SER	CA-C-O	-5.56	114.98	120.82
1	2l	181	VAL	CA-C-O	-5.56	115.27	121.17
1	2n	200	THR	OG1-CB-CG2	-5.56	98.17	109.30
1	2v	196	PRO	N-CA-C	5.56	123.93	112.47
1	2K	74	ASN	CA-C-N	5.56	128.19	120.29
1	2K	74	ASN	C-N-CA	5.56	128.19	120.29
1	2U	144	MET	N-CA-C	5.56	117.02	111.07
1	3P	198	CYS	N-CA-CB	5.56	118.30	110.12
1	4d	112	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	4t	75	GLU	N-CA-C	5.56	117.02	111.07
1	5u	229	ARG	CG-CD-NE	-5.56	99.76	112.00
1	61	47	ALA	CA-C-O	5.56	127.32	120.92
1	6i	131	LYS	CB-CA-C	5.56	119.61	110.88
1	6v	183	ASN	OD1-CG-ND2	-5.56	117.04	122.60
1	6G	205	LEU	O-C-N	-5.56	115.39	122.34
1	6Z	50	GLN	N-CA-C	5.56	117.34	111.28
1	75	188	THR	CA-C-N	5.56	128.00	120.38
1	75	188	THR	C-N-CA	5.56	128.00	120.38
1	77	97	ARG	N-CA-C	5.56	117.72	110.43
1	7M	23	TRP	O-C-N	5.56	128.02	122.12
1	8h	206	GLY	CA-C-N	-5.56	114.52	120.47
1	8h	206	GLY	C-N-CA	-5.56	114.52	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8w	41	SER	CA-C-N	5.56	128.77	120.31
1	8w	41	SER	C-N-CA	5.56	128.77	120.31
1	8X	76	GLU	CB-CG-CD	5.56	122.06	112.60
1	97	13	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	97	23	TRP	CD2-CE3-CZ3	-5.56	111.37	118.60
1	a2	204	ALA	O-C-N	-5.56	115.81	122.15
1	10	50	GLN	N-CA-CB	-5.56	101.66	110.28
1	as	107	THR	O-C-N	-5.56	115.92	122.32
1	aV	52	LEU	O-C-N	-5.56	115.81	122.15
1	bU	186	THR	O-C-N	-5.56	114.87	122.33
1	c8	135	ILE	CA-C-N	5.56	128.29	120.28
1	c8	135	ILE	C-N-CA	5.56	128.29	120.28
1	cv	207	PRO	CA-C-O	-5.56	115.20	121.43
1	cz	86	VAL	CB-CA-C	-5.56	104.63	112.14
1	cB	146	SER	O-C-N	-5.56	116.23	121.35
1	cJ	33	SER	CB-CA-C	5.56	118.58	109.46
1	cQ	194	ALA	CA-C-O	-5.56	115.07	121.19
1	d2	110	THR	N-CA-CB	5.56	119.48	110.41
1	d7	112	GLN	O-C-N	-5.56	116.22	122.12
1	d9	208	ALA	CA-C-N	5.56	130.03	122.07
1	d9	208	ALA	C-N-CA	5.56	130.03	122.07
1	1j	230	VAL	O-C-N	-5.56	116.59	123.10
1	dH	119	THR	CA-C-O	5.56	125.75	119.18
1	e6	113	GLU	O-C-N	-5.56	116.22	122.12
1	em	195	ASN	O-C-N	-5.56	115.20	121.43
1	f0	5	ASN	OD1-CG-ND2	-5.56	117.04	122.60
1	f5	25	LYS	N-CA-C	5.56	117.34	111.28
1	1w	201	ILE	N-CA-C	-5.56	107.40	112.96
1	fo	10	MET	O-C-N	-5.56	115.19	122.59
1	fF	226	HIS	CA-CB-CG	5.56	119.36	113.80
1	fW	47	ALA	CA-C-N	5.56	129.93	121.03
1	fW	47	ALA	C-N-CA	5.56	129.93	121.03
1	1A	68	MET	O-C-N	-5.56	116.22	122.12
1	g0	134	ILE	N-CA-C	5.56	115.76	110.53
1	p	191	VAL	O-C-N	-5.56	116.47	121.87
1	2	41	SER	N-CA-C	5.56	118.06	111.33
1	w	230	VAL	N-CA-C	5.56	115.76	110.42
1	y	43	LEU	N-CA-C	5.56	118.11	111.71
1	4	159	GLU	N-CA-CB	5.56	117.24	110.17
1	O	58	THR	N-CA-C	5.56	117.34	111.28
1	gc	99	PRO	CA-C-O	5.56	127.18	121.23
1	gd	74	ASN	CA-C-N	5.56	127.67	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gd	74	ASN	C-N-CA	5.56	127.67	120.44
1	gg	133	TRP	CA-C-N	5.56	127.57	120.56
1	gg	133	TRP	C-N-CA	5.56	127.57	120.56
1	go	162	ARG	N-CA-CB	5.56	118.08	110.01
1	gr	12	HIS	CA-C-N	5.56	130.68	123.00
1	gr	12	HIS	C-N-CA	5.56	130.68	123.00
1	gt	63	GLN	CA-C-O	-5.56	111.82	119.05
1	gB	81	ASP	N-CA-C	5.56	118.27	111.82
1	gF	17	PRO	CA-C-N	5.56	127.67	120.44
1	gF	17	PRO	C-N-CA	5.56	127.67	120.44
1	gS	192	GLN	O-C-N	-5.56	114.88	122.33
1	hg	171	THR	N-CA-CB	5.56	118.39	110.16
1	hk	133	TRP	CB-CG-CD2	-5.56	119.01	126.80
1	ho	70	LYS	CA-C-N	5.56	127.73	120.28
1	ho	70	LYS	C-N-CA	5.56	127.73	120.28
1	hp	100	ARG	O-C-N	-5.56	115.30	122.20
1	ht	148	THR	CA-CB-CG2	5.56	119.95	110.50
1	1L	5	ASN	CA-CB-CG	5.56	118.16	112.60
1	hP	92	GLU	N-CA-C	5.56	122.11	109.81
1	1M	167	ARG	O-C-N	-5.56	116.22	122.12
1	hZ	42	ALA	N-CA-C	5.56	118.06	111.33
1	i3	131	LYS	CA-C-N	5.56	127.73	120.28
1	i3	131	LYS	C-N-CA	5.56	127.73	120.28
1	ib	153	ILE	O-C-N	-5.56	116.62	122.68
1	ij	141	ILE	N-CA-C	5.56	118.00	111.05
1	iq	219	GLN	CA-C-N	5.56	130.46	121.00
1	iq	219	GLN	C-N-CA	5.56	130.46	121.00
1	iE	200	THR	CA-C-O	5.56	126.45	120.55
1	iG	195	ASN	CA-C-N	5.56	125.22	119.05
1	iG	195	ASN	C-N-CA	5.56	125.22	119.05
1	1S	127	GLY	CA-C-N	5.56	127.73	120.28
1	1S	127	GLY	C-N-CA	5.56	127.73	120.28
1	iZ	16	SER	CA-C-N	5.56	126.79	119.84
1	iZ	16	SER	C-N-CA	5.56	126.79	119.84
1	j3	72	THR	N-CA-C	5.56	117.02	111.07
1	jn	224	PRO	CA-C-O	-5.56	115.20	121.43
1	jr	18	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	jP	56	LEU	N-CA-C	5.56	117.02	111.07
1	jQ	37	ILE	N-CA-C	5.56	120.89	108.88
1	jU	226	HIS	CB-CG-CD2	-5.56	123.97	131.20
1	jX	71	GLU	CA-C-O	-5.56	114.98	120.82
1	k7	42	ALA	CA-C-O	5.56	126.37	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ka	9	GLN	N-CA-C	5.56	122.65	110.80
1	kM	40	PHE	CA-C-N	5.56	127.73	120.28
1	kM	40	PHE	C-N-CA	5.56	127.73	120.28
1	lf	86	VAL	O-C-N	-5.56	117.05	123.00
1	lE	111	LEU	CA-C-O	5.56	126.66	120.82
1	lM	193	ASN	CB-CG-OD1	5.56	131.93	120.80
1	lO	165	VAL	CA-C-O	5.56	126.83	121.05
1	2g	167	ARG	CA-C-N	5.56	128.76	120.31
1	2g	167	ARG	C-N-CA	5.56	128.76	120.31
1	2i	181	VAL	CA-CB-CG2	-5.56	100.94	110.40
1	2y	138	LEU	CA-C-N	5.56	127.73	120.28
1	2y	138	LEU	C-N-CA	5.56	127.73	120.28
1	2A	27	VAL	CA-CB-CG2	5.56	119.86	110.40
1	2A	83	LEU	CA-C-O	5.56	126.66	120.82
1	2A	141	ILE	CA-C-O	5.56	126.48	120.47
1	2K	149	SER	O-C-N	-5.56	116.17	122.68
1	3O	65	ALA	CA-C-N	5.56	128.19	120.29
1	3O	65	ALA	C-N-CA	5.56	128.19	120.29
1	3Q	135	ILE	CA-C-O	5.56	126.73	120.95
1	42	117	TRP	N-CA-C	5.56	117.34	111.28
1	42	183	ASN	O-C-N	-5.56	116.34	122.07
1	4c	134	ILE	N-CA-C	5.56	115.76	110.42
1	4f	168	PHE	N-CA-C	5.56	117.02	111.07
1	4o	75	GLU	N-CA-C	5.56	117.15	111.14
1	4s	151	LEU	O-C-N	-5.56	114.78	122.46
1	4t	39	MET	N-CA-CB	5.56	118.39	110.16
1	4u	25	LYS	CA-C-O	-5.56	114.65	120.55
1	4J	112	GLN	CB-CG-CD	5.56	122.06	112.60
1	4L	192	GLN	N-CA-C	5.56	117.34	111.28
1	56	10	MET	O-C-N	-5.56	115.19	122.59
1	5a	155	GLN	N-CA-C	5.56	118.29	110.23
1	5g	68	MET	CB-CA-C	5.56	120.03	110.79
1	5o	90	PRO	N-CA-C	5.56	119.95	111.11
1	5E	126	VAL	O-C-N	-5.56	116.25	121.87
1	5N	119	THR	N-CA-CB	5.56	118.53	110.47
1	60	221	VAL	CG1-CB-CG2	-5.56	98.56	110.80
1	63	187	GLU	N-CA-C	5.56	117.42	111.36
1	6g	227	LYS	O-C-N	-5.56	115.95	122.96
1	6y	165	VAL	N-CA-C	5.56	116.29	110.62
1	6M	68	MET	O-C-N	-5.56	116.22	122.12
1	6U	7	GLN	O-C-N	-5.56	115.39	122.34
1	73	14	ALA	N-CA-C	5.56	117.47	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7j	42	ALA	O-C-N	-5.56	116.34	122.07
1	7j	84	HIS	ND1-CG-CD2	-5.56	100.54	106.10
1	7k	228	ALA	CA-C-O	-5.56	114.97	120.70
1	7p	37	ILE	N-CA-C	5.56	120.90	108.88
1	7w	167	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	7Y	158	LYS	CB-CA-C	-5.56	100.80	110.09
1	83	140	LYS	N-CA-C	5.56	117.34	111.28
1	8g	196	PRO	N-CA-C	5.56	122.04	113.75
1	8k	133	TRP	CB-CG-CD2	-5.56	119.01	126.80
1	8n	124	ILE	O-C-N	5.56	124.88	121.37
1	8n	164	TYR	N-CA-C	5.56	117.34	111.28
1	8n	215	MET	CG-SD-CE	-5.56	88.66	100.90
1	8v	87	HIS	N-CA-C	5.56	119.31	111.52
1	8w	230	VAL	CA-C-O	-5.56	114.58	120.48
1	8A	191	VAL	CA-C-O	5.56	124.54	119.20
1	8F	210	THR	CA-CB-OG1	5.56	117.94	109.60
1	8O	13	GLN	CG-CD-NE2	5.56	124.74	116.40
1	8V	169	TYR	N-CA-CB	5.56	118.08	110.01
1	91	72	THR	CA-C-O	5.56	126.32	120.42
1	91	95	GLN	CG-CD-NE2	5.56	124.74	116.40
1	9n	169	TYR	CA-C-N	5.56	127.73	120.28
1	9n	169	TYR	C-N-CA	5.56	127.73	120.28
1	9q	152	ASP	CA-CB-CG	5.56	118.16	112.60
1	9y	70	LYS	CA-C-N	5.56	128.05	120.54
1	9y	70	LYS	C-N-CA	5.56	128.05	120.54
1	9y	213	GLU	CA-C-N	5.56	127.73	120.28
1	9y	213	GLU	C-N-CA	5.56	127.73	120.28
1	9B	79	GLU	CA-C-N	5.56	127.67	120.44
1	9B	79	GLU	C-N-CA	5.56	127.67	120.44
1	9L	9	GLN	N-CA-CB	5.56	119.94	110.87
1	9N	139	ASN	N-CA-C	5.56	117.34	111.28
1	9V	143	ARG	N-CA-C	5.56	117.42	111.36
1	9X	12	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	a0	198	CYS	O-C-N	-5.56	115.63	122.25
1	a9	62	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	ab	193	ASN	CA-CB-CG	-5.56	107.04	112.60
1	12	9	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	aY	28	GLU	N-CA-C	5.56	117.42	111.36
1	b3	60	GLY	CA-C-N	-5.56	117.48	122.43
1	b3	60	GLY	C-N-CA	-5.56	117.48	122.43
1	b8	143	ARG	NE-CZ-NH2	-5.56	114.19	119.20
1	bh	178	SER	N-CA-C	5.56	118.14	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bl	18	ARG	CG-CD-NE	-5.56	99.76	112.00
1	bq	42	ALA	N-CA-C	5.56	117.42	111.36
1	bA	187	GLU	CA-C-O	-5.56	115.17	120.90
1	bK	4	GLN	O-C-N	-5.56	116.45	122.79
1	bL	172	LEU	CA-C-N	5.56	127.73	120.28
1	bL	172	LEU	C-N-CA	5.56	127.73	120.28
1	bQ	7	GLN	N-CA-CB	-5.56	102.41	110.70
1	1b	9	GLN	CA-CB-CG	5.56	125.22	114.10
1	ce	213	GLU	O-C-N	-5.56	116.22	122.12
1	cg	37	ILE	CA-C-N	5.56	126.79	119.84
1	cg	37	ILE	C-N-CA	5.56	126.79	119.84
1	cg	63	GLN	N-CA-C	5.56	118.11	111.71
1	cg	139	ASN	CA-C-O	-5.56	114.95	120.90
1	cy	128	GLU	CB-CG-CD	5.56	122.06	112.60
1	d4	3	VAL	N-CA-C	5.56	117.64	109.63
1	d6	229	ARG	N-CA-C	5.56	117.08	109.18
1	d7	224	PRO	N-CA-CB	5.56	107.99	103.32
1	dc	76	GLU	N-CA-C	5.56	117.42	111.36
1	dg	12	HIS	N-CA-C	-5.56	100.82	109.72
1	dm	152	ASP	CA-C-O	5.56	126.43	120.70
1	dm	194	ALA	O-C-N	5.56	129.19	122.68
1	1k	101	GLY	CA-C-O	5.56	126.41	120.40
1	dr	3	VAL	CA-CB-CG2	5.56	119.86	110.40
1	dr	67	GLN	CA-C-N	5.56	127.67	120.44
1	dr	67	GLN	C-N-CA	5.56	127.67	120.44
1	dC	120	HIS	O-C-N	-5.56	115.70	122.82
1	dM	26	VAL	CA-C-N	5.56	128.08	120.46
1	dM	26	VAL	C-N-CA	5.56	128.08	120.46
1	dO	70	LYS	CB-CG-CD	5.56	124.09	111.30
1	e1	149	SER	O-C-N	-5.56	115.95	122.96
1	ea	18	ARG	CA-C-O	-5.56	114.66	120.55
1	1p	213	GLU	CB-CG-CD	5.56	122.06	112.60
1	ec	114	GLN	OE1-CD-NE2	5.56	128.16	122.60
1	es	196	PRO	CA-C-N	5.56	128.00	120.44
1	es	196	PRO	C-N-CA	5.56	128.00	120.44
1	1s	154	ARG	N-CA-C	-5.56	100.26	108.99
1	eX	75	GLU	CA-C-O	-5.56	114.65	120.55
1	1v	126	VAL	N-CA-C	5.56	118.00	111.05
1	fa	131	LYS	N-CA-C	5.56	117.34	111.28
1	fc	45	GLU	O-C-N	-5.56	116.71	123.16
1	fd	38	PRO	N-CA-C	5.56	122.04	113.75
1	fn	187	GLU	N-CA-C	5.56	117.42	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	68	MET	CA-CB-CG	5.56	125.22	114.10
1	fE	143	ARG	N-CA-C	5.56	117.34	111.28
1	fG	6	LEU	N-CA-C	-5.56	106.34	113.02
1	fH	213	GLU	N-CA-CB	5.56	118.08	110.01
1	fJ	201	ILE	CA-C-N	5.56	127.73	120.28
1	fJ	201	ILE	C-N-CA	5.56	127.73	120.28
1	1z	74	ASN	N-CA-C	5.56	117.34	111.28
1	fU	145	TYR	CA-CB-CG	5.56	123.91	113.90
1	d	119	THR	N-CA-CB	5.56	118.95	110.44
1	n	211	LEU	CA-C-N	5.56	127.73	120.28
1	n	211	LEU	C-N-CA	5.56	127.73	120.28
1	D	42	ALA	O-C-N	5.56	129.11	122.27
1	F	12	HIS	CB-CA-C	5.56	118.95	109.72
1	M	98	GLU	CA-C-O	5.56	125.00	119.49
1	T	63	GLN	CG-CD-NE2	5.56	124.74	116.40
1	U	52	LEU	CA-C-N	5.56	127.73	120.28
1	U	52	LEU	C-N-CA	5.56	127.73	120.28
1	V	106	GLY	O-C-N	-5.56	116.96	122.41
1	gC	218	CYS	CA-C-O	5.56	128.46	120.51
1	gV	226	HIS	CB-CG-ND1	5.56	131.04	122.70
1	ih	219	GLN	CA-C-O	5.56	127.45	121.44
1	in	36	VAL	CA-C-N	5.56	123.74	120.24
1	in	36	VAL	C-N-CA	5.56	123.74	120.24
1	ix	15	ILE	O-C-N	-5.56	117.00	122.67
1	iF	163	ASP	CA-CB-CG	-5.56	107.04	112.60
1	iS	142	VAL	CA-CB-CG2	-5.56	100.95	110.40
1	j3	123	PRO	CB-CA-C	5.56	118.62	111.56
1	1U	90	PRO	CA-C-O	5.56	127.37	121.03
1	ji	212	GLU	N-CA-C	5.56	117.34	111.28
1	jp	96	MET	O-C-N	5.56	129.79	123.12
1	jx	115	ILE	CA-CB-CG2	5.56	119.95	110.50
1	jL	111	LEU	CA-C-N	5.56	127.73	120.28
1	jL	111	LEU	C-N-CA	5.56	127.73	120.28
1	jO	166	ASP	N-CA-C	5.56	117.02	111.07
1	k5	171	THR	N-CA-C	5.56	118.27	111.82
1	kl	87	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	24	62	HIS	CA-C-N	5.56	128.50	120.38
1	24	62	HIS	C-N-CA	5.56	128.50	120.38
1	26	211	LEU	CA-C-N	5.56	127.73	120.28
1	26	211	LEU	C-N-CA	5.56	127.73	120.28
1	lq	55	MET	CA-C-O	5.56	126.44	120.55
1	lH	41	SER	N-CA-CB	5.56	118.07	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	210	THR	O-C-N	-5.56	116.17	122.68
1	2X	100	ARG	O-C-N	-5.56	114.99	122.94
1	2Y	151	LEU	CB-CA-C	-5.56	100.47	110.37
1	3R	171	THR	CA-C-N	5.56	127.67	120.44
1	3R	171	THR	C-N-CA	5.56	127.67	120.44
1	48	164	TYR	N-CA-CB	-5.56	101.94	110.12
1	59	40	PHE	O-C-N	-5.56	116.34	122.07
1	5h	68	MET	CA-C-N	5.56	127.67	120.44
1	5h	68	MET	C-N-CA	5.56	127.67	120.44
1	5h	195	ASN	OD1-CG-ND2	-5.56	117.04	122.60
1	5q	189	LEU	O-C-N	-5.56	116.34	122.07
1	5x	13	GLN	CA-C-N	5.56	128.61	120.71
1	5x	13	GLN	C-N-CA	5.56	128.61	120.71
1	6s	151	LEU	CA-C-O	5.56	126.31	120.42
1	6T	218	CYS	N-CA-C	5.56	119.25	111.74
1	6V	115	ILE	CA-C-N	5.56	126.27	119.99
1	6V	115	ILE	C-N-CA	5.56	126.27	119.99
1	6W	40	PHE	CA-CB-CG	-5.56	108.24	113.80
1	7C	120	HIS	CA-CB-CG	5.56	119.36	113.80
1	7R	198	CYS	CA-C-N	5.56	127.73	120.28
1	7R	198	CYS	C-N-CA	5.56	127.73	120.28
1	7S	215	MET	N-CA-C	5.56	117.34	111.28
1	81	14	ALA	O-C-N	-5.56	116.68	122.96
1	8E	28	GLU	N-CA-C	5.56	117.78	111.11
1	90	32	PHE	CA-C-O	5.56	126.51	119.95
1	9k	10	MET	N-CA-C	5.56	122.65	110.80
1	9q	177	ALA	N-CA-C	5.56	122.64	110.80
1	9w	115	ILE	CA-C-O	5.56	126.52	120.57
1	9H	119	THR	CA-CB-OG1	5.56	117.94	109.60
1	a6	66	MET	CA-C-O	5.56	126.31	120.42
1	ah	100	ARG	N-CA-C	-5.56	103.19	110.53
1	al	114	GLN	N-CA-C	5.56	117.34	111.28
1	aH	50	GLN	CA-C-N	5.56	128.19	120.29
1	aH	50	GLN	C-N-CA	5.56	128.19	120.29
1	bf	87	HIS	CB-CG-ND1	5.56	131.04	122.70
1	bk	126	VAL	CB-CA-C	-5.56	104.75	112.04
1	bA	24	VAL	O-C-N	-5.56	116.46	121.91
1	c1	67	GLN	N-CA-C	5.56	117.42	111.36
1	cR	29	GLU	O-C-N	-5.56	114.46	122.36
1	cY	68	MET	N-CA-C	5.56	117.34	111.28
1	1i	215	MET	N-CA-CB	5.56	118.30	110.12
1	dn	130	TYR	N-CA-C	-5.56	105.30	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dt	50	GLN	CA-C-N	5.56	128.05	120.54
1	dt	50	GLN	C-N-CA	5.56	128.05	120.54
1	dz	155	GLN	N-CA-CB	5.56	117.85	109.34
1	1n	212	GLU	CA-C-N	5.56	128.05	120.54
1	1n	212	GLU	C-N-CA	5.56	128.05	120.54
1	e9	8	GLY	O-C-N	-5.56	116.65	122.60
1	ek	112	GLN	CB-CG-CD	5.56	122.05	112.60
1	eE	9	GLN	N-CA-C	5.56	118.71	110.48
1	eE	15	ILE	CA-C-N	5.56	128.99	121.20
1	eE	15	ILE	C-N-CA	5.56	128.99	121.20
1	eF	59	VAL	CB-CA-C	5.56	117.81	110.91
1	eT	68	MET	N-CA-C	5.56	117.78	111.11
1	f9	58	THR	CB-CA-C	5.56	119.38	110.09
1	fn	201	ILE	N-CA-C	-5.56	105.10	110.72
1	fr	210	THR	O-C-N	-5.56	114.83	122.23
1	fP	21	ASN	CA-CB-CG	5.56	118.16	112.60
1	i	116	GLY	N-CA-C	5.56	119.37	112.64
1	q	211	LEU	CA-C-O	5.56	126.20	119.31
1	z	25	LYS	CA-C-N	5.56	127.77	120.60
1	z	25	LYS	C-N-CA	5.56	127.77	120.60
1	F	87	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	O	207	PRO	CA-C-N	5.56	132.16	121.54
1	O	207	PRO	C-N-CA	5.56	132.16	121.54
1	W	45	GLU	CA-C-N	5.56	130.82	120.87
1	W	45	GLU	C-N-CA	5.56	130.82	120.87
1	g9	67	GLN	CG-CD-NE2	-5.56	108.06	116.40
1	go	55	MET	O-C-N	-5.56	116.23	122.12
1	1D	183	ASN	CA-C-O	5.56	126.44	120.55
1	gK	134	ILE	CA-C-O	-5.56	115.28	121.17
1	gW	142	VAL	O-C-N	-5.56	116.46	121.91
1	gZ	163	ASP	CA-C-N	5.56	127.67	120.44
1	gZ	163	ASP	C-N-CA	5.56	127.67	120.44
1	he	78	ALA	N-CA-C	5.56	117.02	111.07
1	hm	70	LYS	N-CA-CB	5.56	118.40	110.06
1	hr	100	ARG	NH1-CZ-NH2	5.56	126.53	119.30
1	hu	116	GLY	O-C-N	-5.56	116.84	122.18
1	1K	151	LEU	N-CA-CB	5.56	118.29	110.12
1	hK	23	TRP	N-CA-C	5.56	120.54	111.37
1	hM	119	THR	N-CA-CB	5.56	120.15	110.98
1	hR	213	GLU	CB-CG-CD	-5.56	103.15	112.60
1	hS	5	ASN	CA-C-N	5.56	132.16	121.54
1	hS	5	ASN	C-N-CA	5.56	132.16	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hT	170	LYS	N-CA-CB	5.56	118.29	110.12
1	hY	35	GLU	O-C-N	-5.56	115.19	122.59
1	i4	202	LEU	CA-C-N	5.56	127.73	120.28
1	i4	202	LEU	C-N-CA	5.56	127.73	120.28
1	i7	24	VAL	O-C-N	-5.56	116.10	121.83
1	i9	117	TRP	CB-CG-CD1	-5.56	118.56	126.90
1	ib	126	VAL	CA-C-N	5.56	126.11	120.00
1	ib	126	VAL	C-N-CA	5.56	126.11	120.00
1	il	84	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	1P	37	ILE	O-C-N	-5.56	116.86	120.42
1	iV	22	ALA	CA-C-N	5.56	127.67	120.44
1	iV	22	ALA	C-N-CA	5.56	127.67	120.44
1	iY	128	GLU	N-CA-C	5.56	117.02	111.07
1	j2	177	ALA	O-C-N	-5.56	116.30	122.86
1	j5	62	HIS	ND1-CG-CD2	5.56	111.66	106.10
1	j6	228	ALA	CA-C-O	5.56	126.31	120.42
1	j8	8	GLY	CA-C-N	5.56	129.59	121.31
1	j8	8	GLY	C-N-CA	5.56	129.59	121.31
1	j9	33	SER	CB-CA-C	5.56	117.95	109.56
1	jx	148	THR	CA-C-O	5.56	127.30	121.19
1	jW	156	GLY	N-CA-C	5.56	123.68	112.34
1	jX	15	ILE	N-CA-CB	5.56	117.18	110.95
1	k3	12	HIS	O-C-N	-5.56	116.06	122.95
1	kj	102	SER	N-CA-C	5.56	118.06	111.33
1	kq	28	GLU	CA-C-O	-5.56	114.66	120.55
1	kH	14	ALA	N-CA-C	5.56	118.29	110.23
1	kO	25	LYS	N-CA-C	5.56	117.34	111.28
1	kW	66	MET	N-CA-C	5.56	117.34	111.28
1	l6	208	ALA	CB-CA-C	5.56	120.11	110.94
1	ld	31	ALA	CB-CA-C	-5.56	110.15	116.54
1	ld	167	ARG	NE-CZ-NH2	-5.56	114.20	119.20
1	lg	20	LEU	CA-C-N	5.56	127.73	120.28
1	lg	20	LEU	C-N-CA	5.56	127.73	120.28
1	27	86	VAL	CB-CA-C	5.56	119.25	111.08
1	lx	129	ILE	CA-CB-CG1	5.56	119.85	110.40
1	lH	167	ARG	CA-C-N	5.56	128.00	120.38
1	lH	167	ARG	C-N-CA	5.56	128.00	120.38
1	lI	161	PHE	CA-C-N	5.56	127.67	120.44
1	lI	161	PHE	C-N-CA	5.56	127.67	120.44
1	lK	50	GLN	CB-CG-CD	5.56	122.05	112.60
1	2b	191	VAL	CA-C-O	5.56	126.47	120.47
1	2g	71	GLU	CA-C-O	5.56	126.63	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2p	223	GLY	CA-C-N	5.56	126.79	119.84
1	2p	223	GLY	C-N-CA	5.56	126.79	119.84
1	2s	113	GLU	N-CA-C	5.56	117.34	111.28
1	2P	80	TRP	O-C-N	-5.56	115.81	122.15
1	2P	125	PRO	N-CA-CB	-5.56	97.41	103.25
1	2U	121	ASN	CA-C-O	-5.56	113.76	119.49
1	2Z	61	GLY	CA-C-N	5.56	130.03	122.19
1	2Z	61	GLY	C-N-CA	5.56	130.03	122.19
1	30	87	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	37	56	LEU	CA-C-O	-5.56	114.98	120.82
1	38	83	LEU	O-C-N	-5.56	116.23	122.12
1	3d	219	GLN	CA-CB-CG	5.56	125.22	114.10
1	3f	189	LEU	N-CA-C	5.56	117.78	111.11
1	3o	217	ALA	N-CA-C	5.56	117.71	110.43
1	3N	140	LYS	O-C-N	-5.56	116.31	122.09
1	3P	65	ALA	CA-C-N	5.56	127.73	120.28
1	3P	65	ALA	C-N-CA	5.56	127.73	120.28
1	3P	184	TRP	CB-CG-CD2	-5.56	119.02	126.80
1	3T	195	ASN	N-CA-CB	5.56	117.92	109.75
1	45	42	ALA	CA-C-N	5.56	129.58	120.63
1	45	42	ALA	C-N-CA	5.56	129.58	120.63
1	4b	163	ASP	CA-CB-CG	-5.56	107.04	112.60
1	4t	119	THR	N-CA-C	-5.56	106.08	112.92
1	4y	82	ARG	CD-NE-CZ	5.56	132.18	124.40
1	4z	13	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	4K	110	THR	O-C-N	-5.56	116.51	122.85
1	4T	178	SER	O-C-N	-5.56	115.20	122.59
1	54	125	PRO	CA-C-N	5.56	127.56	120.56
1	54	125	PRO	C-N-CA	5.56	127.56	120.56
1	5a	96	MET	CA-C-N	5.56	128.74	120.90
1	5a	96	MET	C-N-CA	5.56	128.74	120.90
1	5c	212	GLU	CA-C-N	5.56	127.67	120.44
1	5c	212	GLU	C-N-CA	5.56	127.67	120.44
1	5u	130	TYR	CB-CG-CD2	-5.56	112.46	120.80
1	5G	174	ALA	N-CA-C	5.56	118.06	111.33
1	5O	95	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	64	57	ASN	CA-CB-CG	-5.56	107.04	112.60
1	6e	91	ILE	N-CA-CB	5.56	116.59	110.53
1	6f	138	LEU	N-CA-C	5.56	117.34	111.28
1	6f	170	LYS	O-C-N	-5.56	116.23	122.12
1	6j	139	ASN	CA-CB-CG	-5.56	107.04	112.60
1	6o	37	ILE	O-C-N	-5.56	114.76	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6z	95	GLN	O-C-N	-5.56	116.88	123.22
1	6B	26	VAL	CB-CA-C	-5.56	103.25	112.26
1	6C	130	TYR	N-CA-C	5.56	117.34	111.28
1	6U	96	MET	CA-CB-CG	-5.56	102.98	114.10
1	72	69	LEU	O-C-N	-5.56	115.81	122.15
1	7e	58	THR	N-CA-CB	5.56	118.29	110.12
1	7y	205	LEU	N-CA-CB	5.56	118.07	110.01
1	7D	188	THR	CB-CA-C	-5.56	104.15	115.27
1	7M	91	ILE	CA-C-O	5.56	126.65	120.59
1	7N	5	ASN	O-C-N	-5.56	116.39	122.67
1	7P	17	PRO	CA-C-N	5.56	127.73	120.28
1	7P	17	PRO	C-N-CA	5.56	127.73	120.28
1	7P	55	MET	N-CA-C	5.56	117.42	111.36
1	7R	142	VAL	N-CA-C	-5.56	104.77	112.50
1	8c	40	PHE	N-CA-CB	-5.56	101.95	110.12
1	8k	217	ALA	CA-C-N	5.56	130.85	122.68
1	8k	217	ALA	C-N-CA	5.56	130.85	122.68
1	8u	164	TYR	CA-C-N	5.56	128.08	120.46
1	8u	164	TYR	C-N-CA	5.56	128.08	120.46
1	8x	71	GLU	N-CA-CB	5.56	118.29	110.12
1	8x	200	THR	CA-C-N	5.56	127.56	120.56
1	8x	200	THR	C-N-CA	5.56	127.56	120.56
1	8A	198	CYS	CA-C-O	-5.56	114.98	120.82
1	8I	136	LEU	O-C-N	-5.56	116.23	122.12
1	8N	66	MET	CG-SD-CE	-5.56	88.67	100.90
1	8O	69	LEU	N-CA-C	5.56	117.14	111.14
1	99	187	GLU	CA-C-O	5.56	126.11	119.60
1	9d	26	VAL	CA-C-O	5.56	127.22	121.05
1	9e	162	ARG	CG-CD-NE	-5.56	99.77	112.00
1	9t	230	VAL	CA-CB-CG1	5.56	119.85	110.40
1	9I	195	ASN	CA-CB-CG	-5.56	107.04	112.60
1	9P	153	ILE	N-CA-C	5.56	116.18	108.84
1	9U	4	GLN	OE1-CD-NE2	5.56	128.16	122.60
1	a7	6	LEU	N-CA-C	5.56	118.06	111.33
1	ab	101	GLY	CA-C-N	5.56	127.73	120.28
1	ab	101	GLY	C-N-CA	5.56	127.73	120.28
1	aM	140	LYS	CA-C-N	5.56	129.25	120.47
1	aM	140	LYS	C-N-CA	5.56	129.25	120.47
1	aM	166	ASP	CA-C-O	-5.56	114.95	120.90
1	b0	220	GLY	O-C-N	-5.56	116.32	122.55
1	bc	136	LEU	CA-C-O	5.56	126.44	120.55
1	17	197	ASP	CA-C-N	5.56	128.00	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	197	ASP	C-N-CA	5.56	128.00	120.44
1	bq	118	MET	CA-C-O	5.56	126.31	120.42
1	bz	158	LYS	CA-C-O	5.56	126.23	119.78
1	bP	222	GLY	O-C-N	-5.56	116.85	122.19
1	bW	100	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	bW	117	TRP	CB-CG-CD1	5.56	135.24	126.90
1	c0	150	ILE	CA-C-N	5.56	128.00	120.38
1	c0	150	ILE	C-N-CA	5.56	128.00	120.38
1	c2	134	ILE	CA-C-O	-5.56	115.63	121.41
1	c5	133	TRP	CE2-CD2-CE3	5.56	124.36	118.80
1	cd	107	THR	CA-C-O	5.56	125.94	119.32
1	ce	90	PRO	N-CA-CB	-5.56	98.87	102.65
1	cf	109	SER	CA-C-N	5.56	129.67	120.94
1	cf	109	SER	C-N-CA	5.56	129.67	120.94
1	cj	83	LEU	CA-C-O	5.56	125.77	119.27
1	co	80	TRP	O-C-N	-5.56	115.81	122.15
1	cD	86	VAL	CA-C-N	5.56	128.60	120.71
1	cD	86	VAL	C-N-CA	5.56	128.60	120.71
1	cD	143	ARG	N-CA-C	5.56	117.34	111.28
1	cJ	184	TRP	N-CA-C	5.56	117.34	111.28
1	cP	147	PRO	O-C-N	-5.56	115.14	122.64
1	cV	115	ILE	CA-C-N	5.56	126.27	119.99
1	cV	115	ILE	C-N-CA	5.56	126.27	119.99
1	dc	85	PRO	N-CA-C	5.56	119.94	111.15
1	dj	92	GLU	O-C-N	-5.56	117.21	121.55
1	dp	154	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	ds	178	SER	CA-C-N	5.56	127.73	120.28
1	ds	178	SER	C-N-CA	5.56	127.73	120.28
1	dI	8	GLY	O-C-N	-5.56	115.94	122.45
1	dK	164	TYR	N-CA-C	5.56	117.02	111.07
1	dW	161	PHE	N-CA-CB	5.56	118.07	110.01
1	dY	228	ALA	N-CA-C	5.56	117.75	109.25
1	e1	9	GLN	O-C-N	-5.56	115.19	122.59
1	e7	73	ILE	CA-CB-CG1	5.56	119.85	110.40
1	e7	139	ASN	CA-C-N	5.56	128.05	120.54
1	e7	139	ASN	C-N-CA	5.56	128.05	120.54
1	ed	230	VAL	O-C-N	-5.56	117.00	122.67
1	em	17	PRO	N-CA-C	-5.56	106.29	113.57
1	eq	116	GLY	CA-C-O	5.56	126.25	120.80
1	ex	142	VAL	N-CA-C	5.56	116.29	110.62
1	eF	170	LYS	CA-C-N	5.56	127.99	120.65
1	eF	170	LYS	C-N-CA	5.56	127.99	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fg	84	HIS	O-C-N	-5.56	114.08	121.64
1	fu	142	VAL	CA-CB-CG1	5.56	119.85	110.40
1	fy	116	GLY	O-C-N	-5.56	116.85	122.19
1	fz	209	ALA	O-C-N	-5.56	116.68	122.96
1	fE	212	GLU	CA-C-O	5.56	126.66	120.82
1	fF	101	GLY	CA-C-N	5.56	128.18	120.29
1	fF	101	GLY	C-N-CA	5.56	128.18	120.29
1	fO	108	THR	N-CA-C	-5.56	105.81	112.59
1	fU	15	ILE	O-C-N	-5.56	116.74	122.63
1	g6	49	PRO	CA-C-N	5.56	127.67	120.44
1	g6	49	PRO	C-N-CA	5.56	127.67	120.44
1	b	219	GLN	CA-C-N	5.56	129.62	121.67
1	b	219	GLN	C-N-CA	5.56	129.62	121.67
1	e	61	GLY	O-C-N	-5.56	115.94	122.50
1	e	201	ILE	N-CA-C	5.56	115.76	110.42
1	1	61	GLY	O-C-N	5.56	128.88	122.60
1	k	74	ASN	CB-CG-ND2	-5.56	108.06	116.40
1	p	137	GLY	CA-C-N	5.56	127.73	120.28
1	p	137	GLY	C-N-CA	5.56	127.73	120.28
1	r	135	ILE	N-CA-CB	5.56	116.68	110.51
1	s	146	SER	CA-C-N	5.56	126.79	119.84
1	s	146	SER	C-N-CA	5.56	126.79	119.84
1	B	53	ASN	CA-CB-CG	-5.56	107.04	112.60
1	C	129	ILE	N-CA-C	5.56	115.76	110.42
1	E	210	THR	CA-CB-OG1	5.56	117.94	109.60
1	G	162	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	K	41	SER	CA-C-N	5.56	127.73	120.28
1	K	41	SER	C-N-CA	5.56	127.73	120.28
1	L	135	ILE	O-C-N	-5.56	116.10	121.83
1	9	135	ILE	N-CA-C	5.56	116.96	110.62
1	gd	26	VAL	O-C-N	-5.56	116.11	121.83
1	gi	116	GLY	CA-C-N	5.56	127.73	120.28
1	gi	116	GLY	C-N-CA	5.56	127.73	120.28
1	1D	124	ILE	O-C-N	-5.56	115.62	120.96
1	gO	130	TYR	CA-C-N	5.56	127.73	120.28
1	gO	130	TYR	C-N-CA	5.56	127.73	120.28
1	gZ	63	GLN	CA-C-N	5.56	128.00	120.44
1	gZ	63	GLN	C-N-CA	5.56	128.00	120.44
1	he	67	GLN	CA-C-N	5.56	128.18	120.29
1	he	67	GLN	C-N-CA	5.56	128.18	120.29
1	he	208	ALA	CB-CA-C	-5.56	103.69	111.80
1	hx	36	VAL	O-C-N	-5.56	116.11	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	159	GLU	CA-C-N	5.56	125.57	119.90
1	hC	159	GLU	C-N-CA	5.56	125.57	119.90
1	hE	127	GLY	CA-C-N	5.56	127.73	120.28
1	hE	127	GLY	C-N-CA	5.56	127.73	120.28
1	hF	28	GLU	O-C-N	-5.56	116.35	122.07
1	hG	173	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	hN	127	GLY	CA-C-N	5.56	127.73	120.28
1	hN	127	GLY	C-N-CA	5.56	127.73	120.28
1	1M	89	GLY	CA-C-N	5.56	125.56	119.89
1	1M	89	GLY	C-N-CA	5.56	125.56	119.89
1	hU	4	GLN	CB-CA-C	5.56	120.54	111.26
1	hU	12	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	hV	7	GLN	N-CA-C	-5.56	106.27	113.16
1	hW	141	ILE	O-C-N	-5.56	116.11	121.83
1	i2	18	ARG	CA-C-N	5.56	128.18	120.29
1	i2	18	ARG	C-N-CA	5.56	128.18	120.29
1	i3	139	ASN	N-CA-C	5.56	117.34	111.28
1	i6	139	ASN	CA-CB-CG	-5.56	107.04	112.60
1	it	212	GLU	CB-CG-CD	-5.56	103.15	112.60
1	iw	97	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	iz	164	TYR	CB-CA-C	5.56	119.70	110.81
1	iB	182	LYS	N-CA-C	5.56	118.05	111.33
1	iP	104	ILE	O-C-N	-5.56	116.46	121.91
1	1S	118	MET	N-CA-C	5.56	118.27	111.82
1	j2	35	GLU	O-C-N	-5.56	115.04	122.43
1	j4	62	HIS	ND1-CG-CD2	5.56	111.66	106.10
1	j6	47	ALA	N-CA-C	5.56	118.69	109.46
1	jt	86	VAL	CA-CB-CG2	-5.56	100.95	110.40
1	jy	189	LEU	N-CA-CB	-5.56	99.48	110.48
1	jB	171	THR	CA-C-N	5.56	127.73	120.28
1	jB	171	THR	C-N-CA	5.56	127.73	120.28
1	jK	4	GLN	N-CA-C	5.56	122.64	110.80
1	jK	126	VAL	CA-C-N	5.56	126.15	119.98
1	jK	126	VAL	C-N-CA	5.56	126.15	119.98
1	jM	162	ARG	NH1-CZ-NH2	5.56	126.53	119.30
1	1Y	38	PRO	N-CA-CB	5.56	109.09	103.25
1	jT	30	LYS	O-C-N	-5.56	115.64	122.20
1	jV	178	SER	CA-C-O	5.56	126.44	120.38
1	k2	154	ARG	O-C-N	-5.56	115.92	123.15
1	ka	56	LEU	N-CA-CB	-5.56	101.94	110.16
1	kw	3	VAL	O-C-N	-5.56	116.80	122.75
1	kz	92	GLU	O-C-N	5.56	127.65	121.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kX	16	SER	CB-CA-C	5.56	118.14	109.42
1	25	148	THR	N-CA-C	5.56	115.45	108.45
1	l0	136	LEU	CA-C-N	5.56	126.15	119.98
1	l0	136	LEU	C-N-CA	5.56	126.15	119.98
1	26	87	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	lb	204	ALA	N-CA-C	5.56	117.02	111.07
1	ld	184	TRP	O-C-N	-5.56	116.23	122.12
1	lg	46	GLY	O-C-N	-5.56	115.56	122.34
1	lB	191	VAL	N-CA-CB	5.56	118.92	110.58
1	29	171	THR	CA-C-N	5.56	128.18	120.29
1	29	171	THR	C-N-CA	5.56	128.18	120.29
1	2f	78	ALA	CA-C-O	5.56	126.31	120.42
1	2j	84	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	2j	120	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	2x	229	ARG	NE-CZ-NH2	5.56	124.20	119.20
1	2I	158	LYS	CA-C-N	5.56	128.98	121.20
1	2I	158	LYS	C-N-CA	5.56	128.98	121.20
1	2P	136	LEU	CA-C-N	5.56	126.11	119.94
1	2P	136	LEU	C-N-CA	5.56	126.11	119.94
1	3e	156	GLY	O-C-N	-5.56	116.21	121.77
1	3j	51	ASP	CA-CB-CG	-5.56	107.04	112.60
1	3s	195	ASN	N-CA-C	5.56	116.82	109.93
1	3t	33	SER	N-CA-C	-5.56	100.48	109.82
1	3G	47	ALA	CA-C-N	5.56	129.10	120.60
1	3G	47	ALA	C-N-CA	5.56	129.10	120.60
1	3H	16	SER	N-CA-CB	5.56	117.98	110.14
1	3J	122	PRO	CA-C-N	5.56	126.79	119.84
1	3J	122	PRO	C-N-CA	5.56	126.79	119.84
1	3L	177	ALA	N-CA-C	5.56	118.34	110.50
1	3N	225	GLY	CA-C-N	5.56	132.15	121.54
1	3N	225	GLY	C-N-CA	5.56	132.15	121.54
1	4c	70	LYS	N-CA-CB	5.56	118.39	110.16
1	4g	211	LEU	N-CA-CB	5.56	118.29	110.12
1	4D	12	HIS	CB-CG-CD2	-5.56	123.97	131.20
1	4G	117	TRP	CB-CG-CD2	-5.56	119.02	126.80
1	4J	140	LYS	CA-C-N	5.56	128.37	120.53
1	4J	140	LYS	C-N-CA	5.56	128.37	120.53
1	4L	177	ALA	CA-C-O	5.56	127.40	121.45
1	4Q	122	PRO	CA-C-O	-5.56	106.86	120.20
1	4V	26	VAL	CA-C-N	5.56	128.07	120.46
1	4V	26	VAL	C-N-CA	5.56	128.07	120.46
1	4Z	191	VAL	N-CA-C	-5.56	104.51	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	124	ILE	N-CA-CB	-5.56	105.64	111.36
1	53	71	GLU	O-C-N	5.56	127.80	122.07
1	56	76	GLU	N-CA-CB	5.56	118.29	110.12
1	5h	105	ALA	CA-C-O	5.56	125.79	119.18
1	5s	48	THR	N-CA-CB	5.56	118.42	110.03
1	5u	145	TYR	CB-CG-CD1	5.56	129.14	120.80
1	5A	132	ARG	CA-C-N	5.56	127.73	120.28
1	5A	132	ARG	C-N-CA	5.56	127.73	120.28
1	5F	167	ARG	CA-C-N	5.56	128.00	120.44
1	5F	167	ARG	C-N-CA	5.56	128.00	120.44
1	5U	56	LEU	N-CA-CB	5.56	118.22	109.94
1	60	171	THR	CA-C-N	5.56	127.73	120.28
1	60	171	THR	C-N-CA	5.56	127.73	120.28
1	6a	186	THR	O-C-N	-5.56	115.72	122.11
1	6f	107	THR	CA-CB-CG2	5.56	119.95	110.50
1	6f	139	ASN	CB-CA-C	-5.56	102.15	110.88
1	6m	154	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	6t	37	ILE	N-CA-C	5.56	119.02	112.35
1	6y	21	ASN	N-CA-C	5.56	117.02	111.07
1	6T	64	ALA	N-CA-CB	5.56	118.27	109.82
1	6Z	87	HIS	CA-CB-CG	5.56	119.36	113.80
1	70	74	ASN	CA-C-O	5.56	126.44	120.55
1	7g	113	GLU	O-C-N	-5.56	116.09	122.09
1	7h	27	VAL	O-C-N	-5.56	116.46	121.91
1	7t	195	ASN	O-C-N	-5.56	114.93	121.32
1	7w	174	ALA	O-C-N	5.56	128.01	122.12
1	7H	165	VAL	CA-CB-CG2	-5.56	100.95	110.40
1	7R	32	PHE	N-CA-C	5.56	119.06	112.72
1	7T	20	LEU	N-CA-CB	5.56	118.29	110.12
1	7T	160	PRO	CA-C-O	-5.56	115.00	121.95
1	82	82	ARG	CA-C-N	5.56	130.87	121.14
1	82	82	ARG	C-N-CA	5.56	130.87	121.14
1	8p	5	ASN	CA-C-N	5.56	130.71	122.82
1	8p	5	ASN	C-N-CA	5.56	130.71	122.82
1	8p	204	ALA	CA-C-O	5.56	126.31	120.42
1	8u	158	LYS	CA-C-O	5.56	126.39	119.78
1	8x	53	ASN	CA-C-O	5.56	126.20	119.31
1	8F	120	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	8W	211	LEU	N-CA-C	5.56	118.10	111.71
1	8X	114	GLN	CA-C-O	-5.56	114.98	120.82
1	91	62	HIS	O-C-N	-5.56	115.66	122.55
1	9c	82	ARG	N-CA-CB	5.56	118.07	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	152	ASP	CA-C-N	5.56	128.88	120.77
1	9m	152	ASP	C-N-CA	5.56	128.88	120.77
1	9v	19	THR	CA-CB-CG2	5.56	119.95	110.50
1	9A	111	LEU	N-CA-C	5.56	118.10	111.71
1	9A	178	SER	O-C-N	-5.56	116.19	122.97
1	9B	122	PRO	CA-C-N	5.56	125.48	119.76
1	9B	122	PRO	C-N-CA	5.56	125.48	119.76
1	9D	165	VAL	CA-C-O	5.56	126.73	120.95
1	9G	42	ALA	N-CA-C	5.56	118.10	111.71
1	9R	140	LYS	N-CA-C	5.56	118.10	111.71
1	9S	68	MET	CA-C-N	5.56	127.99	120.65
1	9S	68	MET	C-N-CA	5.56	127.99	120.65
1	9Y	172	LEU	CA-C-N	5.56	127.73	120.28
1	9Y	172	LEU	C-N-CA	5.56	127.73	120.28
1	9Z	20	LEU	N-CA-CB	5.56	118.07	110.01
1	a4	228	ALA	CA-C-N	5.56	130.67	123.00
1	a4	228	ALA	C-N-CA	5.56	130.67	123.00
1	ai	72	THR	N-CA-CB	5.56	118.29	110.12
1	ax	129	ILE	CB-CA-C	-5.56	104.64	112.14
1	aF	39	MET	N-CA-C	5.56	117.42	111.36
1	aH	98	GLU	CA-C-O	-5.56	113.99	119.49
1	aI	84	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	aQ	180	GLU	CA-C-N	5.56	128.07	120.46
1	aQ	180	GLU	C-N-CA	5.56	128.07	120.46
1	aZ	103	ASP	N-CA-CB	5.56	118.29	110.12
1	b3	26	VAL	N-CA-C	5.56	116.29	110.62
1	b8	131	LYS	CA-C-N	5.56	127.66	120.44
1	b8	131	LYS	C-N-CA	5.56	127.66	120.44
1	bd	120	HIS	CA-C-O	-5.56	115.76	121.87
1	bp	26	VAL	N-CA-C	5.56	118.04	111.09
1	bs	138	LEU	CA-C-O	5.56	126.44	120.55
1	bu	19	THR	N-CA-CB	5.56	118.89	110.28
1	by	9	GLN	CA-C-O	-5.56	114.37	120.43
1	19	191	VAL	N-CA-CB	-5.56	104.93	112.16
1	c4	100	ARG	CB-CA-C	-5.56	100.62	112.63
1	ca	113	GLU	CA-C-N	5.56	128.00	120.44
1	ca	113	GLU	C-N-CA	5.56	128.00	120.44
1	cu	169	TYR	O-C-N	-5.56	116.23	122.12
1	cz	69	LEU	CA-C-N	5.56	127.73	120.28
1	cz	69	LEU	C-N-CA	5.56	127.73	120.28
1	cB	139	ASN	CA-C-O	-5.56	114.66	120.55
1	cF	40	PHE	CA-CB-CG	5.56	119.36	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cF	75	GLU	N-CA-C	5.56	117.02	111.07
1	cI	172	LEU	CA-C-O	-5.56	114.66	120.55
1	cK	142	VAL	N-CA-CB	5.56	117.05	110.55
1	cN	186	THR	N-CA-C	5.56	117.34	111.28
1	cQ	29	GLU	O-C-N	-5.56	116.23	122.12
1	cR	173	ARG	O-C-N	-5.56	115.81	122.15
1	cV	21	ASN	CA-C-O	5.56	126.35	119.79
1	d7	143	ARG	CB-CG-CD	5.56	124.08	111.30
1	d9	226	HIS	ND1-CE1-NE2	5.56	113.96	108.40
1	1j	126	VAL	CA-C-N	5.56	126.11	119.94
1	1j	126	VAL	C-N-CA	5.56	126.11	119.94
1	dn	133	TRP	O-C-N	-5.56	116.23	122.12
1	e8	39	MET	N-CA-C	5.56	117.02	111.07
1	eb	183	ASN	CB-CG-OD1	5.56	131.91	120.80
1	em	78	ALA	CA-C-O	-5.56	114.53	120.42
1	ez	76	GLU	N-CA-C	5.56	117.02	111.07
1	eD	55	MET	CA-C-O	5.56	126.31	120.42
1	f6	226	HIS	CG-CD2-NE2	5.56	112.76	107.20
1	fa	114	GLN	O-C-N	-5.56	116.23	122.12
1	fq	216	THR	O-C-N	-5.56	114.79	122.46
1	fy	224	PRO	N-CA-CB	-5.56	97.41	103.25
1	fJ	12	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	fN	121	ASN	CB-CG-ND2	5.56	124.74	116.40
1	g1	107	THR	O-C-N	-5.56	114.80	122.30
1	g2	159	GLU	CA-C-N	5.56	125.56	119.89
1	g2	159	GLU	C-N-CA	5.56	125.56	119.89
1	b	62	HIS	CA-CB-CG	-5.56	108.24	113.80
1	d	135	ILE	CA-CB-CG2	5.56	119.95	110.50
1	i	184	TRP	N-CA-C	5.56	117.42	111.36
1	r	37	ILE	N-CA-CB	-5.56	103.43	111.21
1	z	213	GLU	CA-C-N	5.56	128.04	120.54
1	z	213	GLU	C-N-CA	5.56	128.04	120.54
1	N	143	ARG	CA-C-N	5.56	130.13	120.68
1	N	143	ARG	C-N-CA	5.56	130.13	120.68
1	9	27	VAL	N-CA-CB	5.56	117.31	110.64
1	gd	41	SER	N-CA-CB	5.56	118.29	110.12
1	gg	84	HIS	CA-C-O	-5.56	113.66	120.05
1	gE	198	CYS	O-C-N	-5.56	116.23	122.12
1	gF	7	GLN	N-CA-CB	-5.56	102.05	111.27
1	h6	184	TRP	O-C-N	-5.56	116.35	122.07
1	hi	16	SER	CA-C-N	5.56	125.39	119.28
1	hi	16	SER	C-N-CA	5.56	125.39	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ho	134	ILE	O-C-N	-5.56	116.47	121.91
1	hC	88	ALA	O-C-N	5.56	129.18	122.85
1	hP	29	GLU	N-CA-C	5.56	118.10	111.71
1	hP	117	TRP	CA-C-N	5.56	130.86	121.14
1	hP	117	TRP	C-N-CA	5.56	130.86	121.14
1	iw	27	VAL	CA-C-O	-5.56	115.17	120.95
1	iI	229	ARG	NE-CZ-NH2	5.56	124.20	119.20
1	iU	82	ARG	CD-NE-CZ	5.56	132.18	124.40
1	jn	134	ILE	N-CA-C	5.56	116.19	110.36
1	jt	113	GLU	CA-C-N	5.56	127.72	120.28
1	jt	113	GLU	C-N-CA	5.56	127.72	120.28
1	jE	47	ALA	CA-C-O	5.56	127.30	121.19
1	jH	190	LEU	CB-CA-C	5.56	119.52	110.96
1	1Z	24	VAL	CA-C-O	5.56	126.73	120.95
1	k8	82	ARG	NH1-CZ-NH2	-5.56	112.08	119.30
1	kg	78	ALA	CA-C-N	5.56	128.28	120.28
1	kg	78	ALA	C-N-CA	5.56	128.28	120.28
1	21	81	ASP	CA-C-N	5.56	128.76	120.31
1	21	81	ASP	C-N-CA	5.56	128.76	120.31
1	kV	165	VAL	O-C-N	5.56	127.36	121.91
1	lb	61	GLY	O-C-N	5.56	128.43	122.93
1	le	139	ASN	CA-CB-CG	-5.56	107.04	112.60
1	lu	14	ALA	CA-C-O	5.56	127.25	120.92
1	lv	91	ILE	O-C-N	-5.56	116.27	122.66
1	lw	225	GLY	CA-C-N	5.56	128.99	120.82
1	lw	225	GLY	C-N-CA	5.56	128.99	120.82
1	lQ	226	HIS	CE1-NE2-CD2	-5.56	103.44	109.00
1	2m	87	HIS	CA-CB-CG	5.56	119.36	113.80
1	2M	82	ARG	CA-C-N	5.56	128.75	120.31
1	2M	82	ARG	C-N-CA	5.56	128.75	120.31
1	3d	4	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	3s	75	GLU	N-CA-C	5.56	117.02	111.07
1	3z	103	ASP	CA-C-N	5.56	128.07	120.46
1	3z	103	ASP	C-N-CA	5.56	128.07	120.46
1	3B	139	ASN	CA-C-N	5.56	127.66	120.44
1	3B	139	ASN	C-N-CA	5.56	127.66	120.44
1	3W	77	ALA	CA-C-O	5.56	126.44	120.55
1	3W	192	GLN	CA-C-O	-5.56	113.58	119.97
1	4o	206	GLY	CA-C-O	-5.56	113.57	121.52
1	4v	189	LEU	CD1-CG-CD2	-5.56	98.58	110.80
1	4B	178	SER	CA-C-N	5.56	127.99	120.38
1	4B	178	SER	C-N-CA	5.56	127.99	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4F	171	THR	CA-CB-OG1	5.56	117.93	109.60
1	4P	9	GLN	CG-CD-NE2	-5.56	108.07	116.40
1	5L	145	TYR	N-CA-CB	5.56	118.98	110.70
1	7k	143	ARG	O-C-N	-5.56	115.44	122.27
1	7P	135	ILE	N-CA-C	5.56	116.29	110.62
1	7S	31	ALA	N-CA-C	5.56	118.10	111.71
1	7S	145	TYR	N-CA-C	-5.56	106.09	112.92
1	8m	154	ARG	O-C-N	-5.56	116.69	123.30
1	8q	103	ASP	N-CA-C	-5.56	106.34	113.23
1	8t	58	THR	CA-C-N	5.56	129.51	121.18
1	8t	58	THR	C-N-CA	5.56	129.51	121.18
1	8x	33	SER	CA-C-O	-5.56	115.50	120.56
1	8B	112	GLN	CB-CA-C	5.56	120.01	110.79
1	9o	167	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	9W	132	ARG	CA-C-O	-5.56	114.66	120.55
1	Z	200	THR	CA-CB-OG1	-5.56	101.27	109.60
1	ad	39	MET	CB-CA-C	5.56	119.60	110.88
1	ap	2	ILE	O-C-N	-5.56	117.35	123.18
1	ar	176	GLN	CB-CA-C	5.56	119.56	110.17
1	b3	107	THR	OG1-CB-CG2	-5.56	98.19	109.30
1	bV	178	SER	N-CA-C	5.56	117.91	110.35
1	d3	197	ASP	CA-CB-CG	-5.56	107.04	112.60
1	d6	29	GLU	CB-CG-CD	-5.56	103.16	112.60
1	dy	162	ARG	NE-CZ-NH1	5.56	127.06	121.50
1	dD	13	GLN	OE1-CD-NE2	-5.56	117.04	122.60
1	dM	85	PRO	N-CA-CB	-5.56	98.36	103.25
1	dR	111	LEU	N-CA-C	5.56	118.10	111.71
1	e8	72	THR	N-CA-C	5.56	117.02	111.07
1	eR	179	GLN	CA-C-O	-5.56	114.63	120.63
1	1u	48	THR	N-CA-CB	5.56	117.45	109.78
1	fA	67	GLN	CB-CG-CD	5.56	122.05	112.60
1	fF	110	THR	CA-C-N	5.56	128.04	120.54
1	fF	110	THR	C-N-CA	5.56	128.04	120.54
1	fK	213	GLU	O-C-N	-5.56	116.35	122.07
1	fR	141	ILE	N-CA-C	5.56	116.33	110.72
1	fZ	112	GLN	O-C-N	-5.56	115.82	122.15
1	g1	53	ASN	CA-C-N	5.56	127.72	120.28
1	g1	53	ASN	C-N-CA	5.56	127.72	120.28
1	g6	87	HIS	O-C-N	-5.56	116.83	123.27
1	m	44	SER	CA-C-O	5.56	126.39	119.78
1	t	219	GLN	O-C-N	-5.56	116.52	122.85
1	x	97	ARG	NH1-CZ-NH2	-5.56	112.08	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gd	50	GLN	CA-C-N	5.55	128.04	120.54
1	gd	50	GLN	C-N-CA	5.55	128.04	120.54
1	gg	101	GLY	N-CA-C	5.55	119.40	112.73
1	gg	177	ALA	N-CA-C	5.55	122.63	110.80
1	gk	92	GLU	CA-C-N	5.55	126.78	119.84
1	gk	92	GLU	C-N-CA	5.55	126.78	119.84
1	gC	195	ASN	CA-C-O	-5.55	115.04	119.71
1	gJ	165	VAL	CA-C-N	5.55	127.72	120.28
1	gJ	165	VAL	C-N-CA	5.55	127.72	120.28
1	gK	100	ARG	N-CA-C	-5.55	102.54	110.59
1	gM	51	ASP	N-CA-CB	-5.55	101.95	110.12
1	gO	57	ASN	CA-C-N	5.55	128.28	120.28
1	gO	57	ASN	C-N-CA	5.55	128.28	120.28
1	h5	44	SER	N-CA-C	5.55	119.90	113.18
1	1I	51	ASP	CA-C-N	5.55	127.72	120.28
1	1I	51	ASP	C-N-CA	5.55	127.72	120.28
1	hm	123	PRO	O-C-N	-5.55	116.19	122.91
1	hr	106	GLY	CA-C-O	5.55	125.36	119.03
1	ht	184	TRP	CA-C-N	5.55	127.72	120.28
1	ht	184	TRP	C-N-CA	5.55	127.72	120.28
1	hz	18	ARG	NE-CZ-NH2	-5.55	114.20	119.20
1	hz	33	SER	CA-C-O	-5.55	114.41	120.69
1	hG	143	ARG	N-CA-C	5.55	117.78	111.11
1	hP	22	ALA	CA-C-N	5.55	127.66	120.44
1	hP	22	ALA	C-N-CA	5.55	127.66	120.44
1	hP	229	ARG	N-CA-C	5.55	118.97	110.20
1	hR	167	ARG	N-CA-C	5.55	117.01	111.07
1	1M	48	THR	CA-C-N	5.55	125.39	119.28
1	1M	48	THR	C-N-CA	5.55	125.39	119.28
1	i0	184	TRP	N-CA-C	5.55	117.78	111.11
1	i3	190	LEU	N-CA-C	-5.55	105.38	111.82
1	i5	72	THR	OG1-CB-CG2	-5.55	98.19	109.30
1	ia	26	VAL	CA-C-N	5.55	128.07	120.46
1	ia	26	VAL	C-N-CA	5.55	128.07	120.46
1	ia	54	THR	N-CA-C	5.55	117.33	111.28
1	1O	224	PRO	CA-C-N	5.55	126.11	119.94
1	1O	224	PRO	C-N-CA	5.55	126.11	119.94
1	ik	219	GLN	CA-C-N	5.55	131.16	120.66
1	ik	219	GLN	C-N-CA	5.55	131.16	120.66
1	il	18	ARG	CA-C-N	5.55	128.04	120.54
1	il	18	ARG	C-N-CA	5.55	128.04	120.54
1	ir	110	THR	CA-CB-OG1	5.55	117.93	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ix	40	PHE	O-C-N	-5.55	116.35	122.07
1	iy	36	VAL	CB-CA-C	5.55	119.64	112.14
1	iE	152	ASP	O-C-N	-5.55	114.52	122.41
1	1R	36	VAL	N-CA-CB	5.55	118.09	110.54
1	iR	81	ASP	CA-C-O	-5.55	114.66	120.55
1	1S	230	VAL	N-CA-C	5.55	115.94	108.17
1	iV	84	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	j1	76	GLU	N-CA-C	5.55	117.42	111.36
1	j2	32	PHE	CA-CB-CG	-5.55	108.25	113.80
1	jl	16	SER	O-C-N	-5.55	115.53	121.42
1	jo	54	THR	N-CA-CB	5.55	118.06	110.01
1	jp	105	ALA	N-CA-CB	-5.55	101.91	110.46
1	jx	229	ARG	CA-C-O	5.55	125.16	119.05
1	jA	182	LYS	CB-CA-C	5.55	120.01	110.79
1	jC	216	THR	N-CA-CB	5.55	118.81	110.65
1	1X	47	ALA	N-CA-C	5.55	118.28	110.23
1	jI	164	TYR	CA-C-N	5.55	128.07	120.46
1	jI	164	TYR	C-N-CA	5.55	128.07	120.46
1	jK	214	MET	CG-SD-CE	-5.55	88.68	100.90
1	kc	174	ALA	CA-C-N	5.55	129.14	120.75
1	kc	174	ALA	C-N-CA	5.55	129.14	120.75
1	kg	158	LYS	N-CA-C	5.55	120.21	113.38
1	kD	173	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	kF	23	TRP	CA-C-O	5.55	126.31	120.42
1	kF	69	LEU	CA-C-N	5.55	127.72	120.28
1	kF	69	LEU	C-N-CA	5.55	127.72	120.28
1	kS	28	GLU	N-CA-C	5.55	117.33	111.28
1	kT	167	ARG	N-CA-C	5.55	117.33	111.28
1	kU	10	MET	N-CA-CB	5.55	118.26	109.71
1	kU	195	ASN	CA-C-O	-5.55	114.39	120.17
1	lj	104	ILE	CA-CB-CG1	5.55	119.84	110.40
1	lt	211	LEU	N-CA-C	5.55	120.53	111.37
1	lz	103	ASP	N-CA-C	5.55	117.33	111.28
1	lA	134	ILE	CA-C-O	5.55	127.06	121.17
1	lB	57	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	29	212	GLU	CA-C-N	5.55	127.72	120.28
1	29	212	GLU	C-N-CA	5.55	127.72	120.28
1	lG	199	LYS	CA-C-N	5.55	127.98	120.65
1	lG	199	LYS	C-N-CA	5.55	127.98	120.65
1	2b	199	LYS	O-C-N	-5.55	116.23	122.12
1	2d	62	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	2n	76	GLU	CA-C-O	5.55	126.44	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2q	50	GLN	CB-CA-C	5.55	120.01	110.79
1	2q	161	PHE	O-C-N	-5.55	116.23	122.12
1	2y	107	THR	N-CA-CB	5.55	118.06	110.01
1	36	218	CYS	N-CA-CB	5.55	119.88	110.49
1	38	82	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	39	121	ASN	O-C-N	-5.55	114.27	121.10
1	3d	154	ARG	CA-C-N	5.55	128.65	120.82
1	3d	154	ARG	C-N-CA	5.55	128.65	120.82
1	3m	148	THR	N-CA-CB	5.55	119.34	110.73
1	3p	211	LEU	N-CA-CB	5.55	118.28	110.12
1	3z	149	SER	CA-C-N	5.55	129.25	120.47
1	3z	149	SER	C-N-CA	5.55	129.25	120.47
1	3E	104	ILE	CB-CA-C	-5.55	104.64	112.14
1	3J	62	HIS	CA-C-N	5.55	127.66	120.44
1	3J	62	HIS	C-N-CA	5.55	127.66	120.44
1	3T	92	GLU	CB-CA-C	5.55	123.09	112.76
1	4r	195	ASN	O-C-N	-5.55	115.71	121.60
1	4B	39	MET	CA-C-N	5.55	127.72	120.28
1	4B	39	MET	C-N-CA	5.55	127.72	120.28
1	4I	150	ILE	CA-C-O	5.55	126.51	120.57
1	4N	59	VAL	N-CA-CB	5.55	116.58	110.53
1	4Z	24	VAL	N-CA-C	5.55	116.33	110.72
1	57	22	ALA	CA-C-N	5.55	128.04	120.54
1	57	22	ALA	C-N-CA	5.55	128.04	120.54
1	5a	3	VAL	O-C-N	-5.55	117.20	123.20
1	5p	37	ILE	CA-C-O	5.55	122.93	118.71
1	5r	124	ILE	CA-CB-CG2	-5.55	101.06	110.50
1	5t	201	ILE	CA-C-N	5.55	128.18	120.29
1	5t	201	ILE	C-N-CA	5.55	128.18	120.29
1	5z	55	MET	CA-C-N	5.55	127.98	120.65
1	5z	55	MET	C-N-CA	5.55	127.98	120.65
1	5A	206	GLY	CA-C-N	5.55	126.50	120.83
1	5A	206	GLY	C-N-CA	5.55	126.50	120.83
1	5F	202	LEU	N-CA-C	5.55	117.33	111.28
1	5K	140	LYS	O-C-N	-5.55	115.44	122.27
1	5R	20	LEU	O-C-N	-5.55	116.35	122.07
1	5Z	167	ARG	CA-C-N	5.55	130.02	121.19
1	5Z	167	ARG	C-N-CA	5.55	130.02	121.19
1	6j	17	PRO	N-CA-CB	5.55	109.41	103.52
1	6j	209	ALA	N-CA-C	5.55	118.50	110.28
1	6t	195	ASN	N-CA-C	5.55	117.91	109.41
1	6A	179	GLN	CA-C-O	-5.55	114.96	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	36	VAL	CB-CA-C	-5.55	104.77	111.88
1	6X	183	ASN	CA-C-N	5.55	127.66	120.44
1	6X	183	ASN	C-N-CA	5.55	127.66	120.44
1	70	215	MET	CB-CA-C	5.55	120.01	110.79
1	7a	162	ARG	NE-CZ-NH2	5.55	124.20	119.20
1	7v	122	PRO	CA-C-N	5.55	126.78	119.84
1	7v	122	PRO	C-N-CA	5.55	126.78	119.84
1	7y	16	SER	CA-C-N	5.55	125.22	119.05
1	7y	16	SER	C-N-CA	5.55	125.22	119.05
1	7K	154	ARG	NE-CZ-NH2	-5.55	114.20	119.20
1	7N	5	ASN	N-CA-C	5.55	119.50	111.56
1	7R	90	PRO	CB-CA-C	5.55	118.50	111.39
1	7S	51	ASP	CA-C-N	5.55	128.18	120.29
1	7S	51	ASP	C-N-CA	5.55	128.18	120.29
1	84	117	TRP	CB-CG-CD2	5.55	134.58	126.80
1	8a	133	TRP	CE2-CD2-CE3	5.55	124.36	118.80
1	8g	216	THR	CA-C-N	5.55	130.61	121.39
1	8g	216	THR	C-N-CA	5.55	130.61	121.39
1	8o	82	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	8w	226	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	8E	142	VAL	CA-C-N	5.55	127.66	120.44
1	8E	142	VAL	C-N-CA	5.55	127.66	120.44
1	8Z	180	GLU	CB-CA-C	-5.55	101.57	110.79
1	90	91	ILE	CA-C-N	5.55	128.38	120.49
1	90	91	ILE	C-N-CA	5.55	128.38	120.49
1	9d	162	ARG	N-CA-C	5.55	118.10	111.71
1	9l	136	LEU	CA-C-N	5.55	126.11	120.00
1	9l	136	LEU	C-N-CA	5.55	126.11	120.00
1	9x	157	PRO	CA-C-N	5.55	131.50	122.67
1	9x	157	PRO	C-N-CA	5.55	131.50	122.67
1	9H	12	HIS	CB-CA-C	5.55	118.92	109.53
1	9I	209	ALA	N-CA-CB	5.55	118.09	109.48
1	a3	85	PRO	O-C-N	5.55	130.10	122.38
1	a9	183	ASN	CB-CA-C	5.55	119.60	110.88
1	ad	130	TYR	CA-C-N	5.55	128.75	120.31
1	ad	130	TYR	C-N-CA	5.55	128.75	120.31
1	ag	65	ALA	CA-C-N	5.55	127.72	120.28
1	ag	65	ALA	C-N-CA	5.55	127.72	120.28
1	ar	106	GLY	O-C-N	-5.55	116.41	122.41
1	ax	4	GLN	CA-C-O	5.55	127.05	120.66
1	aA	180	GLU	N-CA-C	5.55	117.33	111.28
1	14	100	ARG	NE-CZ-NH1	5.55	127.06	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aT	39	MET	O-C-N	-5.55	116.09	122.09
1	bg	61	GLY	O-C-N	-5.55	117.60	122.88
1	bz	62	HIS	CA-CB-CG	5.55	119.35	113.80
1	bA	112	GLN	N-CA-C	5.55	118.10	111.71
1	19	90	PRO	N-CA-C	5.55	123.91	112.47
1	bD	50	GLN	O-C-N	-5.55	116.23	122.12
1	bH	165	VAL	O-C-N	-5.55	116.48	121.87
1	bN	92	GLU	N-CA-C	-5.55	99.23	108.23
1	bN	143	ARG	N-CA-C	5.55	117.01	111.07
1	c7	148	THR	CA-C-N	-5.55	114.19	122.74
1	c7	148	THR	C-N-CA	-5.55	114.19	122.74
1	ck	192	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	cm	35	GLU	N-CA-C	5.55	119.32	112.54
1	cA	7	GLN	OE1-CD-NE2	5.55	128.15	122.60
1	cJ	192	GLN	O-C-N	-5.55	116.35	122.07
1	cK	195	ASN	CA-CB-CG	-5.55	107.05	112.60
1	cO	98	GLU	CB-CA-C	5.55	116.86	108.86
1	cR	81	ASP	CA-CB-CG	5.55	118.15	112.60
1	cZ	82	ARG	CA-C-O	5.55	126.20	119.31
1	d0	194	ALA	CA-C-N	5.55	132.81	121.48
1	d0	194	ALA	C-N-CA	5.55	132.81	121.48
1	d2	227	LYS	O-C-N	-5.55	115.67	123.11
1	db	155	GLN	O-C-N	-5.55	116.10	122.93
1	dg	30	LYS	N-CA-CB	5.55	118.82	110.65
1	dw	101	GLY	CA-C-O	5.55	126.24	120.80
1	dy	33	SER	N-CA-C	5.55	114.69	108.25
1	dL	195	ASN	N-CA-C	5.55	117.56	109.84
1	1o	41	SER	CA-C-N	5.55	128.28	120.28
1	1o	41	SER	C-N-CA	5.55	128.28	120.28
1	e7	100	ARG	CA-C-N	5.55	127.27	120.22
1	e7	100	ARG	C-N-CA	5.55	127.27	120.22
1	e8	11	VAL	O-C-N	-5.55	117.20	123.20
1	er	111	LEU	N-CA-C	5.55	117.01	111.07
1	es	24	VAL	O-C-N	-5.55	116.48	121.87
1	f7	127	GLY	N-CA-C	5.55	119.39	112.73
1	fg	139	ASN	N-CA-C	5.55	117.33	111.28
1	ft	36	VAL	N-CA-CB	5.55	118.91	110.58
1	ft	80	TRP	CA-C-O	5.55	126.84	120.90
1	fC	53	ASN	CA-CB-CG	-5.55	107.05	112.60
1	1y	12	HIS	CA-C-N	5.55	131.73	122.73
1	1y	12	HIS	C-N-CA	5.55	131.73	122.73
1	fH	62	HIS	ND1-CG-CD2	5.55	111.66	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fH	66	MET	CB-CA-C	5.55	119.60	110.88
1	fY	3	VAL	O-C-N	5.55	128.97	122.81
1	g5	100	ARG	NE-CZ-NH1	5.55	127.06	121.50
1	a	72	THR	N-CA-C	5.55	117.78	111.11
1	e	155	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	y	6	LEU	CA-C-N	5.55	128.73	120.90
1	y	6	LEU	C-N-CA	5.55	128.73	120.90
1	G	4	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	P	79	GLU	N-CA-C	5.55	117.42	111.36
1	gf	158	LYS	CA-C-O	5.55	125.93	119.32
1	gr	199	LYS	CA-C-N	5.55	127.66	120.44
1	gr	199	LYS	C-N-CA	5.55	127.66	120.44
1	gw	165	VAL	CA-C-N	5.55	128.18	120.29
1	gw	165	VAL	C-N-CA	5.55	128.18	120.29
1	1E	169	TYR	N-CA-CB	5.55	118.66	110.33
1	gF	114	GLN	CA-C-N	5.55	127.56	120.56
1	gF	114	GLN	C-N-CA	5.55	127.56	120.56
1	gH	120	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	h7	173	ARG	CA-C-N	5.55	127.66	120.44
1	h7	173	ARG	C-N-CA	5.55	127.66	120.44
1	hi	152	ASP	O-C-N	-5.55	114.71	122.37
1	hn	178	SER	O-C-N	-5.55	116.31	122.86
1	hp	7	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	hu	112	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	hT	144	MET	N-CA-C	5.55	118.26	111.82
1	iE	102	SER	N-CA-C	5.55	118.10	111.71
1	iJ	51	ASP	CA-C-N	5.55	127.72	120.28
1	iJ	51	ASP	C-N-CA	5.55	127.72	120.28
1	jj	133	TRP	O-C-N	-5.55	116.35	122.07
1	jB	216	THR	CA-CB-CG2	-5.55	101.06	110.50
1	jC	167	ARG	N-CA-C	5.55	118.26	111.82
1	jN	40	PHE	CA-C-O	5.55	126.44	120.55
1	21	80	TRP	CB-CG-CD2	-5.55	119.03	126.80
1	ku	84	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	kv	171	THR	CA-C-N	5.55	130.86	121.14
1	kv	171	THR	C-N-CA	5.55	130.86	121.14
1	kA	48	THR	N-CA-CB	5.55	116.18	109.74
1	26	84	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	l9	177	ALA	N-CA-C	5.55	117.70	110.43
1	lc	166	ASP	CA-CB-CG	5.55	118.15	112.60
1	li	192	GLN	N-CA-C	5.55	119.31	112.54
1	ll	45	GLU	CB-CG-CD	5.55	122.04	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	220	GLY	N-CA-C	5.55	121.66	112.66
1	lx	145	TYR	CA-CB-CG	-5.55	103.90	113.90
1	2c	173	ARG	O-C-N	5.55	128.01	122.12
1	2h	119	THR	CA-C-N	5.55	128.98	120.82
1	2h	119	THR	C-N-CA	5.55	128.98	120.82
1	2l	40	PHE	CA-C-N	5.55	128.18	120.29
1	2l	40	PHE	C-N-CA	5.55	128.18	120.29
1	2Y	41	SER	N-CA-CB	5.55	118.28	110.12
1	3h	84	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	3x	151	LEU	N-CA-C	5.55	117.33	111.28
1	3U	208	ALA	N-CA-C	5.55	119.30	111.52
1	4a	202	LEU	CA-C-O	5.55	126.65	120.82
1	4i	47	ALA	CB-CA-C	5.55	118.16	110.16
1	4o	170	LYS	CA-C-N	5.55	127.72	120.28
1	4o	170	LYS	C-N-CA	5.55	127.72	120.28
1	4I	187	GLU	N-CA-C	5.55	118.26	111.82
1	4U	228	ALA	CA-C-O	5.55	126.31	120.42
1	5p	75	GLU	N-CA-CB	5.55	118.22	109.94
1	5u	92	GLU	CB-CA-C	5.55	118.00	109.50
1	5C	62	HIS	CA-C-N	5.55	128.04	120.54
1	5C	62	HIS	C-N-CA	5.55	128.04	120.54
1	5F	27	VAL	CA-C-O	-5.55	115.17	120.95
1	5J	218	CYS	CA-C-N	5.55	128.99	121.05
1	5J	218	CYS	C-N-CA	5.55	128.99	121.05
1	67	59	VAL	CA-CB-CG2	-5.55	100.96	110.40
1	6w	36	VAL	CA-C-N	-5.55	116.74	120.24
1	6w	36	VAL	C-N-CA	-5.55	116.74	120.24
1	6x	3	VAL	CA-C-O	5.55	126.51	120.57
1	6Z	90	PRO	N-CA-CB	-5.55	98.36	102.25
1	7i	110	THR	OG1-CB-CG2	5.55	120.41	109.30
1	8p	159	GLU	O-C-N	-5.55	114.93	121.32
1	8J	84	HIS	CB-CG-CD2	-5.55	123.98	131.20
1	8K	108	THR	CA-CB-CG2	-5.55	101.06	110.50
1	8Q	30	LYS	CA-C-N	5.55	128.75	120.31
1	8Q	30	LYS	C-N-CA	5.55	128.75	120.31
1	8Z	173	ARG	CD-NE-CZ	5.55	132.17	124.40
1	an	71	GLU	N-CA-C	5.55	117.77	111.11
1	ao	145	TYR	N-CA-CB	5.55	118.28	110.12
1	aA	156	GLY	O-C-N	-5.55	116.22	121.77
1	bh	26	VAL	CA-CB-CG1	5.55	119.84	110.40
1	bh	212	GLU	N-CA-C	5.55	117.33	111.28
1	bp	229	ARG	NH1-CZ-NH2	-5.55	112.08	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	226	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	bM	2	ILE	N-CA-C	-5.55	100.58	108.58
1	bM	158	LYS	CA-C-N	5.55	130.96	121.35
1	bM	158	LYS	C-N-CA	5.55	130.96	121.35
1	cf	214	MET	CA-C-O	-5.55	114.66	120.55
1	1d	132	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	cU	145	TYR	CA-C-N	5.55	128.77	120.83
1	cU	145	TYR	C-N-CA	5.55	128.77	120.83
1	dc	25	LYS	N-CA-CB	5.55	118.28	110.12
1	dD	103	ASP	CA-C-N	5.55	128.07	120.46
1	dD	103	ASP	C-N-CA	5.55	128.07	120.46
1	dD	118	MET	N-CA-CB	-5.55	101.78	110.44
1	dF	12	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	eb	58	THR	CA-C-N	5.55	128.53	120.98
1	eb	58	THR	C-N-CA	5.55	128.53	120.98
1	ej	90	PRO	N-CA-C	-5.55	106.46	114.18
1	ek	152	ASP	N-CA-CB	-5.55	101.17	110.39
1	1q	212	GLU	CA-C-N	5.55	128.18	120.29
1	1q	212	GLU	C-N-CA	5.55	128.18	120.29
1	eY	2	ILE	O-C-N	-5.55	116.74	122.63
1	f2	219	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	ft	214	MET	N-CA-C	5.55	117.33	111.28
1	fu	52	LEU	CA-C-N	5.55	127.72	120.28
1	fu	52	LEU	C-N-CA	5.55	127.72	120.28
1	l	134	ILE	CA-C-N	5.55	127.76	120.60
1	l	134	ILE	C-N-CA	5.55	127.76	120.60
1	V	7	GLN	CA-C-O	-5.55	115.44	121.44
1	gc	192	GLN	N-CA-CB	5.55	118.85	110.30
1	gg	19	THR	O-C-N	-5.55	116.32	122.09
1	gv	202	LEU	O-C-N	-5.55	116.24	122.12
1	gB	79	GLU	N-CA-C	5.55	117.33	111.28
1	gE	148	THR	CA-CB-OG1	5.55	117.93	109.60
1	gJ	20	LEU	N-CA-C	5.55	117.01	111.07
1	gM	36	VAL	CA-CB-CG2	5.55	119.84	110.40
1	gV	112	GLN	CB-CG-CD	5.55	122.04	112.60
1	h4	143	ARG	N-CA-C	5.55	117.01	111.07
1	1H	12	HIS	CA-C-N	5.55	131.27	122.94
1	1H	12	HIS	C-N-CA	5.55	131.27	122.94
1	he	78	ALA	CA-C-O	5.55	126.65	120.82
1	hj	82	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	hj	148	THR	O-C-N	-5.55	115.62	123.01
1	hp	179	GLN	N-CA-CB	5.55	118.06	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hx	64	ALA	CA-C-N	5.55	127.66	120.44
1	hx	64	ALA	C-N-CA	5.55	127.66	120.44
1	hy	53	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	hC	146	SER	N-CA-CB	5.55	118.23	110.07
1	hD	36	VAL	N-CA-C	-5.55	105.23	113.39
1	ih	129	ILE	N-CA-C	5.55	116.20	110.82
1	ik	51	ASP	CA-CB-CG	5.55	118.15	112.60
1	1Q	128	GLU	CA-C-N	5.55	127.55	120.56
1	1Q	128	GLU	C-N-CA	5.55	127.55	120.56
1	iG	36	VAL	CA-C-O	5.55	126.72	120.95
1	j0	81	ASP	CA-CB-CG	5.55	118.15	112.60
1	j0	184	TRP	CB-CG-CD1	5.55	135.23	126.90
1	je	141	ILE	CA-C-N	5.55	127.76	120.60
1	je	141	ILE	C-N-CA	5.55	127.76	120.60
1	ji	62	HIS	CB-CG-ND1	-5.55	114.37	122.70
1	jl	115	ILE	CA-CB-CG1	5.55	119.84	110.40
1	js	72	THR	O-C-N	-5.55	116.35	122.07
1	1X	111	LEU	O-C-N	-5.55	116.23	122.12
1	1Y	73	ILE	CA-C-O	5.55	126.82	121.05
1	jW	127	GLY	CA-C-N	5.55	128.17	120.29
1	jW	127	GLY	C-N-CA	5.55	128.17	120.29
1	k0	214	MET	O-C-N	-5.55	116.24	122.12
1	km	118	MET	N-CA-C	5.55	119.31	112.54
1	kw	48	THR	CA-CB-OG1	5.55	117.93	109.60
1	kL	4	GLN	N-CA-C	5.55	117.23	108.96
1	kU	128	GLU	N-CA-C	5.55	117.33	111.28
1	25	201	ILE	CA-C-O	5.55	127.21	121.05
1	l0	72	THR	N-CA-CB	5.55	118.12	110.07
1	lE	110	THR	CA-C-N	5.55	127.66	120.44
1	lE	110	THR	C-N-CA	5.55	127.66	120.44
1	lR	164	TYR	CA-C-N	5.55	127.56	120.56
1	lR	164	TYR	C-N-CA	5.55	127.56	120.56
1	2z	75	GLU	CA-C-N	5.55	128.17	120.29
1	2z	75	GLU	C-N-CA	5.55	128.17	120.29
1	2H	159	GLU	CA-C-N	5.55	126.78	119.84
1	2H	159	GLU	C-N-CA	5.55	126.78	119.84
1	2I	171	THR	N-CA-CB	5.55	118.38	110.16
1	2L	154	ARG	CD-NE-CZ	5.55	132.17	124.40
1	3b	86	VAL	N-CA-CB	-5.55	104.67	111.00
1	3k	80	TRP	N-CA-C	5.55	117.33	111.28
1	3n	203	LYS	N-CA-C	5.55	117.33	111.28
1	3w	112	GLN	N-CA-C	5.55	118.05	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3J	165	VAL	CA-CB-CG1	5.55	119.84	110.40
1	3S	178	SER	CA-CB-OG	5.55	122.20	111.10
1	3U	177	ALA	CA-C-N	5.55	129.13	120.75
1	3U	177	ALA	C-N-CA	5.55	129.13	120.75
1	3X	203	LYS	CA-C-N	5.55	127.72	120.28
1	3X	203	LYS	C-N-CA	5.55	127.72	120.28
1	3Y	87	HIS	N-CA-CB	5.55	119.87	110.49
1	40	77	ALA	N-CA-C	-5.55	105.23	111.28
1	4c	74	ASN	CA-C-N	5.55	127.66	120.44
1	4c	74	ASN	C-N-CA	5.55	127.66	120.44
1	4l	97	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	4l	184	TRP	N-CA-C	5.55	117.33	111.28
1	4q	45	GLU	CA-C-O	5.55	127.19	120.81
1	4K	167	ARG	N-CA-C	5.55	117.33	111.28
1	4K	216	THR	CA-C-N	5.55	128.65	120.82
1	4K	216	THR	C-N-CA	5.55	128.65	120.82
1	4N	195	ASN	CA-C-O	-5.55	114.57	120.23
1	50	54	THR	O-C-N	-5.55	116.23	122.12
1	54	139	ASN	CA-C-N	5.55	128.03	120.54
1	54	139	ASN	C-N-CA	5.55	128.03	120.54
1	5e	74	ASN	N-CA-C	5.55	117.41	111.36
1	5J	144	MET	N-CA-C	-5.55	105.38	111.82
1	5N	145	TYR	N-CA-CB	5.55	118.85	110.30
1	5V	195	ASN	N-CA-C	5.55	117.56	109.84
1	6d	9	GLN	CG-CD-OE1	-5.55	109.70	120.80
1	6h	91	ILE	O-C-N	-5.55	116.62	122.95
1	6j	5	ASN	CA-C-O	5.55	127.61	121.56
1	6j	88	ALA	CB-CA-C	5.55	121.47	110.42
1	6k	86	VAL	N-CA-CB	-5.55	104.48	110.53
1	6s	37	ILE	CA-C-O	-5.55	114.13	118.85
1	6C	184	TRP	CB-CA-C	5.55	120.00	110.79
1	6F	218	CYS	CA-C-O	5.55	126.50	120.12
1	6T	122	PRO	CA-C-N	5.55	125.55	119.89
1	6T	122	PRO	C-N-CA	5.55	125.55	119.89
1	77	187	GLU	N-CA-CB	5.55	118.12	110.07
1	7d	102	SER	N-CA-C	5.55	118.09	111.71
1	7m	169	TYR	N-CA-C	5.55	118.09	111.71
1	7w	62	HIS	CB-CA-C	5.55	119.18	111.63
1	7B	222	GLY	O-C-N	-5.55	115.48	122.70
1	7H	120	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	89	84	HIS	CA-C-O	-5.55	115.77	121.32
1	8i	42	ALA	CA-C-N	5.55	127.72	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8i	42	ALA	C-N-CA	5.55	127.72	120.28
1	8u	148	THR	CA-C-N	5.55	130.98	122.93
1	8u	148	THR	C-N-CA	5.55	130.98	122.93
1	8x	36	VAL	CA-C-O	5.55	126.72	120.95
1	8F	166	ASP	CA-CB-CG	5.55	118.15	112.60
1	8R	193	ASN	CA-C-O	5.55	126.14	119.59
1	91	105	ALA	CA-C-O	5.55	126.22	119.11
1	9p	200	THR	CA-C-N	5.55	127.76	120.60
1	9p	200	THR	C-N-CA	5.55	127.76	120.60
1	9s	40	PHE	CA-C-O	5.55	126.35	119.97
1	9x	145	TYR	CA-C-N	5.55	128.20	120.65
1	9x	145	TYR	C-N-CA	5.55	128.20	120.65
1	9y	230	VAL	CA-C-N	5.55	131.69	121.70
1	9y	230	VAL	C-N-CA	5.55	131.69	121.70
1	9H	20	LEU	N-CA-C	-5.55	104.86	111.69
1	9L	230	VAL	N-CA-C	5.55	120.89	109.34
1	9N	98	GLU	N-CA-C	5.55	116.81	109.93
1	9T	43	LEU	CA-C-O	5.55	126.42	120.70
1	9U	106	GLY	N-CA-C	5.55	122.74	115.47
1	9W	129	ILE	CB-CA-C	5.55	119.08	111.97
1	a6	229	ARG	CA-C-O	5.55	126.49	120.55
1	al	133	TRP	O-C-N	-5.55	114.89	122.33
1	au	130	TYR	O-C-N	-5.55	115.44	122.27
1	aC	50	GLN	CA-C-N	5.55	127.66	120.44
1	aC	50	GLN	C-N-CA	5.55	127.66	120.44
1	aN	23	TRP	N-CA-C	5.55	117.01	111.07
1	aP	226	HIS	CA-CB-CG	-5.55	108.25	113.80
1	b4	149	SER	CA-C-O	-5.55	114.54	120.92
1	b7	89	GLY	CA-C-N	5.55	126.33	120.11
1	b7	89	GLY	C-N-CA	5.55	126.33	120.11
1	bh	1	PRO	CA-C-N	5.55	130.07	123.19
1	bh	1	PRO	C-N-CA	5.55	130.07	123.19
1	17	95	GLN	N-CA-C	-5.55	101.12	109.95
1	bs	65	ALA	CA-C-N	5.55	127.66	120.44
1	bs	65	ALA	C-N-CA	5.55	127.66	120.44
1	by	118	MET	CA-C-O	5.55	126.21	119.38
1	bC	23	TRP	CA-C-N	5.55	128.07	120.46
1	bC	23	TRP	C-N-CA	5.55	128.07	120.46
1	bG	36	VAL	N-CA-C	5.55	116.28	110.62
1	bN	84	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	bT	156	GLY	CA-C-N	5.55	125.08	119.19
1	bT	156	GLY	C-N-CA	5.55	125.08	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bV	114	GLN	N-CA-C	5.55	117.33	111.28
1	1c	110	THR	O-C-N	-5.55	117.43	123.26
1	c8	176	GLN	CA-C-N	5.55	129.13	120.75
1	c8	176	GLN	C-N-CA	5.55	129.13	120.75
1	c9	68	MET	N-CA-C	5.55	117.41	111.36
1	cb	116	GLY	O-C-N	5.55	127.58	122.19
1	cd	18	ARG	CA-C-O	5.55	126.37	120.10
1	cp	98	GLU	O-C-N	-5.55	116.59	121.31
1	cs	11	VAL	CA-C-O	-5.55	114.66	120.27
1	cu	218	CYS	N-CA-C	5.55	119.29	111.52
1	cA	201	ILE	CA-C-N	5.55	127.72	120.28
1	cA	201	ILE	C-N-CA	5.55	127.72	120.28
1	cI	47	ALA	N-CA-C	5.55	118.33	110.50
1	cS	18	ARG	CA-C-N	5.55	127.66	120.44
1	cS	18	ARG	C-N-CA	5.55	127.66	120.44
1	d0	208	ALA	N-CA-CB	-5.55	102.42	110.47
1	d9	87	HIS	CA-CB-CG	5.55	119.35	113.80
1	di	70	LYS	CA-C-O	-5.55	113.83	120.10
1	di	91	ILE	O-C-N	-5.55	116.87	123.03
1	dr	37	ILE	O-C-N	-5.55	116.87	120.42
1	dt	142	VAL	N-CA-C	5.55	116.95	110.62
1	dz	205	LEU	N-CA-C	5.55	117.14	111.14
1	dD	143	ARG	NE-CZ-NH2	-5.55	114.20	119.20
1	dG	121	ASN	O-C-N	5.55	126.88	121.66
1	eg	62	HIS	N-CA-C	5.55	119.23	111.74
1	eh	62	HIS	CA-C-O	-5.55	115.15	121.65
1	et	170	LYS	O-C-N	-5.55	116.24	122.12
1	eB	110	THR	CA-C-N	5.55	127.72	120.28
1	eB	110	THR	C-N-CA	5.55	127.72	120.28
1	eU	121	ASN	CA-CB-CG	-5.55	107.05	112.60
1	f6	208	ALA	O-C-N	-5.55	115.21	122.59
1	f7	165	VAL	CA-C-N	5.55	127.66	120.44
1	f7	165	VAL	C-N-CA	5.55	127.66	120.44
1	f7	229	ARG	CA-C-N	5.55	129.11	120.34
1	f7	229	ARG	C-N-CA	5.55	129.11	120.34
1	1v	206	GLY	N-CA-C	5.55	123.67	112.34
1	fm	132	ARG	CD-NE-CZ	-5.55	116.63	124.40
1	fu	160	PRO	N-CA-CB	5.55	109.08	103.25
1	fz	47	ALA	O-C-N	-5.55	116.04	122.87
1	fD	62	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	fP	183	ASN	CA-C-O	5.55	126.30	120.42
1	fR	5	ASN	CA-C-N	5.55	131.31	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	5	ASN	C-N-CA	5.55	131.31	122.59
1	fT	226	HIS	N-CA-C	5.55	117.41	111.36
1	1A	81	ASP	N-CA-CB	-5.55	101.67	110.28
1	k	201	ILE	CA-C-O	5.55	127.06	121.17
1	p	23	TRP	CA-CB-CG	5.55	124.15	113.60
1	2	162	ARG	NE-CZ-NH2	-5.55	114.20	119.20
1	z	76	GLU	CA-C-N	5.55	127.72	120.28
1	z	76	GLU	C-N-CA	5.55	127.72	120.28
1	E	83	LEU	N-CA-C	5.55	117.33	111.28
1	O	138	LEU	CA-C-N	5.55	127.66	120.44
1	O	138	LEU	C-N-CA	5.55	127.66	120.44
1	P	62	HIS	N-CA-CB	5.55	119.87	110.49
1	R	160	PRO	CA-C-O	-5.55	115.29	121.23
1	U	222	GLY	O-C-N	-5.55	115.48	122.70
1	g9	7	GLN	N-CA-CB	5.55	119.87	110.49
1	gb	116	GLY	N-CA-C	5.55	118.94	112.50
1	gg	100	ARG	O-C-N	-5.55	116.46	122.79
1	gB	137	GLY	N-CA-C	5.55	119.39	112.73
1	gD	107	THR	CA-C-O	-5.55	115.17	121.00
1	gL	5	ASN	CA-C-N	5.55	132.14	121.54
1	gL	5	ASN	C-N-CA	5.55	132.14	121.54
1	gQ	80	TRP	CB-CG-CD1	-5.55	118.58	126.90
1	gY	61	GLY	CA-C-N	5.55	130.84	122.68
1	gY	61	GLY	C-N-CA	5.55	130.84	122.68
1	h7	25	LYS	CA-C-O	5.55	126.43	120.55
1	1J	175	GLU	CB-CG-CD	5.55	122.03	112.60
1	hs	209	ALA	O-C-N	-5.55	116.76	123.03
1	hv	190	LEU	N-CA-CB	-5.55	101.67	110.22
1	hy	96	MET	CA-C-O	5.55	126.42	120.32
1	hX	121	ASN	OD1-CG-ND2	5.55	128.15	122.60
1	i4	16	SER	O-C-N	-5.55	115.54	121.42
1	i7	110	THR	CA-CB-OG1	5.55	117.92	109.60
1	1P	19	THR	CA-C-O	5.55	126.30	120.42
1	iA	24	VAL	O-C-N	-5.55	116.76	122.14
1	iP	73	ILE	N-CA-C	-5.55	105.11	110.72
1	iQ	210	THR	O-C-N	-5.55	116.46	122.79
1	iZ	167	ARG	CA-C-N	5.55	127.65	120.44
1	iZ	167	ARG	C-N-CA	5.55	127.65	120.44
1	j0	120	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	jc	215	MET	O-C-N	-5.55	116.24	122.12
1	jg	201	ILE	N-CA-CB	5.55	118.09	110.54
1	jh	37	ILE	CA-C-O	-5.55	112.52	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jl	193	ASN	O-C-N	-5.55	115.65	122.25
1	jF	166	ASP	O-C-N	-5.55	116.24	122.12
1	jQ	215	MET	CG-SD-CE	-5.55	88.69	100.90
1	jT	106	GLY	O-C-N	-5.55	115.96	122.45
1	jV	37	ILE	O-C-N	-5.55	116.87	120.42
1	jZ	184	TRP	CB-CG-CD1	5.55	135.22	126.90
1	k6	57	ASN	N-CA-C	5.55	117.77	111.11
1	ke	84	HIS	CA-C-N	5.55	126.78	119.84
1	ke	84	HIS	C-N-CA	5.55	126.78	119.84
1	ke	222	GLY	CA-C-O	-5.55	113.55	118.77
1	kg	36	VAL	CA-C-N	5.55	125.76	120.43
1	kg	36	VAL	C-N-CA	5.55	125.76	120.43
1	21	35	GLU	CA-C-O	5.55	125.78	119.18
1	21	186	THR	O-C-N	-5.55	116.24	122.12
1	kl	104	ILE	CB-CA-C	5.55	119.31	112.04
1	ko	217	ALA	CA-C-O	-5.55	115.51	121.56
1	kr	87	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	kx	120	HIS	CB-CG-ND1	-5.55	114.38	122.70
1	kD	149	SER	N-CA-C	-5.55	99.63	109.06
1	kI	92	GLU	CB-CA-C	5.55	118.20	109.27
1	25	26	VAL	O-C-N	-5.55	116.13	121.90
1	kY	72	THR	CB-CA-C	-5.55	102.17	110.88
1	le	103	ASP	CA-CB-CG	-5.55	107.05	112.60
1	lg	54	THR	CA-C-N	5.55	127.72	120.28
1	lg	54	THR	C-N-CA	5.55	127.72	120.28
1	ls	63	GLN	CG-CD-NE2	5.55	124.73	116.40
1	lt	226	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	lD	220	GLY	CA-C-O	5.55	124.95	118.96
1	lL	194	ALA	CA-C-N	5.55	128.20	120.65
1	lL	194	ALA	C-N-CA	5.55	128.20	120.65
1	2a	64	ALA	CA-C-N	5.55	128.17	120.29
1	2a	64	ALA	C-N-CA	5.55	128.17	120.29
1	2g	129	ILE	CA-C-O	5.55	126.72	120.95
1	2j	174	ALA	CB-CA-C	5.55	119.51	110.24
1	2l	224	PRO	O-C-N	5.55	130.13	122.64
1	2p	132	ARG	NH1-CZ-NH2	-5.55	112.09	119.30
1	2K	84	HIS	CG-CD2-NE2	5.55	112.75	107.20
1	31	67	GLN	CG-CD-NE2	-5.55	108.08	116.40
1	37	123	PRO	O-C-N	-5.55	116.08	122.85
1	39	105	ALA	CA-C-O	5.55	126.39	119.12
1	3c	76	GLU	N-CA-CB	5.55	118.37	110.16
1	3p	38	PRO	CA-C-N	5.55	127.98	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	38	PRO	C-N-CA	5.55	127.98	120.38
1	3s	183	ASN	CB-CG-OD1	5.55	131.90	120.80
1	3x	184	TRP	CA-CB-CG	5.55	124.14	113.60
1	3z	154	ARG	N-CA-C	5.55	119.28	109.96
1	44	33	SER	O-C-N	-5.55	117.22	121.55
1	4i	66	MET	CA-C-O	-5.55	114.67	120.55
1	4m	196	PRO	N-CA-CB	5.55	109.08	103.25
1	4m	226	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	4s	87	HIS	N-CA-C	5.55	117.45	110.24
1	4w	63	GLN	CB-CA-C	5.55	120.11	110.68
1	50	143	ARG	CA-C-N	5.55	128.50	120.79
1	50	143	ARG	C-N-CA	5.55	128.50	120.79
1	5d	23	TRP	CB-CG-CD1	-5.55	118.58	126.90
1	5h	129	ILE	N-CA-C	5.55	115.75	110.42
1	5o	208	ALA	N-CA-C	-5.55	104.93	112.26
1	5x	67	GLN	O-C-N	-5.55	116.24	122.12
1	5x	155	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	5y	138	LEU	CA-C-N	5.55	127.72	120.28
1	5y	138	LEU	C-N-CA	5.55	127.72	120.28
1	5B	189	LEU	N-CA-C	5.55	118.09	111.71
1	5Z	85	PRO	CA-C-N	5.55	130.07	123.19
1	5Z	85	PRO	C-N-CA	5.55	130.07	123.19
1	69	166	ASP	CA-C-N	5.55	128.75	120.31
1	69	166	ASP	C-N-CA	5.55	128.75	120.31
1	6q	204	ALA	O-C-N	-5.55	116.24	122.12
1	6r	197	ASP	O-C-N	-5.55	116.36	122.07
1	6C	81	ASP	CA-CB-CG	5.55	118.15	112.60
1	6E	222	GLY	O-C-N	-5.55	116.82	122.70
1	6X	224	PRO	N-CD-CG	5.55	111.52	103.20
1	6Z	136	LEU	N-CA-C	5.55	117.33	111.28
1	74	168	PHE	N-CA-C	5.55	117.01	111.07
1	7e	230	VAL	CA-C-N	5.55	131.69	121.70
1	7e	230	VAL	C-N-CA	5.55	131.69	121.70
1	7t	84	HIS	CB-CG-CD2	-5.55	123.99	131.20
1	7u	27	VAL	N-CA-C	5.55	116.28	110.62
1	7E	146	SER	O-C-N	-5.55	116.48	121.31
1	7F	165	VAL	CB-CA-C	-5.55	104.56	112.22
1	84	190	LEU	CB-CA-C	-5.55	101.93	110.81
1	8k	41	SER	CA-C-O	-5.55	114.67	120.55
1	8k	119	THR	CA-C-N	5.55	129.13	120.75
1	8k	119	THR	C-N-CA	5.55	129.13	120.75
1	8o	130	TYR	O-C-N	-5.55	116.32	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8T	199	LYS	N-CA-C	-5.55	105.23	111.28
1	91	32	PHE	CA-CB-CG	-5.55	108.25	113.80
1	95	17	PRO	N-CA-CB	5.55	108.62	103.46
1	96	74	ASN	O-C-N	-5.55	115.82	122.15
1	9j	139	ASN	O-C-N	-5.55	115.44	122.27
1	9s	65	ALA	N-CA-C	5.55	117.33	111.28
1	9G	58	THR	CA-C-N	5.55	127.55	120.56
1	9G	58	THR	C-N-CA	5.55	127.55	120.56
1	9H	33	SER	CA-C-N	5.55	125.22	119.56
1	9H	33	SER	C-N-CA	5.55	125.22	119.56
1	9J	12	HIS	CA-C-N	5.55	131.30	122.59
1	9J	12	HIS	C-N-CA	5.55	131.30	122.59
1	9O	62	HIS	CA-CB-CG	5.55	119.35	113.80
1	a3	110	THR	CA-CB-OG1	5.55	117.92	109.60
1	a5	114	GLN	N-CA-CB	-5.55	101.96	110.01
1	a5	182	LYS	CB-CA-C	5.55	119.69	110.81
1	ae	57	ASN	CA-CB-CG	-5.55	107.05	112.60
1	11	187	GLU	N-CA-CB	-5.55	102.96	110.67
1	al	143	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	at	177	ALA	CA-C-O	5.55	126.35	120.36
1	au	36	VAL	O-C-N	-5.55	115.63	122.57
1	13	50	GLN	N-CA-C	5.55	117.33	111.28
1	13	97	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	aG	119	THR	N-CA-C	-5.55	106.09	112.92
1	aJ	7	GLN	O-C-N	-5.55	116.72	123.27
1	aQ	173	ARG	NE-CZ-NH1	-5.55	115.95	121.50
1	b0	29	GLU	N-CA-C	5.55	118.52	111.69
1	bb	63	GLN	N-CA-C	5.55	117.33	111.28
1	bh	41	SER	N-CA-C	5.55	117.33	111.28
1	bA	143	ARG	CA-C-N	5.55	127.98	120.38
1	bA	143	ARG	C-N-CA	5.55	127.98	120.38
1	bD	39	MET	CA-C-N	5.55	127.72	120.28
1	bD	39	MET	C-N-CA	5.55	127.72	120.28
1	bN	116	GLY	CA-C-N	5.55	127.65	120.44
1	bN	116	GLY	C-N-CA	5.55	127.65	120.44
1	c1	110	THR	CA-C-N	5.55	128.03	120.54
1	c1	110	THR	C-N-CA	5.55	128.03	120.54
1	c2	42	ALA	CA-C-N	5.55	127.72	120.28
1	c2	42	ALA	C-N-CA	5.55	127.72	120.28
1	c2	158	LYS	N-CA-C	5.55	119.05	112.72
1	ci	197	ASP	CA-CB-CG	-5.55	107.05	112.60
1	cl	132	ARG	CA-C-N	5.55	127.72	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cl	132	ARG	C-N-CA	5.55	127.72	120.28
1	1e	194	ALA	O-C-N	-5.55	116.26	122.75
1	cw	140	LYS	N-CA-C	5.55	117.02	110.97
1	cI	120	HIS	CA-C-O	5.55	128.45	120.51
1	cJ	80	TRP	CB-CG-CD2	-5.55	119.03	126.80
1	cO	88	ALA	N-CA-CB	-5.55	102.28	110.49
1	cR	167	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	cX	213	GLU	CA-C-N	5.55	128.17	120.29
1	cX	213	GLU	C-N-CA	5.55	128.17	120.29
1	d8	55	MET	CA-C-N	5.55	127.72	120.28
1	d8	55	MET	C-N-CA	5.55	127.72	120.28
1	dl	136	LEU	CD1-CG-CD2	-5.55	98.59	110.80
1	dn	87	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	dL	32	PHE	N-CA-C	5.55	118.06	110.24
1	dL	49	PRO	CA-C-N	5.55	127.72	120.28
1	dL	49	PRO	C-N-CA	5.55	127.72	120.28
1	dL	96	MET	CA-C-O	5.55	128.45	120.51
1	dV	103	ASP	CA-CB-CG	-5.55	107.05	112.60
1	e6	30	LYS	CA-C-O	5.55	126.66	119.95
1	ed	210	THR	O-C-N	-5.55	116.61	123.33
1	eh	50	GLN	O-C-N	-5.55	116.24	122.12
1	eo	6	LEU	N-CA-C	5.55	116.97	108.42
1	ep	51	ASP	CA-CB-CG	-5.55	107.05	112.60
1	ep	140	LYS	CA-C-N	5.55	127.55	120.56
1	ep	140	LYS	C-N-CA	5.55	127.55	120.56
1	ep	160	PRO	O-C-N	-5.55	115.15	122.64
1	eq	131	LYS	CA-C-O	-5.55	114.67	120.55
1	er	82	ARG	N-CA-C	5.55	119.89	113.18
1	et	155	GLN	O-C-N	-5.55	116.46	123.01
1	ez	23	TRP	CH2-CZ2-CE2	5.55	124.71	117.50
1	eA	40	PHE	CA-CB-CG	5.55	119.35	113.80
1	eV	224	PRO	N-CA-CB	5.55	109.08	103.25
1	eX	228	ALA	CA-C-O	-5.55	115.26	121.81
1	eY	180	GLU	N-CA-C	5.55	117.33	111.28
1	f9	37	ILE	N-CA-CB	-5.55	106.12	110.45
1	fj	149	SER	CB-CA-C	5.55	118.88	109.50
1	fm	129	ILE	O-C-N	-5.55	116.47	121.91
1	fr	96	MET	CA-C-O	5.55	127.97	121.87
1	fG	3	VAL	O-C-N	-5.55	115.76	122.59
1	fS	113	GLU	CA-C-N	5.55	127.72	120.28
1	fS	113	GLU	C-N-CA	5.55	127.72	120.28
1	g1	120	HIS	CG-CD2-NE2	5.55	112.75	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	117	TRP	CA-C-N	5.55	128.27	120.28
1	b	117	TRP	C-N-CA	5.55	128.27	120.28
1	r	108	THR	N-CA-CB	5.55	119.80	110.92
1	u	67	GLN	N-CA-CB	-5.55	101.96	110.12
1	x	93	PRO	N-CA-C	5.55	119.94	110.95
1	I	192	GLN	N-CA-C	5.55	117.33	111.28
1	J	38	PRO	CA-N-CD	-5.55	104.23	112.00
1	W	229	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	ga	100	ARG	CG-CD-NE	-5.55	99.80	112.00
1	gh	224	PRO	O-C-N	5.55	128.89	122.23
1	gv	74	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	hl	222	GLY	CA-C-N	5.55	130.58	121.87
1	hl	222	GLY	C-N-CA	5.55	130.58	121.87
1	hu	111	LEU	CA-C-O	5.55	126.64	120.82
1	hG	190	LEU	CB-CA-C	5.55	119.59	110.88
1	hP	57	ASN	CA-C-N	5.55	127.72	120.28
1	hP	57	ASN	C-N-CA	5.55	127.72	120.28
1	i9	111	LEU	CA-C-O	5.55	126.84	120.90
1	ig	177	ALA	CA-C-N	5.55	129.58	121.31
1	ig	177	ALA	C-N-CA	5.55	129.58	121.31
1	iV	102	SER	CA-C-N	5.55	130.11	120.68
1	iV	102	SER	C-N-CA	5.55	130.11	120.68
1	j9	31	ALA	N-CA-C	5.55	119.31	112.54
1	jj	63	GLN	CA-C-O	-5.55	114.67	120.55
1	jw	45	GLU	CA-C-N	5.55	131.00	121.07
1	jw	45	GLU	C-N-CA	5.55	131.00	121.07
1	jw	144	MET	CA-C-O	5.55	126.34	119.79
1	jA	201	ILE	CA-CB-CG1	5.55	119.83	110.40
1	jB	117	TRP	CA-C-O	-5.55	111.84	119.05
1	jG	142	VAL	O-C-N	5.55	127.35	121.91
1	1Z	11	VAL	O-C-N	-5.55	117.21	122.98
1	k7	21	ASN	CB-CG-ND2	-5.55	108.08	116.40
1	kx	99	PRO	CB-CA-C	-5.55	104.30	111.46
1	kD	5	ASN	OD1-CG-ND2	5.55	128.15	122.60
1	kH	73	ILE	CA-CB-CG1	5.55	119.83	110.40
1	kJ	22	ALA	CA-C-N	5.55	127.65	120.44
1	kJ	22	ALA	C-N-CA	5.55	127.65	120.44
1	kU	169	TYR	CA-C-O	-5.55	114.67	120.55
1	lf	177	ALA	CA-C-N	5.55	128.98	120.82
1	lf	177	ALA	C-N-CA	5.55	128.98	120.82
1	lu	6	LEU	N-CA-C	5.55	120.00	113.23
1	lx	7	GLN	CB-CG-CD	5.55	122.03	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ly	16	SER	N-CA-C	5.55	117.66	109.50
1	lH	58	THR	N-CA-CB	5.55	118.76	110.22
1	2b	80	TRP	N-CA-CB	5.55	118.21	109.94
1	2f	176	GLN	O-C-N	-5.55	116.55	123.04
1	2w	97	ARG	NH1-CZ-NH2	-5.55	112.09	119.30
1	3w	22	ALA	O-C-N	-5.55	115.83	122.15
1	46	19	THR	N-CA-CB	5.55	118.06	110.01
1	4b	62	HIS	O-C-N	-5.55	116.40	122.67
1	4y	192	GLN	O-C-N	-5.55	116.24	122.12
1	4B	135	ILE	CA-C-O	5.55	126.72	120.95
1	4Y	96	MET	CA-C-N	5.55	129.58	121.31
1	4Y	96	MET	C-N-CA	5.55	129.58	121.31
1	52	211	LEU	O-C-N	-5.55	115.73	122.22
1	53	142	VAL	CB-CA-C	-5.55	104.71	111.87
1	5H	206	GLY	CA-C-N	5.55	126.78	119.84
1	5H	206	GLY	C-N-CA	5.55	126.78	119.84
1	5R	105	ALA	O-C-N	-5.55	114.80	122.46
1	5U	105	ALA	N-CA-C	5.55	119.91	113.20
1	6x	97	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	7Z	164	TYR	CA-C-N	5.55	127.55	120.56
1	7Z	164	TYR	C-N-CA	5.55	127.55	120.56
1	8l	117	TRP	CA-C-O	5.55	126.43	120.55
1	8o	99	PRO	N-CA-CB	5.55	108.18	103.19
1	8D	128	GLU	CB-CA-C	-5.55	102.17	110.88
1	8D	142	VAL	CB-CA-C	5.55	119.63	112.14
1	8E	64	ALA	N-CA-C	5.55	117.77	111.11
1	8S	103	ASP	CA-C-O	5.55	126.41	120.70
1	9p	204	ALA	N-CA-C	5.55	117.01	111.07
1	9B	1	PRO	CB-CA-C	5.55	120.64	110.10
1	9L	112	GLN	N-CA-CB	-5.55	101.67	109.94
1	9M	58	THR	N-CA-C	5.55	119.31	112.54
1	ao	37	ILE	CA-C-O	-5.55	114.97	118.69
1	aU	142	VAL	CA-C-N	5.55	128.27	120.28
1	aU	142	VAL	C-N-CA	5.55	128.27	120.28
1	b4	101	GLY	CA-C-O	5.55	126.39	120.40
1	bL	128	GLU	O-C-N	-5.55	116.26	122.03
1	c5	96	MET	CA-C-O	-5.55	114.60	120.92
1	cb	26	VAL	N-CA-C	-5.55	105.12	110.72
1	cB	183	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	cC	189	LEU	O-C-N	-5.55	116.24	122.12
1	cD	3	VAL	CA-C-O	5.55	126.90	121.19
1	cN	154	ARG	CA-C-N	5.55	129.23	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cN	154	ARG	C-N-CA	5.55	129.23	121.02
1	d7	130	TYR	N-CA-C	5.55	117.41	111.36
1	d8	107	THR	N-CA-C	-5.55	106.87	113.97
1	dC	179	GLN	O-C-N	-5.55	116.32	122.09
1	1m	76	GLU	N-CA-CB	5.55	118.37	110.16
1	dO	122	PRO	CA-C-N	5.55	125.87	119.93
1	dO	122	PRO	C-N-CA	5.55	125.87	119.93
1	dQ	66	MET	N-CA-C	5.55	117.33	111.28
1	en	118	MET	CG-SD-CE	-5.55	88.69	100.90
1	ey	162	ARG	CA-CB-CG	5.55	125.20	114.10
1	eJ	11	VAL	CB-CA-C	5.55	117.91	110.42
1	eK	193	ASN	N-CA-CB	-5.55	102.46	110.56
1	eL	14	ALA	CA-C-N	5.55	127.94	120.50
1	eL	14	ALA	C-N-CA	5.55	127.94	120.50
1	f3	5	ASN	CA-CB-CG	5.55	118.15	112.60
1	fk	169	TYR	N-CA-C	5.55	117.41	111.36
1	fP	187	GLU	CB-CA-C	5.55	120.80	112.31
1	fQ	44	SER	CA-C-O	5.55	126.05	119.56
1	b	152	ASP	CA-CB-CG	-5.55	107.05	112.60
1	h	5	ASN	O-C-N	-5.55	115.94	123.15
1	m	62	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	N	171	THR	OG1-CB-CG2	-5.55	98.20	109.30
1	N	210	THR	O-C-N	-5.55	115.83	122.65
1	P	140	LYS	CG-CD-CE	5.55	124.06	111.30
1	gc	128	GLU	N-CA-CB	-5.55	101.68	110.28
1	gh	14	ALA	N-CA-C	5.55	118.27	110.23
1	gj	161	PHE	CA-C-N	5.55	127.98	120.38
1	gj	161	PHE	C-N-CA	5.55	127.98	120.38
1	gE	42	ALA	O-C-N	-5.55	115.45	122.27
1	gJ	172	LEU	CA-C-O	5.55	126.43	120.55
1	gJ	227	LYS	N-CA-C	5.55	118.50	109.24
1	gY	16	SER	O-C-N	-5.55	116.36	121.30
1	h3	182	LYS	N-CA-C	5.55	117.33	111.28
1	h4	226	HIS	N-CA-C	5.55	118.52	110.42
1	h8	215	MET	CA-C-N	5.55	128.74	120.31
1	h8	215	MET	C-N-CA	5.55	128.74	120.31
1	he	97	ARG	O-C-N	-5.55	116.69	122.96
1	hf	151	LEU	CA-C-O	5.55	125.99	119.28
1	hj	80	TRP	CA-C-N	5.55	127.98	120.44
1	hj	80	TRP	C-N-CA	5.55	127.98	120.44
1	1J	108	THR	OG1-CB-CG2	-5.55	98.21	109.30
1	1J	226	HIS	CB-CG-CD2	-5.55	123.99	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ht	24	VAL	O-C-N	-5.55	116.49	121.87
1	hz	96	MET	CA-CB-CG	5.55	125.19	114.10
1	hD	127	GLY	CA-C-N	5.55	127.65	120.44
1	hD	127	GLY	C-N-CA	5.55	127.65	120.44
1	hE	51	ASP	CA-C-O	5.55	126.30	120.42
1	hI	214	MET	CB-CA-C	5.55	120.00	110.79
1	hK	170	LYS	CA-C-N	5.55	128.16	120.29
1	hK	170	LYS	C-N-CA	5.55	128.16	120.29
1	hO	168	PHE	CB-CG-CD2	5.55	130.13	120.70
1	hU	192	GLN	CA-C-O	5.55	126.43	120.55
1	hZ	35	GLU	CA-C-N	5.55	127.55	120.56
1	hZ	35	GLU	C-N-CA	5.55	127.55	120.56
1	i9	109	SER	CA-C-N	5.55	133.22	122.07
1	i9	109	SER	C-N-CA	5.55	133.22	122.07
1	iu	179	GLN	CA-CB-CG	5.55	125.19	114.10
1	iw	167	ARG	O-C-N	5.55	127.78	122.07
1	iB	75	GLU	CA-C-N	5.55	127.98	120.38
1	iB	75	GLU	C-N-CA	5.55	127.98	120.38
1	iO	39	MET	CA-C-O	5.55	126.43	120.55
1	j7	230	VAL	N-CA-CB	5.55	119.06	111.41
1	jd	7	GLN	CA-C-N	5.55	128.28	120.57
1	jd	7	GLN	C-N-CA	5.55	128.28	120.57
1	je	192	GLN	N-CA-C	5.55	118.04	111.33
1	jf	176	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	jC	210	THR	CA-C-N	5.55	127.71	120.28
1	jC	210	THR	C-N-CA	5.55	127.71	120.28
1	jH	173	ARG	O-C-N	5.55	128.00	122.12
1	jN	174	ALA	O-C-N	-5.55	116.24	122.12
1	jP	103	ASP	CA-C-O	-5.55	114.67	120.55
1	jP	167	ARG	CG-CD-NE	-5.55	99.80	112.00
1	jT	185	MET	O-C-N	-5.55	115.73	122.22
1	20	181	VAL	N-CA-C	5.55	116.28	110.62
1	kd	87	HIS	CA-C-O	5.55	126.35	120.36
1	kq	149	SER	CA-C-N	5.55	129.23	120.47
1	kq	149	SER	C-N-CA	5.55	129.23	120.47
1	kv	91	ILE	N-CA-C	5.55	116.48	110.21
1	kC	58	THR	CA-CB-OG1	5.55	117.92	109.60
1	kJ	133	TRP	CA-C-O	5.55	126.43	120.55
1	kK	192	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	kL	54	THR	CB-CA-C	-5.55	101.58	110.79
1	kT	53	ASN	OD1-CG-ND2	-5.55	117.05	122.60
1	kU	71	GLU	N-CA-C	5.55	117.01	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l6	39	MET	N-CA-CB	5.55	118.05	110.01
1	26	23	TRP	CB-CG-CD2	-5.55	119.03	126.80
1	l9	15	ILE	CA-C-O	5.55	127.56	121.13
1	lb	72	THR	CB-CA-C	-5.55	101.58	110.79
1	27	194	ALA	O-C-N	-5.55	116.26	122.75
1	lu	33	SER	O-C-N	-5.55	114.59	121.64
1	lx	121	ASN	CB-CG-ND2	5.55	124.72	116.40
1	lx	126	VAL	CA-C-N	5.55	126.10	120.00
1	lx	126	VAL	C-N-CA	5.55	126.10	120.00
1	lG	97	ARG	O-C-N	-5.55	117.27	123.48
1	lH	229	ARG	NE-CZ-NH2	-5.55	114.21	119.20
1	lR	123	PRO	O-C-N	-5.55	116.32	123.03
1	2q	34	PRO	N-CA-C	5.55	121.14	113.98
1	2r	106	GLY	CA-C-O	5.55	125.96	119.19
1	2s	153	ILE	N-CA-C	5.55	115.55	108.12
1	2x	130	TYR	CA-C-N	5.55	128.16	120.29
1	2x	130	TYR	C-N-CA	5.55	128.16	120.29
1	2I	203	LYS	N-CA-C	5.55	119.77	112.89
1	31	158	LYS	CA-C-O	5.55	128.44	120.51
1	38	16	SER	O-C-N	-5.55	113.50	121.54
1	3e	29	GLU	O-C-N	-5.55	116.36	122.07
1	3f	85	PRO	CA-C-N	5.55	131.95	121.97
1	3f	85	PRO	C-N-CA	5.55	131.95	121.97
1	3D	86	VAL	O-C-N	-5.55	117.01	122.67
1	3G	220	GLY	CA-C-N	5.55	130.22	122.23
1	3G	220	GLY	C-N-CA	5.55	130.22	122.23
1	43	79	GLU	O-C-N	-5.55	115.83	122.15
1	43	201	ILE	CA-C-N	5.55	127.71	120.28
1	43	201	ILE	C-N-CA	5.55	127.71	120.28
1	47	29	GLU	CB-CG-CD	5.55	122.03	112.60
1	4h	60	GLY	CA-C-N	5.55	125.37	120.10
1	4h	60	GLY	C-N-CA	5.55	125.37	120.10
1	4q	51	ASP	N-CA-C	5.55	117.77	111.11
1	4s	73	ILE	N-CA-CB	5.55	117.04	110.55
1	4t	90	PRO	CA-CB-CG	-5.55	93.96	104.50
1	4F	143	ARG	CA-C-O	5.55	126.43	120.55
1	4G	217	ALA	N-CA-C	5.55	117.45	110.24
1	4Z	171	THR	N-CA-C	5.55	117.01	111.07
1	57	141	ILE	CA-C-N	5.55	128.04	120.77
1	57	141	ILE	C-N-CA	5.55	128.04	120.77
1	5c	6	LEU	CA-C-O	-5.55	115.52	121.56
1	5i	195	ASN	N-CA-C	5.55	115.98	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	44	SER	N-CA-CB	5.55	119.79	110.92
1	5I	63	GLN	CG-CD-NE2	-5.55	108.08	116.40
1	5J	57	ASN	N-CA-CB	5.55	118.38	110.06
1	5L	196	PRO	CA-C-N	5.55	127.98	120.38
1	5L	196	PRO	C-N-CA	5.55	127.98	120.38
1	61	149	SER	N-CA-CB	5.55	119.06	110.46
1	6e	84	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	6n	62	HIS	CA-CB-CG	-5.55	108.25	113.80
1	6n	193	ASN	N-CA-C	-5.55	105.87	113.30
1	6n	202	LEU	CA-C-O	5.55	126.37	120.10
1	6s	149	SER	N-CA-CB	5.55	119.86	110.49
1	6y	113	GLU	N-CA-CB	5.55	118.37	110.16
1	6A	116	GLY	CA-C-O	5.55	126.46	120.75
1	6J	4	GLN	OE1-CD-NE2	-5.55	117.05	122.60
1	6M	178	SER	CB-CA-C	-5.55	100.85	109.61
1	6O	176	GLN	N-CA-C	5.55	117.45	110.24
1	7j	173	ARG	N-CA-C	5.55	117.33	111.28
1	8g	131	LYS	CA-C-N	5.55	127.71	120.28
1	8g	131	LYS	C-N-CA	5.55	127.71	120.28
1	8E	183	ASN	N-CA-CB	5.55	118.27	110.12
1	8H	161	PHE	O-C-N	-5.55	116.10	122.09
1	8I	226	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	8Q	100	ARG	NE-CZ-NH2	-5.55	114.21	119.20
1	8W	197	ASP	N-CA-C	5.55	117.13	111.14
1	8X	19	THR	N-CA-CB	5.55	118.05	110.01
1	8Z	199	LYS	N-CA-C	5.55	117.77	111.11
1	91	224	PRO	CA-C-O	-5.55	115.13	121.56
1	9j	148	THR	CA-C-O	5.55	126.47	120.43
1	9q	154	ARG	CA-C-O	5.55	127.39	121.45
1	9t	163	ASP	O-C-N	-5.55	115.83	122.15
1	9x	44	SER	O-C-N	-5.55	115.23	122.39
1	Y	142	VAL	CA-C-N	5.55	127.71	120.28
1	Y	142	VAL	C-N-CA	5.55	127.71	120.28
1	9X	128	GLU	N-CA-C	5.55	117.33	111.28
1	9Z	55	MET	CG-SD-CE	-5.55	88.70	100.90
1	a9	180	GLU	CA-C-N	5.55	128.30	120.42
1	a9	180	GLU	C-N-CA	5.55	128.30	120.42
1	ae	120	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	ah	71	GLU	CA-C-N	5.55	127.98	120.38
1	ah	71	GLU	C-N-CA	5.55	127.98	120.38
1	ai	53	ASN	N-CA-C	5.55	117.00	111.07
1	ao	162	ARG	N-CA-CB	5.55	118.27	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	197	ASP	CA-CB-CG	-5.55	107.05	112.60
1	aU	115	ILE	CA-CB-CG1	5.55	119.83	110.40
1	aW	54	THR	O-C-N	-5.55	116.36	122.07
1	aW	120	HIS	CA-CB-CG	-5.55	108.25	113.80
1	aX	144	MET	CA-C-O	5.55	126.64	120.82
1	b5	82	ARG	NE-CZ-NH2	5.55	124.19	119.20
1	b6	2	ILE	N-CA-C	-5.55	107.58	112.90
1	bb	165	VAL	CA-C-O	5.55	126.46	120.47
1	bj	143	ARG	CA-C-N	5.55	128.17	120.29
1	bj	143	ARG	C-N-CA	5.55	128.17	120.29
1	bq	119	THR	O-C-N	-5.55	115.27	122.37
1	bB	167	ARG	CA-C-N	5.55	127.65	120.44
1	bB	167	ARG	C-N-CA	5.55	127.65	120.44
1	bR	35	GLU	CA-C-O	5.55	125.76	119.27
1	1b	104	ILE	O-C-N	-5.55	116.49	121.87
1	c5	41	SER	CA-C-N	5.55	127.71	120.28
1	c5	41	SER	C-N-CA	5.55	127.71	120.28
1	c7	3	VAL	O-C-N	-5.55	117.10	122.92
1	c9	197	ASP	CB-CG-OD2	5.55	131.16	118.40
1	cc	169	TYR	CA-C-O	-5.55	114.67	120.55
1	ch	193	ASN	CA-CB-CG	-5.55	107.05	112.60
1	ci	226	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	cq	203	LYS	O-C-N	-5.55	116.36	122.07
1	cs	176	GLN	CB-CA-C	-5.55	100.80	110.17
1	cN	36	VAL	N-CA-C	-5.55	107.04	111.81
1	d2	96	MET	N-CA-C	5.55	122.61	110.80
1	db	143	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	df	125	PRO	CA-C-N	5.55	128.06	120.46
1	df	125	PRO	C-N-CA	5.55	128.06	120.46
1	di	107	THR	N-CA-CB	5.55	118.79	110.14
1	dr	64	ALA	CA-C-N	5.55	127.71	120.28
1	dr	64	ALA	C-N-CA	5.55	127.71	120.28
1	dw	72	THR	N-CA-CB	5.55	118.20	109.94
1	dE	26	VAL	CA-C-N	5.55	127.75	120.60
1	dE	26	VAL	C-N-CA	5.55	127.75	120.60
1	dG	208	ALA	CA-C-O	5.55	126.49	119.95
1	dZ	5	ASN	N-CA-CB	-5.55	102.25	110.90
1	e4	167	ARG	N-CA-C	-5.55	105.23	111.28
1	ef	77	ALA	CA-C-N	5.55	127.65	120.44
1	ef	77	ALA	C-N-CA	5.55	127.65	120.44
1	ej	228	ALA	CB-CA-C	5.55	119.29	111.86
1	eo	169	TYR	N-CA-CB	5.55	118.37	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eD	58	THR	N-CA-CB	5.55	118.76	110.22
1	1s	79	GLU	N-CA-C	5.55	118.04	111.33
1	eN	180	GLU	CB-CG-CD	5.55	122.03	112.60
1	eO	206	GLY	CA-C-N	5.55	125.56	119.90
1	eO	206	GLY	C-N-CA	5.55	125.56	119.90
1	eP	166	ASP	CB-CA-C	5.55	119.59	110.88
1	eQ	179	GLN	N-CA-C	5.55	118.09	111.71
1	eQ	201	ILE	CA-C-O	5.55	127.05	121.17
1	eV	50	GLN	N-CA-C	5.55	118.25	111.82
1	1v	145	TYR	N-CA-C	5.55	119.74	112.92
1	fq	3	VAL	CB-CA-C	5.55	119.08	111.31
1	fx	62	HIS	ND1-CG-CD2	5.55	111.65	106.10
1	fO	229	ARG	NE-CZ-NH1	5.55	127.05	121.50
1	fW	133	TRP	CG-CD2-CE3	-5.55	128.35	133.90
1	g5	2	ILE	CA-C-O	5.55	127.15	120.66
1	g6	63	GLN	N-CA-C	5.55	118.25	111.82
1	k	87	HIS	ND1-CE1-NE2	5.55	113.95	108.40
1	2	209	ALA	CA-C-N	5.55	129.65	120.94
1	2	209	ALA	C-N-CA	5.55	129.65	120.94
1	x	5	ASN	CA-CB-CG	-5.55	107.05	112.60
1	I	85	PRO	N-CA-CB	5.55	106.29	102.35
1	4	214	MET	CA-C-O	-5.55	114.99	120.70
1	P	136	LEU	CA-C-O	-5.55	115.00	120.82
1	5	84	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
1	7	227	LYS	CA-C-O	5.55	127.37	121.16
1	8	204	ALA	CA-C-N	5.55	127.71	120.28
1	8	204	ALA	C-N-CA	5.55	127.71	120.28
1	gm	42	ALA	CB-CA-C	-5.54	101.42	110.85
1	go	121	ASN	CA-CB-CG	-5.54	107.06	112.60
1	gt	208	ALA	CA-C-N	5.54	129.12	120.75
1	gt	208	ALA	C-N-CA	5.54	129.12	120.75
1	hh	49	PRO	CB-CA-C	5.54	120.71	111.56
1	hj	205	LEU	O-C-N	-5.54	115.45	122.27
1	hu	87	HIS	CA-C-O	-5.54	115.50	121.38
1	hO	173	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	id	60	GLY	CA-C-N	5.54	128.27	121.06
1	id	60	GLY	C-N-CA	5.54	128.27	121.06
1	ie	75	GLU	N-CA-C	5.54	117.00	111.07
1	it	174	ALA	N-CA-C	5.54	117.40	111.36
1	iP	23	TRP	CA-C-O	5.54	126.64	120.82
1	j1	21	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	jr	32	PHE	CB-CG-CD2	-5.54	111.27	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jr	62	HIS	CB-CG-CD2	-5.54	123.99	131.20
1	jv	173	ARG	CG-CD-NE	-5.54	99.80	112.00
1	k4	181	VAL	CA-C-O	-5.54	114.97	120.85
1	kd	57	ASN	CA-C-O	5.54	126.36	120.10
1	kj	128	GLU	CA-C-N	5.54	127.75	120.60
1	kj	128	GLU	C-N-CA	5.54	127.75	120.60
1	kP	47	ALA	N-CA-C	5.54	117.45	110.24
1	kR	212	GLU	CA-C-N	5.54	127.71	120.28
1	kR	212	GLU	C-N-CA	5.54	127.71	120.28
1	l2	97	ARG	CA-C-O	-5.54	115.77	121.87
1	lo	219	GLN	CA-C-O	5.54	127.24	120.92
1	lt	187	GLU	N-CA-C	5.54	120.16	113.17
1	lI	75	GLU	CA-C-O	5.54	126.19	119.31
1	lQ	181	VAL	CA-C-O	-5.54	115.29	121.17
1	2i	190	LEU	CA-C-N	5.54	128.06	120.46
1	2i	190	LEU	C-N-CA	5.54	128.06	120.46
1	2L	209	ALA	CA-C-O	5.54	127.29	121.19
1	2N	111	LEU	CA-C-N	-5.54	112.85	120.28
1	2N	111	LEU	C-N-CA	-5.54	112.85	120.28
1	2V	154	ARG	N-CA-C	5.54	117.52	108.76
1	2Y	176	GLN	CA-C-O	5.54	125.47	119.15
1	30	39	MET	CA-C-O	5.54	126.83	120.90
1	32	173	ARG	NE-CZ-NH1	5.54	127.05	121.50
1	33	66	MET	CG-SD-CE	-5.54	88.70	100.90
1	3z	16	SER	CA-C-N	5.54	125.64	119.32
1	3z	16	SER	C-N-CA	5.54	125.64	119.32
1	3H	87	HIS	CE1-NE2-CD2	-5.54	103.45	109.00
1	3W	5	ASN	CA-CB-CG	5.54	118.14	112.60
1	4H	24	VAL	O-C-N	-5.54	116.48	121.91
1	4W	183	ASN	O-C-N	-5.54	116.36	122.07
1	5s	195	ASN	CA-C-N	5.54	126.77	119.84
1	5s	195	ASN	C-N-CA	5.54	126.77	119.84
1	5x	223	GLY	CA-C-N	-5.54	113.97	120.12
1	5x	223	GLY	C-N-CA	-5.54	113.97	120.12
1	5J	96	MET	CB-CA-C	-5.54	100.85	109.61
1	63	218	CYS	N-CA-C	5.54	119.49	111.56
1	6R	53	ASN	N-CA-CB	5.54	118.27	110.12
1	6T	154	ARG	N-CA-C	5.54	122.61	110.80
1	6V	166	ASP	CA-CB-CG	5.54	118.14	112.60
1	6W	54	THR	N-CA-CB	5.54	118.37	110.16
1	7f	63	GLN	CA-C-N	5.54	130.06	120.58
1	7f	63	GLN	C-N-CA	5.54	130.06	120.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	2	ILE	CB-CA-C	-5.54	103.90	111.33
1	7w	153	ILE	CB-CA-C	-5.54	105.24	111.23
1	7W	146	SER	CA-C-N	5.54	125.55	119.89
1	7W	146	SER	C-N-CA	5.54	125.55	119.89
1	7X	184	TRP	CZ3-CH2-CZ2	-5.54	114.29	121.50
1	89	167	ARG	CA-C-N	5.54	127.65	120.44
1	89	167	ARG	C-N-CA	5.54	127.65	120.44
1	8c	228	ALA	CA-C-N	5.54	129.12	120.75
1	8c	228	ALA	C-N-CA	5.54	129.12	120.75
1	8s	17	PRO	CB-CA-C	5.54	120.71	111.56
1	8u	123	PRO	CB-CA-C	5.54	118.49	111.39
1	9F	139	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	9X	39	MET	CA-C-O	5.54	126.43	120.55
1	9Y	25	LYS	N-CA-C	5.54	118.04	111.33
1	9Z	154	ARG	N-CA-C	5.54	122.61	110.80
1	Z	12	HIS	CB-CG-CD2	-5.54	123.99	131.20
1	aP	88	ALA	CA-C-O	5.54	127.30	120.92
1	aP	143	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	aW	163	ASP	O-C-N	-5.54	114.90	122.33
1	br	28	GLU	N-CA-C	5.54	117.32	111.28
1	18	210	THR	CA-CB-CG2	5.54	119.93	110.50
1	bu	18	ARG	CA-C-N	5.54	128.74	120.31
1	bu	18	ARG	C-N-CA	5.54	128.74	120.31
1	19	168	PHE	CA-C-N	5.54	127.65	120.44
1	19	168	PHE	C-N-CA	5.54	127.65	120.44
1	bO	187	GLU	CA-CB-CG	5.54	125.19	114.10
1	1d	193	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	cj	79	GLU	O-C-N	-5.54	116.24	122.12
1	cE	166	ASP	CA-C-N	5.54	127.65	120.44
1	cE	166	ASP	C-N-CA	5.54	127.65	120.44
1	cL	31	ALA	CB-CA-C	5.54	124.10	116.34
1	cU	65	ALA	N-CA-CB	-5.54	101.69	110.28
1	1i	213	GLU	O-C-N	-5.54	116.36	122.07
1	dE	148	THR	CA-CB-OG1	5.54	117.92	109.60
1	dY	188	THR	O-C-N	-5.54	114.92	122.19
1	fq	142	VAL	CA-C-N	5.54	127.98	120.44
1	fq	142	VAL	C-N-CA	5.54	127.98	120.44
1	fH	136	LEU	CA-C-N	5.54	132.28	121.41
1	fH	136	LEU	C-N-CA	5.54	132.28	121.41
1	fT	5	ASN	CA-C-O	5.54	127.24	120.92
1	g0	163	ASP	CA-C-O	5.54	126.30	120.42
1	g6	188	THR	N-CA-CB	5.54	118.25	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k	24	VAL	CA-CB-CG2	5.54	119.83	110.40
1	r	216	THR	N-CA-CB	5.54	118.05	110.01
1	C	222	GLY	O-C-N	-5.54	115.49	122.70
1	V	11	VAL	CA-C-O	5.54	126.86	120.76
1	gi	174	ALA	CA-C-O	5.54	124.90	118.97
1	gr	130	TYR	CA-C-N	5.54	128.16	120.29
1	gr	130	TYR	C-N-CA	5.54	128.16	120.29
1	gu	11	VAL	CA-C-O	5.54	126.86	120.76
1	gA	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	gP	158	LYS	CA-C-O	5.54	125.78	119.18
1	gS	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	h1	227	LYS	N-CA-C	5.54	119.27	109.96
1	1I	122	PRO	N-CA-CB	5.54	108.70	102.60
1	hu	117	TRP	CD2-CE2-CZ2	-5.54	116.86	122.40
1	hC	214	MET	CA-C-O	-5.54	113.59	119.97
1	hD	91	ILE	CA-CB-CG1	5.54	119.82	110.40
1	hJ	67	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	hT	16	SER	CB-CA-C	-5.54	101.40	109.38
1	ii	39	MET	CB-CA-C	5.54	119.99	110.79
1	im	113	GLU	CB-CG-CD	-5.54	103.18	112.60
1	iq	33	SER	N-CA-CB	5.54	116.92	111.10
1	iA	174	ALA	N-CA-C	5.54	119.30	112.54
1	iI	23	TRP	O-C-N	-5.54	116.32	122.09
1	iM	84	HIS	CA-C-N	5.54	126.77	119.84
1	iM	84	HIS	C-N-CA	5.54	126.77	119.84
1	1S	174	ALA	N-CA-C	5.54	120.16	112.90
1	iU	146	SER	N-CA-C	5.54	121.24	108.93
1	iX	23	TRP	CD2-CE2-CZ2	5.54	127.94	122.40
1	iX	185	MET	N-CA-C	5.54	117.32	111.28
1	iZ	175	GLU	CA-C-O	-5.54	114.95	121.44
1	jz	119	THR	CA-C-O	5.54	125.99	119.28
1	jH	182	LYS	CA-C-N	5.54	128.02	120.54
1	jH	182	LYS	C-N-CA	5.54	128.02	120.54
1	jI	179	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	jM	108	THR	CA-C-O	5.54	125.92	119.32
1	jS	159	GLU	O-C-N	-5.54	116.41	122.06
1	k1	30	LYS	CA-C-N	5.54	128.26	120.28
1	k1	30	LYS	C-N-CA	5.54	128.26	120.28
1	k4	116	GLY	CA-C-O	-5.54	115.01	121.00
1	20	200	THR	CB-CA-C	-5.54	101.59	110.79
1	21	131	LYS	CA-C-O	5.54	126.64	120.82
1	kn	9	GLN	CA-C-O	5.54	126.23	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ks	209	ALA	N-CA-C	5.54	118.62	110.30
1	kw	110	THR	CA-CB-CG2	-5.54	101.08	110.50
1	kG	151	LEU	N-CA-C	5.54	117.32	111.28
1	kK	18	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	kN	147	PRO	N-CA-CB	5.54	109.65	103.44
1	24	137	GLY	N-CA-C	5.54	119.35	112.64
1	kP	77	ALA	O-C-N	-5.54	116.24	122.12
1	kY	165	VAL	CA-C-O	5.54	126.72	120.95
1	l1	29	GLU	N-CA-CB	5.54	118.52	110.26
1	la	62	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	ld	42	ALA	CA-C-N	5.54	128.74	120.31
1	ld	42	ALA	C-N-CA	5.54	128.74	120.31
1	lf	141	ILE	N-CA-C	5.54	115.74	110.42
1	lA	195	ASN	CA-C-N	5.54	126.77	119.84
1	lA	195	ASN	C-N-CA	5.54	126.77	119.84
1	lG	220	GLY	O-C-N	-5.54	116.19	122.67
1	2a	182	LYS	O-C-N	-5.54	115.83	122.15
1	2d	226	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	2f	10	MET	N-CA-CB	5.54	118.50	109.69
1	2f	193	ASN	CA-CB-CG	-5.54	107.06	112.60
1	2h	172	LEU	CA-C-N	5.54	127.71	120.28
1	2h	172	LEU	C-N-CA	5.54	127.71	120.28
1	2q	26	VAL	CA-C-O	5.54	127.56	120.96
1	2B	50	GLN	CA-C-O	5.54	126.43	120.55
1	2B	188	THR	CA-CB-CG2	-5.54	101.08	110.50
1	3a	5	ASN	CA-CB-CG	-5.54	107.06	112.60
1	3a	68	MET	CA-C-N	5.54	127.65	120.44
1	3a	68	MET	C-N-CA	5.54	127.65	120.44
1	3b	226	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	3c	84	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	3d	49	PRO	CA-C-N	5.54	127.71	120.28
1	3d	49	PRO	C-N-CA	5.54	127.71	120.28
1	3k	167	ARG	CD-NE-CZ	-5.54	116.64	124.40
1	3l	62	HIS	N-CA-C	5.54	119.08	111.54
1	3x	40	PHE	N-CA-C	5.54	117.32	111.28
1	3K	24	VAL	N-CA-C	5.54	115.74	110.42
1	3N	187	GLU	N-CA-C	5.54	120.15	113.17
1	3O	4	GLN	N-CA-C	5.54	118.32	110.50
1	3S	82	ARG	O-C-N	-5.54	116.25	122.12
1	48	22	ALA	CB-CA-C	-5.54	101.43	110.85
1	4h	115	ILE	CA-C-N	5.54	126.09	119.94
1	4h	115	ILE	C-N-CA	5.54	126.09	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	170	LYS	O-C-N	-5.54	116.36	122.07
1	4k	183	ASN	CA-C-N	5.54	127.71	120.28
1	4k	183	ASN	C-N-CA	5.54	127.71	120.28
1	4D	214	MET	N-CA-C	5.54	117.32	111.28
1	4P	84	HIS	CA-C-N	5.54	125.55	119.89
1	4P	84	HIS	C-N-CA	5.54	125.55	119.89
1	50	76	GLU	O-C-N	-5.54	115.45	122.27
1	5a	96	MET	N-CA-C	5.54	118.72	110.52
1	5b	60	GLY	CA-C-N	5.54	128.88	121.01
1	5b	60	GLY	C-N-CA	5.54	128.88	121.01
1	5i	132	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	5n	195	ASN	CA-C-N	5.54	126.77	119.84
1	5n	195	ASN	C-N-CA	5.54	126.77	119.84
1	5N	88	ALA	CA-C-N	5.54	129.40	121.42
1	5N	88	ALA	C-N-CA	5.54	129.40	121.42
1	5R	16	SER	CA-C-N	5.54	125.16	119.56
1	5R	16	SER	C-N-CA	5.54	125.16	119.56
1	5W	166	ASP	N-CA-CB	-5.54	101.97	110.01
1	60	207	PRO	N-CA-C	5.54	120.85	114.03
1	6b	27	VAL	CB-CA-C	5.54	119.28	112.02
1	6i	177	ALA	N-CA-C	5.54	117.45	110.24
1	6k	10	MET	O-C-N	-5.54	116.05	122.87
1	6p	74	ASN	CB-CG-ND2	5.54	124.71	116.40
1	6C	200	THR	O-C-N	-5.54	116.36	122.07
1	6C	225	GLY	N-CA-C	5.54	121.15	111.78
1	7a	115	ILE	CA-C-O	5.54	126.50	120.57
1	7b	51	ASP	CA-CB-CG	-5.54	107.06	112.60
1	7i	68	MET	O-C-N	-5.54	116.24	122.12
1	7r	192	GLN	CA-C-N	5.54	131.51	122.81
1	7r	192	GLN	C-N-CA	5.54	131.51	122.81
1	7w	130	TYR	CA-C-N	5.54	127.71	120.28
1	7w	130	TYR	C-N-CA	5.54	127.71	120.28
1	7C	37	ILE	CB-CA-C	5.54	118.97	113.70
1	7E	143	ARG	N-CA-C	5.54	117.76	111.11
1	7K	211	LEU	CA-C-N	5.54	127.71	120.28
1	7K	211	LEU	C-N-CA	5.54	127.71	120.28
1	7V	33	SER	CA-C-N	5.54	125.90	119.47
1	7V	33	SER	C-N-CA	5.54	125.90	119.47
1	7Y	198	CYS	CA-C-O	-5.54	114.67	120.55
1	83	102	SER	N-CA-C	5.54	117.40	111.36
1	8b	142	VAL	N-CA-CB	5.54	117.67	110.57
1	8C	150	ILE	CA-CB-CG1	5.54	119.82	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8F	133	TRP	N-CA-CB	5.54	118.05	110.01
1	8F	197	ASP	CA-C-N	5.54	128.26	120.28
1	8F	197	ASP	C-N-CA	5.54	128.26	120.28
1	8G	28	GLU	CA-CB-CG	5.54	125.19	114.10
1	8H	51	ASP	CA-CB-CG	-5.54	107.06	112.60
1	8J	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	8N	76	GLU	N-CA-CB	5.54	118.27	110.12
1	9f	189	LEU	N-CA-C	5.54	117.76	111.11
1	9j	62	HIS	CG-ND1-CE1	-5.54	99.88	109.30
1	9y	142	VAL	N-CA-C	5.54	116.18	110.36
1	9D	96	MET	CA-C-N	5.54	128.97	120.82
1	9D	96	MET	C-N-CA	5.54	128.97	120.82
1	9O	91	ILE	CA-C-N	5.54	128.82	122.83
1	9O	91	ILE	C-N-CA	5.54	128.82	122.83
1	Y	35	GLU	O-C-N	-5.54	114.81	122.46
1	9S	122	PRO	CA-C-N	5.54	125.49	119.78
1	9S	122	PRO	C-N-CA	5.54	125.49	119.78
1	af	181	VAL	O-C-N	-5.54	116.49	121.87
1	13	52	LEU	N-CA-CB	5.54	118.27	110.12
1	aH	57	ASN	CB-CA-C	-5.54	100.00	109.65
1	aJ	68	MET	O-C-N	-5.54	115.73	122.22
1	bp	226	HIS	CB-CG-CD2	-5.54	123.99	131.20
1	bB	37	ILE	N-CA-C	5.54	119.00	112.35
1	bH	161	PHE	CA-C-N	5.54	127.71	120.28
1	bH	161	PHE	C-N-CA	5.54	127.71	120.28
1	bU	65	ALA	N-CA-C	5.54	117.13	111.14
1	cb	4	GLN	CA-C-O	5.54	127.06	121.07
1	cd	68	MET	N-CA-C	5.54	118.04	111.33
1	ch	209	ALA	O-C-N	-5.54	115.22	122.59
1	cl	72	THR	N-CA-C	5.54	117.32	111.28
1	cn	2	ILE	O-C-N	-5.54	117.36	123.18
1	co	121	ASN	CB-CG-OD1	5.54	131.89	120.80
1	cq	129	ILE	N-CA-CB	5.54	117.03	110.55
1	cw	21	ASN	CB-CA-C	-5.54	101.59	110.79
1	cz	174	ALA	O-C-N	-5.54	116.36	122.07
1	cF	201	ILE	N-CA-CB	5.54	117.04	110.55
1	cJ	139	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	cQ	62	HIS	N-CA-C	5.54	119.28	111.52
1	cU	228	ALA	O-C-N	-5.54	115.72	122.82
1	cX	105	ALA	CA-C-N	5.54	131.50	122.69
1	cX	105	ALA	C-N-CA	5.54	131.50	122.69
1	db	226	HIS	N-CA-C	5.54	118.89	111.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dk	213	GLU	CA-C-N	5.54	127.65	120.44
1	dk	213	GLU	C-N-CA	5.54	127.65	120.44
1	du	46	GLY	O-C-N	-5.54	116.89	122.54
1	dz	42	ALA	N-CA-CB	-5.54	101.97	110.12
1	dJ	35	GLU	CA-C-N	5.54	129.39	120.30
1	dJ	35	GLU	C-N-CA	5.54	129.39	120.30
1	dV	115	ILE	CA-C-N	5.54	126.25	119.99
1	dV	115	ILE	C-N-CA	5.54	126.25	119.99
1	1o	70	LYS	N-CA-CB	-5.54	101.97	110.01
1	e7	62	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	ef	142	VAL	CA-C-O	5.54	127.05	121.17
1	eq	84	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	ey	86	VAL	N-CA-C	-5.54	100.20	108.46
1	eO	30	LYS	CB-CA-C	-5.54	101.35	110.72
1	eX	182	LYS	CA-C-N	5.54	128.02	120.54
1	eX	182	LYS	C-N-CA	5.54	128.02	120.54
1	eY	84	HIS	CA-C-N	5.54	126.77	119.84
1	eY	84	HIS	C-N-CA	5.54	126.77	119.84
1	fD	86	VAL	CA-CB-CG2	5.54	119.82	110.40
1	fM	86	VAL	N-CA-C	5.54	120.87	109.34
1	fS	211	LEU	CA-C-N	5.54	127.71	120.28
1	fS	211	LEU	C-N-CA	5.54	127.71	120.28
1	fY	4	GLN	CG-CD-OE1	5.54	131.89	120.80
1	g4	69	LEU	CA-C-N	5.54	127.71	120.28
1	g4	69	LEU	C-N-CA	5.54	127.71	120.28
1	c	164	TYR	N-CA-C	5.54	117.32	111.28
1	f	62	HIS	CA-C-O	5.54	128.75	122.37
1	i	120	HIS	CA-C-N	5.54	131.93	122.06
1	i	120	HIS	C-N-CA	5.54	131.93	122.06
1	t	143	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	w	21	ASN	OD1-CG-ND2	5.54	128.14	122.60
1	E	197	ASP	CA-C-N	5.54	127.98	120.44
1	E	197	ASP	C-N-CA	5.54	127.98	120.44
1	F	145	TYR	O-C-N	-5.54	115.02	122.22
1	J	36	VAL	N-CA-CB	5.54	118.08	110.54
1	Q	224	PRO	N-CA-CB	5.54	108.24	103.36
1	W	85	PRO	CA-C-N	5.54	131.95	121.97
1	W	85	PRO	C-N-CA	5.54	131.95	121.97
1	gg	159	GLU	CA-C-O	-5.54	115.19	119.46
1	gw	57	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	gK	152	ASP	CA-CB-CG	5.54	118.14	112.60
1	1F	125	PRO	CA-C-N	5.54	128.05	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1F	125	PRO	C-N-CA	5.54	128.05	120.46
1	h4	9	GLN	CA-C-N	5.54	129.22	121.24
1	h4	9	GLN	C-N-CA	5.54	129.22	121.24
1	h8	104	ILE	CA-C-O	5.54	126.71	120.95
1	hk	197	ASP	N-CA-C	5.54	117.32	111.28
1	hu	171	THR	CA-C-N	5.54	127.71	120.28
1	hu	171	THR	C-N-CA	5.54	127.71	120.28
1	hx	129	ILE	N-CA-C	5.54	115.74	110.42
1	hJ	27	VAL	CB-CA-C	-5.54	103.84	111.65
1	hM	132	ARG	O-C-N	-5.54	115.74	122.22
1	hQ	34	PRO	CA-C-N	5.54	128.73	120.31
1	hQ	34	PRO	C-N-CA	5.54	128.73	120.31
1	hQ	165	VAL	CA-C-O	5.54	126.71	120.95
1	hU	72	THR	N-CA-C	5.54	117.00	111.07
1	hZ	112	GLN	CA-C-N	5.54	127.64	120.44
1	hZ	112	GLN	C-N-CA	5.54	127.64	120.44
1	hZ	132	ARG	NH1-CZ-NH2	-5.54	112.10	119.30
1	1N	34	PRO	CA-C-N	5.54	129.98	120.72
1	1N	34	PRO	C-N-CA	5.54	129.98	120.72
1	1P	62	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	ir	22	ALA	CA-C-O	5.54	126.64	120.82
1	iv	115	ILE	CA-C-O	5.54	126.23	120.25
1	iG	184	TRP	CA-CB-CG	5.54	124.13	113.60
1	iL	58	THR	CA-C-N	5.54	128.00	120.63
1	iL	58	THR	C-N-CA	5.54	128.00	120.63
1	iZ	37	ILE	N-CA-CB	5.54	114.77	110.45
1	j3	100	ARG	CA-C-O	-5.54	115.62	121.88
1	ji	81	ASP	O-C-N	-5.54	115.45	122.27
1	jp	152	ASP	CA-CB-CG	5.54	118.14	112.60
1	jw	122	PRO	O-C-N	-5.54	110.57	121.10
1	jz	70	LYS	O-C-N	-5.54	116.25	122.12
1	jB	23	TRP	CA-C-N	5.54	127.75	120.60
1	jB	23	TRP	C-N-CA	5.54	127.75	120.60
1	jP	127	GLY	CA-C-N	5.54	128.16	120.29
1	jP	127	GLY	C-N-CA	5.54	128.16	120.29
1	jW	26	VAL	N-CA-CB	5.54	118.08	110.54
1	k1	143	ARG	CA-C-N	5.54	127.71	120.28
1	k1	143	ARG	C-N-CA	5.54	127.71	120.28
1	k5	100	ARG	O-C-N	-5.54	116.47	122.79
1	kj	71	GLU	N-CA-C	5.54	118.03	111.33
1	kA	188	THR	O-C-N	-5.54	116.05	122.03
1	kD	65	ALA	O-C-N	-5.54	115.83	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	23	110	THR	CA-C-O	5.54	128.26	121.56
1	24	165	VAL	CA-C-O	5.54	126.71	120.95
1	kQ	23	TRP	CA-C-N	5.54	127.75	120.60
1	kQ	23	TRP	C-N-CA	5.54	127.75	120.60
1	l1	44	SER	N-CA-C	5.54	119.74	112.92
1	l4	19	THR	CA-C-O	5.54	126.42	120.55
1	le	132	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	lo	180	GLU	CA-C-O	5.54	126.42	120.55
1	lp	51	ASP	CA-CB-CG	-5.54	107.06	112.60
1	lr	100	ARG	CB-CG-CD	5.54	124.05	111.30
1	29	30	LYS	N-CA-C	5.54	119.61	112.41
1	lE	66	MET	O-C-N	-5.54	115.74	122.22
1	lO	164	TYR	N-CA-C	5.54	117.00	111.07
1	lQ	148	THR	CA-C-N	5.54	132.13	121.54
1	lQ	148	THR	C-N-CA	5.54	132.13	121.54
1	2j	23	TRP	CE3-CZ3-CH2	-5.54	113.90	121.10
1	2m	51	ASP	CA-C-N	5.54	127.64	120.44
1	2m	51	ASP	C-N-CA	5.54	127.64	120.44
1	2p	18	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	2q	100	ARG	CA-C-N	5.54	127.07	120.14
1	2q	100	ARG	C-N-CA	5.54	127.07	120.14
1	2H	80	TRP	O-C-N	-5.54	115.83	122.15
1	3c	179	GLN	CA-C-N	5.54	127.71	120.28
1	3c	179	GLN	C-N-CA	5.54	127.71	120.28
1	3e	10	MET	N-CA-C	5.54	117.89	110.35
1	3q	100	ARG	CA-C-N	5.54	126.13	119.98
1	3q	100	ARG	C-N-CA	5.54	126.13	119.98
1	3r	221	VAL	CA-C-O	5.54	124.22	118.96
1	3x	138	LEU	CA-C-O	5.54	126.29	120.42
1	3A	12	HIS	CB-CG-ND1	5.54	131.01	122.70
1	3F	70	LYS	CA-C-N	5.54	127.64	120.44
1	3F	70	LYS	C-N-CA	5.54	127.64	120.44
1	3M	37	ILE	O-C-N	5.54	123.97	120.42
1	3S	43	LEU	O-C-N	-5.54	114.81	122.46
1	4b	86	VAL	N-CA-C	5.54	117.61	109.63
1	4n	117	TRP	CB-CG-CD2	-5.54	119.04	126.80
1	4E	48	THR	CA-C-N	5.54	126.77	119.84
1	4E	48	THR	C-N-CA	5.54	126.77	119.84
1	4K	84	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	4O	114	GLN	CA-C-N	5.54	127.75	120.60
1	4O	114	GLN	C-N-CA	5.54	127.75	120.60
1	4V	141	ILE	N-CA-CB	5.54	117.66	110.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	50	229	ARG	N-CA-C	5.54	118.31	110.50
1	55	18	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	59	218	CYS	N-CA-CB	5.54	120.41	111.65
1	5b	33	SER	CB-CA-C	5.54	117.52	110.76
1	5d	130	TYR	CA-C-O	5.54	126.34	119.97
1	5r	107	THR	CB-CA-C	-5.54	100.75	109.34
1	5s	12	HIS	CB-CG-ND1	5.54	131.01	122.70
1	5v	219	GLN	CB-CG-CD	5.54	122.02	112.60
1	5J	195	ASN	CA-CB-CG	5.54	118.14	112.60
1	5Q	224	PRO	CB-CA-C	5.54	118.68	111.64
1	5T	209	ALA	N-CA-C	5.54	118.51	110.42
1	5X	82	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	5Z	116	GLY	CA-C-N	5.54	128.16	120.29
1	5Z	116	GLY	C-N-CA	5.54	128.16	120.29
1	6e	72	THR	OG1-CB-CG2	-5.54	98.22	109.30
1	6i	163	ASP	CB-CA-C	5.54	120.27	110.85
1	6t	129	ILE	CA-C-O	5.54	126.72	120.85
1	6Z	18	ARG	CA-C-N	5.54	127.64	120.44
1	6Z	18	ARG	C-N-CA	5.54	127.64	120.44
1	70	228	ALA	N-CA-C	5.54	118.05	110.24
1	77	92	GLU	O-C-N	5.54	125.26	121.71
1	7f	129	ILE	CA-C-O	-5.54	115.51	121.27
1	7o	173	ARG	N-CA-C	5.54	118.03	111.33
1	7u	97	ARG	O-C-N	-5.54	116.32	122.86
1	7w	75	GLU	N-CA-C	5.54	117.32	111.28
1	7N	191	VAL	CB-CA-C	-5.54	104.79	111.88
1	7P	136	LEU	N-CA-C	5.54	117.32	111.28
1	7U	177	ALA	CA-C-N	5.54	132.12	121.54
1	7U	177	ALA	C-N-CA	5.54	132.12	121.54
1	7Y	84	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	8a	4	GLN	CB-CG-CD	5.54	122.02	112.60
1	8e	152	ASP	N-CA-C	-5.54	106.19	113.17
1	8z	75	GLU	CA-C-N	5.54	127.71	120.28
1	8z	75	GLU	C-N-CA	5.54	127.71	120.28
1	8D	27	VAL	CB-CA-C	-5.54	104.96	111.94
1	8Y	63	GLN	N-CA-C	5.54	117.40	111.36
1	9f	184	TRP	CE2-CD2-CE3	5.54	124.34	118.80
1	9h	5	ASN	N-CA-CB	-5.54	102.44	110.70
1	9j	226	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	9m	27	VAL	O-C-N	-5.54	116.48	121.91
1	9q	120	HIS	CA-C-N	5.54	129.99	122.56
1	9q	120	HIS	C-N-CA	5.54	129.99	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	179	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	9A	168	PHE	CA-C-O	5.54	126.82	121.00
1	9D	48	THR	CA-C-N	5.54	125.64	119.32
1	9D	48	THR	C-N-CA	5.54	125.64	119.32
1	9K	11	VAL	CA-CB-CG1	5.54	119.82	110.40
1	9Z	124	ILE	O-C-N	-5.54	116.75	121.57
1	a7	128	GLU	CA-C-N	5.54	127.54	120.56
1	a7	128	GLU	C-N-CA	5.54	127.54	120.56
1	ac	5	ASN	O-C-N	-5.54	116.03	123.23
1	af	163	ASP	N-CA-C	-5.54	105.32	111.36
1	ah	171	THR	N-CA-C	5.54	118.25	111.82
1	ar	103	ASP	CB-CA-C	-5.54	100.03	110.67
1	aS	13	GLN	CB-CG-CD	5.54	122.02	112.60
1	15	18	ARG	N-CA-C	5.54	117.32	111.28
1	b3	151	LEU	CA-C-O	5.54	126.42	120.55
1	be	119	THR	CA-CB-CG2	5.54	119.92	110.50
1	bB	81	ASP	N-CA-C	5.54	117.32	111.28
1	bD	66	MET	O-C-N	-5.54	116.25	122.12
1	bF	185	MET	N-CA-C	5.54	117.32	111.28
1	bL	41	SER	O-C-N	-5.54	116.25	122.12
1	1c	156	GLY	CA-C-N	5.54	125.38	119.28
1	1c	156	GLY	C-N-CA	5.54	125.38	119.28
1	ci	73	ILE	CA-C-O	-5.54	114.49	120.47
1	ck	136	LEU	O-C-N	-5.54	116.25	122.12
1	cm	215	MET	N-CA-C	5.54	119.52	112.87
1	cp	9	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	cJ	4	GLN	CB-CA-C	5.54	116.65	109.28
1	d3	148	THR	OG1-CB-CG2	-5.54	98.22	109.30
1	do	82	ARG	O-C-N	-5.54	115.74	122.22
1	dw	87	HIS	CA-C-N	5.54	128.63	120.82
1	dw	87	HIS	C-N-CA	5.54	128.63	120.82
1	dD	154	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	e7	160	PRO	CA-C-N	5.54	132.12	121.54
1	e7	160	PRO	C-N-CA	5.54	132.12	121.54
1	eb	184	TRP	CE2-CD2-CE3	5.54	124.34	118.80
1	el	123	PRO	N-CA-C	5.54	120.19	111.38
1	eN	99	PRO	N-CA-C	5.54	119.56	111.03
1	f3	154	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	f6	175	GLU	O-C-N	-5.54	116.70	122.96
1	fe	198	CYS	CA-C-O	5.54	125.24	119.14
1	fg	148	THR	CA-C-O	-5.54	114.73	121.05
1	fi	138	LEU	CA-C-O	5.54	126.20	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fp	174	ALA	CA-C-O	5.54	125.75	119.27
1	fu	167	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	fB	228	ALA	CB-CA-C	5.54	119.66	110.74
1	fG	62	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	fI	110	THR	N-CA-C	5.54	117.84	110.53
1	fT	14	ALA	O-C-N	-5.54	116.21	122.97
1	j	82	ARG	NE-CZ-NH2	5.54	124.19	119.20
1	q	140	LYS	N-CA-C	5.54	118.04	111.33
1	z	46	GLY	CA-C-N	5.54	128.63	120.82
1	z	46	GLY	C-N-CA	5.54	128.63	120.82
1	D	21	ASN	N-CA-C	5.54	117.76	111.11
1	K	84	HIS	CB-CA-C	-5.54	102.22	110.97
1	P	172	LEU	O-C-N	-5.54	116.25	122.12
1	g8	176	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	ge	72	THR	N-CA-CB	5.54	118.19	109.94
1	1C	192	GLN	OE1-CD-NE2	5.54	128.14	122.60
1	gC	88	ALA	N-CA-CB	-5.54	102.29	111.49
1	gI	190	LEU	O-C-N	5.54	127.99	122.12
1	hA	150	ILE	O-C-N	-5.54	115.69	122.12
1	hB	7	GLN	N-CA-CB	5.54	118.61	110.35
1	hG	36	VAL	O-C-N	-5.54	116.50	121.87
1	hX	159	GLU	O-C-N	-5.54	114.81	121.12
1	hZ	138	LEU	N-CA-C	5.54	118.03	111.33
1	ii	87	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	in	142	VAL	N-CA-C	5.54	116.18	110.36
1	it	118	MET	CA-CB-CG	-5.54	103.02	114.10
1	iu	70	LYS	N-CA-C	5.54	117.32	111.28
1	ix	143	ARG	N-CA-C	5.54	117.00	111.07
1	iR	195	ASN	CA-C-N	5.54	125.37	119.28
1	iR	195	ASN	C-N-CA	5.54	125.37	119.28
1	jB	212	GLU	N-CA-C	5.54	117.32	111.28
1	jE	104	ILE	N-CA-C	5.54	116.27	110.62
1	jM	100	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	k9	25	LYS	CA-C-N	5.54	128.05	120.46
1	k9	25	LYS	C-N-CA	5.54	128.05	120.46
1	kB	92	GLU	CA-C-O	-5.54	114.95	120.66
1	l3	145	TYR	CA-C-O	5.54	126.37	119.78
1	lc	70	LYS	CA-C-N	5.54	127.64	120.44
1	lc	70	LYS	C-N-CA	5.54	127.64	120.44
1	lt	181	VAL	N-CA-CB	5.54	117.03	110.55
1	lE	84	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	2a	78	ALA	CA-C-N	5.54	127.97	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2a	78	ALA	C-N-CA	5.54	127.97	120.38
1	lP	2	ILE	CB-CA-C	5.54	117.66	110.96
1	lP	101	GLY	CA-C-O	5.54	130.21	120.57
1	2o	183	ASN	CB-CA-C	-5.54	101.59	110.79
1	2w	154	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	2N	50	GLN	N-CA-C	5.54	117.00	111.07
1	2R	162	ARG	NE-CZ-NH1	-5.54	115.96	121.50
1	31	117	TRP	CA-C-N	5.54	127.70	120.28
1	31	117	TRP	C-N-CA	5.54	127.70	120.28
1	33	82	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	3v	72	THR	O-C-N	-5.54	116.25	122.12
1	3H	75	GLU	CA-C-N	5.54	127.70	120.28
1	3H	75	GLU	C-N-CA	5.54	127.70	120.28
1	4g	154	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	4A	23	TRP	CE2-CD2-CE3	-5.54	113.26	118.80
1	4Q	190	LEU	N-CA-CB	5.54	118.19	109.94
1	4U	48	THR	N-CA-CB	5.54	117.43	109.78
1	4X	5	ASN	CA-CB-CG	5.54	118.14	112.60
1	5h	219	GLN	N-CA-C	5.54	119.67	113.02
1	5L	128	GLU	CA-C-O	5.54	126.64	120.82
1	5T	27	VAL	N-CA-CB	5.54	116.91	110.65
1	5V	159	GLU	CA-C-O	-5.54	114.43	120.69
1	63	111	LEU	CA-C-N	5.54	127.70	120.28
1	63	111	LEU	C-N-CA	5.54	127.70	120.28
1	69	106	GLY	N-CA-C	5.54	123.73	113.76
1	6W	132	ARG	O-C-N	-5.54	115.74	122.22
1	72	104	ILE	O-C-N	-5.54	116.12	121.83
1	7s	111	LEU	CA-C-O	-5.54	114.54	121.02
1	7F	130	TYR	O-C-N	-5.54	115.83	122.15
1	7N	173	ARG	CA-C-N	5.54	128.26	120.28
1	7N	173	ARG	C-N-CA	5.54	128.26	120.28
1	7Q	126	VAL	N-CA-C	5.54	116.94	110.62
1	7X	6	LEU	CB-CA-C	-5.54	100.24	109.55
1	81	75	GLU	O-C-N	5.54	127.85	122.09
1	8j	99	PRO	CA-C-O	-5.54	114.71	121.03
1	8T	100	ARG	CA-C-N	5.54	126.23	120.03
1	8T	100	ARG	C-N-CA	5.54	126.23	120.03
1	8X	95	GLN	CA-C-O	5.54	126.58	120.71
1	9k	162	ARG	O-C-N	-5.54	116.25	122.12
1	9w	87	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	9C	75	GLU	CA-C-O	5.54	126.64	120.82
1	9G	58	THR	N-CA-CB	5.54	120.09	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ai	87	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	ap	41	SER	CA-C-O	-5.54	114.55	120.42
1	12	41	SER	N-CA-C	5.54	117.00	111.07
1	aE	52	LEU	CA-C-O	-5.54	114.97	120.90
1	aM	2	ILE	CA-C-N	5.54	129.41	122.48
1	aM	2	ILE	C-N-CA	5.54	129.41	122.48
1	aU	175	GLU	O-C-N	-5.54	116.27	122.75
1	bw	84	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	c1	120	HIS	CB-CG-CD2	5.54	138.40	131.20
1	c7	222	GLY	O-C-N	-5.54	118.39	122.71
1	cb	182	LYS	O-C-N	-5.54	115.46	122.27
1	cq	120	HIS	CA-CB-CG	5.54	119.34	113.80
1	ct	18	ARG	NE-CZ-NH2	-5.54	114.21	119.20
1	cv	71	GLU	N-CA-C	5.54	117.32	111.28
1	cJ	180	GLU	CA-C-N	5.54	127.54	120.56
1	cJ	180	GLU	C-N-CA	5.54	127.54	120.56
1	1g	68	MET	CG-SD-CE	-5.54	88.71	100.90
1	di	86	VAL	O-C-N	-5.54	116.64	122.57
1	do	75	GLU	CB-CG-CD	5.54	122.02	112.60
1	dE	42	ALA	CA-C-O	5.54	126.36	120.10
1	dN	57	ASN	CA-CB-CG	-5.54	107.06	112.60
1	dQ	175	GLU	CB-CA-C	5.54	118.92	109.72
1	dS	7	GLN	CA-C-O	5.54	126.42	120.38
1	dW	23	TRP	CZ3-CH2-CZ2	5.54	128.70	121.50
1	eb	184	TRP	CD2-CE2-CZ2	-5.54	116.86	122.40
1	em	65	ALA	CA-C-O	-5.54	114.68	120.55
1	es	187	GLU	O-C-N	-5.54	115.83	122.15
1	eB	162	ARG	NE-CZ-NH1	-5.54	115.96	121.50
1	eT	13	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	eT	66	MET	N-CA-CB	5.54	118.26	110.12
1	eW	62	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	fh	89	GLY	CA-C-N	5.54	125.55	119.90
1	fh	89	GLY	C-N-CA	5.54	125.55	119.90
1	fu	50	GLN	CA-CB-CG	5.54	125.18	114.10
1	fT	37	ILE	CB-CG1-CD1	5.54	125.43	113.80
1	l	161	PHE	O-C-N	-5.54	116.33	122.09
1	w	203	LYS	CA-CB-CG	-5.54	103.02	114.10
1	H	135	ILE	O-C-N	-5.54	116.12	121.83
1	g9	106	GLY	N-CA-C	5.54	122.46	114.10
1	gf	2	ILE	N-CA-CB	5.54	123.11	111.37
1	gg	77	ALA	N-CA-CB	-5.54	101.98	110.12
1	gi	105	ALA	N-CA-C	5.54	119.74	113.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gt	163	ASP	O-C-N	-5.54	115.46	122.27
1	gv	120	HIS	N-CA-C	5.54	122.60	110.80
1	gB	147	PRO	N-CA-CB	-5.54	97.44	103.25
1	gF	112	GLN	CG-CD-NE2	5.54	124.71	116.40
1	gN	171	THR	N-CA-CB	5.54	118.10	110.07
1	gX	218	CYS	O-C-N	-5.54	115.22	122.59
1	gY	36	VAL	N-CA-C	5.54	116.31	110.72
1	h1	68	MET	CG-SD-CE	-5.54	88.72	100.90
1	h5	126	VAL	CA-C-N	5.54	125.98	119.94
1	h5	126	VAL	C-N-CA	5.54	125.98	119.94
1	h7	154	ARG	O-C-N	-5.54	116.60	123.36
1	ha	83	LEU	N-CA-C	5.54	117.00	111.07
1	ha	144	MET	O-C-N	5.54	127.79	122.03
1	he	62	HIS	O-C-N	-5.54	115.64	123.01
1	he	81	ASP	CA-C-N	5.54	128.16	120.29
1	he	81	ASP	C-N-CA	5.54	128.16	120.29
1	hM	117	TRP	N-CA-C	5.54	117.00	111.07
1	is	9	GLN	CA-CB-CG	5.54	125.17	114.10
1	it	78	ALA	N-CA-C	5.54	117.40	111.36
1	iu	89	GLY	O-C-N	-5.54	116.23	121.77
1	1S	107	THR	CA-C-N	5.54	131.19	122.49
1	1S	107	THR	C-N-CA	5.54	131.19	122.49
1	1S	176	GLN	CB-CA-C	5.54	118.91	109.72
1	j3	19	THR	CA-C-O	-5.54	114.99	120.70
1	1U	231	LEU	CD1-CG-CD2	-5.54	98.61	110.80
1	jc	87	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	jn	134	ILE	CA-C-O	5.54	127.03	121.27
1	jC	81	ASP	O-C-N	-5.54	116.25	122.12
1	jL	214	MET	N-CA-C	5.54	118.08	111.71
1	jT	188	THR	CA-CB-CG2	5.54	119.92	110.50
1	jT	191	VAL	CA-CB-CG2	-5.54	100.99	110.40
1	k1	152	ASP	CA-CB-CG	5.54	118.14	112.60
1	k2	107	THR	N-CA-CB	5.54	118.24	109.82
1	k6	227	LYS	CB-CA-C	5.54	119.53	109.62
1	k8	67	GLN	N-CA-CB	5.54	118.10	110.07
1	20	37	ILE	CA-C-O	-5.54	114.14	118.85
1	kc	87	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	21	219	GLN	CG-CD-NE2	-5.54	108.09	116.40
1	23	7	GLN	CB-CG-CD	-5.54	103.18	112.60
1	kK	41	SER	CA-C-N	5.54	128.02	120.54
1	kK	41	SER	C-N-CA	5.54	128.02	120.54
1	kQ	196	PRO	N-CA-C	5.54	123.88	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kS	10	MET	CG-SD-CE	-5.54	88.72	100.90
1	25	27	VAL	N-CA-CB	5.54	118.07	110.54
1	lc	164	TYR	CA-C-O	-5.54	114.68	120.55
1	lp	140	LYS	N-CA-C	5.54	118.03	111.33
1	lG	23	TRP	CA-C-N	5.54	128.05	120.46
1	lG	23	TRP	C-N-CA	5.54	128.05	120.46
1	lK	18	ARG	N-CA-C	5.54	117.32	111.28
1	2j	213	GLU	CB-CG-CD	5.54	122.02	112.60
1	2m	107	THR	CA-C-O	5.54	127.16	121.07
1	2v	90	PRO	CB-CA-C	5.54	117.59	111.11
1	2z	10	MET	CG-SD-CE	-5.54	88.72	100.90
1	2C	26	VAL	N-CA-CB	5.54	118.89	110.58
1	2Q	213	GLU	N-CA-CB	5.54	118.36	110.16
1	2S	173	ARG	NE-CZ-NH2	-5.54	114.22	119.20
1	2T	29	GLU	CA-C-O	5.54	126.76	120.00
1	31	173	ARG	O-C-N	-5.54	116.25	122.12
1	35	39	MET	N-CA-C	5.54	117.00	111.07
1	3i	93	PRO	N-CA-CB	-5.54	97.41	103.39
1	3k	152	ASP	CA-CB-CG	-5.54	107.06	112.60
1	3M	17	PRO	CB-CA-C	-5.54	103.59	111.68
1	43	93	PRO	CA-C-O	-5.54	115.10	121.36
1	46	65	ALA	CA-C-O	-5.54	114.55	120.42
1	48	144	MET	CA-CB-CG	5.54	125.18	114.10
1	4a	22	ALA	CA-C-N	5.54	127.64	120.44
1	4a	22	ALA	C-N-CA	5.54	127.64	120.44
1	4c	123	PRO	CA-C-N	5.54	131.09	123.28
1	4c	123	PRO	C-N-CA	5.54	131.09	123.28
1	4c	165	VAL	N-CA-C	5.54	115.74	110.42
1	4p	191	VAL	CA-C-N	5.54	128.73	120.31
1	4p	191	VAL	C-N-CA	5.54	128.73	120.31
1	4y	43	LEU	CB-CA-C	5.54	119.58	110.88
1	4A	19	THR	CA-C-N	5.54	127.70	120.28
1	4A	19	THR	C-N-CA	5.54	127.70	120.28
1	4H	152	ASP	CA-CB-CG	5.54	118.14	112.60
1	50	142	VAL	O-C-N	-5.54	116.48	121.91
1	5c	65	ALA	CA-C-O	5.54	126.29	120.42
1	5d	167	ARG	CB-CA-C	-5.54	102.19	110.88
1	5j	160	PRO	N-CA-CB	-5.54	97.44	103.25
1	5x	168	PHE	CA-CB-CG	5.54	119.34	113.80
1	5z	202	LEU	O-C-N	-5.54	116.25	122.12
1	6j	214	MET	CA-C-N	5.54	128.02	120.54
1	6j	214	MET	C-N-CA	5.54	128.02	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6k	155	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	6R	43	LEU	CA-C-O	-5.54	112.84	119.15
1	6X	226	HIS	CB-CG-ND1	5.54	131.01	122.70
1	7d	113	GLU	CA-C-N	5.54	127.70	120.28
1	7d	113	GLU	C-N-CA	5.54	127.70	120.28
1	7d	120	HIS	CA-C-N	5.54	132.08	122.28
1	7d	120	HIS	C-N-CA	5.54	132.08	122.28
1	7l	62	HIS	CA-CB-CG	-5.54	108.26	113.80
1	7q	214	MET	CG-SD-CE	-5.54	88.72	100.90
1	7v	152	ASP	N-CA-C	5.54	118.25	111.82
1	7y	164	TYR	CA-CB-CG	5.54	123.87	113.90
1	7A	144	MET	CA-C-N	5.54	131.48	122.67
1	7A	144	MET	C-N-CA	5.54	131.48	122.67
1	7F	24	VAL	CA-C-N	5.54	128.73	120.31
1	7F	24	VAL	C-N-CA	5.54	128.73	120.31
1	7L	136	LEU	N-CA-C	5.54	117.32	111.28
1	7P	96	MET	O-C-N	-5.54	116.71	123.19
1	7V	117	TRP	N-CA-C	5.54	119.30	112.54
1	81	39	MET	CA-C-N	5.54	127.70	120.28
1	81	39	MET	C-N-CA	5.54	127.70	120.28
1	83	151	LEU	CA-C-O	-5.54	113.25	119.79
1	86	24	VAL	CA-CB-CG1	5.54	119.81	110.40
1	89	157	PRO	N-CA-CB	5.54	108.83	103.51
1	8a	21	ASN	N-CA-C	5.54	117.32	111.28
1	8m	37	ILE	N-CA-CB	5.54	114.77	110.45
1	8p	226	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	8r	165	VAL	N-CA-C	5.54	116.27	110.62
1	8v	154	ARG	N-CA-C	5.54	117.39	109.14
1	8F	201	ILE	O-C-N	-5.54	116.48	121.91
1	8H	5	ASN	CA-CB-CG	5.54	118.14	112.60
1	8L	40	PHE	N-CA-C	5.54	117.76	111.11
1	8P	38	PRO	N-CA-CB	5.54	109.16	103.23
1	92	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	92	136	LEU	O-C-N	-5.54	115.74	122.22
1	96	124	ILE	CB-CA-C	5.54	117.15	110.78
1	97	39	MET	CA-C-N	5.54	127.70	120.28
1	97	39	MET	C-N-CA	5.54	127.70	120.28
1	9x	44	SER	CA-C-N	5.54	132.12	121.54
1	9x	44	SER	C-N-CA	5.54	132.12	121.54
1	9T	174	ALA	CA-C-O	5.54	126.29	120.42
1	9X	179	GLN	CA-C-N	5.54	128.73	120.31
1	9X	179	GLN	C-N-CA	5.54	128.73	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Z	72	THR	O-C-N	-5.54	115.84	122.15
1	9Z	168	PHE	N-CA-CB	-5.54	102.04	110.07
1	a9	193	ASN	CA-C-N	5.54	128.57	120.71
1	a9	193	ASN	C-N-CA	5.54	128.57	120.71
1	ad	30	LYS	CA-C-N	5.54	132.12	121.54
1	ad	30	LYS	C-N-CA	5.54	132.12	121.54
1	ad	137	GLY	N-CA-C	5.54	120.79	113.37
1	14	190	LEU	N-CA-C	5.54	117.76	111.11
1	aX	184	TRP	CB-CG-CD1	-5.54	118.59	126.90
1	b5	84	HIS	CA-CB-CG	-5.54	108.26	113.80
1	bf	146	SER	N-CA-C	5.54	117.45	109.48
1	bw	81	ASP	N-CA-C	5.54	118.08	111.71
1	bB	97	ARG	NE-CZ-NH1	-5.54	115.96	121.50
1	bB	227	LYS	CA-C-N	5.54	130.43	122.40
1	bB	227	LYS	C-N-CA	5.54	130.43	122.40
1	bC	69	LEU	CB-CA-C	5.54	120.27	110.85
1	bD	125	PRO	N-CA-CB	5.54	106.45	102.79
1	bG	15	ILE	N-CA-CB	5.54	116.86	110.49
1	bL	214	MET	N-CA-CB	-5.54	101.98	110.01
1	bO	32	PHE	CA-C-O	-5.54	114.23	120.43
1	bQ	204	ALA	N-CA-C	5.54	117.00	111.07
1	bU	40	PHE	CA-C-N	5.54	127.97	120.38
1	bU	40	PHE	C-N-CA	5.54	127.97	120.38
1	bZ	84	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	cf	217	ALA	N-CA-CB	-5.54	102.19	110.17
1	ch	54	THR	CA-C-N	5.54	127.70	120.28
1	ch	54	THR	C-N-CA	5.54	127.70	120.28
1	cu	90	PRO	O-C-N	-5.54	115.16	122.64
1	cG	16	SER	N-CA-CB	5.54	117.95	110.14
1	cN	91	ILE	N-CA-C	-5.54	100.50	108.53
1	cP	145	TYR	O-C-N	-5.54	115.69	122.34
1	cW	141	ILE	N-CA-CB	5.54	117.03	110.55
1	d9	36	VAL	CA-C-N	5.54	124.76	120.33
1	d9	36	VAL	C-N-CA	5.54	124.76	120.33
1	dg	53	ASN	N-CA-C	5.54	117.32	111.28
1	di	121	ASN	CA-CB-CG	-5.54	107.06	112.60
1	dE	194	ALA	N-CA-C	5.54	117.44	110.24
1	dK	188	THR	CA-C-N	5.54	128.16	120.29
1	dK	188	THR	C-N-CA	5.54	128.16	120.29
1	el	6	LEU	N-CA-C	5.54	122.60	110.80
1	el	12	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	1q	183	ASN	CB-CA-C	5.54	119.98	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	15	ILE	N-CA-C	5.54	116.85	109.37
1	ex	107	THR	O-C-N	-5.54	115.84	122.27
1	eR	202	LEU	N-CA-C	5.54	118.25	111.82
1	eW	134	ILE	O-C-N	-5.54	116.12	121.83
1	f0	24	VAL	CA-C-N	5.54	128.16	120.29
1	f0	24	VAL	C-N-CA	5.54	128.16	120.29
1	f5	78	ALA	N-CA-C	5.54	118.25	111.82
1	fe	97	ARG	O-C-N	-5.54	116.06	122.87
1	fg	80	TRP	CA-CB-CG	5.54	124.12	113.60
1	ft	212	GLU	N-CA-C	5.54	118.03	111.33
1	fF	127	GLY	O-C-N	-5.54	115.50	122.70
1	fI	212	GLU	N-CA-C	5.54	117.00	111.07
1	fI	224	PRO	N-CA-CB	-5.54	97.43	103.25
1	fR	75	GLU	CB-CG-CD	-5.54	103.18	112.60
1	1A	16	SER	CA-C-N	5.54	125.37	119.28
1	1A	16	SER	C-N-CA	5.54	125.37	119.28
1	g3	15	ILE	CA-CB-CG1	5.54	119.82	110.40
1	g6	116	GLY	O-C-N	-5.54	116.87	122.19
1	0	85	PRO	CA-C-N	5.54	128.78	120.69
1	0	85	PRO	C-N-CA	5.54	128.78	120.69
1	h	80	TRP	CA-C-O	5.54	126.64	120.82
1	j	197	ASP	CA-C-O	5.54	126.83	120.90
1	l	110	THR	N-CA-C	-5.54	101.55	110.14
1	p	143	ARG	O-C-N	5.54	127.85	122.09
1	A	158	LYS	CA-C-O	5.54	126.02	119.48
1	K	40	PHE	CA-C-O	-5.54	114.97	120.90
1	O	199	LYS	O-C-N	5.54	127.99	122.12
1	U	23	TRP	CA-C-O	-5.54	115.00	120.82
1	W	98	GLU	CA-C-O	-5.54	114.41	120.17
1	6	80	TRP	CB-CG-CD2	5.54	134.55	126.80
1	gm	13	GLN	CA-C-O	5.54	127.37	121.45
1	gx	159	GLU	O-C-N	-5.54	114.56	121.70
1	gI	115	ILE	CA-C-N	5.54	126.09	119.94
1	gI	115	ILE	C-N-CA	5.54	126.09	119.94
1	gY	136	LEU	CA-C-N	5.54	126.13	119.98
1	gY	136	LEU	C-N-CA	5.54	126.13	119.98
1	h6	193	ASN	N-CA-C	-5.54	106.11	112.92
1	hx	193	ASN	N-CA-CB	5.54	119.43	110.40
1	hH	22	ALA	CA-C-N	5.54	128.15	120.29
1	hH	22	ALA	C-N-CA	5.54	128.15	120.29
1	hJ	25	LYS	N-CA-C	5.54	117.00	111.07
1	hN	143	ARG	NE-CZ-NH1	5.54	127.04	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hP	91	ILE	CA-C-O	5.54	127.45	121.36
1	iH	166	ASP	O-C-N	5.54	127.77	122.07
1	j4	4	GLN	OE1-CD-NE2	-5.54	117.06	122.60
1	jm	52	LEU	O-C-N	-5.54	116.25	122.12
1	jK	127	GLY	CA-C-N	5.54	128.15	120.29
1	jK	127	GLY	C-N-CA	5.54	128.15	120.29
1	jX	222	GLY	O-C-N	5.54	128.23	122.75
1	ko	193	ASN	CA-CB-CG	-5.54	107.06	112.60
1	kH	143	ARG	N-CA-C	5.54	116.99	111.07
1	l0	135	ILE	O-C-N	5.54	127.24	121.87
1	ld	229	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	lH	89	GLY	O-C-N	5.54	127.31	121.77
1	lH	107	THR	O-C-N	-5.54	116.37	122.07
1	lR	73	ILE	N-CA-CB	5.54	118.07	110.54
1	2D	18	ARG	O-C-N	-5.54	116.25	122.12
1	3j	63	GLN	N-CA-C	5.54	119.88	113.18
1	3C	104	ILE	CA-C-N	5.54	128.25	120.28
1	3C	104	ILE	C-N-CA	5.54	128.25	120.28
1	45	119	THR	N-CA-CB	5.54	119.39	110.42
1	45	129	ILE	N-CA-C	-5.54	105.33	110.53
1	4i	24	VAL	N-CA-C	5.54	116.27	110.62
1	4p	14	ALA	CA-C-N	5.54	128.05	120.35
1	4p	14	ALA	C-N-CA	5.54	128.05	120.35
1	4Q	130	TYR	CA-C-N	5.54	127.70	120.28
1	4Q	130	TYR	C-N-CA	5.54	127.70	120.28
1	5h	170	LYS	N-CA-CB	5.54	118.04	110.01
1	5y	147	PRO	CA-C-N	5.54	128.96	120.82
1	5y	147	PRO	C-N-CA	5.54	128.96	120.82
1	5J	95	GLN	CA-C-N	5.54	129.56	121.31
1	5J	95	GLN	C-N-CA	5.54	129.56	121.31
1	5Q	224	PRO	N-CA-C	5.54	120.29	111.26
1	5Y	24	VAL	CB-CA-C	-5.54	104.79	112.04
1	5Y	143	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	6w	146	SER	CB-CA-C	-5.54	104.02	110.17
1	6F	154	ARG	NE-CZ-NH2	-5.54	114.22	119.20
1	6L	182	LYS	N-CA-C	5.54	117.32	111.28
1	6S	21	ASN	CA-C-N	5.54	127.70	120.28
1	6S	21	ASN	C-N-CA	5.54	127.70	120.28
1	7a	63	GLN	CA-C-N	5.54	128.01	120.54
1	7a	63	GLN	C-N-CA	5.54	128.01	120.54
1	7t	145	TYR	N-CA-C	5.54	117.40	111.36
1	7B	199	LYS	N-CA-C	5.54	118.24	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8x	132	ARG	O-C-N	-5.54	116.25	122.12
1	8x	202	LEU	N-CA-C	5.54	117.31	111.28
1	8H	155	GLN	CB-CG-CD	5.54	122.01	112.60
1	8M	111	LEU	N-CA-C	5.54	116.99	111.07
1	8W	31	ALA	N-CA-C	5.54	116.19	108.00
1	9c	68	MET	CG-SD-CE	-5.54	88.72	100.90
1	9F	98	GLU	CA-C-N	-5.54	112.78	120.25
1	9F	98	GLU	C-N-CA	-5.54	112.78	120.25
1	9L	87	HIS	CA-CB-CG	5.54	119.34	113.80
1	9Z	168	PHE	CA-C-N	5.54	128.15	120.29
1	9Z	168	PHE	C-N-CA	5.54	128.15	120.29
1	a6	62	HIS	CG-CD2-NE2	-5.54	101.66	107.20
1	ay	189	LEU	O-C-N	-5.54	114.91	122.33
1	aC	120	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	aF	135	ILE	N-CA-C	5.54	116.27	110.62
1	b5	87	HIS	CA-CB-CG	5.54	119.34	113.80
1	bk	48	THR	O-C-N	-5.54	117.15	121.14
1	bF	92	GLU	O-C-N	-5.54	116.29	121.72
1	bG	175	GLU	N-CA-C	5.54	118.26	110.23
1	cc	88	ALA	N-CA-CB	-5.54	102.25	110.61
1	cf	196	PRO	N-CA-CB	-5.54	97.44	103.25
1	cn	72	THR	CA-C-O	5.54	126.34	119.97
1	cP	96	MET	CG-SD-CE	-5.54	88.72	100.90
1	da	187	GLU	N-CA-C	5.54	117.00	111.07
1	dg	90	PRO	N-CA-C	5.54	119.56	111.03
1	di	184	TRP	CA-CB-CG	5.54	124.12	113.60
1	dQ	113	GLU	N-CA-C	5.54	117.00	111.07
1	eo	167	ARG	CG-CD-NE	-5.54	99.82	112.00
1	eq	10	MET	O-C-N	-5.54	116.48	123.01
1	1s	119	THR	CA-C-O	-5.54	112.73	119.43
1	eI	44	SER	N-CA-C	-5.54	106.41	112.72
1	eX	222	GLY	N-CA-C	5.54	117.69	112.04
1	fT	171	THR	CA-C-O	5.54	126.40	120.70
1	0	111	LEU	O-C-N	-5.54	116.25	122.12
1	b	50	GLN	N-CA-C	5.54	118.03	111.33
1	j	84	HIS	CA-C-O	-5.54	113.36	120.83
1	5	154	ARG	CA-C-O	-5.54	115.07	121.49
1	ga	163	ASP	CA-CB-CG	-5.54	107.06	112.60
1	gh	73	ILE	CB-CA-C	-5.54	104.79	112.04
1	1C	17	PRO	N-CA-C	-5.54	106.48	114.18
1	gl	75	GLU	N-CA-C	5.54	117.39	111.36
1	gm	23	TRP	CA-CB-CG	5.54	124.12	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gu	144	MET	CB-CA-C	-5.54	101.44	110.85
1	1E	16	SER	CA-C-N	5.54	125.89	119.47
1	1E	16	SER	C-N-CA	5.54	125.89	119.47
1	gG	112	GLN	CB-CA-C	-5.54	101.60	110.79
1	gH	18	ARG	CG-CD-NE	-5.54	99.82	112.00
1	gI	117	TRP	CA-C-O	-5.54	114.98	120.90
1	gN	48	THR	O-C-N	-5.54	115.35	121.66
1	gP	87	HIS	CE1-NE2-CD2	-5.54	103.47	109.00
1	gR	161	PHE	CA-CB-CG	5.54	119.34	113.80
1	gS	112	GLN	CA-C-N	5.54	127.64	120.44
1	gS	112	GLN	C-N-CA	5.54	127.64	120.44
1	gY	12	HIS	CA-CB-CG	5.54	119.33	113.80
1	gZ	74	ASN	CA-C-O	5.54	126.63	120.82
1	gZ	208	ALA	O-C-N	-5.54	115.45	122.26
1	hf	67	GLN	N-CA-C	5.54	117.39	111.36
1	ho	84	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	hq	129	ILE	CA-C-N	5.54	128.15	120.29
1	hq	129	ILE	C-N-CA	5.54	128.15	120.29
1	hz	50	GLN	N-CA-C	5.54	117.31	111.28
1	hz	162	ARG	O-C-N	-5.54	115.84	122.15
1	hI	120	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	hJ	161	PHE	CA-C-O	5.54	125.23	119.14
1	hR	213	GLU	CA-C-O	5.54	126.42	120.55
1	hT	175	GLU	N-CA-C	5.54	117.17	111.03
1	hU	35	GLU	N-CA-C	5.54	118.24	111.82
1	hY	70	LYS	N-CA-CB	5.54	118.35	110.16
1	i2	156	GLY	CA-C-N	5.54	125.19	119.05
1	i2	156	GLY	C-N-CA	5.54	125.19	119.05
1	i9	64	ALA	O-C-N	-5.54	115.84	122.15
1	im	61	GLY	CA-C-O	5.54	130.70	122.62
1	im	62	HIS	ND1-CG-CD2	5.54	111.64	106.10
1	iw	135	ILE	N-CA-CB	5.54	120.79	110.77
1	iF	91	ILE	O-C-N	-5.54	117.22	123.20
1	iK	181	VAL	CA-C-O	-5.54	115.30	121.17
1	iN	173	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	iU	87	HIS	N-CA-C	5.54	117.76	108.96
1	iW	53	ASN	CA-C-N	5.54	127.64	120.44
1	iW	53	ASN	C-N-CA	5.54	127.64	120.44
1	j3	129	ILE	CB-CA-C	-5.54	104.88	111.97
1	jj	97	ARG	N-CA-C	5.54	117.67	110.53
1	jF	140	LYS	N-CA-C	5.54	117.39	111.36
1	jL	204	ALA	CA-C-O	-5.54	113.26	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jM	8	GLY	N-CA-C	-5.54	107.68	115.32
1	jQ	183	ASN	O-C-N	-5.54	116.25	122.12
1	jS	117	TRP	CB-CG-CD1	5.54	135.20	126.90
1	1Z	118	MET	CA-C-O	5.54	126.17	119.31
1	k7	129	ILE	N-CA-C	5.54	116.27	110.62
1	ka	131	LYS	CA-C-N	5.54	128.15	120.29
1	ka	131	LYS	C-N-CA	5.54	128.15	120.29
1	ki	87	HIS	CB-CG-CD2	5.54	138.40	131.20
1	kn	94	GLY	O-C-N	-5.54	117.33	123.58
1	kA	115	ILE	CA-CB-CG2	5.54	119.91	110.50
1	kA	130	TYR	CA-C-O	5.54	126.63	120.82
1	kD	70	LYS	O-C-N	-5.54	116.37	122.07
1	24	104	ILE	N-CA-C	5.54	116.27	110.62
1	l0	56	LEU	O-C-N	-5.54	116.37	122.07
1	l0	91	ILE	N-CA-C	5.54	117.43	109.51
1	26	105	ALA	N-CA-CB	-5.54	102.44	110.47
1	lb	12	HIS	CB-CG-CD2	-5.54	124.00	131.20
1	lc	123	PRO	CA-C-N	-5.54	118.03	122.85
1	lc	123	PRO	C-N-CA	-5.54	118.03	122.85
1	lf	92	GLU	N-CA-C	-5.54	100.56	109.58
1	lC	74	ASN	CA-C-N	5.54	127.96	120.65
1	lC	74	ASN	C-N-CA	5.54	127.96	120.65
1	lD	179	GLN	N-CA-C	5.54	117.39	111.36
1	2n	111	LEU	N-CA-C	5.54	118.03	111.33
1	2p	153	ILE	CA-CB-CG1	5.54	119.81	110.40
1	2t	115	ILE	N-CA-C	-5.54	104.97	110.62
1	2G	93	PRO	N-CA-C	5.54	119.90	111.15
1	2M	206	GLY	CA-C-N	5.54	125.71	119.90
1	2M	206	GLY	C-N-CA	5.54	125.71	119.90
1	2P	18	ARG	NE-CZ-NH2	5.54	124.18	119.20
1	2R	47	ALA	N-CA-C	5.54	118.05	110.24
1	2S	51	ASP	CA-C-N	5.54	128.15	120.29
1	2S	51	ASP	C-N-CA	5.54	128.15	120.29
1	2S	99	PRO	O-C-N	-5.54	116.90	123.10
1	2X	55	MET	CG-SD-CE	-5.54	88.72	100.90
1	30	152	ASP	CA-C-O	5.54	125.77	119.18
1	31	18	ARG	NH1-CZ-NH2	5.54	126.50	119.30
1	33	212	GLU	N-CA-C	5.54	117.31	111.28
1	34	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	3b	85	PRO	CB-CA-C	5.54	118.57	111.21
1	3f	55	MET	CB-CA-C	-5.54	102.19	110.88
1	3t	150	ILE	CB-CG1-CD1	5.54	125.43	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3y	114	GLN	N-CA-C	5.54	117.75	111.11
1	3S	178	SER	N-CA-C	5.54	118.04	110.24
1	45	110	THR	CA-CB-OG1	5.54	117.90	109.60
1	4m	29	GLU	O-C-N	-5.54	114.68	122.10
1	4n	52	LEU	O-C-N	-5.54	116.25	122.12
1	4B	80	TRP	CA-C-N	5.54	128.15	120.29
1	4B	80	TRP	C-N-CA	5.54	128.15	120.29
1	4C	78	ALA	N-CA-C	5.54	116.99	111.07
1	4D	84	HIS	CA-C-N	5.54	125.55	119.90
1	4D	84	HIS	C-N-CA	5.54	125.55	119.90
1	53	177	ALA	N-CA-C	5.54	117.48	109.07
1	5g	88	ALA	N-CA-CB	-5.54	101.77	110.46
1	5s	89	GLY	CA-C-N	5.54	125.55	119.90
1	5s	89	GLY	C-N-CA	5.54	125.55	119.90
1	5v	8	GLY	CA-C-N	5.54	129.21	121.02
1	5v	8	GLY	C-N-CA	5.54	129.21	121.02
1	5A	5	ASN	CA-C-O	5.54	126.42	120.55
1	5B	156	GLY	CA-C-N	5.54	125.15	119.56
1	5B	156	GLY	C-N-CA	5.54	125.15	119.56
1	5O	12	HIS	ND1-CE1-NE2	5.54	113.94	108.40
1	5Q	208	ALA	O-C-N	-5.54	115.54	122.35
1	60	100	ARG	CD-NE-CZ	5.54	132.15	124.40
1	66	120	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	6i	193	ASN	CB-CG-ND2	-5.54	108.10	116.40
1	6u	24	VAL	N-CA-CB	5.54	117.66	110.57
1	6A	144	MET	N-CA-CB	5.54	118.26	110.12
1	6F	65	ALA	CA-C-O	-5.54	115.01	120.82
1	6T	37	ILE	N-CA-CB	5.54	114.23	110.52
1	6V	137	GLY	CA-C-N	5.54	128.01	120.54
1	6V	137	GLY	C-N-CA	5.54	128.01	120.54
1	7a	115	ILE	CA-C-N	5.54	126.09	120.00
1	7a	115	ILE	C-N-CA	5.54	126.09	120.00
1	7c	46	GLY	CA-C-O	5.54	125.17	118.86
1	7m	64	ALA	N-CA-C	5.54	116.99	111.07
1	7u	167	ARG	NH1-CZ-NH2	-5.54	112.11	119.30
1	7D	86	VAL	N-CA-C	5.54	120.86	109.34
1	7H	142	VAL	N-CA-CB	5.54	120.11	110.65
1	7P	23	TRP	CA-C-N	5.54	127.65	120.56
1	7P	23	TRP	C-N-CA	5.54	127.65	120.56
1	7R	113	GLU	CA-C-O	5.54	126.29	120.42
1	7V	186	THR	N-CA-C	5.54	117.31	111.28
1	7Z	205	LEU	CA-C-O	-5.54	114.68	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	87	154	ARG	NE-CZ-NH1	5.54	127.04	121.50
1	8a	17	PRO	CA-C-N	5.54	128.15	120.29
1	8a	17	PRO	C-N-CA	5.54	128.15	120.29
1	8x	21	ASN	N-CA-CB	-5.54	101.98	110.12
1	8A	161	PHE	CB-CA-C	5.54	120.87	110.63
1	8F	174	ALA	N-CA-C	-5.54	106.19	113.17
1	8M	197	ASP	CA-CB-CG	-5.54	107.06	112.60
1	9t	93	PRO	N-CA-C	5.54	120.28	111.26
1	9z	171	THR	CA-CB-CG2	5.54	119.91	110.50
1	9T	89	GLY	N-CA-C	5.54	118.91	112.10
1	a2	22	ALA	O-C-N	-5.54	116.25	122.12
1	a8	20	LEU	CA-C-O	5.54	126.29	120.42
1	ab	164	TYR	N-CA-C	5.54	117.31	111.28
1	ah	84	HIS	CG-CD2-NE2	5.54	112.74	107.20
1	aI	16	SER	O-C-N	-5.54	115.44	121.53
1	aL	110	THR	O-C-N	-5.54	116.74	122.94
1	b3	132	ARG	NE-CZ-NH1	-5.54	115.97	121.50
1	b5	141	ILE	N-CA-CB	5.54	117.28	110.64
1	bf	35	GLU	CA-C-N	5.54	128.04	120.46
1	bf	35	GLU	C-N-CA	5.54	128.04	120.46
1	bt	167	ARG	N-CA-C	5.54	119.29	112.54
1	bu	74	ASN	CA-CB-CG	5.54	118.14	112.60
1	bC	101	GLY	CA-C-N	5.54	128.25	120.28
1	bC	101	GLY	C-N-CA	5.54	128.25	120.28
1	bM	116	GLY	CA-C-O	-5.54	114.79	120.66
1	bP	21	ASN	CA-CB-CG	5.54	118.14	112.60
1	bS	146	SER	O-C-N	5.54	126.64	121.27
1	c4	167	ARG	CA-C-N	5.54	127.64	120.44
1	c4	167	ARG	C-N-CA	5.54	127.64	120.44
1	c7	87	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
1	1e	69	LEU	CB-CA-C	5.54	119.57	110.88
1	cr	57	ASN	OD1-CG-ND2	-5.54	117.06	122.60
1	cx	201	ILE	CB-CA-C	5.54	121.23	112.26
1	cy	161	PHE	CB-CG-CD2	-5.54	111.29	120.70
1	cD	62	HIS	CA-C-N	5.54	127.70	120.28
1	cD	62	HIS	C-N-CA	5.54	127.70	120.28
1	1g	54	THR	O-C-N	-5.54	116.25	122.12
1	cK	91	ILE	N-CA-C	5.54	116.55	109.30
1	cM	191	VAL	N-CA-C	5.54	116.31	110.72
1	d7	17	PRO	CA-C-N	5.54	127.70	120.28
1	d7	17	PRO	C-N-CA	5.54	127.70	120.28
1	1j	139	ASN	O-C-N	-5.54	116.37	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dB	80	TRP	N-CA-C	5.54	117.31	111.28
1	dH	27	VAL	O-C-N	-5.54	114.80	122.05
1	dR	63	GLN	CA-C-N	5.54	127.64	120.44
1	dR	63	GLN	C-N-CA	5.54	127.64	120.44
1	dZ	90	PRO	CA-C-N	5.54	128.04	120.35
1	dZ	90	PRO	C-N-CA	5.54	128.04	120.35
1	e0	81	ASP	CA-CB-CG	-5.54	107.06	112.60
1	e4	179	GLN	N-CA-C	5.54	117.31	111.28
1	e6	32	PHE	CA-CB-CG	-5.54	108.27	113.80
1	ei	117	TRP	CG-CD2-CE3	-5.54	128.37	133.90
1	ew	87	HIS	CA-C-N	5.54	131.06	122.26
1	ew	87	HIS	C-N-CA	5.54	131.06	122.26
1	eF	61	GLY	CA-C-N	5.54	130.03	122.34
1	eF	61	GLY	C-N-CA	5.54	130.03	122.34
1	eT	30	LYS	N-CA-C	5.54	120.02	112.88
1	eU	166	ASP	N-CA-CB	-5.54	101.98	110.12
1	f7	18	ARG	CA-C-N	5.54	127.70	120.28
1	f7	18	ARG	C-N-CA	5.54	127.70	120.28
1	fb	10	MET	N-CA-C	5.54	117.73	109.59
1	fg	196	PRO	N-CA-CB	5.54	109.64	103.44
1	fj	200	THR	O-C-N	-5.54	115.46	122.27
1	fl	226	HIS	CA-C-N	5.54	128.97	121.05
1	fl	226	HIS	C-N-CA	5.54	128.97	121.05
1	fN	27	VAL	CA-CB-CG2	-5.54	100.99	110.40
1	fP	90	PRO	CA-C-N	5.54	127.53	120.56
1	fP	90	PRO	C-N-CA	5.54	127.53	120.56
1	fR	102	SER	CA-C-N	5.54	127.97	120.44
1	fR	102	SER	C-N-CA	5.54	127.97	120.44
1	fV	119	THR	CA-CB-OG1	5.54	117.90	109.60
1	e	77	ALA	CA-C-N	5.54	128.01	120.54
1	e	77	ALA	C-N-CA	5.54	128.01	120.54
1	n	10	MET	N-CA-C	5.54	117.88	110.35
1	B	139	ASN	O-C-N	-5.54	116.25	122.12
1	C	49	PRO	CA-C-N	5.54	127.70	120.28
1	C	49	PRO	C-N-CA	5.54	127.70	120.28
1	C	63	GLN	N-CA-C	5.54	118.24	111.82
1	4	189	LEU	O-C-N	-5.54	116.11	122.09
1	Q	191	VAL	CB-CA-C	5.54	119.66	112.24
1	gb	87	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	gs	110	THR	CA-CB-CG2	-5.53	101.09	110.50
1	gC	75	GLU	N-CA-C	5.53	117.31	111.28
1	gL	125	PRO	CA-C-N	5.53	128.33	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gL	125	PRO	C-N-CA	5.53	128.33	120.53
1	gQ	11	VAL	O-C-N	-5.53	116.67	122.81
1	gT	148	THR	O-C-N	-5.53	115.59	122.73
1	hi	31	ALA	CA-C-N	5.53	129.21	121.02
1	hi	31	ALA	C-N-CA	5.53	129.21	121.02
1	hj	143	ARG	N-CA-C	5.53	118.03	111.33
1	hl	82	ARG	CA-C-N	5.53	127.63	120.44
1	hl	82	ARG	C-N-CA	5.53	127.63	120.44
1	hF	162	ARG	N-CA-C	5.53	116.99	111.07
1	hQ	226	HIS	CB-CG-CD2	-5.53	124.01	131.20
1	hT	27	VAL	O-C-N	-5.53	116.50	121.87
1	i0	84	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	1N	181	VAL	CA-C-N	5.53	128.01	120.54
1	1N	181	VAL	C-N-CA	5.53	128.01	120.54
1	i6	65	ALA	N-CA-C	5.53	117.31	111.28
1	ic	191	VAL	CA-C-N	5.53	128.15	120.29
1	ic	191	VAL	C-N-CA	5.53	128.15	120.29
1	ih	134	ILE	CA-C-N	5.53	128.04	120.46
1	ih	134	ILE	C-N-CA	5.53	128.04	120.46
1	ii	28	GLU	CA-C-O	5.53	126.42	120.55
1	ii	77	ALA	O-C-N	-5.53	116.25	122.12
1	iq	112	GLN	CA-CB-CG	5.53	125.17	114.10
1	j7	165	VAL	CA-C-N	5.53	128.01	120.54
1	j7	165	VAL	C-N-CA	5.53	128.01	120.54
1	jb	58	THR	CA-C-N	5.53	127.92	120.50
1	jb	58	THR	C-N-CA	5.53	127.92	120.50
1	jf	214	MET	CB-CA-C	-5.53	101.61	110.79
1	jh	213	GLU	CA-C-O	-5.53	114.68	120.55
1	jm	79	GLU	O-C-N	-5.53	116.25	122.12
1	jC	97	ARG	NH1-CZ-NH2	-5.53	112.11	119.30
1	jJ	161	PHE	CA-C-N	5.53	128.01	120.54
1	jJ	161	PHE	C-N-CA	5.53	128.01	120.54
1	jP	67	GLN	CB-CG-CD	5.53	122.01	112.60
1	jU	178	SER	N-CA-CB	5.53	118.17	110.04
1	jW	205	LEU	N-CA-C	5.53	118.02	111.33
1	k6	67	GLN	CA-C-O	-5.53	114.56	120.42
1	ka	58	THR	N-CA-C	5.53	118.03	111.33
1	kc	105	ALA	CA-C-O	5.53	126.17	119.31
1	21	125	PRO	N-CD-CG	5.53	111.50	103.20
1	kl	85	PRO	CA-C-N	5.53	128.83	120.75
1	kl	85	PRO	C-N-CA	5.53	128.83	120.75
1	kn	69	LEU	CA-C-N	5.53	129.96	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	69	LEU	C-N-CA	5.53	129.96	120.72
1	kp	43	LEU	N-CA-C	-5.53	106.20	113.17
1	kx	19	THR	CB-CA-C	-5.53	100.39	110.63
1	kP	66	MET	CA-C-O	5.53	126.35	120.10
1	kX	142	VAL	CA-CB-CG2	5.53	119.81	110.40
1	25	141	ILE	N-CA-C	5.53	116.17	110.36
1	l4	112	GLN	N-CA-CB	5.53	118.25	110.12
1	la	191	VAL	CA-C-O	-5.53	114.98	120.85
1	lw	215	MET	CG-SD-CE	-5.53	88.73	100.90
1	lA	49	PRO	CA-C-N	5.53	127.70	120.28
1	lA	49	PRO	C-N-CA	5.53	127.70	120.28
1	29	123	PRO	N-CA-C	5.53	119.92	111.34
1	lF	4	GLN	O-C-N	-5.53	116.85	123.27
1	lG	100	ARG	N-CA-CB	-5.53	102.53	110.44
1	lK	78	ALA	CA-C-N	5.53	127.63	120.44
1	lK	78	ALA	C-N-CA	5.53	127.63	120.44
1	lM	18	ARG	CG-CD-NE	-5.53	99.83	112.00
1	2g	84	HIS	CA-CB-CG	5.53	119.33	113.80
1	2m	109	SER	N-CA-C	5.53	119.26	109.96
1	2q	86	VAL	N-CA-CB	5.53	119.35	111.82
1	2z	209	ALA	CB-CA-C	-5.53	100.05	110.51
1	31	87	HIS	CB-CA-C	5.53	118.53	109.90
1	31	134	ILE	O-C-N	-5.53	116.49	121.91
1	32	47	ALA	CA-C-O	-5.53	114.29	120.54
1	3b	81	ASP	CA-C-O	-5.53	114.68	120.55
1	3o	222	GLY	O-C-N	-5.53	115.51	122.70
1	3u	229	ARG	NH1-CZ-NH2	-5.53	112.11	119.30
1	3D	151	LEU	O-C-N	-5.53	115.42	122.34
1	3Z	195	ASN	N-CA-CB	-5.53	100.52	110.37
1	4b	37	ILE	O-C-N	-5.53	116.14	120.07
1	4g	177	ALA	N-CA-C	5.53	118.47	110.28
1	4t	18	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	4t	89	GLY	CA-C-N	5.53	126.76	119.84
1	4t	89	GLY	C-N-CA	5.53	126.76	119.84
1	4x	173	ARG	N-CA-C	5.53	117.31	111.28
1	4U	210	THR	N-CA-CB	5.53	118.14	110.17
1	4V	129	ILE	CA-C-N	5.53	128.15	120.29
1	4V	129	ILE	C-N-CA	5.53	128.15	120.29
1	4V	188	THR	CA-C-N	5.53	127.69	120.28
1	4V	188	THR	C-N-CA	5.53	127.69	120.28
1	51	210	THR	CA-CB-OG1	5.53	117.90	109.60
1	54	150	ILE	CA-CB-CG1	5.53	119.81	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	55	100	ARG	O-C-N	-5.53	116.74	122.94
1	59	68	MET	O-C-N	5.53	128.69	122.22
1	5a	166	ASP	CA-C-O	5.53	126.40	120.70
1	5d	191	VAL	CA-CB-CG1	5.53	119.81	110.40
1	5h	189	LEU	N-CA-C	5.53	117.31	111.28
1	5j	143	ARG	NH1-CZ-NH2	-5.53	112.11	119.30
1	5n	14	ALA	CA-C-N	5.53	127.99	120.63
1	5n	14	ALA	C-N-CA	5.53	127.99	120.63
1	5v	163	ASP	CA-C-N	5.53	127.69	120.28
1	5v	163	ASP	C-N-CA	5.53	127.69	120.28
1	5T	132	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	6b	148	THR	N-CA-CB	5.53	119.79	110.77
1	6b	175	GLU	N-CA-C	5.53	117.72	109.59
1	6j	39	MET	CA-C-N	5.53	132.11	121.54
1	6j	39	MET	C-N-CA	5.53	132.11	121.54
1	6v	107	THR	N-CA-C	-5.53	105.65	112.90
1	6x	1	PRO	CB-CA-C	5.53	120.61	110.10
1	6T	170	LYS	CA-CB-CG	-5.53	103.03	114.10
1	7h	67	GLN	CA-C-N	5.53	128.01	120.54
1	7h	67	GLN	C-N-CA	5.53	128.01	120.54
1	7i	68	MET	CA-C-N	5.53	127.96	120.38
1	7i	68	MET	C-N-CA	5.53	127.96	120.38
1	7y	197	ASP	O-C-N	-5.53	115.84	122.15
1	7K	185	MET	CB-CA-C	-5.53	102.19	110.88
1	7L	192	GLN	N-CA-C	5.53	120.50	111.37
1	83	5	ASN	OD1-CG-ND2	-5.53	117.07	122.60
1	88	146	SER	N-CA-CB	5.53	120.22	110.37
1	8p	17	PRO	N-CA-C	-5.53	106.18	113.65
1	94	6	LEU	O-C-N	-5.53	116.00	122.81
1	94	46	GLY	CA-C-N	5.53	129.77	122.30
1	94	46	GLY	C-N-CA	5.53	129.77	122.30
1	9g	226	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	9v	127	GLY	CA-C-N	5.53	128.15	120.29
1	9v	127	GLY	C-N-CA	5.53	128.15	120.29
1	9w	174	ALA	CA-C-N	5.53	129.33	121.42
1	9w	174	ALA	C-N-CA	5.53	129.33	121.42
1	a4	31	ALA	O-C-N	-5.53	115.23	122.59
1	ac	92	GLU	CA-C-N	5.53	126.76	119.84
1	ac	92	GLU	C-N-CA	5.53	126.76	119.84
1	ag	19	THR	CA-C-N	5.53	127.63	120.44
1	ag	19	THR	C-N-CA	5.53	127.63	120.44
1	ah	33	SER	O-C-N	-5.53	117.61	121.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	228	ALA	N-CA-CB	-5.53	102.30	110.49
1	aB	25	LYS	N-CA-C	5.53	117.39	111.36
1	aB	230	VAL	CB-CA-C	5.53	119.20	111.34
1	aJ	69	LEU	N-CA-CB	5.53	118.03	110.01
1	aO	197	ASP	O-C-N	-5.53	114.35	122.43
1	aW	214	MET	CA-C-N	5.53	128.15	120.29
1	aW	214	MET	C-N-CA	5.53	128.15	120.29
1	b9	55	MET	N-CA-C	5.53	116.99	111.07
1	ba	59	VAL	N-CA-C	5.53	116.40	108.93
1	bl	56	LEU	CA-C-N	5.53	127.69	120.28
1	bl	56	LEU	C-N-CA	5.53	127.69	120.28
1	bl	69	LEU	O-C-N	-5.53	116.37	122.07
1	bu	139	ASN	CA-C-O	5.53	126.63	120.82
1	bw	108	THR	OG1-CB-CG2	-5.53	98.23	109.30
1	bR	219	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	ce	213	GLU	N-CA-C	5.53	117.31	111.28
1	cn	43	LEU	N-CA-C	5.53	118.24	111.82
1	ct	19	THR	O-C-N	-5.53	116.25	122.12
1	ct	183	ASN	N-CA-C	5.53	116.99	111.07
1	cP	37	ILE	CB-CA-C	-5.53	108.48	114.35
1	1h	201	ILE	N-CA-CB	5.53	117.65	110.57
1	cW	171	THR	O-C-N	-5.53	115.84	122.15
1	1i	45	GLU	N-CA-CB	5.53	118.25	109.51
1	dx	151	LEU	N-CA-CB	5.53	118.74	110.22
1	1n	21	ASN	CA-CB-CG	5.53	118.13	112.60
1	dT	9	GLN	O-C-N	-5.53	117.50	123.42
1	eb	79	GLU	N-CA-CB	5.53	118.09	110.07
1	ef	95	GLN	N-CA-C	5.53	118.35	110.10
1	eo	13	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	eo	226	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	ep	200	THR	CA-C-N	5.53	128.04	120.46
1	ep	200	THR	C-N-CA	5.53	128.04	120.46
1	es	183	ASN	CA-C-N	5.53	127.70	120.28
1	es	183	ASN	C-N-CA	5.53	127.70	120.28
1	ev	172	LEU	CA-C-N	5.53	127.69	120.28
1	ev	172	LEU	C-N-CA	5.53	127.69	120.28
1	eE	12	HIS	O-C-N	-5.53	116.48	122.79
1	eM	167	ARG	N-CA-C	5.53	117.31	111.28
1	1t	126	VAL	CA-C-N	5.53	126.09	120.00
1	1t	126	VAL	C-N-CA	5.53	126.09	120.00
1	eT	194	ALA	N-CA-C	5.53	117.87	110.35
1	1w	84	HIS	CA-CB-CG	5.53	119.33	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fC	25	LYS	N-CA-C	5.53	119.75	112.89
1	fM	117	TRP	CB-CG-CD2	5.53	134.55	126.80
1	g3	62	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	p	140	LYS	N-CA-C	5.53	117.12	111.14
1	s	97	ARG	N-CA-CB	5.53	117.96	110.38
1	x	211	LEU	O-C-N	-5.53	116.25	122.12
1	H	37	ILE	CB-CA-C	-5.53	108.48	114.35
1	S	7	GLN	CG-CD-NE2	5.53	124.70	116.40
1	T	208	ALA	O-C-N	-5.53	112.96	122.20
1	V	176	GLN	O-C-N	-5.53	115.67	122.25
1	V	228	ALA	N-CA-C	5.53	118.75	111.28
1	gB	20	LEU	N-CA-C	5.53	116.99	111.07
1	gG	192	GLN	OE1-CD-NE2	5.53	128.13	122.60
1	gW	175	GLU	N-CA-C	5.53	118.25	110.23
1	hq	146	SER	N-CA-C	5.53	116.62	109.65
1	hC	121	ASN	CA-C-O	-5.53	113.79	119.49
1	hF	132	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	hK	101	GLY	CA-C-N	5.53	127.69	120.28
1	hK	101	GLY	C-N-CA	5.53	127.69	120.28
1	hO	133	TRP	CA-C-N	5.53	127.64	120.56
1	hO	133	TRP	C-N-CA	5.53	127.64	120.56
1	hX	83	LEU	N-CA-C	5.53	117.31	111.28
1	i3	172	LEU	N-CA-CB	-5.53	101.97	110.16
1	i5	19	THR	N-CA-CB	5.53	118.03	110.01
1	i9	55	MET	N-CA-C	5.53	117.00	110.97
1	je	120	HIS	CB-CG-CD2	5.53	138.39	131.20
1	jh	204	ALA	CA-C-O	5.53	126.12	119.43
1	jl	57	ASN	N-CA-C	5.53	118.02	111.33
1	js	78	ALA	N-CA-C	5.53	117.31	111.28
1	jM	85	PRO	CA-C-N	5.53	129.98	122.90
1	jM	85	PRO	C-N-CA	5.53	129.98	122.90
1	jT	11	VAL	CA-CB-CG2	5.53	119.81	110.40
1	k1	97	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	k3	135	ILE	N-CA-C	5.53	116.26	110.62
1	k9	58	THR	N-CA-C	5.53	118.02	111.33
1	kJ	77	ALA	O-C-N	5.53	127.98	122.12
1	l6	7	GLN	CA-C-O	5.53	125.90	119.32
1	26	161	PHE	N-CA-C	-5.53	106.03	112.89
1	lc	113	GLU	CA-C-N	5.53	127.96	120.38
1	lc	113	GLU	C-N-CA	5.53	127.96	120.38
1	ld	90	PRO	CA-C-O	-5.53	115.22	122.19
1	lC	81	ASP	CA-C-N	5.53	129.96	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	81	ASP	C-N-CA	5.53	129.96	120.72
1	lE	137	GLY	CA-C-N	5.53	127.63	120.44
1	lE	137	GLY	C-N-CA	5.53	127.63	120.44
1	lF	141	ILE	CA-C-N	5.53	129.37	120.30
1	lF	141	ILE	C-N-CA	5.53	129.37	120.30
1	lH	159	GLU	CA-C-N	5.53	126.75	119.84
1	lH	159	GLU	C-N-CA	5.53	126.75	119.84
1	lJ	72	THR	N-CA-C	5.53	117.39	111.36
1	lQ	153	ILE	O-C-N	-5.53	117.37	123.18
1	3a	74	ASN	N-CA-C	5.53	117.77	111.02
1	3s	202	LEU	N-CA-CB	5.53	118.44	110.20
1	3B	108	THR	CA-CB-OG1	5.53	117.90	109.60
1	3H	44	SER	CA-C-N	5.53	130.06	121.26
1	3H	44	SER	C-N-CA	5.53	130.06	121.26
1	3J	216	THR	CA-C-O	-5.53	113.06	119.14
1	47	213	GLU	N-CA-C	5.53	117.31	111.28
1	4b	130	TYR	CA-C-N	5.53	127.63	120.44
1	4b	130	TYR	C-N-CA	5.53	127.63	120.44
1	4k	221	VAL	CB-CA-C	-5.53	102.44	110.63
1	4A	194	ALA	N-CA-C	5.53	117.68	110.43
1	4D	104	ILE	CB-CA-C	-5.53	104.89	111.97
1	4O	54	THR	N-CA-CB	5.53	118.25	110.12
1	5b	124	ILE	CA-C-O	-5.53	115.16	119.20
1	5H	188	THR	CA-CB-CG2	5.53	119.90	110.50
1	5L	195	ASN	CB-CA-C	5.53	118.18	109.27
1	5M	171	THR	N-CA-C	5.53	117.39	111.36
1	5U	125	PRO	O-C-N	-5.53	115.17	122.64
1	6M	87	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	6T	107	THR	CA-CB-CG2	5.53	119.90	110.50
1	74	178	SER	O-C-N	-5.53	116.22	122.97
1	7a	113	GLU	CA-C-N	5.53	127.95	120.65
1	7a	113	GLU	C-N-CA	5.53	127.95	120.65
1	7t	29	GLU	N-CA-C	5.53	117.39	111.36
1	8p	74	ASN	N-CA-C	5.53	117.31	111.28
1	8t	86	VAL	N-CA-C	5.53	117.60	109.63
1	8B	70	LYS	CA-C-N	5.53	127.63	120.44
1	8B	70	LYS	C-N-CA	5.53	127.63	120.44
1	8C	198	CYS	CB-CA-C	5.53	119.97	110.79
1	8N	84	HIS	CA-C-N	5.53	125.46	119.76
1	8N	84	HIS	C-N-CA	5.53	125.46	119.76
1	8O	195	ASN	CB-CA-C	5.53	118.53	109.46
1	10	165	VAL	O-C-N	-5.53	116.41	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aF	16	SER	N-CA-C	5.53	117.45	109.48
1	aI	43	LEU	CA-C-O	5.53	126.19	119.11
1	aQ	20	LEU	O-C-N	-5.53	115.47	122.27
1	aV	51	ASP	CA-C-N	5.53	128.15	120.29
1	aV	51	ASP	C-N-CA	5.53	128.15	120.29
1	aY	28	GLU	CB-CA-C	-5.53	101.45	110.85
1	b8	21	ASN	CA-C-N	5.53	128.15	120.29
1	b8	21	ASN	C-N-CA	5.53	128.15	120.29
1	bk	190	LEU	N-CA-C	5.53	116.99	111.07
1	bZ	69	LEU	CA-C-N	5.53	127.69	120.28
1	bZ	69	LEU	C-N-CA	5.53	127.69	120.28
1	ct	117	TRP	CA-C-O	-5.53	113.61	119.97
1	d1	48	THR	O-C-N	-5.53	115.44	121.53
1	ds	199	LYS	O-C-N	-5.53	116.34	122.09
1	du	39	MET	CA-C-N	5.53	128.01	120.54
1	du	39	MET	C-N-CA	5.53	128.01	120.54
1	dF	86	VAL	CA-C-N	5.53	132.11	121.54
1	dF	86	VAL	C-N-CA	5.53	132.11	121.54
1	e7	93	PRO	N-CA-CB	-5.53	98.39	103.31
1	ea	71	GLU	N-CA-C	5.53	117.31	111.28
1	1q	73	ILE	N-CA-C	5.53	116.26	110.62
1	er	192	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	ew	34	PRO	N-CA-C	5.53	123.86	112.47
1	ez	200	THR	CA-C-O	-5.53	114.98	120.90
1	1A	176	GLN	N-CA-C	5.53	117.68	110.43
1	j	92	GLU	N-CA-C	5.53	122.04	109.81
1	9	186	THR	N-CA-CB	5.53	118.25	110.12
1	ga	206	GLY	CA-C-N	5.53	126.75	119.84
1	ga	206	GLY	C-N-CA	5.53	126.75	119.84
1	gb	36	VAL	CA-C-N	5.53	124.75	120.33
1	gb	36	VAL	C-N-CA	5.53	124.75	120.33
1	gc	150	ILE	N-CA-C	5.53	116.92	110.62
1	1C	121	ASN	CB-CA-C	5.53	117.50	109.20
1	gv	106	GLY	CA-C-N	5.53	128.14	120.29
1	gv	106	GLY	C-N-CA	5.53	128.14	120.29
1	gz	72	THR	O-C-N	-5.53	115.84	122.15
1	gJ	218	CYS	O-C-N	-5.53	115.23	122.59
1	gO	29	GLU	O-C-N	-5.53	115.08	122.49
1	h3	154	ARG	CG-CD-NE	-5.53	99.83	112.00
1	1I	143	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	hh	185	MET	O-C-N	-5.53	116.37	122.07
1	hm	48	THR	O-C-N	-5.53	114.15	121.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hw	153	ILE	CA-CB-CG1	5.53	119.80	110.40
1	hx	217	ALA	CA-C-O	5.53	126.99	120.96
1	hz	21	ASN	CA-C-N	5.53	127.63	120.44
1	hz	21	ASN	C-N-CA	5.53	127.63	120.44
1	hJ	209	ALA	N-CA-C	5.53	118.25	110.23
1	hM	188	THR	CA-C-N	5.53	127.69	120.28
1	hM	188	THR	C-N-CA	5.53	127.69	120.28
1	hS	211	LEU	CA-C-N	5.53	128.01	120.54
1	hS	211	LEU	C-N-CA	5.53	128.01	120.54
1	1M	184	TRP	N-CA-CB	5.53	118.03	110.01
1	i1	183	ASN	CA-CB-CG	-5.53	107.07	112.60
1	if	3	VAL	O-C-N	-5.53	116.69	123.00
1	if	82	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	ii	51	ASP	N-CA-C	-5.53	105.33	111.36
1	iu	33	SER	CA-C-O	-5.53	115.25	120.34
1	iG	110	THR	CA-CB-OG1	5.53	117.89	109.60
1	iJ	124	ILE	CA-C-O	-5.53	115.05	119.25
1	iS	201	ILE	O-C-N	-5.53	116.51	121.87
1	iZ	165	VAL	O-C-N	-5.53	116.50	121.87
1	j4	66	MET	N-CA-CB	5.53	118.25	110.12
1	j6	69	LEU	O-C-N	-5.53	116.26	122.12
1	ja	63	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	jf	31	ALA	CB-CA-C	-5.53	108.60	116.34
1	jk	202	LEU	N-CA-C	5.53	118.02	111.33
1	jn	64	ALA	O-C-N	-5.53	115.84	122.15
1	jv	62	HIS	CA-C-O	5.53	129.00	122.14
1	jy	10	MET	CA-C-N	5.53	130.46	123.10
1	jy	10	MET	C-N-CA	5.53	130.46	123.10
1	jz	82	ARG	CA-C-N	5.53	128.00	120.54
1	jz	82	ARG	C-N-CA	5.53	128.00	120.54
1	jz	193	ASN	CB-CG-ND2	-5.53	108.10	116.40
1	jM	33	SER	CA-C-N	5.53	126.26	120.12
1	jM	33	SER	C-N-CA	5.53	126.26	120.12
1	jV	161	PHE	N-CA-CB	5.53	119.84	110.49
1	jX	3	VAL	O-C-N	5.53	128.73	122.98
1	jX	216	THR	O-C-N	-5.53	114.83	122.46
1	k6	188	THR	O-C-N	-5.53	116.37	121.79
1	kb	201	ILE	N-CA-C	5.53	116.26	110.62
1	21	118	MET	N-CA-C	5.53	119.29	112.54
1	km	175	GLU	O-C-N	-5.53	116.14	122.89
1	kn	162	ARG	N-CA-CB	5.53	118.74	110.22
1	ko	175	GLU	CA-C-O	5.53	127.35	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ko	194	ALA	CA-C-N	5.53	129.06	120.60
1	ko	194	ALA	C-N-CA	5.53	129.06	120.60
1	22	150	ILE	CA-C-O	5.53	126.71	119.85
1	kx	113	GLU	N-CA-C	5.53	117.31	111.28
1	kC	212	GLU	O-C-N	-5.53	116.37	122.07
1	kG	182	LYS	O-C-N	-5.53	116.26	122.12
1	kM	88	ALA	CA-C-O	5.53	127.23	121.15
1	24	133	TRP	N-CA-C	-5.53	104.89	111.69
1	kQ	6	LEU	CA-C-O	5.53	126.33	119.97
1	kW	143	ARG	CB-CG-CD	5.53	124.02	111.30
1	lk	18	ARG	O-C-N	-5.53	116.26	122.12
1	lp	129	ILE	CA-C-O	-5.53	115.20	120.95
1	lH	6	LEU	N-CA-C	5.53	122.58	110.80
1	lI	55	MET	CG-SD-CE	-5.53	88.73	100.90
1	36	230	VAL	O-C-N	-5.53	117.50	123.14
1	3e	153	ILE	CA-CB-CG2	5.53	119.90	110.50
1	3q	222	GLY	N-CA-C	5.53	119.66	112.25
1	3N	97	ARG	O-C-N	-5.53	116.14	122.89
1	41	129	ILE	CB-CA-C	-5.53	104.67	112.14
1	48	92	GLU	CB-CG-CD	-5.53	103.20	112.60
1	48	202	LEU	N-CA-CB	5.53	118.85	110.28
1	4b	82	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	4i	104	ILE	O-C-N	-5.53	116.50	121.87
1	4j	7	GLN	N-CA-CB	5.53	119.84	110.49
1	4l	26	VAL	CA-CB-CG1	5.53	119.80	110.40
1	4s	30	LYS	CG-CD-CE	5.53	124.02	111.30
1	4v	146	SER	CB-CA-C	-5.53	100.81	109.11
1	4A	4	GLN	CB-CA-C	5.53	119.11	109.65
1	4J	124	ILE	N-CA-C	5.53	112.59	107.56
1	4M	229	ARG	O-C-N	-5.53	114.36	122.43
1	4Y	45	GLU	N-CA-C	-5.53	100.10	108.67
1	53	202	LEU	N-CA-C	5.53	118.07	111.71
1	5g	93	PRO	N-CA-C	5.53	123.86	112.47
1	5g	114	GLN	CA-C-O	-5.53	114.69	120.55
1	5m	63	GLN	N-CA-C	5.53	118.02	111.33
1	5B	10	MET	N-CA-C	-5.53	99.40	108.41
1	5D	210	THR	CA-C-N	5.53	128.25	120.28
1	5D	210	THR	C-N-CA	5.53	128.25	120.28
1	5R	115	ILE	CB-CA-C	-5.53	104.67	112.14
1	5S	110	THR	CA-C-N	5.53	127.69	120.28
1	5S	110	THR	C-N-CA	5.53	127.69	120.28
1	5V	84	HIS	CA-C-O	-5.53	113.85	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	65	ALA	CA-C-N	5.53	128.72	120.31
1	5X	65	ALA	C-N-CA	5.53	128.72	120.31
1	62	130	TYR	CA-C-N	5.53	127.69	120.28
1	62	130	TYR	C-N-CA	5.53	127.69	120.28
1	6b	81	ASP	N-CA-C	5.53	117.31	111.28
1	6o	33	SER	CA-C-N	5.53	124.88	118.85
1	6o	33	SER	C-N-CA	5.53	124.88	118.85
1	6u	134	ILE	N-CA-C	5.53	116.31	110.72
1	6G	73	ILE	N-CA-C	5.53	116.17	110.36
1	6H	103	ASP	CB-CA-C	-5.53	101.45	110.85
1	6J	146	SER	CA-C-N	5.53	125.62	119.32
1	6J	146	SER	C-N-CA	5.53	125.62	119.32
1	6L	28	GLU	CA-C-N	5.53	127.69	120.28
1	6L	28	GLU	C-N-CA	5.53	127.69	120.28
1	6N	4	GLN	N-CA-CB	5.53	119.84	110.49
1	6N	84	HIS	CA-C-N	5.53	125.53	119.89
1	6N	84	HIS	C-N-CA	5.53	125.53	119.89
1	70	32	PHE	CA-CB-CG	-5.53	108.27	113.80
1	75	122	PRO	CA-C-N	5.53	126.75	119.84
1	75	122	PRO	C-N-CA	5.53	126.75	119.84
1	7e	200	THR	O-C-N	-5.53	116.37	122.07
1	7m	53	ASN	CA-C-N	5.53	127.69	120.28
1	7m	53	ASN	C-N-CA	5.53	127.69	120.28
1	7m	86	VAL	N-CA-C	5.53	116.72	109.58
1	7n	49	PRO	CA-C-N	5.53	127.63	120.44
1	7n	49	PRO	C-N-CA	5.53	127.63	120.44
1	7o	62	HIS	CB-CA-C	-5.53	103.73	111.80
1	7o	167	ARG	N-CA-C	5.53	117.31	111.28
1	7D	23	TRP	N-CA-C	5.53	116.99	111.07
1	7M	163	ASP	CA-CB-CG	-5.53	107.07	112.60
1	7Q	186	THR	CA-C-N	5.53	128.14	120.29
1	7Q	186	THR	C-N-CA	5.53	128.14	120.29
1	8a	63	GLN	N-CA-C	5.53	118.23	111.82
1	8w	192	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	8K	159	GLU	N-CA-C	5.53	117.61	109.42
1	8Q	87	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	8Q	124	ILE	CA-CB-CG1	5.53	119.80	110.40
1	8X	195	ASN	CA-C-O	-5.53	114.44	120.69
1	90	100	ARG	NE-CZ-NH2	-5.53	114.22	119.20
1	96	211	LEU	O-C-N	-5.53	116.34	122.09
1	9a	228	ALA	O-C-N	-5.53	116.01	122.81
1	9f	115	ILE	CA-C-N	5.53	125.97	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9f	115	ILE	C-N-CA	5.53	125.97	119.94
1	9h	116	GLY	CA-C-N	5.53	127.69	120.28
1	9h	116	GLY	C-N-CA	5.53	127.69	120.28
1	9p	175	GLU	N-CA-C	-5.53	106.12	112.92
1	9s	145	TYR	CA-CB-CG	-5.53	103.94	113.90
1	9R	143	ARG	NE-CZ-NH2	5.53	124.18	119.20
1	9S	51	ASP	CA-CB-CG	-5.53	107.07	112.60
1	9Z	18	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	al	107	THR	CB-CA-C	-5.53	100.07	109.03
1	an	9	GLN	CA-C-N	5.53	130.03	122.34
1	an	9	GLN	C-N-CA	5.53	130.03	122.34
1	ar	36	VAL	O-C-N	-5.53	116.28	121.87
1	12	214	MET	N-CA-C	5.53	118.83	111.75
1	az	56	LEU	N-CA-C	5.53	117.75	111.11
1	az	103	ASP	N-CA-C	5.53	117.75	111.11
1	aD	6	LEU	CA-C-N	5.53	128.72	120.87
1	aD	6	LEU	C-N-CA	5.53	128.72	120.87
1	aE	167	ARG	O-C-N	-5.53	115.85	122.15
1	aH	25	LYS	N-CA-C	5.53	117.31	111.28
1	aY	135	ILE	CA-CB-CG2	-5.53	101.10	110.50
1	b1	62	HIS	CG-ND1-CE1	-5.53	99.90	109.30
1	be	102	SER	CB-CA-C	-5.53	101.45	110.85
1	bm	24	VAL	O-C-N	5.53	128.05	121.80
1	bR	55	MET	N-CA-C	-5.53	105.15	111.07
1	ca	191	VAL	N-CA-C	5.53	116.31	110.72
1	cj	82	ARG	NE-CZ-NH2	-5.53	114.22	119.20
1	co	179	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	cp	189	LEU	CA-C-N	5.53	128.01	120.54
1	cp	189	LEU	C-N-CA	5.53	128.01	120.54
1	cz	152	ASP	N-CA-CB	-5.53	101.39	110.40
1	cS	150	ILE	N-CA-C	5.53	116.26	110.62
1	d9	12	HIS	CG-CD2-NE2	5.53	112.73	107.20
1	dn	95	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	dH	172	LEU	CA-C-N	5.53	127.69	120.28
1	dH	172	LEU	C-N-CA	5.53	127.69	120.28
1	dV	64	ALA	CA-C-N	5.53	127.96	120.38
1	dV	64	ALA	C-N-CA	5.53	127.96	120.38
1	dV	140	LYS	CA-C-N	5.53	127.53	120.56
1	dV	140	LYS	C-N-CA	5.53	127.53	120.56
1	dW	95	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	e9	172	LEU	CB-CA-C	-5.53	101.81	110.94
1	1q	192	GLN	OE1-CD-NE2	-5.53	117.07	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eC	120	HIS	O-C-N	-5.53	115.34	122.20
1	eE	66	MET	O-C-N	-5.53	116.12	122.09
1	f8	188	THR	N-CA-CB	5.53	119.84	110.49
1	f9	124	ILE	CB-CA-C	5.53	117.54	111.18
1	fo	142	VAL	CA-CB-CG1	5.53	119.80	110.40
1	fq	62	HIS	CA-C-N	5.53	128.14	120.29
1	fq	62	HIS	C-N-CA	5.53	128.14	120.29
1	ft	118	MET	CG-SD-CE	-5.53	88.73	100.90
1	fu	41	SER	CA-C-N	5.53	128.14	120.29
1	fu	41	SER	C-N-CA	5.53	128.14	120.29
1	fu	71	GLU	N-CA-C	5.53	117.75	111.11
1	fx	6	LEU	CA-C-N	5.53	130.94	121.87
1	fx	6	LEU	C-N-CA	5.53	130.94	121.87
1	fx	56	LEU	CA-C-N	5.53	129.45	120.60
1	fx	56	LEU	C-N-CA	5.53	129.45	120.60
1	fF	210	THR	CB-CA-C	-5.53	100.15	109.83
1	fS	53	ASN	N-CA-C	5.53	118.02	111.33
1	1B	119	THR	OG1-CB-CG2	-5.53	98.24	109.30
1	i	82	ARG	N-CA-C	5.53	116.99	111.07
1	i	111	LEU	CB-CA-C	5.53	119.66	110.81
1	i	164	TYR	O-C-N	-5.53	116.37	122.07
1	k	55	MET	CA-C-N	5.53	127.63	120.44
1	k	55	MET	C-N-CA	5.53	127.63	120.44
1	k	69	LEU	CA-C-N	5.53	127.69	120.28
1	k	69	LEU	C-N-CA	5.53	127.69	120.28
1	k	140	LYS	N-CA-C	5.53	117.31	111.28
1	u	14	ALA	N-CA-C	5.53	122.58	110.80
1	v	120	HIS	CB-CG-CD2	-5.53	124.01	131.20
1	Q	226	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	T	136	LEU	CA-C-O	5.53	126.41	120.55
1	V	173	ARG	CA-C-O	5.53	126.33	119.97
1	5	160	PRO	N-CA-CB	-5.53	98.67	103.32
1	7	10	MET	N-CA-CB	5.53	118.09	109.85
1	g8	80	TRP	CB-CG-CD2	-5.53	119.06	126.80
1	g9	45	GLU	N-CA-C	5.53	120.49	111.37
1	gk	5	ASN	CA-C-N	5.53	129.33	121.42
1	gk	5	ASN	C-N-CA	5.53	129.33	121.42
1	gw	162	ARG	CB-CG-CD	5.53	124.02	111.30
1	gz	58	THR	N-CA-C	-5.53	106.53	113.28
1	gW	55	MET	N-CA-C	5.53	116.99	111.07
1	hj	176	GLN	CB-CA-C	5.53	119.58	111.73
1	hp	209	ALA	O-C-N	-5.53	116.14	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	im	119	THR	CA-C-N	5.53	129.10	120.75
1	im	119	THR	C-N-CA	5.53	129.10	120.75
1	j1	191	VAL	CA-C-N	5.53	127.95	120.38
1	j1	191	VAL	C-N-CA	5.53	127.95	120.38
1	j8	136	LEU	CA-C-O	5.53	126.35	120.10
1	jU	128	GLU	N-CA-C	5.53	118.23	111.82
1	jX	85	PRO	N-CA-C	-5.53	105.99	113.40
1	k2	164	TYR	CA-C-N	5.53	128.03	120.46
1	k2	164	TYR	C-N-CA	5.53	128.03	120.46
1	k4	67	GLN	CA-C-N	5.53	127.63	120.44
1	k4	67	GLN	C-N-CA	5.53	127.63	120.44
1	kH	102	SER	N-CA-C	5.53	117.31	111.28
1	kQ	25	LYS	N-CA-C	5.53	117.31	111.28
1	l3	63	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	l4	221	VAL	N-CA-C	5.53	116.08	110.05
1	l8	7	GLN	OE1-CD-NE2	5.53	128.13	122.60
1	lq	24	VAL	CA-C-N	5.53	127.95	120.38
1	lq	24	VAL	C-N-CA	5.53	127.95	120.38
1	lF	48	THR	CA-C-N	5.53	125.88	119.47
1	lF	48	THR	C-N-CA	5.53	125.88	119.47
1	lR	14	ALA	O-C-N	-5.53	116.55	122.85
1	2l	191	VAL	CB-CA-C	-5.53	104.34	111.20
1	2q	229	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	2w	117	TRP	CA-CB-CG	-5.53	103.10	113.60
1	3N	86	VAL	O-C-N	5.53	128.70	122.18
1	4s	52	LEU	N-CA-CB	-5.53	101.99	110.01
1	4J	40	PHE	CA-CB-CG	-5.53	108.27	113.80
1	4Q	87	HIS	CB-CG-CD2	-5.53	124.01	131.20
1	4T	117	TRP	CA-C-O	5.53	126.39	120.70
1	57	195	ASN	CB-CG-ND2	5.53	124.69	116.40
1	5m	16	SER	N-CA-CB	-5.53	102.34	110.14
1	5G	33	SER	N-CA-C	5.53	115.24	108.11
1	5M	139	ASN	O-C-N	5.53	127.98	122.12
1	5V	97	ARG	O-C-N	-5.53	116.07	122.87
1	6B	95	GLN	OE1-CD-NE2	5.53	128.13	122.60
1	6D	140	LYS	CA-C-O	-5.53	114.56	120.42
1	6K	62	HIS	O-C-N	-5.53	115.24	122.59
1	6O	154	ARG	CA-C-N	5.53	129.99	122.19
1	6O	154	ARG	C-N-CA	5.53	129.99	122.19
1	6V	184	TRP	CB-CG-CD2	-5.53	119.06	126.80
1	6W	92	GLU	N-CA-C	5.53	116.66	109.64
1	78	52	LEU	CA-C-N	5.53	128.71	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	52	LEU	C-N-CA	5.53	128.71	120.31
1	7i	37	ILE	O-C-N	-5.53	116.88	120.42
1	7v	125	PRO	N-CA-CB	5.53	106.28	102.35
1	7w	121	ASN	O-C-N	-5.53	112.52	121.59
1	88	125	PRO	CA-C-N	5.53	129.37	120.30
1	88	125	PRO	C-N-CA	5.53	129.37	120.30
1	9u	36	VAL	N-CA-CB	5.53	118.06	110.54
1	aE	177	ALA	CA-C-O	-5.53	114.64	121.11
1	aF	58	THR	CA-CB-CG2	5.53	119.90	110.50
1	b9	35	GLU	CA-C-O	5.53	126.41	120.55
1	1b	108	THR	CA-C-O	5.53	125.22	119.14
1	c8	62	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	cU	132	ARG	CA-C-N	5.53	127.69	120.28
1	cU	132	ARG	C-N-CA	5.53	127.69	120.28
1	cZ	192	GLN	N-CA-C	5.53	118.07	111.71
1	d0	75	GLU	CB-CG-CD	5.53	122.00	112.60
1	do	99	PRO	O-C-N	-5.53	115.18	122.64
1	dG	39	MET	O-C-N	-5.53	115.85	122.15
1	eG	81	ASP	CA-CB-CG	-5.53	107.07	112.60
1	1t	18	ARG	N-CA-CB	-5.53	101.99	110.12
1	eT	184	TRP	CB-CG-CD1	-5.53	118.61	126.90
1	fj	13	GLN	CA-C-N	5.53	129.10	120.75
1	fj	13	GLN	C-N-CA	5.53	129.10	120.75
1	fA	21	ASN	CA-CB-CG	5.53	118.13	112.60
1	fQ	160	PRO	CA-C-N	5.53	128.00	120.54
1	fQ	160	PRO	C-N-CA	5.53	128.00	120.54
1	g4	48	THR	CA-CB-CG2	5.53	119.90	110.50
1	c	60	GLY	CA-C-N	5.53	128.59	121.13
1	c	60	GLY	C-N-CA	5.53	128.59	121.13
1	D	149	SER	O-C-N	-5.53	115.70	123.11
1	I	179	GLN	CA-C-N	5.53	127.69	120.28
1	I	179	GLN	C-N-CA	5.53	127.69	120.28
1	W	37	ILE	N-CA-CB	5.53	114.76	110.45
1	gb	201	ILE	N-CA-C	5.53	115.73	110.42
1	gc	73	ILE	CA-CB-CG1	5.53	119.80	110.40
1	gm	52	LEU	O-C-N	-5.53	116.38	122.07
1	gx	173	ARG	NE-CZ-NH2	5.53	124.17	119.20
1	gC	126	VAL	O-C-N	-5.53	116.51	121.87
1	gH	12	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	gS	4	GLN	O-C-N	-5.53	116.13	122.93
1	gU	21	ASN	OD1-CG-ND2	-5.53	117.07	122.60
1	gW	132	ARG	NH1-CZ-NH2	-5.53	112.11	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	he	112	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	hh	136	LEU	O-C-N	-5.53	116.26	122.12
1	hk	130	TYR	N-CA-C	5.53	117.31	111.28
1	hD	32	PHE	CA-CB-CG	-5.53	108.27	113.80
1	hH	195	ASN	OD1-CG-ND2	-5.53	117.07	122.60
1	ig	166	ASP	O-C-N	-5.53	116.26	122.12
1	ij	226	HIS	CB-CG-CD2	-5.53	124.02	131.20
1	iu	20	LEU	N-CA-C	5.53	118.02	111.33
1	iu	118	MET	N-CA-C	5.53	117.31	111.28
1	iB	214	MET	O-C-N	-5.53	116.26	122.12
1	iJ	159	GLU	CA-CB-CG	-5.53	103.04	114.10
1	iX	109	SER	O-C-N	-5.53	114.56	122.96
1	1T	159	GLU	CA-C-N	5.53	125.43	119.85
1	1T	159	GLU	C-N-CA	5.53	125.43	119.85
1	1T	162	ARG	N-CA-C	5.53	117.39	111.36
1	j2	143	ARG	CB-CA-C	-5.53	98.56	109.67
1	j7	212	GLU	CA-C-N	5.53	127.69	120.28
1	j7	212	GLU	C-N-CA	5.53	127.69	120.28
1	jp	185	MET	N-CA-CB	5.53	118.25	110.12
1	jv	47	ALA	N-CA-C	5.53	118.34	110.10
1	jF	133	TRP	O-C-N	-5.53	116.26	122.12
1	jR	166	ASP	CA-C-N	5.53	128.00	120.54
1	jR	166	ASP	C-N-CA	5.53	128.00	120.54
1	jX	200	THR	CA-C-O	-5.53	114.56	120.42
1	k0	92	GLU	CA-C-O	-5.53	114.44	120.69
1	k1	97	ARG	CA-C-O	5.53	127.95	121.87
1	k9	187	GLU	CA-CB-CG	-5.53	103.05	114.10
1	kj	132	ARG	O-C-N	-5.53	115.75	122.22
1	ky	195	ASN	CA-C-O	-5.53	114.44	120.69
1	kG	148	THR	CA-CB-OG1	5.53	117.89	109.60
1	kM	12	HIS	N-CA-C	-5.53	100.39	109.40
1	l9	18	ARG	NE-CZ-NH2	-5.53	114.23	119.20
1	ln	208	ALA	CB-CA-C	-5.53	101.78	110.85
1	lv	187	GLU	O-C-N	5.53	127.76	122.07
1	lw	173	ARG	CA-C-O	-5.53	115.02	120.82
1	lP	112	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	2h	189	LEU	CA-C-N	5.53	127.69	120.28
1	2h	189	LEU	C-N-CA	5.53	127.69	120.28
1	2n	69	LEU	CA-C-O	-5.53	114.69	120.55
1	2o	226	HIS	CB-CG-CD2	-5.53	124.02	131.20
1	2r	154	ARG	CA-C-N	5.53	129.10	120.75
1	2r	154	ARG	C-N-CA	5.53	129.10	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	82	ARG	NH1-CZ-NH2	-5.53	112.11	119.30
1	2D	109	SER	O-C-N	-5.53	115.85	122.65
1	2G	37	ILE	N-CA-CB	5.53	113.98	110.50
1	2S	87	HIS	O-C-N	-5.53	116.78	123.13
1	2X	134	ILE	N-CA-CB	5.53	117.02	110.55
1	3u	24	VAL	CA-C-N	5.53	127.69	120.28
1	3u	24	VAL	C-N-CA	5.53	127.69	120.28
1	3w	126	VAL	O-C-N	-5.53	116.51	121.87
1	3A	27	VAL	N-CA-C	5.53	116.26	110.62
1	3B	201	ILE	CA-C-O	5.53	126.44	120.47
1	3H	36	VAL	CA-C-O	-5.53	113.00	119.85
1	3O	152	ASP	CB-CA-C	-5.53	100.86	110.09
1	3T	106	GLY	CA-C-N	5.53	127.96	120.44
1	3T	106	GLY	C-N-CA	5.53	127.96	120.44
1	49	205	LEU	N-CA-C	5.53	119.28	112.54
1	4d	137	GLY	CA-C-O	5.53	126.44	120.75
1	4e	104	ILE	CA-C-O	5.53	127.02	121.27
1	4o	226	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	4r	183	ASN	N-CA-C	5.53	117.30	111.28
1	4z	4	GLN	N-CA-CB	5.53	119.83	110.49
1	4M	4	GLN	N-CA-CB	5.53	121.31	111.69
1	4Q	103	ASP	CA-C-N	5.53	128.03	120.46
1	4Q	103	ASP	C-N-CA	5.53	128.03	120.46
1	4T	30	LYS	CA-C-N	5.53	132.10	121.54
1	4T	30	LYS	C-N-CA	5.53	132.10	121.54
1	5c	110	THR	O-C-N	-5.53	117.29	123.48
1	5n	13	GLN	O-C-N	-5.53	115.37	122.94
1	5n	210	THR	O-C-N	-5.53	114.80	122.76
1	5q	62	HIS	N-CA-CB	5.53	119.83	110.49
1	65	7	GLN	CG-CD-NE2	5.53	124.69	116.40
1	67	82	ARG	CD-NE-CZ	5.53	132.14	124.40
1	6e	111	LEU	N-CA-C	5.53	117.31	111.28
1	6r	17	PRO	N-CA-CB	-5.53	97.45	103.25
1	6x	110	THR	O-C-N	5.53	129.45	122.65
1	6E	167	ARG	CG-CD-NE	-5.53	99.84	112.00
1	6S	46	GLY	O-C-N	-5.53	115.51	122.70
1	6S	117	TRP	O-C-N	-5.53	116.38	122.07
1	6U	160	PRO	CA-C-O	-5.53	115.24	121.43
1	6W	210	THR	CA-CB-OG1	5.53	117.89	109.60
1	72	204	ALA	N-CA-C	5.53	116.98	111.07
1	78	173	ARG	CA-C-O	5.53	126.28	120.42
1	7d	175	GLU	CB-CA-C	-5.53	100.16	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7g	20	LEU	N-CA-CB	5.53	118.25	110.12
1	7u	82	ARG	CD-NE-CZ	5.53	132.14	124.40
1	7J	213	GLU	CA-C-N	5.53	127.69	120.28
1	7J	213	GLU	C-N-CA	5.53	127.69	120.28
1	7K	213	GLU	CB-CG-CD	5.53	122.00	112.60
1	7Q	84	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	80	14	ALA	CA-C-O	-5.53	115.58	121.94
1	81	136	LEU	CA-C-N	5.53	126.22	120.03
1	81	136	LEU	C-N-CA	5.53	126.22	120.03
1	8c	81	ASP	CA-CB-CG	5.53	118.13	112.60
1	8w	200	THR	CA-C-N	5.53	128.03	120.46
1	8w	200	THR	C-N-CA	5.53	128.03	120.46
1	8D	209	ALA	N-CA-CB	-5.53	102.21	110.17
1	8I	223	GLY	CA-C-O	-5.53	113.61	121.52
1	8P	49	PRO	N-CA-CB	5.53	109.05	103.25
1	8V	79	GLU	N-CA-C	5.53	117.74	111.11
1	8X	223	GLY	CA-C-N	5.53	126.75	119.84
1	8X	223	GLY	C-N-CA	5.53	126.75	119.84
1	91	159	GLU	CA-C-N	5.53	125.53	119.89
1	91	159	GLU	C-N-CA	5.53	125.53	119.89
1	93	36	VAL	O-C-N	-5.53	116.41	121.94
1	96	139	ASN	OD1-CG-ND2	-5.53	117.07	122.60
1	97	7	GLN	N-CA-C	-5.53	101.10	108.34
1	9d	21	ASN	N-CA-CB	-5.53	101.99	110.12
1	9k	132	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	9s	98	GLU	CA-C-N	5.53	125.73	120.31
1	9s	98	GLU	C-N-CA	5.53	125.73	120.31
1	9w	120	HIS	CA-CB-CG	-5.53	108.27	113.80
1	9C	226	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	9F	51	ASP	CB-CA-C	-5.53	102.20	110.88
1	9P	141	ILE	CB-CA-C	5.53	119.26	112.02
1	Z	120	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	a3	201	ILE	CA-CB-CG1	5.53	119.80	110.40
1	ab	193	ASN	O-C-N	-5.53	115.50	122.19
1	11	166	ASP	N-CA-CB	-5.53	101.84	109.91
1	ao	213	GLU	CA-C-O	5.53	126.41	120.55
1	14	230	VAL	CA-CB-CG2	-5.53	101.00	110.40
1	aP	173	ARG	CA-C-O	5.53	126.39	120.70
1	aR	201	ILE	N-CA-CB	5.53	117.02	110.55
1	aW	23	TRP	O-C-N	5.53	127.76	122.07
1	16	40	PHE	O-C-N	-5.53	116.26	122.12
1	bb	210	THR	N-CA-C	5.53	117.67	110.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bC	185	MET	CG-SD-CE	-5.53	88.74	100.90
1	bF	12	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	bG	67	GLN	CA-C-N	5.53	128.00	120.54
1	bG	67	GLN	C-N-CA	5.53	128.00	120.54
1	bO	120	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	1b	198	CYS	CA-C-N	5.53	128.00	120.54
1	1b	198	CYS	C-N-CA	5.53	128.00	120.54
1	bX	109	SER	N-CA-CB	5.53	119.28	110.16
1	c1	119	THR	CA-CB-OG1	5.53	117.89	109.60
1	cE	170	LYS	N-CA-CB	5.53	118.34	110.16
1	cQ	45	GLU	CA-C-N	5.53	132.06	122.05
1	cQ	45	GLU	C-N-CA	5.53	132.06	122.05
1	cU	102	SER	O-C-N	-5.53	116.26	122.12
1	cX	131	LYS	N-CA-C	5.53	117.31	111.28
1	1i	174	ALA	CA-C-N	5.53	130.27	122.09
1	1i	174	ALA	C-N-CA	5.53	130.27	122.09
1	d9	217	ALA	N-CA-C	5.53	117.87	110.35
1	1j	193	ASN	CA-C-O	5.53	126.03	119.56
1	dg	6	LEU	N-CA-C	-5.53	106.42	112.72
1	dg	128	GLU	N-CA-CB	5.53	118.03	110.01
1	dr	224	PRO	CA-C-N	5.53	129.86	120.91
1	dr	224	PRO	C-N-CA	5.53	129.86	120.91
1	dx	67	GLN	N-CA-CB	5.53	118.25	110.12
1	dy	87	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	dC	131	LYS	N-CA-C	5.53	117.31	111.28
1	1m	33	SER	CA-C-N	5.53	126.75	119.84
1	1m	33	SER	C-N-CA	5.53	126.75	119.84
1	dJ	4	GLN	CA-C-N	5.53	131.23	122.94
1	dJ	4	GLN	C-N-CA	5.53	131.23	122.94
1	dO	168	PHE	N-CA-C	5.53	117.74	111.11
1	dQ	121	ASN	CB-CA-C	5.53	116.88	109.42
1	e3	45	GLU	O-C-N	-5.53	116.13	122.93
1	e8	86	VAL	CA-CB-CG1	5.53	119.80	110.40
1	ee	123	PRO	CA-C-O	-5.53	114.68	121.31
1	ek	110	THR	CA-C-N	5.53	128.71	120.31
1	ek	110	THR	C-N-CA	5.53	128.71	120.31
1	ep	37	ILE	O-C-N	-5.53	114.80	121.10
1	eq	126	VAL	CA-CB-CG2	5.53	119.80	110.40
1	er	25	LYS	N-CA-C	5.53	118.23	111.82
1	ev	23	TRP	CB-CA-C	5.53	119.56	110.88
1	ew	166	ASP	CB-CA-C	5.53	119.97	110.79
1	1s	114	GLN	O-C-N	-5.53	116.38	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eI	156	GLY	O-C-N	-5.53	116.24	121.77
1	eJ	206	GLY	CA-C-N	5.53	126.75	119.84
1	eJ	206	GLY	C-N-CA	5.53	126.75	119.84
1	eU	68	MET	CA-C-O	5.53	126.34	120.10
1	fa	59	VAL	N-CA-CB	5.53	116.56	110.53
1	fh	86	VAL	CA-C-N	5.53	130.35	122.72
1	fh	86	VAL	C-N-CA	5.53	130.35	122.72
1	fl	19	THR	CA-C-N	5.53	127.96	120.44
1	fl	19	THR	C-N-CA	5.53	127.96	120.44
1	fx	127	GLY	CA-C-O	5.53	126.00	120.09
1	g6	141	ILE	N-CA-CB	5.53	118.06	110.54
1	b	62	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	c	99	PRO	N-CA-C	5.53	123.86	112.47
1	d	161	PHE	CA-CB-CG	-5.53	108.27	113.80
1	g	130	TYR	N-CA-CB	5.53	118.25	110.12
1	C	22	ALA	N-CA-C	5.53	117.39	111.36
1	H	100	ARG	O-C-N	-5.53	115.85	122.65
1	Q	92	GLU	CA-C-N	5.53	125.84	119.93
1	Q	92	GLU	C-N-CA	5.53	125.84	119.93
1	V	218	CYS	CA-C-O	5.53	125.70	119.18
1	gf	16	SER	N-CA-CB	5.53	118.75	110.02
1	gx	89	GLY	N-CA-C	5.53	123.61	112.34
1	gJ	29	GLU	O-C-N	-5.53	116.38	122.07
1	gV	51	ASP	N-CA-C	5.53	117.74	111.11
1	1G	163	ASP	CA-C-N	5.53	127.62	120.44
1	1G	163	ASP	C-N-CA	5.53	127.62	120.44
1	gZ	167	ARG	N-CA-C	5.53	117.38	111.36
1	h2	143	ARG	NE-CZ-NH2	-5.53	114.23	119.20
1	h7	134	ILE	N-CA-CB	5.53	118.06	110.54
1	ha	73	ILE	CB-CA-C	5.53	119.04	111.97
1	hf	211	LEU	CA-C-N	5.53	127.69	120.28
1	hf	211	LEU	C-N-CA	5.53	127.69	120.28
1	1I	74	ASN	CA-C-N	5.53	127.62	120.44
1	1I	74	ASN	C-N-CA	5.53	127.62	120.44
1	hj	64	ALA	CB-CA-C	-5.53	101.46	110.85
1	hu	52	LEU	CA-C-O	-5.53	114.69	120.55
1	hD	33	SER	CA-C-O	-5.53	115.53	120.56
1	hE	142	VAL	N-CA-C	5.53	116.25	110.62
1	hH	214	MET	CA-C-N	5.53	128.00	120.54
1	hH	214	MET	C-N-CA	5.53	128.00	120.54
1	hQ	155	GLN	OE1-CD-NE2	-5.53	117.08	122.60
1	ib	167	ARG	NE-CZ-NH2	5.53	124.17	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iq	138	LEU	CA-C-O	-5.53	114.69	120.55
1	ir	209	ALA	CA-C-N	5.53	133.18	122.07
1	ir	209	ALA	C-N-CA	5.53	133.18	122.07
1	iG	72	THR	N-CA-C	5.53	116.98	111.07
1	iG	82	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	iQ	217	ALA	O-C-N	-5.53	116.22	122.68
1	j0	20	LEU	CA-C-N	5.53	127.62	120.44
1	j0	20	LEU	C-N-CA	5.53	127.62	120.44
1	j0	112	GLN	OE1-CD-NE2	-5.53	117.08	122.60
1	j9	155	GLN	CB-CG-CD	5.53	121.99	112.60
1	1U	37	ILE	CA-CB-CG2	5.53	119.89	110.50
1	jd	135	ILE	N-CA-C	5.53	116.92	110.62
1	jh	67	GLN	OE1-CD-NE2	-5.53	117.07	122.60
1	1V	180	GLU	N-CA-CB	5.53	118.24	110.12
1	jv	33	SER	N-CA-C	-5.53	101.84	108.25
1	jx	132	ARG	CA-CB-CG	-5.53	103.05	114.10
1	jC	76	GLU	N-CA-CB	5.53	118.34	110.16
1	jC	78	ALA	CA-C-O	5.53	126.62	120.82
1	jH	180	GLU	N-CA-C	5.53	117.30	111.28
1	jL	143	ARG	CG-CD-NE	-5.53	99.84	112.00
1	jM	69	LEU	CA-C-N	5.53	128.24	120.28
1	jM	69	LEU	C-N-CA	5.53	128.24	120.28
1	jM	225	GLY	CA-C-N	5.53	128.61	120.82
1	jM	225	GLY	C-N-CA	5.53	128.61	120.82
1	jR	98	GLU	N-CA-C	-5.53	101.02	109.64
1	ka	176	GLN	OE1-CD-NE2	-5.53	117.08	122.60
1	kh	85	PRO	CB-CA-C	5.53	120.68	111.56
1	kD	50	GLN	N-CA-C	5.53	117.30	111.28
1	23	114	GLN	CA-C-O	5.53	126.62	120.82
1	kF	219	GLN	CA-C-O	5.53	128.40	121.66
1	kM	199	LYS	CA-C-N	5.53	129.98	121.19
1	kM	199	LYS	C-N-CA	5.53	129.98	121.19
1	kS	143	ARG	N-CA-C	5.53	118.06	111.71
1	l1	199	LYS	CA-C-N	5.53	127.62	120.44
1	l1	199	LYS	C-N-CA	5.53	127.62	120.44
1	lb	110	THR	CA-C-N	5.53	127.62	120.44
1	lb	110	THR	C-N-CA	5.53	127.62	120.44
1	ld	51	ASP	CA-C-N	5.53	128.14	120.29
1	ld	51	ASP	C-N-CA	5.53	128.14	120.29
1	lf	176	GLN	O-C-N	-5.53	115.43	122.34
1	27	82	ARG	CA-C-N	5.53	127.68	120.28
1	27	82	ARG	C-N-CA	5.53	127.68	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ll	75	GLU	CA-C-N	5.53	127.69	120.28
1	ll	75	GLU	C-N-CA	5.53	127.69	120.28
1	lo	152	ASP	N-CA-C	-5.53	106.31	113.16
1	lq	200	THR	CA-C-N	5.53	128.03	120.46
1	lq	200	THR	C-N-CA	5.53	128.03	120.46
1	ls	119	THR	CA-CB-OG1	5.53	117.89	109.60
1	lB	13	GLN	CA-C-N	5.53	129.62	120.94
1	lB	13	GLN	C-N-CA	5.53	129.62	120.94
1	lF	87	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	lG	157	PRO	CA-C-N	5.53	131.05	122.49
1	lG	157	PRO	C-N-CA	5.53	131.05	122.49
1	lQ	73	ILE	CB-CA-C	-5.53	104.68	112.14
1	2d	51	ASP	CA-C-N	5.53	127.62	120.44
1	2d	51	ASP	C-N-CA	5.53	127.62	120.44
1	2d	84	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	2w	170	LYS	CA-C-N	5.53	130.03	120.58
1	2w	170	LYS	C-N-CA	5.53	130.03	120.58
1	2F	41	SER	CA-C-O	5.53	126.41	120.55
1	2F	59	VAL	CB-CA-C	5.53	117.55	111.08
1	2F	93	PRO	N-CA-CB	-5.53	96.57	102.76
1	2K	6	LEU	CA-C-O	5.53	126.23	119.05
1	2T	105	ALA	CA-C-N	5.53	130.76	120.87
1	2T	105	ALA	C-N-CA	5.53	130.76	120.87
1	2W	55	MET	N-CA-C	5.53	117.30	111.28
1	2Y	112	GLN	O-C-N	-5.53	116.26	122.12
1	3b	20	LEU	N-CA-C	5.53	120.08	113.23
1	3v	21	ASN	CA-CB-CG	-5.53	107.07	112.60
1	3B	137	GLY	N-CA-C	5.53	119.36	112.73
1	3F	97	ARG	O-C-N	-5.53	116.34	122.86
1	3L	40	PHE	CA-C-N	5.53	127.62	120.44
1	3L	40	PHE	C-N-CA	5.53	127.62	120.44
1	3U	226	HIS	ND1-CE1-NE2	5.53	113.92	108.40
1	3X	154	ARG	O-C-N	-5.53	116.45	122.92
1	43	99	PRO	CA-C-O	-5.53	114.73	121.03
1	47	48	THR	O-C-N	-5.53	113.28	120.96
1	48	117	TRP	CE3-CZ3-CH2	-5.53	113.92	121.10
1	4e	46	GLY	O-C-N	-5.53	115.60	122.34
1	4k	163	ASP	O-C-N	-5.53	115.85	122.15
1	4o	139	ASN	CA-CB-CG	5.53	118.12	112.60
1	4B	117	TRP	N-CA-C	5.53	116.98	111.07
1	4O	194	ALA	N-CA-C	5.53	119.11	110.32
1	4V	135	ILE	N-CA-C	5.53	115.72	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	57	ASN	CA-CB-CG	-5.53	107.07	112.60
1	5X	96	MET	CA-C-O	-5.53	115.69	120.88
1	5X	222	GLY	CA-C-O	-5.53	117.25	122.39
1	6a	190	LEU	CA-C-N	5.53	128.26	120.42
1	6a	190	LEU	C-N-CA	5.53	128.26	120.42
1	6e	198	CYS	N-CA-C	5.53	117.30	111.28
1	6t	154	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	6y	200	THR	N-CA-C	5.53	116.98	111.07
1	6B	69	LEU	CA-C-O	5.53	126.62	120.82
1	6S	176	GLN	CA-C-N	5.53	129.09	120.75
1	6S	176	GLN	C-N-CA	5.53	129.09	120.75
1	7d	64	ALA	N-CA-CB	-5.53	101.97	110.20
1	7o	218	CYS	CA-C-N	5.53	129.73	121.72
1	7o	218	CYS	C-N-CA	5.53	129.73	121.72
1	7u	5	ASN	CA-C-N	5.53	127.69	120.28
1	7u	5	ASN	C-N-CA	5.53	127.69	120.28
1	7A	216	THR	CA-C-N	5.53	128.69	120.95
1	7A	216	THR	C-N-CA	5.53	128.69	120.95
1	7R	1	PRO	CA-C-N	5.53	129.39	122.43
1	7R	1	PRO	C-N-CA	5.53	129.39	122.43
1	7S	147	PRO	CA-C-N	5.53	129.20	121.02
1	7S	147	PRO	C-N-CA	5.53	129.20	121.02
1	8b	209	ALA	N-CA-C	5.53	118.24	110.23
1	8n	192	GLN	CB-CG-CD	5.53	121.99	112.60
1	8p	21	ASN	OD1-CG-ND2	5.53	128.13	122.60
1	8K	161	PHE	CB-CA-C	5.53	120.24	110.85
1	91	118	MET	O-C-N	-5.53	115.03	122.43
1	95	133	TRP	O-C-N	-5.53	116.12	122.09
1	9e	135	ILE	CA-C-N	5.53	127.69	120.28
1	9e	135	ILE	C-N-CA	5.53	127.69	120.28
1	9o	173	ARG	NE-CZ-NH1	5.53	127.03	121.50
1	9B	160	PRO	N-CD-CG	5.53	111.49	103.20
1	9D	214	MET	O-C-N	-5.53	116.26	122.12
1	9O	21	ASN	N-CA-CB	-5.53	102.00	110.12
1	Y	21	ASN	CA-CB-CG	5.53	118.12	112.60
1	9U	226	HIS	ND1-CE1-NE2	5.53	113.93	108.40
1	11	167	ARG	NE-CZ-NH2	-5.53	114.23	119.20
1	al	29	GLU	N-CA-C	5.53	121.04	113.97
1	av	129	ILE	CB-CA-C	-5.53	104.60	112.22
1	aA	60	GLY	CA-C-N	5.53	127.74	122.27
1	aA	60	GLY	C-N-CA	5.53	127.74	122.27
1	aT	158	LYS	CA-C-O	5.53	125.36	119.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b3	59	VAL	O-C-N	-5.53	116.66	122.68
1	bc	193	ASN	OD1-CG-ND2	-5.53	117.08	122.60
1	bu	180	GLU	CA-C-N	5.53	127.63	120.56
1	bu	180	GLU	C-N-CA	5.53	127.63	120.56
1	bz	34	PRO	CA-C-N	5.53	128.24	120.28
1	bz	34	PRO	C-N-CA	5.53	128.24	120.28
1	bF	141	ILE	N-CA-C	5.53	116.26	110.62
1	bG	6	LEU	N-CA-C	5.53	117.66	110.53
1	bJ	204	ALA	CB-CA-C	-5.53	102.20	110.88
1	bT	71	GLU	O-C-N	5.53	127.98	122.12
1	c0	113	GLU	O-C-N	5.53	127.76	122.07
1	c9	18	ARG	N-CA-C	5.53	118.02	111.33
1	cb	203	LYS	O-C-N	-5.53	116.38	122.07
1	cj	195	ASN	N-CA-CB	5.53	119.62	109.73
1	cl	177	ALA	CA-C-N	5.53	129.09	120.75
1	cl	177	ALA	C-N-CA	5.53	129.09	120.75
1	cm	65	ALA	N-CA-C	5.53	117.38	111.36
1	cn	114	GLN	N-CA-C	5.53	117.30	111.28
1	cq	71	GLU	N-CA-C	5.53	117.30	111.28
1	cr	91	ILE	O-C-N	-5.53	116.42	122.83
1	cs	14	ALA	O-C-N	-5.53	116.34	122.86
1	cB	49	PRO	N-CA-CB	-5.53	97.42	103.39
1	cN	127	GLY	CA-C-O	5.53	126.00	120.09
1	d3	57	ASN	N-CA-C	5.53	118.02	111.33
1	d3	193	ASN	N-CA-CB	-5.53	102.49	110.56
1	1i	88	ALA	O-C-N	-5.53	116.58	123.04
1	dg	122	PRO	CA-C-N	5.53	125.80	119.83
1	dg	122	PRO	C-N-CA	5.53	125.80	119.83
1	dp	23	TRP	CB-CA-C	5.53	119.56	110.88
1	dB	82	ARG	N-CA-C	5.53	118.02	111.33
1	dI	120	HIS	N-CA-C	5.53	117.86	110.35
1	dL	104	ILE	O-C-N	-5.53	116.51	121.87
1	dP	57	ASN	O-C-N	-5.53	116.26	122.12
1	dS	151	LEU	CA-C-O	-5.53	114.01	120.20
1	dX	24	VAL	CB-CA-C	5.53	119.28	112.04
1	e1	167	ARG	CA-C-N	5.53	127.62	120.44
1	e1	167	ARG	C-N-CA	5.53	127.62	120.44
1	e8	120	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
1	1p	130	TYR	CA-C-N	5.53	127.95	120.38
1	1p	130	TYR	C-N-CA	5.53	127.95	120.38
1	ep	16	SER	N-CA-C	5.53	117.62	109.50
1	eJ	9	GLN	O-C-N	-5.53	116.77	123.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eL	9	GLN	CA-C-N	5.53	132.09	121.54
1	eL	9	GLN	C-N-CA	5.53	132.09	121.54
1	eT	138	LEU	CA-C-N	5.53	128.45	120.38
1	eT	138	LEU	C-N-CA	5.53	128.45	120.38
1	f9	166	ASP	N-CA-CB	-5.53	102.00	110.12
1	1v	16	SER	CA-C-O	-5.53	115.23	119.32
1	fj	221	VAL	N-CA-C	5.53	116.83	109.37
1	1w	45	GLU	N-CA-C	5.53	118.19	109.96
1	fn	153	ILE	N-CA-CB	5.53	116.55	110.53
1	fD	169	TYR	O-C-N	-5.53	115.75	122.22
1	fK	116	GLY	CA-C-N	5.53	127.68	120.28
1	fK	116	GLY	C-N-CA	5.53	127.68	120.28
1	fQ	18	ARG	O-C-N	-5.53	115.21	122.39
1	fR	166	ASP	CA-CB-CG	5.53	118.12	112.60
1	fZ	67	GLN	CA-C-O	5.53	126.32	119.97
1	g4	25	LYS	N-CA-C	5.53	117.30	111.28
1	b	72	THR	N-CA-C	5.53	117.11	111.14
1	c	20	LEU	CA-C-N	5.53	127.68	120.28
1	c	20	LEU	C-N-CA	5.53	127.68	120.28
1	s	40	PHE	CA-C-N	5.53	127.68	120.28
1	s	40	PHE	C-N-CA	5.53	127.68	120.28
1	z	85	PRO	N-CD-CG	5.53	111.49	103.20
1	E	50	GLN	N-CA-C	5.53	118.02	111.33
1	L	166	ASP	N-CA-C	5.53	117.74	111.11
1	M	36	VAL	O-C-N	-5.53	116.51	121.87
1	4	27	VAL	N-CA-C	5.53	115.72	110.53
1	5	147	PRO	CA-N-CD	-5.53	104.27	112.00
1	gi	55	MET	CA-C-N	5.52	127.68	120.28
1	gi	55	MET	C-N-CA	5.52	127.68	120.28
1	gs	50	GLN	N-CA-C	5.52	116.98	111.07
1	gD	28	GLU	CG-CD-OE1	5.52	131.10	118.40
1	gL	161	PHE	CB-CG-CD1	-5.52	111.31	120.70
1	gQ	19	THR	CA-C-N	5.52	128.47	120.79
1	gQ	19	THR	C-N-CA	5.52	128.47	120.79
1	hb	98	GLU	CB-CA-C	5.52	116.81	108.86
1	hn	217	ALA	N-CA-C	5.52	118.24	110.23
1	hA	7	GLN	CB-CG-CD	5.52	121.99	112.60
1	hH	195	ASN	CA-C-O	-5.52	114.79	120.87
1	hZ	93	PRO	O-C-N	5.52	129.71	123.03
1	ij	91	ILE	N-CA-C	5.52	117.36	108.85
1	iu	157	PRO	N-CA-CB	-5.52	97.67	103.52
1	iy	42	ALA	N-CA-C	5.52	117.38	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	57	ASN	CA-C-O	-5.52	112.46	119.31
1	iK	37	ILE	CA-CB-CG1	5.52	119.79	110.40
1	j1	62	HIS	CA-CB-CG	-5.52	108.28	113.80
1	j1	195	ASN	O-C-N	5.52	125.91	121.38
1	jf	130	TYR	CA-C-N	5.52	127.68	120.28
1	jf	130	TYR	C-N-CA	5.52	127.68	120.28
1	jj	7	GLN	CA-C-N	-5.52	111.82	120.55
1	jj	7	GLN	C-N-CA	-5.52	111.82	120.55
1	jl	21	ASN	CA-C-O	-5.52	114.69	120.55
1	jm	18	ARG	N-CA-CB	5.52	118.34	110.06
1	jx	39	MET	CA-C-O	-5.52	115.02	120.82
1	kc	25	LYS	CA-C-N	5.52	128.26	120.42
1	kc	25	LYS	C-N-CA	5.52	128.26	120.42
1	kw	22	ALA	CA-C-N	5.52	127.62	120.44
1	kw	22	ALA	C-N-CA	5.52	127.62	120.44
1	kE	214	MET	O-C-N	-5.52	116.26	122.12
1	kR	223	GLY	O-C-N	-5.52	117.45	122.42
1	l9	123	PRO	N-CA-C	5.52	119.99	111.21
1	lo	170	LYS	CA-C-O	5.52	126.41	120.55
1	lp	50	GLN	O-C-N	-5.52	116.26	122.12
1	lB	197	ASP	CA-C-O	5.52	126.60	120.63
1	lH	135	ILE	CA-C-N	5.52	128.44	120.38
1	lH	135	ILE	C-N-CA	5.52	128.44	120.38
1	2J	133	TRP	O-C-N	-5.52	115.85	122.15
1	2Q	150	ILE	CA-CB-CG1	5.52	119.79	110.40
1	3k	63	GLN	CA-C-N	5.52	128.13	120.29
1	3k	63	GLN	C-N-CA	5.52	128.13	120.29
1	3F	113	GLU	O-C-N	-5.52	116.38	122.07
1	3O	72	THR	O-C-N	-5.52	115.05	122.23
1	3V	167	ARG	CA-C-N	5.52	127.62	120.44
1	3V	167	ARG	C-N-CA	5.52	127.62	120.44
1	4a	214	MET	O-C-N	5.52	127.83	122.09
1	4l	113	GLU	CA-C-O	5.52	126.81	120.90
1	4P	84	HIS	CA-CB-CG	5.52	119.32	113.80
1	4Z	120	HIS	CA-C-O	-5.52	114.97	121.16
1	50	16	SER	CA-C-N	5.52	125.62	119.32
1	50	16	SER	C-N-CA	5.52	125.62	119.32
1	5q	17	PRO	CA-C-N	5.52	128.13	120.29
1	5q	17	PRO	C-N-CA	5.52	128.13	120.29
1	5N	165	VAL	O-C-N	-5.52	116.51	121.87
1	6c	78	ALA	N-CA-C	5.52	117.30	111.28
1	6S	112	GLN	CB-CG-CD	5.52	121.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Y	121	ASN	O-C-N	-5.52	116.08	121.38
1	72	18	ARG	CA-C-N	5.52	127.62	120.44
1	72	18	ARG	C-N-CA	5.52	127.62	120.44
1	7q	172	LEU	CA-C-N	5.52	128.00	120.54
1	7q	172	LEU	C-N-CA	5.52	128.00	120.54
1	7x	170	LYS	CA-C-O	5.52	126.16	119.31
1	87	54	THR	N-CA-C	5.52	117.30	111.28
1	8O	162	ARG	N-CA-C	5.52	117.30	111.28
1	90	133	TRP	CA-C-O	5.52	126.34	120.10
1	91	56	LEU	N-CA-C	5.52	117.30	111.28
1	92	162	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	97	40	PHE	CA-C-O	-5.52	114.69	120.55
1	9z	198	CYS	O-C-N	-5.52	115.68	122.20
1	Z	48	THR	N-CA-CB	5.52	118.18	110.11
1	b1	187	GLU	CA-C-O	-5.52	114.56	120.42
1	b8	48	THR	CA-C-N	5.52	126.75	119.84
1	b8	48	THR	C-N-CA	5.52	126.75	119.84
1	bw	79	GLU	CA-C-N	5.52	127.68	120.28
1	bw	79	GLU	C-N-CA	5.52	127.68	120.28
1	bU	77	ALA	CA-C-O	5.52	126.41	120.55
1	cb	169	TYR	CA-C-N	5.52	127.68	120.28
1	cb	169	TYR	C-N-CA	5.52	127.68	120.28
1	ce	183	ASN	CA-C-N	5.52	128.00	120.54
1	ce	183	ASN	C-N-CA	5.52	128.00	120.54
1	cr	195	ASN	CA-C-N	5.52	124.98	119.24
1	cr	195	ASN	C-N-CA	5.52	124.98	119.24
1	cJ	106	GLY	O-C-N	-5.52	115.18	122.42
1	cV	100	ARG	N-CA-C	-5.52	102.00	109.95
1	d8	82	ARG	NE-CZ-NH2	5.52	124.17	119.20
1	dZ	134	ILE	N-CA-CB	5.52	118.05	110.54
1	ec	166	ASP	O-C-N	-5.52	116.38	122.07
1	1t	85	PRO	N-CA-CB	-5.52	98.20	103.34
1	fb	167	ARG	N-CA-C	5.52	117.38	111.36
1	fA	87	HIS	O-C-N	-5.52	116.08	122.87
1	fC	133	TRP	CD2-CE2-CZ2	-5.52	116.88	122.40
1	fK	33	SER	CA-C-N	5.52	126.74	119.84
1	fK	33	SER	C-N-CA	5.52	126.74	119.84
1	1z	182	LYS	CA-C-N	5.52	128.71	120.31
1	1z	182	LYS	C-N-CA	5.52	128.71	120.31
1	1A	27	VAL	CA-C-N	5.52	127.62	120.44
1	1A	27	VAL	C-N-CA	5.52	127.62	120.44
1	g5	175	GLU	CA-C-O	5.52	126.41	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	195	ASN	OD1-CG-ND2	5.52	128.12	122.60
1	v	63	GLN	CB-CA-C	-5.52	102.21	110.88
1	S	73	ILE	CA-CB-CG2	-5.52	101.11	110.50
1	gi	118	MET	O-C-N	-5.52	115.48	122.27
1	gl	228	ALA	N-CA-C	5.52	117.20	110.41
1	gp	175	GLU	N-CA-C	5.52	117.30	111.28
1	gu	7	GLN	N-CA-C	5.52	119.65	113.02
1	gu	12	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	gv	123	PRO	N-CA-CB	5.52	109.05	103.25
1	gv	183	ASN	N-CA-C	5.52	117.30	111.28
1	gA	195	ASN	CB-CG-OD1	5.52	131.84	120.80
1	gI	162	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	h4	2	ILE	N-CA-CB	5.52	118.86	111.90
1	hd	74	ASN	CA-C-N	5.52	127.99	120.54
1	hd	74	ASN	C-N-CA	5.52	127.99	120.54
1	hd	84	HIS	O-C-N	-5.52	114.44	121.29
1	hi	11	VAL	N-CA-C	5.52	116.71	108.54
1	hm	91	ILE	CA-C-N	5.52	128.06	120.39
1	hm	91	ILE	C-N-CA	5.52	128.06	120.39
1	ht	119	THR	O-C-N	5.52	129.99	122.37
1	hu	139	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	hw	44	SER	CA-C-O	5.52	126.11	119.43
1	hA	65	ALA	N-CA-CB	-5.52	102.00	110.12
1	hK	183	ASN	CB-CA-C	-5.52	101.62	110.79
1	hZ	173	ARG	CA-C-N	5.52	132.11	121.18
1	hZ	173	ARG	C-N-CA	5.52	132.11	121.18
1	i1	82	ARG	O-C-N	-5.52	116.27	122.12
1	i1	166	ASP	CA-CB-CG	5.52	118.12	112.60
1	i6	162	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	i7	188	THR	CA-C-O	5.52	122.92	119.55
1	i9	165	VAL	N-CA-C	5.52	115.72	110.42
1	ic	157	PRO	CA-C-O	5.52	127.75	119.74
1	id	49	PRO	N-CA-CB	5.52	109.17	103.15
1	is	105	ALA	N-CA-C	5.52	119.86	113.18
1	iv	183	ASN	CA-CB-CG	5.52	118.12	112.60
1	iC	169	TYR	CA-C-N	5.52	127.68	120.28
1	iC	169	TYR	C-N-CA	5.52	127.68	120.28
1	iM	100	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	iR	16	SER	N-CA-C	5.52	116.78	109.93
1	1S	5	ASN	N-CA-CB	-5.52	102.46	110.36
1	iY	54	THR	N-CA-CB	5.52	118.02	110.01
1	j2	153	ILE	CB-CA-C	-5.52	104.01	111.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	21	ASN	CA-CB-CG	5.52	118.12	112.60
1	jw	166	ASP	O-C-N	-5.52	115.85	122.15
1	jU	138	LEU	CA-C-N	5.52	127.68	120.28
1	jU	138	LEU	C-N-CA	5.52	127.68	120.28
1	k3	22	ALA	N-CA-C	5.52	117.30	111.28
1	k4	226	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	ke	195	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	21	214	MET	CA-C-O	5.52	126.31	119.79
1	ko	202	LEU	N-CA-C	5.52	117.30	111.28
1	ks	89	GLY	N-CA-C	5.52	123.61	112.34
1	kx	186	THR	N-CA-C	-5.52	105.26	111.28
1	kU	16	SER	CA-C-N	5.52	125.62	119.32
1	kU	16	SER	C-N-CA	5.52	125.62	119.32
1	l0	87	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	l4	100	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	l7	41	SER	CA-C-N	5.52	127.68	120.28
1	l7	41	SER	C-N-CA	5.52	127.68	120.28
1	l7	206	GLY	CA-C-N	5.52	125.04	119.19
1	l7	206	GLY	C-N-CA	5.52	125.04	119.19
1	la	84	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	lh	136	LEU	N-CA-C	5.52	116.98	111.07
1	27	86	VAL	CA-C-N	5.52	132.09	121.54
1	27	86	VAL	C-N-CA	5.52	132.09	121.54
1	li	105	ALA	N-CA-C	5.52	119.50	112.87
1	ll	79	GLU	O-C-N	-5.52	116.27	122.12
1	ll	100	ARG	CG-CD-NE	-5.52	99.85	112.00
1	lo	10	MET	CG-SD-CE	-5.52	88.75	100.90
1	lq	189	LEU	CA-C-N	5.52	127.62	120.44
1	lq	189	LEU	C-N-CA	5.52	127.62	120.44
1	lt	48	THR	CA-C-N	5.52	126.74	119.84
1	lt	48	THR	C-N-CA	5.52	126.74	119.84
1	lu	184	TRP	CA-CB-CG	5.52	124.09	113.60
1	lF	36	VAL	CA-CB-CG2	-5.52	101.01	110.40
1	lH	198	CYS	O-C-N	-5.52	116.27	122.12
1	lI	162	ARG	CA-C-N	5.52	128.13	120.29
1	lI	162	ARG	C-N-CA	5.52	128.13	120.29
1	2p	66	MET	N-CA-C	5.52	119.12	112.38
1	2v	33	SER	N-CA-C	-5.52	101.84	108.25
1	2D	7	GLN	CB-CG-CD	5.52	121.99	112.60
1	2G	179	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	2L	65	ALA	N-CA-C	5.52	118.01	111.33
1	2U	108	THR	CA-CB-OG1	5.52	117.88	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	81	ASP	O-C-N	-5.52	115.76	122.22
1	3v	139	ASN	CA-C-N	5.52	127.94	120.38
1	3v	139	ASN	C-N-CA	5.52	127.94	120.38
1	3w	192	GLN	N-CA-C	5.52	118.23	111.82
1	3y	120	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	3y	187	GLU	CA-C-O	-5.52	114.57	120.42
1	3z	174	ALA	CA-C-N	5.52	128.68	120.95
1	3z	174	ALA	C-N-CA	5.52	128.68	120.95
1	3B	41	SER	N-CA-C	5.52	117.30	111.28
1	3D	18	ARG	CB-CG-CD	5.52	124.00	111.30
1	3I	137	GLY	CA-C-O	5.52	126.96	121.00
1	43	79	GLU	CA-C-N	5.52	127.68	120.28
1	43	79	GLU	C-N-CA	5.52	127.68	120.28
1	4k	157	PRO	CB-CA-C	-5.52	103.60	112.21
1	4n	28	GLU	N-CA-C	5.52	116.98	111.07
1	4o	131	LYS	CA-C-N	5.52	128.00	120.54
1	4o	131	LYS	C-N-CA	5.52	128.00	120.54
1	4w	41	SER	CB-CA-C	-5.52	101.62	110.79
1	4I	112	GLN	CA-C-O	-5.52	114.70	120.55
1	4K	95	GLN	CA-C-N	5.52	129.19	121.24
1	4K	95	GLN	C-N-CA	5.52	129.19	121.24
1	4P	156	GLY	CA-C-N	5.52	126.74	119.84
1	4P	156	GLY	C-N-CA	5.52	126.74	119.84
1	56	125	PRO	N-CA-C	5.52	123.85	112.47
1	5g	48	THR	CA-C-N	5.52	125.18	119.05
1	5g	48	THR	C-N-CA	5.52	125.18	119.05
1	5x	72	THR	O-C-N	-5.52	116.27	122.12
1	5E	18	ARG	N-CA-CB	5.52	118.33	110.16
1	5I	214	MET	CA-C-O	5.52	126.40	120.55
1	5J	79	GLU	N-CA-C	5.52	117.30	111.28
1	5R	210	THR	O-C-N	-5.52	115.75	122.82
1	5X	214	MET	N-CA-C	5.52	117.30	111.28
1	69	217	ALA	O-C-N	-5.52	116.95	123.25
1	6f	10	MET	CG-SD-CE	-5.52	88.75	100.90
1	6i	18	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	6J	81	ASP	O-C-N	-5.52	116.27	122.12
1	6N	192	GLN	CA-C-O	5.52	125.65	119.41
1	7a	81	ASP	O-C-N	-5.52	116.27	122.12
1	7f	54	THR	O-C-N	-5.52	116.38	122.07
1	7l	102	SER	CA-C-N	5.52	127.62	120.44
1	7l	102	SER	C-N-CA	5.52	127.62	120.44
1	7x	203	LYS	N-CA-C	5.52	117.30	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7M	126	VAL	N-CA-C	5.52	117.99	111.09
1	7U	218	CYS	CA-C-N	5.52	127.95	120.38
1	7U	218	CYS	C-N-CA	5.52	127.95	120.38
1	82	142	VAL	N-CA-C	5.52	116.25	110.62
1	84	78	ALA	CB-CA-C	-5.52	102.17	110.90
1	85	117	TRP	CB-CG-CD1	-5.52	118.61	126.90
1	8j	163	ASP	CA-C-N	5.52	127.68	120.28
1	8j	163	ASP	C-N-CA	5.52	127.68	120.28
1	8m	14	ALA	CA-C-N	5.52	128.49	120.98
1	8m	14	ALA	C-N-CA	5.52	128.49	120.98
1	8n	90	PRO	CA-C-N	5.52	130.28	121.34
1	8n	90	PRO	C-N-CA	5.52	130.28	121.34
1	8o	169	TYR	N-CA-C	5.52	117.38	111.36
1	8Q	169	TYR	N-CA-C	5.52	117.38	111.36
1	95	26	VAL	O-C-N	-5.52	116.50	121.91
1	9d	16	SER	CA-C-N	5.52	126.74	119.84
1	9d	16	SER	C-N-CA	5.52	126.74	119.84
1	9i	72	THR	CA-C-O	-5.52	115.02	120.82
1	9j	200	THR	CA-C-N	5.52	127.52	120.56
1	9j	200	THR	C-N-CA	5.52	127.52	120.56
1	9m	89	GLY	CA-C-N	5.52	126.74	119.84
1	9m	89	GLY	C-N-CA	5.52	126.74	119.84
1	9n	2	ILE	N-CA-CB	5.52	117.30	111.00
1	9n	124	ILE	O-C-N	-5.52	117.89	121.37
1	9o	55	MET	N-CA-C	5.52	117.11	111.14
1	9p	218	CYS	CA-C-N	5.52	127.68	120.28
1	9p	218	CYS	C-N-CA	5.52	127.68	120.28
1	9v	74	ASN	CA-CB-CG	-5.52	107.08	112.60
1	9W	33	SER	CB-CA-C	5.52	118.53	109.97
1	a2	91	ILE	CB-CA-C	5.52	119.20	111.08
1	a4	55	MET	CA-C-N	5.52	127.62	120.44
1	a4	55	MET	C-N-CA	5.52	127.62	120.44
1	a6	141	ILE	CA-C-N	5.52	128.03	120.46
1	a6	141	ILE	C-N-CA	5.52	128.03	120.46
1	a8	179	GLN	CB-CG-CD	5.52	121.99	112.60
1	11	48	THR	CB-CA-C	5.52	118.15	109.37
1	an	87	HIS	ND1-CG-CD2	-5.52	100.58	106.10
1	ar	10	MET	CA-C-O	-5.52	114.86	120.71
1	az	42	ALA	N-CA-CB	-5.52	102.00	110.12
1	aA	187	GLU	O-C-N	-5.52	116.27	122.12
1	aW	192	GLN	N-CA-C	5.52	117.30	111.28
1	b0	208	ALA	N-CA-C	5.52	117.38	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b3	89	GLY	O-C-N	-5.52	116.25	121.77
1	16	67	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	ba	82	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	17	132	ARG	CA-C-N	5.52	127.68	120.28
1	17	132	ARG	C-N-CA	5.52	127.68	120.28
1	bx	104	ILE	CA-C-O	5.52	126.79	121.05
1	bA	185	MET	N-CA-C	5.52	116.98	111.07
1	bG	103	ASP	N-CA-CB	5.52	118.02	110.01
1	bM	125	PRO	O-C-N	-5.52	115.19	122.64
1	1b	36	VAL	CA-C-O	5.52	125.61	119.42
1	bZ	114	GLN	N-CA-C	5.52	116.98	111.07
1	c2	194	ALA	N-CA-C	5.52	117.45	110.33
1	ch	197	ASP	CA-C-O	5.52	126.32	119.97
1	ci	50	GLN	N-CA-C	5.52	117.38	111.36
1	cn	227	LYS	N-CA-C	5.52	118.45	110.28
1	ct	111	LEU	O-C-N	-5.52	116.27	122.12
1	cy	78	ALA	O-C-N	5.52	128.45	122.15
1	cy	115	ILE	CB-CA-C	-5.52	104.69	112.14
1	cF	127	GLY	CA-C-O	5.52	126.97	121.00
1	cV	14	ALA	CA-C-N	5.52	127.90	120.50
1	cV	14	ALA	C-N-CA	5.52	127.90	120.50
1	d0	172	LEU	N-CA-CB	-5.52	101.72	110.28
1	d4	198	CYS	CA-C-N	5.52	127.68	120.28
1	d4	198	CYS	C-N-CA	5.52	127.68	120.28
1	d8	125	PRO	CA-C-N	5.52	129.36	120.30
1	d8	125	PRO	C-N-CA	5.52	129.36	120.30
1	df	138	LEU	O-C-N	-5.52	116.27	122.12
1	dg	229	ARG	N-CA-CB	5.52	119.96	110.68
1	dr	81	ASP	CA-CB-CG	5.52	118.12	112.60
1	ds	210	THR	N-CA-CB	5.52	117.95	110.38
1	ds	230	VAL	O-C-N	-5.52	117.38	123.18
1	dv	77	ALA	CA-C-N	5.52	128.70	120.31
1	dv	77	ALA	C-N-CA	5.52	128.70	120.31
1	dA	69	LEU	CA-C-O	5.52	126.40	120.55
1	dL	208	ALA	O-C-N	-5.52	116.14	122.93
1	dO	107	THR	N-CA-CB	5.52	118.76	110.53
1	dR	219	GLN	O-C-N	-5.52	116.58	123.04
1	dW	229	ARG	CA-C-O	5.52	128.41	120.51
1	dZ	35	GLU	N-CA-CB	-5.52	102.32	110.49
1	dZ	207	PRO	N-CA-C	-5.52	106.34	113.57
1	e7	67	GLN	CA-C-N	5.52	128.13	120.29
1	e7	67	GLN	C-N-CA	5.52	128.13	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	175	GLU	O-C-N	-5.52	116.95	123.25
1	eJ	184	TRP	CA-C-N	5.52	127.62	120.44
1	eJ	184	TRP	C-N-CA	5.52	127.62	120.44
1	fm	92	GLU	O-C-N	5.52	125.68	121.65
1	fm	199	LYS	N-CA-C	5.52	117.74	111.11
1	fA	137	GLY	CA-C-N	5.52	127.95	120.44
1	fA	137	GLY	C-N-CA	5.52	127.95	120.44
1	fH	62	HIS	N-CA-C	5.52	118.96	111.17
1	fK	2	ILE	N-CA-CB	-5.52	104.69	110.82
1	fL	188	THR	CB-CA-C	-5.52	102.10	110.83
1	fV	58	THR	CA-C-N	5.52	127.90	120.50
1	fV	58	THR	C-N-CA	5.52	127.90	120.50
1	fY	187	GLU	N-CA-CB	5.52	118.08	110.07
1	g3	203	LYS	CA-C-N	5.52	127.68	120.28
1	g3	203	LYS	C-N-CA	5.52	127.68	120.28
1	b	179	GLN	CA-C-N	5.52	128.70	120.31
1	b	179	GLN	C-N-CA	5.52	128.70	120.31
1	c	18	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	g	198	CYS	CA-C-N	5.52	127.95	120.44
1	g	198	CYS	C-N-CA	5.52	127.95	120.44
1	o	214	MET	N-CA-C	5.52	117.30	111.28
1	p	86	VAL	CA-C-O	5.52	127.33	121.04
1	2	183	ASN	CA-CB-CG	5.52	118.12	112.60
1	w	179	GLN	O-C-N	-5.52	116.27	122.12
1	B	156	GLY	CA-C-O	-5.52	113.62	121.52
1	H	40	PHE	CA-C-O	-5.52	114.70	120.55
1	M	39	MET	N-CA-C	5.52	116.98	111.07
1	W	87	HIS	CA-C-O	5.52	126.47	120.95
1	gx	5	ASN	O-C-N	-5.52	116.86	123.27
1	gG	117	TRP	CE2-CD2-CE3	-5.52	113.28	118.80
1	gU	46	GLY	CA-C-N	5.52	128.60	120.82
1	gU	46	GLY	C-N-CA	5.52	128.60	120.82
1	h5	130	TYR	N-CA-CB	-5.52	101.80	110.30
1	hq	151	LEU	CA-C-O	5.52	126.16	119.31
1	hv	66	MET	CA-C-O	5.52	126.40	120.55
1	hw	7	GLN	O-C-N	-5.52	116.20	123.21
1	hC	189	LEU	N-CA-C	5.52	117.10	111.14
1	hF	75	GLU	N-CA-C	5.52	117.74	111.11
1	hJ	149	SER	O-C-N	-5.52	117.19	123.48
1	it	36	VAL	CA-CB-CG2	-5.52	101.02	110.40
1	jg	100	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	js	142	VAL	N-CA-C	5.52	115.72	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	13	GLN	CA-C-O	-5.52	113.97	120.60
1	jI	163	ASP	CA-C-N	5.52	127.62	120.44
1	jI	163	ASP	C-N-CA	5.52	127.62	120.44
1	jN	48	THR	CA-C-N	5.52	125.18	119.05
1	jN	48	THR	C-N-CA	5.52	125.18	119.05
1	jZ	158	LYS	N-CA-C	-5.52	105.90	113.30
1	k4	131	LYS	N-CA-CB	-5.52	101.71	109.94
1	kJ	183	ASN	CA-C-O	-5.52	114.57	120.42
1	lf	149	SER	N-CA-CB	5.52	118.12	110.17
1	li	149	SER	CA-C-N	5.52	128.31	120.53
1	li	149	SER	C-N-CA	5.52	128.31	120.53
1	lj	185	MET	CA-C-N	5.52	127.62	120.44
1	lj	185	MET	C-N-CA	5.52	127.62	120.44
1	ly	133	TRP	CB-CG-CD1	5.52	135.18	126.90
1	lM	162	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	2j	48	THR	CA-CB-OG1	5.52	117.88	109.60
1	2x	183	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	2F	155	GLN	CB-CA-C	5.52	118.51	109.90
1	2P	69	LEU	CA-C-N	5.52	128.13	120.29
1	2P	69	LEU	C-N-CA	5.52	128.13	120.29
1	3r	217	ALA	O-C-N	-5.52	116.50	122.79
1	3G	141	ILE	N-CA-CB	5.52	117.01	110.55
1	3H	97	ARG	N-CA-CB	5.52	119.82	110.49
1	42	41	SER	CB-CA-C	-5.52	101.63	110.79
1	4m	229	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	4I	160	PRO	CA-C-O	-5.52	115.25	121.43
1	53	80	TRP	CG-CD2-CE3	-5.52	128.38	133.90
1	5C	75	GLU	N-CA-C	5.52	118.22	111.82
1	5U	155	GLN	N-CA-CB	5.52	118.08	109.97
1	6p	116	GLY	N-CA-C	5.52	119.84	112.77
1	6r	59	VAL	CA-CB-CG2	-5.52	101.02	110.40
1	6r	148	THR	N-CA-CB	5.52	119.70	110.59
1	6t	200	THR	N-CA-CB	5.52	118.02	110.01
1	6F	110	THR	CA-C-N	5.52	127.94	120.38
1	6F	110	THR	C-N-CA	5.52	127.94	120.38
1	6Q	172	LEU	O-C-N	-5.52	116.27	122.12
1	7u	103	ASP	CA-C-N	5.52	128.31	120.53
1	7u	103	ASP	C-N-CA	5.52	128.31	120.53
1	7C	132	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	8g	168	PHE	CA-C-N	5.52	128.13	120.29
1	8g	168	PHE	C-N-CA	5.52	128.13	120.29
1	8i	132	ARG	NE-CZ-NH2	5.52	124.17	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	218	CYS	N-CA-C	5.52	119.32	112.58
1	9n	227	LYS	CA-C-N	5.52	128.94	121.05
1	9n	227	LYS	C-N-CA	5.52	128.94	121.05
1	9C	23	TRP	CB-CG-CD1	-5.52	118.62	126.90
1	ae	197	ASP	CA-C-N	5.52	127.68	120.28
1	ae	197	ASP	C-N-CA	5.52	127.68	120.28
1	as	226	HIS	CG-CD2-NE2	5.52	112.72	107.20
1	aA	20	LEU	CA-C-N	5.52	127.68	120.28
1	aA	20	LEU	C-N-CA	5.52	127.68	120.28
1	13	111	LEU	CA-C-O	5.52	126.62	120.82
1	15	192	GLN	N-CA-CB	-5.52	101.43	109.82
1	b2	153	ILE	O-C-N	-5.52	116.46	122.64
1	b8	78	ALA	CA-C-O	5.52	126.40	120.55
1	bl	44	SER	N-CA-C	-5.52	105.76	112.88
1	1a	18	ARG	CB-CG-CD	5.52	124.00	111.30
1	bM	147	PRO	CA-C-N	5.52	132.09	121.54
1	bM	147	PRO	C-N-CA	5.52	132.09	121.54
1	cZ	18	ARG	O-C-N	-5.52	115.86	122.15
1	do	192	GLN	N-CA-C	5.52	120.08	113.23
1	dz	78	ALA	N-CA-C	5.52	117.38	111.36
1	dA	52	LEU	O-C-N	-5.52	115.86	122.15
1	dL	108	THR	N-CA-CB	5.52	118.58	110.57
1	dL	187	GLU	CA-C-O	-5.52	113.88	120.56
1	eh	124	ILE	N-CA-CB	5.52	118.94	111.21
1	ej	225	GLY	CA-C-N	5.52	128.55	120.71
1	ej	225	GLY	C-N-CA	5.52	128.55	120.71
1	eH	180	GLU	CA-C-O	5.52	126.40	120.55
1	f3	72	THR	O-C-N	-5.52	115.76	122.22
1	fb	220	GLY	CA-C-O	5.52	124.47	118.95
1	fx	226	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	fA	206	GLY	CA-C-N	5.52	125.04	119.19
1	fA	206	GLY	C-N-CA	5.52	125.04	119.19
1	g4	200	THR	CA-C-O	5.52	126.17	119.38
1	b	136	LEU	N-CA-C	5.52	116.98	111.07
1	1	117	TRP	CA-C-N	5.52	128.70	120.31
1	1	117	TRP	C-N-CA	5.52	128.70	120.31
1	r	88	ALA	CA-C-O	-5.52	115.54	121.56
1	x	144	MET	CG-SD-CE	-5.52	88.75	100.90
1	F	129	ILE	CA-C-O	-5.52	115.67	121.41
1	g8	56	LEU	N-CA-C	5.52	116.98	111.07
1	g9	99	PRO	N-CD-CG	5.52	111.48	103.20
1	ga	163	ASP	CA-C-N	5.52	127.99	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	163	ASP	C-N-CA	5.52	127.99	120.54
1	gt	64	ALA	CA-C-N	5.52	128.46	120.79
1	gt	64	ALA	C-N-CA	5.52	128.46	120.79
1	gz	219	GLN	OE1-CD-NE2	5.52	128.12	122.60
1	gE	133	TRP	CB-CA-C	-5.52	102.22	110.88
1	gP	199	LYS	N-CA-C	5.52	116.98	111.07
1	gQ	63	GLN	CB-CG-CD	5.52	121.98	112.60
1	gZ	51	ASP	CA-C-N	5.52	127.61	120.44
1	gZ	51	ASP	C-N-CA	5.52	127.61	120.44
1	hd	167	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	hf	84	HIS	O-C-N	-5.52	116.30	121.32
1	ht	82	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	hu	107	THR	N-CA-C	5.52	117.38	111.36
1	hG	139	ASN	OD1-CG-ND2	5.52	128.12	122.60
1	hV	77	ALA	O-C-N	-5.52	116.39	122.07
1	i4	76	GLU	N-CA-C	5.52	118.22	111.82
1	i5	179	GLN	CA-C-N	5.52	128.70	120.31
1	i5	179	GLN	C-N-CA	5.52	128.70	120.31
1	i7	193	ASN	N-CA-C	-5.52	105.90	113.30
1	iM	89	GLY	CA-C-N	5.52	125.45	119.76
1	iM	89	GLY	C-N-CA	5.52	125.45	119.76
1	iO	56	LEU	O-C-N	-5.52	115.86	122.15
1	iP	163	ASP	CA-C-O	5.52	126.40	120.55
1	j4	167	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	jb	146	SER	N-CA-C	-5.52	102.82	109.72
1	jb	230	VAL	CA-C-N	5.52	131.63	121.70
1	jb	230	VAL	C-N-CA	5.52	131.63	121.70
1	jJ	87	HIS	O-C-N	-5.52	116.50	123.01
1	jK	150	ILE	N-CA-C	5.52	116.29	110.72
1	jT	169	TYR	O-C-N	-5.52	115.91	122.20
1	jU	159	GLU	CA-C-N	5.52	125.52	119.89
1	jU	159	GLU	C-N-CA	5.52	125.52	119.89
1	jX	37	ILE	CA-CB-CG2	5.52	119.88	110.50
1	ka	226	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	kf	63	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	25	74	ASN	N-CA-CB	5.52	118.23	110.12
1	l7	139	ASN	CA-CB-CG	5.52	118.12	112.60
1	26	225	GLY	O-C-N	-5.52	116.85	122.70
1	lm	22	ALA	CB-CA-C	-5.52	102.21	110.88
1	lw	120	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	lO	229	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	2e	167	ARG	NH1-CZ-NH2	-5.52	112.12	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	229	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	2w	140	LYS	O-C-N	5.52	127.75	122.07
1	2y	222	GLY	CA-C-O	-5.52	115.68	122.03
1	2E	79	GLU	N-CA-C	5.52	118.82	111.75
1	2F	136	LEU	N-CA-C	5.52	118.06	111.71
1	2H	62	HIS	N-CA-C	5.52	118.86	111.24
1	3b	214	MET	O-C-N	-5.52	115.48	122.27
1	3d	13	GLN	CB-CG-CD	5.52	121.98	112.60
1	3u	83	LEU	N-CA-C	5.52	116.97	111.07
1	3H	75	GLU	O-C-N	-5.52	116.39	122.07
1	3U	87	HIS	CG-CD2-NE2	5.52	112.72	107.20
1	3V	131	LYS	N-CA-CB	5.52	118.23	110.12
1	40	135	ILE	CA-C-O	-5.52	115.00	120.85
1	41	194	ALA	N-CA-C	5.52	117.86	110.35
1	48	104	ILE	CA-C-O	-5.52	114.51	120.47
1	4x	24	VAL	N-CA-CB	-5.52	101.21	110.65
1	4y	48	THR	CA-C-N	5.52	125.04	119.19
1	4y	48	THR	C-N-CA	5.52	125.04	119.19
1	4z	170	LYS	CA-C-N	5.52	128.13	120.29
1	4z	170	LYS	C-N-CA	5.52	128.13	120.29
1	4D	52	LEU	CA-C-N	5.52	127.99	120.54
1	4D	52	LEU	C-N-CA	5.52	127.99	120.54
1	4P	4	GLN	OE1-CD-NE2	5.52	128.12	122.60
1	4P	59	VAL	N-CA-C	5.52	116.82	109.37
1	4U	104	ILE	N-CA-C	5.52	116.25	110.62
1	4W	209	ALA	CA-C-N	5.52	129.08	120.75
1	4W	209	ALA	C-N-CA	5.52	129.08	120.75
1	51	114	GLN	N-CA-C	5.52	117.38	111.36
1	5o	134	ILE	CB-CA-C	5.52	119.84	112.22
1	5H	4	GLN	CG-CD-OE1	5.52	131.84	120.80
1	69	33	SER	N-CA-CB	-5.52	105.31	111.10
1	6f	19	THR	O-C-N	-5.52	115.05	122.23
1	6f	111	LEU	CA-C-N	5.52	127.68	120.28
1	6f	111	LEU	C-N-CA	5.52	127.68	120.28
1	6h	114	GLN	O-C-N	-5.52	116.39	122.07
1	6n	138	LEU	O-C-N	5.52	127.97	122.12
1	6t	29	GLU	CB-CG-CD	5.52	121.98	112.60
1	6B	201	ILE	O-C-N	-5.52	116.50	121.91
1	6I	126	VAL	N-CA-C	5.52	116.25	110.62
1	6N	162	ARG	N-CA-C	5.52	118.06	111.71
1	6P	167	ARG	NH1-CZ-NH2	-5.52	112.12	119.30
1	6R	97	ARG	O-C-N	-5.52	116.08	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	70	35	GLU	CB-CG-CD	-5.52	103.22	112.60
1	74	217	ALA	N-CA-C	5.52	118.92	110.20
1	77	191	VAL	O-C-N	-5.52	115.67	122.18
1	7c	70	LYS	N-CA-CB	5.52	118.16	109.94
1	7i	84	HIS	N-CA-C	5.52	117.93	108.82
1	7D	9	GLN	O-C-N	-5.52	116.54	123.27
1	82	23	TRP	O-C-N	5.52	127.75	122.07
1	8f	22	ALA	N-CA-C	5.52	118.06	111.71
1	8D	25	LYS	N-CA-C	5.52	117.73	111.11
1	8J	4	GLN	N-CA-C	5.52	122.56	110.80
1	8O	117	TRP	O-C-N	-5.52	116.27	122.12
1	97	76	GLU	N-CA-C	5.52	117.30	111.28
1	98	12	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	9f	80	TRP	O-C-N	5.52	128.44	122.15
1	9i	22	ALA	N-CA-CB	-5.52	101.99	110.16
1	9p	32	PHE	N-CA-CB	5.52	119.50	110.39
1	9u	184	TRP	N-CA-C	5.52	118.22	111.82
1	9E	70	LYS	CA-C-O	-5.52	115.02	120.82
1	9F	184	TRP	O-C-N	-5.52	115.86	122.15
1	9H	66	MET	CG-SD-CE	-5.52	88.76	100.90
1	9O	70	LYS	N-CA-CB	-5.52	102.01	110.01
1	9O	202	LEU	CA-C-O	5.52	126.15	119.31
1	9Y	17	PRO	N-CA-CB	-5.52	98.21	103.51
1	a3	56	LEU	N-CA-C	5.52	118.22	111.82
1	ab	82	ARG	NE-CZ-NH2	-5.52	114.23	119.20
1	ae	109	SER	O-C-N	-5.52	116.01	122.96
1	ag	107	THR	CA-CB-CG2	5.52	119.89	110.50
1	ai	120	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	ak	64	ALA	CA-C-N	5.52	127.62	120.44
1	ak	64	ALA	C-N-CA	5.52	127.62	120.44
1	13	6	LEU	O-C-N	-5.52	116.54	123.27
1	aG	28	GLU	CB-CA-C	5.52	119.64	110.81
1	14	25	LYS	N-CA-C	5.52	118.01	111.33
1	aR	7	GLN	OE1-CD-NE2	5.52	128.12	122.60
1	aV	36	VAL	N-CA-C	5.52	116.25	110.62
1	bq	109	SER	N-CA-C	-5.52	100.91	109.24
1	by	26	VAL	O-C-N	-5.52	116.52	121.87
1	bz	37	ILE	CB-CA-C	5.52	121.40	111.36
1	19	139	ASN	CA-C-N	5.52	128.13	120.29
1	19	139	ASN	C-N-CA	5.52	128.13	120.29
1	bC	28	GLU	O-C-N	-5.52	116.27	122.12
1	bC	175	GLU	O-C-N	-5.52	116.16	122.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bS	38	PRO	N-CA-CB	5.52	109.37	103.52
1	bS	51	ASP	O-C-N	-5.52	116.27	122.12
1	bV	135	ILE	N-CA-C	5.52	115.72	110.42
1	c4	219	GLN	O-C-N	-5.52	116.23	123.02
1	c7	221	VAL	CB-CA-C	-5.52	103.94	110.84
1	ce	40	PHE	CB-CA-C	5.52	119.95	110.79
1	cg	38	PRO	N-CA-CB	5.52	109.05	103.25
1	cp	199	LYS	CA-C-N	5.52	127.68	120.28
1	cp	199	LYS	C-N-CA	5.52	127.68	120.28
1	cy	107	THR	O-C-N	-5.52	116.29	122.03
1	cA	95	GLN	N-CA-C	5.52	118.69	110.14
1	dh	90	PRO	N-CA-C	5.52	123.84	112.47
1	dh	116	GLY	N-CA-C	5.52	119.35	112.73
1	dm	59	VAL	N-CA-CB	-5.52	104.83	110.62
1	dn	155	GLN	N-CA-C	5.52	117.41	108.41
1	dw	32	PHE	CA-CB-CG	-5.52	108.28	113.80
1	dD	120	HIS	N-CA-C	5.52	117.20	110.41
1	dJ	67	GLN	N-CA-C	5.52	118.22	111.82
1	dO	54	THR	CA-C-N	5.52	127.61	120.44
1	dO	54	THR	C-N-CA	5.52	127.61	120.44
1	dY	140	LYS	N-CA-C	5.52	116.98	111.07
1	e2	192	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	ei	215	MET	O-C-N	5.52	127.97	122.12
1	eo	18	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	eq	229	ARG	N-CA-CB	-5.52	101.42	110.42
1	eI	53	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	eI	146	SER	N-CA-C	5.52	116.65	109.64
1	eL	152	ASP	CA-C-N	5.52	127.89	120.50
1	eL	152	ASP	C-N-CA	5.52	127.89	120.50
1	eN	84	HIS	CA-CB-CG	-5.52	108.28	113.80
1	eS	151	LEU	O-C-N	5.52	130.25	122.41
1	eT	142	VAL	CB-CA-C	-5.52	104.90	111.97
1	eY	48	THR	CA-C-O	-5.52	114.96	120.64
1	1v	82	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	fj	85	PRO	N-CA-CB	-5.52	97.45	103.25
1	1w	118	MET	CA-C-O	5.52	126.34	120.10
1	fv	143	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	g2	195	ASN	CA-C-O	-5.52	114.43	120.17
1	g5	49	PRO	N-CA-C	5.52	121.97	113.75
1	1B	32	PHE	N-CA-C	5.52	122.56	110.80
1	b	221	VAL	CA-C-O	-5.52	114.70	120.27
1	j	173	ARG	NE-CZ-NH1	5.52	127.02	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	143	ARG	N-CA-C	5.52	117.10	111.14
1	t	44	SER	N-CA-C	5.52	119.64	113.02
1	v	14	ALA	CA-C-N	5.52	128.11	120.49
1	v	14	ALA	C-N-CA	5.52	128.11	120.49
1	N	90	PRO	O-C-N	-5.52	115.19	122.64
1	4	212	GLU	CA-C-O	-5.52	115.02	120.82
1	gc	150	ILE	O-C-N	-5.52	116.48	121.89
1	gn	94	GLY	CA-C-N	5.52	128.67	120.95
1	gn	94	GLY	C-N-CA	5.52	128.67	120.95
1	go	120	HIS	CB-CG-ND1	5.52	130.98	122.70
1	gr	187	GLU	CA-C-O	5.52	126.15	119.31
1	gv	43	LEU	CA-C-N	5.52	131.35	122.14
1	gv	43	LEU	C-N-CA	5.52	131.35	122.14
1	gy	113	GLU	N-CA-C	5.52	117.29	111.28
1	gE	219	GLN	CA-C-N	5.52	126.11	119.98
1	gE	219	GLN	C-N-CA	5.52	126.11	119.98
1	gL	198	CYS	N-CA-C	-5.52	106.39	114.39
1	gP	179	GLN	N-CA-C	5.52	118.22	111.82
1	gX	148	THR	CA-CB-OG1	5.52	117.88	109.60
1	1I	146	SER	CA-C-O	-5.52	112.60	120.16
1	hh	50	GLN	O-C-N	-5.52	115.48	122.27
1	hm	37	ILE	O-C-N	5.52	123.95	120.42
1	ho	111	LEU	CB-CA-C	5.52	119.54	110.88
1	hp	134	ILE	O-C-N	5.52	127.32	121.91
1	1K	22	ALA	CA-C-N	5.52	127.67	120.28
1	1K	22	ALA	C-N-CA	5.52	127.67	120.28
1	hG	143	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	1P	155	GLN	N-CA-CB	-5.52	101.95	110.56
1	iz	161	PHE	N-CA-C	-5.52	105.18	111.14
1	iF	131	LYS	CA-C-N	5.52	127.67	120.28
1	iF	131	LYS	C-N-CA	5.52	127.67	120.28
1	1S	40	PHE	O-C-N	-5.52	115.77	122.22
1	iY	111	LEU	CA-C-O	5.52	126.61	120.82
1	iZ	58	THR	N-CA-C	5.52	118.06	111.71
1	j1	185	MET	CA-C-N	5.52	127.67	120.28
1	j1	185	MET	C-N-CA	5.52	127.67	120.28
1	j1	201	ILE	CB-CA-C	-5.52	104.69	112.14
1	j8	16	SER	O-C-N	-5.52	115.57	121.42
1	jw	168	PHE	N-CA-CB	-5.52	102.01	110.12
1	jz	12	HIS	ND1-CE1-NE2	5.52	113.92	108.40
1	jB	21	ASN	CA-CB-CG	5.52	118.12	112.60
1	1Y	110	THR	CA-CB-OG1	5.52	117.88	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jY	2	ILE	CA-CB-CG1	5.52	119.78	110.40
1	kb	33	SER	CA-C-N	5.52	125.61	119.87
1	kb	33	SER	C-N-CA	5.52	125.61	119.87
1	ke	164	TYR	N-CA-CB	-5.52	102.01	110.01
1	kv	100	ARG	CD-NE-CZ	5.52	132.13	124.40
1	kz	5	ASN	N-CA-C	-5.52	105.16	112.94
1	kA	132	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	kD	220	GLY	O-C-N	-5.52	116.89	122.19
1	kE	59	VAL	CB-CA-C	5.52	117.53	111.08
1	kE	199	LYS	CB-CA-C	-5.52	101.63	110.79
1	kP	91	ILE	CB-CA-C	-5.52	104.76	111.88
1	kS	16	SER	CB-CA-C	5.52	115.63	110.17
1	kW	62	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	kX	176	GLN	O-C-N	-5.52	115.69	122.20
1	l8	100	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	lf	117	TRP	CD2-CE2-CZ2	-5.52	116.88	122.40
1	lg	144	MET	N-CA-C	5.52	116.97	111.07
1	lq	67	GLN	CA-C-O	-5.52	113.63	119.97
1	lC	193	ASN	CA-CB-CG	-5.52	107.08	112.60
1	2g	87	HIS	CB-CA-C	5.52	118.51	109.90
1	2i	52	LEU	CA-C-O	5.52	126.27	120.42
1	2k	68	MET	N-CA-C	5.52	117.37	111.36
1	2I	175	GLU	N-CA-C	5.52	117.86	110.35
1	2J	170	LYS	CA-C-N	5.52	127.99	120.54
1	2J	170	LYS	C-N-CA	5.52	127.99	120.54
1	2J	195	ASN	O-C-N	-5.52	115.46	121.53
1	2L	9	GLN	CA-C-N	5.52	128.94	121.05
1	2L	9	GLN	C-N-CA	5.52	128.94	121.05
1	2O	139	ASN	CB-CA-C	-5.52	101.63	110.79
1	2W	99	PRO	CB-CA-C	5.52	118.63	110.85
1	2Y	148	THR	CA-C-N	5.52	129.19	121.02
1	2Y	148	THR	C-N-CA	5.52	129.19	121.02
1	3d	130	TYR	O-C-N	-5.52	116.27	122.12
1	3g	132	ARG	CA-C-O	-5.52	114.70	120.55
1	3i	190	LEU	N-CA-C	5.52	118.01	111.33
1	3k	133	TRP	CA-CB-CG	5.52	124.08	113.60
1	3t	74	ASN	N-CA-C	5.52	117.29	111.28
1	3z	200	THR	CA-CB-CG2	5.52	119.88	110.50
1	3I	105	ALA	CA-C-N	5.52	132.04	122.05
1	3I	105	ALA	C-N-CA	5.52	132.04	122.05
1	3N	212	GLU	CA-C-O	5.52	126.59	120.63
1	3P	129	ILE	N-CA-C	-5.52	105.34	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	224	PRO	CB-CA-C	5.52	118.65	111.64
1	3U	24	VAL	N-CA-C	5.52	116.91	110.62
1	3Y	77	ALA	N-CA-C	5.52	117.29	111.28
1	44	100	ARG	CA-C-N	5.52	126.21	120.03
1	44	100	ARG	C-N-CA	5.52	126.21	120.03
1	4n	62	HIS	N-CA-C	5.52	119.19	111.74
1	4x	172	LEU	O-C-N	5.52	127.75	122.07
1	4K	110	THR	CA-CB-OG1	5.52	117.88	109.60
1	54	107	THR	OG1-CB-CG2	-5.52	98.26	109.30
1	57	84	HIS	CG-CD2-NE2	5.52	112.72	107.20
1	5b	77	ALA	O-C-N	-5.52	115.86	122.15
1	5A	44	SER	CA-C-O	5.52	126.11	119.43
1	5B	50	GLN	CG-CD-NE2	5.52	124.68	116.40
1	5C	15	ILE	N-CA-C	5.52	117.58	109.63
1	5C	179	GLN	N-CA-C	5.52	118.00	111.33
1	5H	116	GLY	N-CA-C	5.52	119.35	112.73
1	5I	75	GLU	CA-C-N	5.52	128.12	120.29
1	5I	75	GLU	C-N-CA	5.52	128.12	120.29
1	5O	91	ILE	CA-CB-CG1	5.52	119.78	110.40
1	5Z	4	GLN	OE1-CD-NE2	5.52	128.12	122.60
1	5Z	174	ALA	N-CA-C	5.52	117.37	111.36
1	6q	203	LYS	CA-CB-CG	5.52	125.14	114.10
1	6w	218	CYS	CB-CA-C	-5.52	104.47	111.86
1	6z	119	THR	N-CA-C	-5.52	105.86	112.59
1	6D	48	THR	O-C-N	-5.52	115.75	121.60
1	6G	142	VAL	CA-C-O	-5.52	115.53	121.27
1	71	152	ASP	O-C-N	-5.52	114.75	122.37
1	72	211	LEU	CB-CA-C	5.52	120.23	110.85
1	7e	38	PRO	CA-C-N	5.52	127.93	120.65
1	7e	38	PRO	C-N-CA	5.52	127.93	120.65
1	7m	139	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	7u	96	MET	N-CA-C	5.52	117.81	110.53
1	7D	22	ALA	N-CA-C	5.52	117.29	111.28
1	7H	13	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	7P	176	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	7S	75	GLU	N-CA-C	5.52	117.29	111.28
1	7U	137	GLY	N-CA-C	5.52	119.35	112.73
1	7V	201	ILE	CA-C-O	5.52	126.70	120.85
1	8g	52	LEU	CA-C-N	5.52	127.67	120.28
1	8g	52	LEU	C-N-CA	5.52	127.67	120.28
1	8r	169	TYR	CA-C-N	5.52	127.61	120.44
1	8r	169	TYR	C-N-CA	5.52	127.61	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	86	VAL	N-CA-CB	5.52	117.52	110.13
1	8v	37	ILE	O-C-N	-5.52	114.81	121.10
1	8x	169	TYR	CA-C-O	-5.52	114.57	120.42
1	8L	5	ASN	O-C-N	-5.52	114.81	122.76
1	95	173	ARG	O-C-N	-5.52	116.35	122.09
1	97	12	HIS	CB-CA-C	-5.52	102.22	110.16
1	98	173	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	9c	146	SER	CA-C-N	5.52	125.04	119.19
1	9c	146	SER	C-N-CA	5.52	125.04	119.19
1	9d	183	ASN	CA-C-O	5.52	126.61	120.82
1	9f	97	ARG	CA-C-N	5.52	128.15	120.65
1	9f	97	ARG	C-N-CA	5.52	128.15	120.65
1	9p	12	HIS	CE1-NE2-CD2	-5.52	103.48	109.00
1	9t	59	VAL	N-CA-CB	5.52	116.94	110.82
1	9y	102	SER	N-CA-CB	-5.52	102.01	110.12
1	9G	119	THR	CA-C-N	5.52	132.08	121.54
1	9G	119	THR	C-N-CA	5.52	132.08	121.54
1	Y	37	ILE	CA-C-N	5.52	124.86	118.85
1	Y	37	ILE	C-N-CA	5.52	124.86	118.85
1	9R	180	GLU	CA-C-O	5.52	126.61	120.82
1	9T	23	TRP	CB-CG-CD1	-5.52	118.62	126.90
1	9Y	126	VAL	CA-C-N	5.52	126.11	119.98
1	9Y	126	VAL	C-N-CA	5.52	126.11	119.98
1	aa	168	PHE	O-C-N	-5.52	116.27	122.12
1	ai	9	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	al	112	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	am	119	THR	CA-CB-OG1	5.52	117.88	109.60
1	ao	110	THR	CA-CB-OG1	5.52	117.88	109.60
1	ap	73	ILE	N-CA-C	5.52	116.25	110.62
1	aD	215	MET	O-C-N	-5.52	115.86	122.15
1	aG	115	ILE	CA-C-O	-5.52	115.21	120.95
1	aM	50	GLN	CB-CA-C	-5.52	101.63	110.79
1	aR	116	GLY	CA-C-N	5.52	127.61	120.44
1	aR	116	GLY	C-N-CA	5.52	127.61	120.44
1	aW	139	ASN	CA-CB-CG	-5.52	107.08	112.60
1	aW	155	GLN	O-C-N	-5.52	116.44	123.06
1	b1	65	ALA	CA-C-N	5.52	127.61	120.44
1	b1	65	ALA	C-N-CA	5.52	127.61	120.44
1	b1	148	THR	CA-CB-OG1	5.52	117.88	109.60
1	16	4	GLN	CA-C-O	5.52	126.28	120.54
1	16	36	VAL	CA-CB-CG2	5.52	119.78	110.40
1	b8	58	THR	CA-CB-OG1	5.52	117.88	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	128	GLU	CA-C-N	5.52	127.62	120.56
1	ba	128	GLU	C-N-CA	5.52	127.62	120.56
1	bf	6	LEU	CA-C-N	5.52	130.56	122.39
1	bf	6	LEU	C-N-CA	5.52	130.56	122.39
1	bh	182	LYS	N-CA-C	5.52	117.29	111.28
1	bj	36	VAL	N-CA-CB	5.52	117.00	110.55
1	bj	176	GLN	CA-C-O	5.52	125.81	119.35
1	bx	95	GLN	CG-CD-NE2	-5.52	108.12	116.40
1	bz	223	GLY	O-C-N	-5.52	116.25	121.77
1	bI	54	THR	CA-C-N	5.52	127.99	120.54
1	bI	54	THR	C-N-CA	5.52	127.99	120.54
1	c3	51	ASP	CA-C-N	5.52	127.99	120.54
1	c3	51	ASP	C-N-CA	5.52	127.99	120.54
1	c5	4	GLN	CB-CG-CD	-5.52	103.22	112.60
1	1c	90	PRO	N-CA-CB	5.52	109.04	103.25
1	c9	119	THR	CA-C-O	5.52	124.97	118.90
1	cb	211	LEU	O-C-N	5.52	127.97	122.12
1	ce	9	GLN	CA-C-O	-5.52	114.57	120.92
1	ce	149	SER	O-C-N	-5.52	115.25	122.59
1	ch	140	LYS	CA-C-O	5.52	126.33	120.10
1	cp	127	GLY	CA-C-N	5.52	127.61	120.44
1	cp	127	GLY	C-N-CA	5.52	127.61	120.44
1	ct	96	MET	N-CA-C	5.52	117.22	108.67
1	d6	117	TRP	CD2-CE2-CZ2	-5.52	116.88	122.40
1	dw	171	THR	CB-CA-C	5.52	119.54	110.88
1	dB	38	PRO	N-CA-CB	5.52	109.04	103.25
1	dK	4	GLN	N-CA-C	-5.52	105.85	112.58
1	es	129	ILE	N-CA-C	5.52	115.72	110.42
1	eE	130	TYR	N-CA-C	5.52	117.30	111.28
1	1s	48	THR	CA-C-N	5.52	126.74	119.84
1	1s	48	THR	C-N-CA	5.52	126.74	119.84
1	eI	228	ALA	CB-CA-C	5.52	119.69	109.54
1	eN	40	PHE	CA-CB-CG	-5.52	108.28	113.80
1	eX	151	LEU	N-CA-C	5.52	118.05	111.71
1	eY	161	PHE	N-CA-CB	5.52	118.23	110.12
1	f1	177	ALA	CA-C-N	5.52	129.60	120.94
1	f1	177	ALA	C-N-CA	5.52	129.60	120.94
1	f3	126	VAL	O-C-N	-5.52	115.67	122.57
1	1v	175	GLU	CA-C-N	5.52	130.78	123.00
1	1v	175	GLU	C-N-CA	5.52	130.78	123.00
1	fn	201	ILE	N-CA-CB	5.52	118.86	110.58
1	fv	100	ARG	N-CA-C	-5.52	103.41	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fJ	205	LEU	CA-C-N	5.52	130.53	121.87
1	fJ	205	LEU	C-N-CA	5.52	130.53	121.87
1	fR	117	TRP	CA-C-N	5.52	128.12	120.29
1	fR	117	TRP	C-N-CA	5.52	128.12	120.29
1	fU	53	ASN	CA-C-N	5.52	127.67	120.28
1	fU	53	ASN	C-N-CA	5.52	127.67	120.28
1	1A	192	GLN	CA-C-O	5.52	126.27	120.42
1	g	99	PRO	CA-C-N	5.52	129.60	120.94
1	g	99	PRO	C-N-CA	5.52	129.60	120.94
1	n	214	MET	N-CA-C	5.52	117.29	111.28
1	s	197	ASP	CA-C-N	5.52	128.12	120.29
1	s	197	ASP	C-N-CA	5.52	128.12	120.29
1	u	130	TYR	CB-CG-CD1	-5.52	112.52	120.80
1	3	226	HIS	CG-CD2-NE2	5.52	112.72	107.20
1	8	11	VAL	CA-C-O	5.52	127.09	121.63
1	gb	21	ASN	OD1-CG-ND2	-5.52	117.08	122.60
1	h1	75	GLU	CB-CA-C	5.52	119.54	110.88
1	ht	70	LYS	CA-C-O	5.52	126.40	120.55
1	ht	198	CYS	N-CA-C	5.52	117.29	111.28
1	hx	133	TRP	N-CA-C	5.52	116.97	111.07
1	hV	85	PRO	N-CA-C	-5.52	106.51	114.18
1	ic	168	PHE	CB-CA-C	5.52	119.54	110.88
1	ik	189	LEU	N-CA-CB	5.52	118.72	110.22
1	io	180	GLU	CA-C-N	5.52	127.51	120.56
1	io	180	GLU	C-N-CA	5.52	127.51	120.56
1	iy	182	LYS	O-C-N	-5.52	116.27	122.12
1	iz	193	ASN	N-CA-C	-5.52	106.40	113.02
1	iL	138	LEU	CA-C-N	5.52	127.61	120.44
1	iL	138	LEU	C-N-CA	5.52	127.61	120.44
1	iL	229	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
1	ja	138	LEU	O-C-N	-5.52	116.27	122.12
1	jj	187	GLU	N-CA-CB	-5.52	101.17	110.49
1	jn	50	GLN	N-CA-C	5.52	117.29	111.28
1	jM	50	GLN	OE1-CD-NE2	-5.52	117.08	122.60
1	kf	36	VAL	N-CA-CB	5.52	117.00	110.55
1	ki	64	ALA	CA-C-N	5.52	127.67	120.28
1	ki	64	ALA	C-N-CA	5.52	127.67	120.28
1	kl	18	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
1	l1	135	ILE	N-CA-C	5.52	115.72	110.42
1	26	103	ASP	O-C-N	5.52	127.97	122.12
1	lk	211	LEU	CA-C-N	5.52	127.61	120.44
1	lk	211	LEU	C-N-CA	5.52	127.61	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lv	15	ILE	CA-C-N	5.52	128.06	120.39
1	lv	15	ILE	C-N-CA	5.52	128.06	120.39
1	2a	11	VAL	N-CA-C	5.52	116.06	108.12
1	lO	102	SER	CA-C-N	5.52	127.67	120.28
1	lO	102	SER	C-N-CA	5.52	127.67	120.28
1	2q	213	GLU	N-CA-C	5.52	116.97	111.07
1	2H	144	MET	N-CA-C	5.52	118.00	111.33
1	2K	95	GLN	CA-C-N	5.52	128.54	120.71
1	2K	95	GLN	C-N-CA	5.52	128.54	120.71
1	2L	87	HIS	CA-CB-CG	5.52	119.32	113.80
1	2U	41	SER	CA-C-N	5.52	127.67	120.28
1	2U	41	SER	C-N-CA	5.52	127.67	120.28
1	2U	166	ASP	CA-CB-CG	5.52	118.12	112.60
1	3n	210	THR	N-CA-CB	5.52	118.83	110.45
1	3I	12	HIS	CA-C-O	-5.52	114.76	121.05
1	3Y	12	HIS	N-CA-CB	5.52	118.08	109.97
1	4k	52	LEU	O-C-N	-5.52	116.27	122.12
1	4p	92	GLU	O-C-N	-5.52	114.98	121.32
1	4y	93	PRO	N-CA-CB	5.52	109.04	103.25
1	4F	3	VAL	CA-CB-CG1	5.52	119.78	110.40
1	4U	43	LEU	N-CA-C	5.52	117.29	111.28
1	5b	58	THR	CB-CA-C	-5.52	101.63	110.79
1	5u	120	HIS	ND1-CG-CD2	-5.52	100.58	106.10
1	6K	18	ARG	NE-CZ-NH1	5.52	127.02	121.50
1	6R	79	GLU	CA-C-O	5.52	126.27	120.42
1	6S	119	THR	N-CA-C	-5.52	105.91	113.30
1	6W	76	GLU	O-C-N	-5.52	115.86	122.15
1	70	39	MET	O-C-N	-5.52	115.86	122.15
1	7t	64	ALA	CA-C-N	5.52	128.12	120.29
1	7t	64	ALA	C-N-CA	5.52	128.12	120.29
1	7A	18	ARG	CB-CA-C	-5.52	101.63	110.79
1	7A	138	LEU	CA-C-N	5.52	127.61	120.44
1	7A	138	LEU	C-N-CA	5.52	127.61	120.44
1	7B	130	TYR	CA-C-N	5.52	127.94	120.38
1	7B	130	TYR	C-N-CA	5.52	127.94	120.38
1	7E	48	THR	O-C-N	-5.52	115.75	121.60
1	7F	51	ASP	CA-C-N	5.52	128.12	120.29
1	7F	51	ASP	C-N-CA	5.52	128.12	120.29
1	7O	83	LEU	CA-C-O	-5.52	113.87	120.10
1	88	200	THR	O-C-N	-5.52	116.27	122.12
1	8Z	84	HIS	CG-CD2-NE2	5.52	112.72	107.20
1	9u	17	PRO	N-CA-CB	-5.52	97.67	103.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9T	10	MET	N-CA-C	5.52	118.44	110.28
1	aa	229	ARG	N-CA-C	5.52	117.89	108.90
1	ap	77	ALA	O-C-N	-5.52	116.27	122.12
1	aN	214	MET	N-CA-CB	5.52	118.23	110.12
1	aX	8	GLY	CA-C-N	5.52	132.32	122.06
1	aX	8	GLY	C-N-CA	5.52	132.32	122.06
1	b7	201	ILE	CA-C-N	5.52	127.61	120.44
1	b7	201	ILE	C-N-CA	5.52	127.61	120.44
1	b9	185	MET	CG-SD-CE	-5.52	88.77	100.90
1	bd	31	ALA	N-CA-C	5.52	117.88	108.67
1	bd	161	PHE	CB-CA-C	5.52	121.40	110.42
1	bp	93	PRO	N-CA-C	5.52	119.86	111.15
1	br	201	ILE	N-CA-C	5.52	115.72	110.42
1	bu	41	SER	CA-C-N	5.52	127.61	120.44
1	bu	41	SER	C-N-CA	5.52	127.61	120.44
1	bE	168	PHE	CB-CG-CD2	-5.52	111.32	120.70
1	1b	112	GLN	CA-C-N	5.52	127.61	120.44
1	1b	112	GLN	C-N-CA	5.52	127.61	120.44
1	c5	82	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
1	cx	183	ASN	CA-CB-CG	-5.52	107.08	112.60
1	db	137	GLY	CA-C-N	5.52	127.61	120.44
1	db	137	GLY	C-N-CA	5.52	127.61	120.44
1	di	115	ILE	CA-C-O	5.52	126.43	120.47
1	dl	72	THR	CB-CA-C	-5.52	102.22	110.88
1	dl	195	ASN	CB-CA-C	5.52	118.23	109.52
1	dq	16	SER	O-C-N	-5.52	117.17	121.47
1	ds	137	GLY	CA-C-N	5.52	128.12	120.29
1	ds	137	GLY	C-N-CA	5.52	128.12	120.29
1	dZ	167	ARG	O-C-N	-5.52	114.94	122.33
1	1q	110	THR	O-C-N	-5.52	116.44	122.84
1	em	82	ARG	N-CA-C	5.52	118.22	111.82
1	eK	215	MET	O-C-N	5.52	127.97	122.12
1	eW	104	ILE	CA-C-O	5.52	126.47	120.57
1	fl	54	THR	OG1-CB-CG2	-5.52	98.27	109.30
1	ft	209	ALA	O-C-N	-5.52	116.73	122.96
1	1x	12	HIS	N-CA-CB	5.52	119.44	110.17
1	fC	91	ILE	CA-C-O	5.52	127.67	121.11
1	fG	41	SER	CA-C-N	5.52	127.67	120.28
1	fG	41	SER	C-N-CA	5.52	127.67	120.28
1	g9	186	THR	CA-C-O	-5.51	114.71	120.55
1	gi	55	MET	CG-SD-CE	-5.51	88.77	100.90
1	gi	73	ILE	CA-C-N	5.51	127.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	73	ILE	C-N-CA	5.51	127.67	120.28
1	go	37	ILE	CA-C-N	5.51	125.87	119.47
1	go	37	ILE	C-N-CA	5.51	125.87	119.47
1	gp	216	THR	O-C-N	-5.51	115.49	122.27
1	gI	179	GLN	N-CA-C	5.51	120.47	111.37
1	gS	173	ARG	N-CA-C	5.51	118.81	111.75
1	h9	4	GLN	CB-CA-C	5.51	118.88	111.82
1	hb	153	ILE	N-CA-CB	5.51	117.33	110.05
1	hd	142	VAL	CA-C-N	5.51	127.61	120.44
1	hd	142	VAL	C-N-CA	5.51	127.61	120.44
1	hi	76	GLU	N-CA-C	5.51	116.97	111.07
1	hr	38	PRO	CA-C-O	-5.51	111.26	119.86
1	ht	141	ILE	CA-CB-CG2	-5.51	101.12	110.50
1	hu	7	GLN	O-C-N	-5.51	115.25	122.59
1	hy	219	GLN	OE1-CD-NE2	5.51	128.12	122.60
1	hA	3	VAL	CA-C-O	5.51	127.64	120.69
1	hA	45	GLU	N-CA-C	5.51	118.57	110.30
1	hI	91	ILE	CA-C-O	-5.51	115.91	121.59
1	hN	39	MET	O-C-N	-5.51	116.39	122.07
1	hN	146	SER	O-C-N	-5.51	116.43	122.06
1	hQ	59	VAL	O-C-N	-5.51	116.78	122.63
1	hQ	119	THR	CA-C-N	5.51	129.08	120.75
1	hQ	119	THR	C-N-CA	5.51	129.08	120.75
1	hT	71	GLU	N-CA-C	5.51	117.29	111.28
1	hV	119	THR	CA-CB-CG2	5.51	119.87	110.50
1	i6	152	ASP	N-CA-C	-5.51	106.22	113.17
1	ir	195	ASN	CA-CB-CG	5.51	118.11	112.60
1	iu	133	TRP	CB-CG-CD1	5.51	135.17	126.90
1	iC	198	CYS	O-C-N	-5.51	115.86	122.15
1	iE	138	LEU	O-C-N	-5.51	116.28	122.12
1	iK	228	ALA	CA-C-N	5.51	132.02	122.64
1	iK	228	ALA	C-N-CA	5.51	132.02	122.64
1	iU	141	ILE	CB-CA-C	5.51	119.25	112.02
1	iV	119	THR	CA-CB-OG1	5.51	117.87	109.60
1	iW	99	PRO	CA-C-N	5.51	132.90	121.32
1	iW	99	PRO	C-N-CA	5.51	132.90	121.32
1	j0	54	THR	O-C-N	-5.51	116.28	122.12
1	je	6	LEU	CA-C-O	5.51	127.52	120.57
1	je	116	GLY	N-CA-C	5.51	119.31	112.64
1	jf	126	VAL	CA-C-N	5.51	126.06	120.00
1	jf	126	VAL	C-N-CA	5.51	126.06	120.00
1	jk	116	GLY	CA-C-N	5.51	127.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jk	116	GLY	C-N-CA	5.51	127.67	120.28
1	k0	155	GLN	N-CA-C	5.51	118.64	110.48
1	k4	121	ASN	CA-CB-CG	-5.51	107.09	112.60
1	k9	81	ASP	CB-CA-C	-5.51	100.08	110.67
1	kc	95	GLN	CG-CD-NE2	5.51	124.67	116.40
1	ke	82	ARG	CA-C-N	5.51	128.12	120.29
1	ke	82	ARG	C-N-CA	5.51	128.12	120.29
1	21	167	ARG	CA-C-N	5.51	127.61	120.44
1	21	167	ARG	C-N-CA	5.51	127.61	120.44
1	kA	151	LEU	CA-C-O	5.51	126.17	119.11
1	kG	226	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	kI	95	GLN	CG-CD-NE2	5.51	124.67	116.40
1	kV	226	HIS	CG-CD2-NE2	5.51	112.72	107.20
1	kW	115	ILE	CA-C-N	5.51	126.10	119.98
1	kW	115	ILE	C-N-CA	5.51	126.10	119.98
1	kZ	182	LYS	CA-C-O	-5.51	114.57	120.42
1	26	195	ASN	N-CA-C	5.51	117.51	109.84
1	la	140	LYS	N-CA-C	5.51	117.37	111.36
1	lc	55	MET	CA-C-N	5.51	127.67	120.28
1	lc	55	MET	C-N-CA	5.51	127.67	120.28
1	28	77	ALA	O-C-N	-5.51	116.35	122.09
1	lu	117	TRP	CE2-CD2-CE3	5.51	124.31	118.80
1	lA	58	THR	CA-C-N	5.51	127.51	120.56
1	lA	58	THR	C-N-CA	5.51	127.51	120.56
1	lB	199	LYS	CA-C-N	5.51	127.93	120.38
1	lB	199	LYS	C-N-CA	5.51	127.93	120.38
1	29	8	GLY	N-CA-C	5.51	118.40	112.33
1	lF	13	GLN	N-CA-C	-5.51	100.97	109.52
1	lJ	27	VAL	O-C-N	-5.51	115.57	121.80
1	lO	123	PRO	N-CA-C	5.51	119.88	111.11
1	2q	162	ARG	NE-CZ-NH1	5.51	127.02	121.50
1	2A	83	LEU	O-C-N	-5.51	116.39	122.07
1	2F	229	ARG	CG-CD-NE	-5.51	99.87	112.00
1	2O	116	GLY	CA-C-N	5.51	127.98	120.54
1	2O	116	GLY	C-N-CA	5.51	127.98	120.54
1	2U	18	ARG	O-C-N	-5.51	115.49	122.27
1	2Z	219	GLN	CG-CD-NE2	5.51	124.67	116.40
1	36	62	HIS	ND1-CG-CD2	5.51	111.61	106.10
1	38	48	THR	CA-C-O	-5.51	114.95	120.63
1	38	173	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	3j	62	HIS	O-C-N	-5.51	115.26	122.59
1	3t	128	GLU	CA-C-N	5.51	127.62	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3t	128	GLU	C-N-CA	5.51	127.62	120.56
1	3z	209	ALA	CA-C-N	5.51	128.67	120.95
1	3z	209	ALA	C-N-CA	5.51	128.67	120.95
1	3F	138	LEU	CA-C-N	5.51	127.67	120.28
1	3F	138	LEU	C-N-CA	5.51	127.67	120.28
1	3G	95	GLN	CB-CG-CD	5.51	121.97	112.60
1	3K	89	GLY	O-C-N	5.51	127.28	121.77
1	3U	67	GLN	CA-C-N	5.51	128.69	120.31
1	3U	67	GLN	C-N-CA	5.51	128.69	120.31
1	3W	126	VAL	N-CA-C	5.51	117.94	111.05
1	3Z	164	TYR	N-CA-CB	5.51	118.32	110.16
1	3Z	184	TRP	CA-C-N	5.51	127.67	120.28
1	3Z	184	TRP	C-N-CA	5.51	127.67	120.28
1	4E	99	PRO	N-CA-C	5.51	119.86	111.15
1	4I	143	ARG	CD-NE-CZ	5.51	132.12	124.40
1	4L	60	GLY	N-CA-C	5.51	120.97	111.98
1	4Z	176	GLN	CG-CD-OE1	-5.51	109.77	120.80
1	53	186	THR	CA-C-O	-5.51	115.03	120.82
1	5c	59	VAL	CB-CA-C	-5.51	103.94	111.33
1	5e	57	ASN	N-CA-C	5.51	116.97	111.07
1	5f	35	GLU	CA-C-O	5.51	126.22	119.05
1	5p	75	GLU	N-CA-C	5.51	117.73	111.11
1	5p	185	MET	CG-SD-CE	-5.51	88.77	100.90
1	5t	66	MET	O-C-N	-5.51	115.86	122.15
1	5u	123	PRO	CA-C-N	-5.51	117.36	123.43
1	5u	123	PRO	C-N-CA	-5.51	117.36	123.43
1	5B	63	GLN	CG-CD-NE2	5.51	124.67	116.40
1	5Y	176	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	6A	9	GLN	CG-CD-NE2	5.51	124.67	116.40
1	7i	153	ILE	N-CA-CB	5.51	118.41	111.46
1	7x	62	HIS	ND1-CE1-NE2	5.51	113.92	108.40
1	7x	152	ASP	N-CA-C	5.51	119.73	112.89
1	7E	92	GLU	CA-C-N	5.51	126.73	119.84
1	7E	92	GLU	C-N-CA	5.51	126.73	119.84
1	7Y	183	ASN	OD1-CG-ND2	-5.51	117.08	122.60
1	8i	140	LYS	N-CA-C	-5.51	105.17	111.07
1	8l	32	PHE	O-C-N	-5.51	116.31	122.93
1	8l	77	ALA	CA-C-O	5.51	126.39	120.55
1	8w	79	GLU	CA-C-N	5.51	127.98	120.54
1	8w	79	GLU	C-N-CA	5.51	127.98	120.54
1	8x	69	LEU	O-C-N	-5.51	116.14	122.09
1	8B	153	ILE	CA-C-N	5.51	131.14	122.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8B	153	ILE	C-N-CA	5.51	131.14	122.21
1	8D	212	GLU	CA-C-N	5.51	127.61	120.44
1	8D	212	GLU	C-N-CA	5.51	127.61	120.44
1	90	164	TYR	CA-C-N	5.51	127.51	120.56
1	90	164	TYR	C-N-CA	5.51	127.51	120.56
1	94	82	ARG	CA-C-N	5.51	128.12	120.29
1	94	82	ARG	C-N-CA	5.51	128.12	120.29
1	95	188	THR	CA-C-O	-5.51	115.10	120.89
1	9p	101	GLY	CA-C-N	5.51	127.67	120.28
1	9p	101	GLY	C-N-CA	5.51	127.67	120.28
1	9H	112	GLN	CA-C-N	5.51	127.67	120.28
1	9H	112	GLN	C-N-CA	5.51	127.67	120.28
1	9J	227	LYS	O-C-N	-5.51	116.86	123.31
1	9M	46	GLY	CA-C-N	5.51	128.70	120.87
1	9M	46	GLY	C-N-CA	5.51	128.70	120.87
1	9T	20	LEU	N-CA-C	5.51	117.29	111.28
1	a3	118	MET	CG-SD-CE	-5.51	88.77	100.90
1	a9	19	THR	O-C-N	-5.51	116.27	122.12
1	10	150	ILE	N-CA-CB	5.51	120.75	110.77
1	af	82	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	an	131	LYS	N-CA-C	5.51	118.00	111.33
1	aL	117	TRP	O-C-N	-5.51	116.28	122.12
1	aO	7	GLN	CB-CA-C	5.51	119.33	110.29
1	aX	165	VAL	CB-CA-C	-5.51	104.91	111.97
1	b0	171	THR	CA-C-O	5.51	126.27	120.42
1	ba	41	SER	N-CA-CB	5.51	118.83	110.28
1	bc	226	HIS	CG-CD2-NE2	5.51	112.72	107.20
1	bf	204	ALA	N-CA-C	5.51	117.29	111.28
1	bw	53	ASN	O-C-N	-5.51	116.39	122.07
1	bQ	229	ARG	CA-C-N	5.51	128.41	121.85
1	bQ	229	ARG	C-N-CA	5.51	128.41	121.85
1	bW	211	LEU	N-CA-C	5.51	117.29	111.28
1	bY	58	THR	CA-C-N	5.51	128.48	120.98
1	bY	58	THR	C-N-CA	5.51	128.48	120.98
1	c4	98	GLU	CB-CG-CD	5.51	121.98	112.60
1	ce	58	THR	N-CA-CB	5.51	119.12	110.46
1	1g	117	TRP	CA-C-O	5.51	126.40	120.55
1	cK	22	ALA	N-CA-C	5.51	116.97	111.07
1	cZ	154	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	d1	108	THR	CA-C-O	5.51	126.10	119.59
1	1i	197	ASP	N-CA-C	-5.51	105.27	111.28
1	d6	76	GLU	CB-CA-C	-5.51	101.64	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	de	140	LYS	CA-C-N	5.51	127.99	120.77
1	de	140	LYS	C-N-CA	5.51	127.99	120.77
1	dl	144	MET	O-C-N	-5.51	115.86	122.15
1	du	82	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	dz	155	GLN	N-CA-C	5.51	118.47	110.42
1	dJ	10	MET	N-CA-C	5.51	118.02	110.24
1	dL	115	ILE	N-CA-C	5.51	116.25	110.62
1	dM	69	LEU	CA-C-N	5.51	127.61	120.44
1	dM	69	LEU	C-N-CA	5.51	127.61	120.44
1	dN	162	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	dR	23	TRP	CA-C-N	5.51	127.71	120.60
1	dR	23	TRP	C-N-CA	5.51	127.71	120.60
1	dT	78	ALA	CA-C-N	5.51	127.94	120.38
1	dT	78	ALA	C-N-CA	5.51	127.94	120.38
1	dU	30	LYS	N-CA-C	5.51	120.89	113.72
1	ev	61	GLY	N-CA-C	-5.51	103.87	112.58
1	1r	36	VAL	N-CA-C	5.51	116.29	110.72
1	eE	128	GLU	CB-CA-C	-5.51	101.48	110.85
1	eG	187	GLU	N-CA-C	5.51	117.29	111.28
1	eH	82	ARG	N-CA-C	5.51	117.37	111.36
1	1u	143	ARG	N-CA-C	5.51	118.05	111.71
1	fl	78	ALA	CA-C-N	5.51	127.94	120.38
1	fl	78	ALA	C-N-CA	5.51	127.94	120.38
1	fn	27	VAL	N-CA-C	5.51	116.29	110.72
1	fs	106	GLY	N-CA-C	-5.51	107.39	115.72
1	fC	120	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	fH	120	HIS	CA-C-N	5.51	131.80	122.65
1	fH	120	HIS	C-N-CA	5.51	131.80	122.65
1	fM	168	PHE	CA-CB-CG	5.51	119.31	113.80
1	fS	78	ALA	CA-C-N	5.51	127.61	120.44
1	fS	78	ALA	C-N-CA	5.51	127.61	120.44
1	q	120	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	x	114	GLN	OE1-CD-NE2	-5.51	117.08	122.60
1	9	21	ASN	CA-C-N	5.51	128.12	120.29
1	9	21	ASN	C-N-CA	5.51	128.12	120.29
1	9	135	ILE	CA-C-N	5.51	127.67	120.28
1	9	135	ILE	C-N-CA	5.51	127.67	120.28
1	gy	186	THR	CA-C-N	5.51	127.61	120.44
1	gy	186	THR	C-N-CA	5.51	127.61	120.44
1	gD	68	MET	CB-CA-C	5.51	119.53	110.88
1	gE	18	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	ha	177	ALA	N-CA-C	5.51	118.44	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hc	121	ASN	N-CA-CB	-5.51	100.56	110.37
1	hl	126	VAL	CA-C-N	5.51	127.29	120.34
1	hl	126	VAL	C-N-CA	5.51	127.29	120.34
1	hm	71	GLU	CA-C-N	5.51	127.61	120.44
1	hm	71	GLU	C-N-CA	5.51	127.61	120.44
1	hA	126	VAL	CA-C-O	-5.51	115.22	120.95
1	hC	76	GLU	O-C-N	-5.51	116.28	122.12
1	i3	112	GLN	O-C-N	-5.51	115.77	122.22
1	ib	100	ARG	CA-C-N	5.51	127.03	120.14
1	ib	100	ARG	C-N-CA	5.51	127.03	120.14
1	ik	156	GLY	CA-C-N	5.51	125.03	119.19
1	ik	156	GLY	C-N-CA	5.51	125.03	119.19
1	ip	87	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	ix	82	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	iz	154	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	iI	136	LEU	N-CA-C	5.51	116.97	111.07
1	iU	27	VAL	CA-C-N	5.51	128.43	120.38
1	iU	27	VAL	C-N-CA	5.51	128.43	120.38
1	j5	134	ILE	CA-C-N	5.51	127.51	120.56
1	j5	134	ILE	C-N-CA	5.51	127.51	120.56
1	jA	6	LEU	O-C-N	-5.51	114.76	122.37
1	ka	56	LEU	CB-CA-C	-5.51	101.48	110.85
1	ki	166	ASP	CA-CB-CG	-5.51	107.09	112.60
1	21	62	HIS	N-CA-C	5.51	122.54	110.80
1	ks	171	THR	CA-C-N	5.51	127.93	120.38
1	ks	171	THR	C-N-CA	5.51	127.93	120.38
1	ls	36	VAL	CB-CA-C	5.51	119.58	112.14
1	lD	12	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	lF	87	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	lQ	229	ARG	NE-CZ-NH2	5.51	124.16	119.20
1	2d	72	THR	N-CA-C	5.51	117.29	111.28
1	2n	146	SER	N-CA-C	5.51	121.99	109.81
1	2Z	230	VAL	O-C-N	-5.51	116.85	122.75
1	38	150	ILE	N-CA-CB	5.51	118.04	110.54
1	3e	156	GLY	CA-C-O	-5.51	113.64	121.52
1	3u	64	ALA	CA-C-N	5.51	127.67	120.28
1	3u	64	ALA	C-N-CA	5.51	127.67	120.28
1	3w	84	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	4z	33	SER	O-C-N	-5.51	117.06	121.80
1	4M	143	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	5x	33	SER	O-C-N	-5.51	115.26	121.43
1	5R	36	VAL	CB-CA-C	-5.51	103.33	112.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Z	207	PRO	O-C-N	5.51	129.35	123.01
1	63	5	ASN	CB-CA-C	5.51	118.74	109.48
1	66	74	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	6B	24	VAL	CA-C-O	-5.51	115.22	120.95
1	6M	178	SER	CA-C-O	5.51	127.02	121.07
1	77	129	ILE	N-CA-C	5.51	116.24	110.62
1	95	120	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	96	80	TRP	N-CA-CB	-5.51	102.02	110.12
1	9l	92	GLU	CA-C-N	5.51	125.52	119.90
1	9l	92	GLU	C-N-CA	5.51	125.52	119.90
1	9m	189	LEU	CA-C-O	5.51	126.39	120.55
1	9n	47	ALA	N-CA-C	5.51	118.91	110.20
1	9p	64	ALA	CA-C-N	5.51	128.22	120.28
1	9p	64	ALA	C-N-CA	5.51	128.22	120.28
1	9O	199	LYS	N-CA-C	5.51	116.97	111.07
1	9Z	103	ASP	O-C-N	5.51	127.75	122.07
1	a8	85	PRO	CA-C-N	5.51	128.82	120.77
1	a8	85	PRO	C-N-CA	5.51	128.82	120.77
1	ah	12	HIS	CA-CB-CG	5.51	119.31	113.80
1	ap	74	ASN	O-C-N	-5.51	116.28	122.12
1	as	71	GLU	CA-C-N	5.51	127.67	120.28
1	as	71	GLU	C-N-CA	5.51	127.67	120.28
1	14	153	ILE	CB-CG1-CD1	5.51	125.38	113.80
1	b7	133	TRP	O-C-N	-5.51	116.28	122.12
1	ba	172	LEU	CA-C-O	5.51	126.33	120.10
1	bI	195	ASN	CA-C-N	5.51	126.73	119.84
1	bI	195	ASN	C-N-CA	5.51	126.73	119.84
1	bN	213	GLU	CA-C-N	5.51	128.69	120.31
1	bN	213	GLU	C-N-CA	5.51	128.69	120.31
1	bZ	101	GLY	O-C-N	-5.51	116.40	122.24
1	c1	142	VAL	N-CA-C	5.51	116.24	110.62
1	1d	33	SER	O-C-N	-5.51	116.22	121.57
1	ch	42	ALA	O-C-N	-5.51	115.49	122.27
1	co	48	THR	N-CA-CB	5.51	118.16	110.11
1	1h	189	LEU	N-CA-C	5.51	122.54	110.80
1	cV	6	LEU	CA-C-N	5.51	131.64	121.94
1	cV	6	LEU	C-N-CA	5.51	131.64	121.94
1	dk	195	ASN	CA-C-O	-5.51	114.29	119.80
1	dx	99	PRO	CA-C-O	5.51	128.10	121.48
1	dK	193	ASN	N-CA-C	5.51	119.87	113.20
1	e3	154	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	ef	132	ARG	CA-C-N	5.51	127.61	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ef	132	ARG	C-N-CA	5.51	127.61	120.44
1	eh	19	THR	O-C-N	-5.51	116.39	122.07
1	ek	118	MET	N-CA-CB	5.51	118.00	110.01
1	eX	88	ALA	O-C-N	-5.51	116.28	122.12
1	fe	176	GLN	N-CA-C	5.51	120.00	113.16
1	1x	144	MET	O-C-N	-5.51	116.39	122.07
1	fy	215	MET	N-CA-C	5.51	119.11	112.38
1	fQ	60	GLY	O-C-N	-5.51	115.53	122.70
1	fS	27	VAL	O-C-N	-5.51	116.15	121.83
1	g0	27	VAL	CA-C-N	5.51	127.67	120.28
1	g0	27	VAL	C-N-CA	5.51	127.67	120.28
1	m	98	GLU	N-CA-C	5.51	118.14	110.20
1	n	143	ARG	CB-CA-C	-5.51	102.22	110.88
1	y	73	ILE	N-CA-C	5.51	116.91	110.62
1	4	17	PRO	CB-CA-C	5.51	120.16	112.11
1	O	191	VAL	CA-C-N	5.51	127.94	120.44
1	O	191	VAL	C-N-CA	5.51	127.94	120.44
1	ga	147	PRO	N-CA-C	-5.51	107.63	114.68
1	ga	210	THR	N-CA-CB	5.51	118.83	110.45
1	gh	191	VAL	CA-C-N	5.51	128.22	120.28
1	gh	191	VAL	C-N-CA	5.51	128.22	120.28
1	gq	128	GLU	CA-C-O	-5.51	114.71	120.55
1	gr	32	PHE	CA-CB-CG	-5.51	108.29	113.80
1	gI	3	VAL	N-CA-C	5.51	116.72	107.18
1	gJ	224	PRO	N-CA-C	5.51	119.86	111.15
1	gK	58	THR	CA-C-N	5.51	127.50	120.56
1	gK	58	THR	C-N-CA	5.51	127.50	120.56
1	gO	104	ILE	O-C-N	-5.51	116.17	121.90
1	h4	55	MET	O-C-N	-5.51	116.28	122.12
1	h6	100	ARG	CA-C-N	5.51	126.20	120.03
1	h6	100	ARG	C-N-CA	5.51	126.20	120.03
1	ha	120	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	hk	100	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	hk	197	ASP	CA-C-N	5.51	127.60	120.44
1	hk	197	ASP	C-N-CA	5.51	127.60	120.44
1	hm	227	LYS	CA-C-N	5.51	127.67	120.28
1	hm	227	LYS	C-N-CA	5.51	127.67	120.28
1	ho	151	LEU	CA-C-N	5.51	132.04	122.56
1	ho	151	LEU	C-N-CA	5.51	132.04	122.56
1	hq	83	LEU	CA-C-O	-5.51	114.71	120.55
1	hw	111	LEU	CD1-CG-CD2	-5.51	98.67	110.80
1	1K	6	LEU	CA-C-N	5.51	129.44	120.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1K	6	LEU	C-N-CA	5.51	129.44	120.23
1	1L	22	ALA	CA-C-N	5.51	127.60	120.44
1	1L	22	ALA	C-N-CA	5.51	127.60	120.44
1	hV	1	PRO	CA-N-CD	-5.51	104.28	112.00
1	1N	86	VAL	O-C-N	-5.51	116.67	122.68
1	i4	28	GLU	N-CA-C	5.51	117.29	111.28
1	ig	41	SER	CA-C-N	5.51	128.12	120.29
1	ig	41	SER	C-N-CA	5.51	128.12	120.29
1	ik	93	PRO	CA-C-N	5.51	130.74	120.87
1	ik	93	PRO	C-N-CA	5.51	130.74	120.87
1	iq	39	MET	CA-C-N	5.51	127.66	120.28
1	iq	39	MET	C-N-CA	5.51	127.66	120.28
1	is	74	ASN	CA-CB-CG	-5.51	107.09	112.60
1	iJ	127	GLY	O-C-N	5.51	127.48	122.19
1	iN	27	VAL	CA-C-N	5.51	127.67	120.28
1	iN	27	VAL	C-N-CA	5.51	127.67	120.28
1	iQ	204	ALA	CA-C-O	-5.51	114.65	120.55
1	j0	48	THR	CA-C-N	5.51	125.60	119.32
1	j0	48	THR	C-N-CA	5.51	125.60	119.32
1	j1	53	ASN	O-C-N	5.51	127.96	122.12
1	jn	97	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	js	12	HIS	CA-C-N	5.51	130.86	122.65
1	js	12	HIS	C-N-CA	5.51	130.86	122.65
1	jB	156	GLY	O-C-N	-5.51	116.26	121.77
1	jG	118	MET	N-CA-C	5.51	120.00	113.16
1	jI	77	ALA	N-CA-C	5.51	118.00	111.33
1	jQ	112	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	jR	193	ASN	N-CA-C	-5.51	105.17	112.94
1	jX	86	VAL	CA-C-N	5.51	127.61	120.44
1	jX	86	VAL	C-N-CA	5.51	127.61	120.44
1	1Z	198	CYS	CA-C-N	5.51	127.67	120.28
1	1Z	198	CYS	C-N-CA	5.51	127.67	120.28
1	k9	47	ALA	N-CA-C	5.51	117.69	109.59
1	kf	167	ARG	N-CA-C	5.51	117.29	111.28
1	21	132	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	21	183	ASN	CA-C-O	5.51	126.39	120.55
1	kk	159	GLU	CA-C-N	5.51	126.73	119.84
1	kk	159	GLU	C-N-CA	5.51	126.73	119.84
1	kv	133	TRP	O-C-N	-5.51	116.28	122.12
1	ky	83	LEU	N-CA-C	5.51	117.37	111.36
1	kA	62	HIS	ND1-CG-CD2	5.51	111.61	106.10
1	kB	159	GLU	N-CA-C	5.51	116.61	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	50	GLN	N-CA-C	5.51	118.21	111.82
1	kR	108	THR	CA-C-N	-5.51	115.39	123.00
1	kR	108	THR	C-N-CA	-5.51	115.39	123.00
1	kZ	162	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	l0	100	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	lf	62	HIS	N-CA-C	5.51	119.18	111.74
1	ls	80	TRP	CB-CG-CD1	5.51	135.17	126.90
1	lt	179	GLN	CA-C-N	5.51	127.67	120.28
1	lt	179	GLN	C-N-CA	5.51	127.67	120.28
1	lx	226	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	lz	67	GLN	CB-CG-CD	5.51	121.97	112.60
1	lP	121	ASN	N-CA-CB	-5.51	102.05	109.88
1	2b	182	LYS	N-CA-CB	5.51	118.15	109.94
1	2z	34	PRO	CA-C-N	5.51	128.43	120.38
1	2z	34	PRO	C-N-CA	5.51	128.43	120.38
1	2I	65	ALA	N-CA-CB	5.51	118.00	110.01
1	2K	229	ARG	N-CA-CB	5.51	119.39	110.41
1	2N	3	VAL	O-C-N	-5.51	117.25	123.20
1	2Z	13	GLN	N-CA-CB	-5.51	101.28	111.53
1	32	173	ARG	NH1-CZ-NH2	-5.51	112.13	119.30
1	37	167	ARG	CA-C-N	5.51	127.66	120.28
1	37	167	ARG	C-N-CA	5.51	127.66	120.28
1	3d	19	THR	N-CA-C	5.51	117.29	111.28
1	3j	74	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	3l	70	LYS	N-CA-CB	5.51	118.32	110.16
1	3l	79	GLU	O-C-N	-5.51	115.77	122.22
1	3n	111	LEU	CA-C-N	5.51	127.67	120.28
1	3n	111	LEU	C-N-CA	5.51	127.67	120.28
1	3u	68	MET	CA-C-N	5.51	127.61	120.44
1	3u	68	MET	C-N-CA	5.51	127.61	120.44
1	3z	76	GLU	CA-C-N	5.51	127.61	120.44
1	3z	76	GLU	C-N-CA	5.51	127.61	120.44
1	3z	201	ILE	CB-CA-C	5.51	119.83	112.22
1	3H	167	ARG	N-CA-C	5.51	117.74	111.02
1	3M	197	ASP	O-C-N	-5.51	115.45	122.34
1	43	168	PHE	N-CA-CB	-5.51	102.02	110.01
1	4a	50	GLN	CA-C-N	5.51	128.12	120.29
1	4a	50	GLN	C-N-CA	5.51	128.12	120.29
1	4a	59	VAL	N-CA-C	5.51	115.96	110.23
1	57	133	TRP	N-CA-C	5.51	117.37	111.36
1	5c	118	MET	CG-SD-CE	-5.51	88.78	100.90
1	5m	156	GLY	O-C-N	-5.51	116.26	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	74	ASN	CA-CB-CG	-5.51	107.09	112.60
1	5F	85	PRO	CA-C-N	5.51	129.26	121.66
1	5F	85	PRO	C-N-CA	5.51	129.26	121.66
1	5L	118	MET	O-C-N	-5.51	114.85	122.46
1	5O	106	GLY	CA-C-N	5.51	130.05	120.68
1	5O	106	GLY	C-N-CA	5.51	130.05	120.68
1	60	154	ARG	N-CA-CB	-5.51	102.00	111.21
1	63	129	ILE	O-C-N	-5.51	116.52	121.87
1	64	172	LEU	N-CA-C	5.51	117.29	111.28
1	6o	19	THR	CB-CA-C	-5.51	101.64	110.79
1	6F	113	GLU	N-CA-C	5.51	118.05	111.71
1	6O	178	SER	N-CA-C	5.51	118.47	110.42
1	6P	120	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	6U	102	SER	CA-C-N	5.51	130.00	120.58
1	6U	102	SER	C-N-CA	5.51	130.00	120.58
1	71	121	ASN	CA-CB-CG	-5.51	107.09	112.60
1	72	172	LEU	N-CA-C	5.51	117.29	111.28
1	7q	33	SER	N-CA-C	-5.51	103.26	108.22
1	7w	35	GLU	O-C-N	-5.51	115.17	122.33
1	7z	149	SER	N-CA-CB	5.51	121.11	112.46
1	7K	87	HIS	CA-CB-CG	5.51	119.31	113.80
1	7K	100	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	7T	216	THR	CA-C-O	-5.51	114.71	120.55
1	7U	119	THR	O-C-N	5.51	128.95	122.34
1	83	63	GLN	N-CA-C	5.51	118.05	111.71
1	87	41	SER	CA-C-N	5.51	127.67	120.28
1	87	41	SER	C-N-CA	5.51	127.67	120.28
1	8a	198	CYS	CA-C-O	5.51	126.61	120.82
1	8k	130	TYR	O-C-N	-5.51	116.14	122.09
1	8E	62	HIS	ND1-CG-CD2	5.51	111.61	106.10
1	8I	12	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	8L	149	SER	N-CA-C	5.51	118.07	110.35
1	8Z	166	ASP	CA-C-N	5.51	127.60	120.44
1	8Z	166	ASP	C-N-CA	5.51	127.60	120.44
1	9c	12	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	9g	166	ASP	CA-C-O	5.51	126.79	121.00
1	9z	6	LEU	O-C-N	-5.51	117.47	123.26
1	9z	197	ASP	CA-CB-CG	-5.51	107.09	112.60
1	9G	168	PHE	O-C-N	-5.51	116.14	122.09
1	9K	13	GLN	CA-C-N	5.51	129.07	120.75
1	9K	13	GLN	C-N-CA	5.51	129.07	120.75
1	9K	142	VAL	N-CA-C	5.51	116.24	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9N	68	MET	CG-SD-CE	-5.51	88.77	100.90
1	9X	169	TYR	CB-CA-C	5.51	119.53	110.88
1	9X	205	LEU	N-CA-C	5.51	117.09	111.14
1	9Z	11	VAL	N-CA-CB	-5.51	104.52	110.53
1	9Z	21	ASN	CA-C-O	-5.51	115.03	120.82
1	a2	21	ASN	CA-C-N	5.51	127.67	120.28
1	a2	21	ASN	C-N-CA	5.51	127.67	120.28
1	ag	119	THR	N-CA-C	-5.51	106.14	112.92
1	aw	164	TYR	CA-C-N	5.51	128.01	120.46
1	aw	164	TYR	C-N-CA	5.51	128.01	120.46
1	aN	155	GLN	CA-C-O	-5.51	114.10	120.49
1	be	98	GLU	CB-CG-CD	5.51	121.97	112.60
1	bj	66	MET	O-C-N	-5.51	116.28	122.12
1	bm	27	VAL	N-CA-C	5.51	115.71	110.42
1	bn	37	ILE	O-C-N	-5.51	116.89	120.42
1	bq	70	LYS	CB-CA-C	5.51	119.63	110.81
1	bs	196	PRO	N-CA-C	5.51	123.82	112.47
1	bW	174	ALA	N-CA-C	5.51	117.29	111.28
1	bW	176	GLN	N-CA-C	-5.51	105.91	113.30
1	cc	29	GLU	N-CA-C	5.51	117.37	111.36
1	ck	120	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	cl	154	ARG	CG-CD-NE	-5.51	99.87	112.00
1	cn	4	GLN	OE1-CD-NE2	5.51	128.11	122.60
1	cr	204	ALA	N-CA-CB	-5.51	102.08	110.07
1	cH	148	THR	CA-C-O	5.51	127.16	120.99
1	cI	49	PRO	N-CA-C	5.51	123.82	112.47
1	cK	120	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	cS	121	ASN	O-C-N	-5.51	115.00	121.23
1	cT	208	ALA	CA-C-O	5.51	126.31	119.97
1	cX	220	GLY	CA-C-N	-5.51	115.59	122.48
1	cX	220	GLY	C-N-CA	-5.51	115.59	122.48
1	d3	170	LYS	CB-CA-C	5.51	119.63	110.81
1	d6	176	GLN	N-CA-C	5.51	117.09	109.15
1	df	82	ARG	N-CA-C	5.51	120.16	113.38
1	dD	53	ASN	O-C-N	-5.51	115.87	122.15
1	dF	83	LEU	CA-C-O	5.51	127.20	120.31
1	e9	70	LYS	O-C-N	-5.51	115.49	122.27
1	ee	91	ILE	O-C-N	-5.51	117.20	123.10
1	ee	219	GLN	N-CA-C	5.51	117.09	109.15
1	1q	131	LYS	N-CA-CB	5.51	118.15	109.94
1	1r	50	GLN	CA-C-N	5.51	128.12	120.29
1	1r	50	GLN	C-N-CA	5.51	128.12	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eF	166	ASP	N-CA-C	5.51	116.97	111.07
1	eQ	148	THR	N-CA-C	5.51	118.01	110.24
1	eU	146	SER	CA-C-N	5.51	126.24	120.12
1	eU	146	SER	C-N-CA	5.51	126.24	120.12
1	fi	37	ILE	CA-C-O	-5.51	114.17	118.85
1	fq	35	GLU	CB-CG-CD	5.51	121.97	112.60
1	1x	96	MET	N-CA-C	5.51	118.23	109.96
1	1x	102	SER	N-CA-CB	5.51	118.82	110.28
1	fD	137	GLY	CA-C-N	5.51	128.12	120.29
1	fD	137	GLY	C-N-CA	5.51	128.12	120.29
1	1y	109	SER	O-C-N	5.51	129.86	123.41
1	fG	153	ILE	CA-C-N	5.51	131.22	122.62
1	fG	153	ILE	C-N-CA	5.51	131.22	122.62
1	fK	27	VAL	O-C-N	-5.51	116.43	122.05
1	fM	129	ILE	CA-C-O	5.51	127.01	121.17
1	fN	212	GLU	N-CA-C	5.51	117.09	111.14
1	fQ	163	ASP	CA-CB-CG	-5.51	107.09	112.60
1	g2	82	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	g3	57	ASN	CA-CB-CG	5.51	118.11	112.60
1	a	63	GLN	CA-C-O	-5.51	114.68	120.63
1	b	228	ALA	N-CA-C	-5.51	100.69	109.07
1	i	170	LYS	CA-C-O	5.51	126.26	120.42
1	n	3	VAL	O-C-N	-5.51	117.25	123.20
1	q	133	TRP	CG-CD1-NE1	-5.51	103.04	110.20
1	A	98	GLU	O-C-N	-5.51	115.26	121.43
1	F	145	TYR	CA-C-N	5.51	128.50	120.51
1	F	145	TYR	C-N-CA	5.51	128.50	120.51
1	gb	171	THR	N-CA-C	5.51	117.29	111.28
1	gg	92	GLU	CA-C-N	5.51	125.48	120.03
1	gg	92	GLU	C-N-CA	5.51	125.48	120.03
1	gm	210	THR	CA-CB-OG1	5.51	117.87	109.60
1	gx	90	PRO	N-CD-CG	5.51	111.47	103.20
1	gM	39	MET	N-CA-C	5.51	116.96	111.07
1	gT	49	PRO	N-CA-CB	5.51	109.39	103.33
1	gU	40	PHE	CA-C-N	5.51	127.98	120.54
1	gU	40	PHE	C-N-CA	5.51	127.98	120.54
1	h0	20	LEU	N-CA-C	5.51	117.36	111.36
1	1H	174	ALA	N-CA-C	5.51	117.28	111.28
1	h7	20	LEU	N-CA-CB	5.51	118.00	110.01
1	h7	41	SER	CA-C-O	-5.51	115.03	120.82
1	hn	152	ASP	O-C-N	-5.51	115.73	122.34
1	hz	12	HIS	CE1-NE2-CD2	-5.51	103.49	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	17	PRO	CA-C-N	5.51	127.60	120.44
1	hC	17	PRO	C-N-CA	5.51	127.60	120.44
1	hE	50	GLN	O-C-N	-5.51	115.05	122.43
1	hJ	151	LEU	O-C-N	-5.51	114.39	122.43
1	1M	208	ALA	N-CA-C	-5.51	106.60	113.38
1	hX	25	LYS	CA-C-O	-5.51	112.82	119.27
1	hY	17	PRO	O-C-N	5.51	128.58	122.24
1	i0	178	SER	N-CA-C	5.51	117.84	110.35
1	1O	73	ILE	CB-CA-C	-5.51	104.83	111.88
1	ir	141	ILE	CA-C-O	-5.51	115.33	121.17
1	is	124	ILE	CA-CB-CG1	5.51	119.77	110.40
1	it	16	SER	CA-C-N	5.51	125.03	119.19
1	it	16	SER	C-N-CA	5.51	125.03	119.19
1	iC	139	ASN	CA-CB-CG	5.51	118.11	112.60
1	iD	14	ALA	CA-C-N	5.51	128.09	120.49
1	iD	14	ALA	C-N-CA	5.51	128.09	120.49
1	j3	111	LEU	CA-C-N	5.51	127.93	120.38
1	j3	111	LEU	C-N-CA	5.51	127.93	120.38
1	j9	91	ILE	N-CA-CB	5.51	116.94	110.82
1	1U	28	GLU	O-C-N	-5.51	116.28	122.12
1	1U	71	GLU	CB-CG-CD	5.51	121.97	112.60
1	jg	20	LEU	O-C-N	-5.51	116.28	122.12
1	jj	178	SER	N-CA-CB	5.51	118.14	110.04
1	jm	128	GLU	O-C-N	-5.51	116.28	122.12
1	jp	119	THR	O-C-N	-5.51	115.57	122.24
1	jv	113	GLU	CA-C-N	5.51	127.66	120.28
1	jv	113	GLU	C-N-CA	5.51	127.66	120.28
1	jw	164	TYR	O-C-N	-5.51	116.28	122.12
1	jD	114	GLN	N-CA-C	5.51	116.97	111.07
1	jE	114	GLN	N-CA-C	5.51	117.28	111.28
1	jF	154	ARG	NE-CZ-NH1	-5.51	115.99	121.50
1	jG	73	ILE	CA-C-N	5.51	127.93	120.44
1	jG	73	ILE	C-N-CA	5.51	127.93	120.44
1	jO	33	SER	N-CA-CB	5.51	116.71	109.55
1	jY	196	PRO	O-C-N	-5.51	115.91	122.24
1	kd	194	ALA	CA-C-O	-5.51	115.71	121.99
1	kh	64	ALA	N-CA-C	-5.51	105.35	111.36
1	ks	89	GLY	CA-C-N	5.51	126.73	119.84
1	ks	89	GLY	C-N-CA	5.51	126.73	119.84
1	kt	186	THR	N-CA-C	5.51	117.37	111.36
1	kF	7	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	kI	170	LYS	N-CA-CB	5.51	118.20	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kR	25	LYS	N-CA-C	5.51	118.00	111.33
1	l8	227	LYS	O-C-N	-5.51	116.76	123.10
1	lj	221	VAL	CA-C-O	5.51	127.52	121.13
1	lw	216	THR	N-CA-CB	5.51	118.64	110.49
1	lE	123	PRO	CA-C-O	-5.51	115.06	121.34
1	lN	216	THR	CA-CB-OG1	5.51	117.86	109.60
1	lR	184	TRP	CH2-CZ2-CE2	-5.51	110.34	117.50
1	2d	134	ILE	CB-CA-C	5.51	119.02	111.97
1	2q	197	ASP	CA-C-N	5.51	127.93	120.38
1	2q	197	ASP	C-N-CA	5.51	127.93	120.38
1	2A	97	ARG	CD-NE-CZ	5.51	132.11	124.40
1	2J	37	ILE	N-CA-CB	5.51	113.97	110.50
1	2J	173	ARG	N-CA-C	5.51	118.00	111.33
1	3e	175	GLU	N-CA-C	5.51	117.84	110.35
1	3i	23	TRP	CA-CB-CG	5.51	124.07	113.60
1	3l	226	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	3x	117	TRP	NE1-CE2-CD2	5.51	114.56	107.40
1	3H	115	ILE	N-CA-C	5.51	116.24	110.62
1	3Q	91	ILE	CA-C-O	5.51	127.13	120.85
1	4e	84	HIS	O-C-N	-5.51	115.86	121.31
1	4k	101	GLY	O-C-N	-5.51	116.90	122.19
1	4p	44	SER	CA-C-O	5.51	126.10	119.43
1	4p	106	GLY	N-CA-C	-5.51	107.17	115.32
1	4s	29	GLU	CA-C-O	5.51	126.26	120.42
1	4t	7	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	5o	173	ARG	CB-CA-C	5.51	119.94	110.79
1	5p	139	ASN	CA-C-N	5.51	127.66	120.28
1	5p	139	ASN	C-N-CA	5.51	127.66	120.28
1	5B	100	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	5D	87	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	5D	96	MET	CA-C-O	5.51	126.75	120.80
1	5M	68	MET	CA-C-O	5.51	126.60	120.82
1	5Y	215	MET	N-CA-C	5.51	118.21	111.82
1	6c	5	ASN	CA-C-O	-5.51	112.63	120.51
1	6y	52	LEU	CB-CA-C	5.51	120.22	110.85
1	6C	44	SER	CB-CA-C	-5.51	101.85	110.94
1	6E	150	ILE	N-CA-C	5.51	117.94	111.05
1	6J	54	THR	CA-C-N	5.51	127.60	120.44
1	6J	54	THR	C-N-CA	5.51	127.60	120.44
1	6J	83	LEU	CA-C-O	-5.51	112.48	119.31
1	7b	13	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	7E	123	PRO	CB-CA-C	5.51	118.20	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7G	171	THR	CA-CB-OG1	-5.51	101.34	109.60
1	7J	146	SER	N-CA-C	5.51	117.41	109.04
1	7Q	44	SER	CB-CA-C	-5.51	101.85	110.94
1	7W	199	LYS	O-C-N	-5.51	116.28	122.12
1	8i	86	VAL	N-CA-CB	5.51	117.81	110.26
1	8q	191	VAL	CA-CB-CG2	5.51	119.77	110.40
1	8w	112	GLN	O-C-N	-5.51	116.39	122.07
1	8z	129	ILE	N-CA-C	5.51	116.15	110.36
1	8A	139	ASN	CA-C-O	-5.51	114.68	120.63
1	8D	4	GLN	CA-C-N	5.51	128.53	120.71
1	8D	4	GLN	C-N-CA	5.51	128.53	120.71
1	8O	75	GLU	CA-C-N	5.51	128.11	120.29
1	8O	75	GLU	C-N-CA	5.51	128.11	120.29
1	8O	123	PRO	N-CD-CG	5.51	111.47	103.20
1	8O	154	ARG	CA-C-N	5.51	130.76	123.05
1	8O	154	ARG	C-N-CA	5.51	130.76	123.05
1	9h	62	HIS	CA-C-O	5.51	127.84	121.28
1	9i	195	ASN	CA-C-N	5.51	125.86	119.47
1	9i	195	ASN	C-N-CA	5.51	125.86	119.47
1	9l	53	ASN	CA-CB-CG	-5.51	107.09	112.60
1	9p	223	GLY	CA-C-N	5.51	126.28	120.11
1	9p	223	GLY	C-N-CA	5.51	126.28	120.11
1	9K	3	VAL	N-CA-C	5.51	115.71	110.53
1	9O	208	ALA	N-CA-C	-5.51	106.34	112.57
1	a1	16	SER	CA-C-O	-5.51	114.52	119.59
1	at	61	GLY	CA-C-O	-5.51	116.21	122.33
1	aF	43	LEU	CD1-CG-CD2	-5.51	98.68	110.80
1	aJ	99	PRO	CB-CA-C	5.51	120.65	111.56
1	aL	110	THR	N-CA-C	-5.51	102.36	110.52
1	aR	110	THR	CA-C-O	5.51	128.22	121.72
1	aT	221	VAL	CA-C-N	5.51	128.22	121.06
1	aT	221	VAL	C-N-CA	5.51	128.22	121.06
1	b0	202	LEU	O-C-N	-5.51	115.78	122.22
1	bk	33	SER	O-C-N	-5.51	116.86	121.54
1	bG	51	ASP	N-CA-CB	5.51	118.22	110.12
1	bS	221	VAL	CB-CA-C	-5.51	104.63	111.08
1	bW	54	THR	CA-C-N	5.51	127.60	120.44
1	bW	54	THR	C-N-CA	5.51	127.60	120.44
1	bY	167	ARG	CA-C-N	5.51	127.66	120.28
1	bY	167	ARG	C-N-CA	5.51	127.66	120.28
1	bZ	39	MET	CG-SD-CE	-5.51	88.78	100.90
1	c1	161	PHE	N-CA-C	5.51	117.28	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	100	ARG	NH1-CZ-NH2	-5.51	112.14	119.30
1	cr	18	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	cx	101	GLY	O-C-N	-5.51	116.83	122.17
1	d1	190	LEU	CA-C-N	5.51	127.50	120.56
1	d1	190	LEU	C-N-CA	5.51	127.50	120.56
1	db	135	ILE	CA-C-N	5.51	127.92	120.65
1	db	135	ILE	C-N-CA	5.51	127.92	120.65
1	dj	107	THR	CA-CB-OG1	5.51	117.86	109.60
1	dw	28	GLU	N-CA-C	5.51	116.96	111.07
1	dx	172	LEU	CA-C-N	5.51	127.93	120.38
1	dx	172	LEU	C-N-CA	5.51	127.93	120.38
1	dy	114	GLN	N-CA-C	5.51	119.17	112.23
1	dM	213	GLU	N-CA-C	5.51	117.28	111.28
1	e1	40	PHE	CA-C-N	5.51	127.66	120.28
1	e1	40	PHE	C-N-CA	5.51	127.66	120.28
1	e2	157	PRO	CA-C-O	5.51	126.19	118.86
1	ev	229	ARG	CA-C-O	-5.51	114.41	120.30
1	eA	134	ILE	CB-CA-C	-5.51	104.82	112.04
1	eA	198	CYS	N-CA-C	5.51	117.29	111.28
1	eB	210	THR	N-CA-C	5.51	117.40	110.24
1	eL	108	THR	CA-CB-OG1	5.51	117.86	109.60
1	eP	19	THR	CA-C-O	5.51	126.39	120.55
1	eP	92	GLU	CA-C-O	-5.51	112.61	120.16
1	eU	62	HIS	CA-CB-CG	-5.51	108.29	113.80
1	eU	196	PRO	N-CA-C	5.51	123.82	112.47
1	eW	200	THR	N-CA-CB	5.51	118.76	109.78
1	f0	62	HIS	ND1-CG-CD2	5.51	111.61	106.10
1	f1	216	THR	N-CA-CB	5.51	118.93	110.61
1	f8	36	VAL	CA-C-O	5.51	126.69	120.85
1	f8	98	GLU	O-C-N	-5.51	116.40	121.30
1	fg	193	ASN	N-CA-CB	5.51	118.64	110.49
1	fk	73	ILE	CB-CA-C	5.51	119.58	112.14
1	fo	121	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	fs	28	GLU	CA-C-N	5.51	127.66	120.28
1	fs	28	GLU	C-N-CA	5.51	127.66	120.28
1	fu	67	GLN	O-C-N	5.51	128.43	122.15
1	fv	124	ILE	CA-C-O	-5.51	115.24	119.98
1	fz	39	MET	O-C-N	-5.51	116.39	122.07
1	fJ	117	TRP	CA-CB-CG	5.51	124.07	113.60
1	fN	182	LYS	CA-C-N	5.51	127.98	120.54
1	fN	182	LYS	C-N-CA	5.51	127.98	120.54
1	fQ	87	HIS	CB-CG-ND1	5.51	130.96	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fS	39	MET	N-CA-C	5.51	117.28	111.28
1	1A	66	MET	O-C-N	5.51	128.43	122.15
1	h	124	ILE	O-C-N	-5.51	113.99	120.66
1	h	147	PRO	O-C-N	-5.51	115.20	122.64
1	w	68	MET	O-C-N	-5.51	116.28	122.12
1	4	42	ALA	N-CA-C	5.51	117.09	111.14
1	Q	147	PRO	N-CA-CB	-5.51	97.68	103.52
1	7	94	GLY	CA-C-O	5.51	126.60	119.44
1	ge	110	THR	CA-C-N	5.51	127.98	120.54
1	ge	110	THR	C-N-CA	5.51	127.98	120.54
1	gk	213	GLU	CB-CA-C	-5.51	101.65	110.79
1	gz	74	ASN	CA-CB-CG	5.51	118.11	112.60
1	gA	97	ARG	NH1-CZ-NH2	-5.51	112.14	119.30
1	gA	230	VAL	N-CA-CB	5.51	116.82	110.49
1	gT	215	MET	N-CA-C	5.51	118.04	111.71
1	gW	86	VAL	O-C-N	-5.51	117.25	123.03
1	hg	132	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	hm	141	ILE	N-CA-C	5.51	115.71	110.42
1	hq	19	THR	N-CA-CB	5.51	118.00	110.01
1	hz	136	LEU	CA-C-N	5.51	126.05	119.94
1	hz	136	LEU	C-N-CA	5.51	126.05	119.94
1	ia	31	ALA	N-CA-C	5.51	122.53	110.80
1	1Q	120	HIS	CA-CB-CG	-5.51	108.29	113.80
1	jj	209	ALA	N-CA-C	5.51	118.22	110.23
1	jE	154	ARG	O-C-N	-5.51	116.51	123.17
1	kg	183	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	ky	228	ALA	CA-C-N	5.51	128.53	120.71
1	ky	228	ALA	C-N-CA	5.51	128.53	120.71
1	kB	176	GLN	N-CA-CB	5.51	119.80	110.49
1	kP	217	ALA	CA-C-O	-5.51	115.22	121.72
1	kR	21	ASN	CA-C-N	5.51	127.66	120.28
1	kR	21	ASN	C-N-CA	5.51	127.66	120.28
1	kU	164	TYR	O-C-N	-5.51	116.40	122.07
1	l0	75	GLU	N-CA-CB	-5.51	102.02	110.01
1	l8	42	ALA	CA-C-O	5.51	126.60	120.82
1	lk	182	LYS	N-CA-C	5.51	117.28	111.28
1	lm	76	GLU	O-C-N	5.51	127.96	122.12
1	lp	200	THR	N-CA-C	5.51	117.28	111.28
1	lF	74	ASN	CA-C-O	5.51	126.14	119.31
1	lK	24	VAL	CA-CB-CG1	5.51	119.76	110.40
1	2g	198	CYS	CA-C-N	5.51	128.11	120.29
1	2g	198	CYS	C-N-CA	5.51	128.11	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	87	HIS	O-C-N	-5.51	116.09	122.87
1	2N	102	SER	CA-C-N	5.51	127.60	120.44
1	2N	102	SER	C-N-CA	5.51	127.60	120.44
1	33	43	LEU	O-C-N	-5.51	115.73	122.34
1	37	39	MET	CA-C-O	5.51	126.79	120.90
1	3w	50	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	3x	84	HIS	O-C-N	-5.51	114.33	121.10
1	3V	31	ALA	N-CA-C	5.51	117.28	111.28
1	3X	50	GLN	CA-C-N	5.51	127.66	120.28
1	3X	50	GLN	C-N-CA	5.51	127.66	120.28
1	3Y	179	GLN	N-CA-C	5.51	117.28	111.28
1	4a	123	PRO	CA-C-O	-5.51	115.26	121.43
1	4L	132	ARG	CA-C-N	5.51	127.60	120.44
1	4L	132	ARG	C-N-CA	5.51	127.60	120.44
1	4P	74	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	5g	102	SER	CA-C-N	5.51	127.60	120.44
1	5g	102	SER	C-N-CA	5.51	127.60	120.44
1	5n	156	GLY	O-C-N	-5.51	116.26	121.77
1	5o	190	LEU	N-CA-C	5.51	120.46	111.37
1	5s	216	THR	N-CA-CB	5.51	119.08	109.72
1	5x	83	LEU	CB-CA-C	5.51	119.44	110.96
1	5G	203	LYS	CA-C-N	5.51	127.66	120.28
1	5G	203	LYS	C-N-CA	5.51	127.66	120.28
1	68	181	VAL	CA-C-N	5.51	130.00	120.58
1	68	181	VAL	C-N-CA	5.51	130.00	120.58
1	6c	130	TYR	N-CA-C	5.51	117.28	111.28
1	6L	63	GLN	O-C-N	-5.51	115.50	122.27
1	7H	113	GLU	O-C-N	-5.51	116.28	122.12
1	7Z	70	LYS	N-CA-C	5.51	117.28	111.28
1	84	175	GLU	N-CA-C	5.51	118.27	110.50
1	8a	156	GLY	CA-C-O	-5.51	116.71	122.38
1	8y	37	ILE	O-C-N	-5.51	116.16	120.07
1	8H	209	ALA	CA-C-O	5.51	127.14	120.81
1	8K	173	ARG	CD-NE-CZ	5.51	132.11	124.40
1	9c	206	GLY	O-C-N	-5.51	116.26	121.77
1	9H	160	PRO	N-CA-C	5.51	119.85	111.15
1	9H	162	ARG	N-CA-CB	5.51	118.82	110.28
1	9K	195	ASN	O-C-N	-5.51	115.47	121.53
1	9M	24	VAL	CA-C-N	5.51	128.21	120.28
1	9M	24	VAL	C-N-CA	5.51	128.21	120.28
1	9P	98	GLU	O-C-N	5.51	127.59	121.53
1	a5	9	GLN	N-CA-C	5.51	118.22	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	111	LEU	CA-C-O	-5.51	115.04	120.82
1	av	9	GLN	O-C-N	-5.51	115.27	122.59
1	aA	183	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	aX	38	PRO	CA-C-N	5.51	127.66	120.28
1	aX	38	PRO	C-N-CA	5.51	127.66	120.28
1	bc	100	ARG	CG-CD-NE	-5.51	99.88	112.00
1	be	169	TYR	O-C-N	-5.51	115.50	122.27
1	bf	96	MET	CG-SD-CE	-5.51	88.78	100.90
1	bk	79	GLU	CA-C-N	5.51	127.92	120.38
1	bk	79	GLU	C-N-CA	5.51	127.92	120.38
1	bI	212	GLU	N-CA-C	5.51	117.28	111.28
1	cC	7	GLN	CA-C-O	5.51	125.20	119.14
1	cE	72	THR	CA-CB-CG2	5.51	119.86	110.50
1	cQ	115	ILE	O-C-N	-5.51	116.43	121.94
1	de	228	ALA	CA-C-O	5.51	127.39	121.55
1	dE	173	ARG	N-CA-C	5.51	117.36	111.36
1	dH	190	LEU	N-CA-C	5.51	117.72	111.11
1	dN	141	ILE	O-C-N	-5.51	116.53	121.87
1	e1	155	GLN	CA-C-O	-5.51	115.71	121.55
1	ee	80	TRP	CA-C-N	5.51	127.66	120.28
1	ee	80	TRP	C-N-CA	5.51	127.66	120.28
1	en	182	LYS	N-CA-C	5.51	117.28	111.28
1	ey	82	ARG	CA-C-N	5.51	127.93	120.44
1	ey	82	ARG	C-N-CA	5.51	127.93	120.44
1	ff	107	THR	N-CA-CB	5.51	118.51	110.47
1	1y	125	PRO	N-CA-CB	5.51	106.75	102.73
1	g0	156	GLY	O-C-N	-5.51	116.26	121.77
1	y	199	LYS	N-CA-C	5.51	117.28	111.28
1	6	52	LEU	N-CA-C	5.51	116.96	111.07
1	gd	159	GLU	N-CA-C	5.51	119.22	109.58
1	gn	100	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	gr	169	TYR	N-CA-CB	5.51	118.31	110.16
1	gr	229	ARG	NE-CZ-NH1	5.51	127.01	121.50
1	gz	26	VAL	O-C-N	-5.51	116.31	121.87
1	gF	76	GLU	N-CA-C	5.51	118.21	111.82
1	gO	158	LYS	CA-C-O	5.51	126.09	119.59
1	h0	63	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	h0	165	VAL	N-CA-C	5.51	116.24	110.62
1	h5	82	ARG	CA-C-N	5.51	127.60	120.44
1	h5	82	ARG	C-N-CA	5.51	127.60	120.44
1	h7	170	LYS	N-CA-C	5.51	116.96	111.07
1	hd	165	VAL	N-CA-CB	5.51	118.84	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	185	MET	N-CA-C	5.51	117.28	111.28
1	hZ	199	LYS	CA-C-O	5.51	126.58	120.63
1	i2	24	VAL	O-C-N	-5.51	116.16	121.83
1	ia	15	ILE	CB-CA-C	-5.51	102.62	111.59
1	1O	10	MET	O-C-N	-5.51	115.27	122.59
1	ip	54	THR	N-CA-C	5.51	117.28	111.28
1	ir	48	THR	CA-CB-OG1	5.51	117.86	109.60
1	iy	14	ALA	O-C-N	-5.51	116.12	122.95
1	iH	17	PRO	CA-N-CD	-5.51	104.29	112.00
1	j0	139	ASN	OD1-CG-ND2	-5.51	117.09	122.60
1	j3	21	ASN	OD1-CG-ND2	5.51	128.11	122.60
1	j9	192	GLN	CB-CG-CD	5.51	121.96	112.60
1	jn	1	PRO	CA-C-N	5.51	127.88	120.50
1	jn	1	PRO	C-N-CA	5.51	127.88	120.50
1	1W	207	PRO	N-CA-C	-5.51	101.13	112.47
1	jN	13	GLN	N-CA-C	-5.51	100.91	109.72
1	jR	106	GLY	CA-C-N	5.51	127.92	120.38
1	jR	106	GLY	C-N-CA	5.51	127.92	120.38
1	jX	20	LEU	N-CA-C	5.51	117.36	111.36
1	k4	221	VAL	N-CA-CB	5.51	117.02	111.57
1	kf	76	GLU	CA-C-O	5.51	126.26	120.42
1	kj	5	ASN	O-C-N	5.51	129.22	122.34
1	kE	158	LYS	CA-C-N	5.51	128.14	120.65
1	kE	158	LYS	C-N-CA	5.51	128.14	120.65
1	kT	165	VAL	O-C-N	5.51	127.21	121.87
1	kV	13	GLN	N-CA-C	5.51	118.22	109.24
1	lg	23	TRP	CA-C-O	-5.51	114.71	120.55
1	lm	150	ILE	N-CA-C	5.51	116.24	110.62
1	lC	1	PRO	CA-C-N	-5.51	116.36	123.19
1	lC	1	PRO	C-N-CA	-5.51	116.36	123.19
1	lR	115	ILE	CA-C-O	5.51	126.69	120.85
1	lR	200	THR	N-CA-CB	5.51	118.14	109.94
1	2b	132	ARG	N-CA-C	5.51	117.28	111.28
1	2e	172	LEU	CA-C-N	5.51	127.93	120.44
1	2e	172	LEU	C-N-CA	5.51	127.93	120.44
1	2r	68	MET	CG-SD-CE	-5.51	88.79	100.90
1	2D	51	ASP	CA-C-N	5.51	130.00	120.58
1	2D	51	ASP	C-N-CA	5.51	130.00	120.58
1	2P	206	GLY	O-C-N	-5.51	116.26	121.77
1	30	70	LYS	CA-C-N	5.51	128.11	120.29
1	30	70	LYS	C-N-CA	5.51	128.11	120.29
1	30	179	GLN	CG-CD-NE2	5.51	124.66	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	113	GLU	CA-C-N	5.51	127.66	120.28
1	38	113	GLU	C-N-CA	5.51	127.66	120.28
1	38	184	TRP	O-C-N	-5.51	116.28	122.12
1	3m	146	SER	N-CA-C	5.51	120.41	113.25
1	3r	6	LEU	O-C-N	-5.51	115.78	122.22
1	3t	195	ASN	CA-CB-CG	5.51	118.11	112.60
1	3v	159	GLU	O-C-N	-5.51	114.55	121.21
1	3D	165	VAL	CB-CA-C	-5.51	104.92	111.97
1	3M	112	GLN	N-CA-C	5.51	117.99	111.33
1	42	179	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	4e	226	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	4n	126	VAL	N-CA-C	5.51	116.24	110.62
1	4t	214	MET	CA-C-N	5.51	128.68	120.31
1	4t	214	MET	C-N-CA	5.51	128.68	120.31
1	4w	230	VAL	CA-C-O	5.51	127.32	121.04
1	4x	212	GLU	CA-C-O	5.51	126.39	120.55
1	4y	200	THR	CA-C-N	5.51	128.24	120.42
1	4y	200	THR	C-N-CA	5.51	128.24	120.42
1	4H	13	GLN	O-C-N	-5.51	117.31	123.48
1	4Y	100	ARG	CA-C-N	5.51	126.20	120.03
1	4Y	100	ARG	C-N-CA	5.51	126.20	120.03
1	4Z	4	GLN	N-CA-C	5.51	119.21	109.96
1	5i	167	ARG	CA-C-N	5.51	128.44	120.79
1	5i	167	ARG	C-N-CA	5.51	128.44	120.79
1	5m	23	TRP	CE2-CD2-CE3	5.51	124.31	118.80
1	5o	167	ARG	CA-C-N	5.51	127.92	120.65
1	5o	167	ARG	C-N-CA	5.51	127.92	120.65
1	5z	24	VAL	CA-C-O	5.51	126.68	120.95
1	5I	20	LEU	N-CA-C	5.51	117.36	111.36
1	5J	68	MET	N-CA-CB	-5.51	102.02	110.01
1	5S	90	PRO	CB-CA-C	5.51	118.28	111.23
1	5S	172	LEU	CA-C-O	5.51	126.60	120.82
1	61	195	ASN	CB-CA-C	5.51	118.49	109.46
1	62	153	ILE	CA-CB-CG2	-5.51	101.14	110.50
1	62	187	GLU	N-CA-C	5.51	116.96	111.07
1	63	153	ILE	N-CA-C	5.51	117.56	109.63
1	63	221	VAL	CA-C-N	5.51	130.97	120.07
1	63	221	VAL	C-N-CA	5.51	130.97	120.07
1	64	9	GLN	CB-CA-C	5.51	119.29	109.38
1	6e	175	GLU	CA-C-O	5.51	128.33	121.89
1	6f	78	ALA	CA-C-N	5.51	128.68	120.31
1	6f	78	ALA	C-N-CA	5.51	128.68	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6R	131	LYS	CA-CB-CG	5.51	125.11	114.10
1	75	85	PRO	CA-C-N	5.51	127.88	120.50
1	75	85	PRO	C-N-CA	5.51	127.88	120.50
1	7a	62	HIS	ND1-CG-CD2	5.51	111.61	106.10
1	7l	36	VAL	N-CA-C	5.51	116.24	110.62
1	7m	44	SER	CA-C-N	5.51	127.66	120.28
1	7m	44	SER	C-N-CA	5.51	127.66	120.28
1	7p	223	GLY	CA-C-N	5.51	126.72	119.84
1	7p	223	GLY	C-N-CA	5.51	126.72	119.84
1	7r	10	MET	CA-C-O	5.51	127.25	120.15
1	7z	125	PRO	CA-C-N	5.51	128.00	120.46
1	7z	125	PRO	C-N-CA	5.51	128.00	120.46
1	7z	134	ILE	CA-C-N	5.51	128.00	120.46
1	7z	134	ILE	C-N-CA	5.51	128.00	120.46
1	7D	199	LYS	CA-C-N	5.51	127.92	120.38
1	7D	199	LYS	C-N-CA	5.51	127.92	120.38
1	7E	4	GLN	CG-CD-NE2	5.51	124.66	116.40
1	7R	165	VAL	CA-CB-CG1	5.51	119.76	110.40
1	7W	101	GLY	CA-C-N	5.51	127.66	120.28
1	7W	101	GLY	C-N-CA	5.51	127.66	120.28
1	8c	10	MET	CG-SD-CE	-5.51	88.78	100.90
1	8c	84	HIS	ND1-CE1-NE2	5.51	113.91	108.40
1	8h	105	ALA	CA-C-O	5.51	126.26	120.42
1	8l	230	VAL	O-C-N	-5.51	116.70	122.81
1	8N	100	ARG	CA-C-N	5.51	126.06	120.00
1	8N	100	ARG	C-N-CA	5.51	126.06	120.00
1	98	44	SER	N-CA-C	5.51	119.63	113.02
1	9b	54	THR	O-C-N	-5.51	116.28	122.12
1	9n	98	GLU	N-CA-C	5.51	116.59	109.65
1	9U	213	GLU	N-CA-CB	-5.51	102.01	110.16
1	a3	53	ASN	O-C-N	-5.51	116.40	122.07
1	ad	135	ILE	N-CA-C	5.51	116.24	110.62
1	ae	183	ASN	CA-C-N	5.51	127.66	120.28
1	ae	183	ASN	C-N-CA	5.51	127.66	120.28
1	ah	162	ARG	NE-CZ-NH2	-5.51	114.24	119.20
1	am	152	ASP	CA-CB-CG	5.51	118.11	112.60
1	ay	120	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	aC	153	ILE	N-CA-C	5.51	116.36	108.93
1	aF	13	GLN	O-C-N	-5.51	116.55	123.27
1	aK	209	ALA	O-C-N	-5.51	117.48	123.26
1	aL	33	SER	CA-C-O	-5.51	115.39	120.13
1	aR	87	HIS	CA-CB-CG	5.51	119.31	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b9	1	PRO	CB-CA-C	5.51	120.56	110.10
1	bh	83	LEU	N-CA-C	-5.51	104.11	112.04
1	bn	176	GLN	CA-C-N	5.51	128.91	120.82
1	bn	176	GLN	C-N-CA	5.51	128.91	120.82
1	bo	2	ILE	O-C-N	-5.51	115.94	122.77
1	bo	112	GLN	O-C-N	-5.51	116.28	122.12
1	18	145	TYR	N-CA-C	5.51	120.65	113.88
1	bw	83	LEU	CB-CA-C	-5.51	99.15	109.72
1	bF	84	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	bL	222	GLY	O-C-N	-5.51	117.62	122.85
1	bM	54	THR	CA-C-O	5.51	126.79	120.90
1	bN	169	TYR	CA-C-O	5.51	126.30	119.97
1	bO	82	ARG	NH1-CZ-NH2	-5.51	112.14	119.30
1	bY	15	ILE	CA-C-N	5.51	128.04	120.39
1	bY	15	ILE	C-N-CA	5.51	128.04	120.39
1	c1	104	ILE	N-CA-CB	5.51	118.03	110.54
1	c5	35	GLU	N-CA-C	5.51	119.48	112.87
1	c6	122	PRO	CA-C-N	5.51	126.72	119.84
1	c6	122	PRO	C-N-CA	5.51	126.72	119.84
1	ce	167	ARG	CA-C-N	5.51	127.60	120.44
1	ce	167	ARG	C-N-CA	5.51	127.60	120.44
1	ch	121	ASN	N-CA-C	-5.51	100.59	109.40
1	1e	208	ALA	CA-C-N	5.51	128.69	120.87
1	1e	208	ALA	C-N-CA	5.51	128.69	120.87
1	cu	216	THR	O-C-N	5.51	127.96	122.12
1	cD	87	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	cF	65	ALA	CA-C-O	-5.51	113.64	119.97
1	cH	181	VAL	CA-C-O	5.51	127.01	121.17
1	1g	124	ILE	N-CA-CB	5.51	118.02	111.08
1	cS	49	PRO	CA-C-N	5.51	127.66	120.28
1	cS	49	PRO	C-N-CA	5.51	127.66	120.28
1	d1	39	MET	CG-SD-CE	-5.51	88.79	100.90
1	d4	107	THR	N-CA-C	5.51	118.21	111.82
1	ds	193	ASN	N-CA-C	-5.51	106.23	113.17
1	dx	191	VAL	O-C-N	-5.51	116.53	121.87
1	dz	71	GLU	N-CA-C	5.51	117.99	111.33
1	dC	162	ARG	CA-C-N	5.51	127.60	120.44
1	dC	162	ARG	C-N-CA	5.51	127.60	120.44
1	dK	183	ASN	CA-CB-CG	5.51	118.11	112.60
1	dU	136	LEU	CB-CA-C	-5.51	101.65	110.79
1	dX	73	ILE	CA-C-N	5.51	127.92	120.38
1	dX	73	ILE	C-N-CA	5.51	127.92	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dY	85	PRO	CA-C-O	-5.51	115.17	121.56
1	eh	168	PHE	CA-C-N	5.51	127.60	120.44
1	eh	168	PHE	C-N-CA	5.51	127.60	120.44
1	el	123	PRO	CA-C-O	-5.51	114.95	121.67
1	eo	87	HIS	CG-CD2-NE2	5.51	112.71	107.20
1	et	106	GLY	CA-C-N	5.51	127.66	120.28
1	et	106	GLY	C-N-CA	5.51	127.66	120.28
1	eL	40	PHE	N-CA-C	5.51	117.28	111.28
1	eP	120	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
1	1t	203	LYS	O-C-N	-5.51	115.50	122.27
1	eR	63	GLN	OE1-CD-NE2	-5.51	117.09	122.60
1	eW	88	ALA	N-CA-C	5.51	122.53	110.80
1	f0	135	ILE	O-C-N	5.51	127.21	121.87
1	f2	137	GLY	CA-C-O	5.51	126.20	120.80
1	fc	152	ASP	O-C-N	-5.51	115.73	122.34
1	fw	86	VAL	N-CA-C	5.51	115.79	107.75
1	fC	216	THR	N-CA-C	-5.51	105.69	112.90
1	fF	155	GLN	CA-C-O	5.51	126.55	120.71
1	fK	108	THR	CA-CB-OG1	5.51	117.86	109.60
1	fW	217	ALA	N-CA-C	5.51	117.02	110.19
1	g0	99	PRO	O-C-N	-5.51	116.29	123.06
1	0	206	GLY	N-CA-C	5.51	123.57	112.34
1	q	21	ASN	CA-C-O	-5.51	114.71	120.55
1	q	174	ALA	CA-C-N	5.51	132.35	122.38
1	q	174	ALA	C-N-CA	5.51	132.35	122.38
1	U	112	GLN	N-CA-C	5.51	119.10	112.38
1	X	16	SER	N-CA-C	5.51	116.63	109.64
1	g8	14	ALA	N-CA-C	5.50	117.84	110.35
1	ge	84	HIS	N-CA-CB	5.50	118.05	110.01
1	go	128	GLU	CA-C-N	5.50	127.50	120.56
1	go	128	GLU	C-N-CA	5.50	127.50	120.56
1	gA	31	ALA	CA-C-N	-5.50	115.45	122.77
1	gA	31	ALA	C-N-CA	-5.50	115.45	122.77
1	h6	33	SER	O-C-N	-5.50	114.99	121.32
1	hq	101	GLY	CA-C-N	5.50	128.11	120.29
1	hq	101	GLY	C-N-CA	5.50	128.11	120.29
1	hv	86	VAL	CA-C-N	5.50	131.20	122.94
1	hv	86	VAL	C-N-CA	5.50	131.20	122.94
1	hQ	217	ALA	O-C-N	-5.50	116.58	122.85
1	hU	194	ALA	N-CA-C	5.50	117.95	110.35
1	i3	161	PHE	CA-CB-CG	-5.50	108.30	113.80
1	is	143	ARG	CA-C-N	5.50	127.66	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	is	143	ARG	C-N-CA	5.50	127.66	120.28
1	iW	211	LEU	O-C-N	-5.50	115.87	122.15
1	1T	99	PRO	CB-CA-C	-5.50	102.48	111.56
1	jP	128	GLU	CA-C-O	-5.50	114.58	120.42
1	jS	121	ASN	O-C-N	-5.50	116.49	121.39
1	k0	153	ILE	O-C-N	-5.50	116.77	122.66
1	ky	227	LYS	CB-CG-CD	5.50	123.96	111.30
1	kU	225	GLY	O-C-N	-5.50	115.54	122.70
1	l6	56	LEU	O-C-N	-5.50	115.88	122.15
1	lq	90	PRO	CA-C-N	5.50	129.04	120.34
1	lq	90	PRO	C-N-CA	5.50	129.04	120.34
1	lD	82	ARG	NE-CZ-NH1	-5.50	116.00	121.50
1	2b	110	THR	CA-CB-CG2	5.50	119.86	110.50
1	2L	140	LYS	CA-C-O	5.50	126.26	120.42
1	2P	205	LEU	N-CA-C	5.50	117.72	111.11
1	39	92	GLU	CA-C-N	5.50	125.43	119.76
1	39	92	GLU	C-N-CA	5.50	125.43	119.76
1	3s	41	SER	O-C-N	-5.50	116.36	122.09
1	3K	166	ASP	CA-C-N	5.50	127.97	120.54
1	3K	166	ASP	C-N-CA	5.50	127.97	120.54
1	3M	5	ASN	CA-C-O	5.50	125.11	119.05
1	42	214	MET	CA-C-O	5.50	126.60	120.82
1	4a	186	THR	N-CA-C	5.50	118.21	111.82
1	4O	184	TRP	CD2-CE2-CZ2	-5.50	116.89	122.40
1	5i	50	GLN	CG-CD-NE2	-5.50	108.14	116.40
1	6c	48	THR	CA-CB-CG2	-5.50	101.14	110.50
1	6j	133	TRP	CA-CB-CG	5.50	124.06	113.60
1	6s	104	ILE	O-C-N	-5.50	116.53	121.87
1	6G	202	LEU	CD1-CG-CD2	-5.50	98.69	110.80
1	7a	134	ILE	CB-CA-C	-5.50	104.81	112.02
1	8c	134	ILE	N-CA-C	-5.50	105.16	110.72
1	90	136	LEU	CA-C-O	5.50	126.39	120.55
1	9i	50	GLN	OE1-CD-NE2	-5.50	117.09	122.60
1	9l	147	PRO	N-CA-CB	5.50	109.03	103.25
1	9z	151	LEU	CA-C-O	5.50	126.25	120.42
1	a8	141	ILE	CA-CB-CG2	-5.50	101.14	110.50
1	am	198	CYS	CA-C-N	5.50	127.60	120.44
1	am	198	CYS	C-N-CA	5.50	127.60	120.44
1	15	82	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	aZ	183	ASN	CA-CB-CG	5.50	118.11	112.60
1	bm	39	MET	CA-C-N	5.50	127.60	120.44
1	bm	39	MET	C-N-CA	5.50	127.60	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bC	47	ALA	CA-C-O	5.50	126.43	120.43
1	1b	128	GLU	O-C-N	5.50	128.43	122.15
1	c8	162	ARG	CA-C-N	5.50	127.93	120.44
1	c8	162	ARG	C-N-CA	5.50	127.93	120.44
1	d1	85	PRO	N-CA-C	5.50	119.73	111.14
1	d2	161	PHE	CD1-CG-CD2	-5.50	110.34	118.60
1	e4	141	ILE	CA-C-N	5.50	128.00	120.46
1	e4	141	ILE	C-N-CA	5.50	128.00	120.46
1	e5	36	VAL	CA-C-N	5.50	124.73	120.33
1	e5	36	VAL	C-N-CA	5.50	124.73	120.33
1	e6	73	ILE	CA-C-N	5.50	128.11	120.29
1	e6	73	ILE	C-N-CA	5.50	128.11	120.29
1	eL	63	GLN	CA-C-O	-5.50	114.72	120.55
1	fi	193	ASN	CA-CB-CG	-5.50	107.09	112.60
1	fB	86	VAL	O-C-N	-5.50	115.69	122.57
1	1y	20	LEU	CA-C-N	5.50	128.21	120.28
1	1y	20	LEU	C-N-CA	5.50	128.21	120.28
1	fF	52	LEU	CA-C-N	5.50	127.66	120.28
1	fF	52	LEU	C-N-CA	5.50	127.66	120.28
1	1z	62	HIS	CB-CG-ND1	-5.50	114.44	122.70
1	1z	82	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	s	146	SER	O-C-N	-5.50	116.83	121.12
1	C	229	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	E	206	GLY	CA-C-N	5.50	126.72	119.84
1	E	206	GLY	C-N-CA	5.50	126.72	119.84
1	I	173	ARG	CA-C-N	5.50	128.21	120.28
1	I	173	ARG	C-N-CA	5.50	128.21	120.28
1	W	159	GLU	CA-C-N	5.50	125.43	119.76
1	W	159	GLU	C-N-CA	5.50	125.43	119.76
1	gc	41	SER	CA-C-N	5.50	127.92	120.38
1	gc	41	SER	C-N-CA	5.50	127.92	120.38
1	1C	161	PHE	O-C-N	-5.50	116.29	122.12
1	gp	181	VAL	CA-C-N	5.50	128.20	120.28
1	gp	181	VAL	C-N-CA	5.50	128.20	120.28
1	gq	100	ARG	NE-CZ-NH2	5.50	124.15	119.20
1	gC	11	VAL	O-C-N	-5.50	117.24	123.18
1	gH	99	PRO	N-CA-CB	-5.50	98.41	103.31
1	gI	179	GLN	CB-CA-C	-5.50	101.60	110.74
1	h2	187	GLU	CB-CG-CD	5.50	121.96	112.60
1	h9	137	GLY	O-C-N	-5.50	116.91	122.19
1	hb	56	LEU	N-CA-CB	-5.50	102.03	110.12
1	1I	65	ALA	N-CA-C	5.50	117.72	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hx	113	GLU	CA-C-O	5.50	126.28	119.79
1	hI	138	LEU	CD1-CG-CD2	-5.50	98.69	110.80
1	hM	166	ASP	CB-CA-C	5.50	119.62	110.81
1	i5	62	HIS	CB-CG-CD2	-5.50	124.04	131.20
1	i8	12	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	ic	115	ILE	CA-C-O	-5.50	115.55	121.27
1	id	62	HIS	ND1-CG-CD2	5.50	111.60	106.10
1	il	36	VAL	N-CA-CB	5.50	116.99	110.55
1	1P	135	ILE	CA-C-O	5.50	126.67	120.95
1	iz	103	ASP	CA-CB-CG	-5.50	107.10	112.60
1	iB	85	PRO	N-CA-C	5.50	119.84	111.15
1	iQ	79	GLU	CA-C-O	-5.50	114.72	120.55
1	iU	143	ARG	N-CA-C	5.50	117.72	111.11
1	j6	86	VAL	N-CA-C	5.50	116.80	109.37
1	jz	163	ASP	N-CA-C	5.50	116.96	111.07
1	jE	148	THR	N-CA-C	5.50	118.21	110.23
1	jE	230	VAL	CB-CA-C	-5.50	105.54	111.59
1	1X	23	TRP	CB-CG-CD2	5.50	134.50	126.80
1	jL	131	LYS	CA-C-O	5.50	126.79	120.90
1	1Y	226	HIS	O-C-N	-5.50	115.98	122.58
1	jS	146	SER	CA-C-N	5.50	126.72	119.84
1	jS	146	SER	C-N-CA	5.50	126.72	119.84
1	kd	162	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	ki	96	MET	CG-SD-CE	-5.50	88.79	100.90
1	kk	42	ALA	CA-C-N	5.50	128.21	120.28
1	kk	42	ALA	C-N-CA	5.50	128.21	120.28
1	kn	131	LYS	N-CA-C	5.50	118.04	111.71
1	kq	44	SER	N-CA-C	5.50	119.30	112.59
1	ku	90	PRO	N-CA-CB	5.50	109.03	103.25
1	kw	193	ASN	N-CA-C	-5.50	106.15	112.92
1	kx	161	PHE	CA-C-N	5.50	127.66	120.28
1	kx	161	PHE	C-N-CA	5.50	127.66	120.28
1	23	161	PHE	N-CA-CB	-5.50	102.02	110.44
1	kG	226	HIS	O-C-N	-5.50	115.78	122.82
1	kN	217	ALA	N-CA-C	5.50	117.83	110.35
1	kQ	172	LEU	CA-C-N	5.50	127.66	120.28
1	kQ	172	LEU	C-N-CA	5.50	127.66	120.28
1	kR	163	ASP	CA-CB-CG	-5.50	107.10	112.60
1	kS	140	LYS	O-C-N	-5.50	115.88	122.15
1	l4	204	ALA	O-C-N	-5.50	114.87	122.46
1	l8	87	HIS	CB-CA-C	5.50	118.86	111.82
1	lg	180	GLU	N-CA-C	5.50	118.04	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	210	THR	CA-CB-CG2	5.50	119.86	110.50
1	lr	42	ALA	CA-C-O	-5.50	115.01	120.90
1	lC	144	MET	N-CA-C	5.50	116.96	111.07
1	lD	40	PHE	CA-CB-CG	-5.50	108.30	113.80
1	lO	190	LEU	CA-C-N	5.50	127.50	120.56
1	lO	190	LEU	C-N-CA	5.50	127.50	120.56
1	2u	164	TYR	CB-CA-C	5.50	119.52	110.88
1	2y	4	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	2F	36	VAL	CA-C-N	5.50	124.73	120.33
1	2F	36	VAL	C-N-CA	5.50	124.73	120.33
1	2F	196	PRO	CA-C-O	5.50	126.18	118.86
1	2H	227	LYS	CA-C-O	5.50	127.62	121.40
1	2Q	29	GLU	N-CA-C	5.50	118.46	111.69
1	2W	142	VAL	N-CA-CB	5.50	116.99	110.55
1	2Z	184	TRP	CA-C-O	5.50	126.32	120.10
1	3x	40	PHE	N-CA-CB	5.50	118.21	110.12
1	3G	72	THR	CA-C-O	5.50	126.60	120.82
1	3I	85	PRO	O-C-N	-5.50	115.21	122.64
1	3Q	21	ASN	CA-C-N	5.50	127.66	120.28
1	3Q	21	ASN	C-N-CA	5.50	127.66	120.28
1	46	58	THR	O-C-N	-5.50	115.06	122.43
1	4d	167	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	4p	68	MET	CA-C-N	5.50	127.65	120.28
1	4p	68	MET	C-N-CA	5.50	127.65	120.28
1	4u	225	GLY	O-C-N	-5.50	116.01	122.45
1	4G	155	GLN	OE1-CD-NE2	5.50	128.10	122.60
1	4V	227	LYS	CB-CA-C	5.50	121.37	110.42
1	50	226	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	5c	97	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	5e	193	ASN	CB-CG-ND2	-5.50	108.14	116.40
1	5g	122	PRO	N-CA-CB	5.50	108.65	102.60
1	5k	68	MET	CB-CA-C	-5.50	101.66	110.79
1	5k	164	TYR	CA-C-O	-5.50	114.69	120.63
1	5z	129	ILE	CA-C-O	5.50	126.69	120.85
1	5A	11	VAL	CA-C-N	5.50	131.45	122.81
1	5A	11	VAL	C-N-CA	5.50	131.45	122.81
1	5C	45	GLU	N-CA-CB	5.50	118.05	109.85
1	5D	79	GLU	N-CA-CB	-5.50	102.03	110.12
1	5J	72	THR	CA-C-N	5.50	128.29	120.53
1	5J	72	THR	C-N-CA	5.50	128.29	120.53
1	5R	93	PRO	O-C-N	-5.50	115.21	122.64
1	5T	156	GLY	O-C-N	5.50	127.27	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Y	112	GLN	CA-C-O	-5.50	114.59	120.42
1	61	18	ARG	N-CA-CB	5.50	118.21	110.12
1	6s	72	THR	CA-CB-OG1	-5.50	101.34	109.60
1	75	19	THR	O-C-N	-5.50	116.29	122.12
1	77	189	LEU	O-C-N	-5.50	115.50	122.27
1	7q	54	THR	O-C-N	-5.50	116.40	122.07
1	7t	174	ALA	CA-C-N	5.50	128.53	120.71
1	7t	174	ALA	C-N-CA	5.50	128.53	120.71
1	7y	172	LEU	N-CA-C	-5.50	106.06	112.89
1	7H	70	LYS	CA-C-N	5.50	127.97	120.54
1	7H	70	LYS	C-N-CA	5.50	127.97	120.54
1	84	132	ARG	CA-C-N	5.50	128.68	120.31
1	84	132	ARG	C-N-CA	5.50	128.68	120.31
1	86	47	ALA	O-C-N	-5.50	116.46	123.06
1	89	122	PRO	CA-C-N	5.50	125.50	119.89
1	89	122	PRO	C-N-CA	5.50	125.50	119.89
1	8a	133	TRP	CA-C-O	5.50	126.38	120.55
1	8h	73	ILE	CA-C-N	5.50	127.66	120.28
1	8h	73	ILE	C-N-CA	5.50	127.66	120.28
1	8B	33	SER	CA-C-N	5.50	125.33	119.28
1	8B	33	SER	C-N-CA	5.50	125.33	119.28
1	8M	9	GLN	CB-CA-C	5.50	119.28	109.65
1	8P	48	THR	N-CA-CB	5.50	118.34	110.03
1	8S	179	GLN	OE1-CD-NE2	5.50	128.10	122.60
1	9c	206	GLY	N-CA-C	5.50	123.57	112.34
1	9s	159	GLU	N-CA-C	5.50	121.97	109.81
1	9w	2	ILE	O-C-N	-5.50	117.24	123.18
1	9A	74	ASN	CA-C-N	5.50	127.65	120.28
1	9A	74	ASN	C-N-CA	5.50	127.65	120.28
1	9F	75	GLU	CA-C-O	5.50	126.57	120.63
1	9N	35	GLU	N-CA-CB	-5.50	101.51	110.42
1	9N	170	LYS	CA-C-N	5.50	127.66	120.28
1	9N	170	LYS	C-N-CA	5.50	127.66	120.28
1	9P	160	PRO	CA-C-N	5.50	127.92	120.44
1	9P	160	PRO	C-N-CA	5.50	127.92	120.44
1	9Z	33	SER	CA-C-N	5.50	126.72	119.84
1	9Z	33	SER	C-N-CA	5.50	126.72	119.84
1	Z	157	PRO	CA-C-N	-5.50	113.08	122.11
1	Z	157	PRO	C-N-CA	-5.50	113.08	122.11
1	a7	98	GLU	N-CA-C	5.50	117.59	109.50
1	ae	142	VAL	CA-C-N	5.50	127.59	120.44
1	ae	142	VAL	C-N-CA	5.50	127.59	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aj	132	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	ap	120	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	aJ	26	VAL	O-C-N	-5.50	114.84	122.05
1	aW	2	ILE	N-CA-C	5.50	116.02	107.99
1	15	58	THR	O-C-N	-5.50	115.78	122.22
1	bd	169	TYR	CA-C-N	5.50	127.65	120.28
1	bd	169	TYR	C-N-CA	5.50	127.65	120.28
1	bh	169	TYR	CA-C-O	5.50	126.32	120.10
1	bj	116	GLY	CA-C-N	5.50	128.11	120.29
1	bj	116	GLY	C-N-CA	5.50	128.11	120.29
1	bl	161	PHE	O-C-N	5.50	130.06	123.13
1	19	63	GLN	CA-C-N	5.50	128.10	120.29
1	19	63	GLN	C-N-CA	5.50	128.10	120.29
1	bD	3	VAL	N-CA-CB	5.50	119.38	110.13
1	bI	179	GLN	CG-CD-NE2	-5.50	108.15	116.40
1	bT	53	ASN	CA-C-O	-5.50	115.04	120.82
1	c2	40	PHE	N-CA-CB	5.50	118.21	110.12
1	c7	33	SER	N-CA-CB	-5.50	105.32	111.10
1	ct	174	ALA	N-CA-C	5.50	120.10	112.45
1	cw	208	ALA	N-CA-CB	-5.50	102.34	110.49
1	cC	119	THR	N-CA-CB	5.50	119.26	110.73
1	cE	216	THR	N-CA-C	-5.50	105.36	111.36
1	cJ	126	VAL	O-C-N	-5.50	116.31	121.87
1	cK	198	CYS	CA-C-N	5.50	128.10	120.29
1	cK	198	CYS	C-N-CA	5.50	128.10	120.29
1	cK	208	ALA	O-C-N	-5.50	115.70	122.25
1	1h	70	LYS	CA-C-N	5.50	127.59	120.44
1	1h	70	LYS	C-N-CA	5.50	127.59	120.44
1	cU	54	THR	N-CA-C	-5.50	105.38	111.71
1	cW	55	MET	N-CA-C	5.50	117.28	111.28
1	cW	84	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	cX	84	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	d0	33	SER	CA-C-O	-5.50	114.09	120.03
1	d1	41	SER	CA-C-N	5.50	127.66	120.28
1	d1	41	SER	C-N-CA	5.50	127.66	120.28
1	d5	229	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	d9	32	PHE	CA-CB-CG	-5.50	108.30	113.80
1	1j	182	LYS	CA-C-O	-5.50	115.04	120.82
1	dg	33	SER	CA-C-O	-5.50	114.47	120.69
1	dl	205	LEU	CA-C-N	5.50	130.51	121.87
1	dl	205	LEU	C-N-CA	5.50	130.51	121.87
1	do	219	GLN	CA-C-O	-5.50	114.89	121.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dq	185	MET	CG-SD-CE	-5.50	88.79	100.90
1	dB	79	GLU	N-CA-C	5.50	117.28	111.28
1	dC	206	GLY	CA-C-N	5.50	126.72	119.84
1	dC	206	GLY	C-N-CA	5.50	126.72	119.84
1	dQ	120	HIS	CA-C-O	-5.50	115.32	121.81
1	1n	136	LEU	CA-C-N	5.50	126.05	119.94
1	1n	136	LEU	C-N-CA	5.50	126.05	119.94
1	dV	229	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	1p	149	SER	O-C-N	-5.50	116.81	123.03
1	es	228	ALA	N-CA-C	5.50	117.39	110.24
1	eL	59	VAL	CB-CA-C	-5.50	103.10	111.69
1	eV	217	ALA	CA-C-N	5.50	130.77	122.68
1	eV	217	ALA	C-N-CA	5.50	130.77	122.68
1	f3	77	ALA	CA-C-N	5.50	128.10	120.29
1	f3	77	ALA	C-N-CA	5.50	128.10	120.29
1	f3	208	ALA	CA-C-N	5.50	130.14	121.56
1	f3	208	ALA	C-N-CA	5.50	130.14	121.56
1	f4	216	THR	N-CA-C	5.50	120.10	113.17
1	fe	89	GLY	CA-C-O	-5.50	113.65	121.52
1	fj	106	GLY	CA-C-N	5.50	132.05	121.54
1	fj	106	GLY	C-N-CA	5.50	132.05	121.54
1	fq	173	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	fv	141	ILE	O-C-N	5.50	127.30	121.91
1	fw	146	SER	CA-C-N	5.50	125.51	119.90
1	fw	146	SER	C-N-CA	5.50	125.51	119.90
1	fx	112	GLN	N-CA-C	5.50	117.71	111.11
1	fz	95	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	g0	12	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	g1	210	THR	CA-C-N	5.50	127.65	120.28
1	g1	210	THR	C-N-CA	5.50	127.65	120.28
1	c	56	LEU	N-CA-C	5.50	116.96	111.07
1	f	178	SER	N-CA-CB	5.50	118.78	110.42
1	p	221	VAL	O-C-N	-5.50	116.61	122.61
1	z	41	SER	N-CA-CB	-5.50	102.03	110.12
1	F	36	VAL	CA-C-O	5.50	126.41	120.47
1	5	162	ARG	NH1-CZ-NH2	-5.50	112.15	119.30
1	6	119	THR	CA-C-O	5.50	126.00	119.56
1	ge	112	GLN	N-CA-CB	5.50	118.69	110.22
1	1C	18	ARG	CA-C-N	5.50	127.65	120.28
1	1C	18	ARG	C-N-CA	5.50	127.65	120.28
1	1C	62	HIS	N-CA-C	5.50	119.02	111.54
1	gn	26	VAL	O-C-N	-5.50	116.52	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gp	186	THR	N-CA-C	5.50	116.96	111.07
1	gx	184	TRP	N-CA-C	5.50	117.36	111.36
1	gF	66	MET	N-CA-C	5.50	117.28	111.28
1	gL	162	ARG	CA-C-N	5.50	127.65	120.28
1	gL	162	ARG	C-N-CA	5.50	127.65	120.28
1	gY	180	GLU	CA-C-N	5.50	128.00	120.46
1	gY	180	GLU	C-N-CA	5.50	128.00	120.46
1	h9	40	PHE	CA-CB-CG	5.50	119.30	113.80
1	hc	162	ARG	CA-C-N	5.50	127.65	120.28
1	hc	162	ARG	C-N-CA	5.50	127.65	120.28
1	hC	181	VAL	CA-C-N	5.50	127.65	120.28
1	hC	181	VAL	C-N-CA	5.50	127.65	120.28
1	hC	200	THR	CA-C-N	5.50	127.49	120.56
1	hC	200	THR	C-N-CA	5.50	127.49	120.56
1	hE	81	ASP	O-C-N	-5.50	116.40	122.07
1	hL	123	PRO	CA-C-O	-5.50	115.04	122.08
1	hT	187	GLU	CB-CA-C	-5.50	101.50	110.85
1	hW	84	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	1O	111	LEU	CA-C-N	5.50	127.97	120.54
1	1O	111	LEU	C-N-CA	5.50	127.97	120.54
1	il	227	LYS	N-CA-C	5.50	118.21	110.23
1	im	174	ALA	CA-C-N	5.50	128.92	121.05
1	im	174	ALA	C-N-CA	5.50	128.92	121.05
1	io	203	LYS	CA-C-N	5.50	128.10	120.29
1	io	203	LYS	C-N-CA	5.50	128.10	120.29
1	iq	99	PRO	N-CA-C	5.50	119.50	111.03
1	it	188	THR	CA-C-N	5.50	127.65	120.28
1	it	188	THR	C-N-CA	5.50	127.65	120.28
1	iu	183	ASN	O-C-N	-5.50	116.29	122.12
1	iy	173	ARG	CD-NE-CZ	5.50	132.10	124.40
1	iJ	10	MET	N-CA-CB	5.50	118.37	110.06
1	iJ	117	TRP	N-CA-C	5.50	116.96	111.07
1	iY	116	GLY	CA-C-N	5.50	127.59	120.44
1	iY	116	GLY	C-N-CA	5.50	127.59	120.44
1	iY	156	GLY	CA-C-N	5.50	126.72	119.84
1	iY	156	GLY	C-N-CA	5.50	126.72	119.84
1	j9	83	LEU	N-CA-CB	5.50	118.14	109.94
1	jb	202	LEU	N-CA-CB	5.50	118.21	110.12
1	jc	93	PRO	CB-CA-C	5.50	120.64	111.56
1	jB	172	LEU	N-CA-C	5.50	117.28	111.28
1	jE	230	VAL	CA-CB-CG2	5.50	119.75	110.40
1	jF	63	GLN	N-CA-C	5.50	119.71	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jQ	32	PHE	N-CA-CB	5.50	117.24	110.53
1	jR	81	ASP	CA-CB-CG	-5.50	107.10	112.60
1	k7	48	THR	CA-C-O	-5.50	114.97	120.64
1	ki	58	THR	OG1-CB-CG2	-5.50	98.30	109.30
1	kj	11	VAL	N-CA-CB	5.50	120.46	111.44
1	kl	117	TRP	CD2-CE2-CZ2	5.50	127.90	122.40
1	ks	98	GLU	CA-C-N	5.50	125.70	120.31
1	ks	98	GLU	C-N-CA	5.50	125.70	120.31
1	kv	67	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	l2	191	VAL	CA-C-N	5.50	129.91	120.72
1	l2	191	VAL	C-N-CA	5.50	129.91	120.72
1	lb	33	SER	O-C-N	-5.50	114.90	121.39
1	le	143	ARG	N-CA-C	5.50	117.28	111.28
1	lj	18	ARG	CG-CD-NE	-5.50	99.90	112.00
1	lt	226	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	lM	170	LYS	N-CA-C	5.50	117.71	111.11
1	lO	27	VAL	N-CA-CB	5.50	118.02	110.54
1	lQ	193	ASN	CA-C-O	5.50	126.08	119.59
1	2i	132	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	2m	146	SER	O-C-N	-5.50	115.59	121.42
1	2r	39	MET	CA-C-N	5.50	128.44	120.79
1	2r	39	MET	C-N-CA	5.50	128.44	120.79
1	2J	167	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	34	134	ILE	O-C-N	5.50	127.30	121.91
1	3a	50	GLN	CA-C-N	5.50	127.59	120.44
1	3a	50	GLN	C-N-CA	5.50	127.59	120.44
1	3d	139	ASN	CB-CG-OD1	-5.50	109.80	120.80
1	3k	217	ALA	O-C-N	5.50	129.25	123.03
1	3v	32	PHE	CA-C-N	5.50	135.22	121.80
1	3v	32	PHE	C-N-CA	5.50	135.22	121.80
1	3v	110	THR	CA-C-N	5.50	127.59	120.44
1	3v	110	THR	C-N-CA	5.50	127.59	120.44
1	3B	146	SER	O-C-N	-5.50	116.02	121.19
1	3W	132	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	47	207	PRO	CA-C-O	-5.50	115.07	121.34
1	4e	83	LEU	CA-C-N	5.50	129.76	123.21
1	4e	83	LEU	C-N-CA	5.50	129.76	123.21
1	4f	203	LYS	N-CA-C	5.50	118.04	111.71
1	4g	226	HIS	CB-CA-C	-5.50	102.01	110.81
1	4k	133	TRP	CB-CG-CD2	-5.50	119.10	126.80
1	4s	189	LEU	CA-C-O	-5.50	115.01	120.90
1	4E	26	VAL	N-CA-CB	-5.50	103.06	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4H	184	TRP	CA-CB-CG	5.50	124.05	113.60
1	4X	194	ALA	N-CA-CB	5.50	118.13	110.04
1	52	199	LYS	N-CA-C	5.50	117.71	111.11
1	56	20	LEU	N-CA-C	5.50	117.28	111.28
1	5m	147	PRO	N-CA-CB	-5.50	97.47	103.25
1	5o	173	ARG	N-CA-C	5.50	117.28	111.28
1	5q	184	TRP	CB-CA-C	5.50	119.52	110.88
1	5q	190	LEU	O-C-N	-5.50	116.29	122.12
1	5v	227	LYS	CA-C-O	5.50	128.22	121.56
1	5N	23	TRP	N-CA-C	5.50	117.28	111.28
1	5W	226	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	6b	100	ARG	O-C-N	-5.50	116.78	122.94
1	6e	121	ASN	O-C-N	-5.50	114.99	121.32
1	6m	5	ASN	CA-C-N	5.50	128.10	120.29
1	6m	5	ASN	C-N-CA	5.50	128.10	120.29
1	6D	135	ILE	N-CA-C	5.50	117.97	111.09
1	6G	230	VAL	N-CA-CB	5.50	118.88	112.33
1	6H	124	ILE	N-CA-CB	5.50	118.01	111.08
1	6R	130	TYR	CA-C-N	5.50	128.10	120.29
1	6R	130	TYR	C-N-CA	5.50	128.10	120.29
1	6Y	104	ILE	O-C-N	-5.50	116.31	121.87
1	70	131	LYS	CA-C-N	5.50	127.59	120.44
1	70	131	LYS	C-N-CA	5.50	127.59	120.44
1	78	146	SER	N-CA-CB	5.50	118.96	110.43
1	7b	140	LYS	CA-C-O	5.50	126.13	119.31
1	7e	135	ILE	O-C-N	-5.50	116.52	121.91
1	7h	130	TYR	N-CA-C	5.50	117.71	111.11
1	7i	110	THR	CA-C-O	-5.50	115.49	121.87
1	7E	205	LEU	N-CA-C	5.50	117.71	111.11
1	7H	230	VAL	CA-CB-CG1	5.50	119.75	110.40
1	7Z	62	HIS	CA-CB-CG	5.50	119.30	113.80
1	89	214	MET	CA-C-N	5.50	129.91	120.72
1	89	214	MET	C-N-CA	5.50	129.91	120.72
1	8F	226	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	8H	146	SER	CA-C-N	5.50	126.72	119.84
1	8H	146	SER	C-N-CA	5.50	126.72	119.84
1	8Y	202	LEU	CA-C-O	5.50	127.12	121.07
1	91	61	GLY	CA-C-N	5.50	130.17	122.36
1	91	61	GLY	C-N-CA	5.50	130.17	122.36
1	99	138	LEU	CB-CA-C	-5.50	101.33	110.68
1	9g	41	SER	CA-C-N	5.50	127.59	120.44
1	9g	41	SER	C-N-CA	5.50	127.59	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	45	GLU	O-C-N	-5.50	116.13	122.95
1	9u	173	ARG	CB-CA-C	5.50	119.52	110.88
1	9z	198	CYS	N-CA-C	-5.50	105.36	113.61
1	9B	118	MET	CA-C-N	5.50	131.02	122.49
1	9B	118	MET	C-N-CA	5.50	131.02	122.49
1	9F	53	ASN	CA-C-N	5.50	127.65	120.28
1	9F	53	ASN	C-N-CA	5.50	127.65	120.28
1	9J	109	SER	O-C-N	-5.50	116.23	123.16
1	9M	26	VAL	CA-CB-CG1	5.50	119.75	110.40
1	Y	146	SER	N-CA-CB	5.50	119.58	109.73
1	9Z	138	LEU	CA-C-O	-5.50	114.04	120.20
1	a3	53	ASN	CA-C-N	5.50	127.59	120.44
1	a3	53	ASN	C-N-CA	5.50	127.59	120.44
1	11	162	ARG	CA-C-O	-5.50	114.72	120.55
1	aJ	181	VAL	CA-C-N	5.50	128.10	120.29
1	aJ	181	VAL	C-N-CA	5.50	128.10	120.29
1	aL	88	ALA	CA-C-O	5.50	126.45	120.95
1	b1	69	LEU	N-CA-CB	-5.50	102.03	110.12
1	b3	94	GLY	O-C-N	-5.50	115.55	122.70
1	b3	179	GLN	CA-C-O	5.50	126.15	119.38
1	bc	37	ILE	N-CA-CB	-5.50	106.16	110.45
1	bf	175	GLU	CA-C-N	5.50	131.62	122.54
1	bf	175	GLU	C-N-CA	5.50	131.62	122.54
1	bk	142	VAL	CA-C-O	5.50	126.99	121.27
1	br	126	VAL	CA-CB-CG2	5.50	119.75	110.40
1	bG	174	ALA	CA-C-N	5.50	128.52	120.71
1	bG	174	ALA	C-N-CA	5.50	128.52	120.71
1	bL	29	GLU	O-C-N	-5.50	115.88	122.15
1	bM	165	VAL	N-CA-C	-5.50	105.16	110.72
1	bT	23	TRP	CB-CG-CD1	-5.50	118.65	126.90
1	bV	39	MET	CA-C-O	-5.50	114.72	120.55
1	1b	28	GLU	O-C-N	-5.50	116.29	122.12
1	ca	41	SER	CA-C-N	5.50	128.10	120.29
1	ca	41	SER	C-N-CA	5.50	128.10	120.29
1	co	126	VAL	CA-C-O	-5.50	114.94	121.05
1	cC	229	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	cD	91	ILE	CA-C-O	5.50	127.41	121.36
1	cJ	66	MET	N-CA-C	5.50	118.46	111.69
1	cO	132	ARG	CA-C-N	5.50	127.92	120.44
1	cO	132	ARG	C-N-CA	5.50	127.92	120.44
1	cO	189	LEU	CA-C-O	5.50	126.25	120.42
1	cQ	111	LEU	CA-C-N	5.50	132.05	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	111	LEU	C-N-CA	5.50	132.05	121.54
1	cT	98	GLU	CA-C-N	5.50	125.77	119.83
1	cT	98	GLU	C-N-CA	5.50	125.77	119.83
1	cV	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	cW	221	VAL	CA-CB-CG2	5.50	119.75	110.40
1	cY	84	HIS	CB-CG-ND1	-5.50	114.45	122.70
1	d0	68	MET	CG-SD-CE	-5.50	88.80	100.90
1	d0	100	ARG	CA-C-N	5.50	126.09	119.98
1	d0	100	ARG	C-N-CA	5.50	126.09	119.98
1	d2	222	GLY	O-C-N	-5.50	116.87	122.70
1	d9	199	LYS	CA-C-N	5.50	127.97	120.54
1	d9	199	LYS	C-N-CA	5.50	127.97	120.54
1	1j	115	ILE	N-CA-C	5.50	116.89	110.62
1	dp	48	THR	N-CA-CB	5.50	118.14	110.11
1	dD	126	VAL	N-CA-C	5.50	116.23	110.62
1	dK	119	THR	N-CA-CB	5.50	118.63	110.49
1	e1	100	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	e7	74	ASN	CA-C-N	5.50	127.59	120.44
1	e7	74	ASN	C-N-CA	5.50	127.59	120.44
1	e8	225	GLY	CA-C-O	5.50	126.34	120.40
1	em	40	PHE	N-CA-C	-5.50	105.28	111.28
1	en	13	GLN	OE1-CD-NE2	5.50	128.10	122.60
1	eL	179	GLN	O-C-N	-5.50	116.29	122.12
1	f0	98	GLU	O-C-N	-5.50	116.63	121.31
1	f2	134	ILE	O-C-N	-5.50	116.53	121.87
1	f8	2	ILE	N-CA-C	5.50	116.77	108.96
1	fa	200	THR	CA-C-N	5.50	127.49	120.56
1	fa	200	THR	C-N-CA	5.50	127.49	120.56
1	ff	191	VAL	CA-C-N	5.50	128.10	120.29
1	ff	191	VAL	C-N-CA	5.50	128.10	120.29
1	fh	100	ARG	CA-C-N	-5.50	113.87	119.98
1	fh	100	ARG	C-N-CA	-5.50	113.87	119.98
1	fr	22	ALA	N-CA-C	5.50	117.28	111.28
1	fv	84	HIS	CA-C-O	5.50	125.56	120.50
1	fv	137	GLY	CA-C-O	5.50	126.49	120.66
1	fz	139	ASN	O-C-N	-5.50	116.29	122.12
1	fA	23	TRP	CB-CG-CD2	5.50	134.50	126.80
1	fK	130	TYR	CB-CG-CD1	5.50	129.05	120.80
1	1A	216	THR	N-CA-CB	5.50	118.31	110.06
1	fY	126	VAL	CA-C-N	5.50	126.09	119.98
1	fY	126	VAL	C-N-CA	5.50	126.09	119.98
1	g6	168	PHE	O-C-N	-5.50	115.88	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1B	226	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	s	42	ALA	N-CA-C	5.50	117.28	111.28
1	u	100	ARG	O-C-N	-5.50	116.46	122.84
1	u	143	ARG	NH1-CZ-NH2	-5.50	112.15	119.30
1	z	105	ALA	CA-C-O	5.50	125.94	119.28
1	E	66	MET	N-CA-C	5.50	117.28	111.28
1	F	133	TRP	CA-C-O	5.50	126.25	120.42
1	J	112	GLN	O-C-N	-5.50	116.29	122.12
1	J	119	THR	CA-C-O	5.50	125.97	119.48
1	K	187	GLU	N-CA-C	5.50	119.62	113.02
1	5	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	gs	140	LYS	O-C-N	-5.50	115.88	122.15
1	gy	181	VAL	CB-CA-C	-5.50	104.72	112.14
1	gB	62	HIS	CG-CD2-NE2	-5.50	101.70	107.20
1	gH	35	GLU	N-CA-CB	-5.50	101.17	110.41
1	gY	184	TRP	N-CA-C	5.50	117.98	111.33
1	hF	69	LEU	N-CA-C	5.50	116.95	111.07
1	ig	118	MET	CG-SD-CE	-5.50	88.80	100.90
1	1P	37	ILE	N-CA-C	5.50	118.95	112.35
1	ir	50	GLN	CB-CA-C	-5.50	102.25	110.88
1	iz	174	ALA	CA-C-O	5.50	126.00	119.67
1	iG	53	ASN	CA-CB-CG	5.50	118.10	112.60
1	jz	87	HIS	N-CA-CB	5.50	118.11	109.69
1	1Z	126	VAL	O-C-N	-5.50	116.50	121.89
1	1Z	151	LEU	CA-C-O	5.50	126.13	119.31
1	k4	200	THR	CA-C-N	5.50	127.69	120.60
1	k4	200	THR	C-N-CA	5.50	127.69	120.60
1	ko	110	THR	CA-C-N	5.50	127.65	120.28
1	ko	110	THR	C-N-CA	5.50	127.65	120.28
1	ky	120	HIS	CA-CB-CG	5.50	119.30	113.80
1	lf	84	HIS	CA-C-N	5.50	125.81	119.93
1	lf	84	HIS	C-N-CA	5.50	125.81	119.93
1	lC	133	TRP	N-CA-CB	5.50	118.31	110.06
1	lQ	183	ASN	N-CA-C	5.50	117.28	111.28
1	2b	62	HIS	ND1-CG-CD2	5.50	111.60	106.10
1	2f	212	GLU	N-CA-C	5.50	117.28	111.28
1	2L	18	ARG	CB-CG-CD	5.50	123.95	111.30
1	3g	156	GLY	CA-C-N	5.50	125.33	119.28
1	3g	156	GLY	C-N-CA	5.50	125.33	119.28
1	3r	143	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	3r	200	THR	N-CA-CB	5.50	118.20	110.12
1	3B	9	GLN	CA-C-N	5.50	128.57	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3B	9	GLN	C-N-CA	5.50	128.57	120.82
1	3R	176	GLN	CA-C-N	5.50	130.98	120.97
1	3R	176	GLN	C-N-CA	5.50	130.98	120.97
1	48	115	ILE	CB-CA-C	-5.50	104.63	112.22
1	4F	27	VAL	N-CA-C	5.50	116.28	110.72
1	4Z	165	VAL	O-C-N	-5.50	116.53	121.87
1	55	61	GLY	CA-C-N	5.50	132.05	121.54
1	55	61	GLY	C-N-CA	5.50	132.05	121.54
1	6y	230	VAL	N-CA-C	5.50	116.40	108.48
1	6W	97	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	70	120	HIS	N-CA-C	5.50	117.64	110.43
1	7a	28	GLU	N-CA-C	5.50	117.28	111.28
1	7c	62	HIS	CB-CG-CD2	5.50	138.35	131.20
1	7j	126	VAL	N-CA-C	5.50	117.92	111.05
1	7J	207	PRO	N-CA-CB	-5.50	97.47	103.25
1	7T	8	GLY	CA-C-N	5.50	128.57	120.82
1	7T	8	GLY	C-N-CA	5.50	128.57	120.82
1	8t	109	SER	CA-C-N	5.50	129.28	121.42
1	8t	109	SER	C-N-CA	5.50	129.28	121.42
1	8N	100	ARG	O-C-N	-5.50	114.79	121.83
1	98	52	LEU	O-C-N	-5.50	116.29	122.12
1	9c	58	THR	N-CA-C	-5.50	106.61	113.38
1	9j	200	THR	CA-CB-CG2	5.50	119.85	110.50
1	a4	71	GLU	O-C-N	-5.50	115.88	122.15
1	a5	199	LYS	CA-C-N	5.50	127.59	120.44
1	a5	199	LYS	C-N-CA	5.50	127.59	120.44
1	aa	78	ALA	N-CA-C	5.50	116.95	111.07
1	b1	174	ALA	CB-CA-C	5.50	119.42	110.24
1	bz	178	SER	CA-C-O	5.50	128.25	122.03
1	bC	40	PHE	O-C-N	-5.50	115.88	122.15
1	c3	11	VAL	N-CA-C	5.50	117.72	108.81
1	c9	226	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	cN	61	GLY	CA-C-N	5.50	130.22	122.46
1	cN	61	GLY	C-N-CA	5.50	130.22	122.46
1	dc	67	GLN	CA-C-N	5.50	127.97	120.54
1	dc	67	GLN	C-N-CA	5.50	127.97	120.54
1	dg	184	TRP	N-CA-C	5.50	119.25	112.54
1	dj	50	GLN	O-C-N	-5.50	116.29	122.12
1	dq	151	LEU	O-C-N	-5.50	115.50	122.27
1	ds	55	MET	N-CA-C	5.50	116.95	111.07
1	dC	146	SER	CA-C-N	5.50	126.72	119.84
1	dC	146	SER	C-N-CA	5.50	126.72	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dF	11	VAL	O-C-N	-5.50	117.25	123.03
1	dK	45	GLU	N-CA-C	5.50	117.98	111.33
1	ei	196	PRO	CA-C-N	5.50	127.59	120.44
1	ei	196	PRO	C-N-CA	5.50	127.59	120.44
1	el	188	THR	O-C-N	-5.50	115.73	122.11
1	er	124	ILE	CA-CB-CG1	5.50	119.75	110.40
1	eK	218	CYS	N-CA-CB	5.50	119.79	110.49
1	1w	117	TRP	O-C-N	5.50	127.95	122.12
1	fp	213	GLU	CB-CA-C	-5.50	102.01	110.81
1	fy	84	HIS	CB-CA-C	-5.50	102.30	110.71
1	fJ	52	LEU	N-CA-CB	5.50	118.30	110.16
1	C	14	ALA	N-CA-C	5.50	117.64	110.43
1	K	31	ALA	O-C-N	-5.50	115.78	122.22
1	V	71	GLU	CB-CA-C	-5.50	102.21	110.90
1	gi	171	THR	CA-C-N	5.50	128.20	120.28
1	gi	171	THR	C-N-CA	5.50	128.20	120.28
1	gm	144	MET	CA-C-N	-5.50	113.85	122.65
1	gm	144	MET	C-N-CA	-5.50	113.85	122.65
1	gm	161	PHE	CB-CA-C	5.50	119.92	110.79
1	go	204	ALA	N-CA-C	5.50	117.27	111.28
1	gq	104	ILE	CA-C-N	5.50	128.67	120.31
1	gq	104	ILE	C-N-CA	5.50	128.67	120.31
1	gs	127	GLY	CA-C-O	5.50	126.49	120.66
1	gA	55	MET	O-C-N	-5.50	116.41	122.07
1	gC	179	GLN	CG-CD-OE1	5.50	131.80	120.80
1	gE	134	ILE	N-CA-C	-5.50	105.01	110.62
1	gF	120	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	gI	54	THR	N-CA-C	5.50	117.27	111.28
1	gM	166	ASP	N-CA-C	5.50	116.95	111.07
1	gX	169	TYR	N-CA-C	5.50	119.71	112.89
1	gZ	86	VAL	CA-C-N	5.50	129.16	121.02
1	gZ	86	VAL	C-N-CA	5.50	129.16	121.02
1	gZ	164	TYR	N-CA-CB	-5.50	102.04	110.01
1	h6	18	ARG	CA-C-N	5.50	127.65	120.28
1	h6	18	ARG	C-N-CA	5.50	127.65	120.28
1	h7	59	VAL	CA-CB-CG1	-5.50	101.05	110.40
1	h8	188	THR	CA-CB-OG1	5.50	117.85	109.60
1	he	52	LEU	CA-C-N	5.50	127.65	120.28
1	he	52	LEU	C-N-CA	5.50	127.65	120.28
1	hn	230	VAL	CA-C-N	5.50	131.60	121.70
1	hn	230	VAL	C-N-CA	5.50	131.60	121.70
1	ho	77	ALA	O-C-N	-5.50	116.29	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1J	136	LEU	N-CA-C	5.50	117.71	111.11
1	1J	199	LYS	CA-C-N	5.50	128.10	120.29
1	1J	199	LYS	C-N-CA	5.50	128.10	120.29
1	hq	100	ARG	CA-C-N	5.50	126.08	119.98
1	hq	100	ARG	C-N-CA	5.50	126.08	119.98
1	ht	84	HIS	CA-CB-CG	5.50	119.30	113.80
1	hE	58	THR	N-CA-C	-5.50	106.34	113.16
1	hZ	101	GLY	CA-C-N	5.50	129.90	120.72
1	hZ	101	GLY	C-N-CA	5.50	129.90	120.72
1	1N	204	ALA	N-CA-CB	5.50	118.20	110.12
1	i6	198	CYS	N-CA-C	5.50	117.35	111.36
1	i7	183	ASN	CA-CB-CG	5.50	118.10	112.60
1	ig	140	LYS	O-C-N	-5.50	116.29	122.12
1	ij	132	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	iA	223	GLY	CA-C-O	-5.50	113.66	121.52
1	iC	58	THR	O-C-N	-5.50	115.79	122.22
1	iF	92	GLU	N-CA-CB	-5.50	101.73	110.03
1	iQ	51	ASP	CB-CA-C	-5.50	102.25	110.88
1	j1	185	MET	N-CA-C	5.50	117.35	111.36
1	1T	113	GLU	CA-CB-CG	5.50	125.10	114.10
1	j4	42	ALA	N-CA-CB	-5.50	102.04	110.12
1	j9	144	MET	CG-SD-CE	-5.50	88.80	100.90
1	jc	214	MET	CB-CA-C	5.50	119.51	110.88
1	jg	152	ASP	CA-C-N	5.50	127.87	120.50
1	jg	152	ASP	C-N-CA	5.50	127.87	120.50
1	jk	229	ARG	N-CA-C	5.50	119.73	113.19
1	jl	87	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	jt	125	PRO	CA-C-N	5.50	128.28	120.53
1	jt	125	PRO	C-N-CA	5.50	128.28	120.53
1	jN	12	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	jQ	220	GLY	O-C-N	-5.50	115.55	122.70
1	jV	29	GLU	N-CA-CB	-5.50	101.16	110.51
1	k0	88	ALA	CA-C-N	5.50	130.50	121.87
1	k0	88	ALA	C-N-CA	5.50	130.50	121.87
1	k9	40	PHE	CA-CB-CG	-5.50	108.30	113.80
1	kc	197	ASP	CA-C-O	5.50	126.25	120.42
1	kd	62	HIS	ND1-CG-CD2	5.50	111.60	106.10
1	kf	115	ILE	CA-C-O	5.50	126.68	120.85
1	kk	41	SER	N-CA-C	5.50	116.95	111.07
1	kz	134	ILE	N-CA-C	5.50	115.63	110.30
1	kD	83	LEU	O-C-N	-5.50	114.55	122.03
1	24	200	THR	OG1-CB-CG2	-5.50	98.30	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kP	226	HIS	N-CA-C	5.50	118.92	111.17
1	kX	63	GLN	CA-C-O	-5.50	113.65	119.97
1	l0	207	PRO	CA-C-O	-5.50	112.27	118.98
1	l5	80	TRP	CA-CB-CG	5.50	124.05	113.60
1	l7	12	HIS	O-C-N	-5.50	116.78	123.10
1	l7	111	LEU	O-C-N	-5.50	116.29	122.12
1	le	201	ILE	CA-C-N	5.50	127.65	120.28
1	le	201	ILE	C-N-CA	5.50	127.65	120.28
1	27	82	ARG	CG-CD-NE	-5.50	99.90	112.00
1	lo	207	PRO	N-CA-C	-5.50	108.96	114.68
1	ly	67	GLN	CB-CA-C	-5.50	102.25	110.88
1	2b	122	PRO	CA-C-N	5.50	125.47	120.03
1	2b	122	PRO	C-N-CA	5.50	125.47	120.03
1	2d	163	ASP	N-CA-C	5.50	117.27	111.28
1	2k	173	ARG	NE-CZ-NH2	5.50	124.15	119.20
1	2n	113	GLU	CA-C-N	5.50	127.59	120.44
1	2n	113	GLU	C-N-CA	5.50	127.59	120.44
1	2r	100	ARG	N-CA-C	-5.50	101.90	110.42
1	2v	73	ILE	CA-C-N	5.50	128.10	120.29
1	2v	73	ILE	C-N-CA	5.50	128.10	120.29
1	2x	117	TRP	CA-C-O	5.50	126.59	120.82
1	2B	134	ILE	O-C-N	-5.50	116.52	121.91
1	2H	123	PRO	CA-C-O	-5.50	115.08	121.95
1	2H	140	LYS	CA-C-N	5.50	127.99	120.46
1	2H	140	LYS	C-N-CA	5.50	127.99	120.46
1	2I	107	THR	N-CA-C	5.50	117.27	111.28
1	2P	116	GLY	O-C-N	-5.50	115.55	122.70
1	2Q	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	2T	205	LEU	CB-CA-C	-5.50	102.21	110.90
1	2W	201	ILE	CA-CB-CG2	5.50	119.85	110.50
1	31	157	PRO	N-CA-CB	-5.50	97.98	103.20
1	3e	201	ILE	N-CA-C	5.50	116.23	110.62
1	3g	226	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	3Q	215	MET	N-CA-C	5.50	117.98	111.33
1	3T	145	TYR	CA-C-N	5.50	135.22	121.80
1	3T	145	TYR	C-N-CA	5.50	135.22	121.80
1	4b	51	ASP	CA-CB-CG	5.50	118.10	112.60
1	4h	146	SER	CA-C-O	-5.50	112.63	120.16
1	4i	39	MET	CA-C-N	5.50	127.96	120.54
1	4i	39	MET	C-N-CA	5.50	127.96	120.54
1	4I	179	GLN	CA-C-N	5.50	127.65	120.28
1	4I	179	GLN	C-N-CA	5.50	127.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4K	4	GLN	CG-CD-NE2	5.50	124.65	116.40
1	4K	185	MET	N-CA-C	5.50	117.27	111.28
1	4L	27	VAL	CA-C-N	5.50	127.59	120.44
1	4L	27	VAL	C-N-CA	5.50	127.59	120.44
1	4P	218	CYS	O-C-N	-5.50	116.46	122.67
1	4S	169	TYR	CB-CG-CD1	5.50	129.05	120.80
1	5s	57	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	5u	88	ALA	CA-C-O	5.50	126.14	119.38
1	5C	65	ALA	CA-C-N	5.50	127.65	120.28
1	5C	65	ALA	C-N-CA	5.50	127.65	120.28
1	5F	153	ILE	O-C-N	-5.50	115.95	122.77
1	5L	57	ASN	CA-C-N	5.50	128.20	120.28
1	5L	57	ASN	C-N-CA	5.50	128.20	120.28
1	5N	205	LEU	CA-C-O	-5.50	114.72	120.55
1	65	12	HIS	CB-CG-CD2	-5.50	124.05	131.20
1	6n	115	ILE	O-C-N	-5.50	114.85	122.05
1	6p	18	ARG	CA-C-N	5.50	127.92	120.44
1	6p	18	ARG	C-N-CA	5.50	127.92	120.44
1	6p	112	GLN	N-CA-CB	5.50	118.80	110.28
1	6r	87	HIS	O-C-N	-5.50	115.47	122.34
1	6z	137	GLY	CA-C-O	5.50	126.94	121.00
1	6A	209	ALA	N-CA-CB	-5.50	101.53	109.83
1	6D	86	VAL	N-CA-C	5.50	115.24	106.88
1	77	34	PRO	N-CA-CB	-5.50	97.98	103.48
1	7u	18	ARG	NH1-CZ-NH2	-5.50	112.15	119.30
1	7u	82	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	7x	221	VAL	CA-C-N	5.50	128.67	121.85
1	7x	221	VAL	C-N-CA	5.50	128.67	121.85
1	7B	222	GLY	CA-C-O	5.50	130.14	120.57
1	7P	205	LEU	N-CA-C	5.50	117.27	111.28
1	8A	84	HIS	CA-CB-CG	-5.50	108.30	113.80
1	8E	13	GLN	O-C-N	-5.50	116.68	123.33
1	8F	10	MET	CA-C-N	5.50	129.86	122.93
1	8F	10	MET	C-N-CA	5.50	129.86	122.93
1	8V	156	GLY	CA-C-O	-5.50	113.66	121.52
1	8W	181	VAL	CA-C-O	-5.50	115.34	121.17
1	96	71	GLU	CB-CA-C	5.50	119.92	110.79
1	96	206	GLY	CA-C-N	5.50	125.11	119.56
1	96	206	GLY	C-N-CA	5.50	125.11	119.56
1	9j	84	HIS	CA-C-N	5.50	126.71	119.84
1	9j	84	HIS	C-N-CA	5.50	126.71	119.84
1	9q	126	VAL	CB-CA-C	5.50	119.01	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9w	35	GLU	CA-C-O	5.50	126.14	119.38
1	9y	195	ASN	CA-C-N	5.50	126.71	119.84
1	9y	195	ASN	C-N-CA	5.50	126.71	119.84
1	9L	209	ALA	O-C-N	-5.50	116.26	122.97
1	9R	39	MET	CG-SD-CE	-5.50	88.80	100.90
1	a9	198	CYS	N-CA-C	5.50	117.27	111.28
1	aj	197	ASP	CA-C-N	5.50	127.59	120.44
1	aj	197	ASP	C-N-CA	5.50	127.59	120.44
1	ax	20	LEU	N-CA-C	5.50	116.95	111.07
1	az	33	SER	CA-C-N	5.50	125.85	119.47
1	az	33	SER	C-N-CA	5.50	125.85	119.47
1	aA	131	LYS	N-CA-CB	5.50	118.20	110.12
1	aH	10	MET	CA-C-O	5.50	127.38	121.55
1	aL	214	MET	N-CA-CB	5.50	118.30	110.16
1	aT	161	PHE	CA-CB-CG	-5.50	108.30	113.80
1	ba	120	HIS	CA-CB-CG	-5.50	108.30	113.80
1	bg	17	PRO	N-CA-C	-5.50	106.37	113.57
1	17	229	ARG	CB-CG-CD	5.50	123.94	111.30
1	bi	132	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	bp	77	ALA	CA-C-N	5.50	127.96	120.54
1	bp	77	ALA	C-N-CA	5.50	127.96	120.54
1	bq	3	VAL	N-CA-C	5.50	116.79	109.37
1	br	46	GLY	CA-C-O	5.50	126.09	119.82
1	bz	147	PRO	CA-C-N	5.50	130.16	120.87
1	bz	147	PRO	C-N-CA	5.50	130.16	120.87
1	bH	197	ASP	CA-CB-CG	-5.50	107.10	112.60
1	1a	19	THR	N-CA-C	5.50	117.27	111.28
1	bQ	53	ASN	O-C-N	-5.50	115.79	122.22
1	bQ	221	VAL	O-C-N	-5.50	115.70	122.57
1	bR	69	LEU	N-CA-CB	-5.50	102.04	110.01
1	bW	186	THR	CA-C-O	5.50	126.59	120.82
1	c2	48	THR	CA-C-N	5.50	125.85	119.47
1	c2	48	THR	C-N-CA	5.50	125.85	119.47
1	c3	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	1c	111	LEU	N-CA-C	5.50	116.95	111.07
1	ce	22	ALA	CA-C-N	5.50	129.35	121.71
1	ce	22	ALA	C-N-CA	5.50	129.35	121.71
1	cj	98	GLU	O-C-N	-5.50	115.78	121.28
1	cG	130	TYR	CA-C-N	5.50	127.59	120.44
1	cG	130	TYR	C-N-CA	5.50	127.59	120.44
1	cK	121	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	d1	226	HIS	ND1-CE1-NE2	5.50	113.90	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	224	PRO	CA-C-N	5.50	126.19	120.03
1	d4	224	PRO	C-N-CA	5.50	126.19	120.03
1	d5	82	ARG	NH1-CZ-NH2	-5.50	112.15	119.30
1	d8	114	GLN	CA-C-N	5.50	127.99	120.46
1	d8	114	GLN	C-N-CA	5.50	127.99	120.46
1	dc	182	LYS	N-CA-CB	5.50	117.98	110.01
1	dj	107	THR	N-CA-C	-5.50	106.41	113.23
1	dq	129	ILE	CB-CA-C	5.50	119.81	112.22
1	dE	68	MET	CG-SD-CE	-5.50	88.80	100.90
1	dL	113	GLU	CA-C-N	5.50	127.96	120.54
1	dL	113	GLU	C-N-CA	5.50	127.96	120.54
1	dL	203	LYS	O-C-N	-5.50	113.88	122.13
1	dQ	118	MET	CA-C-N	5.50	131.41	122.67
1	dQ	118	MET	C-N-CA	5.50	131.41	122.67
1	ec	101	GLY	O-C-N	-5.50	116.91	122.19
1	ej	71	GLU	CA-C-N	5.50	127.59	120.44
1	ej	71	GLU	C-N-CA	5.50	127.59	120.44
1	ej	207	PRO	CA-C-N	5.50	129.41	120.23
1	ej	207	PRO	C-N-CA	5.50	129.41	120.23
1	eu	64	ALA	N-CA-C	5.50	117.08	111.14
1	1s	200	THR	CA-C-O	-5.50	115.04	120.70
1	eH	71	GLU	CA-CB-CG	5.50	125.10	114.10
1	eH	98	GLU	CA-C-O	5.50	126.19	120.25
1	fp	45	GLU	CB-CG-CD	5.50	121.95	112.60
1	fz	124	ILE	O-C-N	-5.50	117.17	121.46
1	1y	10	MET	N-CA-C	5.50	118.05	110.35
1	fL	149	SER	N-CA-C	5.50	122.51	110.80
1	fU	33	SER	CB-CA-C	-5.50	102.98	109.47
1	g0	25	LYS	O-C-N	-5.50	116.41	122.07
1	b	149	SER	O-C-N	-5.50	116.81	123.13
1	i	139	ASN	N-CA-C	5.50	116.95	111.07
1	o	139	ASN	CA-C-N	5.50	127.65	120.28
1	o	139	ASN	C-N-CA	5.50	127.65	120.28
1	r	212	GLU	O-C-N	-5.50	116.29	122.12
1	u	12	HIS	CA-C-O	5.50	126.75	120.54
1	y	54	THR	O-C-N	5.50	128.03	122.09
1	F	226	HIS	CA-C-O	-5.50	114.74	121.28
1	H	117	TRP	CB-CA-C	-5.50	102.25	110.88
1	N	36	VAL	N-CA-C	5.50	116.89	110.62
1	V	219	GLN	CA-C-O	5.50	126.74	120.80
1	X	65	ALA	O-C-N	-5.50	116.41	122.07
1	g9	154	ARG	NH1-CZ-NH2	-5.50	112.15	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	195	ASN	CB-CA-C	5.50	118.12	109.27
1	gh	151	LEU	O-C-N	5.50	129.21	122.34
1	gi	80	TRP	CB-CG-CD1	5.50	135.15	126.90
1	gk	97	ARG	N-CA-CB	5.50	120.08	111.56
1	gv	196	PRO	CA-C-O	-5.50	111.26	119.34
1	gw	11	VAL	CA-C-N	5.50	128.91	121.05
1	gw	11	VAL	C-N-CA	5.50	128.91	121.05
1	gC	36	VAL	CA-C-N	5.50	124.73	120.33
1	gC	36	VAL	C-N-CA	5.50	124.73	120.33
1	gH	92	GLU	CA-C-O	5.50	124.72	119.72
1	gM	204	ALA	O-C-N	-5.50	115.51	122.27
1	gR	222	GLY	O-C-N	-5.50	115.56	122.70
1	gT	231	LEU	N-CA-CB	5.50	119.84	110.50
1	h9	208	ALA	CB-CA-C	5.50	121.48	109.99
1	he	197	ASP	CA-C-O	-5.50	115.23	121.00
1	hp	147	PRO	N-CA-C	-5.50	105.41	114.75
1	ht	182	LYS	N-CA-C	5.50	117.27	111.28
1	hv	89	GLY	CA-C-O	-5.50	113.66	121.52
1	hA	168	PHE	N-CA-C	5.50	117.71	111.11
1	hF	62	HIS	CA-CB-CG	-5.50	108.30	113.80
1	hH	134	ILE	CA-C-N	5.50	128.23	120.42
1	hH	134	ILE	C-N-CA	5.50	128.23	120.42
1	hK	179	GLN	CA-C-N	5.50	127.92	120.44
1	hK	179	GLN	C-N-CA	5.50	127.92	120.44
1	hN	115	ILE	CB-CA-C	-5.50	104.84	111.88
1	hX	77	ALA	N-CA-C	5.50	117.98	111.33
1	ij	35	GLU	CA-C-O	5.50	125.78	119.35
1	ik	173	ARG	CA-C-O	5.50	126.38	120.55
1	il	229	ARG	NH1-CZ-NH2	-5.50	112.16	119.30
1	iq	113	GLU	CA-C-N	5.50	127.64	120.28
1	iq	113	GLU	C-N-CA	5.50	127.64	120.28
1	ir	124	ILE	O-C-N	-5.50	116.01	121.12
1	ix	143	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	iy	179	GLN	CA-C-N	5.50	128.66	120.31
1	iy	179	GLN	C-N-CA	5.50	128.66	120.31
1	iy	183	ASN	N-CA-C	5.50	117.27	111.28
1	iz	112	GLN	N-CA-C	5.50	117.27	111.28
1	iF	179	GLN	CA-C-N	5.50	127.96	120.54
1	iF	179	GLN	C-N-CA	5.50	127.96	120.54
1	iR	153	ILE	CA-C-O	-5.50	116.08	121.58
1	iR	167	ARG	NH1-CZ-NH2	-5.50	112.16	119.30
1	iY	12	HIS	CA-C-O	5.50	126.90	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1T	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	j5	103	ASP	CA-C-N	5.50	128.28	120.53
1	j5	103	ASP	C-N-CA	5.50	128.28	120.53
1	ja	91	ILE	O-C-N	-5.50	117.37	123.03
1	jh	76	GLU	CA-C-O	5.50	126.25	120.42
1	jl	132	ARG	CA-C-O	5.50	126.57	120.63
1	jp	54	THR	CA-CB-CG2	5.50	119.84	110.50
1	jS	161	PHE	CA-C-N	5.50	127.59	120.44
1	jS	161	PHE	C-N-CA	5.50	127.59	120.44
1	1Z	43	LEU	CA-C-O	5.50	125.70	119.27
1	1Z	193	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	20	168	PHE	N-CA-C	-5.50	105.19	111.07
1	kl	211	LEU	O-C-N	-5.50	116.29	122.12
1	ko	43	LEU	N-CA-CB	-5.50	101.76	110.28
1	kD	7	GLN	N-CA-C	-5.50	101.16	109.85
1	kO	153	ILE	O-C-N	5.50	129.65	122.94
1	kQ	100	ARG	CD-NE-CZ	5.50	132.09	124.40
1	kZ	66	MET	O-C-N	-5.50	115.88	122.15
1	l0	120	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	l2	80	TRP	CG-CD2-CE3	-5.50	128.40	133.90
1	l5	23	TRP	CA-C-N	5.50	127.99	120.46
1	l5	23	TRP	C-N-CA	5.50	127.99	120.46
1	li	180	GLU	CA-C-N	5.50	128.22	120.42
1	li	180	GLU	C-N-CA	5.50	128.22	120.42
1	lk	102	SER	CA-C-N	5.50	127.92	120.44
1	lk	102	SER	C-N-CA	5.50	127.92	120.44
1	ll	141	ILE	CB-CG1-CD1	5.50	125.34	113.80
1	lr	20	LEU	N-CA-C	5.50	117.27	111.28
1	lB	5	ASN	CA-C-O	5.50	127.95	121.36
1	lE	15	ILE	CA-C-O	5.50	127.25	121.59
1	lG	94	GLY	N-CA-C	5.50	122.67	115.47
1	lK	139	ASN	N-CA-C	5.50	117.35	111.36
1	lM	86	VAL	CA-C-O	5.50	126.99	120.72
1	2i	27	VAL	N-CA-CB	5.50	116.98	110.55
1	2k	84	HIS	CA-CB-CG	-5.50	108.30	113.80
1	2w	99	PRO	CA-C-N	5.50	133.21	121.45
1	2w	99	PRO	C-N-CA	5.50	133.21	121.45
1	2x	199	LYS	N-CA-CB	-5.50	102.04	110.12
1	37	110	THR	CA-C-N	5.50	128.20	120.28
1	37	110	THR	C-N-CA	5.50	128.20	120.28
1	3j	39	MET	CA-C-N	5.50	127.96	120.54
1	3j	39	MET	C-N-CA	5.50	127.96	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3o	42	ALA	O-C-N	-5.50	116.29	122.12
1	47	147	PRO	CA-C-N	5.50	130.00	121.26
1	47	147	PRO	C-N-CA	5.50	130.00	121.26
1	4m	219	GLN	O-C-N	-5.50	116.01	123.10
1	4q	170	LYS	O-C-N	5.50	127.73	122.07
1	4x	27	VAL	N-CA-C	5.50	116.23	110.62
1	51	95	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	53	121	ASN	CB-CG-ND2	-5.50	108.16	116.40
1	5i	48	THR	CA-C-O	-5.50	115.65	120.60
1	5i	171	THR	CA-C-N	5.50	127.64	120.28
1	5i	171	THR	C-N-CA	5.50	127.64	120.28
1	5w	149	SER	CA-CB-OG	5.50	122.09	111.10
1	5G	8	GLY	N-CA-C	5.50	119.58	112.54
1	5G	39	MET	N-CA-C	5.50	117.35	111.36
1	5S	45	GLU	O-C-N	-5.50	116.17	122.93
1	60	134	ILE	CB-CA-C	5.50	119.24	112.04
1	62	20	LEU	N-CA-CB	5.50	118.04	110.07
1	6e	84	HIS	O-C-N	-5.50	116.02	121.19
1	6i	56	LEU	N-CA-CB	5.50	118.77	110.30
1	6t	170	LYS	O-C-N	-5.50	115.88	122.15
1	6G	128	GLU	CA-C-N	5.50	127.48	120.56
1	6G	128	GLU	C-N-CA	5.50	127.48	120.56
1	6K	2	ILE	CB-CA-C	-5.50	103.68	111.21
1	6M	27	VAL	CA-CB-CG2	-5.50	101.06	110.40
1	74	120	HIS	CA-CB-CG	5.50	119.30	113.80
1	7G	64	ALA	CA-C-N	5.50	127.65	120.28
1	7G	64	ALA	C-N-CA	5.50	127.65	120.28
1	7P	61	GLY	N-CA-C	5.50	118.25	111.93
1	7T	95	GLN	CB-CG-CD	5.50	121.94	112.60
1	7Y	97	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	7Y	121	ASN	CA-CB-CG	-5.50	107.10	112.60
1	8j	144	MET	N-CA-C	5.50	118.20	111.82
1	8s	39	MET	CG-SD-CE	-5.50	88.81	100.90
1	8s	69	LEU	CA-C-N	5.50	128.09	120.29
1	8s	69	LEU	C-N-CA	5.50	128.09	120.29
1	8v	206	GLY	N-CA-C	5.50	123.55	112.34
1	8x	188	THR	CA-C-O	5.50	124.73	118.47
1	8x	195	ASN	CA-CB-CG	5.50	118.10	112.60
1	8C	40	PHE	CA-C-N	5.50	127.58	120.44
1	8C	40	PHE	C-N-CA	5.50	127.58	120.44
1	8F	138	LEU	CA-C-N	5.50	127.65	120.28
1	8F	138	LEU	C-N-CA	5.50	127.65	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	176	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	8U	192	GLN	OE1-CD-NE2	-5.50	117.10	122.60
1	9f	155	GLN	CB-CA-C	5.50	118.47	109.90
1	9j	31	ALA	N-CA-C	5.50	119.43	109.32
1	9j	189	LEU	N-CA-C	5.50	117.27	111.28
1	9u	161	PHE	CA-C-N	5.50	127.96	120.54
1	9u	161	PHE	C-N-CA	5.50	127.96	120.54
1	9z	40	PHE	O-C-N	-5.50	116.41	122.07
1	9B	14	ALA	O-C-N	-5.50	116.05	122.81
1	9G	1	PRO	CB-CA-C	5.50	120.55	110.10
1	9H	154	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	9K	13	GLN	N-CA-C	5.50	118.20	110.23
1	9P	12	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	Z	162	ARG	CA-C-N	5.50	127.64	120.28
1	Z	162	ARG	C-N-CA	5.50	127.64	120.28
1	a8	54	THR	N-CA-CB	5.50	118.20	110.12
1	am	202	LEU	N-CA-C	5.50	116.95	111.07
1	aq	12	HIS	O-C-N	-5.50	116.76	123.30
1	aC	137	GLY	CA-C-N	5.50	127.65	120.28
1	aC	137	GLY	C-N-CA	5.50	127.65	120.28
1	aE	17	PRO	O-C-N	5.50	129.69	122.27
1	aJ	37	ILE	CB-CA-C	-5.50	108.48	113.70
1	aP	161	PHE	CA-C-O	5.50	128.37	120.51
1	aR	73	ILE	CA-C-N	5.50	127.65	120.28
1	aR	73	ILE	C-N-CA	5.50	127.65	120.28
1	aV	81	ASP	CA-C-O	5.50	126.25	120.42
1	b1	177	ALA	N-CA-C	5.50	117.62	108.99
1	b3	217	ALA	CA-C-N	5.50	132.04	121.54
1	b3	217	ALA	C-N-CA	5.50	132.04	121.54
1	b5	17	PRO	O-C-N	5.50	128.83	122.23
1	16	185	MET	N-CA-C	5.50	119.25	112.54
1	bn	230	VAL	O-C-N	-5.50	117.32	123.26
1	bp	158	LYS	CA-C-O	-5.50	113.10	119.59
1	bE	35	GLU	N-CA-C	5.50	119.09	112.38
1	bF	112	GLN	N-CA-C	5.50	116.95	111.07
1	bJ	90	PRO	CA-C-N	5.50	131.49	122.64
1	bJ	90	PRO	C-N-CA	5.50	131.49	122.64
1	bK	88	ALA	CA-C-N	5.50	130.50	121.87
1	bK	88	ALA	C-N-CA	5.50	130.50	121.87
1	bK	178	SER	CA-C-N	5.50	127.64	120.28
1	bK	178	SER	C-N-CA	5.50	127.64	120.28
1	bO	4	GLN	O-C-N	-5.50	116.46	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bU	129	ILE	CA-CB-CG1	5.50	119.74	110.40
1	c5	101	GLY	CA-C-O	-5.50	114.46	120.40
1	ci	53	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	cu	79	GLU	CA-C-N	5.50	127.65	120.28
1	cu	79	GLU	C-N-CA	5.50	127.65	120.28
1	cy	109	SER	O-C-N	-5.50	116.88	123.31
1	1f	164	TYR	CA-C-N	5.50	127.49	120.56
1	1f	164	TYR	C-N-CA	5.50	127.49	120.56
1	cA	61	GLY	O-C-N	-5.50	117.62	123.45
1	cS	226	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	cV	148	THR	CA-CB-CG2	5.50	119.84	110.50
1	d9	200	THR	CB-CA-C	-5.50	102.02	110.81
1	df	104	ILE	N-CA-CB	5.50	116.98	110.55
1	1k	33	SER	CA-C-O	-5.50	113.87	120.41
1	1l	77	ALA	N-CA-C	5.50	117.27	111.28
1	dz	211	LEU	CA-C-O	5.50	126.31	120.10
1	dF	176	GLN	N-CA-C	5.50	119.22	111.52
1	dK	68	MET	O-C-N	-5.50	116.29	122.12
1	dQ	42	ALA	CA-C-O	-5.50	115.05	120.82
1	e6	87	HIS	CA-CB-CG	-5.50	108.30	113.80
1	ej	183	ASN	OD1-CG-ND2	-5.50	117.10	122.60
1	eF	119	THR	O-C-N	-5.50	116.31	122.03
1	1s	213	GLU	CA-C-O	5.50	126.25	120.42
1	eK	79	GLU	CA-C-N	5.50	128.09	120.29
1	eK	79	GLU	C-N-CA	5.50	128.09	120.29
1	eL	133	TRP	CG-CD2-CE3	-5.50	128.40	133.90
1	eY	97	ARG	CA-C-N	5.50	128.30	120.49
1	eY	97	ARG	C-N-CA	5.50	128.30	120.49
1	1u	99	PRO	CA-C-O	-5.50	114.72	121.31
1	fw	97	ARG	NE-CZ-NH1	5.50	127.00	121.50
1	fN	189	LEU	CA-C-O	-5.50	114.69	120.63
1	fW	151	LEU	CB-CA-C	-5.50	100.91	110.09
1	fY	87	HIS	CG-CD2-NE2	5.50	112.70	107.20
1	fZ	170	LYS	N-CA-C	5.50	117.27	111.28
1	0	133	TRP	CA-C-N	5.50	127.49	120.56
1	0	133	TRP	C-N-CA	5.50	127.49	120.56
1	a	47	ALA	CA-C-O	5.50	127.24	121.19
1	o	62	HIS	ND1-CE1-NE2	5.50	113.90	108.40
1	A	221	VAL	CA-C-N	5.50	127.27	120.34
1	A	221	VAL	C-N-CA	5.50	127.27	120.34
1	C	215	MET	CG-SD-CE	-5.50	88.81	100.90
1	H	41	SER	CA-C-N	5.50	128.10	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	41	SER	C-N-CA	5.50	128.10	120.29
1	K	43	LEU	CB-CA-C	-5.50	101.67	110.79
1	gh	89	GLY	N-CA-C	5.50	123.55	112.34
1	1E	103	ASP	N-CA-C	5.50	117.27	111.28
1	gQ	55	MET	N-CA-C	5.50	117.08	111.14
1	gU	120	HIS	CA-CB-CG	5.50	119.30	113.80
1	hc	5	ASN	OD1-CG-ND2	-5.50	117.11	122.60
1	hJ	158	LYS	CB-CA-C	-5.50	99.17	109.72
1	i1	4	GLN	O-C-N	-5.50	115.28	122.59
1	io	226	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	it	169	TYR	CB-CG-CD2	5.50	129.04	120.80
1	iA	5	ASN	CA-CB-CG	5.50	118.09	112.60
1	iA	17	PRO	N-CA-C	5.50	120.73	113.86
1	iZ	105	ALA	N-CA-CB	5.50	118.92	110.46
1	j6	71	GLU	CB-CA-C	5.50	119.91	110.79
1	jf	87	HIS	N-CA-C	5.50	117.82	110.35
1	1W	154	ARG	CA-C-N	5.50	128.51	120.71
1	1W	154	ARG	C-N-CA	5.50	128.51	120.71
1	jT	13	GLN	CG-CD-OE1	5.50	131.79	120.80
1	kb	98	GLU	CA-CB-CG	-5.50	103.11	114.10
1	kd	127	GLY	CA-C-N	5.50	127.58	120.44
1	kd	127	GLY	C-N-CA	5.50	127.58	120.44
1	ke	25	LYS	N-CA-C	5.50	117.35	111.36
1	kq	31	ALA	N-CA-C	-5.50	106.43	113.02
1	kz	16	SER	CA-C-O	-5.50	114.31	119.80
1	kA	87	HIS	CB-CG-CD2	-5.50	124.06	131.20
1	lc	66	MET	N-CA-C	5.50	117.27	111.28
1	33	28	GLU	N-CA-C	5.50	117.98	111.33
1	37	154	ARG	CG-CD-NE	-5.50	99.91	112.00
1	3a	12	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	3c	37	ILE	O-C-N	-5.50	116.17	120.07
1	3e	139	ASN	CA-C-N	5.50	127.64	120.28
1	3e	139	ASN	C-N-CA	5.50	127.64	120.28
1	3E	195	ASN	OD1-CG-ND2	-5.50	117.11	122.60
1	3T	13	GLN	CB-CG-CD	5.50	121.94	112.60
1	40	189	LEU	CA-C-O	-5.50	115.02	120.90
1	4q	73	ILE	N-CA-C	5.50	116.22	110.62
1	4s	159	GLU	N-CA-CB	-5.50	102.19	110.32
1	4w	160	PRO	CA-C-O	-5.50	114.72	121.31
1	4C	115	ILE	CB-CA-C	-5.50	104.64	112.22
1	4C	121	ASN	CB-CG-OD1	5.50	131.79	120.80
1	4E	148	THR	CB-CA-C	5.50	119.05	109.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5o	112	GLN	CB-CA-C	-5.50	101.67	110.79
1	5A	42	ALA	CA-C-N	5.50	127.96	120.54
1	5A	42	ALA	C-N-CA	5.50	127.96	120.54
1	5R	162	ARG	NH1-CZ-NH2	-5.50	112.16	119.30
1	65	39	MET	N-CA-C	5.50	117.27	111.28
1	6m	30	LYS	N-CA-C	-5.50	105.87	113.18
1	6p	15	ILE	O-C-N	-5.50	116.45	122.83
1	6s	56	LEU	N-CA-C	5.50	118.19	111.82
1	6G	65	ALA	CA-C-O	-5.50	115.02	120.90
1	6Z	53	ASN	CA-CB-CG	-5.50	107.11	112.60
1	7d	148	THR	O-C-N	-5.50	116.79	123.27
1	8s	61	GLY	CA-C-N	5.50	132.04	121.54
1	8s	61	GLY	C-N-CA	5.50	132.04	121.54
1	8K	120	HIS	CE1-NE2-CD2	-5.50	103.50	109.00
1	9p	64	ALA	N-CA-C	5.50	117.35	111.36
1	9H	21	ASN	N-CA-C	5.50	116.95	111.07
1	9Y	140	LYS	O-C-N	-5.50	116.41	122.07
1	ab	155	GLN	OE1-CD-NE2	5.50	128.09	122.60
1	ad	143	ARG	O-C-N	-5.50	114.97	122.33
1	aB	98	GLU	CA-C-N	5.50	125.40	119.85
1	aB	98	GLU	C-N-CA	5.50	125.40	119.85
1	aF	212	GLU	CA-C-O	-5.50	114.70	120.63
1	be	68	MET	CG-SD-CE	-5.50	88.81	100.90
1	bm	203	LYS	N-CA-CB	-5.50	101.84	110.30
1	18	5	ASN	N-CA-C	5.50	118.20	110.23
1	bz	12	HIS	CB-CG-CD2	-5.50	124.06	131.20
1	ca	109	SER	CA-C-N	5.50	128.65	120.90
1	ca	109	SER	C-N-CA	5.50	128.65	120.90
1	ck	83	LEU	O-C-N	-5.50	115.09	122.23
1	cl	151	LEU	CA-C-O	5.50	126.29	119.97
1	cs	2	ILE	CB-CG1-CD1	5.50	125.34	113.80
1	cH	173	ARG	NE-CZ-NH2	5.50	124.14	119.20
1	1h	173	ARG	NE-CZ-NH2	-5.50	114.25	119.20
1	d7	27	VAL	N-CA-C	5.50	115.69	110.42
1	de	16	SER	CB-CA-C	-5.50	100.99	109.62
1	dH	86	VAL	CB-CA-C	-5.50	104.01	111.15
1	dN	139	ASN	CB-CA-C	5.50	119.91	110.79
1	dR	63	GLN	CB-CA-C	5.50	119.51	110.88
1	dV	12	HIS	N-CA-CB	5.50	118.64	110.29
1	eI	176	GLN	OE1-CD-NE2	-5.50	117.11	122.60
1	f2	141	ILE	N-CA-C	5.50	115.69	110.42
1	1w	79	GLU	N-CA-C	5.50	117.27	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	178	SER	CA-C-N	5.50	128.19	120.28
1	fL	178	SER	C-N-CA	5.50	128.19	120.28
1	d	13	GLN	OE1-CD-NE2	-5.50	117.11	122.60
1	h	173	ARG	N-CA-C	5.50	116.95	111.07
1	1	21	ASN	CA-C-N	5.50	127.64	120.28
1	1	21	ASN	C-N-CA	5.50	127.64	120.28
1	C	86	VAL	N-CA-C	5.50	116.67	108.54
1	4	32	PHE	O-C-N	-5.50	115.74	122.55
1	gf	51	ASP	CA-C-N	5.49	127.58	120.44
1	gf	51	ASP	C-N-CA	5.49	127.58	120.44
1	gl	223	GLY	CA-C-N	5.49	126.71	119.84
1	gl	223	GLY	C-N-CA	5.49	126.71	119.84
1	gm	80	TRP	N-CA-C	-5.49	105.45	111.82
1	gT	117	TRP	CB-CA-C	-5.49	101.67	110.79
1	gU	193	ASN	N-CA-CB	5.49	118.91	110.61
1	h2	19	THR	OG1-CB-CG2	-5.49	98.31	109.30
1	hf	113	GLU	CB-CA-C	-5.49	100.12	110.67
1	hi	162	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	hl	17	PRO	CA-C-N	5.49	128.19	120.28
1	hl	17	PRO	C-N-CA	5.49	128.19	120.28
1	hq	23	TRP	CA-CB-CG	5.49	124.04	113.60
1	hv	20	LEU	CA-C-N	5.49	127.64	120.28
1	hv	20	LEU	C-N-CA	5.49	127.64	120.28
1	hA	100	ARG	O-C-N	-5.49	116.59	122.85
1	hJ	219	GLN	CA-C-O	5.49	127.13	120.81
1	hX	5	ASN	CA-CB-CG	-5.49	107.11	112.60
1	hZ	32	PHE	CA-C-O	5.49	128.37	120.51
1	i1	185	MET	N-CA-C	5.49	117.27	111.28
1	i6	203	LYS	CA-C-N	5.49	127.58	120.44
1	i6	203	LYS	C-N-CA	5.49	127.58	120.44
1	i7	223	GLY	O-C-N	-5.49	116.28	121.77
1	in	130	TYR	O-C-N	-5.49	116.30	122.12
1	in	152	ASP	CA-C-N	5.49	131.86	121.97
1	in	152	ASP	C-N-CA	5.49	131.86	121.97
1	ip	104	ILE	CA-C-O	-5.49	115.24	120.95
1	iU	171	THR	O-C-N	5.49	127.94	122.12
1	iV	153	ILE	CB-CA-C	5.49	120.27	111.32
1	j3	48	THR	O-C-N	-5.49	115.38	121.53
1	jb	145	TYR	CA-CB-CG	-5.49	104.01	113.90
1	jh	89	GLY	CA-C-N	5.49	126.71	119.84
1	jh	89	GLY	C-N-CA	5.49	126.71	119.84
1	ji	158	LYS	O-C-N	-5.49	116.53	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	27	VAL	N-CA-C	5.49	116.22	110.62
1	jr	228	ALA	N-CA-C	5.49	117.89	111.02
1	jE	92	GLU	CA-C-O	-5.49	114.58	119.75
1	jL	229	ARG	CA-CB-CG	5.49	125.08	114.10
1	jT	197	ASP	O-C-N	-5.49	116.41	122.07
1	1Z	23	TRP	CB-CG-CD1	-5.49	118.66	126.90
1	k9	88	ALA	CA-C-O	5.49	127.61	121.40
1	20	167	ARG	NE-CZ-NH2	-5.49	114.25	119.20
1	kf	205	LEU	CA-C-N	5.49	130.50	121.87
1	kf	205	LEU	C-N-CA	5.49	130.50	121.87
1	kg	110	THR	N-CA-CB	5.49	119.83	110.71
1	kj	189	LEU	N-CA-C	5.49	116.95	111.07
1	kl	138	LEU	CA-C-O	-5.49	114.73	120.55
1	kp	158	LYS	CA-C-N	5.49	128.03	120.39
1	kp	158	LYS	C-N-CA	5.49	128.03	120.39
1	ks	57	ASN	CA-CB-CG	-5.49	107.11	112.60
1	kt	21	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	kv	202	LEU	CA-C-N	5.49	127.91	120.44
1	kv	202	LEU	C-N-CA	5.49	127.91	120.44
1	kw	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	kF	135	ILE	O-C-N	-5.49	116.53	121.91
1	kI	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	kI	229	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	kW	86	VAL	CA-CB-CG1	5.49	119.74	110.40
1	le	205	LEU	N-CA-CB	-5.49	102.05	110.12
1	lf	24	VAL	CA-C-N	5.49	127.64	120.28
1	lf	24	VAL	C-N-CA	5.49	127.64	120.28
1	ln	97	ARG	O-C-N	-5.49	116.53	122.79
1	lM	130	TYR	N-CA-C	5.49	116.95	111.07
1	2i	117	TRP	N-CA-C	5.49	116.95	111.07
1	2L	136	LEU	CB-CA-C	-5.49	101.67	110.79
1	2N	9	GLN	CB-CG-CD	-5.49	103.26	112.60
1	30	104	ILE	CB-CA-C	-5.49	104.72	112.14
1	33	181	VAL	CA-C-N	5.49	127.91	120.38
1	33	181	VAL	C-N-CA	5.49	127.91	120.38
1	36	57	ASN	CB-CA-C	-5.49	101.88	110.94
1	3g	12	HIS	CB-CG-CD2	-5.49	124.06	131.20
1	3o	173	ARG	N-CA-C	5.49	117.27	111.28
1	3s	24	VAL	N-CA-C	5.49	115.69	110.42
1	3v	23	TRP	CB-CG-CD2	5.49	134.49	126.80
1	3z	82	ARG	O-C-N	-5.49	116.41	122.07
1	3B	5	ASN	CA-CB-CG	-5.49	107.11	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3M	119	THR	N-CA-CB	5.49	119.01	110.44
1	3U	79	GLU	O-C-N	-5.49	116.30	122.12
1	43	169	TYR	N-CA-C	5.49	118.19	111.82
1	4d	72	THR	N-CA-CB	5.49	117.97	110.01
1	4k	92	GLU	CA-C-O	-5.49	114.98	120.64
1	4k	153	ILE	O-C-N	-5.49	116.24	122.72
1	4m	179	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	4F	204	ALA	N-CA-C	5.49	117.27	111.28
1	4I	36	VAL	CA-CB-CG1	5.49	119.74	110.40
1	4T	133	TRP	CA-C-N	5.49	127.48	120.56
1	4T	133	TRP	C-N-CA	5.49	127.48	120.56
1	4W	226	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	53	5	ASN	OD1-CG-ND2	5.49	128.09	122.60
1	5f	225	GLY	O-C-N	-5.49	115.51	122.82
1	5k	168	PHE	CA-CB-CG	-5.49	108.31	113.80
1	5p	27	VAL	CA-C-N	5.49	127.95	120.54
1	5p	27	VAL	C-N-CA	5.49	127.95	120.54
1	5M	5	ASN	CA-C-O	-5.49	115.73	121.55
1	5R	26	VAL	CA-C-N	5.49	127.48	120.56
1	5R	26	VAL	C-N-CA	5.49	127.48	120.56
1	5R	150	ILE	N-CA-C	5.49	119.73	112.04
1	5U	5	ASN	CA-CB-CG	-5.49	107.11	112.60
1	5W	213	GLU	CA-C-O	5.49	126.31	120.10
1	5X	158	LYS	CG-CD-CE	5.49	123.93	111.30
1	6m	102	SER	N-CA-C	5.49	117.27	111.28
1	6s	188	THR	N-CA-CB	5.49	119.77	110.49
1	6u	47	ALA	CA-C-N	5.49	129.00	120.60
1	6u	47	ALA	C-N-CA	5.49	129.00	120.60
1	6z	187	GLU	O-C-N	-5.49	115.51	122.27
1	6M	193	ASN	O-C-N	-5.49	115.71	122.25
1	6P	171	THR	CA-CB-OG1	-5.49	101.36	109.60
1	6Q	195	ASN	O-C-N	-5.49	115.49	121.53
1	78	230	VAL	N-CA-CB	-5.49	105.01	111.60
1	7g	195	ASN	OD1-CG-ND2	5.49	128.09	122.60
1	7k	230	VAL	CB-CA-C	5.49	119.16	111.08
1	7B	16	SER	CA-C-O	-5.49	114.32	120.25
1	7D	102	SER	CA-CB-OG	-5.49	100.11	111.10
1	7E	102	SER	O-C-N	-5.49	115.79	122.22
1	7G	230	VAL	O-C-N	-5.49	116.13	122.17
1	7M	141	ILE	CA-C-O	5.49	126.23	119.58
1	7O	219	GLN	O-C-N	-5.49	116.11	122.87
1	87	24	VAL	N-CA-C	5.49	116.22	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8m	195	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	8n	21	ASN	CA-CB-CG	5.49	118.09	112.60
1	8p	179	GLN	N-CA-CB	5.49	118.30	110.06
1	8u	169	TYR	CA-C-N	5.49	127.91	120.38
1	8u	169	TYR	C-N-CA	5.49	127.91	120.38
1	8O	57	ASN	CA-CB-CG	5.49	118.09	112.60
1	93	226	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	95	57	ASN	CA-C-N	5.49	128.19	120.28
1	95	57	ASN	C-N-CA	5.49	128.19	120.28
1	96	24	VAL	CA-C-N	5.49	127.64	120.28
1	96	24	VAL	C-N-CA	5.49	127.64	120.28
1	99	196	PRO	N-CA-CB	5.49	108.97	103.48
1	9p	84	HIS	CA-CB-CG	5.49	119.29	113.80
1	9w	108	THR	O-C-N	-5.49	115.30	122.39
1	9E	159	GLU	CA-C-N	5.49	125.50	119.90
1	9E	159	GLU	C-N-CA	5.49	125.50	119.90
1	9F	49	PRO	CA-C-N	5.49	127.96	120.54
1	9F	49	PRO	C-N-CA	5.49	127.96	120.54
1	9R	133	TRP	CB-CG-CD2	-5.49	119.11	126.80
1	aa	217	ALA	N-CA-CB	-5.49	102.78	110.25
1	al	154	ARG	NH1-CZ-NH2	-5.49	112.16	119.30
1	av	117	TRP	CA-C-O	5.49	126.29	119.97
1	aC	126	VAL	O-C-N	-5.49	116.32	121.87
1	aR	3	VAL	O-C-N	-5.49	115.70	122.57
1	15	178	SER	O-C-N	-5.49	116.53	123.12
1	b8	160	PRO	CA-C-N	5.49	127.64	120.28
1	b8	160	PRO	C-N-CA	5.49	127.64	120.28
1	bi	176	GLN	CA-C-N	5.49	130.15	120.87
1	bi	176	GLN	C-N-CA	5.49	130.15	120.87
1	bx	165	VAL	O-C-N	-5.49	116.54	121.87
1	bD	135	ILE	CA-C-N	5.49	128.19	120.28
1	bD	135	ILE	C-N-CA	5.49	128.19	120.28
1	bR	106	GLY	CA-C-O	5.49	125.09	119.10
1	bX	166	ASP	CA-CB-CG	5.49	118.09	112.60
1	c6	220	GLY	CA-C-O	5.49	126.08	119.82
1	c7	148	THR	CA-CB-OG1	5.49	117.84	109.60
1	c8	132	ARG	N-CA-C	5.49	118.19	111.82
1	cb	143	ARG	N-CA-CB	-5.49	102.03	110.16
1	cq	104	ILE	N-CA-C	5.49	116.22	110.62
1	cs	205	LEU	CA-C-N	5.49	130.49	121.87
1	cs	205	LEU	C-N-CA	5.49	130.49	121.87
1	cy	214	MET	O-C-N	-5.49	115.79	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cC	48	THR	N-CA-C	-5.49	103.81	110.13
1	cE	58	THR	N-CA-C	-5.49	106.62	113.38
1	dg	149	SER	CA-C-N	5.49	129.15	120.47
1	dg	149	SER	C-N-CA	5.49	129.15	120.47
1	dk	86	VAL	O-C-N	-5.49	115.83	122.59
1	1m	5	ASN	N-CA-CB	-5.49	102.04	110.12
1	dI	13	GLN	OE1-CD-NE2	5.49	128.09	122.60
1	dN	136	LEU	O-C-N	-5.49	116.30	122.12
1	e1	23	TRP	N-CA-C	5.49	116.95	111.07
1	e4	40	PHE	O-C-N	-5.49	116.38	122.09
1	eb	70	LYS	N-CA-C	5.49	117.27	111.28
1	ek	202	LEU	CA-C-N	5.49	128.09	120.29
1	ek	202	LEU	C-N-CA	5.49	128.09	120.29
1	ep	73	ILE	N-CA-CB	5.49	118.82	110.58
1	1s	165	VAL	CA-C-O	5.49	126.66	120.95
1	f1	161	PHE	CA-C-O	-5.49	114.77	120.92
1	f7	150	ILE	O-C-N	-5.49	116.53	121.91
1	fb	4	GLN	N-CA-C	5.49	118.15	109.96
1	fk	176	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	fo	82	ARG	CA-C-N	5.49	128.09	120.29
1	fo	82	ARG	C-N-CA	5.49	128.09	120.29
1	fI	72	THR	CA-C-O	5.49	126.37	120.55
1	fW	86	VAL	CB-CA-C	-5.49	103.01	111.08
1	g0	221	VAL	N-CA-C	5.49	118.46	109.78
1	g3	218	CYS	N-CA-CB	5.49	119.77	110.49
1	g7	31	ALA	O-C-N	-5.49	115.28	122.59
1	1B	193	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	d	167	ARG	CA-C-N	5.49	127.58	120.44
1	d	167	ARG	C-N-CA	5.49	127.58	120.44
1	o	55	MET	N-CA-C	5.49	117.07	111.14
1	r	97	ARG	NH1-CZ-NH2	-5.49	112.16	119.30
1	t	211	LEU	CA-C-O	5.49	126.37	120.55
1	u	162	ARG	CB-CG-CD	5.49	123.94	111.30
1	y	178	SER	N-CA-C	5.49	122.50	110.80
1	B	19	THR	CA-CB-OG1	5.49	117.84	109.60
1	F	18	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	V	66	MET	N-CA-C	5.49	117.27	111.28
1	V	78	ALA	N-CA-C	5.49	117.27	111.28
1	gh	11	VAL	CA-C-O	5.49	126.42	120.43
1	gT	37	ILE	CA-C-N	5.49	124.84	118.85
1	gT	37	ILE	C-N-CA	5.49	124.84	118.85
1	1H	27	VAL	CA-CB-CG1	5.49	119.74	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h7	16	SER	CA-C-N	5.49	126.70	119.84
1	h7	16	SER	C-N-CA	5.49	126.70	119.84
1	hL	191	VAL	N-CA-C	5.49	116.99	111.00
1	hN	86	VAL	CA-C-N	5.49	127.64	120.28
1	hN	86	VAL	C-N-CA	5.49	127.64	120.28
1	i5	108	THR	CA-C-N	5.49	130.58	123.00
1	i5	108	THR	C-N-CA	5.49	130.58	123.00
1	ic	14	ALA	N-CA-C	5.49	117.62	110.43
1	il	112	GLN	OE1-CD-NE2	5.49	128.09	122.60
1	ji	201	ILE	CA-CB-CG1	5.49	119.74	110.40
1	jr	143	ARG	CA-C-N	5.49	127.64	120.28
1	jr	143	ARG	C-N-CA	5.49	127.64	120.28
1	jv	12	HIS	CG-CD2-NE2	5.49	112.69	107.20
1	kj	184	TRP	O-C-N	-5.49	116.41	122.07
1	kw	122	PRO	CA-C-N	5.49	126.70	119.84
1	kw	122	PRO	C-N-CA	5.49	126.70	119.84
1	kz	203	LYS	N-CA-C	5.49	118.03	111.71
1	kY	71	GLU	CB-CG-CD	5.49	121.94	112.60
1	l5	83	LEU	N-CA-C	5.49	116.95	111.07
1	lH	62	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	lJ	212	GLU	N-CA-C	5.49	117.27	111.28
1	2n	136	LEU	O-C-N	-5.49	116.30	122.12
1	2M	148	THR	O-C-N	-5.49	117.33	123.48
1	2U	193	ASN	CA-CB-CG	-5.49	107.11	112.60
1	3a	82	ARG	NH1-CZ-NH2	-5.49	112.16	119.30
1	3c	149	SER	CA-CB-OG	5.49	122.08	111.10
1	3d	193	ASN	CA-C-N	5.49	128.89	120.82
1	3d	193	ASN	C-N-CA	5.49	128.89	120.82
1	3Y	97	ARG	CA-C-O	5.49	128.24	121.87
1	4c	71	GLU	CA-C-N	5.49	127.58	120.44
1	4c	71	GLU	C-N-CA	5.49	127.58	120.44
1	4Q	113	GLU	CA-C-O	5.49	126.56	120.63
1	4Q	173	ARG	O-C-N	-5.49	116.41	122.07
1	5y	80	TRP	O-C-N	-5.49	116.41	122.07
1	5C	194	ALA	O-C-N	-5.49	116.06	122.81
1	5I	109	SER	CA-CB-OG	5.49	122.08	111.10
1	6a	211	LEU	N-CA-C	5.49	117.27	111.28
1	6j	130	TYR	CA-C-N	5.49	127.64	120.28
1	6j	130	TYR	C-N-CA	5.49	127.64	120.28
1	6m	19	THR	N-CA-CB	5.49	118.17	109.82
1	6F	142	VAL	N-CA-C	5.49	115.69	110.42
1	6K	121	ASN	CB-CA-C	5.49	116.47	110.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Y	42	ALA	N-CA-CB	-5.49	102.05	110.12
1	70	156	GLY	CA-C-N	5.49	125.15	119.05
1	70	156	GLY	C-N-CA	5.49	125.15	119.05
1	7c	37	ILE	CA-C-N	5.49	124.84	118.85
1	7c	37	ILE	C-N-CA	5.49	124.84	118.85
1	7c	123	PRO	N-CA-C	5.49	119.84	111.11
1	7j	125	PRO	N-CA-CB	-5.49	98.08	102.36
1	7z	72	THR	CA-CB-CG2	5.49	119.84	110.50
1	7H	82	ARG	N-CA-C	5.49	117.35	111.36
1	7K	16	SER	CB-CA-C	-5.49	101.19	109.26
1	7U	8	GLY	O-C-N	5.49	129.84	122.70
1	84	212	GLU	CA-C-O	5.49	126.37	120.55
1	8b	178	SER	CA-CB-OG	5.49	122.08	111.10
1	8g	123	PRO	N-CA-C	5.49	120.21	111.26
1	8s	152	ASP	CA-C-O	-5.49	115.05	120.82
1	8w	95	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	9b	18	ARG	NH1-CZ-NH2	-5.49	112.16	119.30
1	9y	82	ARG	O-C-N	-5.49	116.30	122.12
1	9B	45	GLU	O-C-N	-5.49	115.71	123.01
1	9E	153	ILE	N-CA-C	5.49	118.46	109.78
1	9K	64	ALA	N-CA-C	5.49	117.27	111.28
1	9M	128	GLU	CB-CG-CD	5.49	121.94	112.60
1	a7	203	LYS	CA-C-O	-5.49	114.73	120.55
1	11	57	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	16	18	ARG	N-CA-C	5.49	117.70	111.11
1	bq	35	GLU	CA-CB-CG	5.49	125.08	114.10
1	bz	84	HIS	CA-C-N	5.49	126.70	119.84
1	bz	84	HIS	C-N-CA	5.49	126.70	119.84
1	bN	131	LYS	N-CA-CB	5.49	118.29	110.16
1	bR	179	GLN	CA-C-N	5.49	127.58	120.44
1	bR	179	GLN	C-N-CA	5.49	127.58	120.44
1	c2	141	ILE	CA-C-O	5.49	126.66	120.95
1	c4	18	ARG	O-C-N	-5.49	115.89	122.15
1	cK	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	dn	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	dH	220	GLY	CA-C-N	5.49	130.41	121.62
1	dH	220	GLY	C-N-CA	5.49	130.41	121.62
1	dO	178	SER	N-CA-C	5.49	117.98	110.24
1	eb	14	ALA	CA-C-N	5.49	129.42	121.18
1	eb	14	ALA	C-N-CA	5.49	129.42	121.18
1	ek	32	PHE	O-C-N	-5.49	115.36	122.56
1	ex	226	HIS	CA-C-N	5.49	129.04	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ex	226	HIS	C-N-CA	5.49	129.04	120.75
1	eZ	21	ASN	CA-C-N	5.49	127.91	120.44
1	eZ	21	ASN	C-N-CA	5.49	127.91	120.44
1	fb	48	THR	CA-C-O	-5.49	114.73	120.88
1	fE	111	LEU	N-CA-C	5.49	117.27	111.28
1	fN	47	ALA	N-CA-C	5.49	118.49	109.76
1	fR	22	ALA	CB-CA-C	-5.49	101.51	110.85
1	fU	29	GLU	CA-C-O	5.49	124.94	118.90
1	i	117	TRP	CA-C-O	5.49	126.37	120.55
1	l	141	ILE	CA-CB-CG2	5.49	119.84	110.50
1	N	68	MET	CA-CB-CG	-5.49	103.12	114.10
1	O	198	CYS	CA-C-N	5.49	127.90	120.38
1	O	198	CYS	C-N-CA	5.49	127.90	120.38
1	W	140	LYS	CA-C-N	5.49	127.48	120.56
1	W	140	LYS	C-N-CA	5.49	127.48	120.56
1	g9	40	PHE	CA-C-N	5.49	127.58	120.44
1	g9	40	PHE	C-N-CA	5.49	127.58	120.44
1	g9	93	PRO	O-C-N	5.49	129.55	122.85
1	ga	36	VAL	CA-CB-CG1	5.49	119.73	110.40
1	gb	177	ALA	N-CA-C	5.49	117.38	110.24
1	gm	57	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	gr	57	ASN	CA-CB-CG	-5.49	107.11	112.60
1	gF	95	GLN	CB-CA-C	-5.49	101.44	110.72
1	gK	178	SER	CA-C-N	5.49	127.64	120.28
1	gK	178	SER	C-N-CA	5.49	127.64	120.28
1	1F	47	ALA	CB-CA-C	5.49	118.59	109.53
1	gM	198	CYS	CA-C-O	5.49	126.37	120.55
1	gW	117	TRP	CD2-CE2-CZ2	-5.49	116.91	122.40
1	gW	136	LEU	CA-C-O	5.49	126.37	120.55
1	h4	39	MET	CA-C-N	5.49	127.58	120.44
1	h4	39	MET	C-N-CA	5.49	127.58	120.44
1	h4	189	LEU	N-CA-C	5.49	117.27	111.28
1	h6	95	GLN	O-C-N	-5.49	116.04	122.96
1	hb	184	TRP	N-CA-CB	-5.49	102.05	110.01
1	hh	32	PHE	N-CA-C	-5.49	105.01	112.26
1	hi	75	GLU	N-CA-C	5.49	117.26	111.28
1	hl	98	GLU	O-C-N	-5.49	116.30	121.35
1	1J	176	GLN	O-C-N	-5.49	115.22	122.47
1	1J	220	GLY	CA-C-N	5.49	127.98	120.35
1	1J	220	GLY	C-N-CA	5.49	127.98	120.35
1	hI	81	ASP	CA-CB-CG	-5.49	107.11	112.60
1	hT	141	ILE	N-CA-CB	-5.49	104.12	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i9	172	LEU	O-C-N	-5.49	116.30	122.12
1	if	139	ASN	CA-C-O	5.49	126.58	120.82
1	ik	83	LEU	O-C-N	-5.49	116.38	122.09
1	it	184	TRP	CB-CG-CD2	5.49	134.49	126.80
1	iD	50	GLN	N-CA-CB	5.49	117.97	110.01
1	j4	184	TRP	CG-CD2-CE3	5.49	139.39	133.90
1	ja	147	PRO	CA-C-N	5.49	130.88	121.87
1	ja	147	PRO	C-N-CA	5.49	130.88	121.87
1	je	23	TRP	CB-CG-CD2	-5.49	119.11	126.80
1	je	48	THR	CA-C-N	5.49	126.70	119.84
1	je	48	THR	C-N-CA	5.49	126.70	119.84
1	jg	132	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	ji	3	VAL	N-CA-C	5.49	116.39	108.48
1	jn	61	GLY	N-CA-C	5.49	121.55	112.66
1	jp	114	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	jF	119	THR	CA-CB-OG1	5.49	117.83	109.60
1	1X	55	MET	CA-C-O	-5.49	115.06	120.82
1	jL	121	ASN	CA-C-O	5.49	125.14	119.49
1	jL	185	MET	CG-SD-CE	-5.49	88.82	100.90
1	jP	161	PHE	CA-C-N	5.49	127.91	120.44
1	jP	161	PHE	C-N-CA	5.49	127.91	120.44
1	jU	126	VAL	N-CA-C	5.49	119.80	111.89
1	kn	119	THR	N-CA-CB	5.49	119.00	110.44
1	kx	3	VAL	O-C-N	-5.49	116.94	123.03
1	ky	48	THR	N-CA-CB	5.49	117.96	110.05
1	kA	12	HIS	CA-C-O	5.49	126.36	120.38
1	l4	58	THR	N-CA-CB	5.49	118.43	110.47
1	l4	87	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	li	209	ALA	CA-C-N	5.49	130.15	120.87
1	li	209	ALA	C-N-CA	5.49	130.15	120.87
1	28	162	ARG	N-CA-CB	5.49	118.19	110.12
1	lw	20	LEU	CA-C-N	5.49	127.58	120.44
1	lw	20	LEU	C-N-CA	5.49	127.58	120.44
1	lw	117	TRP	N-CA-C	5.49	117.26	111.28
1	ly	176	GLN	O-C-N	5.49	129.20	122.34
1	lK	210	THR	CA-C-O	5.49	128.23	122.03
1	2a	39	MET	O-C-N	-5.49	116.30	122.12
1	2i	5	ASN	CA-CB-CG	5.49	118.09	112.60
1	2i	75	GLU	N-CA-C	5.49	116.94	111.07
1	2m	138	LEU	N-CA-C	5.49	117.27	111.28
1	2o	226	HIS	O-C-N	-5.49	116.09	123.23
1	2p	171	THR	N-CA-C	5.49	117.27	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2r	227	LYS	CA-C-N	5.49	127.58	120.44
1	2r	227	LYS	C-N-CA	5.49	127.58	120.44
1	2u	13	GLN	O-C-N	-5.49	116.79	123.10
1	2C	191	VAL	N-CA-C	-5.49	106.34	111.45
1	2J	169	TYR	CA-CB-CG	-5.49	104.02	113.90
1	2V	185	MET	N-CA-CB	5.49	118.19	110.12
1	30	119	THR	N-CA-CB	5.49	118.56	110.33
1	37	78	ALA	CA-C-N	5.49	128.09	120.29
1	37	78	ALA	C-N-CA	5.49	128.09	120.29
1	3b	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	3c	204	ALA	N-CA-C	5.49	117.27	111.28
1	3g	63	GLN	O-C-N	-5.49	115.52	122.27
1	3h	53	ASN	CA-CB-CG	-5.49	107.11	112.60
1	3m	183	ASN	CA-C-O	5.49	126.28	119.97
1	3J	190	LEU	CA-C-O	5.49	126.37	120.55
1	3N	184	TRP	CA-C-N	5.49	128.19	120.28
1	3N	184	TRP	C-N-CA	5.49	128.19	120.28
1	3U	79	GLU	N-CA-C	5.49	117.97	111.33
1	4m	81	ASP	CB-CA-C	5.49	121.21	110.67
1	4o	77	ALA	CA-C-N	5.49	127.64	120.28
1	4o	77	ALA	C-N-CA	5.49	127.64	120.28
1	4s	161	PHE	CB-CG-CD2	-5.49	111.37	120.70
1	4x	61	GLY	CA-C-N	5.49	130.16	122.36
1	4x	61	GLY	C-N-CA	5.49	130.16	122.36
1	4z	54	THR	O-C-N	-5.49	115.89	122.15
1	4I	55	MET	O-C-N	-5.49	116.16	122.09
1	4Q	81	ASP	CB-CA-C	5.49	119.65	110.92
1	53	144	MET	N-CA-CB	-5.49	101.77	110.28
1	56	91	ILE	CA-C-N	5.49	128.28	120.49
1	56	91	ILE	C-N-CA	5.49	128.28	120.49
1	58	150	ILE	CA-C-O	5.49	126.40	120.47
1	5c	81	ASP	CA-CB-CG	5.49	118.09	112.60
1	5h	50	GLN	N-CA-C	5.49	116.94	111.07
1	5l	188	THR	CA-C-O	5.49	128.36	120.51
1	5u	195	ASN	CB-CG-OD1	5.49	131.78	120.80
1	5y	2	ILE	CB-CA-C	5.49	118.31	110.84
1	5A	118	MET	N-CA-C	5.49	117.26	111.28
1	5D	141	ILE	N-CA-C	5.49	116.12	110.36
1	5E	85	PRO	N-CA-C	5.49	119.83	111.15
1	5H	36	VAL	CA-C-N	5.49	124.72	120.33
1	5H	36	VAL	C-N-CA	5.49	124.72	120.33
1	5K	133	TRP	N-CA-CB	5.49	118.19	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5O	114	GLN	N-CA-CB	5.49	118.19	110.12
1	5S	186	THR	N-CA-C	5.49	117.27	111.28
1	63	27	VAL	N-CA-CB	5.49	116.97	110.55
1	6h	19	THR	CB-CA-C	-5.49	102.26	110.88
1	6q	205	LEU	CA-C-O	5.49	126.28	119.97
1	6A	154	ARG	CA-C-O	5.49	127.62	120.21
1	79	178	SER	CA-C-N	5.49	127.90	120.38
1	79	178	SER	C-N-CA	5.49	127.90	120.38
1	7E	140	LYS	CA-C-N	5.49	127.98	120.46
1	7E	140	LYS	C-N-CA	5.49	127.98	120.46
1	86	54	THR	N-CA-C	5.49	117.27	111.28
1	8h	53	ASN	CA-CB-CG	-5.49	107.11	112.60
1	8i	162	ARG	CA-C-O	-5.49	114.73	120.55
1	8m	117	TRP	CB-CG-CD1	-5.49	118.67	126.90
1	8r	67	GLN	OE1-CD-NE2	5.49	128.09	122.60
1	8A	67	GLN	CA-C-N	5.49	127.91	120.44
1	8A	67	GLN	C-N-CA	5.49	127.91	120.44
1	8A	191	VAL	CB-CA-C	-5.49	102.83	110.95
1	8M	117	TRP	CD2-CE3-CZ3	5.49	125.74	118.60
1	8W	209	ALA	CA-C-O	-5.49	115.15	121.19
1	9d	79	GLU	CA-C-N	5.49	128.09	120.29
1	9d	79	GLU	C-N-CA	5.49	128.09	120.29
1	9f	128	GLU	N-CA-C	5.49	116.94	111.07
1	9t	143	ARG	O-C-N	-5.49	114.88	122.46
1	9D	53	ASN	CA-C-N	5.49	127.64	120.28
1	9D	53	ASN	C-N-CA	5.49	127.64	120.28
1	9D	217	ALA	N-CA-C	5.49	122.50	110.80
1	9F	58	THR	O-C-N	-5.49	114.61	122.41
1	Y	81	ASP	O-C-N	-5.49	115.89	122.15
1	9R	133	TRP	N-CA-C	5.49	117.27	111.28
1	9X	54	THR	CA-C-N	5.49	127.64	120.28
1	9X	54	THR	C-N-CA	5.49	127.64	120.28
1	9Y	24	VAL	CB-CA-C	5.49	118.91	111.88
1	ab	19	THR	CA-CB-CG2	5.49	119.83	110.50
1	aj	35	GLU	CA-C-O	5.49	126.19	119.05
1	14	84	HIS	CA-CB-CG	-5.49	108.31	113.80
1	aU	84	HIS	CA-CB-CG	-5.49	108.31	113.80
1	aV	162	ARG	N-CA-C	5.49	117.26	111.28
1	b7	103	ASP	CB-CA-C	-5.49	101.68	110.79
1	be	21	ASN	CB-CG-ND2	5.49	124.64	116.40
1	br	221	VAL	O-C-N	-5.49	116.69	122.67
1	bJ	37	ILE	O-C-N	-5.49	116.91	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bK	18	ARG	CA-C-N	5.49	127.91	120.44
1	bK	18	ARG	C-N-CA	5.49	127.91	120.44
1	c8	23	TRP	O-C-N	-5.49	116.42	122.07
1	cb	219	GLN	N-CA-C	-5.49	106.46	112.72
1	cc	74	ASN	CA-CB-CG	-5.49	107.11	112.60
1	ce	207	PRO	CA-C-N	5.49	128.19	120.28
1	ce	207	PRO	C-N-CA	5.49	128.19	120.28
1	cf	131	LYS	CA-C-N	5.49	127.91	120.44
1	cf	131	LYS	C-N-CA	5.49	127.91	120.44
1	cf	184	TRP	CA-C-N	5.49	127.58	120.44
1	cf	184	TRP	C-N-CA	5.49	127.58	120.44
1	cx	228	ALA	O-C-N	-5.49	116.53	123.17
1	cy	94	GLY	CA-C-O	5.49	125.10	119.01
1	cH	3	VAL	CB-CA-C	5.49	119.01	110.83
1	cJ	176	GLN	CA-C-N	5.49	132.03	121.54
1	cJ	176	GLN	C-N-CA	5.49	132.03	121.54
1	cK	101	GLY	O-C-N	-5.49	116.86	122.19
1	d8	121	ASN	O-C-N	-5.49	116.11	121.38
1	di	96	MET	CA-C-O	-5.49	114.43	120.69
1	dl	121	ASN	CA-C-O	-5.49	114.28	119.55
1	1k	195	ASN	CA-CB-CG	5.49	118.09	112.60
1	1k	195	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	e0	27	VAL	CA-C-O	5.49	126.40	120.47
1	1o	197	ASP	CA-C-O	-5.49	113.66	119.97
1	e3	67	GLN	N-CA-C	5.49	117.34	111.36
1	e8	3	VAL	CA-C-N	5.49	132.03	121.54
1	e8	3	VAL	C-N-CA	5.49	132.03	121.54
1	eg	204	ALA	CA-C-N	5.49	128.09	120.29
1	eg	204	ALA	C-N-CA	5.49	128.09	120.29
1	1r	49	PRO	CB-CA-C	5.49	120.62	111.56
1	eF	135	ILE	O-C-N	-5.49	116.55	121.87
1	eG	193	ASN	N-CA-C	-5.49	106.35	113.16
1	eH	170	LYS	N-CA-CB	5.49	118.17	109.82
1	eV	169	TYR	CA-C-N	5.49	127.64	120.28
1	eV	169	TYR	C-N-CA	5.49	127.64	120.28
1	f6	10	MET	N-CA-C	5.49	119.15	111.74
1	fa	36	VAL	CA-CB-CG2	-5.49	101.06	110.40
1	fa	191	VAL	CA-C-N	5.49	127.90	120.38
1	fa	191	VAL	C-N-CA	5.49	127.90	120.38
1	fb	144	MET	CA-C-O	5.49	125.18	119.14
1	fe	91	ILE	N-CA-CB	5.49	119.35	110.13
1	1w	165	VAL	CA-C-O	5.49	126.40	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fp	120	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	fA	182	LYS	N-CA-C	5.49	118.03	111.71
1	1y	36	VAL	CA-CB-CG2	-5.49	101.06	110.40
1	fF	49	PRO	N-CA-C	5.49	123.78	112.47
1	fJ	120	HIS	CB-CG-CD2	-5.49	124.06	131.20
1	fK	15	ILE	CA-C-O	5.49	127.64	120.78
1	1z	134	ILE	O-C-N	-5.49	116.54	121.87
1	fX	220	GLY	CA-C-O	5.49	130.12	120.57
1	g4	119	THR	CA-CB-CG2	-5.49	101.17	110.50
1	g5	73	ILE	CB-CA-C	-5.49	104.94	111.97
1	g5	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	a	108	THR	N-CA-CB	5.49	118.71	110.53
1	e	162	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	w	129	ILE	N-CA-CB	5.49	120.29	111.23
1	D	188	THR	CA-C-N	5.49	127.90	120.38
1	D	188	THR	C-N-CA	5.49	127.90	120.38
1	G	71	GLU	O-C-N	-5.49	116.30	122.12
1	G	131	LYS	O-C-N	5.49	127.72	122.07
1	I	197	ASP	CA-CB-CG	-5.49	107.11	112.60
1	N	186	THR	N-CA-CB	5.49	118.28	110.16
1	4	215	MET	CA-C-N	5.49	127.58	120.44
1	4	215	MET	C-N-CA	5.49	127.58	120.44
1	U	216	THR	N-CA-CB	5.49	118.29	110.16
1	U	226	HIS	CA-CB-CG	-5.49	108.31	113.80
1	8	230	VAL	CB-CA-C	-5.49	103.91	111.65
1	gq	24	VAL	O-C-N	5.49	127.29	121.91
1	gr	119	THR	N-CA-C	-5.49	105.95	113.30
1	gt	91	ILE	O-C-N	-5.49	116.24	122.94
1	gE	9	GLN	CA-C-O	5.49	126.07	119.43
1	gE	169	TYR	N-CA-C	5.49	117.26	111.28
1	gJ	200	THR	CA-CB-OG1	5.49	117.83	109.60
1	gK	74	ASN	N-CA-C	5.49	117.34	111.36
1	gZ	43	LEU	N-CA-C	5.49	117.97	111.33
1	hg	33	SER	N-CA-C	-5.49	101.88	108.25
1	hh	97	ARG	N-CA-C	5.49	117.98	110.24
1	ho	173	ARG	NE-CZ-NH2	5.49	124.14	119.20
1	hp	17	PRO	CA-C-N	5.49	127.58	120.44
1	hp	17	PRO	C-N-CA	5.49	127.58	120.44
1	hq	4	GLN	CA-C-N	5.49	127.64	120.28
1	hq	4	GLN	C-N-CA	5.49	127.64	120.28
1	hu	91	ILE	CB-CA-C	-5.49	104.65	112.22
1	hv	79	GLU	CA-C-N	5.49	128.08	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hv	79	GLU	C-N-CA	5.49	128.08	120.29
1	hK	197	ASP	O-C-N	-5.49	115.89	122.15
1	hW	121	ASN	CA-CB-CG	-5.49	107.11	112.60
1	i2	166	ASP	O-C-N	-5.49	116.42	122.07
1	io	135	ILE	N-CA-C	5.49	115.69	110.42
1	is	195	ASN	CA-CB-CG	5.49	118.09	112.60
1	iv	21	ASN	O-C-N	-5.49	116.30	122.12
1	iC	12	HIS	CG-CD2-NE2	5.49	112.69	107.20
1	iL	98	GLU	O-C-N	5.49	126.77	121.28
1	iU	33	SER	CA-C-O	-5.49	113.45	120.04
1	iU	114	GLN	CA-C-N	5.49	127.59	120.56
1	iU	114	GLN	C-N-CA	5.49	127.59	120.56
1	j1	40	PHE	CA-CB-CG	-5.49	108.31	113.80
1	j1	70	LYS	O-C-N	-5.49	116.30	122.12
1	j6	176	GLN	N-CA-C	5.49	117.88	111.02
1	jc	179	GLN	N-CA-C	5.49	117.26	111.28
1	jl	216	THR	N-CA-C	-5.49	106.36	113.16
1	jv	16	SER	CA-C-N	5.49	124.83	118.85
1	jv	16	SER	C-N-CA	5.49	124.83	118.85
1	jz	19	THR	CA-CB-CG2	5.49	119.83	110.50
1	jB	41	SER	N-CA-C	5.49	117.26	111.28
1	1X	39	MET	N-CA-CB	-5.49	102.11	110.07
1	jH	2	ILE	CA-CB-CG1	5.49	119.73	110.40
1	jO	97	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	jQ	176	GLN	CA-C-N	5.49	129.04	120.75
1	jQ	176	GLN	C-N-CA	5.49	129.04	120.75
1	jT	169	TYR	N-CA-C	5.49	118.78	111.75
1	k3	182	LYS	CA-CB-CG	5.49	125.08	114.10
1	k4	131	LYS	CB-CA-C	5.49	119.59	110.81
1	kb	62	HIS	CB-CG-CD2	-5.49	124.07	131.20
1	kb	87	HIS	CG-CD2-NE2	5.49	112.69	107.20
1	kd	196	PRO	N-CA-C	5.49	123.78	112.47
1	kh	103	ASP	CA-CB-CG	-5.49	107.11	112.60
1	kj	181	VAL	O-C-N	-5.49	116.18	121.83
1	kr	50	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	kz	163	ASP	CA-C-N	5.49	128.08	120.29
1	kz	163	ASP	C-N-CA	5.49	128.08	120.29
1	kE	120	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	24	141	ILE	CA-C-N	5.49	127.48	120.56
1	24	141	ILE	C-N-CA	5.49	127.48	120.56
1	kS	208	ALA	CA-C-O	5.49	125.77	119.35
1	26	108	THR	CA-C-O	5.49	125.92	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	26	185	MET	CA-C-O	5.49	126.76	121.00
1	lB	103	ASP	CB-CA-C	-5.49	101.52	110.85
1	lE	25	LYS	CA-C-N	5.49	127.98	120.46
1	lE	25	LYS	C-N-CA	5.49	127.98	120.46
1	lK	11	VAL	CB-CA-C	-5.49	104.39	111.53
1	2e	128	GLU	O-C-N	5.49	128.02	122.09
1	2j	39	MET	CB-CA-C	5.49	119.59	110.81
1	2k	201	ILE	N-CA-CB	5.49	118.81	110.58
1	2o	163	ASP	N-CA-C	-5.49	106.42	113.23
1	2u	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	2O	3	VAL	CA-C-N	5.49	131.67	123.05
1	2O	3	VAL	C-N-CA	5.49	131.67	123.05
1	2Z	211	LEU	CA-C-N	5.49	127.64	120.28
1	2Z	211	LEU	C-N-CA	5.49	127.64	120.28
1	33	173	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	37	100	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	3b	190	LEU	CA-C-O	5.49	126.58	120.82
1	3g	161	PHE	CA-C-N	5.49	128.18	120.28
1	3g	161	PHE	C-N-CA	5.49	128.18	120.28
1	3w	177	ALA	N-CA-C	5.49	117.81	110.35
1	3D	188	THR	N-CA-CB	5.49	119.77	110.49
1	3D	193	ASN	CB-CG-ND2	-5.49	108.17	116.40
1	3I	82	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	3I	159	GLU	O-C-N	-5.49	116.42	121.30
1	3Y	168	PHE	CA-C-N	5.49	127.63	120.28
1	3Y	168	PHE	C-N-CA	5.49	127.63	120.28
1	40	103	ASP	CA-CB-CG	-5.49	107.11	112.60
1	4q	54	THR	N-CA-CB	5.49	117.97	110.01
1	4y	130	TYR	CA-C-N	5.49	127.95	120.54
1	4y	130	TYR	C-N-CA	5.49	127.95	120.54
1	4B	43	LEU	CB-CA-C	-5.49	98.84	110.31
1	4W	167	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	4X	162	ARG	CG-CD-NE	-5.49	99.93	112.00
1	4Y	78	ALA	O-C-N	-5.49	115.89	122.15
1	50	23	TRP	CH2-CZ2-CE2	5.49	124.63	117.50
1	50	42	ALA	CA-C-O	5.49	126.30	120.10
1	5b	96	MET	CA-C-N	5.49	129.04	120.75
1	5b	96	MET	C-N-CA	5.49	129.04	120.75
1	5c	68	MET	CA-C-N	5.49	127.63	120.28
1	5c	68	MET	C-N-CA	5.49	127.63	120.28
1	5n	187	GLU	CA-CB-CG	-5.49	103.12	114.10
1	5o	152	ASP	O-C-N	-5.49	115.72	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5p	5	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	5w	141	ILE	CA-CB-CG2	5.49	119.83	110.50
1	5x	132	ARG	O-C-N	-5.49	116.42	122.07
1	5A	138	LEU	N-CA-C	5.49	117.26	111.28
1	5L	171	THR	O-C-N	5.49	127.94	122.12
1	5P	32	PHE	N-CA-C	-5.49	104.13	111.87
1	5S	207	PRO	CA-C-N	5.49	128.18	120.28
1	5S	207	PRO	C-N-CA	5.49	128.18	120.28
1	5T	198	CYS	N-CA-CB	5.49	118.75	110.30
1	5V	59	VAL	N-CA-CB	5.49	116.80	110.49
1	5X	12	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	5Z	15	ILE	N-CA-C	5.49	116.78	109.37
1	69	68	MET	CA-C-N	5.49	127.58	120.44
1	69	68	MET	C-N-CA	5.49	127.58	120.44
1	6k	35	GLU	CB-CG-CD	-5.49	103.27	112.60
1	6q	33	SER	N-CA-C	-5.49	101.85	110.14
1	6H	176	GLN	O-C-N	-5.49	116.96	123.22
1	6M	25	LYS	CA-C-N	5.49	127.48	120.56
1	6M	25	LYS	C-N-CA	5.49	127.48	120.56
1	6Z	179	GLN	CA-C-O	-5.49	114.73	120.55
1	78	203	LYS	O-C-N	-5.49	116.30	122.12
1	7e	49	PRO	CB-CA-C	5.49	120.62	111.56
1	7h	184	TRP	N-CA-C	5.49	117.26	111.28
1	7q	191	VAL	CA-CB-CG2	-5.49	101.07	110.40
1	7A	223	GLY	O-C-N	-5.49	116.28	121.77
1	7C	19	THR	N-CA-C	-5.49	105.31	112.23
1	83	20	LEU	N-CA-C	5.49	117.34	111.36
1	83	219	GLN	CA-C-O	-5.49	113.66	119.97
1	8d	106	GLY	CA-C-O	5.49	126.62	120.03
1	8D	59	VAL	N-CA-C	-5.49	99.98	107.99
1	8O	142	VAL	CA-CB-CG1	5.49	119.73	110.40
1	8T	17	PRO	CB-CA-C	5.49	120.78	112.55
1	9n	133	TRP	N-CA-CB	-5.49	102.02	110.20
1	9u	72	THR	N-CA-C	5.49	117.07	111.14
1	9x	97	ARG	O-C-N	-5.49	116.53	123.17
1	9A	62	HIS	CA-CB-CG	-5.49	108.31	113.80
1	9A	128	GLU	N-CA-C	5.49	116.94	111.07
1	9B	166	ASP	CA-CB-CG	5.49	118.09	112.60
1	9D	65	ALA	CA-C-O	5.49	126.37	120.55
1	a6	80	TRP	CA-C-N	5.49	127.63	120.28
1	a6	80	TRP	C-N-CA	5.49	127.63	120.28
1	ag	149	SER	CA-C-N	5.49	129.64	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	149	SER	C-N-CA	5.49	129.64	120.64
1	am	57	ASN	CA-CB-CG	-5.49	107.11	112.60
1	ao	98	GLU	CA-C-O	-5.49	114.31	119.80
1	as	52	LEU	CA-C-O	5.49	126.37	120.55
1	aF	86	VAL	N-CA-C	5.49	116.63	108.23
1	aI	150	ILE	O-C-N	-5.49	116.71	122.25
1	aI	221	VAL	CA-CB-CG1	5.49	119.73	110.40
1	14	224	PRO	CA-C-N	5.49	132.17	121.41
1	14	224	PRO	C-N-CA	5.49	132.17	121.41
1	aV	211	LEU	CA-C-O	5.49	126.24	120.42
1	b9	97	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	bd	173	ARG	CD-NE-CZ	-5.49	116.72	124.40
1	be	226	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	bf	42	ALA	CA-C-O	-5.49	115.06	120.82
1	bk	132	ARG	NE-CZ-NH2	5.49	124.14	119.20
1	bl	202	LEU	N-CA-C	5.49	117.26	111.28
1	bn	43	LEU	O-C-N	5.49	128.78	122.25
1	bD	101	GLY	CA-C-N	5.49	128.65	120.31
1	bD	101	GLY	C-N-CA	5.49	128.65	120.31
1	bS	143	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	bS	171	THR	N-CA-CB	5.49	118.28	110.16
1	bT	173	ARG	N-CA-CB	5.49	118.03	109.85
1	1b	3	VAL	CB-CA-C	5.49	119.86	111.68
1	c2	58	THR	O-C-N	-5.49	115.26	122.39
1	c3	223	GLY	CA-C-O	-5.49	113.67	121.52
1	1d	112	GLN	N-CA-C	5.49	117.97	111.33
1	cm	22	ALA	N-CA-C	5.49	117.97	111.33
1	co	117	TRP	N-CA-CB	-5.49	101.77	110.28
1	cr	9	GLN	CB-CA-C	5.49	118.54	109.70
1	cv	37	ILE	CA-C-N	5.49	126.70	119.84
1	cv	37	ILE	C-N-CA	5.49	126.70	119.84
1	1f	45	GLU	N-CA-C	5.49	117.70	111.11
1	cH	123	PRO	O-C-N	-5.49	116.95	123.10
1	1h	199	LYS	N-CA-CB	5.49	117.97	110.01
1	d5	42	ALA	CA-C-O	-5.49	115.24	121.00
1	d5	214	MET	CA-C-N	5.49	128.65	120.31
1	d5	214	MET	C-N-CA	5.49	128.65	120.31
1	df	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	do	64	ALA	CA-C-N	5.49	128.09	120.29
1	do	64	ALA	C-N-CA	5.49	128.09	120.29
1	dv	72	THR	CA-C-N	5.49	127.98	120.46
1	dv	72	THR	C-N-CA	5.49	127.98	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dw	165	VAL	CA-C-N	5.49	128.09	120.29
1	dw	165	VAL	C-N-CA	5.49	128.09	120.29
1	1l	210	THR	CA-C-O	5.49	127.78	121.47
1	dy	139	ASN	CB-CA-C	-5.49	102.26	110.88
1	dB	73	ILE	N-CA-CB	-5.49	103.07	110.54
1	dB	90	PRO	N-CA-C	5.49	119.82	111.15
1	dD	220	GLY	O-C-N	-5.49	115.56	122.70
1	dK	102	SER	N-CA-C	5.49	118.19	111.82
1	dL	137	GLY	O-C-N	-5.49	116.92	122.19
1	dP	166	ASP	N-CA-C	5.49	117.26	111.28
1	dT	132	ARG	NE-CZ-NH2	5.49	124.14	119.20
1	e0	115	ILE	CA-C-O	5.49	126.44	120.57
1	ea	64	ALA	CB-CA-C	5.49	119.50	110.88
1	ei	179	GLN	CA-C-N	5.49	127.63	120.28
1	ei	179	GLN	C-N-CA	5.49	127.63	120.28
1	ej	95	GLN	OE1-CD-NE2	5.49	128.09	122.60
1	ek	197	ASP	CA-C-N	5.49	127.58	120.44
1	ek	197	ASP	C-N-CA	5.49	127.58	120.44
1	er	204	ALA	CA-C-N	5.49	127.64	120.28
1	er	204	ALA	C-N-CA	5.49	127.64	120.28
1	ez	12	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	eI	154	ARG	O-C-N	-5.49	116.79	123.16
1	eJ	173	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	eO	222	GLY	CA-C-N	5.49	130.49	121.87
1	eO	222	GLY	C-N-CA	5.49	130.49	121.87
1	eP	50	GLN	N-CA-C	5.49	118.02	111.71
1	fs	191	VAL	N-CA-CB	5.49	118.00	110.54
1	c	127	GLY	N-CA-C	5.49	118.87	112.50
1	l	130	TYR	CA-CB-CG	5.49	123.78	113.90
1	m	183	ASN	CA-C-O	5.49	126.37	120.55
1	o	76	GLU	CB-CG-CD	5.49	121.93	112.60
1	Q	66	MET	O-C-N	-5.49	116.38	122.09
1	T	33	SER	CA-C-O	-5.49	115.41	120.13
1	9	24	VAL	CA-C-N	5.49	127.95	120.54
1	9	24	VAL	C-N-CA	5.49	127.95	120.54
1	gr	26	VAL	CA-C-O	5.49	126.67	120.85
1	gx	92	GLU	CA-C-N	5.49	126.70	119.84
1	gx	92	GLU	C-N-CA	5.49	126.70	119.84
1	gF	136	LEU	CA-C-O	5.49	126.56	120.63
1	gF	192	GLN	CG-CD-NE2	-5.49	108.17	116.40
1	gM	41	SER	CA-CB-OG	5.49	122.07	111.10
1	gV	117	TRP	O-C-N	-5.49	116.42	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hc	32	PHE	CA-C-O	5.49	126.42	119.95
1	hf	200	THR	CB-CA-C	-5.49	101.68	110.79
1	hq	107	THR	CA-C-O	5.49	125.61	119.41
1	hw	19	THR	N-CA-CB	5.49	118.28	110.16
1	hD	96	MET	O-C-N	5.49	128.41	122.15
1	1M	76	GLU	CA-C-N	5.49	128.08	120.29
1	1M	76	GLU	C-N-CA	5.49	128.08	120.29
1	hU	210	THR	N-CA-C	5.49	117.96	110.55
1	i6	145	TYR	N-CA-C	5.49	118.77	111.75
1	ib	25	LYS	CA-C-N	5.49	127.68	120.60
1	ib	25	LYS	C-N-CA	5.49	127.68	120.60
1	1R	75	GLU	N-CA-C	5.49	117.26	111.28
1	iS	226	HIS	CA-CB-CG	-5.49	108.31	113.80
1	jj	177	ALA	N-CA-C	5.49	122.49	110.80
1	js	48	THR	N-CA-CB	5.49	115.69	109.49
1	jY	210	THR	N-CA-C	5.49	117.77	110.53
1	k1	119	THR	CA-CB-OG1	5.49	117.83	109.60
1	ku	68	MET	CA-C-N	5.49	127.63	120.28
1	ku	68	MET	C-N-CA	5.49	127.63	120.28
1	kI	56	LEU	N-CA-CB	-5.49	102.06	110.12
1	lz	84	HIS	O-C-N	-5.49	115.11	121.47
1	2w	76	GLU	O-C-N	-5.49	115.89	122.15
1	2K	158	LYS	N-CA-C	-5.49	106.59	113.72
1	2Z	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	35	229	ARG	CA-C-N	5.49	128.76	120.75
1	35	229	ARG	C-N-CA	5.49	128.76	120.75
1	3G	86	VAL	CA-C-O	-5.49	114.58	121.11
1	3S	70	LYS	O-C-N	-5.49	115.89	122.15
1	3U	132	ARG	CA-C-O	-5.49	114.70	120.63
1	3Z	82	ARG	N-CA-CB	-5.49	101.28	110.39
1	4i	32	PHE	CA-C-N	5.49	128.47	120.51
1	4i	32	PHE	C-N-CA	5.49	128.47	120.51
1	4k	102	SER	O-C-N	-5.49	114.89	122.46
1	4t	5	ASN	N-CA-C	5.49	117.17	108.67
1	4J	215	MET	O-C-N	-5.49	116.30	122.12
1	55	152	ASP	CA-C-N	5.49	128.06	120.49
1	55	152	ASP	C-N-CA	5.49	128.06	120.49
1	5g	10	MET	CG-SD-CE	-5.49	88.83	100.90
1	5s	12	HIS	CB-CG-CD2	-5.49	124.07	131.20
1	5t	43	LEU	CA-C-N	5.49	131.39	122.67
1	5t	43	LEU	C-N-CA	5.49	131.39	122.67
1	5B	20	LEU	CA-C-N	5.49	128.08	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5B	20	LEU	C-N-CA	5.49	128.08	120.29
1	6i	92	GLU	CA-C-N	5.49	126.70	119.84
1	6i	92	GLU	C-N-CA	5.49	126.70	119.84
1	6k	170	LYS	O-C-N	5.49	127.72	122.07
1	6B	143	ARG	NE-CZ-NH1	-5.49	116.01	121.50
1	6U	196	PRO	N-CA-C	5.49	123.77	112.47
1	6V	219	GLN	O-C-N	-5.49	116.12	122.87
1	7f	191	VAL	CA-C-N	5.49	127.63	120.28
1	7f	191	VAL	C-N-CA	5.49	127.63	120.28
1	7q	5	ASN	N-CA-CB	-5.49	102.69	110.81
1	7x	157	PRO	N-CA-CB	-5.49	97.49	103.25
1	7D	213	GLU	O-C-N	-5.49	116.42	122.07
1	7F	9	GLN	CB-CG-CD	5.49	121.93	112.60
1	7N	39	MET	CG-SD-CE	-5.49	88.83	100.90
1	7P	129	ILE	CB-CA-C	5.49	121.10	112.16
1	8I	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	8P	66	MET	CA-C-O	5.49	126.58	120.82
1	8R	139	ASN	CA-CB-CG	-5.49	107.11	112.60
1	8V	82	ARG	CA-C-N	5.49	128.65	120.31
1	8V	82	ARG	C-N-CA	5.49	128.65	120.31
1	98	98	GLU	CA-C-O	-5.49	114.63	120.23
1	99	210	THR	N-CA-CB	5.49	118.11	110.26
1	9k	167	ARG	O-C-N	5.49	127.94	122.12
1	9o	194	ALA	O-C-N	-5.49	115.90	122.65
1	9p	70	LYS	O-C-N	-5.49	115.89	122.15
1	9s	154	ARG	CA-C-N	5.49	129.35	121.50
1	9s	154	ARG	C-N-CA	5.49	129.35	121.50
1	9z	47	ALA	CA-C-N	5.49	129.81	121.03
1	9z	47	ALA	C-N-CA	5.49	129.81	121.03
1	aE	93	PRO	O-C-N	-5.49	115.92	122.89
1	aL	227	LYS	CB-CA-C	-5.49	100.27	109.65
1	aU	29	GLU	CG-CD-OE1	5.49	131.02	118.40
1	aV	53	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	aW	13	GLN	CA-C-N	5.49	129.27	121.42
1	aW	13	GLN	C-N-CA	5.49	129.27	121.42
1	aX	139	ASN	O-C-N	-5.49	116.42	122.07
1	bf	68	MET	CA-C-O	5.49	126.58	120.82
1	bh	124	ILE	O-C-N	-5.49	117.18	121.46
1	bs	48	THR	CA-C-N	5.49	125.58	119.32
1	bs	48	THR	C-N-CA	5.49	125.58	119.32
1	c4	85	PRO	CA-C-O	-5.49	115.34	121.32
1	cq	173	ARG	O-C-N	-5.49	116.38	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cr	113	GLU	N-CA-C	5.49	117.26	111.28
1	cw	110	THR	N-CA-CB	5.49	119.24	110.46
1	1g	132	ARG	NE-CZ-NH2	5.49	124.14	119.20
1	cW	212	GLU	N-CA-C	5.49	117.26	111.28
1	d2	80	TRP	CH2-CZ2-CE2	-5.49	110.37	117.50
1	d9	181	VAL	CA-C-N	5.49	129.91	121.19
1	d9	181	VAL	C-N-CA	5.49	129.91	121.19
1	dp	120	HIS	CA-CB-CG	-5.49	108.31	113.80
1	dP	220	GLY	CA-C-N	5.49	128.80	120.95
1	dP	220	GLY	C-N-CA	5.49	128.80	120.95
1	dR	62	HIS	CA-CB-CG	-5.49	108.31	113.80
1	ee	192	GLN	CA-C-O	5.49	126.24	120.42
1	eg	11	VAL	O-C-N	-5.49	116.84	122.82
1	eH	161	PHE	N-CA-CB	-5.49	102.03	110.20
1	fa	45	GLU	CA-C-O	-5.49	114.34	120.54
1	fc	224	PRO	CB-CA-C	-5.49	103.14	110.88
1	fr	28	GLU	CA-C-N	5.49	128.08	120.29
1	fr	28	GLU	C-N-CA	5.49	128.08	120.29
1	fs	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	fs	108	THR	N-CA-C	5.49	117.34	111.36
1	1A	87	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	X	91	ILE	CA-C-N	5.49	134.26	122.90
1	X	91	ILE	C-N-CA	5.49	134.26	122.90
1	g8	126	VAL	CA-C-N	5.49	126.03	119.94
1	g8	126	VAL	C-N-CA	5.49	126.03	119.94
1	gb	214	MET	N-CA-C	5.49	119.07	112.38
1	1C	22	ALA	N-CA-CB	-5.49	101.77	110.22
1	gu	73	ILE	CB-CA-C	5.49	119.55	112.14
1	gN	226	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	gT	206	GLY	CA-C-N	5.49	126.70	119.84
1	gT	206	GLY	C-N-CA	5.49	126.70	119.84
1	1G	24	VAL	O-C-N	-5.49	116.55	121.87
1	hv	82	ARG	CA-C-N	5.49	127.57	120.44
1	hv	82	ARG	C-N-CA	5.49	127.57	120.44
1	hz	99	PRO	CA-C-N	5.49	132.03	122.82
1	hz	99	PRO	C-N-CA	5.49	132.03	122.82
1	hz	182	LYS	N-CA-C	5.49	117.26	111.28
1	1K	150	ILE	O-C-N	-5.49	116.45	121.94
1	hR	53	ASN	CA-CB-CG	-5.49	107.11	112.60
1	1M	155	GLN	O-C-N	-5.49	117.55	123.42
1	i1	41	SER	CA-C-N	5.49	127.63	120.28
1	i1	41	SER	C-N-CA	5.49	127.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i1	190	LEU	CA-C-N	5.49	131.84	121.97
1	i1	190	LEU	C-N-CA	5.49	131.84	121.97
1	i3	52	LEU	N-CA-C	5.49	117.97	111.33
1	i5	195	ASN	N-CA-C	5.49	117.46	109.84
1	i8	70	LYS	CA-C-O	5.49	126.36	120.55
1	if	67	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	ik	167	ARG	NE-CZ-NH1	5.49	126.98	121.50
1	iw	166	ASP	CA-C-N	5.49	127.57	120.44
1	iw	166	ASP	C-N-CA	5.49	127.57	120.44
1	iy	221	VAL	N-CA-C	5.49	116.13	108.89
1	iC	195	ASN	CA-CB-CG	5.49	118.08	112.60
1	iP	162	ARG	N-CA-C	5.49	117.26	111.28
1	1S	193	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	iV	8	GLY	CA-C-N	5.49	132.02	121.54
1	iV	8	GLY	C-N-CA	5.49	132.02	121.54
1	j2	86	VAL	N-CA-CB	5.49	117.48	110.13
1	j5	78	ALA	O-C-N	-5.49	116.31	122.12
1	jh	170	LYS	CA-C-N	5.49	127.95	120.54
1	jh	170	LYS	C-N-CA	5.49	127.95	120.54
1	jj	36	VAL	CA-CB-CG2	5.49	119.73	110.40
1	jy	219	GLN	O-C-N	-5.49	116.24	123.21
1	jz	23	TRP	N-CA-C	5.49	117.26	111.28
1	jP	182	LYS	N-CA-C	5.49	117.26	111.28
1	jS	69	LEU	N-CA-C	5.49	117.34	111.36
1	jT	223	GLY	CA-C-N	5.49	125.41	119.76
1	jT	223	GLY	C-N-CA	5.49	125.41	119.76
1	k9	23	TRP	O-C-N	-5.49	116.31	122.12
1	k9	108	THR	N-CA-C	-5.49	105.90	112.59
1	kn	178	SER	CA-C-N	5.49	127.57	120.44
1	kn	178	SER	C-N-CA	5.49	127.57	120.44
1	kr	36	VAL	CA-C-N	5.49	124.72	120.33
1	kr	36	VAL	C-N-CA	5.49	124.72	120.33
1	kr	112	GLN	N-CA-C	5.49	117.97	111.33
1	ku	29	GLU	N-CA-C	5.49	118.09	111.40
1	kI	128	GLU	O-C-N	-5.49	115.90	122.15
1	kM	196	PRO	O-C-N	-5.49	115.14	122.22
1	kN	184	TRP	CA-C-N	5.49	127.63	120.28
1	kN	184	TRP	C-N-CA	5.49	127.63	120.28
1	kS	12	HIS	CA-CB-CG	-5.49	108.31	113.80
1	kZ	113	GLU	O-C-N	-5.49	115.90	122.15
1	l9	179	GLN	N-CA-CB	5.49	118.18	110.12
1	lb	184	TRP	CB-CG-CD2	5.49	134.48	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lj	220	GLY	CA-C-N	5.49	127.92	120.63
1	lj	220	GLY	C-N-CA	5.49	127.92	120.63
1	lk	226	HIS	CG-CD2-NE2	5.49	112.69	107.20
1	29	20	LEU	N-CA-C	-5.49	105.22	111.14
1	lC	139	ASN	CA-C-O	5.49	126.36	120.55
1	lK	19	THR	CA-C-N	5.49	127.57	120.44
1	lK	19	THR	C-N-CA	5.49	127.57	120.44
1	lM	51	ASP	CA-C-N	5.49	128.65	120.31
1	lM	51	ASP	C-N-CA	5.49	128.65	120.31
1	lP	130	TYR	N-CA-C	5.49	118.18	111.82
1	2z	136	LEU	N-CA-C	5.49	116.94	111.07
1	2z	143	ARG	CA-C-N	5.49	127.63	120.28
1	2z	143	ARG	C-N-CA	5.49	127.63	120.28
1	2E	132	ARG	CD-NE-CZ	-5.49	116.72	124.40
1	2F	58	THR	N-CA-C	-5.49	106.59	113.28
1	2G	72	THR	N-CA-CB	5.49	117.96	110.01
1	2P	115	ILE	N-CA-C	5.49	115.69	110.42
1	2R	84	HIS	CE1-NE2-CD2	-5.49	103.52	109.00
1	2W	37	ILE	N-CA-CB	5.49	114.19	110.52
1	2Z	20	LEU	CA-C-N	5.49	127.90	120.38
1	2Z	20	LEU	C-N-CA	5.49	127.90	120.38
1	3b	173	ARG	NH1-CZ-NH2	-5.49	112.17	119.30
1	3c	59	VAL	N-CA-C	5.49	116.87	110.62
1	3t	167	ARG	O-C-N	5.49	127.93	122.12
1	3I	195	ASN	CA-C-N	5.49	126.70	119.84
1	3I	195	ASN	C-N-CA	5.49	126.70	119.84
1	3K	164	TYR	O-C-N	-5.49	116.39	122.09
1	3S	178	SER	CA-C-N	5.49	128.18	120.28
1	3S	178	SER	C-N-CA	5.49	128.18	120.28
1	3Z	204	ALA	CA-C-N	5.49	127.57	120.44
1	3Z	204	ALA	C-N-CA	5.49	127.57	120.44
1	47	122	PRO	N-CD-CG	5.49	110.38	103.80
1	4d	192	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	4f	12	HIS	N-CA-C	5.49	117.37	110.24
1	4z	160	PRO	N-CA-CB	5.49	108.12	103.35
1	4F	97	ARG	CD-NE-CZ	5.49	132.08	124.40
1	4Q	82	ARG	CA-C-N	5.49	127.63	120.28
1	4Q	82	ARG	C-N-CA	5.49	127.63	120.28
1	52	30	LYS	CB-CA-C	-5.49	100.28	109.27
1	54	155	GLN	CG-CD-NE2	5.49	124.63	116.40
1	55	22	ALA	N-CA-C	5.49	118.02	111.71
1	56	225	GLY	CA-C-O	-5.49	116.58	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	57	140	LYS	N-CA-C	5.49	117.06	111.14
1	5c	75	GLU	N-CA-C	5.49	117.69	111.11
1	5d	7	GLN	CB-CG-CD	5.49	121.92	112.60
1	5d	117	TRP	CA-C-O	5.49	126.02	119.60
1	5j	62	HIS	CB-CG-ND1	-5.49	114.47	122.70
1	5k	182	LYS	O-C-N	-5.49	116.42	122.07
1	5q	61	GLY	O-C-N	-5.49	117.70	122.91
1	5w	201	ILE	O-C-N	-5.49	116.53	121.91
1	5S	25	LYS	CB-CA-C	-5.49	101.52	110.85
1	5T	54	THR	CA-C-N	5.49	127.63	120.28
1	5T	54	THR	C-N-CA	5.49	127.63	120.28
1	61	72	THR	CA-C-O	5.49	126.36	120.55
1	62	16	SER	O-C-N	-5.49	115.61	121.42
1	67	48	THR	CA-C-N	5.49	126.70	119.84
1	67	48	THR	C-N-CA	5.49	126.70	119.84
1	6c	12	HIS	CA-CB-CG	-5.49	108.31	113.80
1	6d	167	ARG	O-C-N	-5.49	116.31	122.12
1	6l	90	PRO	CA-C-N	5.49	127.98	120.46
1	6l	90	PRO	C-N-CA	5.49	127.98	120.46
1	6q	173	ARG	NE-CZ-NH2	5.49	124.14	119.20
1	6q	214	MET	CA-C-O	5.49	126.28	119.97
1	6s	103	ASP	CA-C-N	5.49	127.97	120.46
1	6s	103	ASP	C-N-CA	5.49	127.97	120.46
1	6t	73	ILE	O-C-N	-5.49	115.60	121.80
1	6x	55	MET	CA-C-N	5.49	127.63	120.28
1	6x	55	MET	C-N-CA	5.49	127.63	120.28
1	6D	131	LYS	N-CA-CB	-5.49	102.06	110.12
1	6G	169	TYR	CA-C-O	-5.49	114.71	120.63
1	73	80	TRP	CA-CB-CG	5.49	124.02	113.60
1	7b	53	ASN	N-CA-C	5.49	116.94	111.07
1	7e	152	ASP	CA-CB-CG	-5.49	107.11	112.60
1	7j	100	ARG	NE-CZ-NH1	5.49	126.98	121.50
1	7n	12	HIS	CA-CB-CG	5.49	119.28	113.80
1	7o	188	THR	CA-C-N	5.49	127.63	120.28
1	7o	188	THR	C-N-CA	5.49	127.63	120.28
1	7s	115	ILE	CB-CA-C	5.49	121.10	112.16
1	7F	216	THR	OG1-CB-CG2	-5.49	98.33	109.30
1	7I	99	PRO	N-CD-CG	5.49	111.43	103.20
1	7R	9	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	84	12	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	84	91	ILE	O-C-N	-5.49	117.11	122.93
1	87	150	ILE	CA-C-O	5.49	126.22	119.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	87	190	LEU	O-C-N	-5.49	116.42	122.07
1	8d	173	ARG	NE-CZ-NH1	5.49	126.99	121.50
1	8f	72	THR	CA-C-O	5.49	126.33	120.24
1	8u	226	HIS	CB-CG-CD2	-5.49	124.07	131.20
1	8H	12	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
1	8M	62	HIS	O-C-N	-5.49	115.75	122.55
1	8P	18	ARG	NH1-CZ-NH2	-5.49	112.17	119.30
1	9g	192	GLN	CA-C-N	5.49	131.43	122.65
1	9g	192	GLN	C-N-CA	5.49	131.43	122.65
1	9n	7	GLN	O-C-N	-5.49	116.00	122.58
1	9q	62	HIS	N-CA-C	5.49	118.76	111.30
1	9H	57	ASN	CA-CB-CG	-5.49	107.11	112.60
1	9J	50	GLN	N-CA-CB	5.49	117.97	110.01
1	9S	139	ASN	CB-CG-OD1	5.49	131.77	120.80
1	9W	19	THR	CA-C-N	5.49	127.57	120.44
1	9W	19	THR	C-N-CA	5.49	127.57	120.44
1	Z	68	MET	CG-SD-CE	-5.49	88.83	100.90
1	ad	39	MET	CG-SD-CE	-5.49	88.83	100.90
1	an	15	ILE	CA-CB-CG2	5.49	119.83	110.50
1	az	108	THR	CA-CB-OG1	5.49	117.83	109.60
1	aE	45	GLU	CB-CG-CD	-5.49	103.28	112.60
1	aH	45	GLU	N-CA-CB	5.49	118.28	109.28
1	aK	24	VAL	N-CA-CB	5.49	118.00	110.54
1	aM	64	ALA	N-CA-C	5.49	117.26	111.28
1	b2	16	SER	N-CA-C	5.49	117.65	110.08
1	b2	139	ASN	N-CA-C	5.49	117.26	111.28
1	bh	155	GLN	O-C-N	-5.49	115.29	122.59
1	bi	33	SER	CA-C-O	-5.49	115.05	120.26
1	bq	25	LYS	O-C-N	-5.49	116.31	122.12
1	br	12	HIS	CB-CG-CD2	-5.49	124.07	131.20
1	bJ	38	PRO	CA-C-N	5.49	127.63	120.28
1	bJ	38	PRO	C-N-CA	5.49	127.63	120.28
1	bO	87	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	bQ	68	MET	N-CA-C	5.49	117.26	111.28
1	bS	223	GLY	CA-C-N	5.49	126.70	119.84
1	bS	223	GLY	C-N-CA	5.49	126.70	119.84
1	bU	97	ARG	NE-CZ-NH2	-5.49	114.26	119.20
1	bU	132	ARG	N-CA-C	-5.49	105.20	111.07
1	c7	85	PRO	N-CA-CB	5.49	109.01	103.25
1	c7	228	ALA	N-CA-C	5.49	117.81	110.35
1	ca	57	ASN	CA-C-O	5.49	126.36	120.55
1	1d	73	ILE	CA-C-N	5.49	127.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1d	73	ILE	C-N-CA	5.49	127.57	120.44
1	cA	218	CYS	CB-CA-C	5.49	121.33	110.42
1	cQ	150	ILE	CA-CB-CG1	5.49	119.73	110.40
1	cR	24	VAL	O-C-N	-5.49	116.53	121.91
1	cS	200	THR	CA-CB-OG1	5.49	117.83	109.60
1	cU	185	MET	CA-C-N	5.49	127.63	120.28
1	cU	185	MET	C-N-CA	5.49	127.63	120.28
1	cW	214	MET	O-C-N	-5.49	116.31	122.12
1	cY	200	THR	CA-C-O	5.49	126.28	119.97
1	dh	176	GLN	N-CA-CB	5.49	119.76	110.49
1	dt	176	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	dx	117	TRP	N-CA-C	5.49	117.06	111.14
1	1l	70	LYS	N-CA-C	5.49	117.26	111.28
1	dM	95	GLN	CA-C-N	5.49	129.48	121.31
1	dM	95	GLN	C-N-CA	5.49	129.48	121.31
1	dT	32	PHE	CA-C-O	5.49	126.42	119.95
1	ec	88	ALA	CA-C-O	5.49	126.36	120.38
1	ei	145	TYR	N-CA-C	5.49	118.09	111.40
1	el	7	GLN	CB-CG-CD	-5.49	103.28	112.60
1	eB	202	LEU	N-CA-C	5.49	117.06	111.14
1	eH	59	VAL	CB-CA-C	5.49	119.13	111.34
1	eI	93	PRO	N-CA-C	5.49	123.77	112.47
1	eN	195	ASN	CA-CB-CG	5.49	118.08	112.60
1	f3	202	LEU	O-C-N	-5.49	116.31	122.12
1	1v	69	LEU	CA-C-O	-5.49	115.06	120.82
1	fm	210	THR	OG1-CB-CG2	-5.49	98.33	109.30
1	fI	175	GLU	CB-CA-C	5.49	118.83	109.72
1	fL	181	VAL	O-C-N	-5.49	116.19	121.90
1	fZ	100	ARG	O-C-N	-5.49	115.52	122.43
1	e	19	THR	CA-C-N	5.49	127.57	120.44
1	e	19	THR	C-N-CA	5.49	127.57	120.44
1	p	75	GLU	O-C-N	-5.49	116.42	122.07
1	t	217	ALA	N-CA-C	5.49	116.94	111.07
1	x	6	LEU	N-CA-C	5.49	117.97	111.33
1	3	195	ASN	OD1-CG-ND2	-5.49	117.11	122.60
1	J	176	GLN	OE1-CD-NE2	-5.49	117.11	122.60
1	T	162	ARG	NH1-CZ-NH2	5.49	126.43	119.30
1	gK	207	PRO	O-C-N	-5.48	114.86	122.37
1	gX	68	MET	O-C-N	-5.48	115.80	122.22
1	h1	79	GLU	CA-C-N	5.48	127.63	120.28
1	h1	79	GLU	C-N-CA	5.48	127.63	120.28
1	h4	48	THR	O-C-N	-5.48	114.89	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	204	ALA	N-CA-C	5.48	117.26	111.28
1	he	55	MET	CA-C-N	5.48	127.63	120.28
1	he	55	MET	C-N-CA	5.48	127.63	120.28
1	hj	13	GLN	CA-C-N	5.48	128.50	120.71
1	hj	13	GLN	C-N-CA	5.48	128.50	120.71
1	hJ	66	MET	N-CA-C	5.48	116.94	111.07
1	1L	47	ALA	N-CA-CB	5.48	118.10	110.04
1	hO	68	MET	N-CA-C	5.48	117.26	111.28
1	hP	140	LYS	CA-C-N	5.48	127.47	120.56
1	hP	140	LYS	C-N-CA	5.48	127.47	120.56
1	1N	96	MET	N-CA-C	5.48	118.30	110.24
1	it	177	ALA	N-CA-C	5.48	117.81	110.35
1	jt	180	GLU	CA-C-N	5.48	127.47	120.56
1	jt	180	GLU	C-N-CA	5.48	127.47	120.56
1	ju	36	VAL	CA-C-N	5.48	124.72	120.33
1	ju	36	VAL	C-N-CA	5.48	124.72	120.33
1	jW	209	ALA	CB-CA-C	5.48	118.45	109.90
1	k4	27	VAL	CA-C-N	5.48	127.90	120.44
1	k4	27	VAL	C-N-CA	5.48	127.90	120.44
1	k7	181	VAL	CA-CB-CG1	5.48	119.72	110.40
1	kc	66	MET	N-CA-C	5.48	117.69	111.11
1	kB	9	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	kF	30	LYS	CA-C-N	5.48	127.94	120.54
1	kF	30	LYS	C-N-CA	5.48	127.94	120.54
1	kQ	63	GLN	CA-C-N	5.48	127.57	120.44
1	kQ	63	GLN	C-N-CA	5.48	127.57	120.44
1	l0	90	PRO	O-C-N	-5.48	115.24	122.64
1	ly	179	GLN	CB-CG-CD	5.48	121.92	112.60
1	lD	146	SER	O-C-N	-5.48	114.18	121.64
1	lI	4	GLN	CB-CG-CD	-5.48	103.28	112.60
1	2p	143	ARG	CA-C-O	5.48	126.23	120.42
1	2z	144	MET	N-CA-C	5.48	117.26	111.28
1	2I	92	GLU	N-CA-C	5.48	118.10	110.20
1	2L	90	PRO	N-CA-C	5.48	119.69	111.14
1	2Y	14	ALA	N-CA-C	5.48	117.61	110.43
1	2Z	70	LYS	N-CA-C	5.48	117.26	111.28
1	3B	68	MET	CA-C-O	5.48	126.58	120.82
1	3E	16	SER	CA-C-O	-5.48	115.16	119.66
1	3G	146	SER	N-CA-C	5.48	116.60	109.64
1	3O	166	ASP	CA-C-O	5.48	126.23	120.42
1	5d	124	ILE	O-C-N	-5.48	115.69	120.96
1	5Q	47	ALA	O-C-N	-5.48	115.69	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5W	131	LYS	CA-C-N	5.48	127.94	120.54
1	5W	131	LYS	C-N-CA	5.48	127.94	120.54
1	62	160	PRO	N-CA-CB	-5.48	97.49	103.25
1	6c	142	VAL	CA-C-O	-5.48	114.96	121.05
1	6p	97	ARG	NH1-CZ-NH2	-5.48	112.17	119.30
1	6r	226	HIS	CB-CG-CD2	-5.48	124.07	131.20
1	6z	127	GLY	CA-C-N	5.48	127.90	120.44
1	6z	127	GLY	C-N-CA	5.48	127.90	120.44
1	6A	191	VAL	O-C-N	-5.48	116.53	121.91
1	6L	18	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	6N	36	VAL	O-C-N	-5.48	116.46	121.94
1	6T	87	HIS	CA-C-N	5.48	128.55	120.82
1	6T	87	HIS	C-N-CA	5.48	128.55	120.82
1	6U	129	ILE	N-CA-C	5.48	115.68	110.42
1	7c	50	GLN	CA-C-N	5.48	129.96	120.58
1	7c	50	GLN	C-N-CA	5.48	129.96	120.58
1	7E	67	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	7J	53	ASN	CA-C-N	5.48	127.94	120.54
1	7J	53	ASN	C-N-CA	5.48	127.94	120.54
1	7K	7	GLN	CB-CG-CD	-5.48	103.28	112.60
1	7U	123	PRO	CB-CA-C	-5.48	102.51	111.56
1	8g	85	PRO	N-CA-C	5.48	123.77	112.47
1	8n	201	ILE	N-CA-CB	5.48	116.97	110.55
1	8y	70	LYS	N-CA-C	5.48	116.94	111.07
1	8I	9	GLN	N-CA-C	-5.48	106.50	114.12
1	8M	100	ARG	O-C-N	-5.48	115.10	122.94
1	9e	105	ALA	CA-C-O	5.48	126.13	119.11
1	9n	12	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	9v	59	VAL	CB-CA-C	5.48	118.68	111.33
1	9I	132	ARG	CB-CA-C	5.48	119.89	110.79
1	9R	109	SER	CA-C-O	-5.48	114.44	120.36
1	ae	112	GLN	O-C-N	-5.48	115.80	122.22
1	ai	67	GLN	CA-C-N	5.48	127.63	120.28
1	ai	67	GLN	C-N-CA	5.48	127.63	120.28
1	ay	5	ASN	OD1-CG-ND2	5.48	128.08	122.60
1	aG	192	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	aM	178	SER	CA-C-N	5.48	127.63	120.28
1	aM	178	SER	C-N-CA	5.48	127.63	120.28
1	aV	42	ALA	N-CA-C	5.48	118.18	111.82
1	bf	186	THR	O-C-N	-5.48	116.31	122.12
1	bs	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	bA	141	ILE	O-C-N	-5.48	116.55	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1d	172	LEU	N-CA-C	5.48	118.02	111.71
1	cr	84	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	cR	163	ASP	CA-CB-CG	5.48	118.08	112.60
1	cV	109	SER	N-CA-CB	5.48	119.37	110.43
1	cX	218	CYS	N-CA-CB	5.48	119.76	110.49
1	d1	193	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	1j	197	ASP	CA-C-N	5.48	127.57	120.44
1	1j	197	ASP	C-N-CA	5.48	127.57	120.44
1	de	130	TYR	CA-C-O	5.48	126.58	120.82
1	dw	73	ILE	N-CA-C	5.48	116.21	110.62
1	dw	210	THR	CA-C-N	5.48	129.05	120.82
1	dw	210	THR	C-N-CA	5.48	129.05	120.82
1	dS	184	TRP	CA-C-N	5.48	127.57	120.44
1	dS	184	TRP	C-N-CA	5.48	127.57	120.44
1	e2	139	ASN	N-CA-C	5.48	117.26	111.28
1	ed	139	ASN	N-CA-C	5.48	117.26	111.28
1	ee	30	LYS	N-CA-C	5.48	119.06	111.71
1	ef	73	ILE	CB-CA-C	-5.48	104.74	112.14
1	1t	5	ASN	N-CA-C	5.48	118.27	110.10
1	f8	230	VAL	CA-CB-CG2	5.48	119.72	110.40
1	g	101	GLY	O-C-N	5.48	127.45	122.19
1	z	25	LYS	N-CA-CB	5.48	117.96	110.01
1	3	162	ARG	NH1-CZ-NH2	-5.48	112.17	119.30
1	1D	22	ALA	CA-C-N	5.48	127.57	120.44
1	1D	22	ALA	C-N-CA	5.48	127.57	120.44
1	gs	197	ASP	O-C-N	-5.48	114.57	122.36
1	gt	209	ALA	O-C-N	-5.48	116.07	122.81
1	gC	55	MET	N-CA-C	5.48	118.02	111.71
1	gO	195	ASN	N-CA-C	5.48	117.96	110.01
1	h3	181	VAL	CA-C-N	5.48	127.63	120.28
1	h3	181	VAL	C-N-CA	5.48	127.63	120.28
1	hl	15	ILE	N-CA-C	5.48	116.48	109.30
1	hp	83	LEU	O-C-N	-5.48	116.31	122.12
1	hz	133	TRP	N-CA-C	5.48	117.25	111.28
1	hC	11	VAL	N-CA-CB	5.48	117.25	111.00
1	1L	31	ALA	O-C-N	-5.48	115.30	122.59
1	hW	9	GLN	N-CA-CB	5.48	119.76	110.49
1	hW	124	ILE	N-CA-CB	5.48	117.28	111.20
1	hX	132	ARG	CA-C-O	-5.48	114.61	120.42
1	1N	24	VAL	CA-CB-CG1	5.48	119.72	110.40
1	iu	115	ILE	N-CA-CB	5.48	118.00	110.54
1	iw	156	GLY	CA-C-N	5.48	126.69	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iw	156	GLY	C-N-CA	5.48	126.69	119.84
1	iC	37	ILE	N-CA-C	5.48	118.93	112.35
1	iE	16	SER	N-CA-C	5.48	117.49	109.71
1	iI	158	LYS	N-CA-C	-5.48	105.28	112.41
1	iZ	109	SER	CA-C-N	5.48	130.95	120.97
1	iZ	109	SER	C-N-CA	5.48	130.95	120.97
1	j0	23	TRP	CA-CB-CG	5.48	124.02	113.60
1	j1	131	LYS	CA-CB-CG	5.48	125.06	114.10
1	j4	14	ALA	CA-C-O	5.48	127.18	121.15
1	je	173	ARG	CG-CD-NE	-5.48	99.94	112.00
1	jm	103	ASP	N-CA-C	5.48	118.18	111.82
1	jn	204	ALA	N-CA-C	5.48	117.26	111.28
1	jo	35	GLU	CA-C-N	5.48	129.29	120.30
1	jo	35	GLU	C-N-CA	5.48	129.29	120.30
1	ju	48	THR	N-CA-CB	5.48	115.69	109.49
1	jG	119	THR	N-CA-C	-5.48	105.81	112.88
1	jK	146	SER	CA-C-O	-5.48	114.14	119.51
1	1Y	13	GLN	CG-CD-NE2	5.48	124.62	116.40
1	k4	178	SER	N-CA-C	5.48	117.97	110.24
1	km	142	VAL	O-C-N	-5.48	116.55	121.87
1	ks	48	THR	N-CA-CB	5.48	116.10	109.74
1	ku	9	GLN	O-C-N	-5.48	116.20	122.89
1	ky	195	ASN	CB-CA-C	5.48	118.45	109.46
1	kC	207	PRO	CB-CA-C	-5.48	103.06	110.52
1	kE	229	ARG	NE-CZ-NH2	5.48	124.14	119.20
1	kI	7	GLN	O-C-N	-5.48	116.06	123.19
1	l2	178	SER	O-C-N	-5.48	116.07	122.81
1	lb	79	GLU	O-C-N	5.48	127.93	122.12
1	lg	9	GLN	CB-CA-C	5.48	119.07	110.19
1	lj	24	VAL	CA-C-O	5.48	126.65	120.95
1	lr	208	ALA	N-CA-C	-5.48	105.28	112.41
1	ly	167	ARG	O-C-N	-5.48	115.90	122.15
1	lz	186	THR	N-CA-C	-5.48	104.95	111.69
1	lQ	26	VAL	O-C-N	-5.48	116.52	121.89
1	2e	35	GLU	CA-C-N	5.48	129.63	120.64
1	2e	35	GLU	C-N-CA	5.48	129.63	120.64
1	2k	146	SER	O-C-N	-5.48	115.31	120.85
1	2s	48	THR	CB-CA-C	5.48	118.09	109.37
1	2v	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	2C	133	TRP	CA-C-N	5.48	128.21	120.42
1	2C	133	TRP	C-N-CA	5.48	128.21	120.42
1	2D	63	GLN	CA-C-N	5.48	127.57	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2D	63	GLN	C-N-CA	5.48	127.57	120.44
1	2G	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	2J	48	THR	OG1-CB-CG2	-5.48	98.34	109.30
1	2Y	115	ILE	CA-C-N	5.48	126.07	119.98
1	2Y	115	ILE	C-N-CA	5.48	126.07	119.98
1	3a	137	GLY	O-C-N	-5.48	116.85	122.17
1	3k	121	ASN	O-C-N	-5.48	114.36	121.10
1	3r	21	ASN	CA-CB-CG	5.48	118.08	112.60
1	3t	120	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	3K	19	THR	N-CA-C	5.48	117.69	111.11
1	3L	78	ALA	CA-C-O	-5.48	113.66	119.97
1	45	24	VAL	N-CA-CB	5.48	118.80	110.58
1	4h	191	VAL	N-CA-C	5.48	117.94	111.09
1	4w	65	ALA	O-C-N	5.48	127.72	122.07
1	5h	27	VAL	N-CA-CB	5.48	116.96	110.55
1	5i	8	GLY	O-C-N	5.48	129.83	122.70
1	5i	108	THR	N-CA-C	5.48	120.08	113.17
1	5C	24	VAL	CA-C-N	5.48	128.64	120.31
1	5C	24	VAL	C-N-CA	5.48	128.64	120.31
1	5E	92	GLU	CA-C-N	5.48	126.69	119.84
1	5E	92	GLU	C-N-CA	5.48	126.69	119.84
1	5G	207	PRO	N-CA-C	5.48	123.77	112.47
1	5R	32	PHE	N-CA-C	5.48	119.96	113.16
1	5S	226	HIS	N-CA-C	5.48	117.05	109.15
1	5V	96	MET	CG-SD-CE	-5.48	88.84	100.90
1	60	226	HIS	CA-C-O	5.48	128.35	120.51
1	62	91	ILE	CA-CB-CG1	-5.48	101.08	110.40
1	65	110	THR	O-C-N	-5.48	115.91	122.65
1	6a	195	ASN	CA-C-O	5.48	126.68	120.70
1	6b	131	LYS	CA-CB-CG	5.48	125.06	114.10
1	6i	213	GLU	N-CA-CB	-5.48	101.89	110.44
1	6r	11	VAL	O-C-N	-5.48	116.97	123.00
1	6G	74	ASN	CA-C-N	5.48	127.63	120.28
1	6G	74	ASN	C-N-CA	5.48	127.63	120.28
1	6G	154	ARG	CA-C-N	5.48	128.55	120.82
1	6G	154	ARG	C-N-CA	5.48	128.55	120.82
1	6L	52	LEU	N-CA-C	5.48	117.26	111.28
1	77	85	PRO	CA-C-N	5.48	129.23	121.66
1	77	85	PRO	C-N-CA	5.48	129.23	121.66
1	7a	54	THR	CA-C-N	5.48	127.89	120.44
1	7a	54	THR	C-N-CA	5.48	127.89	120.44
1	7w	7	GLN	N-CA-CB	5.48	119.75	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7B	155	GLN	N-CA-C	5.48	118.19	109.96
1	7G	84	HIS	CA-C-N	5.48	126.69	119.84
1	7G	84	HIS	C-N-CA	5.48	126.69	119.84
1	7K	48	THR	O-C-N	-5.48	115.39	121.53
1	7U	25	LYS	CB-CA-C	-5.48	102.27	110.88
1	7V	130	TYR	N-CA-C	-5.48	105.22	111.14
1	82	209	ALA	N-CA-C	5.48	117.81	110.35
1	82	226	HIS	CB-CG-ND1	5.48	130.92	122.70
1	84	183	ASN	N-CA-CB	5.48	118.18	110.12
1	8g	170	LYS	N-CA-C	5.48	117.25	111.28
1	8h	153	ILE	N-CA-CB	5.48	116.70	110.72
1	8o	15	ILE	CA-C-N	5.48	128.28	120.49
1	8o	15	ILE	C-N-CA	5.48	128.28	120.49
1	8w	62	HIS	CB-CG-ND1	-5.48	114.47	122.70
1	8x	164	TYR	CA-C-N	5.48	127.55	120.70
1	8x	164	TYR	C-N-CA	5.48	127.55	120.70
1	8S	169	TYR	CA-C-N	5.48	128.64	120.31
1	8S	169	TYR	C-N-CA	5.48	128.64	120.31
1	8T	53	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	8U	214	MET	CB-CA-C	-5.48	101.69	110.79
1	91	15	ILE	CA-C-N	5.48	128.01	120.39
1	91	15	ILE	C-N-CA	5.48	128.01	120.39
1	9b	181	VAL	O-C-N	-5.48	116.29	121.94
1	9g	137	GLY	N-CA-C	-5.48	105.75	112.77
1	9n	85	PRO	N-CA-C	5.48	120.19	111.26
1	9o	104	ILE	CA-CB-CG1	-5.48	101.08	110.40
1	9r	218	CYS	O-C-N	-5.48	115.30	122.59
1	9w	135	ILE	CB-CA-C	5.48	119.54	112.14
1	9z	100	ARG	NE-CZ-NH2	-5.48	114.27	119.20
1	9G	29	GLU	O-C-N	-5.48	116.39	122.09
1	9J	185	MET	N-CA-C	5.48	117.69	111.11
1	9O	217	ALA	O-C-N	-5.48	116.80	122.94
1	9T	213	GLU	O-C-N	-5.48	116.42	122.07
1	10	38	PRO	N-CA-C	5.48	120.75	113.57
1	ag	113	GLU	CB-CA-C	5.48	119.56	110.90
1	ah	117	TRP	N-CA-C	5.48	118.02	111.71
1	ak	146	SER	O-C-N	-5.48	115.02	121.32
1	aD	87	HIS	N-CA-C	5.48	118.90	111.17
1	aG	120	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	aI	137	GLY	CA-C-N	5.48	127.57	120.44
1	aI	137	GLY	C-N-CA	5.48	127.57	120.44
1	aI	182	LYS	CA-C-N	5.48	127.89	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aI	182	LYS	C-N-CA	5.48	127.89	120.38
1	aK	1	PRO	CB-CA-C	5.48	120.52	110.10
1	aL	193	ASN	N-CA-C	5.48	120.08	113.17
1	14	171	THR	CA-C-N	5.48	128.64	120.31
1	14	171	THR	C-N-CA	5.48	128.64	120.31
1	aS	16	SER	CB-CA-C	-5.48	103.85	110.15
1	b7	180	GLU	CB-CG-CD	5.48	121.92	112.60
1	bd	226	HIS	CA-C-O	-5.48	113.48	119.95
1	bf	70	LYS	N-CA-C	5.48	117.26	111.28
1	bf	167	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	bq	144	MET	CG-SD-CE	-5.48	88.84	100.90
1	bq	156	GLY	CA-C-N	5.48	125.31	119.28
1	bq	156	GLY	C-N-CA	5.48	125.31	119.28
1	bv	182	LYS	CA-C-N	5.48	127.94	120.54
1	bv	182	LYS	C-N-CA	5.48	127.94	120.54
1	bz	148	THR	CA-C-O	5.48	127.90	121.87
1	bz	204	ALA	N-CA-CB	-5.48	101.86	110.30
1	bB	16	SER	CA-C-O	5.48	124.16	119.66
1	bC	82	ARG	CA-C-N	5.48	128.07	120.29
1	bC	82	ARG	C-N-CA	5.48	128.07	120.29
1	bC	151	LEU	N-CA-C	5.48	119.07	112.38
1	bE	195	ASN	CA-C-N	5.48	125.83	119.47
1	bE	195	ASN	C-N-CA	5.48	125.83	119.47
1	bF	155	GLN	CB-CA-C	-5.48	101.12	109.89
1	bH	92	GLU	N-CA-C	5.48	116.79	109.83
1	bP	63	GLN	CA-C-O	5.48	126.26	119.79
1	bQ	201	ILE	CA-C-N	5.48	127.57	120.44
1	bQ	201	ILE	C-N-CA	5.48	127.57	120.44
1	bZ	19	THR	N-CA-C	5.48	117.71	111.02
1	cq	71	GLU	CA-C-N	5.48	127.63	120.28
1	cq	71	GLU	C-N-CA	5.48	127.63	120.28
1	cy	226	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	cC	3	VAL	CA-CB-CG2	-5.48	101.08	110.40
1	cD	230	VAL	CB-CA-C	5.48	120.58	111.37
1	cE	67	GLN	CA-C-N	5.48	127.63	120.28
1	cE	67	GLN	C-N-CA	5.48	127.63	120.28
1	cH	12	HIS	O-C-N	-5.48	116.83	123.13
1	cJ	66	MET	CA-C-O	5.48	126.33	120.24
1	cL	24	VAL	CA-C-N	5.48	128.18	120.28
1	cL	24	VAL	C-N-CA	5.48	128.18	120.28
1	d4	118	MET	O-C-N	-5.48	114.95	122.46
1	dp	184	TRP	O-C-N	5.48	127.93	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	69	LEU	CA-C-N	5.48	128.64	120.31
1	dO	69	LEU	C-N-CA	5.48	128.64	120.31
1	dY	82	ARG	CG-CD-NE	-5.48	99.94	112.00
1	dY	160	PRO	CA-C-N	5.48	131.21	122.93
1	dY	160	PRO	C-N-CA	5.48	131.21	122.93
1	e2	10	MET	CA-C-N	5.48	130.60	122.71
1	e2	10	MET	C-N-CA	5.48	130.60	122.71
1	e6	6	LEU	CA-C-O	5.48	126.14	119.78
1	fa	101	GLY	CA-C-N	5.48	128.64	120.31
1	fa	101	GLY	C-N-CA	5.48	128.64	120.31
1	fj	172	LEU	O-C-N	-5.48	115.26	122.39
1	fl	55	MET	N-CA-C	5.48	117.26	111.28
1	fl	226	HIS	CA-CB-CG	5.48	119.28	113.80
1	fn	11	VAL	O-C-N	-5.48	117.13	123.00
1	fW	112	GLN	N-CA-C	5.48	117.25	111.28
1	1A	68	MET	N-CA-C	5.48	117.26	111.28
1	fY	179	GLN	CA-C-O	5.48	126.36	120.55
1	fZ	76	GLU	N-CA-CB	5.48	117.96	110.01
1	g5	171	THR	N-CA-C	5.48	117.26	111.28
1	g7	65	ALA	O-C-N	-5.48	116.31	122.12
1	g7	122	PRO	CA-C-N	5.48	125.49	119.90
1	g7	122	PRO	C-N-CA	5.48	125.49	119.90
1	q	215	MET	CG-SD-CE	-5.48	88.84	100.90
1	v	149	SER	O-C-N	-5.48	116.79	123.10
1	J	170	LYS	N-CA-C	5.48	117.26	111.28
1	L	146	SER	N-CA-C	5.48	117.53	109.42
1	P	183	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	g8	133	TRP	N-CA-CB	5.48	118.27	110.16
1	1C	135	ILE	N-CA-C	5.48	116.21	110.62
1	gq	192	GLN	CB-CG-CD	5.48	121.92	112.60
1	gv	23	TRP	O-C-N	-5.48	116.31	122.12
1	gB	55	MET	O-C-N	-5.48	116.39	122.09
1	hi	47	ALA	CB-CA-C	5.48	119.02	109.65
1	ho	121	ASN	O-C-N	-5.48	115.04	121.23
1	hw	160	PRO	CA-C-O	-5.48	115.22	121.96
1	hQ	41	SER	CA-C-N	5.48	128.07	120.29
1	hQ	41	SER	C-N-CA	5.48	128.07	120.29
1	1N	142	VAL	CB-CA-C	5.48	118.99	111.97
1	1N	165	VAL	CA-C-N	5.48	127.57	120.44
1	1N	165	VAL	C-N-CA	5.48	127.57	120.44
1	i7	227	LYS	O-C-N	-5.48	116.97	123.22
1	i8	25	LYS	N-CA-C	5.48	117.33	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i8	97	ARG	N-CA-C	5.48	118.42	110.42
1	ii	195	ASN	O-C-N	-5.48	115.29	121.43
1	in	228	ALA	N-CA-C	5.48	117.18	108.79
1	it	179	GLN	CA-C-N	5.48	127.94	120.54
1	it	179	GLN	C-N-CA	5.48	127.94	120.54
1	iC	118	MET	O-C-N	-5.48	114.90	122.46
1	iF	173	ARG	CA-C-O	5.48	126.32	120.24
1	iZ	116	GLY	N-CA-C	5.48	119.27	112.64
1	ji	133	TRP	O-C-N	-5.48	116.31	122.12
1	jn	63	GLN	N-CA-C	5.48	117.25	111.28
1	jq	2	ILE	O-C-N	-5.48	116.18	121.83
1	jt	91	ILE	O-C-N	-5.48	116.98	122.62
1	jv	190	LEU	N-CA-CB	-5.48	101.77	109.94
1	jy	149	SER	CA-C-N	5.48	129.29	120.30
1	jy	149	SER	C-N-CA	5.48	129.29	120.30
1	jC	19	THR	CA-C-N	5.48	127.56	120.44
1	jC	19	THR	C-N-CA	5.48	127.56	120.44
1	jE	196	PRO	CA-C-N	5.48	128.07	120.29
1	jE	196	PRO	C-N-CA	5.48	128.07	120.29
1	jH	31	ALA	N-CA-C	5.48	119.69	112.89
1	1Y	176	GLN	O-C-N	-5.48	116.60	122.85
1	jV	40	PHE	N-CA-C	5.48	116.94	111.07
1	jX	195	ASN	CA-C-N	5.48	126.69	119.84
1	jX	195	ASN	C-N-CA	5.48	126.69	119.84
1	kb	202	LEU	N-CA-C	5.48	116.93	111.07
1	kl	132	ARG	N-CA-C	5.48	117.25	111.28
1	kN	188	THR	O-C-N	-5.48	116.43	122.07
1	kR	82	ARG	O-C-N	-5.48	116.31	122.12
1	kW	82	ARG	CA-C-O	5.48	126.26	119.79
1	l7	177	ALA	O-C-N	-5.48	116.80	123.10
1	la	33	SER	N-CA-C	-5.48	102.17	110.50
1	la	141	ILE	CA-C-O	5.48	126.65	120.95
1	lo	230	VAL	CA-C-O	5.48	126.09	120.39
1	lp	56	LEU	N-CA-C	5.48	117.25	111.28
1	lJ	39	MET	CA-C-N	5.48	127.62	120.28
1	lJ	39	MET	C-N-CA	5.48	127.62	120.28
1	2f	44	SER	N-CA-C	-5.48	106.38	112.57
1	2l	136	LEU	CA-C-N	5.48	127.18	120.22
1	2l	136	LEU	C-N-CA	5.48	127.18	120.22
1	2p	133	TRP	N-CA-CB	5.48	118.18	110.12
1	2u	175	GLU	N-CA-C	5.48	118.23	110.50
1	2A	121	ASN	CA-C-O	-5.48	114.55	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2J	163	ASP	N-CA-C	5.48	117.33	111.36
1	2S	110	THR	O-C-N	-5.48	117.56	123.42
1	2U	87	HIS	CA-C-O	5.48	125.84	119.32
1	35	110	THR	CA-C-O	-5.48	115.51	121.87
1	3j	211	LEU	N-CA-C	5.48	117.33	111.36
1	3p	219	GLN	CB-CA-C	-5.48	100.15	110.67
1	3x	76	GLU	O-C-N	-5.48	116.31	122.12
1	3D	87	HIS	N-CA-C	5.48	118.13	109.96
1	3I	217	ALA	N-CA-C	5.48	117.80	110.35
1	3Q	195	ASN	CB-CA-C	5.48	120.97	110.17
1	44	164	TYR	N-CA-C	5.48	116.93	111.07
1	4a	18	ARG	NE-CZ-NH2	-5.48	114.27	119.20
1	4f	21	ASN	N-CA-C	5.48	117.25	111.28
1	4g	20	LEU	CA-C-O	5.48	126.27	119.97
1	4m	129	ILE	CB-CA-C	-5.48	104.95	111.97
1	4p	149	SER	CA-C-N	5.48	129.13	120.47
1	4p	149	SER	C-N-CA	5.48	129.13	120.47
1	4p	222	GLY	N-CA-C	5.48	120.70	114.67
1	4v	1	PRO	CB-CA-C	5.48	120.51	110.10
1	4M	105	ALA	CA-C-N	5.48	129.84	121.51
1	4M	105	ALA	C-N-CA	5.48	129.84	121.51
1	4P	101	GLY	CA-C-O	5.48	126.12	119.65
1	58	84	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	5e	21	ASN	N-CA-C	5.48	117.96	111.33
1	5m	68	MET	N-CA-C	5.48	118.01	111.71
1	5z	141	ILE	N-CA-C	5.48	116.21	110.62
1	5L	19	THR	N-CA-CB	5.48	117.96	110.01
1	5L	184	TRP	CA-C-N	5.48	127.62	120.28
1	5L	184	TRP	C-N-CA	5.48	127.62	120.28
1	5Q	8	GLY	CA-C-N	5.48	130.82	122.65
1	5Q	8	GLY	C-N-CA	5.48	130.82	122.65
1	5Y	165	VAL	O-C-N	-5.48	116.55	121.87
1	5Z	19	THR	CA-C-O	-5.48	113.91	120.10
1	63	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	68	80	TRP	CA-C-N	5.48	127.62	120.28
1	68	80	TRP	C-N-CA	5.48	127.62	120.28
1	6g	150	ILE	O-C-N	-5.48	116.63	122.06
1	6k	104	ILE	N-CA-C	-5.48	105.16	110.42
1	6m	132	ARG	CA-C-N	5.48	127.62	120.28
1	6m	132	ARG	C-N-CA	5.48	127.62	120.28
1	6u	200	THR	O-C-N	-5.48	116.31	122.12
1	6L	173	ARG	N-CA-C	5.48	117.25	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Q	87	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	71	71	GLU	CA-C-N	5.48	127.89	120.44
1	71	71	GLU	C-N-CA	5.48	127.89	120.44
1	71	130	TYR	N-CA-C	5.48	117.96	111.33
1	74	139	ASN	N-CA-C	5.48	117.25	111.28
1	7b	65	ALA	CA-C-N	5.48	127.62	120.28
1	7b	65	ALA	C-N-CA	5.48	127.62	120.28
1	7f	57	ASN	CA-C-O	5.48	125.68	119.27
1	7n	178	SER	CA-C-O	5.48	127.53	121.56
1	7p	61	GLY	CA-C-O	-5.48	115.16	122.23
1	7w	124	ILE	CA-CB-CG1	5.48	119.72	110.40
1	7x	112	GLN	OE1-CD-NE2	5.48	128.08	122.60
1	7A	181	VAL	O-C-N	-5.48	116.19	121.83
1	7E	67	GLN	CB-CG-CD	5.48	121.92	112.60
1	7J	48	THR	CA-C-N	5.48	126.69	119.84
1	7J	48	THR	C-N-CA	5.48	126.69	119.84
1	7Q	20	LEU	N-CA-C	5.48	117.25	111.28
1	80	55	MET	O-C-N	-5.48	116.39	122.09
1	84	153	ILE	CB-CA-C	5.48	120.28	111.29
1	8h	226	HIS	O-C-N	-5.48	116.19	122.93
1	8m	134	ILE	CA-C-N	5.48	127.47	120.56
1	8m	134	ILE	C-N-CA	5.48	127.47	120.56
1	8s	126	VAL	CA-CB-CG1	-5.48	101.08	110.40
1	8v	17	PRO	CA-C-N	5.48	128.07	120.29
1	8v	17	PRO	C-N-CA	5.48	128.07	120.29
1	8J	77	ALA	CA-C-N	5.48	127.62	120.28
1	8J	77	ALA	C-N-CA	5.48	127.62	120.28
1	8Q	24	VAL	N-CA-CB	5.48	116.96	110.55
1	8W	112	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	92	126	VAL	CA-C-O	5.48	126.65	120.95
1	93	214	MET	CA-C-O	5.48	126.23	120.42
1	a2	155	GLN	N-CA-C	5.48	118.47	109.76
1	ae	135	ILE	CA-C-N	5.48	128.07	120.29
1	ae	135	ILE	C-N-CA	5.48	128.07	120.29
1	an	22	ALA	N-CA-C	5.48	117.25	111.28
1	an	214	MET	CA-C-N	5.48	132.26	121.58
1	an	214	MET	C-N-CA	5.48	132.26	121.58
1	at	159	GLU	CA-C-N	5.48	125.48	119.89
1	at	159	GLU	C-N-CA	5.48	125.48	119.89
1	14	155	GLN	O-C-N	-5.48	116.05	122.96
1	aO	128	GLU	N-CA-CB	5.48	118.18	110.12
1	aS	40	PHE	CA-C-N	5.48	127.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aS	40	PHE	C-N-CA	5.48	127.56	120.44
1	aS	101	GLY	N-CA-C	5.48	120.79	114.16
1	b2	184	TRP	CA-C-N	5.48	127.56	120.44
1	b2	184	TRP	C-N-CA	5.48	127.56	120.44
1	b6	84	HIS	CA-C-O	-5.48	113.83	120.08
1	b9	87	HIS	CB-CG-CD2	5.48	138.32	131.20
1	bc	9	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	bm	217	ALA	N-CA-C	5.48	117.31	109.14
1	bA	213	GLU	N-CA-CB	-5.48	102.05	110.16
1	bF	47	ALA	N-CA-C	5.48	118.18	110.23
1	bI	142	VAL	CA-C-O	5.48	126.65	120.95
1	bM	12	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	1d	70	LYS	N-CA-CB	5.48	118.27	110.16
1	cm	29	GLU	CA-C-O	-5.48	115.25	121.00
1	cn	103	ASP	N-CA-C	5.48	116.94	111.07
1	cv	14	ALA	N-CA-CB	-5.48	101.15	109.92
1	cA	9	GLN	O-C-N	-5.48	115.52	122.26
1	cC	6	LEU	N-CA-CB	-5.48	102.56	110.56
1	cV	76	GLU	CA-C-N	5.48	127.56	120.44
1	cV	76	GLU	C-N-CA	5.48	127.56	120.44
1	cY	150	ILE	O-C-N	5.48	127.41	121.87
1	d6	61	GLY	CA-C-N	5.48	132.01	121.54
1	d6	61	GLY	C-N-CA	5.48	132.01	121.54
1	dg	12	HIS	O-C-N	-5.48	116.06	123.19
1	di	144	MET	O-C-N	-5.48	114.99	122.33
1	dw	134	ILE	CB-CA-C	-5.48	104.74	112.14
1	dz	107	THR	O-C-N	5.48	127.72	122.07
1	dB	82	ARG	NH1-CZ-NH2	-5.48	112.17	119.30
1	dB	191	VAL	O-C-N	-5.48	116.20	121.90
1	dC	181	VAL	N-CA-CB	5.48	116.96	110.55
1	dE	162	ARG	N-CA-C	5.48	117.96	111.33
1	1m	22	ALA	N-CA-C	5.48	120.36	111.37
1	dM	120	HIS	O-C-N	-5.48	116.54	122.79
1	dX	11	VAL	CA-C-O	-5.48	114.62	120.59
1	dX	52	LEU	CA-C-O	5.48	126.12	119.38
1	dY	175	GLU	O-C-N	-5.48	116.97	123.22
1	e1	55	MET	CA-C-O	-5.48	114.74	120.55
1	ee	61	GLY	CA-C-N	5.48	131.21	122.93
1	ee	61	GLY	C-N-CA	5.48	131.21	122.93
1	ej	101	GLY	N-CA-C	5.48	119.31	112.73
1	es	181	VAL	CA-C-N	5.48	127.56	120.44
1	es	181	VAL	C-N-CA	5.48	127.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eB	129	ILE	CA-CB-CG1	5.48	119.72	110.40
1	eR	18	ARG	CB-CA-C	5.48	119.56	110.90
1	eW	148	THR	CA-C-O	5.48	127.17	120.92
1	f3	214	MET	N-CA-C	5.48	116.93	111.07
1	f4	5	ASN	N-CA-C	5.48	116.93	111.07
1	f6	172	LEU	CA-C-O	5.48	126.27	119.97
1	f8	7	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	fb	179	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	fl	138	LEU	CA-C-N	5.48	128.17	120.28
1	fl	138	LEU	C-N-CA	5.48	128.17	120.28
1	fl	156	GLY	CA-C-O	-5.48	113.68	121.52
1	1y	26	VAL	CA-C-O	-5.48	115.04	120.85
1	fM	165	VAL	CA-CB-CG2	-5.48	101.08	110.40
1	fO	212	GLU	CA-C-N	-5.48	113.32	120.44
1	fO	212	GLU	C-N-CA	-5.48	113.32	120.44
1	fT	183	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	e	192	GLN	CB-CA-C	-5.48	101.69	110.79
1	f	219	GLN	N-CA-C	5.48	118.23	110.50
1	j	87	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	k	102	SER	N-CA-C	5.48	117.25	111.28
1	w	161	PHE	CA-C-N	5.48	127.62	120.28
1	w	161	PHE	C-N-CA	5.48	127.62	120.28
1	x	230	VAL	N-CA-C	5.48	117.09	109.80
1	C	223	GLY	CA-C-N	5.48	125.49	119.90
1	C	223	GLY	C-N-CA	5.48	125.49	119.90
1	E	55	MET	N-CA-C	5.48	116.94	111.07
1	H	160	PRO	O-C-N	-5.48	116.40	123.03
1	L	196	PRO	N-CA-CB	-5.48	97.18	103.15
1	T	82	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	V	20	LEU	CA-C-O	-5.48	115.07	120.82
1	7	24	VAL	CA-CB-CG2	-5.48	101.08	110.40
1	ge	75	GLU	CA-C-N	5.48	127.56	120.44
1	ge	75	GLU	C-N-CA	5.48	127.56	120.44
1	ge	160	PRO	N-CA-C	5.48	119.83	111.34
1	gk	61	GLY	CA-C-N	5.48	130.74	122.68
1	gk	61	GLY	C-N-CA	5.48	130.74	122.68
1	gl	38	PRO	N-CA-CB	5.48	109.58	103.44
1	gU	67	GLN	CA-C-N	5.48	128.17	120.28
1	gU	67	GLN	C-N-CA	5.48	128.17	120.28
1	1G	88	ALA	O-C-N	5.48	128.66	122.20
1	gZ	27	VAL	CA-C-N	5.48	128.64	120.31
1	gZ	27	VAL	C-N-CA	5.48	128.64	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h0	26	VAL	CB-CA-C	-5.48	104.84	112.02
1	hI	31	ALA	N-CA-C	5.48	118.22	109.02
1	hM	155	GLN	N-CA-CB	-5.48	101.69	109.85
1	hR	85	PRO	CA-C-N	5.48	127.84	120.50
1	hR	85	PRO	C-N-CA	5.48	127.84	120.50
1	hS	172	LEU	CA-C-N	5.48	127.62	120.28
1	hS	172	LEU	C-N-CA	5.48	127.62	120.28
1	i5	185	MET	O-C-N	-5.48	116.43	122.07
1	j8	87	HIS	CB-CG-CD2	-5.48	124.08	131.20
1	jj	120	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	ke	218	CYS	N-CA-C	5.48	118.95	111.39
1	kg	42	ALA	N-CA-CB	-5.48	102.07	110.12
1	km	159	GLU	O-C-N	-5.48	116.04	121.19
1	kp	153	ILE	O-C-N	-5.48	116.69	122.83
1	kF	120	HIS	CB-CG-ND1	-5.48	114.48	122.70
1	ld	229	ARG	CA-C-N	5.48	128.53	120.91
1	ld	229	ARG	C-N-CA	5.48	128.53	120.91
1	ll	143	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	lP	98	GLU	CA-C-N	5.48	125.38	119.85
1	lP	98	GLU	C-N-CA	5.48	125.38	119.85
1	2p	62	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	2q	124	ILE	CA-C-O	-5.48	115.09	119.25
1	3a	169	TYR	O-C-N	-5.48	114.90	122.46
1	3h	165	VAL	CA-C-N	5.48	127.94	120.54
1	3h	165	VAL	C-N-CA	5.48	127.94	120.54
1	3o	34	PRO	CA-C-N	5.48	129.87	120.72
1	3o	34	PRO	C-N-CA	5.48	129.87	120.72
1	3u	59	VAL	CA-CB-CG1	5.48	119.72	110.40
1	3E	34	PRO	N-CA-C	5.48	123.76	112.47
1	3T	176	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	3V	84	HIS	CB-CG-CD2	-5.48	124.08	131.20
1	4g	19	THR	CA-CB-OG1	5.48	117.82	109.60
1	4p	12	HIS	CA-CB-CG	5.48	119.28	113.80
1	4v	23	TRP	CA-C-N	5.48	127.46	120.56
1	4v	23	TRP	C-N-CA	5.48	127.46	120.56
1	4P	195	ASN	CA-C-N	5.48	125.31	119.28
1	4P	195	ASN	C-N-CA	5.48	125.31	119.28
1	5a	22	ALA	CA-C-O	5.48	126.23	120.42
1	5V	181	VAL	CA-C-N	5.48	128.07	120.29
1	5V	181	VAL	C-N-CA	5.48	128.07	120.29
1	6d	204	ALA	N-CA-C	5.48	117.25	111.28
1	6e	98	GLU	CA-CB-CG	5.48	125.06	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6y	140	LYS	N-CA-C	5.48	117.25	111.28
1	6D	173	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	71	81	ASP	CA-C-O	5.48	126.36	120.55
1	73	183	ASN	CB-CA-C	-5.48	100.49	110.63
1	77	113	GLU	CA-C-N	5.48	127.56	120.44
1	77	113	GLU	C-N-CA	5.48	127.56	120.44
1	80	67	GLN	N-CA-C	5.48	116.93	111.07
1	85	182	LYS	N-CA-CB	5.48	118.28	110.06
1	8m	122	PRO	N-CA-C	5.48	126.35	112.10
1	8p	168	PHE	CA-C-N	5.48	128.07	120.29
1	8p	168	PHE	C-N-CA	5.48	128.07	120.29
1	8B	92	GLU	CA-C-N	5.48	126.69	119.84
1	8B	92	GLU	C-N-CA	5.48	126.69	119.84
1	8U	226	HIS	CB-CG-CD2	-5.48	124.08	131.20
1	96	62	HIS	CB-CA-C	-5.48	104.52	111.86
1	9I	103	ASP	CA-C-N	5.48	127.97	120.46
1	9I	103	ASP	C-N-CA	5.48	127.97	120.46
1	9J	177	ALA	N-CA-CB	5.48	118.10	109.83
1	11	181	VAL	CB-CA-C	-5.48	104.74	112.14
1	aE	87	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	aQ	53	ASN	CA-C-N	5.48	127.62	120.28
1	aQ	53	ASN	C-N-CA	5.48	127.62	120.28
1	bn	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	18	123	PRO	N-CA-C	5.48	119.92	111.21
1	bE	82	ARG	O-C-N	-5.48	116.17	122.09
1	bT	18	ARG	CB-CG-CD	5.48	123.90	111.30
1	bU	133	TRP	CB-CG-CD1	5.48	135.12	126.90
1	1f	124	ILE	N-CA-C	-5.48	102.23	107.76
1	d2	88	ALA	CA-C-N	5.48	128.37	121.36
1	d2	88	ALA	C-N-CA	5.48	128.37	121.36
1	1o	82	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	ei	120	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	ej	135	ILE	O-C-N	-5.48	116.19	121.83
1	et	1	PRO	CA-C-N	5.48	129.83	122.93
1	et	1	PRO	C-N-CA	5.48	129.83	122.93
1	1r	220	GLY	CA-C-N	5.48	127.97	120.46
1	1r	220	GLY	C-N-CA	5.48	127.97	120.46
1	eI	144	MET	CB-CA-C	-5.48	102.24	110.90
1	eO	98	GLU	CB-CA-C	5.48	118.18	109.52
1	fg	152	ASP	CA-C-O	5.48	125.60	119.41
1	fC	163	ASP	CA-CB-CG	5.48	118.08	112.60
1	1y	133	TRP	N-CA-C	5.48	117.25	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f	94	GLY	N-CA-C	-5.48	107.02	116.01
1	j	163	ASP	CA-C-N	5.48	127.62	120.28
1	j	163	ASP	C-N-CA	5.48	127.62	120.28
1	r	90	PRO	N-CA-C	5.48	123.76	112.47
1	E	136	LEU	N-CA-C	5.48	118.76	111.75
1	ge	126	VAL	O-C-N	5.48	127.18	121.87
1	gm	26	VAL	CA-C-N	5.48	127.57	120.56
1	gm	26	VAL	C-N-CA	5.48	127.57	120.56
1	gt	29	GLU	CB-CG-CD	5.48	121.91	112.60
1	gv	187	GLU	N-CA-C	5.48	117.33	111.36
1	gy	26	VAL	N-CA-CB	5.48	117.99	110.54
1	gy	108	THR	CA-CB-CG2	-5.48	101.19	110.50
1	gz	72	THR	CA-C-N	5.48	127.96	120.46
1	gz	72	THR	C-N-CA	5.48	127.96	120.46
1	1E	28	GLU	N-CA-C	5.48	117.25	111.28
1	1E	195	ASN	CA-CB-CG	-5.48	107.12	112.60
1	h0	24	VAL	CA-C-O	5.48	126.64	119.85
1	hn	121	ASN	CA-CB-CG	-5.48	107.12	112.60
1	ho	37	ILE	CA-C-N	5.48	124.82	118.85
1	ho	37	ILE	C-N-CA	5.48	124.82	118.85
1	1J	108	THR	N-CA-C	-5.48	105.29	112.41
1	hs	185	MET	CB-CA-C	-5.48	102.28	110.88
1	hF	17	PRO	N-CA-C	5.48	120.96	113.84
1	hG	162	ARG	CA-C-N	5.48	127.89	120.44
1	hG	162	ARG	C-N-CA	5.48	127.89	120.44
1	ih	180	GLU	CA-C-O	5.48	126.23	120.42
1	il	67	GLN	O-C-N	-5.48	115.91	122.15
1	io	21	ASN	CA-C-O	-5.48	114.74	120.55
1	iw	12	HIS	CA-CB-CG	5.48	119.28	113.80
1	iC	12	HIS	CE1-NE2-CD2	-5.48	103.52	109.00
1	iD	38	PRO	CA-C-O	-5.48	111.80	119.74
1	iH	135	ILE	O-C-N	-5.48	116.54	121.91
1	iH	192	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	iR	143	ARG	N-CA-C	5.48	118.43	111.69
1	1S	44	SER	N-CA-CB	5.48	119.61	110.41
1	j9	177	ALA	CA-C-N	5.48	128.87	120.82
1	j9	177	ALA	C-N-CA	5.48	128.87	120.82
1	jf	7	GLN	CB-CG-CD	5.48	121.91	112.60
1	jg	16	SER	N-CA-C	5.48	117.37	109.48
1	jm	27	VAL	CB-CA-C	-5.48	104.75	112.14
1	jq	230	VAL	O-C-N	-5.48	116.64	122.61
1	jt	7	GLN	OE1-CD-NE2	-5.48	117.12	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jz	56	LEU	CA-C-O	5.48	126.36	120.55
1	jB	206	GLY	O-C-N	-5.48	116.29	121.77
1	jC	185	MET	CG-SD-CE	-5.48	88.85	100.90
1	jF	48	THR	O-C-N	-5.48	115.79	121.60
1	jF	203	LYS	O-C-N	5.48	127.93	122.12
1	jK	72	THR	CB-CA-C	-5.48	102.52	110.96
1	jM	222	GLY	CA-C-O	5.48	124.43	118.95
1	jP	204	ALA	N-CA-C	5.48	117.06	111.14
1	jT	133	TRP	CB-CA-C	-5.48	101.70	110.79
1	jW	39	MET	CB-CA-C	-5.48	101.54	110.85
1	jW	47	ALA	N-CA-C	5.48	118.12	109.96
1	k0	78	ALA	CA-C-N	5.48	128.07	120.29
1	k0	78	ALA	C-N-CA	5.48	128.07	120.29
1	k7	170	LYS	N-CA-CB	-5.48	101.79	110.28
1	kb	26	VAL	CA-C-N	5.48	127.96	120.46
1	kb	26	VAL	C-N-CA	5.48	127.96	120.46
1	kc	194	ALA	CA-C-N	5.48	128.10	120.65
1	kc	194	ALA	C-N-CA	5.48	128.10	120.65
1	km	53	ASN	O-C-N	5.48	127.93	122.12
1	kM	190	LEU	CA-C-N	5.48	128.20	120.42
1	kM	190	LEU	C-N-CA	5.48	128.20	120.42
1	24	199	LYS	N-CA-C	5.48	117.25	111.28
1	kR	201	ILE	N-CA-CB	-5.48	102.36	110.58
1	kW	175	GLU	N-CA-C	-5.48	105.33	112.23
1	kX	143	ARG	CA-C-N	5.48	127.56	120.44
1	kX	143	ARG	C-N-CA	5.48	127.56	120.44
1	l5	35	GLU	CA-C-O	-5.48	114.72	120.63
1	ll	68	MET	O-C-N	-5.48	115.81	122.22
1	lo	76	GLU	CA-C-O	5.48	126.36	120.55
1	lt	216	THR	CA-C-N	5.48	131.33	122.29
1	lt	216	THR	C-N-CA	5.48	131.33	122.29
1	ly	62	HIS	CB-CG-CD2	-5.48	124.08	131.20
1	lL	58	THR	CA-C-O	5.48	126.29	120.10
1	lL	189	LEU	O-C-N	-5.48	115.31	122.59
1	lN	61	GLY	O-C-N	-5.48	115.53	122.82
1	lN	134	ILE	CA-C-O	-5.48	115.04	120.85
1	lO	162	ARG	O-C-N	5.48	127.93	122.12
1	2j	161	PHE	CA-C-N	5.48	127.56	120.44
1	2j	161	PHE	C-N-CA	5.48	127.56	120.44
1	2l	34	PRO	CA-C-N	5.48	128.07	120.29
1	2l	34	PRO	C-N-CA	5.48	128.07	120.29
1	2m	107	THR	CA-CB-OG1	5.48	117.81	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2o	204	ALA	CB-CA-C	-5.48	102.28	110.88
1	2w	129	ILE	N-CA-CB	5.48	116.96	110.55
1	2H	124	ILE	N-CA-C	-5.48	102.73	108.15
1	2I	183	ASN	CA-C-N	5.48	128.63	120.31
1	2I	183	ASN	C-N-CA	5.48	128.63	120.31
1	2P	27	VAL	CA-CB-CG1	5.48	119.71	110.40
1	3h	162	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	3h	193	ASN	CA-CB-CG	-5.48	107.12	112.60
1	3i	103	ASP	CA-C-N	5.48	127.67	120.60
1	3i	103	ASP	C-N-CA	5.48	127.67	120.60
1	3s	190	LEU	CA-C-O	-5.48	115.07	120.82
1	3y	79	GLU	N-CA-C	5.48	117.68	111.11
1	3Y	87	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	4e	200	THR	CA-CB-OG1	5.48	117.82	109.60
1	4m	45	GLU	O-C-N	-5.48	115.30	122.59
1	4u	97	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	4v	185	MET	CA-C-N	5.48	127.56	120.44
1	4v	185	MET	C-N-CA	5.48	127.56	120.44
1	4E	77	ALA	CA-C-N	5.48	127.62	120.28
1	4E	77	ALA	C-N-CA	5.48	127.62	120.28
1	4L	52	LEU	N-CA-C	5.48	116.93	111.07
1	4X	121	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	4Y	30	LYS	CA-C-N	5.48	127.62	120.28
1	4Y	30	LYS	C-N-CA	5.48	127.62	120.28
1	50	87	HIS	CB-CG-ND1	5.48	130.92	122.70
1	52	141	ILE	CA-C-N	5.48	128.25	120.53
1	52	141	ILE	C-N-CA	5.48	128.25	120.53
1	5j	130	TYR	CB-CG-CD1	5.48	129.02	120.80
1	5t	62	HIS	N-CA-C	5.48	122.47	110.80
1	5u	100	ARG	O-C-N	-5.48	116.34	122.75
1	5B	7	GLN	CG-CD-NE2	-5.48	108.19	116.40
1	68	223	GLY	O-C-N	-5.48	116.29	121.77
1	6a	179	GLN	O-C-N	-5.48	116.31	122.12
1	6g	6	LEU	CA-C-N	5.48	128.62	120.95
1	6g	6	LEU	C-N-CA	5.48	128.62	120.95
1	6i	16	SER	CA-C-N	5.48	125.13	119.05
1	6i	16	SER	C-N-CA	5.48	125.13	119.05
1	6y	15	ILE	N-CA-CB	5.48	117.56	110.99
1	6R	7	GLN	N-CA-CB	5.48	119.75	110.49
1	6R	129	ILE	N-CA-CB	-5.48	104.14	110.55
1	7i	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	7p	200	THR	CB-CA-C	-5.48	101.70	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	167	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	88	75	GLU	N-CA-C	5.48	117.33	111.36
1	88	115	ILE	N-CA-C	5.48	116.21	110.62
1	8e	132	ARG	N-CA-C	5.48	118.17	111.82
1	8g	92	GLU	N-CA-C	5.48	116.60	109.64
1	8G	124	ILE	N-CA-CB	5.48	118.88	111.21
1	8I	173	ARG	O-C-N	-5.48	116.39	122.09
1	8N	64	ALA	N-CA-C	5.48	116.93	111.07
1	8V	15	ILE	N-CA-CB	5.48	117.47	110.13
1	9a	162	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	9o	214	MET	CG-SD-CE	-5.48	88.85	100.90
1	9y	141	ILE	N-CA-C	5.48	116.21	110.62
1	9H	166	ASP	N-CA-C	5.48	117.25	111.28
1	9J	208	ALA	CA-C-N	5.48	129.02	120.75
1	9J	208	ALA	C-N-CA	5.48	129.02	120.75
1	9P	166	ASP	N-CA-C	5.48	116.93	111.07
1	9Z	216	THR	CA-C-N	5.48	128.87	120.82
1	9Z	216	THR	C-N-CA	5.48	128.87	120.82
1	a0	37	ILE	O-C-N	-5.48	114.86	121.10
1	a0	230	VAL	N-CA-CB	5.48	118.68	110.13
1	a3	79	GLU	CA-C-O	5.48	126.23	120.42
1	ah	126	VAL	CB-CA-C	-5.48	104.86	112.04
1	aq	104	ILE	N-CA-C	5.48	116.86	110.62
1	at	228	ALA	O-C-N	-5.48	116.07	122.81
1	az	63	GLN	CB-CG-CD	-5.48	103.29	112.60
1	aA	152	ASP	CA-C-N	5.48	129.91	122.90
1	aA	152	ASP	C-N-CA	5.48	129.91	122.90
1	aC	53	ASN	O-C-N	-5.48	116.31	122.12
1	aN	130	TYR	N-CA-C	5.48	116.93	111.07
1	aS	165	VAL	CA-C-N	5.48	127.94	120.54
1	aS	165	VAL	C-N-CA	5.48	127.94	120.54
1	aY	179	GLN	CA-CB-CG	5.48	125.06	114.10
1	b3	161	PHE	CA-CB-CG	5.48	119.28	113.80
1	b8	186	THR	CA-C-O	5.48	126.27	119.97
1	bh	24	VAL	CA-C-N	5.48	127.62	120.28
1	bh	24	VAL	C-N-CA	5.48	127.62	120.28
1	bh	224	PRO	N-CA-C	5.48	123.75	112.47
1	bj	104	ILE	CB-CA-C	-5.48	104.66	112.22
1	bs	51	ASP	CA-CB-CG	-5.48	107.12	112.60
1	bA	29	GLU	CA-C-O	5.48	126.34	120.70
1	19	214	MET	O-C-N	-5.48	115.81	122.22
1	bG	180	GLU	CA-C-N	5.48	127.57	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bG	180	GLU	C-N-CA	5.48	127.57	120.56
1	bY	137	GLY	CA-C-N	5.48	127.88	120.38
1	bY	137	GLY	C-N-CA	5.48	127.88	120.38
1	1c	124	ILE	CA-C-O	-5.48	115.09	119.25
1	1c	229	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	c6	48	THR	N-CA-CB	5.48	117.33	110.04
1	c7	14	ALA	N-CA-C	5.48	117.80	110.35
1	ca	133	TRP	CD2-CE2-CZ2	5.48	127.88	122.40
1	cx	179	GLN	O-C-N	-5.48	116.31	122.12
1	cB	21	ASN	CB-CG-ND2	5.48	124.61	116.40
1	cD	30	LYS	N-CA-C	5.48	121.83	113.61
1	cI	11	VAL	CA-CB-CG1	5.48	119.71	110.40
1	cK	80	TRP	N-CA-C	5.48	116.93	111.07
1	cN	37	ILE	CA-C-N	5.48	126.69	119.84
1	cN	37	ILE	C-N-CA	5.48	126.69	119.84
1	cR	95	GLN	CG-CD-NE2	5.48	124.62	116.40
1	d1	170	LYS	CB-CA-C	-5.48	101.54	110.85
1	d5	125	PRO	CA-C-N	5.48	127.67	120.60
1	d5	125	PRO	C-N-CA	5.48	127.67	120.60
1	d7	163	ASP	CA-CB-CG	5.48	118.08	112.60
1	dc	133	TRP	O-C-N	-5.48	116.31	122.12
1	1j	40	PHE	CA-CB-CG	5.48	119.28	113.80
1	1k	87	HIS	N-CA-C	5.48	118.52	110.30
1	dr	133	TRP	CA-C-N	5.48	127.67	120.60
1	dr	133	TRP	C-N-CA	5.48	127.67	120.60
1	ds	6	LEU	O-C-N	-5.48	115.27	122.39
1	ds	36	VAL	CB-CA-C	-5.48	104.75	112.14
1	dy	116	GLY	CA-C-N	5.48	127.62	120.28
1	dy	116	GLY	C-N-CA	5.48	127.62	120.28
1	dW	28	GLU	N-CA-CB	-5.48	101.79	110.28
1	ea	62	HIS	ND1-CG-CD2	5.48	111.58	106.10
1	eb	219	GLN	N-CA-C	5.48	118.28	107.98
1	ep	31	ALA	O-C-N	-5.48	115.30	122.59
1	ev	2	ILE	CA-C-O	5.48	126.28	120.48
1	eI	50	GLN	CA-C-N	5.48	127.94	120.54
1	eI	50	GLN	C-N-CA	5.48	127.94	120.54
1	eL	66	MET	CA-C-N	5.48	127.62	120.28
1	eL	66	MET	C-N-CA	5.48	127.62	120.28
1	1t	150	ILE	O-C-N	-5.48	114.98	122.26
1	eU	98	GLU	CA-C-N	5.48	125.65	119.90
1	eU	98	GLU	C-N-CA	5.48	125.65	119.90
1	f1	178	SER	O-C-N	-5.48	116.40	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	86	VAL	O-C-N	-5.48	114.71	122.76
1	fd	216	THR	CA-CB-CG2	5.48	119.81	110.50
1	fy	120	HIS	CA-CB-CG	-5.48	108.32	113.80
1	fI	128	GLU	N-CA-C	-5.48	104.15	112.04
1	fL	209	ALA	N-CA-CB	-5.48	101.99	110.04
1	fU	16	SER	CA-C-N	5.48	125.13	119.05
1	fU	16	SER	C-N-CA	5.48	125.13	119.05
1	fX	197	ASP	N-CA-C	5.48	117.25	111.28
1	g1	107	THR	CB-CA-C	-5.48	100.53	110.56
1	b	132	ARG	CA-C-N	5.48	129.99	120.68
1	b	132	ARG	C-N-CA	5.48	129.99	120.68
1	i	164	TYR	N-CA-C	5.48	116.93	111.07
1	k	215	MET	CG-SD-CE	-5.48	88.85	100.90
1	u	179	GLN	CA-C-O	-5.48	114.74	120.55
1	3	32	PHE	O-C-N	-5.48	114.86	122.20
1	I	133	TRP	O-C-N	-5.48	116.31	122.12
1	N	76	GLU	N-CA-C	5.48	117.25	111.28
1	N	228	ALA	O-C-N	-5.48	112.73	122.21
1	ge	161	PHE	CA-C-N	5.48	127.93	120.54
1	ge	161	PHE	C-N-CA	5.48	127.93	120.54
1	gf	143	ARG	CA-C-N	5.48	128.63	120.31
1	gf	143	ARG	C-N-CA	5.48	128.63	120.31
1	gu	28	GLU	CA-C-N	5.48	127.89	120.44
1	gu	28	GLU	C-N-CA	5.48	127.89	120.44
1	hJ	104	ILE	CA-CB-CG1	5.48	119.71	110.40
1	hO	65	ALA	N-CA-C	5.48	118.17	111.82
1	hO	132	ARG	CA-C-N	5.48	127.56	120.44
1	hO	132	ARG	C-N-CA	5.48	127.56	120.44
1	hP	200	THR	O-C-N	5.48	128.39	122.15
1	ii	36	VAL	CA-C-N	5.48	123.69	120.24
1	ii	36	VAL	C-N-CA	5.48	123.69	120.24
1	ii	90	PRO	CA-C-N	5.48	127.57	120.56
1	ii	90	PRO	C-N-CA	5.48	127.57	120.56
1	1P	187	GLU	CB-CG-CD	5.48	121.91	112.60
1	ix	59	VAL	CA-C-O	-5.48	114.25	120.98
1	1Q	107	THR	CB-CA-C	-5.48	101.54	110.85
1	iM	21	ASN	CB-CG-OD1	5.48	131.75	120.80
1	iM	169	TYR	N-CA-C	5.48	117.33	111.36
1	1T	40	PHE	CA-C-N	5.48	127.88	120.65
1	1T	40	PHE	C-N-CA	5.48	127.88	120.65
1	1W	98	GLU	O-C-N	-5.48	116.09	121.18
1	jx	12	HIS	CB-CG-CD2	-5.48	124.08	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	218	CYS	CA-C-N	5.48	130.71	122.99
1	jD	218	CYS	C-N-CA	5.48	130.71	122.99
1	jU	18	ARG	N-CA-C	5.48	117.25	111.28
1	k6	188	THR	OG1-CB-CG2	-5.48	98.35	109.30
1	23	81	ASP	N-CA-C	5.48	117.25	111.28
1	kN	174	ALA	N-CA-CB	-5.48	102.60	110.65
1	l1	53	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	lp	1	PRO	N-CA-CB	5.48	109.02	103.00
1	lp	21	ASN	CA-C-N	5.48	127.93	120.54
1	lp	21	ASN	C-N-CA	5.48	127.93	120.54
1	2w	200	THR	O-C-N	-5.48	116.43	122.07
1	2G	118	MET	CG-SD-CE	-5.48	88.85	100.90
1	38	219	GLN	CB-CG-CD	5.48	121.91	112.60
1	3A	167	ARG	N-CA-C	5.48	117.33	111.36
1	4c	219	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	4k	86	VAL	N-CA-C	-5.48	100.35	108.45
1	5e	224	PRO	N-CA-C	5.48	120.70	113.86
1	5f	37	ILE	CB-CA-C	-5.48	106.83	114.00
1	5l	29	GLU	N-CA-C	5.48	117.25	111.28
1	6e	80	TRP	CB-CA-C	-5.48	101.70	110.79
1	6h	25	LYS	N-CA-C	5.48	117.25	111.28
1	6n	112	GLN	N-CA-CB	-5.48	101.79	110.22
1	6p	84	HIS	CG-CD2-NE2	5.48	112.68	107.20
1	6y	216	THR	CA-CB-OG1	5.48	117.81	109.60
1	7k	97	ARG	NE-CZ-NH1	5.48	126.98	121.50
1	84	112	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	85	164	TYR	CB-CA-C	5.48	119.57	110.81
1	9e	26	VAL	CA-CB-CG2	-5.48	101.09	110.40
1	9A	61	GLY	O-C-N	-5.48	115.58	122.70
1	9A	97	ARG	CG-CD-NE	-5.48	99.95	112.00
1	9Z	171	THR	CA-CB-OG1	5.48	117.81	109.60
1	ao	177	ALA	N-CA-C	5.48	122.46	110.80
1	12	17	PRO	CA-C-N	5.48	127.93	120.54
1	12	17	PRO	C-N-CA	5.48	127.93	120.54
1	b0	73	ILE	CA-C-N	5.48	128.07	120.29
1	b0	73	ILE	C-N-CA	5.48	128.07	120.29
1	ba	129	ILE	N-CA-C	-5.48	105.38	110.53
1	ba	200	THR	N-CA-CB	5.48	118.17	110.12
1	bf	18	ARG	O-C-N	5.48	127.92	122.12
1	18	113	GLU	CA-C-N	5.48	127.56	120.44
1	18	113	GLU	C-N-CA	5.48	127.56	120.44
1	bH	111	LEU	N-CA-CB	-5.48	101.79	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bI	226	HIS	ND1-CE1-NE2	5.48	113.88	108.40
1	1a	71	GLU	N-CA-C	5.48	117.68	111.11
1	c1	162	ARG	NH1-CZ-NH2	-5.48	112.18	119.30
1	c7	87	HIS	CA-C-N	5.48	129.33	121.50
1	c7	87	HIS	C-N-CA	5.48	129.33	121.50
1	1d	221	VAL	N-CA-C	5.48	116.64	109.58
1	cC	134	ILE	N-CA-C	5.48	115.68	110.42
1	1i	133	TRP	O-C-N	-5.48	115.91	122.15
1	d5	33	SER	O-C-N	-5.48	117.56	121.83
1	dH	107	THR	CA-C-O	5.48	126.41	119.78
1	dL	53	ASN	CA-C-O	-5.48	114.75	120.55
1	1n	65	ALA	N-CA-C	5.48	116.93	111.07
1	dV	55	MET	N-CA-C	5.48	117.25	111.28
1	eo	179	GLN	CA-C-N	5.48	127.56	120.44
1	eo	179	GLN	C-N-CA	5.48	127.56	120.44
1	eu	166	ASP	N-CA-CB	-5.48	101.79	110.28
1	eK	125	PRO	CA-C-N	5.48	127.96	120.46
1	eK	125	PRO	C-N-CA	5.48	127.96	120.46
1	fd	219	GLN	O-C-N	5.48	129.87	122.59
1	fh	129	ILE	N-CA-C	5.48	116.25	110.72
1	fA	177	ALA	CA-C-N	5.48	132.00	121.54
1	fA	177	ALA	C-N-CA	5.48	132.00	121.54
1	fL	193	ASN	OD1-CG-ND2	-5.48	117.12	122.60
1	fX	170	LYS	CA-C-N	5.48	127.62	120.28
1	fX	170	LYS	C-N-CA	5.48	127.62	120.28
1	j	13	GLN	OE1-CD-NE2	-5.48	117.12	122.60
1	q	105	ALA	O-C-N	-5.48	115.36	122.37
1	u	51	ASP	O-C-N	5.48	127.92	122.12
1	z	78	ALA	CB-CA-C	5.48	119.48	110.88
1	N	186	THR	N-CA-C	5.48	117.33	111.36
1	gc	183	ASN	CA-C-N	5.47	127.56	120.44
1	gc	183	ASN	C-N-CA	5.47	127.56	120.44
1	gw	216	THR	CA-C-O	5.47	126.30	119.78
1	1E	138	LEU	CA-C-N	5.47	127.61	120.28
1	1E	138	LEU	C-N-CA	5.47	127.61	120.28
1	gD	13	GLN	O-C-N	-5.47	116.26	123.21
1	gD	140	LYS	CA-C-O	-5.47	115.06	120.70
1	gE	22	ALA	CA-C-N	5.47	127.88	120.65
1	gE	22	ALA	C-N-CA	5.47	127.88	120.65
1	gE	182	LYS	CA-C-N	5.47	127.88	120.38
1	gE	182	LYS	C-N-CA	5.47	127.88	120.38
1	gF	125	PRO	N-CA-CB	-5.47	97.50	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gF	213	GLU	N-CA-C	5.47	117.68	111.11
1	gJ	150	ILE	CA-C-N	5.47	128.37	120.38
1	gJ	150	ILE	C-N-CA	5.47	128.37	120.38
1	gK	42	ALA	CA-C-O	5.47	126.22	120.42
1	gQ	157	PRO	N-CA-CB	5.47	109.00	103.25
1	gY	142	VAL	N-CA-CB	-5.47	104.15	110.55
1	gZ	161	PHE	CB-CG-CD1	-5.47	111.39	120.70
1	hl	177	ALA	N-CA-C	5.47	117.80	110.35
1	hn	42	ALA	O-C-N	5.47	129.00	122.27
1	hn	83	LEU	N-CA-C	5.47	117.05	111.14
1	1J	14	ALA	CA-C-O	-5.47	115.17	121.19
1	hr	99	PRO	N-CA-CB	5.47	109.00	103.25
1	hA	71	GLU	N-CA-CB	-5.47	101.79	110.22
1	hI	32	PHE	N-CA-C	5.47	118.96	112.72
1	hQ	165	VAL	N-CA-C	5.47	116.20	110.62
1	1M	170	LYS	N-CA-CB	-5.47	102.07	110.01
1	1M	186	THR	CA-C-N	5.47	127.56	120.44
1	1M	186	THR	C-N-CA	5.47	127.56	120.44
1	i1	46	GLY	CA-C-N	5.47	130.20	121.66
1	i1	46	GLY	C-N-CA	5.47	130.20	121.66
1	id	23	TRP	N-CA-C	5.47	116.93	111.07
1	ie	120	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	ie	205	LEU	O-C-N	-5.47	116.32	122.12
1	ig	120	HIS	CA-CB-CG	5.47	119.28	113.80
1	ij	155	GLN	N-CA-CB	-5.47	102.29	110.17
1	iq	56	LEU	N-CA-C	5.47	116.93	111.07
1	iv	154	ARG	NE-CZ-NH2	-5.47	114.27	119.20
1	iS	2	ILE	N-CA-C	-5.47	100.00	107.99
1	iS	4	GLN	CA-C-N	5.47	130.19	122.09
1	iS	4	GLN	C-N-CA	5.47	130.19	122.09
1	iT	135	ILE	N-CA-CB	5.47	117.98	110.54
1	iZ	192	GLN	N-CA-C	-5.47	105.97	113.30
1	jp	208	ALA	CA-C-N	5.47	128.48	120.71
1	jp	208	ALA	C-N-CA	5.47	128.48	120.71
1	jr	226	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	jM	161	PHE	CB-CG-CD1	5.47	130.01	120.70
1	jS	167	ARG	CA-C-N	5.47	127.56	120.44
1	jS	167	ARG	C-N-CA	5.47	127.56	120.44
1	20	79	GLU	O-C-N	-5.47	115.15	122.49
1	kb	129	ILE	CA-C-O	-5.47	115.26	120.95
1	kn	203	LYS	CA-C-O	-5.47	115.04	120.90
1	kx	169	TYR	CA-CB-CG	-5.47	104.05	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kH	201	ILE	N-CA-CB	5.47	117.98	110.54
1	kL	108	THR	CA-CB-OG1	5.47	117.81	109.60
1	kO	12	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	kQ	58	THR	N-CA-CB	5.47	118.17	110.12
1	kR	71	GLU	CA-C-O	5.47	126.57	120.82
1	kS	167	ARG	N-CA-CB	5.47	117.95	110.01
1	kW	215	MET	N-CA-C	5.47	116.93	111.07
1	25	129	ILE	O-C-N	-5.47	116.56	121.87
1	l1	12	HIS	CA-CB-CG	-5.47	108.33	113.80
1	l3	21	ASN	OD1-CG-ND2	5.47	128.07	122.60
1	lg	20	LEU	O-C-N	-5.47	116.43	122.07
1	li	100	ARG	O-C-N	-5.47	115.92	122.65
1	lo	87	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	lr	27	VAL	CG1-CB-CG2	5.47	122.84	110.80
1	ly	189	LEU	O-C-N	-5.47	116.32	122.12
1	lR	179	GLN	OE1-CD-NE2	-5.47	117.12	122.60
1	2k	55	MET	CG-SD-CE	-5.47	88.86	100.90
1	2r	220	GLY	CA-C-N	5.47	127.96	120.46
1	2r	220	GLY	C-N-CA	5.47	127.96	120.46
1	2C	144	MET	O-C-N	-5.47	115.77	122.34
1	2Q	183	ASN	CA-C-N	5.47	127.56	120.44
1	2Q	183	ASN	C-N-CA	5.47	127.56	120.44
1	2Q	208	ALA	O-C-N	-5.47	115.74	122.25
1	32	171	THR	O-C-N	-5.47	115.91	122.15
1	3b	178	SER	O-C-N	-5.47	116.21	122.89
1	3w	24	VAL	O-C-N	-5.47	116.55	121.91
1	3w	184	TRP	CG-CD2-CE3	-5.47	128.43	133.90
1	3G	195	ASN	CA-C-O	-5.47	114.73	120.70
1	3S	121	ASN	CA-CB-CG	-5.47	107.12	112.60
1	4h	195	ASN	O-C-N	-5.47	116.89	121.38
1	4o	81	ASP	CA-CB-CG	5.47	118.07	112.60
1	4q	110	THR	O-C-N	-5.47	115.92	122.65
1	4r	38	PRO	N-CD-CG	5.47	111.41	103.20
1	4C	168	PHE	CA-CB-CG	-5.47	108.33	113.80
1	4E	93	PRO	N-CA-C	5.47	120.19	111.26
1	4O	23	TRP	CA-CB-CG	5.47	124.00	113.60
1	4S	230	VAL	N-CA-CB	5.47	118.11	110.56
1	5a	50	GLN	N-CA-CB	5.47	118.10	109.94
1	5m	16	SER	N-CA-C	5.47	116.72	109.93
1	5m	42	ALA	CA-C-N	5.47	128.16	120.28
1	5m	42	ALA	C-N-CA	5.47	128.16	120.28
1	5r	6	LEU	CA-C-O	5.47	124.47	119.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5r	196	PRO	N-CA-C	5.47	121.91	113.75
1	5v	120	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	5A	143	ARG	CA-C-N	5.47	131.09	122.49
1	5A	143	ARG	C-N-CA	5.47	131.09	122.49
1	5E	62	HIS	CA-C-N	5.47	129.94	120.58
1	5E	62	HIS	C-N-CA	5.47	129.94	120.58
1	5R	36	VAL	CA-C-O	-5.47	114.56	120.47
1	5R	105	ALA	CA-C-O	5.47	126.17	119.05
1	61	3	VAL	CB-CA-C	5.47	118.71	111.21
1	6j	18	ARG	N-CA-C	5.47	117.25	111.28
1	6l	62	HIS	CB-CG-CD2	-5.47	124.08	131.20
1	6m	214	MET	CA-C-N	5.47	127.61	120.28
1	6m	214	MET	C-N-CA	5.47	127.61	120.28
1	6X	33	SER	N-CA-CB	5.47	116.93	111.29
1	7i	183	ASN	CA-C-N	5.47	127.56	120.44
1	7i	183	ASN	C-N-CA	5.47	127.56	120.44
1	7q	40	PHE	O-C-N	-5.47	116.40	122.09
1	7J	209	ALA	CA-C-N	5.47	130.93	120.97
1	7J	209	ALA	C-N-CA	5.47	130.93	120.97
1	81	43	LEU	N-CA-C	5.47	117.25	111.28
1	82	18	ARG	CB-CA-C	-5.47	100.16	110.67
1	82	193	ASN	CA-C-N	5.47	128.48	120.71
1	82	193	ASN	C-N-CA	5.47	128.48	120.71
1	8e	199	LYS	CA-C-N	5.47	127.88	120.44
1	8e	199	LYS	C-N-CA	5.47	127.88	120.44
1	8k	181	VAL	CA-C-N	5.47	127.88	120.38
1	8k	181	VAL	C-N-CA	5.47	127.88	120.38
1	8B	200	THR	CA-C-O	5.47	126.22	120.42
1	8D	118	MET	O-C-N	-5.47	115.54	122.27
1	8R	167	ARG	CA-C-O	5.47	126.35	120.55
1	8X	6	LEU	N-CA-C	-5.47	105.91	112.59
1	92	206	GLY	O-C-N	-5.47	116.30	121.77
1	93	193	ASN	O-C-N	-5.47	115.50	122.34
1	9x	80	TRP	CB-CG-CD1	-5.47	118.69	126.90
1	9y	28	GLU	N-CA-C	5.47	117.25	111.28
1	9C	80	TRP	CD2-CE2-CZ2	-5.47	116.93	122.40
1	9I	181	VAL	CA-C-N	5.47	127.61	120.28
1	9I	181	VAL	C-N-CA	5.47	127.61	120.28
1	9K	124	ILE	O-C-N	5.47	125.44	121.55
1	9T	40	PHE	CA-C-N	5.47	127.88	120.65
1	9T	40	PHE	C-N-CA	5.47	127.88	120.65
1	aL	63	GLN	OE1-CD-NE2	5.47	128.07	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b9	183	ASN	CA-C-O	-5.47	115.07	120.82
1	bb	89	GLY	CA-C-N	5.47	126.68	119.84
1	bb	89	GLY	C-N-CA	5.47	126.68	119.84
1	be	44	SER	CA-C-N	5.47	128.54	120.82
1	be	44	SER	C-N-CA	5.47	128.54	120.82
1	bo	152	ASP	CA-C-N	5.47	127.84	120.50
1	bo	152	ASP	C-N-CA	5.47	127.84	120.50
1	br	209	ALA	CA-C-O	5.47	127.35	121.44
1	bv	100	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	bR	28	GLU	N-CA-C	5.47	117.25	111.28
1	bS	67	GLN	CA-C-N	5.47	127.61	120.28
1	bS	67	GLN	C-N-CA	5.47	127.61	120.28
1	bY	177	ALA	N-CA-C	5.47	118.58	110.48
1	c3	120	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	c4	40	PHE	O-C-N	-5.47	116.40	122.09
1	cm	208	ALA	N-CA-C	5.47	119.19	111.52
1	cq	204	ALA	N-CA-C	5.47	117.70	111.02
1	cu	197	ASP	O-C-N	-5.47	116.32	122.12
1	1h	31	ALA	N-CA-C	5.47	116.63	108.31
1	d5	74	ASN	CA-C-N	5.47	129.75	120.88
1	d5	74	ASN	C-N-CA	5.47	129.75	120.88
1	d6	195	ASN	CA-C-N	5.47	126.68	119.84
1	d6	195	ASN	C-N-CA	5.47	126.68	119.84
1	da	221	VAL	CA-C-O	5.47	126.43	120.57
1	db	100	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	1j	65	ALA	CB-CA-C	5.47	119.48	110.88
1	de	196	PRO	N-CA-CB	5.47	109.57	103.44
1	df	20	LEU	O-C-N	5.47	128.39	122.15
1	dq	92	GLU	CA-C-O	-5.47	113.47	120.04
1	dx	174	ALA	CA-C-N	5.47	128.63	120.31
1	dx	174	ALA	C-N-CA	5.47	128.63	120.31
1	dA	9	GLN	CA-C-O	5.47	126.73	120.54
1	dN	50	GLN	CA-C-O	5.47	126.35	120.55
1	e2	82	ARG	CA-C-N	5.47	127.93	120.54
1	e2	82	ARG	C-N-CA	5.47	127.93	120.54
1	e5	216	THR	CA-C-N	5.47	133.16	121.45
1	e5	216	THR	C-N-CA	5.47	133.16	121.45
1	ea	52	LEU	CB-CA-C	5.47	119.57	110.81
1	em	91	ILE	CA-C-N	5.47	128.00	120.39
1	em	91	ILE	C-N-CA	5.47	128.00	120.39
1	em	189	LEU	O-C-N	-5.47	116.43	122.07
1	eo	184	TRP	O-C-N	-5.47	116.32	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	et	12	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	eP	89	GLY	CA-C-N	5.47	126.68	119.84
1	eP	89	GLY	C-N-CA	5.47	126.68	119.84
1	1t	160	PRO	CA-C-N	5.47	127.62	120.28
1	1t	160	PRO	C-N-CA	5.47	127.62	120.28
1	eQ	49	PRO	N-CA-CB	5.47	109.00	103.25
1	f6	19	THR	O-C-N	-5.47	116.32	122.12
1	fl	49	PRO	CB-CA-C	5.47	120.59	111.56
1	fn	23	TRP	CA-CB-CG	5.47	124.00	113.60
1	fv	139	ASN	N-CA-C	5.47	117.68	111.11
1	fw	82	ARG	CA-C-N	5.47	127.62	120.28
1	fw	82	ARG	C-N-CA	5.47	127.62	120.28
1	fx	55	MET	N-CA-CB	-5.47	102.07	110.12
1	fB	89	GLY	O-C-N	-5.47	116.30	121.77
1	fC	123	PRO	CA-C-O	-5.47	115.35	121.32
1	fR	67	GLN	N-CA-CB	5.47	118.27	110.06
1	fR	119	THR	N-CA-C	5.47	118.01	111.71
1	fW	147	PRO	N-CA-CB	5.47	108.18	103.31
1	fX	107	THR	CA-CB-OG1	5.47	117.81	109.60
1	g0	150	ILE	CA-C-N	5.47	128.16	120.28
1	g0	150	ILE	C-N-CA	5.47	128.16	120.28
1	1B	117	TRP	CA-C-O	5.47	126.11	119.49
1	p	76	GLU	O-C-N	-5.47	116.32	122.12
1	D	227	LYS	CA-C-N	5.47	130.05	122.77
1	D	227	LYS	C-N-CA	5.47	130.05	122.77
1	H	175	GLU	CA-C-N	5.47	132.00	121.54
1	H	175	GLU	C-N-CA	5.47	132.00	121.54
1	X	120	HIS	CB-CA-C	5.47	119.61	109.54
1	6	161	PHE	N-CA-CB	-5.47	102.07	110.12
1	7	148	THR	CA-CB-OG1	5.47	117.81	109.60
1	gb	4	GLN	N-CA-CB	5.47	119.74	110.49
1	gj	143	ARG	CG-CD-NE	-5.47	99.96	112.00
1	gH	157	PRO	CB-CA-C	5.47	120.59	111.56
1	gM	186	THR	N-CA-C	5.47	119.59	113.02
1	hb	35	GLU	CA-C-N	5.47	129.27	120.30
1	hb	35	GLU	C-N-CA	5.47	129.27	120.30
1	hc	126	VAL	CA-C-N	5.47	125.90	119.94
1	hc	126	VAL	C-N-CA	5.47	125.90	119.94
1	hi	87	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	hq	62	HIS	CG-CD2-NE2	-5.47	101.73	107.20
1	hv	67	GLN	O-C-N	-5.47	116.43	122.07
1	hK	227	LYS	O-C-N	-5.47	115.78	123.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	117	TRP	O-C-N	-5.47	116.32	122.12
1	ib	18	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	iY	145	TYR	N-CA-C	5.47	118.75	112.57
1	j7	191	VAL	CB-CA-C	-5.47	105.05	111.94
1	1U	186	THR	N-CA-C	5.47	117.33	111.36
1	jf	92	GLU	N-CA-C	5.47	116.78	109.83
1	jh	113	GLU	CA-C-N	5.47	127.55	120.44
1	jh	113	GLU	C-N-CA	5.47	127.55	120.44
1	jr	134	ILE	N-CA-CB	5.47	116.95	110.55
1	jE	97	ARG	CA-C-O	-5.47	115.17	121.19
1	1X	29	GLU	N-CA-C	5.47	116.92	111.07
1	jI	6	LEU	N-CA-CB	5.47	120.80	111.66
1	1Y	167	ARG	N-CA-C	5.47	116.92	111.07
1	jV	80	TRP	N-CA-C	-5.47	104.96	111.69
1	jW	11	VAL	CA-C-N	5.47	128.54	120.82
1	jW	11	VAL	C-N-CA	5.47	128.54	120.82
1	k7	107	THR	CA-C-O	5.47	126.25	119.79
1	kv	33	SER	N-CA-C	-5.47	103.20	108.07
1	kG	164	TYR	CD1-CG-CD2	5.47	126.31	118.10
1	kH	114	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	kI	192	GLN	N-CA-CB	5.47	118.16	110.12
1	kU	85	PRO	CA-C-O	-5.47	115.30	121.43
1	kY	219	GLN	CA-C-O	5.47	125.90	119.28
1	l1	89	GLY	CA-C-N	5.47	125.48	119.90
1	l1	89	GLY	C-N-CA	5.47	125.48	119.90
1	l4	76	GLU	O-C-N	-5.47	116.32	122.12
1	lk	63	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	ln	161	PHE	CA-CB-CG	5.47	119.27	113.80
1	lr	146	SER	N-CA-C	-5.47	98.65	109.10
1	28	159	GLU	N-CA-C	5.47	116.85	109.24
1	ls	82	ARG	N-CA-CB	5.47	118.16	110.12
1	lv	214	MET	N-CA-C	5.47	117.24	111.28
1	lz	14	ALA	N-CA-C	5.47	117.79	110.35
1	lA	91	ILE	CA-CB-CG1	5.47	119.70	110.40
1	lA	162	ARG	N-CA-C	5.47	116.92	111.07
1	lJ	130	TYR	CB-CA-C	5.47	119.87	110.79
1	lL	92	GLU	O-C-N	-5.47	115.42	121.66
1	lQ	163	ASP	CA-CB-CG	5.47	118.07	112.60
1	2d	215	MET	CA-C-N	5.47	128.16	120.28
1	2d	215	MET	C-N-CA	5.47	128.16	120.28
1	2e	24	VAL	N-CA-CB	5.47	120.67	110.77
1	2k	189	LEU	N-CA-C	5.47	117.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	142	VAL	N-CA-CB	5.47	116.58	110.51
1	2w	35	GLU	N-CA-C	5.47	119.44	112.87
1	2z	67	GLN	N-CA-C	5.47	117.25	111.28
1	2D	119	THR	N-CA-C	5.47	118.17	111.82
1	2N	81	ASP	CA-C-O	5.47	126.57	120.82
1	3c	84	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	3r	195	ASN	CA-C-N	5.47	124.81	118.85
1	3r	195	ASN	C-N-CA	5.47	124.81	118.85
1	3y	13	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	3G	195	ASN	CA-C-N	5.47	125.09	119.56
1	3G	195	ASN	C-N-CA	5.47	125.09	119.56
1	4a	68	MET	CG-SD-CE	-5.47	88.86	100.90
1	4d	199	LYS	N-CA-CB	5.47	117.94	110.01
1	4k	72	THR	N-CA-C	-5.47	105.22	111.07
1	4q	139	ASN	CA-CB-CG	5.47	118.07	112.60
1	4r	38	PRO	CB-CA-C	5.47	120.76	112.55
1	4t	116	GLY	CA-C-N	5.47	127.61	120.28
1	4t	116	GLY	C-N-CA	5.47	127.61	120.28
1	4D	230	VAL	O-C-N	-5.47	116.37	122.66
1	4E	214	MET	O-C-N	-5.47	116.32	122.12
1	4N	91	ILE	CA-C-N	5.47	129.00	120.68
1	4N	91	ILE	C-N-CA	5.47	129.00	120.68
1	4N	159	GLU	CA-C-O	5.47	124.63	119.76
1	4P	17	PRO	O-C-N	5.47	128.09	122.18
1	4V	19	THR	CA-C-N	5.47	127.61	120.28
1	4V	19	THR	C-N-CA	5.47	127.61	120.28
1	4V	62	HIS	CA-C-N	5.47	127.61	120.28
1	4V	62	HIS	C-N-CA	5.47	127.61	120.28
1	4V	75	GLU	O-C-N	-5.47	116.22	122.08
1	53	1	PRO	CB-CA-C	5.47	120.50	110.10
1	58	113	GLU	N-CA-C	-5.47	105.40	111.36
1	5h	20	LEU	N-CA-C	5.47	117.25	111.28
1	5t	152	ASP	CA-C-N	5.47	129.33	122.43
1	5t	152	ASP	C-N-CA	5.47	129.33	122.43
1	5z	179	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	5A	102	SER	CA-C-N	5.47	128.63	120.31
1	5A	102	SER	C-N-CA	5.47	128.63	120.31
1	5R	145	TYR	N-CA-CB	-5.47	103.01	110.56
1	5T	72	THR	N-CA-CB	5.47	118.17	110.12
1	5Y	156	GLY	CA-C-N	5.47	124.99	119.19
1	5Y	156	GLY	C-N-CA	5.47	124.99	119.19
1	5Z	152	ASP	CA-C-N	5.47	128.42	120.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Z	152	ASP	C-N-CA	5.47	128.42	120.98
1	64	113	GLU	O-C-N	5.47	127.92	122.12
1	6i	47	ALA	CA-C-O	5.47	128.34	120.51
1	6m	81	ASP	CA-CB-CG	-5.47	107.13	112.60
1	6X	7	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	7d	102	SER	O-C-N	-5.47	115.82	122.22
1	7H	172	LEU	N-CA-C	5.47	117.24	111.28
1	7M	218	CYS	CA-C-O	5.47	128.87	122.03
1	7V	162	ARG	N-CA-C	5.47	117.68	111.11
1	87	84	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	89	188	THR	N-CA-CB	5.47	119.74	110.49
1	8d	106	GLY	N-CA-C	5.47	123.61	113.76
1	8e	67	GLN	N-CA-C	5.47	117.24	111.28
1	8i	47	ALA	CB-CA-C	5.47	118.65	109.89
1	8o	70	LYS	N-CA-C	5.47	117.33	111.36
1	8p	153	ILE	N-CA-C	5.47	116.27	107.73
1	8H	199	LYS	N-CA-C	-5.47	105.32	111.28
1	8V	133	TRP	CA-C-N	5.47	127.66	120.60
1	8V	133	TRP	C-N-CA	5.47	127.66	120.60
1	96	114	GLN	CA-C-N	5.47	128.25	120.53
1	96	114	GLN	C-N-CA	5.47	128.25	120.53
1	98	103	ASP	CB-CA-C	-5.47	101.70	110.79
1	9e	87	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	9f	2	ILE	N-CA-C	-5.47	102.00	109.55
1	9j	160	PRO	CA-C-N	5.47	128.06	120.29
1	9j	160	PRO	C-N-CA	5.47	128.06	120.29
1	9l	178	SER	CA-C-N	5.47	127.61	120.28
1	9l	178	SER	C-N-CA	5.47	127.61	120.28
1	9n	74	ASN	O-C-N	-5.47	115.91	122.15
1	9q	85	PRO	O-C-N	-5.47	116.17	122.85
1	9V	189	LEU	CA-C-N	5.47	127.55	120.44
1	9V	189	LEU	C-N-CA	5.47	127.55	120.44
1	ak	167	ARG	NE-CZ-NH2	-5.47	114.27	119.20
1	ar	201	ILE	CA-C-O	-5.47	115.26	120.95
1	at	136	LEU	N-CA-CB	-5.47	101.80	110.28
1	ax	214	MET	N-CA-C	5.47	118.00	111.71
1	aB	229	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	aC	229	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	aK	134	ILE	N-CA-C	5.47	115.67	110.42
1	b0	43	LEU	N-CA-C	5.47	116.93	111.07
1	b1	227	LYS	N-CA-C	5.47	117.75	110.53
1	b9	211	LEU	CA-C-N	5.47	127.93	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b9	211	LEU	C-N-CA	5.47	127.93	120.54
1	ba	183	ASN	CA-C-N	5.47	127.56	120.44
1	ba	183	ASN	C-N-CA	5.47	127.56	120.44
1	bJ	155	GLN	CA-C-O	-5.47	115.00	120.96
1	bK	203	LYS	CB-CG-CD	5.47	123.89	111.30
1	1a	9	GLN	O-C-N	-5.47	116.98	123.22
1	c3	82	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	c9	224	PRO	N-CA-CB	5.47	108.04	103.17
1	cc	184	TRP	O-C-N	-5.47	116.32	122.12
1	ce	49	PRO	CA-C-N	5.47	127.56	120.44
1	ce	49	PRO	C-N-CA	5.47	127.56	120.44
1	cm	97	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	cp	91	ILE	O-C-N	-5.47	115.77	122.61
1	ct	164	TYR	O-C-N	-5.47	116.43	122.07
1	cC	57	ASN	CA-C-O	5.47	126.11	119.38
1	cF	110	THR	CA-C-N	5.47	127.61	120.28
1	cF	110	THR	C-N-CA	5.47	127.61	120.28
1	cG	102	SER	O-C-N	-5.47	116.32	122.12
1	cK	135	ILE	CA-C-N	5.47	128.06	120.29
1	cK	135	ILE	C-N-CA	5.47	128.06	120.29
1	cZ	193	ASN	CA-CB-CG	-5.47	107.13	112.60
1	dw	27	VAL	O-C-N	-5.47	116.55	121.91
1	dC	185	MET	CG-SD-CE	-5.47	88.86	100.90
1	dN	112	GLN	CA-C-O	-5.47	113.92	120.10
1	dU	92	GLU	CA-C-N	5.47	126.68	119.84
1	dU	92	GLU	C-N-CA	5.47	126.68	119.84
1	dX	41	SER	N-CA-C	5.47	117.24	111.28
1	1o	205	LEU	CA-C-O	-5.47	112.65	119.38
1	e6	140	LYS	N-CA-C	5.47	117.25	111.28
1	e9	64	ALA	CB-CA-C	-5.47	101.55	110.85
1	eb	167	ARG	O-C-N	-5.47	116.32	122.12
1	eb	181	VAL	CA-C-N	5.47	128.16	120.28
1	eb	181	VAL	C-N-CA	5.47	128.16	120.28
1	1p	18	ARG	NE-CZ-NH2	5.47	124.12	119.20
1	1p	100	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	em	60	GLY	O-C-N	-5.47	115.59	122.70
1	eP	229	ARG	CA-C-N	5.47	130.38	121.62
1	eP	229	ARG	C-N-CA	5.47	130.38	121.62
1	eT	23	TRP	N-CA-C	5.47	116.93	111.07
1	eY	45	GLU	N-CA-C	5.47	118.11	109.96
1	ff	35	GLU	O-C-N	5.47	127.71	122.07
1	fp	155	GLN	CG-CD-OE1	5.47	131.75	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fr	204	ALA	CA-C-N	5.47	132.29	122.38
1	fr	204	ALA	C-N-CA	5.47	132.29	122.38
1	fr	223	GLY	O-C-N	-5.47	116.30	121.77
1	fB	149	SER	N-CA-C	-5.47	100.61	108.60
1	fH	124	ILE	CA-C-O	5.47	123.19	119.20
1	fV	99	PRO	N-CA-CB	-5.47	99.56	103.23
1	1A	5	ASN	O-C-N	-5.47	116.07	122.96
1	1A	162	ARG	N-CA-CB	5.47	119.74	110.49
1	g3	228	ALA	N-CA-C	5.47	119.06	112.38
1	1	132	ARG	CA-C-O	-5.47	114.62	120.42
1	n	10	MET	N-CA-CB	5.47	118.08	110.04
1	2	194	ALA	CA-C-N	5.47	128.44	120.51
1	2	194	ALA	C-N-CA	5.47	128.44	120.51
1	K	227	LYS	N-CA-CB	-5.47	101.84	111.42
1	Q	171	THR	CA-C-N	5.47	127.93	120.54
1	Q	171	THR	C-N-CA	5.47	127.93	120.54
1	gz	87	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	gL	162	ARG	N-CA-C	5.47	117.24	111.28
1	gR	51	ASP	CA-C-N	5.47	128.06	120.29
1	gR	51	ASP	C-N-CA	5.47	128.06	120.29
1	hd	177	ALA	N-CA-C	5.47	118.01	110.35
1	hk	193	ASN	OD1-CG-ND2	-5.47	117.13	122.60
1	hw	208	ALA	N-CA-C	5.47	119.65	112.92
1	hy	182	LYS	N-CA-C	5.47	116.92	111.07
1	1K	89	GLY	CA-C-N	5.47	126.68	119.84
1	1K	89	GLY	C-N-CA	5.47	126.68	119.84
1	hD	130	TYR	CA-C-N	5.47	127.55	120.44
1	hD	130	TYR	C-N-CA	5.47	127.55	120.44
1	ij	55	MET	CG-SD-CE	-5.47	88.86	100.90
1	j3	164	TYR	N-CA-C	5.47	117.67	111.11
1	1U	225	GLY	N-CA-C	5.47	126.15	113.18
1	jh	76	GLU	N-CA-CB	5.47	118.26	110.16
1	jy	42	ALA	N-CA-CB	-5.47	101.80	110.22
1	jM	190	LEU	CA-C-O	5.47	126.54	120.63
1	k2	34	PRO	CB-CA-C	-5.47	104.12	112.11
1	k3	163	ASP	CA-C-N	5.47	127.55	120.44
1	k3	163	ASP	C-N-CA	5.47	127.55	120.44
1	ki	62	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	ki	97	ARG	O-C-N	-5.47	116.22	122.89
1	kj	91	ILE	N-CA-C	5.47	117.33	109.51
1	kr	176	GLN	CB-CA-C	-5.47	102.28	110.16
1	l7	23	TRP	O-C-N	-5.47	116.32	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l9	9	GLN	O-C-N	-5.47	116.08	123.19
1	l9	159	GLU	CB-CA-C	5.47	116.24	110.17
1	lg	222	GLY	CA-C-O	5.47	129.61	122.61
1	ll	76	GLU	N-CA-C	5.47	117.24	111.28
1	lD	27	VAL	CA-C-N	5.47	127.88	120.38
1	lD	27	VAL	C-N-CA	5.47	127.88	120.38
1	2u	100	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	2C	159	GLU	CA-C-N	5.47	125.42	119.78
1	2C	159	GLU	C-N-CA	5.47	125.42	119.78
1	2E	78	ALA	CB-CA-C	-5.47	101.71	110.79
1	2N	55	MET	O-C-N	-5.47	116.40	122.09
1	3h	182	LYS	O-C-N	-5.47	115.91	122.15
1	3C	167	ARG	N-CA-C	5.47	117.24	111.28
1	3Q	104	ILE	O-C-N	-5.47	116.34	121.87
1	46	213	GLU	CA-C-N	5.47	127.61	120.28
1	46	213	GLU	C-N-CA	5.47	127.61	120.28
1	4b	52	LEU	CA-C-O	5.47	126.22	120.42
1	4e	23	TRP	O-C-N	-5.47	115.91	122.15
1	4J	202	LEU	CA-C-O	-5.47	114.75	120.55
1	4Z	143	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	5f	152	ASP	O-C-N	-5.47	114.96	122.46
1	5q	154	ARG	CA-C-N	5.47	128.64	120.87
1	5q	154	ARG	C-N-CA	5.47	128.64	120.87
1	5x	81	ASP	CA-C-O	5.47	126.35	120.55
1	5G	95	GLN	CG-CD-NE2	5.47	124.61	116.40
1	5R	214	MET	O-C-N	-5.47	115.91	122.15
1	6s	219	GLN	O-C-N	-5.47	115.54	122.27
1	6B	115	ILE	O-C-N	-5.47	116.55	121.91
1	6P	90	PRO	CA-C-N	5.47	127.95	120.46
1	6P	90	PRO	C-N-CA	5.47	127.95	120.46
1	6V	5	ASN	CB-CA-C	-5.47	100.77	109.80
1	6W	42	ALA	CA-C-O	5.47	126.25	119.79
1	7e	39	MET	O-C-N	-5.47	116.34	122.03
1	7T	110	THR	O-C-N	-5.47	116.85	123.03
1	8s	46	GLY	O-C-N	-5.47	117.59	122.57
1	8Z	12	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	9h	214	MET	N-CA-C	5.47	117.05	111.14
1	9n	53	ASN	O-C-N	-5.47	116.32	122.12
1	9u	132	ARG	NE-CZ-NH1	-5.47	116.03	121.50
1	9z	84	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	a0	200	THR	N-CA-C	5.47	117.24	111.28
1	ak	73	ILE	CA-CB-CG1	5.47	119.70	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	al	73	ILE	CA-C-N	5.47	127.61	120.28
1	al	73	ILE	C-N-CA	5.47	127.61	120.28
1	bC	88	ALA	N-CA-C	5.47	119.22	112.54
1	bL	156	GLY	CA-C-O	-5.47	115.88	121.62
1	bQ	37	ILE	CB-CA-C	-5.47	106.83	114.00
1	cg	203	LYS	N-CA-CB	5.47	118.76	110.28
1	ct	81	ASP	CA-CB-CG	5.47	118.07	112.60
1	cA	194	ALA	CA-C-O	-5.47	115.75	121.55
1	cW	110	THR	N-CA-CB	5.47	118.26	110.44
1	d6	191	VAL	O-C-N	-5.47	115.62	121.80
1	db	49	PRO	CB-CA-C	5.47	120.59	111.56
1	1j	101	GLY	N-CA-C	5.47	119.50	112.83
1	dm	195	ASN	O-C-N	-5.47	115.81	121.28
1	1k	98	GLU	N-CA-C	5.47	118.08	110.20
1	dI	213	GLU	N-CA-C	5.47	117.67	111.11
1	dS	96	MET	CA-C-N	5.47	128.86	120.82
1	dS	96	MET	C-N-CA	5.47	128.86	120.82
1	dY	183	ASN	N-CA-CB	5.47	118.16	110.12
1	eh	222	GLY	CA-C-O	5.47	127.60	122.57
1	el	76	GLU	N-CA-C	5.47	116.92	111.07
1	eS	175	GLU	N-CA-C	5.47	117.79	110.35
1	f3	153	ILE	O-C-N	-5.47	116.71	122.95
1	f7	147	PRO	N-CD-CG	5.47	111.41	103.20
1	fq	24	VAL	N-CA-C	5.47	115.67	110.42
1	fr	177	ALA	CA-C-O	-5.47	115.52	121.87
1	fD	165	VAL	CA-C-N	5.47	127.61	120.28
1	fD	165	VAL	C-N-CA	5.47	127.61	120.28
1	fK	100	ARG	NE-CZ-NH2	-5.47	114.28	119.20
1	g2	85	PRO	CA-CB-CG	-5.47	94.11	104.50
1	g6	200	THR	CA-C-N	5.47	127.56	120.56
1	g6	200	THR	C-N-CA	5.47	127.56	120.56
1	g	35	GLU	N-CA-C	5.47	117.24	111.28
1	h	24	VAL	O-C-N	-5.47	115.62	121.80
1	N	203	LYS	CA-CB-CG	5.47	125.04	114.10
1	gb	164	TYR	N-CA-C	5.47	116.92	111.07
1	gh	143	ARG	CA-C-O	5.47	126.35	120.55
1	1C	74	ASN	CB-CG-OD1	5.47	131.74	120.80
1	gi	65	ALA	CA-C-N	5.47	127.61	120.28
1	gi	65	ALA	C-N-CA	5.47	127.61	120.28
1	gk	227	LYS	CA-C-N	5.47	127.87	120.38
1	gk	227	LYS	C-N-CA	5.47	127.87	120.38
1	gs	75	GLU	O-C-N	-5.47	116.44	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gB	215	MET	O-C-N	-5.47	115.28	122.39
1	gD	163	ASP	N-CA-C	5.47	117.24	111.28
1	gE	164	TYR	CA-C-N	5.47	127.95	120.46
1	gE	164	TYR	C-N-CA	5.47	127.95	120.46
1	gN	194	ALA	O-C-N	-5.47	115.82	122.82
1	1G	132	ARG	CG-CD-NE	-5.47	99.97	112.00
1	gZ	192	GLN	CA-C-N	5.47	131.13	122.60
1	gZ	192	GLN	C-N-CA	5.47	131.13	122.60
1	h3	120	HIS	O-C-N	-5.47	116.08	122.81
1	h9	119	THR	O-C-N	5.47	128.76	122.25
1	hd	144	MET	N-CA-C	5.47	117.32	111.36
1	hp	30	LYS	CA-C-O	5.47	126.04	119.59
1	i0	55	MET	N-CA-CB	5.47	118.25	110.16
1	i4	202	LEU	CB-CA-C	5.47	119.47	110.88
1	i8	52	LEU	CA-C-O	-5.47	115.05	120.90
1	1O	165	VAL	O-C-N	-5.47	116.55	121.91
1	im	28	GLU	N-CA-C	5.47	117.32	111.36
1	iu	80	TRP	N-CA-C	5.47	117.24	111.28
1	iu	186	THR	N-CA-CB	5.47	117.89	109.91
1	iB	113	GLU	CA-C-O	5.47	126.22	120.42
1	iE	128	GLU	CA-C-N	5.47	127.95	120.46
1	iE	128	GLU	C-N-CA	5.47	127.95	120.46
1	iI	215	MET	N-CA-CB	5.47	118.25	110.16
1	1S	224	PRO	CA-C-O	-5.47	114.75	121.31
1	iT	79	GLU	N-CA-C	5.47	117.24	111.28
1	1T	117	TRP	N-CA-C	5.47	117.24	111.28
1	j2	58	THR	N-CA-C	5.47	118.00	111.71
1	j7	9	GLN	O-C-N	-5.47	116.92	123.27
1	jb	90	PRO	N-CA-CB	5.47	108.99	103.25
1	1V	177	ALA	N-CA-C	5.47	118.21	110.50
1	1V	212	GLU	CA-C-O	5.47	126.22	120.42
1	jr	112	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	jB	123	PRO	CA-C-N	5.47	126.53	122.59
1	jB	123	PRO	C-N-CA	5.47	126.53	122.59
1	jD	140	LYS	CA-C-O	5.47	126.22	120.42
1	jO	143	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	jS	121	ASN	OD1-CG-ND2	-5.47	117.13	122.60
1	jU	48	THR	CA-C-N	5.47	125.56	119.32
1	jU	48	THR	C-N-CA	5.47	125.56	119.32
1	jV	130	TYR	CA-C-N	5.47	127.61	120.28
1	jV	130	TYR	C-N-CA	5.47	127.61	120.28
1	1Z	120	HIS	CB-CG-CD2	5.47	138.31	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k2	7	GLN	O-C-N	-5.47	115.32	122.59
1	k4	32	PHE	N-CA-C	5.47	119.18	110.70
1	k6	118	MET	N-CA-C	5.47	117.24	111.28
1	kh	124	ILE	CA-CB-CG1	5.47	119.70	110.40
1	kn	18	ARG	NE-CZ-NH2	-5.47	114.28	119.20
1	kq	113	GLU	CA-C-N	5.47	127.61	120.28
1	kq	113	GLU	C-N-CA	5.47	127.61	120.28
1	ku	214	MET	CA-C-O	-5.47	115.08	120.82
1	kv	125	PRO	CA-C-N	5.47	128.19	120.42
1	kv	125	PRO	C-N-CA	5.47	128.19	120.42
1	25	150	ILE	CA-C-O	5.47	126.65	120.85
1	kY	192	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	l5	134	ILE	CA-C-N	5.47	128.19	120.42
1	l5	134	ILE	C-N-CA	5.47	128.19	120.42
1	l5	155	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	l7	224	PRO	CB-CA-C	5.47	118.51	111.56
1	l8	116	GLY	CA-C-N	5.47	127.87	120.38
1	l8	116	GLY	C-N-CA	5.47	127.87	120.38
1	lf	129	ILE	CA-C-O	5.47	126.96	121.27
1	lj	19	THR	O-C-N	-5.47	116.32	122.12
1	lo	226	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	ls	33	SER	CA-C-N	5.47	125.81	119.47
1	ls	33	SER	C-N-CA	5.47	125.81	119.47
1	ly	63	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	lz	171	THR	CA-C-N	5.47	127.61	120.28
1	lz	171	THR	C-N-CA	5.47	127.61	120.28
1	lE	4	GLN	N-CA-C	5.47	118.49	109.85
1	2g	157	PRO	N-CD-CG	5.47	111.41	103.20
1	2z	48	THR	N-CA-CB	5.47	116.08	109.74
1	2A	117	TRP	CB-CG-CD1	-5.47	118.70	126.90
1	2C	80	TRP	O-C-N	-5.47	116.32	122.12
1	2K	75	GLU	CA-CB-CG	-5.47	103.16	114.10
1	2M	199	LYS	N-CA-CB	-5.47	101.80	110.22
1	2W	215	MET	N-CA-C	5.47	119.50	113.21
1	2Y	92	GLU	CA-C-N	5.47	125.39	119.76
1	2Y	92	GLU	C-N-CA	5.47	125.39	119.76
1	31	173	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	3c	219	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	3h	42	ALA	N-CA-CB	-5.47	102.08	110.01
1	3l	185	MET	CG-SD-CE	-5.47	88.87	100.90
1	3y	180	GLU	N-CA-CB	5.47	118.16	110.12
1	3C	83	LEU	N-CA-C	5.47	119.67	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	184	TRP	N-CA-C	5.47	117.67	111.11
1	3H	147	PRO	N-CA-C	5.47	123.74	112.47
1	3K	213	GLU	N-CA-C	5.47	117.32	111.36
1	3W	139	ASN	O-C-N	-5.47	116.32	122.12
1	47	120	HIS	O-C-N	5.47	129.03	122.79
1	4d	81	ASP	CA-C-N	5.47	133.29	121.64
1	4d	81	ASP	C-N-CA	5.47	133.29	121.64
1	4y	84	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	4G	5	ASN	CA-C-N	5.47	127.55	120.44
1	4G	5	ASN	C-N-CA	5.47	127.55	120.44
1	4O	139	ASN	N-CA-CB	5.47	118.26	110.16
1	4V	73	ILE	CA-CB-CG2	-5.47	101.20	110.50
1	4W	51	ASP	CA-C-N	5.47	127.55	120.44
1	4W	51	ASP	C-N-CA	5.47	127.55	120.44
1	4X	37	ILE	CA-C-N	5.47	124.81	118.85
1	4X	37	ILE	C-N-CA	5.47	124.81	118.85
1	52	183	ASN	CA-C-N	5.47	128.62	120.31
1	52	183	ASN	C-N-CA	5.47	128.62	120.31
1	5g	184	TRP	O-C-N	-5.47	116.32	122.12
1	5G	142	VAL	CA-CB-CG1	5.47	119.70	110.40
1	5K	19	THR	CA-C-N	5.47	127.55	120.44
1	5K	19	THR	C-N-CA	5.47	127.55	120.44
1	5O	212	GLU	CB-CG-CD	-5.47	103.30	112.60
1	5S	94	GLY	CA-C-N	5.47	129.01	120.75
1	5S	94	GLY	C-N-CA	5.47	129.01	120.75
1	5U	106	GLY	CA-C-O	-5.47	113.47	120.03
1	5W	217	ALA	N-CA-C	5.47	118.21	110.50
1	62	97	ARG	CA-C-O	-5.47	115.36	121.81
1	6g	46	GLY	CA-C-N	5.47	128.64	120.87
1	6g	46	GLY	C-N-CA	5.47	128.64	120.87
1	6q	143	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	6A	183	ASN	OD1-CG-ND2	-5.47	117.13	122.60
1	73	148	THR	CA-C-O	-5.47	115.27	121.72
1	7p	68	MET	N-CA-CB	-5.47	101.80	110.28
1	7v	110	THR	O-C-N	-5.47	116.08	122.81
1	7D	132	ARG	CA-C-N	5.47	127.61	120.28
1	7D	132	ARG	C-N-CA	5.47	127.61	120.28
1	7F	168	PHE	N-CA-C	-5.47	105.22	111.07
1	7S	93	PRO	N-CA-C	5.47	120.18	111.26
1	87	189	LEU	CA-C-N	5.47	127.55	120.44
1	87	189	LEU	C-N-CA	5.47	127.55	120.44
1	8f	50	GLN	N-CA-C	5.47	116.92	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8g	199	LYS	O-C-N	-5.47	116.32	122.12
1	8k	52	LEU	O-C-N	-5.47	116.18	122.09
1	8o	35	GLU	N-CA-C	-5.47	106.61	113.28
1	8x	11	VAL	CA-C-N	5.47	130.19	122.09
1	8x	11	VAL	C-N-CA	5.47	130.19	122.09
1	8x	210	THR	O-C-N	-5.47	116.41	122.86
1	8A	179	GLN	CA-C-N	5.47	127.61	120.28
1	8A	179	GLN	C-N-CA	5.47	127.61	120.28
1	9j	118	MET	CA-C-O	5.47	126.28	120.10
1	9n	143	ARG	CA-C-O	5.47	126.54	120.80
1	9p	92	GLU	O-C-N	-5.47	115.57	120.71
1	9q	171	THR	CA-C-N	5.47	127.61	120.28
1	9q	171	THR	C-N-CA	5.47	127.61	120.28
1	9H	52	LEU	CA-C-N	5.47	127.55	120.44
1	9H	52	LEU	C-N-CA	5.47	127.55	120.44
1	9R	144	MET	N-CA-CB	-5.47	101.80	110.28
1	9Z	57	ASN	CA-CB-CG	-5.47	107.13	112.60
1	a6	3	VAL	O-C-N	-5.47	116.84	123.02
1	ab	51	ASP	N-CA-CB	5.47	118.16	110.12
1	aj	210	THR	N-CA-CB	5.47	118.18	110.36
1	aq	37	ILE	N-CA-C	5.47	119.51	112.67
1	aq	74	ASN	CB-CG-ND2	5.47	124.60	116.40
1	av	57	ASN	N-CA-C	-5.47	106.61	113.28
1	aA	67	GLN	CA-CB-CG	5.47	125.04	114.10
1	aB	31	ALA	CB-CA-C	-5.47	109.28	115.79
1	aG	173	ARG	CG-CD-NE	-5.47	99.97	112.00
1	aH	146	SER	CA-C-O	-5.47	114.34	120.25
1	14	98	GLU	CA-C-O	-5.47	114.08	119.49
1	aP	86	VAL	CA-C-N	5.47	130.72	122.68
1	aP	86	VAL	C-N-CA	5.47	130.72	122.68
1	aT	207	PRO	CA-C-N	5.47	131.38	121.92
1	aT	207	PRO	C-N-CA	5.47	131.38	121.92
1	b0	137	GLY	O-C-N	-5.47	116.94	122.19
1	16	58	THR	N-CA-CB	5.47	119.31	110.40
1	be	37	ILE	CA-C-O	-5.47	114.20	118.85
1	bm	170	LYS	CA-C-O	-5.47	115.08	120.82
1	br	180	GLU	CB-CG-CD	-5.47	103.30	112.60
1	bS	170	LYS	CA-C-O	-5.47	114.75	120.55
1	c1	88	ALA	N-CA-C	5.47	118.37	110.28
1	c5	15	ILE	N-CA-C	5.47	116.47	109.30
1	c8	174	ALA	CB-CA-C	5.47	119.47	110.88
1	cc	54	THR	CA-C-O	5.47	126.75	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ci	137	GLY	CA-C-N	5.47	127.55	120.44
1	ci	137	GLY	C-N-CA	5.47	127.55	120.44
1	cv	58	THR	CA-C-O	5.47	125.69	119.18
1	cB	143	ARG	N-CA-C	5.47	116.92	111.07
1	cD	22	ALA	CA-C-N	5.47	127.61	120.28
1	cD	22	ALA	C-N-CA	5.47	127.61	120.28
1	cS	226	HIS	CB-CG-CD2	-5.47	124.09	131.20
1	d3	169	TYR	O-C-N	-5.47	116.32	122.12
1	d4	71	GLU	CA-C-N	5.47	127.61	120.28
1	d4	71	GLU	C-N-CA	5.47	127.61	120.28
1	da	227	LYS	N-CA-CB	5.47	118.88	110.46
1	db	108	THR	CB-CA-C	-5.47	100.13	109.65
1	df	186	THR	N-CA-C	5.47	117.95	111.33
1	dk	82	ARG	CG-CD-NE	-5.47	99.97	112.00
1	dp	152	ASP	N-CA-C	5.47	120.11	113.38
1	dA	4	GLN	N-CA-CB	5.47	119.36	110.17
1	dQ	130	TYR	CA-C-N	5.47	127.61	120.28
1	dQ	130	TYR	C-N-CA	5.47	127.61	120.28
1	dR	170	LYS	CA-C-N	5.47	128.62	120.31
1	dR	170	LYS	C-N-CA	5.47	128.62	120.31
1	1n	120	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	e2	214	MET	CA-C-N	5.47	128.06	120.29
1	e2	214	MET	C-N-CA	5.47	128.06	120.29
1	ea	202	LEU	CA-C-N	5.47	128.06	120.29
1	ea	202	LEU	C-N-CA	5.47	128.06	120.29
1	ef	156	GLY	CA-C-O	-5.47	113.70	121.52
1	1q	77	ALA	O-C-N	-5.47	115.92	122.15
1	es	109	SER	CA-C-O	5.47	127.01	120.28
1	1r	200	THR	OG1-CB-CG2	-5.47	98.36	109.30
1	eL	83	LEU	N-CA-C	5.47	117.32	111.36
1	eO	123	PRO	CB-CA-C	-5.47	104.23	111.23
1	eS	64	ALA	N-CA-C	5.47	116.93	110.97
1	eW	75	GLU	O-C-N	5.47	127.72	122.03
1	f2	50	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	f6	230	VAL	CA-C-O	-5.47	114.98	121.05
1	fb	198	CYS	N-CA-C	-5.47	105.23	111.14
1	fh	219	GLN	CA-C-N	5.47	128.17	121.06
1	fh	219	GLN	C-N-CA	5.47	128.17	121.06
1	fv	87	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	fz	204	ALA	CB-CA-C	-5.47	101.55	110.85
1	fH	120	HIS	O-C-N	-5.47	116.35	122.75
1	fP	16	SER	CA-C-N	5.47	125.56	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fP	16	SER	C-N-CA	5.47	125.56	119.32
1	fP	143	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	fZ	192	GLN	O-C-N	-5.47	116.32	122.12
1	g3	195	ASN	CA-C-N	5.47	124.93	119.24
1	g3	195	ASN	C-N-CA	5.47	124.93	119.24
1	b	79	GLU	CB-CG-CD	5.47	121.90	112.60
1	n	159	GLU	CB-CA-C	5.47	118.21	109.62
1	n	214	MET	CA-C-N	5.47	127.92	120.54
1	n	214	MET	C-N-CA	5.47	127.92	120.54
1	o	178	SER	N-CA-C	5.47	117.75	110.53
1	z	47	ALA	N-CA-C	5.47	118.25	110.10
1	D	23	TRP	CA-CB-CG	5.47	123.99	113.60
1	J	211	LEU	O-C-N	5.47	127.92	122.12
1	O	117	TRP	CA-C-N	5.47	128.62	120.31
1	O	117	TRP	C-N-CA	5.47	128.62	120.31
1	T	93	PRO	CA-C-N	5.47	130.66	120.87
1	T	93	PRO	C-N-CA	5.47	130.66	120.87
1	X	150	ILE	N-CA-C	5.47	118.72	111.17
1	6	62	HIS	N-CA-C	5.47	118.88	111.17
1	8	162	ARG	N-CA-C	5.47	117.95	111.33
1	1D	23	TRP	CG-CD2-CE3	5.47	139.37	133.90
1	gz	29	GLU	O-C-N	-5.47	116.12	122.03
1	1F	61	GLY	CA-C-O	-5.47	114.64	122.62
1	gQ	84	HIS	CA-C-N	5.47	126.67	119.84
1	gQ	84	HIS	C-N-CA	5.47	126.67	119.84
1	1I	131	LYS	CA-C-N	5.47	127.87	120.38
1	1I	131	LYS	C-N-CA	5.47	127.87	120.38
1	hm	171	THR	CA-C-O	5.47	126.22	120.42
1	hC	43	LEU	CA-C-O	5.47	125.96	119.56
1	hQ	221	VAL	CA-C-O	5.47	125.81	119.36
1	hR	158	LYS	O-C-N	-5.47	115.74	122.25
1	hX	55	MET	O-C-N	-5.47	116.32	122.12
1	i0	37	ILE	O-C-N	-5.47	116.92	120.42
1	i5	82	ARG	CA-C-O	5.47	126.22	120.42
1	id	33	SER	CA-C-N	5.47	125.30	119.28
1	id	33	SER	C-N-CA	5.47	125.30	119.28
1	ig	170	LYS	O-C-N	-5.47	116.44	122.07
1	jC	97	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	jL	213	GLU	N-CA-C	5.47	116.92	111.07
1	kp	4	GLN	CB-CG-CD	5.47	121.89	112.60
1	ku	48	THR	CA-C-O	-5.47	115.23	120.97
1	ky	171	THR	CA-C-N	5.47	127.55	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	171	THR	C-N-CA	5.47	127.55	120.44
1	kK	2	ILE	CB-CA-C	5.47	118.26	111.15
1	kP	116	GLY	CA-C-N	5.47	127.61	120.28
1	kP	116	GLY	C-N-CA	5.47	127.61	120.28
1	kU	96	MET	N-CA-C	5.47	122.45	110.80
1	lf	134	ILE	CA-C-O	5.47	126.42	120.57
1	lm	166	ASP	O-C-N	-5.47	116.32	122.12
1	2a	75	GLU	CA-CB-CG	5.47	125.04	114.10
1	2g	187	GLU	CB-CG-CD	5.47	121.90	112.60
1	2q	66	MET	CA-C-N	5.47	127.55	120.44
1	2q	66	MET	C-N-CA	5.47	127.55	120.44
1	2T	66	MET	N-CA-C	5.47	117.67	111.11
1	3f	130	TYR	O-C-N	-5.47	116.32	122.12
1	3l	39	MET	CA-C-O	5.47	126.56	120.82
1	3o	6	LEU	CA-C-O	5.47	128.33	120.51
1	3S	221	VAL	N-CA-C	5.47	117.33	109.51
1	48	179	GLN	N-CA-C	5.47	118.00	111.71
1	4D	24	VAL	N-CA-C	5.47	116.20	110.62
1	4J	98	GLU	CB-CA-C	-5.47	100.80	109.82
1	4O	117	TRP	CB-CA-C	5.47	119.54	110.90
1	4Q	107	THR	CA-C-O	5.47	126.28	120.10
1	52	144	MET	N-CA-C	5.47	117.32	111.36
1	55	200	THR	CA-C-O	-5.47	115.05	120.90
1	5f	79	GLU	N-CA-C	5.47	117.24	111.28
1	5j	87	HIS	N-CA-C	5.47	122.45	110.80
1	5J	190	LEU	N-CA-C	5.47	119.21	112.54
1	5M	194	ALA	O-C-N	-5.47	116.14	122.87
1	6m	102	SER	O-C-N	-5.47	116.32	122.12
1	6o	27	VAL	O-C-N	-5.47	116.55	121.91
1	6N	175	GLU	N-CA-C	5.47	117.02	109.15
1	71	45	GLU	CA-C-N	5.47	132.13	121.41
1	71	45	GLU	C-N-CA	5.47	132.13	121.41
1	7c	21	ASN	N-CA-C	5.47	117.24	111.28
1	7e	99	PRO	O-C-N	-5.47	116.23	123.01
1	7k	229	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	7M	114	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	7O	114	GLN	O-C-N	-5.47	116.44	122.07
1	7O	131	LYS	N-CA-C	5.47	118.00	111.71
1	88	192	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	8a	134	ILE	CA-C-O	-5.47	115.26	120.95
1	8P	13	GLN	CA-C-N	5.47	129.53	120.94
1	8P	13	GLN	C-N-CA	5.47	129.53	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8R	187	GLU	N-CA-C	5.47	118.16	111.82
1	9b	146	SER	CA-C-N	5.47	126.67	119.84
1	9b	146	SER	C-N-CA	5.47	126.67	119.84
1	9T	3	VAL	N-CA-CB	5.47	116.49	110.53
1	9V	166	ASP	O-C-N	-5.47	116.32	122.12
1	ah	136	LEU	N-CA-C	5.47	116.92	111.07
1	ap	200	THR	N-CA-C	5.47	117.24	111.28
1	aN	3	VAL	CA-C-O	5.47	127.07	120.67
1	b0	167	ARG	CA-C-O	5.47	126.35	120.55
1	bk	91	ILE	CA-CB-CG1	5.47	119.70	110.40
1	bl	186	THR	CA-C-O	5.47	126.09	119.31
1	br	34	PRO	N-CA-C	5.47	121.74	113.81
1	bx	120	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	bC	12	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	c4	108	THR	CA-CB-CG2	-5.47	101.20	110.50
1	ca	12	HIS	CG-CD2-NE2	5.47	112.67	107.20
1	cz	124	ILE	O-C-N	-5.47	114.87	121.10
1	1f	57	ASN	N-CA-CB	5.47	118.25	110.16
1	cP	180	GLU	N-CA-C	5.47	117.67	111.11
1	dh	177	ALA	O-C-N	-5.47	116.81	123.10
1	dm	175	GLU	N-CA-C	5.47	118.25	110.10
1	ds	123	PRO	N-CA-C	5.47	119.67	111.14
1	dt	170	LYS	N-CA-C	5.47	117.24	111.28
1	1l	79	GLU	CA-C-N	5.47	127.61	120.28
1	1l	79	GLU	C-N-CA	5.47	127.61	120.28
1	eh	226	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	el	95	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	en	161	PHE	CA-C-N	5.47	127.61	120.28
1	en	161	PHE	C-N-CA	5.47	127.61	120.28
1	eq	32	PHE	O-C-N	-5.47	116.82	123.27
1	es	102	SER	CA-C-N	5.47	127.61	120.28
1	es	102	SER	C-N-CA	5.47	127.61	120.28
1	1s	141	ILE	CA-C-N	5.47	127.95	120.46
1	1s	141	ILE	C-N-CA	5.47	127.95	120.46
1	f5	7	GLN	CA-C-N	5.47	132.30	121.53
1	f5	7	GLN	C-N-CA	5.47	132.30	121.53
1	fa	12	HIS	CB-CG-CD2	-5.47	124.09	131.20
1	fC	68	MET	CA-C-N	5.47	127.55	120.44
1	fC	68	MET	C-N-CA	5.47	127.55	120.44
1	1A	62	HIS	N-CA-C	5.47	119.17	111.52
1	g1	7	GLN	O-C-N	-5.47	116.84	123.13
1	f	159	GLU	O-C-N	-5.47	116.28	121.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	q	20	LEU	CA-C-N	5.47	127.61	120.28
1	q	20	LEU	C-N-CA	5.47	127.61	120.28
1	2	224	PRO	N-CA-C	5.47	123.73	112.47
1	v	129	ILE	N-CA-C	5.47	115.67	110.42
1	S	66	MET	CA-C-O	5.47	126.35	120.55
1	gr	170	LYS	CA-C-N	5.47	127.61	120.28
1	gr	170	LYS	C-N-CA	5.47	127.61	120.28
1	gx	26	VAL	CA-CB-CG2	5.47	119.69	110.40
1	1E	62	HIS	N-CA-C	5.47	118.66	111.28
1	gK	88	ALA	CA-C-N	5.47	130.45	121.87
1	gK	88	ALA	C-N-CA	5.47	130.45	121.87
1	gO	229	ARG	CB-CG-CD	5.47	123.87	111.30
1	gP	21	ASN	O-C-N	5.47	127.70	122.07
1	gP	195	ASN	CA-CB-CG	5.47	118.07	112.60
1	gV	82	ARG	N-CA-C	5.47	117.94	111.33
1	gV	95	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	h0	35	GLU	CA-C-O	5.47	126.11	119.11
1	h9	61	GLY	CA-C-N	5.47	130.33	122.40
1	h9	61	GLY	C-N-CA	5.47	130.33	122.40
1	hf	4	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	hg	50	GLN	N-CA-C	5.47	117.24	111.28
1	hs	12	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	hu	169	TYR	N-CA-CB	5.47	118.25	110.16
1	hA	202	LEU	O-C-N	-5.47	115.82	122.22
1	hB	171	THR	N-CA-C	5.47	117.24	111.28
1	hG	116	GLY	N-CA-C	5.47	119.77	112.77
1	hI	147	PRO	CA-C-N	5.47	129.95	121.26
1	hI	147	PRO	C-N-CA	5.47	129.95	121.26
1	hL	200	THR	CA-C-N	5.47	129.27	120.30
1	hL	200	THR	C-N-CA	5.47	129.27	120.30
1	1M	77	ALA	N-CA-C	5.47	117.32	111.36
1	hU	92	GLU	CA-C-N	5.47	126.67	119.84
1	hU	92	GLU	C-N-CA	5.47	126.67	119.84
1	i1	203	LYS	N-CA-C	5.47	118.00	111.71
1	i8	134	ILE	CA-C-O	-5.47	115.06	120.85
1	iv	65	ALA	O-C-N	-5.47	116.44	122.07
1	iI	91	ILE	N-CA-C	5.47	116.13	109.30
1	iV	49	PRO	O-C-N	-5.47	116.28	122.18
1	iY	164	TYR	CA-CB-CG	5.47	123.74	113.90
1	j4	206	GLY	CA-C-N	5.47	125.29	119.28
1	j4	206	GLY	C-N-CA	5.47	125.29	119.28
1	jk	80	TRP	CE2-CD2-CE3	-5.47	113.33	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	js	113	GLU	CB-CG-CD	-5.47	103.31	112.60
1	jD	125	PRO	CA-C-N	5.47	127.95	120.46
1	jD	125	PRO	C-N-CA	5.47	127.95	120.46
1	jN	20	LEU	CA-C-N	5.47	127.55	120.44
1	jN	20	LEU	C-N-CA	5.47	127.55	120.44
1	k7	33	SER	N-CA-CB	-5.47	104.41	111.35
1	kh	138	LEU	CA-C-N	5.47	128.15	120.28
1	kh	138	LEU	C-N-CA	5.47	128.15	120.28
1	21	21	ASN	CA-C-N	5.47	127.55	120.44
1	21	21	ASN	C-N-CA	5.47	127.55	120.44
1	kl	14	ALA	N-CA-C	5.47	118.16	110.23
1	kp	20	LEU	CB-CA-C	-5.47	102.30	110.88
1	kp	111	LEU	O-C-N	-5.47	116.33	122.12
1	kz	88	ALA	CA-C-N	5.47	128.36	121.36
1	kz	88	ALA	C-N-CA	5.47	128.36	121.36
1	kQ	159	GLU	CA-C-O	-5.47	114.77	119.36
1	kW	132	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	l1	59	VAL	O-C-N	-5.47	116.71	122.67
1	26	218	CYS	O-C-N	-5.47	115.77	122.55
1	le	191	VAL	CB-CA-C	-5.47	104.86	112.02
1	li	87	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	lj	182	LYS	N-CA-C	5.47	117.24	111.28
1	lr	140	LYS	CA-C-N	5.47	127.95	120.46
1	lr	140	LYS	C-N-CA	5.47	127.95	120.46
1	lt	105	ALA	CA-C-N	5.47	130.66	120.87
1	lt	105	ALA	C-N-CA	5.47	130.66	120.87
1	lv	18	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	lB	21	ASN	CA-C-O	-5.47	115.08	120.82
1	lJ	53	ASN	N-CA-C	5.47	117.24	111.28
1	lJ	184	TRP	CB-CA-C	5.47	119.86	110.79
1	lK	183	ASN	N-CA-CB	5.47	118.08	109.94
1	lR	79	GLU	CA-C-N	5.47	127.55	120.44
1	lR	79	GLU	C-N-CA	5.47	127.55	120.44
1	lR	144	MET	CA-C-O	-5.47	114.75	120.55
1	2g	210	THR	N-CA-C	5.47	117.59	110.43
1	2i	7	GLN	N-CA-C	5.47	118.37	110.28
1	2p	229	ARG	CA-C-N	5.47	130.83	122.69
1	2p	229	ARG	C-N-CA	5.47	130.83	122.69
1	2y	178	SER	CB-CA-C	-5.47	99.54	110.42
1	2R	143	ARG	NE-CZ-NH2	-5.47	114.28	119.20
1	2W	185	MET	CB-CA-C	5.47	119.46	110.88
1	3m	134	ILE	N-CA-C	5.47	116.20	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	119	THR	N-CA-CB	5.47	118.84	110.70
1	3D	83	LEU	CA-C-O	5.47	126.34	120.55
1	3K	53	ASN	CA-CB-CG	-5.47	107.13	112.60
1	3O	219	GLN	CG-CD-NE2	-5.47	108.20	116.40
1	3S	5	ASN	OD1-CG-ND2	-5.47	117.13	122.60
1	3X	214	MET	N-CA-C	5.47	117.32	111.36
1	48	219	GLN	N-CA-CB	5.47	119.73	110.49
1	4a	217	ALA	N-CA-CB	-5.47	102.14	110.45
1	4h	156	GLY	CA-C-O	-5.47	113.70	121.52
1	4y	226	HIS	CA-C-N	5.47	128.15	120.28
1	4y	226	HIS	C-N-CA	5.47	128.15	120.28
1	4H	54	THR	O-C-N	-5.47	116.33	122.12
1	4N	41	SER	CA-C-N	5.47	127.55	120.44
1	4N	41	SER	C-N-CA	5.47	127.55	120.44
1	4Z	87	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	52	172	LEU	O-C-N	-5.47	115.55	122.27
1	56	149	SER	N-CA-C	-5.47	100.76	109.23
1	5a	16	SER	CA-C-N	5.47	125.16	119.64
1	5a	16	SER	C-N-CA	5.47	125.16	119.64
1	5a	152	ASP	CA-C-N	5.47	130.37	121.62
1	5a	152	ASP	C-N-CA	5.47	130.37	121.62
1	5g	163	ASP	N-CA-C	5.47	117.24	111.28
1	5l	143	ARG	CA-C-N	5.47	127.55	120.44
1	5l	143	ARG	C-N-CA	5.47	127.55	120.44
1	5p	133	TRP	O-C-N	5.47	127.91	122.12
1	5w	228	ALA	N-CA-C	5.47	118.37	110.28
1	5A	23	TRP	N-CA-C	5.47	117.24	111.28
1	5E	85	PRO	O-C-N	-5.47	115.95	122.89
1	5K	197	ASP	CA-CB-CG	5.47	118.07	112.60
1	6a	54	THR	O-C-N	5.47	127.91	122.12
1	6v	76	GLU	N-CA-C	5.47	116.92	111.07
1	6w	72	THR	O-C-N	-5.47	116.44	122.07
1	6M	67	GLN	N-CA-C	5.47	116.92	111.07
1	6N	96	MET	CG-SD-CE	-5.47	88.87	100.90
1	6R	97	ARG	CA-C-O	5.47	127.20	121.19
1	6T	75	GLU	N-CA-C	-5.47	105.23	111.14
1	6U	116	GLY	CA-C-N	5.47	128.05	120.29
1	6U	116	GLY	C-N-CA	5.47	128.05	120.29
1	74	188	THR	N-CA-CB	5.47	121.24	110.63
1	7f	222	GLY	N-CA-C	5.47	118.34	112.33
1	7o	9	GLN	CA-C-N	5.47	128.60	120.95
1	7o	9	GLN	C-N-CA	5.47	128.60	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	75	GLU	CA-C-O	-5.47	114.75	120.55
1	7S	152	ASP	CA-C-O	5.47	125.95	119.56
1	8h	8	GLY	CA-C-O	-5.47	111.06	120.57
1	8k	122	PRO	CA-C-N	5.47	125.77	119.92
1	8k	122	PRO	C-N-CA	5.47	125.77	119.92
1	8w	23	TRP	O-C-N	-5.47	116.41	122.09
1	8A	125	PRO	N-CD-CG	5.47	111.40	103.20
1	8G	100	ARG	CD-NE-CZ	5.47	132.05	124.40
1	8O	167	ARG	CG-CD-NE	-5.47	99.97	112.00
1	8Q	147	PRO	N-CA-CB	-5.47	97.51	103.25
1	9c	211	LEU	CA-C-O	-5.47	114.62	120.42
1	9f	24	VAL	CA-C-N	5.47	127.61	120.28
1	9f	24	VAL	C-N-CA	5.47	127.61	120.28
1	9f	148	THR	CA-CB-OG1	5.47	117.80	109.60
1	9n	63	GLN	OE1-CD-NE2	-5.47	117.13	122.60
1	9o	151	LEU	CA-C-O	5.47	126.26	119.97
1	9y	62	HIS	ND1-CG-CD2	5.47	111.57	106.10
1	9C	174	ALA	O-C-N	-5.47	115.78	122.34
1	a6	178	SER	N-CA-C	5.47	117.75	110.53
1	a7	68	MET	N-CA-C	5.47	116.92	111.07
1	a9	149	SER	CA-C-O	-5.47	114.88	120.89
1	a9	214	MET	N-CA-C	5.47	118.00	111.71
1	10	180	GLU	N-CA-C	5.47	117.32	111.36
1	ad	81	ASP	O-C-N	-5.47	115.92	122.15
1	ah	158	LYS	CB-CA-C	-5.47	102.16	111.02
1	ap	26	VAL	N-CA-C	5.47	117.88	111.05
1	av	117	TRP	N-CA-C	5.47	118.16	111.82
1	16	226	HIS	CA-C-O	5.47	126.78	120.60
1	bk	27	VAL	O-C-N	-5.47	115.62	121.80
1	18	80	TRP	CA-C-O	5.47	126.34	120.55
1	bw	181	VAL	CA-C-N	5.47	127.87	120.38
1	bw	181	VAL	C-N-CA	5.47	127.87	120.38
1	by	13	GLN	CG-CD-OE1	5.47	131.73	120.80
1	bA	135	ILE	N-CA-C	5.47	116.19	110.62
1	bB	116	GLY	CA-C-O	-5.47	115.12	120.75
1	bR	26	VAL	O-C-N	-5.47	116.57	121.87
1	c0	26	VAL	O-C-N	-5.47	116.20	121.83
1	c5	51	ASP	CA-C-O	5.47	126.34	120.55
1	cg	82	ARG	NE-CZ-NH1	5.47	126.97	121.50
1	cj	164	TYR	O-C-N	-5.47	115.82	122.22
1	ck	41	SER	CA-C-N	5.47	128.05	120.29
1	ck	41	SER	C-N-CA	5.47	128.05	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	188	THR	OG1-CB-CG2	-5.47	98.37	109.30
1	cq	144	MET	N-CA-C	-5.47	106.49	112.72
1	cJ	106	GLY	CA-C-O	5.47	125.06	119.10
1	cX	63	GLN	CA-C-O	5.47	126.11	119.49
1	cZ	208	ALA	N-CA-C	5.47	118.00	111.71
1	d5	84	HIS	N-CA-C	5.47	121.89	109.81
1	d8	141	ILE	N-CA-C	5.47	116.19	110.62
1	da	9	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	da	45	GLU	N-CA-C	5.47	118.11	109.96
1	dc	95	GLN	OE1-CD-NE2	5.47	128.07	122.60
1	dd	72	THR	N-CA-CB	5.47	117.94	110.01
1	1j	62	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	dm	51	ASP	N-CA-C	5.47	117.67	111.11
1	dq	186	THR	O-C-N	-5.47	116.44	122.07
1	du	126	VAL	N-CA-C	5.47	118.71	111.17
1	dz	125	PRO	N-CA-CB	5.47	108.99	103.25
1	dA	84	HIS	CA-CB-CG	5.47	119.27	113.80
1	dB	198	CYS	O-C-N	-5.47	116.33	122.12
1	dO	22	ALA	CA-C-N	5.47	127.55	120.44
1	dO	22	ALA	C-N-CA	5.47	127.55	120.44
1	e1	80	TRP	CB-CG-CD1	-5.47	118.70	126.90
1	e2	195	ASN	CA-C-N	5.47	126.67	119.84
1	e2	195	ASN	C-N-CA	5.47	126.67	119.84
1	ea	155	GLN	N-CA-CB	5.47	119.99	110.81
1	en	84	HIS	CE1-NE2-CD2	-5.47	103.53	109.00
1	eo	89	GLY	CA-C-N	5.47	125.47	119.89
1	eo	89	GLY	C-N-CA	5.47	125.47	119.89
1	ev	182	LYS	CG-CD-CE	5.47	123.88	111.30
1	ex	134	ILE	O-C-N	-5.47	116.55	121.91
1	1s	19	THR	CA-CB-OG1	-5.47	101.40	109.60
1	eH	190	LEU	O-C-N	-5.47	115.32	122.59
1	1t	138	LEU	N-CA-C	5.47	117.24	111.28
1	eR	159	GLU	N-CA-CB	-5.47	98.13	109.28
1	f1	206	GLY	O-C-N	-5.47	116.30	121.77
1	f7	221	VAL	N-CA-C	5.47	117.92	111.09
1	f9	23	TRP	CA-C-O	5.47	126.34	120.55
1	1v	80	TRP	N-CA-C	5.47	117.24	111.28
1	fm	20	LEU	CA-C-N	5.47	127.60	120.28
1	fm	20	LEU	C-N-CA	5.47	127.60	120.28
1	fv	54	THR	N-CA-C	-5.47	105.32	111.28
1	fB	209	ALA	N-CA-C	5.47	117.78	110.35
1	fC	167	ARG	N-CA-C	5.47	117.24	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fF	106	GLY	CA-C-N	5.47	127.55	120.44
1	fF	106	GLY	C-N-CA	5.47	127.55	120.44
1	fI	96	MET	CA-C-N	5.47	129.52	120.94
1	fI	96	MET	C-N-CA	5.47	129.52	120.94
1	fL	68	MET	O-C-N	-5.47	116.33	122.12
1	fL	97	ARG	CA-C-O	-5.47	115.18	121.19
1	fM	59	VAL	N-CA-C	5.47	116.19	110.62
1	fO	21	ASN	CB-CG-ND2	5.47	124.60	116.40
1	g1	137	GLY	O-C-N	-5.47	116.89	122.19
1	g7	100	ARG	NH1-CZ-NH2	-5.47	112.19	119.30
1	g7	139	ASN	CA-CB-CG	5.47	118.07	112.60
1	g7	200	THR	CB-CA-C	-5.47	102.54	110.96
1	1B	74	ASN	CA-CB-CG	-5.47	107.13	112.60
1	a	150	ILE	CA-CB-CG2	5.47	119.79	110.50
1	e	215	MET	CG-SD-CE	-5.47	88.87	100.90
1	p	216	THR	N-CA-C	5.47	116.92	111.07
1	w	14	ALA	CA-C-N	5.47	131.81	121.97
1	w	14	ALA	C-N-CA	5.47	131.81	121.97
1	G	169	TYR	N-CA-CB	5.47	118.72	110.30
1	I	13	GLN	N-CA-C	-5.47	101.00	108.38
1	I	138	LEU	CA-C-O	5.47	126.53	120.63
1	K	154	ARG	NE-CZ-NH2	5.47	124.12	119.20
1	gd	161	PHE	CA-C-N	5.46	127.54	120.44
1	gd	161	PHE	C-N-CA	5.46	127.54	120.44
1	gd	210	THR	CA-C-N	5.46	128.15	120.28
1	gd	210	THR	C-N-CA	5.46	128.15	120.28
1	1C	199	LYS	CA-C-N	5.46	127.92	120.54
1	1C	199	LYS	C-N-CA	5.46	127.92	120.54
1	gi	7	GLN	CB-CG-CD	5.46	121.89	112.60
1	gi	210	THR	N-CA-CB	5.46	118.72	110.42
1	go	42	ALA	CB-CA-C	-5.46	101.39	110.68
1	gu	59	VAL	CB-CA-C	5.46	120.25	111.29
1	gu	193	ASN	CA-CB-CG	-5.46	107.14	112.60
1	gx	176	GLN	CB-CA-C	5.46	118.81	111.82
1	gy	61	GLY	CA-C-N	5.46	130.33	122.35
1	gy	61	GLY	C-N-CA	5.46	130.33	122.35
1	gE	121	ASN	CB-CA-C	5.46	117.45	110.13
1	hz	36	VAL	N-CA-CB	5.46	117.97	110.54
1	hD	23	TRP	N-CA-C	5.46	117.24	111.28
1	hF	190	LEU	N-CA-C	5.46	117.67	111.11
1	hK	151	LEU	O-C-N	-5.46	116.33	122.12
1	hS	44	SER	N-CA-C	5.46	120.64	112.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hT	194	ALA	N-CA-CB	5.46	118.17	110.36
1	i5	19	THR	CA-CB-CG2	5.46	119.79	110.50
1	id	209	ALA	CA-C-N	5.46	133.05	122.07
1	id	209	ALA	C-N-CA	5.46	133.05	122.07
1	it	103	ASP	CA-C-N	5.46	128.18	120.42
1	it	103	ASP	C-N-CA	5.46	128.18	120.42
1	iC	205	LEU	CA-C-N	5.46	130.45	121.87
1	iC	205	LEU	C-N-CA	5.46	130.45	121.87
1	1R	158	LYS	N-CA-C	-5.46	105.31	112.41
1	iW	150	ILE	O-C-N	-5.46	115.78	122.12
1	j3	171	THR	O-C-N	5.46	127.99	122.09
1	j4	171	THR	CA-CB-CG2	5.46	119.79	110.50
1	jf	225	GLY	CA-C-N	5.46	132.27	122.38
1	jf	225	GLY	C-N-CA	5.46	132.27	122.38
1	jk	145	TYR	CB-CA-C	5.46	117.94	111.22
1	jr	94	GLY	CA-C-N	-5.46	114.23	122.81
1	jr	94	GLY	C-N-CA	-5.46	114.23	122.81
1	ju	211	LEU	CA-C-N	5.46	127.54	120.44
1	ju	211	LEU	C-N-CA	5.46	127.54	120.44
1	jv	87	HIS	O-C-N	-5.46	116.93	123.27
1	jF	201	ILE	CB-CA-C	-5.46	104.92	112.24
1	jQ	162	ARG	O-C-N	5.46	127.70	122.07
1	jR	5	ASN	CA-C-N	5.46	131.83	123.47
1	jR	5	ASN	C-N-CA	5.46	131.83	123.47
1	jV	122	PRO	CA-C-N	5.46	126.31	120.13
1	jV	122	PRO	C-N-CA	5.46	126.31	120.13
1	k1	218	CYS	N-CA-CB	5.46	120.38	112.13
1	kc	154	ARG	CA-C-N	5.46	130.79	122.65
1	kc	154	ARG	C-N-CA	5.46	130.79	122.65
1	kl	34	PRO	N-CA-CB	5.46	108.55	103.41
1	km	182	LYS	N-CA-C	5.46	117.24	111.28
1	kq	149	SER	O-C-N	-5.46	116.41	122.86
1	22	58	THR	N-CA-C	5.46	119.95	113.28
1	kB	169	TYR	N-CA-C	5.46	117.24	111.28
1	kG	151	LEU	CA-C-O	-5.46	114.76	120.55
1	24	51	ASP	O-C-N	-5.46	116.44	122.07
1	l5	53	ASN	CA-CB-CG	-5.46	107.14	112.60
1	26	226	HIS	CA-CB-CG	5.46	119.27	113.80
1	le	167	ARG	CA-C-N	5.46	127.60	120.28
1	le	167	ARG	C-N-CA	5.46	127.60	120.28
1	lh	32	PHE	O-C-N	-5.46	116.65	123.04
1	lk	171	THR	CA-C-N	5.46	127.92	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lk	171	THR	C-N-CA	5.46	127.92	120.54
1	lk	176	GLN	CA-C-N	5.46	131.98	121.54
1	lk	176	GLN	C-N-CA	5.46	131.98	121.54
1	ls	82	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	lD	32	PHE	CA-C-O	5.46	126.40	119.95
1	lD	120	HIS	CA-CB-CG	5.46	119.26	113.80
1	lQ	226	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	2p	72	THR	N-CA-CB	5.46	117.93	110.01
1	2q	59	VAL	N-CA-CB	-5.46	104.16	110.55
1	2D	198	CYS	N-CA-C	5.46	117.24	111.28
1	2L	39	MET	CA-C-O	5.46	126.33	120.70
1	2T	107	THR	N-CA-CB	5.46	118.45	110.47
1	36	126	VAL	CA-C-O	-5.46	115.27	120.95
1	3h	41	SER	CB-CA-C	-5.46	102.07	110.81
1	3h	218	CYS	CA-C-N	5.46	128.60	120.95
1	3h	218	CYS	C-N-CA	5.46	128.60	120.95
1	3r	118	MET	O-C-N	-5.46	116.33	122.12
1	3P	185	MET	O-C-N	5.46	127.70	122.07
1	3T	40	PHE	O-C-N	-5.46	116.33	122.12
1	41	27	VAL	CA-CB-CG1	5.46	119.69	110.40
1	46	53	ASN	CA-C-N	5.46	128.15	120.28
1	46	53	ASN	C-N-CA	5.46	128.15	120.28
1	4b	226	HIS	CE1-NE2-CD2	-5.46	103.53	109.00
1	4n	4	GLN	N-CA-C	5.46	118.73	110.64
1	4o	166	ASP	N-CA-CB	5.46	117.93	110.01
1	4H	193	ASN	CB-CG-ND2	-5.46	108.20	116.40
1	4L	75	GLU	N-CA-C	5.46	117.24	111.28
1	50	84	HIS	CA-CB-CG	5.46	119.27	113.80
1	53	226	HIS	CA-CB-CG	5.46	119.26	113.80
1	5t	38	PRO	N-CD-CG	5.46	111.40	103.20
1	5L	197	ASP	N-CA-C	5.46	117.94	111.33
1	5N	24	VAL	CA-CB-CG1	5.46	119.69	110.40
1	5N	140	LYS	CA-C-N	5.46	127.44	120.56
1	5N	140	LYS	C-N-CA	5.46	127.44	120.56
1	5N	226	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	5O	222	GLY	CA-C-O	-5.46	117.48	122.24
1	5V	115	ILE	CA-C-O	-5.46	115.27	120.95
1	67	117	TRP	CA-C-N	5.46	132.24	121.58
1	67	117	TRP	C-N-CA	5.46	132.24	121.58
1	6e	84	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	6g	59	VAL	CA-C-O	5.46	127.56	120.95
1	6g	75	GLU	O-C-N	-5.46	116.33	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6q	36	VAL	O-C-N	-5.46	116.57	121.87
1	6B	115	ILE	CA-C-N	5.46	132.12	121.41
1	6B	115	ILE	C-N-CA	5.46	132.12	121.41
1	6C	214	MET	N-CA-C	5.46	117.24	111.28
1	6E	53	ASN	N-CA-C	5.46	117.24	111.28
1	6Q	65	ALA	O-C-N	-5.46	116.33	122.12
1	6S	179	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	6T	12	HIS	CB-CG-CD2	-5.46	124.10	131.20
1	7b	154	ARG	CD-NE-CZ	5.46	132.05	124.40
1	7e	200	THR	CA-C-N	5.46	127.95	120.46
1	7e	200	THR	C-N-CA	5.46	127.95	120.46
1	7j	184	TRP	CG-CD1-NE1	-5.46	103.10	110.20
1	7n	13	GLN	CG-CD-NE2	5.46	124.60	116.40
1	7q	96	MET	N-CA-C	5.46	117.32	108.41
1	7r	33	SER	O-C-N	-5.46	116.90	121.54
1	7L	195	ASN	OD1-CG-ND2	-5.46	117.14	122.60
1	7N	195	ASN	CA-CB-CG	5.46	118.06	112.60
1	7R	25	LYS	N-CA-C	5.46	116.92	111.07
1	7Y	180	GLU	O-C-N	-5.46	116.33	122.12
1	86	126	VAL	N-CA-CB	5.46	117.97	110.54
1	8h	226	HIS	CA-C-N	5.46	131.28	121.66
1	8h	226	HIS	C-N-CA	5.46	131.28	121.66
1	8n	57	ASN	N-CA-C	5.46	119.05	112.38
1	8r	171	THR	N-CA-C	5.46	116.92	111.07
1	8M	37	ILE	CA-C-O	-5.46	112.63	119.95
1	92	71	GLU	O-C-N	-5.46	115.83	122.22
1	93	193	ASN	CA-CB-CG	-5.46	107.14	112.60
1	9e	84	HIS	CA-CB-CG	-5.46	108.34	113.80
1	9g	114	GLN	CG-CD-NE2	5.46	124.60	116.40
1	9j	120	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	9n	10	MET	N-CA-CB	5.46	119.18	110.16
1	9o	31	ALA	CB-CA-C	-5.46	109.80	117.23
1	9q	159	GLU	CB-CA-C	5.46	115.92	109.47
1	9E	190	LEU	O-C-N	-5.46	116.44	122.07
1	9I	140	LYS	N-CA-C	5.46	117.94	111.33
1	9K	118	MET	O-C-N	-5.46	115.55	122.27
1	9L	97	ARG	O-C-N	-5.46	115.32	122.59
1	9N	27	VAL	O-C-N	-5.46	116.55	121.91
1	9N	168	PHE	O-C-N	-5.46	116.19	122.09
1	9Q	84	HIS	N-CA-C	5.46	120.32	109.01
1	9T	40	PHE	O-C-N	-5.46	115.92	122.15
1	a1	87	HIS	CB-CG-CD2	5.46	138.31	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aa	134	ILE	N-CA-C	5.46	115.67	110.42
1	ad	154	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	az	32	PHE	CB-CG-CD2	-5.46	111.41	120.70
1	aE	109	SER	CA-C-N	5.46	130.46	121.39
1	aE	109	SER	C-N-CA	5.46	130.46	121.39
1	aP	58	THR	N-CA-C	5.46	117.23	111.28
1	aQ	133	TRP	CE2-CD2-CE3	-5.46	113.34	118.80
1	b6	80	TRP	O-C-N	5.46	127.91	122.12
1	b9	229	ARG	CA-C-N	5.46	127.82	120.50
1	b9	229	ARG	C-N-CA	5.46	127.82	120.50
1	bd	68	MET	N-CA-C	5.46	118.00	111.71
1	17	196	PRO	N-CA-C	5.46	121.73	113.81
1	bl	75	GLU	O-C-N	-5.46	116.44	122.07
1	bs	134	ILE	CB-CA-C	-5.46	104.98	111.97
1	bu	75	GLU	N-CA-CB	-5.46	102.09	110.01
1	bA	101	GLY	CA-C-N	5.46	127.60	120.28
1	bA	101	GLY	C-N-CA	5.46	127.60	120.28
1	bM	139	ASN	O-C-N	-5.46	116.33	122.12
1	c3	57	ASN	CA-CB-CG	5.46	118.06	112.60
1	ck	75	GLU	CA-C-O	5.46	126.56	120.82
1	cl	26	VAL	CA-C-O	5.46	126.64	120.85
1	cp	155	GLN	N-CA-C	5.46	118.24	110.10
1	cx	176	GLN	CG-CD-NE2	5.46	124.60	116.40
1	cC	91	ILE	CA-C-N	5.46	127.99	120.39
1	cC	91	ILE	C-N-CA	5.46	127.99	120.39
1	1g	197	ASP	N-CA-CB	5.46	118.25	110.16
1	cU	147	PRO	O-C-N	-5.46	115.26	122.64
1	d8	23	TRP	CB-CG-CD1	-5.46	118.70	126.90
1	dl	16	SER	CA-C-N	5.46	126.67	119.84
1	dl	16	SER	C-N-CA	5.46	126.67	119.84
1	dx	223	GLY	CA-C-N	5.46	126.67	119.84
1	dx	223	GLY	C-N-CA	5.46	126.67	119.84
1	dC	152	ASP	N-CA-CB	-5.46	102.58	110.56
1	dD	148	THR	CA-C-O	5.46	126.92	120.96
1	dD	173	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	dL	88	ALA	CA-C-N	5.46	130.45	121.87
1	dL	88	ALA	C-N-CA	5.46	130.45	121.87
1	1n	184	TRP	CA-C-N	5.46	127.60	120.28
1	1n	184	TRP	C-N-CA	5.46	127.60	120.28
1	dT	35	GLU	N-CA-CB	-5.46	101.32	110.39
1	dY	69	LEU	N-CA-C	5.46	117.23	111.28
1	ea	155	GLN	CA-C-O	-5.46	113.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ee	42	ALA	CA-C-O	5.46	126.34	120.55
1	ef	65	ALA	N-CA-C	5.46	116.92	111.07
1	1q	89	GLY	CA-C-O	-5.46	115.88	121.62
1	eo	188	THR	CA-C-N	5.46	127.60	120.28
1	eo	188	THR	C-N-CA	5.46	127.60	120.28
1	eD	9	GLN	CB-CA-C	-5.46	100.90	109.70
1	eF	62	HIS	CA-CB-CG	-5.46	108.33	113.80
1	eU	20	LEU	CA-C-N	5.46	127.60	120.28
1	eU	20	LEU	C-N-CA	5.46	127.60	120.28
1	f1	12	HIS	CA-CB-CG	-5.46	108.33	113.80
1	f5	61	GLY	CA-C-N	5.46	130.58	122.82
1	f5	61	GLY	C-N-CA	5.46	130.58	122.82
1	fe	163	ASP	CA-C-N	5.46	127.60	120.28
1	fe	163	ASP	C-N-CA	5.46	127.60	120.28
1	1w	169	TYR	CA-C-O	5.46	126.10	119.38
1	fs	142	VAL	CA-C-N	5.46	128.15	120.28
1	fs	142	VAL	C-N-CA	5.46	128.15	120.28
1	ft	97	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	fA	2	ILE	N-CA-CB	5.46	119.25	111.82
1	fG	90	PRO	N-CA-CB	5.46	108.99	103.25
1	fH	17	PRO	CA-C-N	5.46	127.60	120.28
1	fH	17	PRO	C-N-CA	5.46	127.60	120.28
1	fX	8	GLY	CA-C-O	5.46	127.47	121.90
1	1	180	GLU	CA-C-N	5.46	127.45	120.56
1	1	180	GLU	C-N-CA	5.46	127.45	120.56
1	k	204	ALA	N-CA-C	5.46	119.94	113.16
1	n	38	PRO	CB-CA-C	-5.46	104.35	112.55
1	p	162	ARG	NE-CZ-NH2	5.46	124.12	119.20
1	w	82	ARG	NH1-CZ-NH2	-5.46	112.19	119.30
1	C	25	LYS	N-CA-C	5.46	117.04	111.14
1	F	90	PRO	CA-C-N	-5.46	115.32	122.37
1	F	90	PRO	C-N-CA	-5.46	115.32	122.37
1	I	130	TYR	CA-C-N	5.46	128.15	120.28
1	I	130	TYR	C-N-CA	5.46	128.15	120.28
1	4	184	TRP	CA-C-O	5.46	126.34	120.55
1	O	125	PRO	N-CD-CG	5.46	111.40	103.20
1	S	195	ASN	CA-C-O	-5.46	114.76	120.88
1	U	4	GLN	O-C-N	-5.46	115.32	122.59
1	gc	226	HIS	N-CA-C	5.46	117.78	110.35
1	ge	201	ILE	CA-CB-CG2	5.46	119.79	110.50
1	gq	27	VAL	N-CA-C	5.46	116.24	110.72
1	gr	228	ALA	N-CA-C	5.46	117.61	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	183	ASN	N-CA-CB	-5.46	102.09	110.12
1	gM	76	GLU	CA-C-N	5.46	127.92	120.54
1	gM	76	GLU	C-N-CA	5.46	127.92	120.54
1	gW	85	PRO	O-C-N	-5.46	115.26	122.64
1	hS	183	ASN	CA-CB-CG	-5.46	107.14	112.60
1	1M	146	SER	N-CA-CB	5.46	117.84	110.14
1	hY	35	GLU	CA-C-O	5.46	128.32	120.51
1	i7	89	GLY	CA-C-N	5.46	126.67	119.84
1	i7	89	GLY	C-N-CA	5.46	126.67	119.84
1	i9	163	ASP	N-CA-C	-5.46	105.33	111.28
1	iw	160	PRO	N-CA-CB	5.46	108.99	103.25
1	iL	222	GLY	CA-C-N	5.46	130.45	121.87
1	iL	222	GLY	C-N-CA	5.46	130.45	121.87
1	1S	48	THR	CA-C-O	-5.46	115.01	120.64
1	iY	152	ASP	N-CA-CB	-5.46	102.18	110.92
1	j3	80	TRP	CA-C-N	5.46	127.60	120.28
1	j3	80	TRP	C-N-CA	5.46	127.60	120.28
1	jb	69	LEU	CA-C-O	5.46	126.75	120.90
1	jb	176	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	jl	82	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	jA	59	VAL	CA-CB-CG1	5.46	119.69	110.40
1	jS	30	LYS	CA-C-O	5.46	125.58	119.41
1	k3	137	GLY	O-C-N	-5.46	116.95	122.19
1	k9	63	GLN	N-CA-C	5.46	117.31	111.36
1	kh	80	TRP	CB-CG-CD1	-5.46	118.71	126.90
1	kt	112	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	kZ	74	ASN	N-CA-CB	5.46	117.93	110.01
1	l4	47	ALA	O-C-N	-5.46	116.28	123.16
1	lc	170	LYS	N-CA-C	5.46	117.99	111.71
1	lf	25	LYS	N-CA-C	5.46	117.23	111.28
1	ln	118	MET	CG-SD-CE	-5.46	88.88	100.90
1	2a	43	LEU	N-CA-C	5.46	118.16	111.82
1	2d	45	GLU	CA-C-O	-5.46	115.26	121.00
1	2f	23	TRP	O-C-N	-5.46	116.41	122.09
1	2t	139	ASN	CA-CB-CG	5.46	118.06	112.60
1	2x	146	SER	N-CA-C	5.46	121.88	109.81
1	2C	105	ALA	N-CA-CB	-5.46	102.55	110.47
1	2G	191	VAL	CB-CA-C	-5.46	104.86	112.02
1	2S	97	ARG	O-C-N	-5.46	116.15	122.87
1	2W	207	PRO	N-CA-CB	-5.46	97.24	101.83
1	3g	98	GLU	N-CA-C	5.46	117.43	109.84
1	3V	97	ARG	NH1-CZ-NH2	-5.46	112.20	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	45	185	MET	CA-C-N	5.46	127.60	120.28
1	45	185	MET	C-N-CA	5.46	127.60	120.28
1	4j	210	THR	N-CA-C	5.46	118.89	110.42
1	4p	178	SER	N-CA-CB	-5.46	101.18	109.92
1	4C	201	ILE	O-C-N	-5.46	116.20	121.83
1	4Y	145	TYR	CB-CA-C	-5.46	102.81	111.17
1	6f	67	GLN	O-C-N	-5.46	116.33	122.12
1	6C	53	ASN	CA-C-O	-5.46	114.76	120.55
1	6V	22	ALA	CB-CA-C	5.46	119.86	110.79
1	7B	56	LEU	N-CA-C	5.46	117.23	111.28
1	7N	27	VAL	N-CA-CB	5.46	117.97	110.54
1	8C	93	PRO	CA-C-O	5.46	127.28	121.32
1	8D	3	VAL	CA-C-N	5.46	129.89	122.19
1	8D	3	VAL	C-N-CA	5.46	129.89	122.19
1	8P	165	VAL	CB-CA-C	-5.46	104.77	112.14
1	8V	105	ALA	N-CA-C	5.46	119.20	112.54
1	8Y	124	ILE	N-CA-CB	5.46	117.26	111.20
1	90	136	LEU	N-CA-C	5.46	117.23	111.28
1	9Q	210	THR	N-CA-C	5.46	117.78	110.35
1	Z	121	ASN	O-C-N	-5.46	116.14	121.38
1	a2	132	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	a4	40	PHE	O-C-N	-5.46	116.33	122.12
1	a8	87	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	ae	154	ARG	O-C-N	-5.46	116.08	122.96
1	as	73	ILE	N-CA-C	5.46	115.67	110.42
1	av	208	ALA	N-CA-C	5.46	122.44	110.80
1	az	111	LEU	O-C-N	-5.46	116.33	122.12
1	aK	163	ASP	CA-CB-CG	-5.46	107.14	112.60
1	b0	179	GLN	CA-C-N	5.46	127.60	120.28
1	b0	179	GLN	C-N-CA	5.46	127.60	120.28
1	bh	165	VAL	N-CA-CB	5.46	116.94	110.55
1	cc	189	LEU	O-C-N	-5.46	115.92	122.15
1	cO	210	THR	N-CA-CB	5.46	118.17	110.36
1	1h	61	GLY	CA-C-N	5.46	130.16	122.46
1	1h	61	GLY	C-N-CA	5.46	130.16	122.46
1	d0	55	MET	N-CA-C	5.46	117.67	111.11
1	d9	226	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	dd	92	GLU	CB-CA-C	5.46	116.23	110.17
1	dn	18	ARG	CA-C-O	-5.46	115.06	120.90
1	du	26	VAL	CA-C-O	5.46	126.37	120.47
1	1l	132	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	dN	144	MET	CA-C-N	-5.46	114.50	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dN	144	MET	C-N-CA	-5.46	114.50	122.86
1	e2	170	LYS	O-C-N	5.46	127.91	122.12
1	e4	217	ALA	O-C-N	-5.46	115.72	122.82
1	et	113	GLU	CA-C-N	5.46	128.38	120.79
1	et	113	GLU	C-N-CA	5.46	128.38	120.79
1	eA	107	THR	N-CA-C	5.46	117.23	111.28
1	f9	200	THR	N-CA-CB	5.46	118.25	110.16
1	fb	228	ALA	N-CA-CB	-5.46	102.11	110.85
1	fg	103	ASP	CA-CB-CG	-5.46	107.14	112.60
1	fE	87	HIS	CA-C-N	5.46	128.05	120.29
1	fE	87	HIS	C-N-CA	5.46	128.05	120.29
1	fH	183	ASN	CB-CA-C	-5.46	101.72	110.79
1	fL	118	MET	CA-C-O	5.46	126.34	120.55
1	fY	209	ALA	N-CA-C	5.46	118.24	110.10
1	g1	220	GLY	CA-C-N	5.46	129.45	121.80
1	g1	220	GLY	C-N-CA	5.46	129.45	121.80
1	1B	48	THR	CA-C-N	5.46	125.55	119.32
1	1B	48	THR	C-N-CA	5.46	125.55	119.32
1	2	27	VAL	CG1-CB-CG2	-5.46	98.78	110.80
1	R	173	ARG	CB-CA-C	5.46	120.14	110.85
1	g9	130	TYR	CB-CA-C	5.46	119.46	110.88
1	gn	214	MET	N-CA-C	5.46	117.31	111.36
1	go	15	ILE	N-CA-C	5.46	117.50	109.63
1	go	84	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	gB	18	ARG	NE-CZ-NH2	5.46	124.11	119.20
1	gB	163	ASP	N-CA-C	-5.46	105.75	112.90
1	gC	138	LEU	CA-C-O	-5.46	114.76	120.55
1	h8	44	SER	CA-C-N	5.46	131.97	121.54
1	h8	44	SER	C-N-CA	5.46	131.97	121.54
1	h8	120	HIS	CB-CA-C	-5.46	99.84	109.62
1	h9	80	TRP	CD2-CE2-CZ2	-5.46	116.94	122.40
1	hd	48	THR	CA-C-N	5.46	126.67	119.84
1	hd	48	THR	C-N-CA	5.46	126.67	119.84
1	hj	84	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	hl	199	LYS	O-C-N	-5.46	116.41	122.09
1	ho	104	ILE	N-CA-C	5.46	116.85	110.62
1	hQ	84	HIS	N-CA-C	5.46	118.53	109.79
1	hR	224	PRO	CA-C-O	-5.46	114.44	122.31
1	hX	145	TYR	CA-C-O	-5.46	113.50	119.95
1	hZ	224	PRO	O-C-N	-5.46	115.27	122.64
1	i9	113	GLU	CA-C-N	5.46	127.54	120.44
1	i9	113	GLU	C-N-CA	5.46	127.54	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	157	PRO	O-C-N	5.46	129.73	122.30
1	1P	150	ILE	CA-C-O	5.46	125.81	119.36
1	iD	6	LEU	O-C-N	5.46	128.43	122.20
1	iN	216	THR	CA-CB-OG1	5.46	117.79	109.60
1	jp	58	THR	CA-C-N	5.46	129.44	121.80
1	jp	58	THR	C-N-CA	5.46	129.44	121.80
1	jr	84	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	js	12	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	js	171	THR	CA-C-O	5.46	126.21	120.42
1	jD	37	ILE	CB-CA-C	5.46	121.30	111.36
1	jK	46	GLY	CA-C-N	5.46	128.47	120.71
1	jK	46	GLY	C-N-CA	5.46	128.47	120.71
1	k1	98	GLU	N-CA-CB	5.46	117.84	110.14
1	k8	102	SER	N-CA-C	5.46	117.23	111.28
1	kc	230	VAL	O-C-N	-5.46	117.14	122.93
1	kg	166	ASP	N-CA-C	5.46	116.91	111.07
1	kv	176	GLN	CA-C-O	-5.46	114.52	120.36
1	kz	68	MET	O-C-N	-5.46	116.33	122.12
1	kD	192	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	kE	18	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	kH	97	ARG	NE-CZ-NH1	-5.46	116.04	121.50
1	kI	30	LYS	CA-C-N	5.46	131.97	121.54
1	kI	30	LYS	C-N-CA	5.46	131.97	121.54
1	kN	61	GLY	O-C-N	-5.46	118.45	122.71
1	kO	174	ALA	CA-C-N	5.46	128.52	120.82
1	kO	174	ALA	C-N-CA	5.46	128.52	120.82
1	kP	215	MET	N-CA-C	5.46	117.23	111.28
1	kX	154	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	lL	117	TRP	CE2-CD2-CE3	5.46	124.26	118.80
1	lL	202	LEU	N-CA-C	5.46	116.91	111.07
1	lQ	21	ASN	CA-C-N	5.46	127.87	120.44
1	lQ	21	ASN	C-N-CA	5.46	127.87	120.44
1	2g	185	MET	N-CA-C	5.46	117.23	111.28
1	2n	130	TYR	N-CA-C	5.46	117.99	111.71
1	2p	12	HIS	N-CA-C	5.46	117.61	109.25
1	2x	210	THR	O-C-N	-5.46	116.62	122.85
1	2z	73	ILE	CA-C-N	5.46	128.05	120.29
1	2z	73	ILE	C-N-CA	5.46	128.05	120.29
1	2X	82	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	3f	40	PHE	CA-C-N	5.46	127.60	120.28
1	3f	40	PHE	C-N-CA	5.46	127.60	120.28
1	3k	23	TRP	O-C-N	-5.46	116.19	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3l	198	CYS	N-CA-C	5.46	116.91	111.07
1	3q	205	LEU	N-CA-C	-5.46	105.74	112.90
1	3r	144	MET	N-CA-CB	5.46	118.15	110.12
1	3I	184	TRP	CA-C-N	5.46	127.54	120.44
1	3I	184	TRP	C-N-CA	5.46	127.54	120.44
1	3M	70	LYS	N-CA-C	5.46	117.23	111.28
1	3O	7	GLN	CA-C-N	5.46	128.16	121.06
1	3O	7	GLN	C-N-CA	5.46	128.16	121.06
1	3S	185	MET	N-CA-C	5.46	117.23	111.28
1	47	178	SER	CA-CB-OG	5.46	122.02	111.10
1	4o	107	THR	N-CA-CB	5.46	118.74	110.28
1	4v	113	GLU	CA-C-N	5.46	127.60	120.28
1	4v	113	GLU	C-N-CA	5.46	127.60	120.28
1	4x	66	MET	O-C-N	-5.46	116.33	122.12
1	4C	143	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	4C	188	THR	O-C-N	-5.46	115.37	122.09
1	4F	206	GLY	CA-C-N	5.46	125.94	120.04
1	4F	206	GLY	C-N-CA	5.46	125.94	120.04
1	4I	159	GLU	N-CA-C	5.46	116.77	109.83
1	4K	106	GLY	CA-C-O	5.46	126.24	119.25
1	4T	21	ASN	CA-C-N	5.46	127.87	120.44
1	4T	21	ASN	C-N-CA	5.46	127.87	120.44
1	4Y	135	ILE	O-C-N	-5.46	116.57	121.87
1	50	166	ASP	N-CA-CB	-5.46	102.09	110.12
1	5b	160	PRO	CB-CA-C	-5.46	104.08	111.12
1	5l	62	HIS	ND1-CG-CD2	5.46	111.56	106.10
1	5y	23	TRP	CE2-CD2-CG	-5.46	100.65	107.20
1	5z	223	GLY	O-C-N	-5.46	116.31	121.77
1	5E	22	ALA	CA-C-N	5.46	127.87	120.44
1	5E	22	ALA	C-N-CA	5.46	127.87	120.44
1	5J	132	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	62	180	GLU	N-CA-CB	-5.46	102.09	110.12
1	6d	74	ASN	CA-CB-CG	5.46	118.06	112.60
1	6j	204	ALA	CA-C-N	5.46	127.87	120.44
1	6j	204	ALA	C-N-CA	5.46	127.87	120.44
1	6p	11	VAL	CA-C-O	5.46	126.41	120.57
1	6w	178	SER	N-CA-C	5.46	122.43	110.80
1	6L	75	GLU	CA-C-N	5.46	127.54	120.44
1	6L	75	GLU	C-N-CA	5.46	127.54	120.44
1	75	148	THR	CA-C-O	5.46	127.40	121.06
1	7u	139	ASN	CA-C-N	5.46	127.60	120.28
1	7u	139	ASN	C-N-CA	5.46	127.60	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7w	39	MET	O-C-N	-5.46	116.33	122.12
1	7F	138	LEU	O-C-N	-5.46	116.33	122.12
1	7R	146	SER	CA-C-N	5.46	126.67	119.84
1	7R	146	SER	C-N-CA	5.46	126.67	119.84
1	8g	201	ILE	CB-CA-C	-5.46	104.68	112.22
1	8h	27	VAL	N-CA-CB	5.46	117.97	110.54
1	8p	198	CYS	N-CA-C	-5.46	105.35	112.23
1	8s	164	TYR	CA-C-O	5.46	126.34	120.55
1	8J	28	GLU	CA-C-N	5.46	128.38	120.79
1	8J	28	GLU	C-N-CA	5.46	128.38	120.79
1	8J	56	LEU	CB-CA-C	-5.46	102.30	110.88
1	8O	228	ALA	O-C-N	-5.46	115.63	122.24
1	8Y	149	SER	N-CA-C	5.46	118.15	109.96
1	90	167	ARG	CD-NE-CZ	5.46	132.05	124.40
1	97	97	ARG	O-C-N	-5.46	116.09	122.81
1	9a	221	VAL	CA-C-O	5.46	127.37	121.36
1	9n	62	HIS	CB-CG-CD2	-5.46	124.10	131.20
1	9q	166	ASP	CB-CA-C	-5.46	101.72	110.79
1	9r	98	GLU	CB-CA-C	5.46	117.29	109.26
1	9I	120	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	9J	211	LEU	N-CA-C	5.46	117.23	111.28
1	9P	12	HIS	CA-CB-CG	5.46	119.26	113.80
1	9V	66	MET	CG-SD-CE	-5.46	88.88	100.90
1	9X	15	ILE	O-C-N	-5.46	116.82	122.66
1	9Y	162	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	ae	79	GLU	N-CA-C	5.46	117.23	111.28
1	ao	219	GLN	CG-CD-NE2	-5.46	108.21	116.40
1	ar	177	ALA	N-CA-C	5.46	117.78	110.35
1	at	210	THR	N-CA-CB	5.46	118.07	110.04
1	aN	90	PRO	CB-CA-C	5.46	118.55	110.85
1	14	18	ARG	NE-CZ-NH2	-5.46	114.28	119.20
1	aP	196	PRO	N-CA-C	5.46	122.63	113.78
1	aQ	4	GLN	N-CA-CB	5.46	119.08	110.56
1	aU	86	VAL	O-C-N	-5.46	115.76	122.97
1	aX	12	HIS	CB-CG-ND1	5.46	130.89	122.70
1	b1	130	TYR	O-C-N	-5.46	116.33	122.12
1	b5	100	ARG	CA-C-O	-5.46	115.66	121.94
1	b8	112	GLN	CA-C-N	5.46	127.60	120.28
1	b8	112	GLN	C-N-CA	5.46	127.60	120.28
1	bb	50	GLN	N-CA-C	5.46	117.23	111.28
1	bg	117	TRP	CA-C-N	5.46	131.15	120.99
1	bg	117	TRP	C-N-CA	5.46	131.15	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	17	159	GLU	CA-C-N	5.46	125.47	119.90
1	17	159	GLU	C-N-CA	5.46	125.47	119.90
1	bs	186	THR	N-CA-C	5.46	118.16	111.82
1	bO	183	ASN	OD1-CG-ND2	-5.46	117.14	122.60
1	bP	73	ILE	CA-CB-CG2	5.46	119.78	110.50
1	cd	159	GLU	CA-C-O	-5.46	115.02	120.64
1	ci	161	PHE	CA-CB-CG	-5.46	108.34	113.80
1	cj	33	SER	CA-C-N	5.46	125.13	119.56
1	cj	33	SER	C-N-CA	5.46	125.13	119.56
1	ck	191	VAL	CA-CB-CG1	5.46	119.69	110.40
1	cr	179	GLN	N-CA-C	5.46	117.68	111.02
1	cs	68	MET	CA-C-N	5.46	127.91	120.54
1	cs	68	MET	C-N-CA	5.46	127.91	120.54
1	cw	34	PRO	N-CA-C	-5.46	107.52	114.35
1	cE	61	GLY	CA-C-N	5.46	130.50	122.63
1	cE	61	GLY	C-N-CA	5.46	130.50	122.63
1	cX	195	ASN	CA-C-N	5.46	126.67	119.84
1	cX	195	ASN	C-N-CA	5.46	126.67	119.84
1	d9	142	VAL	O-C-N	-5.46	116.48	121.94
1	1j	91	ILE	O-C-N	-5.46	116.92	122.54
1	dC	134	ILE	CB-CA-C	-5.46	104.68	112.22
1	dN	11	VAL	O-C-N	-5.46	117.13	122.97
1	dR	15	ILE	O-C-N	-5.46	117.10	122.67
1	dT	229	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	e3	197	ASP	CA-C-O	5.46	126.10	119.38
1	e6	225	GLY	CA-C-O	5.46	126.38	120.75
1	e9	185	MET	CA-C-O	5.46	126.34	120.55
1	ee	125	PRO	N-CA-C	-5.46	101.22	112.47
1	ej	203	LYS	O-C-N	-5.46	115.92	122.15
1	eo	200	THR	N-CA-CB	5.46	117.93	110.01
1	eG	5	ASN	CA-C-O	5.46	125.68	119.18
1	eH	120	HIS	CA-CB-CG	-5.46	108.34	113.80
1	eL	140	LYS	N-CA-CB	5.46	117.93	110.01
1	eP	18	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	eV	152	ASP	N-CA-C	5.46	118.16	111.82
1	eV	191	VAL	CA-CB-CG1	5.46	119.68	110.40
1	eW	219	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	eX	112	GLN	CA-CB-CG	5.46	125.02	114.10
1	eX	226	HIS	CA-C-O	5.46	126.56	119.95
1	eY	149	SER	CA-C-O	5.46	126.60	120.70
1	eY	204	ALA	O-C-N	-5.46	114.93	122.30
1	f3	134	ILE	N-CA-CB	5.46	116.57	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fm	107	THR	CB-CA-C	-5.46	100.49	109.99
1	fy	22	ALA	N-CA-CB	-5.46	102.09	110.01
1	fz	177	ALA	O-C-N	-5.46	117.36	123.48
1	fF	189	LEU	CD1-CG-CD2	5.46	122.82	110.80
1	fK	102	SER	CA-C-N	5.46	127.54	120.44
1	fK	102	SER	C-N-CA	5.46	127.54	120.44
1	fM	123	PRO	N-CA-C	5.46	123.72	112.47
1	fV	81	ASP	N-CA-C	5.46	117.23	111.28
1	g1	70	LYS	O-C-N	-5.46	116.33	122.12
1	k	40	PHE	CA-C-N	5.46	127.54	120.44
1	k	40	PHE	C-N-CA	5.46	127.54	120.44
1	k	132	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	y	208	ALA	CA-C-O	5.46	125.82	119.32
1	A	117	TRP	CB-CG-CD2	5.46	134.44	126.80
1	N	137	GLY	CA-C-N	5.46	127.60	120.28
1	N	137	GLY	C-N-CA	5.46	127.60	120.28
1	O	15	ILE	CA-C-N	5.46	128.24	120.49
1	O	15	ILE	C-N-CA	5.46	128.24	120.49
1	O	215	MET	CG-SD-CE	-5.46	88.89	100.90
1	gI	61	GLY	CA-C-N	5.46	131.97	121.54
1	gI	61	GLY	C-N-CA	5.46	131.97	121.54
1	gU	48	THR	CA-CB-OG1	5.46	117.79	109.60
1	h2	170	LYS	O-C-N	-5.46	116.33	122.12
1	h6	132	ARG	N-CA-C	5.46	116.91	111.07
1	hy	56	LEU	N-CA-C	5.46	117.66	111.11
1	hA	79	GLU	CA-C-O	-5.46	114.76	120.55
1	hG	39	MET	CA-C-N	5.46	127.91	120.54
1	hG	39	MET	C-N-CA	5.46	127.91	120.54
1	hH	36	VAL	N-CA-CB	5.46	117.97	110.54
1	hO	160	PRO	O-C-N	-5.46	115.27	122.64
1	hQ	39	MET	CA-C-N	5.46	127.54	120.44
1	hQ	39	MET	C-N-CA	5.46	127.54	120.44
1	hR	116	GLY	CA-C-O	5.46	126.30	120.40
1	ic	144	MET	CG-SD-CE	-5.46	88.89	100.90
1	1R	82	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	iZ	135	ILE	N-CA-C	5.46	116.19	110.62
1	j4	30	LYS	CB-CG-CD	5.46	123.86	111.30
1	jc	27	VAL	CA-C-N	5.46	127.60	120.28
1	jc	27	VAL	C-N-CA	5.46	127.60	120.28
1	jm	36	VAL	CA-C-N	5.46	124.70	120.33
1	jm	36	VAL	C-N-CA	5.46	124.70	120.33
1	1W	18	ARG	NE-CZ-NH2	-5.46	114.29	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	223	GLY	CA-C-N	5.46	126.66	119.84
1	1W	223	GLY	C-N-CA	5.46	126.66	119.84
1	jE	154	ARG	NE-CZ-NH2	5.46	124.11	119.20
1	jP	82	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	ko	134	ILE	CA-C-N	5.46	127.44	120.56
1	ko	134	ILE	C-N-CA	5.46	127.44	120.56
1	ks	114	GLN	CA-C-N	5.46	129.25	120.30
1	ks	114	GLN	C-N-CA	5.46	129.25	120.30
1	kB	146	SER	CB-CA-C	-5.46	100.85	109.42
1	kG	32	PHE	CB-CA-C	5.46	119.69	110.79
1	kG	114	GLN	CA-C-O	5.46	126.34	120.55
1	l5	101	GLY	CA-C-N	5.46	128.61	120.31
1	l5	101	GLY	C-N-CA	5.46	128.61	120.31
1	lk	229	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	2a	161	PHE	CA-C-N	5.46	127.86	120.38
1	2a	161	PHE	C-N-CA	5.46	127.86	120.38
1	2i	119	THR	N-CA-CB	5.46	119.99	110.98
1	2z	170	LYS	CA-C-N	5.46	127.60	120.28
1	2z	170	LYS	C-N-CA	5.46	127.60	120.28
1	2E	3	VAL	CA-C-N	5.46	131.97	121.54
1	2E	3	VAL	C-N-CA	5.46	131.97	121.54
1	2R	189	LEU	N-CA-C	5.46	118.15	111.82
1	3w	25	LYS	O-C-N	-5.46	116.45	122.07
1	3w	136	LEU	O-C-N	5.46	127.91	122.12
1	3w	154	ARG	NH1-CZ-NH2	-5.46	112.20	119.30
1	3N	8	GLY	O-C-N	-5.46	115.75	122.58
1	47	119	THR	N-CA-C	-5.46	106.29	113.17
1	4a	66	MET	CA-C-O	5.46	126.34	120.55
1	4z	16	SER	O-C-N	-5.46	115.68	121.30
1	4H	62	HIS	N-CA-C	5.46	118.77	111.24
1	55	62	HIS	CA-C-N	5.46	128.61	120.31
1	55	62	HIS	C-N-CA	5.46	128.61	120.31
1	57	100	ARG	O-C-N	-5.46	115.33	122.59
1	5b	197	ASP	CA-CB-CG	-5.46	107.14	112.60
1	61	168	PHE	CB-CA-C	5.46	119.45	110.88
1	67	27	VAL	CA-C-O	5.46	126.73	121.05
1	6C	70	LYS	N-CA-C	5.46	118.15	111.82
1	6W	140	LYS	CB-CA-C	-5.46	101.73	110.79
1	7h	17	PRO	N-CD-CG	5.46	111.39	103.20
1	7r	28	GLU	CA-C-O	5.46	126.55	120.82
1	8i	103	ASP	CA-CB-CG	-5.46	107.14	112.60
1	8B	64	ALA	N-CA-C	5.46	117.31	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8R	12	HIS	N-CA-CB	5.46	118.59	110.29
1	9r	80	TRP	CA-C-O	-5.46	114.73	120.63
1	9t	105	ALA	N-CA-C	5.46	122.43	110.80
1	9S	192	GLN	OE1-CD-NE2	5.46	128.06	122.60
1	9X	110	THR	CA-C-N	5.46	131.97	121.54
1	9X	110	THR	C-N-CA	5.46	131.97	121.54
1	a0	108	THR	N-CA-C	-5.46	105.98	113.30
1	ai	9	GLN	CG-CD-NE2	5.46	124.59	116.40
1	13	93	PRO	N-CA-C	5.46	123.72	112.47
1	ba	6	LEU	N-CA-C	5.46	117.99	111.71
1	bj	36	VAL	N-CA-C	5.46	115.66	110.42
1	bo	192	GLN	N-CA-C	5.46	118.15	111.82
1	bA	74	ASN	CA-C-N	5.46	127.54	120.44
1	bA	74	ASN	C-N-CA	5.46	127.54	120.44
1	bF	201	ILE	CA-C-N	5.46	127.60	120.28
1	bF	201	ILE	C-N-CA	5.46	127.60	120.28
1	bG	84	HIS	CA-C-N	5.46	125.44	120.03
1	bG	84	HIS	C-N-CA	5.46	125.44	120.03
1	bH	135	ILE	N-CA-C	5.46	116.19	110.62
1	bN	229	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	bZ	69	LEU	CA-C-O	5.46	126.74	120.90
1	ci	192	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	cl	137	GLY	N-CA-C	5.46	119.28	112.73
1	cL	23	TRP	CG-CD1-NE1	-5.46	103.10	110.20
1	d5	1	PRO	CB-CA-C	5.46	120.47	110.10
1	dc	160	PRO	N-CA-CB	-5.46	97.73	103.19
1	df	154	ARG	CA-C-N	5.46	128.52	120.82
1	df	154	ARG	C-N-CA	5.46	128.52	120.82
1	dv	82	ARG	CA-C-N	5.46	127.87	120.44
1	dv	82	ARG	C-N-CA	5.46	127.87	120.44
1	dN	59	VAL	CB-CA-C	5.46	118.65	111.33
1	dY	148	THR	CA-CB-OG1	5.46	117.79	109.60
1	e4	72	THR	CA-CB-CG2	5.46	119.78	110.50
1	e9	59	VAL	N-CA-C	5.46	117.32	109.51
1	en	134	ILE	N-CA-C	5.46	116.19	110.62
1	eo	114	GLN	CA-C-N	5.46	127.94	120.46
1	eo	114	GLN	C-N-CA	5.46	127.94	120.46
1	eD	127	GLY	O-C-N	5.46	127.43	122.19
1	eO	165	VAL	CA-C-O	5.46	126.95	121.27
1	fo	87	HIS	N-CA-C	5.46	118.39	110.42
1	fy	18	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	fR	84	HIS	CG-CD2-NE2	5.46	112.66	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	32	PHE	CA-C-O	5.46	125.92	119.48
1	U	128	GLU	O-C-N	-5.46	116.33	122.12
1	gg	181	VAL	CA-CB-CG2	-5.46	101.12	110.40
1	go	212	GLU	CG-CD-OE2	-5.46	105.85	118.40
1	gq	202	LEU	O-C-N	-5.46	116.33	122.12
1	gs	132	ARG	CA-C-O	5.46	126.34	120.55
1	gu	182	LYS	CA-C-N	5.46	127.53	120.44
1	gu	182	LYS	C-N-CA	5.46	127.53	120.44
1	gw	145	TYR	N-CA-C	-5.46	107.19	112.97
1	gC	63	GLN	CA-C-O	5.46	126.27	120.10
1	gJ	163	ASP	CA-C-N	5.46	127.54	120.44
1	gJ	163	ASP	C-N-CA	5.46	127.54	120.44
1	gZ	117	TRP	O-C-N	-5.46	116.33	122.12
1	h4	184	TRP	CA-C-N	5.46	127.54	120.44
1	h4	184	TRP	C-N-CA	5.46	127.54	120.44
1	hc	230	VAL	N-CA-C	5.46	116.45	109.30
1	1I	68	MET	CA-C-N	5.46	127.54	120.44
1	1I	68	MET	C-N-CA	5.46	127.54	120.44
1	ht	150	ILE	CA-CB-CG1	5.46	119.68	110.40
1	hO	185	MET	CG-SD-CE	-5.46	88.89	100.90
1	ie	54	THR	CA-C-N	5.46	127.91	120.54
1	ie	54	THR	C-N-CA	5.46	127.91	120.54
1	ih	229	ARG	CA-C-O	5.46	126.38	120.32
1	io	199	LYS	N-CA-C	5.46	117.66	111.11
1	iu	150	ILE	O-C-N	-5.46	114.90	122.05
1	iz	154	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	1R	100	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	iY	196	PRO	CA-C-N	5.46	129.91	120.58
1	iY	196	PRO	C-N-CA	5.46	129.91	120.58
1	jd	169	TYR	O-C-N	-5.46	116.45	122.07
1	jj	180	GLU	N-CA-C	5.46	117.93	111.33
1	jE	72	THR	CA-C-N	5.46	127.44	120.56
1	jE	72	THR	C-N-CA	5.46	127.44	120.56
1	jS	213	GLU	N-CA-C	5.46	118.15	111.82
1	k0	19	THR	N-CA-CB	5.46	118.14	110.12
1	kh	193	ASN	CA-CB-CG	-5.46	107.14	112.60
1	ki	89	GLY	CA-C-N	5.46	126.66	119.84
1	ki	89	GLY	C-N-CA	5.46	126.66	119.84
1	kx	207	PRO	N-CA-CB	-5.46	98.02	103.20
1	kC	139	ASN	CA-CB-CG	5.46	118.06	112.60
1	kG	147	PRO	N-CA-CB	5.46	107.91	103.32
1	kH	39	MET	CA-C-O	5.46	126.74	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kH	79	GLU	CA-C-N	5.46	129.84	120.72
1	kH	79	GLU	C-N-CA	5.46	129.84	120.72
1	kR	178	SER	O-C-N	-5.46	116.63	122.85
1	kT	85	PRO	CA-C-O	-5.46	115.19	121.36
1	kW	170	LYS	CA-C-N	5.46	127.54	120.44
1	kW	170	LYS	C-N-CA	5.46	127.54	120.44
1	l4	17	PRO	N-CA-CB	5.46	108.98	103.25
1	l7	114	GLN	CB-CA-C	5.46	119.45	110.88
1	li	182	LYS	CA-C-N	5.46	127.59	120.28
1	li	182	LYS	C-N-CA	5.46	127.59	120.28
1	ln	5	ASN	CA-CB-CG	5.46	118.06	112.60
1	ln	12	HIS	CB-CG-CD2	-5.46	124.10	131.20
1	lq	69	LEU	O-C-N	-5.46	116.41	122.09
1	lw	215	MET	CA-C-O	5.46	126.03	119.43
1	29	146	SER	CA-C-O	-5.46	112.68	120.16
1	lJ	62	HIS	CA-C-N	5.46	130.69	121.14
1	lJ	62	HIS	C-N-CA	5.46	130.69	121.14
1	lP	12	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	2e	62	HIS	ND1-CG-CD2	5.46	111.56	106.10
1	2e	131	LYS	N-CA-C	5.46	116.91	111.07
1	2g	70	LYS	O-C-N	-5.46	116.33	122.12
1	2j	31	ALA	N-CA-C	5.46	117.31	108.08
1	2n	217	ALA	CA-C-N	5.46	130.31	122.40
1	2n	217	ALA	C-N-CA	5.46	130.31	122.40
1	2q	20	LEU	CA-C-N	5.46	127.59	120.28
1	2q	20	LEU	C-N-CA	5.46	127.59	120.28
1	2s	191	VAL	O-C-N	-5.46	116.21	121.83
1	2G	216	THR	N-CA-CB	5.46	119.45	110.39
1	2O	207	PRO	N-CA-CB	5.46	108.98	103.25
1	2S	201	ILE	O-C-N	5.46	127.45	121.83
1	2V	173	ARG	N-CA-C	5.46	117.23	111.28
1	33	154	ARG	O-C-N	-5.46	116.61	123.27
1	3m	134	ILE	CA-C-N	5.46	128.17	120.42
1	3m	134	ILE	C-N-CA	5.46	128.17	120.42
1	3w	178	SER	CA-C-N	5.46	127.86	120.38
1	3w	178	SER	C-N-CA	5.46	127.86	120.38
1	3w	226	HIS	CA-CB-CG	5.46	119.26	113.80
1	3y	207	PRO	N-CA-C	5.46	121.73	113.81
1	3B	6	LEU	CA-C-N	5.46	128.04	120.29
1	3B	6	LEU	C-N-CA	5.46	128.04	120.29
1	3I	129	ILE	CA-C-O	5.46	126.96	121.17
1	3N	51	ASP	O-C-N	-5.46	116.33	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3U	188	THR	N-CA-C	5.46	118.40	111.69
1	3Y	197	ASP	N-CA-C	5.46	117.23	111.28
1	46	112	GLN	CA-C-N	5.46	127.59	120.28
1	46	112	GLN	C-N-CA	5.46	127.59	120.28
1	4a	40	PHE	CA-C-O	5.46	126.21	120.42
1	4h	147	PRO	CB-CA-C	5.46	118.38	111.39
1	4m	132	ARG	CA-C-O	5.46	126.55	120.82
1	4t	230	VAL	CA-C-N	5.46	131.53	121.70
1	4t	230	VAL	C-N-CA	5.46	131.53	121.70
1	4C	171	THR	CA-C-N	5.46	127.86	120.38
1	4C	171	THR	C-N-CA	5.46	127.86	120.38
1	4F	104	ILE	CA-CB-CG1	5.46	119.68	110.40
1	4K	92	GLU	N-CA-C	5.46	117.43	109.84
1	4V	201	ILE	N-CA-CB	5.46	118.77	110.58
1	56	52	LEU	O-C-N	-5.46	116.33	122.12
1	5b	188	THR	CA-CB-OG1	5.46	117.79	109.60
1	5A	209	ALA	N-CA-C	5.46	118.15	109.96
1	5Y	33	SER	CA-C-O	-5.46	114.34	119.91
1	67	48	THR	N-CA-CB	5.46	116.07	109.74
1	6D	190	LEU	CA-C-N	5.46	129.25	120.30
1	6D	190	LEU	C-N-CA	5.46	129.25	120.30
1	6K	218	CYS	CA-C-O	5.46	127.50	121.39
1	6N	129	ILE	O-C-N	-5.46	116.21	121.83
1	6Z	60	GLY	O-C-N	-5.46	116.95	122.19
1	74	132	ARG	N-CA-C	5.46	117.23	111.28
1	77	62	HIS	ND1-CG-CD2	5.46	111.56	106.10
1	77	185	MET	N-CA-C	5.46	117.99	111.71
1	7d	201	ILE	N-CA-CB	5.46	116.94	110.55
1	7g	27	VAL	CA-C-N	5.46	127.86	120.38
1	7g	27	VAL	C-N-CA	5.46	127.86	120.38
1	7g	61	GLY	CA-C-N	5.46	130.16	122.46
1	7g	61	GLY	C-N-CA	5.46	130.16	122.46
1	7h	143	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	7m	149	SER	N-CA-CB	5.46	118.37	109.69
1	7p	138	LEU	CA-C-N	5.46	128.61	120.31
1	7p	138	LEU	C-N-CA	5.46	128.61	120.31
1	7q	82	ARG	N-CA-C	5.46	117.23	111.28
1	7r	164	TYR	O-C-N	-5.46	116.45	122.07
1	7t	37	ILE	O-C-N	-5.46	114.88	121.10
1	7u	155	GLN	CA-C-O	5.46	127.28	121.11
1	7v	50	GLN	N-CA-C	5.46	117.66	111.11
1	7x	219	GLN	OE1-CD-NE2	-5.46	117.14	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7C	24	VAL	O-C-N	5.46	127.45	121.83
1	7E	196	PRO	CA-C-N	5.46	127.59	120.28
1	7E	196	PRO	C-N-CA	5.46	127.59	120.28
1	7H	136	LEU	CA-C-N	5.46	125.89	119.94
1	7H	136	LEU	C-N-CA	5.46	125.89	119.94
1	7U	188	THR	CA-C-N	5.46	127.59	120.28
1	7U	188	THR	C-N-CA	5.46	127.59	120.28
1	7Y	28	GLU	CA-C-O	5.46	126.21	120.42
1	81	187	GLU	CB-CG-CD	5.46	121.88	112.60
1	86	16	SER	CA-C-O	-5.46	113.77	120.05
1	8a	11	VAL	O-C-N	-5.46	116.98	123.04
1	8b	124	ILE	CB-CA-C	-5.46	105.89	111.08
1	8b	161	PHE	CA-C-O	5.46	126.25	119.97
1	8l	63	GLN	O-C-N	-5.46	116.45	122.07
1	8m	211	LEU	O-C-N	-5.46	116.33	122.12
1	8x	167	ARG	CD-NE-CZ	5.46	132.04	124.40
1	8y	162	ARG	CA-CB-CG	5.46	125.02	114.10
1	8N	224	PRO	O-C-N	-5.46	115.27	122.64
1	8Q	121	ASN	CA-C-O	-5.46	113.87	119.49
1	9a	134	ILE	O-C-N	-5.46	116.58	121.87
1	9b	143	ARG	N-CA-C	5.46	117.23	111.28
1	9s	20	LEU	N-CA-C	5.46	117.31	111.36
1	9v	103	ASP	N-CA-C	-5.46	105.41	111.36
1	9E	149	SER	N-CA-CB	5.46	119.72	110.49
1	9K	134	ILE	N-CA-C	5.46	116.19	110.62
1	9K	229	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	9M	205	LEU	CA-C-O	-5.46	115.06	120.90
1	9S	66	MET	N-CA-C	5.46	117.23	111.28
1	9V	74	ASN	CA-C-O	-5.46	115.09	120.82
1	9W	139	ASN	O-C-N	-5.46	116.33	122.12
1	9Z	11	VAL	N-CA-C	5.46	116.09	108.89
1	a9	124	ILE	N-CA-CB	5.46	118.85	111.21
1	aw	126	VAL	N-CA-C	5.46	117.87	111.05
1	aG	139	ASN	CA-C-N	5.46	127.54	120.44
1	aG	139	ASN	C-N-CA	5.46	127.54	120.44
1	aG	154	ARG	CB-CA-C	-5.46	100.47	111.17
1	aI	110	THR	N-CA-C	-5.46	101.68	110.14
1	aO	224	PRO	CB-CA-C	5.46	120.57	111.56
1	bl	173	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	18	215	MET	CA-C-N	5.46	128.61	120.31
1	18	215	MET	C-N-CA	5.46	128.61	120.31
1	bt	90	PRO	O-C-N	-5.46	116.55	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	221	VAL	CA-C-O	-5.46	114.69	120.48
1	19	80	TRP	N-CA-CB	-5.46	101.81	109.94
1	bK	228	ALA	N-CA-CB	-5.46	102.41	110.49
1	bL	14	ALA	O-C-N	-5.46	116.22	122.93
1	ce	5	ASN	CA-CB-CG	5.46	118.06	112.60
1	cg	114	GLN	N-CA-C	5.46	116.91	111.07
1	cA	161	PHE	CA-C-N	5.46	127.54	120.44
1	cA	161	PHE	C-N-CA	5.46	127.54	120.44
1	cB	62	HIS	CG-CD2-NE2	-5.46	101.74	107.20
1	cJ	60	GLY	CA-C-N	5.46	128.50	121.13
1	cJ	60	GLY	C-N-CA	5.46	128.50	121.13
1	cL	75	GLU	CA-C-N	5.46	127.59	120.28
1	cL	75	GLU	C-N-CA	5.46	127.59	120.28
1	cQ	197	ASP	CA-C-N	5.46	128.04	120.29
1	cQ	197	ASP	C-N-CA	5.46	128.04	120.29
1	cY	155	GLN	CB-CA-C	-5.46	102.07	110.26
1	d4	224	PRO	N-CA-CB	5.46	109.31	103.52
1	dD	224	PRO	N-CA-C	5.46	119.80	111.34
1	dJ	146	SER	CA-C-N	5.46	126.66	119.84
1	dJ	146	SER	C-N-CA	5.46	126.66	119.84
1	dL	119	THR	CA-C-O	5.46	125.74	119.35
1	dQ	35	GLU	N-CA-C	-5.46	106.46	113.23
1	dU	111	LEU	CA-C-N	5.46	127.59	120.28
1	dU	111	LEU	C-N-CA	5.46	127.59	120.28
1	dY	20	LEU	O-C-N	-5.46	116.33	122.12
1	e9	136	LEU	N-CA-C	5.46	116.91	111.07
1	ea	124	ILE	O-C-N	-5.46	117.20	121.46
1	1p	35	GLU	CA-C-O	5.46	126.31	120.20
1	1p	178	SER	N-CA-C	5.46	118.20	110.50
1	ed	110	THR	CA-C-N	5.46	128.14	120.28
1	ed	110	THR	C-N-CA	5.46	128.14	120.28
1	ej	132	ARG	CA-C-O	-5.46	114.63	120.42
1	ej	140	LYS	CA-C-N	5.46	127.44	120.56
1	ej	140	LYS	C-N-CA	5.46	127.44	120.56
1	ek	195	ASN	CA-C-N	5.46	126.66	119.84
1	ek	195	ASN	C-N-CA	5.46	126.66	119.84
1	1q	226	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	em	195	ASN	CA-CB-CG	-5.46	107.14	112.60
1	eq	202	LEU	N-CA-C	5.46	117.66	111.11
1	es	162	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	ex	62	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	eD	2	ILE	N-CA-C	5.46	116.12	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	81	ASP	CA-CB-CG	-5.46	107.14	112.60
1	eW	226	HIS	O-C-N	-5.46	116.80	123.19
1	f8	224	PRO	N-CA-C	5.46	119.89	111.21
1	fr	145	TYR	N-CA-CB	5.46	118.14	110.12
1	fr	209	ALA	N-CA-C	5.46	118.14	110.23
1	fC	2	ILE	O-C-N	-5.46	117.15	122.99
1	fI	81	ASP	N-CA-CB	-5.46	102.07	110.20
1	f	1	PRO	O-C-N	-5.46	114.27	123.00
1	m	33	SER	CA-C-N	5.46	126.66	119.84
1	m	33	SER	C-N-CA	5.46	126.66	119.84
1	m	110	THR	CA-CB-OG1	5.46	117.79	109.60
1	m	117	TRP	CE2-CD2-CE3	5.46	124.26	118.80
1	n	163	ASP	CA-C-O	-5.46	114.63	120.42
1	o	44	SER	CA-C-N	-5.46	114.49	122.19
1	o	44	SER	C-N-CA	-5.46	114.49	122.19
1	y	36	VAL	N-CA-C	5.46	116.84	110.62
1	E	31	ALA	CB-CA-C	5.46	121.28	110.42
1	M	185	MET	N-CA-C	5.46	117.23	111.28
1	4	176	GLN	CB-CA-C	-5.46	100.38	109.55
1	6	20	LEU	N-CA-C	5.46	117.23	111.28
1	gd	100	ARG	CA-C-N	5.46	132.11	121.41
1	gd	100	ARG	C-N-CA	5.46	132.11	121.41
1	gn	38	PRO	CA-C-N	5.46	127.53	120.44
1	gn	38	PRO	C-N-CA	5.46	127.53	120.44
1	gp	40	PHE	CA-C-O	5.46	126.33	120.55
1	gr	219	GLN	CA-C-N	5.46	125.89	119.94
1	gr	219	GLN	C-N-CA	5.46	125.89	119.94
1	1D	110	THR	CA-CB-OG1	5.46	117.78	109.60
1	gy	9	GLN	CB-CA-C	-5.46	101.50	110.72
1	1E	84	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	gI	159	GLU	N-CA-C	5.46	117.52	109.50
1	gI	210	THR	CA-C-O	-5.46	115.77	121.55
1	gM	81	ASP	CA-C-O	5.46	126.30	120.24
1	gM	231	LEU	N-CA-CB	5.46	119.78	110.50
1	gP	182	LYS	N-CA-C	5.46	116.91	111.07
1	ha	230	VAL	CA-C-O	5.46	127.36	121.36
1	hl	120	HIS	N-CA-C	5.46	118.73	111.75
1	hp	184	TRP	CB-CA-C	5.46	119.85	110.79
1	hy	63	GLN	OE1-CD-NE2	-5.46	117.14	122.60
1	hK	81	ASP	CA-C-O	5.46	126.33	120.55
1	hM	178	SER	N-CA-C	5.46	117.37	110.33
1	hO	229	ARG	N-CA-CB	5.46	118.07	109.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hP	170	LYS	O-C-N	5.46	128.60	122.22
1	i8	188	THR	N-CA-C	5.46	120.43	113.55
1	ib	22	ALA	CA-C-N	5.46	127.59	120.28
1	ib	22	ALA	C-N-CA	5.46	127.59	120.28
1	ih	36	VAL	CA-C-N	5.46	123.68	120.24
1	ih	36	VAL	C-N-CA	5.46	123.68	120.24
1	ik	4	GLN	N-CA-CB	5.46	118.06	110.26
1	ik	97	ARG	NE-CZ-NH2	5.46	124.11	119.20
1	il	143	ARG	NE-CZ-NH2	5.46	124.11	119.20
1	it	46	GLY	O-C-N	-5.46	115.55	122.32
1	iz	16	SER	CB-CA-C	5.46	115.57	110.17
1	iE	79	GLU	CA-C-N	5.46	127.53	120.44
1	iE	79	GLU	C-N-CA	5.46	127.53	120.44
1	iP	213	GLU	CA-C-N	5.46	128.04	120.29
1	iP	213	GLU	C-N-CA	5.46	128.04	120.29
1	iW	82	ARG	N-CA-C	5.46	117.23	111.28
1	jl	113	GLU	CA-C-O	-5.46	115.09	120.82
1	1V	164	TYR	N-CA-C	5.46	117.31	111.36
1	1V	187	GLU	N-CA-C	5.46	118.15	111.82
1	1W	127	GLY	N-CA-C	5.46	120.68	113.37
1	jx	148	THR	O-C-N	-5.46	116.16	122.87
1	jJ	186	THR	N-CA-CB	5.46	118.14	110.12
1	jL	155	GLN	CA-C-N	5.46	128.34	121.36
1	jL	155	GLN	C-N-CA	5.46	128.34	121.36
1	jO	67	GLN	N-CA-C	5.46	116.91	111.07
1	1Y	171	THR	N-CA-CB	5.46	118.24	110.16
1	k5	208	ALA	N-CA-CB	-5.46	102.59	110.56
1	k8	178	SER	N-CA-C	5.46	118.19	110.50
1	ke	160	PRO	N-CA-CB	-5.46	97.52	103.25
1	21	80	TRP	N-CA-CB	5.46	117.92	110.01
1	ky	26	VAL	O-C-N	-5.46	116.58	121.87
1	kH	164	TYR	O-C-N	-5.46	116.45	122.07
1	kH	177	ALA	CA-C-O	5.46	127.10	120.99
1	kT	112	GLN	CA-C-N	5.46	128.04	120.29
1	kT	112	GLN	C-N-CA	5.46	128.04	120.29
1	kT	179	GLN	N-CA-C	5.46	117.23	111.28
1	kW	200	THR	N-CA-CB	5.46	118.14	110.12
1	l5	149	SER	N-CA-CB	5.46	118.07	109.83
1	lh	116	GLY	O-C-N	-5.46	116.73	122.13
1	28	94	GLY	CA-C-N	5.46	131.61	121.62
1	28	94	GLY	C-N-CA	5.46	131.61	121.62
1	ls	62	HIS	ND1-CE1-NE2	5.46	113.86	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lw	185	MET	N-CA-C	5.46	117.31	111.36
1	lE	174	ALA	N-CA-C	5.46	118.15	111.82
1	2l	82	ARG	NH1-CZ-NH2	-5.46	112.21	119.30
1	2m	185	MET	CB-CA-C	-5.46	101.73	110.79
1	2n	137	GLY	CA-C-N	5.46	127.59	120.28
1	2n	137	GLY	C-N-CA	5.46	127.59	120.28
1	2q	51	ASP	CA-CB-CG	-5.46	107.14	112.60
1	2C	22	ALA	N-CA-C	5.46	117.23	111.28
1	2D	151	LEU	CA-C-O	-5.46	115.06	120.90
1	2L	218	CYS	N-CA-C	5.46	122.42	110.80
1	2O	100	ARG	CA-C-N	5.46	126.14	120.03
1	2O	100	ARG	C-N-CA	5.46	126.14	120.03
1	2Q	3	VAL	O-C-N	5.46	129.49	123.10
1	2X	94	GLY	CA-C-O	-5.46	112.95	119.01
1	2X	139	ASN	CA-C-N	5.46	127.53	120.44
1	2X	139	ASN	C-N-CA	5.46	127.53	120.44
1	2Z	138	LEU	CA-C-N	5.46	127.59	120.28
1	2Z	138	LEU	C-N-CA	5.46	127.59	120.28
1	3c	40	PHE	N-CA-C	-5.46	105.41	111.36
1	40	48	THR	OG1-CB-CG2	-5.46	98.39	109.30
1	4k	36	VAL	CA-CB-CG1	5.46	119.68	110.40
1	4M	95	GLN	CB-CG-CD	5.46	121.87	112.60
1	4S	193	ASN	OD1-CG-ND2	-5.46	117.14	122.60
1	4V	21	ASN	CA-CB-CG	-5.46	107.14	112.60
1	55	192	GLN	N-CA-CB	5.46	118.33	110.20
1	5c	105	ALA	CA-C-O	5.46	126.08	119.31
1	5f	64	ALA	O-C-N	-5.46	116.45	122.07
1	5m	144	MET	CA-C-O	5.46	126.55	120.82
1	5p	59	VAL	CA-CB-CG1	5.46	119.68	110.40
1	6a	3	VAL	CA-C-N	5.46	131.19	121.75
1	6a	3	VAL	C-N-CA	5.46	131.19	121.75
1	6c	62	HIS	CA-CB-CG	-5.46	108.34	113.80
1	6d	201	ILE	CA-C-N	5.46	127.53	120.44
1	6d	201	ILE	C-N-CA	5.46	127.53	120.44
1	6q	90	PRO	CA-C-N	5.46	128.02	120.49
1	6q	90	PRO	C-N-CA	5.46	128.02	120.49
1	6x	169	TYR	N-CA-C	5.46	117.98	111.71
1	6D	121	ASN	O-C-N	-5.46	116.53	121.39
1	6D	197	ASP	CA-C-N	5.46	128.60	120.31
1	6D	197	ASP	C-N-CA	5.46	128.60	120.31
1	6L	96	MET	CA-C-O	5.46	127.87	121.87
1	6L	166	ASP	CA-CB-CG	5.46	118.06	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	26	VAL	CA-CB-CG1	-5.46	101.12	110.40
1	7h	25	LYS	N-CA-C	5.46	118.40	111.69
1	7k	159	GLU	N-CA-C	5.46	117.33	109.04
1	7m	83	LEU	N-CA-C	5.46	117.03	111.14
1	7o	80	TRP	O-C-N	-5.46	116.34	122.12
1	7u	150	ILE	N-CA-C	5.46	116.19	110.62
1	7A	153	ILE	CA-CB-CG1	5.46	119.67	110.40
1	7C	172	LEU	N-CA-C	5.46	117.23	111.28
1	7N	226	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	7V	191	VAL	CA-C-O	-5.46	115.00	119.97
1	82	128	GLU	CA-C-N	5.46	127.43	120.56
1	82	128	GLU	C-N-CA	5.46	127.43	120.56
1	8b	226	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	8e	68	MET	O-C-N	-5.46	116.34	122.12
1	8f	157	PRO	CA-C-N	-5.46	113.99	122.67
1	8f	157	PRO	C-N-CA	-5.46	113.99	122.67
1	8m	112	GLN	CA-C-N	5.46	128.04	120.29
1	8m	112	GLN	C-N-CA	5.46	128.04	120.29
1	8n	162	ARG	N-CA-CB	5.46	118.14	110.12
1	8p	183	ASN	CB-CG-ND2	-5.46	108.22	116.40
1	8r	16	SER	CA-C-O	-5.46	114.34	119.80
1	8s	9	GLN	CA-C-N	5.46	131.96	121.54
1	8s	9	GLN	C-N-CA	5.46	131.96	121.54
1	8t	52	LEU	O-C-N	-5.46	116.45	122.07
1	8u	227	LYS	N-CA-CB	5.46	119.27	110.65
1	8x	13	GLN	CG-CD-NE2	5.46	124.58	116.40
1	8y	145	TYR	O-C-N	-5.46	116.86	123.13
1	8I	139	ASN	N-CA-C	5.46	117.93	111.33
1	8O	73	ILE	CA-C-O	5.46	126.62	120.95
1	8P	117	TRP	N-CA-C	5.46	117.23	111.28
1	96	199	LYS	CA-C-N	5.46	128.37	120.79
1	96	199	LYS	C-N-CA	5.46	128.37	120.79
1	97	74	ASN	CA-CB-CG	-5.46	107.14	112.60
1	97	120	HIS	CA-C-O	-5.46	115.61	121.56
1	9o	162	ARG	CA-C-N	5.46	127.86	120.44
1	9o	162	ARG	C-N-CA	5.46	127.86	120.44
1	9r	96	MET	N-CA-C	5.46	118.14	110.23
1	9X	13	GLN	CA-C-O	5.46	126.59	120.70
1	Z	23	TRP	O-C-N	5.46	127.69	122.07
1	a0	166	ASP	CA-C-N	5.46	128.38	120.79
1	a0	166	ASP	C-N-CA	5.46	128.38	120.79
1	a2	201	ILE	CA-C-O	-5.46	115.07	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a9	186	THR	CA-CB-CG2	5.46	119.78	110.50
1	ab	226	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
1	ac	62	HIS	N-CA-C	5.46	118.77	111.24
1	aw	152	ASP	O-C-N	-5.46	115.02	122.33
1	aG	214	MET	CG-SD-CE	-5.46	88.89	100.90
1	aI	226	HIS	CA-C-N	5.46	131.41	121.97
1	aI	226	HIS	C-N-CA	5.46	131.41	121.97
1	15	57	ASN	CA-CB-CG	5.46	118.06	112.60
1	15	86	VAL	N-CA-C	5.46	117.31	109.51
1	b3	150	ILE	CA-C-N	5.46	127.59	120.28
1	b3	150	ILE	C-N-CA	5.46	127.59	120.28
1	b7	189	LEU	CA-C-O	5.46	126.25	119.97
1	bo	167	ARG	O-C-N	-5.46	116.34	122.12
1	bs	132	ARG	CA-C-N	5.46	128.04	120.29
1	bs	132	ARG	C-N-CA	5.46	128.04	120.29
1	bt	141	ILE	O-C-N	-5.46	116.21	121.83
1	bu	170	LYS	N-CA-C	5.46	117.23	111.28
1	bv	230	VAL	CA-CB-CG2	5.46	119.68	110.40
1	bw	9	GLN	OE1-CD-NE2	5.46	128.06	122.60
1	bM	71	GLU	CA-C-N	5.46	127.59	120.28
1	bM	71	GLU	C-N-CA	5.46	127.59	120.28
1	bO	52	LEU	O-C-N	-5.46	116.34	122.12
1	bY	213	GLU	CA-C-O	-5.46	114.64	120.42
1	c3	9	GLN	CA-C-N	5.46	131.96	121.54
1	c3	9	GLN	C-N-CA	5.46	131.96	121.54
1	1c	115	ILE	CA-C-N	5.46	126.16	119.99
1	1c	115	ILE	C-N-CA	5.46	126.16	119.99
1	ca	82	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	ca	107	THR	N-CA-CB	5.46	119.50	110.33
1	cb	167	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	1d	159	GLU	CA-C-N	5.46	125.36	119.85
1	1d	159	GLU	C-N-CA	5.46	125.36	119.85
1	cr	230	VAL	O-C-N	-5.46	117.50	123.18
1	cB	82	ARG	NE-CZ-NH2	-5.46	114.29	119.20
1	cI	43	LEU	N-CA-C	5.46	117.23	111.28
1	cV	197	ASP	CA-C-O	5.46	126.09	119.38
1	cW	87	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	da	56	LEU	N-CA-C	5.46	117.93	111.33
1	df	144	MET	N-CA-C	5.46	117.23	111.28
1	dr	112	GLN	N-CA-C	5.46	118.15	111.82
1	dr	217	ALA	N-CA-C	5.46	117.57	110.53
1	ds	15	ILE	CA-CB-CG2	-5.46	101.22	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	du	177	ALA	O-C-N	-5.46	115.33	122.59
1	dv	197	ASP	CA-C-O	-5.46	114.77	120.55
1	dC	84	HIS	O-C-N	5.46	126.28	121.37
1	dF	12	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	ek	112	GLN	CA-C-O	5.46	126.33	120.55
1	eu	145	TYR	CB-CG-CD2	5.46	128.99	120.80
1	1r	164	TYR	CA-C-O	5.46	126.33	120.55
1	ew	144	MET	CA-C-O	5.46	126.20	120.42
1	eM	188	THR	O-C-N	-5.46	116.45	122.07
1	eQ	43	LEU	N-CA-CB	5.46	117.88	109.91
1	1u	3	VAL	N-CA-C	5.46	115.81	108.17
1	1u	81	ASP	O-C-N	-5.46	116.34	122.12
1	f3	147	PRO	N-CA-CB	-5.46	97.52	103.25
1	f9	132	ARG	NE-CZ-NH1	5.46	126.96	121.50
1	fd	194	ALA	CA-C-O	5.46	128.20	121.87
1	fg	35	GLU	O-C-N	-5.46	113.68	122.41
1	fu	2	ILE	O-C-N	-5.46	116.72	122.67
1	fC	196	PRO	CA-C-N	5.46	127.86	120.44
1	fC	196	PRO	C-N-CA	5.46	127.86	120.44
1	1z	136	LEU	N-CA-CB	5.46	118.07	109.94
1	fW	165	VAL	O-C-N	-5.46	116.56	121.91
1	fZ	149	SER	CA-C-N	5.46	129.36	121.18
1	fZ	149	SER	C-N-CA	5.46	129.36	121.18
1	g0	5	ASN	OD1-CG-ND2	5.46	128.06	122.60
1	j	62	HIS	N-CA-CB	5.46	117.94	110.57
1	1	58	THR	N-CA-C	-5.46	106.62	113.28
1	k	65	ALA	CB-CA-C	5.46	119.45	110.88
1	n	185	MET	N-CA-C	5.46	117.98	111.71
1	p	228	ALA	CA-C-N	5.46	128.59	120.90
1	p	228	ALA	C-N-CA	5.46	128.59	120.90
1	s	36	VAL	CA-C-O	5.46	126.62	120.95
1	s	77	ALA	N-CA-CB	-5.46	101.82	110.28
1	t	115	ILE	CA-C-N	5.46	126.16	119.99
1	t	115	ILE	C-N-CA	5.46	126.16	119.99
1	X	224	PRO	CB-CA-C	5.46	118.21	111.23
1	gf	179	GLN	O-C-N	-5.46	116.45	122.07
1	gU	178	SER	CA-C-N	5.46	127.90	120.54
1	gU	178	SER	C-N-CA	5.46	127.90	120.54
1	gY	120	HIS	ND1-CE1-NE2	5.46	113.86	108.40
1	hr	120	HIS	CE1-NE2-CD2	-5.46	103.55	109.00
1	hy	92	GLU	CA-C-N	5.46	125.77	119.93
1	hy	92	GLU	C-N-CA	5.46	125.77	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hH	140	LYS	N-CA-C	5.46	117.22	111.28
1	1L	153	ILE	N-CA-C	5.46	115.43	108.12
1	hP	28	GLU	CA-C-N	5.46	128.13	120.28
1	hP	28	GLU	C-N-CA	5.46	128.13	120.28
1	hQ	98	GLU	O-C-N	-5.46	115.05	121.32
1	1P	111	LEU	CA-C-N	5.46	127.90	120.54
1	1P	111	LEU	C-N-CA	5.46	127.90	120.54
1	iM	144	MET	N-CA-C	5.46	117.98	111.71
1	iO	26	VAL	CA-C-N	5.46	127.93	120.46
1	iO	26	VAL	C-N-CA	5.46	127.93	120.46
1	iW	141	ILE	CA-C-N	5.46	128.22	120.53
1	iW	141	ILE	C-N-CA	5.46	128.22	120.53
1	jm	62	HIS	ND1-CG-CD2	5.46	111.56	106.10
1	jI	84	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	jI	175	GLU	O-C-N	-5.46	116.10	122.81
1	jX	78	ALA	CA-C-O	5.46	126.32	120.70
1	k2	28	GLU	N-CA-C	5.46	116.91	111.07
1	ko	201	ILE	N-CA-C	5.46	115.66	110.42
1	kA	179	GLN	CA-C-N	5.46	127.85	120.38
1	kA	179	GLN	C-N-CA	5.46	127.85	120.38
1	kG	195	ASN	CA-CB-CG	5.46	118.06	112.60
1	kR	79	GLU	O-C-N	-5.46	115.56	122.27
1	l2	172	LEU	CA-C-O	5.46	126.20	120.42
1	l4	102	SER	CA-C-N	5.46	127.59	120.28
1	l4	102	SER	C-N-CA	5.46	127.59	120.28
1	l8	8	GLY	CA-C-O	5.46	129.63	122.65
1	l8	34	PRO	O-C-N	5.46	130.17	122.37
1	lc	172	LEU	CA-C-O	5.46	126.26	120.10
1	ls	141	ILE	N-CA-C	5.46	116.18	110.62
1	2c	39	MET	CA-C-N	5.46	127.53	120.44
1	2c	39	MET	C-N-CA	5.46	127.53	120.44
1	2h	166	ASP	CA-CB-CG	5.46	118.06	112.60
1	2r	192	GLN	N-CA-C	5.46	117.66	111.11
1	2B	91	ILE	CA-CB-CG1	5.46	119.67	110.40
1	2G	36	VAL	CA-CB-CG1	5.46	119.67	110.40
1	2S	186	THR	N-CA-C	5.46	117.31	111.36
1	32	42	ALA	O-C-N	-5.46	114.93	122.46
1	36	117	TRP	N-CA-C	5.46	117.98	111.71
1	3T	212	GLU	O-C-N	-5.46	116.42	122.09
1	48	135	ILE	CB-CA-C	5.46	119.50	112.14
1	48	163	ASP	CA-CB-CG	5.46	118.06	112.60
1	4F	177	ALA	N-CA-C	5.46	118.26	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4O	143	ARG	N-CA-C	5.46	117.23	111.28
1	4Z	49	PRO	CB-CA-C	5.46	122.13	112.64
1	55	226	HIS	N-CA-C	5.46	117.23	111.28
1	5k	213	GLU	O-C-N	-5.46	116.34	122.12
1	5q	71	GLU	CB-CA-C	-5.46	98.91	110.31
1	5N	21	ASN	N-CA-C	5.46	117.31	111.36
1	64	137	GLY	O-C-N	-5.46	116.95	122.19
1	6a	134	ILE	N-CA-C	5.46	115.66	110.42
1	6o	209	ALA	CA-C-O	5.46	127.19	120.92
1	6p	73	ILE	N-CA-C	5.46	116.18	110.62
1	6F	29	GLU	CA-C-O	-5.46	115.09	120.82
1	6F	99	PRO	N-CA-CB	5.46	108.37	103.19
1	6N	48	THR	N-CA-C	-5.46	102.08	110.32
1	6P	143	ARG	O-C-N	-5.46	115.93	122.15
1	7c	37	ILE	CB-CA-C	-5.46	108.57	114.35
1	7G	110	THR	O-C-N	-5.46	116.42	122.86
1	8p	204	ALA	N-CA-CB	-5.46	102.09	110.16
1	8q	212	GLU	CA-C-N	5.46	127.59	120.28
1	8q	212	GLU	C-N-CA	5.46	127.59	120.28
1	93	35	GLU	CA-C-N	5.46	127.64	120.60
1	93	35	GLU	C-N-CA	5.46	127.64	120.60
1	98	5	ASN	CA-CB-CG	5.46	118.06	112.60
1	9K	18	ARG	N-CA-C	5.46	117.31	111.36
1	aa	19	THR	CA-CB-OG1	-5.46	101.42	109.60
1	ak	70	LYS	CG-CD-CE	5.46	123.85	111.30
1	aV	173	ARG	NE-CZ-NH1	5.46	126.95	121.50
1	15	119	THR	N-CA-CB	5.46	118.56	110.49
1	bu	55	MET	CA-C-N	5.46	127.59	120.28
1	bu	55	MET	C-N-CA	5.46	127.59	120.28
1	bN	178	SER	N-CA-C	5.46	117.33	110.24
1	cg	93	PRO	N-CA-CB	5.46	108.98	103.25
1	cn	92	GLU	N-CA-C	5.46	117.61	110.08
1	cy	173	ARG	CA-C-O	5.46	126.27	120.10
1	cC	191	VAL	N-CA-C	5.46	116.19	110.62
1	cO	155	GLN	CA-C-O	5.46	127.72	121.28
1	cZ	169	TYR	CB-CG-CD1	-5.46	112.62	120.80
1	d0	124	ILE	CA-CB-CG2	-5.46	101.23	110.50
1	dz	73	ILE	N-CA-C	5.46	116.09	110.36
1	dD	66	MET	CG-SD-CE	-5.46	88.90	100.90
1	dS	87	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	eb	55	MET	CA-C-N	5.46	127.59	120.28
1	eb	55	MET	C-N-CA	5.46	127.59	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eh	89	GLY	CA-C-N	5.46	126.66	119.84
1	eh	89	GLY	C-N-CA	5.46	126.66	119.84
1	ej	82	ARG	CA-C-N	5.46	127.86	120.44
1	ej	82	ARG	C-N-CA	5.46	127.86	120.44
1	1s	131	LYS	CA-C-N	5.46	127.59	120.28
1	1s	131	LYS	C-N-CA	5.46	127.59	120.28
1	eM	180	GLU	CA-C-N	5.46	127.43	120.56
1	eM	180	GLU	C-N-CA	5.46	127.43	120.56
1	1t	21	ASN	N-CA-C	5.46	117.31	111.36
1	1w	56	LEU	N-CA-C	5.46	117.23	111.28
1	fw	33	SER	N-CA-C	-5.46	103.31	108.22
1	fM	73	ILE	CA-C-N	5.46	127.86	120.44
1	fM	73	ILE	C-N-CA	5.46	127.86	120.44
1	fV	1	PRO	CA-C-N	5.46	129.41	122.37
1	fV	1	PRO	C-N-CA	5.46	129.41	122.37
1	fZ	80	TRP	CA-C-N	5.46	127.53	120.44
1	fZ	80	TRP	C-N-CA	5.46	127.53	120.44
1	g0	5	ASN	CA-CB-CG	5.46	118.06	112.60
1	g1	130	TYR	N-CA-C	5.46	117.23	111.28
1	c	120	HIS	CG-CD2-NE2	5.46	112.66	107.20
1	l	203	LYS	CA-C-O	-5.46	113.70	119.97
1	t	159	GLU	CA-C-N	5.46	125.38	119.76
1	t	159	GLU	C-N-CA	5.46	125.38	119.76
1	R	223	GLY	CA-C-N	5.46	126.66	119.84
1	R	223	GLY	C-N-CA	5.46	126.66	119.84
1	g8	100	ARG	NE-CZ-NH1	-5.45	116.05	121.50
1	gf	99	PRO	N-CD-CG	5.45	111.38	103.20
1	gg	228	ALA	CA-C-O	5.45	128.04	121.66
1	gh	157	PRO	N-CD-CG	5.45	111.38	103.20
1	go	169	TYR	CA-C-O	-5.45	113.94	120.10
1	gH	165	VAL	CA-C-N	5.45	127.59	120.28
1	gH	165	VAL	C-N-CA	5.45	127.59	120.28
1	gI	170	LYS	CA-CB-CG	5.45	125.01	114.10
1	gL	87	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	gO	76	GLU	CA-C-O	-5.45	114.64	120.42
1	h4	84	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	hb	84	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	hb	226	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	1I	139	ASN	CA-CB-CG	5.45	118.05	112.60
1	1I	175	GLU	N-CA-C	5.45	117.58	110.43
1	hj	74	ASN	N-CA-CB	-5.45	102.10	110.01
1	hk	219	GLN	N-CA-CB	5.45	117.98	109.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hn	168	PHE	CB-CG-CD1	5.45	129.97	120.70
1	1K	61	GLY	O-C-N	-5.45	116.97	122.59
1	hR	96	MET	CA-C-O	5.45	127.22	121.33
1	hR	221	VAL	O-C-N	-5.45	115.74	122.88
1	1M	22	ALA	N-CA-C	5.45	117.66	111.11
1	hU	120	HIS	CA-CB-CG	5.45	119.25	113.80
1	hX	39	MET	N-CA-C	5.45	117.22	111.28
1	i3	150	ILE	CA-C-O	5.45	126.58	120.64
1	ii	35	GLU	CB-CG-CD	-5.45	103.33	112.60
1	il	83	LEU	N-CA-C	5.45	117.03	111.14
1	in	123	PRO	CA-C-N	-5.45	118.89	122.60
1	in	123	PRO	C-N-CA	-5.45	118.89	122.60
1	is	123	PRO	CA-C-O	-5.45	115.02	121.67
1	ix	148	THR	CA-CB-OG1	5.45	117.78	109.60
1	1Q	150	ILE	CA-CB-CG2	5.45	119.77	110.50
1	iz	183	ASN	CA-CB-CG	-5.45	107.15	112.60
1	iG	68	MET	N-CA-C	5.45	117.98	111.71
1	iK	33	SER	O-C-N	-5.45	116.75	121.71
1	iK	214	MET	CG-SD-CE	-5.45	88.90	100.90
1	iO	206	GLY	CA-C-N	5.45	125.45	119.89
1	iO	206	GLY	C-N-CA	5.45	125.45	119.89
1	iP	180	GLU	CA-C-N	5.45	127.54	120.56
1	iP	180	GLU	C-N-CA	5.45	127.54	120.56
1	iR	189	LEU	CA-C-O	-5.45	115.09	120.82
1	iV	126	VAL	N-CA-C	5.45	117.87	111.05
1	iX	182	LYS	CA-C-N	5.45	127.53	120.44
1	iX	182	LYS	C-N-CA	5.45	127.53	120.44
1	ji	169	TYR	CB-CG-CD1	5.45	128.98	120.80
1	jl	182	LYS	CA-C-O	5.45	126.26	120.10
1	jD	18	ARG	O-C-N	-5.45	116.34	122.12
1	jN	12	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	jS	48	THR	CA-CB-OG1	5.45	117.78	109.60
1	1Z	215	MET	N-CA-C	5.45	117.22	111.28
1	k3	110	THR	CA-C-N	5.45	127.85	120.38
1	k3	110	THR	C-N-CA	5.45	127.85	120.38
1	kg	45	GLU	N-CA-C	5.45	118.08	109.96
1	kh	138	LEU	N-CA-C	5.45	118.15	111.82
1	21	66	MET	N-CA-C	5.45	117.22	111.28
1	21	215	MET	CA-C-O	5.45	125.37	119.15
1	kz	71	GLU	N-CA-C	5.45	119.19	112.54
1	kK	183	ASN	N-CA-C	5.45	116.91	111.07
1	kP	32	PHE	CA-CB-CG	-5.45	108.35	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	la	93	PRO	N-CA-C	5.45	120.15	111.26
1	lk	80	TRP	CE2-CD2-CE3	5.45	124.25	118.80
1	lo	21	ASN	CB-CA-C	5.45	119.44	110.88
1	lC	226	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	2b	199	LYS	CA-C-O	5.45	126.33	120.55
1	2f	184	TRP	O-C-N	-5.45	116.45	122.07
1	2m	29	GLU	CA-C-O	-5.45	114.64	120.42
1	2r	175	GLU	CA-C-N	5.45	129.88	122.19
1	2r	175	GLU	C-N-CA	5.45	129.88	122.19
1	2C	210	THR	CA-C-O	5.45	127.33	121.55
1	2I	33	SER	CA-C-O	-5.45	114.30	120.46
1	2M	84	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	3k	226	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	3p	50	GLN	CA-C-N	5.45	127.53	120.44
1	3p	50	GLN	C-N-CA	5.45	127.53	120.44
1	3p	150	ILE	O-C-N	-5.45	114.89	122.31
1	3t	20	LEU	CA-C-N	5.45	127.53	120.44
1	3t	20	LEU	C-N-CA	5.45	127.53	120.44
1	3z	74	ASN	O-C-N	-5.45	116.34	122.12
1	3K	134	ILE	N-CA-C	5.45	115.66	110.53
1	3L	187	GLU	O-C-N	-5.45	115.14	122.23
1	4a	105	ALA	CA-C-N	5.45	130.63	120.87
1	4a	105	ALA	C-N-CA	5.45	130.63	120.87
1	4c	169	TYR	N-CA-CB	5.45	118.14	110.12
1	4d	163	ASP	CA-CB-CG	-5.45	107.15	112.60
1	4l	154	ARG	O-C-N	-5.45	116.10	123.19
1	4p	120	HIS	CA-CB-CG	-5.45	108.35	113.80
1	4q	143	ARG	N-CA-C	5.45	117.65	111.11
1	4x	62	HIS	CA-CB-CG	5.45	119.25	113.80
1	4M	69	LEU	CB-CA-C	5.45	119.84	110.79
1	4R	165	VAL	O-C-N	-5.45	116.57	121.91
1	4U	131	LYS	N-CA-C	5.45	117.22	111.28
1	5i	89	GLY	CA-C-N	5.45	126.66	119.84
1	5i	89	GLY	C-N-CA	5.45	126.66	119.84
1	5m	223	GLY	CA-C-O	-5.45	113.72	121.52
1	5p	183	ASN	CA-C-O	-5.45	115.09	120.82
1	5z	133	TRP	CA-C-N	5.45	127.43	120.56
1	5z	133	TRP	C-N-CA	5.45	127.43	120.56
1	5C	140	LYS	O-C-N	-5.45	116.34	122.12
1	5D	98	GLU	CA-C-N	5.45	125.38	119.76
1	5D	98	GLU	C-N-CA	5.45	125.38	119.76
1	5I	126	VAL	CB-CA-C	-5.45	104.69	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5I	162	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	5O	55	MET	CG-SD-CE	-5.45	88.90	100.90
1	5P	84	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	5Z	109	SER	CA-C-N	5.45	128.45	120.71
1	5Z	109	SER	C-N-CA	5.45	128.45	120.71
1	63	54	THR	O-C-N	-5.45	116.34	122.12
1	67	164	TYR	N-CA-C	5.45	117.22	111.28
1	6C	168	PHE	CB-CA-C	5.45	119.44	110.88
1	6E	165	VAL	CA-CB-CG1	5.45	119.67	110.40
1	6R	58	THR	CA-C-O	5.45	126.07	119.31
1	6S	32	PHE	CA-C-O	5.45	126.32	120.38
1	6Y	158	LYS	CA-C-N	5.45	131.25	121.76
1	6Y	158	LYS	C-N-CA	5.45	131.25	121.76
1	7c	117	TRP	N-CA-CB	5.45	118.24	110.06
1	7r	34	PRO	O-C-N	5.45	128.51	122.24
1	7v	63	GLN	CA-C-N	5.45	127.86	120.44
1	7v	63	GLN	C-N-CA	5.45	127.86	120.44
1	7z	100	ARG	NH1-CZ-NH2	5.45	126.39	119.30
1	7E	2	ILE	N-CA-CB	5.45	121.09	110.95
1	7F	162	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	7G	117	TRP	CA-CB-CG	5.45	123.96	113.60
1	7H	170	LYS	N-CA-C	5.45	117.22	111.28
1	7O	173	ARG	NE-CZ-NH2	5.45	124.11	119.20
1	7S	137	GLY	CA-C-N	5.45	127.86	120.44
1	7S	137	GLY	C-N-CA	5.45	127.86	120.44
1	7V	228	ALA	CB-CA-C	-5.45	101.25	110.19
1	80	187	GLU	N-CA-C	5.45	118.05	111.40
1	89	202	LEU	N-CA-C	5.45	117.22	111.28
1	8i	15	ILE	CA-C-O	5.45	127.46	121.13
1	8p	216	THR	CA-CB-OG1	5.45	117.78	109.60
1	8x	36	VAL	O-C-N	-5.45	116.58	121.87
1	8E	124	ILE	O-C-N	-5.45	114.88	121.10
1	8G	74	ASN	OD1-CG-ND2	-5.45	117.15	122.60
1	8J	87	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	97	119	THR	N-CA-CB	5.45	118.38	110.47
1	9d	216	THR	N-CA-CB	5.45	118.14	110.12
1	9l	53	ASN	CA-C-N	5.45	127.59	120.28
1	9l	53	ASN	C-N-CA	5.45	127.59	120.28
1	9o	82	ARG	NH1-CZ-NH2	-5.45	112.21	119.30
1	9K	169	TYR	CA-CB-CG	-5.45	104.08	113.90
1	a6	149	SER	CA-C-O	5.45	127.50	121.56
1	ac	66	MET	O-C-N	-5.45	115.56	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aL	120	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	b5	208	ALA	CA-C-O	5.45	126.22	119.79
1	bb	134	ILE	N-CA-C	5.45	116.18	110.62
1	br	144	MET	N-CA-C	5.45	117.67	111.02
1	bE	197	ASP	N-CA-C	5.45	117.22	111.28
1	bL	148	THR	O-C-N	-5.45	116.53	123.24
1	bO	72	THR	N-CA-CB	5.45	118.67	109.78
1	bR	108	THR	N-CA-C	-5.45	105.94	112.59
1	bY	139	ASN	N-CA-C	5.45	117.66	111.11
1	c5	130	TYR	O-C-N	-5.45	115.93	122.15
1	1c	20	LEU	N-CA-CB	5.45	117.98	110.07
1	1c	80	TRP	O-C-N	-5.45	115.34	122.59
1	ca	75	GLU	N-CA-CB	5.45	118.07	109.94
1	ck	120	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	cs	104	ILE	O-C-N	5.45	127.16	121.87
1	1f	68	MET	N-CA-C	5.45	118.15	111.82
1	cA	157	PRO	N-CA-CB	5.45	108.38	103.20
1	cB	132	ARG	CD-NE-CZ	5.45	132.03	124.40
1	cC	117	TRP	CA-C-N	5.45	129.95	120.68
1	cC	117	TRP	C-N-CA	5.45	129.95	120.68
1	cD	181	VAL	CA-C-N	5.45	127.59	120.28
1	cD	181	VAL	C-N-CA	5.45	127.59	120.28
1	cF	50	GLN	CA-C-N	5.45	127.53	120.44
1	cF	50	GLN	C-N-CA	5.45	127.53	120.44
1	1h	69	LEU	O-C-N	-5.45	116.34	122.12
1	d3	10	MET	N-CA-CB	5.45	118.06	109.83
1	dk	100	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	dx	84	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	dy	12	HIS	CA-C-N	5.45	130.60	122.86
1	dy	12	HIS	C-N-CA	5.45	130.60	122.86
1	dV	82	ARG	CB-CG-CD	5.45	123.84	111.30
1	dZ	200	THR	CA-C-O	5.45	126.33	120.55
1	e3	97	ARG	CA-C-O	5.45	127.33	121.55
1	e4	148	THR	CA-CB-OG1	5.45	117.78	109.60
1	ed	213	GLU	N-CA-C	5.45	117.22	111.28
1	ee	216	THR	CA-C-O	5.45	125.14	119.14
1	el	62	HIS	ND1-CG-CD2	5.45	111.55	106.10
1	el	208	ALA	CA-C-O	5.45	127.18	120.15
1	em	148	THR	CA-C-N	5.45	128.99	120.75
1	em	148	THR	C-N-CA	5.45	128.99	120.75
1	en	58	THR	OG1-CB-CG2	-5.45	98.39	109.30
1	eH	44	SER	CA-C-N	5.45	127.85	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eH	44	SER	C-N-CA	5.45	127.85	120.38
1	eK	91	ILE	CB-CA-C	5.45	118.67	110.98
1	eN	62	HIS	CB-CG-ND1	-5.45	114.52	122.70
1	f7	217	ALA	N-CA-C	5.45	117.73	110.53
1	fb	161	PHE	CA-C-N	5.45	127.59	120.28
1	fb	161	PHE	C-N-CA	5.45	127.59	120.28
1	fl	113	GLU	CA-C-O	5.45	126.55	120.82
1	fp	67	GLN	CA-C-O	5.45	126.20	120.42
1	fs	166	ASP	CA-C-O	5.45	126.73	121.00
1	fC	16	SER	O-C-N	-5.45	116.11	121.18
1	1y	153	ILE	N-CA-CB	-5.45	105.62	111.46
1	fR	49	PRO	CB-CA-C	5.45	120.56	111.56
1	fU	75	GLU	O-C-N	-5.45	116.45	122.07
1	f	93	PRO	O-C-N	-5.45	115.97	122.89
1	l	64	ALA	N-CA-C	5.45	117.22	111.28
1	r	183	ASN	CB-CG-ND2	-5.45	108.22	116.40
1	s	132	ARG	CA-C-N	5.45	128.03	120.29
1	s	132	ARG	C-N-CA	5.45	128.03	120.29
1	A	126	VAL	N-CA-CB	5.45	118.76	110.58
1	L	94	GLY	N-CA-C	5.45	117.63	111.85
1	R	202	LEU	CA-C-O	5.45	126.20	120.42
1	V	125	PRO	CB-CA-C	5.45	120.77	112.97
1	gB	50	GLN	N-CA-C	5.45	117.22	111.28
1	gL	219	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	gV	55	MET	CA-C-O	5.45	126.54	120.82
1	h5	120	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	hi	211	LEU	CA-C-N	5.45	127.90	120.54
1	hi	211	LEU	C-N-CA	5.45	127.90	120.54
1	hq	62	HIS	ND1-CG-CD2	5.45	111.55	106.10
1	1K	20	LEU	CA-C-N	5.45	127.58	120.28
1	1K	20	LEU	C-N-CA	5.45	127.58	120.28
1	ij	162	ARG	CA-C-O	5.45	128.31	120.51
1	iG	97	ARG	NH1-CZ-NH2	5.45	126.39	119.30
1	iG	142	VAL	N-CA-CB	5.45	116.93	110.55
1	j4	196	PRO	N-CA-C	5.45	121.87	113.75
1	jb	40	PHE	N-CA-C	5.45	117.22	111.28
1	jx	162	ARG	CD-NE-CZ	5.45	132.03	124.40
1	jH	5	ASN	N-CA-CB	5.45	121.78	111.15
1	jH	177	ALA	N-CA-C	5.45	122.41	110.80
1	jY	27	VAL	CA-C-N	5.45	127.53	120.44
1	jY	27	VAL	C-N-CA	5.45	127.53	120.44
1	k2	51	ASP	N-CA-CB	5.45	117.97	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	13	GLN	CA-C-N	5.45	128.45	120.71
1	kF	13	GLN	C-N-CA	5.45	128.45	120.71
1	kJ	182	LYS	N-CA-C	5.45	116.90	111.07
1	kU	46	GLY	CA-C-O	5.45	126.03	119.82
1	kV	177	ALA	CA-C-N	5.45	128.98	120.75
1	kV	177	ALA	C-N-CA	5.45	128.98	120.75
1	l2	191	VAL	O-C-N	-5.45	116.23	121.90
1	lc	21	ASN	OD1-CG-ND2	-5.45	117.15	122.60
1	lF	137	GLY	N-CA-C	5.45	122.04	113.86
1	2j	97	ARG	NE-CZ-NH2	5.45	124.11	119.20
1	2B	21	ASN	N-CA-CB	-5.45	102.11	110.01
1	2G	110	THR	CA-C-N	5.45	127.59	120.28
1	2G	110	THR	C-N-CA	5.45	127.59	120.28
1	3f	199	LYS	N-CA-C	5.45	118.73	111.75
1	3u	84	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	3A	204	ALA	O-C-N	-5.45	116.45	122.07
1	3Q	201	ILE	N-CA-C	-5.45	105.21	110.72
1	3Y	159	GLU	CA-C-N	5.45	125.46	119.90
1	3Y	159	GLU	C-N-CA	5.45	125.46	119.90
1	48	73	ILE	CA-C-N	5.45	127.59	120.28
1	48	73	ILE	C-N-CA	5.45	127.59	120.28
1	4d	90	PRO	CA-C-N	5.45	128.25	121.71
1	4d	90	PRO	C-N-CA	5.45	128.25	121.71
1	4r	93	PRO	N-CA-CB	5.45	108.97	103.25
1	4B	27	VAL	N-CA-CB	5.45	117.28	110.47
1	4J	17	PRO	N-CA-C	-5.45	106.29	113.65
1	4R	17	PRO	CA-C-N	5.45	128.03	120.29
1	4R	17	PRO	C-N-CA	5.45	128.03	120.29
1	5b	136	LEU	CA-C-N	5.45	125.99	119.94
1	5b	136	LEU	C-N-CA	5.45	125.99	119.94
1	5b	223	GLY	N-CA-C	5.45	118.54	112.00
1	5G	71	GLU	N-CA-C	5.45	117.65	111.11
1	5K	183	ASN	N-CA-C	5.45	117.22	111.28
1	5W	105	ALA	CA-C-O	5.45	126.09	119.49
1	6q	69	LEU	N-CA-CB	-5.45	102.11	110.01
1	6Q	4	GLN	O-C-N	-5.45	117.37	123.48
1	6S	135	ILE	CA-C-N	5.45	127.53	120.44
1	6S	135	ILE	C-N-CA	5.45	127.53	120.44
1	7m	46	GLY	CA-C-N	5.45	128.51	120.82
1	7m	46	GLY	C-N-CA	5.45	128.51	120.82
1	7H	168	PHE	O-C-N	-5.45	116.45	122.07
1	7O	40	PHE	CA-CB-CG	-5.45	108.35	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7P	198	CYS	CA-C-O	5.45	126.22	119.79
1	8e	193	ASN	CB-CG-OD1	5.45	131.70	120.80
1	8T	74	ASN	N-CA-C	5.45	117.22	111.28
1	8X	115	ILE	N-CA-C	5.45	116.18	110.62
1	99	10	MET	O-C-N	-5.45	116.58	123.12
1	9a	24	VAL	CA-CB-CG2	-5.45	101.13	110.40
1	9u	77	ALA	CA-C-N	5.45	127.59	120.28
1	9u	77	ALA	C-N-CA	5.45	127.59	120.28
1	9z	97	ARG	NH1-CZ-NH2	-5.45	112.21	119.30
1	9A	95	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	9O	18	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	aI	166	ASP	O-C-N	-5.45	116.45	122.07
1	aW	203	LYS	CA-C-O	5.45	126.24	119.97
1	bp	74	ASN	CA-C-N	5.45	127.53	120.44
1	bp	74	ASN	C-N-CA	5.45	127.53	120.44
1	bG	166	ASP	N-CA-C	5.45	117.22	111.28
1	bH	80	TRP	O-C-N	-5.45	116.45	122.07
1	bM	213	GLU	CA-C-N	5.45	128.60	120.31
1	bM	213	GLU	C-N-CA	5.45	128.60	120.31
1	cl	74	ASN	CA-C-N	5.45	127.85	120.65
1	cl	74	ASN	C-N-CA	5.45	127.85	120.65
1	cB	173	ARG	NE-CZ-NH1	-5.45	116.05	121.50
1	cJ	80	TRP	CB-CG-CD1	5.45	135.08	126.90
1	cL	120	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	d0	114	GLN	N-CA-CB	5.45	117.92	110.01
1	dk	133	TRP	CD2-CE2-CZ2	5.45	127.85	122.40
1	ds	40	PHE	CA-CB-CG	-5.45	108.35	113.80
1	dP	187	GLU	CA-C-N	5.45	128.03	120.29
1	dP	187	GLU	C-N-CA	5.45	128.03	120.29
1	dT	171	THR	CA-CB-OG1	-5.45	101.42	109.60
1	e5	195	ASN	CA-CB-CG	-5.45	107.15	112.60
1	e9	55	MET	CA-C-N	5.45	127.53	120.44
1	e9	55	MET	C-N-CA	5.45	127.53	120.44
1	ej	160	PRO	N-CA-CB	-5.45	97.53	103.25
1	ev	159	GLU	CA-C-O	-5.45	114.50	120.17
1	eE	140	LYS	N-CA-C	5.45	116.90	111.07
1	1s	183	ASN	O-C-N	-5.45	116.45	122.07
1	f2	200	THR	N-CA-C	5.45	117.22	111.28
1	fo	219	GLN	N-CA-C	5.45	122.41	110.80
1	fq	9	GLN	N-CA-CB	5.45	119.70	110.49
1	fT	154	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	a	26	VAL	O-C-N	5.45	127.16	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j	120	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	n	84	HIS	CA-C-O	-5.45	115.90	120.26
1	s	182	LYS	CA-C-O	-5.45	114.77	120.55
1	z	139	ASN	CA-CB-CG	-5.45	107.15	112.60
1	gb	11	VAL	O-C-N	-5.45	117.00	123.05
1	gc	181	VAL	CA-CB-CG2	-5.45	101.13	110.40
1	gf	15	ILE	N-CA-C	5.45	117.30	109.51
1	gu	34	PRO	N-CA-CB	5.45	109.30	103.52
1	gB	74	ASN	N-CA-C	5.45	117.22	111.28
1	1E	175	GLU	O-C-N	-5.45	116.58	123.01
1	gP	100	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	gR	98	GLU	CA-C-N	5.45	126.65	119.84
1	gR	98	GLU	C-N-CA	5.45	126.65	119.84
1	gV	24	VAL	CA-C-N	5.45	127.90	120.54
1	gV	24	VAL	C-N-CA	5.45	127.90	120.54
1	1G	171	THR	CA-CB-OG1	5.45	117.78	109.60
1	h8	70	LYS	N-CA-C	5.45	117.30	111.36
1	h9	23	TRP	N-CA-C	5.45	117.67	111.02
1	hd	18	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	hr	48	THR	CA-C-N	5.45	126.65	119.84
1	hr	48	THR	C-N-CA	5.45	126.65	119.84
1	hr	229	ARG	N-CA-C	5.45	117.98	110.35
1	hs	21	ASN	CB-CA-C	-5.45	102.32	110.88
1	hy	98	GLU	CB-CA-C	5.45	117.98	109.42
1	hG	112	GLN	CB-CA-C	-5.45	101.74	110.79
1	hG	161	PHE	CA-C-O	-5.45	115.10	120.82
1	hI	177	ALA	N-CA-C	5.45	117.36	110.33
1	hS	132	ARG	NE-CZ-NH2	-5.45	114.30	119.20
1	hY	95	GLN	N-CA-C	5.45	116.90	111.07
1	i2	191	VAL	N-CA-C	5.45	115.65	110.42
1	1N	134	ILE	N-CA-CB	5.45	116.56	110.51
1	i5	163	ASP	CA-CB-CG	-5.45	107.15	112.60
1	i7	142	VAL	CA-C-N	5.45	127.53	120.44
1	i7	142	VAL	C-N-CA	5.45	127.53	120.44
1	ic	210	THR	CA-CB-OG1	5.45	117.78	109.60
1	1O	228	ALA	N-CA-CB	-5.45	102.42	110.49
1	ij	73	ILE	CA-C-O	-5.45	115.39	121.17
1	ij	204	ALA	CA-C-O	-5.45	114.77	120.55
1	io	133	TRP	CB-CG-CD1	5.45	135.07	126.90
1	is	98	GLU	N-CA-C	5.45	116.69	109.93
1	iu	101	GLY	CA-C-N	5.45	128.03	120.29
1	iu	101	GLY	C-N-CA	5.45	128.03	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iu	162	ARG	CA-C-N	5.45	129.95	120.68
1	iu	162	ARG	C-N-CA	5.45	129.95	120.68
1	iA	76	GLU	CA-C-O	5.45	126.26	120.10
1	iH	186	THR	OG1-CB-CG2	-5.45	98.40	109.30
1	iS	53	ASN	N-CA-C	5.45	117.98	111.71
1	jb	133	TRP	CB-CG-CD1	5.45	135.08	126.90
1	jn	129	ILE	O-C-N	5.45	127.25	121.91
1	jw	22	ALA	O-C-N	-5.45	116.34	122.12
1	jz	129	ILE	CA-C-O	-5.45	115.60	121.27
1	jB	19	THR	CA-C-N	5.45	127.53	120.44
1	jB	19	THR	C-N-CA	5.45	127.53	120.44
1	jE	67	GLN	CB-CG-CD	5.45	121.86	112.60
1	jJ	112	GLN	O-C-N	-5.45	116.34	122.12
1	jM	153	ILE	N-CA-CB	5.45	118.73	111.64
1	jP	72	THR	CA-C-N	5.45	127.43	120.56
1	jP	72	THR	C-N-CA	5.45	127.43	120.56
1	k5	193	ASN	O-C-N	-5.45	114.85	122.37
1	k7	2	ILE	N-CA-C	5.45	115.80	108.17
1	ka	21	ASN	CB-CG-ND2	-5.45	108.22	116.40
1	ke	194	ALA	N-CA-CB	5.45	118.15	110.36
1	kj	208	ALA	CA-C-O	5.45	127.18	120.15
1	21	42	ALA	O-C-N	-5.45	116.34	122.12
1	kw	207	PRO	N-CA-C	-5.45	107.66	114.20
1	kC	83	LEU	N-CA-C	5.45	117.93	111.33
1	kG	156	GLY	CA-C-O	-5.45	113.73	121.52
1	kI	113	GLU	CB-CG-CD	-5.45	103.33	112.60
1	kS	129	ILE	CA-C-O	5.45	126.95	121.17
1	kS	218	CYS	N-CA-CB	5.45	119.70	110.49
1	l2	33	SER	CA-C-O	5.45	125.05	119.76
1	26	201	ILE	N-CA-C	5.45	116.18	110.62
1	lb	26	VAL	N-CA-CB	5.45	116.34	110.62
1	lf	40	PHE	CA-CB-CG	-5.45	108.35	113.80
1	lg	83	LEU	N-CA-C	5.45	117.98	111.71
1	ln	131	LYS	CA-C-O	5.45	126.54	120.82
1	lq	36	VAL	CA-C-O	5.45	126.14	120.25
1	lq	66	MET	CG-SD-CE	-5.45	88.91	100.90
1	28	214	MET	N-CA-C	5.45	118.73	111.75
1	lt	68	MET	N-CA-C	5.45	116.90	111.07
1	lt	162	ARG	N-CA-C	5.45	117.22	111.28
1	lB	65	ALA	N-CA-C	5.45	117.30	111.36
1	lE	63	GLN	CA-C-O	-5.45	114.77	120.55
1	lI	96	MET	CG-SD-CE	-5.45	88.91	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2c	27	VAL	N-CA-C	-5.45	106.38	111.45
1	2k	29	GLU	O-C-N	-5.45	116.20	122.09
1	2t	204	ALA	O-C-N	-5.45	115.94	122.15
1	2E	198	CYS	O-C-N	-5.45	116.34	122.12
1	2H	230	VAL	O-C-N	-5.45	116.98	123.03
1	2S	26	VAL	CB-CA-C	-5.45	104.88	112.02
1	34	179	GLN	CA-C-N	5.45	127.58	120.28
1	34	179	GLN	C-N-CA	5.45	127.58	120.28
1	36	113	GLU	CA-C-N	5.45	127.53	120.44
1	36	113	GLU	C-N-CA	5.45	127.53	120.44
1	36	131	LYS	CA-CB-CG	5.45	125.00	114.10
1	3f	134	ILE	N-CA-CB	-5.45	104.17	110.55
1	3z	211	LEU	CA-C-N	5.45	128.37	120.79
1	3z	211	LEU	C-N-CA	5.45	128.37	120.79
1	3A	72	THR	O-C-N	5.45	127.68	122.07
1	3J	120	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	3X	191	VAL	CB-CA-C	5.45	119.50	112.14
1	47	41	SER	N-CA-C	5.45	117.98	111.71
1	47	134	ILE	N-CA-CB	5.45	116.93	110.55
1	4a	15	ILE	CA-C-O	5.45	127.45	121.13
1	4p	187	GLU	CA-C-O	5.45	125.05	119.05
1	4t	148	THR	OG1-CB-CG2	-5.45	98.40	109.30
1	4x	154	ARG	CD-NE-CZ	5.45	132.03	124.40
1	4z	143	ARG	N-CA-C	5.45	117.22	111.28
1	4N	88	ALA	O-C-N	-5.45	116.87	123.03
1	4T	154	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	4X	183	ASN	N-CA-C	-5.45	105.24	111.07
1	53	140	LYS	O-C-N	-5.45	116.42	122.09
1	5b	84	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	5e	166	ASP	CA-CB-CG	5.45	118.05	112.60
1	5f	73	ILE	N-CA-CB	5.45	116.93	110.55
1	5g	39	MET	O-C-N	-5.45	116.42	122.09
1	5i	230	VAL	CA-C-O	5.45	125.78	120.27
1	5k	50	GLN	N-CA-C	5.45	117.22	111.28
1	5n	98	GLU	N-CA-CB	5.45	118.54	109.98
1	5n	197	ASP	CA-CB-CG	5.45	118.05	112.60
1	5y	39	MET	CG-SD-CE	-5.45	88.91	100.90
1	5z	192	GLN	N-CA-C	5.45	117.22	111.28
1	5B	162	ARG	CA-C-N	5.45	127.53	120.44
1	5B	162	ARG	C-N-CA	5.45	127.53	120.44
1	5N	139	ASN	CA-CB-CG	5.45	118.05	112.60
1	5Q	158	LYS	CB-CA-C	-5.45	100.96	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	67	178	SER	CA-C-N	5.45	128.03	120.29
1	67	178	SER	C-N-CA	5.45	128.03	120.29
1	6c	15	ILE	CA-C-O	5.45	127.36	121.36
1	6e	59	VAL	CA-C-N	5.45	132.09	121.41
1	6e	59	VAL	C-N-CA	5.45	132.09	121.41
1	6h	55	MET	N-CA-C	5.45	117.22	111.28
1	6o	87	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	6p	96	MET	CG-SD-CE	-5.45	88.91	100.90
1	6r	32	PHE	CA-CB-CG	-5.45	108.35	113.80
1	6x	72	THR	N-CA-CB	5.45	118.99	109.72
1	6z	24	VAL	N-CA-C	5.45	115.65	110.42
1	6E	18	ARG	CD-NE-CZ	5.45	132.03	124.40
1	6E	139	ASN	CA-CB-CG	-5.45	107.15	112.60
1	6G	51	ASP	CA-CB-CG	5.45	118.05	112.60
1	6R	151	LEU	O-C-N	-5.45	115.19	122.49
1	76	135	ILE	CA-C-O	-5.45	114.58	120.47
1	7d	51	ASP	CA-CB-CG	5.45	118.05	112.60
1	7i	80	TRP	CB-CG-CD2	-5.45	119.17	126.80
1	7k	192	GLN	N-CA-C	5.45	118.14	111.82
1	7l	12	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	7t	108	THR	N-CA-CB	5.45	118.66	110.65
1	7Q	19	THR	OG1-CB-CG2	-5.45	98.40	109.30
1	81	53	ASN	O-C-N	-5.45	116.34	122.12
1	89	50	GLN	N-CA-C	5.45	117.22	111.28
1	8a	140	LYS	O-C-N	-5.45	116.46	122.07
1	8g	186	THR	O-C-N	5.45	129.74	122.43
1	8i	176	GLN	CA-C-N	5.45	128.83	120.82
1	8i	176	GLN	C-N-CA	5.45	128.83	120.82
1	8s	181	VAL	CB-CA-C	-5.45	104.78	112.14
1	8t	190	LEU	N-CA-C	5.45	117.67	111.02
1	8H	142	VAL	CA-CB-CG1	5.45	119.67	110.40
1	8T	212	GLU	O-C-N	-5.45	116.34	122.12
1	8W	130	TYR	CB-CG-CD2	-5.45	112.62	120.80
1	9g	63	GLN	N-CA-C	5.45	117.22	111.28
1	9q	19	THR	N-CA-C	5.45	117.03	111.14
1	9s	82	ARG	CG-CD-NE	-5.45	100.01	112.00
1	9B	171	THR	N-CA-C	-5.45	106.47	113.23
1	9E	13	GLN	CB-CG-CD	5.45	121.86	112.60
1	9O	82	ARG	CA-C-N	5.45	127.58	120.28
1	9O	82	ARG	C-N-CA	5.45	127.58	120.28
1	9T	113	GLU	O-C-N	-5.45	115.94	122.15
1	a1	124	ILE	O-C-N	-5.45	114.89	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	16	SER	N-CA-CB	5.45	117.83	110.14
1	at	31	ALA	CB-CA-C	-5.45	108.70	115.89
1	az	59	VAL	O-C-N	-5.45	116.74	122.95
1	aN	100	ARG	CB-CG-CD	5.45	123.83	111.30
1	aW	132	ARG	NE-CZ-NH2	5.45	124.11	119.20
1	aZ	195	ASN	CA-CB-CG	5.45	118.05	112.60
1	bg	80	TRP	CD2-CE3-CZ3	-5.45	111.52	118.60
1	bj	76	GLU	CA-C-N	5.45	127.53	120.44
1	bj	76	GLU	C-N-CA	5.45	127.53	120.44
1	bl	207	PRO	CB-CA-C	-5.45	102.81	111.04
1	bm	128	GLU	CA-C-N	5.45	127.43	120.56
1	bm	128	GLU	C-N-CA	5.45	127.43	120.56
1	18	112	GLN	N-CA-CB	5.45	117.91	110.01
1	bs	193	ASN	N-CA-CB	5.45	118.37	110.47
1	bt	121	ASN	N-CA-CB	-5.45	100.13	110.49
1	19	38	PRO	O-C-N	-5.45	115.69	122.23
1	bJ	220	GLY	CA-C-N	5.45	127.93	120.35
1	bJ	220	GLY	C-N-CA	5.45	127.93	120.35
1	bQ	105	ALA	CA-C-N	5.45	130.96	120.66
1	bQ	105	ALA	C-N-CA	5.45	130.96	120.66
1	bS	230	VAL	CA-C-O	5.45	127.59	120.78
1	bW	53	ASN	CA-C-N	5.45	127.90	120.54
1	bW	53	ASN	C-N-CA	5.45	127.90	120.54
1	bZ	33	SER	O-C-N	-5.45	114.96	121.39
1	c6	18	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	ce	174	ALA	O-C-N	-5.45	115.05	122.19
1	1d	92	GLU	CB-CG-CD	5.45	121.86	112.60
1	1e	4	GLN	O-C-N	-5.45	117.00	123.11
1	cD	207	PRO	CA-C-O	-5.45	111.37	119.00
1	cG	141	ILE	CA-C-N	5.45	127.63	120.60
1	cG	141	ILE	C-N-CA	5.45	127.63	120.60
1	cH	85	PRO	N-CD-CG	5.45	111.38	103.20
1	cN	121	ASN	CA-C-O	-5.45	115.34	119.59
1	d8	207	PRO	N-CA-CB	5.45	108.82	102.88
1	db	13	GLN	O-C-N	-5.45	117.17	123.33
1	dc	114	GLN	CB-CG-CD	-5.45	103.34	112.60
1	dg	145	TYR	CA-C-O	5.45	126.03	119.43
1	dn	81	ASP	CA-CB-CG	-5.45	107.15	112.60
1	dn	104	ILE	CA-CB-CG1	5.45	119.66	110.40
1	dy	218	CYS	CA-C-N	5.45	128.13	120.28
1	dy	218	CYS	C-N-CA	5.45	128.13	120.28
1	dC	76	GLU	CA-C-O	-5.45	114.74	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e7	82	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	1q	41	SER	CA-C-N	5.45	127.58	120.28
1	1q	41	SER	C-N-CA	5.45	127.58	120.28
1	ep	82	ARG	N-CA-C	5.45	119.93	113.28
1	et	167	ARG	N-CA-C	-5.45	106.47	113.23
1	ew	195	ASN	CA-C-O	-5.45	112.69	120.16
1	eC	59	VAL	CA-C-O	5.45	127.94	121.02
1	eM	10	MET	CA-C-N	5.45	128.95	120.34
1	eM	10	MET	C-N-CA	5.45	128.95	120.34
1	eM	176	GLN	CB-CA-C	-5.45	100.17	109.65
1	eN	74	ASN	CA-CB-CG	-5.45	107.15	112.60
1	eP	155	GLN	N-CA-C	5.45	118.18	110.50
1	eT	84	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	eW	23	TRP	O-C-N	-5.45	116.34	122.12
1	eW	166	ASP	CA-C-N	5.45	127.58	120.28
1	eW	166	ASP	C-N-CA	5.45	127.58	120.28
1	eZ	33	SER	CA-C-N	5.45	125.07	119.56
1	eZ	33	SER	C-N-CA	5.45	125.07	119.56
1	eZ	171	THR	CA-CB-OG1	5.45	117.78	109.60
1	f0	193	ASN	CA-C-N	5.45	129.50	120.94
1	f0	193	ASN	C-N-CA	5.45	129.50	120.94
1	fu	14	ALA	O-C-N	-5.45	116.11	122.81
1	fD	88	ALA	O-C-N	-5.45	115.84	122.22
1	fF	21	ASN	CA-CB-CG	5.45	118.05	112.60
1	fH	219	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	fJ	97	ARG	N-CA-C	5.45	118.19	110.50
1	fN	195	ASN	CA-C-N	5.45	124.91	119.24
1	fN	195	ASN	C-N-CA	5.45	124.91	119.24
1	fS	145	TYR	CA-CB-CG	-5.45	104.09	113.90
1	fU	141	ILE	CA-C-O	-5.45	115.60	121.27
1	fX	45	GLU	CB-CA-C	-5.45	102.31	110.16
1	g0	148	THR	CA-CB-CG2	5.45	119.77	110.50
1	0	84	HIS	CA-CB-CG	-5.45	108.35	113.80
1	a	127	GLY	N-CA-C	5.45	120.38	113.24
1	r	183	ASN	CA-C-O	5.45	126.31	120.20
1	L	18	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	4	9	GLN	CA-C-N	5.45	130.69	122.68
1	4	9	GLN	C-N-CA	5.45	130.69	122.68
1	4	139	ASN	CB-CG-OD1	-5.45	109.90	120.80
1	R	191	VAL	CA-CB-CG2	5.45	119.67	110.40
1	V	146	SER	CA-C-N	5.45	126.65	119.84
1	V	146	SER	C-N-CA	5.45	126.65	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5	222	GLY	CA-C-O	-5.45	117.56	122.57
1	9	12	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	g8	151	LEU	O-C-N	-5.45	115.53	122.34
1	gc	95	GLN	O-C-N	-5.45	116.07	123.10
1	gh	45	GLU	N-CA-C	5.45	118.22	110.10
1	gs	214	MET	N-CA-C	5.45	116.90	111.07
1	gt	36	VAL	CA-C-O	-5.45	114.59	120.47
1	gy	224	PRO	CA-C-N	5.45	127.14	120.22
1	gy	224	PRO	C-N-CA	5.45	127.14	120.22
1	gE	73	ILE	N-CA-C	5.45	115.65	110.42
1	gF	87	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	gT	177	ALA	CA-C-N	5.45	128.58	120.90
1	gT	177	ALA	C-N-CA	5.45	128.58	120.90
1	gU	194	ALA	N-CA-C	5.45	118.55	110.48
1	gY	48	THR	N-CA-CB	5.45	116.63	109.55
1	h2	86	VAL	O-C-N	-5.45	115.89	122.59
1	h2	201	ILE	CA-C-O	5.45	126.62	120.85
1	h4	177	ALA	N-CA-C	5.45	122.41	110.80
1	1I	33	SER	CA-C-N	5.45	126.65	119.84
1	1I	33	SER	C-N-CA	5.45	126.65	119.84
1	hj	28	GLU	N-CA-CB	-5.45	101.89	110.06
1	hl	110	THR	N-CA-CB	5.45	118.73	110.45
1	hD	215	MET	CA-C-O	5.45	126.23	119.97
1	hJ	212	GLU	N-CA-CB	-5.45	101.89	110.06
1	hW	210	THR	N-CA-C	5.45	117.76	110.35
1	ii	114	GLN	O-C-N	-5.45	115.94	122.15
1	ij	133	TRP	CA-CB-CG	5.45	123.95	113.60
1	im	125	PRO	CA-C-N	5.45	127.92	120.46
1	im	125	PRO	C-N-CA	5.45	127.92	120.46
1	ir	183	ASN	O-C-N	-5.45	116.42	122.09
1	iF	33	SER	CA-C-N	5.45	126.65	119.84
1	iF	33	SER	C-N-CA	5.45	126.65	119.84
1	iH	62	HIS	CA-C-N	5.45	127.58	120.28
1	iH	62	HIS	C-N-CA	5.45	127.58	120.28
1	iI	33	SER	O-C-N	-5.45	115.17	121.60
1	iY	22	ALA	O-C-N	5.45	127.89	122.12
1	j3	134	ILE	N-CA-CB	5.45	117.95	110.54
1	j5	211	LEU	N-CA-CB	-5.45	101.83	110.28
1	ja	137	GLY	O-C-N	-5.45	116.34	122.28
1	jc	77	ALA	O-C-N	5.45	127.89	122.12
1	jc	205	LEU	CA-C-N	5.45	130.42	121.87
1	jc	205	LEU	C-N-CA	5.45	130.42	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	76	GLU	N-CA-CB	5.45	117.97	110.07
1	jk	67	GLN	O-C-N	-5.45	115.94	122.15
1	jo	79	GLU	CA-C-O	5.45	126.54	120.82
1	jz	12	HIS	N-CA-C	5.45	118.13	110.23
1	jT	148	THR	CA-C-N	5.45	128.83	120.82
1	jT	148	THR	C-N-CA	5.45	128.83	120.82
1	jU	196	PRO	N-CA-C	5.45	121.10	113.53
1	jV	143	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	jY	140	LYS	CA-C-N	5.45	127.43	120.56
1	jY	140	LYS	C-N-CA	5.45	127.43	120.56
1	k3	20	LEU	N-CA-CB	-5.45	102.10	110.16
1	k4	136	LEU	O-C-N	-5.45	116.34	122.12
1	kb	64	ALA	CA-C-N	5.45	127.85	120.44
1	kb	64	ALA	C-N-CA	5.45	127.85	120.44
1	kj	162	ARG	N-CA-C	5.45	117.92	111.33
1	kw	100	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	lh	21	ASN	O-C-N	-5.45	116.34	122.12
1	lw	69	LEU	O-C-N	-5.45	115.94	122.15
1	lC	114	GLN	CA-C-O	5.45	126.19	120.42
1	lI	135	ILE	CA-C-N	5.45	127.58	120.28
1	lI	135	ILE	C-N-CA	5.45	127.58	120.28
1	lR	194	ALA	O-C-N	-5.45	116.38	122.75
1	2o	45	GLU	CB-CG-CD	5.45	121.86	112.60
1	2w	72	THR	O-C-N	-5.45	116.34	122.12
1	2E	165	VAL	CA-C-N	5.45	127.52	120.44
1	2E	165	VAL	C-N-CA	5.45	127.52	120.44
1	2F	158	LYS	O-C-N	-5.45	115.77	122.20
1	2G	48	THR	CA-C-N	5.45	126.65	119.84
1	2G	48	THR	C-N-CA	5.45	126.65	119.84
1	30	90	PRO	N-CA-CB	5.45	107.90	103.32
1	34	80	TRP	N-CA-C	5.45	116.90	111.07
1	36	19	THR	CB-CA-C	-5.45	101.59	110.85
1	39	126	VAL	CA-C-N	5.45	125.99	119.94
1	39	126	VAL	C-N-CA	5.45	125.99	119.94
1	3d	183	ASN	N-CA-CB	-5.45	102.10	110.16
1	3e	134	ILE	N-CA-C	5.45	115.65	110.42
1	3o	2	ILE	N-CA-C	-5.45	100.59	108.87
1	3o	168	PHE	N-CA-C	-5.45	105.34	111.28
1	3r	75	GLU	O-C-N	-5.45	116.34	122.12
1	3z	161	PHE	CB-CG-CD1	5.45	129.96	120.70
1	3E	194	ALA	O-C-N	-5.45	115.95	122.65
1	3E	216	THR	CA-CB-CG2	5.45	119.76	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3G	33	SER	CA-C-O	-5.45	115.44	120.94
1	3S	125	PRO	N-CA-C	-5.45	101.13	112.36
1	3W	25	LYS	O-C-N	-5.45	115.15	122.23
1	3X	91	ILE	CA-CB-CG1	5.45	119.66	110.40
1	4b	46	GLY	CA-C-N	5.45	128.50	120.82
1	4b	46	GLY	C-N-CA	5.45	128.50	120.82
1	4b	223	GLY	CA-C-O	-5.45	113.73	121.52
1	4f	11	VAL	CA-C-O	-5.45	116.38	120.96
1	4l	178	SER	CA-C-N	5.45	128.12	120.28
1	4l	178	SER	C-N-CA	5.45	128.12	120.28
1	4D	124	ILE	CA-C-N	-5.45	113.03	119.84
1	4D	124	ILE	C-N-CA	-5.45	113.03	119.84
1	4Q	55	MET	N-CA-C	5.45	116.90	111.07
1	4Z	179	GLN	CA-C-N	5.45	127.58	120.28
1	4Z	179	GLN	C-N-CA	5.45	127.58	120.28
1	53	62	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	59	44	SER	N-CA-CB	5.45	118.84	110.61
1	5n	87	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
1	5u	118	MET	CG-SD-CE	-5.45	88.91	100.90
1	5y	162	ARG	NE-CZ-NH2	-5.45	114.30	119.20
1	5C	19	THR	N-CA-CB	5.45	118.06	109.94
1	5O	13	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	5P	14	ALA	N-CA-C	5.45	118.13	110.23
1	5P	182	LYS	CA-C-N	5.45	127.58	120.28
1	5P	182	LYS	C-N-CA	5.45	127.58	120.28
1	5S	43	LEU	CA-C-O	5.45	126.33	120.55
1	5T	7	GLN	N-CA-CB	5.45	122.63	113.10
1	5Z	14	ALA	CA-C-O	5.45	127.08	120.81
1	63	22	ALA	N-CA-C	5.45	117.97	111.71
1	68	140	LYS	N-CA-C	5.45	118.14	111.82
1	6i	11	VAL	N-CA-C	5.45	116.72	109.37
1	6l	63	GLN	O-C-N	-5.45	114.94	122.46
1	6t	112	GLN	CA-C-O	5.45	126.33	120.55
1	6y	200	THR	CA-C-N	5.45	127.43	120.56
1	6y	200	THR	C-N-CA	5.45	127.43	120.56
1	6A	37	ILE	N-CA-C	5.45	118.89	112.35
1	6B	40	PHE	CA-C-O	5.45	126.20	120.42
1	6U	34	PRO	N-CA-C	-5.45	107.66	114.20
1	6U	160	PRO	N-CA-C	5.45	119.77	111.11
1	7g	112	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	7h	118	MET	CA-C-N	5.45	128.59	120.31
1	7h	118	MET	C-N-CA	5.45	128.59	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7m	64	ALA	CA-C-O	-5.45	115.10	120.82
1	7A	200	THR	N-CA-CB	5.45	118.13	110.12
1	7D	103	ASP	CA-CB-CG	-5.45	107.15	112.60
1	7K	9	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	7N	132	ARG	CG-CD-NE	-5.45	100.01	112.00
1	7P	195	ASN	CA-CB-CG	5.45	118.05	112.60
1	83	110	THR	N-CA-CB	5.45	118.57	110.29
1	8l	37	ILE	CB-CA-C	5.45	121.28	111.36
1	8B	123	PRO	N-CA-C	5.45	119.64	111.14
1	8M	4	GLN	N-CA-C	-5.45	101.84	109.69
1	8U	134	ILE	CA-C-N	5.45	128.21	120.53
1	8U	134	ILE	C-N-CA	5.45	128.21	120.53
1	90	46	GLY	CA-C-O	5.45	126.61	119.69
1	95	162	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	9e	186	THR	N-CA-CB	5.45	117.91	110.01
1	9h	165	VAL	N-CA-CB	5.45	117.95	110.54
1	9k	179	GLN	O-C-N	-5.45	116.34	122.12
1	9N	39	MET	N-CA-C	5.45	117.65	111.11
1	9U	132	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	a6	10	MET	N-CA-C	5.45	122.41	110.80
1	10	226	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	ah	36	VAL	CA-C-N	5.45	124.69	120.33
1	ah	36	VAL	C-N-CA	5.45	124.69	120.33
1	ai	72	THR	CA-C-N	5.45	128.16	120.42
1	ai	72	THR	C-N-CA	5.45	128.16	120.42
1	ao	87	HIS	N-CA-C	5.45	118.42	109.76
1	as	30	LYS	N-CA-C	-5.45	105.94	112.59
1	aF	19	THR	N-CA-CB	5.45	117.91	110.01
1	aV	222	GLY	O-C-N	-5.45	118.12	122.81
1	15	207	PRO	CA-C-N	5.45	130.56	122.82
1	15	207	PRO	C-N-CA	5.45	130.56	122.82
1	aY	149	SER	O-C-N	-5.45	116.94	123.31
1	b5	192	GLN	N-CA-C	5.45	117.65	111.11
1	bl	7	GLN	N-CA-CB	5.45	120.76	111.66
1	bq	64	ALA	CA-C-N	5.45	127.52	120.44
1	bq	64	ALA	C-N-CA	5.45	127.52	120.44
1	br	182	LYS	CA-C-N	5.45	127.58	120.28
1	br	182	LYS	C-N-CA	5.45	127.58	120.28
1	bw	51	ASP	CA-C-N	5.45	127.58	120.28
1	bw	51	ASP	C-N-CA	5.45	127.58	120.28
1	bB	97	ARG	N-CA-CB	5.45	118.05	110.04
1	bH	155	GLN	OE1-CD-NE2	-5.45	117.15	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bH	187	GLU	CA-C-N	5.45	127.52	120.44
1	bH	187	GLU	C-N-CA	5.45	127.52	120.44
1	bX	185	MET	CG-SD-CE	-5.45	88.91	100.90
1	c2	97	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	c4	63	GLN	CA-C-N	5.45	128.03	120.29
1	c4	63	GLN	C-N-CA	5.45	128.03	120.29
1	ca	114	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	cd	30	LYS	N-CA-C	-5.45	107.18	113.88
1	ch	64	ALA	CA-C-N	5.45	128.03	120.29
1	ch	64	ALA	C-N-CA	5.45	128.03	120.29
1	cm	68	MET	N-CA-C	5.45	117.65	111.11
1	cs	188	THR	N-CA-CB	5.45	119.70	110.49
1	cR	10	MET	CA-C-N	5.45	130.43	122.69
1	cR	10	MET	C-N-CA	5.45	130.43	122.69
1	cS	62	HIS	O-C-N	5.45	129.31	122.55
1	d2	120	HIS	CA-CB-CG	5.45	119.25	113.80
1	dd	68	MET	O-C-N	-5.45	116.21	122.09
1	dA	163	ASP	CA-C-N	5.45	127.90	120.54
1	dA	163	ASP	C-N-CA	5.45	127.90	120.54
1	1m	14	ALA	O-C-N	-5.45	116.58	123.01
1	e3	117	TRP	N-CA-CB	5.45	118.13	110.12
1	em	50	GLN	CA-C-N	5.45	127.90	120.54
1	em	50	GLN	C-N-CA	5.45	127.90	120.54
1	1r	44	SER	N-CA-C	5.45	119.62	112.92
1	eF	164	TYR	N-CA-C	5.45	116.90	111.07
1	eO	162	ARG	CA-CB-CG	5.45	125.00	114.10
1	eX	11	VAL	CB-CA-C	5.45	118.69	110.63
1	f5	139	ASN	CA-C-O	-5.45	114.78	120.55
1	fo	44	SER	CA-C-N	5.45	131.94	121.54
1	fo	44	SER	C-N-CA	5.45	131.94	121.54
1	fp	22	ALA	CA-C-N	5.45	127.90	120.54
1	fp	22	ALA	C-N-CA	5.45	127.90	120.54
1	fq	92	GLU	N-CA-C	5.45	116.75	109.83
1	1x	209	ALA	N-CA-CB	-5.45	101.03	109.69
1	fH	21	ASN	N-CA-C	5.45	117.22	111.28
1	fW	132	ARG	N-CA-C	-5.45	105.76	112.90
1	g1	48	THR	CA-C-N	5.45	125.79	119.47
1	g1	48	THR	C-N-CA	5.45	125.79	119.47
1	g2	59	VAL	N-CA-CB	5.45	116.75	110.49
1	j	76	GLU	O-C-N	-5.45	116.34	122.12
1	1	115	ILE	O-C-N	-5.45	116.58	121.87
1	x	110	THR	CA-C-N	5.45	128.03	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	x	110	THR	C-N-CA	5.45	128.03	120.29
1	z	140	LYS	N-CA-C	5.45	117.30	111.36
1	z	152	ASP	N-CA-CB	-5.45	102.11	110.44
1	B	175	GLU	N-CA-CB	-5.45	101.96	109.97
1	9	197	ASP	CA-C-O	5.45	126.20	120.42
1	gc	72	THR	CA-C-O	5.45	126.32	120.55
1	gi	153	ILE	N-CA-CB	5.45	117.24	110.05
1	gV	226	HIS	CA-C-N	5.45	129.49	120.94
1	gV	226	HIS	C-N-CA	5.45	129.49	120.94
1	1G	124	ILE	CA-C-O	-5.45	117.18	120.88
1	h2	92	GLU	CA-C-O	-5.45	112.70	120.16
1	hl	48	THR	CA-C-O	-5.45	114.78	120.88
1	hl	104	ILE	N-CA-C	5.45	116.94	111.00
1	hA	16	SER	CA-C-N	5.45	125.53	119.32
1	hA	16	SER	C-N-CA	5.45	125.53	119.32
1	hP	38	PRO	O-C-N	-5.45	115.29	122.64
1	hQ	84	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	hU	164	TYR	CB-CA-C	5.45	119.83	110.79
1	ip	33	SER	N-CA-C	5.45	117.41	109.84
1	j7	81	ASP	O-C-N	-5.45	114.94	122.46
1	jp	70	LYS	O-C-N	-5.45	115.03	122.33
1	jH	150	ILE	O-C-N	-5.45	115.64	121.80
1	kt	171	THR	O-C-N	-5.45	115.94	122.15
1	kM	63	GLN	CG-CD-NE2	5.45	124.57	116.40
1	24	18	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	kQ	78	ALA	N-CA-C	5.45	116.90	111.07
1	lg	200	THR	CA-C-N	5.45	127.42	120.56
1	lg	200	THR	C-N-CA	5.45	127.42	120.56
1	ln	104	ILE	CB-CA-C	-5.45	104.90	112.04
1	lP	120	HIS	CB-CA-C	-5.45	100.29	109.50
1	2c	123	PRO	CA-C-N	5.45	129.06	122.85
1	2c	123	PRO	C-N-CA	5.45	129.06	122.85
1	2g	57	ASN	CB-CG-ND2	5.45	124.57	116.40
1	2S	86	VAL	CA-C-N	-5.45	114.95	122.30
1	2S	86	VAL	C-N-CA	-5.45	114.95	122.30
1	34	73	ILE	N-CA-C	5.45	116.08	110.36
1	37	130	TYR	N-CA-CB	-5.45	102.08	110.20
1	37	140	LYS	CA-C-N	5.45	127.63	120.60
1	37	140	LYS	C-N-CA	5.45	127.63	120.60
1	3c	212	GLU	N-CA-C	5.45	117.22	111.28
1	3f	171	THR	CA-C-N	5.45	127.58	120.28
1	3f	171	THR	C-N-CA	5.45	127.58	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3p	16	SER	CA-C-O	-5.45	114.76	120.70
1	3r	158	LYS	CG-CD-CE	5.45	123.83	111.30
1	3w	151	LEU	N-CA-C	5.45	117.92	111.33
1	3B	168	PHE	CA-C-N	5.45	127.58	120.28
1	3B	168	PHE	C-N-CA	5.45	127.58	120.28
1	3F	175	GLU	O-C-N	-5.45	116.58	123.01
1	3O	160	PRO	N-CD-CG	5.45	111.37	103.20
1	3W	67	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	44	181	VAL	CA-C-O	5.45	126.62	120.85
1	46	140	LYS	CB-CA-C	5.45	119.83	110.79
1	4d	82	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	4B	120	HIS	CG-CD2-NE2	5.45	112.65	107.20
1	4U	200	THR	OG1-CB-CG2	-5.45	98.41	109.30
1	4W	68	MET	CA-C-N	5.45	127.52	120.44
1	4W	68	MET	C-N-CA	5.45	127.52	120.44
1	5q	11	VAL	O-C-N	-5.45	116.04	122.58
1	5D	46	GLY	CA-C-N	5.45	128.60	120.87
1	5D	46	GLY	C-N-CA	5.45	128.60	120.87
1	5I	88	ALA	CA-C-N	5.45	130.42	121.87
1	5I	88	ALA	C-N-CA	5.45	130.42	121.87
1	5I	205	LEU	N-CA-CB	5.45	118.69	110.30
1	5L	131	LYS	CA-CB-CG	5.45	125.00	114.10
1	6w	192	GLN	N-CA-C	5.45	117.30	111.36
1	6O	53	ASN	N-CA-C	5.45	117.22	111.28
1	7e	225	GLY	CA-C-O	5.45	128.29	122.03
1	7k	90	PRO	CA-C-O	-5.45	115.20	121.36
1	7B	188	THR	CA-C-N	5.45	127.58	120.28
1	7B	188	THR	C-N-CA	5.45	127.58	120.28
1	7C	165	VAL	N-CA-C	5.45	117.90	111.09
1	7N	29	GLU	N-CA-CB	-5.45	101.84	110.28
1	7S	37	ILE	CB-CA-C	5.45	121.27	111.36
1	8m	51	ASP	CA-CB-CG	-5.45	107.15	112.60
1	8w	14	ALA	N-CA-CB	-5.45	102.03	110.04
1	8E	54	THR	O-C-N	5.45	127.68	122.07
1	8Q	168	PHE	CA-C-O	5.45	126.32	120.55
1	9K	50	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	9P	151	LEU	O-C-N	-5.45	114.94	122.46
1	ab	183	ASN	CB-CG-ND2	5.45	124.57	116.40
1	aj	137	GLY	CA-C-N	5.45	127.58	120.28
1	aj	137	GLY	C-N-CA	5.45	127.58	120.28
1	13	110	THR	CA-CB-CG2	5.45	119.76	110.50
1	aH	79	GLU	N-CA-C	5.45	117.30	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aO	218	CYS	CB-CA-C	5.45	119.47	111.73
1	15	62	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	b5	19	THR	N-CA-C	5.45	117.22	111.28
1	bc	181	VAL	O-C-N	-5.45	116.59	121.87
1	bq	187	GLU	CA-C-O	5.45	126.54	120.82
1	bx	229	ARG	NE-CZ-NH2	-5.45	114.30	119.20
1	cQ	170	LYS	N-CA-C	5.45	117.22	111.28
1	1i	16	SER	N-CA-C	5.45	116.93	110.07
1	dk	139	ASN	CA-CB-CG	-5.45	107.15	112.60
1	dI	100	ARG	CA-C-O	-5.45	115.68	121.94
1	dJ	154	ARG	NE-CZ-NH1	5.45	126.95	121.50
1	dQ	115	ILE	N-CA-CB	5.45	117.95	110.54
1	en	207	PRO	N-CA-C	5.45	121.71	113.81
1	1s	215	MET	N-CA-C	5.45	119.19	112.54
1	eX	123	PRO	CB-CA-C	5.45	118.07	110.17
1	f2	193	ASN	O-C-N	5.45	127.89	122.12
1	fs	96	MET	CA-C-N	5.45	131.94	121.54
1	fs	96	MET	C-N-CA	5.45	131.94	121.54
1	fE	50	GLN	CA-C-O	5.45	126.51	120.63
1	g4	159	GLU	CA-C-N	5.45	125.76	119.93
1	g4	159	GLU	C-N-CA	5.45	125.76	119.93
1	a	152	ASP	CA-CB-CG	-5.45	107.15	112.60
1	p	102	SER	CB-CA-C	-5.45	100.21	110.67
1	C	196	PRO	O-C-N	-5.45	115.29	122.64
1	O	184	TRP	N-CA-C	5.45	117.22	111.28
1	Q	150	ILE	CA-C-N	5.45	128.12	120.28
1	Q	150	ILE	C-N-CA	5.45	128.12	120.28
1	8	114	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	8	227	LYS	CA-C-N	5.45	130.79	122.29
1	8	227	LYS	C-N-CA	5.45	130.79	122.29
1	gn	135	ILE	O-C-N	-5.45	116.55	121.89
1	gM	13	GLN	O-C-N	-5.45	116.15	123.23
1	gO	194	ALA	O-C-N	-5.45	116.43	122.86
1	gW	49	PRO	CA-C-N	5.45	127.89	120.54
1	gW	49	PRO	C-N-CA	5.45	127.89	120.54
1	hu	18	ARG	CA-C-N	5.45	127.52	120.44
1	hu	18	ARG	C-N-CA	5.45	127.52	120.44
1	1K	185	MET	N-CA-C	5.45	117.92	111.33
1	hE	36	VAL	CA-C-N	5.45	124.69	120.33
1	hE	36	VAL	C-N-CA	5.45	124.69	120.33
1	hV	159	GLU	N-CA-CB	5.45	120.39	109.28
1	i0	32	PHE	CA-C-O	5.45	126.81	120.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i2	170	LYS	N-CA-C	5.45	116.90	111.07
1	i6	111	LEU	N-CA-C	5.45	117.22	111.28
1	ie	204	ALA	CA-C-N	5.45	127.58	120.28
1	ie	204	ALA	C-N-CA	5.45	127.58	120.28
1	ih	219	GLN	O-C-N	-5.45	115.85	122.82
1	io	154	ARG	CG-CD-NE	-5.45	100.02	112.00
1	iu	134	ILE	CA-C-O	-5.45	115.08	120.85
1	iv	134	ILE	CA-C-N	5.45	127.62	120.60
1	iv	134	ILE	C-N-CA	5.45	127.62	120.60
1	ix	58	THR	O-C-N	-5.45	116.21	122.09
1	iE	138	LEU	CA-C-N	5.45	127.84	120.38
1	iE	138	LEU	C-N-CA	5.45	127.84	120.38
1	iI	84	HIS	CG-CD2-NE2	5.45	112.64	107.20
1	iW	121	ASN	O-C-N	-5.45	114.40	121.10
1	j7	116	GLY	CA-C-N	5.45	127.52	120.44
1	j7	116	GLY	C-N-CA	5.45	127.52	120.44
1	jb	141	ILE	CA-C-N	5.45	127.92	120.46
1	jb	141	ILE	C-N-CA	5.45	127.92	120.46
1	ji	110	THR	N-CA-C	-5.45	100.79	109.07
1	ji	126	VAL	N-CA-C	5.45	116.83	110.62
1	1V	64	ALA	O-C-N	5.45	127.68	122.07
1	1V	192	GLN	N-CA-C	5.45	118.72	111.75
1	jT	210	THR	N-CA-CB	5.45	118.73	110.45
1	jX	90	PRO	CA-C-N	-5.45	116.01	123.14
1	jX	90	PRO	C-N-CA	-5.45	116.01	123.14
1	k4	135	ILE	N-CA-C	5.45	116.22	110.72
1	k5	108	THR	CB-CA-C	-5.45	101.95	110.94
1	km	129	ILE	N-CA-C	-5.45	104.14	111.44
1	kt	182	LYS	CA-C-N	5.45	127.58	120.28
1	kt	182	LYS	C-N-CA	5.45	127.58	120.28
1	kt	226	HIS	ND1-CE1-NE2	5.45	113.84	108.40
1	ky	197	ASP	N-CA-C	5.45	117.30	111.36
1	kD	152	ASP	N-CA-C	5.45	117.92	111.33
1	kI	151	LEU	N-CA-C	5.45	118.14	111.82
1	kM	97	ARG	O-C-N	-5.45	116.43	122.86
1	kU	97	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	le	109	SER	N-CA-C	5.45	117.54	108.99
1	lf	199	LYS	N-CA-C	5.45	117.22	111.28
1	lg	101	GLY	CA-C-O	5.45	126.36	120.75
1	lg	162	ARG	N-CA-C	5.45	117.92	111.33
1	lm	33	SER	CA-C-N	5.45	125.53	119.32
1	lm	33	SER	C-N-CA	5.45	125.53	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lz	200	THR	N-CA-C	5.45	117.22	111.28
1	lD	47	ALA	CA-C-N	5.45	129.74	121.03
1	lD	47	ALA	C-N-CA	5.45	129.74	121.03
1	lM	57	ASN	CA-C-O	5.45	126.06	119.31
1	lO	167	ARG	NE-CZ-NH2	5.45	124.10	119.20
1	2f	135	ILE	CA-C-N	5.45	127.52	120.44
1	2f	135	ILE	C-N-CA	5.45	127.52	120.44
1	2g	81	ASP	O-C-N	-5.45	116.43	122.09
1	2j	196	PRO	N-CA-CB	5.45	108.97	103.25
1	2F	107	THR	CA-CB-CG2	5.45	119.76	110.50
1	30	156	GLY	O-C-N	-5.45	116.32	121.77
1	37	13	GLN	N-CA-CB	5.45	119.83	110.68
1	3g	188	THR	CA-C-N	5.45	128.99	120.82
1	3g	188	THR	C-N-CA	5.45	128.99	120.82
1	3j	55	MET	N-CA-C	5.45	117.64	111.11
1	4c	116	GLY	CA-C-N	5.45	128.02	120.29
1	4c	116	GLY	C-N-CA	5.45	128.02	120.29
1	4o	27	VAL	N-CA-C	5.45	116.17	110.62
1	4v	90	PRO	N-CA-C	5.45	123.69	112.47
1	4x	20	LEU	CA-C-N	5.45	127.52	120.44
1	4x	20	LEU	C-N-CA	5.45	127.52	120.44
1	4z	67	GLN	OE1-CD-NE2	-5.45	117.15	122.60
1	4A	37	ILE	CA-C-N	5.45	124.96	119.19
1	4A	37	ILE	C-N-CA	5.45	124.96	119.19
1	4I	62	HIS	CB-CG-ND1	-5.45	114.53	122.70
1	4Z	80	TRP	O-C-N	-5.45	116.35	122.12
1	5b	176	GLN	CA-C-N	5.45	129.42	121.31
1	5b	176	GLN	C-N-CA	5.45	129.42	121.31
1	5D	91	ILE	O-C-N	-5.45	116.40	122.66
1	5E	55	MET	N-CA-C	5.45	117.22	111.28
1	5R	113	GLU	CB-CG-CD	-5.45	103.34	112.60
1	5S	50	GLN	O-C-N	-5.45	116.46	122.07
1	5W	65	ALA	N-CA-C	5.45	116.90	111.07
1	6a	174	ALA	N-CA-CB	-5.45	101.84	110.28
1	6g	146	SER	CA-C-O	-5.45	113.06	118.34
1	6j	105	ALA	N-CA-C	5.45	117.22	111.28
1	6j	147	PRO	N-CA-CB	-5.45	98.75	103.32
1	6u	166	ASP	N-CA-CB	-5.45	102.17	110.07
1	6z	192	GLN	N-CA-C	5.45	117.22	111.28
1	6F	212	GLU	CA-C-N	5.45	127.84	120.38
1	6F	212	GLU	C-N-CA	5.45	127.84	120.38
1	6L	37	ILE	N-CA-CB	5.45	113.93	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	57	ASN	CA-CB-CG	5.45	118.05	112.60
1	77	108	THR	N-CA-CB	5.45	117.83	110.59
1	7f	41	SER	CA-C-N	5.45	127.84	120.44
1	7f	41	SER	C-N-CA	5.45	127.84	120.44
1	7m	48	THR	N-CA-CB	5.45	116.06	109.74
1	7s	100	ARG	CG-CD-NE	-5.45	100.02	112.00
1	7t	139	ASN	OD1-CG-ND2	-5.45	117.15	122.60
1	7v	39	MET	CG-SD-CE	-5.45	88.92	100.90
1	7A	63	GLN	N-CA-C	5.45	118.14	111.82
1	7L	26	VAL	CA-CB-CG1	5.45	119.66	110.40
1	8b	107	THR	N-CA-CB	5.45	117.97	110.07
1	8u	94	GLY	CA-C-N	5.45	128.82	120.82
1	8u	94	GLY	C-N-CA	5.45	128.82	120.82
1	8H	160	PRO	N-CD-CG	5.45	111.37	103.20
1	8O	140	LYS	O-C-N	-5.45	115.94	122.15
1	8T	173	ARG	NH1-CZ-NH2	-5.45	112.22	119.30
1	9a	172	LEU	CA-C-N	5.45	127.52	120.44
1	9a	172	LEU	C-N-CA	5.45	127.52	120.44
1	9k	25	LYS	N-CA-C	5.45	116.90	111.07
1	9v	164	TYR	CA-C-N	5.45	128.15	120.42
1	9v	164	TYR	C-N-CA	5.45	128.15	120.42
1	9B	124	ILE	N-CA-CB	5.45	117.73	111.31
1	9E	87	HIS	ND1-CE1-NE2	5.45	113.85	108.40
1	9G	25	LYS	N-CA-C	5.45	116.90	111.07
1	9G	159	GLU	CA-C-N	5.45	125.45	119.90
1	9G	159	GLU	C-N-CA	5.45	125.45	119.90
1	9H	211	LEU	O-C-N	-5.45	114.94	122.46
1	9Q	184	TRP	O-C-N	-5.45	116.46	122.07
1	a8	129	ILE	N-CA-C	5.45	116.22	110.72
1	10	150	ILE	CB-CA-C	-5.45	103.44	112.26
1	aq	163	ASP	CA-CB-CG	-5.45	107.15	112.60
1	au	91	ILE	O-C-N	-5.45	116.73	123.10
1	aD	226	HIS	ND1-CE1-NE2	5.45	113.84	108.40
1	aL	84	HIS	CB-CG-ND1	5.45	130.87	122.70
1	aQ	198	CYS	O-C-N	-5.45	116.35	122.12
1	aS	71	GLU	CA-C-N	5.45	128.02	120.29
1	aS	71	GLU	C-N-CA	5.45	128.02	120.29
1	aT	100	ARG	O-C-N	-5.45	115.45	122.20
1	aU	63	GLN	N-CA-CB	5.45	118.12	110.12
1	aV	17	PRO	N-CA-C	-5.45	107.05	113.86
1	15	81	ASP	CA-CB-CG	5.45	118.05	112.60
1	b1	163	ASP	CA-C-O	-5.45	114.78	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b1	201	ILE	O-C-N	-5.45	115.65	121.80
1	b6	11	VAL	CA-C-N	5.45	129.08	121.02
1	b6	11	VAL	C-N-CA	5.45	129.08	121.02
1	b7	110	THR	CA-CB-OG1	5.45	117.77	109.60
1	ba	53	ASN	N-CA-C	5.45	116.90	111.07
1	bo	201	ILE	N-CA-C	5.45	115.65	110.42
1	br	53	ASN	N-CA-C	-5.45	105.42	111.36
1	bw	58	THR	CA-C-O	5.45	125.93	119.56
1	by	171	THR	O-C-N	-5.45	114.33	122.39
1	19	195	ASN	N-CA-C	5.45	116.27	109.57
1	bO	167	ARG	CB-CA-C	5.45	121.49	110.38
1	bP	18	ARG	N-CA-CB	5.45	118.12	110.12
1	bR	188	THR	N-CA-C	-5.45	107.29	114.04
1	bW	127	GLY	N-CA-C	5.45	119.08	112.49
1	c9	24	VAL	CA-C-N	5.45	127.58	120.28
1	c9	24	VAL	C-N-CA	5.45	127.58	120.28
1	cd	202	LEU	N-CA-C	5.45	118.14	111.82
1	ce	97	ARG	N-CA-CB	5.45	118.15	110.36
1	ch	107	THR	O-C-N	-5.45	115.03	122.33
1	cv	213	GLU	CA-C-O	-5.45	115.10	120.82
1	cw	84	HIS	ND1-CE1-NE2	5.45	113.84	108.40
1	cx	171	THR	O-C-N	-5.45	116.35	122.12
1	cy	177	ALA	N-CA-CB	-5.45	101.03	109.69
1	cS	46	GLY	CA-C-N	5.45	129.08	121.24
1	cS	46	GLY	C-N-CA	5.45	129.08	121.24
1	d0	189	LEU	N-CA-C	5.45	116.90	111.07
1	d1	182	LYS	CA-CB-CG	-5.45	103.21	114.10
1	eu	230	VAL	O-C-N	-5.45	117.46	123.18
1	ev	51	ASP	O-C-N	-5.45	116.46	122.07
1	1r	191	VAL	N-CA-CB	-5.45	104.15	112.15
1	ew	64	ALA	CA-C-N	5.45	127.52	120.44
1	ew	64	ALA	C-N-CA	5.45	127.52	120.44
1	ez	71	GLU	CA-C-O	5.45	126.32	120.55
1	eA	197	ASP	N-CA-CB	-5.45	102.11	110.12
1	f1	35	GLU	CA-C-O	5.45	126.13	119.05
1	f3	83	LEU	N-CA-C	5.45	117.30	111.36
1	1v	26	VAL	N-CA-C	5.45	115.65	110.42
1	fg	177	ALA	N-CA-CB	5.45	118.05	110.04
1	fj	5	ASN	CA-C-N	5.45	133.40	124.31
1	fj	5	ASN	C-N-CA	5.45	133.40	124.31
1	fx	62	HIS	CB-CG-ND1	-5.45	114.53	122.70
1	fx	183	ASN	O-C-N	-5.45	115.15	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	169	TYR	CA-CB-CG	-5.45	104.10	113.90
1	fQ	229	ARG	O-C-N	5.45	129.92	122.46
1	g4	100	ARG	NE-CZ-NH2	-5.45	114.30	119.20
1	j	226	HIS	CA-CB-CG	5.45	119.25	113.80
1	y	33	SER	O-C-N	-5.45	115.83	121.60
1	z	11	VAL	N-CA-CB	-5.45	105.58	112.60
1	C	181	VAL	N-CA-C	-5.45	105.22	110.72
1	G	169	TYR	CA-C-N	5.45	127.58	120.28
1	G	169	TYR	C-N-CA	5.45	127.58	120.28
1	4	17	PRO	CA-C-N	5.45	127.58	120.28
1	4	17	PRO	C-N-CA	5.45	127.58	120.28
1	gn	158	LYS	N-CA-C	5.44	120.03	113.17
1	gH	226	HIS	N-CA-C	5.44	118.37	110.42
1	gK	97	ARG	CA-C-N	5.44	128.05	120.65
1	gK	97	ARG	C-N-CA	5.44	128.05	120.65
1	gS	68	MET	CA-C-N	5.44	128.02	120.29
1	gS	68	MET	C-N-CA	5.44	128.02	120.29
1	gT	66	MET	O-C-N	-5.44	116.43	122.09
1	h8	171	THR	CA-C-O	5.44	126.19	120.42
1	hs	87	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	hN	135	ILE	O-C-N	-5.44	116.58	121.91
1	i5	152	ASP	CA-CB-CG	5.44	118.04	112.60
1	ia	92	GLU	N-CA-C	-5.44	101.73	109.62
1	in	162	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	io	139	ASN	N-CA-CB	5.44	118.22	110.06
1	iJ	5	ASN	CB-CA-C	5.44	119.48	109.46
1	1S	53	ASN	CA-C-O	5.44	126.19	120.42
1	jw	68	MET	CA-C-N	5.44	127.52	120.44
1	jw	68	MET	C-N-CA	5.44	127.52	120.44
1	jy	200	THR	N-CA-CB	5.44	118.12	110.12
1	jQ	80	TRP	CD2-CE2-CZ2	-5.44	116.96	122.40
1	k1	56	LEU	N-CA-C	5.44	117.21	111.28
1	kb	50	GLN	CB-CA-C	-5.44	101.75	110.79
1	kv	111	LEU	CA-C-N	5.44	127.52	120.44
1	kv	111	LEU	C-N-CA	5.44	127.52	120.44
1	ky	186	THR	CA-C-N	5.44	128.02	120.29
1	ky	186	THR	C-N-CA	5.44	128.02	120.29
1	kA	95	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	kG	82	ARG	NE-CZ-NH2	-5.44	114.30	119.20
1	kK	201	ILE	CA-C-N	5.44	127.58	120.28
1	kK	201	ILE	C-N-CA	5.44	127.58	120.28
1	kX	200	THR	N-CA-CB	5.44	118.22	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l0	18	ARG	N-CA-CB	5.44	118.12	110.12
1	li	76	GLU	CA-C-O	-5.44	114.65	120.42
1	lk	12	HIS	O-C-N	-5.44	116.96	123.06
1	lq	216	THR	N-CA-CB	5.44	119.92	110.39
1	lu	144	MET	N-CA-C	5.44	116.89	111.07
1	lx	59	VAL	O-C-N	-5.44	116.77	122.81
1	lD	201	ILE	O-C-N	-5.44	116.59	121.87
1	lQ	211	LEU	N-CA-C	5.44	117.21	111.28
1	2g	115	ILE	CB-CA-C	-5.44	103.44	112.26
1	2C	193	ASN	CA-CB-CG	-5.44	107.16	112.60
1	2Q	16	SER	N-CA-C	5.44	116.55	109.64
1	2T	155	GLN	CA-CB-CG	5.44	124.99	114.10
1	2Z	219	GLN	CA-C-N	5.44	128.87	120.00
1	2Z	219	GLN	C-N-CA	5.44	128.87	120.00
1	3e	128	GLU	CA-C-N	5.44	127.92	120.46
1	3e	128	GLU	C-N-CA	5.44	127.92	120.46
1	3u	169	TYR	CB-CG-CD1	5.44	128.97	120.80
1	41	182	LYS	CA-C-N	5.44	127.84	120.38
1	41	182	LYS	C-N-CA	5.44	127.84	120.38
1	48	111	LEU	O-C-N	-5.44	116.35	122.12
1	51	134	ILE	N-CA-CB	5.44	116.92	110.55
1	5D	126	VAL	N-CA-C	5.44	116.17	110.62
1	5M	33	SER	O-C-N	-5.44	115.54	121.53
1	5Y	19	THR	N-CA-C	-5.44	104.99	111.69
1	6e	50	GLN	CB-CA-C	-5.44	102.33	110.88
1	6I	120	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	6O	65	ALA	N-CA-C	5.44	117.29	111.36
1	6S	98	GLU	O-C-N	-5.44	115.65	121.42
1	6W	161	PHE	O-C-N	-5.44	116.35	122.12
1	7e	165	VAL	CA-C-N	5.44	127.52	120.44
1	7e	165	VAL	C-N-CA	5.44	127.52	120.44
1	7j	120	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	7l	137	GLY	CA-C-N	5.44	127.58	120.28
1	7l	137	GLY	C-N-CA	5.44	127.58	120.28
1	7t	115	ILE	CA-C-N	5.44	126.13	120.03
1	7t	115	ILE	C-N-CA	5.44	126.13	120.03
1	7w	166	ASP	O-C-N	-5.44	116.35	122.12
1	7z	132	ARG	NE-CZ-NH2	5.44	124.10	119.20
1	7N	63	GLN	O-C-N	-5.44	115.00	122.46
1	7S	120	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	86	84	HIS	CA-CB-CG	-5.44	108.36	113.80
1	8u	200	THR	N-CA-C	5.44	116.89	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8x	53	ASN	O-C-N	-5.44	114.95	122.46
1	8T	148	THR	CA-CB-CG2	-5.44	101.25	110.50
1	9g	121	ASN	CA-CB-CG	-5.44	107.16	112.60
1	9u	128	GLU	O-C-N	5.44	128.76	122.17
1	9R	198	CYS	CA-C-N	5.44	127.84	120.38
1	9R	198	CYS	C-N-CA	5.44	127.84	120.38
1	9U	75	GLU	CA-C-N	5.44	127.58	120.28
1	9U	75	GLU	C-N-CA	5.44	127.58	120.28
1	9X	123	PRO	N-CA-CB	5.44	108.51	103.39
1	9Y	227	LYS	CA-C-N	5.44	128.44	120.71
1	9Y	227	LYS	C-N-CA	5.44	128.44	120.71
1	a1	75	GLU	CA-C-O	5.44	126.19	120.42
1	a1	228	ALA	CA-C-N	5.44	131.10	122.94
1	a1	228	ALA	C-N-CA	5.44	131.10	122.94
1	11	35	GLU	CA-C-N	5.44	129.23	120.30
1	11	35	GLU	C-N-CA	5.44	129.23	120.30
1	aA	126	VAL	N-CA-C	5.44	116.17	110.62
1	bl	192	GLN	CG-CD-NE2	5.44	124.57	116.40
1	bK	5	ASN	CA-C-N	5.44	128.82	120.82
1	bK	5	ASN	C-N-CA	5.44	128.82	120.82
1	bM	61	GLY	O-C-N	5.44	128.20	122.59
1	c1	162	ARG	NE-CZ-NH2	5.44	124.10	119.20
1	ch	128	GLU	CB-CG-CD	5.44	121.86	112.60
1	dc	148	THR	CA-CB-OG1	5.44	117.77	109.60
1	dw	117	TRP	N-CA-C	5.44	117.97	111.71
1	dx	116	GLY	CA-C-N	5.44	127.84	120.44
1	dx	116	GLY	C-N-CA	5.44	127.84	120.44
1	dS	154	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	dT	207	PRO	N-CA-C	5.44	120.67	113.86
1	eb	102	SER	CA-C-N	5.44	127.57	120.28
1	eb	102	SER	C-N-CA	5.44	127.57	120.28
1	1p	83	LEU	CD1-CG-CD2	-5.44	98.82	110.80
1	eq	22	ALA	N-CA-C	-5.44	105.43	111.36
1	eq	197	ASP	CA-C-O	-5.44	114.65	120.42
1	eK	201	ILE	N-CA-CB	5.44	116.92	110.55
1	1u	55	MET	N-CA-C	5.44	117.21	111.28
1	fD	90	PRO	N-CA-C	5.44	123.68	112.47
1	fE	190	LEU	N-CA-CB	-5.44	101.83	109.94
1	fQ	201	ILE	N-CA-C	5.44	116.22	110.72
1	fR	119	THR	CA-C-N	5.44	128.97	120.75
1	fR	119	THR	C-N-CA	5.44	128.97	120.75
1	fV	109	SER	N-CA-CB	5.44	119.10	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8	9	GLN	N-CA-C	5.44	118.94	110.17
1	gg	197	ASP	CA-C-N	5.44	127.57	120.28
1	gg	197	ASP	C-N-CA	5.44	127.57	120.28
1	gn	179	GLN	CB-CA-C	5.44	119.83	110.79
1	h6	103	ASP	N-CA-C	5.44	116.89	111.07
1	hr	55	MET	N-CA-C	5.44	116.89	111.07
1	hM	84	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	hN	70	LYS	CA-C-O	5.44	126.53	120.82
1	ii	126	VAL	N-CA-C	-5.44	105.22	110.72
1	iy	121	ASN	CA-C-O	-5.44	115.34	119.59
1	iG	136	LEU	CA-C-N	5.44	125.99	120.00
1	iG	136	LEU	C-N-CA	5.44	125.99	120.00
1	iO	205	LEU	CA-C-N	5.44	130.41	121.87
1	iO	205	LEU	C-N-CA	5.44	130.41	121.87
1	iQ	35	GLU	CA-C-N	5.44	128.15	120.42
1	iQ	35	GLU	C-N-CA	5.44	128.15	120.42
1	iW	120	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	iZ	154	ARG	N-CA-C	5.44	118.33	110.28
1	j5	10	MET	CB-CA-C	-5.44	104.23	111.63
1	jl	227	LYS	CA-C-N	5.44	128.44	120.71
1	jl	227	LYS	C-N-CA	5.44	128.44	120.71
1	jv	87	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	jO	197	ASP	CA-CB-CG	-5.44	107.16	112.60
1	k9	184	TRP	N-CA-C	5.44	117.21	111.28
1	kk	184	TRP	N-CA-CB	5.44	118.22	110.06
1	kp	130	TYR	N-CA-CB	5.44	117.90	110.01
1	22	224	PRO	N-CA-C	5.44	120.66	113.86
1	kD	84	HIS	CA-C-N	5.44	126.64	119.84
1	kD	84	HIS	C-N-CA	5.44	126.64	119.84
1	kJ	172	LEU	N-CA-C	5.44	116.89	111.07
1	l0	54	THR	N-CA-CB	5.44	118.12	110.12
1	l4	117	TRP	CG-CD2-CE3	-5.44	128.46	133.90
1	l6	120	HIS	CB-CG-CD2	-5.44	124.13	131.20
1	l8	38	PRO	CA-C-N	5.44	127.52	120.44
1	l8	38	PRO	C-N-CA	5.44	127.52	120.44
1	l9	59	VAL	CA-C-O	5.44	125.77	120.27
1	li	142	VAL	CA-C-O	-5.44	115.29	120.95
1	ll	40	PHE	CA-CB-CG	-5.44	108.36	113.80
1	ll	48	THR	CA-C-N	5.44	126.64	119.84
1	ll	48	THR	C-N-CA	5.44	126.64	119.84
1	lq	55	MET	CA-CB-CG	5.44	124.98	114.10
1	28	29	GLU	CA-C-O	5.44	126.36	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lC	181	VAL	CB-CA-C	5.44	119.73	112.22
1	lO	151	LEU	CA-C-O	5.44	126.23	119.97
1	2s	25	LYS	N-CA-C	5.44	118.13	111.82
1	2U	82	ARG	CA-C-O	5.44	126.25	119.12
1	3d	230	VAL	CA-C-O	5.44	127.05	121.23
1	3l	100	ARG	NE-CZ-NH2	5.44	124.10	119.20
1	3x	81	ASP	CA-CB-CG	5.44	118.04	112.60
1	3x	226	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	3D	48	THR	N-CA-CB	5.44	118.06	110.11
1	3J	117	TRP	N-CA-CB	5.44	118.12	110.12
1	3L	179	GLN	CA-C-N	5.44	127.57	120.28
1	3L	179	GLN	C-N-CA	5.44	127.57	120.28
1	3T	163	ASP	CA-CB-CG	-5.44	107.16	112.60
1	4m	90	PRO	N-CA-CB	5.44	108.15	103.31
1	4z	64	ALA	CB-CA-C	-5.44	102.30	110.90
1	4E	48	THR	CA-CB-OG1	5.44	117.76	109.60
1	4U	218	CYS	N-CA-CB	5.44	119.69	110.49
1	4X	46	GLY	O-C-N	-5.44	115.57	122.32
1	52	179	GLN	O-C-N	-5.44	116.35	122.12
1	55	96	MET	CA-C-N	5.44	128.82	120.82
1	55	96	MET	C-N-CA	5.44	128.82	120.82
1	57	124	ILE	CA-C-O	-5.44	115.11	119.25
1	5s	132	ARG	NH1-CZ-NH2	-5.44	112.22	119.30
1	5C	11	VAL	O-C-N	-5.44	117.28	123.10
1	5L	200	THR	CA-C-N	5.44	129.22	120.30
1	5L	200	THR	C-N-CA	5.44	129.22	120.30
1	5P	49	PRO	CA-C-N	5.44	127.52	120.44
1	5P	49	PRO	C-N-CA	5.44	127.52	120.44
1	5S	3	VAL	CA-C-N	5.44	131.94	121.54
1	5S	3	VAL	C-N-CA	5.44	131.94	121.54
1	5W	63	GLN	CA-C-O	-5.44	113.71	119.97
1	5Z	177	ALA	CA-C-O	5.44	126.89	120.69
1	6m	154	ARG	N-CA-C	-5.44	101.08	109.52
1	6n	48	THR	N-CA-C	5.44	118.04	110.20
1	6o	63	GLN	CB-CA-C	-5.44	101.60	110.85
1	6p	169	TYR	CA-C-N	5.44	127.89	120.54
1	6p	169	TYR	C-N-CA	5.44	127.89	120.54
1	6x	119	THR	CA-CB-CG2	5.44	119.75	110.50
1	6z	180	GLU	CB-CG-CD	-5.44	103.35	112.60
1	6P	56	LEU	CA-C-N	5.44	128.12	120.28
1	6P	56	LEU	C-N-CA	5.44	128.12	120.28
1	6Y	12	HIS	N-CA-CB	5.44	119.50	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	74	150	ILE	CA-C-O	5.44	126.61	120.95
1	7c	150	ILE	O-C-N	-5.44	114.36	121.82
1	7i	215	MET	CG-SD-CE	-5.44	88.93	100.90
1	7m	223	GLY	CA-C-N	5.44	126.64	119.84
1	7m	223	GLY	C-N-CA	5.44	126.64	119.84
1	7p	144	MET	CA-C-O	5.44	126.23	119.97
1	7u	18	ARG	CG-CD-NE	-5.44	100.03	112.00
1	7v	208	ALA	CA-C-O	5.44	125.93	119.56
1	7Q	195	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	7T	20	LEU	N-CA-C	5.44	117.21	111.28
1	7W	119	THR	CA-CB-CG2	5.44	119.75	110.50
1	7Z	48	THR	CA-C-N	5.44	125.52	119.32
1	7Z	48	THR	C-N-CA	5.44	125.52	119.32
1	86	102	SER	N-CA-CB	5.44	118.12	110.12
1	88	57	ASN	N-CA-C	-5.44	106.59	113.18
1	8f	166	ASP	CA-C-N	5.44	127.57	120.28
1	8f	166	ASP	C-N-CA	5.44	127.57	120.28
1	8C	231	LEU	N-CA-CB	5.44	119.75	110.50
1	8D	152	ASP	CA-CB-CG	-5.44	107.16	112.60
1	8O	191	VAL	CA-CB-CG1	5.44	119.65	110.40
1	8S	48	THR	CA-C-O	-5.44	115.03	120.96
1	94	1	PRO	CB-CA-C	5.44	120.44	110.10
1	9d	183	ASN	N-CA-C	5.44	116.89	111.07
1	9t	200	THR	CA-C-N	5.44	127.42	120.56
1	9t	200	THR	C-N-CA	5.44	127.42	120.56
1	9w	14	ALA	CA-C-O	5.44	127.32	121.55
1	9D	123	PRO	N-CA-CB	5.44	108.15	103.31
1	9N	87	HIS	CA-C-N	5.44	128.97	120.75
1	9N	87	HIS	C-N-CA	5.44	128.97	120.75
1	9S	76	GLU	CA-C-N	5.44	127.57	120.28
1	9S	76	GLU	C-N-CA	5.44	127.57	120.28
1	ab	176	GLN	CA-C-O	5.44	124.89	118.90
1	ac	96	MET	O-C-N	-5.44	117.18	123.33
1	ad	157	PRO	N-CA-CB	-5.44	98.29	103.41
1	ar	159	GLU	CA-C-O	-5.44	115.75	119.29
1	12	147	PRO	CB-CA-C	-5.44	102.69	110.75
1	ay	19	THR	N-CA-C	-5.44	105.43	111.36
1	aF	178	SER	CA-C-N	5.44	128.12	120.28
1	aF	178	SER	C-N-CA	5.44	128.12	120.28
1	b6	54	THR	CA-CB-OG1	5.44	117.76	109.60
1	16	159	GLU	CA-C-N	5.44	126.64	119.84
1	16	159	GLU	C-N-CA	5.44	126.64	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bg	182	LYS	CA-C-N	5.44	127.57	120.28
1	bg	182	LYS	C-N-CA	5.44	127.57	120.28
1	bh	138	LEU	CA-C-N	5.44	127.57	120.28
1	bh	138	LEU	C-N-CA	5.44	127.57	120.28
1	br	13	GLN	CA-C-N	5.44	129.49	120.94
1	br	13	GLN	C-N-CA	5.44	129.49	120.94
1	bv	67	GLN	N-CA-C	5.44	116.89	111.07
1	bL	209	ALA	N-CA-CB	5.44	118.54	109.56
1	1a	87	HIS	CB-CG-CD2	-5.44	124.12	131.20
1	c1	8	GLY	CA-C-N	5.44	131.94	121.54
1	c1	8	GLY	C-N-CA	5.44	131.94	121.54
1	c3	151	LEU	CA-C-N	5.44	128.58	120.31
1	c3	151	LEU	C-N-CA	5.44	128.58	120.31
1	c3	212	GLU	N-CA-C	5.44	117.64	111.11
1	c8	226	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	cv	185	MET	CG-SD-CE	-5.44	88.93	100.90
1	cz	5	ASN	N-CA-C	-5.44	101.85	109.69
1	1f	57	ASN	CA-CB-CG	-5.44	107.16	112.60
1	cC	39	MET	CA-C-O	-5.44	114.78	120.55
1	cG	78	ALA	O-C-N	-5.44	115.94	122.15
1	cP	26	VAL	N-CA-C	5.44	116.17	110.62
1	dc	103	ASP	CB-CA-C	-5.44	101.60	110.85
1	dd	187	GLU	N-CA-C	5.44	118.13	111.82
1	dd	230	VAL	N-CA-C	5.44	117.47	109.63
1	dg	226	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	dn	131	LYS	CA-C-N	5.44	128.02	120.29
1	dn	131	LYS	C-N-CA	5.44	128.02	120.29
1	ds	163	ASP	O-C-N	-5.44	116.35	122.12
1	du	96	MET	CG-SD-CE	-5.44	88.93	100.90
1	dH	11	VAL	CA-C-N	5.44	128.44	120.71
1	dH	11	VAL	C-N-CA	5.44	128.44	120.71
1	dJ	149	SER	N-CA-C	5.44	118.17	110.50
1	dW	141	ILE	CA-CB-CG1	5.44	119.65	110.40
1	eb	171	THR	CA-CB-OG1	5.44	117.76	109.60
1	ek	37	ILE	CA-CB-CG2	5.44	119.75	110.50
1	em	28	GLU	CA-C-N	5.44	128.02	120.29
1	em	28	GLU	C-N-CA	5.44	128.02	120.29
1	ez	37	ILE	CA-C-O	-5.44	115.04	118.69
1	f0	57	ASN	O-C-N	-5.44	115.58	122.27
1	f1	210	THR	CA-C-N	5.44	128.12	120.28
1	f1	210	THR	C-N-CA	5.44	128.12	120.28
1	1v	160	PRO	CB-CA-C	5.44	118.48	111.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fD	225	GLY	N-CA-C	5.44	120.37	113.24
1	1y	149	SER	CA-CB-OG	5.44	121.99	111.10
1	fK	59	VAL	N-CA-C	5.44	115.10	107.37
1	fL	184	TRP	CH2-CZ2-CE2	5.44	124.58	117.50
1	fN	12	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	1z	169	TYR	CA-C-O	-5.44	114.75	120.63
1	1z	191	VAL	CA-C-N	5.44	127.89	120.54
1	1z	191	VAL	C-N-CA	5.44	127.89	120.54
1	fZ	31	ALA	CB-CA-C	-5.44	109.31	115.79
1	fZ	126	VAL	CA-C-N	5.44	127.20	120.34
1	fZ	126	VAL	C-N-CA	5.44	127.20	120.34
1	g2	146	SER	O-C-N	-5.44	115.06	121.32
1	g6	2	ILE	N-CA-CB	5.44	118.07	110.56
1	g6	161	PHE	CA-CB-CG	5.44	119.24	113.80
1	i	127	GLY	CA-C-N	5.44	127.57	120.28
1	i	127	GLY	C-N-CA	5.44	127.57	120.28
1	3	171	THR	CA-C-N	5.44	127.52	120.44
1	3	171	THR	C-N-CA	5.44	127.52	120.44
1	L	151	LEU	O-C-N	-5.44	115.85	122.22
1	N	51	ASP	N-CA-C	5.44	117.21	111.28
1	4	173	ARG	N-CA-CB	-5.44	101.84	110.28
1	P	145	TYR	CA-CB-CG	-5.44	104.10	113.90
1	8	203	LYS	CA-C-O	5.44	126.53	120.82
1	gb	68	MET	O-C-N	-5.44	115.95	122.15
1	gc	148	THR	CA-C-O	-5.44	114.56	120.81
1	ge	47	ALA	CA-C-N	5.44	128.95	120.68
1	ge	47	ALA	C-N-CA	5.44	128.95	120.68
1	gi	90	PRO	N-CA-C	5.44	123.68	112.47
1	gm	181	VAL	O-C-N	5.44	127.43	121.83
1	gK	59	VAL	N-CA-C	5.44	115.64	110.42
1	gN	62	HIS	CG-ND1-CE1	-5.44	100.05	109.30
1	gZ	134	ILE	CA-C-N	5.44	127.91	120.46
1	gZ	134	ILE	C-N-CA	5.44	127.91	120.46
1	hb	156	GLY	CA-C-N	5.44	124.96	119.19
1	hb	156	GLY	C-N-CA	5.44	124.96	119.19
1	hx	202	LEU	CA-C-O	-5.44	114.65	120.42
1	hz	167	ARG	CB-CG-CD	5.44	123.81	111.30
1	1K	87	HIS	N-CA-CB	5.44	119.30	110.43
1	hG	135	ILE	N-CA-C	5.44	115.64	110.42
1	hJ	71	GLU	CA-C-N	5.44	127.57	120.28
1	hJ	71	GLU	C-N-CA	5.44	127.57	120.28
1	hN	48	THR	CA-C-N	5.44	126.64	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hN	48	THR	C-N-CA	5.44	126.64	119.84
1	i6	111	LEU	CA-C-O	5.44	126.32	120.55
1	ik	3	VAL	O-C-N	-5.44	117.47	123.18
1	it	41	SER	CA-C-N	5.44	127.83	120.38
1	it	41	SER	C-N-CA	5.44	127.83	120.38
1	iu	7	GLN	CA-C-N	5.44	132.07	121.41
1	iu	7	GLN	C-N-CA	5.44	132.07	121.41
1	iu	96	MET	O-C-N	-5.44	116.18	122.87
1	iw	63	GLN	O-C-N	-5.44	115.04	122.33
1	ix	82	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	iE	195	ASN	CA-C-O	-5.44	114.56	120.87
1	iJ	101	GLY	CA-C-O	5.44	126.28	120.30
1	iN	75	GLU	CA-C-N	5.44	128.01	120.29
1	iN	75	GLU	C-N-CA	5.44	128.01	120.29
1	iN	162	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	iT	158	LYS	N-CA-CB	-5.44	101.19	110.33
1	iW	191	VAL	O-C-N	-5.44	113.88	122.04
1	1U	180	GLU	N-CA-C	5.44	116.89	111.07
1	jc	8	GLY	O-C-N	-5.44	115.85	122.76
1	jf	74	ASN	O-C-N	-5.44	114.63	122.36
1	jl	137	GLY	O-C-N	-5.44	116.91	122.19
1	ju	212	GLU	N-CA-C	5.44	116.89	111.07
1	jE	140	LYS	CA-C-N	5.44	127.42	120.56
1	jE	140	LYS	C-N-CA	5.44	127.42	120.56
1	jO	136	LEU	CA-C-N	5.44	132.07	121.41
1	jO	136	LEU	C-N-CA	5.44	132.07	121.41
1	jR	121	ASN	CA-C-O	-5.44	113.88	120.08
1	20	132	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	kl	23	TRP	CB-CG-CD2	-5.44	119.18	126.80
1	km	15	ILE	O-C-N	-5.44	117.51	122.79
1	kw	189	LEU	CA-C-O	5.44	127.01	120.92
1	kA	33	SER	O-C-N	-5.44	118.23	121.71
1	kA	50	GLN	CA-C-N	5.44	127.51	120.44
1	kA	50	GLN	C-N-CA	5.44	127.51	120.44
1	kB	181	VAL	CA-C-O	-5.44	115.08	120.85
1	kC	37	ILE	CB-CA-C	-5.44	108.53	113.70
1	23	97	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	kJ	133	TRP	CZ3-CH2-CZ2	-5.44	114.43	121.50
1	kL	185	MET	N-CA-C	5.44	117.97	111.71
1	kT	48	THR	CA-C-N	5.44	125.78	119.47
1	kT	48	THR	C-N-CA	5.44	125.78	119.47
1	l0	188	THR	CA-CB-CG2	5.44	119.75	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l4	76	GLU	CA-C-O	5.44	126.32	120.55
1	ld	167	ARG	O-C-N	5.44	127.67	122.07
1	ln	80	TRP	CB-CG-CD2	-5.44	119.18	126.80
1	lv	127	GLY	N-CA-C	5.44	119.07	112.49
1	lF	151	LEU	O-C-N	-5.44	114.49	122.43
1	lK	103	ASP	CA-C-O	5.44	126.19	120.42
1	2b	76	GLU	N-CA-C	5.44	117.21	111.28
1	2d	208	ALA	CB-CA-C	5.44	119.75	110.56
1	2g	155	GLN	O-C-N	-5.44	116.67	123.04
1	2i	98	GLU	N-CA-C	5.44	117.50	109.50
1	2l	84	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	2o	223	GLY	CA-C-O	-5.44	113.74	121.52
1	2r	11	VAL	CA-C-N	5.44	128.44	120.71
1	2r	11	VAL	C-N-CA	5.44	128.44	120.71
1	2w	211	LEU	O-C-N	-5.44	116.47	122.07
1	2y	86	VAL	CB-CA-C	5.44	120.21	111.29
1	2D	191	VAL	CA-CB-CG1	-5.44	101.15	110.40
1	2F	157	PRO	N-CA-CB	-5.44	97.51	103.39
1	2T	84	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	2X	229	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	3n	74	ASN	CA-C-O	-5.44	115.29	121.00
1	3r	195	ASN	CA-CB-CG	5.44	118.04	112.60
1	3D	107	THR	CA-CB-OG1	5.44	117.76	109.60
1	3I	132	ARG	NE-CZ-NH2	-5.44	114.30	119.20
1	3N	179	GLN	O-C-N	5.44	127.89	122.12
1	3U	106	GLY	O-C-N	-5.44	117.08	122.41
1	4d	118	MET	CG-SD-CE	-5.44	88.93	100.90
1	4w	62	HIS	N-CA-CB	5.44	119.69	110.49
1	4w	115	ILE	N-CA-CB	5.44	116.55	110.51
1	4K	105	ALA	N-CA-CB	-5.44	102.58	110.47
1	4N	223	GLY	CA-C-N	5.44	125.14	119.64
1	4N	223	GLY	C-N-CA	5.44	125.14	119.64
1	4S	100	ARG	NE-CZ-NH2	5.44	124.10	119.20
1	4Y	56	LEU	N-CA-C	5.44	117.29	111.36
1	4Y	96	MET	O-C-N	-5.44	116.58	123.05
1	56	11	VAL	CA-CB-CG2	-5.44	101.15	110.40
1	5b	134	ILE	CA-C-N	5.44	127.91	120.46
1	5b	134	ILE	C-N-CA	5.44	127.91	120.46
1	5l	89	GLY	CA-C-N	5.44	125.44	119.89
1	5l	89	GLY	C-N-CA	5.44	125.44	119.89
1	5x	133	TRP	N-CA-C	5.44	117.21	111.28
1	5E	39	MET	N-CA-C	5.44	120.29	111.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	224	PRO	N-CD-CG	5.44	111.36	103.20
1	5G	120	HIS	O-C-N	-5.44	116.59	122.79
1	5K	25	LYS	N-CA-C	5.44	117.21	111.28
1	5R	164	TYR	N-CA-C	5.44	116.89	111.07
1	5V	78	ALA	N-CA-C	5.44	117.29	111.36
1	5W	84	HIS	ND1-CG-CD2	5.44	111.54	106.10
1	62	104	ILE	N-CA-C	5.44	115.64	110.42
1	62	190	LEU	N-CA-C	5.44	120.29	111.37
1	66	189	LEU	N-CA-CB	5.44	117.90	110.01
1	69	64	ALA	N-CA-C	5.44	117.21	111.28
1	6k	66	MET	O-C-N	-5.44	116.35	122.12
1	6m	167	ARG	CB-CG-CD	5.44	123.81	111.30
1	6t	229	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	6u	72	THR	N-CA-C	5.44	117.21	111.28
1	6z	160	PRO	CA-C-N	5.44	131.93	121.54
1	6z	160	PRO	C-N-CA	5.44	131.93	121.54
1	71	84	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	73	201	ILE	N-CA-CB	5.44	117.94	110.54
1	7i	10	MET	N-CA-C	5.44	117.58	109.25
1	7i	208	ALA	N-CA-C	5.44	118.84	111.17
1	7q	123	PRO	CA-C-O	-5.44	114.83	121.03
1	7z	110	THR	N-CA-C	-5.44	101.09	109.52
1	7A	94	GLY	CA-C-N	5.44	130.51	123.00
1	7A	94	GLY	C-N-CA	5.44	130.51	123.00
1	7I	167	ARG	CG-CD-NE	-5.44	100.03	112.00
1	7S	194	ALA	CA-C-O	5.44	127.17	121.19
1	7S	214	MET	CA-C-O	5.44	126.32	120.55
1	7U	40	PHE	O-C-N	-5.44	116.47	122.07
1	83	39	MET	N-CA-C	5.44	117.21	111.28
1	8x	192	GLN	CB-CA-C	5.44	121.25	110.42
1	8y	144	MET	N-CA-C	5.44	118.13	111.82
1	8B	132	ARG	CA-CB-CG	-5.44	103.22	114.10
1	8B	155	GLN	O-C-N	-5.44	116.58	123.05
1	8G	165	VAL	CA-CB-CG2	-5.44	101.15	110.40
1	8Y	117	TRP	N-CA-C	5.44	117.21	111.28
1	9a	111	LEU	O-C-N	-5.44	116.47	122.07
1	9r	33	SER	N-CA-C	-5.44	103.32	108.22
1	9u	18	ARG	CA-C-O	5.44	126.32	120.55
1	9y	227	LYS	N-CA-C	5.44	118.33	110.28
1	9D	213	GLU	CA-C-N	5.44	127.57	120.28
1	9D	213	GLU	C-N-CA	5.44	127.57	120.28
1	9P	49	PRO	CA-C-N	5.44	127.84	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9P	49	PRO	C-N-CA	5.44	127.84	120.44
1	a0	174	ALA	N-CA-CB	-5.44	102.42	110.53
1	a8	145	TYR	CG-CD2-CE2	-5.44	113.04	121.20
1	ak	212	GLU	CA-C-O	5.44	126.23	119.97
1	aq	115	ILE	CA-C-N	5.44	126.12	120.03
1	aq	115	ILE	C-N-CA	5.44	126.12	120.03
1	13	114	GLN	CA-C-N	5.44	129.22	120.30
1	13	114	GLN	C-N-CA	5.44	129.22	120.30
1	13	193	ASN	CA-CB-CG	-5.44	107.16	112.60
1	aE	226	HIS	CB-CG-ND1	5.44	130.86	122.70
1	aO	124	ILE	CA-CB-CG2	-5.44	101.25	110.50
1	b1	163	ASP	N-CA-C	5.44	117.21	111.28
1	b3	201	ILE	N-CA-C	5.44	115.64	110.42
1	bb	24	VAL	CA-C-N	5.44	127.51	120.44
1	bb	24	VAL	C-N-CA	5.44	127.51	120.44
1	bj	191	VAL	N-CA-CB	5.44	120.15	112.15
1	bF	148	THR	N-CA-C	-5.44	99.87	108.14
1	bK	155	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	1c	18	ARG	O-C-N	-5.44	115.85	122.22
1	1d	171	THR	N-CA-CB	5.44	118.12	110.12
1	co	40	PHE	N-CA-C	5.44	117.91	111.33
1	cq	184	TRP	CE2-CD2-CE3	5.44	124.24	118.80
1	cE	178	SER	O-C-N	-5.44	116.20	122.95
1	cH	200	THR	CA-CB-CG2	5.44	119.75	110.50
1	cK	142	VAL	CA-C-N	5.44	127.51	120.44
1	cK	142	VAL	C-N-CA	5.44	127.51	120.44
1	cN	67	GLN	O-C-N	-5.44	115.95	122.15
1	cP	26	VAL	O-C-N	-5.44	116.59	121.87
1	1h	120	HIS	CA-C-O	5.44	128.29	120.51
1	cU	84	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	cW	14	ALA	O-C-N	-5.44	116.81	122.96
1	d2	172	LEU	CA-C-N	5.44	127.83	120.38
1	d2	172	LEU	C-N-CA	5.44	127.83	120.38
1	d3	199	LYS	N-CA-C	5.44	117.21	111.28
1	d4	20	LEU	CA-C-O	-5.44	115.11	120.82
1	d8	101	GLY	CA-C-N	5.44	128.58	120.31
1	d8	101	GLY	C-N-CA	5.44	128.58	120.31
1	d9	48	THR	CA-C-N	5.44	125.52	119.32
1	d9	48	THR	C-N-CA	5.44	125.52	119.32
1	da	4	GLN	N-CA-C	5.44	117.82	111.02
1	dc	92	GLU	N-CA-C	5.44	117.90	110.01
1	dd	112	GLN	CB-CG-CD	5.44	121.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dh	37	ILE	CA-C-N	5.44	124.78	118.85
1	dh	37	ILE	C-N-CA	5.44	124.78	118.85
1	dj	90	PRO	CA-C-O	-5.44	115.34	121.43
1	1k	137	GLY	CA-C-O	5.44	126.43	120.66
1	do	221	VAL	CA-C-O	5.44	126.10	120.39
1	dr	204	ALA	N-CA-C	5.44	116.89	111.07
1	dW	201	ILE	N-CA-CB	5.44	116.91	110.55
1	dZ	65	ALA	CA-C-N	5.44	127.57	120.28
1	dZ	65	ALA	C-N-CA	5.44	127.57	120.28
1	1o	7	GLN	O-C-N	-5.44	115.15	122.22
1	e6	125	PRO	CA-C-O	-5.44	117.19	121.38
1	eh	28	GLU	O-C-N	-5.44	116.35	122.12
1	eH	65	ALA	CA-C-N	5.44	127.57	120.28
1	eH	65	ALA	C-N-CA	5.44	127.57	120.28
1	eK	167	ARG	CA-C-O	-5.44	113.71	119.97
1	1t	195	ASN	CA-CB-CG	5.44	118.04	112.60
1	fo	216	THR	N-CA-C	-5.44	106.23	112.92
1	fB	40	PHE	CA-C-N	5.44	128.02	120.29
1	fB	40	PHE	C-N-CA	5.44	128.02	120.29
1	fJ	18	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	fV	128	GLU	N-CA-CB	5.44	118.60	110.22
1	fX	50	GLN	O-C-N	-5.44	116.35	122.12
1	g5	87	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	g5	185	MET	CA-C-N	5.44	127.57	120.28
1	g5	185	MET	C-N-CA	5.44	127.57	120.28
1	i	139	ASN	CB-CA-C	5.44	119.42	110.88
1	l	16	SER	N-CA-C	5.44	115.86	109.60
1	n	55	MET	CA-C-O	5.44	126.53	120.82
1	s	92	GLU	O-C-N	-5.44	116.34	121.35
1	I	133	TRP	CA-C-O	5.44	126.32	120.55
1	J	172	LEU	CA-C-N	5.44	127.51	120.44
1	J	172	LEU	C-N-CA	5.44	127.51	120.44
1	U	138	LEU	CA-C-N	5.44	128.11	120.28
1	U	138	LEU	C-N-CA	5.44	128.11	120.28
1	gD	168	PHE	N-CA-C	-5.44	105.25	111.07
1	gG	208	ALA	CA-C-O	-5.44	115.53	121.84
1	gP	85	PRO	N-CA-CB	5.44	108.01	103.17
1	h5	64	ALA	CB-CA-C	-5.44	102.34	110.88
1	hq	209	ALA	O-C-N	-5.44	116.18	122.87
1	hw	113	GLU	CA-C-N	5.44	127.51	120.44
1	hw	113	GLU	C-N-CA	5.44	127.51	120.44
1	1K	117	TRP	CA-C-N	5.44	127.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1K	117	TRP	C-N-CA	5.44	127.57	120.28
1	il	58	THR	CA-C-N	5.44	129.87	121.71
1	il	58	THR	C-N-CA	5.44	129.87	121.71
1	1R	56	LEU	N-CA-CB	5.44	118.21	110.16
1	iL	147	PRO	O-C-N	5.44	129.98	122.64
1	j6	133	TRP	CD2-CE2-CZ2	-5.44	116.96	122.40
1	j9	62	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	jo	112	GLN	N-CA-CB	5.44	118.59	110.22
1	jt	5	ASN	CA-CB-CG	5.44	118.04	112.60
1	1X	54	THR	N-CA-C	5.44	117.91	111.33
1	jW	93	PRO	O-C-N	-5.44	117.05	122.98
1	kg	51	ASP	CA-CB-CG	5.44	118.04	112.60
1	21	55	MET	N-CA-C	5.44	117.64	111.11
1	ks	52	LEU	O-C-N	-5.44	116.36	122.12
1	l2	45	GLU	N-CA-CB	5.44	117.95	109.85
1	lr	12	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	lz	56	LEU	O-C-N	-5.44	116.22	122.09
1	lE	171	THR	CA-C-N	5.44	127.51	120.44
1	lE	171	THR	C-N-CA	5.44	127.51	120.44
1	lO	119	THR	CA-CB-CG2	5.44	119.75	110.50
1	2i	166	ASP	O-C-N	-5.44	116.47	122.07
1	2J	171	THR	O-C-N	5.44	127.75	122.09
1	31	15	ILE	CB-CA-C	5.44	118.22	111.15
1	3k	189	LEU	CA-C-O	-5.44	114.78	120.55
1	3o	6	LEU	N-CA-CB	5.44	119.68	110.49
1	3G	151	LEU	N-CA-C	5.44	118.71	111.75
1	3Z	134	ILE	N-CA-CB	5.44	116.55	110.51
1	41	13	GLN	N-CA-C	-5.44	99.42	108.34
1	4h	69	LEU	N-CA-C	5.44	117.21	111.28
1	4N	227	LYS	N-CA-C	5.44	117.75	110.35
1	4P	202	LEU	N-CA-C	5.44	117.21	111.28
1	4S	168	PHE	CB-CA-C	5.44	119.42	110.88
1	4U	23	TRP	CZ3-CH2-CZ2	-5.44	114.43	121.50
1	5d	129	ILE	O-C-N	5.44	127.15	121.87
1	5e	128	GLU	CA-C-O	5.44	126.53	120.82
1	5h	102	SER	CA-C-N	5.44	127.57	120.28
1	5h	102	SER	C-N-CA	5.44	127.57	120.28
1	5s	96	MET	N-CA-C	5.44	118.12	110.23
1	5v	59	VAL	O-C-N	-5.44	117.12	122.67
1	5G	72	THR	N-CA-C	5.44	117.21	111.28
1	6c	78	ALA	CA-C-N	5.44	127.57	120.28
1	6c	78	ALA	C-N-CA	5.44	127.57	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	15	ILE	O-C-N	-5.44	117.12	122.67
1	6s	147	PRO	CA-N-CD	-5.44	104.39	112.00
1	6G	114	GLN	CB-CA-C	5.44	119.42	110.88
1	6P	73	ILE	CA-C-O	-5.44	115.41	121.17
1	6Q	200	THR	N-CA-C	5.44	119.02	112.38
1	6Z	132	ARG	NE-CZ-NH2	5.44	124.09	119.20
1	7f	57	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	7t	170	LYS	CA-C-N	5.44	127.51	120.44
1	7t	170	LYS	C-N-CA	5.44	127.51	120.44
1	7I	84	HIS	CA-C-N	5.44	125.75	119.93
1	7I	84	HIS	C-N-CA	5.44	125.75	119.93
1	7O	137	GLY	CA-C-O	-5.44	114.81	120.90
1	7O	157	PRO	CB-CA-C	5.44	120.71	112.55
1	7S	163	ASP	O-C-N	-5.44	115.66	122.24
1	7Y	203	LYS	CA-C-N	5.44	128.11	120.28
1	7Y	203	LYS	C-N-CA	5.44	128.11	120.28
1	8n	184	TRP	CB-CA-C	5.44	119.82	110.79
1	8t	61	GLY	CA-C-N	5.44	131.93	121.54
1	8t	61	GLY	C-N-CA	5.44	131.93	121.54
1	8Q	135	ILE	N-CA-C	5.44	116.17	110.62
1	8X	113	GLU	N-CA-C	5.44	116.89	111.07
1	90	215	MET	N-CA-C	-5.44	106.32	113.17
1	92	7	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	9l	103	ASP	CA-C-N	5.44	127.91	120.46
1	9l	103	ASP	C-N-CA	5.44	127.91	120.46
1	9r	211	LEU	CA-C-N	5.44	127.51	120.44
1	9r	211	LEU	C-N-CA	5.44	127.51	120.44
1	9u	15	ILE	N-CA-C	5.44	116.10	109.30
1	9z	216	THR	CA-CB-CG2	5.44	119.75	110.50
1	9P	15	ILE	O-C-N	-5.44	117.12	122.67
1	Z	227	LYS	CA-C-N	5.44	131.93	121.54
1	Z	227	LYS	C-N-CA	5.44	131.93	121.54
1	a4	147	PRO	N-CA-C	5.44	120.13	111.26
1	aa	112	GLN	CA-C-O	-5.44	115.11	120.82
1	as	88	ALA	N-CA-C	5.44	119.02	112.38
1	aH	39	MET	CA-C-N	5.44	127.57	120.28
1	aH	39	MET	C-N-CA	5.44	127.57	120.28
1	aN	6	LEU	N-CA-C	5.44	122.39	110.80
1	bb	63	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	bf	33	SER	N-CA-CB	-5.44	103.58	111.25
1	bM	226	HIS	CG-CD2-NE2	5.44	112.64	107.20
1	bP	63	GLN	O-C-N	-5.44	115.04	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c5	37	ILE	CA-C-O	-5.44	115.05	118.69
1	cj	81	ASP	CA-C-O	5.44	126.32	120.55
1	cw	84	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	cP	84	HIS	O-C-N	-5.44	116.92	121.27
1	d3	87	HIS	CA-CB-CG	5.44	119.24	113.80
1	d9	213	GLU	CA-C-O	-5.44	114.66	120.42
1	1k	177	ALA	N-CA-C	5.44	118.12	110.23
1	dp	62	HIS	CB-CG-CD2	-5.44	124.13	131.20
1	dT	67	GLN	N-CA-C	5.44	116.89	111.07
1	dT	173	ARG	NE-CZ-NH2	-5.44	114.31	119.20
1	eg	28	GLU	N-CA-C	5.44	116.89	111.07
1	ep	126	VAL	N-CA-C	5.44	116.82	110.62
1	eC	18	ARG	CD-NE-CZ	5.44	132.01	124.40
1	1s	56	LEU	CA-C-O	-5.44	112.69	119.38
1	eI	165	VAL	O-C-N	-5.44	116.56	121.89
1	eQ	188	THR	N-CA-C	5.44	117.45	108.48
1	fi	48	THR	O-C-N	-5.44	113.40	120.96
1	fA	85	PRO	CA-C-N	5.44	128.69	120.75
1	fA	85	PRO	C-N-CA	5.44	128.69	120.75
1	fR	185	MET	CA-C-N	5.44	127.51	120.44
1	fR	185	MET	C-N-CA	5.44	127.51	120.44
1	g	58	THR	N-CA-CB	5.44	119.00	110.46
1	P	174	ALA	CA-C-N	5.44	128.58	120.31
1	P	174	ALA	C-N-CA	5.44	128.58	120.31
1	gk	178	SER	CA-C-N	5.44	127.57	120.28
1	gk	178	SER	C-N-CA	5.44	127.57	120.28
1	gn	74	ASN	N-CA-C	5.44	117.21	111.28
1	gG	141	ILE	CA-CB-CG2	-5.44	101.25	110.50
1	gK	75	GLU	CA-C-N	5.44	127.57	120.28
1	gK	75	GLU	C-N-CA	5.44	127.57	120.28
1	gR	76	GLU	CA-CB-CG	-5.44	103.22	114.10
1	h0	111	LEU	N-CA-C	5.44	117.21	111.28
1	h6	141	ILE	N-CA-CB	5.44	117.94	110.54
1	h9	170	LYS	CA-C-O	5.44	126.18	120.42
1	hj	122	PRO	CA-C-N	5.44	125.44	119.89
1	hj	122	PRO	C-N-CA	5.44	125.44	119.89
1	hk	138	LEU	CA-C-N	5.44	127.83	120.38
1	hk	138	LEU	C-N-CA	5.44	127.83	120.38
1	hq	191	VAL	O-C-N	-5.44	116.23	121.83
1	hr	20	LEU	O-C-N	-5.44	116.22	122.09
1	hr	43	LEU	N-CA-C	5.44	117.21	111.28
1	hv	133	TRP	CB-CA-C	-5.44	101.76	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hv	162	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	hF	101	GLY	O-C-N	-5.44	116.92	122.19
1	hY	147	PRO	N-CA-C	5.44	123.67	112.47
1	i2	19	THR	OG1-CB-CG2	-5.44	98.43	109.30
1	ij	5	ASN	N-CA-C	5.44	118.69	111.30
1	io	99	PRO	CA-C-O	5.44	128.01	121.48
1	iq	84	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	it	102	SER	CA-C-N	5.44	127.57	120.28
1	it	102	SER	C-N-CA	5.44	127.57	120.28
1	iv	214	MET	CG-SD-CE	-5.44	88.94	100.90
1	iw	200	THR	N-CA-CB	5.44	118.22	110.06
1	iJ	211	LEU	N-CA-C	5.44	117.96	111.71
1	iU	71	GLU	CA-C-N	5.44	127.56	120.28
1	iU	71	GLU	C-N-CA	5.44	127.56	120.28
1	j0	100	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	j4	65	ALA	CA-C-N	5.44	127.57	120.28
1	j4	65	ALA	C-N-CA	5.44	127.57	120.28
1	j9	63	GLN	CB-CG-CD	-5.44	103.36	112.60
1	1U	16	SER	N-CA-C	5.44	116.74	109.83
1	ji	87	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	jr	140	LYS	CG-CD-CE	5.44	123.81	111.30
1	ju	23	TRP	CE3-CZ3-CH2	-5.44	114.03	121.10
1	jz	75	GLU	CA-C-N	5.44	127.56	120.28
1	jz	75	GLU	C-N-CA	5.44	127.56	120.28
1	jD	159	GLU	CB-CG-CD	5.44	121.84	112.60
1	jD	206	GLY	CA-C-N	5.44	125.75	119.93
1	jD	206	GLY	C-N-CA	5.44	125.75	119.93
1	jE	93	PRO	CA-C-N	5.44	131.57	122.16
1	jE	93	PRO	C-N-CA	5.44	131.57	122.16
1	jK	39	MET	N-CA-C	5.44	117.91	111.33
1	jR	15	ILE	CA-CB-CG1	5.44	119.64	110.40
1	jY	10	MET	CB-CA-C	-5.44	100.98	109.84
1	k7	120	HIS	O-C-N	-5.44	115.36	122.59
1	20	96	MET	N-CA-C	5.44	118.79	110.20
1	kc	167	ARG	O-C-N	-5.44	115.95	122.15
1	kj	143	ARG	O-C-N	-5.44	116.36	122.12
1	km	138	LEU	CA-C-N	5.44	127.83	120.38
1	km	138	LEU	C-N-CA	5.44	127.83	120.38
1	kn	19	THR	CA-CB-CG2	5.44	119.75	110.50
1	kq	164	TYR	CA-C-N	5.44	127.41	120.56
1	kq	164	TYR	C-N-CA	5.44	127.41	120.56
1	kq	184	TRP	CB-CA-C	5.44	121.11	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kT	79	GLU	O-C-N	-5.44	116.36	122.12
1	kV	105	ALA	CA-C-N	5.44	132.07	121.41
1	kV	105	ALA	C-N-CA	5.44	132.07	121.41
1	kV	193	ASN	CA-CB-CG	5.44	118.04	112.60
1	le	218	CYS	N-CA-CB	5.44	119.68	110.49
1	lh	2	ILE	CA-C-O	5.44	126.39	120.57
1	lr	5	ASN	O-C-N	-5.44	116.32	122.68
1	lr	110	THR	N-CA-CB	5.44	119.16	110.46
1	lx	70	LYS	CA-C-N	5.44	127.51	120.44
1	lx	70	LYS	C-N-CA	5.44	127.51	120.44
1	lO	173	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	2c	96	MET	CG-SD-CE	-5.44	88.94	100.90
1	2s	90	PRO	CA-C-N	5.44	128.47	120.91
1	2s	90	PRO	C-N-CA	5.44	128.47	120.91
1	2t	92	GLU	CA-C-O	-5.44	113.65	120.23
1	2G	145	TYR	CA-C-N	5.44	128.39	120.51
1	2G	145	TYR	C-N-CA	5.44	128.39	120.51
1	2J	8	GLY	CA-C-N	5.44	129.86	122.19
1	2J	8	GLY	C-N-CA	5.44	129.86	122.19
1	2K	63	GLN	N-CA-C	5.44	117.96	111.71
1	2K	229	ARG	NE-CZ-NH2	5.44	124.09	119.20
1	2P	139	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	32	82	ARG	N-CA-C	5.44	116.89	111.07
1	3c	96	MET	O-C-N	-5.44	116.21	122.95
1	3i	86	VAL	N-CA-C	5.44	116.07	108.89
1	3Z	55	MET	N-CA-C	5.44	117.29	111.36
1	40	223	GLY	CA-C-N	5.44	125.75	119.93
1	40	223	GLY	C-N-CA	5.44	125.75	119.93
1	42	185	MET	CA-C-O	5.44	126.53	120.82
1	4i	165	VAL	CA-C-N	5.44	128.01	120.29
1	4i	165	VAL	C-N-CA	5.44	128.01	120.29
1	4s	130	TYR	O-C-N	-5.44	115.95	122.15
1	4y	127	GLY	O-C-N	-5.44	116.75	122.13
1	4M	8	GLY	CA-C-O	5.44	125.75	122.22
1	4X	209	ALA	N-CA-C	5.44	118.36	110.42
1	53	87	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	59	183	ASN	CA-CB-CG	-5.44	107.16	112.60
1	5a	105	ALA	CB-CA-C	5.44	120.59	109.55
1	5l	213	GLU	CA-C-N	5.44	128.11	120.28
1	5l	213	GLU	C-N-CA	5.44	128.11	120.28
1	5W	100	ARG	CD-NE-CZ	5.44	132.01	124.40
1	5W	164	TYR	N-CA-C	5.44	117.21	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	91	ILE	CA-CB-CG2	5.44	119.74	110.50
1	66	72	THR	CA-C-N	5.44	127.50	120.70
1	66	72	THR	C-N-CA	5.44	127.50	120.70
1	6B	15	ILE	CB-CA-C	5.44	119.43	111.33
1	6C	79	GLU	CA-C-O	5.44	126.50	120.63
1	6D	199	LYS	CA-C-N	5.44	127.88	120.54
1	6D	199	LYS	C-N-CA	5.44	127.88	120.54
1	6G	79	GLU	CB-CG-CD	-5.44	103.36	112.60
1	6H	21	ASN	CA-CB-CG	5.44	118.04	112.60
1	6H	149	SER	CB-CA-C	-5.44	100.51	110.62
1	6I	107	THR	N-CA-C	5.44	116.89	111.07
1	6K	202	LEU	CA-C-N	5.44	127.83	120.38
1	6K	202	LEU	C-N-CA	5.44	127.83	120.38
1	72	175	GLU	N-CA-C	5.44	118.23	110.24
1	78	63	GLN	OE1-CD-NE2	-5.44	117.16	122.60
1	7b	69	LEU	CB-CA-C	5.44	119.42	110.88
1	7h	148	THR	CA-CB-OG1	5.44	117.75	109.60
1	7j	98	GLU	CA-C-N	5.44	125.70	119.83
1	7j	98	GLU	C-N-CA	5.44	125.70	119.83
1	7v	208	ALA	N-CA-CB	-5.44	102.62	110.56
1	7M	134	ILE	O-C-N	-5.44	116.58	121.91
1	85	122	PRO	CA-C-N	5.44	126.64	119.84
1	85	122	PRO	C-N-CA	5.44	126.64	119.84
1	86	178	SER	N-CA-C	5.44	117.96	110.35
1	88	101	GLY	CA-C-N	5.44	127.57	120.28
1	88	101	GLY	C-N-CA	5.44	127.57	120.28
1	8f	147	PRO	CA-C-N	5.44	131.93	121.54
1	8f	147	PRO	C-N-CA	5.44	131.93	121.54
1	8v	62	HIS	CA-CB-CG	-5.44	108.36	113.80
1	8B	129	ILE	CA-C-O	-5.44	115.30	120.95
1	8R	204	ALA	N-CA-C	5.44	117.64	111.11
1	8Y	230	VAL	CB-CA-C	5.44	119.00	110.95
1	93	226	HIS	CB-CG-CD2	-5.44	124.13	131.20
1	94	180	GLU	N-CA-C	5.44	117.21	111.28
1	96	55	MET	N-CA-CB	5.44	117.89	110.01
1	99	117	TRP	CB-CG-CD2	5.44	134.41	126.80
1	9a	4	GLN	O-C-N	-5.44	118.08	123.46
1	9f	5	ASN	N-CA-C	5.44	118.17	110.50
1	9j	23	TRP	O-C-N	-5.44	116.43	122.09
1	9m	210	THR	CA-C-N	5.44	127.83	120.38
1	9m	210	THR	C-N-CA	5.44	127.83	120.38
1	9q	135	ILE	CA-C-O	5.44	126.34	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9u	211	LEU	CA-C-O	-5.44	114.79	120.55
1	9v	129	ILE	N-CA-CB	5.44	117.94	110.54
1	9x	194	ALA	O-C-N	-5.44	116.82	122.96
1	9y	184	TRP	N-CA-C	5.44	116.89	111.07
1	9A	3	VAL	N-CA-C	5.44	116.07	108.89
1	9I	167	ARG	NE-CZ-NH1	-5.44	116.06	121.50
1	9T	53	ASN	N-CA-C	5.44	117.21	111.28
1	9V	133	TRP	CZ3-CH2-CZ2	-5.44	114.43	121.50
1	9Y	35	GLU	CA-C-O	5.44	126.07	119.11
1	10	59	VAL	N-CA-CB	5.44	119.56	110.86
1	ah	62	HIS	CA-C-N	5.44	128.32	120.38
1	ah	62	HIS	C-N-CA	5.44	128.32	120.38
1	ap	202	LEU	N-CA-C	5.44	119.63	112.89
1	au	159	GLU	CA-C-N	5.44	125.45	119.90
1	au	159	GLU	C-N-CA	5.44	125.45	119.90
1	ay	41	SER	CA-C-N	5.44	128.57	120.31
1	ay	41	SER	C-N-CA	5.44	128.57	120.31
1	aC	182	LYS	O-C-N	-5.44	116.36	122.12
1	aF	78	ALA	CA-C-O	5.44	126.18	120.42
1	aF	162	ARG	NE-CZ-NH2	-5.44	114.31	119.20
1	aQ	62	HIS	N-CA-CB	5.44	119.68	110.49
1	aU	62	HIS	N-CA-C	5.44	118.84	111.17
1	aX	12	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	b1	116	GLY	CA-C-N	5.44	127.83	120.65
1	b1	116	GLY	C-N-CA	5.44	127.83	120.65
1	bc	188	THR	N-CA-C	5.44	120.82	114.62
1	bd	183	ASN	CA-C-O	-5.44	114.79	120.55
1	17	193	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	bx	66	MET	CA-C-N	5.44	128.01	120.29
1	bx	66	MET	C-N-CA	5.44	128.01	120.29
1	by	69	LEU	CA-C-O	-5.44	115.10	120.70
1	bD	123	PRO	N-CA-C	5.44	123.67	112.47
1	bE	132	ARG	CG-CD-NE	-5.44	100.04	112.00
1	1a	195	ASN	N-CA-C	5.44	121.83	109.81
1	bP	22	ALA	N-CA-C	5.44	117.91	111.33
1	bP	80	TRP	CB-CG-CD1	5.44	135.06	126.90
1	bQ	56	LEU	N-CA-C	5.44	119.08	112.23
1	bX	104	ILE	O-C-N	-5.44	116.60	121.87
1	cg	14	ALA	N-CA-C	5.44	117.31	110.24
1	ct	51	ASP	CA-C-N	5.44	127.88	120.54
1	ct	51	ASP	C-N-CA	5.44	127.88	120.54
1	cv	100	ARG	NE-CZ-NH2	-5.44	114.31	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cA	174	ALA	N-CA-CB	-5.44	101.36	110.39
1	1g	175	GLU	O-C-N	-5.44	116.24	122.93
1	cL	135	ILE	N-CA-C	5.44	116.17	110.62
1	cP	12	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	cU	91	ILE	N-CA-C	5.44	116.59	109.58
1	d2	54	THR	N-CA-CB	5.44	117.89	110.01
1	d4	101	GLY	CA-C-N	5.44	127.57	120.28
1	d4	101	GLY	C-N-CA	5.44	127.57	120.28
1	da	125	PRO	N-CA-CB	-5.44	97.54	103.25
1	dc	141	ILE	O-C-N	5.44	127.14	121.87
1	dd	48	THR	N-CA-C	5.44	118.03	110.20
1	dh	212	GLU	CA-C-N	5.44	128.01	120.29
1	dh	212	GLU	C-N-CA	5.44	128.01	120.29
1	1k	71	GLU	CB-CG-CD	5.44	121.84	112.60
1	dE	221	VAL	N-CA-C	-5.44	104.68	112.35
1	dR	42	ALA	CA-C-N	5.44	127.57	120.28
1	dR	42	ALA	C-N-CA	5.44	127.57	120.28
1	e4	100	ARG	CB-CA-C	5.44	123.74	111.78
1	e4	154	ARG	NE-CZ-NH2	-5.44	114.31	119.20
1	e9	137	GLY	O-C-N	5.44	127.46	122.19
1	eh	199	LYS	CA-C-N	5.44	127.57	120.28
1	eh	199	LYS	C-N-CA	5.44	127.57	120.28
1	ek	88	ALA	CB-CA-C	5.44	119.82	110.79
1	en	113	GLU	N-CA-C	5.44	117.21	111.28
1	1r	68	MET	N-CA-C	5.44	117.91	111.33
1	eS	24	VAL	N-CA-C	5.44	116.07	110.36
1	eT	165	VAL	CA-CB-CG1	-5.44	101.16	110.40
1	f0	139	ASN	OD1-CG-ND2	5.44	128.04	122.60
1	f4	33	SER	CA-C-O	-5.44	115.61	120.56
1	f5	36	VAL	CA-C-N	5.44	123.67	120.24
1	f5	36	VAL	C-N-CA	5.44	123.67	120.24
1	f8	127	GLY	CA-C-O	5.44	126.99	120.90
1	a	168	PHE	O-C-N	-5.44	115.95	122.15
1	i	63	GLN	CG-CD-NE2	5.44	124.56	116.40
1	j	199	LYS	N-CA-CB	-5.44	102.13	110.12
1	o	176	GLN	CA-C-O	5.44	125.35	119.15
1	x	178	SER	CA-C-N	5.44	128.11	120.28
1	x	178	SER	C-N-CA	5.44	128.11	120.28
1	A	152	ASP	O-C-N	-5.44	115.71	122.83
1	G	74	ASN	CA-CB-CG	5.44	118.04	112.60
1	K	16	SER	N-CA-C	5.44	117.43	109.71
1	g8	134	ILE	CA-C-N	5.44	129.06	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g8	134	ILE	C-N-CA	5.44	129.06	120.47
1	gf	114	GLN	CA-C-N	5.44	128.14	120.42
1	gf	114	GLN	C-N-CA	5.44	128.14	120.42
1	gg	110	THR	CB-CA-C	5.44	119.54	109.54
1	gG	183	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	gQ	109	SER	CA-CB-OG	5.44	121.97	111.10
1	h4	116	GLY	CA-C-N	5.44	127.56	120.28
1	h4	116	GLY	C-N-CA	5.44	127.56	120.28
1	he	126	VAL	CA-C-O	5.44	126.60	120.95
1	he	195	ASN	N-CA-C	5.44	116.54	109.64
1	hi	32	PHE	CA-C-O	5.44	126.95	120.70
1	hL	197	ASP	CA-CB-CG	-5.44	107.16	112.60
1	i9	58	THR	CA-C-N	5.44	129.16	121.66
1	i9	58	THR	C-N-CA	5.44	129.16	121.66
1	ij	141	ILE	CA-C-O	-5.44	114.75	120.57
1	il	175	GLU	N-CA-C	5.44	117.90	110.24
1	iN	199	LYS	CG-CD-CE	5.44	123.80	111.30
1	jo	53	ASN	CB-CG-ND2	5.44	124.55	116.40
1	jA	107	THR	N-CA-C	-5.44	105.25	111.07
1	jG	213	GLU	CA-C-N	5.44	127.83	120.38
1	jG	213	GLU	C-N-CA	5.44	127.83	120.38
1	k5	100	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	kn	182	LYS	CA-C-O	5.44	126.31	120.55
1	kA	21	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	kF	60	GLY	CA-C-N	5.44	128.73	121.01
1	kF	60	GLY	C-N-CA	5.44	128.73	121.01
1	kF	154	ARG	NE-CZ-NH1	-5.44	116.06	121.50
1	24	106	GLY	CA-C-O	5.44	124.80	119.04
1	l2	40	PHE	CA-C-O	5.44	126.18	120.42
1	lB	84	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	lG	135	ILE	N-CA-C	5.44	116.17	110.62
1	lJ	200	THR	N-CA-CB	5.44	118.04	109.94
1	lL	116	GLY	CA-C-N	5.44	128.57	120.31
1	lL	116	GLY	C-N-CA	5.44	128.57	120.31
1	lN	196	PRO	N-CA-C	5.44	120.69	113.57
1	2k	149	SER	O-C-N	-5.44	116.68	123.04
1	2p	53	ASN	CB-CG-ND2	5.44	124.55	116.40
1	2q	19	THR	CA-C-O	-5.44	114.79	120.55
1	2C	135	ILE	N-CA-CB	5.44	117.93	110.54
1	2U	85	PRO	CB-CA-C	5.44	118.46	111.56
1	37	114	GLN	CA-C-N	5.44	127.41	120.56
1	37	114	GLN	C-N-CA	5.44	127.41	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3i	51	ASP	CA-CB-CG	-5.44	107.16	112.60
1	3B	22	ALA	N-CA-C	5.44	117.20	111.28
1	3P	106	GLY	N-CA-C	5.44	122.61	114.95
1	4b	1	PRO	CA-N-CD	-5.44	104.39	112.00
1	4u	21	ASN	CA-CB-CG	-5.44	107.16	112.60
1	4J	144	MET	CB-CA-C	-5.44	101.77	110.79
1	5f	20	LEU	O-C-N	-5.44	116.36	122.12
1	5A	44	SER	O-C-N	-5.44	115.38	122.39
1	5O	63	GLN	CA-C-N	5.44	127.56	120.28
1	5O	63	GLN	C-N-CA	5.44	127.56	120.28
1	6q	119	THR	N-CA-CB	5.44	119.16	110.73
1	6t	55	MET	N-CA-C	5.44	116.89	111.07
1	6z	154	ARG	CA-C-N	5.44	129.27	121.50
1	6z	154	ARG	C-N-CA	5.44	129.27	121.50
1	6C	204	ALA	CA-C-N	5.44	127.51	120.44
1	6C	204	ALA	C-N-CA	5.44	127.51	120.44
1	6I	46	GLY	CA-C-O	5.44	125.82	119.19
1	6O	159	GLU	O-C-N	-5.44	115.70	121.30
1	7J	131	LYS	O-C-N	-5.44	116.36	122.12
1	82	159	GLU	CA-C-N	5.44	126.64	119.84
1	82	159	GLU	C-N-CA	5.44	126.64	119.84
1	84	69	LEU	CB-CA-C	5.44	119.42	110.88
1	87	143	ARG	CA-C-N	5.44	127.51	120.44
1	87	143	ARG	C-N-CA	5.44	127.51	120.44
1	8j	2	ILE	O-C-N	-5.44	115.81	122.61
1	8k	84	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	8U	196	PRO	N-CA-CB	5.44	108.96	103.25
1	8V	77	ALA	CA-C-N	5.44	127.51	120.44
1	8V	77	ALA	C-N-CA	5.44	127.51	120.44
1	8X	214	MET	CG-SD-CE	5.44	112.86	100.90
1	96	226	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	9c	162	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	9n	96	MET	CA-C-N	5.44	128.96	120.75
1	9n	96	MET	C-N-CA	5.44	128.96	120.75
1	9v	11	VAL	O-C-N	-5.44	116.31	122.72
1	9z	190	LEU	CA-C-N	5.44	127.91	120.46
1	9z	190	LEU	C-N-CA	5.44	127.91	120.46
1	9A	203	LYS	O-C-N	-5.44	115.58	122.27
1	9B	120	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	a2	87	HIS	N-CA-C	5.44	117.91	110.24
1	ae	195	ASN	OD1-CG-ND2	5.44	128.04	122.60
1	ag	5	ASN	N-CA-C	5.44	116.05	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	67	GLN	N-CA-C	5.44	116.89	111.07
1	az	19	THR	CB-CA-C	5.44	120.09	110.85
1	aV	69	LEU	CA-C-N	5.44	127.56	120.28
1	aV	69	LEU	C-N-CA	5.44	127.56	120.28
1	b3	46	GLY	CA-C-N	5.44	128.56	120.95
1	b3	46	GLY	C-N-CA	5.44	128.56	120.95
1	18	100	ARG	NE-CZ-NH1	5.44	126.94	121.50
1	bB	156	GLY	CA-C-O	-5.44	113.75	121.52
1	bP	209	ALA	N-CA-C	5.44	118.11	110.23
1	1b	169	TYR	O-C-N	-5.44	116.36	122.12
1	cJ	120	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	cP	53	ASN	CA-C-N	5.44	127.56	120.28
1	cP	53	ASN	C-N-CA	5.44	127.56	120.28
1	cY	59	VAL	O-C-N	-5.44	116.56	121.89
1	d1	86	VAL	N-CA-C	-5.44	100.54	108.97
1	en	107	THR	O-C-N	-5.44	115.80	122.11
1	eE	100	ARG	O-C-N	-5.44	115.46	122.20
1	eI	32	PHE	CA-CB-CG	-5.44	108.36	113.80
1	f5	197	ASP	CA-C-N	5.44	127.56	120.28
1	f5	197	ASP	C-N-CA	5.44	127.56	120.28
1	f7	193	ASN	OD1-CG-ND2	-5.44	117.16	122.60
1	fm	84	HIS	ND1-CE1-NE2	5.44	113.84	108.40
1	fq	36	VAL	CA-C-N	5.44	125.65	120.43
1	fq	36	VAL	C-N-CA	5.44	125.65	120.43
1	fy	103	ASP	CA-C-N	5.44	127.91	120.46
1	fy	103	ASP	C-N-CA	5.44	127.91	120.46
1	1y	77	ALA	CA-C-N	5.44	127.83	120.44
1	1y	77	ALA	C-N-CA	5.44	127.83	120.44
1	fE	23	TRP	CG-CD2-CE3	-5.44	128.46	133.90
1	fI	151	LEU	N-CA-C	5.44	119.63	112.89
1	1z	166	ASP	O-C-N	-5.44	116.47	122.07
1	1z	191	VAL	CA-C-O	5.44	125.29	119.91
1	g7	171	THR	CA-C-N	5.44	127.83	120.38
1	g7	171	THR	C-N-CA	5.44	127.83	120.38
1	0	125	PRO	CA-C-N	5.44	127.61	120.60
1	0	125	PRO	C-N-CA	5.44	127.61	120.60
1	g	166	ASP	CA-CB-CG	5.44	118.04	112.60
1	B	13	GLN	CB-CA-C	5.44	118.51	110.14
1	D	94	GLY	O-C-N	-5.44	115.71	122.34
1	M	203	LYS	N-CA-C	5.44	119.17	112.54
1	T	92	GLU	CA-C-N	5.44	125.43	119.89
1	T	92	GLU	C-N-CA	5.44	125.43	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gp	131	LYS	O-C-N	-5.43	116.36	122.12
1	1D	170	LYS	CA-C-N	5.43	128.01	120.29
1	1D	170	LYS	C-N-CA	5.43	128.01	120.29
1	gA	185	MET	CG-SD-CE	-5.43	88.94	100.90
1	gD	195	ASN	O-C-N	-5.43	115.34	121.43
1	gT	29	GLU	N-CA-C	5.43	119.97	113.23
1	h1	64	ALA	N-CA-C	5.43	117.63	111.11
1	h2	202	LEU	CA-C-N	5.43	127.88	120.54
1	h2	202	LEU	C-N-CA	5.43	127.88	120.54
1	h2	230	VAL	CA-CB-CG1	5.43	119.64	110.40
1	1H	32	PHE	CA-C-O	5.43	126.39	120.58
1	hc	139	ASN	CA-CB-CG	5.43	118.03	112.60
1	hc	166	ASP	N-CA-C	5.43	117.63	111.11
1	hg	161	PHE	N-CA-CB	5.43	119.67	110.49
1	hh	45	GLU	CA-C-O	5.43	127.11	120.92
1	hl	58	THR	CA-CB-CG2	5.43	119.74	110.50
1	ho	74	ASN	CB-CG-OD1	5.43	131.67	120.80
1	hs	62	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	hx	157	PRO	N-CA-CB	5.43	108.96	103.25
1	hz	27	VAL	N-CA-C	5.43	115.64	110.53
1	hG	117	TRP	CE2-CD2-CE3	5.43	124.23	118.80
1	hI	201	ILE	N-CA-CB	5.43	116.91	110.55
1	il	214	MET	CB-CG-SD	5.43	129.00	112.70
1	iD	162	ARG	N-CA-C	5.43	117.63	111.11
1	iH	17	PRO	N-CA-CB	5.43	108.96	103.25
1	iV	96	MET	N-CA-C	5.43	118.11	110.23
1	iW	26	VAL	N-CA-CB	5.43	116.91	110.55
1	iX	119	THR	CA-CB-OG1	5.43	117.75	109.60
1	jg	124	ILE	N-CA-CB	-5.43	104.55	111.23
1	jh	210	THR	CA-C-N	5.43	127.56	120.28
1	jh	210	THR	C-N-CA	5.43	127.56	120.28
1	ji	148	THR	N-CA-C	5.43	116.53	108.60
1	jx	35	GLU	CA-C-O	5.43	126.11	119.05
1	jy	219	GLN	CA-C-O	5.43	126.47	120.71
1	ke	36	VAL	N-CA-C	5.43	116.81	110.62
1	ki	86	VAL	O-C-N	-5.43	117.20	123.07
1	kk	42	ALA	O-C-N	-5.43	115.96	122.15
1	km	198	CYS	N-CA-C	5.43	117.96	111.71
1	kq	53	ASN	CA-CB-CG	5.43	118.03	112.60
1	kA	175	GLU	N-CA-C	5.43	117.74	110.35
1	kC	125	PRO	CB-CA-C	5.43	120.53	111.56
1	kE	84	HIS	CE1-NE2-CD2	-5.43	103.56	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	208	ALA	O-C-N	-5.43	115.38	122.39
1	kO	138	LEU	N-CA-CB	5.43	118.11	110.12
1	kR	56	LEU	CA-C-O	5.43	126.06	119.38
1	kS	171	THR	CA-C-N	5.43	127.51	120.44
1	kS	171	THR	C-N-CA	5.43	127.51	120.44
1	l4	210	THR	O-C-N	-5.43	116.09	123.10
1	l5	120	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	l6	12	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	li	68	MET	N-CA-C	5.43	117.28	111.36
1	ll	200	THR	CA-CB-CG2	5.43	119.74	110.50
1	lr	178	SER	CA-CB-OG	5.43	121.97	111.10
1	lt	12	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	lv	178	SER	N-CA-C	5.43	117.55	110.43
1	lC	40	PHE	CA-CB-CG	-5.43	108.37	113.80
1	2a	87	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	2l	12	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	2y	111	LEU	N-CA-C	5.43	117.63	111.11
1	2z	21	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	2D	199	LYS	CA-C-O	-5.43	114.66	120.42
1	2H	130	TYR	N-CA-C	5.43	117.20	111.28
1	2S	14	ALA	N-CA-C	5.43	118.35	110.42
1	32	106	GLY	CA-C-N	5.43	128.57	120.31
1	32	106	GLY	C-N-CA	5.43	128.57	120.31
1	34	175	GLU	N-CA-C	5.43	117.70	110.53
1	3n	86	VAL	CA-C-N	5.43	128.56	120.90
1	3n	86	VAL	C-N-CA	5.43	128.56	120.90
1	3q	144	MET	O-C-N	-5.43	115.95	122.15
1	3G	163	ASP	CA-C-O	-5.43	114.66	120.42
1	3N	84	HIS	CB-CG-ND1	5.43	130.85	122.70
1	3P	23	TRP	N-CA-C	5.43	116.89	111.07
1	3P	124	ILE	CA-C-O	-5.43	115.12	119.25
1	4f	26	VAL	CA-CB-CG1	5.43	119.64	110.40
1	4k	221	VAL	CA-CB-CG1	5.43	119.64	110.40
1	4t	128	GLU	N-CA-C	5.43	117.20	111.28
1	4B	163	ASP	CA-C-O	5.43	126.18	120.42
1	4G	2	ILE	CA-C-N	5.43	130.26	123.14
1	4G	2	ILE	C-N-CA	5.43	130.26	123.14
1	51	27	VAL	CA-C-N	5.43	127.50	120.44
1	51	27	VAL	C-N-CA	5.43	127.50	120.44
1	5d	53	ASN	N-CA-C	5.43	117.63	111.11
1	5d	92	GLU	N-CA-C	5.43	116.73	109.83
1	5l	200	THR	N-CA-CB	5.43	118.59	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	179	GLN	O-C-N	-5.43	116.44	122.09
1	5I	177	ALA	N-CA-CB	-5.43	102.59	110.36
1	61	95	GLN	N-CA-C	5.43	117.09	110.41
1	6g	45	GLU	CG-CD-OE2	-5.43	105.90	118.40
1	6t	150	ILE	N-CA-CB	5.43	117.93	110.54
1	6v	183	ASN	N-CA-C	5.43	119.08	112.23
1	6W	26	VAL	N-CA-C	5.43	115.64	110.42
1	7d	82	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	7h	154	ARG	CG-CD-NE	-5.43	100.05	112.00
1	7M	170	LYS	CA-C-O	5.43	126.18	120.42
1	7Z	139	ASN	CB-CG-ND2	5.43	124.55	116.40
1	8d	136	LEU	CA-C-N	5.43	126.01	119.98
1	8d	136	LEU	C-N-CA	5.43	126.01	119.98
1	8m	159	GLU	O-C-N	5.43	127.57	121.32
1	8q	135	ILE	O-C-N	-5.43	116.60	121.87
1	8C	34	PRO	N-CA-C	5.43	123.67	112.47
1	8Q	142	VAL	N-CA-C	5.43	116.16	110.62
1	9a	112	GLN	N-CA-C	5.43	119.17	112.54
1	9e	85	PRO	N-CA-C	5.43	120.12	111.26
1	9h	33	SER	CA-C-O	-5.43	114.68	120.28
1	9i	79	GLU	CA-C-N	5.43	129.83	121.19
1	9i	79	GLU	C-N-CA	5.43	129.83	121.19
1	9w	115	ILE	N-CA-C	5.43	117.84	111.05
1	9E	190	LEU	CA-C-O	5.43	126.53	120.82
1	9E	221	VAL	N-CA-C	-5.43	100.59	108.36
1	9G	189	LEU	CB-CA-C	5.43	121.10	110.67
1	9K	196	PRO	N-CA-C	5.43	123.67	112.47
1	9M	87	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	a6	165	VAL	CB-CA-C	-5.43	104.80	112.14
1	aa	50	GLN	N-CA-C	5.43	117.20	111.28
1	ak	62	HIS	ND1-CG-CD2	5.43	111.53	106.10
1	ap	9	GLN	N-CA-C	-5.43	100.48	108.79
1	as	32	PHE	CA-CB-CG	-5.43	108.36	113.80
1	aB	161	PHE	N-CA-C	5.43	117.91	111.33
1	aE	171	THR	CA-C-N	5.43	128.01	120.29
1	aE	171	THR	C-N-CA	5.43	128.01	120.29
1	aG	123	PRO	O-C-N	-5.43	115.30	122.64
1	aI	165	VAL	N-CA-C	5.43	115.64	110.42
1	14	179	GLN	N-CA-C	5.43	117.20	111.28
1	aY	35	GLU	O-C-N	5.43	127.88	122.12
1	b3	180	GLU	N-CA-CB	5.43	117.95	110.07
1	ba	38	PRO	CB-CA-C	-5.43	102.59	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	be	179	GLN	N-CA-CB	5.43	117.89	110.01
1	bD	9	GLN	O-C-N	-5.43	116.86	123.27
1	bJ	4	GLN	OE1-CD-NE2	5.43	128.03	122.60
1	bK	174	ALA	N-CA-C	5.43	119.63	112.89
1	bV	13	GLN	OE1-CD-NE2	5.43	128.03	122.60
1	bV	20	LEU	CA-C-N	5.43	128.01	120.29
1	bV	20	LEU	C-N-CA	5.43	128.01	120.29
1	c5	162	ARG	N-CA-C	5.43	117.20	111.28
1	c8	192	GLN	CG-CD-OE1	5.43	131.67	120.80
1	cb	142	VAL	CA-CB-CG1	5.43	119.64	110.40
1	cj	147	PRO	CA-C-N	5.43	130.13	122.09
1	cj	147	PRO	C-N-CA	5.43	130.13	122.09
1	cn	110	THR	O-C-N	-5.43	116.12	123.19
1	cp	142	VAL	CA-CB-CG1	5.43	119.64	110.40
1	cz	96	MET	O-C-N	-5.43	116.82	122.96
1	cB	121	ASN	O-C-N	-5.43	114.55	121.29
1	cF	52	LEU	CA-C-N	5.43	127.56	120.28
1	cF	52	LEU	C-N-CA	5.43	127.56	120.28
1	1g	176	GLN	CB-CA-C	-5.43	100.42	109.55
1	cQ	156	GLY	O-C-N	-5.43	116.33	121.77
1	cY	226	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	dp	65	ALA	CA-C-O	-5.43	114.79	120.55
1	dt	164	TYR	N-CA-C	-5.43	106.66	113.72
1	dw	45	GLU	CA-C-N	5.43	132.06	121.41
1	dw	45	GLU	C-N-CA	5.43	132.06	121.41
1	dQ	30	LYS	CA-C-O	5.43	125.79	119.32
1	dV	82	ARG	O-C-N	-5.43	115.08	122.36
1	e0	31	ALA	CA-C-O	-5.43	113.06	120.83
1	e2	70	LYS	O-C-N	-5.43	116.47	122.07
1	e5	8	GLY	O-C-N	5.43	127.93	122.77
1	ea	154	ARG	O-C-N	-5.43	116.11	122.96
1	1p	63	GLN	N-CA-C	5.43	118.38	111.69
1	ee	9	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	1q	185	MET	O-C-N	-5.43	116.44	122.09
1	eB	154	ARG	N-CA-CB	5.43	119.98	111.56
1	eC	29	GLU	N-CA-CB	-5.43	102.19	110.07
1	eE	130	TYR	CD1-CG-CD2	-5.43	109.95	118.10
1	eJ	217	ALA	CA-C-N	5.43	131.79	123.47
1	eJ	217	ALA	C-N-CA	5.43	131.79	123.47
1	eX	172	LEU	CB-CA-C	-5.43	100.58	110.63
1	1u	124	ILE	N-CA-CB	-5.43	103.64	110.33
1	f8	67	GLN	N-CA-C	5.43	117.28	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fh	48	THR	O-C-N	-5.43	115.55	121.53
1	fm	36	VAL	CA-C-N	5.43	123.66	120.24
1	fm	36	VAL	C-N-CA	5.43	123.66	120.24
1	fA	61	GLY	O-C-N	-5.43	116.46	122.60
1	fF	80	TRP	CB-CG-CD2	5.43	134.41	126.80
1	fK	92	GLU	CB-CA-C	5.43	118.01	109.37
1	fR	170	LYS	O-C-N	-5.43	115.58	122.27
1	1A	63	GLN	CA-C-O	5.43	126.05	119.31
1	g0	47	ALA	N-CA-C	5.43	117.58	109.59
1	g0	191	VAL	O-C-N	-5.43	116.25	121.90
1	g2	225	GLY	O-C-N	-5.43	116.46	122.60
1	1B	139	ASN	CA-C-N	5.43	127.50	120.44
1	1B	139	ASN	C-N-CA	5.43	127.50	120.44
1	c	201	ILE	CB-CA-C	-5.43	104.80	112.14
1	i	162	ARG	CG-CD-NE	-5.43	100.05	112.00
1	n	188	THR	CA-C-O	-5.43	115.11	120.82
1	q	136	LEU	O-C-N	-5.43	116.36	122.12
1	B	132	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	g8	47	ALA	CA-C-O	-5.43	115.21	121.19
1	ga	86	VAL	CA-CB-CG1	5.43	119.64	110.40
1	ge	81	ASP	CA-C-O	5.43	126.24	120.10
1	gk	207	PRO	N-CA-CB	5.43	108.62	103.19
1	gE	139	ASN	N-CA-C	5.43	117.90	111.33
1	gJ	168	PHE	O-C-N	-5.43	116.36	122.12
1	gS	224	PRO	CA-C-N	5.43	126.93	120.14
1	gS	224	PRO	C-N-CA	5.43	126.93	120.14
1	gW	144	MET	CA-C-N	5.43	127.56	120.28
1	gW	144	MET	C-N-CA	5.43	127.56	120.28
1	h7	209	ALA	CA-C-O	5.43	127.31	121.55
1	he	79	GLU	O-C-N	5.43	127.88	122.12
1	hh	34	PRO	CA-C-N	5.43	131.92	121.54
1	hh	34	PRO	C-N-CA	5.43	131.92	121.54
1	hk	77	ALA	CA-C-N	5.43	127.87	120.54
1	hk	77	ALA	C-N-CA	5.43	127.87	120.54
1	hD	68	MET	O-C-N	-5.43	116.36	122.12
1	hK	156	GLY	O-C-N	-5.43	116.34	121.77
1	hN	176	GLN	N-CA-C	5.43	122.37	110.80
1	hR	129	ILE	CA-C-N	-5.43	113.00	120.28
1	hR	129	ILE	C-N-CA	-5.43	113.00	120.28
1	1N	142	VAL	CA-C-N	5.43	127.50	120.44
1	1N	142	VAL	C-N-CA	5.43	127.50	120.44
1	ic	148	THR	O-C-N	-5.43	115.42	122.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	87	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	ix	228	ALA	N-CA-CB	-5.43	102.35	110.17
1	iB	113	GLU	O-C-N	-5.43	115.96	122.15
1	iJ	148	THR	CA-C-O	5.43	126.52	120.43
1	iZ	129	ILE	N-CA-C	5.43	115.64	110.42
1	iZ	203	LYS	N-CA-C	5.43	117.96	111.71
1	jb	124	ILE	CA-C-O	-5.43	115.31	119.98
1	jh	123	PRO	CA-C-N	-5.43	118.68	122.59
1	jh	123	PRO	C-N-CA	-5.43	118.68	122.59
1	jj	191	VAL	N-CA-C	5.43	115.64	110.42
1	jx	113	GLU	CA-C-O	5.43	126.52	120.82
1	jz	180	GLU	O-C-N	-5.43	116.36	122.12
1	jI	192	GLN	CA-C-O	5.43	124.78	118.97
1	jW	143	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	k0	209	ALA	O-C-N	-5.43	116.83	123.19
1	k4	148	THR	O-C-N	-5.43	116.13	123.19
1	20	161	PHE	CB-CA-C	5.43	119.56	110.92
1	ka	113	GLU	N-CA-C	5.43	117.20	111.28
1	kn	113	GLU	CA-C-O	5.43	126.53	120.82
1	kq	151	LEU	CA-C-O	5.43	126.06	119.38
1	kw	189	LEU	O-C-N	-5.43	115.86	122.11
1	kE	34	PRO	N-CA-C	5.43	120.90	113.84
1	kE	200	THR	N-CA-C	5.43	117.96	111.71
1	kH	133	TRP	CB-CG-CD1	5.43	135.05	126.90
1	kL	138	LEU	CA-C-O	-5.43	114.79	120.55
1	kO	180	GLU	N-CA-C	5.43	117.20	111.28
1	l2	116	GLY	CA-C-N	5.43	127.56	120.28
1	l2	116	GLY	C-N-CA	5.43	127.56	120.28
1	lb	214	MET	CA-C-N	5.43	131.10	120.99
1	lb	214	MET	C-N-CA	5.43	131.10	120.99
1	lf	102	SER	O-C-N	-5.43	115.86	122.22
1	ll	176	GLN	N-CA-CB	-5.43	103.38	110.88
1	lr	135	ILE	N-CA-C	5.43	120.64	109.34
1	28	160	PRO	CA-C-O	-5.43	115.26	121.56
1	28	184	TRP	CD2-CE3-CZ3	5.43	125.66	118.60
1	28	190	LEU	CA-C-O	-5.43	115.11	120.82
1	lw	199	LYS	N-CA-C	5.43	117.20	111.28
1	lF	159	GLU	CA-C-N	-5.43	114.75	120.94
1	lF	159	GLU	C-N-CA	-5.43	114.75	120.94
1	2e	47	ALA	CA-C-N	5.43	128.94	120.68
1	2e	47	ALA	C-N-CA	5.43	128.94	120.68
1	2y	144	MET	N-CA-C	5.43	117.20	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2D	1	PRO	CA-C-N	5.43	129.85	122.90
1	2D	1	PRO	C-N-CA	5.43	129.85	122.90
1	2D	213	GLU	CA-C-N	5.43	127.56	120.28
1	2D	213	GLU	C-N-CA	5.43	127.56	120.28
1	2E	195	ASN	CA-CB-CG	-5.43	107.17	112.60
1	2L	189	LEU	O-C-N	-5.43	116.36	122.12
1	3k	102	SER	CA-C-N	5.43	127.56	120.28
1	3k	102	SER	C-N-CA	5.43	127.56	120.28
1	3p	117	TRP	N-CA-C	5.43	117.20	111.28
1	3q	185	MET	N-CA-C	5.43	117.20	111.28
1	42	65	ALA	N-CA-CB	-5.43	102.13	110.12
1	4c	13	GLN	O-C-N	-5.43	115.95	123.12
1	4f	26	VAL	N-CA-C	5.43	116.16	110.62
1	4j	20	LEU	CA-C-O	5.43	126.53	120.82
1	4p	146	SER	CA-C-O	-5.43	114.37	119.80
1	4x	179	GLN	CA-C-N	5.43	127.50	120.44
1	4x	179	GLN	C-N-CA	5.43	127.50	120.44
1	4I	86	VAL	N-CA-C	5.43	115.81	107.77
1	4J	162	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	4O	31	ALA	CA-C-O	5.43	126.53	120.82
1	4U	195	ASN	O-C-N	-5.43	115.70	121.30
1	51	32	PHE	CA-CB-CG	-5.43	108.37	113.80
1	55	94	GLY	CA-C-O	5.43	125.02	119.10
1	57	8	GLY	CA-C-O	5.43	125.04	119.01
1	57	120	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	58	221	VAL	N-CA-CB	-5.43	106.03	112.39
1	5i	81	ASP	N-CA-C	5.43	117.20	111.28
1	5r	51	ASP	N-CA-C	5.43	116.88	111.07
1	5A	148	THR	N-CA-CB	5.43	121.00	111.55
1	5B	47	ALA	N-CA-C	5.43	118.78	110.20
1	5P	66	MET	CG-SD-CE	-5.43	88.95	100.90
1	5W	68	MET	CG-SD-CE	-5.43	88.95	100.90
1	6d	180	GLU	N-CA-C	5.43	116.88	111.07
1	6f	164	TYR	N-CA-C	5.43	117.28	111.36
1	6m	119	THR	N-CA-CB	5.43	118.89	110.80
1	6p	80	TRP	N-CA-C	-5.43	104.39	111.02
1	6t	106	GLY	CA-C-N	5.43	127.56	120.28
1	6t	106	GLY	C-N-CA	5.43	127.56	120.28
1	6u	194	ALA	N-CA-C	5.43	117.70	110.53
1	6D	123	PRO	CA-C-O	-5.43	115.22	121.36
1	6E	119	THR	CA-C-N	5.43	128.59	120.87
1	6E	119	THR	C-N-CA	5.43	128.59	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6R	40	PHE	CA-C-O	5.43	126.18	120.42
1	76	165	VAL	N-CA-C	5.43	116.06	110.36
1	7b	40	PHE	CA-C-N	5.43	127.56	120.28
1	7b	40	PHE	C-N-CA	5.43	127.56	120.28
1	7g	21	ASN	OD1-CG-ND2	5.43	128.03	122.60
1	7A	103	ASP	CA-C-O	5.43	126.31	120.55
1	7F	169	TYR	N-CA-C	5.43	117.20	111.28
1	7N	18	ARG	CA-C-O	5.43	126.52	120.82
1	7N	60	GLY	O-C-N	-5.43	115.64	122.70
1	7Q	113	GLU	CA-C-N	5.43	129.87	120.58
1	7Q	113	GLU	C-N-CA	5.43	129.87	120.58
1	7T	7	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	7T	212	GLU	O-C-N	-5.43	115.59	122.27
1	8d	107	THR	N-CA-CB	5.43	119.45	110.33
1	8g	100	ARG	NE-CZ-NH1	-5.43	116.07	121.50
1	8o	49	PRO	CB-CA-C	5.43	120.52	111.56
1	8o	188	THR	CA-C-N	5.43	128.97	120.82
1	8o	188	THR	C-N-CA	5.43	128.97	120.82
1	8q	116	GLY	CA-C-O	-5.43	115.15	120.75
1	8t	163	ASP	CA-CB-CG	-5.43	107.17	112.60
1	8z	18	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	8B	171	THR	N-CA-C	5.43	116.88	111.07
1	8J	38	PRO	N-CA-CB	5.43	109.53	103.44
1	8Q	36	VAL	N-CA-CB	5.43	116.91	110.55
1	98	128	GLU	CB-CA-C	-5.43	102.28	110.92
1	9f	150	ILE	N-CA-C	5.43	116.81	110.62
1	9j	5	ASN	N-CA-C	5.43	117.55	107.99
1	9o	33	SER	CA-C-O	-5.43	115.04	120.64
1	9r	138	LEU	N-CA-CB	5.43	118.03	109.94
1	9u	35	GLU	CA-C-N	5.43	127.90	120.46
1	9u	35	GLU	C-N-CA	5.43	127.90	120.46
1	9y	226	HIS	CA-C-N	5.43	128.59	120.87
1	9y	226	HIS	C-N-CA	5.43	128.59	120.87
1	9C	16	SER	N-CA-CB	5.43	117.94	110.01
1	9F	181	VAL	CB-CA-C	-5.43	104.44	111.88
1	9H	192	GLN	CB-CA-C	5.43	119.41	110.88
1	9O	186	THR	CA-CB-CG2	5.43	119.73	110.50
1	9Y	203	LYS	N-CA-CB	5.43	118.21	110.06
1	9Z	220	GLY	CA-C-N	5.43	131.39	122.64
1	9Z	220	GLY	C-N-CA	5.43	131.39	122.64
1	af	62	HIS	ND1-CG-CD2	5.43	111.53	106.10
1	ak	23	TRP	CD2-CE2-CZ2	-5.43	116.97	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	an	116	GLY	CA-C-O	5.43	126.65	121.05
1	ar	158	LYS	O-C-N	-5.43	115.82	122.34
1	as	177	ALA	N-CA-CB	-5.43	101.31	110.49
1	aW	182	LYS	CA-C-O	5.43	126.50	120.63
1	b2	73	ILE	O-C-N	-5.43	116.51	121.94
1	b5	215	MET	N-CA-C	5.43	117.96	111.71
1	b8	24	VAL	N-CA-C	5.43	116.16	110.62
1	bq	184	TRP	CB-CG-CD2	5.43	134.41	126.80
1	bt	131	LYS	N-CA-C	5.43	117.90	111.33
1	bv	120	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	bw	131	LYS	O-C-N	-5.43	116.01	122.20
1	19	148	THR	O-C-N	-5.43	116.76	123.33
1	19	164	TYR	N-CA-C	5.43	117.20	111.28
1	bF	174	ALA	N-CA-C	5.43	117.28	111.36
1	bG	23	TRP	CB-CG-CD2	5.43	134.41	126.80
1	bH	203	LYS	N-CA-C	5.43	117.20	111.28
1	bS	57	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	bU	69	LEU	N-CA-C	5.43	117.20	111.28
1	c1	187	GLU	O-C-N	-5.43	116.22	122.09
1	c5	10	MET	CG-SD-CE	-5.43	88.95	100.90
1	cg	173	ARG	O-C-N	-5.43	116.36	122.12
1	cl	85	PRO	CA-C-O	-5.43	115.34	121.43
1	cr	182	LYS	CA-C-O	5.43	126.71	120.90
1	cx	173	ARG	NH1-CZ-NH2	-5.43	112.24	119.30
1	cC	50	GLN	O-C-N	5.43	128.34	122.15
1	cF	114	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	cG	43	LEU	CA-C-O	5.43	126.31	120.55
1	cL	87	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	cO	16	SER	N-CA-CB	5.43	117.94	110.01
1	cO	164	TYR	CA-C-O	-5.43	114.79	120.55
1	cR	58	THR	N-CA-C	5.43	119.63	112.89
1	cT	228	ALA	O-C-N	-5.43	116.13	122.81
1	db	178	SER	N-CA-C	5.43	117.90	110.24
1	1j	184	TRP	CA-C-O	5.43	126.31	120.55
1	dh	7	GLN	CA-C-N	5.43	131.27	121.92
1	dh	7	GLN	C-N-CA	5.43	131.27	121.92
1	dm	173	ARG	O-C-N	-5.43	115.96	122.15
1	1k	18	ARG	CA-C-N	5.43	128.00	120.29
1	1k	18	ARG	C-N-CA	5.43	128.00	120.29
1	du	45	GLU	N-CA-CB	5.43	119.30	110.17
1	dv	184	TRP	N-CA-C	5.43	117.20	111.28
1	dw	118	MET	N-CA-C	5.43	119.97	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	18	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	dC	25	LYS	N-CA-C	5.43	117.90	111.33
1	dC	52	LEU	N-CA-CB	5.43	117.89	110.01
1	dE	218	CYS	N-CA-CB	5.43	119.67	110.49
1	e7	66	MET	O-C-N	-5.43	116.47	122.07
1	ea	50	GLN	CA-C-N	5.43	127.50	120.44
1	ea	50	GLN	C-N-CA	5.43	127.50	120.44
1	eb	25	LYS	N-CA-C	5.43	118.12	111.82
1	ey	162	ARG	N-CA-C	5.43	117.90	111.33
1	eL	23	TRP	CA-C-O	5.43	126.31	120.55
1	1u	18	ARG	CG-CD-NE	-5.43	100.05	112.00
1	fn	54	THR	CA-C-N	5.43	128.34	120.79
1	fn	54	THR	C-N-CA	5.43	128.34	120.79
1	fv	103	ASP	CA-CB-CG	5.43	118.03	112.60
1	fw	105	ALA	CA-C-N	5.43	129.71	120.91
1	fw	105	ALA	C-N-CA	5.43	129.71	120.91
1	fy	198	CYS	CA-C-N	5.43	127.56	120.28
1	fy	198	CYS	C-N-CA	5.43	127.56	120.28
1	fA	18	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	fB	57	ASN	CA-C-O	5.43	126.00	119.43
1	fC	124	ILE	N-CA-CB	5.43	117.93	111.08
1	fF	159	GLU	N-CA-C	5.43	117.58	110.08
1	fO	43	LEU	O-C-N	-5.43	115.59	122.27
1	fO	230	VAL	N-CA-CB	-5.43	103.31	112.44
1	1A	36	VAL	CA-C-N	5.43	124.68	120.33
1	1A	36	VAL	C-N-CA	5.43	124.68	120.33
1	g0	199	LYS	CA-C-O	-5.43	114.79	120.55
1	g4	114	GLN	N-CA-C	5.43	116.88	111.07
1	g7	148	THR	CA-CB-OG1	5.43	117.75	109.60
1	b	90	PRO	CA-C-N	5.43	127.41	120.56
1	b	90	PRO	C-N-CA	5.43	127.41	120.56
1	k	58	THR	N-CA-CB	5.43	118.20	110.16
1	w	138	LEU	CA-C-N	5.43	127.56	120.28
1	w	138	LEU	C-N-CA	5.43	127.56	120.28
1	x	76	GLU	CA-C-O	5.43	125.96	119.60
1	B	188	THR	O-C-N	-5.43	116.47	122.07
1	F	140	LYS	N-CA-CB	5.43	117.89	110.01
1	H	37	ILE	N-CA-CB	-5.43	107.08	110.50
1	U	5	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	gb	137	GLY	O-C-N	-5.43	116.97	122.18
1	gd	119	THR	CA-CB-OG1	5.43	117.75	109.60
1	gr	214	MET	CG-SD-CE	-5.43	88.95	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	119	THR	N-CA-C	-5.43	106.70	113.38
1	gw	164	TYR	N-CA-CB	-5.43	102.14	110.01
1	gC	179	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	gC	226	HIS	O-C-N	-5.43	116.88	123.13
1	gQ	22	ALA	CA-C-N	5.43	127.50	120.44
1	gQ	22	ALA	C-N-CA	5.43	127.50	120.44
1	gQ	126	VAL	CA-C-N	-5.43	110.77	121.41
1	gQ	126	VAL	C-N-CA	-5.43	110.77	121.41
1	gR	36	VAL	CB-CA-C	-5.43	104.72	112.22
1	gR	91	ILE	O-C-N	-5.43	117.53	123.18
1	gY	219	GLN	O-C-N	-5.43	115.37	122.59
1	h0	50	GLN	CA-C-O	5.43	126.31	120.55
1	hk	49	PRO	CA-C-N	5.43	127.56	120.28
1	hk	49	PRO	C-N-CA	5.43	127.56	120.28
1	1J	17	PRO	CA-C-N	5.43	128.00	120.29
1	1J	17	PRO	C-N-CA	5.43	128.00	120.29
1	hv	141	ILE	N-CA-CB	5.43	117.93	110.54
1	ih	180	GLU	O-C-N	-5.43	115.96	122.15
1	ix	171	THR	O-C-N	-5.43	116.48	122.07
1	j8	182	LYS	CA-C-N	5.43	127.56	120.28
1	j8	182	LYS	C-N-CA	5.43	127.56	120.28
1	jB	9	GLN	N-CA-C	-5.43	100.05	108.90
1	jD	204	ALA	CB-CA-C	-5.43	101.78	110.79
1	jY	68	MET	CB-CA-C	5.43	119.81	110.79
1	k3	63	GLN	O-C-N	-5.43	115.38	122.39
1	ka	103	ASP	CA-C-O	-5.43	113.38	119.79
1	kn	10	MET	O-C-N	-5.43	116.25	122.93
1	kp	110	THR	O-C-N	-5.43	116.66	122.85
1	kU	166	ASP	CA-C-O	5.43	126.52	120.82
1	l3	134	ILE	N-CA-CB	-5.43	103.15	110.54
1	la	213	GLU	CB-CA-C	5.43	119.79	110.01
1	li	15	ILE	O-C-N	-5.43	117.13	122.67
1	lv	204	ALA	N-CA-C	5.43	117.20	111.28
1	lz	178	SER	CA-C-O	5.43	127.17	121.19
1	lM	10	MET	N-CA-CB	5.43	119.67	110.49
1	2l	169	TYR	N-CA-C	5.43	119.07	112.23
1	2o	97	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	2z	55	MET	O-C-N	-5.43	116.22	122.09
1	2z	132	ARG	CA-C-N	5.43	127.56	120.28
1	2z	132	ARG	C-N-CA	5.43	127.56	120.28
1	2C	169	TYR	CA-C-O	-5.43	114.79	120.55
1	2L	208	ALA	N-CA-C	5.43	117.95	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2S	213	GLU	CA-C-N	5.43	127.56	120.28
1	2S	213	GLU	C-N-CA	5.43	127.56	120.28
1	3f	172	LEU	CA-C-N	5.43	128.97	120.82
1	3f	172	LEU	C-N-CA	5.43	128.97	120.82
1	3u	182	LYS	CA-C-N	5.43	128.56	120.31
1	3u	182	LYS	C-N-CA	5.43	128.56	120.31
1	48	33	SER	CA-CB-OG	5.43	121.96	111.10
1	4i	132	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	4v	58	THR	N-CA-C	5.43	118.70	111.75
1	4y	100	ARG	O-C-N	-5.43	115.97	122.65
1	5i	188	THR	OG1-CB-CG2	-5.43	98.44	109.30
1	5x	48	THR	CA-C-N	5.43	125.10	119.56
1	5x	48	THR	C-N-CA	5.43	125.10	119.56
1	5C	161	PHE	N-CA-C	5.43	117.20	111.28
1	5U	120	HIS	CA-C-O	-5.43	115.89	122.03
1	6a	197	ASP	CA-CB-CG	5.43	118.03	112.60
1	6B	149	SER	CA-C-N	5.43	127.90	120.46
1	6B	149	SER	C-N-CA	5.43	127.90	120.46
1	6T	140	LYS	CA-C-O	5.43	126.18	120.42
1	7i	124	ILE	O-C-N	-5.43	117.22	121.46
1	8c	86	VAL	CA-C-N	5.43	131.50	121.94
1	8c	86	VAL	C-N-CA	5.43	131.50	121.94
1	8v	154	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	8C	112	GLN	CA-C-N	5.43	128.00	120.29
1	8C	112	GLN	C-N-CA	5.43	128.00	120.29
1	8F	16	SER	CA-C-N	5.43	124.95	119.19
1	8F	16	SER	C-N-CA	5.43	124.95	119.19
1	8N	182	LYS	O-C-N	-5.43	116.48	122.07
1	8W	144	MET	CB-CA-C	-5.43	101.77	110.79
1	95	209	ALA	O-C-N	-5.43	115.63	123.07
1	9b	12	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	a0	209	ALA	CA-C-O	-5.43	115.02	121.16
1	10	58	THR	O-C-N	-5.43	115.59	122.27
1	ah	152	ASP	CB-CA-C	-5.43	101.38	110.56
1	ao	173	ARG	N-CA-C	5.43	117.20	111.28
1	aF	209	ALA	CA-C-N	5.43	128.56	120.90
1	aF	209	ALA	C-N-CA	5.43	128.56	120.90
1	aV	49	PRO	O-C-N	-5.43	115.21	122.22
1	17	53	ASN	N-CA-C	5.43	117.90	111.33
1	18	21	ASN	N-CA-CB	5.43	118.20	110.16
1	18	144	MET	O-C-N	-5.43	116.36	122.12
1	bD	55	MET	N-CA-CB	5.43	118.03	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bH	120	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	c5	100	ARG	O-C-N	-5.43	116.33	122.68
1	cj	114	GLN	O-C-N	5.43	127.74	122.09
1	cB	84	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	cE	227	LYS	N-CA-C	-5.43	100.67	108.60
1	cM	50	GLN	CA-C-O	-5.43	115.12	120.82
1	cM	83	LEU	CA-C-O	5.43	126.31	120.55
1	cU	56	LEU	O-C-N	-5.43	115.59	122.27
1	d1	170	LYS	N-CA-C	5.43	117.28	111.36
1	dc	132	ARG	CA-C-N	5.43	127.56	120.28
1	dc	132	ARG	C-N-CA	5.43	127.56	120.28
1	dc	135	ILE	O-C-N	-5.43	116.59	121.91
1	dd	73	ILE	CA-C-O	5.43	126.93	121.17
1	dy	126	VAL	CA-C-O	-5.43	115.62	121.27
1	dG	65	ALA	CA-C-O	5.43	126.31	120.55
1	dZ	25	LYS	O-C-N	-5.43	116.36	122.12
1	e9	149	SER	N-CA-CB	5.43	119.67	110.49
1	eE	75	GLU	O-C-N	-5.43	116.36	122.12
1	eG	22	ALA	CA-C-N	5.43	127.87	120.54
1	eG	22	ALA	C-N-CA	5.43	127.87	120.54
1	1u	169	TYR	CA-C-N	5.43	127.56	120.28
1	1u	169	TYR	C-N-CA	5.43	127.56	120.28
1	f1	139	ASN	N-CA-C	5.43	117.20	111.28
1	f6	159	GLU	N-CA-C	5.43	117.46	109.42
1	1v	5	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	ff	50	GLN	CA-C-N	5.43	127.56	120.28
1	ff	50	GLN	C-N-CA	5.43	127.56	120.28
1	fI	146	SER	CA-C-N	5.43	125.41	120.03
1	fI	146	SER	C-N-CA	5.43	125.41	120.03
1	1	185	MET	CA-C-O	-5.43	115.09	120.90
1	A	92	GLU	CA-C-O	-5.43	114.37	119.91
1	D	87	HIS	CA-CB-CG	-5.43	108.37	113.80
1	M	130	TYR	CA-C-N	5.43	127.82	120.38
1	M	130	TYR	C-N-CA	5.43	127.82	120.38
1	g8	179	GLN	CB-CG-CD	5.43	121.83	112.60
1	gn	136	LEU	CA-C-O	5.43	126.17	120.42
1	gq	110	THR	CA-CB-OG1	5.43	117.75	109.60
1	gA	222	GLY	N-CA-C	5.43	119.72	112.77
1	gH	226	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	gS	155	GLN	O-C-N	-5.43	117.13	123.27
1	gU	169	TYR	CA-CB-CG	-5.43	104.13	113.90
1	h5	120	HIS	CB-CG-ND1	5.43	130.84	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	168	PHE	N-CA-C	5.43	116.88	111.07
1	1I	127	GLY	O-C-N	-5.43	116.97	122.18
1	1I	208	ALA	O-C-N	-5.43	115.67	122.35
1	1I	211	LEU	CA-C-O	-5.43	114.66	120.42
1	hz	64	ALA	CA-C-N	5.43	128.34	120.79
1	hz	64	ALA	C-N-CA	5.43	128.34	120.79
1	hC	206	GLY	N-CA-C	5.43	123.42	112.34
1	hE	229	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	hI	41	SER	CA-C-N	5.43	127.56	120.28
1	hI	41	SER	C-N-CA	5.43	127.56	120.28
1	1L	18	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	hK	62	HIS	CB-CG-ND1	-5.43	114.56	122.70
1	hS	154	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	i9	181	VAL	CB-CA-C	5.43	118.92	111.97
1	ie	133	TRP	CA-C-N	5.43	127.90	120.46
1	ie	133	TRP	C-N-CA	5.43	127.90	120.46
1	if	120	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	ih	4	GLN	N-CA-C	5.43	122.37	110.80
1	ik	113	GLU	CA-C-O	5.43	126.20	119.79
1	il	186	THR	N-CA-C	5.43	116.88	111.07
1	iv	144	MET	CG-SD-CE	-5.43	88.95	100.90
1	iF	141	ILE	O-C-N	5.43	127.14	121.87
1	iK	56	LEU	N-CA-C	5.43	117.90	111.33
1	iN	143	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	1U	193	ASN	N-CA-C	-5.43	105.88	112.88
1	jj	226	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	jn	12	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	jp	84	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	jx	143	ARG	CA-C-O	5.43	126.52	120.82
1	jF	105	ALA	N-CA-C	5.43	119.77	113.20
1	jF	192	GLN	N-CA-C	5.43	118.12	111.82
1	jG	45	GLU	CB-CG-CD	5.43	121.83	112.60
1	jN	142	VAL	CA-C-N	5.43	127.83	120.44
1	jN	142	VAL	C-N-CA	5.43	127.83	120.44
1	jU	207	PRO	N-CA-C	5.43	120.11	111.26
1	ka	230	VAL	CB-CA-C	-5.43	103.64	111.19
1	kk	69	LEU	N-CA-C	5.43	117.62	111.11
1	kk	191	VAL	N-CA-C	-5.43	105.21	110.42
1	kl	84	HIS	CA-C-N	5.43	126.63	119.84
1	kl	84	HIS	C-N-CA	5.43	126.63	119.84
1	kn	12	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	kp	41	SER	CA-C-N	5.43	128.10	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kp	41	SER	C-N-CA	5.43	128.10	120.28
1	kz	55	MET	CB-CA-C	-5.43	101.78	110.79
1	kC	226	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	kD	14	ALA	CA-C-N	5.43	127.98	120.49
1	kD	14	ALA	C-N-CA	5.43	127.98	120.49
1	23	82	ARG	N-CA-C	5.43	117.20	111.28
1	kT	159	GLU	O-C-N	-5.43	116.36	121.35
1	kY	50	GLN	CA-C-N	5.43	127.56	120.28
1	kY	50	GLN	C-N-CA	5.43	127.56	120.28
1	27	188	THR	CA-C-N	5.43	127.87	120.54
1	27	188	THR	C-N-CA	5.43	127.87	120.54
1	ln	193	ASN	N-CA-CB	-5.43	102.63	110.56
1	lq	221	VAL	N-CA-C	5.43	116.16	110.62
1	ly	204	ALA	CA-C-N	5.43	127.56	120.28
1	ly	204	ALA	C-N-CA	5.43	127.56	120.28
1	lB	28	GLU	N-CA-CB	5.43	118.10	110.12
1	29	55	MET	CG-SD-CE	-5.43	88.95	100.90
1	29	223	GLY	CA-C-N	5.43	126.63	119.84
1	29	223	GLY	C-N-CA	5.43	126.63	119.84
1	2a	25	LYS	N-CA-C	5.43	116.88	111.07
1	2c	67	GLN	CA-C-N	5.43	128.00	120.29
1	2c	67	GLN	C-N-CA	5.43	128.00	120.29
1	2h	113	GLU	N-CA-CB	5.43	117.88	110.01
1	2j	135	ILE	O-C-N	-5.43	116.57	121.89
1	2k	210	THR	CA-C-N	5.43	128.56	120.31
1	2k	210	THR	C-N-CA	5.43	128.56	120.31
1	2x	154	ARG	NE-CZ-NH2	-5.43	114.31	119.20
1	2I	98	GLU	CA-C-N	5.43	125.69	119.83
1	2I	98	GLU	C-N-CA	5.43	125.69	119.83
1	2K	222	GLY	CA-C-N	5.43	130.39	121.87
1	2K	222	GLY	C-N-CA	5.43	130.39	121.87
1	2O	48	THR	N-CA-C	5.43	117.57	110.08
1	2S	75	GLU	CB-CA-C	-5.43	101.78	110.79
1	30	216	THR	CA-C-O	5.43	126.00	119.59
1	3m	87	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	3E	160	PRO	CB-CA-C	5.43	118.09	110.98
1	3P	163	ASP	CA-C-N	5.43	127.50	120.44
1	3P	163	ASP	C-N-CA	5.43	127.50	120.44
1	4h	194	ALA	CA-C-N	5.43	128.59	120.83
1	4h	194	ALA	C-N-CA	5.43	128.59	120.83
1	4A	96	MET	CA-C-N	5.43	128.42	120.71
1	4A	96	MET	C-N-CA	5.43	128.42	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4B	219	GLN	CG-CD-NE2	5.43	124.54	116.40
1	4D	4	GLN	N-CA-C	5.43	118.10	109.96
1	4G	190	LEU	CA-C-N	5.43	127.40	120.56
1	4G	190	LEU	C-N-CA	5.43	127.40	120.56
1	4J	120	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	4Q	193	ASN	CA-CB-CG	-5.43	107.17	112.60
1	4U	174	ALA	N-CA-CB	-5.43	102.14	110.12
1	4X	28	GLU	O-C-N	-5.43	116.36	122.12
1	59	66	MET	CA-C-N	5.43	128.00	120.29
1	59	66	MET	C-N-CA	5.43	128.00	120.29
1	5c	181	VAL	CA-C-N	5.43	127.56	120.28
1	5c	181	VAL	C-N-CA	5.43	127.56	120.28
1	5d	19	THR	CA-CB-CG2	5.43	119.73	110.50
1	5n	212	GLU	CA-C-N	5.43	128.00	120.29
1	5n	212	GLU	C-N-CA	5.43	128.00	120.29
1	5p	167	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	5w	37	ILE	O-C-N	-5.43	114.91	121.10
1	5y	12	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	5N	53	ASN	CA-CB-CG	-5.43	107.17	112.60
1	5Q	65	ALA	N-CA-CB	-5.43	102.20	110.07
1	5R	186	THR	CA-C-N	5.43	127.55	120.28
1	5R	186	THR	C-N-CA	5.43	127.55	120.28
1	5V	202	LEU	N-CA-C	5.43	117.20	111.28
1	68	177	ALA	CA-C-O	-5.43	115.64	121.56
1	6C	134	ILE	CB-CA-C	5.43	118.83	111.88
1	6C	195	ASN	CA-C-N	5.43	126.63	119.84
1	6C	195	ASN	C-N-CA	5.43	126.63	119.84
1	6F	48	THR	CA-C-N	5.43	126.63	119.84
1	6F	48	THR	C-N-CA	5.43	126.63	119.84
1	6I	200	THR	N-CA-C	5.43	117.20	111.28
1	6J	185	MET	N-CA-C	5.43	117.20	111.28
1	6L	13	GLN	CB-CA-C	-5.43	98.95	109.76
1	6M	144	MET	N-CA-CB	5.43	118.10	110.12
1	6Q	80	TRP	N-CA-C	5.43	116.88	111.07
1	6W	42	ALA	O-C-N	-5.43	115.06	122.33
1	6Z	11	VAL	CA-CB-CG2	-5.43	101.17	110.40
1	76	15	ILE	CA-C-O	5.43	127.43	121.13
1	7j	188	THR	CA-C-N	5.43	128.56	120.31
1	7j	188	THR	C-N-CA	5.43	128.56	120.31
1	7j	228	ALA	CA-C-N	5.43	131.65	122.26
1	7j	228	ALA	C-N-CA	5.43	131.65	122.26
1	7o	75	GLU	CB-CG-CD	5.43	121.83	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	40	PHE	CA-C-O	5.43	126.52	120.82
1	7y	48	THR	CA-C-O	-5.43	114.78	120.70
1	7V	211	LEU	CA-C-O	5.43	126.04	119.31
1	82	144	MET	CA-C-O	5.43	126.21	119.97
1	84	177	ALA	CA-C-N	5.43	129.47	120.94
1	84	177	ALA	C-N-CA	5.43	129.47	120.94
1	85	164	TYR	CA-C-O	5.43	126.71	120.90
1	87	55	MET	N-CA-C	5.43	116.88	111.07
1	8b	52	LEU	CA-C-N	5.43	127.82	120.38
1	8b	52	LEU	C-N-CA	5.43	127.82	120.38
1	8f	6	LEU	CA-C-O	5.43	128.28	120.51
1	8i	139	ASN	N-CA-C	5.43	117.20	111.28
1	8j	97	ARG	CD-NE-CZ	5.43	132.00	124.40
1	8p	110	THR	CA-CB-OG1	5.43	117.75	109.60
1	8q	219	GLN	O-C-N	-5.43	116.12	122.96
1	8u	134	ILE	O-C-N	-5.43	116.60	121.87
1	8v	159	GLU	N-CA-C	5.43	117.57	110.08
1	8F	113	GLU	CB-CG-CD	5.43	121.83	112.60
1	9o	172	LEU	CA-C-N	5.43	127.56	120.28
1	9o	172	LEU	C-N-CA	5.43	127.56	120.28
1	9t	97	ARG	O-C-N	-5.43	115.87	122.82
1	9w	104	ILE	CA-C-N	5.43	129.79	120.72
1	9w	104	ILE	C-N-CA	5.43	129.79	120.72
1	9F	88	ALA	CA-C-N	5.43	130.40	121.87
1	9F	88	ALA	C-N-CA	5.43	130.40	121.87
1	9M	226	HIS	CA-C-O	5.43	127.74	121.28
1	a0	230	VAL	CA-CB-CG2	-5.43	101.17	110.40
1	a1	162	ARG	CA-C-N	5.43	127.50	120.44
1	a1	162	ARG	C-N-CA	5.43	127.50	120.44
1	a5	37	ILE	CA-CB-CG2	5.43	119.73	110.50
1	a8	115	ILE	CA-C-O	5.43	126.92	121.17
1	ag	155	GLN	O-C-N	-5.43	116.27	122.89
1	ah	119	THR	N-CA-C	-5.43	106.53	112.72
1	an	95	GLN	N-CA-CB	5.43	118.03	109.83
1	aq	129	ILE	N-CA-CB	5.43	116.90	110.55
1	au	158	LYS	N-CA-C	-5.43	105.47	113.61
1	aA	172	LEU	N-CA-C	5.43	117.95	111.71
1	b1	154	ARG	NE-CZ-NH2	5.43	124.09	119.20
1	17	217	ALA	CA-C-N	5.43	130.56	122.74
1	17	217	ALA	C-N-CA	5.43	130.56	122.74
1	bi	44	SER	N-CA-C	5.43	118.91	112.72
1	bm	188	THR	CA-C-N	5.43	127.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bm	188	THR	C-N-CA	5.43	127.56	120.28
1	bn	212	GLU	N-CA-C	5.43	117.62	111.11
1	bp	130	TYR	CG-CD2-CE2	-5.43	113.05	121.20
1	bu	86	VAL	CA-C-O	5.43	127.43	121.13
1	bv	98	GLU	CA-C-N	5.43	125.69	119.83
1	bv	98	GLU	C-N-CA	5.43	125.69	119.83
1	bw	194	ALA	CA-C-N	5.43	128.03	120.65
1	bw	194	ALA	C-N-CA	5.43	128.03	120.65
1	bR	74	ASN	O-C-N	-5.43	116.36	122.12
1	bS	84	HIS	CB-CG-CD2	5.43	138.26	131.20
1	c7	15	ILE	CA-C-O	5.43	127.57	120.78
1	cd	105	ALA	N-CA-CB	-5.43	102.63	110.56
1	1d	202	LEU	N-CA-CB	5.43	118.10	110.12
1	cg	79	GLU	CB-CG-CD	-5.43	103.37	112.60
1	cs	165	VAL	N-CA-C	5.43	116.16	110.62
1	1f	165	VAL	CA-C-N	5.43	127.50	120.44
1	1f	165	VAL	C-N-CA	5.43	127.50	120.44
1	cE	13	GLN	CG-CD-NE2	-5.43	108.25	116.40
1	cE	21	ASN	CB-CG-ND2	5.43	124.55	116.40
1	cH	1	PRO	CA-C-N	5.43	128.46	120.91
1	cH	1	PRO	C-N-CA	5.43	128.46	120.91
1	cK	46	GLY	O-C-N	-5.43	115.64	122.70
1	d2	205	LEU	CA-C-N	-5.43	113.35	121.87
1	d2	205	LEU	C-N-CA	-5.43	113.35	121.87
1	d9	26	VAL	N-CA-C	5.43	115.57	110.30
1	d9	134	ILE	N-CA-CB	5.43	117.92	110.54
1	dc	23	TRP	CB-CG-CD2	5.43	134.40	126.80
1	df	126	VAL	N-CA-C	5.43	116.16	110.62
1	dg	167	ARG	CA-C-N	5.43	128.00	120.29
1	dg	167	ARG	C-N-CA	5.43	128.00	120.29
1	dj	19	THR	CA-CB-CG2	5.43	119.73	110.50
1	dj	208	ALA	N-CA-CB	-5.43	102.46	110.49
1	dm	73	ILE	N-CA-C	-5.43	104.70	112.35
1	dv	147	PRO	CA-C-N	5.43	128.82	121.05
1	dv	147	PRO	C-N-CA	5.43	128.82	121.05
1	dx	157	PRO	N-CA-C	5.43	120.68	113.57
1	dD	199	LYS	CA-C-O	-5.43	114.67	120.42
1	e2	26	VAL	CG1-CB-CG2	-5.43	98.86	110.80
1	ea	102	SER	CA-C-N	5.43	128.56	120.31
1	ea	102	SER	C-N-CA	5.43	128.56	120.31
1	em	74	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	eu	73	ILE	O-C-N	-5.43	116.24	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ez	201	ILE	CB-CA-C	-5.43	105.02	111.97
1	eD	189	LEU	CB-CA-C	-5.43	101.56	110.08
1	eG	100	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	eY	164	TYR	CA-CB-CG	5.43	123.67	113.90
1	f9	27	VAL	N-CA-CB	5.43	116.90	110.55
1	1v	213	GLU	O-C-N	-5.43	116.36	122.12
1	fh	74	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	fp	95	GLN	N-CA-CB	-5.43	102.06	110.04
1	fA	96	MET	CA-C-N	-5.43	113.00	120.71
1	fA	96	MET	C-N-CA	-5.43	113.00	120.71
1	fG	130	TYR	CA-C-N	5.43	127.50	120.44
1	fG	130	TYR	C-N-CA	5.43	127.50	120.44
1	fR	187	GLU	CA-C-O	5.43	126.18	120.42
1	g7	119	THR	CA-C-O	5.43	126.52	119.95
1	s	222	GLY	CA-C-N	5.43	130.39	121.87
1	s	222	GLY	C-N-CA	5.43	130.39	121.87
1	4	219	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	9	172	LEU	O-C-N	-5.43	116.36	122.12
1	gr	176	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	hq	109	SER	CA-C-N	5.43	130.85	120.97
1	hq	109	SER	C-N-CA	5.43	130.85	120.97
1	ht	226	HIS	N-CA-CB	5.43	118.75	110.44
1	hx	146	SER	CA-C-N	5.43	126.62	119.84
1	hx	146	SER	C-N-CA	5.43	126.62	119.84
1	hA	220	GLY	CA-C-N	5.43	130.82	122.68
1	hA	220	GLY	C-N-CA	5.43	130.82	122.68
1	hK	24	VAL	CA-C-O	5.43	126.92	121.17
1	hR	56	LEU	CB-CA-C	5.43	119.80	110.79
1	ib	110	THR	O-C-N	-5.43	116.13	122.81
1	ii	228	ALA	N-CA-CB	5.43	118.36	109.95
1	iq	82	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	iI	30	LYS	O-C-N	-5.43	115.67	122.35
1	iM	13	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	iP	161	PHE	CA-C-N	5.43	127.55	120.28
1	iP	161	PHE	C-N-CA	5.43	127.55	120.28
1	ja	152	ASP	CB-CA-C	5.43	119.80	110.79
1	jO	120	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	k6	144	MET	N-CA-CB	5.43	118.58	110.22
1	kD	196	PRO	CA-C-N	5.43	127.55	120.28
1	kD	196	PRO	C-N-CA	5.43	127.55	120.28
1	kY	119	THR	CA-CB-OG1	5.43	117.74	109.60
1	lo	75	GLU	N-CA-C	5.43	116.88	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lI	90	PRO	CA-C-N	5.43	128.68	120.75
1	lI	90	PRO	C-N-CA	5.43	128.68	120.75
1	2a	82	ARG	CA-C-N	5.43	129.86	120.58
1	2a	82	ARG	C-N-CA	5.43	129.86	120.58
1	2f	59	VAL	O-C-N	-5.43	115.78	122.57
1	2h	120	HIS	CG-CD2-NE2	5.43	112.63	107.20
1	2i	132	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	2l	183	ASN	CA-CB-CG	-5.43	107.17	112.60
1	2y	123	PRO	N-CA-CB	-5.43	98.63	103.35
1	2z	5	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	2I	125	PRO	N-CA-CB	-5.43	98.21	102.28
1	2J	87	HIS	N-CA-C	5.43	117.30	110.24
1	2L	95	GLN	CG-CD-OE1	5.43	131.66	120.80
1	37	13	GLN	CB-CA-C	-5.43	99.78	109.71
1	3M	117	TRP	O-C-N	-5.43	115.16	122.43
1	3N	91	ILE	CA-C-N	5.43	127.53	120.26
1	3N	91	ILE	C-N-CA	5.43	127.53	120.26
1	3N	107	THR	O-C-N	5.43	127.89	122.03
1	3Y	142	VAL	O-C-N	5.43	127.14	121.87
1	43	69	LEU	CA-C-N	5.43	127.55	120.28
1	43	69	LEU	C-N-CA	5.43	127.55	120.28
1	4f	99	PRO	N-CA-C	5.43	120.11	111.26
1	4t	3	VAL	N-CA-C	-5.43	100.02	108.81
1	4u	162	ARG	N-CA-C	-5.43	107.67	114.56
1	4H	41	SER	O-C-N	-5.43	116.37	122.12
1	4H	114	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	57	164	TYR	CB-CA-C	5.43	119.80	110.79
1	5g	177	ALA	N-CA-C	5.43	122.36	110.80
1	5p	49	PRO	CA-C-N	5.43	127.55	120.28
1	5p	49	PRO	C-N-CA	5.43	127.55	120.28
1	5p	176	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	5w	62	HIS	CB-CG-CD2	-5.43	124.14	131.20
1	5J	149	SER	N-CA-C	5.43	117.88	110.55
1	5M	77	ALA	CA-C-N	5.43	127.50	120.44
1	5M	77	ALA	C-N-CA	5.43	127.50	120.44
1	5O	41	SER	CA-C-N	5.43	127.50	120.44
1	5O	41	SER	C-N-CA	5.43	127.50	120.44
1	67	186	THR	CA-CB-OG1	5.43	117.74	109.60
1	6d	188	THR	O-C-N	5.43	127.11	121.79
1	6g	128	GLU	N-CA-CB	5.43	117.88	110.01
1	6l	11	VAL	O-C-N	-5.43	117.40	123.26
1	6F	87	HIS	CE1-NE2-CD2	-5.43	103.57	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	63	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	7a	135	ILE	N-CA-C	-5.43	105.24	110.72
1	7m	133	TRP	CA-C-O	5.43	126.52	120.82
1	7J	62	HIS	CG-ND1-CE1	-5.43	100.07	109.30
1	7W	10	MET	CG-SD-CE	-5.43	88.96	100.90
1	81	138	LEU	O-C-N	5.43	127.87	122.12
1	8g	46	GLY	CA-C-N	5.43	129.46	120.94
1	8g	46	GLY	C-N-CA	5.43	129.46	120.94
1	8k	50	GLN	CB-CG-CD	5.43	121.83	112.60
1	8J	144	MET	CA-C-N	5.43	131.30	122.67
1	8J	144	MET	C-N-CA	5.43	131.30	122.67
1	8X	146	SER	CB-CA-C	-5.43	100.53	109.27
1	94	118	MET	N-CA-C	5.43	117.95	111.71
1	9S	131	LYS	O-C-N	-5.43	116.44	122.09
1	9T	96	MET	CG-SD-CE	5.43	112.84	100.90
1	ae	32	PHE	CA-CB-CG	-5.43	108.37	113.80
1	af	13	GLN	CB-CG-CD	5.43	121.83	112.60
1	al	166	ASP	CA-CB-CG	5.43	118.03	112.60
1	am	204	ALA	N-CA-C	5.43	118.12	111.82
1	av	230	VAL	N-CA-C	5.43	117.04	109.55
1	ax	115	ILE	CB-CA-C	-5.43	104.81	112.14
1	aC	147	PRO	N-CA-CB	-5.43	99.17	102.81
1	aO	160	PRO	CA-C-N	5.43	128.10	120.28
1	aO	160	PRO	C-N-CA	5.43	128.10	120.28
1	aV	154	ARG	O-C-N	-5.43	116.27	122.89
1	b4	114	GLN	N-CA-CB	5.43	117.88	110.01
1	bX	62	HIS	N-CA-C	5.43	118.88	111.39
1	c4	130	TYR	CA-C-N	5.43	127.55	120.28
1	c4	130	TYR	C-N-CA	5.43	127.55	120.28
1	c8	94	GLY	N-CA-C	5.43	122.58	115.47
1	cr	186	THR	O-C-N	-5.43	116.37	122.12
1	cA	35	GLU	O-C-N	-5.43	116.01	122.20
1	cE	207	PRO	CA-C-O	-5.43	112.06	118.90
1	cJ	173	ARG	N-CA-C	5.43	118.12	111.82
1	cU	215	MET	CA-CB-CG	5.43	124.96	114.10
1	d3	54	THR	N-CA-CB	5.43	118.19	110.16
1	db	62	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	dC	224	PRO	N-CA-C	5.43	119.61	111.14
1	dT	33	SER	N-CA-C	5.43	117.88	110.01
1	dX	227	LYS	CA-C-N	5.43	131.91	121.54
1	dX	227	LYS	C-N-CA	5.43	131.91	121.54
1	e4	215	MET	CG-SD-CE	5.43	112.84	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ej	84	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	ex	69	LEU	CD1-CG-CD2	-5.43	98.86	110.80
1	ez	192	GLN	OE1-CD-NE2	5.43	128.03	122.60
1	eB	67	GLN	N-CA-CB	5.43	117.88	110.01
1	eH	20	LEU	CA-C-N	5.43	127.55	120.28
1	eH	20	LEU	C-N-CA	5.43	127.55	120.28
1	eI	216	THR	CA-C-O	5.43	125.89	119.48
1	eK	12	HIS	ND1-CG-CD2	-5.43	100.67	106.10
1	ff	33	SER	O-C-N	-5.43	115.08	121.32
1	fB	91	ILE	CA-C-N	5.43	127.53	120.26
1	fB	91	ILE	C-N-CA	5.43	127.53	120.26
1	fC	53	ASN	CA-C-O	-5.43	114.22	120.24
1	fG	188	THR	CA-C-N	5.43	127.50	120.44
1	fG	188	THR	C-N-CA	5.43	127.50	120.44
1	1z	125	PRO	N-CA-C	-5.43	104.16	113.12
1	fP	2	ILE	N-CA-C	5.43	115.67	107.75
1	fQ	102	SER	N-CA-C	5.43	117.00	111.14
1	g5	230	VAL	N-CA-C	5.43	115.67	107.80
1	g6	114	GLN	CA-C-N	5.43	127.60	120.60
1	g6	114	GLN	C-N-CA	5.43	127.60	120.60
1	c	182	LYS	CA-C-N	5.43	127.55	120.28
1	c	182	LYS	C-N-CA	5.43	127.55	120.28
1	n	166	ASP	CA-CB-CG	5.43	118.03	112.60
1	D	132	ARG	NH1-CZ-NH2	-5.43	112.24	119.30
1	G	58	THR	CA-C-N	5.43	129.40	121.80
1	G	58	THR	C-N-CA	5.43	129.40	121.80
1	X	7	GLN	CB-CG-CD	5.43	121.83	112.60
1	gb	131	LYS	CB-CA-C	5.43	119.49	110.81
1	gf	178	SER	CB-CA-C	5.43	118.73	109.72
1	gk	170	LYS	CA-CB-CG	5.43	124.95	114.10
1	gn	27	VAL	CA-C-N	5.43	128.00	120.29
1	gn	27	VAL	C-N-CA	5.43	128.00	120.29
1	gD	72	THR	O-C-N	-5.43	116.37	122.12
1	gF	200	THR	N-CA-CB	5.43	118.10	110.12
1	gH	76	GLU	CA-C-N	5.43	127.55	120.28
1	gH	76	GLU	C-N-CA	5.43	127.55	120.28
1	gO	72	THR	CA-C-O	5.43	126.23	120.10
1	gW	210	THR	CA-C-N	5.43	127.55	120.28
1	gW	210	THR	C-N-CA	5.43	127.55	120.28
1	gX	86	VAL	O-C-N	-5.43	116.88	122.63
1	h6	128	GLU	CA-C-N	5.43	127.40	120.56
1	h6	128	GLU	C-N-CA	5.43	127.40	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hh	82	ARG	N-CA-C	5.43	117.19	111.28
1	hl	165	VAL	N-CA-C	5.43	115.63	110.42
1	hA	152	ASP	N-CA-CB	-5.43	102.25	111.20
1	hD	132	ARG	CA-C-N	5.43	128.00	120.29
1	hD	132	ARG	C-N-CA	5.43	128.00	120.29
1	hD	177	ALA	CA-C-N	5.43	128.81	121.05
1	hD	177	ALA	C-N-CA	5.43	128.81	121.05
1	hG	55	MET	N-CA-C	5.43	117.00	111.14
1	hI	100	ARG	O-C-N	-5.43	115.97	122.65
1	i0	115	ILE	CA-C-O	5.43	126.59	120.95
1	i1	80	TRP	CB-CA-C	5.43	119.40	110.88
1	ia	162	ARG	NH1-CZ-NH2	5.43	126.35	119.30
1	ii	90	PRO	N-CA-CB	5.43	108.95	103.25
1	in	2	ILE	O-C-N	-5.43	117.40	123.26
1	1P	142	VAL	N-CA-C	5.43	115.63	110.42
1	1Q	115	ILE	CA-C-N	5.43	125.96	119.94
1	1Q	115	ILE	C-N-CA	5.43	125.96	119.94
1	iA	121	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	iC	149	SER	O-C-N	-5.43	116.35	123.02
1	iF	199	LYS	CA-C-N	5.43	127.87	120.54
1	iF	199	LYS	C-N-CA	5.43	127.87	120.54
1	1S	143	ARG	NE-CZ-NH1	-5.43	116.07	121.50
1	iW	179	GLN	CA-C-N	5.43	127.50	120.44
1	iW	179	GLN	C-N-CA	5.43	127.50	120.44
1	j0	56	LEU	N-CA-C	5.43	117.19	111.28
1	j1	187	GLU	O-C-N	5.43	129.28	122.23
1	j6	199	LYS	N-CA-CB	5.43	117.88	110.01
1	jf	71	GLU	O-C-N	-5.43	116.45	122.09
1	jv	51	ASP	CA-CB-CG	-5.43	107.17	112.60
1	jw	53	ASN	CA-CB-CG	-5.43	107.17	112.60
1	jI	105	ALA	CA-C-O	5.43	125.64	119.18
1	jO	160	PRO	N-CA-C	5.43	119.72	111.15
1	jR	156	GLY	CA-C-N	5.43	126.62	119.84
1	jR	156	GLY	C-N-CA	5.43	126.62	119.84
1	k4	125	PRO	CA-C-N	5.43	127.89	120.46
1	k4	125	PRO	C-N-CA	5.43	127.89	120.46
1	20	31	ALA	N-CA-C	5.43	118.14	109.02
1	kf	149	SER	CA-C-N	5.43	128.12	120.42
1	kf	149	SER	C-N-CA	5.43	128.12	120.42
1	kl	3	VAL	CA-C-N	5.43	129.84	122.19
1	kl	3	VAL	C-N-CA	5.43	129.84	122.19
1	kr	211	LEU	N-CA-C	-5.43	105.53	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	178	SER	O-C-N	-5.43	115.37	122.59
1	kM	105	ALA	N-CA-C	5.43	117.89	111.33
1	kU	139	ASN	OD1-CG-ND2	-5.43	117.17	122.60
1	kY	158	LYS	N-CA-CB	-5.43	102.25	111.20
1	kZ	40	PHE	O-C-N	-5.43	116.37	122.12
1	l5	121	ASN	CA-CB-CG	-5.43	107.17	112.60
1	la	22	ALA	N-CA-C	5.43	116.88	111.07
1	lo	164	TYR	N-CA-C	5.43	117.95	111.71
1	lw	93	PRO	CA-N-CD	-5.43	104.40	112.00
1	29	124	ILE	CA-C-O	-5.43	114.41	119.62
1	lG	226	HIS	N-CA-CB	5.43	118.51	109.56
1	lI	16	SER	CA-C-N	5.43	125.25	119.28
1	lI	16	SER	C-N-CA	5.43	125.25	119.28
1	2a	74	ASN	N-CA-CB	5.43	117.88	110.01
1	lN	63	GLN	CA-C-O	-5.43	114.80	120.55
1	lO	16	SER	N-CA-C	5.43	117.30	109.48
1	2c	61	GLY	N-CA-C	5.43	120.55	112.41
1	2e	47	ALA	CB-CA-C	5.43	118.70	109.80
1	2f	99	PRO	O-C-N	-5.43	116.46	123.03
1	2k	32	PHE	N-CA-C	5.43	118.91	112.72
1	2m	5	ASN	O-C-N	-5.43	115.97	122.65
1	2q	80	TRP	CD2-CE2-CZ2	-5.43	116.97	122.40
1	2u	184	TRP	N-CA-CB	5.43	118.03	109.94
1	2v	177	ALA	O-C-N	-5.43	116.61	123.17
1	2D	32	PHE	CB-CA-C	5.43	119.28	110.22
1	2K	82	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	2M	31	ALA	N-CA-C	5.43	119.39	112.34
1	2O	178	SER	N-CA-C	5.43	117.33	110.33
1	2T	68	MET	CA-C-N	5.43	128.00	120.29
1	2T	68	MET	C-N-CA	5.43	128.00	120.29
1	37	20	LEU	CA-C-N	5.43	128.56	120.31
1	37	20	LEU	C-N-CA	5.43	128.56	120.31
1	3b	214	MET	CG-SD-CE	-5.43	88.96	100.90
1	3g	134	ILE	N-CA-C	-5.43	105.24	110.72
1	3h	41	SER	N-CA-CB	5.43	118.03	109.94
1	3q	134	ILE	O-C-N	-5.43	116.59	121.91
1	3r	84	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	3B	36	VAL	CA-C-N	5.43	124.67	120.33
1	3B	36	VAL	C-N-CA	5.43	124.67	120.33
1	3C	19	THR	N-CA-CB	5.43	118.47	110.33
1	3D	141	ILE	O-C-N	-5.43	116.24	121.83
1	3E	227	LYS	N-CA-C	5.43	118.78	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	30	LYS	N-CA-C	5.43	117.04	108.96
1	3S	220	GLY	CA-C-N	5.43	127.98	120.49
1	3S	220	GLY	C-N-CA	5.43	127.98	120.49
1	3Z	21	ASN	CB-CA-C	-5.43	101.46	110.68
1	44	11	VAL	O-C-N	-5.43	117.98	123.19
1	4d	5	ASN	CB-CA-C	-5.43	101.78	110.79
1	4p	151	LEU	N-CA-CB	-5.43	100.89	110.39
1	4A	166	ASP	N-CA-C	5.43	117.19	111.28
1	4D	227	LYS	N-CA-C	5.43	118.31	110.28
1	4K	216	THR	N-CA-CB	5.43	119.53	110.41
1	4Q	174	ALA	N-CA-C	5.43	119.16	112.54
1	4R	25	LYS	O-C-N	5.43	128.57	122.22
1	4V	178	SER	N-CA-C	5.43	117.73	110.35
1	4X	53	ASN	CA-C-N	5.43	127.49	120.44
1	4X	53	ASN	C-N-CA	5.43	127.49	120.44
1	5f	144	MET	CA-C-N	5.43	131.30	122.67
1	5f	144	MET	C-N-CA	5.43	131.30	122.67
1	5n	129	ILE	O-C-N	-5.43	116.59	121.91
1	5u	221	VAL	CA-C-N	5.43	132.04	121.41
1	5u	221	VAL	C-N-CA	5.43	132.04	121.41
1	5v	10	MET	N-CA-C	5.43	122.36	110.80
1	5K	72	THR	N-CA-C	5.43	117.62	111.11
1	5K	144	MET	CA-C-O	-5.43	113.97	120.10
1	5T	159	GLU	CB-CG-CD	-5.43	103.38	112.60
1	6b	95	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	6d	154	ARG	O-C-N	-5.43	116.32	123.16
1	6e	101	GLY	CA-C-O	5.43	126.12	120.80
1	6m	121	ASN	CA-C-O	-5.43	114.34	119.55
1	6m	143	ARG	N-CA-C	5.43	118.12	111.82
1	6q	92	GLU	CA-C-N	5.43	125.42	119.89
1	6q	92	GLU	C-N-CA	5.43	125.42	119.89
1	6s	32	PHE	N-CA-CB	5.43	118.08	109.51
1	6x	143	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	6H	143	ARG	NH1-CZ-NH2	-5.43	112.25	119.30
1	71	161	PHE	N-CA-C	5.43	117.19	111.28
1	72	54	THR	N-CA-CB	5.43	118.03	109.94
1	7k	193	ASN	O-C-N	-5.43	115.62	122.19
1	7l	215	MET	N-CA-C	5.43	117.62	111.11
1	7s	195	ASN	CA-CB-CG	5.43	118.03	112.60
1	7y	170	LYS	CA-C-O	5.43	126.52	120.82
1	7z	77	ALA	CA-C-N	5.43	127.55	120.28
1	7z	77	ALA	C-N-CA	5.43	127.55	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	5	ASN	CB-CA-C	5.43	119.48	110.74
1	7B	129	ILE	N-CA-C	-5.43	105.08	110.62
1	7F	107	THR	CA-C-O	5.43	124.79	118.77
1	7K	103	ASP	O-C-N	-5.43	116.37	122.12
1	7R	155	GLN	O-C-N	-5.43	116.89	123.13
1	7T	96	MET	O-C-N	-5.43	117.03	123.22
1	87	85	PRO	N-CA-CB	5.43	108.16	103.27
1	8o	160	PRO	N-CA-C	5.43	120.11	111.26
1	8r	120	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
1	8T	59	VAL	N-CA-C	5.43	116.70	109.37
1	8W	62	HIS	CB-CG-ND1	-5.43	114.56	122.70
1	8Z	192	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	94	195	ASN	CA-C-N	5.43	125.51	119.32
1	94	195	ASN	C-N-CA	5.43	125.51	119.32
1	95	178	SER	O-C-N	-5.43	115.87	122.82
1	98	51	ASP	CA-C-O	5.43	126.52	120.82
1	9i	180	GLU	CA-C-N	5.43	127.89	120.46
1	9i	180	GLU	C-N-CA	5.43	127.89	120.46
1	9j	144	MET	N-CA-C	5.43	117.62	111.11
1	9q	121	ASN	CB-CA-C	5.43	119.14	110.62
1	9z	9	GLN	CB-CG-CD	5.43	121.83	112.60
1	9B	120	HIS	CA-CB-CG	5.43	119.23	113.80
1	9L	112	GLN	CA-C-N	5.43	127.49	120.44
1	9L	112	GLN	C-N-CA	5.43	127.49	120.44
1	9X	15	ILE	N-CA-C	5.43	116.26	108.93
1	9Z	147	PRO	CA-C-N	5.43	128.55	120.90
1	9Z	147	PRO	C-N-CA	5.43	128.55	120.90
1	a1	206	GLY	O-C-N	-5.43	116.34	121.77
1	ab	57	ASN	CA-C-N	5.43	127.87	120.54
1	ab	57	ASN	C-N-CA	5.43	127.87	120.54
1	ab	214	MET	CA-C-N	5.43	127.55	120.28
1	ab	214	MET	C-N-CA	5.43	127.55	120.28
1	af	150	ILE	O-C-N	-5.43	115.67	121.80
1	ai	176	GLN	N-CA-C	5.43	120.57	113.30
1	av	37	ILE	CA-CB-CG1	5.43	119.62	110.40
1	aC	100	ARG	NE-CZ-NH2	5.43	124.08	119.20
1	aC	109	SER	CA-C-N	5.43	132.71	121.32
1	aC	109	SER	C-N-CA	5.43	132.71	121.32
1	aH	185	MET	N-CA-C	5.43	117.62	111.11
1	aH	202	LEU	CA-C-N	5.43	127.55	120.28
1	aH	202	LEU	C-N-CA	5.43	127.55	120.28
1	aQ	58	THR	CA-C-O	5.43	125.34	119.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aQ	229	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	b6	48	THR	O-C-N	-5.43	115.85	121.60
1	bf	128	GLU	O-C-N	-5.43	116.48	122.07
1	bg	225	GLY	N-CA-C	5.43	118.30	112.33
1	bk	87	HIS	CA-C-O	5.43	126.67	120.54
1	bl	166	ASP	CA-CB-CG	5.43	118.03	112.60
1	bq	13	GLN	O-C-N	-5.43	116.17	123.23
1	bu	9	GLN	O-C-N	-5.43	115.96	123.12
1	bD	62	HIS	ND1-CE1-NE2	5.43	113.83	108.40
1	bV	63	GLN	N-CA-C	5.43	117.00	111.14
1	bX	195	ASN	CA-C-N	5.43	126.62	119.84
1	bX	195	ASN	C-N-CA	5.43	126.62	119.84
1	c6	93	PRO	N-CD-CG	5.43	111.34	103.20
1	cu	199	LYS	CB-CA-C	5.43	119.80	110.79
1	cA	192	GLN	N-CA-C	5.43	117.28	111.36
1	d1	23	TRP	CA-C-N	5.43	127.89	120.46
1	d1	23	TRP	C-N-CA	5.43	127.89	120.46
1	d2	11	VAL	O-C-N	-5.43	117.03	123.05
1	d3	107	THR	CA-CB-OG1	5.43	117.74	109.60
1	di	13	GLN	CG-CD-OE1	-5.43	109.95	120.80
1	1l	165	VAL	O-C-N	-5.43	116.24	121.83
1	dy	111	LEU	CA-C-O	-5.43	114.77	120.63
1	dG	129	ILE	CB-CA-C	-5.43	104.81	112.14
1	dK	23	TRP	CD2-CE2-CZ2	-5.43	116.97	122.40
1	eh	198	CYS	N-CA-C	5.43	117.20	111.28
1	ey	33	SER	CA-C-N	5.43	125.25	119.28
1	ey	33	SER	C-N-CA	5.43	125.25	119.28
1	eA	213	GLU	CA-C-N	5.43	129.86	120.58
1	eA	213	GLU	C-N-CA	5.43	129.86	120.58
1	eF	2	ILE	CA-C-O	5.43	125.75	120.27
1	eH	91	ILE	O-C-N	-5.43	117.01	123.03
1	eJ	193	ASN	CA-CB-CG	-5.43	107.17	112.60
1	1t	164	TYR	CB-CA-C	-5.43	102.36	110.88
1	eV	50	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	eV	72	THR	CB-CA-C	-5.43	100.59	110.63
1	eW	73	ILE	CA-CB-CG1	5.43	119.63	110.40
1	f3	48	THR	CA-CB-OG1	5.43	117.74	109.60
1	1w	54	THR	CB-CA-C	-5.43	100.77	110.70
1	fq	101	GLY	CA-C-N	5.43	127.55	120.28
1	fq	101	GLY	C-N-CA	5.43	127.55	120.28
1	1x	134	ILE	N-CA-C	5.43	115.63	110.42
1	fv	160	PRO	N-CA-CB	5.43	108.95	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fE	185	MET	CG-SD-CE	-5.43	88.96	100.90
1	fI	155	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	fO	147	PRO	N-CA-C	5.43	119.84	111.21
1	fV	27	VAL	CG1-CB-CG2	-5.43	98.86	110.80
1	g1	174	ALA	N-CA-C	5.43	117.19	111.28
1	g4	112	GLN	N-CA-C	5.43	117.19	111.28
1	g4	132	ARG	O-C-N	-5.43	116.37	122.12
1	g4	179	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	1B	107	THR	CA-CB-OG1	5.43	117.74	109.60
1	b	20	LEU	N-CA-C	5.43	117.19	111.28
1	b	49	PRO	CA-C-N	5.43	127.81	120.38
1	b	49	PRO	C-N-CA	5.43	127.81	120.38
1	d	141	ILE	O-C-N	-5.43	116.61	121.87
1	f	187	GLU	CA-C-O	5.43	126.29	120.70
1	g	201	ILE	N-CA-C	5.43	116.06	110.36
1	n	110	THR	CB-CA-C	5.43	119.48	109.71
1	p	179	GLN	OE1-CD-NE2	-5.43	117.17	122.60
1	x	183	ASN	CA-CB-CG	-5.43	107.17	112.60
1	3	54	THR	O-C-N	-5.43	116.37	122.12
1	G	20	LEU	N-CA-C	5.43	116.88	111.07
1	I	88	ALA	O-C-N	-5.43	116.46	122.86
1	O	132	ARG	NE-CZ-NH1	5.43	126.93	121.50
1	gj	84	HIS	CA-C-N	5.42	126.62	119.84
1	gj	84	HIS	C-N-CA	5.42	126.62	119.84
1	gm	25	LYS	CB-CA-C	5.42	119.80	110.79
1	gp	227	LYS	CG-CD-CE	5.42	123.78	111.30
1	gE	130	TYR	CA-C-N	5.42	127.49	120.44
1	gE	130	TYR	C-N-CA	5.42	127.49	120.44
1	gJ	49	PRO	N-CA-C	5.42	123.65	112.47
1	gK	62	HIS	CA-C-O	-5.42	115.25	121.54
1	gS	186	THR	CA-CB-CG2	-5.42	101.28	110.50
1	gX	97	ARG	CA-CB-CG	5.42	124.95	114.10
1	h1	168	PHE	O-C-N	-5.42	116.48	122.07
1	1H	5	ASN	CA-C-N	5.42	127.86	120.54
1	1H	5	ASN	C-N-CA	5.42	127.86	120.54
1	hh	39	MET	O-C-N	-5.42	116.37	122.12
1	hr	86	VAL	N-CA-C	5.42	116.00	108.84
1	hB	14	ALA	N-CA-C	5.42	118.10	110.23
1	i7	96	MET	CG-SD-CE	-5.42	88.97	100.90
1	ij	201	ILE	O-C-N	-5.42	114.68	121.84
1	ik	205	LEU	N-CA-CB	5.42	118.47	110.33
1	in	96	MET	CA-C-N	5.42	128.57	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	96	MET	C-N-CA	5.42	128.57	120.87
1	iu	206	GLY	CA-C-N	5.42	126.62	119.84
1	iu	206	GLY	C-N-CA	5.42	126.62	119.84
1	1Q	149	SER	N-CA-C	-5.42	101.05	109.24
1	iz	82	ARG	CA-C-O	5.42	126.52	120.82
1	iG	87	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	iN	166	ASP	O-C-N	-5.42	116.37	122.12
1	j0	24	VAL	CB-CA-C	5.42	118.91	111.97
1	ja	103	ASP	N-CA-C	5.42	117.19	111.28
1	ji	7	GLN	O-C-N	-5.42	115.80	122.20
1	jp	226	HIS	CB-CG-CD2	-5.42	124.15	131.20
1	ju	181	VAL	CA-C-N	5.42	127.55	120.28
1	ju	181	VAL	C-N-CA	5.42	127.55	120.28
1	jv	93	PRO	CA-C-N	5.42	132.12	121.06
1	jv	93	PRO	C-N-CA	5.42	132.12	121.06
1	jx	5	ASN	CA-C-N	5.42	128.55	120.90
1	jx	5	ASN	C-N-CA	5.42	128.55	120.90
1	jD	52	LEU	CA-C-N	5.42	127.49	120.44
1	jD	52	LEU	C-N-CA	5.42	127.49	120.44
1	jE	184	TRP	N-CA-CB	-5.42	101.87	110.28
1	jN	62	HIS	ND1-CE1-NE2	5.42	113.83	108.40
1	jQ	3	VAL	N-CA-CB	5.42	118.19	111.41
1	jW	62	HIS	ND1-CG-CD2	5.42	111.53	106.10
1	k0	49	PRO	N-CD-CG	5.42	111.34	103.20
1	k4	21	ASN	CA-CB-CG	5.42	118.03	112.60
1	k4	117	TRP	CA-C-O	-5.42	115.12	120.82
1	kc	159	GLU	N-CA-C	5.42	116.91	110.07
1	kl	86	VAL	N-CA-C	5.42	117.01	109.80
1	kq	114	GLN	OE1-CD-NE2	5.42	128.03	122.60
1	kG	84	HIS	O-C-N	-5.42	116.31	121.57
1	kJ	228	ALA	CA-C-O	5.42	128.00	121.65
1	kM	120	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	kN	130	TYR	O-C-N	-5.42	115.18	122.23
1	kS	219	GLN	N-CA-CB	5.42	119.66	110.49
1	kZ	18	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	29	169	TYR	CA-C-O	5.42	126.17	120.42
1	lO	45	GLU	CA-C-N	5.42	130.40	122.10
1	lO	45	GLU	C-N-CA	5.42	130.40	122.10
1	2f	71	GLU	N-CA-C	-5.42	106.17	112.89
1	2j	116	GLY	O-C-N	-5.42	116.97	122.18
1	2H	23	TRP	CA-C-N	5.42	127.39	120.56
1	2H	23	TRP	C-N-CA	5.42	127.39	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2I	25	LYS	CA-C-N	5.42	127.89	120.46
1	2I	25	LYS	C-N-CA	5.42	127.89	120.46
1	2Q	89	GLY	CA-C-N	5.42	126.62	119.84
1	2Q	89	GLY	C-N-CA	5.42	126.62	119.84
1	2Z	44	SER	N-CA-CB	5.42	119.60	110.92
1	36	143	ARG	O-C-N	5.42	127.87	122.12
1	3k	151	LEU	N-CA-CB	-5.42	101.38	110.39
1	3y	92	GLU	CA-C-N	5.42	125.25	119.28
1	3y	92	GLU	C-N-CA	5.42	125.25	119.28
1	3O	67	GLN	CB-CG-CD	5.42	121.82	112.60
1	3S	22	ALA	CA-C-N	5.42	127.49	120.44
1	3S	22	ALA	C-N-CA	5.42	127.49	120.44
1	4a	25	LYS	O-C-N	-5.42	116.37	122.12
1	4b	199	LYS	CA-C-O	-5.42	114.80	120.55
1	4h	88	ALA	O-C-N	-5.42	116.55	123.06
1	4k	93	PRO	N-CA-CB	-5.42	98.39	103.27
1	4q	100	ARG	CA-C-O	-5.42	116.31	122.01
1	4D	47	ALA	N-CA-C	5.42	118.34	110.42
1	4D	82	ARG	CA-C-O	5.42	126.05	119.38
1	4H	119	THR	N-CA-CB	5.42	119.24	110.40
1	4S	195	ASN	CA-C-N	5.42	125.25	119.28
1	4S	195	ASN	C-N-CA	5.42	125.25	119.28
1	4V	195	ASN	CA-CB-CG	5.42	118.02	112.60
1	52	50	GLN	N-CA-C	5.42	116.88	111.07
1	57	69	LEU	N-CA-C	5.42	116.87	111.07
1	5f	46	GLY	CA-C-O	5.42	124.82	118.96
1	5q	40	PHE	O-C-N	-5.42	116.37	122.12
1	5A	48	THR	CA-CB-OG1	5.42	117.74	109.60
1	5H	103	ASP	CA-C-N	5.42	129.65	120.64
1	5H	103	ASP	C-N-CA	5.42	129.65	120.64
1	5Z	112	GLN	N-CA-C	5.42	120.32	111.37
1	60	61	GLY	CA-C-N	5.42	130.27	122.40
1	60	61	GLY	C-N-CA	5.42	130.27	122.40
1	63	129	ILE	N-CA-C	5.42	116.15	110.62
1	64	78	ALA	CA-C-O	-5.42	114.80	120.55
1	6c	59	VAL	CB-CA-C	-5.42	104.73	112.22
1	6f	100	ARG	CA-C-N	5.42	126.11	120.03
1	6f	100	ARG	C-N-CA	5.42	126.11	120.03
1	6j	162	ARG	N-CA-CB	5.42	119.66	110.49
1	6F	128	GLU	N-CA-C	5.42	117.19	111.28
1	6N	133	TRP	CB-CG-CD1	5.42	135.04	126.90
1	6S	67	GLN	OE1-CD-NE2	-5.42	117.17	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	14	ALA	N-CA-C	5.42	118.04	109.96
1	6Z	95	GLN	CG-CD-NE2	5.42	124.53	116.40
1	7a	111	LEU	N-CA-C	5.42	117.19	111.28
1	7a	186	THR	N-CA-CB	5.42	118.69	110.28
1	7d	201	ILE	N-CA-C	5.42	115.63	110.42
1	7e	146	SER	CA-C-N	5.42	126.26	120.13
1	7e	146	SER	C-N-CA	5.42	126.26	120.13
1	7g	82	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	7o	211	LEU	O-C-N	5.42	127.87	122.12
1	7q	80	TRP	CA-C-O	5.42	126.17	120.42
1	7t	5	ASN	CA-CB-CG	-5.42	107.18	112.60
1	7t	162	ARG	NE-CZ-NH1	-5.42	116.08	121.50
1	7D	133	TRP	CD2-CE2-CZ2	-5.42	116.98	122.40
1	7F	65	ALA	O-C-N	-5.42	115.97	122.15
1	7S	65	ALA	CA-C-N	5.42	127.55	120.28
1	7S	65	ALA	C-N-CA	5.42	127.55	120.28
1	7T	122	PRO	N-CA-CB	5.42	108.57	102.60
1	7W	132	ARG	N-CA-CB	5.42	118.09	110.12
1	86	215	MET	N-CA-C	5.42	117.19	111.28
1	87	169	TYR	N-CA-CB	5.42	118.19	110.16
1	88	140	LYS	O-C-N	-5.42	116.45	122.09
1	8c	76	GLU	N-CA-C	5.42	118.11	111.82
1	8j	116	GLY	N-CA-C	5.42	118.79	112.50
1	8w	53	ASN	N-CA-CB	5.42	118.02	109.94
1	8z	111	LEU	CA-C-O	5.42	126.21	119.97
1	8z	134	ILE	CA-C-O	-5.42	115.42	121.17
1	8O	120	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	8X	84	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	99	96	MET	O-C-N	-5.42	116.20	122.87
1	99	143	ARG	CA-C-N	5.42	127.49	120.44
1	99	143	ARG	C-N-CA	5.42	127.49	120.44
1	9p	48	THR	CA-CB-OG1	5.42	117.74	109.60
1	9z	62	HIS	CB-CG-ND1	-5.42	114.56	122.70
1	9C	182	LYS	CA-C-N	5.42	127.81	120.38
1	9C	182	LYS	C-N-CA	5.42	127.81	120.38
1	9G	87	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	9U	37	ILE	CA-C-N	5.42	124.76	118.85
1	9U	37	ILE	C-N-CA	5.42	124.76	118.85
1	a0	135	ILE	CA-CB-CG1	5.42	119.62	110.40
1	ai	221	VAL	N-CA-C	5.42	116.25	108.93
1	11	119	THR	O-C-N	5.42	128.71	122.25
1	al	137	GLY	N-CA-C	5.42	119.24	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	am	51	ASP	CA-C-O	-5.42	114.67	120.42
1	ar	6	LEU	CA-C-O	-5.42	115.09	121.44
1	aB	25	LYS	CA-C-N	5.42	131.74	121.97
1	aB	25	LYS	C-N-CA	5.42	131.74	121.97
1	aB	84	HIS	CA-CB-CG	-5.42	108.38	113.80
1	13	62	HIS	N-CA-C	5.42	122.36	110.80
1	aI	132	ARG	CA-C-O	5.42	126.49	120.63
1	aI	209	ALA	CA-C-O	5.42	127.11	120.92
1	aR	12	HIS	N-CA-C	5.42	118.31	110.28
1	b0	173	ARG	O-C-N	-5.42	116.48	122.07
1	bf	50	GLN	N-CA-C	5.42	117.95	111.71
1	bq	203	LYS	CA-C-O	5.42	126.05	119.38
1	br	82	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	19	146	SER	CB-CA-C	5.42	118.09	109.52
1	bF	143	ARG	N-CA-CB	5.42	119.40	110.39
1	bO	49	PRO	CA-C-N	5.42	127.81	120.38
1	bO	49	PRO	C-N-CA	5.42	127.81	120.38
1	bW	92	GLU	CA-C-N	5.42	125.73	119.93
1	bW	92	GLU	C-N-CA	5.42	125.73	119.93
1	c6	230	VAL	N-CA-C	5.42	116.85	108.44
1	c8	76	GLU	CA-C-N	5.42	127.86	120.54
1	c8	76	GLU	C-N-CA	5.42	127.86	120.54
1	ca	186	THR	CA-CB-OG1	5.42	117.74	109.60
1	cd	182	LYS	CA-C-O	5.42	126.30	120.55
1	cp	163	ASP	CA-C-O	5.42	126.26	120.24
1	cs	87	HIS	N-CA-C	5.42	117.73	110.35
1	cv	173	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	cD	177	ALA	N-CA-CB	-5.42	102.06	110.04
1	cE	117	TRP	CD2-CE2-CZ2	-5.42	116.98	122.40
1	cF	33	SER	N-CA-CB	5.42	116.15	109.59
1	cJ	25	LYS	N-CA-C	-5.42	105.45	111.36
1	cL	146	SER	CB-CA-C	5.42	115.32	110.44
1	cP	148	THR	CB-CA-C	-5.42	100.58	109.80
1	cW	53	ASN	CA-CB-CG	-5.42	107.18	112.60
1	1j	48	THR	CA-C-O	-5.42	114.79	120.70
1	dk	73	ILE	N-CA-CB	5.42	117.92	110.54
1	du	215	MET	CG-SD-CE	-5.42	88.97	100.90
1	1l	80	TRP	CB-CG-CD2	5.42	134.40	126.80
1	dA	114	GLN	CA-C-N	5.42	127.89	120.46
1	dA	114	GLN	C-N-CA	5.42	127.89	120.46
1	dN	91	ILE	CB-CA-C	-5.42	104.91	112.02
1	dO	148	THR	CA-C-N	5.42	131.90	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	148	THR	C-N-CA	5.42	131.90	121.54
1	1n	87	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	e2	3	VAL	N-CA-C	5.42	116.40	108.53
1	el	148	THR	OG1-CB-CG2	-5.42	98.45	109.30
1	eq	167	ARG	CA-C-N	5.42	127.49	120.44
1	eq	167	ARG	C-N-CA	5.42	127.49	120.44
1	et	62	HIS	ND1-CE1-NE2	5.42	113.83	108.40
1	eE	24	VAL	CA-C-O	-5.42	115.42	121.17
1	eQ	47	ALA	N-CA-CB	5.42	117.93	109.85
1	f0	155	GLN	OE1-CD-NE2	-5.42	117.17	122.60
1	f9	81	ASP	CA-C-O	5.42	126.21	119.97
1	fc	62	HIS	ND1-CE1-NE2	5.42	113.83	108.40
1	fi	169	TYR	CB-CG-CD1	5.42	128.94	120.80
1	fs	38	PRO	CA-C-O	-5.42	111.37	119.34
1	ft	23	TRP	N-CA-C	5.42	117.89	111.33
1	fC	12	HIS	ND1-CE1-NE2	5.42	113.83	108.40
1	fJ	132	ARG	CA-C-O	-5.42	114.80	120.55
1	fM	70	LYS	N-CA-C	5.42	116.87	111.07
1	fU	227	LYS	O-C-N	5.42	130.11	122.41
1	1A	51	ASP	N-CA-CB	-5.42	102.13	110.16
1	g3	194	ALA	CB-CA-C	5.42	119.33	109.62
1	j	15	ILE	O-C-N	-5.42	116.88	122.63
1	o	224	PRO	N-CA-C	5.42	119.74	111.11
1	s	85	PRO	N-CA-C	5.42	123.65	112.47
1	A	129	ILE	O-C-N	-5.42	116.61	121.87
1	C	90	PRO	N-CA-C	5.42	123.64	112.47
1	K	66	MET	O-C-N	-5.42	116.23	122.09
1	M	121	ASN	CA-C-O	-5.42	114.34	119.55
1	4	87	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	gj	186	THR	N-CA-CB	5.42	118.09	110.12
1	go	144	MET	N-CA-C	5.42	117.00	111.14
1	gF	97	ARG	CA-C-N	5.42	127.93	120.39
1	gF	97	ARG	C-N-CA	5.42	127.93	120.39
1	gT	12	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	hl	90	PRO	O-C-N	-5.42	115.32	122.64
1	hm	21	ASN	CA-C-O	5.42	126.30	120.55
1	hm	226	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	hp	90	PRO	CB-CA-C	5.42	118.33	111.39
1	hr	149	SER	CA-C-O	5.42	128.26	120.51
1	hx	63	GLN	O-C-N	-5.42	115.60	122.27
1	hJ	218	CYS	N-CA-C	5.42	122.35	110.80
1	hY	156	GLY	O-C-N	-5.42	116.35	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iA	37	ILE	CA-C-O	-5.42	114.24	118.85
1	j2	133	TRP	N-CA-C	-5.42	105.27	111.07
1	jg	75	GLU	CB-CG-CD	5.42	121.82	112.60
1	ji	108	THR	OG1-CB-CG2	-5.42	98.45	109.30
1	jj	26	VAL	CA-C-N	5.42	127.89	120.46
1	jj	26	VAL	C-N-CA	5.42	127.89	120.46
1	jn	75	GLU	N-CA-C	5.42	117.19	111.28
1	jv	108	THR	CA-C-O	5.42	127.11	120.55
1	jQ	45	GLU	CA-C-O	-5.42	115.13	120.82
1	jQ	167	ARG	CA-C-N	5.42	127.55	120.28
1	jQ	167	ARG	C-N-CA	5.42	127.55	120.28
1	24	141	ILE	CA-CB-CG1	5.42	119.62	110.40
1	kP	64	ALA	N-CA-C	5.42	117.19	111.28
1	25	149	SER	O-C-N	-5.42	116.87	122.94
1	lg	173	ARG	N-CA-C	5.42	117.19	111.28
1	li	156	GLY	CA-C-N	5.42	124.61	118.97
1	li	156	GLY	C-N-CA	5.42	124.61	118.97
1	lu	140	LYS	CA-C-O	-5.42	114.67	120.42
1	lw	114	GLN	N-CA-C	5.42	117.19	111.28
1	lH	12	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	lQ	146	SER	N-CA-C	5.42	121.79	109.81
1	2u	73	ILE	CA-CB-CG1	5.42	119.62	110.40
1	2u	197	ASP	CA-CB-CG	5.42	118.02	112.60
1	2N	50	GLN	N-CA-CB	5.42	117.87	110.01
1	36	150	ILE	O-C-N	-5.42	116.39	121.87
1	3e	194	ALA	N-CA-C	5.42	117.53	110.43
1	3p	82	ARG	NH1-CZ-NH2	-5.42	112.25	119.30
1	3q	131	LYS	N-CA-C	5.42	117.62	111.11
1	3r	126	VAL	CA-C-N	5.42	125.85	119.94
1	3r	126	VAL	C-N-CA	5.42	125.85	119.94
1	3u	22	ALA	CA-C-N	5.42	127.49	120.44
1	3u	22	ALA	C-N-CA	5.42	127.49	120.44
1	49	64	ALA	N-CA-C	-5.42	105.45	111.36
1	4f	12	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	4l	63	GLN	CA-C-N	5.42	127.99	120.29
1	4l	63	GLN	C-N-CA	5.42	127.99	120.29
1	4m	60	GLY	CA-C-N	5.42	132.04	121.41
1	4m	60	GLY	C-N-CA	5.42	132.04	121.41
1	4B	26	VAL	CA-C-N	5.42	128.18	120.53
1	4B	26	VAL	C-N-CA	5.42	128.18	120.53
1	51	110	THR	N-CA-C	5.42	117.29	110.24
1	55	100	ARG	CA-C-N	5.42	126.12	119.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	55	100	ARG	C-N-CA	5.42	126.12	119.99
1	5e	138	LEU	CA-C-N	5.42	127.55	120.28
1	5e	138	LEU	C-N-CA	5.42	127.55	120.28
1	5f	131	LYS	N-CA-C	5.42	117.89	111.33
1	6d	191	VAL	CA-C-N	5.42	127.86	120.54
1	6d	191	VAL	C-N-CA	5.42	127.86	120.54
1	6q	181	VAL	O-C-N	-5.42	116.52	121.94
1	6v	78	ALA	N-CA-C	5.42	117.19	111.28
1	6I	54	THR	N-CA-CB	5.42	118.09	110.12
1	73	131	LYS	CA-C-N	5.42	127.55	120.28
1	73	131	LYS	C-N-CA	5.42	127.55	120.28
1	79	14	ALA	N-CA-C	5.42	117.69	110.53
1	7o	49	PRO	CB-CA-C	5.42	120.51	111.56
1	8b	202	LEU	N-CA-C	5.42	117.19	111.28
1	9a	12	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	9z	5	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	9U	202	LEU	CA-C-N	5.42	130.88	122.26
1	9U	202	LEU	C-N-CA	5.42	130.88	122.26
1	a4	132	ARG	N-CA-C	5.42	117.19	111.28
1	ap	74	ASN	N-CA-C	5.42	117.19	111.28
1	au	15	ILE	O-C-N	-5.42	116.88	122.63
1	aV	37	ILE	CA-C-O	-5.42	114.59	118.71
1	15	139	ASN	O-C-N	5.42	127.87	122.12
1	bc	61	GLY	CA-C-N	5.42	130.55	122.74
1	bc	61	GLY	C-N-CA	5.42	130.55	122.74
1	bv	23	TRP	CE3-CZ3-CH2	5.42	128.15	121.10
1	bA	112	GLN	O-C-N	-5.42	115.88	122.22
1	c7	92	GLU	N-CA-C	5.42	121.80	109.81
1	cb	105	ALA	CA-C-N	5.42	131.39	121.85
1	cb	105	ALA	C-N-CA	5.42	131.39	121.85
1	cz	57	ASN	OD1-CG-ND2	5.42	128.02	122.60
1	cA	100	ARG	CA-C-N	5.42	126.00	119.98
1	cA	100	ARG	C-N-CA	5.42	126.00	119.98
1	cS	105	ALA	CA-C-O	5.42	125.84	119.28
1	d0	175	GLU	CA-C-N	5.42	131.21	121.66
1	d0	175	GLU	C-N-CA	5.42	131.21	121.66
1	d2	57	ASN	CA-C-N	5.42	127.86	120.54
1	d2	57	ASN	C-N-CA	5.42	127.86	120.54
1	e1	104	ILE	CA-C-O	5.42	126.92	121.17
1	et	154	ARG	NE-CZ-NH2	5.42	124.08	119.20
1	eD	152	ASP	N-CA-CB	-5.42	102.93	111.39
1	eP	144	MET	CG-SD-CE	-5.42	88.97	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	72	THR	CA-C-O	5.42	126.28	120.70
1	1v	101	GLY	CA-C-O	5.42	126.64	121.05
1	g1	31	ALA	N-CA-C	5.42	122.35	110.80
1	g4	150	ILE	O-C-N	-5.42	114.94	122.05
1	g6	12	HIS	N-CA-C	5.42	118.07	109.50
1	q	124	ILE	N-CA-C	-5.42	103.64	108.95
1	x	192	GLN	N-CA-C	5.42	117.95	111.71
1	F	181	VAL	CB-CA-C	5.42	119.46	112.14
1	H	180	GLU	O-C-N	-5.42	115.60	122.27
1	Q	114	GLN	N-CA-C	5.42	117.19	111.28
1	5	166	ASP	CA-C-O	5.42	126.17	120.42
1	g8	191	VAL	CA-C-O	5.42	126.10	120.25
1	gc	85	PRO	N-CA-CB	5.42	107.87	103.32
1	gh	180	GLU	N-CA-CB	-5.42	102.15	110.12
1	gn	132	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	gt	50	GLN	CA-C-N	5.42	127.49	120.44
1	gt	50	GLN	C-N-CA	5.42	127.49	120.44
1	gB	94	GLY	CA-C-O	5.42	125.86	119.46
1	1E	194	ALA	CA-C-N	5.42	127.92	120.39
1	1E	194	ALA	C-N-CA	5.42	127.92	120.39
1	1F	205	LEU	O-C-N	5.42	128.56	122.22
1	h6	187	GLU	CA-C-O	5.42	125.69	119.35
1	h9	41	SER	O-C-N	-5.42	115.97	122.15
1	hj	120	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	hm	95	GLN	OE1-CD-NE2	5.42	128.02	122.60
1	hC	42	ALA	CA-C-O	5.42	126.10	119.05
1	hO	12	HIS	CB-CG-CD2	-5.42	124.15	131.20
1	hO	183	ASN	CA-CB-CG	-5.42	107.18	112.60
1	hX	174	ALA	O-C-N	-5.42	116.37	122.12
1	i3	91	ILE	CA-CB-CG1	5.42	119.62	110.40
1	i3	184	TRP	CB-CA-C	5.42	119.79	110.79
1	iq	87	HIS	CB-CG-ND1	5.42	130.83	122.70
1	ir	10	MET	CA-C-O	-5.42	115.12	120.98
1	is	53	ASN	CA-CB-CG	-5.42	107.18	112.60
1	iB	24	VAL	N-CA-C	5.42	116.15	110.62
1	1R	183	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	iI	156	GLY	O-C-N	-5.42	116.35	121.77
1	1S	40	PHE	CB-CG-CD2	5.42	129.92	120.70
1	j0	193	ASN	O-C-N	-5.42	115.56	122.34
1	j3	18	ARG	CA-C-O	5.42	126.17	120.42
1	jm	119	THR	CB-CA-C	-5.42	100.56	109.99
1	jn	177	ALA	N-CA-C	5.42	117.55	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jr	11	VAL	O-C-N	-5.42	117.61	123.14
1	jA	107	THR	N-CA-CB	5.42	117.87	110.01
1	jG	67	GLN	N-CA-C	5.42	118.11	111.82
1	jH	115	ILE	CA-C-N	5.42	126.00	119.98
1	jH	115	ILE	C-N-CA	5.42	126.00	119.98
1	jL	178	SER	N-CA-C	5.42	118.31	110.28
1	k0	156	GLY	CA-C-O	5.42	127.31	121.62
1	kf	26	VAL	N-CA-CB	5.42	119.61	110.56
1	kh	87	HIS	N-CA-C	5.42	118.60	111.28
1	kl	181	VAL	O-C-N	-5.42	116.60	121.91
1	kt	167	ARG	CA-C-N	5.42	127.81	120.65
1	kt	167	ARG	C-N-CA	5.42	127.81	120.65
1	kA	192	GLN	N-CA-C	5.42	116.87	111.07
1	kC	176	GLN	CG-CD-OE1	-5.42	109.96	120.80
1	kH	41	SER	CB-CA-C	-5.42	101.74	110.74
1	kI	219	GLN	CG-CD-OE1	5.42	131.64	120.80
1	kL	169	TYR	N-CA-C	5.42	117.27	111.36
1	kM	84	HIS	CB-CA-C	-5.42	103.29	110.34
1	kR	59	VAL	CA-C-O	5.42	126.37	120.57
1	25	20	LEU	N-CA-C	5.42	117.27	111.36
1	kY	84	HIS	CA-CB-CG	-5.42	108.38	113.80
1	kY	141	ILE	O-C-N	-5.42	116.25	121.83
1	l2	200	THR	N-CA-CB	5.42	118.57	110.22
1	l4	160	PRO	O-C-N	-5.42	116.00	122.89
1	lb	120	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	li	33	SER	CA-C-N	5.42	125.09	119.56
1	li	33	SER	C-N-CA	5.42	125.09	119.56
1	lp	203	LYS	CA-C-N	5.42	127.49	120.44
1	lp	203	LYS	C-N-CA	5.42	127.49	120.44
1	lq	173	ARG	N-CA-CB	5.42	117.87	110.01
1	lt	29	GLU	N-CA-C	5.42	119.59	112.92
1	lu	230	VAL	N-CA-CB	5.42	119.24	110.13
1	2a	148	THR	N-CA-CB	5.42	118.02	109.83
1	lR	184	TRP	CA-CB-CG	5.42	123.90	113.60
1	2n	13	GLN	CA-C-N	5.42	128.54	120.90
1	2n	13	GLN	C-N-CA	5.42	128.54	120.90
1	2r	102	SER	N-CA-C	5.42	118.11	111.82
1	2x	192	GLN	CG-CD-NE2	5.42	124.53	116.40
1	2N	79	GLU	N-CA-C	5.42	117.19	111.28
1	2V	195	ASN	CA-C-N	5.42	126.62	119.84
1	2V	195	ASN	C-N-CA	5.42	126.62	119.84
1	37	147	PRO	CA-C-N	5.42	131.90	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	37	147	PRO	C-N-CA	5.42	131.90	121.54
1	3b	152	ASP	CA-C-O	5.42	125.63	119.18
1	3s	186	THR	CA-C-O	-5.42	115.31	121.00
1	3Q	19	THR	CA-CB-CG2	5.42	119.72	110.50
1	41	32	PHE	CA-C-O	5.42	125.99	119.59
1	41	167	ARG	O-C-N	-5.42	116.49	122.07
1	4q	36	VAL	CA-C-N	5.42	124.67	120.33
1	4q	36	VAL	C-N-CA	5.42	124.67	120.33
1	4x	230	VAL	CA-C-O	5.42	124.11	118.96
1	4J	187	GLU	CA-C-O	-5.42	114.67	120.42
1	4M	202	LEU	CA-C-N	5.42	127.49	120.44
1	4M	202	LEU	C-N-CA	5.42	127.49	120.44
1	4S	78	ALA	N-CA-C	5.42	116.87	111.07
1	4X	112	GLN	N-CA-C	-5.42	105.53	111.82
1	54	178	SER	N-CA-C	5.42	122.35	110.80
1	56	48	THR	CA-C-O	-5.42	114.91	120.87
1	5h	129	ILE	O-C-N	-5.42	116.60	121.91
1	5l	32	PHE	O-C-N	-5.42	116.90	123.13
1	5y	177	ALA	N-CA-C	5.42	117.29	110.24
1	5z	209	ALA	N-CA-C	5.42	117.88	110.24
1	5D	50	GLN	CA-C-N	5.42	127.55	120.28
1	5D	50	GLN	C-N-CA	5.42	127.55	120.28
1	5O	157	PRO	N-CA-C	5.42	123.64	112.47
1	5R	171	THR	CA-C-N	5.42	127.81	120.44
1	5R	171	THR	C-N-CA	5.42	127.81	120.44
1	5W	96	MET	CA-C-N	5.42	128.94	120.75
1	5W	96	MET	C-N-CA	5.42	128.94	120.75
1	63	164	TYR	N-CA-CB	-5.42	102.15	110.01
1	6d	140	LYS	CA-C-O	-5.42	114.67	120.42
1	6e	135	ILE	CA-C-N	5.42	127.55	120.28
1	6e	135	ILE	C-N-CA	5.42	127.55	120.28
1	6e	211	LEU	N-CA-CB	-5.42	101.87	110.22
1	6f	219	GLN	N-CA-C	5.42	118.90	112.72
1	6t	153	ILE	N-CA-CB	5.42	117.02	110.95
1	6u	25	LYS	N-CA-C	5.42	118.11	111.82
1	6w	54	THR	N-CA-C	5.42	117.89	111.33
1	6P	130	TYR	N-CA-CB	-5.42	102.14	110.16
1	6R	168	PHE	CA-C-N	5.42	128.09	120.28
1	6R	168	PHE	C-N-CA	5.42	128.09	120.28
1	6S	177	ALA	N-CA-C	5.42	117.72	110.35
1	6W	13	GLN	O-C-N	-5.42	116.75	123.36
1	72	56	LEU	N-CA-C	5.42	116.87	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7g	110	THR	N-CA-C	5.42	117.69	110.53
1	7l	114	GLN	N-CA-C	5.42	119.06	112.23
1	7v	148	THR	CA-CB-OG1	-5.42	101.47	109.60
1	7v	220	GLY	CA-C-N	5.42	130.17	123.12
1	7v	220	GLY	C-N-CA	5.42	130.17	123.12
1	7W	176	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	7Y	87	HIS	CA-CB-CG	5.42	119.22	113.80
1	82	120	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	82	207	PRO	N-CA-C	-5.42	107.57	114.35
1	85	113	GLU	CA-C-N	5.42	127.99	120.29
1	85	113	GLU	C-N-CA	5.42	127.99	120.29
1	8b	112	GLN	N-CA-C	5.42	117.19	111.28
1	8g	175	GLU	N-CA-C	5.42	118.09	110.23
1	8h	66	MET	CB-CA-C	5.42	119.49	110.81
1	8k	27	VAL	O-C-N	-5.42	114.39	121.82
1	8k	146	SER	N-CA-C	5.42	117.44	109.42
1	8v	35	GLU	N-CA-C	5.42	117.19	111.28
1	8G	94	GLY	CA-C-O	5.42	125.14	119.07
1	8V	106	GLY	CA-C-O	5.42	124.99	118.97
1	8X	184	TRP	N-CA-CB	5.42	118.09	110.12
1	8Y	119	THR	CA-C-N	5.42	130.84	120.97
1	8Y	119	THR	C-N-CA	5.42	130.84	120.97
1	91	173	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	9b	22	ALA	CA-C-N	5.42	127.81	120.44
1	9b	22	ALA	C-N-CA	5.42	127.81	120.44
1	9i	154	ARG	CA-C-N	5.42	129.88	121.26
1	9i	154	ARG	C-N-CA	5.42	129.88	121.26
1	9n	7	GLN	CB-CG-CD	5.42	121.82	112.60
1	9s	30	LYS	N-CA-C	-5.42	106.83	113.50
1	9v	215	MET	CA-C-N	5.42	127.55	120.28
1	9v	215	MET	C-N-CA	5.42	127.55	120.28
1	9x	9	GLN	CG-CD-OE1	5.42	131.64	120.80
1	9y	87	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	9F	130	TYR	CA-C-N	5.42	127.55	120.28
1	9F	130	TYR	C-N-CA	5.42	127.55	120.28
1	9I	100	ARG	CA-C-O	-5.42	115.81	121.99
1	9L	179	GLN	CA-C-N	5.42	128.55	120.31
1	9L	179	GLN	C-N-CA	5.42	128.55	120.31
1	9T	97	ARG	NH1-CZ-NH2	-5.42	112.25	119.30
1	a6	66	MET	O-C-N	-5.42	115.97	122.15
1	ae	16	SER	CA-C-N	5.42	125.07	119.05
1	ae	16	SER	C-N-CA	5.42	125.07	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	af	188	THR	CA-C-O	5.42	123.53	119.68
1	ax	178	SER	CA-C-N	5.42	127.81	120.38
1	ax	178	SER	C-N-CA	5.42	127.81	120.38
1	az	86	VAL	CA-C-O	5.42	127.03	120.85
1	aB	67	GLN	O-C-N	5.42	127.87	122.12
1	aV	70	LYS	N-CA-C	5.42	117.19	111.28
1	aW	91	ILE	N-CA-C	-5.42	107.52	113.43
1	b2	227	LYS	N-CA-C	5.42	117.80	111.02
1	bb	132	ARG	N-CA-C	-5.42	105.37	111.28
1	bp	58	THR	N-CA-C	5.42	119.15	112.54
1	bA	26	VAL	N-CA-C	5.42	116.20	110.72
1	bN	62	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	cf	26	VAL	N-CA-CB	5.42	116.89	110.55
1	ci	62	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	ci	97	ARG	N-CA-CB	5.42	118.02	109.83
1	1e	7	GLN	CB-CG-CD	5.42	121.82	112.60
1	cq	102	SER	CB-CA-C	-5.42	101.79	110.79
1	cs	136	LEU	CA-C-N	5.42	125.96	120.00
1	cs	136	LEU	C-N-CA	5.42	125.96	120.00
1	cv	18	ARG	N-CA-C	5.42	117.89	111.33
1	cN	184	TRP	CA-C-O	5.42	126.30	120.55
1	cP	27	VAL	N-CA-CB	5.42	118.71	110.58
1	cT	139	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	1h	132	ARG	N-CA-C	5.42	117.19	111.28
1	d0	135	ILE	N-CA-C	5.42	116.15	110.62
1	d5	100	ARG	CD-NE-CZ	5.42	131.99	124.40
1	dc	99	PRO	CB-CA-C	-5.42	107.32	111.87
1	1j	168	PHE	CA-CB-CG	5.42	119.22	113.80
1	df	101	GLY	CA-C-O	5.42	126.11	120.80
1	dl	174	ALA	CA-C-O	5.42	126.51	120.82
1	dt	121	ASN	CA-CB-CG	-5.42	107.18	112.60
1	du	210	THR	O-C-N	-5.42	116.87	122.94
1	dz	154	ARG	CA-C-N	5.42	130.02	121.56
1	dz	154	ARG	C-N-CA	5.42	130.02	121.56
1	dL	105	ALA	N-CA-CB	-5.42	101.10	110.32
1	dO	124	ILE	CA-C-N	-5.42	114.59	121.91
1	dO	124	ILE	C-N-CA	-5.42	114.59	121.91
1	dQ	20	LEU	CD1-CG-CD2	-5.42	98.87	110.80
1	dT	200	THR	CA-CB-OG1	5.42	117.73	109.60
1	dZ	144	MET	N-CA-C	5.42	117.89	111.33
1	e4	5	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	e4	88	ALA	O-C-N	-5.42	116.33	123.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ec	226	HIS	CA-CB-CG	5.42	119.22	113.80
1	et	29	GLU	N-CA-C	5.42	117.19	111.28
1	eW	48	THR	CA-CB-OG1	5.42	117.73	109.60
1	eW	145	TYR	CB-CG-CD2	5.42	128.93	120.80
1	eW	220	GLY	CA-C-N	5.42	130.53	122.99
1	eW	220	GLY	C-N-CA	5.42	130.53	122.99
1	f3	184	TRP	CA-C-O	-5.42	114.80	120.55
1	fd	120	HIS	O-C-N	-5.42	116.61	122.79
1	fk	21	ASN	O-C-N	-5.42	116.49	122.07
1	fA	150	ILE	O-C-N	-5.42	116.39	121.87
1	fI	162	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	fQ	170	LYS	N-CA-C	5.42	117.27	111.36
1	fT	121	ASN	CA-C-O	-5.42	115.36	119.59
1	g1	55	MET	O-C-N	-5.42	116.24	122.09
1	g3	207	PRO	O-C-N	-5.42	115.32	122.64
1	g5	144	MET	N-CA-C	5.42	119.06	112.23
1	o	197	ASP	CA-C-O	5.42	126.19	119.79
1	I	90	PRO	N-CA-C	5.42	123.64	112.47
1	7	128	GLU	CA-C-O	-5.42	114.67	120.42
1	gm	179	GLN	N-CA-C	5.42	117.61	111.11
1	gs	173	ARG	CB-CA-C	-5.42	100.60	110.63
1	gx	82	ARG	CA-C-N	5.42	128.32	120.79
1	gx	82	ARG	C-N-CA	5.42	128.32	120.79
1	1G	229	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	h9	207	PRO	N-CA-C	5.42	120.89	113.84
1	hH	151	LEU	CA-C-N	5.42	127.49	120.44
1	hH	151	LEU	C-N-CA	5.42	127.49	120.44
1	hQ	219	GLN	N-CA-C	5.42	117.19	111.28
1	1N	144	MET	O-C-N	-5.42	116.24	122.09
1	if	63	GLN	N-CA-C	5.42	117.19	111.28
1	ip	4	GLN	OE1-CD-NE2	5.42	128.02	122.60
1	iw	111	LEU	CA-C-O	5.42	126.30	120.55
1	iF	110	THR	CA-CB-OG1	5.42	117.73	109.60
1	jr	132	ARG	CA-CB-CG	5.42	124.94	114.10
1	js	6	LEU	O-C-N	-5.42	115.38	122.59
1	js	62	HIS	CB-CG-ND1	-5.42	114.57	122.70
1	jC	39	MET	N-CA-C	5.42	116.87	111.07
1	jS	192	GLN	O-C-N	-5.42	116.37	122.12
1	jY	175	GLU	CA-C-N	5.42	131.32	122.65
1	jY	175	GLU	C-N-CA	5.42	131.32	122.65
1	k4	153	ILE	CB-CA-C	-5.42	102.42	110.33
1	k6	99	PRO	N-CA-C	5.42	119.73	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	4	GLN	O-C-N	-5.42	116.70	123.04
1	kH	132	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	kY	87	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	l0	7	GLN	CB-CG-CD	5.42	121.81	112.60
1	lr	137	GLY	CA-C-N	5.42	127.54	120.28
1	lr	137	GLY	C-N-CA	5.42	127.54	120.28
1	lI	24	VAL	CA-C-O	-5.42	115.03	121.05
1	2t	3	VAL	O-C-N	-5.42	117.20	123.00
1	2L	164	TYR	N-CA-C	5.42	117.19	111.28
1	2O	83	LEU	N-CA-CB	-5.42	102.33	110.73
1	2Z	75	GLU	O-C-N	-5.42	115.97	122.15
1	36	87	HIS	CA-CB-CG	-5.42	108.38	113.80
1	38	69	LEU	CA-C-N	5.42	127.49	120.44
1	38	69	LEU	C-N-CA	5.42	127.49	120.44
1	3f	182	LYS	CA-C-N	5.42	127.99	120.29
1	3f	182	LYS	C-N-CA	5.42	127.99	120.29
1	48	109	SER	N-CA-C	5.42	118.08	109.24
1	4e	148	THR	N-CA-C	5.42	118.08	109.24
1	4i	223	GLY	CA-C-N	5.42	126.61	119.84
1	4i	223	GLY	C-N-CA	5.42	126.61	119.84
1	4k	39	MET	CA-C-N	5.42	127.99	120.29
1	4k	39	MET	C-N-CA	5.42	127.99	120.29
1	4q	116	GLY	N-CA-C	5.42	118.79	112.50
1	4s	185	MET	CA-CB-CG	-5.42	103.26	114.10
1	59	63	GLN	CB-CG-CD	5.42	121.81	112.60
1	5d	20	LEU	O-C-N	-5.42	116.38	122.12
1	5z	230	VAL	CA-C-N	5.42	131.46	121.70
1	5z	230	VAL	C-N-CA	5.42	131.46	121.70
1	5T	164	TYR	CA-C-N	5.42	128.12	120.42
1	5T	164	TYR	C-N-CA	5.42	128.12	120.42
1	61	13	GLN	CG-CD-NE2	5.42	124.53	116.40
1	6a	57	ASN	CA-C-N	5.42	127.54	120.28
1	6a	57	ASN	C-N-CA	5.42	127.54	120.28
1	6H	138	LEU	N-CA-C	5.42	117.19	111.28
1	6O	202	LEU	N-CA-CB	5.42	117.87	110.01
1	6T	73	ILE	N-CA-CB	-5.42	103.17	110.54
1	7l	18	ARG	CA-C-O	5.42	126.70	120.90
1	7O	158	LYS	CG-CD-CE	5.42	123.77	111.30
1	7X	129	ILE	N-CA-C	5.42	115.62	110.42
1	8m	84	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	8E	199	LYS	N-CA-C	5.42	120.31	111.37
1	8O	181	VAL	CA-C-N	5.42	128.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8O	181	VAL	C-N-CA	5.42	128.09	120.28
1	92	215	MET	N-CA-C	5.42	117.19	111.28
1	9a	120	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	9k	171	THR	CA-C-N	5.42	128.55	120.31
1	9k	171	THR	C-N-CA	5.42	128.55	120.31
1	9N	195	ASN	CA-CB-CG	-5.42	107.18	112.60
1	aj	144	MET	O-C-N	-5.42	116.28	122.08
1	13	111	LEU	N-CA-C	5.42	116.87	111.07
1	b5	37	ILE	CB-CA-C	-5.42	106.90	114.00
1	ba	165	VAL	N-CA-CB	5.42	116.53	110.51
1	bj	17	PRO	N-CA-C	-5.42	106.65	114.18
1	bk	22	ALA	CA-C-N	5.42	127.54	120.28
1	bk	22	ALA	C-N-CA	5.42	127.54	120.28
1	bo	220	GLY	N-CA-C	5.42	120.72	114.16
1	by	29	GLU	N-CA-C	5.42	117.27	111.36
1	bz	8	GLY	O-C-N	-5.42	115.65	122.70
1	19	155	GLN	CG-CD-OE1	5.42	131.64	120.80
1	bQ	72	THR	N-CA-CB	5.42	118.18	110.16
1	cb	216	THR	N-CA-C	5.42	117.19	111.28
1	cx	179	GLN	CA-C-O	5.42	126.48	120.63
1	d4	179	GLN	CA-C-O	5.42	126.20	119.97
1	dn	160	PRO	CA-C-N	5.42	127.54	120.28
1	dn	160	PRO	C-N-CA	5.42	127.54	120.28
1	dx	176	GLN	O-C-N	-5.42	116.19	122.86
1	dP	226	HIS	CB-CG-CD2	-5.42	124.15	131.20
1	1q	125	PRO	N-CA-C	5.42	123.64	112.47
1	et	155	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	eB	104	ILE	O-C-N	-5.42	116.25	121.83
1	eE	132	ARG	CB-CG-CD	5.42	123.77	111.30
1	eP	34	PRO	N-CA-C	5.42	120.63	113.86
1	fA	214	MET	CG-SD-CE	-5.42	88.98	100.90
1	fC	179	GLN	CA-C-N	5.42	128.08	120.28
1	fC	179	GLN	C-N-CA	5.42	128.08	120.28
1	fF	146	SER	O-C-N	-5.42	115.09	121.32
1	h	160	PRO	CA-C-N	5.42	127.54	120.28
1	h	160	PRO	C-N-CA	5.42	127.54	120.28
1	2	26	VAL	CA-CB-CG1	5.42	119.61	110.40
1	3	169	TYR	N-CA-C	5.42	117.27	111.36
1	R	9	GLN	CA-C-O	-5.42	115.81	121.55
1	8	131	LYS	CA-C-N	5.42	127.49	120.44
1	8	131	LYS	C-N-CA	5.42	127.49	120.44
1	gd	34	PRO	N-CA-CB	-5.42	97.56	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	149	SER	CA-CB-OG	5.42	121.94	111.10
1	1C	62	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	gn	80	TRP	CD2-CE2-CZ2	-5.42	116.98	122.40
1	gI	64	ALA	O-C-N	-5.42	116.38	122.12
1	1H	120	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	hj	107	THR	O-C-N	-5.42	114.67	122.36
1	hp	91	ILE	N-CA-C	5.42	116.39	108.53
1	hQ	12	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	i3	191	VAL	CA-C-O	5.42	126.10	120.25
1	i6	75	GLU	CA-C-N	5.42	127.54	120.28
1	i6	75	GLU	C-N-CA	5.42	127.54	120.28
1	i7	36	VAL	CB-CA-C	-5.42	103.48	112.26
1	ig	28	GLU	N-CA-CB	5.42	117.87	110.01
1	ih	67	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	ik	75	GLU	N-CA-C	5.42	116.87	111.07
1	ik	197	ASP	CA-CB-CG	-5.42	107.18	112.60
1	1P	89	GLY	CA-C-N	5.42	126.61	119.84
1	1P	89	GLY	C-N-CA	5.42	126.61	119.84
1	is	186	THR	CA-C-N	5.42	127.98	120.29
1	is	186	THR	C-N-CA	5.42	127.98	120.29
1	it	64	ALA	N-CA-C	5.42	117.61	111.11
1	iG	23	TRP	CB-CG-CD1	-5.42	118.77	126.90
1	iG	139	ASN	O-C-N	-5.42	115.61	122.27
1	iL	177	ALA	N-CA-C	5.42	119.11	111.52
1	iT	53	ASN	CA-CB-CG	-5.42	107.18	112.60
1	j2	108	THR	CA-C-O	5.42	125.90	119.56
1	jr	132	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	jH	87	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	jI	85	PRO	CA-C-N	5.42	129.03	120.47
1	jI	85	PRO	C-N-CA	5.42	129.03	120.47
1	jI	204	ALA	N-CA-C	5.42	117.19	111.28
1	1Y	11	VAL	CB-CA-C	5.42	118.65	110.63
1	jV	117	TRP	N-CA-C	5.42	118.99	112.38
1	kg	89	GLY	CA-C-O	-5.42	113.77	121.52
1	ki	7	GLN	OE1-CD-NE2	5.42	128.02	122.60
1	kn	213	GLU	CB-CG-CD	5.42	121.81	112.60
1	kv	145	TYR	CA-C-O	5.42	126.16	120.42
1	kO	10	MET	CG-SD-CE	-5.42	88.98	100.90
1	kP	24	VAL	CA-C-O	-5.42	114.40	120.25
1	kU	89	GLY	CA-C-N	5.42	125.42	119.89
1	kU	89	GLY	C-N-CA	5.42	125.42	119.89
1	la	92	GLU	N-CA-C	5.42	116.52	109.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	26	VAL	N-CA-C	5.42	115.62	110.42
1	lm	73	ILE	CA-C-O	5.42	127.09	121.29
1	lu	36	VAL	N-CA-C	-5.42	104.97	112.50
1	lM	28	GLU	CA-C-O	-5.42	114.81	120.55
1	lN	87	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	2e	87	HIS	CA-CB-CG	5.42	119.22	113.80
1	2l	23	TRP	CB-CG-CD2	5.42	134.39	126.80
1	2B	213	GLU	N-CA-C	5.42	117.27	111.36
1	2G	67	GLN	CA-C-N	5.42	127.48	120.44
1	2G	67	GLN	C-N-CA	5.42	127.48	120.44
1	2I	179	GLN	CA-C-N	5.42	128.54	120.31
1	2I	179	GLN	C-N-CA	5.42	128.54	120.31
1	2L	190	LEU	CA-C-N	5.42	127.33	120.72
1	2L	190	LEU	C-N-CA	5.42	127.33	120.72
1	2Q	18	ARG	CA-C-O	5.42	126.19	119.79
1	2V	167	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	32	150	ILE	CA-C-N	5.42	132.19	122.38
1	32	150	ILE	C-N-CA	5.42	132.19	122.38
1	35	85	PRO	CB-CA-C	-5.42	103.85	110.95
1	38	186	THR	N-CA-C	5.42	116.87	111.07
1	39	182	LYS	CA-C-N	5.42	127.54	120.28
1	39	182	LYS	C-N-CA	5.42	127.54	120.28
1	3a	177	ALA	N-CA-C	5.42	117.28	110.24
1	3c	10	MET	CA-C-N	5.42	129.36	122.37
1	3c	10	MET	C-N-CA	5.42	129.36	122.37
1	3c	188	THR	N-CA-CB	5.42	119.65	110.49
1	3g	110	THR	CA-C-N	5.42	127.54	120.28
1	3g	110	THR	C-N-CA	5.42	127.54	120.28
1	3l	74	ASN	CB-CG-ND2	5.42	124.53	116.40
1	3q	167	ARG	CA-C-O	5.42	126.17	120.42
1	3H	161	PHE	CA-C-N	5.42	129.80	121.19
1	3H	161	PHE	C-N-CA	5.42	129.80	121.19
1	3K	114	GLN	CA-C-N	5.42	129.03	120.47
1	3K	114	GLN	C-N-CA	5.42	129.03	120.47
1	3L	204	ALA	N-CA-C	5.42	117.19	111.28
1	3R	208	ALA	CA-C-N	5.42	128.78	120.82
1	3R	208	ALA	C-N-CA	5.42	128.78	120.82
1	4a	130	TYR	CB-CG-CD1	5.42	128.93	120.80
1	4k	50	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	4k	170	LYS	CA-C-O	5.42	126.51	120.82
1	4o	171	THR	CA-C-N	5.42	128.08	120.28
1	4o	171	THR	C-N-CA	5.42	128.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4p	163	ASP	N-CA-CB	-5.42	101.99	110.44
1	4r	227	LYS	N-CA-C	5.42	116.99	111.14
1	4s	115	ILE	O-C-N	-5.42	116.52	121.94
1	4t	211	LEU	N-CA-C	-5.42	105.45	111.36
1	59	197	ASP	O-C-N	-5.42	115.97	122.15
1	5e	7	GLN	CB-CG-CD	5.42	121.81	112.60
1	5i	157	PRO	N-CA-CB	5.42	108.94	103.25
1	5j	138	LEU	N-CA-C	5.42	117.19	111.28
1	5k	181	VAL	O-C-N	-5.42	116.40	121.87
1	5l	199	LYS	CA-C-O	5.42	126.20	119.97
1	5n	210	THR	CA-CB-OG1	5.42	117.73	109.60
1	5q	42	ALA	N-CA-C	5.42	116.87	111.07
1	5v	38	PRO	N-CA-CB	5.42	109.51	103.44
1	5y	93	PRO	N-CA-C	5.42	119.71	111.15
1	5H	185	MET	CG-SD-CE	-5.42	88.98	100.90
1	5L	202	LEU	N-CA-C	5.42	118.11	111.82
1	5R	17	PRO	N-CA-C	-5.42	107.09	113.86
1	5S	219	GLN	N-CA-C	5.42	117.94	111.71
1	60	179	GLN	CA-C-N	5.42	127.54	120.28
1	60	179	GLN	C-N-CA	5.42	127.54	120.28
1	6b	12	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	6d	21	ASN	N-CA-C	5.42	117.89	111.33
1	6e	133	TRP	CB-CG-CD2	-5.42	119.21	126.80
1	6e	212	GLU	CA-C-N	5.42	127.80	120.38
1	6e	212	GLU	C-N-CA	5.42	127.80	120.38
1	6i	86	VAL	CA-CB-CG2	-5.42	101.19	110.40
1	6r	184	TRP	CA-C-O	5.42	126.29	120.55
1	6y	210	THR	O-C-N	-5.42	116.28	122.89
1	6U	204	ALA	N-CA-CB	5.42	119.65	110.49
1	6X	120	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	77	209	ALA	N-CA-CB	-5.42	102.18	110.42
1	7m	183	ASN	N-CA-C	5.42	117.61	111.11
1	7o	82	ARG	CA-C-O	5.42	126.28	120.70
1	7w	138	LEU	CA-C-O	5.42	126.22	120.10
1	7A	105	ALA	O-C-N	-5.42	114.72	122.41
1	7N	145	TYR	CB-CG-CD2	5.42	128.93	120.80
1	7O	229	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	7U	166	ASP	N-CA-CB	-5.42	102.14	110.16
1	7W	9	GLN	N-CA-C	5.42	117.54	109.25
1	7Z	90	PRO	CB-CA-C	5.42	118.17	111.23
1	82	34	PRO	N-CA-CB	5.42	109.24	103.39
1	86	58	THR	CB-CA-C	-5.42	101.80	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8a	188	THR	O-C-N	5.42	125.59	120.71
1	8l	65	ALA	N-CA-C	5.42	117.19	111.28
1	8o	100	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	8t	176	GLN	N-CA-CB	5.42	118.78	110.70
1	8z	83	LEU	CA-C-O	5.42	126.29	120.55
1	8E	25	LYS	N-CA-C	5.42	117.27	111.36
1	8K	54	THR	N-CA-CB	5.42	118.08	110.12
1	8T	181	VAL	N-CA-CB	5.42	117.91	110.54
1	8X	228	ALA	CA-C-O	5.42	127.87	119.96
1	9i	226	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	9k	205	LEU	N-CA-C	5.42	118.10	111.82
1	9m	227	LYS	CA-C-N	5.42	127.54	120.28
1	9m	227	LYS	C-N-CA	5.42	127.54	120.28
1	9o	166	ASP	CA-CB-CG	5.42	118.02	112.60
1	9u	152	ASP	CA-C-O	5.42	125.69	119.35
1	9v	118	MET	N-CA-C	5.42	117.94	111.71
1	9K	151	LEU	CA-C-N	5.42	129.27	120.60
1	9K	151	LEU	C-N-CA	5.42	129.27	120.60
1	9T	15	ILE	N-CA-C	5.42	116.40	109.30
1	a5	160	PRO	N-CA-CB	-5.42	98.64	103.35
1	ae	39	MET	O-C-N	5.42	127.65	122.07
1	ai	224	PRO	O-C-N	-5.42	116.35	122.91
1	am	111	LEU	O-C-N	-5.42	116.38	122.12
1	at	27	VAL	N-CA-C	5.42	117.86	111.09
1	au	210	THR	CA-CB-OG1	5.42	117.73	109.60
1	ax	100	ARG	NE-CZ-NH2	-5.42	114.32	119.20
1	aE	113	GLU	N-CA-CB	5.42	117.87	110.01
1	aQ	139	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	b5	161	PHE	CA-C-N	5.42	127.54	120.28
1	b5	161	PHE	C-N-CA	5.42	127.54	120.28
1	16	13	GLN	N-CA-C	-5.42	100.48	108.99
1	16	39	MET	CA-C-N	5.42	127.54	120.28
1	16	39	MET	C-N-CA	5.42	127.54	120.28
1	b9	68	MET	N-CA-C	5.42	119.61	112.89
1	bi	122	PRO	N-CA-C	5.42	117.31	110.70
1	bk	90	PRO	N-CA-C	5.42	119.82	111.21
1	bl	11	VAL	O-C-N	-5.42	117.35	123.20
1	bn	20	LEU	N-CA-C	5.42	117.19	111.28
1	bq	112	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	bK	23	TRP	CA-C-N	5.42	127.88	120.46
1	bK	23	TRP	C-N-CA	5.42	127.88	120.46
1	bK	202	LEU	O-C-N	-5.42	115.97	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bL	123	PRO	N-CA-C	5.42	118.98	110.80
1	1a	154	ARG	N-CA-C	-5.42	101.07	109.14
1	bN	51	ASP	N-CA-C	5.42	116.87	111.07
1	bP	212	GLU	CA-C-N	5.42	127.48	120.44
1	bP	212	GLU	C-N-CA	5.42	127.48	120.44
1	bR	50	GLN	N-CA-C	5.42	117.19	111.28
1	bS	142	VAL	O-C-N	-5.42	114.39	121.82
1	bU	119	THR	N-CA-CB	5.42	118.47	110.56
1	bV	227	LYS	N-CA-C	5.42	117.28	110.24
1	cj	85	PRO	CB-CA-C	-5.42	104.47	111.46
1	1e	103	ASP	CB-CA-C	-5.42	101.64	110.85
1	cs	120	HIS	O-C-N	-5.42	116.56	122.84
1	ct	168	PHE	N-CA-C	5.42	116.87	111.07
1	ct	207	PRO	N-CD-CG	5.42	111.33	103.20
1	cC	112	GLN	CA-C-N	5.42	127.48	120.44
1	cC	112	GLN	C-N-CA	5.42	127.48	120.44
1	cG	82	ARG	N-CA-CB	-5.42	102.21	110.07
1	cP	91	ILE	CA-CB-CG1	5.42	119.61	110.40
1	cP	165	VAL	CA-C-N	5.42	127.48	120.44
1	cP	165	VAL	C-N-CA	5.42	127.48	120.44
1	d5	126	VAL	O-C-N	-5.42	116.52	121.94
1	dc	191	VAL	N-CA-C	5.42	115.62	110.42
1	di	211	LEU	CA-C-O	-5.42	113.98	120.10
1	dj	151	LEU	CA-C-N	5.42	131.48	122.54
1	dj	151	LEU	C-N-CA	5.42	131.48	122.54
1	dl	130	TYR	CA-C-N	5.42	127.54	120.28
1	dl	130	TYR	C-N-CA	5.42	127.54	120.28
1	dx	215	MET	CA-C-N	5.42	127.48	120.44
1	dx	215	MET	C-N-CA	5.42	127.48	120.44
1	dD	62	HIS	N-CA-CB	-5.42	103.47	111.71
1	dT	68	MET	CA-C-N	5.42	127.99	120.29
1	dT	68	MET	C-N-CA	5.42	127.99	120.29
1	dV	24	VAL	O-C-N	-5.42	114.64	122.12
1	1p	34	PRO	CA-C-N	5.42	128.29	120.38
1	1p	34	PRO	C-N-CA	5.42	128.29	120.38
1	eh	55	MET	CA-C-N	5.42	127.48	120.44
1	eh	55	MET	C-N-CA	5.42	127.48	120.44
1	er	172	LEU	CA-C-O	5.42	125.98	119.59
1	ev	42	ALA	N-CA-C	5.42	117.19	111.28
1	eA	94	GLY	N-CA-C	5.42	123.07	115.43
1	eL	75	GLU	N-CA-C	5.42	117.19	111.28
1	eM	178	SER	CA-CB-OG	5.42	121.94	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1t	132	ARG	CA-CB-CG	5.42	124.94	114.10
1	1u	81	ASP	CA-C-O	5.42	126.48	120.63
1	f2	212	GLU	N-CA-CB	5.42	117.87	110.01
1	f9	103	ASP	N-CA-CB	5.42	118.08	110.12
1	f9	168	PHE	CA-C-N	5.42	127.98	120.29
1	f9	168	PHE	C-N-CA	5.42	127.98	120.29
1	fc	170	LYS	N-CA-C	5.42	116.87	111.07
1	1w	46	GLY	CA-C-O	5.42	126.57	119.69
1	fk	84	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	fw	65	ALA	O-C-N	-5.42	116.38	122.12
1	fM	197	ASP	O-C-N	-5.42	116.45	122.09
1	1z	136	LEU	O-C-N	-5.42	116.45	122.09
1	fU	165	VAL	N-CA-C	-5.42	105.25	110.72
1	fY	58	THR	CB-CA-C	5.42	119.33	110.17
1	1	120	HIS	O-C-N	-5.42	116.61	122.79
1	n	12	HIS	CE1-NE2-CD2	-5.42	103.58	109.00
1	w	33	SER	CA-C-O	-5.42	114.18	120.03
1	B	102	SER	CA-C-N	5.42	127.54	120.28
1	B	102	SER	C-N-CA	5.42	127.54	120.28
1	M	14	ALA	N-CA-C	5.42	117.72	110.35
1	P	172	LEU	CA-C-O	5.42	126.29	120.55
1	5	82	ARG	NH1-CZ-NH2	-5.42	112.25	119.30
1	ga	164	TYR	N-CA-C	5.42	117.61	111.11
1	gn	27	VAL	O-C-N	-5.42	115.68	121.80
1	gt	33	SER	N-CA-C	-5.42	99.67	109.09
1	gD	155	GLN	O-C-N	-5.42	116.90	123.29
1	gT	230	VAL	CA-CB-CG1	-5.42	101.19	110.40
1	gU	14	ALA	N-CA-C	5.42	118.14	110.50
1	gU	126	VAL	N-CA-C	5.42	116.14	110.62
1	h4	85	PRO	CA-C-O	-5.42	115.28	121.56
1	h8	175	GLU	N-CA-C	5.42	118.17	110.10
1	1I	50	GLN	CA-C-N	5.42	127.54	120.28
1	1I	50	GLN	C-N-CA	5.42	127.54	120.28
1	hu	95	GLN	CA-C-N	5.42	128.54	120.90
1	hu	95	GLN	C-N-CA	5.42	128.54	120.90
1	hv	163	ASP	CA-C-N	5.42	127.80	120.38
1	hv	163	ASP	C-N-CA	5.42	127.80	120.38
1	hM	65	ALA	O-C-N	5.42	127.65	122.07
1	hP	181	VAL	CA-CB-CG1	5.42	119.61	110.40
1	hR	67	GLN	CB-CA-C	5.42	119.38	110.88
1	i9	67	GLN	CA-C-N	5.42	127.54	120.28
1	i9	67	GLN	C-N-CA	5.42	127.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ir	221	VAL	CA-C-O	5.42	126.59	120.85
1	it	97	ARG	O-C-N	-5.42	116.41	122.75
1	1Q	191	VAL	N-CA-C	-5.42	105.44	110.53
1	iC	193	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	iE	29	GLU	CA-C-O	5.42	126.33	119.61
1	iH	165	VAL	CA-C-N	5.42	127.48	120.44
1	iH	165	VAL	C-N-CA	5.42	127.48	120.44
1	iH	221	VAL	CB-CA-C	-5.42	102.41	111.29
1	iM	81	ASP	CA-C-O	5.42	126.20	119.97
1	iX	40	PHE	CA-CB-CG	5.42	119.22	113.80
1	j6	170	LYS	N-CA-CB	5.42	117.86	110.01
1	j9	223	GLY	N-CA-C	5.42	123.39	112.34
1	jb	31	ALA	N-CA-C	5.42	122.34	110.80
1	jl	117	TRP	N-CA-C	5.42	117.94	111.71
1	jo	185	MET	N-CA-C	5.42	117.61	111.11
1	jz	123	PRO	N-CA-C	5.42	119.71	111.15
1	jB	15	ILE	O-C-N	-5.42	116.43	122.66
1	jF	118	MET	CB-CA-C	-5.42	98.55	109.55
1	jQ	133	TRP	CA-C-N	5.42	127.88	120.46
1	jQ	133	TRP	C-N-CA	5.42	127.88	120.46
1	jR	212	GLU	CA-C-N	5.42	128.08	120.28
1	jR	212	GLU	C-N-CA	5.42	128.08	120.28
1	jW	196	PRO	CA-N-CD	-5.42	104.42	112.00
1	k4	15	ILE	O-C-N	-5.42	116.89	122.63
1	k4	43	LEU	N-CA-C	5.42	118.68	111.75
1	ko	40	PHE	CA-CB-CG	5.42	119.22	113.80
1	ks	120	HIS	O-C-N	-5.42	116.61	122.79
1	kw	149	SER	CA-C-N	5.42	129.20	121.02
1	kw	149	SER	C-N-CA	5.42	129.20	121.02
1	kE	159	GLU	N-CA-C	5.42	117.28	109.48
1	kH	24	VAL	O-C-N	-5.42	116.61	121.87
1	kO	118	MET	CA-C-N	5.42	128.54	120.31
1	kO	118	MET	C-N-CA	5.42	128.54	120.31
1	kX	23	TRP	CA-CB-CG	5.42	123.89	113.60
1	kX	92	GLU	CA-C-O	-5.42	112.72	119.54
1	lj	230	VAL	O-C-N	-5.42	117.41	123.26
1	lu	74	ASN	CA-CB-CG	-5.42	107.18	112.60
1	lv	23	TRP	CA-C-N	5.42	127.59	120.60
1	lv	23	TRP	C-N-CA	5.42	127.59	120.60
1	lA	67	GLN	CA-C-N	5.42	127.98	120.29
1	lA	67	GLN	C-N-CA	5.42	127.98	120.29
1	lK	125	PRO	CA-C-N	5.42	128.17	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lK	125	PRO	C-N-CA	5.42	128.17	120.53
1	2a	4	GLN	N-CA-CB	5.42	117.98	109.69
1	2g	205	LEU	N-CA-C	5.42	117.19	111.28
1	2y	224	PRO	O-C-N	-5.42	115.33	122.64
1	2C	122	PRO	N-CD-CG	5.42	110.30	103.80
1	2N	108	THR	N-CA-C	-5.42	106.26	112.92
1	34	187	GLU	CA-C-O	5.42	125.33	119.15
1	3b	38	PRO	N-CA-CB	5.42	109.51	103.44
1	3k	12	HIS	ND1-CE1-NE2	5.42	113.82	108.40
1	3y	37	ILE	CA-C-N	5.42	125.06	119.05
1	3y	37	ILE	C-N-CA	5.42	125.06	119.05
1	3N	44	SER	O-C-N	-5.42	114.89	122.37
1	3O	37	ILE	CA-C-O	-5.42	112.69	119.95
1	3Z	163	ASP	O-C-N	-5.42	115.97	122.15
1	4f	6	LEU	CA-C-N	5.42	129.87	122.34
1	4f	6	LEU	C-N-CA	5.42	129.87	122.34
1	4h	171	THR	CA-C-N	5.42	127.54	120.28
1	4h	171	THR	C-N-CA	5.42	127.54	120.28
1	4k	160	PRO	N-CD-CG	5.42	111.33	103.20
1	4n	92	GLU	O-C-N	-5.42	115.40	120.55
1	4E	26	VAL	CA-CB-CG2	5.42	119.61	110.40
1	58	186	THR	CA-C-O	-5.42	114.81	120.55
1	59	129	ILE	O-C-N	-5.42	116.62	121.87
1	5a	78	ALA	N-CA-C	5.42	116.87	111.07
1	5b	192	GLN	O-C-N	-5.42	115.61	122.27
1	5e	142	VAL	N-CA-C	5.42	116.14	110.62
1	5g	22	ALA	N-CA-C	5.42	117.18	111.28
1	5i	97	ARG	NE-CZ-NH2	-5.42	114.33	119.20
1	5t	221	VAL	O-C-N	-5.42	117.41	123.26
1	5B	131	LYS	N-CA-C	5.42	117.89	111.33
1	5H	153	ILE	N-CA-CB	5.42	116.97	110.31
1	63	16	SER	O-C-N	-5.42	115.57	121.53
1	64	87	HIS	O-C-N	-5.42	116.28	122.89
1	67	97	ARG	NE-CZ-NH2	-5.42	114.33	119.20
1	6c	114	GLN	N-CA-C	5.42	117.18	111.28
1	6e	121	ASN	OD1-CG-ND2	-5.42	117.18	122.60
1	6u	103	ASP	CB-CA-C	-5.42	100.27	110.67
1	6F	74	ASN	N-CA-C	5.42	117.19	111.28
1	6G	219	GLN	CA-C-N	5.42	130.57	120.87
1	6G	219	GLN	C-N-CA	5.42	130.57	120.87
1	73	85	PRO	CB-CA-C	-5.42	104.77	111.11
1	7a	80	TRP	CB-CG-CD1	-5.42	118.78	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	62	HIS	CA-CB-CG	5.42	119.22	113.80
1	7t	179	GLN	CA-CB-CG	5.42	124.94	114.10
1	7y	137	GLY	N-CA-C	5.42	118.78	112.50
1	7C	11	VAL	O-C-N	-5.42	117.02	123.03
1	7C	148	THR	CA-C-O	5.42	124.77	119.08
1	7G	109	SER	CA-C-O	5.42	126.16	120.36
1	7J	148	THR	CA-C-O	-5.42	114.88	121.05
1	7P	86	VAL	O-C-N	-5.42	116.71	122.61
1	7R	92	GLU	CA-C-N	5.42	126.46	120.45
1	7R	92	GLU	C-N-CA	5.42	126.46	120.45
1	7T	34	PRO	CA-C-N	5.42	128.08	120.28
1	7T	34	PRO	C-N-CA	5.42	128.08	120.28
1	7W	40	PHE	CA-C-N	5.42	127.48	120.44
1	7W	40	PHE	C-N-CA	5.42	127.48	120.44
1	7W	207	PRO	CA-C-O	5.42	126.06	118.86
1	7Z	209	ALA	CA-C-N	5.42	130.83	120.97
1	7Z	209	ALA	C-N-CA	5.42	130.83	120.97
1	80	153	ILE	CA-CB-CG1	5.42	119.61	110.40
1	83	108	THR	N-CA-C	-5.42	105.30	112.94
1	8m	17	PRO	N-CA-CB	5.42	109.24	103.39
1	8m	226	HIS	O-C-N	5.42	128.92	122.20
1	8o	174	ALA	N-CA-C	5.42	119.06	112.23
1	8u	94	GLY	N-CA-C	5.42	121.28	112.61
1	8H	199	LYS	O-C-N	5.42	127.86	122.12
1	8L	179	GLN	N-CA-C	5.42	117.94	111.71
1	8O	82	ARG	N-CA-C	5.42	117.19	111.28
1	8S	226	HIS	N-CA-CB	5.42	119.64	110.49
1	9l	216	THR	CA-CB-OG1	5.42	117.72	109.60
1	9s	190	LEU	N-CA-C	5.42	117.88	111.33
1	9v	202	LEU	N-CA-C	5.42	116.86	111.07
1	9C	32	PHE	CA-C-N	5.42	133.44	122.45
1	9C	32	PHE	C-N-CA	5.42	133.44	122.45
1	9J	209	ALA	N-CA-C	5.42	117.72	110.35
1	9P	33	SER	O-C-N	-5.42	117.33	121.55
1	9Z	114	GLN	OE1-CD-NE2	-5.42	117.18	122.60
1	9Z	164	TYR	O-C-N	-5.42	116.38	122.12
1	ag	173	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	aj	191	VAL	N-CA-CB	-5.42	104.21	110.55
1	ak	86	VAL	N-CA-C	-5.42	100.51	108.85
1	am	121	ASN	CA-CB-CG	5.42	118.02	112.60
1	as	226	HIS	O-C-N	-5.42	116.99	123.27
1	12	36	VAL	CA-C-O	5.42	126.59	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	20	LEU	CA-C-N	5.42	127.98	120.29
1	au	20	LEU	C-N-CA	5.42	127.98	120.29
1	aE	175	GLU	CA-C-O	5.42	127.29	121.55
1	aF	212	GLU	N-CA-C	5.42	117.88	111.33
1	aK	21	ASN	CA-CB-CG	5.42	118.02	112.60
1	aK	189	LEU	CA-C-N	5.42	127.48	120.44
1	aK	189	LEU	C-N-CA	5.42	127.48	120.44
1	b0	214	MET	O-C-N	-5.42	116.38	122.12
1	b9	87	HIS	O-C-N	-5.42	116.17	122.89
1	bc	97	ARG	NE-CZ-NH2	5.42	124.07	119.20
1	bg	80	TRP	CE2-CD2-CE3	5.42	124.22	118.80
1	bm	215	MET	CG-SD-CE	-5.42	88.98	100.90
1	bq	183	ASN	CA-C-O	5.42	126.51	120.82
1	bu	207	PRO	CB-CA-C	5.42	118.44	111.56
1	bL	6	LEU	O-C-N	-5.42	115.97	122.15
1	bL	206	GLY	CA-C-N	5.42	125.73	119.93
1	bL	206	GLY	C-N-CA	5.42	125.73	119.93
1	bX	58	THR	N-CA-CB	5.42	118.89	110.44
1	c5	182	LYS	CB-CA-C	-5.42	101.80	110.79
1	c8	229	ARG	O-C-N	-5.42	116.04	122.65
1	cd	64	ALA	O-C-N	-5.42	116.49	122.07
1	cp	221	VAL	N-CA-C	5.42	116.68	109.37
1	cr	165	VAL	CA-C-N	5.42	127.48	120.44
1	cr	165	VAL	C-N-CA	5.42	127.48	120.44
1	cu	173	ARG	CB-CG-CD	5.42	123.76	111.30
1	cA	179	GLN	N-CA-C	5.42	117.18	111.28
1	cO	215	MET	CA-C-N	5.42	128.54	120.31
1	cO	215	MET	C-N-CA	5.42	128.54	120.31
1	cP	148	THR	N-CA-C	5.42	118.23	108.48
1	d6	92	GLU	CA-C-N	5.42	126.61	119.84
1	d6	92	GLU	C-N-CA	5.42	126.61	119.84
1	dn	199	LYS	N-CA-C	5.42	117.18	111.28
1	ds	98	GLU	CA-C-O	-5.42	114.66	119.75
1	dw	158	LYS	CA-C-N	5.42	128.02	120.65
1	dw	158	LYS	C-N-CA	5.42	128.02	120.65
1	1n	20	LEU	CA-C-N	5.42	127.54	120.28
1	1n	20	LEU	C-N-CA	5.42	127.54	120.28
1	ee	32	PHE	CB-CA-C	5.42	120.01	110.37
1	eg	153	ILE	CA-C-O	5.42	126.31	119.48
1	ev	209	ALA	CA-C-N	5.42	128.40	120.71
1	ev	209	ALA	C-N-CA	5.42	128.40	120.71
1	eW	19	THR	CA-C-N	5.42	127.81	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	19	THR	C-N-CA	5.42	127.81	120.44
1	eX	102	SER	CA-C-O	-5.42	113.98	120.10
1	fj	70	LYS	CA-C-N	5.42	127.48	120.44
1	fj	70	LYS	C-N-CA	5.42	127.48	120.44
1	fk	127	GLY	N-CA-C	5.42	120.47	113.27
1	fE	112	GLN	CA-C-N	5.42	127.54	120.28
1	fE	112	GLN	C-N-CA	5.42	127.54	120.28
1	fJ	167	ARG	CA-C-O	-5.42	114.81	120.55
1	g0	166	ASP	CA-C-O	5.42	126.29	120.55
1	g4	120	HIS	CA-CB-CG	5.42	119.22	113.80
1	c	165	VAL	CG1-CB-CG2	-5.42	98.89	110.80
1	1	166	ASP	CB-CA-C	5.42	119.39	110.88
1	w	156	GLY	O-C-N	-5.42	117.55	122.42
1	O	201	ILE	CB-CA-C	5.42	118.90	111.97
1	V	25	LYS	N-CA-C	5.42	117.26	111.36
1	5	102	SER	O-C-N	-5.42	116.38	122.12
1	9	196	PRO	CB-CA-C	5.42	120.50	111.56
1	gn	56	LEU	CA-C-O	5.42	125.10	119.14
1	gC	165	VAL	N-CA-CB	-5.42	103.18	110.54
1	gF	119	THR	CA-CB-OG1	5.42	117.72	109.60
1	gI	82	ARG	NH1-CZ-NH2	-5.42	112.26	119.30
1	gP	227	LYS	O-C-N	-5.42	116.90	123.13
1	gP	229	ARG	CA-C-N	5.42	128.69	120.13
1	gP	229	ARG	C-N-CA	5.42	128.69	120.13
1	gY	176	GLN	CA-C-O	5.42	125.90	119.56
1	1H	229	ARG	CB-CA-C	5.42	118.68	109.53
1	he	127	GLY	CA-C-N	5.42	127.54	120.28
1	he	127	GLY	C-N-CA	5.42	127.54	120.28
1	hs	56	LEU	O-C-N	-5.42	115.98	122.15
1	ip	16	SER	N-CA-C	5.42	116.49	109.72
1	iR	200	THR	CA-CB-CG2	5.42	119.71	110.50
1	jb	182	LYS	O-C-N	-5.42	116.38	122.12
1	jf	93	PRO	CB-CA-C	5.42	118.44	111.56
1	jp	168	PHE	N-CA-C	5.42	116.86	111.07
1	jx	116	GLY	O-C-N	-5.42	116.94	122.19
1	jE	62	HIS	CA-CB-CG	-5.42	108.39	113.80
1	jE	127	GLY	O-C-N	-5.42	116.98	122.18
1	jL	22	ALA	O-C-N	-5.42	116.49	122.07
1	jN	79	GLU	N-CA-C	5.42	117.18	111.28
1	jV	1	PRO	CB-CA-C	5.42	120.39	110.10
1	jZ	164	TYR	CA-C-N	5.42	127.88	120.46
1	jZ	164	TYR	C-N-CA	5.42	127.88	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kl	228	ALA	CB-CA-C	-5.42	101.72	109.84
1	kV	76	GLU	O-C-N	-5.42	115.61	122.27
1	kZ	80	TRP	CB-CG-CD1	-5.42	118.78	126.90
1	l2	62	HIS	ND1-CE1-NE2	5.42	113.81	108.40
1	la	193	ASN	OD1-CG-ND2	-5.42	117.19	122.60
1	lf	23	TRP	CA-C-N	5.42	128.11	120.42
1	lf	23	TRP	C-N-CA	5.42	128.11	120.42
1	28	156	GLY	O-C-N	-5.42	116.36	121.77
1	2p	24	VAL	CA-C-O	-5.42	115.32	120.95
1	2z	126	VAL	N-CA-C	5.42	117.86	111.09
1	2P	133	TRP	N-CA-C	5.42	117.18	111.28
1	2V	33	SER	CA-C-N	5.42	126.61	119.84
1	2V	33	SER	C-N-CA	5.42	126.61	119.84
1	34	121	ASN	O-C-N	-5.42	116.57	121.39
1	35	96	MET	N-CA-C	5.42	118.08	110.23
1	4M	143	ARG	N-CA-C	5.42	116.99	111.14
1	4U	89	GLY	CA-C-N	5.42	125.72	119.93
1	4U	89	GLY	C-N-CA	5.42	125.72	119.93
1	4Z	113	GLU	CA-C-N	5.42	127.85	120.54
1	4Z	113	GLU	C-N-CA	5.42	127.85	120.54
1	5p	203	LYS	N-CA-C	5.42	117.94	111.71
1	5t	117	TRP	CE2-CD2-CE3	-5.42	113.39	118.80
1	5z	169	TYR	O-C-N	-5.42	116.49	122.07
1	5O	100	ARG	CA-C-O	-5.42	115.01	121.89
1	5Q	133	TRP	CA-C-O	5.42	126.29	120.55
1	5Q	194	ALA	N-CA-C	5.42	118.29	110.28
1	5Z	123	PRO	CA-C-O	-5.42	115.24	121.36
1	6f	211	LEU	CA-C-N	5.42	127.48	120.44
1	6f	211	LEU	C-N-CA	5.42	127.48	120.44
1	6n	14	ALA	CA-C-N	5.42	127.76	120.50
1	6n	14	ALA	C-N-CA	5.42	127.76	120.50
1	72	81	ASP	O-C-N	-5.42	115.88	122.22
1	75	190	LEU	O-C-N	-5.42	114.99	122.46
1	7n	27	VAL	N-CA-C	5.42	116.14	110.62
1	7t	158	LYS	N-CA-C	5.42	119.61	112.89
1	7B	193	ASN	CA-CB-CG	-5.42	107.19	112.60
1	7G	62	HIS	O-C-N	-5.42	116.55	122.67
1	7N	210	THR	O-C-N	-5.42	116.84	122.96
1	8c	23	TRP	N-CA-C	5.42	117.18	111.28
1	8v	98	GLU	O-C-N	-5.42	115.37	121.43
1	8x	99	PRO	CA-C-N	5.42	131.02	122.36
1	8x	99	PRO	C-N-CA	5.42	131.02	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9a	206	GLY	CA-C-N	5.42	125.50	119.87
1	9a	206	GLY	C-N-CA	5.42	125.50	119.87
1	9c	206	GLY	CA-C-N	5.42	126.35	120.83
1	9c	206	GLY	C-N-CA	5.42	126.35	120.83
1	9r	221	VAL	O-C-N	5.42	127.09	122.16
1	9s	72	THR	N-CA-C	5.42	116.86	111.07
1	9v	160	PRO	N-CA-C	5.42	123.62	112.47
1	9B	12	HIS	CA-C-O	5.42	126.21	120.36
1	9Y	163	ASP	N-CA-C	-5.42	106.52	113.23
1	a6	132	ARG	CA-C-N	5.42	127.48	120.44
1	a6	132	ARG	C-N-CA	5.42	127.48	120.44
1	ao	18	ARG	CA-C-O	5.42	126.51	120.82
1	aw	12	HIS	N-CA-C	5.42	117.88	110.24
1	aA	23	TRP	N-CA-C	5.42	117.18	111.28
1	aC	193	ASN	CA-C-N	5.42	128.56	120.87
1	aC	193	ASN	C-N-CA	5.42	128.56	120.87
1	aJ	114	GLN	N-CA-C	5.42	116.86	111.07
1	aN	45	GLU	O-C-N	-5.42	115.65	123.07
1	aP	82	ARG	CA-C-N	5.42	127.54	120.28
1	aP	82	ARG	C-N-CA	5.42	127.54	120.28
1	aP	97	ARG	NH1-CZ-NH2	5.42	126.34	119.30
1	aP	112	GLN	O-C-N	-5.42	116.49	122.07
1	b6	132	ARG	NE-CZ-NH2	5.42	124.07	119.20
1	be	201	ILE	N-CA-CB	5.42	116.89	110.55
1	17	136	LEU	O-C-N	-5.42	116.38	122.12
1	17	141	ILE	CB-CA-C	5.42	119.11	112.02
1	bA	3	VAL	N-CA-C	5.42	116.18	107.73
1	bF	207	PRO	N-CA-C	-5.42	107.58	114.35
1	bH	50	GLN	N-CA-C	5.42	117.18	111.28
1	c6	177	ALA	CA-C-N	5.42	128.78	120.82
1	c6	177	ALA	C-N-CA	5.42	128.78	120.82
1	ch	6	LEU	CA-C-O	5.42	127.24	121.45
1	1e	133	TRP	CE2-CD2-CE3	5.42	124.22	118.80
1	cr	25	LYS	N-CA-CB	5.42	118.08	110.12
1	cu	228	ALA	CA-C-O	5.42	125.89	119.56
1	cC	166	ASP	CA-C-O	5.42	126.50	120.82
1	cF	133	TRP	NE1-CE2-CD2	5.42	114.44	107.40
1	1g	59	VAL	N-CA-C	5.42	116.79	110.62
1	cM	144	MET	CA-C-O	5.42	126.28	120.70
1	cY	180	GLU	N-CA-C	5.42	117.61	111.11
1	dG	95	GLN	N-CA-C	5.42	122.33	110.80
1	dS	86	VAL	CA-C-N	5.42	130.06	121.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dS	86	VAL	C-N-CA	5.42	130.06	121.99
1	dY	200	THR	CA-C-N	5.42	127.38	120.56
1	dY	200	THR	C-N-CA	5.42	127.38	120.56
1	e0	148	THR	N-CA-CB	5.42	119.64	110.49
1	e2	44	SER	N-CA-CB	5.42	119.92	110.98
1	eB	1	PRO	CA-CB-CG	-5.42	94.21	104.50
1	1t	52	LEU	N-CA-CB	5.42	118.67	110.28
1	eX	4	GLN	CG-CD-OE1	5.42	131.63	120.80
1	f7	13	GLN	O-C-N	-5.42	116.99	123.27
1	1A	170	LYS	N-CA-C	5.42	116.86	111.07
1	g0	141	ILE	O-C-N	-5.42	116.25	121.83
1	g6	132	ARG	NE-CZ-NH1	5.42	126.92	121.50
1	o	81	ASP	N-CA-C	-5.42	106.17	112.89
1	I	129	ILE	O-C-N	-5.42	114.40	121.82
1	N	197	ASP	O-C-N	5.42	127.86	122.12
1	8	83	LEU	CA-C-O	5.42	125.32	119.15
1	1C	120	HIS	CA-CB-CG	5.41	119.21	113.80
1	gC	130	TYR	CA-C-O	5.41	126.50	120.82
1	gX	55	MET	CB-CA-C	-5.41	102.35	110.90
1	gZ	115	ILE	CA-C-N	5.41	125.95	119.94
1	gZ	115	ILE	C-N-CA	5.41	125.95	119.94
1	1H	100	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	h9	5	ASN	N-CA-C	5.41	117.71	110.35
1	hf	132	ARG	N-CA-CB	5.41	117.86	110.01
1	hh	112	GLN	CA-C-N	5.41	127.53	120.28
1	hh	112	GLN	C-N-CA	5.41	127.53	120.28
1	hl	37	ILE	CA-C-O	-5.41	114.25	118.85
1	ht	26	VAL	N-CA-C	-5.41	105.25	110.72
1	ht	97	ARG	N-CA-C	5.41	122.33	110.80
1	hx	157	PRO	N-CA-C	-5.41	101.32	112.47
1	hD	193	ASN	N-CA-CB	-5.41	102.78	110.79
1	hE	139	ASN	N-CA-C	5.41	117.61	111.11
1	hF	18	ARG	CA-C-N	5.41	127.53	120.28
1	hF	18	ARG	C-N-CA	5.41	127.53	120.28
1	1L	140	LYS	CA-C-N	5.41	127.58	120.60
1	1L	140	LYS	C-N-CA	5.41	127.58	120.60
1	hN	114	GLN	N-CA-C	5.41	117.62	111.02
1	hO	12	HIS	CA-C-O	5.41	127.22	121.05
1	hP	190	LEU	O-C-N	5.41	127.86	122.12
1	hQ	131	LYS	N-CA-C	5.41	122.33	110.80
1	hZ	98	GLU	CA-C-N	5.41	125.88	120.14
1	hZ	98	GLU	C-N-CA	5.41	125.88	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i0	226	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	ij	51	ASP	O-C-N	-5.41	116.38	122.12
1	ix	58	THR	CA-C-O	5.41	126.28	120.70
1	iC	181	VAL	O-C-N	-5.41	116.25	121.83
1	iJ	104	ILE	O-C-N	5.41	127.21	121.91
1	iK	69	LEU	CA-C-O	5.41	126.50	120.82
1	iN	7	GLN	CA-C-O	5.41	125.24	119.34
1	iP	5	ASN	CA-CB-CG	-5.41	107.19	112.60
1	iR	219	GLN	CA-C-O	5.41	126.48	120.63
1	iS	143	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	iW	84	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	iW	97	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	j9	144	MET	O-C-N	-5.41	115.98	122.15
1	jf	82	ARG	CA-C-N	5.41	127.98	120.29
1	jf	82	ARG	C-N-CA	5.41	127.98	120.29
1	jn	167	ARG	CA-C-N	5.41	127.85	120.54
1	jn	167	ARG	C-N-CA	5.41	127.85	120.54
1	jo	18	ARG	CA-C-N	5.41	127.53	120.28
1	jo	18	ARG	C-N-CA	5.41	127.53	120.28
1	jw	148	THR	CA-CB-OG1	5.41	117.72	109.60
1	jx	69	LEU	CA-C-O	-5.41	114.81	120.55
1	jC	58	THR	CA-C-O	5.41	126.20	119.97
1	jP	88	ALA	N-CA-CB	5.41	118.00	110.04
1	jY	84	HIS	CA-C-N	5.41	126.61	119.84
1	jY	84	HIS	C-N-CA	5.41	126.61	119.84
1	k0	52	LEU	CA-C-N	5.41	127.48	120.44
1	k0	52	LEU	C-N-CA	5.41	127.48	120.44
1	k6	181	VAL	O-C-N	-5.41	116.62	121.87
1	20	82	ARG	N-CA-CB	5.41	118.08	110.12
1	ki	104	ILE	N-CA-C	5.41	116.79	110.62
1	kk	184	TRP	CA-CB-CG	5.41	123.89	113.60
1	km	210	THR	CA-C-N	5.41	127.98	120.29
1	km	210	THR	C-N-CA	5.41	127.98	120.29
1	kq	105	ALA	CA-C-O	-5.41	113.09	119.48
1	22	172	LEU	O-C-N	-5.41	116.38	122.12
1	kD	48	THR	CB-CA-C	5.41	117.99	109.27
1	kI	185	MET	CG-SD-CE	-5.41	88.99	100.90
1	kS	168	PHE	N-CA-C	5.41	117.61	111.11
1	kV	45	GLU	O-C-N	-5.41	116.14	122.96
1	kX	199	LYS	CA-C-N	5.41	127.98	120.29
1	kX	199	LYS	C-N-CA	5.41	127.98	120.29
1	l3	75	GLU	N-CA-C	5.41	117.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l3	143	ARG	N-CA-C	5.41	116.99	111.14
1	26	193	ASN	CA-CB-CG	-5.41	107.19	112.60
1	lc	101	GLY	CA-C-O	5.41	126.11	120.80
1	lp	2	ILE	N-CA-C	5.41	116.33	110.21
1	lA	154	ARG	O-C-N	-5.41	116.76	123.36
1	lC	28	GLU	CA-C-N	5.41	127.48	120.44
1	lC	28	GLU	C-N-CA	5.41	127.48	120.44
1	lC	215	MET	CA-C-O	5.41	125.83	119.28
1	lJ	6	LEU	O-C-N	-5.41	116.81	121.85
1	lL	143	ARG	O-C-N	-5.41	116.24	122.09
1	2a	182	LYS	CA-C-O	5.41	126.16	120.42
1	lP	114	GLN	N-CA-C	5.41	117.18	111.28
1	2f	45	GLU	O-C-N	-5.41	116.70	123.04
1	2p	203	LYS	CA-C-N	5.41	131.28	122.67
1	2p	203	LYS	C-N-CA	5.41	131.28	122.67
1	2w	95	GLN	OE1-CD-NE2	5.41	128.01	122.60
1	2G	25	LYS	N-CA-C	5.41	117.26	111.36
1	2H	182	LYS	N-CA-C	5.41	117.61	111.11
1	2N	8	GLY	O-C-N	-5.41	115.66	122.70
1	2P	37	ILE	N-CA-CB	5.41	113.91	110.50
1	3g	15	ILE	N-CA-C	5.41	116.39	109.30
1	3u	58	THR	CA-CB-OG1	5.41	117.72	109.60
1	3y	139	ASN	OD1-CG-ND2	5.41	128.01	122.60
1	3R	69	LEU	CB-CA-C	-5.41	102.38	110.88
1	3T	58	THR	O-C-N	-5.41	115.89	122.22
1	3W	143	ARG	CA-C-N	5.41	127.53	120.28
1	3W	143	ARG	C-N-CA	5.41	127.53	120.28
1	3X	210	THR	O-C-N	-5.41	115.46	122.77
1	4e	114	GLN	CA-CB-CG	-5.41	103.28	114.10
1	4h	197	ASP	CA-CB-CG	5.41	118.01	112.60
1	4q	63	GLN	CA-C-N	5.41	127.98	120.29
1	4q	63	GLN	C-N-CA	5.41	127.98	120.29
1	4D	36	VAL	N-CA-C	5.41	116.14	110.62
1	4T	94	GLY	O-C-N	-5.41	115.94	122.38
1	4X	125	PRO	CB-CA-C	5.41	121.10	112.06
1	55	142	VAL	O-C-N	-5.41	114.96	122.05
1	5e	72	THR	CA-C-O	5.41	126.29	120.55
1	5o	61	GLY	CA-C-O	-5.41	116.87	122.28
1	5p	139	ASN	CB-CA-C	5.41	119.38	110.88
1	5t	143	ARG	CA-C-O	5.41	126.50	120.82
1	5w	191	VAL	CA-CB-CG2	5.41	119.60	110.40
1	61	3	VAL	CA-CB-CG2	-5.41	101.20	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	63	12	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	6r	91	ILE	CA-CB-CG1	5.41	119.60	110.40
1	6x	80	TRP	CA-C-O	-5.41	114.81	120.55
1	6z	12	HIS	N-CA-C	5.41	118.08	109.96
1	6U	164	TYR	CB-CA-C	5.41	119.78	110.79
1	6X	29	GLU	CA-C-O	5.41	125.09	119.14
1	71	166	ASP	CA-CB-CG	-5.41	107.19	112.60
1	77	104	ILE	CB-CA-C	-5.41	104.75	112.22
1	7b	120	HIS	CA-CB-CG	-5.41	108.39	113.80
1	7i	154	ARG	N-CA-C	-5.41	100.70	108.60
1	7t	185	MET	CG-SD-CE	-5.41	88.99	100.90
1	7v	172	LEU	N-CA-C	-5.41	105.46	111.36
1	7w	53	ASN	CA-CB-CG	5.41	118.01	112.60
1	7D	103	ASP	CA-C-O	5.41	126.28	120.70
1	7E	229	ARG	CA-CB-CG	5.41	124.92	114.10
1	7Q	164	TYR	CA-C-N	5.41	127.88	120.46
1	7Q	164	TYR	C-N-CA	5.41	127.88	120.46
1	7U	143	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	80	64	ALA	CA-C-N	5.41	127.48	120.44
1	80	64	ALA	C-N-CA	5.41	127.48	120.44
1	86	110	THR	CA-CB-OG1	5.41	117.72	109.60
1	8a	23	TRP	CE3-CZ3-CH2	5.41	128.14	121.10
1	8b	194	ALA	O-C-N	-5.41	116.62	122.79
1	8h	92	GLU	N-CA-C	5.41	121.77	109.81
1	8j	166	ASP	CA-CB-CG	5.41	118.01	112.60
1	8k	80	TRP	CA-C-O	-5.41	113.75	119.97
1	8n	192	GLN	N-CA-CB	5.41	118.08	110.12
1	8t	13	GLN	N-CA-CB	5.41	119.00	110.23
1	8K	155	GLN	CA-C-O	5.41	127.09	120.92
1	8O	144	MET	N-CA-C	5.41	117.18	111.28
1	97	167	ARG	CA-C-N	5.41	127.48	120.44
1	97	167	ARG	C-N-CA	5.41	127.48	120.44
1	9l	161	PHE	CA-CB-CG	5.41	119.21	113.80
1	9r	133	TRP	CB-CG-CD2	5.41	134.38	126.80
1	9s	115	ILE	CA-CB-CG2	-5.41	101.30	110.50
1	9L	125	PRO	CA-C-O	-5.41	117.21	121.38
1	9Q	130	TYR	N-CA-CB	-5.41	101.87	109.94
1	9R	87	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	9S	14	ALA	O-C-N	-5.41	116.62	122.79
1	a1	176	GLN	CG-CD-NE2	5.41	124.52	116.40
1	ag	82	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	ah	66	MET	N-CA-C	5.41	117.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ai	10	MET	N-CA-C	5.41	117.51	110.53
1	aj	20	LEU	N-CA-CB	5.41	118.01	109.94
1	aj	183	ASN	CA-C-O	5.41	126.29	120.55
1	an	219	GLN	N-CA-CB	5.41	118.43	109.88
1	ap	70	LYS	O-C-N	-5.41	116.38	122.12
1	az	87	HIS	N-CA-CB	5.41	117.92	109.85
1	aD	113	GLU	CA-C-N	5.41	127.53	120.28
1	aD	113	GLU	C-N-CA	5.41	127.53	120.28
1	aF	27	VAL	CA-C-N	-5.41	113.08	120.44
1	aF	27	VAL	C-N-CA	-5.41	113.08	120.44
1	aI	169	TYR	CB-CG-CD1	5.41	128.92	120.80
1	aS	12	HIS	CB-CA-C	5.41	118.34	109.90
1	15	112	GLN	N-CA-C	5.41	118.68	111.75
1	b3	153	ILE	CA-C-N	5.41	128.45	120.82
1	b3	153	ILE	C-N-CA	5.41	128.45	120.82
1	b8	183	ASN	N-CA-CB	5.41	118.08	110.12
1	be	153	ILE	N-CA-C	5.41	118.33	109.78
1	bl	100	ARG	O-C-N	-5.41	116.35	122.68
1	bz	111	LEU	N-CA-C	5.41	117.94	111.71
1	19	216	THR	CA-C-N	5.41	129.44	120.94
1	19	216	THR	C-N-CA	5.41	129.44	120.94
1	bD	99	PRO	N-CA-C	5.41	119.99	111.38
1	bK	34	PRO	N-CA-C	5.41	121.66	113.81
1	bY	62	HIS	CA-C-N	5.41	127.85	120.54
1	bY	62	HIS	C-N-CA	5.41	127.85	120.54
1	bZ	58	THR	CA-C-N	5.41	127.75	120.50
1	bZ	58	THR	C-N-CA	5.41	127.75	120.50
1	1d	10	MET	CA-C-O	5.41	126.86	120.96
1	cD	210	THR	O-C-N	5.41	129.15	123.03
1	cE	140	LYS	O-C-N	5.41	127.86	122.12
1	cO	181	VAL	CB-CA-C	5.41	119.45	112.14
1	cT	198	CYS	CA-C-O	-5.41	114.81	120.55
1	cU	145	TYR	N-CA-C	5.41	117.94	111.71
1	cX	37	ILE	N-CA-CB	5.41	114.67	110.45
1	d1	184	TRP	CE2-CD2-CE3	5.41	124.21	118.80
1	d4	167	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	dh	153	ILE	O-C-N	-5.41	116.77	122.83
1	do	34	PRO	CA-C-O	5.41	126.92	119.18
1	dt	150	ILE	CA-C-O	5.41	126.58	120.95
1	dA	80	TRP	CG-CD2-CE3	5.41	139.31	133.90
1	dB	143	ARG	CA-C-N	5.41	127.98	120.29
1	dB	143	ARG	C-N-CA	5.41	127.98	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dV	4	GLN	O-C-N	-5.41	115.78	122.82
1	1q	150	ILE	CA-C-O	5.41	126.62	119.53
1	em	84	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	ew	114	GLN	CB-CA-C	-5.41	100.28	110.67
1	1s	163	ASP	CA-C-O	-5.41	115.12	120.70
1	eH	180	GLU	O-C-N	-5.41	116.38	122.12
1	f6	199	LYS	N-CA-C	5.41	117.18	111.28
1	f9	78	ALA	CA-C-O	-5.41	114.81	120.55
1	fk	18	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	fm	184	TRP	CE2-CD2-CE3	-5.41	113.39	118.80
1	fn	56	LEU	CA-C-N	5.41	127.53	120.28
1	fn	56	LEU	C-N-CA	5.41	127.53	120.28
1	fp	142	VAL	CB-CA-C	-5.41	104.75	112.22
1	fs	103	ASP	CA-CB-CG	5.41	118.01	112.60
1	fz	74	ASN	CA-CB-CG	-5.41	107.19	112.60
1	fI	153	ILE	N-CA-C	5.41	116.24	108.93
1	1z	162	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	fO	54	THR	N-CA-CB	5.41	117.86	110.01
1	fV	48	THR	CA-CB-OG1	5.41	117.72	109.60
1	n	131	LYS	CA-C-O	-5.41	114.81	120.55
1	B	84	HIS	CA-CB-CG	-5.41	108.39	113.80
1	C	187	GLU	CA-C-N	5.41	128.32	120.79
1	C	187	GLU	C-N-CA	5.41	128.32	120.79
1	O	87	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	W	115	ILE	CA-C-N	5.41	125.95	119.94
1	W	115	ILE	C-N-CA	5.41	125.95	119.94
1	g9	50	GLN	CB-CG-CD	5.41	121.80	112.60
1	gr	38	PRO	N-CA-CB	5.41	109.26	103.52
1	gr	226	HIS	CA-CB-CG	-5.41	108.39	113.80
1	1D	223	GLY	CA-C-N	5.41	125.42	119.90
1	1D	223	GLY	C-N-CA	5.41	125.42	119.90
1	gs	178	SER	N-CA-C	5.41	117.52	110.43
1	1E	210	THR	CB-CA-C	5.41	120.69	110.62
1	gJ	171	THR	CA-C-N	5.41	127.53	120.28
1	gJ	171	THR	C-N-CA	5.41	127.53	120.28
1	gO	5	ASN	CA-C-N	5.41	132.03	122.67
1	gO	5	ASN	C-N-CA	5.41	132.03	122.67
1	gU	210	THR	CA-CB-OG1	5.41	117.72	109.60
1	gX	219	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	h3	125	PRO	N-CA-CB	-5.41	98.22	102.28
1	1H	179	GLN	O-C-N	-5.41	116.38	122.12
1	hG	128	GLU	O-C-N	-5.41	115.98	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hM	135	ILE	O-C-N	-5.41	115.69	121.80
1	1P	222	GLY	CA-C-O	5.41	127.52	121.67
1	ip	19	THR	CA-CB-CG2	5.41	119.70	110.50
1	1Q	5	ASN	CA-C-N	5.41	130.53	122.74
1	1Q	5	ASN	C-N-CA	5.41	130.53	122.74
1	iE	51	ASP	CB-CA-C	-5.41	102.38	110.88
1	jc	71	GLU	N-CA-C	5.41	117.26	111.36
1	k2	14	ALA	CA-C-N	5.41	128.43	120.91
1	k2	14	ALA	C-N-CA	5.41	128.43	120.91
1	20	202	LEU	O-C-N	-5.41	116.38	122.12
1	kt	12	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	kx	5	ASN	CA-CB-CG	5.41	118.01	112.60
1	ky	73	ILE	N-CA-C	5.41	116.79	110.62
1	kC	68	MET	N-CA-C	5.41	116.86	111.07
1	25	213	GLU	N-CA-CB	-5.41	101.97	110.30
1	li	170	LYS	N-CA-C	5.41	117.18	111.28
1	lt	36	VAL	CA-C-O	-5.41	115.43	121.17
1	lG	108	THR	N-CA-C	-5.41	103.56	111.30
1	lK	120	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	2n	212	GLU	CA-C-N	5.41	127.97	120.29
1	2n	212	GLU	C-N-CA	5.41	127.97	120.29
1	2y	143	ARG	CB-CA-C	-5.41	101.65	110.85
1	36	82	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	3l	198	CYS	CA-C-N	5.41	127.53	120.28
1	3l	198	CYS	C-N-CA	5.41	127.53	120.28
1	3y	111	LEU	N-CA-C	5.41	117.88	111.33
1	56	46	GLY	CA-C-N	5.41	128.53	120.95
1	56	46	GLY	C-N-CA	5.41	128.53	120.95
1	59	50	GLN	CA-C-N	5.41	127.80	120.44
1	59	50	GLN	C-N-CA	5.41	127.80	120.44
1	5l	159	GLU	CA-C-N	5.41	125.41	119.89
1	5l	159	GLU	C-N-CA	5.41	125.41	119.89
1	5o	62	HIS	N-CA-C	5.41	119.04	111.90
1	5A	106	GLY	O-C-N	-5.41	115.15	122.35
1	5V	42	ALA	CA-C-N	5.41	130.61	121.14
1	5V	42	ALA	C-N-CA	5.41	130.61	121.14
1	5X	19	THR	CA-C-O	-5.41	115.13	120.70
1	65	200	THR	CA-C-N	5.41	127.88	120.46
1	65	200	THR	C-N-CA	5.41	127.88	120.46
1	6y	53	ASN	N-CA-C	5.41	117.26	111.36
1	6D	115	ILE	CA-C-N	5.41	132.02	121.41
1	6D	115	ILE	C-N-CA	5.41	132.02	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	48	THR	N-CA-CB	5.41	117.35	110.04
1	75	11	VAL	N-CA-CB	5.41	118.72	111.90
1	7f	84	HIS	CA-C-O	-5.41	112.96	119.67
1	7i	156	GLY	CA-C-N	5.41	126.60	119.84
1	7i	156	GLY	C-N-CA	5.41	126.60	119.84
1	7o	64	ALA	CA-C-N	5.41	127.80	120.38
1	7o	64	ALA	C-N-CA	5.41	127.80	120.38
1	7y	162	ARG	CG-CD-NE	-5.41	100.09	112.00
1	7L	21	ASN	CA-C-N	5.41	127.48	120.44
1	7L	21	ASN	C-N-CA	5.41	127.48	120.44
1	7Q	192	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	7X	7	GLN	CA-CB-CG	5.41	124.92	114.10
1	8c	11	VAL	CA-C-N	5.41	130.19	122.72
1	8c	11	VAL	C-N-CA	5.41	130.19	122.72
1	8o	131	LYS	N-CA-C	5.41	117.18	111.28
1	8x	26	VAL	CA-C-O	-5.41	115.04	121.05
1	8C	158	LYS	CA-C-N	5.41	127.91	120.39
1	8C	158	LYS	C-N-CA	5.41	127.91	120.39
1	8V	226	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	95	210	THR	CA-C-N	5.41	127.53	120.28
1	95	210	THR	C-N-CA	5.41	127.53	120.28
1	9k	159	GLU	CA-C-N	5.41	126.61	119.84
1	9k	159	GLU	C-N-CA	5.41	126.61	119.84
1	9r	162	ARG	CA-C-O	5.41	126.29	120.55
1	9K	85	PRO	CA-C-N	5.41	127.75	120.50
1	9K	85	PRO	C-N-CA	5.41	127.75	120.50
1	a7	27	VAL	CA-C-O	5.41	126.59	120.85
1	a8	139	ASN	CB-CA-C	-5.41	101.81	110.79
1	12	171	THR	CA-C-O	5.41	126.18	119.79
1	aB	12	HIS	CA-CB-CG	-5.41	108.39	113.80
1	aG	5	ASN	CA-CB-CG	-5.41	107.19	112.60
1	aM	65	ALA	N-CA-C	5.41	116.86	111.07
1	aQ	132	ARG	CA-C-N	5.41	127.53	120.28
1	aQ	132	ARG	C-N-CA	5.41	127.53	120.28
1	aU	73	ILE	N-CA-C	5.41	115.61	110.42
1	bJ	190	LEU	CA-C-O	5.41	126.29	120.55
1	bR	4	GLN	CB-CG-CD	5.41	121.80	112.60
1	cc	168	PHE	CA-C-O	-5.41	115.13	120.70
1	cz	117	TRP	CE3-CZ3-CH2	5.41	128.13	121.10
1	de	160	PRO	O-C-N	-5.41	116.48	123.03
1	dv	40	PHE	O-C-N	5.41	127.64	122.07
1	dE	169	TYR	N-CA-C	5.41	118.10	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dF	57	ASN	N-CA-C	-5.41	105.54	111.82
1	eq	195	ASN	CB-CA-C	5.41	118.33	109.46
1	eK	215	MET	N-CA-C	5.41	117.18	111.28
1	eP	62	HIS	N-CA-C	5.41	118.90	111.54
1	eP	94	GLY	O-C-N	-5.41	115.33	122.42
1	f8	95	GLN	O-C-N	-5.41	116.86	123.19
1	fk	15	ILE	O-C-N	-5.41	116.71	122.61
1	fO	185	MET	O-C-N	-5.41	115.18	122.43
1	fY	221	VAL	N-CA-CB	5.41	119.18	111.82
1	g7	129	ILE	CA-C-N	5.41	127.48	120.44
1	g7	129	ILE	C-N-CA	5.41	127.48	120.44
1	c	10	MET	CG-SD-CE	-5.41	88.99	100.90
1	g	150	ILE	N-CA-C	5.41	119.02	112.80
1	t	16	SER	N-CA-C	5.41	116.70	109.83
1	u	165	VAL	O-C-N	-5.41	116.61	121.91
1	P	103	ASP	CA-CB-CG	-5.41	107.19	112.60
1	V	26	VAL	CA-C-N	5.41	127.38	120.56
1	V	26	VAL	C-N-CA	5.41	127.38	120.56
1	g8	229	ARG	CA-C-N	5.41	127.75	120.50
1	g8	229	ARG	C-N-CA	5.41	127.75	120.50
1	g9	27	VAL	N-CA-C	5.41	115.61	110.53
1	gb	113	GLU	O-C-N	-5.41	116.38	122.12
1	gf	161	PHE	CB-CA-C	5.41	121.19	110.42
1	gz	173	ARG	O-C-N	-5.41	115.89	122.22
1	gA	124	ILE	N-CA-CB	5.41	118.08	111.21
1	gF	62	HIS	CB-CA-C	-5.41	104.61	111.86
1	gZ	17	PRO	N-CA-CB	-5.41	98.06	103.20
1	gZ	117	TRP	N-CA-CB	5.41	118.07	110.12
1	h2	84	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	h3	176	GLN	CA-C-O	5.41	125.97	119.59
1	hk	120	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	hl	143	ARG	CB-CG-CD	5.41	123.74	111.30
1	ho	198	CYS	CA-C-O	5.41	126.19	119.97
1	hy	114	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	hz	53	ASN	OD1-CG-ND2	-5.41	117.19	122.60
1	hC	141	ILE	CB-CA-C	-5.41	104.75	112.22
1	hN	39	MET	N-CA-C	5.41	116.86	111.07
1	hZ	195	ASN	CA-CB-CG	5.41	118.01	112.60
1	1N	201	ILE	N-CA-CB	5.41	117.90	110.54
1	ib	175	GLU	N-CA-CB	5.41	117.97	109.69
1	it	39	MET	CG-SD-CE	5.41	112.80	100.90
1	it	70	LYS	N-CA-C	5.41	117.18	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	164	TYR	CA-C-N	5.41	127.87	120.46
1	iy	164	TYR	C-N-CA	5.41	127.87	120.46
1	iG	142	VAL	CA-C-O	5.41	126.91	121.17
1	iG	199	LYS	CA-C-O	5.41	126.50	120.82
1	j0	87	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	j6	2	ILE	CA-CB-CG2	-5.41	101.30	110.50
1	jf	34	PRO	O-C-N	5.41	128.28	122.17
1	jh	115	ILE	CA-C-O	-5.41	114.78	120.57
1	1V	97	ARG	N-CA-C	5.41	117.28	110.24
1	jn	51	ASP	CA-C-N	5.41	127.53	120.28
1	jn	51	ASP	C-N-CA	5.41	127.53	120.28
1	jn	212	GLU	N-CA-C	5.41	117.18	111.28
1	jo	226	HIS	CB-CG-CD2	-5.41	124.17	131.20
1	jp	110	THR	O-C-N	-5.41	116.62	122.79
1	jw	98	GLU	N-CA-C	5.41	121.77	109.81
1	jJ	197	ASP	CA-CB-CG	5.41	118.01	112.60
1	1Y	200	THR	OG1-CB-CG2	-5.41	98.48	109.30
1	jT	205	LEU	CA-C-O	5.41	126.29	120.55
1	k0	134	ILE	CA-C-O	-5.41	115.11	120.85
1	k6	104	ILE	N-CA-C	5.41	116.14	110.62
1	k9	167	ARG	CB-CG-CD	5.41	123.74	111.30
1	kf	84	HIS	CA-C-O	5.41	124.57	119.59
1	kn	141	ILE	CA-C-N	5.41	131.71	121.97
1	kn	141	ILE	C-N-CA	5.41	131.71	121.97
1	kp	149	SER	CA-C-O	-5.41	115.66	121.56
1	ks	201	ILE	CA-C-N	5.41	127.97	120.29
1	ks	201	ILE	C-N-CA	5.41	127.97	120.29
1	ku	87	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	kx	164	TYR	CA-C-O	5.41	126.21	120.10
1	23	109	SER	CB-CA-C	-5.41	99.03	109.37
1	kJ	10	MET	CA-C-N	-5.41	116.05	123.14
1	kJ	10	MET	C-N-CA	-5.41	116.05	123.14
1	kQ	222	GLY	O-C-N	5.41	128.72	122.60
1	l0	163	ASP	CA-C-N	5.41	127.53	120.28
1	l0	163	ASP	C-N-CA	5.41	127.53	120.28
1	l7	221	VAL	N-CA-CB	5.41	116.83	110.82
1	lh	84	HIS	CA-CB-CG	-5.41	108.39	113.80
1	28	12	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	ls	124	ILE	N-CA-C	-5.41	97.19	108.88
1	lu	221	VAL	O-C-N	-5.41	117.42	123.26
1	lD	47	ALA	CB-CA-C	5.41	119.16	110.29
1	lF	23	TRP	CG-CD1-NE1	-5.41	103.17	110.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2k	5	ASN	CB-CG-OD1	5.41	131.62	120.80
1	2u	200	THR	N-CA-C	5.41	116.86	111.07
1	2C	154	ARG	O-C-N	-5.41	117.22	123.33
1	2M	218	CYS	N-CA-C	5.41	119.17	111.92
1	2Y	149	SER	CA-C-N	5.41	129.02	120.47
1	2Y	149	SER	C-N-CA	5.41	129.02	120.47
1	3d	75	GLU	N-CA-C	5.41	117.18	111.28
1	3f	161	PHE	N-CA-C	5.41	117.18	111.28
1	3g	1	PRO	N-CA-CB	5.41	108.95	103.00
1	3m	55	MET	CA-C-O	5.41	126.16	120.42
1	3I	21	ASN	CA-CB-CG	5.41	118.01	112.60
1	3V	4	GLN	CB-CG-CD	5.41	121.80	112.60
1	3Z	112	GLN	O-C-N	-5.41	116.39	122.12
1	42	76	GLU	CA-C-N	5.41	127.97	120.29
1	42	76	GLU	C-N-CA	5.41	127.97	120.29
1	4f	166	ASP	CA-CB-CG	5.41	118.01	112.60
1	4j	80	TRP	CB-CA-C	-5.41	102.39	110.88
1	4m	188	THR	O-C-N	-5.41	115.54	121.76
1	4q	162	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	4z	106	GLY	CA-C-N	5.41	127.53	120.28
1	4z	106	GLY	C-N-CA	5.41	127.53	120.28
1	4B	215	MET	N-CA-C	5.41	117.26	111.36
1	4D	176	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	5d	10	MET	O-C-N	-5.41	116.86	123.30
1	5i	188	THR	O-C-N	-5.41	115.69	122.35
1	5l	16	SER	O-C-N	-5.41	114.44	121.10
1	5s	202	LEU	O-C-N	-5.41	115.89	122.22
1	5v	125	PRO	CA-C-O	-5.41	115.60	121.77
1	5x	125	PRO	N-CA-CB	5.41	106.68	102.73
1	5z	102	SER	CA-C-O	5.41	126.28	120.55
1	5H	49	PRO	CA-N-CD	-5.41	104.43	112.00
1	5L	9	GLN	CA-C-N	5.41	128.77	120.82
1	5L	9	GLN	C-N-CA	5.41	128.77	120.82
1	67	18	ARG	CA-C-N	5.41	127.53	120.28
1	67	18	ARG	C-N-CA	5.41	127.53	120.28
1	67	49	PRO	N-CA-CB	5.41	108.93	103.25
1	6j	97	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	6m	84	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	6w	97	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	6S	115	ILE	CA-C-N	5.41	125.98	119.98
1	6S	115	ILE	C-N-CA	5.41	125.98	119.98
1	70	177	ALA	N-CA-C	5.41	118.07	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	196	PRO	CA-C-N	5.41	128.07	120.28
1	72	196	PRO	C-N-CA	5.41	128.07	120.28
1	73	92	GLU	CB-CG-CD	-5.41	103.40	112.60
1	77	167	ARG	NH1-CZ-NH2	-5.41	112.27	119.30
1	7f	14	ALA	N-CA-CB	5.41	117.97	109.69
1	7g	70	LYS	CA-C-N	5.41	127.84	120.54
1	7g	70	LYS	C-N-CA	5.41	127.84	120.54
1	7j	68	MET	N-CA-C	5.41	117.93	111.71
1	7k	66	MET	CG-SD-CE	-5.41	89.00	100.90
1	7o	173	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	7t	5	ASN	OD1-CG-ND2	-5.41	117.19	122.60
1	7y	121	ASN	CA-CB-CG	5.41	118.01	112.60
1	7A	44	SER	N-CA-CB	5.41	118.46	110.56
1	7E	183	ASN	CA-C-O	-5.41	114.68	120.42
1	7N	193	ASN	O-C-N	-5.41	115.58	122.34
1	7P	119	THR	CA-CB-CG2	-5.41	101.30	110.50
1	8l	187	GLU	CA-C-N	5.41	129.28	121.98
1	8l	187	GLU	C-N-CA	5.41	129.28	121.98
1	8t	197	ASP	CA-C-N	5.41	128.53	120.31
1	8t	197	ASP	C-N-CA	5.41	128.53	120.31
1	96	176	GLN	O-C-N	-5.41	115.58	122.34
1	9e	167	ARG	CG-CD-NE	-5.41	100.10	112.00
1	9y	87	HIS	N-CA-C	5.41	117.78	109.07
1	9A	146	SER	O-C-N	-5.41	116.15	121.18
1	9K	123	PRO	CA-C-N	5.41	126.28	122.60
1	9K	123	PRO	C-N-CA	5.41	126.28	122.60
1	9Y	28	GLU	O-C-N	-5.41	116.38	122.12
1	aa	121	ASN	CA-C-O	-5.41	115.73	120.60
1	ai	94	GLY	CA-C-N	5.41	132.68	121.32
1	ai	94	GLY	C-N-CA	5.41	132.68	121.32
1	12	5	ASN	CB-CG-OD1	5.41	131.62	120.80
1	ay	82	ARG	CB-CG-CD	5.41	123.75	111.30
1	13	45	GLU	N-CA-CB	-5.41	102.15	110.16
1	aE	40	PHE	N-CA-C	5.41	117.18	111.28
1	aF	228	ALA	N-CA-C	5.41	117.78	111.02
1	aO	230	VAL	O-C-N	-5.41	116.89	122.14
1	aU	50	GLN	CA-C-O	5.41	126.69	120.90
1	aU	87	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	aV	227	LYS	O-C-N	-5.41	116.63	123.12
1	15	131	LYS	CA-C-N	5.41	127.47	120.44
1	15	131	LYS	C-N-CA	5.41	127.47	120.44
1	aZ	36	VAL	CA-CB-CG2	5.41	119.60	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b3	100	ARG	N-CA-CB	5.41	118.77	110.49
1	b9	179	GLN	N-CA-C	5.41	117.18	111.28
1	bb	195	ASN	O-C-N	5.41	127.48	121.53
1	bg	30	LYS	O-C-N	-5.41	115.69	122.35
1	bi	147	PRO	N-CA-C	5.41	119.70	111.15
1	bo	133	TRP	O-C-N	-5.41	116.50	122.07
1	bt	120	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	bx	223	GLY	CA-C-N	5.41	126.60	119.84
1	bx	223	GLY	C-N-CA	5.41	126.60	119.84
1	bO	119	THR	CA-C-O	-5.41	113.10	119.05
1	bQ	215	MET	N-CA-C	-5.41	106.63	113.18
1	bY	161	PHE	CA-C-N	5.41	127.53	120.28
1	bY	161	PHE	C-N-CA	5.41	127.53	120.28
1	c5	14	ALA	CB-CA-C	5.41	118.70	109.72
1	1c	16	SER	CA-C-O	-5.41	114.13	119.49
1	1d	192	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	cj	31	ALA	O-C-N	-5.41	115.39	122.59
1	ck	219	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	cH	107	THR	CA-CB-OG1	5.41	117.72	109.60
1	cL	174	ALA	N-CA-CB	5.41	118.07	110.12
1	cS	219	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	cT	204	ALA	CA-C-N	5.41	127.97	120.29
1	cT	204	ALA	C-N-CA	5.41	127.97	120.29
1	cU	159	GLU	CA-C-O	-5.41	114.80	120.70
1	cW	92	GLU	CB-CA-C	5.41	116.89	108.61
1	d6	43	LEU	O-C-N	-5.41	115.18	122.43
1	dn	195	ASN	CA-C-N	5.41	126.60	119.84
1	dn	195	ASN	C-N-CA	5.41	126.60	119.84
1	do	21	ASN	N-CA-C	5.41	117.18	111.28
1	dr	90	PRO	N-CA-CB	5.41	108.93	103.25
1	dC	168	PHE	CD1-CG-CD2	5.41	126.72	118.60
1	dD	70	LYS	CB-CG-CD	5.41	123.75	111.30
1	dG	66	MET	O-C-N	-5.41	115.98	122.15
1	dH	140	LYS	N-CA-C	5.41	117.18	111.28
1	e5	168	PHE	CA-C-N	5.41	127.53	120.28
1	e5	168	PHE	C-N-CA	5.41	127.53	120.28
1	e5	213	GLU	N-CA-C	5.41	117.93	111.71
1	e8	27	VAL	CA-CB-CG2	-5.41	101.20	110.40
1	e8	224	PRO	N-CA-C	5.41	123.62	112.47
1	ea	113	GLU	CB-CA-C	-5.41	101.65	110.85
1	eg	184	TRP	CB-CG-CD1	-5.41	118.78	126.90
1	eh	208	ALA	CA-C-O	5.41	125.32	119.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ej	221	VAL	O-C-N	-5.41	115.83	122.97
1	eu	82	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	eC	100	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	eD	179	GLN	N-CA-CB	-5.41	101.41	110.39
1	eG	172	LEU	N-CA-C	5.41	116.86	111.07
1	eI	87	HIS	CA-C-N	5.41	129.03	121.02
1	eI	87	HIS	C-N-CA	5.41	129.03	121.02
1	eW	166	ASP	CA-CB-CG	5.41	118.01	112.60
1	eZ	53	ASN	CA-CB-CG	-5.41	107.19	112.60
1	f2	21	ASN	O-C-N	-5.41	116.50	122.07
1	f9	40	PHE	CA-CB-CG	5.41	119.21	113.80
1	fl	2	ILE	N-CA-C	5.41	117.42	109.63
1	fn	162	ARG	CD-NE-CZ	-5.41	116.82	124.40
1	fq	110	THR	CA-C-O	-5.41	115.11	121.44
1	fA	32	PHE	CA-C-O	5.41	127.72	121.34
1	fN	164	TYR	CA-CB-CG	-5.41	104.16	113.90
1	fX	207	PRO	O-C-N	-5.41	115.33	122.64
1	fZ	23	TRP	CB-CG-CD1	-5.41	118.78	126.90
1	1B	62	HIS	CA-CB-CG	-5.41	108.39	113.80
1	i	7	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	1	126	VAL	N-CA-C	5.41	117.81	111.05
1	G	25	LYS	O-C-N	-5.41	116.25	122.09
1	O	188	THR	CA-CB-OG1	5.41	117.72	109.60
1	Q	73	ILE	N-CA-C	5.41	116.04	110.36
1	W	177	ALA	O-C-N	-5.41	115.86	123.11
1	6	219	GLN	CB-CG-CD	5.41	121.80	112.60
1	7	38	PRO	CB-CA-C	5.41	120.49	111.56
1	gl	148	THR	CA-C-O	5.41	126.20	120.36
1	gn	144	MET	N-CA-CB	5.41	118.17	110.16
1	go	17	PRO	CA-C-N	5.41	127.80	120.44
1	go	17	PRO	C-N-CA	5.41	127.80	120.44
1	gq	144	MET	N-CA-CB	-5.41	102.22	110.33
1	1D	179	GLN	N-CA-C	5.41	116.86	111.07
1	gH	103	ASP	CA-C-N	5.41	129.20	120.55
1	gH	103	ASP	C-N-CA	5.41	129.20	120.55
1	gJ	195	ASN	N-CA-C	5.41	118.63	109.87
1	1F	82	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	gZ	171	THR	CA-C-N	5.41	127.53	120.28
1	gZ	171	THR	C-N-CA	5.41	127.53	120.28
1	h6	108	THR	CA-C-N	5.41	131.05	122.94
1	h6	108	THR	C-N-CA	5.41	131.05	122.94
1	h9	183	ASN	CA-C-O	5.41	126.28	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hi	22	ALA	CA-C-N	5.41	127.53	120.28
1	hi	22	ALA	C-N-CA	5.41	127.53	120.28
1	hi	67	GLN	OE1-CD-NE2	5.41	128.01	122.60
1	hm	167	ARG	CG-CD-NE	-5.41	100.10	112.00
1	hK	40	PHE	O-C-N	-5.41	115.62	122.27
1	hP	130	TYR	CB-CA-C	5.41	119.37	110.88
1	i8	42	ALA	CB-CA-C	-5.41	101.66	110.85
1	i9	89	GLY	CA-C-N	5.41	125.61	120.31
1	i9	89	GLY	C-N-CA	5.41	125.61	120.31
1	id	149	SER	O-C-N	-5.41	116.89	123.27
1	ij	58	THR	N-CA-C	5.41	117.93	111.71
1	im	133	TRP	O-C-N	5.41	127.85	122.12
1	1Q	152	ASP	N-CA-CB	-5.41	102.63	110.47
1	iB	87	HIS	CA-CB-CG	5.41	119.21	113.80
1	iG	54	THR	CA-CB-OG1	-5.41	101.49	109.60
1	iP	87	HIS	O-C-N	-5.41	116.85	122.96
1	iS	80	TRP	N-CA-C	5.41	117.60	111.11
1	iU	192	GLN	N-CA-CB	5.41	118.63	110.30
1	j1	82	ARG	NE-CZ-NH2	5.41	124.07	119.20
1	ji	205	LEU	CA-C-N	5.41	130.36	121.87
1	ji	205	LEU	C-N-CA	5.41	130.36	121.87
1	jj	60	GLY	CA-C-N	5.41	126.34	120.44
1	jj	60	GLY	C-N-CA	5.41	126.34	120.44
1	jn	136	LEU	CA-C-N	5.41	127.16	120.34
1	jn	136	LEU	C-N-CA	5.41	127.16	120.34
1	jo	23	TRP	N-CA-C	5.41	116.86	111.07
1	jt	152	ASP	CA-C-N	5.41	130.02	122.93
1	jt	152	ASP	C-N-CA	5.41	130.02	122.93
1	ju	49	PRO	N-CA-C	5.41	121.81	113.75
1	jC	162	ARG	NH1-CZ-NH2	-5.41	112.27	119.30
1	jM	177	ALA	CA-C-N	5.41	130.00	121.56
1	jM	177	ALA	C-N-CA	5.41	130.00	121.56
1	jQ	159	GLU	O-C-N	-5.41	117.25	121.47
1	jT	169	TYR	CA-C-N	5.41	127.53	120.28
1	jT	169	TYR	C-N-CA	5.41	127.53	120.28
1	k0	12	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	k4	3	VAL	O-C-N	-5.41	117.36	123.20
1	kb	82	ARG	O-C-N	5.41	127.64	122.07
1	kg	84	HIS	CB-CG-ND1	5.41	130.81	122.70
1	kj	201	ILE	N-CA-CB	5.41	116.88	110.55
1	kk	200	THR	O-C-N	-5.41	116.50	122.07
1	ku	161	PHE	CG-CD1-CE1	-5.41	111.50	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kA	202	LEU	CB-CA-C	-5.41	101.81	110.79
1	kH	220	GLY	CA-C-N	5.41	127.75	120.50
1	kH	220	GLY	C-N-CA	5.41	127.75	120.50
1	kK	56	LEU	N-CA-CB	5.41	118.07	110.12
1	kM	50	GLN	N-CA-C	5.41	117.17	111.28
1	kQ	56	LEU	N-CA-C	5.41	117.18	111.28
1	25	133	TRP	N-CA-CB	5.41	117.85	110.01
1	l4	200	THR	CB-CA-C	-5.41	101.81	110.79
1	l5	142	VAL	O-C-N	-5.41	116.61	121.91
1	l6	18	ARG	N-CA-C	5.41	117.17	111.28
1	26	216	THR	N-CA-C	5.41	116.86	111.07
1	lg	62	HIS	N-CA-C	5.41	118.89	111.54
1	lA	86	VAL	N-CA-C	5.41	120.59	109.34
1	2F	150	ILE	CA-CB-CG1	5.41	119.59	110.40
1	2H	56	LEU	O-C-N	-5.41	116.39	122.12
1	2Z	13	GLN	O-C-N	-5.41	117.00	123.27
1	33	24	VAL	CA-C-N	5.41	128.07	120.28
1	33	24	VAL	C-N-CA	5.41	128.07	120.28
1	3i	125	PRO	CA-C-N	5.41	128.16	120.53
1	3i	125	PRO	C-N-CA	5.41	128.16	120.53
1	3k	50	GLN	CA-C-O	5.41	126.24	120.24
1	3s	37	ILE	N-CA-CB	5.41	113.91	110.50
1	3y	67	GLN	O-C-N	5.41	128.32	122.15
1	3y	137	GLY	N-CA-C	5.41	119.69	112.77
1	3L	84	HIS	CA-C-N	5.41	126.60	119.84
1	3L	84	HIS	C-N-CA	5.41	126.60	119.84
1	3R	178	SER	CA-C-O	5.41	127.22	121.16
1	3V	192	GLN	CA-CB-CG	5.41	124.92	114.10
1	48	220	GLY	CA-C-O	5.41	129.98	120.57
1	49	85	PRO	CB-CA-C	-5.41	104.68	111.71
1	4i	102	SER	CA-C-N	5.41	127.53	120.28
1	4i	102	SER	C-N-CA	5.41	127.53	120.28
1	4A	116	GLY	N-CA-C	5.41	119.22	112.73
1	4F	33	SER	O-C-N	-5.41	115.10	121.32
1	51	144	MET	O-C-N	5.41	127.85	122.12
1	54	186	THR	CA-C-N	5.41	127.53	120.28
1	54	186	THR	C-N-CA	5.41	127.53	120.28
1	57	113	GLU	N-CA-C	5.41	117.18	111.28
1	5e	36	VAL	N-CA-C	5.41	116.14	110.62
1	5j	50	GLN	N-CA-CB	5.41	118.07	110.12
1	5G	59	VAL	N-CA-C	5.41	116.15	107.98
1	5G	219	GLN	O-C-N	-5.41	116.88	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5S	42	ALA	O-C-N	-5.41	116.25	122.09
1	5S	120	HIS	CA-CB-CG	5.41	119.21	113.80
1	5T	40	PHE	CA-C-O	-5.41	114.82	120.55
1	5U	114	GLN	N-CA-C	5.41	117.17	111.28
1	65	138	LEU	CA-C-N	5.41	127.53	120.28
1	65	138	LEU	C-N-CA	5.41	127.53	120.28
1	6l	22	ALA	O-C-N	5.41	127.64	122.07
1	6w	163	ASP	CA-C-O	5.41	126.28	120.55
1	6B	164	TYR	CA-C-O	5.41	126.26	120.20
1	6C	24	VAL	N-CA-C	5.41	116.14	110.62
1	6K	134	ILE	CB-CA-C	5.41	119.44	112.14
1	6L	69	LEU	N-CA-CB	-5.41	102.17	110.12
1	6R	5	ASN	N-CA-C	-5.41	100.85	109.07
1	7a	166	ASP	CB-CA-C	5.41	119.37	110.88
1	7a	225	GLY	CA-C-O	5.41	126.10	120.80
1	7b	18	ARG	CA-C-N	5.41	127.97	120.29
1	7b	18	ARG	C-N-CA	5.41	127.97	120.29
1	7e	144	MET	N-CA-CB	-5.41	102.17	110.44
1	7j	82	ARG	N-CA-C	5.41	117.60	111.11
1	7n	229	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	7F	91	ILE	CA-C-O	5.41	126.02	120.39
1	7O	108	THR	O-C-N	-5.41	116.15	122.96
1	7Q	185	MET	CA-C-O	-5.41	114.69	120.42
1	7R	78	ALA	N-CA-C	5.41	116.98	111.14
1	7W	166	ASP	CB-CA-C	5.41	119.46	110.81
1	89	116	GLY	N-CA-C	5.41	119.69	112.77
1	8c	128	GLU	CA-C-O	-5.41	114.69	120.42
1	8c	195	ASN	CA-C-N	5.41	125.49	119.32
1	8c	195	ASN	C-N-CA	5.41	125.49	119.32
1	8f	160	PRO	CB-CA-C	5.41	118.31	111.39
1	8o	77	ALA	CA-C-O	5.41	126.15	120.42
1	8z	203	LYS	CA-C-O	5.41	126.15	120.42
1	8K	132	ARG	CA-C-N	5.41	127.47	120.44
1	8K	132	ARG	C-N-CA	5.41	127.47	120.44
1	8M	113	GLU	CA-C-N	5.41	127.47	120.44
1	8M	113	GLU	C-N-CA	5.41	127.47	120.44
1	8R	144	MET	O-C-N	-5.41	115.18	122.43
1	96	131	LYS	O-C-N	-5.41	116.39	122.12
1	97	48	THR	N-CA-C	-5.41	102.28	110.50
1	9c	174	ALA	CA-C-O	5.41	126.28	120.55
1	9p	205	LEU	N-CA-CB	-5.41	102.17	110.12
1	9z	112	GLN	N-CA-C	5.41	117.93	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9A	80	TRP	CA-C-N	5.41	127.47	120.44
1	9A	80	TRP	C-N-CA	5.41	127.47	120.44
1	9C	219	GLN	O-C-N	-5.41	117.05	123.22
1	9G	87	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	9N	129	ILE	N-CA-C	-5.41	105.45	110.53
1	9R	165	VAL	O-C-N	-5.41	116.61	121.91
1	ae	172	LEU	N-CA-C	5.41	117.60	111.11
1	au	111	LEU	CA-C-N	5.41	127.53	120.28
1	au	111	LEU	C-N-CA	5.41	127.53	120.28
1	aF	221	VAL	CA-CB-CG1	5.41	119.60	110.40
1	aJ	129	ILE	CB-CA-C	-5.41	104.75	112.22
1	aL	40	PHE	N-CA-C	5.41	117.18	111.28
1	15	209	ALA	N-CA-C	5.41	118.07	110.23
1	17	203	LYS	CB-CG-CD	5.41	123.74	111.30
1	bi	169	TYR	CA-CB-CG	-5.41	104.17	113.90
1	bF	129	ILE	N-CA-C	5.41	115.61	110.42
1	bY	120	HIS	CA-CB-CG	5.41	119.21	113.80
1	bY	192	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	c0	223	GLY	O-C-N	-5.41	116.36	121.77
1	1c	126	VAL	CA-C-O	5.41	126.57	120.95
1	cb	120	HIS	CA-CB-CG	5.41	119.21	113.80
1	ch	23	TRP	CB-CG-CD2	5.41	134.37	126.80
1	co	188	THR	O-C-N	-5.41	115.62	121.95
1	1e	7	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	cs	76	GLU	N-CA-CB	5.41	117.85	110.01
1	cs	112	GLN	N-CA-C	5.41	117.25	111.36
1	cs	146	SER	N-CA-C	5.41	119.05	109.58
1	ct	102	SER	N-CA-CB	5.41	119.21	110.40
1	cy	124	ILE	CA-C-O	-5.41	116.09	119.12
1	cF	53	ASN	CA-C-O	5.41	126.28	120.55
1	cK	40	PHE	O-C-N	-5.41	116.39	122.12
1	cU	202	LEU	CA-C-N	5.41	127.47	120.44
1	cU	202	LEU	C-N-CA	5.41	127.47	120.44
1	cZ	62	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	df	127	GLY	CA-C-N	5.41	127.53	120.28
1	df	127	GLY	C-N-CA	5.41	127.53	120.28
1	dg	43	LEU	N-CA-C	5.41	118.09	111.82
1	dt	131	LYS	N-CA-C	5.41	117.18	111.28
1	dF	62	HIS	ND1-CG-CD2	5.41	111.51	106.10
1	dM	210	THR	N-CA-C	5.41	117.67	110.53
1	dZ	12	HIS	O-C-N	-5.41	117.00	123.06
1	e6	170	LYS	CA-C-O	5.41	126.28	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	18	ARG	CA-C-O	-5.41	114.82	120.55
1	eh	170	LYS	CA-C-N	5.41	127.47	120.44
1	eh	170	LYS	C-N-CA	5.41	127.47	120.44
1	ek	132	ARG	O-C-N	-5.41	116.39	122.12
1	eG	92	GLU	CA-C-N	5.41	126.60	119.84
1	eG	92	GLU	C-N-CA	5.41	126.60	119.84
1	eL	209	ALA	CA-C-N	5.41	130.81	120.97
1	eL	209	ALA	C-N-CA	5.41	130.81	120.97
1	eW	189	LEU	CA-C-N	5.41	127.53	120.28
1	eW	189	LEU	C-N-CA	5.41	127.53	120.28
1	eY	183	ASN	N-CA-C	5.41	116.98	111.14
1	f5	84	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	fa	218	CYS	CA-C-O	5.41	128.24	120.51
1	fc	48	THR	N-CA-CB	5.41	117.56	109.88
1	fd	135	ILE	CA-C-N	5.41	128.07	120.28
1	fd	135	ILE	C-N-CA	5.41	128.07	120.28
1	fk	62	HIS	ND1-CG-CD2	5.41	111.51	106.10
1	fm	12	HIS	CB-CG-CD2	-5.41	124.17	131.20
1	fN	9	GLN	CA-C-N	5.41	131.87	121.54
1	fN	9	GLN	C-N-CA	5.41	131.87	121.54
1	fP	122	PRO	N-CA-CB	5.41	108.55	102.60
1	g0	218	CYS	N-CA-C	5.41	119.09	111.52
1	g1	24	VAL	N-CA-CB	5.41	118.69	110.58
1	g2	132	ARG	CA-C-N	5.41	127.47	120.44
1	g2	132	ARG	C-N-CA	5.41	127.47	120.44
1	g5	16	SER	CA-C-N	5.41	125.49	119.32
1	g5	16	SER	C-N-CA	5.41	125.49	119.32
1	h	14	ALA	CA-C-N	5.41	128.33	120.98
1	h	14	ALA	C-N-CA	5.41	128.33	120.98
1	i	212	GLU	N-CA-C	5.41	117.60	111.11
1	1	160	PRO	N-CA-C	5.41	119.81	111.21
1	r	88	ALA	CA-C-N	5.41	130.36	121.87
1	r	88	ALA	C-N-CA	5.41	130.36	121.87
1	y	101	GLY	CA-C-N	5.41	129.75	120.72
1	y	101	GLY	C-N-CA	5.41	129.75	120.72
1	A	170	LYS	O-C-N	-5.41	116.39	122.12
1	B	100	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	W	11	VAL	CB-CA-C	5.41	118.69	110.90
1	7	229	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	9	18	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	g8	114	GLN	N-CA-CB	5.41	118.16	110.16
1	ge	121	ASN	CA-CB-CG	5.41	118.01	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gj	193	ASN	N-CA-C	-5.41	106.06	113.30
1	1D	84	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	h5	199	LYS	CA-C-N	5.41	127.53	120.28
1	h5	199	LYS	C-N-CA	5.41	127.53	120.28
1	hn	110	THR	CA-C-N	5.41	128.53	120.31
1	hn	110	THR	C-N-CA	5.41	128.53	120.31
1	hI	53	ASN	CA-C-N	5.41	127.53	120.28
1	hI	53	ASN	C-N-CA	5.41	127.53	120.28
1	hN	30	LYS	O-C-N	-5.41	115.82	122.20
1	hP	167	ARG	N-CA-C	5.41	117.17	111.28
1	iR	120	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	iV	146	SER	CB-CA-C	-5.41	101.59	109.38
1	kn	99	PRO	O-C-N	-5.41	117.30	123.03
1	kG	182	LYS	N-CA-C	5.41	117.17	111.28
1	l8	106	GLY	CA-C-O	5.41	125.12	119.06
1	le	185	MET	CA-C-N	5.41	127.53	120.28
1	le	185	MET	C-N-CA	5.41	127.53	120.28
1	lt	82	ARG	N-CA-CB	5.41	118.88	110.44
1	lL	130	TYR	CB-CG-CD2	-5.41	112.69	120.80
1	lQ	142	VAL	CA-C-N	5.41	127.47	120.44
1	lQ	142	VAL	C-N-CA	5.41	127.47	120.44
1	2x	113	GLU	CA-C-N	5.41	127.53	120.28
1	2x	113	GLU	C-N-CA	5.41	127.53	120.28
1	2Q	28	GLU	CB-CA-C	5.41	119.37	110.88
1	2R	117	TRP	CG-CD2-CE3	5.41	139.31	133.90
1	2S	137	GLY	CA-C-N	5.41	127.47	120.44
1	2S	137	GLY	C-N-CA	5.41	127.47	120.44
1	39	14	ALA	CA-C-N	5.41	131.70	121.97
1	39	14	ALA	C-N-CA	5.41	131.70	121.97
1	3M	58	THR	CA-C-N	5.41	127.46	120.70
1	3M	58	THR	C-N-CA	5.41	127.46	120.70
1	41	214	MET	O-C-N	-5.41	116.39	122.12
1	42	159	GLU	N-CA-C	5.41	117.36	109.84
1	5t	81	ASP	CA-C-N	5.41	127.97	120.29
1	5t	81	ASP	C-N-CA	5.41	127.97	120.29
1	5Y	36	VAL	CA-C-O	5.41	126.57	120.95
1	5Y	100	ARG	O-C-N	-5.41	116.35	122.68
1	6t	95	GLN	CG-CD-NE2	5.41	124.51	116.40
1	6y	23	TRP	CA-CB-CG	5.41	123.87	113.60
1	6z	62	HIS	CA-C-N	5.41	127.47	120.44
1	6z	62	HIS	C-N-CA	5.41	127.47	120.44
1	6I	85	PRO	N-CA-C	5.41	123.61	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6I	212	GLU	CA-C-N	5.41	127.47	120.44
1	6I	212	GLU	C-N-CA	5.41	127.47	120.44
1	6N	85	PRO	N-CA-CB	5.41	107.86	103.32
1	72	167	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	73	76	GLU	N-CA-C	5.41	118.09	111.82
1	76	50	GLN	CB-CG-CD	-5.41	103.41	112.60
1	7n	85	PRO	N-CA-CB	-5.41	98.40	103.27
1	7r	130	TYR	N-CA-C	5.41	116.86	111.07
1	7w	201	ILE	O-C-N	-5.41	116.28	121.90
1	7A	49	PRO	CA-C-N	5.41	127.84	120.54
1	7A	49	PRO	C-N-CA	5.41	127.84	120.54
1	7C	84	HIS	ND1-CE1-NE2	5.41	113.81	108.40
1	8e	165	VAL	CA-C-O	5.41	126.90	121.17
1	8B	100	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	8C	129	ILE	CA-C-N	5.41	127.53	120.28
1	8C	129	ILE	C-N-CA	5.41	127.53	120.28
1	8I	85	PRO	CA-C-N	5.41	131.70	121.97
1	8I	85	PRO	C-N-CA	5.41	131.70	121.97
1	9j	124	ILE	CA-C-N	5.41	126.60	119.84
1	9j	124	ILE	C-N-CA	5.41	126.60	119.84
1	9C	69	LEU	CA-C-O	-5.41	115.14	120.82
1	9F	90	PRO	CB-CA-C	5.41	118.51	111.64
1	9Q	78	ALA	CA-C-N	5.41	127.53	120.28
1	9Q	78	ALA	C-N-CA	5.41	127.53	120.28
1	9U	134	ILE	N-CA-C	5.41	115.61	110.42
1	a8	9	GLN	CB-CG-CD	5.41	121.79	112.60
1	a9	5	ASN	CA-CB-CG	-5.41	107.19	112.60
1	ar	89	GLY	CA-C-N	5.41	125.67	119.83
1	ar	89	GLY	C-N-CA	5.41	125.67	119.83
1	at	73	ILE	N-CA-C	5.41	115.61	110.42
1	ax	84	HIS	CB-CG-ND1	5.41	130.81	122.70
1	ay	62	HIS	CA-C-O	5.41	128.11	121.84
1	az	145	TYR	CA-C-O	-5.41	115.11	120.90
1	aF	13	GLN	OE1-CD-NE2	5.41	128.01	122.60
1	b0	108	THR	CA-CB-OG1	5.41	117.71	109.60
1	b3	65	ALA	CA-C-N	5.41	127.53	120.28
1	b3	65	ALA	C-N-CA	5.41	127.53	120.28
1	bB	198	CYS	O-C-N	-5.41	115.99	122.15
1	cc	208	ALA	N-CA-CB	5.41	118.59	110.53
1	cm	213	GLU	CA-C-N	5.41	127.47	120.44
1	cm	213	GLU	C-N-CA	5.41	127.47	120.44
1	d0	112	GLN	N-CA-C	5.41	117.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d2	95	GLN	N-CA-C	5.41	118.16	110.10
1	di	170	LYS	N-CA-CB	5.41	118.66	110.28
1	dC	168	PHE	CG-CD1-CE1	-5.41	111.51	120.70
1	dR	19	THR	N-CA-C	5.41	117.60	111.11
1	ei	21	ASN	N-CA-C	5.41	117.25	111.36
1	eq	212	GLU	CA-C-N	5.41	127.97	120.29
1	eq	212	GLU	C-N-CA	5.41	127.97	120.29
1	et	3	VAL	O-C-N	-5.41	117.36	122.98
1	ez	14	ALA	O-C-N	-5.41	116.16	122.81
1	eU	219	GLN	CA-C-O	5.41	126.32	120.32
1	fo	219	GLN	CG-CD-NE2	5.41	124.51	116.40
1	fF	197	ASP	N-CA-C	5.41	116.86	111.07
1	fZ	16	SER	CA-C-N	5.41	125.74	119.47
1	fZ	16	SER	C-N-CA	5.41	125.74	119.47
1	g6	61	GLY	N-CA-C	5.41	120.78	112.51
1	o	70	LYS	CB-CG-CD	5.41	123.74	111.30
1	g9	132	ARG	CG-CD-NE	-5.41	100.11	112.00
1	gh	120	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	gr	54	THR	CA-C-O	-5.41	115.14	120.82
1	gy	62	HIS	CB-CG-ND1	-5.41	114.59	122.70
1	gA	75	GLU	CB-CA-C	5.41	119.76	110.79
1	gC	77	ALA	N-CA-C	5.41	117.17	111.28
1	gK	152	ASP	N-CA-C	-5.41	106.53	113.23
1	1F	55	MET	CB-CA-C	5.41	119.76	110.79
1	gN	10	MET	O-C-N	-5.41	116.25	122.95
1	h3	70	LYS	CA-C-N	5.41	127.47	120.44
1	h3	70	LYS	C-N-CA	5.41	127.47	120.44
1	h4	30	LYS	CA-C-N	5.41	131.87	121.54
1	h4	30	LYS	C-N-CA	5.41	131.87	121.54
1	h9	230	VAL	N-CA-C	5.41	116.50	108.23
1	hf	86	VAL	O-C-N	-5.41	117.46	123.03
1	hn	104	ILE	CA-C-O	5.41	126.31	120.47
1	hq	19	THR	CA-C-O	5.41	126.50	120.82
1	hH	133	TRP	O-C-N	5.41	127.85	122.12
1	1M	114	GLN	N-CA-C	5.41	117.60	111.11
1	hX	171	THR	O-C-N	-5.41	116.39	122.12
1	i3	38	PRO	CA-C-O	5.41	127.28	119.34
1	1O	181	VAL	N-CA-CB	5.41	117.89	110.54
1	in	182	LYS	O-C-N	-5.41	116.50	122.07
1	io	20	LEU	O-C-N	-5.41	115.99	122.15
1	ir	141	ILE	N-CA-C	5.41	115.61	110.42
1	iy	159	GLU	N-CA-C	-5.41	102.96	109.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	160	PRO	N-CA-C	5.41	119.81	111.21
1	iL	79	GLU	CA-C-N	5.41	129.87	120.68
1	iL	79	GLU	C-N-CA	5.41	129.87	120.68
1	1U	88	ALA	O-C-N	-5.41	115.82	122.20
1	ji	39	MET	O-C-N	-5.41	116.50	122.07
1	jI	33	SER	CA-C-N	5.41	125.23	119.28
1	jI	33	SER	C-N-CA	5.41	125.23	119.28
1	jM	178	SER	CA-C-O	-5.41	115.55	120.95
1	jR	163	ASP	CA-C-N	5.41	127.97	120.29
1	jR	163	ASP	C-N-CA	5.41	127.97	120.29
1	k5	194	ALA	O-C-N	-5.41	116.16	122.81
1	k6	87	HIS	N-CA-C	5.41	119.03	111.90
1	ko	92	GLU	CB-CA-C	5.41	118.11	109.62
1	kr	25	LYS	N-CA-C	5.41	116.85	111.07
1	22	99	PRO	N-CA-C	5.41	119.35	111.03
1	kC	24	VAL	O-C-N	-5.41	116.59	121.89
1	kQ	74	ASN	N-CA-C	5.41	117.17	111.28
1	kS	19	THR	N-CA-C	5.41	117.93	111.71
1	l1	130	TYR	CA-C-O	5.41	126.21	120.10
1	l9	117	TRP	N-CA-C	5.41	117.87	111.33
1	ln	6	LEU	CA-C-N	5.41	130.63	122.68
1	ln	6	LEU	C-N-CA	5.41	130.63	122.68
1	2a	80	TRP	N-CA-C	5.41	117.17	111.28
1	2h	136	LEU	CA-C-N	5.41	125.94	119.94
1	2h	136	LEU	C-N-CA	5.41	125.94	119.94
1	2x	72	THR	N-CA-CB	5.41	118.16	110.16
1	2A	224	PRO	CA-C-O	-5.41	117.22	121.38
1	2C	61	GLY	CA-C-N	5.41	130.08	122.46
1	2C	61	GLY	C-N-CA	5.41	130.08	122.46
1	2L	211	LEU	N-CA-C	5.41	117.17	111.28
1	32	162	ARG	CA-C-O	5.41	124.77	118.77
1	38	82	ARG	N-CA-CB	5.41	117.91	110.07
1	3b	137	GLY	O-C-N	-5.41	116.99	122.18
1	3h	18	ARG	CB-CA-C	-5.41	102.39	110.88
1	3o	21	ASN	O-C-N	-5.41	116.50	122.07
1	3N	167	ARG	NH1-CZ-NH2	-5.41	112.27	119.30
1	3Q	149	SER	CA-C-N	5.41	127.86	120.46
1	3Q	149	SER	C-N-CA	5.41	127.86	120.46
1	3U	88	ALA	N-CA-C	5.41	118.48	110.48
1	44	128	GLU	CA-C-N	5.41	127.87	120.46
1	44	128	GLU	C-N-CA	5.41	127.87	120.46
1	4a	29	GLU	N-CA-C	5.41	116.98	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4e	84	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	4i	90	PRO	N-CA-C	5.41	119.57	111.14
1	4j	82	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	4k	146	SER	CA-C-O	-5.41	113.66	118.63
1	4l	192	GLN	CB-CA-C	-5.41	101.49	110.68
1	4o	205	LEU	N-CA-C	-5.41	106.69	113.72
1	4I	7	GLN	O-C-N	-5.41	116.57	122.84
1	4N	42	ALA	CA-C-O	5.41	126.50	120.82
1	5c	217	ALA	CA-C-N	5.41	131.86	121.54
1	5c	217	ALA	C-N-CA	5.41	131.86	121.54
1	5d	223	GLY	CA-C-N	5.41	126.60	119.84
1	5d	223	GLY	C-N-CA	5.41	126.60	119.84
1	5p	203	LYS	CA-C-O	-5.41	113.99	120.10
1	5v	206	GLY	O-C-N	-5.41	116.36	121.77
1	5J	171	THR	N-CA-CB	5.41	119.49	110.41
1	5K	139	ASN	O-C-N	-5.41	115.19	122.43
1	5L	179	GLN	N-CA-C	5.41	117.87	111.33
1	5M	114	GLN	CB-CA-C	-5.41	101.82	110.79
1	5M	229	ARG	N-CA-C	5.41	117.86	110.24
1	5Q	183	ASN	N-CA-CB	5.41	117.91	110.07
1	5V	184	TRP	N-CA-CB	5.41	118.07	110.12
1	61	165	VAL	O-C-N	5.41	127.21	121.91
1	67	123	PRO	CA-C-N	5.41	126.28	122.60
1	67	123	PRO	C-N-CA	5.41	126.28	122.60
1	69	65	ALA	CA-C-O	5.41	126.50	120.82
1	6h	133	TRP	CE3-CZ3-CH2	-5.41	114.07	121.10
1	6k	192	GLN	N-CA-C	5.41	122.31	110.80
1	6r	120	HIS	CA-C-O	-5.41	115.67	121.56
1	6v	206	GLY	N-CA-C	5.41	123.37	112.34
1	6E	183	ASN	CA-C-N	5.41	127.52	120.28
1	6E	183	ASN	C-N-CA	5.41	127.52	120.28
1	6N	155	GLN	CA-C-N	5.41	130.36	121.87
1	6N	155	GLN	C-N-CA	5.41	130.36	121.87
1	6P	141	ILE	CA-C-N	5.41	127.87	120.46
1	6P	141	ILE	C-N-CA	5.41	127.87	120.46
1	6X	116	GLY	N-CA-C	5.41	120.32	113.24
1	6Y	62	HIS	ND1-CG-CD2	5.41	111.51	106.10
1	72	97	ARG	NE-CZ-NH1	5.41	126.91	121.50
1	7g	222	GLY	CA-C-N	5.41	130.36	121.87
1	7g	222	GLY	C-N-CA	5.41	130.36	121.87
1	7i	82	ARG	N-CA-CB	5.41	118.62	110.30
1	7m	219	GLN	CA-C-O	-5.41	114.19	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	144	MET	O-C-N	-5.41	115.09	122.33
1	7z	5	ASN	CA-C-N	5.41	130.03	122.36
1	7z	5	ASN	C-N-CA	5.41	130.03	122.36
1	7P	126	VAL	N-CA-C	5.41	116.13	110.62
1	84	98	GLU	O-C-N	-5.41	115.73	121.30
1	84	171	THR	CA-CB-OG1	5.41	117.71	109.60
1	8D	186	THR	OG1-CB-CG2	-5.41	98.49	109.30
1	8D	206	GLY	O-C-N	5.41	127.17	121.77
1	8G	40	PHE	CA-C-O	5.41	126.28	120.55
1	8I	84	HIS	CG-CD2-NE2	5.41	112.61	107.20
1	8Z	138	LEU	N-CA-C	5.41	117.17	111.28
1	90	67	GLN	N-CA-C	5.41	117.60	111.11
1	9e	19	THR	O-C-N	-5.41	115.62	122.27
1	9j	166	ASP	CA-C-N	5.41	127.84	120.54
1	9j	166	ASP	C-N-CA	5.41	127.84	120.54
1	9m	66	MET	N-CA-C	5.41	117.17	111.28
1	9t	12	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
1	9D	194	ALA	O-C-N	-5.41	116.30	122.68
1	9N	164	TYR	CA-CB-CG	-5.41	104.17	113.90
1	9Y	100	ARG	CG-CD-NE	-5.41	100.11	112.00
1	ak	54	THR	OG1-CB-CG2	-5.41	98.49	109.30
1	am	107	THR	N-CA-C	5.41	117.17	111.28
1	ax	107	THR	N-CA-C	-5.41	106.36	113.12
1	13	2	ILE	CB-CA-C	-5.41	104.09	111.33
1	aQ	165	VAL	CA-C-N	5.41	127.47	120.44
1	aQ	165	VAL	C-N-CA	5.41	127.47	120.44
1	aW	132	ARG	N-CA-C	5.41	116.85	111.07
1	aW	211	LEU	O-C-N	-5.41	116.39	122.12
1	b6	67	GLN	O-C-N	5.41	128.31	122.15
1	bc	183	ASN	CB-CG-ND2	-5.41	108.29	116.40
1	bh	142	VAL	N-CA-C	5.41	115.61	110.42
1	bk	91	ILE	N-CA-C	5.41	116.67	109.37
1	bA	128	GLU	O-C-N	5.41	128.54	122.22
1	c3	138	LEU	N-CA-C	5.41	116.85	111.07
1	cd	33	SER	CA-C-N	5.41	125.08	119.56
1	cd	33	SER	C-N-CA	5.41	125.08	119.56
1	ci	92	GLU	CA-C-O	-5.41	114.95	119.76
1	cj	230	VAL	N-CA-C	5.41	116.03	108.89
1	1f	168	PHE	CA-C-N	5.41	127.79	120.44
1	1f	168	PHE	C-N-CA	5.41	127.79	120.44
1	cW	113	GLU	CA-C-N	5.41	127.47	120.44
1	cW	113	GLU	C-N-CA	5.41	127.47	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	83	LEU	N-CA-CB	-5.41	102.58	110.47
1	1i	161	PHE	CB-CA-C	5.41	121.18	110.42
1	d4	123	PRO	CA-C-O	-5.41	115.18	121.34
1	db	222	GLY	N-CA-C	5.41	118.89	111.54
1	de	122	PRO	N-CD-CG	-5.41	97.31	103.80
1	dn	192	GLN	OE1-CD-NE2	-5.41	117.19	122.60
1	dq	28	GLU	CA-CB-CG	-5.41	103.29	114.10
1	dr	158	LYS	CA-C-O	5.41	128.24	120.51
1	dt	99	PRO	O-C-N	-5.41	117.09	122.98
1	dz	114	GLN	CA-C-N	5.41	127.86	120.46
1	dz	114	GLN	C-N-CA	5.41	127.86	120.46
1	dD	177	ALA	N-CA-CB	5.41	119.94	111.56
1	dW	131	LYS	N-CA-C	5.41	117.17	111.28
1	1p	12	HIS	CA-CB-CG	-5.41	108.39	113.80
1	ej	168	PHE	CB-CA-C	5.41	119.37	110.88
1	em	170	LYS	N-CA-C	5.41	116.86	111.07
1	ew	85	PRO	N-CA-C	-5.41	101.23	112.36
1	ey	222	GLY	CA-C-O	5.41	126.79	119.28
1	1s	197	ASP	CA-C-O	5.41	126.50	120.82
1	eM	5	ASN	CB-CG-OD1	5.41	131.61	120.80
1	eT	165	VAL	N-CA-C	5.41	116.14	110.62
1	eX	131	LYS	N-CA-CB	-5.41	101.90	110.28
1	f3	209	ALA	O-C-N	-5.41	117.06	123.11
1	f8	190	LEU	CA-C-O	-5.41	114.69	120.42
1	fb	22	ALA	N-CA-CB	-5.41	100.93	110.39
1	fd	92	GLU	CA-C-N	5.41	126.34	120.83
1	fd	92	GLU	C-N-CA	5.41	126.34	120.83
1	fj	47	ALA	N-CA-C	5.41	118.07	110.23
1	fr	73	ILE	CA-C-N	5.41	127.52	120.28
1	fr	73	ILE	C-N-CA	5.41	127.52	120.28
1	1x	154	ARG	N-CA-CB	-5.41	102.06	110.55
1	fv	107	THR	N-CA-C	5.41	116.85	111.07
1	fH	175	GLU	N-CA-C	5.41	116.85	111.07
1	1z	71	GLU	CA-C-N	5.41	127.52	120.28
1	1z	71	GLU	C-N-CA	5.41	127.52	120.28
1	g1	112	GLN	CB-CG-CD	-5.41	103.41	112.60
1	1B	53	ASN	CA-CB-CG	-5.41	107.19	112.60
1	c	80	TRP	O-C-N	-5.41	116.50	122.07
1	g	50	GLN	N-CA-C	5.41	117.17	111.28
1	p	130	TYR	N-CA-C	-5.41	105.39	111.28
1	t	114	GLN	N-CA-C	5.41	116.85	111.07
1	t	161	PHE	O-C-N	-5.41	116.39	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	124	ILE	CB-CA-C	-5.41	104.96	111.18
1	C	97	ARG	NE-CZ-NH2	-5.41	114.33	119.20
1	3	153	ILE	N-CA-CB	5.41	116.82	110.82
1	H	154	ARG	NE-CZ-NH2	-5.41	114.34	119.20
1	W	130	TYR	CD1-CG-CD2	-5.41	109.99	118.10
1	7	155	GLN	CA-C-O	5.41	126.48	120.43
1	8	20	LEU	CA-C-N	5.41	127.47	120.44
1	8	20	LEU	C-N-CA	5.41	127.47	120.44
1	gd	119	THR	CA-C-N	5.40	132.23	122.02
1	gd	119	THR	C-N-CA	5.40	132.23	122.02
1	gD	100	ARG	CA-C-N	5.40	125.98	119.98
1	gD	100	ARG	C-N-CA	5.40	125.98	119.98
1	hd	148	THR	CA-CB-OG1	5.40	117.71	109.60
1	hB	75	GLU	CA-C-N	5.40	127.47	120.44
1	hB	75	GLU	C-N-CA	5.40	127.47	120.44
1	hF	227	LYS	CA-C-O	-5.40	114.19	120.62
1	hH	190	LEU	N-CA-C	5.40	116.85	111.07
1	1L	209	ALA	O-C-N	-5.40	116.30	122.89
1	hR	138	LEU	O-C-N	-5.40	116.39	122.12
1	hW	51	ASP	N-CA-C	5.40	117.17	111.28
1	1N	97	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	i6	103	ASP	CA-C-O	5.40	126.28	120.55
1	ii	174	ALA	CA-C-O	5.40	125.82	119.28
1	ix	98	GLU	O-C-N	5.40	130.45	121.59
1	iC	157	PRO	CB-CA-C	5.40	120.01	111.31
1	iE	43	LEU	N-CA-C	5.40	117.87	111.33
1	iO	18	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	ja	83	LEU	N-CA-CB	-5.40	101.90	110.28
1	jl	50	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	1V	229	ARG	O-C-N	-5.40	115.40	122.59
1	jo	128	GLU	N-CA-C	5.40	117.17	111.28
1	k8	185	MET	CG-SD-CE	-5.40	89.01	100.90
1	kb	182	LYS	CA-C-N	5.40	127.47	120.44
1	kb	182	LYS	C-N-CA	5.40	127.47	120.44
1	kb	204	ALA	CA-C-O	5.40	126.27	120.70
1	kf	176	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	kk	177	ALA	O-C-N	-5.40	115.40	122.59
1	kC	170	LYS	CA-C-N	5.40	127.52	120.28
1	kC	170	LYS	C-N-CA	5.40	127.52	120.28
1	kN	148	THR	CA-C-O	5.40	126.81	120.43
1	l8	185	MET	O-C-N	5.40	127.85	122.12
1	lE	153	ILE	CA-C-O	5.40	126.48	120.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	99	PRO	CA-C-N	5.40	129.43	120.94
1	2e	99	PRO	C-N-CA	5.40	129.43	120.94
1	2j	117	TRP	CA-C-O	5.40	126.49	120.82
1	2A	118	MET	CA-C-O	-5.40	114.82	120.55
1	2B	15	ILE	O-C-N	-5.40	116.78	122.67
1	2J	145	TYR	CA-C-O	-5.40	112.95	119.27
1	2J	147	PRO	N-CA-CB	-5.40	98.33	103.41
1	3A	84	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	3B	149	SER	O-C-N	-5.40	116.79	123.33
1	3L	168	PHE	CB-CA-C	5.40	119.46	110.81
1	3X	26	VAL	CA-CB-CG1	5.40	119.59	110.40
1	50	24	VAL	CA-C-N	5.40	127.47	120.44
1	50	24	VAL	C-N-CA	5.40	127.47	120.44
1	59	2	ILE	O-C-N	-5.40	117.51	123.18
1	5o	118	MET	CG-SD-CE	5.40	112.79	100.90
1	6d	135	ILE	CA-C-N	5.40	127.52	120.28
1	6d	135	ILE	C-N-CA	5.40	127.52	120.28
1	7m	37	ILE	CB-CA-C	-5.40	108.57	113.70
1	7H	151	LEU	O-C-N	-5.40	115.36	122.39
1	7P	204	ALA	CA-C-N	5.40	127.52	120.28
1	7P	204	ALA	C-N-CA	5.40	127.52	120.28
1	7V	170	LYS	CA-C-N	5.40	127.52	120.28
1	7V	170	LYS	C-N-CA	5.40	127.52	120.28
1	88	218	CYS	CA-C-O	-5.40	115.33	121.65
1	8j	155	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	8l	62	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	8l	219	GLN	CA-C-O	5.40	126.65	120.54
1	8r	173	ARG	NE-CZ-NH2	5.40	124.06	119.20
1	8T	33	SER	O-C-N	-5.40	115.38	121.43
1	8Y	112	GLN	N-CA-C	5.40	117.87	111.33
1	94	85	PRO	CB-CA-C	5.40	116.32	111.40
1	9c	58	THR	CA-CB-OG1	-5.40	101.49	109.60
1	9l	62	HIS	CA-CB-CG	5.40	119.20	113.80
1	9n	230	VAL	N-CA-C	5.40	120.58	109.34
1	9u	182	LYS	O-C-N	-5.40	116.39	122.12
1	9u	199	LYS	CA-C-O	-5.40	114.82	120.55
1	9H	132	ARG	CA-C-N	5.40	127.47	120.44
1	9H	132	ARG	C-N-CA	5.40	127.47	120.44
1	9U	84	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	11	5	ASN	CA-CB-CG	-5.40	107.20	112.60
1	ar	90	PRO	CB-CA-C	5.40	118.45	111.64
1	at	183	ASN	O-C-N	-5.40	116.39	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aF	191	VAL	CA-C-O	5.40	125.26	119.91
1	aM	220	GLY	CA-C-O	5.40	126.20	119.88
1	aN	122	PRO	CA-C-N	5.40	126.60	119.84
1	aN	122	PRO	C-N-CA	5.40	126.60	119.84
1	aT	86	VAL	O-C-N	-5.40	115.81	122.57
1	bc	87	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	bq	92	GLU	O-C-N	-5.40	115.11	121.32
1	bv	133	TRP	N-CA-C	5.40	117.17	111.28
1	cA	154	ARG	CA-C-O	-5.40	113.63	120.28
1	cG	213	GLU	O-C-N	-5.40	115.00	122.46
1	cY	17	PRO	CA-C-N	5.40	127.52	120.28
1	cY	17	PRO	C-N-CA	5.40	127.52	120.28
1	d3	203	LYS	CA-C-N	5.40	128.06	120.28
1	d3	203	LYS	C-N-CA	5.40	128.06	120.28
1	d7	152	ASP	O-C-N	-5.40	115.94	122.48
1	dd	44	SER	O-C-N	-5.40	115.45	122.37
1	de	162	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	ds	92	GLU	N-CA-CB	5.40	120.70	110.65
1	dA	134	ILE	N-CA-C	5.40	115.61	110.42
1	dV	192	GLN	CA-C-O	-5.40	114.82	120.55
1	e1	179	GLN	N-CA-C	5.40	117.87	111.33
1	1p	136	LEU	CA-C-O	5.40	126.21	120.10
1	eo	223	GLY	CA-C-N	5.40	124.92	119.19
1	eo	223	GLY	C-N-CA	5.40	124.92	119.19
1	ep	100	ARG	N-CA-C	5.40	118.74	110.36
1	et	139	ASN	CA-C-O	5.40	126.49	120.82
1	et	174	ALA	CA-C-N	5.40	129.02	121.24
1	et	174	ALA	C-N-CA	5.40	129.02	121.24
1	eu	132	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	1s	212	GLU	CA-C-O	5.40	126.49	120.82
1	eU	195	ASN	N-CA-C	5.40	116.50	109.64
1	eV	218	CYS	N-CA-C	5.40	118.70	111.24
1	f2	165	VAL	CA-C-N	5.40	127.52	120.28
1	f2	165	VAL	C-N-CA	5.40	127.52	120.28
1	ff	145	TYR	N-CA-C	5.40	119.18	112.59
1	fp	113	GLU	CA-C-N	5.40	127.52	120.28
1	fp	113	GLU	C-N-CA	5.40	127.52	120.28
1	1y	157	PRO	CB-CA-C	-5.40	104.44	112.55
1	fT	218	CYS	CA-C-N	5.40	130.61	122.99
1	fT	218	CYS	C-N-CA	5.40	130.61	122.99
1	g2	108	THR	N-CA-C	5.40	119.85	112.88
1	V	141	ILE	CA-CB-CG1	5.40	119.59	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ga	37	ILE	CA-C-N	5.40	124.92	119.19
1	ga	37	ILE	C-N-CA	5.40	124.92	119.19
1	gc	143	ARG	N-CA-C	5.40	117.17	111.28
1	gg	29	GLU	CA-C-O	-5.40	114.77	120.55
1	gl	177	ALA	CA-C-O	-5.40	114.12	120.60
1	go	116	GLY	CA-C-N	5.40	129.82	120.58
1	go	116	GLY	C-N-CA	5.40	129.82	120.58
1	gp	183	ASN	CA-C-N	5.40	127.96	120.29
1	gp	183	ASN	C-N-CA	5.40	127.96	120.29
1	gr	39	MET	CA-C-O	-5.40	114.82	120.55
1	1F	66	MET	CA-C-N	5.40	127.46	120.44
1	1F	66	MET	C-N-CA	5.40	127.46	120.44
1	gN	161	PHE	CA-C-O	5.40	126.28	120.55
1	gX	57	ASN	CA-C-N	5.40	127.78	120.38
1	gX	57	ASN	C-N-CA	5.40	127.78	120.38
1	gZ	75	GLU	CA-C-O	5.40	126.28	120.55
1	hr	16	SER	CA-C-N	5.40	125.48	119.32
1	hr	16	SER	C-N-CA	5.40	125.48	119.32
1	hu	133	TRP	CA-C-O	-5.40	114.82	120.55
1	hy	79	GLU	CA-C-N	5.40	127.96	120.29
1	hy	79	GLU	C-N-CA	5.40	127.96	120.29
1	hU	59	VAL	CA-C-O	-5.40	115.33	120.95
1	hZ	146	SER	O-C-N	-5.40	116.53	121.34
1	ia	35	GLU	O-C-N	-5.40	115.00	122.46
1	ik	70	LYS	N-CA-C	5.40	117.17	111.28
1	iq	117	TRP	CB-CG-CD1	-5.40	118.80	126.90
1	it	119	THR	O-C-N	-5.40	115.82	122.25
1	1R	41	SER	CA-C-O	5.40	126.28	120.55
1	iK	97	ARG	N-CA-CB	5.40	117.95	110.17
1	iS	154	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	iZ	51	ASP	CA-C-N	5.40	127.46	120.44
1	iZ	51	ASP	C-N-CA	5.40	127.46	120.44
1	j0	120	HIS	O-C-N	-5.40	116.30	122.68
1	j3	158	LYS	O-C-N	-5.40	116.74	122.30
1	j6	139	ASN	N-CA-CB	-5.40	102.18	110.12
1	j8	72	THR	N-CA-C	5.40	117.92	111.71
1	j8	160	PRO	N-CA-C	5.40	119.57	111.14
1	jv	196	PRO	CA-C-N	5.40	127.52	120.28
1	jv	196	PRO	C-N-CA	5.40	127.52	120.28
1	jM	89	GLY	CA-C-N	5.40	126.59	119.84
1	jM	89	GLY	C-N-CA	5.40	126.59	119.84
1	jQ	155	GLN	CA-C-O	5.40	127.21	121.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jT	80	TRP	O-C-N	-5.40	116.50	122.07
1	kb	142	VAL	O-C-N	-5.40	116.62	121.91
1	kk	80	TRP	CE2-CD2-CE3	5.40	124.20	118.80
1	ks	112	GLN	CA-C-N	5.40	127.46	120.44
1	ks	112	GLN	C-N-CA	5.40	127.46	120.44
1	kL	76	GLU	N-CA-CB	-5.40	102.18	110.12
1	kO	138	LEU	CA-C-N	5.40	127.52	120.28
1	kO	138	LEU	C-N-CA	5.40	127.52	120.28
1	l5	55	MET	CA-C-N	5.40	127.78	120.38
1	l5	55	MET	C-N-CA	5.40	127.78	120.38
1	26	30	LYS	CG-CD-CE	5.40	123.73	111.30
1	la	76	GLU	N-CA-C	5.40	117.17	111.28
1	lb	190	LEU	N-CA-CB	5.40	118.03	109.82
1	lo	213	GLU	CA-C-N	5.40	127.52	120.28
1	lo	213	GLU	C-N-CA	5.40	127.52	120.28
1	lH	90	PRO	CB-CA-C	-5.40	104.47	111.39
1	2a	106	GLY	CA-C-O	5.40	124.55	119.20
1	lN	40	PHE	CA-C-O	5.40	126.47	120.63
1	lO	143	ARG	N-CA-C	5.40	116.97	111.14
1	lO	190	LEU	N-CA-C	5.40	117.59	111.11
1	2f	119	THR	O-C-N	-5.40	115.34	122.42
1	2i	70	LYS	N-CA-CB	-5.40	102.18	110.01
1	2n	67	GLN	CB-CG-CD	5.40	121.78	112.60
1	2p	12	HIS	CA-CB-CG	5.40	119.20	113.80
1	2r	91	ILE	N-CA-CB	5.40	119.50	110.86
1	3d	12	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	3g	146	SER	CA-C-N	5.40	126.59	119.84
1	3g	146	SER	C-N-CA	5.40	126.59	119.84
1	3r	23	TRP	CD2-CE2-CZ2	-5.40	117.00	122.40
1	3y	83	LEU	CB-CA-C	-5.40	100.25	109.65
1	3B	165	VAL	CB-CA-C	-5.40	104.94	112.02
1	3I	100	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	3P	80	TRP	CA-C-N	5.40	127.96	120.29
1	3P	80	TRP	C-N-CA	5.40	127.96	120.29
1	3U	147	PRO	CA-CB-CG	5.40	114.77	104.50
1	40	186	THR	CA-C-O	5.40	126.15	120.42
1	42	57	ASN	OD1-CG-ND2	5.40	128.00	122.60
1	4i	143	ARG	CA-C-N	5.40	127.83	120.54
1	4i	143	ARG	C-N-CA	5.40	127.83	120.54
1	4N	111	LEU	N-CA-C	5.40	117.87	111.33
1	4R	36	VAL	N-CA-C	5.40	116.13	110.62
1	52	82	ARG	CA-C-N	5.40	127.83	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	82	ARG	C-N-CA	5.40	127.83	120.54
1	5a	115	ILE	CB-CA-C	-5.40	104.85	112.14
1	5p	121	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	5q	113	GLU	CB-CG-CD	-5.40	103.42	112.60
1	5q	180	GLU	CA-C-N	5.40	127.37	120.56
1	5q	180	GLU	C-N-CA	5.40	127.37	120.56
1	5r	185	MET	N-CA-C	5.40	117.17	111.28
1	5u	15	ILE	N-CA-C	5.40	120.58	109.34
1	5u	100	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	5z	147	PRO	N-CA-CB	-5.40	97.58	103.25
1	5A	226	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	5B	216	THR	CA-C-N	5.40	128.44	120.82
1	5B	216	THR	C-N-CA	5.40	128.44	120.82
1	5E	90	PRO	N-CA-CB	5.40	108.92	103.25
1	5P	96	MET	CA-C-O	5.40	127.28	121.44
1	5U	184	TRP	CE3-CZ3-CH2	-5.40	114.08	121.10
1	5X	182	LYS	CB-CA-C	-5.40	100.30	110.67
1	63	3	VAL	O-C-N	-5.40	117.42	123.26
1	6f	168	PHE	CA-CB-CG	5.40	119.20	113.80
1	6i	20	LEU	N-CA-CB	-5.40	102.18	110.01
1	6r	198	CYS	N-CA-C	5.40	117.17	111.28
1	6u	227	LYS	N-CA-C	5.40	118.09	111.82
1	6z	163	ASP	O-C-N	-5.40	115.62	122.27
1	6E	195	ASN	O-C-N	-5.40	116.03	121.27
1	6H	112	GLN	N-CA-C	5.40	117.17	111.28
1	6M	146	SER	O-C-N	-5.40	115.73	121.30
1	6O	38	PRO	CA-C-N	5.40	127.46	120.44
1	6O	38	PRO	C-N-CA	5.40	127.46	120.44
1	6R	134	ILE	CB-CA-C	-5.40	104.77	112.22
1	6T	12	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	6U	9	GLN	O-C-N	-5.40	116.85	122.96
1	7m	180	GLU	CB-CA-C	-5.40	100.30	110.67
1	7m	182	LYS	O-C-N	5.40	127.85	122.12
1	7s	168	PHE	CA-C-O	-5.40	115.15	120.82
1	7x	130	TYR	O-C-N	-5.40	115.99	122.15
1	7x	202	LEU	CA-C-O	5.40	126.49	120.82
1	7D	19	THR	N-CA-CB	5.40	117.84	110.01
1	7D	155	GLN	CA-C-N	5.40	130.35	121.87
1	7D	155	GLN	C-N-CA	5.40	130.35	121.87
1	7X	139	ASN	N-CA-CB	5.40	117.84	110.01
1	8c	126	VAL	N-CA-C	5.40	115.61	110.53
1	8d	167	ARG	NE-CZ-NH2	-5.40	114.34	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8l	220	GLY	CA-C-N	5.40	131.69	121.97
1	8l	220	GLY	C-N-CA	5.40	131.69	121.97
1	8E	134	ILE	O-C-N	-5.40	116.63	121.87
1	8U	88	ALA	CA-C-N	5.40	130.35	121.87
1	8U	88	ALA	C-N-CA	5.40	130.35	121.87
1	8W	22	ALA	CA-C-N	5.40	127.52	120.28
1	8W	22	ALA	C-N-CA	5.40	127.52	120.28
1	8Y	225	GLY	CA-C-O	5.40	128.64	121.83
1	9b	40	PHE	N-CA-CB	-5.40	102.16	110.16
1	9b	218	CYS	CA-C-N	5.40	130.61	122.99
1	9b	218	CYS	C-N-CA	5.40	130.61	122.99
1	9d	67	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	9e	176	GLN	CB-CG-CD	5.40	121.78	112.60
1	9j	96	MET	N-CA-C	5.40	117.25	111.36
1	9j	168	PHE	CA-CB-CG	5.40	119.20	113.80
1	9q	117	TRP	CB-CG-CD2	5.40	134.36	126.80
1	9x	222	GLY	O-C-N	-5.40	115.68	122.70
1	9z	176	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	9J	74	ASN	N-CA-C	5.40	117.59	111.11
1	9L	179	GLN	N-CA-C	5.40	116.85	111.07
1	9N	72	THR	CA-C-N	5.40	127.86	120.46
1	9N	72	THR	C-N-CA	5.40	127.86	120.46
1	9O	203	LYS	CG-CD-CE	5.40	123.73	111.30
1	9T	8	GLY	CA-C-N	5.40	129.81	122.19
1	9T	8	GLY	C-N-CA	5.40	129.81	122.19
1	Z	103	ASP	CA-C-N	5.40	127.57	120.60
1	Z	103	ASP	C-N-CA	5.40	127.57	120.60
1	a7	41	SER	O-C-N	-5.40	116.50	122.07
1	ab	2	ILE	N-CA-C	5.40	117.00	109.55
1	ad	142	VAL	O-C-N	-5.40	116.41	121.87
1	al	45	GLU	N-CA-C	5.40	117.53	109.59
1	as	167	ARG	N-CA-C	-5.40	105.42	112.23
1	av	119	THR	O-C-N	-5.40	115.82	122.25
1	aA	156	GLY	CA-C-N	5.40	124.92	119.19
1	aA	156	GLY	C-N-CA	5.40	124.92	119.19
1	aH	92	GLU	CA-C-O	5.40	124.83	119.75
1	aK	45	GLU	CA-C-N	5.40	132.00	121.41
1	aK	45	GLU	C-N-CA	5.40	132.00	121.41
1	aO	95	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	aS	53	ASN	CA-CB-CG	-5.40	107.20	112.60
1	aS	100	ARG	O-C-N	-5.40	115.50	122.20
1	bd	72	THR	N-CA-CB	5.40	118.06	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bg	25	LYS	N-CA-C	5.40	117.87	111.33
1	bl	200	THR	O-C-N	-5.40	116.39	122.12
1	bo	74	ASN	CA-C-O	-5.40	115.12	120.90
1	bo	226	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	bE	24	VAL	CA-CB-CG1	5.40	119.58	110.40
1	bF	91	ILE	N-CA-C	-5.40	104.34	111.09
1	bI	161	PHE	CB-CA-C	5.40	119.76	110.79
1	bS	208	ALA	CA-C-O	5.40	126.21	119.78
1	c2	214	MET	N-CA-C	5.40	117.59	111.11
1	cr	136	LEU	O-C-N	-5.40	116.39	122.12
1	cv	200	THR	N-CA-C	5.40	117.92	111.71
1	cy	66	MET	O-C-N	5.40	127.85	122.12
1	cL	66	MET	CB-CA-C	-5.40	101.67	110.85
1	cQ	26	VAL	N-CA-C	5.40	116.13	110.62
1	cZ	28	GLU	O-C-N	-5.40	116.39	122.12
1	d0	69	LEU	O-C-N	-5.40	116.50	122.07
1	d4	23	TRP	N-CA-C	5.40	116.85	111.07
1	d4	101	GLY	CA-C-O	-5.40	115.19	120.75
1	d6	229	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	df	120	HIS	CA-CB-CG	5.40	119.20	113.80
1	dj	208	ALA	CA-C-O	5.40	125.67	119.35
1	dl	49	PRO	CB-CA-C	5.40	120.47	111.56
1	1k	168	PHE	N-CA-C	-5.40	105.08	110.97
1	dE	27	VAL	N-CA-C	5.40	116.03	110.36
1	dE	47	ALA	O-C-N	-5.40	116.25	122.95
1	dL	150	ILE	CA-CB-CG2	5.40	119.69	110.50
1	dX	86	VAL	CA-C-N	5.40	128.06	120.28
1	dX	86	VAL	C-N-CA	5.40	128.06	120.28
1	e0	114	GLN	N-CA-CB	5.40	117.84	110.01
1	ea	59	VAL	N-CA-C	5.40	116.05	109.30
1	ea	203	LYS	N-CA-C	5.40	117.25	111.36
1	ec	40	PHE	N-CA-C	5.40	117.59	111.11
1	ec	121	ASN	CA-CB-CG	-5.40	107.20	112.60
1	ej	57	ASN	CA-C-O	5.40	126.03	119.38
1	ep	221	VAL	CB-CA-C	-5.40	104.48	111.88
1	eB	139	ASN	O-C-N	-5.40	116.39	122.12
1	eQ	225	GLY	O-C-N	-5.40	115.68	122.70
1	eV	212	GLU	N-CA-CB	5.40	117.84	110.01
1	eY	141	ILE	N-CA-CB	5.40	116.87	110.55
1	1v	161	PHE	CA-C-O	5.40	126.28	120.55
1	fa	126	VAL	N-CA-C	5.40	116.03	110.36
1	fc	120	HIS	CE1-NE2-CD2	-5.40	103.60	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1w	91	ILE	CA-CB-CG1	5.40	119.58	110.40
1	fq	75	GLU	N-CA-C	5.40	116.97	111.14
1	fs	159	GLU	N-CA-CB	5.40	120.63	109.45
1	fv	34	PRO	CA-C-O	-5.40	111.44	119.00
1	fA	83	LEU	CA-C-O	5.40	126.59	120.00
1	fP	224	PRO	N-CA-C	5.40	123.60	112.47
1	fS	62	HIS	CB-CG-ND1	-5.40	114.60	122.70
1	fU	130	TYR	CA-C-N	5.40	127.52	120.28
1	fU	130	TYR	C-N-CA	5.40	127.52	120.28
1	fX	179	GLN	CG-CD-NE2	5.40	124.50	116.40
1	g4	146	SER	CB-CA-C	5.40	117.20	109.26
1	g7	64	ALA	CA-C-O	5.40	126.49	120.82
1	e	161	PHE	N-CA-C	5.40	118.09	111.82
1	E	115	ILE	CA-C-N	5.40	127.15	120.34
1	E	115	ILE	C-N-CA	5.40	127.15	120.34
1	F	181	VAL	CA-C-N	5.40	127.83	120.54
1	F	181	VAL	C-N-CA	5.40	127.83	120.54
1	U	115	ILE	CA-C-O	5.40	126.08	120.25
1	6	25	LYS	N-CA-C	5.40	118.67	111.75
1	g9	70	LYS	N-CA-C	5.40	117.17	111.28
1	ga	177	ALA	N-CA-C	5.40	122.30	110.80
1	gj	21	ASN	CA-C-O	5.40	126.14	120.42
1	gy	152	ASP	CA-C-O	5.40	125.67	119.35
1	gC	186	THR	N-CA-CB	5.40	118.03	109.82
1	gG	74	ASN	N-CA-C	5.40	119.13	112.54
1	h0	139	ASN	CA-C-O	-5.40	114.00	120.10
1	h5	42	ALA	CA-C-O	-5.40	114.83	120.55
1	h6	5	ASN	O-C-N	-5.40	115.71	122.24
1	h8	24	VAL	CA-C-N	5.40	127.78	120.44
1	h8	24	VAL	C-N-CA	5.40	127.78	120.44
1	he	192	GLN	N-CA-C	5.40	117.92	111.71
1	hl	23	TRP	CD2-CE2-CZ2	-5.40	117.00	122.40
1	1J	128	GLU	N-CA-C	5.40	116.85	111.07
1	hI	42	ALA	N-CA-CB	-5.40	102.18	110.12
1	hL	14	ALA	N-CA-CB	-5.40	102.39	110.17
1	hS	25	LYS	N-CA-C	5.40	116.85	111.07
1	1N	131	LYS	CA-C-N	5.40	127.46	120.44
1	1N	131	LYS	C-N-CA	5.40	127.46	120.44
1	in	209	ALA	CA-C-N	5.40	129.42	120.94
1	in	209	ALA	C-N-CA	5.40	129.42	120.94
1	1P	176	GLN	CA-C-N	5.40	128.38	120.71
1	1P	176	GLN	C-N-CA	5.40	128.38	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	71	GLU	CA-C-O	5.40	126.28	120.55
1	iC	39	MET	O-C-N	-5.40	116.39	122.12
1	iD	48	THR	CA-C-N	5.40	125.48	119.32
1	iD	48	THR	C-N-CA	5.40	125.48	119.32
1	j7	62	HIS	ND1-CG-CD2	5.40	111.50	106.10
1	jd	4	GLN	N-CA-CB	5.40	118.22	110.06
1	jd	195	ASN	CA-C-O	-5.40	114.22	119.51
1	jf	123	PRO	CA-C-O	-5.40	115.18	121.34
1	jg	21	ASN	CA-CB-CG	5.40	118.00	112.60
1	jj	78	ALA	CA-C-N	5.40	127.46	120.44
1	jj	78	ALA	C-N-CA	5.40	127.46	120.44
1	jm	84	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	jn	214	MET	CG-SD-CE	-5.40	89.02	100.90
1	jx	229	ARG	O-C-N	-5.40	115.71	122.35
1	jH	63	GLN	CA-C-O	-5.40	114.69	120.42
1	jI	71	GLU	N-CA-CB	5.40	118.06	110.12
1	jL	142	VAL	CA-C-O	5.40	126.57	120.95
1	jL	180	GLU	CA-C-N	5.40	127.36	120.56
1	jL	180	GLU	C-N-CA	5.40	127.36	120.56
1	jM	137	GLY	O-C-N	-5.40	117.01	122.19
1	jX	166	ASP	O-C-N	-5.40	116.41	122.03
1	kg	115	ILE	CA-C-N	5.40	132.00	121.41
1	kg	115	ILE	C-N-CA	5.40	132.00	121.41
1	kq	35	GLU	CA-C-N	5.40	129.16	120.30
1	kq	35	GLU	C-N-CA	5.40	129.16	120.30
1	24	15	ILE	O-C-N	-5.40	116.88	122.66
1	l5	116	GLY	CA-C-N	5.40	127.83	120.54
1	l5	116	GLY	C-N-CA	5.40	127.83	120.54
1	l6	180	GLU	N-CA-C	5.40	117.17	111.28
1	26	12	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	lf	219	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	lr	148	THR	CA-C-N	5.40	129.14	121.42
1	lr	148	THR	C-N-CA	5.40	129.14	121.42
1	ly	174	ALA	O-C-N	-5.40	115.90	122.22
1	lR	22	ALA	N-CA-CB	5.40	118.15	110.16
1	2i	167	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	2j	178	SER	CA-C-N	5.40	127.78	120.38
1	2j	178	SER	C-N-CA	5.40	127.78	120.38
1	2l	140	LYS	O-C-N	-5.40	116.39	122.12
1	2p	204	ALA	CB-CA-C	-5.40	102.33	111.02
1	2x	183	ASN	CA-CB-CG	-5.40	107.20	112.60
1	2I	14	ALA	N-CA-C	5.40	118.11	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2I	63	GLN	CA-C-N	5.40	127.46	120.44
1	2I	63	GLN	C-N-CA	5.40	127.46	120.44
1	2J	86	VAL	N-CA-C	-5.40	106.16	111.88
1	2L	148	THR	CA-C-N	5.40	130.00	120.87
1	2L	148	THR	C-N-CA	5.40	130.00	120.87
1	2S	200	THR	CB-CA-C	-5.40	100.30	110.67
1	2X	112	GLN	CA-C-O	-5.40	114.83	120.55
1	36	200	THR	O-C-N	-5.40	116.40	122.12
1	3m	114	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	3A	21	ASN	CB-CG-OD1	5.40	131.60	120.80
1	3B	41	SER	CB-CA-C	5.40	119.75	110.79
1	3G	18	ARG	O-C-N	-5.40	115.01	122.46
1	3I	57	ASN	CA-CB-CG	-5.40	107.20	112.60
1	3J	130	TYR	N-CA-C	5.40	117.17	111.28
1	41	17	PRO	CB-CA-C	5.40	120.63	112.21
1	42	18	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	46	56	LEU	CA-C-N	5.40	127.52	120.28
1	46	56	LEU	C-N-CA	5.40	127.52	120.28
1	4a	113	GLU	CA-C-N	5.40	127.46	120.44
1	4a	113	GLU	C-N-CA	5.40	127.46	120.44
1	4h	21	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	4q	194	ALA	N-CA-C	5.40	117.26	110.24
1	4t	141	ILE	O-C-N	-5.40	116.63	121.87
1	4O	191	VAL	CA-C-N	5.40	128.52	120.31
1	4O	191	VAL	C-N-CA	5.40	128.52	120.31
1	4U	59	VAL	N-CA-C	5.40	116.66	109.37
1	57	12	HIS	CA-C-N	-5.40	114.11	122.59
1	57	12	HIS	C-N-CA	-5.40	114.11	122.59
1	5m	226	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	5r	17	PRO	CA-C-N	5.40	127.96	120.29
1	5r	17	PRO	C-N-CA	5.40	127.96	120.29
1	5w	50	GLN	CB-CA-C	-5.40	102.40	110.88
1	5P	160	PRO	N-CA-C	5.40	123.59	112.47
1	5W	50	GLN	CB-CG-CD	5.40	121.78	112.60
1	5Z	57	ASN	CA-CB-CG	5.40	118.00	112.60
1	6c	207	PRO	N-CA-CB	5.40	108.92	103.25
1	6t	36	VAL	CA-C-N	5.40	124.65	120.33
1	6t	36	VAL	C-N-CA	5.40	124.65	120.33
1	6x	201	ILE	N-CA-C	5.40	118.68	111.44
1	6H	39	MET	CA-C-N	5.40	127.96	120.29
1	6H	39	MET	C-N-CA	5.40	127.96	120.29
1	6M	151	LEU	N-CA-C	-5.40	106.53	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6R	146	SER	N-CA-CB	5.40	118.01	110.07
1	75	23	TRP	CA-C-O	-5.40	115.15	120.82
1	79	53	ASN	CA-CB-CG	5.40	118.00	112.60
1	7h	53	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	7i	178	SER	N-CA-CB	-5.40	100.65	109.56
1	7A	72	THR	O-C-N	-5.40	116.51	122.07
1	7L	198	CYS	N-CA-C	5.40	117.59	111.11
1	7X	78	ALA	CA-C-N	5.40	127.83	120.54
1	7X	78	ALA	C-N-CA	5.40	127.83	120.54
1	89	54	THR	N-CA-C	5.40	117.59	111.11
1	8b	172	LEU	CA-C-N	5.40	127.78	120.38
1	8b	172	LEU	C-N-CA	5.40	127.78	120.38
1	8c	84	HIS	CA-C-O	-5.40	115.33	119.71
1	8k	196	PRO	O-C-N	5.40	129.89	122.38
1	8n	200	THR	O-C-N	-5.40	116.47	122.09
1	8q	38	PRO	CB-CA-C	-5.40	103.80	111.68
1	8r	177	ALA	N-CA-C	5.40	118.30	110.42
1	8x	190	LEU	CA-C-O	5.40	126.02	119.11
1	8K	228	ALA	CA-C-N	5.40	131.85	121.54
1	8K	228	ALA	C-N-CA	5.40	131.85	121.54
1	8N	87	HIS	CA-CB-CG	5.40	119.20	113.80
1	8P	142	VAL	CB-CA-C	5.40	118.79	111.88
1	8P	161	PHE	CA-CB-CG	5.40	119.20	113.80
1	8W	48	THR	CA-C-N	5.40	126.59	119.84
1	8W	48	THR	C-N-CA	5.40	126.59	119.84
1	90	121	ASN	CA-C-O	-5.40	114.81	119.72
1	92	104	ILE	CA-C-O	5.40	126.67	121.05
1	9f	173	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	9h	110	THR	CA-CB-OG1	5.40	117.70	109.60
1	9l	23	TRP	CB-CA-C	5.40	119.43	110.90
1	9u	134	ILE	CA-C-N	5.40	127.36	120.56
1	9u	134	ILE	C-N-CA	5.40	127.36	120.56
1	9I	5	ASN	CA-C-O	5.40	127.08	120.92
1	9K	200	THR	CA-C-N	5.40	127.37	120.56
1	9K	200	THR	C-N-CA	5.40	127.37	120.56
1	9Q	53	ASN	CA-C-O	5.40	126.28	120.55
1	9U	56	LEU	CA-C-O	5.40	126.26	120.70
1	Z	136	LEU	CA-C-N	5.40	125.83	119.94
1	Z	136	LEU	C-N-CA	5.40	125.83	119.94
1	ah	199	LYS	O-C-N	-5.40	116.47	122.09
1	aq	5	ASN	O-C-N	-5.40	116.17	122.81
1	12	97	ARG	NH1-CZ-NH2	-5.40	112.28	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aC	79	GLU	CA-C-N	5.40	127.52	120.28
1	aC	79	GLU	C-N-CA	5.40	127.52	120.28
1	aF	26	VAL	CA-CB-CG2	-5.40	101.22	110.40
1	aM	183	ASN	N-CA-C	5.40	117.17	111.28
1	aY	15	ILE	CA-C-O	5.40	127.39	121.13
1	b2	185	MET	N-CA-C	5.40	116.85	111.07
1	b9	103	ASP	N-CA-CB	5.40	117.90	110.07
1	bb	188	THR	CA-C-N	5.40	128.06	120.28
1	bb	188	THR	C-N-CA	5.40	128.06	120.28
1	bf	100	ARG	CA-C-N	5.40	126.08	120.03
1	bf	100	ARG	C-N-CA	5.40	126.08	120.03
1	bk	167	ARG	CB-CG-CD	5.40	123.72	111.30
1	bs	81	ASP	O-C-N	-5.40	116.26	122.09
1	bt	101	GLY	CA-C-O	5.40	126.31	120.75
1	bH	52	LEU	CB-CA-C	5.40	119.45	110.81
1	bY	134	ILE	O-C-N	-5.40	116.62	121.91
1	c2	47	ALA	O-C-N	-5.40	116.89	123.16
1	ca	224	PRO	CB-CA-C	5.40	120.47	111.56
1	ce	158	LYS	O-C-N	-5.40	114.95	122.19
1	cl	133	TRP	CA-CB-CG	5.40	123.86	113.60
1	cl	134	ILE	N-CA-C	5.40	116.13	110.62
1	cs	168	PHE	CB-CG-CD2	5.40	129.88	120.70
1	cu	123	PRO	O-C-N	-5.40	116.13	122.99
1	cu	182	LYS	CA-C-N	5.40	127.52	120.28
1	cu	182	LYS	C-N-CA	5.40	127.52	120.28
1	cx	173	ARG	NE-CZ-NH2	5.40	124.06	119.20
1	cx	176	GLN	CG-CD-OE1	-5.40	110.00	120.80
1	cR	133	TRP	N-CA-C	5.40	117.25	111.36
1	cR	188	THR	CA-C-N	5.40	127.52	120.28
1	cR	188	THR	C-N-CA	5.40	127.52	120.28
1	cS	205	LEU	N-CA-CB	5.40	117.84	110.01
1	d5	33	SER	CA-C-N	5.40	125.07	119.56
1	d5	33	SER	C-N-CA	5.40	125.07	119.56
1	db	18	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	dG	39	MET	CA-C-O	5.40	126.14	120.42
1	1m	50	GLN	CB-CA-C	-5.40	98.92	110.32
1	dJ	202	LEU	O-C-N	-5.40	116.51	122.07
1	dM	32	PHE	CA-CB-CG	-5.40	108.40	113.80
1	dM	133	TRP	N-CA-CB	5.40	117.99	109.94
1	dO	210	THR	CB-CA-C	5.40	119.20	109.64
1	dQ	134	ILE	CA-C-N	5.40	127.36	120.56
1	dQ	134	ILE	C-N-CA	5.40	127.36	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	172	LEU	O-C-N	-5.40	115.71	122.35
1	1p	57	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	eg	25	LYS	N-CA-C	5.40	116.85	111.07
1	1q	119	THR	CA-CB-OG1	5.40	117.70	109.60
1	ev	76	GLU	CA-C-N	5.40	127.96	120.29
1	ev	76	GLU	C-N-CA	5.40	127.96	120.29
1	1r	71	GLU	CA-C-N	5.40	127.46	120.44
1	1r	71	GLU	C-N-CA	5.40	127.46	120.44
1	1r	83	LEU	CA-C-O	5.40	126.46	120.63
1	ew	62	HIS	CG-ND1-CE1	-5.40	100.12	109.30
1	eB	120	HIS	N-CA-C	5.40	117.84	110.55
1	eC	27	VAL	O-C-N	-5.40	116.63	121.87
1	eD	143	ARG	CA-C-O	5.40	126.18	119.97
1	eJ	227	LYS	CA-C-O	5.40	128.23	120.51
1	eT	138	LEU	O-C-N	-5.40	116.51	122.07
1	eW	62	HIS	CG-CD2-NE2	-5.40	101.80	107.20
1	fa	228	ALA	O-C-N	-5.40	116.23	122.87
1	fh	194	ALA	N-CA-CB	5.40	117.98	110.26
1	fn	36	VAL	N-CA-C	5.40	116.78	110.62
1	fs	148	THR	CA-C-N	5.40	131.85	121.54
1	fs	148	THR	C-N-CA	5.40	131.85	121.54
1	fz	125	PRO	CB-CA-C	5.40	120.36	112.64
1	fC	28	GLU	CA-C-N	5.40	127.46	120.44
1	fC	28	GLU	C-N-CA	5.40	127.46	120.44
1	1y	114	GLN	CA-C-O	5.40	126.27	120.55
1	fM	50	GLN	N-CA-C	5.40	117.17	111.28
1	1z	73	ILE	CA-C-N	5.40	127.52	120.28
1	1z	73	ILE	C-N-CA	5.40	127.52	120.28
1	fQ	36	VAL	CA-C-N	5.40	124.65	120.33
1	fQ	36	VAL	C-N-CA	5.40	124.65	120.33
1	fX	18	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	1A	73	ILE	CA-C-N	5.40	127.46	120.44
1	1A	73	ILE	C-N-CA	5.40	127.46	120.44
1	1B	154	ARG	CA-C-N	5.40	129.85	121.26
1	1B	154	ARG	C-N-CA	5.40	129.85	121.26
1	1	214	MET	N-CA-C	5.40	116.85	111.07
1	p	189	LEU	CA-C-O	-5.40	114.83	120.55
1	r	159	GLU	CA-C-N	5.40	125.41	119.90
1	r	159	GLU	C-N-CA	5.40	125.41	119.90
1	E	221	VAL	O-C-N	-5.40	116.91	122.63
1	H	11	VAL	CA-CB-CG2	5.40	119.58	110.40
1	K	85	PRO	CA-C-N	5.40	129.11	121.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	85	PRO	C-N-CA	5.40	129.11	121.66
1	M	40	PHE	CA-C-N	5.40	127.52	120.28
1	M	40	PHE	C-N-CA	5.40	127.52	120.28
1	N	155	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	4	127	GLY	CA-C-O	5.40	126.39	120.66
1	V	159	GLU	CB-CG-CD	-5.40	103.42	112.60
1	gq	66	MET	CA-C-N	5.40	127.96	120.29
1	gq	66	MET	C-N-CA	5.40	127.96	120.29
1	gK	138	LEU	CA-C-N	5.40	127.78	120.38
1	gK	138	LEU	C-N-CA	5.40	127.78	120.38
1	h5	200	THR	CA-CB-CG2	5.40	119.68	110.50
1	hj	143	ARG	CA-C-N	5.40	127.51	120.28
1	hj	143	ARG	C-N-CA	5.40	127.51	120.28
1	hA	62	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	i4	50	GLN	N-CA-C	5.40	117.17	111.28
1	is	52	LEU	CA-C-N	5.40	127.78	120.44
1	is	52	LEU	C-N-CA	5.40	127.78	120.44
1	iC	136	LEU	CA-C-N	5.40	131.99	121.41
1	iC	136	LEU	C-N-CA	5.40	131.99	121.41
1	iQ	12	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	j9	167	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	jm	20	LEU	CA-C-N	5.40	127.52	120.28
1	jm	20	LEU	C-N-CA	5.40	127.52	120.28
1	jB	140	LYS	O-C-N	-5.40	116.47	122.09
1	jD	24	VAL	CA-C-N	5.40	127.83	120.54
1	jD	24	VAL	C-N-CA	5.40	127.83	120.54
1	1Z	17	PRO	N-CA-C	-5.40	106.98	114.27
1	kj	58	THR	O-C-N	-5.40	116.40	122.12
1	kz	52	LEU	N-CA-C	5.40	117.17	111.28
1	l9	229	ARG	N-CA-C	5.40	118.51	110.52
1	lv	226	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	lC	12	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	lE	118	MET	N-CA-C	5.40	117.86	111.33
1	lK	87	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	lM	117	TRP	CA-C-N	5.40	129.81	120.58
1	lM	117	TRP	C-N-CA	5.40	129.81	120.58
1	2i	202	LEU	O-C-N	-5.40	116.40	122.12
1	2C	223	GLY	CA-C-N	5.40	126.59	119.84
1	2C	223	GLY	C-N-CA	5.40	126.59	119.84
1	2P	23	TRP	O-C-N	5.40	127.84	122.12
1	2V	43	LEU	N-CA-C	5.40	117.25	111.36
1	2Y	183	ASN	CB-CG-ND2	5.40	124.50	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	67	GLN	O-C-N	-5.40	116.40	122.12
1	3P	226	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	46	221	VAL	CB-CA-C	5.40	117.40	111.08
1	4j	39	MET	CA-C-N	5.40	127.52	120.28
1	4j	39	MET	C-N-CA	5.40	127.52	120.28
1	4k	20	LEU	O-C-N	-5.40	116.40	122.12
1	4T	22	ALA	O-C-N	-5.40	116.26	122.09
1	4W	153	ILE	N-CA-C	5.40	116.49	108.23
1	53	160	PRO	CA-C-N	5.40	127.52	120.28
1	53	160	PRO	C-N-CA	5.40	127.52	120.28
1	5o	88	ALA	CB-CA-C	-5.40	99.21	109.95
1	5q	16	SER	CA-C-N	5.40	126.59	119.84
1	5q	16	SER	C-N-CA	5.40	126.59	119.84
1	5B	139	ASN	N-CA-C	5.40	117.17	111.28
1	5G	51	ASP	CA-C-O	5.40	126.14	120.42
1	5N	223	GLY	CA-C-N	5.40	125.32	119.76
1	5N	223	GLY	C-N-CA	5.40	125.32	119.76
1	5S	169	TYR	CB-CG-CD2	5.40	128.90	120.80
1	5W	142	VAL	CB-CA-C	-5.40	105.06	111.97
1	5Y	145	TYR	CA-C-O	5.40	128.23	120.51
1	62	228	ALA	CA-C-O	-5.40	115.21	121.15
1	67	130	TYR	CA-C-N	5.40	127.83	120.54
1	67	130	TYR	C-N-CA	5.40	127.83	120.54
1	6p	146	SER	CB-CA-C	-5.40	100.91	109.82
1	6q	87	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	6t	223	GLY	CA-C-N	5.40	125.32	119.76
1	6t	223	GLY	C-N-CA	5.40	125.32	119.76
1	6B	155	GLN	O-C-N	-5.40	116.58	123.06
1	6D	182	LYS	O-C-N	-5.40	116.40	122.12
1	6O	11	VAL	O-C-N	-5.40	117.36	123.03
1	71	184	TRP	N-CA-C	5.40	117.17	111.28
1	71	220	GLY	CA-C-O	5.40	129.96	120.57
1	7a	123	PRO	CA-C-N	-5.40	117.41	123.02
1	7a	123	PRO	C-N-CA	-5.40	117.41	123.02
1	7e	160	PRO	CA-C-N	5.40	127.96	120.29
1	7e	160	PRO	C-N-CA	5.40	127.96	120.29
1	7k	100	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	7C	2	ILE	CB-CA-C	-5.40	105.06	111.65
1	7S	167	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	84	128	GLU	O-C-N	-5.40	116.40	122.12
1	8R	206	GLY	CA-C-N	5.40	125.11	119.82
1	8R	206	GLY	C-N-CA	5.40	125.11	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	91	150	ILE	N-CA-C	-5.40	107.48	112.83
1	9h	37	ILE	N-CA-C	5.40	120.54	108.88
1	9w	66	MET	N-CA-C	5.40	116.85	111.07
1	9z	112	GLN	O-C-N	5.40	128.54	122.22
1	9C	207	PRO	CA-C-O	-5.40	115.30	121.56
1	9J	13	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	Z	158	LYS	CB-CA-C	-5.40	100.00	109.07
1	a1	77	ALA	N-CA-C	5.40	117.17	111.28
1	as	193	ASN	CB-CG-ND2	-5.40	108.30	116.40
1	at	33	SER	N-CA-CB	5.40	117.55	109.88
1	aE	168	PHE	N-CA-C	5.40	116.85	111.07
1	aI	84	HIS	N-CA-C	5.40	117.53	110.08
1	aQ	53	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	aY	103	ASP	CB-CA-C	-5.40	101.67	110.85
1	bf	176	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	bk	132	ARG	NH1-CZ-NH2	-5.40	112.28	119.30
1	bI	173	ARG	N-CA-C	5.40	117.25	111.36
1	bJ	20	LEU	CA-C-N	5.40	128.52	120.31
1	bJ	20	LEU	C-N-CA	5.40	128.52	120.31
1	bN	195	ASN	CA-C-N	5.40	125.47	119.32
1	bN	195	ASN	C-N-CA	5.40	125.47	119.32
1	cr	178	SER	CA-C-N	5.40	128.29	120.79
1	cr	178	SER	C-N-CA	5.40	128.29	120.79
1	cD	101	GLY	O-C-N	-5.40	116.52	122.24
1	d2	36	VAL	N-CA-C	-5.40	105.27	110.72
1	di	124	ILE	CB-CA-C	5.40	116.15	110.37
1	dt	71	GLU	CA-C-N	5.40	127.52	120.28
1	dt	71	GLU	C-N-CA	5.40	127.52	120.28
1	dK	64	ALA	CA-C-N	5.40	127.78	120.44
1	dK	64	ALA	C-N-CA	5.40	127.78	120.44
1	dP	67	GLN	N-CA-C	5.40	117.16	111.28
1	dZ	72	THR	CA-CB-CG2	5.40	119.68	110.50
1	e1	58	THR	N-CA-CB	5.40	118.15	110.16
1	eb	36	VAL	N-CA-C	5.40	120.47	113.07
1	eq	12	HIS	N-CA-C	5.40	118.06	110.23
1	es	66	MET	N-CA-CB	5.40	118.06	110.12
1	ey	225	GLY	CA-C-N	5.40	127.52	120.28
1	ey	225	GLY	C-N-CA	5.40	127.52	120.28
1	eB	81	ASP	N-CA-CB	-5.40	101.91	110.22
1	eS	167	ARG	CA-C-N	5.40	127.96	120.29
1	eS	167	ARG	C-N-CA	5.40	127.96	120.29
1	f6	15	ILE	CA-CB-CG1	5.40	119.58	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fi	181	VAL	CB-CA-C	-5.40	104.77	112.22
1	fG	229	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	fQ	31	ALA	CB-CA-C	-5.40	108.76	115.89
1	g1	163	ASP	CA-C-N	5.40	129.73	120.71
1	g1	163	ASP	C-N-CA	5.40	129.73	120.71
1	r	210	THR	O-C-N	-5.40	116.64	122.79
1	C	169	TYR	N-CA-C	5.40	116.85	111.07
1	gh	84	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	gk	74	ASN	CA-C-N	5.40	127.51	120.28
1	gk	74	ASN	C-N-CA	5.40	127.51	120.28
1	gm	100	ARG	O-C-N	-5.40	116.58	122.84
1	gn	111	LEU	N-CA-C	5.40	116.84	111.07
1	go	97	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	go	132	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	gp	48	THR	N-CA-CB	5.40	117.82	110.05
1	gu	5	ASN	CA-CB-CG	-5.40	107.20	112.60
1	gD	135	ILE	O-C-N	-5.40	116.63	121.87
1	gH	132	ARG	NE-CZ-NH2	-5.40	114.34	119.20
1	gR	90	PRO	CA-C-N	5.40	130.64	122.98
1	gR	90	PRO	C-N-CA	5.40	130.64	122.98
1	gV	78	ALA	N-CA-C	5.40	116.85	111.07
1	h0	128	GLU	CA-C-N	5.40	127.47	120.56
1	h0	128	GLU	C-N-CA	5.40	127.47	120.56
1	h4	183	ASN	OD1-CG-ND2	-5.40	117.20	122.60
1	h5	94	GLY	CA-C-O	5.40	124.88	119.27
1	h9	144	MET	N-CA-CB	-5.40	101.92	110.28
1	hg	219	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	hj	87	HIS	N-CA-C	5.40	118.84	111.39
1	hr	21	ASN	CB-CA-C	5.40	119.75	110.79
1	hr	84	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	hL	62	HIS	N-CA-CB	5.40	119.61	110.49
1	hQ	201	ILE	CA-C-O	-5.40	115.34	120.95
1	i7	67	GLN	CA-C-O	-5.40	115.12	120.90
1	ie	98	GLU	CB-CG-CD	5.40	121.78	112.60
1	ip	149	SER	O-C-N	-5.40	116.88	123.30
1	iA	86	VAL	CB-CA-C	-5.40	104.22	110.91
1	iC	172	LEU	O-C-N	-5.40	116.05	122.20
1	iD	203	LYS	CA-C-N	5.40	127.51	120.28
1	iD	203	LYS	C-N-CA	5.40	127.51	120.28
1	1S	166	ASP	CA-C-O	5.40	126.27	120.55
1	iW	112	GLN	O-C-N	-5.40	115.91	122.22
1	1T	210	THR	N-CA-C	-5.40	102.53	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	je	191	VAL	CA-CB-CG2	-5.40	101.23	110.40
1	jo	141	ILE	CA-C-O	5.40	126.11	119.58
1	jA	116	GLY	CA-C-N	5.40	127.51	120.28
1	jA	116	GLY	C-N-CA	5.40	127.51	120.28
1	1X	120	HIS	ND1-CE1-NE2	5.40	113.80	108.40
1	jN	45	GLU	CA-C-O	-5.40	114.97	120.80
1	jQ	71	GLU	O-C-N	-5.40	116.51	122.07
1	21	91	ILE	CA-CB-CG1	5.40	119.57	110.40
1	kH	33	SER	CA-C-N	5.40	125.47	119.32
1	kH	33	SER	C-N-CA	5.40	125.47	119.32
1	kH	81	ASP	N-CA-C	5.40	117.24	111.36
1	27	90	PRO	N-CA-C	5.40	119.68	111.15
1	lm	62	HIS	ND1-CG-CD2	5.40	111.50	106.10
1	28	84	HIS	CB-CG-ND1	5.40	130.79	122.70
1	lv	90	PRO	N-CA-CB	-5.40	97.58	103.25
1	lv	182	LYS	N-CA-C	5.40	117.16	111.28
1	lx	194	ALA	CA-C-N	5.40	128.86	120.60
1	lx	194	ALA	C-N-CA	5.40	128.86	120.60
1	lB	25	LYS	O-C-N	-5.40	115.01	122.46
1	lF	211	LEU	O-C-N	-5.40	115.20	122.43
1	lL	81	ASP	O-C-N	-5.40	115.62	122.26
1	lQ	16	SER	CA-C-N	5.40	125.09	119.64
1	lQ	16	SER	C-N-CA	5.40	125.09	119.64
1	2A	53	ASN	CA-C-O	5.40	126.46	120.63
1	2G	86	VAL	CB-CA-C	5.40	119.37	111.33
1	2G	200	THR	N-CA-CB	5.40	118.90	109.72
1	2M	19	THR	O-C-N	-5.40	116.40	122.12
1	2S	75	GLU	N-CA-C	5.40	117.16	111.28
1	3h	12	HIS	CA-CB-CG	5.40	119.20	113.80
1	3t	126	VAL	N-CA-C	5.40	116.77	110.62
1	3A	2	ILE	O-C-N	-5.40	115.84	122.97
1	3H	9	GLN	CA-C-O	5.40	127.67	120.98
1	3K	96	MET	CA-C-N	5.40	131.85	121.54
1	3K	96	MET	C-N-CA	5.40	131.85	121.54
1	3W	8	GLY	O-C-N	-5.40	116.38	122.96
1	43	178	SER	CA-C-N	5.40	128.51	120.31
1	43	178	SER	C-N-CA	5.40	128.51	120.31
1	46	112	GLN	CA-CB-CG	5.40	124.89	114.10
1	4i	188	THR	CA-CB-OG1	5.40	117.70	109.60
1	4l	23	TRP	CA-C-N	5.40	127.56	120.60
1	4l	23	TRP	C-N-CA	5.40	127.56	120.60
1	4r	28	GLU	N-CA-CB	5.40	119.35	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	26	VAL	N-CA-CB	5.40	116.86	110.55
1	4B	171	THR	CA-C-N	5.40	127.51	120.28
1	4B	171	THR	C-N-CA	5.40	127.51	120.28
1	4G	112	GLN	CB-CG-CD	5.40	121.78	112.60
1	4I	24	VAL	N-CA-C	-5.40	105.12	111.00
1	4L	6	LEU	N-CA-CB	5.40	119.61	110.49
1	4M	120	HIS	CA-CB-CG	-5.40	108.40	113.80
1	4Q	137	GLY	CA-C-N	5.40	127.46	120.44
1	4Q	137	GLY	C-N-CA	5.40	127.46	120.44
1	57	198	CYS	CA-C-N	5.40	127.51	120.28
1	57	198	CYS	C-N-CA	5.40	127.51	120.28
1	59	124	ILE	O-C-N	-5.40	117.72	121.55
1	5g	154	ARG	CD-NE-CZ	5.40	131.96	124.40
1	5A	210	THR	CA-C-O	5.40	126.08	120.30
1	5H	112	GLN	N-CA-C	5.40	116.84	111.07
1	5J	23	TRP	CA-C-N	5.40	128.09	120.42
1	5J	23	TRP	C-N-CA	5.40	128.09	120.42
1	5L	212	GLU	CA-C-N	5.40	127.51	120.28
1	5L	212	GLU	C-N-CA	5.40	127.51	120.28
1	5R	33	SER	CA-C-N	5.40	125.07	119.56
1	5R	33	SER	C-N-CA	5.40	125.07	119.56
1	5R	197	ASP	N-CA-CB	5.40	118.06	110.12
1	5U	15	ILE	O-C-N	-5.40	116.73	122.61
1	67	21	ASN	CA-C-N	5.40	127.46	120.44
1	67	21	ASN	C-N-CA	5.40	127.46	120.44
1	6n	7	GLN	N-CA-CB	5.40	119.61	110.49
1	6L	14	ALA	O-C-N	-5.40	116.88	123.19
1	6M	131	LYS	N-CA-C	5.40	116.84	111.07
1	6W	160	PRO	N-CA-CB	-5.40	97.71	103.38
1	70	74	ASN	CA-C-N	5.40	127.95	120.29
1	70	74	ASN	C-N-CA	5.40	127.95	120.29
1	7k	9	GLN	CA-C-N	5.40	128.05	120.28
1	7k	9	GLN	C-N-CA	5.40	128.05	120.28
1	7k	39	MET	CA-C-O	5.40	126.26	120.70
1	7p	189	LEU	N-CA-C	5.40	118.08	111.82
1	7s	186	THR	OG1-CB-CG2	-5.40	98.50	109.30
1	7t	96	MET	N-CA-C	5.40	118.06	110.23
1	7w	202	LEU	CA-C-N	5.40	127.95	120.29
1	7w	202	LEU	C-N-CA	5.40	127.95	120.29
1	7M	11	VAL	O-C-N	-5.40	117.21	122.93
1	87	215	MET	CA-C-O	5.40	125.59	119.27
1	8e	202	LEU	N-CA-C	5.40	117.59	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8s	86	VAL	CB-CA-C	-5.40	104.43	110.96
1	8w	104	ILE	CA-CB-CG2	5.40	119.68	110.50
1	8x	32	PHE	O-C-N	-5.40	116.23	122.87
1	8B	124	ILE	N-CA-C	-5.40	101.72	107.77
1	8N	50	GLN	N-CA-C	5.40	116.84	111.07
1	8Z	10	MET	CB-CA-C	-5.40	99.53	109.46
1	91	29	GLU	CA-C-O	5.40	124.75	118.97
1	93	117	TRP	CA-C-N	5.40	130.58	121.14
1	93	117	TRP	C-N-CA	5.40	130.58	121.14
1	93	161	PHE	O-C-N	-5.40	116.40	122.12
1	96	226	HIS	N-CA-CB	5.40	118.04	109.51
1	9j	208	ALA	CA-C-N	5.40	131.85	121.54
1	9j	208	ALA	C-N-CA	5.40	131.85	121.54
1	9n	26	VAL	CB-CA-C	-5.40	103.36	112.16
1	9E	90	PRO	N-CA-C	5.40	119.68	111.15
1	9G	124	ILE	CA-C-O	5.40	123.35	119.25
1	9G	180	GLU	CA-C-N	5.40	127.86	120.46
1	9G	180	GLU	C-N-CA	5.40	127.86	120.46
1	9I	158	LYS	N-CA-C	5.40	119.97	113.17
1	9L	148	THR	O-C-N	-5.40	116.23	122.87
1	9U	138	LEU	O-C-N	-5.40	116.51	122.07
1	Z	177	ALA	O-C-N	-5.40	115.41	122.59
1	a6	217	ALA	CB-CA-C	5.40	118.32	109.90
1	a7	214	MET	CG-SD-CE	-5.40	89.02	100.90
1	aj	71	GLU	CB-CA-C	5.40	119.45	110.81
1	aj	112	GLN	CG-CD-OE1	5.40	131.59	120.80
1	ax	95	GLN	O-C-N	-5.40	116.78	123.36
1	aA	49	PRO	CA-N-CD	-5.40	104.44	112.00
1	aE	71	GLU	N-CA-C	5.40	117.16	111.28
1	aG	94	GLY	CA-C-O	5.40	124.25	119.56
1	aH	135	ILE	N-CA-C	5.40	115.60	110.42
1	aV	70	LYS	CA-C-N	5.40	127.46	120.44
1	aV	70	LYS	C-N-CA	5.40	127.46	120.44
1	aW	119	THR	CA-C-O	5.40	125.66	119.35
1	aY	59	VAL	N-CA-C	5.40	116.53	108.54
1	bd	113	GLU	CA-C-N	5.40	127.46	120.44
1	bd	113	GLU	C-N-CA	5.40	127.46	120.44
1	bk	12	HIS	ND1-CG-CD2	-5.40	100.70	106.10
1	br	87	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	bv	13	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	bw	75	GLU	O-C-N	-5.40	116.40	122.12
1	bB	230	VAL	CA-CB-CG1	5.40	119.58	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bD	195	ASN	N-CA-C	5.40	117.34	109.84
1	bP	177	ALA	CA-C-N	5.40	131.85	121.54
1	bP	177	ALA	C-N-CA	5.40	131.85	121.54
1	bR	19	THR	CA-CB-CG2	5.40	119.67	110.50
1	bX	48	THR	CA-C-O	-5.40	114.82	120.70
1	c1	71	GLU	N-CA-C	5.40	118.08	111.82
1	c4	139	ASN	CA-C-O	5.40	126.14	120.42
1	ca	166	ASP	O-C-N	5.40	127.84	122.12
1	ci	161	PHE	O-C-N	-5.40	115.91	122.22
1	ck	36	VAL	CA-C-O	-5.40	115.13	120.85
1	cn	39	MET	CG-SD-CE	-5.40	89.03	100.90
1	cB	167	ARG	N-CA-C	5.40	117.16	111.28
1	cF	38	PRO	N-CA-CB	5.40	109.24	103.52
1	cL	54	THR	N-CA-CB	5.40	117.98	109.94
1	d2	86	VAL	CB-CA-C	5.40	119.37	111.33
1	1j	139	ASN	CA-C-O	5.40	126.49	120.82
1	de	155	GLN	CG-CD-NE2	5.40	124.50	116.40
1	dn	111	LEU	CA-C-N	5.40	127.95	120.29
1	dn	111	LEU	C-N-CA	5.40	127.95	120.29
1	dq	184	TRP	CB-CG-CD1	5.40	135.00	126.90
1	ds	101	GLY	N-CA-C	5.40	119.41	112.83
1	dt	53	ASN	OD1-CG-ND2	5.40	128.00	122.60
1	dw	96	MET	CA-C-N	5.40	129.99	120.87
1	dw	96	MET	C-N-CA	5.40	129.99	120.87
1	dH	49	PRO	N-CA-C	5.40	123.59	112.47
1	dN	102	SER	O-C-N	-5.40	115.91	122.22
1	dO	146	SER	N-CA-C	5.40	120.82	113.16
1	e0	17	PRO	N-CA-CB	5.40	108.33	103.20
1	e3	100	ARG	CG-CD-NE	-5.40	100.12	112.00
1	en	226	HIS	CA-CB-CG	-5.40	108.40	113.80
1	eo	222	GLY	O-C-N	-5.40	116.98	122.70
1	er	23	TRP	CA-C-N	5.40	127.36	120.56
1	er	23	TRP	C-N-CA	5.40	127.36	120.56
1	ew	93	PRO	N-CD-CG	5.40	111.30	103.20
1	eC	133	TRP	CA-C-O	5.40	126.67	120.90
1	eU	41	SER	CA-C-N	5.40	127.95	120.29
1	eU	41	SER	C-N-CA	5.40	127.95	120.29
1	fx	46	GLY	O-C-N	-5.40	116.16	122.31
1	fx	56	LEU	O-C-N	-5.40	116.40	122.12
1	fK	166	ASP	CA-CB-CG	5.40	118.00	112.60
1	1z	119	THR	CA-C-N	5.40	128.37	120.71
1	1z	119	THR	C-N-CA	5.40	128.37	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	208	ALA	CA-C-N	5.40	128.51	120.95
1	fR	208	ALA	C-N-CA	5.40	128.51	120.95
1	fU	61	GLY	N-CA-C	5.40	118.88	111.54
1	fV	100	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	fV	176	GLN	CA-C-N	5.40	128.90	120.75
1	fV	176	GLN	C-N-CA	5.40	128.90	120.75
1	g0	169	TYR	O-C-N	-5.40	116.40	122.12
1	g3	158	LYS	CA-C-N	5.40	128.88	120.68
1	g3	158	LYS	C-N-CA	5.40	128.88	120.68
1	e	33	SER	CA-C-O	-5.40	112.77	120.16
1	h	125	PRO	N-CA-CB	5.40	106.57	102.36
1	h	126	VAL	CA-C-O	5.40	126.56	120.95
1	i	132	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	l	165	VAL	O-C-N	-5.40	116.62	121.91
1	w	184	TRP	CE3-CZ3-CH2	-5.40	114.08	121.10
1	B	20	LEU	N-CA-C	5.40	117.16	111.28
1	gP	149	SER	N-CA-C	5.40	119.03	109.96
1	h0	164	TYR	N-CA-C	5.40	117.59	111.11
1	ha	186	THR	O-C-N	-5.40	116.48	122.09
1	hh	200	THR	N-CA-C	5.40	116.84	111.07
1	hl	217	ALA	O-C-N	-5.40	116.23	122.87
1	hm	121	ASN	CB-CG-ND2	5.40	124.49	116.40
1	hD	59	VAL	CB-CA-C	-5.40	103.29	111.33
1	hE	117	TRP	N-CA-C	5.40	117.16	111.28
1	hM	170	LYS	N-CA-C	5.40	117.16	111.28
1	i0	118	MET	CG-SD-CE	-5.40	89.03	100.90
1	1P	124	ILE	O-C-N	-5.40	114.95	121.10
1	iS	217	ALA	CA-C-O	-5.40	112.79	120.51
1	jm	37	ILE	N-CA-C	5.40	118.83	112.35
1	jT	91	ILE	N-CA-C	5.40	116.47	111.45
1	kg	26	VAL	CA-CB-CG1	5.40	119.57	110.40
1	kg	50	GLN	O-C-N	-5.40	116.40	122.12
1	kF	142	VAL	CA-C-O	5.40	126.56	120.95
1	ll	185	MET	CA-CB-CG	-5.40	103.31	114.10
1	lC	7	GLN	OE1-CD-NE2	-5.40	117.20	122.60
1	lJ	140	LYS	N-CA-C	5.40	117.86	111.33
1	2s	51	ASP	CB-CA-C	-5.40	102.41	110.88
1	2u	186	THR	CA-CB-CG2	-5.40	101.33	110.50
1	2D	226	HIS	O-C-N	-5.40	115.83	123.01
1	2M	72	THR	O-C-N	-5.40	116.40	122.12
1	2P	202	LEU	N-CA-C	5.40	117.58	111.11
1	35	54	THR	CA-C-O	5.40	126.27	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3c	108	THR	N-CA-C	5.40	120.55	112.94
1	3E	202	LEU	CA-C-N	5.40	127.51	120.28
1	3E	202	LEU	C-N-CA	5.40	127.51	120.28
1	3F	91	ILE	N-CA-CB	5.40	116.41	110.53
1	42	177	ALA	N-CA-C	5.40	117.25	110.24
1	4q	117	TRP	CB-CG-CD1	5.40	134.99	126.90
1	4P	48	THR	N-CA-CB	5.40	117.54	109.88
1	4V	209	ALA	CA-C-O	-5.40	115.61	121.44
1	5d	35	GLU	CA-C-O	5.40	126.02	119.49
1	5g	124	ILE	CA-C-O	-5.40	114.01	119.89
1	5r	110	THR	N-CA-CB	5.40	119.16	110.85
1	5t	201	ILE	N-CA-CB	-5.40	103.20	110.54
1	5O	53	ASN	O-C-N	-5.40	116.40	122.12
1	63	77	ALA	CA-C-N	5.40	127.95	120.29
1	63	77	ALA	C-N-CA	5.40	127.95	120.29
1	68	149	SER	CA-C-O	5.40	127.16	121.33
1	6c	188	THR	N-CA-C	5.40	116.85	110.97
1	6o	173	ARG	NE-CZ-NH1	-5.40	116.10	121.50
1	6q	226	HIS	O-C-N	-5.40	116.74	122.30
1	6L	36	VAL	N-CA-C	5.40	116.03	110.36
1	79	94	GLY	CA-C-N	5.40	131.85	121.54
1	79	94	GLY	C-N-CA	5.40	131.85	121.54
1	7j	179	GLN	CA-C-N	5.40	127.45	120.44
1	7j	179	GLN	C-N-CA	5.40	127.45	120.44
1	7x	79	GLU	O-C-N	-5.40	116.40	122.12
1	7W	194	ALA	O-C-N	-5.40	116.86	122.96
1	7Z	170	LYS	N-CA-CB	-5.40	101.15	110.32
1	8z	198	CYS	CB-CA-C	5.40	119.35	110.88
1	8N	82	ARG	CA-C-O	-5.40	114.83	120.55
1	8T	76	GLU	N-CA-C	5.40	116.84	111.07
1	94	60	GLY	CA-C-N	5.40	131.99	121.41
1	94	60	GLY	C-N-CA	5.40	131.99	121.41
1	9Z	120	HIS	CG-CD2-NE2	5.40	112.60	107.20
1	ah	191	VAL	CA-C-N	5.40	127.51	120.28
1	ah	191	VAL	C-N-CA	5.40	127.51	120.28
1	aA	12	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	aH	114	GLN	N-CA-C	5.40	116.84	111.07
1	aR	6	LEU	CA-C-O	-5.40	114.29	120.98
1	b7	81	ASP	N-CA-C	5.40	117.16	111.28
1	bi	129	ILE	N-CA-C	5.40	115.60	110.42
1	bq	189	LEU	N-CA-C	5.40	116.84	111.07
1	bw	4	GLN	N-CA-C	5.40	119.15	112.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bB	22	ALA	N-CA-CB	-5.40	101.97	110.06
1	bL	208	ALA	O-C-N	5.40	129.64	122.41
1	bY	191	VAL	CA-CB-CG2	-5.40	101.23	110.40
1	dl	67	GLN	N-CA-C	5.40	116.85	110.97
1	dr	152	ASP	N-CA-C	5.40	117.16	111.28
1	dz	128	GLU	N-CA-C	5.40	117.16	111.28
1	dF	114	GLN	CA-C-N	5.40	127.36	120.56
1	dF	114	GLN	C-N-CA	5.40	127.36	120.56
1	dV	73	ILE	CA-C-N	5.40	127.45	120.44
1	dV	73	ILE	C-N-CA	5.40	127.45	120.44
1	1q	115	ILE	CA-C-N	5.40	126.09	119.99
1	1q	115	ILE	C-N-CA	5.40	126.09	119.99
1	1s	184	TRP	O-C-N	-5.40	116.40	122.12
1	fk	174	ALA	CA-C-N	5.40	127.45	120.44
1	fk	174	ALA	C-N-CA	5.40	127.45	120.44
1	1x	36	VAL	CA-C-N	5.40	125.61	120.43
1	1x	36	VAL	C-N-CA	5.40	125.61	120.43
1	fv	89	GLY	CA-C-N	5.40	125.34	119.78
1	fv	89	GLY	C-N-CA	5.40	125.34	119.78
1	fL	144	MET	N-CA-C	5.40	118.08	111.82
1	fQ	219	GLN	N-CA-C	5.40	118.14	110.10
1	a	87	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
1	D	176	GLN	CA-C-O	5.40	125.60	119.18
1	J	2	ILE	CA-C-O	5.40	126.81	120.71
1	T	161	PHE	CA-C-O	5.40	126.27	120.55
1	gl	80	TRP	CA-CB-CG	5.39	123.85	113.60
1	gl	173	ARG	N-CA-CB	5.39	118.24	110.20
1	gq	215	MET	O-C-N	-5.39	115.35	122.42
1	gr	102	SER	CA-C-N	5.39	127.51	120.28
1	gr	102	SER	C-N-CA	5.39	127.51	120.28
1	gs	52	LEU	N-CA-C	5.39	117.58	111.11
1	gx	218	CYS	CA-C-N	5.39	128.90	120.75
1	gx	218	CYS	C-N-CA	5.39	128.90	120.75
1	1E	172	LEU	N-CA-C	5.39	116.84	111.07
1	1E	179	GLN	CA-C-O	-5.39	115.14	121.07
1	gS	215	MET	CA-C-O	5.39	125.87	119.56
1	hc	220	GLY	CA-C-O	5.39	124.96	118.97
1	ho	134	ILE	CB-CA-C	5.39	118.88	111.97
1	hu	172	LEU	N-CA-C	5.39	117.16	111.28
1	hw	76	GLU	CA-C-O	-5.39	114.80	120.63
1	hw	130	TYR	CA-C-N	5.39	127.51	120.28
1	hw	130	TYR	C-N-CA	5.39	127.51	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	206	GLY	N-CA-C	5.39	123.34	112.34
1	hY	123	PRO	N-CA-CB	-5.39	97.92	103.15
1	ih	38	PRO	O-C-N	-5.39	115.49	122.23
1	1R	34	PRO	N-CA-C	5.39	120.93	113.65
1	iK	199	LYS	N-CA-C	5.39	117.16	111.28
1	1S	200	THR	N-CA-C	-5.39	105.40	111.28
1	iX	213	GLU	O-C-N	-5.39	116.00	122.15
1	iZ	113	GLU	O-C-N	5.39	127.63	122.07
1	j1	201	ILE	CA-C-N	5.39	127.78	120.44
1	j1	201	ILE	C-N-CA	5.39	127.78	120.44
1	j3	199	LYS	CA-C-N	5.39	127.45	120.44
1	j3	199	LYS	C-N-CA	5.39	127.45	120.44
1	ja	28	GLU	O-C-N	-5.39	116.00	122.15
1	jl	38	PRO	O-C-N	-5.39	115.49	122.23
1	jl	92	GLU	CA-C-N	5.39	125.40	119.90
1	jl	92	GLU	C-N-CA	5.39	125.40	119.90
1	1V	204	ALA	N-CA-C	5.39	117.24	111.36
1	js	37	ILE	CA-CB-CG1	-5.39	101.23	110.40
1	jA	100	ARG	CA-C-O	-5.39	115.74	121.94
1	jC	89	GLY	CA-C-O	-5.39	113.81	121.52
1	jI	120	HIS	N-CA-C	5.39	117.29	110.33
1	k1	229	ARG	N-CA-C	5.39	117.69	110.35
1	k8	139	ASN	O-C-N	-5.39	116.40	122.12
1	k8	227	LYS	CA-C-N	5.39	128.90	120.75
1	k8	227	LYS	C-N-CA	5.39	128.90	120.75
1	kA	108	THR	CA-CB-OG1	5.39	117.69	109.60
1	kI	173	ARG	NE-CZ-NH2	-5.39	114.34	119.20
1	kU	53	ASN	CA-CB-CG	-5.39	107.21	112.60
1	25	191	VAL	O-C-N	-5.39	114.43	121.82
1	l3	125	PRO	CA-C-O	5.39	130.42	120.60
1	26	32	PHE	CA-C-N	5.39	128.85	120.60
1	26	32	PHE	C-N-CA	5.39	128.85	120.60
1	l9	155	GLN	O-C-N	-5.39	116.17	122.81
1	lc	178	SER	CA-C-N	5.39	128.05	120.28
1	lc	178	SER	C-N-CA	5.39	128.05	120.28
1	le	84	HIS	CA-CB-CG	5.39	119.19	113.80
1	lk	91	ILE	N-CA-C	-5.39	101.77	108.89
1	lm	92	GLU	N-CA-C	5.39	115.80	109.60
1	lJ	50	GLN	OE1-CD-NE2	5.39	128.00	122.60
1	lK	98	GLU	O-C-N	5.39	127.46	121.53
1	2b	27	VAL	CA-CB-CG1	5.39	119.57	110.40
1	2D	127	GLY	CA-C-N	5.39	127.95	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2D	127	GLY	C-N-CA	5.39	127.95	120.29
1	2D	214	MET	O-C-N	-5.39	116.40	122.12
1	2P	185	MET	CG-SD-CE	-5.39	89.03	100.90
1	2Q	185	MET	N-CA-C	5.39	117.86	111.33
1	35	176	GLN	CA-C-N	5.39	128.75	120.82
1	35	176	GLN	C-N-CA	5.39	128.75	120.82
1	3j	12	HIS	ND1-CE1-NE2	5.39	113.80	108.40
1	3j	52	LEU	CA-C-N	5.39	127.51	120.28
1	3j	52	LEU	C-N-CA	5.39	127.51	120.28
1	3m	100	ARG	NE-CZ-NH2	-5.39	114.34	119.20
1	3t	188	THR	CB-CA-C	-5.39	101.08	110.09
1	3u	18	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	3z	62	HIS	N-CA-C	5.39	118.88	111.54
1	3B	187	GLU	CA-C-N	5.39	127.77	120.38
1	3B	187	GLU	C-N-CA	5.39	127.77	120.38
1	3F	114	GLN	O-C-N	5.39	127.84	122.12
1	3I	95	GLN	CA-C-N	5.39	128.43	120.82
1	3I	95	GLN	C-N-CA	5.39	128.43	120.82
1	3Q	135	ILE	CA-C-N	5.39	127.77	120.38
1	3Q	135	ILE	C-N-CA	5.39	127.77	120.38
1	4j	162	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	4p	11	VAL	N-CA-C	-5.39	100.52	108.23
1	4p	152	ASP	O-C-N	-5.39	115.87	122.34
1	4q	15	ILE	N-CA-C	5.39	116.04	109.30
1	4H	161	PHE	CA-C-O	5.39	126.48	120.82
1	4L	192	GLN	N-CA-CB	-5.39	102.19	110.12
1	4X	51	ASP	O-C-N	-5.39	116.52	122.07
1	5i	150	ILE	CA-C-N	5.39	128.05	120.28
1	5i	150	ILE	C-N-CA	5.39	128.05	120.28
1	5q	147	PRO	CA-C-N	5.39	128.75	120.82
1	5q	147	PRO	C-N-CA	5.39	128.75	120.82
1	5x	10	MET	N-CA-C	5.39	122.29	110.80
1	5H	85	PRO	N-CA-CB	-5.39	98.52	102.35
1	5I	114	GLN	O-C-N	-5.39	116.48	122.09
1	5R	39	MET	O-C-N	-5.39	116.40	122.12
1	61	165	VAL	CA-C-O	-5.39	115.45	121.17
1	6c	134	ILE	CA-C-O	5.39	126.57	120.85
1	6h	1	PRO	CA-N-CD	-5.39	104.45	112.00
1	6y	135	ILE	CB-CA-C	5.39	120.14	111.29
1	6A	13	GLN	CG-CD-NE2	5.39	124.49	116.40
1	6A	67	GLN	CB-CG-CD	5.39	121.77	112.60
1	6H	197	ASP	CA-C-O	5.39	126.48	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6M	164	TYR	N-CA-C	5.39	116.97	111.14
1	6N	64	ALA	N-CA-C	5.39	116.84	111.07
1	6X	133	TRP	O-C-N	5.39	128.53	122.22
1	7c	54	THR	CA-C-N	5.39	127.45	120.44
1	7c	54	THR	C-N-CA	5.39	127.45	120.44
1	7m	141	ILE	CA-C-N	5.39	127.56	120.60
1	7m	141	ILE	C-N-CA	5.39	127.56	120.60
1	7p	92	GLU	N-CA-C	-5.39	101.99	108.25
1	7x	132	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	7z	75	GLU	CB-CG-CD	-5.39	103.43	112.60
1	7E	7	GLN	CB-CG-CD	-5.39	103.43	112.60
1	7I	76	GLU	CA-C-N	5.39	127.78	120.44
1	7I	76	GLU	C-N-CA	5.39	127.78	120.44
1	7Q	90	PRO	O-C-N	-5.39	116.38	122.91
1	7U	162	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	7Z	229	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	8n	175	GLU	O-C-N	-5.39	116.23	122.87
1	8o	128	GLU	O-C-N	5.39	127.92	122.09
1	8I	128	GLU	CA-C-N	5.39	127.36	120.56
1	8I	128	GLU	C-N-CA	5.39	127.36	120.56
1	8Q	76	GLU	CA-C-O	5.39	126.17	119.97
1	8X	186	THR	N-CA-C	5.39	119.58	112.89
1	94	139	ASN	CA-C-N	5.39	127.95	120.29
1	94	139	ASN	C-N-CA	5.39	127.95	120.29
1	96	83	LEU	CA-C-O	5.39	126.14	120.42
1	98	229	ARG	N-CA-CB	-5.39	102.49	110.53
1	9q	156	GLY	O-C-N	-5.39	116.38	121.77
1	9r	195	ASN	CA-C-N	5.39	126.58	119.84
1	9r	195	ASN	C-N-CA	5.39	126.58	119.84
1	9N	77	ALA	N-CA-C	5.39	117.16	111.28
1	9P	100	ARG	CA-C-N	5.39	125.93	120.00
1	9P	100	ARG	C-N-CA	5.39	125.93	120.00
1	a1	24	VAL	CA-C-N	5.39	127.95	120.29
1	a1	24	VAL	C-N-CA	5.39	127.95	120.29
1	a1	203	LYS	CB-CA-C	5.39	119.35	110.88
1	a9	86	VAL	N-CA-CB	-5.39	105.69	111.46
1	10	31	ALA	N-CA-C	5.39	122.29	110.80
1	aa	72	THR	CA-CB-CG2	5.39	119.67	110.50
1	ac	65	ALA	N-CA-CB	-5.39	102.19	110.12
1	as	132	ARG	CD-NE-CZ	5.39	131.95	124.40
1	av	193	ASN	CA-C-N	5.39	129.99	120.87
1	av	193	ASN	C-N-CA	5.39	129.99	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	37	ILE	N-CA-CB	-5.39	106.24	110.45
1	aD	184	TRP	NE1-CE2-CD2	-5.39	100.39	107.40
1	aD	193	ASN	CA-CB-CG	5.39	118.00	112.60
1	aH	5	ASN	O-C-N	-5.39	117.00	123.31
1	aL	12	HIS	CA-CB-CG	-5.39	108.41	113.80
1	aL	48	THR	O-C-N	-5.39	115.49	121.53
1	aL	117	TRP	CB-CG-CD2	-5.39	119.25	126.80
1	aM	82	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	aQ	155	GLN	N-CA-CB	-5.39	100.75	109.60
1	aR	226	HIS	CA-CB-CG	-5.39	108.41	113.80
1	aX	97	ARG	CA-C-O	-5.39	115.68	121.56
1	bd	22	ALA	CA-C-O	5.39	126.67	120.90
1	bf	75	GLU	O-C-N	-5.39	116.40	122.12
1	bl	222	GLY	O-C-N	5.39	127.89	122.77
1	bq	124	ILE	CA-C-N	5.39	126.58	119.84
1	bq	124	ILE	C-N-CA	5.39	126.58	119.84
1	bs	166	ASP	CB-CA-C	5.39	119.44	110.81
1	bF	231	LEU	CB-CA-C	5.39	120.35	110.10
1	bP	82	ARG	CA-C-O	5.39	126.48	120.82
1	bS	154	ARG	CA-CB-CG	5.39	124.89	114.10
1	c4	6	LEU	CA-C-N	5.39	128.37	120.71
1	c4	6	LEU	C-N-CA	5.39	128.37	120.71
1	1d	218	CYS	N-CA-C	5.39	119.16	112.58
1	cm	226	HIS	N-CA-C	5.39	118.08	111.82
1	1e	75	GLU	CA-C-O	-5.39	115.13	120.90
1	cs	183	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	cx	86	VAL	CA-CB-CG1	5.39	119.57	110.40
1	1h	195	ASN	CA-C-O	-5.39	114.59	120.69
1	d7	158	LYS	N-CA-C	-5.39	102.15	109.54
1	1j	70	LYS	N-CA-C	5.39	117.16	111.28
1	dg	19	THR	N-CA-CB	5.39	118.14	110.16
1	dl	173	ARG	CD-NE-CZ	-5.39	116.85	124.40
1	dp	219	GLN	N-CA-C	5.39	122.29	110.80
1	dr	146	SER	CA-C-O	-5.39	115.33	119.32
1	dx	53	ASN	CA-C-N	5.39	127.45	120.44
1	dx	53	ASN	C-N-CA	5.39	127.45	120.44
1	dy	115	ILE	N-CA-C	-5.39	104.31	111.05
1	dC	135	ILE	CA-C-N	5.39	127.51	120.28
1	dC	135	ILE	C-N-CA	5.39	127.51	120.28
1	dT	172	LEU	CA-C-O	5.39	126.17	119.97
1	ej	170	LYS	N-CA-C	5.39	117.16	111.28
1	en	68	MET	CA-C-N	5.39	127.51	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	en	68	MET	C-N-CA	5.39	127.51	120.28
1	1r	136	LEU	CA-C-O	-5.39	114.83	120.55
1	ew	139	ASN	CA-C-N	5.39	128.05	120.28
1	ew	139	ASN	C-N-CA	5.39	128.05	120.28
1	eP	167	ARG	CA-C-N	5.39	127.45	120.44
1	eP	167	ARG	C-N-CA	5.39	127.45	120.44
1	eY	93	PRO	O-C-N	5.39	129.56	123.03
1	f4	32	PHE	CA-C-N	5.39	129.88	122.06
1	f4	32	PHE	C-N-CA	5.39	129.88	122.06
1	f6	195	ASN	CA-C-N	-5.39	114.21	120.04
1	f6	195	ASN	C-N-CA	-5.39	114.21	120.04
1	f9	121	ASN	CB-CA-C	5.39	117.68	110.13
1	fa	127	GLY	O-C-N	-5.39	117.00	122.18
1	fg	203	LYS	N-CA-C	5.39	118.96	112.38
1	fh	183	ASN	N-CA-C	5.39	116.84	111.07
1	fm	50	GLN	CB-CG-CD	5.39	121.77	112.60
1	fq	15	ILE	N-CA-C	5.39	116.65	109.37
1	fu	214	MET	CA-C-N	5.39	128.05	120.28
1	fu	214	MET	C-N-CA	5.39	128.05	120.28
1	fB	199	LYS	CA-C-O	5.39	126.17	119.97
1	fL	212	GLU	O-C-N	-5.39	116.40	122.12
1	1z	78	ALA	N-CA-C	5.39	117.24	111.36
1	fY	137	GLY	N-CA-C	-5.39	105.86	112.77
1	g4	210	THR	CA-CB-OG1	5.39	117.69	109.60
1	g7	63	GLN	CB-CG-CD	-5.39	103.43	112.60
1	o	51	ASP	CA-C-N	5.39	127.51	120.28
1	o	51	ASP	C-N-CA	5.39	127.51	120.28
1	J	138	LEU	N-CA-CB	5.39	117.83	110.01
1	K	42	ALA	O-C-N	-5.39	116.40	122.12
1	S	33	SER	O-C-N	-5.39	115.51	121.66
1	gb	74	ASN	CA-C-O	5.39	126.14	120.42
1	gF	92	GLU	CA-CB-CG	-5.39	103.31	114.10
1	gM	197	ASP	N-CA-C	5.39	116.84	111.07
1	gN	21	ASN	N-CA-C	5.39	117.58	111.11
1	gR	61	GLY	CA-C-N	5.39	130.06	122.46
1	gR	61	GLY	C-N-CA	5.39	130.06	122.46
1	gZ	181	VAL	O-C-N	-5.39	116.62	121.91
1	h0	158	LYS	N-CA-C	-5.39	106.75	113.55
1	h5	132	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	hc	24	VAL	CA-C-N	5.39	127.95	120.29
1	hc	24	VAL	C-N-CA	5.39	127.95	120.29
1	1I	202	LEU	O-C-N	-5.39	115.64	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hg	202	LEU	N-CA-CB	5.39	118.05	110.12
1	hw	67	GLN	CA-C-O	5.39	126.27	120.55
1	hw	112	GLN	N-CA-C	5.39	117.16	111.28
1	hB	179	GLN	N-CA-CB	5.39	118.64	110.28
1	1L	173	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	hK	89	GLY	CA-C-N	5.39	126.23	119.98
1	hK	89	GLY	C-N-CA	5.39	126.23	119.98
1	i3	125	PRO	CA-C-N	5.39	129.46	120.62
1	i3	125	PRO	C-N-CA	5.39	129.46	120.62
1	i3	201	ILE	CA-C-O	-5.39	115.45	121.17
1	ia	140	LYS	N-CA-C	5.39	117.16	111.28
1	ie	73	ILE	N-CA-C	5.39	115.60	110.42
1	ih	217	ALA	CA-C-O	-5.39	114.89	121.36
1	ii	165	VAL	CA-CB-CG2	-5.39	101.23	110.40
1	ik	107	THR	N-CA-CB	5.39	117.83	110.01
1	iu	219	GLN	CA-C-N	5.39	126.92	120.13
1	iu	219	GLN	C-N-CA	5.39	126.92	120.13
1	iC	39	MET	CA-C-O	5.39	126.27	120.55
1	iO	179	GLN	N-CA-C	5.39	117.58	111.11
1	iP	100	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	1S	23	TRP	O-C-N	-5.39	116.48	122.09
1	1S	77	ALA	N-CA-C	5.39	117.16	111.28
1	iZ	50	GLN	N-CA-C	5.39	117.58	111.11
1	1T	162	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	j2	22	ALA	N-CA-CB	-5.39	102.19	110.12
1	j4	184	TRP	CB-CG-CD1	-5.39	118.81	126.90
1	j4	192	GLN	N-CA-C	5.39	117.24	111.36
1	j7	5	ASN	CA-CB-CG	-5.39	107.21	112.60
1	j7	227	LYS	N-CA-C	5.39	118.00	109.96
1	jd	15	ILE	N-CA-C	5.39	115.96	108.84
1	jp	84	HIS	CE1-NE2-CD2	-5.39	103.61	109.00
1	jv	49	PRO	CA-C-N	5.39	127.45	120.44
1	jv	49	PRO	C-N-CA	5.39	127.45	120.44
1	jB	181	VAL	O-C-N	-5.39	116.64	121.87
1	jH	18	ARG	CG-CD-NE	-5.39	100.14	112.00
1	jR	59	VAL	CA-CB-CG2	-5.39	101.23	110.40
1	jZ	132	ARG	CA-C-N	5.39	127.95	120.29
1	jZ	132	ARG	C-N-CA	5.39	127.95	120.29
1	jZ	197	ASP	CA-CB-CG	5.39	117.99	112.60
1	k4	11	VAL	CA-CB-CG1	5.39	119.57	110.40
1	k7	184	TRP	O-C-N	-5.39	116.52	122.07
1	20	71	GLU	O-C-N	-5.39	116.40	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	20	169	TYR	N-CA-C	5.39	117.16	111.28
1	ko	159	GLU	N-CA-C	5.39	116.68	109.83
1	ko	197	ASP	CA-C-N	5.39	127.78	120.44
1	ko	197	ASP	C-N-CA	5.39	127.78	120.44
1	kK	110	THR	CA-CB-OG1	-5.39	101.51	109.60
1	kV	226	HIS	CE1-NE2-CD2	-5.39	103.61	109.00
1	lk	5	ASN	CA-CB-CG	-5.39	107.21	112.60
1	lx	136	LEU	N-CA-CB	5.39	118.05	110.12
1	lz	48	THR	CA-C-N	5.39	126.58	119.84
1	lz	48	THR	C-N-CA	5.39	126.58	119.84
1	lA	132	ARG	N-CA-C	5.39	117.58	111.11
1	lB	126	VAL	CA-CB-CG2	5.39	119.57	110.40
1	2c	66	MET	N-CA-C	5.39	117.91	111.71
1	2t	54	THR	CA-C-N	5.39	127.45	120.44
1	2t	54	THR	C-N-CA	5.39	127.45	120.44
1	2z	227	LYS	N-CA-CB	-5.39	102.19	110.12
1	2C	6	LEU	CA-C-N	5.39	132.14	122.38
1	2C	6	LEU	C-N-CA	5.39	132.14	122.38
1	31	68	MET	CA-C-N	5.39	127.82	120.54
1	31	68	MET	C-N-CA	5.39	127.82	120.54
1	35	210	THR	CA-C-N	5.39	127.50	120.28
1	35	210	THR	C-N-CA	5.39	127.50	120.28
1	3d	152	ASP	N-CA-CB	-5.39	102.50	110.53
1	3j	96	MET	CG-SD-CE	-5.39	89.04	100.90
1	3n	112	GLN	N-CA-CB	-5.39	102.19	110.12
1	3t	226	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	3u	13	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	3y	203	LYS	O-C-N	-5.39	116.52	122.07
1	3H	155	GLN	OE1-CD-NE2	5.39	127.99	122.60
1	3N	155	GLN	N-CA-CB	5.39	121.18	111.37
1	3O	77	ALA	CA-C-N	5.39	127.51	120.28
1	3O	77	ALA	C-N-CA	5.39	127.51	120.28
1	3S	84	HIS	CA-CB-CG	-5.39	108.41	113.80
1	3Z	26	VAL	N-CA-C	5.39	116.12	110.62
1	3Z	94	GLY	CA-C-N	5.39	130.75	122.93
1	3Z	94	GLY	C-N-CA	5.39	130.75	122.93
1	44	142	VAL	CA-C-O	5.39	126.89	121.17
1	4n	11	VAL	CA-C-N	5.39	131.87	122.81
1	4n	11	VAL	C-N-CA	5.39	131.87	122.81
1	4p	144	MET	CG-SD-CE	-5.39	89.04	100.90
1	4A	33	SER	CA-CB-OG	5.39	121.89	111.10
1	4J	163	ASP	CA-CB-CG	5.39	117.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4J	193	ASN	CA-C-N	5.39	129.84	121.26
1	4J	193	ASN	C-N-CA	5.39	129.84	121.26
1	4O	195	ASN	CA-C-N	5.39	125.47	119.32
1	4O	195	ASN	C-N-CA	5.39	125.47	119.32
1	51	80	TRP	CD2-CE2-CZ2	-5.39	117.01	122.40
1	54	77	ALA	N-CA-CB	5.39	117.89	110.07
1	56	2	ILE	N-CA-C	5.39	116.52	108.54
1	56	91	ILE	N-CA-C	5.39	116.13	108.42
1	5D	126	VAL	O-C-N	-5.39	116.64	121.87
1	5O	164	TYR	CA-C-N	5.39	127.85	120.46
1	5O	164	TYR	C-N-CA	5.39	127.85	120.46
1	5Q	12	HIS	CB-CG-ND1	5.39	130.79	122.70
1	5S	3	VAL	N-CA-CB	5.39	122.26	111.91
1	6C	103	ASP	CA-C-N	5.39	129.14	120.30
1	6C	103	ASP	C-N-CA	5.39	129.14	120.30
1	6E	118	MET	CG-SD-CE	5.39	112.76	100.90
1	6N	193	ASN	CA-C-O	-5.39	112.76	119.18
1	6P	121	ASN	CA-C-O	-5.39	112.98	119.67
1	6V	91	ILE	CA-CB-CG2	-5.39	101.33	110.50
1	6X	143	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	73	209	ALA	O-C-N	-5.39	116.39	122.97
1	76	133	TRP	CB-CG-CD2	5.39	134.35	126.80
1	79	187	GLU	N-CA-C	5.39	116.84	111.07
1	7e	175	GLU	CA-CB-CG	5.39	124.89	114.10
1	7g	8	GLY	CA-C-O	5.39	128.13	121.55
1	7h	187	GLU	N-CA-C	5.39	117.60	111.02
1	7i	179	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	7k	77	ALA	CA-C-O	5.39	126.45	120.63
1	84	108	THR	N-CA-C	-5.39	105.37	113.89
1	8b	181	VAL	N-CA-CB	5.39	116.86	110.55
1	8j	167	ARG	CA-C-O	5.39	126.48	120.82
1	8l	152	ASP	N-CA-CB	5.39	118.00	110.56
1	8o	37	ILE	N-CA-CB	5.39	114.66	110.45
1	8o	82	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	8w	160	PRO	O-C-N	-5.39	116.14	122.99
1	8A	122	PRO	CA-C-N	5.39	125.40	119.90
1	8A	122	PRO	C-N-CA	5.39	125.40	119.90
1	8H	185	MET	CA-C-O	5.39	126.27	120.55
1	8J	214	MET	CA-C-N	5.39	127.95	120.29
1	8J	214	MET	C-N-CA	5.39	127.95	120.29
1	8K	154	ARG	N-CA-CB	5.39	119.37	110.69
1	92	25	LYS	CA-C-O	5.39	126.27	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	93	62	HIS	CB-CG-ND1	-5.39	114.61	122.70
1	96	16	SER	N-CA-C	5.39	116.68	109.83
1	98	50	GLN	CA-C-N	5.39	127.45	120.44
1	98	50	GLN	C-N-CA	5.39	127.45	120.44
1	9s	12	HIS	CE1-NE2-CD2	-5.39	103.61	109.00
1	9x	15	ILE	N-CA-C	5.39	120.56	109.34
1	9I	183	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	9T	119	THR	OG1-CB-CG2	-5.39	98.51	109.30
1	9Y	4	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	a2	37	ILE	N-CA-C	5.39	120.53	108.88
1	a2	76	GLU	CA-C-O	5.39	126.27	120.55
1	a3	54	THR	O-C-N	-5.39	116.52	122.07
1	ab	167	ARG	N-CA-C	5.39	117.24	111.36
1	ac	130	TYR	CA-C-N	5.39	127.51	120.28
1	ac	130	TYR	C-N-CA	5.39	127.51	120.28
1	ah	140	LYS	O-C-N	-5.39	116.41	122.12
1	aw	129	ILE	O-C-N	-5.39	116.64	121.87
1	13	53	ASN	CA-C-N	5.39	127.45	120.44
1	13	53	ASN	C-N-CA	5.39	127.45	120.44
1	13	99	PRO	N-CA-CB	5.39	108.12	103.27
1	aF	20	LEU	CA-C-O	-5.39	115.13	120.90
1	aH	66	MET	CG-SD-CE	-5.39	89.04	100.90
1	aH	91	ILE	CB-CA-C	-5.39	104.78	112.22
1	aH	154	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	aQ	150	ILE	CA-C-N	5.39	128.05	120.28
1	aQ	150	ILE	C-N-CA	5.39	128.05	120.28
1	b8	162	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	bw	119	THR	CA-C-O	5.39	125.80	119.28
1	bR	136	LEU	CA-C-N	5.39	125.97	119.98
1	bR	136	LEU	C-N-CA	5.39	125.97	119.98
1	1b	67	GLN	CG-CD-NE2	-5.39	108.31	116.40
1	bW	19	THR	CA-C-O	5.39	126.14	120.42
1	bY	134	ILE	CA-C-N	5.39	127.35	120.56
1	bY	134	ILE	C-N-CA	5.39	127.35	120.56
1	c4	195	ASN	CA-C-N	5.39	126.58	119.84
1	c4	195	ASN	C-N-CA	5.39	126.58	119.84
1	1d	80	TRP	CD2-CE2-CZ2	-5.39	117.01	122.40
1	co	22	ALA	CA-C-N	5.39	127.45	120.44
1	co	22	ALA	C-N-CA	5.39	127.45	120.44
1	ct	23	TRP	CB-CG-CD2	5.39	134.35	126.80
1	cA	179	GLN	CA-C-O	5.39	126.27	120.55
1	cM	176	GLN	N-CA-C	5.39	119.49	113.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d3	113	GLU	N-CA-C	5.39	116.84	111.07
1	d3	113	GLU	N-CA-CB	5.39	117.83	110.01
1	d8	214	MET	CG-SD-CE	-5.39	89.03	100.90
1	dj	199	LYS	CA-C-N	5.39	127.77	120.44
1	dj	199	LYS	C-N-CA	5.39	127.77	120.44
1	dx	173	ARG	CA-C-N	5.39	127.95	120.29
1	dx	173	ARG	C-N-CA	5.39	127.95	120.29
1	dJ	41	SER	N-CA-C	5.39	117.58	111.11
1	dJ	166	ASP	CA-CB-CG	5.39	117.99	112.60
1	dU	132	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	dX	115	ILE	CA-CB-CG2	5.39	119.67	110.50
1	dZ	120	HIS	CA-CB-CG	5.39	119.19	113.80
1	e7	66	MET	CG-SD-CE	-5.39	89.04	100.90
1	ec	39	MET	N-CA-C	5.39	116.84	111.07
1	ek	176	GLN	CA-C-O	5.39	125.84	119.48
1	ew	179	GLN	CA-C-O	-5.39	115.16	120.82
1	ez	87	HIS	N-CA-C	5.39	117.18	108.34
1	eE	62	HIS	N-CA-C	5.39	119.07	111.52
1	eT	57	ASN	CA-C-N	5.39	129.76	121.19
1	eT	57	ASN	C-N-CA	5.39	129.76	121.19
1	eW	172	LEU	CA-C-O	5.39	126.17	119.97
1	f2	12	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	1v	207	PRO	CA-C-O	5.39	125.07	118.92
1	fa	57	ASN	CA-C-O	5.39	126.01	119.38
1	fo	76	GLU	O-C-N	-5.39	116.52	122.07
1	fr	87	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	ft	102	SER	CA-C-N	5.39	127.77	120.44
1	ft	102	SER	C-N-CA	5.39	127.77	120.44
1	1x	78	ALA	CA-C-O	5.39	126.17	119.97
1	fw	187	GLU	CB-CG-CD	5.39	121.77	112.60
1	fx	5	ASN	CB-CA-C	-5.39	101.38	110.44
1	fL	125	PRO	CA-C-N	5.39	127.35	120.56
1	fL	125	PRO	C-N-CA	5.39	127.35	120.56
1	fO	198	CYS	N-CA-C	5.39	117.16	111.28
1	fY	85	PRO	N-CA-C	5.39	119.95	111.38
1	g1	132	ARG	N-CA-CB	-5.39	101.92	110.22
1	g6	163	ASP	CA-C-N	5.39	127.51	120.28
1	g6	163	ASP	C-N-CA	5.39	127.51	120.28
1	g7	118	MET	CG-SD-CE	-5.39	89.03	100.90
1	g	163	ASP	CA-C-O	5.39	126.14	120.42
1	i	183	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	1	29	GLU	CA-C-O	5.39	125.33	119.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	r	179	GLN	N-CA-C	5.39	116.84	111.07
1	v	85	PRO	CB-CA-C	-5.39	104.24	112.11
1	x	180	GLU	O-C-N	-5.39	116.40	122.12
1	B	172	LEU	N-CA-C	5.39	117.91	111.71
1	M	12	HIS	CA-CB-CG	-5.39	108.41	113.80
1	4	98	GLU	N-CA-C	5.39	117.37	109.71
1	X	183	ASN	O-C-N	-5.39	116.41	122.12
1	8	72	THR	N-CA-C	5.39	117.58	111.11
1	ga	78	ALA	O-C-N	-5.39	116.52	122.07
1	ge	12	HIS	CB-CG-ND1	5.39	130.79	122.70
1	gA	183	ASN	CA-C-N	5.39	127.50	120.28
1	gA	183	ASN	C-N-CA	5.39	127.50	120.28
1	gN	2	ILE	O-C-N	-5.39	117.36	123.18
1	gN	104	ILE	N-CA-C	5.39	116.12	110.62
1	1I	184	TRP	CA-C-O	-5.39	114.84	120.55
1	hg	143	ARG	CA-C-N	5.39	127.82	120.54
1	hg	143	ARG	C-N-CA	5.39	127.82	120.54
1	hm	226	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	hq	171	THR	CA-C-N	5.39	127.94	120.29
1	hq	171	THR	C-N-CA	5.39	127.94	120.29
1	hR	12	HIS	CG-CD2-NE2	5.39	112.59	107.20
1	ix	134	ILE	CA-C-N	5.39	127.84	120.46
1	ix	134	ILE	C-N-CA	5.39	127.84	120.46
1	iX	72	THR	CA-C-O	-5.39	114.84	120.55
1	1T	78	ALA	CA-C-N	5.39	127.82	120.54
1	1T	78	ALA	C-N-CA	5.39	127.82	120.54
1	j7	221	VAL	CA-CB-CG2	-5.39	101.24	110.40
1	jd	13	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	jo	103	ASP	O-C-N	5.39	127.62	122.07
1	jB	213	GLU	CA-C-O	5.39	126.26	120.55
1	jK	54	THR	N-CA-C	5.39	117.16	111.28
1	jO	100	ARG	CG-CD-NE	-5.39	100.14	112.00
1	jO	224	PRO	CB-CA-C	5.39	120.45	111.56
1	jT	85	PRO	N-CA-C	5.39	118.96	110.50
1	ka	23	TRP	N-CA-C	5.39	117.24	111.36
1	kf	5	ASN	CA-C-N	5.39	129.79	122.19
1	kf	5	ASN	C-N-CA	5.39	129.79	122.19
1	kA	164	TYR	CA-C-O	-5.39	115.15	120.70
1	kB	229	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	kP	74	ASN	CA-CB-CG	-5.39	107.21	112.60
1	kS	51	ASP	CA-C-O	5.39	126.26	120.55
1	l8	53	ASN	CA-C-N	5.39	128.50	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	53	ASN	C-N-CA	5.39	128.50	120.31
1	lj	205	LEU	CA-C-N	5.39	130.33	121.87
1	lj	205	LEU	C-N-CA	5.39	130.33	121.87
1	ln	159	GLU	CA-C-O	5.39	126.51	120.04
1	lx	39	MET	CG-SD-CE	-5.39	89.04	100.90
1	2R	79	GLU	N-CA-C	5.39	116.84	111.07
1	33	62	HIS	ND1-CG-CD2	5.39	111.49	106.10
1	3m	23	TRP	N-CA-C	5.39	117.16	111.28
1	3r	169	TYR	N-CA-C	5.39	119.12	112.54
1	3t	62	HIS	CB-CG-CD2	-5.39	124.19	131.20
1	3L	18	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	3M	20	LEU	CA-C-O	5.39	126.48	120.82
1	3T	212	GLU	N-CA-C	5.39	117.58	111.11
1	3V	34	PRO	CA-C-N	5.39	129.72	120.72
1	3V	34	PRO	C-N-CA	5.39	129.72	120.72
1	3Z	95	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	4s	37	ILE	CA-C-N	5.39	125.06	119.56
1	4s	37	ILE	C-N-CA	5.39	125.06	119.56
1	4V	200	THR	N-CA-C	-5.39	105.06	111.69
1	52	169	TYR	N-CA-C	5.39	117.91	111.71
1	5e	104	ILE	CA-C-O	5.39	126.56	120.95
1	5l	218	CYS	O-C-N	-5.39	115.35	122.47
1	5F	184	TRP	N-CA-CB	5.39	118.05	110.12
1	5L	50	GLN	CB-CA-C	-5.39	101.69	110.85
1	5Q	34	PRO	N-CA-C	5.39	120.85	113.84
1	5T	138	LEU	CA-C-N	5.39	127.82	120.54
1	5T	138	LEU	C-N-CA	5.39	127.82	120.54
1	5W	221	VAL	O-C-N	-5.39	116.98	122.75
1	65	122	PRO	CA-C-N	5.39	125.33	119.78
1	65	122	PRO	C-N-CA	5.39	125.33	119.78
1	65	145	TYR	CA-C-O	5.39	128.22	120.51
1	6a	224	PRO	CA-C-N	5.39	131.98	121.41
1	6a	224	PRO	C-N-CA	5.39	131.98	121.41
1	6u	62	HIS	O-C-N	-5.39	116.50	122.91
1	75	159	GLU	CA-C-N	5.39	126.58	119.84
1	75	159	GLU	C-N-CA	5.39	126.58	119.84
1	7e	6	LEU	N-CA-C	-5.39	99.32	110.80
1	7g	133	TRP	N-CA-C	5.39	116.84	111.07
1	7i	130	TYR	O-C-N	-5.39	116.41	122.12
1	7j	133	TRP	N-CA-C	5.39	117.16	111.28
1	7x	155	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	89	11	VAL	CA-C-N	5.39	128.53	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	11	VAL	C-N-CA	5.39	128.53	120.87
1	8V	125	PRO	CA-C-N	5.39	127.85	120.46
1	8V	125	PRO	C-N-CA	5.39	127.85	120.46
1	8Y	197	ASP	CA-C-N	5.39	127.77	120.44
1	8Y	197	ASP	C-N-CA	5.39	127.77	120.44
1	9d	226	HIS	CG-CD2-NE2	5.39	112.59	107.20
1	9q	65	ALA	CB-CA-C	5.39	119.74	110.79
1	9s	227	LYS	N-CA-C	5.39	118.10	110.50
1	9O	62	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	9S	97	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	a3	207	PRO	CA-C-N	5.39	130.65	122.08
1	a3	207	PRO	C-N-CA	5.39	130.65	122.08
1	10	14	ALA	N-CA-C	5.39	117.48	110.53
1	am	201	ILE	N-CA-CB	5.39	116.86	110.55
1	aQ	29	GLU	N-CA-C	5.39	117.24	111.36
1	b6	107	THR	CA-C-O	5.39	126.30	119.78
1	bm	72	THR	O-C-N	-5.39	116.00	122.15
1	bn	102	SER	CA-C-O	5.39	126.00	119.31
1	bq	117	TRP	CA-C-N	5.39	127.94	120.29
1	bq	117	TRP	C-N-CA	5.39	127.94	120.29
1	bE	95	GLN	N-CA-C	-5.39	100.91	109.59
1	bF	48	THR	CA-CB-OG1	5.39	117.69	109.60
1	bS	97	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	bW	112	GLN	N-CA-C	5.39	116.84	111.07
1	c7	215	MET	CA-C-O	-5.39	114.01	120.10
1	co	88	ALA	CA-C-N	5.39	130.33	121.87
1	co	88	ALA	C-N-CA	5.39	130.33	121.87
1	cH	56	LEU	N-CA-C	5.39	117.91	111.71
1	cK	192	GLN	N-CA-C	5.39	117.24	111.36
1	cM	39	MET	N-CA-C	5.39	118.07	111.82
1	cN	104	ILE	CA-C-O	5.39	127.03	121.05
1	cV	50	GLN	N-CA-C	5.39	117.16	111.28
1	dg	14	ALA	N-CA-C	5.39	118.05	110.23
1	dW	221	VAL	N-CA-C	5.39	116.65	109.37
1	ek	144	MET	O-C-N	5.39	127.83	122.12
1	1q	198	CYS	N-CA-C	-5.39	105.48	111.36
1	1r	81	ASP	N-CA-C	5.39	116.96	111.14
1	eB	165	VAL	N-CA-C	5.39	116.17	110.72
1	eK	154	ARG	CA-C-N	5.39	129.21	121.50
1	eK	154	ARG	C-N-CA	5.39	129.21	121.50
1	fg	23	TRP	CG-CD1-NE1	-5.39	103.19	110.20
1	fw	147	PRO	CB-CA-C	5.39	118.41	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fW	192	GLN	CG-CD-OE1	5.39	131.58	120.80
1	g1	174	ALA	CA-C-O	-5.39	114.83	120.55
1	b	79	GLU	O-C-N	-5.39	116.52	122.07
1	2	133	TRP	CB-CG-CD2	-5.39	119.25	126.80
1	P	146	SER	N-CA-C	5.39	116.20	109.57
1	ge	89	GLY	CA-C-N	5.39	125.33	119.78
1	ge	89	GLY	C-N-CA	5.39	125.33	119.78
1	gj	51	ASP	CA-C-O	-5.39	114.84	120.55
1	gt	162	ARG	N-CA-C	5.39	117.91	111.71
1	gw	121	ASN	CB-CG-ND2	5.39	124.48	116.40
1	gE	82	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	gH	165	VAL	O-C-N	-5.39	114.99	122.05
1	gH	216	THR	O-C-N	-5.39	116.52	122.07
1	gQ	59	VAL	CA-C-O	5.39	126.48	120.71
1	gQ	130	TYR	N-CA-C	5.39	117.16	111.28
1	gR	73	ILE	CA-C-N	5.39	127.94	120.29
1	gR	73	ILE	C-N-CA	5.39	127.94	120.29
1	he	27	VAL	O-C-N	-5.39	116.14	121.96
1	1K	144	MET	CB-CA-C	-5.39	101.84	110.79
1	hA	108	THR	CA-C-O	5.39	125.66	119.35
1	hC	124	ILE	N-CA-C	5.39	113.20	107.76
1	hE	57	ASN	CA-C-O	5.39	125.95	119.43
1	hH	211	LEU	O-C-N	-5.39	115.91	122.22
1	hQ	133	TRP	CE2-CD2-CE3	5.39	124.19	118.80
1	hR	19	THR	O-C-N	-5.39	116.41	122.12
1	hW	118	MET	CA-C-O	5.39	125.87	119.56
1	i5	175	GLU	CA-C-O	5.39	127.08	121.15
1	i8	86	VAL	CA-C-N	5.39	130.37	122.77
1	i8	86	VAL	C-N-CA	5.39	130.37	122.77
1	ia	58	THR	N-CA-C	-5.39	106.21	112.89
1	ih	75	GLU	O-C-N	-5.39	116.41	122.12
1	ii	84	HIS	N-CA-C	5.39	116.46	109.72
1	ij	197	ASP	N-CA-C	-5.39	105.32	111.14
1	ik	92	GLU	N-CA-C	5.39	117.33	109.84
1	iM	213	GLU	N-CA-CB	5.39	117.82	110.01
1	iS	143	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	iW	46	GLY	O-C-N	5.39	128.64	122.23
1	iX	15	ILE	O-C-N	-5.39	116.98	122.75
1	j5	115	ILE	O-C-N	-5.39	116.64	121.87
1	jb	166	ASP	CB-CA-C	-5.39	102.42	110.88
1	jo	47	ALA	O-C-N	-5.39	117.02	123.06
1	jp	95	GLN	CA-C-N	5.39	129.34	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jp	95	GLN	C-N-CA	5.39	129.34	121.31
1	jE	11	VAL	O-C-N	-5.39	116.86	123.00
1	1X	96	MET	O-C-N	5.39	130.46	122.97
1	jI	130	TYR	N-CA-C	-5.39	105.48	111.36
1	jI	197	ASP	CA-C-N	5.39	127.50	120.28
1	jI	197	ASP	C-N-CA	5.39	127.50	120.28
1	jU	98	GLU	O-C-N	-5.39	117.27	121.47
1	ke	140	LYS	CB-CA-C	5.39	119.34	110.88
1	kn	13	GLN	N-CA-C	-5.39	99.15	108.69
1	kp	68	MET	CA-C-O	5.39	126.19	120.10
1	22	80	TRP	N-CA-CB	-5.39	102.20	110.12
1	kx	105	ALA	N-CA-C	-5.39	106.48	113.16
1	kM	104	ILE	CA-CB-CG2	-5.39	101.34	110.50
1	kR	135	ILE	O-C-N	-5.39	116.64	121.87
1	kT	191	VAL	N-CA-CB	-5.39	103.67	110.57
1	kV	86	VAL	CA-C-O	5.39	127.29	121.36
1	lj	33	SER	N-CA-C	-5.39	99.71	108.82
1	lm	10	MET	N-CA-C	5.39	119.11	112.54
1	lE	35	GLU	CA-C-N	5.39	127.84	120.46
1	lE	35	GLU	C-N-CA	5.39	127.84	120.46
1	lK	11	VAL	CA-C-N	5.39	129.79	122.19
1	lK	11	VAL	C-N-CA	5.39	129.79	122.19
1	2b	76	GLU	CA-C-O	5.39	126.26	120.55
1	2g	54	THR	O-C-N	-5.39	116.41	122.12
1	2g	110	THR	O-C-N	-5.39	116.31	122.89
1	2g	192	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	2i	177	ALA	CA-C-N	5.39	131.83	121.54
1	2i	177	ALA	C-N-CA	5.39	131.83	121.54
1	2m	62	HIS	CG-CD2-NE2	-5.39	101.81	107.20
1	2B	196	PRO	N-CA-C	5.39	123.57	112.47
1	2C	126	VAL	CA-C-N	5.39	126.08	119.99
1	2C	126	VAL	C-N-CA	5.39	126.08	119.99
1	2E	22	ALA	CA-C-N	5.39	127.45	120.44
1	2E	22	ALA	C-N-CA	5.39	127.45	120.44
1	2S	82	ARG	CA-C-N	5.39	127.76	120.38
1	2S	82	ARG	C-N-CA	5.39	127.76	120.38
1	2T	199	LYS	N-CA-CB	5.39	118.04	110.12
1	2V	135	ILE	CA-C-N	5.39	127.45	120.44
1	2V	135	ILE	C-N-CA	5.39	127.45	120.44
1	3d	97	ARG	CA-C-O	-5.39	115.62	121.44
1	3m	80	TRP	CB-CG-CD1	5.39	134.98	126.90
1	3w	101	GLY	N-CA-C	5.39	119.20	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3S	113	GLU	N-CA-C	5.39	117.16	111.28
1	43	172	LEU	CD1-CG-CD2	-5.39	98.94	110.80
1	4a	97	ARG	CA-C-N	5.39	129.90	121.17
1	4a	97	ARG	C-N-CA	5.39	129.90	121.17
1	4b	41	SER	CA-C-O	-5.39	114.84	120.55
1	4c	30	LYS	CG-CD-CE	5.39	123.70	111.30
1	4i	17	PRO	N-CA-C	5.39	123.57	112.47
1	4j	68	MET	O-C-N	-5.39	116.41	122.12
1	4v	151	LEU	O-C-N	5.39	127.83	122.12
1	4B	45	GLU	O-C-N	-5.39	115.50	122.77
1	4E	193	ASN	N-CA-CB	-5.39	101.36	110.41
1	4G	85	PRO	N-CA-C	5.39	119.78	111.21
1	58	226	HIS	N-CA-C	5.39	117.23	111.36
1	5e	19	THR	N-CA-CB	5.39	118.14	110.16
1	5g	212	GLU	CA-C-O	5.39	126.48	120.82
1	5z	119	THR	CA-CB-CG2	-5.39	101.34	110.50
1	5I	82	ARG	O-C-N	-5.39	116.00	122.15
1	5J	4	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	5Y	192	GLN	CA-CB-CG	5.39	124.88	114.10
1	60	143	ARG	NE-CZ-NH1	-5.39	116.11	121.50
1	63	229	ARG	O-C-N	-5.39	117.60	123.26
1	6c	15	ILE	CA-C-N	5.39	127.89	120.67
1	6c	15	ILE	C-N-CA	5.39	127.89	120.67
1	6d	82	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	6q	100	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	6s	50	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	6v	87	HIS	CA-CB-CG	5.39	119.19	113.80
1	6z	130	TYR	CA-C-N	5.39	127.94	120.29
1	6z	130	TYR	C-N-CA	5.39	127.94	120.29
1	6H	81	ASP	CA-C-N	5.39	127.50	120.28
1	6H	81	ASP	C-N-CA	5.39	127.50	120.28
1	6P	40	PHE	CA-CB-CG	-5.39	108.41	113.80
1	6X	50	GLN	CA-C-N	5.39	127.45	120.44
1	6X	50	GLN	C-N-CA	5.39	127.45	120.44
1	74	44	SER	N-CA-CB	-5.39	102.20	110.12
1	78	29	GLU	N-CA-CB	5.39	118.21	110.40
1	7a	90	PRO	CA-C-N	5.39	129.26	121.18
1	7a	90	PRO	C-N-CA	5.39	129.26	121.18
1	7b	88	ALA	N-CA-C	5.39	118.10	110.50
1	7k	58	THR	N-CA-CB	5.39	118.69	110.44
1	7w	115	ILE	CA-C-N	5.39	125.96	119.98
1	7w	115	ILE	C-N-CA	5.39	125.96	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	12	HIS	CB-CG-CD2	-5.39	124.19	131.20
1	7C	183	ASN	CA-C-O	5.39	126.26	120.55
1	7T	149	SER	N-CA-CB	5.39	117.59	109.34
1	7V	90	PRO	CA-C-O	-5.39	115.27	121.36
1	80	108	THR	CA-CB-OG1	5.39	117.68	109.60
1	8a	128	GLU	N-CA-CB	5.39	118.14	110.16
1	8i	134	ILE	CA-CB-CG2	-5.39	101.34	110.50
1	8q	117	TRP	CA-C-O	5.39	126.26	120.55
1	8w	213	GLU	O-C-N	-5.39	116.27	122.09
1	8x	5	ASN	O-C-N	5.39	129.63	122.95
1	8F	202	LEU	O-C-N	5.39	128.53	122.22
1	8I	40	PHE	N-CA-CB	-5.39	102.20	110.01
1	8J	90	PRO	CB-CA-C	5.39	120.45	111.56
1	9d	97	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	9r	97	ARG	NH1-CZ-NH2	-5.39	112.29	119.30
1	9O	107	THR	N-CA-CB	5.39	118.60	110.30
1	9P	57	ASN	N-CA-CB	-5.39	102.19	110.01
1	9P	226	HIS	CA-C-O	-5.39	112.91	119.43
1	9Z	61	GLY	CA-C-N	5.39	130.60	122.68
1	9Z	61	GLY	C-N-CA	5.39	130.60	122.68
1	ad	77	ALA	CA-C-N	5.39	127.45	120.44
1	ad	77	ALA	C-N-CA	5.39	127.45	120.44
1	al	134	ILE	N-CA-C	5.39	116.12	110.62
1	aw	209	ALA	O-C-N	-5.39	116.50	122.86
1	aF	204	ALA	CA-C-N	5.39	127.45	120.44
1	aF	204	ALA	C-N-CA	5.39	127.45	120.44
1	aK	51	ASP	CA-C-N	5.39	127.50	120.28
1	aK	51	ASP	C-N-CA	5.39	127.50	120.28
1	aM	139	ASN	CA-C-O	5.39	126.17	119.97
1	aW	88	ALA	O-C-N	-5.39	116.18	122.81
1	aX	140	LYS	O-C-N	-5.39	115.92	122.22
1	b8	51	ASP	CA-C-N	5.39	127.77	120.44
1	b8	51	ASP	C-N-CA	5.39	127.77	120.44
1	17	172	LEU	O-C-N	-5.39	115.64	122.27
1	bD	175	GLU	O-C-N	-5.39	116.24	122.87
1	bE	108	THR	CA-CB-OG1	5.39	117.68	109.60
1	bG	217	ALA	O-C-N	5.39	129.22	122.86
1	bK	217	ALA	N-CA-CB	-5.39	102.18	110.16
1	bP	87	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	bQ	145	TYR	N-CA-C	-5.39	106.58	112.72
1	c3	203	LYS	CA-C-N	5.39	128.50	120.31
1	c3	203	LYS	C-N-CA	5.39	128.50	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	32	PHE	CB-CG-CD2	5.39	129.86	120.70
1	ck	82	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	cp	151	LEU	CA-C-O	5.39	126.01	119.11
1	cr	18	ARG	O-C-N	-5.39	115.64	122.27
1	cs	36	VAL	CA-C-N	5.39	124.64	120.33
1	cs	36	VAL	C-N-CA	5.39	124.64	120.33
1	cK	44	SER	CA-C-O	5.39	126.31	119.95
1	cO	213	GLU	CA-C-O	5.39	126.13	120.42
1	cR	226	HIS	CB-CA-C	5.39	117.69	109.34
1	cY	95	GLN	CA-C-N	5.39	128.50	120.95
1	cY	95	GLN	C-N-CA	5.39	128.50	120.95
1	d1	192	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	d4	35	GLU	CA-C-N	5.39	127.84	120.46
1	d4	35	GLU	C-N-CA	5.39	127.84	120.46
1	d7	57	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	d7	87	HIS	CA-C-O	5.39	125.66	119.35
1	d8	212	GLU	CA-C-N	5.39	127.45	120.44
1	d8	212	GLU	C-N-CA	5.39	127.45	120.44
1	dm	13	GLN	CA-C-N	5.39	129.40	120.94
1	dm	13	GLN	C-N-CA	5.39	129.40	120.94
1	dp	163	ASP	O-C-N	-5.39	116.52	122.07
1	dB	202	LEU	N-CA-CB	5.39	118.64	110.28
1	dY	220	GLY	O-C-N	-5.39	117.43	122.50
1	1o	162	ARG	CA-C-N	5.39	127.50	120.28
1	1o	162	ARG	C-N-CA	5.39	127.50	120.28
1	ea	67	GLN	CA-C-N	5.39	127.50	120.28
1	ea	67	GLN	C-N-CA	5.39	127.50	120.28
1	ea	142	VAL	O-C-N	-5.39	116.55	121.94
1	en	42	ALA	CA-C-N	5.39	128.50	120.31
1	en	42	ALA	C-N-CA	5.39	128.50	120.31
1	eq	220	GLY	O-C-N	-5.39	115.69	122.70
1	eI	166	ASP	N-CA-C	5.39	117.58	111.11
1	eX	50	GLN	N-CA-C	5.39	117.15	111.28
1	f2	149	SER	CA-C-N	5.39	129.46	120.62
1	f2	149	SER	C-N-CA	5.39	129.46	120.62
1	f4	165	VAL	CA-C-N	5.39	127.45	120.44
1	f4	165	VAL	C-N-CA	5.39	127.45	120.44
1	f8	112	GLN	CG-CD-OE1	5.39	131.58	120.80
1	f8	127	GLY	N-CA-C	-5.39	105.97	112.49
1	f9	11	VAL	N-CA-C	5.39	116.24	108.48
1	1v	41	SER	O-C-N	5.39	127.69	122.09
1	fe	90	PRO	CB-CA-C	5.39	118.07	111.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1w	115	ILE	CA-C-N	5.39	125.96	119.98
1	1w	115	ILE	C-N-CA	5.39	125.96	119.98
1	1w	184	TRP	CA-C-O	-5.39	114.84	120.55
1	fs	32	PHE	CA-CB-CG	-5.39	108.41	113.80
1	fK	175	GLU	N-CA-C	5.39	118.04	110.23
1	fN	27	VAL	CB-CA-C	-5.39	104.86	112.14
1	fV	167	ARG	N-CA-C	5.39	117.15	111.28
1	g7	119	THR	O-C-N	-5.39	115.21	122.22
1	b	106	GLY	N-CA-C	-5.39	107.83	115.43
1	e	108	THR	CA-C-O	5.39	126.19	119.78
1	1	47	ALA	N-CA-C	5.39	118.13	110.10
1	r	229	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	w	225	GLY	CA-C-N	5.39	128.50	120.95
1	w	225	GLY	C-N-CA	5.39	128.50	120.95
1	D	6	LEU	CA-C-O	5.39	126.29	119.61
1	D	221	VAL	CA-C-O	5.39	126.88	121.17
1	M	84	HIS	CB-CG-CD2	-5.39	124.19	131.20
1	gK	111	LEU	CA-C-N	5.39	128.50	120.31
1	gK	111	LEU	C-N-CA	5.39	128.50	120.31
1	gL	63	GLN	CA-C-O	-5.39	114.84	120.55
1	h1	132	ARG	N-CA-CB	5.39	118.04	110.12
1	h5	114	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	hb	102	SER	N-CA-C	5.39	117.15	111.28
1	hx	194	ALA	CA-C-N	5.39	127.98	120.65
1	hx	194	ALA	C-N-CA	5.39	127.98	120.65
1	1M	176	GLN	CB-CG-CD	5.39	121.76	112.60
1	ia	150	ILE	CA-C-N	5.39	127.50	120.28
1	ia	150	ILE	C-N-CA	5.39	127.50	120.28
1	iw	7	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	iG	33	SER	CA-C-O	-5.39	114.43	120.25
1	iP	80	TRP	N-CA-C	5.39	117.85	111.33
1	iP	114	GLN	CG-CD-NE2	-5.39	108.32	116.40
1	iS	64	ALA	CA-C-N	5.39	127.44	120.44
1	iS	64	ALA	C-N-CA	5.39	127.44	120.44
1	j9	82	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	jb	83	LEU	N-CA-CB	-5.39	102.26	110.07
1	jp	167	ARG	N-CA-C	-5.39	105.41	111.28
1	jy	26	VAL	O-C-N	-5.39	116.30	121.90
1	jK	167	ARG	NH1-CZ-NH2	-5.39	112.30	119.30
1	1Y	117	TRP	N-CA-C	5.39	117.15	111.28
1	1Y	200	THR	CB-CA-C	-5.39	102.42	110.88
1	ka	76	GLU	N-CA-C	5.39	116.84	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kw	204	ALA	CA-C-N	5.39	127.50	120.28
1	kw	204	ALA	C-N-CA	5.39	127.50	120.28
1	ky	218	CYS	N-CA-C	5.39	119.06	111.52
1	kO	167	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	l4	88	ALA	O-C-N	-5.39	116.91	122.94
1	lg	68	MET	CA-C-N	5.39	127.44	120.44
1	lg	68	MET	C-N-CA	5.39	127.44	120.44
1	27	176	GLN	N-CA-C	5.39	118.04	110.23
1	li	195	ASN	CA-C-N	5.39	125.46	119.32
1	li	195	ASN	C-N-CA	5.39	125.46	119.32
1	lk	212	GLU	CA-C-N	5.39	127.44	120.44
1	lk	212	GLU	C-N-CA	5.39	127.44	120.44
1	lA	138	LEU	CA-C-N	5.39	127.50	120.28
1	lA	138	LEU	C-N-CA	5.39	127.50	120.28
1	2p	118	MET	N-CA-C	5.39	116.84	111.07
1	2p	182	LYS	N-CA-C	5.39	117.15	111.28
1	39	188	THR	CA-CB-CG2	5.39	119.66	110.50
1	3D	110	THR	CA-C-N	5.39	127.50	120.28
1	3D	110	THR	C-N-CA	5.39	127.50	120.28
1	3K	25	LYS	CA-C-O	5.39	126.26	120.55
1	3K	195	ASN	CA-C-N	5.39	124.84	119.24
1	3K	195	ASN	C-N-CA	5.39	124.84	119.24
1	4e	63	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	58	115	ILE	CA-C-N	5.39	126.06	120.03
1	58	115	ILE	C-N-CA	5.39	126.06	120.03
1	5g	143	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	5k	27	VAL	CA-C-O	5.39	126.55	120.95
1	5E	190	LEU	CA-C-N	5.39	128.44	120.74
1	5E	190	LEU	C-N-CA	5.39	128.44	120.74
1	5V	173	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	65	139	ASN	N-CA-C	5.39	117.15	111.28
1	6g	152	ASP	CA-C-N	5.39	127.84	120.46
1	6g	152	ASP	C-N-CA	5.39	127.84	120.46
1	6x	91	ILE	N-CA-C	5.39	116.02	110.36
1	6K	21	ASN	CA-C-O	5.39	126.48	120.82
1	6K	51	ASP	CA-C-N	5.39	127.44	120.44
1	6K	51	ASP	C-N-CA	5.39	127.44	120.44
1	7o	70	LYS	CA-C-N	5.39	127.50	120.28
1	7o	70	LYS	C-N-CA	5.39	127.50	120.28
1	7u	66	MET	N-CA-C	5.39	117.15	111.28
1	7B	133	TRP	N-CA-C	-5.39	105.41	111.28
1	7I	133	TRP	CE2-CD2-CE3	5.39	124.19	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	84	HIS	CA-C-N	5.39	125.40	119.90
1	7Y	84	HIS	C-N-CA	5.39	125.40	119.90
1	80	132	ARG	CA-C-N	5.39	127.94	120.29
1	80	132	ARG	C-N-CA	5.39	127.94	120.29
1	8f	198	CYS	O-C-N	-5.39	116.41	122.12
1	8x	205	LEU	CA-C-N	5.39	130.33	121.87
1	8x	205	LEU	C-N-CA	5.39	130.33	121.87
1	8H	14	ALA	CB-CA-C	5.39	119.45	109.54
1	97	229	ARG	NH1-CZ-NH2	-5.39	112.30	119.30
1	9u	201	ILE	CB-CA-C	-5.39	104.98	111.88
1	9x	171	THR	CA-CB-OG1	5.39	117.68	109.60
1	9S	89	GLY	CA-C-N	5.39	126.58	119.84
1	9S	89	GLY	C-N-CA	5.39	126.58	119.84
1	9V	129	ILE	N-CA-CB	5.39	116.85	110.55
1	a3	58	THR	CA-C-N	5.39	128.40	120.91
1	a3	58	THR	C-N-CA	5.39	128.40	120.91
1	a9	133	TRP	CG-CD2-CE3	-5.39	128.51	133.90
1	aA	216	THR	CA-CB-OG1	5.39	117.68	109.60
1	aE	5	ASN	O-C-N	-5.39	116.41	122.12
1	aK	208	ALA	O-C-N	-5.39	116.90	123.10
1	b7	166	ASP	N-CA-CB	-5.39	102.26	110.07
1	bf	154	ARG	CD-NE-CZ	5.39	131.94	124.40
1	bl	37	ILE	O-C-N	-5.39	116.24	120.07
1	bz	206	GLY	CA-C-N	5.39	126.10	120.12
1	bz	206	GLY	C-N-CA	5.39	126.10	120.12
1	cd	190	LEU	CA-C-N	5.39	132.93	122.69
1	cd	190	LEU	C-N-CA	5.39	132.93	122.69
1	cC	169	TYR	N-CA-CB	5.39	118.14	110.06
1	cH	23	TRP	CB-CG-CD2	5.39	134.34	126.80
1	cI	173	ARG	CA-C-O	5.39	126.13	120.42
1	cK	221	VAL	O-C-N	-5.39	116.83	123.03
1	di	31	ALA	CB-CA-C	5.39	121.14	110.42
1	dl	195	ASN	CB-CG-OD1	5.39	131.57	120.80
1	dm	229	ARG	CA-C-N	5.39	131.67	121.97
1	dm	229	ARG	C-N-CA	5.39	131.67	121.97
1	dx	166	ASP	CA-C-O	5.39	126.26	120.55
1	dQ	18	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	dR	82	ARG	N-CA-C	5.39	117.15	111.28
1	e8	77	ALA	N-CA-C	5.39	116.83	111.07
1	eM	117	TRP	CB-CA-C	5.39	119.73	110.79
1	1y	228	ALA	CB-CA-C	5.39	121.14	110.42
1	fP	11	VAL	CB-CA-C	-5.39	102.62	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g0	195	ASN	N-CA-CB	-5.39	100.30	109.57
1	n	143	ARG	N-CA-C	5.39	116.83	111.07
1	s	77	ALA	O-C-N	-5.39	115.64	122.27
1	y	229	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	W	156	GLY	CA-C-N	5.39	125.03	119.05
1	W	156	GLY	C-N-CA	5.39	125.03	119.05
1	6	11	VAL	CA-C-N	5.39	128.52	120.87
1	6	11	VAL	C-N-CA	5.39	128.52	120.87
1	g8	53	ASN	CB-CA-C	-5.39	101.85	110.79
1	gb	96	MET	CA-C-N	5.39	128.88	120.75
1	gb	96	MET	C-N-CA	5.39	128.88	120.75
1	gl	114	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	gp	81	ASP	CA-C-N	5.39	127.44	120.44
1	gp	81	ASP	C-N-CA	5.39	127.44	120.44
1	gr	51	ASP	CA-C-N	5.39	127.44	120.44
1	gr	51	ASP	C-N-CA	5.39	127.44	120.44
1	gw	36	VAL	CA-C-O	5.39	126.33	120.57
1	gA	162	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	gL	56	LEU	N-CA-C	5.39	118.07	111.82
1	gM	108	THR	N-CA-C	-5.39	106.48	113.16
1	h0	211	LEU	N-CA-CB	-5.39	101.39	110.49
1	1H	12	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	hC	65	ALA	N-CA-CB	-5.39	102.19	110.16
1	hU	224	PRO	O-C-N	-5.39	115.00	122.27
1	hX	72	THR	CA-C-N	5.39	127.45	120.56
1	hX	72	THR	C-N-CA	5.39	127.45	120.56
1	hZ	228	ALA	N-CA-C	5.39	118.63	111.30
1	i2	16	SER	CA-C-N	5.39	124.84	119.24
1	i2	16	SER	C-N-CA	5.39	124.84	119.24
1	i7	118	MET	CG-SD-CE	-5.39	89.05	100.90
1	il	120	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	ip	33	SER	O-C-N	-5.39	115.40	121.43
1	iq	183	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	1Q	143	ARG	O-C-N	-5.39	116.41	122.12
1	iD	139	ASN	O-C-N	-5.39	116.41	122.12
1	iS	114	GLN	N-CA-C	5.39	117.15	111.28
1	iU	39	MET	CB-CA-C	-5.39	101.69	110.85
1	iX	150	ILE	N-CA-C	5.39	116.11	110.62
1	j5	212	GLU	N-CA-C	5.39	117.85	111.33
1	j8	4	GLN	CA-C-O	5.39	125.95	120.24
1	j8	115	ILE	CA-C-O	-5.39	115.46	121.17
1	jb	181	VAL	CA-C-O	-5.39	115.35	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	154	ARG	CA-C-N	5.39	128.41	120.82
1	1U	154	ARG	C-N-CA	5.39	128.41	120.82
1	1U	210	THR	O-C-N	-5.39	116.65	122.79
1	ji	69	LEU	CA-C-N	5.39	127.81	120.54
1	ji	69	LEU	C-N-CA	5.39	127.81	120.54
1	jk	77	ALA	N-CA-C	5.39	117.85	111.33
1	jm	47	ALA	CA-C-O	5.39	127.00	120.81
1	jp	63	GLN	N-CA-C	5.39	119.57	112.89
1	jG	82	ARG	N-CA-C	5.39	117.15	111.28
1	jK	169	TYR	N-CA-C	5.39	117.15	111.28
1	jL	110	THR	CA-C-N	5.39	127.76	120.38
1	jL	110	THR	C-N-CA	5.39	127.76	120.38
1	jM	114	GLN	N-CA-C	5.39	117.15	111.28
1	jN	195	ASN	CA-C-N	5.39	126.57	119.84
1	jN	195	ASN	C-N-CA	5.39	126.57	119.84
1	jU	161	PHE	N-CA-CB	-5.39	102.19	110.16
1	jW	224	PRO	N-CA-CB	5.39	108.91	103.25
1	jX	97	ARG	NE-CZ-NH2	-5.39	114.35	119.20
1	k7	68	MET	N-CA-C	5.39	117.15	111.28
1	21	214	MET	O-C-N	-5.39	115.11	122.33
1	kz	154	ARG	O-C-N	-5.39	116.70	123.27
1	kC	87	HIS	N-CA-CB	5.39	119.59	110.49
1	kD	62	HIS	CB-CG-CD2	-5.39	124.20	131.20
1	kI	149	SER	CB-CA-C	5.39	118.43	110.14
1	kP	100	ARG	NE-CZ-NH1	5.39	126.89	121.50
1	kS	97	ARG	N-CA-C	5.39	118.10	110.50
1	kY	22	ALA	CA-C-N	5.39	127.44	120.44
1	kY	22	ALA	C-N-CA	5.39	127.44	120.44
1	l3	75	GLU	O-C-N	-5.39	116.41	122.12
1	l4	187	GLU	CB-CG-CD	-5.39	103.44	112.60
1	lf	42	ALA	CA-C-N	5.39	128.50	120.31
1	lf	42	ALA	C-N-CA	5.39	128.50	120.31
1	ll	174	ALA	O-C-N	-5.39	116.01	122.15
1	lp	129	ILE	CA-C-N	5.39	127.44	120.44
1	lp	129	ILE	C-N-CA	5.39	127.44	120.44
1	lq	23	TRP	CA-CB-CG	5.39	123.83	113.60
1	lu	228	ALA	CB-CA-C	-5.39	102.42	110.88
1	lz	30	LYS	CB-CA-C	-5.39	100.48	109.75
1	lG	169	TYR	O-C-N	-5.39	116.41	122.12
1	2f	119	THR	CA-CB-OG1	5.39	117.68	109.60
1	2j	228	ALA	CB-CA-C	-5.39	101.06	109.84
1	2n	87	HIS	CG-CD2-NE2	5.39	112.59	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2x	19	THR	CA-C-O	5.39	126.13	120.42
1	2J	46	GLY	N-CA-C	-5.39	106.78	115.08
1	3f	62	HIS	O-C-N	-5.39	116.39	122.86
1	3z	80	TRP	CE2-CD2-CG	-5.39	100.73	107.20
1	3z	172	LEU	CA-C-N	5.39	127.50	120.28
1	3z	172	LEU	C-N-CA	5.39	127.50	120.28
1	3A	200	THR	CA-C-N	5.39	127.84	120.46
1	3A	200	THR	C-N-CA	5.39	127.84	120.46
1	3F	57	ASN	N-CA-CB	-5.39	101.98	110.06
1	3P	28	GLU	CA-C-N	5.39	127.94	120.29
1	3P	28	GLU	C-N-CA	5.39	127.94	120.29
1	3U	226	HIS	CE1-NE2-CD2	-5.39	103.61	109.00
1	3V	78	ALA	N-CA-C	5.39	116.83	111.07
1	3X	32	PHE	CA-CB-CG	-5.39	108.41	113.80
1	3Z	63	GLN	O-C-N	-5.39	115.03	122.46
1	41	166	ASP	N-CA-C	5.39	117.15	111.28
1	42	162	ARG	CA-C-O	-5.39	114.84	120.55
1	4E	26	VAL	CB-CA-C	5.39	119.41	112.14
1	4I	167	ARG	CA-C-N	5.39	127.77	120.44
1	4I	167	ARG	C-N-CA	5.39	127.77	120.44
1	4K	180	GLU	N-CA-CB	5.39	118.04	110.12
1	4N	8	GLY	CA-C-N	5.39	128.41	120.82
1	4N	8	GLY	C-N-CA	5.39	128.41	120.82
1	4T	149	SER	O-C-N	-5.39	116.87	122.96
1	59	55	MET	N-CA-C	5.39	117.15	111.28
1	5f	216	THR	N-CA-CB	5.39	118.92	110.46
1	5g	100	ARG	CA-C-N	5.39	126.06	120.03
1	5g	100	ARG	C-N-CA	5.39	126.06	120.03
1	5i	183	ASN	N-CA-C	5.39	117.91	111.71
1	5j	188	THR	O-C-N	-5.39	115.43	122.59
1	5s	112	GLN	CB-CG-CD	-5.39	103.44	112.60
1	5s	192	GLN	N-CA-CB	5.39	118.04	110.12
1	5y	149	SER	O-C-N	-5.39	116.81	123.33
1	5G	79	GLU	O-C-N	-5.39	115.21	122.43
1	5G	185	MET	N-CA-C	5.39	117.23	111.36
1	5H	135	ILE	N-CA-C	5.39	116.11	110.62
1	5O	131	LYS	O-C-N	-5.39	115.92	122.22
1	5X	76	GLU	CA-C-N	5.39	127.50	120.28
1	5X	76	GLU	C-N-CA	5.39	127.50	120.28
1	61	104	ILE	CA-C-O	5.39	126.65	121.05
1	62	179	GLN	CA-C-O	5.39	126.45	120.63
1	66	112	GLN	N-CA-C	5.39	117.15	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	55	MET	CA-C-O	5.39	126.26	120.55
1	6g	93	PRO	CA-C-N	5.39	131.97	121.41
1	6g	93	PRO	C-N-CA	5.39	131.97	121.41
1	6i	159	GLU	N-CA-C	5.39	116.73	109.24
1	6j	25	LYS	O-C-N	-5.39	116.01	122.15
1	6E	22	ALA	CA-C-N	5.39	127.44	120.44
1	6E	22	ALA	C-N-CA	5.39	127.44	120.44
1	6Q	90	PRO	N-CA-C	5.39	119.68	111.11
1	6W	19	THR	N-CA-C	5.39	117.15	111.28
1	6Z	212	GLU	N-CA-C	5.39	116.83	111.07
1	7b	170	LYS	O-C-N	-5.39	116.41	122.12
1	7d	83	LEU	N-CA-CB	-5.39	102.20	110.01
1	7d	224	PRO	N-CA-CB	-5.39	97.59	103.25
1	7g	31	ALA	O-C-N	-5.39	115.42	122.59
1	7l	6	LEU	CA-C-N	5.39	128.36	120.71
1	7l	6	LEU	C-N-CA	5.39	128.36	120.71
1	7p	93	PRO	N-CA-C	5.39	119.54	111.14
1	7q	180	GLU	N-CA-C	5.39	120.26	111.37
1	7s	50	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	7E	121	ASN	OD1-CG-ND2	-5.39	117.21	122.60
1	7F	210	THR	N-CA-CB	5.39	118.06	110.36
1	7J	63	GLN	CA-C-N	5.39	127.81	120.54
1	7J	63	GLN	C-N-CA	5.39	127.81	120.54
1	7N	139	ASN	CB-CG-OD1	-5.39	110.03	120.80
1	7R	75	GLU	N-CA-CB	5.39	117.82	110.01
1	87	37	ILE	N-CA-C	5.39	120.42	112.61
1	8i	73	ILE	CB-CA-C	-5.39	105.08	111.97
1	8k	65	ALA	CA-C-N	5.39	127.44	120.44
1	8k	65	ALA	C-N-CA	5.39	127.44	120.44
1	8u	197	ASP	CA-C-O	5.39	126.26	120.55
1	8J	154	ARG	N-CA-CB	5.39	119.48	110.59
1	8S	149	SER	O-C-N	-5.39	117.01	123.31
1	95	6	LEU	N-CA-C	5.39	118.38	110.30
1	95	68	MET	N-CA-CB	5.39	118.04	110.12
1	97	34	PRO	N-CA-CB	-5.39	97.59	103.25
1	9a	195	ASN	CB-CA-C	5.39	117.19	109.11
1	9g	197	ASP	CA-C-O	5.39	126.19	120.10
1	9u	11	VAL	N-CA-CB	5.39	116.59	110.72
1	9C	92	GLU	CA-C-N	5.39	125.69	119.93
1	9C	92	GLU	C-N-CA	5.39	125.69	119.93
1	9G	81	ASP	CA-C-N	5.39	127.44	120.44
1	9G	81	ASP	C-N-CA	5.39	127.44	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9I	141	ILE	N-CA-C	5.39	115.59	110.42
1	9L	14	ALA	N-CA-C	5.39	118.13	110.10
1	9O	64	ALA	CA-C-O	5.39	126.13	120.42
1	Y	117	TRP	N-CA-C	5.39	117.57	111.11
1	9V	226	HIS	CA-C-N	5.39	130.57	121.14
1	9V	226	HIS	C-N-CA	5.39	130.57	121.14
1	9X	188	THR	O-C-N	-5.39	116.91	123.10
1	9Y	64	ALA	N-CA-C	5.39	117.15	111.28
1	Z	13	GLN	OE1-CD-NE2	-5.39	117.21	122.60
1	10	225	GLY	O-C-N	-5.39	116.15	122.34
1	ab	90	PRO	N-CD-CG	5.39	111.28	103.20
1	ao	69	LEU	N-CA-CB	-5.39	102.20	110.01
1	at	215	MET	N-CA-C	5.39	117.15	111.28
1	ay	57	ASN	N-CA-C	-5.39	106.66	113.18
1	aT	154	ARG	NH1-CZ-NH2	-5.39	112.30	119.30
1	b7	122	PRO	CA-C-N	5.39	125.31	119.76
1	b7	122	PRO	C-N-CA	5.39	125.31	119.76
1	bh	147	PRO	CB-CA-C	5.39	120.45	111.56
1	bD	96	MET	O-C-N	-5.39	117.11	123.25
1	bE	80	TRP	CH2-CZ2-CE2	5.39	124.50	117.50
1	bH	25	LYS	CA-C-O	-5.39	114.84	120.55
1	1a	194	ALA	N-CA-C	5.39	117.68	110.35
1	bV	12	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	c3	201	ILE	N-CA-C	5.39	115.59	110.42
1	1c	160	PRO	CB-CA-C	-5.39	103.97	110.00
1	c8	25	LYS	N-CA-C	5.39	117.23	111.36
1	cq	19	THR	CA-C-O	5.39	126.26	120.55
1	cu	73	ILE	N-CA-C	5.39	116.11	110.62
1	cw	136	LEU	CA-C-N	5.39	131.97	121.41
1	cw	136	LEU	C-N-CA	5.39	131.97	121.41
1	cA	47	ALA	CA-C-N	5.39	128.87	120.68
1	cA	47	ALA	C-N-CA	5.39	128.87	120.68
1	cC	115	ILE	N-CA-CB	5.39	119.86	110.65
1	cJ	221	VAL	N-CA-C	-5.39	104.75	112.35
1	cN	123	PRO	CB-CA-C	5.39	118.40	111.56
1	cZ	23	TRP	N-CA-CB	-5.39	101.92	109.94
1	ds	62	HIS	CB-CG-ND1	-5.39	114.62	122.70
1	du	133	TRP	CB-CG-CD2	-5.39	119.26	126.80
1	dy	120	HIS	ND1-CE1-NE2	5.39	113.79	108.40
1	dE	102	SER	CB-CA-C	-5.39	101.85	110.79
1	dF	84	HIS	CA-CB-CG	-5.39	108.41	113.80
1	dG	2	ILE	CA-C-N	5.39	130.49	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	2	ILE	C-N-CA	5.39	130.49	123.06
1	dK	132	ARG	N-CA-C	5.39	117.15	111.28
1	dP	62	HIS	CA-CB-CG	-5.39	108.41	113.80
1	e8	174	ALA	O-C-N	-5.39	116.41	122.12
1	ej	48	THR	CA-C-O	-5.39	113.54	121.46
1	ev	151	LEU	N-CA-C	5.39	119.11	112.54
1	1r	125	PRO	N-CA-CB	-5.39	98.80	102.73
1	eL	155	GLN	N-CA-C	5.39	118.04	110.23
1	eO	161	PHE	CA-C-N	5.39	129.75	121.19
1	eO	161	PHE	C-N-CA	5.39	129.75	121.19
1	eS	220	GLY	O-C-N	-5.39	115.59	122.43
1	f7	154	ARG	NE-CZ-NH2	5.39	124.05	119.20
1	fg	50	GLN	CB-CA-C	-5.39	100.33	110.67
1	fg	68	MET	N-CA-C	5.39	117.90	111.71
1	fn	65	ALA	CA-C-O	5.39	126.48	120.82
1	1x	216	THR	O-C-N	-5.39	115.03	122.46
1	fA	208	ALA	N-CA-CB	5.39	118.04	110.12
1	fA	217	ALA	O-C-N	-5.39	116.19	122.81
1	fC	230	VAL	O-C-N	-5.39	115.84	122.57
1	1y	119	THR	OG1-CB-CG2	-5.39	98.53	109.30
1	fE	44	SER	CA-C-N	5.39	128.36	120.71
1	fE	44	SER	C-N-CA	5.39	128.36	120.71
1	fG	136	LEU	CA-C-N	5.39	125.96	119.98
1	fG	136	LEU	C-N-CA	5.39	125.96	119.98
1	fO	44	SER	O-C-N	-5.39	115.44	122.39
1	fR	185	MET	N-CA-C	5.39	117.15	111.28
1	g4	130	TYR	CA-C-N	5.39	127.50	120.28
1	g4	130	TYR	C-N-CA	5.39	127.50	120.28
1	b	12	HIS	N-CA-C	5.39	118.04	109.96
1	g	194	ALA	O-C-N	-5.39	116.50	122.86
1	F	95	GLN	CA-C-O	-5.39	115.02	121.11
1	G	105	ALA	N-CA-C	5.39	119.11	112.54
1	J	172	LEU	CB-CA-C	-5.39	101.69	110.85
1	L	152	ASP	CA-C-O	5.39	125.65	119.35
1	S	174	ALA	O-C-N	5.39	128.90	122.27
1	W	48	THR	O-C-N	-5.39	114.34	121.34
1	7	23	TRP	CB-CA-C	5.39	119.34	110.88
1	gd	115	ILE	CA-C-N	5.38	125.96	119.98
1	gd	115	ILE	C-N-CA	5.38	125.96	119.98
1	gg	104	ILE	CA-CB-CG2	5.38	119.65	110.50
1	gg	133	TRP	CB-CG-CD2	5.38	134.34	126.80
1	gg	184	TRP	N-CA-CB	5.38	118.03	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gh	89	GLY	CA-C-N	5.38	125.68	119.92
1	gh	89	GLY	C-N-CA	5.38	125.68	119.92
1	gi	162	ARG	CA-C-N	5.38	127.50	120.28
1	gi	162	ARG	C-N-CA	5.38	127.50	120.28
1	gq	95	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	gt	48	THR	N-CA-CB	5.38	115.99	109.74
1	gt	116	GLY	CA-C-N	5.38	127.49	120.28
1	gt	116	GLY	C-N-CA	5.38	127.49	120.28
1	gu	109	SER	O-C-N	-5.38	117.25	123.33
1	gA	162	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	gF	162	ARG	CG-CD-NE	-5.38	100.16	112.00
1	gH	195	ASN	O-C-N	-5.38	115.13	121.32
1	gI	103	ASP	CA-CB-CG	5.38	117.98	112.60
1	gV	120	HIS	CA-CB-CG	5.38	119.19	113.80
1	gY	160	PRO	O-C-N	-5.38	116.33	123.01
1	h0	80	TRP	CB-CG-CD2	5.38	134.34	126.80
1	h6	87	HIS	N-CA-C	5.38	117.67	110.35
1	h9	56	LEU	N-CA-C	5.38	119.57	112.89
1	ha	25	LYS	N-CA-C	5.38	116.83	111.07
1	hc	92	GLU	CA-C-N	5.38	125.31	119.76
1	hc	92	GLU	C-N-CA	5.38	125.31	119.76
1	hd	119	THR	N-CA-C	-5.38	106.48	113.16
1	hj	196	PRO	CB-CA-C	-5.38	103.76	111.62
1	hm	168	PHE	N-CA-CB	5.38	117.82	110.01
1	hn	32	PHE	O-C-N	-5.38	117.02	123.27
1	ht	72	THR	N-CA-C	5.38	117.15	111.28
1	hx	123	PRO	N-CA-CB	5.38	108.03	103.35
1	hK	150	ILE	N-CA-C	-5.38	104.22	111.44
1	hY	206	GLY	O-C-N	-5.38	116.39	121.77
1	i1	189	LEU	CA-C-O	-5.38	113.78	119.97
1	i6	12	HIS	CB-CG-CD2	-5.38	124.20	131.20
1	i9	114	GLN	N-CA-C	5.38	116.83	111.07
1	ie	185	MET	CB-CA-C	5.38	119.73	110.79
1	ir	159	GLU	CA-C-N	5.38	125.64	119.83
1	ir	159	GLU	C-N-CA	5.38	125.64	119.83
1	is	157	PRO	N-CA-CB	5.38	109.23	103.52
1	iu	101	GLY	N-CA-C	5.38	119.19	112.73
1	iC	36	VAL	CA-C-N	5.38	124.64	120.33
1	iC	36	VAL	C-N-CA	5.38	124.64	120.33
1	iF	204	ALA	N-CA-C	5.38	116.96	111.14
1	iF	212	GLU	CA-C-O	5.38	126.25	120.70
1	iG	171	THR	CA-CB-OG1	5.38	117.68	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iJ	81	ASP	CA-CB-CG	5.38	117.98	112.60
1	iT	20	LEU	N-CA-C	5.38	117.23	111.36
1	j0	35	GLU	N-CA-C	5.38	119.47	113.01
1	j1	168	PHE	CA-C-N	5.38	127.50	120.28
1	j1	168	PHE	C-N-CA	5.38	127.50	120.28
1	j2	139	ASN	O-C-N	-5.38	115.08	122.46
1	j6	207	PRO	O-C-N	-5.38	114.81	122.35
1	jA	171	THR	CA-C-N	5.38	127.50	120.28
1	jA	171	THR	C-N-CA	5.38	127.50	120.28
1	jF	171	THR	O-C-N	-5.38	114.94	122.37
1	jO	129	ILE	O-C-N	-5.38	116.63	121.91
1	jR	21	ASN	CA-C-O	5.38	126.47	120.82
1	k8	181	VAL	O-C-N	-5.38	116.65	121.87
1	kc	173	ARG	NH1-CZ-NH2	5.38	126.30	119.30
1	kf	95	GLN	OE1-CD-NE2	5.38	127.98	122.60
1	kj	86	VAL	CA-CB-CG2	-5.38	101.25	110.40
1	kk	55	MET	N-CA-C	5.38	117.57	111.11
1	ko	114	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	kp	73	ILE	N-CA-C	5.38	117.82	111.09
1	ks	37	ILE	N-CA-CB	5.38	114.65	110.45
1	22	162	ARG	CA-C-N	5.38	127.44	120.44
1	22	162	ARG	C-N-CA	5.38	127.44	120.44
1	kz	140	LYS	CA-C-N	5.38	128.12	120.53
1	kz	140	LYS	C-N-CA	5.38	128.12	120.53
1	kF	13	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	kF	216	THR	CA-C-O	5.38	126.50	119.98
1	kV	23	TRP	CA-C-N	5.38	127.84	120.46
1	kV	23	TRP	C-N-CA	5.38	127.84	120.46
1	25	103	ASP	CA-CB-CG	-5.38	107.22	112.60
1	kZ	6	LEU	O-C-N	-5.38	117.03	123.06
1	kZ	96	MET	CA-C-O	5.38	126.90	120.28
1	l3	51	ASP	CA-C-N	5.38	127.76	120.44
1	l3	51	ASP	C-N-CA	5.38	127.76	120.44
1	27	128	GLU	CA-C-N	5.38	127.34	120.56
1	27	128	GLU	C-N-CA	5.38	127.34	120.56
1	ln	229	ARG	CA-CB-CG	-5.38	103.33	114.10
1	lD	114	GLN	OE1-CD-NE2	5.38	127.98	122.60
1	lG	193	ASN	CA-CB-CG	-5.38	107.22	112.60
1	2p	62	HIS	CB-CG-ND1	-5.38	114.62	122.70
1	32	39	MET	CA-C-N	5.38	127.44	120.44
1	32	39	MET	C-N-CA	5.38	127.44	120.44
1	36	61	GLY	CA-C-N	5.38	129.78	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	36	61	GLY	C-N-CA	5.38	129.78	122.19
1	37	180	GLU	N-CA-C	5.38	116.83	111.07
1	3a	212	GLU	CA-C-O	5.38	126.26	120.55
1	3c	162	ARG	N-CA-C	5.38	117.15	111.28
1	3g	132	ARG	O-C-N	5.38	127.83	122.12
1	3h	51	ASP	CB-CA-C	-5.38	101.70	110.85
1	3o	197	ASP	CA-C-N	5.38	127.76	120.38
1	3o	197	ASP	C-N-CA	5.38	127.76	120.38
1	3E	195	ASN	O-C-N	-5.38	116.51	121.30
1	3I	30	LYS	O-C-N	-5.38	116.91	123.10
1	3N	36	VAL	CB-CA-C	-5.38	104.87	112.14
1	3T	112	GLN	CA-C-N	5.38	127.76	120.44
1	3T	112	GLN	C-N-CA	5.38	127.76	120.44
1	3W	119	THR	CA-CB-OG1	5.38	117.68	109.60
1	3Z	80	TRP	CB-CG-CD2	5.38	134.34	126.80
1	40	75	GLU	CA-C-N	5.38	127.50	120.28
1	40	75	GLU	C-N-CA	5.38	127.50	120.28
1	45	69	LEU	O-C-N	-5.38	116.52	122.07
1	4f	53	ASN	N-CA-C	5.38	117.15	111.28
1	4g	200	THR	O-C-N	-5.38	116.41	122.12
1	4j	10	MET	N-CA-CB	5.38	117.96	109.83
1	4j	107	THR	N-CA-C	5.38	117.59	111.02
1	4o	2	ILE	CA-C-O	5.38	125.71	120.27
1	4p	20	LEU	N-CA-C	5.38	116.83	111.07
1	4s	65	ALA	N-CA-C	5.38	117.15	111.28
1	4x	212	GLU	O-C-N	-5.38	116.41	122.12
1	4G	177	ALA	CA-C-N	5.38	128.49	120.90
1	4G	177	ALA	C-N-CA	5.38	128.49	120.90
1	4U	39	MET	CA-C-O	-5.38	114.84	120.55
1	4U	205	LEU	CA-C-O	5.38	126.13	120.42
1	4W	12	HIS	CG-CD2-NE2	5.38	112.58	107.20
1	4Z	107	THR	CA-C-O	5.38	126.57	120.00
1	54	139	ASN	N-CA-CB	5.38	118.13	110.16
1	59	173	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	5a	57	ASN	N-CA-C	5.38	117.90	111.71
1	5d	196	PRO	N-CA-C	5.38	123.56	112.47
1	5h	13	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	5k	94	GLY	CA-C-O	5.38	126.44	119.44
1	5m	145	TYR	CB-CG-CD1	-5.38	112.72	120.80
1	5C	49	PRO	CA-C-N	5.38	127.49	120.28
1	5C	49	PRO	C-N-CA	5.38	127.49	120.28
1	5D	84	HIS	CE1-NE2-CD2	-5.38	103.62	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5K	201	ILE	CA-C-N	5.38	127.44	120.44
1	5K	201	ILE	C-N-CA	5.38	127.44	120.44
1	5N	172	LEU	N-CA-C	5.38	117.85	111.33
1	5Q	159	GLU	O-C-N	-5.38	116.40	121.35
1	5U	73	ILE	N-CA-C	5.38	115.59	110.42
1	62	42	ALA	N-CA-C	5.38	118.07	111.82
1	64	30	LYS	O-C-N	-5.38	115.31	122.20
1	6d	152	ASP	CA-CB-CG	-5.38	107.22	112.60
1	6j	223	GLY	CA-C-N	5.38	125.39	119.90
1	6j	223	GLY	C-N-CA	5.38	125.39	119.90
1	6p	207	PRO	N-CA-C	5.38	123.56	112.47
1	6z	137	GLY	CA-C-N	5.38	127.81	120.54
1	6z	137	GLY	C-N-CA	5.38	127.81	120.54
1	6L	13	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	6M	69	LEU	CA-C-O	-5.38	115.16	120.70
1	6M	178	SER	O-C-N	-5.38	116.66	123.12
1	6W	47	ALA	N-CA-C	5.38	118.04	109.96
1	71	129	ILE	CA-C-N	5.38	127.76	120.38
1	71	129	ILE	C-N-CA	5.38	127.76	120.38
1	76	149	SER	N-CA-C	-5.38	101.12	109.14
1	7a	140	LYS	N-CA-C	5.38	117.15	111.28
1	7f	91	ILE	CA-C-N	5.38	129.47	120.86
1	7f	91	ILE	C-N-CA	5.38	129.47	120.86
1	7Q	93	PRO	N-CA-CB	5.38	108.90	103.25
1	7W	183	ASN	CA-C-N	5.38	127.50	120.28
1	7W	183	ASN	C-N-CA	5.38	127.50	120.28
1	7Z	121	ASN	CA-CB-CG	-5.38	107.22	112.60
1	8c	146	SER	CA-C-N	5.38	125.64	119.83
1	8c	146	SER	C-N-CA	5.38	125.64	119.83
1	8c	167	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	8e	210	THR	O-C-N	-5.38	116.38	122.68
1	8V	145	TYR	CA-C-N	5.38	127.89	120.67
1	8V	145	TYR	C-N-CA	5.38	127.89	120.67
1	92	13	GLN	CA-C-O	-5.38	114.89	121.78
1	9f	182	LYS	N-CA-CB	5.38	118.04	110.12
1	9g	196	PRO	N-CA-CB	5.38	108.90	103.25
1	9k	85	PRO	CA-C-N	5.38	127.71	120.50
1	9k	85	PRO	C-N-CA	5.38	127.71	120.50
1	9n	69	LEU	O-C-N	-5.38	116.41	122.12
1	a2	157	PRO	N-CA-C	5.38	121.62	113.81
1	a6	13	GLN	O-C-N	-5.38	116.94	123.29
1	am	98	GLU	CB-CA-C	5.38	118.07	109.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	189	LEU	N-CA-C	5.38	116.83	111.07
1	au	67	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	av	12	HIS	N-CA-C	5.38	117.64	110.53
1	aD	159	GLU	CA-C-N	5.38	126.10	120.12
1	aD	159	GLU	C-N-CA	5.38	126.10	120.12
1	aO	223	GLY	O-C-N	-5.38	116.39	121.77
1	aU	215	MET	CG-SD-CE	-5.38	89.05	100.90
1	aW	4	GLN	N-CA-CB	5.38	119.59	110.49
1	b0	123	PRO	N-CA-C	5.38	119.77	111.21
1	bb	18	ARG	CG-CD-NE	-5.38	100.15	112.00
1	bc	146	SER	CA-C-O	-5.38	113.12	118.34
1	be	79	GLU	CA-C-N	5.38	127.94	120.29
1	be	79	GLU	C-N-CA	5.38	127.94	120.29
1	br	21	ASN	O-C-N	5.38	127.83	122.12
1	bx	7	GLN	N-CA-C	-5.38	106.58	112.72
1	bx	84	HIS	CA-CB-CG	-5.38	108.42	113.80
1	bA	42	ALA	N-CA-CB	-5.38	102.19	110.16
1	bJ	207	PRO	O-C-N	-5.38	115.37	122.64
1	bM	167	ARG	CG-CD-NE	-5.38	100.16	112.00
1	bQ	37	ILE	O-C-N	-5.38	116.97	120.42
1	bY	118	MET	N-CA-C	5.38	117.15	111.28
1	c2	62	HIS	CG-CD2-NE2	-5.38	101.82	107.20
1	c2	209	ALA	CB-CA-C	-5.38	101.03	109.70
1	cc	26	VAL	CA-CB-CG2	-5.38	101.25	110.40
1	cg	75	GLU	CB-CG-CD	-5.38	103.45	112.60
1	cm	167	ARG	CA-C-N	5.38	127.44	120.44
1	cm	167	ARG	C-N-CA	5.38	127.44	120.44
1	cu	81	ASP	CA-C-O	5.38	126.26	120.55
1	cv	227	LYS	N-CA-C	5.38	117.83	110.24
1	cE	33	SER	CA-C-O	-5.38	114.73	120.28
1	cI	198	CYS	O-C-N	-5.38	115.69	122.20
1	cQ	154	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	cS	72	THR	CA-C-N	5.38	128.07	120.42
1	cS	72	THR	C-N-CA	5.38	128.07	120.42
1	db	118	MET	N-CA-C	5.38	117.90	111.71
1	dd	135	ILE	N-CA-CB	5.38	118.66	110.58
1	dg	4	GLN	O-C-N	-5.38	115.43	122.59
1	dj	184	TRP	CA-C-N	5.38	128.28	120.79
1	dj	184	TRP	C-N-CA	5.38	128.28	120.79
1	ds	182	LYS	O-C-N	5.38	128.52	122.22
1	dW	90	PRO	O-C-N	-5.38	116.52	123.03
1	e3	58	THR	N-CA-C	5.38	119.57	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	75	GLU	CA-C-N	5.38	127.49	120.28
1	ep	75	GLU	C-N-CA	5.38	127.49	120.28
1	eC	85	PRO	CB-CA-C	5.38	120.45	111.56
1	eD	103	ASP	N-CA-C	5.38	117.23	111.36
1	eL	26	VAL	N-CA-CB	-5.38	103.68	110.57
1	eM	23	TRP	CB-CG-CD1	-5.38	118.82	126.90
1	eN	36	VAL	CA-CB-CG1	5.38	119.55	110.40
1	eO	40	PHE	CA-C-O	5.38	126.14	119.79
1	eO	186	THR	O-C-N	-5.38	116.41	122.12
1	eU	70	LYS	N-CA-C	-5.38	105.57	111.82
1	f6	152	ASP	N-CA-CB	-5.38	102.40	110.91
1	ff	62	HIS	CB-CG-CD2	-5.38	124.20	131.20
1	ff	114	GLN	N-CA-C	5.38	117.15	111.28
1	ft	226	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	1x	55	MET	O-C-N	-5.38	116.41	122.12
1	fx	195	ASN	O-C-N	-5.38	115.89	121.28
1	fy	105	ALA	O-C-N	-5.38	115.88	122.34
1	fB	230	VAL	CA-C-N	5.38	131.39	121.70
1	fB	230	VAL	C-N-CA	5.38	131.39	121.70
1	fC	119	THR	CA-CB-OG1	5.38	117.68	109.60
1	fH	193	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	fN	168	PHE	CA-C-O	5.38	126.47	120.82
1	fO	28	GLU	O-C-N	-5.38	116.53	122.07
1	fO	165	VAL	N-CA-C	5.38	116.01	110.36
1	fP	18	ARG	CA-C-O	5.38	126.26	120.55
1	fS	71	GLU	N-CA-CB	5.38	118.04	110.12
1	fW	14	ALA	O-C-N	-5.38	115.43	122.59
1	i	146	SER	CA-C-N	5.38	125.29	119.85
1	i	146	SER	C-N-CA	5.38	125.29	119.85
1	l	211	LEU	N-CA-C	5.38	117.15	111.28
1	o	135	ILE	CA-C-N	5.38	127.81	120.54
1	o	135	ILE	C-N-CA	5.38	127.81	120.54
1	t	24	VAL	CA-C-O	-5.38	115.35	120.95
1	w	86	VAL	CA-CB-CG2	5.38	119.55	110.40
1	E	218	CYS	O-C-N	-5.38	116.01	122.15
1	K	96	MET	CA-C-N	5.38	129.39	120.94
1	K	96	MET	C-N-CA	5.38	129.39	120.94
1	U	212	GLU	N-CA-C	5.38	117.84	111.33
1	gr	169	TYR	CA-CB-CG	-5.38	104.21	113.90
1	gt	219	GLN	CG-CD-NE2	5.38	124.47	116.40
1	gM	179	GLN	CA-C-N	5.38	128.03	120.28
1	gM	179	GLN	C-N-CA	5.38	128.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1G	7	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	h1	127	GLY	CA-C-O	5.38	125.85	120.09
1	ht	62	HIS	CA-CB-CG	-5.38	108.42	113.80
1	hG	195	ASN	O-C-N	-5.38	115.89	121.60
1	hW	67	GLN	N-CA-CB	5.38	118.03	110.12
1	i8	200	THR	N-CA-C	5.38	116.83	111.07
1	ir	230	VAL	CB-CA-C	5.38	118.09	111.25
1	j5	135	ILE	N-CA-C	5.38	115.59	110.42
1	jr	147	PRO	CA-C-N	-5.38	115.21	123.07
1	jr	147	PRO	C-N-CA	-5.38	115.21	123.07
1	jz	86	VAL	CA-C-N	5.38	128.41	120.82
1	jz	86	VAL	C-N-CA	5.38	128.41	120.82
1	kk	192	GLN	CA-C-O	5.38	126.44	120.63
1	ku	193	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	kL	121	ASN	OD1-CG-ND2	5.38	127.98	122.60
1	kS	115	ILE	N-CA-C	5.38	116.16	110.72
1	lg	122	PRO	CA-C-N	5.38	126.57	119.84
1	lg	122	PRO	C-N-CA	5.38	126.57	119.84
1	lA	160	PRO	CA-C-N	5.38	127.49	120.28
1	lA	160	PRO	C-N-CA	5.38	127.49	120.28
1	lB	160	PRO	N-CA-CB	5.38	108.03	103.19
1	2c	77	ALA	CA-C-O	5.38	126.12	120.42
1	2h	195	ASN	CA-CB-CG	-5.38	107.22	112.60
1	2o	202	LEU	N-CA-C	5.38	117.90	111.71
1	2x	76	GLU	CA-C-O	-5.38	114.71	120.42
1	2D	44	SER	N-CA-C	5.38	119.16	112.59
1	2G	63	GLN	CG-CD-OE1	-5.38	110.03	120.80
1	2W	50	GLN	CA-C-N	5.38	127.49	120.28
1	2W	50	GLN	C-N-CA	5.38	127.49	120.28
1	36	84	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	3k	179	GLN	N-CA-CB	5.38	118.13	110.06
1	44	163	ASP	CA-C-O	5.38	126.26	120.55
1	4o	188	THR	CA-C-N	5.38	127.75	120.38
1	4o	188	THR	C-N-CA	5.38	127.75	120.38
1	4t	201	ILE	N-CA-C	5.38	115.59	110.42
1	4D	121	ASN	N-CA-C	5.38	119.38	109.10
1	4K	83	LEU	CA-C-N	-5.38	115.91	122.64
1	4K	83	LEU	C-N-CA	-5.38	115.91	122.64
1	4Z	169	TYR	N-CA-C	5.38	117.84	111.33
1	58	173	ARG	N-CA-C	5.38	118.06	111.82
1	5i	77	ALA	N-CA-C	-5.38	106.22	112.89
1	5w	48	THR	O-C-N	-5.38	114.80	121.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6t	207	PRO	CB-CA-C	5.38	120.44	111.56
1	6u	23	TRP	CA-C-N	5.38	127.45	120.56
1	6u	23	TRP	C-N-CA	5.38	127.45	120.56
1	6V	118	MET	O-C-N	5.38	127.83	122.12
1	6W	78	ALA	CA-C-N	5.38	127.49	120.28
1	6W	78	ALA	C-N-CA	5.38	127.49	120.28
1	72	164	TYR	N-CA-C	5.38	117.15	111.28
1	7f	6	LEU	O-C-N	-5.38	115.43	122.59
1	7h	6	LEU	O-C-N	-5.38	115.43	122.59
1	7u	132	ARG	O-C-N	5.38	127.83	122.12
1	8g	143	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	8m	89	GLY	N-CA-C	5.38	123.32	112.34
1	8m	143	ARG	CB-CA-C	-5.38	100.33	110.67
1	8x	13	GLN	CB-CA-C	5.38	120.36	110.24
1	8A	195	ASN	CA-CB-CG	-5.38	107.22	112.60
1	8G	210	THR	CA-C-O	-5.38	115.95	121.87
1	8W	63	GLN	O-C-N	5.38	128.52	122.22
1	9k	205	LEU	CA-C-N	5.38	130.32	121.87
1	9k	205	LEU	C-N-CA	5.38	130.32	121.87
1	9w	106	GLY	N-CA-C	-5.38	107.78	115.64
1	9A	4	GLN	CA-C-N	5.38	131.82	121.54
1	9A	4	GLN	C-N-CA	5.38	131.82	121.54
1	a6	201	ILE	O-C-N	-5.38	116.65	121.87
1	a9	120	HIS	O-C-N	-5.38	116.91	122.94
1	ak	148	THR	CA-C-O	5.38	124.82	118.90
1	aD	217	ALA	N-CA-C	5.38	117.47	110.53
1	aE	54	THR	CA-C-N	5.38	127.81	120.54
1	aE	54	THR	C-N-CA	5.38	127.81	120.54
1	aX	114	GLN	N-CA-C	5.38	117.23	111.36
1	b3	12	HIS	CG-CD2-NE2	5.38	112.58	107.20
1	16	34	PRO	CA-C-N	5.38	127.93	120.29
1	16	34	PRO	C-N-CA	5.38	127.93	120.29
1	bh	53	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	bk	176	GLN	CA-C-N	5.38	128.88	120.75
1	bk	176	GLN	C-N-CA	5.38	128.88	120.75
1	bm	188	THR	N-CA-CB	5.38	119.59	110.49
1	bx	229	ARG	N-CA-CB	5.38	118.06	110.36
1	bC	69	LEU	O-C-N	-5.38	116.01	122.15
1	bV	180	GLU	CA-C-N	5.38	127.83	120.46
1	bV	180	GLU	C-N-CA	5.38	127.83	120.46
1	c5	150	ILE	CA-CB-CG1	5.38	119.55	110.40
1	cb	214	MET	O-C-N	-5.38	116.41	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cd	181	VAL	CB-CA-C	5.38	119.41	112.14
1	cp	21	ASN	N-CA-C	5.38	117.15	111.28
1	cy	161	PHE	CA-CB-CG	-5.38	108.42	113.80
1	cT	186	THR	CA-C-O	5.38	126.47	120.82
1	d2	84	HIS	CA-C-O	5.38	127.08	121.00
1	de	206	GLY	O-C-N	-5.38	116.39	121.77
1	do	184	TRP	CG-CD2-CE3	-5.38	128.52	133.90
1	dq	184	TRP	N-CA-C	5.38	116.83	111.07
1	dJ	131	LYS	N-CA-C	5.38	117.15	111.28
1	dW	143	ARG	CA-C-N	5.38	127.49	120.28
1	dW	143	ARG	C-N-CA	5.38	127.49	120.28
1	ed	133	TRP	CB-CG-CD2	-5.38	119.26	126.80
1	eg	70	LYS	N-CA-C	5.38	118.06	111.82
1	eo	7	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	ev	6	LEU	CA-C-N	5.38	130.21	122.35
1	ev	6	LEU	C-N-CA	5.38	130.21	122.35
1	ev	121	ASN	CA-CB-CG	-5.38	107.22	112.60
1	eI	132	ARG	N-CA-C	5.38	116.83	111.07
1	eY	42	ALA	CA-C-N	5.38	128.03	120.28
1	eY	42	ALA	C-N-CA	5.38	128.03	120.28
1	1v	216	THR	N-CA-CB	5.38	118.67	110.44
1	fe	75	GLU	N-CA-C	5.38	117.15	111.28
1	fk	173	ARG	NH1-CZ-NH2	-5.38	112.30	119.30
1	fx	84	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	fA	172	LEU	O-C-N	-5.38	115.92	122.22
1	fF	17	PRO	O-C-N	5.38	129.54	122.27
1	fH	50	GLN	CB-CA-C	5.38	119.73	110.79
1	fS	102	SER	N-CA-C	-5.38	105.58	111.82
1	c	164	TYR	CA-CB-CG	5.38	123.59	113.90
1	p	179	GLN	CA-C-N	5.38	127.93	120.29
1	p	179	GLN	C-N-CA	5.38	127.93	120.29
1	y	63	GLN	N-CA-C	5.38	117.15	111.28
1	O	131	LYS	CA-C-O	-5.38	114.84	120.55
1	g9	126	VAL	CA-C-N	5.38	125.95	119.98
1	g9	126	VAL	C-N-CA	5.38	125.95	119.98
1	gb	23	TRP	N-CA-CB	-5.38	101.92	109.94
1	gm	182	LYS	O-C-N	-5.38	116.42	122.12
1	gz	100	ARG	CA-C-O	-5.38	115.59	121.89
1	gG	82	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	gH	183	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	1F	92	GLU	N-CA-C	5.38	120.25	113.25
1	hh	71	GLU	N-CA-C	5.38	117.90	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hj	84	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	hs	155	GLN	CG-CD-NE2	5.38	124.47	116.40
1	ht	84	HIS	CA-C-O	-5.38	114.38	119.55
1	hx	133	TRP	CG-CD2-CE3	5.38	139.28	133.90
1	hJ	209	ALA	O-C-N	-5.38	116.25	122.87
1	hM	146	SER	N-CA-C	5.38	120.80	113.16
1	hP	181	VAL	CB-CA-C	-5.38	104.81	111.70
1	hX	171	THR	CA-C-O	5.38	126.25	120.55
1	i3	67	GLN	CA-C-O	5.38	126.25	120.55
1	i3	135	ILE	O-C-N	-5.38	115.72	121.80
1	ic	123	PRO	N-CA-CB	5.38	108.90	103.25
1	ik	226	HIS	CA-C-O	-5.38	115.17	120.82
1	in	227	LYS	O-C-N	-5.38	116.38	123.16
1	iR	92	GLU	CA-C-O	-5.38	115.19	119.71
1	j0	91	ILE	CA-CB-CG1	5.38	119.55	110.40
1	jh	209	ALA	CA-C-O	-5.38	115.27	121.19
1	jq	195	ASN	CA-C-O	-5.38	115.09	120.63
1	jN	124	ILE	CB-CA-C	-5.38	104.55	110.52
1	jY	201	ILE	O-C-N	-5.38	114.69	122.12
1	1Z	73	ILE	CA-C-N	5.38	127.44	120.44
1	1Z	73	ILE	C-N-CA	5.38	127.44	120.44
1	1Z	78	ALA	O-C-N	5.38	127.82	122.12
1	k5	1	PRO	CB-CA-C	5.38	120.32	110.10
1	k5	82	ARG	CA-C-O	5.38	126.12	120.42
1	ke	229	ARG	N-CA-CB	5.38	119.58	110.49
1	21	202	LEU	CA-C-N	5.38	127.75	120.38
1	21	202	LEU	C-N-CA	5.38	127.75	120.38
1	kl	14	ALA	O-C-N	-5.38	116.25	122.87
1	kl	37	ILE	CA-C-N	5.38	126.57	119.84
1	kl	37	ILE	C-N-CA	5.38	126.57	119.84
1	ko	82	ARG	N-CA-C	5.38	117.15	111.28
1	kp	2	ILE	N-CA-CB	-5.38	104.85	110.72
1	ku	169	TYR	N-CA-C	5.38	116.83	111.07
1	kx	17	PRO	CB-CA-C	-5.38	104.21	111.85
1	kD	134	ILE	CA-C-N	5.38	127.34	120.56
1	kD	134	ILE	C-N-CA	5.38	127.34	120.56
1	kP	169	TYR	CA-C-O	-5.38	112.64	119.31
1	kT	39	MET	N-CA-C	5.38	116.83	111.07
1	kV	197	ASP	CA-C-O	-5.38	114.85	120.55
1	l1	81	ASP	CA-CB-CG	5.38	117.98	112.60
1	l7	44	SER	N-CA-C	5.38	117.15	111.28
1	26	80	TRP	CB-CA-C	-5.38	101.86	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	226	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	lo	32	PHE	CA-CB-CG	-5.38	108.42	113.80
1	2d	95	GLN	O-C-N	-5.38	117.03	123.06
1	2j	54	THR	N-CA-CB	5.38	117.81	110.01
1	2q	21	ASN	CA-CB-CG	-5.38	107.22	112.60
1	2u	179	GLN	CA-CB-CG	5.38	124.86	114.10
1	2V	193	ASN	N-CA-C	-5.38	105.42	112.41
1	2W	144	MET	N-CA-CB	5.38	118.13	110.06
1	33	126	VAL	N-CA-C	5.38	117.82	111.09
1	3n	114	GLN	N-CA-C	5.38	117.15	111.28
1	3C	158	LYS	N-CA-CB	-5.38	102.39	110.73
1	3O	72	THR	CA-C-N	5.38	127.83	120.46
1	3O	72	THR	C-N-CA	5.38	127.83	120.46
1	3O	132	ARG	CA-C-N	5.38	127.49	120.28
1	3O	132	ARG	C-N-CA	5.38	127.49	120.28
1	3S	17	PRO	CA-C-N	5.38	127.44	120.44
1	3S	17	PRO	C-N-CA	5.38	127.44	120.44
1	3V	35	GLU	CA-C-N	5.38	127.83	120.46
1	3V	35	GLU	C-N-CA	5.38	127.83	120.46
1	3X	15	ILE	N-CA-C	5.38	120.53	109.34
1	3Z	155	GLN	CA-C-O	5.38	127.19	121.16
1	46	138	LEU	O-C-N	-5.38	116.53	122.07
1	49	177	ALA	O-C-N	-5.38	116.16	123.15
1	4m	94	GLY	CA-C-O	5.38	124.94	118.97
1	4n	219	GLN	CB-CG-CD	5.38	121.75	112.60
1	4p	84	HIS	CB-CG-CD2	-5.38	124.20	131.20
1	4r	88	ALA	CA-C-N	5.38	130.32	121.87
1	4r	88	ALA	C-N-CA	5.38	130.32	121.87
1	4t	180	GLU	N-CA-C	5.38	117.15	111.28
1	4v	182	LYS	N-CA-C	5.38	117.14	111.28
1	4D	65	ALA	N-CA-C	5.38	117.15	111.28
1	4J	159	GLU	O-C-N	-5.38	115.40	121.43
1	4J	197	ASP	CA-CB-CG	5.38	117.98	112.60
1	4L	133	TRP	CA-C-O	5.38	126.47	120.82
1	4O	203	LYS	N-CA-CB	5.38	118.03	110.12
1	4Q	95	GLN	CB-CA-C	5.38	118.95	111.63
1	5a	213	GLU	CA-C-N	5.38	127.44	120.44
1	5a	213	GLU	C-N-CA	5.38	127.44	120.44
1	5b	103	ASP	CA-CB-CG	5.38	117.98	112.60
1	5e	29	GLU	N-CA-C	5.38	116.95	111.14
1	5m	184	TRP	CB-CG-CD1	-5.38	118.83	126.90
1	5n	15	ILE	N-CA-CB	5.38	117.34	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5o	15	ILE	CB-CA-C	5.38	118.71	111.28
1	5r	214	MET	N-CA-C	-5.38	105.45	112.23
1	5J	181	VAL	CA-C-N	5.38	127.49	120.28
1	5J	181	VAL	C-N-CA	5.38	127.49	120.28
1	5P	82	ARG	CA-C-O	-5.38	114.82	120.63
1	61	36	VAL	CA-C-O	5.38	126.56	120.85
1	63	193	ASN	CB-CG-OD1	5.38	131.56	120.80
1	6h	225	GLY	O-C-N	-5.38	115.70	122.70
1	6S	88	ALA	O-C-N	-5.38	115.84	122.25
1	7u	208	ALA	CA-C-N	5.38	128.51	120.87
1	7u	208	ALA	C-N-CA	5.38	128.51	120.87
1	7y	3	VAL	CA-CB-CG2	-5.38	101.25	110.40
1	7B	57	ASN	CA-C-N	5.38	127.44	120.44
1	7B	57	ASN	C-N-CA	5.38	127.44	120.44
1	7G	136	LEU	O-C-N	-5.38	116.42	122.12
1	7K	189	LEU	CA-C-N	5.38	127.80	120.54
1	7K	189	LEU	C-N-CA	5.38	127.80	120.54
1	7M	193	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	80	160	PRO	O-C-N	-5.38	116.06	122.89
1	85	18	ARG	CB-CG-CD	5.38	123.68	111.30
1	86	187	GLU	CA-C-O	5.38	125.90	119.60
1	8b	163	ASP	O-C-N	5.38	128.52	122.22
1	8g	47	ALA	N-CA-C	5.38	118.09	110.50
1	8i	177	ALA	CA-C-N	5.38	131.82	121.54
1	8i	177	ALA	C-N-CA	5.38	131.82	121.54
1	8m	133	TRP	CB-CG-CD2	-5.38	119.27	126.80
1	8p	68	MET	CG-SD-CE	-5.38	89.06	100.90
1	8s	26	VAL	O-C-N	-5.38	116.64	121.91
1	8u	37	ILE	CA-C-N	5.38	126.57	119.84
1	8u	37	ILE	C-N-CA	5.38	126.57	119.84
1	8A	131	LYS	O-C-N	-5.38	116.42	122.12
1	8G	95	GLN	CG-CD-NE2	5.38	124.47	116.40
1	8I	67	GLN	N-CA-C	5.38	117.15	111.28
1	8O	89	GLY	CA-C-N	5.38	126.57	119.84
1	8O	89	GLY	C-N-CA	5.38	126.57	119.84
1	8U	213	GLU	N-CA-C	5.38	117.22	111.36
1	90	76	GLU	CA-C-O	5.38	126.12	120.42
1	9h	183	ASN	N-CA-C	5.38	119.56	112.89
1	9E	67	GLN	CB-CG-CD	5.38	121.75	112.60
1	9G	196	PRO	CA-N-CD	-5.38	104.47	112.00
1	9J	166	ASP	CA-CB-CG	5.38	117.98	112.60
1	9X	230	VAL	O-C-N	-5.38	116.38	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a2	188	THR	CB-CA-C	-5.38	100.76	110.23
1	a4	139	ASN	CA-CB-CG	5.38	117.98	112.60
1	a7	50	GLN	CA-C-N	5.38	127.93	120.29
1	a7	50	GLN	C-N-CA	5.38	127.93	120.29
1	aa	58	THR	CA-C-O	-5.38	113.26	119.56
1	aw	205	LEU	CA-C-N	5.38	130.32	121.87
1	aw	205	LEU	C-N-CA	5.38	130.32	121.87
1	aG	131	LYS	CA-C-O	5.38	126.44	120.63
1	aL	168	PHE	N-CA-C	5.38	117.15	111.28
1	b0	142	VAL	CA-C-N	5.38	127.80	120.54
1	b0	142	VAL	C-N-CA	5.38	127.80	120.54
1	ba	112	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	be	82	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	bs	114	GLN	CA-C-N	5.38	127.83	120.46
1	bs	114	GLN	C-N-CA	5.38	127.83	120.46
1	bJ	221	VAL	N-CA-C	5.38	118.28	109.78
1	bM	5	ASN	CA-C-O	5.38	128.21	120.51
1	c0	101	GLY	CA-C-N	5.38	127.49	120.28
1	c0	101	GLY	C-N-CA	5.38	127.49	120.28
1	c7	33	SER	O-C-N	-5.38	116.81	121.71
1	cc	183	ASN	CA-CB-CG	5.38	117.98	112.60
1	ce	196	PRO	N-CA-C	5.38	123.56	112.47
1	1e	18	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	cz	117	TRP	CD2-CE3-CZ3	-5.38	111.60	118.60
1	cJ	192	GLN	CA-C-O	5.38	126.47	120.82
1	cL	219	GLN	N-CA-C	5.38	117.63	110.53
1	cO	78	ALA	O-C-N	-5.38	116.42	122.12
1	cO	226	HIS	N-CA-CB	5.38	119.58	110.49
1	cR	154	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	1h	19	THR	CA-C-O	5.38	126.47	120.82
1	cV	167	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	d1	151	LEU	N-CA-C	5.38	117.15	111.28
1	d9	84	HIS	ND1-CG-CD2	-5.38	100.72	106.10
1	do	87	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	1l	95	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	dT	12	HIS	O-C-N	-5.38	116.31	122.93
1	dT	114	GLN	N-CA-C	5.38	117.23	111.36
1	dV	183	ASN	N-CA-C	5.38	116.83	111.07
1	e0	91	ILE	CA-C-O	-5.38	114.97	121.54
1	e1	159	GLU	O-C-N	-5.38	115.40	121.43
1	eb	19	THR	CA-C-O	5.38	126.47	120.82
1	em	115	ILE	CA-C-O	5.38	126.55	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	er	160	PRO	O-C-N	-5.38	116.16	122.99
1	eE	117	TRP	CA-C-O	-5.38	114.72	120.42
1	eM	19	THR	CA-C-O	5.38	126.47	120.82
1	eS	108	THR	CA-C-O	5.38	125.65	119.35
1	eU	136	LEU	O-C-N	-5.38	116.42	122.12
1	eV	207	PRO	CA-C-N	-5.38	114.15	122.49
1	eV	207	PRO	C-N-CA	-5.38	114.15	122.49
1	f5	52	LEU	CA-C-O	5.38	126.12	120.42
1	f7	199	LYS	CA-C-O	5.38	126.44	120.63
1	fk	61	GLY	CA-C-N	5.38	130.00	122.36
1	fk	61	GLY	C-N-CA	5.38	130.00	122.36
1	fs	157	PRO	CB-CA-C	-5.38	102.68	111.56
1	fO	186	THR	N-CA-C	5.38	116.83	111.07
1	fZ	228	ALA	CA-C-N	5.38	128.75	121.05
1	fZ	228	ALA	C-N-CA	5.38	128.75	121.05
1	q	158	LYS	N-CA-C	-5.38	105.75	114.09
1	z	131	LYS	N-CA-C	5.38	118.06	111.82
1	F	90	PRO	O-C-N	5.38	129.72	122.89
1	5	115	ILE	N-CA-C	-5.38	105.13	111.00
1	1C	52	LEU	CA-C-N	5.38	127.49	120.28
1	1C	52	LEU	C-N-CA	5.38	127.49	120.28
1	gy	48	THR	CA-C-N	5.38	124.83	119.24
1	gy	48	THR	C-N-CA	5.38	124.83	119.24
1	h4	139	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	h9	195	ASN	CB-CG-ND2	5.38	124.47	116.40
1	hc	40	PHE	N-CA-C	5.38	117.14	111.28
1	hd	120	HIS	CB-CG-CD2	-5.38	124.21	131.20
1	hz	194	ALA	N-CA-C	5.38	117.27	110.33
1	hG	171	THR	CB-CA-C	-5.38	102.43	110.88
1	hR	68	MET	CA-C-N	5.38	127.49	120.28
1	hR	68	MET	C-N-CA	5.38	127.49	120.28
1	i9	146	SER	N-CA-CB	5.38	117.00	110.17
1	ih	102	SER	O-C-N	-5.38	115.93	122.22
1	ij	42	ALA	O-C-N	-5.38	115.04	122.46
1	im	215	MET	N-CA-C	-5.38	106.88	113.50
1	ip	105	ALA	CA-C-O	5.38	126.00	119.11
1	iO	112	GLN	O-C-N	-5.38	116.42	122.12
1	jg	210	THR	CA-CB-OG1	5.38	117.67	109.60
1	1Z	162	ARG	CA-CB-CG	5.38	124.86	114.10
1	ke	174	ALA	CA-C-N	5.38	128.49	120.90
1	ke	174	ALA	C-N-CA	5.38	128.49	120.90
1	kp	209	ALA	N-CA-C	5.38	118.39	109.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kQ	63	GLN	N-CA-C	5.38	117.22	111.36
1	l6	115	ILE	N-CA-C	5.38	116.11	110.62
1	28	167	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	2K	102	SER	CA-C-N	5.38	127.49	120.28
1	2K	102	SER	C-N-CA	5.38	127.49	120.28
1	2O	10	MET	CB-CA-C	5.38	118.16	110.04
1	31	81	ASP	CA-C-O	5.38	126.16	119.97
1	36	48	THR	CA-C-O	-5.38	114.84	120.70
1	3J	168	PHE	CA-C-N	5.38	127.43	120.44
1	3J	168	PHE	C-N-CA	5.38	127.43	120.44
1	3X	91	ILE	CA-C-O	5.38	127.02	121.05
1	4e	40	PHE	N-CA-C	5.38	120.25	111.37
1	4l	182	LYS	N-CA-C	5.38	117.14	111.28
1	4W	91	ILE	CB-CA-C	-5.38	104.79	111.08
1	4X	186	THR	CA-C-O	-5.38	115.17	120.82
1	5T	64	ALA	CA-C-O	5.38	126.21	120.24
1	63	186	THR	N-CA-C	5.38	117.22	111.36
1	6Q	117	TRP	CA-C-O	-5.38	112.07	119.12
1	6T	82	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	72	18	ARG	O-C-N	-5.38	116.42	122.12
1	7E	63	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	7K	24	VAL	N-CA-C	5.38	116.15	110.72
1	8F	18	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	8Q	148	THR	CA-C-N	5.38	128.87	120.75
1	8Q	148	THR	C-N-CA	5.38	128.87	120.75
1	94	191	VAL	CB-CA-C	-5.38	104.97	112.02
1	95	27	VAL	CA-C-O	-5.38	115.36	120.95
1	9g	22	ALA	O-C-N	-5.38	116.42	122.12
1	9n	17	PRO	N-CA-CB	5.38	109.20	103.39
1	9n	135	ILE	CB-CA-C	5.38	119.40	112.14
1	9G	206	GLY	CA-C-N	5.38	126.56	119.84
1	9G	206	GLY	C-N-CA	5.38	126.56	119.84
1	9J	117	TRP	N-CA-C	5.38	116.83	111.07
1	Y	66	MET	CB-CA-C	-5.38	101.70	110.85
1	9R	67	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	a9	87	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	ag	33	SER	CB-CA-C	-5.38	102.66	110.03
1	ai	199	LYS	O-C-N	-5.38	116.42	122.12
1	aI	227	LYS	CA-CB-CG	5.38	124.86	114.10
1	bi	157	PRO	CA-C-N	5.38	131.81	122.56
1	bi	157	PRO	C-N-CA	5.38	131.81	122.56
1	bx	119	THR	CA-CB-OG1	5.38	117.67	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	197	ASP	CA-C-N	5.38	127.80	120.54
1	bZ	197	ASP	C-N-CA	5.38	127.80	120.54
1	c2	174	ALA	N-CA-C	-5.38	106.64	114.12
1	cy	214	MET	N-CA-C	5.38	117.90	111.71
1	cI	175	GLU	CA-C-N	5.38	129.99	122.08
1	cI	175	GLU	C-N-CA	5.38	129.99	122.08
1	cN	86	VAL	N-CA-CB	5.38	119.17	110.13
1	cN	154	ARG	N-CA-CB	5.38	117.88	109.97
1	d9	102	SER	CB-CA-C	5.38	120.00	110.85
1	dv	34	PRO	N-CA-C	5.38	123.55	112.47
1	dv	148	THR	CA-C-N	5.38	128.87	120.75
1	dv	148	THR	C-N-CA	5.38	128.87	120.75
1	dw	97	ARG	CA-C-O	5.38	127.79	121.87
1	dD	174	ALA	CA-C-N	5.38	128.41	120.82
1	dD	174	ALA	C-N-CA	5.38	128.41	120.82
1	1n	63	GLN	CA-C-O	-5.38	112.76	119.38
1	e9	184	TRP	CA-C-N	5.38	127.49	120.28
1	e9	184	TRP	C-N-CA	5.38	127.49	120.28
1	ez	23	TRP	N-CA-C	5.38	116.83	111.07
1	fo	137	GLY	CA-C-N	5.38	127.75	120.38
1	fo	137	GLY	C-N-CA	5.38	127.75	120.38
1	ft	51	ASP	CA-C-N	5.38	127.80	120.54
1	ft	51	ASP	C-N-CA	5.38	127.80	120.54
1	fv	47	ALA	N-CA-CB	-5.38	102.17	110.56
1	fI	120	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	fK	75	GLU	CA-C-N	5.38	127.49	120.28
1	fK	75	GLU	C-N-CA	5.38	127.49	120.28
1	fK	186	THR	CA-CB-CG2	-5.38	101.35	110.50
1	fR	192	GLN	N-CA-C	5.38	118.31	111.69
1	g4	132	ARG	N-CA-C	5.38	117.14	111.28
1	o	181	VAL	CG1-CB-CG2	-5.38	98.96	110.80
1	H	66	MET	CA-C-N	5.38	127.93	120.29
1	H	66	MET	C-N-CA	5.38	127.93	120.29
1	N	160	PRO	CA-C-N	5.38	127.49	120.28
1	N	160	PRO	C-N-CA	5.38	127.49	120.28
1	N	171	THR	CA-CB-OG1	5.38	117.67	109.60
1	7	51	ASP	CB-CA-C	-5.38	102.43	110.88
1	g9	217	ALA	O-C-N	-5.38	116.66	122.79
1	ge	156	GLY	CA-C-O	-5.38	113.83	121.52
1	gi	104	ILE	CA-C-O	5.38	126.54	120.95
1	gj	55	MET	CA-C-O	5.38	126.47	120.82
1	gp	75	GLU	N-CA-CB	-5.38	102.06	109.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gE	44	SER	O-C-N	-5.38	115.85	122.25
1	gE	227	LYS	CB-CA-C	5.38	119.16	109.64
1	gM	26	VAL	CA-CB-CG1	5.38	119.54	110.40
1	1G	210	THR	CA-C-N	5.38	127.75	120.38
1	1G	210	THR	C-N-CA	5.38	127.75	120.38
1	he	83	LEU	N-CA-C	5.38	116.83	110.97
1	1I	96	MET	CG-SD-CE	-5.38	89.07	100.90
1	ht	200	THR	N-CA-C	5.38	117.14	111.28
1	hy	92	GLU	N-CA-C	5.38	117.31	109.84
1	hD	39	MET	N-CA-C	5.38	117.90	111.71
1	hR	21	ASN	CA-C-N	5.38	127.80	120.54
1	hR	21	ASN	C-N-CA	5.38	127.80	120.54
1	i9	162	ARG	N-CA-C	5.38	118.06	111.82
1	ij	159	GLU	CA-C-N	5.38	125.38	119.89
1	ij	159	GLU	C-N-CA	5.38	125.38	119.89
1	ik	158	LYS	N-CA-CB	-5.38	102.21	110.44
1	in	41	SER	CA-C-N	5.38	127.43	120.44
1	in	41	SER	C-N-CA	5.38	127.43	120.44
1	iq	222	GLY	CA-C-N	5.38	130.31	121.87
1	iq	222	GLY	C-N-CA	5.38	130.31	121.87
1	is	228	ALA	CA-C-N	5.38	128.35	120.71
1	is	228	ALA	C-N-CA	5.38	128.35	120.71
1	iQ	90	PRO	N-CA-CB	5.38	108.03	103.19
1	1U	86	VAL	CB-CA-C	-5.38	104.16	111.15
1	ji	166	ASP	CA-C-N	5.38	127.43	120.44
1	ji	166	ASP	C-N-CA	5.38	127.43	120.44
1	jj	176	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	jl	213	GLU	O-C-N	5.38	127.61	122.07
1	jw	34	PRO	N-CA-CB	-5.38	98.10	103.48
1	jw	116	GLY	N-CA-C	5.38	120.58	113.37
1	jF	164	TYR	CA-C-O	5.38	125.99	119.11
1	k5	182	LYS	CA-C-N	5.38	127.43	120.44
1	k5	182	LYS	C-N-CA	5.38	127.43	120.44
1	kT	152	ASP	CA-CB-CG	-5.38	107.22	112.60
1	kY	8	GLY	CA-C-N	5.38	130.75	123.11
1	kY	8	GLY	C-N-CA	5.38	130.75	123.11
1	l0	24	VAL	CA-C-N	5.38	127.80	120.54
1	l0	24	VAL	C-N-CA	5.38	127.80	120.54
1	l5	166	ASP	CA-CB-CG	5.38	117.98	112.60
1	lj	71	GLU	N-CA-C	5.38	117.84	111.33
1	ls	36	VAL	O-C-N	5.38	127.09	121.87
1	2a	213	GLU	N-CA-C	5.38	117.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	81	ASP	N-CA-C	5.38	117.14	111.28
1	2s	165	VAL	O-C-N	5.38	127.18	121.91
1	2v	169	TYR	CA-C-N	5.38	127.49	120.28
1	2v	169	TYR	C-N-CA	5.38	127.49	120.28
1	2y	132	ARG	CB-CG-CD	5.38	123.67	111.30
1	2B	42	ALA	N-CA-C	5.38	117.14	111.28
1	2M	138	LEU	O-C-N	-5.38	116.42	122.12
1	2Y	62	HIS	CA-C-O	-5.38	114.88	121.28
1	39	30	LYS	CB-CA-C	-5.38	101.63	110.72
1	3e	14	ALA	N-CA-CB	-5.38	102.06	109.97
1	3i	42	ALA	CA-C-O	5.38	126.16	119.97
1	3i	124	ILE	O-C-N	5.38	126.25	121.57
1	3K	162	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	3Q	190	LEU	N-CA-CB	-5.38	102.21	110.12
1	3T	73	ILE	O-C-N	-5.38	116.56	121.94
1	3X	50	GLN	N-CA-C	5.38	117.14	111.28
1	42	215	MET	CG-SD-CE	-5.38	89.07	100.90
1	45	75	GLU	CA-C-N	5.38	127.49	120.28
1	45	75	GLU	C-N-CA	5.38	127.49	120.28
1	4a	20	LEU	CA-C-N	5.38	127.43	120.44
1	4a	20	LEU	C-N-CA	5.38	127.43	120.44
1	4c	194	ALA	CA-C-N	5.38	128.31	120.51
1	4c	194	ALA	C-N-CA	5.38	128.31	120.51
1	4e	191	VAL	CA-C-O	5.38	126.24	120.32
1	4z	228	ALA	CA-C-N	5.38	130.92	122.21
1	4z	228	ALA	C-N-CA	5.38	130.92	122.21
1	4H	175	GLU	CA-C-N	5.38	129.77	122.19
1	4H	175	GLU	C-N-CA	5.38	129.77	122.19
1	4O	153	ILE	O-C-N	-5.38	116.69	122.45
1	51	78	ALA	O-C-N	5.38	127.90	122.09
1	5e	140	LYS	CA-C-N	5.38	128.97	120.47
1	5e	140	LYS	C-N-CA	5.38	128.97	120.47
1	5q	63	GLN	N-CA-C	5.38	119.01	112.23
1	5z	221	VAL	N-CA-C	-5.38	100.00	107.80
1	5C	80	TRP	CB-CG-CD2	-5.38	119.27	126.80
1	5J	1	PRO	CA-C-N	5.38	129.33	121.80
1	5J	1	PRO	C-N-CA	5.38	129.33	121.80
1	5Y	228	ALA	CA-C-O	5.38	128.11	121.87
1	5Z	87	HIS	CA-CB-CG	5.38	119.18	113.80
1	6d	68	MET	CA-C-N	5.38	127.49	120.28
1	6d	68	MET	C-N-CA	5.38	127.49	120.28
1	6j	126	VAL	N-CA-C	5.38	120.53	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6x	196	PRO	CA-C-N	5.38	127.93	120.29
1	6x	196	PRO	C-N-CA	5.38	127.93	120.29
1	6z	82	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	6K	193	ASN	CA-CB-CG	-5.38	107.22	112.60
1	6N	110	THR	O-C-N	-5.38	116.92	122.94
1	6R	78	ALA	CA-C-N	5.38	127.93	120.29
1	6R	78	ALA	C-N-CA	5.38	127.93	120.29
1	6X	9	GLN	CA-C-O	5.38	127.25	121.55
1	6Y	103	ASP	CB-CA-C	-5.38	102.40	110.90
1	7c	183	ASN	CA-C-N	5.38	127.49	120.28
1	7c	183	ASN	C-N-CA	5.38	127.49	120.28
1	7h	140	LYS	CA-C-N	5.38	127.83	120.46
1	7h	140	LYS	C-N-CA	5.38	127.83	120.46
1	7l	77	ALA	CA-C-N	5.38	127.93	120.29
1	7l	77	ALA	C-N-CA	5.38	127.93	120.29
1	7v	195	ASN	CA-C-O	-5.38	114.42	119.80
1	7y	84	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	7D	79	GLU	CA-C-N	5.38	127.43	120.44
1	7D	79	GLU	C-N-CA	5.38	127.43	120.44
1	7G	107	THR	O-C-N	-5.38	115.04	122.30
1	7J	135	ILE	O-C-N	-5.38	116.29	121.83
1	7Q	91	ILE	O-C-N	-5.38	116.59	122.83
1	85	183	ASN	CA-C-O	-5.38	115.17	120.82
1	8d	216	THR	CA-CB-OG1	5.38	117.67	109.60
1	8o	13	GLN	N-CA-CB	5.38	120.19	110.83
1	8p	87	HIS	O-C-N	-5.38	115.44	122.59
1	8y	21	ASN	N-CA-C	5.38	117.22	111.36
1	8M	145	TYR	CA-C-O	-5.38	114.82	120.63
1	8O	148	THR	CB-CA-C	5.38	118.94	109.80
1	8P	104	ILE	CA-C-O	5.38	126.54	120.95
1	8W	84	HIS	CA-C-N	5.38	126.56	119.84
1	8W	84	HIS	C-N-CA	5.38	126.56	119.84
1	8Y	36	VAL	CA-C-N	5.38	124.63	120.33
1	8Y	36	VAL	C-N-CA	5.38	124.63	120.33
1	91	202	LEU	CA-C-N	5.38	127.43	120.44
1	91	202	LEU	C-N-CA	5.38	127.43	120.44
1	93	39	MET	CA-C-O	5.38	126.44	120.63
1	96	198	CYS	CA-C-N	5.38	127.49	120.28
1	96	198	CYS	C-N-CA	5.38	127.49	120.28
1	9a	162	ARG	N-CA-C	5.38	120.25	111.37
1	9d	51	ASP	O-C-N	-5.38	116.53	122.07
1	9h	77	ALA	N-CA-C	5.38	119.01	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	22	ALA	N-CA-C	5.38	117.22	111.36
1	9i	210	THR	O-C-N	-5.38	116.88	122.96
1	9k	103	ASP	CA-C-O	5.38	126.12	120.42
1	9q	137	GLY	CA-C-N	5.38	127.49	120.28
1	9q	137	GLY	C-N-CA	5.38	127.49	120.28
1	9t	65	ALA	CA-C-N	5.38	128.03	120.28
1	9t	65	ALA	C-N-CA	5.38	128.03	120.28
1	9w	100	ARG	NH1-CZ-NH2	5.38	126.29	119.30
1	9O	35	GLU	CB-CG-CD	-5.38	103.46	112.60
1	9S	186	THR	N-CA-CB	5.38	118.03	110.12
1	a8	99	PRO	N-CA-C	5.38	120.03	111.26
1	ab	183	ASN	CA-CB-CG	-5.38	107.22	112.60
1	ae	12	HIS	CG-CD2-NE2	5.38	112.58	107.20
1	aq	47	ALA	N-CA-C	5.38	118.11	110.10
1	az	71	GLU	CB-CA-C	-5.38	101.86	110.79
1	aF	62	HIS	CA-CB-CG	5.38	119.18	113.80
1	aK	52	LEU	N-CA-C	5.38	117.14	111.28
1	aV	142	VAL	O-C-N	5.38	127.09	121.87
1	b4	169	TYR	CA-C-N	5.38	127.93	120.29
1	b4	169	TYR	C-N-CA	5.38	127.93	120.29
1	b7	74	ASN	N-CA-C	5.38	117.84	111.33
1	b8	74	ASN	CA-CB-CG	-5.38	107.22	112.60
1	bf	162	ARG	CA-C-O	-5.38	115.17	120.82
1	bf	167	ARG	CA-C-N	5.38	128.27	120.79
1	bf	167	ARG	C-N-CA	5.38	128.27	120.79
1	br	193	ASN	CA-C-N	5.38	129.38	120.94
1	br	193	ASN	C-N-CA	5.38	129.38	120.94
1	bD	159	GLU	CA-C-N	5.38	126.56	119.84
1	bD	159	GLU	C-N-CA	5.38	126.56	119.84
1	bR	53	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	bR	100	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	bS	63	GLN	N-CA-C	5.38	116.82	111.07
1	bW	90	PRO	O-C-N	5.38	129.42	122.91
1	bX	31	ALA	CB-CA-C	-5.38	100.68	110.63
1	c2	94	GLY	CA-C-N	5.38	128.35	120.71
1	c2	94	GLY	C-N-CA	5.38	128.35	120.71
1	c8	184	TRP	CA-C-N	5.38	127.75	120.38
1	c8	184	TRP	C-N-CA	5.38	127.75	120.38
1	ck	74	ASN	N-CA-CB	5.38	117.81	110.01
1	co	110	THR	CA-C-O	-5.38	115.70	121.56
1	cQ	42	ALA	N-CA-C	5.38	117.14	111.28
1	cX	230	VAL	O-C-N	-5.38	115.85	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	139	ASN	CA-C-O	5.38	126.16	119.97
1	dg	53	ASN	CA-C-N	5.38	127.43	120.44
1	dg	53	ASN	C-N-CA	5.38	127.43	120.44
1	dl	202	LEU	N-CA-CB	5.38	117.81	110.01
1	dn	25	LYS	N-CA-C	5.38	119.10	112.54
1	dr	207	PRO	N-CA-CB	-5.38	98.35	103.41
1	ds	109	SER	N-CA-CB	5.38	119.35	110.69
1	dt	228	ALA	N-CA-CB	-5.38	102.12	110.46
1	du	29	GLU	N-CA-C	5.38	116.83	111.07
1	dM	168	PHE	N-CA-C	5.38	117.56	111.11
1	dR	23	TRP	CA-CB-CG	5.38	123.82	113.60
1	1n	33	SER	O-C-N	-5.38	116.78	121.35
1	1n	133	TRP	O-C-N	-5.38	116.53	122.07
1	dS	150	ILE	CA-C-O	-5.38	115.36	120.95
1	1o	180	GLU	O-C-N	-5.38	116.42	122.12
1	e9	47	ALA	O-C-N	-5.38	115.94	122.82
1	1q	32	PHE	CA-C-O	-5.38	114.57	120.70
1	eq	205	LEU	O-C-N	5.38	127.82	122.12
1	es	154	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	et	141	ILE	CA-C-O	-5.38	115.36	120.95
1	ew	48	THR	CA-C-O	-5.38	113.55	121.46
1	ez	159	GLU	N-CA-C	5.38	117.22	109.04
1	eO	54	THR	CA-C-N	5.38	127.49	120.28
1	eO	54	THR	C-N-CA	5.38	127.49	120.28
1	eW	223	GLY	CA-C-N	5.38	126.56	119.84
1	eW	223	GLY	C-N-CA	5.38	126.56	119.84
1	f1	42	ALA	N-CA-C	5.38	117.14	111.28
1	fj	122	PRO	N-CA-CB	5.38	108.52	102.60
1	fz	58	THR	N-CA-C	5.38	119.01	112.23
1	fA	62	HIS	CA-C-N	5.38	127.43	120.44
1	fA	62	HIS	C-N-CA	5.38	127.43	120.44
1	fD	83	LEU	N-CA-CB	-5.38	101.94	110.22
1	fG	59	VAL	CB-CA-C	-5.38	103.55	112.26
1	g2	17	PRO	CB-CA-C	-5.38	104.21	111.85
1	1B	160	PRO	CB-CA-C	5.38	118.28	111.39
1	c	120	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	k	50	GLN	O-C-N	-5.38	116.53	122.07
1	k	97	ARG	O-C-N	-5.38	116.66	122.79
1	m	186	THR	N-CA-CB	5.38	118.62	110.28
1	q	87	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	v	149	SER	N-CA-C	5.38	118.83	110.17
1	y	168	PHE	CA-C-O	5.38	126.25	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	195	ASN	CA-CB-CG	-5.38	107.22	112.60
1	M	161	PHE	CA-C-N	5.38	127.49	120.28
1	M	161	PHE	C-N-CA	5.38	127.49	120.28
1	O	138	LEU	O-C-N	5.38	127.82	122.12
1	O	200	THR	N-CA-CB	5.38	117.81	110.01
1	T	4	GLN	CB-CA-C	5.38	118.59	109.50
1	7	114	GLN	CA-C-N	5.38	129.12	120.30
1	7	114	GLN	C-N-CA	5.38	129.12	120.30
1	gc	227	LYS	CB-CG-CD	5.38	123.67	111.30
1	gg	183	ASN	N-CA-C	5.38	117.14	111.28
1	1C	38	PRO	CB-CA-C	5.38	120.61	112.55
1	go	20	LEU	CB-CA-C	-5.38	102.44	110.88
1	go	114	GLN	O-C-N	-5.38	116.42	122.12
1	gq	64	ALA	CA-C-N	5.38	127.48	120.28
1	gq	64	ALA	C-N-CA	5.38	127.48	120.28
1	gt	53	ASN	CA-CB-CG	-5.38	107.22	112.60
1	gA	125	PRO	CB-CA-C	5.38	120.33	112.64
1	gN	68	MET	CA-C-N	5.38	127.48	120.28
1	gN	68	MET	C-N-CA	5.38	127.48	120.28
1	gN	89	GLY	CA-C-N	5.38	125.68	119.93
1	gN	89	GLY	C-N-CA	5.38	125.68	119.93
1	gZ	84	HIS	CA-C-N	5.38	126.56	119.84
1	gZ	84	HIS	C-N-CA	5.38	126.56	119.84
1	h1	44	SER	N-CA-C	5.38	117.33	110.61
1	h4	165	VAL	N-CA-C	5.38	117.77	111.05
1	h5	132	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	h7	184	TRP	CB-CG-CD1	-5.38	118.83	126.90
1	hb	108	THR	CA-C-O	5.38	127.06	120.55
1	1I	203	LYS	CA-C-N	5.38	127.92	120.29
1	1I	203	LYS	C-N-CA	5.38	127.92	120.29
1	hw	22	ALA	CB-CA-C	-5.38	102.44	110.88
1	hz	99	PRO	N-CA-CB	-5.38	98.34	103.39
1	hC	86	VAL	N-CA-C	5.38	116.63	109.37
1	hI	30	LYS	O-C-N	-5.38	115.89	122.34
1	hM	226	HIS	O-C-N	-5.38	116.26	122.87
1	hU	86	VAL	O-C-N	-5.38	115.85	122.57
1	hY	37	ILE	O-C-N	-5.38	116.98	120.42
1	i2	26	VAL	CA-CB-CG2	5.38	119.54	110.40
1	i3	46	GLY	CA-C-N	5.38	128.87	120.75
1	i3	46	GLY	C-N-CA	5.38	128.87	120.75
1	i9	162	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	ik	35	GLU	CA-C-N	5.38	127.83	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ik	35	GLU	C-N-CA	5.38	127.83	120.46
1	in	67	GLN	N-CA-CB	5.38	117.86	110.07
1	io	119	THR	N-CA-C	5.38	117.14	111.28
1	ip	133	TRP	CA-C-O	5.38	126.25	120.55
1	ir	132	ARG	N-CA-CB	5.38	118.02	110.12
1	iS	90	PRO	CA-C-N	5.38	131.65	121.97
1	iS	90	PRO	C-N-CA	5.38	131.65	121.97
1	j3	93	PRO	N-CA-C	5.38	119.64	111.15
1	1U	186	THR	CA-CB-OG1	5.38	117.67	109.60
1	jk	156	GLY	CA-C-O	-5.38	113.83	121.52
1	jp	226	HIS	CB-CG-ND1	5.38	130.76	122.70
1	jB	31	ALA	O-C-N	-5.38	115.04	122.46
1	jB	93	PRO	CB-CA-C	5.38	118.39	111.56
1	jN	32	PHE	CA-CB-CG	-5.38	108.42	113.80
1	jR	62	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	jT	96	MET	N-CA-CB	5.38	117.94	110.04
1	jX	70	LYS	N-CA-CB	-5.38	102.22	110.12
1	jX	80	TRP	CA-C-O	5.38	126.46	120.82
1	k1	167	ARG	N-CA-CB	5.38	118.02	110.12
1	ke	67	GLN	N-CA-CB	5.38	118.12	110.16
1	ks	55	MET	CA-C-N	5.38	127.80	120.54
1	ks	55	MET	C-N-CA	5.38	127.80	120.54
1	kA	52	LEU	CA-C-N	5.38	127.92	120.29
1	kA	52	LEU	C-N-CA	5.38	127.92	120.29
1	kH	46	GLY	CA-C-N	5.38	128.87	120.75
1	kH	46	GLY	C-N-CA	5.38	128.87	120.75
1	kQ	69	LEU	CA-C-O	-5.38	115.17	120.82
1	kW	62	HIS	ND1-CG-CD2	5.38	111.48	106.10
1	l5	88	ALA	CA-C-N	5.38	130.31	121.87
1	l5	88	ALA	C-N-CA	5.38	130.31	121.87
1	l6	129	ILE	CA-C-N	5.38	127.43	120.44
1	l6	129	ILE	C-N-CA	5.38	127.43	120.44
1	27	77	ALA	CA-C-N	5.38	127.48	120.28
1	27	77	ALA	C-N-CA	5.38	127.48	120.28
1	ln	105	ALA	N-CA-CB	-5.38	102.69	110.70
1	lr	173	ARG	N-CA-C	5.38	117.83	111.33
1	lz	173	ARG	CB-CG-CD	5.38	123.67	111.30
1	lz	215	MET	N-CA-C	5.38	119.55	113.15
1	2h	188	THR	CA-C-N	5.38	127.48	120.28
1	2h	188	THR	C-N-CA	5.38	127.48	120.28
1	2i	23	TRP	CE3-CZ3-CH2	-5.38	114.11	121.10
1	2j	150	ILE	CA-C-O	5.38	126.09	119.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	97	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	2T	12	HIS	CB-CG-CD2	-5.38	124.21	131.20
1	32	78	ALA	N-CA-C	5.38	117.14	111.28
1	3f	161	PHE	CA-C-N	5.38	127.43	120.44
1	3f	161	PHE	C-N-CA	5.38	127.43	120.44
1	3h	164	TYR	N-CA-C	5.38	118.06	111.82
1	3o	211	LEU	CA-C-N	5.38	127.80	120.54
1	3o	211	LEU	C-N-CA	5.38	127.80	120.54
1	3y	123	PRO	N-CA-C	5.38	123.54	112.47
1	3y	141	ILE	CA-C-O	-5.38	115.08	121.05
1	3D	124	ILE	CA-C-O	-5.38	115.98	119.15
1	3N	229	ARG	CD-NE-CZ	5.38	131.93	124.40
1	3Q	141	ILE	CA-CB-CG1	5.38	119.54	110.40
1	48	124	ILE	N-CA-CB	-5.38	104.62	111.23
1	4n	55	MET	CA-C-O	5.38	126.44	120.63
1	4s	89	GLY	CA-C-N	5.38	126.56	119.84
1	4s	89	GLY	C-N-CA	5.38	126.56	119.84
1	4s	134	ILE	N-CA-C	5.38	115.58	110.42
1	4B	136	LEU	N-CA-C	5.38	117.14	111.28
1	4C	69	LEU	CA-C-N	5.38	127.48	120.28
1	4C	69	LEU	C-N-CA	5.38	127.48	120.28
1	4D	125	PRO	N-CD-CG	5.38	111.27	103.20
1	4O	164	TYR	CG-CD1-CE1	-5.38	113.14	121.20
1	4X	18	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	4Y	4	GLN	CA-C-O	5.38	127.65	121.47
1	59	223	GLY	O-C-N	-5.38	116.39	121.77
1	5a	212	GLU	N-CA-C	5.38	117.56	111.11
1	5b	191	VAL	CB-CA-C	-5.38	104.80	112.22
1	5t	68	MET	CA-C-N	5.38	127.80	120.54
1	5t	68	MET	C-N-CA	5.38	127.80	120.54
1	5u	20	LEU	N-CA-C	5.38	116.82	111.07
1	5C	131	LYS	CA-C-O	5.38	126.25	120.55
1	5E	198	CYS	CA-C-O	-5.38	114.27	120.24
1	5I	129	ILE	CA-CB-CG2	5.38	119.64	110.50
1	5M	176	GLN	CA-C-O	5.38	125.99	119.11
1	5Q	67	GLN	OE1-CD-NE2	-5.38	117.22	122.60
1	61	47	ALA	N-CA-C	5.38	118.99	109.96
1	64	206	GLY	CA-C-N	5.38	126.56	119.84
1	64	206	GLY	C-N-CA	5.38	126.56	119.84
1	68	8	GLY	CA-C-N	5.38	128.87	120.75
1	68	8	GLY	C-N-CA	5.38	128.87	120.75
1	6f	158	LYS	O-C-N	-5.38	115.23	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6k	55	MET	O-C-N	-5.38	116.53	122.07
1	6n	13	GLN	CB-CG-CD	-5.38	103.46	112.60
1	6n	191	VAL	N-CA-C	5.38	119.29	113.43
1	6z	162	ARG	NE-CZ-NH2	5.38	124.04	119.20
1	6N	58	THR	N-CA-C	5.38	117.83	111.33
1	6Z	82	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	73	72	THR	N-CA-CB	5.38	117.95	109.94
1	7c	171	THR	CA-C-N	5.38	128.02	120.28
1	7c	171	THR	C-N-CA	5.38	128.02	120.28
1	7c	173	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	7i	58	THR	CA-C-N	5.38	131.65	121.97
1	7i	58	THR	C-N-CA	5.38	131.65	121.97
1	7v	37	ILE	CA-C-O	-5.38	114.28	118.85
1	7F	217	ALA	N-CA-C	5.38	118.14	110.24
1	7L	103	ASP	N-CA-C	5.38	118.06	111.82
1	81	149	SER	N-CA-C	5.38	117.81	110.55
1	81	152	ASP	CA-C-N	5.38	128.29	120.98
1	81	152	ASP	C-N-CA	5.38	128.29	120.98
1	8a	184	TRP	CA-C-O	-5.38	113.79	119.97
1	8b	37	ILE	CA-C-O	-5.38	112.75	119.95
1	8d	146	SER	CA-C-N	5.38	125.45	119.32
1	8d	146	SER	C-N-CA	5.38	125.45	119.32
1	8g	99	PRO	N-CA-C	5.38	119.31	110.55
1	8p	203	LYS	CA-C-O	5.38	126.13	119.79
1	8s	214	MET	N-CA-CB	5.38	117.81	110.01
1	8t	146	SER	CA-C-N	5.38	126.56	119.84
1	8t	146	SER	C-N-CA	5.38	126.56	119.84
1	8x	64	ALA	CA-C-N	5.38	127.43	120.44
1	8x	64	ALA	C-N-CA	5.38	127.43	120.44
1	8O	120	HIS	N-CA-CB	-5.38	102.94	110.25
1	8P	77	ALA	CA-C-N	5.38	127.43	120.44
1	8P	77	ALA	C-N-CA	5.38	127.43	120.44
1	8U	12	HIS	CB-CG-CD2	5.38	138.19	131.20
1	95	14	ALA	O-C-N	-5.38	116.33	122.89
1	97	5	ASN	CA-CB-CG	5.38	117.98	112.60
1	97	88	ALA	CA-C-N	5.38	130.31	121.87
1	97	88	ALA	C-N-CA	5.38	130.31	121.87
1	9f	6	LEU	N-CA-CB	-5.38	101.95	110.28
1	9i	150	ILE	CA-CB-CG1	5.38	119.54	110.40
1	9j	40	PHE	CA-CB-CG	5.38	119.18	113.80
1	9q	130	TYR	CA-C-N	5.38	127.43	120.44
1	9q	130	TYR	C-N-CA	5.38	127.43	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9D	100	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	a4	59	VAL	CA-C-O	-5.38	115.15	120.85
1	a6	173	ARG	O-C-N	-5.38	116.42	122.12
1	a9	162	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	ai	181	VAL	N-CA-C	5.38	115.58	110.42
1	av	191	VAL	O-C-N	-5.38	115.72	121.80
1	aB	157	PRO	CA-C-N	5.38	130.99	122.60
1	aB	157	PRO	C-N-CA	5.38	130.99	122.60
1	13	57	ASN	CA-C-N	5.38	127.48	120.28
1	13	57	ASN	C-N-CA	5.38	127.48	120.28
1	aI	229	ARG	CA-C-O	5.38	125.94	119.59
1	aO	173	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	aP	50	GLN	OE1-CD-NE2	5.38	127.98	122.60
1	aT	168	PHE	CB-CA-C	5.38	119.71	110.79
1	aW	132	ARG	CB-CA-C	-5.38	102.44	110.88
1	b6	167	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	b6	167	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	17	64	ALA	CA-C-N	5.38	127.92	120.29
1	17	64	ALA	C-N-CA	5.38	127.92	120.29
1	bi	177	ALA	CA-C-N	5.38	129.32	121.31
1	bi	177	ALA	C-N-CA	5.38	129.32	121.31
1	bk	43	LEU	CA-C-N	5.38	131.81	122.56
1	bk	43	LEU	C-N-CA	5.38	131.81	122.56
1	bl	12	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	bm	80	TRP	N-CA-C	5.38	117.14	111.28
1	bu	81	ASP	N-CA-CB	-5.38	102.20	110.16
1	by	79	GLU	CA-C-O	-5.38	114.85	120.55
1	bB	58	THR	N-CA-CB	5.38	119.32	110.39
1	bC	18	ARG	CA-C-O	-5.38	114.72	120.42
1	bQ	84	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	1b	124	ILE	N-CA-CB	5.38	117.65	111.31
1	bW	69	LEU	CA-C-O	5.38	126.12	120.42
1	c2	82	ARG	NE-CZ-NH2	-5.38	114.36	119.20
1	c6	195	ASN	CB-CA-C	5.38	118.01	109.52
1	ci	152	ASP	CA-CB-CG	5.38	117.98	112.60
1	ck	39	MET	O-C-N	-5.38	116.42	122.12
1	1e	26	VAL	N-CA-C	5.38	116.15	110.72
1	cz	53	ASN	O-C-N	-5.38	116.53	122.07
1	cF	50	GLN	N-CA-C	5.38	118.63	111.75
1	cQ	6	LEU	N-CA-CB	-5.38	103.14	110.56
1	cY	41	SER	N-CA-C	5.38	116.82	111.07
1	1i	183	ASN	CA-C-N	5.38	127.48	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	183	ASN	C-N-CA	5.38	127.48	120.28
1	dd	76	GLU	O-C-N	-5.38	116.02	122.15
1	1k	167	ARG	CA-C-N	5.38	127.75	120.65
1	1k	167	ARG	C-N-CA	5.38	127.75	120.65
1	dt	61	GLY	CA-C-N	5.38	130.04	122.46
1	dt	61	GLY	C-N-CA	5.38	130.04	122.46
1	dx	41	SER	N-CA-CB	5.38	118.02	110.12
1	dK	194	ALA	CA-C-N	5.38	128.31	120.51
1	dK	194	ALA	C-N-CA	5.38	128.31	120.51
1	dM	20	LEU	O-C-N	-5.38	116.02	122.15
1	dQ	196	PRO	N-CA-C	5.38	123.55	112.47
1	dT	222	GLY	CA-C-N	5.38	128.24	121.36
1	dT	222	GLY	C-N-CA	5.38	128.24	121.36
1	dY	114	GLN	CA-C-N	5.38	127.33	120.56
1	dY	114	GLN	C-N-CA	5.38	127.33	120.56
1	e2	201	ILE	N-CA-C	5.38	116.86	111.00
1	e4	120	HIS	N-CA-C	5.38	117.47	110.43
1	e9	36	VAL	N-CA-C	5.38	118.59	111.17
1	ea	208	ALA	CA-C-N	5.38	128.87	120.75
1	ea	208	ALA	C-N-CA	5.38	128.87	120.75
1	1p	212	GLU	CA-C-O	5.38	126.25	120.55
1	eA	130	TYR	CA-C-N	5.38	127.43	120.44
1	eA	130	TYR	C-N-CA	5.38	127.43	120.44
1	eC	10	MET	N-CA-C	5.38	118.66	111.24
1	eK	57	ASN	CA-CB-CG	-5.38	107.22	112.60
1	eP	165	VAL	CA-C-N	5.38	127.43	120.44
1	eP	165	VAL	C-N-CA	5.38	127.43	120.44
1	eS	11	VAL	N-CA-C	-5.38	100.84	108.58
1	eT	162	ARG	N-CA-C	5.38	122.25	110.80
1	eU	28	GLU	N-CA-C	5.38	117.84	111.33
1	1u	59	VAL	CA-CB-CG1	5.38	119.54	110.40
1	fj	214	MET	O-C-N	-5.38	116.42	122.12
1	fn	150	ILE	CA-CB-CG1	5.38	119.54	110.40
1	fo	37	ILE	N-CA-C	5.38	119.39	112.67
1	fr	192	GLN	CB-CG-CD	-5.38	103.46	112.60
1	fA	110	THR	CA-C-N	5.38	127.43	120.44
1	fA	110	THR	C-N-CA	5.38	127.43	120.44
1	fG	142	VAL	CA-CB-CG2	5.38	119.54	110.40
1	fL	151	LEU	CA-C-O	-5.38	115.17	120.82
1	fT	217	ALA	CA-C-O	5.38	127.18	121.05
1	fU	154	ARG	O-C-N	-5.38	116.38	123.21
1	1A	30	LYS	CA-C-N	5.38	131.81	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	30	LYS	C-N-CA	5.38	131.81	121.54
1	1A	196	PRO	N-CD-CG	5.38	111.27	103.20
1	e	74	ASN	CA-C-N	5.38	128.48	120.31
1	e	74	ASN	C-N-CA	5.38	128.48	120.31
1	C	162	ARG	CG-CD-NE	-5.38	100.17	112.00
1	I	204	ALA	CB-CA-C	-5.38	101.71	110.85
1	J	166	ASP	CA-C-N	5.38	127.48	120.28
1	J	166	ASP	C-N-CA	5.38	127.48	120.28
1	ga	40	PHE	O-C-N	-5.38	116.42	122.12
1	gf	4	GLN	N-CA-C	5.38	118.02	110.23
1	gg	70	LYS	N-CA-CB	5.38	117.86	110.07
1	gk	8	GLY	CA-C-N	5.38	130.65	122.37
1	gk	8	GLY	C-N-CA	5.38	130.65	122.37
1	gm	79	GLU	CA-C-O	-5.38	114.72	120.42
1	1D	66	MET	N-CA-C	5.38	117.22	111.36
1	gt	136	LEU	CA-C-O	5.38	126.25	120.55
1	gD	25	LYS	N-CA-C	5.38	117.14	111.28
1	gW	167	ARG	CD-NE-CZ	5.38	131.93	124.40
1	h4	62	HIS	CB-CG-CD2	-5.38	124.21	131.20
1	h4	107	THR	OG1-CB-CG2	-5.38	98.55	109.30
1	h4	215	MET	N-CA-C	5.38	122.25	110.80
1	h7	58	THR	O-C-N	-5.38	116.42	122.12
1	hz	211	LEU	N-CA-C	5.38	117.14	111.28
1	hD	33	SER	CA-CB-OG	5.38	121.85	111.10
1	ic	189	LEU	N-CA-CB	-5.38	102.22	110.12
1	ig	190	LEU	O-C-N	-5.38	116.50	122.09
1	iv	22	ALA	O-C-N	-5.38	116.53	122.07
1	iB	137	GLY	CA-C-N	5.38	127.75	120.44
1	iB	137	GLY	C-N-CA	5.38	127.75	120.44
1	jg	2	ILE	CA-C-N	5.38	129.24	121.18
1	jg	2	ILE	C-N-CA	5.38	129.24	121.18
1	jW	82	ARG	CA-CB-CG	5.38	124.85	114.10
1	20	33	SER	CA-C-N	5.38	125.04	119.56
1	20	33	SER	C-N-CA	5.38	125.04	119.56
1	21	177	ALA	CA-C-N	5.38	128.72	120.82
1	21	177	ALA	C-N-CA	5.38	128.72	120.82
1	kT	212	GLU	N-CA-C	5.38	117.83	111.33
1	lf	26	VAL	O-C-N	-5.38	116.66	121.87
1	lt	205	LEU	O-C-N	-5.38	115.86	122.20
1	lx	70	LYS	N-CA-CB	5.38	118.12	110.06
1	lA	123	PRO	N-CD-CG	5.38	111.26	103.20
1	lB	187	GLU	CB-CG-CD	5.38	121.74	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	94	GLY	CA-C-O	-5.38	113.04	119.06
1	lG	70	LYS	CA-C-N	5.38	127.48	120.28
1	lG	70	LYS	C-N-CA	5.38	127.48	120.28
1	lK	140	LYS	N-CA-C	5.38	117.56	111.11
1	2s	104	ILE	CB-CA-C	-5.38	105.00	111.88
1	2x	105	ALA	N-CA-CB	-5.38	101.71	110.42
1	2D	55	MET	CA-C-O	5.38	126.25	120.55
1	2W	149	SER	CA-C-O	5.38	127.15	120.54
1	2Z	57	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	3b	167	ARG	CA-C-O	-5.38	114.72	120.42
1	3t	23	TRP	CB-CG-CD2	5.38	134.33	126.80
1	3D	178	SER	CB-CA-C	5.38	118.10	109.61
1	3X	26	VAL	N-CA-C	5.38	116.10	110.62
1	44	103	ASP	N-CA-C	5.38	117.22	111.36
1	44	215	MET	CA-C-O	-5.38	114.72	120.42
1	4d	120	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	4t	192	GLN	O-C-N	-5.38	116.42	122.12
1	4D	139	ASN	CA-C-N	5.38	127.43	120.44
1	4D	139	ASN	C-N-CA	5.38	127.43	120.44
1	4I	23	TRP	CG-CD2-CE3	5.38	139.28	133.90
1	4T	90	PRO	CA-C-N	5.38	127.33	120.56
1	4T	90	PRO	C-N-CA	5.38	127.33	120.56
1	4W	6	LEU	N-CA-CB	5.38	118.54	110.53
1	50	94	GLY	O-C-N	5.38	129.50	122.35
1	50	168	PHE	O-C-N	-5.38	116.42	122.12
1	53	104	ILE	O-C-N	-5.38	115.01	122.05
1	5p	47	ALA	N-CA-C	5.38	117.66	110.35
1	5q	131	LYS	O-C-N	-5.38	116.42	122.12
1	5L	19	THR	CA-CB-OG1	5.38	117.66	109.60
1	5Q	18	ARG	N-CA-C	5.38	117.56	111.11
1	62	219	GLN	O-C-N	-5.38	116.89	122.96
1	6b	213	GLU	N-CA-CB	5.38	118.11	110.16
1	6c	12	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	6n	199	LYS	CA-C-N	5.38	127.48	120.28
1	6n	199	LYS	C-N-CA	5.38	127.48	120.28
1	6w	81	ASP	CA-C-N	5.38	128.48	120.31
1	6w	81	ASP	C-N-CA	5.38	128.48	120.31
1	6L	2	ILE	N-CA-C	5.38	115.73	107.77
1	6L	210	THR	CA-C-N	5.38	127.48	120.28
1	6L	210	THR	C-N-CA	5.38	127.48	120.28
1	6M	179	GLN	CB-CG-CD	5.38	121.74	112.60
1	6Z	7	GLN	OE1-CD-NE2	-5.38	117.22	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Z	72	THR	CB-CA-C	-5.38	102.44	110.88
1	79	120	HIS	CA-CB-CG	5.38	119.17	113.80
1	7l	120	HIS	CB-CG-CD2	-5.38	124.21	131.20
1	7p	143	ARG	CA-C-O	-5.38	114.72	120.42
1	7s	126	VAL	N-CA-CB	-5.38	103.75	110.47
1	7B	33	SER	CA-C-O	-5.38	114.43	119.91
1	7J	37	ILE	O-C-N	5.38	123.86	120.42
1	8m	163	ASP	CA-CB-CG	5.38	117.97	112.60
1	8z	28	GLU	O-C-N	-5.38	115.23	122.43
1	8B	170	LYS	N-CA-C	5.38	116.82	111.07
1	8J	18	ARG	NE-CZ-NH1	5.38	126.88	121.50
1	8K	53	ASN	OD1-CG-ND2	-5.38	117.22	122.60
1	8O	4	GLN	CB-CG-CD	5.38	121.74	112.60
1	92	185	MET	N-CA-C	5.38	117.83	111.33
1	93	177	ALA	N-CA-C	5.38	117.23	110.24
1	9d	4	GLN	CA-C-N	5.38	130.04	121.66
1	9d	4	GLN	C-N-CA	5.38	130.04	121.66
1	9f	217	ALA	N-CA-C	5.38	118.75	110.42
1	9i	143	ARG	NH1-CZ-NH2	-5.38	112.31	119.30
1	9H	126	VAL	N-CA-C	5.38	119.63	111.89
1	9L	120	HIS	CE1-NE2-CD2	-5.38	103.62	109.00
1	9Q	83	LEU	N-CA-C	-5.38	105.58	111.82
1	ag	129	ILE	N-CA-CB	5.38	116.84	110.55
1	an	203	LYS	CA-C-O	5.38	126.15	119.97
1	aG	165	VAL	CB-CA-C	5.38	120.92	112.16
1	aI	84	HIS	ND1-CE1-NE2	5.38	113.78	108.40
1	aO	135	ILE	N-CA-C	5.38	116.10	110.62
1	19	73	ILE	O-C-N	-5.38	116.29	121.83
1	bN	46	GLY	CA-C-N	-5.38	115.30	122.72
1	bN	46	GLY	C-N-CA	-5.38	115.30	122.72
1	ci	99	PRO	N-CD-CG	5.38	111.26	103.20
1	cs	173	ARG	CA-C-N	5.38	127.92	120.29
1	cs	173	ARG	C-N-CA	5.38	127.92	120.29
1	ct	62	HIS	ND1-CG-CD2	5.38	111.47	106.10
1	dA	131	LYS	N-CA-C	5.38	117.83	111.33
1	dB	32	PHE	CB-CA-C	5.38	119.64	110.56
1	dU	138	LEU	N-CA-C	5.38	117.83	111.33
1	e1	49	PRO	CA-C-N	5.38	127.43	120.44
1	e1	49	PRO	C-N-CA	5.38	127.43	120.44
1	eg	37	ILE	CA-C-N	5.38	124.71	118.85
1	eg	37	ILE	C-N-CA	5.38	124.71	118.85
1	eh	65	ALA	N-CA-C	5.38	117.14	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	148	THR	CA-C-O	5.38	126.80	120.89
1	eH	165	VAL	O-C-N	-5.38	116.66	121.87
1	f1	22	ALA	CA-C-N	5.38	127.43	120.44
1	f1	22	ALA	C-N-CA	5.38	127.43	120.44
1	f1	169	TYR	O-C-N	-5.38	115.66	122.27
1	f2	47	ALA	N-CA-C	5.38	118.58	109.76
1	f3	201	ILE	O-C-N	-5.38	116.64	121.91
1	ff	153	ILE	N-CA-CB	5.38	118.13	111.41
1	fy	172	LEU	CA-C-O	5.38	125.97	119.31
1	fG	76	GLU	N-CA-CB	-5.38	102.20	110.16
1	fI	51	ASP	CA-C-N	5.38	127.43	120.44
1	fI	51	ASP	C-N-CA	5.38	127.43	120.44
1	fL	180	GLU	N-CA-CB	-5.38	102.22	110.12
1	g5	113	GLU	CA-C-N	5.38	127.48	120.28
1	g5	113	GLU	C-N-CA	5.38	127.48	120.28
1	b	7	GLN	N-CA-C	5.38	119.10	112.54
1	F	119	THR	CA-C-N	5.38	129.95	120.87
1	F	119	THR	C-N-CA	5.38	129.95	120.87
1	5	190	LEU	N-CA-C	5.38	117.14	111.28
1	g9	84	HIS	O-C-N	-5.37	116.60	121.17
1	gc	128	GLU	CB-CG-CD	5.37	121.74	112.60
1	gd	182	LYS	N-CA-C	5.37	117.22	111.36
1	gl	178	SER	CA-C-N	5.37	128.88	120.82
1	gl	178	SER	C-N-CA	5.37	128.88	120.82
1	gm	107	THR	CA-C-O	5.37	126.13	119.79
1	gq	167	ARG	N-CA-C	5.37	117.14	111.28
1	gr	212	GLU	N-CA-C	5.37	117.14	111.28
1	1D	191	VAL	CA-CB-CG1	-5.37	101.27	110.40
1	gE	77	ALA	N-CA-C	5.37	116.82	111.07
1	gE	132	ARG	CD-NE-CZ	-5.37	116.88	124.40
1	gG	41	SER	N-CA-C	5.37	116.82	111.07
1	gR	96	MET	N-CA-C	5.37	118.38	109.46
1	gW	137	GLY	CA-C-N	5.37	127.43	120.44
1	gW	137	GLY	C-N-CA	5.37	127.43	120.44
1	h5	125	PRO	N-CA-CB	-5.37	97.61	103.25
1	ha	148	THR	O-C-N	-5.37	117.26	123.33
1	hf	182	LYS	N-CA-C	5.37	117.14	111.28
1	hA	17	PRO	O-C-N	-5.37	116.06	122.24
1	hA	137	GLY	O-C-N	-5.37	116.16	122.34
1	hB	148	THR	O-C-N	-5.37	117.67	123.42
1	hE	230	VAL	CB-CA-C	5.37	118.98	111.08
1	hF	1	PRO	N-CA-CB	5.37	108.91	103.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hM	200	THR	N-CA-CB	5.37	118.02	110.12
1	hN	41	SER	N-CA-C	5.37	117.14	111.28
1	hU	160	PRO	N-CD-CG	5.37	111.26	103.20
1	1N	195	ASN	CA-CB-CG	5.37	117.97	112.60
1	id	182	LYS	CA-C-O	5.37	126.25	120.55
1	if	86	VAL	N-CA-C	5.37	116.62	109.37
1	iq	187	GLU	N-CA-CB	-5.37	101.64	110.40
1	iv	172	LEU	CA-C-O	5.37	126.25	120.55
1	1T	103	ASP	O-C-N	-5.37	116.42	122.12
1	jc	147	PRO	N-CA-CB	-5.37	99.24	102.79
1	je	126	VAL	O-C-N	-5.37	116.62	121.89
1	jh	126	VAL	CA-C-O	-5.37	115.68	121.27
1	1V	165	VAL	O-C-N	-5.37	116.64	121.91
1	kd	136	LEU	N-CA-C	5.37	117.83	111.33
1	ki	130	TYR	O-C-N	-5.37	116.02	122.15
1	ku	51	ASP	CA-C-N	5.37	127.42	120.44
1	ku	51	ASP	C-N-CA	5.37	127.42	120.44
1	kx	108	THR	CA-C-O	5.37	125.57	119.18
1	23	79	GLU	O-C-N	-5.37	116.29	122.09
1	kH	47	ALA	CB-CA-C	-5.37	100.00	109.62
1	24	58	THR	CA-C-N	5.37	128.62	120.77
1	24	58	THR	C-N-CA	5.37	128.62	120.77
1	kW	3	VAL	O-C-N	-5.37	117.38	123.18
1	kZ	33	SER	CA-C-O	-5.37	115.10	120.96
1	le	26	VAL	CA-C-N	5.37	127.33	120.56
1	le	26	VAL	C-N-CA	5.37	127.33	120.56
1	lh	192	GLN	CA-C-N	5.37	130.98	122.60
1	lh	192	GLN	C-N-CA	5.37	130.98	122.60
1	27	120	HIS	O-C-N	-5.37	116.66	122.79
1	lp	206	GLY	N-CA-C	5.37	123.30	112.34
1	lv	16	SER	N-CA-C	5.37	116.47	109.64
1	lw	59	VAL	CA-C-N	5.37	131.94	121.41
1	lw	59	VAL	C-N-CA	5.37	131.94	121.41
1	lx	71	GLU	N-CA-C	-5.37	105.32	111.07
1	lA	100	ARG	CA-C-N	5.37	126.06	119.99
1	lA	100	ARG	C-N-CA	5.37	126.06	119.99
1	2f	131	LYS	CA-C-N	5.37	127.48	120.28
1	2f	131	LYS	C-N-CA	5.37	127.48	120.28
1	2j	51	ASP	CA-C-N	5.37	127.42	120.44
1	2j	51	ASP	C-N-CA	5.37	127.42	120.44
1	2l	65	ALA	O-C-N	-5.37	116.42	122.12
1	2y	70	LYS	O-C-N	-5.37	116.42	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2K	86	VAL	CA-CB-CG1	5.37	119.53	110.40
1	2M	161	PHE	CA-CB-CG	5.37	119.17	113.80
1	3a	154	ARG	CB-CG-CD	5.37	123.66	111.30
1	3s	221	VAL	N-CA-CB	-5.37	103.05	112.08
1	3z	111	LEU	CA-C-O	5.37	126.25	120.55
1	3B	62	HIS	CA-C-O	5.37	128.07	121.84
1	3F	126	VAL	N-CA-C	5.37	116.75	110.62
1	3R	67	GLN	N-CA-C	5.37	116.82	111.07
1	3X	60	GLY	CA-C-N	5.37	131.94	121.41
1	3X	60	GLY	C-N-CA	5.37	131.94	121.41
1	3Z	34	PRO	N-CA-C	5.37	121.60	113.81
1	42	96	MET	N-CA-C	5.37	117.14	111.28
1	45	200	THR	N-CA-CB	5.37	117.95	109.94
1	46	41	SER	CA-CB-OG	-5.37	100.35	111.10
1	4c	143	ARG	N-CA-CB	5.37	117.80	110.01
1	4h	41	SER	N-CA-CB	5.37	117.80	110.01
1	4h	54	THR	CA-C-N	5.37	127.42	120.44
1	4h	54	THR	C-N-CA	5.37	127.42	120.44
1	4h	62	HIS	ND1-CG-CD2	5.37	111.47	106.10
1	4s	49	PRO	N-CD-CG	5.37	111.26	103.20
1	4y	167	ARG	CA-C-N	5.37	127.75	120.44
1	4y	167	ARG	C-N-CA	5.37	127.75	120.44
1	4E	112	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	4J	180	GLU	N-CA-CB	5.37	117.80	110.01
1	4K	101	GLY	CA-C-N	5.37	127.92	120.29
1	4K	101	GLY	C-N-CA	5.37	127.92	120.29
1	4R	120	HIS	N-CA-CB	-5.37	101.41	110.49
1	4T	53	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	53	34	PRO	CA-C-N	5.37	129.69	120.72
1	53	34	PRO	C-N-CA	5.37	129.69	120.72
1	53	100	ARG	NE-CZ-NH2	5.37	124.04	119.20
1	54	225	GLY	CA-C-N	5.37	130.74	123.11
1	54	225	GLY	C-N-CA	5.37	130.74	123.11
1	58	9	GLN	N-CA-C	-5.37	105.42	112.41
1	59	132	ARG	NH1-CZ-NH2	-5.37	112.31	119.30
1	5n	67	GLN	CG-CD-NE2	-5.37	108.34	116.40
1	5n	151	LEU	CA-C-O	5.37	125.56	119.27
1	5p	72	THR	O-C-N	-5.37	116.53	122.07
1	5w	138	LEU	N-CA-C	5.37	117.14	111.28
1	5z	140	LYS	N-CA-C	5.37	117.14	111.28
1	5G	146	SER	N-CA-C	5.37	120.06	112.75
1	5G	176	GLN	O-C-N	-5.37	115.74	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5N	192	GLN	N-CA-C	5.37	117.14	111.28
1	5X	84	HIS	CA-C-N	5.37	126.56	119.84
1	5X	84	HIS	C-N-CA	5.37	126.56	119.84
1	69	173	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	6e	173	ARG	NE-CZ-NH2	-5.37	114.36	119.20
1	6q	91	ILE	N-CA-C	5.37	117.19	109.51
1	6v	55	MET	N-CA-C	5.37	116.82	111.07
1	6w	41	SER	N-CA-C	5.37	116.82	111.07
1	6C	72	THR	CA-C-O	5.37	126.65	120.90
1	6Q	14	ALA	N-CA-C	5.37	117.66	110.35
1	6V	162	ARG	CA-C-N	5.37	127.75	120.44
1	6V	162	ARG	C-N-CA	5.37	127.75	120.44
1	73	23	TRP	O-C-N	-5.37	115.93	122.22
1	7b	51	ASP	CA-C-N	5.37	127.92	120.29
1	7b	51	ASP	C-N-CA	5.37	127.92	120.29
1	7w	120	HIS	CG-CD2-NE2	5.37	112.57	107.20
1	7A	160	PRO	N-CA-C	5.37	123.54	112.47
1	7E	125	PRO	CA-C-N	5.37	129.43	120.62
1	7E	125	PRO	C-N-CA	5.37	129.43	120.62
1	7G	121	ASN	CB-CA-C	-5.37	104.21	110.17
1	7P	51	ASP	N-CA-C	5.37	117.14	111.28
1	7U	199	LYS	CA-C-N	5.37	128.02	120.28
1	7U	199	LYS	C-N-CA	5.37	128.02	120.28
1	8a	19	THR	N-CA-CB	5.37	117.80	110.01
1	8a	219	GLN	N-CA-CB	-5.37	102.07	109.97
1	8k	23	TRP	CA-CB-CG	5.37	123.81	113.60
1	8B	50	GLN	CA-CB-CG	5.37	124.85	114.10
1	8F	66	MET	O-C-N	-5.37	116.42	122.12
1	8I	90	PRO	CB-CA-C	-5.37	104.82	111.64
1	9j	180	GLU	O-C-N	-5.37	116.42	122.12
1	9j	196	PRO	CA-C-N	5.37	127.42	120.44
1	9j	196	PRO	C-N-CA	5.37	127.42	120.44
1	9k	31	ALA	CB-CA-C	-5.37	100.35	110.67
1	9k	139	ASN	CA-C-N	5.37	127.43	120.44
1	9k	139	ASN	C-N-CA	5.37	127.43	120.44
1	9w	115	ILE	N-CA-CB	-5.37	101.46	110.65
1	9H	49	PRO	CA-N-CD	-5.37	104.48	112.00
1	9J	159	GLU	N-CA-C	5.37	116.66	109.83
1	9S	166	ASP	CA-CB-CG	5.37	117.97	112.60
1	9V	3	VAL	CA-C-N	5.37	129.69	120.72
1	9V	3	VAL	C-N-CA	5.37	129.69	120.72
1	9V	77	ALA	CA-C-N	5.37	127.43	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9V	77	ALA	C-N-CA	5.37	127.43	120.44
1	a8	226	HIS	CB-CG-ND1	5.37	130.76	122.70
1	af	74	ASN	CA-C-N	5.37	127.43	120.44
1	af	74	ASN	C-N-CA	5.37	127.43	120.44
1	af	138	LEU	N-CA-C	-5.37	105.50	111.36
1	be	176	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	bf	142	VAL	CA-C-N	5.37	127.48	120.28
1	bf	142	VAL	C-N-CA	5.37	127.48	120.28
1	bi	63	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	bw	189	LEU	CA-C-N	5.37	127.74	120.38
1	bw	189	LEU	C-N-CA	5.37	127.74	120.38
1	bx	179	GLN	CA-C-N	5.37	127.42	120.44
1	bx	179	GLN	C-N-CA	5.37	127.42	120.44
1	bC	178	SER	O-C-N	-5.37	116.67	123.12
1	cb	154	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	ce	124	ILE	O-C-N	-5.37	116.57	121.41
1	1e	62	HIS	CG-CD2-NE2	-5.37	101.83	107.20
1	ct	152	ASP	CA-C-O	5.37	126.13	119.79
1	cv	64	ALA	CA-C-O	5.37	126.12	120.42
1	cy	130	TYR	N-CA-C	5.37	117.22	111.36
1	1f	14	ALA	CA-C-O	5.37	127.42	121.56
1	cI	117	TRP	N-CA-CB	5.37	118.11	110.16
1	1g	74	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	cN	21	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	1h	71	GLU	CA-C-O	5.37	126.46	120.82
1	cU	89	GLY	CA-C-N	5.37	125.68	119.93
1	cU	89	GLY	C-N-CA	5.37	125.68	119.93
1	cU	166	ASP	N-CA-CB	-5.37	102.22	110.01
1	d0	229	ARG	N-CA-C	5.37	117.26	108.55
1	d3	170	LYS	N-CA-CB	-5.37	101.93	109.94
1	d6	104	ILE	CA-CB-CG1	5.37	119.53	110.40
1	dg	126	VAL	N-CA-C	5.37	115.58	110.53
1	dm	124	ILE	CA-C-N	-5.37	116.22	121.65
1	dm	124	ILE	C-N-CA	-5.37	116.22	121.65
1	dp	18	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	dq	228	ALA	CA-C-N	5.37	131.80	121.54
1	dq	228	ALA	C-N-CA	5.37	131.80	121.54
1	dy	201	ILE	N-CA-C	5.37	116.10	110.62
1	dG	66	MET	N-CA-CB	5.37	118.11	110.16
1	dK	112	GLN	N-CA-C	5.37	120.18	111.37
1	dQ	189	LEU	O-C-N	-5.37	116.42	122.12
1	dU	199	LYS	O-C-N	-5.37	116.02	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dY	124	ILE	CB-CA-C	-5.37	104.56	110.52
1	ei	200	THR	CA-C-N	5.37	128.05	120.42
1	ei	200	THR	C-N-CA	5.37	128.05	120.42
1	1q	203	LYS	N-CA-C	5.37	117.89	111.71
1	eq	39	MET	O-C-N	-5.37	116.53	122.07
1	eK	62	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	eM	191	VAL	N-CA-CB	5.37	118.64	110.58
1	eT	189	LEU	O-C-N	-5.37	116.50	122.09
1	fo	87	HIS	CB-CG-ND1	-5.37	114.64	122.70
1	fq	59	VAL	N-CA-C	5.37	120.52	109.34
1	fv	141	ILE	N-CA-C	5.37	115.58	110.42
1	fx	210	THR	O-C-N	-5.37	116.46	122.75
1	fz	99	PRO	CA-C-O	-5.37	114.91	121.03
1	fA	179	GLN	CA-C-N	5.37	127.92	120.29
1	fA	179	GLN	C-N-CA	5.37	127.92	120.29
1	fM	19	THR	CA-CB-OG1	5.37	117.66	109.60
1	1B	173	ARG	CA-C-N	5.37	127.92	120.29
1	1B	173	ARG	C-N-CA	5.37	127.92	120.29
1	k	164	TYR	CB-CA-C	5.37	119.32	110.88
1	l	154	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	y	23	TRP	CA-C-N	5.37	128.11	120.53
1	y	23	TRP	C-N-CA	5.37	128.11	120.53
1	C	57	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	M	80	TRP	CA-C-N	5.37	128.48	120.31
1	M	80	TRP	C-N-CA	5.37	128.48	120.31
1	gk	140	LYS	CB-CA-C	-5.37	101.87	110.79
1	gt	170	LYS	N-CA-C	5.37	116.82	111.07
1	gv	78	ALA	CA-C-N	5.37	128.01	120.28
1	gv	78	ALA	C-N-CA	5.37	128.01	120.28
1	1E	228	ALA	N-CA-C	5.37	116.82	111.07
1	1F	35	GLU	CA-C-N	5.37	127.53	120.60
1	1F	35	GLU	C-N-CA	5.37	127.53	120.60
1	gP	54	THR	N-CA-CB	5.37	117.80	110.01
1	h5	230	VAL	CA-CB-CG2	-5.37	101.27	110.40
1	h9	59	VAL	CA-C-N	5.37	126.78	120.71
1	h9	59	VAL	C-N-CA	5.37	126.78	120.71
1	hh	21	ASN	CB-CA-C	5.37	119.31	110.88
1	hi	92	GLU	CA-C-O	-5.37	115.56	120.50
1	hj	213	GLU	N-CA-C	5.37	116.82	111.07
1	hy	65	ALA	N-CA-CB	-5.37	101.95	110.28
1	hS	191	VAL	CA-C-N	5.37	128.47	120.31
1	hS	191	VAL	C-N-CA	5.37	128.47	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	226	HIS	CA-CB-CG	-5.37	108.43	113.80
1	i9	203	LYS	N-CA-C	5.37	117.89	111.71
1	ic	152	ASP	CA-CB-CG	5.37	117.97	112.60
1	iy	227	LYS	N-CA-C	5.37	122.24	110.80
1	je	140	LYS	N-CA-C	5.37	116.82	111.07
1	jg	26	VAL	N-CA-CB	5.37	118.64	110.58
1	jv	13	GLN	CA-C-O	-5.37	115.15	121.44
1	jz	47	ALA	N-CA-C	5.37	118.02	109.96
1	jJ	185	MET	N-CA-C	5.37	118.05	111.82
1	1Y	176	GLN	CA-C-O	5.37	128.15	121.81
1	jW	110	THR	N-CA-CB	5.37	119.06	110.46
1	jY	52	LEU	CA-C-O	5.37	126.46	120.82
1	k1	143	ARG	CG-CD-NE	-5.37	100.18	112.00
1	k2	221	VAL	O-C-N	5.37	128.46	122.61
1	k3	155	GLN	N-CA-C	5.37	117.47	110.43
1	k6	105	ALA	N-CA-C	5.37	119.47	113.02
1	k9	107	THR	CA-CB-OG1	5.37	117.66	109.60
1	20	105	ALA	O-C-N	-5.37	114.96	122.37
1	kd	122	PRO	N-CA-CB	5.37	108.51	102.60
1	kk	130	TYR	N-CA-C	5.37	117.14	111.28
1	22	209	ALA	O-C-N	5.37	128.91	122.79
1	ku	69	LEU	O-C-N	-5.37	116.43	122.12
1	kv	40	PHE	O-C-N	-5.37	116.50	122.09
1	kA	165	VAL	N-CA-CB	5.37	116.83	110.55
1	kF	36	VAL	CA-C-N	5.37	124.63	120.33
1	kF	36	VAL	C-N-CA	5.37	124.63	120.33
1	kO	160	PRO	CA-C-N	5.37	127.92	120.29
1	kO	160	PRO	C-N-CA	5.37	127.92	120.29
1	kP	200	THR	CA-C-O	-5.37	115.15	120.90
1	kR	210	THR	CA-CB-OG1	5.37	117.66	109.60
1	l3	181	VAL	N-CA-C	5.37	115.58	110.42
1	l7	24	VAL	CA-C-N	5.37	128.88	120.82
1	l7	24	VAL	C-N-CA	5.37	128.88	120.82
1	la	72	THR	N-CA-C	5.37	116.82	111.07
1	lj	229	ARG	N-CA-C	5.37	118.20	108.69
1	lk	226	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	lm	171	THR	O-C-N	-5.37	116.54	122.07
1	lq	9	GLN	CA-C-O	-5.37	115.96	121.87
1	lr	30	LYS	N-CA-C	-5.37	106.10	113.30
1	lt	219	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	lE	168	PHE	N-CA-CB	-5.37	102.21	110.16
1	lJ	216	THR	N-CA-C	5.37	117.83	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lL	8	GLY	O-C-N	-5.37	116.77	122.95
1	lL	57	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	lM	221	VAL	O-C-N	-5.37	117.39	123.03
1	lN	183	ASN	CA-CB-CG	-5.37	107.23	112.60
1	lP	19	THR	O-C-N	-5.37	116.54	122.07
1	lQ	121	ASN	CA-CB-CG	-5.37	107.23	112.60
1	lR	41	SER	CB-CA-C	-5.37	101.72	110.85
1	2b	226	HIS	CB-CA-C	-5.37	99.73	110.42
1	2m	21	ASN	CA-C-N	5.37	127.42	120.44
1	2m	21	ASN	C-N-CA	5.37	127.42	120.44
1	2r	130	TYR	CA-C-O	5.37	126.11	120.42
1	2s	197	ASP	CA-CB-CG	5.37	117.97	112.60
1	2N	214	MET	O-C-N	5.37	128.27	122.15
1	3k	129	ILE	O-C-N	-5.37	116.16	121.96
1	3l	206	GLY	CA-C-N	5.37	124.99	119.56
1	3l	206	GLY	C-N-CA	5.37	124.99	119.56
1	3y	172	LEU	O-C-N	5.37	127.81	122.12
1	3H	18	ARG	N-CA-CB	5.37	117.80	110.01
1	3L	165	VAL	CA-C-N	5.37	128.26	120.79
1	3L	165	VAL	C-N-CA	5.37	128.26	120.79
1	3R	78	ALA	CA-C-N	5.37	127.92	120.29
1	3R	78	ALA	C-N-CA	5.37	127.92	120.29
1	3X	176	GLN	CA-C-N	5.37	129.31	121.31
1	3X	176	GLN	C-N-CA	5.37	129.31	121.31
1	43	140	LYS	O-C-N	-5.37	116.54	122.07
1	46	219	GLN	CB-CA-C	5.37	118.59	109.84
1	49	87	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	4v	136	LEU	N-CA-C	5.37	117.83	111.33
1	4z	226	HIS	CA-C-N	5.37	131.25	122.07
1	4z	226	HIS	C-N-CA	5.37	131.25	122.07
1	4E	47	ALA	CA-C-O	5.37	126.61	120.54
1	4S	22	ALA	CA-C-O	5.37	126.24	120.55
1	4S	75	GLU	CA-C-N	5.37	127.74	120.65
1	4S	75	GLU	C-N-CA	5.37	127.74	120.65
1	4S	184	TRP	CD2-CE2-CZ2	-5.37	117.03	122.40
1	56	77	ALA	N-CA-C	5.37	117.14	111.28
1	59	199	LYS	CA-C-N	5.37	127.48	120.28
1	59	199	LYS	C-N-CA	5.37	127.48	120.28
1	5x	59	VAL	N-CA-CB	5.37	117.92	111.31
1	5x	63	GLN	O-C-N	-5.37	115.23	122.43
1	5x	229	ARG	NE-CZ-NH2	-5.37	114.36	119.20
1	5F	223	GLY	CA-C-N	5.37	126.56	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	223	GLY	C-N-CA	5.37	126.56	119.84
1	5P	87	HIS	CA-CB-CG	-5.37	108.43	113.80
1	5W	205	LEU	CA-C-N	5.37	130.30	121.87
1	5W	205	LEU	C-N-CA	5.37	130.30	121.87
1	6m	80	TRP	N-CA-C	5.37	117.14	111.28
1	6o	130	TYR	CB-CA-C	5.37	119.71	110.79
1	6t	48	THR	N-CA-C	-5.37	103.86	110.31
1	6u	82	ARG	N-CA-C	5.37	116.82	111.07
1	6w	165	VAL	N-CA-C	5.37	116.10	110.62
1	6E	43	LEU	O-C-N	-5.37	116.43	122.12
1	6E	89	GLY	O-C-N	-5.37	116.40	121.77
1	6H	187	GLU	N-CA-C	5.37	118.30	111.69
1	6L	192	GLN	CB-CG-CD	5.37	121.73	112.60
1	70	16	SER	CB-CA-C	5.37	118.01	109.52
1	7e	23	TRP	CA-C-O	-5.37	115.17	120.70
1	7e	35	GLU	CA-C-N	5.37	129.53	120.29
1	7e	35	GLU	C-N-CA	5.37	129.53	120.29
1	7v	191	VAL	CA-C-N	5.37	127.92	120.29
1	7v	191	VAL	C-N-CA	5.37	127.92	120.29
1	7z	120	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	7L	38	PRO	CA-C-O	-5.37	110.82	120.60
1	7M	211	LEU	N-CA-CB	5.37	118.02	110.12
1	7P	192	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	7Q	180	GLU	CB-CA-C	-5.37	101.88	110.79
1	7R	166	ASP	N-CA-C	5.37	117.57	111.02
1	7Y	156	GLY	CA-C-N	5.37	125.01	119.05
1	7Y	156	GLY	C-N-CA	5.37	125.01	119.05
1	84	112	GLN	N-CA-C	5.37	117.22	111.36
1	8a	184	TRP	N-CA-CB	-5.37	101.95	110.28
1	8c	27	VAL	CA-C-O	5.37	126.54	120.95
1	8g	155	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	8j	162	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	8n	110	THR	CA-CB-CG2	5.37	119.63	110.50
1	8v	120	HIS	CB-CG-CD2	-5.37	124.22	131.20
1	8w	208	ALA	N-CA-CB	5.37	119.57	110.49
1	8G	9	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	8I	25	LYS	CA-C-N	5.37	128.05	120.42
1	8I	25	LYS	C-N-CA	5.37	128.05	120.42
1	8J	203	LYS	CB-CG-CD	5.37	123.66	111.30
1	8K	5	ASN	N-CA-C	-5.37	100.65	109.40
1	8T	138	LEU	N-CA-CB	5.37	118.11	110.16
1	9a	148	THR	CA-CB-OG1	5.37	117.66	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9j	154	ARG	N-CA-C	5.37	117.81	110.24
1	9t	183	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	9z	221	VAL	CA-C-O	5.37	124.36	119.20
1	9D	62	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	9I	223	GLY	CA-C-N	5.37	125.35	120.03
1	9I	223	GLY	C-N-CA	5.37	125.35	120.03
1	9L	151	LEU	N-CA-C	5.37	119.00	112.23
1	a8	23	TRP	N-CA-C	-5.37	105.32	111.07
1	ah	19	THR	N-CA-CB	5.37	118.12	110.06
1	ai	91	ILE	O-C-N	-5.37	117.59	123.18
1	aj	96	MET	N-CA-C	5.37	122.24	110.80
1	al	228	ALA	CB-CA-C	-5.37	100.94	109.80
1	aB	81	ASP	N-CA-C	5.37	117.14	111.28
1	13	12	HIS	CB-CG-ND1	5.37	130.76	122.70
1	aJ	63	GLN	N-CA-C	5.37	117.21	111.36
1	aK	123	PRO	N-CA-CB	5.37	108.09	103.31
1	aM	62	HIS	N-CA-C	5.37	118.80	111.39
1	aQ	184	TRP	CD2-CE3-CZ3	-5.37	111.62	118.60
1	b6	169	TYR	CA-CB-CG	-5.37	104.23	113.90
1	b8	160	PRO	CB-CA-C	-5.37	104.06	111.21
1	bh	28	GLU	CA-C-N	5.37	127.74	120.65
1	bh	28	GLU	C-N-CA	5.37	127.74	120.65
1	bm	55	MET	CG-SD-CE	-5.37	89.08	100.90
1	18	3	VAL	N-CA-C	5.37	118.06	112.90
1	bG	23	TRP	N-CA-CB	-5.37	102.22	110.01
1	bO	104	ILE	N-CA-C	5.37	116.10	110.62
1	bO	141	ILE	N-CA-CB	-5.37	103.23	110.54
1	bP	107	THR	CA-C-O	-5.37	114.73	120.42
1	bR	84	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	bV	139	ASN	CA-C-N	5.37	127.42	120.44
1	bV	139	ASN	C-N-CA	5.37	127.42	120.44
1	1b	41	SER	CA-C-N	5.37	127.42	120.44
1	1b	41	SER	C-N-CA	5.37	127.42	120.44
1	bY	164	TYR	CA-C-O	5.37	126.65	120.90
1	bY	218	CYS	N-CA-CB	5.37	119.57	110.49
1	bZ	219	GLN	N-CA-C	5.37	117.66	110.35
1	ca	76	GLU	CB-CG-CD	5.37	121.73	112.60
1	ce	66	MET	N-CA-CB	-5.37	101.94	109.94
1	cf	14	ALA	N-CA-C	5.37	118.08	110.50
1	1d	220	GLY	O-C-N	-5.37	116.21	122.60
1	cg	138	LEU	N-CA-C	5.37	117.14	111.28
1	ci	112	GLN	CA-C-O	-5.37	115.15	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	19	THR	N-CA-C	5.37	117.14	111.28
1	cx	220	GLY	CA-C-N	5.37	131.64	121.97
1	cx	220	GLY	C-N-CA	5.37	131.64	121.97
1	cM	208	ALA	N-CA-C	5.37	118.99	111.74
1	cN	201	ILE	O-C-N	-5.37	116.31	121.90
1	cU	2	ILE	CA-CB-CG1	5.37	119.53	110.40
1	de	206	GLY	N-CA-C	5.37	123.30	112.34
1	dl	118	MET	CA-C-N	5.37	128.47	120.31
1	dl	118	MET	C-N-CA	5.37	128.47	120.31
1	ds	192	GLN	CG-CD-NE2	-5.37	108.34	116.40
1	dv	5	ASN	CA-C-O	-5.37	114.63	120.81
1	dK	36	VAL	CB-CA-C	5.37	119.39	112.14
1	dN	135	ILE	CA-C-N	5.37	127.48	120.28
1	dN	135	ILE	C-N-CA	5.37	127.48	120.28
1	1q	11	VAL	CA-CB-CG1	5.37	119.53	110.40
1	eo	80	TRP	CA-C-O	5.37	126.11	120.42
1	1s	78	ALA	CA-C-O	-5.37	114.73	120.42
1	eR	135	ILE	CB-CA-C	5.37	119.39	112.14
1	eW	103	ASP	CA-CB-CG	5.37	117.97	112.60
1	f2	57	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	f7	15	ILE	CB-CG1-CD1	-5.37	102.52	113.80
1	fa	226	HIS	CB-CG-CD2	-5.37	124.22	131.20
1	fg	160	PRO	CA-C-N	5.37	127.92	120.29
1	fg	160	PRO	C-N-CA	5.37	127.92	120.29
1	1x	55	MET	CA-C-N	5.37	127.92	120.29
1	1x	55	MET	C-N-CA	5.37	127.92	120.29
1	fw	48	THR	CA-C-N	5.37	124.83	119.24
1	fw	48	THR	C-N-CA	5.37	124.83	119.24
1	fA	149	SER	N-CA-CB	5.37	119.39	110.63
1	fW	80	TRP	CG-CD1-NE1	-5.37	103.22	110.20
1	k	74	ASN	CB-CG-OD1	5.37	131.54	120.80
1	D	105	ALA	O-C-N	-5.37	114.44	122.39
1	H	204	ALA	CA-C-N	5.37	128.47	120.31
1	H	204	ALA	C-N-CA	5.37	128.47	120.31
1	P	39	MET	N-CA-C	5.37	117.13	111.28
1	ge	184	TRP	CD2-CE3-CZ3	5.37	125.58	118.60
1	gt	142	VAL	CA-C-O	-5.37	115.37	120.95
1	gx	156	GLY	CA-C-N	5.37	124.70	118.85
1	gx	156	GLY	C-N-CA	5.37	124.70	118.85
1	1F	129	ILE	N-CA-CB	5.37	116.83	110.55
1	1H	97	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	hF	227	LYS	N-CA-C	5.37	116.88	109.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i7	76	GLU	CA-C-N	5.37	127.92	120.29
1	i7	76	GLU	C-N-CA	5.37	127.92	120.29
1	io	226	HIS	CG-CD2-NE2	5.37	112.57	107.20
1	is	11	VAL	N-CA-C	5.37	115.63	108.11
1	iv	80	TRP	CB-CG-CD1	-5.37	118.84	126.90
1	iI	125	PRO	N-CA-CB	5.37	106.55	102.36
1	j6	150	ILE	O-C-N	-5.37	116.66	121.87
1	20	194	ALA	O-C-N	-5.37	116.05	122.65
1	kp	21	ASN	CA-CB-CG	5.37	117.97	112.60
1	kA	163	ASP	CB-CA-C	5.37	120.53	110.70
1	kA	191	VAL	CA-C-N	5.37	127.42	120.44
1	kA	191	VAL	C-N-CA	5.37	127.42	120.44
1	kE	20	LEU	O-C-N	-5.37	116.43	122.12
1	lf	140	LYS	O-C-N	-5.37	116.03	122.15
1	lG	16	SER	CA-CB-OG	5.37	121.84	111.10
1	lI	140	LYS	N-CA-CB	5.37	117.80	110.01
1	2a	11	VAL	O-C-N	-5.37	117.40	123.20
1	2r	159	GLU	N-CA-CB	-5.37	99.85	109.68
1	2T	33	SER	O-C-N	-5.37	117.18	121.80
1	2U	36	VAL	N-CA-C	-5.37	105.14	110.62
1	2U	39	MET	N-CA-C	5.37	117.55	111.11
1	32	19	THR	CA-C-N	5.37	128.01	120.28
1	32	19	THR	C-N-CA	5.37	128.01	120.28
1	3b	7	GLN	CA-C-N	5.37	130.83	121.97
1	3b	7	GLN	C-N-CA	5.37	130.83	121.97
1	3f	34	PRO	CA-C-N	5.37	132.05	121.58
1	3f	34	PRO	C-N-CA	5.37	132.05	121.58
1	3g	219	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	3h	34	PRO	N-CA-C	-5.37	107.15	113.86
1	3o	171	THR	N-CA-CB	5.37	117.80	110.01
1	3y	26	VAL	CA-C-N	5.37	128.96	120.47
1	3y	26	VAL	C-N-CA	5.37	128.96	120.47
1	3T	206	GLY	CA-C-N	-5.37	114.24	120.04
1	3T	206	GLY	C-N-CA	-5.37	114.24	120.04
1	41	49	PRO	N-CA-CB	5.37	108.89	103.25
1	4a	51	ASP	CA-CB-CG	-5.37	107.23	112.60
1	4I	198	CYS	CA-C-O	5.37	126.55	120.00
1	50	142	VAL	CA-CB-CG1	5.37	119.53	110.40
1	5s	229	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	6p	6	LEU	N-CA-CB	5.37	119.65	111.70
1	6J	197	ASP	O-C-N	-5.37	116.03	122.15
1	6L	167	ARG	NE-CZ-NH2	5.37	124.03	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	26	VAL	O-C-N	-5.37	116.30	121.83
1	7u	67	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	7v	16	SER	CB-CA-C	-5.37	100.71	109.41
1	7D	182	LYS	CG-CD-CE	5.37	123.65	111.30
1	7G	48	THR	N-CA-C	-5.37	103.16	110.36
1	85	37	ILE	O-C-N	-5.37	116.98	120.42
1	8f	203	LYS	N-CA-C	5.37	117.13	111.28
1	9u	67	GLN	CA-C-O	-5.37	114.86	120.55
1	9B	190	LEU	CA-C-N	5.37	128.10	120.53
1	9B	190	LEU	C-N-CA	5.37	128.10	120.53
1	9D	135	ILE	N-CA-C	5.37	116.10	110.62
1	9R	132	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	a9	77	ALA	N-CA-C	5.37	117.13	111.28
1	ac	16	SER	CA-C-N	5.37	124.70	118.85
1	ac	16	SER	C-N-CA	5.37	124.70	118.85
1	ac	96	MET	CA-C-O	5.37	127.00	120.99
1	ae	133	TRP	CB-CG-CD2	5.37	134.32	126.80
1	ap	87	HIS	ND1-CG-CD2	-5.37	100.73	106.10
1	ap	150	ILE	CB-CG1-CD1	-5.37	102.52	113.80
1	aq	87	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	ar	133	TRP	CB-CG-CD2	-5.37	119.28	126.80
1	bw	67	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	bz	129	ILE	CA-C-O	-5.37	115.48	121.17
1	bH	213	GLU	CA-C-O	-5.37	114.86	120.55
1	bK	87	HIS	N-CA-C	5.37	117.22	110.24
1	bW	77	ALA	CA-C-N	5.37	127.79	120.54
1	bW	77	ALA	C-N-CA	5.37	127.79	120.54
1	bZ	126	VAL	CA-CB-CG1	-5.37	101.27	110.40
1	c8	166	ASP	CA-CB-CG	-5.37	107.23	112.60
1	ca	175	GLU	N-CA-C	5.37	118.23	110.28
1	cd	107	THR	N-CA-C	5.37	120.50	113.30
1	cn	132	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	1e	168	PHE	N-CA-C	-5.37	105.32	111.07
1	cq	154	ARG	N-CA-C	5.37	117.24	108.76
1	cO	144	MET	N-CA-C	5.37	119.54	113.15
1	1h	212	GLU	CA-C-N	5.37	127.74	120.38
1	1h	212	GLU	C-N-CA	5.37	127.74	120.38
1	d1	100	ARG	O-C-N	-5.37	115.54	122.20
1	d5	53	ASN	CA-C-O	-5.37	114.86	120.55
1	dp	18	ARG	CA-C-N	5.37	127.42	120.44
1	dp	18	ARG	C-N-CA	5.37	127.42	120.44
1	dq	229	ARG	NE-CZ-NH2	-5.37	114.37	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dx	8	GLY	O-C-N	-5.37	116.77	122.95
1	eP	79	GLU	N-CA-C	5.37	117.13	111.28
1	eQ	55	MET	CG-SD-CE	-5.37	89.09	100.90
1	f1	32	PHE	N-CA-C	-5.37	106.04	112.59
1	1y	220	GLY	N-CA-C	-5.37	107.91	115.32
1	1z	23	TRP	N-CA-C	5.37	116.82	111.07
1	g1	1	PRO	CB-CA-C	5.37	120.30	110.10
1	g2	182	LYS	O-C-N	-5.37	116.43	122.12
1	1B	18	ARG	CD-NE-CZ	5.37	131.92	124.40
1	n	46	GLY	O-C-N	-5.37	115.70	122.41
1	D	223	GLY	CA-C-N	5.37	126.55	119.84
1	D	223	GLY	C-N-CA	5.37	126.55	119.84
1	go	136	LEU	CA-C-O	5.37	126.24	120.55
1	gp	226	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	1D	132	ARG	N-CA-C	5.37	117.83	111.33
1	gu	143	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	gw	14	ALA	O-C-N	-5.37	117.05	123.06
1	gy	23	TRP	CA-C-N	5.37	127.53	120.60
1	gy	23	TRP	C-N-CA	5.37	127.53	120.60
1	gR	57	ASN	CA-CB-CG	-5.37	107.23	112.60
1	gU	154	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	h7	93	PRO	CA-C-O	-5.37	115.06	122.15
1	h8	72	THR	CA-CB-OG1	-5.37	101.55	109.60
1	h8	74	ASN	N-CA-C	5.37	117.88	111.71
1	hc	35	GLU	N-CA-C	5.37	119.31	112.87
1	hl	110	THR	CA-CB-OG1	5.37	117.65	109.60
1	hs	70	LYS	N-CA-C	5.37	117.13	111.28
1	hu	215	MET	N-CA-CB	-5.37	101.95	110.22
1	hB	164	TYR	CA-C-O	-5.37	115.16	120.90
1	hC	129	ILE	N-CA-CB	5.37	116.83	110.55
1	hF	82	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	hM	22	ALA	O-C-N	5.37	127.60	122.07
1	hP	55	MET	CB-CA-C	5.37	119.40	110.81
1	hS	17	PRO	CA-C-N	5.37	127.74	120.38
1	hS	17	PRO	C-N-CA	5.37	127.74	120.38
1	i9	98	GLU	CA-C-N	5.37	125.29	119.76
1	i9	98	GLU	C-N-CA	5.37	125.29	119.76
1	i9	142	VAL	CA-C-N	5.37	127.91	120.29
1	i9	142	VAL	C-N-CA	5.37	127.91	120.29
1	ia	167	ARG	CA-C-N	5.37	127.42	120.44
1	ia	167	ARG	C-N-CA	5.37	127.42	120.44
1	ic	161	PHE	CA-CB-CG	5.37	119.17	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ie	226	HIS	O-C-N	-5.37	116.60	122.67
1	if	141	ILE	O-C-N	-5.37	116.66	121.87
1	in	73	ILE	CB-CG1-CD1	5.37	125.08	113.80
1	1P	127	GLY	CA-C-N	5.37	127.47	120.28
1	1P	127	GLY	C-N-CA	5.37	127.47	120.28
1	it	139	ASN	CA-C-N	5.37	127.91	120.29
1	it	139	ASN	C-N-CA	5.37	127.91	120.29
1	iu	54	THR	N-CA-C	5.37	117.55	111.11
1	ix	172	LEU	CA-C-N	5.37	127.47	120.28
1	ix	172	LEU	C-N-CA	5.37	127.47	120.28
1	iz	168	PHE	O-C-N	-5.37	116.54	122.07
1	iG	177	ALA	N-CA-C	5.37	117.46	110.43
1	iJ	19	THR	N-CA-C	5.37	116.81	111.07
1	iP	124	ILE	CA-CB-CG2	5.37	119.63	110.50
1	iR	24	VAL	CA-C-O	-5.37	115.16	120.85
1	iR	42	ALA	O-C-N	-5.37	116.54	122.07
1	jb	131	LYS	N-CA-C	5.37	117.83	111.33
1	jp	192	GLN	O-C-N	-5.37	116.54	122.07
1	jr	89	GLY	O-C-N	-5.37	116.40	121.77
1	jy	27	VAL	N-CA-CB	5.37	117.84	110.54
1	jz	67	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	jK	136	LEU	N-CA-CB	5.37	117.98	109.82
1	jP	66	MET	CA-C-O	5.37	126.24	120.55
1	1Y	125	PRO	N-CA-CB	-5.37	99.25	102.79
1	jR	160	PRO	N-CA-C	5.37	123.53	112.47
1	jV	206	GLY	CA-C-N	5.37	125.06	119.64
1	jV	206	GLY	C-N-CA	5.37	125.06	119.64
1	20	226	HIS	CA-CB-CG	5.37	119.17	113.80
1	ka	67	GLN	CA-C-N	5.37	127.91	120.29
1	ka	67	GLN	C-N-CA	5.37	127.91	120.29
1	kp	207	PRO	CB-CA-C	5.37	117.82	110.52
1	22	37	ILE	CA-C-N	5.37	125.01	119.05
1	22	37	ILE	C-N-CA	5.37	125.01	119.05
1	ku	72	THR	O-C-N	-5.37	116.03	122.15
1	ku	223	GLY	CA-C-N	5.37	125.67	119.93
1	ku	223	GLY	C-N-CA	5.37	125.67	119.93
1	kv	146	SER	O-C-N	-5.37	116.64	121.31
1	kI	88	ALA	N-CA-CB	-5.37	102.68	110.36
1	kT	44	SER	CA-C-N	5.37	127.73	120.38
1	kT	44	SER	C-N-CA	5.37	127.73	120.38
1	la	66	MET	N-CA-C	5.37	117.55	111.11
1	lg	199	LYS	O-C-N	-5.37	116.43	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lh	32	PHE	N-CA-CB	5.37	118.27	109.95
1	ln	86	VAL	CA-C-O	-5.37	116.17	122.13
1	lw	26	VAL	CA-C-O	5.37	126.86	121.17
1	lC	213	GLU	N-CA-C	5.37	117.13	111.28
1	lF	193	ASN	O-C-N	5.37	129.05	122.34
1	lH	133	TRP	N-CA-CB	5.37	118.01	110.12
1	2a	125	PRO	O-C-N	-5.37	114.97	122.11
1	lM	62	HIS	ND1-CG-CD2	5.37	111.47	106.10
1	lO	39	MET	CA-C-N	5.37	127.42	120.44
1	lO	39	MET	C-N-CA	5.37	127.42	120.44
1	2b	196	PRO	N-CA-CB	5.37	108.89	103.25
1	2k	154	ARG	NE-CZ-NH1	5.37	126.87	121.50
1	2m	225	GLY	O-C-N	-5.37	116.21	122.87
1	2r	110	THR	CA-C-N	5.37	127.47	120.28
1	2r	110	THR	C-N-CA	5.37	127.47	120.28
1	2T	18	ARG	CA-C-N	5.37	127.91	120.29
1	2T	18	ARG	C-N-CA	5.37	127.91	120.29
1	2V	35	GLU	CB-CG-CD	5.37	121.73	112.60
1	3m	165	VAL	N-CA-CB	5.37	116.83	110.55
1	3n	186	THR	CA-C-O	5.37	126.46	120.82
1	3q	132	ARG	CA-C-N	5.37	127.91	120.29
1	3q	132	ARG	C-N-CA	5.37	127.91	120.29
1	3t	151	LEU	CA-C-N	5.37	127.91	120.29
1	3t	151	LEU	C-N-CA	5.37	127.91	120.29
1	3B	104	ILE	N-CA-C	5.37	116.14	110.72
1	3D	76	GLU	CA-C-N	5.37	127.79	120.54
1	3D	76	GLU	C-N-CA	5.37	127.79	120.54
1	3R	218	CYS	N-CA-C	5.37	118.53	111.28
1	3S	3	VAL	N-CA-CB	5.37	116.66	110.49
1	3V	30	LYS	CA-C-O	5.37	128.19	120.51
1	41	12	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	4f	47	ALA	O-C-N	-5.37	116.76	123.04
1	4m	146	SER	N-CA-C	5.37	121.67	109.81
1	4G	36	VAL	CA-CB-CG2	5.37	119.53	110.40
1	4H	208	ALA	CA-C-O	5.37	126.17	119.78
1	4Q	200	THR	CA-C-O	5.37	126.17	120.10
1	5f	62	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	5i	130	TYR	CA-C-N	5.37	127.47	120.28
1	5i	130	TYR	C-N-CA	5.37	127.47	120.28
1	5A	167	ARG	CA-C-N	5.37	127.42	120.44
1	5A	167	ARG	C-N-CA	5.37	127.42	120.44
1	5C	182	LYS	CA-C-N	5.37	128.01	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	182	LYS	C-N-CA	5.37	128.01	120.28
1	5S	57	ASN	CB-CA-C	5.37	119.70	110.79
1	6r	86	VAL	CB-CA-C	5.37	118.07	111.25
1	6D	95	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	6G	80	TRP	CA-C-N	5.37	127.42	120.44
1	6G	80	TRP	C-N-CA	5.37	127.42	120.44
1	6H	178	SER	CA-C-N	5.37	127.79	120.54
1	6H	178	SER	C-N-CA	5.37	127.79	120.54
1	6H	184	TRP	N-CA-CB	-5.37	102.23	110.12
1	6N	71	GLU	CB-CG-CD	5.37	121.72	112.60
1	6O	14	ALA	CA-C-N	5.37	128.61	120.77
1	6O	14	ALA	C-N-CA	5.37	128.61	120.77
1	6Q	183	ASN	CA-C-N	5.37	127.47	120.28
1	6Q	183	ASN	C-N-CA	5.37	127.47	120.28
1	6Z	169	TYR	CB-CG-CD2	-5.37	112.75	120.80
1	7c	167	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	7f	84	HIS	CA-C-N	5.37	125.63	119.83
1	7f	84	HIS	C-N-CA	5.37	125.63	119.83
1	7n	47	ALA	N-CA-C	5.37	118.10	110.10
1	7q	119	THR	O-C-N	-5.37	114.96	122.37
1	7z	146	SER	CA-C-O	-5.37	114.70	119.75
1	7D	2	ILE	O-C-N	-5.37	116.83	122.95
1	7F	129	ILE	CA-C-N	5.37	127.91	120.29
1	7F	129	ILE	C-N-CA	5.37	127.91	120.29
1	80	186	THR	N-CA-C	5.37	117.13	111.28
1	82	4	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	83	183	ASN	CA-C-N	5.37	127.91	120.29
1	83	183	ASN	C-N-CA	5.37	127.91	120.29
1	88	85	PRO	N-CA-C	5.37	120.01	111.26
1	8c	179	GLN	CA-C-O	5.37	126.64	120.90
1	8r	216	THR	N-CA-CB	5.37	119.12	110.42
1	8t	187	GLU	O-C-N	-5.37	115.75	122.35
1	8u	219	GLN	CA-C-O	-5.37	115.53	121.33
1	8w	60	GLY	O-C-N	-5.37	116.76	122.67
1	8A	192	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	8L	101	GLY	CA-C-O	5.37	126.28	120.75
1	8M	75	GLU	CA-C-O	5.37	126.11	120.42
1	8P	125	PRO	CA-C-N	5.37	127.32	120.56
1	8P	125	PRO	C-N-CA	5.37	127.32	120.56
1	8P	129	ILE	O-C-N	-5.37	115.73	121.80
1	8P	155	GLN	N-CA-C	5.37	117.46	110.43
1	8X	190	LEU	N-CA-C	5.37	117.13	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Z	44	SER	N-CA-CB	5.37	118.60	110.28
1	90	71	GLU	N-CA-C	5.37	116.81	111.07
1	92	62	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	99	5	ASN	O-C-N	-5.37	114.79	122.41
1	9b	156	GLY	O-C-N	-5.37	117.59	122.42
1	9f	91	ILE	O-C-N	-5.37	116.94	122.63
1	9o	226	HIS	CG-CD2-NE2	5.37	112.57	107.20
1	9u	112	GLN	OE1-CD-NE2	5.37	127.97	122.60
1	9N	84	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	9S	50	GLN	CA-CB-CG	5.37	124.83	114.10
1	9U	48	THR	OG1-CB-CG2	-5.37	98.56	109.30
1	a5	82	ARG	CA-C-O	5.37	126.11	120.42
1	ag	38	PRO	N-CA-C	-5.37	106.54	113.57
1	an	166	ASP	CB-CA-C	5.37	119.98	110.85
1	aw	77	ALA	N-CA-C	5.37	117.13	111.28
1	aH	12	HIS	CA-CB-CG	-5.37	108.43	113.80
1	aK	190	LEU	CA-C-O	5.37	126.46	120.82
1	aL	68	MET	O-C-N	-5.37	116.54	122.07
1	15	162	ARG	N-CA-C	5.37	118.62	111.75
1	be	200	THR	N-CA-CB	5.37	118.49	110.22
1	bj	11	VAL	CA-C-O	-5.37	115.05	121.28
1	by	12	HIS	CG-CD2-NE2	5.37	112.57	107.20
1	bB	230	VAL	N-CA-CB	5.37	118.74	112.35
1	bG	71	GLU	N-CA-CB	5.37	118.11	110.06
1	bS	84	HIS	CA-CB-CG	-5.37	108.43	113.80
1	bW	87	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	c1	206	GLY	CA-C-O	-5.37	113.84	121.52
1	cb	114	GLN	CB-CA-C	5.37	119.31	110.88
1	cc	134	ILE	O-C-N	-5.37	116.45	121.87
1	cf	141	ILE	CA-C-O	5.37	126.86	121.17
1	cp	219	GLN	CA-C-N	5.37	126.60	120.53
1	cp	219	GLN	C-N-CA	5.37	126.60	120.53
1	cq	44	SER	CB-CA-C	-5.37	101.65	110.72
1	cr	88	ALA	N-CA-CB	-5.37	102.29	110.45
1	cw	58	THR	CA-CB-OG1	5.37	117.65	109.60
1	cx	78	ALA	CA-C-N	5.37	127.79	120.54
1	cx	78	ALA	C-N-CA	5.37	127.79	120.54
1	cA	171	THR	OG1-CB-CG2	-5.37	98.56	109.30
1	cB	159	GLU	CA-C-O	-5.37	114.45	120.25
1	1g	9	GLN	CB-CG-CD	5.37	121.72	112.60
1	cM	174	ALA	CB-CA-C	-5.37	101.88	110.79
1	cY	226	HIS	N-CA-C	5.37	116.81	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	57	ASN	O-C-N	-5.37	115.23	122.43
1	1i	2	ILE	CA-CB-CG2	-5.37	101.37	110.50
1	1i	39	MET	N-CA-C	5.37	117.13	111.28
1	d9	110	THR	O-C-N	-5.37	116.93	123.10
1	da	172	LEU	CA-C-O	-5.37	114.73	120.42
1	dm	192	GLN	O-C-N	-5.37	115.14	122.33
1	dq	197	ASP	CA-C-O	-5.37	114.73	120.42
1	ds	74	ASN	CA-CB-CG	5.37	117.97	112.60
1	dt	195	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	dR	20	LEU	N-CA-CB	5.37	118.01	110.12
1	dX	151	LEU	N-CA-C	5.37	118.94	112.93
1	e7	74	ASN	CA-C-O	5.37	126.13	119.79
1	ek	93	PRO	O-C-N	-5.37	116.66	123.10
1	es	16	SER	CB-CA-C	-5.37	101.37	109.26
1	eB	87	HIS	N-CA-C	5.37	118.02	110.23
1	eE	19	THR	N-CA-CB	5.37	117.79	110.01
1	1s	70	LYS	N-CA-C	5.37	117.13	111.28
1	eI	15	ILE	O-C-N	-5.37	116.39	122.72
1	eL	72	THR	CA-CB-OG1	5.37	117.65	109.60
1	eO	120	HIS	CB-CG-ND1	5.37	130.75	122.70
1	eU	80	TRP	CA-C-N	5.37	127.42	120.44
1	eU	80	TRP	C-N-CA	5.37	127.42	120.44
1	1u	83	LEU	N-CA-C	5.37	119.83	113.28
1	f0	208	ALA	CA-C-O	5.37	126.19	119.59
1	f6	182	LYS	CA-C-N	5.37	127.79	120.54
1	f6	182	LYS	C-N-CA	5.37	127.79	120.54
1	f8	128	GLU	N-CA-CB	-5.37	102.03	110.30
1	fm	142	VAL	O-C-N	-5.37	116.30	121.83
1	fr	84	HIS	CA-CB-CG	-5.37	108.43	113.80
1	fC	36	VAL	CA-C-O	5.37	124.35	119.20
1	fI	209	ALA	CA-C-O	5.37	126.14	119.97
1	fK	171	THR	CB-CA-C	-5.37	102.45	110.88
1	fR	87	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	fZ	82	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	g7	140	LYS	N-CA-C	5.37	117.13	111.28
1	l	42	ALA	CA-C-N	5.37	127.91	120.29
1	l	42	ALA	C-N-CA	5.37	127.91	120.29
1	2	195	ASN	CA-C-N	5.37	126.55	119.84
1	2	195	ASN	C-N-CA	5.37	126.55	119.84
1	4	126	VAL	CA-C-N	5.37	125.91	120.00
1	4	126	VAL	C-N-CA	5.37	125.91	120.00
1	O	124	ILE	CB-CA-C	-5.37	104.61	110.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	176	GLN	O-C-N	-5.37	115.66	122.26
1	5	34	PRO	CB-CA-C	-5.37	103.22	110.52
1	6	229	ARG	CA-C-N	5.37	127.33	120.56
1	6	229	ARG	C-N-CA	5.37	127.33	120.56
1	gg	60	GLY	CA-C-O	5.37	124.95	119.10
1	gC	63	GLN	N-CA-C	5.37	117.88	111.71
1	gG	168	PHE	CA-C-N	5.37	127.42	120.44
1	gG	168	PHE	C-N-CA	5.37	127.42	120.44
1	gW	144	MET	N-CA-C	5.37	116.81	111.07
1	h5	54	THR	CA-CB-CG2	5.37	119.62	110.50
1	hx	179	GLN	CA-C-N	5.37	127.47	120.28
1	hx	179	GLN	C-N-CA	5.37	127.47	120.28
1	hy	84	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	hC	158	LYS	CA-C-N	5.37	130.63	121.35
1	hC	158	LYS	C-N-CA	5.37	130.63	121.35
1	hI	26	VAL	N-CA-C	5.37	116.09	110.62
1	hZ	117	TRP	CA-C-O	5.37	126.11	120.42
1	hZ	137	GLY	O-C-N	5.37	127.44	122.13
1	ia	123	PRO	N-CA-C	5.37	119.63	111.15
1	iI	65	ALA	N-CA-C	5.37	117.21	111.36
1	iQ	67	GLN	CA-C-N	5.37	127.42	120.44
1	iQ	67	GLN	C-N-CA	5.37	127.42	120.44
1	iR	35	GLU	CA-C-O	5.37	125.27	119.15
1	j9	186	THR	N-CA-C	5.37	117.13	111.28
1	ji	150	ILE	O-C-N	5.37	127.29	121.87
1	jk	191	VAL	CA-CB-CG1	5.37	119.52	110.40
1	jk	195	ASN	O-C-N	-5.37	115.91	121.60
1	jl	14	ALA	CA-C-N	5.37	128.37	120.91
1	jl	14	ALA	C-N-CA	5.37	128.37	120.91
1	jI	2	ILE	CA-CB-CG1	5.37	119.52	110.40
1	jO	14	ALA	O-C-N	-5.37	116.34	122.89
1	1Y	216	THR	CA-CB-OG1	5.37	117.65	109.60
1	kz	132	ARG	CA-C-O	5.37	126.23	120.70
1	kC	200	THR	CA-C-N	5.37	127.32	120.56
1	kC	200	THR	C-N-CA	5.37	127.32	120.56
1	25	133	TRP	CB-CG-CD2	-5.37	119.29	126.80
1	lb	162	ARG	CA-CB-CG	-5.37	103.36	114.10
1	ln	229	ARG	N-CA-C	-5.37	105.43	112.41
1	ls	153	ILE	O-C-N	-5.37	116.94	122.63
1	lL	123	PRO	CA-C-O	-5.37	115.53	122.13
1	lP	54	THR	N-CA-CB	5.37	117.79	110.01
1	2m	86	VAL	CG1-CB-CG2	-5.37	98.99	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2z	95	GLN	CA-C-N	5.37	130.57	123.00
1	2z	95	GLN	C-N-CA	5.37	130.57	123.00
1	2J	36	VAL	CA-C-N	5.37	123.62	120.24
1	2J	36	VAL	C-N-CA	5.37	123.62	120.24
1	2Z	6	LEU	N-CA-C	5.37	122.23	110.80
1	3c	9	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	3u	133	TRP	N-CA-C	5.37	117.13	111.28
1	3v	41	SER	N-CA-CB	5.37	118.01	110.12
1	3z	210	THR	N-CA-CB	5.37	117.85	109.85
1	49	137	GLY	CA-C-N	5.37	127.47	120.28
1	49	137	GLY	C-N-CA	5.37	127.47	120.28
1	4K	31	ALA	N-CA-CB	5.37	119.56	110.49
1	56	24	VAL	O-C-N	-5.37	116.66	121.87
1	5i	119	THR	N-CA-CB	5.37	118.51	110.19
1	5G	165	VAL	CA-CB-CG1	5.37	119.52	110.40
1	5H	90	PRO	CA-C-N	5.37	127.90	120.49
1	5H	90	PRO	C-N-CA	5.37	127.90	120.49
1	5M	168	PHE	CA-CB-CG	5.37	119.17	113.80
1	5O	188	THR	O-C-N	-5.37	115.59	121.76
1	5V	153	ILE	CA-C-N	5.37	130.99	122.94
1	5V	153	ILE	C-N-CA	5.37	130.99	122.94
1	6s	134	ILE	CB-CA-C	-5.37	104.81	112.22
1	6v	75	GLU	CA-C-O	-5.37	114.73	120.42
1	6A	28	GLU	CA-C-O	5.37	126.64	121.00
1	6U	217	ALA	CA-C-N	5.37	130.25	122.36
1	6U	217	ALA	C-N-CA	5.37	130.25	122.36
1	6Y	87	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	79	34	PRO	N-CA-CB	5.37	108.89	103.25
1	7b	32	PHE	CB-CG-CD1	5.37	129.82	120.70
1	7p	21	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	7B	105	ALA	N-CA-CB	-5.37	102.69	110.47
1	7P	48	THR	CA-CB-OG1	5.37	117.65	109.60
1	7Y	80	TRP	N-CA-C	-5.37	105.12	110.97
1	8b	84	HIS	O-C-N	-5.37	113.98	121.12
1	8i	96	MET	N-CA-CB	5.37	119.38	110.52
1	8j	86	VAL	N-CA-CB	-5.37	105.54	111.66
1	8s	160	PRO	N-CA-CB	5.37	109.45	103.44
1	8t	183	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	8w	87	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	8L	7	GLN	O-C-N	-5.37	116.20	122.96
1	8R	18	ARG	O-C-N	5.37	127.81	122.12
1	8Y	68	MET	O-C-N	-5.37	116.43	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Z	10	MET	CG-SD-CE	-5.37	89.09	100.90
1	95	224	PRO	N-CA-C	5.37	123.53	112.47
1	9I	56	LEU	O-C-N	-5.37	116.54	122.07
1	9Y	15	ILE	N-CA-C	5.37	120.50	109.34
1	ab	162	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	ai	103	ASP	CA-CB-CG	-5.37	107.23	112.60
1	ak	87	HIS	CB-CG-CD2	-5.37	124.22	131.20
1	ax	62	HIS	N-CA-C	5.37	118.98	111.74
1	aH	210	THR	CA-CB-OG1	5.37	117.65	109.60
1	15	19	THR	CA-C-N	5.37	127.42	120.44
1	15	19	THR	C-N-CA	5.37	127.42	120.44
1	br	129	ILE	N-CA-CB	5.37	116.83	110.55
1	by	135	ILE	CA-CB-CG1	5.37	119.52	110.40
1	bz	38	PRO	O-C-N	-5.37	115.02	122.27
1	bE	141	ILE	N-CA-C	5.37	115.57	110.42
1	bW	84	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	c6	124	ILE	O-C-N	-5.37	117.74	121.55
1	c7	203	LYS	CB-CG-CD	5.37	123.64	111.30
1	cg	180	GLU	CB-CG-CD	-5.37	103.48	112.60
1	cg	224	PRO	N-CA-CB	5.37	108.09	103.31
1	cU	212	GLU	O-C-N	-5.37	115.67	122.27
1	cY	205	LEU	N-CA-C	5.37	116.81	111.07
1	1i	57	ASN	CB-CG-ND2	-5.37	108.35	116.40
1	d9	32	PHE	O-C-N	-5.37	115.45	122.59
1	1j	112	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	dj	16	SER	O-C-N	-5.37	116.52	121.30
1	du	179	GLN	CA-C-O	5.37	126.24	120.55
1	dD	85	PRO	CA-C-N	5.37	128.37	120.91
1	dD	85	PRO	C-N-CA	5.37	128.37	120.91
1	dE	188	THR	N-CA-C	5.37	120.17	111.37
1	e6	163	ASP	CA-C-N	5.37	127.42	120.44
1	e6	163	ASP	C-N-CA	5.37	127.42	120.44
1	ec	121	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	en	175	GLU	CB-CG-CD	5.37	121.72	112.60
1	et	177	ALA	N-CA-C	5.37	122.23	110.80
1	eI	129	ILE	N-CA-CB	5.37	117.44	110.57
1	eK	101	GLY	N-CA-C	5.37	119.38	112.83
1	eN	13	GLN	N-CA-C	-5.37	100.96	109.76
1	1u	181	VAL	CA-C-O	5.37	126.86	121.17
1	fs	92	GLU	CB-CG-CD	5.37	121.72	112.60
1	z	172	LEU	CA-C-N	5.37	127.47	120.28
1	z	172	LEU	C-N-CA	5.37	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	58	THR	CA-CB-CG2	5.37	119.62	110.50
1	M	16	SER	O-C-N	-5.37	115.73	121.42
1	R	96	MET	CA-C-N	5.37	128.33	120.71
1	R	96	MET	C-N-CA	5.37	128.33	120.71
1	gc	126	VAL	N-CA-C	5.37	120.50	109.34
1	gd	225	GLY	CA-C-N	5.37	129.36	120.94
1	gd	225	GLY	C-N-CA	5.37	129.36	120.94
1	gf	33	SER	CA-C-O	-5.37	115.56	120.50
1	1C	57	ASN	CA-C-O	5.37	126.14	119.97
1	go	174	ALA	CA-C-O	5.37	125.88	119.60
1	gv	130	TYR	O-C-N	-5.37	116.54	122.07
1	gw	140	LYS	CB-CA-C	-5.37	102.46	110.88
1	gS	159	GLU	CA-C-N	5.37	125.62	119.83
1	gS	159	GLU	C-N-CA	5.37	125.62	119.83
1	gW	14	ALA	N-CA-CB	-5.37	102.99	110.29
1	gX	23	TRP	CA-CB-CG	5.37	123.79	113.60
1	h2	12	HIS	CB-CG-ND1	5.37	130.75	122.70
1	h3	54	THR	N-CA-C	5.37	117.13	111.28
1	h3	170	LYS	N-CA-C	5.37	117.88	111.71
1	hj	150	ILE	CA-CB-CG2	-5.37	101.38	110.50
1	hw	124	ILE	CB-CA-C	-5.37	104.71	111.04
1	hy	110	THR	N-CA-CB	5.37	118.60	110.45
1	hy	132	ARG	CA-C-N	5.37	127.42	120.44
1	hy	132	ARG	C-N-CA	5.37	127.42	120.44
1	1L	58	THR	O-C-N	-5.37	116.43	122.12
1	hO	35	GLU	CA-C-O	5.37	125.96	119.31
1	hS	164	TYR	CA-C-N	5.37	127.81	120.46
1	hS	164	TYR	C-N-CA	5.37	127.81	120.46
1	hZ	114	GLN	N-CA-C	5.37	117.13	111.28
1	ij	119	THR	CA-C-N	5.37	128.33	120.71
1	ij	119	THR	C-N-CA	5.37	128.33	120.71
1	im	208	ALA	CA-C-N	5.37	129.93	121.56
1	im	208	ALA	C-N-CA	5.37	129.93	121.56
1	in	136	LEU	CA-C-O	5.37	126.24	120.55
1	it	158	LYS	CA-C-N	5.37	128.11	120.49
1	it	158	LYS	C-N-CA	5.37	128.11	120.49
1	iv	76	GLU	N-CA-C	5.37	116.81	111.07
1	iw	114	GLN	N-CA-CB	5.37	117.79	110.01
1	iJ	221	VAL	O-C-N	-5.37	117.08	123.03
1	iL	214	MET	N-CA-C	5.37	117.13	111.28
1	1S	64	ALA	CA-C-N	5.37	127.47	120.28
1	1S	64	ALA	C-N-CA	5.37	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iT	182	LYS	N-CA-C	5.37	117.13	111.28
1	iT	191	VAL	CA-C-O	5.37	126.05	120.36
1	1T	184	TRP	O-C-N	-5.37	116.54	122.07
1	ja	135	ILE	CB-CG1-CD1	-5.37	102.53	113.80
1	jc	193	ASN	CB-CA-C	-5.37	101.10	110.17
1	jh	80	TRP	CA-CB-CG	5.37	123.79	113.60
1	jw	138	LEU	O-C-N	-5.37	116.43	122.12
1	jB	212	GLU	CA-C-O	5.37	126.24	120.55
1	22	51	ASP	CA-CB-CG	-5.37	107.23	112.60
1	22	145	TYR	N-CA-C	5.37	119.69	113.20
1	ku	56	LEU	N-CA-C	5.37	116.81	111.07
1	ky	153	ILE	N-CA-CB	-5.37	106.11	111.90
1	kz	102	SER	CA-C-O	5.37	126.42	120.63
1	kC	148	THR	CA-CB-OG1	5.37	117.65	109.60
1	l0	229	ARG	NH1-CZ-NH2	-5.37	112.33	119.30
1	l2	98	GLU	CA-C-N	5.37	126.19	120.13
1	l2	98	GLU	C-N-CA	5.37	126.19	120.13
1	lt	91	ILE	O-C-N	-5.37	116.94	122.63
1	ly	11	VAL	CA-C-O	5.37	125.97	120.39
1	lH	72	THR	O-C-N	-5.37	116.43	122.12
1	lI	111	LEU	CA-C-N	5.37	127.47	120.28
1	lI	111	LEU	C-N-CA	5.37	127.47	120.28
1	lR	208	ALA	N-CA-C	-5.37	106.69	113.18
1	2j	51	ASP	O-C-N	-5.37	116.43	122.12
1	2j	223	GLY	O-C-N	-5.37	116.41	121.77
1	2l	205	LEU	N-CA-C	5.37	116.81	111.07
1	2s	156	GLY	O-C-N	-5.37	117.59	122.42
1	2w	133	TRP	CA-C-N	5.37	127.81	120.46
1	2w	133	TRP	C-N-CA	5.37	127.81	120.46
1	2y	178	SER	O-C-N	-5.37	115.45	122.59
1	2F	7	GLN	OE1-CD-NE2	-5.37	117.23	122.60
1	2M	62	HIS	CB-CG-ND1	-5.37	114.65	122.70
1	2N	86	VAL	N-CA-C	5.37	115.68	108.17
1	2R	13	GLN	CA-C-O	5.37	127.14	120.54
1	2R	62	HIS	CG-ND1-CE1	-5.37	100.18	109.30
1	2X	35	GLU	N-CA-C	-5.37	106.24	112.89
1	2Z	128	GLU	CA-C-N	5.37	127.32	120.56
1	2Z	128	GLU	C-N-CA	5.37	127.32	120.56
1	30	137	GLY	CA-C-N	5.37	127.47	120.28
1	30	137	GLY	C-N-CA	5.37	127.47	120.28
1	34	136	LEU	CA-C-O	5.37	126.24	120.55
1	39	208	ALA	CA-C-N	5.37	131.03	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	39	208	ALA	C-N-CA	5.37	131.03	121.75
1	3c	90	PRO	N-CA-C	5.37	123.52	112.47
1	3k	100	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	3t	214	MET	CA-C-N	5.37	128.00	120.28
1	3t	214	MET	C-N-CA	5.37	128.00	120.28
1	3X	191	VAL	CA-C-N	5.37	127.47	120.28
1	3X	191	VAL	C-N-CA	5.37	127.47	120.28
1	49	93	PRO	CB-CA-C	5.37	118.10	111.23
1	4h	132	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	4o	59	VAL	N-CA-C	5.37	117.18	109.51
1	4s	41	SER	CA-C-N	5.37	127.47	120.28
1	4s	41	SER	C-N-CA	5.37	127.47	120.28
1	4Q	86	VAL	CA-C-N	5.37	128.47	120.90
1	4Q	86	VAL	C-N-CA	5.37	128.47	120.90
1	4R	7	GLN	CA-C-N	5.37	128.50	121.85
1	4R	7	GLN	C-N-CA	5.37	128.50	121.85
1	53	16	SER	N-CA-CB	5.37	118.75	110.01
1	53	51	ASP	CA-C-O	5.37	126.23	120.70
1	59	135	ILE	N-CA-C	5.37	115.99	110.36
1	5e	3	VAL	CA-C-O	-5.37	114.46	120.95
1	5l	120	HIS	CA-CB-CG	5.37	119.17	113.80
1	5m	104	ILE	CA-C-O	5.37	126.31	120.57
1	5y	177	ALA	CA-C-N	5.37	132.85	122.07
1	5y	177	ALA	C-N-CA	5.37	132.85	122.07
1	5D	178	SER	O-C-N	-5.37	116.67	122.79
1	5G	162	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	64	177	ALA	CA-C-O	5.37	127.77	121.87
1	68	99	PRO	O-C-N	-5.37	116.30	122.85
1	6h	123	PRO	CA-C-O	-5.37	115.30	121.36
1	6i	221	VAL	CA-C-O	5.37	126.31	120.57
1	6k	154	ARG	O-C-N	-5.37	117.27	123.33
1	6E	228	ALA	N-CA-CB	5.37	117.86	109.97
1	6J	185	MET	CG-SD-CE	-5.37	89.10	100.90
1	6J	230	VAL	N-CA-CB	-5.37	106.11	111.90
1	6S	79	GLU	CA-C-N	5.37	127.47	120.28
1	6S	79	GLU	C-N-CA	5.37	127.47	120.28
1	6Y	208	ALA	CA-C-N	5.37	128.71	120.82
1	6Y	208	ALA	C-N-CA	5.37	128.71	120.82
1	73	103	ASP	CA-C-N	5.37	127.32	120.56
1	73	103	ASP	C-N-CA	5.37	127.32	120.56
1	78	135	ILE	CA-C-N	5.37	127.47	120.28
1	78	135	ILE	C-N-CA	5.37	127.47	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7b	136	LEU	CA-C-N	5.37	125.90	120.00
1	7b	136	LEU	C-N-CA	5.37	125.90	120.00
1	7j	173	ARG	NE-CZ-NH2	5.37	124.03	119.20
1	7q	167	ARG	CA-C-N	5.37	127.42	120.44
1	7q	167	ARG	C-N-CA	5.37	127.42	120.44
1	7r	92	GLU	CA-C-N	5.37	126.55	119.84
1	7r	92	GLU	C-N-CA	5.37	126.55	119.84
1	7u	146	SER	O-C-N	-5.37	116.19	121.18
1	7w	181	VAL	O-C-N	-5.37	116.65	121.91
1	7z	176	GLN	O-C-N	-5.37	116.93	122.94
1	7G	90	PRO	O-C-N	-5.37	116.54	123.03
1	7H	9	GLN	O-C-N	5.37	129.07	123.06
1	7K	91	ILE	CA-CB-CG1	5.37	119.52	110.40
1	7L	125	PRO	CA-C-N	5.37	128.10	120.53
1	7L	125	PRO	C-N-CA	5.37	128.10	120.53
1	7U	227	LYS	CA-C-O	-5.37	114.96	120.54
1	7V	119	THR	N-CA-C	-5.37	105.38	112.94
1	88	180	GLU	N-CA-C	-5.37	105.34	111.14
1	8c	15	ILE	CA-CB-CG1	5.37	119.52	110.40
1	8h	97	ARG	CA-C-O	-5.37	115.25	121.15
1	8n	174	ALA	CA-C-N	5.37	128.33	120.71
1	8n	174	ALA	C-N-CA	5.37	128.33	120.71
1	8t	53	ASN	O-C-N	-5.37	115.67	122.27
1	8V	102	SER	O-C-N	-5.37	116.08	122.20
1	8Z	12	HIS	ND1-CE1-NE2	5.37	113.77	108.40
1	90	30	LYS	O-C-N	5.37	128.08	122.23
1	90	188	THR	O-C-N	-5.37	115.45	122.59
1	9z	139	ASN	OD1-CG-ND2	5.37	127.97	122.60
1	9H	139	ASN	O-C-N	-5.37	116.43	122.12
1	9J	201	ILE	CB-CG1-CD1	5.37	125.07	113.80
1	9P	82	ARG	N-CA-C	5.37	116.81	111.07
1	9S	82	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	9T	32	PHE	CA-C-N	5.37	127.86	120.67
1	9T	32	PHE	C-N-CA	5.37	127.86	120.67
1	ai	136	LEU	N-CA-C	5.37	117.13	111.28
1	aj	224	PRO	N-CA-CB	5.37	108.32	103.33
1	am	48	THR	CA-C-O	-5.37	113.54	121.27
1	ar	194	ALA	CA-C-N	5.37	128.11	120.49
1	ar	194	ALA	C-N-CA	5.37	128.11	120.49
1	aI	219	GLN	O-C-N	-5.37	115.86	122.25
1	aT	67	GLN	CA-C-N	5.37	128.46	120.31
1	aT	67	GLN	C-N-CA	5.37	128.46	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aV	21	ASN	O-C-N	5.37	127.81	122.12
1	16	191	VAL	N-CA-CB	-5.37	103.06	112.08
1	be	156	GLY	CA-C-N	5.37	126.55	119.84
1	be	156	GLY	C-N-CA	5.37	126.55	119.84
1	bh	171	THR	CA-C-N	5.37	127.91	120.29
1	bh	171	THR	C-N-CA	5.37	127.91	120.29
1	bh	223	GLY	CA-C-N	5.37	126.55	119.84
1	bh	223	GLY	C-N-CA	5.37	126.55	119.84
1	bn	179	GLN	N-CA-C	-5.37	105.43	111.28
1	bo	121	ASN	OD1-CG-ND2	-5.37	117.23	122.60
1	bp	155	GLN	N-CA-CB	-5.37	102.05	110.69
1	br	139	ASN	O-C-N	-5.37	116.43	122.12
1	bt	211	LEU	O-C-N	5.37	127.81	122.12
1	bB	54	THR	CB-CA-C	5.37	119.97	110.85
1	bN	169	TYR	CA-C-N	5.37	127.74	120.44
1	bN	169	TYR	C-N-CA	5.37	127.74	120.44
1	bR	20	LEU	CB-CA-C	5.37	119.70	110.79
1	bY	117	TRP	CB-CG-CD1	-5.37	118.85	126.90
1	c5	16	SER	CA-C-N	5.37	126.55	119.84
1	c5	16	SER	C-N-CA	5.37	126.55	119.84
1	cb	149	SER	N-CA-C	-5.37	102.58	110.52
1	ch	155	GLN	CA-C-N	5.37	130.29	121.87
1	ch	155	GLN	C-N-CA	5.37	130.29	121.87
1	ct	44	SER	N-CA-C	5.37	119.80	112.88
1	cu	90	PRO	N-CA-C	5.37	123.53	112.47
1	cB	37	ILE	CB-CA-C	5.37	120.04	114.35
1	cE	23	TRP	CB-CA-C	5.37	119.31	110.88
1	cE	87	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	cK	127	GLY	O-C-N	-5.37	115.72	122.70
1	cQ	3	VAL	O-C-N	5.37	129.28	122.57
1	cT	154	ARG	O-C-N	5.37	129.37	123.25
1	1h	107	THR	N-CA-CB	5.37	118.10	110.16
1	db	53	ASN	N-CA-C	5.37	117.88	111.71
1	db	202	LEU	N-CA-C	5.37	117.13	111.28
1	dn	84	HIS	CA-C-N	5.37	126.55	119.84
1	dn	84	HIS	C-N-CA	5.37	126.55	119.84
1	dC	11	VAL	CA-C-O	5.37	126.96	120.74
1	dI	178	SER	O-C-N	-5.37	115.45	122.59
1	dN	175	GLU	CA-C-O	5.37	127.04	120.92
1	e1	126	VAL	CA-C-N	5.37	125.90	120.00
1	e1	126	VAL	C-N-CA	5.37	125.90	120.00
1	ea	212	GLU	O-C-N	-5.37	116.54	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	44	SER	N-CA-C	5.37	119.46	113.02
1	eo	226	HIS	CA-C-O	5.37	125.98	119.11
1	ep	98	GLU	CA-C-N	5.37	125.67	119.93
1	ep	98	GLU	C-N-CA	5.37	125.67	119.93
1	eu	168	PHE	O-C-N	-5.37	116.45	122.03
1	eB	82	ARG	NE-CZ-NH2	-5.37	114.37	119.20
1	eB	184	TRP	CB-CG-CD1	-5.37	118.85	126.90
1	eR	55	MET	N-CA-C	5.37	116.81	111.07
1	eU	29	GLU	CB-CG-CD	-5.37	103.48	112.60
1	eV	11	VAL	N-CA-CB	5.37	118.43	111.19
1	fb	64	ALA	O-C-N	-5.37	116.43	122.12
1	fc	212	GLU	O-C-N	-5.37	116.43	122.12
1	ff	82	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	fg	191	VAL	N-CA-CB	-5.37	104.27	110.55
1	fo	143	ARG	CB-CA-C	5.37	119.31	110.88
1	fq	11	VAL	O-C-N	-5.37	117.47	123.26
1	fI	64	ALA	CB-CA-C	-5.37	101.88	110.79
1	fL	134	ILE	CA-C-N	5.37	128.09	120.53
1	fL	134	ILE	C-N-CA	5.37	128.09	120.53
1	1z	35	GLU	N-CA-CB	5.37	118.48	110.22
1	1z	133	TRP	CA-C-N	5.37	127.81	120.46
1	1z	133	TRP	C-N-CA	5.37	127.81	120.46
1	fX	188	THR	CA-CB-OG1	5.37	117.65	109.60
1	fY	80	TRP	CB-CG-CD1	-5.37	118.85	126.90
1	b	53	ASN	CA-CB-CG	-5.37	107.23	112.60
1	1	12	HIS	N-CA-C	5.37	118.81	110.17
1	w	29	GLU	CB-CG-CD	-5.37	103.48	112.60
1	y	84	HIS	CG-CD2-NE2	5.37	112.56	107.20
1	A	143	ARG	NH1-CZ-NH2	-5.37	112.32	119.30
1	K	19	THR	N-CA-CB	5.37	118.01	110.12
1	6	22	ALA	O-C-N	-5.37	116.03	122.15
1	gh	16	SER	N-CA-C	5.36	116.41	109.65
1	gs	132	ARG	CG-CD-NE	-5.36	100.20	112.00
1	gx	37	ILE	CA-C-O	-5.36	112.76	119.95
1	gx	168	PHE	CB-CA-C	5.36	119.30	110.88
1	gy	168	PHE	CB-CG-CD1	-5.36	111.58	120.70
1	gz	115	ILE	CA-C-O	-5.36	114.68	120.47
1	gJ	128	GLU	CB-CG-CD	5.36	121.72	112.60
1	gK	230	VAL	N-CA-CB	5.36	119.88	110.49
1	gP	148	THR	N-CA-CB	5.36	119.55	110.49
1	gY	185	MET	N-CA-C	5.36	117.12	111.28
1	hf	37	ILE	O-C-N	-5.36	116.99	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hj	196	PRO	N-CA-C	5.36	120.90	113.98
1	ht	77	ALA	CA-C-N	5.36	127.41	120.44
1	ht	77	ALA	C-N-CA	5.36	127.41	120.44
1	hL	132	ARG	NE-CZ-NH2	-5.36	114.37	119.20
1	hO	45	GLU	CA-C-N	5.36	130.67	121.07
1	hO	45	GLU	C-N-CA	5.36	130.67	121.07
1	hP	231	LEU	N-CA-CB	5.36	119.62	110.50
1	i4	130	TYR	CB-CA-C	5.36	119.69	110.79
1	ix	33	SER	N-CA-CB	5.36	116.31	111.27
1	ix	77	ALA	N-CA-CB	-5.36	101.96	110.22
1	iz	98	GLU	O-C-N	-5.36	115.92	121.28
1	iD	84	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	iR	44	SER	CA-C-O	5.36	126.16	119.78
1	iT	81	ASP	CA-CB-CG	5.36	117.96	112.60
1	j1	160	PRO	O-C-N	-5.36	116.18	122.99
1	jk	101	GLY	O-C-N	-5.36	116.97	122.17
1	jk	172	LEU	CA-C-N	5.36	127.47	120.28
1	jk	172	LEU	C-N-CA	5.36	127.47	120.28
1	jo	85	PRO	CB-CA-C	5.36	118.37	111.56
1	jr	143	ARG	N-CA-C	5.36	116.81	111.07
1	jt	33	SER	O-C-N	-5.36	116.83	121.71
1	jy	14	ALA	CA-C-N	5.36	127.69	120.50
1	jy	14	ALA	C-N-CA	5.36	127.69	120.50
1	jL	153	ILE	O-C-N	-5.36	116.82	122.67
1	jQ	12	HIS	CB-CG-ND1	5.36	130.75	122.70
1	jT	161	PHE	CB-CA-C	5.36	119.30	110.88
1	jY	162	ARG	NE-CZ-NH2	-5.36	114.37	119.20
1	1Z	63	GLN	CA-C-N	5.36	127.41	120.44
1	1Z	63	GLN	C-N-CA	5.36	127.41	120.44
1	20	12	HIS	N-CA-C	5.36	118.97	109.96
1	ka	167	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
1	kf	220	GLY	CA-C-N	5.36	128.09	122.14
1	kf	220	GLY	C-N-CA	5.36	128.09	122.14
1	ko	40	PHE	CA-C-N	5.36	128.46	120.31
1	ko	40	PHE	C-N-CA	5.36	128.46	120.31
1	ks	219	GLN	O-C-N	-5.36	116.68	123.17
1	ky	2	ILE	CA-CB-CG1	5.36	119.52	110.40
1	kA	193	ASN	O-C-N	-5.36	115.75	122.35
1	kJ	192	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	kK	5	ASN	CB-CG-ND2	5.36	124.44	116.40
1	kM	29	GLU	O-C-N	-5.36	116.55	122.07
1	l0	2	ILE	O-C-N	-5.36	116.87	123.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l4	185	MET	CA-C-O	5.36	126.11	120.42
1	l5	23	TRP	CB-CG-CD2	5.36	134.31	126.80
1	l8	218	CYS	CA-C-N	5.36	130.64	122.65
1	l8	218	CYS	C-N-CA	5.36	130.64	122.65
1	ly	10	MET	O-C-N	-5.36	115.64	122.34
1	lA	26	VAL	CB-CA-C	5.36	118.84	111.97
1	lE	209	ALA	CA-C-O	5.36	125.96	119.31
1	2o	191	VAL	N-CA-CB	-5.36	102.38	111.23
1	2p	179	GLN	CA-C-N	5.36	127.78	120.54
1	2p	179	GLN	C-N-CA	5.36	127.78	120.54
1	2t	207	PRO	N-CD-CG	5.36	111.25	103.20
1	2u	216	THR	O-C-N	-5.36	115.94	122.22
1	2B	82	ARG	CA-C-O	-5.36	114.86	120.55
1	2D	210	THR	CA-C-O	5.36	127.64	121.47
1	2S	84	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	3k	170	LYS	CA-C-O	5.36	126.19	120.24
1	3k	209	ALA	N-CA-C	5.36	117.21	110.24
1	3n	83	LEU	N-CA-CB	-5.36	102.23	110.44
1	3q	226	HIS	N-CA-C	5.36	119.11	111.92
1	3s	64	ALA	CA-C-N	5.36	127.73	120.38
1	3s	64	ALA	C-N-CA	5.36	127.73	120.38
1	3w	55	MET	CG-SD-CE	-5.36	89.10	100.90
1	3w	211	LEU	N-CA-C	5.36	117.13	111.28
1	3z	191	VAL	CA-C-O	5.36	126.53	120.95
1	3N	12	HIS	CB-CG-ND1	5.36	130.75	122.70
1	3O	40	PHE	CA-C-N	5.36	127.41	120.44
1	3O	40	PHE	C-N-CA	5.36	127.41	120.44
1	3U	120	HIS	CA-C-O	-5.36	116.38	122.01
1	3Z	80	TRP	N-CA-C	5.36	117.13	111.28
1	43	164	TYR	CA-C-N	5.36	127.81	120.46
1	43	164	TYR	C-N-CA	5.36	127.81	120.46
1	4b	20	LEU	N-CA-C	5.36	116.81	111.07
1	4p	36	VAL	N-CA-C	5.36	116.09	110.62
1	4r	219	GLN	O-C-N	-5.36	115.46	122.59
1	4s	57	ASN	CA-C-N	5.36	127.47	120.28
1	4s	57	ASN	C-N-CA	5.36	127.47	120.28
1	4w	83	LEU	N-CA-C	5.36	117.82	111.33
1	4x	174	ALA	O-C-N	-5.36	116.55	122.07
1	4y	175	GLU	CA-C-O	-5.36	115.29	121.19
1	4B	171	THR	N-CA-CB	5.36	117.85	110.07
1	4C	68	MET	N-CA-C	5.36	117.13	111.28
1	4D	198	CYS	O-C-N	-5.36	115.90	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	57	ASN	N-CA-C	5.36	117.21	111.36
1	5b	163	ASP	CA-C-N	5.36	127.78	120.54
1	5b	163	ASP	C-N-CA	5.36	127.78	120.54
1	5m	75	GLU	N-CA-CB	-5.36	102.24	110.12
1	5u	186	THR	CA-C-N	5.36	127.41	120.44
1	5u	186	THR	C-N-CA	5.36	127.41	120.44
1	5z	149	SER	O-C-N	-5.36	117.14	123.41
1	5A	201	ILE	CB-CA-C	-5.36	104.84	111.70
1	5R	221	VAL	O-C-N	-5.36	117.41	123.20
1	5T	58	THR	N-CA-CB	5.36	118.48	110.22
1	5Y	45	GLU	N-CA-C	5.36	118.25	110.42
1	66	54	THR	N-CA-C	5.36	117.13	111.28
1	68	120	HIS	O-C-N	-5.36	116.35	122.68
1	6j	66	MET	N-CA-C	5.36	117.12	111.28
1	6m	186	THR	N-CA-C	5.36	117.13	111.28
1	6o	48	THR	N-CA-CB	5.36	116.52	110.03
1	6p	223	GLY	CA-C-O	-5.36	113.85	121.52
1	6v	59	VAL	CA-C-O	5.36	127.45	120.69
1	6w	15	ILE	CA-C-N	5.36	127.85	120.39
1	6w	15	ILE	C-N-CA	5.36	127.85	120.39
1	6E	214	MET	CA-C-N	5.36	129.68	120.72
1	6E	214	MET	C-N-CA	5.36	129.68	120.72
1	6H	18	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	76	145	TYR	O-C-N	-5.36	115.90	122.34
1	78	192	GLN	CG-CD-OE1	5.36	131.53	120.80
1	7a	139	ASN	O-C-N	-5.36	116.55	122.07
1	7g	100	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	7B	144	MET	CA-C-O	5.36	125.81	119.48
1	7I	64	ALA	N-CA-CB	-5.36	101.97	110.28
1	89	229	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
1	8f	210	THR	CA-CB-OG1	5.36	117.64	109.60
1	8o	223	GLY	CA-C-N	5.36	126.55	119.84
1	8o	223	GLY	C-N-CA	5.36	126.55	119.84
1	8J	217	ALA	O-C-N	5.36	129.44	122.89
1	8U	108	THR	CB-CA-C	-5.36	102.33	111.02
1	98	180	GLU	CA-C-N	5.36	127.52	120.60
1	98	180	GLU	C-N-CA	5.36	127.52	120.60
1	9e	130	TYR	CA-CB-CG	5.36	123.55	113.90
1	9i	41	SER	CA-C-N	5.36	128.46	120.31
1	9i	41	SER	C-N-CA	5.36	128.46	120.31
1	9j	197	ASP	CA-CB-CG	-5.36	107.24	112.60
1	9L	100	ARG	N-CA-CB	5.36	118.11	110.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9N	19	THR	CA-CB-CG2	5.36	119.62	110.50
1	9T	21	ASN	CA-CB-CG	5.36	117.96	112.60
1	11	131	LYS	N-CA-CB	-5.36	102.24	110.12
1	am	140	LYS	CA-C-N	-5.36	111.99	120.47
1	am	140	LYS	C-N-CA	-5.36	111.99	120.47
1	bc	48	THR	N-CA-CB	5.36	117.50	109.88
1	bh	161	PHE	O-C-N	-5.36	116.43	122.12
1	bi	184	TRP	CA-C-O	5.36	126.45	120.82
1	bJ	161	PHE	CB-CA-C	5.36	119.69	110.79
1	bQ	133	TRP	O-C-N	-5.36	116.43	122.12
1	1b	26	VAL	N-CA-C	5.36	117.80	111.09
1	c2	86	VAL	N-CA-C	-5.36	100.92	108.27
1	c9	112	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	1d	57	ASN	N-CA-C	5.36	117.88	111.71
1	cj	50	GLN	CB-CA-C	-5.36	101.89	110.79
1	cl	185	MET	CG-SD-CE	-5.36	89.10	100.90
1	cs	118	MET	CG-SD-CE	-5.36	89.10	100.90
1	ct	111	LEU	CA-C-N	5.36	127.47	120.28
1	ct	111	LEU	C-N-CA	5.36	127.47	120.28
1	cx	186	THR	CA-C-N	5.36	131.78	121.54
1	cx	186	THR	C-N-CA	5.36	131.78	121.54
1	cG	102	SER	N-CA-CB	5.36	118.00	110.12
1	cH	218	CYS	N-CA-C	5.36	118.73	111.17
1	d2	176	GLN	CA-C-O	-5.36	113.46	119.95
1	da	24	VAL	CA-C-O	-5.36	115.37	120.95
1	do	168	PHE	N-CA-C	5.36	117.55	111.11
1	dt	48	THR	N-CA-CB	5.36	118.13	110.03
1	dC	132	ARG	CA-C-O	-5.36	115.16	120.90
1	1o	132	ARG	O-C-N	-5.36	116.44	122.12
1	e3	29	GLU	CB-CA-C	-5.36	101.73	110.85
1	ec	30	LYS	O-C-N	-5.36	116.05	122.27
1	ek	104	ILE	O-C-N	5.36	127.30	121.94
1	ep	221	VAL	CA-C-O	5.36	125.74	119.89
1	eq	141	ILE	CA-C-N	5.36	127.52	120.60
1	eq	141	ILE	C-N-CA	5.36	127.52	120.60
1	eu	54	THR	N-CA-CB	5.36	118.10	110.16
1	eE	5	ASN	CA-C-N	5.36	130.53	121.14
1	eE	5	ASN	C-N-CA	5.36	130.53	121.14
1	eO	12	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	eV	21	ASN	CA-C-N	5.36	127.91	120.29
1	eV	21	ASN	C-N-CA	5.36	127.91	120.29
1	eW	179	GLN	CA-C-N	5.36	127.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	179	GLN	C-N-CA	5.36	127.41	120.44
1	f2	129	ILE	N-CA-C	5.36	115.99	110.36
1	f3	50	GLN	CB-CG-CD	5.36	121.72	112.60
1	fa	5	ASN	CA-C-O	5.36	125.26	119.15
1	fe	214	MET	N-CA-C	5.36	117.13	111.28
1	ff	40	PHE	N-CA-C	5.36	116.81	111.07
1	fj	147	PRO	N-CD-CG	5.36	111.25	103.20
1	fv	126	VAL	CB-CA-C	-5.36	103.85	112.16
1	fK	134	ILE	CA-C-O	-5.36	115.48	121.17
1	fO	21	ASN	O-C-N	-5.36	116.30	122.09
1	a	202	LEU	CA-C-N	5.36	127.47	120.28
1	a	202	LEU	C-N-CA	5.36	127.47	120.28
1	e	77	ALA	N-CA-C	5.36	117.13	111.28
1	F	139	ASN	CA-C-N	5.36	127.41	120.44
1	F	139	ASN	C-N-CA	5.36	127.41	120.44
1	I	116	GLY	CA-C-N	5.36	127.91	120.29
1	I	116	GLY	C-N-CA	5.36	127.91	120.29
1	K	151	LEU	N-CA-C	-5.36	106.51	113.16
1	L	158	LYS	CG-CD-CE	5.36	123.64	111.30
1	N	22	ALA	O-C-N	-5.36	116.43	122.12
1	P	143	ARG	N-CA-C	5.36	117.13	111.28
1	7	133	TRP	CA-C-O	-5.36	114.74	120.42
1	8	47	ALA	N-CA-CB	-5.36	101.86	109.85
1	gf	140	LYS	N-CA-C	5.36	119.54	112.89
1	gs	45	GLU	CA-C-O	5.36	125.92	120.88
1	gv	19	THR	N-CA-C	5.36	117.12	111.28
1	gx	148	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	gF	163	ASP	CA-CB-CG	5.36	117.96	112.60
1	gI	177	ALA	CB-CA-C	5.36	118.82	109.65
1	h5	71	GLU	N-CA-C	5.36	116.81	111.07
1	hn	115	ILE	CA-C-N	5.36	125.89	119.94
1	hn	115	ILE	C-N-CA	5.36	125.89	119.94
1	hn	155	GLN	N-CA-C	5.36	117.47	109.59
1	1N	32	PHE	CA-C-N	5.36	127.84	120.39
1	1N	32	PHE	C-N-CA	5.36	127.84	120.39
1	i6	68	MET	N-CA-C	5.36	117.12	111.28
1	i6	69	LEU	CA-C-N	5.36	127.90	120.29
1	i6	69	LEU	C-N-CA	5.36	127.90	120.29
1	iB	100	ARG	CA-CB-CG	-5.36	103.38	114.10
1	iU	92	GLU	N-CA-CB	-5.36	102.28	110.11
1	jx	156	GLY	CA-C-N	5.36	125.00	119.05
1	jx	156	GLY	C-N-CA	5.36	125.00	119.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k9	210	THR	CA-CB-OG1	5.36	117.64	109.60
1	kv	40	PHE	CA-C-N	5.36	127.47	120.28
1	kv	40	PHE	C-N-CA	5.36	127.47	120.28
1	kw	156	GLY	CA-C-N	5.36	126.30	120.83
1	kw	156	GLY	C-N-CA	5.36	126.30	120.83
1	kA	97	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	l1	81	ASP	CA-C-N	5.36	127.73	120.38
1	l1	81	ASP	C-N-CA	5.36	127.73	120.38
1	lj	182	LYS	CA-C-O	-5.36	114.87	120.55
1	lu	137	GLY	N-CA-C	5.36	118.72	112.50
1	lv	184	TRP	N-CA-C	5.36	117.20	111.36
1	ly	49	PRO	N-CA-C	5.36	120.56	113.86
1	lz	79	GLU	CA-C-N	5.36	127.47	120.28
1	lz	79	GLU	C-N-CA	5.36	127.47	120.28
1	lH	78	ALA	CA-C-N	5.36	127.47	120.28
1	lH	78	ALA	C-N-CA	5.36	127.47	120.28
1	2e	50	GLN	O-C-N	-5.36	116.55	122.07
1	2u	21	ASN	N-CA-CB	5.36	117.84	110.07
1	2v	161	PHE	CA-C-N	5.36	127.47	120.28
1	2v	161	PHE	C-N-CA	5.36	127.47	120.28
1	2B	80	TRP	CE2-CD2-CE3	5.36	124.16	118.80
1	2D	69	LEU	CA-C-N	5.36	127.90	120.29
1	2D	69	LEU	C-N-CA	5.36	127.90	120.29
1	2K	55	MET	O-C-N	-5.36	116.44	122.12
1	2M	212	GLU	CA-C-N	5.36	127.41	120.44
1	2M	212	GLU	C-N-CA	5.36	127.41	120.44
1	2T	75	GLU	CB-CG-CD	5.36	121.72	112.60
1	2Z	183	ASN	CA-CB-CG	5.36	117.96	112.60
1	37	6	LEU	CA-C-O	5.36	126.61	119.59
1	3d	210	THR	CA-C-O	-5.36	115.87	121.55
1	3e	139	ASN	CA-C-O	-5.36	115.19	120.82
1	3T	122	PRO	CA-C-N	5.36	126.12	120.11
1	3T	122	PRO	C-N-CA	5.36	126.12	120.11
1	4o	209	ALA	O-C-N	-5.36	115.46	122.59
1	4V	183	ASN	N-CA-C	5.36	117.20	111.36
1	52	24	VAL	CA-C-O	-5.36	115.49	121.17
1	57	195	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	5g	66	MET	O-C-N	-5.36	116.51	122.09
1	5A	137	GLY	CA-C-O	5.36	126.20	120.30
1	5K	12	HIS	CA-CB-CG	5.36	119.16	113.80
1	5M	203	LYS	CA-C-N	5.36	127.41	120.44
1	5M	203	LYS	C-N-CA	5.36	127.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5O	213	GLU	N-CA-C	5.36	117.12	111.28
1	5Q	86	VAL	CA-CB-CG1	5.36	119.52	110.40
1	5U	113	GLU	CA-C-O	5.36	126.10	120.42
1	69	26	VAL	CA-C-N	5.36	129.01	122.63
1	69	26	VAL	C-N-CA	5.36	129.01	122.63
1	6l	29	GLU	CB-CG-CD	5.36	121.72	112.60
1	6Y	195	ASN	CA-C-O	-5.36	114.71	119.75
1	72	121	ASN	CB-CA-C	5.36	117.31	110.13
1	7g	54	THR	CA-C-O	-5.36	115.16	120.90
1	7p	204	ALA	O-C-N	-5.36	115.25	122.43
1	7q	52	LEU	CA-C-N	5.36	127.47	120.28
1	7q	52	LEU	C-N-CA	5.36	127.47	120.28
1	7w	109	SER	CA-C-O	5.36	126.83	120.66
1	7J	213	GLU	O-C-N	-5.36	116.44	122.12
1	8E	168	PHE	CA-CB-CG	5.36	119.16	113.80
1	8L	66	MET	O-C-N	5.36	127.80	122.12
1	8U	130	TYR	CA-C-N	5.36	128.00	120.28
1	8U	130	TYR	C-N-CA	5.36	128.00	120.28
1	8W	132	ARG	O-C-N	-5.36	116.44	122.12
1	9w	121	ASN	O-C-N	-5.36	115.17	121.23
1	9H	191	VAL	CA-C-O	5.36	124.88	119.20
1	9U	16	SER	O-C-N	-5.36	114.37	121.34
1	9X	169	TYR	N-CA-CB	5.36	117.79	110.01
1	9X	224	PRO	CA-C-N	5.36	126.77	121.57
1	9X	224	PRO	C-N-CA	5.36	126.77	121.57
1	a6	84	HIS	O-C-N	5.36	126.30	121.42
1	10	10	MET	N-CA-C	5.36	117.45	109.25
1	ae	42	ALA	O-C-N	-5.36	114.60	122.43
1	ae	80	TRP	CE2-CD2-CE3	5.36	124.16	118.80
1	aQ	72	THR	CA-C-O	-5.36	115.17	121.07
1	bx	212	GLU	CA-C-O	5.36	126.97	121.07
1	bL	105	ALA	N-CA-C	5.36	118.04	111.82
1	bQ	196	PRO	CA-C-N	5.36	127.73	120.44
1	bQ	196	PRO	C-N-CA	5.36	127.73	120.44
1	bX	201	ILE	CA-C-N	5.36	127.47	120.28
1	bX	201	ILE	C-N-CA	5.36	127.47	120.28
1	c6	1	PRO	N-CA-CB	5.36	108.90	103.00
1	cw	141	ILE	N-CA-C	5.36	117.79	111.09
1	1h	49	PRO	CB-CA-C	5.36	121.97	112.64
1	cX	117	TRP	N-CA-C	5.36	117.54	111.11
1	de	104	ILE	N-CA-CB	5.36	116.82	110.55
1	dm	105	ALA	CA-C-N	5.36	130.93	122.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dm	105	ALA	C-N-CA	5.36	130.93	122.51
1	dz	178	SER	CA-C-N	5.36	128.00	120.28
1	dz	178	SER	C-N-CA	5.36	128.00	120.28
1	dS	87	HIS	O-C-N	-5.36	115.85	122.82
1	1p	118	MET	CA-C-O	5.36	125.97	119.38
1	ee	226	HIS	N-CA-C	5.36	117.12	111.28
1	eC	30	LYS	N-CA-C	5.36	120.50	112.94
1	eK	189	LEU	CB-CA-C	5.36	119.69	110.79
1	fg	132	ARG	O-C-N	-5.36	115.25	122.43
1	fn	114	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	fG	165	VAL	N-CA-CB	5.36	117.83	110.54
1	fI	37	ILE	N-CA-C	5.36	120.46	108.88
1	fO	118	MET	O-C-N	5.36	127.59	122.07
1	fW	183	ASN	CA-CB-CG	-5.36	107.24	112.60
1	1A	211	LEU	CA-C-O	5.36	125.98	119.38
1	a	219	GLN	O-C-N	-5.36	116.96	123.13
1	x	70	LYS	CB-CA-C	-5.36	101.89	110.79
1	H	115	ILE	CB-CA-C	-5.36	103.57	112.26
1	R	68	MET	CB-CA-C	-5.36	101.73	110.85
1	X	18	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
1	gf	226	HIS	CA-CB-CG	5.36	119.16	113.80
1	gw	216	THR	CA-C-N	5.36	130.29	121.39
1	gw	216	THR	C-N-CA	5.36	130.29	121.39
1	gG	68	MET	CA-C-N	5.36	127.72	120.38
1	gG	68	MET	C-N-CA	5.36	127.72	120.38
1	gM	18	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	h3	230	VAL	CA-CB-CG1	5.36	119.51	110.40
1	1H	143	ARG	CA-C-O	-5.36	114.29	120.24
1	h6	107	THR	CA-CB-CG2	-5.36	101.39	110.50
1	hg	223	GLY	CA-C-N	5.36	126.54	119.84
1	hg	223	GLY	C-N-CA	5.36	126.54	119.84
1	hh	139	ASN	CA-C-N	5.36	127.41	120.44
1	hh	139	ASN	C-N-CA	5.36	127.41	120.44
1	hj	202	LEU	CA-C-N	5.36	127.46	120.28
1	hj	202	LEU	C-N-CA	5.36	127.46	120.28
1	hk	57	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	ho	165	VAL	O-C-N	-5.36	116.31	121.83
1	hq	120	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	hs	77	ALA	CB-CA-C	-5.36	101.74	110.85
1	hM	97	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	hR	186	THR	O-C-N	-5.36	116.04	122.15
1	hU	106	GLY	CA-C-O	5.36	124.75	118.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i4	165	VAL	CA-CB-CG1	5.36	119.51	110.40
1	i8	22	ALA	CA-C-N	5.36	127.41	120.44
1	i8	22	ALA	C-N-CA	5.36	127.41	120.44
1	id	185	MET	CA-C-O	-5.36	115.19	120.82
1	iE	138	LEU	N-CA-CB	5.36	118.00	110.12
1	iG	89	GLY	CA-C-N	5.36	126.54	119.84
1	iG	89	GLY	C-N-CA	5.36	126.54	119.84
1	j3	2	ILE	O-C-N	-5.36	116.40	122.72
1	j3	63	GLN	N-CA-C	5.36	116.93	111.14
1	jw	1	PRO	CB-CA-C	5.36	120.29	110.10
1	jy	139	ASN	CA-C-O	-5.36	113.81	119.97
1	jR	49	PRO	O-C-N	5.36	129.88	122.64
1	jV	161	PHE	CA-C-N	5.36	127.72	120.38
1	jV	161	PHE	C-N-CA	5.36	127.72	120.38
1	k1	12	HIS	CA-C-O	5.36	127.16	121.05
1	k6	168	PHE	O-C-N	-5.36	115.46	122.59
1	k6	169	TYR	N-CA-C	5.36	117.82	111.33
1	kb	107	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	kj	31	ALA	N-CA-C	5.36	117.81	111.33
1	kk	148	THR	CA-C-N	5.36	129.36	120.94
1	kk	148	THR	C-N-CA	5.36	129.36	120.94
1	ks	66	MET	N-CA-C	5.36	117.20	111.36
1	kH	137	GLY	CA-C-O	5.36	126.91	120.90
1	kT	151	LEU	O-C-N	-5.36	116.44	122.12
1	25	4	GLN	CG-CD-OE1	5.36	131.52	120.80
1	kY	96	MET	N-CA-CB	5.36	117.84	109.85
1	kY	103	ASP	CA-C-N	5.36	127.80	120.46
1	kY	103	ASP	C-N-CA	5.36	127.80	120.46
1	l7	35	GLU	O-C-N	-5.36	115.42	122.39
1	lc	184	TRP	O-C-N	-5.36	116.55	122.07
1	lC	12	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	lH	161	PHE	N-CA-CB	-5.36	101.67	110.14
1	2f	102	SER	CA-C-O	-5.36	113.46	119.79
1	2m	79	GLU	N-CA-C	5.36	116.81	111.07
1	2x	29	GLU	N-CA-C	5.36	117.94	111.40
1	2A	37	ILE	CA-C-N	5.36	124.87	119.19
1	2A	37	ILE	C-N-CA	5.36	124.87	119.19
1	2G	120	HIS	CA-C-N	5.36	131.60	122.06
1	2G	120	HIS	C-N-CA	5.36	131.60	122.06
1	2T	154	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
1	3h	210	THR	N-CA-CB	5.36	117.79	109.48
1	3j	178	SER	N-CA-C	5.36	117.64	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3v	104	ILE	N-CA-C	5.36	116.09	110.62
1	3x	16	SER	CA-C-N	5.36	125.03	119.56
1	3x	16	SER	C-N-CA	5.36	125.03	119.56
1	3J	161	PHE	CB-CG-CD1	-5.36	111.59	120.70
1	3S	140	LYS	O-C-N	-5.36	116.04	122.15
1	40	73	ILE	CB-CA-C	-5.36	105.11	111.97
1	4b	21	ASN	CA-C-N	5.36	127.46	120.28
1	4b	21	ASN	C-N-CA	5.36	127.46	120.28
1	4b	24	VAL	CA-CB-CG2	-5.36	101.29	110.40
1	4h	12	HIS	N-CA-C	5.36	118.36	109.46
1	4i	52	LEU	CA-C-O	-5.36	114.87	120.55
1	4l	100	ARG	O-C-N	-5.36	116.11	122.65
1	4q	103	ASP	CA-C-N	5.36	127.80	120.46
1	4q	103	ASP	C-N-CA	5.36	127.80	120.46
1	4H	165	VAL	CA-C-N	5.36	127.41	120.44
1	4H	165	VAL	C-N-CA	5.36	127.41	120.44
1	4S	67	GLN	O-C-N	-5.36	115.15	122.33
1	4X	170	LYS	CA-C-N	5.36	127.46	120.28
1	4X	170	LYS	C-N-CA	5.36	127.46	120.28
1	4Y	65	ALA	N-CA-C	5.36	116.81	111.07
1	59	151	LEU	CA-C-N	-5.36	114.16	122.09
1	59	151	LEU	C-N-CA	-5.36	114.16	122.09
1	5d	4	GLN	N-CA-C	-5.36	100.97	109.76
1	5D	199	LYS	CA-C-O	5.36	126.23	120.55
1	5L	229	ARG	CB-CG-CD	5.36	123.63	111.30
1	5S	106	GLY	CA-C-N	5.36	127.90	120.29
1	5S	106	GLY	C-N-CA	5.36	127.90	120.29
1	61	147	PRO	N-CA-CB	5.36	106.33	101.83
1	61	181	VAL	N-CA-C	5.36	116.73	110.62
1	64	101	GLY	N-CA-C	-5.36	108.01	114.66
1	69	30	LYS	CA-C-O	5.36	125.26	119.15
1	6e	132	ARG	NE-CZ-NH2	5.36	124.03	119.20
1	6i	39	MET	N-CA-C	5.36	117.54	111.11
1	6k	59	VAL	O-C-N	5.36	128.14	122.67
1	6t	166	ASP	O-C-N	-5.36	116.44	122.12
1	6v	167	ARG	CA-C-O	5.36	126.64	120.90
1	6v	187	GLU	N-CA-C	5.36	117.20	111.36
1	6z	100	ARG	O-C-N	-5.36	116.06	122.65
1	6C	193	ASN	N-CA-C	-5.36	105.96	112.88
1	6D	53	ASN	CA-CB-CG	-5.36	107.24	112.60
1	6L	200	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	6M	17	PRO	O-C-N	-5.36	115.06	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6V	74	ASN	CA-CB-CG	-5.36	107.24	112.60
1	6Z	125	PRO	CA-C-N	5.36	128.94	120.47
1	6Z	125	PRO	C-N-CA	5.36	128.94	120.47
1	73	63	GLN	CA-C-O	5.36	126.23	120.55
1	7r	33	SER	CA-C-N	5.36	125.43	119.32
1	7r	33	SER	C-N-CA	5.36	125.43	119.32
1	7r	133	TRP	CZ3-CH2-CZ2	-5.36	114.53	121.50
1	7t	111	LEU	N-CA-C	5.36	117.82	111.33
1	7u	148	THR	CA-C-N	5.36	131.94	122.67
1	7u	148	THR	C-N-CA	5.36	131.94	122.67
1	7F	18	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	7I	208	ALA	CA-C-O	-5.36	113.95	120.12
1	7J	64	ALA	N-CA-CB	5.36	117.93	109.94
1	7M	106	GLY	O-C-N	-5.36	117.08	122.65
1	7Y	63	GLN	N-CA-C	5.36	117.82	111.33
1	7Z	112	GLN	O-C-N	-5.36	116.44	122.12
1	82	182	LYS	CA-C-N	5.36	127.41	120.44
1	82	182	LYS	C-N-CA	5.36	127.41	120.44
1	83	130	TYR	CD1-CG-CD2	-5.36	110.06	118.10
1	85	42	ALA	N-CA-C	5.36	118.98	112.23
1	8m	112	GLN	O-C-N	5.36	127.80	122.12
1	8B	53	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	8G	188	THR	N-CA-CB	5.36	119.87	110.27
1	8H	115	ILE	CA-C-N	5.36	125.90	120.00
1	8H	115	ILE	C-N-CA	5.36	125.90	120.00
1	8N	210	THR	O-C-N	-5.36	116.68	122.79
1	8V	56	LEU	N-CA-C	5.36	117.12	111.28
1	8Z	122	PRO	N-CD-CG	-5.36	97.37	103.80
1	90	179	GLN	OE1-CD-NE2	5.36	127.96	122.60
1	9b	226	HIS	CA-C-N	5.36	128.84	120.75
1	9b	226	HIS	C-N-CA	5.36	128.84	120.75
1	9g	112	GLN	N-CA-C	5.36	117.12	111.28
1	9l	39	MET	CA-C-N	5.36	127.78	120.54
1	9l	39	MET	C-N-CA	5.36	127.78	120.54
1	9q	32	PHE	N-CA-C	-5.36	106.61	112.72
1	9x	52	LEU	N-CA-C	5.36	117.12	111.28
1	9K	27	VAL	N-CA-C	5.36	116.13	110.72
1	9P	79	GLU	O-C-N	-5.36	116.44	122.12
1	9W	4	GLN	O-C-N	-5.36	117.63	123.26
1	9Y	211	LEU	O-C-N	-5.36	116.44	122.12
1	a1	120	HIS	O-C-N	-5.36	115.46	122.59
1	a4	62	HIS	CA-CB-CG	-5.36	108.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a7	217	ALA	CA-C-O	5.36	127.16	121.05
1	aa	175	GLU	O-C-N	-5.36	116.28	122.87
1	ac	6	LEU	CB-CA-C	-5.36	98.67	109.55
1	aj	178	SER	CA-C-O	5.36	126.86	121.07
1	ap	138	LEU	CA-C-N	5.36	127.46	120.28
1	ap	138	LEU	C-N-CA	5.36	127.46	120.28
1	at	56	LEU	CA-C-N	5.36	127.72	120.38
1	at	56	LEU	C-N-CA	5.36	127.72	120.38
1	aD	118	MET	N-CA-C	5.36	118.04	111.82
1	aD	219	GLN	CG-CD-OE1	5.36	131.52	120.80
1	aK	118	MET	CA-C-O	5.36	125.96	119.31
1	aQ	64	ALA	CA-C-N	5.36	127.90	120.29
1	aQ	64	ALA	C-N-CA	5.36	127.90	120.29
1	aQ	178	SER	CA-C-N	5.36	127.73	120.44
1	aQ	178	SER	C-N-CA	5.36	127.73	120.44
1	aW	112	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	aY	151	LEU	N-CA-C	5.36	118.04	111.82
1	aZ	126	VAL	N-CA-C	5.36	116.09	110.62
1	b7	94	GLY	O-C-N	-5.36	115.73	122.70
1	b8	164	TYR	N-CA-C	5.36	117.54	111.11
1	bo	202	LEU	O-C-N	-5.36	116.44	122.12
1	bw	81	ASP	N-CA-CB	-5.36	101.97	110.22
1	bB	177	ALA	CA-C-N	5.36	128.46	120.90
1	bB	177	ALA	C-N-CA	5.36	128.46	120.90
1	19	187	GLU	CA-C-N	5.36	128.07	121.64
1	19	187	GLU	C-N-CA	5.36	128.07	121.64
1	bC	13	GLN	CB-CG-CD	5.36	121.71	112.60
1	bG	28	GLU	CA-C-N	5.36	127.41	120.44
1	bG	28	GLU	C-N-CA	5.36	127.41	120.44
1	bG	161	PHE	N-CA-C	5.36	117.82	111.33
1	bQ	187	GLU	N-CA-C	5.36	116.81	110.97
1	1b	219	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	bX	104	ILE	CA-C-O	5.36	126.53	120.95
1	c1	195	ASN	CA-CB-CG	5.36	117.96	112.60
1	c3	10	MET	N-CA-C	5.36	122.22	110.80
1	cm	98	GLU	CA-C-N	5.36	125.67	119.93
1	cm	98	GLU	C-N-CA	5.36	125.67	119.93
1	1e	117	TRP	CD2-CE2-CZ2	-5.36	117.04	122.40
1	cq	4	GLN	N-CA-C	5.36	122.22	110.80
1	1f	126	VAL	CA-C-O	5.36	126.26	120.47
1	cB	176	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	cH	81	ASP	O-C-N	-5.36	116.55	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cO	124	ILE	N-CA-C	-5.36	101.72	108.05
1	d3	102	SER	O-C-N	-5.36	116.44	122.12
1	da	168	PHE	CB-CA-C	-5.36	101.74	110.85
1	dg	145	TYR	O-C-N	-5.36	115.47	122.39
1	di	212	GLU	N-CA-C	5.36	117.12	111.28
1	1k	12	HIS	N-CA-C	-5.36	101.21	109.52
1	1k	109	SER	N-CA-CB	5.36	119.69	110.68
1	dp	230	VAL	CB-CA-C	5.36	120.08	111.29
1	1l	129	ILE	N-CA-C	5.36	116.09	110.62
1	dB	93	PRO	CA-C-O	5.36	126.90	121.27
1	dJ	228	ALA	N-CA-C	5.36	122.22	110.80
1	dN	5	ASN	CB-CA-C	5.36	119.18	109.37
1	1n	13	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	dS	202	LEU	O-C-N	-5.36	116.55	122.07
1	e1	74	ASN	O-C-N	-5.36	116.04	122.15
1	e1	87	HIS	CA-C-O	5.36	127.92	121.65
1	1o	112	GLN	CB-CG-CD	5.36	121.71	112.60
1	e2	64	ALA	CA-C-O	5.36	126.14	119.97
1	eg	159	GLU	N-CA-C	5.36	115.77	109.60
1	ei	79	GLU	CA-C-N	5.36	127.41	120.44
1	ei	79	GLU	C-N-CA	5.36	127.41	120.44
1	et	216	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	ey	82	ARG	N-CA-C	5.36	116.81	111.07
1	eK	37	ILE	N-CA-C	5.36	120.46	108.88
1	eL	169	TYR	CA-CB-CG	-5.36	104.25	113.90
1	f2	151	LEU	O-C-N	-5.36	115.25	122.43
1	f9	145	TYR	N-CA-C	-5.36	106.92	112.93
1	fc	44	SER	CB-CA-C	-5.36	104.63	111.22
1	fd	70	LYS	CA-C-N	5.36	127.90	120.29
1	fd	70	LYS	C-N-CA	5.36	127.90	120.29
1	ff	146	SER	N-CA-C	5.36	116.45	109.64
1	fl	213	GLU	N-CA-C	5.36	117.12	111.28
1	ft	112	GLN	N-CA-CB	5.36	118.52	109.78
1	fM	62	HIS	ND1-CG-CD2	5.36	111.46	106.10
1	fN	2	ILE	CA-C-O	5.36	126.31	120.57
1	fY	161	PHE	N-CA-CB	-5.36	102.30	110.07
1	g0	193	ASN	CA-CB-CG	5.36	117.96	112.60
1	m	109	SER	O-C-N	-5.36	117.27	123.33
1	x	97	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	x	189	LEU	CA-C-N	5.36	127.72	120.38
1	x	189	LEU	C-N-CA	5.36	127.72	120.38
1	F	174	ALA	N-CA-C	-5.36	105.47	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	186	THR	OG1-CB-CG2	-5.36	98.58	109.30
1	L	73	ILE	O-C-N	5.36	127.07	121.87
1	R	144	MET	CG-SD-CE	-5.36	89.11	100.90
1	W	115	ILE	N-CA-C	5.36	117.75	111.05
1	X	95	GLN	CA-C-N	5.36	128.38	120.82
1	X	95	GLN	C-N-CA	5.36	128.38	120.82
1	8	63	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	gf	14	ALA	CA-C-N	5.36	127.89	120.49
1	gf	14	ALA	C-N-CA	5.36	127.89	120.49
1	gn	125	PRO	N-CA-CB	-5.36	98.26	102.28
1	gA	31	ALA	CB-CA-C	-5.36	109.41	115.79
1	1E	215	MET	N-CA-C	5.36	118.04	111.82
1	gQ	98	GLU	N-CA-C	5.36	117.47	110.08
1	ht	40	PHE	CA-CB-CG	5.36	119.16	113.80
1	hL	146	SER	O-C-N	-5.36	115.16	121.32
1	hN	213	GLU	CA-C-N	5.36	127.90	120.29
1	hN	213	GLU	C-N-CA	5.36	127.90	120.29
1	ib	99	PRO	O-C-N	5.36	128.71	123.03
1	im	11	VAL	CB-CA-C	-5.36	104.15	111.33
1	1P	122	PRO	CA-C-N	5.36	125.36	119.89
1	1P	122	PRO	C-N-CA	5.36	125.36	119.89
1	it	163	ASP	CA-C-N	5.36	127.72	120.38
1	it	163	ASP	C-N-CA	5.36	127.72	120.38
1	1Q	65	ALA	N-CA-C	5.36	117.12	111.28
1	iM	110	THR	CA-CB-OG1	5.36	117.64	109.60
1	iR	20	LEU	CB-CA-C	-5.36	102.47	110.88
1	j6	24	VAL	CA-C-N	5.36	127.72	120.38
1	j6	24	VAL	C-N-CA	5.36	127.72	120.38
1	j6	68	MET	N-CA-C	5.36	117.12	111.28
1	j6	146	SER	CA-C-N	5.36	125.44	119.87
1	j6	146	SER	C-N-CA	5.36	125.44	119.87
1	jj	99	PRO	N-CA-C	5.36	120.00	111.26
1	1X	121	ASN	O-C-N	-5.36	116.23	121.38
1	jT	132	ARG	CG-CD-NE	-5.36	100.21	112.00
1	ko	227	LYS	N-CA-C	5.36	118.00	110.23
1	kD	226	HIS	O-C-N	-5.36	116.22	122.81
1	kF	108	THR	CA-C-O	5.36	125.50	119.18
1	kH	55	MET	CA-C-O	-5.36	115.17	120.90
1	kT	195	ASN	O-C-N	-5.36	115.43	121.43
1	ll	218	CYS	N-CA-C	5.36	119.02	111.52
1	lF	156	GLY	CA-C-N	5.36	125.17	119.28
1	lF	156	GLY	C-N-CA	5.36	125.17	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	124	ILE	CA-C-O	-5.36	114.05	119.89
1	lR	200	THR	N-CA-C	5.36	117.54	111.11
1	2x	41	SER	N-CA-C	5.36	116.80	111.07
1	2A	113	GLU	N-CA-CB	5.36	118.09	110.16
1	2A	220	GLY	O-C-N	-5.36	115.58	122.39
1	2E	94	GLY	CA-C-N	5.36	130.29	121.39
1	2E	94	GLY	C-N-CA	5.36	130.29	121.39
1	2J	189	LEU	CA-C-O	5.36	126.23	120.55
1	2X	173	ARG	O-C-N	-5.36	116.44	122.12
1	37	178	SER	CA-CB-OG	5.36	121.82	111.10
1	3a	163	ASP	O-C-N	-5.36	116.04	122.15
1	3D	64	ALA	N-CA-CB	5.36	118.00	110.12
1	3N	179	GLN	CG-CD-NE2	5.36	124.44	116.40
1	4d	208	ALA	O-C-N	-5.36	117.69	123.42
1	4k	12	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	4Q	50	GLN	N-CA-C	5.36	117.12	111.28
1	5a	202	LEU	CA-C-O	5.36	126.23	120.55
1	5t	204	ALA	N-CA-CB	-5.36	102.24	110.12
1	5u	209	ALA	O-C-N	-5.36	117.69	123.42
1	5C	200	THR	CA-CB-CG2	5.36	119.61	110.50
1	5I	18	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	5U	153	ILE	CA-C-N	5.36	131.37	121.94
1	5U	153	ILE	C-N-CA	5.36	131.37	121.94
1	5W	41	SER	CA-C-N	5.36	127.46	120.28
1	5W	41	SER	C-N-CA	5.36	127.46	120.28
1	61	149	SER	O-C-N	-5.36	116.62	122.84
1	62	111	LEU	N-CA-C	5.36	117.12	111.28
1	6L	154	ARG	CA-CB-CG	5.36	124.82	114.10
1	6R	84	HIS	ND1-CE1-NE2	5.36	113.76	108.40
1	6U	28	GLU	CA-C-O	5.36	125.97	119.49
1	75	229	ARG	N-CA-C	5.36	117.20	111.36
1	7d	178	SER	CA-C-N	5.36	128.00	120.28
1	7d	178	SER	C-N-CA	5.36	128.00	120.28
1	7D	68	MET	O-C-N	5.36	127.59	122.07
1	7I	131	LYS	O-C-N	-5.36	115.95	122.22
1	7J	112	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	88	176	GLN	CA-C-N	5.36	129.29	121.31
1	88	176	GLN	C-N-CA	5.36	129.29	121.31
1	8K	201	ILE	CA-C-N	5.36	127.78	120.54
1	8K	201	ILE	C-N-CA	5.36	127.78	120.54
1	8M	66	MET	N-CA-C	5.36	117.12	111.28
1	8U	51	ASP	CB-CA-C	-5.36	102.47	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8X	195	ASN	CB-CA-C	5.36	118.25	109.46
1	91	104	ILE	N-CA-C	5.36	118.62	111.44
1	95	216	THR	CA-CB-CG2	5.36	119.61	110.50
1	9D	40	PHE	O-C-N	-5.36	116.44	122.12
1	9T	166	ASP	CA-C-N	5.36	127.90	120.29
1	9T	166	ASP	C-N-CA	5.36	127.90	120.29
1	a8	5	ASN	CA-CB-CG	-5.36	107.24	112.60
1	ak	62	HIS	ND1-CE1-NE2	5.36	113.76	108.40
1	ap	97	ARG	NH1-CZ-NH2	-5.36	112.33	119.30
1	at	116	GLY	CA-C-N	5.36	127.46	120.28
1	at	116	GLY	C-N-CA	5.36	127.46	120.28
1	12	19	THR	O-C-N	-5.36	116.04	122.15
1	13	100	ARG	O-C-N	-5.36	116.06	122.65
1	aZ	12	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	b3	21	ASN	O-C-N	-5.36	116.04	122.15
1	bQ	128	GLU	CB-CG-CD	5.36	121.71	112.60
1	c2	78	ALA	CA-C-O	-5.36	114.87	120.55
1	cU	199	LYS	O-C-N	-5.36	116.44	122.12
1	cU	216	THR	CA-C-N	5.36	128.84	120.75
1	cU	216	THR	C-N-CA	5.36	128.84	120.75
1	d8	36	VAL	CA-C-N	5.36	124.62	120.33
1	d8	36	VAL	C-N-CA	5.36	124.62	120.33
1	1k	201	ILE	N-CA-C	5.36	115.56	110.42
1	dr	51	ASP	CA-CB-CG	-5.36	107.24	112.60
1	dF	223	GLY	O-C-N	5.36	127.13	121.77
1	dW	166	ASP	N-CA-C	5.36	117.12	111.28
1	e4	133	TRP	N-CA-C	5.36	117.12	111.28
1	e5	35	GLU	CA-C-N	5.36	128.03	120.42
1	e5	35	GLU	C-N-CA	5.36	128.03	120.42
1	er	134	ILE	O-C-N	5.36	127.07	121.87
1	et	66	MET	CA-C-N	5.36	127.41	120.44
1	et	66	MET	C-N-CA	5.36	127.41	120.44
1	eA	151	LEU	CA-C-N	5.36	127.41	120.44
1	eA	151	LEU	C-N-CA	5.36	127.41	120.44
1	eB	134	ILE	N-CA-C	5.36	116.09	110.62
1	1u	193	ASN	CA-CB-CG	-5.36	107.24	112.60
1	fd	160	PRO	N-CA-C	5.36	119.62	111.15
1	ff	129	ILE	N-CA-C	5.36	116.09	110.62
1	fq	75	GLU	CA-C-N	5.36	127.46	120.28
1	fq	75	GLU	C-N-CA	5.36	127.46	120.28
1	fx	21	ASN	CB-CA-C	5.36	119.29	110.88
1	g1	12	HIS	CE1-NE2-CD2	-5.36	103.64	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	159	GLU	CA-C-O	-5.36	114.82	120.02
1	f	166	ASP	CA-C-N	5.36	127.46	120.28
1	f	166	ASP	C-N-CA	5.36	127.46	120.28
1	l	170	LYS	N-CA-C	5.36	117.87	111.71
1	t	194	ALA	O-C-N	-5.36	116.94	122.94
1	M	195	ASN	O-C-N	-5.36	115.78	121.30
1	4	96	MET	CA-C-O	-5.36	115.12	120.96
1	S	200	THR	N-CA-CB	5.36	117.78	110.01
1	gf	39	MET	N-CA-C	5.36	117.12	111.28
1	gf	70	LYS	N-CA-C	5.36	116.80	111.07
1	gg	27	VAL	CB-CA-C	5.36	119.37	112.14
1	gq	85	PRO	CA-C-N	5.36	127.88	120.49
1	gq	85	PRO	C-N-CA	5.36	127.88	120.49
1	gu	128	GLU	CA-C-N	5.36	127.31	120.56
1	gu	128	GLU	C-N-CA	5.36	127.31	120.56
1	gA	214	MET	O-C-N	-5.36	116.55	122.07
1	gN	32	PHE	N-CA-C	5.36	116.97	108.67
1	gV	14	ALA	N-CA-C	5.36	117.64	110.35
1	ha	41	SER	CA-C-N	5.36	127.46	120.28
1	ha	41	SER	C-N-CA	5.36	127.46	120.28
1	hv	82	ARG	CA-C-O	5.36	126.16	120.10
1	hC	143	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	hR	33	SER	CA-C-O	-5.36	114.86	120.70
1	hX	71	GLU	CA-C-N	5.36	127.41	120.44
1	hX	71	GLU	C-N-CA	5.36	127.41	120.44
1	1N	62	HIS	ND1-CE1-NE2	5.36	113.76	108.40
1	i4	18	ARG	O-C-N	-5.36	116.55	122.07
1	1O	199	LYS	O-C-N	-5.36	116.44	122.12
1	ig	156	GLY	O-C-N	-5.36	116.41	121.77
1	iv	120	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	j7	41	SER	O-C-N	-5.36	116.44	122.12
1	j9	62	HIS	ND1-CG-CD2	5.36	111.46	106.10
1	jh	68	MET	O-C-N	-5.36	116.04	122.15
1	jr	155	GLN	CB-CA-C	-5.36	102.21	110.78
1	jC	113	GLU	N-CA-C	-5.36	105.88	112.90
1	1Y	33	SER	N-CA-CB	-5.36	100.83	110.37
1	jS	150	ILE	CA-C-N	5.36	131.22	122.65
1	jS	150	ILE	C-N-CA	5.36	131.22	122.65
1	jV	126	VAL	CA-C-N	5.36	126.84	120.14
1	jV	126	VAL	C-N-CA	5.36	126.84	120.14
1	kb	85	PRO	N-CA-C	5.36	119.64	111.34
1	ke	13	GLN	OE1-CD-NE2	-5.36	117.24	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kf	206	GLY	CA-C-N	5.36	125.36	119.90
1	kf	206	GLY	C-N-CA	5.36	125.36	119.90
1	kx	26	VAL	N-CA-C	5.36	115.99	110.36
1	kA	209	ALA	CA-C-N	5.36	128.70	120.82
1	kA	209	ALA	C-N-CA	5.36	128.70	120.82
1	kO	44	SER	CB-CA-C	-5.36	101.51	110.56
1	l6	112	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	l6	147	PRO	CA-C-N	5.36	129.35	120.94
1	l6	147	PRO	C-N-CA	5.36	129.35	120.94
1	l7	150	ILE	CA-C-N	5.36	127.46	120.28
1	l7	150	ILE	C-N-CA	5.36	127.46	120.28
1	la	218	CYS	N-CA-CB	5.36	119.54	110.49
1	lj	47	ALA	N-CA-C	5.36	117.64	110.35
1	lt	175	GLU	N-CA-C	-5.36	106.25	112.89
1	lG	153	ILE	CA-C-O	5.36	126.30	120.57
1	lH	161	PHE	CA-C-N	5.36	127.77	120.54
1	lH	161	PHE	C-N-CA	5.36	127.77	120.54
1	lN	212	GLU	N-CA-C	5.36	116.80	111.07
1	2f	56	LEU	N-CA-C	5.36	117.12	111.28
1	2n	53	ASN	CA-C-N	5.36	127.46	120.28
1	2n	53	ASN	C-N-CA	5.36	127.46	120.28
1	2z	187	GLU	CG-CD-OE1	5.36	130.72	118.40
1	2A	23	TRP	N-CA-C	5.36	117.87	111.71
1	2K	102	SER	O-C-N	-5.36	115.68	122.27
1	2Y	66	MET	O-C-N	-5.36	116.04	122.15
1	38	26	VAL	CA-C-N	5.36	127.80	120.46
1	38	26	VAL	C-N-CA	5.36	127.80	120.46
1	3a	18	ARG	N-CA-C	-5.36	105.52	111.36
1	3a	57	ASN	CA-C-N	5.36	127.90	120.29
1	3a	57	ASN	C-N-CA	5.36	127.90	120.29
1	3k	191	VAL	CA-C-O	-5.36	115.38	120.95
1	3o	87	HIS	N-CA-C	5.36	118.47	109.95
1	3s	12	HIS	CA-C-N	5.36	130.54	122.99
1	3s	12	HIS	C-N-CA	5.36	130.54	122.99
1	3F	192	GLN	N-CA-C	5.36	117.12	111.28
1	3J	36	VAL	O-C-N	-5.36	117.27	122.09
1	3S	60	GLY	O-C-N	-5.36	115.74	122.70
1	3V	100	ARG	CD-NE-CZ	-5.36	116.90	124.40
1	3Z	67	GLN	CA-C-N	5.36	127.40	120.44
1	3Z	67	GLN	C-N-CA	5.36	127.40	120.44
1	3Z	175	GLU	N-CA-C	5.36	117.20	111.36
1	48	80	TRP	CD2-CE2-CZ2	5.36	127.76	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	215	MET	N-CA-C	5.36	117.12	111.28
1	4a	13	GLN	CG-CD-NE2	5.36	124.44	116.40
1	4b	26	VAL	CA-C-N	5.36	127.80	120.46
1	4b	26	VAL	C-N-CA	5.36	127.80	120.46
1	4j	23	TRP	N-CA-C	-5.36	105.34	111.07
1	4m	134	ILE	N-CA-C	5.36	115.56	110.42
1	4o	133	TRP	CB-CG-CD2	-5.36	119.30	126.80
1	4r	107	THR	N-CA-C	-5.36	106.76	113.72
1	4v	50	GLN	CB-CA-C	5.36	119.68	110.79
1	4C	76	GLU	CA-C-N	5.36	127.46	120.28
1	4C	76	GLU	C-N-CA	5.36	127.46	120.28
1	4D	31	ALA	N-CA-C	5.36	116.80	111.07
1	4I	68	MET	N-CA-C	5.36	117.12	111.28
1	4M	108	THR	CA-C-O	5.36	125.62	119.35
1	55	214	MET	N-CA-CB	5.36	117.78	110.01
1	57	126	VAL	O-C-N	-5.36	116.67	121.87
1	5a	95	GLN	CB-CA-C	5.36	118.67	109.51
1	5b	27	VAL	N-CA-C	5.36	116.08	110.62
1	5c	57	ASN	O-C-N	-5.36	115.31	122.49
1	5h	192	GLN	N-CA-CB	5.36	118.00	110.12
1	5k	70	LYS	N-CA-C	5.36	117.54	111.11
1	5m	162	ARG	N-CA-CB	5.36	118.10	110.06
1	5r	101	GLY	CA-C-N	5.36	128.45	120.31
1	5r	101	GLY	C-N-CA	5.36	128.45	120.31
1	5u	21	ASN	CA-C-N	5.36	127.41	120.44
1	5u	21	ASN	C-N-CA	5.36	127.41	120.44
1	5I	51	ASP	CA-CB-CG	-5.36	107.24	112.60
1	5P	211	LEU	CB-CA-C	5.36	119.68	110.79
1	62	218	CYS	CA-C-N	5.36	130.28	121.39
1	62	218	CYS	C-N-CA	5.36	130.28	121.39
1	66	84	HIS	CA-CB-CG	5.36	119.16	113.80
1	6F	87	HIS	O-C-N	-5.36	115.85	122.82
1	6L	190	LEU	CA-C-O	-5.36	115.18	120.70
1	6M	216	THR	N-CA-CB	5.36	117.95	110.56
1	6T	139	ASN	N-CA-C	5.36	117.81	111.33
1	70	226	HIS	CA-CB-CG	-5.36	108.44	113.80
1	7o	147	PRO	N-CA-C	-5.36	104.55	112.26
1	7y	67	GLN	OE1-CD-NE2	-5.36	117.24	122.60
1	7B	148	THR	O-C-N	-5.36	117.06	123.27
1	7K	136	LEU	N-CA-CB	-5.36	101.96	109.94
1	7W	16	SER	CB-CA-C	5.36	115.90	109.31
1	83	129	ILE	CA-C-O	5.36	126.52	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	88	40	PHE	O-C-N	5.36	127.66	122.09
1	8a	164	TYR	CA-C-O	-5.36	114.87	120.55
1	8a	210	THR	CA-CB-OG1	5.36	117.64	109.60
1	8j	97	ARG	NE-CZ-NH1	-5.36	116.14	121.50
1	8m	191	VAL	CA-C-N	5.36	127.40	120.44
1	8m	191	VAL	C-N-CA	5.36	127.40	120.44
1	8o	28	GLU	N-CA-C	5.36	117.12	111.28
1	8q	224	PRO	N-CA-C	-5.36	101.43	112.47
1	8s	133	TRP	CD2-CE2-CZ2	-5.36	117.04	122.40
1	8C	7	GLN	CA-C-O	-5.36	115.70	121.38
1	8F	55	MET	CA-C-N	5.36	127.41	120.44
1	8F	55	MET	C-N-CA	5.36	127.41	120.44
1	8J	119	THR	O-C-N	-5.36	115.71	122.19
1	8U	85	PRO	N-CA-CB	5.36	107.82	103.32
1	8V	112	GLN	N-CA-CB	5.36	118.00	110.12
1	8Z	117	TRP	N-CA-C	5.36	117.12	111.28
1	93	31	ALA	N-CA-C	5.36	118.03	111.82
1	94	181	VAL	O-C-N	-5.36	116.58	121.94
1	95	146	SER	N-CA-CB	5.36	117.27	110.04
1	97	21	ASN	N-CA-C	5.36	117.87	111.71
1	9p	9	GLN	CG-CD-NE2	5.36	124.44	116.40
1	9s	57	ASN	N-CA-C	5.36	118.03	111.82
1	9s	204	ALA	O-C-N	-5.36	116.04	122.15
1	9w	113	GLU	CA-C-O	5.36	126.10	120.42
1	9F	91	ILE	N-CA-C	5.36	116.16	108.93
1	9W	92	GLU	O-C-N	-5.36	114.83	121.64
1	9Z	52	LEU	N-CA-C	5.36	116.80	111.07
1	9Z	98	GLU	CA-C-O	-5.36	115.12	120.96
1	a7	53	ASN	CA-CB-CG	-5.36	107.24	112.60
1	af	84	HIS	CA-CB-CG	-5.36	108.44	113.80
1	ah	134	ILE	CB-CA-C	-5.36	104.91	112.14
1	ai	45	GLU	CA-C-N	5.36	131.16	120.77
1	ai	45	GLU	C-N-CA	5.36	131.16	120.77
1	al	12	HIS	ND1-CE1-NE2	5.36	113.76	108.40
1	am	167	ARG	O-C-N	-5.36	115.68	122.27
1	aV	185	MET	CA-C-N	5.36	127.90	120.29
1	aV	185	MET	C-N-CA	5.36	127.90	120.29
1	aX	201	ILE	CA-C-N	5.36	127.77	120.54
1	aX	201	ILE	C-N-CA	5.36	127.77	120.54
1	aZ	134	ILE	CA-CB-CG1	5.36	119.51	110.40
1	bc	221	VAL	N-CA-C	5.36	116.57	108.96
1	bm	87	HIS	CE1-NE2-CD2	-5.36	103.64	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bn	12	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	bt	81	ASP	N-CA-C	5.36	119.08	112.54
1	bt	182	LYS	N-CA-C	5.36	117.20	111.36
1	by	81	ASP	CA-C-N	5.36	127.73	120.44
1	by	81	ASP	C-N-CA	5.36	127.73	120.44
1	bF	189	LEU	CA-C-N	5.36	127.41	120.44
1	bF	189	LEU	C-N-CA	5.36	127.41	120.44
1	bI	82	ARG	NE-CZ-NH2	-5.36	114.38	119.20
1	bI	176	GLN	N-CA-CB	-5.36	102.14	110.98
1	c1	120	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	c1	133	TRP	N-CA-CB	5.36	117.92	109.94
1	co	214	MET	CA-C-O	5.36	126.23	120.55
1	cz	13	GLN	CA-C-N	5.36	128.32	120.71
1	cz	13	GLN	C-N-CA	5.36	128.32	120.71
1	cL	61	GLY	CA-C-N	5.36	130.43	122.82
1	cL	61	GLY	C-N-CA	5.36	130.43	122.82
1	cP	55	MET	N-CA-C	5.36	117.12	111.28
1	cS	197	ASP	CA-C-O	5.36	126.11	119.79
1	d8	219	GLN	CB-CG-CD	5.36	121.71	112.60
1	da	133	TRP	CA-C-N	5.36	127.51	120.60
1	da	133	TRP	C-N-CA	5.36	127.51	120.60
1	dd	167	ARG	CA-C-N	5.36	127.77	120.54
1	dd	167	ARG	C-N-CA	5.36	127.77	120.54
1	dd	173	ARG	CA-C-O	5.36	126.10	120.42
1	dl	149	SER	CA-C-O	5.36	126.97	120.81
1	1l	177	ALA	CA-C-N	5.36	128.48	120.87
1	1l	177	ALA	C-N-CA	5.36	128.48	120.87
1	dD	128	GLU	N-CA-C	5.36	117.12	111.28
1	dO	1	PRO	CA-N-CD	-5.36	104.50	112.00
1	dQ	33	SER	CA-C-N	5.36	126.07	120.12
1	dQ	33	SER	C-N-CA	5.36	126.07	120.12
1	dQ	213	GLU	N-CA-CB	5.36	117.78	110.01
1	1n	74	ASN	CB-CG-ND2	-5.36	108.36	116.40
1	ed	214	MET	CG-SD-CE	-5.36	89.11	100.90
1	eg	195	ASN	CA-C-O	-5.36	115.21	119.71
1	en	226	HIS	CA-C-O	5.36	127.08	121.19
1	eG	137	GLY	CA-C-N	5.36	127.90	120.29
1	eG	137	GLY	C-N-CA	5.36	127.90	120.29
1	eL	59	VAL	N-CA-CB	5.36	116.65	110.49
1	eM	36	VAL	CA-C-O	5.36	126.84	121.27
1	eO	110	THR	N-CA-CB	5.36	118.76	110.46
1	f6	214	MET	N-CA-C	5.36	116.80	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fg	20	LEU	CA-C-N	5.36	127.46	120.28
1	fg	20	LEU	C-N-CA	5.36	127.46	120.28
1	fo	107	THR	N-CA-CB	5.36	118.87	110.46
1	fA	132	ARG	O-C-N	-5.36	116.44	122.12
1	fC	150	ILE	CA-C-N	5.36	127.46	120.28
1	fC	150	ILE	C-N-CA	5.36	127.46	120.28
1	fD	198	CYS	CA-C-O	-5.36	115.20	120.82
1	fF	59	VAL	N-CA-CB	5.36	116.65	110.49
1	fQ	142	VAL	CA-CB-CG2	-5.36	101.29	110.40
1	fR	108	THR	N-CA-C	-5.36	106.87	113.41
1	fX	60	GLY	CA-C-N	5.36	126.58	120.53
1	fX	60	GLY	C-N-CA	5.36	126.58	120.53
1	fX	95	GLN	CA-C-O	5.36	127.60	121.28
1	fX	138	LEU	N-CA-C	-5.36	105.44	111.28
1	g0	226	HIS	CA-CB-CG	-5.36	108.44	113.80
1	g6	39	MET	CG-SD-CE	-5.36	89.11	100.90
1	p	155	GLN	CB-CG-CD	-5.36	103.49	112.60
1	u	56	LEU	CA-C-O	5.36	126.44	120.82
1	C	198	CYS	CA-C-N	5.36	127.46	120.28
1	C	198	CYS	C-N-CA	5.36	127.46	120.28
1	F	130	TYR	O-C-N	-5.36	115.95	122.22
1	I	215	MET	CA-C-O	-5.36	114.87	120.55
1	K	71	GLU	CA-C-O	-5.36	114.87	120.55
1	4	170	LYS	CA-C-N	5.36	127.46	120.28
1	4	170	LYS	C-N-CA	5.36	127.46	120.28
1	Q	5	ASN	CA-C-N	5.36	130.35	122.63
1	Q	5	ASN	C-N-CA	5.36	130.35	122.63
1	S	125	PRO	CA-C-O	-5.36	117.35	121.31
1	U	36	VAL	N-CA-CB	5.36	116.82	110.55
1	X	195	ASN	OD1-CG-ND2	5.36	127.96	122.60
1	5	124	ILE	CA-CB-CG1	5.36	119.51	110.40
1	g9	198	CYS	N-CA-C	5.36	117.12	111.28
1	gb	132	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	1C	67	GLN	OE1-CD-NE2	-5.36	117.25	122.60
1	gn	4	GLN	CA-C-O	5.36	127.06	118.92
1	gC	68	MET	CA-C-N	5.36	127.40	120.44
1	gC	68	MET	C-N-CA	5.36	127.40	120.44
1	gC	182	LYS	N-CA-CB	5.36	117.99	110.12
1	gD	113	GLU	CA-C-O	5.36	126.23	120.55
1	gJ	199	LYS	CA-CB-CG	5.36	124.81	114.10
1	gQ	23	TRP	CG-CD2-CE3	5.36	139.26	133.90
1	gS	154	ARG	CB-CG-CD	5.36	123.62	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gT	192	GLN	CB-CG-CD	5.36	121.70	112.60
1	gU	75	GLU	CB-CA-C	5.36	119.36	110.90
1	gY	153	ILE	CB-CA-C	5.36	120.07	111.29
1	h1	230	VAL	N-CA-C	5.36	115.61	108.11
1	h5	123	PRO	N-CA-C	5.36	119.99	111.26
1	1H	114	GLN	N-CA-CB	5.36	117.99	110.12
1	hd	129	ILE	CA-C-N	5.36	127.77	120.54
1	hd	129	ILE	C-N-CA	5.36	127.77	120.54
1	1I	175	GLU	CA-C-O	5.36	127.76	121.87
1	hg	214	MET	CA-C-O	5.36	126.10	120.42
1	hk	99	PRO	CA-C-O	-5.36	115.31	121.36
1	hs	23	TRP	CA-C-N	5.36	127.80	120.46
1	hs	23	TRP	C-N-CA	5.36	127.80	120.46
1	1L	158	LYS	N-CA-C	5.36	116.80	111.07
1	hK	35	GLU	O-C-N	-5.36	114.61	122.43
1	hP	126	VAL	CA-C-N	5.36	125.78	119.94
1	hP	126	VAL	C-N-CA	5.36	125.78	119.94
1	hT	196	PRO	N-CA-C	5.36	123.50	112.47
1	hX	28	GLU	N-CA-C	5.36	117.20	111.36
1	i1	15	ILE	O-C-N	-5.36	116.95	122.63
1	i8	121	ASN	OD1-CG-ND2	5.36	127.95	122.60
1	ih	57	ASN	CA-C-N	5.36	127.72	120.38
1	ih	57	ASN	C-N-CA	5.36	127.72	120.38
1	ih	86	VAL	O-C-N	-5.36	116.84	122.57
1	il	167	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	iN	86	VAL	CB-CA-C	5.36	118.15	110.33
1	j9	229	ARG	CA-C-N	5.36	127.75	120.63
1	j9	229	ARG	C-N-CA	5.36	127.75	120.63
1	je	141	ILE	N-CA-C	5.36	116.08	110.62
1	jf	226	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	jk	17	PRO	CA-C-N	5.36	127.77	120.54
1	jk	17	PRO	C-N-CA	5.36	127.77	120.54
1	1W	187	GLU	CB-CA-C	-5.36	102.11	110.94
1	jG	135	ILE	N-CA-C	5.36	116.73	110.62
1	jH	215	MET	CA-C-N	5.36	127.90	120.29
1	jH	215	MET	C-N-CA	5.36	127.90	120.29
1	jZ	39	MET	CA-C-N	5.36	127.46	120.28
1	jZ	39	MET	C-N-CA	5.36	127.46	120.28
1	k7	9	GLN	CG-CD-NE2	5.36	124.44	116.40
1	k9	77	ALA	N-CA-CB	-5.36	102.25	110.12
1	kf	132	ARG	CD-NE-CZ	-5.36	116.90	124.40
1	ki	98	GLU	CA-C-N	5.36	126.18	120.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ki	98	GLU	C-N-CA	5.36	126.18	120.13
1	km	12	HIS	ND1-CE1-NE2	5.36	113.75	108.40
1	kq	214	MET	O-C-N	-5.36	116.56	122.07
1	kr	149	SER	CA-C-N	5.36	128.93	120.47
1	kr	149	SER	C-N-CA	5.36	128.93	120.47
1	kv	100	ARG	CG-CD-NE	-5.36	100.22	112.00
1	kw	146	SER	CB-CA-C	-5.36	101.24	108.68
1	kD	179	GLN	N-CA-C	-5.36	105.52	111.36
1	kF	81	ASP	CA-C-O	5.36	126.42	120.63
1	kJ	222	GLY	O-C-N	-5.36	116.32	122.91
1	24	96	MET	CG-SD-CE	5.36	112.68	100.90
1	kO	141	ILE	O-C-N	-5.36	116.68	121.87
1	kX	10	MET	N-CA-C	5.36	117.85	110.35
1	kZ	207	PRO	N-CA-C	5.36	123.50	112.47
1	l2	217	ALA	CA-C-N	5.36	130.17	122.35
1	l2	217	ALA	C-N-CA	5.36	130.17	122.35
1	27	155	GLN	N-CA-C	-5.36	99.68	108.41
1	li	154	ARG	NH1-CZ-NH2	-5.36	112.34	119.30
1	ly	51	ASP	CA-C-N	5.36	127.46	120.28
1	ly	51	ASP	C-N-CA	5.36	127.46	120.28
1	lN	124	ILE	N-CA-C	-5.36	102.25	107.55
1	2g	49	PRO	CA-C-N	5.36	127.72	120.38
1	2g	49	PRO	C-N-CA	5.36	127.72	120.38
1	2g	208	ALA	N-CA-C	-5.36	105.88	112.90
1	2r	227	LYS	CB-CA-C	5.36	118.67	109.51
1	2D	80	TRP	CA-C-O	5.36	126.63	120.90
1	2E	168	PHE	N-CA-C	5.36	117.54	111.11
1	2J	98	GLU	CA-C-O	-5.36	114.99	119.76
1	2K	154	ARG	CA-C-O	5.36	127.18	121.45
1	2K	181	VAL	N-CA-C	5.36	115.56	110.42
1	2U	32	PHE	CA-CB-CG	-5.36	108.44	113.80
1	2Z	167	ARG	N-CA-CB	5.36	117.78	110.01
1	36	152	ASP	N-CA-CB	-5.36	102.56	110.49
1	3h	24	VAL	CA-C-N	5.36	128.45	120.31
1	3h	24	VAL	C-N-CA	5.36	128.45	120.31
1	3n	107	THR	CA-C-O	5.36	126.26	119.78
1	3r	7	GLN	N-CA-CB	5.36	118.58	110.28
1	3u	136	LEU	N-CA-C	5.36	117.12	111.28
1	3x	7	GLN	CG-CD-OE1	5.36	131.51	120.80
1	3z	167	ARG	CA-C-N	5.36	128.23	120.79
1	3z	167	ARG	C-N-CA	5.36	128.23	120.79
1	3F	117	TRP	CB-CG-CD1	-5.36	118.87	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	58	THR	CA-C-N	5.36	129.05	121.66
1	3I	58	THR	C-N-CA	5.36	129.05	121.66
1	3Q	196	PRO	N-CA-CB	5.36	108.87	103.25
1	3R	200	THR	CA-CB-OG1	5.36	117.63	109.60
1	3U	192	GLN	CB-CG-CD	5.36	121.70	112.60
1	42	142	VAL	CA-CB-CG2	-5.36	101.30	110.40
1	4w	228	ALA	O-C-N	-5.36	116.97	123.29
1	4F	212	GLU	CA-C-N	5.36	127.40	120.44
1	4F	212	GLU	C-N-CA	5.36	127.40	120.44
1	4G	184	TRP	O-C-N	-5.36	116.05	122.15
1	4J	24	VAL	N-CA-CB	5.36	118.61	110.58
1	4L	228	ALA	O-C-N	-5.36	116.36	122.89
1	4N	183	ASN	CA-C-O	5.36	126.62	121.00
1	4V	199	LYS	N-CA-C	5.36	118.03	111.82
1	51	135	ILE	CB-CA-C	5.36	119.37	112.14
1	55	154	ARG	NE-CZ-NH2	5.36	124.02	119.20
1	58	76	GLU	CB-CA-C	-5.36	101.90	110.79
1	5b	154	ARG	CA-C-O	-5.36	115.50	121.23
1	5f	186	THR	CA-CB-OG1	5.36	117.63	109.60
1	5s	26	VAL	CA-C-N	5.36	127.80	120.46
1	5s	26	VAL	C-N-CA	5.36	127.80	120.46
1	5s	82	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	5w	178	SER	N-CA-C	5.36	118.00	110.23
1	5B	148	THR	O-C-N	-5.36	116.97	123.29
1	5D	184	TRP	CB-CG-CD1	-5.36	118.87	126.90
1	5E	58	THR	CA-C-O	5.36	126.13	119.97
1	5G	62	HIS	ND1-CE1-NE2	5.36	113.75	108.40
1	5T	57	ASN	CA-C-N	5.36	127.99	120.28
1	5T	57	ASN	C-N-CA	5.36	127.99	120.28
1	5U	226	HIS	O-C-N	-5.36	115.68	122.27
1	5V	194	ALA	CA-C-N	5.36	128.79	120.60
1	5V	194	ALA	C-N-CA	5.36	128.79	120.60
1	62	73	ILE	CA-C-N	5.36	127.72	120.38
1	62	73	ILE	C-N-CA	5.36	127.72	120.38
1	66	44	SER	CA-C-O	5.36	125.91	119.43
1	68	195	ASN	O-C-N	-5.36	115.92	121.60
1	6a	229	ARG	CA-C-N	5.36	129.00	122.63
1	6a	229	ARG	C-N-CA	5.36	129.00	122.63
1	6j	67	GLN	O-C-N	-5.36	116.44	122.12
1	6j	143	ARG	CA-C-O	5.36	126.63	120.90
1	6l	214	MET	CA-C-O	-5.36	114.87	120.55
1	6p	198	CYS	CA-C-N	5.36	129.17	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6p	198	CYS	C-N-CA	5.36	129.17	120.60
1	6G	42	ALA	N-CA-C	5.36	118.03	111.82
1	6G	177	ALA	N-CA-C	5.36	122.21	110.80
1	6S	99	PRO	N-CA-C	5.36	119.28	111.03
1	6U	131	LYS	N-CA-C	5.36	117.12	111.28
1	73	23	TRP	CA-C-O	5.36	126.15	120.10
1	79	69	LEU	CA-C-N	5.36	128.85	120.82
1	79	69	LEU	C-N-CA	5.36	128.85	120.82
1	7a	214	MET	CA-C-O	5.36	126.23	120.55
1	7r	62	HIS	ND1-CG-CD2	5.36	111.46	106.10
1	7A	20	LEU	CA-C-O	-5.36	114.87	120.55
1	7A	40	PHE	O-C-N	-5.36	116.05	122.15
1	7D	55	MET	N-CA-C	5.36	116.80	111.07
1	7K	96	MET	CG-SD-CE	-5.36	89.12	100.90
1	7W	200	THR	CA-C-N	5.36	127.80	120.46
1	7W	200	THR	C-N-CA	5.36	127.80	120.46
1	83	93	PRO	O-C-N	-5.36	115.41	122.64
1	8l	136	LEU	N-CA-CB	5.36	117.78	110.01
1	8o	166	ASP	CA-C-O	5.36	126.22	120.70
1	8q	24	VAL	O-C-N	-5.36	116.33	121.90
1	8w	24	VAL	N-CA-C	5.36	116.08	110.62
1	8E	91	ILE	O-C-N	-5.36	115.88	122.57
1	8P	80	TRP	CE2-CD2-CE3	5.36	124.16	118.80
1	8U	40	PHE	N-CA-CB	5.36	117.78	110.01
1	9b	93	PRO	CA-C-N	5.36	131.03	122.25
1	9b	93	PRO	C-N-CA	5.36	131.03	122.25
1	9h	62	HIS	O-C-N	-5.36	115.23	122.41
1	9m	13	GLN	CB-CG-CD	5.36	121.70	112.60
1	9C	136	LEU	N-CA-C	-5.36	105.34	111.07
1	9I	92	GLU	O-C-N	5.36	126.82	121.30
1	9S	78	ALA	CA-C-N	5.36	127.45	120.28
1	9S	78	ALA	C-N-CA	5.36	127.45	120.28
1	9T	95	GLN	CG-CD-NE2	-5.36	108.37	116.40
1	9V	208	ALA	N-CA-C	-5.36	106.42	113.17
1	9W	83	LEU	N-CA-C	5.36	118.03	111.82
1	a3	18	ARG	N-CA-C	5.36	117.12	111.28
1	a6	186	THR	OG1-CB-CG2	-5.36	98.59	109.30
1	10	13	GLN	O-C-N	-5.36	117.14	123.41
1	ai	25	LYS	CA-C-O	5.36	126.23	120.55
1	ai	202	LEU	CA-C-O	5.36	126.23	120.55
1	ak	106	GLY	CA-C-O	5.36	125.72	119.19
1	ak	135	ILE	N-CA-CB	5.36	116.45	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	69	LEU	CA-C-N	5.36	127.46	120.28
1	as	69	LEU	C-N-CA	5.36	127.46	120.28
1	aA	97	ARG	CA-C-O	5.36	128.08	122.03
1	aD	7	GLN	OE1-CD-NE2	5.36	127.96	122.60
1	aF	194	ALA	N-CA-C	5.36	117.45	110.43
1	aH	127	GLY	CA-C-N	5.36	127.99	120.28
1	aH	127	GLY	C-N-CA	5.36	127.99	120.28
1	aK	212	GLU	CA-C-N	5.36	127.89	120.29
1	aK	212	GLU	C-N-CA	5.36	127.89	120.29
1	aQ	97	ARG	CA-C-N	5.36	128.79	120.60
1	aQ	97	ARG	C-N-CA	5.36	128.79	120.60
1	aV	193	ASN	N-CA-C	-5.36	106.61	112.72
1	15	226	HIS	CB-CG-ND1	-5.36	114.67	122.70
1	b5	37	ILE	CA-C-N	5.36	124.87	119.19
1	b5	37	ILE	C-N-CA	5.36	124.87	119.19
1	b8	67	GLN	CB-CG-CD	5.36	121.70	112.60
1	bb	75	GLU	N-CA-C	5.36	117.12	111.28
1	17	41	SER	N-CA-C	5.36	117.12	111.28
1	bu	87	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	bE	43	LEU	N-CA-C	-5.36	106.75	113.28
1	bG	138	LEU	N-CA-C	5.36	117.12	111.28
1	bI	21	ASN	CA-CB-CG	5.36	117.96	112.60
1	bM	140	LYS	CA-C-N	5.36	127.80	120.46
1	bM	140	LYS	C-N-CA	5.36	127.80	120.46
1	bU	114	GLN	N-CA-C	5.36	117.12	111.28
1	bU	118	MET	CA-C-O	-5.36	113.04	119.15
1	c6	162	ARG	CG-CD-NE	-5.36	100.22	112.00
1	c8	177	ALA	N-CA-C	5.36	117.63	110.35
1	c9	18	ARG	NE-CZ-NH2	5.36	124.02	119.20
1	ch	69	LEU	CA-C-O	5.36	126.44	120.82
1	ci	200	THR	O-C-N	5.36	128.26	122.15
1	cu	148	THR	N-CA-C	-5.36	101.04	109.50
1	cw	151	LEU	N-CA-C	5.36	117.12	111.28
1	cz	27	VAL	CA-C-N	5.36	127.89	120.29
1	cz	27	VAL	C-N-CA	5.36	127.89	120.29
1	cz	75	GLU	O-C-N	-5.36	116.44	122.12
1	cD	188	THR	CA-C-N	5.36	127.46	120.28
1	cD	188	THR	C-N-CA	5.36	127.46	120.28
1	cM	130	TYR	N-CA-C	5.36	117.12	111.28
1	cO	51	ASP	CA-C-N	5.36	127.46	120.28
1	cO	51	ASP	C-N-CA	5.36	127.46	120.28
1	cP	189	LEU	CA-C-N	5.36	127.46	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cP	189	LEU	C-N-CA	5.36	127.46	120.28
1	dc	164	TYR	CB-CA-C	5.36	119.78	110.68
1	1j	126	VAL	N-CA-CB	5.36	117.82	110.54
1	di	23	TRP	CB-CG-CD1	-5.36	118.86	126.90
1	dn	203	LYS	N-CA-C	5.36	117.87	111.71
1	dn	220	GLY	CA-C-O	-5.36	118.53	122.23
1	dx	173	ARG	NE-CZ-NH1	5.36	126.86	121.50
1	dz	180	GLU	CA-CB-CG	5.36	124.81	114.10
1	dA	87	HIS	CA-CB-CG	5.36	119.16	113.80
1	dC	85	PRO	CA-C-O	-5.36	110.85	120.60
1	e0	54	THR	CA-C-N	5.36	127.40	120.44
1	e0	54	THR	C-N-CA	5.36	127.40	120.44
1	e6	173	ARG	N-CA-C	5.36	117.12	111.28
1	e8	148	THR	N-CA-C	5.36	117.47	108.96
1	e9	170	LYS	N-CA-C	5.36	117.20	111.36
1	ed	145	TYR	N-CA-CB	-5.36	102.05	110.46
1	eh	23	TRP	CB-CG-CD2	5.36	134.30	126.80
1	em	26	VAL	O-C-N	-5.36	116.33	121.90
1	1r	162	ARG	N-CA-C	5.36	117.81	111.33
1	eA	153	ILE	CA-C-N	5.36	132.78	121.91
1	eA	153	ILE	C-N-CA	5.36	132.78	121.91
1	eE	183	ASN	N-CA-CB	-5.36	101.98	110.28
1	1s	120	HIS	CE1-NE2-CD2	-5.36	103.64	109.00
1	eO	44	SER	N-CA-C	5.36	119.44	113.01
1	eP	120	HIS	ND1-CE1-NE2	5.36	113.75	108.40
1	eP	188	THR	CA-C-N	5.36	128.20	120.38
1	eP	188	THR	C-N-CA	5.36	128.20	120.38
1	eS	164	TYR	CA-C-N	5.36	127.80	120.46
1	eS	164	TYR	C-N-CA	5.36	127.80	120.46
1	eV	177	ALA	N-CA-C	5.36	116.66	108.52
1	f7	167	ARG	O-C-N	-5.36	116.44	122.12
1	fa	1	PRO	CB-CA-C	5.36	120.28	110.10
1	fc	120	HIS	ND1-CG-CD2	-5.36	100.74	106.10
1	fc	183	ASN	N-CA-C	5.36	117.12	111.28
1	fd	121	ASN	O-C-N	-5.36	115.18	121.23
1	fe	167	ARG	O-C-N	5.36	127.80	122.12
1	ff	7	GLN	CA-C-O	5.36	126.13	119.97
1	fX	173	ARG	CB-CA-C	-5.36	101.74	110.85
1	fZ	17	PRO	CB-CA-C	5.36	121.20	112.26
1	g2	160	PRO	CA-C-N	5.36	127.99	120.28
1	g2	160	PRO	C-N-CA	5.36	127.99	120.28
1	g4	54	THR	N-CA-C	-5.36	105.36	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g4	124	ILE	N-CA-C	-5.36	101.73	108.05
1	a	17	PRO	CA-C-N	5.36	127.40	120.44
1	a	17	PRO	C-N-CA	5.36	127.40	120.44
1	a	84	HIS	CG-CD2-NE2	5.36	112.56	107.20
1	f	85	PRO	CA-C-N	5.36	128.59	120.77
1	f	85	PRO	C-N-CA	5.36	128.59	120.77
1	h	21	ASN	OD1-CG-ND2	-5.36	117.24	122.60
1	o	110	THR	N-CA-CB	5.36	118.92	110.56
1	p	82	ARG	CA-C-N	5.36	127.72	120.44
1	p	82	ARG	C-N-CA	5.36	127.72	120.44
1	r	166	ASP	CA-C-O	5.36	126.44	120.82
1	t	100	ARG	CA-C-O	5.36	128.10	121.94
1	u	126	VAL	O-C-N	5.36	127.14	121.89
1	D	13	GLN	CG-CD-NE2	5.36	124.43	116.40
1	E	63	GLN	CB-CA-C	-5.36	101.90	110.79
1	N	213	GLU	CB-CG-CD	-5.36	103.49	112.60
1	N	227	LYS	N-CA-CB	5.36	118.42	110.49
1	hc	189	LEU	N-CA-C	5.35	117.12	111.28
1	hh	130	TYR	CB-CA-C	5.35	119.68	110.79
1	hk	199	LYS	N-CA-C	5.35	117.87	111.71
1	hn	201	ILE	CA-CB-CG1	5.35	119.50	110.40
1	1K	201	ILE	N-CA-C	5.35	116.13	110.72
1	hA	226	HIS	CA-CB-CG	-5.35	108.45	113.80
1	hI	92	GLU	N-CA-C	5.35	121.64	109.81
1	hO	51	ASP	CA-C-N	5.35	127.45	120.28
1	hO	51	ASP	C-N-CA	5.35	127.45	120.28
1	i0	138	LEU	N-CA-CB	5.35	117.99	110.12
1	1R	70	LYS	CB-CG-CD	5.35	123.61	111.30
1	iS	118	MET	O-C-N	-5.35	116.44	122.12
1	iV	51	ASP	CA-C-N	5.35	127.40	120.44
1	iV	51	ASP	C-N-CA	5.35	127.40	120.44
1	iX	155	GLN	N-CA-C	5.35	117.69	109.07
1	j3	74	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	jg	128	GLU	CA-CB-CG	5.35	124.81	114.10
1	jr	144	MET	CA-C-N	5.35	130.95	122.60
1	jr	144	MET	C-N-CA	5.35	130.95	122.60
1	jt	180	GLU	O-C-N	-5.35	115.69	122.27
1	kb	107	THR	N-CA-C	5.35	116.80	111.07
1	kc	146	SER	N-CA-CB	5.35	118.28	110.30
1	kA	185	MET	CA-C-N	5.35	127.72	120.44
1	kA	185	MET	C-N-CA	5.35	127.72	120.44
1	kH	188	THR	O-C-N	-5.35	114.41	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l7	2	ILE	CA-C-O	-5.35	116.23	121.58
1	lw	87	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	lz	51	ASP	CA-CB-CG	-5.35	107.25	112.60
1	lO	181	VAL	CA-C-O	-5.35	115.38	120.95
1	lP	174	ALA	N-CA-C	5.35	117.19	111.36
1	2l	154	ARG	N-CA-C	5.35	118.11	110.24
1	2v	191	VAL	CB-CA-C	-5.35	105.12	111.65
1	2v	192	GLN	N-CA-CB	-5.35	102.24	110.16
1	2D	145	TYR	CA-C-N	5.35	128.09	120.49
1	2D	145	TYR	C-N-CA	5.35	128.09	120.49
1	2F	100	ARG	CA-CB-CG	5.35	124.81	114.10
1	2V	30	LYS	CG-CD-CE	5.35	123.61	111.30
1	2Z	99	PRO	N-CA-C	5.35	119.99	111.26
1	2Z	179	GLN	O-C-N	-5.35	115.43	122.39
1	3O	167	ARG	CA-C-O	5.35	126.23	120.55
1	45	213	GLU	CA-C-O	5.35	126.44	120.82
1	4g	168	PHE	CA-C-N	5.35	127.40	120.44
1	4g	168	PHE	C-N-CA	5.35	127.40	120.44
1	4h	33	SER	O-C-N	-5.35	116.63	121.66
1	4h	41	SER	N-CA-C	-5.35	105.34	111.07
1	4F	168	PHE	CA-CB-CG	5.35	119.15	113.80
1	4H	98	GLU	N-CA-C	-5.35	101.86	109.62
1	4L	98	GLU	CB-CA-C	5.35	118.08	109.41
1	4N	5	ASN	N-CA-CB	-5.35	101.31	111.00
1	4Q	64	ALA	CA-C-O	-5.35	114.75	120.42
1	5a	73	ILE	N-CA-C	5.35	116.08	110.62
1	5h	111	LEU	O-C-N	-5.35	116.44	122.12
1	5u	171	THR	CA-CB-OG1	5.35	117.63	109.60
1	5K	84	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	5U	19	THR	CA-C-O	5.35	126.22	120.70
1	65	129	ILE	N-CA-C	5.35	116.08	110.62
1	6n	168	PHE	CA-C-N	5.35	127.45	120.28
1	6n	168	PHE	C-N-CA	5.35	127.45	120.28
1	6v	103	ASP	CA-C-N	5.35	127.80	120.46
1	6v	103	ASP	C-N-CA	5.35	127.80	120.46
1	6y	9	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	6M	23	TRP	CA-CB-CG	5.35	123.77	113.60
1	7b	173	ARG	N-CA-C	-5.35	106.75	113.28
1	7g	215	MET	CA-C-N	5.35	128.45	120.31
1	7g	215	MET	C-N-CA	5.35	128.45	120.31
1	7v	182	LYS	CA-CB-CG	-5.35	103.39	114.10
1	7D	116	GLY	CA-C-N	5.35	127.45	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7D	116	GLY	C-N-CA	5.35	127.45	120.28
1	7P	2	ILE	CA-C-O	5.35	126.26	120.53
1	8c	168	PHE	N-CA-C	5.35	117.12	111.28
1	8Z	131	LYS	O-C-N	5.35	127.81	122.08
1	96	146	SER	N-CA-CB	5.35	119.04	109.94
1	9v	163	ASP	CA-C-N	5.35	127.99	120.28
1	9v	163	ASP	C-N-CA	5.35	127.99	120.28
1	9D	223	GLY	O-C-N	-5.35	116.42	121.77
1	9L	101	GLY	CA-C-O	5.35	126.56	121.05
1	9T	7	GLN	CA-C-N	5.35	129.20	121.44
1	9T	7	GLN	C-N-CA	5.35	129.20	121.44
1	9T	132	ARG	NH1-CZ-NH2	-5.35	112.34	119.30
1	a7	39	MET	CG-SD-CE	-5.35	89.12	100.90
1	ae	1	PRO	CA-C-N	5.35	128.35	120.91
1	ae	1	PRO	C-N-CA	5.35	128.35	120.91
1	aI	74	ASN	CB-CG-ND2	5.35	124.43	116.40
1	aR	18	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	bA	9	GLN	CB-CA-C	5.35	119.60	109.37
1	bA	159	GLU	CA-C-N	5.35	125.27	119.76
1	bA	159	GLU	C-N-CA	5.35	125.27	119.76
1	bP	64	ALA	N-CA-C	5.35	116.80	111.07
1	bV	219	GLN	CB-CG-CD	5.35	121.70	112.60
1	c5	81	ASP	CA-C-N	5.35	127.72	120.44
1	c5	81	ASP	C-N-CA	5.35	127.72	120.44
1	c7	134	ILE	CA-C-O	5.35	126.52	120.95
1	c8	59	VAL	N-CA-C	5.35	116.16	108.93
1	c9	28	GLU	N-CA-C	5.35	118.03	111.82
1	ca	221	VAL	N-CA-C	5.35	117.58	109.12
1	cj	59	VAL	N-CA-CB	-5.35	104.33	110.49
1	cv	99	PRO	N-CA-CB	5.35	107.96	103.25
1	cW	68	MET	CA-C-N	5.35	127.89	120.29
1	cW	68	MET	C-N-CA	5.35	127.89	120.29
1	df	216	THR	CA-C-N	5.35	130.28	121.39
1	df	216	THR	C-N-CA	5.35	130.28	121.39
1	dw	50	GLN	CA-CB-CG	-5.35	103.39	114.10
1	1l	190	LEU	CA-C-N	5.35	128.02	120.42
1	1l	190	LEU	C-N-CA	5.35	128.02	120.42
1	dD	2	ILE	CA-C-O	5.35	126.30	120.57
1	dH	138	LEU	N-CA-C	5.35	117.12	111.28
1	dJ	82	ARG	CA-C-O	5.35	126.22	120.55
1	dR	22	ALA	N-CA-C	5.35	117.20	111.36
1	e8	200	THR	CA-C-O	-5.35	114.88	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	197	ASP	N-CA-CB	5.35	117.99	110.12
1	eq	92	GLU	CA-C-N	5.35	125.66	119.93
1	eq	92	GLU	C-N-CA	5.35	125.66	119.93
1	ew	22	ALA	CB-CA-C	-5.35	101.90	110.79
1	f5	150	ILE	CA-CB-CG2	-5.35	101.40	110.50
1	fr	167	ARG	N-CA-C	5.35	119.53	112.89
1	1y	175	GLU	CA-C-O	5.35	127.02	120.92
1	g5	32	PHE	CA-CB-CG	-5.35	108.45	113.80
1	g6	121	ASN	CB-CG-ND2	5.35	124.43	116.40
1	x	70	LYS	N-CA-C	5.35	117.11	111.28
1	y	12	HIS	CB-CG-CD2	-5.35	124.24	131.20
1	A	9	GLN	O-C-N	-5.35	116.41	123.16
1	D	28	GLU	N-CA-C	5.35	116.92	111.14
1	S	186	THR	N-CA-C	5.35	117.87	111.71
1	gb	59	VAL	N-CA-C	5.35	116.08	107.73
1	gd	204	ALA	N-CA-C	5.35	116.80	111.07
1	gf	98	GLU	CA-C-N	5.35	126.53	119.84
1	gf	98	GLU	C-N-CA	5.35	126.53	119.84
1	gg	162	ARG	CA-C-N	5.35	127.89	120.29
1	gg	162	ARG	C-N-CA	5.35	127.89	120.29
1	gi	96	MET	CG-SD-CE	-5.35	89.13	100.90
1	gm	80	TRP	CA-C-N	5.35	127.45	120.28
1	gm	80	TRP	C-N-CA	5.35	127.45	120.28
1	gp	12	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	gp	226	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	gv	142	VAL	CA-C-N	5.35	127.45	120.28
1	gv	142	VAL	C-N-CA	5.35	127.45	120.28
1	1E	111	LEU	N-CA-C	5.35	117.53	111.11
1	gG	96	MET	N-CA-C	5.35	118.20	110.28
1	gH	34	PRO	N-CA-C	-5.35	109.11	114.68
1	gV	219	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	gY	193	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	hc	23	TRP	CA-CB-CG	5.35	123.77	113.60
1	hi	205	LEU	CA-C-O	5.35	126.22	120.55
1	hm	209	ALA	N-CA-C	5.35	117.94	109.96
1	hB	41	SER	O-C-N	5.35	127.58	122.07
1	hD	217	ALA	N-CA-C	5.35	118.05	110.50
1	hN	22	ALA	CA-C-N	5.35	127.72	120.44
1	hN	22	ALA	C-N-CA	5.35	127.72	120.44
1	hQ	96	MET	CG-SD-CE	-5.35	89.12	100.90
1	hQ	148	THR	CA-C-N	5.35	130.28	121.39
1	hQ	148	THR	C-N-CA	5.35	130.28	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hR	176	GLN	CB-CA-C	5.35	120.42	109.55
1	hT	176	GLN	CB-CA-C	-5.35	99.77	110.42
1	i8	217	ALA	CA-C-N	5.35	131.76	121.54
1	i8	217	ALA	C-N-CA	5.35	131.76	121.54
1	id	148	THR	CA-CB-CG2	5.35	119.60	110.50
1	ij	131	LYS	CA-C-N	5.35	127.89	120.29
1	ij	131	LYS	C-N-CA	5.35	127.89	120.29
1	is	15	ILE	CB-CA-C	5.35	120.17	111.71
1	iA	142	VAL	CA-C-O	5.35	126.84	121.17
1	j2	224	PRO	N-CA-C	-5.35	107.20	114.80
1	j4	194	ALA	CA-C-N	5.35	128.81	120.68
1	j4	194	ALA	C-N-CA	5.35	128.81	120.68
1	j9	39	MET	CG-SD-CE	-5.35	89.12	100.90
1	jg	167	ARG	NE-CZ-NH2	-5.35	114.38	119.20
1	jl	107	THR	N-CA-C	-5.35	106.92	113.50
1	1W	51	ASP	CA-CB-CG	-5.35	107.25	112.60
1	jx	200	THR	N-CA-C	5.35	117.11	111.28
1	jy	107	THR	N-CA-C	-5.35	106.59	113.23
1	jK	62	HIS	CB-CG-ND1	-5.35	114.67	122.70
1	jP	87	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	jZ	161	PHE	CA-C-O	5.35	126.09	120.42
1	k2	153	ILE	CB-CA-C	-5.35	103.82	111.31
1	k5	140	LYS	CA-C-N	5.35	128.02	120.42
1	k5	140	LYS	C-N-CA	5.35	128.02	120.42
1	kb	81	ASP	CA-CB-CG	-5.35	107.25	112.60
1	kk	5	ASN	O-C-N	-5.35	116.45	122.12
1	kF	22	ALA	O-C-N	-5.35	116.05	122.15
1	kW	195	ASN	CA-C-N	5.35	126.53	119.84
1	kW	195	ASN	C-N-CA	5.35	126.53	119.84
1	lu	72	THR	N-CA-CB	5.35	117.77	110.01
1	lE	15	ILE	CA-CB-CG1	5.35	119.50	110.40
1	2a	65	ALA	CB-CA-C	-5.35	101.75	110.85
1	2g	21	ASN	N-CA-CB	5.35	118.08	110.16
1	2r	48	THR	N-CA-CB	5.35	117.17	109.78
1	2M	83	LEU	O-C-N	-5.35	115.69	122.27
1	2O	39	MET	O-C-N	-5.35	116.44	122.12
1	2U	36	VAL	N-CA-CB	5.35	117.82	110.54
1	2V	97	ARG	O-C-N	-5.35	116.49	122.75
1	32	80	TRP	CA-C-N	5.35	127.45	120.28
1	32	80	TRP	C-N-CA	5.35	127.45	120.28
1	34	162	ARG	N-CA-CB	5.35	117.83	110.07
1	36	204	ALA	N-CA-C	5.35	117.19	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3g	92	GLU	CA-C-N	5.35	126.53	119.84
1	3g	92	GLU	C-N-CA	5.35	126.53	119.84
1	3i	37	ILE	CA-C-N	5.35	124.86	119.19
1	3i	37	ILE	C-N-CA	5.35	124.86	119.19
1	3l	197	ASP	CA-C-O	-5.35	115.20	120.82
1	3o	36	VAL	N-CA-CB	5.35	117.82	110.54
1	3t	120	HIS	CA-CB-CG	5.35	119.15	113.80
1	3E	206	GLY	O-C-N	-5.35	116.42	121.77
1	3G	185	MET	N-CA-C	5.35	117.11	111.28
1	3M	104	ILE	N-CA-C	-5.35	105.16	110.62
1	3P	117	TRP	CB-CG-CD2	5.35	134.29	126.80
1	3U	60	GLY	CA-C-N	5.35	129.35	121.96
1	3U	60	GLY	C-N-CA	5.35	129.35	121.96
1	42	165	VAL	CA-C-O	5.35	126.06	119.58
1	44	162	ARG	CD-NE-CZ	5.35	131.90	124.40
1	49	175	GLU	CA-C-O	5.35	126.42	120.43
1	4d	155	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	4i	143	ARG	N-CA-C	5.35	117.11	111.28
1	4k	7	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	4n	104	ILE	N-CA-C	5.35	115.56	110.53
1	4n	130	TYR	CB-CG-CD2	-5.35	112.77	120.80
1	4E	13	GLN	CA-C-N	5.35	128.45	120.90
1	4E	13	GLN	C-N-CA	5.35	128.45	120.90
1	4G	21	ASN	CA-C-O	5.35	126.09	120.42
1	4L	103	ASP	CA-C-N	5.35	128.08	120.53
1	4L	103	ASP	C-N-CA	5.35	128.08	120.53
1	4O	63	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	4P	53	ASN	CB-CG-ND2	5.35	124.43	116.40
1	5d	145	TYR	CB-CG-CD1	5.35	128.83	120.80
1	5f	30	LYS	O-C-N	5.35	128.21	122.05
1	5f	165	VAL	CA-C-N	5.35	127.40	120.44
1	5f	165	VAL	C-N-CA	5.35	127.40	120.44
1	5p	82	ARG	CG-CD-NE	-5.35	100.22	112.00
1	5q	7	GLN	N-CA-C	-5.35	106.80	113.38
1	5s	220	GLY	O-C-N	-5.35	116.98	122.60
1	5A	62	HIS	ND1-CG-CD2	5.35	111.45	106.10
1	5H	170	LYS	N-CA-C	5.35	118.91	112.38
1	5Y	170	LYS	N-CA-C	5.35	117.11	111.28
1	60	79	GLU	N-CA-C	5.35	117.86	111.71
1	6b	84	HIS	O-C-N	-5.35	116.58	121.34
1	6h	84	HIS	CA-C-N	5.35	125.36	119.90
1	6h	84	HIS	C-N-CA	5.35	125.36	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6k	59	VAL	CA-C-O	-5.35	114.92	121.13
1	6m	82	ARG	CA-C-O	5.35	126.22	120.55
1	6v	34	PRO	O-C-N	5.35	128.65	122.17
1	6D	213	GLU	O-C-N	-5.35	116.45	122.12
1	6J	120	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	6K	218	CYS	N-CA-C	5.35	117.95	107.57
1	6O	97	ARG	CA-C-N	5.35	127.93	120.65
1	6O	97	ARG	C-N-CA	5.35	127.93	120.65
1	6W	109	SER	N-CA-C	5.35	118.83	110.32
1	74	188	THR	CA-CB-CG2	5.35	119.60	110.50
1	74	194	ALA	CA-C-N	5.35	128.27	120.51
1	74	194	ALA	C-N-CA	5.35	128.27	120.51
1	75	84	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	78	50	GLN	CB-CG-CD	5.35	121.70	112.60
1	7e	12	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	7f	47	ALA	N-CA-C	5.35	117.99	110.23
1	7n	71	GLU	N-CA-C	5.35	117.11	111.28
1	7s	122	PRO	CA-C-N	5.35	125.81	120.14
1	7s	122	PRO	C-N-CA	5.35	125.81	120.14
1	7u	45	GLU	CA-C-O	5.35	126.79	120.58
1	7G	172	LEU	O-C-N	-5.35	115.26	122.43
1	7K	139	ASN	CA-C-O	5.35	126.15	120.10
1	7M	71	GLU	O-C-N	-5.35	116.56	122.07
1	7R	70	LYS	N-CA-C	5.35	118.03	111.82
1	7U	181	VAL	N-CA-C	5.35	116.08	110.62
1	84	85	PRO	CA-C-N	5.35	127.67	120.50
1	84	85	PRO	C-N-CA	5.35	127.67	120.50
1	84	195	ASN	CA-CB-CG	5.35	117.95	112.60
1	87	134	ILE	O-C-N	-5.35	116.67	121.91
1	88	154	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	8a	149	SER	N-CA-CB	5.35	117.91	109.83
1	8k	131	LYS	O-C-N	-5.35	116.44	122.12
1	8m	211	LEU	CA-C-O	5.35	126.22	120.55
1	8D	132	ARG	N-CA-C	5.35	118.60	111.75
1	8L	191	VAL	CA-C-N	5.35	128.44	120.31
1	8L	191	VAL	C-N-CA	5.35	128.44	120.31
1	8P	79	GLU	O-C-N	-5.35	116.44	122.12
1	8T	168	PHE	CA-CB-CG	5.35	119.15	113.80
1	90	7	GLN	N-CA-C	-5.35	106.43	113.17
1	9q	15	ILE	N-CA-C	5.35	115.29	108.12
1	9r	94	GLY	CA-C-N	5.35	128.47	120.87
1	9r	94	GLY	C-N-CA	5.35	128.47	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9D	132	ARG	NE-CZ-NH2	-5.35	114.38	119.20
1	9H	19	THR	CA-CB-OG1	5.35	117.63	109.60
1	ac	18	ARG	CA-C-O	5.35	126.22	120.55
1	ai	89	GLY	CA-C-N	5.35	125.35	119.89
1	ai	89	GLY	C-N-CA	5.35	125.35	119.89
1	ap	47	ALA	CA-C-N	5.35	130.48	121.92
1	ap	47	ALA	C-N-CA	5.35	130.48	121.92
1	aq	216	THR	N-CA-C	-5.35	107.12	113.97
1	at	94	GLY	CA-C-O	5.35	125.22	119.06
1	at	121	ASN	O-C-N	-5.35	115.02	121.12
1	au	212	GLU	CA-C-N	5.35	127.40	120.44
1	au	212	GLU	C-N-CA	5.35	127.40	120.44
1	aC	12	HIS	CB-CG-CD2	-5.35	124.24	131.20
1	aC	33	SER	CA-C-N	5.35	126.53	119.84
1	aC	33	SER	C-N-CA	5.35	126.53	119.84
1	13	50	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	aK	112	GLN	CA-C-O	5.35	126.22	120.55
1	aL	182	LYS	CA-C-O	-5.35	114.88	120.55
1	aW	190	LEU	O-C-N	5.35	127.81	122.08
1	15	21	ASN	CA-C-O	5.35	126.15	120.10
1	aY	21	ASN	N-CA-CB	5.35	117.77	110.01
1	b1	145	TYR	N-CA-CB	5.35	118.08	110.16
1	b3	132	ARG	CA-C-N	5.35	127.45	120.28
1	b3	132	ARG	C-N-CA	5.35	127.45	120.28
1	b4	229	ARG	CA-C-O	-5.35	114.77	120.92
1	bi	68	MET	N-CA-C	5.35	117.11	111.28
1	bo	39	MET	CA-C-N	5.35	127.45	120.28
1	bo	39	MET	C-N-CA	5.35	127.45	120.28
1	bD	43	LEU	CA-C-O	5.35	125.96	119.38
1	c1	229	ARG	NE-CZ-NH2	-5.35	114.38	119.20
1	c3	113	GLU	CA-C-N	5.35	127.45	120.28
1	c3	113	GLU	C-N-CA	5.35	127.45	120.28
1	1c	108	THR	CA-CB-OG1	5.35	117.63	109.60
1	c7	18	ARG	CD-NE-CZ	5.35	131.89	124.40
1	cn	158	LYS	CA-C-O	5.35	125.91	119.59
1	cD	84	HIS	CA-C-O	-5.35	113.75	120.23
1	1h	169	TYR	CA-CB-CG	-5.35	104.27	113.90
1	d3	183	ASN	CB-CA-C	5.35	119.68	110.79
1	d4	40	PHE	CA-C-N	5.35	127.45	120.28
1	d4	40	PHE	C-N-CA	5.35	127.45	120.28
1	d9	119	THR	CA-C-N	5.35	131.76	121.54
1	d9	119	THR	C-N-CA	5.35	131.76	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dD	213	GLU	N-CA-C	5.35	117.11	111.28
1	dH	64	ALA	O-C-N	5.35	127.79	122.12
1	1m	120	HIS	ND1-CG-CD2	-5.35	100.75	106.10
1	1o	71	GLU	CA-C-N	5.35	127.45	120.28
1	1o	71	GLU	C-N-CA	5.35	127.45	120.28
1	e2	2	ILE	CA-C-N	5.35	130.00	123.10
1	e2	2	ILE	C-N-CA	5.35	130.00	123.10
1	e2	147	PRO	N-CD-CG	5.35	111.23	103.20
1	ea	126	VAL	CA-C-N	5.35	125.92	119.98
1	ea	126	VAL	C-N-CA	5.35	125.92	119.98
1	ec	33	SER	CA-C-O	-5.35	113.89	120.05
1	ef	201	ILE	N-CA-C	5.35	116.12	110.72
1	en	115	ILE	O-C-N	-5.35	116.67	121.91
1	eq	196	PRO	CA-C-N	5.35	127.89	120.29
1	eq	196	PRO	C-N-CA	5.35	127.89	120.29
1	eF	26	VAL	CA-C-N	-5.35	113.73	121.65
1	eF	26	VAL	C-N-CA	-5.35	113.73	121.65
1	1s	229	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	eK	162	ARG	N-CA-C	5.35	120.20	111.37
1	eP	70	LYS	O-C-N	-5.35	116.45	122.12
1	eW	2	ILE	N-CA-CB	5.35	118.20	111.46
1	eX	198	CYS	CA-C-N	5.35	127.77	120.54
1	eX	198	CYS	C-N-CA	5.35	127.77	120.54
1	eZ	191	VAL	CA-C-O	5.35	126.84	121.17
1	f6	198	CYS	CA-C-N	5.35	127.45	120.28
1	f6	198	CYS	C-N-CA	5.35	127.45	120.28
1	1x	200	THR	O-C-N	-5.35	116.56	122.07
1	fS	141	ILE	CB-CA-C	-5.35	104.92	112.14
1	fZ	67	GLN	O-C-N	-5.35	115.69	122.27
1	g2	171	THR	CA-C-N	5.35	127.72	120.44
1	g2	171	THR	C-N-CA	5.35	127.72	120.44
1	g5	211	LEU	CA-C-O	5.35	126.01	119.05
1	d	40	PHE	CA-C-O	5.35	126.63	120.90
1	z	67	GLN	N-CA-C	5.35	117.11	111.28
1	N	227	LYS	CA-C-N	5.35	130.16	122.40
1	N	227	LYS	C-N-CA	5.35	130.16	122.40
1	gl	62	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	gq	152	ASP	CA-C-N	5.35	130.39	123.11
1	gq	152	ASP	C-N-CA	5.35	130.39	123.11
1	gv	39	MET	CA-C-N	5.35	127.76	120.54
1	gv	39	MET	C-N-CA	5.35	127.76	120.54
1	gO	61	GLY	CA-C-N	5.35	129.96	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gO	61	GLY	C-N-CA	5.35	129.96	122.36
1	gP	133	TRP	CA-C-O	5.35	126.44	120.82
1	gT	60	GLY	N-CA-C	5.35	122.33	115.32
1	h0	8	GLY	CA-C-N	5.35	130.55	122.68
1	h0	8	GLY	C-N-CA	5.35	130.55	122.68
1	hg	35	GLU	CA-C-O	-5.35	114.05	120.10
1	hr	33	SER	N-CA-CB	-5.35	104.55	111.35
1	hE	137	GLY	CA-C-O	-5.35	115.22	121.00
1	hT	95	GLN	N-CA-C	-5.35	101.62	109.81
1	ig	170	LYS	CA-C-N	5.35	127.40	120.44
1	ig	170	LYS	C-N-CA	5.35	127.40	120.44
1	iv	92	GLU	O-C-N	-5.35	115.68	120.71
1	iP	201	ILE	N-CA-C	5.35	117.78	111.09
1	iZ	162	ARG	N-CA-C	5.35	117.81	111.33
1	jg	162	ARG	NE-CZ-NH2	-5.35	114.38	119.20
1	jB	133	TRP	CA-C-O	5.35	126.22	120.55
1	jG	114	GLN	N-CA-C	5.35	117.53	111.11
1	jK	89	GLY	CA-C-N	5.35	125.25	119.85
1	jK	89	GLY	C-N-CA	5.35	125.25	119.85
1	jO	111	LEU	CA-C-N	5.35	127.71	120.38
1	jO	111	LEU	C-N-CA	5.35	127.71	120.38
1	k5	100	ARG	CA-C-N	5.35	126.87	120.13
1	k5	100	ARG	C-N-CA	5.35	126.87	120.13
1	km	15	ILE	CA-C-O	5.35	127.73	120.99
1	kt	213	GLU	O-C-N	-5.35	116.45	122.12
1	kX	205	LEU	CA-C-N	5.35	130.27	121.87
1	kX	205	LEU	C-N-CA	5.35	130.27	121.87
1	25	139	ASN	CA-CB-CG	5.35	117.95	112.60
1	kZ	167	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	lz	92	GLU	CA-CB-CG	-5.35	103.40	114.10
1	lR	109	SER	O-C-N	-5.35	116.41	123.21
1	2g	146	SER	O-C-N	-5.35	115.42	121.36
1	2l	135	ILE	O-C-N	-5.35	116.67	121.91
1	37	165	VAL	CA-C-N	5.35	127.45	120.28
1	37	165	VAL	C-N-CA	5.35	127.45	120.28
1	39	18	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	3M	169	TYR	CA-CB-CG	-5.35	104.27	113.90
1	3W	223	GLY	O-C-N	-5.35	116.42	121.77
1	4p	175	GLU	CA-CB-CG	5.35	124.80	114.10
1	4q	143	ARG	CA-C-N	5.35	127.45	120.28
1	4q	143	ARG	C-N-CA	5.35	127.45	120.28
1	4u	16	SER	CA-C-N	5.35	126.53	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4u	16	SER	C-N-CA	5.35	126.53	119.84
1	4x	120	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	4M	7	GLN	CG-CD-NE2	-5.35	108.37	116.40
1	51	192	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	5Y	41	SER	N-CA-C	5.35	116.80	111.07
1	5Y	113	GLU	CA-C-N	5.35	127.72	120.44
1	5Y	113	GLU	C-N-CA	5.35	127.72	120.44
1	60	59	VAL	CA-C-O	5.35	126.03	120.25
1	65	80	TRP	CA-CB-CG	5.35	123.77	113.60
1	6d	22	ALA	CA-C-N	5.35	127.45	120.28
1	6d	22	ALA	C-N-CA	5.35	127.45	120.28
1	6t	2	ILE	CA-C-O	5.35	126.82	120.72
1	7e	92	GLU	N-CA-CB	5.35	118.47	110.02
1	7g	57	ASN	N-CA-CB	5.35	119.02	110.73
1	7G	53	ASN	CA-CB-CG	-5.35	107.25	112.60
1	7S	24	VAL	CA-C-O	5.35	126.84	121.17
1	8d	230	VAL	CB-CA-C	5.35	118.77	110.96
1	8n	18	ARG	CB-CA-C	-5.35	101.91	110.79
1	8o	228	ALA	CA-C-N	5.35	130.77	122.26
1	8o	228	ALA	C-N-CA	5.35	130.77	122.26
1	8N	52	LEU	CA-C-N	5.35	127.40	120.44
1	8N	52	LEU	C-N-CA	5.35	127.40	120.44
1	8S	69	LEU	CB-CA-C	5.35	119.28	110.88
1	96	30	LYS	CA-C-O	5.35	125.66	118.38
1	96	108	THR	O-C-N	-5.35	115.77	122.35
1	9d	21	ASN	CA-CB-CG	-5.35	107.25	112.60
1	9p	48	THR	CA-C-N	5.35	126.53	119.84
1	9p	48	THR	C-N-CA	5.35	126.53	119.84
1	9J	92	GLU	CB-CA-C	5.35	117.74	108.91
1	ao	224	PRO	O-C-N	-5.35	115.42	122.64
1	aQ	87	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	bf	131	LYS	CA-C-N	5.35	127.45	120.28
1	bf	131	LYS	C-N-CA	5.35	127.45	120.28
1	bs	163	ASP	CA-C-N	5.35	127.45	120.28
1	bs	163	ASP	C-N-CA	5.35	127.45	120.28
1	bL	57	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	bO	2	ILE	CB-CA-C	-5.35	104.36	110.73
1	bR	191	VAL	CA-C-N	5.35	127.45	120.28
1	bR	191	VAL	C-N-CA	5.35	127.45	120.28
1	c3	11	VAL	CA-C-N	5.35	129.15	121.50
1	c3	11	VAL	C-N-CA	5.35	129.15	121.50
1	cS	159	GLU	N-CA-C	5.35	119.32	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1h	147	PRO	N-CA-CB	-5.35	98.36	103.39
1	1h	214	MET	N-CA-C	5.35	117.19	111.36
1	d9	62	HIS	CA-C-N	5.35	127.71	120.38
1	d9	62	HIS	C-N-CA	5.35	127.71	120.38
1	dv	92	GLU	N-CA-C	-5.35	101.21	108.11
1	dJ	124	ILE	N-CA-C	-5.35	102.69	107.56
1	dK	130	TYR	CA-C-N	5.35	127.76	120.54
1	dK	130	TYR	C-N-CA	5.35	127.76	120.54
1	ee	91	ILE	CA-C-N	5.35	128.79	120.60
1	ee	91	ILE	C-N-CA	5.35	128.79	120.60
1	ee	96	MET	O-C-N	-5.35	116.91	122.96
1	eg	189	LEU	CA-C-O	5.35	125.86	119.60
1	ei	189	LEU	CA-C-O	5.35	126.91	120.92
1	1q	7	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	1q	90	PRO	CA-C-N	5.35	130.43	122.99
1	1q	90	PRO	C-N-CA	5.35	130.43	122.99
1	eJ	67	GLN	N-CA-C	5.35	116.80	111.07
1	eX	73	ILE	CA-C-N	5.35	127.89	120.29
1	eX	73	ILE	C-N-CA	5.35	127.89	120.29
1	f2	93	PRO	N-CA-C	5.35	121.57	113.81
1	fh	112	GLN	O-C-N	-5.35	116.56	122.07
1	fA	63	GLN	CG-CD-NE2	5.35	124.43	116.40
1	fV	53	ASN	CA-CB-CG	-5.35	107.25	112.60
1	fY	14	ALA	O-C-N	-5.35	116.69	122.79
1	a	207	PRO	CA-C-O	5.35	127.42	121.43
1	g	40	PHE	N-CA-C	-5.35	105.36	111.14
1	x	143	ARG	NH1-CZ-NH2	-5.35	112.34	119.30
1	L	139	ASN	O-C-N	5.35	127.58	122.07
1	M	215	MET	CA-C-O	-5.35	114.88	120.55
1	O	75	GLU	N-CA-C	5.35	116.92	111.14
1	O	218	CYS	N-CA-CB	5.35	118.17	110.20
1	gh	225	GLY	N-CA-C	5.35	119.11	112.64
1	1C	15	ILE	CA-CB-CG2	5.35	119.59	110.50
1	gi	70	LYS	N-CA-C	5.35	117.80	111.33
1	gi	87	HIS	CA-C-O	5.35	125.49	119.18
1	gm	141	ILE	N-CA-CB	-5.35	104.29	110.55
1	go	230	VAL	CB-CA-C	-5.35	103.82	111.31
1	gJ	39	MET	CB-CA-C	5.35	119.67	110.79
1	gJ	160	PRO	CA-C-N	5.35	127.45	120.28
1	gJ	160	PRO	C-N-CA	5.35	127.45	120.28
1	h4	64	ALA	CA-C-N	5.35	127.89	120.29
1	h4	64	ALA	C-N-CA	5.35	127.89	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	97	ARG	CB-CG-CD	5.35	123.60	111.30
1	hh	123	PRO	N-CA-C	5.35	119.62	110.95
1	hz	13	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	hz	67	GLN	CB-CG-CD	5.35	121.69	112.60
1	hC	138	LEU	O-C-N	-5.35	116.05	122.15
1	hE	22	ALA	CA-C-N	5.35	127.89	120.29
1	hE	22	ALA	C-N-CA	5.35	127.89	120.29
1	hO	162	ARG	CA-C-N	5.35	127.39	120.44
1	hO	162	ARG	C-N-CA	5.35	127.39	120.44
1	hP	65	ALA	CA-C-N	5.35	127.45	120.28
1	hP	65	ALA	C-N-CA	5.35	127.45	120.28
1	hT	174	ALA	CA-C-N	5.35	127.91	120.63
1	hT	174	ALA	C-N-CA	5.35	127.91	120.63
1	1M	219	GLN	CB-CG-CD	5.35	121.69	112.60
1	i7	176	GLN	CB-CG-CD	5.35	121.69	112.60
1	i7	181	VAL	N-CA-CB	5.35	116.81	110.55
1	id	114	GLN	CA-C-O	-5.35	114.88	120.55
1	ie	43	LEU	O-C-N	-5.35	115.26	122.43
1	ig	117	TRP	N-CA-CB	5.35	118.17	110.20
1	io	36	VAL	N-CA-CB	-5.35	103.27	110.54
1	ip	50	GLN	N-CA-C	5.35	117.11	111.28
1	iD	131	LYS	N-CA-CB	-5.35	101.98	110.22
1	iF	220	GLY	CA-C-N	5.35	127.79	120.46
1	iF	220	GLY	C-N-CA	5.35	127.79	120.46
1	iH	21	ASN	CA-C-O	-5.35	114.75	120.42
1	iH	166	ASP	CA-C-O	-5.35	115.20	120.82
1	iK	176	GLN	N-CA-C	-5.35	106.62	112.72
1	iO	156	GLY	CA-C-N	5.35	126.53	119.84
1	iO	156	GLY	C-N-CA	5.35	126.53	119.84
1	iV	73	ILE	O-C-N	-5.35	116.67	121.91
1	iZ	52	LEU	CA-C-O	-5.35	115.20	120.82
1	jb	157	PRO	CA-C-N	5.35	130.64	122.29
1	jb	157	PRO	C-N-CA	5.35	130.64	122.29
1	jc	21	ASN	CA-C-O	5.35	126.22	120.55
1	je	226	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	ji	187	GLU	CA-C-O	5.35	125.61	119.35
1	jl	24	VAL	N-CA-C	5.35	119.94	112.50
1	jn	99	PRO	N-CA-CB	5.35	108.07	103.31
1	jq	68	MET	CA-C-N	5.35	127.39	120.44
1	jq	68	MET	C-N-CA	5.35	127.39	120.44
1	jx	141	ILE	CA-C-N	5.35	127.30	120.56
1	jx	141	ILE	C-N-CA	5.35	127.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	50	GLN	N-CA-CB	5.35	118.08	110.06
1	jD	119	THR	N-CA-CB	5.35	118.69	110.61
1	jD	148	THR	CA-C-N	5.35	129.34	120.94
1	jD	148	THR	C-N-CA	5.35	129.34	120.94
1	jD	175	GLU	CA-C-O	-5.35	115.31	121.19
1	jH	12	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	jL	165	VAL	CA-CB-CG1	5.35	119.49	110.40
1	jM	199	LYS	CA-C-O	5.35	126.62	120.90
1	jU	166	ASP	CA-C-O	5.35	126.62	121.00
1	jZ	22	ALA	CA-C-N	5.35	127.39	120.44
1	jZ	22	ALA	C-N-CA	5.35	127.39	120.44
1	1Z	66	MET	O-C-N	-5.35	116.45	122.12
1	k0	106	GLY	CA-C-O	5.35	125.66	119.13
1	k1	219	GLN	CG-CD-NE2	5.35	124.42	116.40
1	20	76	GLU	N-CA-C	5.35	118.03	111.82
1	21	219	GLN	N-CA-C	5.35	117.84	110.35
1	kp	97	ARG	N-CA-C	5.35	118.04	110.50
1	ku	9	GLN	CB-CA-C	5.35	118.80	109.65
1	kI	176	GLN	CG-CD-OE1	5.35	131.50	120.80
1	kM	30	LYS	N-CA-CB	-5.35	102.53	110.61
1	kR	69	LEU	CA-C-N	5.35	129.70	121.19
1	kR	69	LEU	C-N-CA	5.35	129.70	121.19
1	kR	88	ALA	N-CA-C	5.35	117.99	110.23
1	kS	54	THR	N-CA-C	5.35	117.11	111.28
1	kT	73	ILE	N-CA-CB	5.35	116.81	110.55
1	kW	84	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	kX	2	ILE	N-CA-C	-5.35	99.94	107.75
1	l7	145	TYR	CA-C-O	5.35	126.15	119.78
1	27	125	PRO	CB-CA-C	5.35	121.00	112.06
1	lj	102	SER	N-CA-C	5.35	117.11	111.28
1	28	134	ILE	CA-C-O	5.35	126.25	120.47
1	lw	156	GLY	O-C-N	-5.35	116.42	121.77
1	lB	152	ASP	N-CA-C	-5.35	106.53	113.16
1	lM	50	GLN	N-CA-C	5.35	116.80	111.07
1	lM	129	ILE	CA-CB-CG1	-5.35	101.31	110.40
1	2f	98	GLU	N-CA-C	5.35	117.18	109.48
1	2m	145	TYR	CB-CA-C	-5.35	101.44	110.64
1	2o	18	ARG	CA-C-O	-5.35	114.88	120.55
1	2w	37	ILE	O-C-N	-5.35	115.00	121.10
1	2E	74	ASN	CA-CB-CG	-5.35	107.25	112.60
1	2J	79	GLU	N-CA-C	5.35	117.80	111.33
1	2J	100	ARG	NE-CZ-NH1	5.35	126.85	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Q	128	GLU	CA-C-N	5.35	127.50	120.60
1	2Q	128	GLU	C-N-CA	5.35	127.50	120.60
1	2U	87	HIS	CA-CB-CG	5.35	119.15	113.80
1	2V	173	ARG	CG-CD-NE	-5.35	100.23	112.00
1	2W	3	VAL	O-C-N	-5.35	117.48	123.26
1	3p	176	GLN	CA-C-N	5.35	129.66	120.72
1	3p	176	GLN	C-N-CA	5.35	129.66	120.72
1	3q	40	PHE	CA-CB-CG	-5.35	108.45	113.80
1	3t	163	ASP	O-C-N	-5.35	115.26	122.43
1	3K	131	LYS	CA-C-O	5.35	126.22	120.55
1	3R	58	THR	CA-CB-CG2	5.35	119.59	110.50
1	43	70	LYS	N-CA-CB	5.35	117.98	110.12
1	49	69	LEU	CA-C-N	5.35	127.89	120.29
1	49	69	LEU	C-N-CA	5.35	127.89	120.29
1	4b	145	TYR	O-C-N	-5.35	115.08	122.46
1	4s	64	ALA	CB-CA-C	5.35	119.28	110.88
1	4H	189	LEU	CA-C-N	5.35	127.76	120.54
1	4H	189	LEU	C-N-CA	5.35	127.76	120.54
1	4P	99	PRO	N-CD-CG	5.35	111.22	103.20
1	54	47	ALA	O-C-N	-5.35	116.92	122.96
1	55	74	ASN	CA-C-N	5.35	127.45	120.28
1	55	74	ASN	C-N-CA	5.35	127.45	120.28
1	5l	66	MET	O-C-N	-5.35	115.70	122.17
1	5w	72	THR	CB-CA-C	-5.35	101.76	110.85
1	5G	24	VAL	N-CA-CB	5.35	116.81	110.55
1	5Q	35	GLU	CA-C-O	5.35	126.14	120.10
1	5S	138	LEU	CA-C-N	5.35	127.45	120.28
1	5S	138	LEU	C-N-CA	5.35	127.45	120.28
1	61	3	VAL	CA-CB-CG1	5.35	119.50	110.40
1	66	143	ARG	CA-C-N	5.35	127.39	120.44
1	66	143	ARG	C-N-CA	5.35	127.39	120.44
1	67	30	LYS	CA-C-N	-5.35	115.23	123.04
1	67	30	LYS	C-N-CA	-5.35	115.23	123.04
1	69	162	ARG	N-CA-C	5.35	117.11	111.28
1	6q	18	ARG	CA-C-O	5.35	126.22	120.55
1	6s	119	THR	CA-CB-CG2	-5.35	101.41	110.50
1	6s	171	THR	O-C-N	-5.35	116.45	122.12
1	6w	25	LYS	CA-C-N	5.35	127.30	120.56
1	6w	25	LYS	C-N-CA	5.35	127.30	120.56
1	6A	4	GLN	CG-CD-NE2	5.35	124.42	116.40
1	7d	194	ALA	CA-C-O	-5.35	115.98	121.87
1	7p	22	ALA	O-C-N	-5.35	116.45	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7q	107	THR	CA-C-N	5.35	130.89	122.49
1	7q	107	THR	C-N-CA	5.35	130.89	122.49
1	7s	187	GLU	N-CA-C	5.35	117.19	111.36
1	7u	170	LYS	CA-C-N	5.35	127.45	120.28
1	7u	170	LYS	C-N-CA	5.35	127.45	120.28
1	7H	107	THR	O-C-N	-5.35	116.53	122.09
1	7I	117	TRP	O-C-N	-5.35	116.56	122.07
1	7O	110	THR	N-CA-CB	5.35	117.91	110.26
1	80	222	GLY	N-CA-C	5.35	122.01	112.22
1	85	12	HIS	N-CA-CB	5.35	117.82	109.85
1	85	77	ALA	O-C-N	-5.35	115.69	122.27
1	86	128	GLU	CA-C-N	5.35	127.79	120.46
1	86	128	GLU	C-N-CA	5.35	127.79	120.46
1	87	39	MET	N-CA-C	5.35	117.11	111.28
1	8b	144	MET	N-CA-C	5.35	116.79	111.07
1	8c	5	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	8f	202	LEU	CA-C-N	5.35	127.45	120.28
1	8f	202	LEU	C-N-CA	5.35	127.45	120.28
1	8k	60	GLY	CA-C-N	5.35	128.61	121.01
1	8k	60	GLY	C-N-CA	5.35	128.61	121.01
1	8D	223	GLY	O-C-N	-5.35	116.42	121.77
1	8M	50	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	8V	216	THR	O-C-N	-5.35	115.08	122.46
1	9g	112	GLN	CA-C-N	5.35	127.39	120.44
1	9g	112	GLN	C-N-CA	5.35	127.39	120.44
1	9v	191	VAL	O-C-N	-5.35	116.59	122.05
1	9P	179	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	ab	104	ILE	CA-C-O	5.35	126.51	120.95
1	ak	34	PRO	N-CA-CB	5.35	109.19	103.52
1	an	157	PRO	CA-C-O	5.35	127.20	119.34
1	aq	11	VAL	CA-C-O	5.35	126.29	120.57
1	at	161	PHE	CA-C-N	5.35	127.71	120.38
1	at	161	PHE	C-N-CA	5.35	127.71	120.38
1	aA	73	ILE	CB-CA-C	5.35	118.73	111.88
1	aJ	35	GLU	N-CA-CB	5.35	118.62	110.44
1	aL	137	GLY	N-CA-C	-5.35	105.83	113.86
1	aW	5	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	b0	219	GLN	CA-C-N	5.35	129.22	122.00
1	b0	219	GLN	C-N-CA	5.35	129.22	122.00
1	16	162	ARG	N-CA-C	5.35	117.80	111.33
1	b8	91	ILE	CA-CB-CG2	-5.35	101.40	110.50
1	bm	2	ILE	CA-C-O	5.35	126.01	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	br	130	TYR	CB-CG-CD1	5.35	128.82	120.80
1	br	166	ASP	CA-CB-CG	-5.35	107.25	112.60
1	18	98	GLU	CA-C-N	5.35	126.53	119.84
1	18	98	GLU	C-N-CA	5.35	126.53	119.84
1	bv	145	TYR	CA-C-O	5.35	124.71	118.77
1	bx	121	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	bA	189	LEU	N-CA-C	5.35	117.11	111.28
1	19	130	TYR	CB-CG-CD2	5.35	128.82	120.80
1	bJ	74	ASN	N-CA-C	5.35	117.19	111.36
1	bX	167	ARG	NE-CZ-NH1	-5.35	116.15	121.50
1	ca	153	ILE	N-CA-CB	5.35	116.94	110.95
1	cd	14	ALA	CA-C-N	5.35	128.26	120.98
1	cd	14	ALA	C-N-CA	5.35	128.26	120.98
1	cg	63	GLN	CB-CG-CD	5.35	121.69	112.60
1	ck	130	TYR	CA-C-N	5.35	127.45	120.28
1	ck	130	TYR	C-N-CA	5.35	127.45	120.28
1	cw	113	GLU	CA-C-O	5.35	126.22	120.55
1	cy	179	GLN	N-CA-CB	-5.35	102.26	110.12
1	cG	98	GLU	CA-C-N	5.35	128.32	120.46
1	cG	98	GLU	C-N-CA	5.35	128.32	120.46
1	cH	66	MET	O-C-N	-5.35	116.05	122.15
1	cJ	190	LEU	O-C-N	-5.35	116.45	122.12
1	cL	20	LEU	CA-C-N	5.35	127.45	120.28
1	cL	20	LEU	C-N-CA	5.35	127.45	120.28
1	d0	192	GLN	N-CA-C	5.35	116.92	111.14
1	d9	83	LEU	CB-CA-C	-5.35	102.48	110.88
1	db	164	TYR	CB-CG-CD1	5.35	128.82	120.80
1	dd	70	LYS	N-CA-C	5.35	116.79	111.07
1	dw	175	GLU	O-C-N	-5.35	116.29	122.87
1	dy	104	ILE	CA-C-N	5.35	132.64	121.94
1	dy	104	ILE	C-N-CA	5.35	132.64	121.94
1	dE	47	ALA	CA-C-O	5.35	127.02	120.92
1	dZ	203	LYS	N-CA-C	5.35	117.19	111.36
1	ed	198	CYS	N-CA-C	5.35	118.03	111.82
1	ej	12	HIS	CA-C-O	5.35	126.48	120.70
1	es	48	THR	N-CA-CB	5.35	115.53	109.49
1	ew	52	LEU	CA-C-O	-5.35	115.20	120.82
1	eD	155	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	eF	26	VAL	N-CA-C	5.35	115.56	110.53
1	eJ	9	GLN	CB-CG-CD	5.35	121.69	112.60
1	eO	121	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	eX	226	HIS	ND1-CE1-NE2	5.35	113.75	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	219	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	f7	4	GLN	N-CA-CB	5.35	119.53	110.49
1	fb	82	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	1x	119	THR	CA-CB-CG2	5.35	119.59	110.50
1	fu	87	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	fu	141	ILE	N-CA-CB	5.35	117.82	110.54
1	fC	185	MET	CA-C-O	-5.35	114.88	120.55
1	fL	161	PHE	CA-C-N	5.35	127.39	120.44
1	fL	161	PHE	C-N-CA	5.35	127.39	120.44
1	fU	210	THR	CA-CB-OG1	5.35	117.62	109.60
1	fX	140	LYS	CG-CD-CE	5.35	123.60	111.30
1	g0	213	GLU	CA-C-N	5.35	127.39	120.44
1	g0	213	GLU	C-N-CA	5.35	127.39	120.44
1	1B	229	ARG	CA-C-N	5.35	127.67	120.50
1	1B	229	ARG	C-N-CA	5.35	127.67	120.50
1	f	92	GLU	N-CA-C	-5.35	100.12	109.48
1	n	101	GLY	N-CA-C	5.35	119.15	112.73
1	u	65	ALA	N-CA-C	-5.35	105.35	111.07
1	v	20	LEU	N-CA-C	5.35	116.80	111.07
1	v	34	PRO	CA-C-N	5.35	127.71	120.38
1	v	34	PRO	C-N-CA	5.35	127.71	120.38
1	x	69	LEU	CA-C-N	5.35	127.45	120.28
1	x	69	LEU	C-N-CA	5.35	127.45	120.28
1	P	120	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	P	225	GLY	N-CA-C	5.35	122.18	114.10
1	5	35	GLU	O-C-N	-5.35	115.69	122.27
1	g8	184	TRP	CA-C-N	5.35	127.39	120.44
1	g8	184	TRP	C-N-CA	5.35	127.39	120.44
1	gf	31	ALA	N-CA-C	5.35	117.86	111.71
1	gn	111	LEU	CB-CA-C	5.35	119.28	110.88
1	gJ	185	MET	N-CA-CB	-5.35	101.99	110.22
1	gM	95	GLN	N-CA-C	5.35	118.62	111.24
1	gQ	175	GLU	N-CA-C	5.35	117.98	110.23
1	gZ	88	ALA	N-CA-CB	5.35	117.82	109.85
1	1H	161	PHE	O-C-N	5.35	128.25	122.15
1	hb	48	THR	CA-CB-OG1	5.35	117.62	109.60
1	hg	191	VAL	O-C-N	-5.35	116.32	121.83
1	hk	207	PRO	N-CD-CG	5.35	111.22	103.20
1	1J	32	PHE	CA-C-O	5.35	125.68	119.32
1	hq	145	TYR	CA-CB-CG	-5.35	104.27	113.90
1	hA	128	GLU	CA-C-N	5.35	127.30	120.56
1	hA	128	GLU	C-N-CA	5.35	127.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	35	GLU	O-C-N	-5.35	115.96	122.22
1	hR	2	ILE	CB-CA-C	5.35	117.47	111.59
1	hR	47	ALA	O-C-N	-5.35	116.55	122.86
1	hR	134	ILE	O-C-N	-5.35	116.68	121.87
1	hZ	200	THR	N-CA-CB	5.35	118.57	110.28
1	1N	85	PRO	CA-C-O	5.35	130.45	123.07
1	in	95	GLN	CB-CA-C	-5.35	100.37	109.51
1	in	219	GLN	CG-CD-OE1	5.35	131.50	120.80
1	iq	74	ASN	CA-C-N	5.35	127.71	120.44
1	iq	74	ASN	C-N-CA	5.35	127.71	120.44
1	it	131	LYS	N-CA-C	-5.35	105.45	111.28
1	1Q	199	LYS	CB-CA-C	-5.35	101.92	110.79
1	iG	83	LEU	O-C-N	-5.35	116.45	122.12
1	iJ	87	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	1S	61	GLY	CA-C-N	5.35	129.77	122.34
1	1S	61	GLY	C-N-CA	5.35	129.77	122.34
1	iU	113	GLU	CB-CA-C	5.35	119.94	110.85
1	iY	128	GLU	CB-CG-CD	-5.35	103.51	112.60
1	iY	145	TYR	CG-CD1-CE1	5.35	129.22	121.20
1	j3	63	GLN	CB-CA-C	5.35	119.35	110.90
1	j4	132	ARG	O-C-N	-5.35	116.53	122.09
1	j9	218	CYS	N-CA-CB	5.35	120.10	111.65
1	jb	42	ALA	CA-C-N	5.35	127.45	120.28
1	jb	42	ALA	C-N-CA	5.35	127.45	120.28
1	je	52	LEU	CA-C-O	5.35	126.43	120.82
1	jk	82	ARG	N-CA-CB	5.35	117.76	110.01
1	jp	222	GLY	CA-C-N	5.35	130.26	121.87
1	jp	222	GLY	C-N-CA	5.35	130.26	121.87
1	jr	80	TRP	O-C-N	-5.35	116.45	122.12
1	jr	217	ALA	O-C-N	-5.35	116.69	122.79
1	jI	57	ASN	CA-CB-CG	-5.35	107.25	112.60
1	jO	184	TRP	CA-C-N	5.35	127.76	120.54
1	jO	184	TRP	C-N-CA	5.35	127.76	120.54
1	1Y	153	ILE	O-C-N	-5.35	116.63	122.83
1	jR	183	ASN	O-C-N	5.35	127.58	122.07
1	jU	92	GLU	O-C-N	-5.35	116.54	121.30
1	k7	111	LEU	O-C-N	-5.35	115.96	122.22
1	k9	201	ILE	CA-C-O	5.35	126.52	120.85
1	21	186	THR	N-CA-CB	5.35	117.98	110.12
1	kn	126	VAL	O-C-N	-5.35	116.68	121.87
1	kr	117	TRP	CA-C-N	5.35	127.44	120.28
1	kr	117	TRP	C-N-CA	5.35	127.44	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kv	76	GLU	CA-C-O	-5.35	114.88	120.55
1	kx	12	HIS	CG-CD2-NE2	5.35	112.55	107.20
1	kA	58	THR	CA-CB-OG1	5.35	117.62	109.60
1	kB	41	SER	CA-C-O	-5.35	115.18	120.90
1	kC	128	GLU	CA-C-N	5.35	127.30	120.56
1	kC	128	GLU	C-N-CA	5.35	127.30	120.56
1	kD	25	LYS	CA-C-O	5.35	126.43	120.82
1	kH	170	LYS	CA-C-N	5.35	127.44	120.28
1	kH	170	LYS	C-N-CA	5.35	127.44	120.28
1	kV	62	HIS	ND1-CG-CD2	5.35	111.45	106.10
1	ll	48	THR	CA-C-O	-5.35	115.13	120.96
1	ll	107	THR	CA-C-O	5.35	127.00	120.31
1	lr	115	ILE	CA-C-O	-5.35	115.49	121.05
1	lt	186	THR	N-CA-CB	5.35	118.08	110.06
1	ly	214	MET	O-C-N	-5.35	116.05	122.15
1	lH	213	GLU	N-CA-C	5.35	117.11	111.28
1	lK	4	GLN	O-C-N	-5.35	117.49	123.48
1	lN	190	LEU	CA-C-N	-5.35	116.27	122.63
1	lN	190	LEU	C-N-CA	-5.35	116.27	122.63
1	2f	213	GLU	N-CA-C	5.35	116.79	111.07
1	2k	79	GLU	CA-C-O	5.35	126.62	120.90
1	2P	82	ARG	CA-C-N	5.35	128.44	120.31
1	2P	82	ARG	C-N-CA	5.35	128.44	120.31
1	2Q	217	ALA	N-CA-C	5.35	118.19	110.28
1	32	96	MET	O-C-N	-5.35	116.55	122.86
1	32	134	ILE	CA-C-N	5.35	127.79	120.46
1	32	134	ILE	C-N-CA	5.35	127.79	120.46
1	37	73	ILE	O-C-N	5.35	127.06	121.87
1	3b	10	MET	N-CA-CB	5.35	117.52	109.34
1	3c	116	GLY	CA-C-N	5.35	127.44	120.28
1	3c	116	GLY	C-N-CA	5.35	127.44	120.28
1	3d	86	VAL	O-C-N	-5.35	116.84	122.67
1	3d	180	GLU	N-CA-CB	-5.35	102.26	110.12
1	3r	46	GLY	CA-C-O	5.35	126.48	119.69
1	3K	87	HIS	CA-C-O	5.35	126.81	120.66
1	3L	57	ASN	CB-CA-C	-5.35	99.31	109.95
1	3N	140	LYS	N-CA-C	5.35	117.53	111.11
1	3V	63	GLN	CA-C-O	-5.35	113.48	119.79
1	48	193	ASN	CA-C-O	5.35	125.75	119.28
1	4i	74	ASN	N-CA-C	5.35	117.11	111.28
1	4w	200	THR	CA-C-N	5.35	127.30	120.56
1	4w	200	THR	C-N-CA	5.35	127.30	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4A	128	GLU	CA-C-O	5.35	126.09	120.42
1	4Z	55	MET	CG-SD-CE	-5.35	89.14	100.90
1	58	161	PHE	CA-C-N	5.35	127.39	120.44
1	58	161	PHE	C-N-CA	5.35	127.39	120.44
1	5d	222	GLY	O-C-N	-5.35	115.75	122.70
1	5g	19	THR	N-CA-C	5.35	116.79	111.07
1	5r	144	MET	O-C-N	-5.35	115.69	122.27
1	5r	226	HIS	CB-CG-ND1	5.35	130.72	122.70
1	5H	159	GLU	N-CA-CB	5.35	120.19	109.28
1	5S	5	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	6c	112	GLN	CA-C-O	-5.35	114.06	120.10
1	6h	24	VAL	CA-C-N	5.35	127.44	120.28
1	6h	24	VAL	C-N-CA	5.35	127.44	120.28
1	6m	121	ASN	CB-CG-ND2	-5.35	108.38	116.40
1	6r	155	GLN	CA-C-N	5.35	130.27	121.87
1	6r	155	GLN	C-N-CA	5.35	130.27	121.87
1	6u	64	ALA	CA-C-N	5.35	127.45	120.28
1	6u	64	ALA	C-N-CA	5.35	127.45	120.28
1	6v	100	ARG	CA-C-O	5.35	128.15	121.89
1	6F	44	SER	CA-C-N	5.35	127.45	120.28
1	6F	44	SER	C-N-CA	5.35	127.45	120.28
1	6G	48	THR	O-C-N	-5.35	115.54	121.53
1	6W	171	THR	OG1-CB-CG2	-5.35	98.61	109.30
1	76	161	PHE	N-CA-C	5.35	122.19	110.80
1	78	123	PRO	N-CA-C	5.35	119.60	111.15
1	79	226	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	7a	23	TRP	N-CA-C	5.35	117.53	111.11
1	7i	111	LEU	CA-C-N	5.35	127.71	120.38
1	7i	111	LEU	C-N-CA	5.35	127.71	120.38
1	7k	117	TRP	N-CA-CB	-5.35	102.26	110.12
1	7u	163	ASP	CB-CA-C	5.35	118.96	109.65
1	7x	213	GLU	CB-CA-C	5.35	119.67	110.79
1	7B	71	GLU	N-CA-C	5.35	117.11	111.28
1	7H	41	SER	CA-C-N	5.35	127.71	120.44
1	7H	41	SER	C-N-CA	5.35	127.71	120.44
1	7I	154	ARG	O-C-N	-5.35	117.16	123.25
1	7U	167	ARG	NH1-CZ-NH2	-5.35	112.35	119.30
1	88	51	ASP	CA-C-O	-5.35	114.88	120.55
1	8f	139	ASN	N-CA-C	-5.35	105.53	111.36
1	8g	12	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	8k	180	GLU	CA-C-N	5.35	127.41	120.56
1	8k	180	GLU	C-N-CA	5.35	127.41	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8r	47	ALA	O-C-N	-5.35	116.23	122.81
1	8s	162	ARG	NE-CZ-NH2	-5.35	114.39	119.20
1	8t	159	GLU	CA-C-N	5.35	125.34	119.89
1	8t	159	GLU	C-N-CA	5.35	125.34	119.89
1	8u	34	PRO	CA-C-N	5.35	131.75	121.54
1	8u	34	PRO	C-N-CA	5.35	131.75	121.54
1	8u	209	ALA	N-CA-C	5.35	117.62	110.35
1	8D	62	HIS	CA-C-N	5.35	127.44	120.28
1	8D	62	HIS	C-N-CA	5.35	127.44	120.28
1	8D	175	GLU	CB-CG-CD	5.35	121.69	112.60
1	8M	28	GLU	N-CA-C	5.35	117.11	111.28
1	90	185	MET	N-CA-C	5.35	116.79	111.07
1	92	48	THR	CA-CB-OG1	5.35	117.62	109.60
1	94	178	SER	N-CA-C	5.35	117.98	110.23
1	98	39	MET	O-C-N	-5.35	116.05	122.15
1	9h	132	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	9j	161	PHE	CA-C-N	5.35	131.75	121.54
1	9j	161	PHE	C-N-CA	5.35	131.75	121.54
1	9r	140	LYS	N-CA-CB	5.35	117.76	110.01
1	9x	38	PRO	CA-C-N	5.35	127.39	120.44
1	9x	38	PRO	C-N-CA	5.35	127.39	120.44
1	9y	107	THR	O-C-N	-5.35	116.56	122.07
1	9C	145	TYR	N-CA-C	5.35	117.80	111.33
1	9D	66	MET	CG-SD-CE	-5.35	89.14	100.90
1	9G	55	MET	N-CA-C	5.35	116.79	111.07
1	9U	91	ILE	N-CA-C	5.35	117.16	109.51
1	9X	211	LEU	CA-C-O	5.35	125.96	119.49
1	a0	107	THR	N-CA-C	5.35	116.80	110.97
1	a9	33	SER	O-C-N	-5.35	118.08	121.88
1	ak	164	TYR	CA-C-O	-5.35	115.20	120.82
1	al	48	THR	CA-CB-OG1	5.35	117.62	109.60
1	al	116	GLY	N-CA-C	5.35	119.11	112.64
1	az	154	ARG	CD-NE-CZ	-5.35	116.91	124.40
1	aA	32	PHE	CA-CB-CG	-5.35	108.45	113.80
1	13	150	ILE	N-CA-C	5.35	118.55	111.17
1	aX	154	ARG	CG-CD-NE	-5.35	100.23	112.00
1	b1	2	ILE	CB-CA-C	-5.35	102.86	110.83
1	be	63	GLN	CB-CG-CD	-5.35	103.51	112.60
1	17	34	PRO	N-CA-C	5.35	120.88	113.98
1	17	192	GLN	CA-C-O	5.35	125.96	119.38
1	bk	210	THR	CA-CB-OG1	5.35	117.62	109.60
1	18	165	VAL	CB-CA-C	-5.35	104.84	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	195	ASN	OD1-CG-ND2	5.35	127.95	122.60
1	bA	31	ALA	CB-CA-C	5.35	121.06	110.42
1	bF	76	GLU	N-CA-CB	5.35	118.08	110.16
1	bI	84	HIS	CB-CG-CD2	-5.35	124.25	131.20
1	bQ	136	LEU	O-C-N	-5.35	116.56	122.07
1	bQ	155	GLN	O-C-N	-5.35	116.11	122.63
1	bR	62	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	c3	172	LEU	CA-C-O	5.35	126.22	120.55
1	ch	182	LYS	CB-CA-C	5.35	119.36	110.81
1	cj	140	LYS	N-CA-CB	-5.35	102.26	110.12
1	ct	77	ALA	N-CA-CB	-5.35	102.26	110.12
1	cw	173	ARG	CG-CD-NE	-5.35	100.23	112.00
1	cM	85	PRO	O-C-N	-5.35	116.86	123.01
1	cO	140	LYS	N-CA-C	5.35	117.86	111.71
1	cW	79	GLU	CB-CG-CD	-5.35	103.51	112.60
1	d2	174	ALA	N-CA-C	5.35	117.19	111.36
1	d5	33	SER	CA-C-O	-5.35	114.57	119.76
1	d7	87	HIS	CA-CB-CG	5.35	119.15	113.80
1	d7	100	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	d7	191	VAL	O-C-N	-5.35	116.67	121.91
1	da	190	LEU	N-CA-C	5.35	117.19	111.36
1	db	25	LYS	CB-CA-C	5.35	119.67	110.79
1	dg	66	MET	N-CA-C	5.35	117.11	111.28
1	dh	44	SER	CA-C-N	5.35	128.70	121.05
1	dh	44	SER	C-N-CA	5.35	128.70	121.05
1	dm	181	VAL	O-C-N	-5.35	116.32	121.83
1	do	167	ARG	NH1-CZ-NH2	-5.35	112.35	119.30
1	ds	219	GLN	CA-CB-CG	-5.35	103.40	114.10
1	1l	196	PRO	N-CD-CG	5.35	111.22	103.20
1	dC	175	GLU	O-C-N	-5.35	116.35	122.93
1	dR	167	ARG	CA-CB-CG	5.35	124.80	114.10
1	dT	16	SER	CA-C-O	-5.35	114.45	119.80
1	dT	101	GLY	CA-C-N	5.35	127.88	120.29
1	dT	101	GLY	C-N-CA	5.35	127.88	120.29
1	e8	56	LEU	N-CA-C	5.35	118.02	111.82
1	eb	173	ARG	CA-C-O	5.35	125.94	119.31
1	ei	48	THR	CA-C-N	5.35	126.52	119.84
1	ei	48	THR	C-N-CA	5.35	126.52	119.84
1	eC	112	GLN	CA-C-N	5.35	127.89	120.29
1	eC	112	GLN	C-N-CA	5.35	127.89	120.29
1	eG	129	ILE	CB-CA-C	-5.35	105.12	111.97
1	eG	225	GLY	CA-C-N	5.35	128.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eG	225	GLY	C-N-CA	5.35	128.36	120.82
1	eS	59	VAL	CA-C-O	5.35	127.14	121.04
1	eX	14	ALA	CA-C-N	5.35	131.60	121.97
1	eX	14	ALA	C-N-CA	5.35	131.60	121.97
1	eX	56	LEU	O-C-N	-5.35	116.31	122.09
1	f9	19	THR	CA-CB-OG1	5.35	117.62	109.60
1	f9	212	GLU	N-CA-C	5.35	116.79	111.07
1	1v	139	ASN	N-CA-CB	5.35	117.98	110.12
1	fh	58	THR	N-CA-CB	5.35	117.98	110.12
1	fn	96	MET	O-C-N	-5.35	116.29	122.87
1	fq	37	ILE	N-CA-C	5.35	119.35	112.67
1	fr	48	THR	CA-C-N	5.35	125.42	119.32
1	fr	48	THR	C-N-CA	5.35	125.42	119.32
1	fP	18	ARG	N-CA-C	5.35	117.11	111.28
1	fQ	92	GLU	O-C-N	-5.35	116.08	121.27
1	fW	167	ARG	NE-CZ-NH2	-5.35	114.39	119.20
1	fY	39	MET	CG-SD-CE	-5.35	89.13	100.90
1	fY	178	SER	N-CA-C	5.35	117.78	110.24
1	a	98	GLU	N-CA-CB	5.35	118.47	110.02
1	c	38	PRO	N-CA-CB	5.35	108.87	103.25
1	c	131	LYS	CA-C-N	5.35	127.44	120.28
1	c	131	LYS	C-N-CA	5.35	127.44	120.28
1	e	200	THR	N-CA-C	-5.35	105.35	111.07
1	v	178	SER	O-C-N	-5.35	116.75	122.85
1	w	97	ARG	NE-CZ-NH2	-5.35	114.39	119.20
1	x	79	GLU	CB-CG-CD	-5.35	103.51	112.60
1	y	170	LYS	O-C-N	-5.35	115.28	122.23
1	z	32	PHE	N-CA-C	-5.35	105.98	112.88
1	E	197	ASP	CB-CA-C	-5.35	101.91	110.79
1	G	70	LYS	CA-C-N	5.35	127.45	120.28
1	G	70	LYS	C-N-CA	5.35	127.45	120.28
1	M	106	GLY	O-C-N	-5.35	115.60	122.39
1	6	74	ASN	OD1-CG-ND2	-5.35	117.25	122.60
1	9	151	LEU	O-C-N	-5.35	115.69	122.27
1	ge	23	TRP	CB-CA-C	5.35	119.27	110.88
1	hc	16	SER	CA-C-O	-5.35	115.34	119.46
1	hi	213	GLU	N-CA-C	5.35	116.79	111.07
1	hk	75	GLU	CB-CA-C	5.35	119.66	110.79
1	hw	39	MET	N-CA-C	5.35	116.79	111.07
1	hz	167	ARG	CA-C-O	5.35	126.22	120.55
1	hT	98	GLU	CA-C-N	5.35	125.51	119.90
1	hT	98	GLU	C-N-CA	5.35	125.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	22	ALA	CA-C-N	5.35	127.39	120.44
1	ic	22	ALA	C-N-CA	5.35	127.39	120.44
1	if	139	ASN	N-CA-CB	5.35	117.76	110.01
1	iE	211	LEU	CA-C-O	5.35	126.14	120.10
1	iV	167	ARG	CB-CA-C	5.35	119.67	110.79
1	iZ	27	VAL	CA-C-O	5.35	126.51	120.95
1	j0	184	TRP	CA-C-N	5.35	127.39	120.44
1	j0	184	TRP	C-N-CA	5.35	127.39	120.44
1	j1	177	ALA	O-C-N	-5.35	115.48	122.59
1	j5	120	HIS	ND1-CE1-NE2	5.35	113.75	108.40
1	j7	72	THR	N-CA-CB	5.35	117.76	110.01
1	jb	89	GLY	CA-C-N	5.35	126.52	119.84
1	jb	89	GLY	C-N-CA	5.35	126.52	119.84
1	jc	90	PRO	CA-C-O	-5.35	115.34	121.86
1	jf	133	TRP	CB-CG-CD2	-5.35	119.32	126.80
1	jl	143	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	jE	226	HIS	CA-C-O	-5.35	113.02	118.90
1	jS	64	ALA	CA-C-N	5.35	127.44	120.28
1	jS	64	ALA	C-N-CA	5.35	127.44	120.28
1	kr	159	GLU	O-C-N	-5.35	115.54	121.53
1	22	60	GLY	CA-C-O	5.35	129.87	120.57
1	22	62	HIS	CB-CG-ND1	-5.35	114.68	122.70
1	ku	132	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	23	229	ARG	NE-CZ-NH1	5.35	126.85	121.50
1	kU	9	GLN	CA-C-N	5.35	128.94	121.24
1	kU	9	GLN	C-N-CA	5.35	128.94	121.24
1	kU	135	ILE	N-CA-C	5.35	116.07	110.62
1	lu	164	TYR	CB-CG-CD2	-5.35	112.78	120.80
1	29	197	ASP	N-CA-C	-5.35	105.53	111.36
1	lK	224	PRO	CA-C-N	5.35	128.94	120.07
1	lK	224	PRO	C-N-CA	5.35	128.94	120.07
1	2k	219	GLN	CA-C-O	-5.35	113.82	119.97
1	2M	216	THR	CA-C-N	5.35	129.33	120.94
1	2M	216	THR	C-N-CA	5.35	129.33	120.94
1	2X	108	THR	CA-CB-OG1	5.35	117.62	109.60
1	36	75	GLU	N-CA-CB	5.35	117.82	110.07
1	3a	16	SER	CA-C-O	5.35	126.45	120.04
1	3V	100	ARG	NE-CZ-NH2	-5.35	114.39	119.20
1	45	57	ASN	CA-C-O	5.35	125.95	119.11
1	4k	30	LYS	CA-C-N	5.35	131.75	121.54
1	4k	30	LYS	C-N-CA	5.35	131.75	121.54
1	4v	219	GLN	O-C-N	-5.35	116.66	123.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	5	ASN	N-CA-CB	5.35	118.51	110.65
1	4J	79	GLU	CB-CG-CD	-5.35	103.51	112.60
1	57	43	LEU	CA-C-O	5.35	126.40	120.63
1	5k	95	GLN	CA-CB-CG	5.35	124.79	114.10
1	5C	168	PHE	CA-CB-CG	5.35	119.15	113.80
1	5R	4	GLN	CG-CD-NE2	5.35	124.42	116.40
1	65	158	LYS	N-CA-C	5.35	119.96	113.38
1	6e	46	GLY	CA-C-O	5.35	124.93	119.10
1	7t	7	GLN	CG-CD-NE2	5.35	124.42	116.40
1	7w	167	ARG	CA-C-N	5.35	127.70	120.38
1	7w	167	ARG	C-N-CA	5.35	127.70	120.38
1	7D	109	SER	O-C-N	-5.35	116.98	123.29
1	7M	12	HIS	N-CA-C	5.35	118.30	109.85
1	87	48	THR	CA-C-N	5.35	125.41	119.32
1	87	48	THR	C-N-CA	5.35	125.41	119.32
1	8j	156	GLY	CA-C-N	5.35	124.68	118.85
1	8j	156	GLY	C-N-CA	5.35	124.68	118.85
1	93	42	ALA	N-CA-C	5.35	117.86	111.71
1	9g	175	GLU	CA-C-N	5.35	131.51	122.26
1	9g	175	GLU	C-N-CA	5.35	131.51	122.26
1	9s	112	GLN	OE1-CD-NE2	-5.35	117.25	122.60
1	9t	219	GLN	CA-C-O	5.35	126.69	120.49
1	9C	135	ILE	N-CA-C	5.35	116.71	110.62
1	11	90	PRO	CA-C-N	5.35	128.01	120.42
1	11	90	PRO	C-N-CA	5.35	128.01	120.42
1	aU	9	GLN	N-CA-C	5.35	122.19	110.80
1	bw	210	THR	OG1-CB-CG2	-5.35	98.61	109.30
1	by	50	GLN	CA-C-O	5.35	126.22	120.55
1	bE	12	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
1	bG	32	PHE	N-CA-CB	5.35	118.49	109.94
1	bN	133	TRP	CB-CG-CD2	-5.35	119.31	126.80
1	cv	22	ALA	CA-C-O	5.35	126.43	120.82
1	cJ	190	LEU	CA-C-O	5.35	126.40	120.63
1	cY	197	ASP	CA-C-N	5.35	127.44	120.28
1	cY	197	ASP	C-N-CA	5.35	127.44	120.28
1	d6	134	ILE	N-CA-C	5.35	116.12	110.72
1	1k	162	ARG	NH1-CZ-NH2	-5.35	112.35	119.30
1	1k	185	MET	CG-SD-CE	-5.35	89.14	100.90
1	dx	184	TRP	N-CA-C	5.35	117.11	111.28
1	dE	197	ASP	N-CA-C	5.35	116.79	111.07
1	1m	91	ILE	N-CA-C	5.35	118.23	109.78
1	dZ	50	GLN	N-CA-C	5.35	117.11	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	8	GLY	CA-C-O	5.35	124.94	119.01
1	1t	153	ILE	O-C-N	-5.35	115.89	122.57
1	fl	98	GLU	CA-C-O	-5.35	114.87	120.70
1	fZ	167	ARG	N-CA-C	5.35	117.11	111.28
1	fZ	181	VAL	CB-CA-C	-5.35	105.13	111.97
1	p	180	GLU	CG-CD-OE2	5.35	130.69	118.40
1	3	134	ILE	CB-CA-C	5.35	119.36	112.14
1	L	117	TRP	N-CA-C	5.35	117.19	111.36
1	M	28	GLU	CB-CG-CD	-5.35	103.51	112.60
1	N	90	PRO	N-CA-C	5.35	123.48	112.47
1	5	22	ALA	CA-C-O	5.35	126.22	120.55
1	ga	86	VAL	N-CA-C	5.34	115.95	108.89
1	ge	97	ARG	NE-CZ-NH1	-5.34	116.16	121.50
1	gi	183	ASN	O-C-N	-5.34	116.06	122.15
1	gq	68	MET	CA-C-N	5.34	127.88	120.29
1	gq	68	MET	C-N-CA	5.34	127.88	120.29
1	1D	145	TYR	CA-C-O	5.34	125.81	119.56
1	gt	223	GLY	CA-C-N	5.34	125.16	119.28
1	gt	223	GLY	C-N-CA	5.34	125.16	119.28
1	gH	204	ALA	N-CA-C	5.34	117.11	111.28
1	gI	203	LYS	N-CA-C	5.34	116.79	111.07
1	gJ	52	LEU	CA-C-N	5.34	127.44	120.28
1	gJ	52	LEU	C-N-CA	5.34	127.44	120.28
1	gK	172	LEU	N-CA-C	5.34	117.80	111.33
1	gM	53	ASN	CA-CB-CG	-5.34	107.26	112.60
1	gP	120	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	gQ	123	PRO	N-CA-C	5.34	119.61	111.11
1	gV	226	HIS	N-CA-CB	5.34	119.29	110.69
1	1G	155	GLN	CB-CA-C	5.34	119.37	109.70
1	gY	216	THR	CA-C-O	5.34	124.78	118.90
1	h2	211	LEU	CA-C-N	5.34	127.44	120.28
1	h2	211	LEU	C-N-CA	5.34	127.44	120.28
1	h3	28	GLU	CA-C-O	-5.34	114.83	120.55
1	hf	68	MET	CA-C-N	5.34	127.71	120.44
1	hf	68	MET	C-N-CA	5.34	127.71	120.44
1	hk	226	HIS	CG-CD2-NE2	5.34	112.55	107.20
1	hr	61	GLY	O-C-N	-5.34	117.19	122.86
1	hB	144	MET	CA-C-O	5.34	126.22	120.55
1	1L	92	GLU	CA-C-N	5.34	125.34	119.89
1	1L	92	GLU	C-N-CA	5.34	125.34	119.89
1	hK	113	GLU	CA-C-N	5.34	127.39	120.44
1	hK	113	GLU	C-N-CA	5.34	127.39	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hX	76	GLU	CB-CG-CD	5.34	121.69	112.60
1	hX	134	ILE	CA-C-N	5.34	128.01	120.42
1	hX	134	ILE	C-N-CA	5.34	128.01	120.42
1	ih	162	ARG	N-CA-C	5.34	117.86	111.71
1	in	147	PRO	CA-C-O	5.34	123.42	118.29
1	iE	195	ASN	CA-CB-CG	5.34	117.94	112.60
1	iL	97	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	iL	105	ALA	CA-C-O	5.34	125.95	119.11
1	iL	161	PHE	CA-C-O	5.34	124.34	119.00
1	iM	129	ILE	CA-C-O	-5.34	115.12	121.05
1	iN	99	PRO	CA-C-N	5.34	129.90	120.87
1	iN	99	PRO	C-N-CA	5.34	129.90	120.87
1	iQ	6	LEU	N-CA-C	-5.34	100.80	108.60
1	iS	79	GLU	CA-C-O	5.34	126.22	120.55
1	iT	226	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	j3	62	HIS	CA-C-N	5.34	127.71	120.44
1	j3	62	HIS	C-N-CA	5.34	127.71	120.44
1	je	227	LYS	CB-CA-C	5.34	118.97	109.72
1	jl	18	ARG	CB-CG-CD	5.34	123.59	111.30
1	jm	113	GLU	CA-C-N	5.34	127.70	120.38
1	jm	113	GLU	C-N-CA	5.34	127.70	120.38
1	jo	139	ASN	N-CA-C	5.34	118.02	111.82
1	jy	39	MET	CA-C-O	5.34	126.62	120.90
1	jy	97	ARG	O-C-N	-5.34	116.55	122.86
1	jG	27	VAL	O-C-N	-5.34	114.74	122.12
1	k0	55	MET	N-CA-C	5.34	117.52	111.11
1	k6	197	ASP	CA-C-O	5.34	126.08	120.42
1	kd	52	LEU	CA-C-N	5.34	127.70	120.38
1	kd	52	LEU	C-N-CA	5.34	127.70	120.38
1	kg	93	PRO	CA-C-N	5.34	131.41	122.16
1	kg	93	PRO	C-N-CA	5.34	131.41	122.16
1	kg	145	TYR	CA-C-N	5.34	127.82	120.39
1	kg	145	TYR	C-N-CA	5.34	127.82	120.39
1	22	227	LYS	CA-C-O	5.34	125.02	119.14
1	kA	203	LYS	N-CA-C	5.34	117.11	111.28
1	kB	12	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	kF	112	GLN	N-CA-C	5.34	117.52	111.11
1	kH	68	MET	N-CA-C	5.34	116.79	111.07
1	kM	9	GLN	O-C-N	-5.34	116.70	123.01
1	kM	111	LEU	CA-C-N	5.34	127.70	120.38
1	kM	111	LEU	C-N-CA	5.34	127.70	120.38
1	kM	183	ASN	OD1-CG-ND2	-5.34	117.25	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kO	27	VAL	O-C-N	-5.34	116.32	121.83
1	kP	104	ILE	N-CA-CB	-5.34	103.27	110.54
1	kP	181	VAL	CB-CA-C	5.34	119.35	112.14
1	kP	206	GLY	O-C-N	-5.34	116.42	121.77
1	lf	170	LYS	CA-CB-CG	-5.34	103.41	114.10
1	27	104	ILE	N-CA-CB	5.34	116.44	110.51
1	lk	178	SER	CA-C-O	5.34	127.21	121.44
1	lr	126	VAL	CA-CB-CG2	5.34	119.49	110.40
1	lt	195	ASN	CB-CA-C	5.34	117.96	109.52
1	lC	18	ARG	NH1-CZ-NH2	-5.34	112.35	119.30
1	2e	141	ILE	N-CA-CB	5.34	116.80	110.55
1	2k	164	TYR	CB-CA-C	5.34	119.27	110.88
1	2u	154	ARG	CA-C-N	5.34	130.53	123.00
1	2u	154	ARG	C-N-CA	5.34	130.53	123.00
1	2y	108	THR	CA-CB-OG1	5.34	117.62	109.60
1	2B	170	LYS	N-CA-CB	-5.34	102.26	110.01
1	2S	173	ARG	CA-C-O	5.34	126.22	120.55
1	2U	175	GLU	O-C-N	5.34	129.58	122.95
1	2V	123	PRO	CA-C-N	5.34	126.44	122.59
1	2V	123	PRO	C-N-CA	5.34	126.44	122.59
1	3e	144	MET	N-CA-C	5.34	117.86	111.71
1	3m	114	GLN	CG-CD-OE1	5.34	131.49	120.80
1	3q	66	MET	CA-C-N	5.34	127.44	120.28
1	3q	66	MET	C-N-CA	5.34	127.44	120.28
1	3S	109	SER	CA-C-N	5.34	128.82	120.75
1	3S	109	SER	C-N-CA	5.34	128.82	120.75
1	3T	226	HIS	O-C-N	-5.34	116.37	122.89
1	44	210	THR	O-C-N	-5.34	116.55	122.86
1	4c	37	ILE	N-CA-C	5.34	120.36	112.61
1	4i	95	GLN	CB-CG-CD	5.34	121.69	112.60
1	4o	74	ASN	CA-C-N	5.34	127.71	120.44
1	4o	74	ASN	C-N-CA	5.34	127.71	120.44
1	4z	16	SER	N-CA-C	5.34	116.43	109.64
1	4D	43	LEU	N-CA-C	-5.34	106.14	113.30
1	4F	141	ILE	N-CA-C	-5.34	105.29	110.42
1	4N	78	ALA	O-C-N	-5.34	116.32	122.09
1	55	123	PRO	CA-C-N	5.34	126.23	122.60
1	55	123	PRO	C-N-CA	5.34	126.23	122.60
1	5g	33	SER	CA-C-O	-5.34	114.61	120.17
1	5o	77	ALA	N-CA-C	5.34	117.11	111.28
1	5H	85	PRO	CA-C-N	5.34	131.59	121.97
1	5H	85	PRO	C-N-CA	5.34	131.59	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5V	112	GLN	CA-C-N	5.34	127.44	120.28
1	5V	112	GLN	C-N-CA	5.34	127.44	120.28
1	63	195	ASN	CA-C-O	-5.34	114.61	120.17
1	67	219	GLN	O-C-N	-5.34	116.55	122.86
1	6A	150	ILE	O-C-N	-5.34	115.87	122.18
1	6D	48	THR	OG1-CB-CG2	-5.34	98.61	109.30
1	6E	2	ILE	CA-C-O	5.34	126.25	120.53
1	6F	119	THR	N-CA-C	5.34	119.43	113.02
1	6G	139	ASN	OD1-CG-ND2	-5.34	117.25	122.60
1	6G	194	ALA	N-CA-C	5.34	117.62	110.35
1	6L	19	THR	N-CA-CB	5.34	117.98	110.12
1	6M	148	THR	CA-CB-OG1	5.34	117.61	109.60
1	6N	150	ILE	N-CA-C	5.34	119.52	112.04
1	6P	206	GLY	CA-C-N	5.34	126.52	119.84
1	6P	206	GLY	C-N-CA	5.34	126.52	119.84
1	6T	165	VAL	CB-CA-C	-5.34	105.04	111.88
1	71	221	VAL	N-CA-C	-5.34	106.65	113.22
1	73	183	ASN	N-CA-C	5.34	117.86	111.71
1	7b	144	MET	CA-C-O	5.34	126.52	120.00
1	7c	166	ASP	O-C-N	-5.34	116.45	122.12
1	7e	161	PHE	CA-C-N	5.34	127.39	120.44
1	7e	161	PHE	C-N-CA	5.34	127.39	120.44
1	7g	124	ILE	N-CA-C	-5.34	101.74	108.05
1	7y	9	GLN	OE1-CD-NE2	-5.34	117.25	122.60
1	7A	16	SER	N-CA-C	5.34	119.11	109.44
1	7A	87	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	7A	101	GLY	CA-C-N	5.34	128.43	120.31
1	7A	101	GLY	C-N-CA	5.34	128.43	120.31
1	7M	128	GLU	N-CA-C	5.34	117.11	111.28
1	7O	26	VAL	CA-C-N	5.34	128.01	120.42
1	7O	26	VAL	C-N-CA	5.34	128.01	120.42
1	7R	103	ASP	CA-C-O	-5.34	115.20	120.70
1	7R	226	HIS	CA-CB-CG	5.34	119.14	113.80
1	82	123	PRO	CB-CA-C	-5.34	104.55	111.39
1	89	230	VAL	N-CA-CB	5.34	118.47	110.13
1	8j	16	SER	N-CA-C	5.34	117.36	109.50
1	8l	198	CYS	CA-C-N	5.34	127.70	120.38
1	8l	198	CYS	C-N-CA	5.34	127.70	120.38
1	8t	97	ARG	CA-C-O	5.34	128.14	121.89
1	8A	10	MET	O-C-N	-5.34	115.48	122.59
1	8D	51	ASP	CA-C-N	5.34	127.88	120.29
1	8D	51	ASP	C-N-CA	5.34	127.88	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8K	121	ASN	CA-CB-CG	5.34	117.94	112.60
1	8M	59	VAL	CA-C-O	5.34	127.46	120.78
1	8N	9	GLN	O-C-N	-5.34	116.86	123.33
1	8P	121	ASN	CB-CG-ND2	-5.34	108.38	116.40
1	8V	179	GLN	CA-C-N	5.34	127.70	120.38
1	8V	179	GLN	C-N-CA	5.34	127.70	120.38
1	93	121	ASN	O-C-N	-5.34	116.43	121.35
1	96	163	ASP	CA-C-N	5.34	127.39	120.44
1	96	163	ASP	C-N-CA	5.34	127.39	120.44
1	97	53	ASN	CA-CB-CG	-5.34	107.25	112.60
1	9e	128	GLU	CA-C-N	5.34	127.78	120.46
1	9e	128	GLU	C-N-CA	5.34	127.78	120.46
1	9k	217	ALA	N-CA-C	5.34	117.22	110.33
1	9E	29	GLU	O-C-N	-5.34	115.17	122.33
1	9K	131	LYS	N-CA-CB	-5.34	101.99	110.22
1	9L	97	ARG	CA-C-O	5.34	128.15	120.51
1	Y	32	PHE	N-CA-C	-5.34	104.33	111.87
1	9W	108	THR	CB-CA-C	-5.34	101.14	110.17
1	a1	225	GLY	N-CA-C	5.34	118.21	112.33
1	ah	157	PRO	N-CA-CB	-5.34	98.38	103.51
1	11	29	GLU	N-CA-CB	-5.34	102.10	110.44
1	am	104	ILE	CB-CA-C	-5.34	104.85	112.22
1	aq	201	ILE	N-CA-CB	5.34	116.80	110.55
1	at	214	MET	CA-C-N	5.34	127.44	120.28
1	at	214	MET	C-N-CA	5.34	127.44	120.28
1	aF	200	THR	O-C-N	-5.34	116.56	122.07
1	aQ	83	LEU	CA-C-O	5.34	125.02	119.14
1	aW	179	GLN	CB-CG-CD	-5.34	103.52	112.60
1	aY	37	ILE	N-CA-CB	5.34	114.62	110.45
1	b2	173	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	bd	217	ALA	N-CA-CB	5.34	117.87	110.17
1	bl	67	GLN	OE1-CD-NE2	-5.34	117.25	122.60
1	br	102	SER	CA-C-O	5.34	125.95	119.38
1	bw	229	ARG	CA-C-N	5.34	129.06	120.30
1	bw	229	ARG	C-N-CA	5.34	129.06	120.30
1	by	97	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	by	200	THR	CA-CB-CG2	5.34	119.58	110.50
1	bJ	189	LEU	CA-C-N	5.34	127.44	120.28
1	bJ	189	LEU	C-N-CA	5.34	127.44	120.28
1	bU	184	TRP	N-CA-C	5.34	117.11	111.28
1	bX	63	GLN	N-CA-C	5.34	117.11	111.28
1	cc	98	GLU	CA-C-N	5.34	125.35	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cc	98	GLU	C-N-CA	5.34	125.35	119.90
1	ci	32	PHE	CA-CB-CG	-5.34	108.45	113.80
1	1e	37	ILE	N-CA-CB	5.34	114.10	110.52
1	cw	5	ASN	CA-CB-CG	-5.34	107.25	112.60
1	cJ	121	ASN	OD1-CG-ND2	-5.34	117.25	122.60
1	cV	83	LEU	N-CA-C	-5.34	104.88	111.40
1	cZ	54	THR	N-CA-C	-5.34	105.53	111.36
1	d0	122	PRO	CA-C-N	5.34	125.64	119.92
1	d0	122	PRO	C-N-CA	5.34	125.64	119.92
1	1i	175	GLU	CA-C-O	5.34	127.07	120.92
1	d5	205	LEU	N-CA-C	5.34	117.80	111.33
1	1j	115	ILE	CB-CA-C	-5.34	105.04	112.04
1	df	8	GLY	O-C-N	-5.34	116.24	122.60
1	di	105	ALA	CA-C-O	5.34	126.12	119.12
1	do	174	ALA	CA-C-N	5.34	128.44	120.90
1	do	174	ALA	C-N-CA	5.34	128.44	120.90
1	1l	218	CYS	CB-CA-C	5.34	121.05	110.42
1	dy	79	GLU	CA-C-N	5.34	127.39	120.44
1	dy	79	GLU	C-N-CA	5.34	127.39	120.44
1	dL	21	ASN	CA-C-N	5.34	127.70	120.65
1	dL	21	ASN	C-N-CA	5.34	127.70	120.65
1	dM	133	TRP	CB-CA-C	-5.34	102.26	110.81
1	dR	33	SER	CA-C-N	5.34	126.52	119.84
1	dR	33	SER	C-N-CA	5.34	126.52	119.84
1	dT	16	SER	CA-C-N	5.34	125.01	119.56
1	dT	16	SER	C-N-CA	5.34	125.01	119.56
1	e8	46	GLY	CA-C-N	5.34	128.35	120.82
1	e8	46	GLY	C-N-CA	5.34	128.35	120.82
1	eg	120	HIS	CA-CB-CG	5.34	119.14	113.80
1	ej	200	THR	N-CA-CB	5.34	117.76	110.01
1	eo	127	GLY	O-C-N	5.34	127.32	122.19
1	eu	108	THR	N-CA-C	5.34	119.90	113.17
1	ew	20	LEU	CA-C-N	5.34	127.44	120.28
1	ew	20	LEU	C-N-CA	5.34	127.44	120.28
1	eB	100	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	eC	168	PHE	CA-C-N	5.34	127.44	120.28
1	eC	168	PHE	C-N-CA	5.34	127.44	120.28
1	eH	182	LYS	CA-C-O	5.34	126.22	120.55
1	eP	198	CYS	CA-C-O	-5.34	115.21	120.82
1	1t	176	GLN	O-C-N	-5.34	116.94	123.19
1	eU	122	PRO	N-CA-CB	5.34	108.48	102.60
1	eW	23	TRP	CG-CD2-CE3	-5.34	128.56	133.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eW	220	GLY	N-CA-C	-5.34	106.31	115.08
1	f6	21	ASN	CA-CB-CG	5.34	117.94	112.60
1	f9	68	MET	CG-SD-CE	-5.34	89.14	100.90
1	fo	67	GLN	O-C-N	-5.34	116.45	122.12
1	fs	53	ASN	N-CA-CB	5.34	117.76	110.01
1	fz	15	ILE	N-CA-C	5.34	117.33	109.63
1	1y	161	PHE	O-C-N	5.34	127.58	122.07
1	fI	84	HIS	ND1-CE1-NE2	5.34	113.75	108.40
1	fJ	146	SER	O-C-N	-5.34	116.43	121.35
1	fK	170	LYS	O-C-N	5.34	127.59	122.03
1	d	107	THR	N-CA-C	5.34	119.93	113.41
1	f	185	MET	O-C-N	-5.34	116.45	122.12
1	g	81	ASP	CA-CB-CG	5.34	117.94	112.60
1	r	123	PRO	O-C-N	-5.34	116.86	123.01
1	x	36	VAL	O-C-N	-5.34	116.69	121.87
1	y	186	THR	CA-CB-OG1	5.34	117.61	109.60
1	I	119	THR	N-CA-CB	5.34	118.39	110.53
1	X	227	LYS	CA-C-N	5.34	128.94	121.24
1	X	227	LYS	C-N-CA	5.34	128.94	121.24
1	5	225	GLY	CA-C-N	5.34	128.36	120.82
1	5	225	GLY	C-N-CA	5.34	128.36	120.82
1	g9	15	ILE	N-CA-CB	-5.34	102.94	110.26
1	gf	154	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	gg	201	ILE	N-CA-C	5.34	116.07	110.62
1	gh	53	ASN	N-CA-C	5.34	117.85	111.71
1	1C	76	GLU	CA-C-N	5.34	127.39	120.44
1	1C	76	GLU	C-N-CA	5.34	127.39	120.44
1	gF	120	HIS	CA-CB-CG	5.34	119.14	113.80
1	gI	99	PRO	N-CD-CG	5.34	111.22	103.20
1	hf	41	SER	O-C-N	-5.34	116.57	122.07
1	hh	51	ASP	CA-C-N	5.34	127.70	120.38
1	hh	51	ASP	C-N-CA	5.34	127.70	120.38
1	hj	127	GLY	CA-C-N	5.34	127.70	120.38
1	hj	127	GLY	C-N-CA	5.34	127.70	120.38
1	hw	33	SER	CA-C-O	-5.34	115.14	120.64
1	hz	100	ARG	N-CA-C	-5.34	101.29	109.41
1	hC	62	HIS	N-CA-C	5.34	118.95	111.90
1	1N	130	TYR	CB-CG-CD2	-5.34	112.78	120.80
1	id	93	PRO	N-CA-C	-5.34	101.46	112.47
1	il	114	GLN	N-CA-C	5.34	116.79	111.07
1	io	172	LEU	CA-C-O	5.34	126.43	120.82
1	ix	200	THR	O-C-N	-5.34	116.32	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j4	15	ILE	O-C-N	-5.34	116.97	122.63
1	jp	158	LYS	N-CA-C	-5.34	106.63	112.72
1	jA	114	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	jB	82	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	jW	10	MET	N-CA-C	5.34	118.61	111.24
1	k3	70	LYS	CA-C-O	5.34	126.21	120.55
1	k9	188	THR	CA-C-N	5.34	127.39	120.44
1	k9	188	THR	C-N-CA	5.34	127.39	120.44
1	kO	230	VAL	N-CA-C	5.34	115.89	108.84
1	2j	213	GLU	CA-C-N	5.34	129.76	120.68
1	2j	213	GLU	C-N-CA	5.34	129.76	120.68
1	2k	90	PRO	CB-CA-C	-5.34	102.74	111.56
1	2q	21	ASN	O-C-N	-5.34	116.46	122.12
1	2N	73	ILE	CA-C-O	-5.34	115.51	121.17
1	3b	224	PRO	O-C-N	-5.34	115.43	122.64
1	3y	88	ALA	CA-C-N	5.34	130.26	121.87
1	3y	88	ALA	C-N-CA	5.34	130.26	121.87
1	3S	21	ASN	CA-C-O	5.34	126.08	120.42
1	3T	92	GLU	N-CA-CB	-5.34	102.34	110.30
1	48	177	ALA	CA-C-N	5.34	128.82	120.75
1	48	177	ALA	C-N-CA	5.34	128.82	120.75
1	4i	139	ASN	CA-CB-CG	5.34	117.94	112.60
1	4j	52	LEU	CA-C-N	5.34	127.39	120.44
1	4j	52	LEU	C-N-CA	5.34	127.39	120.44
1	4A	167	ARG	O-C-N	-5.34	116.32	122.09
1	4G	31	ALA	N-CA-C	5.34	122.18	110.80
1	4S	201	ILE	O-C-N	-5.34	116.69	121.87
1	5l	82	ARG	NE-CZ-NH1	-5.34	116.16	121.50
1	5L	78	ALA	CA-C-N	5.34	127.39	120.44
1	5L	78	ALA	C-N-CA	5.34	127.39	120.44
1	62	180	GLU	N-CA-C	5.34	117.10	111.28
1	6i	138	LEU	CA-C-N	5.34	127.44	120.28
1	6i	138	LEU	C-N-CA	5.34	127.44	120.28
1	6s	216	THR	CA-C-N	5.34	129.33	120.94
1	6s	216	THR	C-N-CA	5.34	129.33	120.94
1	6L	9	GLN	O-C-N	-5.34	116.21	123.10
1	75	52	LEU	CB-CA-C	-5.34	101.92	110.79
1	7j	200	THR	N-CA-CB	5.34	117.97	110.12
1	7B	156	GLY	CA-C-N	5.34	124.85	119.19
1	7B	156	GLY	C-N-CA	5.34	124.85	119.19
1	7D	18	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	7E	226	HIS	CA-CB-CG	5.34	119.14	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	10	MET	CA-C-N	5.34	127.66	120.50
1	7I	10	MET	C-N-CA	5.34	127.66	120.50
1	81	130	TYR	N-CA-CB	5.34	117.97	110.12
1	89	95	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	8n	87	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	8A	80	TRP	N-CA-C	5.34	116.91	111.14
1	8R	195	ASN	CA-C-N	5.34	126.52	119.84
1	8R	195	ASN	C-N-CA	5.34	126.52	119.84
1	9o	100	ARG	NH1-CZ-NH2	-5.34	112.35	119.30
1	9r	85	PRO	N-CA-C	5.34	119.59	111.15
1	9J	151	LEU	CA-C-O	5.34	125.95	119.38
1	9P	110	THR	CA-CB-OG1	5.34	117.61	109.60
1	9V	188	THR	CA-C-N	5.34	127.44	120.28
1	9V	188	THR	C-N-CA	5.34	127.44	120.28
1	aj	53	ASN	O-C-N	5.34	127.78	122.12
1	ar	77	ALA	O-C-N	-5.34	116.46	122.12
1	ay	104	ILE	O-C-N	5.34	127.05	121.87
1	aG	173	ARG	N-CA-C	5.34	117.86	111.71
1	bq	210	THR	O-C-N	-5.34	116.96	122.94
1	bx	97	ARG	CA-C-O	5.34	128.15	120.51
1	bJ	16	SER	O-C-N	-5.34	116.55	121.30
1	bN	176	GLN	CA-C-N	5.34	128.67	120.82
1	bN	176	GLN	C-N-CA	5.34	128.67	120.82
1	c3	196	PRO	CB-CA-C	5.34	120.38	111.56
1	ca	139	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	cn	154	ARG	CA-C-O	5.34	127.26	121.06
1	co	87	HIS	N-CA-CB	5.34	117.89	110.04
1	cO	125	PRO	N-CA-C	5.34	123.48	112.47
1	cS	121	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	d3	210	THR	O-C-N	-5.34	117.16	123.25
1	d5	118	MET	N-CA-C	5.34	119.52	112.89
1	ds	96	MET	CA-C-O	5.34	127.38	121.56
1	ds	219	GLN	CA-C-O	5.34	126.18	120.46
1	dB	165	VAL	N-CA-C	5.34	115.55	110.42
1	dB	192	GLN	N-CA-C	5.34	118.02	111.82
1	1m	11	VAL	CA-CB-CG1	5.34	119.48	110.40
1	dI	147	PRO	O-C-N	-5.34	115.43	122.64
1	dX	201	ILE	O-C-N	-5.34	116.69	121.87
1	e0	73	ILE	CA-C-N	5.34	127.44	120.28
1	e0	73	ILE	C-N-CA	5.34	127.44	120.28
1	es	137	GLY	O-C-N	-5.34	116.84	122.13
1	ew	168	PHE	CB-CG-CD1	-5.34	111.62	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	179	GLN	N-CA-CB	-5.34	102.26	110.01
1	fb	146	SER	O-C-N	-5.34	116.39	121.57
1	fk	166	ASP	CA-C-N	5.34	127.39	120.44
1	fk	166	ASP	C-N-CA	5.34	127.39	120.44
1	fy	99	PRO	CB-CA-C	5.34	117.92	111.46
1	1z	120	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	1z	228	ALA	CA-C-N	5.34	131.74	121.54
1	1z	228	ALA	C-N-CA	5.34	131.74	121.54
1	fQ	202	LEU	CA-C-O	5.34	126.62	120.90
1	g5	185	MET	N-CA-CB	5.34	117.97	110.12
1	1B	133	TRP	CA-C-N	5.34	128.01	120.42
1	1B	133	TRP	C-N-CA	5.34	128.01	120.42
1	0	188	THR	CA-C-N	5.34	127.44	120.28
1	0	188	THR	C-N-CA	5.34	127.44	120.28
1	h	62	HIS	N-CA-C	5.34	118.81	111.54
1	q	162	ARG	NH1-CZ-NH2	-5.34	112.35	119.30
1	B	183	ASN	N-CA-C	5.34	117.52	111.11
1	V	126	VAL	N-CA-CB	5.34	117.81	110.54
1	gh	107	THR	CA-CB-CG2	5.34	119.58	110.50
1	gp	132	ARG	O-C-N	-5.34	116.46	122.12
1	gr	95	GLN	N-CA-C	5.34	118.33	109.46
1	1D	54	THR	CA-C-N	5.34	127.44	120.28
1	1D	54	THR	C-N-CA	5.34	127.44	120.28
1	gs	214	MET	CA-C-N	5.34	127.97	120.28
1	gs	214	MET	C-N-CA	5.34	127.97	120.28
1	gM	23	TRP	CA-CB-CG	5.34	123.75	113.60
1	h9	39	MET	CA-C-N	5.34	127.44	120.28
1	h9	39	MET	C-N-CA	5.34	127.44	120.28
1	1I	190	LEU	N-CA-C	5.34	117.79	111.33
1	hg	20	LEU	N-CA-C	5.34	117.18	111.36
1	hv	141	ILE	CA-C-N	5.34	127.49	120.60
1	hv	141	ILE	C-N-CA	5.34	127.49	120.60
1	hw	15	ILE	CA-CB-CG1	5.34	119.48	110.40
1	1L	60	GLY	CA-C-N	5.34	126.26	120.44
1	1L	60	GLY	C-N-CA	5.34	126.26	120.44
1	hM	213	GLU	N-CA-CB	5.34	117.75	110.01
1	hS	13	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	i9	74	ASN	O-C-N	-5.34	115.70	122.27
1	ih	62	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	il	96	MET	CA-C-N	5.34	131.74	121.54
1	il	96	MET	C-N-CA	5.34	131.74	121.54
1	iq	23	TRP	CB-CG-CD1	-5.34	118.89	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iq	134	ILE	N-CA-C	5.34	115.55	110.42
1	is	57	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	iD	149	SER	CA-C-O	-5.34	114.56	120.33
1	iF	197	ASP	O-C-N	-5.34	115.70	122.27
1	iR	28	GLU	N-CA-C	5.34	116.78	111.07
1	iR	167	ARG	CD-NE-CZ	-5.34	116.92	124.40
1	iZ	195	ASN	CA-C-N	5.34	126.52	119.84
1	iZ	195	ASN	C-N-CA	5.34	126.52	119.84
1	1T	191	VAL	N-CA-C	5.34	116.07	110.62
1	j3	55	MET	O-C-N	-5.34	116.57	122.07
1	j8	95	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	je	223	GLY	O-C-N	-5.34	116.43	121.77
1	jm	49	PRO	N-CA-C	5.34	120.86	113.65
1	jI	164	TYR	CA-C-O	5.34	126.43	120.82
1	jL	24	VAL	CA-C-N	5.34	127.44	120.28
1	jL	24	VAL	C-N-CA	5.34	127.44	120.28
1	jO	70	LYS	O-C-N	5.34	127.57	122.07
1	1Y	24	VAL	N-CA-C	5.34	115.55	110.42
1	jQ	80	TRP	CA-C-O	5.34	126.40	120.63
1	k6	21	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	k9	20	LEU	CA-C-N	5.34	128.18	120.38
1	k9	20	LEU	C-N-CA	5.34	128.18	120.38
1	k9	217	ALA	CA-C-N	5.34	129.76	122.34
1	k9	217	ALA	C-N-CA	5.34	129.76	122.34
1	kf	79	GLU	N-CA-C	5.34	116.78	111.07
1	kv	107	THR	N-CA-C	-5.34	107.13	113.97
1	kF	192	GLN	N-CA-C	5.34	117.10	111.28
1	kG	162	ARG	CB-CA-C	-5.34	101.92	110.79
1	kK	211	LEU	N-CA-C	5.34	117.79	111.33
1	24	13	GLN	CA-C-N	5.34	128.30	120.71
1	24	13	GLN	C-N-CA	5.34	128.30	120.71
1	kQ	180	GLU	N-CA-C	5.34	117.10	111.28
1	l3	80	TRP	CZ3-CH2-CZ2	-5.34	114.56	121.50
1	lp	203	LYS	O-C-N	-5.34	116.46	122.12
1	lx	15	ILE	O-C-N	-5.34	116.97	122.63
1	lx	198	CYS	CA-C-O	-5.34	114.86	120.63
1	lB	171	THR	CA-C-O	5.34	126.08	120.42
1	2a	56	LEU	N-CA-CB	5.34	117.97	110.12
1	lN	82	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	lO	216	THR	N-CA-C	5.34	119.90	113.17
1	2g	41	SER	CA-C-O	-5.34	114.86	120.63
1	2k	136	LEU	O-C-N	-5.34	116.46	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2z	162	ARG	CA-C-N	5.34	127.38	120.44
1	2z	162	ARG	C-N-CA	5.34	127.38	120.44
1	2E	16	SER	CA-C-N	5.34	124.67	118.85
1	2E	16	SER	C-N-CA	5.34	124.67	118.85
1	2J	92	GLU	N-CA-C	5.34	121.62	109.81
1	2O	63	GLN	N-CA-C	5.34	116.79	111.07
1	2P	84	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	2X	167	ARG	CG-CD-NE	-5.34	100.25	112.00
1	3a	62	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	3K	180	GLU	N-CA-C	5.34	117.10	111.28
1	3N	112	GLN	N-CA-CB	5.34	118.07	110.06
1	3P	143	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	3Q	40	PHE	O-C-N	5.34	127.57	122.07
1	3Y	203	LYS	CA-C-O	5.34	125.93	119.31
1	47	185	MET	O-C-N	-5.34	116.53	122.09
1	4f	52	LEU	N-CA-C	5.34	117.18	111.36
1	4p	197	ASP	O-C-N	-5.34	116.06	122.15
1	4q	31	ALA	CA-C-N	5.34	131.74	121.54
1	4q	31	ALA	C-N-CA	5.34	131.74	121.54
1	4F	217	ALA	CA-C-O	5.34	126.95	120.81
1	4I	11	VAL	N-CA-C	5.34	115.40	108.35
1	4T	160	PRO	O-C-N	-5.34	116.45	122.91
1	4Z	143	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	54	117	TRP	N-CA-C	5.34	118.02	111.82
1	5b	71	GLU	CA-C-N	5.34	127.75	120.54
1	5b	71	GLU	C-N-CA	5.34	127.75	120.54
1	5i	50	GLN	O-C-N	-5.34	116.06	122.15
1	5i	92	GLU	CA-C-N	5.34	125.60	119.83
1	5i	92	GLU	C-N-CA	5.34	125.60	119.83
1	5k	9	GLN	N-CA-C	5.34	117.52	111.11
1	5o	133	TRP	N-CA-CB	5.34	117.97	110.12
1	5p	59	VAL	N-CA-C	5.34	115.94	108.89
1	5S	205	LEU	CA-C-O	5.34	125.95	119.38
1	64	128	GLU	O-C-N	-5.34	115.70	122.27
1	66	210	THR	O-C-N	-5.34	116.43	122.68
1	6s	167	ARG	CA-C-O	5.34	126.08	120.42
1	6B	213	GLU	N-CA-C	5.34	117.52	111.11
1	6K	45	GLU	N-CA-CB	5.34	119.52	110.49
1	6T	89	GLY	O-C-N	-5.34	116.43	121.77
1	6U	4	GLN	N-CA-C	5.34	118.06	110.10
1	77	154	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	7d	191	VAL	CA-C-O	5.34	125.66	119.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	8	GLY	O-C-N	-5.34	115.76	122.70
1	7y	195	ASN	CA-C-N	5.34	125.41	119.32
1	7y	195	ASN	C-N-CA	5.34	125.41	119.32
1	7F	143	ARG	NE-CZ-NH2	5.34	124.01	119.20
1	7I	208	ALA	N-CA-CB	-5.34	104.03	112.63
1	7N	219	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	7Z	65	ALA	CB-CA-C	5.34	119.27	110.88
1	89	76	GLU	O-C-N	-5.34	116.06	122.15
1	8h	153	ILE	CB-CA-C	5.34	117.53	110.91
1	8l	100	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	8l	166	ASP	CA-CB-CG	5.34	117.94	112.60
1	8n	12	HIS	CB-CG-CD2	-5.34	124.26	131.20
1	8o	191	VAL	CA-CB-CG1	5.34	119.48	110.40
1	8t	65	ALA	CA-C-O	5.34	126.43	120.82
1	8v	190	LEU	CA-C-O	5.34	126.21	120.55
1	8H	87	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	8J	222	GLY	N-CA-C	5.34	120.69	111.98
1	8K	126	VAL	CA-C-N	5.34	125.87	119.94
1	8K	126	VAL	C-N-CA	5.34	125.87	119.94
1	8Q	73	ILE	CA-C-N	5.34	127.38	120.44
1	8Q	73	ILE	C-N-CA	5.34	127.38	120.44
1	91	80	TRP	CE3-CZ3-CH2	-5.34	114.16	121.10
1	9d	87	HIS	CA-C-N	5.34	127.44	120.28
1	9d	87	HIS	C-N-CA	5.34	127.44	120.28
1	9d	132	ARG	CA-C-N	5.34	127.88	120.29
1	9d	132	ARG	C-N-CA	5.34	127.88	120.29
1	9e	50	GLN	CA-C-N	5.34	127.38	120.44
1	9e	50	GLN	C-N-CA	5.34	127.38	120.44
1	9s	177	ALA	N-CA-C	5.34	122.17	110.80
1	9u	29	GLU	N-CA-CB	5.34	117.75	110.01
1	9v	136	LEU	N-CA-C	5.34	117.10	111.28
1	9y	51	ASP	O-C-N	-5.34	116.57	122.07
1	9B	194	ALA	CA-C-N	5.34	127.81	120.39
1	9B	194	ALA	C-N-CA	5.34	127.81	120.39
1	9E	67	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	9L	76	GLU	N-CA-CB	5.34	117.97	110.12
1	9P	124	ILE	CA-CB-CG2	-5.34	101.42	110.50
1	a2	120	HIS	CA-CB-CG	-5.34	108.46	113.80
1	a5	62	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	am	120	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	an	49	PRO	CA-C-N	5.34	127.39	120.44
1	an	49	PRO	C-N-CA	5.34	127.39	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	an	179	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	ao	83	LEU	N-CA-C	5.34	119.06	112.54
1	at	213	GLU	CA-C-N	5.34	127.44	120.28
1	at	213	GLU	C-N-CA	5.34	127.44	120.28
1	av	167	ARG	N-CA-CB	-5.34	102.27	110.12
1	ax	117	TRP	O-C-N	-5.34	116.06	122.15
1	aD	32	PHE	O-C-N	5.34	129.69	122.59
1	aE	7	GLN	CA-C-N	5.34	129.70	121.42
1	aE	7	GLN	C-N-CA	5.34	129.70	121.42
1	aV	53	ASN	N-CA-C	5.34	116.78	111.07
1	aW	111	LEU	N-CA-C	5.34	117.79	111.33
1	b4	167	ARG	CB-CG-CD	5.34	123.58	111.30
1	b4	198	CYS	N-CA-C	5.34	116.79	111.07
1	bk	72	THR	CA-C-O	5.34	126.11	119.97
1	bk	98	GLU	O-C-N	-5.34	115.66	121.53
1	bn	37	ILE	CA-C-N	5.34	126.52	119.84
1	bn	37	ILE	C-N-CA	5.34	126.52	119.84
1	bA	200	THR	CA-C-N	5.34	128.00	120.42
1	bA	200	THR	C-N-CA	5.34	128.00	120.42
1	bB	97	ARG	N-CA-C	5.34	117.61	110.35
1	bD	33	SER	CA-C-O	-5.34	115.59	120.50
1	bR	141	ILE	N-CA-C	5.34	116.07	110.62
1	bT	132	ARG	CA-C-N	5.34	127.70	120.44
1	bT	132	ARG	C-N-CA	5.34	127.70	120.44
1	bX	183	ASN	N-CA-CB	5.34	117.75	110.01
1	c4	82	ARG	CG-CD-NE	-5.34	100.25	112.00
1	c4	146	SER	N-CA-C	5.34	120.75	113.16
1	cd	189	LEU	CA-C-O	-5.34	112.69	119.31
1	ch	21	ASN	CA-CB-CG	5.34	117.94	112.60
1	cj	28	GLU	N-CA-CB	-5.34	102.25	110.16
1	cp	228	ALA	N-CA-CB	5.34	119.52	110.49
1	1e	165	VAL	CA-C-N	5.34	127.38	120.44
1	1e	165	VAL	C-N-CA	5.34	127.38	120.44
1	cq	192	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	cs	157	PRO	CB-CA-C	-5.34	103.88	111.68
1	ct	61	GLY	N-CA-C	5.34	118.21	112.33
1	cw	177	ALA	N-CA-CB	-5.34	102.40	111.69
1	cD	132	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	cR	82	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	1h	88	ALA	N-CA-CB	-5.34	101.19	110.17
1	1h	115	ILE	CA-CB-CG1	5.34	119.48	110.40
1	d3	67	GLN	N-CA-C	5.34	117.10	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d4	63	GLN	CB-CA-C	-5.34	100.75	110.63
1	d6	20	LEU	O-C-N	-5.34	116.06	122.15
1	df	14	ALA	N-CA-C	5.34	118.06	110.10
1	dq	229	ARG	N-CA-C	5.34	122.18	110.80
1	dD	4	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	dG	84	HIS	CB-CA-C	-5.34	104.24	110.17
1	dJ	30	LYS	CA-C-N	5.34	131.74	121.54
1	dJ	30	LYS	C-N-CA	5.34	131.74	121.54
1	dM	200	THR	N-CA-C	5.34	117.10	111.28
1	dS	149	SER	CA-C-N	5.34	127.78	120.46
1	dS	149	SER	C-N-CA	5.34	127.78	120.46
1	dW	97	ARG	CA-CB-CG	5.34	124.78	114.10
1	1o	62	HIS	O-C-N	-5.34	116.17	122.58
1	e7	215	MET	CA-C-O	-5.34	114.89	120.55
1	1p	135	ILE	CA-C-O	-5.34	115.39	120.95
1	eg	62	HIS	CB-CG-ND1	-5.34	114.69	122.70
1	eq	228	ALA	N-CA-C	5.34	122.18	110.80
1	1s	129	ILE	O-C-N	-5.34	116.68	121.91
1	eN	110	THR	CA-C-O	5.34	128.67	121.89
1	eN	154	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	eO	62	HIS	CB-CG-CD2	-5.34	124.25	131.20
1	f2	229	ARG	N-CA-C	-5.34	102.61	110.52
1	f3	53	ASN	CA-CB-CG	5.34	117.94	112.60
1	f5	13	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	1v	15	ILE	CA-CB-CG1	5.34	119.48	110.40
1	1v	224	PRO	CA-C-N	5.34	129.31	122.85
1	1v	224	PRO	C-N-CA	5.34	129.31	122.85
1	fd	171	THR	N-CA-C	-5.34	105.54	111.36
1	ff	44	SER	N-CA-CB	5.34	118.22	110.47
1	fn	205	LEU	CA-C-N	5.34	130.26	121.87
1	fn	205	LEU	C-N-CA	5.34	130.26	121.87
1	fo	195	ASN	CA-CB-CG	-5.34	107.26	112.60
1	fs	87	HIS	CB-CA-C	-5.34	101.10	109.70
1	fB	4	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	fC	160	PRO	CA-C-N	5.34	127.44	120.28
1	fC	160	PRO	C-N-CA	5.34	127.44	120.28
1	fS	168	PHE	N-CA-C	5.34	116.79	111.07
1	fS	196	PRO	CA-C-N	5.34	127.38	120.44
1	fS	196	PRO	C-N-CA	5.34	127.38	120.44
1	fW	22	ALA	O-C-N	-5.34	116.57	122.07
1	fW	62	HIS	CB-CG-CD2	5.34	138.14	131.20
1	i	219	GLN	CG-CD-NE2	-5.34	108.39	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	84	HIS	O-C-N	-5.34	115.28	121.47
1	n	82	ARG	O-C-N	-5.34	115.19	122.19
1	t	11	VAL	O-C-N	-5.34	115.16	122.26
1	2	170	LYS	CB-CG-CD	5.34	123.59	111.30
1	y	58	THR	CA-C-O	5.34	125.89	119.59
1	H	119	THR	CA-C-N	5.34	128.67	120.82
1	H	119	THR	C-N-CA	5.34	128.67	120.82
1	S	93	PRO	CA-N-CD	-5.34	104.52	112.00
1	5	5	ASN	N-CA-CB	-5.34	102.26	111.55
1	gt	136	LEU	CA-C-N	5.34	125.87	120.00
1	gt	136	LEU	C-N-CA	5.34	125.87	120.00
1	1E	110	THR	CA-C-N	5.34	127.75	120.54
1	1E	110	THR	C-N-CA	5.34	127.75	120.54
1	gG	153	ILE	CA-C-O	-5.34	114.40	120.65
1	gU	10	MET	CG-SD-CE	-5.34	89.15	100.90
1	gX	32	PHE	N-CA-CB	5.34	118.39	110.49
1	1H	32	PHE	CA-C-N	5.34	132.67	123.11
1	1H	32	PHE	C-N-CA	5.34	132.67	123.11
1	h9	12	HIS	CA-CB-CG	-5.34	108.46	113.80
1	h9	98	GLU	O-C-N	-5.34	116.49	121.72
1	hc	6	LEU	N-CA-C	5.34	117.97	110.23
1	hc	9	GLN	CB-CG-CD	5.34	121.68	112.60
1	hi	59	VAL	CB-CA-C	-5.34	103.36	111.69
1	ho	136	LEU	CA-C-N	5.34	126.02	119.99
1	ho	136	LEU	C-N-CA	5.34	126.02	119.99
1	hv	101	GLY	O-C-N	-5.34	117.06	122.19
1	hw	82	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	hD	140	LYS	O-C-N	-5.34	116.46	122.12
1	hG	132	ARG	O-C-N	-5.34	116.46	122.12
1	hG	167	ARG	CA-C-N	5.34	127.38	120.44
1	hG	167	ARG	C-N-CA	5.34	127.38	120.44
1	hJ	167	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	1L	110	THR	N-CA-CB	5.34	118.08	110.44
1	hL	141	ILE	CB-CA-C	-5.34	105.14	111.81
1	1M	217	ALA	CB-CA-C	-5.34	100.86	109.72
1	hZ	186	THR	CA-C-N	5.34	127.44	120.28
1	hZ	186	THR	C-N-CA	5.34	127.44	120.28
1	1N	165	VAL	CB-CA-C	-5.34	104.93	112.14
1	ib	201	ILE	N-CA-C	5.34	115.55	110.42
1	id	18	ARG	O-C-N	-5.34	116.57	122.07
1	il	49	PRO	N-CA-CB	5.34	109.35	103.26
1	iA	7	GLN	O-C-N	-5.34	117.24	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	143	ARG	NH1-CZ-NH2	5.34	126.24	119.30
1	iU	126	VAL	CB-CA-C	-5.34	104.93	112.14
1	iV	192	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	j6	15	ILE	CA-C-N	5.34	128.47	120.83
1	j6	15	ILE	C-N-CA	5.34	128.47	120.83
1	j6	153	ILE	CB-CA-C	5.34	120.05	111.29
1	j9	81	ASP	CA-CB-CG	5.34	117.94	112.60
1	1U	25	LYS	CA-C-N	5.34	127.77	120.46
1	1U	25	LYS	C-N-CA	5.34	127.77	120.46
1	jf	38	PRO	CA-C-N	5.34	128.21	120.79
1	jf	38	PRO	C-N-CA	5.34	128.21	120.79
1	jf	212	GLU	N-CA-C	5.34	117.10	111.28
1	ji	164	TYR	N-CA-C	5.34	117.10	111.28
1	1V	91	ILE	CA-CB-CG2	5.34	119.58	110.50
1	jn	70	LYS	O-C-N	5.34	128.24	122.15
1	jo	151	LEU	N-CA-C	5.34	117.10	111.28
1	jt	96	MET	O-C-N	-5.34	116.38	122.89
1	jL	162	ARG	CA-C-O	5.34	126.11	119.97
1	jW	2	ILE	N-CA-CB	5.34	120.04	111.23
1	jZ	9	GLN	N-CA-CB	-5.34	102.33	110.45
1	k6	155	GLN	N-CA-CB	5.34	117.89	109.83
1	kb	98	GLU	CA-C-O	-5.34	114.78	120.23
1	ke	97	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	kl	54	THR	OG1-CB-CG2	-5.34	98.62	109.30
1	kv	50	GLN	CB-CA-C	-5.34	100.42	110.67
1	kx	98	GLU	CA-C-N	5.34	125.26	119.76
1	kx	98	GLU	C-N-CA	5.34	125.26	119.76
1	kD	81	ASP	CA-CB-CG	-5.34	107.26	112.60
1	kJ	208	ALA	CA-C-O	-5.34	115.20	121.07
1	l1	195	ASN	CB-CA-C	5.34	120.69	110.17
1	lh	230	VAL	N-CA-C	5.34	118.22	109.78
1	li	4	GLN	N-CA-CB	5.34	119.51	110.49
1	lj	181	VAL	CB-CA-C	-5.34	105.13	111.97
1	28	95	GLN	CA-CB-CG	5.34	124.78	114.10
1	lx	41	SER	CA-C-N	5.34	127.44	120.28
1	lx	41	SER	C-N-CA	5.34	127.44	120.28
1	lz	136	LEU	N-CA-CB	-5.34	102.27	110.12
1	lA	199	LYS	CA-C-O	5.34	126.21	120.55
1	lC	52	LEU	N-CA-C	5.34	117.10	111.28
1	lD	91	ILE	CA-C-O	5.34	126.02	120.25
1	lK	98	GLU	CA-C-O	-5.34	114.88	120.70
1	2e	84	HIS	O-C-N	-5.34	115.18	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2f	169	TYR	N-CA-C	5.34	119.05	112.54
1	2l	155	GLN	CA-C-N	5.34	130.25	121.87
1	2l	155	GLN	C-N-CA	5.34	130.25	121.87
1	2s	229	ARG	CG-CD-NE	-5.34	100.25	112.00
1	2A	18	ARG	CB-CA-C	5.34	119.66	110.79
1	2K	221	VAL	O-C-N	-5.34	116.15	122.66
1	2M	140	LYS	O-C-N	-5.34	116.57	122.07
1	2R	21	ASN	CA-C-N	5.34	127.44	120.28
1	2R	21	ASN	C-N-CA	5.34	127.44	120.28
1	2R	116	GLY	N-CA-C	5.34	119.14	112.73
1	2Z	209	ALA	O-C-N	-5.34	116.08	122.27
1	32	107	THR	N-CA-CB	5.34	118.56	110.28
1	3g	50	GLN	CA-C-N	5.34	127.38	120.44
1	3g	50	GLN	C-N-CA	5.34	127.38	120.44
1	3h	77	ALA	O-C-N	-5.34	115.29	122.23
1	3q	100	ARG	NE-CZ-NH2	5.34	124.00	119.20
1	3q	189	LEU	N-CA-C	5.34	118.01	111.82
1	3r	167	ARG	CD-NE-CZ	5.34	131.88	124.40
1	3s	198	CYS	N-CA-CB	5.34	118.34	110.33
1	3t	67	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	3t	209	ALA	N-CA-C	5.34	122.17	110.80
1	3z	193	ASN	O-C-N	-5.34	115.33	122.49
1	3A	111	LEU	CA-C-N	5.34	127.38	120.44
1	3A	111	LEU	C-N-CA	5.34	127.38	120.44
1	3G	211	LEU	CB-CA-C	-5.34	100.75	110.63
1	3O	204	ALA	CB-CA-C	-5.34	102.43	110.92
1	3R	95	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	3X	112	GLN	O-C-N	-5.34	116.46	122.12
1	4b	17	PRO	N-CA-CB	5.34	108.43	103.46
1	4b	125	PRO	CA-C-O	-5.34	115.68	121.77
1	4g	210	THR	CA-C-O	5.34	127.38	121.56
1	4g	217	ALA	N-CA-C	5.34	117.97	110.23
1	4l	175	GLU	CA-C-N	5.34	128.35	120.82
1	4l	175	GLU	C-N-CA	5.34	128.35	120.82
1	4l	218	CYS	N-CA-CB	5.34	119.51	110.49
1	4p	26	VAL	N-CA-CB	5.34	117.80	110.54
1	4x	208	ALA	N-CA-CB	-5.34	103.98	111.62
1	4B	65	ALA	O-C-N	-5.34	116.06	122.15
1	4K	190	LEU	CA-C-N	5.34	128.00	120.42
1	4K	190	LEU	C-N-CA	5.34	128.00	120.42
1	4U	135	ILE	CA-C-N	5.34	127.38	120.44
1	4U	135	ILE	C-N-CA	5.34	127.38	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	50	210	THR	CA-C-N	5.34	127.43	120.28
1	50	210	THR	C-N-CA	5.34	127.43	120.28
1	56	137	GLY	O-C-N	-5.34	116.46	122.28
1	58	195	ASN	CA-C-O	-5.34	115.14	120.64
1	5f	56	LEU	CB-CA-C	-5.34	102.50	110.88
1	5n	41	SER	CA-C-N	5.34	127.38	120.44
1	5n	41	SER	C-N-CA	5.34	127.38	120.44
1	5t	130	TYR	N-CA-C	5.34	117.10	111.28
1	5M	130	TYR	CB-CG-CD2	5.34	128.81	120.80
1	5P	62	HIS	ND1-CG-CD2	5.34	111.44	106.10
1	5X	95	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	66	188	THR	N-CA-C	5.34	120.16	113.43
1	67	62	HIS	CA-CB-CG	-5.34	108.46	113.80
1	69	75	GLU	O-C-N	-5.34	116.57	122.07
1	6c	176	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	6g	36	VAL	CB-CA-C	5.34	119.35	112.14
1	6l	130	TYR	O-C-N	-5.34	116.46	122.12
1	6A	105	ALA	N-CA-CB	-5.34	102.73	110.47
1	6B	121	ASN	OD1-CG-ND2	-5.34	117.26	122.60
1	6O	137	GLY	O-C-N	-5.34	117.06	122.19
1	6P	139	ASN	CA-C-N	5.34	127.43	120.28
1	6P	139	ASN	C-N-CA	5.34	127.43	120.28
1	6U	186	THR	CA-C-O	5.34	126.08	120.42
1	76	84	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	7a	107	THR	CB-CA-C	-5.34	102.27	110.81
1	7b	143	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	7j	219	GLN	N-CA-CB	5.34	117.81	110.07
1	7p	138	LEU	CA-C-O	-5.34	114.89	120.55
1	7r	226	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	7B	87	HIS	CB-CG-CD2	5.34	138.14	131.20
1	7F	22	ALA	N-CA-C	5.34	117.10	111.28
1	7L	205	LEU	CA-C-N	5.34	130.25	121.87
1	7L	205	LEU	C-N-CA	5.34	130.25	121.87
1	7M	51	ASP	CA-C-N	5.34	127.70	120.44
1	7M	51	ASP	C-N-CA	5.34	127.70	120.44
1	7R	14	ALA	N-CA-C	5.34	118.18	110.28
1	86	86	VAL	O-C-N	-5.34	116.88	122.81
1	88	132	ARG	CB-CA-C	5.34	119.36	110.81
1	8g	65	ALA	N-CA-C	5.34	117.10	111.28
1	8k	34	PRO	N-CA-C	5.34	123.47	112.47
1	8F	190	LEU	CA-C-N	5.34	127.78	120.46
1	8F	190	LEU	C-N-CA	5.34	127.78	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8K	167	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	8S	72	THR	CA-C-O	-5.34	115.21	120.82
1	94	160	PRO	CA-C-N	5.34	127.38	120.44
1	94	160	PRO	C-N-CA	5.34	127.38	120.44
1	99	139	ASN	CA-C-N	5.34	127.75	120.54
1	99	139	ASN	C-N-CA	5.34	127.75	120.54
1	99	200	THR	CA-CB-CG2	-5.34	101.42	110.50
1	9a	12	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	9g	10	MET	CA-C-O	5.34	126.83	120.53
1	9i	168	PHE	CA-CB-CG	5.34	119.14	113.80
1	9l	42	ALA	CA-C-N	5.34	127.44	120.28
1	9l	42	ALA	C-N-CA	5.34	127.44	120.28
1	9o	18	ARG	N-CA-C	-5.34	105.50	112.23
1	9y	77	ALA	CA-C-N	5.34	127.87	120.29
1	9y	77	ALA	C-N-CA	5.34	127.87	120.29
1	9I	9	GLN	CA-C-O	-5.34	116.00	121.87
1	9K	166	ASP	CA-C-N	5.34	127.38	120.44
1	9K	166	ASP	C-N-CA	5.34	127.38	120.44
1	Y	148	THR	O-C-N	-5.34	117.13	123.22
1	9S	59	VAL	CA-C-O	5.34	126.50	120.95
1	9Y	86	VAL	O-C-N	-5.34	116.88	122.81
1	a5	162	ARG	N-CA-C	5.34	116.78	111.07
1	11	15	ILE	O-C-N	-5.34	117.22	122.67
1	aq	16	SER	CA-C-N	5.34	125.41	119.32
1	aq	16	SER	C-N-CA	5.34	125.41	119.32
1	as	145	TYR	CB-CG-CD2	-5.34	112.79	120.80
1	as	149	SER	O-C-N	-5.34	116.96	122.94
1	av	173	ARG	NE-CZ-NH2	5.34	124.00	119.20
1	aB	24	VAL	CA-C-N	5.34	127.87	120.29
1	aB	24	VAL	C-N-CA	5.34	127.87	120.29
1	13	202	LEU	N-CA-C	5.34	117.18	111.36
1	aH	50	GLN	N-CA-CB	5.34	117.97	110.12
1	aH	92	GLU	O-C-N	-5.34	116.55	121.30
1	b0	221	VAL	O-C-N	-5.34	117.41	123.18
1	b5	118	MET	N-CA-C	5.34	117.18	111.36
1	16	141	ILE	N-CA-C	5.34	116.82	111.00
1	bo	79	GLU	N-CA-CB	5.34	117.89	109.94
1	bq	172	LEU	CA-C-N	5.34	127.44	120.28
1	bq	172	LEU	C-N-CA	5.34	127.44	120.28
1	bt	106	GLY	N-CA-C	-5.34	107.66	115.72
1	by	93	PRO	O-C-N	-5.34	117.37	123.03
1	by	108	THR	N-CA-CB	5.34	118.36	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	178	SER	CA-C-N	5.34	127.43	120.28
1	bz	178	SER	C-N-CA	5.34	127.43	120.28
1	bP	97	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	bV	210	THR	O-C-N	-5.34	116.56	122.86
1	1b	92	GLU	CA-C-N	5.34	126.05	120.12
1	1b	92	GLU	C-N-CA	5.34	126.05	120.12
1	c2	101	GLY	CA-C-O	5.34	126.17	120.30
1	c3	154	ARG	CA-C-N	5.34	128.93	121.24
1	c3	154	ARG	C-N-CA	5.34	128.93	121.24
1	c9	139	ASN	CA-C-N	5.34	127.38	120.44
1	c9	139	ASN	C-N-CA	5.34	127.38	120.44
1	cc	62	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	cc	173	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	cf	150	ILE	CA-C-N	5.34	127.44	120.28
1	cf	150	ILE	C-N-CA	5.34	127.44	120.28
1	cl	219	GLN	CB-CG-CD	5.34	121.68	112.60
1	cn	58	THR	CA-C-N	5.34	129.03	121.66
1	cn	58	THR	C-N-CA	5.34	129.03	121.66
1	co	167	ARG	CA-C-N	5.34	127.38	120.44
1	co	167	ARG	C-N-CA	5.34	127.38	120.44
1	cy	88	ALA	CA-C-O	5.34	126.75	120.98
1	cy	198	CYS	CA-C-N	5.34	127.69	120.38
1	cy	198	CYS	C-N-CA	5.34	127.69	120.38
1	cD	40	PHE	O-C-N	-5.34	116.46	122.12
1	1l	197	ASP	CA-CB-CG	5.34	117.94	112.60
1	dz	5	ASN	N-CA-C	5.34	117.92	109.96
1	dE	9	GLN	N-CA-CB	5.34	119.52	110.49
1	dH	25	LYS	CA-C-N	5.34	127.78	120.46
1	dH	25	LYS	C-N-CA	5.34	127.78	120.46
1	dT	80	TRP	CB-CG-CD2	5.34	134.28	126.80
1	dU	162	ARG	CA-CB-CG	5.34	124.78	114.10
1	dV	161	PHE	CA-CB-CG	-5.34	108.46	113.80
1	e6	28	GLU	N-CA-CB	-5.34	102.27	110.12
1	ei	173	ARG	NE-CZ-NH2	5.34	124.00	119.20
1	el	115	ILE	CA-C-N	5.34	125.87	119.94
1	el	115	ILE	C-N-CA	5.34	125.87	119.94
1	eu	26	VAL	CB-CA-C	-5.34	105.03	112.02
1	1r	169	TYR	O-C-N	-5.34	115.97	122.22
1	1s	217	ALA	CA-C-N	5.34	131.74	121.54
1	1s	217	ALA	C-N-CA	5.34	131.74	121.54
1	eS	215	MET	CA-C-O	5.34	125.74	119.28
1	eY	226	HIS	O-C-N	-5.34	117.02	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f2	226	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	fd	222	GLY	N-CA-C	5.34	122.84	112.64
1	ff	214	MET	N-CA-C	5.34	116.78	111.07
1	fq	11	VAL	CA-C-O	5.34	126.00	120.39
1	fr	66	MET	N-CA-C	5.34	117.79	111.33
1	fr	217	ALA	N-CA-C	5.34	118.64	110.20
1	fz	154	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	fJ	84	HIS	O-C-N	-5.34	116.56	121.42
1	fL	183	ASN	N-CA-C	5.34	116.78	111.07
1	fL	201	ILE	CA-C-O	5.34	126.50	120.95
1	g4	73	ILE	O-C-N	-5.34	116.69	121.87
1	1B	98	GLU	N-CA-C	5.34	117.66	110.29
1	g	29	GLU	N-CA-C	5.34	118.26	111.69
1	k	173	ARG	CA-C-N	5.34	127.44	120.28
1	k	173	ARG	C-N-CA	5.34	127.44	120.28
1	y	195	ASN	CA-C-N	5.34	126.52	119.84
1	y	195	ASN	C-N-CA	5.34	126.52	119.84
1	M	11	VAL	CA-CB-CG2	5.34	119.48	110.40
1	Q	173	ARG	NH1-CZ-NH2	5.34	126.24	119.30
1	T	70	LYS	CB-CG-CD	5.34	123.58	111.30
1	5	12	HIS	ND1-CG-CD2	5.34	111.44	106.10
1	7	16	SER	CA-C-N	5.34	125.41	119.32
1	7	16	SER	C-N-CA	5.34	125.41	119.32
1	9	153	ILE	CB-CA-C	-5.34	103.37	111.33
1	1H	217	ALA	CA-C-N	5.34	131.74	121.54
1	1H	217	ALA	C-N-CA	5.34	131.74	121.54
1	hv	51	ASP	CA-CB-CG	-5.34	107.26	112.60
1	hM	58	THR	CA-C-O	5.34	125.99	119.05
1	hS	178	SER	CA-C-N	5.34	127.97	120.28
1	hS	178	SER	C-N-CA	5.34	127.97	120.28
1	if	102	SER	O-C-N	-5.34	115.97	122.22
1	ih	142	VAL	CB-CA-C	-5.34	105.14	111.97
1	io	94	GLY	N-CA-C	5.34	123.12	114.90
1	iu	84	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	j3	130	TYR	N-CA-C	5.34	117.10	111.28
1	j9	78	ALA	N-CA-CB	-5.34	102.01	110.28
1	jr	82	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	ki	45	GLU	N-CA-CB	5.34	117.80	109.85
1	kk	64	ALA	CA-C-O	5.34	126.42	120.82
1	km	184	TRP	CA-C-N	5.34	127.38	120.44
1	km	184	TRP	C-N-CA	5.34	127.38	120.44
1	ko	47	ALA	O-C-N	-5.34	116.43	123.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ks	12	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	kt	143	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	22	74	ASN	CA-CB-CG	-5.34	107.26	112.60
1	kK	6	LEU	N-CA-C	5.34	118.01	111.82
1	kK	74	ASN	CB-CA-C	-5.34	101.93	110.79
1	kN	16	SER	CA-C-N	5.34	125.41	119.32
1	kN	16	SER	C-N-CA	5.34	125.41	119.32
1	24	183	ASN	CA-C-N	5.34	127.97	120.28
1	24	183	ASN	C-N-CA	5.34	127.97	120.28
1	kQ	208	ALA	CA-C-O	-5.34	113.29	119.59
1	kS	42	ALA	N-CA-C	5.34	118.01	111.82
1	kW	113	GLU	CA-C-N	5.34	127.43	120.28
1	kW	113	GLU	C-N-CA	5.34	127.43	120.28
1	li	155	GLN	N-CA-C	-5.34	101.77	110.20
1	ll	86	VAL	N-CA-C	5.34	117.32	109.63
1	lw	142	VAL	CA-C-N	5.34	127.97	120.28
1	lw	142	VAL	C-N-CA	5.34	127.97	120.28
1	2Y	199	LYS	CA-C-N	5.34	127.38	120.44
1	2Y	199	LYS	C-N-CA	5.34	127.38	120.44
1	32	158	LYS	CA-C-N	5.34	129.57	121.03
1	32	158	LYS	C-N-CA	5.34	129.57	121.03
1	3E	85	PRO	O-C-N	5.34	129.85	122.64
1	3X	55	MET	CA-C-O	-5.34	115.22	120.82
1	4c	160	PRO	N-CA-CB	-5.34	97.64	103.25
1	4g	43	LEU	O-C-N	-5.34	116.06	122.15
1	4G	134	ILE	CA-C-N	5.34	127.77	120.46
1	4G	134	ILE	C-N-CA	5.34	127.77	120.46
1	4G	163	ASP	CA-CB-CG	5.34	117.94	112.60
1	58	226	HIS	CA-CB-CG	-5.34	108.46	113.80
1	5E	69	LEU	CB-CA-C	5.34	119.92	110.85
1	5O	9	GLN	N-CA-C	5.34	117.97	110.23
1	5S	121	ASN	N-CA-CB	5.34	120.31	110.27
1	64	210	THR	CA-CB-OG1	5.34	117.61	109.60
1	6f	184	TRP	CB-CG-CD1	-5.34	118.89	126.90
1	6E	1	PRO	N-CA-C	-5.34	98.76	112.10
1	6M	118	MET	N-CA-C	5.34	117.85	111.71
1	7c	3	VAL	CA-C-O	5.34	125.66	120.27
1	7g	98	GLU	N-CA-C	5.34	117.32	109.42
1	7j	62	HIS	ND1-CG-CD2	5.34	111.44	106.10
1	7y	210	THR	CA-C-N	5.34	127.43	120.28
1	7y	210	THR	C-N-CA	5.34	127.43	120.28
1	7J	62	HIS	CE1-NE2-CD2	-5.34	103.66	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7M	211	LEU	N-CA-C	5.34	117.10	111.28
1	7Q	9	GLN	CG-CD-NE2	5.34	124.41	116.40
1	8d	201	ILE	CA-C-O	5.34	126.47	119.85
1	8h	124	ILE	CA-C-O	-5.34	115.30	119.20
1	8m	168	PHE	CA-CB-CG	5.34	119.14	113.80
1	8u	2	ILE	O-C-N	-5.34	116.15	122.77
1	8D	64	ALA	N-CA-CB	-5.34	102.01	110.28
1	8F	117	TRP	O-C-N	-5.34	116.46	122.12
1	8W	75	GLU	O-C-N	-5.34	116.46	122.12
1	8W	207	PRO	CA-C-O	-5.34	111.49	119.34
1	9a	147	PRO	CA-N-CD	-5.34	104.53	112.00
1	9g	47	ALA	CA-C-N	5.34	128.77	120.60
1	9g	47	ALA	C-N-CA	5.34	128.77	120.60
1	9h	206	GLY	CA-C-N	5.34	125.34	119.90
1	9h	206	GLY	C-N-CA	5.34	125.34	119.90
1	9j	35	GLU	CA-C-O	5.34	126.21	120.55
1	9j	135	ILE	CA-C-N	5.34	127.87	120.29
1	9j	135	ILE	C-N-CA	5.34	127.87	120.29
1	9m	191	VAL	CA-CB-CG1	5.34	119.47	110.40
1	9r	78	ALA	CA-C-N	5.34	127.38	120.44
1	9r	78	ALA	C-N-CA	5.34	127.38	120.44
1	a5	126	VAL	CA-C-N	5.34	125.87	120.00
1	a5	126	VAL	C-N-CA	5.34	125.87	120.00
1	ab	87	HIS	N-CA-C	5.34	118.18	110.28
1	aw	48	THR	OG1-CB-CG2	-5.34	98.62	109.30
1	aF	130	TYR	N-CA-C	5.34	117.10	111.28
1	aP	178	SER	O-C-N	-5.34	115.49	122.59
1	bs	205	LEU	N-CA-C	5.34	117.52	111.11
1	bv	230	VAL	CG1-CB-CG2	-5.34	99.06	110.80
1	bF	81	ASP	CA-CB-CG	5.34	117.94	112.60
1	bK	225	GLY	O-C-N	-5.34	116.42	122.56
1	cI	174	ALA	N-CA-CB	-5.34	101.70	110.40
1	1h	40	PHE	CA-C-N	5.34	127.97	120.28
1	1h	40	PHE	C-N-CA	5.34	127.97	120.28
1	dz	195	ASN	N-CA-C	5.34	116.42	109.64
1	1n	19	THR	O-C-N	-5.34	116.54	122.09
1	dX	133	TRP	CD2-CE2-CZ2	-5.34	117.06	122.40
1	1o	20	LEU	N-CA-C	5.34	116.78	111.07
1	el	161	PHE	CA-CB-CG	5.34	119.14	113.80
1	eq	112	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	er	45	GLU	CA-C-O	5.34	127.00	120.92
1	ew	205	LEU	CA-C-N	5.34	130.25	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ew	205	LEU	C-N-CA	5.34	130.25	121.87
1	ex	7	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	eI	62	HIS	N-CA-C	5.34	118.76	111.39
1	eL	76	GLU	CA-C-O	5.34	126.08	120.42
1	eN	18	ARG	CD-NE-CZ	5.34	131.87	124.40
1	f1	119	THR	CA-C-O	5.34	125.60	119.35
1	fm	100	ARG	O-C-N	-5.34	116.65	122.84
1	fy	58	THR	O-C-N	-5.34	115.70	122.27
1	fH	90	PRO	CB-CA-C	5.34	120.37	111.56
1	fJ	69	LEU	N-CA-C	5.34	117.52	111.11
1	fN	12	HIS	N-CA-CB	-5.34	101.73	110.43
1	fN	213	GLU	CA-C-N	5.34	127.70	120.44
1	fN	213	GLU	C-N-CA	5.34	127.70	120.44
1	g3	226	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	g5	96	MET	CA-C-N	5.34	129.32	120.94
1	g5	96	MET	C-N-CA	5.34	129.32	120.94
1	a	179	GLN	O-C-N	-5.34	114.43	122.28
1	h	42	ALA	CA-C-O	5.34	126.11	119.97
1	k	139	ASN	N-CA-C	5.34	117.85	111.71
1	q	64	ALA	CA-C-N	5.34	127.38	120.44
1	q	64	ALA	C-N-CA	5.34	127.38	120.44
1	C	183	ASN	OD1-CG-ND2	5.34	127.94	122.60
1	G	180	GLU	O-C-N	-5.34	116.46	122.12
1	H	51	ASP	O-C-N	-5.34	116.33	122.09
1	V	148	THR	CA-CB-OG1	5.34	117.61	109.60
1	ga	136	LEU	CA-C-N	5.34	125.76	119.94
1	ga	136	LEU	C-N-CA	5.34	125.76	119.94
1	gj	219	GLN	CA-C-O	5.34	126.77	120.58
1	gn	86	VAL	O-C-N	-5.34	115.90	122.57
1	gp	72	THR	N-CA-CB	5.34	117.75	110.01
1	gr	53	ASN	O-C-N	-5.34	116.46	122.12
1	gy	82	ARG	CA-C-N	5.34	129.75	120.68
1	gy	82	ARG	C-N-CA	5.34	129.75	120.68
1	gA	5	ASN	CA-CB-CG	-5.34	107.26	112.60
1	gD	7	GLN	CB-CA-C	5.34	118.65	111.82
1	gN	36	VAL	CA-C-N	5.34	132.00	122.13
1	gN	36	VAL	C-N-CA	5.34	132.00	122.13
1	1G	62	HIS	CB-CG-ND1	5.34	130.71	122.70
1	h7	221	VAL	CA-C-O	-5.34	115.11	119.97
1	1I	160	PRO	CB-CA-C	5.34	118.34	111.46
1	hg	63	GLN	N-CA-C	5.34	117.18	111.36
1	hF	79	GLU	CA-C-N	5.34	127.69	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	79	GLU	C-N-CA	5.34	127.69	120.38
1	hI	193	ASN	N-CA-CB	-5.34	102.28	110.44
1	hN	137	GLY	CA-C-N	5.34	127.43	120.28
1	hN	137	GLY	C-N-CA	5.34	127.43	120.28
1	hQ	47	ALA	N-CA-CB	5.34	117.94	109.51
1	hS	21	ASN	CA-C-N	5.34	127.38	120.44
1	hS	21	ASN	C-N-CA	5.34	127.38	120.44
1	hU	67	GLN	N-CA-C	5.34	117.10	111.28
1	hV	128	GLU	CB-CG-CD	-5.34	103.53	112.60
1	hZ	33	SER	CA-C-O	-5.34	114.68	120.87
1	ie	215	MET	CA-C-N	5.34	127.38	120.44
1	ie	215	MET	C-N-CA	5.34	127.38	120.44
1	1P	117	TRP	CB-CG-CD2	-5.34	119.33	126.80
1	is	211	LEU	O-C-N	-5.34	115.45	122.39
1	it	122	PRO	CA-C-N	5.34	125.34	119.90
1	it	122	PRO	C-N-CA	5.34	125.34	119.90
1	iv	166	ASP	CA-CB-CG	5.34	117.94	112.60
1	1Q	45	GLU	CB-CA-C	-5.34	102.56	110.67
1	iy	128	GLU	N-CA-C	5.34	117.85	111.71
1	iA	80	TRP	CD2-CE2-CZ2	5.34	127.74	122.40
1	iC	160	PRO	N-CA-CB	5.34	106.28	102.28
1	1R	143	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	iW	12	HIS	CB-CG-CD2	-5.34	124.26	131.20
1	iY	196	PRO	N-CA-C	-5.34	107.19	113.86
1	j7	35	GLU	CA-C-N	5.34	127.77	120.46
1	j7	35	GLU	C-N-CA	5.34	127.77	120.46
1	j9	122	PRO	CA-C-N	5.34	126.51	119.84
1	j9	122	PRO	C-N-CA	5.34	126.51	119.84
1	jc	63	GLN	N-CA-C	5.34	117.85	111.71
1	jg	129	ILE	CA-C-N	5.34	127.43	120.28
1	jg	129	ILE	C-N-CA	5.34	127.43	120.28
1	jm	99	PRO	N-CA-CB	-5.34	97.97	103.15
1	jq	130	TYR	CA-C-N	5.34	127.43	120.28
1	jq	130	TYR	C-N-CA	5.34	127.43	120.28
1	jx	139	ASN	N-CA-CB	5.34	118.44	110.22
1	jy	120	HIS	CB-CG-CD2	-5.34	124.26	131.20
1	jL	195	ASN	CA-CB-CG	-5.34	107.26	112.60
1	jY	92	GLU	O-C-N	-5.34	116.39	121.57
1	k9	38	PRO	O-C-N	-5.34	115.44	122.64
1	km	50	GLN	N-CA-C	5.34	117.79	111.33
1	kp	117	TRP	CA-C-O	5.34	126.21	120.55
1	kt	15	ILE	N-CA-C	5.34	117.14	109.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ky	186	THR	CA-CB-CG2	-5.34	101.43	110.50
1	l5	209	ALA	CA-C-N	5.34	131.73	121.54
1	l5	209	ALA	C-N-CA	5.34	131.73	121.54
1	lb	145	TYR	CB-CG-CD1	5.34	128.81	120.80
1	lq	71	GLU	CB-CA-C	-5.34	102.50	110.88
1	lq	191	VAL	N-CA-CB	5.34	116.79	110.55
1	lq	208	ALA	CA-C-O	5.34	125.67	119.32
1	lx	157	PRO	O-C-N	5.34	129.10	122.22
1	29	184	TRP	CE2-CD2-CE3	-5.34	113.46	118.80
1	lC	45	GLU	CA-C-N	5.34	132.35	121.78
1	lC	45	GLU	C-N-CA	5.34	132.35	121.78
1	2a	192	GLN	CB-CA-C	5.34	119.92	110.85
1	lP	1	PRO	CA-C-N	5.34	129.04	122.37
1	lP	1	PRO	C-N-CA	5.34	129.04	122.37
1	lP	24	VAL	CA-CB-CG2	5.34	119.47	110.40
1	2b	11	VAL	CB-CA-C	5.34	118.29	110.98
1	2b	105	ALA	N-CA-CB	-5.34	102.28	110.12
1	2c	230	VAL	CA-C-N	5.34	131.31	121.70
1	2c	230	VAL	C-N-CA	5.34	131.31	121.70
1	2f	156	GLY	O-C-N	-5.34	116.43	121.77
1	2s	165	VAL	N-CA-C	5.34	115.54	110.42
1	2u	12	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	2F	33	SER	CA-CB-OG	5.34	121.77	111.10
1	2I	191	VAL	N-CA-C	5.34	115.55	110.53
1	2M	154	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	2N	161	PHE	CB-CA-C	5.34	121.04	110.42
1	2P	59	VAL	CA-C-N	5.34	127.06	120.34
1	2P	59	VAL	C-N-CA	5.34	127.06	120.34
1	3c	67	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	3o	199	LYS	N-CA-CB	5.34	118.07	110.06
1	3v	115	ILE	N-CA-C	5.34	116.06	110.62
1	3A	12	HIS	CA-CB-CG	5.34	119.14	113.80
1	45	166	ASP	CA-C-N	5.34	127.43	120.28
1	45	166	ASP	C-N-CA	5.34	127.43	120.28
1	45	188	THR	CA-CB-OG1	5.34	117.60	109.60
1	4a	120	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	4w	12	HIS	CA-C-O	5.34	127.06	120.92
1	4C	114	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	4G	84	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	4G	189	LEU	CA-C-N	5.34	127.43	120.28
1	4G	189	LEU	C-N-CA	5.34	127.43	120.28
1	4I	40	PHE	N-CA-C	5.34	117.10	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4I	150	ILE	CA-C-N	5.34	127.38	120.44
1	4I	150	ILE	C-N-CA	5.34	127.38	120.44
1	4K	43	LEU	CA-C-O	5.34	126.21	120.55
1	57	130	TYR	N-CA-CB	-5.34	102.26	110.16
1	5a	227	LYS	CB-CA-C	-5.34	100.70	109.99
1	5k	161	PHE	O-C-N	-5.34	116.46	122.12
1	5n	36	VAL	CA-CB-CG2	5.34	119.47	110.40
1	5q	78	ALA	CB-CA-C	5.34	119.26	110.88
1	5u	24	VAL	O-C-N	5.34	127.14	121.91
1	5w	65	ALA	O-C-N	-5.34	116.07	122.15
1	5H	74	ASN	O-C-N	-5.34	116.46	122.12
1	5I	6	LEU	O-C-N	-5.34	117.14	123.22
1	5P	154	ARG	CA-C-O	5.34	128.14	120.51
1	61	161	PHE	CB-CA-C	5.34	119.35	110.81
1	61	201	ILE	CB-CA-C	-5.34	104.94	112.14
1	6d	68	MET	O-C-N	-5.34	116.46	122.12
1	6l	93	PRO	CA-C-O	-5.34	115.50	121.32
1	6n	120	HIS	CG-CD2-NE2	5.34	112.54	107.20
1	6x	16	SER	O-C-N	-5.34	115.45	121.43
1	6D	87	HIS	N-CA-CB	-5.34	101.71	110.41
1	6G	112	GLN	N-CA-C	5.34	117.79	111.33
1	6M	53	ASN	CA-C-N	5.34	127.38	120.44
1	6M	53	ASN	C-N-CA	5.34	127.38	120.44
1	6R	107	THR	N-CA-C	5.34	116.78	111.07
1	78	95	GLN	OE1-CD-NE2	-5.34	117.26	122.60
1	7j	74	ASN	CB-CG-ND2	-5.34	108.39	116.40
1	7n	141	ILE	CA-CB-CG2	-5.34	101.43	110.50
1	7p	87	HIS	O-C-N	-5.34	116.24	122.96
1	7q	37	ILE	O-C-N	-5.34	116.28	120.07
1	7t	164	TYR	N-CA-C	5.34	117.10	111.28
1	7E	33	SER	CA-C-O	-5.34	115.43	120.34
1	7I	55	MET	N-CA-C	5.34	117.51	111.11
1	7O	73	ILE	CA-C-N	5.34	127.38	120.44
1	7O	73	ILE	C-N-CA	5.34	127.38	120.44
1	7Y	52	LEU	CA-C-N	5.34	127.38	120.44
1	7Y	52	LEU	C-N-CA	5.34	127.38	120.44
1	8d	209	ALA	N-CA-C	5.34	122.17	110.80
1	8o	188	THR	N-CA-CB	5.34	119.51	110.49
1	8t	169	TYR	CA-C-N	5.34	127.43	120.28
1	8t	169	TYR	C-N-CA	5.34	127.43	120.28
1	8D	54	THR	N-CA-C	-5.34	105.54	111.36
1	8D	86	VAL	CB-CA-C	5.34	118.61	111.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8E	197	ASP	CA-C-N	5.34	127.70	120.44
1	8E	197	ASP	C-N-CA	5.34	127.70	120.44
1	8G	136	LEU	CA-C-N	5.34	125.86	119.94
1	8G	136	LEU	C-N-CA	5.34	125.86	119.94
1	8I	74	ASN	CA-C-N	5.34	127.87	120.29
1	8I	74	ASN	C-N-CA	5.34	127.87	120.29
1	8N	135	ILE	O-C-N	-5.34	116.69	121.87
1	8P	227	LYS	O-C-N	-5.34	115.34	122.49
1	8X	170	LYS	O-C-N	5.34	129.17	122.23
1	93	98	GLU	O-C-N	-5.34	115.76	121.42
1	94	87	HIS	N-CA-C	5.34	118.05	110.10
1	9b	201	ILE	N-CA-CB	5.34	118.58	110.58
1	9j	111	LEU	O-C-N	-5.34	116.46	122.12
1	9m	2	ILE	O-C-N	-5.34	117.54	123.20
1	9y	228	ALA	CA-C-N	5.34	127.69	120.65
1	9y	228	ALA	C-N-CA	5.34	127.69	120.65
1	9C	48	THR	O-C-N	-5.34	115.94	121.60
1	9J	126	VAL	N-CA-C	5.34	120.44	109.34
1	9M	101	GLY	O-C-N	-5.34	117.07	122.19
1	9M	141	ILE	N-CA-C	5.34	116.06	110.62
1	9O	139	ASN	CA-C-O	-5.34	114.07	120.10
1	Y	228	ALA	O-C-N	-5.34	116.96	123.10
1	9S	53	ASN	N-CA-C	5.34	117.85	111.71
1	9V	102	SER	CA-C-N	5.34	129.75	120.68
1	9V	102	SER	C-N-CA	5.34	129.75	120.68
1	9Z	4	GLN	O-C-N	-5.34	116.30	122.86
1	a1	97	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
1	a1	136	LEU	CA-C-N	5.34	127.06	120.34
1	a1	136	LEU	C-N-CA	5.34	127.06	120.34
1	a3	90	PRO	CA-C-N	5.34	130.49	122.75
1	a3	90	PRO	C-N-CA	5.34	130.49	122.75
1	a9	121	ASN	N-CA-CB	5.34	119.01	109.94
1	ae	153	ILE	N-CA-CB	5.34	116.93	110.95
1	ag	75	GLU	CA-C-O	-5.34	115.22	120.82
1	11	4	GLN	O-C-N	-5.34	115.49	122.59
1	ap	217	ALA	N-CA-C	5.34	117.75	110.55
1	aB	45	GLU	N-CA-C	5.34	118.05	110.10
1	aB	164	TYR	CB-CG-CD1	5.34	128.81	120.80
1	aI	169	TYR	O-C-N	-5.34	116.46	122.12
1	aP	194	ALA	N-CA-CB	-5.34	102.18	110.29
1	b2	87	HIS	ND1-CE1-NE2	5.34	113.74	108.40
1	16	12	HIS	CB-CG-ND1	5.34	130.71	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bl	63	GLN	O-C-N	-5.34	115.09	122.46
1	bE	189	LEU	N-CA-C	5.34	117.10	111.28
1	bF	42	ALA	CA-C-O	5.34	125.51	119.27
1	bK	107	THR	O-C-N	-5.34	115.18	122.33
1	1a	26	VAL	CA-CB-CG2	-5.34	101.33	110.40
1	bO	118	MET	CA-C-N	5.34	130.75	122.26
1	bO	118	MET	C-N-CA	5.34	130.75	122.26
1	bR	100	ARG	NE-CZ-NH1	-5.34	116.16	121.50
1	c2	4	GLN	OE1-CD-NE2	5.34	127.94	122.60
1	c3	124	ILE	CB-CA-C	-5.34	104.76	110.95
1	c3	201	ILE	CB-CA-C	-5.34	105.14	111.97
1	1c	173	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	cf	11	VAL	N-CA-CB	-5.34	102.11	111.39
1	cl	193	ASN	CA-C-N	5.34	130.58	121.29
1	cl	193	ASN	C-N-CA	5.34	130.58	121.29
1	co	227	LYS	CB-CG-CD	5.34	123.57	111.30
1	cp	132	ARG	N-CA-C	5.34	117.10	111.28
1	cO	29	GLU	N-CA-CB	-5.34	102.28	110.12
1	cO	168	PHE	N-CA-C	5.34	116.79	110.97
1	cZ	133	TRP	O-C-N	-5.34	115.71	122.27
1	d9	114	GLN	CA-C-N	5.34	128.00	120.42
1	d9	114	GLN	C-N-CA	5.34	128.00	120.42
1	da	167	ARG	O-C-N	-5.34	115.71	122.27
1	di	167	ARG	CB-CA-C	-5.34	102.50	110.88
1	do	126	VAL	CA-C-N	5.34	125.87	120.00
1	do	126	VAL	C-N-CA	5.34	125.87	120.00
1	dv	158	LYS	N-CA-C	-5.34	105.60	113.61
1	dI	120	HIS	CA-CB-CG	-5.34	108.46	113.80
1	dO	113	GLU	O-C-N	5.34	127.64	122.09
1	dO	190	LEU	CA-C-N	5.34	127.39	120.56
1	dO	190	LEU	C-N-CA	5.34	127.39	120.56
1	dR	66	MET	O-C-N	-5.34	116.46	122.12
1	dY	22	ALA	O-C-N	-5.34	115.70	122.27
1	e5	129	ILE	N-CA-C	-5.34	105.64	110.82
1	e6	67	GLN	N-CA-C	5.34	117.18	111.36
1	eh	152	ASP	CA-C-O	-5.34	113.83	119.97
1	el	133	TRP	N-CA-C	5.34	116.90	111.14
1	em	113	GLU	N-CA-CB	-5.34	102.28	110.12
1	eo	227	LYS	N-CA-CB	-5.34	103.19	110.56
1	ev	79	GLU	N-CA-C	5.34	116.90	111.14
1	ey	42	ALA	CA-C-O	5.34	126.42	120.82
1	eA	6	LEU	N-CA-C	5.34	117.18	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eC	81	ASP	CA-C-O	5.34	126.20	120.70
1	eL	114	GLN	N-CA-C	5.34	116.78	111.07
1	1u	140	LYS	N-CA-C	-5.34	105.54	111.36
1	f7	56	LEU	N-CA-C	5.34	117.10	111.28
1	fa	197	ASP	CA-C-N	5.34	127.43	120.28
1	fa	197	ASP	C-N-CA	5.34	127.43	120.28
1	fd	108	THR	CA-C-N	5.34	131.71	122.64
1	fd	108	THR	C-N-CA	5.34	131.71	122.64
1	fj	198	CYS	CA-C-N	5.34	127.43	120.28
1	fj	198	CYS	C-N-CA	5.34	127.43	120.28
1	1w	137	GLY	CA-C-O	5.34	126.32	120.66
1	fr	26	VAL	N-CA-CB	5.34	117.80	110.54
1	1x	120	HIS	CE1-NE2-CD2	-5.34	103.66	109.00
1	fF	40	PHE	CA-C-O	-5.34	114.76	120.42
1	1A	195	ASN	CA-CB-CG	5.34	117.94	112.60
1	a	205	LEU	CA-C-O	-5.34	115.14	120.96
1	x	81	ASP	CA-C-N	5.34	129.62	120.71
1	x	81	ASP	C-N-CA	5.34	129.62	120.71
1	T	138	LEU	N-CA-CB	5.34	117.97	110.12
1	V	27	VAL	N-CA-C	5.34	115.54	110.42
1	6	218	CYS	O-C-N	-5.34	116.95	123.30
1	gf	86	VAL	CA-C-N	5.33	128.28	120.71
1	gf	86	VAL	C-N-CA	5.33	128.28	120.71
1	hj	226	HIS	CA-C-N	5.33	131.33	121.94
1	hj	226	HIS	C-N-CA	5.33	131.33	121.94
1	hl	84	HIS	CA-C-O	-5.33	114.61	119.62
1	1J	49	PRO	O-C-N	-5.33	115.44	122.64
1	iI	94	GLY	CA-C-N	5.33	129.05	121.42
1	iI	94	GLY	C-N-CA	5.33	129.05	121.42
1	iO	58	THR	CA-CB-OG1	5.33	117.60	109.60
1	j8	224	PRO	N-CD-CG	5.33	111.20	103.20
1	je	62	HIS	CA-CB-CG	-5.33	108.47	113.80
1	jN	226	HIS	N-CA-CB	5.33	119.32	110.52
1	jZ	126	VAL	N-CA-C	5.33	119.51	112.04
1	20	118	MET	CA-C-O	5.33	126.20	120.55
1	kg	189	LEU	N-CA-C	5.33	117.10	111.28
1	kj	226	HIS	CB-CG-ND1	5.33	130.70	122.70
1	22	81	ASP	O-C-N	-5.33	115.71	122.27
1	kw	189	LEU	CA-C-N	5.33	127.43	120.28
1	kw	189	LEU	C-N-CA	5.33	127.43	120.28
1	kM	47	ALA	O-C-N	-5.33	116.72	123.01
1	l6	33	SER	N-CA-C	5.33	116.55	109.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l8	4	GLN	OE1-CD-NE2	5.33	127.94	122.60
1	li	100	ARG	CA-C-O	5.33	128.08	121.94
1	li	171	THR	CA-CB-CG2	5.33	119.57	110.50
1	2a	167	ARG	NE-CZ-NH1	-5.33	116.17	121.50
1	2c	76	GLU	O-C-N	-5.33	115.18	122.33
1	2U	82	ARG	O-C-N	-5.33	114.49	122.39
1	3a	124	ILE	O-C-N	5.33	124.73	121.37
1	3e	153	ILE	CA-C-N	5.33	132.31	122.92
1	3e	153	ILE	C-N-CA	5.33	132.31	122.92
1	3j	210	THR	CA-CB-OG1	5.33	117.60	109.60
1	45	96	MET	CG-SD-CE	-5.33	89.16	100.90
1	4f	7	GLN	CB-CA-C	5.33	119.01	111.86
1	4i	67	GLN	N-CA-C	5.33	117.17	111.36
1	4C	12	HIS	CB-CG-ND1	5.33	130.70	122.70
1	4L	7	GLN	N-CA-C	5.33	117.38	107.99
1	4M	208	ALA	CA-C-N	5.33	129.89	120.87
1	4M	208	ALA	C-N-CA	5.33	129.89	120.87
1	4P	215	MET	N-CA-CB	5.33	118.55	110.28
1	4R	105	ALA	CB-CA-C	-5.33	100.41	110.01
1	57	15	ILE	CA-CB-CG2	5.33	119.57	110.50
1	58	37	ILE	N-CA-C	5.33	119.34	112.67
1	5k	5	ASN	CB-CA-C	5.33	121.63	111.17
1	5J	206	GLY	O-C-N	5.33	127.11	121.77
1	6s	229	ARG	CD-NE-CZ	5.33	131.87	124.40
1	6M	98	GLU	O-C-N	5.33	127.69	121.39
1	74	134	ILE	N-CA-C	5.33	116.06	110.62
1	7j	220	GLY	O-C-N	-5.33	115.76	122.70
1	7L	84	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	7X	181	VAL	N-CA-CB	5.33	116.79	110.55
1	80	40	PHE	CA-C-N	5.33	127.43	120.28
1	80	40	PHE	C-N-CA	5.33	127.43	120.28
1	87	210	THR	CB-CA-C	-5.33	102.64	110.06
1	89	84	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	8j	6	LEU	CA-C-N	5.33	130.42	122.74
1	8j	6	LEU	C-N-CA	5.33	130.42	122.74
1	8w	10	MET	N-CA-C	5.33	117.76	110.24
1	8H	61	GLY	N-CA-C	5.33	121.26	112.30
1	8P	22	ALA	N-CA-C	5.33	116.78	111.07
1	8U	162	ARG	CA-C-N	5.33	127.43	120.28
1	8U	162	ARG	C-N-CA	5.33	127.43	120.28
1	9c	28	GLU	N-CA-CB	5.33	117.93	109.82
1	9k	97	ARG	NE-CZ-NH2	-5.33	114.40	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9w	18	ARG	NH1-CZ-NH2	5.33	126.23	119.30
1	9D	49	PRO	O-C-N	-5.33	116.10	122.24
1	9V	199	LYS	CA-C-O	-5.33	115.22	120.82
1	aC	70	LYS	CA-C-O	5.33	125.92	119.31
1	aK	141	ILE	CB-CG1-CD1	5.33	125.00	113.80
1	aL	191	VAL	CA-C-N	5.33	127.74	120.54
1	aL	191	VAL	C-N-CA	5.33	127.74	120.54
1	aR	25	LYS	CA-C-O	-5.33	115.22	120.82
1	aU	16	SER	CA-C-N	5.33	125.15	119.28
1	aU	16	SER	C-N-CA	5.33	125.15	119.28
1	15	130	TYR	CB-CA-C	5.33	119.26	110.88
1	bt	122	PRO	N-CA-C	5.33	117.21	110.70
1	by	174	ALA	CB-CA-C	-5.33	99.16	110.31
1	bB	103	ASP	CA-C-N	5.33	128.05	120.53
1	bB	103	ASP	C-N-CA	5.33	128.05	120.53
1	bB	162	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	bD	133	TRP	CE2-CD2-CE3	5.33	124.14	118.80
1	bE	179	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	bG	205	LEU	O-C-N	-5.33	116.25	122.81
1	bK	155	GLN	N-CA-C	5.33	117.76	110.24
1	bX	132	ARG	O-C-N	-5.33	116.54	122.09
1	cb	167	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	cb	181	VAL	N-CA-C	-5.33	105.33	110.72
1	cA	11	VAL	CA-C-O	5.33	126.74	120.71
1	cG	95	GLN	CA-C-O	5.33	127.02	121.15
1	cN	127	GLY	O-C-N	-5.33	116.20	122.34
1	cV	165	VAL	N-CA-C	5.33	116.06	110.62
1	d0	204	ALA	CA-C-O	-5.33	115.19	120.90
1	dr	165	VAL	CA-C-N	5.33	127.38	120.44
1	dr	165	VAL	C-N-CA	5.33	127.38	120.44
1	dz	183	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	e0	97	ARG	CD-NE-CZ	-5.33	116.93	124.40
1	el	132	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	eo	18	ARG	N-CA-C	5.33	117.09	111.28
1	eq	223	GLY	CA-C-N	5.33	124.95	119.56
1	eq	223	GLY	C-N-CA	5.33	124.95	119.56
1	eu	139	ASN	CA-C-N	5.33	127.38	120.44
1	eu	139	ASN	C-N-CA	5.33	127.38	120.44
1	eI	2	ILE	CA-CB-CG2	-5.33	101.43	110.50
1	fi	173	ARG	CB-CA-C	-5.33	102.28	110.81
1	fq	171	THR	CA-C-N	5.33	127.87	120.29
1	fq	171	THR	C-N-CA	5.33	127.87	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fs	229	ARG	N-CA-C	5.33	117.97	110.23
1	fE	87	HIS	N-CA-C	5.33	117.97	110.23
1	g9	165	VAL	CB-CA-C	-5.33	103.89	112.16
1	1C	28	GLU	O-C-N	-5.33	115.71	122.27
1	gr	134	ILE	CA-C-N	5.33	127.77	120.46
1	gr	134	ILE	C-N-CA	5.33	127.77	120.46
1	gv	169	TYR	CA-C-O	5.33	126.07	120.42
1	hk	166	ASP	O-C-N	-5.33	116.47	122.12
1	ho	178	SER	CA-C-O	-5.33	115.90	121.55
1	ht	228	ALA	CA-C-N	5.33	130.94	122.94
1	ht	228	ALA	C-N-CA	5.33	130.94	122.94
1	hV	1	PRO	CB-CA-C	5.33	120.23	110.10
1	hZ	147	PRO	N-CA-CB	-5.33	97.65	103.25
1	i6	134	ILE	O-C-N	-5.33	116.70	121.87
1	i6	144	MET	CA-C-N	5.33	128.17	120.38
1	i6	144	MET	C-N-CA	5.33	128.17	120.38
1	ie	132	ARG	N-CA-CB	5.33	118.06	110.06
1	iq	143	ARG	N-CA-CB	-5.33	102.27	110.16
1	iv	173	ARG	N-CA-C	5.33	115.89	108.00
1	1Q	125	PRO	CA-C-N	5.33	127.28	120.56
1	1Q	125	PRO	C-N-CA	5.33	127.28	120.56
1	iz	222	GLY	CA-C-N	5.33	130.24	121.87
1	iz	222	GLY	C-N-CA	5.33	130.24	121.87
1	iC	13	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	iD	83	LEU	N-CA-C	5.33	117.09	111.28
1	iE	215	MET	N-CA-C	5.33	117.17	111.36
1	iF	18	ARG	CA-C-O	5.33	126.08	119.79
1	iM	132	ARG	N-CA-C	5.33	117.09	111.28
1	iN	196	PRO	CA-C-N	5.33	127.43	120.28
1	iN	196	PRO	C-N-CA	5.33	127.43	120.28
1	iT	159	GLU	N-CA-C	5.33	117.25	109.84
1	iX	135	ILE	N-CA-C	5.33	116.06	110.62
1	jo	220	GLY	CA-C-N	-5.33	116.22	123.10
1	jo	220	GLY	C-N-CA	-5.33	116.22	123.10
1	jH	42	ALA	N-CA-C	5.33	117.84	111.71
1	jK	106	GLY	CA-C-O	5.33	126.38	119.44
1	jL	123	PRO	N-CA-C	5.33	119.59	111.11
1	1Y	123	PRO	CA-C-O	-5.33	115.51	121.32
1	jS	158	LYS	O-C-N	-5.33	117.03	123.27
1	jU	38	PRO	CA-C-N	5.33	127.37	120.44
1	jU	38	PRO	C-N-CA	5.33	127.37	120.44
1	jW	154	ARG	NH1-CZ-NH2	-5.33	112.37	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jW	188	THR	N-CA-CB	5.33	118.03	110.13
1	jZ	69	LEU	CB-CA-C	5.33	119.25	110.88
1	k7	231	LEU	CB-CA-C	5.33	120.23	110.10
1	kd	185	MET	CA-C-N	5.33	127.69	120.65
1	kd	185	MET	C-N-CA	5.33	127.69	120.65
1	kl	18	ARG	N-CA-C	-5.33	106.28	112.89
1	kn	150	ILE	CA-C-O	5.33	126.50	120.95
1	kt	130	TYR	CA-C-N	5.33	127.69	120.38
1	kt	130	TYR	C-N-CA	5.33	127.69	120.38
1	kF	142	VAL	N-CA-C	5.33	116.06	110.62
1	kM	125	PRO	N-CA-CB	-5.33	99.27	102.79
1	kM	168	PHE	CA-CB-CG	5.33	119.13	113.80
1	kN	135	ILE	O-C-N	-5.33	116.70	121.87
1	kO	170	LYS	CB-CA-C	5.33	119.25	110.88
1	kR	87	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	kV	76	GLU	N-CA-C	5.33	118.01	111.82
1	kX	150	ILE	CB-CA-C	5.33	120.04	111.29
1	25	117	TRP	CA-C-O	5.33	126.20	120.55
1	l2	50	GLN	N-CA-C	5.33	117.09	111.28
1	lg	109	SER	N-CA-C	5.33	118.28	109.85
1	ll	98	GLU	CA-C-N	5.33	125.09	119.76
1	ll	98	GLU	C-N-CA	5.33	125.09	119.76
1	lm	155	GLN	CG-CD-NE2	5.33	124.40	116.40
1	lq	229	ARG	O-C-N	-5.33	115.05	122.41
1	lr	100	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	lt	222	GLY	O-C-N	-5.33	117.53	122.86
1	lD	30	LYS	CB-CA-C	5.33	118.92	109.75
1	lD	78	ALA	N-CA-C	5.33	117.17	111.36
1	2a	203	LYS	CA-C-N	5.33	128.42	120.31
1	2a	203	LYS	C-N-CA	5.33	128.42	120.31
1	2d	101	GLY	CA-C-O	5.33	126.24	120.75
1	2h	200	THR	O-C-N	-5.33	116.58	122.07
1	2j	171	THR	CA-CB-CG2	5.33	119.57	110.50
1	2E	91	ILE	O-C-N	-5.33	116.80	122.61
1	2S	195	ASN	CA-C-N	5.33	124.84	119.19
1	2S	195	ASN	C-N-CA	5.33	124.84	119.19
1	2T	130	TYR	CA-C-N	5.33	127.69	120.38
1	2T	130	TYR	C-N-CA	5.33	127.69	120.38
1	2U	91	ILE	N-CA-C	5.33	114.21	107.70
1	2W	190	LEU	O-C-N	-5.33	116.58	122.07
1	3l	70	LYS	CA-C-N	-5.33	113.51	120.44
1	3l	70	LYS	C-N-CA	-5.33	113.51	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3l	79	GLU	CA-C-N	5.33	129.70	120.58
1	3l	79	GLU	C-N-CA	5.33	129.70	120.58
1	3q	121	ASN	CA-CB-CG	-5.33	107.27	112.60
1	3q	200	THR	N-CA-C	-5.33	105.13	111.69
1	3t	1	PRO	CA-N-CD	-5.33	104.53	112.00
1	3B	163	ASP	CA-C-O	5.33	126.19	120.70
1	3U	224	PRO	N-CA-CB	5.33	108.85	103.25
1	3W	12	HIS	CA-CB-CG	5.33	119.13	113.80
1	4d	75	GLU	N-CA-C	5.33	117.09	111.28
1	4i	178	SER	N-CA-C	5.33	117.76	110.24
1	4l	92	GLU	CA-C-N	5.33	126.51	119.84
1	4l	92	GLU	C-N-CA	5.33	126.51	119.84
1	4m	50	GLN	N-CA-C	5.33	116.78	111.07
1	4t	213	GLU	N-CA-C	5.33	117.09	111.28
1	4D	15	ILE	CA-CB-CG1	5.33	119.47	110.40
1	4L	13	GLN	CA-C-O	-5.33	114.57	120.33
1	52	134	ILE	N-CA-C	5.33	115.96	110.36
1	55	199	LYS	CB-CA-C	-5.33	101.78	110.85
1	56	137	GLY	CA-C-N	5.33	127.43	120.28
1	56	137	GLY	C-N-CA	5.33	127.43	120.28
1	57	173	ARG	CG-CD-NE	-5.33	100.27	112.00
1	5b	203	LYS	N-CA-C	5.33	117.17	111.36
1	5C	162	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	5C	224	PRO	CA-C-N	5.33	126.25	120.44
1	5C	224	PRO	C-N-CA	5.33	126.25	120.44
1	5F	213	GLU	N-CA-C	-5.33	105.13	111.69
1	5L	87	HIS	CA-CB-CG	5.33	119.13	113.80
1	5N	88	ALA	N-CA-C	5.33	122.16	110.80
1	5N	225	GLY	CA-C-N	5.33	131.56	121.69
1	5N	225	GLY	C-N-CA	5.33	131.56	121.69
1	5W	2	ILE	O-C-N	-5.33	117.28	122.93
1	6e	140	LYS	CA-C-O	-5.33	114.77	120.42
1	6k	57	ASN	CB-CG-ND2	-5.33	108.40	116.40
1	6A	183	ASN	N-CA-C	5.33	118.01	111.82
1	6B	140	LYS	CA-C-N	5.33	127.77	120.46
1	6B	140	LYS	C-N-CA	5.33	127.77	120.46
1	7z	223	GLY	CA-C-O	-5.33	116.02	121.62
1	7A	132	ARG	CG-CD-NE	-5.33	100.27	112.00
1	7D	138	LEU	N-CA-C	5.33	117.51	111.11
1	7G	37	ILE	CA-C-N	5.33	126.51	119.84
1	7G	37	ILE	C-N-CA	5.33	126.51	119.84
1	7I	125	PRO	N-CD-CG	5.33	111.20	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	183	ASN	CA-CB-CG	5.33	117.93	112.60
1	7M	193	ASN	CA-CB-CG	-5.33	107.27	112.60
1	7O	174	ALA	N-CA-C	5.33	117.09	111.28
1	7R	26	VAL	O-C-N	-5.33	116.61	121.94
1	85	86	VAL	O-C-N	-5.33	116.67	122.64
1	8n	213	GLU	CB-CG-CD	5.33	121.67	112.60
1	8p	44	SER	CA-C-O	5.33	124.68	119.08
1	8J	24	VAL	CA-CB-CG2	-5.33	101.33	110.40
1	8M	123	PRO	O-C-N	-5.33	116.58	123.03
1	8P	100	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	8T	51	ASP	CA-C-O	-5.33	114.90	120.55
1	8W	197	ASP	CA-C-N	5.33	127.43	120.28
1	8W	197	ASP	C-N-CA	5.33	127.43	120.28
1	96	110	THR	CA-CB-OG1	5.33	117.60	109.60
1	9n	58	THR	N-CA-C	5.33	117.51	111.11
1	9p	59	VAL	N-CA-C	5.33	116.13	108.93
1	9r	135	ILE	N-CA-C	5.33	116.06	110.62
1	9A	143	ARG	NH1-CZ-NH2	-5.33	112.37	119.30
1	9C	154	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	9L	216	THR	N-CA-CB	5.33	117.96	110.12
1	9S	57	ASN	CA-C-O	5.33	126.20	120.55
1	Z	91	ILE	CA-CB-CG2	-5.33	101.43	110.50
1	a3	97	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	a4	5	ASN	CA-CB-CG	5.33	117.93	112.60
1	aj	41	SER	N-CA-C	5.33	117.09	111.28
1	11	169	TYR	CA-C-N	5.33	127.38	120.44
1	11	169	TYR	C-N-CA	5.33	127.38	120.44
1	aq	142	VAL	N-CA-C	5.33	115.96	110.36
1	as	110	THR	CA-CB-CG2	-5.33	101.43	110.50
1	aB	134	ILE	N-CA-C	5.33	115.96	110.36
1	aE	120	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	aL	62	HIS	CB-CG-ND1	-5.33	114.70	122.70
1	14	69	LEU	O-C-N	-5.33	116.47	122.12
1	14	226	HIS	CB-CG-CD2	-5.33	124.27	131.20
1	aU	164	TYR	CA-C-O	-5.33	115.19	120.90
1	b8	114	GLN	CA-C-O	5.33	126.19	120.70
1	bf	73	ILE	O-C-N	5.33	127.14	121.91
1	bv	47	ALA	N-CA-C	5.33	117.96	110.23
1	bI	84	HIS	CA-CB-CG	-5.33	108.47	113.80
1	bI	138	LEU	N-CA-CB	5.33	118.06	110.06
1	bL	173	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	1a	104	ILE	CA-C-N	5.33	128.42	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1a	104	ILE	C-N-CA	5.33	128.42	120.31
1	bM	54	THR	O-C-N	-5.33	116.54	122.09
1	cf	54	THR	N-CA-CB	5.33	117.96	110.12
1	1d	226	HIS	N-CA-C	5.33	118.02	110.50
1	cg	120	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	ci	119	THR	CA-CB-OG1	5.33	117.60	109.60
1	cp	67	GLN	N-CA-C	5.33	116.90	111.14
1	cr	224	PRO	CB-CA-C	5.33	120.36	111.56
1	ct	49	PRO	N-CA-C	5.33	121.70	113.75
1	ct	173	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	1f	212	GLU	CA-C-N	5.33	127.43	120.28
1	1f	212	GLU	C-N-CA	5.33	127.43	120.28
1	cD	170	LYS	N-CA-CB	5.33	117.96	110.12
1	cE	215	MET	CA-C-N	5.33	127.86	120.29
1	cE	215	MET	C-N-CA	5.33	127.86	120.29
1	cI	105	ALA	N-CA-C	5.33	119.41	113.01
1	cM	151	LEU	O-C-N	-5.33	115.28	122.43
1	cR	51	ASP	CA-CB-CG	-5.33	107.27	112.60
1	cS	173	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	cV	14	ALA	CA-C-O	-5.33	116.00	121.87
1	cX	173	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	d2	21	ASN	O-C-N	5.33	127.56	122.07
1	1i	109	SER	CA-C-N	5.33	129.31	120.94
1	1i	109	SER	C-N-CA	5.33	129.31	120.94
1	d7	82	ARG	CA-C-O	5.33	126.20	120.55
1	dd	74	ASN	CA-C-O	5.33	126.10	119.97
1	dm	120	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	ds	120	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	du	203	LYS	N-CA-C	5.33	117.09	111.28
1	dG	55	MET	N-CA-C	5.33	117.09	111.28
1	dN	51	ASP	CA-C-N	5.33	127.86	120.29
1	dN	51	ASP	C-N-CA	5.33	127.86	120.29
1	1o	84	HIS	CA-C-O	5.33	123.75	119.59
1	e6	35	GLU	CA-C-O	5.33	125.94	119.49
1	eb	122	PRO	CA-C-N	5.33	125.25	119.76
1	eb	122	PRO	C-N-CA	5.33	125.25	119.76
1	1p	135	ILE	CB-CA-C	-5.33	104.94	112.14
1	ee	12	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	eh	40	PHE	CB-CG-CD2	-5.33	111.63	120.70
1	eu	201	ILE	N-CA-C	5.33	116.06	110.62
1	eC	143	ARG	CA-C-O	5.33	126.61	120.90
1	eE	114	GLN	O-C-N	-5.33	116.54	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eE	181	VAL	CA-C-O	5.33	126.50	120.95
1	eL	100	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	fd	130	TYR	CB-CG-CD2	-5.33	112.80	120.80
1	fl	205	LEU	CB-CA-C	-5.33	100.76	110.63
1	fo	20	LEU	N-CA-C	5.33	117.17	111.36
1	ft	153	ILE	CB-CA-C	5.33	120.02	111.32
1	fv	68	MET	N-CA-C	5.33	117.09	111.28
1	fD	197	ASP	CA-CB-CG	5.33	117.93	112.60
1	1y	219	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	fH	152	ASP	CA-CB-CG	5.33	117.93	112.60
1	fI	55	MET	CA-C-N	5.33	127.43	120.28
1	fI	55	MET	C-N-CA	5.33	127.43	120.28
1	d	146	SER	O-C-N	5.33	126.17	121.37
1	f	174	ALA	N-CA-CB	-5.33	102.27	110.16
1	g	44	SER	O-C-N	-5.33	116.36	121.85
1	1	26	VAL	CB-CA-C	-5.33	105.14	111.97
1	A	112	GLN	CB-CG-CD	5.33	121.67	112.60
1	B	126	VAL	N-CA-C	5.33	116.70	110.62
1	W	210	THR	N-CA-C	5.33	118.02	110.50
1	X	23	TRP	CA-CB-CG	5.33	123.73	113.60
1	gb	25	LYS	CG-CD-CE	5.33	123.56	111.30
1	gl	161	PHE	CA-C-O	5.33	128.13	120.51
1	gm	3	VAL	CA-C-N	5.33	129.71	122.19
1	gm	3	VAL	C-N-CA	5.33	129.71	122.19
1	gA	22	ALA	CA-C-N	5.33	127.86	120.29
1	gA	22	ALA	C-N-CA	5.33	127.86	120.29
1	gF	190	LEU	CA-C-N	5.33	127.76	120.46
1	gF	190	LEU	C-N-CA	5.33	127.76	120.46
1	gR	82	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	gS	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	h1	103	ASP	CA-C-N	5.33	129.07	121.02
1	h1	103	ASP	C-N-CA	5.33	129.07	121.02
1	h8	213	GLU	N-CA-C	5.33	117.09	111.28
1	hu	156	GLY	CA-C-N	5.33	124.84	119.19
1	hu	156	GLY	C-N-CA	5.33	124.84	119.19
1	hy	11	VAL	N-CA-CB	-5.33	104.05	111.41
1	1K	85	PRO	N-CA-CB	-5.33	98.56	103.25
1	hH	159	GLU	CB-CA-C	-5.33	102.98	110.13
1	hK	125	PRO	CA-C-N	5.33	129.36	120.62
1	hK	125	PRO	C-N-CA	5.33	129.36	120.62
1	hP	184	TRP	CA-C-N	5.33	127.42	120.28
1	hP	184	TRP	C-N-CA	5.33	127.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hS	129	ILE	CA-C-N	5.33	127.42	120.28
1	hS	129	ILE	C-N-CA	5.33	127.42	120.28
1	hT	89	GLY	CA-C-N	5.33	126.50	119.84
1	hT	89	GLY	C-N-CA	5.33	126.50	119.84
1	hX	48	THR	N-CA-CB	5.33	117.45	109.88
1	hY	198	CYS	O-C-N	-5.33	115.50	122.59
1	if	108	THR	CA-CB-OG1	5.33	117.60	109.60
1	ih	17	PRO	CA-C-N	5.33	127.86	120.29
1	ih	17	PRO	C-N-CA	5.33	127.86	120.29
1	im	100	ARG	NH1-CZ-NH2	5.33	126.23	119.30
1	io	169	TYR	N-CA-C	5.33	117.17	111.36
1	iu	80	TRP	N-CA-CB	-5.33	102.28	110.12
1	iw	160	PRO	CA-C-N	5.33	127.42	120.28
1	iw	160	PRO	C-N-CA	5.33	127.42	120.28
1	iR	219	GLN	CA-C-N	5.33	129.17	121.44
1	iR	219	GLN	C-N-CA	5.33	129.17	121.44
1	j6	22	ALA	N-CA-C	5.33	117.84	111.71
1	jb	32	PHE	N-CA-C	-5.33	101.09	109.25
1	jg	24	VAL	N-CA-CB	5.33	117.79	110.54
1	jg	59	VAL	CA-CB-CG1	5.33	119.47	110.40
1	jm	162	ARG	CA-C-O	5.33	126.20	120.55
1	js	47	ALA	N-CA-C	5.33	122.16	110.80
1	jz	165	VAL	CA-C-N	5.33	127.43	120.28
1	jz	165	VAL	C-N-CA	5.33	127.43	120.28
1	jA	22	ALA	N-CA-C	5.33	116.78	111.07
1	jF	133	TRP	N-CA-C	5.33	117.09	111.28
1	jM	209	ALA	N-CA-C	5.33	117.57	110.53
1	jP	48	THR	CA-CB-OG1	5.33	117.60	109.60
1	k9	217	ALA	CA-C-O	-5.33	115.19	121.16
1	kb	145	TYR	CA-CB-CG	-5.33	104.30	113.90
1	kb	195	ASN	O-C-N	-5.33	115.67	121.53
1	kt	32	PHE	O-C-N	-5.33	116.08	123.01
1	ky	70	LYS	CA-C-O	-5.33	114.90	120.55
1	kM	167	ARG	CA-C-N	5.33	127.37	120.44
1	kM	167	ARG	C-N-CA	5.33	127.37	120.44
1	kU	52	LEU	N-CA-CB	5.33	118.05	110.16
1	kV	99	PRO	N-CD-CG	5.33	111.20	103.20
1	kV	213	GLU	CA-C-O	5.33	126.20	120.55
1	l6	21	ASN	CA-C-N	5.33	127.68	120.38
1	l6	21	ASN	C-N-CA	5.33	127.68	120.38
1	la	162	ARG	NE-CZ-NH1	-5.33	116.17	121.50
1	ld	84	HIS	O-C-N	-5.33	116.18	121.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lo	39	MET	O-C-N	-5.33	116.33	122.09
1	lG	93	PRO	N-CD-CG	5.33	111.20	103.20
1	lK	81	ASP	CA-CB-CG	5.33	117.93	112.60
1	2f	165	VAL	CA-C-N	5.33	127.42	120.28
1	2f	165	VAL	C-N-CA	5.33	127.42	120.28
1	2h	120	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	2l	85	PRO	CA-C-N	5.33	130.12	123.14
1	2l	85	PRO	C-N-CA	5.33	130.12	123.14
1	2n	78	ALA	N-CA-C	5.33	117.17	111.36
1	2n	226	HIS	N-CA-C	5.33	117.60	110.35
1	2F	189	LEU	N-CA-C	-5.33	106.45	113.12
1	2L	23	TRP	CE3-CZ3-CH2	5.33	128.03	121.10
1	2Q	224	PRO	CA-N-CD	-5.33	104.53	112.00
1	2Y	167	ARG	O-C-N	-5.33	116.47	122.12
1	31	179	GLN	O-C-N	-5.33	116.47	122.12
1	35	98	GLU	O-C-N	-5.33	116.56	121.30
1	3e	201	ILE	CA-C-N	5.33	127.69	120.38
1	3e	201	ILE	C-N-CA	5.33	127.69	120.38
1	3s	75	GLU	CA-C-O	5.33	126.42	120.82
1	3B	12	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	3D	133	TRP	N-CA-CB	5.33	118.05	110.16
1	3I	213	GLU	N-CA-CB	5.33	117.80	110.07
1	3V	164	TYR	O-C-N	-5.33	116.55	122.09
1	3Y	126	VAL	CA-C-N	5.33	125.90	119.98
1	3Y	126	VAL	C-N-CA	5.33	125.90	119.98
1	40	62	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	44	26	VAL	CA-C-N	5.33	127.76	120.46
1	44	26	VAL	C-N-CA	5.33	127.76	120.46
1	4b	202	LEU	CA-C-N	5.33	127.42	120.28
1	4b	202	LEU	C-N-CA	5.33	127.42	120.28
1	4k	62	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	4o	227	LYS	N-CA-C	5.33	118.98	111.52
1	4S	19	THR	CA-C-O	-5.33	114.90	120.55
1	4S	22	ALA	N-CA-C	5.33	117.09	111.28
1	4S	84	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	4V	127	GLY	CA-C-N	5.33	127.37	120.44
1	4V	127	GLY	C-N-CA	5.33	127.37	120.44
1	5n	173	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	5q	93	PRO	CA-N-CD	-5.33	104.53	112.00
1	5s	12	HIS	CA-CB-CG	-5.33	108.47	113.80
1	5D	205	LEU	O-C-N	5.33	127.77	122.12
1	5Q	133	TRP	O-C-N	-5.33	116.47	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	64	18	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	6B	58	THR	CA-CB-OG1	5.33	117.60	109.60
1	6E	14	ALA	O-C-N	-5.33	116.94	122.96
1	6H	230	VAL	CA-C-O	-5.33	115.10	121.28
1	6O	188	THR	CA-C-N	5.33	127.37	120.44
1	6O	188	THR	C-N-CA	5.33	127.37	120.44
1	6X	152	ASP	CA-CB-CG	-5.33	107.27	112.60
1	73	191	VAL	N-CA-C	5.33	116.70	110.62
1	7c	48	THR	CA-C-N	5.33	126.50	119.84
1	7c	48	THR	C-N-CA	5.33	126.50	119.84
1	7d	214	MET	N-CA-C	5.33	116.78	111.07
1	7e	64	ALA	CA-C-N	5.33	127.86	120.29
1	7e	64	ALA	C-N-CA	5.33	127.86	120.29
1	7m	118	MET	CA-C-N	5.33	131.34	122.54
1	7m	118	MET	C-N-CA	5.33	131.34	122.54
1	7q	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	7r	26	VAL	CA-CB-CG2	-5.33	101.34	110.40
1	7w	23	TRP	CA-C-O	-5.33	115.22	120.82
1	7x	5	ASN	N-CA-CB	-5.33	102.92	110.81
1	7D	97	ARG	N-CA-C	5.33	117.60	110.35
1	7P	193	ASN	CB-CG-OD1	5.33	131.46	120.80
1	7U	80	TRP	CE2-CD2-CE3	5.33	124.13	118.80
1	7Y	212	GLU	O-C-N	-5.33	116.47	122.12
1	84	92	GLU	CA-C-N	5.33	126.17	119.98
1	84	92	GLU	C-N-CA	5.33	126.17	119.98
1	8u	192	GLN	N-CA-C	5.33	119.04	112.54
1	8L	63	GLN	CB-CA-C	5.33	121.26	110.38
1	8L	197	ASP	CA-CB-CG	5.33	117.93	112.60
1	92	61	GLY	CA-C-N	5.33	131.72	121.54
1	92	61	GLY	C-N-CA	5.33	131.72	121.54
1	96	36	VAL	N-CA-C	5.33	115.54	110.42
1	98	190	LEU	CA-C-N	5.33	127.38	120.56
1	98	190	LEU	C-N-CA	5.33	127.38	120.56
1	9a	119	THR	CA-C-N	5.33	128.80	120.75
1	9a	119	THR	C-N-CA	5.33	128.80	120.75
1	9b	103	ASP	CA-C-N	5.33	127.76	120.46
1	9b	103	ASP	C-N-CA	5.33	127.76	120.46
1	9f	220	GLY	CA-C-O	5.33	125.69	119.19
1	9H	179	GLN	O-C-N	5.33	127.77	122.12
1	9M	79	GLU	N-CA-CB	5.33	117.96	110.12
1	9R	84	HIS	CA-C-N	5.33	126.50	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9R	84	HIS	C-N-CA	5.33	126.50	119.84
1	9T	208	ALA	CB-CA-C	5.33	119.61	110.01
1	a9	35	GLU	CA-CB-CG	-5.33	103.44	114.10
1	ae	75	GLU	N-CA-C	5.33	117.17	111.36
1	aC	68	MET	CG-SD-CE	-5.33	89.17	100.90
1	aK	151	LEU	CA-C-N	5.33	127.86	120.29
1	aK	151	LEU	C-N-CA	5.33	127.86	120.29
1	aQ	81	ASP	O-C-N	-5.33	116.47	122.12
1	aV	230	VAL	CA-C-O	5.33	126.91	121.58
1	aX	46	GLY	CA-C-N	5.33	129.04	121.42
1	aX	46	GLY	C-N-CA	5.33	129.04	121.42
1	b1	62	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	b3	229	ARG	O-C-N	-5.33	116.41	123.13
1	b8	136	LEU	CA-C-N	5.33	126.01	119.99
1	b8	136	LEU	C-N-CA	5.33	126.01	119.99
1	bp	168	PHE	CB-CG-CD2	-5.33	111.64	120.70
1	br	32	PHE	CA-CB-CG	-5.33	108.47	113.80
1	bt	162	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	bw	31	ALA	CB-CA-C	-5.33	110.41	116.54
1	bD	35	GLU	O-C-N	-5.33	115.98	122.22
1	bG	23	TRP	CB-CG-CD1	-5.33	118.90	126.90
1	bG	144	MET	O-C-N	-5.33	116.58	122.07
1	bH	145	TYR	CB-CG-CD1	-5.33	112.80	120.80
1	bM	39	MET	CA-C-O	-5.33	115.22	120.82
1	c6	198	CYS	CA-C-N	5.33	127.69	120.38
1	c6	198	CYS	C-N-CA	5.33	127.69	120.38
1	ca	56	LEU	CA-C-N	5.33	127.42	120.28
1	ca	56	LEU	C-N-CA	5.33	127.42	120.28
1	cf	84	HIS	O-C-N	-5.33	114.87	120.68
1	cy	174	ALA	CB-CA-C	5.33	119.64	110.79
1	1f	144	MET	CG-SD-CE	-5.33	89.17	100.90
1	cJ	158	LYS	CA-C-O	-5.33	113.44	119.78
1	cK	219	GLN	O-C-N	-5.33	115.89	122.82
1	cM	140	LYS	CA-C-N	5.33	127.77	120.46
1	cM	140	LYS	C-N-CA	5.33	127.77	120.46
1	cN	162	ARG	CA-C-N	5.33	127.69	120.65
1	cN	162	ARG	C-N-CA	5.33	127.69	120.65
1	cV	63	GLN	CA-C-N	5.33	127.86	120.29
1	cV	63	GLN	C-N-CA	5.33	127.86	120.29
1	cZ	200	THR	N-CA-C	-5.33	105.37	111.07
1	da	95	GLN	CG-CD-OE1	5.33	131.46	120.80
1	1j	51	ASP	N-CA-C	5.33	117.09	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	df	194	ALA	O-C-N	-5.33	116.51	122.75
1	dl	226	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	dC	140	LYS	CA-C-N	5.33	127.28	120.56
1	dC	140	LYS	C-N-CA	5.33	127.28	120.56
1	dF	64	ALA	N-CA-C	5.33	117.51	111.11
1	dG	62	HIS	CA-C-N	5.33	129.62	120.72
1	dG	62	HIS	C-N-CA	5.33	129.62	120.72
1	dG	175	GLU	N-CA-C	5.33	117.32	108.20
1	el	62	HIS	N-CA-C	5.33	118.55	111.30
1	ev	56	LEU	CA-C-O	5.33	126.42	120.82
1	eC	38	PRO	N-CA-CB	-5.33	97.63	103.39
1	eM	32	PHE	CA-C-N	5.33	129.79	122.06
1	eM	32	PHE	C-N-CA	5.33	129.79	122.06
1	1t	25	LYS	CB-CA-C	5.33	119.64	110.79
1	eU	146	SER	N-CA-CB	5.33	117.22	110.23
1	eX	166	ASP	CA-C-N	5.33	127.37	120.44
1	eX	166	ASP	C-N-CA	5.33	127.37	120.44
1	1v	112	GLN	N-CA-C	5.33	117.09	111.28
1	fh	140	LYS	O-C-N	-5.33	115.71	122.27
1	fk	167	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	fB	212	GLU	O-C-N	-5.33	116.47	122.12
1	fG	73	ILE	N-CA-C	5.33	116.06	110.62
1	fM	38	PRO	N-CA-CB	5.33	108.27	103.20
1	fP	92	GLU	N-CA-CB	-5.33	105.80	111.29
1	1A	173	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	1B	194	ALA	N-CA-C	5.33	117.41	110.43
1	g	210	THR	O-C-N	-5.33	117.00	123.03
1	h	84	HIS	CA-C-N	-5.33	113.17	119.84
1	h	84	HIS	C-N-CA	-5.33	113.17	119.84
1	o	221	VAL	N-CA-CB	5.33	120.03	111.23
1	u	100	ARG	CA-C-N	5.33	126.02	119.99
1	u	100	ARG	C-N-CA	5.33	126.02	119.99
1	F	37	ILE	CB-CG1-CD1	5.33	125.00	113.80
1	H	87	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	K	140	LYS	N-CA-C	5.33	117.09	111.28
1	M	139	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	V	93	PRO	N-CA-CB	-5.33	98.56	102.35
1	8	130	TYR	CB-CG-CD2	5.33	128.80	120.80
1	9	135	ILE	CA-C-O	5.33	126.59	121.05
1	ga	142	VAL	CA-C-O	-5.33	115.41	120.95
1	gi	185	MET	CA-C-N	5.33	127.86	120.29
1	gi	185	MET	C-N-CA	5.33	127.86	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gu	197	ASP	O-C-N	-5.33	116.47	122.12
1	gW	37	ILE	O-C-N	-5.33	115.02	121.10
1	hd	15	ILE	N-CA-C	5.33	117.31	109.63
1	1I	189	LEU	N-CA-CB	5.33	117.95	110.12
1	hl	132	ARG	N-CA-C	5.33	117.09	111.28
1	hq	160	PRO	N-CA-CB	-5.33	97.78	103.38
1	i8	95	GLN	OE1-CD-NE2	5.33	127.93	122.60
1	il	62	HIS	CB-CG-CD2	-5.33	124.27	131.20
1	in	129	ILE	N-CA-C	5.33	115.54	110.42
1	iD	226	HIS	CA-C-N	5.33	131.72	121.54
1	iD	226	HIS	C-N-CA	5.33	131.72	121.54
1	iZ	186	THR	N-CA-CB	5.33	117.74	110.01
1	jj	62	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	ju	181	VAL	CA-C-O	-5.33	115.52	121.17
1	jy	47	ALA	N-CA-CB	-5.33	101.78	109.83
1	jC	172	LEU	CA-C-N	5.33	127.42	120.28
1	jC	172	LEU	C-N-CA	5.33	127.42	120.28
1	jG	219	GLN	N-CA-CB	5.33	117.88	110.04
1	jO	193	ASN	CA-C-O	-5.33	113.66	119.95
1	kd	112	GLN	N-CA-C	5.33	116.77	111.07
1	23	62	HIS	ND1-CG-CD2	5.33	111.43	106.10
1	l1	51	ASP	O-C-N	5.33	127.56	122.07
1	l7	2	ILE	N-CA-C	5.33	118.20	109.78
1	lb	34	PRO	CA-C-N	5.33	127.42	120.28
1	lb	34	PRO	C-N-CA	5.33	127.42	120.28
1	lx	148	THR	O-C-N	-5.33	116.24	122.96
1	lz	164	TYR	CA-C-O	5.33	126.19	120.70
1	lD	11	VAL	CA-CB-CG2	-5.33	101.34	110.40
1	2b	197	ASP	N-CA-CB	-5.33	102.34	110.07
1	2t	169	TYR	O-C-N	-5.33	116.58	122.07
1	2u	222	GLY	N-CA-C	5.33	120.95	111.73
1	2Z	52	LEU	O-C-N	-5.33	116.07	122.15
1	3b	25	LYS	N-CA-C	5.33	117.09	111.28
1	3n	57	ASN	CA-CB-CG	-5.33	107.27	112.60
1	3n	170	LYS	CA-C-N	5.33	127.37	120.44
1	3n	170	LYS	C-N-CA	5.33	127.37	120.44
1	3w	163	ASP	N-CA-C	5.33	117.09	111.28
1	3C	21	ASN	CA-C-N	5.33	127.86	120.29
1	3C	21	ASN	C-N-CA	5.33	127.86	120.29
1	49	86	VAL	CA-C-O	5.33	127.22	121.36
1	4b	183	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	4l	115	ILE	CA-C-N	5.33	131.86	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4l	115	ILE	C-N-CA	5.33	131.86	121.41
1	4t	212	GLU	N-CA-C	5.33	117.78	111.33
1	4B	92	GLU	CB-CG-CD	5.33	121.66	112.60
1	4G	217	ALA	CA-C-O	5.33	127.20	121.44
1	5e	106	GLY	CA-C-N	5.33	127.86	120.29
1	5e	106	GLY	C-N-CA	5.33	127.86	120.29
1	5m	164	TYR	CB-CG-CD2	5.33	128.79	120.80
1	5p	216	THR	N-CA-C	-5.33	106.96	112.93
1	5u	146	SER	CA-C-O	-5.33	112.86	120.16
1	5v	48	THR	CA-C-O	-5.33	115.01	120.87
1	5U	203	LYS	N-CA-C	5.33	117.17	111.36
1	63	27	VAL	CA-CB-CG1	5.33	119.46	110.40
1	6h	200	THR	O-C-N	-5.33	116.58	122.07
1	6Z	136	LEU	O-C-N	-5.33	116.47	122.12
1	7I	152	ASP	CA-C-N	5.33	129.03	122.37
1	7I	152	ASP	C-N-CA	5.33	129.03	122.37
1	7Q	32	PHE	CA-CB-CG	-5.33	108.47	113.80
1	7T	191	VAL	CA-C-N	5.33	127.42	120.28
1	7T	191	VAL	C-N-CA	5.33	127.42	120.28
1	8a	227	LYS	CG-CD-CE	5.33	123.56	111.30
1	8d	62	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	8l	168	PHE	CB-CG-CD2	-5.33	111.64	120.70
1	8r	73	ILE	CA-C-O	-5.33	115.41	120.95
1	8t	32	PHE	N-CA-C	-5.33	106.62	113.02
1	8w	148	THR	CA-C-O	5.33	126.24	120.43
1	8x	197	ASP	CA-C-N	5.33	127.42	120.28
1	8x	197	ASP	C-N-CA	5.33	127.42	120.28
1	8S	92	GLU	O-C-N	-5.33	115.46	121.43
1	8S	104	ILE	CA-CB-CG2	5.33	119.56	110.50
1	99	179	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	9d	18	ARG	CA-C-O	5.33	126.07	120.42
1	a4	216	THR	N-CA-C	5.33	116.77	111.07
1	10	106	GLY	CA-C-N	5.33	127.73	120.54
1	10	106	GLY	C-N-CA	5.33	127.73	120.54
1	ac	78	ALA	N-CA-C	5.33	117.17	111.36
1	ay	21	ASN	CA-CB-CG	5.33	117.93	112.60
1	aD	223	GLY	CA-C-N	5.33	126.50	119.84
1	aD	223	GLY	C-N-CA	5.33	126.50	119.84
1	aH	15	ILE	N-CA-C	5.33	120.43	109.34
1	aX	50	GLN	OE1-CD-NE2	5.33	127.93	122.60
1	bk	58	THR	OG1-CB-CG2	-5.33	98.64	109.30
1	bn	80	TRP	CB-CA-C	5.33	119.64	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bp	145	TYR	CB-CG-CD1	-5.33	112.81	120.80
1	bX	187	GLU	N-CA-C	5.33	117.17	111.36
1	bZ	17	PRO	N-CA-C	5.33	120.85	113.65
1	1e	76	GLU	CB-CG-CD	-5.33	103.54	112.60
1	cq	84	HIS	CA-CB-CG	5.33	119.13	113.80
1	cr	97	ARG	CA-CB-CG	5.33	124.76	114.10
1	cw	53	ASN	CA-CB-CG	-5.33	107.27	112.60
1	cy	219	GLN	N-CA-C	5.33	117.09	111.28
1	cz	15	ILE	CA-C-N	5.33	128.78	120.68
1	cz	15	ILE	C-N-CA	5.33	128.78	120.68
1	1f	141	ILE	O-C-N	-5.33	116.34	121.83
1	dp	192	GLN	CB-CG-CD	5.33	121.66	112.60
1	dx	13	GLN	CA-C-N	5.33	128.80	120.75
1	dx	13	GLN	C-N-CA	5.33	128.80	120.75
1	dE	225	GLY	O-C-N	-5.33	115.77	122.70
1	1n	148	THR	N-CA-C	5.33	122.31	113.89
1	ep	139	ASN	CA-C-N	5.33	128.41	120.31
1	ep	139	ASN	C-N-CA	5.33	128.41	120.31
1	eV	118	MET	N-CA-C	5.33	119.65	113.20
1	f7	91	ILE	O-C-N	-5.33	117.58	123.18
1	fj	119	THR	CA-CB-CG2	-5.33	101.44	110.50
1	fq	163	ASP	N-CA-C	5.33	117.17	111.36
1	fR	177	ALA	N-CA-C	5.33	118.98	111.52
1	fW	146	SER	CA-C-N	5.33	125.25	119.76
1	fW	146	SER	C-N-CA	5.33	125.25	119.76
1	g4	194	ALA	CA-C-N	5.33	127.80	120.39
1	g4	194	ALA	C-N-CA	5.33	127.80	120.39
1	b	187	GLU	CA-C-N	5.33	130.38	122.17
1	b	187	GLU	C-N-CA	5.33	130.38	122.17
1	n	142	VAL	O-C-N	-5.33	116.70	121.87
1	K	184	TRP	CB-CA-C	-5.33	101.94	110.79
1	L	89	GLY	CA-C-N	5.33	126.50	119.84
1	L	89	GLY	C-N-CA	5.33	126.50	119.84
1	4	229	ARG	N-CA-CB	5.33	119.50	110.49
1	gu	2	ILE	O-C-N	-5.33	117.59	123.18
1	gu	162	ARG	N-CA-CB	5.33	117.74	110.01
1	gv	137	GLY	O-C-N	-5.33	116.21	122.34
1	gB	97	ARG	NH1-CZ-NH2	-5.33	112.37	119.30
1	gC	68	MET	CA-C-O	-5.33	115.23	120.82
1	gF	95	GLN	N-CA-C	-5.33	106.01	112.88
1	gQ	112	GLN	N-CA-C	5.33	117.50	111.11
1	gR	4	GLN	CB-CG-CD	5.33	121.66	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gR	48	THR	N-CA-CB	5.33	117.13	109.78
1	gR	56	LEU	CA-C-O	5.33	126.39	120.63
1	gS	135	ILE	CB-CA-C	5.33	118.70	111.88
1	gT	92	GLU	CB-CA-C	-5.33	101.71	109.38
1	gT	140	LYS	N-CA-C	5.33	117.09	111.28
1	h4	53	ASN	CA-CB-CG	-5.33	107.27	112.60
1	1H	93	PRO	N-CA-CB	5.33	108.84	103.25
1	hc	222	GLY	O-C-N	-5.33	117.71	122.77
1	he	13	GLN	N-CA-C	5.33	118.25	109.72
1	hg	98	GLU	N-CA-C	5.33	117.31	109.42
1	hj	42	ALA	N-CA-C	5.33	116.77	111.07
1	hu	97	ARG	NE-CZ-NH2	-5.33	114.41	119.20
1	hA	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	hJ	180	GLU	CA-C-N	5.33	127.27	120.56
1	hJ	180	GLU	C-N-CA	5.33	127.27	120.56
1	hK	80	TRP	N-CA-C	5.33	120.11	111.37
1	hQ	132	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	hV	6	LEU	CA-C-O	5.33	126.12	120.10
1	i0	192	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	in	82	ARG	CA-C-O	5.33	126.07	120.42
1	iq	111	LEU	N-CA-C	5.33	117.78	111.33
1	iw	210	THR	N-CA-C	5.33	116.96	110.41
1	ix	10	MET	N-CA-C	5.33	117.41	110.43
1	ix	186	THR	OG1-CB-CG2	-5.33	98.64	109.30
1	iy	124	ILE	O-C-N	-5.33	114.21	120.66
1	iB	4	GLN	CA-C-N	5.33	131.72	121.54
1	iB	4	GLN	C-N-CA	5.33	131.72	121.54
1	iB	6	LEU	O-C-N	-5.33	115.50	122.59
1	iC	72	THR	CA-C-N	5.33	127.28	120.56
1	iC	72	THR	C-N-CA	5.33	127.28	120.56
1	iE	69	LEU	CA-C-N	5.33	127.42	120.28
1	iE	69	LEU	C-N-CA	5.33	127.42	120.28
1	iF	5	ASN	CB-CA-C	-5.33	98.59	109.94
1	1R	132	ARG	CD-NE-CZ	-5.33	116.94	124.40
1	iM	39	MET	O-C-N	-5.33	116.47	122.12
1	iV	215	MET	N-CA-C	5.33	119.27	112.87
1	j0	126	VAL	N-CA-CB	5.33	117.13	110.47
1	j5	89	GLY	CA-C-N	5.33	126.50	119.84
1	j5	89	GLY	C-N-CA	5.33	126.50	119.84
1	je	100	ARG	CG-CD-NE	-5.33	100.28	112.00
1	jf	70	LYS	N-CA-C	5.33	116.77	111.07
1	1V	118	MET	CG-SD-CE	-5.33	89.18	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	189	LEU	N-CA-CB	5.33	117.95	110.12
1	jy	226	HIS	CA-CB-CG	5.33	119.13	113.80
1	jF	95	GLN	CA-C-O	-5.33	115.90	121.55
1	jI	107	THR	CB-CA-C	-5.33	101.79	110.85
1	jW	12	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	k0	11	VAL	N-CA-C	5.33	116.45	109.58
1	k6	62	HIS	CA-CB-CG	-5.33	108.47	113.80
1	kC	27	VAL	O-C-N	-5.33	116.70	121.87
1	kD	79	GLU	O-C-N	-5.33	116.47	122.12
1	kF	139	ASN	CB-CG-OD1	5.33	131.46	120.80
1	kK	98	GLU	CA-C-O	-5.33	115.38	119.32
1	24	182	LYS	CB-CA-C	-5.33	101.95	110.79
1	kP	188	THR	N-CA-CB	5.33	119.49	110.49
1	25	191	VAL	CA-C-O	5.33	126.00	120.25
1	l0	109	SER	O-C-N	-5.33	116.77	123.27
1	l9	209	ALA	O-C-N	-5.33	116.34	122.95
1	lE	18	ARG	CD-NE-CZ	-5.33	116.94	124.40
1	lG	74	ASN	N-CA-C	5.33	116.77	111.07
1	2a	192	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	lO	187	GLU	N-CA-C	5.33	116.77	111.07
1	2j	118	MET	N-CA-C	5.33	119.04	112.54
1	2D	16	SER	CA-C-N	5.33	126.50	119.84
1	2D	16	SER	C-N-CA	5.33	126.50	119.84
1	2J	182	LYS	N-CA-C	5.33	117.09	111.28
1	2M	48	THR	CA-C-N	5.33	125.39	119.32
1	2M	48	THR	C-N-CA	5.33	125.39	119.32
1	2R	20	LEU	N-CA-CB	5.33	117.95	110.12
1	2T	53	ASN	CA-C-N	5.33	127.86	120.29
1	2T	53	ASN	C-N-CA	5.33	127.86	120.29
1	35	163	ASP	CA-C-N	5.33	127.37	120.44
1	35	163	ASP	C-N-CA	5.33	127.37	120.44
1	37	154	ARG	NE-CZ-NH2	5.33	124.00	119.20
1	3c	188	THR	CA-C-N	5.33	127.42	120.28
1	3c	188	THR	C-N-CA	5.33	127.42	120.28
1	3l	138	LEU	CA-C-O	-5.33	113.84	119.97
1	3r	167	ARG	CA-C-N	5.33	127.37	120.44
1	3r	167	ARG	C-N-CA	5.33	127.37	120.44
1	3y	76	GLU	CA-C-N	5.33	127.37	120.44
1	3y	76	GLU	C-N-CA	5.33	127.37	120.44
1	3y	82	ARG	N-CA-CB	5.33	118.05	110.06
1	3J	135	ILE	CB-CA-C	5.33	119.33	112.14
1	3O	223	GLY	O-C-N	-5.33	116.44	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3P	173	ARG	N-CA-C	5.33	117.09	111.28
1	3U	95	GLN	N-CA-CB	5.33	119.11	110.42
1	42	190	LEU	CA-C-N	5.33	127.27	120.56
1	42	190	LEU	C-N-CA	5.33	127.27	120.56
1	47	58	THR	CA-C-O	5.33	125.50	119.27
1	4j	147	PRO	CA-C-N	5.33	131.08	122.29
1	4j	147	PRO	C-N-CA	5.33	131.08	122.29
1	4k	145	TYR	CA-C-O	5.33	125.79	119.56
1	4y	85	PRO	CA-C-N	5.33	129.48	120.64
1	4y	85	PRO	C-N-CA	5.33	129.48	120.64
1	4B	168	PHE	CA-C-N	5.33	127.42	120.28
1	4B	168	PHE	C-N-CA	5.33	127.42	120.28
1	4N	60	GLY	CA-C-N	5.33	126.25	120.44
1	4N	60	GLY	C-N-CA	5.33	126.25	120.44
1	4U	162	ARG	N-CA-C	5.33	117.50	111.11
1	4Z	161	PHE	CA-C-O	-5.33	115.22	120.82
1	5y	139	ASN	N-CA-C	5.33	117.09	111.28
1	5z	17	PRO	CB-CA-C	5.33	119.89	112.11
1	5V	98	GLU	N-CA-C	5.33	121.58	109.81
1	6r	132	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	6u	110	THR	CA-C-O	-5.33	115.52	121.81
1	6z	186	THR	OG1-CB-CG2	-5.33	98.64	109.30
1	6D	69	LEU	CB-CA-C	5.33	119.25	110.88
1	6G	177	ALA	CA-C-O	5.33	128.13	120.51
1	6V	23	TRP	CB-CA-C	5.33	119.25	110.88
1	6V	165	VAL	N-CA-C	5.33	116.06	110.62
1	70	107	THR	CA-C-O	-5.33	114.77	120.42
1	7h	105	ALA	N-CA-CB	-5.33	102.75	110.47
1	7k	143	ARG	NH1-CZ-NH2	5.33	126.23	119.30
1	7r	110	THR	O-C-N	-5.33	116.66	122.84
1	7v	6	LEU	N-CA-C	-5.33	106.09	112.59
1	7J	91	ILE	N-CA-C	5.33	115.98	108.36
1	7Q	31	ALA	CA-C-O	5.33	125.94	119.49
1	7Z	62	HIS	N-CA-CB	-5.33	104.00	111.62
1	80	202	LEU	N-CA-C	5.33	117.09	111.28
1	85	98	GLU	CA-C-N	5.33	125.50	119.90
1	85	98	GLU	C-N-CA	5.33	125.50	119.90
1	8m	41	SER	N-CA-CB	5.33	117.95	110.12
1	8C	68	MET	CA-C-N	5.33	127.69	120.44
1	8C	68	MET	C-N-CA	5.33	127.69	120.44
1	8E	167	ARG	NH1-CZ-NH2	-5.33	112.37	119.30
1	8K	205	LEU	CA-C-O	5.33	126.20	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	94	54	THR	CA-C-N	5.33	127.69	120.44
1	94	54	THR	C-N-CA	5.33	127.69	120.44
1	9g	105	ALA	O-C-N	5.33	128.69	122.24
1	9p	15	ILE	N-CA-C	5.33	115.26	108.12
1	9x	222	GLY	CA-C-O	5.33	129.84	120.57
1	9A	206	GLY	CA-C-N	5.33	126.50	119.84
1	9A	206	GLY	C-N-CA	5.33	126.50	119.84
1	9J	226	HIS	CB-CG-CD2	-5.33	124.27	131.20
1	9R	80	TRP	O-C-N	-5.33	116.47	122.12
1	9S	143	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	9V	159	GLU	CA-C-N	5.33	125.63	119.93
1	9V	159	GLU	C-N-CA	5.33	125.63	119.93
1	9Z	5	ASN	CA-C-O	5.33	126.99	120.92
1	ad	35	GLU	CA-C-N	5.33	127.99	120.42
1	ad	35	GLU	C-N-CA	5.33	127.99	120.42
1	aj	42	ALA	O-C-N	-5.33	116.47	122.12
1	11	19	THR	N-CA-CB	5.33	117.70	109.98
1	al	217	ALA	N-CA-C	-5.33	102.31	110.14
1	aB	51	ASP	CA-C-O	5.33	126.20	120.55
1	13	143	ARG	CA-C-O	5.33	126.07	120.42
1	aJ	113	GLU	CA-C-O	-5.33	114.90	120.55
1	15	117	TRP	N-CA-CB	5.33	117.73	110.01
1	b4	71	GLU	N-CA-C	5.33	117.50	111.11
1	bq	92	GLU	CA-C-O	-5.33	112.86	120.16
1	bT	206	GLY	O-C-N	-5.33	116.44	121.77
1	bW	132	ARG	CA-C-N	5.33	127.42	120.28
1	bW	132	ARG	C-N-CA	5.33	127.42	120.28
1	bX	13	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	c3	154	ARG	NH1-CZ-NH2	-5.33	112.37	119.30
1	1c	105	ALA	N-CA-C	-5.33	106.78	113.28
1	co	37	ILE	N-CA-C	5.33	120.39	108.88
1	cr	92	GLU	CB-CG-CD	5.33	121.66	112.60
1	cr	206	GLY	CA-C-N	5.33	124.84	119.19
1	cr	206	GLY	C-N-CA	5.33	124.84	119.19
1	1f	125	PRO	N-CA-CB	-5.33	98.84	102.73
1	cC	56	LEU	N-CA-C	5.33	117.17	111.36
1	cE	132	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	cH	57	ASN	N-CA-C	-5.33	106.37	112.92
1	cH	68	MET	CA-C-N	5.33	127.37	120.44
1	cH	68	MET	C-N-CA	5.33	127.37	120.44
1	1g	180	GLU	CB-CG-CD	5.33	121.66	112.60
1	d7	82	ARG	NH1-CZ-NH2	-5.33	112.37	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	db	151	LEU	CA-C-O	5.33	125.80	119.56
1	di	73	ILE	O-C-N	-5.33	116.69	121.91
1	dj	95	GLN	O-C-N	-5.33	116.94	122.96
1	dm	77	ALA	N-CA-C	5.33	117.09	111.28
1	dp	84	HIS	CA-C-N	5.33	125.32	119.89
1	dp	84	HIS	C-N-CA	5.33	125.32	119.89
1	ds	123	PRO	N-CA-CB	5.33	108.05	103.31
1	dy	214	MET	N-CA-CB	5.33	118.05	110.16
1	dF	8	GLY	CA-C-O	5.33	129.84	120.57
1	dG	84	HIS	ND1-CG-CD2	-5.33	100.77	106.10
1	1m	4	GLN	N-CA-CB	5.33	119.50	110.49
1	dR	138	LEU	O-C-N	-5.33	116.08	122.15
1	dX	184	TRP	CB-CG-CD2	5.33	134.26	126.80
1	e0	10	MET	N-CA-CB	5.33	119.50	110.49
1	e5	179	GLN	CB-CG-CD	5.33	121.66	112.60
1	ea	83	LEU	N-CA-CB	-5.33	101.54	110.39
1	eh	173	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	ek	30	LYS	CA-CB-CG	-5.33	103.44	114.10
1	et	51	ASP	CA-C-N	5.33	127.37	120.44
1	et	51	ASP	C-N-CA	5.33	127.37	120.44
1	et	224	PRO	CA-C-N	-5.33	113.16	121.42
1	et	224	PRO	C-N-CA	-5.33	113.16	121.42
1	ex	14	ALA	CA-C-N	5.33	127.72	120.63
1	ex	14	ALA	C-N-CA	5.33	127.72	120.63
1	eB	148	THR	CA-C-O	5.33	127.60	121.47
1	eD	216	THR	N-CA-C	-5.33	106.63	113.02
1	1s	226	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	eL	117	TRP	CA-C-N	5.33	127.42	120.28
1	eL	117	TRP	C-N-CA	5.33	127.42	120.28
1	eR	211	LEU	N-CA-C	5.33	117.09	111.28
1	f1	117	TRP	CA-C-N	5.33	127.95	120.28
1	f1	117	TRP	C-N-CA	5.33	127.95	120.28
1	f2	172	LEU	N-CA-C	5.33	117.09	111.28
1	fk	188	THR	CA-C-N	5.33	127.95	120.28
1	fk	188	THR	C-N-CA	5.33	127.95	120.28
1	fm	27	VAL	CA-C-N	5.33	129.74	120.68
1	fm	27	VAL	C-N-CA	5.33	129.74	120.68
1	fz	226	HIS	O-C-N	-5.33	116.48	122.34
1	fN	120	HIS	CA-C-O	-5.33	115.20	121.44
1	fQ	209	ALA	O-C-N	-5.33	116.47	122.97
1	g1	97	ARG	N-CA-C	5.33	118.01	110.50
1	g5	51	ASP	CA-C-N	5.33	127.42	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g5	51	ASP	C-N-CA	5.33	127.42	120.28
1	c	206	GLY	CA-C-O	-5.33	113.90	121.52
1	s	28	GLU	N-CA-C	5.33	117.84	111.71
1	s	67	GLN	CA-C-N	5.33	127.42	120.28
1	s	67	GLN	C-N-CA	5.33	127.42	120.28
1	u	226	HIS	O-C-N	-5.33	117.14	123.22
1	L	104	ILE	N-CA-C	5.33	116.05	110.62
1	V	23	TRP	CG-CD1-NE1	-5.33	103.27	110.20
1	gl	195	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	gr	84	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	gN	139	ASN	O-C-N	-5.33	116.55	122.09
1	gO	41	SER	CA-C-N	5.33	128.41	120.31
1	gO	41	SER	C-N-CA	5.33	128.41	120.31
1	gX	4	GLN	N-CA-CB	5.33	119.49	110.49
1	ha	183	ASN	OD1-CG-ND2	-5.33	117.27	122.60
1	hz	143	ARG	CA-C-O	-5.33	115.23	120.82
1	hO	2	ILE	CA-C-O	5.33	126.23	120.53
1	hS	84	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	hT	143	ARG	CA-C-O	5.33	126.41	120.82
1	id	206	GLY	N-CA-C	5.33	123.21	112.34
1	ip	50	GLN	O-C-N	-5.33	116.47	122.12
1	iv	169	TYR	N-CA-CB	-5.33	102.02	110.28
1	iR	13	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	iT	23	TRP	CE2-CD2-CE3	5.33	124.13	118.80
1	iW	52	LEU	CA-C-O	-5.33	114.90	120.55
1	jg	158	LYS	CG-CD-CE	5.33	123.55	111.30
1	jh	203	LYS	N-CA-C	5.33	117.84	111.71
1	jn	230	VAL	N-CA-C	5.33	116.42	108.54
1	js	155	GLN	OE1-CD-NE2	5.33	127.93	122.60
1	jU	64	ALA	CA-C-N	5.33	127.42	120.28
1	jU	64	ALA	C-N-CA	5.33	127.42	120.28
1	k0	132	ARG	NE-CZ-NH1	-5.33	116.17	121.50
1	k8	172	LEU	CA-C-O	5.33	126.12	120.10
1	kv	17	PRO	CA-C-N	5.33	127.42	120.28
1	kv	17	PRO	C-N-CA	5.33	127.42	120.28
1	kv	62	HIS	O-C-N	-5.33	115.42	122.40
1	kL	120	HIS	O-C-N	-5.33	116.72	122.79
1	kX	72	THR	N-CA-C	5.33	118.00	111.82
1	kZ	155	GLN	CA-C-O	-5.33	114.62	120.69
1	lu	177	ALA	N-CA-C	5.33	117.17	110.24
1	lu	204	ALA	N-CA-CB	-5.33	101.46	110.41
1	lD	21	ASN	CA-C-N	5.33	127.37	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lD	21	ASN	C-N-CA	5.33	127.37	120.44
1	lD	160	PRO	O-C-N	-5.33	116.40	123.01
1	2r	95	GLN	CA-C-N	5.33	129.25	121.31
1	2r	95	GLN	C-N-CA	5.33	129.25	121.31
1	2r	171	THR	CA-CB-OG1	5.33	117.59	109.60
1	38	195	ASN	CB-CA-C	5.33	118.20	109.46
1	3d	120	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	4z	64	ALA	N-CA-C	5.33	116.89	111.14
1	4I	103	ASP	CA-C-N	5.33	127.76	120.46
1	4I	103	ASP	C-N-CA	5.33	127.76	120.46
1	5a	56	LEU	CA-C-N	5.33	127.95	120.28
1	5a	56	LEU	C-N-CA	5.33	127.95	120.28
1	5q	197	ASP	O-C-N	-5.33	115.72	122.27
1	5K	2	ILE	O-C-N	-5.33	116.88	122.95
1	5P	75	GLU	CA-C-N	5.33	127.85	120.29
1	5P	75	GLU	C-N-CA	5.33	127.85	120.29
1	61	177	ALA	CA-C-N	5.33	131.72	121.54
1	61	177	ALA	C-N-CA	5.33	131.72	121.54
1	67	172	LEU	N-CA-CB	5.33	119.36	110.41
1	68	155	GLN	CA-CB-CG	5.33	124.75	114.10
1	6e	80	TRP	CE2-CD2-CE3	5.33	124.13	118.80
1	6t	148	THR	OG1-CB-CG2	-5.33	98.65	109.30
1	6x	10	MET	CG-SD-CE	-5.33	89.18	100.90
1	6N	154	ARG	CD-NE-CZ	5.33	131.86	124.40
1	74	142	VAL	CA-CB-CG1	5.33	119.46	110.40
1	74	200	THR	N-CA-CB	5.33	117.95	110.12
1	75	224	PRO	N-CA-C	-5.33	106.78	114.18
1	7P	194	ALA	CA-C-N	5.33	127.81	120.67
1	7P	194	ALA	C-N-CA	5.33	127.81	120.67
1	7V	133	TRP	CB-CG-CD2	-5.33	119.34	126.80
1	89	226	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	8r	38	PRO	CA-C-O	-5.33	112.31	120.03
1	8w	123	PRO	CA-C-O	-5.33	115.53	121.23
1	8y	63	GLN	N-CA-C	5.33	117.09	111.28
1	8z	215	MET	N-CA-CB	5.33	118.54	110.28
1	8E	68	MET	O-C-N	-5.33	115.72	122.27
1	9O	173	ARG	NE-CZ-NH2	-5.33	114.41	119.20
1	9V	229	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	a0	20	LEU	N-CA-C	5.33	117.09	111.28
1	ad	25	LYS	N-CA-C	5.33	116.77	111.07
1	ah	42	ALA	CA-C-N	5.33	127.68	120.38
1	ah	42	ALA	C-N-CA	5.33	127.68	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ar	100	ARG	O-C-N	-5.33	116.72	122.79
1	aM	93	PRO	CA-C-N	5.33	129.54	120.91
1	aM	93	PRO	C-N-CA	5.33	129.54	120.91
1	aS	134	ILE	N-CA-C	5.33	115.53	110.42
1	b2	52	LEU	N-CA-C	5.33	117.09	111.28
1	bf	106	GLY	CA-C-N	5.33	127.36	120.44
1	bf	106	GLY	C-N-CA	5.33	127.36	120.44
1	br	37	ILE	CA-C-O	-5.33	115.12	118.69
1	18	15	ILE	N-CA-C	5.33	120.42	109.34
1	by	166	ASP	N-CA-C	5.33	116.77	111.07
1	bO	72	THR	N-CA-C	5.33	120.16	111.37
1	ca	24	VAL	CB-CA-C	5.33	119.57	112.22
1	1g	170	LYS	CA-C-O	5.33	126.38	120.63
1	cM	21	ASN	CB-CG-ND2	5.33	124.39	116.40
1	1i	197	ASP	CA-C-O	-5.33	114.90	120.55
1	d5	81	ASP	CA-C-O	5.33	126.12	120.10
1	1j	48	THR	CA-C-N	5.33	125.39	119.32
1	1j	48	THR	C-N-CA	5.33	125.39	119.32
1	ds	39	MET	CG-SD-CE	-5.33	89.18	100.90
1	dB	65	ALA	N-CA-CB	-5.33	102.28	110.16
1	dQ	22	ALA	N-CA-C	5.33	116.89	111.14
1	ev	132	ARG	CA-C-N	5.33	127.73	120.54
1	ev	132	ARG	C-N-CA	5.33	127.73	120.54
1	eE	136	LEU	O-C-N	-5.33	116.47	122.12
1	eE	138	LEU	N-CA-C	5.33	117.09	111.28
1	eG	166	ASP	N-CA-CB	-5.33	102.28	110.16
1	eL	15	ILE	O-C-N	-5.33	116.98	122.63
1	eN	12	HIS	CA-C-N	5.33	130.59	122.65
1	eN	12	HIS	C-N-CA	5.33	130.59	122.65
1	eR	172	LEU	CA-C-O	5.33	126.20	120.55
1	fg	101	GLY	CA-C-N	5.33	127.68	120.38
1	fg	101	GLY	C-N-CA	5.33	127.68	120.38
1	1y	39	MET	CA-C-N	5.33	127.42	120.28
1	1y	39	MET	C-N-CA	5.33	127.42	120.28
1	fQ	176	GLN	CA-C-O	-5.33	113.19	119.05
1	d	71	GLU	CB-CA-C	5.33	119.24	110.88
1	k	33	SER	CA-C-N	5.33	125.04	119.82
1	k	33	SER	C-N-CA	5.33	125.04	119.82
1	2	19	THR	CA-CB-OG1	5.33	117.59	109.60
1	N	135	ILE	N-CA-CB	5.33	116.78	110.55
1	4	73	ILE	N-CA-CB	5.33	117.78	110.54
1	R	91	ILE	N-CA-C	5.33	115.54	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	R	123	PRO	O-C-N	-5.33	116.12	122.89
1	T	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	8	11	VAL	CA-CB-CG1	-5.33	101.34	110.40
1	gb	74	ASN	CA-C-N	5.33	127.42	120.28
1	gb	74	ASN	C-N-CA	5.33	127.42	120.28
1	gc	86	VAL	CA-C-N	5.33	128.33	120.82
1	gc	86	VAL	C-N-CA	5.33	128.33	120.82
1	gd	203	LYS	CA-C-N	5.33	127.36	120.44
1	gd	203	LYS	C-N-CA	5.33	127.36	120.44
1	gk	183	ASN	N-CA-C	5.33	117.78	111.33
1	gK	166	ASP	CA-CB-CG	5.33	117.93	112.60
1	gK	173	ARG	N-CA-C	5.33	117.08	111.28
1	h6	50	GLN	CA-C-O	5.33	126.19	120.55
1	1I	58	THR	CA-C-O	5.33	126.12	120.10
1	hi	96	MET	O-C-N	-5.33	117.15	123.22
1	hm	121	ASN	CB-CG-OD1	-5.33	110.15	120.80
1	hH	90	PRO	CA-C-N	5.33	129.64	122.93
1	hH	90	PRO	C-N-CA	5.33	129.64	122.93
1	hR	223	GLY	CA-C-N	5.33	126.08	120.11
1	hR	223	GLY	C-N-CA	5.33	126.08	120.11
1	hW	199	LYS	N-CA-C	5.33	117.83	111.71
1	ij	199	LYS	N-CA-C	5.33	117.77	111.33
1	iH	181	VAL	N-CA-C	5.33	116.05	110.62
1	iK	190	LEU	CA-C-O	5.33	126.89	120.92
1	iN	21	ASN	CB-CG-ND2	-5.33	108.41	116.40
1	iX	154	ARG	NH1-CZ-NH2	-5.33	112.38	119.30
1	iX	216	THR	CA-C-N	5.33	129.87	120.87
1	iX	216	THR	C-N-CA	5.33	129.87	120.87
1	j2	197	ASP	CA-C-N	5.33	127.42	120.28
1	j2	197	ASP	C-N-CA	5.33	127.42	120.28
1	jn	2	ILE	CA-C-N	5.33	128.22	120.98
1	jn	2	ILE	C-N-CA	5.33	128.22	120.98
1	jn	20	LEU	CA-C-N	5.33	127.36	120.44
1	jn	20	LEU	C-N-CA	5.33	127.36	120.44
1	jp	204	ALA	O-C-N	-5.33	116.34	122.09
1	ju	68	MET	O-C-N	-5.33	116.47	122.12
1	jx	87	HIS	CB-CG-CD2	-5.33	124.28	131.20
1	jI	229	ARG	N-CA-C	5.33	116.82	109.15
1	jL	95	GLN	O-C-N	-5.33	116.97	123.10
1	k1	222	GLY	CA-C-O	-5.33	113.65	119.88
1	k3	61	GLY	CA-C-N	5.33	129.74	122.34
1	k3	61	GLY	C-N-CA	5.33	129.74	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	23	TRP	O-C-N	-5.33	116.08	122.15
1	ke	31	ALA	O-C-N	-5.33	116.47	122.12
1	ke	42	ALA	N-CA-C	-5.33	105.48	111.28
1	ke	183	ASN	CA-C-N	5.33	127.42	120.28
1	ke	183	ASN	C-N-CA	5.33	127.42	120.28
1	kr	32	PHE	CA-CB-CG	-5.33	108.47	113.80
1	ks	148	THR	CA-CB-OG1	5.33	117.59	109.60
1	kD	226	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	23	188	THR	CA-CB-OG1	-5.33	101.61	109.60
1	kF	12	HIS	CB-CG-ND1	5.33	130.69	122.70
1	kN	78	ALA	CA-C-N	5.33	129.66	121.19
1	kN	78	ALA	C-N-CA	5.33	129.66	121.19
1	kO	148	THR	O-C-N	-5.33	116.38	122.93
1	kV	121	ASN	CA-C-O	-5.33	114.44	119.55
1	lc	53	ASN	CA-C-O	5.33	126.06	120.42
1	lh	58	THR	CA-C-N	5.33	128.55	120.77
1	lh	58	THR	C-N-CA	5.33	128.55	120.77
1	27	129	ILE	N-CA-C	5.33	115.53	110.42
1	lw	184	TRP	N-CA-CB	5.33	117.95	110.12
1	lz	68	MET	N-CA-CB	-5.33	102.28	110.16
1	lF	112	GLN	CB-CA-C	5.33	119.63	110.79
1	2b	193	ASN	CA-C-O	5.33	126.14	119.59
1	2t	84	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	2u	216	THR	N-CA-C	5.33	117.83	111.71
1	2v	63	GLN	CA-C-O	-5.33	114.91	120.55
1	2v	181	VAL	N-CA-C	5.33	115.53	110.42
1	2N	139	ASN	O-C-N	-5.33	116.48	122.12
1	2V	47	ALA	CB-CA-C	5.33	118.25	110.26
1	2X	193	ASN	CA-CB-CG	-5.33	107.27	112.60
1	33	62	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	34	78	ALA	N-CA-CB	-5.33	101.72	110.40
1	36	98	GLU	O-C-N	-5.33	115.81	121.30
1	3a	85	PRO	CA-C-O	-5.33	115.17	121.67
1	3b	105	ALA	O-C-N	-5.33	115.68	122.34
1	3b	195	ASN	CB-CA-C	5.33	117.84	109.27
1	3e	87	HIS	CE1-NE2-CD2	-5.33	103.67	109.00
1	3p	181	VAL	N-CA-CB	-5.33	102.59	110.58
1	3r	203	LYS	N-CA-C	5.33	117.08	111.28
1	3z	5	ASN	N-CA-CB	-5.33	103.92	111.00
1	3z	95	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	3A	126	VAL	N-CA-CB	5.33	116.42	110.51
1	3A	226	HIS	CG-CD2-NE2	5.33	112.53	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3C	227	LYS	CA-C-N	5.33	128.65	120.82
1	3C	227	LYS	C-N-CA	5.33	128.65	120.82
1	3Y	25	LYS	N-CA-CB	5.33	117.73	110.01
1	43	98	GLU	O-C-N	-5.33	116.56	121.30
1	43	127	GLY	CA-C-N	5.33	127.42	120.28
1	43	127	GLY	C-N-CA	5.33	127.42	120.28
1	4c	12	HIS	O-C-N	-5.33	116.25	122.96
1	4i	143	ARG	N-CA-CB	-5.33	102.29	110.12
1	4o	70	LYS	N-CA-C	5.33	117.50	111.11
1	4N	61	GLY	CA-C-O	-5.33	115.32	122.24
1	4S	80	TRP	CA-C-O	5.33	126.19	120.55
1	54	150	ILE	CA-C-O	5.33	126.59	121.05
1	55	185	MET	N-CA-C	5.33	117.09	111.28
1	5a	100	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	5f	132	ARG	N-CA-C	5.33	117.08	111.28
1	5f	134	ILE	CA-C-N	5.33	127.76	120.46
1	5f	134	ILE	C-N-CA	5.33	127.76	120.46
1	5q	5	ASN	N-CA-C	5.33	117.74	110.55
1	5v	33	SER	O-C-N	-5.33	116.65	121.39
1	5z	67	GLN	OE1-CD-NE2	-5.33	117.27	122.60
1	5H	121	ASN	CA-CB-CG	-5.33	107.28	112.60
1	5L	164	TYR	N-CA-C	5.33	116.77	111.07
1	5O	50	GLN	N-CA-C	5.33	117.09	111.28
1	5P	16	SER	CA-C-N	5.33	125.65	119.47
1	5P	16	SER	C-N-CA	5.33	125.65	119.47
1	5R	85	PRO	CA-C-N	5.33	128.31	120.91
1	5R	85	PRO	C-N-CA	5.33	128.31	120.91
1	61	8	GLY	CA-C-N	5.33	128.41	120.90
1	61	8	GLY	C-N-CA	5.33	128.41	120.90
1	6o	227	LYS	N-CA-C	-5.33	101.59	110.17
1	6s	166	ASP	O-C-N	5.33	127.76	122.12
1	6C	200	THR	OG1-CB-CG2	-5.33	98.65	109.30
1	6H	66	MET	CA-C-O	-5.33	115.23	120.82
1	6V	74	ASN	N-CA-C	5.33	117.08	111.28
1	71	187	GLU	O-C-N	-5.33	115.51	122.59
1	74	2	ILE	CB-CA-C	-5.33	103.60	110.84
1	74	47	ALA	N-CA-C	5.33	117.75	110.24
1	75	44	SER	CB-CA-C	-5.33	101.60	110.81
1	79	214	MET	CA-C-O	-5.33	115.23	120.82
1	7b	146	SER	N-CA-C	5.33	121.58	109.81
1	7e	12	HIS	O-C-N	-5.33	116.58	122.86
1	7o	2	ILE	O-C-N	-5.33	116.91	123.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	177	ALA	CA-C-N	5.33	128.79	120.75
1	7p	177	ALA	C-N-CA	5.33	128.79	120.75
1	7F	83	LEU	CA-C-O	-5.33	114.78	120.42
1	7K	120	HIS	CB-CG-ND1	5.33	130.69	122.70
1	7R	167	ARG	NE-CZ-NH2	-5.33	114.41	119.20
1	7U	165	VAL	CA-CB-CG1	5.33	119.45	110.40
1	82	69	LEU	CA-C-N	5.33	127.42	120.28
1	82	69	LEU	C-N-CA	5.33	127.42	120.28
1	83	199	LYS	N-CA-C	5.33	118.57	111.75
1	8r	139	ASN	CB-CG-ND2	-5.33	108.41	116.40
1	8G	48	THR	CA-C-N	5.33	126.50	119.84
1	8G	48	THR	C-N-CA	5.33	126.50	119.84
1	8M	186	THR	N-CA-C	5.33	117.08	111.28
1	8T	92	GLU	N-CA-C	5.33	116.40	109.64
1	8Z	73	ILE	CA-C-O	5.33	126.49	120.95
1	90	78	ALA	N-CA-C	5.33	117.08	111.28
1	91	126	VAL	N-CA-C	5.33	116.69	110.62
1	96	12	HIS	CG-CD2-NE2	5.33	112.53	107.20
1	9j	217	ALA	CA-C-O	5.33	128.12	120.51
1	9l	145	TYR	CB-CG-CD1	5.33	128.79	120.80
1	9u	13	GLN	N-CA-C	5.33	117.07	109.14
1	9v	177	ALA	O-C-N	-5.33	116.04	123.34
1	9w	78	ALA	N-CA-C	5.33	117.09	111.28
1	9w	210	THR	CA-C-N	5.33	127.68	120.38
1	9w	210	THR	C-N-CA	5.33	127.68	120.38
1	9B	204	ALA	CA-C-N	5.33	127.68	120.65
1	9B	204	ALA	C-N-CA	5.33	127.68	120.65
1	9G	209	ALA	N-CA-C	5.33	117.59	110.35
1	9I	200	THR	CA-CB-OG1	5.33	117.59	109.60
1	9K	221	VAL	O-C-N	-5.33	116.86	122.83
1	9Z	58	THR	N-CA-CB	5.33	118.54	110.28
1	9Z	130	TYR	CB-CA-C	5.33	119.63	110.79
1	a2	19	THR	OG1-CB-CG2	-5.33	98.65	109.30
1	a8	192	GLN	N-CA-C	5.33	117.08	111.28
1	an	173	ARG	N-CA-C	-5.33	106.16	113.30
1	13	90	PRO	CB-CA-C	5.33	120.35	111.56
1	aK	57	ASN	N-CA-C	5.33	117.17	111.36
1	aK	194	ALA	O-C-N	-5.33	115.22	122.36
1	aO	119	THR	O-C-N	-5.33	115.75	122.19
1	aS	18	ARG	NE-CZ-NH1	5.33	126.83	121.50
1	b0	128	GLU	O-C-N	-5.33	116.58	122.07
1	b9	205	LEU	N-CA-C	-5.33	103.41	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	167	ARG	NE-CZ-NH2	-5.33	114.41	119.20
1	bh	162	ARG	N-CA-C	5.33	117.16	111.36
1	br	20	LEU	N-CA-CB	5.33	117.79	110.07
1	by	115	ILE	CA-C-N	5.33	125.85	119.94
1	by	115	ILE	C-N-CA	5.33	125.85	119.94
1	bB	62	HIS	ND1-CE1-NE2	5.33	113.73	108.40
1	bE	10	MET	CB-CA-C	-5.33	101.06	109.80
1	bI	172	LEU	N-CA-C	5.33	117.08	111.28
1	bL	148	THR	CA-C-N	5.33	129.44	121.72
1	bL	148	THR	C-N-CA	5.33	129.44	121.72
1	bM	191	VAL	O-C-N	-5.33	115.78	121.80
1	bQ	164	TYR	N-CA-CB	5.33	117.91	109.82
1	bT	160	PRO	CA-C-N	5.33	131.71	121.54
1	bT	160	PRO	C-N-CA	5.33	131.71	121.54
1	bY	4	GLN	CG-CD-NE2	5.33	124.39	116.40
1	c4	197	ASP	CA-CB-CG	-5.33	107.28	112.60
1	c5	51	ASP	CA-C-N	5.33	127.36	120.44
1	c5	51	ASP	C-N-CA	5.33	127.36	120.44
1	c6	23	TRP	CB-CG-CD2	-5.33	119.34	126.80
1	c7	126	VAL	N-CA-CB	5.33	117.78	110.54
1	c7	184	TRP	CA-C-N	5.33	127.85	120.29
1	c7	184	TRP	C-N-CA	5.33	127.85	120.29
1	c8	185	MET	N-CA-C	5.33	117.77	111.33
1	cj	175	GLU	N-CA-CB	5.33	117.80	109.97
1	ck	92	GLU	CA-C-N	5.33	125.63	119.93
1	ck	92	GLU	C-N-CA	5.33	125.63	119.93
1	cn	28	GLU	N-CA-C	5.33	117.50	111.11
1	cn	62	HIS	ND1-CG-CD2	5.33	111.43	106.10
1	cz	34	PRO	CA-C-N	5.33	127.95	120.28
1	cz	34	PRO	C-N-CA	5.33	127.95	120.28
1	cF	132	ARG	N-CA-C	5.33	117.08	111.28
1	cZ	175	GLU	N-CA-C	5.33	116.82	109.15
1	d8	125	PRO	CB-CA-C	-5.33	102.77	111.56
1	db	172	LEU	CA-C-N	5.33	127.36	120.44
1	db	172	LEU	C-N-CA	5.33	127.36	120.44
1	dk	166	ASP	N-CA-CB	-5.33	102.29	110.01
1	dk	181	VAL	O-C-N	-5.33	116.69	121.91
1	dr	85	PRO	CA-C-N	5.33	127.71	120.63
1	dr	85	PRO	C-N-CA	5.33	127.71	120.63
1	dJ	201	ILE	CA-C-N	5.33	127.36	120.44
1	dJ	201	ILE	C-N-CA	5.33	127.36	120.44
1	dZ	21	ASN	OD1-CG-ND2	5.33	127.92	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eg	88	ALA	CA-C-O	5.33	127.36	121.56
1	ek	160	PRO	CB-CA-C	5.33	117.96	110.98
1	ep	204	ALA	N-CA-C	5.33	116.77	111.07
1	ey	58	THR	O-C-N	-5.33	114.85	122.41
1	eY	22	ALA	CA-C-O	-5.33	115.23	120.82
1	1v	161	PHE	CA-CB-CG	-5.33	108.47	113.80
1	fi	40	PHE	CA-C-N	5.33	127.36	120.44
1	fi	40	PHE	C-N-CA	5.33	127.36	120.44
1	fj	14	ALA	CA-C-N	5.33	127.84	120.49
1	fj	14	ALA	C-N-CA	5.33	127.84	120.49
1	fo	50	GLN	CB-CA-C	5.33	119.33	110.81
1	fo	139	ASN	CA-CB-CG	5.33	117.93	112.60
1	fJ	58	THR	O-C-N	-5.33	116.47	122.12
1	1A	120	HIS	O-C-N	-5.33	116.10	122.65
1	g4	195	ASN	N-CA-CB	-5.33	101.62	109.98
1	f	128	GLU	N-CA-CB	-5.33	102.29	110.12
1	o	137	GLY	O-C-N	-5.33	116.47	122.28
1	t	148	THR	N-CA-CB	5.33	121.43	111.53
1	D	167	ARG	N-CA-C	5.33	117.08	111.28
1	X	195	ASN	CA-C-N	5.33	126.50	119.84
1	X	195	ASN	C-N-CA	5.33	126.50	119.84
1	g9	212	GLU	N-CA-C	5.32	117.16	111.36
1	gi	57	ASN	CA-CB-CG	-5.32	107.28	112.60
1	gj	84	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	gl	204	ALA	N-CA-CB	-5.32	102.30	110.12
1	gu	139	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	gB	8	GLY	CA-C-O	5.32	129.83	120.57
1	gH	45	GLU	CA-C-O	5.32	128.12	120.51
1	gH	53	ASN	CA-CB-CG	-5.32	107.28	112.60
1	gM	42	ALA	N-CA-C	5.32	117.83	111.71
1	gN	179	GLN	CA-C-N	5.32	127.41	120.28
1	gN	179	GLN	C-N-CA	5.32	127.41	120.28
1	1G	16	SER	CA-C-N	5.32	126.50	119.84
1	1G	16	SER	C-N-CA	5.32	126.50	119.84
1	1G	39	MET	CA-C-N	5.32	127.85	120.29
1	1G	39	MET	C-N-CA	5.32	127.85	120.29
1	1G	87	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	gX	191	VAL	CA-CB-CG2	-5.32	101.35	110.40
1	h1	96	MET	O-C-N	-5.32	116.45	123.21
1	h9	66	MET	N-CA-C	5.32	117.08	111.28
1	hh	182	LYS	CB-CA-C	5.32	119.24	110.88
1	hj	74	ASN	CB-CA-C	5.32	119.24	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hn	128	GLU	CA-C-N	5.32	127.47	120.60
1	hn	128	GLU	C-N-CA	5.32	127.47	120.60
1	hp	79	GLU	CA-C-O	5.32	126.19	120.55
1	ht	21	ASN	N-CA-C	5.32	117.08	111.28
1	hw	103	ASP	CA-CB-CG	5.32	117.92	112.60
1	hI	100	ARG	CD-NE-CZ	5.32	131.85	124.40
1	hK	176	GLN	O-C-N	-5.32	115.45	122.42
1	hP	82	ARG	O-C-N	-5.32	114.85	122.41
1	hP	159	GLU	N-CA-C	-5.32	102.08	108.25
1	hP	181	VAL	CA-C-N	5.32	127.41	120.28
1	hP	181	VAL	C-N-CA	5.32	127.41	120.28
1	hW	56	LEU	CA-C-N	5.32	127.85	120.29
1	hW	56	LEU	C-N-CA	5.32	127.85	120.29
1	hX	180	GLU	N-CA-C	5.32	117.08	111.28
1	1N	34	PRO	O-C-N	5.32	129.80	122.35
1	ie	11	VAL	O-C-N	-5.32	117.51	123.26
1	ih	183	ASN	CB-CA-C	-5.32	102.49	110.90
1	is	33	SER	N-CA-C	5.32	117.84	110.07
1	iu	224	PRO	CA-C-N	5.32	126.79	120.14
1	iu	224	PRO	C-N-CA	5.32	126.79	120.14
1	1Q	132	ARG	N-CA-CB	5.32	117.87	109.94
1	j3	23	TRP	N-CA-C	5.32	116.77	111.07
1	j6	136	LEU	N-CA-C	5.32	116.77	111.07
1	je	173	ARG	NH1-CZ-NH2	-5.32	112.38	119.30
1	jg	138	LEU	CA-C-N	5.32	127.36	120.44
1	jg	138	LEU	C-N-CA	5.32	127.36	120.44
1	jw	61	GLY	CA-C-O	-5.32	115.00	122.51
1	jz	214	MET	CA-CB-CG	5.32	124.75	114.10
1	jI	152	ASP	CA-CB-CG	5.32	117.92	112.60
1	jK	17	PRO	N-CA-C	-5.32	107.21	113.86
1	1Y	74	ASN	O-C-N	-5.32	116.08	122.15
1	k4	41	SER	CA-C-O	5.32	126.19	120.55
1	k7	166	ASP	CB-CA-C	5.32	119.24	110.88
1	k8	154	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	kd	3	VAL	CA-C-O	-5.32	114.43	120.98
1	kd	52	LEU	O-C-N	-5.32	116.34	122.09
1	ke	142	VAL	N-CA-CB	-5.32	103.30	110.54
1	kq	14	ALA	CA-C-N	5.32	127.71	120.63
1	kq	14	ALA	C-N-CA	5.32	127.71	120.63
1	kq	77	ALA	N-CA-CB	-5.32	102.28	110.16
1	kR	198	CYS	CA-C-N	5.32	127.41	120.28
1	kR	198	CYS	C-N-CA	5.32	127.41	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25	216	THR	O-C-N	-5.32	115.52	122.39
1	l8	123	PRO	CA-C-O	-5.32	115.37	121.86
1	l9	206	GLY	O-C-N	-5.32	116.45	121.77
1	l9	222	GLY	O-C-N	-5.32	115.78	122.70
1	lb	110	THR	N-CA-CB	5.32	118.71	110.46
1	27	220	GLY	CA-C-N	5.32	127.38	120.56
1	27	220	GLY	C-N-CA	5.32	127.38	120.56
1	lz	69	LEU	CA-C-N	5.32	127.73	120.54
1	lz	69	LEU	C-N-CA	5.32	127.73	120.54
1	lz	131	LYS	N-CA-CB	5.32	117.73	110.01
1	lG	124	ILE	O-C-N	-5.32	117.31	121.46
1	lH	177	ALA	CB-CA-C	-5.32	100.55	109.65
1	lP	120	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	lQ	67	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	2k	68	MET	CA-C-N	5.32	127.85	120.29
1	2k	68	MET	C-N-CA	5.32	127.85	120.29
1	2R	114	GLN	CA-C-N	5.32	127.98	120.42
1	2R	114	GLN	C-N-CA	5.32	127.98	120.42
1	2R	184	TRP	N-CA-C	5.32	116.77	111.07
1	2U	155	GLN	CA-C-O	5.32	126.71	120.80
1	3f	171	THR	CA-C-O	5.32	126.18	120.70
1	3n	136	LEU	CA-C-O	-5.32	114.91	120.55
1	3o	39	MET	CA-C-N	5.32	127.41	120.28
1	3o	39	MET	C-N-CA	5.32	127.41	120.28
1	3F	128	GLU	CA-C-O	5.32	126.09	119.97
1	3K	84	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	3N	180	GLU	CB-CG-CD	5.32	121.65	112.60
1	3T	162	ARG	N-CA-C	5.32	118.56	111.75
1	4c	42	ALA	CA-C-N	5.32	128.40	120.31
1	4c	42	ALA	C-N-CA	5.32	128.40	120.31
1	4q	62	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	4E	197	ASP	CB-CA-C	5.32	119.63	110.79
1	4I	74	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	4N	132	ARG	CA-C-O	-5.32	115.23	120.82
1	4W	92	GLU	N-CA-CB	-5.32	102.96	110.04
1	50	197	ASP	CA-C-O	5.32	125.97	119.05
1	5c	117	TRP	CB-CG-CD2	-5.32	119.35	126.80
1	5f	84	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	5g	119	THR	CA-CB-CG2	5.32	119.55	110.50
1	5l	200	THR	O-C-N	-5.32	115.99	122.22
1	5q	6	LEU	O-C-N	-5.32	115.51	122.59
1	5s	47	ALA	O-C-N	-5.32	116.81	123.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	12	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	5v	51	ASP	CA-C-N	5.32	127.68	120.44
1	5v	51	ASP	C-N-CA	5.32	127.68	120.44
1	5w	130	TYR	CB-CG-CD2	-5.32	112.81	120.80
1	5B	227	LYS	O-C-N	-5.32	116.01	122.82
1	5U	229	ARG	N-CA-C	5.32	118.01	110.50
1	5W	46	GLY	O-C-N	-5.32	115.78	122.70
1	64	191	VAL	CA-C-N	5.32	127.36	120.44
1	64	191	VAL	C-N-CA	5.32	127.36	120.44
1	6a	63	GLN	CA-CB-CG	-5.32	103.45	114.10
1	6f	166	ASP	CA-C-N	5.32	127.36	120.44
1	6f	166	ASP	C-N-CA	5.32	127.36	120.44
1	6o	38	PRO	N-CA-C	-5.32	106.27	113.40
1	6p	81	ASP	O-C-N	-5.32	116.48	122.12
1	6y	173	ARG	N-CA-C	5.32	116.77	111.07
1	6z	76	GLU	CA-C-N	5.32	127.41	120.28
1	6z	76	GLU	C-N-CA	5.32	127.41	120.28
1	6A	12	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	6D	149	SER	O-C-N	-5.32	117.10	123.06
1	6G	173	ARG	CA-C-N	5.32	127.41	120.28
1	6G	173	ARG	C-N-CA	5.32	127.41	120.28
1	6H	150	ILE	N-CA-CB	5.32	118.90	110.54
1	6R	196	PRO	N-CA-CB	5.32	108.95	103.15
1	73	207	PRO	N-CA-CB	5.32	108.84	103.25
1	74	105	ALA	O-C-N	-5.32	115.52	122.39
1	7b	137	GLY	CA-C-N	5.32	127.85	120.29
1	7b	137	GLY	C-N-CA	5.32	127.85	120.29
1	7h	221	VAL	CA-C-N	5.32	125.16	120.10
1	7h	221	VAL	C-N-CA	5.32	125.16	120.10
1	7j	204	ALA	CA-C-N	5.32	127.41	120.28
1	7j	204	ALA	C-N-CA	5.32	127.41	120.28
1	7u	40	PHE	CB-CG-CD2	5.32	129.75	120.70
1	7y	152	ASP	N-CA-C	-5.32	106.37	112.92
1	7B	93	PRO	N-CA-C	5.32	123.44	112.47
1	7C	70	LYS	CA-C-O	5.32	126.06	120.42
1	7F	182	LYS	CA-C-N	5.32	127.67	120.38
1	7F	182	LYS	C-N-CA	5.32	127.67	120.38
1	7N	172	LEU	O-C-N	-5.32	115.30	122.43
1	7Q	83	LEU	CA-C-O	-5.32	115.23	120.82
1	7S	77	ALA	N-CA-C	5.32	116.77	111.07
1	8c	16	SER	CA-C-O	-5.32	115.24	120.19
1	8e	123	PRO	N-CA-CB	-5.32	98.57	103.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	181	VAL	N-CA-C	5.32	115.53	110.42
1	8w	21	ASN	N-CA-C	5.32	116.77	110.97
1	98	73	ILE	N-CA-C	5.32	116.05	110.62
1	9g	64	ALA	N-CA-C	5.32	116.77	111.07
1	9l	120	HIS	N-CA-C	5.32	117.56	110.53
1	9r	34	PRO	CB-CA-C	5.32	121.90	112.64
1	9w	80	TRP	CA-C-O	-5.32	115.22	120.70
1	9E	139	ASN	CB-CG-ND2	5.32	124.38	116.40
1	9E	163	ASP	N-CA-C	5.32	117.16	111.36
1	9I	118	MET	O-C-N	-5.32	115.30	122.43
1	Z	19	THR	N-CA-C	5.32	116.77	111.07
1	a4	200	THR	CA-C-O	5.32	126.19	120.55
1	a5	82	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	a8	217	ALA	O-C-N	-5.32	116.45	122.68
1	10	82	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	ab	22	ALA	CA-C-N	5.32	127.41	120.28
1	ab	22	ALA	C-N-CA	5.32	127.41	120.28
1	ab	198	CYS	CA-C-O	5.32	126.41	120.82
1	ai	190	LEU	CA-C-N	5.32	129.03	120.30
1	ai	190	LEU	C-N-CA	5.32	129.03	120.30
1	ak	161	PHE	N-CA-C	5.32	117.08	111.28
1	ao	99	PRO	N-CA-C	5.32	119.55	111.19
1	at	224	PRO	CB-CA-C	5.32	117.99	111.12
1	aF	144	MET	N-CA-C	5.32	117.99	111.82
1	aG	76	GLU	O-C-N	-5.32	116.08	122.15
1	aH	140	LYS	CA-C-N	5.32	127.37	120.56
1	aH	140	LYS	C-N-CA	5.32	127.37	120.56
1	aH	226	HIS	CB-CG-CD2	-5.32	124.28	131.20
1	b2	47	ALA	N-CA-C	5.32	117.95	110.23
1	b3	31	ALA	CA-C-N	5.32	130.07	122.72
1	b3	31	ALA	C-N-CA	5.32	130.07	122.72
1	be	12	HIS	N-CA-CB	5.32	117.91	109.71
1	bh	12	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	17	140	LYS	CA-C-N	5.32	127.37	120.56
1	17	140	LYS	C-N-CA	5.32	127.37	120.56
1	bi	136	LEU	CA-C-N	5.32	125.85	119.94
1	bi	136	LEU	C-N-CA	5.32	125.85	119.94
1	bq	100	ARG	O-C-N	-5.32	116.23	123.10
1	by	229	ARG	NH1-CZ-NH2	5.32	126.22	119.30
1	bH	9	GLN	N-CA-C	5.32	117.33	108.02
1	bJ	171	THR	CA-CB-OG1	-5.32	101.61	109.60
1	bK	119	THR	CA-CB-OG1	5.32	117.59	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	216	THR	CA-C-N	5.32	129.11	121.50
1	bP	216	THR	C-N-CA	5.32	129.11	121.50
1	bQ	41	SER	CA-C-N	5.32	127.73	120.54
1	bQ	41	SER	C-N-CA	5.32	127.73	120.54
1	bY	21	ASN	CA-CB-CG	5.32	117.92	112.60
1	c1	3	VAL	CA-C-N	5.32	129.68	122.07
1	c1	3	VAL	C-N-CA	5.32	129.68	122.07
1	c1	72	THR	CA-CB-OG1	5.32	117.58	109.60
1	c6	40	PHE	N-CA-C	-5.32	105.56	111.36
1	ce	159	GLU	CB-CA-C	-5.32	101.28	108.68
1	cA	75	GLU	CA-CB-CG	5.32	124.75	114.10
1	cM	60	GLY	CA-C-N	5.32	127.98	121.06
1	cM	60	GLY	C-N-CA	5.32	127.98	121.06
1	cU	200	THR	CB-CA-C	-5.32	101.80	110.85
1	cV	98	GLU	N-CA-CB	5.32	116.93	110.17
1	cV	208	ALA	CA-C-N	5.32	128.41	120.90
1	cV	208	ALA	C-N-CA	5.32	128.41	120.90
1	cV	224	PRO	CA-C-N	5.32	126.98	120.22
1	cV	224	PRO	C-N-CA	5.32	126.98	120.22
1	d0	90	PRO	N-CA-C	5.32	123.44	112.47
1	d7	112	GLN	CB-CA-C	-5.32	101.63	110.68
1	da	92	GLU	N-CA-C	5.32	117.87	110.20
1	1k	5	ASN	CA-C-O	5.32	125.83	119.60
1	dw	22	ALA	CA-C-N	5.32	127.73	120.54
1	dw	22	ALA	C-N-CA	5.32	127.73	120.54
1	dC	83	LEU	CB-CA-C	-5.32	101.95	110.79
1	dG	181	VAL	N-CA-CB	5.32	116.78	110.55
1	dP	135	ILE	CA-C-O	-5.32	115.21	120.85
1	dS	201	ILE	CB-CA-C	-5.32	104.95	112.14
1	e5	143	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	1p	167	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	eh	21	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	er	118	MET	N-CA-C	5.32	117.08	111.28
1	ez	188	THR	CA-CB-CG2	5.32	119.55	110.50
1	eB	128	GLU	O-C-N	-5.32	116.34	122.09
1	eI	132	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	eS	115	ILE	O-C-N	-5.32	116.71	121.87
1	eZ	28	GLU	CA-C-N	5.32	127.85	120.29
1	eZ	28	GLU	C-N-CA	5.32	127.85	120.29
1	f0	9	GLN	N-CA-C	5.32	118.00	111.82
1	f3	71	GLU	O-C-N	-5.32	116.48	122.12
1	f7	63	GLN	O-C-N	-5.32	116.59	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ff	159	GLU	CA-C-O	-5.32	115.38	119.32
1	fm	120	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	fn	219	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	fv	22	ALA	O-C-N	-5.32	116.48	122.12
1	fz	102	SER	N-CA-C	5.32	117.08	111.28
1	fB	15	ILE	N-CA-C	5.32	117.12	109.51
1	fG	10	MET	CA-C-N	5.32	129.25	121.80
1	fG	10	MET	C-N-CA	5.32	129.25	121.80
1	1z	80	TRP	N-CA-C	5.32	117.08	111.28
1	fQ	141	ILE	CB-CG1-CD1	-5.32	102.62	113.80
1	fQ	168	PHE	CA-C-N	5.32	128.40	120.31
1	fQ	168	PHE	C-N-CA	5.32	128.40	120.31
1	fY	81	ASP	CA-C-N	5.32	127.85	120.29
1	fY	81	ASP	C-N-CA	5.32	127.85	120.29
1	q	221	VAL	O-C-N	-5.32	117.24	122.67
1	s	167	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	y	110	THR	O-C-N	-5.32	116.26	122.81
1	E	193	ASN	CA-CB-CG	-5.32	107.28	112.60
1	I	18	ARG	CG-CD-NE	-5.32	100.29	112.00
1	K	178	SER	CB-CA-C	-5.32	99.74	109.54
1	S	83	LEU	N-CA-CB	5.32	117.95	110.12
1	V	140	LYS	CB-CA-C	-5.32	102.52	110.88
1	X	187	GLU	CA-C-N	5.32	130.67	122.42
1	X	187	GLU	C-N-CA	5.32	130.67	122.42
1	6	167	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	gy	9	GLN	O-C-N	-5.32	115.92	122.25
1	gy	176	GLN	N-CA-CB	-5.32	102.57	110.61
1	gF	24	VAL	N-CA-CB	5.32	116.66	110.65
1	gJ	100	ARG	N-CA-C	5.32	117.40	110.53
1	gK	136	LEU	CA-C-N	5.32	130.10	120.79
1	gK	136	LEU	C-N-CA	5.32	130.10	120.79
1	gQ	21	ASN	N-CA-CB	5.32	117.87	109.94
1	hf	81	ASP	CA-C-N	5.32	127.72	120.54
1	hf	81	ASP	C-N-CA	5.32	127.72	120.54
1	hf	126	VAL	CA-C-N	5.32	125.74	119.94
1	hf	126	VAL	C-N-CA	5.32	125.74	119.94
1	hi	40	PHE	N-CA-C	5.32	117.08	111.28
1	hs	199	LYS	O-C-N	-5.32	116.48	122.12
1	hw	97	ARG	CA-C-N	5.32	127.79	120.39
1	hw	97	ARG	C-N-CA	5.32	127.79	120.39
1	hx	213	GLU	N-CA-C	5.32	117.50	111.11
1	ih	67	GLN	N-CA-C	5.32	117.99	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ii	149	SER	N-CA-CB	5.32	118.85	110.23
1	ik	182	LYS	N-CA-C	5.32	117.08	111.28
1	1R	133	TRP	CA-CB-CG	5.32	123.71	113.60
1	iY	150	ILE	CA-CB-CG1	5.32	119.45	110.40
1	1V	29	GLU	O-C-N	-5.32	115.17	122.46
1	1W	78	ALA	CB-CA-C	-5.32	101.80	110.85
1	jE	173	ARG	CA-C-O	5.32	125.72	119.28
1	1Y	80	TRP	CA-C-N	5.32	127.85	120.29
1	1Y	80	TRP	C-N-CA	5.32	127.85	120.29
1	k0	176	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	k9	85	PRO	O-C-N	-5.32	116.13	122.89
1	kd	229	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	ke	105	ALA	CA-C-N	5.32	129.60	121.51
1	ke	105	ALA	C-N-CA	5.32	129.60	121.51
1	ke	114	GLN	N-CA-C	5.32	117.08	111.28
1	kg	124	ILE	N-CA-C	5.32	112.82	107.55
1	kQ	120	HIS	CA-CB-CG	5.32	119.12	113.80
1	lh	115	ILE	O-C-N	-5.32	116.69	121.91
1	2c	170	LYS	N-CA-C	5.32	117.50	111.11
1	2d	19	THR	N-CA-CB	5.32	117.73	110.01
1	2r	106	GLY	O-C-N	-5.32	116.05	122.38
1	2B	156	GLY	CA-C-N	5.32	126.49	119.84
1	2B	156	GLY	C-N-CA	5.32	126.49	119.84
1	2U	61	GLY	CA-C-N	5.32	130.29	122.63
1	2U	61	GLY	C-N-CA	5.32	130.29	122.63
1	2V	195	ASN	CA-C-O	-5.32	114.68	120.69
1	31	37	ILE	CA-C-N	-5.32	113.19	119.84
1	31	37	ILE	C-N-CA	-5.32	113.19	119.84
1	3l	213	GLU	O-C-N	-5.32	116.08	122.15
1	3n	62	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	4e	58	THR	O-C-N	-5.32	115.30	122.43
1	4t	148	THR	CA-CB-OG1	5.32	117.58	109.60
1	4v	111	LEU	N-CA-C	5.32	117.08	111.28
1	4M	205	LEU	N-CA-C	5.32	117.08	111.28
1	4N	188	THR	OG1-CB-CG2	-5.32	98.66	109.30
1	5o	161	PHE	CA-C-O	-5.32	114.78	120.42
1	6v	74	ASN	CB-CA-C	-5.32	101.80	110.85
1	6A	97	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	6B	62	HIS	ND1-CG-CD2	5.32	111.42	106.10
1	6B	73	ILE	N-CA-C	5.32	116.09	110.72
1	6R	97	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	6T	175	GLU	O-C-N	-5.32	116.58	122.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	122	PRO	CA-C-N	5.32	125.33	119.90
1	7t	122	PRO	C-N-CA	5.32	125.33	119.90
1	7z	93	PRO	N-CD-CG	5.32	111.18	103.20
1	7X	51	ASP	CA-CB-CG	5.32	117.92	112.60
1	84	175	GLU	N-CA-CB	-5.32	102.51	110.17
1	8g	166	ASP	CA-C-N	5.32	127.72	120.54
1	8g	166	ASP	C-N-CA	5.32	127.72	120.54
1	8m	218	CYS	CA-C-N	5.32	129.11	121.50
1	8m	218	CYS	C-N-CA	5.32	129.11	121.50
1	8w	44	SER	N-CA-CB	5.32	118.46	110.53
1	8H	15	ILE	CA-C-N	5.32	127.89	120.65
1	8H	15	ILE	C-N-CA	5.32	127.89	120.65
1	8X	34	PRO	N-CA-C	5.32	123.43	112.47
1	9b	59	VAL	N-CA-CB	-5.32	103.00	110.13
1	9d	99	PRO	CA-C-O	5.32	127.10	121.03
1	9j	56	LEU	O-C-N	-5.32	116.08	122.15
1	9p	119	THR	N-CA-C	5.32	119.75	112.88
1	9z	50	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	9z	145	TYR	N-CA-CB	5.32	118.55	110.14
1	ag	65	ALA	CB-CA-C	5.32	119.23	110.88
1	ak	191	VAL	CA-CB-CG2	5.32	119.45	110.40
1	at	133	TRP	CA-C-N	5.32	127.27	120.56
1	at	133	TRP	C-N-CA	5.32	127.27	120.56
1	az	124	ILE	O-C-N	-5.32	115.03	121.10
1	aC	86	VAL	N-CA-C	5.32	115.25	108.12
1	aF	9	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	bb	188	THR	CA-CB-OG1	5.32	117.58	109.60
1	17	89	GLY	CA-C-N	5.32	125.32	119.89
1	17	89	GLY	C-N-CA	5.32	125.32	119.89
1	bR	89	GLY	CA-C-N	5.32	125.33	119.90
1	bR	89	GLY	C-N-CA	5.32	125.33	119.90
1	bV	5	ASN	CA-CB-CG	-5.32	107.28	112.60
1	bV	184	TRP	CG-CD2-CE3	-5.32	128.58	133.90
1	bX	134	ILE	CA-C-N	5.32	127.75	120.46
1	bX	134	ILE	C-N-CA	5.32	127.75	120.46
1	cz	196	PRO	N-CA-CB	-5.32	97.48	103.44
1	cz	230	VAL	N-CA-CB	5.32	120.01	111.23
1	cX	48	THR	N-CA-CB	5.32	116.47	109.55
1	1k	178	SER	CA-C-N	5.32	127.41	120.28
1	1k	178	SER	C-N-CA	5.32	127.41	120.28
1	dx	83	LEU	N-CA-C	5.32	117.83	111.71
1	dX	120	HIS	CA-CB-CG	5.32	119.12	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	87	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	e8	143	ARG	CB-CG-CD	5.32	123.54	111.30
1	em	141	ILE	CA-C-N	5.32	127.47	120.60
1	em	141	ILE	C-N-CA	5.32	127.47	120.60
1	ez	149	SER	CA-C-O	5.32	126.71	120.80
1	eQ	27	VAL	N-CA-C	5.32	116.05	110.62
1	fc	81	ASP	CB-CA-C	5.32	121.24	110.38
1	1y	100	ARG	N-CA-C	-5.32	102.58	110.46
1	fI	4	GLN	O-C-N	-5.32	116.32	122.87
1	fQ	223	GLY	CA-C-N	5.32	126.49	119.84
1	fQ	223	GLY	C-N-CA	5.32	126.49	119.84
1	3	73	ILE	N-CA-CB	-5.32	104.32	110.55
1	E	83	LEU	O-C-N	-5.32	116.48	122.12
1	O	84	HIS	N-CA-C	5.32	120.45	109.11
1	U	62	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	U	84	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	g9	174	ALA	N-CA-C	5.32	116.76	111.07
1	gg	134	ILE	CA-C-N	5.32	127.75	120.46
1	gg	134	ILE	C-N-CA	5.32	127.75	120.46
1	gq	50	GLN	CA-C-N	5.32	128.40	120.31
1	gq	50	GLN	C-N-CA	5.32	128.40	120.31
1	1D	12	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	gx	16	SER	O-C-N	-5.32	117.02	121.38
1	gA	212	GLU	CA-CB-CG	-5.32	103.46	114.10
1	gB	230	VAL	CA-C-N	5.32	131.28	121.70
1	gB	230	VAL	C-N-CA	5.32	131.28	121.70
1	gM	98	GLU	CB-CG-CD	-5.32	103.56	112.60
1	gO	190	LEU	N-CA-C	5.32	117.08	111.28
1	gQ	124	ILE	N-CA-CB	5.32	118.09	111.39
1	gS	117	TRP	O-C-N	-5.32	116.56	122.09
1	gS	160	PRO	CA-C-N	5.32	127.36	120.44
1	gS	160	PRO	C-N-CA	5.32	127.36	120.44
1	gW	228	ALA	CA-C-N	5.32	130.59	122.29
1	gW	228	ALA	C-N-CA	5.32	130.59	122.29
1	h4	228	ALA	CA-C-O	-5.32	114.91	120.55
1	h5	138	LEU	CA-C-N	5.32	127.36	120.44
1	h5	138	LEU	C-N-CA	5.32	127.36	120.44
1	h6	185	MET	N-CA-C	5.32	117.08	111.28
1	h7	143	ARG	CA-C-N	5.32	129.60	120.72
1	h7	143	ARG	C-N-CA	5.32	129.60	120.72
1	hc	229	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	hn	210	THR	CA-C-O	5.32	127.19	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hI	180	GLU	CB-CA-C	-5.32	101.96	110.79
1	hT	102	SER	CA-C-O	5.32	125.92	119.38
1	hT	135	ILE	CA-C-O	5.32	126.58	121.05
1	hU	48	THR	N-CA-C	-5.32	100.88	109.82
1	hZ	25	LYS	N-CA-CB	5.32	117.94	110.12
1	i3	131	LYS	N-CA-C	5.32	117.08	111.28
1	1N	66	MET	CA-C-O	-5.32	114.91	120.55
1	i7	62	HIS	ND1-CG-CD2	5.32	111.42	106.10
1	ie	97	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	ie	197	ASP	N-CA-CB	5.32	117.78	110.07
1	im	4	GLN	N-CA-C	5.32	116.61	108.42
1	iB	212	GLU	CA-C-N	5.32	127.36	120.44
1	iB	212	GLU	C-N-CA	5.32	127.36	120.44
1	1R	167	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	iJ	227	LYS	CA-C-O	5.32	125.51	119.18
1	iR	74	ASN	N-CA-C	5.32	117.08	111.28
1	iT	220	GLY	CA-C-N	5.32	127.63	120.50
1	iT	220	GLY	C-N-CA	5.32	127.63	120.50
1	j1	82	ARG	NH1-CZ-NH2	-5.32	112.38	119.30
1	ja	174	ALA	N-CA-CB	-5.32	101.56	110.39
1	jc	168	PHE	O-C-N	-5.32	116.08	122.15
1	jd	51	ASP	O-C-N	-5.32	116.59	122.07
1	jd	180	GLU	CA-C-O	5.32	126.19	120.55
1	ji	93	PRO	CB-CA-C	5.32	118.20	111.39
1	jl	177	ALA	N-CA-C	5.32	122.13	110.80
1	jM	27	VAL	CA-C-N	5.32	127.72	120.54
1	jM	27	VAL	C-N-CA	5.32	127.72	120.54
1	jM	117	TRP	CB-CA-C	-5.32	101.81	110.85
1	jO	204	ALA	CA-C-O	-5.32	114.91	120.55
1	jP	74	ASN	N-CA-C	5.32	117.08	111.28
1	k7	229	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	k9	9	GLN	N-CA-C	5.32	116.81	109.15
1	ke	167	ARG	N-CA-CB	5.32	117.94	110.12
1	km	76	GLU	N-CA-C	5.32	117.16	111.36
1	kr	215	MET	CG-SD-CE	-5.32	89.19	100.90
1	ks	130	TYR	N-CA-CB	-5.32	102.30	110.12
1	ku	176	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	kw	45	GLU	N-CA-C	5.32	117.83	111.71
1	kB	29	GLU	N-CA-C	5.32	117.89	111.40
1	kB	198	CYS	N-CA-C	5.32	117.08	111.28
1	23	201	ILE	CB-CA-C	-5.32	104.96	112.14
1	kH	190	LEU	CA-C-O	5.32	125.92	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	20	LEU	CA-C-N	5.32	127.41	120.28
1	kL	20	LEU	C-N-CA	5.32	127.41	120.28
1	kN	44	SER	CB-CA-C	-5.32	101.73	110.72
1	24	159	GLU	CB-CA-C	5.32	118.29	109.56
1	l8	113	GLU	N-CA-C	5.32	117.49	111.11
1	lg	152	ASP	CA-C-N	5.32	129.25	121.80
1	lg	152	ASP	C-N-CA	5.32	129.25	121.80
1	lh	86	VAL	N-CA-C	5.32	116.44	109.58
1	lD	173	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	lG	86	VAL	O-C-N	-5.32	116.81	122.61
1	lL	139	ASN	N-CA-C	5.32	117.99	111.82
1	lO	100	ARG	N-CA-C	-5.32	103.67	110.53
1	lP	167	ARG	CA-C-N	5.32	127.67	120.65
1	lP	167	ARG	C-N-CA	5.32	127.67	120.65
1	2d	57	ASN	CA-CB-CG	5.32	117.92	112.60
1	2f	166	ASP	N-CA-CB	-5.32	102.30	110.12
1	2s	73	ILE	N-CA-C	-5.32	105.19	110.62
1	2v	211	LEU	O-C-N	-5.32	116.48	122.12
1	2R	225	GLY	CA-C-N	5.32	130.87	122.78
1	2R	225	GLY	C-N-CA	5.32	130.87	122.78
1	2V	144	MET	CB-CA-C	5.32	117.11	109.71
1	2Y	180	GLU	CA-C-O	5.32	126.09	119.97
1	30	63	GLN	CA-C-O	-5.32	115.23	120.82
1	34	132	ARG	N-CA-C	-5.32	105.56	111.36
1	3s	27	VAL	O-C-N	5.32	127.81	121.80
1	3s	66	MET	N-CA-C	5.32	116.76	111.07
1	3u	190	LEU	CD1-CG-CD2	-5.32	99.09	110.80
1	3A	21	ASN	N-CA-C	5.32	116.76	111.07
1	3A	120	HIS	CA-CB-CG	5.32	119.12	113.80
1	3C	132	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	3I	217	ALA	CA-C-O	-5.32	115.91	121.55
1	3Q	153	ILE	CB-CA-C	-5.32	107.26	113.22
1	3X	178	SER	N-CA-CB	5.32	117.86	109.83
1	42	56	LEU	O-C-N	5.32	127.55	122.07
1	43	151	LEU	N-CA-C	5.32	117.99	111.82
1	49	181	VAL	CA-C-O	-5.32	115.21	120.85
1	4f	195	ASN	CA-C-N	5.32	124.83	119.19
1	4f	195	ASN	C-N-CA	5.32	124.83	119.19
1	4u	149	SER	CA-C-N	5.32	127.75	120.46
1	4u	149	SER	C-N-CA	5.32	127.75	120.46
1	4w	157	PRO	N-CA-C	5.32	120.53	113.40
1	4D	152	ASP	N-CA-CB	5.32	117.90	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	185	MET	CA-C-O	-5.32	114.91	120.55
1	4P	65	ALA	N-CA-C	5.32	117.08	111.28
1	4Q	166	ASP	CA-CB-CG	5.32	117.92	112.60
1	4T	83	LEU	CA-C-N	5.32	128.97	122.42
1	4T	83	LEU	C-N-CA	5.32	128.97	122.42
1	4T	170	LYS	N-CA-C	5.32	117.77	111.33
1	4V	63	GLN	N-CA-C	5.32	117.08	111.28
1	50	151	LEU	CA-C-N	5.32	127.41	120.28
1	50	151	LEU	C-N-CA	5.32	127.41	120.28
1	5u	229	ARG	NE-CZ-NH2	-5.32	114.41	119.20
1	5w	80	TRP	CE2-CD2-CE3	-5.32	113.48	118.80
1	5B	90	PRO	N-CA-CB	5.32	108.84	103.25
1	5D	84	HIS	CB-CG-CD2	-5.32	124.28	131.20
1	5O	84	HIS	CA-C-O	-5.32	115.43	121.28
1	5P	127	GLY	N-CA-C	5.32	119.58	112.77
1	5Z	159	GLU	CA-C-N	5.32	125.26	119.78
1	5Z	159	GLU	C-N-CA	5.32	125.26	119.78
1	62	99	PRO	CA-C-N	5.32	132.83	121.45
1	62	99	PRO	C-N-CA	5.32	132.83	121.45
1	62	168	PHE	O-C-N	-5.32	116.59	122.07
1	6a	12	HIS	CA-CB-CG	-5.32	108.48	113.80
1	6c	196	PRO	O-C-N	-5.32	115.46	122.64
1	6g	138	LEU	CA-C-N	5.32	127.67	120.38
1	6g	138	LEU	C-N-CA	5.32	127.67	120.38
1	6j	108	THR	N-CA-C	-5.32	105.63	113.61
1	6j	154	ARG	CA-C-N	5.32	128.26	120.71
1	6j	154	ARG	C-N-CA	5.32	128.26	120.71
1	6l	217	ALA	N-CA-CB	5.32	118.85	110.23
1	6m	123	PRO	O-C-N	-5.32	116.41	123.01
1	6z	13	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	6F	143	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	6H	69	LEU	CA-C-N	5.32	127.84	120.29
1	6H	69	LEU	C-N-CA	5.32	127.84	120.29
1	6K	4	GLN	N-CA-C	5.32	118.00	110.50
1	6M	12	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	6S	127	GLY	CA-C-N	5.32	127.41	120.28
1	6S	127	GLY	C-N-CA	5.32	127.41	120.28
1	6U	209	ALA	CA-C-O	5.32	127.04	121.19
1	6V	48	THR	N-CA-C	5.32	116.25	110.13
1	7j	140	LYS	CA-C-N	5.32	127.75	120.46
1	7j	140	LYS	C-N-CA	5.32	127.75	120.46
1	7q	183	ASN	N-CA-C	-5.32	105.39	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	80	TRP	CB-CG-CD1	-5.32	118.92	126.90
1	81	12	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	84	127	GLY	CA-C-N	5.32	127.41	120.28
1	84	127	GLY	C-N-CA	5.32	127.41	120.28
1	85	226	HIS	CB-CG-ND1	5.32	130.68	122.70
1	9e	216	THR	O-C-N	-5.32	114.85	122.41
1	9j	168	PHE	CA-C-O	-5.32	115.41	121.00
1	9m	33	SER	CA-C-N	5.32	125.64	119.47
1	9m	33	SER	C-N-CA	5.32	125.64	119.47
1	9r	24	VAL	CA-C-N	5.32	127.41	120.28
1	9r	24	VAL	C-N-CA	5.32	127.41	120.28
1	9w	140	LYS	CA-C-N	5.32	128.88	120.47
1	9w	140	LYS	C-N-CA	5.32	128.88	120.47
1	9S	208	ALA	N-CA-C	-5.32	106.81	113.72
1	9W	130	TYR	CA-C-N	5.32	127.41	120.28
1	9W	130	TYR	C-N-CA	5.32	127.41	120.28
1	9Y	152	ASP	N-CA-C	-5.32	106.84	113.38
1	9Z	132	ARG	O-C-N	-5.32	116.48	122.12
1	a3	167	ARG	NH1-CZ-NH2	-5.32	112.38	119.30
1	a3	201	ILE	N-CA-C	5.32	115.53	110.42
1	at	44	SER	N-CA-C	5.32	119.76	113.16
1	ax	84	HIS	CB-CG-CD2	-5.32	124.28	131.20
1	aK	72	THR	CA-C-N	5.32	127.75	120.46
1	aK	72	THR	C-N-CA	5.32	127.75	120.46
1	aK	191	VAL	CA-C-O	-5.32	115.21	120.85
1	aV	134	ILE	O-C-N	-5.32	116.69	121.91
1	bb	199	LYS	N-CA-C	5.32	117.83	111.71
1	bh	196	PRO	N-CA-C	5.32	123.43	112.47
1	bk	20	LEU	N-CA-CB	5.32	117.94	110.12
1	bx	21	ASN	O-C-N	-5.32	116.48	122.12
1	bT	205	LEU	CA-C-O	5.32	125.72	119.28
1	c7	87	HIS	O-C-N	-5.32	116.95	122.96
1	cq	5	ASN	O-C-N	-5.32	115.19	121.79
1	cr	184	TRP	CG-CD2-CE3	-5.32	128.58	133.90
1	cv	82	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	cG	82	ARG	CA-C-N	5.32	128.40	120.31
1	cG	82	ARG	C-N-CA	5.32	128.40	120.31
1	cU	171	THR	CA-CB-OG1	5.32	117.58	109.60
1	cW	97	ARG	NH1-CZ-NH2	5.32	126.22	119.30
1	d1	86	VAL	CA-CB-CG2	-5.32	101.35	110.40
1	d2	167	ARG	CA-C-N	5.32	127.36	120.44
1	d2	167	ARG	C-N-CA	5.32	127.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d8	41	SER	CA-C-N	5.32	127.72	120.54
1	d8	41	SER	C-N-CA	5.32	127.72	120.54
1	d8	125	PRO	CA-C-O	-5.32	110.92	120.60
1	dg	156	GLY	CA-C-N	5.32	126.49	119.84
1	dg	156	GLY	C-N-CA	5.32	126.49	119.84
1	di	76	GLU	CA-C-N	5.32	127.41	120.28
1	di	76	GLU	C-N-CA	5.32	127.41	120.28
1	dp	48	THR	N-CA-C	5.32	117.42	110.08
1	dG	72	THR	CA-C-N	5.32	127.75	120.46
1	dG	72	THR	C-N-CA	5.32	127.75	120.46
1	dH	29	GLU	N-CA-C	5.32	117.08	111.28
1	dH	74	ASN	CA-CB-CG	-5.32	107.28	112.60
1	1m	65	ALA	N-CA-C	5.32	117.08	111.28
1	dM	10	MET	N-CA-CB	5.32	118.15	109.69
1	dV	117	TRP	CB-CG-CD2	-5.32	119.35	126.80
1	e5	84	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	ec	10	MET	CA-C-N	5.32	127.63	120.50
1	ec	10	MET	C-N-CA	5.32	127.63	120.50
1	ef	117	TRP	CE2-CD2-CE3	5.32	124.12	118.80
1	et	161	PHE	CA-C-N	5.32	127.41	120.28
1	et	161	PHE	C-N-CA	5.32	127.41	120.28
1	1r	16	SER	CB-CA-C	-5.32	101.28	108.68
1	ex	36	VAL	O-C-N	-5.32	115.08	122.05
1	eG	63	GLN	CB-CA-C	5.32	120.88	110.67
1	f0	18	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	f5	160	PRO	N-CA-C	-5.32	107.09	114.27
1	f9	167	ARG	N-CA-CB	5.32	117.94	110.12
1	fa	73	ILE	O-C-N	-5.32	116.71	121.87
1	fa	154	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	fh	100	ARG	CB-CG-CD	5.32	123.54	111.30
1	fi	173	ARG	CG-CD-NE	-5.32	100.30	112.00
1	fk	111	LEU	O-C-N	5.32	127.62	122.09
1	fp	197	ASP	CA-CB-CG	5.32	117.92	112.60
1	fr	22	ALA	N-CA-CB	-5.32	102.30	110.12
1	fz	179	GLN	CA-C-O	5.32	126.38	120.63
1	fK	207	PRO	N-CA-CB	-5.32	98.21	102.36
1	g3	63	GLN	O-C-N	-5.32	116.48	122.12
1	g6	136	LEU	CA-C-N	5.32	125.85	119.94
1	g6	136	LEU	C-N-CA	5.32	125.85	119.94
1	1	76	GLU	O-C-N	-5.32	116.08	122.15
1	o	25	LYS	CA-C-O	-5.32	114.91	120.55
1	r	66	MET	CA-C-O	5.32	126.19	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	104	ILE	CA-C-O	-5.32	115.42	120.95
1	s	111	LEU	O-C-N	-5.32	116.48	122.12
1	u	96	MET	N-CA-C	5.32	118.15	110.28
1	L	108	THR	N-CA-CB	5.32	118.98	110.73
1	O	107	THR	N-CA-C	-5.32	106.47	113.12
1	gb	215	MET	N-CA-CB	-5.32	102.30	110.44
1	gk	195	ASN	CA-C-O	-5.32	114.68	120.69
1	gp	67	GLN	CA-CB-CG	5.32	124.74	114.10
1	gw	39	MET	N-CA-C	5.32	117.08	111.28
1	gB	41	SER	N-CA-CB	5.32	117.86	109.94
1	gU	165	VAL	CA-C-N	5.32	127.41	120.28
1	gU	165	VAL	C-N-CA	5.32	127.41	120.28
1	gW	194	ALA	N-CA-C	5.32	117.19	110.33
1	gZ	76	GLU	CB-CA-C	-5.32	101.81	110.85
1	hn	201	ILE	CA-C-O	-5.32	114.88	120.57
1	hr	120	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	hy	88	ALA	CA-C-O	5.32	127.04	121.19
1	hA	37	ILE	CB-CA-C	5.32	118.75	113.70
1	i3	116	GLY	N-CA-C	5.32	120.50	113.37
1	ia	163	ASP	CA-CB-CG	5.32	117.92	112.60
1	iq	229	ARG	N-CA-CB	5.32	121.42	111.53
1	ix	100	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	iA	119	THR	N-CA-CB	5.32	118.64	110.61
1	iD	116	GLY	CA-C-N	5.32	127.36	120.44
1	iD	116	GLY	C-N-CA	5.32	127.36	120.44
1	iS	183	ASN	CB-CG-OD1	-5.32	110.16	120.80
1	je	181	VAL	CG1-CB-CG2	-5.32	99.10	110.80
1	jl	180	GLU	N-CA-C	5.32	117.08	111.28
1	jt	135	ILE	N-CA-C	5.32	115.53	110.42
1	jB	129	ILE	N-CA-C	-5.32	105.66	110.82
1	jF	209	ALA	CA-C-O	-5.32	116.02	121.87
1	jU	97	ARG	N-CA-CB	5.32	118.53	110.45
1	k4	29	GLU	N-CA-C	5.32	117.16	111.36
1	k5	195	ASN	OD1-CG-ND2	5.32	127.92	122.60
1	ke	126	VAL	N-CA-C	5.32	117.74	111.09
1	kq	42	ALA	CA-C-O	5.32	126.41	120.82
1	kG	175	GLU	N-CA-C	5.32	117.19	110.33
1	kP	100	ARG	CB-CA-C	-5.32	100.96	111.60
1	kV	138	LEU	N-CA-C	5.32	117.77	111.33
1	l4	55	MET	CA-C-O	-5.32	115.21	120.90
1	lp	50	GLN	CA-C-N	5.32	127.35	120.44
1	lp	50	GLN	C-N-CA	5.32	127.35	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lu	2	ILE	CB-CG1-CD1	5.32	124.97	113.80
1	lO	107	THR	O-C-N	-5.32	116.09	122.15
1	2w	62	HIS	ND1-CG-CD2	5.32	111.42	106.10
1	2C	177	ALA	CA-C-O	5.32	127.19	121.44
1	2N	184	TRP	CG-CD2-CE3	-5.32	128.58	133.90
1	2W	108	THR	N-CA-CB	5.32	118.64	110.61
1	39	87	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	42	136	LEU	CA-C-N	5.32	125.84	119.94
1	42	136	LEU	C-N-CA	5.32	125.84	119.94
1	4b	189	LEU	O-C-N	5.32	127.62	122.09
1	4l	45	GLU	CA-C-O	5.32	126.88	120.92
1	4w	126	VAL	CA-C-O	5.32	126.48	120.95
1	4E	90	PRO	N-CA-C	5.32	119.93	111.26
1	4N	78	ALA	N-CA-C	5.32	116.88	111.14
1	4T	135	ILE	O-C-N	5.32	127.12	121.91
1	5x	18	ARG	O-C-N	-5.32	116.48	122.12
1	5y	195	ASN	CA-C-N	5.32	125.38	119.32
1	5y	195	ASN	C-N-CA	5.32	125.38	119.32
1	5D	145	TYR	N-CA-CB	-5.32	102.79	110.56
1	5J	59	VAL	CB-CA-C	-5.32	104.52	111.81
1	5P	114	GLN	CA-C-N	5.32	127.97	120.42
1	5P	114	GLN	C-N-CA	5.32	127.97	120.42
1	5R	147	PRO	O-C-N	-5.32	115.46	122.64
1	6a	129	ILE	CA-CB-CG2	5.32	119.54	110.50
1	6i	192	GLN	CA-C-O	-5.32	114.91	120.55
1	6m	208	ALA	N-CA-CB	-5.32	102.45	111.17
1	6n	191	VAL	N-CA-CB	-5.32	106.36	112.21
1	6G	191	VAL	CA-C-N	5.32	128.40	120.31
1	6G	191	VAL	C-N-CA	5.32	128.40	120.31
1	6I	53	ASN	N-CA-CB	5.32	117.94	110.12
1	6R	31	ALA	N-CA-C	5.32	122.13	110.80
1	6S	96	MET	CG-SD-CE	-5.32	89.20	100.90
1	7F	40	PHE	N-CA-C	5.32	117.08	111.28
1	7S	171	THR	O-C-N	-5.32	116.35	122.09
1	7U	125	PRO	CA-C-O	5.32	125.47	121.38
1	87	224	PRO	CA-C-N	5.32	128.14	120.11
1	87	224	PRO	C-N-CA	5.32	128.14	120.11
1	8l	87	HIS	O-C-N	-5.32	116.73	123.01
1	8o	120	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	8Q	19	THR	CA-C-N	5.32	127.72	120.54
1	8Q	19	THR	C-N-CA	5.32	127.72	120.54
1	8Q	47	ALA	N-CA-C	5.32	118.03	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8S	15	ILE	CA-C-N	5.32	128.04	120.49
1	8S	15	ILE	C-N-CA	5.32	128.04	120.49
1	8U	193	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	9f	28	GLU	CA-C-N	5.32	127.67	120.65
1	9f	28	GLU	C-N-CA	5.32	127.67	120.65
1	9p	83	LEU	O-C-N	-5.32	115.81	122.35
1	9r	3	VAL	N-CA-CB	-5.32	104.72	111.64
1	9N	204	ALA	CA-C-O	-5.32	115.23	120.82
1	9P	229	ARG	N-CA-C	-5.32	106.02	112.88
1	a4	155	GLN	OE1-CD-NE2	5.32	127.92	122.60
1	ab	86	VAL	CA-C-N	5.32	128.42	120.87
1	ab	86	VAL	C-N-CA	5.32	128.42	120.87
1	ba	60	GLY	CA-C-N	5.32	127.97	121.06
1	ba	60	GLY	C-N-CA	5.32	127.97	121.06
1	bv	71	GLU	CB-CG-CD	5.32	121.64	112.60
1	bK	41	SER	N-CA-C	5.32	117.16	111.36
1	bP	106	GLY	CA-C-O	5.32	125.03	119.07
1	ch	99	PRO	CA-C-O	-5.32	115.44	121.98
1	1e	83	LEU	N-CA-C	5.32	117.08	111.28
1	cL	2	ILE	CA-C-N	5.32	129.78	123.19
1	cL	2	ILE	C-N-CA	5.32	129.78	123.19
1	cN	118	MET	N-CA-C	5.32	117.99	111.82
1	cV	127	GLY	CA-C-O	5.32	125.73	119.45
1	d2	184	TRP	CD2-CE2-CZ2	-5.32	117.08	122.40
1	di	164	TYR	N-CA-C	5.32	117.08	111.28
1	dn	67	GLN	CG-CD-NE2	5.32	124.38	116.40
1	dG	117	TRP	CA-C-O	5.32	126.11	120.10
1	dS	69	LEU	N-CA-C	5.32	117.77	111.33
1	e2	167	ARG	O-C-N	-5.32	116.48	122.12
1	e4	41	SER	CA-C-N	5.32	127.35	120.44
1	e4	41	SER	C-N-CA	5.32	127.35	120.44
1	eb	132	ARG	NH1-CZ-NH2	5.32	126.22	119.30
1	eg	102	SER	N-CA-C	5.32	117.83	111.71
1	em	202	LEU	N-CA-C	5.32	116.76	111.07
1	eA	152	ASP	CA-CB-CG	5.32	117.92	112.60
1	eP	216	THR	CA-CB-OG1	-5.32	101.62	109.60
1	fk	226	HIS	CA-CB-CG	5.32	119.12	113.80
1	fn	61	GLY	CA-C-N	5.32	131.70	121.54
1	fn	61	GLY	C-N-CA	5.32	131.70	121.54
1	fv	49	PRO	CA-C-N	5.32	127.41	120.28
1	fv	49	PRO	C-N-CA	5.32	127.41	120.28
1	g3	18	ARG	CA-C-N	5.32	127.36	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	18	ARG	C-N-CA	5.32	127.36	120.44
1	g5	104	ILE	N-CA-C	5.32	115.53	110.42
1	e	84	HIS	CB-CA-C	-5.32	104.27	110.17
1	A	120	HIS	CB-CG-CD2	-5.32	124.28	131.20
1	g9	24	VAL	N-CA-C	5.32	115.52	110.42
1	gj	9	GLN	O-C-N	-5.32	116.98	122.94
1	gu	211	LEU	N-CA-C	5.32	119.03	112.54
1	gv	193	ASN	CA-C-O	5.32	125.72	119.28
1	gx	63	GLN	O-C-N	5.32	128.81	122.27
1	gz	141	ILE	O-C-N	-5.32	116.70	121.91
1	gA	171	THR	CA-CB-OG1	5.32	117.58	109.60
1	gI	45	GLU	CA-C-O	5.32	126.75	120.69
1	gO	73	ILE	O-C-N	-5.32	116.35	121.83
1	gZ	124	ILE	O-C-N	-5.32	115.04	121.10
1	gZ	204	ALA	N-CA-C	5.32	117.08	111.28
1	1H	139	ASN	CA-C-N	5.32	127.35	120.44
1	1H	139	ASN	C-N-CA	5.32	127.35	120.44
1	ha	229	ARG	CA-C-N	5.32	127.63	120.50
1	ha	229	ARG	C-N-CA	5.32	127.63	120.50
1	he	101	GLY	CA-C-N	5.32	127.35	120.44
1	he	101	GLY	C-N-CA	5.32	127.35	120.44
1	he	214	MET	CA-C-N	5.32	127.84	120.29
1	he	214	MET	C-N-CA	5.32	127.84	120.29
1	1I	163	ASP	CA-C-O	5.32	126.08	119.97
1	hi	125	PRO	N-CA-CB	-5.32	98.85	102.73
1	hj	87	HIS	O-C-N	-5.32	115.96	122.55
1	hn	59	VAL	N-CA-CB	5.32	117.98	111.60
1	hq	100	ARG	NE-CZ-NH2	-5.32	114.42	119.20
1	hu	9	GLN	CB-CA-C	5.32	118.95	109.38
1	1K	124	ILE	CB-CA-C	5.32	117.12	110.95
1	hE	155	GLN	N-CA-CB	5.32	117.79	109.97
1	hP	81	ASP	CA-C-O	5.32	126.18	120.70
1	1M	95	GLN	CG-CD-OE1	-5.32	110.16	120.80
1	i2	120	HIS	N-CA-CB	5.32	119.48	110.49
1	i8	10	MET	CG-SD-CE	-5.32	89.20	100.90
1	ij	160	PRO	CB-CA-C	5.32	118.20	111.39
1	iv	146	SER	O-C-N	-5.32	115.20	121.32
1	iz	199	LYS	O-C-N	-5.32	116.48	122.12
1	iI	177	ALA	CA-C-N	5.32	128.64	120.82
1	iI	177	ALA	C-N-CA	5.32	128.64	120.82
1	iK	179	GLN	CB-CG-CD	5.32	121.64	112.60
1	j2	65	ALA	N-CA-C	5.32	117.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j6	182	LYS	N-CA-C	5.32	117.08	111.28
1	j9	188	THR	OG1-CB-CG2	-5.32	98.66	109.30
1	jh	156	GLY	CA-C-N	5.32	126.49	119.84
1	jh	156	GLY	C-N-CA	5.32	126.49	119.84
1	jl	208	ALA	N-CA-CB	-5.32	102.11	111.42
1	jp	101	GLY	CA-C-O	5.32	126.23	120.75
1	jp	193	ASN	CA-CB-CG	5.32	117.92	112.60
1	ju	126	VAL	CA-CB-CG2	5.32	119.44	110.40
1	jv	74	ASN	OD1-CG-ND2	-5.32	117.28	122.60
1	jv	178	SER	O-C-N	-5.32	116.53	122.75
1	jy	57	ASN	CB-CA-C	-5.32	101.96	110.79
1	jI	154	ARG	N-CA-CB	5.32	119.48	110.49
1	jQ	12	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	k2	141	ILE	N-CA-CB	5.32	117.77	110.54
1	k4	38	PRO	CA-C-N	5.32	127.84	120.29
1	k4	38	PRO	C-N-CA	5.32	127.84	120.29
1	kA	63	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	kD	37	ILE	CA-C-N	5.32	126.49	119.84
1	kD	37	ILE	C-N-CA	5.32	126.49	119.84
1	24	208	ALA	CA-C-N	5.32	128.78	120.75
1	24	208	ALA	C-N-CA	5.32	128.78	120.75
1	kS	185	MET	CG-SD-CE	-5.32	89.20	100.90
1	kY	51	ASP	CA-C-N	5.32	127.41	120.28
1	kY	51	ASP	C-N-CA	5.32	127.41	120.28
1	kY	209	ALA	CA-C-O	-5.32	114.69	120.81
1	l1	10	MET	O-C-N	-5.32	116.33	122.87
1	l6	154	ARG	NH1-CZ-NH2	-5.32	112.39	119.30
1	lm	73	ILE	O-C-N	-5.32	116.46	121.94
1	lm	149	SER	CA-C-N	5.32	127.75	120.46
1	lm	149	SER	C-N-CA	5.32	127.75	120.46
1	lu	49	PRO	CA-C-O	-5.32	111.56	119.86
1	lx	9	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	lB	143	ARG	O-C-N	-5.32	116.56	122.09
1	lD	172	LEU	O-C-N	-5.32	115.12	122.46
1	lI	179	GLN	OE1-CD-NE2	5.32	127.92	122.60
1	lK	6	LEU	CA-C-N	5.32	128.78	120.75
1	lK	6	LEU	C-N-CA	5.32	128.78	120.75
1	lL	163	ASP	O-C-N	5.32	127.76	122.12
1	2i	60	GLY	CA-C-N	5.32	126.54	120.53
1	2i	60	GLY	C-N-CA	5.32	126.54	120.53
1	2n	230	VAL	N-CA-C	5.32	116.22	110.21
1	2t	84	HIS	CA-C-N	5.32	126.15	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	84	HIS	C-N-CA	5.32	126.15	119.98
1	2F	190	LEU	CA-C-N	5.32	127.26	120.56
1	2F	190	LEU	C-N-CA	5.32	127.26	120.56
1	2I	120	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	2X	10	MET	O-C-N	-5.32	116.95	122.96
1	2Y	163	ASP	N-CA-CB	-5.32	102.11	110.30
1	31	50	GLN	CB-CA-C	-5.32	102.53	110.88
1	36	9	GLN	CA-C-N	5.32	131.69	121.54
1	36	9	GLN	C-N-CA	5.32	131.69	121.54
1	37	186	THR	N-CA-C	5.32	116.76	111.07
1	3g	185	MET	CA-C-N	5.32	127.40	120.28
1	3g	185	MET	C-N-CA	5.32	127.40	120.28
1	3o	8	GLY	N-CA-C	5.32	122.44	115.47
1	3o	117	TRP	CG-CD2-CE3	-5.32	128.58	133.90
1	3p	15	ILE	CA-C-O	5.32	127.02	120.74
1	3H	102	SER	CA-C-O	5.32	125.92	119.38
1	3R	152	ASP	N-CA-C	5.32	118.78	112.72
1	3T	135	ILE	CA-C-N	5.32	127.94	120.28
1	3T	135	ILE	C-N-CA	5.32	127.94	120.28
1	3W	142	VAL	CB-CA-C	5.32	118.51	111.70
1	4a	125	PRO	CA-C-N	5.32	128.03	120.53
1	4a	125	PRO	C-N-CA	5.32	128.03	120.53
1	4k	21	ASN	O-C-N	-5.32	116.59	122.07
1	4o	84	HIS	CA-C-O	-5.32	114.62	119.62
1	4v	52	LEU	O-C-N	-5.32	116.48	122.12
1	4z	14	ALA	CA-C-N	5.32	128.45	120.69
1	4z	14	ALA	C-N-CA	5.32	128.45	120.69
1	4L	227	LYS	CA-C-N	5.32	128.42	120.87
1	4L	227	LYS	C-N-CA	5.32	128.42	120.87
1	4N	110	THR	CA-C-N	5.32	127.67	120.38
1	4N	110	THR	C-N-CA	5.32	127.67	120.38
1	4W	216	THR	CA-C-N	5.32	128.64	120.82
1	4W	216	THR	C-N-CA	5.32	128.64	120.82
1	4X	48	THR	CA-CB-OG1	5.32	117.58	109.60
1	51	140	LYS	O-C-N	-5.32	115.73	122.27
1	5a	35	GLU	O-C-N	-5.32	116.09	122.15
1	5k	98	GLU	CB-CA-C	-5.32	100.90	109.67
1	5m	129	ILE	N-CA-C	-5.32	105.35	110.72
1	5r	12	HIS	CB-CG-CD2	5.32	138.11	131.20
1	5w	50	GLN	O-C-N	-5.32	116.59	122.07
1	5C	203	LYS	CA-C-N	5.32	131.48	122.65
1	5C	203	LYS	C-N-CA	5.32	131.48	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5F	102	SER	CA-C-O	5.32	125.92	119.38
1	5T	179	GLN	N-CA-CB	-5.32	102.29	110.16
1	63	205	LEU	CA-C-O	5.32	125.92	119.38
1	65	174	ALA	N-CA-C	-5.32	106.84	113.38
1	68	173	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	6e	23	TRP	CB-CG-CD2	5.32	134.25	126.80
1	6j	229	ARG	NH1-CZ-NH2	-5.32	112.39	119.30
1	6k	32	PHE	CB-CA-C	-5.32	102.17	110.94
1	6p	154	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	6s	5	ASN	CA-CB-CG	-5.32	107.28	112.60
1	6t	58	THR	N-CA-C	5.32	117.08	111.28
1	6v	23	TRP	N-CA-C	5.32	117.08	111.28
1	6G	87	HIS	CA-C-N	5.32	128.90	121.24
1	6G	87	HIS	C-N-CA	5.32	128.90	121.24
1	6I	193	ASN	CB-CG-ND2	-5.32	108.42	116.40
1	70	128	GLU	CA-C-N	5.32	127.97	120.42
1	70	128	GLU	C-N-CA	5.32	127.97	120.42
1	7h	162	ARG	N-CA-C	5.32	120.09	111.37
1	7i	52	LEU	CA-C-O	-5.32	114.91	120.55
1	7m	168	PHE	CD1-CE1-CZ	-5.32	110.43	120.00
1	7y	190	LEU	CA-C-N	5.32	127.97	120.42
1	7y	190	LEU	C-N-CA	5.32	127.97	120.42
1	7H	19	THR	N-CA-CB	5.32	118.18	110.26
1	7T	47	ALA	O-C-N	-5.32	116.26	122.96
1	7U	40	PHE	CA-C-N	5.32	127.72	120.54
1	7U	40	PHE	C-N-CA	5.32	127.72	120.54
1	80	77	ALA	N-CA-CB	-5.32	102.30	110.12
1	88	195	ASN	CA-CB-CG	5.32	117.92	112.60
1	8j	57	ASN	CA-C-N	5.32	127.72	120.54
1	8j	57	ASN	C-N-CA	5.32	127.72	120.54
1	8w	185	MET	N-CA-C	5.32	117.08	111.28
1	8y	76	GLU	N-CA-C	5.32	117.77	111.33
1	8D	7	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	8G	23	TRP	CA-C-O	5.32	126.18	120.70
1	8J	225	GLY	CA-C-N	5.32	130.73	122.49
1	8J	225	GLY	C-N-CA	5.32	130.73	122.49
1	8L	100	ARG	CA-C-N	5.32	125.88	119.98
1	8L	100	ARG	C-N-CA	5.32	125.88	119.98
1	8M	116	GLY	N-CA-C	-5.32	105.96	112.77
1	8W	89	GLY	CA-C-N	5.32	126.49	119.84
1	8W	89	GLY	C-N-CA	5.32	126.49	119.84
1	91	34	PRO	N-CA-C	-5.32	109.15	114.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	93	173	ARG	N-CA-C	5.32	117.08	111.28
1	97	85	PRO	O-C-N	-5.32	116.42	123.01
1	9a	101	GLY	CA-C-N	5.32	127.84	120.29
1	9a	101	GLY	C-N-CA	5.32	127.84	120.29
1	9d	212	GLU	O-C-N	-5.32	116.48	122.12
1	9A	205	LEU	N-CA-C	5.32	116.88	111.14
1	9J	153	ILE	N-CA-C	5.32	116.44	109.58
1	9J	174	ALA	N-CA-C	5.32	117.16	111.36
1	9O	3	VAL	O-C-N	-5.32	117.31	123.00
1	9O	65	ALA	CA-C-O	5.32	126.06	120.42
1	9Y	143	ARG	CA-C-O	5.32	126.40	120.82
1	a5	62	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	a6	91	ILE	CA-C-O	5.32	127.10	121.04
1	aj	134	ILE	CA-C-O	-5.32	115.15	121.05
1	11	98	GLU	CA-C-O	-5.32	114.70	119.59
1	at	31	ALA	N-CA-C	5.32	117.95	109.02
1	au	26	VAL	N-CA-CB	5.32	117.38	110.57
1	au	149	SER	O-C-N	-5.32	116.27	122.81
1	aA	79	GLU	N-CA-C	5.32	116.76	111.07
1	aA	146	SER	CA-C-N	5.32	126.49	119.84
1	aA	146	SER	C-N-CA	5.32	126.49	119.84
1	13	201	ILE	N-CA-C	5.32	115.52	110.42
1	aR	145	TYR	N-CA-C	5.32	119.03	112.54
1	aU	21	ASN	CB-CG-ND2	5.32	124.38	116.40
1	aU	217	ALA	N-CA-CB	5.32	118.62	110.70
1	15	80	TRP	N-CA-CB	-5.32	102.30	110.12
1	aY	16	SER	N-CA-C	5.32	117.14	109.48
1	b0	154	ARG	CA-CB-CG	5.32	124.73	114.10
1	b5	50	GLN	CA-C-O	5.32	126.59	120.90
1	bf	217	ALA	N-CA-C	5.32	117.15	110.24
1	bi	81	ASP	CB-CA-C	-5.32	101.81	110.85
1	bl	144	MET	O-C-N	-5.32	116.59	122.07
1	bz	212	GLU	CA-C-N	5.32	127.84	120.29
1	bz	212	GLU	C-N-CA	5.32	127.84	120.29
1	bJ	37	ILE	N-CA-CB	-5.32	106.30	110.45
1	bO	94	GLY	N-CA-C	-5.32	107.71	115.63
1	c3	69	LEU	CB-CA-C	5.32	119.23	110.88
1	c3	117	TRP	CD2-CE2-CZ2	-5.32	117.08	122.40
1	c7	105	ALA	N-CA-CB	5.32	118.33	110.56
1	ce	203	LYS	N-CA-CB	-5.32	102.30	110.01
1	cg	175	GLU	O-C-N	-5.32	116.40	122.89
1	cj	77	ALA	N-CA-C	5.32	117.16	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ck	183	ASN	N-CA-C	5.32	117.16	111.36
1	cr	33	SER	O-C-N	-5.32	115.47	121.43
1	cz	34	PRO	N-CA-C	5.32	120.58	114.20
1	cK	98	GLU	CA-C-N	5.32	125.08	119.76
1	cK	98	GLU	C-N-CA	5.32	125.08	119.76
1	cL	167	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	cT	53	ASN	CA-C-N	5.32	127.67	120.38
1	cT	53	ASN	C-N-CA	5.32	127.67	120.38
1	cT	74	ASN	N-CA-C	-5.32	105.56	111.36
1	cU	139	ASN	CB-CG-ND2	5.32	124.38	116.40
1	cW	12	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	1i	39	MET	CA-C-N	5.32	127.72	120.54
1	1i	39	MET	C-N-CA	5.32	127.72	120.54
1	d4	172	LEU	CA-C-O	5.32	126.11	120.10
1	d6	26	VAL	CA-CB-CG2	-5.32	101.36	110.40
1	dj	216	THR	CA-C-N	5.32	128.26	120.71
1	dj	216	THR	C-N-CA	5.32	128.26	120.71
1	dq	7	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	dw	120	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	dw	181	VAL	CA-C-N	5.32	127.41	120.28
1	dw	181	VAL	C-N-CA	5.32	127.41	120.28
1	dD	27	VAL	CA-CB-CG1	5.32	119.44	110.40
1	dD	97	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	dG	183	ASN	CA-C-O	5.32	126.19	120.55
1	dW	113	GLU	CA-C-N	5.32	127.35	120.44
1	dW	113	GLU	C-N-CA	5.32	127.35	120.44
1	dY	174	ALA	N-CA-CB	5.32	118.36	110.49
1	e0	82	ARG	NE-CZ-NH2	5.32	123.99	119.20
1	e3	53	ASN	CA-CB-CG	-5.32	107.28	112.60
1	e5	27	VAL	N-CA-C	5.32	117.70	111.05
1	es	57	ASN	OD1-CG-ND2	5.32	127.92	122.60
1	es	154	ARG	CA-C-O	-5.32	114.97	121.78
1	es	192	GLN	O-C-N	-5.32	115.31	122.43
1	eK	183	ASN	CB-CG-ND2	-5.32	108.42	116.40
1	eO	209	ALA	N-CA-C	-5.32	106.84	113.38
1	eV	168	PHE	CA-C-N	5.32	127.41	120.28
1	eV	168	PHE	C-N-CA	5.32	127.41	120.28
1	1u	157	PRO	N-CA-C	-5.32	106.79	114.18
1	f4	142	VAL	O-C-N	-5.32	116.62	121.94
1	f4	148	THR	O-C-N	-5.32	115.52	122.59
1	f8	191	VAL	N-CA-CB	5.32	117.77	110.54
1	f9	2	ILE	CA-C-N	5.32	130.17	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	2	ILE	C-N-CA	5.32	130.17	123.10
1	fh	31	ALA	CA-C-O	-5.32	115.34	121.19
1	ft	24	VAL	N-CA-C	5.32	116.04	110.62
1	fw	134	ILE	O-C-N	-5.32	116.35	121.83
1	1A	95	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	fY	191	VAL	CA-C-O	5.32	126.49	120.85
1	g4	82	ARG	N-CA-C	5.32	117.08	111.28
1	g5	134	ILE	CA-C-N	5.32	127.74	120.46
1	g5	134	ILE	C-N-CA	5.32	127.74	120.46
1	1B	141	ILE	N-CA-CB	5.32	117.77	110.54
1	l	33	SER	CA-C-O	-5.32	114.45	120.46
1	q	206	GLY	CA-C-N	5.32	126.15	119.98
1	q	206	GLY	C-N-CA	5.32	126.15	119.98
1	H	147	PRO	CA-C-N	-5.32	113.89	121.50
1	H	147	PRO	C-N-CA	-5.32	113.89	121.50
1	X	179	GLN	N-CA-C	5.32	117.76	111.33
1	6	10	MET	N-CA-C	5.32	118.29	109.46
1	g8	103	ASP	CA-C-O	-5.32	114.92	120.55
1	gx	217	ALA	N-CA-C	5.32	118.15	110.28
1	gC	179	GLN	CA-C-O	5.32	126.05	120.42
1	gF	146	SER	CA-C-N	5.32	126.48	119.84
1	gF	146	SER	C-N-CA	5.32	126.48	119.84
1	gH	178	SER	CA-C-O	5.32	127.18	121.55
1	gL	171	THR	CA-CB-CG2	5.32	119.54	110.50
1	1F	63	GLN	CB-CG-CD	5.32	121.64	112.60
1	1F	134	ILE	CB-CA-C	-5.32	105.17	111.97
1	gM	62	HIS	CA-CB-CG	5.32	119.11	113.80
1	gN	62	HIS	CA-C-N	5.32	127.40	120.28
1	gN	62	HIS	C-N-CA	5.32	127.40	120.28
1	gO	59	VAL	O-C-N	-5.32	116.55	122.66
1	gQ	214	MET	N-CA-CB	5.32	117.93	110.12
1	h2	124	ILE	CB-CA-C	5.32	121.03	111.36
1	h3	33	SER	N-CA-C	-5.32	103.34	108.07
1	h4	46	GLY	O-C-N	5.32	128.82	122.34
1	hd	192	GLN	CA-CB-CG	5.32	124.73	114.10
1	1J	85	PRO	N-CA-CB	5.32	107.93	103.25
1	hw	201	ILE	CB-CA-C	5.32	119.56	112.22
1	hx	62	HIS	CA-CB-CG	5.32	119.12	113.80
1	hI	163	ASP	CA-C-N	5.32	127.35	120.44
1	hI	163	ASP	C-N-CA	5.32	127.35	120.44
1	hM	194	ALA	N-CA-C	5.32	117.55	110.53
1	ig	185	MET	N-CA-C	5.32	117.08	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ik	98	GLU	CA-C-O	-5.32	114.23	119.49
1	im	184	TRP	O-C-N	5.32	127.75	122.12
1	iw	112	GLN	N-CA-C	5.32	117.76	111.33
1	iy	62	HIS	CB-CG-ND1	-5.32	114.73	122.70
1	iA	218	CYS	CA-C-O	5.32	128.11	120.51
1	iD	18	ARG	NE-CZ-NH2	5.32	123.98	119.20
1	iI	28	GLU	N-CA-C	5.32	117.49	111.11
1	iX	144	MET	CA-C-O	-5.32	114.92	120.55
1	j7	72	THR	N-CA-C	5.32	116.76	111.07
1	jc	5	ASN	CA-CB-CG	-5.32	107.28	112.60
1	jc	210	THR	CA-C-N	5.32	127.40	120.28
1	jc	210	THR	C-N-CA	5.32	127.40	120.28
1	jw	204	ALA	N-CA-CB	-5.32	101.73	110.40
1	jz	130	TYR	O-C-N	-5.32	116.35	122.09
1	jF	70	LYS	CA-C-O	5.32	126.18	120.55
1	jF	132	ARG	CD-NE-CZ	5.32	131.84	124.40
1	jU	79	GLU	O-C-N	-5.32	116.09	122.15
1	kp	226	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	kx	223	GLY	CA-C-N	5.32	125.78	120.04
1	kx	223	GLY	C-N-CA	5.32	125.78	120.04
1	kC	176	GLN	OE1-CD-NE2	5.32	127.92	122.60
1	kF	219	GLN	O-C-N	-5.32	117.02	123.03
1	kK	5	ASN	N-CA-CB	-5.32	101.75	110.68
1	kR	62	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	kU	137	GLY	CA-C-O	5.32	126.53	121.05
1	kX	210	THR	CA-CB-CG2	5.32	119.54	110.50
1	l0	34	PRO	CB-CA-C	-5.32	104.35	112.11
1	l4	219	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	l9	18	ARG	N-CA-C	5.32	117.08	111.28
1	l9	212	GLU	CA-CB-CG	5.32	124.73	114.10
1	ll	103	ASP	N-CA-CB	-5.32	102.29	110.16
1	lx	130	TYR	CB-CG-CD2	-5.32	112.83	120.80
1	lz	193	ASN	CA-CB-CG	-5.32	107.28	112.60
1	lA	142	VAL	CA-CB-CG1	5.32	119.44	110.40
1	2i	84	HIS	CB-CG-CD2	5.32	138.11	131.20
1	2y	12	HIS	ND1-CE1-NE2	5.32	113.72	108.40
1	2C	198	CYS	CA-C-O	5.32	126.06	120.42
1	2D	142	VAL	CA-CB-CG2	-5.32	101.36	110.40
1	2G	181	VAL	O-C-N	-5.32	116.36	121.83
1	2K	80	TRP	CA-C-O	5.32	126.19	120.55
1	2V	84	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	3f	78	ALA	CA-C-N	5.32	127.40	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3f	78	ALA	C-N-CA	5.32	127.40	120.28
1	3n	131	LYS	N-CA-C	5.32	117.07	111.28
1	3p	223	GLY	CA-C-N	5.32	125.62	119.93
1	3p	223	GLY	C-N-CA	5.32	125.62	119.93
1	3x	190	LEU	O-C-N	-5.32	116.49	122.12
1	3B	67	GLN	CB-CG-CD	5.32	121.64	112.60
1	3H	90	PRO	N-CA-C	5.32	119.43	111.14
1	46	163	ASP	CA-C-O	5.32	126.05	120.42
1	4h	167	ARG	CA-C-N	5.32	127.72	120.54
1	4h	167	ARG	C-N-CA	5.32	127.72	120.54
1	4l	163	ASP	O-C-N	5.32	128.81	122.27
1	4C	80	TRP	CA-CB-CG	5.32	123.70	113.60
1	4J	229	ARG	N-CA-C	-5.32	106.75	113.18
1	4M	148	THR	OG1-CB-CG2	-5.32	98.67	109.30
1	4Q	210	THR	CA-C-N	5.32	127.72	120.54
1	4Q	210	THR	C-N-CA	5.32	127.72	120.54
1	4V	13	GLN	CA-C-N	5.32	128.42	120.87
1	4V	13	GLN	C-N-CA	5.32	128.42	120.87
1	4V	67	GLN	CA-C-O	5.32	126.06	119.79
1	4X	223	GLY	CA-C-N	5.32	125.23	119.76
1	4X	223	GLY	C-N-CA	5.32	125.23	119.76
1	50	112	GLN	OE1-CD-NE2	-5.32	117.28	122.60
1	50	218	CYS	O-C-N	-5.32	115.52	122.59
1	54	155	GLN	CA-C-O	-5.32	114.47	120.32
1	56	15	ILE	O-C-N	-5.32	117.06	122.75
1	5d	118	MET	CB-CA-C	5.32	120.88	110.67
1	5d	155	GLN	CA-C-O	5.32	127.04	121.19
1	5h	193	ASN	O-C-N	-5.32	115.96	122.34
1	5t	161	PHE	CA-C-N	5.32	127.40	120.28
1	5t	161	PHE	C-N-CA	5.32	127.40	120.28
1	5u	82	ARG	NH1-CZ-NH2	-5.32	112.39	119.30
1	5A	116	GLY	N-CA-C	5.32	119.07	112.64
1	5J	5	ASN	N-CA-CB	-5.32	101.62	110.23
1	6h	167	ARG	N-CA-C	5.32	117.07	111.28
1	6i	105	ALA	CA-C-O	5.32	125.86	119.43
1	6s	55	MET	CB-CA-C	-5.32	101.97	110.79
1	6F	56	LEU	O-C-N	-5.32	116.09	122.15
1	6H	29	GLU	CA-C-O	5.32	124.80	118.69
1	6I	182	LYS	CA-C-N	5.32	127.40	120.28
1	6I	182	LYS	C-N-CA	5.32	127.40	120.28
1	6J	85	PRO	CB-CA-C	-5.32	103.99	110.95
1	6Q	12	HIS	CG-CD2-NE2	5.32	112.52	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	73	ILE	N-CA-C	5.32	116.04	110.62
1	6X	87	HIS	CE1-NE2-CD2	-5.32	103.69	109.00
1	72	213	GLU	O-C-N	5.32	127.75	122.12
1	73	4	GLN	N-CA-C	5.32	118.02	110.10
1	73	44	SER	O-C-N	-5.32	115.76	122.19
1	73	103	ASP	CA-CB-CG	-5.32	107.28	112.60
1	7p	50	GLN	N-CA-C	5.32	117.07	111.28
1	7p	84	HIS	CA-CB-CG	-5.32	108.48	113.80
1	7p	112	GLN	CA-C-N	5.32	129.67	120.58
1	7p	112	GLN	C-N-CA	5.32	129.67	120.58
1	7s	121	ASN	CA-C-O	-5.32	115.44	119.59
1	7s	145	TYR	CA-C-O	5.32	125.57	119.35
1	7A	142	VAL	CA-CB-CG2	-5.32	101.36	110.40
1	7B	221	VAL	N-CA-C	5.32	120.40	109.34
1	7E	163	ASP	CA-CB-CG	5.32	117.92	112.60
1	7H	143	ARG	NE-CZ-NH1	5.32	126.82	121.50
1	7U	110	THR	N-CA-CB	5.32	119.30	110.63
1	7W	220	GLY	CA-C-N	5.32	127.73	120.77
1	7W	220	GLY	C-N-CA	5.32	127.73	120.77
1	7Y	71	GLU	CA-C-O	5.32	126.18	120.55
1	86	62	HIS	ND1-CG-CD2	5.32	111.42	106.10
1	8b	23	TRP	CB-CG-CD2	-5.32	119.36	126.80
1	8d	124	ILE	N-CA-CB	5.32	118.09	111.39
1	8h	91	ILE	CB-CA-C	-5.32	104.86	111.08
1	8q	74	ASN	CA-C-N	5.32	127.35	120.44
1	8q	74	ASN	C-N-CA	5.32	127.35	120.44
1	8B	146	SER	O-C-N	-5.32	114.05	121.12
1	8M	148	THR	N-CA-CB	5.32	117.78	109.97
1	8T	109	SER	O-C-N	-5.32	116.99	123.10
1	8U	176	GLN	N-CA-CB	-5.32	102.31	110.44
1	90	161	PHE	CA-C-N	5.32	127.35	120.44
1	90	161	PHE	C-N-CA	5.32	127.35	120.44
1	98	74	ASN	CA-CB-CG	5.32	117.92	112.60
1	9i	102	SER	N-CA-C	5.32	119.39	113.01
1	9l	51	ASP	CA-CB-CG	5.32	117.92	112.60
1	9r	50	GLN	N-CA-C	5.32	117.49	111.11
1	9G	181	VAL	O-C-N	-5.32	116.72	121.87
1	9J	134	ILE	N-CA-C	5.32	115.52	110.42
1	9K	8	GLY	O-C-N	-5.32	115.97	122.30
1	9T	87	HIS	CE1-NE2-CD2	-5.32	103.68	109.00
1	ah	171	THR	O-C-N	-5.32	115.73	122.27
1	ah	197	ASP	CA-CB-CG	-5.32	107.28	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	86	VAL	O-C-N	-5.32	117.00	122.63
1	az	14	ALA	O-C-N	5.32	128.97	122.96
1	13	76	GLU	N-CA-CB	5.32	117.78	110.07
1	aE	154	ARG	CD-NE-CZ	5.32	131.84	124.40
1	aF	215	MET	CA-C-N	5.32	131.46	122.26
1	aF	215	MET	C-N-CA	5.32	131.46	122.26
1	aN	52	LEU	N-CA-C	5.32	117.99	111.82
1	14	126	VAL	N-CA-C	5.32	117.69	111.05
1	aR	190	LEU	CA-C-O	5.32	126.18	120.55
1	aV	230	VAL	O-C-N	-5.32	117.14	122.62
1	bl	140	LYS	N-CA-CB	-5.32	102.29	110.16
1	19	152	ASP	CA-C-O	5.32	125.14	119.34
1	bF	66	MET	CA-C-N	5.32	127.40	120.28
1	bF	66	MET	C-N-CA	5.32	127.40	120.28
1	bK	197	ASP	N-CA-C	5.32	117.07	111.28
1	bL	171	THR	CA-C-N	5.32	127.40	120.28
1	bL	171	THR	C-N-CA	5.32	127.40	120.28
1	bR	119	THR	N-CA-CB	5.32	118.36	110.49
1	c4	217	ALA	N-CA-CB	-5.32	103.10	110.38
1	c6	17	PRO	CA-C-N	5.32	127.40	120.28
1	c6	17	PRO	C-N-CA	5.32	127.40	120.28
1	c7	137	GLY	O-C-N	-5.32	115.79	122.70
1	c7	192	GLN	N-CA-C	5.32	117.76	111.33
1	ck	162	ARG	CD-NE-CZ	5.32	131.84	124.40
1	cm	205	LEU	CA-C-N	5.32	130.22	121.87
1	cm	205	LEU	C-N-CA	5.32	130.22	121.87
1	cx	124	ILE	N-CA-C	-5.32	101.91	107.60
1	cH	62	HIS	N-CA-C	5.32	118.96	111.52
1	cI	4	GLN	CA-C-N	5.32	130.91	122.94
1	cI	4	GLN	C-N-CA	5.32	130.91	122.94
1	cM	120	HIS	CG-CD2-NE2	5.32	112.52	107.20
1	cN	72	THR	N-CA-C	5.32	117.07	111.28
1	d9	169	TYR	O-C-N	-5.32	116.48	122.12
1	di	135	ILE	O-C-N	-5.32	116.71	121.87
1	dk	209	ALA	O-C-N	-5.32	116.27	122.81
1	du	139	ASN	CA-C-N	5.32	128.79	120.82
1	du	139	ASN	C-N-CA	5.32	128.79	120.82
1	dy	195	ASN	N-CA-CB	5.32	118.33	109.98
1	dD	21	ASN	N-CA-C	5.32	116.76	111.07
1	dD	195	ASN	N-CA-C	5.32	121.56	109.81
1	dE	113	GLU	N-CA-C	5.32	117.07	111.28
1	1m	111	LEU	CB-CA-C	-5.32	101.97	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dP	124	ILE	N-CA-C	5.32	112.81	107.55
1	dQ	205	LEU	N-CA-CB	5.32	117.78	110.07
1	dR	189	LEU	CA-C-N	5.32	127.66	120.38
1	dR	189	LEU	C-N-CA	5.32	127.66	120.38
1	e0	201	ILE	O-C-N	5.32	127.31	121.83
1	e3	63	GLN	CA-C-O	-5.32	115.24	120.82
1	e4	171	THR	N-CA-CB	5.32	118.45	110.53
1	ec	200	THR	N-CA-C	5.32	117.49	111.11
1	ee	184	TRP	CB-CA-C	5.32	119.61	110.79
1	ef	103	ASP	CB-CA-C	-5.32	101.81	110.85
1	eu	58	THR	O-C-N	-5.32	116.60	122.07
1	1r	138	LEU	O-C-N	-5.32	116.49	122.12
1	eC	42	ALA	CA-C-O	-5.32	114.92	120.55
1	eF	206	GLY	O-C-N	5.32	127.09	121.77
1	eN	39	MET	N-CA-C	5.32	116.76	111.07
1	eO	216	THR	CA-C-N	5.32	128.42	120.87
1	eO	216	THR	C-N-CA	5.32	128.42	120.87
1	eS	93	PRO	CA-C-O	-5.32	115.69	121.27
1	eS	120	HIS	CA-CB-CG	5.32	119.12	113.80
1	eV	198	CYS	CB-CA-C	-5.32	100.47	110.67
1	f6	28	GLU	N-CA-C	5.32	117.82	111.71
1	1v	49	PRO	CB-CA-C	5.32	120.33	111.56
1	ff	145	TYR	CA-C-N	5.32	127.78	120.39
1	ff	145	TYR	C-N-CA	5.32	127.78	120.39
1	fi	155	GLN	CA-C-N	5.32	130.22	121.87
1	fi	155	GLN	C-N-CA	5.32	130.22	121.87
1	1w	163	ASP	N-CA-C	5.32	116.76	111.07
1	1x	37	ILE	O-C-N	5.32	123.82	120.42
1	fy	90	PRO	N-CA-CB	5.32	107.97	103.19
1	fG	72	THR	N-CA-CB	5.32	117.90	109.82
1	fR	66	MET	CA-C-N	5.32	127.66	120.38
1	fR	66	MET	C-N-CA	5.32	127.66	120.38
1	g0	197	ASP	CA-CB-CG	5.32	117.92	112.60
1	g3	37	ILE	O-C-N	-5.32	115.04	121.10
1	g7	20	LEU	CA-C-N	5.32	127.40	120.28
1	g7	20	LEU	C-N-CA	5.32	127.40	120.28
1	d	48	THR	O-C-N	-5.32	115.58	121.53
1	h	144	MET	N-CA-C	5.32	116.76	111.07
1	k	111	LEU	O-C-N	5.32	127.75	122.12
1	2	215	MET	N-CA-C	5.32	117.76	111.33
1	v	209	ALA	N-CA-C	5.32	117.99	110.50
1	y	134	ILE	O-C-N	-5.32	116.70	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	108	THR	CA-C-O	5.32	125.75	119.48
1	O	154	ARG	N-CA-CB	-5.32	101.99	111.08
1	gx	160	PRO	N-CA-C	5.31	123.42	112.47
1	gI	210	THR	N-CA-CB	5.31	117.85	110.04
1	gW	12	HIS	N-CA-C	5.31	117.99	110.50
1	h4	102	SER	O-C-N	-5.31	115.31	122.43
1	h7	226	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	ha	178	SER	N-CA-C	5.31	117.58	110.35
1	hv	69	LEU	O-C-N	-5.31	116.49	122.12
1	hF	51	ASP	O-C-N	-5.31	116.09	122.15
1	hF	84	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	1L	56	LEU	O-C-N	-5.31	116.49	122.12
1	hN	99	PRO	CA-C-N	5.31	132.82	121.45
1	hN	99	PRO	C-N-CA	5.31	132.82	121.45
1	hR	150	ILE	O-C-N	-5.31	115.80	121.80
1	hU	191	VAL	CA-C-O	-5.31	115.15	121.05
1	iy	6	LEU	N-CA-C	5.31	118.30	110.59
1	iF	190	LEU	CA-C-N	5.31	127.74	120.46
1	iF	190	LEU	C-N-CA	5.31	127.74	120.46
1	iN	147	PRO	N-CD-CG	5.31	111.17	103.20
1	jb	206	GLY	CA-C-N	5.31	124.93	119.56
1	jb	206	GLY	C-N-CA	5.31	124.93	119.56
1	jg	101	GLY	N-CA-C	5.31	119.31	112.83
1	jB	72	THR	CA-C-N	5.31	127.74	120.46
1	jB	72	THR	C-N-CA	5.31	127.74	120.46
1	jU	146	SER	CA-C-O	-5.31	113.69	118.79
1	k7	65	ALA	CA-C-N	5.31	127.40	120.28
1	k7	65	ALA	C-N-CA	5.31	127.40	120.28
1	kg	117	TRP	CB-CG-CD2	5.31	134.24	126.80
1	ko	50	GLN	CA-C-N	5.31	127.67	120.44
1	ko	50	GLN	C-N-CA	5.31	127.67	120.44
1	ks	228	ALA	N-CA-C	5.31	117.58	110.35
1	kN	164	TYR	CA-C-O	-5.31	115.24	120.82
1	kQ	156	GLY	O-C-N	-5.31	116.46	121.77
1	lg	117	TRP	CB-CG-CD1	-5.31	118.93	126.90
1	lk	161	PHE	CA-C-N	5.31	127.71	120.54
1	lk	161	PHE	C-N-CA	5.31	127.71	120.54
1	ln	91	ILE	O-C-N	-5.31	116.88	122.67
1	lD	12	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	2p	167	ARG	CA-C-O	5.31	126.18	120.55
1	2s	127	GLY	O-C-N	5.31	127.34	122.19
1	2x	229	ARG	NH1-CZ-NH2	-5.31	112.39	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2G	77	ALA	CA-C-N	5.31	127.40	120.28
1	2G	77	ALA	C-N-CA	5.31	127.40	120.28
1	2N	117	TRP	N-CA-C	5.31	117.98	111.82
1	2V	50	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	2X	105	ALA	CB-CA-C	5.31	119.83	110.37
1	32	34	PRO	CA-C-N	5.31	131.11	121.92
1	32	34	PRO	C-N-CA	5.31	131.11	121.92
1	3f	163	ASP	N-CA-C	5.31	119.02	112.54
1	3l	33	SER	N-CA-C	5.31	116.58	109.83
1	3m	59	VAL	N-CA-CB	5.31	117.06	111.00
1	3w	92	GLU	O-C-N	-5.31	115.58	121.53
1	3Q	59	VAL	CG1-CB-CG2	-5.31	99.11	110.80
1	43	110	THR	CA-C-N	5.31	127.66	120.38
1	43	110	THR	C-N-CA	5.31	127.66	120.38
1	4c	197	ASP	N-CA-C	5.31	116.76	111.07
1	4g	5	ASN	N-CA-C	5.31	117.88	109.96
1	4i	144	MET	N-CA-C	5.31	117.49	111.11
1	4B	18	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	54	32	PHE	N-CA-CB	5.31	118.19	109.95
1	56	107	THR	O-C-N	-5.31	115.84	122.11
1	5F	164	TYR	CA-C-N	5.31	127.74	120.46
1	5F	164	TYR	C-N-CA	5.31	127.74	120.46
1	5G	39	MET	N-CA-CB	5.31	118.03	110.16
1	5I	136	LEU	CA-C-N	5.31	125.84	119.94
1	5I	136	LEU	C-N-CA	5.31	125.84	119.94
1	5Q	98	GLU	O-C-N	5.31	126.12	121.18
1	5T	37	ILE	CB-CA-C	-5.31	108.72	114.35
1	6c	61	GLY	N-CA-C	5.31	120.76	112.31
1	6c	221	VAL	N-CA-C	5.31	116.10	108.93
1	6l	131	LYS	CA-C-N	5.31	127.40	120.28
1	6l	131	LYS	C-N-CA	5.31	127.40	120.28
1	6p	184	TRP	CA-C-N	5.31	127.66	120.38
1	6p	184	TRP	C-N-CA	5.31	127.66	120.38
1	6q	5	ASN	CA-C-N	5.31	127.35	120.44
1	6q	5	ASN	C-N-CA	5.31	127.35	120.44
1	6q	163	ASP	N-CA-C	5.31	117.98	111.82
1	6u	216	THR	CA-C-O	5.31	126.13	119.59
1	6A	85	PRO	N-CD-CG	5.31	111.17	103.20
1	6V	198	CYS	CB-CA-C	-5.31	99.54	110.38
1	79	113	GLU	CB-CG-CD	-5.31	103.57	112.60
1	7a	6	LEU	O-C-N	5.31	127.77	122.08
1	7h	169	TYR	N-CA-C	5.31	117.15	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	10	MET	CG-SD-CE	-5.31	89.21	100.90
1	7B	191	VAL	CA-CB-CG1	5.31	119.43	110.40
1	7D	93	PRO	N-CA-C	5.31	123.42	112.47
1	7R	27	VAL	CB-CA-C	5.31	119.31	112.14
1	7Y	157	PRO	N-CA-C	5.31	120.92	113.53
1	85	182	LYS	O-C-N	5.31	127.75	122.12
1	8a	97	ARG	O-C-N	-5.31	116.33	122.87
1	8K	229	ARG	N-CA-C	5.31	122.12	110.80
1	8O	118	MET	CG-SD-CE	-5.31	89.21	100.90
1	8S	24	VAL	CA-C-O	-5.31	115.42	120.95
1	8T	162	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	9r	138	LEU	CA-C-N	5.31	127.40	120.28
1	9r	138	LEU	C-N-CA	5.31	127.40	120.28
1	9y	77	ALA	N-CA-C	5.31	117.07	111.28
1	9E	20	LEU	N-CA-C	5.31	117.98	111.82
1	9J	31	ALA	N-CA-C	5.31	122.12	110.80
1	9N	220	GLY	CA-C-N	5.31	128.45	120.69
1	9N	220	GLY	C-N-CA	5.31	128.45	120.69
1	9P	31	ALA	N-CA-C	5.31	118.93	112.23
1	9P	79	GLU	N-CA-C	5.31	117.07	111.28
1	9X	133	TRP	CB-CA-C	-5.31	101.65	110.68
1	a9	19	THR	N-CA-C	5.31	117.07	111.28
1	a9	177	ALA	CA-C-N	5.31	129.23	121.31
1	a9	177	ALA	C-N-CA	5.31	129.23	121.31
1	aq	37	ILE	CA-C-O	-5.31	114.67	118.71
1	ax	35	GLU	CA-C-N	5.31	127.45	120.60
1	ax	35	GLU	C-N-CA	5.31	127.45	120.60
1	aW	145	TYR	CB-CG-CD2	-5.31	112.83	120.80
1	15	32	PHE	N-CA-C	5.31	118.02	110.10
1	b1	100	ARG	NH1-CZ-NH2	5.31	126.21	119.30
1	bw	9	GLN	N-CA-C	-5.31	105.10	113.02
1	1c	93	PRO	CA-C-N	5.31	132.82	121.18
1	1c	93	PRO	C-N-CA	5.31	132.82	121.18
1	1c	153	ILE	CA-C-O	5.31	126.25	120.57
1	cd	183	ASN	N-CA-C	5.31	116.76	111.07
1	cm	176	GLN	CA-C-N	5.31	128.41	120.87
1	cm	176	GLN	C-N-CA	5.31	128.41	120.87
1	dn	44	SER	CB-CA-C	-5.31	102.46	111.02
1	e7	7	GLN	CA-C-O	5.31	126.23	120.12
1	e9	147	PRO	N-CD-CG	5.31	111.17	103.20
1	ec	23	TRP	N-CA-C	5.31	116.76	111.07
1	ep	112	GLN	N-CA-C	5.31	117.15	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eP	216	THR	N-CA-CB	5.31	118.30	110.33
1	eP	219	GLN	CA-C-N	5.31	131.07	122.09
1	eP	219	GLN	C-N-CA	5.31	131.07	122.09
1	eX	15	ILE	N-CA-C	5.31	120.39	109.34
1	f9	120	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	fb	173	ARG	CB-CG-CD	5.31	123.52	111.30
1	fy	4	GLN	CB-CG-CD	5.31	121.63	112.60
1	fC	162	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	fI	216	THR	CA-CB-CG2	-5.31	101.47	110.50
1	g5	61	GLY	CA-C-N	5.31	130.11	122.35
1	g5	61	GLY	C-N-CA	5.31	130.11	122.35
1	h	189	LEU	CB-CA-C	5.31	119.88	110.85
1	ge	230	VAL	CA-CB-CG1	5.31	119.43	110.40
1	gk	229	ARG	CA-C-N	5.31	129.35	120.64
1	gk	229	ARG	C-N-CA	5.31	129.35	120.64
1	gn	230	VAL	CA-C-O	5.31	126.78	120.72
1	gp	214	MET	CA-C-O	-5.31	115.24	120.82
1	gF	207	PRO	O-C-N	-5.31	115.08	122.30
1	gH	163	ASP	CA-C-O	5.31	126.58	120.90
1	gR	30	LYS	N-CA-C	5.31	120.42	113.30
1	gR	214	MET	CG-SD-CE	-5.31	89.21	100.90
1	gV	195	ASN	CA-C-N	5.31	126.48	119.84
1	gV	195	ASN	C-N-CA	5.31	126.48	119.84
1	gW	74	ASN	OD1-CG-ND2	-5.31	117.29	122.60
1	h3	43	LEU	O-C-N	-5.31	116.60	122.07
1	1H	62	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	hl	167	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	hq	89	GLY	CA-C-N	5.31	125.61	119.93
1	hq	89	GLY	C-N-CA	5.31	125.61	119.93
1	hw	179	GLN	CA-C-N	5.31	127.83	120.29
1	hw	179	GLN	C-N-CA	5.31	127.83	120.29
1	hC	177	ALA	N-CA-C	5.31	117.15	110.24
1	hD	137	GLY	O-C-N	-5.31	117.08	122.18
1	hF	162	ARG	CA-C-N	5.31	127.40	120.28
1	hF	162	ARG	C-N-CA	5.31	127.40	120.28
1	hG	50	GLN	N-CA-C	5.31	117.82	111.71
1	1L	161	PHE	CA-CB-CG	5.31	119.11	113.80
1	i0	82	ARG	CA-C-N	5.31	127.71	120.54
1	i0	82	ARG	C-N-CA	5.31	127.71	120.54
1	i2	229	ARG	O-C-N	-5.31	117.11	123.27
1	ig	120	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	ik	226	HIS	O-C-N	5.31	127.54	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	48	THR	N-CA-CB	5.31	117.21	110.04
1	iw	23	TRP	CA-C-N	5.31	127.74	120.46
1	iw	23	TRP	C-N-CA	5.31	127.74	120.46
1	iw	35	GLU	CA-C-O	5.31	125.79	119.10
1	iz	3	VAL	CA-C-O	5.31	126.89	120.67
1	iz	181	VAL	CA-C-N	5.31	127.83	120.29
1	iz	181	VAL	C-N-CA	5.31	127.83	120.29
1	1R	202	LEU	CA-C-N	5.31	127.83	120.29
1	1R	202	LEU	C-N-CA	5.31	127.83	120.29
1	iJ	220	GLY	CA-C-N	-5.31	116.24	122.93
1	iJ	220	GLY	C-N-CA	-5.31	116.24	122.93
1	iM	100	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	iT	138	LEU	CB-CA-C	-5.31	101.82	110.85
1	j0	195	ASN	N-CA-C	5.31	121.55	109.81
1	j1	51	ASP	CA-C-O	5.31	126.58	121.00
1	j6	57	ASN	N-CA-C	-5.31	106.57	113.16
1	1U	102	SER	O-C-N	-5.31	115.31	122.43
1	js	26	VAL	O-C-N	-5.31	116.72	121.87
1	jv	130	TYR	CA-C-N	5.31	127.71	120.54
1	jv	130	TYR	C-N-CA	5.31	127.71	120.54
1	jE	153	ILE	CA-C-O	-5.31	116.27	121.58
1	jG	42	ALA	N-CA-C	5.31	118.22	111.69
1	jL	105	ALA	N-CA-C	5.31	118.88	112.93
1	jM	140	LYS	N-CA-C	5.31	116.75	111.07
1	1Y	123	PRO	N-CA-CB	5.31	107.97	103.19
1	jQ	24	VAL	N-CA-C	5.31	116.04	110.62
1	jT	100	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	jZ	185	MET	CG-SD-CE	-5.31	89.21	100.90
1	k3	161	PHE	CA-CB-CG	5.31	119.11	113.80
1	k6	129	ILE	CA-CB-CG1	5.31	119.43	110.40
1	ko	223	GLY	CA-C-N	5.31	125.61	119.93
1	ko	223	GLY	C-N-CA	5.31	125.61	119.93
1	kZ	188	THR	CA-C-N	5.31	127.34	120.44
1	kZ	188	THR	C-N-CA	5.31	127.34	120.44
1	l0	162	ARG	N-CA-C	5.31	117.49	111.11
1	l4	18	ARG	CA-C-N	5.31	127.40	120.28
1	l4	18	ARG	C-N-CA	5.31	127.40	120.28
1	l9	134	ILE	N-CA-C	5.31	116.08	110.72
1	ly	22	ALA	N-CA-C	5.31	117.76	111.33
1	29	88	ALA	CB-CA-C	-5.31	99.77	109.54
1	lD	120	HIS	CB-CG-CD2	-5.31	124.29	131.20
1	lE	82	ARG	CA-C-O	5.31	126.18	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2e	167	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	2o	112	GLN	CA-C-N	5.31	127.35	120.44
1	2o	112	GLN	C-N-CA	5.31	127.35	120.44
1	2q	96	MET	CG-SD-CE	-5.31	89.21	100.90
1	2z	5	ASN	N-CA-CB	-5.31	101.59	110.83
1	2I	162	ARG	O-C-N	-5.31	116.49	122.12
1	2N	73	ILE	O-C-N	5.31	127.12	121.91
1	2V	55	MET	CB-CA-C	-5.31	101.97	110.79
1	2V	192	GLN	CB-CG-CD	5.31	121.63	112.60
1	2Z	186	THR	CA-C-O	-5.31	114.79	120.42
1	30	109	SER	CA-C-N	5.31	129.28	120.94
1	30	109	SER	C-N-CA	5.31	129.28	120.94
1	30	142	VAL	N-CA-C	5.31	115.52	110.42
1	31	200	THR	OG1-CB-CG2	-5.31	98.68	109.30
1	36	24	VAL	CA-C-O	-5.31	115.43	120.95
1	39	65	ALA	CA-C-O	5.31	126.08	119.97
1	39	88	ALA	CA-C-N	5.31	130.21	121.87
1	39	88	ALA	C-N-CA	5.31	130.21	121.87
1	3c	87	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	3h	147	PRO	CA-C-O	-5.31	111.56	119.00
1	3v	130	TYR	O-C-N	-5.31	116.49	122.12
1	3x	143	ARG	CA-CB-CG	5.31	124.72	114.10
1	3D	96	MET	CA-C-O	5.31	127.35	121.56
1	3E	18	ARG	O-C-N	-5.31	116.09	122.15
1	3E	176	GLN	N-CA-C	-5.31	106.80	113.28
1	3S	166	ASP	O-C-N	-5.31	116.60	122.07
1	3W	75	GLU	N-CA-C	5.31	116.75	111.07
1	3Z	68	MET	O-C-N	-5.31	116.60	122.07
1	40	43	LEU	CA-C-O	5.31	126.05	120.42
1	42	148	THR	CA-C-N	-5.31	114.74	122.65
1	42	148	THR	C-N-CA	-5.31	114.74	122.65
1	4c	3	VAL	CA-C-N	5.31	129.28	120.94
1	4c	3	VAL	C-N-CA	5.31	129.28	120.94
1	4f	44	SER	CA-C-O	5.31	125.86	119.59
1	4g	96	MET	CA-C-O	-5.31	115.92	121.55
1	4r	150	ILE	CA-C-N	5.31	127.35	120.44
1	4r	150	ILE	C-N-CA	5.31	127.35	120.44
1	4J	74	ASN	CA-C-O	-5.31	114.92	120.55
1	4N	227	LYS	CA-C-O	5.31	127.18	121.55
1	4S	101	GLY	CA-C-N	5.31	127.83	120.29
1	4S	101	GLY	C-N-CA	5.31	127.83	120.29
1	50	99	PRO	N-CA-C	5.31	119.21	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	57	161	PHE	CA-C-N	5.31	129.64	121.19
1	57	161	PHE	C-N-CA	5.31	129.64	121.19
1	5b	23	TRP	CB-CG-CD2	5.31	134.24	126.80
1	5m	86	VAL	N-CA-C	5.31	116.23	108.53
1	5E	165	VAL	O-C-N	-5.31	116.72	121.87
1	5N	137	GLY	N-CA-C	5.31	119.11	112.73
1	5W	228	ALA	CA-C-N	5.31	128.25	120.71
1	5W	228	ALA	C-N-CA	5.31	128.25	120.71
1	5Y	42	ALA	N-CA-C	5.31	117.49	111.11
1	67	35	GLU	CA-C-O	5.31	126.18	120.55
1	67	79	GLU	O-C-N	-5.31	116.09	122.15
1	6a	156	GLY	CA-C-N	-5.31	114.30	120.04
1	6a	156	GLY	C-N-CA	-5.31	114.30	120.04
1	6e	181	VAL	CA-C-N	5.31	127.40	120.28
1	6e	181	VAL	C-N-CA	5.31	127.40	120.28
1	6A	185	MET	O-C-N	5.31	127.75	122.12
1	6G	89	GLY	CA-C-N	5.31	126.48	119.84
1	6G	89	GLY	C-N-CA	5.31	126.48	119.84
1	6N	184	TRP	CB-CG-CD1	-5.31	118.93	126.90
1	6W	50	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	70	82	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	7a	30	LYS	CA-C-N	5.31	131.69	121.54
1	7a	30	LYS	C-N-CA	5.31	131.69	121.54
1	7m	15	ILE	N-CA-C	5.31	120.39	109.34
1	7s	86	VAL	N-CA-CB	5.31	119.06	110.13
1	7x	95	GLN	CA-C-N	5.31	130.63	122.93
1	7x	95	GLN	C-N-CA	5.31	130.63	122.93
1	7D	223	GLY	CA-C-N	5.31	126.48	119.84
1	7D	223	GLY	C-N-CA	5.31	126.48	119.84
1	7H	176	GLN	CA-C-N	5.31	128.63	120.82
1	7H	176	GLN	C-N-CA	5.31	128.63	120.82
1	7N	196	PRO	O-C-N	-5.31	116.17	122.17
1	7X	14	ALA	CA-C-O	-5.31	115.92	121.55
1	8f	89	GLY	O-C-N	-5.31	116.46	121.77
1	8k	25	LYS	CB-CA-C	5.31	119.61	110.79
1	8r	63	GLN	OE1-CD-NE2	5.31	127.91	122.60
1	8s	227	LYS	CA-C-N	5.31	131.67	122.64
1	8s	227	LYS	C-N-CA	5.31	131.67	122.64
1	8t	93	PRO	CB-CA-C	5.31	118.31	111.56
1	8K	216	THR	CA-CB-CG2	-5.31	101.47	110.50
1	8O	53	ASN	O-C-N	-5.31	116.49	122.12
1	8P	74	ASN	N-CA-C	5.31	116.75	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	93	14	ALA	CA-C-N	5.31	127.69	120.63
1	93	14	ALA	C-N-CA	5.31	127.69	120.63
1	97	112	GLN	CA-C-O	-5.31	114.92	120.55
1	9g	194	ALA	O-C-N	-5.31	116.53	122.75
1	9o	120	HIS	N-CA-C	5.31	117.93	110.23
1	9p	102	SER	CA-C-N	5.31	127.40	120.28
1	9p	102	SER	C-N-CA	5.31	127.40	120.28
1	9u	67	GLN	CA-C-N	5.31	127.35	120.44
1	9u	67	GLN	C-N-CA	5.31	127.35	120.44
1	9G	87	HIS	CB-CG-CD2	5.31	138.10	131.20
1	9R	148	THR	CA-C-N	5.31	131.75	122.82
1	9R	148	THR	C-N-CA	5.31	131.75	122.82
1	9S	19	THR	N-CA-C	5.31	117.15	111.36
1	9U	77	ALA	CA-C-N	5.31	127.71	120.54
1	9U	77	ALA	C-N-CA	5.31	127.71	120.54
1	9V	117	TRP	N-CA-C	5.31	117.07	111.28
1	9Z	89	GLY	CA-C-N	5.31	126.48	119.84
1	9Z	89	GLY	C-N-CA	5.31	126.48	119.84
1	aa	133	TRP	CA-C-O	5.31	126.18	120.55
1	ab	119	THR	O-C-N	-5.31	115.81	122.24
1	ae	40	PHE	CA-CB-CG	5.31	119.11	113.80
1	al	77	ALA	CA-C-N	5.31	127.35	120.44
1	al	77	ALA	C-N-CA	5.31	127.35	120.44
1	ar	217	ALA	N-CA-C	-5.31	102.15	110.17
1	at	107	THR	O-C-N	-5.31	116.64	122.38
1	aA	42	ALA	O-C-N	-5.31	115.31	122.43
1	aM	176	GLN	N-CA-C	5.31	118.57	111.24
1	aZ	87	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	aZ	153	ILE	O-C-N	-5.31	116.69	122.64
1	b6	40	PHE	CB-CA-C	-5.31	100.47	110.67
1	17	179	GLN	CA-C-O	-5.31	114.92	120.55
1	bx	145	TYR	CB-CG-CD1	-5.31	112.83	120.80
1	bA	154	ARG	O-C-N	-5.31	117.53	123.48
1	bB	18	ARG	CB-CA-C	-5.31	101.82	110.85
1	bC	168	PHE	O-C-N	-5.31	116.35	122.09
1	bF	195	ASN	CB-CA-C	5.31	117.07	109.26
1	bL	182	LYS	CB-CA-C	-5.31	99.54	110.38
1	bR	167	ARG	NH1-CZ-NH2	-5.31	112.39	119.30
1	bT	211	LEU	CA-C-N	5.31	127.40	120.28
1	bT	211	LEU	C-N-CA	5.31	127.40	120.28
1	c5	76	GLU	O-C-N	-5.31	116.49	122.12
1	ca	23	TRP	CE2-CD2-CG	-5.31	100.83	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1d	100	ARG	NH1-CZ-NH2	-5.31	112.39	119.30
1	cl	52	LEU	CA-C-N	5.31	127.35	120.44
1	cl	52	LEU	C-N-CA	5.31	127.35	120.44
1	cq	26	VAL	CA-C-N	5.31	127.25	120.56
1	cq	26	VAL	C-N-CA	5.31	127.25	120.56
1	cF	100	ARG	NH1-CZ-NH2	-5.31	112.39	119.30
1	cG	4	GLN	CA-C-N	5.31	129.85	120.87
1	cG	4	GLN	C-N-CA	5.31	129.85	120.87
1	1g	169	TYR	CA-C-N	5.31	127.66	120.38
1	1g	169	TYR	C-N-CA	5.31	127.66	120.38
1	cO	24	VAL	N-CA-CB	-5.31	104.33	110.55
1	d0	199	LYS	CB-CG-CD	5.31	123.52	111.30
1	d7	77	ALA	CA-C-N	5.31	127.40	120.28
1	d7	77	ALA	C-N-CA	5.31	127.40	120.28
1	1j	156	GLY	CA-C-N	5.31	125.12	119.28
1	1j	156	GLY	C-N-CA	5.31	125.12	119.28
1	de	55	MET	CB-CA-C	-5.31	101.97	110.79
1	dj	219	GLN	CA-CB-CG	5.31	124.72	114.10
1	dq	139	ASN	CA-C-N	5.31	127.40	120.28
1	dq	139	ASN	C-N-CA	5.31	127.40	120.28
1	dx	112	GLN	CA-C-N	5.31	127.35	120.44
1	dx	112	GLN	C-N-CA	5.31	127.35	120.44
1	dI	209	ALA	CB-CA-C	-5.31	100.11	109.62
1	dO	53	ASN	CA-CB-CG	-5.31	107.29	112.60
1	1o	63	GLN	N-CA-CB	5.31	117.93	110.12
1	1o	142	VAL	CA-CB-CG1	5.31	119.43	110.40
1	e3	159	GLU	CB-CA-C	5.31	116.36	108.87
1	e6	60	GLY	CA-C-N	5.31	127.53	122.27
1	e6	60	GLY	C-N-CA	5.31	127.53	122.27
1	ek	151	LEU	N-CA-C	5.31	116.75	111.07
1	ep	150	ILE	N-CA-CB	5.31	116.77	110.55
1	er	80	TRP	N-CA-CB	5.31	117.93	110.12
1	eC	4	GLN	CA-C-N	5.31	132.27	122.92
1	eC	4	GLN	C-N-CA	5.31	132.27	122.92
1	eD	139	ASN	N-CA-C	5.31	117.07	111.28
1	1s	212	GLU	CA-C-N	5.31	127.83	120.29
1	1s	212	GLU	C-N-CA	5.31	127.83	120.29
1	eG	84	HIS	CB-CG-CD2	5.31	138.11	131.20
1	eH	36	VAL	CA-CB-CG1	5.31	119.43	110.40
1	eP	124	ILE	N-CA-C	5.31	113.28	107.60
1	eV	219	GLN	O-C-N	-5.31	115.81	122.24
1	f0	23	TRP	O-C-N	-5.31	116.51	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1v	119	THR	CA-C-N	5.31	129.85	120.87
1	1v	119	THR	C-N-CA	5.31	129.85	120.87
1	1v	128	GLU	CB-CA-C	-5.31	101.97	110.79
1	fu	198	CYS	CA-C-N	5.31	127.93	120.28
1	fu	198	CYS	C-N-CA	5.31	127.93	120.28
1	fz	71	GLU	N-CA-C	5.31	119.48	112.89
1	fC	224	PRO	N-CA-C	5.31	123.41	112.47
1	fK	52	LEU	O-C-N	-5.31	116.60	122.07
1	fY	174	ALA	CA-C-N	5.31	128.25	120.71
1	fY	174	ALA	C-N-CA	5.31	128.25	120.71
1	d	139	ASN	CA-C-N	5.31	127.40	120.28
1	d	139	ASN	C-N-CA	5.31	127.40	120.28
1	n	69	LEU	CA-C-N	5.31	127.40	120.28
1	n	69	LEU	C-N-CA	5.31	127.40	120.28
1	n	84	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	J	126	VAL	CA-C-N	5.31	125.84	119.94
1	J	126	VAL	C-N-CA	5.31	125.84	119.94
1	L	100	ARG	CA-C-N	5.31	125.84	119.94
1	L	100	ARG	C-N-CA	5.31	125.84	119.94
1	4	181	VAL	CB-CA-C	5.31	118.77	111.97
1	S	216	THR	N-CA-C	5.31	116.75	111.07
1	gd	161	PHE	O-C-N	5.31	127.75	122.12
1	ge	119	THR	CA-CB-OG1	5.31	117.57	109.60
1	gE	73	ILE	N-CA-CB	5.31	116.76	110.55
1	gI	8	GLY	CA-C-O	-5.31	116.73	122.47
1	gQ	190	LEU	N-CA-C	5.31	117.76	111.33
1	h3	87	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	hl	119	THR	CA-C-N	5.31	128.13	120.38
1	hl	119	THR	C-N-CA	5.31	128.13	120.38
1	hL	124	ILE	CA-CB-CG2	5.31	119.53	110.50
1	hT	184	TRP	N-CA-C	5.31	117.07	111.28
1	i1	198	CYS	O-C-N	-5.31	116.60	122.07
1	ie	82	ARG	N-CA-C	-5.31	106.30	112.89
1	1P	91	ILE	CA-C-N	5.31	127.77	120.39
1	1P	91	ILE	C-N-CA	5.31	127.77	120.39
1	iz	154	ARG	N-CA-C	5.31	117.08	108.26
1	iF	128	GLU	O-C-N	-5.31	116.49	122.12
1	iG	48	THR	CA-C-O	-5.31	115.39	120.97
1	1R	180	GLU	O-C-N	-5.31	116.60	122.07
1	iR	138	LEU	N-CA-C	5.31	117.15	111.36
1	ja	174	ALA	O-C-N	-5.31	115.31	122.43
1	ja	174	ALA	N-CA-C	5.31	119.02	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	147	PRO	CA-C-O	-5.31	117.38	121.31
1	jD	142	VAL	O-C-N	-5.31	116.36	121.83
1	ka	125	PRO	O-C-N	-5.31	115.47	122.64
1	kf	191	VAL	CA-C-O	5.31	126.79	121.27
1	ko	34	PRO	CA-C-N	5.31	129.18	120.63
1	ko	34	PRO	C-N-CA	5.31	129.18	120.63
1	kT	35	GLU	CA-C-N	5.31	128.86	120.47
1	kT	35	GLU	C-N-CA	5.31	128.86	120.47
1	l3	23	TRP	CA-C-N	5.31	128.02	120.53
1	l3	23	TRP	C-N-CA	5.31	128.02	120.53
1	l4	114	GLN	CA-C-N	5.31	129.01	120.30
1	l4	114	GLN	C-N-CA	5.31	129.01	120.30
1	l5	39	MET	CA-C-O	5.31	126.17	120.70
1	lj	175	GLU	CA-C-N	5.31	131.01	122.83
1	lj	175	GLU	C-N-CA	5.31	131.01	122.83
1	lw	13	GLN	CB-CG-CD	-5.31	103.57	112.60
1	lw	97	ARG	CA-C-O	-5.31	115.04	120.99
1	lE	37	ILE	CA-C-N	5.31	124.64	118.85
1	lE	37	ILE	C-N-CA	5.31	124.64	118.85
1	2b	168	PHE	CA-CB-CG	-5.31	108.49	113.80
1	2h	219	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	2w	227	LYS	N-CA-CB	-5.31	102.31	110.44
1	2R	212	GLU	CA-C-N	5.31	127.83	120.29
1	2R	212	GLU	C-N-CA	5.31	127.83	120.29
1	2V	143	ARG	N-CA-CB	5.31	119.33	110.41
1	2X	114	GLN	CG-CD-NE2	-5.31	108.43	116.40
1	3g	86	VAL	N-CA-C	5.31	120.39	109.34
1	3j	191	VAL	N-CA-C	-5.31	107.80	112.90
1	3G	9	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	3M	49	PRO	CA-C-O	-5.31	111.48	119.55
1	3M	195	ASN	CB-CG-ND2	5.31	124.37	116.40
1	41	195	ASN	N-CA-CB	-5.31	101.64	109.98
1	43	132	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	54	181	VAL	CA-C-O	5.31	126.47	120.95
1	58	10	MET	CG-SD-CE	-5.31	89.22	100.90
1	5A	35	GLU	CA-C-N	5.31	129.01	120.30
1	5A	35	GLU	C-N-CA	5.31	129.01	120.30
1	5Z	84	HIS	CA-C-N	5.31	125.57	119.83
1	5Z	84	HIS	C-N-CA	5.31	125.57	119.83
1	63	212	GLU	N-CA-C	5.31	117.07	111.28
1	6d	34	PRO	N-CA-C	5.31	123.41	112.47
1	6r	57	ASN	CA-CB-CG	-5.31	107.29	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	71	132	ARG	N-CA-CB	5.31	117.93	110.12
1	77	95	GLN	CA-C-N	-5.31	115.39	122.72
1	77	95	GLN	C-N-CA	-5.31	115.39	122.72
1	7d	24	VAL	N-CA-CB	5.31	118.55	110.58
1	7e	42	ALA	N-CA-CB	-5.31	102.31	110.01
1	7R	71	GLU	O-C-N	-5.31	116.49	122.12
1	8n	108	THR	CA-C-O	5.31	126.38	119.95
1	8F	114	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	8K	54	THR	CB-CA-C	-5.31	101.97	110.79
1	8P	78	ALA	CA-C-N	5.31	127.40	120.28
1	8P	78	ALA	C-N-CA	5.31	127.40	120.28
1	8Q	112	GLN	CA-C-N	5.31	127.66	120.44
1	8Q	112	GLN	C-N-CA	5.31	127.66	120.44
1	96	157	PRO	N-CA-C	-5.31	109.16	114.68
1	9t	143	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	11	189	LEU	CA-C-N	5.31	127.66	120.38
1	11	189	LEU	C-N-CA	5.31	127.66	120.38
1	aq	11	VAL	O-C-N	-5.31	117.14	123.03
1	aB	180	GLU	CA-C-N	5.31	127.74	120.46
1	aB	180	GLU	C-N-CA	5.31	127.74	120.46
1	aH	24	VAL	CA-C-N	5.31	127.40	120.28
1	aH	24	VAL	C-N-CA	5.31	127.40	120.28
1	14	68	MET	CA-C-O	5.31	126.18	120.55
1	aW	210	THR	CA-C-N	5.31	127.66	120.38
1	aW	210	THR	C-N-CA	5.31	127.66	120.38
1	b0	4	GLN	N-CA-CB	5.31	119.47	110.49
1	b1	98	GLU	N-CA-C	5.31	116.36	109.72
1	b2	12	HIS	N-CA-C	5.31	118.20	109.76
1	bd	54	THR	N-CA-CB	5.31	117.85	109.94
1	bw	53	ASN	CB-CG-ND2	5.31	124.37	116.40
1	bD	12	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	bD	217	ALA	N-CA-C	5.31	117.99	110.50
1	bF	55	MET	CA-C-O	-5.31	115.22	120.90
1	cQ	5	ASN	N-CA-C	5.31	119.02	112.54
1	cT	33	SER	N-CA-C	-5.31	103.34	108.07
1	e5	152	ASP	O-C-N	-5.31	115.70	122.34
1	eb	97	ARG	CA-C-O	5.31	127.03	121.19
1	ex	217	ALA	N-CA-C	5.31	117.99	110.50
1	eF	48	THR	N-CA-C	5.31	116.24	110.13
1	eN	13	GLN	O-C-N	-5.31	116.98	123.19
1	f3	38	PRO	N-CA-CB	5.31	108.40	103.46
1	f6	103	ASP	CA-C-O	-5.31	114.92	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1w	81	ASP	CB-CA-C	-5.31	101.82	110.85
1	fC	57	ASN	CA-C-N	5.31	127.93	120.28
1	fC	57	ASN	C-N-CA	5.31	127.93	120.28
1	fJ	2	ILE	N-CA-C	5.31	117.28	109.63
1	fL	186	THR	CA-C-O	5.31	126.40	120.82
1	fO	75	GLU	N-CA-CB	5.31	117.71	110.01
1	fQ	136	LEU	CB-CA-C	5.31	119.61	110.79
1	fQ	195	ASN	CA-CB-CG	5.31	117.91	112.60
1	u	9	GLN	CA-C-O	5.31	126.65	120.49
1	y	40	PHE	CA-CB-CG	-5.31	108.49	113.80
1	J	209	ALA	N-CA-C	5.31	117.40	109.59
1	L	216	THR	CA-C-N	5.31	128.38	120.31
1	L	216	THR	C-N-CA	5.31	128.38	120.31
1	ga	202	LEU	N-CA-C	-5.31	105.39	111.07
1	gb	175	GLU	CA-CB-CG	5.31	124.72	114.10
1	gp	194	ALA	CB-CA-C	5.31	119.12	109.62
1	gB	21	ASN	CB-CG-OD1	5.31	131.42	120.80
1	gL	222	GLY	CA-C-O	-5.31	117.74	121.88
1	1G	167	ARG	CA-C-N	5.31	127.66	120.65
1	1G	167	ARG	C-N-CA	5.31	127.66	120.65
1	gW	104	ILE	CB-CA-C	5.31	119.31	112.14
1	gX	167	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	h2	38	PRO	CB-CA-C	-5.31	104.36	112.11
1	hb	118	MET	CA-C-O	5.31	126.39	120.82
1	hg	46	GLY	CA-C-N	5.31	128.25	120.71
1	hg	46	GLY	C-N-CA	5.31	128.25	120.71
1	hh	15	ILE	N-CA-C	5.31	117.28	109.63
1	hi	173	ARG	CA-C-O	5.31	126.08	119.97
1	hm	226	HIS	O-C-N	-5.31	116.33	122.86
1	hD	183	ASN	CB-CG-ND2	5.31	124.36	116.40
1	hE	195	ASN	O-C-N	-5.31	116.57	121.30
1	hN	30	LYS	CA-C-O	5.31	125.45	119.18
1	hN	204	ALA	N-CA-C	5.31	117.07	111.28
1	i2	63	GLN	CA-C-N	5.31	127.39	120.28
1	i2	63	GLN	C-N-CA	5.31	127.39	120.28
1	i5	40	PHE	CA-CB-CG	-5.31	108.49	113.80
1	ia	95	GLN	CG-CD-NE2	-5.31	108.44	116.40
1	1O	211	LEU	CD1-CG-CD2	-5.31	99.12	110.80
1	ie	132	ARG	CA-C-N	5.31	127.83	120.29
1	ie	132	ARG	C-N-CA	5.31	127.83	120.29
1	ir	159	GLU	N-CA-C	5.31	116.36	109.72
1	it	5	ASN	OD1-CG-ND2	-5.31	117.29	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	it	98	GLU	O-C-N	-5.31	115.69	121.53
1	it	163	ASP	CA-CB-CG	-5.31	107.29	112.60
1	iw	216	THR	OG1-CB-CG2	-5.31	98.68	109.30
1	1Q	170	LYS	N-CA-C	5.31	117.81	111.71
1	iI	90	PRO	N-CA-C	5.31	119.55	111.11
1	iN	30	LYS	O-C-N	-5.31	115.82	122.35
1	iR	88	ALA	N-CA-C	5.31	117.14	110.24
1	1T	27	VAL	N-CA-C	5.31	116.08	110.72
1	j4	59	VAL	CA-CB-CG1	5.31	119.43	110.40
1	j5	96	MET	N-CA-C	5.31	117.57	110.35
1	j9	36	VAL	N-CA-C	5.31	116.67	110.62
1	j9	93	PRO	CB-CA-C	-5.31	104.36	112.11
1	jd	91	ILE	N-CA-C	-5.31	107.80	112.90
1	jh	146	SER	O-C-N	-5.31	116.12	121.27
1	jE	66	MET	N-CA-C	5.31	117.82	111.71
1	jE	227	LYS	CA-C-O	5.31	125.95	119.05
1	jS	133	TRP	CA-C-N	5.31	127.25	120.56
1	jS	133	TRP	C-N-CA	5.31	127.25	120.56
1	k1	18	ARG	N-CA-CB	5.31	118.48	110.30
1	kf	138	LEU	CA-C-O	-5.31	114.79	120.42
1	21	174	ALA	N-CA-C	5.31	117.98	111.82
1	kp	226	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	kt	228	ALA	N-CA-C	5.31	117.57	110.35
1	kv	117	TRP	CD2-CE2-CZ2	-5.31	117.09	122.40
1	kx	217	ALA	CA-C-O	-5.31	115.77	121.56
1	kC	137	GLY	O-C-N	-5.31	116.23	122.34
1	kU	75	GLU	N-CA-CB	-5.31	102.32	110.12
1	26	87	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	ld	122	PRO	CA-C-N	5.31	126.48	119.84
1	ld	122	PRO	C-N-CA	5.31	126.48	119.84
1	lm	106	GLY	O-C-N	-5.31	115.77	122.41
1	ln	184	TRP	N-CA-C	5.31	117.15	111.36
1	28	136	LEU	CA-C-O	-5.31	114.79	120.42
1	lw	87	HIS	CB-CG-CD2	-5.31	124.30	131.20
1	lI	29	GLU	O-C-N	-5.31	116.60	122.07
1	2b	66	MET	CG-SD-CE	5.31	112.58	100.90
1	2k	166	ASP	CA-CB-CG	5.31	117.91	112.60
1	2q	126	VAL	CB-CA-C	-5.31	103.93	112.16
1	2P	131	LYS	CA-C-O	5.31	126.18	120.55
1	2R	11	VAL	CA-C-N	-5.31	113.53	122.29
1	2R	11	VAL	C-N-CA	-5.31	113.53	122.29
1	2R	223	GLY	CA-C-N	5.31	125.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2R	223	GLY	C-N-CA	5.31	125.32	119.90
1	2W	148	THR	OG1-CB-CG2	-5.31	98.68	109.30
1	35	169	TYR	N-CA-CB	5.31	117.93	110.12
1	39	136	LEU	O-C-N	-5.31	116.49	122.12
1	3b	152	ASP	O-C-N	-5.31	114.87	122.41
1	3w	24	VAL	CA-C-N	5.31	127.34	120.44
1	3w	24	VAL	C-N-CA	5.31	127.34	120.44
1	3S	19	THR	CA-C-O	5.31	128.10	120.51
1	3V	56	LEU	CA-C-O	-5.31	114.79	120.42
1	42	84	HIS	O-C-N	-5.31	115.58	121.53
1	43	229	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	49	146	SER	CA-C-O	-5.31	114.91	120.70
1	4a	128	GLU	O-C-N	-5.31	116.60	122.07
1	4f	59	VAL	N-CA-CB	5.31	117.14	111.46
1	4l	172	LEU	O-C-N	-5.31	115.04	122.37
1	4x	195	ASN	CA-C-N	5.31	126.48	119.84
1	4x	195	ASN	C-N-CA	5.31	126.48	119.84
1	4X	214	MET	CA-C-N	5.31	127.39	120.28
1	4X	214	MET	C-N-CA	5.31	127.39	120.28
1	52	230	VAL	O-C-N	-5.31	117.61	123.18
1	54	66	MET	N-CA-C	5.31	117.48	111.11
1	54	191	VAL	CA-C-N	5.31	127.65	120.38
1	54	191	VAL	C-N-CA	5.31	127.65	120.38
1	56	191	VAL	N-CA-C	5.31	117.69	111.05
1	5b	84	HIS	CA-CB-CG	-5.31	108.49	113.80
1	5d	34	PRO	N-CA-C	5.31	120.74	113.84
1	5g	18	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	5h	173	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	5j	47	ALA	CB-CA-C	5.31	118.73	109.65
1	5F	47	ALA	N-CA-C	5.31	118.01	110.10
1	5Q	225	GLY	CA-C-O	5.31	125.67	119.19
1	5X	198	CYS	CA-C-N	5.31	127.92	120.28
1	5X	198	CYS	C-N-CA	5.31	127.92	120.28
1	5Z	84	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	60	120	HIS	CA-CB-CG	-5.31	108.49	113.80
1	65	117	TRP	O-C-N	-5.31	116.49	122.12
1	6i	26	VAL	CA-C-O	-5.31	115.43	120.95
1	6i	59	VAL	CA-C-O	-5.31	115.75	121.27
1	6t	163	ASP	CA-C-N	5.31	127.34	120.44
1	6t	163	ASP	C-N-CA	5.31	127.34	120.44
1	6D	145	TYR	CG-CD1-CE1	-5.31	113.24	121.20
1	6S	228	ALA	N-CA-C	5.31	118.88	112.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	188	THR	N-CA-C	-5.31	108.57	114.62
1	79	203	LYS	N-CA-C	5.31	117.98	111.82
1	7k	96	MET	CA-C-N	5.31	128.41	120.87
1	7k	96	MET	C-N-CA	5.31	128.41	120.87
1	7p	208	ALA	N-CA-C	5.31	118.76	111.54
1	7v	43	LEU	N-CA-CB	-5.31	102.05	110.28
1	7x	131	LYS	N-CA-C	5.31	117.07	111.28
1	7C	216	THR	O-C-N	-5.31	115.73	122.26
1	7F	192	GLN	CA-C-O	5.31	126.18	120.55
1	7G	59	VAL	CB-CA-C	-5.31	105.56	111.35
1	7U	92	GLU	CA-C-N	5.31	126.48	119.84
1	7U	92	GLU	C-N-CA	5.31	126.48	119.84
1	8a	177	ALA	O-C-N	-5.31	116.60	122.86
1	8h	18	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	8j	25	LYS	CA-C-N	5.31	127.25	120.56
1	8j	25	LYS	C-N-CA	5.31	127.25	120.56
1	8u	122	PRO	N-CD-CG	5.31	110.17	103.80
1	8E	193	ASN	OD1-CG-ND2	-5.31	117.29	122.60
1	8H	12	HIS	CA-C-N	5.31	130.90	122.94
1	8H	12	HIS	C-N-CA	5.31	130.90	122.94
1	8N	199	LYS	CA-C-N	5.31	127.71	120.54
1	8N	199	LYS	C-N-CA	5.31	127.71	120.54
1	8R	76	GLU	N-CA-C	5.31	117.07	111.28
1	8V	7	GLN	OE1-CD-NE2	5.31	127.91	122.60
1	8X	109	SER	CB-CA-C	5.31	120.16	109.38
1	90	108	THR	CB-CA-C	-5.31	100.10	109.02
1	9e	10	MET	CG-SD-CE	-5.31	89.22	100.90
1	9t	71	GLU	N-CA-C	5.31	117.82	111.71
1	9t	195	ASN	CA-C-O	-5.31	114.65	120.17
1	9C	200	THR	CA-C-N	5.31	127.25	120.56
1	9C	200	THR	C-N-CA	5.31	127.25	120.56
1	9G	116	GLY	O-C-N	-5.31	116.61	122.24
1	Z	183	ASN	OD1-CG-ND2	5.31	127.91	122.60
1	a4	21	ASN	CA-C-N	5.31	127.34	120.44
1	a4	21	ASN	C-N-CA	5.31	127.34	120.44
1	a5	195	ASN	N-CA-C	5.31	121.54	109.81
1	aa	4	GLN	CA-C-N	5.31	127.39	120.28
1	aa	4	GLN	C-N-CA	5.31	127.39	120.28
1	ab	142	VAL	CA-C-N	5.31	127.34	120.44
1	ab	142	VAL	C-N-CA	5.31	127.34	120.44
1	ab	167	ARG	NE-CZ-NH2	-5.31	114.42	119.20
1	aj	124	ILE	CB-CA-C	5.31	116.89	110.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	al	85	PRO	O-C-N	5.31	129.81	122.64
1	ar	26	VAL	O-C-N	-5.31	116.72	121.87
1	ay	103	ASP	CA-C-O	5.31	126.05	120.42
1	aI	5	ASN	CA-CB-CG	-5.31	107.29	112.60
1	aN	4	GLN	O-C-N	-5.31	116.83	123.04
1	aS	155	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	b2	204	ALA	O-C-N	-5.31	115.13	122.46
1	bf	136	LEU	CA-C-O	5.31	126.18	120.55
1	bv	40	PHE	CA-CB-CG	-5.31	108.49	113.80
1	bM	66	MET	N-CA-CB	5.31	117.71	110.01
1	bQ	19	THR	N-CA-CB	-5.31	102.31	110.12
1	bX	135	ILE	O-C-N	5.31	127.02	121.87
1	c3	162	ARG	CA-C-O	5.31	126.58	120.90
1	1c	26	VAL	O-C-N	5.31	127.42	121.90
1	c8	210	THR	CA-C-N	5.31	127.66	120.38
1	c8	210	THR	C-N-CA	5.31	127.66	120.38
1	1d	12	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	cg	15	ILE	N-CA-C	5.31	116.10	108.93
1	co	197	ASP	N-CA-C	5.31	117.07	111.28
1	1e	112	GLN	CG-CD-NE2	5.31	124.36	116.40
1	cA	138	LEU	CA-C-N	5.31	127.65	120.38
1	cA	138	LEU	C-N-CA	5.31	127.65	120.38
1	cM	159	GLU	CA-C-N	5.31	126.48	119.84
1	cM	159	GLU	C-N-CA	5.31	126.48	119.84
1	cS	226	HIS	O-C-N	-5.31	115.53	122.59
1	cU	155	GLN	CA-CB-CG	-5.31	103.48	114.10
1	cW	105	ALA	N-CA-C	-5.31	106.39	112.92
1	cZ	99	PRO	CB-CA-C	-5.31	104.90	111.11
1	cZ	191	VAL	CA-C-O	5.31	124.00	119.38
1	d2	36	VAL	CA-CB-CG1	5.31	119.42	110.40
1	d7	228	ALA	CA-C-O	5.31	128.10	120.51
1	dg	226	HIS	ND1-CG-CD2	-5.31	100.79	106.10
1	dv	42	ALA	N-CA-C	5.31	117.98	111.82
1	dv	168	PHE	CA-CB-CG	-5.31	108.49	113.80
1	dx	15	ILE	O-C-N	-5.31	117.64	122.79
1	1l	58	THR	CA-C-N	5.31	127.69	120.63
1	1l	58	THR	C-N-CA	5.31	127.69	120.63
1	dL	25	LYS	N-CA-CB	5.31	118.55	110.42
1	dP	140	LYS	CB-CG-CD	5.31	123.51	111.30
1	dU	87	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	dY	194	ALA	CB-CA-C	5.31	120.64	109.65
1	e0	56	LEU	CB-CA-C	-5.31	101.98	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e0	113	GLU	CA-C-O	5.31	126.18	120.55
1	e8	186	THR	OG1-CB-CG2	-5.31	98.68	109.30
1	ea	183	ASN	CA-C-O	5.31	126.18	120.55
1	eb	131	LYS	CA-CB-CG	5.31	124.72	114.10
1	ee	209	ALA	CA-C-O	-5.31	115.92	121.55
1	1s	62	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	eG	57	ASN	CB-CG-ND2	-5.31	108.44	116.40
1	eL	31	ALA	CB-CA-C	-5.31	101.98	110.79
1	eL	47	ALA	CA-C-N	5.31	128.75	120.68
1	eL	47	ALA	C-N-CA	5.31	128.75	120.68
1	1t	197	ASP	O-C-N	-5.31	116.10	122.15
1	eV	111	LEU	O-C-N	-5.31	116.60	122.07
1	eY	73	ILE	N-CA-C	5.31	115.93	110.36
1	f1	27	VAL	CA-C-O	5.31	126.57	121.05
1	f2	16	SER	O-C-N	-5.31	116.69	121.31
1	1v	47	ALA	CB-CA-C	5.31	118.39	109.89
1	1v	81	ASP	O-C-N	-5.31	115.13	122.46
1	fg	161	PHE	CA-CB-CG	-5.31	108.49	113.80
1	fj	58	THR	N-CA-CB	5.31	119.33	110.41
1	fo	206	GLY	CA-C-O	-5.31	113.93	121.52
1	fA	227	LYS	N-CA-C	5.31	117.07	111.28
1	fB	123	PRO	CB-CA-C	5.31	117.94	110.98
1	fK	161	PHE	CA-C-O	5.31	126.10	120.10
1	fM	169	TYR	CD1-CG-CD2	5.31	126.06	118.10
1	fN	121	ASN	N-CA-CB	5.31	117.86	110.11
1	1z	54	THR	O-C-N	-5.31	116.49	122.12
1	fT	84	HIS	CB-CA-C	-5.31	104.28	110.17
1	fT	115	ILE	N-CA-CB	-5.31	103.32	110.54
1	fY	120	HIS	CA-C-O	-5.31	115.77	121.56
1	g3	206	GLY	O-C-N	-5.31	116.46	121.77
1	d	174	ALA	CA-C-O	-5.31	112.85	119.38
1	1	134	ILE	O-C-N	-5.31	116.38	121.90
1	r	199	LYS	O-C-N	-5.31	116.49	122.12
1	w	59	VAL	N-CA-CB	5.31	117.25	110.13
1	D	152	ASP	N-CA-C	5.31	119.02	112.54
1	H	153	ILE	CB-CA-C	5.31	118.45	111.33
1	I	229	ARG	N-CA-C	5.31	118.76	110.32
1	J	183	ASN	N-CA-C	5.31	116.75	111.07
1	P	54	THR	CA-CB-OG1	5.31	117.57	109.60
1	7	144	MET	CG-SD-CE	5.31	112.58	100.90
1	9	111	LEU	N-CA-CB	5.31	117.71	110.01
1	gk	155	GLN	CA-C-O	5.31	126.97	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gp	199	LYS	CA-C-O	5.31	126.10	120.10
1	gq	10	MET	O-C-N	-5.31	115.22	122.33
1	gM	93	PRO	CA-C-N	5.31	129.62	121.45
1	gM	93	PRO	C-N-CA	5.31	129.62	121.45
1	gM	132	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	gN	228	ALA	N-CA-CB	-5.31	103.40	111.15
1	gT	2	ILE	O-C-N	-5.31	117.14	123.03
1	h1	198	CYS	N-CA-C	5.31	118.22	111.69
1	h8	14	ALA	CA-C-N	5.31	127.61	120.50
1	h8	14	ALA	C-N-CA	5.31	127.61	120.50
1	h8	191	VAL	CA-C-N	5.31	127.39	120.28
1	h8	191	VAL	C-N-CA	5.31	127.39	120.28
1	he	114	GLN	CG-CD-NE2	5.31	124.36	116.40
1	hi	149	SER	N-CA-CB	5.31	119.46	110.49
1	ht	88	ALA	N-CA-C	5.31	116.75	111.07
1	1K	135	ILE	CA-C-N	5.31	127.39	120.28
1	1K	135	ILE	C-N-CA	5.31	127.39	120.28
1	hB	80	TRP	NE1-CE2-CD2	5.31	114.30	107.40
1	hT	95	GLN	CB-CG-CD	-5.31	103.58	112.60
1	hU	68	MET	CA-C-O	5.31	126.18	120.55
1	hU	108	THR	CA-C-N	-5.31	113.17	121.87
1	hU	108	THR	C-N-CA	-5.31	113.17	121.87
1	i5	36	VAL	N-CA-C	5.31	116.08	110.72
1	ia	103	ASP	CA-C-N	5.31	127.96	120.42
1	ia	103	ASP	C-N-CA	5.31	127.96	120.42
1	io	220	GLY	O-C-N	-5.31	115.98	122.30
1	iu	76	GLU	CA-C-O	-5.31	114.92	120.55
1	ix	144	MET	N-CA-C	5.31	117.75	111.33
1	iN	183	ASN	CA-CB-CG	-5.31	107.29	112.60
1	1S	196	PRO	N-CA-C	5.31	121.66	113.75
1	j9	139	ASN	CA-C-N	5.31	127.34	120.44
1	j9	139	ASN	C-N-CA	5.31	127.34	120.44
1	ja	51	ASP	CA-C-O	5.31	126.05	120.42
1	jb	197	ASP	N-CA-C	5.31	116.75	111.07
1	jd	141	ILE	N-CA-C	5.31	115.51	110.42
1	jm	71	GLU	CA-C-N	5.31	127.39	120.28
1	jm	71	GLU	C-N-CA	5.31	127.39	120.28
1	jo	111	LEU	O-C-N	-5.31	116.49	122.12
1	js	127	GLY	O-C-N	-5.31	117.10	122.19
1	jv	144	MET	CA-C-N	5.31	129.59	120.72
1	jv	144	MET	C-N-CA	5.31	129.59	120.72
1	jy	56	LEU	CA-C-O	5.31	126.39	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jG	68	MET	CA-C-O	5.31	126.07	119.97
1	jK	13	GLN	O-C-N	-5.31	116.71	123.24
1	jW	161	PHE	O-C-N	5.31	127.75	122.12
1	jZ	37	ILE	O-C-N	-5.31	116.30	120.07
1	k8	12	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	ka	192	GLN	O-C-N	-5.31	115.74	122.27
1	kb	39	MET	CG-SD-CE	-5.31	89.22	100.90
1	kg	11	VAL	CA-C-N	5.31	128.38	120.95
1	kg	11	VAL	C-N-CA	5.31	128.38	120.95
1	23	171	THR	CA-CB-CG2	5.31	119.52	110.50
1	kL	23	TRP	CD2-CE2-CZ2	-5.31	117.09	122.40
1	kR	186	THR	O-C-N	-5.31	116.60	122.07
1	kS	23	TRP	CA-CB-CG	5.31	123.69	113.60
1	kY	180	GLU	O-C-N	-5.31	116.49	122.12
1	l1	109	SER	N-CA-C	5.31	118.05	109.40
1	26	8	GLY	N-CA-C	-5.31	106.35	112.29
1	le	19	THR	N-CA-C	5.31	117.14	111.36
1	ll	27	VAL	CA-C-N	5.31	127.39	120.28
1	ll	27	VAL	C-N-CA	5.31	127.39	120.28
1	lu	166	ASP	CA-C-N	5.31	127.34	120.44
1	lu	166	ASP	C-N-CA	5.31	127.34	120.44
1	2c	103	ASP	CA-C-O	5.31	126.18	120.55
1	2i	200	THR	N-CA-C	5.31	116.75	111.07
1	2k	77	ALA	CA-C-N	5.31	127.83	120.29
1	2k	77	ALA	C-N-CA	5.31	127.83	120.29
1	2k	226	HIS	CA-C-N	5.31	127.65	120.38
1	2k	226	HIS	C-N-CA	5.31	127.65	120.38
1	2l	182	LYS	N-CA-C	5.31	117.75	111.33
1	2r	44	SER	CB-CA-C	-5.31	102.47	111.02
1	2v	56	LEU	CA-C-N	5.31	129.70	120.68
1	2v	56	LEU	C-N-CA	5.31	129.70	120.68
1	2x	98	GLU	N-CA-CB	5.31	119.39	109.68
1	2B	174	ALA	N-CA-CB	-5.31	102.63	110.49
1	31	51	ASP	CA-CB-CG	-5.31	107.29	112.60
1	33	48	THR	CA-C-O	-5.31	115.17	120.96
1	38	130	TYR	CA-C-N	5.31	127.65	120.38
1	38	130	TYR	C-N-CA	5.31	127.65	120.38
1	3b	38	PRO	CA-C-N	5.31	127.70	120.54
1	3b	38	PRO	C-N-CA	5.31	127.70	120.54
1	3b	177	ALA	CA-C-O	-5.31	115.77	121.56
1	3e	38	PRO	CA-C-N	5.31	128.17	120.79
1	3e	38	PRO	C-N-CA	5.31	128.17	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3g	62	HIS	CA-CB-CG	-5.31	108.49	113.80
1	3z	50	GLN	CA-C-N	5.31	127.70	120.54
1	3z	50	GLN	C-N-CA	5.31	127.70	120.54
1	3G	175	GLU	CA-CB-CG	5.31	124.72	114.10
1	3O	166	ASP	N-CA-C	5.31	117.15	111.36
1	4d	47	ALA	O-C-N	-5.31	117.00	123.16
1	4g	162	ARG	NE-CZ-NH2	5.31	123.98	119.20
1	4i	76	GLU	CA-C-O	5.31	126.05	120.42
1	4t	68	MET	CB-CA-C	5.31	119.87	110.85
1	4w	33	SER	CA-C-O	5.31	125.38	120.50
1	4C	126	VAL	CA-C-O	-5.31	115.22	120.85
1	4I	35	GLU	CA-C-N	5.31	127.73	120.46
1	4I	35	GLU	C-N-CA	5.31	127.73	120.46
1	4P	110	THR	CA-CB-OG1	5.31	117.56	109.60
1	4S	91	ILE	O-C-N	-5.31	117.53	123.26
1	4S	129	ILE	O-C-N	-5.31	116.36	121.83
1	55	57	ASN	CA-C-N	5.31	127.83	120.29
1	55	57	ASN	C-N-CA	5.31	127.83	120.29
1	55	229	ARG	O-C-N	-5.31	115.45	122.40
1	57	163	ASP	CA-C-N	5.31	127.39	120.28
1	57	163	ASP	C-N-CA	5.31	127.39	120.28
1	5d	41	SER	N-CA-C	5.31	117.07	111.28
1	5g	82	ARG	CB-CA-C	5.31	119.21	110.88
1	5h	15	ILE	CA-C-O	5.31	126.90	120.85
1	5n	190	LEU	O-C-N	-5.31	116.50	122.12
1	5q	161	PHE	N-CA-CB	5.31	117.92	110.12
1	5E	175	GLU	O-C-N	-5.31	117.06	123.27
1	5H	74	ASN	CA-C-N	5.31	127.34	120.44
1	5H	74	ASN	C-N-CA	5.31	127.34	120.44
1	5I	47	ALA	CA-C-O	-5.31	114.87	120.92
1	5V	141	ILE	CA-C-N	5.31	127.25	120.56
1	5V	141	ILE	C-N-CA	5.31	127.25	120.56
1	62	105	ALA	N-CA-CB	-5.31	102.32	110.44
1	66	176	GLN	CA-C-N	5.31	129.27	120.94
1	66	176	GLN	C-N-CA	5.31	129.27	120.94
1	6c	75	GLU	CA-C-N	5.31	127.65	120.38
1	6c	75	GLU	C-N-CA	5.31	127.65	120.38
1	6i	64	ALA	O-C-N	-5.31	115.74	122.27
1	6p	186	THR	CB-CA-C	-5.31	101.83	110.85
1	6t	130	TYR	CA-C-N	5.31	127.34	120.44
1	6t	130	TYR	C-N-CA	5.31	127.34	120.44
1	6B	85	PRO	CA-C-N	5.31	131.52	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6B	85	PRO	C-N-CA	5.31	131.52	121.97
1	6R	184	TRP	N-CA-C	-5.31	105.39	111.07
1	75	59	VAL	N-CA-C	5.31	116.39	108.54
1	77	192	GLN	CG-CD-NE2	5.31	124.36	116.40
1	78	226	HIS	CA-C-O	5.31	125.44	119.18
1	7h	5	ASN	CA-C-O	-5.31	112.92	120.51
1	7j	31	ALA	N-CA-C	5.31	117.75	111.33
1	7k	9	GLN	N-CA-C	-5.31	106.03	112.88
1	7k	67	GLN	N-CA-C	5.31	117.75	111.33
1	7m	81	ASP	N-CA-C	5.31	117.06	111.28
1	7n	166	ASP	CA-C-N	5.31	127.39	120.28
1	7n	166	ASP	C-N-CA	5.31	127.39	120.28
1	7G	114	GLN	OE1-CD-NE2	5.31	127.91	122.60
1	82	3	VAL	N-CA-CB	5.31	119.99	111.23
1	85	187	GLU	CA-C-O	-5.31	113.87	119.97
1	85	197	ASP	CA-C-N	5.31	127.39	120.28
1	85	197	ASP	C-N-CA	5.31	127.39	120.28
1	8c	133	TRP	CB-CG-CD1	5.31	134.86	126.90
1	8s	148	THR	O-C-N	-5.31	117.11	123.27
1	8t	213	GLU	N-CA-C	5.31	117.07	111.28
1	8E	162	ARG	CA-CB-CG	5.31	124.72	114.10
1	8Z	110	THR	CA-C-O	-5.31	114.71	120.81
1	96	141	ILE	CA-C-N	5.31	128.01	120.53
1	96	141	ILE	C-N-CA	5.31	128.01	120.53
1	9d	88	ALA	N-CA-CB	-5.31	102.32	110.12
1	9h	126	VAL	CA-C-O	5.31	125.62	119.36
1	9j	144	MET	CA-C-N	5.31	130.88	122.60
1	9j	144	MET	C-N-CA	5.31	130.88	122.60
1	9x	189	LEU	O-C-N	-5.31	116.10	122.15
1	9G	131	LYS	CA-C-O	5.31	126.05	120.42
1	9K	185	MET	N-CA-C	5.31	116.75	111.07
1	9R	220	GLY	O-C-N	-5.31	115.80	122.70
1	9V	154	ARG	N-CA-CB	5.31	119.63	111.24
1	9Y	62	HIS	CA-C-O	5.31	127.86	121.65
1	aa	196	PRO	CA-C-O	-5.31	111.48	119.55
1	ai	68	MET	CA-C-O	5.31	126.18	120.55
1	al	76	GLU	CB-CA-C	-5.31	102.51	110.90
1	ap	113	GLU	CA-C-N	5.31	127.39	120.28
1	ap	113	GLU	C-N-CA	5.31	127.39	120.28
1	aq	59	VAL	CA-CB-CG1	5.31	119.42	110.40
1	aw	7	GLN	N-CA-C	5.31	117.14	110.24
1	aB	103	ASP	CA-C-O	5.31	126.13	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aE	214	MET	N-CA-CB	5.31	118.39	110.22
1	aH	90	PRO	N-CD-CG	-5.31	95.24	103.20
1	14	37	ILE	N-CA-CB	5.31	114.59	110.45
1	aQ	21	ASN	OD1-CG-ND2	-5.31	117.29	122.60
1	aW	135	ILE	CA-CB-CG2	5.31	119.52	110.50
1	b6	15	ILE	CA-C-N	5.31	130.11	121.83
1	b6	15	ILE	C-N-CA	5.31	130.11	121.83
1	b8	29	GLU	CA-C-O	-5.31	115.23	120.70
1	b8	192	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	b8	206	GLY	CA-C-N	5.31	126.47	119.84
1	b8	206	GLY	C-N-CA	5.31	126.47	119.84
1	bb	76	GLU	CA-C-N	5.31	127.39	120.28
1	bb	76	GLU	C-N-CA	5.31	127.39	120.28
1	bb	152	ASP	O-C-N	-5.31	115.93	122.25
1	be	154	ARG	N-CA-CB	-5.31	101.65	111.52
1	bg	162	ARG	NH1-CZ-NH2	-5.31	112.40	119.30
1	bp	72	THR	N-CA-C	5.31	117.15	111.36
1	bu	200	THR	CB-CA-C	-5.31	101.83	110.85
1	bz	1	PRO	N-CA-CB	5.31	108.84	103.00
1	bz	214	MET	N-CA-C	5.31	117.07	111.28
1	bP	213	GLU	O-C-N	-5.31	116.60	122.07
1	bS	117	TRP	CE2-CD2-CE3	5.31	124.11	118.80
1	c6	199	LYS	CA-C-O	5.31	126.36	120.63
1	c8	63	GLN	N-CA-C	5.31	117.14	111.36
1	1d	112	GLN	CB-CG-CD	5.31	121.62	112.60
1	ci	80	TRP	CA-C-N	5.31	127.34	120.44
1	ci	80	TRP	C-N-CA	5.31	127.34	120.44
1	cH	129	ILE	CA-C-N	5.31	127.39	120.28
1	cH	129	ILE	C-N-CA	5.31	127.39	120.28
1	cS	58	THR	N-CA-CB	5.31	118.79	110.46
1	cX	63	GLN	O-C-N	-5.31	115.49	122.39
1	d6	198	CYS	CA-C-N	5.31	127.39	120.28
1	d6	198	CYS	C-N-CA	5.31	127.39	120.28
1	d9	176	GLN	OE1-CD-NE2	-5.31	117.29	122.60
1	db	133	TRP	CG-CD2-CE3	5.31	139.21	133.90
1	dd	84	HIS	CB-CA-C	-5.31	102.59	110.71
1	dj	12	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	dn	22	ALA	CA-C-N	5.31	127.34	120.44
1	dn	22	ALA	C-N-CA	5.31	127.34	120.44
1	dq	53	ASN	CA-CB-CG	-5.31	107.29	112.60
1	du	111	LEU	N-CA-C	5.31	117.75	111.33
1	dG	195	ASN	OD1-CG-ND2	-5.31	117.29	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1m	164	TYR	N-CA-C	5.31	117.07	111.28
1	dM	195	ASN	OD1-CG-ND2	5.31	127.91	122.60
1	dN	12	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	dN	31	ALA	N-CA-C	5.31	122.10	110.80
1	dO	84	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	dQ	141	ILE	CA-C-N	5.31	127.72	120.77
1	dQ	141	ILE	C-N-CA	5.31	127.72	120.77
1	dR	139	ASN	CA-CB-CG	-5.31	107.29	112.60
1	dU	153	ILE	CB-CA-C	5.31	119.33	111.26
1	dZ	123	PRO	CB-CA-C	5.31	118.30	111.56
1	e2	223	GLY	N-CA-C	5.31	123.17	112.34
1	e3	13	GLN	CG-CD-NE2	5.31	124.36	116.40
1	eb	154	ARG	O-C-N	-5.31	117.03	123.29
1	el	183	ASN	CA-C-O	5.31	126.05	120.42
1	ew	51	ASP	O-C-N	-5.31	116.49	122.12
1	ez	73	ILE	CB-CA-C	-5.31	104.97	112.14
1	ff	12	HIS	ND1-CE1-NE2	5.31	113.71	108.40
1	fg	133	TRP	CA-C-N	5.31	127.96	120.42
1	fg	133	TRP	C-N-CA	5.31	127.96	120.42
1	fJ	163	ASP	O-C-N	-5.31	116.50	122.12
1	fO	23	TRP	CD2-CE2-CZ2	-5.31	117.09	122.40
1	fX	116	GLY	N-CA-C	5.31	119.56	112.77
1	e	118	MET	CB-CG-SD	5.31	128.62	112.70
1	e	128	GLU	CA-C-N	5.31	127.33	120.70
1	e	128	GLU	C-N-CA	5.31	127.33	120.70
1	f	133	TRP	CD1-CG-CD2	5.31	114.79	106.30
1	p	226	HIS	CG-CD2-NE2	5.31	112.51	107.20
1	q	132	ARG	O-C-N	-5.31	116.57	122.09
1	r	57	ASN	O-C-N	-5.31	116.36	122.09
1	3	19	THR	CA-C-N	5.31	127.39	120.28
1	3	19	THR	C-N-CA	5.31	127.39	120.28
1	J	78	ALA	CA-C-N	5.31	127.65	120.38
1	J	78	ALA	C-N-CA	5.31	127.65	120.38
1	N	162	ARG	N-CA-C	5.31	117.48	111.11
1	O	87	HIS	O-C-N	-5.31	116.96	122.96
1	R	158	LYS	CA-C-O	5.31	125.94	119.78
1	R	164	TYR	N-CA-CB	-5.31	102.10	110.06
1	W	14	ALA	CB-CA-C	-5.31	100.91	109.72
1	gG	107	THR	N-CA-CB	5.31	118.11	110.20
1	gT	2	ILE	CB-CA-C	-5.31	103.62	110.84
1	gV	159	GLU	N-CA-C	5.31	116.61	109.24
1	h7	181	VAL	N-CA-C	-5.31	105.67	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hk	135	ILE	CB-CA-C	5.31	118.76	111.97
1	hP	6	LEU	CA-C-O	5.31	125.63	119.32
1	1N	49	PRO	N-CA-C	5.31	121.50	113.81
1	ia	145	TYR	CA-C-O	5.31	125.77	119.56
1	it	110	THR	CA-CB-OG1	5.31	117.56	109.60
1	iw	150	ILE	CA-C-O	5.31	126.25	120.57
1	iy	195	ASN	CB-CA-C	5.31	117.62	109.50
1	iL	165	VAL	O-C-N	-5.31	116.36	121.83
1	j7	108	THR	CA-CB-OG1	5.31	117.56	109.60
1	jb	222	GLY	CA-C-N	5.31	130.20	121.87
1	jb	222	GLY	C-N-CA	5.31	130.20	121.87
1	1V	218	CYS	N-CA-CB	5.31	119.46	110.49
1	jA	226	HIS	CB-CG-CD2	-5.31	124.30	131.20
1	k5	226	HIS	CA-CB-CG	-5.31	108.49	113.80
1	k8	142	VAL	N-CA-C	5.31	116.03	110.62
1	lr	190	LEU	O-C-N	-5.31	116.50	122.12
1	ls	84	HIS	CA-C-N	5.31	125.07	119.76
1	ls	84	HIS	C-N-CA	5.31	125.07	119.76
1	lC	71	GLU	N-CA-CB	5.31	117.66	109.91
1	lK	41	SER	O-C-N	-5.31	115.74	122.27
1	2n	80	TRP	CB-CG-CD2	5.31	134.23	126.80
1	3I	51	ASP	CA-C-N	5.31	127.39	120.28
1	3I	51	ASP	C-N-CA	5.31	127.39	120.28
1	3J	61	GLY	CA-C-N	5.31	129.67	122.19
1	3J	61	GLY	C-N-CA	5.31	129.67	122.19
1	3N	115	ILE	O-C-N	-5.31	116.36	121.83
1	3U	129	ILE	N-CA-C	5.31	115.51	110.42
1	3Z	72	THR	CA-C-N	5.31	127.73	120.46
1	3Z	72	THR	C-N-CA	5.31	127.73	120.46
1	5b	20	LEU	O-C-N	5.31	127.53	122.07
1	5c	162	ARG	NE-CZ-NH1	5.31	126.81	121.50
1	5d	211	LEU	N-CA-C	5.31	117.06	111.28
1	5f	75	GLU	CA-C-N	5.31	127.39	120.28
1	5f	75	GLU	C-N-CA	5.31	127.39	120.28
1	5o	100	ARG	CG-CD-NE	-5.31	100.33	112.00
1	5p	4	GLN	O-C-N	-5.31	117.17	123.22
1	5I	59	VAL	CB-CA-C	-5.31	105.07	112.02
1	5O	146	SER	CA-C-O	-5.31	114.92	120.70
1	5P	41	SER	N-CA-CB	5.31	118.47	110.30
1	63	172	LEU	O-C-N	-5.31	116.01	122.22
1	69	146	SER	CA-C-N	5.31	124.49	118.97
1	69	146	SER	C-N-CA	5.31	124.49	118.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6i	143	ARG	N-CA-C	5.31	117.81	111.71
1	6p	159	GLU	N-CA-C	5.31	117.40	110.08
1	6q	92	GLU	CG-CD-OE1	5.31	130.60	118.40
1	6M	43	LEU	CA-C-O	5.31	126.10	120.10
1	7f	86	VAL	CB-CA-C	5.31	118.95	111.63
1	7g	29	GLU	CA-C-N	5.31	129.78	121.08
1	7g	29	GLU	C-N-CA	5.31	129.78	121.08
1	7y	131	LYS	N-CA-C	5.31	117.06	111.28
1	7H	211	LEU	CB-CA-C	5.31	119.30	110.81
1	7P	146	SER	CA-C-O	-5.31	114.92	120.70
1	8I	70	LYS	N-CA-C	5.31	119.01	112.54
1	8U	169	TYR	N-CA-C	5.31	117.06	111.28
1	8Y	23	TRP	O-C-N	-5.31	116.50	122.12
1	9q	107	THR	N-CA-CB	5.31	118.47	110.30
1	9r	84	HIS	CA-CB-CG	-5.31	108.49	113.80
1	9z	196	PRO	N-CA-C	5.31	121.66	113.75
1	9F	149	SER	CA-C-N	5.31	131.52	121.97
1	9F	149	SER	C-N-CA	5.31	131.52	121.97
1	9G	107	THR	N-CA-C	-5.31	107.18	113.97
1	Y	210	THR	OG1-CB-CG2	-5.31	98.69	109.30
1	9S	21	ASN	CB-CG-ND2	5.31	124.36	116.40
1	9Y	198	CYS	N-CA-CB	5.31	117.70	110.01
1	a0	87	HIS	CB-CG-ND1	5.31	130.66	122.70
1	a9	3	VAL	CA-CB-CG2	5.31	119.42	110.40
1	ae	48	THR	O-C-N	-5.31	114.79	121.21
1	az	185	MET	N-CA-CB	5.31	118.50	110.28
1	aZ	14	ALA	N-CA-CB	-5.31	101.26	109.48
1	bb	63	GLN	CB-CA-C	5.31	119.60	110.79
1	be	40	PHE	CB-CG-CD1	5.31	129.72	120.70
1	bv	44	SER	CA-CB-OG	5.31	121.71	111.10
1	bB	178	SER	CA-C-N	5.31	127.39	120.28
1	bB	178	SER	C-N-CA	5.31	127.39	120.28
1	19	227	LYS	N-CA-C	5.31	117.39	109.59
1	bR	56	LEU	N-CA-C	5.31	117.98	111.82
1	bU	213	GLU	CB-CA-C	5.31	119.60	110.79
1	bW	27	VAL	O-C-N	-5.31	116.72	121.87
1	cb	129	ILE	O-C-N	-5.31	116.72	121.87
1	di	22	ALA	CA-C-N	5.31	127.34	120.44
1	di	22	ALA	C-N-CA	5.31	127.34	120.44
1	dj	198	CYS	CA-C-N	5.31	127.34	120.44
1	dj	198	CYS	C-N-CA	5.31	127.34	120.44
1	dk	32	PHE	CA-C-N	5.31	129.75	122.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dk	32	PHE	C-N-CA	5.31	129.75	122.06
1	dn	185	MET	N-CA-CB	5.31	117.70	110.01
1	dO	6	LEU	N-CA-C	5.31	115.85	108.00
1	dS	164	TYR	CB-CG-CD2	5.31	128.76	120.80
1	dX	215	MET	CA-C-N	5.31	127.82	120.29
1	dX	215	MET	C-N-CA	5.31	127.82	120.29
1	er	86	VAL	CA-C-N	5.31	129.83	122.77
1	er	86	VAL	C-N-CA	5.31	129.83	122.77
1	eI	105	ALA	N-CA-C	5.31	118.85	112.38
1	fb	125	PRO	N-CA-CB	-5.31	97.68	103.25
1	ff	86	VAL	CA-C-O	5.31	124.29	119.20
1	fk	228	ALA	CA-C-N	-5.31	113.83	121.42
1	fk	228	ALA	C-N-CA	-5.31	113.83	121.42
1	fs	217	ALA	CA-C-O	-5.31	115.68	121.89
1	fu	183	ASN	O-C-N	-5.31	116.01	122.22
1	1y	21	ASN	O-C-N	-5.31	116.01	122.22
1	fF	7	GLN	CG-CD-NE2	5.31	124.36	116.40
1	fG	135	ILE	CA-CB-CG2	5.31	119.52	110.50
1	fS	120	HIS	CE1-NE2-CD2	-5.31	103.69	109.00
1	g6	110	THR	CA-C-N	5.31	127.39	120.28
1	g6	110	THR	C-N-CA	5.31	127.39	120.28
1	7	113	GLU	N-CA-CB	5.31	117.76	110.07
1	g8	200	THR	N-CA-C	5.30	117.75	111.33
1	g9	155	GLN	N-CA-C	5.30	117.37	109.25
1	ga	13	GLN	CA-C-O	5.30	126.33	120.71
1	1C	171	THR	CA-C-N	5.30	127.82	120.29
1	1C	171	THR	C-N-CA	5.30	127.82	120.29
1	gj	110	THR	CA-C-O	5.30	127.57	121.47
1	gm	132	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	gn	210	THR	N-CA-CB	5.30	118.12	109.69
1	gt	50	GLN	N-CA-CB	5.30	117.76	110.07
1	1F	190	LEU	O-C-N	-5.30	116.40	122.08
1	gN	198	CYS	CA-C-N	5.30	127.39	120.28
1	gN	198	CYS	C-N-CA	5.30	127.39	120.28
1	gO	5	ASN	N-CA-C	-5.30	106.66	113.02
1	gS	226	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	h0	13	GLN	CB-CG-CD	-5.30	103.58	112.60
1	h1	213	GLU	N-CA-C	5.30	117.06	111.28
1	1H	166	ASP	CA-CB-CG	5.30	117.91	112.60
1	hf	164	TYR	CG-CD2-CE2	-5.30	113.24	121.20
1	1I	195	ASN	CA-C-N	5.30	125.37	119.32
1	1I	195	ASN	C-N-CA	5.30	125.37	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hl	19	THR	CA-C-N	5.30	127.34	120.44
1	hl	19	THR	C-N-CA	5.30	127.34	120.44
1	hm	35	GLU	CB-CG-CD	-5.30	103.58	112.60
1	hC	12	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	hF	183	ASN	CA-C-N	5.30	127.33	120.44
1	hF	183	ASN	C-N-CA	5.30	127.33	120.44
1	hG	48	THR	N-CA-CB	5.30	117.69	110.05
1	i6	184	TRP	N-CA-C	5.30	117.06	111.28
1	i8	162	ARG	N-CA-CB	5.30	117.92	110.12
1	if	229	ARG	CA-C-N	5.30	127.81	120.49
1	if	229	ARG	C-N-CA	5.30	127.81	120.49
1	ih	130	TYR	N-CA-CB	-5.30	102.04	109.94
1	ij	48	THR	N-CA-CB	5.30	117.20	110.04
1	il	158	LYS	CA-C-N	5.30	127.86	120.65
1	il	158	LYS	C-N-CA	5.30	127.86	120.65
1	iv	184	TRP	CH2-CZ2-CE2	5.30	124.39	117.50
1	iy	47	ALA	N-CA-CB	-5.30	101.57	109.69
1	iA	12	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	1R	195	ASN	CA-CB-CG	5.30	117.91	112.60
1	iM	201	ILE	CA-C-O	5.30	126.47	120.95
1	iX	124	ILE	N-CA-C	-5.30	101.83	107.77
1	ja	150	ILE	CA-C-N	5.30	127.39	120.28
1	ja	150	ILE	C-N-CA	5.30	127.39	120.28
1	jc	74	ASN	OD1-CG-ND2	5.30	127.91	122.60
1	jf	218	CYS	N-CA-C	5.30	118.95	111.52
1	jB	96	MET	O-C-N	-5.30	116.12	123.12
1	jN	144	MET	CG-SD-CE	-5.30	89.23	100.90
1	jT	79	GLU	N-CA-C	5.30	117.06	111.28
1	k4	193	ASN	CA-CB-CG	-5.30	107.30	112.60
1	20	8	GLY	O-C-N	-5.30	116.85	122.95
1	kf	5	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	kg	75	GLU	N-CA-CB	-5.30	102.38	110.07
1	21	114	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	km	154	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	ku	163	ASP	CA-C-O	5.30	126.04	120.42
1	kz	211	LEU	N-CA-CB	5.30	117.92	110.12
1	kA	121	ASN	CB-CA-C	5.30	115.73	109.47
1	23	84	HIS	CE1-NE2-CD2	-5.30	103.69	109.00
1	25	126	VAL	O-C-N	-5.30	116.72	121.87
1	l1	153	ILE	N-CA-C	5.30	116.01	107.73
1	l6	30	LYS	N-CA-C	5.30	121.49	114.12
1	lb	82	ARG	N-CA-CB	5.30	119.45	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lf	12	HIS	CE1-NE2-CD2	-5.30	103.69	109.00
1	lk	57	ASN	CA-C-O	5.30	125.89	119.31
1	lw	116	GLY	N-CA-C	5.30	118.65	112.50
1	lK	187	GLU	CB-CG-CD	5.30	121.62	112.60
1	2a	130	TYR	CA-C-N	5.30	127.70	120.54
1	2a	130	TYR	C-N-CA	5.30	127.70	120.54
1	2c	217	ALA	CA-C-N	5.30	132.10	123.93
1	2c	217	ALA	C-N-CA	5.30	132.10	123.93
1	2u	8	GLY	CA-C-O	-5.30	117.07	122.59
1	2u	98	GLU	N-CA-C	5.30	116.38	109.64
1	2w	159	GLU	O-C-N	-5.30	115.49	121.43
1	2F	121	ASN	CA-CB-CG	5.30	117.90	112.60
1	2O	162	ARG	CA-C-O	5.30	126.04	120.42
1	31	195	ASN	CB-CA-C	5.30	120.62	110.17
1	3f	104	ILE	CA-C-O	5.30	126.20	120.47
1	3g	179	GLN	N-CA-C	5.30	117.06	111.28
1	3v	159	GLU	CA-C-N	5.30	125.21	119.85
1	3v	159	GLU	C-N-CA	5.30	125.21	119.85
1	3D	206	GLY	CA-C-N	5.30	126.47	119.84
1	3D	206	GLY	C-N-CA	5.30	126.47	119.84
1	3N	135	ILE	CA-CB-CG2	5.30	119.52	110.50
1	3W	93	PRO	N-CA-C	5.30	123.40	112.47
1	3Z	89	GLY	CA-C-O	-5.30	113.94	121.52
1	4t	29	GLU	O-C-N	-5.30	116.51	122.34
1	4u	67	GLN	CB-CG-CD	5.30	121.62	112.60
1	4Q	133	TRP	O-C-N	-5.30	116.50	122.12
1	4U	12	HIS	CB-CG-CD2	-5.30	124.31	131.20
1	59	104	ILE	N-CA-C	5.30	117.72	111.09
1	5d	163	ASP	N-CA-C	-5.30	107.36	113.88
1	5f	184	TRP	O-C-N	-5.30	116.61	122.07
1	5i	97	ARG	N-CA-CB	5.30	119.45	110.49
1	5j	39	MET	O-C-N	-5.30	116.50	122.12
1	5w	80	TRP	CE3-CZ3-CH2	-5.30	114.20	121.10
1	5w	124	ILE	CB-CA-C	-5.30	104.68	110.78
1	5C	73	ILE	CA-C-N	5.30	131.67	121.54
1	5C	73	ILE	C-N-CA	5.30	131.67	121.54
1	5D	17	PRO	N-CA-CB	5.30	108.82	103.25
1	5E	176	GLN	CA-C-O	5.30	126.09	119.78
1	5K	135	ILE	CA-C-N	5.30	127.34	120.44
1	5K	135	ILE	C-N-CA	5.30	127.34	120.44
1	5L	101	GLY	O-C-N	-5.30	116.88	122.13
1	5Z	139	ASN	O-C-N	-5.30	116.50	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	66	166	ASP	CA-CB-CG	5.30	117.91	112.60
1	6y	95	GLN	CB-CG-CD	-5.30	103.58	112.60
1	6F	178	SER	N-CA-CB	5.30	117.84	110.04
1	6I	124	ILE	CA-C-O	-5.30	112.84	119.95
1	6J	130	TYR	N-CA-C	-5.30	105.58	111.36
1	6P	146	SER	CA-C-O	-5.30	114.76	119.75
1	6Y	214	MET	O-C-N	-5.30	116.50	122.12
1	70	97	ARG	N-CA-C	5.30	117.56	110.35
1	72	37	ILE	CA-C-N	5.30	124.49	118.97
1	72	37	ILE	C-N-CA	5.30	124.49	118.97
1	76	162	ARG	CA-C-N	5.30	127.39	120.28
1	76	162	ARG	C-N-CA	5.30	127.39	120.28
1	79	99	PRO	N-CA-C	5.30	119.91	111.26
1	7e	37	ILE	N-CA-CB	5.30	114.59	110.45
1	7e	79	GLU	CA-C-N	5.30	127.39	120.28
1	7e	79	GLU	C-N-CA	5.30	127.39	120.28
1	7j	101	GLY	CA-C-N	5.30	127.65	120.38
1	7j	101	GLY	C-N-CA	5.30	127.65	120.38
1	7u	207	PRO	N-CA-C	5.30	120.51	113.40
1	7M	196	PRO	N-CA-C	5.30	123.40	112.47
1	7Z	198	CYS	N-CA-CB	-5.30	102.36	110.26
1	81	23	TRP	CA-CB-CG	5.30	123.68	113.60
1	86	11	VAL	O-C-N	-5.30	117.58	123.20
1	89	230	VAL	CA-C-O	5.30	126.91	121.23
1	8D	85	PRO	CA-C-O	-5.30	115.49	121.43
1	8G	159	GLU	CA-C-N	5.30	126.47	119.84
1	8G	159	GLU	C-N-CA	5.30	126.47	119.84
1	8M	63	GLN	N-CA-C	5.30	117.06	111.28
1	8P	61	GLY	CA-C-N	5.30	129.89	122.36
1	8P	61	GLY	C-N-CA	5.30	129.89	122.36
1	8U	155	GLN	N-CA-C	5.30	118.19	109.76
1	9c	89	GLY	O-C-N	-5.30	116.47	121.77
1	9i	146	SER	CB-CA-C	5.30	117.61	109.60
1	9p	123	PRO	CA-C-N	-5.30	117.50	123.02
1	9p	123	PRO	C-N-CA	-5.30	117.50	123.02
1	9w	116	GLY	CA-C-N	5.30	129.70	120.68
1	9w	116	GLY	C-N-CA	5.30	129.70	120.68
1	9B	130	TYR	CA-C-N	5.30	127.33	120.44
1	9B	130	TYR	C-N-CA	5.30	127.33	120.44
1	9C	4	GLN	O-C-N	-5.30	116.50	122.97
1	9D	154	ARG	CG-CD-NE	-5.30	100.33	112.00
1	9N	202	LEU	N-CA-C	5.30	117.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9N	213	GLU	N-CA-CB	-5.30	102.31	110.16
1	9Z	37	ILE	CB-CA-C	-5.30	108.73	114.35
1	a1	19	THR	CA-CB-CG2	5.30	119.52	110.50
1	a2	107	THR	CA-C-N	5.30	130.71	122.49
1	a2	107	THR	C-N-CA	5.30	130.71	122.49
1	ac	23	TRP	O-C-N	-5.30	116.61	122.07
1	ad	100	ARG	CA-C-N	5.30	125.97	120.03
1	ad	100	ARG	C-N-CA	5.30	125.97	120.03
1	ae	34	PRO	CA-C-N	5.30	127.92	120.28
1	ae	34	PRO	C-N-CA	5.30	127.92	120.28
1	ag	93	PRO	N-CA-C	-5.30	107.23	114.98
1	ar	125	PRO	N-CA-CB	-5.30	98.30	102.28
1	aB	35	GLU	N-CA-C	-5.30	106.81	113.28
1	aS	50	GLN	O-C-N	5.30	127.53	122.07
1	aU	164	TYR	O-C-N	5.30	127.61	122.09
1	aY	69	LEU	O-C-N	-5.30	116.51	122.03
1	b3	79	GLU	CA-C-N	5.30	127.34	120.44
1	b3	79	GLU	C-N-CA	5.30	127.34	120.44
1	b4	13	GLN	O-C-N	-5.30	116.49	123.28
1	b6	185	MET	CG-SD-CE	-5.30	89.23	100.90
1	16	169	TYR	CA-C-O	5.30	126.04	120.42
1	ba	166	ASP	CA-CB-CG	5.30	117.90	112.60
1	bb	222	GLY	CA-C-N	5.30	130.20	121.87
1	bb	222	GLY	C-N-CA	5.30	130.20	121.87
1	bd	98	GLU	O-C-N	-5.30	116.80	121.31
1	bm	208	ALA	CA-C-N	5.30	128.38	120.95
1	bm	208	ALA	C-N-CA	5.30	128.38	120.95
1	by	48	THR	CA-C-N	5.30	125.37	119.32
1	by	48	THR	C-N-CA	5.30	125.37	119.32
1	bz	193	ASN	CA-CB-CG	-5.30	107.30	112.60
1	bE	87	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	bW	167	ARG	CG-CD-NE	-5.30	100.33	112.00
1	bY	13	GLN	CA-C-O	5.30	127.06	120.54
1	c5	36	VAL	O-C-N	-5.30	116.71	121.91
1	1c	16	SER	N-CA-CB	5.30	119.57	109.44
1	cl	21	ASN	CA-CB-CG	5.30	117.90	112.60
1	cp	148	THR	CA-C-N	-5.30	114.14	122.73
1	cp	148	THR	C-N-CA	-5.30	114.14	122.73
1	cI	192	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	cP	145	TYR	CA-C-O	5.30	125.77	119.56
1	cQ	43	LEU	CA-C-O	5.30	125.85	119.43
1	cW	46	GLY	N-CA-C	5.30	122.59	115.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d0	175	GLU	CA-C-O	5.30	126.73	120.58
1	1i	128	GLU	N-CA-C	5.30	117.06	111.28
1	dc	36	VAL	O-C-N	-5.30	116.89	122.25
1	de	131	LYS	CA-C-O	5.30	126.17	120.55
1	di	215	MET	CA-C-O	5.30	126.09	120.10
1	dl	223	GLY	O-C-N	-5.30	116.47	121.77
1	do	180	GLU	CA-C-O	5.30	126.05	119.79
1	dp	106	GLY	N-CA-C	-5.30	105.74	114.76
1	ds	186	THR	CA-C-N	5.30	128.37	120.31
1	ds	186	THR	C-N-CA	5.30	128.37	120.31
1	dW	135	ILE	CA-CB-CG2	5.30	119.52	110.50
1	dX	185	MET	N-CA-C	5.30	117.47	111.11
1	1o	216	THR	CA-CB-OG1	5.30	117.56	109.60
1	er	16	SER	CA-C-N	5.30	124.81	119.19
1	er	16	SER	C-N-CA	5.30	124.81	119.19
1	es	55	MET	O-C-N	-5.30	116.57	122.09
1	1r	147	PRO	N-CA-C	5.30	120.81	113.65
1	ew	218	CYS	CB-CA-C	5.30	120.98	110.42
1	1s	188	THR	O-C-N	-5.30	116.51	122.03
1	eO	62	HIS	CA-CB-CG	-5.30	108.50	113.80
1	eV	227	LYS	O-C-N	-5.30	116.80	122.85
1	eX	106	GLY	CA-C-O	5.30	125.03	119.04
1	f0	32	PHE	N-CA-CB	5.30	118.44	110.11
1	fp	95	GLN	O-C-N	-5.30	116.28	122.81
1	fx	50	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	fW	210	THR	OG1-CB-CG2	-5.30	98.69	109.30
1	1A	173	ARG	NE-CZ-NH1	5.30	126.81	121.50
1	g2	74	ASN	CB-CA-C	-5.30	101.98	110.79
1	g6	184	TRP	CA-C-N	5.30	127.33	120.44
1	g6	184	TRP	C-N-CA	5.30	127.33	120.44
1	0	227	LYS	CA-C-N	5.30	128.76	120.75
1	0	227	LYS	C-N-CA	5.30	128.76	120.75
1	d	126	VAL	CA-C-N	5.30	125.72	119.94
1	d	126	VAL	C-N-CA	5.30	125.72	119.94
1	e	176	GLN	CA-C-O	5.30	126.09	119.78
1	l	139	ASN	N-CA-C	5.30	117.47	111.11
1	s	73	ILE	CA-C-N	5.30	127.39	120.28
1	s	73	ILE	C-N-CA	5.30	127.39	120.28
1	v	10	MET	N-CA-C	5.30	117.86	109.96
1	C	178	SER	N-CA-C	5.30	122.10	110.80
1	Q	224	PRO	CA-C-N	5.30	131.81	121.41
1	Q	224	PRO	C-N-CA	5.30	131.81	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	W	16	SER	N-CA-CB	5.30	118.40	110.02
1	7	162	ARG	N-CA-C	5.30	117.06	111.28
1	9	84	HIS	CA-C-O	-5.30	112.89	120.16
1	gw	196	PRO	CA-C-N	5.30	127.39	120.28
1	gw	196	PRO	C-N-CA	5.30	127.39	120.28
1	gy	86	VAL	O-C-N	-5.30	116.83	122.61
1	gG	199	LYS	CA-C-N	5.30	127.39	120.28
1	gG	199	LYS	C-N-CA	5.30	127.39	120.28
1	gM	125	PRO	CA-C-N	5.30	127.72	120.46
1	gM	125	PRO	C-N-CA	5.30	127.72	120.46
1	gS	176	GLN	O-C-N	-5.30	115.98	122.34
1	h2	16	SER	N-CA-CB	-5.30	99.97	109.68
1	hb	28	GLU	N-CA-CB	5.30	117.92	110.12
1	hf	173	ARG	CA-C-O	5.30	125.91	119.49
1	hw	167	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	hx	22	ALA	CA-C-N	5.30	127.92	120.28
1	hx	22	ALA	C-N-CA	5.30	127.92	120.28
1	hR	191	VAL	N-CA-C	5.30	116.08	110.72
1	hZ	216	THR	N-CA-C	-5.30	107.18	113.97
1	1O	84	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	iq	190	LEU	N-CA-C	-5.30	105.40	111.07
1	iu	100	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	jj	50	GLN	N-CA-C	5.30	119.23	112.34
1	jk	25	LYS	CA-C-O	5.30	126.04	120.42
1	js	84	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	jK	170	LYS	CA-C-O	5.30	126.39	120.82
1	jP	10	MET	O-C-N	-5.30	116.99	123.30
1	jV	6	LEU	N-CA-C	5.30	117.92	110.23
1	jX	216	THR	CA-C-O	5.30	125.89	119.31
1	jZ	193	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	k5	207	PRO	O-C-N	5.30	129.43	122.27
1	ke	195	ASN	O-C-N	-5.30	115.59	121.53
1	kj	210	THR	N-CA-C	5.30	116.95	108.41
1	kn	58	THR	N-CA-CB	5.30	118.43	110.53
1	kB	130	TYR	N-CA-C	5.30	118.21	111.69
1	kF	90	PRO	N-CA-CB	-5.30	98.42	103.19
1	kJ	88	ALA	N-CA-C	5.30	118.00	110.10
1	kM	84	HIS	CB-CG-ND1	5.30	130.66	122.70
1	kO	38	PRO	CA-C-N	5.30	127.33	120.44
1	kO	38	PRO	C-N-CA	5.30	127.33	120.44
1	kP	223	GLY	CA-C-N	5.30	126.47	119.84
1	kP	223	GLY	C-N-CA	5.30	126.47	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kS	22	ALA	N-CA-C	5.30	117.06	111.28
1	le	154	ARG	N-CA-CB	5.30	120.38	110.99
1	lQ	84	HIS	CB-CG-ND1	5.30	130.65	122.70
1	2L	32	PHE	CA-CB-CG	-5.30	108.50	113.80
1	2L	96	MET	CA-C-N	5.30	128.76	120.75
1	2L	96	MET	C-N-CA	5.30	128.76	120.75
1	2P	215	MET	CG-SD-CE	-5.30	89.23	100.90
1	2R	136	LEU	CA-C-O	-5.30	114.93	120.55
1	2W	69	LEU	CA-C-N	5.30	127.39	120.28
1	2W	69	LEU	C-N-CA	5.30	127.39	120.28
1	2X	67	GLN	CA-C-O	5.30	126.39	120.82
1	32	75	GLU	O-C-N	-5.30	116.61	122.07
1	3y	167	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	3O	67	GLN	CA-C-N	5.30	127.33	120.44
1	3O	67	GLN	C-N-CA	5.30	127.33	120.44
1	3V	215	MET	CG-SD-CE	-5.30	89.23	100.90
1	43	52	LEU	CB-CA-C	5.30	119.30	110.81
1	4b	135	ILE	CB-CA-C	5.30	119.30	112.14
1	4r	12	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	4x	224	PRO	CA-N-CD	-5.30	104.58	112.00
1	4U	192	GLN	CA-C-O	-5.30	114.93	120.55
1	4Y	84	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	5x	55	MET	CA-C-N	5.30	127.39	120.28
1	5x	55	MET	C-N-CA	5.30	127.39	120.28
1	5A	46	GLY	CA-C-N	5.30	129.27	120.94
1	5A	46	GLY	C-N-CA	5.30	129.27	120.94
1	5B	23	TRP	N-CA-C	5.30	117.47	111.11
1	5X	26	VAL	N-CA-CB	5.30	116.75	110.55
1	6c	162	ARG	CB-CA-C	-5.30	101.84	110.85
1	6z	63	GLN	N-CA-C	5.30	116.74	111.07
1	6Z	169	TYR	CB-CG-CD1	5.30	128.75	120.80
1	78	63	GLN	O-C-N	-5.30	115.14	122.46
1	7H	75	GLU	N-CA-CB	5.30	117.92	110.12
1	7Q	223	GLY	CA-C-N	5.30	126.47	119.84
1	7Q	223	GLY	C-N-CA	5.30	126.47	119.84
1	8j	33	SER	CA-C-O	-5.30	115.18	120.64
1	8J	12	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	8J	53	ASN	CA-CB-CG	-5.30	107.30	112.60
1	8U	165	VAL	CA-CB-CG2	-5.30	101.39	110.40
1	9b	183	ASN	CA-CB-CG	-5.30	107.30	112.60
1	9s	155	GLN	N-CA-CB	5.30	118.17	109.95
1	9y	205	LEU	N-CA-CB	5.30	117.84	109.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ay	33	SER	CA-C-N	5.30	126.47	119.84
1	ay	33	SER	C-N-CA	5.30	126.47	119.84
1	ay	130	TYR	CA-C-N	5.30	127.39	120.28
1	ay	130	TYR	C-N-CA	5.30	127.39	120.28
1	aD	182	LYS	N-CA-C	5.30	117.06	111.28
1	aF	72	THR	OG1-CB-CG2	-5.30	98.69	109.30
1	aS	205	LEU	CB-CA-C	-5.30	99.56	110.38
1	aW	87	HIS	N-CA-C	5.30	117.98	110.50
1	bz	66	MET	CB-CA-C	5.30	119.59	110.79
1	c3	185	MET	O-C-N	-5.30	116.61	122.07
1	c5	43	LEU	O-C-N	-5.30	115.19	122.46
1	c5	130	TYR	CA-C-O	5.30	126.04	120.42
1	c7	181	VAL	CA-C-N	5.30	127.39	120.28
1	c7	181	VAL	C-N-CA	5.30	127.39	120.28
1	cb	58	THR	CA-C-O	5.30	125.40	119.41
1	cb	138	LEU	N-CA-C	5.30	117.06	111.28
1	cu	129	ILE	CB-CA-C	-5.30	105.07	112.02
1	cE	17	PRO	N-CD-CG	5.30	111.15	103.20
1	cE	36	VAL	CB-CA-C	5.30	119.30	112.14
1	cQ	95	GLN	CA-C-O	5.30	127.66	121.46
1	cR	12	HIS	O-C-N	-5.30	117.03	123.29
1	cY	162	ARG	O-C-N	-5.30	116.50	122.12
1	cZ	140	LYS	O-C-N	-5.30	116.50	122.12
1	d3	92	GLU	CA-C-N	5.30	126.47	119.84
1	d3	92	GLU	C-N-CA	5.30	126.47	119.84
1	dv	40	PHE	CA-C-O	-5.30	115.25	120.82
1	e8	38	PRO	N-CA-CB	5.30	109.14	103.52
1	e9	6	LEU	CA-C-O	-5.30	114.41	120.98
1	ec	57	ASN	CB-CG-ND2	-5.30	108.45	116.40
1	1q	92	GLU	CB-CA-C	5.30	118.16	109.46
1	er	214	MET	N-CA-C	5.30	116.74	111.07
1	1s	205	LEU	CA-C-O	-5.30	114.93	120.55
1	eI	71	GLU	CA-C-N	5.30	127.33	120.44
1	eI	71	GLU	C-N-CA	5.30	127.33	120.44
1	eP	127	GLY	N-CA-C	5.30	119.09	112.73
1	eT	110	THR	CA-C-O	-5.30	115.16	121.89
1	f1	166	ASP	N-CA-C	5.30	116.87	111.14
1	fB	160	PRO	CA-C-N	5.30	127.39	120.28
1	fB	160	PRO	C-N-CA	5.30	127.39	120.28
1	fF	33	SER	O-C-N	-5.30	114.86	121.70
1	fK	19	THR	N-CA-CB	5.30	117.70	110.01
1	fW	191	VAL	O-C-N	-5.30	116.64	121.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	0	37	ILE	CA-C-O	-5.30	115.14	118.69
1	l	135	ILE	N-CA-CB	5.30	116.40	110.51
1	D	80	TRP	CA-C-N	5.30	127.92	120.28
1	D	80	TRP	C-N-CA	5.30	127.92	120.28
1	8	129	ILE	CA-C-N	5.30	127.33	120.44
1	8	129	ILE	C-N-CA	5.30	127.33	120.44
1	g8	91	ILE	CB-CA-C	-5.30	103.63	110.84
1	ge	134	ILE	CA-C-N	5.30	127.72	120.46
1	ge	134	ILE	C-N-CA	5.30	127.72	120.46
1	gj	144	MET	N-CA-C	5.30	117.06	111.28
1	gj	229	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	gn	159	GLU	CB-CG-CD	5.30	121.61	112.60
1	gt	36	VAL	CA-C-N	5.30	124.57	120.33
1	gt	36	VAL	C-N-CA	5.30	124.57	120.33
1	gz	48	THR	N-CA-C	-5.30	102.44	110.50
1	gI	13	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	gJ	135	ILE	O-C-N	-5.30	116.71	121.91
1	gU	109	SER	N-CA-C	5.30	118.09	109.24
1	gU	210	THR	CA-C-N	5.30	127.38	120.28
1	gU	210	THR	C-N-CA	5.30	127.38	120.28
1	gW	120	HIS	N-CA-C	5.30	122.09	110.80
1	he	5	ASN	N-CA-C	5.30	118.13	110.28
1	hf	17	PRO	CA-C-N	5.30	127.38	120.28
1	hf	17	PRO	C-N-CA	5.30	127.38	120.28
1	hl	89	GLY	O-C-N	5.30	127.07	121.77
1	hv	52	LEU	O-C-N	-5.30	116.50	122.12
1	hY	73	ILE	CA-CB-CG2	-5.30	101.49	110.50
1	i0	68	MET	O-C-N	5.30	127.53	122.07
1	i4	72	THR	N-CA-C	5.30	117.47	111.11
1	i7	50	GLN	N-CA-CB	5.30	117.70	110.01
1	ii	34	PRO	N-CA-C	5.30	120.50	113.40
1	ip	15	ILE	N-CA-C	5.30	120.37	109.34
1	iu	165	VAL	N-CA-C	5.30	115.93	110.36
1	ix	166	ASP	CA-C-N	5.30	127.38	120.28
1	ix	166	ASP	C-N-CA	5.30	127.38	120.28
1	iK	198	CYS	CB-CA-C	-5.30	101.84	110.85
1	iP	65	ALA	CA-C-N	5.30	128.37	120.31
1	iP	65	ALA	C-N-CA	5.30	128.37	120.31
1	j2	13	GLN	CA-C-N	5.30	128.24	120.71
1	j2	13	GLN	C-N-CA	5.30	128.24	120.71
1	jb	116	GLY	N-CA-C	5.30	119.09	112.73
1	jk	36	VAL	N-CA-C	5.30	116.03	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jv	184	TRP	CA-C-N	5.30	127.39	120.28
1	jv	184	TRP	C-N-CA	5.30	127.39	120.28
1	jR	84	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	jV	110	THR	CA-C-N	5.30	127.70	120.54
1	jV	110	THR	C-N-CA	5.30	127.70	120.54
1	jV	198	CYS	N-CA-C	5.30	117.06	111.28
1	k1	28	GLU	N-CA-C	5.30	116.74	111.07
1	k7	188	THR	CA-C-N	5.30	127.92	120.28
1	k7	188	THR	C-N-CA	5.30	127.92	120.28
1	k8	177	ALA	CA-C-N	5.30	129.26	120.94
1	k8	177	ALA	C-N-CA	5.30	129.26	120.94
1	ki	195	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	ko	99	PRO	N-CA-C	5.30	119.90	111.26
1	kv	110	THR	CA-CB-CG2	5.30	119.51	110.50
1	kw	72	THR	N-CA-C	5.30	117.81	111.71
1	kw	105	ALA	O-C-N	-5.30	115.44	122.33
1	kx	219	GLN	CB-CA-C	-5.30	101.63	109.90
1	kz	19	THR	CA-C-N	5.30	127.65	120.44
1	kz	19	THR	C-N-CA	5.30	127.65	120.44
1	kC	60	GLY	CA-C-O	-5.30	115.85	122.74
1	kK	95	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	24	185	MET	O-C-N	-5.30	116.50	122.12
1	l1	133	TRP	CA-C-N	5.30	127.72	120.46
1	l1	133	TRP	C-N-CA	5.30	127.72	120.46
1	lb	98	GLU	O-C-N	-5.30	115.22	121.32
1	lj	219	GLN	CB-CA-C	5.30	118.37	109.89
1	lo	185	MET	CA-C-O	-5.30	115.25	120.82
1	lp	164	TYR	CA-C-N	5.30	127.35	120.56
1	lp	164	TYR	C-N-CA	5.30	127.35	120.56
1	lv	173	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	lE	219	GLN	CA-C-N	5.30	131.80	121.41
1	lE	219	GLN	C-N-CA	5.30	131.80	121.41
1	2a	52	LEU	CA-C-N	5.30	127.33	120.44
1	2a	52	LEU	C-N-CA	5.30	127.33	120.44
1	2a	110	THR	CB-CA-C	-5.30	99.80	110.30
1	lQ	205	LEU	CA-C-O	5.30	126.57	121.00
1	2e	126	VAL	N-CA-CB	5.30	119.72	110.65
1	2i	5	ASN	N-CA-C	5.30	117.47	111.11
1	2j	219	GLN	N-CA-CB	-5.30	101.53	110.49
1	2o	116	GLY	N-CA-C	5.30	119.06	112.64
1	2E	212	GLU	O-C-N	-5.30	116.58	122.09
1	2F	169	TYR	O-C-N	-5.30	115.75	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	133	TRP	CA-C-N	5.30	127.72	120.46
1	2O	133	TRP	C-N-CA	5.30	127.72	120.46
1	2P	47	ALA	N-CA-C	5.30	117.92	110.23
1	2U	59	VAL	CA-CB-CG1	5.30	119.41	110.40
1	2W	41	SER	CB-CA-C	-5.30	101.99	110.79
1	3h	148	THR	O-C-N	-5.30	117.44	123.48
1	3i	125	PRO	CA-C-O	-5.30	117.39	121.31
1	3j	31	ALA	N-CA-CB	5.30	119.45	110.49
1	3k	89	GLY	CA-C-N	5.30	126.47	119.84
1	3k	89	GLY	C-N-CA	5.30	126.47	119.84
1	3v	72	THR	CA-C-O	5.30	126.36	120.63
1	3P	157	PRO	CA-C-O	-5.30	112.05	119.74
1	3X	107	THR	N-CA-CB	5.30	117.91	110.12
1	44	80	TRP	CA-C-O	5.30	126.17	120.55
1	44	176	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	49	33	SER	CB-CA-C	5.30	116.35	108.87
1	4b	118	MET	N-CA-C	5.30	117.81	111.71
1	4y	196	PRO	CA-C-N	5.30	127.38	120.28
1	4y	196	PRO	C-N-CA	5.30	127.38	120.28
1	4C	199	LYS	CA-C-O	-5.30	114.93	120.55
1	4F	114	GLN	CG-CD-OE1	5.30	131.41	120.80
1	4L	188	THR	CA-C-N	5.30	127.64	120.38
1	4L	188	THR	C-N-CA	5.30	127.64	120.38
1	4O	24	VAL	N-CA-C	5.30	116.03	110.62
1	4U	84	HIS	CA-C-N	5.30	126.47	119.84
1	4U	84	HIS	C-N-CA	5.30	126.47	119.84
1	4V	226	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	51	21	ASN	CB-CG-ND2	-5.30	108.45	116.40
1	52	13	GLN	O-C-N	-5.30	115.60	122.97
1	52	187	GLU	O-C-N	-5.30	116.11	122.15
1	55	117	TRP	N-CA-C	5.30	117.06	111.28
1	58	67	GLN	CA-C-O	5.30	126.07	119.97
1	58	95	GLN	O-C-N	-5.30	117.28	123.27
1	5f	139	ASN	CA-C-O	-5.30	112.86	119.38
1	5g	192	GLN	CB-CA-C	-5.30	99.96	109.24
1	5t	126	VAL	N-CA-CB	5.30	117.10	110.47
1	5x	220	GLY	CA-C-N	-5.30	114.14	121.77
1	5x	220	GLY	C-N-CA	-5.30	114.14	121.77
1	5E	117	TRP	N-CA-CB	5.30	118.39	110.22
1	5P	54	THR	CA-C-N	5.30	127.38	120.28
1	5P	54	THR	C-N-CA	5.30	127.38	120.28
1	5V	32	PHE	CA-C-O	5.30	125.74	119.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	137	GLY	O-C-N	-5.30	117.05	122.19
1	5X	161	PHE	CB-CA-C	5.30	119.59	110.79
1	5Z	212	GLU	CB-CA-C	-5.30	101.67	110.68
1	62	111	LEU	O-C-N	-5.30	116.50	122.12
1	6d	69	LEU	CA-C-N	5.30	127.38	120.28
1	6d	69	LEU	C-N-CA	5.30	127.38	120.28
1	6g	54	THR	N-CA-CB	5.30	117.84	109.94
1	6u	158	LYS	N-CA-C	-5.30	106.04	112.88
1	6w	126	VAL	N-CA-CB	5.30	119.72	110.65
1	6z	12	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	6z	26	VAL	CA-C-O	-5.30	115.23	120.85
1	6A	181	VAL	CA-C-O	5.30	126.79	121.17
1	6B	98	GLU	CB-CA-C	-5.30	103.98	110.08
1	6E	129	ILE	CA-C-O	5.30	126.93	121.05
1	6H	134	ILE	N-CA-C	5.30	116.03	110.62
1	6L	169	TYR	N-CA-C	5.30	117.81	111.71
1	6N	138	LEU	O-C-N	-5.30	116.61	122.07
1	6O	155	GLN	CA-C-N	5.30	130.19	121.87
1	6O	155	GLN	C-N-CA	5.30	130.19	121.87
1	6V	167	ARG	N-CA-C	5.30	116.74	111.07
1	76	112	GLN	CG-CD-NE2	-5.30	108.45	116.40
1	79	133	TRP	CE2-CD2-CE3	5.30	124.10	118.80
1	7c	168	PHE	N-CA-C	5.30	117.47	111.11
1	7d	99	PRO	N-CA-C	5.30	123.39	112.47
1	7e	169	TYR	O-C-N	-5.30	116.50	122.12
1	7u	158	LYS	CA-C-N	5.30	127.77	120.67
1	7u	158	LYS	C-N-CA	5.30	127.77	120.67
1	7G	13	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	7N	18	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	7N	167	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	7Q	181	VAL	O-C-N	-5.30	116.71	121.91
1	7R	82	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	7S	34	PRO	N-CA-CB	5.30	108.49	103.19
1	7W	14	ALA	CB-CA-C	-5.30	100.26	109.64
1	86	123	PRO	CA-C-O	5.30	127.38	121.34
1	8c	104	ILE	N-CA-CB	5.30	116.39	110.51
1	8k	12	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	8w	82	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	8x	13	GLN	CG-CD-OE1	-5.30	110.19	120.80
1	8M	91	ILE	CA-C-N	5.30	128.20	120.51
1	8M	91	ILE	C-N-CA	5.30	128.20	120.51
1	8U	116	GLY	N-CA-C	5.30	120.47	113.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	6	LEU	CA-C-N	5.30	131.72	122.81
1	8W	6	LEU	C-N-CA	5.30	131.72	122.81
1	8W	42	ALA	N-CA-CB	-5.30	102.14	110.30
1	8Z	203	LYS	N-CA-C	5.30	117.14	111.36
1	9g	65	ALA	O-C-N	5.30	127.60	122.09
1	9t	143	ARG	CG-CD-NE	-5.30	100.34	112.00
1	9z	17	PRO	CA-C-N	5.30	127.38	120.28
1	9z	17	PRO	C-N-CA	5.30	127.38	120.28
1	9G	217	ALA	CA-C-N	5.30	131.67	121.54
1	9G	217	ALA	C-N-CA	5.30	131.67	121.54
1	9O	35	GLU	N-CA-C	5.30	117.75	111.33
1	9Y	126	VAL	N-CA-C	5.30	116.03	110.62
1	a5	199	LYS	N-CA-C	5.30	117.47	111.11
1	a6	145	TYR	CA-C-N	5.30	130.52	121.35
1	a6	145	TYR	C-N-CA	5.30	130.52	121.35
1	10	67	GLN	CA-C-N	5.30	127.91	120.28
1	10	67	GLN	C-N-CA	5.30	127.91	120.28
1	aa	217	ALA	N-CA-C	5.30	116.76	110.19
1	ah	56	LEU	CA-C-O	5.30	126.17	120.55
1	am	41	SER	CA-C-N	5.30	127.91	120.28
1	am	41	SER	C-N-CA	5.30	127.91	120.28
1	ap	183	ASN	CA-C-N	5.30	127.38	120.28
1	ap	183	ASN	C-N-CA	5.30	127.38	120.28
1	ap	195	ASN	CA-C-O	-5.30	115.18	120.64
1	ar	75	GLU	N-CA-C	5.30	117.06	111.28
1	ay	103	ASP	CA-CB-CG	5.30	117.90	112.60
1	az	24	VAL	CA-C-O	5.30	126.79	121.17
1	aG	112	GLN	CB-CG-CD	-5.30	103.59	112.60
1	aI	198	CYS	CB-CA-C	5.30	119.59	110.79
1	aM	17	PRO	N-CA-CB	5.30	109.14	103.52
1	aT	166	ASP	CA-C-N	5.30	127.33	120.44
1	aT	166	ASP	C-N-CA	5.30	127.33	120.44
1	15	40	PHE	CA-C-N	5.30	127.64	120.38
1	15	40	PHE	C-N-CA	5.30	127.64	120.38
1	15	189	LEU	N-CA-C	5.30	117.49	111.02
1	b5	146	SER	N-CA-C	5.30	117.29	109.50
1	ba	25	LYS	N-CA-C	5.30	117.14	111.36
1	ba	71	GLU	N-CA-CB	5.30	118.50	110.28
1	ba	134	ILE	O-C-N	-5.30	116.37	121.83
1	bm	18	ARG	CB-CG-CD	5.30	123.49	111.30
1	bm	192	GLN	CA-C-O	5.30	126.09	120.10
1	bo	213	GLU	CA-C-N	5.30	127.39	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	213	GLU	C-N-CA	5.30	127.39	120.28
1	bK	205	LEU	CA-C-N	5.30	130.19	121.87
1	bK	205	LEU	C-N-CA	5.30	130.19	121.87
1	bR	170	LYS	N-CA-C	5.30	117.14	111.36
1	bZ	62	HIS	CA-CB-CG	-5.30	108.50	113.80
1	c2	97	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	cp	21	ASN	O-C-N	-5.30	116.50	122.12
1	cu	12	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	cv	161	PHE	CA-CB-CG	-5.30	108.50	113.80
1	cw	48	THR	N-CA-CB	5.30	117.41	109.88
1	cH	19	THR	CA-CB-CG2	5.30	119.51	110.50
1	cL	67	GLN	N-CA-CB	5.30	117.91	110.12
1	cQ	135	ILE	N-CA-CB	5.30	116.19	110.62
1	cT	132	ARG	N-CA-C	5.30	117.75	111.33
1	cW	201	ILE	N-CA-C	5.30	116.03	110.62
1	d9	3	VAL	CA-C-O	5.30	127.28	121.13
1	df	40	PHE	CA-C-O	5.30	126.17	120.55
1	dh	57	ASN	OD1-CG-ND2	5.30	127.90	122.60
1	dy	162	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	dE	230	VAL	O-C-N	-5.30	117.14	123.03
1	e5	51	ASP	N-CA-C	5.30	117.06	111.28
1	ej	178	SER	O-C-N	-5.30	116.75	122.79
1	eA	87	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	eE	48	THR	CA-C-N	5.30	125.36	119.32
1	eE	48	THR	C-N-CA	5.30	125.36	119.32
1	eF	62	HIS	ND1-CG-CD2	5.30	111.40	106.10
1	eM	3	VAL	CA-C-O	5.30	127.42	121.11
1	eP	150	ILE	CA-C-N	5.30	129.08	120.60
1	eP	150	ILE	C-N-CA	5.30	129.08	120.60
1	eW	203	LYS	N-CA-C	5.30	117.06	111.28
1	f2	34	PRO	N-CD-CG	5.30	111.15	103.20
1	f8	4	GLN	CA-C-N	5.30	129.08	121.50
1	f8	4	GLN	C-N-CA	5.30	129.08	121.50
1	ff	18	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	fw	25	LYS	N-CA-C	5.30	117.75	111.33
1	fF	24	VAL	CA-C-O	-5.30	114.86	120.64
1	fX	159	GLU	CB-CA-C	5.30	116.35	108.87
1	g5	139	ASN	CB-CA-C	5.30	119.59	110.79
1	g7	53	ASN	CA-CB-CG	-5.30	107.30	112.60
1	d	118	MET	CG-SD-CE	-5.30	89.24	100.90
1	e	67	GLN	CG-CD-NE2	5.30	124.35	116.40
1	e	82	ARG	NE-CZ-NH1	5.30	126.80	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e	226	HIS	O-C-N	-5.30	117.01	123.27
1	n	80	TRP	N-CA-C	5.30	117.75	111.33
1	r	175	GLU	CB-CA-C	5.30	120.62	109.65
1	E	98	GLU	CA-C-N	5.30	125.72	119.99
1	E	98	GLU	C-N-CA	5.30	125.72	119.99
1	I	116	GLY	O-C-N	-5.30	116.88	122.13
1	K	113	GLU	CA-C-O	5.30	126.04	120.42
1	L	91	ILE	O-C-N	5.30	127.79	121.80
1	O	126	VAL	N-CA-CB	5.30	118.53	110.58
1	V	1	PRO	CA-C-N	5.30	129.76	123.19
1	V	1	PRO	C-N-CA	5.30	129.76	123.19
1	X	169	TYR	CA-C-N	5.30	127.33	120.44
1	X	169	TYR	C-N-CA	5.30	127.33	120.44
1	X	183	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	6	165	VAL	CA-C-N	5.30	127.70	120.54
1	6	165	VAL	C-N-CA	5.30	127.70	120.54
1	8	143	ARG	N-CA-CB	5.30	117.91	110.12
1	g9	47	ALA	N-CA-CB	-5.30	101.83	109.83
1	gc	39	MET	CG-SD-CE	-5.30	89.24	100.90
1	gg	119	THR	CA-C-N	5.30	129.21	121.31
1	gg	119	THR	C-N-CA	5.30	129.21	121.31
1	gh	51	ASP	CA-CB-CG	-5.30	107.30	112.60
1	go	146	SER	N-CA-CB	5.30	117.17	110.23
1	gp	156	GLY	O-C-N	-5.30	117.65	122.42
1	gs	110	THR	CA-C-N	5.30	127.69	120.54
1	gs	110	THR	C-N-CA	5.30	127.69	120.54
1	gT	163	ASP	CA-C-N	5.30	127.65	120.44
1	gT	163	ASP	C-N-CA	5.30	127.65	120.44
1	h2	213	GLU	N-CA-C	5.30	116.74	111.07
1	h2	216	THR	OG1-CB-CG2	-5.30	98.70	109.30
1	hr	210	THR	N-CA-CB	5.30	117.80	110.17
1	hv	84	HIS	CA-C-N	5.30	125.06	119.76
1	hv	84	HIS	C-N-CA	5.30	125.06	119.76
1	hC	76	GLU	CB-CG-CD	-5.30	103.59	112.60
1	hI	139	ASN	N-CA-C	5.30	117.74	111.33
1	hK	12	HIS	CB-CG-CD2	-5.30	124.31	131.20
1	hK	154	ARG	N-CA-C	5.30	117.13	108.76
1	hN	104	ILE	N-CA-C	5.30	115.51	110.53
1	hP	1	PRO	N-CA-CB	5.30	108.83	103.00
1	hS	114	GLN	CA-C-N	5.30	127.24	120.56
1	hS	114	GLN	C-N-CA	5.30	127.24	120.56
1	hU	117	TRP	N-CA-C	5.30	117.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	7	GLN	CB-CG-CD	-5.30	103.59	112.60
1	hY	40	PHE	CA-CB-CG	5.30	119.10	113.80
1	i2	220	GLY	CA-C-N	5.30	127.34	120.56
1	i2	220	GLY	C-N-CA	5.30	127.34	120.56
1	i3	212	GLU	CA-C-N	5.30	127.64	120.38
1	i3	212	GLU	C-N-CA	5.30	127.64	120.38
1	i9	171	THR	CA-C-N	5.30	127.38	120.28
1	i9	171	THR	C-N-CA	5.30	127.38	120.28
1	ia	150	ILE	N-CA-C	5.30	117.72	111.09
1	ib	21	ASN	N-CA-C	5.30	117.06	111.28
1	ip	129	ILE	CB-CA-C	-5.30	105.19	111.97
1	iq	180	GLU	CA-C-N	5.30	127.95	120.42
1	iq	180	GLU	C-N-CA	5.30	127.95	120.42
1	it	132	ARG	O-C-N	-5.30	116.50	122.12
1	1Q	62	HIS	CB-CG-ND1	-5.30	114.75	122.70
1	iA	192	GLN	O-C-N	-5.30	116.50	122.12
1	iE	192	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	iK	226	HIS	N-CA-C	5.30	122.09	110.80
1	iP	133	TRP	CA-C-N	5.30	127.72	120.46
1	iP	133	TRP	C-N-CA	5.30	127.72	120.46
1	jj	191	VAL	CA-C-O	5.30	126.79	121.17
1	jy	189	LEU	N-CA-C	5.30	119.39	112.13
1	jB	113	GLU	O-C-N	5.30	127.53	122.07
1	jD	217	ALA	N-CA-CB	5.30	117.94	110.36
1	jV	112	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	jW	164	TYR	N-CA-C	5.30	117.97	111.82
1	jX	12	HIS	CA-C-N	5.30	131.04	122.29
1	jX	12	HIS	C-N-CA	5.30	131.04	122.29
1	k1	159	GLU	CA-C-O	-5.30	115.74	120.19
1	kP	48	THR	N-CA-CB	5.30	115.48	109.49
1	kR	59	VAL	O-C-N	-5.30	117.15	123.03
1	25	129	ILE	CA-C-O	5.30	126.46	120.95
1	lz	198	CYS	CB-CA-C	-5.30	102.53	110.90
1	29	168	PHE	N-CA-C	5.30	117.06	111.28
1	lF	124	ILE	CB-CA-C	5.30	117.29	111.04
1	2c	130	TYR	N-CA-CB	-5.30	102.17	110.44
1	2k	92	GLU	N-CA-C	5.30	116.37	109.64
1	2l	60	GLY	CA-C-N	5.30	130.40	120.07
1	2l	60	GLY	C-N-CA	5.30	130.40	120.07
1	2r	24	VAL	N-CA-C	5.30	119.46	112.04
1	2x	145	TYR	N-CA-C	-5.30	106.58	112.57
1	2M	203	LYS	O-C-N	5.30	127.74	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2T	68	MET	CB-CA-C	-5.30	100.83	110.63
1	33	18	ARG	O-C-N	5.30	127.53	122.07
1	3a	117	TRP	CA-C-N	5.30	129.57	120.72
1	3a	117	TRP	C-N-CA	5.30	129.57	120.72
1	3d	150	ILE	N-CA-C	-5.30	107.65	113.43
1	3g	141	ILE	CA-C-O	5.30	126.46	120.95
1	3n	185	MET	N-CA-CB	5.30	117.84	109.94
1	3v	90	PRO	CA-C-N	5.30	128.50	120.13
1	3v	90	PRO	C-N-CA	5.30	128.50	120.13
1	3w	41	SER	CA-C-N	5.30	127.33	120.44
1	3w	41	SER	C-N-CA	5.30	127.33	120.44
1	3T	43	LEU	CB-CA-C	-5.30	100.49	110.67
1	44	139	ASN	CB-CG-ND2	5.30	124.35	116.40
1	49	160	PRO	N-CA-C	5.30	123.39	112.47
1	4c	85	PRO	N-CA-CB	5.30	107.96	103.19
1	4o	166	ASP	N-CA-C	5.30	116.74	111.07
1	4B	12	HIS	CB-CG-ND1	5.30	130.65	122.70
1	4D	110	THR	N-CA-CB	5.30	119.05	110.41
1	4I	226	HIS	O-C-N	-5.30	115.54	122.59
1	4Q	186	THR	N-CA-C	5.30	117.06	111.28
1	4Z	147	PRO	N-CA-CB	-5.30	97.69	103.25
1	58	80	TRP	O-C-N	5.30	127.53	122.07
1	5g	147	PRO	CA-C-N	5.30	128.29	120.82
1	5g	147	PRO	C-N-CA	5.30	128.29	120.82
1	5k	122	PRO	CA-C-N	5.30	125.22	119.76
1	5k	122	PRO	C-N-CA	5.30	125.22	119.76
1	5u	38	PRO	O-C-N	-5.30	115.48	122.64
1	5T	16	SER	CA-C-N	5.30	125.36	119.32
1	5T	16	SER	C-N-CA	5.30	125.36	119.32
1	5T	153	ILE	N-CA-C	5.30	116.52	109.37
1	63	58	THR	OG1-CB-CG2	-5.30	98.70	109.30
1	64	218	CYS	CB-CA-C	5.30	119.26	111.73
1	6a	157	PRO	N-CA-C	-5.30	107.11	114.27
1	6k	136	LEU	CA-C-N	5.30	125.86	119.98
1	6k	136	LEU	C-N-CA	5.30	125.86	119.98
1	6B	46	GLY	CA-C-O	5.30	126.47	119.58
1	6L	195	ASN	CA-CB-CG	5.30	117.90	112.60
1	6N	87	HIS	N-CA-C	5.30	117.92	110.23
1	6Y	223	GLY	CA-C-O	-5.30	113.94	121.52
1	70	44	SER	O-C-N	-5.30	115.55	122.39
1	78	96	MET	CA-C-N	5.30	129.00	121.42
1	78	96	MET	C-N-CA	5.30	129.00	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7c	62	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	7r	11	VAL	CA-CB-CG1	5.30	119.41	110.40
1	7v	18	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	7z	162	ARG	NH1-CZ-NH2	5.30	126.19	119.30
1	7C	193	ASN	O-C-N	-5.30	115.55	122.39
1	7G	35	GLU	N-CA-C	5.30	117.06	111.28
1	7J	131	LYS	N-CA-CB	-5.30	102.11	110.06
1	7O	128	GLU	N-CA-C	5.30	117.06	111.28
1	7Q	218	CYS	CB-CA-C	5.30	120.76	111.06
1	7Z	100	ARG	NH1-CZ-NH2	5.30	126.19	119.30
1	86	173	ARG	O-C-N	-5.30	115.75	122.27
1	8f	111	LEU	N-CA-CB	-5.30	102.33	110.12
1	8j	153	ILE	CA-CB-CG1	5.30	119.41	110.40
1	8q	214	MET	CA-C-N	5.30	128.12	120.38
1	8q	214	MET	C-N-CA	5.30	128.12	120.38
1	8t	64	ALA	N-CA-CB	-5.30	102.32	110.16
1	8u	31	ALA	N-CA-CB	-5.30	101.31	110.32
1	8E	84	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	8F	103	ASP	CA-C-N	5.30	127.94	120.42
1	8F	103	ASP	C-N-CA	5.30	127.94	120.42
1	8J	124	ILE	N-CA-CB	5.30	117.08	111.20
1	8L	219	GLN	O-C-N	-5.30	116.48	123.21
1	8O	84	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	8U	7	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	8X	218	CYS	CA-C-N	5.30	127.64	120.38
1	8X	218	CYS	C-N-CA	5.30	127.64	120.38
1	95	179	GLN	CA-C-N	5.30	127.33	120.44
1	95	179	GLN	C-N-CA	5.30	127.33	120.44
1	9c	30	LYS	CA-CB-CG	5.30	124.70	114.10
1	9g	5	ASN	OD1-CG-ND2	-5.30	117.30	122.60
1	9k	138	LEU	CA-C-N	5.30	127.64	120.38
1	9k	138	LEU	C-N-CA	5.30	127.64	120.38
1	9J	84	HIS	CA-C-O	-5.30	114.03	119.49
1	9J	98	GLU	N-CA-C	5.30	117.23	109.71
1	9K	222	GLY	CA-C-N	5.30	130.19	121.87
1	9K	222	GLY	C-N-CA	5.30	130.19	121.87
1	9M	19	THR	N-CA-C	5.30	117.06	111.28
1	9M	193	ASN	CA-C-N	5.30	128.75	120.75
1	9M	193	ASN	C-N-CA	5.30	128.75	120.75
1	9N	179	GLN	CA-C-N	5.30	127.38	120.28
1	9N	179	GLN	C-N-CA	5.30	127.38	120.28
1	9S	14	ALA	N-CA-C	5.30	117.53	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a6	126	VAL	CA-C-O	5.30	126.46	120.95
1	a6	143	ARG	N-CA-C	5.30	116.86	111.14
1	a6	186	THR	CA-CB-OG1	5.30	117.55	109.60
1	a6	211	LEU	CB-CA-C	-5.30	102.56	110.88
1	a7	63	GLN	N-CA-C	5.30	117.81	111.71
1	aA	44	SER	CA-C-O	5.30	125.55	119.35
1	aG	74	ASN	N-CA-C	5.30	117.47	111.11
1	aR	139	ASN	O-C-N	-5.30	116.02	122.22
1	b9	39	MET	CA-C-N	5.30	129.62	121.19
1	b9	39	MET	C-N-CA	5.30	129.62	121.19
1	bf	211	LEU	N-CA-CB	5.30	117.91	110.12
1	bg	141	ILE	N-CA-C	-5.30	105.22	110.62
1	17	80	TRP	N-CA-C	5.30	116.86	111.14
1	bl	84	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	18	12	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	bu	157	PRO	CB-CA-C	-5.30	102.78	111.31
1	bx	92	GLU	CA-C-O	-5.30	112.90	120.16
1	bC	49	PRO	CB-CA-C	5.30	120.30	111.56
1	bF	107	THR	N-CA-CB	5.30	117.75	110.07
1	1b	197	ASP	CA-C-N	5.30	127.65	120.44
1	1b	197	ASP	C-N-CA	5.30	127.65	120.44
1	bW	29	GLU	CB-CG-CD	5.30	121.61	112.60
1	bZ	105	ALA	N-CA-C	5.30	119.38	113.02
1	cj	193	ASN	CA-C-N	5.30	129.21	121.31
1	cj	193	ASN	C-N-CA	5.30	129.21	121.31
1	ck	152	ASP	CA-CB-CG	5.30	117.90	112.60
1	co	135	ILE	O-C-N	-5.30	116.73	121.87
1	cy	149	SER	N-CA-CB	5.30	119.44	110.49
1	1f	44	SER	CA-C-N	5.30	127.69	120.54
1	1f	44	SER	C-N-CA	5.30	127.69	120.54
1	cE	23	TRP	CA-C-O	5.30	126.39	120.82
1	cF	104	ILE	N-CA-C	-5.30	105.27	113.16
1	1g	227	LYS	N-CA-C	-5.30	105.55	112.23
1	1h	198	CYS	N-CA-CB	5.30	118.00	110.16
1	cU	203	LYS	N-CA-C	5.30	116.74	111.07
1	dc	211	LEU	CA-C-N	5.30	127.38	120.28
1	dc	211	LEU	C-N-CA	5.30	127.38	120.28
1	1k	129	ILE	CA-C-O	5.30	126.79	121.17
1	dB	174	ALA	N-CA-C	5.30	117.80	111.71
1	dE	97	ARG	CB-CA-C	5.30	119.21	109.46
1	dE	124	ILE	N-CA-C	-5.30	101.93	107.60
1	1m	120	HIS	CG-CD2-NE2	5.30	112.50	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dI	31	ALA	CA-C-O	-5.30	115.56	121.81
1	dJ	81	ASP	CA-C-N	5.30	127.38	120.28
1	dJ	81	ASP	C-N-CA	5.30	127.38	120.28
1	dK	224	PRO	O-C-N	-5.30	115.49	122.64
1	dL	216	THR	N-CA-C	-5.30	106.81	113.28
1	dO	84	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	dQ	154	ARG	CG-CD-NE	-5.30	100.34	112.00
1	dW	110	THR	CA-C-N	5.30	127.38	120.28
1	dW	110	THR	C-N-CA	5.30	127.38	120.28
1	dZ	84	HIS	CA-C-O	-5.30	113.82	120.23
1	dZ	126	VAL	CA-C-N	5.30	125.72	119.94
1	dZ	126	VAL	C-N-CA	5.30	125.72	119.94
1	e7	103	ASP	CA-C-N	5.30	127.34	120.56
1	e7	103	ASP	C-N-CA	5.30	127.34	120.56
1	e9	84	HIS	CA-C-N	5.30	125.60	119.93
1	e9	84	HIS	C-N-CA	5.30	125.60	119.93
1	ea	95	GLN	CA-CB-CG	5.30	124.70	114.10
1	ec	135	ILE	CB-CA-C	5.30	118.75	111.97
1	ee	129	ILE	CA-CB-CG2	-5.30	101.49	110.50
1	el	26	VAL	N-CA-C	5.30	115.51	110.42
1	ev	163	ASP	CA-CB-CG	-5.30	107.30	112.60
1	eC	128	GLU	CA-C-N	5.30	127.95	120.42
1	eC	128	GLU	C-N-CA	5.30	127.95	120.42
1	eV	87	HIS	CA-C-N	5.30	128.75	120.75
1	eV	87	HIS	C-N-CA	5.30	128.75	120.75
1	f2	138	LEU	O-C-N	-5.30	116.50	122.12
1	f3	63	GLN	N-CA-C	5.30	117.97	111.82
1	f5	207	PRO	N-CA-CB	5.30	108.23	103.20
1	f6	130	TYR	CA-C-N	5.30	127.38	120.28
1	f6	130	TYR	C-N-CA	5.30	127.38	120.28
1	ff	204	ALA	N-CA-C	5.30	117.06	111.28
1	fj	25	LYS	O-C-N	-5.30	116.50	122.12
1	1w	203	LYS	CA-C-N	5.30	127.38	120.28
1	1w	203	LYS	C-N-CA	5.30	127.38	120.28
1	fA	140	LYS	N-CA-C	5.30	116.74	111.07
1	fD	145	TYR	CA-C-O	-5.30	113.34	119.59
1	fD	167	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	fM	87	HIS	CA-C-O	5.30	126.73	120.58
1	g6	30	LYS	CA-C-N	5.30	131.66	121.54
1	g6	30	LYS	C-N-CA	5.30	131.66	121.54
1	d	38	PRO	N-CA-C	-5.30	106.63	113.57
1	g	47	ALA	N-CA-C	5.30	118.00	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2	142	VAL	CA-C-N	5.30	127.33	120.44
1	2	142	VAL	C-N-CA	5.30	127.33	120.44
1	w	120	HIS	CA-CB-CG	5.30	119.10	113.80
1	A	24	VAL	CA-C-O	5.30	126.24	120.57
1	B	225	GLY	O-C-N	-5.30	115.21	122.68
1	C	193	ASN	CA-CB-CG	5.30	117.90	112.60
1	D	133	TRP	N-CA-C	5.30	117.06	111.28
1	G	188	THR	CA-CB-OG1	5.30	117.55	109.60
1	U	226	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	X	184	TRP	CA-C-O	5.30	126.04	120.42
1	9	73	ILE	CA-CB-CG1	5.30	119.41	110.40
1	gf	199	LYS	CG-CD-CE	5.30	123.48	111.30
1	1C	144	MET	N-CA-C	5.30	117.14	111.36
1	gn	50	GLN	O-C-N	-5.30	116.50	122.12
1	gs	188	THR	N-CA-C	5.30	117.05	111.28
1	gB	168	PHE	CA-C-O	5.30	126.57	120.90
1	gJ	26	VAL	N-CA-C	5.30	115.51	110.42
1	gL	229	ARG	O-C-N	-5.30	116.35	122.87
1	hk	90	PRO	N-CA-C	5.30	123.38	112.47
1	hn	5	ASN	CB-CA-C	5.30	118.52	109.72
1	hx	3	VAL	N-CA-CB	-5.30	103.25	110.56
1	hD	56	LEU	CA-C-O	-5.30	114.93	120.55
1	hJ	87	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	1L	40	PHE	CA-C-O	5.30	126.13	120.20
1	i8	217	ALA	O-C-N	-5.30	116.81	122.85
1	ij	152	ASP	CA-C-O	-5.30	115.58	121.51
1	il	56	LEU	CA-C-O	5.30	126.09	120.10
1	iH	180	GLU	CA-C-N	5.30	127.72	120.46
1	iH	180	GLU	C-N-CA	5.30	127.72	120.46
1	iJ	169	TYR	N-CA-C	5.30	117.05	111.28
1	jc	215	MET	CG-SD-CE	-5.30	89.25	100.90
1	jE	32	PHE	CA-CB-CG	-5.30	108.50	113.80
1	jH	11	VAL	N-CA-CB	5.30	118.53	111.64
1	kC	67	GLN	CG-CD-OE1	-5.30	110.20	120.80
1	la	146	SER	N-CA-CB	5.30	118.16	110.32
1	lb	56	LEU	CA-C-O	5.30	126.04	119.79
1	lb	107	THR	OG1-CB-CG2	5.30	119.90	109.30
1	lf	102	SER	N-CA-C	5.30	117.80	111.71
1	lt	62	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	29	82	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	lF	132	ARG	CD-NE-CZ	5.30	131.82	124.40
1	lR	184	TRP	CA-C-N	5.30	127.69	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	184	TRP	C-N-CA	5.30	127.69	120.54
1	2u	121	ASN	CA-C-O	-5.30	115.46	119.59
1	2J	226	HIS	CA-C-N	5.30	131.66	121.54
1	2J	226	HIS	C-N-CA	5.30	131.66	121.54
1	2K	216	THR	N-CA-C	5.30	116.74	111.07
1	2R	63	GLN	N-CA-CB	-5.30	101.76	110.40
1	2Z	163	ASP	CA-C-N	5.30	127.38	120.28
1	2Z	163	ASP	C-N-CA	5.30	127.38	120.28
1	3c	38	PRO	CA-C-N	5.30	129.64	120.58
1	3c	38	PRO	C-N-CA	5.30	129.64	120.58
1	3e	188	THR	CA-CB-OG1	-5.30	101.65	109.60
1	3g	111	LEU	CA-C-O	-5.30	114.93	120.55
1	3u	81	ASP	N-CA-C	5.30	117.80	111.71
1	3x	210	THR	CA-C-O	-5.30	115.47	121.72
1	3F	120	HIS	ND1-CE1-NE2	5.30	113.70	108.40
1	4l	154	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	4q	92	GLU	CA-C-O	-5.30	114.83	120.23
1	4M	183	ASN	CA-C-O	5.30	126.35	120.63
1	4S	183	ASN	O-C-N	-5.30	116.37	122.09
1	5h	149	SER	CA-C-O	5.30	127.72	121.36
1	5v	78	ALA	CA-C-N	5.30	127.33	120.44
1	5v	78	ALA	C-N-CA	5.30	127.33	120.44
1	5Q	191	VAL	CA-C-N	5.30	127.38	120.28
1	5Q	191	VAL	C-N-CA	5.30	127.38	120.28
1	5S	46	GLY	CA-C-O	5.30	126.03	119.25
1	5V	12	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	5V	209	ALA	O-C-N	-5.30	116.27	123.10
1	68	62	HIS	N-CA-C	5.30	118.70	111.39
1	6s	128	GLU	CB-CA-C	-5.30	102.00	110.79
1	6J	195	ASN	CB-CA-C	5.30	118.15	109.46
1	7t	5	ASN	O-C-N	-5.30	116.38	122.95
1	7w	163	ASP	N-CA-C	5.30	116.74	111.07
1	7D	31	ALA	N-CA-C	5.30	119.07	109.32
1	7X	223	GLY	CA-C-N	5.30	126.46	119.84
1	7X	223	GLY	C-N-CA	5.30	126.46	119.84
1	81	65	ALA	N-CA-C	5.30	117.13	111.36
1	84	29	GLU	CA-C-O	5.30	126.38	120.82
1	8C	63	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	8S	200	THR	CA-C-O	5.30	126.17	120.55
1	9b	226	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	9j	68	MET	CA-C-O	5.30	126.17	120.55
1	9r	25	LYS	N-CA-C	5.30	117.06	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9w	165	VAL	O-C-N	-5.30	116.72	121.91
1	9B	71	GLU	CA-C-N	5.30	127.38	120.28
1	9B	71	GLU	C-N-CA	5.30	127.38	120.28
1	9D	50	GLN	N-CA-C	5.30	117.47	111.11
1	9U	107	THR	CB-CA-C	5.30	121.19	110.38
1	9Y	76	GLU	CA-C-N	5.30	127.38	120.28
1	9Y	76	GLU	C-N-CA	5.30	127.38	120.28
1	ak	171	THR	N-CA-C	5.30	117.05	111.28
1	aK	68	MET	O-C-N	-5.30	116.58	122.09
1	aS	168	PHE	CA-CB-CG	-5.30	108.50	113.80
1	aW	166	ASP	N-CA-CB	-5.30	102.33	110.01
1	18	191	VAL	CB-CA-C	-5.30	105.10	110.93
1	bs	114	GLN	CA-C-O	-5.30	114.80	120.42
1	by	171	THR	CA-CB-OG1	5.30	117.55	109.60
1	bP	102	SER	CA-CB-OG	5.30	121.70	111.10
1	bR	18	ARG	CA-C-N	5.30	127.33	120.44
1	bR	18	ARG	C-N-CA	5.30	127.33	120.44
1	c1	95	GLN	N-CA-CB	-5.30	102.86	110.65
1	c3	197	ASP	CA-C-O	5.30	126.17	120.55
1	c5	2	ILE	N-CA-CB	-5.30	102.17	111.39
1	ci	18	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	ck	143	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	cP	121	ASN	CA-CB-CG	5.30	117.90	112.60
1	cX	171	THR	CA-C-N	5.30	128.12	120.38
1	cX	171	THR	C-N-CA	5.30	128.12	120.38
1	cY	23	TRP	N-CA-CB	-5.30	102.33	110.01
1	d0	117	TRP	CB-CG-CD2	-5.30	119.38	126.80
1	dp	27	VAL	O-C-N	-5.30	116.72	121.91
1	dt	56	LEU	CB-CA-C	-5.30	102.00	110.79
1	dz	48	THR	O-C-N	-5.30	115.60	121.53
1	dQ	64	ALA	N-CA-C	5.30	116.74	111.07
1	dR	3	VAL	CA-C-O	5.30	126.10	120.48
1	dY	202	LEU	CA-C-O	5.30	126.09	120.10
1	eb	173	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	eo	82	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	eB	76	GLU	CA-C-N	5.30	127.38	120.28
1	eB	76	GLU	C-N-CA	5.30	127.38	120.28
1	eD	36	VAL	CA-C-O	5.30	125.99	119.58
1	eO	80	TRP	N-CA-C	5.30	116.74	111.07
1	f1	119	THR	O-C-N	-5.30	115.72	122.34
1	ff	80	TRP	CD2-CE3-CZ3	-5.30	111.71	118.60
1	fQ	108	THR	CA-CB-OG1	5.30	117.55	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	142	VAL	CA-C-N	5.30	128.36	120.31
1	fX	142	VAL	C-N-CA	5.30	128.36	120.31
1	g4	26	VAL	O-C-N	5.30	127.10	121.91
1	g6	58	THR	N-CA-CB	5.30	118.00	110.16
1	N	128	GLU	N-CA-C	5.30	117.14	111.36
1	ga	22	ALA	CA-C-N	5.30	127.38	120.28
1	ga	22	ALA	C-N-CA	5.30	127.38	120.28
1	1C	95	GLN	CA-C-N	5.30	130.54	122.65
1	1C	95	GLN	C-N-CA	5.30	130.54	122.65
1	gj	5	ASN	CB-CA-C	-5.30	102.44	111.02
1	gk	96	MET	CA-C-N	5.30	131.31	121.62
1	gk	96	MET	C-N-CA	5.30	131.31	121.62
1	gy	100	ARG	NE-CZ-NH2	-5.30	114.43	119.20
1	gB	104	ILE	O-C-N	-5.30	116.73	121.87
1	gE	76	GLU	CA-C-N	5.30	127.33	120.44
1	gE	76	GLU	C-N-CA	5.30	127.33	120.44
1	gI	147	PRO	N-CA-C	5.30	123.38	112.47
1	gJ	76	GLU	CA-C-N	5.30	128.15	120.79
1	gJ	76	GLU	C-N-CA	5.30	128.15	120.79
1	gM	59	VAL	CA-CB-CG1	5.30	119.40	110.40
1	gN	74	ASN	CB-CG-OD1	5.30	131.39	120.80
1	gS	123	PRO	CA-C-N	5.30	126.20	122.60
1	gS	123	PRO	C-N-CA	5.30	126.20	122.60
1	1G	126	VAL	N-CA-C	5.30	116.66	110.62
1	h4	134	ILE	N-CA-C	5.30	116.02	110.62
1	h4	175	GLU	N-CA-C	5.30	117.91	110.23
1	hm	42	ALA	CA-C-N	5.30	129.57	120.72
1	hm	42	ALA	C-N-CA	5.30	129.57	120.72
1	hy	141	ILE	O-C-N	-5.30	116.73	121.87
1	hA	175	GLU	CA-C-O	-5.30	115.01	121.05
1	hN	160	PRO	CA-C-O	-5.30	117.39	121.31
1	hT	57	ASN	CA-C-N	5.30	129.56	120.72
1	hT	57	ASN	C-N-CA	5.30	129.56	120.72
1	1M	69	LEU	N-CA-C	5.30	117.05	111.28
1	i0	229	ARG	N-CA-C	5.30	117.99	110.10
1	i8	197	ASP	CA-C-O	5.30	126.03	120.42
1	ih	19	THR	N-CA-CB	5.30	117.69	110.01
1	ih	100	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	ij	16	SER	N-CA-C	5.30	116.37	109.64
1	in	70	LYS	CA-C-N	5.30	127.38	120.28
1	in	70	LYS	C-N-CA	5.30	127.38	120.28
1	ip	218	CYS	O-C-N	5.30	129.85	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iq	227	LYS	N-CA-C	5.30	118.74	110.32
1	iI	113	GLU	CA-C-O	-5.30	115.26	120.82
1	iO	5	ASN	CA-CB-CG	-5.30	107.30	112.60
1	iR	190	LEU	N-CA-C	5.30	117.47	111.11
1	1S	132	ARG	N-CA-C	5.30	117.13	111.36
1	je	69	LEU	CA-C-N	5.30	127.81	120.29
1	je	69	LEU	C-N-CA	5.30	127.81	120.29
1	jg	97	ARG	N-CA-CB	5.30	118.06	110.06
1	jm	46	GLY	O-C-N	-5.30	116.13	122.33
1	jq	18	ARG	CB-CG-CD	5.30	123.48	111.30
1	1W	117	TRP	N-CA-C	5.30	117.05	111.28
1	jw	212	GLU	CA-C-N	5.30	127.69	120.54
1	jw	212	GLU	C-N-CA	5.30	127.69	120.54
1	jC	156	GLY	O-C-N	-5.30	116.47	121.77
1	jD	62	HIS	ND1-CG-CD2	5.30	111.40	106.10
1	jN	204	ALA	N-CA-CB	5.30	118.49	110.28
1	jR	140	LYS	N-CA-CB	5.30	117.91	110.12
1	k0	138	LEU	O-C-N	-5.30	116.11	122.15
1	kb	141	ILE	CA-C-N	5.30	127.23	120.56
1	kb	141	ILE	C-N-CA	5.30	127.23	120.56
1	kc	165	VAL	N-CA-C	5.30	116.02	110.62
1	kj	78	ALA	N-CA-C	5.30	116.74	111.07
1	ku	52	LEU	CA-C-N	5.30	127.38	120.28
1	ku	52	LEU	C-N-CA	5.30	127.38	120.28
1	ku	195	ASN	OD1-CG-ND2	5.30	127.90	122.60
1	kz	94	GLY	O-C-N	5.30	128.66	122.68
1	23	181	VAL	CA-CB-CG2	-5.30	101.40	110.40
1	kE	214	MET	CA-C-O	5.30	126.16	120.55
1	l8	14	ALA	N-CA-C	5.30	118.12	110.28
1	lc	205	LEU	O-C-N	-5.30	116.37	122.09
1	2f	94	GLY	O-C-N	-5.30	115.81	122.70
1	2i	54	THR	CB-CA-C	5.30	119.58	110.79
1	2p	99	PRO	O-C-N	-5.30	116.39	122.85
1	2r	81	ASP	CA-C-N	5.30	127.33	120.44
1	2r	81	ASP	C-N-CA	5.30	127.33	120.44
1	2E	185	MET	O-C-N	-5.30	116.51	122.12
1	2Q	180	GLU	O-C-N	-5.30	116.51	122.12
1	2X	36	VAL	N-CA-CB	5.30	118.53	110.58
1	2X	209	ALA	N-CA-C	5.30	118.03	110.24
1	3g	103	ASP	CB-CA-C	-5.30	101.85	110.85
1	3k	54	THR	OG1-CB-CG2	-5.30	98.71	109.30
1	3m	57	ASN	CA-C-O	5.30	125.47	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	88	ALA	O-C-N	-5.30	117.18	123.22
1	3o	25	LYS	O-C-N	-5.30	115.15	122.46
1	3r	62	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	3E	121	ASN	CB-CG-ND2	5.30	124.35	116.40
1	3I	74	ASN	CA-CB-CG	-5.30	107.30	112.60
1	3N	95	GLN	CB-CA-C	-5.30	101.61	110.56
1	4g	142	VAL	CG1-CB-CG2	5.30	122.45	110.80
1	4n	223	GLY	N-CA-C	5.30	123.14	112.34
1	4I	151	LEU	CB-CA-C	5.30	119.20	110.88
1	4P	162	ARG	CA-C-N	5.30	129.68	120.68
1	4P	162	ARG	C-N-CA	5.30	129.68	120.68
1	4U	80	TRP	CB-CG-CD2	5.30	134.21	126.80
1	50	91	ILE	CA-C-O	5.30	127.36	120.95
1	52	110	THR	CA-CB-OG1	5.30	117.55	109.60
1	5d	87	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	5i	130	TYR	O-C-N	-5.30	116.11	122.15
1	5j	145	TYR	CA-C-O	5.30	126.20	119.95
1	5p	123	PRO	CA-C-N	5.30	129.08	123.25
1	5p	123	PRO	C-N-CA	5.30	129.08	123.25
1	5C	176	GLN	N-CA-CB	-5.30	103.25	110.56
1	5G	120	HIS	CA-CB-CG	-5.30	108.50	113.80
1	5Q	218	CYS	CA-C-N	5.30	128.75	120.75
1	5Q	218	CYS	C-N-CA	5.30	128.75	120.75
1	5W	103	ASP	N-CA-C	5.30	116.74	111.07
1	63	212	GLU	O-C-N	-5.30	116.51	122.12
1	65	81	ASP	CA-CB-CG	5.30	117.90	112.60
1	6e	66	MET	CG-SD-CE	-5.30	89.25	100.90
1	6m	106	GLY	N-CA-C	-5.30	107.94	115.30
1	6v	172	LEU	N-CA-CB	-5.30	102.48	111.17
1	6x	228	ALA	O-C-N	-5.30	116.50	123.02
1	6y	55	MET	O-C-N	-5.30	116.51	122.12
1	6y	196	PRO	N-CA-CB	5.30	108.39	103.46
1	6E	208	ALA	N-CA-C	-5.30	105.13	113.02
1	6G	20	LEU	CA-C-N	5.30	127.38	120.28
1	6G	20	LEU	C-N-CA	5.30	127.38	120.28
1	6Q	18	ARG	NE-CZ-NH2	5.30	123.97	119.20
1	70	81	ASP	N-CA-C	5.30	117.74	111.33
1	7b	182	LYS	CA-CB-CG	-5.30	103.51	114.10
1	7e	153	ILE	CA-C-O	5.30	126.99	120.74
1	7k	160	PRO	N-CA-C	5.30	119.53	111.11
1	7m	63	GLN	O-C-N	5.30	127.73	122.12
1	7t	131	LYS	CA-C-N	5.30	127.38	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7t	131	LYS	C-N-CA	5.30	127.38	120.28
1	7x	107	THR	N-CA-C	-5.30	105.09	112.45
1	7B	148	THR	N-CA-CB	5.30	118.91	110.65
1	7K	165	VAL	CA-C-N	5.30	127.69	120.54
1	7K	165	VAL	C-N-CA	5.30	127.69	120.54
1	8i	37	ILE	CA-C-O	-5.30	115.14	118.69
1	8q	143	ARG	CB-CA-C	-5.30	102.34	110.81
1	8x	213	GLU	CB-CA-C	5.30	119.58	110.79
1	8H	142	VAL	CB-CA-C	-5.30	105.14	112.24
1	8K	173	ARG	CA-C-N	5.30	131.91	122.06
1	8K	173	ARG	C-N-CA	5.30	131.91	122.06
1	8U	37	ILE	O-C-N	-5.30	115.06	121.10
1	8Y	211	LEU	N-CA-C	5.30	117.05	111.28
1	9c	95	GLN	N-CA-C	-5.30	102.06	109.69
1	9h	63	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	9o	23	TRP	N-CA-C	5.30	117.05	111.28
1	9o	105	ALA	O-C-N	-5.30	115.56	122.39
1	9H	100	ARG	CA-C-N	5.30	125.97	119.99
1	9H	100	ARG	C-N-CA	5.30	125.97	119.99
1	9J	154	ARG	CA-C-O	-5.30	115.61	121.33
1	9N	48	THR	CA-C-O	-5.30	115.76	121.27
1	9O	59	VAL	N-CA-CB	5.30	116.88	110.95
1	9U	108	THR	N-CA-CB	5.30	118.69	110.80
1	Z	126	VAL	CA-CB-CG2	5.30	119.40	110.40
1	a4	218	CYS	CA-C-O	5.30	126.93	120.57
1	a8	10	MET	N-CA-C	5.30	117.47	111.11
1	12	42	ALA	N-CA-C	5.30	117.05	111.28
1	aw	119	THR	CB-CA-C	-5.30	101.25	110.09
1	ax	36	VAL	O-C-N	5.30	127.24	121.94
1	aJ	89	GLY	CA-C-N	5.30	126.46	119.84
1	aJ	89	GLY	C-N-CA	5.30	126.46	119.84
1	aQ	93	PRO	N-CA-CB	5.30	108.81	103.25
1	b0	176	GLN	CG-CD-NE2	5.30	124.34	116.40
1	b1	4	GLN	OE1-CD-NE2	-5.30	117.30	122.60
1	bf	131	LYS	O-C-N	-5.30	116.50	122.12
1	bi	74	ASN	N-CA-C	5.30	117.13	111.36
1	bw	168	PHE	N-CA-C	5.30	117.47	111.11
1	cb	58	THR	N-CA-C	-5.30	106.95	113.41
1	cc	120	HIS	CA-C-N	5.30	130.47	122.42
1	cc	120	HIS	C-N-CA	5.30	130.47	122.42
1	1d	174	ALA	CB-CA-C	5.30	119.58	110.79
1	cv	62	HIS	CA-C-N	5.30	127.91	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	62	HIS	C-N-CA	5.30	127.91	120.28
1	cw	105	ALA	CA-C-N	5.30	129.49	120.91
1	cw	105	ALA	C-N-CA	5.30	129.49	120.91
1	cz	226	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	cK	23	TRP	O-C-N	-5.30	116.58	122.09
1	d1	161	PHE	CA-C-O	5.30	126.16	120.55
1	1i	57	ASN	CA-CB-CG	-5.30	107.30	112.60
1	d7	6	LEU	N-CA-C	5.30	117.05	111.28
1	dg	134	ILE	N-CA-C	5.30	115.50	110.42
1	dh	5	ASN	N-CA-C	5.30	118.70	111.39
1	dk	162	ARG	CA-C-O	5.30	126.09	120.10
1	dp	187	GLU	N-CA-C	5.30	117.13	111.36
1	dp	204	ALA	CA-C-N	5.30	127.38	120.28
1	dp	204	ALA	C-N-CA	5.30	127.38	120.28
1	dr	36	VAL	CB-CA-C	-5.30	105.19	111.97
1	dt	83	LEU	CA-C-O	5.30	125.48	119.18
1	dx	73	ILE	N-CA-C	5.30	116.07	110.72
1	dz	84	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	dW	68	MET	CA-C-N	5.30	127.33	120.44
1	dW	68	MET	C-N-CA	5.30	127.33	120.44
1	e5	18	ARG	CA-C-N	5.30	127.38	120.28
1	e5	18	ARG	C-N-CA	5.30	127.38	120.28
1	e8	158	LYS	CA-C-O	5.30	125.43	119.18
1	ec	62	HIS	CB-CG-ND1	-5.30	114.76	122.70
1	eh	197	ASP	CA-CB-CG	-5.30	107.30	112.60
1	ek	12	HIS	N-CA-CB	5.30	118.06	110.06
1	eo	47	ALA	N-CA-C	5.30	117.55	110.35
1	eA	120	HIS	CG-CD2-NE2	5.30	112.50	107.20
1	1s	51	ASP	O-C-N	-5.30	116.11	122.15
1	eI	85	PRO	CA-C-N	5.30	128.42	120.69
1	eI	85	PRO	C-N-CA	5.30	128.42	120.69
1	eI	185	MET	N-CA-C	5.30	116.74	111.07
1	eS	7	GLN	N-CA-C	5.30	122.08	110.80
1	eV	196	PRO	CB-CA-C	5.30	120.30	111.56
1	eX	12	HIS	CE1-NE2-CD2	-5.30	103.70	109.00
1	f0	224	PRO	N-CA-C	-5.30	106.63	113.57
1	f2	21	ASN	CA-CB-CG	5.30	117.90	112.60
1	f6	214	MET	CA-C-N	5.30	127.33	120.44
1	f6	214	MET	C-N-CA	5.30	127.33	120.44
1	f7	185	MET	CA-C-O	-5.30	114.81	120.42
1	fk	99	PRO	CA-C-O	-5.30	115.38	121.36
1	fo	164	TYR	N-CA-C	5.30	117.05	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ft	132	ARG	NH1-CZ-NH2	5.30	126.19	119.30
1	fy	155	GLN	CA-CB-CG	5.30	124.69	114.10
1	fB	97	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	fD	110	THR	CA-CB-OG1	5.30	117.55	109.60
1	fL	198	CYS	CB-CA-C	-5.30	101.01	110.70
1	fN	21	ASN	N-CA-C	5.30	117.74	111.33
1	g2	229	ARG	NH1-CZ-NH2	-5.30	112.41	119.30
1	g4	72	THR	CA-CB-OG1	5.30	117.55	109.60
1	g7	192	GLN	CA-C-N	5.30	130.86	122.60
1	g7	192	GLN	C-N-CA	5.30	130.86	122.60
1	o	26	VAL	N-CA-CB	5.30	117.35	110.57
1	p	209	ALA	N-CA-C	5.30	117.37	110.43
1	w	121	ASN	CA-C-O	-5.30	114.64	119.62
1	z	117	TRP	CA-C-O	5.30	125.48	119.18
1	C	103	ASP	CA-C-N	5.30	127.34	120.56
1	C	103	ASP	C-N-CA	5.30	127.34	120.56
1	I	115	ILE	CA-C-N	5.30	125.97	119.99
1	I	115	ILE	C-N-CA	5.30	125.97	119.99
1	J	115	ILE	O-C-N	-5.30	116.38	121.83
1	T	154	ARG	NE-CZ-NH1	5.30	126.80	121.50
1	gh	19	THR	CA-C-O	5.29	126.16	120.55
1	gw	79	GLU	N-CA-C	5.29	117.13	111.36
1	gF	31	ALA	N-CA-C	5.29	119.06	109.32
1	gF	159	GLU	CA-C-N	5.29	126.46	119.84
1	gF	159	GLU	C-N-CA	5.29	126.46	119.84
1	h8	48	THR	CA-CB-OG1	5.29	117.54	109.60
1	hf	165	VAL	N-CA-CB	5.29	116.75	110.55
1	hD	212	GLU	CA-C-N	5.29	127.69	120.54
1	hD	212	GLU	C-N-CA	5.29	127.69	120.54
1	hT	219	GLN	O-C-N	-5.29	115.83	122.24
1	ig	159	GLU	O-C-N	-5.29	115.85	121.30
1	is	70	LYS	N-CA-C	5.29	117.05	111.28
1	iF	143	ARG	CA-C-N	5.29	127.69	120.54
1	iF	143	ARG	C-N-CA	5.29	127.69	120.54
1	iP	54	THR	N-CA-C	-5.29	105.59	111.36
1	iU	84	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	j7	229	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	jA	157	PRO	CA-C-N	5.29	130.86	122.60
1	jA	157	PRO	C-N-CA	5.29	130.86	122.60
1	jF	139	ASN	N-CA-CB	5.29	117.90	110.12
1	1Y	106	GLY	N-CA-C	5.29	122.66	115.30
1	k1	229	ARG	NH1-CZ-NH2	-5.29	112.42	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ka	120	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	kb	132	ARG	CA-C-O	-5.29	114.94	120.55
1	kr	56	LEU	N-CA-CB	5.29	117.90	110.12
1	ky	66	MET	CA-C-N	5.29	127.38	120.28
1	ky	66	MET	C-N-CA	5.29	127.38	120.28
1	kV	53	ASN	CA-CB-CG	5.29	117.89	112.60
1	lb	198	CYS	CA-C-O	-5.29	114.94	120.55
1	lf	62	HIS	CA-CB-CG	-5.29	108.50	113.80
1	li	202	LEU	CA-C-O	-5.29	114.94	120.55
1	li	223	GLY	CA-C-N	5.29	125.30	119.90
1	li	223	GLY	C-N-CA	5.29	125.30	119.90
1	lt	196	PRO	CA-N-CD	-5.29	104.59	112.00
1	2d	82	ARG	CA-CB-CG	5.29	124.69	114.10
1	2Y	226	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
1	2Y	226	HIS	N-CA-CB	5.29	117.82	110.04
1	3y	70	LYS	N-CA-C	5.29	117.80	111.71
1	3S	199	LYS	CA-C-N	5.29	127.32	120.44
1	3S	199	LYS	C-N-CA	5.29	127.32	120.44
1	3U	116	GLY	N-CA-C	5.29	120.18	113.24
1	4q	82	ARG	O-C-N	-5.29	116.62	122.07
1	50	39	MET	CA-C-N	5.29	127.69	120.54
1	50	39	MET	C-N-CA	5.29	127.69	120.54
1	5G	31	ALA	N-CA-C	5.29	119.06	109.32
1	5O	163	ASP	CA-C-N	5.29	127.32	120.44
1	5O	163	ASP	C-N-CA	5.29	127.32	120.44
1	5P	120	HIS	CB-CA-C	5.29	120.53	109.68
1	5R	73	ILE	O-C-N	-5.29	116.49	121.94
1	5Y	138	LEU	O-C-N	5.29	127.73	122.12
1	66	32	PHE	CA-CB-CG	-5.29	108.50	113.80
1	66	159	GLU	O-C-N	-5.29	116.81	121.31
1	66	197	ASP	CA-C-N	5.29	127.38	120.28
1	66	197	ASP	C-N-CA	5.29	127.38	120.28
1	6i	185	MET	O-C-N	-5.29	116.11	122.15
1	6J	54	THR	O-C-N	-5.29	116.51	122.12
1	7E	185	MET	CG-SD-CE	-5.29	89.25	100.90
1	7N	121	ASN	CA-CB-CG	-5.29	107.31	112.60
1	83	107	THR	CA-CB-OG1	5.29	117.54	109.60
1	8T	226	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
1	8V	182	LYS	CA-C-N	5.29	127.63	120.38
1	8V	182	LYS	C-N-CA	5.29	127.63	120.38
1	8Y	7	GLN	N-CA-C	5.29	122.08	110.80
1	9b	191	VAL	CA-C-O	5.29	126.46	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9d	177	ALA	CA-C-O	5.29	127.38	121.40
1	9e	178	SER	CA-C-N	5.29	127.63	120.38
1	9e	178	SER	C-N-CA	5.29	127.63	120.38
1	9m	230	VAL	O-C-N	-5.29	116.32	122.09
1	9A	46	GLY	CA-C-N	5.29	128.86	121.02
1	9A	46	GLY	C-N-CA	5.29	128.86	121.02
1	a1	135	ILE	CA-C-O	5.29	125.99	119.58
1	10	43	LEU	N-CA-C	-5.29	105.51	111.28
1	al	92	GLU	CA-C-O	-5.29	114.77	119.75
1	as	194	ALA	CA-C-O	-5.29	115.94	121.55
1	aC	92	GLU	CA-C-N	5.29	126.46	119.84
1	aC	92	GLU	C-N-CA	5.29	126.46	119.84
1	aY	2	ILE	CA-CB-CG1	5.29	119.40	110.40
1	aY	67	GLN	N-CA-C	5.29	116.73	111.07
1	b7	12	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
1	bf	78	ALA	CA-C-O	5.29	126.38	120.82
1	bM	117	TRP	O-C-N	-5.29	116.62	122.07
1	bO	117	TRP	CD2-CE2-CZ2	5.29	127.69	122.40
1	bZ	80	TRP	N-CA-C	5.29	117.13	111.36
1	co	59	VAL	N-CA-C	5.29	116.02	110.62
1	cp	216	THR	N-CA-CB	5.29	118.09	110.20
1	cB	119	THR	CA-C-O	5.29	125.75	119.56
1	cF	142	VAL	CB-CA-C	5.29	118.75	111.97
1	cN	126	VAL	N-CA-C	5.29	117.67	111.05
1	d1	204	ALA	CA-C-O	5.29	126.06	119.97
1	di	229	ARG	CA-C-N	5.29	127.60	120.50
1	di	229	ARG	C-N-CA	5.29	127.60	120.50
1	do	206	GLY	N-CA-C	5.29	123.14	112.34
1	dH	187	GLU	N-CA-CB	5.29	117.85	110.07
1	ed	90	PRO	N-CD-CG	5.29	111.14	103.20
1	eq	182	LYS	N-CA-C	5.29	117.05	111.28
1	eD	210	THR	CA-C-N	5.29	128.36	120.31
1	eD	210	THR	C-N-CA	5.29	128.36	120.31
1	eO	109	SER	CA-C-O	-5.29	114.83	120.92
1	eS	87	HIS	CA-CB-CG	5.29	119.09	113.80
1	p	3	VAL	CB-CA-C	-5.29	103.73	110.98
1	H	84	HIS	CB-CG-CD2	-5.29	124.32	131.20
1	4	146	SER	CB-CA-C	-5.29	100.75	109.27
1	1C	190	LEU	CA-C-N	5.29	127.94	120.42
1	1C	190	LEU	C-N-CA	5.29	127.94	120.42
1	gB	124	ILE	O-C-N	-5.29	117.33	121.46
1	gK	87	HIS	CA-C-N	5.29	132.78	121.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gK	87	HIS	C-N-CA	5.29	132.78	121.45
1	gK	180	GLU	N-CA-C	5.29	117.80	111.71
1	gM	75	GLU	CA-C-N	5.29	127.37	120.28
1	gM	75	GLU	C-N-CA	5.29	127.37	120.28
1	gP	136	LEU	O-C-N	-5.29	116.51	122.12
1	1G	70	LYS	N-CA-C	5.29	117.05	111.28
1	h0	63	GLN	N-CA-C	5.29	117.05	111.28
1	h9	153	ILE	CB-CA-C	-5.29	103.83	111.19
1	ha	109	SER	N-CA-C	5.29	117.02	108.34
1	hk	168	PHE	N-CA-CB	-5.29	102.33	110.16
1	hl	27	VAL	CA-C-O	5.29	126.78	121.17
1	hm	112	GLN	N-CA-CB	5.29	117.69	110.01
1	hn	111	LEU	CA-C-O	-5.29	113.88	119.97
1	hn	210	THR	CA-CB-OG1	5.29	117.54	109.60
1	ho	91	ILE	CA-C-O	5.29	126.23	120.57
1	hv	50	GLN	CB-CG-CD	5.29	121.60	112.60
1	hx	135	ILE	N-CA-C	5.29	116.02	110.62
1	hz	229	ARG	N-CA-C	5.29	118.02	110.24
1	hA	36	VAL	N-CA-C	5.29	116.02	110.62
1	hC	75	GLU	O-C-N	-5.29	116.12	122.15
1	hG	47	ALA	O-C-N	5.29	129.26	123.01
1	i9	16	SER	O-C-N	-5.29	116.94	121.23
1	i9	199	LYS	O-C-N	-5.29	116.51	122.12
1	ie	117	TRP	CA-C-N	5.29	127.32	120.44
1	ie	117	TRP	C-N-CA	5.29	127.32	120.44
1	if	155	GLN	CG-CD-NE2	5.29	124.34	116.40
1	in	176	GLN	CA-C-O	-5.29	115.42	120.92
1	is	123	PRO	N-CA-C	5.29	119.80	111.38
1	iD	188	THR	CA-C-N	5.29	127.37	120.28
1	iD	188	THR	C-N-CA	5.29	127.37	120.28
1	iK	154	ARG	CB-CG-CD	5.29	123.48	111.30
1	j7	156	GLY	N-CA-C	5.29	118.35	112.00
1	jb	15	ILE	O-C-N	-5.29	117.02	122.63
1	jd	114	GLN	CA-CB-CG	-5.29	103.51	114.10
1	jd	150	ILE	O-C-N	-5.29	116.52	121.87
1	jm	86	VAL	CA-CB-CG2	-5.29	101.40	110.40
1	js	84	HIS	O-C-N	-5.29	114.08	121.12
1	jO	70	LYS	CA-C-N	5.29	127.69	120.54
1	jO	70	LYS	C-N-CA	5.29	127.69	120.54
1	jR	75	GLU	CA-C-N	5.29	127.37	120.28
1	jR	75	GLU	C-N-CA	5.29	127.37	120.28
1	jZ	166	ASP	CB-CA-C	-5.29	102.57	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ki	62	HIS	N-CA-CB	5.29	120.77	112.46
1	kk	8	GLY	CA-C-O	5.29	124.89	119.02
1	kF	124	ILE	N-CA-C	-5.29	102.91	108.15
1	kK	223	GLY	CA-C-N	5.29	125.29	119.89
1	kK	223	GLY	C-N-CA	5.29	125.29	119.89
1	24	230	VAL	CA-CB-CG1	5.29	119.40	110.40
1	kT	113	GLU	N-CA-C	-5.29	105.59	111.36
1	kY	59	VAL	CA-C-N	5.29	127.23	122.20
1	kY	59	VAL	C-N-CA	5.29	127.23	122.20
1	ll	24	VAL	O-C-N	-5.29	116.73	121.87
1	lv	66	MET	CG-SD-CE	-5.29	89.26	100.90
1	lv	181	VAL	CA-C-N	5.29	127.37	120.28
1	lv	181	VAL	C-N-CA	5.29	127.37	120.28
1	2a	113	GLU	CA-C-O	5.29	126.38	120.82
1	lP	65	ALA	CA-C-N	5.29	127.37	120.28
1	lP	65	ALA	C-N-CA	5.29	127.37	120.28
1	2g	83	LEU	N-CA-C	5.29	116.73	111.07
1	2g	121	ASN	CA-C-O	5.29	126.21	119.54
1	2n	11	VAL	CA-CB-CG2	5.29	119.40	110.40
1	2t	5	ASN	CA-C-N	5.29	131.65	121.54
1	2t	5	ASN	C-N-CA	5.29	131.65	121.54
1	2E	144	MET	CA-C-N	5.29	130.40	121.14
1	2E	144	MET	C-N-CA	5.29	130.40	121.14
1	2W	22	ALA	CA-C-O	5.29	126.16	120.55
1	2Y	73	ILE	CA-CB-CG2	5.29	119.50	110.50
1	32	193	ASN	CA-CB-CG	5.29	117.89	112.60
1	36	48	THR	CA-C-N	5.29	126.46	119.84
1	36	48	THR	C-N-CA	5.29	126.46	119.84
1	37	155	GLN	CB-CA-C	5.29	118.70	109.65
1	3h	84	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	3h	90	PRO	CA-C-N	5.29	128.42	120.69
1	3h	90	PRO	C-N-CA	5.29	128.42	120.69
1	3h	91	ILE	N-CA-C	5.29	116.23	109.30
1	3s	173	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	3B	124	ILE	CA-C-N	-5.29	116.30	121.65
1	3B	124	ILE	C-N-CA	-5.29	116.30	121.65
1	3C	146	SER	CA-C-O	-5.29	112.91	120.16
1	3O	87	HIS	CB-CG-CD2	-5.29	124.32	131.20
1	3Q	91	ILE	CA-CB-CG1	5.29	119.40	110.40
1	3Z	11	VAL	N-CA-CB	-5.29	104.79	111.46
1	42	124	ILE	O-C-N	-5.29	115.76	121.11
1	4a	227	LYS	CA-C-O	5.29	125.84	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4c	165	VAL	CA-C-O	5.29	126.78	121.17
1	4o	74	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	4J	9	GLN	CG-CD-NE2	-5.29	108.46	116.40
1	51	179	GLN	N-CA-CB	5.29	118.00	110.06
1	53	14	ALA	CA-C-N	5.29	127.67	120.63
1	53	14	ALA	C-N-CA	5.29	127.67	120.63
1	54	78	ALA	CA-C-N	5.29	127.64	120.44
1	54	78	ALA	C-N-CA	5.29	127.64	120.44
1	5c	103	ASP	CA-C-N	5.29	127.71	120.46
1	5c	103	ASP	C-N-CA	5.29	127.71	120.46
1	5e	6	LEU	CA-C-O	5.29	125.90	119.49
1	5r	15	ILE	N-CA-C	5.29	116.52	109.37
1	5x	3	VAL	N-CA-C	-5.29	100.84	108.89
1	5B	1	PRO	CB-CA-C	5.29	120.16	110.10
1	5L	229	ARG	N-CA-C	-5.29	106.71	114.39
1	5V	4	GLN	CA-C-N	5.29	128.39	120.87
1	5V	4	GLN	C-N-CA	5.29	128.39	120.87
1	61	170	LYS	CA-CB-CG	5.29	124.69	114.10
1	6r	30	LYS	CB-CA-C	5.29	119.27	111.17
1	6M	124	ILE	O-C-N	-5.29	115.06	121.10
1	6R	139	ASN	CA-CB-CG	-5.29	107.31	112.60
1	71	12	HIS	O-C-N	-5.29	116.81	123.27
1	74	211	LEU	O-C-N	-5.29	115.34	122.43
1	7b	46	GLY	CA-C-N	5.29	128.23	120.71
1	7b	46	GLY	C-N-CA	5.29	128.23	120.71
1	7c	48	THR	CA-C-O	-5.29	115.19	120.64
1	7p	108	THR	O-C-N	-5.29	115.34	122.22
1	7r	156	GLY	O-C-N	-5.29	116.48	121.77
1	7P	212	GLU	CA-C-O	5.29	126.16	120.55
1	7Z	68	MET	CB-CA-C	-5.29	102.00	110.79
1	7Z	144	MET	N-CA-C	5.29	117.05	111.28
1	80	181	VAL	CA-C-N	5.29	127.81	120.29
1	80	181	VAL	C-N-CA	5.29	127.81	120.29
1	88	82	ARG	N-CA-C	5.29	117.05	111.28
1	8g	107	THR	OG1-CB-CG2	-5.29	98.71	109.30
1	8i	164	TYR	CA-C-N	5.29	127.23	120.56
1	8i	164	TYR	C-N-CA	5.29	127.23	120.56
1	8n	116	GLY	CA-C-N	5.29	127.37	120.28
1	8n	116	GLY	C-N-CA	5.29	127.37	120.28
1	8r	221	VAL	CB-CA-C	5.29	119.95	111.32
1	8K	154	ARG	NE-CZ-NH1	-5.29	116.21	121.50
1	8L	24	VAL	N-CA-C	5.29	115.50	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8L	218	CYS	O-C-N	-5.29	116.61	122.91
1	8V	117	TRP	CA-C-O	-5.29	114.94	120.55
1	91	138	LEU	N-CA-C	5.29	117.74	111.33
1	92	66	MET	CG-SD-CE	-5.29	89.25	100.90
1	95	62	HIS	O-C-N	-5.29	115.99	122.55
1	9f	135	ILE	N-CA-CB	5.29	117.74	110.54
1	9N	173	ARG	N-CA-C	5.29	119.72	113.16
1	9T	117	TRP	N-CA-C	5.29	116.73	111.07
1	9Y	211	LEU	CB-CA-C	5.29	119.58	110.79
1	9Z	32	PHE	N-CA-C	-5.29	106.13	112.59
1	ab	14	ALA	CA-C-O	5.29	127.01	121.19
1	af	162	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	aj	208	ALA	O-C-N	-5.29	115.34	122.43
1	al	215	MET	O-C-N	-5.29	115.07	122.37
1	aq	117	TRP	O-C-N	-5.29	116.62	122.07
1	aH	20	LEU	N-CA-C	5.29	116.73	111.07
1	aH	195	ASN	CA-C-N	5.29	126.46	119.84
1	aH	195	ASN	C-N-CA	5.29	126.46	119.84
1	aS	41	SER	CA-C-N	5.29	127.69	120.54
1	aS	41	SER	C-N-CA	5.29	127.69	120.54
1	aS	219	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	aU	152	ASP	CA-C-N	5.29	127.67	120.63
1	aU	152	ASP	C-N-CA	5.29	127.67	120.63
1	aZ	117	TRP	CH2-CZ2-CE2	-5.29	110.62	117.50
1	b3	154	ARG	CA-C-N	5.29	129.20	121.31
1	b3	154	ARG	C-N-CA	5.29	129.20	121.31
1	b4	134	ILE	O-C-N	-5.29	116.72	121.91
1	16	133	TRP	CD2-CE2-CZ2	-5.29	117.11	122.40
1	ba	74	ASN	N-CA-C	5.29	117.96	111.82
1	bh	124	ILE	CA-C-O	-5.29	115.34	119.20
1	bn	23	TRP	CA-C-O	5.29	126.16	120.55
1	br	82	ARG	CA-C-N	5.29	127.69	120.54
1	br	82	ARG	C-N-CA	5.29	127.69	120.54
1	bt	90	PRO	CA-C-N	5.29	127.94	120.42
1	bt	90	PRO	C-N-CA	5.29	127.94	120.42
1	bw	153	ILE	CB-CG1-CD1	5.29	124.92	113.80
1	bB	62	HIS	N-CA-C	5.29	118.69	111.39
1	19	16	SER	O-C-N	-5.29	114.44	121.64
1	bM	35	GLU	N-CA-C	5.29	118.84	112.38
1	bU	68	MET	N-CA-C	5.29	117.05	111.28
1	bZ	190	LEU	O-C-N	-5.29	116.51	122.12
1	bZ	214	MET	CA-C-N	5.29	127.64	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	214	MET	C-N-CA	5.29	127.64	120.44
1	cc	197	ASP	CA-CB-CG	-5.29	107.31	112.60
1	cd	18	ARG	O-C-N	-5.29	116.03	122.22
1	cd	165	VAL	CA-C-N	5.29	127.38	120.28
1	cd	165	VAL	C-N-CA	5.29	127.38	120.28
1	1e	181	VAL	CA-CB-CG1	5.29	119.40	110.40
1	cy	159	GLU	N-CA-CB	5.29	117.44	110.29
1	cE	48	THR	N-CA-C	-5.29	102.45	110.39
1	1g	159	GLU	CA-C-O	-5.29	115.38	119.46
1	cW	25	LYS	CB-CA-C	-5.29	102.00	110.79
1	d7	189	LEU	O-C-N	5.29	128.18	122.15
1	d9	82	ARG	CA-C-N	5.29	127.32	120.44
1	d9	82	ARG	C-N-CA	5.29	127.32	120.44
1	d9	199	LYS	CA-C-O	5.29	126.35	120.63
1	de	167	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	dl	149	SER	O-C-N	-5.29	116.42	122.93
1	dx	52	LEU	CA-C-O	-5.29	115.26	120.82
1	dB	102	SER	CA-C-N	5.29	128.36	120.31
1	dB	102	SER	C-N-CA	5.29	128.36	120.31
1	dD	205	LEU	CB-CA-C	-5.29	100.44	109.65
1	dE	134	ILE	CA-CB-CG1	-5.29	101.40	110.40
1	1m	84	HIS	CA-C-N	5.29	125.30	119.90
1	1m	84	HIS	C-N-CA	5.29	125.30	119.90
1	e4	184	TRP	CB-CG-CD1	-5.29	118.96	126.90
1	e8	81	ASP	CA-CB-CG	5.29	117.89	112.60
1	1p	71	GLU	N-CA-C	5.29	117.73	111.33
1	eo	32	PHE	CA-C-O	5.29	126.95	120.92
1	eI	208	ALA	CB-CA-C	5.29	118.61	110.14
1	eJ	125	PRO	CB-CA-C	5.29	120.29	113.09
1	eK	166	ASP	N-CA-C	5.29	117.46	111.11
1	eU	56	LEU	N-CA-C	5.29	117.05	111.28
1	eY	6	LEU	N-CA-C	5.29	116.54	108.12
1	fc	134	ILE	N-CA-CB	-5.29	104.36	110.55
1	fe	15	ILE	O-C-N	-5.29	116.84	122.61
1	fh	73	ILE	CB-CA-C	-5.29	105.19	111.97
1	fw	79	GLU	N-CA-C	5.29	116.73	111.07
1	1y	15	ILE	CA-C-O	-5.29	115.54	121.36
1	fG	92	GLU	O-C-N	-5.29	116.70	121.31
1	fH	156	GLY	N-CA-C	5.29	123.14	112.34
1	fI	89	GLY	CA-C-N	5.29	126.46	119.84
1	fI	89	GLY	C-N-CA	5.29	126.46	119.84
1	fL	66	MET	O-C-N	-5.29	116.51	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	208	ALA	O-C-N	-5.29	115.59	122.37
1	fT	115	ILE	CA-C-O	5.29	126.45	120.95
1	fU	66	MET	O-C-N	-5.29	116.62	122.07
1	g3	3	VAL	CA-C-N	5.29	128.74	120.75
1	g3	3	VAL	C-N-CA	5.29	128.74	120.75
1	1B	54	THR	CA-C-O	5.29	126.35	120.63
1	b	93	PRO	N-CA-C	5.29	119.89	111.26
1	e	192	GLN	CB-CG-CD	5.29	121.60	112.60
1	1	189	LEU	CA-C-N	5.29	127.69	120.54
1	1	189	LEU	C-N-CA	5.29	127.69	120.54
1	k	14	ALA	N-CA-C	5.29	117.55	110.35
1	G	204	ALA	CA-C-O	5.29	125.48	119.18
1	J	2	ILE	N-CA-CB	5.29	116.49	110.72
1	ga	131	LYS	CA-C-N	5.29	127.68	120.54
1	ga	131	LYS	C-N-CA	5.29	127.68	120.54
1	gc	87	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	gc	210	THR	CA-C-N	5.29	127.32	120.44
1	gc	210	THR	C-N-CA	5.29	127.32	120.44
1	gk	226	HIS	CA-CB-CG	5.29	119.09	113.80
1	gy	9	GLN	CA-C-N	5.29	130.07	122.35
1	gy	9	GLN	C-N-CA	5.29	130.07	122.35
1	gz	192	GLN	CA-C-O	5.29	125.87	119.31
1	h8	215	MET	O-C-N	-5.29	115.21	122.46
1	hc	91	ILE	CA-CB-CG1	5.29	119.40	110.40
1	1I	5	ASN	CB-CG-ND2	5.29	124.34	116.40
1	1I	65	ALA	CA-C-N	5.29	127.37	120.28
1	1I	65	ALA	C-N-CA	5.29	127.37	120.28
1	hj	78	ALA	CA-C-N	5.29	127.32	120.44
1	hj	78	ALA	C-N-CA	5.29	127.32	120.44
1	hn	76	GLU	CA-C-N	5.29	127.37	120.28
1	hn	76	GLU	C-N-CA	5.29	127.37	120.28
1	1J	133	TRP	CB-CG-CD2	-5.29	119.39	126.80
1	hs	208	ALA	CA-C-O	5.29	128.08	120.51
1	hy	11	VAL	CB-CA-C	5.29	118.46	110.63
1	hA	41	SER	CB-CA-C	-5.29	101.85	110.85
1	hK	230	VAL	CA-C-O	5.29	125.95	120.39
1	hM	166	ASP	CA-C-O	-5.29	115.24	120.90
1	hQ	99	PRO	CB-CA-C	5.29	118.28	111.56
1	hS	130	TYR	CA-C-O	5.29	126.16	120.55
1	hU	8	GLY	CA-C-N	5.29	130.85	122.60
1	hU	8	GLY	C-N-CA	5.29	130.85	122.60
1	hX	173	ARG	NE-CZ-NH1	5.29	126.79	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i5	204	ALA	CB-CA-C	-5.29	102.54	110.90
1	i8	172	LEU	O-C-N	-5.29	116.51	122.12
1	1O	152	ASP	CA-C-O	5.29	125.75	119.56
1	1O	167	ARG	CA-C-N	5.29	127.32	120.44
1	1O	167	ARG	C-N-CA	5.29	127.32	120.44
1	ih	12	HIS	CA-C-O	-5.29	115.37	121.19
1	ii	126	VAL	CA-CB-CG2	-5.29	101.40	110.40
1	ik	100	ARG	CG-CD-NE	-5.29	100.36	112.00
1	ip	202	LEU	N-CA-CB	5.29	118.48	110.28
1	iu	184	TRP	CA-C-N	5.29	129.60	121.19
1	iu	184	TRP	C-N-CA	5.29	129.60	121.19
1	iH	138	LEU	CA-C-O	-5.29	114.94	120.55
1	1R	151	LEU	CA-C-N	5.29	128.15	120.79
1	1R	151	LEU	C-N-CA	5.29	128.15	120.79
1	iQ	117	TRP	N-CA-C	5.29	117.05	111.28
1	iT	216	THR	CA-CB-OG1	5.29	117.54	109.60
1	j0	202	LEU	CA-C-O	5.29	126.08	120.10
1	1U	14	ALA	O-C-N	-5.29	116.76	122.79
1	jc	207	PRO	CB-CA-C	-5.29	104.62	111.39
1	jt	128	GLU	CB-CG-CD	5.29	121.59	112.60
1	jK	213	GLU	N-CA-C	5.29	117.13	111.36
1	jS	16	SER	N-CA-C	-5.29	101.89	109.24
1	k2	33	SER	CA-C-O	-5.29	115.23	120.26
1	kf	11	VAL	N-CA-C	-5.29	101.02	109.17
1	kh	164	TYR	N-CA-C	5.29	117.05	111.28
1	kh	212	GLU	O-C-N	-5.29	116.59	122.09
1	kp	91	ILE	N-CA-CB	5.29	120.77	110.45
1	kq	60	GLY	CA-C-N	5.29	128.37	122.55
1	kq	60	GLY	C-N-CA	5.29	128.37	122.55
1	kt	43	LEU	CA-C-O	5.29	126.06	119.97
1	kF	198	CYS	CA-C-O	5.29	126.03	120.42
1	kM	230	VAL	N-CA-C	5.29	116.41	109.58
1	l3	69	LEU	N-CA-C	5.29	116.73	111.07
1	lg	149	SER	CA-C-N	5.29	129.06	121.55
1	lg	149	SER	C-N-CA	5.29	129.06	121.55
1	ll	139	ASN	CA-CB-CG	5.29	117.89	112.60
1	lr	110	THR	CA-CB-OG1	5.29	117.54	109.60
1	lu	9	GLN	CA-C-O	-5.29	115.65	121.58
1	lz	17	PRO	N-CA-CB	5.29	109.13	103.52
1	lO	39	MET	CG-SD-CE	-5.29	89.26	100.90
1	2f	157	PRO	CB-CA-C	5.29	119.03	111.04
1	2j	1	PRO	CA-C-N	5.29	129.65	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	1	PRO	C-N-CA	5.29	129.65	121.71
1	2m	98	GLU	O-C-N	-5.29	115.85	121.30
1	2L	183	ASN	O-C-N	-5.29	116.51	122.12
1	2M	183	ASN	O-C-N	-5.29	116.12	122.15
1	2N	15	ILE	CA-CB-CG1	5.29	119.39	110.40
1	2O	58	THR	N-CA-CB	5.29	118.48	110.28
1	2P	4	GLN	N-CA-C	5.29	118.15	110.42
1	2R	82	ARG	CA-C-N	5.29	127.81	120.29
1	2R	82	ARG	C-N-CA	5.29	127.81	120.29
1	2Z	113	GLU	CA-C-N	5.29	127.32	120.44
1	2Z	113	GLU	C-N-CA	5.29	127.32	120.44
1	30	213	GLU	CB-CA-C	-5.29	101.86	110.85
1	35	137	GLY	CA-C-N	5.29	127.37	120.28
1	35	137	GLY	C-N-CA	5.29	127.37	120.28
1	39	172	LEU	CA-C-O	5.29	125.88	119.11
1	3h	200	THR	CA-CB-OG1	5.29	117.54	109.60
1	3n	45	GLU	CB-CG-CD	-5.29	103.60	112.60
1	3r	227	LYS	CA-C-N	5.29	129.81	120.87
1	3r	227	LYS	C-N-CA	5.29	129.81	120.87
1	3A	22	ALA	CA-C-N	5.29	127.37	120.28
1	3A	22	ALA	C-N-CA	5.29	127.37	120.28
1	3B	31	ALA	CA-C-O	5.29	127.86	119.13
1	3D	183	ASN	O-C-N	-5.29	116.62	122.07
1	3F	113	GLU	CA-C-N	5.29	127.37	120.28
1	3F	113	GLU	C-N-CA	5.29	127.37	120.28
1	3L	101	GLY	CA-C-N	5.29	127.90	120.28
1	3L	101	GLY	C-N-CA	5.29	127.90	120.28
1	3X	120	HIS	N-CA-C	5.29	117.36	110.43
1	3Y	104	ILE	CA-CB-CG1	5.29	119.40	110.40
1	41	188	THR	N-CA-CB	5.29	117.68	110.01
1	49	59	VAL	O-C-N	-5.29	117.27	122.67
1	4b	120	HIS	O-C-N	-5.29	116.14	122.65
1	4f	48	THR	CA-C-O	-5.29	114.95	120.88
1	4n	62	HIS	ND1-CG-CD2	5.29	111.39	106.10
1	4u	203	LYS	CA-C-N	5.29	127.69	120.54
1	4u	203	LYS	C-N-CA	5.29	127.69	120.54
1	4F	142	VAL	O-C-N	-5.29	116.72	121.91
1	4Y	103	ASP	CA-CB-CG	-5.29	107.31	112.60
1	58	63	GLN	N-CA-C	5.29	116.73	111.07
1	58	82	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	5i	30	LYS	CA-C-O	5.29	125.68	119.28
1	5i	74	ASN	OD1-CG-ND2	-5.29	117.31	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5n	176	GLN	O-C-N	-5.29	114.70	122.43
1	5M	203	LYS	O-C-N	-5.29	116.51	122.12
1	5Q	135	ILE	O-C-N	-5.29	116.38	121.83
1	5Z	162	ARG	NE-CZ-NH2	5.29	123.96	119.20
1	60	169	TYR	N-CA-C	5.29	117.05	111.28
1	64	24	VAL	N-CA-CB	-5.29	101.60	110.65
1	66	120	HIS	CB-CG-CD2	-5.29	124.32	131.20
1	69	43	LEU	CA-C-N	5.29	130.85	122.60
1	69	43	LEU	C-N-CA	5.29	130.85	122.60
1	6i	89	GLY	O-C-N	5.29	127.47	122.18
1	6p	141	ILE	CA-C-N	5.29	127.70	120.77
1	6p	141	ILE	C-N-CA	5.29	127.70	120.77
1	6y	54	THR	O-C-N	5.29	127.52	122.07
1	6y	100	ARG	CA-C-O	-5.29	115.42	121.82
1	6E	42	ALA	CB-CA-C	-5.29	102.57	110.88
1	6O	86	VAL	CA-C-N	5.29	130.07	122.35
1	6O	86	VAL	C-N-CA	5.29	130.07	122.35
1	6V	36	VAL	CB-CA-C	-5.29	105.00	112.14
1	6Z	196	PRO	O-C-N	-5.29	116.16	122.24
1	72	148	THR	O-C-N	-5.29	117.35	123.33
1	79	184	TRP	CG-CD1-NE1	5.29	117.08	110.20
1	7a	112	GLN	O-C-N	-5.29	116.03	122.22
1	7i	215	MET	N-CA-C	5.29	117.73	111.33
1	7n	70	LYS	N-CA-C	5.29	117.13	111.36
1	7s	185	MET	N-CA-CB	-5.29	102.34	110.12
1	7w	28	GLU	N-CA-CB	-5.29	102.33	110.16
1	7y	178	SER	CA-C-N	5.29	127.37	120.28
1	7y	178	SER	C-N-CA	5.29	127.37	120.28
1	7B	66	MET	N-CA-C	5.29	117.05	111.28
1	7E	87	HIS	CB-CG-CD2	5.29	138.08	131.20
1	7H	98	GLU	N-CA-C	5.29	116.36	109.64
1	7I	75	GLU	N-CA-C	5.29	117.05	111.28
1	7Q	53	ASN	CA-C-N	5.29	127.32	120.44
1	7Q	53	ASN	C-N-CA	5.29	127.32	120.44
1	7W	120	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	7Y	221	VAL	CB-CA-C	-5.29	104.90	110.62
1	89	5	ASN	O-C-N	-5.29	116.42	122.93
1	8l	171	THR	CA-C-N	-5.29	113.81	122.54
1	8l	171	THR	C-N-CA	-5.29	113.81	122.54
1	8n	154	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	8n	167	ARG	NE-CZ-NH1	-5.29	116.21	121.50
1	8q	176	GLN	OE1-CD-NE2	-5.29	117.31	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	167	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	93	167	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	9e	195	ASN	CA-CB-CG	5.29	117.89	112.60
1	9n	54	THR	O-C-N	-5.29	116.51	122.12
1	9o	9	GLN	N-CA-CB	5.29	119.43	110.49
1	9o	198	CYS	N-CA-C	5.29	117.05	111.28
1	9v	97	ARG	NE-CZ-NH2	5.29	123.96	119.20
1	9G	81	ASP	N-CA-C	5.29	117.80	111.71
1	9Q	124	ILE	N-CA-CB	5.29	118.62	111.21
1	9U	48	THR	CA-C-N	5.29	126.45	119.84
1	9U	48	THR	C-N-CA	5.29	126.45	119.84
1	9Z	92	GLU	O-C-N	-5.29	115.23	121.32
1	9Z	226	HIS	CA-CB-CG	5.29	119.09	113.80
1	a8	148	THR	N-CA-C	-5.29	105.48	112.94
1	10	126	VAL	CA-C-O	5.29	126.77	121.27
1	ag	95	GLN	O-C-N	-5.29	116.62	122.07
1	aj	138	LEU	N-CA-CB	5.29	117.90	110.12
1	11	66	MET	N-CA-C	5.29	117.46	111.11
1	aq	179	GLN	CB-CG-CD	5.29	121.59	112.60
1	as	17	PRO	O-C-N	-5.29	115.50	122.64
1	as	160	PRO	O-C-N	-5.29	115.50	122.64
1	aw	161	PHE	N-CA-C	5.29	116.86	111.14
1	az	179	GLN	CB-CG-CD	5.29	121.60	112.60
1	aC	205	LEU	CA-C-O	-5.29	114.81	120.42
1	aT	91	ILE	CA-CB-CG2	5.29	119.50	110.50
1	aT	170	LYS	CA-C-N	5.29	127.37	120.28
1	aT	170	LYS	C-N-CA	5.29	127.37	120.28
1	aW	219	GLN	N-CA-C	5.29	117.76	110.35
1	b2	40	PHE	O-C-N	5.29	127.59	122.09
1	b6	185	MET	CA-C-N	5.29	127.81	120.29
1	b6	185	MET	C-N-CA	5.29	127.81	120.29
1	b7	114	GLN	CA-C-O	5.29	126.16	120.55
1	b8	163	ASP	CA-CB-CG	-5.29	107.31	112.60
1	b9	108	THR	N-CA-CB	5.29	118.31	110.53
1	bo	139	ASN	CA-CB-CG	-5.29	107.31	112.60
1	bt	217	ALA	CA-C-O	5.29	127.96	121.72
1	bu	141	ILE	O-C-N	-5.29	116.74	121.87
1	bI	191	VAL	CA-CB-CG2	5.29	119.40	110.40
1	bN	25	LYS	CB-CA-C	-5.29	101.85	110.85
1	1b	88	ALA	N-CA-C	5.29	122.07	110.80
1	bY	69	LEU	N-CA-C	5.29	116.73	111.07
1	c0	122	PRO	CA-C-N	5.29	125.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c0	122	PRO	C-N-CA	5.29	125.30	119.90
1	ct	30	LYS	CB-CA-C	-5.29	101.54	110.64
1	cu	153	ILE	CB-CA-C	5.29	119.94	111.32
1	cx	192	GLN	CA-C-O	-5.29	114.94	120.55
1	cD	103	ASP	CB-CA-C	5.29	119.26	110.90
1	cF	141	ILE	CA-C-O	-5.29	115.56	121.17
1	cH	188	THR	N-CA-CB	5.29	119.43	110.49
1	cK	135	ILE	N-CA-CB	5.29	117.74	110.54
1	1h	176	GLN	OE1-CD-NE2	5.29	127.89	122.60
1	cZ	44	SER	N-CA-C	-5.29	106.60	113.16
1	1i	42	ALA	O-C-N	-5.29	116.03	122.22
1	1i	218	CYS	CA-C-O	5.29	126.71	120.89
1	d5	124	ILE	CB-CA-C	-5.29	104.69	110.78
1	d9	118	MET	CB-CA-C	-5.29	101.85	110.85
1	db	128	GLU	CA-C-N	5.29	127.23	120.56
1	db	128	GLU	C-N-CA	5.29	127.23	120.56
1	dk	173	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	dD	73	ILE	N-CA-CB	5.29	117.74	110.54
1	dD	142	VAL	O-C-N	-5.29	115.82	121.80
1	dI	11	VAL	N-CA-C	5.29	115.83	108.84
1	1n	135	ILE	CA-C-N	5.29	127.32	120.44
1	1n	135	ILE	C-N-CA	5.29	127.32	120.44
1	dW	167	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	dY	67	GLN	CA-C-N	5.29	127.37	120.28
1	dY	67	GLN	C-N-CA	5.29	127.37	120.28
1	e0	132	ARG	N-CA-CB	5.29	117.82	109.94
1	e3	87	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	e4	132	ARG	CA-C-O	5.29	126.05	119.97
1	en	90	PRO	N-CA-C	5.29	123.37	112.47
1	eA	78	ALA	CA-C-O	5.29	126.03	119.79
1	eB	74	ASN	N-CA-C	5.29	117.05	111.28
1	eT	3	VAL	O-C-N	-5.29	117.04	123.02
1	f5	180	GLU	N-CA-C	5.29	117.05	111.28
1	f7	32	PHE	CA-CB-CG	-5.29	108.51	113.80
1	f7	183	ASN	N-CA-C	5.29	117.13	111.36
1	1v	87	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	fa	13	GLN	N-CA-C	-5.29	101.37	109.41
1	fh	169	TYR	N-CA-C	5.29	117.13	111.36
1	fn	68	MET	N-CA-C	5.29	117.80	111.71
1	fp	164	TYR	N-CA-C	5.29	117.80	111.71
1	fw	40	PHE	CB-CG-CD1	-5.29	111.70	120.70
1	fA	26	VAL	CA-C-N	5.29	127.94	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fA	26	VAL	C-N-CA	5.29	127.94	120.42
1	fG	211	LEU	O-C-N	-5.29	115.76	122.27
1	fQ	167	ARG	CD-NE-CZ	5.29	131.81	124.40
1	fS	25	LYS	N-CA-C	5.29	117.05	111.28
1	fX	23	TRP	CB-CG-CD2	5.29	134.21	126.80
1	g7	57	ASN	CA-C-N	5.29	127.80	120.29
1	g7	57	ASN	C-N-CA	5.29	127.80	120.29
1	c	121	ASN	CA-C-O	-5.29	114.29	119.69
1	w	209	ALA	CA-C-O	5.29	125.86	120.88
1	y	112	GLN	CA-C-N	5.29	128.15	120.79
1	y	112	GLN	C-N-CA	5.29	128.15	120.79
1	F	143	ARG	CA-C-N	5.29	127.32	120.44
1	F	143	ARG	C-N-CA	5.29	127.32	120.44
1	J	132	ARG	N-CA-C	5.29	117.05	111.28
1	T	143	ARG	O-C-N	5.29	127.52	122.07
1	U	132	ARG	O-C-N	-5.29	115.76	122.27
1	8	186	THR	O-C-N	5.29	127.52	122.07
1	go	212	GLU	CG-CD-OE1	5.29	130.57	118.40
1	gv	56	LEU	CA-C-O	5.29	126.37	120.82
1	gB	132	ARG	O-C-N	-5.29	116.62	122.07
1	gK	207	PRO	N-CA-C	-5.29	107.13	114.27
1	1F	186	THR	CA-C-N	5.29	127.80	120.29
1	1F	186	THR	C-N-CA	5.29	127.80	120.29
1	gN	121	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	h7	110	THR	N-CA-CB	5.29	117.82	110.04
1	hj	167	ARG	O-C-N	5.29	127.73	122.12
1	hB	179	GLN	O-C-N	-5.29	115.76	122.27
1	1L	128	GLU	N-CA-C	5.29	116.73	111.07
1	i2	48	THR	N-CA-CB	5.29	117.08	109.78
1	ia	167	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	id	206	GLY	O-C-N	-5.29	116.48	121.77
1	1O	194	ALA	O-C-N	-5.29	116.14	122.65
1	ik	151	LEU	N-CA-CB	-5.29	102.80	110.47
1	1P	128	GLU	O-C-N	5.29	127.73	122.12
1	is	89	GLY	CA-C-N	5.29	126.45	119.84
1	is	89	GLY	C-N-CA	5.29	126.45	119.84
1	iJ	97	ARG	N-CA-C	5.29	117.36	110.43
1	j9	210	THR	CA-C-N	5.29	127.63	120.38
1	j9	210	THR	C-N-CA	5.29	127.63	120.38
1	jc	51	ASP	CA-C-N	5.29	127.80	120.29
1	jc	51	ASP	C-N-CA	5.29	127.80	120.29
1	jr	112	GLN	CA-C-O	-5.29	114.83	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	7	GLN	N-CA-C	5.29	116.56	108.52
1	jO	122	PRO	N-CD-CG	5.29	110.15	103.80
1	jX	124	ILE	CA-CB-CG1	5.29	119.39	110.40
1	k9	46	GLY	N-CA-C	-5.29	107.81	115.27
1	kr	7	GLN	O-C-N	-5.29	116.14	122.65
1	ky	49	PRO	CA-C-N	5.29	127.63	120.38
1	ky	49	PRO	C-N-CA	5.29	127.63	120.38
1	kL	16	SER	CB-CA-C	5.29	117.72	109.42
1	l2	41	SER	CA-C-O	-5.29	115.27	120.82
1	lc	124	ILE	O-C-N	-5.29	115.41	120.59
1	27	97	ARG	N-CA-C	5.29	117.54	110.35
1	lB	214	MET	N-CA-C	5.29	117.13	111.36
1	lC	214	MET	CA-CB-CG	5.29	124.68	114.10
1	2r	48	THR	CA-C-O	-5.29	114.95	120.88
1	2E	175	GLU	N-CA-C	5.29	117.70	110.24
1	2S	224	PRO	O-C-N	-5.29	115.13	122.27
1	35	200	THR	O-C-N	5.29	127.73	122.12
1	3e	177	ALA	O-C-N	-5.29	117.35	123.33
1	3s	189	LEU	CA-C-O	5.29	126.38	119.98
1	3B	26	VAL	O-C-N	-5.29	116.38	121.83
1	3R	51	ASP	CA-CB-CG	-5.29	107.31	112.60
1	3V	19	THR	CA-C-O	-5.29	115.25	120.70
1	47	165	VAL	CG1-CB-CG2	-5.29	99.16	110.80
1	49	84	HIS	CG-CD2-NE2	5.29	112.49	107.20
1	4d	149	SER	O-C-N	-5.29	116.30	122.81
1	4m	147	PRO	O-C-N	5.29	129.78	122.64
1	4K	117	TRP	N-CA-C	5.29	117.96	111.82
1	4O	106	GLY	CA-C-N	5.29	128.75	120.82
1	4O	106	GLY	C-N-CA	5.29	128.75	120.82
1	4S	167	ARG	CD-NE-CZ	5.29	131.81	124.40
1	5F	83	LEU	CA-C-N	5.29	130.23	122.98
1	5F	83	LEU	C-N-CA	5.29	130.23	122.98
1	5V	83	LEU	CA-C-O	5.29	126.03	120.42
1	6v	29	GLU	N-CA-C	5.29	116.73	111.07
1	7e	86	VAL	CG1-CB-CG2	-5.29	99.16	110.80
1	7v	49	PRO	CA-C-N	5.29	127.68	120.54
1	7v	49	PRO	C-N-CA	5.29	127.68	120.54
1	7v	103	ASP	CA-CB-CG	-5.29	107.31	112.60
1	7N	59	VAL	N-CA-C	-5.29	102.76	109.58
1	87	91	ILE	CA-C-N	5.29	127.74	120.39
1	87	91	ILE	C-N-CA	5.29	127.74	120.39
1	88	15	ILE	CA-C-O	5.29	127.27	121.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	154	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	8a	97	ARG	CA-C-O	5.29	127.01	121.19
1	8s	18	ARG	CA-C-N	5.29	127.32	120.44
1	8s	18	ARG	C-N-CA	5.29	127.32	120.44
1	8K	132	ARG	CD-NE-CZ	5.29	131.81	124.40
1	91	183	ASN	CA-C-N	5.29	127.63	120.38
1	91	183	ASN	C-N-CA	5.29	127.63	120.38
1	95	72	THR	CA-CB-OG1	5.29	117.54	109.60
1	9l	199	LYS	CA-C-N	5.29	127.90	120.28
1	9l	199	LYS	C-N-CA	5.29	127.90	120.28
1	9p	150	ILE	CA-C-N	5.29	127.80	120.29
1	9p	150	ILE	C-N-CA	5.29	127.80	120.29
1	9t	212	GLU	O-C-N	-5.29	116.51	122.12
1	9H	214	MET	CG-SD-CE	-5.29	89.26	100.90
1	Z	180	GLU	CA-C-N	5.29	127.71	120.46
1	Z	180	GLU	C-N-CA	5.29	127.71	120.46
1	a5	179	GLN	N-CA-C	5.29	118.52	111.75
1	ac	53	ASN	O-C-N	-5.29	116.12	122.15
1	ah	10	MET	N-CA-C	5.29	117.70	110.24
1	aL	7	GLN	CB-CG-CD	5.29	121.59	112.60
1	aW	207	PRO	N-CD-CG	5.29	111.14	103.20
1	b5	220	GLY	CA-C-O	5.29	125.06	119.03
1	16	142	VAL	CA-C-O	5.29	126.55	121.05
1	bj	89	GLY	O-C-N	-5.29	116.48	121.77
1	bG	59	VAL	N-CA-CB	5.29	117.22	110.13
1	bT	101	GLY	CA-C-O	-5.29	115.05	120.66
1	c8	88	ALA	CA-C-N	5.29	130.18	121.87
1	c8	88	ALA	C-N-CA	5.29	130.18	121.87
1	1e	148	THR	CA-C-N	5.29	131.64	121.54
1	1e	148	THR	C-N-CA	5.29	131.64	121.54
1	cF	43	LEU	CA-C-O	5.29	126.11	120.24
1	cN	42	ALA	CA-C-O	5.29	126.03	119.79
1	cP	32	PHE	N-CA-CB	5.29	117.87	109.51
1	1h	160	PRO	N-CA-CB	5.29	108.81	103.25
1	d2	164	TYR	CB-CA-C	5.29	119.19	110.88
1	d6	14	ALA	CA-C-O	-5.29	115.94	121.55
1	1j	165	VAL	CA-C-N	5.29	127.32	120.44
1	1j	165	VAL	C-N-CA	5.29	127.32	120.44
1	dg	87	HIS	CB-CG-ND1	-5.29	114.77	122.70
1	di	215	MET	CG-SD-CE	-5.29	89.26	100.90
1	dm	24	VAL	CA-CB-CG1	5.29	119.39	110.40
1	dZ	101	GLY	N-CA-C	5.29	119.08	112.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	25	LYS	N-CA-C	5.29	117.79	111.71
1	et	187	GLU	N-CA-C	5.29	116.85	111.14
1	eU	24	VAL	N-CA-C	5.29	116.02	110.62
1	eU	26	VAL	N-CA-CB	5.29	116.38	110.51
1	fi	189	LEU	N-CA-CB	-5.29	102.34	110.12
1	ft	141	ILE	O-C-N	-5.29	116.25	121.96
1	fC	161	PHE	N-CA-C	5.29	117.05	111.28
1	fR	63	GLN	N-CA-C	5.29	116.73	111.07
1	fU	179	GLN	N-CA-C	5.29	117.46	111.11
1	g4	59	VAL	N-CA-CB	5.29	117.73	110.54
1	m	117	TRP	O-C-N	-5.29	116.38	122.09
1	t	110	THR	CA-C-N	5.29	128.10	120.38
1	t	110	THR	C-N-CA	5.29	128.10	120.38
1	y	35	GLU	N-CA-C	-5.29	106.66	113.01
1	y	106	GLY	CA-C-N	5.29	127.80	120.29
1	y	106	GLY	C-N-CA	5.29	127.80	120.29
1	4	52	LEU	N-CA-C	5.29	117.79	111.71
1	O	9	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	6	194	ALA	CA-C-O	5.29	127.33	121.56
1	gf	22	ALA	CA-C-O	5.29	126.16	120.55
1	gh	48	THR	CA-C-O	-5.29	113.69	121.46
1	1C	101	GLY	N-CA-C	-5.29	108.10	114.66
1	gB	167	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	gJ	120	HIS	N-CA-C	5.29	116.92	110.41
1	gK	140	LYS	O-C-N	-5.29	116.03	122.22
1	1G	63	GLN	N-CA-C	5.29	117.04	111.28
1	h3	174	ALA	CA-C-O	5.29	126.05	119.97
1	hd	78	ALA	N-CA-C	5.29	117.04	111.28
1	ho	37	ILE	CA-C-O	-5.29	112.86	119.95
1	hA	81	ASP	CA-CB-CG	5.29	117.89	112.60
1	hA	84	HIS	CA-CB-CG	-5.29	108.51	113.80
1	hJ	53	ASN	CA-CB-CG	-5.29	107.31	112.60
1	1L	42	ALA	CA-C-N	5.29	128.35	120.31
1	1L	42	ALA	C-N-CA	5.29	128.35	120.31
1	1M	38	PRO	CB-CA-C	5.29	120.48	112.55
1	hV	196	PRO	N-CA-C	5.29	123.36	112.47
1	hW	130	TYR	CB-CG-CD2	-5.29	112.87	120.80
1	i9	65	ALA	N-CA-C	5.29	117.04	111.28
1	ia	153	ILE	N-CA-C	5.29	117.25	109.63
1	ib	192	GLN	O-C-N	-5.29	115.76	122.27
1	ir	97	ARG	NE-CZ-NH2	5.29	123.96	119.20
1	iy	161	PHE	CA-C-O	5.29	126.15	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iC	16	SER	CB-CA-C	5.29	116.33	108.87
1	iC	200	THR	N-CA-C	5.29	117.05	111.28
1	iF	18	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	1R	25	LYS	N-CA-C	5.29	117.04	111.28
1	iI	142	VAL	O-C-N	-5.29	116.65	121.94
1	iN	90	PRO	O-C-N	-5.29	116.45	123.01
1	iR	117	TRP	CB-CG-CD1	5.29	134.83	126.90
1	iS	166	ASP	N-CA-C	5.29	117.12	111.36
1	iU	177	ALA	N-CA-C	5.29	122.06	110.80
1	j0	43	LEU	CB-CA-C	5.29	119.57	110.79
1	jb	168	PHE	N-CA-C	5.29	116.73	111.07
1	jr	159	GLU	N-CA-C	5.29	117.09	109.48
1	1W	136	LEU	O-C-N	-5.29	116.51	122.12
1	jw	126	VAL	O-C-N	-5.29	116.65	121.94
1	jL	87	HIS	N-CA-C	-5.29	105.53	112.41
1	jO	17	PRO	N-CA-CB	5.29	108.80	103.25
1	1Y	54	THR	N-CA-C	5.29	117.73	111.33
1	jR	163	ASP	CA-C-O	-5.29	114.94	120.55
1	20	25	LYS	O-C-N	-5.29	116.62	122.07
1	kb	91	ILE	CA-CB-CG1	5.29	119.39	110.40
1	ku	189	LEU	CA-C-N	5.29	127.68	120.54
1	ku	189	LEU	C-N-CA	5.29	127.68	120.54
1	kB	210	THR	CA-CB-CG2	5.29	119.49	110.50
1	kP	10	MET	O-C-N	-5.29	116.62	122.91
1	kX	223	GLY	CA-C-O	-5.29	113.96	121.52
1	25	100	ARG	CG-CD-NE	-5.29	100.37	112.00
1	l9	23	TRP	N-CA-C	5.29	116.73	111.07
1	le	53	ASN	CA-C-O	-5.29	114.81	120.42
1	lh	132	ARG	CA-C-O	5.29	126.08	120.10
1	li	163	ASP	CA-CB-CG	-5.29	107.31	112.60
1	lj	192	GLN	N-CA-C	5.29	122.07	110.80
1	lm	32	PHE	CB-CA-C	5.29	119.05	110.22
1	lo	70	LYS	N-CA-C	5.29	116.73	111.07
1	lp	62	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	lI	123	PRO	CA-C-N	5.29	131.92	123.46
1	lI	123	PRO	C-N-CA	5.29	131.92	123.46
1	2a	114	GLN	O-C-N	-5.29	116.52	122.12
1	lP	140	LYS	N-CA-C	5.29	116.73	111.07
1	lQ	57	ASN	O-C-N	-5.29	115.77	122.27
1	2k	61	GLY	CA-C-N	5.29	129.65	122.19
1	2k	61	GLY	C-N-CA	5.29	129.65	122.19
1	2k	111	LEU	CA-C-N	5.29	127.80	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2k	111	LEU	C-N-CA	5.29	127.80	120.29
1	2K	137	GLY	O-C-N	-5.29	116.89	122.13
1	2W	213	GLU	CA-C-N	5.29	127.37	120.28
1	2W	213	GLU	C-N-CA	5.29	127.37	120.28
1	31	33	SER	O-C-N	5.29	126.52	121.71
1	31	198	CYS	N-CA-C	5.29	116.73	111.07
1	39	21	ASN	O-C-N	-5.29	116.12	122.15
1	3a	40	PHE	N-CA-C	5.29	116.73	111.07
1	3h	6	LEU	CD1-CG-CD2	-5.29	99.17	110.80
1	3y	120	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	3H	69	LEU	CA-C-N	5.29	127.63	120.44
1	3H	69	LEU	C-N-CA	5.29	127.63	120.44
1	3P	190	LEU	N-CA-CB	-5.29	102.13	110.06
1	44	100	ARG	O-C-N	-5.29	116.82	122.85
1	4f	55	MET	N-CA-C	5.29	117.04	111.28
1	4f	205	LEU	CA-C-O	5.29	125.46	119.27
1	4f	211	LEU	O-C-N	-5.29	116.52	122.12
1	4v	85	PRO	CA-C-N	-5.29	113.87	122.33
1	4v	85	PRO	C-N-CA	-5.29	113.87	122.33
1	4E	139	ASN	CA-CB-CG	-5.29	107.31	112.60
1	4M	195	ASN	CA-CB-CG	5.29	117.89	112.60
1	4O	75	GLU	CA-C-O	-5.29	114.94	120.55
1	52	20	LEU	CA-C-O	-5.29	114.81	120.42
1	57	100	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	5c	200	THR	OG1-CB-CG2	-5.29	98.72	109.30
1	5u	19	THR	N-CA-C	5.29	117.12	111.36
1	5y	114	GLN	N-CA-C	5.29	117.05	111.28
1	5D	82	ARG	CA-C-O	5.29	126.11	120.24
1	5R	133	TRP	CA-C-N	5.29	127.22	120.56
1	5R	133	TRP	C-N-CA	5.29	127.22	120.56
1	5T	167	ARG	CG-CD-NE	-5.29	100.37	112.00
1	61	74	ASN	N-CA-CB	-5.29	102.16	110.30
1	62	37	ILE	O-C-N	-5.29	117.03	120.42
1	68	132	ARG	CB-CA-C	-5.29	101.69	110.68
1	6j	91	ILE	N-CA-C	-5.29	100.87	108.48
1	6n	26	VAL	CA-C-N	5.29	127.42	120.60
1	6n	26	VAL	C-N-CA	5.29	127.42	120.60
1	6v	216	THR	CA-C-O	-5.29	114.89	120.55
1	6w	7	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	6H	200	THR	O-C-N	-5.29	116.51	122.12
1	6J	40	PHE	O-C-N	-5.29	116.12	122.15
1	6J	69	LEU	O-C-N	-5.29	116.62	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6R	52	LEU	N-CA-C	5.29	116.73	111.07
1	6R	167	ARG	N-CA-C	5.29	116.73	111.07
1	71	212	GLU	N-CA-C	5.29	117.04	111.28
1	7G	124	ILE	CA-C-N	-5.29	113.23	119.84
1	7G	124	ILE	C-N-CA	-5.29	113.23	119.84
1	7L	143	ARG	NH1-CZ-NH2	-5.29	112.42	119.30
1	7L	144	MET	CA-C-O	5.29	126.08	120.10
1	7N	81	ASP	CA-CB-CG	5.29	117.89	112.60
1	87	169	TYR	CB-CG-CD1	5.29	128.73	120.80
1	8h	98	GLU	O-C-N	5.29	127.35	121.43
1	8m	133	TRP	CA-C-N	5.29	127.17	120.72
1	8m	133	TRP	C-N-CA	5.29	127.17	120.72
1	8o	24	VAL	N-CA-C	5.29	116.65	110.62
1	8q	160	PRO	N-CA-CB	5.29	108.02	103.31
1	8t	221	VAL	CA-C-N	5.29	129.14	122.00
1	8t	221	VAL	C-N-CA	5.29	129.14	122.00
1	8C	146	SER	O-C-N	-5.29	115.99	121.28
1	8M	60	GLY	O-C-N	-5.29	115.83	122.70
1	8U	139	ASN	CA-CB-CG	5.29	117.89	112.60
1	94	36	VAL	CA-C-O	5.29	126.18	120.47
1	96	198	CYS	O-C-N	-5.29	116.12	122.15
1	9c	185	MET	N-CA-C	5.29	116.73	111.07
1	9s	219	GLN	N-CA-C	5.29	117.45	109.41
1	9K	84	HIS	CA-CB-CG	5.29	119.09	113.80
1	Y	189	LEU	N-CA-CB	-5.29	102.34	110.01
1	ab	204	ALA	CA-C-O	5.29	126.16	120.55
1	ah	12	HIS	CA-C-O	5.29	127.52	121.28
1	ao	3	VAL	O-C-N	-5.29	117.49	123.20
1	aq	82	ARG	CA-C-N	5.29	129.55	120.72
1	aq	82	ARG	C-N-CA	5.29	129.55	120.72
1	at	92	GLU	CA-C-O	-5.29	112.92	120.16
1	aw	219	GLN	O-C-N	-5.29	116.51	122.12
1	aD	55	MET	CA-C-N	5.29	127.37	120.28
1	aD	55	MET	C-N-CA	5.29	127.37	120.28
1	b2	48	THR	N-CA-C	5.29	117.45	110.36
1	bl	61	GLY	N-CA-C	5.29	121.37	112.85
1	bo	130	TYR	N-CA-CB	-5.29	102.34	110.12
1	bq	9	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	bu	192	GLN	N-CA-C	5.29	117.04	111.28
1	bu	220	GLY	CA-C-N	5.29	129.11	121.18
1	bu	220	GLY	C-N-CA	5.29	129.11	121.18
1	bK	65	ALA	O-C-N	-5.29	116.38	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bK	72	THR	CA-C-O	-5.29	114.94	120.55
1	bL	85	PRO	N-CA-CB	5.29	107.76	103.32
1	bL	165	VAL	CA-CB-CG1	5.29	119.39	110.40
1	bS	226	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	bT	26	VAL	N-CA-C	5.29	115.50	110.42
1	bZ	39	MET	CA-C-O	5.29	126.37	120.82
1	c1	166	ASP	CA-C-N	5.29	127.31	120.44
1	c1	166	ASP	C-N-CA	5.29	127.31	120.44
1	c2	224	PRO	N-CA-C	5.29	123.37	112.47
1	c3	5	ASN	CA-CB-CG	5.29	117.89	112.60
1	cq	9	GLN	CA-CB-CG	5.29	124.68	114.10
1	cu	26	VAL	N-CA-C	5.29	116.06	110.72
1	cD	16	SER	CA-C-O	-5.29	115.32	119.66
1	cE	37	ILE	O-C-N	-5.29	115.07	121.10
1	cF	17	PRO	N-CA-C	5.29	120.88	113.53
1	cL	184	TRP	CB-CG-CD2	5.29	134.20	126.80
1	cN	20	LEU	CA-C-N	5.29	127.80	120.29
1	cN	20	LEU	C-N-CA	5.29	127.80	120.29
1	d0	19	THR	N-CA-CB	5.29	119.02	110.40
1	di	40	PHE	N-CA-C	-5.29	105.43	111.14
1	dn	14	ALA	CB-CA-C	5.29	118.69	109.65
1	do	57	ASN	CA-CB-CG	5.29	117.89	112.60
1	dp	76	GLU	CB-CA-C	5.29	119.57	110.79
1	du	138	LEU	O-C-N	-5.29	116.51	122.12
1	dz	72	THR	CA-CB-CG2	5.29	119.49	110.50
1	dA	130	TYR	CB-CG-CD1	5.29	128.73	120.80
1	dB	118	MET	N-CA-CB	5.29	117.99	110.16
1	dK	161	PHE	N-CA-C	5.29	117.05	111.28
1	dL	42	ALA	CA-C-N	5.29	127.89	120.28
1	dL	42	ALA	C-N-CA	5.29	127.89	120.28
1	dN	164	TYR	O-C-N	-5.29	116.62	122.07
1	dQ	63	GLN	CA-C-N	5.29	127.32	120.44
1	dQ	63	GLN	C-N-CA	5.29	127.32	120.44
1	dX	91	ILE	N-CA-C	5.29	116.83	109.80
1	dZ	149	SER	CA-C-N	5.29	128.97	120.30
1	dZ	149	SER	C-N-CA	5.29	128.97	120.30
1	e3	179	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	e5	177	ALA	O-C-N	-5.29	116.30	122.81
1	eh	210	THR	O-C-N	-5.29	116.82	122.85
1	eA	181	VAL	CB-CA-C	5.29	118.74	111.97
1	eI	165	VAL	CA-CB-CG2	-5.29	101.41	110.40
1	eP	82	ARG	NE-CZ-NH1	-5.29	116.21	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f6	136	LEU	CA-C-O	-5.29	114.94	120.55
1	fg	36	VAL	CA-C-N	5.29	131.91	122.13
1	fg	36	VAL	C-N-CA	5.29	131.91	122.13
1	fk	50	GLN	CB-CA-C	5.29	119.18	110.88
1	fm	75	GLU	CA-C-N	5.29	127.80	120.29
1	fm	75	GLU	C-N-CA	5.29	127.80	120.29
1	fp	137	GLY	CA-C-N	5.29	127.32	120.44
1	fp	137	GLY	C-N-CA	5.29	127.32	120.44
1	fx	173	ARG	CA-C-N	5.29	127.31	120.44
1	fx	173	ARG	C-N-CA	5.29	127.31	120.44
1	fC	20	LEU	N-CA-CB	5.29	117.74	110.07
1	1z	216	THR	CA-C-O	5.29	125.79	119.60
1	fW	21	ASN	O-C-N	-5.29	116.12	122.15
1	g0	104	ILE	CA-C-O	5.29	126.18	120.47
1	g	178	SER	N-CA-C	5.29	117.36	110.43
1	i	189	LEU	N-CA-C	5.29	117.79	111.71
1	l	148	THR	CA-C-N	5.29	128.35	120.95
1	l	148	THR	C-N-CA	5.29	128.35	120.95
1	A	48	THR	N-CA-CB	5.29	117.08	109.78
1	F	72	THR	N-CA-CB	5.29	117.86	109.82
1	H	217	ALA	O-C-N	-5.29	115.01	122.10
1	Q	107	THR	N-CA-C	5.29	116.73	111.07
1	W	148	THR	CA-C-O	-5.29	115.36	121.07
1	8	185	MET	O-C-N	-5.29	116.52	122.12
1	gH	111	LEU	N-CA-C	5.29	116.73	111.07
1	h9	6	LEU	CA-C-O	5.29	128.07	120.51
1	hl	62	HIS	O-C-N	-5.29	116.52	122.86
1	hq	62	HIS	CB-CG-ND1	-5.29	114.77	122.70
1	hr	165	VAL	O-C-N	-5.29	116.73	121.91
1	hI	65	ALA	CA-C-O	-5.29	115.45	121.00
1	hJ	28	GLU	N-CA-C	5.29	116.73	111.07
1	hZ	161	PHE	O-C-N	-5.29	115.56	122.59
1	ij	130	TYR	CB-CA-C	5.29	119.18	110.88
1	in	1	PRO	N-CA-CB	5.29	108.81	103.00
1	iv	169	TYR	O-C-N	-5.29	115.77	122.27
1	iF	57	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	jl	165	VAL	O-C-N	5.29	127.00	121.87
1	jr	6	LEU	N-CA-CB	5.29	117.33	109.19
1	jF	188	THR	N-CA-CB	5.29	120.95	110.48
1	jR	1	PRO	CB-CA-C	5.29	120.14	110.10
1	jX	186	THR	N-CA-CB	5.29	117.82	109.94
1	k3	191	VAL	CA-C-O	-5.29	114.67	119.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kp	82	ARG	CD-NE-CZ	5.29	131.80	124.40
1	22	110	THR	N-CA-CB	5.29	118.33	110.29
1	kz	95	GLN	CG-CD-NE2	5.29	124.33	116.40
1	23	127	GLY	O-C-N	-5.29	117.06	122.19
1	kJ	74	ASN	CA-C-O	5.29	126.37	120.82
1	kS	66	MET	CA-C-O	5.29	126.15	120.55
1	l8	229	ARG	CB-CG-CD	5.29	123.46	111.30
1	lh	121	ASN	OD1-CG-ND2	5.29	127.89	122.60
1	ll	117	TRP	CA-C-O	-5.29	114.13	120.10
1	lp	219	GLN	CB-CG-CD	5.29	121.59	112.60
1	lD	160	PRO	N-CA-CB	5.29	107.95	103.35
1	lJ	70	LYS	CA-C-O	5.29	126.37	120.82
1	2r	84	HIS	CB-CA-C	-5.29	104.94	110.33
1	2t	43	LEU	CA-C-O	5.29	125.54	119.35
1	2y	229	ARG	NH1-CZ-NH2	-5.29	112.43	119.30
1	2N	12	HIS	CB-CG-CD2	-5.29	124.33	131.20
1	3m	221	VAL	CB-CA-C	-5.29	103.26	110.77
1	3O	132	ARG	NH1-CZ-NH2	-5.29	112.43	119.30
1	4a	150	ILE	CA-CB-CG1	5.29	119.39	110.40
1	4b	2	ILE	O-C-N	-5.29	116.94	122.81
1	4J	114	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	4Z	61	GLY	CA-C-N	5.29	129.69	122.34
1	4Z	61	GLY	C-N-CA	5.29	129.69	122.34
1	5G	230	VAL	CA-CB-CG2	5.29	119.39	110.40
1	63	10	MET	CA-C-O	-5.29	115.59	121.51
1	66	37	ILE	CA-C-N	5.29	124.61	118.85
1	66	37	ILE	C-N-CA	5.29	124.61	118.85
1	6a	12	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	6b	44	SER	CA-C-N	5.29	127.36	120.28
1	6b	44	SER	C-N-CA	5.29	127.36	120.28
1	6p	209	ALA	CA-C-O	5.29	127.16	121.55
1	6B	66	MET	CA-C-N	5.29	127.31	120.44
1	6B	66	MET	C-N-CA	5.29	127.31	120.44
1	74	162	ARG	O-C-N	-5.29	116.03	122.11
1	7m	170	LYS	N-CA-C	5.29	117.04	111.28
1	7J	190	LEU	N-CA-C	5.29	117.04	111.28
1	7M	142	VAL	CA-CB-CG1	5.29	119.39	110.40
1	7X	184	TRP	CB-CA-C	5.29	119.10	110.96
1	88	91	ILE	CB-CA-C	5.29	118.45	111.21
1	8c	39	MET	CA-C-O	5.29	126.11	120.24
1	8j	165	VAL	CA-CB-CG1	5.29	119.39	110.40
1	8p	15	ILE	O-C-N	-5.29	116.00	122.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8Y	42	ALA	CA-C-N	5.29	129.67	120.68
1	8Y	42	ALA	C-N-CA	5.29	129.67	120.68
1	94	165	VAL	CA-CB-CG2	5.29	119.39	110.40
1	9m	38	PRO	CB-CA-C	5.29	120.28	111.56
1	9u	155	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	9A	110	THR	CA-C-N	5.29	127.89	120.28
1	9A	110	THR	C-N-CA	5.29	127.89	120.28
1	9I	202	LEU	N-CA-C	5.29	117.04	111.28
1	9N	165	VAL	CA-C-O	-5.29	115.77	121.27
1	ax	80	TRP	CB-CG-CD1	5.29	134.83	126.90
1	ay	179	GLN	CA-C-N	5.29	127.80	120.29
1	ay	179	GLN	C-N-CA	5.29	127.80	120.29
1	bd	176	GLN	CA-C-O	5.29	126.95	120.92
1	bi	135	ILE	CA-C-N	5.29	127.68	120.54
1	bi	135	ILE	C-N-CA	5.29	127.68	120.54
1	18	97	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	bt	189	LEU	N-CA-C	5.29	117.04	111.28
1	c0	8	GLY	CA-C-O	-5.29	113.27	119.72
1	c0	62	HIS	CG-ND1-CE1	-5.29	100.31	109.30
1	c7	110	THR	CA-C-N	5.29	127.62	120.38
1	c7	110	THR	C-N-CA	5.29	127.62	120.38
1	cE	226	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	cJ	150	ILE	O-C-N	-5.29	116.56	121.90
1	cK	207	PRO	CA-C-O	-5.29	111.60	119.00
1	cN	69	LEU	CA-C-O	5.29	126.56	120.90
1	d7	169	TYR	N-CA-C	5.29	116.85	111.14
1	dg	218	CYS	O-C-N	-5.29	116.23	122.58
1	dm	85	PRO	N-CA-CB	-5.29	97.70	103.25
1	dT	67	GLN	OE1-CD-NE2	5.29	127.89	122.60
1	e0	26	VAL	N-CA-CB	5.29	117.73	110.54
1	e6	206	GLY	O-C-N	-5.29	116.48	121.77
1	eh	130	TYR	CB-CA-C	5.29	119.18	110.88
1	eE	34	PRO	N-CA-C	-5.29	109.18	114.68
1	eJ	146	SER	N-CA-CB	5.29	117.18	110.04
1	eM	116	GLY	N-CA-C	5.29	119.04	112.64
1	eS	101	GLY	CA-C-N	5.29	127.89	120.28
1	eS	101	GLY	C-N-CA	5.29	127.89	120.28
1	eU	48	THR	CA-C-N	5.29	126.45	119.84
1	eU	48	THR	C-N-CA	5.29	126.45	119.84
1	fU	143	ARG	N-CA-CB	5.29	117.68	110.01
1	g5	12	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	c	57	ASN	N-CA-C	5.29	116.73	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	230	VAL	CA-C-N	5.29	131.22	121.70
1	i	230	VAL	C-N-CA	5.29	131.22	121.70
1	l	41	SER	CA-C-O	5.29	126.15	120.55
1	n	192	GLN	O-C-N	-5.29	116.62	122.07
1	p	5	ASN	CA-C-N	5.29	128.10	120.38
1	p	5	ASN	C-N-CA	5.29	128.10	120.38
1	s	96	MET	O-C-N	-5.29	117.02	122.94
1	F	150	ILE	CB-CG1-CD1	5.29	124.90	113.80
1	R	109	SER	CA-C-O	-5.29	115.17	121.89
1	5	54	THR	O-C-N	-5.29	116.52	122.12
1	gi	187	GLU	O-C-N	5.29	127.72	122.12
1	gk	181	VAL	CB-CA-C	-5.29	105.20	111.97
1	gr	127	GLY	CA-C-N	5.29	127.31	120.44
1	gr	127	GLY	C-N-CA	5.29	127.31	120.44
1	gI	186	THR	CA-C-O	5.29	126.84	120.92
1	gQ	147	PRO	N-CD-CG	5.29	111.13	103.20
1	gQ	167	ARG	O-C-N	-5.29	116.12	122.15
1	gT	218	CYS	CA-C-O	5.29	127.57	121.28
1	h1	167	ARG	N-CA-CB	5.29	117.89	110.12
1	h3	36	VAL	O-C-N	-5.29	116.74	121.87
1	h5	135	ILE	CA-CB-CG2	5.29	119.49	110.50
1	hk	43	LEU	N-CA-CB	-5.29	102.08	110.22
1	hq	221	VAL	CA-C-O	5.29	126.08	120.26
1	hw	153	ILE	N-CA-C	5.29	117.47	109.12
1	hC	111	LEU	N-CA-C	5.29	117.04	111.28
1	hI	123	PRO	CB-CA-C	5.29	120.28	111.56
1	hL	138	LEU	CA-C-N	5.29	127.31	120.44
1	hL	138	LEU	C-N-CA	5.29	127.31	120.44
1	hU	54	THR	CA-CB-CG2	5.29	119.49	110.50
1	hY	28	GLU	N-CA-C	5.29	116.73	111.07
1	i1	5	ASN	CA-CB-CG	5.29	117.89	112.60
1	1N	135	ILE	CA-C-N	5.29	127.36	120.28
1	1N	135	ILE	C-N-CA	5.29	127.36	120.28
1	i5	21	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	i7	135	ILE	CB-CA-C	5.29	120.35	112.16
1	id	57	ASN	CA-CB-CG	5.29	117.89	112.60
1	id	216	THR	O-C-N	-5.29	116.00	122.34
1	1O	64	ALA	N-CA-C	5.29	116.85	111.14
1	ig	113	GLU	CB-CA-C	-5.29	102.02	110.79
1	ii	97	ARG	NE-CZ-NH1	5.29	126.78	121.50
1	ij	149	SER	N-CA-C	5.29	118.10	110.28
1	1R	195	ASN	N-CA-C	5.29	117.19	109.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iL	4	GLN	O-C-N	-5.29	117.14	123.27
1	iR	62	HIS	ND1-CG-CD2	5.29	111.39	106.10
1	iV	104	ILE	N-CA-C	5.29	116.06	110.72
1	iX	42	ALA	O-C-N	-5.29	115.77	122.27
1	j4	120	HIS	CG-CD2-NE2	5.29	112.48	107.20
1	jb	20	LEU	CA-C-N	5.29	127.63	120.44
1	jb	20	LEU	C-N-CA	5.29	127.63	120.44
1	jh	70	LYS	CA-C-O	5.29	126.37	120.82
1	jj	76	GLU	O-C-N	-5.29	116.52	122.12
1	jm	37	ILE	O-C-N	-5.29	117.04	120.42
1	jr	164	TYR	CB-CG-CD1	5.29	128.73	120.80
1	jy	35	GLU	CA-C-N	5.29	127.70	120.46
1	jy	35	GLU	C-N-CA	5.29	127.70	120.46
1	jA	96	MET	N-CA-C	5.29	117.89	110.23
1	jB	120	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	1X	220	GLY	CA-C-N	5.29	128.26	120.91
1	1X	220	GLY	C-N-CA	5.29	128.26	120.91
1	jJ	97	ARG	CD-NE-CZ	5.29	131.80	124.40
1	jK	86	VAL	N-CA-CB	5.29	118.65	110.14
1	jM	90	PRO	O-C-N	-5.29	115.51	122.64
1	jN	226	HIS	CG-CD2-NE2	5.29	112.48	107.20
1	jO	201	ILE	CB-CA-C	-5.29	104.93	112.22
1	jX	149	SER	N-CA-CB	5.29	119.03	110.41
1	k0	132	ARG	CA-C-N	5.29	127.36	120.28
1	k0	132	ARG	C-N-CA	5.29	127.36	120.28
1	k5	67	GLN	O-C-N	-5.29	116.59	122.09
1	k6	2	ILE	N-CA-CB	-5.29	106.40	112.21
1	k7	85	PRO	N-CD-CG	5.29	111.13	103.20
1	ka	36	VAL	CA-C-N	5.29	131.91	122.13
1	ka	36	VAL	C-N-CA	5.29	131.91	122.13
1	kf	187	GLU	N-CA-C	5.29	117.12	111.36
1	ks	73	ILE	N-CA-CB	5.29	116.73	110.55
1	kt	133	TRP	N-CA-C	5.29	116.73	111.07
1	kA	150	ILE	CA-C-O	5.29	126.18	120.47
1	kI	230	VAL	CG1-CB-CG2	-5.29	99.17	110.80
1	kO	218	CYS	CB-CA-C	5.29	119.52	111.80
1	kT	125	PRO	CA-C-N	5.29	127.70	120.46
1	kT	125	PRO	C-N-CA	5.29	127.70	120.46
1	kW	57	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	l3	20	LEU	CA-C-O	5.29	126.02	120.42
1	l3	186	THR	O-C-N	-5.29	116.62	122.07
1	l7	85	PRO	CA-N-CD	-5.29	104.60	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	la	201	ILE	CA-CB-CG2	5.29	119.49	110.50
1	lc	82	ARG	N-CA-CB	5.29	117.73	110.07
1	lj	22	ALA	O-C-N	-5.29	116.52	122.12
1	lr	197	ASP	O-C-N	-5.29	114.71	122.43
1	lu	51	ASP	CB-CA-C	-5.29	102.58	110.88
1	lP	101	GLY	CA-C-N	5.29	127.36	120.28
1	lP	101	GLY	C-N-CA	5.29	127.36	120.28
1	lR	12	HIS	CG-CD2-NE2	5.29	112.48	107.20
1	2j	7	GLN	CA-CB-CG	5.29	124.67	114.10
1	2l	205	LEU	N-CA-CB	-5.29	102.35	110.01
1	2s	149	SER	CA-C-N	5.29	131.48	121.97
1	2s	149	SER	C-N-CA	5.29	131.48	121.97
1	2t	229	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	2D	132	ARG	N-CA-C	5.29	117.04	111.28
1	2E	43	LEU	CA-C-N	5.29	131.95	122.38
1	2E	43	LEU	C-N-CA	5.29	131.95	122.38
1	2F	88	ALA	O-C-N	-5.29	116.91	123.36
1	2Q	95	GLN	N-CA-C	-5.29	101.25	108.38
1	2R	132	ARG	NE-CZ-NH1	-5.29	116.21	121.50
1	2R	163	ASP	CA-C-O	5.29	126.02	120.42
1	2V	68	MET	CA-C-N	5.29	127.62	120.38
1	2V	68	MET	C-N-CA	5.29	127.62	120.38
1	2W	31	ALA	N-CA-C	5.29	122.06	110.80
1	35	216	THR	CA-C-N	5.29	128.73	120.75
1	35	216	THR	C-N-CA	5.29	128.73	120.75
1	3r	73	ILE	CA-C-N	5.29	127.31	120.44
1	3r	73	ILE	C-N-CA	5.29	127.31	120.44
1	3v	105	ALA	N-CA-C	5.29	119.59	113.20
1	3A	43	LEU	N-CA-C	5.29	117.79	111.71
1	3A	120	HIS	N-CA-C	5.29	116.91	110.41
1	3B	223	GLY	CA-C-O	-5.29	116.07	121.62
1	3C	84	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	3D	61	GLY	O-C-N	-5.29	118.27	122.81
1	3E	134	ILE	O-C-N	-5.29	116.73	121.91
1	3F	68	MET	CA-C-N	5.29	127.36	120.28
1	3F	68	MET	C-N-CA	5.29	127.36	120.28
1	3M	96	MET	CA-C-O	5.29	126.97	121.15
1	3Q	118	MET	N-CA-C	-5.29	106.78	113.18
1	4e	98	GLU	N-CA-C	5.29	116.35	109.64
1	4p	189	LEU	CA-C-N	5.29	127.67	120.54
1	4p	189	LEU	C-N-CA	5.29	127.67	120.54
1	4C	146	SER	N-CA-C	5.29	121.49	109.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	51	120	HIS	CE1-NE2-CD2	-5.29	103.72	109.00
1	55	4	GLN	O-C-N	-5.29	115.56	122.59
1	5n	1	PRO	N-CA-C	-5.29	98.89	112.10
1	5x	126	VAL	N-CA-C	5.29	117.70	111.09
1	5y	62	HIS	CB-CG-ND1	-5.29	114.77	122.70
1	5E	117	TRP	N-CA-C	5.29	117.79	111.71
1	5U	160	PRO	N-CA-C	5.29	119.50	111.15
1	60	27	VAL	CA-CB-CG2	5.29	119.38	110.40
1	61	142	VAL	CA-C-N	5.29	127.36	120.28
1	61	142	VAL	C-N-CA	5.29	127.36	120.28
1	65	73	ILE	O-C-N	-5.29	115.94	122.18
1	66	210	THR	N-CA-C	5.29	118.25	110.59
1	6d	204	ALA	CA-C-N	5.29	127.63	120.65
1	6d	204	ALA	C-N-CA	5.29	127.63	120.65
1	6h	167	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	6l	52	LEU	CA-C-O	5.29	126.15	120.55
1	6v	79	GLU	N-CA-C	5.29	116.73	111.07
1	6X	189	LEU	N-CA-C	5.29	116.73	111.07
1	77	50	GLN	O-C-N	-5.29	116.52	122.12
1	77	86	VAL	CA-CB-CG1	5.29	119.39	110.40
1	77	133	TRP	CB-CG-CD1	5.29	134.83	126.90
1	7p	107	THR	CA-C-O	5.29	124.95	119.14
1	7r	89	GLY	CA-C-N	5.29	126.45	119.84
1	7r	89	GLY	C-N-CA	5.29	126.45	119.84
1	7s	12	HIS	ND1-CE1-NE2	5.29	113.69	108.40
1	7x	176	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	85	117	TRP	CB-CG-CD2	5.29	134.20	126.80
1	8m	97	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	8v	180	GLU	O-C-N	-5.29	116.52	122.12
1	8y	126	VAL	N-CA-CB	-5.29	103.35	110.54
1	8H	101	GLY	CA-C-N	5.29	127.36	120.28
1	8H	101	GLY	C-N-CA	5.29	127.36	120.28
1	8P	193	ASN	O-C-N	-5.29	115.76	122.26
1	9a	28	GLU	O-C-N	-5.29	116.59	122.09
1	9f	146	SER	O-C-N	-5.29	115.24	121.32
1	9j	6	LEU	N-CA-CB	5.29	119.42	110.49
1	9l	196	PRO	CA-C-N	5.29	131.95	122.38
1	9l	196	PRO	C-N-CA	5.29	131.95	122.38
1	9w	74	ASN	CB-CG-OD1	5.29	131.37	120.80
1	9E	37	ILE	CA-C-O	5.29	123.34	118.85
1	9F	18	ARG	CA-C-N	5.29	127.31	120.44
1	9F	18	ARG	C-N-CA	5.29	127.31	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Z	193	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	a8	52	LEU	CA-C-O	5.29	126.37	120.82
1	aA	82	ARG	CD-NE-CZ	5.29	131.80	124.40
1	aB	104	ILE	N-CA-CB	5.29	116.17	110.62
1	aL	35	GLU	N-CA-C	5.29	116.72	111.07
1	14	177	ALA	N-CA-C	5.29	117.11	110.24
1	aT	135	ILE	O-C-N	-5.29	116.74	121.87
1	ba	43	LEU	N-CA-C	-5.29	106.34	112.89
1	ba	224	PRO	N-CA-C	5.29	123.36	112.47
1	bc	91	ILE	N-CA-C	5.29	116.83	109.80
1	bm	180	GLU	CA-C-N	5.29	127.22	120.56
1	bm	180	GLU	C-N-CA	5.29	127.22	120.56
1	bn	9	GLN	N-CA-C	5.29	118.23	110.30
1	18	53	ASN	OD1-CG-ND2	-5.29	117.31	122.60
1	bu	135	ILE	N-CA-C	5.29	116.01	110.62
1	bz	120	HIS	CG-CD2-NE2	5.29	112.49	107.20
1	19	22	ALA	O-C-N	-5.29	116.38	122.09
1	bZ	107	THR	N-CA-C	5.29	119.86	113.41
1	ck	61	GLY	O-C-N	-5.29	117.26	122.86
1	cl	100	ARG	N-CA-C	-5.29	102.37	110.14
1	cH	164	TYR	N-CA-C	5.29	117.04	111.28
1	cI	180	GLU	N-CA-C	5.29	117.45	111.11
1	cR	186	THR	CA-C-O	-5.29	115.25	120.90
1	cU	119	THR	CB-CA-C	-5.29	101.63	110.56
1	d1	176	GLN	OE1-CD-NE2	-5.29	117.31	122.60
1	dh	69	LEU	CB-CA-C	5.29	119.27	110.81
1	dh	82	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	dn	133	TRP	CA-C-O	5.29	126.15	120.55
1	dA	229	ARG	CD-NE-CZ	-5.29	117.00	124.40
1	dG	139	ASN	CA-C-N	5.29	127.68	120.54
1	dG	139	ASN	C-N-CA	5.29	127.68	120.54
1	dG	216	THR	CA-C-N	5.29	128.37	120.87
1	dG	216	THR	C-N-CA	5.29	128.37	120.87
1	1m	99	PRO	CA-C-N	5.29	132.65	122.03
1	1m	99	PRO	C-N-CA	5.29	132.65	122.03
1	dK	183	ASN	N-CA-C	5.29	117.04	111.28
1	dL	82	ARG	NE-CZ-NH1	5.29	126.79	121.50
1	1n	146	SER	N-CA-C	5.29	117.19	109.84
1	1n	230	VAL	CB-CA-C	-5.29	102.62	111.29
1	er	179	GLN	CA-C-N	5.29	127.36	120.28
1	er	179	GLN	C-N-CA	5.29	127.36	120.28
1	et	114	GLN	N-CA-CB	5.29	117.85	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eB	150	ILE	CA-CB-CG1	5.29	119.39	110.40
1	1t	32	PHE	CA-CB-CG	-5.29	108.51	113.80
1	eR	185	MET	CB-CA-C	-5.29	100.52	110.67
1	eV	29	GLU	N-CA-CB	-5.29	102.76	110.53
1	1v	40	PHE	N-CA-C	5.29	117.45	111.11
1	fd	139	ASN	CA-CB-CG	-5.29	107.31	112.60
1	fd	155	GLN	O-C-N	-5.29	116.37	122.87
1	fh	45	GLU	CB-CA-C	-5.29	102.02	110.79
1	fi	82	ARG	NE-CZ-NH2	5.29	123.96	119.20
1	fp	205	LEU	CB-CA-C	5.29	119.56	110.79
1	fu	92	GLU	N-CA-C	5.29	117.19	109.84
1	fA	51	ASP	N-CA-C	5.29	117.04	111.28
1	fA	120	HIS	CE1-NE2-CD2	-5.29	103.71	109.00
1	fD	166	ASP	N-CA-CB	-5.29	102.35	110.12
1	fT	20	LEU	O-C-N	-5.29	116.52	122.12
1	fU	58	THR	N-CA-C	5.29	119.35	113.01
1	fV	169	TYR	N-CA-CB	5.29	118.47	110.28
1	fX	168	PHE	CB-CA-C	5.29	119.10	110.96
1	fZ	153	ILE	CA-C-N	5.29	129.19	121.31
1	fZ	153	ILE	C-N-CA	5.29	129.19	121.31
1	i	128	GLU	CA-C-O	-5.29	114.95	120.55
1	t	106	GLY	CA-C-O	5.29	124.88	119.01
1	x	51	ASP	N-CA-C	5.29	116.72	111.07
1	B	63	GLN	CA-C-O	-5.29	112.76	119.31
1	B	135	ILE	N-CA-C	-5.29	105.38	110.72
1	C	182	LYS	N-CA-C	5.29	117.04	111.28
1	Q	36	VAL	N-CA-C	5.29	115.49	110.42
1	T	87	HIS	CA-C-O	5.29	126.11	120.46
1	gd	182	LYS	O-C-N	5.28	128.17	122.15
1	gh	52	LEU	N-CA-C	5.28	116.72	111.07
1	1D	136	LEU	CA-C-O	5.28	126.02	120.42
1	gy	141	ILE	CA-C-N	5.28	127.22	120.56
1	gy	141	ILE	C-N-CA	5.28	127.22	120.56
1	gz	164	TYR	CB-CG-CD2	5.28	128.72	120.80
1	1E	75	GLU	N-CA-C	5.28	116.72	111.07
1	gE	117	TRP	N-CA-C	5.28	117.95	111.82
1	gF	150	ILE	CA-CB-CG1	5.28	119.38	110.40
1	gH	187	GLU	N-CA-C	5.28	117.12	111.36
1	gT	185	MET	O-C-N	-5.28	116.52	122.12
1	gU	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	h6	41	SER	CA-C-N	5.28	128.34	120.31
1	h6	41	SER	C-N-CA	5.28	128.34	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	6	LEU	N-CA-C	5.28	117.79	111.71
1	hn	37	ILE	CA-C-N	5.28	126.44	119.84
1	hn	37	ILE	C-N-CA	5.28	126.44	119.84
1	ht	48	THR	CA-C-N	5.28	126.44	119.84
1	ht	48	THR	C-N-CA	5.28	126.44	119.84
1	hu	98	GLU	CA-C-O	5.28	126.46	120.70
1	hu	167	ARG	CB-CA-C	-5.28	101.87	110.85
1	hw	74	ASN	CA-CB-CG	-5.28	107.32	112.60
1	hE	208	ALA	CA-C-O	5.28	125.53	119.35
1	hS	166	ASP	CA-CB-CG	-5.28	107.32	112.60
1	i0	188	THR	OG1-CB-CG2	-5.28	98.73	109.30
1	1N	203	LYS	CA-C-N	5.28	127.36	120.28
1	1N	203	LYS	C-N-CA	5.28	127.36	120.28
1	i5	114	GLN	CA-C-N	5.28	127.92	120.42
1	i5	114	GLN	C-N-CA	5.28	127.92	120.42
1	i8	213	GLU	O-C-N	5.28	128.17	122.15
1	it	224	PRO	N-CA-C	5.28	119.87	111.26
1	iv	54	THR	CA-C-N	5.28	127.31	120.44
1	iv	54	THR	C-N-CA	5.28	127.31	120.44
1	iI	22	ALA	CA-C-N	5.28	127.67	120.54
1	iI	22	ALA	C-N-CA	5.28	127.67	120.54
1	iQ	224	PRO	CA-C-N	5.28	130.04	120.79
1	iQ	224	PRO	C-N-CA	5.28	130.04	120.79
1	iR	84	HIS	CB-CA-C	-5.28	104.94	110.17
1	1T	132	ARG	N-CA-C	5.28	117.04	111.28
1	j8	140	LYS	CA-C-O	-5.28	114.95	120.55
1	jb	144	MET	CG-SD-CE	-5.28	89.28	100.90
1	jf	112	GLN	CG-CD-NE2	5.28	124.33	116.40
1	jm	14	ALA	O-C-N	-5.28	116.31	122.81
1	jr	212	GLU	CA-C-O	5.28	126.07	120.10
1	jz	120	HIS	CB-CG-CD2	-5.28	124.33	131.20
1	jS	87	HIS	ND1-CG-CD2	-5.28	100.82	106.10
1	k0	176	GLN	CA-C-O	5.28	125.61	119.32
1	ka	53	ASN	N-CA-C	5.28	117.12	111.36
1	kf	115	ILE	CA-C-N	5.28	131.77	121.41
1	kf	115	ILE	C-N-CA	5.28	131.77	121.41
1	22	41	SER	N-CA-C	5.28	117.12	111.36
1	kA	146	SER	N-CA-C	5.28	120.66	113.16
1	kU	18	ARG	NE-CZ-NH2	5.28	123.96	119.20
1	l0	222	GLY	CA-C-N	5.28	130.16	121.87
1	l0	222	GLY	C-N-CA	5.28	130.16	121.87
1	l4	24	VAL	CA-C-O	-5.28	115.57	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l9	81	ASP	N-CA-C	5.28	117.04	111.28
1	le	152	ASP	N-CA-C	-5.28	105.68	113.61
1	lh	115	ILE	CA-C-N	5.28	125.96	119.99
1	lh	115	ILE	C-N-CA	5.28	125.96	119.99
1	ll	100	ARG	NE-CZ-NH2	-5.28	114.44	119.20
1	lC	12	HIS	CA-CB-CG	5.28	119.08	113.80
1	lF	16	SER	N-CA-C	5.28	117.09	109.48
1	lJ	8	GLY	CA-C-N	5.28	129.80	120.87
1	lJ	8	GLY	C-N-CA	5.28	129.80	120.87
1	lJ	159	GLU	O-C-N	-5.28	116.00	121.28
1	lL	221	VAL	O-C-N	5.28	127.00	121.87
1	lO	37	ILE	O-C-N	-5.28	117.04	120.42
1	2p	135	ILE	CA-C-O	-5.28	115.45	120.95
1	2r	57	ASN	CA-C-N	5.28	128.34	120.31
1	2r	57	ASN	C-N-CA	5.28	128.34	120.31
1	2v	121	ASN	CA-CB-CG	5.28	117.88	112.60
1	2P	169	TYR	N-CA-C	5.28	117.04	111.28
1	2R	98	GLU	N-CA-C	5.28	116.48	109.93
1	39	105	ALA	N-CA-CB	-5.28	101.86	110.42
1	3z	5	ASN	OD1-CG-ND2	-5.28	117.32	122.60
1	3E	87	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	3L	75	GLU	N-CA-C	5.28	117.04	111.28
1	3O	84	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	3X	181	VAL	CA-CB-CG1	-5.28	101.42	110.40
1	41	12	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	41	171	THR	CB-CA-C	5.28	119.83	110.85
1	42	90	PRO	N-CA-C	5.28	119.87	111.26
1	48	152	ASP	N-CA-C	-5.28	105.52	111.28
1	4c	78	ALA	N-CA-CB	-5.28	102.35	110.12
1	4n	202	LEU	CA-C-N	5.28	127.79	120.29
1	4n	202	LEU	C-N-CA	5.28	127.79	120.29
1	4M	62	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	4N	63	GLN	CG-CD-NE2	5.28	124.33	116.40
1	4X	123	PRO	N-CA-CB	-5.28	98.75	103.35
1	5e	185	MET	CG-SD-CE	-5.28	89.28	100.90
1	5i	93	PRO	CA-C-O	-5.28	115.58	121.23
1	5q	95	GLN	O-C-N	-5.28	116.37	122.87
1	5u	223	GLY	O-C-N	5.28	127.05	121.77
1	5z	26	VAL	N-CA-C	5.28	115.91	110.36
1	5P	200	THR	CA-C-N	5.28	127.22	120.56
1	5P	200	THR	C-N-CA	5.28	127.22	120.56
1	5T	127	GLY	O-C-N	5.28	129.57	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	67	134	ILE	CA-CB-CG1	-5.28	101.42	110.40
1	6a	95	GLN	O-C-N	-5.28	116.28	123.10
1	6m	88	ALA	N-CA-C	5.28	122.05	110.80
1	6u	176	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	6z	52	LEU	CA-C-N	5.28	127.36	120.28
1	6z	52	LEU	C-N-CA	5.28	127.36	120.28
1	6A	190	LEU	N-CA-C	-5.28	105.60	111.36
1	6B	196	PRO	N-CA-CB	5.28	108.80	103.25
1	6W	107	THR	N-CA-C	5.28	117.04	111.28
1	6W	111	LEU	O-C-N	5.28	128.40	122.22
1	7b	50	GLN	N-CA-C	5.28	117.45	111.11
1	7i	71	GLU	N-CA-C	5.28	117.45	111.11
1	7r	31	ALA	N-CA-C	5.28	122.05	110.80
1	7u	23	TRP	N-CA-C	5.28	117.47	111.02
1	7z	169	TYR	N-CA-C	5.28	117.04	111.28
1	7A	166	ASP	CA-CB-CG	5.28	117.88	112.60
1	7E	110	THR	CA-C-N	5.28	127.89	120.28
1	7E	110	THR	C-N-CA	5.28	127.89	120.28
1	7I	140	LYS	N-CA-C	5.28	117.04	111.28
1	7N	201	ILE	CA-C-N	5.28	127.36	120.28
1	7N	201	ILE	C-N-CA	5.28	127.36	120.28
1	80	153	ILE	CB-CG1-CD1	5.28	124.90	113.80
1	87	105	ALA	CA-C-O	5.28	125.82	119.43
1	88	121	ASN	CB-CA-C	-5.28	104.08	110.15
1	8n	228	ALA	CA-C-N	5.28	128.21	120.71
1	8n	228	ALA	C-N-CA	5.28	128.21	120.71
1	8p	32	PHE	CA-C-O	5.28	125.82	119.43
1	8F	226	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	8G	210	THR	CA-CB-OG1	-5.28	101.67	109.60
1	8I	191	VAL	O-C-N	-5.28	116.39	121.83
1	8J	135	ILE	N-CA-CB	5.28	117.73	110.54
1	8T	23	TRP	CB-CG-CD2	5.28	134.20	126.80
1	90	128	GLU	CB-CG-CD	-5.28	103.62	112.60
1	90	142	VAL	CA-C-N	5.28	127.79	120.29
1	90	142	VAL	C-N-CA	5.28	127.79	120.29
1	95	204	ALA	N-CA-C	5.28	116.72	111.07
1	99	122	PRO	CA-N-CD	-5.28	104.10	111.50
1	9a	1	PRO	CB-CA-C	5.28	120.14	110.10
1	9f	66	MET	N-CA-CB	5.28	117.67	110.01
1	9f	77	ALA	N-CA-C	5.28	117.45	111.11
1	9k	11	VAL	CA-C-N	5.28	129.06	121.50
1	9k	11	VAL	C-N-CA	5.28	129.06	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9n	157	PRO	N-CA-CB	5.28	108.80	103.25
1	9o	219	GLN	OE1-CD-NE2	5.28	127.88	122.60
1	9q	59	VAL	CB-CA-C	5.28	119.29	111.26
1	9q	119	THR	O-C-N	-5.28	115.08	122.37
1	9x	35	GLU	O-C-N	-5.28	115.17	122.46
1	9D	127	GLY	N-CA-C	-5.28	106.10	112.49
1	9J	146	SER	CA-C-O	-5.28	114.33	119.51
1	Y	208	ALA	CB-CA-C	-5.28	101.67	110.81
1	9S	15	ILE	CA-C-O	5.28	127.34	120.95
1	10	214	MET	CA-C-N	5.28	131.64	121.18
1	10	214	MET	C-N-CA	5.28	131.64	121.18
1	ad	182	LYS	CA-C-N	5.28	127.31	120.44
1	ad	182	LYS	C-N-CA	5.28	127.31	120.44
1	an	53	ASN	OD1-CG-ND2	-5.28	117.32	122.60
1	av	220	GLY	CA-C-N	5.28	129.19	122.37
1	av	220	GLY	C-N-CA	5.28	129.19	122.37
1	aw	169	TYR	CB-CA-C	5.28	119.56	110.79
1	aG	204	ALA	N-CA-CB	5.28	118.44	110.30
1	aT	177	ALA	N-CA-C	5.28	122.05	110.80
1	b5	173	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	17	40	PHE	CA-C-N	5.28	127.36	120.28
1	17	40	PHE	C-N-CA	5.28	127.36	120.28
1	bj	49	PRO	N-CA-C	5.28	120.78	113.65
1	bj	110	THR	CA-C-N	5.28	128.74	120.82
1	bj	110	THR	C-N-CA	5.28	128.74	120.82
1	bj	142	VAL	CA-CB-CG1	5.28	119.38	110.40
1	bv	135	ILE	CB-CA-C	-5.28	105.01	112.14
1	bA	19	THR	O-C-N	-5.28	116.09	122.48
1	bE	213	GLU	CA-C-N	5.28	127.36	120.28
1	bE	213	GLU	C-N-CA	5.28	127.36	120.28
1	bG	72	THR	N-CA-C	5.28	116.72	111.07
1	1c	210	THR	O-C-N	-5.28	117.71	123.26
1	cw	219	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	cE	6	LEU	CA-C-O	-5.28	115.08	120.89
1	cE	26	VAL	N-CA-C	5.28	116.01	110.62
1	1g	41	SER	O-C-N	5.28	127.51	122.07
1	cX	18	ARG	CA-C-N	5.28	127.89	120.28
1	cX	18	ARG	C-N-CA	5.28	127.89	120.28
1	d8	214	MET	O-C-N	-5.28	116.63	122.07
1	da	10	MET	N-CA-C	5.28	118.68	111.39
1	dc	191	VAL	O-C-N	-5.28	116.73	121.91
1	dd	120	HIS	CG-CD2-NE2	5.28	112.48	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	de	61	GLY	CA-C-N	5.28	129.86	122.36
1	de	61	GLY	C-N-CA	5.28	129.86	122.36
1	df	29	GLU	N-CA-C	5.28	117.12	111.36
1	dl	195	ASN	CA-CB-CG	5.28	117.88	112.60
1	dn	181	VAL	CA-C-N	5.28	127.36	120.28
1	dn	181	VAL	C-N-CA	5.28	127.36	120.28
1	do	29	GLU	O-C-N	-5.28	116.13	122.15
1	do	184	TRP	CB-CG-CD2	5.28	134.20	126.80
1	ds	42	ALA	O-C-N	-5.28	115.77	122.27
1	dw	72	THR	CA-CB-OG1	-5.28	101.67	109.60
1	dE	150	ILE	N-CA-CB	5.28	117.73	110.54
1	dO	183	ASN	CA-CB-CG	-5.28	107.32	112.60
1	e5	50	GLN	CA-C-N	5.28	127.36	120.28
1	e5	50	GLN	C-N-CA	5.28	127.36	120.28
1	e5	156	GLY	CA-C-N	5.28	126.44	119.84
1	e5	156	GLY	C-N-CA	5.28	126.44	119.84
1	ed	64	ALA	N-CA-C	5.28	117.12	111.36
1	ei	78	ALA	CA-C-N	5.28	127.36	120.28
1	ei	78	ALA	C-N-CA	5.28	127.36	120.28
1	el	31	ALA	O-C-N	-5.28	115.56	122.59
1	en	55	MET	N-CA-CB	-5.28	102.09	110.28
1	eo	90	PRO	CA-C-O	-5.28	115.51	121.43
1	ep	84	HIS	O-C-N	-5.28	115.23	120.83
1	eq	37	ILE	CA-C-N	5.28	126.44	119.84
1	eq	37	ILE	C-N-CA	5.28	126.44	119.84
1	es	226	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	eD	39	MET	CG-SD-CE	-5.28	89.28	100.90
1	eN	171	THR	OG1-CB-CG2	-5.28	98.73	109.30
1	eS	97	ARG	O-C-N	-5.28	116.99	122.96
1	eZ	159	GLU	CA-C-N	5.28	126.44	119.84
1	eZ	159	GLU	C-N-CA	5.28	126.44	119.84
1	f9	207	PRO	O-C-N	-5.28	116.28	122.99
1	fe	56	LEU	O-C-N	-5.28	115.35	122.43
1	fq	141	ILE	CA-C-N	5.28	127.70	120.46
1	fq	141	ILE	C-N-CA	5.28	127.70	120.46
1	fz	74	ASN	OD1-CG-ND2	-5.28	117.32	122.60
1	fM	43	LEU	N-CA-C	-5.28	106.42	112.92
1	fX	57	ASN	N-CA-CB	5.28	117.67	110.01
1	g2	198	CYS	CA-C-N	5.28	128.09	120.38
1	g2	198	CYS	C-N-CA	5.28	128.09	120.38
1	g3	29	GLU	CA-C-N	-5.28	114.30	122.49
1	g3	29	GLU	C-N-CA	-5.28	114.30	122.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g3	180	GLU	N-CA-C	5.28	117.04	111.28
1	b	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	2	62	HIS	N-CA-C	5.28	117.62	111.02
1	v	153	ILE	N-CA-C	5.28	118.46	111.17
1	A	146	SER	N-CA-C	5.28	117.09	109.48
1	C	189	LEU	CA-C-O	-5.28	115.27	120.82
1	T	179	GLN	N-CA-C	5.28	116.72	111.07
1	g9	92	GLU	CA-C-N	5.28	125.58	119.93
1	g9	92	GLU	C-N-CA	5.28	125.58	119.93
1	gh	72	THR	O-C-N	-5.28	116.63	122.07
1	gm	2	ILE	CB-CA-C	-5.28	103.66	110.84
1	gv	53	ASN	OD1-CG-ND2	-5.28	117.32	122.60
1	gB	190	LEU	CA-C-N	5.28	127.70	120.46
1	gB	190	LEU	C-N-CA	5.28	127.70	120.46
1	1E	97	ARG	CA-C-O	-5.28	115.80	121.56
1	gC	71	GLU	CA-C-N	5.28	127.31	120.44
1	gC	71	GLU	C-N-CA	5.28	127.31	120.44
1	gD	204	ALA	N-CA-C	5.28	116.84	111.14
1	gL	49	PRO	CA-C-N	5.28	129.59	121.19
1	gL	49	PRO	C-N-CA	5.28	129.59	121.19
1	gW	89	GLY	CA-C-N	5.28	126.44	119.84
1	gW	89	GLY	C-N-CA	5.28	126.44	119.84
1	gX	33	SER	CA-C-O	-5.28	114.52	119.91
1	h6	87	HIS	CA-CB-CG	-5.28	108.52	113.80
1	h6	138	LEU	CA-C-N	5.28	127.31	120.44
1	h6	138	LEU	C-N-CA	5.28	127.31	120.44
1	hh	22	ALA	CA-C-N	5.28	127.31	120.44
1	hh	22	ALA	C-N-CA	5.28	127.31	120.44
1	hw	102	SER	O-C-N	-5.28	115.50	122.42
1	hy	191	VAL	N-CA-C	5.28	116.01	110.62
1	1L	108	THR	CA-C-O	5.28	125.82	119.59
1	ib	121	ASN	CB-CG-ND2	5.28	124.32	116.40
1	ij	33	SER	CA-C-O	-5.28	115.64	120.50
1	il	211	LEU	CA-C-N	5.28	127.36	120.28
1	il	211	LEU	C-N-CA	5.28	127.36	120.28
1	in	214	MET	CA-C-N	5.28	127.79	120.29
1	in	214	MET	C-N-CA	5.28	127.79	120.29
1	iq	31	ALA	N-CA-C	5.28	122.05	110.80
1	iL	166	ASP	CA-C-O	5.28	126.07	120.10
1	iW	1	PRO	CA-N-CD	-5.28	104.61	112.00
1	j0	124	ILE	CA-C-N	-5.28	113.24	119.84
1	j0	124	ILE	C-N-CA	-5.28	113.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jl	206	GLY	N-CA-C	5.28	123.12	112.34
1	js	68	MET	O-C-N	-5.28	116.52	122.12
1	k1	185	MET	CG-SD-CE	-5.28	89.28	100.90
1	kB	138	LEU	CA-C-N	5.28	127.31	120.44
1	kB	138	LEU	C-N-CA	5.28	127.31	120.44
1	l7	110	THR	CB-CA-C	-5.28	101.09	109.80
1	l7	141	ILE	O-C-N	5.28	127.09	121.91
1	l7	211	LEU	N-CA-C	5.28	117.45	111.11
1	lb	30	LYS	CA-C-O	5.28	124.52	119.08
1	lh	145	TYR	N-CA-C	-5.28	106.07	112.88
1	lj	121	ASN	CA-C-O	-5.28	115.47	119.59
1	lj	173	ARG	N-CA-C	5.28	118.82	112.38
1	lu	111	LEU	N-CA-C	-5.28	105.52	111.28
1	lF	179	GLN	N-CA-C	5.28	118.51	111.75
1	lH	106	GLY	CA-C-N	5.28	127.31	120.44
1	lH	106	GLY	C-N-CA	5.28	127.31	120.44
1	lJ	217	ALA	O-C-N	-5.28	115.98	122.11
1	lK	51	ASP	CA-C-N	5.28	127.62	120.44
1	lK	51	ASP	C-N-CA	5.28	127.62	120.44
1	2z	135	ILE	O-C-N	-5.28	116.75	121.87
1	2G	12	HIS	CB-CG-CD2	-5.28	124.33	131.20
1	2O	203	LYS	N-CA-C	5.28	117.12	111.36
1	2T	75	GLU	N-CA-CB	5.28	117.89	110.12
1	2W	180	GLU	N-CA-C	5.28	117.12	111.36
1	2X	32	PHE	CA-CB-CG	-5.28	108.52	113.80
1	2Y	172	LEU	CA-C-N	5.28	127.36	120.28
1	2Y	172	LEU	C-N-CA	5.28	127.36	120.28
1	3i	111	LEU	CA-C-O	5.28	126.33	120.63
1	4k	162	ARG	N-CA-CB	-5.28	102.14	110.06
1	4o	135	ILE	CB-CG1-CD1	-5.28	102.71	113.80
1	4q	89	GLY	O-C-N	-5.28	116.49	121.77
1	4D	152	ASP	CA-C-N	-5.28	115.77	122.43
1	4D	152	ASP	C-N-CA	-5.28	115.77	122.43
1	4U	184	TRP	N-CA-C	5.28	117.04	111.28
1	54	112	GLN	CA-C-N	5.28	127.36	120.28
1	54	112	GLN	C-N-CA	5.28	127.36	120.28
1	5f	190	LEU	CA-C-N	5.28	127.98	120.53
1	5f	190	LEU	C-N-CA	5.28	127.98	120.53
1	65	187	GLU	CA-C-O	5.28	126.02	119.79
1	6c	68	MET	CA-C-N	5.28	127.31	120.44
1	6c	68	MET	C-N-CA	5.28	127.31	120.44
1	6j	168	PHE	CA-C-N	5.28	127.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6j	168	PHE	C-N-CA	5.28	127.36	120.28
1	6s	215	MET	N-CA-C	5.28	117.04	111.28
1	6t	185	MET	N-CA-CB	5.28	117.88	110.12
1	6w	103	ASP	N-CA-C	-5.28	105.11	112.45
1	6B	132	ARG	O-C-N	-5.28	116.52	122.12
1	6F	222	GLY	N-CA-C	5.28	120.75	113.99
1	6I	177	ALA	CA-C-N	5.28	128.21	120.71
1	6I	177	ALA	C-N-CA	5.28	128.21	120.71
1	6J	70	LYS	O-C-N	-5.28	116.52	122.12
1	6O	212	GLU	CB-CA-C	5.28	119.66	110.68
1	7m	192	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	7v	176	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	7N	124	ILE	N-CA-C	-5.28	101.95	107.60
1	7O	143	ARG	CG-CD-NE	-5.28	100.38	112.00
1	8e	100	ARG	CA-C-N	5.28	125.84	119.98
1	8e	100	ARG	C-N-CA	5.28	125.84	119.98
1	8p	204	ALA	O-C-N	-5.28	116.13	122.15
1	8t	20	LEU	O-C-N	-5.28	116.39	122.09
1	8E	185	MET	N-CA-CB	-5.28	102.35	110.01
1	8M	31	ALA	O-C-N	-5.28	115.56	122.59
1	8P	189	LEU	N-CA-CB	-5.28	102.36	110.12
1	9h	64	ALA	N-CA-CB	5.28	117.67	110.01
1	9h	65	ALA	CA-C-N	5.28	127.31	120.44
1	9h	65	ALA	C-N-CA	5.28	127.31	120.44
1	9B	221	VAL	CA-C-N	5.28	130.53	120.07
1	9B	221	VAL	C-N-CA	5.28	130.53	120.07
1	ab	124	ILE	CA-C-O	-5.28	116.03	119.15
1	aj	23	TRP	N-CA-C	5.28	116.73	110.97
1	aq	4	GLN	CA-C-N	5.28	128.73	120.75
1	aq	4	GLN	C-N-CA	5.28	128.73	120.75
1	av	92	GLU	O-C-N	-5.28	115.51	121.43
1	av	224	PRO	CB-CA-C	5.28	118.27	111.46
1	13	9	GLN	CB-CG-CD	-5.28	103.62	112.60
1	aN	26	VAL	N-CA-C	5.28	115.91	110.36
1	aS	66	MET	N-CA-C	-5.28	106.34	112.89
1	aV	9	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	aW	55	MET	N-CA-C	5.28	117.04	111.28
1	bb	91	ILE	CA-C-O	5.28	126.18	120.53
1	bl	131	LYS	CA-C-N	5.28	127.67	120.54
1	bl	131	LYS	C-N-CA	5.28	127.67	120.54
1	bJ	192	GLN	N-CA-C	5.28	117.04	111.28
1	bS	3	VAL	CB-CA-C	-5.28	105.21	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bT	95	GLN	CG-CD-NE2	-5.28	108.48	116.40
1	c8	55	MET	N-CA-C	5.28	117.12	111.36
1	ca	214	MET	CA-C-O	5.28	126.02	120.42
1	ch	17	PRO	N-CA-CB	5.28	108.80	103.25
1	cn	211	LEU	O-C-N	-5.28	116.63	122.07
1	cu	97	ARG	CA-C-O	-5.28	115.97	121.99
1	cw	115	ILE	N-CA-C	5.28	116.01	110.62
1	cZ	20	LEU	O-C-N	-5.28	116.52	122.12
1	d1	100	ARG	CA-C-N	5.28	125.84	119.98
1	d1	100	ARG	C-N-CA	5.28	125.84	119.98
1	d9	207	PRO	CA-C-N	5.28	131.26	122.54
1	d9	207	PRO	C-N-CA	5.28	131.26	122.54
1	1j	43	LEU	N-CA-C	-5.28	106.34	112.89
1	dg	164	TYR	O-C-N	5.28	127.51	122.07
1	dn	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	dp	5	ASN	N-CA-CB	-5.28	102.56	110.17
1	dL	11	VAL	N-CA-CB	-5.28	103.27	110.56
1	dP	47	ALA	N-CA-C	5.28	117.97	110.10
1	dQ	153	ILE	N-CA-CB	5.28	117.21	110.13
1	e1	42	ALA	CA-C-N	5.28	131.64	121.18
1	e1	42	ALA	C-N-CA	5.28	131.64	121.18
1	e3	194	ALA	N-CA-CB	-5.28	103.14	110.38
1	eT	184	TRP	CA-CB-CG	5.28	123.64	113.60
1	eU	226	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	fm	12	HIS	CB-CG-ND1	5.28	130.62	122.70
1	fo	156	GLY	O-C-N	-5.28	116.49	121.77
1	fC	197	ASP	CA-C-N	5.28	127.79	120.29
1	fC	197	ASP	C-N-CA	5.28	127.79	120.29
1	fU	205	LEU	N-CA-C	-5.28	105.42	111.07
1	fW	133	TRP	CA-C-N	5.28	127.22	120.56
1	fW	133	TRP	C-N-CA	5.28	127.22	120.56
1	g0	12	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	a	162	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	k	131	LYS	CA-C-N	5.28	127.36	120.28
1	k	131	LYS	C-N-CA	5.28	127.36	120.28
1	k	146	SER	N-CA-C	5.28	116.54	109.83
1	v	7	GLN	N-CA-C	-5.28	106.68	113.23
1	K	146	SER	O-C-N	-5.28	115.25	121.32
1	gb	210	THR	N-CA-CB	5.28	117.81	110.26
1	1C	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	gq	80	TRP	CB-CG-CD2	-5.28	119.41	126.80
1	gA	21	ASN	O-C-N	-5.28	116.52	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gJ	162	ARG	CD-NE-CZ	5.28	131.79	124.40
1	gP	67	GLN	O-C-N	-5.28	116.52	122.12
1	gQ	141	ILE	CB-CA-C	-5.28	105.10	112.02
1	gT	105	ALA	N-CA-C	-5.28	106.68	113.02
1	1H	39	MET	N-CA-C	5.28	117.72	111.33
1	hn	140	LYS	N-CA-CB	5.28	117.81	109.94
1	ht	216	THR	N-CA-C	5.28	117.12	111.36
1	hy	26	VAL	CA-CB-CG1	5.28	119.38	110.40
1	hO	44	SER	N-CA-C	5.28	122.05	110.80
1	hZ	24	VAL	O-C-N	-5.28	116.39	121.83
1	i1	25	LYS	N-CA-C	5.28	117.03	111.28
1	ig	171	THR	N-CA-C	5.28	116.72	111.07
1	iz	28	GLU	CB-CG-CD	5.28	121.58	112.60
1	iH	217	ALA	CA-C-N	5.28	130.34	122.74
1	iH	217	ALA	C-N-CA	5.28	130.34	122.74
1	iS	216	THR	N-CA-C	-5.28	105.96	112.72
1	iU	57	ASN	CA-C-N	5.28	127.36	120.28
1	iU	57	ASN	C-N-CA	5.28	127.36	120.28
1	j0	176	GLN	N-CA-CB	-5.28	102.27	110.98
1	j4	5	ASN	OD1-CG-ND2	5.28	127.88	122.60
1	j5	206	GLY	CA-C-O	-5.28	113.97	121.52
1	ja	90	PRO	O-C-N	-5.28	116.82	123.21
1	1U	79	GLU	CA-C-N	5.28	127.36	120.28
1	1U	79	GLU	C-N-CA	5.28	127.36	120.28
1	je	84	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	jq	153	ILE	CA-CB-CG1	5.28	119.38	110.40
1	jz	203	LYS	CA-C-N	5.28	127.31	120.44
1	jz	203	LYS	C-N-CA	5.28	127.31	120.44
1	jK	12	HIS	CA-CB-CG	-5.28	108.52	113.80
1	1Y	39	MET	CG-SD-CE	-5.28	89.28	100.90
1	1Y	194	ALA	CA-C-N	5.28	127.73	120.39
1	1Y	194	ALA	C-N-CA	5.28	127.73	120.39
1	jQ	190	LEU	CA-C-N	5.28	128.96	120.30
1	jQ	190	LEU	C-N-CA	5.28	128.96	120.30
1	1Z	2	ILE	CA-C-O	-5.28	114.83	120.85
1	ko	108	THR	N-CA-CB	5.28	118.29	110.53
1	kD	67	GLN	CA-C-N	5.28	127.36	120.28
1	kD	67	GLN	C-N-CA	5.28	127.36	120.28
1	kD	229	ARG	CA-C-N	5.28	127.69	120.35
1	kD	229	ARG	C-N-CA	5.28	127.69	120.35
1	kN	148	THR	O-C-N	-5.28	117.46	123.48
1	kR	66	MET	N-CA-CB	5.28	117.88	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kT	173	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	kV	193	ASN	N-CA-CB	-5.28	102.41	110.33
1	kZ	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	l1	168	PHE	CA-CB-CG	5.28	119.08	113.80
1	le	67	GLN	N-CA-C	5.28	117.12	111.36
1	lh	169	TYR	O-C-N	-5.28	116.52	122.12
1	lj	149	SER	CA-C-N	5.28	129.40	120.64
1	lj	149	SER	C-N-CA	5.28	129.40	120.64
1	lx	86	VAL	N-CA-C	5.28	116.50	109.37
1	29	35	GLU	N-CA-C	-5.28	106.61	113.16
1	lD	59	VAL	CA-CB-CG1	5.28	119.38	110.40
1	lM	134	ILE	N-CA-CB	5.28	116.73	110.55
1	lQ	1	PRO	CB-CA-C	5.28	120.14	110.10
1	2c	98	GLU	CA-C-O	-5.28	114.55	120.25
1	2h	66	MET	N-CA-CB	5.28	117.88	110.12
1	2r	114	GLN	CG-CD-NE2	5.28	124.32	116.40
1	2G	47	ALA	N-CA-C	5.28	117.97	110.10
1	2G	104	ILE	CA-C-O	-5.28	115.46	120.95
1	2W	174	ALA	N-CA-C	-5.28	106.42	112.92
1	2Z	207	PRO	N-CA-C	5.28	123.35	112.47
1	3l	12	HIS	CG-CD2-NE2	5.28	112.48	107.20
1	3u	66	MET	CA-C-O	5.28	126.15	120.55
1	3x	120	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	3P	38	PRO	O-C-N	-5.28	115.51	122.64
1	43	179	GLN	CA-C-N	5.28	127.36	120.28
1	43	179	GLN	C-N-CA	5.28	127.36	120.28
1	48	107	THR	N-CA-CB	5.28	117.88	110.12
1	4j	58	THR	O-C-N	-5.28	114.91	122.41
1	4m	11	VAL	CG1-CB-CG2	5.28	122.42	110.80
1	4p	63	GLN	O-C-N	-5.28	115.17	122.46
1	4A	142	VAL	N-CA-CB	5.28	117.72	110.54
1	4J	143	ARG	N-CA-CB	5.28	117.88	110.12
1	4K	195	ASN	N-CA-CB	5.28	117.69	110.03
1	4T	5	ASN	N-CA-C	-5.28	107.85	114.56
1	4X	112	GLN	OE1-CD-NE2	5.28	127.88	122.60
1	52	162	ARG	N-CA-C	5.28	117.78	111.71
1	5n	67	GLN	CA-C-N	5.28	127.79	120.29
1	5n	67	GLN	C-N-CA	5.28	127.79	120.29
1	5o	42	ALA	CA-C-O	5.28	126.02	120.42
1	5q	126	VAL	N-CA-C	5.28	116.01	110.62
1	5s	44	SER	O-C-N	-5.28	115.36	122.22
1	5A	120	HIS	CB-CG-CD2	-5.28	124.34	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5B	42	ALA	CA-C-N	5.28	128.34	120.31
1	5B	42	ALA	C-N-CA	5.28	128.34	120.31
1	60	97	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	62	73	ILE	N-CA-CB	5.28	116.73	110.55
1	67	23	TRP	CA-C-N	5.28	127.41	120.60
1	67	23	TRP	C-N-CA	5.28	127.41	120.60
1	67	173	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	6c	79	GLU	N-CA-C	5.28	117.04	111.28
1	6e	73	ILE	CA-CB-CG1	5.28	119.38	110.40
1	6l	150	ILE	N-CA-C	5.28	116.05	110.72
1	6n	120	HIS	N-CA-CB	5.28	117.32	109.19
1	6x	97	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	6M	212	GLU	O-C-N	-5.28	116.63	122.07
1	6Q	160	PRO	N-CA-C	5.28	119.49	111.15
1	6S	35	GLU	CA-C-N	5.28	127.21	120.56
1	6S	35	GLU	C-N-CA	5.28	127.21	120.56
1	6Z	54	THR	O-C-N	-5.28	116.52	122.12
1	77	206	GLY	CA-C-N	-5.28	114.23	119.56
1	77	206	GLY	C-N-CA	-5.28	114.23	119.56
1	7g	155	GLN	N-CA-CB	-5.28	102.09	110.06
1	7h	157	PRO	CA-C-O	-5.28	112.25	118.90
1	7x	202	LEU	CA-C-N	5.28	127.36	120.28
1	7x	202	LEU	C-N-CA	5.28	127.36	120.28
1	7O	81	ASP	CB-CG-OD1	5.28	130.54	118.40
1	7S	120	HIS	CA-CB-CG	5.28	119.08	113.80
1	7W	23	TRP	CA-C-O	-5.28	114.95	120.55
1	8m	45	GLU	O-C-N	-5.28	116.52	123.02
1	8o	186	THR	N-CA-C	5.28	116.84	111.14
1	8p	100	ARG	O-C-N	-5.28	116.71	122.84
1	8u	2	ILE	N-CA-C	5.28	115.97	107.73
1	8v	135	ILE	CB-CA-C	5.28	119.27	112.14
1	8E	167	ARG	NE-CZ-NH2	5.28	123.95	119.20
1	8J	95	GLN	CA-C-N	5.28	128.21	120.71
1	8J	95	GLN	C-N-CA	5.28	128.21	120.71
1	8N	73	ILE	N-CA-CB	5.28	117.72	110.54
1	8V	14	ALA	O-C-N	-5.28	116.83	122.85
1	90	134	ILE	CA-C-N	5.28	127.69	120.46
1	90	134	ILE	C-N-CA	5.28	127.69	120.46
1	92	3	VAL	CA-C-N	5.28	128.58	120.82
1	92	3	VAL	C-N-CA	5.28	128.58	120.82
1	93	180	GLU	CA-C-N	5.28	127.32	120.56
1	93	180	GLU	C-N-CA	5.28	127.32	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	112	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	9z	92	GLU	CA-C-N	5.28	125.22	119.78
1	9z	92	GLU	C-N-CA	5.28	125.22	119.78
1	9A	52	LEU	O-C-N	-5.28	116.63	122.07
1	9A	69	LEU	CA-C-O	5.28	126.36	120.82
1	9H	81	ASP	CA-C-N	5.28	127.30	120.44
1	9H	81	ASP	C-N-CA	5.28	127.30	120.44
1	9N	5	ASN	CA-CB-CG	5.28	117.88	112.60
1	9T	39	MET	CG-SD-CE	-5.28	89.28	100.90
1	9T	116	GLY	CA-C-N	5.28	127.31	120.44
1	9T	116	GLY	C-N-CA	5.28	127.31	120.44
1	a6	100	ARG	N-CA-C	-5.28	102.17	110.36
1	aj	173	ARG	CA-C-N	5.28	127.89	120.28
1	aj	173	ARG	C-N-CA	5.28	127.89	120.28
1	as	110	THR	N-CA-CB	5.28	118.91	110.46
1	as	178	SER	O-C-N	-5.28	116.57	122.75
1	aH	185	MET	CA-C-O	-5.28	115.25	120.90
1	aH	206	GLY	O-C-N	-5.28	116.49	121.77
1	aI	154	ARG	CA-C-N	5.28	128.34	120.95
1	aI	154	ARG	C-N-CA	5.28	128.34	120.95
1	aJ	198	CYS	CA-C-N	5.28	128.34	120.31
1	aJ	198	CYS	C-N-CA	5.28	128.34	120.31
1	aQ	123	PRO	CA-C-N	5.28	128.52	121.23
1	aQ	123	PRO	C-N-CA	5.28	128.52	121.23
1	aT	131	LYS	CA-C-N	5.28	127.36	120.28
1	aT	131	LYS	C-N-CA	5.28	127.36	120.28
1	aX	77	ALA	N-CA-C	5.28	117.12	111.36
1	aX	220	GLY	O-C-N	5.28	127.93	122.54
1	aY	195	ASN	CB-CA-C	5.28	117.77	109.27
1	bb	225	GLY	CA-C-N	5.28	130.12	122.36
1	bb	225	GLY	C-N-CA	5.28	130.12	122.36
1	be	176	GLN	CA-C-N	5.28	128.72	120.75
1	be	176	GLN	C-N-CA	5.28	128.72	120.75
1	bk	30	LYS	CA-CB-CG	5.28	124.66	114.10
1	bp	12	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	bx	201	ILE	CA-C-O	5.28	126.44	120.95
1	bB	108	THR	N-CA-C	5.28	119.69	112.88
1	bC	226	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	bF	82	ARG	CA-C-N	5.28	130.61	122.42
1	bF	82	ARG	C-N-CA	5.28	130.61	122.42
1	bI	166	ASP	CA-C-O	5.28	126.02	120.42
1	bQ	20	LEU	CA-C-N	5.28	127.36	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bQ	20	LEU	C-N-CA	5.28	127.36	120.28
1	c6	217	ALA	N-CA-C	5.28	118.30	110.48
1	c7	223	GLY	CA-C-N	5.28	126.44	119.84
1	c7	223	GLY	C-N-CA	5.28	126.44	119.84
1	c9	95	GLN	CB-CG-CD	5.28	121.58	112.60
1	cl	29	GLU	N-CA-CB	-5.28	102.34	110.16
1	cn	214	MET	N-CA-CB	5.28	117.73	110.07
1	cr	121	ASN	N-CA-CB	5.28	119.41	110.43
1	cE	230	VAL	O-C-N	-5.28	117.45	123.10
1	cG	87	HIS	CG-CD2-NE2	5.28	112.48	107.20
1	cO	183	ASN	N-CA-CB	5.28	117.67	110.01
1	cQ	25	LYS	N-CA-CB	5.28	117.73	110.07
1	cZ	212	GLU	N-CA-C	5.28	117.72	111.33
1	d0	158	LYS	CA-C-O	5.28	125.00	119.03
1	d2	185	MET	CB-CA-C	5.28	119.17	110.88
1	d8	116	GLY	CA-C-N	5.28	127.36	120.28
1	d8	116	GLY	C-N-CA	5.28	127.36	120.28
1	dd	182	LYS	N-CA-CB	5.28	118.35	110.22
1	dn	226	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	1k	184	TRP	N-CA-C	5.28	117.45	111.11
1	du	86	VAL	CA-C-N	5.28	129.23	120.94
1	du	86	VAL	C-N-CA	5.28	129.23	120.94
1	dB	229	ARG	CB-CG-CD	5.28	123.44	111.30
1	dI	163	ASP	CA-C-O	-5.28	114.95	120.55
1	dL	192	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	dP	109	SER	CA-C-N	5.28	130.87	122.10
1	dP	109	SER	C-N-CA	5.28	130.87	122.10
1	dT	72	THR	N-CA-C	5.28	117.45	111.11
1	dY	121	ASN	N-CA-C	5.28	118.78	108.85
1	1o	142	VAL	N-CA-C	5.28	116.01	110.62
1	ec	139	ASN	N-CA-C	5.28	117.72	111.33
1	ee	180	GLU	N-CA-C	5.28	117.04	111.28
1	1q	112	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	eu	58	THR	CB-CA-C	5.28	119.17	110.88
1	eE	205	LEU	O-C-N	-5.28	116.63	122.07
1	f7	166	ASP	N-CA-CB	-5.28	102.35	110.01
1	fj	143	ARG	N-CA-C	5.28	117.04	111.28
1	fQ	62	HIS	CA-C-N	5.28	127.89	120.28
1	fQ	62	HIS	C-N-CA	5.28	127.89	120.28
1	fX	94	GLY	CA-C-O	5.28	124.60	119.27
1	g0	16	SER	O-C-N	-5.28	116.27	121.18
1	f	135	ILE	N-CA-CB	5.28	116.37	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	49	PRO	CB-CA-C	5.28	120.27	111.56
1	p	201	ILE	O-C-N	-5.28	116.73	121.91
1	2	226	HIS	CA-C-O	5.28	127.08	121.11
1	v	28	GLU	CA-C-O	5.28	126.15	120.55
1	y	15	ILE	N-CA-C	5.28	120.32	109.34
1	B	166	ASP	N-CA-C	5.28	116.72	111.07
1	D	86	VAL	O-C-N	-5.28	116.92	122.83
1	J	25	LYS	N-CA-C	5.28	116.72	111.07
1	Q	25	LYS	N-CA-C	5.28	116.84	111.14
1	gd	50	GLN	CA-CB-CG	5.28	124.66	114.10
1	gk	130	TYR	O-C-N	-5.28	116.13	122.15
1	gv	15	ILE	O-C-N	-5.28	116.93	122.95
1	gM	84	HIS	CB-CA-C	-5.28	104.94	110.17
1	gP	139	ASN	N-CA-C	5.28	117.03	111.28
1	1G	42	ALA	N-CA-C	5.28	117.11	111.36
1	h4	165	VAL	CA-C-O	5.28	126.22	120.57
1	hv	21	ASN	N-CA-C	5.28	117.03	111.28
1	hE	135	ILE	CA-C-N	5.28	127.35	120.28
1	hE	135	ILE	C-N-CA	5.28	127.35	120.28
1	hZ	92	GLU	N-CA-C	5.28	121.48	109.81
1	il	42	ALA	N-CA-CB	-5.28	102.36	110.01
1	1R	41	SER	O-C-N	-5.28	116.53	122.12
1	iZ	80	TRP	N-CA-C	5.28	116.72	111.07
1	j4	200	THR	CA-C-O	-5.28	114.83	120.42
1	j9	188	THR	O-C-N	5.28	129.75	122.46
1	jJ	63	GLN	O-C-N	-5.28	116.13	122.15
1	jS	54	THR	CA-CB-OG1	5.28	117.52	109.60
1	k1	175	GLU	N-CA-C	5.28	122.04	110.80
1	kE	74	ASN	N-CA-C	5.28	117.03	111.28
1	kK	54	THR	O-C-N	-5.28	116.52	122.12
1	26	100	ARG	O-C-N	-5.28	115.65	122.20
1	lw	84	HIS	CB-CG-CD2	-5.28	124.34	131.20
1	lA	92	GLU	CB-CA-C	5.28	117.60	109.15
1	lB	203	LYS	N-CA-C	5.28	117.03	111.28
1	lN	150	ILE	CA-CB-CG2	5.28	119.47	110.50
1	2e	230	VAL	CB-CA-C	5.28	119.95	111.29
1	2k	164	TYR	N-CA-CB	-5.28	102.36	110.01
1	2p	212	GLU	CA-C-N	5.28	127.35	120.28
1	2p	212	GLU	C-N-CA	5.28	127.35	120.28
1	2I	119	THR	N-CA-CB	5.28	118.27	110.56
1	2L	148	THR	CA-CB-CG2	5.28	119.47	110.50
1	2V	76	GLU	CB-CG-CD	-5.28	103.63	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	34	117	TRP	CE2-CD2-CE3	-5.28	113.52	118.80
1	34	221	VAL	CB-CA-C	-5.28	103.56	112.16
1	3b	228	ALA	N-CA-C	5.28	117.89	110.23
1	3Y	163	ASP	N-CA-C	-5.28	105.98	112.90
1	40	136	LEU	N-CA-C	5.28	117.44	111.11
1	4h	202	LEU	N-CA-CB	5.28	117.67	110.01
1	4o	226	HIS	CA-C-O	5.28	126.18	119.95
1	4p	106	GLY	CA-C-N	5.28	127.81	120.63
1	4p	106	GLY	C-N-CA	5.28	127.81	120.63
1	4r	167	ARG	O-C-N	-5.28	116.52	122.12
1	4v	131	LYS	CA-C-N	5.28	127.30	120.44
1	4v	131	LYS	C-N-CA	5.28	127.30	120.44
1	4T	171	THR	N-CA-C	5.28	117.11	111.36
1	52	126	VAL	N-CA-CB	5.28	117.72	110.54
1	5b	193	ASN	N-CA-C	-5.28	106.70	112.72
1	6k	143	ARG	O-C-N	5.28	127.51	122.07
1	6O	107	THR	CA-C-N	5.28	130.84	122.60
1	6O	107	THR	C-N-CA	5.28	130.84	122.60
1	6Q	2	ILE	CA-CB-CG2	5.28	119.47	110.50
1	73	146	SER	O-C-N	-5.28	115.52	121.43
1	7C	210	THR	O-C-N	-5.28	116.53	122.97
1	7F	110	THR	CA-C-N	5.28	127.35	120.28
1	7F	110	THR	C-N-CA	5.28	127.35	120.28
1	7G	67	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	7Z	224	PRO	N-CA-C	5.28	119.16	111.03
1	85	150	ILE	CA-C-N	5.28	127.62	120.44
1	85	150	ILE	C-N-CA	5.28	127.62	120.44
1	8F	184	TRP	CB-CA-C	5.28	119.17	110.88
1	8G	87	HIS	CB-CG-ND1	-5.28	114.78	122.70
1	8I	78	ALA	N-CA-C	5.28	116.72	111.07
1	96	16	SER	CA-C-O	-5.28	114.55	120.25
1	9g	6	LEU	CA-C-O	5.28	125.87	119.11
1	9x	76	GLU	CA-C-N	5.28	127.30	120.44
1	9x	76	GLU	C-N-CA	5.28	127.30	120.44
1	9H	211	LEU	CB-CA-C	5.28	121.02	109.99
1	a2	78	ALA	CA-C-O	5.28	126.04	119.97
1	aa	91	ILE	CA-C-O	5.28	126.67	120.71
1	an	98	GLU	O-C-N	-5.28	115.72	121.53
1	aH	161	PHE	CB-CA-C	5.28	119.55	110.79
1	aX	171	THR	N-CA-C	5.28	118.18	111.69
1	bv	119	THR	CA-CB-OG1	5.28	117.52	109.60
1	bw	94	GLY	CA-C-O	5.28	125.13	119.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bJ	140	LYS	CA-C-O	5.28	126.36	120.82
1	bR	20	LEU	O-C-N	-5.28	116.52	122.12
1	1b	127	GLY	O-C-N	-5.28	116.27	122.34
1	c2	41	SER	N-CA-CB	5.28	117.88	110.12
1	cl	155	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	cn	215	MET	CG-SD-CE	-5.28	89.28	100.90
1	cx	89	GLY	CA-C-N	5.28	126.44	119.84
1	cx	89	GLY	C-N-CA	5.28	126.44	119.84
1	cC	88	ALA	CA-C-O	5.28	128.21	121.82
1	1h	99	PRO	N-CA-CB	5.28	108.79	103.25
1	d5	134	ILE	N-CA-CB	5.28	116.73	110.55
1	d8	210	THR	OG1-CB-CG2	-5.28	98.74	109.30
1	dG	207	PRO	N-CA-CB	5.28	108.22	103.20
1	dP	195	ASN	CB-CA-C	5.28	117.86	109.52
1	e5	78	ALA	CA-C-N	5.28	127.79	120.29
1	e5	78	ALA	C-N-CA	5.28	127.79	120.29
1	ev	212	GLU	CA-C-N	5.28	129.65	120.68
1	ev	212	GLU	C-N-CA	5.28	129.65	120.68
1	eE	159	GLU	O-C-N	-5.28	114.61	121.10
1	eG	7	GLN	O-C-N	-5.28	116.32	122.81
1	fi	53	ASN	CA-CB-CG	-5.28	107.32	112.60
1	fs	197	ASP	CA-CB-CG	5.28	117.88	112.60
1	fz	72	THR	N-CA-C	5.28	116.72	111.07
1	fH	139	ASN	CA-C-O	-5.28	114.95	120.55
1	fK	216	THR	CA-CB-OG1	5.28	117.52	109.60
1	1z	64	ALA	N-CA-C	-5.28	105.42	111.07
1	0	137	GLY	CA-C-N	5.28	127.79	120.29
1	0	137	GLY	C-N-CA	5.28	127.79	120.29
1	1	182	LYS	N-CA-C	5.28	117.78	111.71
1	k	129	ILE	CA-C-N	5.28	127.62	120.44
1	k	129	ILE	C-N-CA	5.28	127.62	120.44
1	z	12	HIS	CG-CD2-NE2	5.28	112.48	107.20
1	z	24	VAL	N-CA-C	5.28	116.00	110.62
1	gb	67	GLN	N-CA-C	5.28	117.03	111.28
1	gc	195	ASN	CA-CB-CG	-5.28	107.32	112.60
1	gd	133	TRP	CB-CG-CD2	-5.28	119.41	126.80
1	ge	107	THR	N-CA-C	5.28	117.94	111.82
1	gm	192	GLN	N-CA-C	5.28	117.03	111.28
1	gC	62	HIS	CA-CB-CG	5.28	119.08	113.80
1	gE	84	HIS	CA-C-N	5.28	126.44	119.84
1	gE	84	HIS	C-N-CA	5.28	126.44	119.84
1	gF	110	THR	O-C-N	-5.28	117.15	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gK	84	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	gS	195	ASN	CB-CG-ND2	-5.28	108.48	116.40
1	gV	75	GLU	CA-C-O	-5.28	115.28	120.82
1	1G	11	VAL	O-C-N	-5.28	117.35	123.00
1	gW	229	ARG	N-CA-C	-5.28	105.69	113.61
1	gZ	5	ASN	CA-CB-CG	5.28	117.88	112.60
1	gZ	14	ALA	N-CA-C	5.28	118.09	110.28
1	h0	79	GLU	CA-C-O	5.28	126.36	120.82
1	h2	74	ASN	CA-CB-CG	-5.28	107.32	112.60
1	h4	53	ASN	OD1-CG-ND2	5.28	127.88	122.60
1	hs	13	GLN	OE1-CD-NE2	5.28	127.88	122.60
1	hv	48	THR	CA-C-N	5.28	125.34	119.32
1	hv	48	THR	C-N-CA	5.28	125.34	119.32
1	1L	143	ARG	N-CA-C	5.28	116.72	111.07
1	hM	143	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	i3	150	ILE	CA-C-N	5.28	129.53	120.72
1	i3	150	ILE	C-N-CA	5.28	129.53	120.72
1	i6	35	GLU	N-CA-C	5.28	119.43	112.89
1	if	143	ARG	CA-C-N	5.28	127.62	120.44
1	if	143	ARG	C-N-CA	5.28	127.62	120.44
1	im	198	CYS	CA-C-N	5.28	127.88	120.28
1	im	198	CYS	C-N-CA	5.28	127.88	120.28
1	iu	180	GLU	N-CA-CB	5.28	118.35	110.22
1	iv	8	GLY	CA-C-N	5.28	128.34	120.95
1	iv	8	GLY	C-N-CA	5.28	128.34	120.95
1	iC	100	ARG	NH1-CZ-NH2	5.28	126.16	119.30
1	iX	86	VAL	CA-CB-CG1	-5.28	101.43	110.40
1	j3	20	LEU	O-C-N	-5.28	116.53	122.12
1	j5	129	ILE	CA-C-N	5.28	127.30	120.44
1	j5	129	ILE	C-N-CA	5.28	127.30	120.44
1	jb	152	ASP	CA-CB-CG	-5.28	107.32	112.60
1	jc	171	THR	CA-C-N	5.28	127.35	120.28
1	jc	171	THR	C-N-CA	5.28	127.35	120.28
1	je	99	PRO	N-CA-CB	5.28	108.00	103.36
1	jp	27	VAL	O-C-N	-5.28	116.75	121.87
1	jC	33	SER	CA-C-N	5.28	124.78	119.19
1	jC	33	SER	C-N-CA	5.28	124.78	119.19
1	jZ	83	LEU	CB-CA-C	5.28	119.17	110.88
1	k9	24	VAL	CA-CB-CG1	5.28	119.37	110.40
1	kf	30	LYS	CA-C-N	5.28	131.62	121.54
1	kf	30	LYS	C-N-CA	5.28	131.62	121.54
1	kf	223	GLY	N-CA-C	5.28	123.11	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kg	16	SER	CA-C-O	-5.28	115.33	119.66
1	ko	80	TRP	CA-C-N	5.28	127.30	120.44
1	ko	80	TRP	C-N-CA	5.28	127.30	120.44
1	kr	5	ASN	N-CA-C	5.28	117.82	109.96
1	ks	214	MET	N-CA-C	5.28	118.88	112.23
1	kt	99	PRO	N-CA-CB	-5.28	98.61	103.31
1	22	13	GLN	CG-CD-NE2	-5.28	108.48	116.40
1	kx	122	PRO	CA-C-N	5.28	127.16	120.51
1	kx	122	PRO	C-N-CA	5.28	127.16	120.51
1	kB	159	GLU	CA-C-O	5.28	123.99	119.66
1	kN	71	GLU	N-CA-C	5.28	117.78	111.71
1	24	120	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	kT	208	ALA	CA-C-N	5.28	129.63	122.19
1	kT	208	ALA	C-N-CA	5.28	129.63	122.19
1	l4	40	PHE	CA-CB-CG	5.28	119.08	113.80
1	le	179	GLN	N-CA-C	5.28	117.72	111.33
1	lg	92	GLU	CA-C-O	-5.28	113.71	120.04
1	lj	181	VAL	N-CA-C	5.28	115.49	110.42
1	ln	63	GLN	CA-C-O	-5.28	113.56	119.79
1	lt	33	SER	N-CA-C	5.28	118.31	110.39
1	lv	25	LYS	O-C-N	-5.28	116.53	122.12
1	lC	121	ASN	N-CA-CB	-5.28	99.74	110.50
1	lF	126	VAL	O-C-N	-5.28	116.54	121.87
1	lL	111	LEU	CB-CA-C	-5.28	102.03	110.79
1	lN	172	LEU	N-CA-C	-5.28	106.07	112.88
1	lO	224	PRO	N-CA-C	5.28	119.60	111.21
1	lP	36	VAL	CA-C-N	5.28	124.55	120.33
1	lP	36	VAL	C-N-CA	5.28	124.55	120.33
1	2i	57	ASN	N-CA-C	5.28	117.94	111.82
1	2j	205	LEU	CA-C-N	5.28	130.16	121.87
1	2j	205	LEU	C-N-CA	5.28	130.16	121.87
1	2z	34	PRO	CA-C-O	-5.28	112.03	118.99
1	2D	18	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	2D	108	THR	CA-CB-OG1	5.28	117.52	109.60
1	2H	226	HIS	CA-C-N	-5.28	113.66	122.21
1	2H	226	HIS	C-N-CA	-5.28	113.66	122.21
1	2M	4	GLN	N-CA-C	5.28	117.23	107.73
1	2P	115	ILE	O-C-N	-5.28	116.74	121.91
1	3s	139	ASN	N-CA-C	5.28	117.94	111.82
1	3t	84	HIS	CB-CA-C	-5.28	102.33	110.62
1	3w	71	GLU	CA-C-N	5.28	127.35	120.28
1	3w	71	GLU	C-N-CA	5.28	127.35	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3D	108	THR	O-C-N	-5.28	116.01	122.34
1	3Q	162	ARG	CA-CB-CG	5.28	124.66	114.10
1	3S	53	ASN	CA-CB-CG	-5.28	107.32	112.60
1	3U	211	LEU	N-CA-C	5.28	117.03	111.28
1	3W	172	LEU	CA-C-N	5.28	127.30	120.44
1	3W	172	LEU	C-N-CA	5.28	127.30	120.44
1	40	12	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	41	136	LEU	CA-C-N	5.28	125.80	120.00
1	41	136	LEU	C-N-CA	5.28	125.80	120.00
1	43	160	PRO	CA-C-O	-5.28	115.75	121.77
1	4b	80	TRP	CA-C-N	5.28	127.78	120.29
1	4b	80	TRP	C-N-CA	5.28	127.78	120.29
1	4e	112	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	4i	160	PRO	N-CA-C	-5.28	108.64	114.92
1	4t	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	4u	97	ARG	CA-C-N	5.28	127.73	120.39
1	4u	97	ARG	C-N-CA	5.28	127.73	120.39
1	4v	148	THR	CA-C-O	-5.28	115.08	120.99
1	4F	64	ALA	N-CA-C	5.28	117.03	111.28
1	4L	23	TRP	N-CA-C	5.28	117.46	111.02
1	4N	154	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	4V	152	ASP	N-CA-C	5.28	119.35	113.02
1	4X	121	ASN	CB-CA-C	-5.28	103.06	110.13
1	5o	111	LEU	N-CA-C	5.28	118.51	111.75
1	5r	150	ILE	CA-CB-CG2	5.28	119.47	110.50
1	5s	82	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	5I	137	GLY	N-CA-C	5.28	118.62	112.50
1	5J	68	MET	O-C-N	-5.28	116.63	122.07
1	5M	210	THR	CA-C-N	5.28	127.67	120.54
1	5M	210	THR	C-N-CA	5.28	127.67	120.54
1	5X	149	SER	N-CA-CB	5.28	118.90	110.46
1	5Y	107	THR	N-CA-C	-5.28	107.50	114.04
1	68	167	ARG	CA-C-N	5.28	127.30	120.44
1	68	167	ARG	C-N-CA	5.28	127.30	120.44
1	6s	118	MET	N-CA-C	-5.28	106.34	112.89
1	6B	226	HIS	N-CA-C	5.28	118.41	111.28
1	6M	152	ASP	CA-C-O	5.28	126.33	119.95
1	6M	205	LEU	N-CA-C	5.28	119.72	113.28
1	6S	131	LYS	N-CA-C	5.28	117.11	111.36
1	71	65	ALA	CA-C-N	5.28	127.35	120.28
1	71	65	ALA	C-N-CA	5.28	127.35	120.28
1	71	167	ARG	NE-CZ-NH1	5.28	126.78	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	124	ILE	CA-C-O	5.28	122.08	119.12
1	7C	79	GLU	CA-C-N	5.28	127.30	120.44
1	7C	79	GLU	C-N-CA	5.28	127.30	120.44
1	7K	36	VAL	CB-CA-C	-5.28	103.56	112.16
1	7S	218	CYS	N-CA-CB	5.28	119.93	111.91
1	8d	81	ASP	CA-C-N	5.28	127.35	120.28
1	8d	81	ASP	C-N-CA	5.28	127.35	120.28
1	8j	87	HIS	CA-CB-CG	5.28	119.08	113.80
1	8K	133	TRP	CA-C-N	5.28	127.21	120.56
1	8K	133	TRP	C-N-CA	5.28	127.21	120.56
1	8O	62	HIS	CA-C-N	5.28	127.66	120.54
1	8O	62	HIS	C-N-CA	5.28	127.66	120.54
1	8X	140	LYS	CA-C-O	-5.28	114.95	120.55
1	95	80	TRP	CA-C-N	5.28	127.35	120.28
1	95	80	TRP	C-N-CA	5.28	127.35	120.28
1	9z	84	HIS	N-CA-CB	-5.28	103.93	110.79
1	a5	128	GLU	N-CA-C	5.28	117.03	111.28
1	aa	210	THR	N-CA-C	5.28	117.53	110.35
1	ab	115	ILE	CB-CA-C	5.28	118.72	111.97
1	ai	12	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	ai	23	TRP	CA-C-N	5.28	127.69	120.46
1	ai	23	TRP	C-N-CA	5.28	127.69	120.46
1	aw	119	THR	N-CA-C	5.28	119.82	113.17
1	aI	62	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	aM	97	ARG	O-C-N	-5.28	116.63	122.86
1	b0	205	LEU	N-CA-C	5.28	117.03	111.28
1	b1	66	MET	N-CA-C	5.28	116.72	111.07
1	b5	78	ALA	N-CA-C	5.28	116.72	111.07
1	b7	10	MET	CA-C-O	5.28	127.14	121.44
1	16	165	VAL	CA-CB-CG2	-5.28	101.43	110.40
1	bf	101	GLY	N-CA-C	5.28	119.27	112.83
1	bA	182	LYS	N-CA-C	5.28	116.72	111.07
1	bJ	147	PRO	CA-C-O	-5.28	115.33	121.34
1	bQ	146	SER	N-CA-C	5.28	117.23	109.42
1	bU	192	GLN	CA-C-O	5.28	125.87	119.38
1	c3	23	TRP	N-CA-C	5.28	116.72	111.07
1	c5	96	MET	N-CA-C	5.28	117.96	110.10
1	cm	145	TYR	N-CA-C	5.28	118.05	111.24
1	co	73	ILE	CB-CA-C	5.28	118.72	111.97
1	cB	48	THR	CA-CB-OG1	5.28	117.52	109.60
1	cJ	19	THR	O-C-N	-5.28	116.64	122.07
1	cJ	114	GLN	CA-C-O	5.28	126.36	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cK	15	ILE	CA-C-O	5.28	127.25	121.13
1	cL	139	ASN	CA-C-N	5.28	127.35	120.28
1	cL	139	ASN	C-N-CA	5.28	127.35	120.28
1	cT	191	VAL	CA-C-N	5.28	127.67	120.54
1	cT	191	VAL	C-N-CA	5.28	127.67	120.54
1	d0	179	GLN	N-CA-CB	-5.28	102.08	109.94
1	db	54	THR	N-CA-C	5.28	117.11	111.36
1	dd	31	ALA	N-CA-C	5.28	122.04	110.80
1	de	102	SER	CA-C-O	5.28	126.14	120.55
1	dj	26	VAL	CA-C-N	5.28	127.69	120.46
1	dj	26	VAL	C-N-CA	5.28	127.69	120.46
1	du	140	LYS	N-CA-C	5.28	120.08	111.37
1	dz	16	SER	N-CA-CB	-5.28	102.06	110.03
1	dM	45	GLU	N-CA-C	5.28	122.04	110.80
1	dQ	66	MET	O-C-N	5.28	127.71	122.12
1	e1	205	LEU	N-CA-CB	5.28	118.27	110.56
1	el	154	ARG	CB-CA-C	-5.28	101.64	110.29
1	eJ	131	LYS	O-C-N	-5.28	116.60	122.09
1	eP	149	SER	CA-C-N	5.28	127.21	120.56
1	eP	149	SER	C-N-CA	5.28	127.21	120.56
1	eQ	82	ARG	CD-NE-CZ	5.28	131.79	124.40
1	eR	211	LEU	CA-C-N	5.28	127.35	120.28
1	eR	211	LEU	C-N-CA	5.28	127.35	120.28
1	eW	164	TYR	CA-CB-CG	5.28	123.40	113.90
1	f1	70	LYS	CA-C-N	5.28	127.30	120.44
1	f1	70	LYS	C-N-CA	5.28	127.30	120.44
1	f3	181	VAL	CB-CA-C	-5.28	105.21	111.97
1	fm	174	ALA	CA-C-N	5.28	128.26	120.82
1	fm	174	ALA	C-N-CA	5.28	128.26	120.82
1	fo	18	ARG	N-CA-CB	-5.28	102.36	110.12
1	fr	79	GLU	CA-C-N	5.28	127.30	120.44
1	fr	79	GLU	C-N-CA	5.28	127.30	120.44
1	fA	200	THR	N-CA-CB	5.28	118.38	109.78
1	fD	67	GLN	OE1-CD-NE2	5.28	127.88	122.60
1	1A	85	PRO	N-CA-C	5.28	119.49	111.15
1	fY	62	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	fY	189	LEU	O-C-N	-5.28	116.60	122.09
1	g1	193	ASN	CB-CG-OD1	5.28	131.35	120.80
1	g7	120	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	a	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	b	45	GLU	CB-CA-C	5.28	117.76	110.16
1	f	21	ASN	N-CA-C	5.28	117.72	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	189	LEU	CA-C-O	5.28	126.02	120.42
1	j	131	LYS	CA-C-N	5.28	127.35	120.28
1	j	131	LYS	C-N-CA	5.28	127.35	120.28
1	D	51	ASP	CA-C-N	5.28	127.66	120.54
1	D	51	ASP	C-N-CA	5.28	127.66	120.54
1	I	5	ASN	O-C-N	-5.28	115.78	122.27
1	J	230	VAL	CA-C-O	5.28	125.97	119.58
1	O	163	ASP	CA-C-N	5.28	127.35	120.28
1	O	163	ASP	C-N-CA	5.28	127.35	120.28
1	8	229	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	gb	112	GLN	CA-C-O	-5.28	114.83	120.42
1	gj	131	LYS	N-CA-C	5.28	117.03	111.28
1	gx	145	TYR	CB-CG-CD2	5.28	128.71	120.80
1	gI	102	SER	CA-C-O	5.28	126.36	120.82
1	1F	167	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	gT	209	ALA	N-CA-CB	-5.28	101.86	109.83
1	h2	95	GLN	O-C-N	-5.28	116.78	123.17
1	hh	182	LYS	CA-C-O	5.28	126.36	120.82
1	hl	7	GLN	OE1-CD-NE2	-5.28	117.33	122.60
1	1J	80	TRP	O-C-N	-5.28	116.14	122.15
1	hD	64	ALA	CA-C-O	5.28	126.36	120.82
1	hH	135	ILE	N-CA-C	-5.28	105.39	110.72
1	hI	10	MET	N-CA-CB	-5.28	102.27	110.29
1	hX	154	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	i4	95	GLN	CA-C-O	-5.28	115.72	121.89
1	ic	29	GLU	N-CA-C	5.28	119.81	112.90
1	in	198	CYS	CA-C-N	5.28	127.35	120.28
1	in	198	CYS	C-N-CA	5.28	127.35	120.28
1	it	27	VAL	O-C-N	-5.28	116.74	121.91
1	iH	126	VAL	CA-C-N	5.28	125.80	119.94
1	iH	126	VAL	C-N-CA	5.28	125.80	119.94
1	iP	23	TRP	N-CA-C	5.28	116.72	111.07
1	1S	21	ASN	CA-CB-CG	5.28	117.88	112.60
1	iU	142	VAL	CB-CA-C	-5.28	105.22	111.97
1	iW	76	GLU	CB-CG-CD	5.28	121.57	112.60
1	j0	153	ILE	CB-CA-C	-5.28	102.72	111.32
1	jh	202	LEU	N-CA-C	-5.28	105.61	111.36
1	1V	212	GLU	CA-C-N	5.28	127.30	120.44
1	1V	212	GLU	C-N-CA	5.28	127.30	120.44
1	jq	114	GLN	CB-CA-C	5.28	119.82	110.85
1	jy	208	ALA	O-C-N	-5.28	117.15	123.27
1	jK	161	PHE	N-CA-C	5.28	117.44	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jN	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	jN	67	GLN	CG-CD-NE2	-5.28	108.49	116.40
1	jR	33	SER	CB-CA-C	5.28	118.11	109.46
1	jU	78	ALA	CA-C-O	5.28	126.14	120.55
1	k2	79	GLU	O-C-N	-5.28	116.53	122.12
1	k2	177	ALA	O-C-N	-5.28	115.57	122.59
1	k6	111	LEU	N-CA-C	5.28	117.03	111.28
1	kk	198	CYS	CA-C-N	5.28	127.35	120.28
1	kk	198	CYS	C-N-CA	5.28	127.35	120.28
1	ky	178	SER	CA-C-N	5.28	127.61	120.38
1	ky	178	SER	C-N-CA	5.28	127.61	120.38
1	kD	16	SER	N-CA-C	5.28	117.08	109.48
1	kD	124	ILE	N-CA-C	5.28	112.77	107.55
1	kN	21	ASN	O-C-N	-5.28	116.14	122.15
1	l3	203	LYS	CA-C-N	5.28	127.35	120.28
1	l3	203	LYS	C-N-CA	5.28	127.35	120.28
1	l6	4	GLN	CB-CA-C	5.28	120.72	111.06
1	l8	12	HIS	N-CA-C	5.28	117.82	109.96
1	l8	145	TYR	CA-C-O	5.28	125.90	119.78
1	le	91	ILE	N-CA-C	5.28	115.89	109.30
1	lk	130	TYR	CA-C-N	5.28	127.35	120.28
1	lk	130	TYR	C-N-CA	5.28	127.35	120.28
1	28	118	MET	CG-SD-CE	-5.28	89.29	100.90
1	lu	126	VAL	CA-CB-CG1	5.28	119.37	110.40
1	lw	83	LEU	N-CA-CB	5.28	118.34	110.22
1	lE	148	THR	O-C-N	-5.28	116.34	121.93
1	lF	62	HIS	O-C-N	-5.28	115.34	122.41
1	lG	115	ILE	CA-C-O	5.28	126.17	120.47
1	lK	23	TRP	N-CA-C	5.28	117.03	111.28
1	2a	208	ALA	O-C-N	-5.28	115.36	122.43
1	2b	201	ILE	CB-CA-C	-5.28	104.94	112.22
1	2d	50	GLN	CA-C-N	5.28	127.30	120.44
1	2d	50	GLN	C-N-CA	5.28	127.30	120.44
1	2f	167	ARG	CA-C-N	5.28	128.12	120.79
1	2f	167	ARG	C-N-CA	5.28	128.12	120.79
1	2n	23	TRP	N-CA-C	-5.28	104.78	111.11
1	2p	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	2u	132	ARG	N-CA-C	5.28	118.82	112.38
1	2x	97	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	2J	90	PRO	N-CA-C	5.28	123.34	112.47
1	2R	229	ARG	CD-NE-CZ	5.28	131.79	124.40
1	2U	44	SER	N-CA-CB	5.28	118.55	110.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Y	132	ARG	CA-C-N	5.28	127.35	120.28
1	2Y	132	ARG	C-N-CA	5.28	127.35	120.28
1	3d	84	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	3m	12	HIS	N-CA-C	5.28	118.09	110.28
1	3w	92	GLU	CA-C-N	5.28	126.43	119.84
1	3w	92	GLU	C-N-CA	5.28	126.43	119.84
1	3E	158	LYS	CB-CA-C	-5.28	101.25	110.17
1	4e	3	VAL	N-CA-C	5.28	115.72	108.12
1	4j	78	ALA	O-C-N	-5.28	116.53	122.12
1	4n	73	ILE	CA-CB-CG1	5.28	119.37	110.40
1	4s	53	ASN	CB-CG-ND2	-5.28	108.49	116.40
1	4t	169	TYR	N-CA-CB	5.28	118.46	110.28
1	4z	182	LYS	O-C-N	-5.28	116.64	122.07
1	4A	130	TYR	CA-C-N	5.28	127.35	120.28
1	4A	130	TYR	C-N-CA	5.28	127.35	120.28
1	4C	25	LYS	N-CA-C	5.28	117.44	111.11
1	4F	70	LYS	N-CA-C	5.28	117.03	111.28
1	4J	91	ILE	CA-C-N	5.28	127.72	120.39
1	4J	91	ILE	C-N-CA	5.28	127.72	120.39
1	4T	153	ILE	N-CA-C	5.28	117.23	109.63
1	58	37	ILE	CA-C-N	5.28	124.60	118.85
1	58	37	ILE	C-N-CA	5.28	124.60	118.85
1	59	4	GLN	OE1-CD-NE2	-5.28	117.33	122.60
1	5d	66	MET	N-CA-C	5.28	117.03	111.28
1	5u	87	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	5J	56	LEU	N-CA-C	5.28	116.84	111.14
1	5Q	169	TYR	N-CA-C	5.28	117.03	111.28
1	66	150	ILE	O-C-N	-5.28	115.84	121.80
1	69	22	ALA	N-CA-C	5.28	117.03	111.28
1	6q	229	ARG	N-CA-C	5.28	117.49	110.53
1	6u	3	VAL	O-C-N	-5.28	115.97	122.57
1	6x	220	GLY	O-C-N	-5.28	115.84	122.70
1	6A	158	LYS	CG-CD-CE	5.28	123.44	111.30
1	6K	97	ARG	NE-CZ-NH2	-5.28	114.45	119.20
1	6P	155	GLN	O-C-N	-5.28	117.06	123.13
1	6X	24	VAL	CB-CA-C	-5.28	105.13	111.88
1	7e	205	LEU	N-CA-C	5.28	118.98	112.54
1	7f	37	ILE	N-CA-C	5.28	120.28	108.88
1	7s	28	GLU	N-CA-CB	5.28	117.97	110.06
1	7x	207	PRO	CA-C-O	-5.28	111.00	120.60
1	7y	225	GLY	O-C-N	-5.28	116.53	122.28
1	7N	91	ILE	CA-C-N	5.28	131.51	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7N	91	ILE	C-N-CA	5.28	131.51	122.38
1	7O	32	PHE	CB-CA-C	5.28	120.11	111.41
1	7S	123	PRO	CA-C-O	-5.28	115.44	121.56
1	7T	120	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	8a	12	HIS	CG-CD2-NE2	5.28	112.48	107.20
1	8i	58	THR	N-CA-C	5.28	117.03	111.28
1	8j	5	ASN	N-CA-C	-5.28	101.27	109.24
1	8j	193	ASN	OD1-CG-ND2	5.28	127.88	122.60
1	8r	212	GLU	O-C-N	5.28	127.50	122.07
1	8z	89	GLY	O-C-N	-5.28	116.50	121.77
1	8H	62	HIS	ND1-CE1-NE2	5.28	113.68	108.40
1	8H	120	HIS	O-C-N	-5.28	116.45	122.68
1	8M	70	LYS	N-CA-CB	5.28	117.88	110.12
1	8M	71	GLU	N-CA-CB	5.28	117.87	110.12
1	8R	113	GLU	CA-C-N	5.28	127.30	120.44
1	8R	113	GLU	C-N-CA	5.28	127.30	120.44
1	90	180	GLU	CB-CA-C	-5.28	101.88	110.85
1	90	221	VAL	N-CA-CB	5.28	116.28	110.53
1	9f	100	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	9i	63	GLN	OE1-CD-NE2	-5.28	117.32	122.60
1	9j	93	PRO	N-CA-C	-5.28	109.19	114.68
1	9p	168	PHE	CA-CB-CG	-5.28	108.52	113.80
1	9t	7	GLN	OE1-CD-NE2	-5.28	117.33	122.60
1	9t	214	MET	CA-C-N	5.28	127.88	120.28
1	9t	214	MET	C-N-CA	5.28	127.88	120.28
1	9u	45	GLU	CB-CA-C	-5.28	102.56	110.16
1	9x	9	GLN	N-CA-C	5.28	117.88	110.23
1	9C	9	GLN	O-C-N	-5.28	117.00	122.96
1	9I	27	VAL	N-CA-C	5.28	116.05	110.72
1	9K	226	HIS	O-C-N	5.28	129.61	122.59
1	9P	18	ARG	CA-C-O	5.28	126.14	120.55
1	Y	195	ASN	OD1-CG-ND2	-5.28	117.32	122.60
1	9W	86	VAL	O-C-N	-5.28	117.69	123.18
1	9Y	113	GLU	CB-CA-C	-5.28	102.37	110.81
1	a1	86	VAL	O-C-N	5.28	128.42	122.67
1	a5	124	ILE	O-C-N	-5.28	117.34	121.46
1	a6	191	VAL	CB-CA-C	-5.28	105.02	112.14
1	an	204	ALA	CA-C-N	5.28	127.88	120.28
1	an	204	ALA	C-N-CA	5.28	127.88	120.28
1	an	212	GLU	CB-CA-C	-5.28	101.71	110.68
1	ap	210	THR	N-CA-CB	5.28	119.01	110.41
1	as	140	LYS	O-C-N	-5.28	116.53	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ay	69	LEU	CA-C-N	5.28	127.30	120.44
1	ay	69	LEU	C-N-CA	5.28	127.30	120.44
1	aB	216	THR	CA-C-N	5.28	127.35	120.28
1	aB	216	THR	C-N-CA	5.28	127.35	120.28
1	aN	98	GLU	CA-C-N	5.28	125.19	119.76
1	aN	98	GLU	C-N-CA	5.28	125.19	119.76
1	aO	12	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	aQ	33	SER	CA-C-O	-5.28	115.07	120.87
1	aQ	212	GLU	CA-C-O	5.28	126.33	120.63
1	b3	202	LEU	CA-C-N	5.28	127.78	120.29
1	b3	202	LEU	C-N-CA	5.28	127.78	120.29
1	ba	181	VAL	N-CA-C	-5.28	105.25	111.00
1	bb	82	ARG	NE-CZ-NH1	-5.28	116.22	121.50
1	bb	184	TRP	CA-C-N	5.28	127.35	120.28
1	bb	184	TRP	C-N-CA	5.28	127.35	120.28
1	bg	66	MET	CA-C-O	-5.28	115.28	120.82
1	bJ	192	GLN	N-CA-CB	5.28	117.88	110.12
1	bR	139	ASN	CB-CG-ND2	5.28	124.31	116.40
1	1b	200	THR	N-CA-C	5.28	117.71	111.33
1	c7	144	MET	CG-SD-CE	-5.28	89.30	100.90
1	ca	65	ALA	CA-C-O	-5.28	114.14	120.10
1	cf	146	SER	CA-C-N	5.28	124.97	119.64
1	cf	146	SER	C-N-CA	5.28	124.97	119.64
1	1e	84	HIS	CA-C-N	5.28	126.44	119.84
1	1e	84	HIS	C-N-CA	5.28	126.44	119.84
1	cs	139	ASN	N-CA-CB	5.28	117.88	110.12
1	cU	110	THR	O-C-N	-5.28	117.15	123.27
1	d1	191	VAL	N-CA-CB	5.28	116.72	110.55
1	de	18	ARG	N-CA-C	5.28	117.11	111.36
1	di	152	ASP	N-CA-C	5.28	119.99	113.50
1	dj	135	ILE	CA-C-N	5.28	127.35	120.28
1	dj	135	ILE	C-N-CA	5.28	127.35	120.28
1	dj	187	GLU	N-CA-C	5.28	117.03	111.28
1	dp	82	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	dp	203	LYS	CA-C-N	5.28	127.66	120.54
1	dp	203	LYS	C-N-CA	5.28	127.66	120.54
1	dF	163	ASP	N-CA-C	5.28	117.11	111.36
1	dI	33	SER	CA-C-N	5.28	125.59	119.47
1	dI	33	SER	C-N-CA	5.28	125.59	119.47
1	dL	80	TRP	O-C-N	-5.28	116.53	122.12
1	dM	129	ILE	CA-C-N	5.28	127.66	120.54
1	dM	129	ILE	C-N-CA	5.28	127.66	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1n	171	THR	OG1-CB-CG2	-5.28	98.75	109.30
1	dV	216	THR	CB-CA-C	5.28	119.17	109.99
1	dX	59	VAL	O-C-N	-5.28	116.50	122.94
1	e5	211	LEU	O-C-N	-5.28	116.14	122.15
1	e8	186	THR	CA-CB-OG1	5.28	117.51	109.60
1	eh	96	MET	CA-C-O	-5.28	115.05	121.28
1	1q	173	ARG	N-CA-CB	-5.28	102.10	110.28
1	eo	159	GLU	O-C-N	5.28	127.34	121.43
1	eE	142	VAL	N-CA-C	5.28	117.64	111.05
1	eI	58	THR	O-C-N	-5.28	115.75	122.34
1	eK	27	VAL	N-CA-C	5.28	116.00	110.62
1	eT	132	ARG	O-C-N	-5.28	116.53	122.12
1	eW	95	GLN	N-CA-CB	-5.28	102.09	110.06
1	f7	98	GLU	CB-CA-C	5.28	116.15	110.08
1	1v	7	GLN	CA-C-O	5.28	124.70	118.90
1	fe	87	HIS	ND1-CE1-NE2	5.28	113.67	108.40
1	1w	83	LEU	N-CA-C	5.28	117.94	111.82
1	fl	145	TYR	CA-C-O	5.28	125.52	119.35
1	fp	16	SER	CA-C-N	5.28	124.60	118.85
1	fp	16	SER	C-N-CA	5.28	124.60	118.85
1	fx	127	GLY	O-C-N	-5.28	116.27	122.34
1	fH	173	ARG	NH1-CZ-NH2	-5.28	112.44	119.30
1	fO	195	ASN	OD1-CG-ND2	-5.28	117.33	122.60
1	fP	62	HIS	ND1-CG-CD2	5.28	111.38	106.10
1	fZ	87	HIS	CE1-NE2-CD2	-5.28	103.72	109.00
1	g1	206	GLY	CA-C-N	5.28	126.44	119.84
1	g1	206	GLY	C-N-CA	5.28	126.44	119.84
1	c	95	GLN	CG-CD-NE2	5.28	124.31	116.40
1	g	225	GLY	CA-C-N	5.28	130.05	122.40
1	g	225	GLY	C-N-CA	5.28	130.05	122.40
1	h	40	PHE	CA-C-O	5.28	126.36	120.82
1	j	167	ARG	NE-CZ-NH1	5.28	126.78	121.50
1	o	13	GLN	CG-CD-NE2	-5.28	108.49	116.40
1	t	203	LYS	CA-C-N	5.28	128.33	120.31
1	t	203	LYS	C-N-CA	5.28	128.33	120.31
1	v	40	PHE	CA-C-O	5.28	126.14	120.55
1	R	80	TRP	CA-C-N	5.28	128.08	120.38
1	R	80	TRP	C-N-CA	5.28	128.08	120.38
1	8	58	THR	CA-CB-CG2	5.28	119.47	110.50
1	ga	212	GLU	CA-C-N	5.27	127.35	120.28
1	ga	212	GLU	C-N-CA	5.27	127.35	120.28
1	gd	63	GLN	N-CA-C	5.27	117.03	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	23	TRP	CD2-CE3-CZ3	-5.27	111.74	118.60
1	gx	23	TRP	CB-CG-CD1	-5.27	118.99	126.90
1	h2	65	ALA	CA-C-N	5.27	127.30	120.44
1	h2	65	ALA	C-N-CA	5.27	127.30	120.44
1	h7	22	ALA	N-CA-C	5.27	117.03	111.28
1	hl	87	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	hv	67	GLN	CB-CA-C	5.27	119.16	110.88
1	hJ	24	VAL	CA-C-N	5.27	127.30	120.44
1	hJ	24	VAL	C-N-CA	5.27	127.30	120.44
1	hT	141	ILE	O-C-N	-5.27	116.74	121.91
1	ib	167	ARG	NH1-CZ-NH2	-5.27	112.44	119.30
1	id	219	GLN	N-CA-C	5.27	118.01	107.62
1	ik	44	SER	O-C-N	-5.27	114.99	122.06
1	iJ	119	THR	N-CA-CB	5.27	118.51	110.44
1	iQ	116	GLY	O-C-N	-5.27	117.12	122.18
1	j6	55	MET	O-C-N	5.27	127.50	122.07
1	jg	63	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	ju	81	ASP	O-C-N	-5.27	116.53	122.12
1	ke	178	SER	N-CA-CB	5.27	117.77	110.17
1	kg	18	ARG	O-C-N	5.27	127.71	122.12
1	kI	181	VAL	CA-C-N	5.27	127.35	120.28
1	kI	181	VAL	C-N-CA	5.27	127.35	120.28
1	lm	144	MET	CA-C-N	5.27	127.78	120.29
1	lm	144	MET	C-N-CA	5.27	127.78	120.29
1	lO	52	LEU	CA-C-O	5.27	126.14	120.55
1	2n	58	THR	CA-C-N	5.27	127.64	120.63
1	2n	58	THR	C-N-CA	5.27	127.64	120.63
1	2r	185	MET	CA-C-O	5.27	126.01	120.42
1	2W	79	GLU	CA-C-N	5.27	127.78	120.29
1	2W	79	GLU	C-N-CA	5.27	127.78	120.29
1	35	28	GLU	CA-C-O	-5.27	114.96	120.55
1	3a	37	ILE	O-C-N	-5.27	116.33	120.07
1	3s	50	GLN	CA-C-N	5.27	127.30	120.44
1	3s	50	GLN	C-N-CA	5.27	127.30	120.44
1	3F	8	GLY	N-CA-C	-5.27	107.97	115.30
1	4l	168	PHE	CA-C-O	5.27	126.36	120.82
1	4o	198	CYS	N-CA-CB	5.27	117.97	110.16
1	51	73	ILE	CA-C-N	5.27	127.35	120.28
1	51	73	ILE	C-N-CA	5.27	127.35	120.28
1	5j	229	ARG	NE-CZ-NH2	-5.27	114.45	119.20
1	5k	32	PHE	N-CA-CB	5.27	119.40	110.49
1	5y	60	GLY	CA-C-N	5.27	126.49	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	60	GLY	C-N-CA	5.27	126.49	120.53
1	5A	172	LEU	CA-C-N	5.27	127.35	120.28
1	5A	172	LEU	C-N-CA	5.27	127.35	120.28
1	5Y	85	PRO	CA-C-N	5.27	128.24	120.91
1	5Y	85	PRO	C-N-CA	5.27	128.24	120.91
1	62	96	MET	CA-C-O	5.27	126.99	121.19
1	65	104	ILE	CB-CA-C	-5.27	105.02	112.14
1	6b	128	GLU	N-CA-C	5.27	117.03	111.28
1	6n	226	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	6Q	214	MET	CA-C-O	-5.27	115.27	120.70
1	6V	212	GLU	CA-C-O	-5.27	115.01	120.92
1	78	195	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	7c	48	THR	OG1-CB-CG2	-5.27	98.75	109.30
1	7C	80	TRP	CD2-CE2-CZ2	-5.27	117.13	122.40
1	7P	228	ALA	N-CA-C	5.27	118.09	110.28
1	81	8	GLY	CA-C-O	5.27	128.32	121.68
1	83	150	ILE	CA-C-N	5.27	129.65	120.68
1	83	150	ILE	C-N-CA	5.27	129.65	120.68
1	8e	178	SER	N-CA-CB	-5.27	102.90	110.44
1	8i	18	ARG	CA-C-O	5.27	126.04	119.97
1	8k	104	ILE	O-C-N	5.27	127.20	121.87
1	8k	146	SER	O-C-N	-5.27	116.83	121.31
1	8l	202	LEU	O-C-N	-5.27	116.53	122.12
1	8q	133	TRP	O-C-N	-5.27	115.78	122.27
1	8K	62	HIS	CG-CD2-NE2	-5.27	101.93	107.20
1	8U	5	ASN	N-CA-C	5.27	116.99	108.08
1	95	133	TRP	CZ3-CH2-CZ2	-5.27	114.64	121.50
1	9e	3	VAL	O-C-N	-5.27	117.56	123.26
1	9E	198	CYS	CA-C-O	5.27	125.85	119.31
1	9J	62	HIS	CA-C-N	5.27	127.87	120.28
1	9J	62	HIS	C-N-CA	5.27	127.87	120.28
1	9T	85	PRO	CA-C-O	-5.27	115.40	121.36
1	9W	19	THR	OG1-CB-CG2	-5.27	98.75	109.30
1	aa	118	MET	N-CA-CB	-5.27	102.78	110.53
1	ap	86	VAL	O-C-N	-5.27	117.04	122.63
1	aQ	216	THR	CA-C-O	5.27	126.03	119.97
1	be	140	LYS	CB-CA-C	-5.27	102.57	110.90
1	bs	219	GLN	OE1-CD-NE2	5.27	127.87	122.60
1	bY	162	ARG	CA-C-N	5.27	127.35	120.28
1	bY	162	ARG	C-N-CA	5.27	127.35	120.28
1	1c	112	GLN	O-C-N	-5.27	115.78	122.27
1	cp	218	CYS	O-C-N	-5.27	116.71	122.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cq	192	GLN	O-C-N	-5.27	115.36	122.43
1	1i	200	THR	OG1-CB-CG2	-5.27	98.75	109.30
1	dI	23	TRP	N-CA-C	5.27	116.84	111.14
1	dK	87	HIS	O-C-N	-5.27	116.32	122.81
1	dK	230	VAL	CB-CA-C	5.27	118.58	111.94
1	dX	70	LYS	N-CA-C	5.27	117.44	111.11
1	e2	142	VAL	CB-CA-C	5.27	118.95	112.04
1	es	114	GLN	N-CA-C	5.27	117.44	111.11
1	ey	100	ARG	NH1-CZ-NH2	-5.27	112.44	119.30
1	eC	14	ALA	CA-C-N	5.27	127.64	120.63
1	eC	14	ALA	C-N-CA	5.27	127.64	120.63
1	eF	96	MET	N-CA-C	5.27	117.52	110.35
1	1t	125	PRO	N-CA-CB	-5.27	97.71	103.25
1	eQ	186	THR	CA-CB-CG2	5.27	119.47	110.50
1	f6	76	GLU	CA-C-N	5.27	127.61	120.38
1	f6	76	GLU	C-N-CA	5.27	127.61	120.38
1	1x	27	VAL	CA-C-O	-5.27	114.77	120.47
1	fN	166	ASP	O-C-N	5.27	127.50	122.07
1	1z	150	ILE	CB-CA-C	-5.27	104.35	112.05
1	g3	87	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	l	132	ARG	N-CA-C	5.27	117.71	111.33
1	n	225	GLY	O-C-N	-5.27	117.76	122.77
1	w	132	ARG	CA-C-N	5.27	127.35	120.28
1	w	132	ARG	C-N-CA	5.27	127.35	120.28
1	F	12	HIS	CA-CB-CG	-5.27	108.53	113.80
1	N	85	PRO	N-CD-CG	5.27	111.11	103.20
1	N	96	MET	N-CA-CB	5.27	118.02	110.06
1	g8	172	LEU	O-C-N	-5.27	116.14	122.15
1	ga	93	PRO	CB-CA-C	5.27	118.56	111.71
1	ge	107	THR	CA-C-O	5.27	126.03	119.97
1	gj	103	ASP	CB-CA-C	-5.27	102.60	110.88
1	gl	168	PHE	CA-CB-CG	5.27	119.07	113.80
1	gq	62	HIS	N-CA-CB	5.27	120.09	112.13
1	gs	141	ILE	N-CA-C	5.27	117.68	111.09
1	gs	196	PRO	N-CA-C	5.27	123.33	112.47
1	gt	52	LEU	N-CA-CB	5.27	117.66	110.01
1	gt	68	MET	CA-C-N	5.27	127.29	120.44
1	gt	68	MET	C-N-CA	5.27	127.29	120.44
1	gB	155	GLN	CB-CA-C	5.27	118.67	109.65
1	gC	42	ALA	CA-C-N	5.27	127.78	120.29
1	gC	42	ALA	C-N-CA	5.27	127.78	120.29
1	gP	88	ALA	N-CA-CB	-5.27	101.58	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gW	121	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	gW	219	GLN	CB-CG-CD	5.27	121.56	112.60
1	gY	91	ILE	N-CA-CB	5.27	118.99	110.13
1	gY	184	TRP	O-C-N	-5.27	116.53	122.12
1	ha	50	GLN	CB-CA-C	-5.27	102.60	110.88
1	hh	30	LYS	N-CA-CB	5.27	118.66	110.80
1	hl	47	ALA	N-CA-C	5.27	117.96	110.10
1	ho	143	ARG	CA-C-N	5.27	127.61	120.44
1	ho	143	ARG	C-N-CA	5.27	127.61	120.44
1	ho	152	ASP	CA-C-N	5.27	129.07	122.48
1	ho	152	ASP	C-N-CA	5.27	129.07	122.48
1	hs	5	ASN	N-CA-CB	-5.27	102.42	110.49
1	hK	95	GLN	O-C-N	-5.27	117.21	123.22
1	i0	120	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	ia	55	MET	CG-SD-CE	-5.27	89.30	100.90
1	ih	184	TRP	CB-CG-CD1	-5.27	118.99	126.90
1	ik	62	HIS	CA-C-O	5.27	126.18	120.12
1	io	113	GLU	N-CA-C	5.27	117.03	111.28
1	iB	67	GLN	CB-CG-CD	-5.27	103.64	112.60
1	iD	215	MET	CA-C-N	5.27	127.87	120.28
1	iD	215	MET	C-N-CA	5.27	127.87	120.28
1	iG	101	GLY	CA-C-O	5.27	126.18	120.75
1	iK	86	VAL	N-CA-C	5.27	116.17	108.53
1	iL	75	GLU	O-C-N	-5.27	116.53	122.12
1	iL	216	THR	CA-C-O	5.27	125.85	119.31
1	iN	208	ALA	O-C-N	-5.27	116.14	122.15
1	iO	71	GLU	CA-C-N	5.27	127.35	120.28
1	iO	71	GLU	C-N-CA	5.27	127.35	120.28
1	iO	189	LEU	CA-C-N	5.27	127.34	120.28
1	iO	189	LEU	C-N-CA	5.27	127.34	120.28
1	iX	65	ALA	O-C-N	-5.27	116.53	122.12
1	iZ	192	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	j4	87	HIS	CB-CG-CD2	5.27	138.06	131.20
1	j9	92	GLU	N-CA-C	5.27	117.36	110.08
1	jb	179	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	jd	163	ASP	N-CA-C	5.27	117.94	111.82
1	jm	48	THR	O-C-N	-5.27	115.14	121.31
1	jq	85	PRO	CA-C-O	-5.27	115.40	121.36
1	jC	226	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	jD	77	ALA	CA-C-N	5.27	127.78	120.29
1	jD	77	ALA	C-N-CA	5.27	127.78	120.29
1	1Y	199	LYS	N-CA-C	5.27	117.44	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jX	226	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	kc	226	HIS	N-CA-C	5.27	119.01	112.58
1	kk	196	PRO	N-CD-CG	5.27	111.11	103.20
1	kp	120	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	kq	166	ASP	CA-CB-CG	5.27	117.87	112.60
1	22	170	LYS	N-CA-C	5.27	117.03	111.28
1	22	176	GLN	CA-C-O	-5.27	115.44	120.92
1	kF	23	TRP	O-C-N	-5.27	116.14	122.15
1	kS	136	LEU	CA-C-O	5.27	126.54	120.90
1	25	163	ASP	CA-C-N	5.27	127.29	120.44
1	25	163	ASP	C-N-CA	5.27	127.29	120.44
1	l0	187	GLU	CA-CB-CG	5.27	124.64	114.10
1	l2	36	VAL	O-C-N	-5.27	115.98	122.57
1	l3	25	LYS	CB-CG-CD	5.27	123.43	111.30
1	l4	44	SER	CA-C-N	5.27	128.36	120.87
1	l4	44	SER	C-N-CA	5.27	128.36	120.87
1	l7	154	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	lf	229	ARG	N-CA-C	-5.27	100.43	108.76
1	lq	81	ASP	CA-C-O	5.27	126.14	120.55
1	lq	194	ALA	N-CA-C	5.27	118.08	110.28
1	lC	193	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	lG	30	LYS	N-CA-C	5.27	119.68	112.88
1	2k	13	GLN	N-CA-C	-5.27	100.44	109.24
1	2A	97	ARG	O-C-N	-5.27	116.32	122.81
1	2C	97	ARG	NH1-CZ-NH2	5.27	126.16	119.30
1	2F	79	GLU	CA-C-N	5.27	127.29	120.44
1	2F	79	GLU	C-N-CA	5.27	127.29	120.44
1	2J	201	ILE	CA-C-N	5.27	127.30	120.44
1	2J	201	ILE	C-N-CA	5.27	127.30	120.44
1	2K	153	ILE	N-CA-C	5.27	116.81	109.80
1	2T	36	VAL	N-CA-CB	5.27	117.71	110.54
1	2T	140	LYS	CB-CA-C	-5.27	102.38	110.81
1	2Y	76	GLU	N-CA-C	5.27	117.03	111.28
1	31	132	ARG	CB-CA-C	-5.27	102.04	110.79
1	35	33	SER	CA-C-O	-5.27	114.56	120.25
1	3f	6	LEU	N-CA-C	5.27	117.49	110.53
1	3g	229	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	3k	120	HIS	CA-CB-CG	5.27	119.07	113.80
1	3l	170	LYS	O-C-N	5.27	127.50	122.07
1	3x	143	ARG	CB-CA-C	5.27	118.82	109.65
1	3C	78	ALA	N-CA-C	5.27	117.77	111.71
1	3W	22	ALA	CA-C-N	5.27	127.29	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3W	22	ALA	C-N-CA	5.27	127.29	120.44
1	3W	159	GLU	N-CA-C	5.27	117.25	109.50
1	3X	230	VAL	CA-CB-CG2	-5.27	101.44	110.40
1	40	173	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	47	194	ALA	N-CA-C	5.27	117.52	110.35
1	4d	224	PRO	CA-C-N	5.27	130.62	120.66
1	4d	224	PRO	C-N-CA	5.27	130.62	120.66
1	4f	163	ASP	N-CA-CB	5.27	117.87	110.12
1	4s	114	GLN	CB-CG-CD	-5.27	103.64	112.60
1	4w	191	VAL	CA-CB-CG1	5.27	119.36	110.40
1	4K	114	GLN	CA-C-N	5.27	128.95	120.30
1	4K	114	GLN	C-N-CA	5.27	128.95	120.30
1	4L	63	GLN	CA-C-O	-5.27	115.28	120.82
1	4O	79	GLU	N-CA-C	5.27	117.03	111.28
1	5a	108	THR	CA-C-O	5.27	125.16	119.15
1	5c	59	VAL	CA-C-O	-5.27	114.57	120.95
1	5p	42	ALA	CA-C-N	5.27	127.35	120.28
1	5p	42	ALA	C-N-CA	5.27	127.35	120.28
1	5D	103	ASP	CA-CB-CG	-5.27	107.33	112.60
1	65	11	VAL	CB-CA-C	5.27	118.20	110.98
1	6d	53	ASN	CB-CA-C	-5.27	102.04	110.79
1	6i	176	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	6l	97	ARG	NE-CZ-NH2	-5.27	114.45	119.20
1	6p	33	SER	O-C-N	-5.27	115.65	121.66
1	6B	119	THR	CA-C-N	5.27	129.78	120.87
1	6B	119	THR	C-N-CA	5.27	129.78	120.87
1	6E	153	ILE	N-CA-CB	5.27	116.67	110.82
1	6G	106	GLY	O-C-N	-5.27	115.78	122.32
1	6M	92	GLU	CA-C-N	5.27	126.43	119.84
1	6M	92	GLU	C-N-CA	5.27	126.43	119.84
1	6T	58	THR	CA-CB-CG2	5.27	119.46	110.50
1	6W	82	ARG	NE-CZ-NH2	-5.27	114.45	119.20
1	6Y	187	GLU	N-CA-C	-5.27	107.01	113.50
1	70	47	ALA	N-CA-C	5.27	117.87	109.96
1	78	111	LEU	CA-C-N	5.27	127.35	120.28
1	78	111	LEU	C-N-CA	5.27	127.35	120.28
1	7a	23	TRP	CD2-CE2-CZ2	-5.27	117.13	122.40
1	7g	177	ALA	CA-C-N	5.27	129.78	121.56
1	7g	177	ALA	C-N-CA	5.27	129.78	121.56
1	7i	223	GLY	N-CA-C	5.27	123.09	112.34
1	7j	185	MET	CA-C-N	5.27	127.78	120.29
1	7j	185	MET	C-N-CA	5.27	127.78	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	191	VAL	N-CA-C	5.27	115.49	110.53
1	7x	87	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	7z	166	ASP	CA-CB-CG	5.27	117.87	112.60
1	7B	120	HIS	CB-CA-C	5.27	120.56	109.65
1	7D	161	PHE	CA-CB-CG	-5.27	108.53	113.80
1	7K	35	GLU	N-CA-C	5.27	118.81	112.38
1	7Q	218	CYS	N-CA-C	-5.27	105.65	113.40
1	7V	92	GLU	CB-CA-C	-5.27	100.81	109.46
1	81	9	GLN	N-CA-C	5.27	117.67	110.24
1	8d	67	GLN	CB-CG-CD	5.27	121.56	112.60
1	8l	163	ASP	O-C-N	-5.27	115.78	122.27
1	8y	173	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	8z	187	GLU	O-C-N	-5.27	116.14	122.15
1	8B	160	PRO	CB-CA-C	-5.27	104.66	111.46
1	8C	63	GLN	CB-CA-C	-5.27	102.60	110.88
1	8D	129	ILE	O-C-N	-5.27	116.74	121.91
1	8H	199	LYS	CA-C-O	-5.27	114.96	120.55
1	8L	162	ARG	N-CA-C	5.27	117.44	111.11
1	8N	26	VAL	CB-CA-C	5.27	119.50	112.22
1	8V	36	VAL	CB-CA-C	-5.27	104.94	112.22
1	9p	12	HIS	O-C-N	-5.27	116.38	123.23
1	9u	87	HIS	CB-CG-ND1	5.27	130.61	122.70
1	9O	140	LYS	O-C-N	-5.27	116.64	122.07
1	9U	76	GLU	N-CA-C	5.27	117.03	111.28
1	9V	117	TRP	CA-C-O	5.27	126.14	120.55
1	9Y	34	PRO	N-CA-C	5.27	123.33	112.47
1	9Y	104	ILE	N-CA-CB	5.27	116.72	110.55
1	a1	201	ILE	CB-CA-C	5.27	119.30	112.24
1	a2	6	LEU	N-CA-CB	5.27	119.40	110.49
1	a5	47	ALA	O-C-N	-5.27	116.64	122.86
1	aa	87	HIS	CA-CB-CG	5.27	119.07	113.80
1	ab	153	ILE	N-CA-C	5.27	116.38	109.21
1	ae	62	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	as	153	ILE	O-C-N	-5.27	116.92	122.83
1	aD	103	ASP	O-C-N	5.27	127.71	122.12
1	13	10	MET	N-CA-C	5.27	119.01	112.58
1	aN	92	GLU	N-CA-C	5.27	116.29	109.65
1	aX	83	LEU	CA-C-N	5.27	128.94	121.61
1	aX	83	LEU	C-N-CA	5.27	128.94	121.61
1	b1	201	ILE	CA-C-N	5.27	127.35	120.28
1	b1	201	ILE	C-N-CA	5.27	127.35	120.28
1	bb	13	GLN	OE1-CD-NE2	-5.27	117.33	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bf	7	GLN	CG-CD-NE2	5.27	124.31	116.40
1	br	33	SER	O-C-N	-5.27	118.16	121.85
1	br	135	ILE	CA-C-O	-5.27	115.47	120.95
1	bx	153	ILE	O-C-N	-5.27	117.03	122.14
1	bR	199	LYS	O-C-N	-5.27	116.53	122.12
1	bZ	37	ILE	N-CA-C	5.27	118.68	112.35
1	c1	168	PHE	CB-CA-C	5.27	119.30	110.92
1	cf	9	GLN	CA-C-N	5.27	131.61	121.54
1	cf	9	GLN	C-N-CA	5.27	131.61	121.54
1	cf	191	VAL	CG1-CB-CG2	-5.27	99.20	110.80
1	ck	165	VAL	CB-CA-C	5.27	119.26	112.14
1	cl	39	MET	N-CA-C	5.27	116.71	111.07
1	1e	64	ALA	O-C-N	-5.27	116.64	122.07
1	cE	201	ILE	O-C-N	-5.27	116.42	121.90
1	da	225	GLY	O-C-N	-5.27	116.33	122.60
1	dL	13	GLN	N-CA-C	-5.27	101.06	109.23
1	dL	66	MET	CA-C-O	-5.27	114.94	120.63
1	dM	170	LYS	N-CA-CB	-5.27	102.37	110.12
1	e0	117	TRP	CD2-CE2-CZ2	-5.27	117.13	122.40
1	1o	212	GLU	CA-C-N	5.27	127.60	120.38
1	1o	212	GLU	C-N-CA	5.27	127.60	120.38
1	e2	125	PRO	CA-C-N	5.27	127.68	120.46
1	e2	125	PRO	C-N-CA	5.27	127.68	120.46
1	ea	122	PRO	CA-N-CD	-5.27	104.12	111.50
1	eo	65	ALA	N-CA-CB	5.27	117.87	110.12
1	er	114	GLN	CA-C-N	5.27	127.31	120.56
1	er	114	GLN	C-N-CA	5.27	127.31	120.56
1	1r	138	LEU	N-CA-C	5.27	117.03	111.28
1	ew	149	SER	N-CA-CB	5.27	117.79	109.83
1	eJ	185	MET	CA-C-O	-5.27	115.28	120.82
1	eL	162	ARG	N-CA-C	5.27	117.71	111.33
1	eO	185	MET	N-CA-C	5.27	117.03	111.28
1	eS	195	ASN	O-C-N	-5.27	115.87	121.30
1	1w	74	ASN	O-C-N	-5.27	116.53	122.12
1	fk	105	ALA	CA-C-N	5.27	129.45	120.91
1	fk	105	ALA	C-N-CA	5.27	129.45	120.91
1	fs	131	LYS	O-C-N	-5.27	116.14	122.15
1	fD	87	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	1y	133	TRP	O-C-N	-5.27	116.53	122.12
1	fJ	185	MET	N-CA-C	5.27	117.03	111.28
1	fK	97	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	fS	143	ARG	N-CA-C	5.27	116.71	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	212	GLU	CA-C-N	5.27	127.34	120.28
1	g2	212	GLU	C-N-CA	5.27	127.34	120.28
1	h	154	ARG	O-C-N	-5.27	115.64	122.97
1	j	130	TYR	N-CA-C	-5.27	105.59	112.23
1	l	195	ASN	CA-C-N	5.27	126.43	119.84
1	l	195	ASN	C-N-CA	5.27	126.43	119.84
1	m	176	GLN	OE1-CD-NE2	5.27	127.87	122.60
1	o	63	GLN	N-CA-CB	-5.27	102.22	110.44
1	2	112	GLN	CA-C-N	5.27	127.78	120.29
1	2	112	GLN	C-N-CA	5.27	127.78	120.29
1	v	68	MET	O-C-N	-5.27	116.64	122.07
1	E	84	HIS	N-CA-C	5.27	119.17	109.10
1	E	87	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	H	82	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	P	27	VAL	N-CA-C	5.27	115.49	110.53
1	Q	74	ASN	N-CA-C	5.27	116.71	111.07
1	T	39	MET	CG-SD-CE	-5.27	89.30	100.90
1	T	218	CYS	CA-C-O	5.27	126.01	119.79
1	6	196	PRO	O-C-N	-5.27	116.18	122.24
1	gr	118	MET	N-CA-C	-5.27	106.80	113.18
1	gB	152	ASP	CA-CB-CG	5.27	117.87	112.60
1	gN	206	GLY	CA-C-N	5.27	124.96	119.64
1	gN	206	GLY	C-N-CA	5.27	124.96	119.64
1	gO	60	GLY	CA-C-N	5.27	127.91	121.06
1	gO	60	GLY	C-N-CA	5.27	127.91	121.06
1	hr	14	ALA	N-CA-CB	5.27	117.92	109.28
1	hr	102	SER	N-CA-CB	5.27	118.42	110.30
1	1K	74	ASN	CA-C-N	5.27	127.29	120.44
1	1K	74	ASN	C-N-CA	5.27	127.29	120.44
1	hJ	35	GLU	O-C-N	-5.27	115.42	122.43
1	ic	126	VAL	N-CA-C	5.27	115.89	110.36
1	ie	21	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	iq	157	PRO	N-CA-C	5.27	123.33	112.47
1	iM	2	ILE	CA-C-N	5.27	129.57	122.93
1	iM	2	ILE	C-N-CA	5.27	129.57	122.93
1	iN	12	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	iN	97	ARG	N-CA-CB	-5.27	102.29	110.04
1	iO	165	VAL	CA-C-N	5.27	127.34	120.28
1	iO	165	VAL	C-N-CA	5.27	127.34	120.28
1	jl	227	LYS	N-CA-C	5.27	117.81	109.96
1	jp	1	PRO	CA-C-N	5.27	130.32	122.99
1	jp	1	PRO	C-N-CA	5.27	130.32	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1X	144	MET	CA-C-N	5.27	127.29	120.44
1	1X	144	MET	C-N-CA	5.27	127.29	120.44
1	jI	19	THR	CA-C-O	5.27	126.53	121.00
1	ka	6	LEU	N-CA-CB	-5.27	101.81	110.14
1	kk	183	ASN	CB-CA-C	5.27	119.16	110.88
1	ko	85	PRO	CA-C-O	-5.27	115.73	121.27
1	ky	180	GLU	CA-C-N	5.27	127.68	120.46
1	ky	180	GLU	C-N-CA	5.27	127.68	120.46
1	kH	84	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	kN	55	MET	CG-SD-CE	-5.27	89.30	100.90
1	kT	203	LYS	N-CA-C	5.27	118.50	111.75
1	kW	87	HIS	CA-CB-CG	-5.27	108.53	113.80
1	l1	188	THR	CA-C-N	5.27	127.66	120.54
1	l1	188	THR	C-N-CA	5.27	127.66	120.54
1	lj	53	ASN	CA-CB-CG	-5.27	107.33	112.60
1	lr	163	ASP	CA-CB-CG	-5.27	107.33	112.60
1	lt	167	ARG	N-CA-C	5.27	118.87	112.23
1	ly	203	LYS	N-CA-C	5.27	116.71	111.07
1	lz	166	ASP	CB-CA-C	-5.27	102.04	110.79
1	lD	131	LYS	CA-C-O	-5.27	115.29	120.82
1	2b	100	ARG	CA-C-N	5.27	125.93	120.03
1	2b	100	ARG	C-N-CA	5.27	125.93	120.03
1	2h	145	TYR	N-CA-C	5.27	118.83	112.93
1	2v	95	GLN	N-CA-CB	-5.27	102.07	111.08
1	2x	90	PRO	N-CA-C	5.27	123.33	112.47
1	2O	162	ARG	O-C-N	-5.27	116.14	122.15
1	37	220	GLY	N-CA-C	-5.27	106.96	115.08
1	3i	87	HIS	O-C-N	-5.27	116.90	123.33
1	3r	134	ILE	N-CA-CB	5.27	116.72	110.55
1	3y	191	VAL	N-CA-C	5.27	115.48	110.42
1	3z	1	PRO	CB-CA-C	5.27	120.12	110.10
1	3F	114	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	3R	146	SER	CA-C-O	-5.27	115.76	120.19
1	4P	184	TRP	CE3-CZ3-CH2	-5.27	114.25	121.10
1	50	223	GLY	N-CA-C	5.27	123.09	112.34
1	5B	63	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	5E	63	GLN	CG-CD-OE1	-5.27	110.26	120.80
1	5J	210	THR	CA-C-N	5.27	127.29	120.44
1	5J	210	THR	C-N-CA	5.27	127.29	120.44
1	5M	104	ILE	CA-C-O	5.27	126.43	120.95
1	6d	87	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	6k	86	VAL	N-CA-C	5.27	115.85	108.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6G	91	ILE	CA-C-N	5.27	127.72	120.39
1	6G	91	ILE	C-N-CA	5.27	127.72	120.39
1	7i	84	HIS	CB-CA-C	-5.27	103.54	110.87
1	7i	139	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	7j	37	ILE	CA-C-O	-5.27	114.37	118.85
1	7m	45	GLU	CA-C-O	5.27	126.14	120.55
1	8c	163	ASP	CA-C-N	5.27	127.61	120.65
1	8c	163	ASP	C-N-CA	5.27	127.61	120.65
1	8B	67	GLN	CA-C-O	5.27	126.01	119.79
1	8N	111	LEU	CA-C-O	5.27	126.01	120.42
1	8S	66	MET	O-C-N	-5.27	116.53	122.12
1	9b	170	LYS	CB-CA-C	5.27	119.54	110.79
1	9n	19	THR	CA-CB-CG2	5.27	119.46	110.50
1	9o	228	ALA	CA-C-O	5.27	127.06	121.16
1	9P	167	ARG	CB-CA-C	-5.27	101.89	110.85
1	9Q	181	VAL	CA-C-O	-5.27	115.20	121.05
1	9Z	126	VAL	CA-C-O	5.27	126.43	120.95
1	ac	167	ARG	N-CA-C	5.27	117.03	111.28
1	as	162	ARG	N-CA-C	5.27	117.71	111.33
1	aD	59	VAL	O-C-N	5.27	128.05	122.62
1	aK	162	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	aS	53	ASN	O-C-N	-5.27	116.53	122.12
1	b8	19	THR	N-CA-C	5.27	117.77	111.71
1	by	53	ASN	CB-CG-OD1	-5.27	110.26	120.80
1	bH	173	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	bJ	154	ARG	O-C-N	-5.27	116.78	123.05
1	1a	51	ASP	CA-CB-CG	-5.27	107.33	112.60
1	1e	24	VAL	CA-CB-CG2	-5.27	101.44	110.40
1	cy	120	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	cU	128	GLU	N-CA-CB	-5.27	102.36	110.16
1	cX	55	MET	CB-CA-C	-5.27	102.04	110.79
1	de	111	LEU	O-C-N	-5.27	116.53	122.12
1	dm	207	PRO	N-CA-CB	-5.27	98.45	103.41
1	dA	222	GLY	N-CA-C	-5.27	106.39	112.29
1	e6	70	LYS	O-C-N	-5.27	116.14	122.15
1	ec	166	ASP	CA-C-N	5.27	127.34	120.28
1	ec	166	ASP	C-N-CA	5.27	127.34	120.28
1	eB	123	PRO	N-CA-C	5.27	119.49	111.11
1	eG	124	ILE	O-C-N	-5.27	114.28	120.66
1	1t	195	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	f1	36	VAL	CA-C-N	5.27	125.49	120.43
1	f1	36	VAL	C-N-CA	5.27	125.49	120.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f4	75	GLU	CA-C-N	5.27	127.87	120.28
1	f4	75	GLU	C-N-CA	5.27	127.87	120.28
1	f5	218	CYS	N-CA-C	5.27	118.90	111.52
1	f8	132	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	fr	108	THR	CA-C-N	5.27	130.43	123.00
1	fr	108	THR	C-N-CA	5.27	130.43	123.00
1	fV	222	GLY	CA-C-N	5.27	130.15	121.87
1	fV	222	GLY	C-N-CA	5.27	130.15	121.87
1	fX	44	SER	CA-C-O	-5.27	113.51	119.78
1	y	167	ARG	O-C-N	-5.27	116.64	122.07
1	Q	80	TRP	CB-CG-CD2	-5.27	119.42	126.80
1	T	84	HIS	O-C-N	-5.27	115.83	121.42
1	U	128	GLU	CA-C-O	5.27	126.14	120.55
1	V	226	HIS	N-CA-C	5.27	119.71	113.28
1	X	161	PHE	O-C-N	-5.27	116.05	122.22
1	ga	165	VAL	N-CA-C	5.27	116.00	110.62
1	ge	177	ALA	CA-C-N	5.27	129.16	121.31
1	ge	177	ALA	C-N-CA	5.27	129.16	121.31
1	gt	183	ASN	CA-CB-CG	-5.27	107.33	112.60
1	gv	114	GLN	CB-CA-C	5.27	119.15	110.88
1	gx	18	ARG	CA-C-N	5.27	127.29	120.44
1	gx	18	ARG	C-N-CA	5.27	127.29	120.44
1	gx	78	ALA	N-CA-C	5.27	117.02	111.28
1	gF	45	GLU	CB-CG-CD	5.27	121.56	112.60
1	gO	132	ARG	O-C-N	-5.27	116.53	122.12
1	gQ	227	LYS	N-CA-CB	-5.27	102.19	110.46
1	gR	62	HIS	CA-CB-CG	5.27	119.07	113.80
1	1G	117	TRP	N-CA-C	5.27	117.02	111.28
1	h0	103	ASP	O-C-N	5.27	127.71	122.12
1	h3	79	GLU	CA-C-N	5.27	127.34	120.28
1	h3	79	GLU	C-N-CA	5.27	127.34	120.28
1	h4	214	MET	N-CA-C	5.27	117.77	111.71
1	1H	107	THR	N-CA-CB	5.27	117.60	110.59
1	h8	133	TRP	O-C-N	-5.27	116.40	122.09
1	hh	51	ASP	CA-CB-CG	-5.27	107.33	112.60
1	hi	158	LYS	O-C-N	-5.27	115.86	122.24
1	hj	108	THR	OG1-CB-CG2	-5.27	98.76	109.30
1	hp	107	THR	N-CA-CB	5.27	118.41	110.30
1	hy	37	ILE	N-CA-C	5.27	118.67	112.35
1	hB	171	THR	O-C-N	-5.27	116.53	122.12
1	hE	7	GLN	CB-CA-C	-5.27	102.48	111.02
1	hF	135	ILE	CA-C-N	5.27	127.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hF	135	ILE	C-N-CA	5.27	127.34	120.28
1	hJ	43	LEU	N-CA-CB	-5.27	101.81	110.40
1	1L	214	MET	N-CA-C	5.27	116.71	111.07
1	hL	175	GLU	N-CA-C	5.27	118.08	110.28
1	hS	18	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	i4	124	ILE	N-CA-CB	5.27	117.53	111.31
1	i8	144	MET	CA-C-O	-5.27	114.96	120.55
1	i9	114	GLN	CA-C-O	5.27	126.35	120.82
1	is	87	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	iA	200	THR	N-CA-CB	5.27	117.87	110.12
1	iG	140	LYS	N-CA-CB	5.27	117.65	110.01
1	iR	180	GLU	O-C-N	-5.27	116.14	122.15
1	1T	96	MET	CA-C-N	5.27	131.60	121.54
1	1T	96	MET	C-N-CA	5.27	131.60	121.54
1	j7	168	PHE	CA-CB-CG	-5.27	108.53	113.80
1	jm	128	GLU	CA-C-N	5.27	127.40	120.60
1	jm	128	GLU	C-N-CA	5.27	127.40	120.60
1	jq	194	ALA	N-CA-CB	-5.27	103.08	110.25
1	js	130	TYR	CA-C-N	5.27	127.34	120.28
1	js	130	TYR	C-N-CA	5.27	127.34	120.28
1	js	158	LYS	N-CA-C	-5.27	105.56	112.41
1	jA	87	HIS	N-CA-C	5.27	118.60	111.17
1	1X	197	ASP	O-C-N	-5.27	115.19	122.46
1	jK	15	ILE	CA-CB-CG1	5.27	119.36	110.40
1	jK	138	LEU	CA-C-N	5.27	127.34	120.28
1	jK	138	LEU	C-N-CA	5.27	127.34	120.28
1	jL	77	ALA	CA-C-N	5.27	127.66	120.54
1	jL	77	ALA	C-N-CA	5.27	127.66	120.54
1	jN	155	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	jZ	159	GLU	N-CA-C	5.27	117.22	109.42
1	k6	7	GLN	N-CA-CB	5.27	117.65	109.48
1	ka	65	ALA	CA-C-N	5.27	127.34	120.28
1	ka	65	ALA	C-N-CA	5.27	127.34	120.28
1	ke	114	GLN	CA-C-N	5.27	127.68	120.46
1	ke	114	GLN	C-N-CA	5.27	127.68	120.46
1	ki	100	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	21	111	LEU	O-C-N	-5.27	116.53	122.12
1	kE	110	THR	N-CA-CB	5.27	117.76	110.17
1	kQ	4	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	kX	149	SER	O-C-N	-5.27	117.16	123.06
1	l5	8	GLY	O-C-N	5.27	129.00	122.41
1	lm	195	ASN	CB-CA-C	5.27	117.85	109.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lB	221	VAL	CA-C-N	5.27	131.74	121.41
1	lB	221	VAL	C-N-CA	5.27	131.74	121.41
1	lI	12	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	lJ	93	PRO	CB-CA-C	5.27	118.25	111.56
1	lK	19	THR	N-CA-CB	5.27	118.45	110.28
1	2a	146	SER	CA-C-N	5.27	126.43	119.84
1	2a	146	SER	C-N-CA	5.27	126.43	119.84
1	lO	9	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	lO	143	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	2d	84	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	2g	84	HIS	CA-C-N	5.27	126.01	120.11
1	2g	84	HIS	C-N-CA	5.27	126.01	120.11
1	2o	27	VAL	N-CA-C	5.27	116.00	110.62
1	2o	47	ALA	N-CA-CB	-5.27	102.28	110.29
1	2p	204	ALA	CA-C-N	5.27	131.92	122.38
1	2p	204	ALA	C-N-CA	5.27	131.92	122.38
1	2q	38	PRO	N-CA-CB	5.27	108.78	103.25
1	2D	142	VAL	N-CA-CB	5.27	116.36	110.51
1	2Q	36	VAL	N-CA-C	5.27	115.99	110.62
1	2T	159	GLU	O-C-N	-5.27	116.24	121.19
1	33	49	PRO	CA-C-N	5.27	127.34	120.28
1	33	49	PRO	C-N-CA	5.27	127.34	120.28
1	3d	121	ASN	CA-C-O	-5.27	114.31	119.69
1	3n	160	PRO	CA-C-N	5.27	127.77	120.29
1	3n	160	PRO	C-N-CA	5.27	127.77	120.29
1	3s	57	ASN	CA-CB-CG	-5.27	107.33	112.60
1	3B	135	ILE	N-CA-C	5.27	115.48	110.42
1	3F	86	VAL	CA-CB-CG2	-5.27	101.44	110.40
1	3L	216	THR	O-C-N	5.27	127.78	122.09
1	3T	47	ALA	N-CA-C	5.27	118.08	110.28
1	3V	66	MET	CB-CA-C	5.27	119.54	110.79
1	43	63	GLN	CA-C-O	-5.27	114.83	120.42
1	4a	102	SER	N-CA-C	5.27	119.71	113.28
1	4q	183	ASN	CA-C-O	5.27	125.86	119.38
1	4B	139	ASN	CA-CB-CG	5.27	117.87	112.60
1	4S	82	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	4X	193	ASN	CB-CG-OD1	5.27	131.34	120.80
1	5c	39	MET	N-CA-C	5.27	116.71	111.07
1	5r	115	ILE	N-CA-C	5.27	116.63	110.62
1	5z	99	PRO	N-CA-CB	5.27	108.24	103.34
1	5z	193	ASN	CA-CB-CG	-5.27	107.33	112.60
1	5C	22	ALA	CA-C-O	5.27	126.54	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5E	32	PHE	N-CA-CB	5.27	118.86	110.16
1	5G	61	GLY	CA-C-N	5.27	130.33	122.74
1	5G	61	GLY	C-N-CA	5.27	130.33	122.74
1	5K	192	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	5O	228	ALA	O-C-N	-5.27	116.39	122.87
1	5R	164	TYR	CA-C-N	5.27	127.40	120.60
1	5R	164	TYR	C-N-CA	5.27	127.40	120.60
1	5Z	162	ARG	N-CA-C	5.27	117.43	111.11
1	63	202	LEU	N-CA-C	5.27	117.03	111.28
1	6n	49	PRO	N-CA-CB	5.27	108.78	103.25
1	6n	226	HIS	N-CA-C	5.27	117.03	111.28
1	6G	14	ALA	N-CA-C	5.27	117.52	110.35
1	6O	110	THR	CA-C-N	5.27	127.29	120.44
1	6O	110	THR	C-N-CA	5.27	127.29	120.44
1	7d	83	LEU	O-C-N	-5.27	116.64	122.07
1	7j	120	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	7u	203	LYS	O-C-N	-5.27	116.53	122.12
1	7I	219	GLN	N-CA-C	5.27	117.77	111.71
1	7U	12	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	82	229	ARG	CB-CA-C	-5.27	101.16	109.80
1	8d	205	LEU	N-CA-CB	5.27	117.87	110.12
1	8e	85	PRO	N-CA-CB	5.27	107.75	103.32
1	8k	158	LYS	CA-C-N	5.27	128.94	121.61
1	8k	158	LYS	C-N-CA	5.27	128.94	121.61
1	8l	91	ILE	N-CA-CB	5.27	118.35	110.13
1	8q	184	TRP	O-C-N	-5.27	116.53	122.12
1	8r	129	ILE	N-CA-CB	5.27	117.31	110.57
1	8s	4	GLN	CA-C-N	5.27	131.67	122.82
1	8s	4	GLN	C-N-CA	5.27	131.67	122.82
1	8t	34	PRO	CA-C-O	-5.27	111.01	120.60
1	8B	97	ARG	N-CA-C	5.27	117.33	110.43
1	8P	130	TYR	CA-C-N	5.27	127.66	120.54
1	8P	130	TYR	C-N-CA	5.27	127.66	120.54
1	8W	124	ILE	N-CA-CB	5.27	116.79	111.36
1	96	87	HIS	CA-C-N	5.27	130.46	121.29
1	96	87	HIS	C-N-CA	5.27	130.46	121.29
1	96	143	ARG	NE-CZ-NH2	5.27	123.94	119.20
1	9a	144	MET	N-CA-CB	5.27	118.99	110.40
1	9e	219	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	9f	141	ILE	CA-C-O	5.27	126.76	121.17
1	9z	99	PRO	CA-C-N	5.27	132.62	122.03
1	9z	99	PRO	C-N-CA	5.27	132.62	122.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9B	32	PHE	CB-CG-CD2	-5.27	111.74	120.70
1	9I	185	MET	O-C-N	-5.27	116.53	122.12
1	9L	160	PRO	CA-C-N	5.27	127.60	120.38
1	9L	160	PRO	C-N-CA	5.27	127.60	120.38
1	9Q	29	GLU	CA-C-O	-5.27	114.18	120.56
1	ab	74	ASN	O-C-N	-5.27	116.64	122.07
1	al	1	PRO	CA-N-CD	-5.27	104.62	112.00
1	am	48	THR	N-CA-C	5.27	117.76	110.07
1	av	181	VAL	O-C-N	-5.27	116.40	121.83
1	az	98	GLU	N-CA-CB	5.27	118.12	109.90
1	aG	21	ASN	CA-C-N	5.27	127.77	120.29
1	aG	21	ASN	C-N-CA	5.27	127.77	120.29
1	aL	186	THR	OG1-CB-CG2	-5.27	98.76	109.30
1	aQ	142	VAL	CA-C-N	5.27	127.77	120.29
1	aQ	142	VAL	C-N-CA	5.27	127.77	120.29
1	aX	74	ASN	CA-C-N	5.27	127.29	120.44
1	aX	74	ASN	C-N-CA	5.27	127.29	120.44
1	aX	144	MET	N-CA-C	5.27	116.71	111.07
1	bf	112	GLN	CA-C-O	-5.27	115.26	120.90
1	bi	57	ASN	CA-CB-CG	-5.27	107.33	112.60
1	bl	226	HIS	N-CA-C	5.27	117.93	110.50
1	bo	181	VAL	N-CA-C	-5.27	106.55	111.45
1	bo	184	TRP	N-CA-C	5.27	116.71	111.07
1	bP	169	TYR	CA-CB-CG	-5.27	104.41	113.90
1	ce	203	LYS	N-CA-C	5.27	116.71	111.07
1	ci	180	GLU	N-CA-C	5.27	118.50	111.75
1	ci	210	THR	CB-CA-C	-5.27	99.84	109.54
1	cu	5	ASN	CA-C-N	5.27	131.60	121.54
1	cu	5	ASN	C-N-CA	5.27	131.60	121.54
1	cw	103	ASP	CA-CB-CG	5.27	117.87	112.60
1	cB	160	PRO	CA-C-O	-5.27	115.45	121.56
1	cF	178	SER	CA-C-N	5.27	127.60	120.38
1	cF	178	SER	C-N-CA	5.27	127.60	120.38
1	cG	160	PRO	N-CA-C	5.27	119.48	111.15
1	cK	210	THR	CA-C-N	5.27	127.87	120.28
1	cK	210	THR	C-N-CA	5.27	127.87	120.28
1	cM	24	VAL	CA-CB-CG1	5.27	119.36	110.40
1	cM	84	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	cV	50	GLN	CA-CB-CG	5.27	124.64	114.10
1	d0	160	PRO	N-CA-CB	-5.27	97.72	103.25
1	d7	169	TYR	N-CA-CB	5.27	117.71	110.07
1	d8	148	THR	CA-C-O	5.27	126.00	120.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dd	146	SER	N-CA-CB	5.27	119.32	109.68
1	di	40	PHE	O-C-N	-5.27	116.40	122.09
1	dt	133	TRP	CE2-CD2-CE3	-5.27	113.53	118.80
1	dH	150	ILE	CA-C-O	-5.27	115.47	120.95
1	dM	156	GLY	CA-C-N	-5.27	114.66	121.04
1	dM	156	GLY	C-N-CA	-5.27	114.66	121.04
1	dY	50	GLN	O-C-N	-5.27	116.53	122.12
1	dY	132	ARG	CA-C-N	5.27	127.34	120.28
1	dY	132	ARG	C-N-CA	5.27	127.34	120.28
1	dY	187	GLU	CA-C-O	5.27	126.14	120.55
1	dZ	106	GLY	N-CA-C	-5.27	107.41	115.00
1	e0	204	ALA	CA-C-N	5.27	128.32	120.31
1	e0	204	ALA	C-N-CA	5.27	128.32	120.31
1	e4	7	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	ei	50	GLN	OE1-CD-NE2	5.27	127.87	122.60
1	1q	24	VAL	CA-C-N	5.27	127.34	120.28
1	1q	24	VAL	C-N-CA	5.27	127.34	120.28
1	1r	107	THR	N-CA-C	-5.27	105.62	111.36
1	1r	229	ARG	CB-CA-C	5.27	119.21	111.73
1	1s	52	LEU	N-CA-C	5.27	117.02	111.28
1	eX	100	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	fa	98	GLU	CB-CG-CD	-5.27	103.64	112.60
1	fG	172	LEU	N-CA-C	5.27	117.93	111.82
1	fJ	4	GLN	N-CA-C	5.27	117.54	109.95
1	1A	143	ARG	NE-CZ-NH2	5.27	123.94	119.20
1	fY	218	CYS	N-CA-CB	5.27	119.39	110.49
1	g2	18	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	g2	35	GLU	CA-C-O	5.27	125.90	119.05
1	e	187	GLU	N-CA-C	5.27	117.10	111.36
1	y	222	GLY	CA-C-N	5.27	130.14	121.87
1	y	222	GLY	C-N-CA	5.27	130.14	121.87
1	A	206	GLY	CA-C-N	5.27	126.43	119.84
1	A	206	GLY	C-N-CA	5.27	126.43	119.84
1	C	34	PRO	CA-C-N	5.27	127.34	120.28
1	C	34	PRO	C-N-CA	5.27	127.34	120.28
1	F	97	ARG	CA-C-O	-5.27	115.75	121.44
1	I	136	LEU	N-CA-CB	5.27	117.87	110.12
1	gd	127	GLY	CA-C-N	5.27	127.29	120.44
1	gd	127	GLY	C-N-CA	5.27	127.29	120.44
1	gm	152	ASP	O-C-N	-5.27	116.11	122.48
1	gm	226	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	gp	4	GLN	OE1-CD-NE2	5.27	127.87	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	87	HIS	N-CA-C	5.27	118.11	110.42
1	gz	166	ASP	CA-C-N	5.27	127.77	120.29
1	gz	166	ASP	C-N-CA	5.27	127.77	120.29
1	gB	21	ASN	CA-CB-CG	5.27	117.87	112.60
1	gB	82	ARG	CA-C-N	5.27	127.77	120.29
1	gB	82	ARG	C-N-CA	5.27	127.77	120.29
1	gI	3	VAL	CB-CA-C	5.27	116.42	110.41
1	gO	199	LYS	CA-C-O	5.27	127.18	121.02
1	gU	110	THR	CA-C-N	5.27	127.34	120.28
1	gU	110	THR	C-N-CA	5.27	127.34	120.28
1	h0	48	THR	OG1-CB-CG2	-5.27	98.76	109.30
1	h1	135	ILE	N-CA-C	5.27	115.99	110.62
1	h9	111	LEU	N-CA-C	5.27	117.70	111.33
1	hf	94	GLY	O-C-N	-5.27	117.17	122.54
1	hi	203	LYS	CA-C-O	5.27	126.13	120.55
1	hj	145	TYR	O-C-N	-5.27	115.19	122.46
1	hv	74	ASN	CB-CG-ND2	-5.27	108.50	116.40
1	hx	139	ASN	N-CA-C	5.27	117.02	111.28
1	hA	201	ILE	N-CA-CB	5.27	117.31	110.57
1	hF	89	GLY	O-C-N	-5.27	116.50	121.77
1	hK	75	GLU	N-CA-C	5.27	116.71	111.07
1	hV	86	VAL	CA-CB-CG1	5.27	119.35	110.40
1	i1	184	TRP	CB-CA-C	5.27	119.81	110.85
1	i3	57	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	1N	17	PRO	O-C-N	-5.27	115.14	122.30
1	i9	58	THR	CA-C-O	5.27	125.86	119.38
1	i9	201	ILE	CA-C-O	5.27	126.75	121.17
1	ic	209	ALA	O-C-N	-5.27	116.00	123.01
1	io	102	SER	CA-C-N	5.27	127.29	120.44
1	io	102	SER	C-N-CA	5.27	127.29	120.44
1	iu	67	GLN	CA-C-O	-5.27	113.91	119.97
1	1Q	14	ALA	N-CA-C	5.27	117.93	110.50
1	iM	182	LYS	N-CA-C	5.27	117.70	111.33
1	iQ	28	GLU	O-C-N	-5.27	116.40	122.09
1	j3	170	LYS	CA-C-O	-5.27	114.84	120.42
1	j6	222	GLY	CA-C-N	5.27	130.14	121.87
1	j6	222	GLY	C-N-CA	5.27	130.14	121.87
1	j7	156	GLY	CA-C-O	5.27	127.15	121.62
1	j9	63	GLN	N-CA-CB	5.27	118.44	110.28
1	ji	193	ASN	O-C-N	-5.27	116.14	122.15
1	jk	170	LYS	CA-C-O	5.27	126.05	120.10
1	jm	113	GLU	CA-C-O	5.27	126.00	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jo	210	THR	O-C-N	-5.27	116.73	122.84
1	jv	150	ILE	CA-C-N	5.27	129.59	120.58
1	jv	150	ILE	C-N-CA	5.27	129.59	120.58
1	jF	23	TRP	N-CA-C	5.27	117.77	111.71
1	jN	219	GLN	O-C-N	-5.27	115.58	122.59
1	jW	155	GLN	CA-C-N	5.27	130.14	121.87
1	jW	155	GLN	C-N-CA	5.27	130.14	121.87
1	k8	102	SER	CA-C-O	5.27	126.13	120.55
1	kb	149	SER	N-CA-CB	5.27	118.06	109.69
1	kb	161	PHE	O-C-N	-5.27	116.06	122.22
1	kr	120	HIS	CA-CB-CG	5.27	119.07	113.80
1	22	43	LEU	CA-C-O	5.27	125.65	119.28
1	ku	204	ALA	CA-C-N	5.27	127.29	120.44
1	ku	204	ALA	C-N-CA	5.27	127.29	120.44
1	kC	42	ALA	CA-C-O	5.27	126.13	120.55
1	kC	221	VAL	O-C-N	-5.27	116.35	122.09
1	kF	108	THR	CA-CB-OG1	5.27	117.50	109.60
1	kF	137	GLY	CA-C-N	5.27	127.86	120.28
1	kF	137	GLY	C-N-CA	5.27	127.86	120.28
1	kI	10	MET	CA-C-O	5.27	126.89	120.57
1	kJ	209	ALA	N-CA-C	5.27	117.52	110.35
1	kN	63	GLN	CA-C-N	5.27	127.77	120.29
1	kN	63	GLN	C-N-CA	5.27	127.77	120.29
1	kP	165	VAL	CA-C-O	5.27	126.43	120.85
1	l0	210	THR	CA-CB-OG1	5.27	117.50	109.60
1	l1	12	HIS	ND1-CE1-NE2	5.27	113.67	108.40
1	l2	55	MET	CA-C-N	5.27	127.34	120.28
1	l2	55	MET	C-N-CA	5.27	127.34	120.28
1	l6	48	THR	O-C-N	-5.27	114.49	121.34
1	le	111	LEU	CA-C-N	5.27	127.77	120.29
1	le	111	LEU	C-N-CA	5.27	127.77	120.29
1	ls	158	LYS	N-CA-C	-5.27	105.31	112.26
1	lt	133	TRP	CA-C-O	-5.27	114.15	120.10
1	lw	48	THR	O-C-N	-5.27	114.95	121.64
1	ly	22	ALA	CA-C-N	5.27	127.34	120.28
1	ly	22	ALA	C-N-CA	5.27	127.34	120.28
1	lD	201	ILE	CA-C-N	5.27	127.77	120.29
1	lD	201	ILE	C-N-CA	5.27	127.77	120.29
1	lI	108	THR	CA-CB-CG2	-5.27	101.55	110.50
1	lN	50	GLN	CB-CA-C	-5.27	102.05	110.79
1	lO	117	TRP	CB-CG-CD1	-5.27	119.00	126.90
1	2e	55	MET	N-CA-C	5.27	116.71	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2h	150	ILE	CA-CB-CG1	5.27	119.36	110.40
1	2n	92	GLU	N-CA-C	5.27	116.33	109.64
1	2q	84	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	2q	211	LEU	CA-C-O	5.27	126.13	120.55
1	2u	87	HIS	CA-C-O	-5.27	115.75	121.44
1	2x	171	THR	N-CA-CB	5.27	117.96	110.16
1	2F	9	GLN	N-CA-CB	5.27	119.22	110.63
1	2F	206	GLY	O-C-N	-5.27	116.50	121.77
1	2M	145	TYR	CA-C-N	5.27	127.81	120.65
1	2M	145	TYR	C-N-CA	5.27	127.81	120.65
1	2Q	130	TYR	N-CA-C	5.27	117.02	111.28
1	2U	29	GLU	O-C-N	-5.27	115.93	122.25
1	35	39	MET	N-CA-CB	5.27	117.65	110.01
1	3c	183	ASN	CA-C-O	5.27	126.03	119.97
1	3i	39	MET	O-C-N	-5.27	115.79	122.27
1	3p	132	ARG	CG-CD-NE	-5.27	100.41	112.00
1	3s	191	VAL	N-CA-C	-5.27	106.74	112.80
1	3D	48	THR	CA-C-O	-5.27	114.96	120.70
1	3E	132	ARG	N-CA-CB	-5.27	102.38	110.12
1	3K	12	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	3K	125	PRO	CA-C-N	5.27	127.20	120.56
1	3K	125	PRO	C-N-CA	5.27	127.20	120.56
1	4a	129	ILE	N-CA-CB	5.27	117.70	110.54
1	4c	171	THR	N-CA-CB	5.27	117.65	110.01
1	4g	4	GLN	N-CA-CB	5.27	119.39	110.49
1	4m	216	THR	CA-C-O	5.27	125.43	119.27
1	4o	179	GLN	CA-C-O	-5.27	115.26	120.90
1	4I	214	MET	N-CA-C	-5.27	106.87	113.72
1	4P	84	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	4V	22	ALA	CA-C-N	5.27	127.65	120.54
1	4V	22	ALA	C-N-CA	5.27	127.65	120.54
1	56	112	GLN	CA-C-N	5.27	127.86	120.28
1	56	112	GLN	C-N-CA	5.27	127.86	120.28
1	58	65	ALA	O-C-N	-5.27	116.54	122.12
1	5a	177	ALA	N-CA-C	5.27	117.52	110.35
1	5b	115	ILE	CA-C-N	5.27	125.94	119.99
1	5b	115	ILE	C-N-CA	5.27	125.94	119.99
1	5c	186	THR	N-CA-C	5.27	117.10	111.36
1	5d	218	CYS	CA-C-N	5.27	127.34	120.28
1	5d	218	CYS	C-N-CA	5.27	127.34	120.28
1	5t	18	ARG	CA-C-N	5.27	127.34	120.28
1	5t	18	ARG	C-N-CA	5.27	127.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5K	166	ASP	CA-C-N	5.27	127.34	120.28
1	5K	166	ASP	C-N-CA	5.27	127.34	120.28
1	5M	104	ILE	O-C-N	-5.27	116.76	121.87
1	5T	87	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	60	156	GLY	CA-C-N	5.27	126.42	119.84
1	60	156	GLY	C-N-CA	5.27	126.42	119.84
1	62	57	ASN	CA-C-N	5.27	127.60	120.44
1	62	57	ASN	C-N-CA	5.27	127.60	120.44
1	6c	218	CYS	CA-C-N	5.27	129.43	122.42
1	6c	218	CYS	C-N-CA	5.27	129.43	122.42
1	6g	229	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	6r	197	ASP	CB-CA-C	-5.27	102.61	110.88
1	6w	187	GLU	N-CA-C	5.27	117.02	111.28
1	6C	16	SER	N-CA-C	5.27	117.24	109.50
1	6G	153	ILE	CA-C-O	-5.27	115.56	121.36
1	6W	12	HIS	CA-CB-CG	5.27	119.07	113.80
1	70	117	TRP	O-C-N	-5.27	116.54	122.12
1	71	143	ARG	N-CA-C	5.27	116.71	111.07
1	78	40	PHE	N-CA-C	5.27	117.43	111.11
1	7l	117	TRP	CD2-CE2-CZ2	-5.27	117.13	122.40
1	7m	130	TYR	CA-C-O	5.27	126.13	120.55
1	7n	208	ALA	N-CA-C	-5.27	106.79	113.43
1	7M	117	TRP	CB-CG-CD2	-5.27	119.43	126.80
1	7U	116	GLY	CA-C-O	5.27	126.18	120.75
1	81	213	GLU	CA-C-O	5.27	126.00	120.42
1	8c	120	HIS	CA-C-O	-5.27	115.76	121.87
1	8f	76	GLU	N-CA-C	5.27	117.77	111.71
1	8v	49	PRO	CA-C-O	5.27	126.38	119.00
1	8D	18	ARG	CB-CA-C	-5.27	102.04	110.79
1	8F	26	VAL	O-C-N	-5.27	116.40	121.83
1	8W	132	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	9f	179	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	9m	177	ALA	N-CA-C	5.27	117.98	110.24
1	9u	23	TRP	CA-CB-CG	5.27	123.61	113.60
1	9y	148	THR	CA-C-O	5.27	126.89	121.10
1	9z	186	THR	N-CA-CB	5.27	118.33	110.22
1	9C	182	LYS	O-C-N	-5.27	116.54	122.12
1	9I	193	ASN	N-CA-C	-5.27	107.03	112.93
1	9L	80	TRP	CA-C-N	5.27	127.29	120.44
1	9L	80	TRP	C-N-CA	5.27	127.29	120.44
1	9M	10	MET	CG-SD-CE	-5.27	89.31	100.90
1	9S	67	GLN	OE1-CD-NE2	-5.27	117.33	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9S	178	SER	N-CA-C	-5.27	103.58	110.53
1	9U	115	ILE	CA-C-O	-5.27	115.79	121.27
1	a8	158	LYS	CA-C-N	5.27	127.73	120.67
1	a8	158	LYS	C-N-CA	5.27	127.73	120.67
1	ak	87	HIS	CB-CG-ND1	5.27	130.60	122.70
1	ax	221	VAL	CA-CB-CG1	-5.27	101.45	110.40
1	aK	54	THR	CA-CB-CG2	5.27	119.45	110.50
1	aL	113	GLU	CA-C-O	5.27	126.35	120.82
1	aL	190	LEU	CA-C-O	5.27	126.13	120.70
1	aU	29	GLU	CB-CA-C	-5.27	101.18	109.34
1	aW	97	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	16	183	ASN	OD1-CG-ND2	5.27	127.87	122.60
1	bf	133	TRP	CA-C-O	5.27	126.35	120.82
1	bg	107	THR	CA-C-O	5.27	126.35	120.82
1	bh	80	TRP	O-C-N	-5.27	116.64	122.07
1	bk	46	GLY	O-C-N	-5.27	115.91	122.34
1	bp	18	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	bC	97	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	bE	85	PRO	N-CA-CB	-5.27	97.72	103.25
1	bH	222	GLY	CA-C-N	5.27	130.14	121.87
1	bH	222	GLY	C-N-CA	5.27	130.14	121.87
1	1c	171	THR	CA-C-N	5.27	127.29	120.44
1	1c	171	THR	C-N-CA	5.27	127.29	120.44
1	ch	91	ILE	CA-C-O	5.27	126.82	120.66
1	ch	199	LYS	CA-C-O	5.27	126.32	120.63
1	cu	224	PRO	CA-CB-CG	-5.27	94.49	104.50
1	cv	112	GLN	N-CA-C	5.27	117.70	111.33
1	1f	139	ASN	CA-C-O	-5.27	114.97	120.55
1	cD	152	ASP	CA-CB-CG	5.27	117.87	112.60
1	cK	167	ARG	CD-NE-CZ	5.27	131.77	124.40
1	cO	94	GLY	N-CA-C	5.27	123.24	113.76
1	cV	206	GLY	O-C-N	5.27	127.04	121.77
1	cY	51	ASP	N-CA-C	5.27	116.71	111.07
1	d3	20	LEU	O-C-N	-5.27	116.14	122.15
1	d3	205	LEU	N-CA-CB	5.27	117.95	110.16
1	d9	153	ILE	CA-C-O	5.27	127.36	120.78
1	dk	132	ARG	N-CA-C	5.27	116.70	111.07
1	dn	184	TRP	N-CA-C	5.27	117.02	111.28
1	dp	13	GLN	CA-C-N	5.27	128.32	120.95
1	dp	13	GLN	C-N-CA	5.27	128.32	120.95
1	du	135	ILE	N-CA-CB	5.27	117.70	110.54
1	dx	224	PRO	N-CA-C	5.27	123.32	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dy	185	MET	N-CA-C	5.27	117.02	111.28
1	dE	84	HIS	CA-C-N	5.27	125.27	119.90
1	dE	84	HIS	C-N-CA	5.27	125.27	119.90
1	dI	198	CYS	CA-C-N	5.27	127.65	120.54
1	dI	198	CYS	C-N-CA	5.27	127.65	120.54
1	dM	4	GLN	CB-CA-C	-5.27	100.19	109.62
1	dS	140	LYS	CA-C-N	5.27	127.30	120.56
1	dS	140	LYS	C-N-CA	5.27	127.30	120.56
1	e1	195	ASN	CA-C-N	5.27	126.42	119.84
1	e1	195	ASN	C-N-CA	5.27	126.42	119.84
1	e3	16	SER	CB-CA-C	5.27	117.01	109.11
1	e9	179	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	e9	210	THR	N-CA-CB	5.27	118.89	110.46
1	eb	197	ASP	CA-CB-CG	-5.27	107.33	112.60
1	eo	16	SER	O-C-N	-5.27	116.61	121.30
1	ew	196	PRO	O-C-N	-5.27	115.91	122.23
1	eL	29	GLU	N-CA-C	5.27	119.80	112.90
1	eN	226	HIS	N-CA-CB	-5.27	101.66	110.83
1	eQ	121	ASN	CA-CB-CG	-5.27	107.33	112.60
1	eT	169	TYR	O-C-N	-5.27	115.79	122.27
1	eT	217	ALA	O-C-N	-5.27	116.80	123.17
1	eZ	196	PRO	N-CA-C	5.27	123.32	112.47
1	f6	84	HIS	O-C-N	5.27	128.13	121.12
1	fa	212	GLU	CA-C-O	5.27	126.13	120.55
1	ff	171	THR	CA-C-N	5.27	127.34	120.28
1	ff	171	THR	C-N-CA	5.27	127.34	120.28
1	fu	15	ILE	CA-C-N	5.27	127.97	120.49
1	fu	15	ILE	C-N-CA	5.27	127.97	120.49
1	fI	56	LEU	CA-C-O	5.27	126.13	120.55
1	fQ	76	GLU	N-CA-C	5.27	116.71	110.97
1	fW	10	MET	O-C-N	-5.27	116.49	122.23
1	fW	93	PRO	CA-C-O	5.27	126.87	121.23
1	g2	81	ASP	CA-C-O	5.27	126.13	120.55
1	g5	10	MET	N-CA-CB	5.27	117.78	110.04
1	g	170	LYS	N-CA-CB	-5.27	102.11	110.28
1	1	55	MET	CG-SD-CE	-5.27	89.31	100.90
1	1	114	GLN	OE1-CD-NE2	5.27	127.87	122.60
1	k	203	LYS	CA-C-O	5.27	126.13	120.55
1	l	22	ALA	CA-C-O	5.27	126.03	119.97
1	B	190	LEU	CA-C-N	5.27	128.98	120.55
1	B	190	LEU	C-N-CA	5.27	128.98	120.55
1	M	209	ALA	N-CA-C	5.27	117.51	110.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	88	ALA	CA-C-N	5.27	130.14	121.87
1	Q	88	ALA	C-N-CA	5.27	130.14	121.87
1	V	192	GLN	N-CA-C	5.27	117.43	111.11
1	gm	188	THR	CB-CA-C	5.27	120.90	110.42
1	gr	123	PRO	N-CA-CB	5.27	108.24	103.34
1	gt	121	ASN	CB-CA-C	5.27	118.89	110.62
1	1G	24	VAL	CA-C-N	5.27	127.34	120.28
1	1G	24	VAL	C-N-CA	5.27	127.34	120.28
1	h6	139	ASN	CB-CG-OD1	-5.27	110.27	120.80
1	h8	68	MET	N-CA-C	5.27	117.02	111.28
1	h9	97	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
1	1J	193	ASN	N-CA-CB	5.27	118.11	110.47
1	hN	82	ARG	O-C-N	-5.27	116.40	122.09
1	i1	50	GLN	N-CA-C	5.27	116.70	111.07
1	i6	121	ASN	OD1-CG-ND2	5.27	127.87	122.60
1	ia	33	SER	O-C-N	5.27	125.49	121.65
1	is	128	GLU	O-C-N	-5.27	116.65	122.07
1	ji	103	ASP	N-CA-C	5.27	117.02	111.28
1	1V	162	ARG	N-CA-C	5.27	117.70	111.33
1	jq	179	GLN	CB-CA-C	-5.27	102.05	110.79
1	jP	12	HIS	CG-CD2-NE2	5.27	112.47	107.20
1	k5	62	HIS	CA-C-N	5.27	127.34	120.28
1	k5	62	HIS	C-N-CA	5.27	127.34	120.28
1	k9	41	SER	N-CA-C	5.27	117.02	111.28
1	kX	76	GLU	O-C-N	5.27	128.15	122.15
1	l0	101	GLY	N-CA-C	5.27	119.01	112.64
1	lw	7	GLN	N-CA-C	-5.27	104.65	111.71
1	ly	183	ASN	CA-C-N	5.27	128.31	120.31
1	ly	183	ASN	C-N-CA	5.27	128.31	120.31
1	2f	183	ASN	CA-CB-CG	-5.27	107.33	112.60
1	2k	54	THR	CA-C-N	5.27	127.59	120.38
1	2k	54	THR	C-N-CA	5.27	127.59	120.38
1	2l	167	ARG	CA-C-N	5.27	127.77	120.29
1	2l	167	ARG	C-N-CA	5.27	127.77	120.29
1	2z	43	LEU	CA-C-N	-5.27	114.22	122.65
1	2z	43	LEU	C-N-CA	-5.27	114.22	122.65
1	2A	210	THR	CA-C-N	5.27	127.34	120.28
1	2A	210	THR	C-N-CA	5.27	127.34	120.28
1	2D	168	PHE	O-C-N	-5.27	116.65	122.07
1	2F	184	TRP	CA-C-N	5.27	127.59	120.38
1	2F	184	TRP	C-N-CA	5.27	127.59	120.38
1	2Q	86	VAL	N-CA-C	-5.27	101.00	108.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	33	199	LYS	N-CA-C	5.27	117.02	111.28
1	3z	148	THR	CA-C-N	5.27	131.60	121.54
1	3z	148	THR	C-N-CA	5.27	131.60	121.54
1	3A	183	ASN	CA-C-N	5.27	127.34	120.28
1	3A	183	ASN	C-N-CA	5.27	127.34	120.28
1	3B	85	PRO	N-CA-CB	-5.27	98.62	103.25
1	3L	67	GLN	CA-C-N	5.27	127.34	120.28
1	3L	67	GLN	C-N-CA	5.27	127.34	120.28
1	40	98	GLU	N-CA-C	5.27	116.33	109.64
1	4g	106	GLY	O-C-N	-5.27	117.25	122.41
1	4m	204	ALA	N-CA-C	5.27	117.70	111.33
1	4A	107	THR	CA-C-O	5.27	127.50	120.13
1	4Q	174	ALA	CA-C-O	5.27	125.86	119.38
1	5f	186	THR	O-C-N	-5.27	116.54	122.12
1	62	143	ARG	N-CA-CB	5.27	117.86	110.12
1	66	5	ASN	O-C-N	-5.27	116.79	122.79
1	6e	61	GLY	N-CA-C	5.27	120.31	112.41
1	6i	100	ARG	NE-CZ-NH1	5.27	126.77	121.50
1	6w	70	LYS	O-C-N	5.27	127.70	122.12
1	6E	50	GLN	OE1-CD-NE2	-5.27	117.33	122.60
1	6I	41	SER	CA-C-N	5.27	127.34	120.28
1	6I	41	SER	C-N-CA	5.27	127.34	120.28
1	6Z	228	ALA	CA-C-N	5.27	128.56	120.82
1	6Z	228	ALA	C-N-CA	5.27	128.56	120.82
1	7u	184	TRP	CA-C-N	5.27	127.29	120.44
1	7u	184	TRP	C-N-CA	5.27	127.29	120.44
1	7y	37	ILE	N-CA-CB	5.27	114.56	110.45
1	7y	62	HIS	CA-C-N	5.27	127.34	120.28
1	7y	62	HIS	C-N-CA	5.27	127.34	120.28
1	80	33	SER	CA-C-O	-5.27	114.74	120.69
1	8C	130	TYR	N-CA-C	5.27	117.02	111.28
1	8N	183	ASN	N-CA-CB	-5.27	102.38	110.12
1	9E	107	THR	N-CA-C	5.27	116.70	111.07
1	9X	197	ASP	CA-C-O	-5.27	114.97	120.55
1	a1	150	ILE	CA-C-N	5.27	127.34	120.28
1	a1	150	ILE	C-N-CA	5.27	127.34	120.28
1	aU	51	ASP	O-C-N	-5.27	116.54	122.12
1	aU	85	PRO	O-C-N	-5.27	116.30	122.99
1	aX	1	PRO	N-CD-CG	5.27	111.10	103.20
1	bm	166	ASP	CA-C-O	5.27	126.13	120.55
1	bL	114	GLN	CG-CD-NE2	5.27	124.30	116.40
1	c3	151	LEU	N-CA-C	5.27	117.02	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cE	5	ASN	CA-CB-CG	-5.27	107.33	112.60
1	cG	32	PHE	CA-CB-CG	-5.27	108.53	113.80
1	cQ	132	ARG	NE-CZ-NH2	-5.27	114.46	119.20
1	di	195	ASN	OD1-CG-ND2	-5.27	117.33	122.60
1	dl	145	TYR	CA-C-N	5.27	129.70	121.17
1	dl	145	TYR	C-N-CA	5.27	129.70	121.17
1	dr	70	LYS	N-CA-C	5.27	116.70	111.07
1	dr	108	THR	CA-CB-CG2	-5.27	101.55	110.50
1	dR	218	CYS	N-CA-CB	5.27	119.39	110.49
1	eh	180	GLU	N-CA-CB	-5.27	102.38	110.12
1	ej	73	ILE	O-C-N	-5.27	115.15	122.05
1	ez	132	ARG	N-CA-C	5.27	116.70	111.07
1	fc	178	SER	N-CA-C	5.27	117.33	110.43
1	1y	54	THR	CA-C-N	5.27	127.65	120.54
1	1y	54	THR	C-N-CA	5.27	127.65	120.54
1	fI	203	LYS	N-CA-C	5.27	117.02	111.28
1	1z	55	MET	N-CA-C	5.27	117.02	111.28
1	fV	200	THR	N-CA-C	5.27	116.70	111.07
1	g4	124	ILE	CA-C-O	5.27	122.61	119.19
1	g6	192	GLN	N-CA-CB	-5.27	102.37	110.16
1	b	44	SER	CA-C-N	5.27	128.81	121.02
1	b	44	SER	C-N-CA	5.27	128.81	121.02
1	i	68	MET	N-CA-C	5.27	116.70	111.07
1	S	1	PRO	CA-C-N	5.27	129.49	122.01
1	S	1	PRO	C-N-CA	5.27	129.49	122.01
1	g8	98	GLU	N-CA-C	5.26	118.97	109.44
1	ga	167	ARG	CA-C-N	5.26	128.11	120.79
1	ga	167	ARG	C-N-CA	5.26	128.11	120.79
1	gi	86	VAL	N-CA-C	-5.26	100.54	108.12
1	gs	227	LYS	N-CA-C	5.26	116.70	111.07
1	gt	84	HIS	CB-CA-C	-5.26	104.96	110.33
1	gy	202	LEU	CA-C-O	-5.26	114.97	120.55
1	1E	182	LYS	N-CA-C	5.26	117.02	111.28
1	gJ	186	THR	CA-C-O	5.26	126.35	120.82
1	1F	128	GLU	CB-CA-C	-5.26	102.39	110.81
1	gQ	124	ILE	CB-CG1-CD1	-5.26	102.75	113.80
1	1G	159	GLU	N-CA-C	5.26	116.28	109.65
1	gZ	113	GLU	N-CA-C	5.26	117.02	111.28
1	h1	14	ALA	N-CA-C	5.26	118.07	110.28
1	h2	201	ILE	O-C-N	-5.26	116.41	121.83
1	h9	116	GLY	N-CA-C	5.26	119.05	112.73
1	1I	103	ASP	CA-C-N	5.26	127.90	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1I	103	ASP	C-N-CA	5.26	127.90	120.42
1	hi	177	ALA	N-CA-C	5.26	122.01	110.80
1	hn	16	SER	CA-C-N	5.26	124.88	119.56
1	hn	16	SER	C-N-CA	5.26	124.88	119.56
1	hr	129	ILE	CA-C-N	5.26	127.33	120.28
1	hr	129	ILE	C-N-CA	5.26	127.33	120.28
1	hy	35	GLU	N-CA-C	-5.26	106.81	113.18
1	hK	105	ALA	N-CA-C	-5.26	106.70	113.02
1	hL	223	GLY	CA-C-N	-5.26	113.26	119.84
1	hL	223	GLY	C-N-CA	-5.26	113.26	119.84
1	hQ	169	TYR	CB-CG-CD2	-5.26	112.91	120.80
1	i2	209	ALA	N-CA-CB	-5.26	102.29	110.29
1	ic	67	GLN	OE1-CD-NE2	-5.26	117.33	122.60
1	id	36	VAL	CB-CA-C	-5.26	103.73	112.26
1	id	62	HIS	N-CA-C	5.26	118.85	111.74
1	ig	168	PHE	O-C-N	5.26	127.71	122.08
1	ir	55	MET	CG-SD-CE	-5.26	89.32	100.90
1	iz	12	HIS	N-CA-C	5.26	118.07	110.28
1	iA	55	MET	O-C-N	-5.26	116.15	122.15
1	iI	112	GLN	N-CA-C	5.26	117.02	111.28
1	iT	195	ASN	OD1-CG-ND2	-5.26	117.33	122.60
1	1T	226	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	j2	187	GLU	N-CA-C	5.26	117.93	111.82
1	j5	81	ASP	CA-C-O	-5.26	114.97	120.55
1	jg	84	HIS	ND1-CE1-NE2	5.26	113.67	108.40
1	jg	160	PRO	N-CA-CB	5.26	108.22	103.33
1	ji	175	GLU	O-C-N	5.26	129.48	122.43
1	ju	53	ASN	O-C-N	-5.26	116.54	122.12
1	jF	115	ILE	CA-CB-CG1	5.26	119.35	110.40
1	jG	176	GLN	CA-C-O	5.26	124.84	119.05
1	jP	59	VAL	CB-CA-C	5.26	118.67	111.88
1	jU	179	GLN	N-CA-C	5.26	117.02	111.28
1	jX	26	VAL	N-CA-CB	5.26	116.71	110.55
1	ke	41	SER	CA-C-N	5.26	127.33	120.28
1	ke	41	SER	C-N-CA	5.26	127.33	120.28
1	ky	90	PRO	CA-C-N	5.26	129.17	121.80
1	ky	90	PRO	C-N-CA	5.26	129.17	121.80
1	kB	13	GLN	O-C-N	-5.26	116.53	123.21
1	kC	215	MET	CA-C-N	5.26	131.23	122.54
1	kC	215	MET	C-N-CA	5.26	131.23	122.54
1	23	58	THR	O-C-N	-5.26	116.06	122.22
1	kJ	142	VAL	CA-C-O	5.26	126.38	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kQ	114	GLN	N-CA-C	5.26	116.70	111.07
1	kT	214	MET	O-C-N	-5.26	115.28	122.33
1	ln	92	GLU	O-C-N	-5.26	115.53	121.43
1	lr	200	THR	CA-C-N	5.26	127.19	120.56
1	lr	200	THR	C-N-CA	5.26	127.19	120.56
1	lt	194	ALA	N-CA-C	5.26	116.72	110.19
1	lw	84	HIS	O-C-N	-5.26	116.02	121.28
1	lw	148	THR	O-C-N	-5.26	116.45	122.93
1	lJ	76	GLU	CA-C-N	5.26	127.34	120.28
1	lJ	76	GLU	C-N-CA	5.26	127.34	120.28
1	lM	50	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	lM	127	GLY	O-C-N	5.26	127.28	122.17
1	2d	67	GLN	N-CA-C	5.26	117.43	111.11
1	2n	87	HIS	CA-C-O	-5.26	115.40	121.19
1	2r	220	GLY	O-C-N	-5.26	116.20	122.31
1	2E	137	GLY	O-C-N	-5.26	117.13	122.18
1	2F	87	HIS	CE1-NE2-CD2	-5.26	103.73	109.00
1	2H	211	LEU	N-CA-C	5.26	117.43	111.11
1	2M	80	TRP	CZ3-CH2-CZ2	-5.26	114.66	121.50
1	2M	89	GLY	CA-C-O	-5.26	113.99	121.52
1	2T	143	ARG	NH1-CZ-NH2	-5.26	112.45	119.30
1	2Y	193	ASN	CB-CA-C	5.26	119.49	110.01
1	3b	143	ARG	N-CA-CB	5.26	118.04	110.20
1	3f	141	ILE	CB-CA-C	5.26	118.62	111.88
1	3h	121	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	3k	45	GLU	CA-C-O	-5.26	114.47	120.58
1	3k	86	VAL	CA-CB-CG2	5.26	119.35	110.40
1	3m	179	GLN	O-C-N	-5.26	116.54	122.12
1	3G	80	TRP	CD2-CE2-CZ2	-5.26	117.14	122.40
1	3H	184	TRP	CA-C-O	5.26	126.35	120.82
1	3U	97	ARG	O-C-N	-5.26	116.65	122.86
1	3X	143	ARG	NE-CZ-NH1	5.26	126.77	121.50
1	43	212	GLU	N-CA-C	5.26	117.02	111.28
1	4d	167	ARG	NE-CZ-NH1	5.26	126.77	121.50
1	4m	87	HIS	N-CA-C	5.26	117.86	110.23
1	4z	218	CYS	N-CA-C	5.26	122.02	110.80
1	4D	51	ASP	CA-C-O	5.26	126.00	120.42
1	4G	84	HIS	CE1-NE2-CD2	-5.26	103.73	109.00
1	4S	54	THR	CA-C-O	5.26	126.13	120.55
1	4S	135	ILE	CA-CB-CG1	5.26	119.35	110.40
1	59	174	ALA	O-C-N	5.26	127.70	122.12
1	5h	23	TRP	CA-C-N	5.26	127.67	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5h	23	TRP	C-N-CA	5.26	127.67	120.46
1	5l	196	PRO	N-CA-C	5.26	120.45	113.40
1	5L	120	HIS	N-CA-CB	-5.26	102.91	110.44
1	5P	175	GLU	CA-C-O	5.26	126.71	120.66
1	5Q	224	PRO	N-CA-CB	-5.26	98.45	103.19
1	5R	20	LEU	CA-C-N	5.26	127.65	120.54
1	5R	20	LEU	C-N-CA	5.26	127.65	120.54
1	5U	146	SER	N-CA-CB	5.26	118.60	110.12
1	5W	33	SER	CA-C-N	5.26	126.42	119.84
1	5W	33	SER	C-N-CA	5.26	126.42	119.84
1	64	193	ASN	CA-C-O	5.26	125.65	119.28
1	69	47	ALA	CA-C-N	5.26	129.46	121.03
1	69	47	ALA	C-N-CA	5.26	129.46	121.03
1	6y	69	LEU	N-CA-C	5.26	117.02	111.28
1	6B	129	ILE	O-C-N	-5.26	116.76	121.87
1	6I	52	LEU	CA-C-N	5.26	127.33	120.28
1	6I	52	LEU	C-N-CA	5.26	127.33	120.28
1	6P	187	GLU	CA-C-O	5.26	126.35	120.82
1	6U	176	GLN	CA-C-N	5.26	128.34	120.87
1	6U	176	GLN	C-N-CA	5.26	128.34	120.87
1	70	156	GLY	CA-C-O	-5.26	113.99	121.52
1	78	161	PHE	CA-CB-CG	-5.26	108.54	113.80
1	7f	24	VAL	CA-C-N	5.26	128.31	120.31
1	7f	24	VAL	C-N-CA	5.26	128.31	120.31
1	7g	226	HIS	CG-CD2-NE2	5.26	112.47	107.20
1	7r	203	LYS	CA-C-O	-5.26	114.97	120.55
1	7B	119	THR	CA-C-N	5.26	129.77	120.87
1	7B	119	THR	C-N-CA	5.26	129.77	120.87
1	7C	27	VAL	O-C-N	-5.26	116.76	121.87
1	7I	84	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	7I	189	LEU	N-CA-CB	5.26	117.95	110.16
1	7J	81	ASP	CA-C-O	5.26	126.13	120.55
1	7L	129	ILE	CA-CB-CG1	5.26	119.35	110.40
1	7Q	104	ILE	CB-CA-C	5.26	119.25	112.14
1	7R	181	VAL	CA-CB-CG2	5.26	119.35	110.40
1	7T	167	ARG	N-CA-C	5.26	117.10	111.36
1	7Y	84	HIS	N-CA-C	5.26	119.91	109.01
1	7Z	96	MET	CA-C-O	5.26	127.51	120.98
1	80	4	GLN	CA-C-O	5.26	125.93	120.30
1	80	76	GLU	N-CA-C	5.26	117.02	111.28
1	81	199	LYS	CA-C-N	5.26	127.33	120.28
1	81	199	LYS	C-N-CA	5.26	127.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	83	98	GLU	N-CA-C	5.26	117.06	109.48
1	84	26	VAL	N-CA-CB	5.26	117.70	110.54
1	87	221	VAL	N-CA-CB	5.26	116.35	110.51
1	8a	110	THR	CA-CB-OG1	5.26	117.50	109.60
1	8y	58	THR	CA-C-N	5.26	130.53	121.63
1	8y	58	THR	C-N-CA	5.26	130.53	121.63
1	8y	65	ALA	CA-C-N	5.26	127.33	120.28
1	8y	65	ALA	C-N-CA	5.26	127.33	120.28
1	8A	67	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	8L	13	GLN	O-C-N	-5.26	116.76	123.24
1	8L	170	LYS	N-CA-C	5.26	117.93	111.82
1	8M	97	ARG	CA-C-N	5.26	127.72	120.67
1	8M	97	ARG	C-N-CA	5.26	127.72	120.67
1	8W	50	GLN	CB-CG-CD	5.26	121.55	112.60
1	8Z	12	HIS	CB-CG-ND1	5.26	130.60	122.70
1	93	79	GLU	CA-C-N	5.26	127.28	120.44
1	93	79	GLU	C-N-CA	5.26	127.28	120.44
1	9h	223	GLY	CA-C-N	5.26	126.42	119.84
1	9h	223	GLY	C-N-CA	5.26	126.42	119.84
1	9i	80	TRP	CE2-CD2-CE3	5.26	124.06	118.80
1	9i	141	ILE	N-CA-C	5.26	115.47	110.42
1	9o	200	THR	N-CA-C	5.26	117.93	111.82
1	9u	102	SER	N-CA-C	5.26	118.96	112.54
1	9B	7	GLN	N-CA-C	5.26	119.46	112.30
1	9E	86	VAL	O-C-N	-5.26	116.95	122.95
1	9E	112	GLN	CG-CD-NE2	5.26	124.30	116.40
1	9U	153	ILE	CB-CA-C	5.26	120.17	111.59
1	9X	96	MET	CG-SD-CE	-5.26	89.32	100.90
1	ac	12	HIS	CA-CB-CG	5.26	119.06	113.80
1	ad	27	VAL	O-C-N	5.26	127.25	121.83
1	am	80	TRP	O-C-N	-5.26	116.61	122.09
1	as	203	LYS	CA-C-O	5.26	126.12	120.70
1	at	187	GLU	N-CA-C	5.26	116.88	111.03
1	av	223	GLY	CA-C-N	5.26	125.18	119.76
1	av	223	GLY	C-N-CA	5.26	125.18	119.76
1	ax	86	VAL	CA-C-O	5.26	125.92	120.39
1	aA	61	GLY	CA-C-O	-5.26	117.02	122.28
1	aB	12	HIS	CG-ND1-CE1	-5.26	100.35	109.30
1	aL	229	ARG	CA-C-N	5.26	131.45	121.97
1	aL	229	ARG	C-N-CA	5.26	131.45	121.97
1	aY	73	ILE	N-CA-CB	5.26	117.70	110.54
1	aZ	79	GLU	CB-CG-CD	-5.26	103.65	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	33	SER	CA-C-N	5.26	126.42	119.84
1	ba	33	SER	C-N-CA	5.26	126.42	119.84
1	bn	31	ALA	N-CA-C	5.26	117.70	111.33
1	18	58	THR	N-CA-C	-5.26	106.54	113.17
1	bI	133	TRP	N-CA-C	5.26	117.10	111.36
1	bV	40	PHE	CA-CB-CG	-5.26	108.53	113.80
1	bV	226	HIS	CA-C-O	5.26	127.30	121.56
1	c2	219	GLN	OE1-CD-NE2	-5.26	117.33	122.60
1	c6	119	THR	N-CA-CB	5.26	118.39	110.65
1	cg	179	GLN	CA-C-N	5.26	127.28	120.44
1	cg	179	GLN	C-N-CA	5.26	127.28	120.44
1	ck	76	GLU	N-CA-C	5.26	117.10	111.36
1	cm	85	PRO	N-CA-C	5.26	123.31	112.47
1	cr	129	ILE	O-C-N	-5.26	116.43	121.90
1	cF	11	VAL	N-CA-CB	5.26	119.65	110.96
1	1g	143	ARG	NH1-CZ-NH2	-5.26	112.46	119.30
1	cN	153	ILE	CA-CB-CG2	-5.26	101.55	110.50
1	cR	44	SER	O-C-N	-5.26	115.99	122.20
1	cW	43	LEU	CA-C-O	5.26	126.02	119.12
1	cX	7	GLN	CA-C-N	5.26	131.73	121.41
1	cX	7	GLN	C-N-CA	5.26	131.73	121.41
1	d3	118	MET	N-CA-CB	-5.26	102.23	110.44
1	d3	133	TRP	CA-C-N	5.26	127.39	120.60
1	d3	133	TRP	C-N-CA	5.26	127.39	120.60
1	d7	209	ALA	CA-C-O	5.26	127.12	121.44
1	dc	134	ILE	CB-CA-C	5.26	119.25	112.14
1	du	166	ASP	CA-CB-CG	5.26	117.86	112.60
1	dw	83	LEU	CA-C-N	5.26	127.71	120.39
1	dw	83	LEU	C-N-CA	5.26	127.71	120.39
1	dz	162	ARG	CB-CA-C	-5.26	102.39	110.81
1	dB	140	LYS	CA-C-N	5.26	127.67	120.46
1	dB	140	LYS	C-N-CA	5.26	127.67	120.46
1	dF	50	GLN	O-C-N	-5.26	116.54	122.12
1	1m	8	GLY	CA-C-N	5.26	129.87	121.66
1	1m	8	GLY	C-N-CA	5.26	129.87	121.66
1	dL	10	MET	CA-C-N	5.26	130.92	122.50
1	dL	10	MET	C-N-CA	5.26	130.92	122.50
1	dO	92	GLU	O-C-N	-5.26	117.06	121.38
1	dR	69	LEU	N-CA-C	-5.26	105.62	111.36
1	dU	196	PRO	N-CA-CB	5.26	108.78	103.25
1	e7	7	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	e7	37	ILE	O-C-N	5.26	127.10	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ej	208	ALA	O-C-N	-5.26	116.00	122.05
1	et	149	SER	CA-C-N	5.26	128.79	120.47
1	et	149	SER	C-N-CA	5.26	128.79	120.47
1	ez	120	HIS	N-CA-C	5.26	117.92	110.50
1	1s	12	HIS	N-CA-C	5.26	117.86	109.96
1	eS	143	ARG	CA-CB-CG	5.26	124.63	114.10
1	eV	73	ILE	CA-C-N	5.26	127.33	120.28
1	eV	73	ILE	C-N-CA	5.26	127.33	120.28
1	f7	121	ASN	CA-CB-CG	5.26	117.86	112.60
1	1v	193	ASN	CA-CB-CG	-5.26	107.33	112.60
1	fj	154	ARG	O-C-N	-5.26	116.47	122.89
1	fk	12	HIS	CB-CG-CD2	-5.26	124.36	131.20
1	fo	180	GLU	O-C-N	-5.26	116.15	122.15
1	fw	141	ILE	CA-CB-CG1	5.26	119.35	110.40
1	fy	115	ILE	O-C-N	-5.26	116.76	121.87
1	fL	222	GLY	O-C-N	-5.26	115.86	122.70
1	fP	137	GLY	CA-C-O	-5.26	115.33	120.75
1	fV	121	ASN	CA-CB-CG	-5.26	107.33	112.60
1	1A	217	ALA	CA-C-O	-5.26	114.92	120.92
1	fZ	226	HIS	CG-CD2-NE2	5.26	112.46	107.20
1	g1	168	PHE	CA-CB-CG	5.26	119.06	113.80
1	0	211	LEU	CA-C-O	5.26	126.13	120.55
1	f	124	ILE	O-C-N	-5.26	116.99	121.57
1	s	74	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	t	34	PRO	CA-C-O	-5.26	111.02	120.60
1	y	5	ASN	CA-CB-CG	-5.26	107.34	112.60
1	E	97	ARG	CA-C-O	-5.26	115.97	121.55
1	N	175	GLU	CA-CB-CG	5.26	124.63	114.10
1	Q	139	ASN	CB-CG-ND2	-5.26	108.50	116.40
1	T	165	VAL	CA-C-N	5.26	127.28	120.44
1	T	165	VAL	C-N-CA	5.26	127.28	120.44
1	gb	146	SER	N-CA-C	5.26	121.44	109.81
1	1C	167	ARG	N-CA-C	5.26	116.70	111.07
1	gs	126	VAL	N-CA-C	5.26	115.99	110.62
1	gD	26	VAL	CA-CB-CG1	5.26	119.35	110.40
1	gG	100	ARG	O-C-N	-5.26	116.85	122.85
1	gV	84	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	1J	139	ASN	CB-CA-C	-5.26	102.05	110.79
1	ht	117	TRP	CA-C-O	-5.26	114.97	120.55
1	hH	113	GLU	O-C-N	-5.26	116.54	122.12
1	hJ	143	ARG	NE-CZ-NH2	5.26	123.94	119.20
1	iG	84	HIS	ND1-CE1-NE2	5.26	113.66	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iR	80	TRP	CA-CB-CG	5.26	123.60	113.60
1	iT	68	MET	CA-C-N	5.26	127.33	120.28
1	iT	68	MET	C-N-CA	5.26	127.33	120.28
1	j2	142	VAL	O-C-N	-5.26	115.16	122.05
1	1U	10	MET	O-C-N	-5.26	115.59	122.59
1	jr	54	THR	CA-C-N	5.26	127.64	120.54
1	jr	54	THR	C-N-CA	5.26	127.64	120.54
1	jv	208	ALA	CA-C-N	5.26	128.58	121.05
1	jv	208	ALA	C-N-CA	5.26	128.58	121.05
1	jJ	14	ALA	O-C-N	-5.26	116.65	122.86
1	jR	167	ARG	CB-CA-C	-5.26	102.39	110.81
1	kb	174	ALA	CA-C-O	5.26	125.15	119.15
1	21	65	ALA	N-CA-CB	-5.26	102.37	110.16
1	kq	228	ALA	CA-C-O	5.26	126.92	120.92
1	kP	128	GLU	N-CA-C	5.26	117.10	111.36
1	ln	192	GLN	N-CA-CB	-5.26	102.38	110.12
1	28	231	LEU	CD1-CG-CD2	-5.26	99.22	110.80
1	ls	229	ARG	CA-CB-CG	5.26	124.63	114.10
1	lw	14	ALA	N-CA-C	5.26	122.01	110.80
1	lx	157	PRO	N-CA-C	5.26	120.75	113.65
1	lA	194	ALA	N-CA-C	5.26	116.72	110.19
1	lB	159	GLU	CA-CB-CG	-5.26	103.57	114.10
1	34	196	PRO	O-C-N	-5.26	115.53	122.64
1	3c	144	MET	O-C-N	-5.26	116.15	122.15
1	3h	159	GLU	N-CA-C	5.26	116.33	109.64
1	3A	136	LEU	O-C-N	-5.26	116.62	122.09
1	45	203	LYS	N-CA-CB	5.26	117.64	110.01
1	48	135	ILE	CA-C-N	5.26	127.33	120.28
1	48	135	ILE	C-N-CA	5.26	127.33	120.28
1	4n	167	ARG	CA-C-N	5.26	127.33	120.28
1	4n	167	ARG	C-N-CA	5.26	127.33	120.28
1	4n	173	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	4A	184	TRP	CD2-CE3-CZ3	-5.26	111.76	118.60
1	4B	84	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	53	5	ASN	CB-CG-ND2	-5.26	108.51	116.40
1	54	63	GLN	N-CA-C	5.26	117.02	111.28
1	57	154	ARG	NH1-CZ-NH2	-5.26	112.46	119.30
1	5b	130	TYR	O-C-N	-5.26	116.54	122.12
1	5z	11	VAL	CA-C-N	5.26	128.18	120.71
1	5z	11	VAL	C-N-CA	5.26	128.18	120.71
1	5C	202	LEU	CB-CA-C	-5.26	101.90	110.85
1	5G	41	SER	CA-C-N	5.26	128.31	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	41	SER	C-N-CA	5.26	128.31	120.31
1	5I	206	GLY	O-C-N	-5.26	116.51	121.77
1	5N	100	ARG	NE-CZ-NH2	-5.26	114.46	119.20
1	5S	129	ILE	N-CA-C	5.26	115.99	110.62
1	6d	167	ARG	NE-CZ-NH2	-5.26	114.46	119.20
1	6u	131	LYS	CA-CB-CG	5.26	124.62	114.10
1	6y	95	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	6A	128	GLU	O-C-N	-5.26	116.54	122.12
1	6G	5	ASN	CA-C-O	5.26	126.35	120.82
1	6L	62	HIS	CB-CG-CD2	-5.26	124.36	131.20
1	6O	114	GLN	O-C-N	5.26	127.56	122.09
1	6V	75	GLU	CA-C-O	5.26	126.53	120.90
1	73	150	ILE	O-C-N	-5.26	116.73	121.89
1	74	74	ASN	O-C-N	-5.26	115.39	122.23
1	7u	164	TYR	CB-CA-C	5.26	119.80	110.85
1	7z	57	ASN	CA-CB-CG	5.26	117.86	112.60
1	7D	187	GLU	CA-C-N	5.26	128.89	121.79
1	7D	187	GLU	C-N-CA	5.26	128.89	121.79
1	7V	133	TRP	CA-C-N	5.26	127.67	120.46
1	7V	133	TRP	C-N-CA	5.26	127.67	120.46
1	7Z	215	MET	CA-C-N	5.26	130.81	122.60
1	7Z	215	MET	C-N-CA	5.26	130.81	122.60
1	88	112	GLN	CG-CD-NE2	-5.26	108.51	116.40
1	8l	222	GLY	CA-C-N	5.26	130.13	121.87
1	8l	222	GLY	C-N-CA	5.26	130.13	121.87
1	8m	29	GLU	CA-C-O	5.26	125.84	119.31
1	8m	39	MET	CA-C-O	5.26	126.12	120.70
1	8r	153	ILE	N-CA-CB	5.26	117.17	112.06
1	8s	33	SER	CA-C-N	5.26	125.32	119.32
1	8s	33	SER	C-N-CA	5.26	125.32	119.32
1	8w	3	VAL	CA-C-N	5.26	131.59	121.54
1	8w	3	VAL	C-N-CA	5.26	131.59	121.54
1	8U	200	THR	CA-C-O	5.26	126.05	120.10
1	96	20	LEU	N-CA-C	5.26	117.43	111.11
1	9v	37	ILE	CA-C-N	5.26	126.42	119.84
1	9v	37	ILE	C-N-CA	5.26	126.42	119.84
1	9P	74	ASN	N-CA-C	-5.26	106.70	113.23
1	9Z	140	LYS	CA-CB-CG	5.26	124.62	114.10
1	a1	45	GLU	N-CA-C	5.26	118.20	109.46
1	a3	111	LEU	O-C-N	-5.26	116.54	122.12
1	10	91	ILE	N-CA-C	5.26	117.63	108.95
1	ao	199	LYS	O-C-N	-5.26	116.54	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12	82	ARG	N-CA-C	5.26	117.10	111.36
1	az	26	VAL	CA-CB-CG2	5.26	119.35	110.40
1	aP	33	SER	O-C-N	-5.26	115.64	121.53
1	aP	82	ARG	N-CA-C	-5.26	104.46	112.04
1	bc	62	HIS	CA-CB-CG	-5.26	108.54	113.80
1	bl	45	GLU	N-CA-C	5.26	117.94	110.10
1	bn	82	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	bR	15	ILE	O-C-N	-5.26	117.03	122.66
1	cj	104	ILE	N-CA-C	-5.26	104.51	111.09
1	cq	178	SER	N-CA-CB	5.26	118.29	110.29
1	cI	219	GLN	N-CA-C	5.26	118.20	109.46
1	cO	10	MET	O-C-N	-5.26	115.98	122.82
1	cX	39	MET	CA-C-O	5.26	126.13	120.55
1	d8	25	LYS	CB-CG-CD	5.26	123.41	111.30
1	dm	140	LYS	CB-CG-CD	5.26	123.41	111.30
1	dx	113	GLU	CB-CG-CD	5.26	121.55	112.60
1	dO	227	LYS	CB-CG-CD	5.26	123.41	111.30
1	e7	90	PRO	CA-C-N	5.26	131.44	121.97
1	e7	90	PRO	C-N-CA	5.26	131.44	121.97
1	ec	143	ARG	N-CA-C	5.26	116.70	111.07
1	ej	96	MET	CA-CB-CG	-5.26	103.57	114.10
1	el	117	TRP	CA-C-N	5.26	127.76	120.29
1	el	117	TRP	C-N-CA	5.26	127.76	120.29
1	en	142	VAL	CA-C-N	5.26	127.28	120.44
1	en	142	VAL	C-N-CA	5.26	127.28	120.44
1	es	80	TRP	CB-CA-C	5.26	119.14	110.88
1	ev	161	PHE	CA-C-N	5.26	127.76	120.29
1	ev	161	PHE	C-N-CA	5.26	127.76	120.29
1	eI	107	THR	N-CA-C	5.26	116.70	111.07
1	eO	210	THR	N-CA-CB	5.26	117.69	109.85
1	f7	9	GLN	OE1-CD-NE2	5.26	127.86	122.60
1	fa	128	GLU	CB-CG-CD	5.26	121.55	112.60
1	fl	17	PRO	O-C-N	-5.26	115.43	122.22
1	g2	18	ARG	O-C-N	-5.26	115.28	122.33
1	i	62	HIS	CA-CB-CG	5.26	119.06	113.80
1	j	28	GLU	O-C-N	-5.26	115.39	122.23
1	x	143	ARG	N-CA-C	5.26	117.10	111.36
1	F	108	THR	N-CA-CB	5.26	118.56	110.61
1	V	166	ASP	CB-CA-C	5.26	119.14	110.88
1	X	51	ASP	O-C-N	5.26	127.49	122.07
1	gf	21	ASN	CB-CA-C	-5.26	102.62	110.88
1	gi	120	HIS	ND1-CE1-NE2	5.26	113.66	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1D	23	TRP	CD2-CE3-CZ3	5.26	125.44	118.60
1	gu	27	VAL	CB-CA-C	5.26	119.24	112.14
1	gU	32	PHE	CA-C-O	5.26	126.04	119.78
1	hg	164	TYR	CA-CB-CG	5.26	123.37	113.90
1	hh	37	ILE	CA-C-N	5.26	124.59	118.85
1	hh	37	ILE	C-N-CA	5.26	124.59	118.85
1	hh	140	LYS	CA-C-O	-5.26	115.30	120.82
1	hj	166	ASP	CA-C-N	5.26	127.33	120.28
1	hj	166	ASP	C-N-CA	5.26	127.33	120.28
1	hs	129	ILE	CA-CB-CG1	-5.26	101.45	110.40
1	hx	35	GLU	O-C-N	-5.26	114.94	122.41
1	hx	141	ILE	N-CA-CB	5.26	117.31	110.57
1	hz	16	SER	N-CA-CB	5.26	118.11	110.32
1	hC	116	GLY	O-C-N	-5.26	117.13	122.18
1	hN	168	PHE	O-C-N	-5.26	116.65	122.07
1	hO	134	ILE	CA-C-N	5.26	127.95	120.53
1	hO	134	ILE	C-N-CA	5.26	127.95	120.53
1	hP	28	GLU	N-CA-C	5.26	117.42	111.11
1	hP	226	HIS	N-CA-C	5.26	118.97	111.92
1	hV	23	TRP	CA-C-N	5.26	127.95	120.53
1	hV	23	TRP	C-N-CA	5.26	127.95	120.53
1	i0	39	MET	CG-SD-CE	-5.26	89.33	100.90
1	i6	228	ALA	N-CA-C	5.26	119.32	113.01
1	i7	57	ASN	CA-C-N	5.26	127.59	120.38
1	i7	57	ASN	C-N-CA	5.26	127.59	120.38
1	ia	113	GLU	N-CA-C	5.26	117.92	111.82
1	if	28	GLU	CA-C-O	5.26	126.00	120.42
1	ig	75	GLU	CA-C-O	-5.26	115.30	120.82
1	ii	41	SER	N-CA-CB	5.26	117.85	110.12
1	1P	25	LYS	N-CA-CB	5.26	117.85	110.12
1	iy	102	SER	CA-C-O	5.26	126.05	120.10
1	iG	14	ALA	N-CA-C	5.26	117.92	110.50
1	1R	167	ARG	NH1-CZ-NH2	-5.26	112.46	119.30
1	iR	96	MET	N-CA-C	5.26	117.20	108.20
1	iU	42	ALA	CA-C-N	5.26	127.28	120.44
1	iU	42	ALA	C-N-CA	5.26	127.28	120.44
1	iV	53	ASN	CA-C-N	5.26	127.33	120.28
1	iV	53	ASN	C-N-CA	5.26	127.33	120.28
1	iW	158	LYS	CB-CA-C	-5.26	102.50	111.02
1	iY	64	ALA	N-CA-CB	-5.26	102.12	110.28
1	1T	80	TRP	CA-C-O	5.26	126.13	120.55
1	j8	38	PRO	N-CA-C	5.26	120.45	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jh	122	PRO	CA-C-N	5.26	125.02	119.76
1	jh	122	PRO	C-N-CA	5.26	125.02	119.76
1	jk	127	GLY	N-CA-C	5.26	119.50	112.77
1	jm	3	VAL	N-CA-C	5.26	116.95	108.85
1	jt	135	ILE	CB-CA-C	5.26	118.70	111.97
1	ju	181	VAL	CB-CA-C	5.26	118.70	111.97
1	jR	20	LEU	N-CA-C	5.26	116.70	111.07
1	jV	33	SER	CA-CB-OG	5.26	121.62	111.10
1	jY	52	LEU	N-CA-C	5.26	116.70	111.07
1	k2	216	THR	N-CA-CB	5.26	118.40	110.30
1	k9	225	GLY	O-C-N	-5.26	116.65	122.60
1	kg	23	TRP	CA-C-N	5.26	127.19	120.56
1	kg	23	TRP	C-N-CA	5.26	127.19	120.56
1	kj	120	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	kv	103	ASP	N-CA-CB	5.26	117.64	110.01
1	kU	230	VAL	CA-CB-CG1	-5.26	101.46	110.40
1	kZ	229	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	l4	91	ILE	O-C-N	-5.26	117.12	122.75
1	la	144	MET	CG-SD-CE	-5.26	89.33	100.90
1	le	84	HIS	O-C-N	-5.26	115.52	121.36
1	lk	183	ASN	CA-C-O	5.26	126.13	120.55
1	lo	51	ASP	CA-CB-CG	-5.26	107.34	112.60
1	lw	165	VAL	N-CA-C	5.26	115.99	110.62
1	lz	112	GLN	CA-CB-CG	5.26	124.62	114.10
1	lE	1	PRO	N-CD-CG	5.26	111.09	103.20
1	lK	220	GLY	O-C-N	-5.26	116.92	122.97
1	2o	22	ALA	O-C-N	-5.26	116.15	122.15
1	2B	96	MET	CA-C-O	5.26	127.81	121.65
1	2B	224	PRO	CA-C-N	5.26	129.93	120.77
1	2B	224	PRO	C-N-CA	5.26	129.93	120.77
1	2C	201	ILE	CA-CB-CG2	5.26	119.45	110.50
1	2G	5	ASN	O-C-N	-5.26	115.25	122.46
1	2L	140	LYS	O-C-N	-5.26	116.15	122.15
1	2V	183	ASN	CA-C-O	-5.26	114.97	120.55
1	36	229	ARG	NE-CZ-NH2	-5.26	114.46	119.20
1	38	12	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	3b	99	PRO	CB-CA-C	5.26	116.29	111.87
1	3g	5	ASN	N-CA-C	-5.26	106.92	113.55
1	3i	95	GLN	O-C-N	-5.26	117.05	122.94
1	3i	182	LYS	N-CA-C	5.26	117.09	111.36
1	3q	69	LEU	CA-C-O	5.26	126.34	120.82
1	3I	229	ARG	NE-CZ-NH1	5.26	126.76	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3J	210	THR	O-C-N	-5.26	116.79	122.79
1	3K	163	ASP	CA-C-N	5.26	127.64	120.54
1	3K	163	ASP	C-N-CA	5.26	127.64	120.54
1	3P	68	MET	CA-C-N	5.26	127.28	120.44
1	3P	68	MET	C-N-CA	5.26	127.28	120.44
1	3Q	50	GLN	CB-CG-CD	5.26	121.55	112.60
1	3T	87	HIS	CA-C-N	5.26	128.70	120.75
1	3T	87	HIS	C-N-CA	5.26	128.70	120.75
1	3T	158	LYS	N-CA-C	5.26	116.70	111.07
1	3X	185	MET	N-CA-C	-5.26	106.12	112.54
1	3Y	135	ILE	CB-CA-C	5.26	119.24	112.14
1	3Y	187	GLU	N-CA-C	5.26	117.09	111.36
1	40	173	ARG	O-C-N	-5.26	116.06	122.22
1	47	182	LYS	N-CA-C	5.26	117.02	111.28
1	4c	160	PRO	CA-C-N	5.26	131.59	121.54
1	4c	160	PRO	C-N-CA	5.26	131.59	121.54
1	4d	112	GLN	N-CA-CB	-5.26	102.12	110.22
1	4i	54	THR	CA-C-N	5.26	127.28	120.44
1	4i	54	THR	C-N-CA	5.26	127.28	120.44
1	4p	162	ARG	CA-C-O	5.26	126.09	120.20
1	4r	33	SER	CA-C-N	5.26	126.42	119.84
1	4r	33	SER	C-N-CA	5.26	126.42	119.84
1	4y	229	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	4U	80	TRP	O-C-N	-5.26	116.62	122.09
1	4U	212	GLU	N-CA-C	-5.26	105.44	111.07
1	4Y	202	LEU	N-CA-C	5.26	117.76	111.71
1	4Z	27	VAL	CA-C-O	5.26	126.15	120.47
1	57	58	THR	CA-C-O	-5.26	113.92	119.97
1	58	96	MET	O-C-N	-5.26	116.46	122.93
1	5z	171	THR	CA-C-N	5.26	127.33	120.28
1	5z	171	THR	C-N-CA	5.26	127.33	120.28
1	5J	187	GLU	CA-C-N	5.26	127.95	121.64
1	5J	187	GLU	C-N-CA	5.26	127.95	121.64
1	5Q	86	VAL	CA-CB-CG2	-5.26	101.45	110.40
1	5S	82	ARG	CD-NE-CZ	5.26	131.77	124.40
1	5T	119	THR	CA-CB-OG1	5.26	117.49	109.60
1	5X	160	PRO	O-C-N	-5.26	116.21	122.89
1	6d	44	SER	O-C-N	-5.26	115.79	122.26
1	6s	208	ALA	O-C-N	-5.26	115.76	122.34
1	6u	172	LEU	O-C-N	-5.26	116.06	122.22
1	6v	70	LYS	N-CA-C	5.26	117.42	111.11
1	6v	135	ILE	O-C-N	-5.26	116.41	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6y	160	PRO	CB-CA-C	5.26	117.87	110.98
1	6A	187	GLU	CB-CG-CD	5.26	121.55	112.60
1	6D	39	MET	CA-C-N	5.26	127.28	120.44
1	6D	39	MET	C-N-CA	5.26	127.28	120.44
1	6I	121	ASN	O-C-N	5.26	126.43	121.38
1	6M	35	GLU	CA-C-O	5.26	125.84	119.11
1	6P	163	ASP	CA-C-N	5.26	127.28	120.44
1	6P	163	ASP	C-N-CA	5.26	127.28	120.44
1	6R	48	THR	CA-C-O	-5.26	115.08	120.87
1	6R	66	MET	CA-C-N	5.26	127.28	120.44
1	6R	66	MET	C-N-CA	5.26	127.28	120.44
1	6Y	193	ASN	O-C-N	-5.26	115.88	122.35
1	7j	214	MET	CA-CB-CG	5.26	124.62	114.10
1	7t	187	GLU	N-CA-CB	-5.26	102.38	110.01
1	7B	210	THR	CA-C-N	5.26	127.86	120.28
1	7B	210	THR	C-N-CA	5.26	127.86	120.28
1	7F	86	VAL	O-C-N	-5.26	117.03	122.66
1	7J	54	THR	O-C-N	-5.26	116.62	122.09
1	7Q	216	THR	CA-CB-OG1	5.26	117.49	109.60
1	7S	29	GLU	N-CA-C	5.26	119.83	113.41
1	7S	129	ILE	CA-C-O	-5.26	115.59	121.17
1	7W	206	GLY	N-CA-C	5.26	123.07	112.34
1	7X	58	THR	CA-CB-CG2	-5.26	101.56	110.50
1	80	168	PHE	CA-C-O	-5.26	115.30	120.82
1	84	173	ARG	CA-C-N	5.26	127.76	120.29
1	84	173	ARG	C-N-CA	5.26	127.76	120.29
1	8a	228	ALA	CB-CA-C	-5.26	102.62	110.88
1	8i	87	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	8o	153	ILE	CA-CB-CG2	5.26	119.44	110.50
1	8p	64	ALA	CA-C-N	5.26	127.33	120.28
1	8p	64	ALA	C-N-CA	5.26	127.33	120.28
1	8H	216	THR	O-C-N	-5.26	115.11	122.37
1	8I	160	PRO	CA-C-N	5.26	127.33	120.28
1	8I	160	PRO	C-N-CA	5.26	127.33	120.28
1	8M	67	GLN	N-CA-CB	-5.26	102.20	110.30
1	8N	57	ASN	CB-CA-C	-5.26	100.90	110.63
1	8N	150	ILE	N-CA-C	5.26	115.99	110.62
1	8U	219	GLN	O-C-N	-5.26	116.55	123.02
1	8W	228	ALA	N-CA-CB	-5.26	102.74	110.26
1	8Z	114	GLN	CA-C-N	5.26	127.89	120.42
1	8Z	114	GLN	C-N-CA	5.26	127.89	120.42
1	93	135	ILE	N-CA-C	-5.26	105.37	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9a	83	LEU	N-CA-C	5.26	116.70	111.07
1	9c	226	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	9d	172	LEU	N-CA-C	5.26	118.96	112.54
1	9f	208	ALA	N-CA-C	5.26	118.65	111.39
1	9q	91	ILE	CA-C-O	-5.26	114.90	120.48
1	9r	31	ALA	O-C-N	-5.26	115.59	122.59
1	9w	16	SER	CA-C-N	5.26	125.32	119.32
1	9w	16	SER	C-N-CA	5.26	125.32	119.32
1	9z	18	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	9A	12	HIS	CA-CB-CG	5.26	119.06	113.80
1	9E	23	TRP	N-CA-CB	-5.26	101.82	109.82
1	9K	27	VAL	CA-C-O	-5.26	115.27	120.85
1	9L	183	ASN	O-C-N	-5.26	116.54	122.12
1	9U	40	PHE	N-CA-C	5.26	117.42	111.11
1	9Z	75	GLU	N-CA-CB	5.26	117.64	110.01
1	ag	73	ILE	N-CA-CB	5.26	117.05	110.47
1	ak	12	HIS	CA-C-N	5.26	130.83	122.94
1	ak	12	HIS	C-N-CA	5.26	130.83	122.94
1	an	62	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	ar	102	SER	CA-C-O	5.26	126.13	120.55
1	aA	134	ILE	CA-C-N	5.26	127.67	120.46
1	aA	134	ILE	C-N-CA	5.26	127.67	120.46
1	aC	190	LEU	N-CA-CB	5.26	117.78	109.94
1	aD	173	ARG	N-CA-C	-5.26	105.96	112.38
1	13	132	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	aR	204	ALA	O-C-N	-5.26	116.65	122.07
1	aU	115	ILE	CA-C-N	5.26	125.78	119.94
1	aU	115	ILE	C-N-CA	5.26	125.78	119.94
1	aY	154	ARG	O-C-N	-5.26	116.80	123.17
1	b1	27	VAL	CA-C-N	5.26	127.33	120.28
1	b1	27	VAL	C-N-CA	5.26	127.33	120.28
1	b3	154	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	b5	23	TRP	CB-CG-CD1	-5.26	119.01	126.90
1	be	230	VAL	CA-C-N	5.26	131.17	121.70
1	be	230	VAL	C-N-CA	5.26	131.17	121.70
1	bs	13	GLN	CG-CD-NE2	-5.26	108.51	116.40
1	bv	66	MET	O-C-N	-5.26	116.65	122.07
1	19	136	LEU	CA-C-N	5.26	125.67	119.94
1	19	136	LEU	C-N-CA	5.26	125.67	119.94
1	bM	226	HIS	CB-CG-ND1	5.26	130.59	122.70
1	bN	114	GLN	O-C-N	-5.26	116.65	122.07
1	bZ	152	ASP	CA-C-N	5.26	127.63	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bZ	152	ASP	C-N-CA	5.26	127.63	120.63
1	ch	22	ALA	CA-C-N	5.26	127.28	120.44
1	ch	22	ALA	C-N-CA	5.26	127.28	120.44
1	cp	137	GLY	CA-C-N	5.26	127.86	120.28
1	cp	137	GLY	C-N-CA	5.26	127.86	120.28
1	ct	45	GLU	N-CA-C	5.26	118.48	111.75
1	cz	45	GLU	N-CA-C	-5.26	106.36	112.89
1	cF	37	ILE	CB-CG1-CD1	5.26	124.85	113.80
1	cI	28	GLU	CA-C-O	-5.26	115.30	120.82
1	cL	127	GLY	N-CA-C	5.26	119.04	112.73
1	cN	118	MET	CA-CB-CG	-5.26	103.58	114.10
1	cO	179	GLN	CA-C-N	5.26	127.33	120.28
1	cO	179	GLN	C-N-CA	5.26	127.33	120.28
1	cU	205	LEU	CA-C-O	5.26	125.83	119.31
1	d8	160	PRO	N-CA-C	5.26	119.30	111.41
1	dj	9	GLN	CA-C-N	5.26	128.24	120.82
1	dj	9	GLN	C-N-CA	5.26	128.24	120.82
1	dn	55	MET	CB-CA-C	-5.26	102.05	110.79
1	do	63	GLN	N-CA-C	5.26	118.86	112.23
1	1l	228	ALA	N-CA-C	5.26	117.66	110.24
1	dQ	53	ASN	O-C-N	-5.26	116.54	122.12
1	dQ	92	GLU	O-C-N	-5.26	115.27	121.32
1	dZ	105	ALA	CA-C-N	5.26	130.93	122.40
1	dZ	105	ALA	C-N-CA	5.26	130.93	122.40
1	e2	118	MET	CA-C-O	5.26	125.65	119.28
1	e3	185	MET	CG-SD-CE	-5.26	89.33	100.90
1	ev	47	ALA	CA-C-O	5.26	126.98	121.19
1	ev	209	ALA	CA-C-O	5.26	126.94	121.15
1	1r	194	ALA	N-CA-C	5.26	117.61	110.35
1	ez	19	THR	O-C-N	-5.26	116.65	122.07
1	eH	173	ARG	N-CA-C	5.26	116.70	111.07
1	eJ	13	GLN	CA-C-N	5.26	128.24	120.82
1	eJ	13	GLN	C-N-CA	5.26	128.24	120.82
1	eN	34	PRO	CA-C-O	-5.26	111.33	119.64
1	eV	200	THR	N-CA-C	5.26	116.70	111.07
1	eW	39	MET	O-C-N	-5.26	116.20	122.20
1	1u	39	MET	CA-C-O	-5.26	114.84	120.42
1	1u	147	PRO	CA-C-N	5.26	131.88	122.09
1	1u	147	PRO	C-N-CA	5.26	131.88	122.09
1	f6	48	THR	N-CA-CB	5.26	117.97	110.03
1	fu	46	GLY	CA-C-N	5.26	128.18	120.71
1	fu	46	GLY	C-N-CA	5.26	128.18	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fD	28	GLU	CA-CB-CG	-5.26	103.58	114.10
1	fF	132	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	fX	81	ASP	N-CA-C	5.26	117.92	111.82
1	0	191	VAL	O-C-N	-5.26	116.75	121.91
1	i	130	TYR	O-C-N	-5.26	116.15	122.15
1	z	34	PRO	N-CA-C	-5.26	107.17	114.27
1	B	222	GLY	O-C-N	-5.26	115.86	122.70
1	G	166	ASP	CA-C-O	5.26	126.13	120.55
1	R	130	TYR	CA-C-O	-5.26	114.84	120.42
1	g9	229	ARG	O-C-N	-5.26	116.55	122.97
1	gc	51	ASP	CB-CA-C	-5.26	102.59	110.90
1	gg	87	HIS	CB-CG-ND1	5.26	130.59	122.70
1	gh	113	GLU	N-CA-C	5.26	117.01	111.28
1	1D	41	SER	CB-CA-C	-5.26	102.06	110.79
1	gP	67	GLN	N-CA-CB	5.26	117.85	110.12
1	gP	161	PHE	N-CA-C	5.26	122.00	110.80
1	h5	131	LYS	CB-CA-C	5.26	119.52	110.79
1	h6	14	ALA	CA-C-O	-5.26	115.69	120.95
1	hf	196	PRO	N-CA-C	5.26	123.30	112.47
1	hg	58	THR	CA-C-O	5.26	126.06	119.59
1	hi	53	ASN	N-CA-C	5.26	117.92	111.82
1	hr	212	GLU	CA-C-N	5.26	127.33	120.28
1	hr	212	GLU	C-N-CA	5.26	127.33	120.28
1	hs	178	SER	N-CA-C	5.26	122.00	110.80
1	hu	158	LYS	CA-C-O	5.26	125.50	119.35
1	hE	99	PRO	N-CA-CB	5.26	107.51	103.30
1	hG	62	HIS	N-CA-C	5.26	118.50	111.24
1	1L	52	LEU	CA-C-O	5.26	126.34	120.82
1	hM	103	ASP	CA-C-O	-5.26	114.97	120.55
1	hN	17	PRO	CA-C-N	5.26	127.28	120.44
1	hN	17	PRO	C-N-CA	5.26	127.28	120.44
1	hN	87	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	i9	111	LEU	O-C-N	-5.26	116.62	122.09
1	id	162	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	id	166	ASP	N-CA-C	5.26	117.01	111.28
1	iC	83	LEU	N-CA-C	5.26	117.92	111.82
1	iE	105	ALA	CA-C-O	5.26	126.06	119.59
1	iL	23	TRP	N-CA-C	5.26	117.42	111.11
1	iU	75	GLU	CA-C-N	5.26	127.76	120.29
1	iU	75	GLU	C-N-CA	5.26	127.76	120.29
1	iW	133	TRP	N-CA-C	5.26	117.09	111.36
1	j6	190	LEU	N-CA-CB	5.26	117.85	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jb	130	TYR	CB-CA-C	5.26	119.52	110.79
1	jC	50	GLN	N-CA-C	5.26	117.42	111.11
1	jD	137	GLY	O-C-N	-5.26	116.29	122.34
1	jE	41	SER	CA-C-N	5.26	127.85	120.28
1	jE	41	SER	C-N-CA	5.26	127.85	120.28
1	jG	15	ILE	CA-C-O	5.26	127.35	120.78
1	jI	117	TRP	N-CA-C	-5.26	105.44	111.07
1	jJ	10	MET	O-C-N	-5.26	115.60	122.59
1	jK	120	HIS	CB-CG-CD2	-5.26	124.36	131.20
1	jX	117	TRP	CB-CG-CD2	5.26	134.16	126.80
1	k3	15	ILE	N-CA-C	5.26	120.28	109.34
1	k3	172	LEU	O-C-N	-5.26	115.38	122.43
1	k8	3	VAL	CA-C-O	-5.26	114.90	120.53
1	k8	23	TRP	O-C-N	-5.26	116.65	122.07
1	k8	180	GLU	N-CA-C	5.26	117.42	111.11
1	k9	135	ILE	CA-C-N	5.26	127.59	120.38
1	k9	135	ILE	C-N-CA	5.26	127.59	120.38
1	kb	230	VAL	CA-CB-CG1	-5.26	101.46	110.40
1	kc	143	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	21	207	PRO	N-CA-C	5.26	120.51	114.20
1	kz	150	ILE	O-C-N	5.26	126.97	121.87
1	24	110	THR	N-CA-C	5.26	117.86	109.81
1	kW	176	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	l0	205	LEU	CA-C-N	5.26	130.13	121.87
1	l0	205	LEU	C-N-CA	5.26	130.13	121.87
1	l5	41	SER	O-C-N	-5.26	116.55	122.12
1	ld	92	GLU	N-CA-C	5.26	120.63	113.16
1	lB	158	LYS	N-CA-C	-5.26	106.17	112.59
1	lG	41	SER	CA-C-N	5.26	128.31	120.31
1	lG	41	SER	C-N-CA	5.26	128.31	120.31
1	2e	220	GLY	N-CA-C	-5.26	107.28	114.64
1	2k	86	VAL	CA-CB-CG1	5.26	119.34	110.40
1	2m	49	PRO	N-CA-CB	5.26	108.77	103.25
1	2v	40	PHE	N-CA-CB	-5.26	102.38	110.01
1	2N	68	MET	CA-C-N	5.26	127.64	120.54
1	2N	68	MET	C-N-CA	5.26	127.64	120.54
1	2Q	73	ILE	CA-C-N	5.26	127.59	120.38
1	2Q	73	ILE	C-N-CA	5.26	127.59	120.38
1	31	115	ILE	N-CA-C	5.26	116.62	110.62
1	3b	162	ARG	CA-C-O	-5.26	114.40	120.24
1	3b	224	PRO	N-CA-C	5.26	123.30	112.47
1	3f	168	PHE	CA-CB-CG	-5.26	108.54	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	2	ILE	CA-C-N	5.26	130.03	123.14
1	3h	2	ILE	C-N-CA	5.26	130.03	123.14
1	3i	213	GLU	CA-C-N	5.26	127.28	120.44
1	3i	213	GLU	C-N-CA	5.26	127.28	120.44
1	3n	139	ASN	CA-C-O	-5.26	115.30	120.82
1	3r	170	LYS	CA-CB-CG	-5.26	103.58	114.10
1	3u	137	GLY	CA-C-N	5.26	127.76	120.29
1	3u	137	GLY	C-N-CA	5.26	127.76	120.29
1	3v	154	ARG	CG-CD-NE	-5.26	100.43	112.00
1	3E	4	GLN	O-C-N	-5.26	115.59	122.59
1	3P	30	LYS	N-CA-CB	-5.26	102.80	110.53
1	3S	143	ARG	N-CA-C	5.26	117.01	111.28
1	45	123	PRO	N-CA-C	5.26	119.45	111.19
1	4m	217	ALA	N-CA-C	5.26	117.32	110.43
1	4n	197	ASP	CA-C-N	5.26	127.33	120.28
1	4n	197	ASP	C-N-CA	5.26	127.33	120.28
1	4y	173	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	4F	7	GLN	CA-C-N	5.26	130.48	120.07
1	4F	7	GLN	C-N-CA	5.26	130.48	120.07
1	4H	76	GLU	O-C-N	-5.26	116.16	122.15
1	50	172	LEU	N-CA-C	-5.26	105.55	111.28
1	5h	184	TRP	CB-CG-CD2	5.26	134.16	126.80
1	5p	107	THR	CA-C-O	5.26	126.00	119.79
1	5A	157	PRO	N-CA-CB	5.26	109.33	103.44
1	5C	62	HIS	CB-CG-ND1	-5.26	114.81	122.70
1	5D	37	ILE	N-CA-C	5.26	120.24	108.88
1	5E	176	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	5G	43	LEU	CA-C-O	5.26	126.02	119.97
1	5H	159	GLU	CA-C-O	-5.26	115.01	119.59
1	5O	29	GLU	N-CA-C	5.26	117.09	111.36
1	5Y	117	TRP	N-CA-C	5.26	117.01	111.28
1	61	210	THR	N-CA-CB	5.26	118.28	110.29
1	62	7	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	63	195	ASN	CA-C-N	5.26	124.77	119.19
1	63	195	ASN	C-N-CA	5.26	124.77	119.19
1	68	70	LYS	N-CA-C	5.26	118.96	112.54
1	6g	13	GLN	CB-CG-CD	5.26	121.54	112.60
1	6g	179	GLN	N-CA-CB	5.26	117.78	109.94
1	6i	168	PHE	N-CA-CB	-5.26	102.44	110.07
1	6v	167	ARG	NE-CZ-NH1	-5.26	116.24	121.50
1	6C	24	VAL	CA-C-N	5.26	127.33	120.28
1	6C	24	VAL	C-N-CA	5.26	127.33	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6M	149	SER	N-CA-C	5.26	117.50	110.35
1	6N	55	MET	O-C-N	-5.26	116.55	122.12
1	6X	170	LYS	O-C-N	-5.26	115.80	122.27
1	6X	229	ARG	N-CA-CB	5.26	118.05	109.69
1	70	216	THR	N-CA-CB	5.26	117.78	109.94
1	72	26	VAL	CA-C-O	5.26	126.74	121.27
1	73	80	TRP	CB-CG-CD2	-5.26	119.44	126.80
1	7b	119	THR	N-CA-C	-5.26	106.54	113.17
1	7e	63	GLN	N-CA-C	5.26	117.76	111.71
1	7i	182	LYS	CB-CA-C	-5.26	102.06	110.79
1	7k	151	LEU	O-C-N	-5.26	115.25	122.46
1	7s	3	VAL	N-CA-CB	5.26	118.34	110.13
1	7E	99	PRO	CA-C-N	5.26	131.96	122.02
1	7E	99	PRO	C-N-CA	5.26	131.96	122.02
1	7J	6	LEU	CA-C-N	5.26	131.59	121.54
1	7J	6	LEU	C-N-CA	5.26	131.59	121.54
1	7K	110	THR	CA-CB-CG2	5.26	119.44	110.50
1	7M	24	VAL	CA-CB-CG1	5.26	119.34	110.40
1	7S	189	LEU	N-CA-C	5.26	117.01	111.28
1	7U	65	ALA	CA-C-O	5.26	126.34	120.82
1	8b	179	GLN	N-CA-C	5.26	122.00	110.80
1	8f	200	THR	CA-C-N	5.26	127.19	120.56
1	8f	200	THR	C-N-CA	5.26	127.19	120.56
1	8f	211	LEU	CB-CA-C	5.26	119.52	110.79
1	8g	45	GLU	CA-C-N	5.26	130.48	121.07
1	8g	45	GLU	C-N-CA	5.26	130.48	121.07
1	8k	130	TYR	CA-C-N	5.26	127.59	120.38
1	8k	130	TYR	C-N-CA	5.26	127.59	120.38
1	8r	132	ARG	CB-CG-CD	5.26	123.40	111.30
1	8x	93	PRO	N-CA-CB	-5.26	97.73	103.25
1	8C	162	ARG	CA-C-N	5.26	127.28	120.44
1	8C	162	ARG	C-N-CA	5.26	127.28	120.44
1	8J	97	ARG	O-C-N	-5.26	116.97	123.33
1	8K	131	LYS	CA-C-N	5.26	127.76	120.29
1	8K	131	LYS	C-N-CA	5.26	127.76	120.29
1	8Z	179	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	92	12	HIS	CA-C-O	-5.26	114.54	120.43
1	95	197	ASP	O-C-N	-5.26	116.54	122.12
1	9d	144	MET	CG-SD-CE	-5.26	89.33	100.90
1	9e	189	LEU	CA-C-N	5.26	127.64	120.54
1	9e	189	LEU	C-N-CA	5.26	127.64	120.54
1	9j	212	GLU	N-CA-C	5.26	117.01	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9v	16	SER	CA-C-N	5.26	126.42	119.84
1	9v	16	SER	C-N-CA	5.26	126.42	119.84
1	9A	186	THR	CA-CB-CG2	5.26	119.44	110.50
1	9G	150	ILE	O-C-N	-5.26	115.97	122.18
1	9K	165	VAL	CA-CB-CG1	5.26	119.34	110.40
1	9M	203	LYS	O-C-N	-5.26	115.28	122.33
1	9P	114	GLN	CB-CG-CD	-5.26	103.66	112.60
1	9X	225	GLY	CA-C-O	-5.26	116.55	121.18
1	a3	97	ARG	N-CA-C	5.26	122.00	110.80
1	a9	78	ALA	CA-C-N	5.26	127.33	120.28
1	a9	78	ALA	C-N-CA	5.26	127.33	120.28
1	ad	167	ARG	CA-C-O	5.26	126.02	119.97
1	av	73	ILE	CA-C-N	5.26	127.33	120.28
1	av	73	ILE	C-N-CA	5.26	127.33	120.28
1	az	104	ILE	O-C-N	-5.26	116.75	121.91
1	13	64	ALA	CA-C-N	5.26	127.33	120.28
1	13	64	ALA	C-N-CA	5.26	127.33	120.28
1	aI	184	TRP	O-C-N	-5.26	115.80	122.27
1	14	124	ILE	CA-C-O	5.26	125.62	119.89
1	aO	53	ASN	CA-C-O	-5.26	114.97	120.55
1	aQ	168	PHE	CA-C-O	5.26	126.00	120.42
1	aT	137	GLY	CA-C-N	5.26	127.33	120.28
1	aT	137	GLY	C-N-CA	5.26	127.33	120.28
1	aT	226	HIS	CA-CB-CG	-5.26	108.54	113.80
1	aZ	199	LYS	CA-C-N	5.26	127.28	120.44
1	aZ	199	LYS	C-N-CA	5.26	127.28	120.44
1	b8	212	GLU	CB-CA-C	-5.26	102.06	110.79
1	bc	147	PRO	N-CA-C	5.26	119.49	111.34
1	bo	191	VAL	N-CA-C	5.26	115.47	110.53
1	18	28	GLU	N-CA-C	5.26	116.70	110.97
1	bB	18	ARG	NE-CZ-NH1	5.26	126.76	121.50
1	bH	26	VAL	CA-C-N	5.26	127.19	120.56
1	bH	26	VAL	C-N-CA	5.26	127.19	120.56
1	bN	70	LYS	CA-CB-CG	-5.26	103.58	114.10
1	bN	187	GLU	O-C-N	-5.26	116.16	122.15
1	bS	9	GLN	CG-CD-OE1	-5.26	110.28	120.80
1	bS	84	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	bV	182	LYS	N-CA-C	5.26	117.01	111.28
1	1c	90	PRO	CA-N-CD	-5.26	104.64	112.00
1	cc	59	VAL	CA-CB-CG1	5.26	119.34	110.40
1	ck	28	GLU	O-C-N	-5.26	116.65	122.07
1	cn	221	VAL	N-CA-C	5.26	115.99	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ct	62	HIS	N-CA-C	5.26	118.50	111.24
1	cu	58	THR	CA-CB-OG1	5.26	117.49	109.60
1	cv	2	ILE	O-C-N	5.26	128.40	122.67
1	cv	125	PRO	CA-N-CD	5.26	119.36	112.00
1	cB	39	MET	N-CA-C	5.26	117.09	111.36
1	1i	117	TRP	CB-CG-CD2	-5.26	119.44	126.80
1	d9	209	ALA	N-CA-C	5.26	118.69	111.54
1	dc	219	GLN	CB-CG-CD	-5.26	103.66	112.60
1	1j	223	GLY	N-CA-C	5.26	123.07	112.34
1	dj	110	THR	CA-C-N	5.26	127.85	120.28
1	dj	110	THR	C-N-CA	5.26	127.85	120.28
1	do	208	ALA	CA-C-N	5.26	129.76	121.56
1	do	208	ALA	C-N-CA	5.26	129.76	121.56
1	dv	15	ILE	O-C-N	-5.26	116.94	122.67
1	dv	115	ILE	CA-C-N	5.26	125.78	119.94
1	dv	115	ILE	C-N-CA	5.26	125.78	119.94
1	dz	10	MET	CG-SD-CE	-5.26	89.33	100.90
1	dN	16	SER	N-CA-C	5.26	116.45	109.93
1	dN	91	ILE	CA-CB-CG1	5.26	119.34	110.40
1	dU	35	GLU	O-C-N	-5.26	115.38	122.43
1	dV	19	THR	O-C-N	-5.26	116.54	122.12
1	ea	23	TRP	O-C-N	-5.26	116.16	122.15
1	eh	209	ALA	CB-CA-C	5.26	119.22	109.54
1	ei	3	VAL	O-C-N	-5.26	116.94	122.67
1	el	62	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	el	69	LEU	CA-C-N	5.26	127.33	120.28
1	el	69	LEU	C-N-CA	5.26	127.33	120.28
1	ey	21	ASN	CA-CB-CG	5.26	117.86	112.60
1	eF	132	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	eP	135	ILE	CA-C-N	5.26	127.28	120.44
1	eP	135	ILE	C-N-CA	5.26	127.28	120.44
1	fa	218	CYS	N-CA-CB	5.26	119.38	110.49
1	fh	173	ARG	CA-C-O	5.26	125.73	119.10
1	1w	187	GLU	CG-CD-OE1	5.26	130.50	118.40
1	fp	66	MET	CA-C-O	-5.26	114.16	120.10
1	fw	7	GLN	CA-C-O	5.26	125.58	119.32
1	fw	21	ASN	CA-C-N	5.26	127.76	120.29
1	fw	21	ASN	C-N-CA	5.26	127.76	120.29
1	fz	15	ILE	CA-C-N	5.26	131.26	121.69
1	fz	15	ILE	C-N-CA	5.26	131.26	121.69
1	fC	56	LEU	CA-C-O	5.26	126.00	120.42
1	fF	69	LEU	O-C-N	-5.26	116.55	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fU	74	ASN	O-C-N	-5.26	116.65	122.07
1	g	211	LEU	CA-C-N	5.26	127.64	120.54
1	g	211	LEU	C-N-CA	5.26	127.64	120.54
1	l	78	ALA	CA-C-N	5.26	127.28	120.44
1	l	78	ALA	C-N-CA	5.26	127.28	120.44
1	p	65	ALA	CB-CA-C	-5.26	102.06	110.79
1	r	170	LYS	CA-C-N	5.26	127.76	120.29
1	r	170	LYS	C-N-CA	5.26	127.76	120.29
1	B	193	ASN	N-CA-C	5.26	119.39	112.92
1	C	19	THR	CA-CB-OG1	5.26	117.49	109.60
1	D	11	VAL	N-CA-C	5.26	115.47	110.42
1	K	100	ARG	NH1-CZ-NH2	-5.26	112.46	119.30
1	Q	164	TYR	N-CA-CB	-5.26	102.39	110.12
1	5	171	THR	CA-C-O	5.26	126.34	120.82
1	gd	139	ASN	CA-C-N	5.26	127.28	120.44
1	gd	139	ASN	C-N-CA	5.26	127.28	120.44
1	1C	58	THR	CA-CB-OG1	5.26	117.49	109.60
1	gk	151	LEU	CA-C-O	-5.26	113.92	119.97
1	gv	128	GLU	N-CA-C	5.26	116.82	111.14
1	gz	117	TRP	CB-CG-CD1	-5.26	119.01	126.90
1	1H	69	LEU	CA-C-O	-5.26	115.48	121.00
1	he	59	VAL	N-CA-CB	-5.26	104.71	110.65
1	1I	62	HIS	ND1-CG-CD2	5.26	111.36	106.10
1	hi	131	LYS	CG-CD-CE	5.26	123.39	111.30
1	hm	20	LEU	N-CA-C	5.26	116.70	111.07
1	hp	115	ILE	O-C-N	-5.26	116.41	121.83
1	hu	82	ARG	NE-CZ-NH2	5.26	123.93	119.20
1	hv	150	ILE	CA-C-N	5.26	130.91	121.66
1	hv	150	ILE	C-N-CA	5.26	130.91	121.66
1	hw	18	ARG	NH1-CZ-NH2	-5.26	112.47	119.30
1	hy	117	TRP	CA-C-N	5.26	127.33	120.28
1	hy	117	TRP	C-N-CA	5.26	127.33	120.28
1	hH	32	PHE	CA-CB-CG	-5.26	108.54	113.80
1	hS	187	GLU	CA-C-N	5.26	128.53	121.90
1	hS	187	GLU	C-N-CA	5.26	128.53	121.90
1	hU	87	HIS	CB-CG-CD2	-5.26	124.36	131.20
1	hX	226	HIS	N-CA-CB	-5.26	99.69	111.10
1	i3	127	GLY	CA-C-O	-5.26	115.32	121.00
1	ic	88	ALA	CA-C-O	5.26	125.07	119.34
1	ie	157	PRO	CB-CA-C	5.26	119.38	111.44
1	ie	167	ARG	CA-C-N	5.26	127.28	120.44
1	ie	167	ARG	C-N-CA	5.26	127.28	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	il	123	PRO	N-CA-CB	-5.26	98.73	103.36
1	iE	111	LEU	N-CA-CB	-5.26	102.39	110.12
1	iG	126	VAL	CB-CA-C	-5.26	104.01	112.16
1	iZ	25	LYS	CB-CG-CD	5.26	123.39	111.30
1	j1	86	VAL	N-CA-C	5.26	116.28	108.23
1	j1	162	ARG	CD-NE-CZ	5.26	131.76	124.40
1	js	178	SER	N-CA-C	-5.26	102.74	110.52
1	jJ	192	GLN	N-CA-C	5.26	117.69	111.33
1	1Z	112	GLN	N-CA-C	5.26	117.92	111.82
1	kA	108	THR	O-C-N	-5.26	115.88	122.35
1	l6	10	MET	N-CA-C	5.26	122.00	110.80
1	la	67	GLN	CA-C-N	5.26	128.30	120.31
1	la	67	GLN	C-N-CA	5.26	128.30	120.31
1	lm	115	ILE	O-C-N	-5.26	116.77	121.87
1	lF	33	SER	CA-C-O	-5.26	114.75	120.69
1	2b	197	ASP	N-CA-C	5.26	116.82	111.14
1	2f	166	ASP	N-CA-C	5.26	117.01	111.28
1	3k	12	HIS	N-CA-C	5.26	118.51	110.20
1	3n	166	ASP	CA-CB-CG	5.26	117.86	112.60
1	3u	220	GLY	CA-C-N	5.26	129.96	123.12
1	3u	220	GLY	C-N-CA	5.26	129.96	123.12
1	3w	153	ILE	N-CA-C	5.26	117.03	109.51
1	3E	195	ASN	CA-C-N	5.26	126.41	119.84
1	3E	195	ASN	C-N-CA	5.26	126.41	119.84
1	3I	226	HIS	CB-CG-ND1	5.26	130.59	122.70
1	3K	194	ALA	O-C-N	-5.26	116.18	122.65
1	3M	124	ILE	N-CA-CB	5.26	117.70	111.23
1	3Y	58	THR	O-C-N	-5.26	116.07	122.22
1	41	116	GLY	O-C-N	5.26	128.01	122.28
1	4E	146	SER	CA-C-O	-5.26	114.87	120.23
1	4Q	126	VAL	O-C-N	5.26	127.06	121.91
1	4U	82	ARG	CA-C-O	5.26	125.99	120.42
1	4Z	55	MET	O-C-N	-5.26	116.41	122.09
1	5d	226	HIS	CA-CB-CG	-5.26	108.54	113.80
1	5g	2	ILE	CA-C-O	5.26	126.86	121.23
1	5H	84	HIS	O-C-N	-5.26	115.08	121.02
1	61	23	TRP	CG-CD2-CE3	-5.26	128.64	133.90
1	65	189	LEU	CB-CA-C	5.26	119.14	110.88
1	6g	19	THR	N-CA-CB	5.26	117.64	110.01
1	6g	227	LYS	N-CA-C	5.26	116.97	109.14
1	6v	4	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	6P	89	GLY	CA-C-N	5.26	125.26	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6P	89	GLY	C-N-CA	5.26	125.26	119.90
1	7b	66	MET	N-CA-C	5.26	117.01	111.28
1	7k	1	PRO	CA-C-N	5.26	128.43	120.75
1	7k	1	PRO	C-N-CA	5.26	128.43	120.75
1	7t	184	TRP	CB-CA-C	5.26	119.79	110.85
1	7B	12	HIS	CB-CG-ND1	5.26	130.59	122.70
1	81	160	PRO	CA-C-N	5.26	131.58	121.54
1	81	160	PRO	C-N-CA	5.26	131.58	121.54
1	8p	44	SER	O-C-N	-5.26	116.00	122.05
1	8N	80	TRP	CB-CG-CD2	-5.26	119.44	126.80
1	8Q	81	ASP	CA-C-N	5.26	127.64	120.54
1	8Q	81	ASP	C-N-CA	5.26	127.64	120.54
1	8S	84	HIS	CB-CA-C	-5.26	101.22	109.11
1	95	18	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	9u	126	VAL	O-C-N	-5.26	116.77	121.87
1	9B	22	ALA	O-C-N	5.26	127.49	122.07
1	9D	76	GLU	CA-C-N	5.26	127.28	120.44
1	9D	76	GLU	C-N-CA	5.26	127.28	120.44
1	9K	67	GLN	O-C-N	-5.26	116.55	122.12
1	9V	49	PRO	CA-C-N	5.26	127.76	120.29
1	9V	49	PRO	C-N-CA	5.26	127.76	120.29
1	a5	133	TRP	O-C-N	-5.26	116.55	122.12
1	af	150	ILE	N-CA-C	5.26	117.66	111.09
1	an	84	HIS	CA-C-N	5.26	126.41	119.84
1	an	84	HIS	C-N-CA	5.26	126.41	119.84
1	aT	132	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	15	223	GLY	O-C-N	-5.26	116.51	121.77
1	aY	116	GLY	N-CA-C	5.26	119.25	112.83
1	aZ	62	HIS	CA-C-N	5.26	127.33	120.28
1	aZ	62	HIS	C-N-CA	5.26	127.33	120.28
1	b0	32	PHE	O-C-N	-5.26	115.69	122.21
1	bd	152	ASP	N-CA-C	-5.26	106.86	113.28
1	br	98	GLU	N-CA-C	5.26	117.23	109.50
1	bu	133	TRP	CB-CG-CD2	-5.26	119.44	126.80
1	c3	12	HIS	CA-C-O	5.26	126.68	120.69
1	c5	113	GLU	N-CA-C	5.26	116.70	111.07
1	cq	171	THR	O-C-N	-5.26	116.55	122.12
1	ct	98	GLU	O-C-N	5.26	126.07	121.18
1	cD	42	ALA	CA-C-O	-5.26	114.16	120.10
1	cZ	199	LYS	CA-C-N	5.26	127.28	120.44
1	cZ	199	LYS	C-N-CA	5.26	127.28	120.44
1	d7	28	GLU	O-C-N	-5.26	116.55	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dg	183	ASN	CA-CB-CG	5.26	117.86	112.60
1	dw	49	PRO	N-CA-C	5.26	121.58	113.75
1	dx	155	GLN	CG-CD-NE2	5.26	124.29	116.40
1	1m	133	TRP	CG-CD1-NE1	-5.26	103.36	110.20
1	dS	62	HIS	ND1-CG-CD2	5.26	111.36	106.10
1	dU	184	TRP	CA-C-N	5.26	127.28	120.44
1	dU	184	TRP	C-N-CA	5.26	127.28	120.44
1	dV	226	HIS	N-CA-C	-5.26	106.84	113.20
1	dW	96	MET	N-CA-C	5.26	118.26	110.48
1	e8	57	ASN	N-CA-C	5.26	117.09	111.36
1	ep	212	GLU	N-CA-C	5.26	117.42	111.11
1	eC	180	GLU	CA-C-O	5.26	125.99	120.42
1	eF	54	THR	N-CA-C	-5.26	105.63	111.36
1	fi	37	ILE	O-C-N	5.26	123.80	120.07
1	fk	72	THR	CA-C-O	5.26	126.12	120.55
1	fl	201	ILE	CA-C-N	5.26	127.33	120.28
1	fl	201	ILE	C-N-CA	5.26	127.33	120.28
1	0	199	LYS	CA-C-N	5.26	127.33	120.28
1	0	199	LYS	C-N-CA	5.26	127.33	120.28
1	a	219	GLN	CA-C-N	5.26	131.16	121.70
1	a	219	GLN	C-N-CA	5.26	131.16	121.70
1	p	37	ILE	CB-CA-C	5.26	120.89	114.00
1	G	183	ASN	CA-CB-CG	5.26	117.86	112.60
1	H	50	GLN	CA-C-O	5.26	126.31	120.63
1	g8	213	GLU	N-CA-CB	5.26	117.77	109.94
1	1C	194	ALA	CA-C-N	5.26	128.64	120.60
1	1C	194	ALA	C-N-CA	5.26	128.64	120.60
1	gk	11	VAL	CA-C-N	5.26	131.58	121.54
1	gk	11	VAL	C-N-CA	5.26	131.58	121.54
1	gA	124	ILE	N-CA-C	-5.26	101.85	108.05
1	gE	87	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	gE	102	SER	CA-C-N	5.26	127.27	120.44
1	gE	102	SER	C-N-CA	5.26	127.27	120.44
1	gM	208	ALA	N-CA-C	-5.26	106.55	113.17
1	gO	148	THR	CA-CB-OG1	5.26	117.48	109.60
1	gU	82	ARG	N-CA-CB	5.26	117.85	110.12
1	gU	209	ALA	CA-C-N	5.26	128.69	120.75
1	gU	209	ALA	C-N-CA	5.26	128.69	120.75
1	h2	124	ILE	CA-C-O	-5.26	112.91	119.95
1	h5	181	VAL	O-C-N	-5.26	116.77	121.87
1	hc	188	THR	CA-CB-CG2	5.26	119.44	110.50
1	hm	32	PHE	CA-C-N	5.26	128.13	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hm	32	PHE	C-N-CA	5.26	128.13	120.51
1	hm	87	HIS	CG-CD2-NE2	5.26	112.46	107.20
1	hm	95	GLN	N-CA-CB	-5.26	102.23	110.69
1	hy	107	THR	CA-CB-CG2	5.26	119.43	110.50
1	hM	162	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	hO	63	GLN	O-C-N	-5.26	116.66	122.07
1	hQ	174	ALA	CA-C-N	5.26	128.17	120.71
1	hQ	174	ALA	C-N-CA	5.26	128.17	120.71
1	hY	220	GLY	CA-C-O	5.26	125.81	119.82
1	i7	119	THR	N-CA-C	5.26	119.68	113.16
1	ix	138	LEU	N-CA-C	5.26	117.09	111.36
1	ix	151	LEU	CA-C-N	5.26	130.64	122.49
1	ix	151	LEU	C-N-CA	5.26	130.64	122.49
1	iB	154	ARG	CB-CA-C	-5.26	101.44	110.22
1	j0	91	ILE	O-C-N	-5.26	117.50	123.18
1	j6	176	GLN	O-C-N	-5.26	116.64	123.32
1	1U	167	ARG	NH1-CZ-NH2	-5.26	112.47	119.30
1	je	154	ARG	CG-CD-NE	-5.26	100.44	112.00
1	jj	21	ASN	O-C-N	-5.26	116.55	122.12
1	1W	23	TRP	CA-C-N	5.26	128.92	120.30
1	1W	23	TRP	C-N-CA	5.26	128.92	120.30
1	jJ	85	PRO	CB-CA-C	5.26	120.23	111.56
1	jP	193	ASN	CB-CA-C	-5.26	101.60	110.64
1	1Z	32	PHE	CA-C-N	5.26	128.67	120.68
1	1Z	32	PHE	C-N-CA	5.26	128.67	120.68
1	k5	66	MET	N-CA-C	5.26	117.92	111.82
1	k7	182	LYS	N-CA-C	5.26	117.01	111.28
1	k8	168	PHE	N-CA-C	5.26	117.01	111.28
1	kb	110	THR	CA-C-N	5.26	127.58	120.38
1	kb	110	THR	C-N-CA	5.26	127.58	120.38
1	kw	72	THR	O-C-N	-5.26	116.07	122.22
1	kx	30	LYS	CA-C-O	5.26	125.35	119.41
1	kL	208	ALA	N-CA-C	-5.26	106.71	113.02
1	kM	79	GLU	O-C-N	5.26	127.56	122.09
1	kR	130	TYR	CB-CA-C	5.26	119.79	110.85
1	kZ	71	GLU	CA-C-O	-5.26	114.98	120.55
1	l0	211	LEU	O-C-N	-5.26	116.55	122.12
1	l1	66	MET	CA-C-O	-5.26	114.98	120.55
1	l7	71	GLU	N-CA-C	5.26	117.01	111.28
1	l9	212	GLU	CA-C-N	5.26	127.33	120.28
1	l9	212	GLU	C-N-CA	5.26	127.33	120.28
1	28	62	HIS	N-CA-C	5.26	122.00	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	28	219	GLN	CA-C-N	5.26	130.28	120.87
1	28	219	GLN	C-N-CA	5.26	130.28	120.87
1	ly	42	ALA	N-CA-C	5.26	117.01	111.28
1	lD	71	GLU	CA-C-O	-5.26	114.16	120.10
1	lE	169	TYR	N-CA-C	5.26	117.92	111.82
1	lL	135	ILE	O-C-N	-5.26	116.76	121.91
1	2a	167	ARG	NE-CZ-NH2	5.26	123.93	119.20
1	2e	213	GLU	CA-C-O	5.26	126.12	120.55
1	2h	146	SER	CA-C-O	5.26	123.97	119.66
1	2j	41	SER	CA-C-N	5.26	129.50	120.72
1	2j	41	SER	C-N-CA	5.26	129.50	120.72
1	2n	56	LEU	CA-C-N	5.26	127.85	120.28
1	2n	56	LEU	C-N-CA	5.26	127.85	120.28
1	2n	153	ILE	N-CA-C	5.26	115.34	107.51
1	2z	193	ASN	CA-CB-CG	5.26	117.86	112.60
1	2A	50	GLN	N-CA-C	5.26	117.09	111.36
1	2D	145	TYR	O-C-N	-5.26	116.00	122.25
1	2E	120	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	2V	63	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	35	64	ALA	N-CA-C	5.26	117.01	111.28
1	3a	192	GLN	CA-CB-CG	5.26	124.61	114.10
1	3o	189	LEU	CA-C-N	5.26	127.27	120.44
1	3o	189	LEU	C-N-CA	5.26	127.27	120.44
1	3y	162	ARG	NE-CZ-NH2	5.26	123.93	119.20
1	3A	82	ARG	CA-C-N	5.26	127.64	120.54
1	3A	82	ARG	C-N-CA	5.26	127.64	120.54
1	41	131	LYS	O-C-N	5.26	127.48	122.07
1	44	184	TRP	CA-C-N	5.26	127.32	120.28
1	44	184	TRP	C-N-CA	5.26	127.32	120.28
1	4d	226	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	4f	190	LEU	CA-C-O	-5.26	114.98	120.55
1	4r	23	TRP	CA-C-O	-5.26	115.30	120.82
1	4s	126	VAL	O-C-N	-5.26	116.76	121.91
1	4s	151	LEU	CA-C-O	5.26	125.83	119.31
1	4t	139	ASN	OD1-CG-ND2	-5.26	117.34	122.60
1	4I	170	LYS	O-C-N	5.26	128.37	122.22
1	4L	33	SER	CA-C-O	-5.26	114.75	120.69
1	4L	154	ARG	NH1-CZ-NH2	-5.26	112.47	119.30
1	4T	82	ARG	CB-CG-CD	5.26	123.39	111.30
1	4Z	165	VAL	CA-C-N	5.26	127.27	120.44
1	4Z	165	VAL	C-N-CA	5.26	127.27	120.44
1	54	114	GLN	CA-C-N	5.26	127.66	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	54	114	GLN	C-N-CA	5.26	127.66	120.46
1	55	70	LYS	O-C-N	-5.26	116.55	122.12
1	58	31	ALA	N-CA-C	5.26	117.01	111.28
1	58	107	THR	CA-CB-CG2	5.26	119.44	110.50
1	5j	35	GLU	CA-C-N	5.26	127.66	120.46
1	5j	35	GLU	C-N-CA	5.26	127.66	120.46
1	5v	204	ALA	CA-C-O	5.26	126.31	120.63
1	5x	87	HIS	CA-C-O	5.26	127.05	121.16
1	5z	128	GLU	CA-C-N	5.26	127.89	120.42
1	5z	128	GLU	C-N-CA	5.26	127.89	120.42
1	5A	165	VAL	N-CA-C	5.26	115.98	110.62
1	5C	53	ASN	O-C-N	-5.26	116.07	122.22
1	5J	204	ALA	CA-C-N	5.26	127.27	120.44
1	5J	204	ALA	C-N-CA	5.26	127.27	120.44
1	61	49	PRO	N-CA-C	5.26	123.30	112.47
1	6d	23	TRP	CG-CD2-CE3	-5.26	128.64	133.90
1	6d	182	LYS	CA-C-O	5.26	126.34	120.82
1	6e	152	ASP	CA-C-O	-5.26	115.45	120.92
1	6h	226	HIS	CB-CG-ND1	5.26	130.59	122.70
1	6j	218	CYS	CA-C-N	5.26	128.81	121.24
1	6j	218	CYS	C-N-CA	5.26	128.81	121.24
1	6o	188	THR	N-CA-CB	5.26	119.37	110.49
1	6v	142	VAL	CA-C-N	5.26	127.27	120.44
1	6v	142	VAL	C-N-CA	5.26	127.27	120.44
1	6y	25	LYS	CA-C-N	5.26	127.18	120.56
1	6y	25	LYS	C-N-CA	5.26	127.18	120.56
1	6E	173	ARG	CG-CD-NE	-5.26	100.44	112.00
1	6R	118	MET	N-CA-C	5.26	117.01	111.28
1	6S	161	PHE	O-C-N	-5.26	116.55	122.12
1	6Z	182	LYS	N-CA-C	5.26	117.01	111.28
1	72	29	GLU	N-CA-C	5.26	117.09	111.36
1	74	16	SER	CA-C-O	5.26	123.97	119.66
1	75	48	THR	N-CA-CB	5.26	117.97	110.03
1	79	63	GLN	OE1-CD-NE2	-5.26	117.34	122.60
1	7i	68	MET	N-CA-C	5.26	117.01	111.28
1	7v	146	SER	CA-C-N	5.26	125.25	119.89
1	7v	146	SER	C-N-CA	5.26	125.25	119.89
1	7x	21	ASN	CA-C-O	5.26	125.84	119.38
1	7z	121	ASN	CA-CB-CG	5.26	117.86	112.60
1	7A	23	TRP	CB-CG-CD2	-5.26	119.44	126.80
1	7A	173	ARG	CA-C-N	5.26	127.27	120.44
1	7A	173	ARG	C-N-CA	5.26	127.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	36	VAL	N-CA-C	5.26	116.61	110.62
1	7P	32	PHE	CA-CB-CG	5.26	119.06	113.80
1	7Y	221	VAL	CA-C-N	5.26	129.22	121.96
1	7Y	221	VAL	C-N-CA	5.26	129.22	121.96
1	84	2	ILE	CA-CB-CG2	5.26	119.44	110.50
1	88	215	MET	CB-CA-C	-5.26	100.58	110.67
1	8b	69	LEU	N-CA-C	5.26	118.16	111.69
1	8g	120	HIS	CB-CG-ND1	-5.26	114.82	122.70
1	8h	162	ARG	N-CA-C	5.26	122.00	110.80
1	8n	144	MET	CG-SD-CE	-5.26	89.34	100.90
1	8o	193	ASN	CA-C-N	5.26	128.33	120.87
1	8o	193	ASN	C-N-CA	5.26	128.33	120.87
1	8u	150	ILE	N-CA-C	5.26	120.27	109.34
1	8D	195	ASN	O-C-N	-5.26	116.02	121.28
1	8I	48	THR	CB-CA-C	-5.26	101.17	110.47
1	8N	134	ILE	CA-C-N	5.26	127.66	120.46
1	8N	134	ILE	C-N-CA	5.26	127.66	120.46
1	8N	152	ASP	CA-C-O	5.26	125.50	119.35
1	8O	108	THR	CA-C-O	-5.26	113.59	119.95
1	91	13	GLN	CA-C-N	5.26	128.69	120.75
1	91	13	GLN	C-N-CA	5.26	128.69	120.75
1	94	48	THR	CA-CB-OG1	5.26	117.48	109.60
1	96	62	HIS	CA-C-N	5.26	128.71	120.82
1	96	62	HIS	C-N-CA	5.26	128.71	120.82
1	9k	137	GLY	O-C-N	-5.26	117.14	122.19
1	9r	92	GLU	CA-C-N	5.26	125.56	119.93
1	9r	92	GLU	C-N-CA	5.26	125.56	119.93
1	9r	122	PRO	N-CD-CG	5.26	110.11	103.80
1	9w	72	THR	CB-CA-C	-5.26	102.40	110.81
1	9w	125	PRO	CA-C-N	5.26	127.94	120.53
1	9w	125	PRO	C-N-CA	5.26	127.94	120.53
1	9x	100	ARG	O-C-N	-5.26	115.24	122.23
1	9C	12	HIS	CB-CA-C	5.26	118.42	109.80
1	9E	113	GLU	CA-C-N	5.26	127.59	120.44
1	9E	113	GLU	C-N-CA	5.26	127.59	120.44
1	9G	163	ASP	CA-CB-CG	5.26	117.86	112.60
1	9H	132	ARG	CA-C-O	5.26	126.12	120.55
1	9H	152	ASP	CA-C-N	5.26	128.26	120.74
1	9H	152	ASP	C-N-CA	5.26	128.26	120.74
1	9O	33	SER	CA-C-N	5.26	125.57	119.47
1	9O	33	SER	C-N-CA	5.26	125.57	119.47
1	a4	82	ARG	CG-CD-NE	-5.26	100.44	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ac	28	GLU	CA-CB-CG	5.26	124.61	114.10
1	ag	72	THR	CA-C-O	5.26	126.34	120.82
1	ak	66	MET	N-CA-C	5.26	117.69	111.33
1	al	72	THR	CA-C-N	5.26	127.29	120.56
1	al	72	THR	C-N-CA	5.26	127.29	120.56
1	al	95	GLN	CA-C-O	-5.26	115.46	121.40
1	am	205	LEU	CB-CA-C	5.26	119.21	110.90
1	ap	23	TRP	O-C-N	-5.26	116.55	122.12
1	at	184	TRP	CB-CG-CD2	5.26	134.16	126.80
1	13	68	MET	CA-C-N	5.26	127.32	120.28
1	13	68	MET	C-N-CA	5.26	127.32	120.28
1	aV	229	ARG	CA-C-O	5.26	126.88	120.57
1	b4	161	PHE	N-CA-CB	5.26	119.37	110.49
1	16	161	PHE	CA-CB-CG	-5.26	108.54	113.80
1	bc	84	HIS	CG-CD2-NE2	5.26	112.46	107.20
1	be	35	GLU	N-CA-C	5.26	117.01	111.28
1	17	181	VAL	CA-CB-CG1	5.26	119.34	110.40
1	18	90	PRO	N-CA-CB	-5.26	98.26	102.36
1	bE	24	VAL	N-CA-C	5.26	115.47	110.42
1	bO	120	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	bQ	104	ILE	N-CA-C	5.26	116.03	110.72
1	bV	5	ASN	N-CA-C	5.26	118.12	109.76
1	cz	226	HIS	CG-CD2-NE2	5.26	112.46	107.20
1	cH	229	ARG	N-CA-C	5.26	117.47	108.90
1	cH	230	VAL	CA-C-O	-5.26	118.06	122.63
1	cR	87	HIS	CB-CG-CD2	-5.26	124.37	131.20
1	cU	110	THR	CA-C-N	5.26	127.32	120.28
1	cU	110	THR	C-N-CA	5.26	127.32	120.28
1	d1	132	ARG	CG-CD-NE	-5.26	100.44	112.00
1	dA	13	GLN	CB-CG-CD	5.26	121.53	112.60
1	dB	154	ARG	NE-CZ-NH2	-5.26	114.47	119.20
1	dF	172	LEU	O-C-N	-5.26	116.03	122.34
1	dJ	120	HIS	CB-CG-ND1	5.26	130.59	122.70
1	dK	54	THR	N-CA-C	5.26	117.01	111.28
1	eb	91	ILE	N-CA-C	5.26	115.98	110.62
1	eh	215	MET	CA-C-O	-5.26	114.98	120.55
1	et	182	LYS	CA-C-N	5.26	127.85	120.28
1	et	182	LYS	C-N-CA	5.26	127.85	120.28
1	ey	71	GLU	N-CA-CB	5.26	117.85	110.12
1	eI	212	GLU	N-CA-C	5.26	120.04	111.37
1	eM	151	LEU	CA-C-N	5.26	131.60	122.56
1	eM	151	LEU	C-N-CA	5.26	131.60	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f5	93	PRO	CA-C-N	5.26	130.97	122.09
1	f5	93	PRO	C-N-CA	5.26	130.97	122.09
1	ff	144	MET	O-C-N	5.26	128.37	122.27
1	fm	16	SER	CA-C-N	5.26	125.06	119.28
1	fm	16	SER	C-N-CA	5.26	125.06	119.28
1	fr	111	LEU	O-C-N	-5.26	116.55	122.12
1	ft	220	GLY	N-CA-C	5.26	118.85	112.49
1	fv	67	GLN	N-CA-C	5.26	116.69	111.07
1	fC	19	THR	N-CA-CB	5.26	118.43	110.28
1	1y	5	ASN	O-C-N	-5.26	114.61	122.39
1	fM	68	MET	CA-C-N	5.26	127.75	120.29
1	fM	68	MET	C-N-CA	5.26	127.75	120.29
1	fV	197	ASP	CA-CB-CG	-5.26	107.34	112.60
1	g0	124	ILE	N-CA-C	-5.26	102.35	107.55
1	b	214	MET	N-CA-C	5.26	117.42	111.11
1	e	212	GLU	CA-CB-CG	5.26	124.61	114.10
1	j	14	ALA	CA-C-N	5.26	127.54	120.50
1	j	14	ALA	C-N-CA	5.26	127.54	120.50
1	m	62	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	t	94	GLY	CA-C-N	5.26	128.55	120.82
1	t	94	GLY	C-N-CA	5.26	128.55	120.82
1	t	117	TRP	CB-CG-CD1	5.26	134.79	126.90
1	w	221	VAL	O-C-N	-5.26	117.52	123.20
1	C	34	PRO	N-CA-C	-5.26	107.56	114.03
1	C	120	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
1	3	111	LEU	O-C-N	-5.26	116.62	122.09
1	H	113	GLU	N-CA-CB	-5.26	102.38	110.16
1	I	128	GLU	N-CA-C	5.26	117.42	111.11
1	W	84	HIS	CA-C-N	5.26	125.26	119.90
1	W	84	HIS	C-N-CA	5.26	125.26	119.90
1	6	220	GLY	CA-C-N	5.26	128.22	120.91
1	6	220	GLY	C-N-CA	5.26	128.22	120.91
1	gx	227	LYS	CA-C-N	5.25	130.84	121.75
1	gx	227	LYS	C-N-CA	5.25	130.84	121.75
1	gI	180	GLU	O-C-N	-5.25	116.62	122.09
1	gJ	105	ALA	CA-C-N	5.25	130.56	122.20
1	gJ	105	ALA	C-N-CA	5.25	130.56	122.20
1	gJ	129	ILE	N-CA-CB	5.25	116.35	110.62
1	hp	115	ILE	N-CA-CB	-5.25	102.70	110.58
1	hs	184	TRP	CA-C-O	5.25	126.34	120.82
1	hy	106	GLY	CA-C-N	5.25	127.27	120.44
1	hy	106	GLY	C-N-CA	5.25	127.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1K	116	GLY	CA-C-O	5.25	126.67	121.00
1	hK	97	ARG	CG-CD-NE	-5.25	100.44	112.00
1	hO	135	ILE	N-CA-CB	5.25	117.04	110.47
1	hP	213	GLU	O-C-N	-5.25	116.55	122.12
1	i3	159	GLU	N-CA-CB	-5.25	101.81	109.90
1	i3	169	TYR	O-C-N	-5.25	116.55	122.12
1	ih	62	HIS	CA-C-N	5.25	127.64	120.54
1	ih	62	HIS	C-N-CA	5.25	127.64	120.54
1	iv	87	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	j9	39	MET	N-CA-C	5.25	117.75	111.71
1	1Y	140	LYS	CA-C-O	5.25	126.34	120.82
1	jU	112	GLN	N-CA-C	5.25	117.01	111.28
1	jY	195	ASN	OD1-CG-ND2	-5.25	117.34	122.60
1	l2	50	GLN	OE1-CD-NE2	5.25	127.86	122.60
1	l8	8	GLY	CA-C-N	5.25	129.19	120.94
1	l8	8	GLY	C-N-CA	5.25	129.19	120.94
1	lb	190	LEU	CB-CA-C	-5.25	102.56	110.92
1	lz	150	ILE	O-C-N	-5.25	116.07	122.06
1	lJ	89	GLY	O-C-N	5.25	127.03	121.77
1	lO	100	ARG	CA-C-O	5.25	127.98	121.94
1	lR	176	GLN	OE1-CD-NE2	-5.25	117.34	122.60
1	2F	30	LYS	N-CA-C	5.25	119.44	113.19
1	2L	228	ALA	N-CA-C	5.25	118.84	111.90
1	32	50	GLN	CA-C-O	-5.25	115.30	120.82
1	3L	191	VAL	CA-CB-CG1	5.25	119.33	110.40
1	3P	100	ARG	N-CA-CB	5.25	117.58	110.38
1	4G	24	VAL	CB-CA-C	5.25	119.23	112.14
1	4R	154	ARG	CG-CD-NE	-5.25	100.44	112.00
1	4T	139	ASN	CA-C-O	5.25	126.12	120.55
1	4X	145	TYR	N-CA-CB	-5.25	102.89	110.56
1	53	62	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	54	149	SER	CA-C-N	5.25	127.94	120.53
1	54	149	SER	C-N-CA	5.25	127.94	120.53
1	56	131	LYS	CA-C-O	-5.25	115.28	120.90
1	5b	206	GLY	N-CA-C	5.25	123.06	112.34
1	5v	223	GLY	N-CA-C	5.25	123.06	112.34
1	67	197	ASP	CA-CB-CG	5.25	117.86	112.60
1	69	19	THR	OG1-CB-CG2	-5.25	98.79	109.30
1	69	96	MET	O-C-N	-5.25	117.06	123.10
1	6z	121	ASN	OD1-CG-ND2	-5.25	117.34	122.60
1	6P	29	GLU	N-CA-CB	-5.25	102.43	110.26
1	72	87	HIS	ND1-CE1-NE2	5.25	113.66	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7c	221	VAL	CA-C-N	5.25	131.71	121.41
1	7c	221	VAL	C-N-CA	5.25	131.71	121.41
1	7d	125	PRO	N-CA-CB	5.25	106.22	102.28
1	86	179	GLN	OE1-CD-NE2	-5.25	117.34	122.60
1	8g	226	HIS	N-CA-C	5.25	117.85	110.23
1	8G	31	ALA	N-CA-C	5.25	118.79	112.38
1	92	166	ASP	CB-CA-C	5.25	119.78	110.85
1	9v	203	LYS	N-CA-C	5.25	117.92	111.82
1	9z	134	ILE	CA-CB-CG1	5.25	119.33	110.40
1	9B	160	PRO	N-CA-C	5.25	119.56	111.21
1	9I	18	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	9X	81	ASP	O-C-N	-5.25	116.66	122.07
1	af	19	THR	CA-CB-CG2	5.25	119.43	110.50
1	ar	84	HIS	CG-CD2-NE2	5.25	112.45	107.20
1	at	66	MET	O-C-N	-5.25	116.62	122.09
1	aH	118	MET	N-CA-C	5.25	117.01	111.28
1	aM	212	GLU	N-CA-C	5.25	117.42	111.11
1	aW	42	ALA	CA-C-N	5.25	128.30	120.31
1	aW	42	ALA	C-N-CA	5.25	128.30	120.31
1	15	141	ILE	O-C-N	-5.25	115.86	121.80
1	17	132	ARG	N-CA-C	-5.25	105.72	111.82
1	bm	102	SER	CA-C-N	5.25	127.27	120.44
1	bm	102	SER	C-N-CA	5.25	127.27	120.44
1	c0	127	GLY	CA-C-N	5.25	128.09	120.79
1	c0	127	GLY	C-N-CA	5.25	128.09	120.79
1	c1	226	HIS	CA-C-N	5.25	127.27	120.44
1	c1	226	HIS	C-N-CA	5.25	127.27	120.44
1	c3	195	ASN	CA-C-N	5.25	126.41	119.84
1	c3	195	ASN	C-N-CA	5.25	126.41	119.84
1	cb	206	GLY	CA-C-O	-5.25	114.00	121.52
1	cX	123	PRO	N-CA-CB	-5.25	98.44	103.33
1	da	112	GLN	O-C-N	-5.25	116.55	122.12
1	dE	211	LEU	CA-C-O	5.25	126.01	119.97
1	dH	84	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	dI	165	VAL	CA-C-N	5.25	127.27	120.44
1	dI	165	VAL	C-N-CA	5.25	127.27	120.44
1	ed	185	MET	CG-SD-CE	-5.25	89.34	100.90
1	1r	101	GLY	N-CA-C	5.25	120.12	113.24
1	eL	201	ILE	CA-C-O	5.25	126.74	121.17
1	fl	151	LEU	CA-C-O	5.25	125.14	119.15
1	fL	46	GLY	CA-C-N	5.25	129.19	120.94
1	fL	46	GLY	C-N-CA	5.25	129.19	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fL	121	ASN	CA-C-O	-5.25	114.82	119.86
1	V	139	ASN	CA-CB-CG	5.25	117.86	112.60
1	gd	180	GLU	CB-CA-C	-5.25	102.07	110.79
1	ge	216	THR	CA-C-N	5.25	128.31	120.90
1	ge	216	THR	C-N-CA	5.25	128.31	120.90
1	gg	143	ARG	CA-C-N	5.25	127.58	120.38
1	gg	143	ARG	C-N-CA	5.25	127.58	120.38
1	gn	111	LEU	CA-C-N	5.25	127.32	120.28
1	gn	111	LEU	C-N-CA	5.25	127.32	120.28
1	1D	48	THR	N-CA-C	-5.25	103.52	110.40
1	gs	124	ILE	O-C-N	-5.25	115.11	121.10
1	gt	111	LEU	O-C-N	-5.25	115.60	122.59
1	gv	53	ASN	O-C-N	-5.25	116.55	122.12
1	1E	22	ALA	O-C-N	-5.25	116.66	122.07
1	1G	86	VAL	CA-C-N	5.25	128.17	120.71
1	1G	86	VAL	C-N-CA	5.25	128.17	120.71
1	1G	125	PRO	CB-CA-C	-5.25	105.46	112.97
1	h2	103	ASP	CA-CB-CG	5.25	117.85	112.60
1	h2	187	GLU	CA-C-O	5.25	125.99	120.42
1	h6	63	GLN	CA-C-N	5.25	127.32	120.28
1	h6	63	GLN	C-N-CA	5.25	127.32	120.28
1	h7	155	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	hg	32	PHE	CA-C-O	5.25	125.50	119.35
1	hk	93	PRO	N-CA-C	5.25	119.46	111.11
1	hq	12	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	hO	197	ASP	N-CA-C	5.25	116.69	111.07
1	hT	103	ASP	N-CA-CB	5.25	117.63	110.01
1	hU	114	GLN	CA-C-N	5.25	127.66	120.46
1	hU	114	GLN	C-N-CA	5.25	127.66	120.46
1	iu	30	LYS	CA-C-O	5.25	124.73	118.69
1	iw	142	VAL	CB-CA-C	-5.25	105.16	112.04
1	iB	25	LYS	O-C-N	-5.25	115.39	122.43
1	iF	181	VAL	N-CA-C	5.25	115.98	110.62
1	iI	51	ASP	N-CA-C	-5.25	105.45	111.07
1	iX	86	VAL	N-CA-CB	5.25	118.96	110.13
1	iZ	185	MET	CA-C-N	5.25	127.27	120.44
1	iZ	185	MET	C-N-CA	5.25	127.27	120.44
1	1T	5	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	j4	39	MET	CA-C-N	5.25	127.63	120.54
1	j4	39	MET	C-N-CA	5.25	127.63	120.54
1	j4	186	THR	N-CA-C	-5.25	106.38	112.89
1	j8	102	SER	O-C-N	-5.25	116.16	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j9	26	VAL	CA-C-N	5.25	127.88	120.42
1	j9	26	VAL	C-N-CA	5.25	127.88	120.42
1	1U	62	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	jc	207	PRO	N-CA-CB	5.25	107.73	103.32
1	jC	150	ILE	O-C-N	-5.25	115.71	122.17
1	jC	229	ARG	NH1-CZ-NH2	-5.25	112.47	119.30
1	jH	180	GLU	CA-C-O	5.25	126.12	120.55
1	1Y	133	TRP	O-C-N	-5.25	116.42	122.09
1	jQ	17	PRO	N-CD-CG	5.25	111.08	103.20
1	jV	87	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	k0	70	LYS	O-C-N	-5.25	115.81	122.27
1	k7	142	VAL	CA-C-N	5.25	127.58	120.38
1	k7	142	VAL	C-N-CA	5.25	127.58	120.38
1	k9	72	THR	CA-C-O	-5.25	115.28	120.90
1	kf	193	ASN	N-CA-C	-5.25	106.10	112.88
1	kg	204	ALA	N-CA-C	5.25	116.81	111.14
1	kh	41	SER	CA-C-N	5.25	127.75	120.29
1	kh	41	SER	C-N-CA	5.25	127.75	120.29
1	ki	55	MET	CA-C-O	5.25	126.31	120.63
1	21	15	ILE	CA-C-N	5.25	128.91	121.61
1	21	15	ILE	C-N-CA	5.25	128.91	121.61
1	21	204	ALA	N-CA-CB	-5.25	102.37	110.20
1	kl	175	GLU	CA-C-O	-5.25	113.59	119.95
1	ky	101	GLY	CA-C-O	-5.25	115.34	120.75
1	kD	184	TRP	N-CA-CB	-5.25	102.40	110.12
1	kI	119	THR	O-C-N	-5.25	115.77	122.34
1	kQ	159	GLU	CB-CA-C	-5.25	104.97	110.17
1	l5	174	ALA	CA-C-N	5.25	129.49	120.72
1	l5	174	ALA	C-N-CA	5.25	129.49	120.72
1	l5	213	GLU	O-C-N	-5.25	116.42	122.09
1	26	196	PRO	CA-C-N	5.25	127.27	120.44
1	26	196	PRO	C-N-CA	5.25	127.27	120.44
1	la	175	GLU	O-C-N	-5.25	116.41	122.87
1	lk	200	THR	CA-C-N	5.25	127.18	120.56
1	lk	200	THR	C-N-CA	5.25	127.18	120.56
1	ll	120	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	lq	124	ILE	CB-CA-C	-5.25	105.09	110.71
1	lq	172	LEU	CA-C-N	5.25	127.27	120.44
1	lq	172	LEU	C-N-CA	5.25	127.27	120.44
1	lB	113	GLU	N-CA-C	5.25	117.09	111.36
1	lF	204	ALA	N-CA-C	-5.25	107.04	113.50
1	lN	221	VAL	N-CA-C	-5.25	106.76	113.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2m	50	GLN	CA-C-N	5.25	127.32	120.28
1	2m	50	GLN	C-N-CA	5.25	127.32	120.28
1	2m	121	ASN	CA-C-O	-5.25	114.51	119.55
1	2o	195	ASN	CA-C-N	5.25	125.56	119.47
1	2o	195	ASN	C-N-CA	5.25	125.56	119.47
1	2r	99	PRO	N-CA-CB	5.25	108.77	103.25
1	2D	110	THR	O-C-N	5.25	129.36	123.27
1	2E	173	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	2E	227	LYS	CG-CD-CE	5.25	123.38	111.30
1	2L	175	GLU	CB-CA-C	5.25	118.94	109.64
1	2V	139	ASN	CA-CB-CG	-5.25	107.35	112.60
1	37	11	VAL	CA-CB-CG2	-5.25	101.47	110.40
1	3a	84	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	3f	41	SER	N-CA-C	5.25	117.01	111.28
1	3l	4	GLN	N-CA-C	-5.25	102.75	110.52
1	3v	75	GLU	N-CA-CB	5.25	117.84	110.12
1	3y	214	MET	O-C-N	-5.25	115.81	122.27
1	3z	146	SER	O-C-N	-5.25	115.55	121.43
1	3C	16	SER	CB-CA-C	-5.25	103.09	110.13
1	3I	173	ARG	CA-C-O	5.25	126.34	120.82
1	3L	66	MET	N-CA-C	5.25	116.69	111.07
1	3T	82	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	40	31	ALA	CA-C-O	-5.25	115.37	121.15
1	41	59	VAL	CB-CA-C	-5.25	104.93	111.08
1	43	137	GLY	N-CA-C	5.25	118.59	112.50
1	4a	152	ASP	O-C-N	-5.25	114.95	122.41
1	4c	12	HIS	CA-CB-CG	5.25	119.05	113.80
1	4c	111	LEU	CA-C-N	5.25	127.63	120.54
1	4c	111	LEU	C-N-CA	5.25	127.63	120.54
1	4h	54	THR	CB-CA-C	5.25	119.51	110.79
1	4h	59	VAL	N-CA-C	5.25	115.82	108.89
1	4s	73	ILE	CA-CB-CG1	5.25	119.33	110.40
1	4z	19	THR	CA-C-N	5.25	127.32	120.28
1	4z	19	THR	C-N-CA	5.25	127.32	120.28
1	4G	104	ILE	CA-C-N	5.25	129.50	120.72
1	4G	104	ILE	C-N-CA	5.25	129.50	120.72
1	4I	91	ILE	CA-C-O	-5.25	115.62	121.98
1	4O	52	LEU	CA-C-N	5.25	127.32	120.28
1	4O	52	LEU	C-N-CA	5.25	127.32	120.28
1	4Y	198	CYS	N-CA-CB	5.25	117.63	110.01
1	53	169	TYR	CB-CG-CD1	-5.25	112.92	120.80
1	54	52	LEU	O-C-N	-5.25	116.66	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	59	114	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	5a	161	PHE	CA-C-N	5.25	127.58	120.38
1	5a	161	PHE	C-N-CA	5.25	127.58	120.38
1	5p	179	GLN	O-C-N	-5.25	116.63	122.09
1	5q	173	ARG	NE-CZ-NH2	5.25	123.93	119.20
1	5E	168	PHE	CA-C-N	5.25	127.84	120.28
1	5E	168	PHE	C-N-CA	5.25	127.84	120.28
1	5K	181	VAL	N-CA-C	5.25	116.03	110.72
1	5Q	74	ASN	CA-C-O	5.25	126.12	120.55
1	6a	155	GLN	CA-C-N	-5.25	114.64	121.36
1	6a	155	GLN	C-N-CA	-5.25	114.64	121.36
1	6b	135	ILE	N-CA-C	5.25	116.03	110.72
1	6c	192	GLN	CG-CD-NE2	5.25	124.28	116.40
1	6d	150	ILE	CA-CB-CG1	5.25	119.33	110.40
1	6v	117	TRP	CG-CD2-CE3	-5.25	128.65	133.90
1	6y	209	ALA	O-C-N	-5.25	116.44	122.95
1	6D	79	GLU	O-C-N	-5.25	116.66	122.07
1	6T	67	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	6U	197	ASP	CA-CB-CG	5.25	117.85	112.60
1	7a	72	THR	CA-C-N	5.25	127.28	120.56
1	7a	72	THR	C-N-CA	5.25	127.28	120.56
1	7c	98	GLU	O-C-N	-5.25	115.85	121.42
1	7k	227	LYS	CA-C-O	5.25	125.68	119.48
1	7l	120	HIS	ND1-CG-CD2	5.25	111.35	106.10
1	7C	177	ALA	N-CA-C	5.25	116.27	108.60
1	7F	18	ARG	CA-C-O	5.25	126.34	120.82
1	7L	229	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	7U	116	GLY	O-C-N	-5.25	117.15	122.19
1	7V	32	PHE	O-C-N	-5.25	115.61	122.39
1	87	152	ASP	CA-C-O	5.25	125.57	119.32
1	88	58	THR	OG1-CB-CG2	-5.25	98.79	109.30
1	8b	132	ARG	CA-C-N	5.25	127.32	120.28
1	8b	132	ARG	C-N-CA	5.25	127.32	120.28
1	8c	133	TRP	O-C-N	-5.25	116.55	122.12
1	8d	226	HIS	CA-C-O	5.25	124.68	118.90
1	8l	24	VAL	N-CA-C	5.25	115.98	110.62
1	8p	156	GLY	CA-C-N	5.25	125.31	119.32
1	8p	156	GLY	C-N-CA	5.25	125.31	119.32
1	8r	18	ARG	N-CA-C	-5.25	105.56	111.28
1	8r	170	LYS	CA-C-N	5.25	127.27	120.44
1	8r	170	LYS	C-N-CA	5.25	127.27	120.44
1	8C	124	ILE	CA-C-O	5.25	125.62	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8C	144	MET	O-C-N	-5.25	116.07	122.22
1	8E	116	GLY	CA-C-N	5.25	127.27	120.44
1	8E	116	GLY	C-N-CA	5.25	127.27	120.44
1	8F	229	ARG	CG-CD-NE	-5.25	100.44	112.00
1	98	48	THR	N-CA-C	5.25	117.33	110.08
1	98	132	ARG	CA-C-N	5.25	128.30	120.31
1	98	132	ARG	C-N-CA	5.25	128.30	120.31
1	9i	167	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	9r	122	PRO	CA-C-N	5.25	125.26	119.90
1	9r	122	PRO	C-N-CA	5.25	125.26	119.90
1	9t	167	ARG	CA-C-N	5.25	127.27	120.44
1	9t	167	ARG	C-N-CA	5.25	127.27	120.44
1	9E	190	LEU	CB-CA-C	5.25	119.13	110.88
1	9M	179	GLN	O-C-N	-5.25	116.07	122.22
1	9Y	66	MET	O-C-N	5.25	127.69	122.12
1	9Y	115	ILE	CA-CB-CG1	5.25	119.33	110.40
1	a1	128	GLU	N-CA-CB	5.25	117.63	110.01
1	11	81	ASP	CA-CB-CG	-5.25	107.35	112.60
1	ak	43	LEU	N-CA-C	5.25	117.01	111.28
1	12	167	ARG	N-CA-C	5.25	117.00	111.28
1	aU	155	GLN	CA-C-N	5.25	130.12	121.87
1	aU	155	GLN	C-N-CA	5.25	130.12	121.87
1	aZ	229	ARG	NH1-CZ-NH2	-5.25	112.47	119.30
1	bv	109	SER	CA-C-O	5.25	126.63	120.80
1	bF	22	ALA	N-CA-CB	5.25	117.84	110.12
1	bF	154	ARG	CA-C-O	-5.25	114.96	121.11
1	bO	125	PRO	CA-C-N	5.25	127.88	120.42
1	bO	125	PRO	C-N-CA	5.25	127.88	120.42
1	bX	57	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	c8	126	VAL	O-C-N	-5.25	116.56	121.87
1	ca	26	VAL	N-CA-C	5.25	115.88	110.36
1	cg	137	GLY	CA-C-N	5.25	127.32	120.28
1	cg	137	GLY	C-N-CA	5.25	127.32	120.28
1	ck	149	SER	N-CA-C	-5.25	101.08	109.07
1	cO	142	VAL	CA-C-N	5.25	127.32	120.28
1	cO	142	VAL	C-N-CA	5.25	127.32	120.28
1	cT	182	LYS	N-CA-C	5.25	117.01	111.28
1	cZ	61	GLY	N-CA-C	5.25	121.13	112.30
1	d6	83	LEU	CA-C-O	5.25	125.99	120.42
1	d6	141	ILE	CA-C-O	5.25	126.74	121.17
1	d6	221	VAL	O-C-N	-5.25	116.52	122.72
1	dd	177	ALA	N-CA-CB	5.25	117.69	109.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	df	43	LEU	O-C-N	-5.25	115.54	122.42
1	dh	68	MET	CA-C-N	5.25	127.63	120.54
1	dh	68	MET	C-N-CA	5.25	127.63	120.54
1	dh	226	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	dm	86	VAL	N-CA-CB	5.25	116.83	110.95
1	dq	14	ALA	O-C-N	-5.25	116.60	122.75
1	dq	110	THR	CA-C-N	5.25	127.32	120.28
1	dq	110	THR	C-N-CA	5.25	127.32	120.28
1	dK	135	ILE	N-CA-C	5.25	115.98	110.62
1	dL	132	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	1n	183	ASN	CA-C-O	5.25	126.34	120.82
1	1o	12	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	e6	85	PRO	CA-C-N	5.25	130.09	123.10
1	e6	85	PRO	C-N-CA	5.25	130.09	123.10
1	ea	37	ILE	O-C-N	-5.25	115.11	121.10
1	ec	26	VAL	N-CA-CB	5.25	116.70	110.55
1	ef	67	GLN	N-CA-C	5.25	116.69	111.07
1	en	148	THR	CA-C-N	5.25	128.33	120.87
1	en	148	THR	C-N-CA	5.25	128.33	120.87
1	et	54	THR	CA-CB-OG1	-5.25	101.72	109.60
1	et	212	GLU	CA-C-N	5.25	127.32	120.28
1	et	212	GLU	C-N-CA	5.25	127.32	120.28
1	eA	55	MET	N-CA-C	5.25	117.00	111.28
1	eA	188	THR	CA-C-N	5.25	127.32	120.28
1	eA	188	THR	C-N-CA	5.25	127.32	120.28
1	eR	148	THR	CA-C-N	5.25	131.05	122.07
1	eR	148	THR	C-N-CA	5.25	131.05	122.07
1	eV	216	THR	N-CA-C	-5.25	106.72	113.23
1	eX	132	ARG	CB-CG-CD	5.25	123.38	111.30
1	eX	177	ALA	N-CA-C	5.25	117.31	110.43
1	f1	36	VAL	CA-C-O	5.25	126.42	120.85
1	f3	115	ILE	CA-C-N	5.25	125.77	119.94
1	f3	115	ILE	C-N-CA	5.25	125.77	119.94
1	fq	131	LYS	CA-C-O	-5.25	114.98	120.55
1	ft	100	ARG	N-CA-C	-5.25	102.42	110.14
1	fv	134	ILE	CA-C-N	5.25	127.18	120.56
1	fv	134	ILE	C-N-CA	5.25	127.18	120.56
1	fM	131	LYS	CG-CD-CE	5.25	123.38	111.30
1	fS	27	VAL	N-CA-CB	5.25	118.46	110.58
1	g3	13	GLN	CA-C-N	5.25	129.19	120.94
1	g3	13	GLN	C-N-CA	5.25	129.19	120.94
1	g	176	GLN	CB-CA-C	-5.25	104.43	111.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i	17	PRO	CA-C-N	5.25	127.32	120.28
1	i	17	PRO	C-N-CA	5.25	127.32	120.28
1	i	72	THR	N-CA-C	5.25	117.01	111.28
1	m	22	ALA	CA-C-N	5.25	127.27	120.44
1	m	22	ALA	C-N-CA	5.25	127.27	120.44
1	B	98	GLU	N-CA-C	5.25	117.05	109.48
1	J	193	ASN	N-CA-CB	5.25	118.36	110.53
1	g8	54	THR	CA-C-N	5.25	127.32	120.28
1	g8	54	THR	C-N-CA	5.25	127.32	120.28
1	gd	31	ALA	N-CA-C	5.25	117.00	111.28
1	1C	188	THR	CA-C-N	5.25	127.27	120.44
1	1C	188	THR	C-N-CA	5.25	127.27	120.44
1	gn	159	GLU	O-C-N	-5.25	118.35	121.71
1	go	81	ASP	CA-CB-CG	5.25	117.85	112.60
1	gq	80	TRP	CB-CG-CD1	5.25	134.78	126.90
1	gy	122	PRO	CA-C-N	5.25	125.23	120.03
1	gy	122	PRO	C-N-CA	5.25	125.23	120.03
1	gB	185	MET	N-CA-C	5.25	117.00	111.28
1	gD	74	ASN	CA-CB-CG	-5.25	107.35	112.60
1	1F	10	MET	N-CA-C	5.25	117.84	110.23
1	gP	229	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	h0	25	LYS	CA-C-N	5.25	127.28	120.56
1	h0	25	LYS	C-N-CA	5.25	127.28	120.56
1	ha	80	TRP	CA-C-N	5.25	127.75	120.29
1	ha	80	TRP	C-N-CA	5.25	127.75	120.29
1	hk	218	CYS	CA-C-O	5.25	123.49	119.18
1	hs	14	ALA	N-CA-CB	-5.25	101.72	110.23
1	hv	84	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	hv	151	LEU	CA-C-N	5.25	131.35	122.26
1	hv	151	LEU	C-N-CA	5.25	131.35	122.26
1	hD	96	MET	N-CA-CB	-5.25	102.39	110.16
1	hH	82	ARG	CA-C-N	5.25	127.32	120.28
1	hH	82	ARG	C-N-CA	5.25	127.32	120.28
1	hH	117	TRP	CA-C-N	5.25	129.49	120.72
1	hH	117	TRP	C-N-CA	5.25	129.49	120.72
1	hL	68	MET	N-CA-C	5.25	117.00	111.28
1	hS	132	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	id	179	GLN	CA-C-N	5.25	127.32	120.28
1	id	179	GLN	C-N-CA	5.25	127.32	120.28
1	ig	55	MET	O-C-N	-5.25	116.66	122.07
1	ih	148	THR	O-C-N	-5.25	116.47	122.93
1	io	206	GLY	N-CA-C	5.25	123.05	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iq	147	PRO	N-CA-CB	-5.25	97.74	103.25
1	ir	115	ILE	N-CA-CB	5.25	117.68	110.54
1	iw	115	ILE	O-C-N	-5.25	116.76	121.91
1	iC	192	GLN	CA-C-O	-5.25	114.98	120.55
1	iQ	198	CYS	CA-C-N	5.25	127.32	120.28
1	iQ	198	CYS	C-N-CA	5.25	127.32	120.28
1	1S	87	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	iV	1	PRO	CA-C-N	5.25	127.62	120.63
1	iV	1	PRO	C-N-CA	5.25	127.62	120.63
1	j6	63	GLN	CA-C-N	5.25	127.27	120.44
1	j6	63	GLN	C-N-CA	5.25	127.27	120.44
1	jq	149	SER	N-CA-CB	5.25	119.36	110.49
1	jw	112	GLN	CA-C-O	5.25	126.12	120.55
1	jM	112	GLN	CG-CD-NE2	-5.25	108.52	116.40
1	jR	139	ASN	CA-C-O	-5.25	114.98	120.55
1	jS	35	GLU	N-CA-C	5.25	118.47	111.75
1	k0	220	GLY	CA-C-N	5.25	129.06	121.18
1	k0	220	GLY	C-N-CA	5.25	129.06	121.18
1	k1	211	LEU	O-C-N	-5.25	116.55	122.12
1	k2	185	MET	CG-SD-CE	5.25	112.45	100.90
1	ke	204	ALA	N-CA-C	5.25	119.44	113.19
1	kh	183	ASN	CB-CA-C	-5.25	101.92	110.85
1	ki	78	ALA	N-CA-C	5.25	117.00	111.28
1	kl	13	GLN	CA-C-N	5.25	128.17	120.71
1	kl	13	GLN	C-N-CA	5.25	128.17	120.71
1	22	132	ARG	CD-NE-CZ	5.25	131.75	124.40
1	23	206	GLY	CA-C-N	5.25	125.33	119.87
1	23	206	GLY	C-N-CA	5.25	125.33	119.87
1	kI	32	PHE	N-CA-CB	5.25	118.99	110.43
1	lb	29	GLU	CB-CG-CD	5.25	121.53	112.60
1	lb	58	THR	CA-C-O	5.25	125.43	119.18
1	lj	92	GLU	O-C-N	-5.25	115.77	120.71
1	29	110	THR	N-CA-CB	5.25	117.77	110.26
1	lL	37	ILE	CA-C-O	-5.25	115.17	118.69
1	2h	152	ASP	CA-C-N	5.25	128.12	120.98
1	2h	152	ASP	C-N-CA	5.25	128.12	120.98
1	2i	14	ALA	CB-CA-C	-5.25	101.31	109.61
1	2s	141	ILE	CA-C-N	5.25	127.65	120.46
1	2s	141	ILE	C-N-CA	5.25	127.65	120.46
1	2t	214	MET	N-CA-CB	5.25	117.84	110.12
1	2G	112	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	2I	107	THR	CA-C-O	-5.25	114.98	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2L	109	SER	N-CA-CB	5.25	118.81	110.57
1	2N	117	TRP	N-CA-CB	-5.25	102.14	110.28
1	2N	215	MET	O-C-N	-5.25	116.55	122.12
1	33	201	ILE	CA-C-N	5.25	127.75	120.29
1	33	201	ILE	C-N-CA	5.25	127.75	120.29
1	34	18	ARG	NE-CZ-NH2	-5.25	114.47	119.20
1	3f	208	ALA	O-C-N	-5.25	115.12	122.37
1	3k	218	CYS	N-CA-CB	5.25	119.37	110.49
1	3w	24	VAL	CB-CA-C	5.25	118.69	111.97
1	3R	62	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	3T	170	LYS	O-C-N	-5.25	116.55	122.12
1	49	43	LEU	O-C-N	-5.25	115.54	122.42
1	4b	4	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	4g	76	GLU	CA-C-N	5.25	127.75	120.29
1	4g	76	GLU	C-N-CA	5.25	127.75	120.29
1	4g	137	GLY	O-C-N	-5.25	117.15	122.19
1	4q	18	ARG	N-CA-CB	-5.25	102.40	110.12
1	4s	188	THR	CA-C-N	5.25	127.63	120.54
1	4s	188	THR	C-N-CA	5.25	127.63	120.54
1	4v	45	GLU	CB-CA-C	-5.25	101.24	109.70
1	4w	187	GLU	N-CA-C	5.25	119.40	112.89
1	4y	68	MET	CG-SD-CE	-5.25	89.35	100.90
1	4O	141	ILE	CA-C-N	5.25	127.66	120.46
1	4O	141	ILE	C-N-CA	5.25	127.66	120.46
1	4U	183	ASN	CB-CA-C	5.25	119.21	110.81
1	4V	204	ALA	N-CA-C	5.25	117.00	111.28
1	59	97	ARG	CD-NE-CZ	5.25	131.75	124.40
1	5l	149	SER	CA-C-N	5.25	127.66	120.46
1	5l	149	SER	C-N-CA	5.25	127.66	120.46
1	5q	120	HIS	CA-CB-CG	5.25	119.05	113.80
1	5A	97	ARG	CG-CD-NE	-5.25	100.45	112.00
1	5A	198	CYS	CA-C-N	5.25	127.32	120.28
1	5A	198	CYS	C-N-CA	5.25	127.32	120.28
1	5D	194	ALA	O-C-N	-5.25	116.35	122.81
1	5I	126	VAL	CA-C-N	5.25	125.77	119.94
1	5I	126	VAL	C-N-CA	5.25	125.77	119.94
1	5J	212	GLU	N-CA-C	5.25	117.68	111.33
1	5N	48	THR	CA-C-O	-5.25	115.87	120.60
1	5O	207	PRO	N-CA-C	5.25	119.33	111.14
1	5W	49	PRO	CB-CA-C	5.25	120.23	111.56
1	5Y	76	GLU	N-CA-CB	5.25	117.93	110.16
1	60	41	SER	N-CA-CB	-5.25	102.39	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6d	221	VAL	N-CA-C	5.25	116.35	109.58
1	6f	43	LEU	O-C-N	-5.25	115.54	122.42
1	6h	206	GLY	O-C-N	5.25	127.02	121.77
1	6s	9	GLN	CB-CA-C	-5.25	101.74	110.14
1	6y	213	GLU	N-CA-CB	5.25	117.77	109.94
1	6z	133	TRP	CA-CB-CG	5.25	123.58	113.60
1	6G	112	GLN	O-C-N	-5.25	116.55	122.12
1	6N	102	SER	CA-C-O	5.25	125.82	119.31
1	6T	177	ALA	N-CA-C	5.25	117.49	110.35
1	6U	73	ILE	CA-CB-CG2	5.25	119.43	110.50
1	7m	57	ASN	CA-CB-CG	-5.25	107.35	112.60
1	7s	154	ARG	CG-CD-NE	-5.25	100.45	112.00
1	7H	15	ILE	O-C-N	-5.25	117.31	122.67
1	7O	14	ALA	O-C-N	-5.25	116.24	122.65
1	7T	56	LEU	N-CA-C	5.25	117.00	111.28
1	7U	191	VAL	CA-C-N	5.25	127.63	120.54
1	7U	191	VAL	C-N-CA	5.25	127.63	120.54
1	7W	28	GLU	N-CA-C	5.25	117.41	111.11
1	86	184	TRP	CA-C-N	5.25	127.63	120.54
1	86	184	TRP	C-N-CA	5.25	127.63	120.54
1	88	34	PRO	CA-C-O	-5.25	112.93	118.92
1	8a	43	LEU	CA-C-N	5.25	131.19	122.73
1	8a	43	LEU	C-N-CA	5.25	131.19	122.73
1	8b	200	THR	N-CA-CB	5.25	117.84	110.12
1	8j	100	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	8p	226	HIS	CB-CG-ND1	5.25	130.58	122.70
1	8r	104	ILE	N-CA-C	5.25	115.98	110.62
1	8s	136	LEU	CA-C-N	5.25	125.81	119.98
1	8s	136	LEU	C-N-CA	5.25	125.81	119.98
1	8t	132	ARG	NH1-CZ-NH2	-5.25	112.47	119.30
1	8y	14	ALA	N-CA-C	5.25	117.49	110.35
1	8B	154	ARG	CA-C-O	-5.25	115.47	121.40
1	8C	173	ARG	CD-NE-CZ	5.25	131.75	124.40
1	8F	10	MET	O-C-N	-5.25	116.40	122.86
1	8M	84	HIS	CA-C-N	5.25	125.41	119.90
1	8M	84	HIS	C-N-CA	5.25	125.41	119.90
1	8M	138	LEU	CA-C-N	5.25	127.27	120.44
1	8M	138	LEU	C-N-CA	5.25	127.27	120.44
1	8S	183	ASN	CA-C-O	5.25	126.12	120.55
1	8T	146	SER	CA-C-O	-5.25	114.58	120.25
1	9c	215	MET	CA-C-O	5.25	125.43	119.18
1	9k	93	PRO	N-CA-CB	5.25	108.77	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	142	VAL	N-CA-C	5.25	115.98	110.62
1	9r	144	MET	N-CA-C	5.25	117.08	111.36
1	9A	228	ALA	CA-C-N	5.25	127.75	120.29
1	9A	228	ALA	C-N-CA	5.25	127.75	120.29
1	9B	33	SER	CA-C-O	-5.25	115.04	120.87
1	9F	214	MET	CA-C-N	5.25	130.48	122.29
1	9F	214	MET	C-N-CA	5.25	130.48	122.29
1	9I	3	VAL	O-C-N	-5.25	117.78	123.14
1	9J	11	VAL	O-C-N	-5.25	117.59	123.26
1	9K	79	GLU	CA-C-O	5.25	126.33	120.82
1	a8	62	HIS	CA-C-O	-5.25	115.50	121.65
1	ah	105	ALA	N-CA-CB	-5.25	102.37	110.46
1	aj	148	THR	N-CA-C	-5.25	99.61	110.80
1	11	103	ASP	CA-CB-CG	5.25	117.85	112.60
1	am	193	ASN	CA-CB-CG	-5.25	107.35	112.60
1	ap	141	ILE	N-CA-C	5.25	115.46	110.42
1	ar	194	ALA	N-CA-C	5.25	116.87	110.41
1	12	99	PRO	N-CA-CB	5.25	107.73	103.32
1	ay	14	ALA	N-CA-C	5.25	117.84	110.23
1	ay	181	VAL	CA-C-N	5.25	128.29	120.31
1	ay	181	VAL	C-N-CA	5.25	128.29	120.31
1	aD	106	GLY	CA-C-N	5.25	127.27	120.44
1	aD	106	GLY	C-N-CA	5.25	127.27	120.44
1	aE	128	GLU	CA-C-N	5.25	127.28	120.56
1	aE	128	GLU	C-N-CA	5.25	127.28	120.56
1	aU	11	VAL	CB-CA-C	-5.25	103.70	110.84
1	aV	168	PHE	N-CA-C	5.25	116.81	111.14
1	aY	163	ASP	N-CA-C	5.25	116.69	111.07
1	aZ	199	LYS	N-CA-C	5.25	117.00	111.28
1	bl	117	TRP	N-CA-C	5.25	116.69	111.07
1	bw	83	LEU	N-CA-C	-5.25	106.87	113.28
1	bx	26	VAL	CA-C-O	5.25	126.42	120.85
1	bx	84	HIS	CB-CG-CD2	-5.25	124.37	131.20
1	by	200	THR	CB-CA-C	-5.25	102.07	110.79
1	bL	198	CYS	CA-C-N	5.25	127.63	120.54
1	bL	198	CYS	C-N-CA	5.25	127.63	120.54
1	ce	84	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	ch	110	THR	CA-C-O	5.25	127.33	121.40
1	ci	210	THR	N-CA-CB	5.25	117.73	110.17
1	cy	143	ARG	N-CA-C	5.25	117.08	111.36
1	cz	224	PRO	CA-C-N	5.25	126.16	120.44
1	cz	224	PRO	C-N-CA	5.25	126.16	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1f	85	PRO	N-CA-C	5.25	119.56	111.21
1	cA	139	ASN	CA-C-N	5.25	127.32	120.28
1	cA	139	ASN	C-N-CA	5.25	127.32	120.28
1	cD	53	ASN	O-C-N	-5.25	116.55	122.12
1	cJ	226	HIS	N-CA-CB	5.25	119.86	111.20
1	1g	125	PRO	CA-C-N	5.25	127.18	120.56
1	1g	125	PRO	C-N-CA	5.25	127.18	120.56
1	cT	120	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	cX	8	GLY	O-C-N	-5.25	115.87	122.70
1	cY	109	SER	CA-C-O	5.25	126.67	120.89
1	d2	9	GLN	CA-C-N	5.25	131.57	121.54
1	d2	9	GLN	C-N-CA	5.25	131.57	121.54
1	d8	220	GLY	CA-C-N	5.25	130.51	121.63
1	d8	220	GLY	C-N-CA	5.25	130.51	121.63
1	1j	181	VAL	CA-C-O	-5.25	115.60	121.17
1	dh	84	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	di	39	MET	CA-C-N	5.25	127.58	120.44
1	di	39	MET	C-N-CA	5.25	127.58	120.44
1	dw	185	MET	N-CA-C	5.25	117.08	111.36
1	dy	83	LEU	N-CA-C	5.25	117.91	111.82
1	dK	104	ILE	N-CA-C	5.25	115.46	110.42
1	dT	55	MET	O-C-N	-5.25	116.16	122.15
1	1p	139	ASN	CB-CG-ND2	5.25	124.28	116.40
1	ed	168	PHE	CA-C-N	5.25	127.57	120.38
1	ed	168	PHE	C-N-CA	5.25	127.57	120.38
1	ei	18	ARG	CA-C-N	5.25	127.75	120.29
1	ei	18	ARG	C-N-CA	5.25	127.75	120.29
1	ej	32	PHE	O-C-N	-5.25	115.89	122.24
1	em	219	GLN	CA-C-N	5.25	131.71	121.41
1	em	219	GLN	C-N-CA	5.25	131.71	121.41
1	ep	195	ASN	O-C-N	-5.25	115.67	121.66
1	ex	223	GLY	CA-C-N	5.25	126.07	119.98
1	ex	223	GLY	C-N-CA	5.25	126.07	119.98
1	ey	12	HIS	CG-CD2-NE2	5.25	112.45	107.20
1	eF	69	LEU	CA-C-N	5.25	127.27	120.44
1	eF	69	LEU	C-N-CA	5.25	127.27	120.44
1	eN	185	MET	CG-SD-CE	-5.25	89.35	100.90
1	eP	27	VAL	N-CA-C	5.25	115.98	110.62
1	eP	121	ASN	CA-C-O	-5.25	112.97	120.16
1	eU	146	SER	O-C-N	-5.25	116.52	121.35
1	eV	179	GLN	N-CA-C	5.25	117.00	111.28
1	f8	196	PRO	CA-C-N	5.25	127.27	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f8	196	PRO	C-N-CA	5.25	127.27	120.44
1	fj	202	LEU	CA-C-O	-5.25	114.17	120.10
1	fo	84	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	fG	72	THR	CA-CB-OG1	5.25	117.48	109.60
1	fM	112	GLN	CA-C-N	5.25	127.32	120.28
1	fM	112	GLN	C-N-CA	5.25	127.32	120.28
1	fU	167	ARG	CD-NE-CZ	5.25	131.75	124.40
1	fW	186	THR	CB-CA-C	-5.25	101.92	110.85
1	1A	44	SER	N-CA-CB	-5.25	102.41	110.44
1	g1	123	PRO	CA-C-O	-5.25	115.43	121.36
1	g	146	SER	CB-CA-C	-5.25	100.90	109.41
1	j	175	GLU	O-C-N	-5.25	116.35	122.81
1	l	230	VAL	O-C-N	-5.25	116.62	122.66
1	o	170	LYS	N-CA-C	5.25	117.08	111.36
1	q	85	PRO	CB-CA-C	5.25	120.48	112.97
1	q	165	VAL	N-CA-C	5.25	115.46	110.42
1	r	62	HIS	CA-CB-CG	-5.25	108.55	113.80
1	v	160	PRO	N-CA-C	5.25	119.29	111.41
1	I	162	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	V	134	ILE	N-CA-C	5.25	115.98	110.62
1	5	104	ILE	CA-C-O	-5.25	115.60	121.17
1	ge	7	GLN	CA-C-O	5.25	126.97	121.19
1	gl	139	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	gp	148	THR	N-CA-CB	5.25	120.43	111.66
1	gC	193	ASN	CA-CB-CG	-5.25	107.35	112.60
1	1H	197	ASP	CA-C-O	5.25	125.98	119.79
1	h7	228	ALA	CA-C-O	-5.25	115.28	120.90
1	hc	29	GLU	N-CA-CB	-5.25	101.51	110.33
1	hd	210	THR	CA-C-N	5.25	127.32	120.28
1	hd	210	THR	C-N-CA	5.25	127.32	120.28
1	hj	177	ALA	CA-C-O	-5.25	115.98	121.55
1	hx	167	ARG	N-CA-C	5.25	117.00	111.28
1	hL	31	ALA	O-C-N	-5.25	115.61	122.59
1	i2	216	THR	CA-C-O	-5.25	113.42	119.56
1	i8	197	ASP	CA-CB-CG	5.25	117.85	112.60
1	ie	224	PRO	N-CA-CB	5.25	108.33	103.39
1	in	100	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	iP	14	ALA	O-C-N	-5.25	116.49	122.89
1	1U	106	GLY	CA-C-N	5.25	127.31	120.28
1	1U	106	GLY	C-N-CA	5.25	127.31	120.28
1	jh	154	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	jv	133	TRP	CD2-CE2-CZ2	-5.25	117.15	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	132	ARG	CG-CD-NE	-5.25	100.45	112.00
1	jG	32	PHE	CA-C-O	5.25	125.57	119.32
1	kg	32	PHE	CB-CA-C	-5.25	100.65	110.36
1	kq	141	ILE	CA-C-N	5.25	127.28	120.56
1	kq	141	ILE	C-N-CA	5.25	127.28	120.56
1	kv	113	GLU	CB-CG-CD	5.25	121.53	112.60
1	la	177	ALA	CB-CA-C	-5.25	98.78	109.65
1	ld	136	LEU	N-CA-CB	5.25	117.84	110.12
1	ls	67	GLN	N-CA-CB	5.25	117.84	110.12
1	2u	176	GLN	CB-CG-CD	-5.25	103.67	112.60
1	2C	57	ASN	CA-CB-CG	5.25	117.85	112.60
1	2I	5	ASN	O-C-N	-5.25	116.16	122.15
1	3g	134	ILE	N-CA-CB	5.25	118.46	110.58
1	3K	159	GLU	O-C-N	5.25	125.77	121.31
1	4k	146	SER	N-CA-C	5.25	120.08	113.25
1	4t	41	SER	CA-C-O	5.25	126.33	120.82
1	4G	176	GLN	O-C-N	-5.25	116.41	123.23
1	51	162	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	5b	1	PRO	N-CA-CB	-5.25	97.22	103.00
1	5i	87	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	5i	199	LYS	CA-CB-CG	5.25	124.60	114.10
1	5D	53	ASN	O-C-N	-5.25	116.66	122.07
1	5E	104	ILE	O-C-N	-5.25	115.87	121.80
1	5F	74	ASN	CA-CB-CG	-5.25	107.35	112.60
1	5U	153	ILE	O-C-N	-5.25	117.21	122.62
1	6e	222	GLY	O-C-N	-5.25	117.14	122.60
1	6k	227	LYS	N-CA-C	5.25	118.05	110.28
1	6o	180	GLU	N-CA-C	5.25	117.00	111.28
1	6J	124	ILE	N-CA-CB	5.25	118.56	111.21
1	6S	37	ILE	N-CA-C	5.25	120.22	112.61
1	71	138	LEU	CA-C-N	5.25	127.27	120.44
1	71	138	LEU	C-N-CA	5.25	127.27	120.44
1	78	186	THR	O-C-N	-5.25	116.08	122.22
1	7j	166	ASP	CA-CB-CG	5.25	117.85	112.60
1	7H	177	ALA	CA-C-N	5.25	128.16	120.71
1	7H	177	ALA	C-N-CA	5.25	128.16	120.71
1	7M	139	ASN	N-CA-C	5.25	118.47	111.75
1	7R	90	PRO	O-C-N	-5.25	116.32	122.99
1	7Z	195	ASN	CA-C-O	-5.25	115.00	120.88
1	85	166	ASP	O-C-N	-5.25	116.56	122.12
1	8b	133	TRP	CE2-CD2-CE3	5.25	124.05	118.80
1	8k	33	SER	CA-C-O	-5.25	112.97	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8n	178	SER	N-CA-C	5.25	117.06	110.24
1	8X	26	VAL	CA-C-N	5.25	127.17	120.56
1	8X	26	VAL	C-N-CA	5.25	127.17	120.56
1	8Y	216	THR	CA-C-O	-5.25	113.21	119.35
1	9c	114	GLN	CA-CB-CG	-5.25	103.60	114.10
1	9f	64	ALA	N-CA-C	5.25	116.69	111.07
1	9o	168	PHE	CA-C-N	5.25	127.31	120.28
1	9o	168	PHE	C-N-CA	5.25	127.31	120.28
1	9s	195	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	a0	53	ASN	CA-C-N	5.25	127.31	120.28
1	a0	53	ASN	C-N-CA	5.25	127.31	120.28
1	a3	169	TYR	N-CA-C	5.25	117.75	111.71
1	ad	132	ARG	N-CA-CB	5.25	117.62	110.01
1	an	136	LEU	O-C-N	-5.25	116.56	122.12
1	ap	62	HIS	CA-CB-CG	-5.25	108.55	113.80
1	au	216	THR	OG1-CB-CG2	-5.25	98.80	109.30
1	bf	203	LYS	N-CA-C	5.25	117.41	111.11
1	bq	126	VAL	O-C-N	-5.25	116.78	121.87
1	by	201	ILE	N-CA-C	5.25	115.97	110.62
1	bK	111	LEU	N-CA-C	5.25	116.69	111.07
1	c3	22	ALA	N-CA-C	5.25	117.68	111.33
1	ca	20	LEU	CB-CA-C	-5.25	101.93	110.85
1	cc	176	GLN	CA-C-N	5.25	128.68	120.75
1	cc	176	GLN	C-N-CA	5.25	128.68	120.75
1	ck	89	GLY	CA-C-N	5.25	125.19	119.78
1	ck	89	GLY	C-N-CA	5.25	125.19	119.78
1	cE	221	VAL	CA-C-N	5.25	129.05	121.44
1	cE	221	VAL	C-N-CA	5.25	129.05	121.44
1	cH	95	GLN	N-CA-C	5.25	121.98	110.80
1	1g	139	ASN	CA-CB-CG	-5.25	107.35	112.60
1	cR	191	VAL	CA-C-O	-5.25	114.80	120.47
1	cS	226	HIS	CA-CB-CG	5.25	119.05	113.80
1	d2	63	GLN	CB-CA-C	5.25	120.22	109.67
1	dd	176	GLN	CA-C-O	5.25	127.53	121.28
1	dp	195	ASN	O-C-N	-5.25	115.28	121.32
1	dR	138	LEU	CA-C-N	5.25	127.27	120.44
1	dR	138	LEU	C-N-CA	5.25	127.27	120.44
1	dX	4	GLN	N-CA-C	5.25	118.87	111.52
1	es	105	ALA	CA-C-N	5.25	129.41	120.91
1	es	105	ALA	C-N-CA	5.25	129.41	120.91
1	eG	152	ASP	CA-C-N	5.25	127.53	120.50
1	eG	152	ASP	C-N-CA	5.25	127.53	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eU	53	ASN	CB-CA-C	-5.25	102.08	110.79
1	ff	26	VAL	O-C-N	-5.25	116.77	121.91
1	fj	62	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	fu	65	ALA	O-C-N	-5.25	116.56	122.12
1	fv	133	TRP	O-C-N	5.25	127.69	122.12
1	fw	172	LEU	CA-C-N	5.25	127.57	120.38
1	fw	172	LEU	C-N-CA	5.25	127.57	120.38
1	fy	133	TRP	N-CA-CB	5.25	117.62	110.01
1	d	159	GLU	N-CA-C	5.25	117.04	109.48
1	y	26	VAL	N-CA-CB	5.25	116.69	110.55
1	A	12	HIS	CA-CB-CG	5.25	119.05	113.80
1	A	107	THR	CB-CA-C	-5.25	99.74	109.29
1	L	181	VAL	O-C-N	-5.25	116.77	121.91
1	9	78	ALA	CB-CA-C	5.25	119.12	110.88
1	ga	158	LYS	O-C-N	-5.25	116.00	122.25
1	ge	37	ILE	O-C-N	-5.25	117.06	120.42
1	gf	185	MET	N-CA-C	5.25	117.68	111.33
1	gl	167	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	gs	201	ILE	N-CA-C	5.25	115.46	110.53
1	gt	212	GLU	CA-C-N	5.25	127.31	120.28
1	gt	212	GLU	C-N-CA	5.25	127.31	120.28
1	gy	197	ASP	CA-C-O	5.25	125.87	119.05
1	gz	112	GLN	O-C-N	-5.25	116.66	122.07
1	gF	143	ARG	CA-C-O	5.25	126.33	120.82
1	gQ	228	ALA	N-CA-C	-5.25	107.42	113.88
1	h6	230	VAL	N-CA-C	5.25	117.19	109.63
1	he	54	THR	CA-C-N	5.25	127.31	120.28
1	he	54	THR	C-N-CA	5.25	127.31	120.28
1	hi	171	THR	CA-C-N	5.25	127.74	120.29
1	hi	171	THR	C-N-CA	5.25	127.74	120.29
1	hl	209	ALA	CA-C-N	5.25	130.93	121.06
1	hl	209	ALA	C-N-CA	5.25	130.93	121.06
1	hy	111	LEU	O-C-N	-5.25	116.56	122.12
1	hz	82	ARG	CA-C-N	5.25	127.26	120.44
1	hz	82	ARG	C-N-CA	5.25	127.26	120.44
1	hH	50	GLN	CG-CD-NE2	-5.25	108.53	116.40
1	hJ	150	ILE	O-C-N	-5.25	114.88	122.12
1	hM	227	LYS	CB-CG-CD	5.25	123.37	111.30
1	hS	167	ARG	N-CA-C	5.25	116.69	111.07
1	hX	146	SER	O-C-N	-5.25	115.89	121.30
1	hZ	167	ARG	N-CA-CB	-5.25	101.68	110.39
1	i1	152	ASP	CA-C-O	5.25	125.70	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	34	PRO	CA-C-N	5.25	129.00	120.60
1	1O	34	PRO	C-N-CA	5.25	129.00	120.60
1	ig	146	SER	N-CA-C	5.25	120.07	113.25
1	ii	154	ARG	CD-NE-CZ	5.25	131.75	124.40
1	il	60	GLY	O-C-N	-5.25	115.88	122.70
1	in	52	LEU	CD1-CG-CD2	-5.25	99.25	110.80
1	it	166	ASP	O-C-N	-5.25	116.63	122.09
1	iu	132	ARG	CA-C-N	5.25	127.31	120.28
1	iu	132	ARG	C-N-CA	5.25	127.31	120.28
1	1Q	159	GLU	CA-C-O	-5.25	115.42	119.46
1	1R	13	GLN	N-CA-C	-5.25	101.61	109.95
1	iL	154	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	iZ	64	ALA	N-CA-C	5.25	117.00	111.28
1	jh	167	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	ju	15	ILE	N-CA-C	5.25	116.45	109.37
1	jz	161	PHE	CA-CB-CG	5.25	119.05	113.80
1	jB	57	ASN	CA-CB-CG	-5.25	107.35	112.60
1	jC	75	GLU	N-CA-C	5.25	117.00	111.28
1	jL	32	PHE	CA-C-O	5.25	126.74	120.70
1	jO	98	GLU	CA-C-N	5.25	125.50	119.83
1	jO	98	GLU	C-N-CA	5.25	125.50	119.83
1	jP	84	HIS	CB-CG-ND1	5.25	130.57	122.70
1	1Y	52	LEU	CA-C-N	5.25	127.26	120.44
1	1Y	52	LEU	C-N-CA	5.25	127.26	120.44
1	k0	112	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	k4	184	TRP	CA-C-N	5.25	127.26	120.44
1	k4	184	TRP	C-N-CA	5.25	127.26	120.44
1	k8	174	ALA	O-C-N	-5.25	114.91	122.36
1	kc	19	THR	O-C-N	-5.25	116.66	122.07
1	kc	47	ALA	CA-C-N	5.25	128.63	120.60
1	kc	47	ALA	C-N-CA	5.25	128.63	120.60
1	ko	63	GLN	N-CA-C	5.25	117.75	111.71
1	kq	117	TRP	N-CA-C	5.25	117.00	111.28
1	ku	219	GLN	CG-CD-OE1	5.25	131.30	120.80
1	kv	194	ALA	O-C-N	-5.25	116.42	122.87
1	kv	229	ARG	NE-CZ-NH2	-5.25	114.48	119.20
1	ky	152	ASP	O-C-N	-5.25	115.65	122.37
1	kI	77	ALA	O-C-N	-5.25	116.56	122.12
1	kR	95	GLN	CA-C-O	-5.25	115.23	121.16
1	kR	229	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	kS	38	PRO	N-CA-C	-5.25	106.69	113.57
1	kV	149	SER	CA-C-N	5.25	128.76	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kV	149	SER	C-N-CA	5.25	128.76	120.47
1	le	206	GLY	O-C-N	-5.25	116.52	121.77
1	ln	92	GLU	CA-C-O	5.25	126.62	120.69
1	ln	207	PRO	O-C-N	-5.25	115.56	122.64
1	lp	135	ILE	CA-C-N	5.25	127.74	120.29
1	lp	135	ILE	C-N-CA	5.25	127.74	120.29
1	lu	94	GLY	CA-C-N	5.25	128.30	120.95
1	lu	94	GLY	C-N-CA	5.25	128.30	120.95
1	ly	199	LYS	N-CA-C	5.25	118.47	111.75
1	lA	149	SER	N-CA-C	5.25	117.84	110.23
1	lK	55	MET	N-CA-C	5.25	117.08	111.36
1	lQ	140	LYS	CA-C-N	5.25	127.87	120.42
1	lQ	140	LYS	C-N-CA	5.25	127.87	120.42
1	2l	87	HIS	CA-CB-CG	5.25	119.05	113.80
1	2y	71	GLU	CA-C-N	5.25	127.74	120.29
1	2y	71	GLU	C-N-CA	5.25	127.74	120.29
1	2A	197	ASP	CA-C-N	5.25	128.29	120.31
1	2A	197	ASP	C-N-CA	5.25	128.29	120.31
1	2G	114	GLN	CG-CD-NE2	5.25	124.27	116.40
1	35	133	TRP	CB-CG-CD1	5.25	134.77	126.90
1	36	70	LYS	N-CA-C	5.25	117.00	111.28
1	39	212	GLU	N-CA-CB	-5.25	102.39	110.16
1	3a	139	ASN	CB-CG-OD1	-5.25	110.30	120.80
1	3b	47	ALA	O-C-N	-5.25	116.44	122.95
1	3c	87	HIS	CB-CG-CD2	-5.25	124.38	131.20
1	3c	101	GLY	O-C-N	-5.25	116.68	122.24
1	3g	36	VAL	O-C-N	-5.25	116.57	121.87
1	3m	130	TYR	CA-C-N	5.25	127.26	120.44
1	3m	130	TYR	C-N-CA	5.25	127.26	120.44
1	3p	3	VAL	CA-CB-CG1	5.25	119.32	110.40
1	3v	186	THR	N-CA-C	5.25	117.41	111.11
1	3H	179	GLN	N-CA-CB	5.25	117.84	110.12
1	3J	200	THR	N-CA-C	5.25	117.91	111.82
1	3U	186	THR	N-CA-C	-5.25	105.64	111.36
1	4c	150	ILE	CA-C-N	5.25	127.31	120.28
1	4c	150	ILE	C-N-CA	5.25	127.31	120.28
1	4e	132	ARG	O-C-N	-5.25	116.56	122.12
1	4g	50	GLN	O-C-N	-5.25	116.17	122.15
1	4i	159	GLU	N-CA-C	5.25	115.64	109.60
1	4j	62	HIS	CA-C-O	5.25	128.02	120.51
1	4r	195	ASN	CB-CA-C	5.25	119.22	109.51
1	4A	152	ASP	CA-CB-CG	5.25	117.85	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4H	192	GLN	CA-C-O	-5.25	114.99	120.55
1	4W	64	ALA	O-C-N	-5.25	116.46	122.08
1	4Y	55	MET	O-C-N	-5.25	116.17	122.15
1	5d	136	LEU	CA-C-O	5.25	126.30	120.63
1	5j	41	SER	O-C-N	5.25	128.13	122.15
1	5k	25	LYS	O-C-N	-5.25	116.56	122.12
1	5t	173	ARG	N-CA-C	5.25	117.42	111.02
1	5w	77	ALA	CA-C-O	5.25	126.03	120.10
1	5w	152	ASP	CA-CB-CG	5.25	117.85	112.60
1	5D	228	ALA	N-CA-CB	-5.25	102.72	110.49
1	5M	50	GLN	O-C-N	-5.25	116.56	122.12
1	5Z	86	VAL	N-CA-CB	5.25	118.39	111.25
1	62	150	ILE	CA-CB-CG1	5.25	119.32	110.40
1	63	140	LYS	N-CA-C	5.25	117.41	111.11
1	65	140	LYS	CB-CA-C	5.25	119.21	110.81
1	66	126	VAL	N-CA-C	5.25	116.60	110.62
1	6c	137	GLY	CA-C-N	5.25	127.84	120.28
1	6c	137	GLY	C-N-CA	5.25	127.84	120.28
1	6g	231	LEU	CB-CA-C	5.25	120.07	110.10
1	6k	160	PRO	O-C-N	5.25	129.72	122.64
1	6n	97	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	6o	66	MET	CA-C-O	5.25	126.00	119.97
1	6x	62	HIS	ND1-CG-CD2	5.25	111.35	106.10
1	6E	74	ASN	CA-CB-CG	5.25	117.85	112.60
1	6P	208	ALA	O-C-N	-5.25	116.74	122.67
1	6Q	21	ASN	O-C-N	5.25	127.48	122.07
1	6Z	4	GLN	N-CA-C	5.25	118.98	112.58
1	71	82	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	78	225	GLY	CA-C-O	5.25	129.70	120.57
1	7c	93	PRO	N-CA-CB	5.25	108.76	103.25
1	7j	82	ARG	NE-CZ-NH2	-5.25	114.48	119.20
1	7q	187	GLU	CA-C-O	5.25	125.34	119.41
1	7C	6	LEU	N-CA-C	-5.25	106.47	112.92
1	7C	146	SER	N-CA-CB	5.25	116.61	110.42
1	7R	33	SER	CA-C-N	5.25	124.96	119.82
1	7R	33	SER	C-N-CA	5.25	124.96	119.82
1	7S	62	HIS	CA-C-N	5.25	127.31	120.28
1	7S	62	HIS	C-N-CA	5.25	127.31	120.28
1	7S	230	VAL	O-C-N	-5.25	116.01	122.57
1	7Y	129	ILE	O-C-N	-5.25	116.77	121.91
1	81	25	LYS	CA-C-N	5.25	127.17	120.56
1	81	25	LYS	C-N-CA	5.25	127.17	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	89	218	CYS	CA-C-O	-5.25	112.30	119.96
1	8g	167	ARG	CA-C-N	5.25	127.26	120.44
1	8g	167	ARG	C-N-CA	5.25	127.26	120.44
1	8q	18	ARG	CG-CD-NE	-5.25	100.45	112.00
1	8r	154	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	8B	70	LYS	N-CA-C	5.25	117.68	111.33
1	8C	21	ASN	N-CA-C	5.25	116.69	111.07
1	8I	21	ASN	CA-CB-CG	5.25	117.85	112.60
1	8L	120	HIS	O-C-N	-5.25	116.49	122.68
1	8M	76	GLU	CA-C-N	5.25	127.31	120.28
1	8M	76	GLU	C-N-CA	5.25	127.31	120.28
1	8M	110	THR	CA-CB-CG2	5.25	119.42	110.50
1	8S	171	THR	N-CA-C	5.25	118.84	112.23
1	9b	104	ILE	CB-CA-C	5.25	119.23	112.14
1	9k	39	MET	CG-SD-CE	-5.25	89.35	100.90
1	9p	83	LEU	CA-C-O	5.25	126.03	119.78
1	9v	89	GLY	N-CA-C	5.25	123.05	112.34
1	9Y	23	TRP	CA-C-N	5.25	127.37	120.60
1	9Y	23	TRP	C-N-CA	5.25	127.37	120.60
1	Z	72	THR	CA-C-N	5.25	127.17	120.56
1	Z	72	THR	C-N-CA	5.25	127.17	120.56
1	Z	194	ALA	CA-C-O	-5.25	115.42	121.19
1	ab	165	VAL	CA-CB-CG2	-5.25	101.48	110.40
1	af	125	PRO	CA-C-N	5.25	127.93	120.53
1	af	125	PRO	C-N-CA	5.25	127.93	120.53
1	aq	147	PRO	N-CA-CB	5.25	108.76	103.25
1	aN	156	GLY	O-C-N	-5.25	116.52	121.77
1	aP	57	ASN	CB-CG-ND2	5.25	124.27	116.40
1	aW	34	PRO	N-CA-CB	5.25	108.76	103.25
1	aW	114	GLN	CB-CA-C	5.25	119.12	110.88
1	aW	171	THR	N-CA-C	5.25	117.08	111.36
1	b1	201	ILE	CA-CB-CG1	-5.25	101.48	110.40
1	b3	4	GLN	CB-CA-C	5.25	120.86	110.42
1	b7	35	GLU	N-CA-CB	5.25	117.83	110.12
1	b8	62	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	bh	192	GLN	N-CA-C	5.25	117.00	111.28
1	bm	128	GLU	N-CA-C	5.25	117.00	111.28
1	bH	154	ARG	N-CA-CB	5.25	120.82	111.69
1	bM	154	ARG	CB-CA-C	5.25	120.04	109.38
1	bQ	198	CYS	N-CA-C	5.25	116.69	111.07
1	bY	142	VAL	CB-CA-C	-5.25	105.06	112.14
1	c2	62	HIS	N-CA-C	5.25	118.63	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	97	ARG	N-CA-C	-5.25	101.43	109.41
1	ca	172	LEU	CA-C-O	5.25	126.11	120.55
1	ch	23	TRP	CA-C-N	5.25	127.17	120.56
1	ch	23	TRP	C-N-CA	5.25	127.17	120.56
1	cj	138	LEU	O-C-N	-5.25	116.56	122.12
1	cw	84	HIS	CB-CG-ND1	5.25	130.57	122.70
1	cO	117	TRP	CB-CG-CD2	-5.25	119.45	126.80
1	cQ	173	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	cS	101	GLY	CA-C-O	5.25	125.94	120.80
1	cX	59	VAL	CA-C-N	5.25	126.95	120.34
1	cX	59	VAL	C-N-CA	5.25	126.95	120.34
1	cX	229	ARG	N-CA-C	-5.25	106.74	112.72
1	cY	9	GLN	CA-C-O	5.25	126.03	119.78
1	cZ	82	ARG	O-C-N	-5.25	115.22	122.46
1	d0	104	ILE	CA-C-O	5.25	126.19	120.57
1	da	30	LYS	CA-C-O	5.25	125.82	119.31
1	de	84	HIS	O-C-N	-5.25	116.58	121.36
1	ds	54	THR	O-C-N	-5.25	116.63	122.09
1	dv	174	ALA	CA-C-N	5.25	129.18	120.94
1	dv	174	ALA	C-N-CA	5.25	129.18	120.94
1	dD	114	GLN	N-CA-C	5.25	116.69	111.07
1	dF	226	HIS	O-C-N	-5.25	115.70	122.21
1	dG	54	THR	CA-CB-OG1	5.25	117.47	109.60
1	1m	104	ILE	CA-C-O	-5.25	115.59	121.05
1	dW	56	LEU	CA-C-N	5.25	127.84	120.28
1	dW	56	LEU	C-N-CA	5.25	127.84	120.28
1	e5	76	GLU	CB-CG-CD	5.25	121.52	112.60
1	e8	58	THR	CA-CB-OG1	5.25	117.47	109.60
1	e8	197	ASP	CA-C-N	5.25	127.31	120.28
1	e8	197	ASP	C-N-CA	5.25	127.31	120.28
1	eb	83	LEU	CA-C-N	-5.25	115.16	122.66
1	eb	83	LEU	C-N-CA	-5.25	115.16	122.66
1	ey	163	ASP	CA-C-N	5.25	127.58	120.44
1	ey	163	ASP	C-N-CA	5.25	127.58	120.44
1	eI	172	LEU	N-CA-CB	-5.25	102.40	110.12
1	eK	18	ARG	N-CA-C	5.25	117.00	111.28
1	eK	208	ALA	N-CA-CB	-5.25	102.22	110.46
1	eM	162	ARG	N-CA-C	5.25	117.00	111.28
1	eP	174	ALA	CA-C-O	5.25	125.78	119.59
1	fc	114	GLN	CA-C-O	5.25	126.52	120.90
1	fi	48	THR	N-CA-C	-5.25	104.09	110.13
1	fp	76	GLU	CA-C-N	5.25	127.74	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fp	76	GLU	C-N-CA	5.25	127.74	120.29
1	1x	153	ILE	N-CA-C	5.25	116.02	108.93
1	fE	137	GLY	CA-C-N	5.25	127.26	120.44
1	fE	137	GLY	C-N-CA	5.25	127.26	120.44
1	fT	173	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	fW	131	LYS	N-CA-C	5.25	117.75	111.71
1	1B	41	SER	CA-C-N	5.25	127.74	120.29
1	1B	41	SER	C-N-CA	5.25	127.74	120.29
1	f	133	TRP	CD2-CE2-CZ2	-5.25	117.15	122.40
1	g	58	THR	CA-CB-OG1	5.25	117.47	109.60
1	m	91	ILE	CA-C-N	5.25	129.26	120.86
1	m	91	ILE	C-N-CA	5.25	129.26	120.86
1	n	37	ILE	N-CA-C	5.25	120.22	108.88
1	y	126	VAL	CA-C-N	5.25	126.95	120.34
1	y	126	VAL	C-N-CA	5.25	126.95	120.34
1	A	23	TRP	CD2-CE2-CZ2	-5.25	117.15	122.40
1	F	192	GLN	CA-C-O	5.25	125.82	119.31
1	L	108	THR	CB-CA-C	-5.25	101.85	110.72
1	4	172	LEU	CA-C-N	5.25	128.29	120.31
1	4	172	LEU	C-N-CA	5.25	128.29	120.31
1	P	155	GLN	N-CA-CB	-5.25	101.66	109.69
1	Q	198	CYS	N-CA-CB	5.25	117.93	110.16
1	R	167	ARG	CG-CD-NE	-5.25	100.45	112.00
1	S	115	ILE	O-C-N	-5.25	116.77	121.91
1	S	144	MET	CA-C-N	5.25	131.18	122.73
1	S	144	MET	C-N-CA	5.25	131.18	122.73
1	V	135	ILE	N-CA-CB	5.25	117.68	110.54
1	6	57	ASN	N-CA-C	5.25	117.00	111.28
1	1C	124	ILE	O-C-N	5.25	127.08	121.10
1	gp	36	VAL	CA-C-N	5.25	125.47	120.43
1	gp	36	VAL	C-N-CA	5.25	125.47	120.43
1	gp	37	ILE	N-CA-C	5.25	119.23	112.67
1	gy	167	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	gz	4	GLN	CA-C-N	5.25	128.29	120.95
1	gz	4	GLN	C-N-CA	5.25	128.29	120.95
1	gz	121	ASN	CA-CB-CG	5.25	117.85	112.60
1	gC	18	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	gE	156	GLY	CA-C-N	5.25	124.94	119.64
1	gE	156	GLY	C-N-CA	5.25	124.94	119.64
1	gF	112	GLN	O-C-N	-5.25	116.56	122.12
1	gG	195	ASN	CB-CG-ND2	-5.25	108.53	116.40
1	gH	189	LEU	CA-C-N	5.25	127.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gH	189	LEU	C-N-CA	5.25	127.31	120.28
1	gL	14	ALA	N-CA-C	5.25	117.64	110.24
1	gM	89	GLY	N-CA-C	5.25	123.04	112.34
1	gM	111	LEU	N-CA-CB	-5.25	102.14	110.22
1	gN	57	ASN	CA-CB-CG	-5.25	107.35	112.60
1	gO	163	ASP	CA-C-N	5.25	127.74	120.29
1	gO	163	ASP	C-N-CA	5.25	127.74	120.29
1	gP	114	GLN	CA-C-O	5.25	126.33	120.82
1	gS	223	GLY	O-C-N	-5.25	116.52	121.77
1	h5	224	PRO	N-CA-CB	-5.25	98.91	103.32
1	1H	33	SER	CA-C-N	5.25	124.91	119.56
1	1H	33	SER	C-N-CA	5.25	124.91	119.56
1	h7	58	THR	CA-C-N	5.25	129.05	121.18
1	h7	58	THR	C-N-CA	5.25	129.05	121.18
1	hb	11	VAL	O-C-N	-5.25	116.54	122.94
1	hd	180	GLU	N-CA-C	5.25	117.00	111.28
1	hn	82	ARG	CA-C-N	5.25	127.58	120.44
1	hn	82	ARG	C-N-CA	5.25	127.58	120.44
1	hn	116	GLY	CA-C-N	5.25	127.31	120.28
1	hn	116	GLY	C-N-CA	5.25	127.31	120.28
1	hp	94	GLY	CA-C-N	5.25	129.60	121.26
1	hp	94	GLY	C-N-CA	5.25	129.60	121.26
1	1J	196	PRO	N-CA-CB	5.25	109.10	103.33
1	hr	77	ALA	N-CA-C	5.25	116.68	111.07
1	hv	89	GLY	CA-C-N	5.25	125.25	119.90
1	hv	89	GLY	C-N-CA	5.25	125.25	119.90
1	hy	44	SER	CB-CA-C	-5.25	102.93	111.06
1	hz	107	THR	N-CA-C	-5.25	106.83	114.12
1	hE	103	ASP	O-C-N	5.25	128.13	122.15
1	hJ	100	ARG	O-C-N	-5.25	116.54	122.68
1	1N	97	ARG	N-CA-C	5.25	117.06	110.24
1	i6	114	GLN	CA-C-N	5.25	127.65	120.46
1	i6	114	GLN	C-N-CA	5.25	127.65	120.46
1	i9	125	PRO	N-CA-CB	-5.25	98.27	102.36
1	ia	67	GLN	CA-C-N	5.25	127.26	120.44
1	ia	67	GLN	C-N-CA	5.25	127.26	120.44
1	ib	63	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	ie	61	GLY	N-CA-C	5.25	119.28	112.25
1	iq	112	GLN	CA-C-N	5.25	127.26	120.44
1	iq	112	GLN	C-N-CA	5.25	127.26	120.44
1	it	226	HIS	CG-CD2-NE2	5.25	112.45	107.20
1	iu	120	HIS	CA-CB-CG	-5.25	108.55	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	58	THR	CA-C-N	5.25	129.15	121.80
1	iz	58	THR	C-N-CA	5.25	129.15	121.80
1	iX	12	HIS	CB-CG-CD2	5.25	138.02	131.20
1	j3	16	SER	N-CA-C	5.25	116.49	109.83
1	j4	179	GLN	CA-C-O	5.25	126.11	120.55
1	1U	87	HIS	CA-CB-CG	5.25	119.05	113.80
1	je	179	GLN	O-C-N	-5.25	116.56	122.12
1	jj	114	GLN	CA-C-N	5.25	127.65	120.46
1	jj	114	GLN	C-N-CA	5.25	127.65	120.46
1	jw	132	ARG	N-CA-CB	5.25	117.62	110.01
1	jy	53	ASN	CA-CB-CG	5.25	117.85	112.60
1	jD	67	GLN	CA-C-N	5.25	127.31	120.28
1	jD	67	GLN	C-N-CA	5.25	127.31	120.28
1	jF	229	ARG	N-CA-C	5.25	117.74	111.71
1	jN	7	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	jQ	169	TYR	CB-CG-CD2	5.25	128.67	120.80
1	jX	182	LYS	CB-CG-CD	5.25	123.37	111.30
1	k4	71	GLU	CA-C-N	5.25	128.08	120.79
1	k4	71	GLU	C-N-CA	5.25	128.08	120.79
1	kl	191	VAL	CA-C-N	5.25	131.56	121.54
1	kl	191	VAL	C-N-CA	5.25	131.56	121.54
1	ko	110	THR	O-C-N	-5.25	117.07	123.10
1	kB	167	ARG	CB-CA-C	-5.25	102.08	110.79
1	kE	115	ILE	CA-C-N	5.25	125.92	119.99
1	kE	115	ILE	C-N-CA	5.25	125.92	119.99
1	l2	77	ALA	N-CA-CB	-5.25	102.41	110.12
1	l4	92	GLU	CA-C-N	5.25	125.25	119.90
1	l4	92	GLU	C-N-CA	5.25	125.25	119.90
1	lq	178	SER	N-CA-C	5.25	117.69	110.35
1	lt	111	LEU	CA-C-O	5.25	126.11	120.55
1	lE	197	ASP	N-CA-CB	5.25	117.62	110.01
1	lF	224	PRO	O-C-N	-5.25	115.56	122.64
1	lI	209	ALA	N-CA-C	5.25	117.48	110.35
1	lJ	146	SER	O-C-N	-5.25	116.75	121.31
1	2x	30	LYS	N-CA-C	-5.25	107.25	113.97
1	2F	20	LEU	N-CA-C	5.25	116.81	111.14
1	2H	183	ASN	CA-C-N	5.25	127.58	120.44
1	2H	183	ASN	C-N-CA	5.25	127.58	120.44
1	2K	189	LEU	CA-C-N	5.25	127.58	120.44
1	2K	189	LEU	C-N-CA	5.25	127.58	120.44
1	2Q	74	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	37	130	TYR	N-CA-C	-5.25	105.24	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	38	155	GLN	N-CA-C	5.25	118.04	110.28
1	3e	14	ALA	N-CA-C	5.25	118.04	110.28
1	3i	143	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	3s	5	ASN	CA-CB-CG	5.25	117.85	112.60
1	3N	132	ARG	NH1-CZ-NH2	5.25	126.12	119.30
1	3S	87	HIS	ND1-CE1-NE2	5.25	113.65	108.40
1	3T	68	MET	CA-C-N	5.25	127.74	120.29
1	3T	68	MET	C-N-CA	5.25	127.74	120.29
1	3V	30	LYS	O-C-N	-5.25	115.61	122.59
1	40	90	PRO	CA-N-CD	-5.25	104.65	112.00
1	4u	4	GLN	CA-C-O	5.25	126.84	120.81
1	4v	192	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	4D	87	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	4I	166	ASP	O-C-N	-5.25	116.56	122.12
1	4J	199	LYS	O-C-N	-5.25	116.56	122.12
1	4P	172	LEU	CA-C-O	5.25	126.83	119.80
1	4Q	68	MET	N-CA-C	5.25	117.00	111.28
1	4U	204	ALA	O-C-N	-5.25	116.56	122.12
1	4Y	78	ALA	CA-C-O	5.25	125.98	120.42
1	59	62	HIS	CG-CD2-NE2	-5.25	101.95	107.20
1	5a	5	ASN	CA-CB-CG	5.25	117.85	112.60
1	5e	62	HIS	N-CA-C	5.25	118.67	111.54
1	5r	169	TYR	CA-CB-CG	-5.25	104.46	113.90
1	5s	113	GLU	CA-CB-CG	-5.25	103.61	114.10
1	5A	45	GLU	CB-CA-C	-5.25	101.01	109.72
1	5B	118	MET	CA-C-O	5.25	125.42	119.18
1	5L	56	LEU	CA-C-N	5.25	127.57	120.38
1	5L	56	LEU	C-N-CA	5.25	127.57	120.38
1	5S	62	HIS	CA-C-N	5.25	127.31	120.28
1	5S	62	HIS	C-N-CA	5.25	127.31	120.28
1	5S	210	THR	CA-C-O	-5.25	114.89	120.92
1	6c	101	GLY	N-CA-C	5.25	119.23	112.83
1	6h	92	GLU	N-CA-C	5.25	116.49	109.83
1	6z	217	ALA	N-CA-CB	-5.25	103.09	111.43
1	6B	76	GLU	O-C-N	-5.25	116.56	122.12
1	6B	197	ASP	CA-C-O	-5.25	115.30	120.70
1	6R	62	HIS	N-CA-C	5.25	118.82	111.74
1	6S	155	GLN	O-C-N	-5.25	116.82	123.01
1	6V	21	ASN	CA-C-N	5.25	127.31	120.28
1	6V	21	ASN	C-N-CA	5.25	127.31	120.28
1	7c	60	GLY	O-C-N	5.25	127.22	122.18
1	7l	81	ASP	CA-C-N	5.25	128.28	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7l	81	ASP	C-N-CA	5.25	128.28	120.31
1	7l	151	LEU	CD1-CG-CD2	-5.25	99.26	110.80
1	7m	169	TYR	CA-C-N	5.25	127.31	120.28
1	7m	169	TYR	C-N-CA	5.25	127.31	120.28
1	7s	189	LEU	CA-C-N	5.25	127.31	120.28
1	7s	189	LEU	C-N-CA	5.25	127.31	120.28
1	7C	87	HIS	O-C-N	-5.25	116.57	123.02
1	7R	172	LEU	CA-C-N	5.25	127.26	120.44
1	7R	172	LEU	C-N-CA	5.25	127.26	120.44
1	7W	129	ILE	O-C-N	-5.25	116.29	121.96
1	8c	99	PRO	O-C-N	5.25	129.25	122.85
1	8i	133	TRP	CA-C-N	5.25	127.37	120.60
1	8i	133	TRP	C-N-CA	5.25	127.37	120.60
1	8n	163	ASP	O-C-N	-5.25	116.56	122.12
1	8t	154	ARG	NE-CZ-NH2	-5.25	114.48	119.20
1	8E	50	GLN	CA-C-N	5.25	127.57	120.44
1	8E	50	GLN	C-N-CA	5.25	127.57	120.44
1	8H	75	GLU	N-CA-C	5.25	117.00	111.28
1	8N	99	PRO	N-CA-CB	-5.25	97.16	102.72
1	8Z	153	ILE	CA-C-O	5.25	126.04	120.48
1	9e	87	HIS	CA-C-O	5.25	127.28	121.56
1	9e	143	ARG	N-CA-C	5.25	117.08	111.36
1	9i	39	MET	N-CA-CB	5.25	117.62	110.01
1	9m	202	LEU	CA-C-N	5.25	127.57	120.44
1	9m	202	LEU	C-N-CA	5.25	127.57	120.44
1	9n	59	VAL	N-CA-C	5.25	115.86	109.30
1	9p	158	LYS	N-CA-CB	-5.25	102.46	110.33
1	9u	3	VAL	CA-CB-CG1	5.25	119.32	110.40
1	9y	186	THR	CA-CB-OG1	5.25	117.47	109.60
1	9z	126	VAL	O-C-N	-5.25	116.78	121.87
1	9J	18	ARG	CA-C-N	5.25	127.26	120.44
1	9J	18	ARG	C-N-CA	5.25	127.26	120.44
1	9J	174	ALA	N-CA-CB	-5.25	102.39	110.16
1	Y	82	ARG	O-C-N	-5.25	116.67	122.07
1	9S	164	TYR	O-C-N	-5.25	116.56	122.12
1	a9	173	ARG	NE-CZ-NH1	5.25	126.75	121.50
1	ak	111	LEU	CA-C-N	5.25	127.57	120.38
1	ak	111	LEU	C-N-CA	5.25	127.57	120.38
1	al	71	GLU	CA-C-O	5.25	126.11	120.55
1	am	179	GLN	N-CA-C	5.25	117.00	111.28
1	ao	32	PHE	O-C-N	-5.25	116.57	123.02
1	ao	111	LEU	N-CA-C	5.25	117.68	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	182	LYS	O-C-N	-5.25	116.56	122.12
1	aw	100	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	aE	71	GLU	N-CA-CB	5.25	117.83	110.12
1	b8	166	ASP	O-C-N	-5.25	116.56	122.12
1	bj	211	LEU	N-CA-CB	5.25	118.95	110.40
1	bp	149	SER	O-C-N	-5.25	117.40	123.33
1	bw	45	GLU	N-CA-C	5.25	118.47	111.75
1	bC	83	LEU	CA-C-N	5.25	130.16	122.66
1	bC	83	LEU	C-N-CA	5.25	130.16	122.66
1	bD	219	GLN	CG-CD-NE2	-5.25	108.53	116.40
1	bE	213	GLU	O-C-N	-5.25	115.41	122.23
1	bQ	128	GLU	CA-C-N	5.25	127.17	120.56
1	bQ	128	GLU	C-N-CA	5.25	127.17	120.56
1	bV	54	THR	CA-C-N	5.25	127.62	120.54
1	bV	54	THR	C-N-CA	5.25	127.62	120.54
1	c2	69	LEU	CA-C-N	5.25	127.31	120.28
1	c2	69	LEU	C-N-CA	5.25	127.31	120.28
1	c2	152	ASP	CA-CB-CG	-5.25	107.35	112.60
1	1d	160	PRO	CA-C-N	5.25	128.69	120.82
1	1d	160	PRO	C-N-CA	5.25	128.69	120.82
1	cg	130	TYR	N-CA-C	5.25	117.08	111.36
1	cp	142	VAL	CA-CB-CG2	-5.25	101.48	110.40
1	ct	100	ARG	CA-C-N	5.25	126.70	120.14
1	ct	100	ARG	C-N-CA	5.25	126.70	120.14
1	cv	195	ASN	CA-CB-CG	5.25	117.85	112.60
1	cx	39	MET	CA-C-N	5.25	127.31	120.28
1	cx	39	MET	C-N-CA	5.25	127.31	120.28
1	cx	155	GLN	CA-C-N	5.25	128.08	121.36
1	cx	155	GLN	C-N-CA	5.25	128.08	121.36
1	cD	185	MET	CG-SD-CE	-5.25	89.36	100.90
1	cN	98	GLU	CA-C-O	-5.25	115.64	120.94
1	cY	188	THR	CA-CB-OG1	5.25	117.47	109.60
1	d2	35	GLU	CB-CG-CD	5.25	121.52	112.60
1	d2	210	THR	CA-C-N	5.25	127.31	120.28
1	d2	210	THR	C-N-CA	5.25	127.31	120.28
1	d6	62	HIS	N-CA-CB	-5.25	101.62	110.49
1	dz	230	VAL	CA-CB-CG1	5.25	119.32	110.40
1	dG	227	LYS	N-CA-C	5.25	116.59	107.93
1	1m	113	GLU	CA-C-N	5.25	127.26	120.44
1	1m	113	GLU	C-N-CA	5.25	127.26	120.44
1	1m	214	MET	CA-C-N	5.25	127.26	120.44
1	1m	214	MET	C-N-CA	5.25	127.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dN	195	ASN	O-C-N	-5.25	116.63	121.30
1	dQ	82	ARG	CB-CA-C	-5.25	101.93	110.85
1	eb	11	VAL	N-CA-C	5.25	116.14	108.53
1	1p	31	ALA	N-CA-C	5.25	117.08	111.36
1	1p	124	ILE	N-CA-C	-5.25	101.99	107.60
1	ec	87	HIS	N-CA-C	5.25	116.70	109.15
1	et	21	ASN	OD1-CG-ND2	-5.25	117.35	122.60
1	eI	196	PRO	N-CA-C	5.25	121.57	113.75
1	eP	102	SER	CA-C-N	5.25	127.26	120.44
1	eP	102	SER	C-N-CA	5.25	127.26	120.44
1	eR	56	LEU	O-C-N	-5.25	116.56	122.12
1	eV	23	TRP	N-CA-C	5.25	117.00	111.28
1	f2	164	TYR	N-CA-CB	-5.25	102.41	110.12
1	fh	5	ASN	CA-C-N	5.25	131.22	121.62
1	fh	5	ASN	C-N-CA	5.25	131.22	121.62
1	fo	65	ALA	CA-C-N	5.25	127.31	120.28
1	fo	65	ALA	C-N-CA	5.25	127.31	120.28
1	fV	219	GLN	CB-CG-CD	5.25	121.52	112.60
1	fY	208	ALA	O-C-N	-5.25	115.61	122.59
1	g1	146	SER	N-CA-CB	5.25	118.56	110.01
1	m	36	VAL	N-CA-C	5.25	117.65	111.09
1	o	202	LEU	N-CA-C	5.25	117.00	111.28
1	A	84	HIS	CE1-NE2-CD2	-5.25	103.75	109.00
1	A	227	LYS	N-CA-C	5.25	121.98	110.80
1	L	50	GLN	OE1-CD-NE2	-5.25	117.35	122.60
1	T	42	ALA	CA-C-N	5.25	128.28	120.31
1	T	42	ALA	C-N-CA	5.25	128.28	120.31
1	T	117	TRP	CA-C-O	5.25	126.11	120.55
1	6	79	GLU	N-CA-C	5.25	117.00	111.28
1	7	40	PHE	N-CA-C	5.25	116.68	111.07
1	7	99	PRO	O-C-N	-5.25	116.68	123.03
1	gv	98	GLU	N-CA-CB	5.25	117.46	109.75
1	gA	18	ARG	CA-C-N	5.25	127.31	120.28
1	gA	18	ARG	C-N-CA	5.25	127.31	120.28
1	1E	137	GLY	O-C-N	-5.25	117.16	122.19
1	1F	98	GLU	CA-C-O	-5.25	115.50	119.59
1	gM	167	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	gT	173	ARG	N-CA-CB	-5.25	102.41	110.01
1	gW	191	VAL	O-C-N	-5.25	116.43	121.83
1	h5	230	VAL	CB-CA-C	-5.25	105.33	111.94
1	hh	145	TYR	O-C-N	-5.25	115.55	122.42
1	hl	205	LEU	CB-CA-C	-5.25	102.64	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	23	TRP	CA-C-O	5.25	126.11	120.55
1	ia	27	VAL	CA-C-O	5.25	126.41	120.95
1	ib	193	ASN	CB-CA-C	5.25	119.79	109.72
1	iI	90	PRO	CA-C-O	-5.25	115.56	121.43
1	j0	192	GLN	O-C-N	-5.25	116.56	122.12
1	1U	207	PRO	N-CA-CB	5.25	107.18	101.88
1	1V	128	GLU	CA-C-N	5.25	127.37	120.60
1	1V	128	GLU	C-N-CA	5.25	127.37	120.60
1	1X	77	ALA	CB-CA-C	5.25	119.50	110.79
1	jO	22	ALA	N-CA-C	5.25	117.08	111.36
1	k8	132	ARG	NH1-CZ-NH2	-5.25	112.48	119.30
1	k9	84	HIS	ND1-CE1-NE2	5.25	113.64	108.40
1	ki	13	GLN	N-CA-C	-5.25	101.21	109.50
1	kk	5	ASN	OD1-CG-ND2	-5.25	117.36	122.60
1	kp	221	VAL	CA-C-O	5.25	127.34	120.78
1	kw	52	LEU	CA-C-O	5.25	125.98	120.42
1	kS	16	SER	CA-C-N	5.25	124.75	119.19
1	kS	16	SER	C-N-CA	5.25	124.75	119.19
1	l2	200	THR	CA-C-N	5.25	127.87	120.42
1	l2	200	THR	C-N-CA	5.25	127.87	120.42
1	ld	86	VAL	CA-C-O	5.25	127.02	121.04
1	lk	20	LEU	CA-C-N	5.25	128.28	120.31
1	lk	20	LEU	C-N-CA	5.25	128.28	120.31
1	ln	195	ASN	CA-C-O	5.25	124.68	119.75
1	lK	129	ILE	CA-C-O	5.25	126.41	120.95
1	2G	114	GLN	OE1-CD-NE2	-5.25	117.36	122.60
1	2H	199	LYS	N-CA-C	5.25	121.97	110.80
1	2T	31	ALA	N-CA-C	-5.25	106.73	113.23
1	31	52	LEU	N-CA-C	5.25	117.90	111.82
1	39	53	ASN	CA-C-O	-5.25	114.99	120.55
1	3g	19	THR	O-C-N	-5.25	116.67	122.07
1	3j	67	GLN	CA-C-N	5.25	127.31	120.28
1	3j	67	GLN	C-N-CA	5.25	127.31	120.28
1	3G	37	ILE	CA-C-O	-5.25	112.92	119.95
1	3H	59	VAL	CA-C-O	-5.25	114.60	120.95
1	3L	35	GLU	CA-C-N	5.25	127.64	120.46
1	3L	35	GLU	C-N-CA	5.25	127.64	120.46
1	3X	86	VAL	O-C-N	-5.25	116.95	122.67
1	4e	161	PHE	CA-C-O	5.25	125.83	119.38
1	4g	61	GLY	CA-C-N	5.25	129.59	122.19
1	4g	61	GLY	C-N-CA	5.25	129.59	122.19
1	4p	161	PHE	O-C-N	-5.25	116.17	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4y	66	MET	N-CA-C	5.25	117.00	111.28
1	4D	46	GLY	CA-C-N	5.25	129.74	121.56
1	4D	46	GLY	C-N-CA	5.25	129.74	121.56
1	4V	35	GLU	O-C-N	-5.25	115.27	122.46
1	4Y	199	LYS	N-CA-C	5.25	117.40	111.11
1	51	223	GLY	CA-C-N	5.25	125.22	120.03
1	51	223	GLY	C-N-CA	5.25	125.22	120.03
1	5N	91	ILE	CA-C-N	5.25	128.62	120.60
1	5N	91	ILE	C-N-CA	5.25	128.62	120.60
1	5X	121	ASN	CB-CA-C	-5.25	102.79	110.13
1	63	66	MET	O-C-N	-5.25	116.08	122.22
1	69	92	GLU	N-CA-CB	5.25	118.65	111.25
1	6f	91	ILE	CA-C-N	5.25	128.62	120.60
1	6f	91	ILE	C-N-CA	5.25	128.62	120.60
1	6u	36	VAL	CA-C-N	5.25	125.47	120.43
1	6u	36	VAL	C-N-CA	5.25	125.47	120.43
1	6A	192	GLN	CG-CD-OE1	-5.25	110.31	120.80
1	6B	7	GLN	OE1-CD-NE2	-5.25	117.36	122.60
1	76	167	ARG	NE-CZ-NH2	5.25	123.92	119.20
1	7F	224	PRO	N-CA-C	5.25	121.42	113.81
1	7K	194	ALA	O-C-N	-5.25	116.20	122.65
1	8d	79	GLU	N-CA-C	5.25	117.00	111.28
1	8v	148	THR	N-CA-C	5.25	118.08	110.42
1	8w	60	GLY	CA-C-N	5.25	130.77	121.01
1	8w	60	GLY	C-N-CA	5.25	130.77	121.01
1	8Z	100	ARG	NE-CZ-NH2	-5.25	114.48	119.20
1	93	45	GLU	CB-CG-CD	5.25	121.52	112.60
1	9f	65	ALA	CA-C-N	5.25	127.26	120.44
1	9f	65	ALA	C-N-CA	5.25	127.26	120.44
1	9f	176	GLN	CA-CB-CG	5.25	124.59	114.10
1	9l	135	ILE	CA-C-N	5.25	127.31	120.28
1	9l	135	ILE	C-N-CA	5.25	127.31	120.28
1	9r	201	ILE	O-C-N	-5.25	116.54	121.94
1	9w	11	VAL	O-C-N	-5.25	117.54	123.20
1	9A	166	ASP	O-C-N	-5.25	116.56	122.12
1	a9	26	VAL	CA-C-N	-5.25	112.04	120.64
1	a9	26	VAL	C-N-CA	-5.25	112.04	120.64
1	ah	145	TYR	CB-CA-C	-5.25	100.73	109.75
1	an	36	VAL	CA-CB-CG1	5.25	119.32	110.40
1	aM	34	PRO	CA-N-CD	-5.25	104.66	112.00
1	14	27	VAL	CA-C-N	5.25	127.57	120.65
1	14	27	VAL	C-N-CA	5.25	127.57	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b6	23	TRP	N-CA-C	5.25	116.68	111.07
1	bf	144	MET	CA-C-N	5.25	127.31	120.28
1	bf	144	MET	C-N-CA	5.25	127.31	120.28
1	1b	29	GLU	CB-CA-C	-5.25	102.52	111.02
1	c2	31	ALA	N-CA-C	5.25	121.97	110.80
1	c4	193	ASN	N-CA-CB	-5.25	103.64	110.88
1	cv	64	ALA	CA-C-N	5.25	127.31	120.28
1	cv	64	ALA	C-N-CA	5.25	127.31	120.28
1	cO	191	VAL	CA-C-N	5.25	127.83	120.28
1	cO	191	VAL	C-N-CA	5.25	127.83	120.28
1	cX	54	THR	N-CA-C	5.25	117.40	111.11
1	d0	199	LYS	O-C-N	-5.25	116.67	122.07
1	1i	16	SER	CA-C-N	5.25	125.05	119.28
1	1i	16	SER	C-N-CA	5.25	125.05	119.28
1	dc	144	MET	N-CA-C	5.25	117.74	111.71
1	dG	219	GLN	N-CA-CB	5.25	118.26	110.29
1	dH	86	VAL	O-C-N	-5.25	116.99	122.81
1	dJ	183	ASN	N-CA-C	5.25	116.81	111.14
1	dO	108	THR	N-CA-CB	5.25	118.61	110.80
1	dX	223	GLY	CA-C-O	5.25	129.02	121.52
1	e3	63	GLN	OE1-CD-NE2	-5.25	117.36	122.60
1	ec	42	ALA	N-CA-CB	-5.25	102.12	109.94
1	eD	113	GLU	CA-C-N	5.25	127.57	120.44
1	eD	113	GLU	C-N-CA	5.25	127.57	120.44
1	eE	196	PRO	N-CA-C	5.25	120.44	113.57
1	1t	14	ALA	O-C-N	-5.25	116.55	123.16
1	fd	3	VAL	CA-C-N	5.25	131.56	121.54
1	fd	3	VAL	C-N-CA	5.25	131.56	121.54
1	1w	195	ASN	OD1-CG-ND2	-5.25	117.36	122.60
1	fW	108	THR	CA-C-O	5.25	124.96	119.03
1	e	152	ASP	CA-C-N	5.25	127.64	120.35
1	e	152	ASP	C-N-CA	5.25	127.64	120.35
1	p	147	PRO	O-C-N	-5.25	115.19	122.27
1	y	114	GLN	CA-C-N	5.25	127.17	120.56
1	y	114	GLN	C-N-CA	5.25	127.17	120.56
1	B	113	GLU	CB-CA-C	-5.25	102.08	110.79
1	K	114	GLN	CA-C-N	5.25	127.65	120.46
1	K	114	GLN	C-N-CA	5.25	127.65	120.46
1	U	37	ILE	N-CA-C	5.25	119.23	112.67
1	9	206	GLY	CA-C-O	-5.25	114.02	121.52
1	g9	4	GLN	CG-CD-NE2	5.24	124.27	116.40
1	ga	229	ARG	NH1-CZ-NH2	-5.24	112.48	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	83	LEU	O-C-N	-5.24	115.79	122.34
1	gm	1	PRO	O-C-N	5.24	131.39	123.00
1	gt	179	GLN	N-CA-C	5.24	117.67	111.33
1	gy	33	SER	CA-C-O	-5.24	115.10	120.87
1	gB	148	THR	N-CA-C	5.24	117.72	108.75
1	gE	67	GLN	CG-CD-NE2	-5.24	108.53	116.40
1	gG	74	ASN	CA-CB-CG	5.24	117.84	112.60
1	gP	229	ARG	CA-C-O	5.24	126.09	120.38
1	gQ	138	LEU	CA-C-N	5.24	127.31	120.28
1	gQ	138	LEU	C-N-CA	5.24	127.31	120.28
1	gR	182	LYS	O-C-N	-5.24	116.56	122.12
1	1I	176	GLN	CA-C-N	5.24	128.55	121.05
1	1I	176	GLN	C-N-CA	5.24	128.55	121.05
1	hh	158	LYS	CA-C-N	5.24	129.66	121.17
1	hh	158	LYS	C-N-CA	5.24	129.66	121.17
1	hk	67	GLN	N-CA-C	5.24	116.68	111.07
1	1J	128	GLU	CB-CG-CD	5.24	121.52	112.60
1	hr	159	GLU	O-C-N	-5.24	118.35	121.71
1	hF	121	ASN	O-C-N	-5.24	116.72	121.39
1	hS	100	ARG	N-CA-C	-5.24	102.01	110.14
1	hT	159	GLU	CA-C-N	5.24	125.16	119.76
1	hT	159	GLU	C-N-CA	5.24	125.16	119.76
1	hZ	103	ASP	N-CA-CB	5.24	117.92	110.16
1	i7	59	VAL	CB-CA-C	-5.24	104.30	111.33
1	i7	112	GLN	N-CA-C	5.24	117.67	111.33
1	i8	212	GLU	CA-CB-CG	5.24	124.59	114.10
1	i9	161	PHE	CA-C-O	5.24	125.98	120.42
1	ig	51	ASP	N-CA-CB	5.24	117.61	110.01
1	io	29	GLU	O-C-N	-5.24	116.43	122.09
1	ip	60	GLY	CA-C-N	5.24	126.45	120.53
1	ip	60	GLY	C-N-CA	5.24	126.45	120.53
1	iu	101	GLY	CA-C-O	5.24	126.15	120.75
1	1Q	88	ALA	N-CA-C	-5.24	106.93	113.38
1	1R	73	ILE	CA-C-N	5.24	127.57	120.44
1	1R	73	ILE	C-N-CA	5.24	127.57	120.44
1	iI	108	THR	N-CA-C	5.24	119.78	113.17
1	iS	20	LEU	N-CA-CB	5.24	117.92	110.16
1	iW	126	VAL	CA-C-N	5.24	125.66	119.94
1	iW	126	VAL	C-N-CA	5.24	125.66	119.94
1	iZ	42	ALA	N-CA-C	-5.24	105.64	111.36
1	j0	65	ALA	O-C-N	-5.24	116.43	122.09
1	j0	220	GLY	CA-C-O	5.24	125.53	119.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j2	191	VAL	O-C-N	-5.24	114.92	121.84
1	j8	129	ILE	N-CA-C	5.24	115.97	110.62
1	j8	146	SER	N-CA-C	5.24	119.88	112.75
1	jb	209	ALA	N-CA-C	5.24	121.97	110.80
1	jd	102	SER	CA-C-N	5.24	127.31	120.28
1	jd	102	SER	C-N-CA	5.24	127.31	120.28
1	jl	164	TYR	CA-C-O	5.24	126.11	120.55
1	1V	106	GLY	CA-C-N	5.24	127.74	120.29
1	1V	106	GLY	C-N-CA	5.24	127.74	120.29
1	1V	135	ILE	N-CA-C	5.24	115.97	110.62
1	jp	4	GLN	CA-C-N	5.24	130.94	122.29
1	jp	4	GLN	C-N-CA	5.24	130.94	122.29
1	jr	212	GLU	CA-C-N	5.24	127.31	120.28
1	jr	212	GLU	C-N-CA	5.24	127.31	120.28
1	jv	65	ALA	CA-C-N	5.24	127.62	120.54
1	jv	65	ALA	C-N-CA	5.24	127.62	120.54
1	jC	101	GLY	CA-C-N	5.24	129.48	120.72
1	jC	101	GLY	C-N-CA	5.24	129.48	120.72
1	jD	33	SER	N-CA-CB	-5.24	105.89	111.29
1	jF	135	ILE	O-C-N	-5.24	116.78	121.87
1	jP	204	ALA	O-C-N	-5.24	116.43	122.09
1	jU	187	GLU	CA-C-O	-5.24	113.01	120.51
1	jZ	133	TRP	CB-CG-CD2	-5.24	119.46	126.80
1	k9	204	ALA	N-CA-C	5.24	116.68	111.07
1	kf	204	ALA	N-CA-CB	-5.24	102.15	110.28
1	kj	81	ASP	CA-C-N	5.24	128.28	120.31
1	kj	81	ASP	C-N-CA	5.24	128.28	120.31
1	km	49	PRO	CB-CA-C	5.24	121.76	112.64
1	kn	16	SER	CA-C-N	5.24	125.30	119.32
1	kn	16	SER	C-N-CA	5.24	125.30	119.32
1	kr	23	TRP	CD2-CE2-CZ2	-5.24	117.16	122.40
1	ks	139	ASN	CA-C-O	5.24	126.11	120.55
1	kE	163	ASP	CB-CA-C	5.24	117.53	109.03
1	kF	211	LEU	N-CA-C	-5.24	105.46	111.07
1	kN	87	HIS	CA-CB-CG	-5.24	108.56	113.80
1	24	146	SER	CA-C-O	-5.24	114.59	120.25
1	kR	42	ALA	CA-C-N	5.24	131.80	121.58
1	kR	42	ALA	C-N-CA	5.24	131.80	121.58
1	kT	161	PHE	CA-CB-CG	-5.24	108.56	113.80
1	lb	36	VAL	CA-C-N	5.24	124.52	120.33
1	lb	36	VAL	C-N-CA	5.24	124.52	120.33
1	ld	37	ILE	CA-C-O	-5.24	112.92	119.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lG	37	ILE	O-C-N	-5.24	115.12	121.10
1	lH	50	GLN	CA-C-N	5.24	127.31	120.28
1	lH	50	GLN	C-N-CA	5.24	127.31	120.28
1	2a	48	THR	CA-C-N	5.24	126.39	119.84
1	2a	48	THR	C-N-CA	5.24	126.39	119.84
1	2b	38	PRO	N-CA-CB	5.24	108.75	103.25
1	2b	155	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	2e	97	ARG	N-CA-C	5.24	116.86	110.41
1	2g	32	PHE	O-C-N	-5.24	115.79	122.34
1	2n	77	ALA	CA-C-N	5.24	127.74	120.29
1	2n	77	ALA	C-N-CA	5.24	127.74	120.29
1	2o	170	LYS	N-CA-C	5.24	117.00	111.28
1	2u	199	LYS	O-C-N	-5.24	116.56	122.12
1	2z	87	HIS	N-CA-C	5.24	116.25	108.60
1	2F	89	GLY	CA-C-N	5.24	125.25	119.90
1	2F	89	GLY	C-N-CA	5.24	125.25	119.90
1	2I	16	SER	CB-CA-C	-5.24	101.55	109.26
1	2P	177	ALA	CA-C-O	5.24	127.10	121.44
1	2Q	111	LEU	O-C-N	-5.24	115.62	122.59
1	2R	80	TRP	CD2-CE2-CZ2	-5.24	117.16	122.40
1	2T	118	MET	N-CA-C	5.24	118.94	112.54
1	2X	74	ASN	CA-CB-CG	5.24	117.84	112.60
1	3c	214	MET	O-C-N	-5.24	116.43	122.09
1	3f	137	GLY	O-C-N	-5.24	115.88	122.70
1	3l	92	GLU	CB-CA-C	-5.24	103.30	110.22
1	3m	212	GLU	N-CA-C	5.24	117.00	111.28
1	3u	54	THR	O-C-N	-5.24	116.67	122.07
1	3E	95	GLN	O-C-N	-5.24	117.19	123.06
1	3R	25	LYS	N-CA-C	5.24	116.68	111.07
1	3R	45	GLU	CA-C-O	5.24	126.52	120.60
1	3W	37	ILE	N-CA-CB	-5.24	103.87	111.21
1	3Z	195	ASN	N-CA-C	5.24	121.40	109.81
1	4e	75	GLU	CB-CG-CD	5.24	121.52	112.60
1	4j	151	LEU	CA-C-N	5.24	129.47	120.72
1	4j	151	LEU	C-N-CA	5.24	129.47	120.72
1	4k	193	ASN	CA-CB-CG	-5.24	107.36	112.60
1	4m	8	GLY	N-CA-C	-5.24	105.10	112.60
1	4m	182	LYS	N-CA-C	5.24	117.00	111.28
1	4t	229	ARG	CB-CG-CD	5.24	123.36	111.30
1	4A	18	ARG	CA-C-N	5.24	127.26	120.44
1	4A	18	ARG	C-N-CA	5.24	127.26	120.44
1	4S	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4V	110	THR	O-C-N	-5.24	117.07	122.94
1	57	121	ASN	CA-CB-CG	-5.24	107.36	112.60
1	5c	70	LYS	N-CA-C	5.24	117.08	111.36
1	5j	27	VAL	N-CA-C	-5.24	107.64	112.83
1	5k	97	ARG	CA-C-N	5.24	127.70	120.67
1	5k	97	ARG	C-N-CA	5.24	127.70	120.67
1	5x	13	GLN	CB-CA-C	-5.24	102.70	110.62
1	5B	184	TRP	N-CA-C	5.24	117.00	111.28
1	5D	66	MET	CA-C-N	5.24	127.26	120.44
1	5D	66	MET	C-N-CA	5.24	127.26	120.44
1	5E	98	GLU	N-CA-C	5.24	117.03	109.48
1	5I	11	VAL	CB-CA-C	-5.24	102.84	110.81
1	5N	227	LYS	N-CA-CB	5.24	117.61	110.01
1	5O	127	GLY	O-C-N	5.24	127.28	122.19
1	5X	229	ARG	N-CA-C	5.24	117.69	110.35
1	67	100	ARG	NH1-CZ-NH2	-5.24	112.48	119.30
1	6a	84	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	6b	48	THR	O-C-N	-5.24	115.76	121.53
1	6o	141	ILE	O-C-N	-5.24	116.77	121.91
1	6q	177	ALA	CA-C-N	5.24	128.16	120.71
1	6q	177	ALA	C-N-CA	5.24	128.16	120.71
1	6s	7	GLN	CB-CG-CD	5.24	121.51	112.60
1	6O	50	GLN	O-C-N	-5.24	116.56	122.12
1	6Q	110	THR	CA-CB-OG1	5.24	117.47	109.60
1	6U	189	LEU	CA-C-O	5.24	123.40	119.68
1	7b	71	GLU	N-CA-C	5.24	117.74	111.71
1	7b	126	VAL	CB-CA-C	-5.24	105.17	112.04
1	7k	52	LEU	CA-C-N	5.24	127.56	120.38
1	7k	52	LEU	C-N-CA	5.24	127.56	120.38
1	7G	148	THR	CA-C-N	5.24	129.17	120.94
1	7G	148	THR	C-N-CA	5.24	129.17	120.94
1	7V	28	GLU	CA-C-O	5.24	126.11	120.55
1	7X	108	THR	O-C-N	-5.24	115.84	122.19
1	82	178	SER	O-C-N	-5.24	116.11	122.82
1	8l	193	ASN	CA-C-O	5.24	126.14	119.95
1	8o	37	ILE	CA-C-N	5.24	124.56	118.85
1	8o	37	ILE	C-N-CA	5.24	124.56	118.85
1	8v	143	ARG	NH1-CZ-NH2	-5.24	112.48	119.30
1	8F	197	ASP	N-CA-CB	5.24	117.61	110.01
1	8H	48	THR	N-CA-CB	5.24	115.42	109.49
1	8Q	204	ALA	N-CA-C	5.24	117.00	111.28
1	8W	190	LEU	CA-C-N	5.24	129.64	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	190	LEU	C-N-CA	5.24	129.64	121.35
1	9b	162	ARG	O-C-N	-5.24	115.41	122.23
1	9i	22	ALA	CA-C-N	5.24	127.31	120.28
1	9i	22	ALA	C-N-CA	5.24	127.31	120.28
1	9C	197	ASP	CA-CB-CG	5.24	117.84	112.60
1	9J	153	ILE	CA-C-O	-5.24	115.62	121.23
1	ad	104	ILE	CA-C-O	5.24	126.35	119.85
1	ad	147	PRO	CA-N-CD	-5.24	104.66	112.00
1	ak	134	ILE	CB-CA-C	-5.24	104.98	112.22
1	13	100	ARG	CD-NE-CZ	-5.24	117.06	124.40
1	aK	169	TYR	CA-CB-CG	-5.24	104.46	113.90
1	b7	156	GLY	N-CA-C	5.24	123.04	112.34
1	bd	199	LYS	N-CA-C	5.24	117.00	111.28
1	bd	216	THR	O-C-N	5.24	128.13	122.15
1	bg	57	ASN	N-CA-CB	5.24	118.41	110.28
1	bi	44	SER	O-C-N	-5.24	115.90	122.35
1	bj	203	LYS	O-C-N	-5.24	116.17	122.15
1	bk	160	PRO	N-CA-C	5.24	119.44	111.15
1	bn	57	ASN	CA-C-N	5.24	127.62	120.54
1	bn	57	ASN	C-N-CA	5.24	127.62	120.54
1	bu	185	MET	O-C-N	-5.24	116.56	122.12
1	bw	173	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	by	53	ASN	OD1-CG-ND2	5.24	127.84	122.60
1	bA	41	SER	CA-C-O	5.24	126.51	120.90
1	19	198	CYS	O-C-N	5.24	127.54	122.09
1	bH	50	GLN	O-C-N	-5.24	116.56	122.12
1	bP	19	THR	O-C-N	-5.24	116.67	122.07
1	bX	208	ALA	N-CA-C	5.24	118.82	111.74
1	c9	189	LEU	N-CA-C	5.24	117.68	111.33
1	ca	130	TYR	N-CA-C	5.24	117.00	111.28
1	cf	87	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	cu	91	ILE	O-C-N	-5.24	117.23	123.05
1	cw	163	ASP	N-CA-C	5.24	117.90	111.82
1	cH	37	ILE	CA-C-O	-5.24	114.72	118.71
1	cK	127	GLY	CA-C-N	5.24	127.83	120.28
1	cK	127	GLY	C-N-CA	5.24	127.83	120.28
1	cX	227	LYS	CA-C-N	5.24	128.67	120.75
1	cX	227	LYS	C-N-CA	5.24	128.67	120.75
1	d6	58	THR	CA-C-N	-5.24	113.66	120.63
1	d6	58	THR	C-N-CA	-5.24	113.66	120.63
1	du	132	ARG	CB-CA-C	5.24	119.11	110.88
1	dF	132	ARG	CA-C-N	5.24	127.31	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dF	132	ARG	C-N-CA	5.24	127.31	120.28
1	dH	176	GLN	N-CA-C	-5.24	106.74	112.72
1	1n	64	ALA	CA-C-N	5.24	127.26	120.44
1	1n	64	ALA	C-N-CA	5.24	127.26	120.44
1	dT	161	PHE	CA-CB-CG	-5.24	108.56	113.80
1	dW	100	ARG	CD-NE-CZ	5.24	131.74	124.40
1	e0	176	GLN	CA-C-N	5.24	128.67	120.75
1	e0	176	GLN	C-N-CA	5.24	128.67	120.75
1	e1	207	PRO	CA-C-N	5.24	130.88	122.86
1	e1	207	PRO	C-N-CA	5.24	130.88	122.86
1	e4	118	MET	O-C-N	-5.24	116.56	122.12
1	ev	212	GLU	N-CA-C	5.24	117.74	111.71
1	eC	76	GLU	N-CA-CB	5.24	117.92	110.16
1	eL	56	LEU	CA-C-O	5.24	125.98	120.42
1	eM	166	ASP	CA-C-N	5.24	127.31	120.28
1	eM	166	ASP	C-N-CA	5.24	127.31	120.28
1	eO	219	GLN	CA-C-N	5.24	128.35	121.85
1	eO	219	GLN	C-N-CA	5.24	128.35	121.85
1	eW	112	GLN	O-C-N	-5.24	116.56	122.12
1	f3	110	THR	N-CA-C	-5.24	102.70	110.46
1	fa	174	ALA	CA-C-N	5.24	129.12	121.31
1	fa	174	ALA	C-N-CA	5.24	129.12	121.31
1	fk	163	ASP	CA-CB-CG	-5.24	107.36	112.60
1	fn	24	VAL	N-CA-CB	5.24	116.69	110.55
1	fz	41	SER	N-CA-C	5.24	117.40	111.11
1	1A	12	HIS	CA-C-N	5.24	130.81	122.94
1	1A	12	HIS	C-N-CA	5.24	130.81	122.94
1	1A	29	GLU	CB-CG-CD	-5.24	103.69	112.60
1	g0	41	SER	N-CA-CB	5.24	117.61	110.01
1	g4	15	ILE	CA-CB-CG1	5.24	119.31	110.40
1	1B	195	ASN	O-C-N	-5.24	116.04	121.60
1	f	120	HIS	CB-CG-CD2	-5.24	124.38	131.20
1	g	4	GLN	CB-CG-CD	5.24	121.51	112.60
1	q	84	HIS	O-C-N	-5.24	114.15	121.12
1	r	182	LYS	N-CA-C	5.24	117.67	111.33
1	y	229	ARG	O-C-N	-5.24	116.90	123.04
1	A	141	ILE	CA-C-N	5.24	127.64	120.46
1	A	141	ILE	C-N-CA	5.24	127.64	120.46
1	G	202	LEU	CA-C-O	5.24	126.00	119.97
1	V	152	ASP	CA-C-O	5.24	125.81	119.31
1	W	208	ALA	CB-CA-C	5.24	118.85	110.09
1	gc	12	HIS	N-CA-C	5.24	117.27	107.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gB	160	PRO	N-CA-C	5.24	119.32	111.14
1	1E	197	ASP	CA-C-O	-5.24	115.32	120.82
1	1F	195	ASN	CB-CA-C	5.24	120.50	110.17
1	h0	198	CYS	N-CA-C	5.24	117.90	111.82
1	h3	37	ILE	CA-C-N	5.24	124.69	119.24
1	h3	37	ILE	C-N-CA	5.24	124.69	119.24
1	hy	130	TYR	N-CA-C	5.24	116.68	111.07
1	hK	117	TRP	CA-C-O	5.24	126.10	120.70
1	hO	71	GLU	CB-CA-C	-5.24	102.65	110.88
1	1M	27	VAL	N-CA-C	5.24	115.97	110.62
1	1N	162	ARG	CA-C-N	5.24	127.73	120.29
1	1N	162	ARG	C-N-CA	5.24	127.73	120.29
1	1O	5	ASN	CB-CG-ND2	5.24	124.26	116.40
1	iv	167	ARG	N-CA-CB	5.24	118.41	110.28
1	iB	214	MET	CB-CA-C	-5.24	101.77	110.68
1	iC	64	ALA	N-CA-CB	-5.24	102.39	110.20
1	iD	128	GLU	N-CA-C	5.24	117.67	111.33
1	iJ	104	ILE	N-CA-C	5.24	115.45	110.42
1	ji	193	ASN	CA-C-O	5.24	125.98	120.42
1	jB	89	GLY	CA-C-O	-5.24	114.02	121.52
1	jE	215	MET	CG-SD-CE	-5.24	89.37	100.90
1	jK	201	ILE	CA-C-O	5.24	126.40	120.95
1	jL	225	GLY	O-C-N	-5.24	117.42	122.87
1	jO	71	GLU	CB-CA-C	-5.24	102.42	110.81
1	k6	128	GLU	N-CA-C	5.24	117.40	111.11
1	kd	49	PRO	CB-CA-C	5.24	120.21	111.56
1	kD	164	TYR	O-C-N	-5.24	116.67	122.07
1	kI	85	PRO	CA-C-N	5.24	128.20	120.91
1	kI	85	PRO	C-N-CA	5.24	128.20	120.91
1	kR	165	VAL	O-C-N	-5.24	116.43	121.83
1	l3	197	ASP	N-CA-CB	-5.24	102.40	110.16
1	li	186	THR	N-CA-C	5.24	119.30	113.01
1	29	102	SER	N-CA-C	5.24	116.99	111.28
1	2q	87	HIS	N-CA-C	5.24	121.97	110.80
1	2A	100	ARG	O-C-N	-5.24	116.25	122.65
1	2B	175	GLU	CB-CA-C	5.24	118.08	109.90
1	2J	213	GLU	N-CA-CB	-5.24	102.89	110.70
1	2K	51	ASP	N-CA-CB	5.24	117.67	110.07
1	2K	197	ASP	CA-C-N	5.24	127.25	120.44
1	2K	197	ASP	C-N-CA	5.24	127.25	120.44
1	47	72	THR	CA-C-N	5.24	127.17	120.56
1	47	72	THR	C-N-CA	5.24	127.17	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	48	93	PRO	N-CA-C	5.24	119.81	111.26
1	4g	63	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	4g	195	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	4l	131	LYS	N-CA-CB	5.24	118.33	109.78
1	4E	16	SER	N-CA-C	5.24	116.25	109.65
1	5B	86	VAL	N-CA-CB	5.24	118.64	111.41
1	5V	230	VAL	N-CA-C	5.24	115.86	110.36
1	5X	194	ALA	N-CA-CB	5.24	117.86	110.36
1	68	117	TRP	CB-CG-CD1	5.24	134.76	126.90
1	6e	120	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	6J	14	ALA	CA-C-O	5.24	127.11	121.55
1	6O	87	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	7t	14	ALA	CA-C-O	-5.24	115.78	121.44
1	7C	173	ARG	N-CA-CB	-5.24	102.41	110.12
1	7Z	193	ASN	CA-C-N	5.24	130.91	121.06
1	7Z	193	ASN	C-N-CA	5.24	130.91	121.06
1	81	158	LYS	CA-C-O	5.24	124.95	119.03
1	82	191	VAL	CA-C-N	5.24	127.30	120.28
1	82	191	VAL	C-N-CA	5.24	127.30	120.28
1	86	136	LEU	CB-CA-C	5.24	119.49	110.79
1	8g	188	THR	CA-CB-CG2	5.24	119.41	110.50
1	8k	74	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	8n	78	ALA	N-CA-C	5.24	116.99	111.28
1	8v	120	HIS	CB-CG-ND1	5.24	130.56	122.70
1	8U	65	ALA	O-C-N	-5.24	116.64	122.09
1	9a	37	ILE	CA-C-O	5.24	122.20	118.69
1	9u	46	GLY	CA-C-O	-5.24	113.74	120.03
1	9L	198	CYS	O-C-N	-5.24	116.67	122.07
1	9M	64	ALA	N-CA-C	5.24	118.83	112.23
1	9S	145	TYR	CA-C-O	5.24	125.67	119.48
1	a7	162	ARG	N-CA-C	5.24	117.90	111.82
1	a9	169	TYR	CA-C-O	-5.24	115.29	120.90
1	10	11	VAL	O-C-N	-5.24	117.10	123.02
1	af	96	MET	N-CA-C	-5.24	101.57	109.85
1	af	160	PRO	CA-C-O	-5.24	111.06	120.60
1	az	142	VAL	N-CA-C	5.24	116.60	110.62
1	aO	121	ASN	CA-CB-CG	-5.24	107.36	112.60
1	aR	98	GLU	O-C-N	-5.24	115.90	121.30
1	aT	183	ASN	CA-CB-CG	-5.24	107.36	112.60
1	aV	147	PRO	N-CA-C	5.24	120.41	113.86
1	aW	40	PHE	CB-CA-C	5.24	119.59	110.68
1	bj	88	ALA	CA-C-N	5.24	130.10	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bj	88	ALA	C-N-CA	5.24	130.10	121.87
1	bD	21	ASN	CA-C-O	5.24	126.11	120.55
1	bI	149	SER	N-CA-C	5.24	117.89	110.50
1	bO	194	ALA	CA-C-N	5.24	127.68	120.39
1	bO	194	ALA	C-N-CA	5.24	127.68	120.39
1	bT	9	GLN	CG-CD-OE1	5.24	131.28	120.80
1	cf	172	LEU	CA-C-N	5.24	128.28	120.31
1	cf	172	LEU	C-N-CA	5.24	128.28	120.31
1	cj	155	GLN	CA-C-O	5.24	127.11	121.55
1	cS	72	THR	O-C-N	-5.24	116.56	122.12
1	d2	155	GLN	CA-C-O	5.24	126.89	120.92
1	1j	81	ASP	CA-CB-CG	5.24	117.84	112.60
1	dJ	85	PRO	CA-C-O	-5.24	115.61	121.32
1	dM	125	PRO	CA-C-O	-5.24	115.80	121.77
1	dR	169	TYR	CG-CD1-CE1	-5.24	113.34	121.20
1	e2	77	ALA	CA-C-O	5.24	125.98	120.42
1	ef	12	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	ep	201	ILE	CA-C-O	5.24	126.40	120.95
1	eK	25	LYS	CA-C-N	5.24	127.17	120.56
1	eK	25	LYS	C-N-CA	5.24	127.17	120.56
1	eQ	64	ALA	CA-C-O	5.24	126.32	120.82
1	1u	141	ILE	N-CA-CB	5.24	117.67	110.54
1	fa	1	PRO	CA-N-CD	-5.24	104.66	112.00
1	fd	161	PHE	CA-C-O	-5.24	114.68	120.60
1	fm	165	VAL	N-CA-C	5.24	115.86	110.36
1	fD	173	ARG	CA-C-N	5.24	127.73	120.29
1	fD	173	ARG	C-N-CA	5.24	127.73	120.29
1	fP	7	GLN	CG-CD-NE2	5.24	124.26	116.40
1	g7	230	VAL	O-C-N	-5.24	116.01	122.88
1	u	126	VAL	CA-C-O	-5.24	115.60	121.05
1	I	167	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	K	165	VAL	CA-C-O	5.24	126.18	120.57
1	gc	105	ALA	CA-C-N	5.24	132.09	121.93
1	gc	105	ALA	C-N-CA	5.24	132.09	121.93
1	gd	48	THR	CA-C-N	5.24	126.39	119.84
1	gd	48	THR	C-N-CA	5.24	126.39	119.84
1	gf	143	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	gp	110	THR	O-C-N	-5.24	116.88	122.85
1	gA	49	PRO	N-CA-C	5.24	120.72	113.65
1	gK	87	HIS	N-CA-C	5.24	115.97	108.74
1	gM	148	THR	N-CA-C	5.24	117.82	109.96
1	gV	82	ARG	NE-CZ-NH1	5.24	126.74	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h6	54	THR	O-C-N	-5.24	115.82	122.27
1	h7	120	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	ha	12	HIS	CA-C-O	-5.24	115.29	121.16
1	hc	145	TYR	CB-CA-C	-5.24	102.29	110.94
1	hw	50	GLN	O-C-N	-5.24	115.31	122.33
1	hz	182	LYS	CA-C-N	5.24	127.56	120.38
1	hz	182	LYS	C-N-CA	5.24	127.56	120.38
1	hA	167	ARG	O-C-N	-5.24	115.83	122.27
1	hK	141	ILE	N-CA-C	5.24	115.97	110.62
1	hM	82	ARG	CA-C-N	5.24	127.61	120.54
1	hM	82	ARG	C-N-CA	5.24	127.61	120.54
1	hQ	199	LYS	CB-CG-CD	5.24	123.35	111.30
1	hU	92	GLU	CA-C-O	-5.24	114.72	120.17
1	hU	113	GLU	N-CA-CB	5.24	117.82	110.12
1	i1	154	ARG	CA-C-N	5.24	128.66	120.75
1	i1	154	ARG	C-N-CA	5.24	128.66	120.75
1	i6	59	VAL	N-CA-C	5.24	119.38	112.04
1	ic	191	VAL	N-CA-C	5.24	116.01	110.72
1	ii	58	THR	N-CA-CB	5.24	118.24	110.49
1	it	204	ALA	N-CA-C	5.24	116.68	111.07
1	iy	120	HIS	ND1-CG-CD2	-5.24	100.86	106.10
1	iH	15	ILE	CA-C-O	5.24	127.21	121.13
1	iQ	74	ASN	N-CA-CB	5.24	118.40	110.28
1	1S	212	GLU	CA-C-O	-5.24	115.00	120.55
1	iX	132	ARG	CG-CD-NE	-5.24	100.47	112.00
1	j9	168	PHE	N-CA-C	5.24	116.68	110.97
1	ja	165	VAL	CB-CA-C	-5.24	105.07	112.14
1	jb	173	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	jk	183	ASN	CB-CA-C	-5.24	99.36	110.31
1	jB	103	ASP	CA-C-N	5.24	128.75	120.47
1	jB	103	ASP	C-N-CA	5.24	128.75	120.47
1	jI	165	VAL	O-C-N	-5.24	116.79	121.87
1	jJ	111	LEU	N-CA-C	5.24	116.99	111.28
1	jN	183	ASN	O-C-N	-5.24	116.18	122.15
1	jN	195	ASN	CB-CG-ND2	5.24	124.26	116.40
1	1Y	38	PRO	CA-C-N	5.24	127.30	120.28
1	1Y	38	PRO	C-N-CA	5.24	127.30	120.28
1	jT	170	LYS	O-C-N	-5.24	116.57	122.12
1	1Z	219	GLN	CB-CA-C	-5.24	102.40	110.26
1	k3	226	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	k8	181	VAL	CA-CB-CG2	-5.24	101.49	110.40
1	k9	172	LEU	CA-C-N	5.24	127.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k9	172	LEU	C-N-CA	5.24	127.30	120.28
1	22	71	GLU	N-CA-C	-5.24	105.63	112.23
1	ky	72	THR	CA-C-N	5.24	127.92	120.53
1	ky	72	THR	C-N-CA	5.24	127.92	120.53
1	kF	136	LEU	CA-C-N	5.24	125.76	119.94
1	kF	136	LEU	C-N-CA	5.24	125.76	119.94
1	kH	62	HIS	CB-CA-C	-5.24	103.43	111.66
1	kP	93	PRO	N-CA-C	-5.24	106.38	113.40
1	kQ	9	GLN	CA-C-N	5.24	128.78	121.24
1	kQ	9	GLN	C-N-CA	5.24	128.78	121.24
1	kT	196	PRO	CA-C-N	-5.24	113.63	120.44
1	kT	196	PRO	C-N-CA	-5.24	113.63	120.44
1	kU	25	LYS	N-CA-C	5.24	116.99	111.28
1	kV	28	GLU	N-CA-CB	5.24	117.82	110.12
1	l0	53	ASN	CA-C-N	5.24	127.30	120.28
1	l0	53	ASN	C-N-CA	5.24	127.30	120.28
1	26	166	ASP	CA-CB-CG	-5.24	107.36	112.60
1	la	83	LEU	CA-C-N	5.24	130.15	122.66
1	la	83	LEU	C-N-CA	5.24	130.15	122.66
1	lf	226	HIS	N-CA-C	5.24	119.62	113.23
1	ll	137	GLY	CA-C-O	-5.24	115.65	121.05
1	lm	219	GLN	CA-C-O	5.24	126.92	121.15
1	lr	220	GLY	CA-C-O	5.24	125.58	119.19
1	28	149	SER	CA-C-O	5.24	127.46	121.28
1	lE	70	LYS	CA-C-O	5.24	126.10	120.55
1	2f	40	PHE	CA-C-N	5.24	127.25	120.44
1	2f	40	PHE	C-N-CA	5.24	127.25	120.44
1	2u	188	THR	N-CA-C	5.24	119.14	112.12
1	2x	227	LYS	O-C-N	-5.24	116.68	122.86
1	2z	181	VAL	CA-C-O	5.24	126.40	120.95
1	2D	12	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	2F	219	GLN	CA-C-N	5.24	131.23	122.16
1	2F	219	GLN	C-N-CA	5.24	131.23	122.16
1	2S	124	ILE	CA-C-N	5.24	126.39	119.84
1	2S	124	ILE	C-N-CA	5.24	126.39	119.84
1	36	167	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	3d	23	TRP	CA-CB-CG	5.24	123.56	113.60
1	3h	191	VAL	N-CA-CB	5.24	116.33	110.51
1	3j	18	ARG	CD-NE-CZ	-5.24	117.06	124.40
1	3u	42	ALA	N-CA-CB	-5.24	102.42	110.12
1	3v	103	ASP	CA-C-O	5.24	125.98	120.42
1	3A	147	PRO	CB-CA-C	5.24	120.21	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	138	LEU	N-CA-C	5.24	116.68	111.07
1	3P	134	ILE	O-C-N	-5.24	116.78	121.91
1	40	206	GLY	N-CA-C	5.24	123.03	112.34
1	44	117	TRP	N-CA-C	5.24	116.68	111.07
1	4g	97	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	4q	84	HIS	CA-CB-CG	-5.24	108.56	113.80
1	4t	26	VAL	CA-C-N	5.24	127.64	120.46
1	4t	26	VAL	C-N-CA	5.24	127.64	120.46
1	4w	61	GLY	N-CA-C	5.24	119.27	112.25
1	4z	155	GLN	CA-C-O	-5.24	115.84	121.45
1	4E	59	VAL	N-CA-C	5.24	115.45	110.42
1	4H	40	PHE	N-CA-CB	-5.24	102.41	110.01
1	4T	112	GLN	CB-CA-C	-5.24	102.09	110.79
1	51	7	GLN	N-CA-C	-5.24	106.75	112.72
1	5o	182	LYS	N-CA-C	5.24	116.80	111.14
1	5v	194	ALA	O-C-N	-5.24	116.68	122.86
1	5w	53	ASN	CA-C-O	-5.24	114.97	120.63
1	5x	183	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	5V	55	MET	O-C-N	-5.24	116.57	122.12
1	5X	116	GLY	O-C-N	5.24	129.51	122.70
1	5X	183	ASN	O-C-N	-5.24	116.47	122.08
1	5Y	18	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	69	189	LEU	N-CA-C	5.24	116.99	111.28
1	6m	190	LEU	N-CA-C	5.24	117.40	111.11
1	6n	173	ARG	N-CA-C	5.24	116.99	111.28
1	6t	173	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	6z	57	ASN	O-C-N	-5.24	114.78	122.43
1	6N	117	TRP	CE2-CD2-CE3	5.24	124.04	118.80
1	6T	13	GLN	O-C-N	-5.24	116.56	123.16
1	6Y	135	ILE	N-CA-CB	5.24	116.33	110.51
1	76	67	GLN	N-CA-C	5.24	116.99	111.28
1	77	196	PRO	N-CA-C	5.24	120.44	113.57
1	79	30	LYS	O-C-N	-5.24	116.02	122.05
1	7i	4	GLN	N-CA-CB	5.24	117.97	110.06
1	7o	211	LEU	CA-C-O	-5.24	115.00	120.55
1	7x	6	LEU	N-CA-C	-5.24	101.47	108.34
1	7y	229	ARG	CA-C-O	5.24	127.11	121.55
1	7O	154	ARG	CA-C-N	5.24	128.21	120.82
1	7O	154	ARG	C-N-CA	5.24	128.21	120.82
1	7T	168	PHE	CA-C-N	5.24	127.30	120.28
1	7T	168	PHE	C-N-CA	5.24	127.30	120.28
1	84	170	LYS	N-CA-C	5.24	117.40	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	86	41	SER	N-CA-C	5.24	116.68	111.07
1	8a	3	VAL	CA-C-O	5.24	125.91	120.36
1	8i	20	LEU	N-CA-C	5.24	116.68	111.07
1	8j	18	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	8n	144	MET	N-CA-C	5.24	117.40	111.11
1	8q	24	VAL	CA-C-N	5.24	127.30	120.28
1	8q	24	VAL	C-N-CA	5.24	127.30	120.28
1	8u	215	MET	O-C-N	-5.24	115.63	122.39
1	8M	135	ILE	O-C-N	-5.24	116.79	121.87
1	8N	15	ILE	N-CA-C	5.24	116.34	109.58
1	8Q	225	GLY	N-CA-C	5.24	118.90	112.14
1	8W	26	VAL	N-CA-CB	5.24	117.67	110.54
1	8X	8	GLY	O-C-N	5.24	127.59	122.19
1	8X	85	PRO	CA-C-N	-5.24	116.11	123.13
1	8X	85	PRO	C-N-CA	-5.24	116.11	123.13
1	8X	206	GLY	O-C-N	-5.24	116.53	121.77
1	98	40	PHE	CA-C-N	5.24	127.25	120.44
1	98	40	PHE	C-N-CA	5.24	127.25	120.44
1	9g	154	ARG	CA-C-O	-5.24	115.67	121.33
1	9o	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	9t	166	ASP	N-CA-C	5.24	117.07	111.36
1	9y	94	GLY	O-C-N	-5.24	115.89	122.70
1	9G	188	THR	OG1-CB-CG2	-5.24	98.82	109.30
1	9K	151	LEU	O-C-N	-5.24	116.09	122.22
1	9M	137	GLY	N-CA-C	5.24	119.48	112.77
1	9U	114	GLN	CA-C-N	5.24	127.36	120.60
1	9U	114	GLN	C-N-CA	5.24	127.36	120.60
1	9U	114	GLN	N-CA-C	5.24	116.68	111.07
1	9Z	155	GLN	CA-C-N	5.24	130.10	121.87
1	9Z	155	GLN	C-N-CA	5.24	130.10	121.87
1	Z	112	GLN	N-CA-C	5.24	117.07	111.36
1	Z	208	ALA	O-C-N	-5.24	115.31	122.33
1	a3	175	GLU	N-CA-CB	-5.24	103.13	111.62
1	aa	115	ILE	CA-CB-CG2	5.24	119.41	110.50
1	ah	15	ILE	CA-C-O	5.24	127.21	121.13
1	aq	176	GLN	CA-C-N	5.24	128.53	120.82
1	aq	176	GLN	C-N-CA	5.24	128.53	120.82
1	12	162	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	13	73	ILE	CB-CA-C	5.24	119.45	112.22
1	aR	207	PRO	N-CA-C	5.24	121.56	113.75
1	aW	158	LYS	N-CA-C	-5.24	104.48	111.87
1	b8	14	ALA	O-C-N	-5.24	116.48	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	100	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
1	be	119	THR	CA-C-O	5.24	125.42	119.18
1	bo	4	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	by	137	GLY	N-CA-C	5.24	119.02	112.73
1	bE	167	ARG	CA-C-N	5.24	127.25	120.44
1	bE	167	ARG	C-N-CA	5.24	127.25	120.44
1	bP	183	ASN	CB-CA-C	-5.24	101.94	110.85
1	cf	185	MET	CA-C-N	-5.24	112.34	120.31
1	cf	185	MET	C-N-CA	-5.24	112.34	120.31
1	cm	122	PRO	CA-C-N	5.24	125.16	119.76
1	cm	122	PRO	C-N-CA	5.24	125.16	119.76
1	cw	121	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	cw	134	ILE	O-C-N	-5.24	116.77	121.91
1	cz	80	TRP	N-CA-C	5.24	118.46	111.75
1	cI	154	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	1g	36	VAL	O-C-N	-5.24	116.04	122.12
1	cS	201	ILE	CA-C-N	5.24	127.30	120.28
1	cS	201	ILE	C-N-CA	5.24	127.30	120.28
1	cX	7	GLN	CB-CG-CD	5.24	121.51	112.60
1	cZ	180	GLU	CA-C-N	5.24	127.86	120.42
1	cZ	180	GLU	C-N-CA	5.24	127.86	120.42
1	do	133	TRP	N-CA-C	5.24	116.68	111.07
1	dv	153	ILE	O-C-N	-5.24	116.96	122.67
1	dw	101	GLY	O-C-N	-5.24	117.09	122.17
1	dy	137	GLY	CA-C-O	5.24	126.06	120.40
1	dD	168	PHE	CA-C-O	5.24	126.30	120.90
1	dI	84	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	dK	160	PRO	CA-C-O	-5.24	115.56	121.43
1	dX	218	CYS	CA-C-N	5.24	128.66	120.75
1	dX	218	CYS	C-N-CA	5.24	128.66	120.75
1	dY	207	PRO	CA-C-N	5.24	130.47	122.24
1	dY	207	PRO	C-N-CA	5.24	130.47	122.24
1	1p	55	MET	CA-C-O	5.24	126.51	120.90
1	er	11	VAL	N-CA-C	5.24	116.13	108.53
1	ez	159	GLU	CA-C-N	5.24	125.18	119.78
1	ez	159	GLU	C-N-CA	5.24	125.18	119.78
1	1s	145	TYR	CB-CG-CD2	-5.24	112.94	120.80
1	eJ	126	VAL	CA-C-N	5.24	125.65	119.94
1	eJ	126	VAL	C-N-CA	5.24	125.65	119.94
1	eV	85	PRO	CA-N-CD	-5.24	104.66	112.00
1	eY	157	PRO	N-CA-CB	-5.24	98.59	103.46
1	f7	134	ILE	CA-C-N	5.24	127.64	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	134	ILE	C-N-CA	5.24	127.64	120.46
1	fd	166	ASP	N-CA-CB	-5.24	102.20	110.06
1	fi	206	GLY	CA-C-N	5.24	126.39	119.84
1	fi	206	GLY	C-N-CA	5.24	126.39	119.84
1	1w	86	VAL	N-CA-C	5.24	116.77	109.80
1	fn	217	ALA	CA-C-N	5.24	130.75	122.78
1	fn	217	ALA	C-N-CA	5.24	130.75	122.78
1	fq	182	LYS	N-CA-C	5.24	117.67	111.33
1	fr	208	ALA	O-C-N	5.24	128.79	122.35
1	fz	167	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
1	fA	162	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	fI	107	THR	CA-C-O	5.24	126.10	120.70
1	fJ	114	GLN	N-CA-C	5.24	117.41	111.02
1	fT	102	SER	O-C-N	-5.24	114.03	122.41
1	g7	72	THR	N-CA-C	5.24	117.40	111.11
1	0	49	PRO	N-CA-C	5.24	121.56	113.75
1	0	96	MET	O-C-N	-5.24	117.35	123.27
1	b	150	ILE	CA-C-O	-5.24	113.55	119.42
1	c	212	GLU	N-CA-C	5.24	117.67	111.33
1	C	103	ASP	O-C-N	-5.24	116.56	122.12
1	H	186	THR	CA-CB-CG2	5.24	119.41	110.50
1	P	175	GLU	CA-C-N	5.24	131.55	121.54
1	P	175	GLU	C-N-CA	5.24	131.55	121.54
1	gk	38	PRO	CA-C-N	5.24	127.30	120.28
1	gk	38	PRO	C-N-CA	5.24	127.30	120.28
1	gp	162	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	gB	202	LEU	CB-CA-C	-5.24	102.09	110.79
1	gS	51	ASP	CA-C-O	-5.24	115.31	120.70
1	gS	148	THR	CB-CA-C	5.24	116.24	109.80
1	h0	37	ILE	CA-C-O	-5.24	115.18	118.69
1	h5	179	GLN	CG-CD-OE1	5.24	131.28	120.80
1	h7	204	ALA	N-CA-CB	-5.24	102.43	110.44
1	1I	229	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	ho	7	GLN	CG-CD-OE1	-5.24	110.32	120.80
1	hx	97	ARG	N-CA-C	5.24	121.96	110.80
1	hC	79	GLU	N-CA-C	5.24	116.99	111.28
1	hS	202	LEU	N-CA-C	5.24	117.07	111.36
1	i2	120	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	i3	152	ASP	O-C-N	5.24	128.53	122.19
1	i5	182	LYS	N-CA-C	5.24	116.99	111.28
1	1P	152	ASP	N-CA-C	5.24	117.07	111.36
1	ix	42	ALA	CA-C-N	5.24	127.30	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ix	42	ALA	C-N-CA	5.24	127.30	120.28
1	iB	65	ALA	CA-C-O	5.24	126.10	120.55
1	iB	170	LYS	CA-C-N	5.24	127.25	120.44
1	iB	170	LYS	C-N-CA	5.24	127.25	120.44
1	iD	131	LYS	N-CA-C	5.24	117.73	111.71
1	iF	162	ARG	N-CA-C	5.24	116.99	111.28
1	iG	14	ALA	N-CA-CB	-5.24	102.62	110.17
1	iG	140	LYS	CA-C-N	5.24	127.64	120.46
1	iG	140	LYS	C-N-CA	5.24	127.64	120.46
1	iJ	216	THR	CA-C-N	5.24	129.72	120.87
1	iJ	216	THR	C-N-CA	5.24	129.72	120.87
1	iU	18	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	j9	45	GLU	N-CA-C	5.24	118.45	111.75
1	jg	74	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	jg	163	ASP	CA-C-O	5.24	126.32	120.82
1	jm	24	VAL	CA-C-N	5.24	127.30	120.28
1	jm	24	VAL	C-N-CA	5.24	127.30	120.28
1	jt	141	ILE	CB-CA-C	5.24	118.68	111.97
1	ju	194	ALA	N-CA-C	-5.24	103.11	110.50
1	jX	40	PHE	CA-C-N	5.24	127.30	120.28
1	jX	40	PHE	C-N-CA	5.24	127.30	120.28
1	k4	32	PHE	CA-CB-CG	-5.24	108.56	113.80
1	k9	66	MET	O-C-N	-5.24	116.67	122.07
1	kc	187	GLU	N-CA-C	5.24	119.73	113.23
1	kd	40	PHE	CB-CG-CD1	-5.24	111.79	120.70
1	kj	31	ALA	CA-C-O	5.24	126.29	120.63
1	kw	214	MET	O-C-N	-5.24	115.23	122.46
1	kA	204	ALA	N-CA-C	5.24	117.90	111.82
1	kJ	226	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	kN	200	THR	N-CA-C	5.24	117.73	111.71
1	kR	202	LEU	CD1-CG-CD2	5.24	122.32	110.80
1	kT	92	GLU	O-C-N	-5.24	116.19	121.27
1	kU	226	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	kX	170	LYS	N-CA-C	5.24	116.99	111.28
1	kZ	27	VAL	N-CA-CB	-5.24	103.42	110.54
1	kZ	149	SER	CA-CB-OG	5.24	121.58	111.10
1	l3	39	MET	N-CA-C	5.24	117.67	111.33
1	l5	135	ILE	CA-C-O	-5.24	115.30	120.85
1	l6	139	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	la	40	PHE	CA-CB-CG	-5.24	108.56	113.80
1	la	133	TRP	CB-CG-CD2	-5.24	119.47	126.80
1	lc	103	ASP	CA-CB-CG	-5.24	107.36	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	116	GLY	CA-C-N	5.24	127.56	120.38
1	27	116	GLY	C-N-CA	5.24	127.56	120.38
1	29	23	TRP	O-C-N	-5.24	116.67	122.07
1	lC	65	ALA	N-CA-C	5.24	117.07	111.36
1	lF	12	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	lH	110	THR	CA-C-N	5.24	127.82	120.28
1	lH	110	THR	C-N-CA	5.24	127.82	120.28
1	lN	84	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	lO	97	ARG	CG-CD-NE	-5.24	100.47	112.00
1	2g	215	MET	CA-C-O	5.24	125.40	119.27
1	2l	87	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	2t	142	VAL	O-C-N	-5.24	116.70	121.94
1	2B	188	THR	O-C-N	-5.24	115.82	121.95
1	2C	87	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	2E	144	MET	N-CA-CB	5.24	117.75	109.94
1	2E	165	VAL	CA-C-O	5.24	125.92	119.58
1	2G	173	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	3h	229	ARG	CA-C-O	5.24	124.58	118.97
1	3j	212	GLU	N-CA-C	5.24	117.41	111.02
1	3s	153	ILE	O-C-N	-5.24	117.60	123.26
1	3y	149	SER	O-C-N	-5.24	116.04	123.01
1	3z	53	ASN	N-CA-C	5.24	116.99	111.28
1	3z	63	GLN	CA-C-N	5.24	127.61	120.54
1	3z	63	GLN	C-N-CA	5.24	127.61	120.54
1	3C	55	MET	CA-C-O	-5.24	115.32	120.82
1	3N	110	THR	CA-CB-OG1	5.24	117.46	109.60
1	3Z	40	PHE	O-C-N	-5.24	116.67	122.07
1	4a	133	TRP	CG-CD2-CE3	5.24	139.14	133.90
1	4e	61	GLY	N-CA-C	5.24	117.95	111.93
1	4k	34	PRO	N-CA-C	5.24	123.26	112.47
1	4l	162	ARG	CA-C-O	5.24	126.32	120.82
1	4m	185	MET	N-CA-CB	5.24	117.91	110.16
1	4p	182	LYS	N-CA-C	5.24	116.99	111.28
1	4L	114	GLN	O-C-N	5.24	127.47	122.07
1	53	74	ASN	N-CA-C	5.24	117.73	111.71
1	55	122	PRO	N-CA-CB	5.24	108.36	102.60
1	56	96	MET	O-C-N	-5.24	116.99	123.33
1	5f	146	SER	N-CA-C	5.24	116.29	109.64
1	5g	32	PHE	CB-CG-CD2	-5.24	111.80	120.70
1	5r	39	MET	CA-C-N	5.24	127.25	120.44
1	5r	39	MET	C-N-CA	5.24	127.25	120.44
1	5r	226	HIS	CB-CG-CD2	-5.24	124.39	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5y	143	ARG	NE-CZ-NH2	-5.24	114.48	119.20
1	5F	24	VAL	O-C-N	-5.24	116.45	121.90
1	5T	12	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	63	12	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	6v	138	LEU	CB-CA-C	5.24	120.29	110.70
1	6y	178	SER	CA-C-N	5.24	127.30	120.28
1	6y	178	SER	C-N-CA	5.24	127.30	120.28
1	6B	15	ILE	CA-C-O	5.24	127.01	121.04
1	6K	62	HIS	N-CA-C	5.24	121.96	110.80
1	71	100	ARG	CA-CB-CG	5.24	124.58	114.10
1	74	219	GLN	OE1-CD-NE2	-5.24	117.36	122.60
1	7f	191	VAL	N-CA-C	5.24	117.43	111.88
1	7k	127	GLY	N-CA-C	5.24	119.48	112.77
1	7l	8	GLY	CA-C-O	5.24	125.21	119.55
1	7t	23	TRP	CA-CB-CG	5.24	123.55	113.60
1	7v	23	TRP	CB-CG-CD1	-5.24	119.04	126.90
1	7w	62	HIS	ND1-CG-CD2	5.24	111.34	106.10
1	7J	205	LEU	O-C-N	-5.24	115.18	122.20
1	7X	163	ASP	CA-C-O	5.24	126.10	120.55
1	7X	216	THR	CA-C-O	5.24	125.77	119.59
1	7Z	226	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	88	111	LEU	O-C-N	-5.24	116.57	122.12
1	89	19	THR	CA-C-N	5.24	127.25	120.44
1	89	19	THR	C-N-CA	5.24	127.25	120.44
1	8a	171	THR	OG1-CB-CG2	-5.24	98.82	109.30
1	8d	77	ALA	CA-C-N	5.24	127.25	120.44
1	8d	77	ALA	C-N-CA	5.24	127.25	120.44
1	8v	15	ILE	N-CA-C	5.24	116.16	109.30
1	8x	54	THR	N-CA-C	-5.24	105.74	111.82
1	8x	110	THR	CA-C-N	5.24	131.55	121.54
1	8x	110	THR	C-N-CA	5.24	131.55	121.54
1	8I	86	VAL	N-CA-C	5.24	120.24	109.34
1	8N	114	GLN	N-CA-C	5.24	116.67	111.07
1	8Y	77	ALA	CA-C-N	5.24	127.56	120.44
1	8Y	77	ALA	C-N-CA	5.24	127.56	120.44
1	93	187	GLU	N-CA-CB	-5.24	102.47	110.07
1	9a	177	ALA	CA-C-O	5.24	126.91	121.15
1	9i	158	LYS	O-C-N	-5.24	116.52	122.23
1	9B	207	PRO	N-CA-C	5.24	119.43	111.15
1	9L	11	VAL	CA-CB-CG2	5.24	119.31	110.40
1	9Y	124	ILE	N-CA-C	-5.24	102.00	107.60
1	9Z	191	VAL	CA-C-O	-5.24	114.23	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a0	48	THR	CA-C-N	5.24	126.39	119.84
1	a0	48	THR	C-N-CA	5.24	126.39	119.84
1	aa	184	TRP	CA-C-N	5.24	128.68	120.82
1	aa	184	TRP	C-N-CA	5.24	128.68	120.82
1	ad	180	GLU	O-C-N	-5.24	116.57	122.12
1	aH	13	GLN	CB-CG-CD	5.24	121.51	112.60
1	aH	166	ASP	CB-CA-C	5.24	119.19	110.81
1	aK	87	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	aK	157	PRO	CA-C-O	-5.24	111.64	119.34
1	aN	15	ILE	N-CA-C	5.24	117.00	109.51
1	aP	226	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	aS	174	ALA	N-CA-C	5.24	116.67	111.07
1	15	143	ARG	CD-NE-CZ	5.24	131.74	124.40
1	aZ	213	GLU	CA-C-O	5.24	126.00	119.97
1	b4	28	GLU	N-CA-C	5.24	116.67	111.07
1	b5	25	LYS	CB-CA-C	-5.24	102.09	110.79
1	b7	62	HIS	CA-C-N	5.24	127.82	120.28
1	b7	62	HIS	C-N-CA	5.24	127.82	120.28
1	b7	124	ILE	N-CA-C	-5.24	101.90	107.77
1	bf	43	LEU	CA-C-O	5.24	126.00	119.97
1	bi	102	SER	N-CA-CB	5.24	118.40	110.28
1	bp	186	THR	CA-CB-OG1	5.24	117.46	109.60
1	bx	159	GLU	CA-C-N	5.24	125.24	119.90
1	bx	159	GLU	C-N-CA	5.24	125.24	119.90
1	bx	216	THR	CA-CB-OG1	5.24	117.46	109.60
1	bD	58	THR	N-CA-CB	5.24	117.82	110.12
1	1a	84	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	cb	192	GLN	CB-CG-CD	-5.24	103.69	112.60
1	cf	228	ALA	N-CA-CB	-5.24	102.34	110.04
1	1d	185	MET	N-CA-CB	-5.24	102.41	110.16
1	cl	7	GLN	CA-CB-CG	5.24	124.58	114.10
1	cy	55	MET	CB-CA-C	-5.24	102.66	110.88
1	1f	226	HIS	CA-CB-CG	5.24	119.04	113.80
1	cN	124	ILE	N-CA-C	-5.24	102.47	107.76
1	cU	25	LYS	O-C-N	-5.24	116.67	122.07
1	cV	92	GLU	CA-C-O	-5.24	114.57	119.91
1	d2	170	LYS	CA-C-O	5.24	126.51	120.90
1	d4	120	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	d6	117	TRP	CH2-CZ2-CE2	5.24	124.31	117.50
1	dc	59	VAL	CA-CB-CG2	-5.24	101.50	110.40
1	dc	108	THR	CA-C-O	5.24	125.69	119.56
1	dr	84	HIS	CE1-NE2-CD2	-5.24	103.76	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1l	178	SER	N-CA-C	5.24	118.03	110.28
1	dC	95	GLN	CB-CA-C	-5.24	101.76	110.14
1	dF	121	ASN	O-C-N	-5.24	115.39	121.47
1	dO	115	ILE	CA-C-N	5.24	125.91	119.99
1	dO	115	ILE	C-N-CA	5.24	125.91	119.99
1	dR	168	PHE	CA-CB-CG	5.24	119.04	113.80
1	e1	111	LEU	N-CA-C	5.24	116.99	111.28
1	e1	159	GLU	CB-CA-C	5.24	117.64	109.42
1	ed	181	VAL	CA-C-O	5.24	126.40	120.95
1	ee	190	LEU	N-CA-C	5.24	116.99	111.28
1	el	185	MET	N-CA-CB	5.24	117.82	110.12
1	ew	24	VAL	CA-C-N	5.24	127.82	120.28
1	ew	24	VAL	C-N-CA	5.24	127.82	120.28
1	ey	130	TYR	N-CA-CB	-5.24	102.13	109.94
1	ez	133	TRP	N-CA-C	5.24	117.07	111.36
1	eE	25	LYS	CA-C-O	5.24	126.29	120.63
1	eM	54	THR	N-CA-C	-5.24	105.57	111.28
1	1t	116	GLY	CA-C-O	-5.24	115.34	121.00
1	eU	184	TRP	CA-C-O	5.24	126.10	120.55
1	eV	222	GLY	O-C-N	-5.24	115.85	122.82
1	eZ	64	ALA	CA-C-O	-5.24	114.97	120.63
1	f0	9	GLN	CB-CG-CD	5.24	121.50	112.60
1	f1	35	GLU	N-CA-C	5.24	119.30	113.01
1	f1	76	GLU	N-CA-C	-5.24	105.25	111.69
1	f6	212	GLU	N-CA-C	5.24	116.99	111.28
1	fa	70	LYS	O-C-N	-5.24	116.09	122.22
1	fg	22	ALA	CA-C-O	-5.24	114.97	120.63
1	fk	117	TRP	N-CA-C	5.24	116.99	111.28
1	fv	126	VAL	N-CA-C	5.24	117.60	111.05
1	fw	138	LEU	N-CA-C	5.24	116.99	111.28
1	fB	53	ASN	N-CA-C	5.24	117.67	111.33
1	fF	143	ARG	CA-C-N	5.24	127.56	120.44
1	fF	143	ARG	C-N-CA	5.24	127.56	120.44
1	fM	198	CYS	N-CA-C	5.24	117.73	111.71
1	g4	18	ARG	O-C-N	5.24	127.67	122.12
1	j	19	THR	CB-CA-C	-5.24	102.62	110.90
1	l	62	HIS	O-C-N	-5.24	116.67	122.91
1	2	98	GLU	CA-C-O	-5.24	114.72	120.17
1	v	110	THR	CA-CB-OG1	5.24	117.46	109.60
1	C	230	VAL	CA-C-O	-5.24	115.70	120.73
1	3	229	ARG	CG-CD-NE	-5.24	100.47	112.00
1	H	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gb	174	ALA	CA-C-O	5.24	125.97	120.42
1	gk	37	ILE	N-CA-C	5.24	118.63	112.35
1	gx	179	GLN	N-CA-C	5.24	117.73	111.71
1	gz	14	ALA	CA-C-O	5.24	127.10	121.55
1	gB	13	GLN	CA-C-N	5.24	128.66	120.75
1	gB	13	GLN	C-N-CA	5.24	128.66	120.75
1	1E	161	PHE	CA-C-N	5.24	127.30	120.28
1	1E	161	PHE	C-N-CA	5.24	127.30	120.28
1	gH	57	ASN	N-CA-C	-5.24	106.67	113.16
1	hi	81	ASP	CA-CB-CG	5.24	117.84	112.60
1	hx	34	PRO	N-CA-C	5.24	123.26	112.47
1	i5	185	MET	CA-C-O	5.24	126.32	120.82
1	i9	61	GLY	N-CA-C	5.24	120.75	112.06
1	ik	14	ALA	CA-C-N	5.24	128.42	120.77
1	ik	14	ALA	C-N-CA	5.24	128.42	120.77
1	il	206	GLY	CA-C-N	5.24	126.39	119.84
1	il	206	GLY	C-N-CA	5.24	126.39	119.84
1	ir	83	LEU	O-C-N	-5.24	116.57	122.12
1	it	173	ARG	CA-C-N	5.24	127.73	120.29
1	it	173	ARG	C-N-CA	5.24	127.73	120.29
1	iJ	70	LYS	N-CA-C	5.24	116.99	111.28
1	iL	222	GLY	O-C-N	-5.24	117.30	123.17
1	1S	99	PRO	N-CA-C	5.24	123.26	112.47
1	iY	81	ASP	N-CA-C	5.24	116.99	111.28
1	iZ	209	ALA	N-CA-C	5.24	121.96	110.80
1	j6	177	ALA	CA-C-N	5.24	128.28	120.90
1	j6	177	ALA	C-N-CA	5.24	128.28	120.90
1	jB	94	GLY	N-CA-C	-5.24	108.09	115.32
1	jE	13	GLN	CA-C-N	5.24	128.52	120.82
1	jE	13	GLN	C-N-CA	5.24	128.52	120.82
1	jN	76	GLU	O-C-N	5.24	127.67	122.12
1	jS	164	TYR	CA-C-N	-5.24	111.71	120.30
1	jS	164	TYR	C-N-CA	-5.24	111.71	120.30
1	k1	23	TRP	O-C-N	5.24	127.68	122.08
1	ke	175	GLU	N-CA-C	5.24	117.62	110.24
1	23	105	ALA	N-CA-C	5.24	116.99	111.28
1	kR	80	TRP	CB-CG-CD2	5.24	134.13	126.80
1	lx	162	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	lM	52	LEU	CA-C-O	5.24	125.99	119.97
1	2b	28	GLU	CA-C-O	5.24	126.32	120.82
1	2t	204	ALA	N-CA-CB	-5.24	102.41	110.16
1	2C	26	VAL	O-C-N	-5.24	116.44	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2F	6	LEU	CA-C-N	-5.24	114.37	122.59
1	2F	6	LEU	C-N-CA	-5.24	114.37	122.59
1	2X	195	ASN	CA-CB-CG	-5.24	107.36	112.60
1	30	190	LEU	CA-C-N	5.24	127.16	120.56
1	30	190	LEU	C-N-CA	5.24	127.16	120.56
1	3t	11	VAL	N-CA-C	-5.24	100.93	108.89
1	4C	41	SER	N-CA-CB	5.24	117.82	110.12
1	4E	136	LEU	N-CA-C	5.24	117.67	111.33
1	4N	159	GLU	N-CA-CB	-5.24	101.47	110.01
1	4R	220	GLY	N-CA-C	-5.24	104.73	110.96
1	4W	38	PRO	N-CA-CB	5.24	109.07	103.52
1	4W	142	VAL	N-CA-C	5.24	115.86	110.36
1	5e	226	HIS	CA-CB-CG	5.24	119.04	113.80
1	5v	205	LEU	N-CA-C	5.24	117.07	111.36
1	5G	154	ARG	CD-NE-CZ	5.24	131.73	124.40
1	5J	184	TRP	O-C-N	-5.24	116.68	122.07
1	5Z	114	GLN	CA-C-O	-5.24	115.30	120.90
1	67	149	SER	O-C-N	-5.24	116.83	123.01
1	6w	118	MET	CA-C-O	5.24	126.02	120.10
1	6B	179	GLN	CA-C-N	5.24	127.30	120.28
1	6B	179	GLN	C-N-CA	5.24	127.30	120.28
1	6H	105	ALA	N-CA-C	5.24	119.31	113.02
1	6I	180	GLU	CA-C-O	-5.24	113.95	119.97
1	6O	143	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	6Z	120	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	70	184	TRP	N-CA-CB	5.24	117.60	110.01
1	78	73	ILE	CA-C-N	5.24	127.30	120.28
1	78	73	ILE	C-N-CA	5.24	127.30	120.28
1	7m	225	GLY	CA-C-O	-5.24	114.54	120.30
1	7n	195	ASN	CB-CA-C	-5.24	101.49	109.50
1	7o	36	VAL	CA-C-O	5.24	125.42	119.92
1	7p	48	THR	O-C-N	5.24	125.91	121.20
1	7T	119	THR	CA-CB-OG1	5.24	117.45	109.60
1	8p	162	ARG	NE-CZ-NH1	5.24	126.74	121.50
1	8C	57	ASN	CA-CB-CG	5.24	117.84	112.60
1	8E	61	GLY	CA-C-N	5.24	129.80	122.36
1	8E	61	GLY	C-N-CA	5.24	129.80	122.36
1	8E	120	HIS	CA-C-N	5.24	131.55	122.28
1	8E	120	HIS	C-N-CA	5.24	131.55	122.28
1	8P	72	THR	N-CA-CB	5.24	117.92	110.06
1	9l	57	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	9N	114	GLN	OE1-CD-NE2	-5.24	117.36	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9U	150	ILE	CA-C-N	5.24	130.31	121.14
1	9U	150	ILE	C-N-CA	5.24	130.31	121.14
1	10	97	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
1	ak	100	ARG	N-CA-C	-5.24	103.00	110.59
1	av	196	PRO	CA-C-N	5.24	127.30	120.28
1	av	196	PRO	C-N-CA	5.24	127.30	120.28
1	aY	12	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	bj	35	GLU	CA-C-N	5.24	127.16	120.56
1	bj	35	GLU	C-N-CA	5.24	127.16	120.56
1	bo	102	SER	N-CA-C	5.24	117.07	111.36
1	bD	65	ALA	N-CA-CB	-5.24	102.48	110.07
1	c8	23	TRP	CA-CB-CG	5.24	123.55	113.60
1	cm	189	LEU	CA-C-N	5.24	127.30	120.28
1	cm	189	LEU	C-N-CA	5.24	127.30	120.28
1	cw	87	HIS	CG-CD2-NE2	5.24	112.44	107.20
1	cz	147	PRO	N-CA-C	5.24	123.26	112.47
1	cJ	198	CYS	CA-C-O	5.24	126.50	120.90
1	cR	30	LYS	CA-C-N	5.24	129.06	120.63
1	cR	30	LYS	C-N-CA	5.24	129.06	120.63
1	dx	170	LYS	CA-CB-CG	5.24	124.57	114.10
1	dF	134	ILE	CA-C-N	5.24	127.16	120.56
1	dF	134	ILE	C-N-CA	5.24	127.16	120.56
1	e5	133	TRP	CB-CG-CD1	5.24	134.76	126.90
1	ef	156	GLY	CA-C-N	5.24	124.56	118.85
1	ef	156	GLY	C-N-CA	5.24	124.56	118.85
1	eh	117	TRP	O-C-N	-5.24	116.48	122.08
1	eI	115	ILE	CA-CB-CG2	5.24	119.40	110.50
1	eM	61	GLY	CA-C-N	5.24	130.17	122.63
1	eM	61	GLY	C-N-CA	5.24	130.17	122.63
1	fe	127	GLY	O-C-N	-5.24	116.69	122.24
1	ft	28	GLU	O-C-N	-5.24	116.57	122.12
1	g3	76	GLU	CB-CA-C	-5.24	102.10	110.79
1	m	3	VAL	O-C-N	-5.24	117.50	123.10
1	F	184	TRP	CA-C-N	5.24	127.82	120.28
1	F	184	TRP	C-N-CA	5.24	127.82	120.28
1	U	172	LEU	CA-C-N	5.24	127.30	120.28
1	U	172	LEU	C-N-CA	5.24	127.30	120.28
1	g9	133	TRP	N-CA-C	5.24	117.67	111.33
1	ga	21	ASN	N-CA-C	5.24	116.67	111.07
1	ga	133	TRP	O-C-N	-5.24	116.68	122.07
1	gb	104	ILE	CA-C-O	5.24	126.39	120.95
1	gw	178	SER	N-CA-CB	5.24	118.30	109.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gA	96	MET	O-C-N	-5.24	116.91	123.04
1	1F	162	ARG	NH1-CZ-NH2	-5.24	112.50	119.30
1	1F	167	ARG	CA-C-O	5.24	126.10	120.55
1	gQ	81	ASP	O-C-N	-5.24	115.41	122.43
1	gT	21	ASN	CB-CA-C	-5.24	102.66	110.88
1	h4	21	ASN	CB-CG-ND2	-5.24	108.55	116.40
1	h5	162	ARG	N-CA-C	5.24	118.93	112.54
1	h7	19	THR	CA-CB-CG2	5.24	119.40	110.50
1	hl	181	VAL	N-CA-C	5.24	116.01	110.72
1	hv	182	LYS	CB-CA-C	-5.24	102.66	110.88
1	hF	121	ASN	N-CA-C	-5.24	101.02	109.40
1	hG	146	SER	CA-C-N	5.24	126.39	119.84
1	hG	146	SER	C-N-CA	5.24	126.39	119.84
1	hJ	150	ILE	CA-C-N	5.24	131.79	121.58
1	hJ	150	ILE	C-N-CA	5.24	131.79	121.58
1	hV	195	ASN	O-C-N	5.24	126.35	121.27
1	hZ	45	GLU	N-CA-C	5.24	121.95	110.80
1	1N	84	HIS	CA-C-O	-5.24	115.44	119.99
1	i5	132	ARG	CA-C-N	5.24	127.29	120.28
1	i5	132	ARG	C-N-CA	5.24	127.29	120.28
1	1O	84	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	ig	36	VAL	N-CA-C	5.24	115.96	110.62
1	im	186	THR	CA-C-O	5.24	126.32	120.82
1	1P	84	HIS	CB-CA-C	-5.24	103.53	110.34
1	it	204	ALA	O-C-N	-5.24	116.68	122.07
1	ix	29	GLU	CB-CG-CD	5.24	121.50	112.60
1	iA	46	GLY	CA-C-N	5.24	128.77	121.02
1	iA	46	GLY	C-N-CA	5.24	128.77	121.02
1	iM	86	VAL	O-C-N	-5.24	116.03	122.57
1	iM	208	ALA	N-CA-CB	5.24	118.23	110.53
1	iO	103	ASP	CA-C-N	5.24	127.91	120.53
1	iO	103	ASP	C-N-CA	5.24	127.91	120.53
1	iO	149	SER	N-CA-C	5.24	117.58	110.35
1	iS	38	PRO	O-C-N	5.24	129.34	122.27
1	iT	3	VAL	O-C-N	-5.24	117.64	123.03
1	iX	134	ILE	CA-C-N	5.24	127.63	120.46
1	iX	134	ILE	C-N-CA	5.24	127.63	120.46
1	1T	165	VAL	N-CA-C	5.24	115.96	110.62
1	j6	128	GLU	N-CA-C	5.24	116.67	111.07
1	jg	151	LEU	N-CA-CB	-5.24	102.24	110.30
1	jg	168	PHE	CA-CB-CG	-5.24	108.56	113.80
1	jB	87	HIS	CG-CD2-NE2	5.24	112.44	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jH	96	MET	N-CA-C	5.24	117.82	110.23
1	jL	95	GLN	N-CA-CB	5.24	119.83	111.56
1	jP	192	GLN	CG-CD-NE2	5.24	124.25	116.40
1	jS	20	LEU	CA-C-N	5.24	127.25	120.44
1	jS	20	LEU	C-N-CA	5.24	127.25	120.44
1	jS	154	ARG	N-CA-C	5.24	117.23	108.23
1	jX	228	ALA	N-CA-C	5.24	118.03	110.28
1	k4	163	ASP	CA-CB-CG	5.24	117.84	112.60
1	k5	195	ASN	CB-CA-C	5.24	118.93	109.61
1	kc	222	GLY	CA-C-O	5.24	125.96	121.88
1	21	173	ARG	CA-C-N	5.24	128.27	120.31
1	21	173	ARG	C-N-CA	5.24	128.27	120.31
1	kp	187	GLU	N-CA-C	5.24	116.79	111.14
1	kr	74	ASN	CA-C-O	5.24	126.32	120.82
1	22	181	VAL	CA-C-N	5.24	127.25	120.44
1	22	181	VAL	C-N-CA	5.24	127.25	120.44
1	kw	215	MET	CA-C-O	5.24	125.41	119.18
1	kB	32	PHE	N-CA-C	-5.24	105.35	112.26
1	23	15	ILE	N-CA-C	5.24	117.17	109.63
1	kF	84	HIS	N-CA-C	5.24	117.81	109.64
1	kH	54	THR	CA-C-N	5.24	127.61	120.54
1	kH	54	THR	C-N-CA	5.24	127.61	120.54
1	kM	25	LYS	O-C-N	-5.24	116.68	122.07
1	kX	135	ILE	O-C-N	-5.24	116.44	121.83
1	l9	192	GLN	O-C-N	-5.24	115.83	122.27
1	ld	138	LEU	N-CA-C	5.24	118.45	111.75
1	lk	197	ASP	N-CA-C	-5.24	105.47	111.07
1	lC	143	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	lR	139	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	2f	119	THR	CA-C-N	5.24	128.51	120.82
1	2f	119	THR	C-N-CA	5.24	128.51	120.82
1	2o	124	ILE	CA-C-O	-5.24	115.27	119.25
1	2t	69	LEU	N-CA-CB	-5.24	102.42	110.01
1	2u	127	GLY	CA-C-N	5.24	127.72	120.29
1	2u	127	GLY	C-N-CA	5.24	127.72	120.29
1	2A	143	ARG	N-CA-C	5.24	117.73	111.71
1	2D	193	ASN	CA-C-N	5.24	129.16	120.94
1	2D	193	ASN	C-N-CA	5.24	129.16	120.94
1	2U	79	GLU	CA-C-N	5.24	128.07	120.79
1	2U	79	GLU	C-N-CA	5.24	128.07	120.79
1	2Y	48	THR	CA-CB-OG1	5.24	117.45	109.60
1	36	138	LEU	N-CA-CB	5.24	117.91	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3j	50	GLN	N-CA-CB	5.24	117.74	109.94
1	3m	68	MET	CA-C-N	5.24	127.30	120.28
1	3m	68	MET	C-N-CA	5.24	127.30	120.28
1	3p	2	ILE	N-CA-C	5.24	116.78	109.55
1	3q	61	GLY	CA-C-N	5.24	129.84	122.46
1	3q	61	GLY	C-N-CA	5.24	129.84	122.46
1	3r	190	LEU	CA-C-N	5.24	127.16	120.56
1	3r	190	LEU	C-N-CA	5.24	127.16	120.56
1	3u	182	LYS	N-CA-C	5.24	116.99	111.28
1	3z	139	ASN	O-C-N	-5.24	116.57	122.12
1	3A	146	SER	CA-C-O	-5.24	114.99	120.70
1	3C	201	ILE	CA-C-N	5.24	127.30	120.28
1	3C	201	ILE	C-N-CA	5.24	127.30	120.28
1	4k	171	THR	N-CA-CB	5.24	117.91	110.16
1	4p	32	PHE	N-CA-CB	5.24	118.45	110.44
1	4B	206	GLY	N-CA-C	5.24	123.02	112.34
1	4J	120	HIS	CA-CB-CG	5.24	119.03	113.80
1	4L	145	TYR	CA-CB-CG	-5.24	104.48	113.90
1	4U	206	GLY	O-C-N	-5.24	116.53	121.77
1	4V	88	ALA	CA-C-N	5.24	130.09	121.87
1	4V	88	ALA	C-N-CA	5.24	130.09	121.87
1	4Y	184	TRP	CD2-CE2-CZ2	5.24	127.64	122.40
1	53	72	THR	N-CA-C	5.24	116.99	111.28
1	55	112	GLN	CA-C-N	5.24	127.72	120.29
1	55	112	GLN	C-N-CA	5.24	127.72	120.29
1	59	68	MET	CA-C-N	5.24	127.73	120.29
1	59	68	MET	C-N-CA	5.24	127.73	120.29
1	59	112	GLN	CA-C-N	5.24	127.56	120.44
1	59	112	GLN	C-N-CA	5.24	127.56	120.44
1	5b	141	ILE	CA-C-N	5.24	127.63	120.46
1	5b	141	ILE	C-N-CA	5.24	127.63	120.46
1	5d	210	THR	CA-C-O	-5.24	115.43	121.19
1	5m	76	GLU	CA-C-N	5.24	129.58	120.68
1	5m	76	GLU	C-N-CA	5.24	129.58	120.68
1	5r	197	ASP	CA-C-N	5.24	127.61	120.54
1	5r	197	ASP	C-N-CA	5.24	127.61	120.54
1	5u	63	GLN	CA-C-N	5.24	127.72	120.29
1	5u	63	GLN	C-N-CA	5.24	127.72	120.29
1	5D	79	GLU	CA-C-O	5.24	126.10	120.55
1	60	73	ILE	CA-CB-CG1	5.24	119.30	110.40
1	64	18	ARG	NE-CZ-NH2	-5.24	114.49	119.20
1	65	184	TRP	CA-C-O	-5.24	115.00	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	67	107	THR	N-CA-CB	5.24	118.31	110.19
1	6i	168	PHE	CB-CA-C	5.24	119.17	110.90
1	6y	125	PRO	CA-CB-CG	5.24	114.45	104.50
1	6B	100	ARG	O-C-N	-5.24	115.71	122.20
1	6E	121	ASN	O-C-N	-5.24	114.66	121.10
1	6G	67	GLN	CA-CB-CG	5.24	124.57	114.10
1	6H	102	SER	N-CA-C	5.24	117.89	111.82
1	6K	97	ARG	CA-C-O	5.24	127.10	121.55
1	6L	97	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	6M	185	MET	CA-C-O	5.24	125.97	120.42
1	6S	39	MET	N-CA-C	5.24	117.89	111.82
1	6V	24	VAL	N-CA-C	-5.24	105.28	110.62
1	6X	110	THR	CA-C-O	-5.24	115.85	121.45
1	6Y	196	PRO	N-CA-C	5.24	123.26	112.47
1	70	136	LEU	N-CA-C	5.24	116.99	111.28
1	71	229	ARG	CG-CD-NE	-5.24	100.48	112.00
1	78	5	ASN	CA-CB-CG	-5.24	107.36	112.60
1	7a	139	ASN	N-CA-C	5.24	116.67	111.07
1	7e	5	ASN	N-CA-C	-5.24	107.56	114.31
1	7m	144	MET	CA-CB-CG	5.24	124.57	114.10
1	7q	74	ASN	CA-CB-CG	-5.24	107.36	112.60
1	7s	30	LYS	CA-C-O	5.24	124.25	118.65
1	7y	74	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	7B	198	CYS	O-C-N	-5.24	116.68	122.07
1	7E	52	LEU	CA-C-N	5.24	127.30	120.28
1	7E	52	LEU	C-N-CA	5.24	127.30	120.28
1	7H	192	GLN	N-CA-C	5.24	116.67	111.07
1	7P	221	VAL	N-CA-C	5.24	115.96	110.62
1	7R	165	VAL	CB-CA-C	-5.24	105.00	112.22
1	7S	206	GLY	O-C-N	5.24	127.01	121.77
1	80	118	MET	N-CA-C	5.24	116.99	111.28
1	8d	20	LEU	CA-C-N	5.24	127.30	120.28
1	8d	20	LEU	C-N-CA	5.24	127.30	120.28
1	8w	29	GLU	N-CA-C	5.24	119.58	112.04
1	8w	139	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	8D	185	MET	CA-C-O	5.24	126.10	120.55
1	8H	52	LEU	CA-C-O	5.24	126.32	120.82
1	8H	87	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	8Q	87	HIS	CA-CB-CG	5.24	119.03	113.80
1	8U	124	ILE	O-C-N	-5.24	116.10	120.92
1	8U	219	GLN	CA-C-O	5.24	126.56	120.49
1	92	198	CYS	N-CA-CB	5.24	117.91	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9a	34	PRO	N-CA-C	5.24	121.40	113.81
1	9f	184	TRP	CA-C-N	5.24	127.61	120.54
1	9f	184	TRP	C-N-CA	5.24	127.61	120.54
1	9i	58	THR	CA-C-N	5.24	127.35	120.60
1	9i	58	THR	C-N-CA	5.24	127.35	120.60
1	9i	184	TRP	O-C-N	5.24	127.67	122.12
1	9p	77	ALA	CB-CA-C	-5.24	102.10	110.79
1	9p	105	ALA	N-CA-C	5.24	117.89	111.82
1	9s	217	ALA	O-C-N	-5.24	116.58	122.97
1	9F	40	PHE	CA-CB-CG	-5.24	108.56	113.80
1	9F	226	HIS	CB-CG-CD2	-5.24	124.39	131.20
1	9O	21	ASN	CA-C-N	5.24	127.30	120.28
1	9O	21	ASN	C-N-CA	5.24	127.30	120.28
1	a5	114	GLN	O-C-N	-5.24	116.68	122.07
1	ab	12	HIS	CA-CB-CG	5.24	119.04	113.80
1	ad	26	VAL	CA-C-N	5.24	127.86	120.42
1	ad	26	VAL	C-N-CA	5.24	127.86	120.42
1	at	168	PHE	N-CA-C	5.24	116.99	111.28
1	aE	157	PRO	N-CA-CB	5.24	108.75	103.25
1	aE	191	VAL	CB-CA-C	-5.24	105.18	111.88
1	aF	3	VAL	CB-CA-C	5.24	119.91	110.48
1	aI	124	ILE	N-CA-C	5.24	113.70	107.73
1	aM	12	HIS	CA-C-N	5.24	130.37	122.99
1	aM	12	HIS	C-N-CA	5.24	130.37	122.99
1	14	192	GLN	CA-C-O	5.24	125.97	120.42
1	b9	12	HIS	N-CA-CB	-5.24	101.84	111.37
1	17	54	THR	O-C-N	-5.24	116.18	122.15
1	by	57	ASN	CA-C-N	5.24	127.55	120.38
1	by	57	ASN	C-N-CA	5.24	127.55	120.38
1	c0	29	GLU	CA-C-O	-5.24	113.49	119.41
1	c0	71	GLU	N-CA-C	5.24	116.99	111.28
1	1c	138	LEU	N-CA-C	5.24	116.99	111.28
1	cd	187	GLU	N-CA-CB	5.24	117.91	110.16
1	cm	11	VAL	O-C-N	-5.24	117.61	123.26
1	co	200	THR	OG1-CB-CG2	-5.24	98.83	109.30
1	1e	91	ILE	N-CA-C	5.24	114.29	106.85
1	cr	75	GLU	CB-CG-CD	-5.24	103.70	112.60
1	cr	156	GLY	CA-C-O	-5.24	116.12	121.62
1	cL	82	ARG	O-C-N	-5.24	115.23	122.46
1	d8	75	GLU	CA-C-N	5.24	127.30	120.28
1	d8	75	GLU	C-N-CA	5.24	127.30	120.28
1	dl	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dp	146	SER	CA-C-O	-5.24	114.56	119.80
1	dq	9	GLN	CA-CB-CG	-5.24	103.63	114.10
1	ds	53	ASN	CB-CA-C	-5.24	102.10	110.79
1	dt	153	ILE	N-CA-C	5.24	115.84	109.30
1	dy	230	VAL	N-CA-C	5.24	116.72	109.29
1	dV	28	GLU	O-C-N	-5.24	116.23	122.20
1	dW	166	ASP	CA-CB-CG	5.24	117.84	112.60
1	dW	201	ILE	CA-C-N	5.24	127.61	120.54
1	dW	201	ILE	C-N-CA	5.24	127.61	120.54
1	e1	57	ASN	N-CA-C	5.24	119.72	113.23
1	e3	214	MET	CA-C-O	5.24	125.97	120.42
1	1p	169	TYR	N-CA-C	5.24	116.99	111.28
1	el	84	HIS	N-CA-C	5.24	118.35	109.87
1	ep	177	ALA	N-CA-C	5.24	117.88	110.50
1	ew	120	HIS	ND1-CE1-NE2	5.24	113.64	108.40
1	eD	75	GLU	CA-C-N	5.24	128.27	120.31
1	eD	75	GLU	C-N-CA	5.24	128.27	120.31
1	eF	56	LEU	N-CA-CB	5.24	117.82	110.12
1	eZ	14	ALA	O-C-N	-5.24	116.12	122.82
1	eZ	44	SER	N-CA-C	-5.24	105.56	112.94
1	f9	159	GLU	CA-C-N	5.24	125.52	119.92
1	f9	159	GLU	C-N-CA	5.24	125.52	119.92
1	fh	116	GLY	O-C-N	-5.24	115.89	122.70
1	ft	166	ASP	N-CA-C	5.24	116.67	111.07
1	1x	217	ALA	CA-C-N	5.24	129.56	122.07
1	1x	217	ALA	C-N-CA	5.24	129.56	122.07
1	fx	193	ASN	CA-C-O	5.24	125.48	119.35
1	fz	217	ALA	N-CA-C	5.24	117.82	110.23
1	fI	68	MET	N-CA-C	5.24	116.67	111.07
1	fL	23	TRP	CB-CA-C	5.24	119.10	110.88
1	fM	36	VAL	CG1-CB-CG2	-5.24	99.28	110.80
1	fU	96	MET	CA-C-O	5.24	127.03	121.16
1	fV	129	ILE	CA-C-O	5.24	126.39	120.95
1	fW	74	ASN	OD1-CG-ND2	-5.24	117.36	122.60
1	fW	143	ARG	NH1-CZ-NH2	-5.24	112.49	119.30
1	fX	164	TYR	N-CA-C	5.24	119.96	111.37
1	g3	182	LYS	N-CA-C	5.24	116.67	111.07
1	g6	48	THR	N-CA-CB	5.24	115.41	109.49
1	g6	68	MET	CA-C-N	5.24	127.25	120.44
1	g6	68	MET	C-N-CA	5.24	127.25	120.44
1	g6	175	GLU	O-C-N	-5.24	116.92	123.04
1	0	84	HIS	O-C-N	-5.24	115.10	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b	219	GLN	CA-C-O	5.24	128.00	120.51
1	c	51	ASP	CA-CB-CG	5.24	117.83	112.60
1	d	229	ARG	CG-CD-NE	-5.24	100.48	112.00
1	2	6	LEU	N-CA-C	5.24	117.47	110.35
1	F	110	THR	CA-CB-OG1	5.24	117.45	109.60
1	F	167	ARG	NE-CZ-NH2	5.24	123.91	119.20
1	L	215	MET	CA-C-O	5.24	125.97	120.42
1	4	120	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
1	O	142	VAL	CA-C-N	5.24	127.30	120.28
1	O	142	VAL	C-N-CA	5.24	127.30	120.28
1	S	123	PRO	CB-CA-C	-5.24	104.91	111.56
1	5	134	ILE	N-CA-CB	5.24	117.01	110.47
1	8	155	GLN	N-CA-C	5.24	117.76	109.96
1	gd	69	LEU	O-C-N	-5.23	116.68	122.07
1	gq	98	GLU	CB-CA-C	5.23	117.79	109.52
1	gy	166	ASP	CA-CB-CG	5.23	117.83	112.60
1	gB	69	LEU	N-CA-C	5.23	116.67	111.07
1	gB	175	GLU	O-C-N	5.23	128.34	122.22
1	gK	229	ARG	O-C-N	-5.23	117.07	123.30
1	gN	133	TRP	O-C-N	-5.23	115.24	122.46
1	gZ	3	VAL	N-CA-C	5.23	115.39	107.80
1	h2	222	GLY	CA-C-O	5.23	126.06	120.30
1	h5	216	THR	O-C-N	-5.23	115.86	122.19
1	h6	176	GLN	CA-C-O	5.23	125.41	119.18
1	hf	62	HIS	ND1-CG-CD2	5.23	111.33	106.10
1	hr	211	LEU	CA-C-O	5.23	126.10	120.55
1	1K	80	TRP	CE3-CZ3-CH2	-5.23	114.30	121.10
1	hA	9	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	hO	141	ILE	CA-C-N	5.23	127.63	120.46
1	hO	141	ILE	C-N-CA	5.23	127.63	120.46
1	i0	37	ILE	CB-CA-C	-5.23	108.73	113.70
1	ii	12	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	ii	30	LYS	N-CA-CB	-5.23	103.39	110.67
1	iq	229	ARG	CA-C-N	5.23	128.19	120.91
1	iq	229	ARG	C-N-CA	5.23	128.19	120.91
1	1S	191	VAL	N-CA-C	5.23	116.01	110.72
1	j7	5	ASN	O-C-N	-5.23	116.57	122.12
1	je	12	HIS	CB-CA-C	-5.23	101.56	109.99
1	je	79	GLU	N-CA-C	5.23	117.06	111.36
1	jG	131	LYS	CB-CA-C	5.23	119.48	110.79
1	1Y	121	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	k7	199	LYS	CA-C-O	5.23	126.09	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k8	36	VAL	N-CA-CB	5.23	117.66	110.54
1	kl	145	TYR	CB-CA-C	-5.23	101.87	110.72
1	kr	173	ARG	CA-C-N	5.23	127.56	120.44
1	kr	173	ARG	C-N-CA	5.23	127.56	120.44
1	kt	197	ASP	CA-CB-CG	-5.23	107.37	112.60
1	kv	204	ALA	N-CA-CB	-5.23	102.38	110.13
1	kN	137	GLY	O-C-N	5.23	127.31	122.13
1	l2	75	GLU	N-CA-C	5.23	117.73	111.71
1	le	7	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	lf	197	ASP	O-C-N	-5.23	115.24	122.46
1	ll	1	PRO	CA-N-CD	-5.23	104.67	112.00
1	lp	210	THR	O-C-N	-5.23	116.56	122.68
1	lz	55	MET	O-C-N	5.23	127.46	122.07
1	2a	170	LYS	CB-CG-CD	5.23	123.34	111.30
1	2p	180	GLU	N-CA-C	5.23	117.39	111.11
1	2H	50	GLN	CA-C-O	-5.23	114.98	120.63
1	2V	185	MET	CB-CA-C	-5.23	102.10	110.79
1	31	17	PRO	CB-CA-C	5.23	119.34	111.44
1	33	174	ALA	CA-C-O	-5.23	114.19	120.10
1	37	117	TRP	N-CA-C	5.23	116.98	111.28
1	3z	177	ALA	CA-C-N	5.23	128.99	121.50
1	3z	177	ALA	C-N-CA	5.23	128.99	121.50
1	4g	146	SER	CA-C-N	5.23	126.38	119.84
1	4g	146	SER	C-N-CA	5.23	126.38	119.84
1	4P	140	LYS	CA-C-O	-5.23	115.32	120.82
1	52	160	PRO	N-CA-C	5.23	119.42	111.15
1	55	62	HIS	ND1-CG-CD2	5.23	111.33	106.10
1	55	120	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	5f	39	MET	CA-CB-CG	5.23	124.57	114.10
1	5j	21	ASN	N-CA-C	5.23	116.98	111.28
1	5n	54	THR	N-CA-CB	5.23	117.81	110.12
1	5n	151	LEU	N-CA-CB	5.23	118.61	110.44
1	5s	132	ARG	N-CA-C	5.23	116.67	111.07
1	5w	62	HIS	CA-CB-CG	-5.23	108.57	113.80
1	5C	101	GLY	CA-C-O	5.23	125.93	120.80
1	5G	76	GLU	CA-C-N	5.23	127.72	120.29
1	5G	76	GLU	C-N-CA	5.23	127.72	120.29
1	5U	54	THR	N-CA-C	-5.23	105.75	111.82
1	5W	194	ALA	CA-C-O	5.23	127.09	121.44
1	5Y	7	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	61	224	PRO	N-CA-C	5.23	123.25	112.47
1	6f	147	PRO	N-CA-C	-5.23	105.85	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6k	12	HIS	N-CA-CB	5.23	117.59	109.48
1	6E	218	CYS	CA-C-O	5.23	127.99	120.51
1	6U	115	ILE	CA-C-O	-5.23	115.83	121.27
1	6X	88	ALA	N-CA-C	5.23	117.08	110.33
1	7V	163	ASP	CA-C-N	5.23	127.55	120.38
1	7V	163	ASP	C-N-CA	5.23	127.55	120.38
1	85	16	SER	CA-C-N	5.23	124.74	119.19
1	85	16	SER	C-N-CA	5.23	124.74	119.19
1	88	191	VAL	CA-C-N	5.23	127.72	120.29
1	88	191	VAL	C-N-CA	5.23	127.72	120.29
1	8p	183	ASN	CA-C-O	-5.23	115.00	120.55
1	8K	50	GLN	CG-CD-NE2	-5.23	108.55	116.40
1	8R	202	LEU	CA-C-N	5.23	127.72	120.29
1	8R	202	LEU	C-N-CA	5.23	127.72	120.29
1	8T	80	TRP	CA-C-O	5.23	126.09	120.70
1	96	117	TRP	CE2-CD2-CE3	5.23	124.03	118.80
1	9f	113	GLU	CA-C-O	-5.23	115.32	120.82
1	9m	208	ALA	O-C-N	5.23	128.71	122.27
1	9r	41	SER	CA-C-N	5.23	127.61	120.54
1	9r	41	SER	C-N-CA	5.23	127.61	120.54
1	9w	23	TRP	CG-CD2-CE3	5.23	139.13	133.90
1	9w	211	LEU	N-CA-C	5.23	117.66	111.33
1	9z	65	ALA	CA-C-N	5.23	127.24	120.44
1	9z	65	ALA	C-N-CA	5.23	127.24	120.44
1	Y	194	ALA	N-CA-C	5.23	117.05	110.24
1	9U	27	VAL	CA-C-O	-5.23	115.62	121.17
1	a3	70	LYS	N-CA-C	5.23	117.89	111.82
1	ac	155	GLN	CA-C-N	5.23	130.09	121.87
1	ac	155	GLN	C-N-CA	5.23	130.09	121.87
1	at	18	ARG	CB-CA-C	-5.23	102.66	110.88
1	12	198	CYS	O-C-N	-5.23	116.68	122.07
1	aF	163	ASP	O-C-N	-5.23	116.57	122.12
1	bg	9	GLN	CB-CA-C	5.23	118.44	109.80
1	bE	181	VAL	CA-C-N	5.23	127.72	120.29
1	bE	181	VAL	C-N-CA	5.23	127.72	120.29
1	bV	24	VAL	N-CA-CB	5.23	116.67	110.55
1	bW	185	MET	N-CA-C	5.23	117.66	111.33
1	cc	22	ALA	CA-C-N	5.23	127.24	120.44
1	cc	22	ALA	C-N-CA	5.23	127.24	120.44
1	ck	228	ALA	O-C-N	-5.23	116.37	122.81
1	cA	4	GLN	N-CA-CB	5.23	120.43	112.47
1	cC	80	TRP	CB-CG-CD2	5.23	134.13	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cW	54	THR	N-CA-C	5.23	116.67	111.07
1	cW	71	GLU	N-CA-CB	-5.23	102.41	110.16
1	d5	141	ILE	CA-C-O	-5.23	115.62	121.17
1	d6	29	GLU	CB-CA-C	5.23	119.17	110.90
1	de	62	HIS	CB-CG-CD2	-5.23	124.40	131.20
1	di	228	ALA	CA-C-N	5.23	130.08	121.39
1	di	228	ALA	C-N-CA	5.23	130.08	121.39
1	dj	100	ARG	N-CA-CB	5.23	118.38	110.42
1	1k	69	LEU	O-C-N	-5.23	116.57	122.12
1	dG	135	ILE	CA-C-N	5.23	127.29	120.28
1	dG	135	ILE	C-N-CA	5.23	127.29	120.28
1	1m	38	PRO	CA-C-O	-5.23	111.65	119.34
1	ee	21	ASN	CA-C-N	5.23	128.06	120.79
1	ee	21	ASN	C-N-CA	5.23	128.06	120.79
1	ej	110	THR	CA-C-N	5.23	127.82	120.28
1	ej	110	THR	C-N-CA	5.23	127.82	120.28
1	eR	124	ILE	CA-CB-CG1	5.23	119.30	110.40
1	fJ	162	ARG	CA-C-O	-5.23	115.33	120.82
1	g2	186	THR	CA-CB-OG1	5.23	117.45	109.60
1	1	114	GLN	N-CA-C	5.23	116.98	111.28
1	m	215	MET	N-CA-C	5.23	117.89	111.82
1	v	26	VAL	O-C-N	-5.23	116.44	121.83
1	R	102	SER	N-CA-C	5.23	116.98	111.28
1	T	149	SER	CA-C-O	-5.23	113.84	120.28
1	9	68	MET	N-CA-C	5.23	116.67	111.07
1	gd	126	VAL	CA-C-N	5.23	125.76	120.00
1	gd	126	VAL	C-N-CA	5.23	125.76	120.00
1	gh	99	PRO	O-C-N	5.23	129.71	122.64
1	gn	176	GLN	CA-C-N	5.23	129.11	121.31
1	gn	176	GLN	C-N-CA	5.23	129.11	121.31
1	gr	167	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	gt	67	GLN	CB-CA-C	5.23	119.48	110.79
1	gz	107	THR	CA-CB-CG2	-5.23	101.60	110.50
1	gF	36	VAL	CA-C-O	-5.23	115.31	120.85
1	gI	152	ASP	CA-C-N	5.23	129.02	122.48
1	gI	152	ASP	C-N-CA	5.23	129.02	122.48
1	gI	216	THR	N-CA-C	-5.23	106.40	112.89
1	gO	160	PRO	CA-C-N	5.23	127.56	120.44
1	gO	160	PRO	C-N-CA	5.23	127.56	120.44
1	gU	110	THR	CA-CB-CG2	-5.23	101.60	110.50
1	gW	204	ALA	CB-CA-C	5.23	120.93	109.99
1	h7	70	LYS	N-CA-C	5.23	116.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	he	15	ILE	CB-CA-C	5.23	120.12	111.59
1	hm	51	ASP	N-CA-C	5.23	117.06	111.36
1	ho	70	LYS	N-CA-CB	5.23	117.81	110.12
1	ho	208	ALA	O-C-N	-5.23	114.97	122.04
1	hz	134	ILE	CA-C-O	-5.23	115.51	120.95
1	hG	18	ARG	NH1-CZ-NH2	5.23	126.10	119.30
1	1L	48	THR	CA-C-O	-5.23	115.48	120.97
1	hP	117	TRP	CB-CG-CD1	5.23	134.75	126.90
1	i2	87	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	id	142	VAL	CA-C-N	5.23	127.72	120.29
1	id	142	VAL	C-N-CA	5.23	127.72	120.29
1	ii	164	TYR	CA-C-N	5.23	127.35	120.60
1	ii	164	TYR	C-N-CA	5.23	127.35	120.60
1	iv	152	ASP	N-CA-C	-5.23	107.42	112.97
1	ix	210	THR	O-C-N	-5.23	116.88	122.85
1	iP	98	GLU	CA-C-N	5.23	124.99	119.76
1	iP	98	GLU	C-N-CA	5.23	124.99	119.76
1	iP	120	HIS	N-CA-C	5.23	117.47	110.35
1	iQ	205	LEU	N-CA-C	5.23	116.67	111.07
1	iT	85	PRO	CA-C-O	-5.23	115.62	121.32
1	j4	124	ILE	N-CA-C	-5.23	102.80	107.56
1	j4	219	GLN	CA-C-N	5.23	125.79	119.98
1	j4	219	GLN	C-N-CA	5.23	125.79	119.98
1	j6	175	GLU	CA-C-N	5.23	130.73	122.78
1	j6	175	GLU	C-N-CA	5.23	130.73	122.78
1	jb	62	HIS	CB-CG-CD2	-5.23	124.40	131.20
1	jg	8	GLY	O-C-N	5.23	127.68	122.92
1	jh	208	ALA	CA-C-N	5.23	128.14	120.71
1	jh	208	ALA	C-N-CA	5.23	128.14	120.71
1	jr	184	TRP	N-CA-C	5.23	116.98	111.28
1	jr	216	THR	N-CA-C	-5.23	106.48	112.92
1	jt	151	LEU	CA-C-O	5.23	126.10	120.55
1	jB	7	GLN	CG-CD-NE2	5.23	124.25	116.40
1	jB	67	GLN	CA-C-N	5.23	128.26	120.31
1	jB	67	GLN	C-N-CA	5.23	128.26	120.31
1	jB	174	ALA	CA-C-O	5.23	125.99	119.97
1	jI	152	ASP	N-CA-CB	-5.23	101.43	111.53
1	1Y	14	ALA	O-C-N	-5.23	116.69	122.86
1	jW	131	LYS	CA-C-N	5.23	127.81	120.28
1	jW	131	LYS	C-N-CA	5.23	127.81	120.28
1	kf	12	HIS	CA-C-O	5.23	126.01	120.36
1	ki	160	PRO	CA-C-O	-5.23	115.62	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	24	87	HIS	N-CA-C	5.23	117.04	110.24
1	kX	16	SER	O-C-N	-5.23	115.57	121.43
1	kY	58	THR	N-CA-C	5.23	118.92	112.54
1	l1	37	ILE	CA-C-O	-5.23	115.19	118.69
1	ld	39	MET	CA-C-N	5.23	127.24	120.44
1	ld	39	MET	C-N-CA	5.23	127.24	120.44
1	ld	202	LEU	CA-C-N	5.23	129.46	120.72
1	ld	202	LEU	C-N-CA	5.23	129.46	120.72
1	lf	151	LEU	O-C-N	-5.23	116.65	122.09
1	lg	54	THR	N-CA-C	5.23	117.39	111.11
1	27	206	GLY	CA-C-N	5.23	126.38	119.84
1	27	206	GLY	C-N-CA	5.23	126.38	119.84
1	lj	151	LEU	CA-C-O	5.23	125.41	119.18
1	lj	184	TRP	N-CA-CB	5.23	117.66	110.07
1	ln	211	LEU	N-CA-CB	-5.23	102.42	110.01
1	lE	82	ARG	CA-C-N	5.23	127.56	120.65
1	lE	82	ARG	C-N-CA	5.23	127.56	120.65
1	2d	44	SER	O-C-N	-5.23	117.00	122.18
1	2g	163	ASP	CA-CB-CG	5.23	117.83	112.60
1	2h	62	HIS	CG-CD2-NE2	-5.23	101.97	107.20
1	2r	132	ARG	N-CA-C	5.23	117.66	111.33
1	2z	84	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	2I	44	SER	CB-CA-C	-5.23	100.88	109.99
1	2L	104	ILE	CA-C-N	5.23	127.29	120.28
1	2L	104	ILE	C-N-CA	5.23	127.29	120.28
1	2L	119	THR	CA-C-N	5.23	131.53	121.54
1	2L	119	THR	C-N-CA	5.23	131.53	121.54
1	2N	50	GLN	O-C-N	5.23	127.46	122.07
1	2V	91	ILE	CA-CB-CG1	5.23	119.29	110.40
1	31	202	LEU	CA-C-O	5.23	125.97	119.79
1	3g	121	ASN	CA-CB-CG	-5.23	107.37	112.60
1	3m	71	GLU	CA-C-N	5.23	127.24	120.44
1	3m	71	GLU	C-N-CA	5.23	127.24	120.44
1	3w	31	ALA	N-CA-C	5.23	121.94	110.80
1	3y	185	MET	CA-C-O	-5.23	115.33	120.82
1	3A	140	LYS	N-CA-C	5.23	116.98	111.28
1	3B	68	MET	CG-SD-CE	-5.23	89.39	100.90
1	3Q	87	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	3X	200	THR	O-C-N	-5.23	116.19	122.15
1	41	160	PRO	CB-CA-C	-5.23	102.93	111.56
1	46	72	THR	CA-C-N	5.23	127.15	120.56
1	46	72	THR	C-N-CA	5.23	127.15	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4g	173	ARG	CA-C-O	-5.23	115.00	120.55
1	4o	57	ASN	CA-CB-CG	-5.23	107.37	112.60
1	4s	92	GLU	N-CA-C	5.23	116.01	109.57
1	4E	21	ASN	CA-CB-CG	5.23	117.83	112.60
1	4M	26	VAL	CA-C-N	5.23	127.63	120.46
1	4M	26	VAL	C-N-CA	5.23	127.63	120.46
1	4Y	9	GLN	CG-CD-NE2	5.23	124.25	116.40
1	4Z	218	CYS	N-CA-CB	5.23	119.33	110.49
1	57	33	SER	CA-C-N	5.23	124.74	119.19
1	57	33	SER	C-N-CA	5.23	124.74	119.19
1	59	184	TRP	CB-CG-CD1	-5.23	119.05	126.90
1	5d	49	PRO	N-CA-C	5.23	120.80	113.53
1	5e	135	ILE	CA-C-N	5.23	127.24	120.44
1	5e	135	ILE	C-N-CA	5.23	127.24	120.44
1	5f	161	PHE	CA-C-O	5.23	127.99	120.51
1	5h	115	ILE	O-C-N	-5.23	116.76	121.89
1	5s	201	ILE	CA-C-O	-5.23	115.62	121.17
1	5z	32	PHE	CB-CG-CD2	5.23	129.59	120.70
1	5B	114	GLN	CB-CA-C	5.23	119.18	110.81
1	5F	164	TYR	N-CA-C	5.23	116.67	111.07
1	5N	118	MET	O-C-N	-5.23	116.10	122.22
1	5W	123	PRO	O-C-N	-5.23	116.70	123.03
1	62	229	ARG	N-CA-C	5.23	118.22	110.48
1	67	190	LEU	O-C-N	-5.23	116.57	122.12
1	68	20	LEU	N-CA-C	5.23	116.98	111.28
1	6b	33	SER	N-CA-C	-5.23	103.41	108.07
1	6d	13	GLN	OE1-CD-NE2	5.23	127.83	122.60
1	6f	74	ASN	CA-C-N	5.23	127.56	120.44
1	6f	74	ASN	C-N-CA	5.23	127.56	120.44
1	6f	182	LYS	CA-CB-CG	-5.23	103.64	114.10
1	6m	13	GLN	N-CA-CB	5.23	120.40	111.66
1	6q	167	ARG	CA-C-O	5.23	126.01	120.10
1	6v	35	GLU	O-C-N	-5.23	116.23	122.20
1	6A	108	THR	CA-C-N	5.23	128.90	121.42
1	6A	108	THR	C-N-CA	5.23	128.90	121.42
1	6O	132	ARG	CA-C-O	-5.23	114.98	120.63
1	7f	23	TRP	CA-C-O	5.23	126.50	121.00
1	7l	98	GLU	CA-C-N	5.23	125.15	119.76
1	7l	98	GLU	C-N-CA	5.23	125.15	119.76
1	7n	76	GLU	CA-C-N	5.23	127.55	120.38
1	7n	76	GLU	C-N-CA	5.23	127.55	120.38
1	7r	95	GLN	N-CA-CB	-5.23	103.20	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7r	105	ALA	CA-C-N	5.23	129.88	120.77
1	7r	105	ALA	C-N-CA	5.23	129.88	120.77
1	7y	166	ASP	CA-C-N	5.23	127.72	120.29
1	7y	166	ASP	C-N-CA	5.23	127.72	120.29
1	7J	205	LEU	CA-C-N	5.23	130.09	121.87
1	7J	205	LEU	C-N-CA	5.23	130.09	121.87
1	7U	67	GLN	CG-CD-OE1	5.23	131.27	120.80
1	7W	22	ALA	N-CA-C	5.23	116.98	111.28
1	83	33	SER	N-CA-C	5.23	116.29	109.64
1	8f	21	ASN	CA-CB-CG	-5.23	107.37	112.60
1	8j	205	LEU	N-CA-CB	-5.23	102.17	110.28
1	8m	170	LYS	CA-C-O	5.23	125.82	119.38
1	8A	53	ASN	CA-CB-CG	5.23	117.83	112.60
1	8D	186	THR	CA-CB-OG1	5.23	117.45	109.60
1	8H	62	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	8M	49	PRO	CA-C-N	5.23	127.55	120.38
1	8M	49	PRO	C-N-CA	5.23	127.55	120.38
1	8X	48	THR	CA-C-N	5.23	126.38	119.84
1	8X	48	THR	C-N-CA	5.23	126.38	119.84
1	8Z	165	VAL	N-CA-CB	5.23	118.43	110.58
1	96	123	PRO	N-CA-C	5.23	119.53	111.21
1	99	164	TYR	CB-CG-CD2	-5.23	112.95	120.80
1	9e	96	MET	N-CA-C	5.23	117.44	110.53
1	9h	25	LYS	N-CA-C	5.23	116.98	111.28
1	9h	231	LEU	N-CA-CB	-5.23	101.60	110.50
1	9q	33	SER	CA-C-N	5.23	126.38	119.84
1	9q	33	SER	C-N-CA	5.23	126.38	119.84
1	9A	6	LEU	O-C-N	5.23	129.55	122.59
1	9D	84	HIS	CB-CA-C	-5.23	104.36	110.17
1	9H	145	TYR	CA-C-O	5.23	126.31	120.82
1	9P	212	GLU	N-CA-C	5.23	117.39	111.11
1	9T	9	GLN	CA-C-O	5.23	127.51	121.28
1	9Y	157	PRO	CB-CA-C	-5.23	102.93	111.56
1	a8	21	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	a9	167	ARG	N-CA-C	5.23	117.39	111.11
1	ao	14	ALA	O-C-N	-5.23	116.63	122.75
1	ao	145	TYR	O-C-N	-5.23	116.57	122.12
1	ao	190	LEU	N-CA-C	5.23	116.67	111.07
1	aq	92	GLU	CA-C-O	-5.23	114.78	120.69
1	ay	199	LYS	O-C-N	-5.23	116.57	122.12
1	aA	132	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	aD	80	TRP	O-C-N	-5.23	116.65	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aK	166	ASP	CA-C-O	5.23	126.50	120.90
1	b1	36	VAL	N-CA-CB	5.23	117.66	110.54
1	b2	41	SER	CA-C-O	-5.23	114.19	120.10
1	18	30	LYS	N-CA-C	-5.23	106.74	113.23
1	bu	33	SER	CB-CA-C	5.23	116.98	108.87
1	bw	134	ILE	O-C-N	-5.23	116.44	121.83
1	bF	27	VAL	CA-CB-CG1	5.23	119.29	110.40
1	bG	153	ILE	N-CA-C	5.23	116.33	109.58
1	bH	87	HIS	N-CA-C	5.23	117.26	108.73
1	bR	229	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	bU	165	VAL	CB-CA-C	5.23	118.89	112.04
1	bX	50	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	bZ	65	ALA	N-CA-C	5.23	117.89	111.82
1	c4	206	GLY	CA-C-N	5.23	124.84	119.56
1	c4	206	GLY	C-N-CA	5.23	124.84	119.56
1	c7	192	GLN	CB-CG-CD	-5.23	103.71	112.60
1	cg	86	VAL	N-CA-C	5.23	115.75	108.84
1	cC	146	SER	O-C-N	-5.23	115.57	121.43
1	cF	118	MET	O-C-N	-5.23	116.10	122.22
1	cI	197	ASP	O-C-N	5.23	127.47	122.03
1	cK	47	ALA	N-CA-CB	5.23	117.73	110.04
1	cL	69	LEU	CA-C-N	5.23	127.55	120.38
1	cL	69	LEU	C-N-CA	5.23	127.55	120.38
1	cW	140	LYS	N-CA-C	5.23	117.06	111.36
1	cY	103	ASP	CA-C-O	5.23	126.05	120.24
1	d2	133	TRP	CA-C-N	5.23	127.35	120.60
1	d2	133	TRP	C-N-CA	5.23	127.35	120.60
1	d3	197	ASP	CA-C-N	5.23	127.56	120.44
1	d3	197	ASP	C-N-CA	5.23	127.56	120.44
1	de	59	VAL	N-CA-C	5.23	116.33	109.21
1	di	3	VAL	O-C-N	-5.23	117.69	123.18
1	di	23	TRP	O-C-N	-5.23	116.68	122.07
1	di	28	GLU	CB-CG-CD	5.23	121.50	112.60
1	dk	131	LYS	O-C-N	-5.23	116.57	122.12
1	dl	51	ASP	CA-C-O	5.23	125.97	120.42
1	dl	175	GLU	N-CA-C	5.23	117.06	111.36
1	do	47	ALA	N-CA-C	5.23	118.15	109.46
1	dF	45	GLU	CA-C-N	5.23	131.67	121.41
1	dF	45	GLU	C-N-CA	5.23	131.67	121.41
1	dF	215	MET	CA-C-N	5.23	127.29	120.28
1	dF	215	MET	C-N-CA	5.23	127.29	120.28
1	1m	132	ARG	CA-C-O	-5.23	115.00	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dN	16	SER	O-C-N	-5.23	114.52	121.64
1	dT	91	ILE	N-CA-C	5.23	115.96	110.62
1	dV	208	ALA	CA-C-N	5.23	131.53	121.54
1	dV	208	ALA	C-N-CA	5.23	131.53	121.54
1	1o	4	GLN	N-CA-C	5.23	117.82	110.23
1	e2	113	GLU	O-C-N	-5.23	116.57	122.12
1	e8	230	VAL	CA-CB-CG1	5.23	119.29	110.40
1	ej	27	VAL	CA-C-N	5.23	127.29	120.28
1	ej	27	VAL	C-N-CA	5.23	127.29	120.28
1	1q	50	GLN	CG-CD-OE1	5.23	131.26	120.80
1	es	86	VAL	CA-C-N	5.23	128.14	120.71
1	es	86	VAL	C-N-CA	5.23	128.14	120.71
1	1r	188	THR	CA-C-O	-5.23	113.15	119.27
1	eV	127	GLY	N-CA-C	-5.23	106.07	112.77
1	eX	141	ILE	CA-C-O	5.23	126.72	121.17
1	eY	166	ASP	CA-CB-CG	5.23	117.83	112.60
1	eY	176	GLN	N-CA-C	5.23	119.36	112.92
1	eZ	207	PRO	N-CA-C	5.23	119.79	111.26
1	f8	193	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	fc	55	MET	O-C-N	-5.23	115.83	122.27
1	fk	97	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	fo	111	LEU	O-C-N	-5.23	115.32	122.33
1	fu	131	LYS	N-CA-C	5.23	121.95	110.80
1	fC	134	ILE	CA-C-N	5.23	127.91	120.53
1	fC	134	ILE	C-N-CA	5.23	127.91	120.53
1	1y	82	ARG	CA-C-N	5.23	127.29	120.28
1	1y	82	ARG	C-N-CA	5.23	127.29	120.28
1	fJ	187	GLU	CB-CA-C	-5.23	102.66	110.88
1	1z	105	ALA	O-C-N	-5.23	115.64	122.39
1	g1	168	PHE	CB-CA-C	5.23	119.18	110.81
1	a	51	ASP	CA-C-N	5.23	127.72	120.29
1	a	51	ASP	C-N-CA	5.23	127.72	120.29
1	h	37	ILE	CB-CA-C	-5.23	107.15	114.00
1	v	225	GLY	CA-C-N	5.23	129.99	122.35
1	v	225	GLY	C-N-CA	5.23	129.99	122.35
1	C	7	GLN	O-C-N	-5.23	117.20	123.27
1	4	98	GLU	O-C-N	5.23	125.55	121.47
1	Q	39	MET	CA-C-N	5.23	127.60	120.54
1	Q	39	MET	C-N-CA	5.23	127.60	120.54
1	U	11	VAL	O-C-N	-5.23	117.40	123.00
1	U	139	ASN	CA-C-N	5.23	127.56	120.44
1	U	139	ASN	C-N-CA	5.23	127.56	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9	142	VAL	N-CA-CB	5.23	117.66	110.54
1	ga	226	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	gc	7	GLN	N-CA-CB	-5.23	102.92	110.56
1	gz	30	LYS	CA-CB-CG	5.23	124.56	114.10
1	gD	63	GLN	CA-C-N	5.23	127.29	120.28
1	gD	63	GLN	C-N-CA	5.23	127.29	120.28
1	gE	82	ARG	CD-NE-CZ	-5.23	117.08	124.40
1	gG	98	GLU	CA-C-N	5.23	126.38	119.84
1	gG	98	GLU	C-N-CA	5.23	126.38	119.84
1	gK	128	GLU	CA-CB-CG	5.23	124.56	114.10
1	gQ	125	PRO	CA-C-O	-5.23	115.85	123.07
1	gU	84	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	gY	174	ALA	CB-CA-C	-5.23	101.33	110.17
1	h2	194	ALA	CA-C-O	-5.23	115.80	121.87
1	h5	41	SER	CA-C-N	5.23	127.29	120.28
1	h5	41	SER	C-N-CA	5.23	127.29	120.28
1	he	114	GLN	O-C-N	5.23	127.46	122.07
1	hg	113	GLU	N-CA-C	5.23	117.39	111.11
1	hn	126	VAL	N-CA-C	5.23	120.22	109.34
1	hu	134	ILE	CA-C-O	-5.23	115.51	120.95
1	hu	164	TYR	CB-CA-C	5.23	119.18	110.81
1	hz	185	MET	CA-C-N	5.23	127.24	120.44
1	hz	185	MET	C-N-CA	5.23	127.24	120.44
1	hA	67	GLN	N-CA-C	-5.23	105.49	111.14
1	hF	42	ALA	N-CA-C	5.23	116.98	111.28
1	hG	92	GLU	N-CA-C	5.23	121.37	109.81
1	hM	7	GLN	N-CA-C	5.23	117.28	110.53
1	hV	230	VAL	N-CA-C	5.23	116.32	109.21
1	i0	78	ALA	O-C-N	5.23	127.46	122.07
1	i1	16	SER	CA-C-N	5.23	126.38	119.84
1	i1	16	SER	C-N-CA	5.23	126.38	119.84
1	i6	33	SER	O-C-N	-5.23	115.30	121.32
1	1O	173	ARG	CA-C-N	5.23	127.55	120.65
1	1O	173	ARG	C-N-CA	5.23	127.55	120.65
1	ig	179	GLN	CA-C-O	5.23	126.01	120.10
1	it	219	GLN	N-CA-C	-5.23	107.03	113.41
1	iu	36	VAL	CA-C-O	5.23	124.22	119.20
1	iv	208	ALA	O-C-N	-5.23	116.10	122.22
1	iK	209	ALA	CA-C-N	5.23	128.51	120.82
1	iK	209	ALA	C-N-CA	5.23	128.51	120.82
1	j0	229	ARG	CB-CG-CD	5.23	123.33	111.30
1	j1	194	ALA	O-C-N	-5.23	116.22	122.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	je	163	ASP	CA-C-N	5.23	127.24	120.44
1	je	163	ASP	C-N-CA	5.23	127.24	120.44
1	jf	159	GLU	O-C-N	-5.23	116.06	121.60
1	jk	102	SER	CA-C-N	5.23	127.24	120.44
1	jk	102	SER	C-N-CA	5.23	127.24	120.44
1	jl	186	THR	N-CA-CB	5.23	117.59	110.01
1	jt	141	ILE	CA-C-O	5.23	126.71	121.17
1	1W	133	TRP	CA-C-N	5.23	127.15	120.56
1	1W	133	TRP	C-N-CA	5.23	127.15	120.56
1	jO	197	ASP	CA-C-O	5.23	126.82	121.07
1	jQ	144	MET	CG-SD-CE	-5.23	89.39	100.90
1	jR	86	VAL	CA-CB-CG2	-5.23	101.51	110.40
1	jT	84	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	jU	167	ARG	N-CA-C	5.23	116.98	111.28
1	k1	39	MET	CA-C-N	5.23	127.24	120.44
1	k1	39	MET	C-N-CA	5.23	127.24	120.44
1	kh	148	THR	N-CA-CB	5.23	119.47	110.68
1	kn	150	ILE	CB-CA-C	5.23	119.20	112.14
1	kr	163	ASP	N-CA-CB	-5.23	102.43	110.01
1	kN	221	VAL	CA-C-N	5.23	129.38	120.91
1	kN	221	VAL	C-N-CA	5.23	129.38	120.91
1	kS	183	ASN	CA-C-N	5.23	127.72	120.29
1	kS	183	ASN	C-N-CA	5.23	127.72	120.29
1	l0	73	ILE	CA-C-O	-5.23	114.82	120.47
1	27	218	CYS	CA-C-N	5.23	128.26	120.31
1	27	218	CYS	C-N-CA	5.23	128.26	120.31
1	27	219	GLN	CB-CG-CD	-5.23	103.71	112.60
1	lj	98	GLU	N-CA-C	5.23	116.24	109.65
1	29	192	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	lE	175	GLU	N-CA-C	5.23	117.46	110.35
1	lG	149	SER	CA-C-O	-5.23	114.68	120.38
1	lL	25	LYS	O-C-N	-5.23	115.84	122.27
1	lL	183	ASN	CA-C-O	-5.23	114.88	120.42
1	lO	133	TRP	N-CA-C	5.23	116.98	111.28
1	lQ	52	LEU	CA-C-O	-5.23	115.33	120.82
1	lR	155	GLN	N-CA-CB	-5.23	102.49	110.65
1	2y	32	PHE	CB-CA-C	5.23	118.26	109.89
1	2B	118	MET	CA-C-O	5.23	125.80	119.11
1	2E	74	ASN	CA-C-O	-5.23	114.19	120.10
1	2E	230	VAL	CA-C-O	5.23	127.20	121.13
1	2J	14	ALA	N-CA-C	5.23	121.94	110.80
1	2K	24	VAL	CA-C-N	5.23	127.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2K	24	VAL	C-N-CA	5.23	127.29	120.28
1	2M	117	TRP	O-C-N	-5.23	116.58	122.12
1	2R	150	ILE	CA-CB-CG2	5.23	119.39	110.50
1	31	154	ARG	CA-C-O	-5.23	115.34	121.46
1	31	157	PRO	N-CA-C	-5.23	107.21	114.27
1	35	162	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	3c	211	LEU	CA-C-O	5.23	126.09	120.55
1	3g	131	LYS	CA-C-N	5.23	127.29	120.28
1	3g	131	LYS	C-N-CA	5.23	127.29	120.28
1	3n	10	MET	O-C-N	-5.23	117.20	123.27
1	3n	29	GLU	N-CA-CB	5.23	117.90	110.16
1	3o	68	MET	CA-C-O	5.23	126.09	120.55
1	3r	6	LEU	CA-C-N	5.23	128.26	120.31
1	3r	6	LEU	C-N-CA	5.23	128.26	120.31
1	3B	144	MET	CA-C-O	5.23	126.05	120.24
1	3I	98	GLU	CA-C-O	-5.23	115.80	120.19
1	3N	142	VAL	CA-C-O	5.23	126.71	121.17
1	3V	105	ALA	CB-CA-C	5.23	119.57	110.94
1	44	155	GLN	CG-CD-OE1	5.23	131.26	120.80
1	48	151	LEU	O-C-N	-5.23	115.24	122.46
1	4o	13	GLN	O-C-N	-5.23	117.29	123.25
1	4r	203	LYS	CA-C-N	5.23	127.55	120.44
1	4r	203	LYS	C-N-CA	5.23	127.55	120.44
1	4F	25	LYS	CA-C-O	-5.23	115.01	120.55
1	4H	143	ARG	N-CA-C	5.23	116.79	111.14
1	4K	23	TRP	CE2-CD2-CE3	5.23	124.03	118.80
1	56	166	ASP	O-C-N	-5.23	116.68	122.07
1	58	135	ILE	O-C-N	-5.23	115.89	121.80
1	5N	131	LYS	CA-C-N	5.23	127.81	120.28
1	5N	131	LYS	C-N-CA	5.23	127.81	120.28
1	5Q	167	ARG	NH1-CZ-NH2	5.23	126.10	119.30
1	5T	91	ILE	CA-C-O	-5.23	115.58	121.75
1	67	113	GLU	CA-C-O	5.23	126.31	120.82
1	6a	84	HIS	CA-C-N	5.23	124.55	118.85
1	6a	84	HIS	C-N-CA	5.23	124.55	118.85
1	6j	74	ASN	O-C-N	-5.23	116.58	122.12
1	6n	19	THR	O-C-N	-5.23	116.58	122.12
1	6r	148	THR	CA-C-N	5.23	128.30	120.87
1	6r	148	THR	C-N-CA	5.23	128.30	120.87
1	6F	158	LYS	CB-CA-C	-5.23	101.38	109.80
1	6Q	74	ASN	CA-C-N	5.23	127.72	120.29
1	6Q	74	ASN	C-N-CA	5.23	127.72	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	96	MET	CA-C-N	5.23	128.14	120.71
1	6X	96	MET	C-N-CA	5.23	128.14	120.71
1	6Z	218	CYS	N-CA-C	5.23	119.04	111.56
1	73	175	GLU	CA-C-N	5.23	131.79	122.06
1	73	175	GLU	C-N-CA	5.23	131.79	122.06
1	7e	137	GLY	CA-C-N	5.23	127.29	120.28
1	7e	137	GLY	C-N-CA	5.23	127.29	120.28
1	7g	82	ARG	N-CA-CB	5.23	117.59	110.01
1	7D	42	ALA	CA-C-O	5.23	126.31	120.82
1	7K	114	GLN	CA-C-N	5.23	127.62	120.46
1	7K	114	GLN	C-N-CA	5.23	127.62	120.46
1	7V	95	GLN	CG-CD-NE2	-5.23	108.56	116.40
1	86	104	ILE	CA-CB-CG1	-5.23	101.51	110.40
1	8d	2	ILE	N-CA-CB	5.23	116.42	110.72
1	8d	205	LEU	CA-C-N	5.23	130.08	121.87
1	8d	205	LEU	C-N-CA	5.23	130.08	121.87
1	8s	139	ASN	CA-CB-CG	5.23	117.83	112.60
1	8B	33	SER	CB-CA-C	5.23	117.14	110.76
1	8D	200	THR	N-CA-C	-5.23	105.47	111.07
1	8H	81	ASP	CA-C-O	5.23	126.09	120.55
1	8K	50	GLN	CG-CD-OE1	5.23	131.26	120.80
1	8L	175	GLU	CA-C-O	5.23	126.65	120.69
1	8U	198	CYS	N-CA-CB	5.23	117.59	110.01
1	95	74	ASN	CA-CB-CG	5.23	117.83	112.60
1	9e	18	ARG	CA-C-N	5.23	128.26	120.31
1	9e	18	ARG	C-N-CA	5.23	128.26	120.31
1	9l	110	THR	O-C-N	-5.23	116.69	122.86
1	9r	12	HIS	CB-CG-CD2	-5.23	124.40	131.20
1	9v	84	HIS	CA-C-O	-5.23	114.36	119.69
1	9v	124	ILE	CB-CA-C	-5.23	106.11	111.08
1	9D	120	HIS	CA-C-O	5.23	127.99	120.51
1	9K	18	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	9S	10	MET	O-C-N	-5.23	115.63	122.59
1	a7	155	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	aa	90	PRO	N-CA-C	5.23	119.43	111.11
1	aa	159	GLU	CA-C-N	5.23	125.48	119.83
1	aa	159	GLU	C-N-CA	5.23	125.48	119.83
1	ai	217	ALA	CA-C-O	-5.23	115.77	121.89
1	ao	19	THR	CA-C-N	5.23	127.29	120.28
1	ao	19	THR	C-N-CA	5.23	127.29	120.28
1	au	26	VAL	N-CA-C	5.23	115.45	110.53
1	aA	167	ARG	CA-C-N	5.23	127.55	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	167	ARG	C-N-CA	5.23	127.55	120.65
1	aK	189	LEU	CA-C-O	5.23	125.96	119.79
1	b1	103	ASP	CA-CB-CG	-5.23	107.37	112.60
1	b5	78	ALA	O-C-N	-5.23	116.68	122.07
1	b5	152	ASP	CA-CB-CG	-5.23	107.37	112.60
1	18	120	HIS	O-C-N	-5.23	116.51	122.68
1	18	172	LEU	CA-C-O	5.23	126.09	120.55
1	bu	92	GLU	N-CA-C	5.23	117.19	109.50
1	bv	161	PHE	CA-CB-CG	-5.23	108.57	113.80
1	by	17	PRO	N-CA-C	-5.23	106.72	113.57
1	bI	157	PRO	CA-C-O	-5.23	111.60	119.55
1	bL	74	ASN	N-CA-CB	5.23	117.90	110.16
1	bN	40	PHE	CA-C-N	5.23	127.29	120.28
1	bN	40	PHE	C-N-CA	5.23	127.29	120.28
1	bQ	84	HIS	CB-CG-CD2	-5.23	124.40	131.20
1	bQ	124	ILE	O-C-N	-5.23	117.02	121.57
1	bR	85	PRO	N-CA-C	5.23	123.25	112.47
1	bU	183	ASN	CB-CA-C	-5.23	101.96	110.85
1	c4	98	GLU	CA-C-N	5.23	124.99	119.76
1	c4	98	GLU	C-N-CA	5.23	124.99	119.76
1	cc	214	MET	CA-C-O	5.23	125.96	119.79
1	cm	38	PRO	CA-C-N	5.23	127.60	120.54
1	cm	38	PRO	C-N-CA	5.23	127.60	120.54
1	cI	82	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	d4	183	ASN	N-CA-C	5.23	116.67	111.07
1	d6	135	ILE	CA-C-O	5.23	126.39	120.85
1	db	177	ALA	CA-C-N	5.23	128.27	120.90
1	db	177	ALA	C-N-CA	5.23	128.27	120.90
1	dl	128	GLU	O-C-N	-5.23	116.19	122.15
1	dn	190	LEU	N-CA-CB	5.23	117.81	110.12
1	du	227	LYS	O-C-N	-5.23	117.09	123.16
1	dA	203	LYS	CA-C-O	5.23	126.09	120.55
1	dF	10	MET	N-CA-C	5.23	118.02	110.28
1	dM	178	SER	N-CA-CB	5.23	117.96	110.06
1	dN	94	GLY	CA-C-O	5.23	124.93	119.07
1	dP	80	TRP	O-C-N	-5.23	116.19	122.15
1	dQ	12	HIS	CB-CG-ND1	-5.23	114.85	122.70
1	dQ	204	ALA	N-CA-C	5.23	117.66	111.33
1	dZ	35	GLU	CA-C-N	5.23	127.62	120.46
1	dZ	35	GLU	C-N-CA	5.23	127.62	120.46
1	e0	144	MET	O-C-N	-5.23	116.58	122.12
1	ef	92	GLU	CA-C-N	5.23	126.38	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ef	92	GLU	C-N-CA	5.23	126.38	119.84
1	el	59	VAL	N-CA-C	5.23	116.43	109.37
1	en	154	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	eo	189	LEU	CB-CA-C	-5.23	102.11	110.79
1	1r	130	TYR	CA-C-N	5.23	127.60	120.54
1	1r	130	TYR	C-N-CA	5.23	127.60	120.54
1	eP	183	ASN	O-C-N	-5.23	116.68	122.07
1	eS	132	ARG	NE-CZ-NH2	-5.23	114.49	119.20
1	f2	226	HIS	N-CA-C	-5.23	106.85	113.23
1	f4	230	VAL	CA-CB-CG1	5.23	119.29	110.40
1	f5	87	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	f9	132	ARG	N-CA-C	5.23	116.98	111.28
1	fb	229	ARG	CA-C-N	5.23	127.51	120.50
1	fb	229	ARG	C-N-CA	5.23	127.51	120.50
1	fe	11	VAL	CG1-CB-CG2	-5.23	99.29	110.80
1	fg	196	PRO	N-CD-CG	5.23	111.05	103.20
1	fi	33	SER	N-CA-C	5.23	112.72	108.07
1	fi	59	VAL	N-CA-C	5.23	115.95	110.62
1	fs	146	SER	O-C-N	-5.23	115.82	120.48
1	fu	95	GLN	CA-C-O	5.23	127.23	121.11
1	fz	111	LEU	N-CA-C	5.23	116.98	111.28
1	fG	147	PRO	O-C-N	-5.23	115.58	122.64
1	fU	129	ILE	CA-C-O	5.23	126.39	120.95
1	g3	77	ALA	N-CA-C	5.23	117.66	111.33
1	q	76	GLU	N-CA-C	5.23	116.98	111.28
1	v	7	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	M	48	THR	N-CA-CB	5.23	116.35	109.55
1	X	226	HIS	CA-CB-CG	-5.23	108.57	113.80
1	g8	186	THR	CA-C-N	5.23	127.24	120.44
1	g8	186	THR	C-N-CA	5.23	127.24	120.44
1	gs	201	ILE	CB-CA-C	5.23	118.87	112.02
1	gu	3	VAL	N-CA-C	5.23	116.11	108.58
1	gJ	58	THR	CA-CB-OG1	5.23	117.44	109.60
1	hL	192	GLN	O-C-N	-5.23	116.58	122.12
1	hM	174	ALA	O-C-N	-5.23	115.84	122.27
1	i3	217	ALA	CA-C-O	-5.23	115.93	121.94
1	i4	23	TRP	CA-C-O	-5.23	115.33	120.82
1	i7	36	VAL	N-CA-C	5.23	117.63	111.09
1	ib	56	LEU	O-C-N	-5.23	116.58	122.12
1	iB	49	PRO	CA-C-N	5.23	127.29	120.28
1	iB	49	PRO	C-N-CA	5.23	127.29	120.28
1	iF	129	ILE	N-CA-C	-5.23	105.40	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iH	84	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	iQ	76	GLU	CA-C-O	5.23	126.09	120.55
1	1S	39	MET	CB-CA-C	5.23	119.09	110.88
1	j3	82	ARG	CA-C-N	5.23	127.55	120.44
1	j3	82	ARG	C-N-CA	5.23	127.55	120.44
1	jd	57	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	jh	31	ALA	O-C-N	-5.23	115.64	122.59
1	jm	5	ASN	CA-CB-CG	5.23	117.83	112.60
1	k3	135	ILE	O-C-N	-5.23	116.80	121.87
1	k5	7	GLN	O-C-N	-5.23	116.89	123.27
1	k5	33	SER	N-CA-CB	5.23	119.09	109.73
1	k5	143	ARG	CA-C-O	5.23	125.40	119.18
1	kj	62	HIS	ND1-CG-CD2	5.23	111.33	106.10
1	kl	31	ALA	N-CA-C	5.23	117.72	111.71
1	kn	87	HIS	CA-CB-CG	5.23	119.03	113.80
1	24	205	LEU	CA-C-O	5.23	126.31	120.82
1	kO	120	HIS	N-CA-C	5.23	117.61	110.24
1	kQ	140	LYS	CB-CA-C	-5.23	101.96	110.85
1	kV	48	THR	N-CA-C	-5.23	103.55	110.40
1	le	74	ASN	N-CA-C	5.23	117.66	111.33
1	lk	194	ALA	CA-C-O	5.23	127.48	121.47
1	lz	195	ASN	O-C-N	-5.23	116.20	121.27
1	lD	150	ILE	O-C-N	-5.23	116.80	121.87
1	2h	100	ARG	O-C-N	-5.23	116.56	122.68
1	2j	87	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	2X	94	GLY	N-CA-C	-5.23	107.90	115.27
1	2Y	165	VAL	N-CA-C	5.23	115.95	110.62
1	31	139	ASN	OD1-CG-ND2	-5.23	117.37	122.60
1	33	12	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	39	63	GLN	CA-C-N	5.23	127.55	120.44
1	39	63	GLN	C-N-CA	5.23	127.55	120.44
1	3g	122	PRO	CA-C-N	5.23	126.38	119.84
1	3g	122	PRO	C-N-CA	5.23	126.38	119.84
1	3i	120	HIS	N-CA-C	5.23	117.81	110.23
1	3D	22	ALA	CA-C-N	5.23	127.24	120.44
1	3D	22	ALA	C-N-CA	5.23	127.24	120.44
1	3L	13	GLN	N-CA-C	-5.23	101.12	109.07
1	3T	80	TRP	N-CA-CB	5.23	117.59	110.01
1	4p	36	VAL	O-C-N	-5.23	116.80	121.87
1	4p	213	GLU	N-CA-C	5.23	116.98	111.28
1	4q	82	ARG	CA-C-O	5.23	126.31	120.82
1	4r	46	GLY	CA-C-N	5.23	128.53	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4r	46	GLY	C-N-CA	5.23	128.53	121.05
1	5f	7	GLN	O-C-N	-5.23	115.92	122.35
1	5l	128	GLU	N-CA-CB	-5.23	102.43	110.12
1	5o	82	ARG	CA-C-N	5.23	130.97	121.92
1	5o	82	ARG	C-N-CA	5.23	130.97	121.92
1	5r	134	ILE	N-CA-C	5.23	115.95	110.62
1	5x	159	GLU	CB-CG-CD	5.23	121.49	112.60
1	5y	229	ARG	N-CA-C	5.23	117.46	110.35
1	5D	151	LEU	N-CA-C	5.23	119.64	113.16
1	5K	9	GLN	N-CA-C	5.23	117.25	107.99
1	65	48	THR	CA-C-N	5.23	125.53	119.47
1	65	48	THR	C-N-CA	5.23	125.53	119.47
1	6t	168	PHE	CA-C-O	5.23	126.09	120.55
1	6E	12	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	6K	212	GLU	O-C-N	-5.23	116.58	122.12
1	6Y	62	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	7b	57	ASN	CA-CB-CG	-5.23	107.37	112.60
1	7d	162	ARG	NE-CZ-NH1	-5.23	116.27	121.50
1	7A	88	ALA	O-C-N	-5.23	116.57	123.21
1	7C	143	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	7E	16	SER	CA-C-N	5.23	126.38	119.84
1	7E	16	SER	C-N-CA	5.23	126.38	119.84
1	7E	166	ASP	CA-C-N	5.23	127.54	120.38
1	7E	166	ASP	C-N-CA	5.23	127.54	120.38
1	7G	97	ARG	N-CA-C	-5.23	101.12	109.07
1	7H	12	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	7L	54	THR	N-CA-CB	5.23	117.59	110.01
1	7R	87	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	8g	229	ARG	CA-C-O	5.23	127.99	120.51
1	8C	32	PHE	CA-C-O	5.23	126.28	119.95
1	8H	179	GLN	CA-C-N	5.23	127.29	120.28
1	8H	179	GLN	C-N-CA	5.23	127.29	120.28
1	8I	132	ARG	N-CA-C	5.23	117.39	111.11
1	8K	158	LYS	CA-C-N	5.23	128.52	121.20
1	8K	158	LYS	C-N-CA	5.23	128.52	121.20
1	8L	202	LEU	CA-C-N	5.23	127.29	120.28
1	8L	202	LEU	C-N-CA	5.23	127.29	120.28
1	97	159	GLU	N-CA-C	5.23	116.24	109.65
1	9X	177	ALA	CA-C-O	5.23	126.98	121.33
1	az	4	GLN	CA-C-N	5.23	129.61	122.34
1	az	4	GLN	C-N-CA	5.23	129.61	122.34
1	15	132	ARG	CD-NE-CZ	5.23	131.72	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	155	GLN	N-CA-CB	5.23	119.93	110.83
1	bb	58	THR	N-CA-CB	5.23	119.07	110.39
1	bf	124	ILE	CA-C-N	-5.23	116.37	121.65
1	bf	124	ILE	C-N-CA	-5.23	116.37	121.65
1	bj	152	ASP	O-C-N	-5.23	115.57	122.42
1	bs	48	THR	CA-C-O	-5.23	115.26	120.96
1	bJ	144	MET	CG-SD-CE	-5.23	89.40	100.90
1	bN	162	ARG	N-CA-C	5.23	116.98	111.28
1	ci	175	GLU	O-C-N	-5.23	116.37	122.96
1	cm	185	MET	N-CA-C	5.23	116.98	111.28
1	co	151	LEU	N-CA-C	5.23	117.72	111.71
1	cp	223	GLY	O-C-N	-5.23	116.07	122.03
1	ct	108	THR	CA-C-O	5.23	125.54	119.32
1	cK	73	ILE	N-CA-C	5.23	115.85	110.36
1	cO	41	SER	CA-C-O	-5.23	115.31	120.90
1	d0	140	LYS	CA-C-O	5.23	125.96	119.79
1	d2	3	VAL	CA-C-N	5.23	129.15	120.94
1	d2	3	VAL	C-N-CA	5.23	129.15	120.94
1	do	58	THR	O-C-N	5.23	128.70	122.27
1	dr	209	ALA	N-CA-C	5.23	117.87	110.50
1	dG	36	VAL	CA-C-O	-5.23	115.51	120.95
1	dN	74	ASN	CB-CG-OD1	-5.23	110.34	120.80
1	dW	82	ARG	CA-C-N	5.23	128.06	120.79
1	dW	82	ARG	C-N-CA	5.23	128.06	120.79
1	e3	67	GLN	CB-CG-CD	5.23	121.49	112.60
1	eb	108	THR	CA-C-N	-5.23	115.35	122.93
1	eb	108	THR	C-N-CA	-5.23	115.35	122.93
1	ef	62	HIS	CA-CB-CG	5.23	119.03	113.80
1	eh	75	GLU	O-C-N	-5.23	116.68	122.07
1	es	62	HIS	CA-CB-CG	-5.23	108.57	113.80
1	eE	120	HIS	CB-CG-CD2	-5.23	124.40	131.20
1	eM	167	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	ft	55	MET	CA-C-N	5.23	127.29	120.28
1	ft	55	MET	C-N-CA	5.23	127.29	120.28
1	fz	205	LEU	N-CA-CB	-5.23	102.28	109.91
1	fH	218	CYS	O-C-N	-5.23	115.64	122.59
1	1z	87	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	k	165	VAL	CA-C-O	5.23	126.39	120.95
1	o	210	THR	N-CA-CB	5.23	118.40	110.45
1	D	189	LEU	O-C-N	5.23	127.66	122.12
1	4	139	ASN	N-CA-CB	5.23	117.81	110.12
1	S	30	LYS	N-CA-CB	5.23	118.83	110.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g9	10	MET	N-CA-C	5.23	116.83	108.41
1	g9	55	MET	CG-SD-CE	-5.23	89.40	100.90
1	g9	66	MET	CA-C-N	5.23	128.26	120.31
1	g9	66	MET	C-N-CA	5.23	128.26	120.31
1	ga	170	LYS	N-CA-C	5.23	117.40	111.02
1	gc	88	ALA	O-C-N	-5.23	117.77	123.26
1	gf	157	PRO	N-CA-C	-5.23	107.21	114.27
1	1C	85	PRO	O-C-N	-5.23	116.53	123.01
1	gA	182	LYS	O-C-N	-5.23	116.69	122.07
1	gF	23	TRP	CG-CD2-CE3	5.23	139.13	133.90
1	gM	58	THR	CA-CB-OG1	5.23	117.44	109.60
1	gW	46	GLY	CA-C-O	5.23	126.12	119.80
1	h3	70	LYS	O-C-N	-5.23	116.69	122.07
1	h5	64	ALA	N-CA-C	5.23	116.66	111.07
1	hm	54	THR	N-CA-CB	5.23	117.90	110.06
1	1J	190	LEU	CA-C-O	5.23	126.09	120.55
1	hr	23	TRP	CA-CB-CG	5.23	123.53	113.60
1	hs	31	ALA	O-C-N	-5.23	116.65	122.09
1	hx	80	TRP	CB-CG-CD1	5.23	134.74	126.90
1	hB	163	ASP	CA-CB-CG	5.23	117.83	112.60
1	hC	72	THR	CA-C-O	-5.23	114.88	120.42
1	hN	158	LYS	N-CA-C	-5.23	105.19	112.30
1	hW	149	SER	N-CA-CB	5.23	119.33	110.49
1	hX	65	ALA	CA-C-N	5.23	127.28	120.28
1	hX	65	ALA	C-N-CA	5.23	127.28	120.28
1	hZ	37	ILE	O-C-N	-5.23	115.14	121.10
1	i5	110	THR	N-CA-CB	5.23	118.23	110.29
1	id	199	LYS	O-C-N	-5.23	116.11	122.22
1	il	133	TRP	N-CA-C	5.23	116.98	111.28
1	iq	112	GLN	CB-CA-C	-5.23	102.67	110.88
1	ir	19	THR	CA-CB-CG2	5.23	119.39	110.50
1	iu	59	VAL	O-C-N	5.23	128.90	122.05
1	iC	4	GLN	N-CA-C	5.23	117.87	110.50
1	iF	143	ARG	NE-CZ-NH2	5.23	123.91	119.20
1	iF	201	ILE	CA-C-O	-5.23	115.51	120.95
1	iI	178	SER	CB-CA-C	5.23	118.89	109.64
1	1S	180	GLU	CA-C-N	5.23	127.15	120.56
1	1S	180	GLU	C-N-CA	5.23	127.15	120.56
1	j2	78	ALA	CA-C-N	5.23	127.29	120.28
1	j2	78	ALA	C-N-CA	5.23	127.29	120.28
1	j2	215	MET	N-CA-C	5.23	116.98	111.28
1	jf	24	VAL	O-C-N	-5.23	115.89	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	16	SER	CA-C-N	5.23	124.55	118.85
1	ju	16	SER	C-N-CA	5.23	124.55	118.85
1	jz	202	LEU	CA-C-N	5.23	129.52	120.58
1	jz	202	LEU	C-N-CA	5.23	129.52	120.58
1	1X	167	ARG	NE-CZ-NH2	-5.23	114.50	119.20
1	jK	137	GLY	O-C-N	-5.23	117.17	122.19
1	jL	46	GLY	N-CA-C	5.23	122.40	114.61
1	jL	229	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	jU	52	LEU	CA-C-O	5.23	125.96	120.42
1	k2	116	GLY	O-C-N	-5.23	117.12	122.19
1	k5	62	HIS	ND1-CG-CD2	5.23	111.33	106.10
1	k8	10	MET	CB-CA-C	-5.23	100.02	110.42
1	20	139	ASN	N-CA-C	-5.23	105.48	111.07
1	ka	203	LYS	CB-CG-CD	5.23	123.32	111.30
1	kc	59	VAL	CA-C-N	5.23	131.66	121.41
1	kc	59	VAL	C-N-CA	5.23	131.66	121.41
1	kg	18	ARG	CB-CA-C	-5.23	102.11	110.79
1	kj	70	LYS	O-C-N	-5.23	116.58	122.12
1	21	87	HIS	CA-CB-CG	5.23	119.03	113.80
1	kn	222	GLY	CA-C-N	5.23	130.08	121.87
1	kn	222	GLY	C-N-CA	5.23	130.08	121.87
1	kt	127	GLY	CA-C-N	5.23	128.26	120.31
1	kt	127	GLY	C-N-CA	5.23	128.26	120.31
1	kx	148	THR	N-CA-C	5.23	118.02	110.28
1	ky	36	VAL	N-CA-C	-5.23	105.23	112.50
1	ky	84	HIS	CA-C-N	5.23	125.22	119.89
1	ky	84	HIS	C-N-CA	5.23	125.22	119.89
1	kD	7	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	kT	11	VAL	O-C-N	-5.23	116.08	122.61
1	kZ	195	ASN	CA-C-O	-5.23	115.25	120.64
1	l4	200	THR	CA-C-N	5.23	128.91	120.55
1	l4	200	THR	C-N-CA	5.23	128.91	120.55
1	26	168	PHE	N-CA-CB	-5.23	102.43	110.12
1	ld	40	PHE	CA-C-N	5.23	127.24	120.44
1	ld	40	PHE	C-N-CA	5.23	127.24	120.44
1	28	141	ILE	N-CA-C	5.23	115.85	110.36
1	ly	83	LEU	N-CA-CB	-5.23	102.44	110.12
1	lz	124	ILE	N-CA-CB	5.23	118.53	111.21
1	lE	27	VAL	O-C-N	-5.23	116.80	121.87
1	lE	107	THR	N-CA-CB	5.23	118.17	110.33
1	lL	135	ILE	CA-CB-CG2	5.23	119.39	110.50
1	2f	73	ILE	CA-C-N	5.23	127.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2f	73	ILE	C-N-CA	5.23	127.28	120.28
1	2f	126	VAL	CA-C-N	5.23	125.75	120.00
1	2f	126	VAL	C-N-CA	5.23	125.75	120.00
1	2l	71	GLU	CA-C-N	5.23	127.60	120.54
1	2l	71	GLU	C-N-CA	5.23	127.60	120.54
1	2l	76	GLU	CA-C-N	5.23	127.28	120.28
1	2l	76	GLU	C-N-CA	5.23	127.28	120.28
1	2q	79	GLU	N-CA-C	5.23	116.98	111.28
1	2q	165	VAL	CA-C-O	5.23	126.39	120.95
1	2t	120	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	2v	129	ILE	N-CA-CB	5.23	117.26	110.57
1	2x	113	GLU	N-CA-CB	-5.23	102.15	109.94
1	2z	181	VAL	N-CA-CB	-5.23	103.43	110.54
1	2I	229	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	2L	25	LYS	N-CA-CB	5.23	118.35	110.30
1	2U	189	LEU	N-CA-CB	5.23	118.27	110.22
1	2Y	49	PRO	N-CA-C	5.23	121.54	113.75
1	36	1	PRO	O-C-N	-5.23	114.64	123.00
1	3a	20	LEU	CA-C-O	5.23	125.98	119.97
1	3h	32	PHE	CA-CB-CG	-5.23	108.57	113.80
1	3l	129	ILE	CA-C-O	-5.23	115.63	121.17
1	3p	82	ARG	CB-CA-C	5.23	119.16	110.90
1	3t	179	GLN	CB-CA-C	-5.23	100.63	110.67
1	3x	172	LEU	CA-C-N	5.23	127.28	120.28
1	3x	172	LEU	C-N-CA	5.23	127.28	120.28
1	3C	41	SER	O-C-N	-5.23	116.69	122.07
1	3S	135	ILE	N-CA-C	5.23	115.95	110.62
1	3W	82	ARG	O-C-N	-5.23	116.11	122.22
1	3W	212	GLU	N-CA-C	5.23	117.66	111.33
1	4l	187	GLU	CB-CG-CD	-5.23	103.71	112.60
1	4r	208	ALA	CA-C-O	5.23	124.95	119.51
1	4C	141	ILE	CA-CB-CG1	5.23	119.29	110.40
1	4K	24	VAL	CA-C-O	-5.23	115.61	121.05
1	4N	176	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	4O	138	LEU	N-CA-C	5.23	117.06	111.36
1	4R	58	THR	N-CA-C	5.23	117.88	111.82
1	4R	209	ALA	CA-C-O	-5.23	113.04	120.51
1	56	78	ALA	N-CA-C	5.23	116.98	111.28
1	5A	146	SER	CA-C-O	-5.23	113.52	118.33
1	5E	89	GLY	CA-C-N	5.23	126.38	119.84
1	5E	89	GLY	C-N-CA	5.23	126.38	119.84
1	5I	76	GLU	CA-C-N	5.23	127.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5I	76	GLU	C-N-CA	5.23	127.28	120.28
1	5S	218	CYS	CA-C-N	5.23	127.81	120.28
1	5S	218	CYS	C-N-CA	5.23	127.81	120.28
1	5T	144	MET	CG-SD-CE	-5.23	89.40	100.90
1	5Z	95	GLN	CA-C-O	5.23	126.61	120.75
1	65	82	ARG	O-C-N	-5.23	116.58	122.12
1	6g	221	VAL	N-CA-CB	5.23	116.42	110.72
1	6j	132	ARG	CA-C-N	5.23	127.28	120.28
1	6j	132	ARG	C-N-CA	5.23	127.28	120.28
1	6k	101	GLY	O-C-N	-5.23	117.12	122.19
1	6o	65	ALA	N-CA-CB	-5.23	102.42	110.16
1	6w	68	MET	N-CA-C	5.23	116.98	111.28
1	6G	181	VAL	CA-C-O	5.23	126.39	120.95
1	6I	202	LEU	N-CA-C	5.23	117.72	111.71
1	6N	128	GLU	N-CA-C	5.23	117.66	111.33
1	6O	219	GLN	CA-C-N	5.23	129.06	122.00
1	6O	219	GLN	C-N-CA	5.23	129.06	122.00
1	6V	152	ASP	CA-CB-CG	5.23	117.83	112.60
1	6Y	53	ASN	CA-CB-CG	-5.23	107.37	112.60
1	70	9	GLN	CB-CG-CD	5.23	121.49	112.60
1	7l	52	LEU	CA-C-N	5.23	127.71	120.29
1	7l	52	LEU	C-N-CA	5.23	127.71	120.29
1	7l	87	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	7l	164	TYR	CB-CG-CD2	5.23	128.64	120.80
1	7x	80	TRP	CZ3-CH2-CZ2	-5.23	114.70	121.50
1	7x	173	ARG	NE-CZ-NH2	-5.23	114.50	119.20
1	7I	17	PRO	CA-C-N	5.23	127.71	120.29
1	7I	17	PRO	C-N-CA	5.23	127.71	120.29
1	7K	210	THR	N-CA-CB	5.23	117.95	110.06
1	7Q	146	SER	O-C-N	-5.23	115.88	121.42
1	7R	225	GLY	O-C-N	-5.23	118.55	123.25
1	7T	11	VAL	N-CA-C	5.23	116.71	109.29
1	7V	201	ILE	CA-C-N	5.23	127.24	120.44
1	7V	201	ILE	C-N-CA	5.23	127.24	120.44
1	7X	144	MET	CA-C-N	5.23	131.78	122.06
1	7X	144	MET	C-N-CA	5.23	131.78	122.06
1	7Y	13	GLN	CA-C-N	5.23	129.15	120.94
1	7Y	13	GLN	C-N-CA	5.23	129.15	120.94
1	86	166	ASP	CA-C-N	5.23	127.24	120.44
1	86	166	ASP	C-N-CA	5.23	127.24	120.44
1	87	34	PRO	CA-C-O	-5.23	111.09	120.60
1	8a	172	LEU	N-CA-C	5.23	116.98	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8b	113	GLU	N-CA-C	5.23	116.98	111.28
1	8f	164	TYR	N-CA-C	5.23	116.98	111.28
1	8l	126	VAL	CA-C-N	5.23	125.78	119.98
1	8l	126	VAL	C-N-CA	5.23	125.78	119.98
1	8r	11	VAL	CA-CB-CG2	-5.23	101.51	110.40
1	8v	21	ASN	N-CA-C	-5.23	105.58	111.28
1	8v	50	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	8A	14	ALA	CB-CA-C	5.23	118.26	109.48
1	8F	159	GLU	CA-C-O	-5.23	115.44	119.46
1	8R	19	THR	CA-C-N	5.23	127.55	120.44
1	8R	19	THR	C-N-CA	5.23	127.55	120.44
1	8X	78	ALA	CA-C-N	5.23	127.81	120.28
1	8X	78	ALA	C-N-CA	5.23	127.81	120.28
1	9f	45	GLU	CA-C-N	5.23	131.65	121.41
1	9f	45	GLU	C-N-CA	5.23	131.65	121.41
1	9j	67	GLN	N-CA-C	5.23	117.38	111.11
1	9o	176	GLN	CA-C-O	5.23	124.65	118.90
1	9s	194	ALA	CA-C-N	5.23	128.60	120.60
1	9s	194	ALA	C-N-CA	5.23	128.60	120.60
1	9v	98	GLU	N-CA-C	5.23	116.47	109.83
1	9U	33	SER	O-C-N	5.23	125.06	121.71
1	Z	74	ASN	CA-CB-CG	-5.23	107.37	112.60
1	a6	168	PHE	CB-CA-C	5.23	119.47	110.79
1	a7	104	ILE	CB-CA-C	5.23	119.20	112.14
1	ac	61	GLY	N-CA-C	5.23	121.13	112.66
1	ae	14	ALA	N-CA-C	5.23	117.43	110.53
1	af	73	ILE	CA-C-N	5.23	127.54	120.38
1	af	73	ILE	C-N-CA	5.23	127.54	120.38
1	ah	63	GLN	N-CA-C	5.23	118.44	111.75
1	ak	67	GLN	CA-C-N	5.23	127.23	120.44
1	ak	67	GLN	C-N-CA	5.23	127.23	120.44
1	an	181	VAL	N-CA-C	-5.23	105.40	110.42
1	ao	184	TRP	N-CA-CB	5.23	117.65	110.07
1	ap	154	ARG	NH1-CZ-NH2	-5.23	112.50	119.30
1	ar	12	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	au	39	MET	N-CA-C	5.23	116.66	111.07
1	ax	156	GLY	CA-C-N	5.23	125.69	120.04
1	ax	156	GLY	C-N-CA	5.23	125.69	120.04
1	aM	56	LEU	N-CA-C	5.23	116.98	111.28
1	aS	184	TRP	CA-C-N	5.23	128.25	120.31
1	aS	184	TRP	C-N-CA	5.23	128.25	120.31
1	aU	181	VAL	CA-C-N	5.23	127.29	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aU	181	VAL	C-N-CA	5.23	127.29	120.28
1	b0	41	SER	O-C-N	-5.23	116.58	122.12
1	b5	130	TYR	CA-CB-CG	5.23	123.31	113.90
1	bc	129	ILE	CA-C-O	-5.23	115.51	120.95
1	bg	224	PRO	CA-C-N	5.23	126.14	120.44
1	bg	224	PRO	C-N-CA	5.23	126.14	120.44
1	br	11	VAL	O-C-N	-5.23	117.69	123.18
1	by	222	GLY	CA-C-N	5.23	130.08	121.87
1	by	222	GLY	C-N-CA	5.23	130.08	121.87
1	bz	16	SER	N-CA-CB	5.23	117.35	110.29
1	bC	213	GLU	CA-C-N	5.23	128.25	120.31
1	bC	213	GLU	C-N-CA	5.23	128.25	120.31
1	bJ	211	LEU	CA-C-N	5.23	128.66	120.82
1	bJ	211	LEU	C-N-CA	5.23	128.66	120.82
1	bP	5	ASN	N-CA-C	-5.23	100.65	108.96
1	bU	121	ASN	CA-C-O	-5.23	114.71	119.62
1	bV	9	GLN	N-CA-C	5.23	118.84	111.52
1	bV	226	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	bW	13	GLN	CA-C-N	5.23	129.15	120.94
1	bW	13	GLN	C-N-CA	5.23	129.15	120.94
1	bZ	32	PHE	O-C-N	-5.23	115.64	122.39
1	c1	161	PHE	CA-C-N	5.23	127.29	120.28
1	c1	161	PHE	C-N-CA	5.23	127.29	120.28
1	c1	201	ILE	CB-CA-C	-5.23	105.01	112.22
1	ca	76	GLU	CA-C-N	5.23	127.28	120.28
1	ca	76	GLU	C-N-CA	5.23	127.28	120.28
1	cd	98	GLU	CA-C-O	-5.23	115.69	120.50
1	ce	98	GLU	CA-C-N	5.23	125.13	119.85
1	ce	98	GLU	C-N-CA	5.23	125.13	119.85
1	cw	184	TRP	O-C-N	-5.23	116.69	122.07
1	cH	14	ALA	CB-CA-C	5.23	119.16	109.54
1	cJ	100	ARG	N-CA-CB	5.23	118.37	110.42
1	cQ	120	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
1	1h	34	PRO	N-CD-CG	-5.23	95.36	103.20
1	cW	113	GLU	N-CA-CB	5.23	117.81	110.12
1	dq	111	LEU	CA-C-N	5.23	127.24	120.44
1	dq	111	LEU	C-N-CA	5.23	127.24	120.44
1	du	167	ARG	CA-C-O	5.23	126.09	120.55
1	dH	173	ARG	N-CA-C	5.23	116.98	111.28
1	dS	128	GLU	CA-C-O	5.23	126.08	120.70
1	e7	173	ARG	O-C-N	-5.23	115.64	122.59
1	eq	187	GLU	O-C-N	-5.23	114.59	122.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ez	119	THR	CA-C-N	5.23	129.15	120.94
1	ez	119	THR	C-N-CA	5.23	129.15	120.94
1	eP	161	PHE	N-CA-C	5.23	121.94	110.80
1	eS	45	GLU	CB-CG-CD	5.23	121.49	112.60
1	eY	171	THR	N-CA-CB	5.23	117.81	110.12
1	f6	9	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	f7	63	GLN	N-CA-C	5.23	116.66	111.07
1	f9	62	HIS	CG-CD2-NE2	-5.23	101.97	107.20
1	1v	88	ALA	CA-C-O	5.23	127.09	121.55
1	fb	135	ILE	O-C-N	-5.23	116.71	121.94
1	fj	229	ARG	CB-CG-CD	5.23	123.33	111.30
1	1w	163	ASP	CA-C-N	5.23	127.24	120.44
1	1w	163	ASP	C-N-CA	5.23	127.24	120.44
1	fm	24	VAL	CB-CA-C	5.23	118.87	112.02
1	fo	47	ALA	N-CA-C	5.23	117.87	110.50
1	fr	201	ILE	O-C-N	-5.23	116.80	121.87
1	fw	102	SER	CA-C-N	5.23	127.71	120.29
1	fw	102	SER	C-N-CA	5.23	127.71	120.29
1	fC	161	PHE	CA-C-O	5.23	126.09	120.55
1	fF	86	VAL	CA-C-O	5.23	126.29	120.59
1	fI	29	GLU	N-CA-CB	5.23	117.87	110.13
1	fK	96	MET	N-CA-C	-5.23	107.28	113.97
1	fT	144	MET	O-C-N	-5.23	116.58	122.12
1	f	203	LYS	O-C-N	-5.23	115.84	122.27
1	u	36	VAL	CB-CA-C	5.23	118.66	111.97
1	u	196	PRO	N-CA-CB	-5.23	98.49	103.51
1	A	10	MET	CA-C-O	-5.23	114.52	120.58
1	E	53	ASN	N-CA-CB	5.23	117.81	110.12
1	L	71	GLU	CA-C-O	5.23	126.09	120.55
1	9	121	ASN	O-C-N	-5.23	114.67	121.10
1	1C	114	GLN	CA-C-O	-5.23	115.33	120.82
1	gp	68	MET	CA-C-N	5.23	127.23	120.44
1	gp	68	MET	C-N-CA	5.23	127.23	120.44
1	gQ	56	LEU	CA-C-O	-5.23	115.01	120.55
1	h8	177	ALA	CB-CA-C	5.23	118.39	109.72
1	1I	125	PRO	CA-C-O	-5.23	115.86	123.07
1	hg	139	ASN	CA-CB-CG	5.23	117.83	112.60
1	hi	28	GLU	O-C-N	-5.23	116.44	122.87
1	hw	195	ASN	CA-C-O	-5.23	115.00	120.70
1	hx	111	LEU	O-C-N	-5.23	116.58	122.12
1	hz	167	ARG	CB-CA-C	-5.23	102.11	110.79
1	hA	82	ARG	NE-CZ-NH2	-5.23	114.50	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hU	81	ASP	N-CA-C	5.23	116.98	111.28
1	ik	106	GLY	O-C-N	-5.23	115.79	122.43
1	ix	128	GLU	CA-C-N	5.23	127.62	120.46
1	ix	128	GLU	C-N-CA	5.23	127.62	120.46
1	iG	219	GLN	N-CA-C	5.23	116.67	109.15
1	iN	179	GLN	CA-C-O	5.23	126.09	120.55
1	jo	173	ARG	NE-CZ-NH1	5.23	126.73	121.50
1	jD	76	GLU	O-C-N	5.23	127.66	122.12
1	jO	100	ARG	NE-CZ-NH2	-5.23	114.50	119.20
1	k2	136	LEU	O-C-N	5.23	127.53	122.09
1	kx	12	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	kW	143	ARG	N-CA-C	5.23	116.98	111.28
1	l4	124	ILE	N-CA-CB	5.23	119.28	111.86
1	l8	79	GLU	N-CA-C	5.23	117.38	111.11
1	li	214	MET	O-C-N	-5.23	116.58	122.12
1	28	173	ARG	N-CA-C	5.23	118.44	111.75
1	lw	172	LEU	O-C-N	-5.23	116.58	122.12
1	lF	226	HIS	ND1-CE1-NE2	5.23	113.63	108.40
1	lQ	20	LEU	CA-C-N	5.23	127.28	120.28
1	lQ	20	LEU	C-N-CA	5.23	127.28	120.28
1	2m	36	VAL	O-C-N	-5.23	116.06	122.12
1	2p	159	GLU	N-CA-C	5.23	120.10	109.60
1	2w	226	HIS	CG-CD2-NE2	5.23	112.43	107.20
1	2I	40	PHE	CA-C-N	5.23	127.23	120.44
1	2I	40	PHE	C-N-CA	5.23	127.23	120.44
1	2M	24	VAL	CB-CA-C	-5.23	105.08	112.14
1	2N	87	HIS	CA-C-O	-5.23	115.18	121.40
1	3d	108	THR	CA-CB-OG1	5.23	117.44	109.60
1	3w	53	ASN	CA-CB-CG	-5.23	107.37	112.60
1	3H	62	HIS	CB-CG-CD2	-5.23	124.41	131.20
1	40	10	MET	N-CA-CB	5.23	117.65	109.97
1	43	63	GLN	CG-CD-NE2	5.23	124.24	116.40
1	4c	48	THR	CA-C-N	5.23	125.28	119.32
1	4c	48	THR	C-N-CA	5.23	125.28	119.32
1	4l	45	GLU	N-CA-C	5.23	119.99	111.37
1	4I	162	ARG	CA-C-N	5.23	127.71	120.29
1	4I	162	ARG	C-N-CA	5.23	127.71	120.29
1	4U	53	ASN	CA-C-O	-5.23	113.96	119.97
1	5U	14	ALA	N-CA-CB	5.23	117.72	109.83
1	5X	2	ILE	CA-CB-CG2	-5.23	101.62	110.50
1	5Z	15	ILE	CA-C-N	5.23	127.76	120.65
1	5Z	15	ILE	C-N-CA	5.23	127.76	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6g	55	MET	CB-CA-C	5.23	119.47	110.79
1	6v	36	VAL	CA-C-O	5.23	126.11	120.47
1	6w	203	LYS	CA-C-N	5.23	130.75	122.60
1	6w	203	LYS	C-N-CA	5.23	130.75	122.60
1	6y	154	ARG	NE-CZ-NH2	-5.23	114.50	119.20
1	6A	165	VAL	CA-C-N	5.23	128.06	120.79
1	6A	165	VAL	C-N-CA	5.23	128.06	120.79
1	6M	106	GLY	N-CA-C	5.23	125.57	113.18
1	6M	227	LYS	N-CA-CB	5.23	119.10	110.69
1	6O	12	HIS	O-C-N	-5.23	117.06	122.96
1	7u	59	VAL	CA-C-O	-5.23	114.63	120.95
1	7O	108	THR	N-CA-CB	5.23	120.08	111.62
1	7R	96	MET	CG-SD-CE	-5.23	89.40	100.90
1	81	138	LEU	N-CA-C	5.23	116.98	111.28
1	8c	210	THR	N-CA-C	5.23	117.92	110.24
1	8j	162	ARG	CD-NE-CZ	-5.23	117.08	124.40
1	8l	227	LYS	N-CA-C	5.23	117.46	110.35
1	8x	216	THR	N-CA-CB	5.23	118.59	110.44
1	91	92	GLU	CA-C-N	5.23	126.37	119.84
1	91	92	GLU	C-N-CA	5.23	126.37	119.84
1	9Z	83	LEU	O-C-N	-5.23	115.84	122.27
1	a0	2	ILE	N-CA-C	5.23	115.65	108.12
1	aP	192	GLN	N-CA-C	5.23	119.37	112.89
1	br	95	GLN	CB-CG-CD	5.23	121.48	112.60
1	bJ	221	VAL	CA-C-O	-5.23	116.35	121.58
1	bS	35	GLU	CA-C-N	5.23	127.62	120.46
1	bS	35	GLU	C-N-CA	5.23	127.62	120.46
1	c7	37	ILE	O-C-N	-5.23	117.08	120.42
1	ca	84	HIS	CA-C-N	5.23	125.22	119.89
1	ca	84	HIS	C-N-CA	5.23	125.22	119.89
1	ck	115	ILE	CB-CA-C	5.23	119.43	112.22
1	cv	214	MET	N-CA-C	5.23	119.37	112.89
1	cC	9	GLN	CA-C-N	5.23	131.52	121.54
1	cC	9	GLN	C-N-CA	5.23	131.52	121.54
1	cO	155	GLN	N-CA-C	5.23	118.58	110.17
1	d0	6	LEU	N-CA-CB	-5.23	102.74	110.53
1	dk	133	TRP	CA-C-N	5.23	127.14	120.56
1	dk	133	TRP	C-N-CA	5.23	127.14	120.56
1	dp	24	VAL	CA-CB-CG1	5.23	119.28	110.40
1	dt	112	GLN	N-CA-C	5.23	116.98	111.28
1	dt	142	VAL	CA-CB-CG1	5.23	119.28	110.40
1	dC	84	HIS	N-CA-CB	-5.23	103.53	111.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dD	153	ILE	N-CA-CB	5.23	116.50	110.49
1	dJ	153	ILE	O-C-N	-5.23	116.98	122.68
1	dO	134	ILE	CA-C-N	5.23	127.62	120.46
1	dO	134	ILE	C-N-CA	5.23	127.62	120.46
1	e4	146	SER	CB-CA-C	-5.23	100.29	108.91
1	e9	139	ASN	CB-CA-C	-5.23	102.67	110.88
1	ec	8	GLY	O-C-N	-5.23	116.22	122.33
1	ep	138	LEU	N-CA-C	5.23	116.98	111.28
1	ex	203	LYS	N-CA-C	-5.23	106.86	113.18
1	ez	81	ASP	CA-C-N	5.23	127.71	120.29
1	ez	81	ASP	C-N-CA	5.23	127.71	120.29
1	eD	50	GLN	CA-C-N	5.23	127.55	120.65
1	eD	50	GLN	C-N-CA	5.23	127.55	120.65
1	eS	168	PHE	CB-CA-C	5.23	119.73	110.85
1	eT	100	ARG	CA-C-N	5.23	125.78	119.98
1	eT	100	ARG	C-N-CA	5.23	125.78	119.98
1	fi	164	TYR	CA-C-O	5.23	126.82	121.07
1	fr	191	VAL	O-C-N	5.23	127.21	121.83
1	fs	63	GLN	OE1-CD-NE2	-5.23	117.37	122.60
1	fO	74	ASN	CA-C-N	5.23	127.23	120.44
1	fO	74	ASN	C-N-CA	5.23	127.23	120.44
1	fT	56	LEU	O-C-N	-5.23	116.58	122.12
1	fX	160	PRO	O-C-N	-5.23	116.63	123.06
1	z	30	LYS	CA-C-O	5.23	125.96	119.79
1	I	138	LEU	N-CA-C	5.23	117.65	111.33
1	V	16	SER	O-C-N	-5.23	117.09	121.38
1	ge	127	GLY	CA-C-N	5.22	127.23	120.44
1	ge	127	GLY	C-N-CA	5.22	127.23	120.44
1	gj	55	MET	O-C-N	-5.22	116.69	122.07
1	gl	205	LEU	O-C-N	-5.22	115.84	122.27
1	gm	132	ARG	CA-C-O	5.22	126.09	120.55
1	gt	139	ASN	O-C-N	-5.22	116.58	122.12
1	gv	78	ALA	N-CA-C	5.22	116.66	111.07
1	gw	9	GLN	O-C-N	-5.22	116.59	123.28
1	gA	133	TRP	CA-C-N	5.22	127.62	120.46
1	gA	133	TRP	C-N-CA	5.22	127.62	120.46
1	gJ	84	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	h0	41	SER	O-C-N	-5.22	115.84	122.27
1	ha	212	GLU	N-CA-C	5.22	117.72	111.71
1	hd	211	LEU	N-CA-C	5.22	116.97	111.28
1	hm	176	GLN	CA-C-N	5.22	130.72	122.36
1	hm	176	GLN	C-N-CA	5.22	130.72	122.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ho	105	ALA	CA-C-N	5.22	131.15	120.80
1	ho	105	ALA	C-N-CA	5.22	131.15	120.80
1	hH	196	PRO	N-CA-CB	5.22	108.84	103.15
1	hW	208	ALA	CB-CA-C	-5.22	100.56	109.65
1	i2	178	SER	O-C-N	-5.22	116.39	122.81
1	i6	23	TRP	N-CA-CB	-5.22	102.16	109.94
1	ik	191	VAL	O-C-N	-5.22	116.45	121.83
1	il	84	HIS	CA-CB-CG	-5.22	108.58	113.80
1	1P	67	GLN	CB-CG-CD	5.22	121.48	112.60
1	iu	84	HIS	CB-CG-ND1	-5.22	114.86	122.70
1	iu	87	HIS	CA-C-O	5.22	126.12	120.32
1	ix	29	GLU	N-CA-C	5.22	119.75	112.90
1	1R	178	SER	O-C-N	-5.22	117.06	122.96
1	iU	158	LYS	CA-C-N	5.22	128.09	120.51
1	iU	158	LYS	C-N-CA	5.22	128.09	120.51
1	j3	55	MET	N-CA-C	5.22	116.66	111.07
1	ji	10	MET	N-CA-C	-5.22	100.00	108.41
1	jy	95	GLN	O-C-N	-5.22	116.47	122.95
1	jK	230	VAL	CB-CA-C	5.22	118.02	111.65
1	jM	148	THR	N-CA-CB	5.22	119.32	110.49
1	jT	135	ILE	CA-C-N	5.22	127.28	120.28
1	jT	135	ILE	C-N-CA	5.22	127.28	120.28
1	jV	196	PRO	N-CA-CB	-5.22	97.75	103.39
1	jW	98	GLU	N-CA-CB	-5.22	102.77	110.14
1	jX	177	ALA	N-CA-C	5.22	118.07	109.76
1	k1	6	LEU	N-CA-C	5.22	121.93	110.80
1	k8	101	GLY	CA-C-O	5.22	126.13	120.75
1	kb	116	GLY	O-C-N	5.22	129.49	122.70
1	kg	125	PRO	CA-C-N	5.22	128.72	120.47
1	kg	125	PRO	C-N-CA	5.22	128.72	120.47
1	kh	90	PRO	N-CA-CB	-5.22	99.99	102.92
1	ki	64	ALA	CB-CA-C	-5.22	102.68	110.88
1	kr	70	LYS	O-C-N	-5.22	115.84	122.27
1	kA	147	PRO	CB-CA-C	5.22	120.18	111.56
1	kE	24	VAL	N-CA-C	5.22	115.85	110.36
1	kG	150	ILE	O-C-N	-5.22	116.04	122.57
1	kZ	181	VAL	O-C-N	-5.22	116.80	121.87
1	l1	195	ASN	CA-C-N	5.22	125.28	119.32
1	l1	195	ASN	C-N-CA	5.22	125.28	119.32
1	la	131	LYS	N-CA-CB	-5.22	102.43	110.16
1	ly	19	THR	OG1-CB-CG2	-5.22	98.85	109.30
1	lC	157	PRO	CA-C-O	-5.22	112.17	119.74

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	182	LYS	CA-C-N	5.22	127.23	120.44
1	lH	182	LYS	C-N-CA	5.22	127.23	120.44
1	lN	71	GLU	CB-CA-C	-5.22	102.68	110.88
1	2k	130	TYR	CB-CG-CD2	-5.22	112.96	120.80
1	2w	18	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	2C	165	VAL	N-CA-C	-5.22	105.29	110.62
1	2F	226	HIS	N-CA-C	-5.22	99.27	108.20
1	2K	212	GLU	N-CA-C	5.22	117.38	111.11
1	2V	46	GLY	CA-C-N	5.22	128.76	121.24
1	2V	46	GLY	C-N-CA	5.22	128.76	121.24
1	37	185	MET	O-C-N	-5.22	115.84	122.27
1	38	11	VAL	CB-CA-C	5.22	118.41	110.62
1	3o	37	ILE	CB-CA-C	-5.22	108.81	114.35
1	3q	191	VAL	CA-C-O	5.22	126.39	120.85
1	3t	179	GLN	CA-C-N	5.22	127.23	120.44
1	3t	179	GLN	C-N-CA	5.22	127.23	120.44
1	3u	226	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	3I	141	ILE	N-CA-CB	5.22	116.66	110.55
1	3L	72	THR	N-CA-C	5.22	116.97	111.28
1	3R	150	ILE	CA-C-N	5.22	128.25	120.31
1	3R	150	ILE	C-N-CA	5.22	128.25	120.31
1	3Y	182	LYS	N-CA-CB	5.22	118.35	110.30
1	40	219	GLN	O-C-N	-5.22	117.09	123.10
1	41	45	GLU	N-CA-C	5.22	118.14	110.30
1	48	140	LYS	N-CA-C	5.22	116.97	111.28
1	4e	4	GLN	CA-C-O	-5.22	115.35	121.10
1	4e	114	GLN	N-CA-C	5.22	116.97	111.28
1	4j	5	ASN	CA-CB-CG	-5.22	107.38	112.60
1	4l	212	GLU	N-CA-CB	-5.22	102.22	110.06
1	4m	132	ARG	CB-CG-CD	5.22	123.32	111.30
1	4o	37	ILE	CA-C-O	-5.22	114.41	118.85
1	4O	115	ILE	N-CA-C	5.22	115.85	110.36
1	4P	179	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	4Z	168	PHE	N-CA-CB	-5.22	102.44	110.01
1	50	218	CYS	N-CA-CB	5.22	119.32	110.49
1	51	78	ALA	CB-CA-C	-5.22	102.65	110.90
1	58	105	ALA	N-CA-C	5.22	119.14	112.87
1	5t	185	MET	CA-CB-CG	5.22	124.55	114.10
1	5v	30	LYS	CA-C-N	5.22	128.01	120.38
1	5v	30	LYS	C-N-CA	5.22	128.01	120.38
1	5C	24	VAL	CA-C-O	-5.22	115.31	120.85
1	5K	135	ILE	CA-C-O	-5.22	115.52	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5N	120	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	5Q	76	GLU	N-CA-CB	5.22	117.89	110.16
1	5R	172	LEU	O-C-N	-5.22	116.45	122.09
1	5U	38	PRO	CA-C-N	5.22	127.28	120.28
1	5U	38	PRO	C-N-CA	5.22	127.28	120.28
1	5X	102	SER	CA-C-N	5.22	127.28	120.28
1	5X	102	SER	C-N-CA	5.22	127.28	120.28
1	61	197	ASP	CA-C-N	5.22	127.71	120.29
1	61	197	ASP	C-N-CA	5.22	127.71	120.29
1	64	23	TRP	N-CA-C	5.22	117.38	111.11
1	65	198	CYS	N-CA-C	5.22	116.97	111.28
1	67	31	ALA	CB-CA-C	-5.22	110.12	117.23
1	6a	74	ASN	CA-C-N	5.22	127.28	120.28
1	6a	74	ASN	C-N-CA	5.22	127.28	120.28
1	6c	168	PHE	O-C-N	-5.22	116.69	122.07
1	6r	174	ALA	N-CA-CB	5.22	118.92	110.40
1	6t	168	PHE	N-CA-CB	-5.22	102.44	110.12
1	6B	19	THR	OG1-CB-CG2	-5.22	98.85	109.30
1	6B	147	PRO	N-CA-C	5.22	120.88	114.35
1	6L	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	70	73	ILE	CA-C-N	5.22	127.28	120.28
1	70	73	ILE	C-N-CA	5.22	127.28	120.28
1	7f	96	MET	CG-SD-CE	-5.22	89.40	100.90
1	7v	213	GLU	CA-C-O	-5.22	114.44	120.24
1	7z	172	LEU	CA-C-N	5.22	127.80	120.28
1	7z	172	LEU	C-N-CA	5.22	127.80	120.28
1	7C	31	ALA	N-CA-C	5.22	116.91	108.08
1	7F	124	ILE	CB-CA-C	-5.22	105.12	110.71
1	7I	73	ILE	N-CA-C	5.22	116.00	110.72
1	7S	123	PRO	N-CA-C	5.22	119.52	111.21
1	85	92	GLU	N-CA-C	5.22	116.47	109.83
1	87	140	LYS	CA-C-N	5.22	127.14	120.56
1	87	140	LYS	C-N-CA	5.22	127.14	120.56
1	8d	147	PRO	N-CD-CG	5.22	111.04	103.20
1	8m	101	GLY	N-CA-C	5.22	120.08	113.24
1	8n	161	PHE	CA-C-O	-5.22	115.01	120.55
1	8u	137	GLY	CA-C-N	5.22	127.59	120.54
1	8u	137	GLY	C-N-CA	5.22	127.59	120.54
1	8A	6	LEU	N-CA-C	5.22	117.80	109.96
1	8E	57	ASN	CA-C-N	5.22	128.25	120.31
1	8E	57	ASN	C-N-CA	5.22	128.25	120.31
1	8U	150	ILE	O-C-N	-5.22	116.80	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	12	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	8W	66	MET	CA-C-N	5.22	127.28	120.28
1	8W	66	MET	C-N-CA	5.22	127.28	120.28
1	9e	173	ARG	N-CA-C	5.22	117.65	111.33
1	9j	97	ARG	CB-CA-C	5.22	120.82	110.42
1	9l	185	MET	CG-SD-CE	-5.22	89.41	100.90
1	9q	112	GLN	CA-C-O	5.22	126.09	120.55
1	9z	66	MET	CA-C-N	5.22	127.71	120.29
1	9z	66	MET	C-N-CA	5.22	127.71	120.29
1	9H	82	ARG	CA-C-N	5.22	128.05	120.79
1	9H	82	ARG	C-N-CA	5.22	128.05	120.79
1	9J	97	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	9M	2	ILE	CA-C-O	-5.22	114.94	120.48
1	9S	221	VAL	N-CA-C	5.22	115.84	110.36
1	a9	84	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	af	62	HIS	CB-CG-ND1	-5.22	114.86	122.70
1	ai	142	VAL	N-CA-C	5.22	116.58	110.62
1	al	179	GLN	N-CA-C	5.22	116.97	111.28
1	am	178	SER	N-CA-C	5.22	117.45	110.35
1	aS	17	PRO	CA-C-N	5.22	127.71	120.29
1	aS	17	PRO	C-N-CA	5.22	127.71	120.29
1	aS	188	THR	CA-CB-OG1	5.22	117.44	109.60
1	aX	114	GLN	CA-C-N	5.22	127.62	120.46
1	aX	114	GLN	C-N-CA	5.22	127.62	120.46
1	b4	172	LEU	N-CA-C	5.22	117.88	111.82
1	ba	21	ASN	CA-C-O	5.22	125.96	120.42
1	bb	69	LEU	N-CA-CB	-5.22	102.44	110.12
1	18	54	THR	CA-CB-OG1	5.22	117.44	109.60
1	bv	133	TRP	CA-C-O	-5.22	115.01	120.55
1	bx	71	GLU	CB-CG-CD	5.22	121.48	112.60
1	1a	98	GLU	O-C-N	-5.22	115.92	121.30
1	bO	38	PRO	N-CA-CB	5.22	108.74	103.25
1	bP	130	TYR	N-CA-C	5.22	117.38	111.11
1	c9	91	ILE	O-C-N	-5.22	116.42	122.17
1	cg	191	VAL	CA-C-O	-5.22	115.12	120.71
1	ck	168	PHE	CA-CB-CG	5.22	119.03	113.80
1	cl	71	GLU	N-CA-CB	-5.22	102.17	110.22
1	cp	83	LEU	CA-C-N	5.22	127.91	120.49
1	cp	83	LEU	C-N-CA	5.22	127.91	120.49
1	cp	111	LEU	N-CA-C	5.22	116.97	111.28
1	cy	17	PRO	CA-C-N	5.22	127.28	120.28
1	cy	17	PRO	C-N-CA	5.22	127.28	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1g	108	THR	CA-C-O	5.22	125.76	119.59
1	cK	187	GLU	CA-C-N	5.22	127.91	121.64
1	cK	187	GLU	C-N-CA	5.22	127.91	121.64
1	cK	191	VAL	CA-C-O	-5.22	114.61	120.25
1	cM	198	CYS	CA-C-N	5.22	127.54	120.38
1	cM	198	CYS	C-N-CA	5.22	127.54	120.38
1	cN	28	GLU	O-C-N	-5.22	116.66	122.09
1	cS	207	PRO	N-CD-CG	5.22	111.04	103.20
1	cX	178	SER	N-CA-CB	5.22	117.69	110.17
1	d0	117	TRP	N-CA-C	-5.22	105.58	111.28
1	d2	80	TRP	CZ3-CH2-CZ2	5.22	128.29	121.50
1	d3	151	LEU	CA-C-O	5.22	126.00	120.10
1	de	135	ILE	CA-CB-CG2	-5.22	101.62	110.50
1	dj	130	TYR	CA-C-N	5.22	127.28	120.28
1	dj	130	TYR	C-N-CA	5.22	127.28	120.28
1	dr	170	LYS	N-CA-C	5.22	116.66	111.07
1	du	158	LYS	N-CA-C	-5.22	106.22	112.59
1	dA	93	PRO	CB-CA-C	5.22	117.81	110.60
1	dA	113	GLU	CA-C-N	5.22	128.25	120.31
1	dA	113	GLU	C-N-CA	5.22	128.25	120.31
1	1n	120	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	dS	182	LYS	N-CA-CB	5.22	117.80	110.12
1	e9	180	GLU	CA-C-N	5.22	127.14	120.56
1	e9	180	GLU	C-N-CA	5.22	127.14	120.56
1	ef	221	VAL	N-CA-CB	5.22	118.91	110.13
1	eg	171	THR	OG1-CB-CG2	-5.22	98.85	109.30
1	ek	49	PRO	CA-C-N	5.22	127.23	120.44
1	ek	49	PRO	C-N-CA	5.22	127.23	120.44
1	el	203	LYS	CA-C-O	-5.22	115.01	120.55
1	ew	132	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	ex	123	PRO	CA-C-N	-5.22	118.83	122.59
1	ex	123	PRO	C-N-CA	-5.22	118.83	122.59
1	eM	199	LYS	N-CA-C	5.22	116.97	111.28
1	eO	106	GLY	CA-C-O	5.22	125.50	119.13
1	eS	12	HIS	O-C-N	-5.22	117.08	123.19
1	1u	103	ASP	CA-C-N	5.22	127.14	120.56
1	1u	103	ASP	C-N-CA	5.22	127.14	120.56
1	1u	124	ILE	CB-CA-C	5.22	116.00	110.88
1	1u	211	LEU	N-CA-CB	-5.22	102.17	110.22
1	f3	145	TYR	O-C-N	-5.22	115.65	122.39
1	f5	230	VAL	N-CA-CB	5.22	116.62	110.82
1	f6	146	SER	O-C-N	-5.22	115.92	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fa	36	VAL	CB-CA-C	-5.22	103.80	112.26
1	fb	207	PRO	CA-C-N	5.22	131.14	122.73
1	fb	207	PRO	C-N-CA	5.22	131.14	122.73
1	1w	28	GLU	N-CA-C	5.22	116.66	111.07
1	fr	81	ASP	CB-CA-C	-5.22	102.12	110.79
1	1x	100	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	1x	139	ASN	CA-C-N	5.22	128.25	120.31
1	1x	139	ASN	C-N-CA	5.22	128.25	120.31
1	fu	125	PRO	N-CA-CB	-5.22	97.77	103.25
1	fA	85	PRO	CA-C-O	-5.22	115.62	121.32
1	fA	184	TRP	CA-C-N	5.22	127.28	120.28
1	fA	184	TRP	C-N-CA	5.22	127.28	120.28
1	1y	141	ILE	CA-C-N	5.22	127.14	120.56
1	1y	141	ILE	C-N-CA	5.22	127.14	120.56
1	fK	201	ILE	CA-C-N	5.22	127.28	120.28
1	fK	201	ILE	C-N-CA	5.22	127.28	120.28
1	fM	110	THR	O-C-N	-5.22	116.70	122.86
1	1B	152	ASP	CA-CB-CG	-5.22	107.38	112.60
1	a	10	MET	CG-SD-CE	-5.22	89.41	100.90
1	f	5	ASN	CA-C-O	-5.22	114.26	120.43
1	j	34	PRO	CA-C-O	-5.22	112.96	118.92
1	j	166	ASP	CA-C-N	5.22	127.28	120.28
1	j	166	ASP	C-N-CA	5.22	127.28	120.28
1	u	141	ILE	CA-CB-CG1	5.22	119.28	110.40
1	x	68	MET	N-CA-CB	5.22	117.89	110.16
1	C	100	ARG	CA-C-N	5.22	125.88	120.03
1	C	100	ARG	C-N-CA	5.22	125.88	120.03
1	D	92	GLU	CA-C-N	5.22	126.37	119.84
1	D	92	GLU	C-N-CA	5.22	126.37	119.84
1	3	125	PRO	N-CD-CG	5.22	111.04	103.20
1	E	159	GLU	CB-CG-CD	5.22	121.48	112.60
1	F	64	ALA	CA-C-N	5.22	127.55	120.44
1	F	64	ALA	C-N-CA	5.22	127.55	120.44
1	V	165	VAL	CA-C-O	5.22	126.39	120.85
1	g9	143	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	gc	15	ILE	N-CA-C	5.22	120.20	109.34
1	gr	165	VAL	N-CA-C	-5.22	105.29	110.62
1	gr	200	THR	CB-CA-C	-5.22	102.68	110.88
1	gs	197	ASP	CA-C-O	5.22	125.71	119.60
1	gu	39	MET	CA-C-N	5.22	129.49	121.19
1	gu	39	MET	C-N-CA	5.22	129.49	121.19
1	gv	133	TRP	CB-CG-CD2	-5.22	119.49	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gx	188	THR	N-CA-CB	5.22	119.31	110.49
1	gF	132	ARG	O-C-N	-5.22	116.58	122.12
1	gG	62	HIS	ND1-CG-CD2	5.22	111.32	106.10
1	gJ	33	SER	N-CA-C	-5.22	103.42	108.07
1	gL	181	VAL	CA-C-O	5.22	126.39	120.85
1	1F	34	PRO	N-CA-C	5.22	123.23	112.47
1	gN	212	GLU	CA-C-N	5.22	127.28	120.28
1	gN	212	GLU	C-N-CA	5.22	127.28	120.28
1	gP	191	VAL	CG1-CB-CG2	-5.22	99.31	110.80
1	gQ	86	VAL	N-CA-C	5.22	116.76	109.55
1	gR	223	GLY	O-C-N	5.22	126.99	121.77
1	gZ	178	SER	N-CA-C	5.22	117.86	110.50
1	hh	105	ALA	CA-C-O	5.22	125.80	119.38
1	hs	159	GLU	CB-CA-C	-5.22	101.20	109.82
1	hw	191	VAL	CA-C-O	5.22	125.81	119.54
1	1L	100	ARG	CA-C-O	-5.22	115.46	121.47
1	hM	142	VAL	O-C-N	-5.22	116.72	121.94
1	i2	150	ILE	N-CA-C	5.22	115.95	110.62
1	i7	132	ARG	CG-CD-NE	-5.22	100.51	112.00
1	1O	87	HIS	N-CA-C	5.22	121.92	110.80
1	ij	162	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	ik	184	TRP	CG-CD1-NE1	-5.22	103.41	110.20
1	is	180	GLU	N-CA-C	5.22	117.72	111.71
1	it	60	GLY	CA-C-N	5.22	128.82	121.30
1	it	60	GLY	C-N-CA	5.22	128.82	121.30
1	iD	204	ALA	N-CA-C	5.22	116.97	111.28
1	iE	148	THR	N-CA-C	5.22	117.68	108.75
1	iQ	183	ASN	CA-C-O	5.22	126.08	120.55
1	iZ	163	ASP	O-C-N	-5.22	116.69	122.07
1	j1	62	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	j3	33	SER	O-C-N	5.22	125.46	121.65
1	j3	88	ALA	O-C-N	5.22	127.73	122.09
1	j4	214	MET	N-CA-C	5.22	116.97	111.28
1	j9	28	GLU	N-CA-C	5.22	117.38	111.11
1	ja	164	TYR	N-CA-CB	5.22	117.58	110.01
1	1U	97	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	jo	87	HIS	CA-C-O	-5.22	115.10	121.05
1	ju	26	VAL	CA-CB-CG2	-5.22	101.52	110.40
1	ju	182	LYS	N-CA-C	5.22	116.97	111.28
1	1W	72	THR	OG1-CB-CG2	-5.22	98.86	109.30
1	jN	222	GLY	CA-C-N	5.22	130.07	121.87
1	jN	222	GLY	C-N-CA	5.22	130.07	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1Y	31	ALA	CB-CA-C	5.22	120.81	110.42
1	jR	101	GLY	CA-C-O	-5.22	114.56	120.30
1	jW	48	THR	N-CA-CB	5.22	117.73	110.11
1	1Z	32	PHE	N-CA-C	5.22	119.36	113.15
1	k8	191	VAL	CA-C-O	5.22	126.39	120.85
1	kb	143	ARG	NH1-CZ-NH2	5.22	126.09	119.30
1	kk	137	GLY	N-CA-C	5.22	119.00	112.73
1	kr	73	ILE	N-CA-C	5.22	115.66	110.23
1	kD	18	ARG	O-C-N	-5.22	116.69	122.07
1	23	172	LEU	CB-CA-C	-5.22	102.97	111.06
1	kI	61	GLY	CA-C-N	5.22	129.55	122.19
1	kI	61	GLY	C-N-CA	5.22	129.55	122.19
1	kM	124	ILE	CA-C-N	5.22	128.96	121.91
1	kM	124	ILE	C-N-CA	5.22	128.96	121.91
1	l9	142	VAL	N-CA-C	5.22	115.95	110.62
1	lc	194	ALA	CA-C-N	5.22	130.38	121.35
1	lc	194	ALA	C-N-CA	5.22	130.38	121.35
1	ln	155	GLN	O-C-N	-5.22	116.03	122.82
1	lo	79	GLU	CA-C-N	5.22	127.59	120.54
1	lo	79	GLU	C-N-CA	5.22	127.59	120.54
1	lo	88	ALA	CA-C-O	5.22	125.64	119.48
1	lp	28	GLU	N-CA-C	5.22	117.05	111.36
1	ls	167	ARG	N-CA-C	5.22	116.97	111.28
1	lF	20	LEU	CB-CA-C	-5.22	101.14	110.70
1	lK	43	LEU	N-CA-C	-5.22	106.75	113.23
1	lP	167	ARG	CD-NE-CZ	5.22	131.71	124.40
1	2f	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	2p	105	ALA	O-C-N	5.22	128.69	122.27
1	2p	182	LYS	CA-C-N	5.22	127.23	120.44
1	2p	182	LYS	C-N-CA	5.22	127.23	120.44
1	2t	4	GLN	CB-CG-CD	5.22	121.48	112.60
1	2A	227	LYS	N-CA-C	-5.22	106.77	112.72
1	2C	35	GLU	N-CA-C	5.22	117.72	111.71
1	2C	54	THR	CA-C-N	5.22	127.28	120.28
1	2C	54	THR	C-N-CA	5.22	127.28	120.28
1	2H	32	PHE	N-CA-C	5.22	118.53	111.17
1	2K	40	PHE	N-CA-CB	-5.22	102.44	110.01
1	2K	194	ALA	O-C-N	-5.22	116.23	122.65
1	2S	18	ARG	CA-C-N	5.22	127.23	120.44
1	2S	18	ARG	C-N-CA	5.22	127.23	120.44
1	2T	9	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	2Z	35	GLU	CA-C-N	5.22	128.91	121.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2Z	35	GLU	C-N-CA	5.22	128.91	121.02
1	30	91	ILE	CB-CA-C	-5.22	105.85	111.59
1	35	163	ASP	N-CA-CB	-5.22	102.23	110.06
1	3o	192	GLN	CA-C-O	5.22	125.80	119.38
1	3s	219	GLN	CA-C-O	5.22	127.88	121.72
1	3w	199	LYS	N-CA-CB	-5.22	102.44	110.12
1	3N	11	VAL	O-C-N	-5.22	117.75	123.18
1	3N	92	GLU	O-C-N	-5.22	115.83	120.48
1	3V	200	THR	CB-CA-C	5.22	119.46	110.79
1	3X	222	GLY	CA-C-O	-5.22	113.87	119.82
1	45	198	CYS	CA-C-N	5.22	127.28	120.28
1	45	198	CYS	C-N-CA	5.22	127.28	120.28
1	45	205	LEU	CA-C-N	5.22	130.07	121.87
1	45	205	LEU	C-N-CA	5.22	130.07	121.87
1	4f	167	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	4g	161	PHE	N-CA-C	5.22	116.66	111.07
1	4h	121	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	4k	15	ILE	CB-CA-C	5.22	119.84	111.69
1	4r	179	GLN	N-CA-CB	5.22	117.98	110.20
1	4u	39	MET	N-CA-C	5.22	116.97	111.28
1	4u	131	LYS	CA-C-O	5.22	126.49	120.90
1	4w	199	LYS	N-CA-C	5.22	117.65	111.33
1	4y	149	SER	CA-C-N	5.22	128.87	120.30
1	4y	149	SER	C-N-CA	5.22	128.87	120.30
1	4C	13	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	4E	225	GLY	CA-C-O	-5.22	117.16	122.59
1	4F	72	THR	CA-C-N	5.22	127.83	120.42
1	4F	72	THR	C-N-CA	5.22	127.83	120.42
1	4H	88	ALA	O-C-N	-5.22	116.52	122.89
1	4M	187	GLU	N-CA-C	5.22	119.71	112.45
1	4N	137	GLY	N-CA-C	5.22	119.00	112.73
1	4R	106	GLY	O-C-N	-5.22	116.22	122.33
1	4U	13	GLN	O-C-N	-5.22	117.21	123.27
1	55	28	GLU	CB-CG-CD	5.22	121.48	112.60
1	55	172	LEU	CA-C-O	5.22	125.75	119.59
1	5i	33	SER	CA-C-N	5.22	124.85	119.05
1	5i	33	SER	C-N-CA	5.22	124.85	119.05
1	5C	84	HIS	CB-CA-C	-5.22	102.89	109.31
1	6o	113	GLU	O-C-N	-5.22	116.58	122.12
1	6q	193	ASN	CA-CB-CG	-5.22	107.38	112.60
1	6v	148	THR	CA-C-N	5.22	131.51	121.54
1	6v	148	THR	C-N-CA	5.22	131.51	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6O	214	MET	N-CA-CB	5.22	117.80	110.12
1	6R	105	ALA	CA-C-O	5.22	125.75	119.43
1	6Z	143	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	7n	132	ARG	CA-C-N	5.22	127.28	120.28
1	7n	132	ARG	C-N-CA	5.22	127.28	120.28
1	7q	129	ILE	CB-CA-C	-5.22	105.09	112.14
1	7I	81	ASP	CA-CB-CG	-5.22	107.38	112.60
1	7I	193	ASN	CB-CA-C	5.22	119.39	110.56
1	7P	162	ARG	N-CA-C	5.22	116.97	111.28
1	7T	61	GLY	N-CA-C	5.22	120.61	112.31
1	7T	162	ARG	N-CA-C	5.22	116.97	111.28
1	7V	222	GLY	O-C-N	-5.22	116.09	122.30
1	7W	23	TRP	O-C-N	5.22	127.66	122.12
1	7Y	96	MET	CG-SD-CE	-5.22	89.41	100.90
1	81	72	THR	CA-CB-CG2	5.22	119.38	110.50
1	82	112	GLN	N-CA-CB	5.22	117.80	110.12
1	84	22	ALA	N-CA-C	5.22	116.97	111.28
1	8g	195	ASN	CA-C-N	5.22	125.27	119.32
1	8g	195	ASN	C-N-CA	5.22	125.27	119.32
1	8j	169	TYR	CA-C-N	5.22	127.28	120.28
1	8j	169	TYR	C-N-CA	5.22	127.28	120.28
1	8l	166	ASP	N-CA-C	5.22	117.05	111.36
1	8l	179	GLN	OE1-CD-NE2	5.22	127.82	122.60
1	8y	191	VAL	N-CA-CB	-5.22	104.44	110.55
1	8D	38	PRO	CA-C-N	5.22	127.23	120.44
1	8D	38	PRO	C-N-CA	5.22	127.23	120.44
1	8D	91	ILE	N-CA-C	5.22	116.10	108.58
1	8W	58	THR	CA-C-O	5.22	125.80	119.11
1	92	145	TYR	CA-C-N	5.22	128.59	120.60
1	92	145	TYR	C-N-CA	5.22	128.59	120.60
1	94	121	ASN	CA-C-O	-5.22	115.52	119.59
1	97	74	ASN	O-C-N	-5.22	116.11	122.22
1	9b	4	GLN	CA-C-O	5.22	126.94	121.19
1	9b	37	ILE	CA-C-O	-5.22	112.95	119.95
1	9k	153	ILE	O-C-N	-5.22	116.57	122.94
1	9m	207	PRO	CA-C-N	5.22	128.25	120.31
1	9m	207	PRO	C-N-CA	5.22	128.25	120.31
1	9J	22	ALA	N-CA-C	-5.22	105.76	111.82
1	9O	49	PRO	N-CA-CB	5.22	109.03	103.39
1	aa	134	ILE	CA-C-O	-5.22	115.63	121.17
1	ac	166	ASP	N-CA-CB	-5.22	102.44	110.01
1	an	40	PHE	CB-CA-C	5.22	119.17	110.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aq	120	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	at	163	ASP	CA-C-N	-5.22	113.28	120.28
1	at	163	ASP	C-N-CA	-5.22	113.28	120.28
1	ay	230	VAL	O-C-N	-5.22	117.62	123.26
1	13	64	ALA	CA-C-O	5.22	125.96	120.42
1	aO	82	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	aW	100	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	b1	160	PRO	CA-C-N	5.22	131.52	121.54
1	b1	160	PRO	C-N-CA	5.22	131.52	121.54
1	b2	48	THR	CA-C-O	-5.22	115.27	120.96
1	b5	162	ARG	CA-C-N	5.22	127.28	120.28
1	b5	162	ARG	C-N-CA	5.22	127.28	120.28
1	b8	4	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	ba	110	THR	CA-C-N	5.22	127.28	120.28
1	ba	110	THR	C-N-CA	5.22	127.28	120.28
1	bm	104	ILE	O-C-N	-5.22	115.90	121.80
1	bA	82	ARG	CA-C-O	5.22	125.10	119.15
1	bG	137	GLY	N-CA-C	-5.22	106.44	112.50
1	bY	191	VAL	N-CA-CB	5.22	117.26	110.57
1	bZ	25	LYS	CA-C-N	5.22	127.34	120.60
1	bZ	25	LYS	C-N-CA	5.22	127.34	120.60
1	c0	132	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	c5	16	SER	O-C-N	-5.22	114.54	121.64
1	c5	148	THR	CA-C-N	5.22	128.64	120.75
1	c5	148	THR	C-N-CA	5.22	128.64	120.75
1	cf	100	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	cf	161	PHE	CB-CG-CD1	5.22	129.58	120.70
1	cp	12	HIS	CB-CG-CD2	-5.22	124.41	131.20
1	1e	34	PRO	CA-N-CD	-5.22	104.69	112.00
1	cq	131	LYS	N-CA-CB	-5.22	102.44	110.12
1	1f	215	MET	CA-C-N	5.22	130.85	122.86
1	1f	215	MET	C-N-CA	5.22	130.85	122.86
1	cA	162	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	cK	144	MET	N-CA-C	5.22	116.66	111.07
1	cK	229	ARG	CB-CA-C	5.22	118.50	110.14
1	cL	42	ALA	N-CA-CB	-5.22	102.50	110.07
1	cO	134	ILE	N-CA-CB	5.22	116.66	110.55
1	cP	148	THR	O-C-N	-5.22	117.02	123.44
1	cY	187	GLU	CA-C-N	5.22	128.66	122.44
1	cY	187	GLU	C-N-CA	5.22	128.66	122.44
1	d0	167	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	d2	33	SER	CA-C-N	5.22	125.68	120.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d2	33	SER	C-N-CA	5.22	125.68	120.04
1	1i	183	ASN	N-CA-C	5.22	117.88	111.82
1	d6	73	ILE	CA-C-N	5.22	127.28	120.28
1	d6	73	ILE	C-N-CA	5.22	127.28	120.28
1	dp	192	GLN	N-CA-C	5.22	116.97	111.28
1	dr	205	LEU	CA-C-N	5.22	130.07	121.87
1	dr	205	LEU	C-N-CA	5.22	130.07	121.87
1	dD	89	GLY	CA-C-O	-5.22	116.14	121.62
1	dE	180	GLU	O-C-N	-5.22	116.58	122.12
1	dE	215	MET	N-CA-C	5.22	118.75	112.38
1	dI	15	ILE	CA-C-N	5.22	127.65	120.39
1	dI	15	ILE	C-N-CA	5.22	127.65	120.39
1	dQ	54	THR	CA-C-O	-5.22	115.34	120.82
1	dQ	86	VAL	CA-C-O	-5.22	115.64	121.23
1	dR	140	LYS	CA-C-N	5.22	127.34	120.60
1	dR	140	LYS	C-N-CA	5.22	127.34	120.60
1	dT	87	HIS	O-C-N	-5.22	117.09	123.10
1	e1	37	ILE	CA-C-O	-5.22	115.19	118.69
1	e6	139	ASN	N-CA-C	5.22	116.97	111.28
1	ea	84	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	eg	168	PHE	CA-C-O	-5.22	115.34	120.82
1	en	115	ILE	CA-C-N	5.22	125.74	120.00
1	en	115	ILE	C-N-CA	5.22	125.74	120.00
1	es	16	SER	N-CA-C	5.22	116.41	109.93
1	ey	42	ALA	N-CA-C	5.22	116.66	111.07
1	eH	48	THR	N-CA-CB	5.22	117.73	110.11
1	eJ	218	CYS	CB-CA-C	-5.22	102.54	111.26
1	eL	160	PRO	CA-C-N	5.22	131.51	121.54
1	eL	160	PRO	C-N-CA	5.22	131.51	121.54
1	eM	28	GLU	N-CA-C	5.22	116.66	111.07
1	eN	48	THR	CA-C-N	5.22	125.03	119.28
1	eN	48	THR	C-N-CA	5.22	125.03	119.28
1	eN	143	ARG	CA-C-N	5.22	127.23	120.44
1	eN	143	ARG	C-N-CA	5.22	127.23	120.44
1	eS	45	GLU	CB-CA-C	5.22	118.25	109.89
1	eU	75	GLU	O-C-N	-5.22	116.58	122.12
1	1u	135	ILE	CA-C-N	5.22	127.28	120.28
1	1u	135	ILE	C-N-CA	5.22	127.28	120.28
1	f3	70	LYS	CB-CA-C	5.22	119.46	110.79
1	f5	164	TYR	CB-CG-CD2	5.22	128.63	120.80
1	1w	181	VAL	CB-CA-C	-5.22	105.28	111.97
1	fC	217	ALA	CA-C-O	5.22	127.98	120.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fD	87	HIS	CA-CB-CG	5.22	119.02	113.80
1	fK	1	PRO	CA-C-N	5.22	129.01	121.18
1	fK	1	PRO	C-N-CA	5.22	129.01	121.18
1	fR	64	ALA	CA-C-N	5.22	127.71	120.29
1	fR	64	ALA	C-N-CA	5.22	127.71	120.29
1	g	168	PHE	CB-CA-C	5.22	119.08	110.88
1	h	79	GLU	CA-C-N	5.22	127.23	120.44
1	h	79	GLU	C-N-CA	5.22	127.23	120.44
1	i	139	ASN	N-CA-CB	-5.22	102.44	110.01
1	2	173	ARG	CD-NE-CZ	5.22	131.71	124.40
1	D	105	ALA	N-CA-CB	-5.22	101.96	110.42
1	N	54	THR	N-CA-CB	5.22	117.58	110.01
1	T	108	THR	CB-CA-C	-5.22	102.72	111.13
1	V	48	THR	CA-CB-OG1	5.22	117.43	109.60
1	gk	113	GLU	N-CA-C	5.22	116.66	111.07
1	gp	130	TYR	N-CA-C	5.22	117.05	111.36
1	gE	58	THR	CA-C-N	5.22	127.14	120.56
1	gE	58	THR	C-N-CA	5.22	127.14	120.56
1	gZ	184	TRP	CG-CD1-NE1	-5.22	103.41	110.20
1	hb	205	LEU	CA-C-N	5.22	130.07	121.87
1	hb	205	LEU	C-N-CA	5.22	130.07	121.87
1	1I	114	GLN	O-C-N	-5.22	116.69	122.07
1	hr	57	ASN	CB-CG-ND2	-5.22	108.57	116.40
1	hs	44	SER	N-CA-C	5.22	118.67	112.72
1	hy	86	VAL	N-CA-C	5.22	116.10	108.58
1	1K	134	ILE	CB-CA-C	-5.22	105.24	112.24
1	hF	135	ILE	O-C-N	-5.22	116.81	121.87
1	hM	14	ALA	O-C-N	-5.22	116.60	122.97
1	ib	132	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	iN	184	TRP	N-CA-C	5.22	116.66	111.07
1	iO	29	GLU	CA-C-O	5.22	126.03	120.24
1	iO	120	HIS	N-CA-C	5.22	121.92	110.80
1	iW	36	VAL	CA-C-N	5.22	124.51	120.33
1	iW	36	VAL	C-N-CA	5.22	124.51	120.33
1	1T	153	ILE	O-C-N	-5.22	117.07	122.66
1	j4	76	GLU	CA-C-N	5.22	127.28	120.28
1	j4	76	GLU	C-N-CA	5.22	127.28	120.28
1	jb	95	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	jl	143	ARG	N-CA-C	5.22	119.93	111.37
1	jn	100	ARG	CB-CG-CD	5.22	123.31	111.30
1	jr	34	PRO	N-CD-CG	5.22	111.03	103.20
1	jt	175	GLU	O-C-N	-5.22	117.37	123.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jw	176	GLN	N-CA-CB	-5.22	103.43	110.95
1	jB	39	MET	O-C-N	-5.22	116.59	122.12
1	jM	186	THR	CA-CB-OG1	5.22	117.43	109.60
1	jT	120	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	k2	163	ASP	CB-CA-C	-5.22	102.12	110.79
1	kf	82	ARG	CA-C-N	5.22	127.23	120.44
1	kf	82	ARG	C-N-CA	5.22	127.23	120.44
1	kz	44	SER	CA-C-N	5.22	128.76	121.24
1	kz	44	SER	C-N-CA	5.22	128.76	121.24
1	23	91	ILE	N-CA-C	5.22	116.98	109.51
1	23	216	THR	N-CA-C	5.22	117.71	111.71
1	kL	178	SER	CA-C-N	5.22	127.53	120.38
1	kL	178	SER	C-N-CA	5.22	127.53	120.38
1	24	46	GLY	CA-C-N	5.22	128.18	120.82
1	24	46	GLY	C-N-CA	5.22	128.18	120.82
1	l3	76	GLU	CA-C-N	-5.22	112.37	120.31
1	l3	76	GLU	C-N-CA	-5.22	112.37	120.31
1	ll	78	ALA	CA-C-N	5.22	127.28	120.28
1	ll	78	ALA	C-N-CA	5.22	127.28	120.28
1	lv	80	TRP	N-CA-C	5.22	116.97	111.28
1	lF	105	ALA	N-CA-C	-5.22	106.88	113.20
1	lR	11	VAL	CA-CB-CG2	-5.22	101.53	110.40
1	2u	223	GLY	O-C-N	-5.22	116.55	121.77
1	2z	150	ILE	N-CA-C	5.22	119.41	111.89
1	2C	214	MET	N-CA-C	5.22	116.97	111.28
1	2E	117	TRP	N-CA-C	5.22	116.66	111.07
1	2S	23	TRP	CE2-CD2-CE3	-5.22	113.58	118.80
1	3s	139	ASN	CA-CB-CG	-5.22	107.38	112.60
1	3w	198	CYS	CA-C-O	5.22	126.30	120.82
1	3N	60	GLY	CA-C-N	5.22	128.82	121.30
1	3N	60	GLY	C-N-CA	5.22	128.82	121.30
1	3N	160	PRO	N-CA-C	5.22	119.43	111.34
1	3N	171	THR	CA-C-N	5.22	131.76	121.58
1	3N	171	THR	C-N-CA	5.22	131.76	121.58
1	4a	229	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	4g	18	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	4p	92	GLU	N-CA-C	5.22	121.35	109.81
1	4q	138	LEU	N-CA-C	-5.22	105.67	111.36
1	4Y	54	THR	CA-C-N	5.22	127.70	120.29
1	4Y	54	THR	C-N-CA	5.22	127.70	120.29
1	4Y	124	ILE	CA-CB-CG1	5.22	119.28	110.40
1	5q	206	GLY	CA-C-N	5.22	124.54	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5q	206	GLY	C-N-CA	5.22	124.54	118.85
1	62	164	TYR	CG-CD2-CE2	-5.22	113.37	121.20
1	64	188	THR	O-C-N	-5.22	115.13	121.92
1	6i	180	GLU	O-C-N	5.22	129.43	122.43
1	6q	117	TRP	CB-CG-CD1	-5.22	119.07	126.90
1	6A	173	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	6I	150	ILE	CA-C-O	5.22	126.37	119.53
1	6L	92	GLU	CB-CA-C	-5.22	101.30	109.08
1	6L	142	VAL	CA-C-O	5.22	126.48	121.05
1	6Z	73	ILE	O-C-N	-5.22	116.60	121.87
1	73	151	LEU	CA-C-N	5.22	127.28	120.28
1	73	151	LEU	C-N-CA	5.22	127.28	120.28
1	7o	82	ARG	CA-C-N	5.22	127.28	120.28
1	7o	82	ARG	C-N-CA	5.22	127.28	120.28
1	7X	130	TYR	CB-CA-C	5.22	120.29	110.63
1	84	29	GLU	N-CA-C	5.22	116.66	111.07
1	8c	85	PRO	N-CA-C	5.22	119.77	111.26
1	8o	135	ILE	O-C-N	-5.22	116.79	121.91
1	8u	35	GLU	N-CA-CB	-5.22	101.67	110.49
1	8H	132	ARG	CA-C-N	5.22	127.23	120.44
1	8H	132	ARG	C-N-CA	5.22	127.23	120.44
1	8K	150	ILE	CA-C-N	5.22	128.00	120.38
1	8K	150	ILE	C-N-CA	5.22	128.00	120.38
1	90	162	ARG	CB-CA-C	5.22	119.08	110.88
1	91	48	THR	CA-CB-CG2	5.22	119.38	110.50
1	98	133	TRP	CD2-CE2-CZ2	5.22	127.62	122.40
1	9f	101	GLY	CA-C-N	5.22	127.28	120.28
1	9f	101	GLY	C-N-CA	5.22	127.28	120.28
1	9z	172	LEU	CB-CA-C	5.22	119.08	110.88
1	9J	130	TYR	N-CA-CB	-5.22	102.44	110.12
1	9Y	199	LYS	O-C-N	-5.22	116.59	122.12
1	Z	3	VAL	CA-CB-CG1	5.22	119.28	110.40
1	a4	59	VAL	O-C-N	5.22	127.21	121.83
1	a5	183	ASN	CB-CA-C	-5.22	102.12	110.79
1	am	216	THR	O-C-N	-5.22	115.52	122.20
1	ax	178	SER	N-CA-C	5.22	121.92	110.80
1	aD	197	ASP	CA-CB-CG	5.22	117.82	112.60
1	aD	213	GLU	CA-C-N	5.22	127.23	120.44
1	aD	213	GLU	C-N-CA	5.22	127.23	120.44
1	aM	204	ALA	N-CA-CB	-5.22	102.75	110.53
1	bd	12	HIS	N-CA-CB	5.22	117.63	109.85
1	18	26	VAL	CA-CB-CG2	-5.22	101.52	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	18	100	ARG	O-C-N	-5.22	115.29	122.23
1	bH	148	THR	CA-C-O	-5.22	114.53	120.32
1	bY	217	ALA	N-CA-C	-5.22	102.02	110.32
1	c2	82	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	c7	224	PRO	N-CA-C	5.22	123.23	112.47
1	ch	172	LEU	CA-C-O	5.22	125.97	119.97
1	cp	170	LYS	O-C-N	-5.22	116.59	122.12
1	ct	195	ASN	CA-C-N	5.22	126.37	119.84
1	ct	195	ASN	C-N-CA	5.22	126.37	119.84
1	cF	32	PHE	N-CA-CB	5.22	119.31	110.49
1	cZ	125	PRO	CA-C-N	5.22	127.61	120.46
1	cZ	125	PRO	C-N-CA	5.22	127.61	120.46
1	df	200	THR	N-CA-C	5.22	116.97	111.28
1	du	108	THR	CA-CB-OG1	5.22	117.43	109.60
1	dv	32	PHE	CA-C-O	5.22	126.48	120.84
1	dE	138	LEU	O-C-N	5.22	127.73	122.09
1	e6	187	GLU	N-CA-CB	-5.22	102.75	110.53
1	ec	140	LYS	CA-C-O	5.22	126.08	120.55
1	1q	164	TYR	CA-C-O	-5.22	115.33	121.07
1	1s	185	MET	N-CA-CB	5.22	118.37	110.28
1	fs	24	VAL	O-C-N	-5.22	116.45	121.83
1	fz	98	GLU	CA-C-N	5.22	125.38	119.90
1	fz	98	GLU	C-N-CA	5.22	125.38	119.90
1	fK	154	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	fP	228	ALA	CA-C-N	5.22	128.12	120.71
1	fP	228	ALA	C-N-CA	5.22	128.12	120.71
1	g0	145	TYR	CB-CG-CD1	-5.22	112.97	120.80
1	1B	53	ASN	N-CA-C	5.22	116.97	111.28
1	t	171	THR	O-C-N	-5.22	116.58	122.12
1	2	181	VAL	CG1-CB-CG2	-5.22	99.31	110.80
1	z	69	LEU	CA-C-O	5.22	125.97	119.97
1	D	85	PRO	CA-C-N	5.22	129.11	121.80
1	D	85	PRO	C-N-CA	5.22	129.11	121.80
1	6	159	GLU	O-C-N	-5.22	116.87	121.31
1	g8	87	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	1C	162	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	gI	123	PRO	CA-C-N	-5.22	118.83	122.59
1	gI	123	PRO	C-N-CA	-5.22	118.83	122.59
1	gM	84	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	hg	132	ARG	N-CA-C	5.22	116.97	111.28
1	hh	73	ILE	CB-CA-C	-5.22	105.09	112.14
1	ho	197	ASP	CA-CB-CG	5.22	117.82	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1J	31	ALA	N-CA-C	5.22	121.92	110.80
1	hy	115	ILE	N-CA-CB	5.22	117.64	110.54
1	hE	55	MET	N-CA-C	5.22	117.05	111.36
1	hG	197	ASP	N-CA-C	5.22	117.37	111.11
1	hP	18	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	i5	159	GLU	CA-C-O	-5.22	114.74	120.17
1	i6	193	ASN	CA-CB-CG	5.22	117.82	112.60
1	im	13	GLN	CG-CD-OE1	5.22	131.24	120.80
1	iq	137	GLY	CA-C-N	5.22	127.27	120.28
1	iq	137	GLY	C-N-CA	5.22	127.27	120.28
1	iu	160	PRO	CA-C-N	5.22	129.55	120.68
1	iu	160	PRO	C-N-CA	5.22	129.55	120.68
1	iD	5	ASN	CA-C-N	5.22	128.00	120.38
1	iD	5	ASN	C-N-CA	5.22	128.00	120.38
1	iE	164	TYR	N-CA-C	5.22	117.37	111.11
1	iG	37	ILE	CB-CA-C	-5.22	107.16	114.00
1	iG	213	GLU	N-CA-C	5.22	116.66	111.07
1	iS	25	LYS	CB-CA-C	5.22	119.45	110.79
1	iT	25	LYS	CB-CA-C	5.22	119.72	110.85
1	iT	74	ASN	CA-C-N	5.22	127.28	120.28
1	iT	74	ASN	C-N-CA	5.22	127.28	120.28
1	iT	145	TYR	CB-CG-CD2	-5.22	112.97	120.80
1	j6	31	ALA	O-C-N	-5.22	115.65	122.59
1	ja	87	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	ja	148	THR	CA-CB-OG1	5.22	117.43	109.60
1	jg	124	ILE	O-C-N	-5.22	117.39	121.46
1	jp	114	GLN	O-C-N	-5.22	116.20	122.15
1	jt	97	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	jx	35	GLU	O-C-N	-5.22	115.26	122.46
1	1Y	133	TRP	CA-C-N	5.22	127.61	120.46
1	1Y	133	TRP	C-N-CA	5.22	127.61	120.46
1	jR	213	GLU	CB-CG-CD	-5.22	103.73	112.60
1	jT	205	LEU	CB-CA-C	-5.22	102.13	110.79
1	k6	170	LYS	CA-C-N	5.22	127.23	120.44
1	k6	170	LYS	C-N-CA	5.22	127.23	120.44
1	kd	90	PRO	O-C-N	-5.22	115.59	122.64
1	ke	167	ARG	NH1-CZ-NH2	-5.22	112.51	119.30
1	kk	161	PHE	CG-CD2-CE2	5.22	129.57	120.70
1	kq	14	ALA	N-CA-C	5.22	117.60	110.24
1	kq	102	SER	N-CA-C	5.22	117.05	111.36
1	kw	190	LEU	N-CA-CB	-5.22	102.45	110.12
1	kA	37	ILE	N-CA-C	5.22	118.61	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kE	19	THR	O-C-N	-5.22	116.20	122.15
1	kF	211	LEU	CA-C-N	5.22	127.53	120.38
1	kF	211	LEU	C-N-CA	5.22	127.53	120.38
1	kN	200	THR	CA-CB-CG2	5.22	119.37	110.50
1	kU	64	ALA	CA-C-O	5.22	126.08	120.70
1	kY	142	VAL	CA-C-N	5.22	127.27	120.28
1	kY	142	VAL	C-N-CA	5.22	127.27	120.28
1	l7	224	PRO	N-CA-C	5.22	119.40	111.15
1	le	55	MET	N-CA-C	5.22	116.97	111.28
1	lf	183	ASN	O-C-N	5.22	127.65	122.12
1	lj	115	ILE	CA-CB-CG1	5.22	119.27	110.40
1	ll	127	GLY	CA-C-N	5.22	127.22	120.44
1	ll	127	GLY	C-N-CA	5.22	127.22	120.44
1	28	58	THR	N-CA-CB	5.22	118.65	110.46
1	lx	82	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	lx	161	PHE	CB-CA-C	5.22	119.72	110.85
1	lE	24	VAL	N-CA-C	5.22	115.94	110.62
1	lK	60	GLY	O-C-N	-5.22	115.91	122.70
1	2c	220	GLY	CA-C-N	5.22	127.14	120.56
1	2c	220	GLY	C-N-CA	5.22	127.14	120.56
1	2e	15	ILE	N-CA-C	5.22	116.42	109.37
1	2f	15	ILE	N-CA-C	5.22	116.42	109.37
1	2k	130	TYR	CA-C-N	5.22	127.27	120.28
1	2k	130	TYR	C-N-CA	5.22	127.27	120.28
1	2q	48	THR	N-CA-C	-5.22	102.56	110.39
1	2t	57	ASN	CB-CG-OD1	5.22	131.24	120.80
1	2w	201	ILE	N-CA-C	5.22	115.43	110.42
1	2x	57	ASN	CA-CB-CG	-5.22	107.38	112.60
1	2x	148	THR	N-CA-C	5.22	117.60	110.24
1	2D	46	GLY	O-C-N	5.22	129.48	122.70
1	2E	81	ASP	O-C-N	-5.22	116.59	122.12
1	2T	168	PHE	CA-CB-CG	5.22	119.02	113.80
1	2W	63	GLN	CA-C-N	-5.22	112.88	120.29
1	2W	63	GLN	C-N-CA	-5.22	112.88	120.29
1	2X	87	HIS	N-CA-C	5.22	117.42	110.53
1	30	90	PRO	CB-CA-C	-5.22	104.71	111.39
1	33	121	ASN	CA-CB-CG	5.22	117.82	112.60
1	3b	132	ARG	CA-C-N	5.22	127.27	120.28
1	3b	132	ARG	C-N-CA	5.22	127.27	120.28
1	3e	89	GLY	CA-C-N	5.22	125.50	119.92
1	3e	89	GLY	C-N-CA	5.22	125.50	119.92
1	3g	164	TYR	O-C-N	-5.22	116.45	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3E	87	HIS	N-CA-CB	5.22	117.84	109.28
1	3F	224	PRO	CB-CA-C	5.22	120.17	111.56
1	3L	166	ASP	CA-CB-CG	-5.22	107.38	112.60
1	3O	45	GLU	CA-C-O	5.22	127.97	120.51
1	4c	21	ASN	CA-CB-CG	5.22	117.82	112.60
1	4c	143	ARG	CB-CG-CD	5.22	123.31	111.30
1	4j	205	LEU	CB-CA-C	5.22	118.37	109.24
1	4U	58	THR	N-CA-CB	5.22	117.58	110.01
1	4U	62	HIS	N-CA-C	5.22	118.91	111.92
1	4W	71	GLU	CA-C-N	5.22	127.23	120.44
1	4W	71	GLU	C-N-CA	5.22	127.23	120.44
1	4X	181	VAL	O-C-N	-5.22	114.67	121.82
1	51	227	LYS	CA-C-N	5.22	128.12	120.71
1	51	227	LYS	C-N-CA	5.22	128.12	120.71
1	5e	132	ARG	CG-CD-NE	-5.22	100.52	112.00
1	5k	178	SER	N-CA-C	5.22	117.42	110.53
1	5z	62	HIS	ND1-CG-CD2	5.22	111.32	106.10
1	5F	63	GLN	N-CA-C	5.22	116.97	111.28
1	5F	199	LYS	N-CA-C	5.22	116.97	111.28
1	5I	53	ASN	N-CA-C	5.22	117.37	111.11
1	5V	82	ARG	N-CA-C	5.22	116.66	111.07
1	63	141	ILE	N-CA-C	5.22	115.94	110.62
1	67	163	ASP	O-C-N	-5.22	116.20	122.15
1	67	168	PHE	N-CA-CB	-5.22	102.44	110.16
1	6c	163	ASP	CA-CB-CG	-5.22	107.38	112.60
1	6l	80	TRP	CG-CD1-NE1	-5.22	103.42	110.20
1	6n	18	ARG	CB-CA-C	-5.22	102.13	110.79
1	6q	45	GLU	O-C-N	-5.22	115.65	122.59
1	6u	140	LYS	CA-C-N	5.22	127.61	120.46
1	6u	140	LYS	C-N-CA	5.22	127.61	120.46
1	6A	28	GLU	CA-CB-CG	5.22	124.54	114.10
1	6S	148	THR	CA-C-N	5.22	128.63	120.75
1	6S	148	THR	C-N-CA	5.22	128.63	120.75
1	6V	124	ILE	CB-CA-C	-5.22	104.73	110.52
1	73	115	ILE	CA-C-N	5.22	125.73	119.94
1	73	115	ILE	C-N-CA	5.22	125.73	119.94
1	7j	103	ASP	CA-C-O	-5.22	113.63	119.79
1	7t	167	ARG	CA-C-O	-5.22	115.34	120.82
1	7w	87	HIS	N-CA-C	5.22	117.60	110.24
1	7x	36	VAL	CA-C-O	-5.22	115.32	120.85
1	7y	48	THR	O-C-N	-5.22	115.79	121.53
1	7F	90	PRO	N-CA-CB	5.22	108.73	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	81	87	HIS	CA-CB-CG	5.22	119.02	113.80
1	82	24	VAL	N-CA-CB	-5.22	104.72	110.51
1	82	74	ASN	CA-CB-CG	-5.22	107.38	112.60
1	85	79	GLU	N-CA-C	5.22	118.81	112.23
1	86	182	LYS	CA-C-N	5.22	127.27	120.28
1	86	182	LYS	C-N-CA	5.22	127.27	120.28
1	8l	111	LEU	N-CA-C	5.22	117.64	111.33
1	8J	115	ILE	CA-C-N	5.22	125.77	119.98
1	8J	115	ILE	C-N-CA	5.22	125.77	119.98
1	96	127	GLY	CA-C-N	5.22	127.23	120.44
1	96	127	GLY	C-N-CA	5.22	127.23	120.44
1	9e	11	VAL	N-CA-C	5.22	115.42	108.11
1	9f	181	VAL	CA-C-O	5.22	126.38	120.85
1	9p	168	PHE	N-CA-CB	-5.22	102.44	110.16
1	9y	196	PRO	CB-CA-C	5.22	120.17	111.56
1	9C	81	ASP	N-CA-C	-5.22	105.65	112.23
1	9R	193	ASN	CA-C-O	5.22	125.75	119.59
1	9S	32	PHE	N-CA-C	-5.22	99.68	110.80
1	a0	229	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	a8	87	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	ai	2	ILE	CA-C-N	5.22	128.90	122.37
1	ai	2	ILE	C-N-CA	5.22	128.90	122.37
1	11	218	CYS	N-CA-C	5.22	123.73	113.29
1	ak	64	ALA	N-CA-CB	-5.22	102.45	110.12
1	ap	128	GLU	CA-C-N	5.22	127.14	120.56
1	ap	128	GLU	C-N-CA	5.22	127.14	120.56
1	12	50	GLN	CG-CD-NE2	-5.22	108.57	116.40
1	av	85	PRO	N-CA-CB	-5.22	97.77	103.25
1	az	169	TYR	CA-C-N	5.22	127.22	120.44
1	az	169	TYR	C-N-CA	5.22	127.22	120.44
1	aB	108	THR	CB-CA-C	-5.22	101.90	110.72
1	aE	200	THR	CA-CB-OG1	5.22	117.43	109.60
1	aH	158	LYS	CA-C-O	5.22	124.64	118.90
1	aN	5	ASN	N-CA-C	-5.22	102.33	110.42
1	aS	225	GLY	N-CA-C	5.22	117.47	111.36
1	aT	82	ARG	N-CA-CB	5.22	117.88	110.16
1	aU	84	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	b3	91	ILE	CA-CB-CG2	-5.22	101.62	110.50
1	bc	143	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	bc	211	LEU	N-CA-C	5.22	116.97	111.28
1	bt	10	MET	O-C-N	-5.22	116.70	122.86
1	bx	172	LEU	CA-C-O	5.22	125.46	119.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bD	165	VAL	CA-C-N	5.22	127.22	120.44
1	bD	165	VAL	C-N-CA	5.22	127.22	120.44
1	bP	222	GLY	CA-C-O	5.22	126.75	120.90
1	bT	107	THR	CB-CA-C	-5.22	102.69	110.88
1	bW	101	GLY	O-C-N	-5.22	116.96	122.13
1	bZ	3	VAL	CA-C-N	5.22	128.12	120.71
1	bZ	3	VAL	C-N-CA	5.22	128.12	120.71
1	c2	181	VAL	O-C-N	5.22	126.93	121.87
1	c8	216	THR	CA-C-N	5.22	129.14	120.94
1	c8	216	THR	C-N-CA	5.22	129.14	120.94
1	cg	217	ALA	CA-C-O	5.22	127.08	121.55
1	ch	163	ASP	CA-C-N	5.22	127.23	120.44
1	ch	163	ASP	C-N-CA	5.22	127.23	120.44
1	cl	37	ILE	CA-C-O	-5.22	115.19	118.69
1	cl	68	MET	CG-SD-CE	-5.22	89.42	100.90
1	cm	90	PRO	CA-C-N	5.22	127.57	120.63
1	cm	90	PRO	C-N-CA	5.22	127.57	120.63
1	cn	126	VAL	CA-C-O	5.22	126.70	121.17
1	cq	172	LEU	N-CA-C	5.22	117.65	111.33
1	cs	12	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	cx	184	TRP	O-C-N	-5.22	115.85	122.27
1	cz	186	THR	CA-CB-OG1	-5.22	101.77	109.60
1	1f	89	GLY	O-C-N	-5.22	116.55	121.77
1	cD	213	GLU	CA-C-O	5.22	125.95	120.42
1	1h	149	SER	O-C-N	-5.22	117.30	123.25
1	cU	127	GLY	N-CA-C	-5.22	106.03	113.86
1	d0	29	GLU	CA-C-O	5.22	125.14	119.24
1	d7	62	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	dc	194	ALA	O-C-N	-5.22	116.39	122.81
1	de	5	ASN	CB-CG-OD1	5.22	131.24	120.80
1	dj	84	HIS	CA-CB-CG	-5.22	108.58	113.80
1	dm	160	PRO	N-CA-CB	5.22	107.89	103.35
1	dn	163	ASP	CA-C-N	5.22	127.70	120.29
1	dn	163	ASP	C-N-CA	5.22	127.70	120.29
1	do	214	MET	CG-SD-CE	-5.22	89.42	100.90
1	ds	132	ARG	CA-C-N	5.22	127.22	120.44
1	ds	132	ARG	C-N-CA	5.22	127.22	120.44
1	dI	34	PRO	CB-CA-C	5.22	120.98	112.26
1	dI	162	ARG	CG-CD-NE	-5.22	100.52	112.00
1	dJ	71	GLU	CB-CG-CD	5.22	121.47	112.60
1	dQ	84	HIS	CB-CG-CD2	-5.22	124.42	131.20
1	1n	201	ILE	O-C-N	-5.22	116.80	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ec	124	ILE	CA-C-N	5.22	126.36	119.84
1	ec	124	ILE	C-N-CA	5.22	126.36	119.84
1	el	117	TRP	CB-CG-CD1	-5.22	119.07	126.90
1	1q	196	PRO	O-C-N	-5.22	115.59	122.64
1	em	203	LYS	CA-C-N	5.22	127.70	120.29
1	em	203	LYS	C-N-CA	5.22	127.70	120.29
1	eu	67	GLN	N-CA-CB	5.22	117.79	110.12
1	ex	216	THR	CA-C-N	5.22	129.13	120.94
1	ex	216	THR	C-N-CA	5.22	129.13	120.94
1	eA	37	ILE	CA-C-O	-5.22	112.95	119.95
1	eC	20	LEU	CA-C-O	5.22	126.08	120.55
1	eF	40	PHE	CA-CB-CG	5.22	119.02	113.80
1	eF	173	ARG	CA-C-N	5.22	127.27	120.28
1	eF	173	ARG	C-N-CA	5.22	127.27	120.28
1	eK	94	GLY	O-C-N	-5.22	116.39	122.60
1	eQ	116	GLY	CA-C-N	5.22	127.53	120.38
1	eQ	116	GLY	C-N-CA	5.22	127.53	120.38
1	eS	186	THR	N-CA-C	5.22	116.65	111.07
1	f3	57	ASN	CA-C-N	5.22	128.00	120.38
1	f3	57	ASN	C-N-CA	5.22	128.00	120.38
1	f3	121	ASN	CA-CB-CG	5.22	117.82	112.60
1	fc	163	ASP	CA-CB-CG	5.22	117.82	112.60
1	fk	167	ARG	CA-C-N	5.22	127.58	120.54
1	fk	167	ARG	C-N-CA	5.22	127.58	120.54
1	fk	212	GLU	O-C-N	5.22	127.52	122.09
1	fp	190	LEU	CA-C-N	5.22	127.83	120.42
1	fp	190	LEU	C-N-CA	5.22	127.83	120.42
1	fq	115	ILE	CA-C-N	5.22	125.73	119.94
1	fq	115	ILE	C-N-CA	5.22	125.73	119.94
1	1x	204	ALA	O-C-N	-5.22	116.45	122.09
1	fU	3	VAL	CA-C-O	5.22	126.81	121.28
1	g7	213	GLU	CA-C-O	5.22	125.38	119.27
1	a	161	PHE	O-C-N	-5.22	116.69	122.07
1	d	5	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	o	192	GLN	N-CA-CB	-5.22	102.50	110.33
1	p	86	VAL	O-C-N	-5.22	116.98	122.67
1	s	136	LEU	O-C-N	-5.22	116.69	122.07
1	y	197	ASP	N-CA-C	5.22	116.66	111.07
1	I	177	ALA	N-CA-C	5.22	117.03	110.24
1	R	110	THR	CA-CB-OG1	5.22	117.43	109.60
1	W	68	MET	N-CA-CB	5.22	117.58	110.01
1	1C	182	LYS	CA-C-N	5.22	127.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1C	182	LYS	C-N-CA	5.22	127.27	120.28
1	gL	159	GLU	CB-CA-C	5.22	117.81	109.62
1	gR	203	LYS	CA-C-N	5.22	127.22	120.44
1	gR	203	LYS	C-N-CA	5.22	127.22	120.44
1	gX	67	GLN	N-CA-C	5.22	116.97	111.28
1	h2	148	THR	N-CA-CB	5.22	119.31	110.49
1	hh	71	GLU	CB-CG-CD	-5.22	103.73	112.60
1	hl	158	LYS	CA-C-N	5.22	127.75	120.65
1	hl	158	LYS	C-N-CA	5.22	127.75	120.65
1	ho	62	HIS	N-CA-C	5.22	118.83	111.52
1	hQ	119	THR	CA-CB-OG1	5.22	117.43	109.60
1	i0	51	ASP	CA-C-N	5.22	127.27	120.28
1	i0	51	ASP	C-N-CA	5.22	127.27	120.28
1	i9	195	ASN	CB-CG-ND2	-5.22	108.57	116.40
1	ia	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	ik	22	ALA	CA-C-N	5.22	127.70	120.29
1	ik	22	ALA	C-N-CA	5.22	127.70	120.29
1	ik	59	VAL	CA-CB-CG1	-5.22	101.53	110.40
1	ip	106	GLY	CA-C-O	5.22	124.54	119.27
1	ip	228	ALA	O-C-N	5.22	128.86	122.34
1	iM	149	SER	O-C-N	-5.22	117.64	123.48
1	iM	162	ARG	CA-C-O	-5.22	113.97	119.97
1	jl	54	THR	CA-C-N	5.22	127.27	120.28
1	jl	54	THR	C-N-CA	5.22	127.27	120.28
1	jB	211	LEU	CA-C-N	5.22	127.27	120.28
1	jB	211	LEU	C-N-CA	5.22	127.27	120.28
1	jQ	190	LEU	CA-C-O	5.22	126.30	120.82
1	jY	65	ALA	O-C-N	-5.22	116.45	122.09
1	k6	116	GLY	CA-C-N	5.22	127.27	120.28
1	k6	116	GLY	C-N-CA	5.22	127.27	120.28
1	k9	15	ILE	CA-CB-CG1	5.22	119.27	110.40
1	20	18	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	kd	53	ASN	O-C-N	-5.22	116.59	122.12
1	kf	93	PRO	N-CA-CB	5.22	108.71	102.60
1	kg	35	GLU	CA-C-O	-5.22	115.08	120.92
1	kp	20	LEU	N-CA-CB	5.22	117.58	110.01
1	kE	15	ILE	CA-CB-CG1	-5.22	101.53	110.40
1	kQ	39	MET	O-C-N	-5.22	116.70	122.07
1	kZ	81	ASP	CA-C-O	-5.22	115.02	120.55
1	l3	229	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	lc	143	ARG	N-CA-C	5.22	117.37	111.11
1	lk	67	GLN	N-CA-C	5.22	117.64	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lm	100	ARG	CG-CD-NE	-5.22	100.52	112.00
1	lo	150	ILE	CA-C-O	5.22	126.48	121.05
1	lx	194	ALA	N-CA-C	5.22	117.42	110.53
1	lG	183	ASN	N-CA-CB	5.22	117.58	110.01
1	lI	12	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	2g	25	LYS	CA-C-N	5.22	127.83	120.42
1	2g	25	LYS	C-N-CA	5.22	127.83	120.42
1	2h	119	THR	N-CA-CB	5.22	118.32	110.65
1	2L	227	LYS	N-CA-CB	5.22	117.67	109.69
1	2N	59	VAL	CB-CA-C	-5.22	103.08	111.59
1	31	87	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	37	121	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	38	102	SER	N-CA-C	5.22	117.64	111.33
1	3L	195	ASN	CA-C-O	-5.22	113.01	120.16
1	4P	67	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	54	23	TRP	CB-CG-CD1	-5.22	119.07	126.90
1	57	131	LYS	N-CA-C	5.22	121.91	110.80
1	5c	23	TRP	CB-CA-C	5.22	119.07	110.88
1	5E	139	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	5H	191	VAL	O-C-N	-5.22	117.39	122.09
1	61	89	GLY	CA-C-O	-5.22	114.06	121.52
1	64	22	ALA	CA-C-N	5.22	127.58	120.54
1	64	22	ALA	C-N-CA	5.22	127.58	120.54
1	68	28	GLU	CA-C-N	5.22	127.27	120.28
1	68	28	GLU	C-N-CA	5.22	127.27	120.28
1	6K	223	GLY	N-CA-C	5.22	122.98	112.34
1	6X	22	ALA	O-C-N	-5.22	116.66	122.09
1	78	155	GLN	O-C-N	-5.22	116.93	123.04
1	7b	165	VAL	N-CA-C	5.22	115.94	110.62
1	7h	113	GLU	CA-C-N	5.22	127.53	120.38
1	7h	113	GLU	C-N-CA	5.22	127.53	120.38
1	7i	199	LYS	N-CA-C	5.22	117.05	111.36
1	7j	25	LYS	CB-CA-C	5.22	119.07	110.88
1	7r	112	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	7Q	20	LEU	O-C-N	-5.22	116.59	122.12
1	7W	143	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	8l	150	ILE	N-CA-C	-5.22	105.97	113.07
1	8q	219	GLN	CA-C-O	5.22	126.63	120.58
1	8u	173	ARG	CG-CD-NE	-5.22	100.52	112.00
1	8v	115	ILE	CA-C-N	5.22	125.73	119.94
1	8v	115	ILE	C-N-CA	5.22	125.73	119.94
1	90	216	THR	CA-CB-OG1	-5.22	101.77	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	95	48	THR	CA-C-O	-5.22	115.27	120.96
1	9d	184	TRP	CB-CG-CD1	5.22	134.73	126.90
1	9h	169	TYR	N-CA-CB	5.22	117.79	110.12
1	9C	135	ILE	CA-CB-CG1	-5.22	101.53	110.40
1	9K	76	GLU	N-CA-C	-5.22	105.50	111.14
1	Y	167	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	9R	209	ALA	N-CA-C	5.22	121.91	110.80
1	9V	25	LYS	O-C-N	-5.22	115.34	122.33
1	9Y	89	GLY	CA-C-N	5.22	124.98	119.76
1	9Y	89	GLY	C-N-CA	5.22	124.98	119.76
1	ar	183	ASN	CB-CG-OD1	5.22	131.24	120.80
1	av	43	LEU	O-C-N	-5.22	116.08	122.34
1	aw	27	VAL	N-CA-C	5.22	115.94	110.62
1	aJ	21	ASN	N-CA-C	5.22	116.97	111.28
1	aN	73	ILE	CA-C-N	5.22	127.70	120.29
1	aN	73	ILE	C-N-CA	5.22	127.70	120.29
1	14	195	ASN	N-CA-C	5.22	118.22	110.39
1	aZ	94	GLY	CA-C-N	5.22	128.63	120.75
1	aZ	94	GLY	C-N-CA	5.22	128.63	120.75
1	bl	182	LYS	N-CA-C	5.22	117.64	111.33
1	bI	12	HIS	ND1-CE1-NE2	5.22	113.62	108.40
1	bN	120	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	bR	100	ARG	CA-C-O	-5.22	115.98	121.88
1	bX	90	PRO	CA-C-N	5.22	127.61	120.46
1	bX	90	PRO	C-N-CA	5.22	127.61	120.46
1	c1	20	LEU	CA-C-O	5.22	125.95	120.42
1	c2	168	PHE	N-CA-C	5.22	117.39	111.02
1	cu	197	ASP	CA-C-O	5.22	126.08	120.55
1	cx	130	TYR	N-CA-C	5.22	116.97	111.28
1	cJ	128	GLU	N-CA-C	-5.22	105.49	111.07
1	1h	3	VAL	CA-CB-CG1	5.22	119.27	110.40
1	1h	14	ALA	O-C-N	-5.22	117.06	122.96
1	d3	62	HIS	ND1-CG-CD2	5.22	111.32	106.10
1	d6	230	VAL	O-C-N	-5.22	116.81	121.87
1	dJ	62	HIS	CA-C-N	5.22	127.27	120.28
1	dJ	62	HIS	C-N-CA	5.22	127.27	120.28
1	e3	84	HIS	CB-CG-ND1	5.22	130.53	122.70
1	ey	212	GLU	CA-C-O	5.22	126.08	120.55
1	eG	216	THR	N-CA-C	-5.22	106.77	112.72
1	eM	207	PRO	N-CA-CB	5.22	108.41	103.19
1	f2	111	LEU	CA-C-N	5.22	127.27	120.28
1	f2	111	LEU	C-N-CA	5.22	127.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	107	THR	CA-C-O	-5.22	114.89	120.42
1	fa	58	THR	N-CA-C	5.22	119.49	113.18
1	fF	141	ILE	CA-C-N	5.22	127.24	120.56
1	fF	141	ILE	C-N-CA	5.22	127.24	120.56
1	fR	84	HIS	CB-CG-CD2	5.22	137.98	131.20
1	fU	139	ASN	N-CA-C	5.22	116.97	111.28
1	g7	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	k	84	HIS	CG-CD2-NE2	5.22	112.42	107.20
1	n	8	GLY	CA-C-N	5.22	128.26	120.90
1	n	8	GLY	C-N-CA	5.22	128.26	120.90
1	J	220	GLY	CA-C-N	5.22	128.86	121.66
1	J	220	GLY	C-N-CA	5.22	128.86	121.66
1	ge	86	VAL	N-CA-C	5.22	120.19	109.34
1	gl	161	PHE	O-C-N	-5.22	115.65	122.59
1	gl	181	VAL	O-C-N	5.22	127.02	121.91
1	go	32	PHE	O-C-N	5.22	129.31	122.68
1	go	120	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	gt	157	PRO	N-CA-C	-5.22	104.51	113.12
1	gu	60	GLY	O-C-N	-5.22	115.92	122.70
1	gv	23	TRP	CA-C-O	5.22	126.08	120.55
1	gI	99	PRO	N-CA-CB	5.22	108.19	103.34
1	gZ	115	ILE	CA-C-O	-5.22	115.64	121.17
1	gZ	161	PHE	N-CA-C	5.22	118.91	112.54
1	h7	97	ARG	NH1-CZ-NH2	-5.22	112.52	119.30
1	hc	126	VAL	CA-CB-CG2	5.22	119.27	110.40
1	hk	78	ALA	O-C-N	-5.22	116.67	122.09
1	hn	192	GLN	N-CA-C	5.22	117.71	111.71
1	ho	176	GLN	CB-CA-C	5.22	119.74	109.72
1	hs	126	VAL	N-CA-C	5.22	115.94	110.62
1	hz	126	VAL	CB-CA-C	-5.22	105.10	112.14
1	hA	137	GLY	CA-C-O	5.22	125.67	120.09
1	hA	226	HIS	N-CA-C	5.22	118.03	110.42
1	hH	10	MET	O-C-N	-5.22	117.17	123.27
1	hV	229	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	i3	226	HIS	CA-CB-CG	5.22	119.02	113.80
1	i9	182	LYS	N-CA-C	5.22	116.65	111.07
1	ic	62	HIS	CB-CA-C	-5.22	102.81	110.06
1	1O	146	SER	N-CA-C	5.22	119.84	112.75
1	in	176	GLN	CA-CB-CG	5.22	124.53	114.10
1	in	213	GLU	CA-C-O	5.22	125.45	119.35
1	ip	107	THR	N-CA-CB	5.22	117.79	110.12
1	iD	215	MET	CA-CB-CG	5.22	124.53	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iE	128	GLU	O-C-N	-5.22	116.59	122.12
1	iG	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	iH	208	ALA	CB-CA-C	5.22	118.80	110.09
1	jd	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	ji	176	GLN	CA-C-O	5.22	128.32	122.27
1	ju	70	LYS	CA-C-N	5.22	127.27	120.28
1	ju	70	LYS	C-N-CA	5.22	127.27	120.28
1	jv	162	ARG	CA-C-O	5.22	126.08	120.55
1	jA	180	GLU	O-C-N	5.22	127.65	122.12
1	jF	125	PRO	CA-C-N	5.22	127.61	120.46
1	jF	125	PRO	C-N-CA	5.22	127.61	120.46
1	jF	151	LEU	N-CA-C	-5.22	106.76	113.23
1	jS	35	GLU	O-C-N	-5.22	116.25	122.20
1	jU	197	ASP	CA-C-N	5.22	131.43	122.09
1	jU	197	ASP	C-N-CA	5.22	131.43	122.09
1	k7	15	ILE	O-C-N	-5.22	117.08	122.66
1	ka	149	SER	CB-CA-C	5.22	121.39	111.17
1	ka	152	ASP	CB-CA-C	-5.22	102.73	111.13
1	kf	46	GLY	CA-C-N	5.22	128.63	120.75
1	kf	46	GLY	C-N-CA	5.22	128.63	120.75
1	21	18	ARG	CA-C-N	5.22	127.27	120.28
1	21	18	ARG	C-N-CA	5.22	127.27	120.28
1	ky	162	ARG	N-CA-C	5.22	116.66	110.97
1	kz	143	ARG	N-CA-CB	5.22	117.88	110.16
1	kC	220	GLY	N-CA-C	-5.22	102.86	112.62
1	kH	6	LEU	N-CA-C	-5.22	101.14	109.23
1	kH	195	ASN	CA-C-N	5.22	125.27	119.32
1	kH	195	ASN	C-N-CA	5.22	125.27	119.32
1	kT	22	ALA	CA-C-O	-5.22	115.02	120.55
1	kY	103	ASP	N-CA-C	5.22	117.05	111.36
1	l1	152	ASP	CA-C-O	5.22	125.74	119.43
1	l3	146	SER	CA-C-N	5.22	126.36	119.84
1	l3	146	SER	C-N-CA	5.22	126.36	119.84
1	l5	127	GLY	CA-C-N	5.22	127.22	120.44
1	l5	127	GLY	C-N-CA	5.22	127.22	120.44
1	ld	176	GLN	CA-C-O	5.22	126.83	120.57
1	lg	134	ILE	CB-CA-C	-5.22	105.02	112.22
1	lm	176	GLN	OE1-CD-NE2	5.22	127.82	122.60
1	lr	179	GLN	CA-C-N	5.22	127.22	120.44
1	lr	179	GLN	C-N-CA	5.22	127.22	120.44
1	ls	118	MET	CB-CA-C	-5.22	102.69	110.88
1	lw	226	HIS	CE1-NE2-CD2	-5.22	103.78	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lB	35	GLU	CA-C-N	5.22	127.61	120.46
1	lB	35	GLU	C-N-CA	5.22	127.61	120.46
1	lJ	178	SER	N-CA-CB	5.22	120.86	111.37
1	lM	54	THR	CA-CB-CG2	5.22	119.37	110.50
1	2f	8	GLY	N-CA-C	-5.22	104.30	111.76
1	2t	84	HIS	CB-CA-C	-5.22	101.76	111.20
1	2x	217	ALA	N-CA-C	5.22	117.80	110.23
1	2A	13	GLN	CA-C-N	5.22	128.12	120.71
1	2A	13	GLN	C-N-CA	5.22	128.12	120.71
1	2K	186	THR	OG1-CB-CG2	-5.22	98.87	109.30
1	33	214	MET	CA-C-N	5.22	128.24	120.31
1	33	214	MET	C-N-CA	5.22	128.24	120.31
1	37	184	TRP	O-C-N	-5.22	116.59	122.12
1	3b	160	PRO	CA-C-N	5.22	131.50	121.54
1	3b	160	PRO	C-N-CA	5.22	131.50	121.54
1	3q	190	LEU	N-CA-CB	5.22	117.57	110.01
1	3r	142	VAL	N-CA-CB	5.22	119.57	110.65
1	3M	40	PHE	N-CA-C	5.22	117.37	111.11
1	3M	65	ALA	CA-C-N	5.22	127.27	120.28
1	3M	65	ALA	C-N-CA	5.22	127.27	120.28
1	3Z	140	LYS	N-CA-C	5.22	116.97	111.28
1	44	72	THR	O-C-N	-5.22	116.67	122.09
1	4a	54	THR	CA-C-N	5.22	127.27	120.28
1	4a	54	THR	C-N-CA	5.22	127.27	120.28
1	4d	12	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	4h	191	VAL	N-CA-CB	-5.22	101.33	110.77
1	4A	63	GLN	CG-CD-OE1	5.22	131.24	120.80
1	4D	5	ASN	CB-CA-C	5.22	119.48	110.45
1	4P	131	LYS	CG-CD-CE	5.22	123.30	111.30
1	4S	117	TRP	N-CA-CB	5.22	117.79	110.12
1	4V	135	ILE	CA-C-O	5.22	126.70	121.17
1	50	22	ALA	N-CA-C	-5.22	105.66	112.23
1	54	188	THR	O-C-N	-5.22	115.65	122.59
1	5m	132	ARG	NE-CZ-NH2	-5.22	114.50	119.20
1	5C	157	PRO	N-CA-C	5.22	120.39	113.40
1	5G	48	THR	O-C-N	-5.22	116.07	121.60
1	5P	143	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	5Y	230	VAL	O-C-N	-5.22	116.90	122.06
1	61	36	VAL	CA-C-N	5.22	124.50	120.33
1	61	36	VAL	C-N-CA	5.22	124.50	120.33
1	62	144	MET	CA-C-O	5.22	126.08	120.55
1	63	143	ARG	NE-CZ-NH2	-5.22	114.51	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6c	35	GLU	CA-C-N	5.22	127.13	120.56
1	6c	35	GLU	C-N-CA	5.22	127.13	120.56
1	6e	23	TRP	CB-CG-CD1	-5.22	119.08	126.90
1	6n	5	ASN	N-CA-C	-5.22	100.81	108.79
1	6n	124	ILE	CB-CA-C	5.22	116.29	110.71
1	6s	167	ARG	NE-CZ-NH2	5.22	123.89	119.20
1	6x	76	GLU	CA-C-N	5.22	128.04	120.79
1	6x	76	GLU	C-N-CA	5.22	128.04	120.79
1	6J	5	ASN	N-CA-CB	-5.22	102.77	111.06
1	6L	84	HIS	CA-C-O	-5.22	114.72	119.62
1	6O	161	PHE	CA-C-N	5.22	131.50	121.54
1	6O	161	PHE	C-N-CA	5.22	131.50	121.54
1	6Q	120	HIS	CA-CB-CG	-5.22	108.58	113.80
1	71	180	GLU	CA-CB-CG	-5.22	103.67	114.10
1	7d	25	LYS	CA-C-O	-5.22	114.89	120.42
1	7m	80	TRP	CZ3-CH2-CZ2	-5.22	114.72	121.50
1	7q	74	ASN	N-CA-CB	5.22	117.57	110.01
1	7s	143	ARG	N-CA-C	5.22	117.05	111.36
1	7s	162	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	7y	214	MET	N-CA-CB	5.22	117.89	110.06
1	7J	167	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	7J	229	ARG	CA-C-N	5.22	128.31	120.69
1	7J	229	ARG	C-N-CA	5.22	128.31	120.69
1	7K	228	ALA	O-C-N	-5.22	116.48	122.95
1	7O	48	THR	CA-C-N	5.22	125.02	119.28
1	7O	48	THR	C-N-CA	5.22	125.02	119.28
1	7Y	193	ASN	CA-CB-CG	-5.22	107.38	112.60
1	7Z	163	ASP	N-CA-C	5.22	116.97	111.28
1	7Z	178	SER	CA-C-O	5.22	126.70	121.07
1	81	140	LYS	N-CA-C	5.22	116.97	111.28
1	89	74	ASN	OD1-CG-ND2	-5.22	117.38	122.60
1	8s	153	ILE	N-CA-C	5.22	116.74	109.80
1	8B	194	ALA	N-CA-C	5.22	117.06	110.33
1	8M	84	HIS	N-CA-C	5.22	118.52	108.45
1	8P	195	ASN	CA-C-N	5.22	124.72	119.19
1	8P	195	ASN	C-N-CA	5.22	124.72	119.19
1	8Q	193	ASN	CB-CG-OD1	5.22	131.23	120.80
1	8S	72	THR	N-CA-C	5.22	116.65	111.07
1	8W	190	LEU	N-CA-C	5.22	116.97	111.28
1	8Y	101	GLY	N-CA-C	5.22	119.19	112.83
1	9b	176	GLN	O-C-N	-5.22	117.10	123.10
1	9i	224	PRO	CA-C-N	5.22	128.55	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	224	PRO	C-N-CA	5.22	128.55	122.19
1	9q	117	TRP	CB-CG-CD1	-5.22	119.08	126.90
1	9D	199	LYS	CA-C-O	-5.22	115.02	120.55
1	9P	28	GLU	N-CA-C	5.22	116.97	111.28
1	9X	227	LYS	N-CA-CB	5.22	119.31	110.49
1	a1	226	HIS	CB-CA-C	-5.22	102.47	111.23
1	a4	98	GLU	CA-C-O	-5.22	114.62	120.25
1	11	126	VAL	CB-CA-C	5.22	118.65	111.97
1	as	21	ASN	N-CA-CB	5.22	117.79	110.12
1	aU	10	MET	O-C-N	5.22	127.63	122.10
1	b1	18	ARG	NE-CZ-NH2	5.22	123.90	119.20
1	b1	105	ALA	N-CA-C	5.22	116.97	111.28
1	b6	199	LYS	O-C-N	-5.22	115.86	122.27
1	bg	87	HIS	CA-CB-CG	5.22	119.02	113.80
1	17	166	ASP	CA-CB-CG	-5.22	107.38	112.60
1	bl	21	ASN	CA-C-O	5.22	126.08	120.55
1	bl	43	LEU	N-CA-C	-5.22	106.60	113.17
1	bt	123	PRO	CB-CA-C	-5.22	103.17	110.63
1	bI	2	ILE	O-C-N	-5.22	117.55	123.18
1	bP	164	TYR	O-C-N	-5.22	116.20	122.15
1	bU	12	HIS	CB-CG-CD2	-5.22	124.42	131.20
1	c5	170	LYS	CA-C-O	-5.22	115.02	120.55
1	1c	100	ARG	CA-C-O	-5.22	115.30	121.66
1	c7	50	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	c9	181	VAL	CA-C-N	5.22	127.27	120.28
1	c9	181	VAL	C-N-CA	5.22	127.27	120.28
1	cd	78	ALA	CA-C-O	5.22	125.95	120.42
1	cm	132	ARG	O-C-N	-5.22	116.70	122.07
1	cn	165	VAL	CA-CB-CG1	5.22	119.27	110.40
1	1e	45	GLU	CB-CG-CD	5.22	121.47	112.60
1	cq	26	VAL	CB-CA-C	5.22	118.65	111.97
1	cr	87	HIS	CA-CB-CG	-5.22	108.58	113.80
1	cw	50	GLN	CG-CD-NE2	5.22	124.22	116.40
1	1f	39	MET	CA-C-N	5.22	127.79	120.28
1	1f	39	MET	C-N-CA	5.22	127.79	120.28
1	cF	132	ARG	NE-CZ-NH1	5.22	126.72	121.50
1	cI	143	ARG	NH1-CZ-NH2	-5.22	112.52	119.30
1	cL	49	PRO	CA-C-N	5.22	127.27	120.28
1	cL	49	PRO	C-N-CA	5.22	127.27	120.28
1	cV	156	GLY	CA-C-O	-5.22	114.06	121.52
1	d1	84	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	d2	133	TRP	CB-CG-CD2	-5.22	119.50	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	97	ARG	NH1-CZ-NH2	-5.22	112.52	119.30
1	1i	146	SER	CB-CA-C	5.22	115.80	109.85
1	dj	82	ARG	N-CA-C	5.22	116.97	111.28
1	dr	199	LYS	CA-C-N	5.22	127.27	120.28
1	dr	199	LYS	C-N-CA	5.22	127.27	120.28
1	dx	140	LYS	CA-C-N	5.22	127.61	120.46
1	dx	140	LYS	C-N-CA	5.22	127.61	120.46
1	dS	107	THR	N-CA-CB	5.22	117.57	110.01
1	dU	209	ALA	N-CA-C	5.22	117.44	110.35
1	1o	115	ILE	CB-CA-C	5.22	118.65	111.97
1	e5	132	ARG	CA-C-O	-5.22	115.02	120.55
1	e8	185	MET	N-CA-CB	5.22	117.71	109.94
1	eh	42	ALA	CB-CA-C	5.22	119.72	110.85
1	1q	5	ASN	OD1-CG-ND2	5.22	127.82	122.60
1	eq	91	ILE	O-C-N	-5.22	117.26	123.05
1	1s	145	TYR	CB-CG-CD1	5.22	128.62	120.80
1	eI	147	PRO	CA-C-N	5.22	128.25	120.95
1	eI	147	PRO	C-N-CA	5.22	128.25	120.95
1	eX	221	VAL	O-C-N	-5.22	116.92	122.61
1	f4	146	SER	N-CA-C	5.22	119.34	112.35
1	f5	20	LEU	N-CA-C	5.22	116.97	111.28
1	f9	98	GLU	CA-C-N	5.22	125.38	119.90
1	f9	98	GLU	C-N-CA	5.22	125.38	119.90
1	fd	196	PRO	N-CA-C	5.22	123.22	112.47
1	fi	84	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	fj	117	TRP	CB-CG-CD1	-5.22	119.08	126.90
1	fo	131	LYS	N-CA-C	-5.22	105.59	111.28
1	fG	144	MET	CA-C-O	5.22	125.95	120.42
1	fH	25	LYS	O-C-N	-5.22	116.20	122.15
1	fL	111	LEU	O-C-N	-5.22	116.20	122.15
1	fQ	28	GLU	CA-CB-CG	5.22	124.53	114.10
1	fQ	103	ASP	N-CA-CB	-5.22	102.45	110.12
1	g0	116	GLY	N-CA-C	5.22	118.55	112.50
1	g4	36	VAL	N-CA-CB	-5.22	100.10	111.05
1	e	204	ALA	CA-C-O	5.22	125.80	119.38
1	f	142	VAL	CB-CA-C	5.22	119.18	112.14
1	o	47	ALA	CB-CA-C	5.22	118.36	109.75
1	p	103	ASP	CA-C-N	5.22	127.61	120.46
1	p	103	ASP	C-N-CA	5.22	127.61	120.46
1	s	12	HIS	CB-CG-CD2	-5.22	124.42	131.20
1	s	182	LYS	O-C-N	5.22	127.65	122.12
1	t	203	LYS	CA-C-O	-5.22	115.34	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	62	HIS	CB-CG-ND1	5.22	130.53	122.70
1	y	155	GLN	O-C-N	-5.22	116.60	123.02
1	3	2	ILE	N-CA-CB	5.22	116.41	110.72
1	I	111	LEU	N-CA-C	5.22	116.97	111.28
1	J	40	PHE	O-C-N	-5.22	116.70	122.07
1	S	145	TYR	CB-CG-CD2	-5.22	112.97	120.80
1	X	4	GLN	OE1-CD-NE2	-5.22	117.38	122.60
1	6	79	GLU	O-C-N	5.22	127.65	122.12
1	gg	91	ILE	CA-CB-CG1	5.21	119.26	110.40
1	gm	126	VAL	N-CA-C	5.21	115.99	110.72
1	gp	36	VAL	N-CA-C	5.21	115.94	110.62
1	gK	152	ASP	O-C-N	-5.21	115.32	122.46
1	gR	11	VAL	N-CA-CB	5.21	119.91	111.36
1	h5	87	HIS	CB-CG-CD2	-5.21	124.42	131.20
1	h5	103	ASP	CA-C-N	5.21	127.83	120.42
1	h5	103	ASP	C-N-CA	5.21	127.83	120.42
1	h8	76	GLU	N-CA-C	5.21	116.96	111.28
1	hj	114	GLN	O-C-N	-5.21	116.59	122.12
1	hj	125	PRO	CA-C-N	5.21	128.71	120.47
1	hj	125	PRO	C-N-CA	5.21	128.71	120.47
1	ho	78	ALA	CA-C-N	5.21	127.58	120.54
1	ho	78	ALA	C-N-CA	5.21	127.58	120.54
1	hC	63	GLN	CA-C-O	5.21	126.08	120.55
1	hK	81	ASP	CA-CB-CG	5.21	117.81	112.60
1	hT	164	TYR	O-C-N	-5.21	116.70	122.07
1	hV	34	PRO	CA-C-O	5.21	125.34	118.98
1	hV	98	GLU	CA-C-N	5.21	126.36	119.84
1	hV	98	GLU	C-N-CA	5.21	126.36	119.84
1	i1	87	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	i4	15	ILE	CB-CA-C	-5.21	102.74	111.29
1	ig	203	LYS	N-CA-C	5.21	116.96	111.28
1	il	99	PRO	N-CA-CB	-5.21	98.77	103.36
1	iq	173	ARG	CA-C-N	5.21	128.24	120.31
1	iq	173	ARG	C-N-CA	5.21	128.24	120.31
1	iE	181	VAL	N-CA-C	5.21	115.99	110.72
1	iP	49	PRO	CA-C-N	5.21	127.27	120.28
1	iP	49	PRO	C-N-CA	5.21	127.27	120.28
1	iQ	93	PRO	O-C-N	-5.21	115.60	122.64
1	iW	177	ALA	CA-C-N	5.21	128.62	120.75
1	iW	177	ALA	C-N-CA	5.21	128.62	120.75
1	j7	50	GLN	N-CA-C	5.21	116.96	111.28
1	jb	191	VAL	CA-C-O	-5.21	114.84	120.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	57	ASN	CA-CB-CG	5.21	117.81	112.60
1	jl	99	PRO	N-CD-CG	5.21	111.02	103.20
1	jp	186	THR	OG1-CB-CG2	-5.21	98.87	109.30
1	jr	202	LEU	N-CA-CB	5.21	117.88	110.16
1	js	25	LYS	CA-C-N	5.21	127.60	120.46
1	js	25	LYS	C-N-CA	5.21	127.60	120.46
1	jt	63	GLN	N-CA-C	5.21	116.96	111.28
1	ju	131	LYS	CA-C-N	5.21	127.27	120.28
1	ju	131	LYS	C-N-CA	5.21	127.27	120.28
1	jx	84	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	jA	82	ARG	CD-NE-CZ	-5.21	117.10	124.40
1	jA	89	GLY	CA-C-N	5.21	126.36	119.84
1	jA	89	GLY	C-N-CA	5.21	126.36	119.84
1	jB	62	HIS	CA-CB-CG	-5.21	108.59	113.80
1	jB	124	ILE	CB-CA-C	5.21	116.29	110.71
1	jS	182	LYS	CA-C-N	5.21	127.27	120.28
1	jS	182	LYS	C-N-CA	5.21	127.27	120.28
1	jT	97	ARG	O-C-N	-5.21	116.40	122.81
1	jZ	156	GLY	CA-C-N	5.21	124.72	119.19
1	jZ	156	GLY	C-N-CA	5.21	124.72	119.19
1	k5	224	PRO	N-CA-C	5.21	119.40	111.11
1	20	37	ILE	N-CA-CB	5.21	113.78	110.50
1	ka	18	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	kc	78	ALA	N-CA-CB	5.21	117.78	110.12
1	kc	142	VAL	O-C-N	-5.21	116.72	121.94
1	ke	62	HIS	CA-CB-CG	-5.21	108.59	113.80
1	kk	28	GLU	CA-C-N	5.21	129.42	120.71
1	kk	28	GLU	C-N-CA	5.21	129.42	120.71
1	kn	33	SER	N-CA-C	5.21	117.09	109.84
1	ku	72	THR	CA-C-N	5.21	127.33	120.60
1	ku	72	THR	C-N-CA	5.21	127.33	120.60
1	kC	156	GLY	CA-C-N	-5.21	113.32	119.84
1	kC	156	GLY	C-N-CA	-5.21	113.32	119.84
1	kL	49	PRO	N-CA-CB	5.21	108.73	103.25
1	kP	62	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	kS	2	ILE	CA-C-N	5.21	128.16	120.91
1	kS	2	ILE	C-N-CA	5.21	128.16	120.91
1	kY	20	LEU	CA-C-O	5.21	126.08	120.55
1	lh	2	ILE	O-C-N	-5.21	117.24	123.03
1	27	45	GLU	O-C-N	-5.21	116.59	122.12
1	27	143	ARG	N-CA-C	5.21	117.38	111.02
1	lk	87	HIS	CG-CD2-NE2	5.21	112.41	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lA	226	HIS	CB-CG-CD2	-5.21	124.42	131.20
1	29	143	ARG	O-C-N	-5.21	116.59	122.12
1	lD	206	GLY	CA-C-N	5.21	125.22	119.90
1	lD	206	GLY	C-N-CA	5.21	125.22	119.90
1	lI	49	PRO	N-CD-CG	5.21	111.02	103.20
1	lI	113	GLU	N-CA-C	5.21	117.04	111.36
1	lM	207	PRO	O-C-N	-5.21	115.21	122.30
1	2c	101	GLY	CA-C-O	5.21	125.91	120.80
1	2e	117	TRP	CZ3-CH2-CZ2	-5.21	114.72	121.50
1	2v	154	ARG	N-CA-C	-5.21	100.58	108.46
1	2F	83	LEU	N-CA-C	5.21	117.04	111.36
1	2H	73	ILE	CA-C-O	5.21	125.89	119.58
1	2J	98	GLU	CA-C-N	5.21	125.51	119.93
1	2J	98	GLU	C-N-CA	5.21	125.51	119.93
1	2L	214	MET	CB-CA-C	-5.21	102.69	110.88
1	2O	181	VAL	CA-C-O	-5.21	115.64	121.17
1	2T	199	LYS	CA-C-O	-5.21	115.02	120.55
1	2W	95	GLN	CA-C-O	-5.21	115.66	121.81
1	2W	207	PRO	CA-C-O	-5.21	113.28	118.29
1	2Y	78	ALA	N-CA-C	-5.21	105.68	111.36
1	30	30	LYS	O-C-N	-5.21	116.59	122.12
1	30	77	ALA	N-CA-CB	-5.21	102.45	110.01
1	31	62	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	39	50	GLN	CA-C-N	5.21	127.22	120.44
1	39	50	GLN	C-N-CA	5.21	127.22	120.44
1	3c	139	ASN	O-C-N	-5.21	116.59	122.12
1	3s	16	SER	CA-C-O	-5.21	115.27	120.64
1	3z	179	GLN	CA-C-N	5.21	128.04	120.79
1	3z	179	GLN	C-N-CA	5.21	128.04	120.79
1	3C	147	PRO	CB-CA-C	5.21	116.30	109.89
1	3D	167	ARG	N-CA-CB	5.21	118.33	110.30
1	3I	205	LEU	N-CA-CB	5.21	117.79	110.12
1	3Q	155	GLN	N-CA-C	5.21	117.26	109.59
1	3T	150	ILE	N-CA-C	-5.21	106.80	112.80
1	3W	66	MET	N-CA-C	5.21	116.96	111.28
1	42	159	GLU	CA-C-N	5.21	126.36	119.84
1	42	159	GLU	C-N-CA	5.21	126.36	119.84
1	45	200	THR	CB-CA-C	-5.21	102.47	110.81
1	47	79	GLU	CA-C-N	5.21	128.24	120.31
1	47	79	GLU	C-N-CA	5.21	128.24	120.31
1	4e	48	THR	CA-C-O	-5.21	115.14	120.87
1	4h	158	LYS	CB-CA-C	5.21	118.72	109.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4i	12	HIS	CB-CG-CD2	-5.21	124.42	131.20
1	4j	24	VAL	CA-CB-CG2	-5.21	101.53	110.40
1	4k	219	GLN	N-CA-CB	5.21	118.76	110.16
1	4n	51	ASP	N-CA-C	5.21	116.77	111.14
1	4w	212	GLU	N-CA-C	5.21	116.97	111.28
1	4z	75	GLU	N-CA-C	5.21	116.96	111.28
1	4G	112	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	56	25	LYS	N-CA-C	5.21	116.96	111.28
1	5b	51	ASP	CA-CB-CG	-5.21	107.39	112.60
1	5c	166	ASP	N-CA-C	5.21	116.65	111.07
1	5B	114	GLN	N-CA-C	5.21	117.37	111.11
1	5U	66	MET	N-CA-C	5.21	117.04	111.36
1	5U	87	HIS	CA-CB-CG	5.21	119.01	113.80
1	68	204	ALA	CA-C-N	5.21	128.24	120.31
1	68	204	ALA	C-N-CA	5.21	128.24	120.31
1	6a	19	THR	CA-CB-CG2	5.21	119.37	110.50
1	6e	31	ALA	CA-C-O	5.21	127.97	120.51
1	6n	208	ALA	CB-CA-C	5.21	119.75	111.51
1	6z	6	LEU	CA-C-O	-5.21	115.73	120.95
1	6M	143	ARG	NE-CZ-NH1	5.21	126.72	121.50
1	6O	3	VAL	O-C-N	-5.21	117.97	123.03
1	6O	96	MET	CG-SD-CE	-5.21	89.43	100.90
1	6Z	23	TRP	O-C-N	-5.21	116.70	122.07
1	71	37	ILE	N-CA-CB	5.21	114.01	110.52
1	74	100	ARG	NH1-CZ-NH2	-5.21	112.52	119.30
1	77	78	ALA	CA-C-O	-5.21	115.34	120.82
1	7m	219	GLN	CG-CD-NE2	5.21	124.22	116.40
1	7z	46	GLY	CA-C-O	-5.21	113.36	119.72
1	7C	38	PRO	CB-CA-C	-5.21	104.39	113.20
1	7H	153	ILE	N-CA-CB	5.21	116.41	110.72
1	7M	55	MET	N-CA-CB	5.21	117.57	110.01
1	7W	190	LEU	N-CA-C	5.21	119.92	111.37
1	7X	68	MET	CA-C-N	5.21	127.22	120.44
1	7X	68	MET	C-N-CA	5.21	127.22	120.44
1	7Z	124	ILE	CB-CA-C	-5.21	104.85	110.85
1	84	55	MET	O-C-N	-5.21	116.59	122.12
1	8n	100	ARG	CA-C-N	5.21	125.88	119.99
1	8n	100	ARG	C-N-CA	5.21	125.88	119.99
1	8O	136	LEU	CA-C-O	5.21	125.99	120.10
1	92	7	GLN	CA-C-N	5.21	128.00	122.63
1	92	7	GLN	C-N-CA	5.21	128.00	122.63
1	9a	182	LYS	CB-CA-C	5.21	119.45	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9z	120	HIS	O-C-N	-5.21	116.58	122.68
1	9G	195	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	9I	19	THR	CA-C-N	5.21	127.27	120.28
1	9I	19	THR	C-N-CA	5.21	127.27	120.28
1	9J	173	ARG	CG-CD-NE	-5.21	100.53	112.00
1	Y	167	ARG	NH1-CZ-NH2	-5.21	112.52	119.30
1	Y	206	GLY	CA-C-N	5.21	124.72	119.19
1	Y	206	GLY	C-N-CA	5.21	124.72	119.19
1	9W	119	THR	CA-CB-OG1	5.21	117.42	109.60
1	9Z	20	LEU	CA-C-N	5.21	127.22	120.44
1	9Z	20	LEU	C-N-CA	5.21	127.22	120.44
1	a7	147	PRO	N-CA-C	-5.21	107.23	114.27
1	a9	152	ASP	O-C-N	-5.21	116.04	122.25
1	ai	37	ILE	N-CA-C	5.21	118.61	112.35
1	aF	173	ARG	CD-NE-CZ	-5.21	117.10	124.40
1	aK	67	GLN	CA-C-O	5.21	125.99	120.10
1	aK	89	GLY	CA-C-N	5.21	126.36	119.84
1	aK	89	GLY	C-N-CA	5.21	126.36	119.84
1	aZ	16	SER	CA-C-N	5.21	124.83	119.56
1	aZ	16	SER	C-N-CA	5.21	124.83	119.56
1	b6	213	GLU	N-CA-C	5.21	117.37	111.11
1	b7	88	ALA	CA-C-N	-5.21	113.69	121.87
1	b7	88	ALA	C-N-CA	-5.21	113.69	121.87
1	bb	162	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	bc	102	SER	N-CA-C	-5.21	106.18	112.54
1	bc	226	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	bh	43	LEU	N-CA-C	5.21	117.71	111.71
1	bj	195	ASN	O-C-N	-5.21	115.02	121.64
1	bp	76	GLU	CA-C-N	5.21	127.22	120.44
1	bp	76	GLU	C-N-CA	5.21	127.22	120.44
1	bs	120	HIS	CA-C-N	5.21	131.34	122.06
1	bs	120	HIS	C-N-CA	5.21	131.34	122.06
1	bz	196	PRO	N-CA-C	5.21	123.21	112.47
1	19	23	TRP	CA-CB-CG	5.21	123.51	113.60
1	19	212	GLU	N-CA-C	5.21	118.90	112.54
1	1a	225	GLY	CA-C-N	5.21	127.69	120.29
1	1a	225	GLY	C-N-CA	5.21	127.69	120.29
1	bO	42	ALA	N-CA-C	5.21	117.64	111.33
1	bR	58	THR	N-CA-CB	5.21	118.30	110.53
1	bT	130	TYR	CB-CG-CD2	-5.21	112.98	120.80
1	bX	141	ILE	N-CA-C	5.21	115.94	110.62
1	c6	167	ARG	NH1-CZ-NH2	-5.21	112.52	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c9	129	ILE	CA-C-O	5.21	126.38	120.85
1	cb	190	LEU	CA-C-N	5.21	127.60	120.46
1	cb	190	LEU	C-N-CA	5.21	127.60	120.46
1	ck	16	SER	CA-C-N	5.21	125.02	119.28
1	ck	16	SER	C-N-CA	5.21	125.02	119.28
1	cs	163	ASP	O-C-N	5.21	127.44	122.07
1	cy	52	LEU	O-C-N	-5.21	116.59	122.12
1	cI	33	SER	CA-C-O	-5.21	113.02	120.16
1	cK	72	THR	N-CA-CB	5.21	117.57	110.01
1	cR	142	VAL	CA-C-O	-5.21	114.26	120.78
1	cR	204	ALA	CA-C-O	-5.21	114.45	120.24
1	cY	33	SER	CA-C-N	5.21	125.02	119.28
1	cY	33	SER	C-N-CA	5.21	125.02	119.28
1	d3	55	MET	CA-C-N	5.21	127.22	120.44
1	d3	55	MET	C-N-CA	5.21	127.22	120.44
1	d3	173	ARG	O-C-N	-5.21	115.61	122.39
1	d5	99	PRO	N-CA-CB	-5.21	97.78	103.25
1	d8	113	GLU	CB-CA-C	-5.21	102.13	110.79
1	d8	148	THR	CA-C-N	5.21	128.17	120.82
1	d8	148	THR	C-N-CA	5.21	128.17	120.82
1	dm	172	LEU	CA-C-N	5.21	127.69	120.29
1	dm	172	LEU	C-N-CA	5.21	127.69	120.29
1	dr	98	GLU	CB-CA-C	5.21	116.85	109.08
1	dw	97	ARG	NH1-CZ-NH2	-5.21	112.52	119.30
1	dx	185	MET	CG-SD-CE	-5.21	89.43	100.90
1	dA	18	ARG	N-CA-C	5.21	116.97	111.28
1	dC	107	THR	CA-CB-OG1	5.21	117.42	109.60
1	dL	112	GLN	N-CA-CB	-5.21	102.45	110.12
1	ea	46	GLY	CA-C-O	-5.21	113.88	119.82
1	ef	138	LEU	N-CA-C	5.21	117.05	111.36
1	1q	126	VAL	N-CA-C	5.21	115.65	110.23
1	eo	135	ILE	O-C-N	5.21	126.93	121.87
1	eC	19	THR	CA-C-N	5.21	127.27	120.28
1	eC	19	THR	C-N-CA	5.21	127.27	120.28
1	eN	46	GLY	CA-C-N	5.21	129.55	121.26
1	eN	46	GLY	C-N-CA	5.21	129.55	121.26
1	eN	136	LEU	CA-C-O	5.21	126.30	120.82
1	eO	82	ARG	NH1-CZ-NH2	-5.21	112.52	119.30
1	eO	107	THR	N-CA-C	-5.21	104.53	112.04
1	eP	208	ALA	CA-C-O	-5.21	115.34	120.82
1	eY	22	ALA	CA-C-N	5.21	127.27	120.28
1	eY	22	ALA	C-N-CA	5.21	127.27	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f1	226	HIS	CE1-NE2-CD2	-5.21	103.78	109.00
1	f5	45	GLU	CA-C-N	5.21	131.63	121.41
1	f5	45	GLU	C-N-CA	5.21	131.63	121.41
1	f6	47	ALA	N-CA-C	5.21	117.79	110.23
1	fh	120	HIS	N-CA-CB	-5.21	101.68	110.49
1	fk	178	SER	N-CA-C	5.21	118.72	109.96
1	fs	195	ASN	O-C-N	-5.21	115.02	121.64
1	ft	18	ARG	NH1-CZ-NH2	-5.21	112.52	119.30
1	fJ	135	ILE	CB-CA-C	-5.21	105.10	112.14
1	fZ	37	ILE	N-CA-CB	-5.21	103.91	111.21
1	g4	134	ILE	CB-CA-C	-5.21	105.03	112.22
1	g5	11	VAL	N-CA-C	5.21	115.78	108.17
1	g7	209	ALA	O-C-N	-5.21	116.29	122.65
1	e	173	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	f	37	ILE	CB-CA-C	5.21	120.85	111.36
1	i	115	ILE	N-CA-CB	-5.21	103.95	110.47
1	1	223	GLY	O-C-N	5.21	126.98	121.77
1	p	82	ARG	N-CA-C	5.21	116.65	111.07
1	r	213	GLU	CA-CB-CG	-5.21	103.67	114.10
1	O	182	LYS	N-CA-C	5.21	116.65	111.07
1	9	182	LYS	N-CA-C	5.21	118.42	111.75
1	gh	27	VAL	O-C-N	-5.21	115.33	122.26
1	gp	9	GLN	N-CA-C	5.21	121.90	110.80
1	gp	18	ARG	N-CA-C	5.21	116.96	111.28
1	gC	135	ILE	CA-CB-CG2	5.21	119.36	110.50
1	1H	201	ILE	CA-C-N	5.21	127.58	120.54
1	1H	201	ILE	C-N-CA	5.21	127.58	120.54
1	he	197	ASP	CA-CB-CG	5.21	117.81	112.60
1	hl	23	TRP	N-CA-C	5.21	116.96	111.28
1	hI	169	TYR	CG-CD1-CE1	-5.21	113.38	121.20
1	il	223	GLY	CA-C-O	-5.21	114.07	121.52
1	iw	74	ASN	CA-C-O	-5.21	115.35	120.82
1	iQ	196	PRO	CB-CA-C	5.21	120.16	111.56
1	iU	210	THR	N-CA-CB	5.21	117.68	110.17
1	j9	138	LEU	CA-C-N	5.21	127.22	120.44
1	j9	138	LEU	C-N-CA	5.21	127.22	120.44
1	1W	189	LEU	N-CA-C	5.21	117.64	111.33
1	jX	80	TRP	CD2-CE3-CZ3	-5.21	111.82	118.60
1	jX	84	HIS	CA-C-N	5.21	124.53	118.85
1	jX	84	HIS	C-N-CA	5.21	124.53	118.85
1	kl	165	VAL	N-CA-C	5.21	116.56	110.62
1	22	82	ARG	NH1-CZ-NH2	-5.21	112.52	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	97	ARG	N-CA-C	5.21	117.41	110.53
1	kK	9	GLN	CB-CG-CD	5.21	121.46	112.60
1	kM	110	THR	CA-C-N	5.21	127.52	120.38
1	kM	110	THR	C-N-CA	5.21	127.52	120.38
1	la	12	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	lk	182	LYS	CA-C-O	5.21	126.08	120.55
1	lu	74	ASN	N-CA-C	5.21	117.04	111.36
1	lK	39	MET	CA-C-N	5.21	127.27	120.28
1	lK	39	MET	C-N-CA	5.21	127.27	120.28
1	2j	148	THR	N-CA-CB	5.21	118.76	110.84
1	2l	201	ILE	CB-CA-C	-5.21	105.30	111.97
1	2u	74	ASN	N-CA-CB	5.21	117.57	110.01
1	2O	70	LYS	O-C-N	-5.21	116.67	122.09
1	2T	184	TRP	CA-C-N	5.21	127.53	120.65
1	2T	184	TRP	C-N-CA	5.21	127.53	120.65
1	33	133	TRP	CE2-CD2-CE3	5.21	124.01	118.80
1	36	6	LEU	O-C-N	-5.21	115.85	122.26
1	36	121	ASN	N-CA-CB	-5.21	98.80	110.27
1	3a	13	GLN	O-C-N	-5.21	116.41	123.19
1	3r	212	GLU	CA-C-N	5.21	127.27	120.28
1	3r	212	GLU	C-N-CA	5.21	127.27	120.28
1	3O	178	SER	CA-C-N	5.21	127.99	120.38
1	3O	178	SER	C-N-CA	5.21	127.99	120.38
1	3X	164	TYR	N-CA-C	-5.21	105.68	111.36
1	3Y	142	VAL	CA-CB-CG1	5.21	119.26	110.40
1	43	6	LEU	N-CA-C	5.21	117.02	110.24
1	4z	139	ASN	CA-CB-CG	-5.21	107.39	112.60
1	4A	196	PRO	CA-C-N	5.21	127.27	120.28
1	4A	196	PRO	C-N-CA	5.21	127.27	120.28
1	4J	59	VAL	O-C-N	-5.21	117.35	122.67
1	4U	202	LEU	CA-C-O	5.21	125.95	120.42
1	5r	103	ASP	CA-CB-CG	-5.21	107.39	112.60
1	5u	19	THR	OG1-CB-CG2	-5.21	98.87	109.30
1	5z	3	VAL	CA-C-O	5.21	127.20	121.67
1	5z	17	PRO	N-CA-C	-5.21	106.74	113.57
1	5H	141	ILE	N-CA-CB	-5.21	104.72	110.51
1	5V	160	PRO	CA-C-N	5.21	127.52	120.38
1	5V	160	PRO	C-N-CA	5.21	127.52	120.38
1	6n	115	ILE	CA-C-N	5.21	125.73	119.94
1	6n	115	ILE	C-N-CA	5.21	125.73	119.94
1	6p	169	TYR	N-CA-C	5.21	116.96	111.28
1	6t	136	LEU	N-CA-C	5.21	117.37	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6B	188	THR	CB-CA-C	-5.21	102.61	111.26
1	6I	100	ARG	CA-C-N	5.21	125.88	119.99
1	6I	100	ARG	C-N-CA	5.21	125.88	119.99
1	6R	100	ARG	CA-C-O	-5.21	116.54	122.01
1	6V	179	GLN	O-C-N	-5.21	116.59	122.12
1	77	86	VAL	N-CA-CB	5.21	116.21	110.53
1	7h	115	ILE	CA-C-N	5.21	125.73	120.00
1	7h	115	ILE	C-N-CA	5.21	125.73	120.00
1	7o	14	ALA	CA-C-N	-5.21	113.28	121.62
1	7o	14	ALA	C-N-CA	-5.21	113.28	121.62
1	7q	110	THR	CA-C-N	5.21	127.52	120.38
1	7q	110	THR	C-N-CA	5.21	127.52	120.38
1	7w	82	ARG	CG-CD-NE	-5.21	100.53	112.00
1	7A	113	GLU	CA-C-N	5.21	127.69	120.29
1	7A	113	GLU	C-N-CA	5.21	127.69	120.29
1	7D	47	ALA	CA-C-N	5.21	129.37	121.03
1	7D	47	ALA	C-N-CA	5.21	129.37	121.03
1	7Q	225	GLY	CA-C-N	5.21	127.79	120.28
1	7Q	225	GLY	C-N-CA	5.21	127.79	120.28
1	7Y	190	LEU	N-CA-CB	5.21	117.57	110.01
1	80	216	THR	CA-C-N	5.21	131.50	121.54
1	80	216	THR	C-N-CA	5.21	131.50	121.54
1	83	143	ARG	CA-C-N	5.21	127.27	120.28
1	83	143	ARG	C-N-CA	5.21	127.27	120.28
1	88	165	VAL	O-C-N	-5.21	116.80	121.91
1	8g	120	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	8l	89	GLY	N-CA-C	5.21	122.97	112.34
1	8B	167	ARG	CB-CG-CD	5.21	123.29	111.30
1	91	160	PRO	CA-C-O	-5.21	115.59	121.43
1	96	10	MET	N-CA-C	5.21	118.00	110.28
1	98	226	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	9d	72	THR	N-CA-CB	5.21	117.57	110.01
1	9s	161	PHE	CA-CB-CG	-5.21	108.59	113.80
1	9D	196	PRO	N-CA-C	5.21	120.69	113.65
1	9L	82	ARG	N-CA-CB	-5.21	102.46	110.12
1	a3	188	THR	N-CA-CB	5.21	117.88	110.16
1	11	96	MET	O-C-N	-5.21	116.80	123.06
1	11	149	SER	CA-C-N	5.21	128.85	120.30
1	11	149	SER	C-N-CA	5.21	128.85	120.30
1	as	5	ASN	OD1-CG-ND2	-5.21	117.39	122.60
1	ax	84	HIS	CA-CB-CG	5.21	119.01	113.80
1	ay	12	HIS	CA-C-O	5.21	125.88	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	58	THR	N-CA-C	5.21	116.96	111.28
1	b1	168	PHE	N-CA-CB	-5.21	102.45	110.01
1	bx	63	GLN	O-C-N	-5.21	115.44	122.43
1	bR	20	LEU	CA-C-O	5.21	126.08	120.55
1	bY	175	GLU	CA-C-O	5.21	127.00	121.16
1	cn	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	co	164	TYR	N-CA-CB	-5.21	102.46	110.12
1	co	212	GLU	N-CA-C	5.21	116.96	111.28
1	cr	184	TRP	CE2-CD2-CE3	5.21	124.01	118.80
1	cL	15	ILE	CA-CB-CG2	5.21	119.36	110.50
1	dy	203	LYS	N-CA-CB	5.21	117.78	110.12
1	es	216	THR	CA-CB-OG1	5.21	117.42	109.60
1	eu	198	CYS	CA-C-O	5.21	125.99	120.10
1	eA	168	PHE	CA-CB-CG	5.21	119.01	113.80
1	eU	15	ILE	N-CA-C	5.21	117.14	109.63
1	f9	69	LEU	O-C-N	-5.21	116.70	122.07
1	fi	230	VAL	CA-CB-CG1	5.21	119.26	110.40
1	fK	120	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	g1	112	GLN	CA-C-O	-5.21	115.35	120.82
1	j	47	ALA	CA-C-O	-5.21	115.45	121.19
1	I	84	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	ga	98	GLU	CB-CG-CD	-5.21	103.74	112.60
1	go	169	TYR	N-CA-CB	5.21	118.25	110.22
1	gr	78	ALA	O-C-N	-5.21	116.70	122.07
1	gt	103	ASP	CA-C-O	-5.21	115.03	120.55
1	gR	213	GLU	CB-CG-CD	5.21	121.46	112.60
1	h1	218	CYS	CA-C-N	5.21	128.23	120.31
1	h1	218	CYS	C-N-CA	5.21	128.23	120.31
1	h8	2	ILE	N-CA-CB	5.21	119.99	111.44
1	hk	26	VAL	O-C-N	-5.21	116.46	121.83
1	hm	128	GLU	N-CA-CB	5.21	117.57	110.01
1	ho	100	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	hu	226	HIS	O-C-N	-5.21	116.40	122.81
1	hw	104	ILE	O-C-N	-5.21	115.22	122.05
1	hD	40	PHE	CA-CB-CG	-5.21	108.59	113.80
1	1L	55	MET	CA-C-N	5.21	127.26	120.28
1	1L	55	MET	C-N-CA	5.21	127.26	120.28
1	hU	130	TYR	CA-C-N	5.21	127.26	120.28
1	hU	130	TYR	C-N-CA	5.21	127.26	120.28
1	hV	50	GLN	CA-C-N	5.21	127.26	120.28
1	hV	50	GLN	C-N-CA	5.21	127.26	120.28
1	i0	74	ASN	CA-CB-CG	-5.21	107.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i4	173	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	i9	186	THR	O-C-N	-5.21	116.59	122.12
1	ij	106	GLY	CA-C-O	5.21	126.19	119.68
1	ik	176	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	in	209	ALA	O-C-N	-5.21	117.27	123.11
1	it	165	VAL	CA-C-N	5.21	127.58	120.54
1	it	165	VAL	C-N-CA	5.21	127.58	120.54
1	iP	216	THR	N-CA-CB	5.21	118.29	110.53
1	iU	201	ILE	CB-CA-C	5.21	118.64	111.97
1	iW	130	TYR	CA-C-N	5.21	127.26	120.28
1	iW	130	TYR	C-N-CA	5.21	127.26	120.28
1	iW	157	PRO	N-CA-CB	5.21	108.72	103.25
1	j3	159	GLU	O-C-N	-5.21	116.33	121.18
1	j7	149	SER	O-C-N	-5.21	116.29	122.65
1	je	32	PHE	N-CA-CB	5.21	117.61	110.57
1	1V	120	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	jo	41	SER	N-CA-CB	-5.21	102.45	110.01
1	ju	109	SER	CA-C-N	5.21	130.76	121.75
1	ju	109	SER	C-N-CA	5.21	130.76	121.75
1	jv	127	GLY	CA-C-N	5.21	127.26	120.28
1	jv	127	GLY	C-N-CA	5.21	127.26	120.28
1	jB	63	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	jI	147	PRO	N-CA-C	5.21	119.06	111.03
1	jN	75	GLU	N-CA-CB	5.21	117.57	110.01
1	1Y	81	ASP	CA-C-N	5.21	127.26	120.28
1	1Y	81	ASP	C-N-CA	5.21	127.26	120.28
1	jV	114	GLN	CA-C-N	5.21	127.88	120.53
1	jV	114	GLN	C-N-CA	5.21	127.88	120.53
1	1Z	153	ILE	CA-CB-CG1	5.21	119.26	110.40
1	k0	225	GLY	CA-C-O	5.21	126.03	120.30
1	k3	100	ARG	CB-CA-C	5.21	119.47	110.45
1	ka	91	ILE	CA-C-N	5.21	127.74	120.65
1	ka	91	ILE	C-N-CA	5.21	127.74	120.65
1	kg	109	SER	N-CA-C	5.21	116.99	109.07
1	kk	119	THR	N-CA-CB	5.21	118.57	110.44
1	kn	192	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	kr	114	GLN	O-C-N	5.21	127.44	122.07
1	kt	185	MET	CA-C-O	-5.21	115.03	120.55
1	22	89	GLY	N-CA-C	5.21	122.97	112.34
1	kE	43	LEU	CA-C-O	5.21	125.37	119.27
1	kF	188	THR	CA-C-N	5.21	127.26	120.28
1	kF	188	THR	C-N-CA	5.21	127.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kJ	211	LEU	CA-C-O	5.21	125.38	119.18
1	le	74	ASN	O-C-N	-5.21	116.60	122.12
1	ln	181	VAL	N-CA-C	-5.21	105.46	110.72
1	28	75	GLU	O-C-N	-5.21	116.59	122.12
1	lB	209	ALA	O-C-N	-5.21	115.74	122.20
1	lQ	172	LEU	CA-C-N	5.21	127.78	120.28
1	lQ	172	LEU	C-N-CA	5.21	127.78	120.28
1	2j	18	ARG	CA-C-N	5.21	127.21	120.44
1	2j	18	ARG	C-N-CA	5.21	127.21	120.44
1	2m	141	ILE	CA-CB-CG1	5.21	119.26	110.40
1	2r	160	PRO	N-CA-C	5.21	118.78	111.33
1	2u	150	ILE	N-CA-C	-5.21	107.67	112.83
1	2z	177	ALA	N-CA-C	5.21	117.58	110.55
1	2C	166	ASP	N-CA-C	5.21	117.36	111.11
1	2O	198	CYS	CA-C-N	5.21	127.26	120.28
1	2O	198	CYS	C-N-CA	5.21	127.26	120.28
1	2V	160	PRO	N-CA-C	5.21	123.20	112.47
1	2Z	221	VAL	CA-C-O	5.21	125.57	119.89
1	3h	24	VAL	O-C-N	-5.21	116.61	121.87
1	3w	46	GLY	N-CA-C	-5.21	107.06	115.08
1	3D	100	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	3L	18	ARG	CA-C-O	5.21	125.96	119.97
1	3M	10	MET	O-C-N	-5.21	116.86	123.01
1	3W	197	ASP	N-CA-C	5.21	117.04	111.36
1	47	50	GLN	O-C-N	-5.21	116.21	122.15
1	4b	50	GLN	CA-C-N	5.21	127.22	120.44
1	4b	50	GLN	C-N-CA	5.21	127.22	120.44
1	4G	26	VAL	O-C-N	-5.21	116.81	121.87
1	4G	51	ASP	N-CA-CB	5.21	117.78	110.12
1	4K	52	LEU	CA-C-O	-5.21	115.00	120.63
1	4P	229	ARG	CB-CG-CD	5.21	123.29	111.30
1	4X	70	LYS	CA-C-O	-5.21	114.89	120.42
1	4X	187	GLU	CA-C-O	-5.21	115.35	120.82
1	54	103	ASP	CB-CG-OD1	5.21	130.39	118.40
1	58	28	GLU	CA-C-N	5.21	133.06	121.80
1	58	28	GLU	C-N-CA	5.21	133.06	121.80
1	5c	158	LYS	CB-CA-C	5.21	118.98	110.17
1	5f	130	TYR	CA-C-N	5.21	127.52	120.38
1	5f	130	TYR	C-N-CA	5.21	127.52	120.38
1	5l	179	GLN	CB-CG-CD	5.21	121.46	112.60
1	5A	214	MET	CG-SD-CE	-5.21	89.44	100.90
1	5R	54	THR	CA-C-N	5.21	127.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5R	54	THR	C-N-CA	5.21	127.26	120.28
1	61	91	ILE	CA-C-N	5.21	126.61	120.09
1	61	91	ILE	C-N-CA	5.21	126.61	120.09
1	6d	9	GLN	N-CA-CB	5.21	119.12	110.47
1	6s	98	GLU	CB-CA-C	5.21	117.66	109.27
1	6F	5	ASN	CA-CB-CG	5.21	117.81	112.60
1	6H	155	GLN	O-C-N	-5.21	117.14	123.03
1	6J	97	ARG	N-CA-CB	-5.21	102.37	110.29
1	6R	121	ASN	N-CA-CB	5.21	121.13	110.50
1	71	65	ALA	N-CA-C	5.21	116.96	111.28
1	72	114	GLN	N-CA-C	5.21	116.65	111.07
1	72	229	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	73	113	GLU	CA-C-O	5.21	125.94	120.42
1	78	96	MET	N-CA-CB	5.21	117.63	109.97
1	7e	16	SER	O-C-N	-5.21	115.80	121.53
1	7h	162	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	7h	212	GLU	CB-CA-C	5.21	119.06	110.88
1	7D	103	ASP	O-C-N	-5.21	116.46	122.09
1	7E	195	ASN	CA-C-O	-5.21	114.85	119.75
1	7I	39	MET	CG-SD-CE	-5.21	89.44	100.90
1	7L	230	VAL	N-CA-C	5.21	117.91	110.09
1	7O	66	MET	CA-C-N	5.21	127.26	120.28
1	7O	66	MET	C-N-CA	5.21	127.26	120.28
1	7P	1	PRO	CB-CA-C	5.21	120.00	110.10
1	7Q	176	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	7S	165	VAL	CA-C-N	5.21	127.21	120.44
1	7S	165	VAL	C-N-CA	5.21	127.21	120.44
1	7U	29	GLU	N-CA-C	5.21	119.73	112.90
1	7V	11	VAL	CA-C-O	5.21	126.60	120.71
1	7W	49	PRO	CB-CA-C	5.21	122.01	113.20
1	8a	129	ILE	N-CA-CB	5.21	116.65	110.55
1	8t	23	TRP	O-C-N	-5.21	116.61	122.03
1	8t	144	MET	CA-C-O	5.21	125.45	119.35
1	8v	11	VAL	O-C-N	-5.21	117.06	123.00
1	8y	154	ARG	NE-CZ-NH1	-5.21	116.29	121.50
1	8z	171	THR	O-C-N	-5.21	116.59	122.12
1	8W	168	PHE	CA-CB-CG	-5.21	108.59	113.80
1	8X	173	ARG	CD-NE-CZ	-5.21	117.11	124.40
1	92	57	ASN	CB-CG-ND2	5.21	124.22	116.40
1	92	226	HIS	CA-C-O	5.21	126.92	121.19
1	96	21	ASN	OD1-CG-ND2	5.21	127.81	122.60
1	9f	86	VAL	CA-C-O	5.21	126.37	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9l	53	ASN	O-C-N	-5.21	116.60	122.12
1	9o	158	LYS	CA-C-O	5.21	125.63	119.48
1	9N	195	ASN	O-C-N	-5.21	116.22	121.27
1	9O	135	ILE	O-C-N	-5.21	116.81	121.87
1	9Z	13	GLN	CA-C-N	5.21	128.62	120.75
1	9Z	13	GLN	C-N-CA	5.21	128.62	120.75
1	a9	154	ARG	CB-CA-C	-5.21	98.61	110.07
1	ar	216	THR	N-CA-CB	5.21	118.17	110.56
1	aF	74	ASN	CA-CB-CG	-5.21	107.39	112.60
1	aY	167	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	b2	11	VAL	O-C-N	-5.21	117.00	122.68
1	16	206	GLY	O-C-N	-5.21	116.56	121.77
1	b8	202	LEU	CA-C-O	5.21	125.96	119.97
1	be	144	MET	CA-C-O	5.21	126.29	120.82
1	br	168	PHE	CA-CB-CG	5.21	119.01	113.80
1	18	171	THR	CA-C-N	5.21	127.26	120.28
1	18	171	THR	C-N-CA	5.21	127.26	120.28
1	bw	76	GLU	CA-C-N	5.21	127.78	120.28
1	bw	76	GLU	C-N-CA	5.21	127.78	120.28
1	by	50	GLN	CA-C-N	5.21	127.69	120.29
1	by	50	GLN	C-N-CA	5.21	127.69	120.29
1	bA	228	ALA	N-CA-C	5.21	117.78	109.96
1	bG	119	THR	CB-CA-C	-5.21	101.39	110.09
1	bL	190	LEU	O-C-N	-5.21	116.59	122.12
1	bO	184	TRP	O-C-N	-5.21	115.27	122.46
1	bS	221	VAL	CA-C-O	5.21	126.89	120.74
1	c5	2	ILE	CB-CA-C	5.21	118.39	110.62
1	1d	161	PHE	N-CA-CB	5.21	118.28	109.78
1	cj	211	LEU	N-CA-C	-5.21	105.60	111.28
1	cq	107	THR	CA-C-O	5.21	126.47	120.90
1	cr	152	ASP	N-CA-C	-5.21	105.59	112.94
1	cw	24	VAL	N-CA-CB	-5.21	103.45	110.54
1	cx	79	GLU	O-C-N	5.21	127.51	122.09
1	cy	91	ILE	CA-C-N	5.21	127.89	120.49
1	cy	91	ILE	C-N-CA	5.21	127.89	120.49
1	cK	189	LEU	CA-C-O	-5.21	115.00	120.63
1	cP	229	ARG	O-C-N	-5.21	117.14	123.29
1	cR	213	GLU	O-C-N	-5.21	116.59	122.12
1	cT	48	THR	N-CA-C	5.21	118.21	110.39
1	d1	181	VAL	CA-C-O	5.21	126.38	120.85
1	d2	177	ALA	N-CA-CB	-5.21	103.20	110.29
1	d3	121	ASN	OD1-CG-ND2	-5.21	117.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1i	31	ALA	CA-C-O	5.21	127.96	120.51
1	d7	154	ARG	N-CA-C	-5.21	101.27	109.50
1	dj	28	GLU	N-CA-CB	5.21	117.52	109.91
1	dk	101	GLY	CA-C-N	5.21	128.23	120.31
1	dk	101	GLY	C-N-CA	5.21	128.23	120.31
1	dm	120	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	ds	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	dR	61	GLY	CA-C-N	5.21	129.54	122.19
1	dR	61	GLY	C-N-CA	5.21	129.54	122.19
1	dR	210	THR	CA-C-O	-5.21	115.88	121.56
1	dT	100	ARG	CG-CD-NE	-5.21	100.54	112.00
1	dX	133	TRP	CA-C-O	5.21	126.29	120.82
1	dZ	48	THR	CA-CB-OG1	5.21	117.42	109.60
1	e2	80	TRP	N-CA-C	5.21	116.96	111.28
1	e5	61	GLY	CA-C-N	5.21	129.96	122.40
1	e5	61	GLY	C-N-CA	5.21	129.96	122.40
1	ek	208	ALA	N-CA-CB	-5.21	103.37	110.56
1	em	196	PRO	N-CA-C	5.21	120.39	113.40
1	1r	204	ALA	N-CA-C	5.21	117.96	111.24
1	eA	101	GLY	N-CA-C	5.21	119.19	112.83
1	eD	40	PHE	N-CA-C	-5.21	105.68	111.36
1	eL	128	GLU	N-CA-CB	5.21	117.87	110.16
1	eT	92	GLU	CA-C-O	5.21	126.01	120.64
1	eU	34	PRO	CB-CA-C	-5.21	104.01	111.62
1	eV	143	ARG	CB-CG-CD	-5.21	99.31	111.30
1	eY	84	HIS	CA-CB-CG	-5.21	108.59	113.80
1	f1	12	HIS	CA-C-O	5.21	125.94	120.36
1	f8	47	ALA	CA-C-O	5.21	126.80	120.81
1	ff	164	TYR	N-CA-C	5.21	116.96	111.28
1	1w	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	fm	67	GLN	O-C-N	-5.21	116.21	122.15
1	fp	12	HIS	CA-CB-CG	5.21	119.01	113.80
1	fq	66	MET	O-C-N	-5.21	116.70	122.07
1	fr	32	PHE	CA-CB-CG	-5.21	108.59	113.80
1	1x	62	HIS	N-CA-CB	5.21	119.30	110.49
1	fw	62	HIS	ND1-CG-CD2	5.21	111.31	106.10
1	fK	92	GLU	N-CA-C	5.21	117.34	110.36
1	fQ	97	ARG	CA-C-N	5.21	127.63	120.39
1	fQ	97	ARG	C-N-CA	5.21	127.63	120.39
1	fU	63	GLN	CA-C-O	5.21	125.37	119.27
1	fV	51	ASP	CA-C-N	5.21	127.26	120.28
1	fV	51	ASP	C-N-CA	5.21	127.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	d	113	GLU	CA-CB-CG	5.21	124.52	114.10
1	p	143	ARG	CA-C-O	-5.21	115.32	120.90
1	p	182	LYS	CB-CA-C	-5.21	102.70	110.88
1	u	126	VAL	N-CA-C	5.21	116.56	110.62
1	C	134	ILE	CA-C-O	-5.21	115.65	121.17
1	F	10	MET	CG-SD-CE	-5.21	89.43	100.90
1	Q	189	LEU	CA-C-O	5.21	126.07	120.55
1	W	64	ALA	N-CA-CB	-5.21	102.45	110.16
1	5	189	LEU	N-CA-CB	-5.21	103.97	110.90
1	g9	219	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	gk	12	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	gs	91	ILE	CA-CB-CG2	-5.21	101.64	110.50
1	gM	50	GLN	N-CA-C	5.21	116.96	111.28
1	gY	179	GLN	N-CA-C	5.21	117.04	111.36
1	hb	221	VAL	N-CA-C	-5.21	100.98	108.48
1	he	32	PHE	O-C-N	-5.21	117.23	123.27
1	1I	156	GLY	CA-C-O	-5.21	114.07	121.52
1	hr	146	SER	CA-C-N	5.21	126.35	119.84
1	hr	146	SER	C-N-CA	5.21	126.35	119.84
1	hz	26	VAL	O-C-N	-5.21	116.80	121.91
1	1K	112	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	hF	14	ALA	CA-C-O	5.21	127.93	121.94
1	1N	74	ASN	CA-CB-CG	-5.21	107.39	112.60
1	ic	65	ALA	N-CA-CB	-5.21	102.46	110.12
1	it	145	TYR	CA-C-O	5.21	125.66	119.56
1	iB	153	ILE	CA-CB-CG1	5.21	119.26	110.40
1	1R	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	iZ	222	GLY	CA-C-N	5.21	130.05	121.87
1	iZ	222	GLY	C-N-CA	5.21	130.05	121.87
1	jk	63	GLN	CB-CG-CD	-5.21	103.74	112.60
1	jA	158	LYS	O-C-N	5.21	128.45	122.25
1	jE	209	ALA	N-CA-C	5.21	117.59	110.24
1	jT	19	THR	CA-C-O	5.21	126.07	120.55
1	jT	40	PHE	N-CA-C	-5.21	105.60	111.28
1	k0	178	SER	O-C-N	-5.21	116.61	122.97
1	kk	145	TYR	CD1-CG-CD2	5.21	125.92	118.10
1	kl	27	VAL	CA-C-N	5.21	127.26	120.28
1	kl	27	VAL	C-N-CA	5.21	127.26	120.28
1	kt	10	MET	N-CA-C	5.21	118.71	109.96
1	l1	45	GLU	N-CA-CB	5.21	117.73	109.71
1	l8	82	ARG	CA-C-N	5.21	127.26	120.28
1	l8	82	ARG	C-N-CA	5.21	127.26	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	la	185	MET	CA-C-N	5.21	127.78	120.28
1	la	185	MET	C-N-CA	5.21	127.78	120.28
1	lo	190	LEU	CA-C-O	5.21	126.07	120.55
1	28	204	ALA	N-CA-C	-5.21	105.28	111.69
1	lA	29	GLU	N-CA-CB	-5.21	102.41	110.07
1	lJ	18	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	lO	20	LEU	O-C-N	5.21	127.45	122.03
1	lP	32	PHE	CA-C-O	5.21	125.98	119.78
1	2b	214	MET	N-CA-C	-5.21	105.60	111.28
1	2i	59	VAL	CA-C-N	5.21	131.62	121.41
1	2i	59	VAL	C-N-CA	5.21	131.62	121.41
1	2k	28	GLU	CB-CA-C	-5.21	101.99	110.85
1	2v	200	THR	CA-C-O	5.21	126.29	120.82
1	2D	204	ALA	O-C-N	-5.21	115.35	122.33
1	2P	96	MET	CB-CA-C	5.21	119.06	110.88
1	2R	163	ASP	N-CA-C	5.21	117.04	111.36
1	39	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	3h	58	THR	CA-C-O	5.21	126.07	120.55
1	3s	137	GLY	CA-C-O	5.21	126.03	120.40
1	3B	219	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	3C	17	PRO	CA-C-N	5.21	127.69	120.29
1	3C	17	PRO	C-N-CA	5.21	127.69	120.29
1	3I	61	GLY	N-CA-C	5.21	125.53	113.18
1	3W	41	SER	O-C-N	5.21	127.44	122.07
1	42	142	VAL	CA-C-O	5.21	126.69	121.27
1	4c	148	THR	N-CA-C	5.21	117.78	109.96
1	4k	193	ASN	CA-C-O	5.21	125.33	119.18
1	4r	117	TRP	CD2-CE3-CZ3	5.21	125.37	118.60
1	4C	5	ASN	N-CA-C	-5.21	106.95	113.72
1	4H	157	PRO	CA-C-N	5.21	130.83	121.66
1	4H	157	PRO	C-N-CA	5.21	130.83	121.66
1	4W	84	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	55	152	ASP	O-C-N	-5.21	115.94	122.35
1	67	50	GLN	CB-CG-CD	5.21	121.46	112.60
1	68	112	GLN	N-CA-C	5.21	116.96	111.28
1	6c	3	VAL	N-CA-C	5.21	116.08	108.58
1	6y	197	ASP	N-CA-C	-5.21	106.92	113.28
1	6O	37	ILE	CA-C-N	5.21	124.53	118.85
1	6O	37	ILE	C-N-CA	5.21	124.53	118.85
1	6Y	50	GLN	N-CA-C	5.21	117.70	111.71
1	78	31	ALA	CB-CA-C	5.21	120.79	110.42
1	78	157	PRO	CA-C-N	5.21	130.39	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	78	157	PRO	C-N-CA	5.21	130.39	122.37
1	7p	72	THR	CA-C-O	5.21	126.07	120.55
1	7P	128	GLU	CA-C-O	-5.21	113.98	119.97
1	7X	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	8a	191	VAL	CA-C-O	-5.21	114.68	120.46
1	8p	161	PHE	O-C-N	-5.21	116.70	122.07
1	8T	149	SER	N-CA-CB	5.21	117.57	110.38
1	99	120	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	9j	141	ILE	N-CA-C	-5.21	105.25	110.30
1	9w	132	ARG	O-C-N	-5.21	116.60	122.12
1	9y	204	ALA	CA-C-N	5.21	127.57	120.54
1	9y	204	ALA	C-N-CA	5.21	127.57	120.54
1	9T	211	LEU	CA-C-O	-5.21	115.00	120.63
1	9X	18	ARG	CG-CD-NE	-5.21	100.54	112.00
1	a9	201	ILE	CA-C-N	5.21	127.72	120.63
1	a9	201	ILE	C-N-CA	5.21	127.72	120.63
1	ap	84	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	au	1	PRO	N-CA-CB	-5.21	97.27	103.00
1	aG	156	GLY	O-C-N	-5.21	116.56	121.77
1	aI	2	ILE	N-CA-CB	5.21	116.60	110.82
1	b6	154	ARG	CB-CA-C	5.21	121.53	110.07
1	bb	136	LEU	N-CA-CB	5.21	117.78	110.12
1	bx	42	ALA	CA-C-O	5.21	125.94	120.42
1	bG	128	GLU	O-C-N	-5.21	116.67	122.09
1	bH	146	SER	CA-C-N	5.21	124.53	118.85
1	bH	146	SER	C-N-CA	5.21	124.53	118.85
1	cb	84	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	1e	83	LEU	CA-C-O	5.21	126.07	120.55
1	ct	146	SER	O-C-N	-5.21	116.29	121.19
1	cG	167	ARG	NE-CZ-NH2	5.21	123.89	119.20
1	cQ	32	PHE	CA-CB-CG	-5.21	108.59	113.80
1	cT	51	ASP	CA-C-N	5.21	127.53	120.44
1	cT	51	ASP	C-N-CA	5.21	127.53	120.44
1	cW	20	LEU	CA-C-N	5.21	127.26	120.28
1	cW	20	LEU	C-N-CA	5.21	127.26	120.28
1	cY	121	ASN	CA-CB-CG	5.21	117.81	112.60
1	1i	15	ILE	CA-C-O	5.21	127.09	121.36
1	dd	165	VAL	N-CA-C	5.21	115.93	110.62
1	dm	41	SER	CB-CA-C	-5.21	102.14	110.79
1	dp	166	ASP	CA-C-O	5.21	126.07	120.55
1	ds	85	PRO	CB-CA-C	-5.21	104.72	111.39
1	dW	22	ALA	N-CA-C	-5.21	105.51	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ed	50	GLN	CA-C-N	5.21	127.26	120.28
1	ed	50	GLN	C-N-CA	5.21	127.26	120.28
1	et	150	ILE	CA-CB-CG1	5.21	119.26	110.40
1	ew	215	MET	CA-C-N	5.21	127.78	120.28
1	ew	215	MET	C-N-CA	5.21	127.78	120.28
1	ez	19	THR	CA-C-N	5.21	127.26	120.28
1	ez	19	THR	C-N-CA	5.21	127.26	120.28
1	eA	62	HIS	ND1-CG-CD2	5.21	111.31	106.10
1	eH	63	GLN	CA-C-N	5.21	127.21	120.44
1	eH	63	GLN	C-N-CA	5.21	127.21	120.44
1	eN	19	THR	O-C-N	5.21	128.31	122.22
1	fa	210	THR	N-CA-CB	5.21	117.70	109.83
1	fb	180	GLU	N-CA-C	5.21	116.64	111.07
1	fd	141	ILE	N-CA-CB	5.21	118.39	110.58
1	fg	98	GLU	CA-C-O	-5.21	115.45	119.46
1	fg	188	THR	N-CA-C	5.21	118.94	111.02
1	fq	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	fL	42	ALA	CA-C-N	5.21	127.52	120.38
1	fL	42	ALA	C-N-CA	5.21	127.52	120.38
1	fQ	47	ALA	O-C-N	-5.21	117.12	123.16
1	a	86	VAL	CB-CA-C	5.21	117.26	110.96
1	d	51	ASP	CA-C-N	5.21	128.23	120.31
1	d	51	ASP	C-N-CA	5.21	128.23	120.31
1	f	83	LEU	O-C-N	-5.21	115.35	122.33
1	k	138	LEU	N-CA-C	5.21	116.96	111.28
1	v	184	TRP	CB-CG-CD1	-5.21	119.08	126.90
1	gk	36	VAL	CA-CB-CG1	5.21	119.25	110.40
1	gm	38	PRO	CA-C-O	-5.21	111.71	119.00
1	gn	39	MET	O-C-N	5.21	127.43	122.07
1	gz	20	LEU	CB-CA-C	-5.21	102.70	110.88
1	gC	39	MET	CA-C-O	5.21	126.07	120.55
1	gC	86	VAL	CA-CB-CG1	5.21	119.26	110.40
1	h2	126	VAL	N-CA-C	5.21	115.83	110.36
1	h4	193	ASN	N-CA-C	-5.21	106.61	113.17
1	h9	26	VAL	CA-C-O	5.21	126.47	121.05
1	hb	42	ALA	N-CA-C	5.21	117.04	111.36
1	hk	202	LEU	N-CA-C	-5.21	105.50	111.07
1	hl	67	GLN	N-CA-C	5.21	117.36	111.11
1	hu	178	SER	CA-C-N	5.21	127.52	120.38
1	hu	178	SER	C-N-CA	5.21	127.52	120.38
1	hR	2	ILE	CA-CB-CG2	-5.21	101.65	110.50
1	i3	70	LYS	O-C-N	-5.21	115.86	122.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ih	175	GLU	N-CA-C	5.21	117.17	108.99
1	io	192	GLN	CG-CD-OE1	5.21	131.22	120.80
1	iu	114	GLN	CG-CD-NE2	5.21	124.21	116.40
1	iH	197	ASP	O-C-N	-5.21	115.33	122.46
1	iL	143	ARG	N-CA-C	5.21	117.04	111.36
1	iO	13	GLN	O-C-N	-5.21	117.03	123.33
1	iP	130	TYR	CA-C-N	5.21	127.26	120.28
1	iP	130	TYR	C-N-CA	5.21	127.26	120.28
1	iQ	195	ASN	CA-CB-CG	5.21	117.81	112.60
1	iR	129	ILE	O-C-N	-5.21	116.47	121.83
1	iW	31	ALA	CB-CA-C	5.21	120.78	110.42
1	iW	164	TYR	N-CA-C	5.21	117.86	111.82
1	j2	106	GLY	CA-C-N	5.21	127.21	120.44
1	j2	106	GLY	C-N-CA	5.21	127.21	120.44
1	jp	12	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	jx	75	GLU	CA-C-N	5.21	128.23	120.31
1	jx	75	GLU	C-N-CA	5.21	128.23	120.31
1	jP	173	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	jU	11	VAL	O-C-N	-5.21	117.00	122.83
1	jX	229	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	jY	119	THR	N-CA-CB	5.21	118.02	110.47
1	ki	20	LEU	CA-C-N	5.21	128.23	120.31
1	ki	20	LEU	C-N-CA	5.21	128.23	120.31
1	21	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	kn	217	ALA	N-CA-CB	-5.21	102.21	110.28
1	ku	146	SER	O-C-N	-5.21	115.33	121.32
1	kv	161	PHE	CA-C-N	5.21	128.63	120.82
1	kv	161	PHE	C-N-CA	5.21	128.63	120.82
1	kJ	97	ARG	N-CA-C	5.21	117.01	110.24
1	kJ	219	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	kM	82	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	24	84	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	kO	149	SER	CA-C-N	5.21	128.88	121.02
1	kO	149	SER	C-N-CA	5.21	128.88	121.02
1	kQ	143	ARG	CB-CG-CD	5.21	123.28	111.30
1	kQ	148	THR	O-C-N	-5.21	117.79	123.26
1	kW	108	THR	N-CA-C	-5.21	105.60	112.94
1	kW	133	TRP	CB-CG-CD1	5.21	134.71	126.90
1	kX	213	GLU	CA-C-N	5.21	127.26	120.28
1	kX	213	GLU	C-N-CA	5.21	127.26	120.28
1	lq	205	LEU	O-C-N	5.21	127.44	122.07
1	lD	139	ASN	OD1-CG-ND2	-5.21	117.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lD	195	ASN	CA-C-N	5.21	124.53	118.85
1	lD	195	ASN	C-N-CA	5.21	124.53	118.85
1	lF	15	ILE	CB-CA-C	5.21	117.17	111.08
1	2a	139	ASN	N-CA-C	5.21	117.86	111.82
1	2a	214	MET	CB-CA-C	5.21	119.14	110.81
1	lM	66	MET	CA-CB-CG	-5.21	103.68	114.10
1	lM	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	2b	181	VAL	CA-C-N	5.21	127.57	120.54
1	2b	181	VAL	C-N-CA	5.21	127.57	120.54
1	2d	226	HIS	N-CA-CB	5.21	119.29	110.49
1	2e	107	THR	O-C-N	-5.21	116.67	122.09
1	2e	173	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	2f	143	ARG	O-C-N	-5.21	116.47	122.09
1	2p	162	ARG	N-CA-CB	5.21	117.56	110.01
1	2q	165	VAL	N-CA-C	5.21	115.93	110.62
1	2G	219	GLN	CA-C-N	5.21	125.62	119.94
1	2G	219	GLN	C-N-CA	5.21	125.62	119.94
1	2V	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	2X	37	ILE	O-C-N	5.21	123.75	120.42
1	31	162	ARG	CA-C-N	5.21	127.26	120.28
1	31	162	ARG	C-N-CA	5.21	127.26	120.28
1	35	102	SER	CA-C-N	5.21	127.69	120.29
1	35	102	SER	C-N-CA	5.21	127.69	120.29
1	3a	62	HIS	ND1-CG-CD2	5.21	111.31	106.10
1	3e	79	GLU	CA-C-N	5.21	127.69	120.29
1	3e	79	GLU	C-N-CA	5.21	127.69	120.29
1	3k	67	GLN	CB-CG-CD	-5.21	103.75	112.60
1	3p	224	PRO	CA-N-CD	-5.21	104.71	112.00
1	3t	226	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	3C	197	ASP	CA-C-O	5.21	126.02	120.24
1	3F	87	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	45	40	PHE	O-C-N	-5.21	116.60	122.12
1	4i	26	VAL	CB-CA-C	-5.21	105.30	111.97
1	4k	71	GLU	N-CA-C	5.21	117.04	111.36
1	4l	92	GLU	O-C-N	-5.21	115.33	121.32
1	4s	23	TRP	N-CA-CB	5.21	117.87	110.16
1	4w	97	ARG	NE-CZ-NH1	-5.21	116.29	121.50
1	4z	15	ILE	N-CA-C	5.21	116.12	109.30
1	4D	192	GLN	N-CA-C	5.21	116.96	111.28
1	4G	145	TYR	O-C-N	-5.21	115.83	122.34
1	4I	70	LYS	N-CA-CB	5.21	118.24	110.22
1	4I	77	ALA	CA-C-N	5.21	127.69	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4I	77	ALA	C-N-CA	5.21	127.69	120.29
1	4U	86	VAL	CA-C-O	5.21	126.74	120.65
1	4U	199	LYS	N-CA-C	5.21	116.96	111.28
1	4W	165	VAL	CA-CB-CG1	5.21	119.25	110.40
1	51	36	VAL	CA-C-O	-5.21	115.53	120.95
1	5o	78	ALA	N-CA-CB	5.21	117.78	110.12
1	5u	141	ILE	O-C-N	-5.21	116.47	121.83
1	68	20	LEU	CA-C-N	5.21	127.26	120.28
1	68	20	LEU	C-N-CA	5.21	127.26	120.28
1	6u	227	LYS	CA-C-N	5.21	127.78	120.28
1	6u	227	LYS	C-N-CA	5.21	127.78	120.28
1	6B	191	VAL	CA-C-N	5.21	127.21	120.44
1	6B	191	VAL	C-N-CA	5.21	127.21	120.44
1	6H	176	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	6H	210	THR	O-C-N	-5.21	116.71	122.86
1	6L	191	VAL	N-CA-C	5.21	115.93	110.62
1	6S	7	GLN	O-C-N	-5.21	117.65	123.48
1	6T	203	LYS	N-CA-C	5.21	116.64	111.07
1	71	26	VAL	N-CA-C	5.21	115.93	110.62
1	71	75	GLU	CA-C-N	5.21	127.26	120.28
1	71	75	GLU	C-N-CA	5.21	127.26	120.28
1	72	87	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	72	91	ILE	N-CA-CB	5.21	117.11	110.13
1	73	96	MET	O-C-N	-5.21	116.54	122.89
1	76	1	PRO	CA-C-N	5.21	129.65	123.19
1	76	1	PRO	C-N-CA	5.21	129.65	123.19
1	78	193	ASN	N-CA-C	-5.21	106.61	113.17
1	7b	98	GLU	CA-C-O	5.21	126.38	120.70
1	7b	198	CYS	N-CA-C	5.21	117.70	111.71
1	7c	154	ARG	CA-C-O	5.21	126.58	120.75
1	7i	187	GLU	CB-CA-C	5.21	119.44	110.79
1	7k	3	VAL	N-CA-CB	5.21	118.26	110.13
1	7o	18	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	7q	7	GLN	N-CA-C	5.21	117.25	110.43
1	7w	50	GLN	CB-CG-CD	5.21	121.45	112.60
1	7P	14	ALA	CA-C-O	-5.21	116.05	121.99
1	81	55	MET	N-CA-C	5.21	117.63	111.33
1	82	175	GLU	CA-CB-CG	5.21	124.52	114.10
1	86	2	ILE	N-CA-C	5.21	115.59	107.99
1	87	53	ASN	CA-C-O	-5.21	115.03	120.55
1	89	99	PRO	CB-CA-C	5.21	118.20	111.64
1	8c	93	PRO	CA-N-CD	-5.21	104.71	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8e	180	GLU	N-CA-C	5.21	117.63	111.33
1	8q	127	GLY	CA-C-N	5.21	127.52	120.44
1	8q	127	GLY	C-N-CA	5.21	127.52	120.44
1	8t	63	GLN	CG-CD-NE2	5.21	124.21	116.40
1	8t	200	THR	CA-C-N	5.21	127.23	120.56
1	8t	200	THR	C-N-CA	5.21	127.23	120.56
1	8u	164	TYR	N-CA-C	5.21	117.63	111.33
1	8K	56	LEU	O-C-N	-5.21	116.21	122.15
1	8L	41	SER	CA-C-N	5.21	127.57	120.54
1	8L	41	SER	C-N-CA	5.21	127.57	120.54
1	8M	65	ALA	N-CA-CB	-5.21	102.47	110.12
1	8P	75	GLU	CB-CG-CD	5.21	121.45	112.60
1	8T	223	GLY	CA-C-N	5.21	126.35	119.84
1	8T	223	GLY	C-N-CA	5.21	126.35	119.84
1	97	153	ILE	N-CA-CB	5.21	117.40	110.26
1	9a	212	GLU	N-CA-C	5.21	117.04	111.36
1	9b	49	PRO	CA-C-N	5.21	128.23	120.31
1	9b	49	PRO	C-N-CA	5.21	128.23	120.31
1	9x	105	ALA	N-CA-CB	-5.21	101.91	110.40
1	9C	164	TYR	N-CA-C	5.21	117.36	111.11
1	9G	178	SER	N-CA-C	5.21	117.25	110.43
1	9N	226	HIS	O-C-N	-5.21	116.95	123.04
1	9O	130	TYR	N-CA-C	5.21	117.04	111.36
1	Y	34	PRO	O-C-N	-5.21	115.61	122.64
1	9T	162	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	9Y	2	ILE	N-CA-CB	5.21	118.41	111.64
1	9Z	4	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	a1	84	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	a4	4	GLN	CB-CA-C	5.21	120.78	110.42
1	ae	42	ALA	CA-C-O	5.21	125.78	119.11
1	af	128	GLU	N-CA-CB	5.21	117.87	110.16
1	ak	63	GLN	O-C-N	-5.21	116.67	122.09
1	an	95	GLN	CB-CA-C	-5.21	101.08	109.72
1	as	154	ARG	CA-C-O	-5.21	114.13	120.54
1	aG	169	TYR	O-C-N	-5.21	116.21	122.15
1	aN	53	ASN	O-C-N	-5.21	116.60	122.12
1	aS	24	VAL	N-CA-CB	5.21	117.62	110.54
1	aU	41	SER	N-CA-CB	5.21	117.56	110.01
1	b1	164	TYR	N-CA-CB	-5.21	102.46	110.12
1	b3	1	PRO	N-CA-CB	5.21	108.73	103.00
1	b4	52	LEU	N-CA-C	5.21	117.86	111.82
1	b7	155	GLN	OE1-CD-NE2	-5.21	117.39	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b8	84	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	ba	107	THR	CA-CB-CG2	5.21	119.35	110.50
1	bf	84	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	bg	84	HIS	CA-C-O	-5.21	115.49	119.71
1	17	62	HIS	CB-CG-CD2	-5.21	124.43	131.20
1	bi	173	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	bl	199	LYS	N-CA-CB	-5.21	102.46	110.12
1	bo	64	ALA	N-CA-C	5.21	116.96	111.28
1	18	118	MET	N-CA-CB	5.21	118.89	110.40
1	18	203	LYS	O-C-N	-5.21	116.60	122.12
1	19	98	GLU	CA-C-N	5.21	125.12	119.76
1	19	98	GLU	C-N-CA	5.21	125.12	119.76
1	bI	205	LEU	CA-C-O	5.21	125.58	119.28
1	bN	17	PRO	N-CA-C	-5.21	106.75	113.57
1	bS	112	GLN	O-C-N	5.21	127.64	122.12
1	bZ	229	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	c9	92	GLU	CB-CG-CD	-5.21	103.75	112.60
1	ca	27	VAL	N-CA-CB	5.21	118.39	110.58
1	cb	59	VAL	CA-CB-CG2	-5.21	101.55	110.40
1	ci	100	ARG	NH1-CZ-NH2	5.21	126.07	119.30
1	cB	162	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	cD	66	MET	CA-C-O	5.21	126.29	120.82
1	cI	17	PRO	CA-C-N	5.21	127.26	120.28
1	cI	17	PRO	C-N-CA	5.21	127.26	120.28
1	cK	208	ALA	CA-C-N	5.21	128.27	120.87
1	cK	208	ALA	C-N-CA	5.21	128.27	120.87
1	cO	69	LEU	CA-C-N	5.21	127.26	120.28
1	cO	69	LEU	C-N-CA	5.21	127.26	120.28
1	do	12	HIS	CB-CG-CD2	-5.21	124.43	131.20
1	do	126	VAL	O-C-N	-5.21	116.82	121.87
1	ds	14	ALA	N-CA-C	5.21	121.89	110.80
1	dt	78	ALA	CA-C-O	5.21	125.94	120.42
1	dt	96	MET	CA-C-N	5.21	131.49	121.54
1	dt	96	MET	C-N-CA	5.21	131.49	121.54
1	dC	83	LEU	N-CA-C	5.21	116.96	111.28
1	dF	174	ALA	N-CA-C	-5.21	105.64	112.41
1	dK	82	ARG	N-CA-C	5.21	117.63	111.33
1	dL	204	ALA	CA-C-O	5.21	124.78	119.05
1	e0	19	THR	N-CA-CB	5.21	117.56	110.01
1	e4	135	ILE	CB-CA-C	5.21	119.17	112.14
1	e7	48	THR	CA-C-O	-5.21	115.14	120.87
1	1q	167	ARG	N-CA-CB	-5.21	102.20	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ep	100	ARG	CA-CB-CG	-5.21	103.68	114.10
1	ew	60	GLY	O-C-N	-5.21	115.93	122.70
1	eB	154	ARG	NE-CZ-NH2	-5.21	114.51	119.20
1	1s	197	ASP	CA-CB-CG	-5.21	107.39	112.60
1	eG	123	PRO	N-CD-CG	5.21	111.01	103.20
1	eH	75	GLU	CA-C-N	5.21	127.52	120.38
1	eH	75	GLU	C-N-CA	5.21	127.52	120.38
1	eI	123	PRO	CA-C-N	-5.21	118.32	122.85
1	eI	123	PRO	C-N-CA	-5.21	118.32	122.85
1	eZ	224	PRO	CA-C-O	5.21	127.25	121.36
1	fc	4	GLN	CA-C-N	5.21	128.24	120.90
1	fc	4	GLN	C-N-CA	5.21	128.24	120.90
1	fg	157	PRO	CA-C-O	5.21	127.00	119.34
1	fk	4	GLN	N-CA-CB	5.21	117.70	109.83
1	fk	70	LYS	O-C-N	-5.21	116.47	122.09
1	fp	167	ARG	CA-C-O	5.21	126.25	120.63
1	fp	212	GLU	O-C-N	-5.21	116.67	122.09
1	fs	211	LEU	N-CA-C	5.21	117.63	111.33
1	fv	115	ILE	N-CA-C	5.21	115.42	110.42
1	fB	165	VAL	CB-CA-C	-5.21	105.21	111.88
1	fQ	182	LYS	N-CA-CB	5.21	118.37	110.14
1	fS	171	THR	O-C-N	-5.21	114.96	122.36
1	fW	87	HIS	CA-CB-CG	-5.21	108.59	113.80
1	g0	210	THR	CA-C-N	5.21	127.26	120.28
1	g0	210	THR	C-N-CA	5.21	127.26	120.28
1	g1	150	ILE	CA-C-O	5.21	126.14	120.57
1	g2	37	ILE	N-CA-C	5.21	120.16	112.61
1	h	169	TYR	N-CA-C	5.21	116.64	111.07
1	h	179	GLN	CA-C-N	5.21	127.26	120.28
1	h	179	GLN	C-N-CA	5.21	127.26	120.28
1	z	148	THR	CA-CB-OG1	5.21	117.41	109.60
1	A	179	GLN	CA-C-O	-5.21	115.03	120.55
1	B	202	LEU	O-C-N	-5.21	116.21	122.15
1	E	19	THR	O-C-N	-5.21	116.60	122.12
1	G	202	LEU	O-C-N	-5.21	115.86	122.27
1	G	224	PRO	CB-CA-C	5.21	120.15	111.56
1	4	70	LYS	CA-C-N	5.21	127.53	120.65
1	4	70	LYS	C-N-CA	5.21	127.53	120.65
1	Q	55	MET	N-CA-C	5.21	116.64	111.07
1	S	11	VAL	CA-CB-CG2	-5.21	101.54	110.40
1	g8	24	VAL	CA-C-O	5.21	126.47	121.05
1	gl	158	LYS	N-CA-C	5.21	118.94	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gm	133	TRP	CA-C-N	5.21	127.32	120.60
1	gm	133	TRP	C-N-CA	5.21	127.32	120.60
1	gx	5	ASN	CA-C-N	5.21	131.49	121.54
1	gx	5	ASN	C-N-CA	5.21	131.49	121.54
1	gA	18	ARG	CG-CD-NE	-5.21	100.55	112.00
1	1E	20	LEU	N-CA-C	5.21	116.64	111.07
1	1E	21	ASN	CB-CA-C	5.21	119.06	110.88
1	1E	162	ARG	CA-C-N	5.21	128.22	120.31
1	1E	162	ARG	C-N-CA	5.21	128.22	120.31
1	gH	41	SER	N-CA-C	5.21	119.96	111.37
1	1F	183	ASN	N-CA-CB	5.21	117.77	110.12
1	gN	175	GLU	CA-CB-CG	5.21	124.51	114.10
1	gS	88	ALA	O-C-N	-5.21	115.07	122.15
1	gY	218	CYS	N-CA-CB	5.21	119.29	110.49
1	h0	166	ASP	CA-C-O	5.21	126.29	120.82
1	1H	117	TRP	N-CA-C	5.21	116.96	111.28
1	h9	84	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	hb	178	SER	O-C-N	-5.21	116.41	122.81
1	he	218	CYS	CA-C-O	5.21	127.95	120.51
1	hl	139	ASN	CA-C-N	5.21	127.26	120.28
1	hl	139	ASN	C-N-CA	5.21	127.26	120.28
1	hp	191	VAL	CA-C-O	5.21	125.50	119.36
1	hv	177	ALA	CA-C-O	5.21	126.88	121.15
1	hw	100	ARG	CA-C-N	5.21	125.86	120.03
1	hw	100	ARG	C-N-CA	5.21	125.86	120.03
1	hy	124	ILE	CA-C-O	-5.21	116.08	119.15
1	hy	126	VAL	CA-C-N	5.21	125.72	119.94
1	hy	126	VAL	C-N-CA	5.21	125.72	119.94
1	hz	129	ILE	CA-C-O	-5.21	115.65	121.17
1	1K	136	LEU	O-C-N	-5.21	116.60	122.12
1	hC	36	VAL	CA-C-N	5.21	131.76	122.13
1	hC	36	VAL	C-N-CA	5.21	131.76	122.13
1	hH	100	ARG	NE-CZ-NH1	-5.21	116.29	121.50
1	hS	172	LEU	O-C-N	-5.21	115.87	122.27
1	i3	133	TRP	CB-CG-CD2	-5.21	119.51	126.80
1	ii	157	PRO	N-CA-C	5.21	121.36	113.81
1	ii	211	LEU	CA-C-N	5.21	127.26	120.28
1	ii	211	LEU	C-N-CA	5.21	127.26	120.28
1	ij	224	PRO	O-C-N	-5.21	115.61	122.64
1	ik	97	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	1P	181	VAL	N-CA-CB	5.21	117.62	110.54
1	iy	21	ASN	CA-CB-CG	5.21	117.81	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iI	31	ALA	N-CA-CB	-5.21	102.45	110.16
1	j0	166	ASP	O-C-N	-5.21	116.21	122.15
1	j0	203	LYS	CB-CA-C	5.21	119.43	110.79
1	j8	181	VAL	CA-C-N	5.21	127.68	120.29
1	j8	181	VAL	C-N-CA	5.21	127.68	120.29
1	jc	195	ASN	CA-C-N	5.21	125.01	119.28
1	jc	195	ASN	C-N-CA	5.21	125.01	119.28
1	jk	204	ALA	CA-C-N	5.21	127.26	120.28
1	jk	204	ALA	C-N-CA	5.21	127.26	120.28
1	1W	99	PRO	CA-C-O	-5.21	115.48	121.36
1	jy	35	GLU	O-C-N	-5.21	115.87	122.27
1	jC	142	VAL	CA-C-N	5.21	127.57	120.54
1	jC	142	VAL	C-N-CA	5.21	127.57	120.54
1	jF	154	ARG	CB-CG-CD	5.21	123.27	111.30
1	jO	142	VAL	N-CA-C	-5.21	105.64	110.53
1	jU	28	GLU	O-C-N	-5.21	116.60	122.12
1	jX	11	VAL	N-CA-C	5.21	115.87	108.42
1	k5	11	VAL	N-CA-C	5.21	115.98	108.48
1	kf	53	ASN	CA-CB-CG	-5.21	107.39	112.60
1	kh	164	TYR	N-CA-CB	-5.21	102.47	110.12
1	ki	53	ASN	CA-C-N	5.21	127.26	120.28
1	ki	53	ASN	C-N-CA	5.21	127.26	120.28
1	ki	114	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	ki	200	THR	N-CA-CB	5.21	117.77	110.12
1	kj	52	LEU	N-CA-C	5.21	116.95	111.28
1	kk	91	ILE	O-C-N	-5.21	117.06	123.00
1	kk	161	PHE	CB-CA-C	5.21	120.67	110.67
1	kt	121	ASN	N-CA-C	-5.21	101.07	109.40
1	ku	80	TRP	N-CA-C	5.21	116.64	111.07
1	kF	27	VAL	CA-CB-CG1	5.21	119.25	110.40
1	kG	89	GLY	CA-C-N	5.21	125.20	119.89
1	kG	89	GLY	C-N-CA	5.21	125.20	119.89
1	kN	205	LEU	N-CA-CB	-5.21	103.00	110.65
1	kY	87	HIS	N-CA-C	-5.21	107.31	113.97
1	kZ	85	PRO	N-CA-CB	-5.21	99.35	102.79
1	l4	24	VAL	CA-C-N	5.21	127.26	120.28
1	l4	24	VAL	C-N-CA	5.21	127.26	120.28
1	l8	100	ARG	CA-C-N	5.21	125.86	120.03
1	l8	100	ARG	C-N-CA	5.21	125.86	120.03
1	lm	16	SER	O-C-N	-5.21	115.80	121.53
1	lD	76	GLU	CA-C-O	5.21	125.96	119.97
1	lF	202	LEU	CB-CA-C	-5.21	102.71	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lP	66	MET	N-CA-CB	5.21	117.77	110.12
1	2o	166	ASP	CA-C-N	5.21	127.26	120.28
1	2o	166	ASP	C-N-CA	5.21	127.26	120.28
1	2D	162	ARG	CA-C-N	5.21	127.26	120.28
1	2D	162	ARG	C-N-CA	5.21	127.26	120.28
1	2E	186	THR	CA-C-O	5.21	126.07	120.55
1	2E	219	GLN	CA-C-N	5.21	130.19	120.87
1	2E	219	GLN	C-N-CA	5.21	130.19	120.87
1	2K	123	PRO	N-CA-CB	5.21	107.69	103.32
1	2T	140	LYS	N-CA-C	5.21	117.36	111.11
1	2W	153	ILE	CA-C-O	-5.21	115.66	121.23
1	32	20	LEU	CA-C-N	5.21	128.22	120.31
1	32	20	LEU	C-N-CA	5.21	128.22	120.31
1	39	71	GLU	N-CA-C	5.21	116.96	111.28
1	3s	20	LEU	N-CA-C	5.21	117.37	111.02
1	3X	105	ALA	CA-C-O	5.21	125.36	119.27
1	46	179	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	4a	193	ASN	CA-C-O	5.21	125.73	119.43
1	4c	82	ARG	NE-CZ-NH2	5.21	123.89	119.20
1	4m	191	VAL	O-C-N	-5.21	114.97	121.84
1	4n	27	VAL	CB-CA-C	5.21	119.17	112.14
1	4x	64	ALA	N-CA-C	5.21	116.95	111.28
1	4x	157	PRO	CA-N-CD	-5.21	104.71	112.00
1	4z	150	ILE	CA-C-N	5.21	127.26	120.28
1	4z	150	ILE	C-N-CA	5.21	127.26	120.28
1	4D	226	HIS	O-C-N	-5.21	116.60	122.12
1	4U	163	ASP	N-CA-C	5.21	117.36	111.11
1	5a	214	MET	CB-CA-C	-5.21	102.71	110.88
1	5c	40	PHE	CA-CB-CG	-5.21	108.59	113.80
1	5f	23	TRP	CA-CB-CG	5.21	123.49	113.60
1	5o	132	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	5p	111	LEU	CB-CA-C	-5.21	102.15	110.79
1	5D	4	GLN	OE1-CD-NE2	5.21	127.81	122.60
1	6b	212	GLU	CA-C-O	5.21	126.75	120.92
1	6g	204	ALA	N-CA-C	5.21	116.95	111.28
1	6k	109	SER	CB-CA-C	5.21	120.03	110.24
1	6l	21	ASN	CB-CG-OD1	-5.21	110.39	120.80
1	6m	19	THR	O-C-N	-5.21	116.51	122.08
1	6r	176	GLN	CA-C-O	5.21	125.82	119.78
1	6X	26	VAL	CA-CB-CG1	5.21	119.25	110.40
1	76	50	GLN	N-CA-C	5.21	116.64	111.07
1	79	154	ARG	NE-CZ-NH2	5.21	123.89	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7c	167	ARG	NE-CZ-NH1	5.21	126.71	121.50
1	7d	84	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	7g	210	THR	N-CA-C	5.21	118.14	110.59
1	7n	19	THR	OG1-CB-CG2	-5.21	98.89	109.30
1	7o	104	ILE	O-C-N	-5.21	116.82	121.87
1	7q	154	ARG	CG-CD-NE	-5.21	100.55	112.00
1	7y	123	PRO	CB-CA-C	5.21	117.89	111.23
1	7B	12	HIS	ND1-CE1-NE2	5.21	113.61	108.40
1	7D	165	VAL	CA-C-N	5.21	127.21	120.44
1	7D	165	VAL	C-N-CA	5.21	127.21	120.44
1	7J	128	GLU	N-CA-C	5.21	116.95	111.28
1	7L	4	GLN	CB-CA-C	5.21	120.78	110.42
1	7L	86	VAL	O-C-N	-5.21	116.06	122.57
1	7V	126	VAL	O-C-N	-5.21	116.79	121.89
1	7W	216	THR	CA-C-N	5.21	128.26	120.87
1	7W	216	THR	C-N-CA	5.21	128.26	120.87
1	85	12	HIS	N-CA-C	5.21	117.77	109.96
1	8g	53	ASN	CA-C-O	5.21	126.07	120.55
1	8k	53	ASN	CA-C-N	5.21	127.21	120.44
1	8k	53	ASN	C-N-CA	5.21	127.21	120.44
1	8B	42	ALA	CB-CA-C	-5.21	102.15	110.79
1	8D	98	GLU	O-C-N	-5.21	115.60	121.43
1	8K	117	TRP	CA-C-N	5.21	129.53	120.68
1	8K	117	TRP	C-N-CA	5.21	129.53	120.68
1	8L	167	ARG	CD-NE-CZ	5.21	131.69	124.40
1	8R	179	GLN	CB-CG-CD	-5.21	103.75	112.60
1	8S	128	GLU	CG-CD-OE2	5.21	130.38	118.40
1	8X	104	ILE	CB-CG1-CD1	5.21	124.73	113.80
1	96	188	THR	N-CA-C	5.21	117.03	111.36
1	99	92	GLU	N-CA-C	5.21	117.08	109.84
1	9k	66	MET	CG-SD-CE	-5.21	89.45	100.90
1	9l	190	LEU	CA-C-O	5.21	126.07	120.55
1	9p	171	THR	CA-CB-CG2	5.21	119.35	110.50
1	9L	112	GLN	N-CA-C	5.21	117.36	111.11
1	9O	219	GLN	CB-CG-CD	5.21	121.45	112.60
1	9V	47	ALA	N-CA-C	5.21	117.78	110.23
1	a5	120	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	a9	161	PHE	CA-C-N	5.21	127.57	120.54
1	a9	161	PHE	C-N-CA	5.21	127.57	120.54
1	ao	168	PHE	O-C-N	-5.21	116.47	122.09
1	12	24	VAL	O-C-N	5.21	126.92	121.87
1	ax	62	HIS	ND1-CE1-NE2	5.21	113.61	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	41	SER	O-C-N	-5.21	115.87	122.27
1	13	166	ASP	CA-C-O	5.21	126.29	120.82
1	aE	49	PRO	N-CA-C	5.21	121.36	113.81
1	aK	119	THR	O-C-N	-5.21	116.05	122.25
1	aN	131	LYS	CA-C-N	5.21	127.26	120.28
1	aN	131	LYS	C-N-CA	5.21	127.26	120.28
1	aO	229	ARG	NH1-CZ-NH2	5.21	126.07	119.30
1	aX	36	VAL	CA-C-N	5.21	125.43	120.43
1	aX	36	VAL	C-N-CA	5.21	125.43	120.43
1	b3	23	TRP	CA-C-O	-5.21	115.35	120.82
1	b8	26	VAL	N-CA-CB	-5.21	104.46	110.55
1	bf	186	THR	N-CA-C	5.21	116.95	111.28
1	bs	49	PRO	N-CA-CB	5.21	109.20	103.26
1	bB	45	GLU	CA-C-O	-5.21	115.33	120.90
1	bB	213	GLU	CA-C-O	5.21	125.77	119.31
1	bF	15	ILE	N-CA-C	5.21	120.17	109.34
1	bF	131	LYS	CA-C-O	-5.21	115.03	120.55
1	bJ	97	ARG	CD-NE-CZ	5.21	131.69	124.40
1	bW	84	HIS	CA-C-O	-5.21	114.73	119.62
1	bY	99	PRO	CA-C-N	5.21	132.37	123.05
1	bY	99	PRO	C-N-CA	5.21	132.37	123.05
1	c1	109	SER	O-C-N	-5.21	116.87	123.17
1	1c	177	ALA	CA-C-N	5.21	128.47	120.82
1	1c	177	ALA	C-N-CA	5.21	128.47	120.82
1	c7	84	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	cf	50	GLN	N-CA-C	5.21	116.96	111.28
1	cf	117	TRP	CA-C-N	5.21	127.26	120.28
1	cf	117	TRP	C-N-CA	5.21	127.26	120.28
1	ch	228	ALA	N-CA-CB	-5.21	102.52	110.49
1	cq	135	ILE	CA-C-N	5.21	127.21	120.44
1	cq	135	ILE	C-N-CA	5.21	127.21	120.44
1	cu	176	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	cB	123	PRO	CA-C-O	-5.21	115.66	122.12
1	cQ	1	PRO	CA-C-N	5.21	127.48	120.50
1	cQ	1	PRO	C-N-CA	5.21	127.48	120.50
1	cS	39	MET	CA-C-N	5.21	127.57	120.54
1	cS	39	MET	C-N-CA	5.21	127.57	120.54
1	cU	181	VAL	O-C-N	-5.21	116.81	121.91
1	cZ	56	LEU	N-CA-C	5.21	116.95	111.28
1	1i	182	LYS	CA-C-N	5.21	128.22	120.31
1	1i	182	LYS	C-N-CA	5.21	128.22	120.31
1	da	65	ALA	N-CA-CB	-5.21	101.75	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dc	230	VAL	O-C-N	-5.21	117.05	123.09
1	df	20	LEU	CA-C-N	5.21	127.57	120.54
1	df	20	LEU	C-N-CA	5.21	127.57	120.54
1	dl	48	THR	N-CA-CB	5.21	116.97	109.78
1	dm	214	MET	N-CA-C	5.21	118.89	112.54
1	do	150	ILE	CA-C-O	5.21	126.36	120.95
1	ds	15	ILE	N-CA-C	5.21	116.12	109.30
1	dv	160	PRO	CA-C-O	-5.21	115.60	121.43
1	dy	120	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
1	1o	228	ALA	CA-C-O	5.21	127.07	121.55
1	e5	217	ALA	O-C-N	5.21	129.06	122.65
1	e6	132	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	ed	81	ASP	CA-C-O	5.21	125.58	119.28
1	ev	56	LEU	O-C-N	-5.21	116.71	122.07
1	eE	72	THR	N-CA-CB	5.21	117.86	110.16
1	eH	200	THR	O-C-N	-5.21	116.60	122.12
1	1t	90	PRO	N-CD-CG	-5.21	95.39	103.20
1	f1	62	HIS	ND1-CG-CD2	5.21	111.31	106.10
1	f1	64	ALA	CA-C-O	5.21	125.94	120.42
1	fe	79	GLU	CA-CB-CG	5.21	124.52	114.10
1	1y	202	LEU	O-C-N	-5.21	115.86	122.27
1	1y	229	ARG	NH1-CZ-NH2	-5.21	112.53	119.30
1	fK	22	ALA	N-CA-CB	-5.21	102.47	110.12
1	fY	32	PHE	CA-C-N	5.21	130.59	122.26
1	fY	32	PHE	C-N-CA	5.21	130.59	122.26
1	g3	81	ASP	O-C-N	-5.21	116.21	122.15
1	c	64	ALA	CA-C-N	5.21	127.26	120.28
1	c	64	ALA	C-N-CA	5.21	127.26	120.28
1	l	196	PRO	CA-C-N	5.21	127.57	120.54
1	l	196	PRO	C-N-CA	5.21	127.57	120.54
1	m	107	THR	CA-CB-OG1	5.21	117.41	109.60
1	s	96	MET	CG-SD-CE	-5.21	89.45	100.90
1	u	54	THR	CA-CB-OG1	5.21	117.41	109.60
1	y	135	ILE	CB-CA-C	-5.21	105.11	112.14
1	N	125	PRO	CA-C-N	5.21	128.69	120.47
1	N	125	PRO	C-N-CA	5.21	128.69	120.47
1	R	166	ASP	CB-CA-C	5.21	119.14	110.81
1	gd	185	MET	CG-SD-CE	-5.21	89.45	100.90
1	1D	108	THR	CA-CB-OG1	5.21	117.41	109.60
1	gs	157	PRO	N-CA-C	5.21	121.50	113.75
1	gD	120	HIS	N-CA-C	-5.21	103.17	110.35
1	gM	33	SER	N-CA-C	-5.21	103.44	108.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gS	89	GLY	O-C-N	-5.21	116.56	121.77
1	gV	184	TRP	N-CA-C	5.21	117.86	111.82
1	1G	7	GLN	CB-CG-CD	5.21	121.45	112.60
1	hu	40	PHE	CA-C-O	-5.21	114.46	120.24
1	i0	193	ASN	CA-C-N	5.21	129.11	120.94
1	i0	193	ASN	C-N-CA	5.21	129.11	120.94
1	ia	4	GLN	CA-C-O	5.21	125.08	119.15
1	ii	39	MET	N-CA-C	5.21	116.95	111.28
1	it	87	HIS	CA-C-O	-5.21	115.28	121.16
1	1Q	95	GLN	OE1-CD-NE2	-5.21	117.39	122.60
1	1S	6	LEU	N-CA-C	5.21	118.73	112.38
1	iY	75	GLU	N-CA-C	5.21	116.64	111.07
1	j6	118	MET	O-C-N	-5.21	115.36	122.33
1	j9	78	ALA	CA-C-N	5.21	127.57	120.54
1	j9	78	ALA	C-N-CA	5.21	127.57	120.54
1	jA	136	LEU	CA-C-N	5.21	125.87	119.99
1	jA	136	LEU	C-N-CA	5.21	125.87	119.99
1	jA	181	VAL	CA-C-O	5.21	125.87	120.25
1	jZ	57	ASN	CA-CB-CG	-5.21	107.39	112.60
1	kq	159	GLU	CA-C-N	5.21	125.20	119.89
1	kq	159	GLU	C-N-CA	5.21	125.20	119.89
1	kr	105	ALA	CA-C-N	5.21	130.50	120.66
1	kr	105	ALA	C-N-CA	5.21	130.50	120.66
1	kA	216	THR	CA-CB-CG2	5.21	119.35	110.50
1	kC	189	LEU	CA-C-N	5.21	127.25	120.28
1	kC	189	LEU	C-N-CA	5.21	127.25	120.28
1	kF	134	ILE	N-CA-C	5.21	115.42	110.42
1	kO	133	TRP	N-CA-C	5.21	116.95	111.28
1	kZ	171	THR	CA-C-N	5.21	127.51	120.38
1	kZ	171	THR	C-N-CA	5.21	127.51	120.38
1	l5	136	LEU	CA-C-N	5.21	125.72	119.94
1	l5	136	LEU	C-N-CA	5.21	125.72	119.94
1	ld	91	ILE	CA-C-N	5.21	126.60	120.09
1	ld	91	ILE	C-N-CA	5.21	126.60	120.09
1	le	115	ILE	O-C-N	-5.21	116.82	121.87
1	lg	133	TRP	CB-CG-CD2	-5.21	119.51	126.80
1	li	132	ARG	N-CA-C	5.21	116.95	111.28
1	28	90	PRO	CA-C-N	5.21	129.96	122.72
1	28	90	PRO	C-N-CA	5.21	129.96	122.72
1	28	172	LEU	CA-C-N	5.21	127.98	120.38
1	28	172	LEU	C-N-CA	5.21	127.98	120.38
1	lD	36	VAL	CA-C-N	5.21	124.49	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lD	36	VAL	C-N-CA	5.21	124.49	120.33
1	lG	200	THR	CA-C-N	5.21	127.12	120.56
1	lG	200	THR	C-N-CA	5.21	127.12	120.56
1	2x	68	MET	CA-C-N	5.21	127.21	120.44
1	2x	68	MET	C-N-CA	5.21	127.21	120.44
1	2B	26	VAL	N-CA-CB	5.21	116.08	110.62
1	2H	103	ASP	CA-CB-CG	-5.21	107.39	112.60
1	2S	61	GLY	N-CA-C	-5.21	103.61	112.51
1	2Y	203	LYS	N-CA-C	5.21	117.70	111.71
1	33	58	THR	CA-C-O	5.21	126.07	120.55
1	37	105	ALA	CB-CA-C	-5.21	100.73	110.36
1	38	171	THR	CA-C-O	5.21	125.76	119.31
1	3a	3	VAL	CA-CB-CG2	-5.21	101.55	110.40
1	3e	189	LEU	O-C-N	-5.21	116.22	122.15
1	3h	70	LYS	N-CA-C	5.21	116.95	111.28
1	3x	117	TRP	O-C-N	-5.21	116.60	122.12
1	3G	149	SER	CA-C-N	5.21	127.59	120.46
1	3G	149	SER	C-N-CA	5.21	127.59	120.46
1	3R	172	LEU	CB-CA-C	5.21	119.05	110.88
1	47	157	PRO	CA-C-N	5.21	130.39	122.37
1	47	157	PRO	C-N-CA	5.21	130.39	122.37
1	4e	226	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	4h	152	ASP	CA-CB-CG	5.21	117.81	112.60
1	4h	202	LEU	N-CA-C	5.21	116.64	111.07
1	4A	1	PRO	N-CA-CB	5.21	108.72	103.00
1	5o	133	TRP	N-CA-C	5.21	116.95	111.28
1	5M	117	TRP	CB-CA-C	-5.21	101.17	110.70
1	6f	152	ASP	CA-C-N	5.21	127.47	120.50
1	6f	152	ASP	C-N-CA	5.21	127.47	120.50
1	6s	112	GLN	CA-C-O	5.21	126.07	120.55
1	6C	88	ALA	O-C-N	-5.21	116.58	122.10
1	6N	48	THR	CA-C-N	5.21	125.51	119.47
1	6N	48	THR	C-N-CA	5.21	125.51	119.47
1	6Z	86	VAL	CA-CB-CG1	5.21	119.25	110.40
1	7b	176	GLN	CB-CG-CD	5.21	121.45	112.60
1	7k	97	ARG	NE-CZ-NH2	-5.21	114.52	119.20
1	7r	70	LYS	N-CA-C	5.21	116.95	111.28
1	7A	120	HIS	N-CA-C	5.21	117.43	110.35
1	7P	71	GLU	CA-C-N	5.21	127.51	120.38
1	7P	71	GLU	C-N-CA	5.21	127.51	120.38
1	8f	200	THR	N-CA-C	5.21	117.03	111.36
1	8u	162	ARG	NE-CZ-NH1	5.21	126.70	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	90	87	HIS	CB-CG-ND1	5.21	130.51	122.70
1	93	160	PRO	CA-C-O	-5.21	115.52	121.56
1	9q	171	THR	N-CA-CB	5.21	118.35	110.28
1	9q	172	LEU	CA-C-O	5.21	126.07	120.55
1	9v	64	ALA	N-CA-C	5.21	116.95	111.28
1	9y	184	TRP	O-C-N	-5.21	116.71	122.07
1	9H	125	PRO	CB-CA-C	5.21	120.15	111.56
1	9L	87	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	9O	105	ALA	N-CA-CB	-5.21	102.44	110.46
1	9W	124	ILE	O-C-N	-5.21	117.40	121.46
1	Z	140	LYS	N-CA-CB	5.21	117.62	110.07
1	a9	198	CYS	O-C-N	5.21	127.64	122.12
1	aO	80	TRP	N-CA-C	5.21	116.95	111.28
1	aP	162	ARG	NE-CZ-NH1	5.21	126.70	121.50
1	aW	69	LEU	CA-C-N	5.21	127.25	120.28
1	aW	69	LEU	C-N-CA	5.21	127.25	120.28
1	16	80	TRP	CB-CG-CD2	-5.21	119.51	126.80
1	bl	193	ASN	N-CA-CB	-5.21	102.77	110.53
1	bq	113	GLU	CA-C-O	5.21	126.07	120.55
1	bv	168	PHE	N-CA-C	-5.21	105.50	111.07
1	bw	111	LEU	CA-C-N	5.21	127.25	120.28
1	bw	111	LEU	C-N-CA	5.21	127.25	120.28
1	bH	161	PHE	N-CA-C	5.21	116.64	111.07
1	c8	148	THR	CB-CA-C	5.21	118.37	109.99
1	cb	111	LEU	O-C-N	-5.21	116.13	122.22
1	cL	184	TRP	CB-CG-CD1	-5.21	119.09	126.90
1	cU	91	ILE	O-C-N	-5.21	116.94	122.61
1	dc	22	ALA	N-CA-CB	5.21	117.56	110.01
1	di	18	ARG	N-CA-C	5.21	117.03	111.36
1	dk	182	LYS	N-CA-C	5.21	117.03	111.36
1	ds	139	ASN	CA-CB-CG	-5.21	107.39	112.60
1	dz	203	LYS	N-CA-C	-5.21	105.67	112.23
1	dG	96	MET	CA-C-O	5.21	127.95	120.51
1	dJ	84	HIS	CB-CG-ND1	5.21	130.51	122.70
1	dL	130	TYR	CD1-CG-CD2	5.21	125.91	118.10
1	eh	161	PHE	CA-C-N	5.21	127.25	120.28
1	eh	161	PHE	C-N-CA	5.21	127.25	120.28
1	fB	138	LEU	CD1-CG-CD2	-5.21	99.35	110.80
1	fF	132	ARG	CG-CD-NE	-5.21	100.55	112.00
1	fF	139	ASN	N-CA-C	5.21	117.70	111.71
1	a	195	ASN	CA-C-O	-5.21	115.92	120.60
1	f	193	ASN	CA-CB-CG	-5.21	107.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	107	THR	N-CA-C	5.21	116.76	111.14
1	i	4	GLN	N-CA-CB	5.21	118.91	110.43
1	o	173	ARG	NE-CZ-NH1	5.21	126.70	121.50
1	r	84	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	4	220	GLY	CA-C-N	5.21	129.51	121.34
1	4	220	GLY	C-N-CA	5.21	129.51	121.34
1	U	116	GLY	O-C-N	-5.21	117.19	122.19
1	8	187	GLU	CA-C-O	-5.21	115.53	121.00
1	g8	65	ALA	N-CA-CB	-5.20	102.47	110.12
1	ga	221	VAL	O-C-N	-5.20	117.00	122.67
1	gv	211	LEU	CA-C-N	5.20	127.56	120.54
1	gv	211	LEU	C-N-CA	5.20	127.56	120.54
1	gw	168	PHE	N-CA-C	5.20	116.95	111.28
1	gx	89	GLY	CA-C-O	-5.20	114.08	121.52
1	gz	93	PRO	N-CA-C	5.20	120.39	113.57
1	gA	120	HIS	CG-CD2-NE2	5.20	112.40	107.20
1	1E	127	GLY	CA-C-O	5.20	126.17	120.66
1	gE	97	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	gK	219	GLN	O-C-N	-5.20	116.59	122.68
1	gU	161	PHE	CA-C-O	-5.20	115.01	120.63
1	1G	184	TRP	N-CA-C	-5.20	105.61	111.28
1	h6	82	ARG	NH1-CZ-NH2	-5.20	112.53	119.30
1	h7	110	THR	CA-CB-OG1	5.20	117.41	109.60
1	hn	189	LEU	CA-C-N	5.20	127.25	120.28
1	hn	189	LEU	C-N-CA	5.20	127.25	120.28
1	hn	202	LEU	CA-C-O	5.20	126.06	120.70
1	ho	179	GLN	O-C-N	-5.20	116.61	122.12
1	hv	173	ARG	CG-CD-NE	-5.20	100.55	112.00
1	hw	79	GLU	CA-CB-CG	5.20	124.51	114.10
1	hA	111	LEU	CA-C-O	5.20	126.06	120.55
1	hE	104	ILE	CA-C-N	5.20	128.93	120.60
1	hE	104	ILE	C-N-CA	5.20	128.93	120.60
1	hI	194	ALA	CA-C-N	5.20	128.56	120.60
1	hI	194	ALA	C-N-CA	5.20	128.56	120.60
1	hJ	77	ALA	CA-C-N	5.20	127.20	120.44
1	hJ	77	ALA	C-N-CA	5.20	127.20	120.44
1	hK	26	VAL	CA-C-N	5.20	127.12	120.56
1	hK	26	VAL	C-N-CA	5.20	127.12	120.56
1	hO	134	ILE	O-C-N	5.20	127.31	121.90
1	hW	175	GLU	CA-C-O	5.20	126.99	121.16
1	ix	162	ARG	NH1-CZ-NH2	5.20	126.06	119.30
1	iz	219	GLN	OE1-CD-NE2	-5.20	117.40	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iB	100	ARG	CA-C-N	5.20	125.72	119.94
1	iB	100	ARG	C-N-CA	5.20	125.72	119.94
1	iC	162	ARG	N-CA-C	5.20	117.62	111.33
1	iE	26	VAL	CA-C-N	5.20	127.12	120.56
1	iE	26	VAL	C-N-CA	5.20	127.12	120.56
1	iJ	62	HIS	ND1-CG-CD2	5.20	111.30	106.10
1	iM	163	ASP	N-CA-C	5.20	117.03	111.36
1	1S	2	ILE	CA-C-O	5.20	126.00	120.48
1	iT	141	ILE	CA-C-N	5.20	127.59	120.46
1	iT	141	ILE	C-N-CA	5.20	127.59	120.46
1	iU	137	GLY	O-C-N	-5.20	117.19	122.19
1	j2	10	MET	N-CA-C	-5.20	100.22	109.06
1	j7	5	ASN	CA-C-O	5.20	126.06	120.55
1	j9	20	LEU	N-CA-C	5.20	116.95	111.28
1	jg	12	HIS	CG-CD2-NE2	5.20	112.40	107.20
1	jg	75	GLU	O-C-N	-5.20	116.22	122.15
1	jn	96	MET	N-CA-C	5.20	121.88	110.80
1	jq	159	GLU	N-CA-C	5.20	116.25	109.64
1	jt	129	ILE	CA-C-N	5.20	127.25	120.28
1	jt	129	ILE	C-N-CA	5.20	127.25	120.28
1	jy	224	PRO	CB-CA-C	5.20	117.23	111.56
1	jB	14	ALA	N-CA-C	5.20	121.88	110.80
1	jC	167	ARG	N-CA-CB	-5.20	102.21	110.28
1	jH	196	PRO	CA-C-N	5.20	127.20	120.44
1	jH	196	PRO	C-N-CA	5.20	127.20	120.44
1	jR	226	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	jT	120	HIS	N-CA-CB	5.20	118.35	109.87
1	jY	28	GLU	CA-C-O	-5.20	115.36	120.82
1	k6	159	GLU	N-CA-C	5.20	117.15	109.50
1	k8	80	TRP	CA-C-N	5.20	127.51	120.38
1	k8	80	TRP	C-N-CA	5.20	127.51	120.38
1	20	119	THR	N-CA-C	-5.20	106.61	113.17
1	ka	12	HIS	CA-CB-CG	-5.20	108.60	113.80
1	kc	68	MET	N-CA-CB	-5.20	102.46	110.16
1	kd	210	THR	N-CA-CB	5.20	117.69	110.04
1	kf	144	MET	N-CA-C	5.20	116.95	111.28
1	ki	136	LEU	CB-CA-C	-5.20	102.15	110.79
1	kq	7	GLN	N-CA-CB	-5.20	102.79	110.49
1	kF	146	SER	O-C-N	-5.20	116.78	121.31
1	kG	96	MET	CA-C-O	5.20	126.91	121.19
1	kH	90	PRO	N-CD-CG	5.20	111.00	103.20
1	kH	107	THR	CA-CB-CG2	-5.20	101.66	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kH	168	PHE	CA-CB-CG	-5.20	108.60	113.80
1	kO	62	HIS	CG-ND1-CE1	-5.20	100.45	109.30
1	kO	86	VAL	N-CA-CB	5.20	116.59	110.82
1	kV	56	LEU	CB-CA-C	-5.20	102.15	110.79
1	kV	164	TYR	O-C-N	-5.20	115.87	122.27
1	l9	59	VAL	N-CA-C	-5.20	100.07	107.77
1	l9	168	PHE	CA-CB-CG	-5.20	108.60	113.80
1	ld	219	GLN	O-C-N	-5.20	116.16	122.82
1	ll	96	MET	CA-C-N	-5.20	113.32	120.71
1	ll	96	MET	C-N-CA	-5.20	113.32	120.71
1	lp	12	HIS	CB-CG-CD2	-5.20	124.44	131.20
1	lp	75	GLU	N-CA-C	5.20	116.64	111.07
1	lA	133	TRP	N-CA-C	5.20	116.95	111.28
1	lH	209	ALA	CA-C-O	-5.20	115.47	121.19
1	lJ	78	ALA	CA-C-O	5.20	126.28	120.82
1	lN	79	GLU	N-CA-CB	5.20	117.86	110.16
1	lP	18	ARG	N-CA-C	-5.20	105.78	111.82
1	2g	85	PRO	CB-CA-C	5.20	119.41	111.40
1	2g	99	PRO	CA-C-O	-5.20	115.63	122.19
1	2i	181	VAL	N-CA-C	5.20	115.42	110.42
1	2j	193	ASN	CB-CG-OD1	-5.20	110.39	120.80
1	2E	9	GLN	N-CA-CB	5.20	119.28	110.49
1	2R	8	GLY	CA-C-N	5.20	132.59	121.45
1	2R	8	GLY	C-N-CA	5.20	132.59	121.45
1	2S	200	THR	CA-C-N	5.20	127.81	120.42
1	2S	200	THR	C-N-CA	5.20	127.81	120.42
1	30	217	ALA	O-C-N	-5.20	117.12	123.10
1	32	168	PHE	CB-CG-CD1	5.20	129.55	120.70
1	38	132	ARG	O-C-N	5.20	127.64	122.12
1	38	161	PHE	N-CA-C	5.20	117.35	111.11
1	3c	114	GLN	N-CA-C	5.20	116.64	111.07
1	3j	21	ASN	CA-C-N	5.20	127.68	120.29
1	3j	21	ASN	C-N-CA	5.20	127.68	120.29
1	3m	95	GLN	O-C-N	-5.20	117.29	123.22
1	3t	11	VAL	CB-CA-C	5.20	119.33	110.95
1	3u	210	THR	CA-CB-OG1	5.20	117.40	109.60
1	3z	224	PRO	N-CA-CB	5.20	108.72	103.25
1	3H	104	ILE	N-CA-CB	5.20	117.62	110.54
1	3H	112	GLN	CA-C-O	5.20	126.07	120.55
1	3O	27	VAL	CB-CA-C	5.20	118.63	111.97
1	3P	193	ASN	CA-CB-CG	-5.20	107.40	112.60
1	3X	174	ALA	N-CA-CB	-5.20	102.52	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	41	120	HIS	CA-CB-CG	5.20	119.00	113.80
1	46	13	GLN	O-C-N	5.20	128.99	123.42
1	4a	101	GLY	O-C-N	-5.20	117.12	122.17
1	4a	111	LEU	N-CA-C	5.20	116.95	111.28
1	4c	10	MET	N-CA-C	5.20	117.00	110.24
1	4c	158	LYS	CA-C-O	5.20	125.08	119.15
1	4g	166	ASP	CA-C-N	5.20	127.25	120.28
1	4g	166	ASP	C-N-CA	5.20	127.25	120.28
1	4s	106	GLY	O-C-N	-5.20	117.24	122.65
1	4t	55	MET	N-CA-C	5.20	117.37	111.02
1	4v	123	PRO	N-CA-CB	5.20	108.18	103.34
1	4K	159	GLU	N-CA-CB	-5.20	101.89	109.90
1	5a	22	ALA	O-C-N	-5.20	116.22	122.15
1	5c	153	ILE	N-CA-CB	5.20	117.74	110.56
1	5h	72	THR	CA-CB-CG2	5.20	119.34	110.50
1	5q	38	PRO	N-CA-CB	5.20	109.27	103.44
1	5u	61	GLY	CA-C-N	5.20	129.75	122.36
1	5u	61	GLY	C-N-CA	5.20	129.75	122.36
1	5A	82	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	5F	95	GLN	CA-C-O	5.20	126.23	120.71
1	5M	78	ALA	CA-C-N	5.20	127.25	120.28
1	5M	78	ALA	C-N-CA	5.20	127.25	120.28
1	5R	174	ALA	N-CA-CB	-5.20	101.92	110.40
1	5U	154	ARG	CA-C-N	5.20	128.26	120.87
1	5U	154	ARG	C-N-CA	5.20	128.26	120.87
1	69	33	SER	CA-C-N	5.20	124.92	119.82
1	69	33	SER	C-N-CA	5.20	124.92	119.82
1	6e	186	THR	OG1-CB-CG2	-5.20	98.89	109.30
1	6g	132	ARG	O-C-N	5.20	127.43	122.07
1	6h	162	ARG	NE-CZ-NH2	5.20	123.88	119.20
1	6i	99	PRO	CB-CA-C	-5.20	105.16	111.46
1	6o	22	ALA	CA-C-O	-5.20	115.03	120.55
1	6v	97	ARG	CA-C-N	5.20	127.62	120.39
1	6v	97	ARG	C-N-CA	5.20	127.62	120.39
1	6E	178	SER	N-CA-C	5.20	117.43	110.35
1	6H	188	THR	N-CA-CB	5.20	119.28	110.49
1	6I	114	GLN	CA-C-N	5.20	127.22	120.56
1	6I	114	GLN	C-N-CA	5.20	127.22	120.56
1	6M	28	GLU	CA-C-N	5.20	131.48	121.54
1	6M	28	GLU	C-N-CA	5.20	131.48	121.54
1	6S	80	TRP	N-CA-C	5.20	116.95	111.28
1	6Y	175	GLU	O-C-N	-5.20	116.82	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7f	152	ASP	CA-CB-CG	-5.20	107.40	112.60
1	7g	39	MET	CA-C-N	5.20	127.25	120.28
1	7g	39	MET	C-N-CA	5.20	127.25	120.28
1	7h	82	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	7p	87	HIS	CB-CG-CD2	5.20	137.96	131.20
1	7u	180	GLU	N-CA-CB	5.20	117.87	110.06
1	7C	50	GLN	CB-CA-C	-5.20	102.71	110.88
1	7F	100	ARG	NH1-CZ-NH2	-5.20	112.53	119.30
1	7G	219	GLN	N-CA-C	5.20	121.88	110.80
1	7I	41	SER	CA-C-O	5.20	125.95	119.97
1	7J	162	ARG	CD-NE-CZ	-5.20	117.12	124.40
1	7K	36	VAL	CA-CB-CG1	5.20	119.25	110.40
1	7O	181	VAL	CA-C-O	5.20	126.36	120.95
1	7Y	164	TYR	CB-CG-CD2	-5.20	113.00	120.80
1	85	7	GLN	N-CA-C	5.20	117.59	109.52
1	86	101	GLY	N-CA-C	5.20	118.97	112.73
1	8b	136	LEU	O-C-N	-5.20	116.68	122.09
1	8d	91	ILE	CB-CA-C	5.20	117.93	110.33
1	8q	12	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	8K	207	PRO	CA-C-O	-5.20	112.63	118.98
1	8N	141	ILE	CA-C-O	5.20	126.36	120.95
1	8P	179	GLN	N-CA-CB	5.20	117.56	110.01
1	8Q	210	THR	N-CA-C	-5.20	102.78	110.48
1	8S	163	ASP	CB-CA-C	5.20	119.43	110.79
1	9a	189	LEU	N-CA-C	5.20	116.64	111.07
1	9i	20	LEU	N-CA-C	-5.20	105.50	111.07
1	9v	30	LYS	CA-C-N	5.20	131.48	121.54
1	9v	30	LYS	C-N-CA	5.20	131.48	121.54
1	9w	133	TRP	CB-CG-CD2	-5.20	119.52	126.80
1	9B	20	LEU	CA-C-N	5.20	127.20	120.44
1	9B	20	LEU	C-N-CA	5.20	127.20	120.44
1	9H	10	MET	N-CA-CB	5.20	117.69	110.04
1	9T	34	PRO	N-CA-CB	5.20	109.19	103.26
1	9W	47	ALA	CA-C-O	5.20	126.85	120.92
1	Z	144	MET	N-CA-CB	5.20	117.77	110.12
1	a0	9	GLN	CA-C-O	5.20	126.53	120.49
1	a8	79	GLU	N-CA-CB	-5.20	102.47	110.12
1	aB	71	GLU	CA-C-N	5.20	127.20	120.44
1	aB	71	GLU	C-N-CA	5.20	127.20	120.44
1	aF	226	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	aM	53	ASN	O-C-N	-5.20	116.13	122.22
1	aN	91	ILE	N-CA-C	-5.20	105.74	113.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	14	231	LEU	CB-CG-CD1	5.20	126.31	110.70
1	aQ	169	TYR	N-CA-C	5.20	118.89	112.54
1	15	198	CYS	N-CA-CB	5.20	117.62	110.07
1	aY	161	PHE	CA-C-N	5.20	127.56	120.54
1	aY	161	PHE	C-N-CA	5.20	127.56	120.54
1	aZ	215	MET	N-CA-C	5.20	116.95	111.28
1	b3	16	SER	CA-C-N	5.20	125.25	119.32
1	b3	16	SER	C-N-CA	5.20	125.25	119.32
1	b3	209	ALA	N-CA-CB	5.20	117.80	110.36
1	b8	53	ASN	N-CA-C	5.20	117.69	111.71
1	bd	74	ASN	O-C-N	-5.20	116.60	122.12
1	bd	202	LEU	CA-C-N	5.20	127.52	120.44
1	bd	202	LEU	C-N-CA	5.20	127.52	120.44
1	bh	92	GLU	N-CA-C	5.20	117.69	110.20
1	bn	125	PRO	CA-C-N	5.20	129.28	120.64
1	bn	125	PRO	C-N-CA	5.20	129.28	120.64
1	bo	88	ALA	O-C-N	-5.20	114.60	122.61
1	bw	72	THR	CA-C-N	5.20	127.87	120.53
1	bw	72	THR	C-N-CA	5.20	127.87	120.53
1	bx	110	THR	CA-C-N	5.20	127.51	120.38
1	bx	110	THR	C-N-CA	5.20	127.51	120.38
1	bC	42	ALA	CA-C-O	-5.20	113.99	119.97
1	bC	75	GLU	N-CA-CB	5.20	117.56	110.01
1	bO	19	THR	N-CA-C	5.20	116.95	111.28
1	c1	47	ALA	N-CA-C	5.20	117.76	109.96
1	c2	107	THR	N-CA-C	-5.20	105.67	112.23
1	c4	53	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	c9	16	SER	CA-C-O	-5.20	115.82	120.19
1	cc	204	ALA	O-C-N	-5.20	115.19	122.37
1	1d	40	PHE	CB-CA-C	5.20	119.05	110.88
1	cq	23	TRP	CA-CB-CG	5.20	123.48	113.60
1	cq	77	ALA	N-CA-C	5.20	117.35	111.11
1	cu	2	ILE	CA-C-N	5.20	129.56	122.90
1	cu	2	ILE	C-N-CA	5.20	129.56	122.90
1	cu	37	ILE	CA-C-O	5.20	122.18	118.69
1	cC	92	GLU	O-C-N	-5.20	115.94	121.30
1	cG	42	ALA	O-C-N	-5.20	116.13	122.22
1	1g	18	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	cM	226	HIS	N-CA-C	5.20	117.35	111.11
1	cQ	117	TRP	CD2-CE2-CZ2	-5.20	117.20	122.40
1	db	80	TRP	CB-CG-CD2	-5.20	119.52	126.80
1	dj	187	GLU	CB-CG-CD	5.20	121.45	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dj	192	GLN	CG-CD-OE1	5.20	131.21	120.80
1	ds	211	LEU	N-CA-CB	-5.20	102.47	110.12
1	dv	68	MET	CA-C-N	5.20	127.52	120.44
1	dv	68	MET	C-N-CA	5.20	127.52	120.44
1	dv	140	LYS	CB-CG-CD	5.20	123.27	111.30
1	dv	227	LYS	CA-C-N	5.20	130.01	122.36
1	dv	227	LYS	C-N-CA	5.20	130.01	122.36
1	dD	95	GLN	N-CA-C	5.20	117.57	110.55
1	dF	53	ASN	CB-CA-C	-5.20	102.71	110.88
1	dL	150	ILE	CB-CA-C	-5.20	105.22	112.04
1	ea	160	PRO	CB-CA-C	5.20	117.60	110.52
1	eo	222	GLY	N-CA-C	5.20	119.41	112.65
1	eq	68	MET	CA-C-N	5.20	127.20	120.44
1	eq	68	MET	C-N-CA	5.20	127.20	120.44
1	eu	170	LYS	O-C-N	-5.20	116.68	122.09
1	eu	176	GLN	CB-CA-C	5.20	119.53	110.94
1	eH	60	GLY	CA-C-N	5.20	129.11	121.67
1	eH	60	GLY	C-N-CA	5.20	129.11	121.67
1	eN	192	GLN	N-CA-C	5.20	117.86	111.82
1	f1	56	LEU	CA-C-N	5.20	127.77	120.28
1	f1	56	LEU	C-N-CA	5.20	127.77	120.28
1	f2	107	THR	N-CA-C	5.20	117.86	111.82
1	f4	114	GLN	CA-C-O	-5.20	113.65	119.79
1	f6	197	ASP	CA-C-N	5.20	132.05	122.79
1	f6	197	ASP	C-N-CA	5.20	132.05	122.79
1	f9	121	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	fb	3	VAL	CA-C-N	-5.20	113.32	121.02
1	fb	3	VAL	C-N-CA	-5.20	113.32	121.02
1	fk	63	GLN	N-CA-C	5.20	116.95	111.28
1	fm	135	ILE	CA-C-O	-5.20	115.54	120.95
1	fp	192	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	fA	73	ILE	N-CA-CB	5.20	118.39	110.58
1	fH	128	GLU	N-CA-C	5.20	116.95	111.28
1	fL	112	GLN	CB-CA-C	-5.20	102.15	110.79
1	fP	15	ILE	CB-CA-C	5.20	119.80	111.32
1	fW	96	MET	CG-SD-CE	-5.20	89.45	100.90
1	1A	67	GLN	N-CA-C	5.20	116.95	111.28
1	q	98	GLU	CA-C-N	5.20	125.12	119.76
1	q	98	GLU	C-N-CA	5.20	125.12	119.76
1	u	82	ARG	NH1-CZ-NH2	-5.20	112.53	119.30
1	y	46	GLY	N-CA-C	-5.20	108.09	115.43
1	B	82	ARG	N-CA-CB	5.20	118.28	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3	61	GLY	CA-C-O	-5.20	116.11	122.82
1	F	158	LYS	N-CA-CB	-5.20	102.85	111.49
1	Q	63	GLN	N-CA-C	5.20	118.89	112.54
1	T	5	ASN	N-CA-C	5.20	118.13	110.59
1	W	68	MET	CA-C-N	5.20	127.20	120.44
1	W	68	MET	C-N-CA	5.20	127.20	120.44
1	9	143	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	ga	139	ASN	O-C-N	-5.20	116.61	122.12
1	gj	12	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	gr	2	ILE	CA-C-N	5.20	130.37	122.98
1	gr	2	ILE	C-N-CA	5.20	130.37	122.98
1	1D	129	ILE	CA-C-N	5.20	127.68	120.29
1	1D	129	ILE	C-N-CA	5.20	127.68	120.29
1	1D	180	GLU	CA-C-N	5.20	127.31	120.60
1	1D	180	GLU	C-N-CA	5.20	127.31	120.60
1	gx	99	PRO	N-CA-C	5.20	119.38	110.95
1	gz	170	LYS	CB-CA-C	5.20	119.05	110.88
1	h2	10	MET	CB-CA-C	-5.20	102.46	111.30
1	ha	22	ALA	CA-C-O	5.20	126.06	120.55
1	hd	124	ILE	CB-CA-C	-5.20	104.80	110.78
1	hp	47	ALA	N-CA-C	5.20	117.85	110.10
1	ht	106	GLY	CA-C-O	5.20	124.74	118.97
1	hw	81	ASP	CA-CB-CG	-5.20	107.40	112.60
1	hG	48	THR	CA-C-N	5.20	126.34	119.84
1	hG	48	THR	C-N-CA	5.20	126.34	119.84
1	1L	8	GLY	CA-C-N	5.20	131.12	122.54
1	1L	8	GLY	C-N-CA	5.20	131.12	122.54
1	hQ	31	ALA	CB-CA-C	-5.20	99.56	110.17
1	hR	167	ARG	CA-C-N	5.20	127.25	120.28
1	hR	167	ARG	C-N-CA	5.20	127.25	120.28
1	i1	217	ALA	N-CA-C	5.20	117.40	110.53
1	i3	93	PRO	N-CA-CB	5.20	107.83	103.25
1	ib	95	GLN	O-C-N	-5.20	117.85	123.42
1	il	200	THR	CA-CB-OG1	5.20	117.40	109.60
1	iw	216	THR	N-CA-C	5.20	116.64	111.07
1	iG	189	LEU	CA-C-O	5.20	126.06	120.55
1	iN	72	THR	CA-C-N	5.20	127.22	120.56
1	iN	72	THR	C-N-CA	5.20	127.22	120.56
1	iP	21	ASN	O-C-N	-5.20	116.47	122.09
1	j5	4	GLN	N-CA-C	5.20	117.24	109.59
1	je	161	PHE	CB-CA-C	5.20	119.69	110.85
1	jA	191	VAL	CB-CA-C	-5.20	105.66	111.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jP	57	ASN	CB-CG-ND2	-5.20	108.60	116.40
1	jZ	62	HIS	O-C-N	-5.20	116.46	122.86
1	22	112	GLN	N-CA-C	5.20	116.95	111.28
1	kz	37	ILE	CA-C-O	-5.20	112.98	119.95
1	kM	214	MET	O-C-N	-5.20	115.46	122.43
1	kP	188	THR	CA-C-N	5.20	127.20	120.44
1	kP	188	THR	C-N-CA	5.20	127.20	120.44
1	lk	81	ASP	CA-CB-CG	5.20	117.80	112.60
1	lk	139	ASN	N-CA-C	-5.20	105.69	111.36
1	lA	167	ARG	N-CA-C	5.20	117.35	111.11
1	2e	185	MET	N-CA-C	5.20	116.64	111.07
1	2x	108	THR	N-CA-C	5.20	118.65	112.72
1	2C	135	ILE	O-C-N	-5.20	116.82	121.87
1	2Z	89	GLY	CA-C-N	5.20	125.20	119.89
1	2Z	89	GLY	C-N-CA	5.20	125.20	119.89
1	3o	164	TYR	CA-C-N	5.20	127.81	120.42
1	3o	164	TYR	C-N-CA	5.20	127.81	120.42
1	3u	107	THR	N-CA-C	5.20	118.89	112.54
1	3F	184	TRP	CA-CB-CG	5.20	123.48	113.60
1	3W	175	GLU	CB-CG-CD	-5.20	103.76	112.60
1	5h	139	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	5m	30	LYS	CA-C-N	5.20	127.56	120.54
1	5m	30	LYS	C-N-CA	5.20	127.56	120.54
1	5v	154	ARG	CG-CD-NE	-5.20	100.56	112.00
1	5H	51	ASP	N-CA-CB	5.20	117.55	110.01
1	5L	77	ALA	CA-C-N	5.20	127.25	120.28
1	5L	77	ALA	C-N-CA	5.20	127.25	120.28
1	6l	133	TRP	CB-CG-CD2	-5.20	119.52	126.80
1	6N	117	TRP	N-CA-C	5.20	117.03	111.36
1	6S	106	GLY	CA-C-N	5.20	127.68	120.29
1	6S	106	GLY	C-N-CA	5.20	127.68	120.29
1	6Y	64	ALA	N-CA-C	5.20	117.62	111.33
1	76	142	VAL	CA-C-N	5.20	127.25	120.28
1	76	142	VAL	C-N-CA	5.20	127.25	120.28
1	7c	62	HIS	CA-C-N	5.20	127.68	120.29
1	7c	62	HIS	C-N-CA	5.20	127.68	120.29
1	7u	179	GLN	CA-C-N	5.20	127.51	120.38
1	7u	179	GLN	C-N-CA	5.20	127.51	120.38
1	7L	131	LYS	N-CA-C	5.20	117.62	111.33
1	7Z	87	HIS	CA-CB-CG	-5.20	108.60	113.80
1	86	91	ILE	CA-C-O	5.20	126.80	121.23
1	8j	145	TYR	CA-C-N	5.20	127.62	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8j	145	TYR	C-N-CA	5.20	127.62	120.39
1	8X	171	THR	CA-C-N	5.20	128.22	120.31
1	8X	171	THR	C-N-CA	5.20	128.22	120.31
1	9h	75	GLU	N-CA-CB	5.20	117.55	110.01
1	9h	167	ARG	CA-C-N	5.20	128.02	120.79
1	9h	167	ARG	C-N-CA	5.20	128.02	120.79
1	ac	28	GLU	CA-C-O	-5.20	115.36	120.82
1	ai	199	LYS	CA-C-O	5.20	126.25	120.63
1	11	19	THR	CA-C-O	5.20	126.26	120.90
1	b3	190	LEU	O-C-N	5.20	128.31	122.22
1	b8	212	GLU	CA-C-O	5.20	126.06	120.55
1	bw	149	SER	CA-C-N	5.20	128.83	120.30
1	bw	149	SER	C-N-CA	5.20	128.83	120.30
1	bz	171	THR	O-C-N	-5.20	116.22	122.15
1	bM	73	ILE	CA-C-N	5.20	127.20	120.44
1	bM	73	ILE	C-N-CA	5.20	127.20	120.44
1	c2	34	PRO	O-C-N	-5.20	116.26	122.24
1	c8	140	LYS	N-CA-C	5.20	117.37	111.02
1	cr	143	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	cA	208	ALA	CA-C-N	5.20	130.03	121.39
1	cA	208	ALA	C-N-CA	5.20	130.03	121.39
1	cK	173	ARG	N-CA-C	5.20	116.95	111.28
1	cL	227	LYS	CB-CG-CD	5.20	123.26	111.30
1	cY	171	THR	O-C-N	-5.20	116.71	122.07
1	1j	135	ILE	CA-C-N	5.20	127.20	120.44
1	1j	135	ILE	C-N-CA	5.20	127.20	120.44
1	df	153	ILE	O-C-N	-5.20	117.26	122.62
1	dr	100	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	dN	167	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	dO	130	TYR	N-CA-C	5.20	116.64	111.07
1	dX	38	PRO	CA-C-N	5.20	127.20	120.44
1	dX	38	PRO	C-N-CA	5.20	127.20	120.44
1	e0	154	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	em	95	GLN	O-C-N	-5.20	116.60	123.21
1	eu	193	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	eD	229	ARG	CG-CD-NE	-5.20	100.56	112.00
1	eR	201	ILE	CB-CA-C	5.20	118.31	111.81
1	eS	181	VAL	N-CA-C	5.20	115.41	110.42
1	fQ	24	VAL	N-CA-C	5.20	115.41	110.42
1	g0	165	VAL	CA-C-N	5.20	127.25	120.28
1	g0	165	VAL	C-N-CA	5.20	127.25	120.28
1	1B	223	GLY	CA-C-N	5.20	126.22	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1B	223	GLY	C-N-CA	5.20	126.22	120.45
1	d	181	VAL	CB-CA-C	-5.20	105.31	111.97
1	m	208	ALA	N-CA-CB	5.20	119.28	110.49
1	q	108	THR	CA-C-O	5.20	125.63	120.32
1	v	188	THR	N-CA-CB	5.20	117.52	109.98
1	v	224	PRO	CB-CA-C	5.20	120.14	111.56
1	B	37	ILE	O-C-N	-5.20	115.17	121.10
1	N	5	ASN	CA-CB-CG	-5.20	107.40	112.60
1	V	184	TRP	O-C-N	-5.20	116.47	122.09
1	gf	55	MET	O-C-N	-5.20	116.52	122.08
1	gg	126	VAL	CB-CA-C	5.20	118.85	112.04
1	gh	107	THR	N-CA-C	5.20	116.63	111.07
1	gC	40	PHE	CB-CG-CD1	-5.20	111.86	120.70
1	gH	67	GLN	CB-CG-CD	5.20	121.44	112.60
1	gM	6	LEU	N-CA-CB	5.20	118.63	110.46
1	gO	188	THR	O-C-N	-5.20	115.67	122.59
1	h4	132	ARG	CB-CG-CD	5.20	123.26	111.30
1	ha	70	LYS	O-C-N	-5.20	116.14	122.22
1	hc	124	ILE	CB-CA-C	5.20	116.28	110.71
1	hd	48	THR	CA-C-O	-5.20	115.29	120.96
1	1I	12	HIS	CA-C-N	5.20	131.16	122.73
1	1I	12	HIS	C-N-CA	5.20	131.16	122.73
1	hk	81	ASP	N-CA-CB	-5.20	102.48	110.12
1	hl	61	GLY	CA-C-N	5.20	130.20	122.82
1	hl	61	GLY	C-N-CA	5.20	130.20	122.82
1	1J	143	ARG	N-CA-CB	-5.20	102.47	110.16
1	hx	91	ILE	O-C-N	-5.20	117.00	122.25
1	hD	18	ARG	CA-C-N	5.20	127.20	120.44
1	hD	18	ARG	C-N-CA	5.20	127.20	120.44
1	hE	87	HIS	CA-C-N	5.20	128.09	120.71
1	hE	87	HIS	C-N-CA	5.20	128.09	120.71
1	hH	173	ARG	CD-NE-CZ	-5.20	117.12	124.40
1	1L	18	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	hO	178	SER	CA-CB-OG	5.20	121.50	111.10
1	hQ	12	HIS	CB-CG-CD2	-5.20	124.44	131.20
1	1M	117	TRP	N-CA-CB	5.20	117.86	110.16
1	i4	80	TRP	CA-C-N	5.20	128.21	120.31
1	i4	80	TRP	C-N-CA	5.20	128.21	120.31
1	i5	53	ASN	CA-C-O	-5.20	115.36	120.82
1	i8	72	THR	CB-CA-C	-5.20	102.16	110.79
1	ie	41	SER	CB-CA-C	-5.20	101.01	110.63
1	if	120	HIS	ND1-CE1-NE2	5.20	113.60	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	in	79	GLU	CA-C-O	5.20	126.06	120.55
1	1P	167	ARG	N-CA-C	5.20	116.95	111.28
1	ir	195	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	iu	31	ALA	N-CA-C	5.20	115.70	108.00
1	ix	18	ARG	O-C-N	-5.20	116.61	122.12
1	iy	4	GLN	N-CA-CB	5.20	120.74	111.69
1	iH	101	GLY	N-CA-C	5.20	118.97	112.73
1	iP	52	LEU	N-CA-C	5.20	116.63	111.07
1	iV	167	ARG	CA-C-N	5.20	127.51	120.44
1	iV	167	ARG	C-N-CA	5.20	127.51	120.44
1	iZ	198	CYS	N-CA-C	-5.20	105.52	111.14
1	j3	53	ASN	O-C-N	-5.20	116.61	122.12
1	jv	12	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	jv	72	THR	O-C-N	-5.20	116.61	122.12
1	jw	120	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	jJ	165	VAL	CB-CA-C	5.20	119.40	112.22
1	jL	200	THR	CA-CB-CG2	5.20	119.34	110.50
1	jN	125	PRO	N-CA-CB	-5.20	97.79	103.25
1	jR	167	ARG	CA-C-O	5.20	126.46	120.90
1	jV	179	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	jW	146	SER	O-C-N	-5.20	114.00	121.54
1	jZ	12	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	1Z	72	THR	O-C-N	5.20	127.63	122.12
1	k6	74	ASN	CA-C-N	5.20	127.67	120.29
1	k6	74	ASN	C-N-CA	5.20	127.67	120.29
1	k9	9	GLN	CG-CD-NE2	-5.20	108.60	116.40
1	ka	26	VAL	N-CA-C	5.20	115.41	110.42
1	kk	72	THR	CA-CB-CG2	-5.20	101.66	110.50
1	kD	12	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	kF	2	ILE	N-CA-CB	5.20	116.39	110.72
1	kR	59	VAL	N-CA-CB	5.20	117.23	110.99
1	kS	2	ILE	N-CA-CB	5.20	116.39	110.72
1	kW	83	LEU	N-CA-CB	5.20	117.55	110.01
1	lc	200	THR	N-CA-CB	5.20	117.86	110.06
1	ln	214	MET	CA-C-N	5.20	131.73	122.06
1	ln	214	MET	C-N-CA	5.20	131.73	122.06
1	lp	108	THR	OG1-CB-CG2	-5.20	98.90	109.30
1	ls	74	ASN	CA-C-N	5.20	127.67	120.29
1	ls	74	ASN	C-N-CA	5.20	127.67	120.29
1	2a	2	ILE	N-CA-C	-5.20	100.99	108.53
1	lR	119	THR	N-CA-C	-5.20	106.62	113.17
1	lR	214	MET	CA-C-N	5.20	127.50	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lR	214	MET	C-N-CA	5.20	127.50	120.38
1	2e	115	ILE	CA-C-O	-5.20	115.54	120.95
1	2e	129	ILE	CB-CA-C	-5.20	105.31	111.97
1	2p	183	ASN	CA-C-N	5.20	127.25	120.28
1	2p	183	ASN	C-N-CA	5.20	127.25	120.28
1	2p	199	LYS	CA-C-N	5.20	127.20	120.44
1	2p	199	LYS	C-N-CA	5.20	127.20	120.44
1	2r	113	GLU	CA-C-N	5.20	127.20	120.44
1	2r	113	GLU	C-N-CA	5.20	127.20	120.44
1	2u	191	VAL	O-C-N	-5.20	116.49	121.90
1	2C	134	ILE	CA-C-N	5.20	127.58	120.46
1	2C	134	ILE	C-N-CA	5.20	127.58	120.46
1	2F	82	ARG	CB-CA-C	5.20	119.69	110.85
1	2H	200	THR	CA-C-N	5.20	127.22	120.56
1	2H	200	THR	C-N-CA	5.20	127.22	120.56
1	2J	158	LYS	CA-C-O	5.20	124.53	118.97
1	2W	20	LEU	CA-C-N	5.20	127.25	120.28
1	2W	20	LEU	C-N-CA	5.20	127.25	120.28
1	35	173	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	37	43	LEU	N-CA-C	5.20	118.88	112.54
1	3p	178	SER	CB-CA-C	-5.20	102.67	110.16
1	3r	195	ASN	O-C-N	-5.20	115.34	121.32
1	3t	34	PRO	CA-C-N	5.20	127.97	120.38
1	3t	34	PRO	C-N-CA	5.20	127.97	120.38
1	3y	18	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	3y	75	GLU	CA-C-O	-5.20	115.36	120.82
1	3C	67	GLN	CB-CA-C	5.20	119.05	110.88
1	3F	224	PRO	N-CA-C	-5.20	101.76	112.47
1	3G	81	ASP	CA-CB-CG	-5.20	107.40	112.60
1	3I	65	ALA	N-CA-C	5.20	117.03	111.36
1	3K	164	TYR	CA-C-N	5.20	127.81	120.42
1	3K	164	TYR	C-N-CA	5.20	127.81	120.42
1	3N	3	VAL	N-CA-C	-5.20	101.11	108.65
1	42	105	ALA	CB-CA-C	5.20	119.98	110.36
1	45	168	PHE	O-C-N	-5.20	116.61	122.12
1	49	211	LEU	N-CA-CB	-5.20	102.48	110.12
1	4d	147	PRO	CA-N-CD	-5.20	104.72	112.00
1	4f	190	LEU	CA-C-N	5.20	127.31	120.60
1	4f	190	LEU	C-N-CA	5.20	127.31	120.60
1	4k	195	ASN	CA-C-O	-5.20	114.81	120.69
1	4t	9	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	4H	171	THR	N-CA-C	-5.20	106.09	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4N	82	ARG	NE-CZ-NH2	5.20	123.88	119.20
1	4N	166	ASP	CB-CA-C	-5.20	102.65	110.92
1	50	85	PRO	N-CA-CB	-5.20	98.68	103.31
1	51	180	GLU	N-CA-C	5.20	116.95	111.28
1	5n	70	LYS	CA-C-O	5.20	126.06	120.55
1	5o	74	ASN	CA-CB-CG	5.20	117.80	112.60
1	5q	130	TYR	CA-C-O	5.20	125.93	120.42
1	5s	228	ALA	O-C-N	-5.20	115.84	122.34
1	5x	175	GLU	CA-C-N	-5.20	114.43	122.49
1	5x	175	GLU	C-N-CA	-5.20	114.43	122.49
1	5A	121	ASN	CB-CA-C	5.20	117.41	110.13
1	5P	209	ALA	CA-C-N	5.20	128.25	120.87
1	5P	209	ALA	C-N-CA	5.20	128.25	120.87
1	5V	52	LEU	N-CA-C	5.20	116.63	111.07
1	5X	70	LYS	CA-C-O	5.20	126.06	120.55
1	5Z	18	ARG	O-C-N	-5.20	116.61	122.12
1	66	83	LEU	N-CA-C	-5.20	105.52	111.14
1	6r	41	SER	CA-C-N	5.20	127.56	120.54
1	6r	41	SER	C-N-CA	5.20	127.56	120.54
1	6J	142	VAL	CA-C-N	5.20	127.20	120.44
1	6J	142	VAL	C-N-CA	5.20	127.20	120.44
1	6S	76	GLU	O-C-N	-5.20	116.61	122.12
1	6T	114	GLN	N-CA-C	5.20	116.95	111.28
1	6Z	140	LYS	O-C-N	-5.20	116.22	122.15
1	79	82	ARG	O-C-N	5.20	127.71	122.09
1	7a	78	ALA	N-CA-C	5.20	117.35	111.11
1	7c	74	ASN	N-CA-C	-5.20	105.61	111.28
1	7o	184	TRP	O-C-N	-5.20	116.61	122.12
1	7q	62	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	7u	122	PRO	N-CA-CB	5.20	108.32	102.60
1	7C	102	SER	CA-C-N	5.20	127.67	120.29
1	7C	102	SER	C-N-CA	5.20	127.67	120.29
1	7G	100	ARG	CA-C-N	5.20	125.87	119.99
1	7G	100	ARG	C-N-CA	5.20	125.87	119.99
1	7N	7	GLN	CA-C-O	-5.20	115.87	121.38
1	7P	114	GLN	N-CA-C	5.20	117.35	111.11
1	7Q	121	ASN	CB-CG-ND2	-5.20	108.60	116.40
1	7V	196	PRO	CA-C-N	5.20	127.20	120.44
1	7V	196	PRO	C-N-CA	5.20	127.20	120.44
1	7Z	41	SER	N-CA-C	5.20	117.35	111.11
1	8p	84	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	8t	3	VAL	CA-C-O	5.20	125.80	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8t	48	THR	CA-C-N	5.20	125.00	119.28
1	8t	48	THR	C-N-CA	5.20	125.00	119.28
1	8z	150	ILE	CA-C-N	5.20	127.77	120.28
1	8z	150	ILE	C-N-CA	5.20	127.77	120.28
1	8B	88	ALA	CA-C-N	5.20	130.03	121.87
1	8B	88	ALA	C-N-CA	5.20	130.03	121.87
1	8I	167	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	8K	142	VAL	CA-CB-CG1	5.20	119.24	110.40
1	8R	73	ILE	CA-C-N	5.20	127.20	120.44
1	8R	73	ILE	C-N-CA	5.20	127.20	120.44
1	8S	119	THR	CA-CB-OG1	5.20	117.40	109.60
1	8W	74	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	97	64	ALA	O-C-N	-5.20	115.36	122.33
1	9b	149	SER	CA-C-O	5.20	127.04	121.16
1	9k	65	ALA	N-CA-C	5.20	116.95	111.28
1	9C	52	LEU	CA-C-N	5.20	127.25	120.28
1	9C	52	LEU	C-N-CA	5.20	127.25	120.28
1	9C	59	VAL	N-CA-C	5.20	115.95	108.93
1	9E	150	ILE	CA-C-O	5.20	126.30	119.85
1	9T	70	LYS	CB-CG-CD	5.20	123.26	111.30
1	9V	3	VAL	O-C-N	-5.20	117.54	123.10
1	9V	11	VAL	O-C-N	-5.20	117.64	123.26
1	9W	111	LEU	O-C-N	-5.20	116.61	122.12
1	a3	25	LYS	CA-CB-CG	5.20	124.50	114.10
1	ao	93	PRO	N-CA-CB	-5.20	97.79	103.25
1	ao	174	ALA	O-C-N	-5.20	115.87	122.27
1	aU	131	LYS	O-C-N	-5.20	116.61	122.12
1	b0	163	ASP	O-C-N	5.20	127.71	122.09
1	bl	210	THR	CB-CA-C	5.20	118.74	109.38
1	bA	26	VAL	O-C-N	-5.20	116.47	121.83
1	bB	203	LYS	N-CA-C	-5.20	106.09	112.90
1	bE	98	GLU	CB-CG-CD	5.20	121.44	112.60
1	1a	90	PRO	N-CA-CB	5.20	108.71	103.25
1	bP	146	SER	N-CA-CB	5.20	117.91	109.90
1	bQ	7	GLN	CB-CA-C	5.20	119.52	110.94
1	bW	121	ASN	CA-C-O	-5.20	114.13	119.49
1	cb	211	LEU	CA-C-O	-5.20	115.01	120.63
1	cA	114	GLN	CA-CB-CG	5.20	124.50	114.10
1	cB	142	VAL	CB-CA-C	-5.20	105.12	112.14
1	cQ	18	ARG	CA-C-N	5.20	127.25	120.28
1	cQ	18	ARG	C-N-CA	5.20	127.25	120.28
1	1h	23	TRP	CE3-CZ3-CH2	5.20	127.86	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1h	219	GLN	CA-C-O	5.20	125.51	119.32
1	cY	13	GLN	CB-CG-CD	5.20	121.44	112.60
1	cY	48	THR	CA-CB-OG1	5.20	117.40	109.60
1	d0	141	ILE	CA-C-N	5.20	127.22	120.56
1	d0	141	ILE	C-N-CA	5.20	127.22	120.56
1	1i	21	ASN	OD1-CG-ND2	5.20	127.80	122.60
1	dd	59	VAL	N-CA-CB	5.20	118.01	111.46
1	df	159	GLU	CA-C-N	5.20	125.20	119.90
1	df	159	GLU	C-N-CA	5.20	125.20	119.90
1	dj	139	ASN	CB-CA-C	-5.20	102.49	110.81
1	dv	143	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	dx	144	MET	N-CA-C	-5.20	105.69	111.36
1	dM	164	TYR	O-C-N	-5.20	116.61	122.12
1	1n	226	HIS	CA-C-N	5.20	129.39	120.71
1	1n	226	HIS	C-N-CA	5.20	129.39	120.71
1	e3	61	GLY	O-C-N	-5.20	117.94	122.88
1	eb	150	ILE	N-CA-C	5.20	120.16	109.34
1	eh	212	GLU	N-CA-CB	5.20	117.76	110.12
1	eP	180	GLU	CB-CG-CD	5.20	121.44	112.60
1	eS	14	ALA	CA-C-O	5.20	127.23	121.56
1	1u	74	ASN	CA-C-N	5.20	127.56	120.54
1	1u	74	ASN	C-N-CA	5.20	127.56	120.54
1	f8	186	THR	N-CA-CB	5.20	118.31	110.30
1	fi	90	PRO	CA-C-N	5.20	128.93	121.96
1	fi	90	PRO	C-N-CA	5.20	128.93	121.96
1	fi	155	GLN	CA-C-O	5.20	126.85	120.92
1	1w	152	ASP	N-CA-C	5.20	119.58	113.23
1	fo	97	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	fx	206	GLY	O-C-N	-5.20	116.57	121.77
1	fy	40	PHE	CB-CA-C	5.20	119.05	110.88
1	fT	212	GLU	N-CA-C	5.20	117.62	111.33
1	g1	154	ARG	CA-C-N	5.20	128.73	121.24
1	g1	154	ARG	C-N-CA	5.20	128.73	121.24
1	g6	229	ARG	NE-CZ-NH1	-5.20	116.30	121.50
1	d	166	ASP	CA-C-N	5.20	127.20	120.44
1	d	166	ASP	C-N-CA	5.20	127.20	120.44
1	e	26	VAL	N-CA-C	5.20	115.97	110.72
1	f	95	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	h	141	ILE	O-C-N	-5.20	116.81	121.91
1	j	74	ASN	CA-C-O	5.20	126.06	120.55
1	1	106	GLY	CA-C-N	5.20	127.25	120.28
1	1	106	GLY	C-N-CA	5.20	127.25	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	m	116	GLY	CA-C-N	5.20	127.51	120.44
1	m	116	GLY	C-N-CA	5.20	127.51	120.44
1	o	181	VAL	CA-C-N	5.20	128.22	120.31
1	o	181	VAL	C-N-CA	5.20	128.22	120.31
1	o	216	THR	O-C-N	-5.20	116.41	122.03
1	w	80	TRP	CA-C-O	-5.20	115.54	121.00
1	z	62	HIS	N-CA-CB	5.20	117.65	109.69
1	z	168	PHE	CA-CB-CG	5.20	119.00	113.80
1	H	221	VAL	O-C-N	-5.20	117.00	122.20
1	O	98	GLU	CB-CA-C	-5.20	100.93	109.46
1	P	217	ALA	O-C-N	-5.20	115.52	122.49
1	gc	201	ILE	CA-C-O	-5.20	115.34	120.85
1	gj	161	PHE	O-C-N	-5.20	116.72	122.07
1	gp	50	GLN	N-CA-C	5.20	116.63	111.07
1	gE	107	THR	CA-CB-OG1	5.20	117.40	109.60
1	h4	139	ASN	CA-C-N	5.20	127.20	120.44
1	h4	139	ASN	C-N-CA	5.20	127.20	120.44
1	h5	95	GLN	CA-C-N	5.20	128.60	120.75
1	h5	95	GLN	C-N-CA	5.20	128.60	120.75
1	h9	69	LEU	CB-CA-C	5.20	119.04	110.88
1	hg	229	ARG	NE-CZ-NH2	5.20	123.88	119.20
1	hn	26	VAL	O-C-N	-5.20	116.62	121.87
1	hn	89	GLY	CA-C-N	5.20	126.34	119.84
1	hn	89	GLY	C-N-CA	5.20	126.34	119.84
1	hr	11	VAL	O-C-N	-5.20	118.45	122.97
1	hu	92	GLU	O-C-N	-5.20	117.33	121.80
1	hG	10	MET	CG-SD-CE	-5.20	89.46	100.90
1	hJ	224	PRO	N-CA-CB	-5.20	98.50	103.39
1	1L	55	MET	CB-CA-C	-5.20	102.01	110.85
1	hL	192	GLN	CA-C-N	5.20	131.50	122.56
1	hL	192	GLN	C-N-CA	5.20	131.50	122.56
1	hQ	149	SER	CA-C-N	5.20	127.86	120.53
1	hQ	149	SER	C-N-CA	5.20	127.86	120.53
1	hV	105	ALA	CA-C-N	5.20	130.37	121.07
1	hV	105	ALA	C-N-CA	5.20	130.37	121.07
1	hW	128	GLU	O-C-N	5.20	128.07	122.15
1	i0	26	VAL	CB-CA-C	-5.20	105.12	112.14
1	i3	200	THR	N-CA-CB	5.20	117.69	109.94
1	i4	49	PRO	O-C-N	-5.20	115.62	122.64
1	i6	138	LEU	CD1-CG-CD2	-5.20	99.36	110.80
1	i6	229	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	ia	176	GLN	O-C-N	-5.20	116.10	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ic	199	LYS	CA-C-N	5.20	127.25	120.28
1	ic	199	LYS	C-N-CA	5.20	127.25	120.28
1	id	12	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	if	27	VAL	CA-C-N	5.20	127.67	120.29
1	if	27	VAL	C-N-CA	5.20	127.67	120.29
1	ig	226	HIS	O-C-N	-5.20	116.96	123.04
1	ip	154	ARG	CD-NE-CZ	-5.20	117.12	124.40
1	iy	212	GLU	CB-CG-CD	5.20	121.44	112.60
1	iC	102	SER	N-CA-C	5.20	117.69	111.71
1	1R	173	ARG	N-CA-C	5.20	117.62	111.33
1	iL	76	GLU	CA-C-O	5.20	125.76	119.31
1	iQ	173	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	iX	58	THR	CA-C-N	5.20	127.54	120.63
1	iX	58	THR	C-N-CA	5.20	127.54	120.63
1	iX	149	SER	CA-C-N	5.20	127.58	120.46
1	iX	149	SER	C-N-CA	5.20	127.58	120.46
1	iZ	10	MET	CA-C-O	5.20	127.94	120.51
1	j1	192	GLN	CA-C-O	-5.20	115.02	120.63
1	j5	120	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	j7	17	PRO	CA-C-O	-5.20	111.70	119.34
1	j7	85	PRO	CA-C-N	-5.20	115.66	122.37
1	j7	85	PRO	C-N-CA	-5.20	115.66	122.37
1	jd	128	GLU	N-CA-C	5.20	116.63	111.07
1	ji	143	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	jk	121	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	jq	175	GLU	O-C-N	-5.20	116.42	122.81
1	ju	186	THR	CA-CB-CG2	5.20	119.34	110.50
1	jx	226	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	jB	120	HIS	CA-C-O	-5.20	116.04	121.55
1	jB	120	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	jD	45	GLU	N-CA-CB	-5.20	101.70	110.49
1	jE	79	GLU	CA-C-O	-5.20	115.04	120.55
1	jL	130	TYR	N-CA-CB	-5.20	102.47	110.16
1	jN	94	GLY	CA-C-O	5.20	124.52	119.27
1	jT	126	VAL	CA-C-N	5.20	125.75	119.98
1	jT	126	VAL	C-N-CA	5.20	125.75	119.98
1	jV	119	THR	O-C-N	-5.20	115.61	122.42
1	jZ	82	ARG	O-C-N	-5.20	116.61	122.12
1	1Z	213	GLU	CA-C-O	5.20	125.93	120.42
1	k0	95	GLN	O-C-N	-5.20	116.61	123.16
1	ki	214	MET	N-CA-CB	5.20	118.87	110.40
1	kq	193	ASN	CA-C-O	5.20	125.51	119.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	22	114	GLN	CA-C-N	5.20	127.58	120.46
1	22	114	GLN	C-N-CA	5.20	127.58	120.46
1	ky	216	THR	CA-C-O	5.20	125.76	119.31
1	23	135	ILE	CA-C-O	-5.20	115.34	120.85
1	kM	183	ASN	N-CA-C	5.20	116.94	111.28
1	kN	80	TRP	N-CA-C	5.20	117.62	111.33
1	kW	216	THR	N-CA-C	5.20	119.47	113.18
1	l1	182	LYS	O-C-N	-5.20	116.61	122.12
1	l7	95	GLN	CB-CG-CD	-5.20	103.76	112.60
1	lk	44	SER	O-C-N	-5.20	116.10	122.34
1	lF	131	LYS	CB-CA-C	5.20	119.13	110.81
1	lF	195	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	lN	12	HIS	CB-CG-CD2	-5.20	124.44	131.20
1	lP	12	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	2l	222	GLY	CA-C-N	5.20	130.03	121.87
1	2l	222	GLY	C-N-CA	5.20	130.03	121.87
1	2r	201	ILE	O-C-N	-5.20	116.82	121.91
1	2u	197	ASP	N-CA-C	-5.20	105.06	111.40
1	2H	165	VAL	N-CA-CB	-5.20	101.36	110.77
1	2N	167	ARG	O-C-N	-5.20	115.36	122.33
1	2Q	100	ARG	CA-C-N	5.20	125.75	119.98
1	2Q	100	ARG	C-N-CA	5.20	125.75	119.98
1	2W	183	ASN	CA-CB-CG	5.20	117.80	112.60
1	32	105	ALA	CA-C-N	5.20	130.37	121.07
1	32	105	ALA	C-N-CA	5.20	130.37	121.07
1	39	79	GLU	CA-C-N	5.20	131.47	121.54
1	39	79	GLU	C-N-CA	5.20	131.47	121.54
1	39	193	ASN	CA-CB-CG	-5.20	107.40	112.60
1	3a	191	VAL	O-C-N	-5.20	116.83	121.87
1	3g	100	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	3k	81	ASP	O-C-N	-5.20	115.29	122.46
1	3m	132	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	3n	126	VAL	CA-C-O	5.20	126.36	120.85
1	3u	187	GLU	N-CA-C	5.20	116.95	111.28
1	3y	121	ASN	O-C-N	-5.20	116.76	121.39
1	3B	112	GLN	N-CA-C	5.20	116.95	111.28
1	3D	130	TYR	CA-C-N	5.20	127.25	120.28
1	3D	130	TYR	C-N-CA	5.20	127.25	120.28
1	3H	165	VAL	CA-CB-CG1	5.20	119.24	110.40
1	3L	134	ILE	CA-C-O	5.20	126.68	121.17
1	3Y	190	LEU	CA-C-N	5.20	127.80	120.42
1	3Y	190	LEU	C-N-CA	5.20	127.80	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	43	215	MET	CA-CB-CG	5.20	124.50	114.10
1	4d	70	LYS	CA-C-N	5.20	127.25	120.28
1	4d	70	LYS	C-N-CA	5.20	127.25	120.28
1	4d	112	GLN	N-CA-C	5.20	117.69	111.71
1	4E	90	PRO	O-C-N	5.20	129.19	122.85
1	53	62	HIS	CG-CD2-NE2	-5.20	102.00	107.20
1	58	195	ASN	CA-CB-CG	-5.20	107.40	112.60
1	5B	12	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	5B	133	TRP	CA-C-N	5.20	127.58	120.46
1	5B	133	TRP	C-N-CA	5.20	127.58	120.46
1	5I	59	VAL	N-CA-CB	5.20	117.22	110.57
1	5L	139	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	6g	151	LEU	N-CA-C	-5.20	106.71	113.16
1	6o	4	GLN	OE1-CD-NE2	-5.20	117.40	122.60
1	6K	171	THR	CA-C-O	5.20	125.92	119.79
1	77	54	THR	O-C-N	-5.20	116.72	122.07
1	7t	106	GLY	CA-C-N	5.20	130.24	121.14
1	7t	106	GLY	C-N-CA	5.20	130.24	121.14
1	7x	229	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	7D	11	VAL	O-C-N	-5.20	117.28	123.05
1	7I	48	THR	CA-CB-OG1	5.20	117.40	109.60
1	7R	120	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	8j	111	LEU	O-C-N	-5.20	116.61	122.12
1	8k	114	GLN	CA-C-O	-5.20	114.91	120.42
1	8q	28	GLU	N-CA-C	5.20	116.64	110.97
1	8t	218	CYS	N-CA-CB	5.20	119.27	110.49
1	8v	89	GLY	CA-C-N	5.20	125.49	119.93
1	8v	89	GLY	C-N-CA	5.20	125.49	119.93
1	8z	115	ILE	N-CA-C	-5.20	105.43	110.42
1	8F	16	SER	CA-C-O	-5.20	115.47	119.32
1	8N	27	VAL	CA-C-N	5.20	128.02	120.79
1	8N	27	VAL	C-N-CA	5.20	128.02	120.79
1	8S	74	ASN	CA-CB-CG	5.20	117.80	112.60
1	8Z	107	THR	CA-C-O	-5.20	114.74	120.30
1	98	201	ILE	O-C-N	-5.20	116.83	121.87
1	9d	62	HIS	CG-CD2-NE2	-5.20	102.00	107.20
1	9i	34	PRO	CA-C-N	5.20	129.00	120.63
1	9i	34	PRO	C-N-CA	5.20	129.00	120.63
1	9q	63	GLN	CA-C-O	5.20	125.95	119.97
1	9r	22	ALA	N-CA-C	5.20	116.95	111.28
1	9w	31	ALA	CB-CA-C	-5.20	109.60	115.79
1	9y	146	SER	N-CA-C	5.20	120.01	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9N	50	GLN	OE1-CD-NE2	5.20	127.80	122.60
1	Y	200	THR	O-C-N	-5.20	116.61	122.12
1	9U	153	ILE	N-CA-C	5.20	116.39	109.37
1	a6	39	MET	CA-C-O	5.20	126.01	120.24
1	10	87	HIS	CB-CG-ND1	5.20	130.50	122.70
1	ae	92	GLU	N-CA-C	5.20	116.43	109.83
1	ag	200	THR	N-CA-C	5.20	117.62	111.33
1	ak	133	TRP	O-C-N	-5.20	116.61	122.12
1	am	174	ALA	CA-C-N	5.20	129.10	120.94
1	am	174	ALA	C-N-CA	5.20	129.10	120.94
1	ar	198	CYS	CA-C-O	5.20	126.25	120.63
1	ax	162	ARG	CA-CB-CG	-5.20	103.70	114.10
1	az	105	ALA	N-CA-C	-5.20	106.91	113.20
1	13	114	GLN	N-CA-C	5.20	117.03	111.36
1	aF	137	GLY	N-CA-C	5.20	119.42	112.77
1	aG	118	MET	N-CA-C	-5.20	106.78	113.23
1	14	127	GLY	CA-C-O	5.20	125.65	120.09
1	aR	22	ALA	CA-C-N	5.20	127.25	120.28
1	aR	22	ALA	C-N-CA	5.20	127.25	120.28
1	aT	11	VAL	O-C-N	-5.20	116.60	122.94
1	aV	29	GLU	O-C-N	-5.20	116.48	122.09
1	aZ	72	THR	CA-C-O	-5.20	115.04	120.55
1	16	53	ASN	CA-CB-CG	5.20	117.80	112.60
1	bc	166	ASP	N-CA-CB	-5.20	102.19	109.94
1	bh	139	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	bq	227	LYS	O-C-N	-5.20	115.67	122.59
1	18	16	SER	CA-C-N	5.20	126.34	119.84
1	18	16	SER	C-N-CA	5.20	126.34	119.84
1	bu	67	GLN	N-CA-C	5.20	116.95	111.28
1	bA	57	ASN	N-CA-C	5.20	117.03	111.36
1	19	126	VAL	CA-C-N	5.20	125.71	119.94
1	19	126	VAL	C-N-CA	5.20	125.71	119.94
1	bG	22	ALA	CA-C-N	5.20	127.20	120.44
1	bG	22	ALA	C-N-CA	5.20	127.20	120.44
1	bI	56	LEU	O-C-N	-5.20	116.22	122.15
1	bL	57	ASN	CA-C-N	5.20	128.21	120.31
1	bL	57	ASN	C-N-CA	5.20	128.21	120.31
1	c0	89	GLY	O-C-N	5.20	126.97	121.77
1	c3	12	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	cf	27	VAL	CA-C-N	5.20	127.50	120.38
1	cf	27	VAL	C-N-CA	5.20	127.50	120.38
1	ci	158	LYS	O-C-N	-5.20	116.07	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	co	203	LYS	CA-C-N	5.20	127.20	120.44
1	co	203	LYS	C-N-CA	5.20	127.20	120.44
1	cx	27	VAL	N-CA-C	5.20	115.92	110.62
1	cy	27	VAL	N-CA-C	5.20	115.92	110.62
1	cy	167	ARG	N-CA-C	5.20	116.95	111.28
1	cB	20	LEU	CA-C-N	5.20	127.25	120.28
1	cB	20	LEU	C-N-CA	5.20	127.25	120.28
1	cB	133	TRP	CB-CG-CD1	5.20	134.70	126.90
1	cB	140	LYS	CG-CD-CE	5.20	123.26	111.30
1	cO	40	PHE	CA-C-N	5.20	127.56	120.54
1	cO	40	PHE	C-N-CA	5.20	127.56	120.54
1	d4	16	SER	CA-C-O	5.20	126.12	119.67
1	d7	47	ALA	N-CA-C	5.20	117.84	110.10
1	db	27	VAL	CA-CB-CG2	-5.20	101.56	110.40
1	db	110	THR	N-CA-CB	5.20	117.50	110.38
1	db	167	ARG	N-CA-C	5.20	116.95	111.28
1	de	41	SER	CA-C-N	5.20	127.25	120.28
1	de	41	SER	C-N-CA	5.20	127.25	120.28
1	df	13	GLN	O-C-N	-5.20	116.84	123.24
1	dn	129	ILE	CA-C-N	5.20	127.67	120.29
1	dn	129	ILE	C-N-CA	5.20	127.67	120.29
1	dp	126	VAL	N-CA-C	5.20	115.92	110.62
1	dH	159	GLU	N-CA-CB	-5.20	103.42	110.23
1	dN	12	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	dR	95	GLN	CB-CG-CD	-5.20	103.76	112.60
1	1n	213	GLU	CA-C-N	5.20	127.20	120.44
1	1n	213	GLU	C-N-CA	5.20	127.20	120.44
1	dV	226	HIS	O-C-N	-5.20	114.70	122.39
1	dY	204	ALA	CA-C-O	5.20	126.06	120.55
1	dZ	116	GLY	O-C-N	-5.20	115.94	122.70
1	e2	192	GLN	CB-CA-C	-5.20	102.01	110.85
1	e5	55	MET	CG-SD-CE	-5.20	89.46	100.90
1	ea	50	GLN	O-C-N	-5.20	116.61	122.12
1	eg	176	GLN	N-CA-CB	5.20	118.65	110.23
1	eh	41	SER	N-CA-C	5.20	116.95	111.28
1	ej	209	ALA	CA-C-O	5.20	126.25	120.43
1	em	205	LEU	N-CA-C	5.20	116.95	111.28
1	1r	116	GLY	N-CA-C	5.20	118.97	112.73
1	1r	183	ASN	OD1-CG-ND2	5.20	127.80	122.60
1	1r	226	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	eB	57	ASN	CA-CB-CG	-5.20	107.40	112.60
1	eJ	4	GLN	N-CA-CB	5.20	119.28	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	193	ASN	O-C-N	-5.20	115.95	122.24
1	eS	114	GLN	N-CA-C	5.20	117.35	111.11
1	eS	181	VAL	CA-C-N	5.20	127.25	120.28
1	eS	181	VAL	C-N-CA	5.20	127.25	120.28
1	eW	159	GLU	CA-C-O	-5.20	114.34	119.49
1	f1	154	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	f5	101	GLY	CA-C-N	5.20	127.67	120.29
1	f5	101	GLY	C-N-CA	5.20	127.67	120.29
1	f9	70	LYS	CA-C-N	5.20	127.25	120.28
1	f9	70	LYS	C-N-CA	5.20	127.25	120.28
1	ff	183	ASN	CA-C-O	5.20	126.01	120.24
1	fi	155	GLN	CB-CG-CD	-5.20	103.76	112.60
1	fr	41	SER	N-CA-C	5.20	116.63	111.07
1	fI	133	TRP	CE2-CD2-CE3	5.20	124.00	118.80
1	fL	23	TRP	CE2-CD2-CE3	-5.20	113.60	118.80
1	d	6	LEU	N-CA-C	-5.20	105.79	111.82
1	e	123	PRO	N-CA-C	5.20	119.36	111.15
1	l	45	GLU	N-CA-C	5.20	117.84	110.10
1	u	189	LEU	N-CA-C	5.20	117.69	111.71
1	A	18	ARG	O-C-N	5.20	127.63	122.12
1	A	165	VAL	N-CA-C	5.20	115.41	110.42
1	C	27	VAL	CA-C-O	5.20	126.36	120.85
1	D	198	CYS	O-C-N	-5.20	116.22	122.15
1	J	171	THR	CA-C-O	-5.20	115.04	120.55
1	O	200	THR	CA-C-O	5.20	126.28	120.82
1	W	142	VAL	CA-C-O	-5.20	115.54	120.95
1	W	179	GLN	CA-C-O	-5.20	115.34	120.90
1	gb	130	TYR	CB-CG-CD2	-5.20	113.00	120.80
1	gc	213	GLU	N-CA-C	5.20	116.94	111.28
1	gd	146	SER	N-CA-CB	5.20	119.88	109.28
1	1C	50	GLN	O-C-N	-5.20	116.72	122.07
1	gC	185	MET	N-CA-CB	5.20	117.72	109.82
1	gF	21	ASN	OD1-CG-ND2	5.20	127.80	122.60
1	gP	183	ASN	N-CA-CB	5.20	117.55	110.01
1	gZ	120	HIS	CG-CD2-NE2	5.20	112.40	107.20
1	hd	168	PHE	CA-CB-CG	5.20	119.00	113.80
1	hk	119	THR	CA-CB-OG1	5.20	117.39	109.60
1	hD	33	SER	N-CA-CB	5.20	116.64	111.29
1	hH	99	PRO	O-C-N	-5.20	116.74	123.03
1	iL	84	HIS	CA-C-N	5.20	125.13	119.78
1	iL	84	HIS	C-N-CA	5.20	125.13	119.78
1	iW	59	VAL	N-CA-C	5.20	115.70	108.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	107	THR	CA-CB-OG1	5.20	117.40	109.60
1	ja	102	SER	N-CA-C	5.20	117.85	111.82
1	jc	204	ALA	CA-C-O	5.20	125.97	120.10
1	jS	110	THR	CA-C-N	5.20	127.67	120.29
1	jS	110	THR	C-N-CA	5.20	127.67	120.29
1	1Z	119	THR	CA-C-O	5.20	125.35	119.27
1	ki	203	LYS	CB-CA-C	5.20	119.69	110.85
1	ko	205	LEU	CA-C-N	5.20	130.03	121.87
1	ko	205	LEU	C-N-CA	5.20	130.03	121.87
1	kC	94	GLY	O-C-N	-5.20	115.94	122.70
1	kS	129	ILE	CA-C-N	5.20	127.24	120.28
1	kS	129	ILE	C-N-CA	5.20	127.24	120.28
1	kT	28	GLU	O-C-N	-5.20	116.22	122.15
1	ld	22	ALA	CA-C-N	5.20	127.56	120.54
1	ld	22	ALA	C-N-CA	5.20	127.56	120.54
1	ll	18	ARG	NH1-CZ-NH2	-5.20	112.54	119.30
1	lz	120	HIS	CG-CD2-NE2	5.20	112.40	107.20
1	2j	33	SER	N-CA-C	5.20	116.24	109.64
1	2A	9	GLN	O-C-N	-5.20	115.90	122.19
1	2D	57	ASN	CA-C-O	5.20	125.75	119.31
1	2Q	13	GLN	CG-CD-OE1	5.20	131.19	120.80
1	2V	132	ARG	N-CA-CB	5.20	117.76	110.12
1	3b	133	TRP	CE2-CD2-CE3	5.20	124.00	118.80
1	3n	195	ASN	CB-CA-C	5.20	118.86	109.61
1	3K	161	PHE	CA-C-N	5.20	127.20	120.44
1	3K	161	PHE	C-N-CA	5.20	127.20	120.44
1	3P	225	GLY	CA-C-N	5.20	128.93	121.50
1	3P	225	GLY	C-N-CA	5.20	128.93	121.50
1	3T	61	GLY	CA-C-O	-5.20	115.35	122.31
1	42	152	ASP	CA-C-N	5.20	128.98	121.18
1	42	152	ASP	C-N-CA	5.20	128.98	121.18
1	4d	58	THR	CA-C-O	-5.20	113.66	119.79
1	4e	230	VAL	N-CA-C	5.20	117.03	108.97
1	4q	57	ASN	CA-CB-CG	-5.20	107.40	112.60
1	4X	11	VAL	CB-CA-C	5.20	118.49	110.28
1	5j	115	ILE	CA-C-N	5.20	125.75	119.98
1	5j	115	ILE	C-N-CA	5.20	125.75	119.98
1	6d	159	GLU	O-C-N	-5.20	116.52	121.20
1	6E	163	ASP	CA-CB-CG	5.20	117.80	112.60
1	71	151	LEU	N-CA-CB	-5.20	102.33	110.44
1	76	87	HIS	CB-CA-C	5.20	120.09	112.09
1	7s	116	GLY	CA-C-O	-5.20	114.58	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	219	GLN	N-CA-CB	5.20	119.27	110.49
1	7A	193	ASN	CA-C-N	5.20	128.46	120.82
1	7A	193	ASN	C-N-CA	5.20	128.46	120.82
1	7J	78	ALA	CA-C-O	5.20	126.06	120.55
1	7W	72	THR	N-CA-CB	5.20	117.55	110.01
1	87	170	LYS	N-CA-C	5.20	116.94	111.28
1	89	188	THR	CA-C-N	5.20	127.56	120.54
1	89	188	THR	C-N-CA	5.20	127.56	120.54
1	8d	172	LEU	CA-C-O	5.20	126.06	120.55
1	8f	90	PRO	N-CA-CB	-5.20	96.94	102.76
1	8V	195	ASN	CA-C-O	-5.20	115.29	120.64
1	95	50	GLN	CA-C-O	5.20	125.93	120.42
1	9v	20	LEU	O-C-N	-5.20	116.61	122.12
1	9z	129	ILE	CA-C-N	5.20	127.20	120.44
1	9z	129	ILE	C-N-CA	5.20	127.20	120.44
1	9B	183	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	as	66	MET	O-C-N	-5.20	115.88	122.27
1	aG	28	GLU	O-C-N	5.20	127.50	122.09
1	aG	84	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	14	11	VAL	CA-C-O	5.20	126.64	120.72
1	bc	118	MET	N-CA-C	5.20	117.62	111.33
1	bt	52	LEU	CA-C-O	5.20	126.28	120.82
1	bP	202	LEU	CA-C-O	5.20	126.28	120.82
1	c2	56	LEU	CB-CA-C	-5.20	102.02	110.85
1	c4	153	ILE	CA-C-N	5.20	130.69	121.80
1	c4	153	ILE	C-N-CA	5.20	130.69	121.80
1	ck	183	ASN	O-C-N	-5.20	116.22	122.15
1	cn	92	GLU	CA-C-N	5.20	126.62	120.23
1	cn	92	GLU	C-N-CA	5.20	126.62	120.23
1	ct	97	ARG	N-CA-CB	-5.20	103.22	110.29
1	cB	165	VAL	N-CA-CB	5.20	116.63	110.55
1	cE	146	SER	CA-C-N	5.20	126.34	119.84
1	cE	146	SER	C-N-CA	5.20	126.34	119.84
1	cN	166	ASP	O-C-N	-5.20	116.22	122.15
1	d3	157	PRO	CB-CA-C	5.20	119.68	111.31
1	1k	230	VAL	CB-CA-C	-5.20	104.11	111.28
1	do	135	ILE	CA-C-O	-5.20	114.86	120.47
1	dN	57	ASN	CB-CG-OD1	5.20	131.19	120.80
1	dQ	199	LYS	N-CA-C	5.20	121.87	110.80
1	ee	185	MET	CB-CA-C	5.20	119.04	110.88
1	1r	183	ASN	CB-CG-ND2	-5.20	108.61	116.40
1	eR	213	GLU	CA-C-N	5.20	127.20	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eR	213	GLU	C-N-CA	5.20	127.20	120.44
1	eU	171	THR	CA-C-O	-5.20	115.36	120.82
1	f7	123	PRO	CA-C-O	-5.20	115.61	121.43
1	fd	10	MET	N-CA-C	5.20	117.84	110.10
1	fw	40	PHE	N-CA-CB	-5.20	102.48	110.12
1	1y	32	PHE	O-C-N	5.20	129.11	123.13
1	fF	108	THR	CA-CB-CG2	-5.20	101.67	110.50
1	fZ	122	PRO	CA-N-CD	-5.20	104.22	111.50
1	i	115	ILE	CA-C-N	5.20	125.86	119.99
1	i	115	ILE	C-N-CA	5.20	125.86	119.99
1	E	73	ILE	CB-CA-C	-5.20	103.84	112.26
1	g9	25	LYS	O-C-N	5.20	127.63	122.12
1	ga	80	TRP	N-CA-C	5.20	117.85	111.82
1	gd	15	ILE	N-CA-C	5.20	116.28	109.58
1	go	155	GLN	O-C-N	-5.20	117.24	123.06
1	gw	153	ILE	CA-C-O	5.20	126.74	120.66
1	gA	192	GLN	CA-C-O	-5.20	115.04	120.55
1	gB	18	ARG	NH1-CZ-NH2	-5.20	112.55	119.30
1	gB	34	PRO	CA-C-N	5.20	127.97	120.38
1	gB	34	PRO	C-N-CA	5.20	127.97	120.38
1	gG	1	PRO	N-CA-CB	5.20	108.71	103.00
1	gJ	180	GLU	CA-C-O	5.20	126.06	120.55
1	gS	168	PHE	CA-C-N	5.20	127.19	120.44
1	gS	168	PHE	C-N-CA	5.20	127.19	120.44
1	h9	104	ILE	O-C-N	5.20	127.18	121.83
1	hb	118	MET	CA-C-N	5.20	131.50	122.56
1	hb	118	MET	C-N-CA	5.20	131.50	122.56
1	hq	115	ILE	CA-C-O	-5.20	115.87	121.27
1	ht	140	LYS	CB-CA-C	-5.20	102.17	110.79
1	hC	110	THR	N-CA-CB	5.20	117.87	110.44
1	hL	42	ALA	CA-C-N	5.20	130.96	122.65
1	hL	42	ALA	C-N-CA	5.20	130.96	122.65
1	i4	79	GLU	CA-C-O	5.20	126.24	120.63
1	i7	26	VAL	N-CA-C	5.20	115.92	110.62
1	i9	200	THR	CA-C-N	5.20	127.11	120.56
1	i9	200	THR	C-N-CA	5.20	127.11	120.56
1	ie	173	ARG	NE-CZ-NH2	-5.20	114.53	119.20
1	in	40	PHE	CA-CB-CG	-5.20	108.60	113.80
1	io	1	PRO	CA-N-CD	-5.20	104.72	112.00
1	it	96	MET	CG-SD-CE	-5.20	89.47	100.90
1	iw	173	ARG	O-C-N	-5.20	116.69	122.09
1	iy	64	ALA	O-C-N	-5.20	116.61	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iH	65	ALA	CA-C-O	5.20	126.06	120.55
1	1R	144	MET	CA-CB-CG	5.20	124.49	114.10
1	iJ	219	GLN	N-CA-C	-5.20	102.36	110.10
1	iK	69	LEU	CB-CA-C	5.20	119.04	110.88
1	iK	226	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	1S	162	ARG	N-CA-C	5.20	117.62	111.33
1	iS	163	ASP	N-CA-C	5.20	117.02	111.36
1	iX	171	THR	N-CA-CB	5.20	117.54	110.01
1	jb	13	GLN	CB-CG-CD	5.20	121.43	112.60
1	1U	37	ILE	CB-CA-C	-5.20	108.84	114.35
1	jg	183	ASN	CA-C-O	-5.20	115.37	120.82
1	jo	201	ILE	CA-C-O	-5.20	115.34	120.85
1	jq	226	HIS	CE1-NE2-CD2	-5.20	103.81	109.00
1	js	177	ALA	CB-CA-C	5.20	117.82	109.61
1	jx	71	GLU	CA-C-N	5.20	127.24	120.28
1	jx	71	GLU	C-N-CA	5.20	127.24	120.28
1	jX	104	ILE	CA-C-O	-5.20	115.55	120.95
1	k1	62	HIS	CA-C-N	5.20	129.40	120.72
1	k1	62	HIS	C-N-CA	5.20	129.40	120.72
1	k2	164	TYR	CA-C-O	5.20	126.27	120.82
1	k2	168	PHE	N-CA-CB	-5.20	102.48	110.01
1	k5	132	ARG	NH1-CZ-NH2	-5.20	112.55	119.30
1	k6	155	GLN	O-C-N	-5.20	116.48	122.87
1	kg	162	ARG	NE-CZ-NH1	5.20	126.69	121.50
1	km	154	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	ko	138	LEU	O-C-N	-5.20	116.23	122.15
1	kv	171	THR	CA-C-O	5.20	125.75	119.31
1	kA	124	ILE	N-CA-CB	5.20	118.48	111.21
1	kC	154	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	kD	154	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	kG	26	VAL	CB-CA-C	-5.20	105.32	111.97
1	kG	211	LEU	N-CA-C	5.20	116.94	111.28
1	kI	84	HIS	N-CA-C	5.20	118.67	109.58
1	25	33	SER	N-CA-C	5.20	117.25	110.08
1	25	108	THR	CB-CA-C	5.20	118.69	109.65
1	lb	184	TRP	CA-C-O	5.20	125.93	120.42
1	ld	114	GLN	N-CA-C	5.20	116.94	111.28
1	li	52	LEU	N-CA-CB	5.20	117.54	110.01
1	lp	175	GLU	N-CA-C	5.20	117.75	109.96
1	lv	58	THR	CA-CB-CG2	5.20	119.33	110.50
1	lz	67	GLN	O-C-N	-5.20	116.23	122.15
1	lC	228	ALA	N-CA-CB	5.20	117.77	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lH	1	PRO	CA-C-N	5.20	129.50	121.71
1	lH	1	PRO	C-N-CA	5.20	129.50	121.71
1	lK	128	GLU	CA-C-N	5.20	127.58	120.46
1	lK	128	GLU	C-N-CA	5.20	127.58	120.46
1	lL	132	ARG	CA-C-O	-5.20	114.91	120.42
1	lO	208	ALA	N-CA-CB	-5.20	102.48	110.12
1	lP	206	GLY	CA-C-O	-5.20	114.09	121.52
1	2c	144	MET	O-C-N	-5.20	116.72	122.07
1	2h	34	PRO	CA-C-N	5.20	129.40	120.72
1	2h	34	PRO	C-N-CA	5.20	129.40	120.72
1	2h	40	PHE	O-C-N	-5.20	116.61	122.12
1	2x	156	GLY	O-C-N	-5.20	116.57	121.77
1	2A	74	ASN	OD1-CG-ND2	-5.20	117.41	122.60
1	2J	76	GLU	CA-C-O	5.20	125.93	120.42
1	2K	221	VAL	CA-CB-CG1	-5.20	101.57	110.40
1	2N	53	ASN	CA-C-N	5.20	128.01	120.79
1	2N	53	ASN	C-N-CA	5.20	128.01	120.79
1	2U	181	VAL	CB-CA-C	-5.20	105.32	111.97
1	2W	227	LYS	N-CA-C	5.20	116.80	110.41
1	36	210	THR	CA-C-N	5.20	127.50	120.38
1	36	210	THR	C-N-CA	5.20	127.50	120.38
1	39	104	ILE	CA-C-O	-5.20	115.66	121.17
1	3a	170	LYS	CB-CA-C	-5.20	102.02	110.85
1	3c	15	ILE	CA-C-O	5.20	126.79	121.23
1	3j	115	ILE	O-C-N	-5.20	116.83	121.87
1	3m	37	ILE	CA-C-O	-5.20	112.99	119.95
1	3G	158	LYS	CA-C-O	5.20	125.61	119.48
1	3H	65	ALA	CA-C-N	5.20	127.67	120.29
1	3H	65	ALA	C-N-CA	5.20	127.67	120.29
1	3L	184	TRP	CB-CG-CD2	5.20	134.07	126.80
1	3P	216	THR	O-C-N	-5.20	115.87	122.26
1	4h	18	ARG	CA-C-N	5.20	127.24	120.28
1	4h	18	ARG	C-N-CA	5.20	127.24	120.28
1	4h	173	ARG	N-CA-CB	-5.20	102.48	110.01
1	4t	113	GLU	N-CA-CB	-5.20	102.47	110.16
1	4I	93	PRO	N-CA-C	5.20	119.73	111.26
1	4L	112	GLN	OE1-CD-NE2	-5.20	117.41	122.60
1	4M	112	GLN	CB-CG-CD	5.20	121.43	112.60
1	4M	117	TRP	CA-CB-CG	5.20	123.47	113.60
1	4M	169	TYR	CA-C-O	-5.20	115.04	120.55
1	4Y	18	ARG	O-C-N	-5.20	116.61	122.12
1	51	117	TRP	N-CA-C	5.20	116.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	52	162	ARG	CA-C-O	-5.20	114.23	120.10
1	5b	138	LEU	CA-C-N	5.20	127.19	120.44
1	5b	138	LEU	C-N-CA	5.20	127.19	120.44
1	5l	191	VAL	N-CA-C	5.20	117.11	112.17
1	5q	145	TYR	N-CA-C	-5.20	106.80	112.72
1	5t	87	HIS	N-CA-CB	5.20	119.45	111.24
1	5z	42	ALA	O-C-N	5.20	128.30	122.22
1	5G	20	LEU	CA-C-O	5.20	126.05	120.70
1	5W	47	ALA	N-CA-C	5.20	117.97	110.28
1	5Y	62	HIS	CB-CG-CD2	-5.20	124.44	131.20
1	65	38	PRO	N-CA-CB	5.20	109.26	103.44
1	65	133	TRP	CB-CG-CD2	-5.20	119.53	126.80
1	6e	85	PRO	N-CD-CG	5.20	110.99	103.20
1	6e	103	ASP	N-CA-CB	5.20	117.82	110.13
1	6j	113	GLU	O-C-N	-5.20	116.23	122.15
1	6j	226	HIS	CA-CB-CG	-5.20	108.60	113.80
1	6n	120	HIS	CB-CA-C	-5.20	103.41	109.80
1	6o	123	PRO	CB-CA-C	5.20	117.79	110.98
1	6t	134	ILE	N-CA-C	5.20	115.97	110.72
1	6E	129	ILE	CA-CB-CG2	-5.20	101.67	110.50
1	6H	20	LEU	N-CA-C	5.20	116.94	111.28
1	6H	84	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	6I	20	LEU	O-C-N	-5.20	116.72	122.07
1	6J	74	ASN	N-CA-C	5.20	116.94	111.28
1	6W	134	ILE	O-C-N	-5.20	116.82	121.91
1	6Y	167	ARG	CD-NE-CZ	5.20	131.67	124.40
1	75	188	THR	CA-C-O	5.20	127.94	120.51
1	76	166	ASP	O-C-N	-5.20	116.72	122.07
1	77	119	THR	CA-CB-OG1	5.20	117.39	109.60
1	7o	184	TRP	CA-C-O	5.20	126.06	120.55
1	7v	132	ARG	NE-CZ-NH2	-5.20	114.52	119.20
1	7D	143	ARG	CG-CD-NE	-5.20	100.57	112.00
1	7I	28	GLU	N-CA-C	5.20	116.63	110.97
1	7K	89	GLY	CA-C-O	-5.20	114.09	121.52
1	7L	226	HIS	N-CA-C	5.20	117.56	110.24
1	7S	37	ILE	CA-C-N	5.20	126.33	119.84
1	7S	37	ILE	C-N-CA	5.20	126.33	119.84
1	7Y	216	THR	CA-C-N	5.20	128.60	120.75
1	7Y	216	THR	C-N-CA	5.20	128.60	120.75
1	95	117	TRP	CG-CD2-CE3	-5.20	128.71	133.90
1	9e	30	LYS	N-CA-C	-5.20	105.66	112.41
1	9g	71	GLU	CA-C-N	5.20	127.67	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9g	71	GLU	C-N-CA	5.20	127.67	120.29
1	9v	21	ASN	OD1-CG-ND2	-5.20	117.40	122.60
1	9F	23	TRP	CB-CG-CD1	-5.20	119.11	126.90
1	9L	21	ASN	CA-C-N	5.20	127.51	120.44
1	9L	21	ASN	C-N-CA	5.20	127.51	120.44
1	9L	86	VAL	O-C-N	-5.20	117.04	122.81
1	9S	171	THR	CA-C-N	5.20	127.24	120.28
1	9S	171	THR	C-N-CA	5.20	127.24	120.28
1	aa	107	THR	CA-C-O	-5.20	115.36	120.82
1	ab	18	ARG	N-CA-C	5.20	117.34	111.11
1	ae	226	HIS	CE1-NE2-CD2	-5.20	103.81	109.00
1	af	58	THR	CA-C-N	5.20	128.28	120.69
1	af	58	THR	C-N-CA	5.20	128.28	120.69
1	ai	21	ASN	N-CA-C	5.20	116.94	111.28
1	11	228	ALA	N-CA-C	5.20	117.56	110.24
1	av	23	TRP	CA-CB-CG	5.20	123.47	113.60
1	aB	91	ILE	N-CA-C	-5.20	107.34	113.42
1	aD	184	TRP	CB-CA-C	5.20	119.42	110.79
1	aL	166	ASP	CA-C-O	5.20	126.46	120.90
1	aN	196	PRO	N-CA-C	5.20	122.20	113.78
1	aX	191	VAL	CA-C-N	5.20	127.24	120.28
1	aX	191	VAL	C-N-CA	5.20	127.24	120.28
1	b2	50	GLN	CA-C-N	5.20	127.19	120.44
1	b2	50	GLN	C-N-CA	5.20	127.19	120.44
1	b6	102	SER	N-CA-C	5.20	116.94	111.28
1	be	227	LYS	CA-C-N	5.20	131.46	121.54
1	be	227	LYS	C-N-CA	5.20	131.46	121.54
1	br	102	SER	N-CA-CB	5.20	119.02	110.39
1	18	24	VAL	N-CA-CB	-5.20	103.47	110.54
1	by	191	VAL	CA-C-O	5.20	126.35	120.95
1	bA	19	THR	CA-C-N	5.20	127.24	120.28
1	bA	19	THR	C-N-CA	5.20	127.24	120.28
1	1b	75	GLU	N-CA-CB	-5.20	102.47	110.16
1	bY	20	LEU	CA-C-N	5.20	127.51	120.44
1	bY	20	LEU	C-N-CA	5.20	127.51	120.44
1	c4	221	VAL	O-C-N	-5.20	117.19	122.54
1	ch	23	TRP	N-CA-C	5.20	116.63	111.07
1	ch	226	HIS	CB-CA-C	5.20	118.20	109.89
1	cj	126	VAL	CA-C-N	5.20	125.75	119.98
1	cj	126	VAL	C-N-CA	5.20	125.75	119.98
1	cu	195	ASN	N-CA-C	-5.20	103.49	109.93
1	cw	185	MET	CA-C-N	5.20	127.67	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cw	185	MET	C-N-CA	5.20	127.67	120.29
1	cH	131	LYS	N-CA-CB	5.20	117.55	110.01
1	cK	1	PRO	CA-C-N	-5.20	116.25	122.90
1	cK	1	PRO	C-N-CA	-5.20	116.25	122.90
1	cN	229	ARG	CA-C-O	5.20	125.07	119.15
1	cO	213	GLU	CA-CB-CG	-5.20	103.71	114.10
1	cQ	17	PRO	N-CA-CB	-5.20	98.28	103.48
1	cU	152	ASP	CA-C-N	5.20	129.50	121.71
1	cU	152	ASP	C-N-CA	5.20	129.50	121.71
1	cV	124	ILE	CA-C-O	-5.20	115.30	119.25
1	cW	139	ASN	CA-C-O	-5.20	115.34	120.90
1	cZ	26	VAL	O-C-N	-5.20	114.98	121.84
1	d1	103	ASP	CA-CB-CG	5.20	117.80	112.60
1	d2	56	LEU	O-C-N	-5.20	116.61	122.12
1	1i	189	LEU	N-CA-C	5.20	116.63	111.07
1	d5	181	VAL	CA-C-O	5.20	126.36	120.85
1	do	183	ASN	O-C-N	-5.20	116.72	122.07
1	dG	58	THR	N-CA-C	5.20	117.85	111.82
1	dH	27	VAL	CA-C-N	5.20	127.51	120.44
1	dH	27	VAL	C-N-CA	5.20	127.51	120.44
1	dJ	17	PRO	N-CD-CG	5.20	110.99	103.20
1	dM	51	ASP	N-CA-C	5.20	116.75	111.14
1	dR	210	THR	N-CA-CB	5.20	117.65	110.17
1	dZ	87	HIS	ND1-CE1-NE2	5.20	113.60	108.40
1	ej	100	ARG	N-CA-C	-5.20	103.06	110.59
1	ep	225	GLY	O-C-N	-5.20	116.37	122.50
1	et	132	ARG	N-CA-C	5.20	117.68	111.71
1	ev	219	GLN	CA-C-O	5.20	124.86	119.14
1	ey	126	VAL	CA-C-N	5.20	125.72	120.00
1	ey	126	VAL	C-N-CA	5.20	125.72	120.00
1	1s	209	ALA	N-CA-C	5.20	117.42	110.35
1	eI	197	ASP	CB-CA-C	-5.20	102.69	110.90
1	eS	229	ARG	N-CA-C	5.20	118.01	110.42
1	eU	146	SER	CA-C-O	5.20	123.16	119.32
1	f5	72	THR	O-C-N	-5.20	116.69	122.09
1	f9	121	ASN	O-C-N	-5.20	114.21	121.12
1	fh	115	ILE	O-C-N	5.20	126.91	121.87
1	fh	120	HIS	CA-C-N	5.20	129.52	122.56
1	fh	120	HIS	C-N-CA	5.20	129.52	122.56
1	fi	19	THR	CA-C-N	5.20	127.24	120.28
1	fi	19	THR	C-N-CA	5.20	127.24	120.28
1	1w	129	ILE	N-CA-C	5.20	115.92	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fq	15	ILE	CA-C-O	5.20	127.16	121.13
1	1x	10	MET	O-C-N	-5.20	117.46	123.33
1	fB	206	GLY	N-CA-C	5.20	122.94	112.34
1	fM	145	TYR	O-C-N	-5.20	115.49	122.19
1	fR	21	ASN	N-CA-CB	-5.20	102.20	109.94
1	fS	141	ILE	CA-C-N	5.20	127.11	120.56
1	fS	141	ILE	C-N-CA	5.20	127.11	120.56
1	fT	221	VAL	N-CA-C	-5.20	102.23	109.45
1	g	120	HIS	CA-C-N	5.20	134.48	121.80
1	g	120	HIS	C-N-CA	5.20	134.48	121.80
1	g	142	VAL	CA-C-O	5.20	126.35	120.95
1	j	120	HIS	CE1-NE2-CD2	-5.20	103.80	109.00
1	j	181	VAL	N-CA-C	5.20	115.92	110.62
1	s	158	LYS	CB-CG-CD	5.20	123.25	111.30
1	3	34	PRO	N-CD-CG	5.20	110.99	103.20
1	Q	9	GLN	N-CA-CB	5.20	118.77	110.46
1	T	114	GLN	CB-CA-C	-5.20	102.72	110.88
1	W	172	LEU	CA-C-N	5.20	127.76	120.28
1	W	172	LEU	C-N-CA	5.20	127.76	120.28
1	7	100	ARG	NE-CZ-NH1	5.20	126.70	121.50
1	gm	45	GLU	N-CA-C	5.19	117.61	111.33
1	h0	149	SER	N-CA-CB	5.19	119.27	110.49
1	h9	3	VAL	O-C-N	-5.19	117.36	122.76
1	hm	92	GLU	N-CA-C	5.19	116.24	109.64
1	hR	130	TYR	N-CA-C	5.19	116.94	111.28
1	hZ	183	ASN	N-CA-CB	5.19	117.54	110.01
1	i1	23	TRP	CB-CG-CD1	-5.19	119.11	126.90
1	i3	199	LYS	CA-C-N	5.19	127.55	120.54
1	i3	199	LYS	C-N-CA	5.19	127.55	120.54
1	is	23	TRP	CB-CG-CD2	5.19	134.07	126.80
1	iO	9	GLN	N-CA-C	5.19	117.82	110.50
1	jj	39	MET	CA-C-O	5.19	126.06	120.55
1	jk	12	HIS	CB-CG-ND1	5.19	130.49	122.70
1	jl	175	GLU	O-C-N	-5.19	117.14	123.16
1	1V	144	MET	CB-CA-C	5.19	119.03	110.88
1	jN	132	ARG	N-CA-C	5.19	116.94	111.28
1	1Y	151	LEU	CA-C-N	5.19	127.19	120.44
1	1Y	151	LEU	C-N-CA	5.19	127.19	120.44
1	jR	186	THR	O-C-N	-5.19	116.61	122.12
1	1Z	226	HIS	CB-CG-ND1	5.19	130.49	122.70
1	kd	84	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	ki	159	GLU	O-C-N	-5.19	116.89	121.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kv	55	MET	CB-CA-C	-5.19	101.02	110.63
1	kE	50	GLN	CA-C-N	5.19	127.50	120.44
1	kE	50	GLN	C-N-CA	5.19	127.50	120.44
1	kF	102	SER	CA-C-N	5.19	127.19	120.44
1	kF	102	SER	C-N-CA	5.19	127.19	120.44
1	kR	94	GLY	CA-C-O	5.19	124.95	119.03
1	l5	84	HIS	CA-C-O	5.19	125.57	120.17
1	ll	110	THR	CA-C-N	5.19	127.50	120.38
1	ll	110	THR	C-N-CA	5.19	127.50	120.38
1	28	44	SER	N-CA-C	-5.19	106.72	113.16
1	lC	153	ILE	CA-C-N	5.19	128.09	120.71
1	lC	153	ILE	C-N-CA	5.19	128.09	120.71
1	lG	68	MET	CA-C-O	5.19	125.93	120.42
1	lO	100	ARG	CD-NE-CZ	5.19	131.67	124.40
1	lR	226	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	2f	199	LYS	N-CA-C	5.19	116.94	111.28
1	2X	136	LEU	CB-CA-C	5.19	119.41	110.79
1	31	195	ASN	CA-CB-CG	5.19	117.79	112.60
1	39	224	PRO	O-C-N	5.19	129.59	122.99
1	3r	177	ALA	N-CA-CB	-5.19	102.83	110.26
1	3J	181	VAL	CB-CA-C	-5.19	105.13	112.14
1	3O	223	GLY	CA-C-N	5.19	126.33	119.84
1	3O	223	GLY	C-N-CA	5.19	126.33	119.84
1	3X	120	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	4W	205	LEU	N-CA-C	5.19	116.94	111.28
1	59	140	LYS	CA-C-N	5.19	127.80	120.42
1	59	140	LYS	C-N-CA	5.19	127.80	120.42
1	68	54	THR	N-CA-C	5.19	116.63	111.07
1	6E	159	GLU	N-CA-C	5.19	116.46	109.24
1	70	8	GLY	N-CA-C	5.19	118.11	112.29
1	7n	2	ILE	N-CA-CB	5.19	120.43	111.39
1	7s	97	ARG	CA-C-N	5.19	128.58	120.68
1	7s	97	ARG	C-N-CA	5.19	128.58	120.68
1	7C	93	PRO	CB-CA-C	-5.19	104.74	111.39
1	7I	43	LEU	CA-C-N	5.19	130.96	122.65
1	7I	43	LEU	C-N-CA	5.19	130.96	122.65
1	7Q	7	GLN	CB-CA-C	5.19	119.62	110.37
1	8O	190	LEU	CA-C-O	5.19	126.06	120.55
1	8V	46	GLY	O-C-N	-5.19	116.39	122.31
1	8Z	99	PRO	N-CA-CB	-5.19	97.21	102.72
1	95	165	VAL	CA-C-N	5.19	127.50	120.44
1	95	165	VAL	C-N-CA	5.19	127.50	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	155	GLN	N-CA-C	5.19	116.63	109.15
1	Y	226	HIS	CB-CA-C	-5.19	102.33	110.85
1	aj	24	VAL	CA-C-N	5.19	127.19	120.44
1	aj	24	VAL	C-N-CA	5.19	127.19	120.44
1	aT	159	GLU	CA-C-O	-5.19	114.61	119.80
1	b0	135	ILE	N-CA-C	5.19	115.92	110.62
1	b2	163	ASP	N-CA-C	5.19	116.63	111.07
1	b3	193	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	bg	9	GLN	N-CA-CB	-5.19	102.46	110.56
1	bv	57	ASN	CA-CB-CG	-5.19	107.41	112.60
1	bE	163	ASP	CA-CB-CG	5.19	117.79	112.60
1	bI	141	ILE	N-CA-CB	5.19	117.22	110.57
1	bJ	21	ASN	CA-C-O	5.19	125.94	119.97
1	c1	23	TRP	N-CA-C	5.19	116.63	111.07
1	c4	229	ARG	NE-CZ-NH2	5.19	123.87	119.20
1	cb	139	ASN	CA-CB-CG	5.19	117.79	112.60
1	cf	61	GLY	O-C-N	-5.19	115.69	122.81
1	cl	78	ALA	O-C-N	-5.19	115.88	122.27
1	co	210	THR	CA-C-O	-5.19	116.05	121.55
1	cv	188	THR	CA-CB-OG1	5.19	117.39	109.60
1	cX	26	VAL	CB-CA-C	-5.19	105.23	111.88
1	da	45	GLU	CA-C-O	5.19	126.67	120.70
1	dd	12	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	dn	32	PHE	N-CA-CB	-5.19	103.29	111.39
1	dp	25	LYS	N-CA-C	5.19	117.61	111.33
1	dq	5	ASN	CA-C-O	5.19	125.43	119.35
1	dJ	204	ALA	O-C-N	-5.19	116.23	122.15
1	dN	72	THR	O-C-N	-5.19	116.23	122.15
1	e6	215	MET	CG-SD-CE	-5.19	89.47	100.90
1	eB	191	VAL	CA-C-N	5.19	128.21	120.31
1	eB	191	VAL	C-N-CA	5.19	128.21	120.31
1	eK	46	GLY	CA-C-O	5.19	124.79	119.02
1	eK	181	VAL	CA-C-O	5.19	126.67	121.17
1	eX	81	ASP	CA-CB-CG	-5.19	107.41	112.60
1	fc	41	SER	N-CA-C	5.19	116.94	111.28
1	fj	138	LEU	CA-C-O	-5.19	115.04	120.55
1	fo	70	LYS	N-CA-C	5.19	117.34	111.11
1	fr	18	ARG	CB-CG-CD	5.19	123.25	111.30
1	fC	167	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	fF	129	ILE	CA-C-O	5.19	126.67	121.17
1	r	210	THR	CA-C-N	5.19	127.24	120.28
1	r	210	THR	C-N-CA	5.19	127.24	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	73	ILE	N-CA-C	5.19	115.41	110.42
1	4	5	ASN	CA-CB-CG	-5.19	107.41	112.60
1	6	76	GLU	N-CA-C	5.19	116.94	111.28
1	6	141	ILE	CA-CB-CG1	-5.19	101.57	110.40
1	g9	12	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	gd	96	MET	CG-SD-CE	-5.19	89.48	100.90
1	gg	12	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	gi	201	ILE	CA-C-N	5.19	127.24	120.28
1	gi	201	ILE	C-N-CA	5.19	127.24	120.28
1	gi	226	HIS	CA-CB-CG	5.19	118.99	113.80
1	gm	20	LEU	O-C-N	-5.19	116.61	122.12
1	gs	11	VAL	CA-C-N	5.19	131.47	122.64
1	gs	11	VAL	C-N-CA	5.19	131.47	122.64
1	gv	62	HIS	CA-C-N	5.19	127.66	120.29
1	gv	62	HIS	C-N-CA	5.19	127.66	120.29
1	gv	188	THR	CB-CA-C	-5.19	104.17	111.65
1	gB	128	GLU	CA-C-O	5.19	125.92	120.42
1	1E	163	ASP	O-C-N	-5.19	115.88	122.27
1	gI	48	THR	CA-C-N	5.19	124.64	119.24
1	gI	48	THR	C-N-CA	5.19	124.64	119.24
1	gI	153	ILE	CA-C-O	5.19	127.11	121.04
1	gJ	193	ASN	CA-CB-CG	-5.19	107.41	112.60
1	h1	54	THR	N-CA-C	5.19	117.02	111.36
1	ha	18	ARG	CA-C-N	5.19	127.24	120.28
1	ha	18	ARG	C-N-CA	5.19	127.24	120.28
1	hf	70	LYS	N-CA-C	5.19	117.61	111.33
1	hG	129	ILE	CB-CA-C	-5.19	105.33	111.97
1	hH	86	VAL	N-CA-C	-5.19	102.03	108.89
1	hP	12	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	hT	32	PHE	CA-CB-CG	-5.19	108.61	113.80
1	hT	102	SER	CA-C-N	5.19	127.19	120.44
1	hT	102	SER	C-N-CA	5.19	127.19	120.44
1	hX	162	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	i9	124	ILE	N-CA-C	-5.19	104.16	108.63
1	ia	15	ILE	N-CA-C	5.19	116.38	109.37
1	ie	23	TRP	N-CA-CB	-5.19	102.49	110.12
1	if	136	LEU	CA-C-O	-5.19	115.05	120.55
1	ij	37	ILE	N-CA-C	5.19	119.16	112.67
1	iB	78	ALA	O-C-N	-5.19	116.72	122.07
1	iR	58	THR	O-C-N	-5.19	115.47	122.43
1	1S	96	MET	CG-SD-CE	-5.19	89.48	100.90
1	j0	111	LEU	N-CA-C	5.19	116.94	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j9	66	MET	O-C-N	-5.19	116.62	122.12
1	jj	130	TYR	CA-C-O	-5.19	114.92	120.42
1	jj	183	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	jw	116	GLY	CA-C-N	5.19	127.66	120.29
1	jw	116	GLY	C-N-CA	5.19	127.66	120.29
1	jJ	51	ASP	CA-C-N	5.19	127.19	120.44
1	jJ	51	ASP	C-N-CA	5.19	127.19	120.44
1	jN	80	TRP	CA-CB-CG	5.19	123.47	113.60
1	jO	66	MET	O-C-N	-5.19	116.62	122.12
1	jR	173	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	jZ	91	ILE	CA-CB-CG1	5.19	119.23	110.40
1	k9	3	VAL	O-C-N	-5.19	117.57	123.18
1	k9	40	PHE	N-CA-C	5.19	116.62	111.07
1	kb	131	LYS	CA-C-N	5.19	127.24	120.28
1	kb	131	LYS	C-N-CA	5.19	127.24	120.28
1	kj	208	ALA	N-CA-C	5.19	118.44	112.57
1	kl	155	GLN	CG-CD-NE2	-5.19	108.61	116.40
1	kp	39	MET	CA-C-N	5.19	127.24	120.28
1	kp	39	MET	C-N-CA	5.19	127.24	120.28
1	kr	226	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	23	49	PRO	CB-CA-C	5.19	120.13	111.56
1	kE	80	TRP	CG-CD2-CE3	-5.19	128.71	133.90
1	kI	67	GLN	CA-C-N	5.19	127.66	120.29
1	kI	67	GLN	C-N-CA	5.19	127.66	120.29
1	kR	143	ARG	CA-C-O	5.19	125.97	120.10
1	kT	17	PRO	CA-C-N	5.19	127.19	120.44
1	kT	17	PRO	C-N-CA	5.19	127.19	120.44
1	l1	139	ASN	CA-CB-CG	5.19	117.79	112.60
1	l5	51	ASP	CA-C-N	5.19	127.19	120.44
1	l5	51	ASP	C-N-CA	5.19	127.19	120.44
1	l5	184	TRP	CE2-CD2-CE3	-5.19	113.61	118.80
1	l7	26	VAL	CB-CA-C	5.19	119.39	112.22
1	ld	82	ARG	O-C-N	-5.19	116.62	122.12
1	lh	206	GLY	O-C-N	-5.19	116.58	121.77
1	27	116	GLY	O-C-N	-5.19	117.20	122.19
1	li	142	VAL	N-CA-CB	5.19	117.60	110.54
1	lk	113	GLU	CA-C-N	5.19	127.19	120.44
1	lk	113	GLU	C-N-CA	5.19	127.19	120.44
1	lq	210	THR	CB-CA-C	5.19	118.92	109.83
1	lr	126	VAL	O-C-N	-5.19	116.80	121.89
1	lu	116	GLY	CA-C-N	5.19	127.66	120.29
1	lu	116	GLY	C-N-CA	5.19	127.66	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	29	27	VAL	CA-C-O	-5.19	115.55	120.95
1	lJ	17	PRO	CA-C-O	-5.19	112.21	119.74
1	lJ	198	CYS	CA-C-N	5.19	127.76	120.28
1	lJ	198	CYS	C-N-CA	5.19	127.76	120.28
1	2b	89	GLY	CA-C-N	5.19	125.92	120.11
1	2b	89	GLY	C-N-CA	5.19	125.92	120.11
1	2e	210	THR	CB-CA-C	-5.19	100.74	109.83
1	2g	162	ARG	CA-C-N	5.19	127.24	120.28
1	2g	162	ARG	C-N-CA	5.19	127.24	120.28
1	2h	138	LEU	CA-C-N	5.19	127.24	120.28
1	2h	138	LEU	C-N-CA	5.19	127.24	120.28
1	2i	146	SER	O-C-N	-5.19	115.35	121.32
1	2l	16	SER	CA-C-N	5.19	126.33	119.84
1	2l	16	SER	C-N-CA	5.19	126.33	119.84
1	2y	191	VAL	O-C-N	-5.19	116.82	121.91
1	2A	26	VAL	N-CA-CB	5.19	116.63	110.55
1	2B	135	ILE	N-CA-CB	5.19	116.27	110.51
1	2F	45	GLU	O-C-N	-5.19	116.10	123.01
1	2P	71	GLU	CA-C-N	5.19	127.50	120.44
1	2P	71	GLU	C-N-CA	5.19	127.50	120.44
1	2S	29	GLU	CB-CA-C	-5.19	100.62	109.65
1	32	133	TRP	CG-CD2-CE3	-5.19	128.71	133.90
1	38	229	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	39	74	ASN	N-CA-CB	-5.19	102.48	110.16
1	3f	42	ALA	CA-C-O	5.19	126.06	120.55
1	3n	63	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	3p	110	THR	CA-C-O	-5.19	115.97	121.94
1	3N	19	THR	N-CA-C	5.19	116.75	111.14
1	3P	200	THR	CA-C-N	5.19	127.58	120.46
1	3P	200	THR	C-N-CA	5.19	127.58	120.46
1	45	154	ARG	NE-CZ-NH2	-5.19	114.53	119.20
1	48	93	PRO	CB-CA-C	5.19	118.23	111.64
1	4h	151	LEU	N-CA-CB	-5.19	103.02	110.65
1	4A	46	GLY	O-C-N	-5.19	117.24	122.54
1	4G	132	ARG	CG-CD-NE	-5.19	100.58	112.00
1	53	140	LYS	CA-C-N	5.19	128.67	120.47
1	53	140	LYS	C-N-CA	5.19	128.67	120.47
1	55	168	PHE	CB-CG-CD1	-5.19	111.87	120.70
1	5e	86	VAL	CB-CA-C	5.19	119.81	111.29
1	5q	215	MET	CA-CB-CG	-5.19	103.72	114.10
1	5z	84	HIS	CA-CB-CG	5.19	118.99	113.80
1	5B	71	GLU	O-C-N	-5.19	116.48	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5J	175	GLU	CB-CA-C	5.19	118.92	109.62
1	5P	155	GLN	O-C-N	-5.19	116.48	122.87
1	63	63	GLN	N-CA-C	5.19	116.94	111.28
1	6a	78	ALA	CB-CA-C	-5.19	102.02	110.85
1	6b	44	SER	N-CA-CB	5.19	120.11	111.49
1	6b	103	ASP	CA-C-N	5.19	128.67	120.47
1	6b	103	ASP	C-N-CA	5.19	128.67	120.47
1	6g	21	ASN	O-C-N	-5.19	116.62	122.12
1	6i	104	ILE	N-CA-C	-5.19	104.48	111.44
1	6j	53	ASN	CB-CA-C	-5.19	102.17	110.79
1	6o	173	ARG	NH1-CZ-NH2	5.19	126.05	119.30
1	6o	181	VAL	N-CA-CB	5.19	118.37	110.58
1	6w	105	ALA	N-CA-C	5.19	116.94	111.28
1	6B	206	GLY	CA-C-N	5.19	125.89	120.12
1	6B	206	GLY	C-N-CA	5.19	125.89	120.12
1	6I	163	ASP	N-CA-C	5.19	117.34	111.11
1	6O	105	ALA	CA-C-O	5.19	125.92	119.12
1	6P	65	ALA	O-C-N	-5.19	116.62	122.12
1	72	97	ARG	N-CA-C	5.19	117.41	110.35
1	74	200	THR	CA-CB-CG2	-5.19	101.67	110.50
1	7b	132	ARG	NE-CZ-NH2	-5.19	114.53	119.20
1	7f	53	ASN	O-C-N	-5.19	116.62	122.12
1	7j	163	ASP	O-C-N	5.19	128.29	122.22
1	7m	7	GLN	CG-CD-NE2	-5.19	108.61	116.40
1	7u	9	GLN	CA-C-N	5.19	128.22	120.90
1	7u	9	GLN	C-N-CA	5.19	128.22	120.90
1	7A	35	GLU	CA-C-N	5.19	127.57	120.46
1	7A	35	GLU	C-N-CA	5.19	127.57	120.46
1	7E	115	ILE	CB-CA-C	5.19	120.67	112.26
1	7H	133	TRP	O-C-N	-5.19	116.48	122.09
1	7N	181	VAL	N-CA-CB	5.19	117.22	110.57
1	7Q	37	ILE	O-C-N	-5.19	117.10	120.42
1	7Y	48	THR	CA-CB-CG2	-5.19	101.67	110.50
1	80	97	ARG	NE-CZ-NH2	-5.19	114.53	119.20
1	8i	155	GLN	N-CA-C	5.19	117.56	110.24
1	8j	200	THR	CB-CA-C	-5.19	102.17	110.79
1	8l	108	THR	N-CA-CB	5.19	119.23	110.92
1	8l	133	TRP	N-CA-CB	5.19	117.84	110.16
1	8s	23	TRP	N-CA-CB	-5.19	102.48	110.01
1	8v	49	PRO	CB-CA-C	5.19	119.26	111.68
1	8v	85	PRO	CB-CA-C	5.19	117.78	110.98
1	92	84	HIS	N-CA-CB	5.19	118.22	110.02

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	92	109	SER	O-C-N	-5.19	117.05	123.33
1	94	76	GLU	N-CA-C	5.19	117.84	111.82
1	94	178	SER	CA-CB-OG	5.19	121.48	111.10
1	95	100	ARG	CA-C-O	5.19	128.48	121.89
1	98	169	TYR	CA-CB-CG	-5.19	104.55	113.90
1	9a	92	GLU	CB-CG-CD	-5.19	103.77	112.60
1	9a	129	ILE	CA-C-N	5.19	127.19	120.44
1	9a	129	ILE	C-N-CA	5.19	127.19	120.44
1	9c	58	THR	CB-CA-C	-5.19	100.62	109.65
1	9d	45	GLU	CB-CA-C	5.19	117.64	110.16
1	9i	113	GLU	O-C-N	-5.19	116.69	122.09
1	9J	195	ASN	CA-C-N	5.19	125.49	119.47
1	9J	195	ASN	C-N-CA	5.19	125.49	119.47
1	9O	16	SER	CA-C-N	5.19	125.24	119.32
1	9O	16	SER	C-N-CA	5.19	125.24	119.32
1	9V	203	LYS	CA-C-N	5.19	127.24	120.28
1	9V	203	LYS	C-N-CA	5.19	127.24	120.28
1	a2	155	GLN	N-CA-CB	-5.19	101.90	109.95
1	a7	18	ARG	CB-CA-C	-5.19	102.02	110.85
1	a7	190	LEU	N-CA-CB	-5.19	102.49	110.12
1	a8	51	ASP	CA-C-O	5.19	126.06	120.55
1	11	17	PRO	N-CA-C	-5.19	107.64	114.03
1	as	26	VAL	N-CA-CB	5.19	116.62	110.55
1	ax	84	HIS	N-CA-C	5.19	117.71	109.40
1	aQ	199	LYS	O-C-N	-5.19	116.62	122.12
1	aV	178	SER	CA-C-N	5.19	127.55	120.54
1	aV	178	SER	C-N-CA	5.19	127.55	120.54
1	aX	226	HIS	CA-C-O	5.19	125.50	119.32
1	aY	199	LYS	CA-C-O	5.19	126.27	120.82
1	b8	125	PRO	CA-C-O	-5.19	111.15	120.60
1	bd	206	GLY	CA-C-N	5.19	125.65	120.04
1	bd	206	GLY	C-N-CA	5.19	125.65	120.04
1	bh	176	GLN	O-C-N	-5.19	115.53	122.49
1	17	74	ASN	N-CA-C	5.19	116.94	111.28
1	br	62	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	bs	211	LEU	CA-C-O	5.19	125.97	120.10
1	bw	135	ILE	CA-C-N	5.19	127.55	120.54
1	bw	135	ILE	C-N-CA	5.19	127.55	120.54
1	by	167	ARG	NE-CZ-NH2	-5.19	114.53	119.20
1	bB	182	LYS	CA-C-N	5.19	127.19	120.44
1	bB	182	LYS	C-N-CA	5.19	127.19	120.44
1	bG	161	PHE	CA-C-O	5.19	126.24	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bP	38	PRO	CA-C-N	5.19	127.19	120.44
1	bP	38	PRO	C-N-CA	5.19	127.19	120.44
1	bP	192	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	bT	168	PHE	CA-CB-CG	-5.19	108.61	113.80
1	bU	21	ASN	N-CA-C	5.19	116.94	111.28
1	bU	226	HIS	O-C-N	-5.19	116.62	122.12
1	bV	96	MET	CB-CG-SD	5.19	128.28	112.70
1	bX	6	LEU	O-C-N	-5.19	115.91	122.19
1	c7	79	GLU	CA-C-N	5.19	127.66	120.29
1	c7	79	GLU	C-N-CA	5.19	127.66	120.29
1	cd	212	GLU	O-C-N	-5.19	116.23	122.15
1	cg	197	ASP	N-CA-CB	-5.19	102.31	110.46
1	cm	4	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	cn	197	ASP	CB-CA-C	-5.19	101.85	110.68
1	cs	1	PRO	N-CA-CB	5.19	108.71	103.00
1	cz	99	PRO	O-C-N	-5.19	116.87	123.10
1	cC	2	ILE	N-CA-C	-5.19	100.92	108.97
1	cE	185	MET	O-C-N	-5.19	116.62	122.12
1	cI	89	GLY	CA-C-N	5.19	126.33	119.84
1	cI	89	GLY	C-N-CA	5.19	126.33	119.84
1	cM	66	MET	N-CA-C	5.19	117.02	111.36
1	cM	207	PRO	N-CA-C	5.19	119.35	111.15
1	d4	130	TYR	CB-CG-CD2	-5.19	113.01	120.80
1	d6	147	PRO	N-CA-C	5.19	123.17	112.47
1	d7	226	HIS	N-CA-C	5.19	117.76	110.23
1	d9	93	PRO	CA-C-N	5.19	131.59	121.41
1	d9	93	PRO	C-N-CA	5.19	131.59	121.41
1	dg	152	ASP	CA-C-N	5.19	127.57	120.35
1	dg	152	ASP	C-N-CA	5.19	127.57	120.35
1	dn	211	LEU	CA-C-O	5.19	126.05	120.55
1	1k	143	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	dp	43	LEU	O-C-N	-5.19	115.04	122.41
1	dH	74	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	1m	148	THR	N-CA-CB	5.19	120.33	111.66
1	dK	170	LYS	CA-C-N	5.19	127.66	120.29
1	dK	170	LYS	C-N-CA	5.19	127.66	120.29
1	dR	46	GLY	N-CA-C	5.19	121.94	114.10
1	dR	68	MET	CA-C-N	5.19	127.66	120.29
1	dR	68	MET	C-N-CA	5.19	127.66	120.29
1	ea	167	ARG	NE-CZ-NH2	5.19	123.87	119.20
1	ef	95	GLN	CA-C-O	-5.19	115.00	120.92
1	ef	192	GLN	N-CA-C	5.19	121.86	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eh	170	LYS	N-CA-C	5.19	116.94	111.28
1	ep	210	THR	CA-CB-OG1	5.19	117.39	109.60
1	ex	168	PHE	CA-C-N	5.19	127.24	120.28
1	ex	168	PHE	C-N-CA	5.19	127.24	120.28
1	eR	74	ASN	CB-CG-OD1	5.19	131.19	120.80
1	f4	187	GLU	CA-C-O	-5.19	115.37	120.82
1	fa	200	THR	OG1-CB-CG2	-5.19	98.91	109.30
1	fi	212	GLU	N-CA-C	5.19	116.94	111.28
1	fj	95	GLN	CA-C-N	5.19	129.05	121.31
1	fj	95	GLN	C-N-CA	5.19	129.05	121.31
1	fv	53	ASN	CA-CB-CG	-5.19	107.41	112.60
1	fF	28	GLU	O-C-N	-5.19	116.28	122.20
1	fY	110	THR	N-CA-CB	5.19	118.77	110.46
1	1B	110	THR	OG1-CB-CG2	-5.19	98.92	109.30
1	c	1	PRO	CB-CA-C	5.19	119.97	110.10
1	h	192	GLN	CA-CB-CG	5.19	124.48	114.10
1	y	176	GLN	CA-C-O	-5.19	113.34	119.05
1	F	87	HIS	CA-CB-CG	-5.19	108.61	113.80
1	V	36	VAL	CB-CA-C	-5.19	105.13	112.14
1	V	105	ALA	O-C-N	-5.19	115.69	122.39
1	X	121	ASN	CB-CA-C	-5.19	102.92	109.31
1	6	7	GLN	OE1-CD-NE2	5.19	127.79	122.60
1	7	84	HIS	CA-CB-CG	-5.19	108.61	113.80
1	ga	226	HIS	CA-C-O	5.19	125.50	119.32
1	gc	210	THR	O-C-N	-5.19	116.82	122.84
1	gi	171	THR	CA-CB-OG1	5.19	117.39	109.60
1	gj	143	ARG	CA-C-N	5.19	127.23	120.28
1	gj	143	ARG	C-N-CA	5.19	127.23	120.28
1	gu	75	GLU	CA-C-N	5.19	128.20	120.31
1	gu	75	GLU	C-N-CA	5.19	128.20	120.31
1	gu	148	THR	CA-C-N	5.19	128.08	120.71
1	gu	148	THR	C-N-CA	5.19	128.08	120.71
1	gv	57	ASN	CA-C-N	5.19	130.79	121.66
1	gv	57	ASN	C-N-CA	5.19	130.79	121.66
1	gG	52	LEU	CA-C-N	5.19	127.19	120.44
1	gG	52	LEU	C-N-CA	5.19	127.19	120.44
1	1F	201	ILE	N-CA-C	5.19	116.54	110.62
1	gU	84	HIS	CA-CB-CG	-5.19	108.61	113.80
1	gY	131	LYS	CA-C-O	-5.19	115.02	120.63
1	h2	106	GLY	CA-C-O	5.19	124.88	119.07
1	1H	168	PHE	CA-CB-CG	5.19	118.99	113.80
1	hb	118	MET	N-CA-CB	5.19	117.53	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hd	169	TYR	CB-CG-CD1	-5.19	113.01	120.80
1	hg	230	VAL	CB-CA-C	-5.19	103.87	110.98
1	hj	63	GLN	N-CA-C	5.19	117.61	111.33
1	hl	172	LEU	CA-C-O	-5.19	115.35	120.70
1	hr	20	LEU	CB-CA-C	-5.19	102.70	110.90
1	hy	137	GLY	O-C-N	-5.19	117.20	122.18
1	hP	129	ILE	O-C-N	-5.19	116.82	121.91
1	hR	227	LYS	N-CA-C	5.19	118.16	110.48
1	hV	13	GLN	N-CA-C	5.19	118.19	110.14
1	i2	2	ILE	O-C-N	-5.19	117.73	123.18
1	1N	8	GLY	CA-C-N	5.19	130.38	122.65
1	1N	8	GLY	C-N-CA	5.19	130.38	122.65
1	ic	25	LYS	CA-C-N	5.19	127.10	120.56
1	ic	25	LYS	C-N-CA	5.19	127.10	120.56
1	ig	27	VAL	N-CA-C	5.19	115.40	110.42
1	ii	21	ASN	N-CA-CB	-5.19	102.48	110.16
1	ik	168	PHE	CA-C-N	5.19	127.19	120.44
1	ik	168	PHE	C-N-CA	5.19	127.19	120.44
1	iq	62	HIS	CG-CD2-NE2	-5.19	102.01	107.20
1	iv	110	THR	N-CA-CB	5.19	118.77	110.46
1	iv	162	ARG	CA-C-O	-5.19	115.35	120.90
1	iB	9	GLN	CB-CG-CD	-5.19	103.78	112.60
1	iN	66	MET	N-CA-C	5.19	118.87	112.54
1	j0	64	ALA	N-CA-C	5.19	116.94	111.28
1	j0	82	ARG	CA-C-N	5.19	127.23	120.28
1	j0	82	ARG	C-N-CA	5.19	127.23	120.28
1	j1	18	ARG	CA-C-N	5.19	127.23	120.28
1	j1	18	ARG	C-N-CA	5.19	127.23	120.28
1	j2	26	VAL	CA-C-N	5.19	127.57	120.46
1	j2	26	VAL	C-N-CA	5.19	127.57	120.46
1	ji	161	PHE	O-C-N	-5.19	115.69	122.59
1	jl	27	VAL	N-CA-C	5.19	115.96	110.72
1	jE	58	THR	CA-CB-CG2	5.19	119.32	110.50
1	jM	146	SER	N-CA-C	5.19	118.59	108.21
1	jO	184	TRP	CA-CB-CG	5.19	123.46	113.60
1	1Y	87	HIS	O-C-N	-5.19	116.64	122.97
1	k0	120	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	k1	4	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	k1	87	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	k4	16	SER	O-C-N	-5.19	114.58	121.64
1	k4	25	LYS	N-CA-CB	5.19	117.75	110.12
1	kc	5	ASN	CA-C-N	5.19	129.09	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	5	ASN	C-N-CA	5.19	129.09	120.94
1	kj	77	ALA	N-CA-C	5.19	117.61	111.33
1	kH	40	PHE	O-C-N	-5.19	116.72	122.07
1	kI	80	TRP	N-CA-C	5.19	116.62	111.07
1	kN	37	ILE	N-CA-C	5.19	120.09	108.88
1	24	194	ALA	CA-C-N	5.19	128.57	120.68
1	24	194	ALA	C-N-CA	5.19	128.57	120.68
1	kY	175	GLU	CB-CG-CD	-5.19	103.78	112.60
1	lj	148	THR	N-CA-CB	5.19	120.56	112.25
1	lj	165	VAL	CA-C-O	5.19	126.35	120.85
1	ll	80	TRP	CB-CG-CD2	-5.19	119.53	126.80
1	lr	54	THR	N-CA-C	5.19	116.62	111.07
1	lz	7	GLN	CA-C-O	-5.19	115.48	121.19
1	lz	139	ASN	CA-CB-CG	5.19	117.79	112.60
1	lE	24	VAL	CA-C-O	5.19	126.35	120.95
1	lG	37	ILE	CA-C-N	5.19	124.69	119.19
1	lG	37	ILE	C-N-CA	5.19	124.69	119.19
1	2a	182	LYS	N-CA-C	5.19	117.02	111.36
1	lN	85	PRO	N-CA-CB	5.19	106.41	102.36
1	lO	134	ILE	O-C-N	-5.19	116.82	121.91
1	2q	182	LYS	N-CA-C	5.19	116.62	111.07
1	2r	132	ARG	CG-CD-NE	-5.19	100.58	112.00
1	2C	210	THR	O-C-N	-5.19	116.43	122.81
1	2H	185	MET	CB-CA-C	-5.19	102.51	110.81
1	2K	160	PRO	N-CA-CB	-5.19	98.96	103.32
1	2O	112	GLN	N-CA-C	5.19	117.02	111.36
1	2X	169	TYR	N-CA-C	5.19	116.94	111.28
1	30	154	ARG	O-C-N	-5.19	116.40	123.15
1	37	192	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	38	103	ASP	CA-C-N	5.19	127.57	120.46
1	38	103	ASP	C-N-CA	5.19	127.57	120.46
1	3d	207	PRO	N-CA-CB	-5.19	96.53	102.60
1	3e	5	ASN	CA-CB-CG	5.19	117.79	112.60
1	3g	78	ALA	CA-C-N	5.19	128.20	120.31
1	3g	78	ALA	C-N-CA	5.19	128.20	120.31
1	3s	66	MET	O-C-N	-5.19	116.72	122.07
1	3w	49	PRO	CA-C-N	5.19	127.19	120.44
1	3w	49	PRO	C-N-CA	5.19	127.19	120.44
1	3D	78	ALA	N-CA-C	5.19	116.94	111.28
1	3D	212	GLU	CA-C-N	5.19	128.20	120.31
1	3D	212	GLU	C-N-CA	5.19	128.20	120.31
1	3E	148	THR	CA-CB-CG2	5.19	119.33	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	55	MET	CA-C-O	-5.19	115.05	120.55
1	3I	128	GLU	CB-CA-C	-5.19	102.03	110.85
1	3L	209	ALA	N-CA-C	5.19	117.56	110.24
1	3M	190	LEU	CA-C-N	5.19	128.92	121.55
1	3M	190	LEU	C-N-CA	5.19	128.92	121.55
1	40	89	GLY	O-C-N	5.19	126.96	121.77
1	43	77	ALA	CA-C-N	5.19	127.66	120.29
1	43	77	ALA	C-N-CA	5.19	127.66	120.29
1	45	208	ALA	CA-C-O	5.19	125.76	119.38
1	4b	9	GLN	CA-C-O	5.19	126.09	120.12
1	4e	53	ASN	N-CA-C	-5.19	105.52	111.07
1	4N	218	CYS	N-CA-CB	5.19	119.26	110.49
1	52	5	ASN	CB-CA-C	5.19	119.50	110.68
1	58	200	THR	CA-CB-CG2	5.19	119.33	110.50
1	5e	210	THR	O-C-N	-5.19	116.32	122.65
1	5i	144	MET	CA-C-N	5.19	127.49	120.38
1	5i	144	MET	C-N-CA	5.19	127.49	120.38
1	5q	167	ARG	CA-C-N	5.19	131.45	121.54
1	5q	167	ARG	C-N-CA	5.19	131.45	121.54
1	5q	195	ASN	CB-CG-ND2	-5.19	108.61	116.40
1	5v	117	TRP	O-C-N	-5.19	115.38	122.33
1	5x	95	GLN	O-C-N	-5.19	115.33	122.23
1	5G	29	GLU	N-CA-C	5.19	116.94	111.28
1	5J	43	LEU	CA-C-O	5.19	125.77	119.49
1	5N	110	THR	CA-CB-OG1	5.19	117.39	109.60
1	5S	166	ASP	O-C-N	5.19	127.42	122.07
1	65	91	ILE	N-CA-CB	5.19	116.92	111.00
1	66	82	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	66	120	HIS	CB-CG-ND1	5.19	130.49	122.70
1	6d	155	GLN	CA-CB-CG	5.19	124.48	114.10
1	6k	173	ARG	NH1-CZ-NH2	-5.19	112.55	119.30
1	6k	218	CYS	CA-C-N	5.19	128.20	120.31
1	6k	218	CYS	C-N-CA	5.19	128.20	120.31
1	6r	91	ILE	O-C-N	5.19	128.71	123.00
1	6A	123	PRO	N-CA-C	5.19	119.35	111.15
1	6A	132	ARG	O-C-N	-5.19	116.62	122.12
1	6H	17	PRO	CA-C-N	5.19	127.24	120.28
1	6H	17	PRO	C-N-CA	5.19	127.24	120.28
1	6J	1	PRO	CA-C-N	5.19	130.22	123.06
1	6J	1	PRO	C-N-CA	5.19	130.22	123.06
1	70	103	ASP	CA-C-N	5.19	127.79	120.42
1	70	103	ASP	C-N-CA	5.19	127.79	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	75	183	ASN	CB-CA-C	-5.19	102.03	110.85
1	7a	181	VAL	CA-C-O	-5.19	115.35	120.85
1	7j	177	ALA	O-C-N	-5.19	116.42	122.81
1	7n	35	GLU	CA-CB-CG	5.19	124.48	114.10
1	7n	73	ILE	CA-C-O	5.19	126.67	121.17
1	7z	25	LYS	N-CA-CB	5.19	117.54	110.01
1	7z	224	PRO	N-CA-CB	5.19	108.70	103.25
1	7D	4	GLN	CA-C-N	5.19	129.92	121.98
1	7D	4	GLN	C-N-CA	5.19	129.92	121.98
1	7I	226	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	7O	179	GLN	N-CA-C	5.19	117.61	111.33
1	81	42	ALA	CA-C-N	5.19	127.24	120.28
1	81	42	ALA	C-N-CA	5.19	127.24	120.28
1	8e	65	ALA	N-CA-C	5.19	116.94	111.28
1	8s	142	VAL	CA-C-O	5.19	126.08	120.47
1	8B	29	GLU	N-CA-C	5.19	117.02	111.36
1	8E	55	MET	CG-SD-CE	-5.19	89.48	100.90
1	8K	134	ILE	N-CA-C	5.19	115.40	110.42
1	92	59	VAL	N-CA-C	5.19	116.10	109.30
1	96	221	VAL	CA-C-O	-5.19	116.26	121.45
1	99	160	PRO	CA-N-CD	-5.19	104.73	112.00
1	9a	202	LEU	O-C-N	-5.19	116.62	122.12
1	9e	174	ALA	CA-C-N	5.19	128.22	120.90
1	9e	174	ALA	C-N-CA	5.19	128.22	120.90
1	9g	83	LEU	CA-C-N	-5.19	117.14	122.85
1	9g	83	LEU	C-N-CA	-5.19	117.14	122.85
1	9n	116	GLY	CA-C-N	5.19	127.19	120.44
1	9n	116	GLY	C-N-CA	5.19	127.19	120.44
1	9t	114	GLN	CA-C-N	5.19	127.30	120.60
1	9t	114	GLN	C-N-CA	5.19	127.30	120.60
1	9D	69	LEU	CA-C-N	5.19	127.24	120.28
1	9D	69	LEU	C-N-CA	5.19	127.24	120.28
1	9G	152	ASP	N-CA-C	-5.19	106.91	114.12
1	9K	67	GLN	CB-CG-CD	-5.19	103.78	112.60
1	9L	152	ASP	CA-C-O	5.19	125.75	119.31
1	9M	211	LEU	N-CA-C	5.19	116.94	111.28
1	a3	171	THR	N-CA-C	5.19	117.84	111.82
1	a4	137	GLY	CA-C-O	-5.19	115.70	121.05
1	10	70	LYS	CA-CB-CG	5.19	124.48	114.10
1	10	120	HIS	CB-CG-CD2	-5.19	124.45	131.20
1	10	178	SER	N-CA-CB	5.19	117.53	109.48
1	ad	79	GLU	CA-C-O	5.19	125.92	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ag	57	ASN	CA-C-N	5.19	128.20	120.31
1	ag	57	ASN	C-N-CA	5.19	128.20	120.31
1	12	191	VAL	N-CA-C	5.19	115.85	110.82
1	aA	213	GLU	N-CA-C	5.19	116.62	111.07
1	b3	131	LYS	CA-C-N	5.19	127.19	120.44
1	b3	131	LYS	C-N-CA	5.19	127.19	120.44
1	b5	224	PRO	CA-C-O	-5.19	111.15	120.60
1	bd	139	ASN	N-CA-C	5.19	117.68	111.71
1	be	189	LEU	O-C-N	-5.19	116.23	122.15
1	bm	25	LYS	O-C-N	-5.19	115.47	122.43
1	bm	192	GLN	N-CA-C	5.19	117.68	111.71
1	bn	170	LYS	CA-C-O	5.19	126.05	120.55
1	bA	107	THR	N-CA-CB	5.19	117.84	110.16
1	bF	107	THR	O-C-N	-5.19	116.48	122.09
1	bO	193	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	bR	39	MET	N-CA-C	5.19	116.94	111.28
1	cg	24	VAL	N-CA-C	5.19	115.92	110.62
1	ci	163	ASP	O-C-N	-5.19	114.99	122.36
1	co	62	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	cw	129	ILE	N-CA-CB	5.19	116.62	110.55
1	cw	168	PHE	CA-CB-CG	5.19	118.99	113.80
1	cE	139	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	cK	189	LEU	CB-CA-C	-5.19	101.86	110.68
1	cM	55	MET	CA-C-N	5.19	127.24	120.28
1	cM	55	MET	C-N-CA	5.19	127.24	120.28
1	cM	178	SER	N-CA-C	5.19	117.03	110.33
1	cO	195	ASN	CB-CG-OD1	5.19	131.18	120.80
1	cQ	191	VAL	N-CA-CB	-5.19	104.48	110.55
1	cU	135	ILE	O-C-N	-5.19	116.84	121.87
1	cU	163	ASP	CA-C-O	5.19	126.05	120.55
1	cU	216	THR	CA-CB-CG2	5.19	119.32	110.50
1	d3	2	ILE	CB-CA-C	-5.19	104.10	111.21
1	d4	223	GLY	CA-C-O	-5.19	114.10	121.52
1	dc	81	ASP	CA-CB-CG	-5.19	107.41	112.60
1	de	177	ALA	N-CA-C	5.19	116.99	110.24
1	dz	20	LEU	CA-C-N	5.19	127.75	120.28
1	dz	20	LEU	C-N-CA	5.19	127.75	120.28
1	dR	180	GLU	CA-C-N	5.19	127.30	120.60
1	dR	180	GLU	C-N-CA	5.19	127.30	120.60
1	1n	26	VAL	CA-C-N	5.19	127.10	120.56
1	1n	26	VAL	C-N-CA	5.19	127.10	120.56
1	dU	34	PRO	CA-C-N	5.19	129.39	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dU	34	PRO	C-N-CA	5.19	129.39	120.72
1	dY	179	GLN	CA-C-N	5.19	127.19	120.44
1	dY	179	GLN	C-N-CA	5.19	127.19	120.44
1	dZ	194	ALA	CA-C-N	5.19	127.60	120.39
1	dZ	194	ALA	C-N-CA	5.19	127.60	120.39
1	e2	119	THR	CA-CB-CG2	-5.19	101.68	110.50
1	e8	63	GLN	CB-CA-C	-5.19	102.50	110.81
1	eh	179	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	ei	117	TRP	CE2-CD2-CE3	5.19	123.99	118.80
1	1q	143	ARG	N-CA-C	5.19	119.88	111.37
1	en	19	THR	CA-C-N	5.19	129.38	120.71
1	en	19	THR	C-N-CA	5.19	129.38	120.71
1	ep	12	HIS	O-C-N	-5.19	117.13	122.94
1	ey	182	LYS	N-CA-CB	5.19	117.53	110.01
1	eE	34	PRO	CA-C-N	5.19	130.22	121.14
1	eE	34	PRO	C-N-CA	5.19	130.22	121.14
1	eE	68	MET	O-C-N	-5.19	116.62	122.12
1	eJ	32	PHE	N-CA-CB	5.19	117.99	109.95
1	f0	180	GLU	N-CA-CB	5.19	118.22	110.22
1	f6	75	GLU	CB-CA-C	5.19	119.41	110.79
1	fe	31	ALA	N-CA-CB	5.19	119.26	110.49
1	fh	187	GLU	N-CA-CB	5.19	118.33	110.28
1	fi	163	ASP	CA-CB-CG	5.19	117.79	112.60
1	fr	100	ARG	NE-CZ-NH1	-5.19	116.31	121.50
1	fr	223	GLY	CA-C-N	5.19	125.18	119.89
1	fr	223	GLY	C-N-CA	5.19	125.18	119.89
1	ft	80	TRP	CB-CA-C	5.19	119.11	110.81
1	fx	151	LEU	N-CA-C	-5.19	106.90	113.18
1	fA	142	VAL	N-CA-C	5.19	115.63	110.23
1	fB	226	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	fP	36	VAL	CA-CB-CG2	5.19	119.22	110.40
1	fY	37	ILE	CA-C-N	5.19	124.69	119.19
1	fY	37	ILE	C-N-CA	5.19	124.69	119.19
1	g2	200	THR	CB-CA-C	-5.19	102.70	110.90
1	1B	27	VAL	N-CA-CB	5.19	117.21	110.57
1	1B	72	THR	CA-C-N	5.19	127.57	120.46
1	1B	72	THR	C-N-CA	5.19	127.57	120.46
1	h	204	ALA	O-C-N	-5.19	115.37	122.33
1	n	156	GLY	CA-C-O	5.19	127.49	122.46
1	q	201	ILE	CB-CA-C	-5.19	104.77	111.88
1	2	78	ALA	O-C-N	-5.19	116.62	122.12
1	z	127	GLY	O-C-N	-5.19	117.15	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	z	145	TYR	CB-CG-CD1	5.19	128.59	120.80
1	E	63	GLN	CA-C-N	5.19	127.24	120.28
1	E	63	GLN	C-N-CA	5.19	127.24	120.28
1	F	157	PRO	N-CA-CB	5.19	109.02	103.52
1	M	41	SER	CA-C-N	5.19	127.66	120.29
1	M	41	SER	C-N-CA	5.19	127.66	120.29
1	gz	47	ALA	N-CA-C	5.19	117.41	110.35
1	h0	131	LYS	CA-CB-CG	5.19	124.48	114.10
1	hX	191	VAL	CA-C-N	5.19	127.23	120.28
1	hX	191	VAL	C-N-CA	5.19	127.23	120.28
1	ie	87	HIS	O-C-N	-5.19	116.18	122.82
1	it	193	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	iW	73	ILE	CB-CA-C	-5.19	105.33	111.97
1	iW	127	GLY	CA-C-N	5.19	127.23	120.28
1	iW	127	GLY	C-N-CA	5.19	127.23	120.28
1	iX	12	HIS	CG-CD2-NE2	5.19	112.39	107.20
1	j9	63	GLN	CA-C-O	-5.19	114.00	119.97
1	jq	113	GLU	CA-C-N	5.19	127.66	120.29
1	jq	113	GLU	C-N-CA	5.19	127.66	120.29
1	jX	100	ARG	CG-CD-NE	-5.19	100.58	112.00
1	k2	108	THR	N-CA-CB	5.19	118.44	110.61
1	k7	41	SER	N-CA-CB	5.19	117.53	110.01
1	kd	16	SER	O-C-N	-5.19	116.58	121.35
1	kn	198	CYS	CA-C-N	5.19	127.49	120.38
1	kn	198	CYS	C-N-CA	5.19	127.49	120.38
1	kr	110	THR	O-C-N	-5.19	116.27	122.65
1	kt	85	PRO	CA-C-N	5.19	127.53	120.63
1	kt	85	PRO	C-N-CA	5.19	127.53	120.63
1	kz	51	ASP	CA-CB-CG	-5.19	107.41	112.60
1	kA	205	LEU	N-CA-C	5.19	117.68	111.71
1	kG	41	SER	CA-C-N	5.19	127.19	120.44
1	kG	41	SER	C-N-CA	5.19	127.19	120.44
1	l9	193	ASN	N-CA-CB	-5.19	102.97	110.70
1	li	183	ASN	N-CA-CB	5.19	117.75	110.12
1	lt	34	PRO	O-C-N	-5.19	115.63	122.64
1	lM	34	PRO	N-CA-CB	5.19	109.11	103.30
1	lN	73	ILE	CA-C-O	5.19	126.67	121.17
1	2p	6	LEU	CB-CA-C	5.19	120.32	109.68
1	2p	80	TRP	CA-C-N	5.19	127.19	120.44
1	2p	80	TRP	C-N-CA	5.19	127.19	120.44
1	2q	178	SER	N-CA-C	5.19	117.61	110.35
1	2t	143	ARG	NE-CZ-NH1	5.19	126.69	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2v	158	LYS	CA-C-N	5.19	128.46	121.20
1	2v	158	LYS	C-N-CA	5.19	128.46	121.20
1	2E	7	GLN	CA-C-O	5.19	125.49	119.32
1	2S	70	LYS	CA-C-N	5.19	128.20	120.31
1	2S	70	LYS	C-N-CA	5.19	128.20	120.31
1	32	35	GLU	CA-C-O	5.19	124.85	119.14
1	3d	51	ASP	CA-C-O	5.19	126.27	120.82
1	3l	209	ALA	N-CA-CB	-5.19	102.12	109.85
1	3C	173	ARG	O-C-N	-5.19	116.23	122.15
1	3J	229	ARG	N-CA-C	5.19	118.16	110.48
1	3L	115	ILE	N-CA-CB	-5.19	101.78	110.65
1	4h	163	ASP	CA-C-O	5.19	126.45	120.90
1	4j	87	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	4u	154	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	4x	13	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	4z	198	CYS	O-C-N	-5.19	116.23	122.15
1	4D	146	SER	O-C-N	-5.19	116.36	121.18
1	4N	167	ARG	CA-C-N	5.19	127.19	120.44
1	4N	167	ARG	C-N-CA	5.19	127.19	120.44
1	4O	167	ARG	CA-C-N	5.19	127.19	120.44
1	4O	167	ARG	C-N-CA	5.19	127.19	120.44
1	4R	202	LEU	CA-C-N	5.19	127.66	120.29
1	4R	202	LEU	C-N-CA	5.19	127.66	120.29
1	4T	28	GLU	CA-C-O	-5.19	114.48	120.24
1	53	97	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	57	68	MET	CG-SD-CE	-5.19	89.48	100.90
1	5k	127	GLY	CA-C-N	5.19	127.23	120.28
1	5k	127	GLY	C-N-CA	5.19	127.23	120.28
1	5u	112	GLN	N-CA-C	5.19	116.94	111.28
1	5A	134	ILE	CA-C-N	5.19	127.85	120.53
1	5A	134	ILE	C-N-CA	5.19	127.85	120.53
1	5G	73	ILE	CA-C-N	5.19	127.23	120.28
1	5G	73	ILE	C-N-CA	5.19	127.23	120.28
1	5G	132	ARG	CA-C-N	5.19	127.23	120.28
1	5G	132	ARG	C-N-CA	5.19	127.23	120.28
1	5Q	29	GLU	N-CA-CB	-5.19	103.13	110.81
1	5R	170	LYS	N-CA-C	5.19	116.94	111.28
1	6a	83	LEU	O-C-N	5.19	127.69	122.09
1	6r	181	VAL	N-CA-CB	5.19	117.60	110.54
1	6B	188	THR	CA-CB-OG1	-5.19	101.82	109.60
1	6S	101	GLY	O-C-N	-5.19	117.16	122.19
1	6W	135	ILE	O-C-N	-5.19	116.84	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	71	10	MET	CA-C-N	5.19	130.94	122.69
1	71	10	MET	C-N-CA	5.19	130.94	122.69
1	72	53	ASN	CA-C-N	5.19	127.55	120.54
1	72	53	ASN	C-N-CA	5.19	127.55	120.54
1	78	172	LEU	CA-C-O	5.19	125.76	119.38
1	7a	132	ARG	CD-NE-CZ	5.19	131.66	124.40
1	7c	110	THR	OG1-CB-CG2	5.19	119.68	109.30
1	7e	86	VAL	CA-C-O	5.19	126.77	120.85
1	7y	10	MET	CA-C-N	5.19	129.06	121.80
1	7y	10	MET	C-N-CA	5.19	129.06	121.80
1	7I	197	ASP	N-CA-C	5.19	116.94	111.28
1	7Q	121	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	86	121	ASN	O-C-N	-5.19	115.37	121.23
1	8u	189	LEU	N-CA-CB	5.19	117.84	110.16
1	8B	13	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	8W	85	PRO	O-C-N	-5.19	115.63	122.64
1	94	143	ARG	N-CA-C	5.19	117.68	111.71
1	9c	226	HIS	CB-CA-C	-5.19	102.34	110.85
1	9J	25	LYS	N-CA-C	5.19	116.94	111.28
1	9J	76	GLU	N-CA-C	5.19	117.84	111.82
1	a8	113	GLU	O-C-N	-5.19	116.23	122.15
1	ag	87	HIS	CB-CA-C	5.19	118.82	109.64
1	aI	87	HIS	N-CA-C	5.19	118.75	111.74
1	aU	114	GLN	CA-C-N	5.19	127.57	120.46
1	aU	114	GLN	C-N-CA	5.19	127.57	120.46
1	bc	12	HIS	N-CA-C	5.19	117.94	109.59
1	bA	66	MET	O-C-N	-5.19	116.23	122.15
1	1a	18	ARG	O-C-N	-5.19	116.62	122.12
1	bZ	69	LEU	O-C-N	-5.19	116.69	122.09
1	c7	22	ALA	N-CA-CB	-5.19	102.49	110.12
1	c9	142	VAL	CA-C-N	5.19	127.23	120.28
1	c9	142	VAL	C-N-CA	5.19	127.23	120.28
1	ca	64	ALA	N-CA-C	5.19	116.62	111.07
1	cb	198	CYS	CA-C-N	5.19	127.19	120.44
1	cb	198	CYS	C-N-CA	5.19	127.19	120.44
1	cl	216	THR	N-CA-C	5.19	118.92	112.59
1	1e	23	TRP	CA-C-N	5.19	127.57	120.46
1	1e	23	TRP	C-N-CA	5.19	127.57	120.46
1	cq	192	GLN	CA-C-O	5.19	125.76	119.38
1	1f	212	GLU	N-CA-C	5.19	116.94	111.28
1	d6	100	ARG	CA-C-N	5.19	126.63	120.14
1	d6	100	ARG	C-N-CA	5.19	126.63	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	195	ASN	O-C-N	-5.19	116.10	121.60
1	do	126	VAL	CA-C-O	5.19	126.35	120.95
1	dr	171	THR	CA-CB-OG1	5.19	117.38	109.60
1	dt	187	GLU	N-CA-C	5.19	117.02	111.36
1	dD	187	GLU	O-C-N	-5.19	115.89	122.17
1	eb	29	GLU	CB-CG-CD	5.19	121.42	112.60
1	ed	18	ARG	N-CA-C	5.19	116.62	111.07
1	er	168	PHE	O-C-N	-5.19	116.53	122.08
1	1r	53	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	1s	94	GLY	CA-C-N	5.19	128.24	120.87
1	1s	94	GLY	C-N-CA	5.19	128.24	120.87
1	eK	63	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	eK	133	TRP	N-CA-CB	-5.19	102.24	110.28
1	eK	163	ASP	CA-C-N	5.19	127.19	120.44
1	eK	163	ASP	C-N-CA	5.19	127.19	120.44
1	eL	84	HIS	N-CA-C	5.19	118.04	110.10
1	eM	119	THR	CA-CB-CG2	-5.19	101.68	110.50
1	eU	40	PHE	CA-CB-CG	5.19	118.99	113.80
1	f4	227	LYS	CA-C-N	5.19	131.45	121.54
1	f4	227	LYS	C-N-CA	5.19	131.45	121.54
1	fe	94	GLY	O-C-N	-5.19	116.74	122.55
1	fi	82	ARG	NH1-CZ-NH2	-5.19	112.55	119.30
1	fs	135	ILE	O-C-N	-5.19	116.84	121.87
1	fz	12	HIS	CB-CG-CD2	-5.19	124.45	131.20
1	fB	45	GLU	CA-C-O	-5.19	115.00	120.92
1	fC	29	GLU	O-C-N	-5.19	116.73	122.07
1	fC	209	ALA	O-C-N	-5.19	116.11	123.01
1	fD	18	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	fH	153	ILE	CA-CB-CG1	5.19	119.22	110.40
1	fT	87	HIS	CA-CB-CG	-5.19	108.61	113.80
1	fX	52	LEU	O-C-N	-5.19	116.62	122.12
1	0	133	TRP	CB-CG-CD1	5.19	134.68	126.90
1	d	201	ILE	CA-C-O	5.19	126.35	120.95
1	j	196	PRO	N-CA-C	5.19	123.16	112.47
1	l	199	LYS	O-C-N	-5.19	116.23	122.15
1	s	161	PHE	CA-C-N	5.19	127.49	120.38
1	s	161	PHE	C-N-CA	5.19	127.49	120.38
1	A	166	ASP	N-CA-CB	-5.19	102.21	109.94
1	B	62	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	C	66	MET	N-CA-C	5.19	117.84	111.82
1	3	170	LYS	CA-C-N	5.19	127.19	120.44
1	3	170	LYS	C-N-CA	5.19	127.19	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	132	ARG	NH1-CZ-NH2	5.19	126.05	119.30
1	P	86	VAL	CA-C-N	5.19	131.14	122.73
1	P	86	VAL	C-N-CA	5.19	131.14	122.73
1	ga	190	LEU	N-CA-CB	-5.19	102.50	110.12
1	1C	22	ALA	N-CA-C	5.19	117.67	111.71
1	gk	37	ILE	CA-C-N	5.19	124.69	119.19
1	gk	37	ILE	C-N-CA	5.19	124.69	119.19
1	gl	158	LYS	CA-C-N	5.19	127.70	120.65
1	gl	158	LYS	C-N-CA	5.19	127.70	120.65
1	gr	190	LEU	O-C-N	-5.19	116.62	122.12
1	gC	180	GLU	CB-CG-CD	-5.19	103.78	112.60
1	gE	175	GLU	N-CA-C	5.19	117.75	110.23
1	gF	54	THR	CA-C-N	5.19	127.18	120.44
1	gF	54	THR	C-N-CA	5.19	127.18	120.44
1	gL	102	SER	CA-C-O	5.19	125.91	119.79
1	gP	45	GLU	N-CA-C	5.19	121.85	110.80
1	ha	21	ASN	CA-C-N	5.19	127.23	120.28
1	ha	21	ASN	C-N-CA	5.19	127.23	120.28
1	hg	174	ALA	CA-C-O	5.19	125.49	119.32
1	hj	30	LYS	CA-C-N	5.19	127.49	120.38
1	hj	30	LYS	C-N-CA	5.19	127.49	120.38
1	hm	228	ALA	CA-C-O	-5.19	115.05	120.55
1	hp	66	MET	O-C-N	-5.19	116.24	122.15
1	hy	165	VAL	N-CA-C	5.19	118.33	111.17
1	hF	92	GLU	O-C-N	-5.19	116.54	121.57
1	hN	206	GLY	CA-C-O	-5.19	114.10	121.52
1	hV	207	PRO	N-CA-C	-5.19	107.86	114.35
1	i3	166	ASP	CA-CB-CG	5.19	117.79	112.60
1	iR	123	PRO	N-CA-C	5.19	119.46	111.21
1	iU	107	THR	N-CA-C	5.19	116.74	111.14
1	iV	161	PHE	O-C-N	-5.19	116.73	122.07
1	j6	70	LYS	O-C-N	-5.19	116.24	122.15
1	j6	120	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	je	133	TRP	CB-CG-CD1	5.19	134.68	126.90
1	jk	11	VAL	CA-C-N	5.19	129.50	122.19
1	jk	11	VAL	C-N-CA	5.19	129.50	122.19
1	jq	24	VAL	CA-C-N	5.19	127.23	120.28
1	jq	24	VAL	C-N-CA	5.19	127.23	120.28
1	jJ	42	ALA	O-C-N	5.19	128.06	122.15
1	jR	97	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	jR	136	LEU	O-C-N	-5.19	116.24	122.15
1	jW	60	GLY	CA-C-N	5.19	128.38	121.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jW	60	GLY	C-N-CA	5.19	128.38	121.01
1	k2	175	GLU	N-CA-C	5.19	117.75	110.23
1	20	150	ILE	CA-C-O	-5.19	115.65	121.05
1	kk	67	GLN	N-CA-CB	5.19	117.84	110.16
1	kw	36	VAL	CA-C-N	5.19	125.41	120.43
1	kw	36	VAL	C-N-CA	5.19	125.41	120.43
1	kA	14	ALA	N-CA-C	5.19	117.41	110.35
1	kD	40	PHE	N-CA-C	-5.19	105.62	111.28
1	kI	207	PRO	CA-C-N	5.19	127.23	120.28
1	kI	207	PRO	C-N-CA	5.19	127.23	120.28
1	kM	162	ARG	O-C-N	-5.19	116.24	122.15
1	kS	50	GLN	CA-C-N	5.19	127.23	120.28
1	kS	50	GLN	C-N-CA	5.19	127.23	120.28
1	kU	218	CYS	N-CA-CB	5.19	119.26	110.49
1	kZ	195	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	l1	183	ASN	CA-C-N	5.19	127.23	120.28
1	l1	183	ASN	C-N-CA	5.19	127.23	120.28
1	l3	29	GLU	N-CA-C	5.19	119.88	113.50
1	lh	55	MET	N-CA-C	5.19	116.74	111.14
1	27	64	ALA	N-CA-C	-5.19	105.69	112.23
1	lm	159	GLU	CA-C-N	5.19	125.19	119.90
1	lm	159	GLU	C-N-CA	5.19	125.19	119.90
1	ln	33	SER	CA-C-O	-5.19	115.70	120.94
1	ln	43	LEU	O-C-N	-5.19	116.43	121.93
1	lo	81	ASP	O-C-N	-5.19	116.62	122.12
1	lp	122	PRO	CA-C-N	5.19	125.64	120.14
1	lp	122	PRO	C-N-CA	5.19	125.64	120.14
1	lq	100	ARG	CA-C-O	-5.19	115.30	121.89
1	28	18	ARG	CA-C-N	5.19	127.23	120.28
1	28	18	ARG	C-N-CA	5.19	127.23	120.28
1	ls	133	TRP	N-CA-CB	5.19	117.84	110.16
1	lt	164	TYR	N-CA-C	5.19	116.62	111.07
1	lx	226	HIS	CA-CB-CG	5.19	118.99	113.80
1	lB	56	LEU	N-CA-C	5.19	117.61	111.33
1	lF	1	PRO	CA-N-CD	-5.19	104.74	112.00
1	lI	102	SER	CA-C-N	5.19	127.18	120.44
1	lI	102	SER	C-N-CA	5.19	127.18	120.44
1	lM	25	LYS	CA-C-N	5.19	127.10	120.56
1	lM	25	LYS	C-N-CA	5.19	127.10	120.56
1	lQ	141	ILE	CA-C-N	5.19	127.29	120.60
1	lQ	141	ILE	C-N-CA	5.19	127.29	120.60
1	2c	159	GLU	CB-CA-C	5.19	116.42	109.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2l	49	PRO	CB-CA-C	5.19	120.12	111.56
1	2o	34	PRO	CA-C-N	5.19	127.49	120.38
1	2o	34	PRO	C-N-CA	5.19	127.49	120.38
1	2w	53	ASN	N-CA-C	5.19	116.93	111.28
1	2C	164	TYR	CA-C-N	5.19	127.57	120.46
1	2C	164	TYR	C-N-CA	5.19	127.57	120.46
1	2M	35	GLU	CB-CG-CD	-5.19	103.78	112.60
1	2Y	87	HIS	O-C-N	-5.19	117.13	123.10
1	32	86	VAL	CA-C-O	5.19	123.89	118.96
1	39	179	GLN	CA-C-N	5.19	127.75	120.28
1	39	179	GLN	C-N-CA	5.19	127.75	120.28
1	3b	187	GLU	CB-CG-CD	5.19	121.42	112.60
1	3e	154	ARG	N-CA-C	5.19	118.18	110.14
1	3e	227	LYS	CA-C-N	5.19	128.24	120.87
1	3e	227	LYS	C-N-CA	5.19	128.24	120.87
1	3m	16	SER	CA-CB-OG	5.19	121.48	111.10
1	3t	75	GLU	N-CA-C	5.19	116.62	111.07
1	3C	182	LYS	CA-C-O	5.19	126.05	120.55
1	3P	72	THR	N-CA-CB	5.19	117.84	110.16
1	3V	191	VAL	N-CA-CB	5.19	116.51	110.65
1	3W	226	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	3Z	42	ALA	N-CA-C	5.19	116.62	111.07
1	48	215	MET	CA-C-N	5.19	127.18	120.44
1	48	215	MET	C-N-CA	5.19	127.18	120.44
1	4m	16	SER	CA-C-N	5.19	124.85	119.56
1	4m	16	SER	C-N-CA	5.19	124.85	119.56
1	4q	84	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	4r	229	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
1	4x	159	GLU	O-C-N	-5.19	115.21	121.12
1	4E	96	MET	CG-SD-CE	-5.19	89.48	100.90
1	4G	47	ALA	O-C-N	-5.19	117.10	122.96
1	4R	67	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	4Y	119	THR	CA-C-O	5.19	125.42	119.35
1	4Z	129	ILE	O-C-N	5.19	126.99	121.91
1	53	184	TRP	O-C-N	-5.19	116.73	122.07
1	55	129	ILE	O-C-N	-5.19	116.51	121.90
1	56	29	GLU	N-CA-C	5.19	120.47	114.04
1	58	107	THR	CA-C-N	5.19	130.92	122.67
1	58	107	THR	C-N-CA	5.19	130.92	122.67
1	59	162	ARG	CA-C-N	5.19	127.23	120.28
1	59	162	ARG	C-N-CA	5.19	127.23	120.28
1	5d	195	ASN	N-CA-CB	-5.19	100.19	109.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	143	ARG	CG-CD-NE	-5.19	100.59	112.00
1	5j	154	ARG	N-CA-C	5.19	121.85	110.80
1	5w	230	VAL	N-CA-C	-5.19	100.85	108.11
1	5C	192	GLN	CB-CG-CD	5.19	121.42	112.60
1	5F	225	GLY	CA-C-O	-5.19	116.00	122.59
1	5K	84	HIS	CA-C-O	-5.19	113.80	119.61
1	5L	53	ASN	CA-C-N	5.19	127.75	120.28
1	5L	53	ASN	C-N-CA	5.19	127.75	120.28
1	5M	70	LYS	CA-C-O	-5.19	115.36	121.07
1	5O	220	GLY	CA-C-N	5.19	131.31	121.97
1	5O	220	GLY	C-N-CA	5.19	131.31	121.97
1	5U	179	GLN	N-CA-C	5.19	118.77	112.23
1	5X	50	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	5Z	180	GLU	O-C-N	-5.19	116.62	122.12
1	67	16	SER	O-C-N	-5.19	115.62	121.43
1	68	62	HIS	O-C-N	-5.19	116.12	122.55
1	6i	3	VAL	N-CA-C	5.19	116.17	108.23
1	6k	107	THR	CA-C-O	5.19	125.34	119.27
1	6n	162	ARG	O-C-N	-5.19	116.62	122.12
1	6u	73	ILE	CA-C-O	-5.19	115.35	120.85
1	6v	212	GLU	CA-C-N	5.19	127.19	120.44
1	6v	212	GLU	C-N-CA	5.19	127.19	120.44
1	6z	36	VAL	N-CA-C	5.19	115.41	110.53
1	6B	79	GLU	N-CA-C	5.19	117.01	111.36
1	6B	136	LEU	CB-CA-C	5.19	119.40	110.79
1	78	171	THR	N-CA-CB	5.19	117.53	110.01
1	7a	197	ASP	CB-CA-C	-5.19	101.86	110.68
1	7b	88	ALA	O-C-N	-5.19	116.74	122.86
1	7g	195	ASN	O-C-N	-5.19	115.35	121.32
1	7u	83	LEU	O-C-N	5.19	127.69	122.09
1	7x	204	ALA	CB-CA-C	-5.19	102.03	110.85
1	7A	155	GLN	N-CA-C	5.19	117.81	110.50
1	7K	201	ILE	N-CA-C	-5.19	105.48	110.72
1	7L	173	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
1	80	50	GLN	N-CA-C	5.19	117.01	111.36
1	82	77	ALA	N-CA-C	5.19	117.67	111.71
1	87	136	LEU	CA-C-N	5.19	125.70	119.94
1	87	136	LEU	C-N-CA	5.19	125.70	119.94
1	8m	185	MET	CB-CA-C	5.19	119.40	110.79
1	8p	156	GLY	CA-C-O	-5.19	114.10	121.52
1	8q	15	ILE	O-C-N	-5.19	117.20	122.75
1	8t	16	SER	O-C-N	-5.19	115.82	121.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8B	20	LEU	CA-C-N	5.19	127.18	120.44
1	8B	20	LEU	C-N-CA	5.19	127.18	120.44
1	8D	150	ILE	CA-C-N	5.19	127.23	120.28
1	8D	150	ILE	C-N-CA	5.19	127.23	120.28
1	8E	100	ARG	CB-CA-C	-5.19	101.23	111.60
1	8S	166	ASP	N-CA-C	5.19	116.74	111.14
1	8T	58	THR	N-CA-CB	5.19	117.84	110.06
1	8W	2	ILE	CA-CB-CG2	-5.19	101.68	110.50
1	96	219	GLN	N-CA-CB	-5.19	101.96	110.21
1	9h	149	SER	O-C-N	-5.19	115.77	122.20
1	9r	208	ALA	CA-C-N	5.19	128.08	120.71
1	9r	208	ALA	C-N-CA	5.19	128.08	120.71
1	9B	165	VAL	O-C-N	-5.19	116.84	121.87
1	9E	70	LYS	N-CA-C	5.19	116.62	111.07
1	9G	192	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	9I	51	ASP	CA-C-N	5.19	127.49	120.38
1	9I	51	ASP	C-N-CA	5.19	127.49	120.38
1	9J	72	THR	N-CA-CB	5.19	117.74	110.12
1	9J	114	GLN	CA-C-O	5.19	126.45	120.90
1	9K	146	SER	CA-C-O	-5.19	113.05	120.16
1	9P	17	PRO	CA-C-N	5.19	127.23	120.28
1	9P	17	PRO	C-N-CA	5.19	127.23	120.28
1	9P	183	ASN	CA-C-N	5.19	127.18	120.44
1	9P	183	ASN	C-N-CA	5.19	127.18	120.44
1	ak	32	PHE	N-CA-CB	5.19	119.25	110.49
1	ak	98	GLU	CB-CA-C	5.19	118.07	109.56
1	am	38	PRO	N-CA-C	-5.19	106.77	113.57
1	am	96	MET	O-C-N	-5.19	117.14	123.16
1	az	37	ILE	CA-C-N	5.19	126.32	119.84
1	az	37	ILE	C-N-CA	5.19	126.32	119.84
1	az	92	GLU	O-C-N	-5.19	115.35	121.32
1	aD	112	GLN	CA-C-N	5.19	127.18	120.44
1	aD	112	GLN	C-N-CA	5.19	127.18	120.44
1	13	178	SER	O-C-N	-5.19	116.61	122.68
1	aH	39	MET	N-CA-CB	5.19	117.84	110.06
1	aM	93	PRO	O-C-N	5.19	129.48	122.89
1	14	2	ILE	CA-CB-CG2	-5.19	101.68	110.50
1	aR	161	PHE	CA-C-N	5.19	127.49	120.38
1	aR	161	PHE	C-N-CA	5.19	127.49	120.38
1	aZ	37	ILE	CA-C-N	5.19	124.50	118.85
1	aZ	37	ILE	C-N-CA	5.19	124.50	118.85
1	b0	68	MET	N-CA-C	5.19	116.93	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	96	MET	N-CA-CB	5.19	118.63	110.23
1	be	101	GLY	CA-C-N	5.19	127.66	120.29
1	be	101	GLY	C-N-CA	5.19	127.66	120.29
1	by	12	HIS	N-CA-C	5.19	117.74	109.96
1	bF	200	THR	O-C-N	-5.19	116.15	122.22
1	bG	144	MET	N-CA-C	5.19	116.62	111.07
1	bJ	74	ASN	N-CA-CB	-5.19	102.48	110.16
1	bK	200	THR	N-CA-C	5.19	116.94	111.28
1	bL	191	VAL	CA-C-O	5.19	125.23	119.42
1	bN	102	SER	CA-C-O	-5.19	114.00	119.97
1	c1	114	GLN	CA-C-N	5.19	127.57	120.46
1	c1	114	GLN	C-N-CA	5.19	127.57	120.46
1	c1	139	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	c1	170	LYS	CA-C-N	5.19	127.75	120.28
1	c1	170	LYS	C-N-CA	5.19	127.75	120.28
1	c9	106	GLY	CA-C-N	5.19	127.23	120.28
1	c9	106	GLY	C-N-CA	5.19	127.23	120.28
1	cb	74	ASN	CA-C-N	5.19	127.50	120.44
1	cb	74	ASN	C-N-CA	5.19	127.50	120.44
1	cl	74	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	ct	129	ILE	CB-CA-C	-5.19	105.14	112.14
1	cu	16	SER	N-CA-CB	5.19	118.00	110.32
1	cw	103	ASP	N-CA-C	5.19	117.01	111.36
1	cy	68	MET	CA-C-N	5.19	127.18	120.44
1	cy	68	MET	C-N-CA	5.19	127.18	120.44
1	cy	143	ARG	CA-C-O	-5.19	114.92	120.42
1	cB	149	SER	N-CA-C	-5.19	99.81	108.32
1	cD	82	ARG	CD-NE-CZ	-5.19	117.14	124.40
1	cH	165	VAL	O-C-N	-5.19	116.84	121.87
1	1g	196	PRO	N-CA-CB	5.19	108.49	103.51
1	d0	197	ASP	N-CA-CB	-5.19	102.24	110.28
1	1i	148	THR	N-CA-C	5.19	117.41	110.35
1	d5	103	ASP	N-CA-CB	-5.19	102.55	110.33
1	d5	128	GLU	CA-CB-CG	5.19	124.47	114.10
1	d9	130	TYR	CB-CA-C	5.19	119.02	110.88
1	de	100	ARG	NH1-CZ-NH2	5.19	126.04	119.30
1	dq	8	GLY	O-C-N	-5.19	115.92	122.82
1	dC	79	GLU	CB-CG-CD	-5.19	103.78	112.60
1	dC	107	THR	CA-CB-CG2	-5.19	101.68	110.50
1	dD	188	THR	CA-C-N	5.19	127.54	120.54
1	dD	188	THR	C-N-CA	5.19	127.54	120.54
1	dJ	45	GLU	O-C-N	-5.19	116.62	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dK	4	GLN	CA-C-N	5.19	131.45	121.54
1	dK	4	GLN	C-N-CA	5.19	131.45	121.54
1	dL	141	ILE	N-CA-C	5.19	116.53	110.62
1	dM	12	HIS	ND1-CE1-NE2	5.19	113.59	108.40
1	dQ	18	ARG	CA-C-O	5.19	126.05	120.55
1	dQ	228	ALA	CA-C-O	5.19	125.63	119.56
1	dX	106	GLY	CA-C-O	5.19	124.88	119.07
1	eJ	162	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
1	eJ	196	PRO	N-CD-CG	5.19	110.98	103.20
1	eK	187	GLU	N-CA-C	5.19	117.84	111.82
1	eP	104	ILE	N-CA-C	5.19	115.91	110.62
1	eR	106	GLY	CA-C-N	5.19	129.37	120.71
1	eR	106	GLY	C-N-CA	5.19	129.37	120.71
1	eS	208	ALA	N-CA-CB	-5.19	102.80	110.53
1	eX	67	GLN	CA-C-N	5.19	127.75	120.28
1	eX	67	GLN	C-N-CA	5.19	127.75	120.28
1	f0	29	GLU	CA-C-O	5.19	125.92	120.42
1	f0	226	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	f8	96	MET	CA-C-N	5.19	128.08	120.71
1	f8	96	MET	C-N-CA	5.19	128.08	120.71
1	f9	173	ARG	CA-C-O	-5.19	115.05	120.55
1	1w	80	TRP	O-C-N	-5.19	116.73	122.07
1	fl	72	THR	CB-CA-C	-5.19	102.18	110.79
1	1x	188	THR	CA-C-O	5.19	125.30	119.18
1	fu	84	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
1	fB	23	TRP	CB-CG-CD1	-5.19	119.12	126.90
1	fJ	229	ARG	NE-CZ-NH2	5.19	123.87	119.20
1	fL	132	ARG	NH1-CZ-NH2	5.19	126.05	119.30
1	1z	129	ILE	O-C-N	-5.19	116.84	121.87
1	fX	62	HIS	O-C-N	-5.19	116.64	122.86
1	m	61	GLY	CA-C-N	5.19	129.78	122.46
1	m	61	GLY	C-N-CA	5.19	129.78	122.46
1	q	149	SER	N-CA-C	5.19	116.62	109.15
1	2	117	TRP	CD2-CE3-CZ3	5.19	125.34	118.60
1	w	111	LEU	O-C-N	5.19	127.62	122.12
1	w	186	THR	N-CA-CB	5.19	117.71	109.82
1	A	42	ALA	CA-C-N	5.19	127.23	120.28
1	A	42	ALA	C-N-CA	5.19	127.23	120.28
1	J	45	GLU	N-CA-C	5.19	118.08	110.30
1	4	209	ALA	CB-CA-C	-5.19	101.51	111.78
1	Q	26	VAL	O-C-N	-5.19	116.84	121.87
1	8	73	ILE	CA-C-O	-5.19	115.56	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gm	1	PRO	CA-C-N	-5.19	116.39	122.93
1	gm	1	PRO	C-N-CA	-5.19	116.39	122.93
1	go	120	HIS	CA-CB-CG	5.19	118.99	113.80
1	gy	69	LEU	CA-C-N	5.19	127.23	120.28
1	gy	69	LEU	C-N-CA	5.19	127.23	120.28
1	gC	177	ALA	O-C-N	-5.19	116.18	122.82
1	gZ	135	ILE	CA-C-O	5.19	126.34	120.95
1	hm	20	LEU	CA-C-N	5.19	127.23	120.28
1	hm	20	LEU	C-N-CA	5.19	127.23	120.28
1	1L	138	LEU	N-CA-CB	5.19	117.84	110.06
1	1L	213	GLU	CB-CG-CD	5.19	121.42	112.60
1	i0	115	ILE	N-CA-C	5.19	115.91	110.62
1	1P	92	GLU	CB-CA-C	5.19	117.71	109.52
1	iD	128	GLU	CA-C-O	-5.19	115.03	120.63
1	j0	43	LEU	N-CA-C	-5.19	105.63	111.28
1	1U	166	ASP	N-CA-CB	-5.19	102.23	110.22
1	jd	97	ARG	N-CA-C	5.19	117.40	110.35
1	jS	74	ASN	OD1-CG-ND2	-5.19	117.41	122.60
1	kb	44	SER	N-CA-CB	5.19	119.54	110.98
1	kj	180	GLU	CA-C-N	5.19	127.78	120.42
1	kj	180	GLU	C-N-CA	5.19	127.78	120.42
1	kr	47	ALA	N-CA-C	5.19	118.67	109.96
1	kA	72	THR	O-C-N	-5.19	116.73	122.07
1	kJ	111	LEU	O-C-N	-5.19	116.62	122.12
1	kX	7	GLN	CB-CA-C	-5.19	102.62	111.02
1	kZ	191	VAL	CA-C-O	-5.19	115.35	120.85
1	26	207	PRO	N-CA-C	-5.19	109.29	114.68
1	lq	195	ASN	CA-C-N	5.19	126.32	119.84
1	lq	195	ASN	C-N-CA	5.19	126.32	119.84
1	lw	229	ARG	CA-C-N	5.19	130.99	122.64
1	lw	229	ARG	C-N-CA	5.19	130.99	122.64
1	lE	98	GLU	N-CA-CB	5.19	119.35	109.44
1	lF	208	ALA	N-CA-C	5.19	118.91	112.58
1	lL	176	GLN	OE1-CD-NE2	-5.19	117.41	122.60
1	lO	16	SER	CA-C-N	5.19	126.32	119.84
1	lO	16	SER	C-N-CA	5.19	126.32	119.84
1	2t	11	VAL	CA-C-N	5.19	128.47	121.05
1	2t	11	VAL	C-N-CA	5.19	128.47	121.05
1	2Q	79	GLU	CG-CD-OE2	5.19	130.33	118.40
1	2W	30	LYS	O-C-N	-5.19	115.63	122.42
1	3e	26	VAL	N-CA-CB	5.19	116.62	110.55
1	3h	96	MET	CA-C-N	5.19	131.44	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3h	96	MET	C-N-CA	5.19	131.44	121.54
1	3r	38	PRO	O-C-N	5.19	129.27	122.27
1	3H	74	ASN	CA-C-N	5.19	127.18	120.44
1	3H	74	ASN	C-N-CA	5.19	127.18	120.44
1	3Z	29	GLU	N-CA-C	5.19	118.07	111.69
1	49	27	VAL	CA-CB-CG1	5.19	119.22	110.40
1	4a	58	THR	CA-CB-OG1	5.19	117.38	109.60
1	4M	59	VAL	N-CA-CB	5.19	116.45	110.49
1	5c	110	THR	CA-C-N	5.19	127.54	120.54
1	5c	110	THR	C-N-CA	5.19	127.54	120.54
1	5l	84	HIS	CB-CA-C	5.19	120.39	110.17
1	5r	64	ALA	N-CA-C	5.19	117.61	111.33
1	5F	209	ALA	N-CA-C	5.19	117.83	110.10
1	5X	110	THR	CA-CB-OG1	5.19	117.38	109.60
1	60	92	GLU	O-C-N	-5.19	115.83	121.53
1	6q	158	LYS	CA-C-N	5.19	127.70	120.65
1	6q	158	LYS	C-N-CA	5.19	127.70	120.65
1	6w	86	VAL	CA-C-N	5.19	129.72	122.36
1	6w	86	VAL	C-N-CA	5.19	129.72	122.36
1	6L	11	VAL	CB-CA-C	5.19	118.35	110.62
1	6L	98	GLU	N-CA-C	5.19	118.83	109.44
1	6R	121	ASN	N-CA-C	-5.19	97.28	107.91
1	6S	49	PRO	O-C-N	5.19	128.91	122.22
1	7g	47	ALA	O-C-N	-5.19	116.89	123.01
1	7l	202	LEU	CA-C-N	5.19	127.23	120.28
1	7l	202	LEU	C-N-CA	5.19	127.23	120.28
1	7o	76	GLU	CA-C-N	5.19	127.18	120.44
1	7o	76	GLU	C-N-CA	5.19	127.18	120.44
1	7s	143	ARG	NH1-CZ-NH2	-5.19	112.56	119.30
1	7u	19	THR	CA-CB-CG2	5.19	119.32	110.50
1	7M	189	LEU	CD1-CG-CD2	-5.19	99.39	110.80
1	88	136	LEU	CB-CA-C	-5.19	102.51	110.81
1	8r	176	GLN	CA-C-N	5.19	129.65	121.56
1	8r	176	GLN	C-N-CA	5.19	129.65	121.56
1	8Q	130	TYR	CB-CG-CD1	5.19	128.58	120.80
1	91	24	VAL	CB-CA-C	5.19	118.81	112.02
1	93	3	VAL	O-C-N	-5.19	117.19	122.95
1	9v	186	THR	CA-C-O	5.19	125.93	119.97
1	9y	7	GLN	N-CA-CB	-5.19	102.35	109.97
1	9z	99	PRO	CA-C-O	5.19	126.78	121.23
1	9z	171	THR	N-CA-CB	5.19	117.53	110.01
1	9J	18	ARG	NE-CZ-NH2	-5.19	114.53	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9T	162	ARG	CA-C-N	5.19	127.23	120.28
1	9T	162	ARG	C-N-CA	5.19	127.23	120.28
1	a3	210	THR	CA-CB-OG1	5.19	117.38	109.60
1	ac	29	GLU	CB-CG-CD	-5.19	103.78	112.60
1	ah	130	TYR	CB-CG-CD1	5.19	128.58	120.80
1	as	210	THR	O-C-N	-5.19	116.68	122.75
1	aX	187	GLU	N-CA-CB	5.19	117.74	110.12
1	ba	224	PRO	CA-C-N	5.19	130.71	121.48
1	ba	224	PRO	C-N-CA	5.19	130.71	121.48
1	bc	196	PRO	N-CD-CG	5.19	110.98	103.20
1	bz	160	PRO	CA-C-N	5.19	127.18	120.44
1	bz	160	PRO	C-N-CA	5.19	127.18	120.44
1	bB	186	THR	CA-C-N	5.19	128.19	120.31
1	bB	186	THR	C-N-CA	5.19	128.19	120.31
1	bH	173	ARG	CA-C-N	5.19	127.65	120.29
1	bH	173	ARG	C-N-CA	5.19	127.65	120.29
1	c6	159	GLU	N-CA-C	5.19	118.66	109.58
1	cs	108	THR	CB-CA-C	-5.19	100.97	109.99
1	ct	70	LYS	CA-C-O	5.19	126.23	120.63
1	cF	124	ILE	O-C-N	-5.19	115.87	121.11
1	cH	55	MET	O-C-N	-5.19	116.49	122.09
1	d2	94	GLY	CA-C-O	5.19	124.75	119.10
1	dj	49	PRO	O-C-N	5.19	128.20	122.24
1	dv	217	ALA	CA-C-O	-5.19	115.48	121.19
1	dJ	181	VAL	CA-C-O	-5.19	115.56	120.95
1	dR	19	THR	O-C-N	5.19	127.48	122.09
1	dT	131	LYS	N-CA-C	5.19	116.93	111.28
1	dY	189	LEU	O-C-N	-5.19	116.49	122.09
1	1o	6	LEU	N-CA-C	5.19	119.45	113.18
1	ej	168	PHE	CA-C-N	5.19	127.23	120.28
1	ej	168	PHE	C-N-CA	5.19	127.23	120.28
1	eq	162	ARG	NE-CZ-NH1	5.19	126.69	121.50
1	eD	18	ARG	CB-CG-CD	5.19	123.23	111.30
1	eE	160	PRO	CA-C-N	5.19	131.44	121.54
1	eE	160	PRO	C-N-CA	5.19	131.44	121.54
1	eI	178	SER	N-CA-C	5.19	117.40	110.35
1	eP	95	GLN	N-CA-C	5.19	117.55	110.55
1	eX	219	GLN	N-CA-C	5.19	119.45	113.18
1	f3	22	ALA	CB-CA-C	5.19	119.11	110.81
1	f5	104	ILE	N-CA-C	5.19	115.91	110.62
1	fm	109	SER	N-CA-C	5.19	117.90	109.24
1	fn	54	THR	N-CA-C	5.19	116.93	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fz	6	LEU	CA-C-N	5.19	131.45	121.54
1	fz	6	LEU	C-N-CA	5.19	131.45	121.54
1	fz	55	MET	CG-SD-CE	-5.19	89.49	100.90
1	fN	141	ILE	N-CA-CB	5.19	116.62	110.55
1	fX	24	VAL	N-CA-C	5.19	115.91	110.62
1	fX	183	ASN	CA-CB-CG	5.19	117.79	112.60
1	g4	11	VAL	O-C-N	-5.19	117.29	123.05
1	c	57	ASN	CA-C-O	5.19	126.27	120.82
1	q	209	ALA	N-CA-C	5.19	117.81	110.50
1	u	129	ILE	CA-C-O	5.19	126.66	121.27
1	x	34	PRO	N-CD-CG	5.19	110.98	103.20
1	B	23	TRP	CB-CG-CD2	5.19	134.06	126.80
1	I	228	ALA	N-CA-C	5.19	117.88	109.06
1	V	80	TRP	CB-CA-C	-5.19	102.18	110.79
1	7	32	PHE	N-CA-C	-5.19	106.81	112.72
1	g9	217	ALA	N-CA-CB	-5.18	102.95	110.36
1	ga	26	VAL	N-CA-CB	5.18	117.59	110.54
1	go	66	MET	O-C-N	-5.18	116.24	122.15
1	gt	122	PRO	N-CA-CB	5.18	108.30	102.60
1	gE	226	HIS	N-CA-C	-5.18	105.00	113.19
1	gH	126	VAL	CB-CA-C	-5.18	105.14	112.14
1	gJ	71	GLU	CA-C-O	-5.18	115.06	120.55
1	gV	126	VAL	N-CA-C	5.18	115.40	110.42
1	h3	142	VAL	N-CA-C	5.18	115.40	110.42
1	h3	175	GLU	CA-C-O	-5.18	115.35	121.16
1	h7	211	LEU	CA-C-N	5.18	127.18	120.44
1	h7	211	LEU	C-N-CA	5.18	127.18	120.44
1	hd	99	PRO	N-CA-C	5.18	118.63	110.80
1	hy	100	ARG	O-C-N	-5.18	115.76	122.97
1	hO	143	ARG	NE-CZ-NH2	-5.18	114.53	119.20
1	hP	23	TRP	CB-CG-CD1	5.18	134.68	126.90
1	hS	105	ALA	N-CA-CB	-5.18	102.82	110.49
1	1M	115	ILE	N-CA-C	5.18	115.91	110.62
1	i7	227	LYS	CA-CB-CG	5.18	124.47	114.10
1	i8	66	MET	N-CA-C	5.18	117.01	111.36
1	ii	84	HIS	CE1-NE2-CD2	-5.18	103.81	109.00
1	ii	100	ARG	O-C-N	-5.18	116.83	122.84
1	ip	7	GLN	CB-CG-CD	5.18	121.42	112.60
1	iq	109	SER	O-C-N	-5.18	117.87	123.42
1	ir	96	MET	CG-SD-CE	-5.18	89.49	100.90
1	iB	226	HIS	N-CA-C	-5.18	106.19	112.88
1	iS	113	GLU	N-CA-C	5.18	117.33	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iZ	12	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	ja	229	ARG	CD-NE-CZ	-5.18	117.14	124.40
1	jq	226	HIS	N-CA-C	5.18	117.83	110.10
1	jr	36	VAL	O-C-N	-5.18	114.97	122.12
1	jx	82	ARG	CA-C-N	5.18	127.18	120.44
1	jx	82	ARG	C-N-CA	5.18	127.18	120.44
1	jy	177	ALA	CA-C-N	5.18	128.44	120.82
1	jy	177	ALA	C-N-CA	5.18	128.44	120.82
1	jB	124	ILE	CA-C-O	-5.18	116.09	119.15
1	jH	97	ARG	O-C-N	-5.18	116.57	122.89
1	jM	171	THR	CA-C-N	5.18	127.23	120.28
1	jM	171	THR	C-N-CA	5.18	127.23	120.28
1	1Y	114	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	1Y	173	ARG	NE-CZ-NH2	5.18	123.87	119.20
1	jX	181	VAL	N-CA-C	5.18	115.62	110.23
1	k5	185	MET	CG-SD-CE	-5.18	89.49	100.90
1	ke	123	PRO	CA-N-CD	-5.18	104.74	112.00
1	kk	176	GLN	CA-C-N	5.18	131.44	121.54
1	kk	176	GLN	C-N-CA	5.18	131.44	121.54
1	kw	125	PRO	CA-C-N	5.18	129.52	120.86
1	kw	125	PRO	C-N-CA	5.18	129.52	120.86
1	kA	133	TRP	NE1-CE2-CD2	-5.18	100.66	107.40
1	kB	7	GLN	CB-CA-C	5.18	120.74	110.42
1	23	21	ASN	CA-C-O	5.18	125.93	119.97
1	kN	29	GLU	N-CA-C	5.18	119.58	112.68
1	kT	24	VAL	O-C-N	-5.18	116.84	121.87
1	kU	18	ARG	NH1-CZ-NH2	-5.18	112.56	119.30
1	l4	152	ASP	CA-C-O	5.18	125.35	119.18
1	l8	204	ALA	CB-CA-C	-5.18	102.18	110.79
1	la	175	GLU	N-CA-C	5.18	117.75	110.23
1	lj	15	ILE	N-CA-CB	5.18	118.22	110.13
1	ll	90	PRO	N-CA-CB	5.18	108.69	103.25
1	lp	154	ARG	N-CA-CB	5.18	119.60	111.20
1	lB	139	ASN	CA-C-O	5.18	126.23	120.63
1	lH	29	GLU	O-C-N	-5.18	115.38	122.33
1	lI	36	VAL	N-CA-CB	-5.18	103.93	110.57
1	lO	12	HIS	CA-C-N	5.18	130.95	122.81
1	lO	12	HIS	C-N-CA	5.18	130.95	122.81
1	2d	121	ASN	O-C-N	-5.18	114.27	121.47
1	2n	105	ALA	N-CA-C	-5.18	107.02	113.19
1	2r	31	ALA	N-CA-C	5.18	116.93	111.28
1	2r	142	VAL	CA-C-O	-5.18	115.67	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2r	192	GLN	CA-C-N	5.18	127.18	120.44
1	2r	192	GLN	C-N-CA	5.18	127.18	120.44
1	2t	84	HIS	CA-CB-CG	5.18	118.98	113.80
1	2I	25	LYS	CA-C-O	5.18	125.92	120.42
1	2K	127	GLY	CA-C-N	5.18	127.18	120.44
1	2K	127	GLY	C-N-CA	5.18	127.18	120.44
1	2L	8	GLY	O-C-N	5.18	127.22	122.19
1	2R	12	HIS	CB-CG-CD2	-5.18	124.46	131.20
1	32	7	GLN	CG-CD-NE2	5.18	124.18	116.40
1	3e	36	VAL	N-CA-CB	5.18	120.16	110.77
1	3i	126	VAL	O-C-N	-5.18	116.81	121.89
1	3l	105	ALA	CB-CA-C	-5.18	101.04	110.63
1	3m	207	PRO	O-C-N	-5.18	115.75	122.23
1	3o	97	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	3q	139	ASN	N-CA-C	5.18	117.67	111.71
1	3s	144	MET	N-CA-C	5.18	117.01	111.36
1	3F	215	MET	CA-C-O	-5.18	115.06	120.55
1	3X	154	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	45	28	GLU	N-CA-C	5.18	118.87	112.54
1	4x	111	LEU	N-CA-C	5.18	117.60	111.33
1	4F	132	ARG	NE-CZ-NH2	5.18	123.87	119.20
1	4K	15	ILE	O-C-N	-5.18	117.76	122.79
1	4T	123	PRO	N-CA-C	5.18	119.36	111.11
1	53	6	LEU	N-CA-C	5.18	118.91	112.58
1	5b	139	ASN	CA-CB-CG	5.18	117.78	112.60
1	5h	152	ASP	O-C-N	-5.18	114.86	122.43
1	5v	32	PHE	CA-CB-CG	5.18	118.98	113.80
1	5G	110	THR	O-C-N	-5.18	115.69	122.59
1	5H	62	HIS	ND1-CG-CD2	5.18	111.28	106.10
1	5I	64	ALA	N-CA-C	5.18	116.62	111.07
1	5S	199	LYS	CA-C-O	-5.18	115.38	120.82
1	5T	187	GLU	CA-C-O	-5.18	113.20	119.27
1	6a	104	ILE	CB-CA-C	-5.18	103.86	112.26
1	6d	150	ILE	O-C-N	-5.18	115.26	122.05
1	6C	25	LYS	N-CA-C	5.18	116.93	111.28
1	6O	131	LYS	O-C-N	-5.18	116.73	122.07
1	6P	23	TRP	CA-C-O	5.18	125.92	120.42
1	6Q	167	ARG	N-CA-CB	-5.18	102.50	110.12
1	6U	93	PRO	CA-C-N	-5.18	112.67	122.05
1	6U	93	PRO	C-N-CA	-5.18	112.67	122.05
1	6U	143	ARG	CD-NE-CZ	-5.18	117.14	124.40
1	72	69	LEU	CA-C-O	5.18	125.92	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	72	70	LYS	N-CA-C	5.18	117.83	111.82
1	7c	142	VAL	N-CA-CB	-5.18	103.49	110.54
1	7n	157	PRO	N-CA-CB	-5.18	97.81	103.25
1	7u	39	MET	CA-C-N	5.18	127.65	120.29
1	7u	39	MET	C-N-CA	5.18	127.65	120.29
1	7v	174	ALA	CA-C-N	5.18	128.07	120.71
1	7v	174	ALA	C-N-CA	5.18	128.07	120.71
1	7A	97	ARG	O-C-N	-5.18	116.52	122.95
1	7W	157	PRO	N-CD-CG	5.18	110.98	103.20
1	83	144	MET	CA-C-N	5.18	130.21	121.14
1	83	144	MET	C-N-CA	5.18	130.21	121.14
1	8p	7	GLN	CA-C-O	5.18	126.79	120.57
1	8q	204	ALA	CA-C-N	5.18	127.49	120.44
1	8q	204	ALA	C-N-CA	5.18	127.49	120.44
1	8J	3	VAL	CA-C-N	5.18	131.44	121.54
1	8J	3	VAL	C-N-CA	5.18	131.44	121.54
1	8Q	97	ARG	O-C-N	-5.18	115.41	122.36
1	8W	118	MET	CA-C-N	5.18	131.70	122.06
1	8W	118	MET	C-N-CA	5.18	131.70	122.06
1	8X	121	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	90	12	HIS	CG-CD2-NE2	5.18	112.39	107.20
1	95	174	ALA	CA-C-N	5.18	128.07	120.71
1	95	174	ALA	C-N-CA	5.18	128.07	120.71
1	99	180	GLU	N-CA-C	5.18	117.01	111.36
1	9a	79	GLU	CA-C-N	5.18	127.49	120.65
1	9a	79	GLU	C-N-CA	5.18	127.49	120.65
1	9p	98	GLU	CA-C-N	5.18	125.34	119.90
1	9p	98	GLU	C-N-CA	5.18	125.34	119.90
1	9t	166	ASP	N-CA-CB	-5.18	102.49	110.16
1	9u	37	ILE	O-C-N	-5.18	116.39	120.07
1	9u	70	LYS	CA-C-N	5.18	128.19	120.31
1	9u	70	LYS	C-N-CA	5.18	128.19	120.31
1	Y	171	THR	CA-C-N	5.18	127.65	120.29
1	Y	171	THR	C-N-CA	5.18	127.65	120.29
1	Y	229	ARG	NH1-CZ-NH2	-5.18	112.56	119.30
1	9R	194	ALA	N-CA-C	5.18	121.84	110.80
1	9Z	132	ARG	CA-C-N	5.18	127.23	120.28
1	9Z	132	ARG	C-N-CA	5.18	127.23	120.28
1	a1	163	ASP	CA-C-O	-5.18	115.38	120.82
1	ad	87	HIS	N-CA-CB	5.18	117.66	109.83
1	ao	162	ARG	NE-CZ-NH2	-5.18	114.53	119.20
1	ap	185	MET	N-CA-C	5.18	116.93	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	at	142	VAL	O-C-N	-5.18	116.76	121.94
1	aB	74	ASN	CA-CB-CG	-5.18	107.42	112.60
1	aO	92	GLU	CA-C-N	5.18	125.16	120.03
1	aO	92	GLU	C-N-CA	5.18	125.16	120.03
1	aP	117	TRP	O-C-N	-5.18	115.89	122.27
1	aU	82	ARG	N-CA-C	5.18	117.60	111.33
1	aW	220	GLY	O-C-N	-5.18	117.43	122.77
1	aX	1	PRO	N-CA-CB	5.18	108.70	103.00
1	aY	10	MET	N-CA-C	5.18	117.68	109.96
1	b0	16	SER	CA-C-N	5.18	124.98	119.28
1	b0	16	SER	C-N-CA	5.18	124.98	119.28
1	b4	137	GLY	CA-C-O	5.18	126.09	120.75
1	b8	9	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	bj	100	ARG	CA-C-N	5.18	125.73	119.98
1	bj	100	ARG	C-N-CA	5.18	125.73	119.98
1	bm	7	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	bs	193	ASN	CA-C-N	5.18	132.21	121.32
1	bs	193	ASN	C-N-CA	5.18	132.21	121.32
1	19	120	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	bE	87	HIS	CA-CB-CG	5.18	118.98	113.80
1	bM	47	ALA	CA-C-O	5.18	126.66	120.70
1	bQ	84	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	bR	126	VAL	N-CA-C	5.18	115.96	110.72
1	bS	23	TRP	CG-CD2-CE3	5.18	139.09	133.90
1	bW	15	ILE	O-C-N	-5.18	116.96	122.61
1	c6	120	HIS	O-C-N	-5.18	116.18	122.82
1	c9	62	HIS	ND1-CG-CD2	5.18	111.28	106.10
1	c9	94	GLY	N-CA-C	-5.18	107.72	113.79
1	cb	22	ALA	CA-C-O	5.18	126.26	120.82
1	cb	91	ILE	CB-CA-C	-5.18	104.77	111.20
1	cj	33	SER	CA-CB-OG	5.18	121.47	111.10
1	1e	62	HIS	CB-CG-ND1	-5.18	114.92	122.70
1	cs	5	ASN	N-CA-CB	-5.18	102.24	110.28
1	cv	103	ASP	CA-C-N	5.18	127.56	120.46
1	cv	103	ASP	C-N-CA	5.18	127.56	120.46
1	cF	100	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	cG	16	SER	CA-C-N	5.18	126.32	119.84
1	cG	16	SER	C-N-CA	5.18	126.32	119.84
1	cJ	82	ARG	NE-CZ-NH1	5.18	126.69	121.50
1	cO	137	GLY	CA-C-O	-5.18	115.41	120.75
1	cP	119	THR	N-CA-C	5.18	121.39	113.61
1	da	208	ALA	CA-C-O	5.18	125.34	119.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	db	7	GLN	O-C-N	-5.18	115.15	122.10
1	dg	124	ILE	O-C-N	-5.18	116.15	120.92
1	dk	84	HIS	CA-CB-CG	5.18	118.98	113.80
1	1k	120	HIS	O-C-N	-5.18	116.69	122.75
1	1k	163	ASP	CA-C-O	5.18	126.23	120.63
1	dp	190	LEU	N-CA-C	5.18	121.84	110.80
1	dL	78	ALA	O-C-N	-5.18	116.24	122.15
1	dP	128	GLU	N-CA-C	-5.18	105.81	111.82
1	dP	168	PHE	CA-C-N	5.18	127.48	120.38
1	dP	168	PHE	C-N-CA	5.18	127.48	120.38
1	dQ	46	GLY	N-CA-C	5.18	122.33	114.61
1	dU	65	ALA	N-CA-C	5.18	116.93	111.28
1	dZ	204	ALA	N-CA-CB	-5.18	102.32	110.46
1	e6	226	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	el	33	SER	N-CA-CB	-5.18	105.95	111.29
1	eC	95	GLN	CB-CA-C	-5.18	99.92	109.46
1	eH	101	GLY	CA-C-N	5.18	127.23	120.28
1	eH	101	GLY	C-N-CA	5.18	127.23	120.28
1	eI	32	PHE	N-CA-CB	5.18	116.85	110.53
1	eN	72	THR	N-CA-CB	5.18	117.53	110.01
1	eQ	24	VAL	CA-C-N	5.18	131.44	121.54
1	eQ	24	VAL	C-N-CA	5.18	131.44	121.54
1	f6	23	TRP	N-CA-C	5.18	116.93	111.28
1	f6	177	ALA	N-CA-C	5.18	117.81	110.50
1	f9	13	GLN	CA-C-N	-5.18	113.51	120.87
1	f9	13	GLN	C-N-CA	-5.18	113.51	120.87
1	ff	126	VAL	N-CA-CB	5.18	116.95	110.47
1	fm	151	LEU	N-CA-C	5.18	116.93	111.28
1	fr	214	MET	O-C-N	-5.18	115.89	122.27
1	fw	21	ASN	CA-CB-CG	5.18	117.78	112.60
1	fB	125	PRO	N-CA-CB	-5.18	97.81	103.25
1	fE	153	ILE	CA-C-O	5.18	126.76	121.58
1	fK	130	TYR	O-C-N	-5.18	116.62	122.12
1	fQ	195	ASN	CA-C-O	-5.18	114.88	119.75
1	fX	208	ALA	N-CA-CB	-5.18	102.99	110.56
1	b	48	THR	O-C-N	-5.18	114.94	121.21
1	b	129	ILE	CA-C-N	5.18	127.23	120.28
1	b	129	ILE	C-N-CA	5.18	127.23	120.28
1	d	84	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	d	214	MET	N-CA-C	5.18	116.62	111.07
1	k	58	THR	CA-CB-CG2	-5.18	101.69	110.50
1	l	206	GLY	CA-C-O	-5.18	114.11	121.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	o	143	ARG	CA-C-N	5.18	127.23	120.28
1	o	143	ARG	C-N-CA	5.18	127.23	120.28
1	w	155	GLN	CA-C-O	5.18	126.59	120.58
1	J	22	ALA	CA-C-N	5.18	127.18	120.44
1	J	22	ALA	C-N-CA	5.18	127.18	120.44
1	R	8	GLY	N-CA-C	-5.18	104.70	112.89
1	6	64	ALA	O-C-N	-5.18	116.62	122.12
1	7	116	GLY	O-C-N	-5.18	115.96	122.70
1	g8	193	ASN	CA-CB-CG	-5.18	107.42	112.60
1	g9	19	THR	N-CA-C	5.18	117.33	111.11
1	gb	3	VAL	CA-C-O	-5.18	114.61	120.67
1	gc	159	GLU	O-C-N	-5.18	115.83	121.53
1	ge	9	GLN	CA-C-N	5.18	131.05	121.52
1	ge	9	GLN	C-N-CA	5.18	131.05	121.52
1	ge	27	VAL	N-CA-C	-5.18	105.33	110.62
1	gk	230	VAL	CA-C-O	5.18	125.85	119.58
1	gl	82	ARG	NH1-CZ-NH2	-5.18	112.56	119.30
1	gm	70	LYS	CA-C-N	5.18	127.22	120.28
1	gm	70	LYS	C-N-CA	5.18	127.22	120.28
1	gm	114	GLN	CA-C-O	-5.18	115.06	120.55
1	gx	25	LYS	CA-C-O	-5.18	115.38	120.82
1	gA	53	ASN	O-C-N	-5.18	116.63	122.12
1	gB	159	GLU	CA-C-N	5.18	125.10	119.76
1	gB	159	GLU	C-N-CA	5.18	125.10	119.76
1	gD	55	MET	N-CA-CB	-5.18	102.50	110.12
1	gF	210	THR	N-CA-CB	5.18	117.48	110.38
1	gI	98	GLU	N-CA-C	5.18	120.02	109.60
1	gR	173	ARG	N-CA-C	5.18	116.93	111.28
1	gS	69	LEU	CA-C-N	5.18	127.74	120.28
1	gS	69	LEU	C-N-CA	5.18	127.74	120.28
1	gS	82	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	gV	124	ILE	CA-C-N	5.18	128.91	121.91
1	gV	124	ILE	C-N-CA	5.18	128.91	121.91
1	1G	71	GLU	CA-C-N	-5.18	113.33	120.28
1	1G	71	GLU	C-N-CA	-5.18	113.33	120.28
1	h0	84	HIS	CB-CG-CD2	-5.18	124.46	131.20
1	h3	15	ILE	CA-C-O	-5.18	116.40	121.58
1	h4	188	THR	O-C-N	-5.18	115.89	121.95
1	ho	24	VAL	CA-CB-CG1	-5.18	101.59	110.40
1	1J	87	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	hw	167	ARG	NE-CZ-NH2	5.18	123.86	119.20
1	hG	117	TRP	CD2-CE3-CZ3	-5.18	111.86	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hK	215	MET	O-C-N	-5.18	115.65	122.39
1	hV	79	GLU	O-C-N	-5.18	115.90	122.27
1	1N	211	LEU	CA-C-O	5.18	125.91	120.42
1	i4	83	LEU	CA-C-N	5.18	127.61	120.67
1	i4	83	LEU	C-N-CA	5.18	127.61	120.67
1	i6	193	ASN	N-CA-C	-5.18	106.55	112.92
1	i8	67	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	ic	96	MET	CB-CA-C	5.18	118.32	109.72
1	1P	72	THR	N-CA-CB	5.18	117.53	110.01
1	io	21	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	it	32	PHE	CA-C-O	-5.18	114.78	120.43
1	iw	25	LYS	N-CA-C	5.18	116.93	111.28
1	iC	171	THR	CA-C-O	5.18	126.04	120.70
1	iD	230	VAL	O-C-N	-5.18	117.44	122.99
1	iJ	104	ILE	CA-C-O	-5.18	115.68	121.17
1	iK	116	GLY	O-C-N	-5.18	116.75	122.24
1	iL	74	ASN	CA-C-O	-5.18	114.93	120.42
1	iS	93	PRO	CA-C-N	5.18	130.93	122.69
1	iS	93	PRO	C-N-CA	5.18	130.93	122.69
1	iZ	195	ASN	CA-C-O	-5.18	114.78	120.17
1	j2	22	ALA	O-C-N	-5.18	116.63	122.12
1	j3	154	ARG	O-C-N	-5.18	117.25	123.31
1	j4	14	ALA	CA-C-N	5.18	127.44	120.50
1	j4	14	ALA	C-N-CA	5.18	127.44	120.50
1	ja	189	LEU	CA-C-N	5.18	127.18	120.44
1	ja	189	LEU	C-N-CA	5.18	127.18	120.44
1	jl	118	MET	N-CA-C	5.18	117.01	111.36
1	jv	62	HIS	CB-CG-ND1	-5.18	114.93	122.70
1	jz	71	GLU	N-CA-CB	-5.18	102.50	110.12
1	k8	183	ASN	CA-CB-CG	-5.18	107.42	112.60
1	k9	124	ILE	CA-C-O	-5.18	117.36	120.88
1	km	112	GLN	CB-CG-CD	5.18	121.41	112.60
1	kp	14	ALA	CA-C-O	-5.18	115.91	121.56
1	kq	83	LEU	CA-C-O	5.18	126.04	120.55
1	kE	216	THR	CA-C-N	5.18	128.07	120.71
1	kE	216	THR	C-N-CA	5.18	128.07	120.71
1	kP	76	GLU	O-C-N	-5.18	116.24	122.15
1	kP	152	ASP	CA-CB-CG	-5.18	107.42	112.60
1	kR	131	LYS	CA-C-N	5.18	127.22	120.28
1	kR	131	LYS	C-N-CA	5.18	127.22	120.28
1	l4	120	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	l7	205	LEU	O-C-N	5.18	127.69	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lg	132	ARG	O-C-N	-5.18	116.73	122.07
1	li	74	ASN	CA-C-N	5.18	127.18	120.44
1	li	74	ASN	C-N-CA	5.18	127.18	120.44
1	lj	86	VAL	O-C-N	-5.18	117.37	122.76
1	lo	113	GLU	N-CA-CB	5.18	117.59	110.07
1	lp	84	HIS	CB-CA-C	-5.18	101.95	110.55
1	lr	5	ASN	CA-CB-CG	5.18	117.78	112.60
1	lE	179	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	lI	199	LYS	O-C-N	-5.18	116.73	122.07
1	lM	3	VAL	N-CA-CB	5.18	122.36	111.37
1	lP	33	SER	O-C-N	-5.18	115.06	121.64
1	2b	7	GLN	CB-CG-CD	-5.18	103.79	112.60
1	2g	28	GLU	N-CA-C	5.18	116.61	111.07
1	2o	7	GLN	CB-CA-C	-5.18	100.11	110.42
1	2x	70	LYS	O-C-N	5.18	127.61	122.12
1	2x	189	LEU	N-CA-C	5.18	116.62	111.07
1	2R	74	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	2R	105	ALA	O-C-N	-5.18	114.86	122.43
1	2S	135	ILE	O-C-N	-5.18	116.84	121.87
1	2T	185	MET	N-CA-C	5.18	116.62	110.97
1	2W	63	GLN	CG-CD-NE2	-5.18	108.63	116.40
1	2Y	73	ILE	CA-C-O	-5.18	115.56	120.95
1	37	32	PHE	N-CA-CB	-5.18	102.63	110.77
1	3c	75	GLU	N-CA-CB	-5.18	102.25	110.28
1	3p	166	ASP	N-CA-CB	-5.18	102.49	110.01
1	3p	194	ALA	N-CA-C	5.18	116.98	110.24
1	3y	110	THR	O-C-N	-5.18	115.70	122.59
1	3N	25	LYS	N-CA-CB	5.18	117.83	110.16
1	3N	162	ARG	NH1-CZ-NH2	-5.18	112.56	119.30
1	3O	33	SER	CA-C-N	5.18	124.98	119.28
1	3O	33	SER	C-N-CA	5.18	124.98	119.28
1	3O	186	THR	O-C-N	-5.18	116.24	122.15
1	3R	6	LEU	CA-C-O	5.18	126.96	121.16
1	3U	148	THR	N-CA-CB	5.18	120.17	110.99
1	3U	198	CYS	N-CA-C	5.18	117.01	111.36
1	45	229	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	4z	181	VAL	CA-C-N	5.18	127.18	120.44
1	4z	181	VAL	C-N-CA	5.18	127.18	120.44
1	4C	133	TRP	N-CA-C	5.18	116.93	111.28
1	4I	141	ILE	N-CA-C	5.18	115.39	110.42
1	4N	139	ASN	CA-CB-CG	-5.18	107.42	112.60
1	5o	139	ASN	OD1-CG-ND2	-5.18	117.42	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5p	179	GLN	OE1-CD-NE2	5.18	127.78	122.60
1	5r	144	MET	CA-C-O	5.18	125.93	119.97
1	5z	21	ASN	N-CA-C	5.18	116.93	111.28
1	5W	74	ASN	O-C-N	5.18	127.61	122.12
1	5W	88	ALA	CA-C-N	5.18	130.01	121.87
1	5W	88	ALA	C-N-CA	5.18	130.01	121.87
1	5W	93	PRO	N-CA-C	5.18	119.34	111.15
1	6a	88	ALA	CB-CA-C	-5.18	101.73	110.64
1	6n	121	ASN	CB-CA-C	5.18	115.76	109.85
1	6u	178	SER	CA-C-O	5.18	127.89	122.03
1	6y	192	GLN	CA-C-O	5.18	125.74	119.31
1	6A	25	LYS	CA-CB-CG	5.18	124.47	114.10
1	6G	148	THR	CA-CB-OG1	5.18	117.37	109.60
1	73	87	HIS	N-CA-C	5.18	118.87	112.24
1	7b	201	ILE	CA-C-N	5.18	127.74	120.28
1	7b	201	ILE	C-N-CA	5.18	127.74	120.28
1	7f	120	HIS	O-C-N	-5.18	116.94	122.85
1	7k	162	ARG	O-C-N	-5.18	116.73	122.07
1	7B	62	HIS	CA-CB-CG	5.18	118.98	113.80
1	7F	93	PRO	N-CA-C	5.18	120.67	113.98
1	7L	17	PRO	CB-CA-C	5.18	119.25	111.68
1	7Q	50	GLN	N-CA-C	5.18	117.60	111.33
1	7Q	74	ASN	CA-C-O	-5.18	114.01	119.97
1	7S	126	VAL	O-C-N	-5.18	116.67	121.90
1	7T	210	THR	O-C-N	-5.18	116.62	122.68
1	7X	203	LYS	CA-C-N	5.18	127.74	120.28
1	7X	203	LYS	C-N-CA	5.18	127.74	120.28
1	88	202	LEU	CA-C-O	5.18	125.91	120.42
1	8g	37	ILE	N-CA-CB	5.18	113.77	110.50
1	8n	72	THR	N-CA-CB	5.18	117.74	110.12
1	8q	41	SER	O-C-N	-5.18	115.89	122.27
1	8x	16	SER	N-CA-C	5.18	118.82	109.44
1	8L	105	ALA	O-C-N	-5.18	114.08	122.42
1	8L	211	LEU	N-CA-C	-5.18	105.81	111.82
1	8O	21	ASN	N-CA-CB	5.18	117.58	110.07
1	8P	87	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	8P	104	ILE	N-CA-C	5.18	115.91	110.62
1	8Q	115	ILE	N-CA-CB	5.18	116.61	110.55
1	8T	110	THR	O-C-N	-5.18	116.94	122.85
1	90	87	HIS	ND1-CG-CD2	-5.18	100.92	106.10
1	96	112	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	97	182	LYS	O-C-N	-5.18	116.63	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9b	45	GLU	N-CA-C	5.18	121.84	110.80
1	9f	13	GLN	CA-C-N	5.18	128.13	120.82
1	9f	13	GLN	C-N-CA	5.18	128.13	120.82
1	9m	67	GLN	CG-CD-NE2	5.18	124.17	116.40
1	9t	5	ASN	CA-C-O	5.18	124.42	119.08
1	9v	100	ARG	NE-CZ-NH2	5.18	123.86	119.20
1	9v	121	ASN	O-C-N	-5.18	114.86	121.29
1	9v	166	ASP	O-C-N	-5.18	116.49	122.09
1	9H	112	GLN	CA-C-O	-5.18	115.38	120.82
1	9Q	208	ALA	N-CA-CB	-5.18	103.31	111.39
1	9Y	210	THR	N-CA-C	5.18	118.19	110.52
1	a6	119	THR	CA-C-N	5.18	130.40	120.97
1	a6	119	THR	C-N-CA	5.18	130.40	120.97
1	ac	33	SER	CA-C-O	-5.18	115.31	120.96
1	ad	218	CYS	CA-C-O	5.18	127.45	121.28
1	an	221	VAL	N-CA-CB	5.18	117.27	111.21
1	aw	226	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	aD	19	THR	O-C-N	-5.18	116.63	122.12
1	aG	86	VAL	N-CA-C	-5.18	100.40	108.95
1	b1	215	MET	CA-C-O	5.18	125.74	119.11
1	b2	179	GLN	N-CA-C	5.18	121.84	110.80
1	bc	81	ASP	O-C-N	-5.18	116.63	122.12
1	bc	114	GLN	O-C-N	5.18	127.61	122.12
1	bc	137	GLY	CA-C-N	5.18	127.23	120.28
1	bc	137	GLY	C-N-CA	5.18	127.23	120.28
1	bn	1	PRO	CB-CA-C	5.18	119.95	110.10
1	br	198	CYS	N-CA-C	5.18	116.61	111.07
1	br	224	PRO	N-CD-CG	5.18	110.97	103.20
1	bs	195	ASN	CA-C-N	5.18	126.32	119.84
1	bs	195	ASN	C-N-CA	5.18	126.32	119.84
1	bt	89	GLY	CA-C-N	5.18	124.94	119.76
1	bt	89	GLY	C-N-CA	5.18	124.94	119.76
1	bx	209	ALA	N-CA-CB	-5.18	101.45	109.69
1	bB	195	ASN	CB-CA-C	5.18	119.10	109.51
1	c9	227	LYS	CA-C-N	5.18	129.91	122.35
1	c9	227	LYS	C-N-CA	5.18	129.91	122.35
1	ca	157	PRO	O-C-N	5.18	128.71	122.23
1	1d	12	HIS	CB-CG-CD2	-5.18	124.46	131.20
1	cg	226	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	cj	203	LYS	N-CA-C	5.18	116.93	111.28
1	cr	108	THR	CA-CB-CG2	-5.18	101.69	110.50
1	cu	80	TRP	O-C-N	-5.18	116.63	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	168	PHE	CA-CB-CG	5.18	118.98	113.80
1	cO	17	PRO	N-CA-CB	5.18	109.24	103.44
1	cU	112	GLN	CB-CG-CD	-5.18	103.79	112.60
1	cY	129	ILE	CB-CG1-CD1	-5.18	102.92	113.80
1	d4	53	ASN	CA-C-N	5.18	127.18	120.44
1	d4	53	ASN	C-N-CA	5.18	127.18	120.44
1	dh	116	GLY	CA-C-O	-5.18	115.41	120.75
1	dt	82	ARG	NE-CZ-NH2	-5.18	114.53	119.20
1	dx	40	PHE	CA-C-N	5.18	127.22	120.28
1	dx	40	PHE	C-N-CA	5.18	127.22	120.28
1	dD	24	VAL	N-CA-C	5.18	115.40	110.53
1	dF	91	ILE	N-CA-C	-5.18	105.04	112.35
1	dK	226	HIS	CG-CD2-NE2	5.18	112.38	107.20
1	dQ	144	MET	N-CA-C	5.18	116.93	111.28
1	dZ	12	HIS	CB-CG-CD2	-5.18	124.46	131.20
1	ea	144	MET	CA-C-N	5.18	130.35	122.37
1	ea	144	MET	C-N-CA	5.18	130.35	122.37
1	1p	74	ASN	N-CA-C	5.18	116.93	111.28
1	el	25	LYS	CA-C-N	5.18	127.09	120.56
1	el	25	LYS	C-N-CA	5.18	127.09	120.56
1	eu	74	ASN	OD1-CG-ND2	-5.18	117.42	122.60
1	ex	2	ILE	O-C-N	-5.18	117.74	123.18
1	eC	156	GLY	CA-C-N	-5.18	113.70	119.19
1	eC	156	GLY	C-N-CA	-5.18	113.70	119.19
1	eF	175	GLU	CA-C-N	5.18	131.44	121.54
1	eF	175	GLU	C-N-CA	5.18	131.44	121.54
1	eV	95	GLN	CB-CG-CD	5.18	121.41	112.60
1	fe	192	GLN	N-CA-CB	-5.18	101.51	110.32
1	fg	29	GLU	N-CA-C	5.18	116.93	111.28
1	fu	34	PRO	CA-N-CD	-5.18	104.74	112.00
1	fz	164	TYR	CA-C-O	5.18	126.26	120.82
1	fI	51	ASP	CA-C-O	-5.18	115.36	120.70
1	fN	174	ALA	N-CA-CB	5.18	117.83	110.16
1	fO	183	ASN	CA-CB-CG	-5.18	107.42	112.60
1	fT	12	HIS	CG-CD2-NE2	5.18	112.38	107.20
1	fU	86	VAL	CA-C-N	5.18	131.44	121.54
1	fU	86	VAL	C-N-CA	5.18	131.44	121.54
1	fV	213	GLU	CA-C-N	5.18	127.48	120.38
1	fV	213	GLU	C-N-CA	5.18	127.48	120.38
1	fY	141	ILE	CA-CB-CG2	5.18	119.31	110.50
1	fZ	8	GLY	CA-C-N	5.18	129.08	120.94
1	fZ	8	GLY	C-N-CA	5.18	129.08	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	71	GLU	O-C-N	-5.18	116.73	122.07
1	1B	120	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	a	32	PHE	N-CA-CB	5.18	118.10	109.60
1	u	103	ASP	CA-C-O	5.18	125.99	120.24
1	E	162	ARG	NE-CZ-NH1	-5.18	116.32	121.50
1	M	128	GLU	N-CA-CB	5.18	117.53	110.01
1	8	114	GLN	CA-C-N	5.18	127.28	120.60
1	8	114	GLN	C-N-CA	5.18	127.28	120.60
1	gl	207	PRO	N-CA-CB	-5.18	98.64	103.46
1	gL	18	ARG	N-CA-C	5.18	117.01	111.36
1	gR	132	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	gX	87	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	h2	63	GLN	O-C-N	5.18	127.41	122.07
1	ha	28	GLU	N-CA-CB	5.18	117.74	110.12
1	hu	125	PRO	N-CA-C	-5.18	101.80	112.47
1	hv	216	THR	CB-CA-C	-5.18	101.80	110.56
1	hB	12	HIS	N-CA-CB	5.18	117.93	109.69
1	hJ	151	LEU	CA-C-O	5.18	125.74	119.11
1	hJ	182	LYS	O-C-N	5.18	127.61	122.12
1	1M	61	GLY	CA-C-N	5.18	131.44	121.54
1	1M	61	GLY	C-N-CA	5.18	131.44	121.54
1	hY	31	ALA	CA-C-N	5.18	130.30	123.05
1	hY	31	ALA	C-N-CA	5.18	130.30	123.05
1	id	28	GLU	O-C-N	-5.18	116.73	122.07
1	ij	193	ASN	OD1-CG-ND2	5.18	127.78	122.60
1	iA	109	SER	N-CA-CB	5.18	119.94	111.08
1	iC	132	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	iL	165	VAL	CA-C-O	5.18	126.34	120.85
1	iY	121	ASN	OD1-CG-ND2	5.18	127.78	122.60
1	j0	192	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	1U	102	SER	CA-C-N	5.18	127.22	120.28
1	1U	102	SER	C-N-CA	5.18	127.22	120.28
1	jK	205	LEU	CA-C-N	5.18	130.00	121.87
1	jK	205	LEU	C-N-CA	5.18	130.00	121.87
1	jX	77	ALA	CA-C-N	5.18	127.49	120.44
1	jX	77	ALA	C-N-CA	5.18	127.49	120.44
1	k0	124	ILE	O-C-N	-5.18	115.19	121.10
1	k7	23	TRP	CB-CG-CD1	-5.18	119.13	126.90
1	k9	182	LYS	CB-CA-C	-5.18	102.04	110.85
1	km	70	LYS	N-CA-C	5.18	117.67	111.71
1	ko	142	VAL	CA-C-N	-5.18	112.07	121.14
1	ko	142	VAL	C-N-CA	-5.18	112.07	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kr	210	THR	O-C-N	-5.18	116.88	122.79
1	kv	18	ARG	O-C-N	-5.18	116.63	122.12
1	ky	43	LEU	CA-C-N	5.18	130.62	122.49
1	ky	43	LEU	C-N-CA	5.18	130.62	122.49
1	23	162	ARG	O-C-N	-5.18	116.63	122.12
1	kG	80	TRP	CA-C-N	5.18	127.22	120.28
1	kG	80	TRP	C-N-CA	5.18	127.22	120.28
1	l6	70	LYS	CA-CB-CG	5.18	124.46	114.10
1	li	2	ILE	CA-C-O	5.18	126.72	120.66
1	lt	33	SER	CA-C-O	-5.18	115.08	120.88
1	lz	56	LEU	CA-C-N	5.18	127.18	120.44
1	lz	56	LEU	C-N-CA	5.18	127.18	120.44
1	lz	67	GLN	CA-C-O	5.18	125.91	120.42
1	lE	23	TRP	CE2-CD2-CE3	5.18	123.98	118.80
1	lI	81	ASP	CA-CB-CG	-5.18	107.42	112.60
1	lR	81	ASP	CA-CB-CG	5.18	117.78	112.60
1	2n	126	VAL	N-CA-CB	5.18	116.61	110.55
1	3d	142	VAL	N-CA-C	5.18	115.80	110.36
1	3i	185	MET	CG-SD-CE	-5.18	89.50	100.90
1	3r	17	PRO	CA-C-N	5.18	127.65	120.29
1	3r	17	PRO	C-N-CA	5.18	127.65	120.29
1	3C	160	PRO	CA-C-N	5.18	127.17	120.44
1	3C	160	PRO	C-N-CA	5.18	127.17	120.44
1	4g	52	LEU	CA-C-O	5.18	126.04	120.55
1	4i	103	ASP	CA-C-N	5.18	127.56	120.46
1	4i	103	ASP	C-N-CA	5.18	127.56	120.46
1	4j	183	ASN	CA-C-N	5.18	127.65	120.29
1	4j	183	ASN	C-N-CA	5.18	127.65	120.29
1	4m	139	ASN	O-C-N	-5.18	116.73	122.07
1	4D	18	ARG	CA-C-O	5.18	126.04	120.55
1	51	84	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	55	87	HIS	CB-CG-CD2	-5.18	124.47	131.20
1	59	195	ASN	CA-C-N	5.18	126.32	119.84
1	59	195	ASN	C-N-CA	5.18	126.32	119.84
1	5f	153	ILE	CB-CA-C	-5.18	105.30	112.24
1	5g	173	ARG	N-CA-C	5.18	116.93	111.28
1	5A	51	ASP	CA-CB-CG	-5.18	107.42	112.60
1	5B	2	ILE	N-CA-CB	5.18	116.18	110.53
1	5F	185	MET	N-CA-C	5.18	116.61	111.07
1	5G	226	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	6a	97	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	6h	97	ARG	NE-CZ-NH2	-5.18	114.54	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6n	126	VAL	CB-CA-C	-5.18	104.13	112.16
1	6n	138	LEU	CA-C-O	-5.18	115.06	120.55
1	6z	137	GLY	O-C-N	-5.18	117.21	122.18
1	7c	119	THR	OG1-CB-CG2	-5.18	98.94	109.30
1	7k	170	LYS	O-C-N	-5.18	116.63	122.12
1	7u	141	ILE	O-C-N	-5.18	116.84	121.87
1	7G	79	GLU	O-C-N	5.18	128.28	122.22
1	7Y	164	TYR	CA-C-N	5.18	127.56	120.46
1	7Y	164	TYR	C-N-CA	5.18	127.56	120.46
1	81	162	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	86	212	GLU	N-CA-C	5.18	117.67	111.71
1	8b	107	THR	O-C-N	-5.18	116.49	122.09
1	8H	54	THR	CA-C-O	-5.18	115.36	120.90
1	90	33	SER	CA-C-O	-5.18	114.24	120.41
1	94	154	ARG	O-C-N	-5.18	117.88	123.42
1	9d	53	ASN	N-CA-C	-5.18	105.71	111.36
1	9k	87	HIS	CA-C-O	5.18	124.60	118.90
1	9L	112	GLN	O-C-N	-5.18	116.70	122.09
1	9T	81	ASP	CA-CB-CG	-5.18	107.42	112.60
1	9Y	150	ILE	N-CA-C	5.18	117.57	111.09
1	a7	112	GLN	CA-C-N	5.18	127.65	120.29
1	a7	112	GLN	C-N-CA	5.18	127.65	120.29
1	af	68	MET	N-CA-C	5.18	116.93	111.28
1	av	165	VAL	CB-CA-C	5.18	119.37	112.22
1	aB	76	GLU	N-CA-C	5.18	116.61	111.07
1	aJ	14	ALA	CA-C-O	-5.18	115.91	121.56
1	15	180	GLU	N-CA-CB	5.18	117.58	110.07
1	b1	59	VAL	N-CA-CB	5.18	116.57	110.82
1	b7	126	VAL	CA-C-N	5.18	125.84	119.99
1	b7	126	VAL	C-N-CA	5.18	125.84	119.99
1	bl	62	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	bH	126	VAL	N-CA-C	5.18	115.91	110.62
1	bW	62	HIS	N-CA-C	5.18	118.39	111.24
1	cu	167	ARG	N-CA-C	5.18	116.93	111.28
1	cz	196	PRO	CA-C-O	-5.18	112.23	119.74
1	cK	121	ASN	CA-C-O	-5.18	114.89	119.86
1	da	51	ASP	CA-CB-CG	-5.18	107.42	112.60
1	do	55	MET	CA-CB-CG	5.18	124.46	114.10
1	dq	196	PRO	N-CA-C	5.18	123.14	112.47
1	du	172	LEU	N-CA-C	5.18	116.93	111.28
1	1n	181	VAL	CB-CA-C	5.18	119.18	112.24
1	dU	75	GLU	N-CA-C	5.18	116.93	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dU	152	ASP	CA-CB-CG	5.18	117.78	112.60
1	dV	214	MET	CG-SD-CE	-5.18	89.50	100.90
1	1o	193	ASN	CA-C-N	5.18	128.57	120.75
1	1o	193	ASN	C-N-CA	5.18	128.57	120.75
1	e3	196	PRO	N-CD-CG	5.18	110.97	103.20
1	e7	133	TRP	CG-CD2-CE3	-5.18	128.72	133.90
1	ed	72	THR	OG1-CB-CG2	-5.18	98.94	109.30
1	em	128	GLU	CA-C-O	5.18	126.23	120.63
1	eo	36	VAL	N-CA-C	5.18	116.53	110.62
1	eo	67	GLN	CB-CG-CD	5.18	121.41	112.60
1	es	113	GLU	CG-CD-OE2	5.18	130.32	118.40
1	eM	196	PRO	O-C-N	-5.18	115.64	122.64
1	1u	164	TYR	CA-C-O	5.18	125.91	120.42
1	f2	82	ARG	CA-C-N	5.18	127.74	120.28
1	f2	82	ARG	C-N-CA	5.18	127.74	120.28
1	fc	223	GLY	O-C-N	-5.18	116.59	121.77
1	fd	115	ILE	CA-C-N	5.18	125.69	119.94
1	fd	115	ILE	C-N-CA	5.18	125.69	119.94
1	fg	28	GLU	N-CA-C	5.18	117.01	111.36
1	1w	228	ALA	O-C-N	-5.18	116.57	122.89
1	fz	34	PRO	CB-CA-C	-5.18	103.61	112.26
1	fP	218	CYS	CA-C-N	5.18	128.21	120.90
1	fP	218	CYS	C-N-CA	5.18	128.21	120.90
1	fQ	59	VAL	CA-C-N	5.18	131.56	121.41
1	fQ	59	VAL	C-N-CA	5.18	131.56	121.41
1	fU	78	ALA	N-CA-C	5.18	116.93	111.28
1	g1	23	TRP	CB-CG-CD2	5.18	134.05	126.80
1	m	132	ARG	CA-C-O	5.18	126.26	120.82
1	o	219	GLN	CA-C-N	5.18	126.87	120.34
1	o	219	GLN	C-N-CA	5.18	126.87	120.34
1	x	132	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	H	141	ILE	CA-C-N	5.18	127.09	120.56
1	H	141	ILE	C-N-CA	5.18	127.09	120.56
1	J	193	ASN	CA-CB-CG	5.18	117.78	112.60
1	V	202	LEU	N-CA-C	-5.18	104.58	112.04
1	gn	10	MET	N-CA-C	5.18	117.39	110.35
1	gs	213	GLU	CA-C-N	5.18	127.17	120.44
1	gs	213	GLU	C-N-CA	5.18	127.17	120.44
1	gw	181	VAL	O-C-N	-5.18	116.51	121.90
1	gz	11	VAL	N-CA-C	5.18	115.03	107.37
1	gG	53	ASN	CA-CB-CG	5.18	117.78	112.60
1	gO	115	ILE	CA-C-N	5.18	125.73	119.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gO	115	ILE	C-N-CA	5.18	125.73	119.98
1	1G	134	ILE	CA-C-N	5.18	127.56	120.46
1	1G	134	ILE	C-N-CA	5.18	127.56	120.46
1	gZ	221	VAL	N-CA-CB	5.18	118.37	111.64
1	h0	107	THR	CA-C-O	5.18	126.04	120.55
1	h9	133	TRP	O-C-N	-5.18	115.90	122.27
1	hb	133	TRP	CE2-CD2-CG	5.18	113.42	107.20
1	hp	213	GLU	N-CA-CB	5.18	118.31	110.28
1	hu	162	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	hy	54	THR	N-CA-C	5.18	116.92	111.28
1	hA	183	ASN	N-CA-C	5.18	116.61	111.07
1	hF	167	ARG	CA-C-N	5.18	127.67	120.63
1	hF	167	ARG	C-N-CA	5.18	127.67	120.63
1	hL	123	PRO	O-C-N	5.18	129.32	123.00
1	hR	166	ASP	CB-CA-C	5.18	119.66	110.85
1	hS	53	ASN	OD1-CG-ND2	5.18	127.78	122.60
1	i2	113	GLU	N-CA-CB	5.18	117.73	110.12
1	1O	177	ALA	O-C-N	-5.18	115.70	122.59
1	ip	152	ASP	CA-CB-CG	5.18	117.78	112.60
1	iF	229	ARG	CA-C-N	5.18	127.09	120.56
1	iF	229	ARG	C-N-CA	5.18	127.09	120.56
1	iG	143	ARG	N-CA-C	5.18	116.92	111.28
1	j1	99	PRO	CA-C-O	-5.18	115.61	121.98
1	jm	37	ILE	N-CA-CB	5.18	114.49	110.45
1	jm	91	ILE	CB-CA-C	5.18	119.76	111.32
1	jm	152	ASP	CA-CB-CG	-5.18	107.42	112.60
1	jn	25	LYS	N-CA-C	5.18	116.92	111.28
1	jq	11	VAL	CA-C-N	5.18	128.22	120.87
1	jq	11	VAL	C-N-CA	5.18	128.22	120.87
1	jq	76	GLU	CA-C-N	5.18	127.53	120.54
1	jq	76	GLU	C-N-CA	5.18	127.53	120.54
1	jt	92	GLU	N-CA-C	5.18	121.25	109.81
1	1W	205	LEU	CB-CA-C	-5.18	103.80	111.72
1	jw	135	ILE	CA-C-N	5.18	127.48	120.38
1	jw	135	ILE	C-N-CA	5.18	127.48	120.38
1	jw	186	THR	OG1-CB-CG2	-5.18	98.94	109.30
1	jx	87	HIS	CB-CG-ND1	5.18	130.47	122.70
1	jI	26	VAL	CA-C-N	5.18	127.78	120.42
1	jI	26	VAL	C-N-CA	5.18	127.78	120.42
1	jI	109	SER	CA-C-O	-5.18	114.70	120.66
1	jK	20	LEU	O-C-N	-5.18	116.70	122.09
1	jQ	114	GLN	O-C-N	-5.18	116.63	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jW	28	GLU	N-CA-C	5.18	116.61	111.07
1	k5	151	LEU	O-C-N	-5.18	116.16	122.22
1	kd	154	ARG	NE-CZ-NH2	5.18	123.86	119.20
1	kh	162	ARG	CG-CD-NE	-5.18	100.61	112.00
1	km	203	LYS	CA-C-O	5.18	126.04	120.55
1	ku	184	TRP	CE2-CD2-CE3	5.18	123.98	118.80
1	kw	18	ARG	CD-NE-CZ	5.18	131.65	124.40
1	kx	78	ALA	N-CA-C	5.18	116.73	111.14
1	kz	134	ILE	CA-CB-CG2	5.18	119.31	110.50
1	kB	146	SER	N-CA-C	5.18	116.41	109.83
1	kD	12	HIS	N-CA-C	5.18	117.74	110.23
1	kF	110	THR	CA-C-N	5.18	127.22	120.28
1	kF	110	THR	C-N-CA	5.18	127.22	120.28
1	kV	134	ILE	O-C-N	-5.18	116.50	121.83
1	kW	171	THR	N-CA-CB	5.18	117.52	110.01
1	25	202	LEU	CA-C-O	-5.18	115.06	120.55
1	l2	92	GLU	N-CA-CB	5.18	117.36	109.75
1	lf	71	GLU	N-CA-C	5.18	116.93	111.28
1	li	17	PRO	N-CA-CB	-5.18	98.64	103.46
1	lq	124	ILE	CA-CB-CG1	5.18	119.20	110.40
1	lu	171	THR	CA-C-N	5.18	127.22	120.28
1	lu	171	THR	C-N-CA	5.18	127.22	120.28
1	lA	69	LEU	CA-C-O	5.18	125.91	120.42
1	29	196	PRO	N-CA-C	5.18	122.17	113.78
1	lD	159	GLU	O-C-N	-5.18	115.93	121.42
1	lG	142	VAL	O-C-N	-5.18	116.37	121.96
1	lH	16	SER	N-CA-C	5.18	116.19	109.72
1	lL	24	VAL	CA-C-N	5.18	128.18	120.31
1	lL	24	VAL	C-N-CA	5.18	128.18	120.31
1	lQ	170	LYS	CA-C-O	5.18	126.26	120.82
1	2h	219	GLN	N-CA-C	5.18	117.06	108.20
1	2i	194	ALA	O-C-N	-5.18	116.94	122.85
1	2r	167	ARG	NH1-CZ-NH2	-5.18	112.57	119.30
1	2s	40	PHE	N-CA-C	5.18	116.61	111.07
1	2I	169	TYR	O-C-N	-5.18	116.63	122.12
1	2I	215	MET	CG-SD-CE	-5.18	89.50	100.90
1	2W	32	PHE	CA-CB-CG	-5.18	108.62	113.80
1	2Z	19	THR	CB-CA-C	-5.18	102.75	110.88
1	30	65	ALA	CA-C-O	-5.18	115.38	120.82
1	32	142	VAL	CA-CB-CG1	5.18	119.21	110.40
1	35	155	GLN	CB-CG-CD	-5.18	103.79	112.60
1	3d	149	SER	CA-C-O	-5.18	115.19	120.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3l	161	PHE	CB-CG-CD2	5.18	129.50	120.70
1	3m	91	ILE	N-CA-CB	5.18	116.17	110.53
1	3n	3	VAL	N-CA-C	-5.18	101.02	108.53
1	3w	40	PHE	CB-CA-C	5.18	119.01	110.88
1	3S	72	THR	N-CA-C	5.18	116.93	111.28
1	4b	22	ALA	N-CA-C	5.18	116.92	111.28
1	4f	113	GLU	CA-C-N	5.18	127.64	120.29
1	4f	113	GLU	C-N-CA	5.18	127.64	120.29
1	4l	137	GLY	O-C-N	-5.18	117.17	122.19
1	4o	9	GLN	N-CA-C	5.18	116.97	110.24
1	4t	100	ARG	CA-C-N	5.18	125.70	120.00
1	4t	100	ARG	C-N-CA	5.18	125.70	120.00
1	4u	34	PRO	N-CA-CB	5.18	108.69	103.25
1	4U	27	VAL	CA-C-O	5.18	126.34	120.85
1	4X	86	VAL	CA-CB-CG1	5.18	119.21	110.40
1	54	43	LEU	N-CA-C	-5.18	106.91	113.18
1	55	211	LEU	CA-C-N	5.18	127.22	120.28
1	55	211	LEU	C-N-CA	5.18	127.22	120.28
1	56	45	GLU	N-CA-CB	5.18	117.57	109.85
1	59	166	ASP	CA-C-N	5.18	127.22	120.28
1	59	166	ASP	C-N-CA	5.18	127.22	120.28
1	5h	67	GLN	CB-CG-CD	5.18	121.41	112.60
1	5l	23	TRP	CE2-CD2-CE3	5.18	123.98	118.80
1	5r	28	GLU	O-C-N	-5.18	116.70	122.09
1	5y	25	LYS	N-CA-C	5.18	117.33	111.11
1	5C	110	THR	CA-C-N	5.18	128.59	120.82
1	5C	110	THR	C-N-CA	5.18	128.59	120.82
1	5E	201	ILE	CA-CB-CG1	5.18	119.20	110.40
1	5G	143	ARG	NE-CZ-NH1	5.18	126.68	121.50
1	5L	178	SER	N-CA-C	5.18	116.97	110.24
1	5M	69	LEU	CA-C-N	5.18	127.99	120.79
1	5M	69	LEU	C-N-CA	5.18	127.99	120.79
1	5R	146	SER	CB-CA-C	5.18	117.70	109.52
1	5X	185	MET	CA-C-N	5.18	127.22	120.28
1	5X	185	MET	C-N-CA	5.18	127.22	120.28
1	65	78	ALA	O-C-N	5.18	128.06	122.15
1	67	147	PRO	N-CD-CG	5.18	110.97	103.20
1	6b	26	VAL	N-CA-CB	5.18	117.58	110.54
1	6r	227	LYS	CA-C-O	-5.18	115.87	121.36
1	6T	146	SER	CA-C-O	-5.18	114.78	120.17
1	7n	147	PRO	CA-C-N	5.18	131.43	121.54
1	7n	147	PRO	C-N-CA	5.18	131.43	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7B	1	PRO	O-C-N	-5.18	114.71	123.00
1	7B	70	LYS	O-C-N	-5.18	116.63	122.12
1	7C	221	VAL	O-C-N	-5.18	117.29	123.04
1	7J	104	ILE	CA-C-O	5.18	126.06	120.47
1	7P	165	VAL	CA-CB-CG2	-5.18	101.60	110.40
1	7T	57	ASN	CA-C-O	5.18	125.95	120.10
1	7T	227	LYS	N-CA-C	5.18	117.39	110.35
1	7V	202	LEU	N-CA-C	5.18	116.61	111.07
1	81	84	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	89	49	PRO	N-CA-CB	-5.18	97.81	103.25
1	8B	63	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	8F	33	SER	CB-CA-C	5.18	116.87	109.26
1	8T	194	ALA	CA-C-O	-5.18	115.51	121.47
1	8W	68	MET	CA-C-N	5.18	127.17	120.44
1	8W	68	MET	C-N-CA	5.18	127.17	120.44
1	93	63	GLN	O-C-N	-5.18	116.63	122.12
1	97	108	THR	N-CA-CB	5.18	119.53	110.98
1	9I	221	VAL	CA-C-N	5.18	131.42	122.62
1	9I	221	VAL	C-N-CA	5.18	131.42	122.62
1	9L	162	ARG	N-CA-C	5.18	117.67	111.71
1	9R	173	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	9Y	195	ASN	CB-CA-C	5.18	117.70	109.52
1	a7	112	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	ad	215	MET	CA-C-N	5.18	130.52	122.49
1	ad	215	MET	C-N-CA	5.18	130.52	122.49
1	ag	184	TRP	CB-CG-CD2	5.18	134.05	126.80
1	ai	184	TRP	CE2-CD2-CE3	5.18	123.98	118.80
1	12	92	GLU	N-CA-C	5.18	117.04	109.84
1	12	134	ILE	CA-C-N	5.18	127.08	120.56
1	12	134	ILE	C-N-CA	5.18	127.08	120.56
1	aC	17	PRO	CA-C-N	5.18	127.22	120.28
1	aC	17	PRO	C-N-CA	5.18	127.22	120.28
1	aG	51	ASP	O-C-N	-5.18	116.63	122.12
1	aL	117	TRP	N-CA-C	5.18	117.60	111.33
1	aM	62	HIS	CB-CG-CD2	-5.18	124.47	131.20
1	14	3	VAL	CA-C-N	5.18	131.43	121.54
1	14	3	VAL	C-N-CA	5.18	131.43	121.54
1	aR	86	VAL	CB-CA-C	5.18	119.78	111.29
1	aU	146	SER	CA-C-N	5.18	125.18	119.90
1	aU	146	SER	C-N-CA	5.18	125.18	119.90
1	b0	81	ASP	N-CA-C	5.18	117.00	111.36
1	bq	86	VAL	N-CA-CB	5.18	117.68	111.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bv	5	ASN	CA-CB-CG	-5.18	107.42	112.60
1	bv	177	ALA	O-C-N	-5.18	117.48	123.33
1	bV	37	ILE	CA-C-N	5.18	124.50	118.85
1	bV	37	ILE	C-N-CA	5.18	124.50	118.85
1	1b	162	ARG	CD-NE-CZ	5.18	131.65	124.40
1	c3	52	LEU	O-C-N	5.18	127.48	122.09
1	c3	185	MET	CA-C-O	5.18	126.26	120.82
1	c4	200	THR	CA-CB-OG1	5.18	117.37	109.60
1	cb	12	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	ch	27	VAL	CA-C-O	5.18	125.84	120.25
1	ck	84	HIS	CG-CD2-NE2	5.18	112.38	107.20
1	cn	56	LEU	N-CA-C	-5.18	105.71	111.36
1	cy	105	ALA	N-CA-CB	-5.18	102.03	110.42
1	cB	202	LEU	CA-C-N	5.18	127.22	120.28
1	cB	202	LEU	C-N-CA	5.18	127.22	120.28
1	cC	221	VAL	O-C-N	-5.18	117.12	122.14
1	cD	47	ALA	CA-C-O	5.18	127.83	121.72
1	cR	84	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	d8	155	GLN	CA-C-N	5.18	130.00	121.87
1	d8	155	GLN	C-N-CA	5.18	130.00	121.87
1	d9	133	TRP	CB-CG-CD1	5.18	134.67	126.90
1	dd	145	TYR	CA-C-N	5.18	127.61	120.67
1	dd	145	TYR	C-N-CA	5.18	127.61	120.67
1	de	225	GLY	O-C-N	-5.18	119.08	123.59
1	dg	201	ILE	CB-CA-C	5.18	118.60	111.97
1	dO	50	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	dZ	99	PRO	N-CA-CB	5.18	107.93	103.27
1	es	188	THR	CA-C-N	5.18	127.53	120.54
1	es	188	THR	C-N-CA	5.18	127.53	120.54
1	eC	37	ILE	O-C-N	-5.18	117.11	120.42
1	eG	112	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	eI	148	THR	CA-CB-CG2	5.18	119.31	110.50
1	1t	209	ALA	N-CA-C	5.18	117.21	110.53
1	eQ	53	ASN	CA-CB-CG	-5.18	107.42	112.60
1	eY	5	ASN	CA-CB-CG	5.18	117.78	112.60
1	f7	34	PRO	CA-C-N	5.18	127.94	120.38
1	f7	34	PRO	C-N-CA	5.18	127.94	120.38
1	f8	40	PHE	N-CA-CB	-5.18	102.50	110.12
1	ff	140	LYS	O-C-N	-5.18	116.73	122.07
1	fi	31	ALA	CA-C-O	5.18	127.92	120.51
1	fl	3	VAL	CA-C-N	5.18	132.20	121.32
1	fl	3	VAL	C-N-CA	5.18	132.20	121.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fm	172	LEU	O-C-N	-5.18	116.70	122.09
1	fn	167	ARG	CA-C-N	5.18	127.17	120.44
1	fn	167	ARG	C-N-CA	5.18	127.17	120.44
1	fo	67	GLN	CB-CA-C	-5.18	102.19	110.79
1	fx	98	GLU	O-C-N	-5.18	115.63	121.43
1	fW	145	TYR	CA-CB-CG	-5.18	104.58	113.90
1	g1	222	GLY	CA-C-N	5.18	130.00	121.87
1	g1	222	GLY	C-N-CA	5.18	130.00	121.87
1	1B	227	LYS	O-C-N	-5.18	117.26	123.27
1	g	143	ARG	CA-C-N	5.18	127.22	120.28
1	g	143	ARG	C-N-CA	5.18	127.22	120.28
1	s	8	GLY	N-CA-C	5.18	119.21	112.68
1	x	224	PRO	CA-C-N	-5.18	116.78	122.38
1	x	224	PRO	C-N-CA	-5.18	116.78	122.38
1	A	159	GLU	CB-CA-C	5.18	116.84	109.38
1	3	116	GLY	O-C-N	-5.18	116.64	122.28
1	E	3	VAL	N-CA-C	5.18	116.21	108.54
1	E	201	ILE	O-C-N	-5.18	116.64	121.87
1	N	161	PHE	CA-C-N	5.18	127.53	120.54
1	N	161	PHE	C-N-CA	5.18	127.53	120.54
1	Q	157	PRO	O-C-N	-5.18	116.59	122.18
1	U	203	LYS	O-C-N	-5.18	116.73	122.07
1	V	195	ASN	CA-CB-CG	-5.18	107.42	112.60
1	9	12	HIS	N-CA-CB	5.18	119.51	110.81
1	9	216	THR	CA-CB-OG1	5.18	117.37	109.60
1	gp	66	MET	CG-SD-CE	-5.18	89.51	100.90
1	gD	100	ARG	CD-NE-CZ	5.18	131.65	124.40
1	gI	92	GLU	CB-CG-CD	5.18	121.40	112.60
1	gM	57	ASN	CB-CG-OD1	5.18	131.16	120.80
1	gO	8	GLY	N-CA-C	5.18	119.42	112.17
1	h1	31	ALA	O-C-N	-5.18	115.70	122.59
1	h1	149	SER	CA-C-O	5.18	127.83	121.56
1	hh	128	GLU	O-C-N	-5.18	116.74	122.07
1	hk	175	GLU	N-CA-C	5.18	116.97	110.24
1	hn	70	LYS	CA-C-O	5.18	125.91	120.42
1	hn	224	PRO	O-C-N	-5.18	115.65	122.64
1	hq	81	ASP	CB-CA-C	5.18	119.39	110.79
1	1K	63	GLN	N-CA-C	5.18	116.61	111.07
1	hC	192	GLN	OE1-CD-NE2	5.18	127.78	122.60
1	hH	58	THR	CA-C-N	5.18	128.02	120.98
1	hH	58	THR	C-N-CA	5.18	128.02	120.98
1	hH	86	VAL	O-C-N	-5.18	117.06	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hN	136	LEU	CA-C-N	5.18	125.84	119.99
1	hN	136	LEU	C-N-CA	5.18	125.84	119.99
1	hW	183	ASN	CB-CG-ND2	-5.18	108.63	116.40
1	id	159	GLU	CB-CA-C	5.18	117.00	109.08
1	ie	105	ALA	N-CA-CB	-5.18	101.33	110.39
1	il	69	LEU	N-CA-C	5.18	116.92	111.28
1	1Q	81	ASP	CA-C-N	5.18	127.22	120.28
1	1Q	81	ASP	C-N-CA	5.18	127.22	120.28
1	iy	28	GLU	CA-C-N	5.18	127.17	120.44
1	iy	28	GLU	C-N-CA	5.18	127.17	120.44
1	iG	58	THR	CA-C-O	5.18	125.41	119.35
1	iL	24	VAL	CA-C-O	5.18	126.34	120.85
1	iX	193	ASN	O-C-N	-5.18	115.87	122.34
1	j2	201	ILE	N-CA-C	5.18	115.39	110.42
1	j5	62	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	jA	128	GLU	CB-CG-CD	5.18	121.40	112.60
1	jB	220	GLY	CA-C-O	-5.18	113.27	119.02
1	k5	145	TYR	CA-C-O	5.18	125.95	120.10
1	kl	192	GLN	N-CA-C	5.18	121.83	110.80
1	kA	226	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	kH	4	GLN	N-CA-CB	5.18	119.06	110.47
1	lt	22	ALA	CA-C-N	5.18	127.17	120.44
1	lt	22	ALA	C-N-CA	5.18	127.17	120.44
1	lI	76	GLU	O-C-N	-5.18	116.25	122.15
1	lJ	39	MET	CG-SD-CE	-5.18	89.51	100.90
1	lR	139	ASN	CA-C-N	5.18	127.22	120.28
1	lR	139	ASN	C-N-CA	5.18	127.22	120.28
1	2c	149	SER	N-CA-CB	5.18	119.24	110.49
1	2F	24	VAL	CG1-CB-CG2	-5.18	99.41	110.80
1	2O	142	VAL	CA-CB-CG1	5.18	119.20	110.40
1	30	174	ALA	CA-C-O	5.18	125.91	120.42
1	31	80	TRP	N-CA-C	5.18	116.61	111.07
1	3w	165	VAL	CB-CA-C	-5.18	105.34	111.97
1	3G	16	SER	CA-C-N	5.18	126.31	119.84
1	3G	16	SER	C-N-CA	5.18	126.31	119.84
1	3R	135	ILE	N-CA-C	5.18	115.39	110.42
1	48	102	SER	CA-C-O	5.18	126.04	120.55
1	4a	208	ALA	N-CA-C	-5.18	106.55	112.92
1	4c	92	GLU	N-CA-C	5.18	116.22	109.64
1	4d	106	GLY	CA-C-O	-5.18	113.27	119.02
1	4Q	205	LEU	CA-C-N	5.18	130.00	121.87
1	4Q	205	LEU	C-N-CA	5.18	130.00	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4R	215	MET	CG-SD-CE	-5.18	89.51	100.90
1	53	75	GLU	CA-C-N	5.18	127.74	120.28
1	53	75	GLU	C-N-CA	5.18	127.74	120.28
1	58	115	ILE	O-C-N	-5.18	116.83	121.91
1	5b	108	THR	CA-CB-OG1	5.18	117.37	109.60
1	5H	26	VAL	CA-CB-CG2	-5.18	101.60	110.40
1	5L	209	ALA	O-C-N	5.18	128.88	123.03
1	5Z	221	VAL	O-C-N	-5.18	117.74	123.18
1	60	210	THR	CA-C-N	5.18	127.53	120.54
1	60	210	THR	C-N-CA	5.18	127.53	120.54
1	6b	4	GLN	N-CA-CB	5.18	118.86	110.32
1	6r	24	VAL	CB-CA-C	-5.18	105.30	112.24
1	6H	47	ALA	N-CA-C	5.18	117.74	110.23
1	6M	29	GLU	CA-C-N	5.18	127.64	120.29
1	6M	29	GLU	C-N-CA	5.18	127.64	120.29
1	7B	192	GLN	O-C-N	-5.18	116.74	122.07
1	7W	115	ILE	N-CA-CB	5.18	118.35	110.58
1	7Z	72	THR	CB-CA-C	5.18	119.39	110.79
1	81	62	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	8n	18	ARG	CD-NE-CZ	5.18	131.65	124.40
1	8C	86	VAL	O-C-N	-5.18	117.29	122.62
1	8G	34	PRO	N-CA-C	-5.18	107.30	113.98
1	8G	131	LYS	O-C-N	-5.18	116.25	122.15
1	8J	39	MET	CG-SD-CE	-5.18	89.51	100.90
1	8N	194	ALA	N-CA-C	5.18	117.80	110.50
1	8X	132	ARG	NH1-CZ-NH2	-5.18	112.57	119.30
1	8Y	128	GLU	CA-CB-CG	5.18	124.45	114.10
1	9e	99	PRO	N-CA-C	5.18	119.44	111.21
1	9I	126	VAL	O-C-N	-5.18	115.95	121.80
1	9K	155	GLN	CA-C-N	5.18	129.56	121.64
1	9K	155	GLN	C-N-CA	5.18	129.56	121.64
1	9P	136	LEU	O-C-N	-5.18	116.63	122.12
1	ab	192	GLN	N-CA-C	5.18	121.83	110.80
1	aq	163	ASP	N-CA-C	5.18	116.73	111.14
1	ax	184	TRP	CA-C-N	5.18	127.17	120.44
1	ax	184	TRP	C-N-CA	5.18	127.17	120.44
1	aU	77	ALA	O-C-N	5.18	127.61	122.12
1	aW	118	MET	N-CA-C	5.18	118.38	111.75
1	b6	85	PRO	CA-C-N	5.18	129.48	121.71
1	b6	85	PRO	C-N-CA	5.18	129.48	121.71
1	b6	127	GLY	CA-C-O	5.18	126.38	121.05
1	bd	173	ARG	NE-CZ-NH1	5.18	126.68	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bn	197	ASP	CB-CA-C	-5.18	101.88	110.68
1	br	94	GLY	O-C-N	5.18	127.69	122.77
1	bu	79	GLU	CB-CA-C	5.18	119.39	110.79
1	bw	48	THR	CA-CB-CG2	-5.18	101.70	110.50
1	c0	83	LEU	CA-C-O	5.18	125.75	119.38
1	c4	155	GLN	CA-CB-CG	5.18	124.45	114.10
1	c9	195	ASN	CA-C-N	5.18	126.31	119.84
1	c9	195	ASN	C-N-CA	5.18	126.31	119.84
1	cd	179	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	cp	24	VAL	CA-CB-CG2	-5.18	101.60	110.40
1	cz	93	PRO	CA-C-N	5.18	130.43	122.20
1	cz	93	PRO	C-N-CA	5.18	130.43	122.20
1	1f	164	TYR	CA-C-O	5.18	126.26	120.82
1	cB	98	GLU	CA-C-N	5.18	125.34	119.90
1	cB	98	GLU	C-N-CA	5.18	125.34	119.90
1	dd	225	GLY	CA-C-N	5.18	127.22	120.28
1	dd	225	GLY	C-N-CA	5.18	127.22	120.28
1	dh	177	ALA	CA-C-N	5.18	128.57	120.75
1	dh	177	ALA	C-N-CA	5.18	128.57	120.75
1	dQ	107	THR	OG1-CB-CG2	-5.18	98.94	109.30
1	e5	163	ASP	CA-C-N	5.18	127.22	120.28
1	e5	163	ASP	C-N-CA	5.18	127.22	120.28
1	ex	132	ARG	N-CA-C	5.18	117.32	111.11
1	ez	34	PRO	N-CA-CB	5.18	108.44	103.52
1	eA	199	LYS	CA-C-N	5.18	127.99	120.79
1	eA	199	LYS	C-N-CA	5.18	127.99	120.79
1	eD	226	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	eU	2	ILE	O-C-N	-5.18	117.28	123.03
1	f5	120	HIS	CG-CD2-NE2	5.18	112.38	107.20
1	f9	102	SER	N-CA-CB	5.18	117.73	110.12
1	fa	201	ILE	O-C-N	-5.18	116.84	121.91
1	fw	165	VAL	CA-C-N	5.18	127.22	120.28
1	fw	165	VAL	C-N-CA	5.18	127.22	120.28
1	fB	69	LEU	CB-CA-C	5.18	119.01	110.88
1	d	80	TRP	CB-CG-CD2	5.18	134.05	126.80
1	j	12	HIS	O-C-N	-5.18	116.42	123.15
1	l	104	ILE	N-CA-C	5.18	115.95	110.72
1	r	206	GLY	CA-C-N	5.18	125.17	119.89
1	r	206	GLY	C-N-CA	5.18	125.17	119.89
1	2	177	ALA	N-CA-C	5.18	117.01	110.33
1	K	182	LYS	CA-C-N	5.18	127.17	120.44
1	K	182	LYS	C-N-CA	5.18	127.17	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	T	96	MET	O-C-N	-5.18	116.57	122.89
1	g8	129	ILE	CA-C-N	5.18	127.22	120.28
1	g8	129	ILE	C-N-CA	5.18	127.22	120.28
1	gi	173	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	gs	80	TRP	CD2-CE2-CZ2	-5.18	117.22	122.40
1	gA	109	SER	CB-CA-C	5.18	119.89	109.38
1	gM	36	VAL	CA-CB-CG1	-5.18	101.60	110.40
1	gW	159	GLU	CA-C-O	-5.18	114.62	119.80
1	ha	68	MET	CA-C-N	5.18	127.17	120.44
1	ha	68	MET	C-N-CA	5.18	127.17	120.44
1	1I	226	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	hk	114	GLN	CA-C-O	-5.18	115.36	120.90
1	hn	131	LYS	CA-C-O	5.18	126.04	120.55
1	hq	178	SER	O-C-N	-5.18	116.66	122.97
1	hu	49	PRO	N-CA-C	5.18	123.13	112.47
1	hG	183	ASN	CA-CB-CG	5.18	117.78	112.60
1	hQ	25	LYS	CA-C-N	5.18	127.55	120.46
1	hQ	25	LYS	C-N-CA	5.18	127.55	120.46
1	hW	33	SER	CA-C-O	-5.18	116.21	120.71
1	hZ	153	ILE	N-CA-CB	5.18	116.57	110.82
1	i0	168	PHE	O-C-N	5.18	127.42	122.03
1	1N	96	MET	CA-C-N	5.18	128.43	120.82
1	1N	96	MET	C-N-CA	5.18	128.43	120.82
1	ib	166	ASP	CB-CA-C	5.18	119.08	110.90
1	ip	55	MET	CA-C-O	-5.18	115.04	120.63
1	ip	221	VAL	O-C-N	-5.18	117.30	123.04
1	ir	62	HIS	CB-CG-ND1	-5.18	114.94	122.70
1	is	203	LYS	CA-C-N	5.18	127.73	120.28
1	is	203	LYS	C-N-CA	5.18	127.73	120.28
1	iC	82	ARG	N-CA-C	-5.18	105.32	111.69
1	1S	224	PRO	N-CA-CB	5.18	108.16	103.34
1	iX	78	ALA	N-CA-C	5.18	116.92	111.28
1	j4	133	TRP	O-C-N	-5.18	115.90	122.27
1	jb	119	THR	N-CA-CB	5.18	118.36	110.44
1	1U	114	GLN	O-C-N	-5.18	116.63	122.12
1	jj	217	ALA	CA-C-O	-5.18	113.11	120.51
1	jo	228	ALA	N-CA-C	5.18	121.83	110.80
1	jq	84	HIS	CB-CA-C	-5.18	103.87	111.01
1	jA	161	PHE	N-CA-CB	5.18	119.24	110.49
1	jB	105	ALA	O-C-N	-5.18	115.23	122.37
1	jC	31	ALA	CA-C-O	5.18	127.91	120.51
1	jC	171	THR	OG1-CB-CG2	-5.18	98.95	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jE	101	GLY	CA-C-N	5.18	127.22	120.28
1	jE	101	GLY	C-N-CA	5.18	127.22	120.28
1	k7	189	LEU	N-CA-C	5.18	117.66	111.71
1	ki	27	VAL	CA-C-N	5.18	127.53	120.54
1	ki	27	VAL	C-N-CA	5.18	127.53	120.54
1	kn	103	ASP	CA-C-O	-5.18	114.93	120.42
1	ko	68	MET	CA-C-N	5.18	127.17	120.44
1	ko	68	MET	C-N-CA	5.18	127.17	120.44
1	kp	109	SER	O-C-N	-5.18	117.14	123.30
1	kA	126	VAL	N-CA-C	5.18	115.90	110.62
1	24	15	ILE	N-CA-C	5.18	115.92	108.93
1	24	22	ALA	O-C-N	-5.18	116.74	122.07
1	l4	62	HIS	ND1-CE1-NE2	5.18	113.58	108.40
1	l5	223	GLY	O-C-N	-5.18	117.76	122.42
1	lh	32	PHE	CA-C-O	5.18	126.59	120.69
1	lq	9	GLN	O-C-N	5.18	128.81	122.75
1	lG	192	GLN	O-C-N	-5.18	114.67	122.28
1	lH	71	GLU	CB-CG-CD	5.18	121.40	112.60
1	lK	3	VAL	CA-C-O	5.18	125.85	120.36
1	lP	63	GLN	O-C-N	-5.18	115.66	122.39
1	lR	12	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	2k	19	THR	CB-CA-C	-5.18	102.20	110.79
1	2m	174	ALA	CA-C-N	5.18	129.07	120.94
1	2m	174	ALA	C-N-CA	5.18	129.07	120.94
1	2A	188	THR	O-C-N	-5.18	116.71	122.09
1	2D	25	LYS	CA-C-N	5.18	127.28	120.60
1	2D	25	LYS	C-N-CA	5.18	127.28	120.60
1	2D	39	MET	N-CA-CB	5.18	117.52	110.01
1	2G	179	GLN	CA-C-N	5.18	127.22	120.28
1	2G	179	GLN	C-N-CA	5.18	127.22	120.28
1	2P	10	MET	N-CA-C	5.18	118.38	111.24
1	36	148	THR	O-C-N	-5.18	116.75	122.86
1	38	37	ILE	CA-C-N	5.18	124.68	119.19
1	38	37	ILE	C-N-CA	5.18	124.68	119.19
1	3a	99	PRO	N-CA-CB	-5.18	99.16	103.30
1	3z	75	GLU	CA-C-N	5.18	127.17	120.44
1	3z	75	GLU	C-N-CA	5.18	127.17	120.44
1	3A	158	LYS	CA-C-N	5.18	127.58	120.39
1	3A	158	LYS	C-N-CA	5.18	127.58	120.39
1	3C	126	VAL	CA-CB-CG2	-5.18	101.60	110.40
1	3L	129	ILE	O-C-N	-5.18	116.76	121.94
1	3V	219	GLN	CA-C-O	-5.18	115.06	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	42	112	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	49	117	TRP	CG-CD2-CE3	-5.18	128.72	133.90
1	4p	177	ALA	CA-C-N	5.18	128.43	120.82
1	4p	177	ALA	C-N-CA	5.18	128.43	120.82
1	4q	105	ALA	CA-C-N	5.18	127.93	120.11
1	4q	105	ALA	C-N-CA	5.18	127.93	120.11
1	4q	182	LYS	CB-CG-CD	5.18	123.21	111.30
1	4r	96	MET	CA-C-N	5.18	128.56	120.75
1	4r	96	MET	C-N-CA	5.18	128.56	120.75
1	4x	121	ASN	CA-C-O	-5.18	113.02	119.54
1	4y	45	GLU	N-CA-C	5.18	116.69	108.67
1	4B	162	ARG	CG-CD-NE	-5.18	100.61	112.00
1	4D	211	LEU	N-CA-C	5.18	117.66	111.71
1	4G	94	GLY	N-CA-C	-5.18	107.55	115.00
1	4Q	211	LEU	O-C-N	-5.18	116.71	122.09
1	4W	165	VAL	CA-C-N	5.18	127.64	120.29
1	4W	165	VAL	C-N-CA	5.18	127.64	120.29
1	54	177	ALA	CA-C-N	5.18	131.43	121.54
1	54	177	ALA	C-N-CA	5.18	131.43	121.54
1	57	55	MET	N-CA-CB	-5.18	102.51	110.12
1	5h	53	ASN	CA-CB-CG	-5.18	107.42	112.60
1	5E	224	PRO	O-C-N	-5.18	116.64	122.91
1	5L	156	GLY	CA-C-N	5.18	124.49	118.85
1	5L	156	GLY	C-N-CA	5.18	124.49	118.85
1	5O	202	LEU	CA-C-N	5.18	127.22	120.28
1	5O	202	LEU	C-N-CA	5.18	127.22	120.28
1	5T	126	VAL	N-CA-CB	5.18	116.61	110.55
1	5V	193	ASN	CA-CB-CG	-5.18	107.42	112.60
1	5X	124	ILE	CB-CG1-CD1	5.18	124.67	113.80
1	62	13	GLN	O-C-N	-5.18	117.35	123.41
1	64	7	GLN	N-CA-C	5.18	117.94	110.28
1	68	88	ALA	CA-C-O	5.18	125.48	119.32
1	6i	71	GLU	CB-CG-CD	5.18	121.40	112.60
1	6K	75	GLU	N-CA-C	5.18	117.32	111.11
1	6U	51	ASP	N-CA-C	5.18	117.32	111.11
1	6Y	12	HIS	CA-CB-CG	5.18	118.98	113.80
1	6Z	129	ILE	O-C-N	-5.18	116.85	121.87
1	72	121	ASN	O-C-N	-5.18	114.73	121.10
1	73	202	LEU	CA-C-O	5.18	127.91	120.51
1	77	92	GLU	CA-C-N	5.18	125.18	119.90
1	77	92	GLU	C-N-CA	5.18	125.18	119.90
1	7a	159	GLU	CA-C-N	5.18	126.31	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7a	159	GLU	C-N-CA	5.18	126.31	119.84
1	7z	31	ALA	N-CA-C	5.18	117.31	108.67
1	7G	137	GLY	CA-C-N	5.18	127.73	120.28
1	7G	137	GLY	C-N-CA	5.18	127.73	120.28
1	85	55	MET	CA-CB-CG	-5.18	103.75	114.10
1	8a	120	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	8i	24	VAL	O-C-N	-5.18	116.84	121.91
1	8k	120	HIS	CA-CB-CG	-5.18	108.62	113.80
1	8k	226	HIS	CA-CB-CG	5.18	118.98	113.80
1	8q	132	ARG	NE-CZ-NH2	-5.18	114.54	119.20
1	8G	194	ALA	N-CA-C	5.18	117.21	110.53
1	8P	176	GLN	O-C-N	-5.18	116.82	122.67
1	93	85	PRO	CB-CA-C	5.18	120.10	111.56
1	94	87	HIS	CG-CD2-NE2	5.18	112.38	107.20
1	9e	194	ALA	N-CA-C	-5.18	103.85	110.53
1	9g	214	MET	O-C-N	-5.18	115.90	122.27
1	9r	115	ILE	N-CA-C	-5.18	105.45	110.42
1	9M	113	GLU	CA-C-N	5.18	127.22	120.28
1	9M	113	GLU	C-N-CA	5.18	127.22	120.28
1	9Z	184	TRP	O-C-N	-5.18	116.25	122.15
1	a0	211	LEU	CA-C-N	5.18	127.22	120.28
1	a0	211	LEU	C-N-CA	5.18	127.22	120.28
1	a2	128	GLU	N-CA-C	5.18	116.92	111.28
1	a8	173	ARG	CA-C-N	5.18	127.22	120.28
1	a8	173	ARG	C-N-CA	5.18	127.22	120.28
1	ag	172	LEU	CA-C-O	5.18	125.33	119.27
1	aj	23	TRP	CB-CG-CD1	-5.18	119.14	126.90
1	ar	142	VAL	N-CA-C	5.18	115.39	110.42
1	ar	192	GLN	N-CA-C	5.18	117.00	111.36
1	au	87	HIS	CE1-NE2-CD2	-5.18	103.82	109.00
1	aA	230	VAL	N-CA-CB	-5.18	103.94	110.31
1	aD	32	PHE	N-CA-C	5.18	121.83	110.80
1	14	83	LEU	O-C-N	-5.18	116.63	122.12
1	aR	69	LEU	CA-C-N	5.18	127.22	120.28
1	aR	69	LEU	C-N-CA	5.18	127.22	120.28
1	aW	128	GLU	CA-C-O	5.18	125.95	120.10
1	aX	224	PRO	N-CA-C	5.18	123.13	112.47
1	b7	32	PHE	CA-CB-CG	-5.18	108.62	113.80
1	bb	98	GLU	O-C-N	-5.18	116.69	121.30
1	bg	191	VAL	N-CA-C	-5.18	105.66	110.53
1	br	222	GLY	N-CA-C	5.18	121.66	112.55
1	bt	9	GLN	CA-C-O	-5.18	116.06	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bt	156	GLY	O-C-N	-5.18	117.76	122.42
1	bt	226	HIS	N-CA-CB	-5.18	101.80	110.39
1	bF	151	LEU	N-CA-C	5.18	117.00	111.36
1	bJ	42	ALA	O-C-N	-5.18	115.90	122.27
1	bL	211	LEU	N-CA-CB	5.18	117.73	110.12
1	bO	165	VAL	CG1-CB-CG2	-5.18	99.41	110.80
1	c3	144	MET	N-CA-C	5.18	117.66	111.71
1	c4	68	MET	CA-C-N	5.18	127.17	120.44
1	c4	68	MET	C-N-CA	5.18	127.17	120.44
1	1c	191	VAL	CA-C-N	5.18	127.53	120.54
1	1c	191	VAL	C-N-CA	5.18	127.53	120.54
1	cg	112	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	cl	132	ARG	NH1-CZ-NH2	-5.18	112.57	119.30
1	cn	23	TRP	CE2-CD2-CE3	5.18	123.98	118.80
1	1e	187	GLU	N-CA-CB	-5.18	102.56	110.07
1	cz	110	THR	N-CA-CB	5.18	118.29	110.42
1	cB	143	ARG	NH1-CZ-NH2	-5.18	112.57	119.30
1	cC	42	ALA	CA-C-O	5.18	126.22	120.63
1	cE	3	VAL	CA-CB-CG1	-5.18	101.60	110.40
1	1g	86	VAL	CA-CB-CG1	5.18	119.20	110.40
1	cM	165	VAL	CA-C-N	5.18	127.22	120.28
1	cM	165	VAL	C-N-CA	5.18	127.22	120.28
1	cT	150	ILE	CA-C-N	5.18	129.36	120.72
1	cT	150	ILE	C-N-CA	5.18	129.36	120.72
1	d0	114	GLN	OE1-CD-NE2	-5.18	117.42	122.60
1	d3	29	GLU	N-CA-C	5.18	119.95	113.43
1	d5	171	THR	CA-C-N	5.18	127.64	120.29
1	d5	171	THR	C-N-CA	5.18	127.64	120.29
1	d5	223	GLY	CA-C-O	-5.18	116.19	121.62
1	dm	103	ASP	CA-C-N	5.18	127.55	120.46
1	dm	103	ASP	C-N-CA	5.18	127.55	120.46
1	dn	26	VAL	O-C-N	5.18	127.16	121.83
1	dn	158	LYS	N-CA-C	5.18	116.92	111.28
1	du	41	SER	CB-CA-C	-5.18	102.72	110.90
1	dx	216	THR	CA-C-N	5.18	127.94	120.38
1	dx	216	THR	C-N-CA	5.18	127.94	120.38
1	dF	80	TRP	CA-C-N	5.18	127.22	120.28
1	dF	80	TRP	C-N-CA	5.18	127.22	120.28
1	dH	7	GLN	O-C-N	-5.18	117.15	123.10
1	dL	59	VAL	CA-CB-CG1	5.18	119.20	110.40
1	dN	148	THR	CA-C-O	5.18	127.91	120.51
1	e9	51	ASP	CA-C-N	5.18	127.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e9	51	ASP	C-N-CA	5.18	127.22	120.28
1	1p	66	MET	CA-C-O	5.18	126.04	120.55
1	ek	111	LEU	O-C-N	-5.18	115.90	122.27
1	em	47	ALA	O-C-N	-5.18	117.18	123.29
1	en	24	VAL	CA-C-N	5.18	127.17	120.44
1	en	24	VAL	C-N-CA	5.18	127.17	120.44
1	eB	48	THR	N-CA-C	-5.18	104.18	110.13
1	eC	120	HIS	CA-CB-CG	5.18	118.98	113.80
1	eR	183	ASN	CB-CA-C	-5.18	102.75	110.88
1	f2	51	ASP	CA-C-N	5.18	127.64	120.29
1	f2	51	ASP	C-N-CA	5.18	127.64	120.29
1	f2	214	MET	N-CA-C	5.18	117.32	111.11
1	f3	172	LEU	O-C-N	-5.18	116.63	122.12
1	f8	213	GLU	CA-C-N	5.18	128.18	120.31
1	f8	213	GLU	C-N-CA	5.18	128.18	120.31
1	fc	45	GLU	CA-C-N	5.18	129.78	120.77
1	fc	45	GLU	C-N-CA	5.18	129.78	120.77
1	fd	40	PHE	CA-CB-CG	5.18	118.98	113.80
1	ff	82	ARG	CA-C-N	5.18	128.18	120.31
1	ff	82	ARG	C-N-CA	5.18	128.18	120.31
1	fh	44	SER	N-CA-C	5.18	119.29	112.92
1	fk	22	ALA	N-CA-CB	-5.18	102.26	110.28
1	fs	136	LEU	CA-C-O	5.18	126.04	120.55
1	fL	129	ILE	CA-C-N	5.18	127.64	120.29
1	fL	129	ILE	C-N-CA	5.18	127.64	120.29
1	fM	154	ARG	O-C-N	-5.18	117.68	123.48
1	1A	130	TYR	CA-C-O	-5.18	115.38	121.07
1	b	171	THR	CA-C-O	-5.18	115.06	120.55
1	e	136	LEU	CA-C-O	-5.18	115.36	120.90
1	e	222	GLY	O-C-N	-5.18	117.83	122.96
1	g	88	ALA	N-CA-C	5.18	117.57	108.56
1	1	218	CYS	CA-C-O	5.18	125.96	119.59
1	w	163	ASP	CA-C-N	5.18	127.53	120.54
1	w	163	ASP	C-N-CA	5.18	127.53	120.54
1	N	195	ASN	CB-CA-C	5.18	118.82	109.45
1	gd	159	GLU	CA-C-N	5.17	126.31	119.84
1	gd	159	GLU	C-N-CA	5.17	126.31	119.84
1	gi	141	ILE	CA-CB-CG2	5.17	119.30	110.50
1	gj	150	ILE	CA-C-N	5.17	127.47	120.38
1	gj	150	ILE	C-N-CA	5.17	127.47	120.38
1	gs	25	LYS	O-C-N	-5.17	116.16	122.11
1	gt	185	MET	CG-SD-CE	-5.17	89.52	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gv	109	SER	N-CA-C	5.17	117.86	109.06
1	gw	140	LYS	O-C-N	-5.17	116.74	122.07
1	gx	230	VAL	O-C-N	-5.17	117.29	122.62
1	gE	228	ALA	N-CA-C	5.17	121.82	110.80
1	h3	73	ILE	CA-C-O	5.17	126.33	120.85
1	1H	55	MET	CA-C-N	5.17	127.48	120.44
1	1H	55	MET	C-N-CA	5.17	127.48	120.44
1	1H	214	MET	N-CA-C	5.17	116.92	111.28
1	he	50	GLN	O-C-N	-5.17	116.74	122.07
1	he	223	GLY	CA-C-N	5.17	126.31	119.84
1	he	223	GLY	C-N-CA	5.17	126.31	119.84
1	ho	163	ASP	CA-CB-CG	5.17	117.77	112.60
1	hI	168	PHE	CA-CB-CG	-5.17	108.63	113.80
1	1M	58	THR	N-CA-C	5.17	116.73	111.14
1	hV	165	VAL	CG1-CB-CG2	5.17	122.18	110.80
1	hZ	69	LEU	N-CA-C	5.17	116.92	111.28
1	i0	145	TYR	O-C-N	-5.17	115.68	122.20
1	i7	51	ASP	N-CA-CB	5.17	117.51	110.01
1	i8	141	ILE	CA-C-O	-5.17	115.57	120.95
1	ic	88	ALA	N-CA-CB	-5.17	102.68	111.27
1	ii	100	ARG	NH1-CZ-NH2	-5.17	112.57	119.30
1	iw	154	ARG	NE-CZ-NH2	-5.17	114.54	119.20
1	iz	154	ARG	O-C-N	-5.17	116.66	123.28
1	iz	159	GLU	O-C-N	-5.17	115.64	121.43
1	iA	116	GLY	CA-C-N	5.17	127.22	120.28
1	iA	116	GLY	C-N-CA	5.17	127.22	120.28
1	iF	74	ASN	OD1-CG-ND2	-5.17	117.42	122.60
1	iH	158	LYS	CA-C-O	5.17	125.05	119.15
1	iN	133	TRP	CG-CD2-CE3	5.17	139.07	133.90
1	1S	19	THR	CA-C-N	5.17	127.48	120.44
1	1S	19	THR	C-N-CA	5.17	127.48	120.44
1	iW	134	ILE	N-CA-C	5.17	115.90	110.62
1	1T	152	ASP	CA-CB-CG	-5.17	107.43	112.60
1	jb	50	GLN	CA-C-N	5.17	127.17	120.44
1	jb	50	GLN	C-N-CA	5.17	127.17	120.44
1	jk	117	TRP	CA-C-N	5.17	127.17	120.44
1	jk	117	TRP	C-N-CA	5.17	127.17	120.44
1	jl	203	LYS	O-C-N	-5.17	116.64	122.12
1	jz	69	LEU	CA-C-O	5.17	126.03	120.55
1	jB	87	HIS	ND1-CG-CD2	-5.17	100.93	106.10
1	jK	139	ASN	CA-C-O	5.17	126.04	120.55
1	jK	206	GLY	CA-C-N	5.17	125.47	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jK	206	GLY	C-N-CA	5.17	125.47	119.47
1	jO	195	ASN	O-C-N	-5.17	116.11	121.60
1	1Y	79	GLU	CA-C-O	5.17	126.25	120.82
1	jW	97	ARG	NE-CZ-NH2	5.17	123.86	119.20
1	jW	166	ASP	CA-C-O	5.17	126.44	120.90
1	k5	223	GLY	CA-C-N	5.17	125.17	119.89
1	k5	223	GLY	C-N-CA	5.17	125.17	119.89
1	k9	120	HIS	CG-CD2-NE2	5.17	112.38	107.20
1	kd	57	ASN	N-CA-C	5.17	117.66	111.71
1	kg	183	ASN	CA-CB-CG	-5.17	107.43	112.60
1	kg	226	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	kU	136	LEU	N-CA-C	-5.17	105.64	111.28
1	kV	71	GLU	N-CA-C	5.17	116.92	111.28
1	kX	87	HIS	CA-CB-CG	-5.17	108.62	113.80
1	kZ	216	THR	N-CA-CB	5.17	117.82	110.16
1	26	87	HIS	CA-CB-CG	5.17	118.97	113.80
1	ld	163	ASP	O-C-N	-5.17	116.74	122.07
1	lh	39	MET	O-C-N	-5.17	116.50	122.09
1	lt	4	GLN	CB-CG-CD	5.17	121.40	112.60
1	lv	152	ASP	N-CA-CB	-5.17	102.04	110.42
1	lD	229	ARG	CA-C-O	-5.17	115.02	120.92
1	lF	12	HIS	O-C-N	-5.17	117.17	123.27
1	lF	134	ILE	CA-C-N	5.17	127.08	120.56
1	lF	134	ILE	C-N-CA	5.17	127.08	120.56
1	lJ	167	ARG	CA-C-O	5.17	125.92	119.97
1	2a	76	GLU	N-CA-C	5.17	119.65	113.23
1	lO	4	GLN	O-C-N	-5.17	116.58	122.89
1	2n	109	SER	O-C-N	-5.17	117.18	123.29
1	2q	217	ALA	O-C-N	-5.17	117.14	122.94
1	2y	30	LYS	N-CA-C	-5.17	106.93	114.12
1	2K	32	PHE	N-CA-CB	5.17	118.06	109.88
1	2N	12	HIS	CB-CG-ND1	5.17	130.46	122.70
1	2X	171	THR	CA-C-N	5.17	127.21	120.28
1	2X	171	THR	C-N-CA	5.17	127.21	120.28
1	2Y	184	TRP	CA-C-N	5.17	127.21	120.28
1	2Y	184	TRP	C-N-CA	5.17	127.21	120.28
1	33	171	THR	OG1-CB-CG2	-5.17	98.95	109.30
1	3b	229	ARG	NE-CZ-NH2	-5.17	114.54	119.20
1	3m	226	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	3E	147	PRO	CA-N-CD	-5.17	104.76	112.00
1	3G	131	LYS	N-CA-C	5.17	116.61	111.07
1	3N	167	ARG	CA-C-N	5.17	127.17	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3N	167	ARG	C-N-CA	5.17	127.17	120.44
1	3W	166	ASP	O-C-N	-5.17	116.64	122.12
1	47	144	MET	N-CA-C	5.17	117.66	111.71
1	49	176	GLN	CA-C-O	-5.17	114.69	120.54
1	4b	3	VAL	N-CA-C	5.17	116.31	108.96
1	4h	114	GLN	CA-C-N	5.17	127.55	120.46
1	4h	114	GLN	C-N-CA	5.17	127.55	120.46
1	4q	53	ASN	CA-C-N	5.17	127.17	120.44
1	4q	53	ASN	C-N-CA	5.17	127.17	120.44
1	4r	150	ILE	O-C-N	-5.17	117.12	122.14
1	4x	159	GLU	CB-CG-CD	-5.17	103.80	112.60
1	4A	229	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	4B	21	ASN	CA-CB-CG	-5.17	107.43	112.60
1	4E	121	ASN	O-C-N	-5.17	114.73	121.10
1	4P	226	HIS	N-CA-C	5.17	118.14	110.48
1	4U	87	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	4V	177	ALA	N-CA-C	5.17	121.82	110.80
1	4W	63	GLN	N-CA-C	5.17	117.59	111.33
1	52	145	TYR	CA-C-N	5.17	127.61	120.67
1	52	145	TYR	C-N-CA	5.17	127.61	120.67
1	53	133	TRP	CA-C-O	5.17	126.44	120.90
1	58	106	GLY	N-CA-C	-5.17	107.38	114.67
1	5b	72	THR	N-CA-C	5.17	117.32	111.11
1	5c	37	ILE	CA-C-N	5.17	124.68	119.19
1	5c	37	ILE	C-N-CA	5.17	124.68	119.19
1	5e	118	MET	CA-C-O	5.17	125.72	119.31
1	5n	111	LEU	O-C-N	-5.17	115.90	122.27
1	5A	87	HIS	CA-CB-CG	-5.17	108.62	113.80
1	5K	149	SER	N-CA-C	5.17	117.54	110.24
1	5Q	66	MET	N-CA-C	5.17	116.92	111.28
1	5R	133	TRP	N-CA-CB	5.17	117.73	110.12
1	5R	186	THR	CA-CB-CG2	5.17	119.30	110.50
1	5S	161	PHE	O-C-N	-5.17	116.25	122.15
1	5X	138	LEU	O-C-N	-5.17	116.64	122.12
1	6a	149	SER	N-CA-CB	5.17	119.23	110.49
1	6m	100	ARG	O-C-N	-5.17	116.34	122.65
1	72	160	PRO	CA-C-N	5.17	127.53	120.54
1	72	160	PRO	C-N-CA	5.17	127.53	120.54
1	72	195	ASN	O-C-N	5.17	125.91	121.30
1	7b	71	GLU	O-C-N	-5.17	116.17	122.22
1	7d	139	ASN	OD1-CG-ND2	-5.17	117.42	122.60
1	7g	162	ARG	CA-C-N	5.17	127.22	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7g	162	ARG	C-N-CA	5.17	127.22	120.28
1	7I	54	THR	O-C-N	-5.17	116.64	122.12
1	7U	16	SER	CA-C-N	5.17	124.97	119.28
1	7U	16	SER	C-N-CA	5.17	124.97	119.28
1	7V	83	LEU	CA-C-N	5.17	127.69	120.65
1	7V	83	LEU	C-N-CA	5.17	127.69	120.65
1	83	103	ASP	CA-CB-CG	5.17	117.77	112.60
1	86	7	GLN	N-CA-CB	5.17	119.23	110.49
1	87	163	ASP	O-C-N	-5.17	115.56	122.49
1	8a	217	ALA	O-C-N	-5.17	116.34	122.65
1	8q	230	VAL	N-CA-C	5.17	115.77	109.30
1	8s	128	GLU	N-CA-C	5.17	117.32	111.11
1	8z	172	LEU	N-CA-C	5.17	116.92	111.28
1	8B	62	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	8I	36	VAL	CA-CB-CG1	5.17	119.20	110.40
1	8I	156	GLY	CA-C-N	5.17	124.62	119.24
1	8I	156	GLY	C-N-CA	5.17	124.62	119.24
1	97	74	ASN	CB-CG-ND2	-5.17	108.64	116.40
1	9h	195	ASN	CA-CB-CG	5.17	117.78	112.60
1	9i	37	ILE	O-C-N	-5.17	117.11	120.42
1	9k	183	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	9l	176	GLN	O-C-N	-5.17	114.98	121.97
1	9n	23	TRP	CG-CD2-CE3	5.17	139.07	133.90
1	9n	81	ASP	CA-C-O	5.17	126.76	121.07
1	9r	100	ARG	NE-CZ-NH2	-5.17	114.54	119.20
1	9u	141	ILE	CA-C-O	5.17	126.33	120.95
1	9A	24	VAL	N-CA-C	5.17	116.52	110.62
1	9D	147	PRO	N-CA-CB	-5.17	96.65	101.88
1	9F	54	THR	N-CA-CB	5.17	117.73	110.12
1	9M	22	ALA	CA-C-N	5.17	127.17	120.44
1	9M	22	ALA	C-N-CA	5.17	127.17	120.44
1	9O	213	GLU	N-CA-C	5.17	117.00	111.36
1	9W	10	MET	N-CA-CB	5.17	119.23	110.49
1	9Z	173	ARG	NH1-CZ-NH2	-5.17	112.57	119.30
1	a2	71	GLU	N-CA-CB	5.17	117.82	110.16
1	a7	82	ARG	CG-CD-NE	-5.17	100.61	112.00
1	10	27	VAL	O-C-N	-5.17	116.84	121.91
1	ak	144	MET	CA-C-O	5.17	126.25	120.82
1	au	183	ASN	O-C-N	-5.17	116.25	122.15
1	aA	97	ARG	O-C-N	-5.17	116.58	122.68
1	13	4	GLN	CA-C-O	-5.17	115.11	120.70
1	aG	179	GLN	CA-C-O	5.17	126.25	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aI	170	LYS	N-CA-C	5.17	116.61	111.07
1	aL	154	ARG	N-CA-C	5.17	117.80	110.50
1	aW	64	ALA	N-CA-C	5.17	116.92	111.28
1	aY	82	ARG	CA-C-N	5.17	127.17	120.44
1	aY	82	ARG	C-N-CA	5.17	127.17	120.44
1	b1	177	ALA	N-CA-CB	-5.17	101.89	111.52
1	b3	161	PHE	CA-C-O	5.17	125.73	119.31
1	b6	155	GLN	OE1-CD-NE2	-5.17	117.42	122.60
1	ba	95	GLN	CG-CD-OE1	5.17	131.15	120.80
1	bf	198	CYS	N-CA-C	5.17	116.61	111.07
1	bj	78	ALA	CA-C-N	5.17	127.64	120.29
1	bj	78	ALA	C-N-CA	5.17	127.64	120.29
1	bn	25	LYS	CA-C-N	5.17	127.08	120.56
1	bn	25	LYS	C-N-CA	5.17	127.08	120.56
1	bq	185	MET	CG-SD-CE	-5.17	89.52	100.90
1	bw	80	TRP	CA-C-O	-5.17	115.06	120.55
1	bB	40	PHE	O-C-N	-5.17	116.74	122.07
1	bG	183	ASN	CA-C-O	-5.17	115.39	120.82
1	bM	68	MET	CA-C-N	5.17	127.21	120.28
1	bM	68	MET	C-N-CA	5.17	127.21	120.28
1	bQ	181	VAL	O-C-N	-5.17	116.84	121.91
1	bR	32	PHE	N-CA-CB	5.17	118.06	109.88
1	bW	223	GLY	N-CA-C	5.17	122.89	112.34
1	c1	210	THR	CA-CB-OG1	5.17	117.36	109.60
1	cc	58	THR	O-C-N	-5.17	114.87	122.43
1	1d	20	LEU	CA-C-O	5.17	125.91	120.42
1	1e	126	VAL	O-C-N	-5.17	116.82	121.89
1	cu	3	VAL	CA-CB-CG1	5.17	119.20	110.40
1	cG	106	GLY	N-CA-C	-5.17	106.59	115.08
1	cM	172	LEU	CA-C-O	5.17	126.03	120.55
1	cQ	166	ASP	N-CA-CB	-5.17	102.51	110.12
1	cR	141	ILE	CA-C-N	5.17	131.28	121.97
1	cR	141	ILE	C-N-CA	5.17	131.28	121.97
1	1h	134	ILE	CA-C-N	5.17	127.55	120.46
1	1h	134	ILE	C-N-CA	5.17	127.55	120.46
1	cX	182	LYS	CB-CG-CD	5.17	123.20	111.30
1	dc	117	TRP	O-C-N	5.17	127.68	122.09
1	1j	100	ARG	NE-CZ-NH1	-5.17	116.33	121.50
1	de	28	GLU	CA-C-O	-5.17	114.25	120.10
1	df	34	PRO	N-CA-C	-5.17	107.99	114.20
1	dg	38	PRO	N-CA-C	5.17	123.13	112.47
1	dl	100	ARG	CB-CG-CD	5.17	123.20	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dm	62	HIS	O-C-N	-5.17	116.13	122.55
1	do	208	ALA	CB-CA-C	-5.17	102.40	110.94
1	dp	62	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	dq	173	ARG	N-CA-CB	5.17	117.82	110.16
1	dw	69	LEU	N-CA-CB	-5.17	102.51	110.12
1	dD	119	THR	CA-CB-OG1	5.17	117.36	109.60
1	dG	132	ARG	O-C-N	-5.17	116.25	122.15
1	dM	84	HIS	CB-CG-CD2	5.17	137.93	131.20
1	dP	141	ILE	CA-C-O	5.17	126.06	120.47
1	e9	64	ALA	O-C-N	-5.17	116.25	122.15
1	eh	103	ASP	CA-CB-CG	5.17	117.78	112.60
1	ei	175	GLU	CB-CG-CD	5.17	121.40	112.60
1	er	87	HIS	CB-CA-C	-5.17	101.81	110.19
1	et	99	PRO	N-CA-C	5.17	118.61	110.80
1	et	120	HIS	CB-CG-ND1	-5.17	114.94	122.70
1	eA	108	THR	CA-CB-OG1	5.17	117.36	109.60
1	eF	18	ARG	N-CA-C	5.17	117.00	111.36
1	eG	136	LEU	CA-C-O	5.17	126.04	120.55
1	eJ	63	GLN	CB-CG-CD	-5.17	103.81	112.60
1	1t	84	HIS	CA-CB-CG	-5.17	108.62	113.80
1	eT	131	LYS	O-C-N	-5.17	116.64	122.12
1	eZ	116	GLY	CA-C-N	5.17	127.21	120.28
1	eZ	116	GLY	C-N-CA	5.17	127.21	120.28
1	f0	58	THR	O-C-N	-5.17	115.23	122.37
1	fi	126	VAL	O-C-N	-5.17	116.16	122.06
1	fu	74	ASN	CA-C-O	5.17	126.03	120.55
1	fu	157	PRO	O-C-N	-5.17	115.76	122.23
1	fx	215	MET	CG-SD-CE	-5.17	89.52	100.90
1	fD	87	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	fG	221	VAL	N-CA-CB	-5.17	100.36	110.45
1	fO	84	HIS	ND1-CE1-NE2	5.17	113.58	108.40
1	fV	72	THR	O-C-N	5.17	127.61	122.12
1	fW	226	HIS	O-C-N	-5.17	117.19	123.29
1	k	37	ILE	N-CA-C	5.17	120.06	108.88
1	y	152	ASP	CA-CB-CG	-5.17	107.42	112.60
1	C	161	PHE	CA-C-N	5.17	127.64	120.29
1	C	161	PHE	C-N-CA	5.17	127.64	120.29
1	C	172	LEU	CA-C-N	5.17	127.17	120.44
1	C	172	LEU	C-N-CA	5.17	127.17	120.44
1	D	25	LYS	CB-CG-CD	5.17	123.20	111.30
1	D	105	ALA	CA-C-O	5.17	125.90	119.12
1	E	184	TRP	CA-CB-CG	5.17	123.43	113.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	159	GLU	CA-C-O	-5.17	114.83	119.59
1	L	214	MET	CG-SD-CE	-5.17	89.52	100.90
1	P	95	GLN	N-CA-CB	5.17	118.63	110.56
1	R	226	HIS	ND1-CE1-NE2	5.17	113.58	108.40
1	S	82	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	8	167	ARG	CA-CB-CG	5.17	124.45	114.10
1	gc	113	GLU	N-CA-C	-5.17	105.71	112.23
1	gy	131	LYS	O-C-N	-5.17	116.64	122.12
1	gB	8	GLY	N-CA-C	5.17	125.44	113.18
1	gD	36	VAL	CG1-CB-CG2	-5.17	99.42	110.80
1	gR	100	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	h1	79	GLU	O-C-N	-5.17	116.64	122.12
1	hj	64	ALA	CA-C-O	5.17	125.90	120.42
1	1J	188	THR	CA-C-O	-5.17	115.37	120.70
1	ht	155	GLN	N-CA-CB	-5.17	102.02	109.83
1	hu	131	LYS	CG-CD-CE	5.17	123.20	111.30
1	hF	171	THR	CA-C-N	5.17	127.17	120.44
1	hF	171	THR	C-N-CA	5.17	127.17	120.44
1	hL	15	ILE	O-C-N	5.17	128.25	122.61
1	i4	84	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	if	154	ARG	N-CA-CB	5.17	119.43	111.46
1	1P	14	ALA	N-CA-C	5.17	117.53	110.24
1	1P	143	ARG	N-CA-CB	-5.17	102.52	110.12
1	1P	227	LYS	CB-CA-C	5.17	118.65	109.65
1	it	27	VAL	N-CA-C	5.17	115.39	110.42
1	iK	19	THR	CA-CB-CG2	5.17	119.29	110.50
1	iP	182	LYS	O-C-N	-5.17	116.64	122.12
1	iV	82	ARG	N-CA-C	5.17	117.82	111.82
1	jh	188	THR	N-CA-CB	5.17	119.23	110.49
1	jl	207	PRO	CB-CA-C	5.17	117.56	110.52
1	jH	166	ASP	CB-CG-OD2	-5.17	106.50	118.40
1	jL	130	TYR	CA-C-N	5.17	127.52	120.54
1	jL	130	TYR	C-N-CA	5.17	127.52	120.54
1	1Y	178	SER	CA-C-N	5.17	127.21	120.28
1	1Y	178	SER	C-N-CA	5.17	127.21	120.28
1	jT	165	VAL	CA-C-N	5.17	127.98	120.79
1	jT	165	VAL	C-N-CA	5.17	127.98	120.79
1	jX	115	ILE	CA-C-N	5.17	125.72	119.98
1	jX	115	ILE	C-N-CA	5.17	125.72	119.98
1	k3	186	THR	N-CA-C	5.17	117.00	111.36
1	k8	110	THR	CA-CB-CG2	5.17	119.29	110.50
1	ke	135	ILE	N-CA-C	5.17	115.90	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kn	39	MET	N-CA-C	5.17	116.92	111.28
1	ky	131	LYS	N-CA-C	5.17	116.92	111.28
1	kK	116	GLY	O-C-N	5.17	127.21	122.19
1	ln	227	LYS	N-CA-CB	5.17	117.64	110.04
1	2a	98	GLU	CA-CB-CG	-5.17	103.75	114.10
1	2v	104	ILE	N-CA-C	5.17	115.90	110.62
1	2C	230	VAL	CB-CA-C	-5.17	105.90	111.59
1	2P	165	VAL	CB-CA-C	-5.17	105.24	112.02
1	31	96	MET	N-CA-C	5.17	117.94	110.28
1	3q	162	ARG	NH1-CZ-NH2	5.17	126.03	119.30
1	3A	66	MET	CA-C-O	-5.17	114.02	119.97
1	3T	227	LYS	CA-C-O	5.17	124.41	119.08
1	3Z	133	TRP	CB-CG-CD2	-5.17	119.56	126.80
1	4b	135	ILE	CA-C-N	5.17	127.17	120.44
1	4b	135	ILE	C-N-CA	5.17	127.17	120.44
1	4f	62	HIS	CA-C-O	5.17	127.56	121.40
1	4g	144	MET	N-CA-C	5.17	117.66	111.71
1	4i	111	LEU	N-CA-C	5.17	117.66	111.71
1	4q	223	GLY	O-C-N	-5.17	116.60	121.77
1	4X	38	PRO	CB-CA-C	-5.17	104.79	112.55
1	4X	178	SER	O-C-N	-5.17	117.15	122.94
1	50	205	LEU	O-C-N	-5.17	116.64	122.12
1	56	178	SER	N-CA-CB	5.17	118.20	109.92
1	5n	180	GLU	N-CA-CB	5.17	117.51	110.01
1	5v	216	THR	O-C-N	-5.17	115.98	122.24
1	5z	155	GLN	CA-C-N	5.17	129.99	121.87
1	5z	155	GLN	C-N-CA	5.17	129.99	121.87
1	6H	164	TYR	N-CA-C	5.17	117.00	111.36
1	6P	91	ILE	N-CA-C	5.17	115.90	110.62
1	6P	129	ILE	O-C-N	-5.17	114.73	121.82
1	6Y	8	GLY	O-C-N	-5.17	116.32	122.68
1	75	52	LEU	N-CA-C	5.17	116.92	111.28
1	78	203	LYS	N-CA-C	5.17	116.92	111.28
1	7f	73	ILE	CA-C-N	5.17	127.21	120.28
1	7f	73	ILE	C-N-CA	5.17	127.21	120.28
1	7D	172	LEU	N-CA-C	5.17	117.66	111.71
1	7K	194	ALA	CA-C-O	5.17	127.89	121.94
1	7Q	154	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	7T	26	VAL	CA-C-O	5.17	126.65	121.27
1	7Z	117	TRP	CA-C-N	5.17	127.64	120.29
1	7Z	117	TRP	C-N-CA	5.17	127.64	120.29
1	84	84	HIS	ND1-CE1-NE2	5.17	113.57	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8i	81	ASP	CA-CB-CG	-5.17	107.43	112.60
1	8i	205	LEU	CA-C-O	5.17	125.34	119.18
1	8j	23	TRP	N-CA-C	5.17	116.92	111.28
1	8z	125	PRO	O-C-N	-5.17	115.66	122.64
1	8R	225	GLY	CA-C-O	-5.17	118.10	122.29
1	8U	167	ARG	CA-C-O	5.17	125.90	120.42
1	8V	55	MET	CA-C-N	5.17	127.21	120.28
1	8V	55	MET	C-N-CA	5.17	127.21	120.28
1	8X	168	PHE	CA-CB-CG	5.17	118.97	113.80
1	9a	166	ASP	N-CA-CB	-5.17	102.51	110.01
1	9d	92	GLU	O-C-N	-5.17	115.64	120.55
1	9f	26	VAL	CA-C-N	5.17	127.08	120.56
1	9f	26	VAL	C-N-CA	5.17	127.08	120.56
1	9y	3	VAL	N-CA-C	5.17	117.95	109.78
1	9G	56	LEU	CA-C-O	5.17	126.03	120.55
1	9I	37	ILE	CA-CB-CG1	5.17	119.19	110.40
1	9Q	201	ILE	CA-C-N	5.17	127.93	120.38
1	9Q	201	ILE	C-N-CA	5.17	127.93	120.38
1	Z	56	LEU	CA-C-O	5.17	125.92	119.97
1	ak	168	PHE	O-C-N	-5.17	116.50	122.09
1	aq	195	ASN	N-CA-C	5.17	115.55	109.60
1	ar	186	THR	N-CA-CB	5.17	117.72	110.12
1	az	2	ILE	CA-CB-CG2	5.17	119.29	110.50
1	aB	70	LYS	N-CA-C	5.17	116.92	111.28
1	16	128	GLU	O-C-N	-5.17	116.25	122.15
1	bc	55	MET	N-CA-C	5.17	116.92	111.28
1	bj	11	VAL	CA-C-N	-5.17	114.35	122.73
1	bj	11	VAL	C-N-CA	-5.17	114.35	122.73
1	bz	69	LEU	N-CA-C	5.17	116.61	111.07
1	bR	43	LEU	CB-CA-C	-5.17	102.20	110.79
1	bR	48	THR	N-CA-CB	5.17	117.84	110.03
1	bX	156	GLY	CA-C-N	5.17	124.67	119.19
1	bX	156	GLY	C-N-CA	5.17	124.67	119.19
1	c4	120	HIS	N-CA-C	5.17	117.39	110.35
1	cu	165	VAL	CA-CB-CG1	5.17	119.19	110.40
1	cB	132	ARG	NE-CZ-NH1	-5.17	116.33	121.50
1	cM	72	THR	N-CA-CB	5.17	117.72	110.12
1	cV	56	LEU	N-CA-CB	5.17	117.68	109.82
1	d6	184	TRP	CA-CB-CG	5.17	123.43	113.60
1	db	2	ILE	CA-C-O	5.17	126.72	120.67
1	dk	10	MET	N-CA-C	5.17	119.30	112.89
1	dn	185	MET	CA-C-N	5.17	127.47	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dn	185	MET	C-N-CA	5.17	127.47	120.38
1	dw	82	ARG	CG-CD-NE	-5.17	100.62	112.00
1	dR	71	GLU	N-CA-C	5.17	116.92	111.28
1	ej	150	ILE	O-C-N	-5.17	115.27	122.05
1	ez	229	ARG	N-CA-C	5.17	117.39	110.35
1	eA	133	TRP	CD2-CE2-CZ2	-5.17	117.23	122.40
1	1u	62	HIS	CB-CG-CD2	-5.17	124.47	131.20
1	f7	149	SER	CA-C-N	5.17	127.08	120.56
1	f7	149	SER	C-N-CA	5.17	127.08	120.56
1	fa	115	ILE	N-CA-C	5.17	115.94	110.72
1	fi	185	MET	CB-CA-C	-5.17	100.74	110.67
1	1w	172	LEU	CA-C-N	5.17	127.17	120.44
1	1w	172	LEU	C-N-CA	5.17	127.17	120.44
1	fY	182	LYS	N-CA-C	5.17	116.92	111.28
1	j	62	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	U	39	MET	CA-C-N	5.17	127.17	120.44
1	U	39	MET	C-N-CA	5.17	127.17	120.44
1	gb	17	PRO	CA-C-N	5.17	127.16	120.44
1	gb	17	PRO	C-N-CA	5.17	127.16	120.44
1	gb	162	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	gd	96	MET	O-C-N	-5.17	116.76	122.86
1	gm	225	GLY	CA-C-N	5.17	129.06	120.94
1	gm	225	GLY	C-N-CA	5.17	129.06	120.94
1	go	17	PRO	N-CA-CB	5.17	109.00	103.52
1	gt	174	ALA	N-CA-C	5.17	119.57	113.16
1	gu	77	ALA	CA-C-O	5.17	125.90	120.42
1	gB	7	GLN	CB-CG-CD	5.17	121.39	112.60
1	gH	3	VAL	N-CA-C	5.17	117.29	108.86
1	gJ	103	ASP	CA-C-N	5.17	128.78	120.30
1	gJ	103	ASP	C-N-CA	5.17	128.78	120.30
1	gM	37	ILE	CA-C-N	5.17	124.49	118.85
1	gM	37	ILE	C-N-CA	5.17	124.49	118.85
1	gR	163	ASP	CA-C-O	-5.17	115.37	120.70
1	1G	87	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	gZ	37	ILE	CA-C-O	5.17	122.64	118.71
1	h0	128	GLU	N-CA-CB	5.17	117.81	110.16
1	hg	128	GLU	CA-C-N	5.17	127.08	120.56
1	hg	128	GLU	C-N-CA	5.17	127.08	120.56
1	ho	120	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	ht	34	PRO	N-CA-CB	-5.17	98.04	103.52
1	hN	31	ALA	O-C-N	-5.17	116.83	122.67
1	i2	157	PRO	N-CA-CB	5.17	109.02	103.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i3	10	MET	CA-C-N	5.17	129.91	123.14
1	i3	10	MET	C-N-CA	5.17	129.91	123.14
1	i4	132	ARG	CG-CD-NE	-5.17	100.62	112.00
1	i4	219	GLN	O-C-N	-5.17	115.91	122.27
1	ib	42	ALA	N-CA-CB	5.17	118.18	110.22
1	ic	105	ALA	CA-C-O	5.17	125.89	119.12
1	if	184	TRP	CB-CA-C	5.17	119.37	110.79
1	ii	164	TYR	O-C-N	5.17	127.60	122.12
1	il	72	THR	CA-C-N	5.17	127.08	120.56
1	il	72	THR	C-N-CA	5.17	127.08	120.56
1	1P	134	ILE	CA-C-N	5.17	127.55	120.46
1	1P	134	ILE	C-N-CA	5.17	127.55	120.46
1	ip	193	ASN	CB-CG-ND2	5.17	124.16	116.40
1	is	192	GLN	CA-C-N	-5.17	114.38	122.65
1	is	192	GLN	C-N-CA	-5.17	114.38	122.65
1	it	136	LEU	N-CA-C	5.17	117.00	111.36
1	iu	214	MET	O-C-N	-5.17	116.74	122.07
1	ix	185	MET	CG-SD-CE	-5.17	89.52	100.90
1	1Q	47	ALA	O-C-N	-5.17	116.54	122.95
1	iR	81	ASP	CA-C-N	5.17	127.16	120.44
1	iR	81	ASP	C-N-CA	5.17	127.16	120.44
1	1S	132	ARG	CG-CD-NE	-5.17	100.62	112.00
1	iZ	207	PRO	O-C-N	-5.17	115.66	122.64
1	j0	79	GLU	CA-C-N	5.17	127.16	120.44
1	j0	79	GLU	C-N-CA	5.17	127.16	120.44
1	j0	195	ASN	CA-C-N	5.17	126.30	119.84
1	j0	195	ASN	C-N-CA	5.17	126.30	119.84
1	j7	17	PRO	N-CA-C	-5.17	106.80	113.57
1	j9	50	GLN	CB-CG-CD	5.17	121.39	112.60
1	ja	1	PRO	CB-CA-C	5.17	119.92	110.10
1	jb	62	HIS	N-CA-CB	5.17	120.58	112.46
1	jn	110	THR	CA-CB-OG1	5.17	117.36	109.60
1	jo	53	ASN	CA-C-N	5.17	127.16	120.44
1	jo	53	ASN	C-N-CA	5.17	127.16	120.44
1	jJ	199	LYS	CA-C-N	5.17	127.21	120.28
1	jJ	199	LYS	C-N-CA	5.17	127.21	120.28
1	jR	171	THR	O-C-N	-5.17	116.17	122.22
1	jV	41	SER	N-CA-C	5.17	116.92	111.28
1	jZ	142	VAL	N-CA-C	-5.17	105.46	113.16
1	20	12	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	ke	27	VAL	CA-CB-CG1	5.17	119.19	110.40
1	ks	40	PHE	N-CA-C	5.17	116.60	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kt	40	PHE	N-CA-C	5.17	117.00	111.36
1	kt	141	ILE	CA-CB-CG1	5.17	119.19	110.40
1	ky	229	ARG	CG-CD-NE	-5.17	100.62	112.00
1	kB	110	THR	O-C-N	-5.17	117.15	122.94
1	kF	83	LEU	N-CA-C	-5.17	106.37	113.30
1	kI	169	TYR	CA-C-N	5.17	127.98	120.79
1	kI	169	TYR	C-N-CA	5.17	127.98	120.79
1	kN	59	VAL	O-C-N	-5.17	117.04	122.83
1	kR	62	HIS	CA-CB-CG	5.17	118.97	113.80
1	kR	194	ALA	N-CA-C	-5.17	103.86	110.53
1	kW	24	VAL	CA-C-N	5.17	127.16	120.44
1	kW	24	VAL	C-N-CA	5.17	127.16	120.44
1	lc	137	GLY	O-C-N	5.17	127.21	122.19
1	lh	39	MET	CA-C-N	5.17	127.21	120.28
1	lh	39	MET	C-N-CA	5.17	127.21	120.28
1	ln	13	GLN	O-C-N	-5.17	116.66	123.28
1	lq	205	LEU	N-CA-C	5.17	116.60	111.07
1	lr	57	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	lr	73	ILE	N-CA-C	5.17	115.79	110.36
1	lw	87	HIS	CB-CG-ND1	5.17	130.46	122.70
1	ly	129	ILE	N-CA-C	5.17	115.38	110.42
1	lM	134	ILE	N-CA-C	5.17	115.39	110.42
1	2j	212	GLU	CA-C-O	-5.17	115.07	120.55
1	2z	68	MET	N-CA-C	5.17	116.60	111.07
1	2z	87	HIS	CB-CG-CD2	-5.17	124.48	131.20
1	2E	66	MET	N-CA-CB	5.17	117.51	110.01
1	2K	12	HIS	CA-C-N	5.17	130.35	121.87
1	2K	12	HIS	C-N-CA	5.17	130.35	121.87
1	2M	210	THR	O-C-N	-5.17	117.15	122.94
1	2V	135	ILE	N-CA-C	5.17	116.52	110.62
1	30	175	GLU	N-CA-CB	5.17	117.56	109.85
1	32	169	TYR	CB-CA-C	5.17	119.38	110.79
1	3a	109	SER	N-CA-C	5.17	117.25	109.23
1	3x	71	GLU	CA-C-N	5.17	127.21	120.28
1	3x	71	GLU	C-N-CA	5.17	127.21	120.28
1	3B	65	ALA	O-C-N	-5.17	116.51	122.09
1	3C	73	ILE	CA-C-N	5.17	127.21	120.28
1	3C	73	ILE	C-N-CA	5.17	127.21	120.28
1	3I	167	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	3Q	80	TRP	CB-CG-CD1	-5.17	119.14	126.90
1	3R	5	ASN	N-CA-CB	-5.17	103.39	111.56
1	3V	19	THR	O-C-N	5.17	127.67	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4q	75	GLU	N-CA-C	5.17	116.92	111.28
1	4s	81	ASP	N-CA-C	5.17	117.31	111.11
1	4t	84	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	4A	34	PRO	O-C-N	5.17	129.62	122.64
1	4Q	73	ILE	CA-CB-CG2	-5.17	101.71	110.50
1	4R	135	ILE	CA-C-O	-5.17	115.69	121.17
1	4U	95	GLN	CA-C-O	-5.17	115.32	121.16
1	4X	4	GLN	CA-C-N	5.17	128.11	120.82
1	4X	4	GLN	C-N-CA	5.17	128.11	120.82
1	4Z	114	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	59	106	GLY	N-CA-C	5.17	121.23	115.08
1	5k	132	ARG	N-CA-C	-5.17	105.64	111.28
1	5s	127	GLY	CA-C-N	5.17	127.21	120.28
1	5s	127	GLY	C-N-CA	5.17	127.21	120.28
1	5A	174	ALA	CA-C-N	5.17	128.05	120.71
1	5A	174	ALA	C-N-CA	5.17	128.05	120.71
1	5J	68	MET	N-CA-C	5.17	116.60	111.07
1	5L	80	TRP	N-CA-C	5.17	116.92	111.28
1	5V	50	GLN	CA-C-N	5.17	127.21	120.28
1	5V	50	GLN	C-N-CA	5.17	127.21	120.28
1	5X	50	GLN	CA-C-N	5.17	127.21	120.28
1	5X	50	GLN	C-N-CA	5.17	127.21	120.28
1	5Z	22	ALA	O-C-N	-5.17	115.91	122.27
1	62	80	TRP	CA-C-N	5.17	127.21	120.28
1	62	80	TRP	C-N-CA	5.17	127.21	120.28
1	65	214	MET	CG-SD-CE	-5.17	89.52	100.90
1	66	174	ALA	CA-C-N	5.17	128.82	121.42
1	66	174	ALA	C-N-CA	5.17	128.82	121.42
1	6e	178	SER	N-CA-CB	5.17	117.64	110.04
1	6j	24	VAL	CB-CA-C	5.17	119.12	112.14
1	6m	183	ASN	CA-C-O	5.17	126.03	120.55
1	6t	167	ARG	N-CA-C	5.17	117.00	111.36
1	6H	144	MET	N-CA-C	5.17	117.66	111.71
1	6O	199	LYS	CA-C-N	5.17	127.21	120.28
1	6O	199	LYS	C-N-CA	5.17	127.21	120.28
1	70	100	ARG	CD-NE-CZ	5.17	131.64	124.40
1	78	167	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	7a	21	ASN	O-C-N	-5.17	116.17	122.22
1	7b	213	GLU	CB-CA-C	5.17	119.00	110.88
1	7l	69	LEU	N-CA-C	5.17	116.60	111.07
1	7D	87	HIS	CA-C-N	5.17	130.59	122.11
1	7D	87	HIS	C-N-CA	5.17	130.59	122.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	220	GLY	CA-C-N	5.17	129.60	123.19
1	7S	220	GLY	C-N-CA	5.17	129.60	123.19
1	7Y	20	LEU	N-CA-CB	5.17	117.81	110.16
1	81	162	ARG	CD-NE-CZ	-5.17	117.16	124.40
1	86	176	GLN	CB-CG-CD	5.17	121.39	112.60
1	8b	130	TYR	CB-CA-C	5.17	119.00	110.88
1	8e	3	VAL	CA-C-N	5.17	129.96	122.36
1	8e	3	VAL	C-N-CA	5.17	129.96	122.36
1	8k	100	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	8l	137	GLY	CA-C-O	5.17	126.08	120.75
1	8n	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	8o	132	ARG	N-CA-CB	5.17	117.51	110.01
1	8p	62	HIS	N-CA-C	5.17	118.46	111.17
1	8u	74	ASN	N-CA-CB	-5.17	102.52	110.12
1	8E	143	ARG	CD-NE-CZ	5.17	131.64	124.40
1	8E	145	TYR	CA-C-N	5.17	131.10	121.69
1	8E	145	TYR	C-N-CA	5.17	131.10	121.69
1	8F	185	MET	O-C-N	-5.17	116.71	122.09
1	8H	150	ILE	N-CA-C	5.17	115.89	110.62
1	8K	32	PHE	CA-C-O	5.17	125.94	119.78
1	8P	79	GLU	CA-C-O	5.17	126.03	120.55
1	8R	75	GLU	N-CA-C	5.17	116.92	111.28
1	8X	7	GLN	N-CA-C	5.17	117.33	108.90
1	8Z	133	TRP	CA-C-O	5.17	126.03	120.55
1	92	215	MET	CA-C-O	5.17	126.03	120.55
1	95	199	LYS	N-CA-CB	-5.17	102.51	110.16
1	99	67	GLN	CA-C-N	5.17	127.46	120.38
1	99	67	GLN	C-N-CA	5.17	127.46	120.38
1	9e	45	GLU	CA-C-N	5.17	131.61	121.06
1	9e	45	GLU	C-N-CA	5.17	131.61	121.06
1	9g	45	GLU	N-CA-CB	5.17	117.67	109.71
1	9m	194	ALA	CA-C-N	5.17	128.51	120.60
1	9m	194	ALA	C-N-CA	5.17	128.51	120.60
1	9m	203	LYS	N-CA-C	5.17	116.72	111.14
1	9q	210	THR	N-CA-CB	5.17	118.84	110.41
1	9u	61	GLY	O-C-N	-5.17	117.86	122.77
1	9x	128	GLU	N-CA-C	5.17	116.72	111.14
1	9A	55	MET	O-C-N	-5.17	116.64	122.12
1	9K	62	HIS	CA-C-N	5.17	127.21	120.28
1	9K	62	HIS	C-N-CA	5.17	127.21	120.28
1	9O	126	VAL	O-C-N	-5.17	116.85	121.87
1	9X	2	ILE	CA-C-O	5.17	126.70	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Y	52	LEU	CA-C-O	-5.17	115.07	120.55
1	a8	54	THR	CA-C-O	-5.17	115.07	120.55
1	ah	16	SER	O-C-N	-5.17	115.94	121.42
1	11	157	PRO	N-CA-C	-5.17	107.29	114.27
1	an	65	ALA	O-C-N	-5.17	116.64	122.12
1	ap	163	ASP	CA-C-N	5.17	127.21	120.28
1	ap	163	ASP	C-N-CA	5.17	127.21	120.28
1	aq	21	ASN	CA-C-N	5.17	127.21	120.28
1	aq	21	ASN	C-N-CA	5.17	127.21	120.28
1	aM	185	MET	N-CA-C	5.17	117.82	111.82
1	aV	136	LEU	CA-C-N	5.17	125.68	119.94
1	aV	136	LEU	C-N-CA	5.17	125.68	119.94
1	aY	189	LEU	O-C-N	-5.17	116.64	122.12
1	aZ	121	ASN	CA-CB-CG	5.17	117.77	112.60
1	aZ	188	THR	OG1-CB-CG2	-5.17	98.96	109.30
1	b6	146	SER	O-C-N	-5.17	117.42	121.19
1	b6	188	THR	N-CA-C	5.17	116.72	111.14
1	bd	126	VAL	CA-CB-CG1	-5.17	101.61	110.40
1	be	59	VAL	N-CA-C	5.17	116.52	110.62
1	bk	100	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	bo	138	LEU	O-C-N	-5.17	115.91	122.27
1	bo	219	GLN	O-C-N	-5.17	115.23	122.37
1	bv	113	GLU	O-C-N	-5.17	116.25	122.15
1	bw	104	ILE	CA-C-O	5.17	126.06	120.47
1	by	112	GLN	CA-C-N	5.17	127.21	120.28
1	by	112	GLN	C-N-CA	5.17	127.21	120.28
1	bA	79	GLU	CA-C-N	5.17	131.42	121.54
1	bA	79	GLU	C-N-CA	5.17	131.42	121.54
1	19	97	ARG	CA-C-O	5.17	127.03	121.55
1	bD	196	PRO	N-CA-C	5.17	123.12	112.47
1	bE	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	bO	124	ILE	N-CA-CB	5.17	116.94	111.20
1	bP	86	VAL	O-C-N	-5.17	116.62	122.72
1	bQ	132	ARG	CA-C-N	5.17	127.21	120.28
1	bQ	132	ARG	C-N-CA	5.17	127.21	120.28
1	bZ	53	ASN	CA-C-N	5.17	127.21	120.28
1	bZ	53	ASN	C-N-CA	5.17	127.21	120.28
1	c9	171	THR	N-CA-C	5.17	116.60	111.07
1	cb	100	ARG	CA-C-N	5.17	126.65	120.13
1	cb	100	ARG	C-N-CA	5.17	126.65	120.13
1	ci	189	LEU	CA-C-N	5.17	127.98	120.79
1	ci	189	LEU	C-N-CA	5.17	127.98	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1e	110	THR	O-C-N	-5.17	116.84	122.84
1	1f	112	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	cB	173	ARG	N-CA-C	5.17	117.00	111.36
1	cO	85	PRO	N-CA-CB	-5.17	99.13	102.65
1	cP	81	ASP	CA-C-O	-5.17	114.25	120.10
1	cQ	23	TRP	CA-C-O	5.17	126.25	120.82
1	cR	11	VAL	N-CA-C	-5.17	100.31	108.90
1	cT	170	LYS	CA-C-N	5.17	127.63	120.29
1	cT	170	LYS	C-N-CA	5.17	127.63	120.29
1	cU	173	ARG	N-CA-C	5.17	116.60	111.07
1	cZ	117	TRP	CA-C-O	-5.17	114.94	120.42
1	d2	48	THR	CA-C-N	5.17	125.22	119.32
1	d2	48	THR	C-N-CA	5.17	125.22	119.32
1	d6	200	THR	CA-C-N	5.17	127.18	120.56
1	d6	200	THR	C-N-CA	5.17	127.18	120.56
1	d7	100	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	d7	186	THR	CA-CB-OG1	5.17	117.36	109.60
1	di	205	LEU	CA-C-O	5.17	126.03	120.55
1	du	69	LEU	N-CA-C	5.17	116.92	111.28
1	dz	198	CYS	CA-C-N	5.17	127.73	120.28
1	dz	198	CYS	C-N-CA	5.17	127.73	120.28
1	dD	70	LYS	N-CA-C	5.17	116.92	111.28
1	dF	88	ALA	CB-CA-C	-5.17	101.82	110.56
1	dG	184	TRP	CD2-CE2-CZ2	-5.17	117.23	122.40
1	dV	189	LEU	CA-C-O	-5.17	115.07	120.55
1	dW	133	TRP	CA-C-N	5.17	127.55	120.46
1	dW	133	TRP	C-N-CA	5.17	127.55	120.46
1	dW	139	ASN	O-C-N	-5.17	115.91	122.27
1	e6	62	HIS	ND1-CG-CD2	5.17	111.27	106.10
1	ei	72	THR	N-CA-CB	5.17	117.64	109.94
1	ej	166	ASP	N-CA-CB	-5.17	102.51	110.16
1	1q	210	THR	CA-C-O	-5.17	115.71	121.81
1	en	215	MET	CG-SD-CE	-5.17	89.53	100.90
1	1r	172	LEU	N-CA-C	5.17	119.22	113.01
1	eE	194	ALA	CA-C-O	5.17	127.89	121.94
1	1s	219	GLN	CA-C-N	5.17	124.89	119.92
1	1s	219	GLN	C-N-CA	5.17	124.89	119.92
1	eW	138	LEU	N-CA-C	5.17	116.60	111.07
1	f1	112	GLN	N-CA-C	5.17	117.82	111.82
1	f3	121	ASN	CA-C-O	-5.17	115.56	119.59
1	fh	29	GLU	N-CA-C	5.17	119.57	113.16
1	fh	137	GLY	O-C-N	-5.17	117.01	122.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fl	81	ASP	N-CA-CB	5.17	117.81	110.16
1	fy	136	LEU	CA-C-O	5.17	126.25	120.82
1	1y	124	ILE	O-C-N	-5.17	115.20	121.10
1	fE	156	GLY	CA-C-O	-5.17	116.19	121.62
1	fT	110	THR	CA-CB-OG1	5.17	117.36	109.60
1	fV	63	GLN	N-CA-C	5.17	117.32	111.11
1	1A	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	1A	163	ASP	O-C-N	-5.17	116.64	122.12
1	g2	153	ILE	N-CA-CB	5.17	116.88	110.05
1	g2	214	MET	CG-SD-CE	-5.17	89.52	100.90
1	g6	123	PRO	CA-C-N	5.17	128.40	123.02
1	g6	123	PRO	C-N-CA	5.17	128.40	123.02
1	j	48	THR	CA-C-N	5.17	125.21	119.32
1	j	48	THR	C-N-CA	5.17	125.21	119.32
1	1	23	TRP	CG-CD1-NE1	-5.17	103.48	110.20
1	p	164	TYR	O-C-N	-5.17	116.74	122.07
1	F	5	ASN	O-C-N	-5.17	116.29	122.65
1	L	77	ALA	O-C-N	-5.17	116.25	122.15
1	P	48	THR	O-C-N	-5.17	115.37	121.32
1	V	185	MET	N-CA-C	5.17	118.37	111.75
1	5	199	LYS	O-C-N	-5.17	116.64	122.12
1	gg	205	LEU	CA-C-O	5.17	126.21	120.63
1	gp	223	GLY	O-C-N	-5.17	116.60	121.77
1	gu	212	GLU	CA-C-N	5.17	127.63	120.29
1	gu	212	GLU	C-N-CA	5.17	127.63	120.29
1	gD	16	SER	N-CA-C	5.17	117.07	109.42
1	gD	150	ILE	CA-C-O	5.17	126.10	120.57
1	gR	57	ASN	N-CA-C	-5.17	106.82	113.23
1	1G	5	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	gY	191	VAL	CB-CA-C	-5.17	105.35	111.97
1	h4	161	PHE	CB-CA-C	5.17	120.71	110.42
1	hc	144	MET	N-CA-C	5.17	116.92	111.28
1	hM	57	ASN	N-CA-C	5.17	119.64	113.23
1	hS	25	LYS	CB-CG-CD	5.17	123.19	111.30
1	iG	127	GLY	CA-C-N	5.17	127.16	120.44
1	iG	127	GLY	C-N-CA	5.17	127.16	120.44
1	iM	145	TYR	CB-CG-CD2	-5.17	113.04	120.80
1	j4	74	ASN	N-CA-CB	5.17	117.51	110.01
1	j7	27	VAL	N-CA-C	5.17	115.89	110.62
1	1U	98	GLU	N-CA-CB	5.17	119.04	109.37
1	ji	26	VAL	CA-C-N	5.17	127.76	120.42
1	ji	26	VAL	C-N-CA	5.17	127.76	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jp	183	ASN	O-C-N	-5.17	116.64	122.12
1	jx	143	ARG	N-CA-C	5.17	116.60	111.07
1	jC	52	LEU	CA-C-N	5.17	127.63	120.29
1	jC	52	LEU	C-N-CA	5.17	127.63	120.29
1	1X	18	ARG	N-CA-C	-5.17	105.82	111.82
1	jK	30	LYS	CG-CD-CE	5.17	123.19	111.30
1	jQ	48	THR	CA-C-N	5.17	124.79	119.05
1	jQ	48	THR	C-N-CA	5.17	124.79	119.05
1	jR	57	ASN	N-CA-CB	5.17	117.72	110.12
1	k8	94	GLY	O-C-N	-5.17	115.98	122.70
1	kf	184	TRP	CD2-CE2-CZ2	-5.17	117.23	122.40
1	ks	143	ARG	CA-C-N	5.17	127.21	120.28
1	ks	143	ARG	C-N-CA	5.17	127.21	120.28
1	kx	207	PRO	N-CD-CG	5.17	110.95	103.20
1	kJ	21	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	kU	87	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	kZ	229	ARG	CG-CD-NE	-5.17	100.63	112.00
1	26	223	GLY	CA-C-N	5.17	126.30	119.84
1	26	223	GLY	C-N-CA	5.17	126.30	119.84
1	lE	204	ALA	N-CA-CB	-5.17	102.51	110.01
1	lK	202	LEU	N-CA-C	5.17	116.92	111.28
1	lL	115	ILE	CA-C-O	5.17	126.65	121.17
1	lQ	164	TYR	N-CA-CB	-5.17	102.52	110.12
1	2e	130	TYR	O-C-N	-5.17	116.75	122.07
1	2i	153	ILE	O-C-N	-5.17	117.03	122.67
1	2m	19	THR	CA-CB-OG1	-5.17	101.85	109.60
1	2z	92	GLU	CA-C-N	5.17	125.16	119.89
1	2z	92	GLU	C-N-CA	5.17	125.16	119.89
1	2X	81	ASP	O-C-N	-5.17	116.64	122.12
1	31	114	GLN	CA-C-N	5.17	127.82	120.53
1	31	114	GLN	C-N-CA	5.17	127.82	120.53
1	3b	136	LEU	CA-C-N	5.17	125.68	119.94
1	3b	136	LEU	C-N-CA	5.17	125.68	119.94
1	3p	133	TRP	CA-C-O	-5.17	115.07	120.55
1	3y	76	GLU	O-C-N	-5.17	115.40	122.33
1	4f	131	LYS	N-CA-CB	-5.17	102.52	110.12
1	4h	127	GLY	CA-C-N	5.17	127.21	120.28
1	4h	127	GLY	C-N-CA	5.17	127.21	120.28
1	4i	124	ILE	CA-CB-CG2	5.17	119.29	110.50
1	4C	29	GLU	N-CA-C	5.17	116.60	111.07
1	4F	114	GLN	CA-C-O	-5.17	115.07	120.55
1	4H	59	VAL	N-CA-C	5.17	116.25	109.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4U	197	ASP	O-C-N	5.17	127.60	122.12
1	5e	17	PRO	N-CA-CB	-5.17	98.55	103.51
1	5h	32	PHE	CA-C-O	5.17	126.82	120.15
1	5h	140	LYS	O-C-N	-5.17	116.26	122.15
1	5v	198	CYS	CA-C-O	5.17	126.03	120.55
1	5M	4	GLN	CA-C-O	5.17	129.37	122.44
1	5O	64	ALA	CA-C-N	5.17	127.21	120.28
1	5O	64	ALA	C-N-CA	5.17	127.21	120.28
1	5V	75	GLU	CA-C-N	5.17	127.16	120.44
1	5V	75	GLU	C-N-CA	5.17	127.16	120.44
1	60	200	THR	CA-C-O	5.17	126.03	120.55
1	62	159	GLU	N-CA-CB	5.17	118.46	109.57
1	69	75	GLU	N-CA-CB	-5.17	102.51	110.01
1	6b	158	LYS	O-C-N	-5.17	115.72	122.39
1	6e	184	TRP	CA-C-N	5.17	127.46	120.38
1	6e	184	TRP	C-N-CA	5.17	127.46	120.38
1	6t	172	LEU	CA-C-O	5.17	125.94	120.10
1	7j	139	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	7U	116	GLY	N-CA-C	5.17	118.93	112.73
1	8h	102	SER	N-CA-C	5.17	117.31	111.11
1	8l	12	HIS	CA-CB-CG	5.17	118.97	113.80
1	8m	32	PHE	CB-CG-CD1	5.17	129.49	120.70
1	8m	71	GLU	N-CA-C	5.17	116.92	111.28
1	8F	145	TYR	CA-CB-CG	-5.17	104.59	113.90
1	8O	18	ARG	N-CA-C	5.17	116.60	111.07
1	93	144	MET	CA-C-O	5.17	126.03	120.55
1	9x	119	THR	CA-CB-OG1	5.17	117.36	109.60
1	9A	172	LEU	CA-C-N	5.17	127.46	120.38
1	9A	172	LEU	C-N-CA	5.17	127.46	120.38
1	a2	48	THR	CA-CB-OG1	5.17	117.36	109.60
1	a3	217	ALA	O-C-N	-5.17	116.86	123.06
1	ao	173	ARG	CG-CD-NE	-5.17	100.63	112.00
1	as	36	VAL	CA-C-N	5.17	131.69	122.13
1	as	36	VAL	C-N-CA	5.17	131.69	122.13
1	as	140	LYS	CA-C-O	5.17	126.03	120.55
1	aF	193	ASN	N-CA-CB	-5.17	103.10	110.80
1	aJ	47	ALA	O-C-N	-5.17	116.54	122.95
1	14	64	ALA	CA-C-N	5.17	127.21	120.28
1	14	64	ALA	C-N-CA	5.17	127.21	120.28
1	bm	35	GLU	N-CA-CB	5.17	118.18	110.22
1	bm	219	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	bv	14	ALA	O-C-N	-5.17	116.51	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	19	51	ASP	O-C-N	-5.17	116.64	122.12
1	bF	103	ASP	CA-C-O	5.17	125.90	120.42
1	cn	18	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	cD	65	ALA	O-C-N	-5.17	116.64	122.12
1	cO	1	PRO	N-CA-CB	5.17	108.69	103.00
1	cO	164	TYR	CG-CD2-CE2	-5.17	113.44	121.20
1	d7	210	THR	N-CA-CB	5.17	117.32	110.29
1	di	98	GLU	CB-CA-C	5.17	116.86	109.26
1	dC	161	PHE	N-CA-CB	5.17	117.72	110.12
1	dY	76	GLU	N-CA-C	5.17	116.60	111.07
1	e1	221	VAL	CA-C-O	5.17	126.33	120.85
1	e3	145	TYR	CA-CB-CG	-5.17	104.59	113.90
1	el	110	THR	CA-C-N	5.17	127.52	120.54
1	el	110	THR	C-N-CA	5.17	127.52	120.54
1	ez	230	VAL	N-CA-CB	5.17	119.96	111.58
1	eA	148	THR	CA-CB-CG2	5.17	119.29	110.50
1	eK	192	GLN	CG-CD-NE2	5.17	124.15	116.40
1	1t	213	GLU	O-C-N	-5.17	116.17	122.22
1	fd	129	ILE	CA-C-O	-5.17	114.67	120.25
1	fj	12	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	fn	145	TYR	CA-C-N	5.17	128.01	120.51
1	fn	145	TYR	C-N-CA	5.17	128.01	120.51
1	fI	92	GLU	CA-C-N	5.17	125.11	119.78
1	fI	92	GLU	C-N-CA	5.17	125.11	119.78
1	fI	101	GLY	CA-C-O	5.17	125.99	120.30
1	fR	73	ILE	O-C-N	-5.17	115.96	121.80
1	h	66	MET	N-CA-C	5.17	117.66	111.71
1	2	74	ASN	CA-CB-CG	-5.17	107.43	112.60
1	v	154	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	3	120	HIS	CB-CG-CD2	-5.17	124.48	131.20
1	3	184	TRP	CA-C-N	5.17	127.21	120.28
1	3	184	TRP	C-N-CA	5.17	127.21	120.28
1	L	97	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	P	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	R	65	ALA	N-CA-C	5.17	116.92	111.28
1	V	121	ASN	CA-C-O	-5.17	115.56	119.59
1	gj	73	ILE	N-CA-C	5.17	115.38	110.42
1	gq	198	CYS	N-CA-C	5.17	116.99	111.36
1	gs	129	ILE	N-CA-CB	5.17	116.60	110.55
1	gv	212	GLU	CA-C-O	-5.17	115.37	120.90
1	gw	133	TRP	CD2-CE2-CZ2	-5.17	117.23	122.40
1	gw	169	TYR	CA-C-N	5.17	127.46	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gw	169	TYR	C-N-CA	5.17	127.46	120.38
1	gx	121	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	gy	161	PHE	N-CA-CB	-5.17	102.27	110.28
1	1E	27	VAL	N-CA-C	5.17	118.37	111.44
1	gG	186	THR	CA-C-O	5.17	125.94	120.10
1	gL	183	ASN	CA-C-O	5.17	126.03	120.70
1	gQ	226	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	gX	43	LEU	N-CA-C	5.17	118.69	112.38
1	gZ	47	ALA	CA-C-O	-5.17	115.03	120.92
1	h4	184	TRP	O-C-N	-5.17	116.64	122.12
1	1H	186	THR	CA-C-O	5.17	126.25	120.82
1	hb	86	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	hg	38	PRO	CA-C-O	-5.17	111.19	120.60
1	hk	173	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	hk	214	MET	CA-C-N	5.17	128.16	120.31
1	hk	214	MET	C-N-CA	5.17	128.16	120.31
1	hl	143	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	hm	18	ARG	CA-CB-CG	-5.17	103.76	114.10
1	hn	225	GLY	CA-C-N	5.17	128.05	120.71
1	hn	225	GLY	C-N-CA	5.17	128.05	120.71
1	ho	15	ILE	N-CA-C	5.17	116.67	109.80
1	hB	82	ARG	O-C-N	5.17	127.60	122.12
1	hE	174	ALA	N-CA-C	-5.17	105.81	112.68
1	hG	195	ASN	CA-C-N	5.17	125.21	119.32
1	hG	195	ASN	C-N-CA	5.17	125.21	119.32
1	1M	114	GLN	CA-C-N	5.17	127.54	120.46
1	1M	114	GLN	C-N-CA	5.17	127.54	120.46
1	hV	163	ASP	O-C-N	-5.17	116.75	122.07
1	ij	32	PHE	CA-CB-CG	-5.17	108.63	113.80
1	ik	164	TYR	CB-CA-C	5.17	119.06	110.90
1	im	26	VAL	N-CA-C	5.17	115.79	110.36
1	1P	62	HIS	CB-CG-CD2	-5.17	124.48	131.20
1	is	66	MET	N-CA-CB	5.17	117.81	110.16
1	iw	84	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	iF	85	PRO	CA-C-O	-5.17	115.69	121.32
1	iH	15	ILE	N-CA-C	5.17	116.35	109.37
1	iH	103	ASP	CA-C-N	5.17	127.07	120.56
1	iH	103	ASP	C-N-CA	5.17	127.07	120.56
1	iH	160	PRO	N-CA-CB	-5.17	97.82	103.25
1	iN	104	ILE	CA-CB-CG1	5.17	119.19	110.40
1	iU	105	ALA	O-C-N	-5.17	114.89	122.43
1	iW	201	ILE	N-CA-C	5.17	115.39	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	27	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	1T	149	SER	CA-C-N	5.17	127.76	120.42
1	1T	149	SER	C-N-CA	5.17	127.76	120.42
1	jg	228	ALA	O-C-N	5.17	128.95	123.42
1	jj	130	TYR	CA-C-N	5.17	127.21	120.28
1	jj	130	TYR	C-N-CA	5.17	127.21	120.28
1	jr	10	MET	CG-SD-CE	-5.17	89.53	100.90
1	jD	81	ASP	N-CA-CB	5.17	117.50	110.01
1	jJ	92	GLU	O-C-N	-5.17	115.08	121.64
1	jL	198	CYS	N-CA-CB	5.17	118.18	110.22
1	jN	11	VAL	N-CA-C	5.17	116.02	108.58
1	jO	12	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	jP	183	ASN	O-C-N	5.17	127.67	122.09
1	jU	25	LYS	N-CA-C	5.17	116.91	111.28
1	jU	57	ASN	CA-C-N	5.17	127.52	120.54
1	jU	57	ASN	C-N-CA	5.17	127.52	120.54
1	jY	229	ARG	O-C-N	-5.17	115.48	122.41
1	k9	133	TRP	CA-C-N	5.17	127.76	120.42
1	k9	133	TRP	C-N-CA	5.17	127.76	120.42
1	k9	216	THR	CA-C-O	5.17	125.73	119.11
1	ka	24	VAL	N-CA-C	5.17	115.89	110.62
1	kg	54	THR	CA-C-N	5.17	127.47	120.65
1	kg	54	THR	C-N-CA	5.17	127.47	120.65
1	kh	67	GLN	N-CA-CB	5.17	117.81	110.16
1	kn	75	GLU	N-CA-C	5.17	116.72	111.14
1	ky	167	ARG	CD-NE-CZ	-5.17	117.17	124.40
1	kF	197	ASP	N-CA-CB	-5.17	102.27	110.28
1	kO	192	GLN	CB-CG-CD	-5.17	103.81	112.60
1	kV	85	PRO	CA-C-N	5.17	127.43	120.50
1	kV	85	PRO	C-N-CA	5.17	127.43	120.50
1	kX	163	ASP	O-C-N	-5.17	116.26	122.15
1	l4	61	GLY	CA-C-N	5.17	129.90	122.35
1	l4	61	GLY	C-N-CA	5.17	129.90	122.35
1	lo	27	VAL	N-CA-C	-5.17	105.35	110.62
1	lp	89	GLY	O-C-N	-5.17	116.60	121.77
1	lp	124	ILE	CB-CA-C	-5.17	105.23	111.18
1	29	62	HIS	ND1-CG-CD2	5.17	111.27	106.10
1	lC	205	LEU	CA-C-N	5.17	129.99	121.87
1	lC	205	LEU	C-N-CA	5.17	129.99	121.87
1	lD	220	GLY	N-CA-C	-5.17	108.09	115.64
1	lF	27	VAL	CA-CB-CG2	-5.17	101.61	110.40
1	lG	166	ASP	CB-CA-C	5.17	118.92	110.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2f	80	TRP	N-CA-CB	-5.17	102.26	110.22
1	2f	161	PHE	CA-C-N	5.17	127.46	120.38
1	2f	161	PHE	C-N-CA	5.17	127.46	120.38
1	2m	99	PRO	N-CD-CG	5.17	110.95	103.20
1	2S	85	PRO	CB-CA-C	5.17	117.85	111.23
1	2Y	229	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	39	116	GLY	CA-C-N	5.17	127.52	120.54
1	39	116	GLY	C-N-CA	5.17	127.52	120.54
1	3b	90	PRO	CB-CA-C	5.17	117.79	111.12
1	3j	51	ASP	CA-C-N	5.17	127.63	120.29
1	3j	51	ASP	C-N-CA	5.17	127.63	120.29
1	3p	24	VAL	CA-C-N	5.17	127.20	120.28
1	3p	24	VAL	C-N-CA	5.17	127.20	120.28
1	3t	37	ILE	CA-C-O	-5.17	113.02	119.95
1	3t	42	ALA	CA-C-O	5.17	126.03	120.55
1	3D	188	THR	CA-CB-CG2	5.17	119.29	110.50
1	4b	145	TYR	CB-CG-CD1	-5.17	113.05	120.80
1	4d	40	PHE	CA-CB-CG	-5.17	108.63	113.80
1	4u	159	GLU	CA-C-N	5.17	126.30	119.84
1	4u	159	GLU	C-N-CA	5.17	126.30	119.84
1	4x	91	ILE	O-C-N	-5.17	117.87	123.14
1	4D	67	GLN	CB-CA-C	-5.17	102.21	110.79
1	4F	193	ASN	OD1-CG-ND2	-5.17	117.43	122.60
1	4G	169	TYR	N-CA-C	5.17	116.91	111.28
1	4J	191	VAL	CA-C-O	-5.17	115.58	120.95
1	4N	51	ASP	N-CA-C	5.17	116.91	111.28
1	4O	230	VAL	O-C-N	-5.17	117.87	123.14
1	4P	173	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	4Z	21	ASN	CA-C-N	5.17	127.20	120.28
1	4Z	21	ASN	C-N-CA	5.17	127.20	120.28
1	53	94	GLY	N-CA-C	5.17	121.88	112.58
1	53	153	ILE	CA-CB-CG2	-5.17	101.71	110.50
1	5b	217	ALA	O-C-N	-5.17	116.76	122.86
1	5g	7	GLN	CA-C-O	-5.17	113.70	119.95
1	5r	150	ILE	CA-C-N	5.17	128.16	120.31
1	5r	150	ILE	C-N-CA	5.17	128.16	120.31
1	5B	62	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	5G	128	GLU	CA-C-N	5.17	127.16	120.70
1	5G	128	GLU	C-N-CA	5.17	127.16	120.70
1	5N	81	ASP	O-C-N	-5.17	116.75	122.07
1	5S	68	MET	O-C-N	-5.17	116.26	122.15
1	5W	200	THR	N-CA-C	5.17	116.91	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6j	131	LYS	CG-CD-CE	5.17	123.19	111.30
1	6k	68	MET	O-C-N	-5.17	116.72	122.09
1	6m	91	ILE	CA-C-N	5.17	130.76	120.94
1	6m	91	ILE	C-N-CA	5.17	130.76	120.94
1	6p	50	GLN	CA-C-O	5.17	126.25	120.82
1	6p	92	GLU	CA-C-N	-5.17	116.43	121.65
1	6p	92	GLU	C-N-CA	-5.17	116.43	121.65
1	6J	162	ARG	CA-C-N	5.17	127.47	120.44
1	6J	162	ARG	C-N-CA	5.17	127.47	120.44
1	6L	202	LEU	N-CA-C	5.17	116.91	111.28
1	6M	18	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	6X	127	GLY	O-C-N	5.17	127.20	122.19
1	73	14	ALA	O-C-N	-5.17	116.20	122.82
1	7a	123	PRO	N-CA-C	5.17	119.32	111.15
1	7i	175	GLU	CA-C-N	5.17	130.50	122.49
1	7i	175	GLU	C-N-CA	5.17	130.50	122.49
1	7m	118	MET	N-CA-C	5.17	119.44	113.18
1	7q	7	GLN	CA-C-O	5.17	127.56	121.87
1	7x	76	GLU	N-CA-CB	5.17	117.72	110.12
1	7y	193	ASN	CA-C-N	5.17	129.06	120.94
1	7y	193	ASN	C-N-CA	5.17	129.06	120.94
1	7z	167	ARG	N-CA-CB	-5.17	102.24	109.94
1	7D	132	ARG	N-CA-C	5.17	116.60	111.07
1	7G	200	THR	N-CA-C	5.17	116.91	111.28
1	7L	184	TRP	N-CA-C	5.17	116.91	111.28
1	7P	118	MET	CG-SD-CE	-5.17	89.53	100.90
1	7R	210	THR	N-CA-CB	5.17	118.81	110.85
1	8b	103	ASP	N-CA-C	5.17	116.60	111.07
1	8g	213	GLU	CA-C-N	5.17	127.21	120.28
1	8g	213	GLU	C-N-CA	5.17	127.21	120.28
1	8j	28	GLU	CA-C-O	-5.17	115.39	120.82
1	8o	133	TRP	CB-CG-CD2	-5.17	119.56	126.80
1	8w	102	SER	O-C-N	-5.17	116.64	122.12
1	8x	117	TRP	N-CA-C	5.17	116.91	111.28
1	8y	36	VAL	CA-C-N	-5.17	116.98	120.24
1	8y	36	VAL	C-N-CA	-5.17	116.98	120.24
1	8N	136	LEU	CA-C-N	5.17	125.83	119.99
1	8N	136	LEU	C-N-CA	5.17	125.83	119.99
1	8N	171	THR	N-CA-C	5.17	117.58	111.33
1	8Z	84	HIS	O-C-N	-5.17	114.88	121.29
1	8Z	155	GLN	O-C-N	-5.17	116.99	123.04
1	9v	197	ASP	CA-C-O	-5.17	113.02	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9D	146	SER	CA-CB-OG	5.17	121.44	111.10
1	9N	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	9Q	102	SER	CA-C-N	5.17	127.21	120.28
1	9Q	102	SER	C-N-CA	5.17	127.21	120.28
1	9U	54	THR	CA-CB-CG2	5.17	119.29	110.50
1	9U	223	GLY	N-CA-C	5.17	118.20	112.00
1	Z	61	GLY	N-CA-C	5.17	120.41	111.98
1	a0	125	PRO	N-CA-CB	-5.17	97.82	103.25
1	a2	103	ASP	CA-C-N	5.17	127.76	120.42
1	a2	103	ASP	C-N-CA	5.17	127.76	120.42
1	a7	72	THR	CA-CB-OG1	5.17	117.35	109.60
1	10	118	MET	N-CA-C	5.17	117.81	111.82
1	aa	175	GLU	CA-C-O	5.17	126.88	121.19
1	ab	189	LEU	CA-C-O	5.17	126.25	120.82
1	ab	212	GLU	CA-C-N	5.17	127.20	120.28
1	ab	212	GLU	C-N-CA	5.17	127.20	120.28
1	ai	37	ILE	O-C-N	-5.17	117.11	120.42
1	al	212	GLU	CA-C-O	5.17	126.03	120.55
1	an	47	ALA	N-CA-C	5.17	117.53	110.24
1	12	91	ILE	CA-C-N	5.17	128.51	120.60
1	12	91	ILE	C-N-CA	5.17	128.51	120.60
1	aN	91	ILE	CA-C-N	5.17	130.76	120.94
1	aN	91	ILE	C-N-CA	5.17	130.76	120.94
1	aY	113	GLU	N-CA-C	5.17	116.91	111.28
1	be	121	ASN	CA-C-O	-5.17	114.17	119.49
1	bf	78	ALA	O-C-N	-5.17	116.75	122.07
1	17	159	GLU	CB-CG-CD	5.17	121.39	112.60
1	bi	71	GLU	O-C-N	-5.17	116.64	122.12
1	bi	193	ASN	N-CA-CB	5.17	117.69	110.56
1	bt	39	MET	N-CA-CB	5.17	118.26	110.30
1	by	112	GLN	CG-CD-NE2	-5.17	108.65	116.40
1	bD	94	GLY	N-CA-C	-5.17	105.69	112.82
1	bI	28	GLU	CA-C-N	5.17	127.16	120.44
1	bI	28	GLU	C-N-CA	5.17	127.16	120.44
1	bJ	67	GLN	O-C-N	5.17	127.60	122.12
1	bM	157	PRO	O-C-N	5.17	128.18	122.24
1	bP	133	TRP	CE2-CD2-CE3	5.17	123.97	118.80
1	bQ	142	VAL	CA-C-N	5.17	127.16	120.44
1	bQ	142	VAL	C-N-CA	5.17	127.16	120.44
1	bS	163	ASP	CA-C-N	5.17	127.21	120.28
1	bS	163	ASP	C-N-CA	5.17	127.21	120.28
1	bT	90	PRO	N-CA-CB	5.17	108.68	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c6	13	GLN	CB-CG-CD	5.17	121.39	112.60
1	cf	199	LYS	N-CA-CB	5.17	117.64	109.94
1	ck	95	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	cy	200	THR	CA-C-N	5.17	127.76	120.42
1	cy	200	THR	C-N-CA	5.17	127.76	120.42
1	cA	140	LYS	CA-C-N	5.17	127.76	120.42
1	cA	140	LYS	C-N-CA	5.17	127.76	120.42
1	cG	11	VAL	N-CA-CB	-5.17	105.11	111.00
1	cS	212	GLU	CA-C-N	5.17	127.16	120.44
1	cS	212	GLU	C-N-CA	5.17	127.16	120.44
1	d0	42	ALA	N-CA-C	5.17	116.91	111.28
1	d3	209	ALA	N-CA-C	5.17	121.81	110.80
1	da	38	PRO	CB-CA-C	5.17	120.27	112.21
1	dq	167	ARG	CA-C-N	5.17	127.63	120.29
1	dq	167	ARG	C-N-CA	5.17	127.63	120.29
1	dA	210	THR	CA-C-N	5.17	127.93	120.38
1	dA	210	THR	C-N-CA	5.17	127.93	120.38
1	dG	28	GLU	CA-CB-CG	5.17	124.44	114.10
1	dG	41	SER	N-CA-CB	5.17	118.26	110.30
1	1m	193	ASN	CA-C-N	5.17	128.55	120.75
1	1m	193	ASN	C-N-CA	5.17	128.55	120.75
1	dK	1	PRO	N-CA-C	-5.17	99.18	112.10
1	dL	91	ILE	N-CA-C	5.17	116.67	109.80
1	dO	26	VAL	O-C-N	5.17	126.98	121.91
1	1n	156	GLY	CA-C-N	5.17	124.67	119.19
1	1n	156	GLY	C-N-CA	5.17	124.67	119.19
1	dS	96	MET	CB-CA-C	5.17	117.96	109.90
1	dT	172	LEU	CA-C-N	5.17	127.72	120.28
1	dT	172	LEU	C-N-CA	5.17	127.72	120.28
1	dU	92	GLU	CB-CG-CD	5.17	121.39	112.60
1	dV	36	VAL	N-CA-CB	5.17	117.57	110.54
1	dX	196	PRO	N-CA-C	5.17	123.12	112.47
1	e0	97	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	e7	97	ARG	O-C-N	-5.17	117.15	122.94
1	ef	152	ASP	N-CA-CB	-5.17	103.33	111.39
1	en	4	GLN	CA-C-O	5.17	125.69	119.59
1	es	99	PRO	CA-N-CD	-5.17	104.76	112.00
1	eu	15	ILE	CB-CA-C	5.17	119.74	111.32
1	eu	19	THR	CA-CB-CG2	5.17	119.29	110.50
1	eN	102	SER	CA-C-O	5.17	125.74	119.38
1	eU	229	ARG	NE-CZ-NH1	5.17	126.67	121.50
1	f0	78	ALA	CA-C-O	5.17	126.25	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f3	25	LYS	N-CA-CB	-5.17	102.52	110.12
1	f5	171	THR	OG1-CB-CG2	-5.17	98.96	109.30
1	f5	179	GLN	CA-C-O	5.17	126.03	120.55
1	fo	20	LEU	CA-C-N	5.17	127.20	120.28
1	fo	20	LEU	C-N-CA	5.17	127.20	120.28
1	fo	62	HIS	CA-C-N	5.17	127.46	120.38
1	fo	62	HIS	C-N-CA	5.17	127.46	120.38
1	fr	40	PHE	CA-CB-CG	5.17	118.97	113.80
1	fr	45	GLU	N-CA-C	5.17	118.05	110.30
1	ft	130	TYR	CA-C-N	5.17	127.21	120.28
1	ft	130	TYR	C-N-CA	5.17	127.21	120.28
1	fx	89	GLY	O-C-N	-5.17	116.60	121.77
1	fL	218	CYS	N-CA-C	5.17	119.54	113.23
1	g1	82	ARG	CG-CD-NE	-5.17	100.63	112.00
1	g7	162	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	c	203	LYS	N-CA-C	5.17	119.59	113.28
1	3	106	GLY	CA-C-N	5.17	129.42	120.58
1	3	106	GLY	C-N-CA	5.17	129.42	120.58
1	E	33	SER	CA-C-O	-5.17	115.54	120.97
1	N	228	ALA	CA-C-O	5.17	127.22	120.81
1	9	128	GLU	CA-C-N	5.17	127.07	120.56
1	9	128	GLU	C-N-CA	5.17	127.07	120.56
1	gh	170	LYS	N-CA-C	5.17	116.60	111.07
1	gk	124	ILE	O-C-N	-5.17	115.21	121.10
1	gE	154	ARG	CD-NE-CZ	5.17	131.63	124.40
1	gQ	103	ASP	CA-C-N	5.17	128.77	120.30
1	gQ	103	ASP	C-N-CA	5.17	128.77	120.30
1	h2	100	ARG	CA-C-O	-5.17	115.84	121.89
1	ho	55	MET	CA-C-O	-5.17	115.07	120.55
1	hG	73	ILE	CA-C-N	5.17	127.20	120.28
1	hG	73	ILE	C-N-CA	5.17	127.20	120.28
1	hM	142	VAL	N-CA-CB	5.17	116.24	110.51
1	hR	152	ASP	CA-C-O	-5.17	113.52	119.56
1	hV	73	ILE	CA-C-N	5.17	127.20	120.28
1	hV	73	ILE	C-N-CA	5.17	127.20	120.28
1	i6	219	GLN	CB-CA-C	5.17	118.66	110.19
1	i8	181	VAL	CA-CB-CG2	-5.17	101.62	110.40
1	ib	131	LYS	N-CA-C	5.17	116.60	111.07
1	if	50	GLN	CB-CG-CD	5.17	121.38	112.60
1	ip	225	GLY	N-CA-C	5.17	117.33	111.85
1	iu	168	PHE	CD1-CG-CD2	-5.17	110.85	118.60
1	iF	34	PRO	N-CA-CB	5.17	108.68	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iF	155	GLN	N-CA-C	-5.17	101.56	109.41
1	iI	6	LEU	CA-C-N	5.17	130.76	122.86
1	iI	6	LEU	C-N-CA	5.17	130.76	122.86
1	iN	15	ILE	CA-C-O	5.17	127.33	120.98
1	iS	209	ALA	CA-C-O	5.17	127.19	121.56
1	iW	162	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	j2	197	ASP	CB-CA-C	-5.17	102.21	110.79
1	j5	19	THR	O-C-N	-5.17	116.26	122.15
1	j8	183	ASN	CA-CB-CG	-5.17	107.43	112.60
1	j8	203	LYS	N-CA-C	5.17	116.60	111.07
1	jb	69	LEU	CA-C-N	5.17	127.51	120.54
1	jb	69	LEU	C-N-CA	5.17	127.51	120.54
1	jf	75	GLU	O-C-N	-5.17	116.75	122.07
1	jq	106	GLY	CA-C-O	5.17	124.85	119.06
1	ju	140	LYS	O-C-N	-5.17	116.64	122.12
1	jv	26	VAL	N-CA-CB	5.17	117.57	110.54
1	1W	1	PRO	CA-C-N	5.17	128.01	120.98
1	1W	1	PRO	C-N-CA	5.17	128.01	120.98
1	jz	85	PRO	O-C-N	-5.17	116.60	123.01
1	jB	194	ALA	CA-C-N	5.17	128.51	120.60
1	jB	194	ALA	C-N-CA	5.17	128.51	120.60
1	jC	66	MET	CA-C-N	5.17	127.63	120.29
1	jC	66	MET	C-N-CA	5.17	127.63	120.29
1	jD	121	ASN	CB-CA-C	-5.17	102.27	110.02
1	1X	45	GLU	N-CA-CB	5.17	117.49	109.48
1	1X	67	GLN	CA-C-N	5.17	127.20	120.28
1	1X	67	GLN	C-N-CA	5.17	127.20	120.28
1	jM	202	LEU	N-CA-CB	-5.17	102.53	110.12
1	jP	168	PHE	CA-CB-CG	5.17	118.97	113.80
1	jQ	132	ARG	CD-NE-CZ	5.17	131.63	124.40
1	jR	48	THR	CA-C-N	5.17	126.30	119.84
1	jR	48	THR	C-N-CA	5.17	126.30	119.84
1	k3	142	VAL	O-C-N	-5.17	116.65	121.87
1	k8	97	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	k9	98	GLU	N-CA-C	5.17	116.39	109.83
1	kb	32	PHE	O-C-N	-5.17	115.56	122.38
1	kc	110	THR	CA-C-N	5.17	127.46	120.38
1	kc	110	THR	C-N-CA	5.17	127.46	120.38
1	kf	201	ILE	N-CA-C	5.17	115.38	110.42
1	kg	157	PRO	N-CA-CB	5.17	108.67	103.25
1	kr	179	GLN	CA-C-O	-5.17	115.05	120.63
1	kr	191	VAL	N-CA-C	-5.17	108.09	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ku	72	THR	CA-C-O	5.17	125.90	120.42
1	kA	202	LEU	N-CA-C	5.17	116.91	111.28
1	kF	82	ARG	CA-C-O	5.17	125.04	119.15
1	kG	83	LEU	CA-C-O	5.17	125.91	119.97
1	kL	148	THR	CA-C-N	5.17	129.05	120.94
1	kL	148	THR	C-N-CA	5.17	129.05	120.94
1	l7	91	ILE	CA-CB-CG2	-5.17	101.72	110.50
1	lg	14	ALA	CA-C-N	5.17	129.46	121.71
1	lg	14	ALA	C-N-CA	5.17	129.46	121.71
1	28	75	GLU	CA-C-N	5.17	127.62	120.29
1	28	75	GLU	C-N-CA	5.17	127.62	120.29
1	lu	116	GLY	O-C-N	-5.17	117.18	122.19
1	29	38	PRO	O-C-N	-5.17	115.67	122.64
1	2j	146	SER	N-CA-C	5.17	121.23	109.81
1	2p	100	ARG	O-C-N	-5.17	116.64	122.68
1	2w	69	LEU	CB-CA-C	5.17	119.08	110.81
1	2C	50	GLN	CA-C-O	5.17	126.03	120.55
1	2H	112	GLN	N-CA-C	5.17	117.81	111.82
1	2J	1	PRO	CA-C-N	5.17	130.33	123.10
1	2J	1	PRO	C-N-CA	5.17	130.33	123.10
1	2K	217	ALA	O-C-N	-5.17	116.58	122.93
1	2U	155	GLN	O-C-N	-5.17	117.15	123.19
1	31	17	PRO	O-C-N	-5.17	115.12	122.35
1	33	190	LEU	CA-C-N	5.17	127.07	120.56
1	33	190	LEU	C-N-CA	5.17	127.07	120.56
1	33	195	ASN	O-C-N	5.17	126.62	121.30
1	3a	201	ILE	O-C-N	-5.17	116.85	121.91
1	3b	154	ARG	O-C-N	-5.17	117.69	123.48
1	3c	28	GLU	N-CA-C	5.17	117.31	111.11
1	3m	217	ALA	N-CA-C	5.17	117.78	110.50
1	3n	145	TYR	CA-C-O	5.17	125.68	119.43
1	3G	163	ASP	O-C-N	5.17	128.04	122.15
1	3K	86	VAL	O-C-N	-5.17	116.15	122.97
1	3M	214	MET	CG-SD-CE	-5.17	89.53	100.90
1	44	200	THR	N-CA-C	5.17	117.31	111.11
1	45	109	SER	O-C-N	-5.17	117.17	123.16
1	48	169	TYR	CA-C-O	-5.17	115.37	120.90
1	49	26	VAL	CA-C-N	-5.17	114.05	120.56
1	49	26	VAL	C-N-CA	-5.17	114.05	120.56
1	4i	212	GLU	CA-C-N	5.17	131.06	122.54
1	4i	212	GLU	C-N-CA	5.17	131.06	122.54
1	4z	9	GLN	OE1-CD-NE2	-5.17	117.43	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4z	83	LEU	CA-C-O	5.17	125.39	119.35
1	4A	90	PRO	N-CA-CB	-5.17	98.14	103.15
1	4P	178	SER	CA-C-N	5.17	127.46	120.38
1	4P	178	SER	C-N-CA	5.17	127.46	120.38
1	4R	103	ASP	N-CA-CB	5.17	117.81	110.16
1	57	77	ALA	O-C-N	5.17	127.39	122.07
1	58	50	GLN	N-CA-C	5.17	116.99	111.36
1	5j	28	GLU	N-CA-C	5.17	116.60	111.07
1	5j	193	ASN	N-CA-C	-5.17	107.14	113.50
1	5n	80	TRP	CB-CG-CD2	-5.17	119.57	126.80
1	5q	12	HIS	CA-CB-CG	5.17	118.97	113.80
1	5r	100	ARG	N-CA-CB	5.17	117.83	110.44
1	5s	167	ARG	N-CA-C	5.17	116.91	111.28
1	5t	80	TRP	CH2-CZ2-CE2	5.17	124.22	117.50
1	5u	67	GLN	N-CA-C	5.17	116.91	111.28
1	5B	143	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	5H	65	ALA	O-C-N	-5.17	116.26	122.15
1	5I	73	ILE	N-CA-C	5.17	115.79	110.36
1	65	47	ALA	N-CA-C	5.17	117.93	110.28
1	6m	4	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	6I	100	ARG	O-C-N	-5.17	115.36	122.23
1	6Q	115	ILE	CA-C-O	5.17	125.83	119.58
1	72	146	SER	N-CA-CB	5.17	118.00	110.30
1	7m	55	MET	CA-CB-CG	5.17	124.44	114.10
1	7p	90	PRO	O-C-N	-5.17	116.71	123.06
1	7p	174	ALA	N-CA-C	5.17	116.91	111.28
1	7s	182	LYS	CA-CB-CG	-5.17	103.77	114.10
1	7v	130	TYR	O-C-N	5.17	127.60	122.12
1	7H	159	GLU	CA-C-N	5.17	125.46	119.93
1	7H	159	GLU	C-N-CA	5.17	125.46	119.93
1	7J	25	LYS	N-CA-C	5.17	117.65	111.71
1	7K	5	ASN	O-C-N	-5.17	116.52	122.87
1	7S	60	GLY	CA-C-N	5.17	126.37	120.53
1	7S	60	GLY	C-N-CA	5.17	126.37	120.53
1	7W	197	ASP	O-C-N	5.17	127.46	122.09
1	80	166	ASP	N-CA-CB	-5.17	102.52	110.01
1	8m	65	ALA	N-CA-CB	-5.17	102.51	110.16
1	8m	190	LEU	CA-C-N	5.17	128.77	120.30
1	8m	190	LEU	C-N-CA	5.17	128.77	120.30
1	8u	102	SER	N-CA-C	5.17	117.65	111.71
1	8u	195	ASN	CA-C-N	5.17	125.46	119.47
1	8u	195	ASN	C-N-CA	5.17	125.46	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8C	15	ILE	N-CA-CB	5.17	117.05	110.13
1	8C	221	VAL	CA-CB-CG1	5.17	119.18	110.40
1	8F	62	HIS	N-CA-C	5.17	118.33	111.30
1	8F	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	8J	112	GLN	CA-C-N	5.17	127.47	120.65
1	8J	112	GLN	C-N-CA	5.17	127.47	120.65
1	8O	18	ARG	CA-CB-CG	-5.17	103.77	114.10
1	8Q	67	GLN	N-CA-CB	5.17	117.72	110.12
1	91	115	ILE	N-CA-C	-5.17	105.32	112.50
1	93	87	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	94	173	ARG	N-CA-C	5.17	116.91	111.28
1	95	59	VAL	CA-CB-CG1	5.17	119.18	110.40
1	9b	18	ARG	N-CA-C	5.17	116.60	111.07
1	9c	162	ARG	N-CA-C	5.17	116.99	111.36
1	9g	67	GLN	O-C-N	-5.17	116.64	122.12
1	9k	176	GLN	O-C-N	-5.17	115.94	122.19
1	9l	54	THR	OG1-CB-CG2	-5.17	98.97	109.30
1	9r	195	ASN	CA-CB-CG	-5.17	107.43	112.60
1	9u	167	ARG	CA-C-O	5.17	126.03	120.55
1	9x	167	ARG	CA-C-N	5.17	127.16	120.44
1	9x	167	ARG	C-N-CA	5.17	127.16	120.44
1	9x	188	THR	N-CA-C	-5.17	104.68	111.96
1	9z	41	SER	CA-C-N	5.17	127.72	120.28
1	9z	41	SER	C-N-CA	5.17	127.72	120.28
1	9E	148	THR	N-CA-CB	5.17	118.01	110.88
1	9G	5	ASN	CB-CG-ND2	-5.17	108.65	116.40
1	9G	53	ASN	O-C-N	-5.17	116.64	122.12
1	9M	181	VAL	N-CA-CB	5.17	117.57	110.54
1	9N	194	ALA	CA-C-O	-5.17	115.88	121.87
1	9S	9	GLN	N-CA-C	5.17	117.81	111.82
1	9T	15	ILE	O-C-N	-5.17	117.78	122.79
1	a3	51	ASP	CA-C-O	5.17	125.90	120.42
1	af	28	GLU	CA-C-O	5.17	125.04	119.15
1	ak	148	THR	O-C-N	-5.17	116.28	122.27
1	az	65	ALA	N-CA-C	5.17	117.31	111.11
1	aB	84	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	aG	137	GLY	CA-C-N	5.17	127.16	120.44
1	aG	137	GLY	C-N-CA	5.17	127.16	120.44
1	aU	184	TRP	CH2-CZ2-CE2	-5.17	110.78	117.50
1	aW	226	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	b0	141	ILE	O-C-N	-5.17	116.77	121.94
1	b4	3	VAL	O-C-N	-5.17	117.87	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bb	12	HIS	ND1-CE1-NE2	5.17	113.57	108.40
1	bb	166	ASP	CA-C-N	5.17	127.20	120.28
1	bb	166	ASP	C-N-CA	5.17	127.20	120.28
1	bc	211	LEU	CA-C-N	5.17	127.52	120.54
1	bc	211	LEU	C-N-CA	5.17	127.52	120.54
1	bg	229	ARG	CB-CA-C	5.17	120.79	109.99
1	bo	142	VAL	CA-C-O	5.17	126.65	121.17
1	bs	72	THR	N-CA-CB	5.17	117.64	109.94
1	bQ	22	ALA	CA-C-N	5.17	127.16	120.44
1	bQ	22	ALA	C-N-CA	5.17	127.16	120.44
1	bY	9	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	bY	214	MET	CG-SD-CE	-5.17	89.53	100.90
1	bZ	71	GLU	CB-CG-CD	5.17	121.38	112.60
1	cf	229	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	1d	159	GLU	CB-CG-CD	-5.17	103.82	112.60
1	1d	167	ARG	NE-CZ-NH2	5.17	123.85	119.20
1	ch	110	THR	N-CA-C	-5.17	101.44	109.24
1	ck	27	VAL	CA-CB-CG1	5.17	119.18	110.40
1	cl	103	ASP	CA-C-O	-5.17	114.94	120.42
1	1f	155	GLN	OE1-CD-NE2	-5.17	117.43	122.60
1	1f	188	THR	CA-CB-OG1	5.17	117.35	109.60
1	cA	143	ARG	N-CA-C	5.17	116.91	111.28
1	cQ	21	ASN	N-CA-C	-5.17	105.54	111.07
1	cT	84	HIS	CA-C-N	5.17	126.30	119.84
1	cT	84	HIS	C-N-CA	5.17	126.30	119.84
1	cV	83	LEU	CA-C-N	5.17	129.10	122.64
1	cV	83	LEU	C-N-CA	5.17	129.10	122.64
1	1i	122	PRO	CA-C-N	5.17	125.17	119.90
1	1i	122	PRO	C-N-CA	5.17	125.17	119.90
1	d7	76	GLU	N-CA-CB	5.17	117.50	110.01
1	db	67	GLN	CA-C-N	5.17	127.47	120.44
1	db	67	GLN	C-N-CA	5.17	127.47	120.44
1	1k	5	ASN	OD1-CG-ND2	5.17	127.77	122.60
1	dp	153	ILE	N-CA-C	5.17	117.07	109.63
1	dr	132	ARG	CA-C-N	5.17	127.16	120.44
1	dr	132	ARG	C-N-CA	5.17	127.16	120.44
1	dw	83	LEU	N-CA-CB	5.17	117.81	110.16
1	1l	53	ASN	CA-CB-CG	-5.17	107.43	112.60
1	dy	177	ALA	N-CA-C	5.17	117.20	110.43
1	dD	112	GLN	N-CA-C	5.17	117.31	111.11
1	dV	31	ALA	CA-C-N	5.17	131.73	122.38
1	dV	31	ALA	C-N-CA	5.17	131.73	122.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	156	GLY	CA-C-N	5.17	124.96	119.28
1	e6	156	GLY	C-N-CA	5.17	124.96	119.28
1	e8	116	GLY	CA-C-O	5.17	126.14	120.66
1	ef	135	ILE	CA-C-O	5.17	126.42	121.05
1	el	96	MET	CA-C-O	5.17	125.72	119.31
1	ep	185	MET	CA-C-N	5.17	127.16	120.44
1	ep	185	MET	C-N-CA	5.17	127.16	120.44
1	1r	219	GLN	O-C-N	-5.17	116.18	122.22
1	ey	122	PRO	N-CD-CG	-5.17	97.60	103.80
1	eB	49	PRO	O-C-N	-5.17	116.30	122.24
1	eG	114	GLN	CB-CG-CD	-5.17	103.82	112.60
1	eK	213	GLU	CA-C-N	5.17	127.16	120.44
1	eK	213	GLU	C-N-CA	5.17	127.16	120.44
1	eN	105	ALA	N-CA-CB	-5.17	102.35	110.46
1	eW	10	MET	N-CA-C	5.17	117.96	110.42
1	f5	219	GLN	OE1-CD-NE2	5.17	127.77	122.60
1	1v	51	ASP	N-CA-C	5.17	116.91	111.28
1	fa	162	ARG	CA-C-O	-5.17	114.26	120.10
1	ff	79	GLU	CA-C-N	5.17	127.72	120.28
1	ff	79	GLU	C-N-CA	5.17	127.72	120.28
1	fq	167	ARG	CA-C-N	5.17	127.63	120.29
1	fq	167	ARG	C-N-CA	5.17	127.63	120.29
1	fF	122	PRO	CA-C-N	5.17	125.08	119.76
1	fF	122	PRO	C-N-CA	5.17	125.08	119.76
1	fG	119	THR	CA-CB-CG2	5.17	119.28	110.50
1	fV	11	VAL	N-CA-CB	5.17	120.05	112.35
1	fV	149	SER	N-CA-CB	5.17	118.68	110.57
1	fW	196	PRO	N-CD-CG	5.17	110.95	103.20
1	g1	22	ALA	N-CA-CB	5.17	117.71	110.12
1	0	81	ASP	N-CA-C	5.17	117.81	111.82
1	b	226	HIS	CA-CB-CG	5.17	118.97	113.80
1	h	15	ILE	CA-C-N	5.17	127.83	120.49
1	h	15	ILE	C-N-CA	5.17	127.83	120.49
1	i	149	SER	CA-C-N	5.17	127.76	120.42
1	i	149	SER	C-N-CA	5.17	127.76	120.42
1	j	215	MET	CA-C-N	5.17	127.63	120.29
1	j	215	MET	C-N-CA	5.17	127.63	120.29
1	k	77	ALA	CA-C-N	5.17	127.16	120.44
1	k	77	ALA	C-N-CA	5.17	127.16	120.44
1	r	48	THR	CA-C-N	5.17	125.21	119.32
1	r	48	THR	C-N-CA	5.17	125.21	119.32
1	w	28	GLU	CA-C-N	5.17	127.63	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	w	28	GLU	C-N-CA	5.17	127.63	120.29
1	C	89	GLY	CA-C-N	5.17	126.30	119.84
1	C	89	GLY	C-N-CA	5.17	126.30	119.84
1	D	120	HIS	CG-CD2-NE2	5.17	112.37	107.20
1	H	95	GLN	O-C-N	-5.17	115.94	122.19
1	M	23	TRP	CB-CG-CD1	-5.17	119.15	126.90
1	W	90	PRO	CB-CA-C	5.17	118.12	111.56
1	8	64	ALA	CA-C-N	5.17	127.20	120.28
1	8	64	ALA	C-N-CA	5.17	127.20	120.28
1	ge	42	ALA	CA-C-N	5.17	130.18	121.14
1	ge	42	ALA	C-N-CA	5.17	130.18	121.14
1	gk	111	LEU	CA-C-O	-5.17	115.08	120.55
1	gq	167	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	gT	130	TYR	O-C-N	-5.17	116.65	122.12
1	gU	181	VAL	O-C-N	-5.17	116.53	121.90
1	gX	15	ILE	N-CA-CB	5.17	116.99	111.46
1	h3	62	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	1H	168	PHE	N-CA-C	-5.17	105.56	111.14
1	hk	75	GLU	CB-CG-CD	5.17	121.38	112.60
1	i2	24	VAL	CA-C-N	5.17	127.16	120.44
1	i2	24	VAL	C-N-CA	5.17	127.16	120.44
1	i2	131	LYS	CB-CA-C	-5.17	102.22	110.79
1	i3	87	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	i5	3	VAL	O-C-N	-5.17	117.87	123.14
1	ig	154	ARG	CA-CB-CG	5.17	124.43	114.10
1	iv	145	TYR	CB-CA-C	5.17	118.99	110.88
1	iT	92	GLU	CA-C-N	5.17	125.85	120.12
1	iT	92	GLU	C-N-CA	5.17	125.85	120.12
1	iW	168	PHE	CE1-CZ-CE2	5.17	129.30	120.00
1	1V	142	VAL	CA-C-N	5.17	127.20	120.28
1	1V	142	VAL	C-N-CA	5.17	127.20	120.28
1	jB	220	GLY	CA-C-N	5.17	130.19	123.06
1	jB	220	GLY	C-N-CA	5.17	130.19	123.06
1	jQ	109	SER	O-C-N	-5.17	117.16	123.10
1	kj	100	ARG	CA-C-N	5.17	125.83	119.99
1	kj	100	ARG	C-N-CA	5.17	125.83	119.99
1	kr	219	GLN	CG-CD-NE2	5.17	124.15	116.40
1	kJ	120	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	kK	171	THR	CA-C-N	5.17	128.16	120.31
1	kK	171	THR	C-N-CA	5.17	128.16	120.31
1	kO	191	VAL	N-CA-C	5.17	119.68	112.50
1	kP	48	THR	CA-C-N	5.17	124.96	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kP	48	THR	C-N-CA	5.17	124.96	119.28
1	kX	160	PRO	N-CA-C	5.17	119.32	111.11
1	lx	173	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	lJ	172	LEU	CA-C-N	5.17	127.16	120.44
1	lJ	172	LEU	C-N-CA	5.17	127.16	120.44
1	2a	41	SER	N-CA-CB	5.17	117.50	110.01
1	2p	48	THR	CA-C-N	5.17	125.21	119.32
1	2p	48	THR	C-N-CA	5.17	125.21	119.32
1	3w	89	GLY	CA-C-N	5.17	125.16	119.89
1	3w	89	GLY	C-N-CA	5.17	125.16	119.89
1	3D	5	ASN	O-C-N	-5.17	117.15	123.19
1	3G	199	LYS	N-CA-C	5.17	117.81	111.82
1	42	96	MET	CG-SD-CE	-5.17	89.54	100.90
1	4j	18	ARG	CA-C-N	5.17	127.62	120.29
1	4j	18	ARG	C-N-CA	5.17	127.62	120.29
1	4l	132	ARG	O-C-N	-5.17	115.92	122.27
1	4r	162	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	4w	41	SER	CA-C-N	5.17	127.20	120.28
1	4w	41	SER	C-N-CA	5.17	127.20	120.28
1	4O	20	LEU	N-CA-C	5.17	116.91	111.28
1	4R	29	GLU	N-CA-C	5.17	116.60	111.07
1	4X	153	ILE	CA-C-N	5.17	128.04	120.71
1	4X	153	ILE	C-N-CA	5.17	128.04	120.71
1	58	175	GLU	CA-C-O	-5.17	115.93	121.56
1	5g	132	ARG	CG-CD-NE	-5.17	100.64	112.00
1	5j	5	ASN	N-CA-CB	5.17	119.22	110.49
1	5F	91	ILE	CB-CA-C	5.17	118.96	111.88
1	5L	24	VAL	O-C-N	-5.17	116.86	121.87
1	5M	143	ARG	N-CA-C	-5.17	105.73	111.36
1	6o	139	ASN	N-CA-C	5.17	116.91	111.28
1	6v	181	VAL	O-C-N	-5.17	116.85	121.91
1	6J	159	GLU	CA-C-N	5.17	125.17	119.90
1	6J	159	GLU	C-N-CA	5.17	125.17	119.90
1	6Q	87	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	6V	22	ALA	CA-C-N	5.17	127.15	120.44
1	6V	22	ALA	C-N-CA	5.17	127.15	120.44
1	7n	32	PHE	CA-C-O	5.17	127.17	121.39
1	7q	96	MET	O-C-N	-5.17	117.28	123.27
1	7C	195	ASN	O-C-N	-5.17	115.27	121.31
1	7J	219	GLN	OE1-CD-NE2	-5.17	117.44	122.60
1	7X	176	GLN	CA-C-O	5.17	125.39	119.35
1	83	52	LEU	O-C-N	-5.17	116.64	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8g	221	VAL	CA-CB-CG1	5.17	119.18	110.40
1	8h	10	MET	O-C-N	-5.17	116.59	122.89
1	8i	57	ASN	CA-CB-CG	5.17	117.77	112.60
1	8s	129	ILE	N-CA-C	5.17	115.89	110.62
1	8w	171	THR	CA-C-O	5.17	124.82	119.14
1	8x	110	THR	N-CA-CB	5.17	119.04	110.52
1	8A	173	ARG	N-CA-CB	-5.17	102.27	110.28
1	9p	205	LEU	N-CA-C	5.17	116.91	111.28
1	9G	207	PRO	N-CA-CB	5.17	108.67	103.25
1	9L	208	ALA	CA-C-N	5.17	128.18	120.90
1	9L	208	ALA	C-N-CA	5.17	128.18	120.90
1	aN	128	GLU	CA-C-N	5.17	127.07	120.56
1	aN	128	GLU	C-N-CA	5.17	127.07	120.56
1	aQ	71	GLU	O-C-N	-5.17	116.64	122.12
1	15	104	ILE	N-CA-C	5.17	115.89	110.62
1	aZ	167	ARG	NH1-CZ-NH2	-5.17	112.58	119.30
1	bo	67	GLN	O-C-N	-5.17	116.75	122.07
1	19	187	GLU	CA-CB-CG	5.17	124.43	114.10
1	bQ	40	PHE	CA-CB-CG	-5.17	108.64	113.80
1	bU	80	TRP	CA-C-N	5.17	127.15	120.44
1	bU	80	TRP	C-N-CA	5.17	127.15	120.44
1	bV	48	THR	N-CA-CB	5.17	115.33	109.49
1	bV	56	LEU	CA-C-O	5.17	126.03	120.55
1	1d	80	TRP	CA-C-N	5.17	127.16	120.44
1	1d	80	TRP	C-N-CA	5.17	127.16	120.44
1	cs	12	HIS	CG-CD2-NE2	5.17	112.36	107.20
1	cE	55	MET	CA-C-O	5.17	125.89	120.42
1	d0	192	GLN	CA-C-N	5.17	127.20	120.28
1	d0	192	GLN	C-N-CA	5.17	127.20	120.28
1	d6	64	ALA	O-C-N	-5.17	116.65	122.12
1	dv	132	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	dI	217	ALA	CA-C-O	-5.17	115.93	121.56
1	dK	48	THR	N-CA-CB	5.17	116.91	109.78
1	dS	117	TRP	O-C-N	-5.17	116.26	122.15
1	dS	156	GLY	CA-C-O	-5.17	116.20	121.62
1	dU	113	GLU	N-CA-C	5.17	116.99	111.36
1	ei	146	SER	CA-C-N	5.17	126.30	119.84
1	ei	146	SER	C-N-CA	5.17	126.30	119.84
1	ep	201	ILE	O-C-N	-5.17	116.86	121.87
1	eE	145	TYR	CA-C-O	5.17	126.02	120.70
1	eF	38	PRO	CA-C-O	5.17	126.93	119.34
1	f4	143	ARG	CA-C-O	5.17	125.74	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f9	22	ALA	CA-C-N	5.17	127.20	120.28
1	f9	22	ALA	C-N-CA	5.17	127.20	120.28
1	fj	92	GLU	CA-C-O	-5.17	113.33	118.34
1	fG	42	ALA	CA-C-O	5.17	126.03	120.55
1	g6	143	ARG	CA-C-N	5.17	127.16	120.44
1	g6	143	ARG	C-N-CA	5.17	127.16	120.44
1	d	224	PRO	CA-C-N	5.17	129.00	121.05
1	d	224	PRO	C-N-CA	5.17	129.00	121.05
1	e	92	GLU	O-C-N	-5.17	116.79	122.06
1	j	229	ARG	NE-CZ-NH2	-5.17	114.55	119.20
1	w	79	GLU	CA-C-N	5.17	127.47	120.65
1	w	79	GLU	C-N-CA	5.17	127.47	120.65
1	x	203	LYS	CA-CB-CG	5.17	124.43	114.10
1	B	35	GLU	N-CA-C	5.17	116.91	111.28
1	6	57	ASN	OD1-CG-ND2	-5.17	117.44	122.60
1	gh	19	THR	N-CA-CB	5.16	117.71	110.12
1	gj	209	ALA	O-C-N	-5.16	116.59	122.89
1	gl	24	VAL	CA-C-O	-5.16	115.70	121.17
1	gv	19	THR	CA-CB-OG1	-5.16	101.85	109.60
1	gA	35	GLU	CA-C-O	5.16	125.74	119.49
1	gB	40	PHE	CA-C-O	-5.16	115.08	120.55
1	gB	100	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	gV	165	VAL	CA-C-N	5.16	127.65	120.63
1	gV	165	VAL	C-N-CA	5.16	127.65	120.63
1	gZ	26	VAL	N-CA-C	5.16	115.89	110.62
1	h2	26	VAL	O-C-N	5.16	127.54	121.96
1	h6	68	MET	N-CA-C	-5.16	105.73	111.36
1	he	67	GLN	N-CA-C	5.16	116.91	111.28
1	he	140	LYS	N-CA-CB	5.16	117.50	110.01
1	hf	44	SER	N-CA-C	-5.16	106.38	113.30
1	hg	63	GLN	N-CA-CB	5.16	117.80	110.16
1	hj	18	ARG	N-CA-C	5.16	116.59	111.07
1	hr	219	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	hG	23	TRP	CB-CG-CD1	-5.16	119.15	126.90
1	hT	179	GLN	N-CA-C	5.16	116.60	111.07
1	hX	54	THR	CA-CB-OG1	5.16	117.34	109.60
1	hY	127	GLY	CA-C-N	5.16	127.62	120.29
1	hY	127	GLY	C-N-CA	5.16	127.62	120.29
1	ie	82	ARG	NE-CZ-NH2	-5.16	114.55	119.20
1	ig	165	VAL	CA-C-O	5.16	126.32	120.85
1	ik	202	LEU	CA-C-O	-5.16	115.08	120.55
1	im	195	ASN	O-C-N	-5.16	115.98	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ip	167	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	ix	58	THR	N-CA-CB	5.16	117.56	110.07
1	ix	200	THR	N-CA-CB	5.16	117.56	110.07
1	iD	130	TYR	O-C-N	-5.16	116.26	122.15
1	iD	205	LEU	N-CA-C	-5.16	105.73	111.36
1	iL	167	ARG	CA-C-O	5.16	125.89	120.42
1	iM	137	GLY	CA-C-O	-5.16	115.73	121.05
1	iN	142	VAL	CA-C-N	5.16	127.20	120.28
1	iN	142	VAL	C-N-CA	5.16	127.20	120.28
1	1S	135	ILE	N-CA-CB	5.16	117.56	110.54
1	iV	193	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	iY	135	ILE	CA-C-N	5.16	127.20	120.28
1	iY	135	ILE	C-N-CA	5.16	127.20	120.28
1	j8	20	LEU	CA-C-N	5.16	127.15	120.44
1	j8	20	LEU	C-N-CA	5.16	127.15	120.44
1	jd	99	PRO	N-CA-C	5.16	119.30	111.19
1	jC	23	TRP	CA-C-N	5.16	127.15	120.70
1	jC	23	TRP	C-N-CA	5.16	127.15	120.70
1	jI	164	TYR	O-C-N	-5.16	116.75	122.07
1	jJ	184	TRP	N-CA-CB	5.16	117.95	110.26
1	jR	14	ALA	O-C-N	5.16	128.79	122.96
1	jU	100	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	k0	12	HIS	N-CA-C	5.16	117.38	109.07
1	20	186	THR	N-CA-C	5.16	116.91	111.28
1	kf	97	ARG	N-CA-C	5.16	116.14	108.60
1	ki	116	GLY	CA-C-O	-5.16	115.42	121.00
1	22	21	ASN	CA-CB-CG	5.16	117.76	112.60
1	kv	96	MET	CG-SD-CE	-5.16	89.54	100.90
1	kG	177	ALA	N-CA-CB	-5.16	102.03	109.83
1	kL	114	GLN	CA-C-N	5.16	127.81	120.53
1	kL	114	GLN	C-N-CA	5.16	127.81	120.53
1	kV	167	ARG	NH1-CZ-NH2	5.16	126.01	119.30
1	kW	82	ARG	CA-C-N	5.16	127.15	120.44
1	kW	82	ARG	C-N-CA	5.16	127.15	120.44
1	kW	226	HIS	CG-CD2-NE2	5.16	112.36	107.20
1	kX	94	GLY	CA-C-O	5.16	124.75	119.02
1	l3	99	PRO	N-CA-CB	-5.16	99.17	103.30
1	lo	52	LEU	N-CA-C	5.16	117.31	111.11
1	lp	62	HIS	ND1-CG-CD2	5.16	111.26	106.10
1	lq	164	TYR	O-C-N	-5.16	116.26	122.15
1	lv	98	GLU	N-CA-C	-5.16	101.19	109.04
1	lB	67	GLN	CB-CG-CD	5.16	121.38	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lF	61	GLY	CA-C-N	5.16	129.47	122.19
1	lF	61	GLY	C-N-CA	5.16	129.47	122.19
1	2g	109	SER	CA-C-N	5.16	128.20	120.87
1	2g	109	SER	C-N-CA	5.16	128.20	120.87
1	2p	142	VAL	CA-CB-CG1	5.16	119.18	110.40
1	2x	64	ALA	CA-C-N	5.16	127.20	120.28
1	2x	64	ALA	C-N-CA	5.16	127.20	120.28
1	2E	209	ALA	CB-CA-C	5.16	118.52	110.67
1	2M	107	THR	CA-C-O	-5.16	113.86	120.31
1	2R	145	TYR	CB-CG-CD2	-5.16	113.06	120.80
1	2Z	120	HIS	O-C-N	-5.16	116.35	122.65
1	39	5	ASN	N-CA-C	5.16	117.31	111.11
1	39	48	THR	CA-C-N	5.16	126.30	119.84
1	39	48	THR	C-N-CA	5.16	126.30	119.84
1	3n	51	ASP	N-CA-C	5.16	116.60	111.07
1	3n	57	ASN	CA-C-N	5.16	127.20	120.28
1	3n	57	ASN	C-N-CA	5.16	127.20	120.28
1	3p	84	HIS	CA-C-O	-5.16	114.59	119.55
1	3G	55	MET	N-CA-C	5.16	116.59	111.07
1	3L	12	HIS	O-C-N	-5.16	117.16	123.10
1	3U	41	SER	N-CA-C	5.16	116.91	111.28
1	3Z	124	ILE	N-CA-CB	5.16	117.58	111.23
1	46	182	LYS	CA-C-O	5.16	125.91	119.97
1	4b	119	THR	N-CA-CB	5.16	118.10	110.56
1	4i	141	ILE	N-CA-CB	5.16	117.56	110.54
1	4n	12	HIS	O-C-N	-5.16	116.19	123.11
1	4t	1	PRO	N-CA-C	-5.16	99.19	112.10
1	4B	130	TYR	CA-C-N	5.16	127.20	120.28
1	4B	130	TYR	C-N-CA	5.16	127.20	120.28
1	4E	78	ALA	CA-C-O	5.16	126.02	120.55
1	4V	42	ALA	N-CA-C	5.16	117.31	111.11
1	50	126	VAL	N-CA-C	5.16	116.51	110.62
1	53	19	THR	N-CA-C	5.16	116.91	111.28
1	57	82	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	5a	167	ARG	CD-NE-CZ	5.16	131.63	124.40
1	5j	70	LYS	CA-C-N	5.16	127.20	120.28
1	5j	70	LYS	C-N-CA	5.16	127.20	120.28
1	5w	176	GLN	O-C-N	5.16	128.70	122.35
1	5x	44	SER	CA-C-N	5.16	128.18	120.95
1	5x	44	SER	C-N-CA	5.16	128.18	120.95
1	5C	121	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	5C	152	ASP	CA-C-N	-5.16	116.55	122.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	152	ASP	C-N-CA	-5.16	116.55	122.95
1	5E	194	ALA	O-C-N	5.16	129.10	123.01
1	5G	148	THR	CA-C-N	5.16	131.40	121.54
1	5G	148	THR	C-N-CA	5.16	131.40	121.54
1	5U	210	THR	CA-C-N	5.16	127.62	120.29
1	5U	210	THR	C-N-CA	5.16	127.62	120.29
1	6r	163	ASP	N-CA-C	-5.16	105.56	111.14
1	6A	79	GLU	CA-C-O	5.16	125.91	119.97
1	6F	24	VAL	CA-C-O	5.16	126.32	120.95
1	6J	6	LEU	O-C-N	-5.16	116.51	122.09
1	6M	162	ARG	CA-C-O	-5.16	115.40	120.82
1	6U	161	PHE	N-CA-C	-5.16	105.65	111.28
1	7b	145	TYR	CB-CG-CD2	5.16	128.54	120.80
1	7j	66	MET	O-C-N	-5.16	116.65	122.12
1	7o	16	SER	CA-C-O	-5.16	114.96	120.23
1	7A	83	LEU	CA-C-O	5.16	125.91	119.97
1	7F	229	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	7K	220	GLY	N-CA-C	5.16	121.67	112.22
1	7L	223	GLY	CA-C-O	-5.16	114.14	121.52
1	7P	62	HIS	CB-CG-ND1	-5.16	114.96	122.70
1	7Q	111	LEU	N-CA-C	5.16	116.91	111.28
1	7V	134	ILE	CA-C-O	-5.16	115.58	120.95
1	7Y	17	PRO	N-CA-C	5.16	121.30	113.81
1	7Y	26	VAL	N-CA-CB	5.16	116.59	110.55
1	87	134	ILE	CB-CA-C	5.16	118.58	111.97
1	89	172	LEU	O-C-N	-5.16	116.65	122.12
1	8m	31	ALA	N-CA-C	5.16	121.80	110.80
1	8s	139	ASN	O-C-N	-5.16	116.65	122.12
1	8w	5	ASN	N-CA-CB	5.16	118.25	110.30
1	8z	125	PRO	CA-C-N	5.16	127.26	120.60
1	8z	125	PRO	C-N-CA	5.16	127.26	120.60
1	8H	4	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	8H	36	VAL	CA-C-N	5.16	123.49	120.24
1	8H	36	VAL	C-N-CA	5.16	123.49	120.24
1	8K	85	PRO	CA-C-N	5.16	127.06	120.56
1	8K	85	PRO	C-N-CA	5.16	127.06	120.56
1	8O	16	SER	CA-C-O	-5.16	114.96	120.23
1	91	167	ARG	CA-C-N	5.16	127.20	120.28
1	91	167	ARG	C-N-CA	5.16	127.20	120.28
1	9p	126	VAL	N-CA-C	5.16	117.50	111.05
1	9x	12	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	9P	55	MET	N-CA-C	-5.16	105.56	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9R	62	HIS	CB-CG-CD2	-5.16	124.49	131.20
1	9S	139	ASN	CA-C-N	5.16	127.20	120.28
1	9S	139	ASN	C-N-CA	5.16	127.20	120.28
1	9T	28	GLU	N-CA-C	5.16	116.59	111.07
1	9Y	103	ASP	CB-CA-C	-5.16	102.07	110.85
1	a3	89	GLY	CA-C-N	5.16	125.17	119.90
1	a3	89	GLY	C-N-CA	5.16	125.17	119.90
1	a3	137	GLY	O-C-N	-5.16	116.65	122.28
1	af	185	MET	CA-C-O	5.16	126.02	120.55
1	aj	180	GLU	CB-CA-C	-5.16	102.55	110.81
1	at	52	LEU	CA-C-N	5.16	127.15	120.44
1	at	52	LEU	C-N-CA	5.16	127.15	120.44
1	aA	64	ALA	CA-C-N	5.16	127.62	120.29
1	aA	64	ALA	C-N-CA	5.16	127.62	120.29
1	aA	184	TRP	CE2-CD2-CG	-5.16	101.00	107.20
1	aM	136	LEU	CA-C-N	5.16	125.71	119.98
1	aM	136	LEU	C-N-CA	5.16	125.71	119.98
1	aT	45	GLU	CG-CD-OE1	5.16	130.28	118.40
1	15	95	GLN	CA-C-N	5.16	131.40	121.54
1	15	95	GLN	C-N-CA	5.16	131.40	121.54
1	b5	180	GLU	N-CA-C	5.16	117.58	111.33
1	bl	148	THR	CA-C-O	5.16	127.19	121.56
1	bn	116	GLY	O-C-N	-5.16	117.16	122.17
1	bp	113	GLU	O-C-N	5.16	127.59	122.12
1	bE	132	ARG	NE-CZ-NH2	-5.16	114.55	119.20
1	bG	53	ASN	N-CA-C	5.16	116.91	111.28
1	bQ	114	GLN	CA-C-N	5.16	128.81	120.55
1	bQ	114	GLN	C-N-CA	5.16	128.81	120.55
1	bR	148	THR	N-CA-CB	5.16	119.22	110.49
1	c1	140	LYS	N-CA-CB	5.16	117.71	110.12
1	c2	80	TRP	N-CA-C	5.16	116.91	111.28
1	c5	117	TRP	N-CA-C	5.16	116.91	111.28
1	c6	132	ARG	CB-CG-CD	5.16	123.18	111.30
1	c7	163	ASP	CA-C-O	-5.16	114.03	119.97
1	ch	163	ASP	N-CA-CB	-5.16	101.98	110.40
1	cl	180	GLU	N-CA-C	5.16	117.65	111.71
1	cr	5	ASN	OD1-CG-ND2	5.16	127.76	122.60
1	cy	84	HIS	N-CA-C	5.16	117.20	110.08
1	cE	24	VAL	CA-CB-CG2	-5.16	101.62	110.40
1	cG	230	VAL	O-C-N	-5.16	117.60	123.18
1	cJ	135	ILE	CA-C-N	5.16	127.45	120.38
1	cJ	135	ILE	C-N-CA	5.16	127.45	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	20	LEU	CA-C-N	5.16	127.15	120.44
1	cQ	20	LEU	C-N-CA	5.16	127.15	120.44
1	1h	178	SER	CA-C-O	-5.16	116.08	121.55
1	cU	216	THR	CA-C-O	5.16	126.02	120.55
1	d1	53	ASN	CA-CB-CG	-5.16	107.44	112.60
1	d6	32	PHE	CA-CB-CG	-5.16	108.64	113.80
1	db	59	VAL	O-C-N	-5.16	116.72	122.66
1	db	180	GLU	CA-CB-CG	5.16	124.42	114.10
1	dg	106	GLY	O-C-N	-5.16	115.99	122.70
1	di	173	ARG	CA-C-N	5.16	127.62	120.29
1	di	173	ARG	C-N-CA	5.16	127.62	120.29
1	dp	30	LYS	CA-C-N	5.16	131.40	121.54
1	dp	30	LYS	C-N-CA	5.16	131.40	121.54
1	ds	16	SER	N-CA-CB	5.16	117.96	110.32
1	ds	23	TRP	CB-CG-CD1	-5.16	119.16	126.90
1	ds	167	ARG	CA-C-N	5.16	127.51	120.54
1	ds	167	ARG	C-N-CA	5.16	127.51	120.54
1	1m	120	HIS	CA-CB-CG	5.16	118.96	113.80
1	dJ	217	ALA	N-CA-C	5.16	117.19	110.53
1	dM	179	GLN	CA-C-N	5.16	127.46	120.44
1	dM	179	GLN	C-N-CA	5.16	127.46	120.44
1	dN	55	MET	N-CA-C	5.16	116.91	111.28
1	dQ	62	HIS	ND1-CG-CD2	5.16	111.26	106.10
1	dQ	180	GLU	CA-C-O	5.16	125.91	119.97
1	dT	202	LEU	O-C-N	-5.16	116.65	122.12
1	dV	228	ALA	N-CA-C	5.16	117.35	110.53
1	ek	54	THR	N-CA-CB	5.16	117.50	110.01
1	eC	188	THR	CA-CB-OG1	5.16	117.34	109.60
1	1s	37	ILE	CA-C-N	5.16	124.48	118.85
1	1s	37	ILE	C-N-CA	5.16	124.48	118.85
1	eO	122	PRO	N-CA-CB	5.16	108.28	102.60
1	eQ	194	ALA	O-C-N	-5.16	116.71	122.75
1	f4	71	GLU	CA-C-O	5.16	126.02	120.55
1	f4	96	MET	CA-C-O	5.16	126.53	120.75
1	f6	17	PRO	CA-C-N	5.16	127.62	120.29
1	f6	17	PRO	C-N-CA	5.16	127.62	120.29
1	fh	156	GLY	O-C-N	-5.16	116.61	121.77
1	fh	199	LYS	O-C-N	-5.16	115.51	122.43
1	fk	209	ALA	N-CA-C	5.16	117.78	110.50
1	fs	55	MET	N-CA-C	5.16	117.58	111.33
1	fx	221	VAL	CA-C-O	5.16	126.25	119.85
1	fz	170	LYS	CA-C-O	5.16	125.97	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fA	64	ALA	N-CA-C	-5.16	105.34	110.97
1	fB	4	GLN	CA-C-N	5.16	128.20	120.87
1	fB	4	GLN	C-N-CA	5.16	128.20	120.87
1	fQ	63	GLN	CB-CA-C	5.16	120.18	110.63
1	fU	4	GLN	N-CA-C	5.16	117.79	110.10
1	g3	53	ASN	CA-CB-CG	-5.16	107.44	112.60
1	a	185	MET	CG-SD-CE	-5.16	89.54	100.90
1	f	86	VAL	N-CA-C	5.16	115.90	108.93
1	i	27	VAL	CB-CA-C	-5.16	105.09	112.22
1	v	152	ASP	N-CA-C	5.16	119.22	113.02
1	D	179	GLN	CA-C-N	5.16	127.62	120.29
1	D	179	GLN	C-N-CA	5.16	127.62	120.29
1	F	33	SER	CA-C-O	-5.16	114.62	120.46
1	K	124	ILE	O-C-N	-5.16	115.63	121.57
1	4	101	GLY	CA-C-O	5.16	126.07	120.75
1	X	217	ALA	N-CA-C	5.16	116.59	111.07
1	9	162	ARG	CA-CB-CG	5.16	124.43	114.10
1	gq	166	ASP	N-CA-CB	-5.16	102.53	110.01
1	gW	4	GLN	CB-CA-C	5.16	118.65	111.63
1	h1	133	TRP	CB-CG-CD2	-5.16	119.57	126.80
1	h9	106	GLY	CA-C-O	5.16	125.00	119.06
1	hh	163	ASP	CA-C-N	5.16	127.51	120.54
1	hh	163	ASP	C-N-CA	5.16	127.51	120.54
1	hC	148	THR	OG1-CB-CG2	-5.16	98.97	109.30
1	hH	193	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	i3	171	THR	N-CA-C	-5.16	105.73	112.23
1	ie	87	HIS	CA-CB-CG	5.16	118.96	113.80
1	ip	1	PRO	CA-C-N	5.16	129.43	122.93
1	ip	1	PRO	C-N-CA	5.16	129.43	122.93
1	iR	154	ARG	NE-CZ-NH2	-5.16	114.55	119.20
1	iW	74	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	jm	195	ASN	N-CA-C	5.16	117.02	109.84
1	jL	135	ILE	CA-C-N	5.16	127.46	120.44
1	jL	135	ILE	C-N-CA	5.16	127.46	120.44
1	jR	71	GLU	N-CA-C	5.16	116.91	111.28
1	jV	198	CYS	CA-C-N	5.16	129.46	120.68
1	jV	198	CYS	C-N-CA	5.16	129.46	120.68
1	kl	183	ASN	CA-C-N	5.16	127.15	120.44
1	kl	183	ASN	C-N-CA	5.16	127.15	120.44
1	kw	159	GLU	CA-C-N	5.16	125.08	119.76
1	kw	159	GLU	C-N-CA	5.16	125.08	119.76
1	kA	141	ILE	O-C-N	5.16	126.97	121.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	24	165	VAL	N-CA-C	5.16	115.89	110.62
1	kT	130	TYR	N-CA-C	5.16	116.99	111.36
1	kZ	118	MET	O-C-N	-5.16	114.89	122.43
1	26	224	PRO	N-CA-C	5.16	123.10	112.47
1	l8	50	GLN	N-CA-C	5.16	116.91	111.28
1	lH	193	ASN	CA-C-N	5.16	128.54	120.75
1	lH	193	ASN	C-N-CA	5.16	128.54	120.75
1	2h	69	LEU	CA-C-N	5.16	127.15	120.44
1	2h	69	LEU	C-N-CA	5.16	127.15	120.44
1	2i	84	HIS	O-C-N	-5.16	115.36	120.83
1	2u	192	GLN	CG-CD-NE2	5.16	124.14	116.40
1	2O	150	ILE	CA-CB-CG1	5.16	119.17	110.40
1	2U	159	GLU	N-CA-C	5.16	117.06	109.42
1	35	87	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	3r	73	ILE	CA-CB-CG2	-5.16	101.72	110.50
1	3V	223	GLY	CA-C-N	5.16	125.10	119.78
1	3V	223	GLY	C-N-CA	5.16	125.10	119.78
1	3X	95	GLN	CA-C-O	5.16	127.29	121.51
1	43	122	PRO	CA-C-N	5.16	125.16	119.89
1	43	122	PRO	C-N-CA	5.16	125.16	119.89
1	4d	20	LEU	CA-C-O	-5.16	115.40	120.82
1	4e	2	ILE	CB-CG1-CD1	-5.16	102.96	113.80
1	4r	66	MET	N-CA-C	5.16	116.91	111.28
1	4s	42	ALA	CA-C-O	5.16	126.02	120.55
1	4s	57	ASN	CA-CB-CG	-5.16	107.44	112.60
1	4t	26	VAL	CA-CB-CG1	-5.16	101.62	110.40
1	4E	97	ARG	CA-C-O	5.16	127.81	121.56
1	56	89	GLY	CA-C-N	5.16	125.45	119.93
1	56	89	GLY	C-N-CA	5.16	125.45	119.93
1	57	176	GLN	O-C-N	-5.16	115.25	122.37
1	5l	38	PRO	CA-C-N	5.16	127.51	120.54
1	5l	38	PRO	C-N-CA	5.16	127.51	120.54
1	5n	60	GLY	O-C-N	-5.16	115.99	122.70
1	5v	62	HIS	CA-C-O	5.16	127.89	120.51
1	5B	30	LYS	CA-C-N	5.16	128.54	120.75
1	5B	30	LYS	C-N-CA	5.16	128.54	120.75
1	5X	92	GLU	O-C-N	-5.16	117.52	121.55
1	6i	6	LEU	CA-C-N	5.16	129.46	120.68
1	6i	6	LEU	C-N-CA	5.16	129.46	120.68
1	6A	105	ALA	N-CA-C	-5.16	106.83	113.02
1	70	10	MET	N-CA-C	5.16	117.78	110.50
1	70	186	THR	O-C-N	-5.16	116.75	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	73	133	TRP	NE1-CE2-CZ2	-5.16	122.36	130.10
1	7P	81	ASP	N-CA-C	5.16	116.99	111.36
1	7R	68	MET	N-CA-C	5.16	116.72	111.14
1	7S	126	VAL	CB-CA-C	-5.16	104.51	112.05
1	86	224	PRO	CA-C-N	5.16	131.53	121.41
1	86	224	PRO	C-N-CA	5.16	131.53	121.41
1	8f	136	LEU	CA-C-O	-5.16	115.40	120.82
1	8t	147	PRO	CA-C-O	-5.16	111.21	120.60
1	8L	23	TRP	CB-CA-C	5.16	118.98	110.88
1	8Q	66	MET	CA-C-N	5.16	127.20	120.28
1	8Q	66	MET	C-N-CA	5.16	127.20	120.28
1	8T	213	GLU	CA-C-N	5.16	127.20	120.28
1	8T	213	GLU	C-N-CA	5.16	127.20	120.28
1	8V	12	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	90	164	TYR	CB-CA-C	5.16	119.36	110.79
1	94	225	GLY	CA-C-O	5.16	129.55	120.57
1	9H	105	ALA	CA-C-O	5.16	126.04	119.95
1	9O	72	THR	CA-CB-OG1	5.16	117.34	109.60
1	9X	13	GLN	O-C-N	-5.16	116.52	123.23
1	Z	223	GLY	CA-C-N	5.16	126.29	119.84
1	Z	223	GLY	C-N-CA	5.16	126.29	119.84
1	a0	102	SER	N-CA-C	5.16	116.91	111.28
1	ah	45	GLU	CA-C-N	5.16	129.75	120.77
1	ah	45	GLU	C-N-CA	5.16	129.75	120.77
1	ah	177	ALA	CA-C-N	5.16	128.10	120.82
1	ah	177	ALA	C-N-CA	5.16	128.10	120.82
1	aB	191	VAL	CA-C-N	5.16	127.62	120.29
1	aB	191	VAL	C-N-CA	5.16	127.62	120.29
1	aX	83	LEU	N-CA-C	5.16	116.99	111.36
1	ba	54	THR	O-C-N	-5.16	116.65	122.12
1	be	56	LEU	CB-CA-C	5.16	120.58	110.67
1	bp	190	LEU	CA-C-N	5.16	128.63	120.47
1	bp	190	LEU	C-N-CA	5.16	128.63	120.47
1	bv	163	ASP	N-CA-C	-5.16	105.73	112.23
1	bJ	209	ALA	CA-C-O	5.16	127.41	121.47
1	c9	205	LEU	CA-C-N	5.16	129.97	121.87
1	c9	205	LEU	C-N-CA	5.16	129.97	121.87
1	ca	31	ALA	N-CA-C	5.16	116.80	108.08
1	cr	21	ASN	O-C-N	-5.16	116.27	122.15
1	cA	133	TRP	CA-C-O	5.16	125.93	120.10
1	cJ	211	LEU	N-CA-CB	5.16	118.28	110.28
1	cK	103	ASP	CA-C-N	5.16	127.53	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cK	103	ASP	C-N-CA	5.16	127.53	120.46
1	cM	131	LYS	CA-C-O	-5.16	114.95	120.42
1	cT	118	MET	O-C-N	-5.16	116.65	122.12
1	d2	35	GLU	O-C-N	-5.16	115.56	122.43
1	dc	82	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	dn	33	SER	CA-C-N	5.16	124.83	119.56
1	dn	33	SER	C-N-CA	5.16	124.83	119.56
1	dn	209	ALA	N-CA-C	5.16	117.83	110.24
1	dp	107	THR	CA-CB-CG2	-5.16	101.72	110.50
1	1l	52	LEU	CA-C-N	5.16	127.15	120.44
1	1l	52	LEU	C-N-CA	5.16	127.15	120.44
1	dz	180	GLU	CA-C-O	5.16	126.02	120.70
1	dI	207	PRO	N-CA-C	-5.16	107.90	114.35
1	dX	184	TRP	CA-C-N	5.16	127.51	120.54
1	dX	184	TRP	C-N-CA	5.16	127.51	120.54
1	e7	23	TRP	CB-CG-CD1	-5.16	119.16	126.90
1	ec	20	LEU	N-CA-C	5.16	116.99	111.36
1	ef	163	ASP	CB-CA-C	5.16	118.98	110.88
1	eg	114	GLN	N-CA-C	5.16	116.91	111.28
1	em	114	GLN	CA-C-N	5.16	127.53	120.46
1	em	114	GLN	C-N-CA	5.16	127.53	120.46
1	eB	133	TRP	CB-CG-CD2	-5.16	119.57	126.80
1	eK	23	TRP	O-C-N	-5.16	116.18	122.22
1	fp	121	ASN	CA-C-O	-5.16	114.42	119.69
1	fx	173	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	fS	89	GLY	N-CA-C	5.16	122.87	112.34
1	fY	16	SER	CA-C-N	5.16	124.85	119.64
1	fY	16	SER	C-N-CA	5.16	124.85	119.64
1	g2	185	MET	CA-C-N	5.16	128.16	120.31
1	g2	185	MET	C-N-CA	5.16	128.16	120.31
1	x	170	LYS	CA-C-N	5.16	127.15	120.44
1	x	170	LYS	C-N-CA	5.16	127.15	120.44
1	3	93	PRO	N-CD-CG	5.16	110.94	103.20
1	R	86	VAL	CA-C-O	5.16	126.22	120.59
1	V	74	ASN	N-CA-C	5.16	116.99	111.36
1	8	48	THR	CA-CB-OG1	5.16	117.34	109.60
1	8	69	LEU	CA-C-N	5.16	127.15	120.44
1	8	69	LEU	C-N-CA	5.16	127.15	120.44
1	g9	80	TRP	O-C-N	-5.16	116.65	122.12
1	ga	9	GLN	OE1-CD-NE2	5.16	127.76	122.60
1	gd	105	ALA	CA-C-O	5.16	125.53	119.28
1	gi	32	PHE	CB-CG-CD2	5.16	129.47	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gk	183	ASN	CA-CB-CG	-5.16	107.44	112.60
1	gl	50	GLN	N-CA-C	5.16	116.59	111.07
1	gp	56	LEU	O-C-N	-5.16	115.92	122.27
1	gr	131	LYS	O-C-N	-5.16	116.27	122.15
1	gA	199	LYS	O-C-N	-5.16	116.65	122.12
1	1E	62	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	gF	37	ILE	O-C-N	5.16	123.73	120.07
1	gF	143	ARG	N-CA-CB	5.16	117.49	110.01
1	gF	186	THR	O-C-N	-5.16	116.75	122.07
1	gS	79	GLU	CA-C-N	5.16	127.15	120.44
1	gS	79	GLU	C-N-CA	5.16	127.15	120.44
1	1G	82	ARG	CA-C-N	5.16	129.40	120.58
1	1G	82	ARG	C-N-CA	5.16	129.40	120.58
1	gW	18	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	h0	229	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	h3	200	THR	CA-C-N	5.16	127.75	120.42
1	h3	200	THR	C-N-CA	5.16	127.75	120.42
1	h4	172	LEU	CB-CA-C	5.16	119.36	110.79
1	hj	199	LYS	N-CA-CB	5.16	117.63	109.94
1	ho	183	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	hr	60	GLY	CA-C-N	-5.16	117.84	122.43
1	hr	60	GLY	C-N-CA	-5.16	117.84	122.43
1	1K	21	ASN	CA-CB-CG	5.16	117.76	112.60
1	hC	164	TYR	CA-C-N	5.16	127.53	120.46
1	hC	164	TYR	C-N-CA	5.16	127.53	120.46
1	hE	114	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	hG	139	ASN	CB-CG-ND2	-5.16	108.66	116.40
1	hH	42	ALA	O-C-N	5.16	127.59	122.12
1	hJ	70	LYS	CA-C-N	5.16	127.20	120.28
1	hJ	70	LYS	C-N-CA	5.16	127.20	120.28
1	hW	140	LYS	CA-C-O	5.16	126.42	120.90
1	i4	160	PRO	N-CA-C	5.16	119.67	111.26
1	if	5	ASN	CA-CB-CG	5.16	117.76	112.60
1	im	67	GLN	CA-C-N	5.16	128.15	120.31
1	im	67	GLN	C-N-CA	5.16	128.15	120.31
1	iu	132	ARG	O-C-N	-5.16	116.27	122.15
1	iz	84	HIS	O-C-N	-5.16	114.26	121.12
1	iD	177	ALA	CA-C-O	5.16	127.89	120.51
1	iJ	84	HIS	CB-CG-CD2	-5.16	124.49	131.20
1	iQ	194	ALA	N-CA-C	5.16	117.78	110.50
1	iR	127	GLY	O-C-N	5.16	127.14	122.19
1	iR	169	TYR	N-CA-C	5.16	116.90	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iU	10	MET	N-CA-CB	5.16	117.62	110.04
1	iW	66	MET	CG-SD-CE	-5.16	89.55	100.90
1	iW	90	PRO	N-CA-C	5.16	123.10	112.47
1	iX	114	GLN	CA-C-O	5.16	126.24	120.82
1	j8	17	PRO	CB-CA-C	5.16	119.22	111.68
1	1U	87	HIS	CB-CG-CD2	-5.16	124.49	131.20
1	jd	84	HIS	O-C-N	-5.16	115.64	120.85
1	jj	173	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	jk	82	ARG	CA-C-N	5.16	127.51	120.54
1	jk	82	ARG	C-N-CA	5.16	127.51	120.54
1	jv	176	GLN	CA-C-O	5.16	125.32	119.18
1	jD	1	PRO	CA-C-N	5.16	129.43	122.93
1	jD	1	PRO	C-N-CA	5.16	129.43	122.93
1	1X	38	PRO	CA-N-CD	-5.16	104.78	112.00
1	jG	119	THR	O-C-N	-5.16	116.11	122.25
1	jK	143	ARG	O-C-N	-5.16	116.65	122.12
1	jV	134	ILE	CB-CA-C	-5.16	105.17	112.14
1	k0	226	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	k8	120	HIS	O-C-N	-5.16	116.91	122.79
1	kb	146	SER	CA-C-N	5.16	126.29	119.84
1	kb	146	SER	C-N-CA	5.16	126.29	119.84
1	kn	168	PHE	CB-CG-CD1	-5.16	111.93	120.70
1	kn	180	GLU	CB-CA-C	-5.16	102.22	110.79
1	kt	156	GLY	CA-C-N	5.16	126.29	119.84
1	kt	156	GLY	C-N-CA	5.16	126.29	119.84
1	kt	181	VAL	O-C-N	5.16	127.14	121.83
1	kI	12	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	kJ	198	CYS	CA-C-N	5.16	127.20	120.28
1	kJ	198	CYS	C-N-CA	5.16	127.20	120.28
1	24	132	ARG	CB-CA-C	-5.16	102.22	110.79
1	24	190	LEU	O-C-N	-5.16	116.72	122.09
1	24	204	ALA	CA-C-N	5.16	127.15	120.44
1	24	204	ALA	C-N-CA	5.16	127.15	120.44
1	kO	73	ILE	CA-CB-CG1	5.16	119.17	110.40
1	kY	190	LEU	N-CA-CB	-5.16	102.53	110.12
1	l7	144	MET	N-CA-C	5.16	118.73	112.23
1	lb	151	LEU	CB-CA-C	-5.16	101.08	110.63
1	lh	17	PRO	N-CA-C	5.16	123.10	112.47
1	ln	4	GLN	N-CA-C	5.16	118.16	110.52
1	lq	210	THR	N-CA-C	-5.16	102.88	110.52
1	lr	209	ALA	CA-C-O	5.16	127.02	121.55
1	lr	221	VAL	CB-CA-C	-5.16	104.08	111.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lB	118	MET	CA-C-N	5.16	130.59	122.49
1	lB	118	MET	C-N-CA	5.16	130.59	122.49
1	lB	210	THR	O-C-N	-5.16	116.44	123.10
1	lC	125	PRO	N-CA-CB	-5.16	99.35	102.81
1	lJ	96	MET	N-CA-C	-5.16	103.11	110.59
1	2a	18	ARG	N-CA-CB	5.16	117.80	110.16
1	lP	197	ASP	N-CA-CB	-5.16	102.55	110.44
1	2h	48	THR	CA-C-O	-5.16	115.19	120.87
1	2m	170	LYS	CA-C-N	5.16	127.46	120.44
1	2m	170	LYS	C-N-CA	5.16	127.46	120.44
1	2q	69	LEU	N-CA-C	5.16	116.59	111.07
1	2q	140	LYS	CA-C-O	5.16	126.02	120.55
1	2v	99	PRO	N-CA-C	5.16	118.59	110.80
1	2w	51	ASP	N-CA-C	5.16	116.59	111.07
1	2y	193	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	2z	177	ALA	CA-C-N	5.16	128.41	120.82
1	2z	177	ALA	C-N-CA	5.16	128.41	120.82
1	2C	77	ALA	CA-C-O	-5.16	114.95	120.42
1	2I	179	GLN	O-C-N	-5.16	116.65	122.12
1	2O	52	LEU	CA-C-O	5.16	126.02	120.55
1	2R	165	VAL	N-CA-CB	5.16	119.47	110.65
1	2T	13	GLN	CA-C-O	5.16	126.89	120.54
1	2Z	36	VAL	CA-CB-CG2	-5.16	101.63	110.40
1	30	214	MET	CG-SD-CE	-5.16	89.55	100.90
1	32	44	SER	CB-CA-C	-5.16	103.06	111.06
1	39	132	ARG	NE-CZ-NH2	5.16	123.84	119.20
1	39	215	MET	CA-C-O	5.16	125.72	119.11
1	3g	197	ASP	O-C-N	-5.16	116.75	122.07
1	3s	131	LYS	CA-C-N	5.16	127.15	120.44
1	3s	131	LYS	C-N-CA	5.16	127.15	120.44
1	3t	37	ILE	N-CA-CB	5.16	118.43	111.21
1	3t	172	LEU	N-CA-CB	-5.16	102.28	110.28
1	3D	72	THR	N-CA-C	5.16	116.91	111.28
1	3K	132	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	3L	134	ILE	O-C-N	-5.16	116.85	121.91
1	3P	126	VAL	N-CA-C	5.16	116.50	110.62
1	3T	162	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	3V	113	GLU	N-CA-C	5.16	116.90	111.28
1	3X	33	SER	N-CA-C	5.16	118.34	110.50
1	3X	76	GLU	CA-C-N	5.16	127.46	120.44
1	3X	76	GLU	C-N-CA	5.16	127.46	120.44
1	3X	185	MET	CG-SD-CE	-5.16	89.55	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	49	91	ILE	CA-C-N	5.16	130.26	122.42
1	49	91	ILE	C-N-CA	5.16	130.26	122.42
1	49	195	ASN	N-CA-C	5.16	121.21	109.81
1	4a	95	GLN	CB-CG-CD	5.16	121.37	112.60
1	4a	193	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	4j	146	SER	CA-C-O	-5.16	114.68	120.25
1	4u	8	GLY	O-C-N	-5.16	116.16	122.30
1	4z	149	SER	N-CA-C	5.16	118.12	110.48
1	4B	218	CYS	N-CA-CB	5.16	119.21	110.49
1	4G	102	SER	CA-C-N	5.16	127.62	120.29
1	4G	102	SER	C-N-CA	5.16	127.62	120.29
1	4J	154	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	4P	155	GLN	CB-CA-C	5.16	119.14	110.88
1	4Q	213	GLU	N-CA-C	5.16	116.91	111.28
1	51	106	GLY	N-CA-C	-5.16	108.55	114.69
1	56	152	ASP	CA-C-N	5.16	128.08	120.91
1	56	152	ASP	C-N-CA	5.16	128.08	120.91
1	57	16	SER	CA-C-N	5.16	124.66	119.19
1	57	16	SER	C-N-CA	5.16	124.66	119.19
1	5f	179	GLN	N-CA-C	5.16	116.91	111.28
1	5w	84	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	5x	212	GLU	O-C-N	-5.16	115.92	122.27
1	5x	227	LYS	CA-C-N	5.16	128.10	120.82
1	5x	227	LYS	C-N-CA	5.16	128.10	120.82
1	5B	170	LYS	N-CA-CB	5.16	117.80	110.06
1	5D	189	LEU	CA-C-N	5.16	127.15	120.44
1	5D	189	LEU	C-N-CA	5.16	127.15	120.44
1	5E	62	HIS	O-C-N	-5.16	116.39	122.58
1	5F	148	THR	CA-CB-OG1	5.16	117.34	109.60
1	5Q	195	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	5R	190	LEU	CA-C-N	5.16	127.75	120.42
1	5R	190	LEU	C-N-CA	5.16	127.75	120.42
1	5U	81	ASP	N-CA-CB	5.16	117.71	110.12
1	6a	173	ARG	N-CA-C	5.16	116.91	111.28
1	6j	129	ILE	CB-CA-C	-5.16	105.17	112.14
1	6p	68	MET	CA-C-N	5.16	127.19	120.28
1	6p	68	MET	C-N-CA	5.16	127.19	120.28
1	6s	22	ALA	O-C-N	-5.16	116.65	122.12
1	6v	132	ARG	CD-NE-CZ	-5.16	117.18	124.40
1	6y	205	LEU	CA-C-N	5.16	129.97	121.87
1	6y	205	LEU	C-N-CA	5.16	129.97	121.87
1	6S	177	ALA	N-CA-CB	5.16	117.62	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6W	193	ASN	N-CA-C	5.16	119.67	113.17
1	77	23	TRP	N-CA-C	5.16	116.59	111.07
1	7m	72	THR	N-CA-C	5.16	116.91	111.28
1	7s	126	VAL	CA-C-O	5.16	126.42	121.05
1	7D	210	THR	CA-CB-OG1	5.16	117.34	109.60
1	7H	143	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	7L	59	VAL	O-C-N	-5.16	117.07	122.95
1	7M	169	TYR	N-CA-C	-5.16	106.94	113.18
1	7O	189	LEU	CA-C-N	5.16	127.19	120.28
1	7O	189	LEU	C-N-CA	5.16	127.19	120.28
1	82	119	THR	N-CA-CB	5.16	118.31	110.42
1	87	113	GLU	CA-C-O	-5.16	114.95	120.42
1	8f	52	LEU	N-CA-C	5.16	116.59	111.07
1	8f	214	MET	N-CA-C	5.16	116.98	111.36
1	8i	141	ILE	CA-C-N	5.16	127.53	120.46
1	8i	141	ILE	C-N-CA	5.16	127.53	120.46
1	8p	133	TRP	CD2-CE2-CZ2	-5.16	117.24	122.40
1	8p	171	THR	CA-C-O	5.16	125.89	120.42
1	8s	171	THR	CB-CA-C	-5.16	100.76	110.67
1	8B	108	THR	CA-CB-OG1	5.16	117.34	109.60
1	8G	179	GLN	CA-C-N	5.16	127.15	120.44
1	8G	179	GLN	C-N-CA	5.16	127.15	120.44
1	91	167	ARG	CA-C-O	-5.16	114.04	119.97
1	91	180	GLU	CA-C-N	5.16	127.53	120.46
1	91	180	GLU	C-N-CA	5.16	127.53	120.46
1	9i	20	LEU	O-C-N	-5.16	116.75	122.07
1	9k	216	THR	N-CA-CB	5.16	117.71	110.12
1	9p	100	ARG	CA-C-N	5.16	125.82	119.99
1	9p	100	ARG	C-N-CA	5.16	125.82	119.99
1	9r	178	SER	CA-C-N	5.16	127.20	120.28
1	9r	178	SER	C-N-CA	5.16	127.20	120.28
1	9u	9	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	9E	122	PRO	CA-C-N	5.16	124.92	119.76
1	9E	122	PRO	C-N-CA	5.16	124.92	119.76
1	9F	160	PRO	N-CA-C	5.16	123.10	112.47
1	9I	161	PHE	CA-CB-CG	-5.16	108.64	113.80
1	9U	58	THR	N-CA-CB	5.16	118.96	110.39
1	a1	190	LEU	CA-C-N	5.16	127.53	120.46
1	a1	190	LEU	C-N-CA	5.16	127.53	120.46
1	a3	220	GLY	CA-C-O	5.16	126.15	119.44
1	a9	70	LYS	O-C-N	-5.16	116.72	122.09
1	10	45	GLU	CB-CA-C	5.16	117.95	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ab	52	LEU	N-CA-C	5.16	116.90	111.28
1	af	45	GLU	CA-C-O	5.16	126.58	120.96
1	ah	149	SER	O-C-N	-5.16	117.28	123.06
1	au	113	GLU	CA-C-N	5.16	127.15	120.44
1	au	113	GLU	C-N-CA	5.16	127.15	120.44
1	aE	168	PHE	CA-C-O	-5.16	115.40	120.82
1	aU	5	ASN	N-CA-CB	5.16	119.21	110.49
1	aU	11	VAL	O-C-N	-5.16	117.30	123.03
1	aU	29	GLU	CA-CB-CG	-5.16	103.78	114.10
1	aW	109	SER	N-CA-CB	5.16	119.35	110.68
1	b5	23	TRP	N-CA-C	5.16	116.59	111.07
1	b5	71	GLU	N-CA-CB	5.16	118.95	110.39
1	b9	132	ARG	O-C-N	-5.16	116.65	122.12
1	bm	154	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	bp	118	MET	CA-C-N	5.16	127.71	120.28
1	bp	118	MET	C-N-CA	5.16	127.71	120.28
1	bs	104	ILE	CA-C-N	5.16	131.22	122.65
1	bs	104	ILE	C-N-CA	5.16	131.22	122.65
1	bw	211	LEU	CA-C-O	-5.16	114.95	120.42
1	bH	139	ASN	CB-CG-OD1	5.16	131.12	120.80
1	bK	180	GLU	CA-C-N	5.16	127.75	120.42
1	bK	180	GLU	C-N-CA	5.16	127.75	120.42
1	bM	102	SER	CA-C-N	5.16	127.62	120.29
1	bM	102	SER	C-N-CA	5.16	127.62	120.29
1	bT	85	PRO	CA-C-N	5.16	127.53	120.46
1	bT	85	PRO	C-N-CA	5.16	127.53	120.46
1	1b	217	ALA	O-C-N	-5.16	115.73	122.59
1	cl	51	ASP	CA-C-N	5.16	127.20	120.28
1	cl	51	ASP	C-N-CA	5.16	127.20	120.28
1	cn	140	LYS	O-C-N	-5.16	116.27	122.15
1	cu	114	GLN	N-CA-C	5.16	117.57	111.33
1	cI	45	GLU	O-C-N	-5.16	116.15	123.01
1	cJ	92	GLU	CA-C-N	5.16	126.29	119.84
1	cJ	92	GLU	C-N-CA	5.16	126.29	119.84
1	d2	154	ARG	N-CA-C	-5.16	99.92	108.75
1	d8	162	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	1j	11	VAL	CA-C-N	5.16	129.28	122.42
1	1j	11	VAL	C-N-CA	5.16	129.28	122.42
1	dn	191	VAL	CA-C-O	5.16	126.25	119.85
1	ds	19	THR	O-C-N	-5.16	116.65	122.12
1	ds	164	TYR	N-CA-C	5.16	116.90	111.28
1	dE	207	PRO	N-CA-C	5.16	119.30	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	161	PHE	N-CA-CB	-5.16	102.53	110.12
1	dX	84	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	1o	137	GLY	CA-C-O	5.16	126.07	120.75
1	1p	51	ASP	O-C-N	-5.16	116.27	122.15
1	ec	100	ARG	CG-CD-NE	-5.16	100.65	112.00
1	ef	182	LYS	CA-C-N	5.16	127.62	120.29
1	ef	182	LYS	C-N-CA	5.16	127.62	120.29
1	eg	84	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	ek	188	THR	CA-CB-CG2	5.16	119.27	110.50
1	el	74	ASN	N-CA-C	5.16	117.58	111.33
1	el	133	TRP	CA-C-N	5.16	127.75	120.42
1	el	133	TRP	C-N-CA	5.16	127.75	120.42
1	eB	221	VAL	O-C-N	-5.16	116.85	121.91
1	1s	160	PRO	CA-C-N	5.16	128.15	120.31
1	1s	160	PRO	C-N-CA	5.16	128.15	120.31
1	eM	20	LEU	N-CA-C	5.16	116.90	111.28
1	eN	120	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	eX	16	SER	CB-CA-C	-5.16	101.67	109.26
1	f2	146	SER	CA-C-O	-5.16	116.51	120.48
1	f6	183	ASN	CA-C-N	5.16	127.20	120.28
1	f6	183	ASN	C-N-CA	5.16	127.20	120.28
1	f7	133	TRP	CB-CG-CD1	5.16	134.64	126.90
1	fj	54	THR	N-CA-CB	5.16	117.63	109.94
1	1w	16	SER	O-C-N	-5.16	115.98	121.30
1	1w	98	GLU	CB-CA-C	5.16	118.33	109.82
1	fD	19	THR	O-C-N	-5.16	116.75	122.07
1	1y	173	ARG	CA-C-N	5.16	127.19	120.28
1	1y	173	ARG	C-N-CA	5.16	127.19	120.28
1	1z	67	GLN	O-C-N	-5.16	116.52	122.09
1	fP	110	THR	CA-CB-CG2	5.16	119.27	110.50
1	fS	18	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	fV	229	ARG	CG-CD-NE	-5.16	100.64	112.00
1	g0	23	TRP	N-CA-C	-5.16	105.57	111.14
1	g6	184	TRP	N-CA-C	5.16	116.59	111.07
1	g6	195	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	j	138	LEU	CA-C-N	5.16	128.15	120.31
1	j	138	LEU	C-N-CA	5.16	128.15	120.31
1	m	124	ILE	CB-CA-C	-5.16	105.25	111.18
1	m	129	ILE	CA-C-O	-5.16	115.38	120.85
1	p	154	ARG	CA-C-O	5.16	126.77	120.99
1	C	150	ILE	CA-C-N	5.16	129.34	120.72
1	C	150	ILE	C-N-CA	5.16	129.34	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	94	GLY	CA-C-O	5.16	125.86	119.25
1	T	91	ILE	CA-CB-CG2	-5.16	101.73	110.50
1	W	64	ALA	N-CA-C	5.16	116.98	111.36
1	7	129	ILE	CA-C-O	5.16	126.78	121.41
1	gt	195	ASN	CB-CG-OD1	5.16	131.12	120.80
1	gw	155	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	gM	168	PHE	CA-C-O	-5.16	115.39	121.07
1	gQ	133	TRP	N-CA-CB	5.16	117.49	110.01
1	gW	184	TRP	CB-CA-C	5.16	119.62	110.85
1	h0	104	ILE	CA-C-N	5.16	127.71	120.28
1	h0	104	ILE	C-N-CA	5.16	127.71	120.28
1	h2	194	ALA	CA-C-N	5.16	129.28	121.03
1	h2	194	ALA	C-N-CA	5.16	129.28	121.03
1	h5	155	GLN	O-C-N	-5.16	117.34	123.22
1	ha	208	ALA	CA-C-N	5.16	128.54	120.75
1	ha	208	ALA	C-N-CA	5.16	128.54	120.75
1	hf	63	GLN	O-C-N	-5.16	115.92	122.27
1	hj	193	ASN	O-C-N	5.16	129.16	123.33
1	hk	190	LEU	CA-C-N	5.16	127.06	120.56
1	hk	190	LEU	C-N-CA	5.16	127.06	120.56
1	hw	65	ALA	N-CA-C	-5.16	105.74	111.36
1	hG	69	LEU	O-C-N	-5.16	116.65	122.12
1	hM	155	GLN	N-CA-C	5.16	117.70	109.96
1	hV	35	GLU	CA-C-N	5.16	127.06	120.56
1	hV	35	GLU	C-N-CA	5.16	127.06	120.56
1	hX	81	ASP	CA-C-N	5.16	127.19	120.28
1	hX	81	ASP	C-N-CA	5.16	127.19	120.28
1	1N	14	ALA	O-C-N	-5.16	116.30	122.65
1	io	99	PRO	O-C-N	-5.16	116.56	123.06
1	io	162	ARG	CA-C-O	5.16	127.06	121.02
1	iw	90	PRO	CA-C-N	5.16	127.52	120.35
1	iw	90	PRO	C-N-CA	5.16	127.52	120.35
1	ix	146	SER	O-C-N	-5.16	115.99	121.30
1	iC	124	ILE	CA-C-O	5.16	126.86	119.95
1	iF	201	ILE	CA-C-N	5.16	127.19	120.28
1	iF	201	ILE	C-N-CA	5.16	127.19	120.28
1	iJ	173	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	iK	2	ILE	CA-C-O	5.16	123.86	118.96
1	iM	174	ALA	N-CA-C	5.16	117.80	111.82
1	iP	1	PRO	CA-C-N	-5.16	116.65	122.48
1	iP	1	PRO	C-N-CA	-5.16	116.65	122.48
1	iQ	162	ARG	NE-CZ-NH2	-5.16	114.56	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iQ	169	TYR	CA-C-N	5.16	127.61	120.29
1	iQ	169	TYR	C-N-CA	5.16	127.61	120.29
1	1S	22	ALA	CA-C-N	5.16	127.50	120.54
1	1S	22	ALA	C-N-CA	5.16	127.50	120.54
1	iW	203	LYS	CA-C-N	5.16	127.61	120.29
1	iW	203	LYS	C-N-CA	5.16	127.61	120.29
1	j0	36	VAL	CG1-CB-CG2	5.16	122.15	110.80
1	j2	37	ILE	N-CA-CB	-5.16	103.99	111.21
1	j8	113	GLU	N-CA-C	5.16	116.71	111.14
1	jh	143	ARG	N-CA-C	5.16	116.98	111.36
1	jv	95	GLN	N-CA-C	-5.16	100.29	109.06
1	jC	209	ALA	N-CA-C	5.16	117.71	110.23
1	jE	196	PRO	N-CA-C	5.16	123.10	112.47
1	jM	137	GLY	N-CA-C	5.16	118.92	112.73
1	1Y	195	ASN	N-CA-C	-5.16	103.09	109.64
1	jT	181	VAL	CA-C-O	5.16	126.64	121.17
1	k4	173	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	k7	91	ILE	CA-CB-CG2	-5.16	101.73	110.50
1	k9	120	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	kd	193	ASN	CB-CA-C	-5.16	102.00	110.72
1	kf	207	PRO	N-CA-C	5.16	119.30	111.15
1	kf	228	ALA	N-CA-C	5.16	117.71	110.23
1	kI	100	ARG	CG-CD-NE	-5.16	100.65	112.00
1	kJ	132	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	kP	208	ALA	N-CA-C	-5.16	106.83	113.02
1	kW	55	MET	O-C-N	-5.16	116.52	122.09
1	l1	48	THR	N-CA-CB	5.16	117.00	110.04
1	l7	7	GLN	N-CA-C	-5.16	105.70	112.41
1	l7	21	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	26	39	MET	CA-CB-CG	5.16	124.42	114.10
1	lb	80	TRP	N-CA-CB	-5.16	102.28	110.22
1	lw	118	MET	CG-SD-CE	-5.16	89.55	100.90
1	lx	190	LEU	CA-C-O	5.16	125.89	120.42
1	lK	188	THR	N-CA-CB	5.16	119.21	110.49
1	lM	89	GLY	CA-C-N	5.16	127.13	120.89
1	lM	89	GLY	C-N-CA	5.16	127.13	120.89
1	2d	188	THR	CA-C-N	5.16	127.71	120.28
1	2d	188	THR	C-N-CA	5.16	127.71	120.28
1	2n	140	LYS	O-C-N	-5.16	115.93	122.27
1	2w	82	ARG	CA-CB-CG	5.16	124.42	114.10
1	2w	144	MET	N-CA-C	5.16	116.90	111.28
1	2C	216	THR	N-CA-C	5.16	116.98	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2E	135	ILE	CB-CA-C	-5.16	103.75	112.16
1	2L	67	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	2R	26	VAL	CA-C-O	-5.16	115.59	120.95
1	2T	149	SER	CA-C-O	5.16	125.93	120.36
1	2W	130	TYR	N-CA-C	-5.16	105.73	112.23
1	33	162	ARG	O-C-N	-5.16	116.67	122.03
1	38	75	GLU	O-C-N	-5.16	115.42	122.33
1	3b	59	VAL	CG1-CB-CG2	5.16	122.15	110.80
1	3d	53	ASN	O-C-N	-5.16	116.27	122.15
1	3m	121	ASN	CB-CA-C	5.16	117.35	110.13
1	3v	117	TRP	CA-C-O	5.16	125.71	119.31
1	3D	18	ARG	CD-NE-CZ	5.16	131.62	124.40
1	3H	213	GLU	O-C-N	-5.16	115.53	122.23
1	3R	37	ILE	CA-C-N	5.16	124.47	118.85
1	3R	37	ILE	C-N-CA	5.16	124.47	118.85
1	3T	229	ARG	CB-CG-CD	5.16	123.17	111.30
1	3U	42	ALA	N-CA-C	5.16	116.59	111.07
1	40	82	ARG	CA-C-N	5.16	127.14	120.44
1	40	82	ARG	C-N-CA	5.16	127.14	120.44
1	43	202	LEU	O-C-N	-5.16	116.65	122.12
1	49	21	ASN	CA-C-N	5.16	127.50	120.54
1	49	21	ASN	C-N-CA	5.16	127.50	120.54
1	4b	53	ASN	OD1-CG-ND2	5.16	127.76	122.60
1	4b	191	VAL	CA-C-N	5.16	127.45	120.38
1	4b	191	VAL	C-N-CA	5.16	127.45	120.38
1	4d	183	ASN	CA-C-O	-5.16	115.08	120.55
1	4k	28	GLU	N-CA-C	5.16	117.30	111.11
1	4y	40	PHE	N-CA-C	5.16	116.98	111.36
1	4F	224	PRO	N-CA-C	5.16	123.10	112.47
1	4L	116	GLY	CA-C-N	5.16	127.50	120.54
1	4L	116	GLY	C-N-CA	5.16	127.50	120.54
1	4S	177	ALA	N-CA-C	5.16	121.79	110.80
1	4X	158	LYS	CG-CD-CE	5.16	123.16	111.30
1	54	220	GLY	CA-C-O	5.16	126.13	119.68
1	5e	132	ARG	CA-C-O	5.16	126.24	120.82
1	5p	52	LEU	O-C-N	-5.16	116.65	122.12
1	5D	193	ASN	CA-C-O	5.16	125.68	119.59
1	5H	229	ARG	CA-C-N	5.16	127.49	120.63
1	5H	229	ARG	C-N-CA	5.16	127.49	120.63
1	5M	211	LEU	N-CA-C	5.16	117.30	111.11
1	5Q	121	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	5U	60	GLY	CA-C-N	5.16	131.52	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5U	60	GLY	C-N-CA	5.16	131.52	121.41
1	5Z	132	ARG	N-CA-C	5.16	117.64	111.71
1	6e	102	SER	CA-C-N	5.16	129.32	120.71
1	6e	102	SER	C-N-CA	5.16	129.32	120.71
1	6n	174	ALA	N-CA-C	5.16	116.59	111.07
1	6p	214	MET	O-C-N	-5.16	115.92	122.27
1	6s	121	ASN	CA-CB-CG	-5.16	107.44	112.60
1	6v	205	LEU	N-CA-C	5.16	116.98	111.36
1	6w	79	GLU	O-C-N	5.16	127.59	122.12
1	6x	219	GLN	N-CA-C	5.16	117.57	111.33
1	6y	33	SER	O-C-N	-5.16	115.39	121.32
1	6B	88	ALA	N-CA-C	5.16	116.67	108.67
1	6F	145	TYR	O-C-N	-5.16	115.89	122.34
1	6G	54	THR	CA-CB-OG1	5.16	117.34	109.60
1	6M	15	ILE	CA-C-N	5.16	127.67	120.65
1	6M	15	ILE	C-N-CA	5.16	127.67	120.65
1	6S	197	ASP	CA-C-O	-5.16	114.04	119.97
1	7g	168	PHE	CA-CB-CG	-5.16	108.64	113.80
1	7q	5	ASN	CB-CG-OD1	5.16	131.12	120.80
1	7w	84	HIS	CB-CG-CD2	-5.16	124.49	131.20
1	83	74	ASN	CA-C-O	-5.16	115.08	120.55
1	85	24	VAL	N-CA-C	5.16	116.50	110.62
1	86	187	GLU	CA-C-N	5.16	128.40	121.90
1	86	187	GLU	C-N-CA	5.16	128.40	121.90
1	8a	41	SER	CB-CA-C	-5.16	102.56	110.81
1	8e	173	ARG	N-CA-C	5.16	118.35	111.75
1	8p	28	GLU	CA-C-O	-5.16	114.95	120.42
1	8t	42	ALA	N-CA-C	5.16	119.20	113.01
1	8u	165	VAL	N-CA-CB	5.16	117.56	110.54
1	8K	62	HIS	CB-CG-CD2	-5.16	124.50	131.20
1	8R	89	GLY	CA-C-N	5.16	126.29	119.84
1	8R	89	GLY	C-N-CA	5.16	126.29	119.84
1	8U	12	HIS	CA-CB-CG	5.16	118.96	113.80
1	8Y	29	GLU	CA-C-O	5.16	125.64	119.60
1	94	88	ALA	N-CA-CB	-5.16	101.77	110.49
1	99	73	ILE	N-CA-CB	5.16	116.24	110.51
1	9b	143	ARG	CG-CD-NE	-5.16	100.65	112.00
1	9e	132	ARG	N-CA-C	5.16	116.59	111.07
1	9h	62	HIS	ND1-CG-CD2	5.16	111.26	106.10
1	9w	93	PRO	N-CA-C	5.16	119.33	111.34
1	9B	71	GLU	N-CA-C	5.16	117.30	111.11
1	9G	92	GLU	CA-C-N	5.16	126.29	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9G	92	GLU	C-N-CA	5.16	126.29	119.84
1	9L	201	ILE	N-CA-C	5.16	115.88	110.62
1	9M	21	ASN	CA-CB-CG	5.16	117.76	112.60
1	9S	137	GLY	CA-C-N	5.16	127.61	120.29
1	9S	137	GLY	C-N-CA	5.16	127.61	120.29
1	a3	142	VAL	N-CA-C	5.16	115.93	110.72
1	ad	11	VAL	O-C-N	-5.16	117.61	123.03
1	ah	151	LEU	CA-C-O	-5.16	115.08	120.55
1	am	110	THR	CA-CB-OG1	5.16	117.34	109.60
1	ao	185	MET	CG-SD-CE	-5.16	89.55	100.90
1	aq	159	GLU	CA-C-O	-5.16	114.84	119.59
1	ay	126	VAL	CA-C-N	5.16	125.71	119.98
1	ay	126	VAL	C-N-CA	5.16	125.71	119.98
1	13	219	GLN	CA-C-N	5.16	130.31	121.07
1	13	219	GLN	C-N-CA	5.16	130.31	121.07
1	aT	72	THR	N-CA-CB	5.16	117.49	110.01
1	aX	139	ASN	CA-C-N	5.16	127.71	120.28
1	aX	139	ASN	C-N-CA	5.16	127.71	120.28
1	15	58	THR	CA-CB-OG1	5.16	117.34	109.60
1	b4	29	GLU	CA-C-O	-5.16	114.95	120.42
1	b7	118	MET	CA-C-O	5.16	125.03	119.15
1	b8	199	LYS	N-CA-C	5.16	117.64	111.71
1	be	151	LEU	CA-C-O	5.16	125.90	119.97
1	bl	182	LYS	CA-C-O	-5.16	115.06	120.63
1	bq	230	VAL	CB-CA-C	5.16	118.25	110.98
1	bv	103	ASP	N-CA-CB	5.16	117.79	110.16
1	bv	170	LYS	CA-C-N	5.16	127.19	120.28
1	bv	170	LYS	C-N-CA	5.16	127.19	120.28
1	bw	163	ASP	CA-C-O	5.16	125.39	119.35
1	bF	48	THR	CA-C-N	5.16	125.20	119.32
1	bF	48	THR	C-N-CA	5.16	125.20	119.32
1	bF	227	LYS	CA-C-N	5.16	129.69	122.36
1	bF	227	LYS	C-N-CA	5.16	129.69	122.36
1	cb	130	TYR	CB-CG-CD1	5.16	128.54	120.80
1	cp	168	PHE	CA-C-N	5.16	127.19	120.28
1	cp	168	PHE	C-N-CA	5.16	127.19	120.28
1	cr	130	TYR	CA-C-O	5.16	126.23	120.82
1	1f	162	ARG	CA-C-N	5.16	127.19	120.28
1	1f	162	ARG	C-N-CA	5.16	127.19	120.28
1	cD	134	ILE	O-C-N	-5.16	116.86	121.91
1	cD	195	ASN	OD1-CG-ND2	-5.16	117.44	122.60
1	cH	59	VAL	CB-CA-C	-5.16	104.44	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	111	LEU	CB-CA-C	5.16	119.35	110.79
1	cR	19	THR	CA-C-N	5.16	127.46	120.44
1	cR	19	THR	C-N-CA	5.16	127.46	120.44
1	cS	200	THR	N-CA-C	5.16	117.57	111.33
1	cT	226	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	cX	213	GLU	N-CA-CB	-5.16	102.32	110.06
1	d3	82	ARG	CB-CG-CD	5.16	123.16	111.30
1	da	57	ASN	N-CA-C	-5.16	106.96	113.20
1	db	15	ILE	CA-C-O	5.16	126.74	121.58
1	dc	1	PRO	N-CA-C	-5.16	99.20	112.10
1	dd	75	GLU	CA-C-N	5.16	127.61	120.29
1	dd	75	GLU	C-N-CA	5.16	127.61	120.29
1	df	61	GLY	N-CA-C	5.16	121.02	112.66
1	dg	143	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	dw	192	GLN	CA-C-O	5.16	126.24	120.82
1	dL	62	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	1n	30	LYS	CA-C-N	5.16	131.40	121.54
1	1n	30	LYS	C-N-CA	5.16	131.40	121.54
1	dT	29	GLU	N-CA-C	5.16	119.63	113.23
1	dX	111	LEU	O-C-N	-5.16	115.92	122.27
1	dX	203	LYS	CA-C-N	5.16	127.14	120.44
1	dX	203	LYS	C-N-CA	5.16	127.14	120.44
1	e1	72	THR	CA-C-N	5.16	129.10	120.64
1	e1	72	THR	C-N-CA	5.16	129.10	120.64
1	e1	191	VAL	N-CA-C	5.16	119.67	112.50
1	e2	216	THR	O-C-N	-5.16	116.15	122.34
1	e3	85	PRO	CA-C-N	5.16	131.26	121.97
1	e3	85	PRO	C-N-CA	5.16	131.26	121.97
1	e8	17	PRO	CA-C-N	5.16	127.50	120.54
1	e8	17	PRO	C-N-CA	5.16	127.50	120.54
1	eh	45	GLU	O-C-N	-5.16	116.46	122.96
1	et	31	ALA	N-CA-C	5.16	116.15	108.31
1	eO	171	THR	O-C-N	-5.16	115.52	122.23
1	eQ	177	ALA	O-C-N	-5.16	117.17	123.10
1	eZ	152	ASP	CA-C-N	5.16	128.00	120.98
1	eZ	152	ASP	C-N-CA	5.16	128.00	120.98
1	f8	164	TYR	CA-C-O	-5.16	115.40	120.82
1	fi	178	SER	O-C-N	-5.16	116.47	122.81
1	fj	112	GLN	CA-C-O	-5.16	115.08	120.55
1	fk	135	ILE	N-CA-C	5.16	115.93	110.72
1	fm	98	GLU	O-C-N	-5.16	116.38	121.18
1	1x	82	ARG	CD-NE-CZ	5.16	131.62	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1x	174	ALA	CA-C-N	5.16	129.04	120.94
1	1x	174	ALA	C-N-CA	5.16	129.04	120.94
1	fv	9	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	fz	13	GLN	CB-CG-CD	-5.16	103.83	112.60
1	fz	38	PRO	CA-C-N	5.16	127.15	120.44
1	fz	38	PRO	C-N-CA	5.16	127.15	120.44
1	fF	84	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	fG	7	GLN	CB-CG-CD	-5.16	103.83	112.60
1	fH	75	GLU	CA-C-N	5.16	127.50	120.54
1	fH	75	GLU	C-N-CA	5.16	127.50	120.54
1	fJ	189	LEU	CB-CA-C	-5.16	101.09	110.63
1	fM	182	LYS	CA-C-N	5.16	127.71	120.28
1	fM	182	LYS	C-N-CA	5.16	127.71	120.28
1	fP	125	PRO	CA-C-N	5.16	127.75	120.42
1	fP	125	PRO	C-N-CA	5.16	127.75	120.42
1	fS	171	THR	CA-C-O	5.16	125.24	119.41
1	g4	92	GLU	O-C-N	-5.16	115.39	121.32
1	1	218	CYS	N-CA-C	5.16	118.71	112.93
1	1	220	GLY	CA-C-N	5.16	128.22	120.69
1	1	220	GLY	C-N-CA	5.16	128.22	120.69
1	2	18	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	x	18	ARG	NH1-CZ-NH2	-5.16	112.59	119.30
1	B	183	ASN	CA-CB-CG	5.16	117.76	112.60
1	6	48	THR	CA-C-N	5.16	124.61	119.24
1	6	48	THR	C-N-CA	5.16	124.61	119.24
1	gd	114	GLN	N-CA-C	5.16	116.90	111.28
1	ge	26	VAL	N-CA-CB	5.16	117.55	110.54
1	gf	184	TRP	CA-C-O	-5.16	115.08	120.55
1	gi	80	TRP	CB-CG-CD2	-5.16	119.58	126.80
1	gl	66	MET	CG-SD-CE	-5.16	89.56	100.90
1	gn	158	LYS	CA-C-N	-5.16	113.88	123.11
1	gn	158	LYS	C-N-CA	-5.16	113.88	123.11
1	gp	74	ASN	CA-C-N	5.16	127.46	120.65
1	gp	74	ASN	C-N-CA	5.16	127.46	120.65
1	gt	25	LYS	N-CA-C	5.16	117.30	111.11
1	gw	21	ASN	CA-C-O	-5.16	114.95	120.42
1	gS	62	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	h0	183	ASN	CA-C-O	5.16	125.89	120.42
1	h9	178	SER	O-C-N	5.16	128.94	122.86
1	hc	135	ILE	O-C-N	-5.16	116.78	121.94
1	hu	87	HIS	N-CA-C	5.16	116.13	108.60
1	i7	48	THR	CA-C-O	-5.16	115.34	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iv	218	CYS	CA-C-N	5.16	131.39	121.54
1	iv	218	CYS	C-N-CA	5.16	131.39	121.54
1	iA	55	MET	N-CA-C	5.16	116.98	111.36
1	iB	159	GLU	CA-C-N	5.16	126.29	119.84
1	iB	159	GLU	C-N-CA	5.16	126.29	119.84
1	iC	43	LEU	CD1-CG-CD2	5.16	122.15	110.80
1	iK	46	GLY	CA-C-N	5.16	128.03	120.71
1	iK	46	GLY	C-N-CA	5.16	128.03	120.71
1	iV	194	ALA	N-CA-C	5.16	117.34	110.53
1	jR	35	GLU	O-C-N	-5.16	116.19	122.22
1	jT	39	MET	CA-C-N	5.16	127.19	120.28
1	jT	39	MET	C-N-CA	5.16	127.19	120.28
1	jW	123	PRO	O-C-N	5.16	129.27	123.03
1	jW	210	THR	O-C-N	-5.16	117.13	122.96
1	k4	230	VAL	N-CA-CB	-5.16	105.16	112.12
1	kc	71	GLU	O-C-N	-5.16	116.65	122.12
1	kf	173	ARG	N-CA-C	5.16	116.59	111.07
1	kg	143	ARG	N-CA-C	5.16	116.59	111.07
1	ko	225	GLY	CA-C-O	5.16	129.21	122.61
1	kr	70	LYS	CA-C-O	5.16	125.90	119.97
1	kA	161	PHE	CA-C-N	5.16	129.33	120.72
1	kA	161	PHE	C-N-CA	5.16	129.33	120.72
1	24	190	LEU	CA-C-O	5.16	126.42	120.90
1	lg	7	GLN	CA-C-O	5.16	127.37	120.98
1	lA	117	TRP	CE3-CZ3-CH2	-5.16	114.39	121.10
1	2k	154	ARG	NH1-CZ-NH2	-5.16	112.60	119.30
1	2t	16	SER	N-CA-C	5.16	116.32	109.93
1	2C	160	PRO	CA-C-N	5.16	127.14	120.44
1	2C	160	PRO	C-N-CA	5.16	127.14	120.44
1	2W	203	LYS	O-C-N	-5.16	116.76	122.07
1	3a	208	ALA	CA-C-N	5.16	128.17	120.90
1	3a	208	ALA	C-N-CA	5.16	128.17	120.90
1	3k	230	VAL	N-CA-C	5.16	116.23	109.58
1	3s	120	HIS	N-CA-C	5.16	117.36	110.35
1	3D	189	LEU	CA-C-N	5.16	127.71	120.28
1	3D	189	LEU	C-N-CA	5.16	127.71	120.28
1	3S	185	MET	O-C-N	-5.16	116.65	122.12
1	43	115	ILE	CA-C-N	5.16	125.82	119.99
1	43	115	ILE	C-N-CA	5.16	125.82	119.99
1	4g	140	LYS	N-CA-CB	5.16	117.70	110.12
1	4H	88	ALA	N-CA-C	5.16	117.91	110.28
1	4K	49	PRO	O-C-N	5.16	128.17	122.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	50	228	ALA	O-C-N	-5.16	115.73	122.59
1	54	200	THR	CA-C-N	5.16	127.25	120.60
1	54	200	THR	C-N-CA	5.16	127.25	120.60
1	5c	167	ARG	CB-CG-CD	5.16	123.16	111.30
1	5p	175	GLU	CA-C-N	5.16	129.88	122.35
1	5p	175	GLU	C-N-CA	5.16	129.88	122.35
1	5u	8	GLY	CA-C-O	5.16	127.22	121.86
1	5N	146	SER	CA-C-O	-5.16	113.09	120.16
1	5N	222	GLY	CA-C-N	5.16	129.97	121.87
1	5N	222	GLY	C-N-CA	5.16	129.97	121.87
1	5P	132	ARG	N-CA-CB	5.16	117.70	110.12
1	67	143	ARG	N-CA-C	5.16	116.98	111.36
1	69	90	PRO	N-CD-CG	5.16	110.94	103.20
1	7f	81	ASP	CA-C-N	5.16	127.14	120.44
1	7f	81	ASP	C-N-CA	5.16	127.14	120.44
1	7Q	67	GLN	CA-C-N	5.16	127.61	120.29
1	7Q	67	GLN	C-N-CA	5.16	127.61	120.29
1	8a	163	ASP	N-CA-CB	5.16	118.16	110.22
1	8b	156	GLY	O-C-N	-5.16	117.78	122.42
1	8e	1	PRO	CB-CA-C	5.16	119.90	110.10
1	8i	170	LYS	O-C-N	-5.16	116.65	122.12
1	8r	167	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	8D	213	GLU	CA-C-O	5.16	126.23	120.82
1	8U	159	GLU	N-CA-CB	5.16	116.99	110.23
1	8X	205	LEU	N-CA-CB	5.16	118.27	110.28
1	93	59	VAL	N-CA-CB	5.16	117.04	110.13
1	9p	223	GLY	CA-C-O	-5.16	117.07	122.38
1	9C	82	ARG	NH1-CZ-NH2	-5.16	112.60	119.30
1	9E	133	TRP	CE2-CD2-CG	-5.16	101.01	107.20
1	9F	174	ALA	CA-C-N	5.16	128.54	120.75
1	9F	174	ALA	C-N-CA	5.16	128.54	120.75
1	9H	82	ARG	NE-CZ-NH2	5.16	123.84	119.20
1	9O	185	MET	CG-SD-CE	-5.16	89.56	100.90
1	a0	55	MET	CG-SD-CE	-5.16	89.56	100.90
1	a5	46	GLY	CA-C-N	5.16	129.04	120.94
1	a5	46	GLY	C-N-CA	5.16	129.04	120.94
1	am	178	SER	O-C-N	-5.16	116.47	122.81
1	au	97	ARG	NE-CZ-NH2	5.16	123.84	119.20
1	aw	125	PRO	CA-C-O	-5.16	117.49	121.31
1	b2	71	GLU	N-CA-CB	5.16	117.80	110.06
1	b8	132	ARG	CA-C-N	5.16	127.71	120.28
1	b8	132	ARG	C-N-CA	5.16	127.71	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ba	81	ASP	CA-CB-CG	-5.16	107.44	112.60
1	bc	201	ILE	CA-C-N	5.16	127.19	120.28
1	bc	201	ILE	C-N-CA	5.16	127.19	120.28
1	bx	74	ASN	CA-C-O	-5.16	115.08	120.55
1	c1	102	SER	N-CA-CB	-5.16	102.29	110.28
1	cc	181	VAL	CA-C-N	5.16	127.19	120.28
1	cc	181	VAL	C-N-CA	5.16	127.19	120.28
1	1d	20	LEU	N-CA-C	5.16	116.98	111.36
1	d7	126	VAL	N-CA-CB	-5.16	104.02	110.47
1	1j	120	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
1	dg	176	GLN	CB-CG-CD	-5.16	103.83	112.60
1	ds	65	ALA	N-CA-CB	-5.16	102.53	110.01
1	e1	184	TRP	CG-CD2-CE3	5.16	139.06	133.90
1	ea	54	THR	O-C-N	-5.16	116.76	122.07
1	eg	126	VAL	N-CA-C	5.16	115.88	110.62
1	es	100	ARG	NH1-CZ-NH2	-5.16	112.60	119.30
1	eA	86	VAL	N-CA-C	-5.16	107.95	112.90
1	eH	162	ARG	NH1-CZ-NH2	-5.16	112.60	119.30
1	fl	102	SER	O-C-N	-5.16	115.34	122.46
1	fw	168	PHE	CA-CB-CG	5.16	118.96	113.80
1	d	5	ASN	CB-CA-C	5.16	119.37	110.45
1	r	112	GLN	CB-CG-CD	5.16	121.37	112.60
1	T	65	ALA	CA-C-O	5.16	126.02	120.55
1	g9	25	LYS	N-CA-C	5.16	116.90	111.28
1	gZ	212	GLU	O-C-N	-5.16	116.66	122.12
1	h7	56	LEU	CB-CA-C	-5.16	102.23	110.79
1	hb	62	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	hq	52	LEU	N-CA-C	5.16	116.90	111.28
1	hu	203	LYS	N-CA-C	-5.16	106.25	112.54
1	hz	117	TRP	CE2-CD2-CG	-5.16	101.01	107.20
1	hA	212	GLU	N-CA-C	5.16	119.88	111.37
1	hL	229	ARG	CA-C-N	5.16	128.49	120.34
1	hL	229	ARG	C-N-CA	5.16	128.49	120.34
1	hM	184	TRP	O-C-N	-5.16	116.19	122.22
1	hO	121	ASN	O-C-N	-5.16	114.30	121.47
1	hU	148	THR	CA-CB-CG2	5.16	119.27	110.50
1	hX	97	ARG	NE-CZ-NH1	5.16	126.66	121.50
1	1N	40	PHE	O-C-N	5.16	127.58	122.12
1	1N	115	ILE	N-CA-C	-5.16	105.36	110.62
1	i9	24	VAL	CA-C-N	5.16	127.14	120.44
1	i9	24	VAL	C-N-CA	5.16	127.14	120.44
1	id	157	PRO	CA-C-O	-5.16	114.53	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ih	87	HIS	O-C-N	-5.16	116.93	123.01
1	iw	204	ALA	CA-C-O	5.16	126.01	120.70
1	iU	30	LYS	N-CA-C	5.16	120.21	112.94
1	iU	110	THR	CA-C-N	5.16	128.15	120.31
1	iU	110	THR	C-N-CA	5.16	128.15	120.31
1	iV	62	HIS	CB-CG-CD2	-5.16	124.50	131.20
1	j2	210	THR	CA-C-N	5.16	127.19	120.28
1	j2	210	THR	C-N-CA	5.16	127.19	120.28
1	j4	143	ARG	CG-CD-NE	-5.16	100.66	112.00
1	1U	163	ASP	O-C-N	-5.16	115.42	122.33
1	jd	23	TRP	N-CA-C	5.16	116.59	111.07
1	je	23	TRP	CA-CB-CG	5.16	123.40	113.60
1	jp	170	LYS	CA-C-N	5.16	127.61	120.29
1	jp	170	LYS	C-N-CA	5.16	127.61	120.29
1	jq	230	VAL	CA-C-O	5.16	126.75	121.23
1	1X	21	ASN	CA-CB-CG	5.16	117.76	112.60
1	jS	120	HIS	CG-CD2-NE2	5.16	112.36	107.20
1	jS	135	ILE	N-CA-CB	-5.16	103.53	110.54
1	jX	126	VAL	N-CA-C	5.16	116.50	110.62
1	k0	181	VAL	N-CA-CB	5.16	117.55	110.54
1	k3	222	GLY	O-C-N	-5.16	117.74	123.05
1	kb	107	THR	CA-C-O	5.16	126.23	120.82
1	kd	113	GLU	CB-CA-C	-5.16	102.09	110.85
1	ki	78	ALA	CA-C-O	5.16	126.02	120.55
1	kl	54	THR	CA-C-N	5.16	127.14	120.44
1	kl	54	THR	C-N-CA	5.16	127.14	120.44
1	km	81	ASP	CA-CB-CG	5.16	117.75	112.60
1	ko	225	GLY	O-C-N	-5.16	117.87	122.77
1	kr	120	HIS	O-C-N	-5.16	115.73	122.59
1	kx	38	PRO	CA-C-N	5.16	127.50	120.54
1	kx	38	PRO	C-N-CA	5.16	127.50	120.54
1	kB	123	PRO	N-CA-C	5.16	119.41	111.21
1	kI	111	LEU	N-CA-C	5.16	116.90	111.28
1	kN	7	GLN	CA-C-O	5.16	127.02	121.55
1	kN	124	ILE	CA-C-O	-5.16	115.44	119.20
1	lb	62	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	lh	123	PRO	CA-C-N	-5.16	119.09	122.60
1	lh	123	PRO	C-N-CA	-5.16	119.09	122.60
1	lp	69	LEU	CA-C-N	5.16	127.19	120.28
1	lp	69	LEU	C-N-CA	5.16	127.19	120.28
1	ls	98	GLU	O-C-N	-5.16	114.63	121.64
1	lv	25	LYS	CA-C-O	5.16	126.02	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lw	55	MET	CG-SD-CE	-5.16	89.56	100.90
1	lA	149	SER	O-C-N	-5.16	116.53	122.87
1	29	12	HIS	CG-CD2-NE2	5.16	112.36	107.20
1	lE	96	MET	O-C-N	-5.16	117.14	122.96
1	lJ	168	PHE	O-C-N	-5.16	116.76	122.07
1	2m	153	ILE	O-C-N	-5.16	117.14	122.66
1	2w	226	HIS	N-CA-CB	5.16	118.24	110.30
1	2A	36	VAL	O-C-N	-5.16	115.97	121.80
1	2A	84	HIS	CB-CG-CD2	-5.16	124.50	131.20
1	39	48	THR	CA-CB-OG1	5.16	117.33	109.60
1	3c	70	LYS	CA-C-N	5.16	127.61	120.29
1	3c	70	LYS	C-N-CA	5.16	127.61	120.29
1	3d	97	ARG	CG-CD-NE	-5.16	100.66	112.00
1	3i	165	VAL	CA-CB-CG1	5.16	119.17	110.40
1	3l	36	VAL	N-CA-C	5.16	115.88	110.62
1	3p	67	GLN	O-C-N	-5.16	116.66	122.12
1	3w	191	VAL	CA-C-N	5.16	128.15	120.31
1	3w	191	VAL	C-N-CA	5.16	128.15	120.31
1	3z	223	GLY	CA-C-N	5.16	126.29	119.84
1	3z	223	GLY	C-N-CA	5.16	126.29	119.84
1	3F	229	ARG	O-C-N	-5.16	117.71	123.48
1	3H	24	VAL	N-CA-CB	5.16	116.58	110.55
1	3J	27	VAL	CA-C-N	5.16	127.19	120.28
1	3J	27	VAL	C-N-CA	5.16	127.19	120.28
1	3J	33	SER	CA-CB-OG	5.16	121.41	111.10
1	3R	110	THR	N-CA-C	5.16	117.77	110.50
1	3X	135	ILE	CA-C-O	5.16	126.31	120.85
1	45	76	GLU	CA-C-O	5.16	126.02	120.55
1	4f	120	HIS	N-CA-C	5.16	117.51	110.24
1	4k	131	LYS	CG-CD-CE	5.16	123.16	111.30
1	4r	13	GLN	CA-C-N	5.16	128.53	120.75
1	4r	13	GLN	C-N-CA	5.16	128.53	120.75
1	4z	203	LYS	N-CA-C	5.16	116.90	111.28
1	4A	61	GLY	O-C-N	-5.16	117.39	122.86
1	4D	131	LYS	N-CA-C	5.16	116.90	111.28
1	4E	149	SER	N-CA-C	5.16	117.47	108.76
1	4F	180	GLU	N-CA-CB	-5.16	102.54	110.12
1	4I	143	ARG	NE-CZ-NH2	-5.16	114.56	119.20
1	4L	98	GLU	N-CA-CB	-5.16	101.61	110.01
1	4M	208	ALA	CB-CA-C	5.16	118.67	109.29
1	4Q	222	GLY	CA-C-N	5.16	128.84	121.42
1	4Q	222	GLY	C-N-CA	5.16	128.84	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4T	165	VAL	N-CA-C	5.16	115.93	110.72
1	4Y	110	THR	CA-C-O	-5.16	115.37	121.66
1	4Y	150	ILE	CA-C-N	5.16	127.19	120.28
1	4Y	150	ILE	C-N-CA	5.16	127.19	120.28
1	4Z	34	PRO	CA-C-N	5.16	128.85	120.60
1	4Z	34	PRO	C-N-CA	5.16	128.85	120.60
1	51	220	GLY	CA-C-N	-5.16	114.41	122.09
1	51	220	GLY	C-N-CA	-5.16	114.41	122.09
1	52	26	VAL	N-CA-CB	5.16	116.58	110.55
1	53	161	PHE	N-CA-C	-5.16	105.66	111.28
1	54	8	GLY	CA-C-N	5.16	131.39	121.54
1	54	8	GLY	C-N-CA	5.16	131.39	121.54
1	5b	162	ARG	NH1-CZ-NH2	-5.16	112.60	119.30
1	5b	195	ASN	CA-C-N	5.16	126.28	119.84
1	5b	195	ASN	C-N-CA	5.16	126.28	119.84
1	5f	19	THR	N-CA-C	5.16	117.30	111.11
1	5f	203	LYS	CA-C-N	5.16	127.91	120.38
1	5f	203	LYS	C-N-CA	5.16	127.91	120.38
1	5j	176	GLN	CA-C-N	5.16	128.03	120.71
1	5j	176	GLN	C-N-CA	5.16	128.03	120.71
1	5v	11	VAL	CB-CA-C	-5.16	104.72	110.96
1	5w	30	LYS	N-CA-CB	5.16	118.37	110.95
1	5x	169	TYR	N-CA-C	-5.16	105.74	111.36
1	5y	22	ALA	CA-C-N	5.16	127.14	120.44
1	5y	22	ALA	C-N-CA	5.16	127.14	120.44
1	5A	189	LEU	CA-C-O	-5.16	115.06	120.63
1	5D	186	THR	CB-CA-C	-5.16	102.79	110.88
1	5E	176	GLN	CA-C-N	5.16	128.42	121.05
1	5E	176	GLN	C-N-CA	5.16	128.42	121.05
1	5H	4	GLN	CB-CA-C	5.16	118.76	109.64
1	5J	169	TYR	CA-C-N	5.16	128.15	120.31
1	5J	169	TYR	C-N-CA	5.16	128.15	120.31
1	5R	62	HIS	ND1-CG-CD2	5.16	111.25	106.10
1	5X	179	GLN	N-CA-C	5.16	116.90	111.28
1	62	2	ILE	N-CA-CB	5.16	119.89	111.44
1	64	19	THR	N-CA-CB	5.16	117.48	110.01
1	64	171	THR	N-CA-C	5.16	116.59	111.07
1	66	31	ALA	N-CA-CB	-5.16	102.17	109.85
1	68	10	MET	CA-C-O	5.16	127.88	120.51
1	68	138	LEU	CA-C-N	5.16	128.15	120.31
1	68	138	LEU	C-N-CA	5.16	128.15	120.31
1	6h	23	TRP	CB-CA-C	5.16	118.97	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6j	40	PHE	O-C-N	5.16	129.45	122.59
1	6m	68	MET	N-CA-CB	5.16	117.48	110.01
1	6p	27	VAL	O-C-N	-5.16	116.52	121.83
1	6p	110	THR	O-C-N	-5.16	117.14	122.96
1	6s	159	GLU	N-CA-C	5.16	117.01	109.84
1	6J	216	THR	O-C-N	5.16	128.53	122.34
1	70	96	MET	N-CA-CB	5.16	117.65	109.71
1	71	102	SER	N-CA-C	-5.16	105.84	111.82
1	71	198	CYS	N-CA-C	5.16	117.30	111.11
1	7g	167	ARG	CA-C-O	5.16	125.89	120.42
1	7o	187	GLU	O-C-N	-5.16	115.25	122.37
1	7r	149	SER	CA-C-N	5.16	129.20	120.64
1	7r	149	SER	C-N-CA	5.16	129.20	120.64
1	7u	42	ALA	CA-C-N	5.16	127.19	120.28
1	7u	42	ALA	C-N-CA	5.16	127.19	120.28
1	7A	27	VAL	N-CA-CB	5.16	116.58	110.55
1	7H	43	LEU	CA-C-O	5.16	125.93	120.10
1	7Z	28	GLU	CA-C-O	-5.16	115.09	120.55
1	7Z	162	ARG	CA-C-N	5.16	127.19	120.28
1	7Z	162	ARG	C-N-CA	5.16	127.19	120.28
1	8k	83	LEU	O-C-N	-5.16	117.29	123.06
1	8m	92	GLU	CA-C-O	5.16	126.32	120.70
1	8C	13	GLN	O-C-N	-5.16	116.93	123.17
1	8C	100	ARG	O-C-N	-5.16	116.97	122.85
1	8G	221	VAL	CA-C-O	-5.16	115.69	121.36
1	95	9	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	9e	18	ARG	N-CA-C	5.16	116.58	111.07
1	9f	96	MET	CA-C-O	5.16	125.93	120.36
1	9m	113	GLU	N-CA-C	5.16	116.59	111.07
1	9o	118	MET	N-CA-C	5.16	119.28	112.89
1	9H	4	GLN	N-CA-C	-5.16	105.01	111.92
1	9P	64	ALA	N-CA-C	5.16	117.30	111.11
1	a7	125	PRO	CA-N-CD	5.16	119.22	112.00
1	10	156	GLY	CA-C-N	5.16	125.23	119.87
1	10	156	GLY	C-N-CA	5.16	125.23	119.87
1	af	67	GLN	CB-CG-CD	5.16	121.36	112.60
1	ai	186	THR	CA-C-N	5.16	128.58	122.44
1	ai	186	THR	C-N-CA	5.16	128.58	122.44
1	aj	36	VAL	N-CA-C	5.16	117.53	111.09
1	al	80	TRP	CB-CG-CD2	5.16	134.02	126.80
1	am	12	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	ap	115	ILE	CA-C-N	5.16	131.51	121.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ap	115	ILE	C-N-CA	5.16	131.51	121.41
1	ar	104	ILE	N-CA-C	5.16	115.88	110.62
1	ar	133	TRP	CB-CG-CD1	5.16	134.63	126.90
1	12	81	ASP	CA-C-N	5.16	127.61	120.29
1	12	81	ASP	C-N-CA	5.16	127.61	120.29
1	ay	27	VAL	CA-C-N	5.16	127.19	120.28
1	ay	27	VAL	C-N-CA	5.16	127.19	120.28
1	aJ	30	LYS	N-CA-C	5.16	118.78	112.03
1	aK	82	ARG	CG-CD-NE	-5.16	100.66	112.00
1	aN	44	SER	O-C-N	-5.16	115.34	122.46
1	aW	230	VAL	N-CA-C	5.16	116.12	108.65
1	b6	140	LYS	N-CA-C	5.16	116.59	111.07
1	bc	131	LYS	CA-C-O	5.16	126.02	120.55
1	bj	110	THR	N-CA-C	5.16	117.36	110.35
1	bq	127	GLY	CA-C-O	-5.16	115.20	120.66
1	bt	173	ARG	N-CA-C	5.16	117.30	111.11
1	bA	115	ILE	N-CA-CB	5.16	117.55	110.54
1	bM	34	PRO	N-CA-CB	-5.16	97.84	103.25
1	bM	162	ARG	N-CA-CB	-5.16	102.54	110.12
1	bP	64	ALA	O-C-N	5.16	127.38	122.07
1	bV	67	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	c7	167	ARG	N-CA-C	5.16	117.30	111.11
1	1d	213	GLU	O-C-N	-5.16	116.27	122.15
1	co	199	LYS	CA-C-N	5.16	127.44	120.38
1	co	199	LYS	C-N-CA	5.16	127.44	120.38
1	cq	102	SER	N-CA-C	5.16	116.90	111.28
1	1g	13	GLN	OE1-CD-NE2	-5.16	117.44	122.60
1	1g	171	THR	N-CA-CB	5.16	117.88	110.20
1	cL	33	SER	CA-C-O	-5.16	113.10	120.16
1	cO	89	GLY	CA-C-O	5.16	128.89	121.52
1	cR	141	ILE	O-C-N	-5.16	116.52	121.83
1	1h	44	SER	N-CA-CB	-5.16	102.52	110.46
1	d1	99	PRO	CA-C-O	-5.16	115.64	121.98
1	d1	139	ASN	O-C-N	5.16	127.58	122.12
1	d8	195	ASN	N-CA-C	5.16	116.19	109.64
1	dd	156	GLY	O-C-N	-5.16	116.61	121.77
1	1k	230	VAL	O-C-N	-5.16	117.05	122.57
1	dy	33	SER	O-C-N	-5.16	117.89	121.65
1	dG	29	GLU	CB-CG-CD	5.16	121.36	112.60
1	dI	9	GLN	CB-CG-CD	-5.16	103.84	112.60
1	dJ	229	ARG	CA-C-O	5.16	124.49	118.77
1	dR	151	LEU	CA-C-O	5.16	125.70	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eb	12	HIS	ND1-CE1-NE2	5.16	113.56	108.40
1	eb	154	ARG	N-CA-C	5.16	117.37	109.07
1	eb	183	ASN	CA-C-N	5.16	127.19	120.28
1	eb	183	ASN	C-N-CA	5.16	127.19	120.28
1	1p	226	HIS	CA-CB-CG	5.16	118.95	113.80
1	ed	138	LEU	CB-CA-C	-5.16	102.23	110.79
1	eh	177	ALA	N-CA-C	5.16	117.71	110.23
1	ex	209	ALA	N-CA-CB	-5.16	102.01	110.21
1	ez	77	ALA	CA-C-N	5.16	127.19	120.28
1	ez	77	ALA	C-N-CA	5.16	127.19	120.28
1	eM	67	GLN	CB-CA-C	5.16	119.35	110.79
1	1t	209	ALA	CB-CA-C	-5.16	99.73	110.40
1	eU	131	LYS	CB-CA-C	5.16	119.06	110.81
1	eZ	184	TRP	N-CA-C	5.16	116.98	111.36
1	eZ	191	VAL	O-C-N	-5.16	116.86	121.91
1	fk	173	ARG	CA-C-O	5.16	125.31	119.18
1	fk	220	GLY	CA-C-N	5.16	127.74	120.42
1	fk	220	GLY	C-N-CA	5.16	127.74	120.42
1	1x	133	TRP	CA-C-N	5.16	127.06	120.56
1	1x	133	TRP	C-N-CA	5.16	127.06	120.56
1	fN	214	MET	CA-C-O	5.16	126.01	120.70
1	fS	131	LYS	CB-CG-CD	5.16	123.16	111.30
1	fW	97	ARG	O-C-N	-5.16	115.73	122.59
1	g0	160	PRO	N-CA-C	5.16	120.70	113.53
1	g6	230	VAL	CB-CA-C	5.16	119.75	111.29
1	g7	85	PRO	N-CA-C	-5.16	103.07	111.68
1	n	111	LEU	CA-C-N	5.16	127.19	120.28
1	n	111	LEU	C-N-CA	5.16	127.19	120.28
1	p	48	THR	N-CA-CB	5.16	117.47	110.05
1	r	76	GLU	N-CA-C	5.16	116.98	111.36
1	w	184	TRP	N-CA-C	5.16	117.30	111.11
1	y	64	ALA	O-C-N	-5.16	116.66	122.12
1	A	10	MET	N-CA-C	5.16	117.17	109.59
1	D	164	TYR	N-CA-C	5.16	116.58	111.07
1	H	177	ALA	CA-C-N	5.16	130.32	121.87
1	H	177	ALA	C-N-CA	5.16	130.32	121.87
1	T	219	GLN	CA-C-O	5.16	125.90	120.33
1	8	104	ILE	O-C-N	-5.16	116.66	121.87
1	1C	93	PRO	CB-CA-C	-5.15	103.06	111.56
1	gy	16	SER	N-CA-CB	-5.15	102.59	110.11
1	gP	65	ALA	O-C-N	-5.15	116.73	122.09
1	ha	4	GLN	N-CA-CB	5.15	117.94	109.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hp	52	LEU	CA-C-N	5.15	127.14	120.44
1	hp	52	LEU	C-N-CA	5.15	127.14	120.44
1	hp	88	ALA	N-CA-CB	-5.15	103.57	111.56
1	hq	188	THR	N-CA-C	5.15	120.56	110.56
1	ht	107	THR	N-CA-CB	5.15	118.24	110.30
1	hU	113	GLU	CA-C-N	5.15	127.14	120.44
1	hU	113	GLU	C-N-CA	5.15	127.14	120.44
1	1N	13	GLN	O-C-N	-5.15	117.38	123.41
1	i8	107	THR	N-CA-CB	5.15	117.48	110.01
1	ia	14	ALA	N-CA-C	5.15	117.70	110.23
1	ir	53	ASN	CA-C-N	5.15	127.61	120.29
1	ir	53	ASN	C-N-CA	5.15	127.61	120.29
1	ix	223	GLY	O-C-N	-5.15	116.62	121.77
1	iA	184	TRP	CE2-CD2-CE3	5.15	123.95	118.80
1	iC	134	ILE	N-CA-C	5.15	115.77	110.36
1	1R	164	TYR	CA-C-N	5.15	127.74	120.42
1	1R	164	TYR	C-N-CA	5.15	127.74	120.42
1	iW	139	ASN	N-CA-CB	5.15	117.70	110.12
1	j1	129	ILE	CB-CA-C	-5.15	105.11	112.22
1	j3	177	ALA	CA-C-O	-5.15	115.94	121.56
1	jc	46	GLY	N-CA-C	5.15	122.84	114.90
1	jc	140	LYS	CA-C-O	-5.15	115.41	120.82
1	1V	123	PRO	CB-CA-C	-5.15	104.81	111.46
1	jm	175	GLU	CB-CG-CD	5.15	121.36	112.60
1	jK	58	THR	CA-CB-CG2	-5.15	101.74	110.50
1	jQ	34	PRO	O-C-N	-5.15	115.00	122.37
1	kd	12	HIS	N-CA-CB	5.15	119.34	110.68
1	kd	200	THR	CA-C-O	-5.15	115.41	120.82
1	km	132	ARG	NE-CZ-NH2	5.15	123.84	119.20
1	kI	87	HIS	CA-CB-CG	5.15	118.95	113.80
1	24	167	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	kQ	147	PRO	O-C-N	5.15	128.41	122.23
1	kR	80	TRP	CA-C-N	5.15	127.19	120.28
1	kR	80	TRP	C-N-CA	5.15	127.19	120.28
1	l4	13	GLN	O-C-N	-5.15	116.49	123.19
1	l8	201	ILE	CB-CA-C	-5.15	105.18	112.14
1	l9	131	LYS	CA-C-O	5.15	126.23	120.82
1	lb	205	LEU	CA-C-N	5.15	129.96	121.87
1	lb	205	LEU	C-N-CA	5.15	129.96	121.87
1	lu	230	VAL	N-CA-C	5.15	117.05	109.63
1	ly	67	GLN	N-CA-C	5.15	116.58	111.07
1	lG	126	VAL	CA-C-N	5.15	125.66	119.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lG	126	VAL	C-N-CA	5.15	125.66	119.94
1	lH	198	CYS	CA-C-O	5.15	126.01	120.55
1	2n	112	GLN	CA-C-N	5.15	127.14	120.44
1	2n	112	GLN	C-N-CA	5.15	127.14	120.44
1	2o	209	ALA	CA-C-N	5.15	131.38	121.54
1	2o	209	ALA	C-N-CA	5.15	131.38	121.54
1	2z	230	VAL	CA-C-N	5.15	130.98	121.70
1	2z	230	VAL	C-N-CA	5.15	130.98	121.70
1	34	167	ARG	N-CA-C	5.15	118.03	111.69
1	3s	162	ARG	N-CA-C	5.15	117.57	111.33
1	3G	181	VAL	N-CA-CB	5.15	116.23	110.51
1	41	89	GLY	CA-C-N	5.15	126.28	119.84
1	41	89	GLY	C-N-CA	5.15	126.28	119.84
1	46	87	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	49	119	THR	CA-CB-OG1	5.15	117.33	109.60
1	4k	145	TYR	O-C-N	-5.15	116.16	122.34
1	4z	55	MET	CA-C-N	5.15	128.14	120.31
1	4z	55	MET	C-N-CA	5.15	128.14	120.31
1	4B	184	TRP	CA-C-N	5.15	127.14	120.44
1	4B	184	TRP	C-N-CA	5.15	127.14	120.44
1	4D	29	GLU	N-CA-C	5.15	119.62	113.23
1	4D	108	THR	CA-CB-OG1	5.15	117.33	109.60
1	5j	40	PHE	N-CA-C	5.15	116.90	111.28
1	5k	210	THR	O-C-N	-5.15	116.36	122.65
1	5m	137	GLY	O-C-N	-5.15	116.66	122.28
1	5u	10	MET	N-CA-CB	-5.15	102.94	110.47
1	5v	128	GLU	N-CA-C	5.15	116.98	111.36
1	5v	169	TYR	N-CA-C	5.15	116.98	111.36
1	5D	90	PRO	N-CA-C	5.15	119.30	111.11
1	5R	176	GLN	CA-C-N	5.15	128.17	120.90
1	5R	176	GLN	C-N-CA	5.15	128.17	120.90
1	6d	194	ALA	N-CA-CB	5.15	118.17	109.92
1	6j	124	ILE	O-C-N	-5.15	116.33	121.12
1	6m	223	GLY	CA-C-N	5.15	124.47	118.85
1	6m	223	GLY	C-N-CA	5.15	124.47	118.85
1	6n	76	GLU	O-C-N	5.15	127.38	122.07
1	6n	142	VAL	CA-C-O	5.15	126.41	121.05
1	6A	57	ASN	CA-C-O	5.15	125.72	119.38
1	6N	126	VAL	CA-CB-CG1	5.15	119.16	110.40
1	6R	15	ILE	CA-C-O	-5.15	115.46	121.80
1	72	26	VAL	CB-CA-C	-5.15	105.28	111.88
1	7i	98	GLU	CA-C-O	-5.15	114.65	119.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7p	52	LEU	N-CA-C	5.15	116.90	111.28
1	7L	179	GLN	CA-C-O	5.15	125.92	120.10
1	7R	145	TYR	CG-CD1-CE1	-5.15	113.47	121.20
1	80	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	85	130	TYR	CB-CG-CD2	-5.15	113.07	120.80
1	8l	62	HIS	ND1-CG-CD2	5.15	111.25	106.10
1	9x	78	ALA	N-CA-C	5.15	116.90	111.28
1	9y	179	GLN	CA-C-N	5.15	127.14	120.44
1	9y	179	GLN	C-N-CA	5.15	127.14	120.44
1	9O	36	VAL	CA-C-N	5.15	124.45	120.33
1	9O	36	VAL	C-N-CA	5.15	124.45	120.33
1	9P	103	ASP	CA-CB-CG	-5.15	107.45	112.60
1	an	185	MET	CA-C-O	5.15	125.88	120.42
1	ar	12	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	aC	92	GLU	CB-CG-CD	-5.15	103.84	112.60
1	15	173	ARG	NE-CZ-NH2	5.15	123.84	119.20
1	b0	194	ALA	O-C-N	-5.15	117.17	122.94
1	b3	22	ALA	N-CA-CB	-5.15	102.54	110.12
1	bZ	152	ASP	CA-C-O	5.15	124.81	119.14
1	c2	113	GLU	N-CA-CB	5.15	117.70	110.12
1	c6	15	ILE	CB-CA-C	5.15	117.80	111.25
1	cL	73	ILE	CA-C-N	5.15	127.19	120.28
1	cL	73	ILE	C-N-CA	5.15	127.19	120.28
1	cS	115	ILE	CA-CB-CG2	5.15	119.26	110.50
1	d2	26	VAL	N-CA-CB	5.15	117.17	110.57
1	d4	120	HIS	CA-C-O	-5.15	115.94	121.56
1	de	132	ARG	O-C-N	-5.15	116.27	122.15
1	1l	34	PRO	N-CA-C	5.15	120.54	113.84
1	dB	47	ALA	N-CA-C	5.15	117.91	110.28
1	dC	100	ARG	O-C-N	-5.15	116.31	122.65
1	ea	30	LYS	O-C-N	-5.15	116.67	122.34
1	ei	158	LYS	CA-C-N	5.15	128.42	121.20
1	ei	158	LYS	C-N-CA	5.15	128.42	121.20
1	eu	173	ARG	CA-C-N	5.15	127.19	120.28
1	eu	173	ARG	C-N-CA	5.15	127.19	120.28
1	ew	21	ASN	N-CA-C	5.15	116.90	111.28
1	eB	41	SER	CA-C-N	5.15	127.19	120.28
1	eB	41	SER	C-N-CA	5.15	127.19	120.28
1	eD	128	GLU	CA-C-N	5.15	127.05	120.56
1	eD	128	GLU	C-N-CA	5.15	127.05	120.56
1	eI	80	TRP	O-C-N	-5.15	116.66	122.12
1	eL	179	GLN	N-CA-C	5.15	116.90	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1u	56	LEU	CA-C-N	5.15	127.14	120.44
1	1u	56	LEU	C-N-CA	5.15	127.14	120.44
1	f6	69	LEU	CA-C-N	5.15	127.50	120.54
1	f6	69	LEU	C-N-CA	5.15	127.50	120.54
1	f9	180	GLU	CA-C-O	5.15	126.01	120.55
1	fe	177	ALA	N-CA-C	5.15	117.70	110.23
1	fC	170	LYS	CA-C-O	5.15	126.01	120.70
1	fO	162	ARG	N-CA-C	5.15	119.88	111.37
1	fX	23	TRP	CB-CG-CD1	-5.15	119.17	126.90
1	d	145	TYR	CA-CB-CG	-5.15	104.62	113.90
1	u	31	ALA	CA-C-N	-5.15	115.69	122.85
1	u	31	ALA	C-N-CA	-5.15	115.69	122.85
1	G	154	ARG	CD-NE-CZ	5.15	131.62	124.40
1	U	150	ILE	O-C-N	-5.15	116.67	121.87
1	V	40	PHE	O-C-N	5.15	128.61	122.27
1	g9	167	ARG	NE-CZ-NH2	-5.15	114.56	119.20
1	gc	163	ASP	N-CA-CB	5.15	117.78	110.16
1	gg	168	PHE	CA-C-N	5.15	130.16	121.14
1	gg	168	PHE	C-N-CA	5.15	130.16	121.14
1	gh	139	ASN	CB-CG-ND2	5.15	124.13	116.40
1	gh	229	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	gk	88	ALA	CA-C-N	5.15	129.96	121.87
1	gk	88	ALA	C-N-CA	5.15	129.96	121.87
1	gl	40	PHE	N-CA-C	5.15	117.64	111.71
1	go	124	ILE	CB-CG1-CD1	5.15	124.62	113.80
1	gp	69	LEU	CA-C-N	5.15	127.14	120.44
1	gp	69	LEU	C-N-CA	5.15	127.14	120.44
1	gr	204	ALA	N-CA-C	5.15	116.90	111.28
1	gt	155	GLN	CB-CG-CD	5.15	121.36	112.60
1	gz	221	VAL	CA-C-N	5.15	128.72	121.30
1	gz	221	VAL	C-N-CA	5.15	128.72	121.30
1	gR	113	GLU	CA-C-O	-5.15	115.09	120.55
1	gT	110	THR	CA-C-O	-5.15	115.73	121.81
1	gU	147	PRO	CA-C-O	-5.15	115.72	121.23
1	gW	98	GLU	N-CA-C	5.15	116.18	109.64
1	gY	132	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	h2	139	ASN	CA-C-N	5.15	128.14	120.31
1	h2	139	ASN	C-N-CA	5.15	128.14	120.31
1	1H	74	ASN	O-C-N	-5.15	115.93	122.27
1	hh	161	PHE	CA-CB-CG	-5.15	108.65	113.80
1	hp	27	VAL	N-CA-CB	5.15	116.58	110.55
1	1J	115	ILE	CA-C-O	5.15	126.63	121.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hD	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	1L	219	GLN	N-CA-C	5.15	118.83	112.54
1	hP	131	LYS	CA-C-O	-5.15	115.09	120.55
1	i1	126	VAL	N-CA-CB	5.15	117.55	110.54
1	i6	203	LYS	CA-C-O	5.15	126.01	120.55
1	ia	35	GLU	CA-C-N	5.15	127.16	120.56
1	ia	35	GLU	C-N-CA	5.15	127.16	120.56
1	ia	150	ILE	CA-CB-CG2	5.15	119.26	110.50
1	id	167	ARG	CA-C-N	5.15	127.45	120.44
1	id	167	ARG	C-N-CA	5.15	127.45	120.44
1	ih	188	THR	N-CA-C	5.15	116.98	111.36
1	ik	120	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	im	119	THR	N-CA-C	-5.15	106.92	114.39
1	io	80	TRP	CB-CG-CD2	-5.15	119.59	126.80
1	ip	186	THR	N-CA-CB	-5.15	102.37	110.30
1	ix	195	ASN	CA-CB-CG	5.15	117.75	112.60
1	iy	194	ALA	CB-CA-C	-5.15	100.77	110.51
1	iA	121	ASN	CA-C-O	-5.15	114.60	119.55
1	iI	63	GLN	OE1-CD-NE2	5.15	127.75	122.60
1	iJ	93	PRO	O-C-N	-5.15	116.35	122.89
1	1T	70	LYS	CA-C-N	5.15	127.19	120.28
1	1T	70	LYS	C-N-CA	5.15	127.19	120.28
1	jf	149	SER	CA-C-N	5.15	127.52	120.46
1	jf	149	SER	C-N-CA	5.15	127.52	120.46
1	jl	87	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	jr	140	LYS	O-C-N	5.15	128.61	122.27
1	1W	226	HIS	N-CA-C	5.15	117.31	111.02
1	jT	48	THR	CA-C-N	5.15	125.19	119.32
1	jT	48	THR	C-N-CA	5.15	125.19	119.32
1	jU	23	TRP	CD2-CE2-CZ2	-5.15	117.25	122.40
1	k2	23	TRP	O-C-N	-5.15	116.76	122.07
1	k6	90	PRO	N-CA-C	5.15	119.29	111.15
1	k9	122	PRO	CA-C-N	5.15	125.15	119.89
1	k9	122	PRO	C-N-CA	5.15	125.15	119.89
1	kf	11	VAL	CA-C-N	5.15	130.25	122.99
1	kf	11	VAL	C-N-CA	5.15	130.25	122.99
1	kj	183	ASN	O-C-N	-5.15	116.76	122.07
1	ko	229	ARG	NE-CZ-NH2	-5.15	114.56	119.20
1	22	150	ILE	O-C-N	-5.15	115.30	122.05
1	kK	2	ILE	CA-C-N	5.15	129.89	123.14
1	kK	2	ILE	C-N-CA	5.15	129.89	123.14
1	kY	132	ARG	N-CA-C	-5.15	105.58	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l0	32	PHE	CA-CB-CG	-5.15	108.65	113.80
1	l1	178	SER	O-C-N	-5.15	116.47	122.81
1	lc	161	PHE	CA-CB-CG	5.15	118.95	113.80
1	li	58	THR	N-CA-C	-5.15	106.50	112.89
1	lv	229	ARG	N-CA-C	5.15	118.39	112.57
1	lw	185	MET	CA-C-N	5.15	127.70	120.28
1	lw	185	MET	C-N-CA	5.15	127.70	120.28
1	2a	153	ILE	CA-C-N	5.15	130.60	122.36
1	2a	153	ILE	C-N-CA	5.15	130.60	122.36
1	lQ	209	ALA	N-CA-C	5.15	117.70	110.23
1	2i	2	ILE	CA-CB-CG2	-5.15	101.74	110.50
1	2l	24	VAL	N-CA-C	5.15	115.37	110.42
1	2m	71	GLU	CA-CB-CG	5.15	124.41	114.10
1	2p	7	GLN	CB-CG-CD	5.15	121.36	112.60
1	2p	185	MET	CA-C-N	5.15	127.50	120.54
1	2p	185	MET	C-N-CA	5.15	127.50	120.54
1	2r	212	GLU	N-CA-C	5.15	116.90	111.28
1	2s	5	ASN	CA-CB-CG	5.15	117.75	112.60
1	2v	162	ARG	CD-NE-CZ	5.15	131.61	124.40
1	2v	177	ALA	CA-C-N	5.15	128.03	120.71
1	2v	177	ALA	C-N-CA	5.15	128.03	120.71
1	2A	89	GLY	CA-C-N	5.15	125.16	119.90
1	2A	89	GLY	C-N-CA	5.15	125.16	119.90
1	2H	185	MET	CA-C-N	5.15	127.61	120.29
1	2H	185	MET	C-N-CA	5.15	127.61	120.29
1	2I	78	ALA	N-CA-C	5.15	116.98	111.36
1	2L	214	MET	O-C-N	-5.15	116.76	122.07
1	31	146	SER	O-C-N	-5.15	116.83	121.31
1	33	203	LYS	CA-C-N	5.15	127.14	120.44
1	33	203	LYS	C-N-CA	5.15	127.14	120.44
1	3r	23	TRP	CE2-CD2-CE3	5.15	123.95	118.80
1	3x	53	ASN	CA-CB-CG	-5.15	107.45	112.60
1	3J	133	TRP	N-CA-C	5.15	116.58	111.07
1	3M	111	LEU	N-CA-C	5.15	116.89	111.28
1	3X	35	GLU	CA-C-N	5.15	128.79	120.55
1	3X	35	GLU	C-N-CA	5.15	128.79	120.55
1	3Z	15	ILE	O-C-N	-5.15	117.42	122.67
1	3Z	133	TRP	N-CA-C	-5.15	105.58	111.14
1	4b	48	THR	CA-C-N	5.15	124.60	119.24
1	4b	48	THR	C-N-CA	5.15	124.60	119.24
1	4x	170	LYS	CG-CD-CE	-5.15	99.45	111.30
1	4y	132	ARG	NE-CZ-NH2	5.15	123.84	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4C	128	GLU	CB-CA-C	-5.15	102.09	110.85
1	4D	159	GLU	N-CA-CB	-5.15	102.87	110.14
1	4M	47	ALA	N-CA-C	5.15	117.91	110.28
1	4M	124	ILE	CB-CA-C	-5.15	104.86	110.78
1	4Y	52	LEU	CA-C-O	-5.15	115.09	120.55
1	57	79	GLU	CA-C-N	5.15	127.70	120.28
1	57	79	GLU	C-N-CA	5.15	127.70	120.28
1	5e	48	THR	N-CA-C	-5.15	103.65	110.40
1	5f	187	GLU	N-CA-C	5.15	117.31	111.02
1	5J	5	ASN	CA-C-N	5.15	130.16	122.74
1	5J	5	ASN	C-N-CA	5.15	130.16	122.74
1	5O	209	ALA	N-CA-C	5.15	117.91	110.28
1	61	215	MET	CA-C-N	5.15	128.14	120.31
1	61	215	MET	C-N-CA	5.15	128.14	120.31
1	63	20	LEU	N-CA-C	5.15	116.58	111.07
1	65	166	ASP	CA-C-O	5.15	126.19	120.63
1	66	44	SER	O-C-N	-5.15	115.74	122.39
1	68	176	GLN	OE1-CD-NE2	5.15	127.75	122.60
1	69	173	ARG	N-CA-C	-5.15	105.56	111.07
1	6a	133	TRP	CH2-CZ2-CE2	-5.15	110.80	117.50
1	6p	201	ILE	N-CA-C	-5.15	105.69	110.53
1	6v	221	VAL	CA-C-N	5.15	126.06	120.44
1	6v	221	VAL	C-N-CA	5.15	126.06	120.44
1	6z	81	ASP	O-C-N	-5.15	116.66	122.12
1	6A	140	LYS	N-CA-CB	5.15	117.54	110.07
1	6E	62	HIS	CB-CG-CD2	-5.15	124.50	131.20
1	6J	183	ASN	CA-C-O	5.15	125.88	120.42
1	6T	35	GLU	CA-C-O	5.15	125.70	119.31
1	71	177	ALA	O-C-N	-5.15	116.36	122.65
1	72	173	ARG	CG-CD-NE	-5.15	100.66	112.00
1	78	140	LYS	N-CA-C	5.15	116.58	111.07
1	7c	47	ALA	N-CA-C	5.15	118.34	110.20
1	7c	100	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	7d	186	THR	N-CA-C	5.15	117.64	111.71
1	7f	90	PRO	CA-C-N	5.15	131.25	121.97
1	7f	90	PRO	C-N-CA	5.15	131.25	121.97
1	7l	87	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	7s	50	GLN	N-CA-CB	5.15	117.48	110.01
1	7z	187	GLU	N-CA-CB	5.15	117.79	110.16
1	7E	101	GLY	CA-C-N	5.15	127.70	120.28
1	7E	101	GLY	C-N-CA	5.15	127.70	120.28
1	7J	151	LEU	O-C-N	-5.15	116.16	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7S	4	GLN	CA-CB-CG	5.15	124.40	114.10
1	84	64	ALA	CA-C-O	-5.15	115.39	120.70
1	8a	40	PHE	CA-C-O	5.15	126.41	121.00
1	8a	104	ILE	O-C-N	-5.15	116.87	121.87
1	8i	72	THR	N-CA-CB	5.15	117.48	110.01
1	8i	141	ILE	N-CA-C	5.15	115.37	110.42
1	8i	173	ARG	N-CA-C	5.15	116.89	111.28
1	8k	198	CYS	N-CA-CB	5.15	117.88	110.20
1	8n	49	PRO	CA-C-N	5.15	127.18	120.28
1	8n	49	PRO	C-N-CA	5.15	127.18	120.28
1	8p	142	VAL	O-C-N	-5.15	115.98	121.80
1	8r	155	GLN	CG-CD-OE1	5.15	131.11	120.80
1	8x	123	PRO	N-CD-CG	5.15	110.93	103.20
1	8P	175	GLU	CA-C-N	5.15	129.94	122.36
1	8P	175	GLU	C-N-CA	5.15	129.94	122.36
1	8T	206	GLY	CA-C-O	-5.15	114.15	121.52
1	8X	74	ASN	CB-CG-ND2	5.15	124.13	116.40
1	9d	189	LEU	N-CA-CB	5.15	117.69	110.12
1	9j	26	VAL	O-C-N	-5.15	116.86	121.91
1	9j	131	LYS	CB-CG-CD	5.15	123.15	111.30
1	9y	59	VAL	N-CA-CB	-5.15	103.97	110.31
1	9y	158	LYS	CA-C-N	5.15	128.51	120.68
1	9y	158	LYS	C-N-CA	5.15	128.51	120.68
1	9I	22	ALA	N-CA-C	5.15	116.58	111.07
1	Y	159	GLU	CB-CA-C	5.15	115.89	110.17
1	9V	5	ASN	CB-CG-ND2	5.15	124.13	116.40
1	a2	223	GLY	CA-C-O	-5.15	114.15	121.52
1	a9	112	GLN	CB-CA-C	-5.15	102.23	110.79
1	aj	134	ILE	N-CA-CB	5.15	117.17	110.57
1	ap	7	GLN	CB-CA-C	5.15	119.61	109.72
1	aq	26	VAL	N-CA-C	5.15	115.77	110.36
1	au	120	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	ax	36	VAL	CA-C-N	5.15	124.45	120.33
1	ax	36	VAL	C-N-CA	5.15	124.45	120.33
1	ay	175	GLU	CA-C-N	5.15	127.19	120.28
1	ay	175	GLU	C-N-CA	5.15	127.19	120.28
1	aG	70	LYS	CA-C-N	5.15	128.55	120.82
1	aG	70	LYS	C-N-CA	5.15	128.55	120.82
1	aN	92	GLU	CA-C-N	5.15	126.28	119.84
1	aN	92	GLU	C-N-CA	5.15	126.28	119.84
1	aP	7	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	aX	48	THR	CA-CB-OG1	5.15	117.33	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b0	57	ASN	N-CA-C	5.15	117.80	111.82
1	bi	12	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	bj	94	GLY	N-CA-C	5.15	117.86	111.93
1	bk	223	GLY	O-C-N	-5.15	116.62	121.77
1	bn	190	LEU	N-CA-C	5.15	117.29	111.11
1	bD	127	GLY	CA-C-N	5.15	127.14	120.44
1	bD	127	GLY	C-N-CA	5.15	127.14	120.44
1	bK	118	MET	N-CA-C	5.15	116.90	111.28
1	bL	129	ILE	CA-CB-CG2	5.15	119.26	110.50
1	bM	143	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	bP	119	THR	CA-C-N	5.15	128.53	120.75
1	bP	119	THR	C-N-CA	5.15	128.53	120.75
1	bV	108	THR	O-C-N	-5.15	116.01	122.35
1	1b	20	LEU	N-CA-C	5.15	116.90	111.28
1	1b	185	MET	CA-C-N	5.15	127.50	120.54
1	1b	185	MET	C-N-CA	5.15	127.50	120.54
1	1c	144	MET	N-CA-C	5.15	116.71	111.14
1	ce	144	MET	O-C-N	-5.15	116.66	122.12
1	ck	26	VAL	CA-CB-CG1	5.15	119.16	110.40
1	cm	141	ILE	CA-C-O	-5.15	114.91	120.47
1	cn	62	HIS	N-CA-C	5.15	118.44	111.17
1	cp	101	GLY	CA-C-O	5.15	126.12	120.66
1	ct	82	ARG	NE-CZ-NH2	5.15	123.84	119.20
1	cu	38	PRO	N-CA-CB	5.15	109.21	103.44
1	cv	50	GLN	N-CA-C	-5.15	105.56	111.07
1	cH	55	MET	CA-C-O	5.15	126.01	120.70
1	cM	201	ILE	CA-C-N	5.15	127.44	120.38
1	cM	201	ILE	C-N-CA	5.15	127.44	120.38
1	cO	214	MET	CG-SD-CE	-5.15	89.56	100.90
1	cS	173	ARG	CB-CG-CD	5.15	123.15	111.30
1	1i	179	GLN	O-C-N	-5.15	116.76	122.07
1	d5	70	LYS	N-CA-C	5.15	118.83	112.54
1	d7	144	MET	N-CA-C	5.15	116.90	111.28
1	d9	189	LEU	N-CA-C	5.15	116.58	111.07
1	de	155	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	dg	204	ALA	CA-C-O	-5.15	114.52	120.24
1	dk	219	GLN	CA-C-O	5.15	125.93	119.59
1	dl	23	TRP	CE2-CD2-CE3	5.15	123.95	118.80
1	dl	195	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	do	4	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	dy	193	ASN	CA-C-N	5.15	129.94	121.39
1	dy	193	ASN	C-N-CA	5.15	129.94	121.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dC	172	LEU	O-C-N	5.15	127.38	122.07
1	1m	59	VAL	CA-C-O	5.15	126.22	120.71
1	1m	190	LEU	N-CA-C	5.15	116.90	111.28
1	dJ	165	VAL	CA-C-O	5.15	126.31	120.95
1	dR	12	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	dR	48	THR	N-CA-CB	5.15	116.25	109.55
1	1n	72	THR	N-CA-CB	5.15	117.48	110.01
1	dS	41	SER	CA-C-O	-5.15	115.41	120.82
1	e1	149	SER	N-CA-C	5.15	116.82	109.14
1	eh	90	PRO	N-CA-C	5.15	123.08	112.47
1	ek	227	LYS	CB-CA-C	5.15	117.94	109.90
1	el	84	HIS	O-C-N	-5.15	115.28	121.31
1	er	202	LEU	N-CA-CB	-5.15	102.55	110.12
1	eE	26	VAL	CA-CB-CG1	5.15	119.16	110.40
1	eJ	14	ALA	CA-C-O	5.15	126.80	120.92
1	eM	184	TRP	CH2-CZ2-CE2	-5.15	110.80	117.50
1	eO	157	PRO	CB-CA-C	5.15	121.12	112.62
1	eS	103	ASP	N-CA-C	-5.15	105.35	111.69
1	eZ	9	GLN	CB-CG-CD	5.15	121.36	112.60
1	eZ	143	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	f2	6	LEU	N-CA-C	-5.15	106.95	113.18
1	f8	97	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	1v	96	MET	CA-CB-CG	5.15	124.41	114.10
1	fi	146	SER	CA-C-O	-5.15	115.08	120.70
1	fp	62	HIS	N-CA-C	5.15	118.50	111.39
1	1y	30	LYS	CA-C-O	-5.15	113.46	118.97
1	1y	173	ARG	CD-NE-CZ	-5.15	117.19	124.40
1	fP	85	PRO	O-C-N	-5.15	115.68	122.64
1	0	155	GLN	CA-C-O	-5.15	115.39	121.16
1	0	185	MET	N-CA-C	5.15	116.90	111.28
1	c	77	ALA	CA-C-O	-5.15	115.41	120.82
1	f	65	ALA	N-CA-CB	-5.15	102.55	110.12
1	g	115	ILE	N-CA-C	-5.15	105.47	110.42
1	q	101	GLY	N-CA-C	5.15	118.91	112.73
1	2	48	THR	CA-CB-OG1	5.15	117.33	109.60
1	w	10	MET	CG-SD-CE	-5.15	89.56	100.90
1	F	143	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	H	68	MET	CA-C-N	5.15	127.14	120.44
1	H	68	MET	C-N-CA	5.15	127.14	120.44
1	O	1	PRO	N-CA-CB	5.15	108.67	103.00
1	7	79	GLU	N-CA-C	-5.15	105.75	111.36
1	ga	5	ASN	N-CA-C	5.15	116.58	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gg	218	CYS	N-CA-CB	5.15	122.49	114.45
1	gj	174	ALA	CA-C-N	5.15	128.53	120.75
1	gj	174	ALA	C-N-CA	5.15	128.53	120.75
1	gm	37	ILE	O-C-N	-5.15	117.12	120.42
1	gn	84	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	gn	145	TYR	CA-C-O	5.15	125.38	119.35
1	gu	58	THR	N-CA-CB	5.15	119.41	110.39
1	gy	65	ALA	CA-C-N	5.15	127.44	120.38
1	gy	65	ALA	C-N-CA	5.15	127.44	120.38
1	gD	86	VAL	N-CA-C	5.15	115.27	107.75
1	gJ	137	GLY	CA-C-O	5.15	126.12	120.66
1	gL	156	GLY	N-CA-C	5.15	118.18	112.00
1	gS	199	LYS	N-CA-C	5.15	117.56	111.33
1	gT	120	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	gZ	121	ASN	O-C-N	-5.15	114.76	121.10
1	h0	41	SER	CA-C-O	5.15	125.89	119.97
1	h2	192	GLN	CA-C-O	5.15	126.01	120.55
1	h6	187	GLU	N-CA-C	-5.15	106.68	113.17
1	hb	209	ALA	CA-C-O	5.15	127.86	121.94
1	hd	66	MET	CG-SD-CE	-5.15	89.57	100.90
1	hl	2	ILE	O-C-N	-5.15	117.77	123.18
1	hn	40	PHE	CA-C-O	5.15	126.00	120.70
1	ht	151	LEU	N-CA-C	5.15	118.34	111.75
1	hz	207	PRO	O-C-N	5.15	129.54	122.38
1	hF	186	THR	N-CA-C	5.15	117.79	111.82
1	hP	79	GLU	CA-C-N	5.15	127.70	120.28
1	hP	79	GLU	C-N-CA	5.15	127.70	120.28
1	hV	166	ASP	O-C-N	-5.15	116.76	122.07
1	i2	21	ASN	CB-CG-OD1	5.15	131.10	120.80
1	i5	49	PRO	N-CD-CG	5.15	110.93	103.20
1	i6	152	ASP	N-CA-CB	-5.15	102.87	110.49
1	ip	42	ALA	CA-C-N	5.15	129.32	120.72
1	ip	42	ALA	C-N-CA	5.15	129.32	120.72
1	it	167	ARG	NE-CZ-NH2	-5.15	114.56	119.20
1	iH	85	PRO	N-CA-C	5.15	119.66	111.26
1	iR	40	PHE	O-C-N	-5.15	116.66	122.12
1	iR	155	GLN	CA-C-O	5.15	127.80	121.72
1	iX	170	LYS	O-C-N	-5.15	116.28	122.15
1	iY	103	ASP	O-C-N	-5.15	116.53	122.09
1	j0	107	THR	N-CA-CB	5.15	117.69	110.12
1	j1	22	ALA	CA-C-N	5.15	127.45	120.44
1	j1	22	ALA	C-N-CA	5.15	127.45	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1T	162	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	j2	74	ASN	CA-CB-CG	5.15	117.75	112.60
1	j2	131	LYS	O-C-N	5.15	128.02	122.15
1	j5	163	ASP	O-C-N	5.15	128.60	122.27
1	1U	92	GLU	O-C-N	-5.15	116.14	121.60
1	jc	123	PRO	CA-C-N	-5.15	115.22	123.46
1	jc	123	PRO	C-N-CA	-5.15	115.22	123.46
1	ji	73	ILE	CB-CA-C	-5.15	105.19	112.14
1	jq	205	LEU	CA-C-N	5.15	129.96	121.87
1	jq	205	LEU	C-N-CA	5.15	129.96	121.87
1	jw	25	LYS	N-CA-CB	-5.15	102.55	110.12
1	jK	190	LEU	CA-C-O	5.15	126.01	120.55
1	jM	27	VAL	CB-CA-C	5.15	118.56	111.97
1	jM	161	PHE	O-C-N	5.15	127.58	122.12
1	jP	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	1Y	162	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	jS	100	ARG	N-CA-CB	-5.15	103.07	110.44
1	jU	26	VAL	O-C-N	-5.15	116.87	121.87
1	k0	162	ARG	N-CA-C	5.15	117.29	111.11
1	k8	224	PRO	N-CA-CB	5.15	108.50	102.88
1	ko	59	VAL	N-CA-C	5.15	115.64	108.84
1	kx	66	MET	N-CA-C	5.15	117.63	111.71
1	kG	76	GLU	N-CA-C	5.15	116.97	111.36
1	kP	151	LEU	N-CA-C	5.15	118.82	112.54
1	kR	208	ALA	CB-CA-C	-5.15	104.96	111.86
1	kT	222	GLY	N-CA-C	5.15	121.88	114.10
1	kV	29	GLU	CA-C-O	5.15	126.00	120.70
1	kY	66	MET	O-C-N	-5.15	116.77	122.07
1	l2	129	ILE	O-C-N	-5.15	116.53	121.83
1	l8	12	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	ll	33	SER	O-C-N	-5.15	116.67	121.72
1	ln	6	LEU	N-CA-C	5.15	116.94	110.24
1	lt	87	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	ly	56	LEU	N-CA-C	5.15	116.58	111.07
1	lK	53	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	lM	54	THR	N-CA-C	5.15	116.58	110.97
1	lP	74	ASN	N-CA-C	5.15	116.89	111.28
1	2e	166	ASP	CA-CB-CG	5.15	117.75	112.60
1	2h	141	ILE	O-C-N	-5.15	116.54	121.90
1	2m	209	ALA	CA-C-N	5.15	130.79	122.29
1	2m	209	ALA	C-N-CA	5.15	130.79	122.29
1	2x	15	ILE	O-C-N	-5.15	117.17	122.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	118	MET	N-CA-C	5.15	116.89	111.28
1	2A	168	PHE	O-C-N	-5.15	116.66	122.12
1	2E	30	LYS	CA-C-O	5.15	125.45	119.32
1	2J	167	ARG	N-CA-C	5.15	116.89	111.28
1	2L	64	ALA	CA-C-N	5.15	127.44	120.38
1	2L	64	ALA	C-N-CA	5.15	127.44	120.38
1	2R	113	GLU	CA-C-N	5.15	127.18	120.28
1	2R	113	GLU	C-N-CA	5.15	127.18	120.28
1	2T	18	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	2Z	72	THR	CA-C-O	5.15	126.23	120.82
1	32	85	PRO	CB-CA-C	-5.15	103.06	111.56
1	33	24	VAL	CA-CB-CG2	-5.15	101.64	110.40
1	3a	12	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	3e	220	GLY	N-CA-C	5.15	125.39	113.18
1	3g	85	PRO	N-CA-C	5.15	119.30	111.11
1	3j	59	VAL	N-CA-CB	5.15	116.64	110.31
1	3k	4	GLN	N-CA-CB	5.15	117.58	110.17
1	3l	167	ARG	N-CA-C	5.15	116.89	111.28
1	3n	35	GLU	N-CA-CB	-5.15	102.29	110.22
1	3n	186	THR	N-CA-C	5.15	116.58	111.07
1	3r	58	THR	O-C-N	-5.15	116.66	122.12
1	3D	109	SER	O-C-N	-5.15	116.91	123.24
1	3F	27	VAL	O-C-N	-5.15	115.30	122.05
1	3R	92	GLU	CA-C-N	5.15	126.28	119.84
1	3R	92	GLU	C-N-CA	5.15	126.28	119.84
1	3R	120	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	47	33	SER	CA-C-N	5.15	126.28	119.84
1	47	33	SER	C-N-CA	5.15	126.28	119.84
1	4a	159	GLU	CB-CA-C	5.15	115.27	110.17
1	4A	24	VAL	CA-CB-CG2	-5.15	101.64	110.40
1	4B	52	LEU	CA-C-O	-5.15	115.41	120.82
1	4E	136	LEU	CA-C-O	5.15	126.19	120.63
1	4F	75	GLU	CB-CG-CD	5.15	121.36	112.60
1	4O	167	ARG	N-CA-C	5.15	116.89	111.28
1	4P	80	TRP	O-C-N	-5.15	116.77	122.07
1	4Q	22	ALA	CA-C-N	5.15	128.54	120.82
1	4Q	22	ALA	C-N-CA	5.15	128.54	120.82
1	4S	119	THR	N-CA-CB	5.15	118.11	110.49
1	4T	127	GLY	CA-C-O	-5.15	115.20	120.66
1	51	197	ASP	O-C-N	-5.15	116.76	122.07
1	54	22	ALA	N-CA-C	5.15	116.97	111.36
1	5h	144	MET	N-CA-C	5.15	116.89	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5j	41	SER	N-CA-C	-5.15	105.75	111.36
1	5l	96	MET	O-C-N	-5.15	115.89	122.94
1	5m	194	ALA	CA-C-O	5.15	127.54	121.87
1	5n	163	ASP	CA-CB-CG	5.15	117.75	112.60
1	5z	32	PHE	CA-C-O	5.15	127.35	121.58
1	5C	11	VAL	CB-CA-C	5.15	118.43	110.50
1	5D	42	ALA	N-CA-C	5.15	117.80	111.82
1	5E	227	LYS	CB-CG-CD	5.15	123.15	111.30
1	5M	194	ALA	CA-C-O	5.15	126.86	121.19
1	5T	100	ARG	CA-CB-CG	5.15	124.40	114.10
1	5V	90	PRO	CB-CA-C	5.15	119.33	111.40
1	64	33	SER	O-C-N	-5.15	115.41	121.23
1	68	67	GLN	CA-C-N	5.15	128.14	120.31
1	68	67	GLN	C-N-CA	5.15	128.14	120.31
1	69	39	MET	O-C-N	5.15	127.58	122.12
1	6e	11	VAL	CA-C-O	-5.15	115.82	121.28
1	6q	119	THR	N-CA-C	-5.15	106.24	112.88
1	6y	121	ASN	CA-CB-CG	5.15	117.75	112.60
1	6z	68	MET	N-CA-C	5.15	117.56	111.33
1	6K	154	ARG	CA-C-N	5.15	128.08	120.82
1	6K	154	ARG	C-N-CA	5.15	128.08	120.82
1	6N	108	THR	N-CA-CB	5.15	118.11	110.49
1	6V	101	GLY	CA-C-N	5.15	128.14	120.31
1	6V	101	GLY	C-N-CA	5.15	128.14	120.31
1	6X	21	ASN	N-CA-C	5.15	116.89	111.28
1	71	12	HIS	CB-CG-ND1	5.15	130.43	122.70
1	74	103	ASP	CA-C-N	5.15	127.52	120.46
1	74	103	ASP	C-N-CA	5.15	127.52	120.46
1	79	77	ALA	CA-C-N	5.15	127.61	120.29
1	79	77	ALA	C-N-CA	5.15	127.61	120.29
1	7p	24	VAL	CA-C-O	5.15	126.31	120.95
1	7z	215	MET	CA-C-O	5.15	125.87	119.79
1	7C	182	LYS	O-C-N	5.15	127.58	122.12
1	7H	120	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	7M	43	LEU	N-CA-C	-5.15	106.85	112.72
1	7T	189	LEU	CA-C-N	5.15	127.45	120.65
1	7T	189	LEU	C-N-CA	5.15	127.45	120.65
1	83	113	GLU	O-C-N	-5.15	116.66	122.12
1	87	26	VAL	N-CA-C	5.15	115.36	110.42
1	8a	229	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	8b	5	ASN	CA-CB-CG	5.15	117.75	112.60
1	8c	62	HIS	ND1-CE1-NE2	5.15	113.55	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8n	39	MET	N-CA-C	-5.15	105.67	111.28
1	8T	168	PHE	N-CA-C	5.15	116.58	111.07
1	8U	89	GLY	O-C-N	-5.15	116.62	121.77
1	8X	16	SER	O-C-N	-5.15	116.81	121.39
1	91	41	SER	CA-C-N	5.15	127.49	120.54
1	91	41	SER	C-N-CA	5.15	127.49	120.54
1	97	164	TYR	CZ-CE2-CD2	5.15	128.87	119.60
1	9e	132	ARG	NE-CZ-NH2	5.15	123.84	119.20
1	9h	22	ALA	CA-C-N	5.15	127.18	120.28
1	9h	22	ALA	C-N-CA	5.15	127.18	120.28
1	9j	228	ALA	CA-C-O	5.15	126.81	121.15
1	9m	100	ARG	NE-CZ-NH1	-5.15	116.35	121.50
1	9p	59	VAL	CB-CA-C	-5.15	103.65	111.69
1	9q	188	THR	CA-C-N	5.15	127.18	120.28
1	9q	188	THR	C-N-CA	5.15	127.18	120.28
1	9v	19	THR	CB-CA-C	-5.15	102.09	110.85
1	9J	25	LYS	CA-C-N	5.15	127.52	120.46
1	9J	25	LYS	C-N-CA	5.15	127.52	120.46
1	a1	196	PRO	CB-CA-C	5.15	120.06	111.56
1	a4	35	GLU	CA-C-N	5.15	129.15	120.29
1	a4	35	GLU	C-N-CA	5.15	129.15	120.29
1	a4	74	ASN	CA-CB-CG	-5.15	107.45	112.60
1	a6	215	MET	N-CA-C	5.15	116.89	111.28
1	a7	82	ARG	NH1-CZ-NH2	-5.15	112.60	119.30
1	a9	17	PRO	N-CA-CB	-5.15	98.33	103.48
1	a9	127	GLY	N-CA-C	-5.15	106.18	112.77
1	af	139	ASN	CB-CG-ND2	5.15	124.13	116.40
1	am	221	VAL	CB-CA-C	-5.15	103.72	110.98
1	ap	78	ALA	CA-C-N	5.15	127.18	120.28
1	ap	78	ALA	C-N-CA	5.15	127.18	120.28
1	ap	131	LYS	O-C-N	-5.15	116.66	122.12
1	aq	19	THR	N-CA-C	5.15	116.89	111.28
1	aq	111	LEU	N-CA-C	5.15	117.56	111.33
1	ax	39	MET	CA-C-N	5.15	127.49	120.54
1	ax	39	MET	C-N-CA	5.15	127.49	120.54
1	ay	143	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	aB	112	GLN	OE1-CD-NE2	5.15	127.75	122.60
1	aC	64	ALA	O-C-N	-5.15	116.28	122.15
1	aH	110	THR	CA-CB-OG1	5.15	117.33	109.60
1	aH	226	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	aJ	62	HIS	O-C-N	-5.15	116.40	122.58
1	aM	144	MET	CG-SD-CE	5.15	112.23	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aZ	120	HIS	N-CA-C	5.15	117.18	110.43
1	b2	117	TRP	CE2-CD2-CE3	5.15	123.95	118.80
1	b3	80	TRP	CZ3-CH2-CZ2	-5.15	114.80	121.50
1	b6	132	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	16	113	GLU	CA-C-N	5.15	127.14	120.44
1	16	113	GLU	C-N-CA	5.15	127.14	120.44
1	bd	225	GLY	CA-C-N	5.15	130.86	122.67
1	bd	225	GLY	C-N-CA	5.15	130.86	122.67
1	bg	70	LYS	O-C-N	-5.15	116.66	122.12
1	bm	53	ASN	N-CA-C	5.15	116.58	111.07
1	bq	140	LYS	CA-C-N	5.15	127.52	120.46
1	bq	140	LYS	C-N-CA	5.15	127.52	120.46
1	bq	141	ILE	O-C-N	-5.15	116.87	121.87
1	18	202	LEU	CA-C-O	5.15	126.23	120.82
1	bC	203	LYS	N-CA-C	5.15	116.58	111.07
1	bD	194	ALA	CB-CA-C	-5.15	100.17	110.42
1	bD	221	VAL	CA-C-O	5.15	125.82	119.43
1	bE	90	PRO	CA-C-N	5.15	127.73	120.42
1	bE	90	PRO	C-N-CA	5.15	127.73	120.42
1	bN	17	PRO	CB-CA-C	5.15	119.63	112.11
1	bO	33	SER	CA-C-N	5.15	124.94	119.28
1	bO	33	SER	C-N-CA	5.15	124.94	119.28
1	bU	52	LEU	N-CA-C	5.15	117.56	111.33
1	bU	226	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	1b	48	THR	CA-CB-CG2	-5.15	101.74	110.50
1	c1	191	VAL	CG1-CB-CG2	5.15	122.13	110.80
1	1c	80	TRP	CA-CB-CG	5.15	123.39	113.60
1	c9	161	PHE	CB-CA-C	5.15	119.61	110.85
1	cb	80	TRP	CB-CG-CD1	5.15	134.62	126.90
1	cc	227	LYS	CA-C-N	5.15	127.18	120.28
1	cc	227	LYS	C-N-CA	5.15	127.18	120.28
1	cj	167	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	cp	177	ALA	N-CA-C	5.15	117.35	110.35
1	ct	30	LYS	CA-C-O	5.15	125.56	119.48
1	1f	217	ALA	CA-C-O	5.15	125.87	120.36
1	cE	134	ILE	CA-C-N	5.15	127.73	120.42
1	cE	134	ILE	C-N-CA	5.15	127.73	120.42
1	cP	208	ALA	CA-C-N	5.15	128.99	121.31
1	cP	208	ALA	C-N-CA	5.15	128.99	121.31
1	cQ	143	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	cU	69	LEU	O-C-N	-5.15	116.77	122.07
1	cU	216	THR	N-CA-C	5.15	116.89	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	9	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	d1	141	ILE	CB-CA-C	-5.15	105.19	112.14
1	1i	120	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	df	22	ALA	CA-C-O	5.15	126.01	120.55
1	dj	135	ILE	O-C-N	-5.15	116.87	121.87
1	do	52	LEU	O-C-N	-5.15	116.73	122.09
1	dq	5	ASN	O-C-N	-5.15	115.90	122.34
1	dD	107	THR	O-C-N	5.15	128.27	122.19
1	dF	80	TRP	O-C-N	-5.15	116.66	122.12
1	dK	91	ILE	N-CA-CB	5.15	120.09	110.77
1	dM	172	LEU	CA-C-N	5.15	127.44	120.38
1	dM	172	LEU	C-N-CA	5.15	127.44	120.38
1	dN	228	ALA	O-C-N	-5.15	116.47	122.81
1	e2	181	VAL	CA-C-N	5.15	127.18	120.28
1	e2	181	VAL	C-N-CA	5.15	127.18	120.28
1	e3	206	GLY	CA-C-O	-5.15	114.15	121.52
1	ea	165	VAL	CA-CB-CG2	-5.15	101.64	110.40
1	1p	173	ARG	N-CA-CB	5.15	117.78	110.16
1	ef	103	ASP	CA-C-N	5.15	128.75	120.30
1	ef	103	ASP	C-N-CA	5.15	128.75	120.30
1	er	142	VAL	O-C-N	-5.15	116.67	121.87
1	ew	148	THR	CA-CB-OG1	5.15	117.33	109.60
1	eC	104	ILE	N-CA-C	5.15	115.92	110.72
1	eM	23	TRP	CG-CD2-CE3	-5.15	128.75	133.90
1	eN	176	GLN	CA-C-O	-5.15	115.62	121.65
1	eU	138	LEU	CD1-CG-CD2	-5.15	99.47	110.80
1	eX	58	THR	CA-CB-OG1	5.15	117.33	109.60
1	eZ	13	GLN	N-CA-C	-5.15	100.62	108.76
1	f1	96	MET	O-C-N	-5.15	117.85	123.26
1	fh	130	TYR	CB-CG-CD1	5.15	128.53	120.80
1	fh	138	LEU	CA-C-N	5.15	127.44	120.38
1	fh	138	LEU	C-N-CA	5.15	127.44	120.38
1	fh	226	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	fq	139	ASN	N-CA-C	5.15	116.89	111.28
1	fB	207	PRO	O-C-N	5.15	129.54	122.38
1	fE	207	PRO	CB-CA-C	5.15	116.23	109.89
1	fF	80	TRP	CB-CG-CD1	-5.15	119.17	126.90
1	fG	172	LEU	O-C-N	-5.15	115.94	122.27
1	fP	28	GLU	N-CA-C	5.15	117.56	111.33
1	fX	175	GLU	N-CA-C	5.15	117.70	110.23
1	1A	14	ALA	CA-C-N	5.15	127.40	120.50
1	1A	14	ALA	C-N-CA	5.15	127.40	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	207	PRO	O-C-N	-5.15	115.69	122.64
1	g6	9	GLN	CA-C-O	5.15	125.99	120.38
1	a	67	GLN	CA-C-N	5.15	127.44	120.38
1	a	67	GLN	C-N-CA	5.15	127.44	120.38
1	f	16	SER	N-CA-CB	5.15	117.32	109.75
1	1	55	MET	CA-C-N	5.15	127.61	120.29
1	1	55	MET	C-N-CA	5.15	127.61	120.29
1	m	39	MET	CA-C-N	5.15	127.14	120.44
1	m	39	MET	C-N-CA	5.15	127.14	120.44
1	o	111	LEU	N-CA-CB	-5.15	102.55	110.12
1	q	193	ASN	N-CA-CB	-5.15	102.87	110.49
1	s	196	PRO	N-CA-C	5.15	123.08	112.47
1	u	26	VAL	CB-CA-C	-5.15	105.27	112.02
1	F	18	ARG	NE-CZ-NH2	-5.15	114.56	119.20
1	U	89	GLY	N-CA-C	5.15	122.85	112.34
1	U	146	SER	O-C-N	-5.15	115.86	121.53
1	gj	214	MET	N-CA-CB	5.15	118.26	110.28
1	gu	103	ASP	CA-CB-CG	-5.15	107.45	112.60
1	gw	166	ASP	CA-CB-CG	5.15	117.75	112.60
1	gL	33	SER	O-C-N	-5.15	117.89	121.65
1	gU	207	PRO	N-CA-CB	5.15	108.25	103.46
1	h1	169	TYR	CA-C-O	-5.15	114.05	119.97
1	h3	49	PRO	N-CA-CB	-5.15	97.39	103.26
1	hi	28	GLU	N-CA-CB	5.15	117.60	109.83
1	ho	158	LYS	O-C-N	-5.15	115.16	122.06
1	hw	211	LEU	CA-C-N	5.15	127.49	120.54
1	hw	211	LEU	C-N-CA	5.15	127.49	120.54
1	hx	188	THR	N-CA-CB	5.15	118.05	110.33
1	1K	137	GLY	O-C-N	-5.15	116.42	122.34
1	hB	62	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	hR	120	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	hY	186	THR	CA-CB-CG2	5.15	119.25	110.50
1	ig	192	GLN	CG-CD-NE2	-5.15	108.68	116.40
1	ih	132	ARG	CA-C-N	5.15	128.14	120.31
1	ih	132	ARG	C-N-CA	5.15	128.14	120.31
1	ii	19	THR	CA-C-O	5.15	125.87	119.79
1	iz	188	THR	CA-C-N	5.15	127.13	120.44
1	iz	188	THR	C-N-CA	5.15	127.13	120.44
1	iR	165	VAL	O-C-N	-5.15	115.98	121.80
1	iS	126	VAL	CA-C-O	-5.15	115.69	121.05
1	iV	156	GLY	CA-C-N	5.15	124.76	119.56
1	iV	156	GLY	C-N-CA	5.15	124.76	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1T	176	GLN	CA-CB-CG	5.15	124.40	114.10
1	ju	72	THR	N-CA-C	5.15	116.58	111.07
1	kd	178	SER	CA-CB-OG	5.15	121.40	111.10
1	ki	135	ILE	O-C-N	-5.15	116.53	121.83
1	ki	225	GLY	CA-C-O	5.15	126.12	120.66
1	ky	140	LYS	CA-C-N	5.15	127.52	120.46
1	ky	140	LYS	C-N-CA	5.15	127.52	120.46
1	kK	36	VAL	N-CA-C	5.15	117.53	111.09
1	kM	193	ASN	CB-CA-C	-5.15	101.49	110.09
1	kN	33	SER	N-CA-CB	5.15	116.11	111.27
1	kQ	75	GLU	CB-CG-CD	5.15	121.35	112.60
1	kX	191	VAL	O-C-N	-5.15	116.55	121.90
1	l8	171	THR	O-C-N	-5.15	116.66	122.12
1	lm	110	THR	CA-C-N	5.15	127.43	120.38
1	lm	110	THR	C-N-CA	5.15	127.43	120.38
1	lu	118	MET	CA-C-O	5.15	126.23	120.82
1	lx	132	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	lz	229	ARG	N-CA-C	-5.15	107.13	113.41
1	2e	154	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	2l	160	PRO	N-CA-C	5.15	119.17	111.14
1	2p	74	ASN	N-CA-C	5.15	116.89	111.28
1	2v	124	ILE	CA-C-O	5.15	124.41	119.98
1	2v	226	HIS	CA-CB-CG	5.15	118.95	113.80
1	2Q	112	GLN	CA-C-N	5.15	127.60	120.29
1	2Q	112	GLN	C-N-CA	5.15	127.60	120.29
1	2V	101	GLY	CA-C-N	5.15	127.18	120.28
1	2V	101	GLY	C-N-CA	5.15	127.18	120.28
1	30	159	GLU	N-CA-C	5.15	116.14	109.65
1	30	171	THR	CA-C-N	5.15	127.18	120.28
1	30	171	THR	C-N-CA	5.15	127.18	120.28
1	31	214	MET	O-C-N	-5.15	115.94	122.27
1	3b	188	THR	CA-CB-OG1	5.15	117.32	109.60
1	3R	9	GLN	N-CA-C	5.15	118.08	110.46
1	3Y	62	HIS	O-C-N	-5.15	115.67	122.47
1	4H	164	TYR	CB-CG-CD1	5.15	128.52	120.80
1	4I	52	LEU	CA-C-O	5.15	126.01	120.55
1	4R	137	GLY	CA-C-N	5.15	127.18	120.28
1	4R	137	GLY	C-N-CA	5.15	127.18	120.28
1	4S	151	LEU	N-CA-CB	5.15	117.78	110.16
1	53	13	GLN	CG-CD-OE1	5.15	131.10	120.80
1	55	168	PHE	CB-CA-C	5.15	119.11	110.92
1	5b	108	THR	N-CA-CB	5.15	118.08	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5c	33	SER	CB-CA-C	5.15	117.39	109.15
1	5l	161	PHE	CA-CB-CG	5.15	118.95	113.80
1	5x	67	GLN	OE1-CD-NE2	5.15	127.75	122.60
1	5A	75	GLU	CA-C-N	5.15	127.60	120.29
1	5A	75	GLU	C-N-CA	5.15	127.60	120.29
1	5D	195	ASN	CA-CB-CG	5.15	117.75	112.60
1	5M	83	LEU	N-CA-C	-5.15	106.68	113.17
1	5M	191	VAL	CA-CB-CG2	5.15	119.15	110.40
1	5S	12	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	66	123	PRO	N-CA-C	5.15	119.40	111.21
1	68	137	GLY	N-CA-C	5.15	119.11	112.83
1	6g	229	ARG	CA-C-N	5.15	131.24	121.97
1	6g	229	ARG	C-N-CA	5.15	131.24	121.97
1	6t	140	LYS	O-C-N	-5.15	116.77	122.07
1	6z	92	GLU	CA-C-O	-5.15	115.34	120.64
1	6z	217	ALA	CA-C-O	5.15	127.55	121.58
1	6C	27	VAL	CG1-CB-CG2	-5.15	99.47	110.80
1	6J	105	ALA	CA-C-N	5.15	129.25	120.91
1	6J	105	ALA	C-N-CA	5.15	129.25	120.91
1	6W	75	GLU	N-CA-C	5.15	116.58	111.07
1	76	110	THR	O-C-N	-5.15	116.54	122.87
1	7f	16	SER	CA-C-N	5.15	125.44	119.47
1	7f	16	SER	C-N-CA	5.15	125.44	119.47
1	7w	167	ARG	CG-CD-NE	-5.15	100.67	112.00
1	7w	185	MET	N-CA-C	5.15	116.97	111.36
1	80	5	ASN	CB-CG-ND2	5.15	124.12	116.40
1	8a	78	ALA	CA-C-N	5.15	127.18	120.28
1	8a	78	ALA	C-N-CA	5.15	127.18	120.28
1	8d	34	PRO	CB-CA-C	-5.15	103.06	111.56
1	8n	102	SER	CA-C-N	5.15	127.60	120.29
1	8n	102	SER	C-N-CA	5.15	127.60	120.29
1	8C	62	HIS	N-CA-C	5.15	118.73	111.52
1	8E	183	ASN	CA-CB-CG	-5.15	107.45	112.60
1	8F	156	GLY	O-C-N	-5.15	116.62	121.77
1	96	78	ALA	CB-CA-C	5.15	118.96	110.88
1	9D	84	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	9N	59	VAL	N-CA-CB	-5.15	105.18	110.95
1	9T	115	ILE	CA-C-O	5.15	126.77	121.05
1	ai	120	HIS	CA-C-N	-5.15	115.66	122.56
1	ai	120	HIS	C-N-CA	-5.15	115.66	122.56
1	au	220	GLY	CA-C-N	5.15	128.75	120.30
1	au	220	GLY	C-N-CA	5.15	128.75	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	32	PHE	CB-CG-CD1	5.15	129.45	120.70
1	aF	201	ILE	O-C-N	-5.15	116.86	121.91
1	aR	129	ILE	N-CA-C	5.15	115.87	110.62
1	bv	128	GLU	O-C-N	-5.15	116.66	122.12
1	bI	56	LEU	CA-C-O	5.15	125.88	120.42
1	bR	110	THR	N-CA-CB	5.15	118.80	110.41
1	bY	22	ALA	CA-C-O	5.15	126.01	120.55
1	c4	107	THR	O-C-N	-5.15	116.66	122.12
1	c4	226	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	cg	115	ILE	O-C-N	-5.15	116.88	121.87
1	ch	193	ASN	CA-C-O	5.15	125.67	119.59
1	cD	4	GLN	CB-CA-C	5.15	118.82	110.22
1	d2	45	GLU	CB-CG-CD	5.15	121.35	112.60
1	dg	191	VAL	N-CA-C	-5.15	105.69	110.53
1	dV	190	LEU	N-CA-CB	-5.15	102.55	110.12
1	ed	68	MET	CA-C-N	5.15	127.60	120.29
1	ed	68	MET	C-N-CA	5.15	127.60	120.29
1	ej	145	TYR	CB-CG-CD2	-5.15	113.08	120.80
1	eo	64	ALA	CA-C-N	5.15	127.18	120.28
1	eo	64	ALA	C-N-CA	5.15	127.18	120.28
1	et	192	GLN	N-CA-C	5.15	117.79	111.82
1	eG	173	ARG	N-CA-C	5.15	116.89	111.28
1	eP	141	ILE	N-CA-C	5.15	115.77	110.36
1	eV	203	LYS	CA-C-N	5.15	128.14	120.31
1	eV	203	LYS	C-N-CA	5.15	128.14	120.31
1	eX	89	GLY	O-C-N	5.15	126.92	121.77
1	f6	137	GLY	CA-C-O	-5.15	115.20	120.66
1	fb	212	GLU	O-C-N	-5.15	116.66	122.12
1	fJ	87	HIS	N-CA-CB	5.15	118.16	109.92
1	fV	136	LEU	N-CA-CB	5.15	117.78	110.06
1	fW	226	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	b	143	ARG	N-CA-C	5.15	117.68	111.40
1	p	141	ILE	CA-C-N	5.15	127.05	120.56
1	p	141	ILE	C-N-CA	5.15	127.05	120.56
1	x	34	PRO	CB-CA-C	5.15	120.06	111.56
1	I	26	VAL	N-CA-CB	5.15	117.16	110.57
1	V	77	ALA	CA-C-N	5.15	127.18	120.28
1	V	77	ALA	C-N-CA	5.15	127.18	120.28
1	6	65	ALA	CA-C-N	5.15	127.43	120.38
1	6	65	ALA	C-N-CA	5.15	127.43	120.38
1	gk	175	GLU	CB-CG-CD	5.15	121.35	112.60
1	1E	14	ALA	O-C-N	-5.15	116.54	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1E	48	THR	CA-CB-OG1	5.15	117.32	109.60
1	gD	136	LEU	N-CA-CB	5.15	117.61	109.94
1	gH	153	ILE	N-CA-CB	5.15	117.36	111.39
1	gR	84	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	gW	203	LYS	CA-C-O	5.15	125.74	119.05
1	gX	103	ASP	N-CA-C	5.15	117.63	111.71
1	gX	124	ILE	CB-CA-C	-5.15	104.81	110.52
1	h1	161	PHE	CA-C-N	5.15	127.13	120.44
1	h1	161	PHE	C-N-CA	5.15	127.13	120.44
1	hd	62	HIS	N-CA-C	5.15	121.76	110.80
1	hd	143	ARG	NE-CZ-NH2	-5.15	114.57	119.20
1	he	178	SER	CA-C-N	5.15	128.13	120.31
1	he	178	SER	C-N-CA	5.15	128.13	120.31
1	hg	182	LYS	N-CA-C	5.15	116.89	111.28
1	ho	155	GLN	CA-C-O	5.15	125.98	120.32
1	hp	30	LYS	O-C-N	-5.15	116.12	122.25
1	hq	187	GLU	N-CA-C	5.15	117.79	111.82
1	hu	4	GLN	CA-C-O	5.15	127.87	120.51
1	hw	72	THR	O-C-N	-5.15	116.77	122.07
1	hL	113	GLU	CA-C-N	5.15	127.44	120.44
1	hL	113	GLU	C-N-CA	5.15	127.44	120.44
1	hT	5	ASN	N-CA-C	-5.15	106.24	112.88
1	hY	157	PRO	N-CA-C	5.15	123.07	112.47
1	1N	162	ARG	CD-NE-CZ	-5.15	117.19	124.40
1	i6	2	ILE	CA-C-N	5.15	128.80	122.37
1	i6	2	ILE	C-N-CA	5.15	128.80	122.37
1	i8	4	GLN	N-CA-C	5.15	117.16	109.59
1	id	94	GLY	CA-C-N	5.15	132.23	121.94
1	id	94	GLY	C-N-CA	5.15	132.23	121.94
1	1P	20	LEU	N-CA-CB	5.15	117.69	110.12
1	iu	146	SER	N-CA-CB	5.15	118.41	110.12
1	iJ	50	GLN	CA-C-O	5.15	126.01	120.55
1	iJ	62	HIS	CB-CG-CD2	-5.15	124.51	131.20
1	1S	137	GLY	N-CA-C	5.15	118.91	112.73
1	iU	214	MET	CA-C-N	5.15	128.84	120.60
1	iU	214	MET	C-N-CA	5.15	128.84	120.60
1	iX	154	ARG	CA-C-O	5.15	125.81	120.30
1	iY	134	ILE	N-CA-CB	5.15	117.54	110.54
1	iZ	106	GLY	CA-C-O	-5.15	113.86	118.95
1	j3	184	TRP	N-CA-C	5.15	116.89	111.28
1	jb	131	LYS	CA-C-O	5.15	126.19	120.63
1	jl	185	MET	CB-CA-C	-5.15	102.25	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jr	42	ALA	CA-C-O	-5.15	115.09	120.55
1	1W	226	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	jw	50	GLN	N-CA-C	5.15	116.89	111.28
1	1X	35	GLU	CA-C-N	5.15	127.73	120.42
1	1X	35	GLU	C-N-CA	5.15	127.73	120.42
1	jN	25	LYS	N-CA-C	5.15	116.97	111.36
1	jR	155	GLN	CB-CA-C	-5.15	101.85	110.29
1	jR	168	PHE	CB-CA-C	-5.15	102.57	110.81
1	jU	5	ASN	OD1-CG-ND2	5.15	127.75	122.60
1	jX	219	GLN	O-C-N	-5.15	117.21	123.03
1	kd	99	PRO	N-CA-C	5.15	119.27	111.19
1	kg	149	SER	N-CA-C	5.15	117.35	110.35
1	ki	23	TRP	CA-C-O	5.15	125.88	120.42
1	ku	16	SER	N-CA-C	5.15	115.90	109.57
1	kA	226	HIS	CA-C-O	5.15	126.62	120.70
1	kE	159	GLU	N-CA-CB	5.15	118.95	109.73
1	kL	66	MET	N-CA-C	5.15	116.89	111.28
1	kM	193	ASN	N-CA-C	-5.15	106.68	113.17
1	kO	156	GLY	CA-C-O	-5.15	114.16	121.52
1	kR	108	THR	CA-CB-OG1	5.15	117.32	109.60
1	kR	172	LEU	N-CA-C	5.15	116.89	111.28
1	25	20	LEU	CA-C-N	5.15	127.18	120.28
1	25	20	LEU	C-N-CA	5.15	127.18	120.28
1	l7	177	ALA	CA-C-O	5.15	126.96	121.45
1	26	215	MET	CG-SD-CE	-5.15	89.57	100.90
1	le	57	ASN	CA-C-O	5.15	125.70	119.11
1	27	126	VAL	O-C-N	-5.15	115.98	121.80
1	li	20	LEU	N-CA-C	5.15	116.97	111.36
1	lk	183	ASN	O-C-N	-5.15	116.67	122.12
1	lm	116	GLY	N-CA-C	5.15	118.91	112.73
1	lq	159	GLU	CB-CG-CD	-5.15	103.85	112.60
1	ly	102	SER	CA-C-N	5.15	127.18	120.28
1	ly	102	SER	C-N-CA	5.15	127.18	120.28
1	lA	129	ILE	N-CA-CB	5.15	117.54	110.54
1	lE	224	PRO	N-CA-C	5.15	118.96	111.03
1	lH	23	TRP	CA-C-N	5.15	128.74	120.30
1	lH	23	TRP	C-N-CA	5.15	128.74	120.30
1	lO	191	VAL	CA-C-N	5.15	127.18	120.28
1	lO	191	VAL	C-N-CA	5.15	127.18	120.28
1	2c	229	ARG	N-CA-C	5.15	117.77	110.10
1	2k	53	ASN	O-C-N	-5.15	115.94	122.27
1	2o	16	SER	N-CA-C	5.15	116.56	110.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2U	136	LEU	CA-C-O	5.15	126.19	120.63
1	34	198	CYS	CA-C-O	5.15	125.88	120.42
1	39	226	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	3l	183	ASN	CA-CB-CG	-5.15	107.45	112.60
1	3o	133	TRP	CA-C-O	5.15	125.89	119.97
1	3B	210	THR	CA-C-O	5.15	127.39	121.47
1	3E	124	ILE	CA-CB-CG2	5.15	119.25	110.50
1	3Q	166	ASP	CA-C-N	5.15	127.60	120.29
1	3Q	166	ASP	C-N-CA	5.15	127.60	120.29
1	42	226	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	4a	186	THR	N-CA-CB	5.15	118.26	110.28
1	4e	38	PRO	CA-C-O	-5.15	112.28	119.74
1	4l	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	4l	14	ALA	CA-C-N	5.15	127.48	120.63
1	4l	14	ALA	C-N-CA	5.15	127.48	120.63
1	4l	186	THR	CA-C-N	-5.15	113.01	121.92
1	4l	186	THR	C-N-CA	-5.15	113.01	121.92
1	4s	40	PHE	CA-C-N	5.15	127.13	120.44
1	4s	40	PHE	C-N-CA	5.15	127.13	120.44
1	4v	100	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	4B	56	LEU	CA-C-O	5.15	126.01	120.55
1	4B	101	GLY	CA-C-N	5.15	127.60	120.29
1	4B	101	GLY	C-N-CA	5.15	127.60	120.29
1	4H	197	ASP	CA-C-N	5.15	127.60	120.29
1	4H	197	ASP	C-N-CA	5.15	127.60	120.29
1	4I	168	PHE	N-CA-C	-5.15	105.58	111.14
1	4K	118	MET	CA-C-N	5.15	130.85	122.67
1	4K	118	MET	C-N-CA	5.15	130.85	122.67
1	4P	10	MET	CG-SD-CE	-5.15	89.58	100.90
1	4R	37	ILE	O-C-N	-5.15	116.42	120.07
1	54	15	ILE	CA-C-N	5.15	128.48	120.60
1	54	15	ILE	C-N-CA	5.15	128.48	120.60
1	55	114	GLN	N-CA-C	5.15	116.89	111.28
1	5g	176	GLN	N-CA-CB	-5.15	102.86	110.53
1	5k	135	ILE	CB-CA-C	5.15	119.09	112.14
1	5r	15	ILE	CA-C-O	5.15	127.10	121.13
1	5y	184	TRP	CB-CG-CD1	-5.15	119.18	126.90
1	5B	150	ILE	CB-CG1-CD1	5.15	124.61	113.80
1	5F	120	HIS	O-C-N	-5.15	116.61	122.68
1	5N	156	GLY	O-C-N	-5.15	116.62	121.77
1	5V	185	MET	CA-C-N	5.15	127.18	120.28
1	5V	185	MET	C-N-CA	5.15	127.18	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Y	150	ILE	N-CA-C	-5.15	107.73	112.83
1	62	170	LYS	N-CA-C	5.15	118.66	112.38
1	62	215	MET	CA-C-N	5.15	130.30	122.37
1	62	215	MET	C-N-CA	5.15	130.30	122.37
1	65	183	ASN	N-CA-C	5.15	116.58	111.07
1	6f	124	ILE	N-CA-C	-5.15	102.45	107.55
1	6j	5	ASN	CA-C-N	5.15	131.37	121.54
1	6j	5	ASN	C-N-CA	5.15	131.37	121.54
1	6C	4	GLN	N-CA-C	5.15	117.69	110.23
1	6F	168	PHE	N-CA-CB	-5.15	102.55	110.01
1	6G	100	ARG	CA-C-N	5.15	125.65	119.94
1	6G	100	ARG	C-N-CA	5.15	125.65	119.94
1	6H	22	ALA	CA-C-O	-5.15	114.53	120.24
1	6H	76	GLU	N-CA-CB	5.15	118.15	110.22
1	6Y	95	GLN	OE1-CD-NE2	-5.15	117.45	122.60
1	72	78	ALA	CA-C-N	5.15	127.18	120.28
1	72	78	ALA	C-N-CA	5.15	127.18	120.28
1	77	100	ARG	CA-C-N	5.15	125.81	119.99
1	77	100	ARG	C-N-CA	5.15	125.81	119.99
1	79	180	GLU	N-CA-C	5.15	116.89	111.28
1	7l	138	LEU	N-CA-C	5.15	116.89	111.28
1	7v	12	HIS	O-C-N	-5.15	115.48	122.48
1	7z	27	VAL	N-CA-C	5.15	115.87	110.62
1	7D	104	ILE	O-C-N	5.15	126.86	121.87
1	7L	125	PRO	N-CA-CB	5.15	106.38	102.36
1	7R	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	7V	40	PHE	N-CA-C	5.15	117.29	111.11
1	7Z	63	GLN	CA-CB-CG	-5.15	103.81	114.10
1	85	23	TRP	CA-C-N	5.15	127.79	120.53
1	85	23	TRP	C-N-CA	5.15	127.79	120.53
1	86	172	LEU	N-CA-C	5.15	116.89	111.28
1	8c	188	THR	CA-CB-CG2	5.15	119.25	110.50
1	8j	12	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	8l	113	GLU	CA-C-N	5.15	127.18	120.28
1	8l	113	GLU	C-N-CA	5.15	127.18	120.28
1	8s	94	GLY	CA-C-O	-5.15	113.38	119.45
1	8u	189	LEU	N-CA-C	-5.15	105.75	111.36
1	8w	122	PRO	CA-C-N	5.15	125.39	119.83
1	8w	122	PRO	C-N-CA	5.15	125.39	119.83
1	8S	149	SER	CA-C-O	5.15	126.03	120.32
1	95	141	ILE	N-CA-C	-5.15	105.69	110.53
1	9d	124	ILE	N-CA-CB	5.15	117.56	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9k	46	GLY	CA-C-N	5.15	128.78	121.42
1	9k	46	GLY	C-N-CA	5.15	128.78	121.42
1	9w	20	LEU	N-CA-C	5.15	116.89	111.28
1	9x	91	ILE	CB-CA-C	5.15	118.29	110.62
1	9A	27	VAL	O-C-N	-5.15	115.98	121.80
1	9D	195	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	9K	181	VAL	CA-CB-CG2	-5.15	101.65	110.40
1	9M	92	GLU	CA-C-N	5.15	126.27	119.84
1	9M	92	GLU	C-N-CA	5.15	126.27	119.84
1	9R	168	PHE	O-C-N	-5.15	116.68	122.03
1	Z	194	ALA	CA-C-N	5.15	127.65	120.65
1	Z	194	ALA	C-N-CA	5.15	127.65	120.65
1	a8	86	VAL	N-CA-C	5.15	115.88	108.93
1	aj	57	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	aj	59	VAL	CA-CB-CG1	5.15	119.15	110.40
1	ak	227	LYS	CA-C-O	5.15	125.71	119.38
1	12	12	HIS	CA-C-O	5.15	127.79	121.56
1	aI	7	GLN	CA-C-O	5.15	127.67	121.65
1	aI	149	SER	N-CA-CB	5.15	119.19	110.49
1	aM	21	ASN	CA-CB-CG	-5.15	107.45	112.60
1	aR	121	ASN	OD1-CG-ND2	5.15	127.75	122.60
1	aX	57	ASN	O-C-N	-5.15	115.36	122.46
1	b2	114	GLN	N-CA-C	5.15	116.89	111.28
1	bb	220	GLY	N-CA-C	5.15	121.04	114.66
1	bc	185	MET	N-CA-C	5.15	116.58	111.07
1	bf	193	ASN	CA-C-N	5.15	128.52	120.75
1	bf	193	ASN	C-N-CA	5.15	128.52	120.75
1	bt	190	LEU	CA-C-N	5.15	127.51	120.46
1	bt	190	LEU	C-N-CA	5.15	127.51	120.46
1	bv	129	ILE	O-C-N	-5.15	116.86	121.91
1	bw	66	MET	N-CA-C	5.15	117.29	111.11
1	bN	107	THR	OG1-CB-CG2	-5.15	99.00	109.30
1	bN	135	ILE	N-CA-CB	5.15	116.57	110.55
1	c0	204	ALA	CA-C-N	5.15	129.32	120.72
1	c0	204	ALA	C-N-CA	5.15	129.32	120.72
1	cb	75	GLU	CA-C-N	5.15	127.49	120.54
1	cb	75	GLU	C-N-CA	5.15	127.49	120.54
1	cc	210	THR	CA-C-O	-5.15	116.21	121.87
1	cg	177	ALA	N-CA-C	5.15	117.35	110.35
1	ck	84	HIS	CA-C-O	-5.15	114.25	120.74
1	cp	173	ARG	NH1-CZ-NH2	-5.15	112.61	119.30
1	cs	49	PRO	N-CA-C	5.15	123.07	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cv	178	SER	N-CA-C	5.15	121.76	110.80
1	cw	196	PRO	CA-C-N	5.15	128.13	120.31
1	cw	196	PRO	C-N-CA	5.15	128.13	120.31
1	cD	56	LEU	N-CA-C	5.15	119.27	112.89
1	cD	58	THR	CA-C-N	5.15	128.80	122.37
1	cD	58	THR	C-N-CA	5.15	128.80	122.37
1	cR	87	HIS	CB-CA-C	-5.15	101.85	110.19
1	df	66	MET	CA-C-N	5.15	127.13	120.44
1	df	66	MET	C-N-CA	5.15	127.13	120.44
1	dj	142	VAL	N-CA-C	5.15	117.48	111.05
1	dA	116	GLY	N-CA-C	5.15	118.87	112.64
1	dL	89	GLY	O-C-N	-5.15	116.62	121.77
1	dM	119	THR	CA-C-N	5.15	130.34	120.97
1	dM	119	THR	C-N-CA	5.15	130.34	120.97
1	dX	132	ARG	N-CA-CB	5.15	117.69	110.12
1	eq	185	MET	CG-SD-CE	-5.15	89.57	100.90
1	1r	15	ILE	N-CA-C	5.15	115.88	108.93
1	eA	153	ILE	CA-CB-CG2	-5.15	101.75	110.50
1	eC	80	TRP	N-CA-C	5.15	117.29	111.11
1	1t	102	SER	N-CA-C	5.15	118.82	112.54
1	eX	153	ILE	CB-CA-C	-5.15	104.53	110.91
1	eY	131	LYS	CA-C-O	-5.15	115.42	120.82
1	f1	87	HIS	N-CA-C	5.15	117.90	110.28
1	fe	201	ILE	O-C-N	-5.15	116.88	121.87
1	fv	51	ASP	CA-CB-CG	-5.15	107.45	112.60
1	fw	106	GLY	CA-C-O	5.15	126.11	119.68
1	fz	37	ILE	O-C-N	-5.15	115.23	121.10
1	fA	188	THR	CB-CA-C	5.15	117.32	109.34
1	fG	143	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	fH	154	ARG	NE-CZ-NH1	-5.15	116.35	121.50
1	fZ	126	VAL	CB-CA-C	-5.15	105.30	112.04
1	g2	12	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	b	38	PRO	CA-C-O	-5.15	112.28	119.74
1	b	51	ASP	CB-CA-C	-5.15	102.24	110.79
1	d	95	GLN	CA-C-O	5.15	124.71	119.05
1	f	87	HIS	CB-CG-CD2	-5.15	124.51	131.20
1	f	157	PRO	N-CA-C	5.15	120.30	113.86
1	h	124	ILE	CA-CB-CG2	-5.15	101.75	110.50
1	p	177	ALA	CB-CA-C	-5.15	101.18	109.72
1	r	95	GLN	CB-CG-CD	5.15	121.35	112.60
1	v	120	HIS	CB-CG-ND1	5.15	130.42	122.70
1	A	132	ARG	N-CA-CB	5.15	117.69	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	34	PRO	CA-C-N	5.15	127.18	120.28
1	B	34	PRO	C-N-CA	5.15	127.18	120.28
1	E	53	ASN	OD1-CG-ND2	5.15	127.75	122.60
1	Q	160	PRO	CA-C-N	5.15	127.18	120.28
1	Q	160	PRO	C-N-CA	5.15	127.18	120.28
1	R	5	ASN	CA-C-N	5.15	128.13	120.31
1	R	5	ASN	C-N-CA	5.15	128.13	120.31
1	V	165	VAL	N-CA-CB	5.15	118.30	110.58
1	5	225	GLY	O-C-N	-5.15	117.24	122.70
1	9	104	ILE	N-CA-C	-5.15	105.48	110.42
1	gd	73	ILE	CB-CA-C	5.15	118.78	112.04
1	ge	69	LEU	N-CA-C	5.15	116.58	111.07
1	gE	5	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	gI	182	LYS	CA-C-O	-5.15	114.97	120.42
1	h2	34	PRO	CB-CA-C	-5.15	104.54	111.85
1	h7	3	VAL	CA-CB-CG1	-5.15	101.65	110.40
1	hb	34	PRO	O-C-N	-5.15	115.69	122.64
1	hN	100	ARG	O-C-N	-5.15	116.32	122.65
1	hU	134	ILE	CA-C-N	5.15	127.24	120.60
1	hU	134	ILE	C-N-CA	5.15	127.24	120.60
1	hY	24	VAL	CB-CA-C	-5.15	103.77	112.16
1	ix	11	VAL	CA-C-N	5.15	129.45	122.19
1	ix	11	VAL	C-N-CA	5.15	129.45	122.19
1	iC	20	LEU	CB-CA-C	-5.15	102.10	110.85
1	iO	134	ILE	O-C-N	-5.15	116.53	121.83
1	je	82	ARG	CA-C-N	5.15	127.18	120.28
1	je	82	ARG	C-N-CA	5.15	127.18	120.28
1	jN	23	TRP	CB-CG-CD1	-5.15	119.18	126.90
1	jT	179	GLN	CA-C-N	5.15	127.18	120.28
1	jT	179	GLN	C-N-CA	5.15	127.18	120.28
1	k1	132	ARG	N-CA-C	5.15	117.56	111.33
1	kh	202	LEU	O-C-N	-5.15	116.77	122.07
1	ki	132	ARG	NE-CZ-NH1	5.15	126.65	121.50
1	kD	104	ILE	CB-CA-C	-5.15	105.34	112.24
1	kQ	149	SER	N-CA-CB	5.15	118.77	111.05
1	kQ	163	ASP	CA-C-O	5.15	125.30	119.18
1	l0	164	TYR	CB-CG-CD1	5.15	128.52	120.80
1	l1	46	GLY	O-C-N	-5.15	116.43	122.45
1	l6	159	GLU	CA-C-N	5.15	125.43	119.92
1	l6	159	GLU	C-N-CA	5.15	125.43	119.92
1	27	15	ILE	O-C-N	-5.15	116.14	122.57
1	27	66	MET	O-C-N	-5.15	116.67	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lo	146	SER	CA-C-N	5.15	126.27	119.84
1	lo	146	SER	C-N-CA	5.15	126.27	119.84
1	lu	13	GLN	CA-C-N	5.15	128.08	120.82
1	lu	13	GLN	C-N-CA	5.15	128.08	120.82
1	lC	126	VAL	CA-C-N	5.15	131.50	121.41
1	lC	126	VAL	C-N-CA	5.15	131.50	121.41
1	2A	58	THR	CA-CB-CG2	5.15	119.25	110.50
1	2M	101	GLY	CA-C-O	5.15	126.05	120.75
1	2X	180	GLU	CA-C-N	5.15	127.73	120.42
1	2X	180	GLU	C-N-CA	5.15	127.73	120.42
1	2X	187	GLU	N-CA-C	5.15	116.58	111.07
1	30	80	TRP	N-CA-CB	-5.15	102.56	110.12
1	37	65	ALA	N-CA-C	5.15	117.63	111.71
1	3v	184	TRP	O-C-N	-5.15	115.94	122.27
1	3w	159	GLU	CA-C-N	5.15	125.06	119.76
1	3w	159	GLU	C-N-CA	5.15	125.06	119.76
1	3N	106	GLY	CA-C-O	5.15	124.73	119.02
1	3O	19	THR	CA-C-O	5.15	126.00	120.55
1	3V	154	ARG	N-CA-C	5.15	117.81	109.06
1	41	162	ARG	N-CA-C	5.15	117.28	111.11
1	4d	123	PRO	N-CA-CB	5.15	108.23	103.39
1	4m	26	VAL	CB-CA-C	5.15	118.56	111.97
1	4J	174	ALA	N-CA-C	5.15	116.89	111.28
1	4Z	135	ILE	N-CA-C	5.15	115.87	110.62
1	56	114	GLN	CA-C-O	5.15	126.06	120.55
1	59	12	HIS	CG-CD2-NE2	5.15	112.35	107.20
1	59	133	TRP	CA-C-O	5.15	125.88	120.42
1	5d	52	LEU	O-C-N	-5.15	116.28	122.15
1	5j	205	LEU	N-CA-C	-5.15	106.69	113.17
1	5Z	56	LEU	CA-C-N	5.15	127.69	120.28
1	5Z	56	LEU	C-N-CA	5.15	127.69	120.28
1	67	33	SER	O-C-N	-5.15	115.79	121.66
1	6a	161	PHE	O-C-N	5.15	127.58	122.12
1	6o	118	MET	N-CA-C	-5.15	105.75	112.23
1	6A	125	PRO	N-CA-CB	5.15	106.49	102.73
1	6D	19	THR	O-C-N	-5.15	115.43	122.33
1	7b	167	ARG	N-CA-C	-5.15	106.85	113.23
1	7c	50	GLN	CB-CG-CD	5.15	121.35	112.60
1	7g	121	ASN	O-C-N	-5.15	114.77	121.10
1	7l	85	PRO	N-CD-CG	5.15	110.92	103.20
1	7l	92	GLU	O-C-N	5.15	126.60	121.30
1	7D	229	ARG	CA-C-N	5.15	129.43	121.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7D	229	ARG	C-N-CA	5.15	129.43	121.71
1	81	143	ARG	N-CA-C	5.15	116.97	111.36
1	84	110	THR	CA-C-N	5.15	127.43	120.38
1	84	110	THR	C-N-CA	5.15	127.43	120.38
1	87	31	ALA	N-CA-C	5.15	121.76	110.80
1	8a	16	SER	CA-C-O	-5.15	115.87	120.19
1	96	50	GLN	CA-CB-CG	-5.15	103.81	114.10
1	9v	60	GLY	CA-C-N	5.15	129.06	121.96
1	9v	60	GLY	C-N-CA	5.15	129.06	121.96
1	9A	7	GLN	CA-CB-CG	5.15	124.39	114.10
1	9R	50	GLN	CG-CD-OE1	5.15	131.09	120.80
1	9V	161	PHE	N-CA-C	5.15	117.56	111.33
1	10	158	LYS	N-CA-C	-5.15	106.24	112.88
1	ac	129	ILE	N-CA-CB	5.15	117.16	110.57
1	ak	117	TRP	CB-CG-CD2	5.15	134.00	126.80
1	ao	80	TRP	CA-C-N	5.15	127.43	120.38
1	ao	80	TRP	C-N-CA	5.15	127.43	120.38
1	aK	30	LYS	N-CA-C	5.15	120.20	113.30
1	aN	84	HIS	CA-CB-CG	-5.15	108.65	113.80
1	aP	19	THR	O-C-N	-5.15	116.53	122.09
1	aZ	154	ARG	O-C-N	-5.15	117.08	123.36
1	bq	156	GLY	O-C-N	-5.15	116.62	121.77
1	br	128	GLU	O-C-N	5.15	127.58	122.12
1	bI	121	ASN	CB-CA-C	5.15	117.00	110.16
1	bK	189	LEU	N-CA-CB	5.15	118.09	110.53
1	bN	2	ILE	O-C-N	-5.15	117.32	123.03
1	bZ	133	TRP	CB-CG-CD1	5.15	134.62	126.90
1	cm	12	HIS	CB-CG-CD2	-5.15	124.51	131.20
1	cp	199	LYS	O-C-N	-5.15	116.74	122.09
1	cq	8	GLY	CA-C-O	5.15	126.00	119.72
1	cK	30	LYS	N-CA-C	5.15	121.76	110.80
1	dd	57	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	dx	186	THR	CA-C-O	5.15	126.00	120.55
1	dy	5	ASN	OD1-CG-ND2	-5.15	117.45	122.60
1	dN	35	GLU	CA-C-N	5.15	127.73	120.42
1	dN	35	GLU	C-N-CA	5.15	127.73	120.42
1	dP	135	ILE	CA-C-N	5.15	127.17	120.28
1	dP	135	ILE	C-N-CA	5.15	127.17	120.28
1	e2	209	ALA	N-CA-CB	5.15	118.15	109.92
1	e6	68	MET	CA-C-N	5.15	127.13	120.44
1	e6	68	MET	C-N-CA	5.15	127.13	120.44
1	e6	210	THR	CA-C-O	-5.15	115.44	121.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ek	19	THR	N-CA-CB	5.15	117.78	110.16
1	eE	169	TYR	CB-CG-CD1	5.15	128.52	120.80
1	f2	134	ILE	CA-C-O	5.15	126.30	120.95
1	f7	48	THR	N-CA-CB	5.15	115.71	109.74
1	fv	84	HIS	ND1-CE1-NE2	5.15	113.55	108.40
1	fy	21	ASN	CB-CA-C	5.15	119.04	110.81
1	fQ	204	ALA	N-CA-CB	-5.15	102.55	110.16
1	e	117	TRP	CA-C-N	5.15	129.31	120.72
1	e	117	TRP	C-N-CA	5.15	129.31	120.72
1	m	144	MET	N-CA-C	5.15	117.79	111.82
1	u	67	GLN	CA-C-O	-5.15	115.09	120.55
1	B	34	PRO	CB-CA-C	-5.15	103.07	111.56
1	D	131	LYS	CA-C-N	5.15	127.17	120.28
1	D	131	LYS	C-N-CA	5.15	127.17	120.28
1	F	68	MET	CA-C-O	5.15	125.86	119.79
1	I	84	HIS	CE1-NE2-CD2	-5.15	103.85	109.00
1	gd	219	GLN	CG-CD-NE2	-5.14	108.68	116.40
1	gh	212	GLU	CA-C-N	5.14	128.13	120.31
1	gh	212	GLU	C-N-CA	5.14	128.13	120.31
1	gi	221	VAL	CA-C-O	-5.14	115.00	120.14
1	gB	154	ARG	NH1-CZ-NH2	5.14	125.99	119.30
1	gL	114	GLN	CA-C-N	5.14	127.51	120.46
1	gL	114	GLN	C-N-CA	5.14	127.51	120.46
1	gL	159	GLU	CB-CG-CD	5.14	121.35	112.60
1	gT	201	ILE	CA-C-O	5.14	126.30	120.85
1	h7	95	GLN	CA-C-N	5.14	128.41	121.05
1	h7	95	GLN	C-N-CA	5.14	128.41	121.05
1	h7	204	ALA	CA-C-N	5.14	131.61	121.58
1	h7	204	ALA	C-N-CA	5.14	131.61	121.58
1	hf	226	HIS	N-CA-CB	5.14	118.31	110.44
1	hv	211	LEU	N-CA-C	-5.14	106.51	112.89
1	hJ	164	TYR	CA-CB-CG	-5.14	104.64	113.90
1	hO	120	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	hX	214	MET	N-CA-C	5.14	117.28	111.11
1	hY	159	GLU	N-CA-C	5.14	118.58	109.58
1	hZ	211	LEU	CA-C-N	5.14	127.69	120.28
1	hZ	211	LEU	C-N-CA	5.14	127.69	120.28
1	hZ	211	LEU	N-CA-CB	-5.14	102.55	110.01
1	i5	200	THR	CA-CB-OG1	-5.14	101.89	109.60
1	ig	26	VAL	N-CA-CB	5.14	117.54	110.54
1	ig	120	HIS	O-C-N	-5.14	116.32	122.65
1	iy	117	TRP	N-CA-C	-5.14	105.56	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	212	GLU	CA-C-N	5.14	127.13	120.44
1	iz	212	GLU	C-N-CA	5.14	127.13	120.44
1	1R	61	GLY	O-C-N	5.14	129.39	122.70
1	iJ	50	GLN	O-C-N	-5.14	116.67	122.12
1	iL	203	LYS	CA-C-N	5.14	129.31	120.72
1	iL	203	LYS	C-N-CA	5.14	129.31	120.72
1	iR	144	MET	O-C-N	5.14	127.57	122.12
1	j8	182	LYS	N-CA-CB	5.14	117.78	110.16
1	jm	193	ASN	CB-CG-ND2	-5.14	108.68	116.40
1	jn	18	ARG	CA-C-O	-5.14	114.97	120.42
1	jo	208	ALA	N-CA-C	-5.14	106.25	112.88
1	jr	66	MET	N-CA-C	5.14	116.89	111.28
1	jv	40	PHE	CB-CA-C	5.14	118.96	110.88
1	jA	144	MET	CA-C-O	5.14	126.00	120.55
1	jF	133	TRP	CB-CG-CD1	5.14	134.62	126.90
1	jZ	27	VAL	N-CA-CB	5.14	116.57	110.55
1	1Z	225	GLY	N-CA-C	5.14	119.98	113.24
1	kc	44	SER	N-CA-C	5.14	119.25	112.92
1	kg	94	GLY	O-C-N	-5.14	116.11	122.23
1	kk	132	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	km	141	ILE	N-CA-CB	5.14	120.08	110.77
1	kt	119	THR	O-C-N	-5.14	115.91	122.34
1	kC	27	VAL	N-CA-C	5.14	115.87	110.62
1	kG	82	ARG	CA-C-N	5.14	128.13	120.31
1	kG	82	ARG	C-N-CA	5.14	128.13	120.31
1	kS	121	ASN	CB-CA-C	5.14	117.03	110.34
1	l5	229	ARG	CA-C-N	5.14	128.28	123.08
1	l5	229	ARG	C-N-CA	5.14	128.28	123.08
1	lb	62	HIS	CA-CB-CG	-5.14	108.66	113.80
1	li	63	GLN	N-CA-CB	-5.14	102.55	110.16
1	lr	102	SER	N-CA-CB	5.14	117.68	110.12
1	lt	165	VAL	O-C-N	5.14	126.93	121.89
1	lu	160	PRO	CA-C-O	-5.14	115.71	121.32
1	lw	131	LYS	CA-C-N	5.14	127.17	120.28
1	lw	131	LYS	C-N-CA	5.14	127.17	120.28
1	29	4	GLN	OE1-CD-NE2	5.14	127.74	122.60
1	lC	84	HIS	CA-C-N	5.14	125.15	119.90
1	lC	84	HIS	C-N-CA	5.14	125.15	119.90
1	lQ	226	HIS	O-C-N	-5.14	116.99	123.27
1	2j	159	GLU	CA-C-N	5.14	126.16	120.45
1	2j	159	GLU	C-N-CA	5.14	126.16	120.45
1	2D	224	PRO	N-CA-C	5.14	119.29	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2O	65	ALA	O-C-N	5.14	127.37	122.07
1	2P	145	TYR	N-CA-CB	-5.14	101.90	110.23
1	2T	164	TYR	CA-C-O	5.14	126.41	120.90
1	2W	67	GLN	N-CA-C	-5.14	105.85	111.82
1	3d	98	GLU	CB-CA-C	5.14	118.31	109.82
1	3k	23	TRP	CA-CB-CG	5.14	123.37	113.60
1	3l	81	ASP	CA-C-N	5.14	127.17	120.28
1	3l	81	ASP	C-N-CA	5.14	127.17	120.28
1	3n	16	SER	CA-C-O	-5.14	115.18	119.76
1	3p	203	LYS	CA-C-N	5.14	127.17	120.28
1	3p	203	LYS	C-N-CA	5.14	127.17	120.28
1	3r	125	PRO	N-CA-C	-5.14	104.85	112.26
1	3J	130	TYR	CA-C-O	5.14	126.00	120.55
1	3N	226	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	3Q	20	LEU	CA-C-N	5.14	127.17	120.28
1	3Q	20	LEU	C-N-CA	5.14	127.17	120.28
1	3T	28	GLU	N-CA-CB	5.14	118.47	109.72
1	3U	51	ASP	CA-C-O	5.14	126.41	120.90
1	43	37	ILE	CA-C-N	5.14	126.27	119.84
1	43	37	ILE	C-N-CA	5.14	126.27	119.84
1	45	173	ARG	O-C-N	5.14	128.02	122.15
1	4a	140	LYS	CB-CA-C	5.14	119.33	110.79
1	4f	4	GLN	CA-C-O	5.14	126.62	120.70
1	4r	230	VAL	O-C-N	-5.14	117.42	122.67
1	4u	98	GLU	N-CA-C	5.14	116.17	109.64
1	4w	132	ARG	N-CA-C	5.14	116.97	111.36
1	4I	166	ASP	CA-C-O	5.14	126.00	120.55
1	53	104	ILE	N-CA-C	5.14	119.24	112.04
1	59	36	VAL	N-CA-CB	5.14	117.54	110.54
1	5d	53	ASN	OD1-CG-ND2	-5.14	117.45	122.60
1	5q	66	MET	N-CA-C	5.14	116.97	111.36
1	5R	22	ALA	O-C-N	5.14	127.37	122.07
1	5U	139	ASN	CA-CB-CG	5.14	117.74	112.60
1	65	32	PHE	N-CA-C	5.14	118.58	112.72
1	6k	124	ILE	O-C-N	-5.14	117.45	121.46
1	6r	68	MET	N-CA-C	5.14	116.89	111.28
1	6u	40	PHE	CB-CA-C	-5.14	102.58	110.81
1	6z	184	TRP	CB-CG-CD2	-5.14	119.60	126.80
1	73	221	VAL	CA-C-N	5.14	131.49	121.41
1	73	221	VAL	C-N-CA	5.14	131.49	121.41
1	7l	162	ARG	CA-C-O	5.14	125.22	119.41
1	7m	3	VAL	CA-CB-CG1	-5.14	101.66	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7m	33	SER	CA-C-O	-5.14	114.98	120.23
1	7H	122	PRO	CA-C-N	5.14	125.08	119.78
1	7H	122	PRO	C-N-CA	5.14	125.08	119.78
1	7V	91	ILE	N-CA-C	5.14	120.04	109.34
1	7Y	120	HIS	CB-CG-CD2	5.14	137.89	131.20
1	7Y	207	PRO	CA-C-N	5.14	129.44	122.19
1	7Y	207	PRO	C-N-CA	5.14	129.44	122.19
1	7Z	22	ALA	N-CA-C	5.14	116.97	111.36
1	7Z	163	ASP	CA-C-O	5.14	126.00	120.55
1	80	132	ARG	CB-CG-CD	5.14	123.14	111.30
1	88	24	VAL	CA-C-O	-5.14	115.03	120.64
1	8j	74	ASN	OD1-CG-ND2	5.14	127.75	122.60
1	8q	130	TYR	O-C-N	5.14	128.01	122.15
1	8z	141	ILE	N-CA-CB	5.14	117.15	110.57
1	8D	92	GLU	N-CA-C	5.14	119.75	112.75
1	8F	214	MET	CA-C-O	5.14	125.89	119.97
1	8M	120	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	9d	120	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	9d	144	MET	CB-CA-C	-5.14	102.25	110.79
1	9e	67	GLN	CA-C-N	5.14	127.13	120.44
1	9e	67	GLN	C-N-CA	5.14	127.13	120.44
1	9i	112	GLN	CA-C-N	5.14	127.49	120.54
1	9i	112	GLN	C-N-CA	5.14	127.49	120.54
1	9i	206	GLY	CA-C-N	5.14	125.44	119.93
1	9i	206	GLY	C-N-CA	5.14	125.44	119.93
1	9j	181	VAL	O-C-N	-5.14	116.87	121.91
1	9v	21	ASN	CA-CB-CG	5.14	117.75	112.60
1	9w	167	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	9x	194	ALA	CA-C-N	5.14	128.47	120.60
1	9x	194	ALA	C-N-CA	5.14	128.47	120.60
1	Y	31	ALA	N-CA-CB	-5.14	101.80	110.49
1	Y	227	LYS	O-C-N	-5.14	117.15	122.96
1	a7	96	MET	CA-C-O	5.14	128.42	121.89
1	ai	188	THR	N-CA-C	5.14	116.70	111.14
1	al	170	LYS	N-CA-C	5.14	116.57	111.07
1	ao	114	GLN	CB-CG-CD	-5.14	103.86	112.60
1	ap	76	GLU	CB-CA-C	-5.14	100.79	110.67
1	az	143	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	aC	22	ALA	CA-C-N	5.14	127.17	120.28
1	aC	22	ALA	C-N-CA	5.14	127.17	120.28
1	aD	118	MET	O-C-N	-5.14	115.94	122.27
1	aF	185	MET	N-CA-C	5.14	116.89	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aM	140	LYS	N-CA-C	5.14	116.89	111.28
1	15	159	GLU	N-CA-CB	-5.14	101.21	110.37
1	b0	18	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	b0	67	GLN	N-CA-C	5.14	116.97	111.36
1	b4	122	PRO	CA-C-N	5.14	125.05	119.85
1	b4	122	PRO	C-N-CA	5.14	125.05	119.85
1	b5	80	TRP	O-C-N	-5.14	116.74	122.09
1	b8	4	GLN	N-CA-C	5.14	118.72	111.52
1	bd	87	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	bp	158	LYS	CG-CD-CE	5.14	123.13	111.30
1	bE	105	ALA	CA-C-N	5.14	129.33	121.51
1	bE	105	ALA	C-N-CA	5.14	129.33	121.51
1	bL	156	GLY	CA-C-N	5.14	124.76	119.05
1	bL	156	GLY	C-N-CA	5.14	124.76	119.05
1	bO	117	TRP	N-CA-C	5.14	117.79	111.82
1	c2	16	SER	O-C-N	-5.14	115.11	121.64
1	c3	62	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	c4	63	GLN	CG-CD-NE2	5.14	124.12	116.40
1	c9	216	THR	CA-CB-OG1	5.14	117.32	109.60
1	cc	84	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	cd	6	LEU	O-C-N	-5.14	113.61	122.20
1	1d	168	PHE	CA-C-O	5.14	126.00	120.70
1	ch	110	THR	CA-C-N	5.14	127.48	120.54
1	ch	110	THR	C-N-CA	5.14	127.48	120.54
1	cq	110	THR	N-CA-CB	5.14	117.53	109.97
1	cz	39	MET	CA-C-N	5.14	127.49	120.54
1	cz	39	MET	C-N-CA	5.14	127.49	120.54
1	1f	126	VAL	CA-CB-CG2	5.14	119.15	110.40
1	1h	74	ASN	CA-CB-CG	5.14	117.74	112.60
1	dc	18	ARG	N-CA-C	5.14	117.28	111.11
1	dc	124	ILE	O-C-N	-5.14	116.02	120.96
1	dc	179	GLN	N-CA-C	5.14	119.86	111.37
1	dh	129	ILE	CB-CA-C	5.14	118.55	111.97
1	dn	105	ALA	CB-CA-C	5.14	119.27	110.01
1	ds	77	ALA	CA-C-N	5.14	127.17	120.28
1	ds	77	ALA	C-N-CA	5.14	127.17	120.28
1	dt	204	ALA	CA-C-O	5.14	125.89	119.97
1	dv	122	PRO	N-CA-CB	5.14	108.26	102.60
1	dw	9	GLN	N-CA-CB	5.14	118.85	110.77
1	dx	173	ARG	NH1-CZ-NH2	-5.14	112.61	119.30
1	dx	178	SER	N-CA-C	5.14	121.76	110.80
1	1l	120	HIS	CG-CD2-NE2	5.14	112.34	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dz	142	VAL	CA-C-N	5.14	127.13	120.44
1	dz	142	VAL	C-N-CA	5.14	127.13	120.44
1	dB	194	ALA	O-C-N	-5.14	116.61	122.68
1	dK	84	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	e1	188	THR	CA-CB-OG1	-5.14	101.88	109.60
1	e2	95	GLN	CB-CA-C	5.14	117.57	110.16
1	eb	175	GLU	O-C-N	-5.14	116.61	122.89
1	ed	49	PRO	CA-C-N	5.14	127.48	120.54
1	ed	49	PRO	C-N-CA	5.14	127.48	120.54
1	ej	9	GLN	CB-CG-CD	5.14	121.34	112.60
1	ej	87	HIS	N-CA-C	5.14	118.85	112.47
1	eq	150	ILE	N-CA-C	5.14	117.48	111.05
1	er	16	SER	CA-CB-OG	5.14	121.39	111.10
1	er	202	LEU	CB-CA-C	5.14	119.33	110.79
1	et	95	GLN	N-CA-C	5.14	118.49	111.39
1	eN	132	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	eO	5	ASN	CA-CB-CG	5.14	117.74	112.60
1	eT	227	LYS	O-C-N	5.14	127.57	122.12
1	eU	190	LEU	N-CA-C	5.14	117.55	111.33
1	eZ	165	VAL	CA-C-N	5.14	127.13	120.44
1	eZ	165	VAL	C-N-CA	5.14	127.13	120.44
1	f1	128	GLU	O-C-N	-5.14	116.53	122.09
1	fd	179	GLN	N-CA-C	5.14	116.89	111.28
1	fi	192	GLN	OE1-CD-NE2	-5.14	117.45	122.60
1	fl	81	ASP	CA-C-N	5.14	127.17	120.28
1	fl	81	ASP	C-N-CA	5.14	127.17	120.28
1	fr	154	ARG	CA-C-O	-5.14	115.23	120.89
1	ft	136	LEU	CA-C-N	5.14	125.65	119.94
1	ft	136	LEU	C-N-CA	5.14	125.65	119.94
1	fE	71	GLU	CA-C-N	5.14	127.49	120.54
1	fE	71	GLU	C-N-CA	5.14	127.49	120.54
1	fO	20	LEU	CA-C-N	5.14	127.44	120.44
1	fO	20	LEU	C-N-CA	5.14	127.44	120.44
1	fO	146	SER	CA-C-O	-5.14	114.86	119.59
1	fV	177	ALA	O-C-N	-5.14	116.48	122.81
1	g7	179	GLN	N-CA-C	5.14	117.28	111.11
1	d	170	LYS	CA-C-N	5.14	127.17	120.28
1	d	170	LYS	C-N-CA	5.14	127.17	120.28
1	g	14	ALA	N-CA-CB	-5.14	102.48	110.04
1	1	183	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	l	75	GLU	N-CA-C	5.14	116.97	111.36
1	s	133	TRP	CB-CG-CD2	-5.14	119.60	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	u	110	THR	CA-CB-OG1	5.14	117.32	109.60
1	v	78	ALA	O-C-N	5.14	127.57	122.12
1	D	33	SER	CA-C-N	5.14	126.27	119.84
1	D	33	SER	C-N-CA	5.14	126.27	119.84
1	E	25	LYS	CA-C-O	-5.14	114.29	120.10
1	I	229	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	gd	55	MET	CA-C-O	5.14	126.22	120.82
1	gm	10	MET	N-CA-C	5.14	119.50	113.23
1	gm	33	SER	O-C-N	-5.14	115.32	121.39
1	go	92	GLU	O-C-N	-5.14	115.11	121.64
1	gx	217	ALA	CA-C-N	5.14	131.36	121.54
1	gx	217	ALA	C-N-CA	5.14	131.36	121.54
1	gA	195	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	gD	100	ARG	N-CA-CB	5.14	117.80	110.44
1	gW	202	LEU	N-CA-C	5.14	117.79	111.82
1	h8	27	VAL	O-C-N	-5.14	116.14	122.57
1	hg	170	LYS	CA-C-N	5.14	127.59	120.29
1	hg	170	LYS	C-N-CA	5.14	127.59	120.29
1	hh	52	LEU	O-C-N	-5.14	116.67	122.12
1	hy	107	THR	N-CA-CB	5.14	117.47	110.01
1	hz	173	ARG	CD-NE-CZ	5.14	131.60	124.40
1	hB	84	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	hG	12	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	hJ	55	MET	N-CA-C	5.14	117.30	111.02
1	hK	163	ASP	O-C-N	-5.14	116.67	122.12
1	hO	150	ILE	N-CA-C	5.14	120.04	109.34
1	hR	176	GLN	N-CA-C	-5.14	106.85	113.23
1	hU	219	GLN	N-CA-C	5.14	116.97	111.36
1	hZ	148	THR	CA-CB-OG1	5.14	117.31	109.60
1	ig	57	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	ig	62	HIS	CA-CB-CG	-5.14	108.66	113.80
1	ih	33	SER	CA-C-N	5.14	124.86	119.82
1	ih	33	SER	C-N-CA	5.14	124.86	119.82
1	ix	37	ILE	CA-C-N	-5.14	113.74	119.19
1	ix	37	ILE	C-N-CA	-5.14	113.74	119.19
1	iB	96	MET	CA-C-O	-5.14	115.53	121.19
1	1R	160	PRO	N-CA-CB	5.14	108.65	103.25
1	iP	56	LEU	CA-C-O	5.14	126.00	120.55
1	iU	192	GLN	OE1-CD-NE2	5.14	127.74	122.60
1	jb	221	VAL	N-CA-C	5.14	115.86	110.62
1	jf	84	HIS	CB-CA-C	5.14	115.81	108.76
1	jl	7	GLN	CG-CD-NE2	5.14	124.11	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1W	143	ARG	N-CA-C	-5.14	105.36	111.69
1	jw	227	LYS	CA-C-O	-5.14	115.53	121.19
1	jG	17	PRO	CA-C-N	5.14	127.59	120.29
1	jG	17	PRO	C-N-CA	5.14	127.59	120.29
1	jP	20	LEU	O-C-N	-5.14	116.74	122.09
1	jP	170	LYS	CA-C-N	5.14	128.53	120.82
1	jP	170	LYS	C-N-CA	5.14	128.53	120.82
1	jU	189	LEU	N-CA-C	5.14	116.57	111.07
1	jW	154	ARG	CA-C-O	5.14	127.55	121.58
1	jX	53	ASN	CB-CG-OD1	5.14	131.09	120.80
1	jZ	40	PHE	N-CA-CB	5.14	117.68	110.12
1	1Z	29	GLU	CB-CG-CD	5.14	121.34	112.60
1	k4	31	ALA	N-CA-C	5.14	118.78	109.32
1	k7	18	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	ki	52	LEU	CA-C-O	5.14	126.00	120.55
1	kk	214	MET	N-CA-C	5.14	118.33	111.75
1	22	173	ARG	O-C-N	-5.14	115.70	122.39
1	kw	90	PRO	N-CA-C	5.14	123.06	112.47
1	kz	138	LEU	CA-C-O	5.14	126.18	120.63
1	kR	170	LYS	N-CA-C	5.14	116.89	111.28
1	kV	175	GLU	N-CA-C	5.14	117.69	110.23
1	lg	36	VAL	N-CA-C	5.14	117.48	111.05
1	li	154	ARG	N-CA-C	-5.14	101.25	109.07
1	lq	120	HIS	O-C-N	-5.14	116.93	122.79
1	lq	157	PRO	N-CA-C	5.14	123.06	112.47
1	ly	84	HIS	N-CA-C	5.14	118.45	107.91
1	lN	174	ALA	CB-CA-C	-5.14	101.04	109.99
1	lN	199	LYS	N-CA-C	5.14	116.89	111.28
1	lP	202	LEU	CB-CA-C	5.14	119.59	110.85
1	2g	135	ILE	N-CA-C	5.14	115.36	110.53
1	2i	37	ILE	CA-C-O	5.14	122.14	118.69
1	2i	199	LYS	CA-C-N	5.14	127.12	120.44
1	2i	199	LYS	C-N-CA	5.14	127.12	120.44
1	2n	19	THR	N-CA-C	5.14	116.89	111.28
1	2p	110	THR	CA-C-O	-5.14	115.74	121.81
1	2x	163	ASP	CA-C-O	5.14	125.87	120.42
1	2F	86	VAL	CA-CB-CG1	5.14	119.14	110.40
1	2G	77	ALA	O-C-N	-5.14	116.77	122.07
1	2P	226	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	2X	158	LYS	N-CA-C	-5.14	106.97	114.12
1	2X	167	ARG	CD-NE-CZ	5.14	131.60	124.40
1	2Z	193	ASN	OD1-CG-ND2	5.14	127.74	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	35	67	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	3f	182	LYS	CB-CA-C	5.14	120.14	110.63
1	3i	31	ALA	O-C-N	-5.14	115.75	122.59
1	3x	169	TYR	N-CA-C	5.14	116.89	111.28
1	3B	74	ASN	CA-C-N	5.14	127.13	120.44
1	3B	74	ASN	C-N-CA	5.14	127.13	120.44
1	3G	121	ASN	CA-C-O	-5.14	113.06	119.54
1	3J	66	MET	CG-SD-CE	5.14	112.21	100.90
1	3K	27	VAL	N-CA-C	5.14	115.86	110.62
1	3L	190	LEU	N-CA-C	5.14	116.69	111.14
1	3R	166	ASP	N-CA-CB	-5.14	102.55	110.01
1	4g	44	SER	N-CA-CB	5.14	118.93	110.39
1	4h	37	ILE	O-C-N	-5.14	115.24	121.10
1	4l	201	ILE	O-C-N	5.14	127.13	121.83
1	4q	18	ARG	CA-C-N	5.14	127.43	120.44
1	4q	18	ARG	C-N-CA	5.14	127.43	120.44
1	4r	180	GLU	CA-C-O	5.14	126.19	120.63
1	4D	91	ILE	CA-CB-CG1	5.14	119.14	110.40
1	4E	132	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	4K	12	HIS	CA-C-N	5.14	130.25	123.05
1	4K	12	HIS	C-N-CA	5.14	130.25	123.05
1	4L	115	ILE	CA-C-N	5.14	125.65	119.94
1	4L	115	ILE	C-N-CA	5.14	125.65	119.94
1	4S	97	ARG	CA-C-N	5.14	134.35	121.80
1	4S	97	ARG	C-N-CA	5.14	134.35	121.80
1	57	183	ASN	CA-C-N	5.14	127.17	120.28
1	57	183	ASN	C-N-CA	5.14	127.17	120.28
1	5i	12	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	5r	162	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	5G	55	MET	CA-C-O	5.14	126.22	120.82
1	5L	90	PRO	N-CD-CG	5.14	110.91	103.20
1	5N	73	ILE	CA-C-N	5.14	127.17	120.28
1	5N	73	ILE	C-N-CA	5.14	127.17	120.28
1	5S	178	SER	CA-C-N	5.14	131.36	121.54
1	5S	178	SER	C-N-CA	5.14	131.36	121.54
1	5X	62	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	61	113	GLU	CA-C-N	5.14	127.17	120.28
1	61	113	GLU	C-N-CA	5.14	127.17	120.28
1	63	12	HIS	O-C-N	-5.14	117.36	123.22
1	68	16	SER	O-C-N	-5.14	117.46	121.47
1	6k	18	ARG	O-C-N	5.14	127.57	122.12
1	6k	112	GLN	N-CA-C	5.14	118.81	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6s	112	GLN	OE1-CD-NE2	5.14	127.74	122.60
1	6t	48	THR	CA-CB-OG1	5.14	117.31	109.60
1	6t	130	TYR	N-CA-C	5.14	117.78	111.82
1	6z	84	HIS	CA-C-N	5.14	126.27	119.84
1	6z	84	HIS	C-N-CA	5.14	126.27	119.84
1	6E	51	ASP	CA-CB-CG	5.14	117.74	112.60
1	6M	119	THR	CA-C-O	5.14	126.17	119.95
1	6U	37	ILE	CA-C-N	5.14	124.45	118.85
1	6U	37	ILE	C-N-CA	5.14	124.45	118.85
1	6Z	217	ALA	N-CA-C	5.14	117.49	110.55
1	7g	53	ASN	CA-C-O	-5.14	115.10	120.55
1	7t	56	LEU	O-C-N	-5.14	116.67	122.12
1	7U	43	LEU	O-C-N	-5.14	115.44	122.33
1	7V	124	ILE	CA-C-O	-5.14	115.56	119.98
1	7X	200	THR	O-C-N	-5.14	116.67	122.12
1	83	33	SER	CA-C-O	-5.14	114.82	120.17
1	88	226	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	8e	89	GLY	CA-C-N	5.14	126.27	119.84
1	8e	89	GLY	C-N-CA	5.14	126.27	119.84
1	8i	68	MET	O-C-N	-5.14	116.67	122.12
1	8o	95	GLN	OE1-CD-NE2	5.14	127.74	122.60
1	8y	112	GLN	CB-CG-CD	5.14	121.34	112.60
1	8C	42	ALA	O-C-N	-5.14	115.94	122.27
1	8Q	30	LYS	N-CA-CB	5.14	119.18	110.49
1	8R	93	PRO	CB-CA-C	5.14	117.97	111.39
1	8S	226	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	8V	61	GLY	O-C-N	-5.14	117.75	122.79
1	94	79	GLU	N-CA-C	5.14	117.62	111.71
1	97	58	THR	CA-CB-CG2	5.14	119.24	110.50
1	9b	153	ILE	N-CA-CB	5.14	116.14	110.53
1	9e	21	ASN	CA-CB-CG	5.14	117.74	112.60
1	9g	168	PHE	N-CA-C	-5.14	105.36	111.69
1	9l	190	LEU	N-CA-C	5.14	116.89	111.28
1	9u	123	PRO	O-C-N	-5.14	116.65	123.13
1	9H	164	TYR	CA-CB-CG	-5.14	104.64	113.90
1	9I	68	MET	CG-SD-CE	-5.14	89.59	100.90
1	9Q	226	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	a0	34	PRO	CA-C-N	5.14	127.89	120.38
1	a0	34	PRO	C-N-CA	5.14	127.89	120.38
1	a1	120	HIS	CA-CB-CG	5.14	118.94	113.80
1	a2	68	MET	N-CA-C	5.14	117.28	111.11
1	a5	63	GLN	CA-C-O	5.14	125.91	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aa	212	GLU	CA-C-N	5.14	127.13	120.44
1	aa	212	GLU	C-N-CA	5.14	127.13	120.44
1	al	74	ASN	CA-C-O	-5.14	115.10	120.55
1	as	99	PRO	CB-CA-C	5.14	118.05	111.21
1	at	54	THR	CA-C-O	-5.14	115.10	120.55
1	at	194	ALA	CA-C-N	5.14	128.47	120.60
1	at	194	ALA	C-N-CA	5.14	128.47	120.60
1	aw	224	PRO	O-C-N	5.14	129.21	122.27
1	az	62	HIS	CA-CB-CG	5.14	118.94	113.80
1	aR	139	ASN	CA-C-O	5.14	125.91	120.10
1	aU	115	ILE	CB-CA-C	5.14	119.08	112.14
1	aW	103	ASP	CA-C-N	5.14	128.60	120.47
1	aW	103	ASP	C-N-CA	5.14	128.60	120.47
1	aY	66	MET	CA-C-O	-5.14	115.10	120.55
1	b6	127	GLY	O-C-N	-5.14	117.04	122.13
1	bi	64	ALA	N-CA-C	-5.14	105.30	112.45
1	bi	162	ARG	N-CA-C	5.14	117.55	111.33
1	bj	111	LEU	O-C-N	-5.14	116.20	122.11
1	bq	85	PRO	N-CA-C	5.14	119.28	111.15
1	bu	76	GLU	O-C-N	-5.14	115.94	122.27
1	bB	42	ALA	CA-C-O	5.14	126.00	120.55
1	bY	210	THR	CA-C-O	-5.14	115.90	121.87
1	cb	5	ASN	N-CA-C	-5.14	101.02	109.40
1	ce	126	VAL	N-CA-C	5.14	116.48	110.62
1	ck	148	THR	CA-C-O	5.14	127.79	121.72
1	cs	168	PHE	CB-CG-CD1	-5.14	111.96	120.70
1	cF	200	THR	N-CA-C	5.14	119.86	111.37
1	cK	190	LEU	N-CA-C	5.14	116.57	111.07
1	cO	36	VAL	O-C-N	-5.14	116.41	122.07
1	d1	36	VAL	CA-CB-CG1	5.14	119.14	110.40
1	d8	28	GLU	O-C-N	-5.14	116.53	122.09
1	dc	25	LYS	O-C-N	5.14	127.57	122.12
1	dq	97	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	dC	55	MET	N-CA-C	-5.14	105.67	111.28
1	dE	170	LYS	N-CA-CB	5.14	117.68	110.12
1	dH	76	GLU	O-C-N	-5.14	114.92	122.43
1	dK	78	ALA	CA-C-O	5.14	125.87	120.42
1	dO	18	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	e1	6	LEU	CA-C-O	-5.14	115.50	121.26
1	ev	169	TYR	CA-C-O	5.14	126.22	120.82
1	ew	153	ILE	CA-C-O	5.14	127.02	120.75
1	ey	73	ILE	O-C-N	-5.14	116.71	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eF	137	GLY	O-C-N	-5.14	116.43	122.34
1	eQ	38	PRO	CA-C-N	5.14	127.12	120.44
1	eQ	38	PRO	C-N-CA	5.14	127.12	120.44
1	eW	71	GLU	CA-C-O	5.14	125.69	119.31
1	eX	40	PHE	N-CA-C	5.14	116.89	111.28
1	fg	113	GLU	N-CA-CB	5.14	117.77	110.16
1	fs	87	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	fv	41	SER	CA-C-N	5.14	127.69	120.28
1	fv	41	SER	C-N-CA	5.14	127.69	120.28
1	fx	170	LYS	O-C-N	-5.14	116.67	122.12
1	fA	5	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	fG	181	VAL	N-CA-C	-5.14	105.39	111.00
1	fQ	75	GLU	CA-C-N	5.14	127.44	120.65
1	fQ	75	GLU	C-N-CA	5.14	127.44	120.65
1	g7	211	LEU	CB-CA-C	-5.14	101.12	110.63
1	h	51	ASP	CA-C-O	5.14	126.22	120.82
1	h	89	GLY	CA-C-O	-5.14	114.17	121.52
1	l	152	ASP	CB-CA-C	-5.14	104.77	111.40
1	x	195	ASN	CB-CG-OD1	5.14	131.08	120.80
1	G	57	ASN	CB-CG-ND2	-5.14	108.69	116.40
1	I	63	GLN	N-CA-C	5.14	116.57	111.07
1	P	133	TRP	CB-CG-CD2	-5.14	119.60	126.80
1	8	62	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	g8	97	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	gg	226	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	gS	80	TRP	CA-CB-CG	5.14	123.37	113.60
1	1G	84	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	1K	95	GLN	CG-CD-NE2	5.14	124.11	116.40
1	hT	105	ALA	N-CA-C	5.14	119.42	113.20
1	i1	87	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	ih	93	PRO	N-CD-CG	5.14	110.91	103.20
1	ir	219	GLN	CG-CD-NE2	5.14	124.11	116.40
1	iE	122	PRO	N-CD-CG	5.14	109.97	103.80
1	iU	11	VAL	O-C-N	-5.14	117.49	122.99
1	j3	81	ASP	N-CA-C	5.14	116.88	111.28
1	ja	112	GLN	N-CA-C	5.14	116.88	111.28
1	jf	79	GLU	CA-C-N	5.14	127.12	120.44
1	jf	79	GLU	C-N-CA	5.14	127.12	120.44
1	jl	112	GLN	CA-CB-CG	-5.14	103.82	114.10
1	jn	211	LEU	O-C-N	-5.14	116.67	122.12
1	jr	108	THR	N-CA-CB	5.14	119.41	111.39
1	jV	197	ASP	O-C-N	-5.14	116.29	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jW	123	PRO	CA-C-O	-5.14	115.48	121.34
1	k8	159	GLU	CA-C-N	5.14	126.27	119.84
1	k8	159	GLU	C-N-CA	5.14	126.27	119.84
1	k9	7	GLN	CB-CG-CD	-5.14	103.86	112.60
1	kl	173	ARG	N-CA-C	5.14	118.01	111.69
1	22	27	VAL	N-CA-CB	5.14	118.29	110.58
1	kF	26	VAL	CB-CA-C	5.14	119.08	112.14
1	l8	146	SER	N-CA-C	5.14	117.75	110.24
1	le	15	ILE	N-CA-C	5.14	116.31	109.37
1	lh	46	GLY	CA-C-N	5.14	128.15	120.95
1	lh	46	GLY	C-N-CA	5.14	128.15	120.95
1	lj	55	MET	N-CA-C	5.14	116.57	111.07
1	ll	15	ILE	N-CA-C	5.14	117.03	109.63
1	lA	164	TYR	N-CA-CB	-5.14	102.55	110.16
1	2u	66	MET	CG-SD-CE	-5.14	89.59	100.90
1	2M	218	CYS	O-C-N	5.14	129.26	122.47
1	2X	100	ARG	N-CA-CB	-5.14	103.34	111.05
1	3j	179	GLN	N-CA-C	5.14	116.88	111.28
1	3p	52	LEU	CA-C-O	-5.14	115.42	120.82
1	3t	194	ALA	CA-C-O	5.14	127.86	120.51
1	3u	172	LEU	CA-C-N	5.14	127.42	120.38
1	3u	172	LEU	C-N-CA	5.14	127.42	120.38
1	3v	156	GLY	CA-C-O	-5.14	117.08	122.38
1	4e	47	ALA	O-C-N	-5.14	117.22	123.13
1	4k	195	ASN	CB-CG-ND2	5.14	124.11	116.40
1	4O	116	GLY	CA-C-N	5.14	127.43	120.44
1	4O	116	GLY	C-N-CA	5.14	127.43	120.44
1	4R	113	GLU	N-CA-C	5.14	117.78	111.82
1	5a	37	ILE	CA-C-N	5.14	124.45	118.85
1	5a	37	ILE	C-N-CA	5.14	124.45	118.85
1	5u	189	LEU	CA-C-N	5.14	127.42	120.38
1	5u	189	LEU	C-N-CA	5.14	127.42	120.38
1	5w	173	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	5J	25	LYS	O-C-N	5.14	127.44	122.09
1	5W	79	GLU	CA-C-N	5.14	128.12	120.31
1	5W	79	GLU	C-N-CA	5.14	128.12	120.31
1	6c	226	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	6m	16	SER	CA-C-O	-5.14	115.50	119.46
1	6p	142	VAL	CB-CA-C	5.14	118.28	111.70
1	6K	154	ARG	CG-CD-NE	-5.14	100.69	112.00
1	6M	155	GLN	N-CA-C	5.14	117.92	110.42
1	7G	97	ARG	N-CA-CB	5.14	120.25	111.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7V	114	GLN	CA-C-N	5.14	128.73	120.30
1	7V	114	GLN	C-N-CA	5.14	128.73	120.30
1	8k	207	PRO	N-CA-C	5.14	119.64	111.26
1	8D	117	TRP	N-CA-C	5.14	116.88	111.28
1	8H	102	SER	CB-CA-C	-5.14	102.26	110.79
1	9n	98	GLU	CA-C-N	-5.14	113.41	119.84
1	9n	98	GLU	C-N-CA	-5.14	113.41	119.84
1	9A	218	CYS	N-CA-C	5.14	121.75	110.80
1	9H	72	THR	OG1-CB-CG2	-5.14	99.02	109.30
1	9N	82	ARG	NH1-CZ-NH2	-5.14	112.62	119.30
1	Y	228	ALA	CA-C-N	5.14	130.24	122.68
1	Y	228	ALA	C-N-CA	5.14	130.24	122.68
1	9Z	229	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	aS	195	ASN	CB-CG-ND2	5.14	124.11	116.40
1	aY	51	ASP	CA-C-N	5.14	127.17	120.28
1	aY	51	ASP	C-N-CA	5.14	127.17	120.28
1	b3	62	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	c0	144	MET	CG-SD-CE	-5.14	89.59	100.90
1	c3	224	PRO	CB-CA-C	5.14	118.09	111.56
1	ca	41	SER	O-C-N	-5.14	116.78	122.07
1	cv	29	GLU	CG-CD-OE1	5.14	130.22	118.40
1	cA	73	ILE	N-CA-CB	5.14	116.02	110.62
1	cU	117	TRP	CB-CG-CD1	-5.14	119.19	126.90
1	cW	184	TRP	CA-C-N	5.14	127.17	120.28
1	cW	184	TRP	C-N-CA	5.14	127.17	120.28
1	cX	185	MET	CA-C-N	5.14	127.12	120.44
1	cX	185	MET	C-N-CA	5.14	127.12	120.44
1	de	160	PRO	N-CA-C	5.14	119.16	111.14
1	1k	74	ASN	CA-C-N	5.14	127.17	120.28
1	1k	74	ASN	C-N-CA	5.14	127.17	120.28
1	dC	133	TRP	CA-C-O	-5.14	115.10	120.55
1	dJ	133	TRP	CB-CG-CD2	-5.14	119.60	126.80
1	dM	101	GLY	N-CA-C	5.14	120.11	113.27
1	dX	64	ALA	CB-CA-C	-5.14	102.26	110.79
1	e1	179	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	e8	195	ASN	CA-CB-CG	5.14	117.74	112.60
1	eo	120	HIS	N-CA-CB	5.14	117.61	110.26
1	eu	167	ARG	N-CA-CB	-5.14	102.38	110.30
1	eH	86	VAL	CA-C-N	5.14	128.15	120.90
1	eH	86	VAL	C-N-CA	5.14	128.15	120.90
1	eL	157	PRO	CA-C-N	5.14	130.62	122.60
1	eL	157	PRO	C-N-CA	5.14	130.62	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eX	170	LYS	CA-C-N	5.14	127.59	120.29
1	eX	170	LYS	C-N-CA	5.14	127.59	120.29
1	eY	186	THR	N-CA-CB	-5.14	102.55	110.16
1	f3	163	ASP	CA-C-N	5.14	127.12	120.44
1	f3	163	ASP	C-N-CA	5.14	127.12	120.44
1	f5	137	GLY	CA-C-N	5.14	127.12	120.44
1	f5	137	GLY	C-N-CA	5.14	127.12	120.44
1	f5	224	PRO	O-C-N	-5.14	116.58	122.85
1	fo	143	ARG	N-CA-C	5.14	116.57	111.07
1	fp	120	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	fK	62	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	fO	9	GLN	N-CA-C	5.14	117.75	110.50
1	fS	189	LEU	O-C-N	5.14	127.57	122.12
1	fU	71	GLU	N-CA-CB	-5.14	102.31	110.28
1	fU	76	GLU	CA-C-O	-5.14	115.42	120.82
1	a	132	ARG	CA-CB-CG	5.14	124.38	114.10
1	u	66	MET	O-C-N	-5.14	116.67	122.12
1	I	64	ALA	N-CA-C	5.14	117.55	111.33
1	I	184	TRP	CB-CG-CD2	5.14	134.00	126.80
1	V	226	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	1C	15	ILE	CA-C-O	5.14	127.01	121.36
1	gi	32	PHE	CA-C-O	5.14	125.57	119.56
1	gi	227	LYS	N-CA-CB	5.14	118.06	110.56
1	gj	216	THR	N-CA-CB	5.14	118.20	110.65
1	gk	82	ARG	CB-CA-C	5.14	119.32	110.79
1	gn	20	LEU	N-CA-C	5.14	116.57	111.07
1	gI	213	GLU	CA-C-N	5.14	127.12	120.44
1	gI	213	GLU	C-N-CA	5.14	127.12	120.44
1	gJ	119	THR	CA-C-O	5.14	126.02	119.95
1	gK	73	ILE	CA-CB-CG1	5.14	119.14	110.40
1	gM	172	LEU	N-CA-C	5.14	116.88	111.28
1	gP	222	GLY	CA-C-N	5.14	129.94	121.87
1	gP	222	GLY	C-N-CA	5.14	129.94	121.87
1	gR	190	LEU	N-CA-C	5.14	116.57	111.07
1	gV	5	ASN	N-CA-C	5.14	116.96	110.33
1	h7	192	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	hb	210	THR	O-C-N	-5.14	116.99	122.85
1	hj	161	PHE	CA-CB-CG	-5.14	108.66	113.80
1	1J	164	TYR	CA-C-N	5.14	127.72	120.42
1	1J	164	TYR	C-N-CA	5.14	127.72	120.42
1	hs	91	ILE	N-CA-C	-5.14	108.11	113.10
1	hx	177	ALA	N-CA-C	5.14	118.13	110.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hz	18	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	hC	130	TYR	CA-C-N	5.14	127.42	120.38
1	hC	130	TYR	C-N-CA	5.14	127.42	120.38
1	hL	19	THR	O-C-N	-5.14	116.29	122.15
1	hM	84	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	hP	161	PHE	CA-C-O	5.14	126.22	120.82
1	1N	73	ILE	CB-CA-C	-5.14	105.12	111.70
1	i4	84	HIS	CA-CB-CG	-5.14	108.66	113.80
1	1P	170	LYS	N-CA-C	5.14	116.88	111.28
1	io	23	TRP	CH2-CZ2-CE2	5.14	124.18	117.50
1	iw	132	ARG	N-CA-C	5.14	116.88	111.28
1	ix	95	GLN	N-CA-C	5.14	117.34	110.35
1	ix	173	ARG	N-CA-C	5.14	116.88	111.28
1	iA	144	MET	N-CA-C	5.14	117.28	111.11
1	iB	102	SER	N-CA-C	5.14	116.88	111.28
1	iL	125	PRO	CA-C-O	-5.14	115.70	121.97
1	iM	53	ASN	O-C-N	-5.14	116.67	122.12
1	iT	90	PRO	CB-CA-C	5.14	117.68	111.46
1	iY	44	SER	O-C-N	-5.14	115.92	122.34
1	jb	103	ASP	CA-C-N	5.14	127.50	120.46
1	jb	103	ASP	C-N-CA	5.14	127.50	120.46
1	je	74	ASN	CA-C-N	5.14	127.62	120.63
1	je	74	ASN	C-N-CA	5.14	127.62	120.63
1	jk	176	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	jl	192	GLN	N-CA-C	5.14	117.62	111.71
1	jr	60	GLY	CA-C-N	5.14	128.89	121.54
1	jr	60	GLY	C-N-CA	5.14	128.89	121.54
1	jz	98	GLU	CB-CA-C	5.14	121.19	110.50
1	jA	87	HIS	CA-C-N	5.14	128.15	120.95
1	jA	87	HIS	C-N-CA	5.14	128.15	120.95
1	jA	146	SER	O-C-N	-5.14	116.72	121.30
1	jE	144	MET	N-CA-C	5.14	116.69	111.14
1	jX	8	GLY	CA-C-O	5.14	125.89	121.88
1	jZ	143	ARG	CB-CA-C	5.14	118.92	110.95
1	kb	185	MET	N-CA-C	5.14	117.28	111.11
1	kj	159	GLU	O-C-N	-5.14	116.14	121.28
1	km	113	GLU	CA-C-N	5.14	127.12	120.44
1	km	113	GLU	C-N-CA	5.14	127.12	120.44
1	kp	194	ALA	N-CA-C	5.14	117.68	110.23
1	kq	20	LEU	N-CA-C	-5.14	105.68	111.28
1	22	167	ARG	CA-C-N	5.14	127.93	120.79
1	22	167	ARG	C-N-CA	5.14	127.93	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	66	MET	CA-C-O	-5.14	115.10	120.55
1	kD	174	ALA	O-C-N	-5.14	115.94	121.95
1	kL	192	GLN	N-CA-C	5.14	116.57	111.07
1	kQ	52	LEU	N-CA-C	5.14	116.88	111.28
1	25	199	LYS	CA-C-N	5.14	127.17	120.28
1	25	199	LYS	C-N-CA	5.14	127.17	120.28
1	25	202	LEU	O-C-N	5.14	127.57	122.12
1	kZ	87	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	l1	23	TRP	N-CA-C	5.14	116.57	111.07
1	l4	207	PRO	O-C-N	-5.14	115.31	122.30
1	l7	139	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	le	61	GLY	O-C-N	-5.14	116.06	122.84
1	lh	87	HIS	ND1-CG-CD2	-5.14	100.96	106.10
1	lu	1	PRO	CA-C-N	5.14	128.75	121.66
1	lu	1	PRO	C-N-CA	5.14	128.75	121.66
1	lw	28	GLU	CB-CA-C	-5.14	102.11	110.85
1	29	33	SER	N-CA-C	5.14	114.05	108.14
1	lE	48	THR	CA-CB-OG1	5.14	117.31	109.60
1	lI	62	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	lQ	52	LEU	CA-C-N	5.14	127.68	120.28
1	lQ	52	LEU	C-N-CA	5.14	127.68	120.28
1	2d	17	PRO	N-CA-CB	-5.14	97.68	103.33
1	2e	186	THR	O-C-N	-5.14	116.54	122.09
1	2w	207	PRO	CB-CA-C	5.14	118.80	111.04
1	2B	120	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	2D	110	THR	N-CA-C	-5.14	101.26	109.23
1	2H	116	GLY	N-CA-C	-5.14	106.15	113.86
1	2M	230	VAL	CA-C-N	5.14	130.95	121.70
1	2M	230	VAL	C-N-CA	5.14	130.95	121.70
1	2T	162	ARG	CB-CA-C	-5.14	100.80	110.67
1	34	63	GLN	N-CA-C	5.14	116.96	111.36
1	39	129	ILE	CB-CA-C	5.14	118.55	111.97
1	3g	58	THR	O-C-N	5.14	127.64	122.09
1	3g	129	ILE	CB-CA-C	-5.14	105.30	111.88
1	3o	73	ILE	CA-C-N	5.14	127.42	120.38
1	3o	73	ILE	C-N-CA	5.14	127.42	120.38
1	3p	119	THR	N-CA-C	-5.14	106.86	112.72
1	3G	210	THR	CA-CB-OG1	5.14	117.31	109.60
1	3J	26	VAL	CA-C-N	5.14	127.04	120.56
1	3J	26	VAL	C-N-CA	5.14	127.04	120.56
1	3N	4	GLN	CB-CA-C	5.14	119.03	111.73
1	3N	73	ILE	CA-C-N	5.14	127.48	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3N	73	ILE	C-N-CA	5.14	127.48	120.54
1	3N	75	GLU	O-C-N	-5.14	116.78	122.07
1	40	62	HIS	O-C-N	-5.14	115.69	122.47
1	46	209	ALA	N-CA-C	5.14	117.76	110.10
1	4f	90	PRO	CA-C-N	5.14	127.04	120.56
1	4f	90	PRO	C-N-CA	5.14	127.04	120.56
1	4g	84	HIS	CA-C-N	5.14	126.26	119.84
1	4g	84	HIS	C-N-CA	5.14	126.26	119.84
1	4p	228	ALA	O-C-N	-5.14	116.79	123.32
1	4w	43	LEU	O-C-N	-5.14	116.21	122.22
1	4G	87	HIS	CG-CD2-NE2	5.14	112.34	107.20
1	4J	73	ILE	CA-C-O	5.14	126.22	119.85
1	4M	123	PRO	N-CA-CB	5.14	107.77	103.25
1	4W	142	VAL	CA-C-N	5.14	127.59	120.29
1	4W	142	VAL	C-N-CA	5.14	127.59	120.29
1	51	221	VAL	CA-C-O	5.14	125.71	119.54
1	5g	135	ILE	CA-C-N	5.14	127.59	120.29
1	5g	135	ILE	C-N-CA	5.14	127.59	120.29
1	5o	42	ALA	O-C-N	-5.14	116.29	122.15
1	5w	52	LEU	CA-C-N	5.14	127.42	120.38
1	5w	52	LEU	C-N-CA	5.14	127.42	120.38
1	5y	153	ILE	N-CA-C	5.14	117.90	109.78
1	5K	192	GLN	CB-CA-C	-5.14	100.71	109.65
1	5M	127	GLY	O-C-N	-5.14	117.20	122.19
1	5P	119	THR	CA-C-N	5.14	130.32	120.97
1	5P	119	THR	C-N-CA	5.14	130.32	120.97
1	5S	31	ALA	CA-C-O	5.14	125.50	119.28
1	62	132	ARG	NH1-CZ-NH2	-5.14	112.62	119.30
1	62	173	ARG	CA-C-N	5.14	130.62	122.60
1	62	173	ARG	C-N-CA	5.14	130.62	122.60
1	69	19	THR	CA-CB-CG2	5.14	119.24	110.50
1	6b	156	GLY	CA-C-N	5.14	124.45	118.85
1	6b	156	GLY	C-N-CA	5.14	124.45	118.85
1	6d	95	GLN	N-CA-CB	5.14	118.04	109.56
1	6z	132	ARG	CA-C-N	5.14	127.17	120.28
1	6z	132	ARG	C-N-CA	5.14	127.17	120.28
1	6F	155	GLN	O-C-N	-5.14	117.20	123.16
1	6H	44	SER	CA-C-N	5.14	128.64	121.24
1	6H	44	SER	C-N-CA	5.14	128.64	121.24
1	6I	97	ARG	CA-CB-CG	5.14	124.38	114.10
1	6T	96	MET	CG-SD-CE	-5.14	89.59	100.90
1	6X	170	LYS	CA-C-N	5.14	127.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6X	170	LYS	C-N-CA	5.14	127.17	120.28
1	6X	221	VAL	CA-CB-CG2	-5.14	101.66	110.40
1	6Z	53	ASN	CB-CA-C	-5.14	102.26	110.79
1	6Z	165	VAL	CB-CA-C	-5.14	105.13	112.22
1	76	159	GLU	CA-C-N	5.14	126.27	119.84
1	76	159	GLU	C-N-CA	5.14	126.27	119.84
1	78	113	GLU	CA-C-N	5.14	127.12	120.44
1	78	113	GLU	C-N-CA	5.14	127.12	120.44
1	78	148	THR	O-C-N	-5.14	115.75	122.59
1	7c	65	ALA	CA-C-N	5.14	127.17	120.28
1	7c	65	ALA	C-N-CA	5.14	127.17	120.28
1	7d	18	ARG	NH1-CZ-NH2	-5.14	112.62	119.30
1	7d	32	PHE	CA-C-N	5.14	128.49	120.68
1	7d	32	PHE	C-N-CA	5.14	128.49	120.68
1	7l	136	LEU	CA-C-O	-5.14	115.10	120.55
1	7o	165	VAL	CB-CA-C	-5.14	105.20	112.14
1	7x	15	ILE	N-CA-C	5.14	120.03	109.34
1	7z	119	THR	CA-C-N	5.14	129.55	120.87
1	7z	119	THR	C-N-CA	5.14	129.55	120.87
1	7J	123	PRO	N-CA-C	5.14	119.28	111.11
1	7P	86	VAL	CA-C-N	5.14	129.24	122.30
1	7P	86	VAL	C-N-CA	5.14	129.24	122.30
1	84	19	THR	CA-C-O	5.14	125.94	120.24
1	8b	43	LEU	O-C-N	-5.14	115.95	122.27
1	8b	198	CYS	N-CA-C	5.14	116.88	111.28
1	8y	195	ASN	OD1-CG-ND2	5.14	127.74	122.60
1	8D	124	ILE	N-CA-C	-5.14	102.46	107.55
1	8F	122	PRO	CA-C-N	5.14	126.26	119.84
1	8F	122	PRO	C-N-CA	5.14	126.26	119.84
1	8J	83	LEU	CA-C-O	5.14	126.00	120.55
1	8L	199	LYS	O-C-N	-5.14	116.67	122.12
1	8R	170	LYS	CA-C-O	5.14	125.88	119.97
1	8V	32	PHE	CA-CB-CG	5.14	118.94	113.80
1	92	203	LYS	CB-CG-CD	5.14	123.12	111.30
1	9b	7	GLN	N-CA-CB	5.14	119.72	111.91
1	9g	125	PRO	CA-C-N	5.14	127.50	120.46
1	9g	125	PRO	C-N-CA	5.14	127.50	120.46
1	9h	160	PRO	CA-C-N	5.14	129.66	122.36
1	9h	160	PRO	C-N-CA	5.14	129.66	122.36
1	9l	201	ILE	O-C-N	5.14	127.12	121.83
1	9o	9	GLN	O-C-N	-5.14	115.75	122.59
1	9o	78	ALA	CA-C-N	5.14	127.12	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9o	78	ALA	C-N-CA	5.14	127.12	120.44
1	9z	216	THR	CA-C-O	5.14	125.50	119.28
1	9P	4	GLN	N-CA-C	5.14	116.92	110.24
1	Y	178	SER	O-C-N	-5.14	115.75	122.59
1	9S	100	ARG	NE-CZ-NH1	-5.14	116.36	121.50
1	a0	206	GLY	CA-C-O	-5.14	114.17	121.52
1	a5	101	GLY	CA-C-O	5.14	125.72	119.65
1	ac	117	TRP	N-CA-C	5.14	116.88	111.28
1	ak	156	GLY	O-C-N	-5.14	116.63	121.77
1	av	226	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	aw	5	ASN	CA-CB-CG	-5.14	107.46	112.60
1	aA	43	LEU	N-CA-C	-5.14	107.01	113.28
1	aN	202	LEU	O-C-N	-5.14	116.67	122.12
1	14	3	VAL	CB-CA-C	5.14	118.30	110.90
1	15	176	GLN	CB-CG-CD	5.14	121.34	112.60
1	b9	7	GLN	CG-CD-OE1	5.14	131.08	120.80
1	bx	220	GLY	CA-C-N	5.14	129.56	123.19
1	bx	220	GLY	C-N-CA	5.14	129.56	123.19
1	by	100	ARG	CG-CD-NE	-5.14	100.69	112.00
1	bD	226	HIS	CB-CA-C	-5.14	100.42	109.62
1	1a	96	MET	N-CA-C	5.14	117.93	109.76
1	bN	213	GLU	O-C-N	-5.14	116.78	122.07
1	bU	18	ARG	CA-C-O	-5.14	114.97	120.42
1	1b	33	SER	O-C-N	-5.14	114.99	121.21
1	bX	4	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	bZ	153	ILE	O-C-N	-5.14	117.43	122.67
1	c0	165	VAL	CA-CB-CG1	5.14	119.14	110.40
1	cj	53	ASN	O-C-N	-5.14	115.54	122.43
1	cm	2	ILE	CA-C-N	-5.14	116.03	121.84
1	cm	2	ILE	C-N-CA	-5.14	116.03	121.84
1	cr	74	ASN	N-CA-C	5.14	116.88	111.28
1	cr	160	PRO	CA-C-N	5.14	128.12	120.31
1	cr	160	PRO	C-N-CA	5.14	128.12	120.31
1	cy	13	GLN	CG-CD-OE1	5.14	131.08	120.80
1	cB	15	ILE	CA-C-N	5.14	129.85	121.83
1	cB	15	ILE	C-N-CA	5.14	129.85	121.83
1	cC	162	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	cD	195	ASN	CB-CA-C	5.14	117.55	109.27
1	cM	97	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	cS	199	LYS	O-C-N	-5.14	116.21	122.22
1	1h	174	ALA	CA-C-O	5.14	125.01	119.15
1	cV	12	HIS	O-C-N	-5.14	116.51	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cY	182	LYS	N-CA-C	5.14	116.88	111.28
1	d2	146	SER	CA-C-N	5.14	126.27	119.84
1	d2	146	SER	C-N-CA	5.14	126.27	119.84
1	d3	70	LYS	N-CA-C	5.14	116.88	111.28
1	d9	45	GLU	N-CA-C	5.14	121.75	110.80
1	d9	87	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	1k	129	ILE	CA-C-N	5.14	127.17	120.28
1	1k	129	ILE	C-N-CA	5.14	127.17	120.28
1	dI	23	TRP	CB-CG-CD1	-5.14	119.19	126.90
1	ea	132	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	ef	163	ASP	CA-CB-CG	5.14	117.74	112.60
1	eg	30	LYS	CB-CA-C	-5.14	102.53	109.16
1	1q	118	MET	CA-C-O	5.14	125.30	119.18
1	1q	205	LEU	CA-C-N	5.14	129.94	121.87
1	1q	205	LEU	C-N-CA	5.14	129.94	121.87
1	eq	51	ASP	CA-CB-CG	5.14	117.74	112.60
1	eu	10	MET	CG-SD-CE	-5.14	89.59	100.90
1	ev	47	ALA	O-C-N	-5.14	116.55	122.87
1	ev	151	LEU	CA-C-O	5.14	125.70	119.38
1	ey	46	GLY	O-C-N	-5.14	116.44	122.45
1	eJ	180	GLU	N-CA-CB	5.14	117.77	110.16
1	eO	174	ALA	N-CA-CB	-5.14	102.39	110.46
1	eO	194	ALA	CA-C-N	5.14	128.18	120.83
1	eO	194	ALA	C-N-CA	5.14	128.18	120.83
1	eS	161	PHE	CA-CB-CG	-5.14	108.66	113.80
1	f2	6	LEU	CA-C-O	5.14	125.69	119.11
1	f6	47	ALA	CA-C-N	5.14	128.46	120.60
1	f6	47	ALA	C-N-CA	5.14	128.46	120.60
1	f8	46	GLY	CA-C-N	5.14	128.15	120.95
1	f8	46	GLY	C-N-CA	5.14	128.15	120.95
1	fe	27	VAL	N-CA-CB	5.14	117.53	110.54
1	fe	107	THR	N-CA-C	5.14	116.88	111.28
1	fo	149	SER	N-CA-CB	5.14	117.53	109.97
1	fx	1	PRO	CB-CA-C	5.14	119.86	110.10
1	fx	24	VAL	CA-C-O	5.14	126.79	121.29
1	fP	154	ARG	NE-CZ-NH2	-5.14	114.58	119.20
1	fW	122	PRO	CA-C-N	5.14	125.05	119.76
1	fW	122	PRO	C-N-CA	5.14	125.05	119.76
1	fX	52	LEU	CA-C-N	5.14	127.17	120.28
1	fX	52	LEU	C-N-CA	5.14	127.17	120.28
1	fX	97	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	1A	205	LEU	CA-C-N	5.14	129.94	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1A	205	LEU	C-N-CA	5.14	129.94	121.87
1	g0	62	HIS	ND1-CG-CD2	5.14	111.24	106.10
1	g1	143	ARG	NE-CZ-NH2	-5.14	114.57	119.20
1	g3	173	ARG	CA-C-O	-5.14	115.42	120.82
1	g5	120	HIS	CA-C-N	-5.14	115.67	122.56
1	g5	120	HIS	C-N-CA	-5.14	115.67	122.56
1	g5	130	TYR	N-CA-C	5.14	116.96	111.36
1	1B	146	SER	CA-C-N	5.14	124.83	119.64
1	1B	146	SER	C-N-CA	5.14	124.83	119.64
1	b	169	TYR	CB-CG-CD1	-5.14	113.09	120.80
1	c	162	ARG	CB-CG-CD	5.14	123.12	111.30
1	g	10	MET	N-CA-C	5.14	117.76	110.10
1	g	189	LEU	N-CA-C	5.14	116.57	111.07
1	l	112	GLN	CB-CG-CD	5.14	121.33	112.60
1	p	88	ALA	N-CA-C	5.14	117.62	109.96
1	v	109	SER	N-CA-CB	5.14	118.96	110.69
1	w	185	MET	CA-C-N	5.14	127.93	120.79
1	w	185	MET	C-N-CA	5.14	127.93	120.79
1	C	67	GLN	O-C-N	5.14	127.36	122.07
1	C	88	ALA	N-CA-CB	-5.14	102.49	110.04
1	J	229	ARG	O-C-N	-5.14	117.30	123.06
1	O	43	LEU	N-CA-C	-5.14	106.96	113.18
1	O	152	ASP	O-C-N	-5.14	116.17	122.34
1	6	224	PRO	CA-C-O	-5.14	115.55	121.36
1	g9	182	LYS	O-C-N	-5.14	116.67	122.12
1	gf	120	HIS	CA-CB-CG	5.14	118.94	113.80
1	gA	113	GLU	O-C-N	-5.14	116.78	122.07
1	h0	71	GLU	CA-C-N	5.14	127.12	120.44
1	h0	71	GLU	C-N-CA	5.14	127.12	120.44
1	h1	2	ILE	O-C-N	-5.14	117.78	123.18
1	h1	133	TRP	CA-C-O	-5.14	115.10	120.55
1	1H	209	ALA	N-CA-C	5.14	117.89	110.28
1	h6	25	LYS	N-CA-C	5.14	116.57	111.07
1	h7	118	MET	O-C-N	-5.14	116.21	122.22
1	hg	44	SER	CB-CA-C	-5.14	102.42	110.85
1	ht	126	VAL	CA-C-N	5.14	125.65	120.00
1	ht	126	VAL	C-N-CA	5.14	125.65	120.00
1	hI	22	ALA	N-CA-C	5.14	117.55	111.33
1	hW	116	GLY	N-CA-C	5.14	119.35	112.77
1	i6	5	ASN	N-CA-C	5.14	121.74	110.80
1	ia	161	PHE	CA-CB-CG	5.14	118.94	113.80
1	1Q	65	ALA	N-CA-CB	5.14	117.67	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iz	126	VAL	O-C-N	5.14	127.12	121.83
1	iK	129	ILE	CA-C-N	5.14	127.12	120.44
1	iK	129	ILE	C-N-CA	5.14	127.12	120.44
1	iK	183	ASN	N-CA-C	5.14	116.88	111.28
1	j0	19	THR	CA-C-N	5.14	127.12	120.44
1	j0	19	THR	C-N-CA	5.14	127.12	120.44
1	j4	188	THR	N-CA-C	5.14	116.57	111.07
1	jG	81	ASP	CA-CB-CG	5.14	117.74	112.60
1	jL	40	PHE	N-CA-C	5.14	117.28	111.11
1	jM	17	PRO	CA-C-N	5.14	127.17	120.28
1	jM	17	PRO	C-N-CA	5.14	127.17	120.28
1	jN	41	SER	N-CA-CB	5.14	117.46	110.01
1	jU	3	VAL	CA-CB-CG2	5.14	119.14	110.40
1	jX	124	ILE	N-CA-CB	5.14	116.90	111.20
1	k6	69	LEU	CA-C-N	5.14	127.68	120.28
1	k6	69	LEU	C-N-CA	5.14	127.68	120.28
1	kg	207	PRO	CA-C-O	5.14	125.37	118.90
1	ki	138	LEU	CA-C-N	5.14	127.17	120.28
1	ki	138	LEU	C-N-CA	5.14	127.17	120.28
1	kn	119	THR	CA-C-N	5.14	128.51	120.75
1	kn	119	THR	C-N-CA	5.14	128.51	120.75
1	kF	111	LEU	CA-C-O	5.14	126.00	120.55
1	kO	84	HIS	CA-C-O	5.14	126.20	120.34
1	kY	150	ILE	CA-C-N	5.14	127.42	120.38
1	kY	150	ILE	C-N-CA	5.14	127.42	120.38
1	l4	217	ALA	N-CA-C	5.14	117.68	110.23
1	lq	50	GLN	N-CA-CB	-5.14	102.28	109.94
1	lJ	229	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	lO	101	GLY	N-CA-C	5.14	119.10	112.83
1	2l	44	SER	CB-CA-C	-5.14	99.57	110.31
1	2r	19	THR	N-CA-CB	5.14	117.52	110.07
1	2K	55	MET	CA-C-O	5.14	126.00	120.55
1	2M	133	TRP	N-CA-CB	5.14	117.46	110.01
1	2M	190	LEU	CA-C-O	5.14	126.22	120.82
1	2P	97	ARG	NE-CZ-NH2	-5.14	114.58	119.20
1	2Q	70	LYS	CA-C-N	5.14	127.16	120.28
1	2Q	70	LYS	C-N-CA	5.14	127.16	120.28
1	3j	125	PRO	CA-C-N	5.14	127.72	120.42
1	3j	125	PRO	C-N-CA	5.14	127.72	120.42
1	3j	160	PRO	CA-N-CD	-5.14	104.81	112.00
1	3w	141	ILE	O-C-N	-5.14	116.89	121.87
1	3H	119	THR	CA-C-N	5.14	129.01	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3H	119	THR	C-N-CA	5.14	129.01	120.94
1	3Z	60	GLY	O-C-N	-5.14	116.02	122.70
1	4i	114	GLN	CA-C-N	5.14	127.50	120.46
1	4i	114	GLN	C-N-CA	5.14	127.50	120.46
1	4Z	100	ARG	N-CA-C	-5.14	102.40	110.36
1	5y	201	ILE	N-CA-C	5.14	115.86	110.62
1	5H	26	VAL	CA-C-N	5.14	127.50	120.46
1	5H	26	VAL	C-N-CA	5.14	127.50	120.46
1	5J	91	ILE	N-CA-CB	5.14	119.91	111.38
1	5P	212	GLU	CB-CA-C	-5.14	102.21	110.74
1	5V	164	TYR	CA-CB-CG	-5.14	104.65	113.90
1	5Z	35	GLU	O-C-N	-5.14	115.11	122.41
1	61	22	ALA	CA-C-N	5.14	127.12	120.44
1	61	22	ALA	C-N-CA	5.14	127.12	120.44
1	69	53	ASN	CA-C-O	5.14	125.70	119.38
1	6d	223	GLY	O-C-N	-5.14	116.63	121.77
1	6s	166	ASP	CA-CB-CG	5.14	117.74	112.60
1	6v	201	ILE	O-C-N	5.14	126.85	121.87
1	6F	10	MET	O-C-N	-5.14	117.46	123.27
1	6J	172	LEU	CA-C-N	5.14	127.16	120.28
1	6J	172	LEU	C-N-CA	5.14	127.16	120.28
1	6U	76	GLU	N-CA-C	5.14	117.62	111.71
1	6W	24	VAL	N-CA-C	5.14	115.86	110.62
1	7k	77	ALA	N-CA-C	5.14	117.55	111.33
1	7E	102	SER	N-CA-CB	5.14	118.13	110.22
1	8e	51	ASP	N-CA-C	5.14	116.57	111.07
1	8l	180	GLU	N-CA-CB	5.14	117.67	110.12
1	8q	126	VAL	N-CA-CB	5.14	117.53	110.54
1	8t	9	GLN	CG-CD-OE1	5.14	131.08	120.80
1	8A	173	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	8O	136	LEU	CA-C-N	5.14	125.54	119.94
1	8O	136	LEU	C-N-CA	5.14	125.54	119.94
1	91	10	MET	CA-C-N	5.14	129.00	122.37
1	91	10	MET	C-N-CA	5.14	129.00	122.37
1	9c	21	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	9i	126	VAL	N-CA-C	5.14	115.86	110.62
1	9F	40	PHE	N-CA-CB	5.14	117.46	110.01
1	9L	81	ASP	O-C-N	-5.14	116.78	122.07
1	ak	45	GLU	CB-CA-C	-5.14	102.76	110.16
1	ar	23	TRP	CA-CB-CG	5.14	123.36	113.60
1	az	62	HIS	CB-CA-C	5.14	119.03	111.73
1	14	70	LYS	CG-CD-CE	5.14	123.12	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bn	36	VAL	N-CA-C	5.14	115.86	110.62
1	18	105	ALA	CA-C-O	5.14	125.73	119.05
1	bY	115	ILE	CA-C-O	5.14	126.30	120.85
1	c6	171	THR	N-CA-C	5.14	116.88	111.28
1	cE	208	ALA	CA-C-O	5.14	125.57	119.56
1	1g	40	PHE	CA-C-N	5.14	127.12	120.44
1	1g	40	PHE	C-N-CA	5.14	127.12	120.44
1	cL	87	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	d2	23	TRP	CB-CG-CD2	-5.14	119.61	126.80
1	d7	14	ALA	CB-CA-C	-5.14	101.19	109.72
1	dd	176	GLN	O-C-N	-5.14	115.53	122.41
1	du	165	VAL	CA-C-N	5.14	127.48	120.54
1	du	165	VAL	C-N-CA	5.14	127.48	120.54
1	dB	126	VAL	N-CA-C	5.14	115.86	110.62
1	dB	229	ARG	NH1-CZ-NH2	5.14	125.98	119.30
1	dH	63	GLN	CA-C-O	5.14	125.69	119.11
1	e0	117	TRP	N-CA-C	5.14	116.57	111.07
1	eM	5	ASN	N-CA-C	-5.14	104.51	111.55
1	eU	120	HIS	CA-CB-CG	-5.14	108.66	113.80
1	f4	64	ALA	CA-C-N	-5.14	113.39	120.28
1	f4	64	ALA	C-N-CA	-5.14	113.39	120.28
1	1w	58	THR	CA-C-N	5.14	128.27	120.77
1	1w	58	THR	C-N-CA	5.14	128.27	120.77
1	ft	132	ARG	CA-C-O	5.14	126.22	120.82
1	1x	169	TYR	N-CA-C	5.14	119.26	112.89
1	fW	61	GLY	CA-C-O	5.14	128.03	122.33
1	1A	113	GLU	CA-C-N	5.14	127.12	120.44
1	1A	113	GLU	C-N-CA	5.14	127.12	120.44
1	fZ	177	ALA	CA-C-N	5.14	131.35	121.54
1	fZ	177	ALA	C-N-CA	5.14	131.35	121.54
1	1B	218	CYS	N-CA-CB	5.14	119.17	110.49
1	S	68	MET	CA-C-N	5.14	127.12	120.44
1	S	68	MET	C-N-CA	5.14	127.12	120.44
1	U	203	LYS	N-CA-C	5.14	116.57	111.07
1	7	130	TYR	CA-CB-CG	5.14	123.15	113.90
1	8	4	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	gb	13	GLN	O-C-N	-5.14	116.47	123.15
1	gj	82	ARG	CA-CB-CG	5.14	124.37	114.10
1	gl	176	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	1D	221	VAL	N-CA-C	5.14	117.51	111.09
1	gJ	182	LYS	N-CA-CB	5.14	117.46	110.01
1	gQ	3	VAL	CB-CA-C	-5.14	104.47	111.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h1	176	GLN	CB-CA-C	5.14	118.59	109.65
1	hf	11	VAL	O-C-N	-5.14	117.52	123.07
1	hf	192	GLN	N-CA-CB	5.14	118.25	110.14
1	hj	171	THR	N-CA-CB	5.14	117.59	109.94
1	hn	110	THR	O-C-N	-5.14	117.00	122.85
1	hp	193	ASN	OD1-CG-ND2	-5.14	117.46	122.60
1	hu	176	GLN	O-C-N	-5.14	115.92	122.34
1	hz	52	LEU	N-CA-C	5.14	116.96	111.36
1	hz	129	ILE	CA-C-N	5.14	127.12	120.44
1	hz	129	ILE	C-N-CA	5.14	127.12	120.44
1	i0	165	VAL	N-CA-CB	-5.14	104.05	110.47
1	i7	126	VAL	N-CA-C	5.14	117.47	111.05
1	if	107	THR	CA-CB-OG1	5.14	117.30	109.60
1	ii	19	THR	CA-CB-CG2	5.14	119.23	110.50
1	ip	203	LYS	CA-C-N	5.14	127.12	120.44
1	ip	203	LYS	C-N-CA	5.14	127.12	120.44
1	ir	226	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	ix	224	PRO	CA-C-N	5.14	126.04	120.44
1	ix	224	PRO	C-N-CA	5.14	126.04	120.44
1	iX	111	LEU	CA-C-N	5.14	127.47	120.54
1	iX	111	LEU	C-N-CA	5.14	127.47	120.54
1	iX	114	GLN	N-CA-C	5.14	116.57	111.07
1	iX	153	ILE	CA-C-N	5.14	130.24	123.00
1	iX	153	ILE	C-N-CA	5.14	130.24	123.00
1	iZ	197	ASP	CA-C-N	5.14	127.42	120.44
1	iZ	197	ASP	C-N-CA	5.14	127.42	120.44
1	j0	42	ALA	CA-C-N	5.14	127.16	120.28
1	j0	42	ALA	C-N-CA	5.14	127.16	120.28
1	j0	112	GLN	O-C-N	-5.14	116.20	122.11
1	jd	132	ARG	N-CA-C	5.14	116.96	111.36
1	jj	9	GLN	CA-C-N	5.14	128.06	120.82
1	jj	9	GLN	C-N-CA	5.14	128.06	120.82
1	jk	25	LYS	O-C-N	-5.14	116.29	122.15
1	jl	51	ASP	CA-C-N	5.14	127.16	120.28
1	jl	51	ASP	C-N-CA	5.14	127.16	120.28
1	jz	151	LEU	O-C-N	-5.14	115.92	122.34
1	jD	23	TRP	N-CA-C	5.14	116.88	111.28
1	jD	120	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	jD	120	HIS	ND1-CE1-NE2	5.14	113.54	108.40
1	jE	87	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	jO	150	ILE	CA-C-N	5.14	128.14	120.95
1	jO	150	ILE	C-N-CA	5.14	128.14	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jY	58	THR	CA-CB-CG2	5.14	119.23	110.50
1	k0	202	LEU	CA-C-O	-5.14	115.11	120.55
1	k3	92	GLU	N-CA-C	5.14	119.23	112.35
1	k9	194	ALA	CA-C-N	5.14	128.49	120.68
1	k9	194	ALA	C-N-CA	5.14	128.49	120.68
1	ka	163	ASP	N-CA-C	5.14	117.78	111.82
1	kb	170	LYS	N-CA-C	5.14	117.27	111.11
1	kc	27	VAL	N-CA-C	5.14	115.91	110.72
1	kh	180	GLU	CA-C-N	5.14	127.50	120.46
1	kh	180	GLU	C-N-CA	5.14	127.50	120.46
1	km	148	THR	N-CA-CB	5.14	119.17	110.49
1	kr	65	ALA	CB-CA-C	5.14	119.58	110.85
1	kt	228	ALA	O-C-N	-5.14	116.49	122.81
1	kE	118	MET	N-CA-C	5.14	117.78	111.82
1	kO	147	PRO	CA-C-N	5.14	128.14	120.95
1	kO	147	PRO	C-N-CA	5.14	128.14	120.95
1	kP	94	GLY	CA-C-N	5.14	131.35	121.54
1	kP	94	GLY	C-N-CA	5.14	131.35	121.54
1	kT	173	ARG	N-CA-CB	-5.14	102.31	110.22
1	l1	133	TRP	CE2-CD2-CE3	5.14	123.94	118.80
1	l6	229	ARG	CG-CD-NE	-5.14	100.70	112.00
1	la	46	GLY	CA-C-N	5.14	130.23	122.99
1	la	46	GLY	C-N-CA	5.14	130.23	122.99
1	lb	135	ILE	CA-C-O	-5.14	115.61	120.95
1	lc	184	TRP	CD2-CE2-CZ2	-5.14	117.26	122.40
1	27	46	GLY	CA-C-N	5.14	128.16	120.87
1	27	46	GLY	C-N-CA	5.14	128.16	120.87
1	lm	15	ILE	N-CA-C	5.14	120.03	109.34
1	lm	156	GLY	O-C-N	-5.14	116.63	121.77
1	lo	139	ASN	CA-C-N	5.14	127.16	120.28
1	lo	139	ASN	C-N-CA	5.14	127.16	120.28
1	lv	228	ALA	N-CA-C	-5.14	100.04	108.41
1	lx	39	MET	CA-C-O	5.14	125.86	120.42
1	lB	100	ARG	O-C-N	-5.14	116.67	122.68
1	lL	49	PRO	CB-CA-C	5.14	120.04	111.56
1	lL	59	VAL	CA-CB-CG1	5.14	119.13	110.40
1	lM	86	VAL	N-CA-C	5.14	115.98	108.53
1	lO	199	LYS	CA-C-N	5.14	127.16	120.28
1	lO	199	LYS	C-N-CA	5.14	127.16	120.28
1	2s	2	ILE	N-CA-CB	5.14	118.81	111.82
1	2u	135	ILE	CA-C-N	5.14	127.47	120.54
1	2u	135	ILE	C-N-CA	5.14	127.47	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2w	110	THR	CA-CB-OG1	5.14	117.30	109.60
1	2z	172	LEU	N-CA-C	5.14	117.78	111.82
1	2B	203	LYS	N-CA-C	5.14	116.57	111.07
1	2R	199	LYS	CB-CA-C	5.14	119.03	110.81
1	2R	227	LYS	CA-C-N	5.14	128.37	120.82
1	2R	227	LYS	C-N-CA	5.14	128.37	120.82
1	2U	171	THR	CA-C-N	5.14	127.58	120.29
1	2U	171	THR	C-N-CA	5.14	127.58	120.29
1	2X	183	ASN	N-CA-C	5.14	117.67	111.40
1	37	84	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	3a	95	GLN	CA-C-O	-5.14	115.15	120.70
1	3i	201	ILE	O-C-N	-5.14	116.88	121.91
1	3j	202	LEU	N-CA-C	5.14	116.88	111.28
1	3k	87	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	3v	166	ASP	N-CA-C	5.14	116.57	111.07
1	3y	163	ASP	CA-CB-CG	-5.14	107.46	112.60
1	3A	197	ASP	N-CA-CB	-5.14	102.62	110.07
1	3E	43	LEU	N-CA-C	5.14	116.96	111.36
1	3E	81	ASP	O-C-N	-5.14	116.68	122.12
1	3G	60	GLY	CA-C-N	5.14	131.48	121.41
1	3G	60	GLY	C-N-CA	5.14	131.48	121.41
1	3Q	107	THR	N-CA-CB	5.14	117.52	110.07
1	3X	196	PRO	N-CA-C	5.14	120.58	113.65
1	49	162	ARG	O-C-N	5.14	127.56	122.12
1	4b	172	LEU	CA-C-N	5.14	128.12	120.31
1	4b	172	LEU	C-N-CA	5.14	128.12	120.31
1	4e	20	LEU	N-CA-C	5.14	116.96	111.36
1	4g	135	ILE	O-C-N	-5.14	116.89	121.87
1	4j	83	LEU	N-CA-C	-5.14	106.52	112.89
1	4n	210	THR	CB-CA-C	5.14	118.82	109.83
1	4o	200	THR	N-CA-CB	5.14	117.67	110.12
1	4r	205	LEU	O-C-N	-5.14	116.67	122.12
1	4v	229	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	4C	121	ASN	CB-CG-ND2	-5.14	108.70	116.40
1	4K	82	ARG	N-CA-CB	5.14	117.46	110.01
1	4W	195	ASN	CA-CB-CG	5.14	117.74	112.60
1	4Y	205	LEU	N-CA-C	5.14	116.57	111.07
1	53	134	ILE	N-CA-C	5.14	115.86	110.62
1	55	79	GLU	CB-CA-C	5.14	119.58	110.85
1	5d	185	MET	CA-C-N	5.14	127.47	120.54
1	5d	185	MET	C-N-CA	5.14	127.47	120.54
1	5e	73	ILE	N-CA-C	5.14	115.75	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5j	212	GLU	O-C-N	-5.14	116.67	122.12
1	5k	6	LEU	CA-C-N	5.14	131.35	121.54
1	5k	6	LEU	C-N-CA	5.14	131.35	121.54
1	5k	209	ALA	N-CA-C	5.14	117.33	110.35
1	5o	120	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	5o	201	ILE	N-CA-CB	5.14	116.21	110.51
1	5r	164	TYR	O-C-N	-5.14	116.68	122.12
1	5I	56	LEU	CB-CA-C	-5.14	99.26	109.99
1	5K	179	GLN	N-CA-CB	-5.14	102.57	110.12
1	5S	82	ARG	N-CA-C	5.14	116.96	111.36
1	5X	87	HIS	CA-CB-CG	5.14	118.94	113.80
1	5Z	151	LEU	N-CA-C	-5.14	106.86	113.02
1	61	213	GLU	O-C-N	-5.14	116.29	122.15
1	6a	15	ILE	N-CA-C	5.14	116.63	109.80
1	6k	50	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	6w	75	GLU	N-CA-C	5.14	116.57	111.07
1	6y	144	MET	N-CA-CB	-5.14	102.57	110.12
1	6G	133	TRP	CA-C-O	-5.14	114.98	120.42
1	6I	177	ALA	O-C-N	-5.14	116.74	122.75
1	6R	217	ALA	O-C-N	-5.14	116.18	123.01
1	6X	5	ASN	CA-CB-CG	-5.14	107.46	112.60
1	73	90	PRO	CA-C-N	5.14	129.91	122.77
1	73	90	PRO	C-N-CA	5.14	129.91	122.77
1	7f	20	LEU	O-C-N	-5.14	116.67	122.12
1	7m	60	GLY	O-C-N	-5.14	115.95	122.32
1	7r	196	PRO	N-CA-C	5.14	123.05	112.47
1	7x	32	PHE	N-CA-CB	5.14	118.03	109.60
1	7y	78	ALA	N-CA-C	5.14	116.88	111.28
1	7B	186	THR	CA-C-O	5.14	126.00	120.55
1	7S	41	SER	CA-C-O	-5.14	114.06	119.97
1	7T	132	ARG	CA-C-N	5.14	127.16	120.28
1	7T	132	ARG	C-N-CA	5.14	127.16	120.28
1	7U	186	THR	N-CA-C	5.14	116.88	111.28
1	7Y	59	VAL	CA-C-O	5.14	127.20	120.78
1	7Z	211	LEU	CA-C-N	5.14	127.47	120.54
1	7Z	211	LEU	C-N-CA	5.14	127.47	120.54
1	80	181	VAL	CA-CB-CG2	-5.14	101.67	110.40
1	84	192	GLN	CG-CD-NE2	5.14	124.10	116.40
1	8a	219	GLN	CB-CA-C	5.14	118.43	109.65
1	8h	73	ILE	CB-CA-C	-5.14	105.39	111.97
1	8k	183	ASN	CB-CA-C	-5.14	101.13	110.63
1	8l	180	GLU	N-CA-C	5.14	116.88	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8u	138	LEU	N-CA-C	5.14	117.27	111.11
1	8z	200	THR	O-C-N	-5.14	116.67	122.12
1	8D	40	PHE	CA-CB-CG	-5.14	108.66	113.80
1	8P	210	THR	CA-CB-OG1	5.14	117.30	109.60
1	8U	51	ASP	CA-C-O	-5.14	115.43	120.82
1	90	141	ILE	CA-C-N	5.14	127.50	120.46
1	90	141	ILE	C-N-CA	5.14	127.50	120.46
1	90	229	ARG	N-CA-CB	5.14	117.57	110.17
1	91	188	THR	N-CA-C	5.14	116.95	108.48
1	97	68	MET	CA-C-O	5.14	125.86	120.42
1	9g	60	GLY	CA-C-N	5.14	124.98	120.10
1	9g	60	GLY	C-N-CA	5.14	124.98	120.10
1	9i	182	LYS	N-CA-C	5.14	116.88	111.28
1	9j	229	ARG	NE-CZ-NH2	5.14	123.82	119.20
1	9o	111	LEU	CA-C-N	5.14	127.58	120.29
1	9o	111	LEU	C-N-CA	5.14	127.58	120.29
1	9z	48	THR	CA-CB-CG2	-5.14	101.77	110.50
1	9B	143	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	9C	133	TRP	CB-CG-CD1	5.14	134.60	126.90
1	9D	25	LYS	CA-C-N	5.14	127.50	120.77
1	9D	25	LYS	C-N-CA	5.14	127.50	120.77
1	9D	195	ASN	CA-C-O	-5.14	114.89	120.69
1	9F	52	LEU	CD1-CG-CD2	-5.14	99.50	110.80
1	9H	141	ILE	CA-C-N	5.14	127.50	120.46
1	9H	141	ILE	C-N-CA	5.14	127.50	120.46
1	9M	188	THR	CA-CB-OG1	5.14	117.31	109.60
1	9S	119	THR	CA-C-N	5.14	132.35	122.03
1	9S	119	THR	C-N-CA	5.14	132.35	122.03
1	9W	40	PHE	CA-C-O	5.14	126.21	120.82
1	9W	141	ILE	CA-C-N	5.14	127.50	120.46
1	9W	141	ILE	C-N-CA	5.14	127.50	120.46
1	a2	200	THR	O-C-N	5.14	128.01	122.15
1	a3	148	THR	N-CA-C	5.14	117.75	110.10
1	a8	37	ILE	O-C-N	-5.14	115.25	121.10
1	ae	182	LYS	CA-C-N	5.14	127.16	120.28
1	ae	182	LYS	C-N-CA	5.14	127.16	120.28
1	an	12	HIS	CB-CG-CD2	-5.14	124.52	131.20
1	aq	97	ARG	NE-CZ-NH2	5.14	123.82	119.20
1	aq	203	LYS	CA-C-N	5.14	127.16	120.28
1	aq	203	LYS	C-N-CA	5.14	127.16	120.28
1	at	146	SER	CA-C-O	-5.14	115.05	119.36
1	14	92	GLU	CA-C-O	5.14	127.20	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aQ	192	GLN	OE1-CD-NE2	-5.14	117.46	122.60
1	15	57	ASN	O-C-N	-5.14	115.95	122.27
1	b4	42	ALA	O-C-N	-5.14	116.78	122.07
1	b5	53	ASN	CA-C-N	5.14	127.47	120.54
1	b5	53	ASN	C-N-CA	5.14	127.47	120.54
1	b7	100	ARG	CA-C-N	5.14	125.79	119.99
1	b7	100	ARG	C-N-CA	5.14	125.79	119.99
1	16	214	MET	N-CA-C	5.14	116.88	111.28
1	ba	28	GLU	CB-CG-CD	-5.14	103.87	112.60
1	bb	229	ARG	CG-CD-NE	-5.14	100.70	112.00
1	bm	66	MET	CA-C-N	5.14	127.12	120.44
1	bm	66	MET	C-N-CA	5.14	127.12	120.44
1	bp	158	LYS	O-C-N	5.14	128.36	122.25
1	18	195	ASN	CA-C-N	5.14	126.26	119.84
1	18	195	ASN	C-N-CA	5.14	126.26	119.84
1	bH	228	ALA	N-CA-CB	-5.14	102.43	110.44
1	bM	5	ASN	CA-CB-CG	-5.14	107.46	112.60
1	bN	26	VAL	CA-CB-CG2	5.14	119.13	110.40
1	bT	165	VAL	CA-C-N	5.14	127.16	120.28
1	bT	165	VAL	C-N-CA	5.14	127.16	120.28
1	bU	142	VAL	O-C-N	-5.14	116.88	121.91
1	c0	178	SER	CB-CA-C	-5.14	101.19	109.72
1	c8	188	THR	CA-CB-CG2	5.14	119.23	110.50
1	ca	178	SER	O-C-N	-5.14	116.38	122.65
1	cd	227	LYS	CB-CA-C	5.14	118.11	109.89
1	ck	40	PHE	CA-CB-CG	5.14	118.94	113.80
1	ck	144	MET	CG-SD-CE	-5.14	89.60	100.90
1	cr	57	ASN	CB-CA-C	-5.14	101.13	110.63
1	cy	166	ASP	O-C-N	-5.14	116.78	122.07
1	cC	23	TRP	CA-CB-CG	5.14	123.36	113.60
1	cN	15	ILE	CA-CB-CG1	5.14	119.13	110.40
1	d1	49	PRO	N-CA-C	5.14	123.05	112.47
1	d5	86	VAL	CB-CA-C	-5.14	105.20	112.14
1	1j	8	GLY	CA-C-O	5.14	126.11	120.66
1	dj	12	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	dl	199	LYS	CA-C-N	5.14	129.36	121.19
1	dl	199	LYS	C-N-CA	5.14	129.36	121.19
1	dD	128	GLU	CB-CG-CD	5.14	121.33	112.60
1	dG	146	SER	CA-C-O	-5.14	114.92	119.75
1	dO	120	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
1	dS	23	TRP	CA-C-O	5.14	125.99	120.55
1	dS	176	GLN	CA-C-N	5.14	130.86	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dS	176	GLN	C-N-CA	5.14	130.86	121.97
1	dY	98	GLU	CA-C-N	5.14	125.14	119.90
1	dY	98	GLU	C-N-CA	5.14	125.14	119.90
1	e0	129	ILE	CA-C-N	5.14	127.58	120.29
1	e0	129	ILE	C-N-CA	5.14	127.58	120.29
1	e6	56	LEU	CA-C-O	5.14	126.21	120.82
1	e7	2	ILE	CA-CB-CG1	5.14	119.13	110.40
1	e7	104	ILE	CA-CB-CG2	5.14	119.23	110.50
1	ea	143	ARG	NE-CZ-NH2	5.14	123.82	119.20
1	1p	140	LYS	CA-C-N	5.14	127.50	120.46
1	1p	140	LYS	C-N-CA	5.14	127.50	120.46
1	em	175	GLU	N-CA-C	5.14	117.66	109.96
1	ex	100	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	ex	176	GLN	CB-CA-C	5.14	119.58	109.72
1	eC	185	MET	CG-SD-CE	-5.14	89.60	100.90
1	eP	23	TRP	CA-C-N	5.14	127.03	120.56
1	eP	23	TRP	C-N-CA	5.14	127.03	120.56
1	eQ	173	ARG	NE-CZ-NH1	5.14	126.64	121.50
1	eR	216	THR	N-CA-CB	5.14	117.76	110.16
1	f5	97	ARG	NE-CZ-NH2	-5.14	114.58	119.20
1	fa	35	GLU	N-CA-C	5.14	119.03	112.87
1	fa	195	ASN	N-CA-C	5.14	117.17	110.08
1	fd	197	ASP	CA-CB-CG	-5.14	107.46	112.60
1	fi	123	PRO	N-CA-C	5.14	119.30	111.34
1	fw	30	LYS	O-C-N	-5.14	116.03	122.35
1	fA	47	ALA	N-CA-C	5.14	117.68	110.23
1	fJ	184	TRP	CB-CA-C	5.14	118.94	110.88
1	fV	226	HIS	O-C-N	-5.14	117.20	123.16
1	fW	57	ASN	O-C-N	-5.14	116.78	122.07
1	1A	19	THR	CA-C-N	5.14	127.12	120.44
1	1A	19	THR	C-N-CA	5.14	127.12	120.44
1	g0	144	MET	CA-C-N	5.14	130.13	121.14
1	g0	144	MET	C-N-CA	5.14	130.13	121.14
1	g2	177	ALA	CA-C-N	5.14	128.51	120.75
1	g2	177	ALA	C-N-CA	5.14	128.51	120.75
1	g	146	SER	O-C-N	-5.14	115.98	121.42
1	h	81	ASP	N-CA-C	5.14	117.78	111.82
1	1	29	GLU	O-C-N	-5.14	115.48	122.36
1	1	103	ASP	CA-C-O	-5.14	115.43	120.82
1	o	30	LYS	CA-C-N	5.14	129.48	122.34
1	o	30	LYS	C-N-CA	5.14	129.48	122.34
1	v	74	ASN	CA-C-O	5.14	125.99	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	S	66	MET	N-CA-C	5.14	116.88	111.28
1	g8	100	ARG	O-C-N	-5.13	117.00	122.85
1	gc	142	VAL	N-CA-CB	5.13	117.14	110.57
1	gd	42	ALA	N-CA-C	5.13	116.88	111.28
1	gi	126	VAL	CA-CB-CG1	-5.13	101.67	110.40
1	gj	119	THR	CA-CB-OG1	5.13	117.30	109.60
1	gj	151	LEU	O-C-N	-5.13	116.68	122.12
1	gl	50	GLN	N-CA-CB	-5.13	102.56	110.01
1	gt	221	VAL	CA-C-N	5.13	131.47	121.41
1	gt	221	VAL	C-N-CA	5.13	131.47	121.41
1	gy	192	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	gK	199	LYS	CB-CA-C	-5.13	102.27	110.79
1	1F	51	ASP	CA-C-N	5.13	127.12	120.44
1	1F	51	ASP	C-N-CA	5.13	127.12	120.44
1	gP	171	THR	CA-C-N	5.13	130.12	121.14
1	gP	171	THR	C-N-CA	5.13	130.12	121.14
1	gP	178	SER	N-CA-CB	5.13	117.10	109.19
1	gY	100	ARG	NE-CZ-NH1	5.13	126.64	121.50
1	hi	133	TRP	O-C-N	-5.13	116.78	122.07
1	ht	38	PRO	CA-C-O	-5.13	111.75	119.55
1	hv	208	ALA	CA-C-N	5.13	128.06	120.82
1	hv	208	ALA	C-N-CA	5.13	128.06	120.82
1	hA	215	MET	CA-C-O	5.13	125.88	119.97
1	hQ	120	HIS	CA-CB-CG	5.13	118.94	113.80
1	hX	104	ILE	CA-C-O	-5.13	115.61	120.95
1	i2	129	ILE	N-CA-CB	5.13	117.14	110.57
1	1O	203	LYS	N-CA-CB	5.13	117.46	110.01
1	if	13	GLN	CA-C-O	5.13	126.56	120.66
1	im	18	ARG	N-CA-C	5.13	116.88	111.28
1	iq	195	ASN	N-CA-CB	-5.13	102.90	110.14
1	iy	49	PRO	N-CA-C	5.13	121.40	113.75
1	iF	160	PRO	O-C-N	-5.13	115.71	122.64
1	1R	68	MET	CA-C-N	5.13	127.16	120.28
1	1R	68	MET	C-N-CA	5.13	127.16	120.28
1	1R	201	ILE	N-CA-C	5.13	115.86	110.62
1	1S	100	ARG	CA-C-N	5.13	125.78	120.03
1	1S	100	ARG	C-N-CA	5.13	125.78	120.03
1	1S	195	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	j1	37	ILE	CA-C-O	5.13	122.13	118.69
1	jb	228	ALA	CA-C-N	5.13	131.20	122.37
1	jb	228	ALA	C-N-CA	5.13	131.20	122.37
1	jc	71	GLU	O-C-N	-5.13	116.30	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	177	ALA	N-CA-C	5.13	117.33	110.35
1	jm	214	MET	N-CA-CB	5.13	117.76	110.16
1	jn	159	GLU	CA-C-O	5.13	126.52	120.41
1	1W	225	GLY	CA-C-N	5.13	127.93	120.79
1	1W	225	GLY	C-N-CA	5.13	127.93	120.79
1	jC	44	SER	N-CA-C	-5.13	107.18	112.93
1	jC	84	HIS	CA-C-N	5.13	126.26	119.84
1	jC	84	HIS	C-N-CA	5.13	126.26	119.84
1	1Y	216	THR	CB-CA-C	-5.13	101.88	110.56
1	jS	157	PRO	CB-CA-C	-5.13	104.85	112.55
1	jV	148	THR	N-CA-C	5.13	116.87	109.07
1	k1	77	ALA	O-C-N	5.13	127.56	122.12
1	k6	74	ASN	O-C-N	-5.13	115.56	122.23
1	k9	70	LYS	CA-C-O	-5.13	115.43	120.82
1	ka	18	ARG	NH1-CZ-NH2	5.13	125.98	119.30
1	ki	86	VAL	CA-C-N	5.13	128.16	120.87
1	ki	86	VAL	C-N-CA	5.13	128.16	120.87
1	kw	188	THR	N-CA-CB	5.13	119.17	110.49
1	kz	72	THR	N-CA-CB	5.13	117.45	110.01
1	kE	167	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	kG	192	GLN	N-CA-C	5.13	117.27	111.11
1	kN	64	ALA	N-CA-C	5.13	116.96	111.36
1	li	104	ILE	N-CA-C	5.13	115.36	110.53
1	lk	15	ILE	N-CA-C	5.13	115.72	109.30
1	lp	183	ASN	N-CA-C	5.13	116.56	111.07
1	lq	21	ASN	CA-C-N	5.13	127.16	120.28
1	lq	21	ASN	C-N-CA	5.13	127.16	120.28
1	28	211	LEU	CA-C-N	5.13	127.16	120.28
1	28	211	LEU	C-N-CA	5.13	127.16	120.28
1	lz	151	LEU	CA-C-O	5.13	125.68	119.31
1	lE	189	LEU	CA-C-N	5.13	127.93	120.79
1	lE	189	LEU	C-N-CA	5.13	127.93	120.79
1	lK	184	TRP	CD2-CE2-CZ2	-5.13	117.27	122.40
1	lL	186	THR	OG1-CB-CG2	-5.13	99.03	109.30
1	lO	23	TRP	N-CA-C	5.13	116.88	111.28
1	2k	229	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	2r	22	ALA	CA-C-N	5.13	127.11	120.44
1	2r	22	ALA	C-N-CA	5.13	127.11	120.44
1	2r	120	HIS	N-CA-CB	-5.13	103.10	110.44
1	2v	26	VAL	N-CA-CB	5.13	116.56	110.55
1	2w	128	GLU	CA-C-N	5.13	127.03	120.56
1	2w	128	GLU	C-N-CA	5.13	127.03	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2y	73	ILE	CA-C-N	5.13	127.16	120.28
1	2y	73	ILE	C-N-CA	5.13	127.16	120.28
1	2F	196	PRO	CA-C-N	5.13	127.58	120.29
1	2F	196	PRO	C-N-CA	5.13	127.58	120.29
1	2I	114	GLN	CA-C-N	5.13	127.03	120.56
1	2I	114	GLN	C-N-CA	5.13	127.03	120.56
1	2L	25	LYS	CA-CB-CG	5.13	124.37	114.10
1	2M	154	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	2Q	134	ILE	N-CA-CB	5.13	116.56	110.55
1	2V	198	CYS	CA-C-N	5.13	127.41	120.38
1	2V	198	CYS	C-N-CA	5.13	127.41	120.38
1	31	163	ASP	CA-CB-CG	5.13	117.73	112.60
1	33	154	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	34	76	GLU	N-CA-C	5.13	116.88	111.28
1	3c	144	MET	CG-SD-CE	-5.13	89.60	100.90
1	3d	171	THR	CA-C-O	5.13	125.68	119.11
1	3n	84	HIS	CA-C-N	5.13	125.13	119.89
1	3n	84	HIS	C-N-CA	5.13	125.13	119.89
1	3n	84	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	3q	170	LYS	O-C-N	5.13	127.64	122.09
1	3s	21	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	3s	117	TRP	CA-C-N	5.13	127.58	120.29
1	3s	117	TRP	C-N-CA	5.13	127.58	120.29
1	3y	176	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	3z	91	ILE	CA-CB-CG1	5.13	119.13	110.40
1	3A	107	THR	O-C-N	-5.13	115.56	122.23
1	3B	9	GLN	O-C-N	-5.13	116.80	122.91
1	3K	79	GLU	N-CA-C	5.13	116.88	111.28
1	3M	95	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	3R	107	THR	OG1-CB-CG2	-5.13	99.03	109.30
1	3U	75	GLU	CA-C-N	5.13	127.58	120.29
1	3U	75	GLU	C-N-CA	5.13	127.58	120.29
1	3U	132	ARG	CA-C-N	5.13	127.16	120.28
1	3U	132	ARG	C-N-CA	5.13	127.16	120.28
1	3Z	81	ASP	CA-C-O	-5.13	115.43	120.82
1	45	169	TYR	CA-C-N	5.13	127.16	120.28
1	45	169	TYR	C-N-CA	5.13	127.16	120.28
1	47	120	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	4d	154	ARG	CD-NE-CZ	-5.13	117.21	124.40
1	4f	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	4k	181	VAL	O-C-N	-5.13	116.89	121.87
1	4l	168	PHE	N-CA-C	5.13	116.56	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4m	31	ALA	CA-C-O	5.13	127.85	120.51
1	4y	147	PRO	CA-C-N	5.13	128.62	121.02
1	4y	147	PRO	C-N-CA	5.13	128.62	121.02
1	4D	115	ILE	N-CA-C	5.13	115.86	110.62
1	4E	109	SER	CB-CA-C	5.13	119.18	109.37
1	4X	136	LEU	CA-C-O	5.13	125.99	120.55
1	4X	229	ARG	N-CA-C	5.13	117.33	110.35
1	54	1	PRO	CA-N-CD	-5.13	104.81	112.00
1	55	99	PRO	N-CA-C	5.13	118.94	111.03
1	5d	81	ASP	N-CA-C	5.13	118.70	112.23
1	5g	121	ASN	CB-CG-ND2	5.13	124.10	116.40
1	5j	137	GLY	N-CA-C	5.13	118.85	112.64
1	5s	53	ASN	CA-C-N	5.13	127.16	120.28
1	5s	53	ASN	C-N-CA	5.13	127.16	120.28
1	5x	145	TYR	N-CA-C	5.13	118.80	112.54
1	5A	19	THR	OG1-CB-CG2	-5.13	99.03	109.30
1	5G	150	ILE	N-CA-CB	5.13	117.52	110.54
1	5N	141	ILE	N-CA-C	5.13	115.35	110.42
1	5O	97	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	5Q	192	GLN	N-CA-C	5.13	116.88	111.28
1	5S	25	LYS	CA-C-N	5.13	127.50	120.46
1	5S	25	LYS	C-N-CA	5.13	127.50	120.46
1	5U	3	VAL	CA-C-N	5.13	129.84	122.35
1	5U	3	VAL	C-N-CA	5.13	129.84	122.35
1	6k	100	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	6n	119	THR	N-CA-CB	5.13	117.46	110.01
1	6r	83	LEU	N-CA-C	5.13	116.56	111.07
1	6x	74	ASN	CB-CG-ND2	-5.13	108.70	116.40
1	6A	40	PHE	CA-C-N	5.13	127.16	120.28
1	6A	40	PHE	C-N-CA	5.13	127.16	120.28
1	6A	145	TYR	CA-C-N	5.13	127.78	120.49
1	6A	145	TYR	C-N-CA	5.13	127.78	120.49
1	6A	216	THR	CA-CB-CG2	5.13	119.23	110.50
1	6H	169	TYR	N-CA-C	5.13	116.88	111.28
1	6J	132	ARG	N-CA-C	5.13	116.88	111.28
1	6Q	142	VAL	N-CA-C	5.13	115.75	110.36
1	6R	73	ILE	O-C-N	-5.13	116.88	121.91
1	6Y	195	ASN	N-CA-C	5.13	116.87	109.48
1	7f	200	THR	CA-C-O	5.13	125.99	120.55
1	7y	115	ILE	N-CA-C	-5.13	105.36	112.50
1	7K	219	GLN	O-C-N	-5.13	116.95	123.01
1	7T	42	ALA	O-C-N	-5.13	116.68	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Y	86	VAL	N-CA-C	5.13	116.30	109.37
1	81	131	LYS	N-CA-C	5.13	116.88	111.28
1	87	214	MET	N-CA-CB	5.13	117.67	110.12
1	8h	14	ALA	CA-C-N	5.13	127.38	120.50
1	8h	14	ALA	C-N-CA	5.13	127.38	120.50
1	8p	210	THR	O-C-N	-5.13	117.73	123.48
1	8x	23	TRP	N-CA-C	5.13	117.27	111.11
1	8H	19	THR	N-CA-CB	5.13	117.46	110.01
1	8Y	16	SER	CA-C-N	5.13	124.93	119.28
1	8Y	16	SER	C-N-CA	5.13	124.93	119.28
1	90	119	THR	CA-C-N	5.13	129.55	120.87
1	90	119	THR	C-N-CA	5.13	129.55	120.87
1	97	229	ARG	CA-C-O	5.13	125.90	120.36
1	9e	159	GLU	CB-CG-CD	-5.13	103.87	112.60
1	9i	64	ALA	N-CA-CB	5.13	117.45	110.01
1	9y	136	LEU	O-C-N	-5.13	116.68	122.12
1	9F	148	THR	N-CA-CB	5.13	118.41	110.60
1	9J	192	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	9L	31	ALA	CA-C-O	5.13	125.68	119.11
1	9O	167	ARG	CA-C-N	5.13	127.42	120.44
1	9O	167	ARG	C-N-CA	5.13	127.42	120.44
1	9R	178	SER	CA-C-N	5.13	127.16	120.28
1	9R	178	SER	C-N-CA	5.13	127.16	120.28
1	9W	185	MET	CG-SD-CE	-5.13	89.60	100.90
1	a2	198	CYS	N-CA-CB	5.13	117.67	110.12
1	ag	47	ALA	O-C-N	-5.13	117.16	122.96
1	ag	170	LYS	CA-C-N	5.13	127.16	120.28
1	ag	170	LYS	C-N-CA	5.13	127.16	120.28
1	am	65	ALA	CA-C-O	-5.13	114.98	120.42
1	aq	69	LEU	CA-C-N	5.13	127.67	120.28
1	aq	69	LEU	C-N-CA	5.13	127.67	120.28
1	av	36	VAL	O-C-N	-5.13	116.56	121.90
1	ax	200	THR	CA-C-O	5.13	125.86	120.42
1	aB	100	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	aQ	10	MET	N-CA-CB	5.13	119.17	110.49
1	aR	6	LEU	CB-CA-C	5.13	118.61	111.63
1	aT	80	TRP	O-C-N	-5.13	116.68	122.12
1	aY	154	ARG	N-CA-CB	-5.13	102.75	111.69
1	b9	226	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	bj	84	HIS	CA-CB-CG	-5.13	108.67	113.80
1	bn	155	GLN	CA-C-N	5.13	127.93	121.36
1	bn	155	GLN	C-N-CA	5.13	127.93	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bx	130	TYR	N-CA-CB	5.13	117.59	109.94
1	bB	222	GLY	O-C-N	-5.13	117.89	122.77
1	bI	94	GLY	CA-C-O	5.13	124.46	119.27
1	bT	190	LEU	N-CA-C	5.13	116.88	111.28
1	bU	170	LYS	N-CA-CB	-5.13	102.36	110.06
1	bY	70	LYS	O-C-N	5.13	127.56	122.12
1	bY	150	ILE	CA-C-N	5.13	127.16	120.28
1	bY	150	ILE	C-N-CA	5.13	127.16	120.28
1	c0	214	MET	N-CA-CB	5.13	117.67	110.12
1	c6	136	LEU	CA-C-N	5.13	125.68	119.98
1	c6	136	LEU	C-N-CA	5.13	125.68	119.98
1	cc	192	GLN	N-CA-C	5.13	117.78	111.82
1	1d	5	ASN	CA-CB-CG	5.13	117.73	112.60
1	ci	13	GLN	O-C-N	5.13	128.91	123.42
1	co	75	GLU	CB-CA-C	-5.13	102.27	110.79
1	cr	194	ALA	O-C-N	-5.13	116.80	122.86
1	ct	193	ASN	CB-CG-OD1	5.13	131.07	120.80
1	cu	214	MET	CB-CA-C	5.13	119.31	110.79
1	1f	1	PRO	CA-N-CD	-5.13	104.81	112.00
1	cI	23	TRP	N-CA-C	5.13	116.56	111.07
1	d2	146	SER	O-C-N	-5.13	115.67	120.55
1	d3	134	ILE	CB-CA-C	5.13	118.45	111.88
1	da	132	ARG	CB-CG-CD	5.13	123.11	111.30
1	de	114	GLN	CA-C-N	5.13	127.50	120.46
1	de	114	GLN	C-N-CA	5.13	127.50	120.46
1	dr	5	ASN	CB-CA-C	5.13	119.62	109.66
1	1l	187	GLU	N-CA-C	5.13	116.96	111.36
1	dG	119	THR	CA-C-N	5.13	131.35	121.54
1	dG	119	THR	C-N-CA	5.13	131.35	121.54
1	dO	221	VAL	CA-C-N	5.13	128.89	121.44
1	dO	221	VAL	C-N-CA	5.13	128.89	121.44
1	e0	53	ASN	CA-C-O	-5.13	115.41	120.90
1	e0	62	HIS	N-CA-C	5.13	118.67	111.74
1	e6	210	THR	CA-CB-CG2	-5.13	101.77	110.50
1	ej	180	GLU	N-CA-C	5.13	119.84	111.37
1	en	141	ILE	CA-C-N	5.13	127.03	120.56
1	en	141	ILE	C-N-CA	5.13	127.03	120.56
1	eA	74	ASN	CA-C-N	5.13	127.11	120.44
1	eA	74	ASN	C-N-CA	5.13	127.11	120.44
1	eD	187	GLU	N-CA-C	5.13	118.70	112.23
1	eO	195	ASN	N-CA-C	5.13	115.89	109.57
1	eQ	83	LEU	N-CA-C	5.13	116.88	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	150	ILE	CA-CB-CG2	5.13	119.23	110.50
1	eV	21	ASN	O-C-N	5.13	128.00	122.15
1	f0	110	THR	N-CA-CB	5.13	119.52	111.20
1	f0	144	MET	CA-C-N	5.13	130.12	121.14
1	f0	144	MET	C-N-CA	5.13	130.12	121.14
1	f1	33	SER	N-CA-C	5.13	117.45	110.01
1	f2	141	ILE	O-C-N	-5.13	116.88	121.91
1	f9	159	GLU	N-CA-C	5.13	116.87	109.48
1	fv	73	ILE	N-CA-C	5.13	116.47	110.62
1	fx	115	ILE	CA-CB-CG1	5.13	119.13	110.40
1	fE	108	THR	CA-C-O	5.13	125.29	119.18
1	fL	25	LYS	CG-CD-CE	5.13	123.11	111.30
1	1A	103	ASP	CA-C-N	5.13	127.77	120.53
1	1A	103	ASP	C-N-CA	5.13	127.77	120.53
1	g0	165	VAL	CA-C-O	5.13	126.75	121.05
1	0	195	ASN	N-CA-CB	-5.13	102.90	110.14
1	z	178	SER	CB-CA-C	-5.13	100.09	109.54
1	S	65	ALA	CA-C-O	-5.13	115.11	120.55
1	g9	156	GLY	CA-C-N	5.13	125.42	119.47
1	g9	156	GLY	C-N-CA	5.13	125.42	119.47
1	ge	55	MET	CG-SD-CE	-5.13	89.61	100.90
1	gf	4	GLN	CB-CG-CD	5.13	121.33	112.60
1	gC	70	LYS	N-CA-C	5.13	118.80	112.54
1	gQ	195	ASN	CB-CA-C	5.13	117.63	109.52
1	1G	132	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	gW	105	ALA	O-C-N	-5.13	115.38	122.46
1	h2	226	HIS	N-CA-CB	5.13	117.45	110.01
1	h8	77	ALA	CA-C-N	5.13	127.16	120.28
1	h8	77	ALA	C-N-CA	5.13	127.16	120.28
1	h9	133	TRP	CA-C-O	5.13	125.87	119.97
1	hg	58	THR	N-CA-CB	5.13	117.64	110.56
1	hQ	224	PRO	N-CA-CB	5.13	107.88	103.31
1	i3	208	ALA	CA-C-N	5.13	128.00	120.71
1	i3	208	ALA	C-N-CA	5.13	128.00	120.71
1	io	158	LYS	N-CA-C	-5.13	106.42	113.30
1	ip	154	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	ix	191	VAL	CA-C-N	5.13	127.67	120.28
1	ix	191	VAL	C-N-CA	5.13	127.67	120.28
1	iI	154	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	iL	139	ASN	CB-CA-C	-5.13	102.82	110.88
1	iR	165	VAL	CA-C-O	5.13	126.01	120.47
1	j3	179	GLN	CA-C-N	5.13	127.11	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j3	179	GLN	C-N-CA	5.13	127.11	120.44
1	j4	221	VAL	N-CA-C	5.13	115.86	110.62
1	j7	20	LEU	CA-C-O	5.13	126.21	120.82
1	ja	102	SER	O-C-N	-5.13	115.96	122.27
1	jk	31	ALA	CA-C-N	-5.13	115.59	122.42
1	jk	31	ALA	C-N-CA	-5.13	115.59	122.42
1	jX	198	CYS	N-CA-C	-5.13	107.68	114.04
1	kJ	103	ASP	N-CA-C	-5.13	106.53	112.89
1	kM	87	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	kR	7	GLN	OE1-CD-NE2	5.13	127.73	122.60
1	l2	97	ARG	N-CA-CB	5.13	117.60	110.26
1	l4	14	ALA	N-CA-C	5.13	117.15	110.53
1	l7	103	ASP	N-CA-C	5.13	116.56	111.07
1	lb	63	GLN	N-CA-C	5.13	117.61	111.71
1	ld	162	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	lo	20	LEU	CA-C-N	5.13	127.11	120.44
1	lo	20	LEU	C-N-CA	5.13	127.11	120.44
1	lo	53	ASN	N-CA-CB	5.13	118.23	110.28
1	lp	172	LEU	CA-C-O	5.13	125.68	119.11
1	lq	177	ALA	CA-C-O	5.13	127.85	120.51
1	2f	29	GLU	CA-C-O	-5.13	113.61	119.41
1	2q	58	THR	N-CA-C	5.13	119.18	113.02
1	2r	185	MET	CG-SD-CE	-5.13	89.61	100.90
1	2s	143	ARG	O-C-N	-5.13	116.68	122.12
1	2y	84	HIS	N-CA-C	5.13	117.72	109.15
1	2A	82	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	2A	141	ILE	CB-CA-C	-5.13	103.94	112.26
1	2E	214	MET	CG-SD-CE	-5.13	89.61	100.90
1	38	117	TRP	CE2-CD2-CE3	5.13	123.93	118.80
1	3a	107	THR	CA-CB-OG1	5.13	117.30	109.60
1	3d	126	VAL	CA-C-O	5.13	126.29	120.85
1	3d	198	CYS	CA-C-O	5.13	125.99	120.55
1	3g	59	VAL	CA-C-O	-5.13	114.36	120.78
1	3h	76	GLU	N-CA-C	5.13	117.61	111.71
1	3j	6	LEU	N-CA-C	5.13	118.81	112.24
1	3o	38	PRO	CA-C-N	5.13	127.58	120.29
1	3o	38	PRO	C-N-CA	5.13	127.58	120.29
1	3r	32	PHE	CA-C-O	5.13	126.38	120.84
1	3B	148	THR	N-CA-CB	5.13	119.17	110.49
1	41	210	THR	CA-C-O	-5.13	115.66	121.72
1	47	33	SER	CA-C-O	-5.13	115.56	120.64
1	48	4	GLN	CB-CG-CD	5.13	121.33	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4a	124	ILE	N-CA-CB	5.13	117.86	111.39
1	4e	8	GLY	O-C-N	-5.13	116.66	122.56
1	4g	77	ALA	CA-C-N	5.13	127.11	120.44
1	4g	77	ALA	C-N-CA	5.13	127.11	120.44
1	4s	97	ARG	O-C-N	-5.13	116.74	122.75
1	4N	80	TRP	CB-CG-CD2	5.13	133.99	126.80
1	4T	219	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	4Y	74	ASN	N-CA-CB	-5.13	102.32	110.28
1	5c	195	ASN	CB-CA-C	5.13	120.28	110.17
1	5e	61	GLY	CA-C-N	5.13	129.41	122.07
1	5e	61	GLY	C-N-CA	5.13	129.41	122.07
1	5f	54	THR	CA-C-O	-5.13	115.11	120.55
1	5m	13	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	6s	131	LYS	N-CA-C	5.13	116.88	111.28
1	6E	98	GLU	N-CA-CB	5.13	117.60	110.11
1	6X	171	THR	CA-C-N	5.13	132.58	122.31
1	6X	171	THR	C-N-CA	5.13	132.58	122.31
1	7l	169	TYR	N-CA-C	5.13	116.88	111.28
1	7t	206	GLY	CA-C-N	5.13	125.11	120.03
1	7t	206	GLY	C-N-CA	5.13	125.11	120.03
1	7S	2	ILE	CA-C-N	5.13	129.79	123.12
1	7S	2	ILE	C-N-CA	5.13	129.79	123.12
1	81	170	LYS	O-C-N	5.13	127.56	122.12
1	8j	143	ARG	N-CA-C	5.13	118.80	112.54
1	8F	51	ASP	CB-CA-C	-5.13	102.82	110.88
1	8M	171	THR	CA-C-N	5.13	127.16	120.28
1	8M	171	THR	C-N-CA	5.13	127.16	120.28
1	8Q	189	LEU	CA-C-N	5.13	129.35	121.19
1	8Q	189	LEU	C-N-CA	5.13	129.35	121.19
1	93	198	CYS	CA-C-N	5.13	127.16	120.28
1	93	198	CYS	C-N-CA	5.13	127.16	120.28
1	a7	69	LEU	CA-C-N	5.13	127.11	120.44
1	a7	69	LEU	C-N-CA	5.13	127.11	120.44
1	ao	168	PHE	CA-CB-CG	-5.13	108.67	113.80
1	au	57	ASN	CA-C-O	5.13	125.69	119.38
1	aw	61	GLY	N-CA-C	5.13	120.36	112.51
1	ay	117	TRP	CB-CA-C	-5.13	101.13	110.63
1	aP	188	THR	O-C-N	-5.13	115.76	122.59
1	15	91	ILE	O-C-N	-5.13	115.04	122.12
1	b2	20	LEU	N-CA-C	5.13	117.27	111.11
1	ba	87	HIS	CB-CG-ND1	5.13	130.40	122.70
1	bf	87	HIS	ND1-CE1-NE2	5.13	113.53	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bl	179	GLN	CA-C-O	5.13	125.90	120.10
1	bz	116	GLY	N-CA-C	-5.13	106.43	112.64
1	bI	135	ILE	CA-CB-CG2	5.13	119.23	110.50
1	bM	137	GLY	CA-C-N	5.13	127.16	120.28
1	bM	137	GLY	C-N-CA	5.13	127.16	120.28
1	c0	25	LYS	CA-C-O	5.13	125.99	120.55
1	c4	143	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	cd	118	MET	CB-CG-SD	5.13	128.10	112.70
1	cn	159	GLU	N-CA-C	5.13	117.73	110.24
1	cp	86	VAL	N-CA-C	5.13	116.20	109.58
1	cq	22	ALA	N-CA-CB	-5.13	102.57	110.01
1	cs	195	ASN	CA-C-O	-5.13	114.92	119.75
1	cz	15	ILE	CA-C-O	5.13	126.72	121.23
1	cF	51	ASP	N-CA-C	5.13	116.56	111.07
1	cG	117	TRP	CA-C-O	-5.13	115.11	120.55
1	1g	52	LEU	O-C-N	-5.13	116.68	122.12
1	dc	210	THR	N-CA-CB	5.13	118.67	110.46
1	ds	64	ALA	N-CA-C	5.13	116.56	111.07
1	dz	165	VAL	CA-C-N	5.13	127.16	120.28
1	dz	165	VAL	C-N-CA	5.13	127.16	120.28
1	dD	154	ARG	O-C-N	-5.13	116.48	123.10
1	dR	94	GLY	CA-C-O	5.13	124.96	119.06
1	dV	151	LEU	O-C-N	-5.13	115.77	122.39
1	dX	80	TRP	CD2-CE2-CZ2	-5.13	117.27	122.40
1	ea	21	ASN	CA-CB-CG	-5.13	107.47	112.60
1	1p	165	VAL	N-CA-C	5.13	115.35	110.42
1	ew	62	HIS	N-CA-C	5.13	121.73	110.80
1	eE	143	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	eJ	229	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	eO	53	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	eQ	18	ARG	CA-C-O	5.13	125.86	120.42
1	1w	47	ALA	N-CA-C	5.13	117.66	109.96
1	fk	131	LYS	CA-C-N	5.13	127.16	120.28
1	fk	131	LYS	C-N-CA	5.13	127.16	120.28
1	fk	153	ILE	CA-C-O	5.13	126.80	120.74
1	1x	3	VAL	O-C-N	-5.13	117.33	123.03
1	fz	74	ASN	N-CA-C	5.13	116.56	111.07
1	fA	81	ASP	CA-C-N	5.13	130.42	122.26
1	fA	81	ASP	C-N-CA	5.13	130.42	122.26
1	fG	28	GLU	O-C-N	-5.13	116.78	122.07
1	fG	152	ASP	N-CA-C	5.13	119.39	113.18
1	fM	63	GLN	OE1-CD-NE2	-5.13	117.47	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l	126	VAL	CB-CA-C	5.13	118.54	111.97
1	E	167	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	J	4	GLN	O-C-N	5.13	129.03	123.13
1	N	25	LYS	CA-C-O	5.13	126.21	120.82
1	g9	113	GLU	CA-C-O	-5.13	114.07	119.97
1	gf	12	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	gg	198	CYS	CA-C-N	5.13	128.11	120.31
1	gg	198	CYS	C-N-CA	5.13	128.11	120.31
1	gg	224	PRO	N-CA-C	5.13	121.25	113.81
1	gi	45	GLU	CB-CG-CD	5.13	121.32	112.60
1	gj	81	ASP	CA-CB-CG	-5.13	107.47	112.60
1	go	185	MET	CA-C-O	5.13	126.17	120.63
1	gu	211	LEU	CA-C-N	5.13	127.16	120.28
1	gu	211	LEU	C-N-CA	5.13	127.16	120.28
1	gw	98	GLU	CB-CG-CD	5.13	121.32	112.60
1	gB	54	THR	CA-C-O	-5.13	115.11	120.55
1	gF	120	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	gH	27	VAL	CA-C-O	5.13	126.29	120.95
1	gJ	109	SER	N-CA-C	5.13	117.61	109.50
1	gQ	144	MET	N-CA-C	5.13	116.56	111.07
1	gZ	158	LYS	N-CA-CB	-5.13	103.11	110.65
1	h3	102	SER	CB-CA-C	-5.13	99.74	109.95
1	h5	201	ILE	CA-C-N	5.13	127.67	120.28
1	h5	201	ILE	C-N-CA	5.13	127.67	120.28
1	hj	14	ALA	CA-C-O	-5.13	115.55	121.19
1	hk	6	LEU	N-CA-CB	5.13	117.41	110.59
1	ho	39	MET	N-CA-C	5.13	116.56	111.07
1	hp	193	ASN	O-C-N	-5.13	115.29	122.37
1	1J	200	THR	N-CA-CB	5.13	117.75	110.16
1	hB	230	VAL	O-C-N	-5.13	117.02	122.61
1	hE	183	ASN	CA-CB-CG	-5.13	107.47	112.60
1	i3	23	TRP	CD2-CE2-CZ2	-5.13	117.27	122.40
1	i7	63	GLN	O-C-N	-5.13	115.38	122.46
1	i8	16	SER	CA-C-O	-5.13	115.00	120.23
1	ib	44	SER	CA-C-O	5.13	124.79	119.97
1	ic	206	GLY	CA-C-N	5.13	125.14	119.90
1	ic	206	GLY	C-N-CA	5.13	125.14	119.90
1	ik	90	PRO	CA-C-N	5.13	128.24	120.75
1	ik	90	PRO	C-N-CA	5.13	128.24	120.75
1	im	5	ASN	N-CA-CB	5.13	118.08	110.49
1	im	213	GLU	CA-C-N	5.13	127.67	120.28
1	im	213	GLU	C-N-CA	5.13	127.67	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iB	162	ARG	O-C-N	-5.13	116.75	122.09
1	iG	34	PRO	N-CA-CB	5.13	109.05	103.30
1	iN	195	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	1S	32	PHE	CA-C-O	-5.13	114.79	120.38
1	iT	133	TRP	CA-C-N	5.13	127.22	120.60
1	iT	133	TRP	C-N-CA	5.13	127.22	120.60
1	j0	193	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	j4	114	GLN	N-CA-C	5.13	116.87	111.28
1	j4	216	THR	N-CA-CB	5.13	118.08	110.49
1	ji	139	ASN	CB-CG-ND2	5.13	124.10	116.40
1	jj	152	ASP	CA-C-N	5.13	127.45	120.63
1	jj	152	ASP	C-N-CA	5.13	127.45	120.63
1	jq	52	LEU	CA-C-N	5.13	127.16	120.28
1	jq	52	LEU	C-N-CA	5.13	127.16	120.28
1	ju	140	LYS	N-CA-C	5.13	116.87	111.28
1	jD	63	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	k6	67	GLN	N-CA-CB	5.13	117.76	110.16
1	kj	190	LEU	CA-C-O	-5.13	114.98	120.42
1	kl	69	LEU	CB-CA-C	5.13	118.94	110.88
1	km	21	ASN	CA-CB-CG	5.13	117.73	112.60
1	kA	55	MET	CG-SD-CE	-5.13	89.61	100.90
1	kI	215	MET	CA-C-O	-5.13	114.30	120.10
1	kJ	42	ALA	N-CA-CB	-5.13	102.56	110.16
1	kK	88	ALA	O-C-N	-5.13	116.90	123.06
1	kN	212	GLU	N-CA-C	5.13	117.54	111.33
1	kO	76	GLU	CA-C-O	5.13	125.67	119.31
1	kQ	184	TRP	N-CA-C	5.13	116.56	111.07
1	kR	159	GLU	CA-C-N	5.13	125.12	119.89
1	kR	159	GLU	C-N-CA	5.13	125.12	119.89
1	kR	212	GLU	O-C-N	5.13	127.43	122.09
1	kY	112	GLN	CA-C-N	5.13	127.58	120.29
1	kY	112	GLN	C-N-CA	5.13	127.58	120.29
1	l8	151	LEU	CA-C-O	5.13	125.67	119.31
1	l8	167	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	la	115	ILE	CA-CB-CG1	5.13	119.12	110.40
1	lh	106	GLY	CA-C-N	5.13	127.11	120.44
1	lh	106	GLY	C-N-CA	5.13	127.11	120.44
1	lt	162	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	lx	229	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	ly	214	MET	CA-C-N	5.13	127.16	120.28
1	ly	214	MET	C-N-CA	5.13	127.16	120.28
1	lB	40	PHE	N-CA-CB	5.13	117.45	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lB	213	GLU	CA-C-N	5.13	127.58	120.29
1	lB	213	GLU	C-N-CA	5.13	127.58	120.29
1	lG	206	GLY	CA-C-N	5.13	124.82	119.64
1	lG	206	GLY	C-N-CA	5.13	124.82	119.64
1	2y	64	ALA	CA-C-O	5.13	126.21	120.82
1	2K	141	ILE	O-C-N	-5.13	116.89	121.87
1	2L	180	GLU	N-CA-C	5.13	119.84	111.37
1	3e	65	ALA	CA-C-N	-5.13	113.77	120.44
1	3e	65	ALA	C-N-CA	-5.13	113.77	120.44
1	3f	1	PRO	CB-CA-C	5.13	119.85	110.10
1	3o	70	LYS	CA-C-N	5.13	127.11	120.44
1	3o	70	LYS	C-N-CA	5.13	127.11	120.44
1	3o	111	LEU	N-CA-C	5.13	117.54	111.33
1	3t	120	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	3x	117	TRP	CD2-CE2-CZ2	-5.13	117.27	122.40
1	3z	60	GLY	CA-C-N	5.13	127.89	121.83
1	3z	60	GLY	C-N-CA	5.13	127.89	121.83
1	3P	185	MET	CA-C-N	5.13	127.16	120.28
1	3P	185	MET	C-N-CA	5.13	127.16	120.28
1	3T	221	VAL	N-CA-C	5.13	120.01	109.34
1	3X	186	THR	O-C-N	-5.13	115.38	122.46
1	4b	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	4h	203	LYS	CB-CA-C	-5.13	102.13	110.85
1	4C	64	ALA	N-CA-C	5.13	117.61	111.71
1	4C	155	GLN	N-CA-CB	5.13	117.90	109.95
1	4G	175	GLU	N-CA-C	5.13	117.18	109.23
1	4S	203	LYS	CA-C-N	5.13	127.16	120.28
1	4S	203	LYS	C-N-CA	5.13	127.16	120.28
1	4T	43	LEU	CA-C-N	5.13	130.71	122.86
1	4T	43	LEU	C-N-CA	5.13	130.71	122.86
1	51	100	ARG	CB-CG-CD	5.13	123.10	111.30
1	59	155	GLN	CB-CG-CD	5.13	121.32	112.60
1	5k	10	MET	CG-SD-CE	-5.13	89.61	100.90
1	5p	153	ILE	N-CA-CB	5.13	120.32	111.39
1	5v	120	HIS	O-C-N	-5.13	116.75	122.75
1	5B	111	LEU	CA-C-O	5.13	125.99	120.55
1	5L	59	VAL	CB-CA-C	-5.13	105.76	111.35
1	5N	206	GLY	N-CA-C	5.13	122.81	112.34
1	5R	90	PRO	N-CD-CG	-5.13	95.50	103.20
1	65	132	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	68	62	HIS	CA-C-N	5.13	128.11	120.31
1	68	62	HIS	C-N-CA	5.13	128.11	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6a	89	GLY	CA-C-N	5.13	126.25	119.84
1	6a	89	GLY	C-N-CA	5.13	126.25	119.84
1	6d	79	GLU	N-CA-C	5.13	116.87	111.28
1	6e	58	THR	CA-CB-CG2	5.13	119.22	110.50
1	6h	73	ILE	N-CA-CB	5.13	118.28	110.58
1	6o	74	ASN	CA-C-N	5.13	127.16	120.28
1	6o	74	ASN	C-N-CA	5.13	127.16	120.28
1	6t	59	VAL	CB-CA-C	-5.13	103.68	111.69
1	6w	11	VAL	O-C-N	-5.13	117.66	123.20
1	6x	70	LYS	CA-C-N	5.13	127.47	120.54
1	6x	70	LYS	C-N-CA	5.13	127.47	120.54
1	6z	88	ALA	CA-C-N	5.13	129.93	121.87
1	6z	88	ALA	C-N-CA	5.13	129.93	121.87
1	6G	153	ILE	CA-CB-CG1	5.13	119.12	110.40
1	6J	199	LYS	N-CA-C	5.13	116.87	111.28
1	6P	220	GLY	O-C-N	5.13	127.99	122.60
1	6T	216	THR	N-CA-C	5.13	116.87	111.28
1	6V	16	SER	CA-C-O	-5.13	114.71	120.25
1	6V	163	ASP	N-CA-CB	5.13	117.51	110.07
1	6Y	97	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	6Z	191	VAL	CA-C-N	5.13	128.50	120.75
1	6Z	191	VAL	C-N-CA	5.13	128.50	120.75
1	70	50	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	78	30	LYS	CA-C-O	5.13	124.69	119.05
1	7c	226	HIS	CA-C-O	5.13	125.04	119.24
1	7i	154	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	7m	220	GLY	N-CA-C	5.13	120.82	112.61
1	7p	162	ARG	O-C-N	-5.13	116.68	122.12
1	7y	51	ASP	O-C-N	-5.13	116.68	122.12
1	7G	148	THR	O-C-N	-5.13	117.23	123.03
1	7I	182	LYS	N-CA-CB	5.13	118.23	110.28
1	7K	184	TRP	N-CA-C	5.13	117.77	111.82
1	7K	230	VAL	CA-C-N	5.13	130.94	121.70
1	7K	230	VAL	C-N-CA	5.13	130.94	121.70
1	7M	44	SER	N-CA-C	-5.13	105.70	112.94
1	8i	149	SER	O-C-N	-5.13	115.77	122.59
1	8l	143	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	8n	206	GLY	O-C-N	-5.13	116.64	121.77
1	8p	226	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	8w	156	GLY	CA-C-O	-5.13	114.18	121.52
1	8B	148	THR	CA-C-N	5.13	131.04	122.73
1	8B	148	THR	C-N-CA	5.13	131.04	122.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	90	103	ASP	CB-CA-C	-5.13	102.27	110.79
1	93	93	PRO	CA-N-CD	-5.13	104.81	112.00
1	99	11	VAL	CA-CB-CG2	-5.13	101.68	110.40
1	9l	198	CYS	N-CA-C	-5.13	107.57	113.88
1	9u	57	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	9w	130	TYR	CA-C-N	5.13	127.16	120.28
1	9w	130	TYR	C-N-CA	5.13	127.16	120.28
1	9C	95	GLN	N-CA-C	-5.13	102.16	110.32
1	9E	3	VAL	N-CA-C	5.13	115.71	109.30
1	9M	164	TYR	N-CA-C	5.13	116.87	111.28
1	9N	229	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	9P	91	ILE	CA-C-N	5.13	128.48	120.68
1	9P	91	ILE	C-N-CA	5.13	128.48	120.68
1	9U	44	SER	N-CA-C	5.13	119.18	113.02
1	10	25	LYS	N-CA-C	5.13	117.61	111.71
1	10	230	VAL	N-CA-CB	-5.13	101.51	110.13
1	ab	195	ASN	O-C-N	-5.13	115.68	121.43
1	af	137	GLY	O-C-N	-5.13	117.27	122.19
1	ar	224	PRO	N-CA-C	5.13	119.14	111.14
1	13	190	LEU	O-C-N	5.13	127.56	122.12
1	aJ	118	MET	CA-C-O	5.13	125.87	119.97
1	aO	133	TRP	O-C-N	5.13	129.21	122.33
1	aS	49	PRO	N-CA-C	5.13	123.04	112.47
1	aT	18	ARG	CB-CA-C	5.13	119.57	110.85
1	aY	182	LYS	O-C-N	-5.13	116.75	122.09
1	b6	53	ASN	CA-C-N	5.13	127.16	120.28
1	b6	53	ASN	C-N-CA	5.13	127.16	120.28
1	b8	146	SER	O-C-N	-5.13	115.42	121.32
1	bf	118	MET	N-CA-C	5.13	117.77	111.82
1	bi	49	PRO	O-C-N	-5.13	116.34	122.24
1	bo	226	HIS	CA-C-O	5.13	125.00	119.15
1	bz	14	ALA	CA-C-O	-5.13	116.22	121.87
1	bB	105	ALA	O-C-N	-5.13	115.29	122.37
1	bC	139	ASN	CA-C-N	5.13	127.16	120.28
1	bC	139	ASN	C-N-CA	5.13	127.16	120.28
1	bD	150	ILE	CA-C-O	5.13	125.79	120.25
1	bE	50	GLN	CA-C-N	5.13	127.11	120.44
1	bE	50	GLN	C-N-CA	5.13	127.11	120.44
1	bR	223	GLY	CA-C-O	-5.13	114.18	121.52
1	c5	185	MET	CG-SD-CE	-5.13	89.61	100.90
1	c7	211	LEU	N-CA-C	5.13	116.87	111.28
1	ce	111	LEU	N-CA-CB	-5.13	102.58	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1d	170	LYS	O-C-N	-5.13	116.78	122.07
1	cr	163	ASP	CA-C-N	5.13	127.11	120.44
1	cr	163	ASP	C-N-CA	5.13	127.11	120.44
1	cu	123	PRO	N-CA-C	5.13	119.27	111.11
1	cB	93	PRO	N-CA-C	-5.13	107.94	114.35
1	cF	210	THR	N-CA-C	5.13	117.15	110.53
1	1g	72	THR	CA-C-N	5.13	127.71	120.42
1	1g	72	THR	C-N-CA	5.13	127.71	120.42
1	cR	191	VAL	CB-CA-C	-5.13	103.95	112.26
1	d0	89	GLY	CA-C-N	5.13	126.25	119.84
1	d0	89	GLY	C-N-CA	5.13	126.25	119.84
1	d5	86	VAL	N-CA-C	5.13	115.85	110.62
1	da	134	ILE	CA-C-N	5.13	127.49	120.46
1	da	134	ILE	C-N-CA	5.13	127.49	120.46
1	dh	75	GLU	N-CA-C	5.13	116.87	111.28
1	dl	48	THR	CA-C-N	5.13	126.25	119.84
1	dl	48	THR	C-N-CA	5.13	126.25	119.84
1	1k	68	MET	N-CA-C	5.13	117.27	111.11
1	dp	139	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	dq	86	VAL	CA-C-N	5.13	128.50	120.75
1	dq	86	VAL	C-N-CA	5.13	128.50	120.75
1	dt	111	LEU	N-CA-C	5.13	119.83	111.37
1	dt	117	TRP	CE2-CD2-CE3	5.13	123.93	118.80
1	dv	6	LEU	CA-C-N	5.13	130.86	122.65
1	dv	6	LEU	C-N-CA	5.13	130.86	122.65
1	dK	13	GLN	CA-C-O	5.13	126.74	120.99
1	dT	63	GLN	N-CA-C	5.13	117.54	111.33
1	e2	13	GLN	N-CA-C	-5.13	100.33	109.06
1	e5	78	ALA	N-CA-CB	-5.13	102.56	110.16
1	e8	164	TYR	CA-C-N	5.13	127.49	120.46
1	e8	164	TYR	C-N-CA	5.13	127.49	120.46
1	ef	41	SER	CA-C-N	5.13	127.11	120.44
1	ef	41	SER	C-N-CA	5.13	127.11	120.44
1	ek	202	LEU	O-C-N	-5.13	115.45	122.33
1	el	227	LYS	CA-C-O	5.13	125.84	119.12
1	et	150	ILE	N-CA-C	5.13	117.46	111.05
1	ev	198	CYS	N-CA-CB	-5.13	102.57	110.16
1	ez	221	VAL	N-CA-C	5.13	117.02	109.63
1	eA	142	VAL	N-CA-CB	5.13	116.56	110.55
1	1s	67	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	eI	71	GLU	O-C-N	-5.13	116.78	122.07
1	f0	201	ILE	CA-CB-CG1	5.13	119.12	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f5	11	VAL	CG1-CB-CG2	-5.13	99.51	110.80
1	f6	91	ILE	O-C-N	-5.13	117.08	122.67
1	fb	150	ILE	CA-CB-CG1	5.13	119.12	110.40
1	fN	41	SER	CA-C-N	5.13	127.16	120.28
1	fN	41	SER	C-N-CA	5.13	127.16	120.28
1	fX	182	LYS	O-C-N	-5.13	116.30	122.15
1	g5	228	ALA	CA-C-O	5.13	126.83	121.19
1	g7	78	ALA	CA-C-N	5.13	127.16	120.28
1	g7	78	ALA	C-N-CA	5.13	127.16	120.28
1	c	133	TRP	CB-CG-CD2	-5.13	119.61	126.80
1	f	140	LYS	N-CA-C	5.13	116.95	111.36
1	f	198	CYS	CA-C-O	-5.13	115.11	120.55
1	1	100	ARG	N-CA-C	5.13	117.48	110.55
1	q	173	ARG	O-C-N	5.13	127.63	122.09
1	F	230	VAL	O-C-N	-5.13	116.88	121.91
1	4	73	ILE	CA-C-O	-5.13	115.61	120.95
1	V	226	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	1C	185	MET	N-CA-C	5.13	117.54	111.33
1	gr	66	MET	N-CA-CB	5.13	117.51	110.07
1	gF	141	ILE	CA-C-N	5.13	127.49	120.46
1	gF	141	ILE	C-N-CA	5.13	127.49	120.46
1	hL	201	ILE	N-CA-C	5.13	117.50	111.09
1	hQ	55	MET	CA-C-N	5.13	127.16	120.28
1	hQ	55	MET	C-N-CA	5.13	127.16	120.28
1	hT	63	GLN	N-CA-C	5.13	117.77	111.82
1	i4	95	GLN	CG-CD-OE1	-5.13	110.54	120.80
1	id	24	VAL	CA-C-N	5.13	127.47	120.54
1	id	24	VAL	C-N-CA	5.13	127.47	120.54
1	1O	80	TRP	CB-CG-CD1	-5.13	119.20	126.90
1	io	50	GLN	N-CA-CB	5.13	117.75	110.16
1	iu	70	LYS	O-C-N	-5.13	116.68	122.12
1	iE	2	ILE	CA-C-O	5.13	125.31	119.92
1	iP	13	GLN	OE1-CD-NE2	5.13	127.73	122.60
1	iV	144	MET	O-C-N	-5.13	116.68	122.12
1	jb	161	PHE	CB-CG-CD1	-5.13	111.98	120.70
1	jo	128	GLU	CB-CG-CD	-5.13	103.88	112.60
1	js	135	ILE	N-CA-CB	5.13	117.14	110.57
1	jx	25	LYS	CA-C-O	5.13	125.99	120.55
1	jE	2	ILE	CA-C-O	5.13	127.53	121.02
1	jW	226	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	jZ	212	GLU	CA-C-N	5.13	127.15	120.28
1	jZ	212	GLU	C-N-CA	5.13	127.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ke	27	VAL	CA-C-N	5.13	127.11	120.44
1	ke	27	VAL	C-N-CA	5.13	127.11	120.44
1	kf	176	GLN	CB-CG-CD	5.13	121.32	112.60
1	kh	76	GLU	CA-C-N	5.13	127.15	120.28
1	kh	76	GLU	C-N-CA	5.13	127.15	120.28
1	kF	176	GLN	OE1-CD-NE2	5.13	127.73	122.60
1	kI	196	PRO	N-CA-C	5.13	123.04	112.47
1	kW	3	VAL	CA-C-N	5.13	128.63	121.24
1	kW	3	VAL	C-N-CA	5.13	128.63	121.24
1	lt	229	ARG	O-C-N	-5.13	116.35	123.12
1	lx	15	ILE	N-CA-C	5.13	117.02	109.63
1	ly	111	LEU	CD1-CG-CD2	-5.13	99.51	110.80
1	lJ	165	VAL	O-C-N	-5.13	116.86	121.89
1	lO	16	SER	CA-CB-OG	5.13	121.36	111.10
1	2q	145	TYR	N-CA-C	5.13	118.37	112.57
1	2t	74	ASN	N-CA-CB	5.13	117.45	110.01
1	2C	81	ASP	CA-C-O	-5.13	115.11	120.55
1	31	97	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	3x	203	LYS	N-CA-C	5.13	116.56	111.07
1	3B	161	PHE	N-CA-C	5.13	117.66	108.17
1	3O	143	ARG	CA-C-N	5.13	127.47	120.54
1	3O	143	ARG	C-N-CA	5.13	127.47	120.54
1	3V	16	SER	N-CA-C	5.13	116.34	109.83
1	3W	173	ARG	O-C-N	5.13	127.35	122.07
1	45	185	MET	CG-SD-CE	-5.13	89.61	100.90
1	4b	210	THR	N-CA-C	5.13	117.67	110.23
1	4d	214	MET	CA-C-O	5.13	125.99	120.55
1	4h	63	GLN	N-CA-C	5.13	117.77	111.82
1	4n	75	GLU	CA-C-O	5.13	126.21	120.82
1	4v	112	GLN	N-CA-C	5.13	116.87	111.28
1	4B	124	ILE	CB-CA-C	5.13	116.58	110.68
1	4S	17	PRO	O-C-N	-5.13	116.07	122.23
1	5e	138	LEU	O-C-N	-5.13	116.68	122.12
1	5Q	175	GLU	CB-CA-C	5.13	118.42	109.65
1	5R	74	ASN	N-CA-C	5.13	116.87	111.28
1	61	153	ILE	N-CA-C	5.13	120.01	109.34
1	6l	18	ARG	CA-C-N	5.13	127.16	120.28
1	6l	18	ARG	C-N-CA	5.13	127.16	120.28
1	6u	224	PRO	CA-C-N	5.13	126.80	120.34
1	6u	224	PRO	C-N-CA	5.13	126.80	120.34
1	6D	192	GLN	N-CA-C	5.13	119.25	112.89
1	6L	162	ARG	NH1-CZ-NH2	-5.13	112.63	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6Y	56	LEU	O-C-N	-5.13	116.68	122.12
1	75	230	VAL	N-CA-CB	5.13	117.92	111.46
1	7d	175	GLU	N-CA-CB	5.13	118.62	110.57
1	7h	69	LEU	O-C-N	5.13	127.56	122.12
1	7v	124	ILE	CB-CA-C	5.13	117.08	111.18
1	7z	132	ARG	N-CA-C	5.13	117.61	111.71
1	7B	1	PRO	CB-CA-C	5.13	119.85	110.10
1	7M	180	GLU	CA-C-N	5.13	127.02	120.56
1	7M	180	GLU	C-N-CA	5.13	127.02	120.56
1	7Q	158	LYS	CA-C-O	5.13	125.42	119.32
1	7T	107	THR	O-C-N	-5.13	115.38	122.30
1	8a	130	TYR	N-CA-C	-5.13	105.87	111.82
1	8m	187	GLU	CA-C-N	5.13	127.58	120.29
1	8m	187	GLU	C-N-CA	5.13	127.58	120.29
1	8r	176	GLN	CG-CD-NE2	5.13	124.09	116.40
1	8A	210	THR	N-CA-C	-5.13	102.60	110.14
1	93	96	MET	N-CA-C	5.13	117.66	109.96
1	94	87	HIS	CB-CG-CD2	5.13	137.87	131.20
1	9e	98	GLU	CA-C-N	5.13	125.06	119.78
1	9e	98	GLU	C-N-CA	5.13	125.06	119.78
1	9e	140	LYS	O-C-N	-5.13	116.68	122.12
1	9j	133	TRP	O-C-N	5.13	128.58	122.27
1	9q	54	THR	CA-C-O	5.13	125.99	120.55
1	9z	96	MET	CG-SD-CE	-5.13	89.61	100.90
1	9I	80	TRP	CG-CD2-CE3	-5.13	128.77	133.90
1	9P	58	THR	N-CA-CB	5.13	117.45	110.01
1	a1	103	ASP	O-C-N	-5.13	115.56	122.43
1	10	66	MET	N-CA-C	5.13	116.87	111.28
1	aq	131	LYS	CA-C-N	5.13	127.16	120.28
1	aq	131	LYS	C-N-CA	5.13	127.16	120.28
1	aE	90	PRO	CA-C-O	-5.13	115.49	121.34
1	15	224	PRO	CA-C-N	5.13	132.41	122.97
1	15	224	PRO	C-N-CA	5.13	132.41	122.97
1	b6	142	VAL	N-CA-CB	5.13	117.14	110.57
1	b7	9	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	bm	173	ARG	NE-CZ-NH2	5.13	123.82	119.20
1	bn	183	ASN	CA-CB-CG	5.13	117.73	112.60
1	bo	167	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	bD	181	VAL	CA-CB-CG1	5.13	119.12	110.40
1	bD	216	THR	CA-CB-OG1	5.13	117.29	109.60
1	bH	188	THR	CA-CB-CG2	5.13	119.22	110.50
1	bJ	9	GLN	OE1-CD-NE2	-5.13	117.47	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bL	67	GLN	N-CA-C	5.13	116.87	111.28
1	cf	100	ARG	CD-NE-CZ	-5.13	117.22	124.40
1	cj	103	ASP	N-CA-C	5.13	117.77	111.82
1	1f	182	LYS	CA-C-N	5.13	127.67	120.28
1	1f	182	LYS	C-N-CA	5.13	127.67	120.28
1	cE	173	ARG	CA-C-N	5.13	127.15	120.28
1	cE	173	ARG	C-N-CA	5.13	127.15	120.28
1	cO	231	LEU	CB-CA-C	-5.13	100.35	110.10
1	dd	132	ARG	CB-CG-CD	5.13	123.10	111.30
1	dg	195	ASN	CA-C-O	-5.13	114.83	120.17
1	dh	133	TRP	N-CA-C	5.13	117.54	111.33
1	dr	47	ALA	N-CA-C	5.13	117.67	110.23
1	dX	76	GLU	CA-C-N	5.13	127.16	120.28
1	dX	76	GLU	C-N-CA	5.13	127.16	120.28
1	eo	54	THR	CB-CA-C	-5.13	102.28	110.79
1	eC	97	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	eI	117	TRP	CH2-CZ2-CE2	-5.13	110.83	117.50
1	1t	9	GLN	CG-CD-NE2	5.13	124.10	116.40
1	eW	18	ARG	CA-C-N	5.13	127.58	120.29
1	eW	18	ARG	C-N-CA	5.13	127.58	120.29
1	1u	91	ILE	N-CA-CB	5.13	116.51	110.82
1	f2	150	ILE	CA-CB-CG2	-5.13	101.78	110.50
1	1v	190	LEU	O-C-N	5.13	127.56	122.12
1	fi	51	ASP	CA-C-N	5.13	127.11	120.44
1	fi	51	ASP	C-N-CA	5.13	127.11	120.44
1	fn	119	THR	CA-C-N	5.13	128.99	120.94
1	fn	119	THR	C-N-CA	5.13	128.99	120.94
1	fr	19	THR	N-CA-CB	5.13	117.45	110.01
1	fw	38	PRO	N-CA-CB	5.13	108.96	103.52
1	fG	117	TRP	CD2-CE2-CZ2	-5.13	117.27	122.40
1	fJ	4	GLN	N-CA-CB	-5.13	102.80	110.60
1	g4	221	VAL	CG1-CB-CG2	-5.13	99.52	110.80
1	r	135	ILE	O-C-N	-5.13	116.81	121.94
1	t	119	THR	CA-CB-OG1	5.13	117.30	109.60
1	O	87	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	gf	10	MET	O-C-N	-5.13	117.93	123.42
1	gk	120	HIS	CB-CA-C	5.13	118.97	109.54
1	gr	6	LEU	N-CA-CB	5.13	117.49	109.85
1	gt	62	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	gu	2	ILE	CA-C-O	5.13	125.92	120.48
1	gy	139	ASN	N-CA-C	5.13	117.53	111.33
1	gK	73	ILE	CA-CB-CG2	-5.13	101.78	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gM	143	ARG	O-C-N	-5.13	116.30	122.15
1	gN	62	HIS	CA-CB-CG	-5.13	108.67	113.80
1	gY	133	TRP	CE2-CD2-CE3	5.13	123.93	118.80
1	h2	190	LEU	N-CA-CB	-5.13	102.58	110.12
1	ha	27	VAL	N-CA-CB	5.13	117.51	110.54
1	hb	55	MET	CA-C-O	5.13	127.02	121.02
1	hD	15	ILE	N-CA-CB	5.13	116.62	110.31
1	hQ	178	SER	O-C-N	-5.13	116.94	122.79
1	hU	166	ASP	CA-C-N	5.13	127.15	120.28
1	hU	166	ASP	C-N-CA	5.13	127.15	120.28
1	i4	36	VAL	N-CA-C	5.13	117.46	111.05
1	i4	209	ALA	CA-C-O	-5.13	115.55	121.19
1	i9	2	ILE	O-C-N	-5.13	117.72	123.26
1	in	229	ARG	CA-C-O	5.13	126.49	120.80
1	is	129	ILE	CB-CA-C	-5.13	105.32	112.04
1	iH	81	ASP	CA-CB-CG	5.13	117.73	112.60
1	1R	90	PRO	N-CA-CB	5.13	107.40	103.30
1	iJ	145	TYR	CB-CG-CD1	-5.13	113.11	120.80
1	iL	62	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	j2	214	MET	CB-CA-C	-5.13	102.80	110.90
1	j9	120	HIS	CB-CA-C	5.13	119.97	109.76
1	jd	197	ASP	O-C-N	-5.13	115.46	122.33
1	ji	10	MET	O-C-N	-5.13	116.78	122.93
1	jl	183	ASN	N-CA-C	-5.13	105.34	111.03
1	jD	129	ILE	N-CA-C	5.13	115.85	110.62
1	jE	98	GLU	CA-C-O	5.13	124.57	119.49
1	jJ	180	GLU	CA-C-O	-5.13	115.11	120.55
1	jL	101	GLY	CA-C-N	5.13	127.15	120.28
1	jL	101	GLY	C-N-CA	5.13	127.15	120.28
1	jT	90	PRO	N-CA-C	5.13	119.25	111.15
1	jU	194	ALA	O-C-N	-5.13	116.50	122.81
1	jW	73	ILE	N-CA-C	5.13	115.85	110.62
1	20	173	ARG	N-CA-C	5.13	116.87	111.28
1	km	50	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	kp	5	ASN	CB-CA-C	-5.13	100.15	110.30
1	kA	50	GLN	N-CA-CB	5.13	117.45	110.01
1	kP	120	HIS	O-C-N	-5.13	115.77	122.59
1	kT	45	GLU	N-CA-C	5.13	117.53	111.33
1	kX	79	GLU	N-CA-C	5.13	116.87	111.28
1	le	48	THR	CA-C-N	5.13	125.17	119.32
1	le	48	THR	C-N-CA	5.13	125.17	119.32
1	le	74	ASN	N-CA-CB	5.13	117.75	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	27	57	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	27	201	ILE	CB-CA-C	-5.13	105.17	111.94
1	lr	114	GLN	CA-C-N	5.13	127.76	120.53
1	lr	114	GLN	C-N-CA	5.13	127.76	120.53
1	lr	209	ALA	N-CA-CB	5.13	117.58	110.04
1	lv	112	GLN	CB-CG-CD	5.13	121.32	112.60
1	lD	33	SER	O-C-N	-5.13	115.34	121.39
1	lF	208	ALA	CA-C-N	5.13	128.05	120.82
1	lF	208	ALA	C-N-CA	5.13	128.05	120.82
1	lG	3	VAL	CA-C-O	-5.13	114.51	121.02
1	lH	67	GLN	N-CA-C	5.13	116.87	111.28
1	lI	39	MET	CB-CA-C	-5.13	102.28	110.79
1	2a	150	ILE	CA-C-N	5.13	127.15	120.28
1	2a	150	ILE	C-N-CA	5.13	127.15	120.28
1	lM	226	HIS	CA-C-N	-5.13	115.64	122.72
1	lM	226	HIS	C-N-CA	-5.13	115.64	122.72
1	lP	74	ASN	OD1-CG-ND2	5.13	127.73	122.60
1	2c	24	VAL	N-CA-C	5.13	115.85	110.62
1	2e	114	GLN	CB-CA-C	5.13	118.93	110.88
1	2m	138	LEU	CA-C-N	5.13	127.57	120.29
1	2m	138	LEU	C-N-CA	5.13	127.57	120.29
1	2s	89	GLY	CA-C-N	5.13	125.42	119.93
1	2s	89	GLY	C-N-CA	5.13	125.42	119.93
1	2t	125	PRO	CB-CA-C	5.13	120.30	112.97
1	2A	123	PRO	N-CD-CG	5.13	110.89	103.20
1	2C	40	PHE	N-CA-C	5.13	116.87	111.28
1	2I	29	GLU	N-CA-CB	5.13	118.64	111.15
1	2Q	159	GLU	CB-CA-C	-5.13	101.37	109.42
1	2Y	100	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	32	27	VAL	CA-C-N	5.13	127.11	120.44
1	32	27	VAL	C-N-CA	5.13	127.11	120.44
1	34	167	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	3d	162	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	3i	170	LYS	O-C-N	-5.13	116.68	122.12
1	3j	162	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	3o	2	ILE	CB-CA-C	-5.13	104.18	111.21
1	3p	74	ASN	CB-CG-ND2	-5.13	108.71	116.40
1	3s	112	GLN	CA-C-N	5.13	127.15	120.28
1	3s	112	GLN	C-N-CA	5.13	127.15	120.28
1	3A	167	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	3O	51	ASP	CA-C-O	5.13	125.86	120.42
1	3P	194	ALA	O-C-N	-5.13	116.75	122.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	88	ALA	O-C-N	-5.13	116.68	122.12
1	3V	131	LYS	CA-CB-CG	-5.13	103.84	114.10
1	49	49	PRO	CA-C-N	5.13	127.46	120.54
1	49	49	PRO	C-N-CA	5.13	127.46	120.54
1	4a	48	THR	CA-CB-OG1	5.13	117.29	109.60
1	4d	20	LEU	N-CA-CB	5.13	117.44	110.01
1	4p	167	ARG	O-C-N	-5.13	115.96	122.27
1	4q	92	GLU	CA-C-N	5.13	125.42	119.93
1	4q	92	GLU	C-N-CA	5.13	125.42	119.93
1	4F	22	ALA	N-CA-C	5.13	117.53	111.33
1	4R	78	ALA	O-C-N	-5.13	116.68	122.12
1	53	179	GLN	OE1-CD-NE2	5.13	127.73	122.60
1	54	26	VAL	CA-C-O	5.13	126.29	120.85
1	5s	81	ASP	CA-C-O	-5.13	114.31	120.10
1	5w	202	LEU	CB-CA-C	5.13	119.30	110.79
1	5x	18	ARG	CA-C-N	5.13	127.57	120.29
1	5x	18	ARG	C-N-CA	5.13	127.57	120.29
1	5A	21	ASN	N-CA-CB	-5.13	102.58	110.12
1	5F	37	ILE	CA-C-N	5.13	124.30	118.97
1	5F	37	ILE	C-N-CA	5.13	124.30	118.97
1	5G	37	ILE	CA-CB-CG2	-5.13	101.78	110.50
1	5Q	180	GLU	CA-C-N	5.13	127.02	120.56
1	5Q	180	GLU	C-N-CA	5.13	127.02	120.56
1	62	203	LYS	CA-C-O	5.13	125.98	120.55
1	66	229	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	67	183	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	6b	135	ILE	CB-CA-C	-5.13	105.14	112.22
1	6e	145	TYR	CA-C-N	5.13	127.77	120.49
1	6e	145	TYR	C-N-CA	5.13	127.77	120.49
1	6g	146	SER	CA-C-N	5.13	125.13	119.90
1	6g	146	SER	C-N-CA	5.13	125.13	119.90
1	6h	41	SER	CA-C-N	5.13	127.92	120.79
1	6h	41	SER	C-N-CA	5.13	127.92	120.79
1	6q	10	MET	N-CA-C	5.13	117.65	109.96
1	6q	219	GLN	CA-CB-CG	5.13	124.36	114.10
1	6r	89	GLY	O-C-N	-5.13	116.64	121.77
1	6s	139	ASN	O-C-N	-5.13	116.68	122.12
1	6z	163	ASP	CA-CB-CG	-5.13	107.47	112.60
1	6C	36	VAL	N-CA-C	5.13	115.90	110.72
1	6N	218	CYS	CA-CB-SG	-5.13	102.60	114.40
1	6Q	73	ILE	N-CA-CB	-5.13	104.55	110.55
1	6T	27	VAL	CA-C-N	5.13	127.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6T	27	VAL	C-N-CA	5.13	127.15	120.28
1	6T	54	THR	CA-CB-CG2	5.13	119.22	110.50
1	6V	62	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	78	18	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	7a	100	ARG	CG-CD-NE	-5.13	100.72	112.00
1	7b	71	GLU	CB-CA-C	-5.13	101.14	110.63
1	7c	84	HIS	CA-CB-CG	-5.13	108.67	113.80
1	7d	109	SER	CA-C-N	5.13	128.99	120.94
1	7d	109	SER	C-N-CA	5.13	128.99	120.94
1	7k	163	ASP	CA-C-N	5.13	127.11	120.44
1	7k	163	ASP	C-N-CA	5.13	127.11	120.44
1	7o	58	THR	N-CA-C	5.13	117.77	111.82
1	7E	143	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	7P	78	ALA	O-C-N	-5.13	116.68	122.12
1	7Q	99	PRO	N-CA-C	5.13	119.62	111.26
1	7Q	117	TRP	N-CA-CB	5.13	117.66	110.12
1	7Y	120	HIS	O-C-N	-5.13	116.75	122.75
1	86	64	ALA	N-CA-C	5.13	116.56	111.07
1	87	95	GLN	N-CA-CB	-5.13	103.03	110.36
1	88	5	ASN	CA-C-N	5.13	131.34	121.54
1	88	5	ASN	C-N-CA	5.13	131.34	121.54
1	89	132	ARG	CG-CD-NE	-5.13	100.72	112.00
1	8c	161	PHE	CB-CA-C	5.13	119.31	110.79
1	8e	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	8g	184	TRP	CA-CB-CG	5.13	123.34	113.60
1	8j	160	PRO	CA-C-N	5.13	127.11	120.44
1	8j	160	PRO	C-N-CA	5.13	127.11	120.44
1	8K	108	THR	CA-C-O	5.13	125.64	119.59
1	8M	132	ARG	NE-CZ-NH2	-5.13	114.58	119.20
1	8V	88	ALA	N-CA-CB	-5.13	102.59	110.44
1	93	132	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	97	189	LEU	CB-CA-C	5.13	119.30	110.79
1	98	111	LEU	N-CA-CB	-5.13	102.32	110.22
1	9h	120	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	9l	214	MET	O-C-N	-5.13	116.68	122.12
1	9m	45	GLU	N-CA-CB	5.13	117.61	109.71
1	9p	39	MET	O-C-N	5.13	128.00	122.15
1	9r	173	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	9D	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	9H	51	ASP	CA-C-N	5.13	127.57	120.29
1	9H	51	ASP	C-N-CA	5.13	127.57	120.29
1	9Q	221	VAL	N-CA-C	-5.13	101.03	108.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9V	176	GLN	CA-C-N	5.13	128.95	121.31
1	9V	176	GLN	C-N-CA	5.13	128.95	121.31
1	9V	206	GLY	CA-C-N	5.13	127.10	120.89
1	9V	206	GLY	C-N-CA	5.13	127.10	120.89
1	9Z	166	ASP	N-CA-C	5.13	116.87	111.28
1	a1	125	PRO	CB-CA-C	5.13	120.62	112.06
1	a5	181	VAL	CB-CA-C	5.13	118.74	112.02
1	a6	70	LYS	O-C-N	-5.13	116.68	122.12
1	a7	80	TRP	O-C-N	5.13	127.56	122.12
1	a8	213	GLU	CA-C-N	5.13	127.41	120.38
1	a8	213	GLU	C-N-CA	5.13	127.41	120.38
1	a9	225	GLY	O-C-N	-5.13	116.08	122.34
1	ah	58	THR	CA-C-O	5.13	125.84	119.79
1	aB	192	GLN	N-CA-CB	-5.13	102.57	110.16
1	aE	143	ARG	NH1-CZ-NH2	-5.13	112.63	119.30
1	aG	57	ASN	N-CA-C	5.13	118.80	112.54
1	b3	84	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	b5	18	ARG	CA-C-N	5.13	127.15	120.28
1	b5	18	ARG	C-N-CA	5.13	127.15	120.28
1	b5	176	GLN	N-CA-C	5.13	117.77	111.82
1	b7	115	ILE	CA-C-O	5.13	126.28	120.95
1	bu	33	SER	N-CA-C	-5.13	101.22	109.58
1	bJ	65	ALA	O-C-N	-5.13	116.79	122.07
1	bL	109	SER	O-C-N	-5.13	117.20	123.10
1	bO	57	ASN	N-CA-C	-5.13	106.71	113.17
1	bV	221	VAL	N-CA-C	5.13	119.27	111.89
1	c7	165	VAL	CA-CB-CG1	5.13	119.12	110.40
1	ca	166	ASP	CA-CB-CG	5.13	117.73	112.60
1	cd	26	VAL	O-C-N	-5.13	116.88	121.91
1	cd	83	LEU	CB-CA-C	-5.13	102.28	110.79
1	cf	122	PRO	N-CD-CG	5.13	109.95	103.80
1	cu	58	THR	OG1-CB-CG2	-5.13	99.04	109.30
1	1g	120	HIS	CA-C-O	-5.13	115.92	121.87
1	cO	166	ASP	CA-CB-CG	-5.13	107.47	112.60
1	cY	62	HIS	ND1-CG-CD2	5.13	111.23	106.10
1	cZ	205	LEU	O-C-N	-5.13	115.56	122.23
1	d4	166	ASP	CA-C-N	5.13	127.11	120.44
1	d4	166	ASP	C-N-CA	5.13	127.11	120.44
1	d5	16	SER	N-CA-C	5.13	117.16	110.08
1	dd	44	SER	N-CA-CB	-5.13	103.48	110.56
1	dd	123	PRO	N-CA-C	5.13	123.04	112.47
1	de	112	GLN	CG-CD-OE1	5.13	131.06	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	df	211	LEU	N-CA-C	5.13	116.87	111.28
1	dm	198	CYS	O-C-N	-5.13	115.56	122.23
1	dA	211	LEU	O-C-N	-5.13	116.35	122.20
1	dB	76	GLU	N-CA-C	5.13	117.77	111.82
1	dL	55	MET	CB-CA-C	-5.13	102.28	110.79
1	dM	36	VAL	N-CA-C	5.13	115.90	110.72
1	dR	35	GLU	CA-C-N	5.13	129.11	120.29
1	dR	35	GLU	C-N-CA	5.13	129.11	120.29
1	1n	87	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	dX	129	ILE	N-CA-C	5.13	115.90	110.72
1	dX	144	MET	N-CA-C	5.13	117.61	111.71
1	dY	66	MET	N-CA-CB	5.13	117.66	110.12
1	e0	84	HIS	O-C-N	-5.13	115.52	121.47
1	e2	62	HIS	CA-CB-CG	-5.13	108.67	113.80
1	e7	23	TRP	N-CA-C	5.13	116.87	111.28
1	ef	20	LEU	CA-C-O	5.13	125.86	120.42
1	ei	41	SER	CA-C-N	5.13	127.66	120.28
1	ei	41	SER	C-N-CA	5.13	127.66	120.28
1	ei	226	HIS	CB-CG-CD2	-5.13	124.53	131.20
1	ej	57	ASN	CA-CB-CG	-5.13	107.47	112.60
1	1q	15	ILE	N-CA-C	5.13	115.71	109.30
1	1q	87	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	en	156	GLY	O-C-N	-5.13	116.64	121.77
1	eo	146	SER	CA-C-O	-5.13	113.36	118.34
1	eD	78	ALA	N-CA-C	5.13	117.54	111.33
1	eH	120	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	eL	219	GLN	N-CA-C	-5.13	100.88	109.24
1	eM	194	ALA	O-C-N	-5.13	116.39	122.65
1	eQ	120	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	eU	185	MET	CG-SD-CE	-5.13	89.62	100.90
1	f6	166	ASP	CA-CB-CG	5.13	117.73	112.60
1	fq	95	GLN	O-C-N	-5.13	116.93	123.24
1	ft	197	ASP	CA-C-N	5.13	127.67	120.28
1	ft	197	ASP	C-N-CA	5.13	127.67	120.28
1	fA	20	LEU	CA-C-N	5.13	128.10	120.31
1	fA	20	LEU	C-N-CA	5.13	128.10	120.31
1	fJ	11	VAL	N-CA-CB	5.13	116.85	111.00
1	fK	2	ILE	CA-CB-CG1	5.13	119.12	110.40
1	1z	79	GLU	N-CA-C	5.13	116.56	111.07
1	1z	126	VAL	N-CA-C	5.13	117.50	111.09
1	fP	78	ALA	N-CA-CB	-5.13	102.57	110.01
1	fR	167	ARG	N-CA-C	5.13	116.87	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fU	134	ILE	O-C-N	-5.13	116.89	121.91
1	1A	169	TYR	O-C-N	-5.13	115.96	122.27
1	g0	49	PRO	O-C-N	5.13	128.14	122.24
1	g6	68	MET	N-CA-C	5.13	116.87	111.28
1	0	68	MET	N-CA-C	5.13	116.95	111.36
1	k	191	VAL	CA-C-O	5.13	126.29	120.85
1	m	142	VAL	O-C-N	-5.13	116.89	121.87
1	t	40	PHE	CA-C-N	5.13	127.42	120.44
1	t	40	PHE	C-N-CA	5.13	127.42	120.44
1	z	50	GLN	CA-C-N	5.13	127.15	120.28
1	z	50	GLN	C-N-CA	5.13	127.15	120.28
1	3	161	PHE	CA-C-N	5.13	127.15	120.28
1	3	161	PHE	C-N-CA	5.13	127.15	120.28
1	G	2	ILE	N-CA-CB	5.13	117.75	111.60
1	K	21	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	S	9	GLN	CA-C-N	5.13	131.34	121.54
1	S	9	GLN	C-N-CA	5.13	131.34	121.54
1	V	184	TRP	CA-C-N	5.13	127.87	120.38
1	V	184	TRP	C-N-CA	5.13	127.87	120.38
1	g9	214	MET	N-CA-C	5.13	116.87	111.28
1	gr	32	PHE	N-CA-CB	5.13	117.61	109.71
1	gC	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	1F	9	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	1G	88	ALA	N-CA-CB	-5.13	103.16	110.80
1	1G	108	THR	CA-CB-OG1	5.13	117.29	109.60
1	1G	139	ASN	CA-C-N	5.13	127.15	120.28
1	1G	139	ASN	C-N-CA	5.13	127.15	120.28
1	gW	133	TRP	N-CA-C	-5.13	105.77	111.36
1	h8	108	THR	CA-C-N	5.13	131.33	121.54
1	h8	108	THR	C-N-CA	5.13	131.33	121.54
1	ha	50	GLN	CA-C-N	5.13	127.15	120.28
1	ha	50	GLN	C-N-CA	5.13	127.15	120.28
1	hc	178	SER	CA-C-N	5.13	127.40	120.38
1	hc	178	SER	C-N-CA	5.13	127.40	120.38
1	hf	103	ASP	CA-C-N	5.13	127.21	120.60
1	hf	103	ASP	C-N-CA	5.13	127.21	120.60
1	1I	54	THR	CA-CB-CG2	5.13	119.22	110.50
1	1I	192	GLN	CB-CA-C	5.13	120.51	110.67
1	hh	178	SER	CA-C-O	-5.13	114.23	120.54
1	hk	112	GLN	CG-CD-OE1	5.13	131.05	120.80
1	hl	189	LEU	N-CA-C	5.13	116.56	111.07
1	hu	137	GLY	N-CA-C	5.13	119.33	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hw	222	GLY	O-C-N	5.13	127.77	122.90
1	1K	3	VAL	N-CA-CB	5.13	120.48	110.95
1	1K	121	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	hS	55	MET	O-C-N	-5.13	116.31	122.15
1	hT	80	TRP	CE3-CZ3-CH2	-5.13	114.44	121.10
1	hY	7	GLN	N-CA-C	5.13	116.90	110.24
1	i2	213	GLU	CA-C-N	5.13	127.46	120.54
1	i2	213	GLU	C-N-CA	5.13	127.46	120.54
1	1N	62	HIS	CA-C-N	5.13	127.46	120.54
1	1N	62	HIS	C-N-CA	5.13	127.46	120.54
1	i4	190	LEU	CA-C-N	5.13	127.48	120.46
1	i4	190	LEU	C-N-CA	5.13	127.48	120.46
1	1O	63	GLN	N-CA-C	5.13	117.77	111.82
1	iq	15	ILE	O-C-N	-5.13	117.34	122.62
1	iD	133	TRP	CB-CG-CD2	-5.13	119.62	126.80
1	iM	133	TRP	CG-CD1-NE1	-5.13	103.53	110.20
1	iQ	153	ILE	O-C-N	-5.13	117.20	122.63
1	iT	51	ASP	O-C-N	-5.13	116.79	122.07
1	jd	120	HIS	CA-C-O	5.13	126.83	121.19
1	jf	229	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	jg	53	ASN	CA-CB-CG	-5.13	107.47	112.60
1	jg	187	GLU	CA-C-N	5.13	127.15	120.28
1	jg	187	GLU	C-N-CA	5.13	127.15	120.28
1	jk	62	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	jk	143	ARG	NE-CZ-NH1	5.13	126.63	121.50
1	jt	184	TRP	CA-C-N	5.13	127.10	120.44
1	jt	184	TRP	C-N-CA	5.13	127.10	120.44
1	jK	75	GLU	N-CA-CB	-5.13	102.57	110.16
1	jM	144	MET	N-CA-C	5.13	117.26	111.11
1	jT	84	HIS	CA-CB-CG	-5.13	108.67	113.80
1	k3	92	GLU	CA-C-N	5.13	126.25	119.84
1	k3	92	GLU	C-N-CA	5.13	126.25	119.84
1	k8	216	THR	CA-CB-OG1	-5.13	101.91	109.60
1	ka	209	ALA	CA-C-O	5.13	126.70	120.81
1	kb	98	GLU	CA-C-N	5.13	125.42	119.93
1	kb	98	GLU	C-N-CA	5.13	125.42	119.93
1	kj	214	MET	N-CA-CB	5.13	117.58	109.94
1	km	165	VAL	CA-C-N	5.13	127.10	120.44
1	km	165	VAL	C-N-CA	5.13	127.10	120.44
1	kq	37	ILE	N-CA-C	5.13	118.50	112.35
1	kv	179	GLN	N-CA-C	5.13	117.53	111.33
1	kz	115	ILE	CA-CB-CG2	5.13	119.22	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	21	ASN	CA-C-N	5.13	127.57	120.29
1	kF	21	ASN	C-N-CA	5.13	127.57	120.29
1	kI	71	GLU	CA-C-N	5.13	127.46	120.54
1	kI	71	GLU	C-N-CA	5.13	127.46	120.54
1	kL	62	HIS	N-CA-C	5.13	118.47	111.39
1	kP	142	VAL	N-CA-CB	5.13	116.20	110.51
1	kQ	20	LEU	CA-C-N	5.13	127.46	120.54
1	kQ	20	LEU	C-N-CA	5.13	127.46	120.54
1	kQ	127	GLY	CA-C-N	5.13	127.41	120.44
1	kQ	127	GLY	C-N-CA	5.13	127.41	120.44
1	kR	172	LEU	CA-C-N	5.13	127.66	120.28
1	kR	172	LEU	C-N-CA	5.13	127.66	120.28
1	25	195	ASN	N-CA-C	5.13	115.50	109.60
1	kZ	213	GLU	CB-CA-C	-5.13	102.28	110.79
1	l2	222	GLY	N-CA-C	5.13	120.81	112.61
1	l8	29	GLU	N-CA-C	5.13	116.87	111.28
1	l9	58	THR	N-CA-CB	5.13	119.01	110.91
1	l9	129	ILE	O-C-N	-5.13	116.66	121.94
1	la	173	ARG	N-CA-C	5.13	116.87	111.28
1	li	201	ILE	CB-CA-C	-5.13	105.41	111.97
1	lm	122	PRO	CA-C-N	5.13	126.25	119.84
1	lm	122	PRO	C-N-CA	5.13	126.25	119.84
1	ln	76	GLU	N-CA-C	5.13	116.95	111.36
1	lq	41	SER	CB-CA-C	-5.13	102.83	110.88
1	lC	136	LEU	CA-C-N	5.13	125.63	119.94
1	lC	136	LEU	C-N-CA	5.13	125.63	119.94
1	lI	80	TRP	O-C-N	-5.13	116.79	122.07
1	lL	114	GLN	CA-C-N	5.13	127.02	120.56
1	lL	114	GLN	C-N-CA	5.13	127.02	120.56
1	lL	141	ILE	CA-C-N	5.13	127.48	120.46
1	lL	141	ILE	C-N-CA	5.13	127.48	120.46
1	2a	26	VAL	N-CA-C	5.13	117.50	111.09
1	2a	73	ILE	N-CA-C	5.13	115.85	110.62
1	lM	201	ILE	N-CA-CB	5.13	116.21	110.62
1	lP	53	ASN	N-CA-C	5.13	116.87	111.28
1	2b	103	ASP	CA-CB-CG	-5.13	107.47	112.60
1	2f	152	ASP	CA-C-N	5.13	128.71	120.30
1	2f	152	ASP	C-N-CA	5.13	128.71	120.30
1	2i	63	GLN	CB-CA-C	5.13	119.30	110.79
1	2m	123	PRO	N-CD-CG	5.13	110.89	103.20
1	2m	169	TYR	N-CA-C	5.13	116.87	111.28
1	2K	100	ARG	CA-C-N	5.13	125.77	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2K	100	ARG	C-N-CA	5.13	125.77	120.03
1	2M	134	ILE	CA-CB-CG1	5.13	119.12	110.40
1	2Y	210	THR	N-CA-CB	5.13	118.12	109.92
1	32	98	GLU	O-C-N	-5.13	115.98	121.42
1	3b	206	GLY	CA-C-N	5.13	125.42	119.47
1	3b	206	GLY	C-N-CA	5.13	125.42	119.47
1	3c	154	ARG	N-CA-C	-5.13	99.98	108.75
1	3E	35	GLU	CA-C-N	5.13	127.70	120.42
1	3E	35	GLU	C-N-CA	5.13	127.70	120.42
1	3F	208	ALA	N-CA-C	5.13	118.20	111.28
1	3F	210	THR	O-C-N	-5.13	116.64	122.89
1	3H	220	GLY	O-C-N	-5.13	115.88	122.39
1	3L	200	THR	CA-CB-OG1	5.13	117.29	109.60
1	3Z	96	MET	CA-C-N	5.13	128.36	120.82
1	3Z	96	MET	C-N-CA	5.13	128.36	120.82
1	41	91	ILE	CA-C-N	5.13	129.49	122.06
1	41	91	ILE	C-N-CA	5.13	129.49	122.06
1	4e	30	LYS	CA-C-O	5.13	124.36	119.08
1	4g	48	THR	O-C-N	-5.13	115.89	121.53
1	4m	97	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	4r	40	PHE	N-CA-C	5.13	117.26	111.11
1	4r	41	SER	CB-CA-C	5.13	119.01	110.81
1	4O	198	CYS	CA-C-N	5.13	127.15	120.28
1	4O	198	CYS	C-N-CA	5.13	127.15	120.28
1	4Q	156	GLY	O-C-N	-5.13	116.64	121.77
1	4R	190	LEU	N-CA-C	5.13	116.87	111.28
1	4U	147	PRO	N-CA-C	5.13	119.26	111.11
1	50	87	HIS	O-C-N	5.13	128.91	122.86
1	53	13	GLN	CA-C-N	5.13	128.49	120.75
1	53	13	GLN	C-N-CA	5.13	128.49	120.75
1	53	19	THR	CA-C-N	5.13	127.57	120.29
1	53	19	THR	C-N-CA	5.13	127.57	120.29
1	54	120	HIS	CB-CG-CD2	5.13	137.87	131.20
1	58	55	MET	N-CA-C	5.13	116.56	111.07
1	5c	187	GLU	O-C-N	-5.13	115.46	122.33
1	5h	203	LYS	CG-CD-CE	5.13	123.09	111.30
1	5m	133	TRP	CD2-CE2-CZ2	5.13	127.53	122.40
1	5x	5	ASN	O-C-N	-5.13	115.77	122.59
1	5y	110	THR	N-CA-CB	5.13	117.55	110.17
1	5N	226	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	5R	99	PRO	O-C-N	-5.13	117.24	123.03
1	5X	166	ASP	CA-C-N	5.13	127.15	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	166	ASP	C-N-CA	5.13	127.15	120.28
1	60	135	ILE	CA-C-N	5.13	127.15	120.28
1	60	135	ILE	C-N-CA	5.13	127.15	120.28
1	63	147	PRO	CA-C-N	5.13	130.30	120.97
1	63	147	PRO	C-N-CA	5.13	130.30	120.97
1	65	48	THR	O-C-N	-5.13	115.79	121.53
1	65	181	VAL	O-C-N	-5.13	116.89	121.91
1	67	212	GLU	CA-CB-CG	5.13	124.35	114.10
1	6a	153	ILE	N-CA-CB	5.13	116.12	110.53
1	6g	33	SER	O-C-N	-5.13	115.42	121.32
1	6h	1	PRO	N-CD-CG	5.13	110.89	103.20
1	6z	155	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	6J	180	GLU	CA-C-N	5.13	127.48	120.46
1	6J	180	GLU	C-N-CA	5.13	127.48	120.46
1	6Z	199	LYS	CA-C-O	5.13	126.20	120.82
1	7b	100	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	7m	211	LEU	CA-C-N	5.13	127.10	120.44
1	7m	211	LEU	C-N-CA	5.13	127.10	120.44
1	7x	157	PRO	CB-CA-C	5.13	120.02	111.56
1	7y	61	GLY	N-CA-C	5.13	120.44	112.60
1	7P	158	LYS	O-C-N	-5.13	116.15	122.20
1	7W	111	LEU	N-CA-C	5.13	116.56	111.07
1	81	159	GLU	CA-C-O	5.13	125.46	120.23
1	83	25	LYS	N-CA-CB	5.13	118.76	110.40
1	86	18	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	8k	9	GLN	CA-C-N	5.13	127.99	120.71
1	8k	9	GLN	C-N-CA	5.13	127.99	120.71
1	8l	214	MET	N-CA-C	5.13	116.87	111.28
1	8p	33	SER	CA-C-O	-5.13	114.31	120.41
1	8p	221	VAL	CA-CB-CG1	5.13	119.11	110.40
1	8x	182	LYS	CB-CA-C	-5.13	102.83	110.88
1	8B	98	GLU	CA-C-N	5.13	125.93	119.98
1	8B	98	GLU	C-N-CA	5.13	125.93	119.98
1	8C	111	LEU	N-CA-C	5.13	118.31	111.75
1	8N	146	SER	CA-C-O	-5.13	115.05	120.02
1	8O	72	THR	O-C-N	-5.13	116.69	122.12
1	8P	26	VAL	CA-C-O	5.13	126.61	121.17
1	8R	90	PRO	O-C-N	-5.13	115.72	122.64
1	8Y	156	GLY	O-C-N	-5.13	116.64	121.77
1	90	164	TYR	O-C-N	-5.13	116.69	122.12
1	97	128	GLU	CA-C-N	5.13	127.02	120.56
1	97	128	GLU	C-N-CA	5.13	127.02	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9b	14	ALA	N-CA-C	5.13	117.67	110.23
1	9g	194	ALA	N-CA-C	5.13	117.14	110.43
1	9n	91	ILE	CA-C-N	5.13	127.52	120.39
1	9n	91	ILE	C-N-CA	5.13	127.52	120.39
1	9o	96	MET	CB-CA-C	5.13	118.21	109.75
1	9p	123	PRO	CB-CA-C	5.13	118.96	111.22
1	9q	205	LEU	N-CA-C	-5.13	106.53	112.89
1	9x	12	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	9K	66	MET	O-C-N	-5.13	116.69	122.12
1	9L	112	GLN	CG-CD-NE2	5.13	124.09	116.40
1	9Q	221	VAL	CA-C-N	5.13	131.46	121.41
1	9Q	221	VAL	C-N-CA	5.13	131.46	121.41
1	9R	186	THR	CA-C-N	5.13	128.10	120.31
1	9R	186	THR	C-N-CA	5.13	128.10	120.31
1	9U	168	PHE	CA-C-N	5.13	127.15	120.28
1	9U	168	PHE	C-N-CA	5.13	127.15	120.28
1	a9	46	GLY	N-CA-C	5.13	122.66	115.43
1	a9	227	LYS	N-CA-C	5.13	118.46	111.39
1	ab	109	SER	N-CA-CB	5.13	119.67	110.80
1	ac	67	GLN	CB-CG-CD	-5.13	103.89	112.60
1	ag	142	VAL	CA-C-N	5.13	127.15	120.28
1	ag	142	VAL	C-N-CA	5.13	127.15	120.28
1	an	76	GLU	CA-C-N	5.13	127.15	120.28
1	an	76	GLU	C-N-CA	5.13	127.15	120.28
1	ar	176	GLN	CA-C-O	5.13	125.42	119.32
1	as	46	GLY	CA-C-O	-5.13	113.18	119.69
1	as	57	ASN	CA-CB-CG	5.13	117.73	112.60
1	av	37	ILE	O-C-N	5.13	123.70	120.42
1	aC	119	THR	N-CA-CB	5.13	118.05	110.56
1	aO	15	ILE	O-C-N	-5.13	117.12	122.81
1	aT	197	ASP	CA-C-O	-5.13	115.12	120.55
1	aV	4	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	aW	127	GLY	N-CA-C	-5.13	106.21	112.77
1	b0	17	PRO	CA-C-N	5.13	127.15	120.28
1	b0	17	PRO	C-N-CA	5.13	127.15	120.28
1	b0	78	ALA	O-C-N	-5.13	116.31	122.15
1	b1	113	GLU	CB-CG-CD	5.13	121.31	112.60
1	b8	28	GLU	CA-CB-CG	5.13	124.35	114.10
1	bb	79	GLU	CB-CA-C	5.13	119.30	110.79
1	bg	110	THR	CB-CA-C	5.13	119.88	110.24
1	bj	51	ASP	N-CA-C	5.13	116.55	111.07
1	bl	2	ILE	CA-C-N	5.13	129.55	123.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bl	2	ILE	C-N-CA	5.13	129.55	123.19
1	bq	168	PHE	CA-CB-CG	5.13	118.93	113.80
1	bu	74	ASN	OD1-CG-ND2	-5.13	117.47	122.60
1	bv	42	ALA	N-CA-CB	-5.13	102.58	110.12
1	bz	72	THR	CA-C-N	5.13	127.02	120.56
1	bz	72	THR	C-N-CA	5.13	127.02	120.56
1	bA	60	GLY	CA-C-N	5.13	126.99	122.43
1	bA	60	GLY	C-N-CA	5.13	126.99	122.43
1	bF	11	VAL	CB-CA-C	5.13	118.26	110.62
1	bH	56	LEU	N-CA-C	5.13	116.56	111.07
1	1a	158	LYS	CA-C-N	5.13	127.62	120.65
1	1a	158	LYS	C-N-CA	5.13	127.62	120.65
1	bU	166	ASP	N-CA-CB	-5.13	102.30	109.94
1	bX	73	ILE	O-C-N	-5.13	116.89	121.91
1	c0	221	VAL	CA-C-O	-5.13	115.67	120.34
1	c3	177	ALA	O-C-N	-5.13	117.13	123.44
1	c7	87	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	co	226	HIS	CA-CB-CG	5.13	118.93	113.80
1	cu	153	ILE	O-C-N	-5.13	117.20	122.63
1	cw	115	ILE	CA-C-N	5.13	125.63	119.94
1	cw	115	ILE	C-N-CA	5.13	125.63	119.94
1	cA	155	GLN	OE1-CD-NE2	5.13	127.73	122.60
1	cN	45	GLU	N-CA-C	5.13	121.72	110.80
1	cP	191	VAL	N-CA-C	5.13	119.62	112.50
1	cR	210	THR	CA-CB-OG1	5.13	117.29	109.60
1	cX	113	GLU	CA-C-O	5.13	126.20	120.82
1	cZ	48	THR	O-C-N	-5.13	115.79	121.53
1	d0	31	ALA	O-C-N	-5.13	116.69	122.12
1	d2	6	LEU	CB-CA-C	5.13	118.03	110.14
1	1i	163	ASP	O-C-N	-5.13	116.22	122.22
1	d7	179	GLN	N-CA-C	5.13	119.78	111.37
1	d8	176	GLN	O-C-N	-5.13	116.19	122.34
1	1j	40	PHE	O-C-N	-5.13	116.69	122.12
1	1j	119	THR	O-C-N	-5.13	116.15	122.25
1	dj	81	ASP	CB-CG-OD2	-5.13	106.61	118.40
1	dq	211	LEU	N-CA-C	5.13	117.61	111.71
1	du	114	GLN	N-CA-CB	5.13	117.58	109.94
1	dz	141	ILE	CB-CA-C	-5.13	105.41	111.97
1	dD	16	SER	CA-C-N	5.13	124.44	118.85
1	dD	16	SER	C-N-CA	5.13	124.44	118.85
1	dU	61	GLY	CA-C-N	5.13	129.84	122.35
1	dU	61	GLY	C-N-CA	5.13	129.84	122.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dZ	228	ALA	CA-C-N	5.13	128.61	121.02
1	dZ	228	ALA	C-N-CA	5.13	128.61	121.02
1	1o	139	ASN	CB-CA-C	-5.13	102.28	110.79
1	e3	90	PRO	CA-C-N	5.13	129.49	121.85
1	e3	90	PRO	C-N-CA	5.13	129.49	121.85
1	e6	201	ILE	N-CA-C	5.13	115.90	110.72
1	e8	5	ASN	O-C-N	-5.13	116.16	122.82
1	e8	155	GLN	N-CA-C	5.13	117.60	109.96
1	ec	129	ILE	CA-C-O	5.13	126.28	120.95
1	eh	166	ASP	N-CA-C	5.13	117.27	111.02
1	1q	170	LYS	CA-C-N	5.13	127.11	120.44
1	1q	170	LYS	C-N-CA	5.13	127.11	120.44
1	eU	53	ASN	CA-CB-CG	-5.13	107.47	112.60
1	eU	166	ASP	N-CA-C	5.13	116.87	111.28
1	eY	39	MET	CA-C-N	5.13	127.15	120.28
1	eY	39	MET	C-N-CA	5.13	127.15	120.28
1	f0	84	HIS	N-CA-C	5.13	118.89	109.10
1	fe	23	TRP	CH2-CZ2-CE2	-5.13	110.84	117.50
1	fi	225	GLY	O-C-N	-5.13	117.11	122.60
1	fj	86	VAL	O-C-N	-5.13	117.10	123.10
1	fp	191	VAL	O-C-N	-5.13	116.55	121.83
1	fs	87	HIS	CG-CD2-NE2	5.13	112.33	107.20
1	fy	202	LEU	N-CA-CB	5.13	117.66	110.12
1	fC	144	MET	O-C-N	-5.13	116.69	122.12
1	1y	183	ASN	CA-C-O	-5.13	115.44	120.82
1	fP	146	SER	O-C-N	-5.13	116.15	121.28
1	fV	4	GLN	OE1-CD-NE2	-5.13	117.47	122.60
1	1A	149	SER	CA-C-N	5.13	129.42	120.86
1	1A	149	SER	C-N-CA	5.13	129.42	120.86
1	g2	229	ARG	NE-CZ-NH2	5.13	123.81	119.20
1	g6	213	GLU	CA-C-O	5.13	125.98	120.55
1	h	47	ALA	N-CA-C	5.13	117.47	110.55
1	q	100	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	t	143	ARG	N-CA-C	5.13	116.87	111.28
1	2	96	MET	N-CA-CB	5.13	119.15	110.49
1	E	214	MET	CA-C-N	5.13	127.15	120.28
1	E	214	MET	C-N-CA	5.13	127.15	120.28
1	F	226	HIS	CB-CA-C	5.13	119.01	111.73
1	J	185	MET	CA-C-O	-5.13	114.07	119.97
1	K	89	GLY	CA-C-N	5.13	126.25	119.84
1	K	89	GLY	C-N-CA	5.13	126.25	119.84
1	N	198	CYS	CA-C-N	5.13	127.10	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	198	CYS	C-N-CA	5.13	127.10	120.44
1	V	132	ARG	NE-CZ-NH2	-5.13	114.59	119.20
1	ge	133	TRP	CB-CG-CD2	-5.12	119.62	126.80
1	gL	134	ILE	CA-C-N	5.12	127.02	120.56
1	gL	134	ILE	C-N-CA	5.12	127.02	120.56
1	gU	204	ALA	N-CA-C	5.12	116.67	111.14
1	1G	33	SER	O-C-N	-5.12	115.89	121.53
1	1G	44	SER	CA-C-O	5.12	126.58	120.53
1	ha	82	ARG	CG-CD-NE	-5.12	100.72	112.00
1	hd	150	ILE	CA-CB-CG1	5.12	119.11	110.40
1	hj	95	GLN	OE1-CD-NE2	-5.12	117.47	122.60
1	hu	117	TRP	CG-CD2-CE3	-5.12	128.78	133.90
1	ib	154	ARG	CD-NE-CZ	-5.12	117.22	124.40
1	iy	229	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	iM	129	ILE	O-C-N	5.12	127.23	121.90
1	iO	109	SER	O-C-N	-5.12	117.20	123.30
1	iY	210	THR	N-CA-CB	5.12	118.98	110.63
1	jd	205	LEU	CA-C-O	5.12	125.98	120.55
1	jh	217	ALA	N-CA-C	5.12	117.14	110.43
1	jm	128	GLU	CA-C-O	5.12	125.98	120.55
1	jw	121	ASN	CA-C-O	-5.12	113.08	119.54
1	jy	187	GLU	CA-C-N	5.12	127.10	120.44
1	jy	187	GLU	C-N-CA	5.12	127.10	120.44
1	jL	103	ASP	CA-C-N	5.12	127.76	120.53
1	jL	103	ASP	C-N-CA	5.12	127.76	120.53
1	jO	18	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	1Z	171	THR	N-CA-C	5.12	117.99	111.69
1	1Z	220	GLY	N-CA-C	-5.12	107.52	115.67
1	k4	127	GLY	CA-C-O	-5.12	115.47	120.75
1	k4	161	PHE	CA-CB-CG	5.12	118.92	113.80
1	kc	2	ILE	N-CA-CB	5.12	117.21	111.21
1	kq	80	TRP	CA-C-N	5.12	127.10	120.44
1	kq	80	TRP	C-N-CA	5.12	127.10	120.44
1	kA	88	ALA	CA-C-N	5.12	129.92	121.87
1	kA	88	ALA	C-N-CA	5.12	129.92	121.87
1	kA	226	HIS	O-C-N	-5.12	116.19	123.01
1	kI	11	VAL	N-CA-C	5.12	117.01	109.63
1	kZ	113	GLU	CA-C-O	5.12	125.85	120.42
1	lo	132	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	2o	172	LEU	N-CA-C	-5.12	105.59	111.07
1	2t	178	SER	CA-C-O	5.12	127.83	121.94
1	2w	120	HIS	CB-CG-ND1	5.12	130.39	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2N	229	ARG	NH1-CZ-NH2	-5.12	112.64	119.30
1	2P	120	HIS	CG-CD2-NE2	5.12	112.33	107.20
1	2R	216	THR	O-C-N	-5.12	115.99	122.19
1	2U	217	ALA	O-C-N	-5.12	116.95	122.79
1	33	140	LYS	N-CA-C	5.12	116.55	111.07
1	36	126	VAL	CB-CA-C	-5.12	105.22	112.14
1	3I	100	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	3S	12	HIS	ND1-CE1-NE2	5.12	113.53	108.40
1	4E	84	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	55	60	GLY	CA-C-N	5.12	131.46	121.41
1	55	60	GLY	C-N-CA	5.12	131.46	121.41
1	56	192	GLN	OE1-CD-NE2	-5.12	117.47	122.60
1	5c	94	GLY	CA-C-O	5.12	126.10	119.44
1	5h	156	GLY	O-C-N	-5.12	116.64	121.77
1	5q	16	SER	O-C-N	-5.12	115.89	121.53
1	5M	153	ILE	O-C-N	-5.12	117.20	122.63
1	69	82	ARG	CA-C-O	-5.12	115.12	120.55
1	6f	184	TRP	CB-CG-CD2	5.12	133.97	126.80
1	6i	52	LEU	CA-C-O	5.12	125.98	120.55
1	6j	106	GLY	CA-C-O	5.12	124.08	118.95
1	6l	197	ASP	CA-CB-CG	5.12	117.72	112.60
1	6p	192	GLN	CB-CG-CD	-5.12	103.89	112.60
1	6q	167	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	6v	98	GLU	O-C-N	5.12	126.58	121.30
1	6H	184	TRP	CA-C-N	5.12	127.15	120.28
1	6H	184	TRP	C-N-CA	5.12	127.15	120.28
1	6K	202	LEU	N-CA-C	5.12	116.67	111.14
1	6T	7	GLN	O-C-N	-5.12	117.22	123.27
1	73	16	SER	CA-C-N	5.12	125.42	119.47
1	73	16	SER	C-N-CA	5.12	125.42	119.47
1	7z	73	ILE	O-C-N	-5.12	116.90	121.87
1	7X	184	TRP	N-CA-CB	-5.12	102.43	109.91
1	85	22	ALA	O-C-N	5.12	127.55	122.12
1	88	156	GLY	O-C-N	-5.12	116.19	122.03
1	8z	121	ASN	CA-C-O	-5.12	115.06	119.36
1	8I	82	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	8Q	148	THR	N-CA-C	5.12	117.66	110.23
1	9b	160	PRO	CA-C-N	5.12	130.61	122.61
1	9b	160	PRO	C-N-CA	5.12	130.61	122.61
1	9c	172	LEU	CA-C-N	5.12	127.15	120.28
1	9c	172	LEU	C-N-CA	5.12	127.15	120.28
1	9m	29	GLU	CA-CB-CG	5.12	124.35	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9t	56	LEU	N-CA-C	5.12	116.87	111.28
1	9R	140	LYS	CA-C-N	5.12	127.48	120.46
1	9R	140	LYS	C-N-CA	5.12	127.48	120.46
1	am	95	GLN	CG-CD-OE1	-5.12	110.55	120.80
1	b1	86	VAL	N-CA-C	5.12	116.18	109.21
1	bm	229	ARG	O-C-N	5.12	129.17	122.87
1	18	36	VAL	CA-CB-CG1	5.12	119.11	110.40
1	bB	93	PRO	O-C-N	5.12	129.10	122.85
1	ce	210	THR	N-CA-CB	5.12	118.76	110.41
1	cl	110	THR	CA-C-N	5.12	127.40	120.38
1	cl	110	THR	C-N-CA	5.12	127.40	120.38
1	cm	148	THR	CA-C-N	5.12	131.33	121.54
1	cm	148	THR	C-N-CA	5.12	131.33	121.54
1	cB	165	VAL	CA-C-N	5.12	127.15	120.28
1	cB	165	VAL	C-N-CA	5.12	127.15	120.28
1	cO	142	VAL	CA-C-O	5.12	126.05	120.57
1	cQ	7	GLN	CB-CG-CD	5.12	121.31	112.60
1	cR	167	ARG	CA-C-N	5.12	127.10	120.44
1	cR	167	ARG	C-N-CA	5.12	127.10	120.44
1	d8	230	VAL	N-CA-CB	5.12	116.38	110.49
1	df	98	GLU	O-C-N	-5.12	116.16	121.28
1	1k	115	ILE	CA-CB-CG2	5.12	119.21	110.50
1	dw	134	ILE	CB-CG1-CD1	5.12	124.56	113.80
1	dy	152	ASP	CA-CB-CG	5.12	117.72	112.60
1	eb	163	ASP	CA-CB-CG	5.12	117.72	112.60
1	er	155	GLN	N-CA-C	5.12	117.65	109.96
1	eF	25	LYS	CA-C-O	-5.12	114.31	120.10
1	1t	53	ASN	O-C-N	-5.12	116.31	122.15
1	eY	160	PRO	N-CA-C	5.12	119.13	111.14
1	f2	128	GLU	N-CA-C	5.12	116.55	111.07
1	f5	189	LEU	N-CA-C	5.12	118.99	112.12
1	f8	107	THR	CA-C-O	5.12	125.98	120.70
1	fg	45	GLU	O-C-N	-5.12	115.77	122.59
1	fB	98	GLU	N-CA-C	5.12	118.72	109.44
1	fB	139	ASN	N-CA-CB	5.12	117.58	109.94
1	g3	61	GLY	N-CA-C	5.12	120.91	112.30
1	g3	180	GLU	N-CA-CB	5.12	117.65	110.12
1	f	131	LYS	CB-CA-C	-5.12	102.14	110.85
1	z	114	GLN	N-CA-CB	5.12	117.44	110.01
1	7	62	HIS	CG-CD2-NE2	5.12	112.33	107.20
1	gd	53	ASN	CA-C-O	-5.12	114.55	120.24
1	gg	18	ARG	CA-C-N	5.12	127.45	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gg	18	ARG	C-N-CA	5.12	127.45	120.54
1	gv	58	THR	OG1-CB-CG2	-5.12	99.05	109.30
1	gJ	92	GLU	O-C-N	-5.12	115.69	121.43
1	hi	109	SER	CA-C-N	5.12	130.27	121.87
1	hi	109	SER	C-N-CA	5.12	130.27	121.87
1	ho	174	ALA	N-CA-C	5.12	116.67	111.14
1	hz	126	VAL	CA-C-O	-5.12	115.62	120.95
1	1K	50	GLN	N-CA-C	5.12	116.86	111.28
1	hA	138	LEU	N-CA-CB	5.12	117.57	109.94
1	hD	197	ASP	N-CA-C	5.12	116.94	111.36
1	hG	30	LYS	N-CA-CB	-5.12	102.90	110.53
1	1L	140	LYS	O-C-N	-5.12	116.76	122.09
1	hN	208	ALA	O-C-N	-5.12	116.04	122.24
1	i3	15	ILE	CA-CB-CG1	5.12	119.11	110.40
1	1N	10	MET	N-CA-CB	-5.12	102.51	110.04
1	id	100	ARG	O-C-N	-5.12	115.53	122.81
1	if	27	VAL	CB-CA-C	5.12	120.10	112.16
1	if	41	SER	CA-C-O	-5.12	115.44	120.82
1	in	133	TRP	O-C-N	5.12	127.55	122.12
1	ix	83	LEU	CA-C-O	5.12	125.85	120.42
1	iD	129	ILE	CB-CA-C	-5.12	105.41	111.97
1	iI	9	GLN	CA-C-O	-5.12	115.21	121.36
1	iJ	187	GLU	CA-C-O	5.12	125.85	120.42
1	iS	27	VAL	O-C-N	-5.12	116.89	121.91
1	1T	190	LEU	CB-CA-C	-5.12	102.29	110.79
1	j8	135	ILE	N-CA-CB	5.12	116.20	110.51
1	jb	143	ARG	O-C-N	-5.12	116.69	122.12
1	jf	79	GLU	O-C-N	-5.12	116.69	122.12
1	jq	9	GLN	N-CA-CB	5.12	117.55	110.17
1	jw	120	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	jE	15	ILE	O-C-N	-5.12	117.08	122.67
1	jM	124	ILE	CA-CB-CG1	5.12	119.11	110.40
1	jW	164	TYR	CA-C-O	5.12	125.86	119.97
1	jY	170	LYS	O-C-N	-5.12	116.69	122.12
1	k0	71	GLU	N-CA-CB	-5.12	102.58	110.16
1	k5	163	ASP	CA-C-N	5.12	128.10	120.31
1	k5	163	ASP	C-N-CA	5.12	128.10	120.31
1	kd	197	ASP	O-C-N	-5.12	116.79	122.07
1	kg	200	THR	CA-C-N	5.12	127.48	120.46
1	kg	200	THR	C-N-CA	5.12	127.48	120.46
1	kh	132	ARG	N-CA-CB	5.12	117.65	110.12
1	21	185	MET	CG-SD-CE	-5.12	89.63	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ks	64	ALA	CA-C-N	5.12	127.15	120.28
1	ks	64	ALA	C-N-CA	5.12	127.15	120.28
1	kC	162	ARG	N-CA-C	5.12	117.53	111.33
1	kM	96	MET	CA-C-O	5.12	126.23	120.70
1	24	48	THR	CA-C-N	5.12	124.62	119.19
1	24	48	THR	C-N-CA	5.12	124.62	119.19
1	l2	29	GLU	CA-C-O	5.12	125.93	120.24
1	l2	90	PRO	O-C-N	-5.12	115.72	122.64
1	l9	24	VAL	CB-CA-C	5.12	118.44	111.88
1	lf	116	GLY	CA-C-O	5.12	125.82	120.80
1	lh	225	GLY	O-C-N	5.12	128.67	122.32
1	ll	188	THR	N-CA-CB	5.12	117.44	110.01
1	ls	23	TRP	CA-CB-CG	5.12	123.33	113.60
1	lt	99	PRO	N-CA-CB	5.12	108.63	103.25
1	29	44	SER	N-CA-CB	5.12	118.90	110.39
1	2a	36	VAL	CA-C-N	5.12	123.47	120.24
1	2a	36	VAL	C-N-CA	5.12	123.47	120.24
1	lM	176	GLN	CG-CD-OE1	5.12	131.05	120.80
1	2F	140	LYS	O-C-N	-5.12	116.69	122.12
1	2M	203	LYS	N-CA-C	5.12	116.86	111.28
1	2R	177	ALA	O-C-N	-5.12	117.88	123.26
1	30	195	ASN	CA-C-N	5.12	125.16	119.32
1	30	195	ASN	C-N-CA	5.12	125.16	119.32
1	37	47	ALA	N-CA-C	5.12	117.73	110.10
1	39	159	GLU	CA-C-N	5.12	125.41	119.93
1	39	159	GLU	C-N-CA	5.12	125.41	119.93
1	3i	37	ILE	O-C-N	-5.12	115.26	121.10
1	3x	150	ILE	N-CA-C	5.12	120.00	109.34
1	3B	70	LYS	CB-CG-CD	5.12	123.08	111.30
1	3F	133	TRP	O-C-N	-5.12	116.69	122.12
1	3G	80	TRP	CB-CG-CD1	-5.12	119.22	126.90
1	3J	164	TYR	CA-C-N	5.12	127.48	120.46
1	3J	164	TYR	C-N-CA	5.12	127.48	120.46
1	3L	162	ARG	CD-NE-CZ	5.12	131.57	124.40
1	3N	23	TRP	CB-CG-CD2	5.12	133.97	126.80
1	3W	9	GLN	OE1-CD-NE2	5.12	127.72	122.60
1	3X	176	GLN	N-CA-C	5.12	118.51	111.54
1	46	135	ILE	N-CA-C	5.12	117.49	111.09
1	47	133	TRP	CB-CG-CD2	-5.12	119.63	126.80
1	4f	64	ALA	CB-CA-C	-5.12	102.84	110.88
1	4j	111	LEU	N-CA-C	5.12	117.60	111.71
1	4k	68	MET	N-CA-CB	5.12	117.44	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4s	229	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	4z	77	ALA	CA-C-N	5.12	127.56	120.29
1	4z	77	ALA	C-N-CA	5.12	127.56	120.29
1	4F	159	GLU	CB-CG-CD	5.12	121.31	112.60
1	4N	126	VAL	O-C-N	-5.12	116.17	122.57
1	4X	23	TRP	CB-CG-CD1	-5.12	119.21	126.90
1	50	188	THR	CA-CB-OG1	5.12	117.28	109.60
1	53	61	GLY	CA-C-N	5.12	131.33	121.54
1	53	61	GLY	C-N-CA	5.12	131.33	121.54
1	59	168	PHE	CB-CA-C	5.12	118.92	110.88
1	5g	31	ALA	CB-CA-C	-5.12	110.65	116.54
1	5n	125	PRO	N-CA-CB	-5.12	98.44	102.28
1	5A	46	GLY	CA-C-O	5.12	126.24	119.58
1	5A	228	ALA	CA-C-N	5.12	130.38	123.11
1	5A	228	ALA	C-N-CA	5.12	130.38	123.11
1	5M	230	VAL	N-CA-C	5.12	115.70	109.30
1	5T	199	LYS	N-CA-C	5.12	116.86	111.28
1	60	201	ILE	CA-C-N	5.12	127.10	120.44
1	60	201	ILE	C-N-CA	5.12	127.10	120.44
1	6a	22	ALA	N-CA-CB	-5.12	102.58	110.16
1	6h	106	GLY	O-C-N	-5.12	116.13	122.23
1	6l	94	GLY	N-CA-C	-5.12	108.16	115.64
1	6l	150	ILE	CA-C-O	-5.12	115.42	120.85
1	6s	110	THR	CA-C-N	5.12	127.14	120.28
1	6s	110	THR	C-N-CA	5.12	127.14	120.28
1	6u	178	SER	N-CA-C	5.12	116.94	110.33
1	6F	29	GLU	CB-CA-C	-5.12	102.83	110.88
1	6L	104	ILE	O-C-N	5.12	126.84	121.87
1	6O	201	ILE	N-CA-C	5.12	115.34	110.42
1	6S	26	VAL	CA-C-N	-5.12	114.10	120.56
1	6S	26	VAL	C-N-CA	-5.12	114.10	120.56
1	6V	143	ARG	CA-C-O	-5.12	115.12	120.55
1	7a	52	LEU	CA-C-N	5.12	127.14	120.28
1	7a	52	LEU	C-N-CA	5.12	127.14	120.28
1	7c	73	ILE	CA-C-O	-5.12	115.62	120.95
1	7c	187	GLU	CB-CG-CD	5.12	121.31	112.60
1	7i	104	ILE	CA-C-O	5.12	126.28	120.95
1	7q	166	ASP	CA-CB-CG	5.12	117.72	112.60
1	7O	132	ARG	CA-C-O	5.12	125.98	120.70
1	7P	72	THR	CA-C-N	5.12	127.69	120.42
1	7P	72	THR	C-N-CA	5.12	127.69	120.42
1	7V	154	ARG	NH1-CZ-NH2	-5.12	112.64	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	82	226	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	8h	84	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	8l	162	ARG	N-CA-C	5.12	119.82	111.37
1	8G	126	VAL	N-CA-C	5.12	115.84	110.62
1	8H	104	ILE	O-C-N	5.12	128.76	122.05
1	8Q	182	LYS	CA-C-N	5.12	127.56	120.29
1	8Q	182	LYS	C-N-CA	5.12	127.56	120.29
1	90	86	VAL	CA-CB-CG1	5.12	119.11	110.40
1	91	8	GLY	CA-C-N	5.12	130.81	121.89
1	91	8	GLY	C-N-CA	5.12	130.81	121.89
1	93	124	ILE	O-C-N	-5.12	115.26	121.10
1	98	131	LYS	CA-C-O	5.12	125.98	120.55
1	9e	203	LYS	O-C-N	-5.12	115.97	122.27
1	9t	3	VAL	CA-C-O	5.12	125.29	121.09
1	9A	12	HIS	O-C-N	-5.12	117.20	123.30
1	9F	119	THR	N-CA-CB	5.12	118.44	110.80
1	9P	32	PHE	N-CA-C	-5.12	106.78	112.57
1	9U	142	VAL	CA-C-O	-5.12	115.74	121.17
1	9V	200	THR	N-CA-C	5.12	116.86	111.28
1	a8	155	GLN	CA-C-N	5.12	129.48	121.64
1	a8	155	GLN	C-N-CA	5.12	129.48	121.64
1	ag	84	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	ak	218	CYS	N-CA-CB	5.12	119.15	110.49
1	ax	220	GLY	CA-C-O	5.12	129.49	120.57
1	aB	166	ASP	CA-CB-CG	5.12	117.72	112.60
1	aJ	156	GLY	CA-C-N	5.12	124.43	118.85
1	aJ	156	GLY	C-N-CA	5.12	124.43	118.85
1	aL	20	LEU	O-C-N	5.12	127.55	122.12
1	aY	125	PRO	CB-CA-C	5.12	120.25	112.10
1	aZ	221	VAL	N-CA-C	5.12	117.88	109.78
1	bk	155	GLN	N-CA-C	5.12	117.59	109.24
1	bp	129	ILE	O-C-N	-5.12	116.57	121.90
1	br	14	ALA	CA-C-N	5.12	127.95	120.98
1	br	14	ALA	C-N-CA	5.12	127.95	120.98
1	by	73	ILE	CA-CB-CG2	-5.12	101.79	110.50
1	bB	184	TRP	CG-CD1-NE1	-5.12	103.54	110.20
1	bN	154	ARG	N-CA-C	5.12	117.03	108.99
1	bS	105	ALA	CA-C-O	5.12	125.85	120.42
1	bT	200	THR	OG1-CB-CG2	-5.12	99.05	109.30
1	bY	94	GLY	N-CA-C	5.12	121.84	114.10
1	c7	68	MET	CA-CB-CG	5.12	124.35	114.10
1	c9	177	ALA	O-C-N	-5.12	116.16	122.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ca	120	HIS	N-CA-C	5.12	116.71	110.41
1	cp	100	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	cp	158	LYS	N-CA-C	5.12	116.67	111.14
1	cp	183	ASN	O-C-N	-5.12	116.69	122.12
1	1e	152	ASP	CB-CA-C	5.12	119.32	111.02
1	cq	159	GLU	CA-C-N	5.12	126.24	119.84
1	cq	159	GLU	C-N-CA	5.12	126.24	119.84
1	cu	186	THR	O-C-N	-5.12	115.97	122.27
1	cv	189	LEU	N-CA-C	5.12	116.55	111.07
1	cw	62	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	cx	12	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	cx	121	ASN	CA-C-O	5.12	123.59	119.59
1	cB	13	GLN	O-C-N	-5.12	116.94	123.24
1	cE	50	GLN	N-CA-C	5.12	116.86	111.28
1	cH	13	GLN	CB-CA-C	5.12	118.20	109.80
1	cH	217	ALA	N-CA-C	5.12	117.86	110.28
1	cQ	226	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	d0	166	ASP	N-CA-C	5.12	117.26	111.11
1	d4	56	LEU	CA-C-N	5.12	127.56	120.29
1	d4	56	LEU	C-N-CA	5.12	127.56	120.29
1	d6	105	ALA	CB-CA-C	-5.12	100.83	110.67
1	d7	161	PHE	CD1-CG-CD2	5.12	126.28	118.60
1	1j	68	MET	CG-SD-CE	-5.12	89.63	100.90
1	dg	86	VAL	CA-CB-CG2	5.12	119.11	110.40
1	dk	82	ARG	O-C-N	-5.12	116.69	122.12
1	dk	84	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	dp	203	LYS	N-CA-C	5.12	116.94	111.36
1	dJ	113	GLU	CB-CG-CD	5.12	121.31	112.60
1	dM	80	TRP	CH2-CZ2-CE2	5.12	124.16	117.50
1	dP	69	LEU	CA-C-O	-5.12	115.44	120.82
1	dQ	42	ALA	CB-CA-C	5.12	118.92	110.88
1	dR	117	TRP	N-CA-C	5.12	116.94	111.36
1	dR	174	ALA	N-CA-C	5.12	116.94	111.36
1	dR	220	GLY	CA-C-N	5.12	131.19	121.97
1	dR	220	GLY	C-N-CA	5.12	131.19	121.97
1	e2	17	PRO	N-CA-C	-5.12	106.86	113.57
1	e5	205	LEU	N-CA-C	-5.12	106.98	113.18
1	er	185	MET	CA-C-O	5.12	125.98	120.55
1	eu	47	ALA	O-C-N	-5.12	117.05	123.04
1	ex	73	ILE	O-C-N	-5.12	116.90	121.87
1	eK	79	GLU	CA-C-O	5.12	125.86	119.97
1	eK	84	HIS	CA-CB-CG	-5.12	108.68	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eM	145	TYR	O-C-N	-5.12	116.04	122.24
1	f0	72	THR	N-CA-C	5.12	116.86	111.28
1	f3	142	VAL	N-CA-C	5.12	115.85	110.62
1	fc	70	LYS	N-CA-CB	5.12	117.44	110.01
1	fd	134	ILE	CB-CG1-CD1	5.12	124.56	113.80
1	fg	85	PRO	N-CD-CG	5.12	110.89	103.20
1	fk	72	THR	CB-CA-C	-5.12	102.28	110.79
1	fm	17	PRO	CA-C-N	5.12	127.10	120.44
1	fm	17	PRO	C-N-CA	5.12	127.10	120.44
1	fn	76	GLU	N-CA-C	5.12	116.94	111.36
1	fn	202	LEU	CA-C-O	5.12	125.98	120.70
1	fn	226	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	fr	187	GLU	N-CA-C	5.12	116.94	111.36
1	fs	58	THR	N-CA-C	5.12	116.86	111.28
1	fu	54	THR	O-C-N	-5.12	116.76	122.09
1	fz	120	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	fK	151	LEU	CA-C-O	-5.12	114.31	120.10
1	fW	214	MET	CA-C-N	5.12	127.66	120.28
1	fW	214	MET	C-N-CA	5.12	127.66	120.28
1	fX	119	THR	N-CA-CB	5.12	118.17	110.53
1	fX	170	LYS	O-C-N	-5.12	116.31	122.15
1	g1	104	ILE	CB-CA-C	-5.12	105.15	112.22
1	g5	21	ASN	O-C-N	-5.12	116.31	122.15
1	g6	154	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	1B	33	SER	CA-C-N	5.12	125.41	119.47
1	1B	33	SER	C-N-CA	5.12	125.41	119.47
1	0	1	PRO	CB-CA-C	5.12	119.84	110.10
1	c	135	ILE	CA-C-N	5.12	127.15	120.28
1	c	135	ILE	C-N-CA	5.12	127.15	120.28
1	d	148	THR	N-CA-CB	5.12	117.57	109.83
1	f	12	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	1	149	SER	N-CA-CB	5.12	117.89	109.95
1	m	117	TRP	CD2-CE2-CZ2	-5.12	117.28	122.40
1	C	87	HIS	CA-C-N	5.12	128.49	120.75
1	C	87	HIS	C-N-CA	5.12	128.49	120.75
1	C	204	ALA	N-CA-C	5.12	116.94	111.36
1	8	134	ILE	CA-C-N	5.12	127.48	120.46
1	8	134	ILE	C-N-CA	5.12	127.48	120.46
1	9	41	SER	CA-C-N	5.12	127.10	120.44
1	9	41	SER	C-N-CA	5.12	127.10	120.44
1	gb	180	GLU	CA-C-N	5.12	127.01	120.56
1	gb	180	GLU	C-N-CA	5.12	127.01	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	47	ALA	CA-C-O	5.12	126.82	121.19
1	1C	106	GLY	CA-C-N	5.12	127.66	120.28
1	1C	106	GLY	C-N-CA	5.12	127.66	120.28
1	gn	168	PHE	N-CA-CB	-5.12	102.59	110.12
1	go	34	PRO	N-CA-C	5.12	123.02	112.47
1	1D	214	MET	CG-SD-CE	-5.12	89.64	100.90
1	gt	99	PRO	N-CA-C	5.12	119.23	111.19
1	gR	103	ASP	O-C-N	-5.12	116.69	122.12
1	gV	87	HIS	CA-CB-CG	5.12	118.92	113.80
1	h3	112	GLN	O-C-N	-5.12	116.69	122.12
1	ha	179	GLN	N-CA-C	5.12	116.86	111.28
1	he	103	ASP	CA-C-O	5.12	125.98	120.55
1	hg	147	PRO	N-CA-CB	-5.12	97.87	103.25
1	hr	211	LEU	N-CA-CB	5.12	117.65	110.12
1	hu	120	HIS	O-C-N	-5.12	116.57	122.87
1	1K	76	GLU	N-CA-C	5.12	116.86	111.28
1	hF	64	ALA	N-CA-CB	5.12	117.60	109.82
1	hN	216	THR	N-CA-CB	5.12	119.01	110.41
1	hV	112	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	i0	162	ARG	CA-C-N	5.12	127.14	120.28
1	i0	162	ARG	C-N-CA	5.12	127.14	120.28
1	i1	92	GLU	CB-CG-CD	-5.12	103.89	112.60
1	i5	98	GLU	CA-C-O	-5.12	114.94	119.75
1	i8	68	MET	CA-C-O	5.12	126.20	120.82
1	i9	64	ALA	CA-C-O	5.12	125.85	120.42
1	id	119	THR	CA-CB-CG2	-5.12	101.79	110.50
1	im	186	THR	O-C-N	-5.12	116.79	122.07
1	is	25	LYS	N-CA-C	5.12	117.76	111.82
1	iy	86	VAL	CA-C-O	5.12	126.87	121.59
1	iz	139	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	1S	154	ARG	N-CA-C	5.12	115.92	108.14
1	iS	103	ASP	CA-CB-CG	-5.12	107.48	112.60
1	j0	15	ILE	CB-CG1-CD1	5.12	124.56	113.80
1	j4	91	ILE	O-C-N	-5.12	117.03	122.61
1	j7	58	THR	N-CA-CB	5.12	118.50	110.46
1	j9	200	THR	CA-CB-OG1	5.12	117.28	109.60
1	jg	179	GLN	N-CA-C	5.12	117.26	111.11
1	ji	120	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	jk	98	GLU	CB-CA-C	5.12	115.78	108.76
1	jn	120	HIS	O-C-N	-5.12	115.78	122.59
1	jt	121	ASN	CA-C-O	-5.12	114.47	119.69
1	jt	203	LYS	CG-CD-CE	5.12	123.08	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jF	21	ASN	O-C-N	-5.12	116.31	122.15
1	jI	100	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	jO	197	ASP	N-CA-C	5.12	117.27	111.02
1	jP	117	TRP	N-CA-C	5.12	116.55	111.07
1	jQ	44	SER	N-CA-C	5.12	119.17	113.02
1	k5	208	ALA	CA-C-N	5.12	128.12	120.90
1	k5	208	ALA	C-N-CA	5.12	128.12	120.90
1	ka	195	ASN	CA-CB-CG	5.12	117.72	112.60
1	ki	200	THR	CA-CB-OG1	5.12	117.28	109.60
1	21	3	VAL	N-CA-C	-5.12	101.32	108.80
1	kD	40	PHE	CA-CB-CG	-5.12	108.68	113.80
1	kL	89	GLY	CA-C-N	5.12	126.24	119.84
1	kL	89	GLY	C-N-CA	5.12	126.24	119.84
1	kL	225	GLY	CA-C-N	-5.12	114.87	122.35
1	kL	225	GLY	C-N-CA	-5.12	114.87	122.35
1	24	190	LEU	CA-C-N	5.12	127.69	120.42
1	24	190	LEU	C-N-CA	5.12	127.69	120.42
1	kS	145	TYR	O-C-N	-5.12	115.78	122.59
1	kZ	86	VAL	CA-C-O	5.12	127.44	120.99
1	l4	18	ARG	N-CA-C	5.12	116.86	111.28
1	l9	20	LEU	N-CA-C	5.12	116.94	111.36
1	la	40	PHE	CA-C-O	-5.12	115.44	120.82
1	lb	21	ASN	CA-CB-CG	5.12	117.72	112.60
1	lg	45	GLU	N-CA-C	5.12	118.22	110.64
1	lg	62	HIS	CG-ND1-CE1	-5.12	100.59	109.30
1	ll	197	ASP	O-C-N	-5.12	115.97	122.27
1	lt	214	MET	O-C-N	-5.12	115.97	122.27
1	lB	44	SER	O-C-N	-5.12	115.96	122.26
1	lC	173	ARG	NE-CZ-NH2	5.12	123.81	119.20
1	lH	179	GLN	CA-C-O	5.12	126.16	120.63
1	lL	166	ASP	O-C-N	5.12	127.35	122.07
1	2f	106	GLY	CA-C-O	5.12	124.68	119.10
1	2f	223	GLY	CA-C-N	5.12	126.24	119.84
1	2f	223	GLY	C-N-CA	5.12	126.24	119.84
1	2o	197	ASP	N-CA-C	5.12	116.94	111.36
1	2r	82	ARG	O-C-N	-5.12	116.80	122.07
1	2u	188	THR	CB-CA-C	-5.12	102.76	111.26
1	2x	91	ILE	N-CA-C	5.12	115.60	108.84
1	2x	223	GLY	CA-C-N	5.12	125.11	119.89
1	2x	223	GLY	C-N-CA	5.12	125.11	119.89
1	2z	37	ILE	CA-C-O	-5.12	113.09	119.95
1	2C	148	THR	CA-CB-OG1	5.12	117.28	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2F	21	ASN	CA-CB-CG	5.12	117.72	112.60
1	2Q	11	VAL	O-C-N	-5.12	117.59	122.97
1	32	153	ILE	O-C-N	-5.12	117.80	123.18
1	3d	50	GLN	CA-C-N	5.12	127.10	120.44
1	3d	50	GLN	C-N-CA	5.12	127.10	120.44
1	3d	53	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	3d	82	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	3e	197	ASP	N-CA-C	-5.12	105.70	111.28
1	3j	180	GLU	O-C-N	5.12	127.34	122.07
1	3l	189	LEU	CA-C-N	5.12	127.45	120.54
1	3l	189	LEU	C-N-CA	5.12	127.45	120.54
1	3o	82	ARG	N-CA-CB	5.12	117.44	110.01
1	3u	111	LEU	O-C-N	-5.12	116.31	122.15
1	3z	193	ASN	CA-C-N	5.12	128.14	120.87
1	3z	193	ASN	C-N-CA	5.12	128.14	120.87
1	3D	133	TRP	CA-C-N	5.12	127.48	120.46
1	3D	133	TRP	C-N-CA	5.12	127.48	120.46
1	3P	140	LYS	CA-C-N	5.12	127.48	120.46
1	3P	140	LYS	C-N-CA	5.12	127.48	120.46
1	3T	166	ASP	CA-C-O	-5.12	115.42	120.90
1	3Y	140	LYS	CA-C-O	5.12	126.20	120.82
1	3Y	154	ARG	CA-C-O	-5.12	115.80	121.33
1	4f	17	PRO	N-CD-CG	5.12	110.88	103.20
1	4p	217	ALA	CA-C-O	-5.12	115.55	121.49
1	4s	23	TRP	CA-CB-CG	5.12	123.33	113.60
1	4G	214	MET	N-CA-C	5.12	119.24	112.89
1	4S	59	VAL	O-C-N	-5.12	116.69	122.94
1	4T	117	TRP	CE2-CD2-CE3	5.12	123.92	118.80
1	4Y	148	THR	CA-C-N	5.12	128.04	120.82
1	4Y	148	THR	C-N-CA	5.12	128.04	120.82
1	51	62	HIS	ND1-CG-CD2	5.12	111.22	106.10
1	53	205	LEU	CA-C-N	5.12	129.91	121.87
1	53	205	LEU	C-N-CA	5.12	129.91	121.87
1	53	205	LEU	N-CA-CB	-5.12	102.57	110.20
1	55	214	MET	CA-C-N	5.12	127.65	120.28
1	55	214	MET	C-N-CA	5.12	127.65	120.28
1	5a	70	LYS	CB-CA-C	5.12	118.92	110.88
1	5a	102	SER	CA-C-N	5.12	127.14	120.28
1	5a	102	SER	C-N-CA	5.12	127.14	120.28
1	5a	118	MET	CA-C-O	5.12	125.28	119.18
1	5f	28	GLU	N-CA-CB	5.12	117.50	110.07
1	5r	82	ARG	CA-C-O	5.12	125.98	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5s	165	VAL	N-CA-CB	5.12	117.50	110.54
1	5y	114	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	5E	80	TRP	CB-CG-CD2	5.12	133.97	126.80
1	5N	145	TYR	CA-C-O	-5.12	113.75	119.79
1	65	109	SER	N-CA-CB	5.12	119.28	110.68
1	69	120	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	6a	119	THR	N-CA-CB	5.12	118.39	110.81
1	6e	56	LEU	CA-C-N	5.12	127.14	120.28
1	6e	56	LEU	C-N-CA	5.12	127.14	120.28
1	6i	115	ILE	O-C-N	-5.12	116.55	121.83
1	6l	183	ASN	N-CA-C	5.12	116.94	111.36
1	6n	74	ASN	N-CA-C	5.12	116.94	111.36
1	6r	199	LYS	CA-C-N	5.12	127.45	120.54
1	6r	199	LYS	C-N-CA	5.12	127.45	120.54
1	6z	193	ASN	CA-C-N	5.12	128.12	120.90
1	6z	193	ASN	C-N-CA	5.12	128.12	120.90
1	6E	7	GLN	N-CA-CB	5.12	120.30	111.13
1	6Q	187	GLU	N-CA-C	5.12	116.55	111.07
1	6S	199	LYS	CA-C-O	-5.12	115.12	120.55
1	77	154	ARG	CG-CD-NE	-5.12	100.73	112.00
1	7g	135	ILE	O-C-N	-5.12	116.82	121.94
1	7k	210	THR	N-CA-CB	5.12	117.57	110.04
1	7m	27	VAL	CA-C-N	5.12	127.91	120.79
1	7m	27	VAL	C-N-CA	5.12	127.91	120.79
1	7A	182	LYS	O-C-N	-5.12	116.69	122.12
1	7B	174	ALA	N-CA-C	5.12	116.94	111.36
1	7D	192	GLN	N-CA-C	5.12	117.76	111.82
1	7G	229	ARG	O-C-N	-5.12	117.48	123.27
1	7M	128	GLU	O-C-N	-5.12	116.69	122.12
1	7M	164	TYR	O-C-N	-5.12	116.69	122.12
1	7P	141	ILE	CA-C-O	-5.12	115.62	120.95
1	7R	140	LYS	O-C-N	-5.12	116.23	122.22
1	84	126	VAL	CA-CB-CG2	5.12	119.11	110.40
1	87	113	GLU	CA-C-N	5.12	127.10	120.44
1	87	113	GLU	C-N-CA	5.12	127.10	120.44
1	8j	159	GLU	CA-C-N	5.12	126.24	119.84
1	8j	159	GLU	C-N-CA	5.12	126.24	119.84
1	8k	168	PHE	CA-CB-CG	-5.12	108.68	113.80
1	8p	144	MET	O-C-N	5.12	127.55	122.12
1	8q	50	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	8y	92	GLU	CA-C-N	5.12	126.24	119.84
1	8y	92	GLU	C-N-CA	5.12	126.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8A	120	HIS	CB-CG-ND1	5.12	130.38	122.70
1	8J	101	GLY	N-CA-C	5.12	119.08	112.83
1	8N	36	VAL	CA-C-O	-5.12	115.72	121.05
1	96	226	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	9a	50	GLN	N-CA-C	5.12	116.86	111.28
1	9a	132	ARG	N-CA-C	5.12	117.76	111.82
1	9h	10	MET	N-CA-C	5.12	117.72	110.50
1	9h	196	PRO	N-CA-C	5.12	123.02	112.47
1	9i	120	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	9m	3	VAL	O-C-N	-5.12	117.37	123.00
1	9n	35	GLU	CA-C-N	5.12	127.21	120.60
1	9n	35	GLU	C-N-CA	5.12	127.21	120.60
1	9n	216	THR	CA-CB-OG1	5.12	117.28	109.60
1	9p	192	GLN	CA-C-N	5.12	130.43	122.49
1	9p	192	GLN	C-N-CA	5.12	130.43	122.49
1	9u	166	ASP	CA-C-O	-5.12	115.62	121.00
1	9v	178	SER	CA-CB-OG	5.12	121.34	111.10
1	9y	76	GLU	CA-C-N	5.12	127.14	120.28
1	9y	76	GLU	C-N-CA	5.12	127.14	120.28
1	9y	138	LEU	CB-CA-C	-5.12	100.52	110.46
1	9W	158	LYS	CA-C-O	5.12	125.41	119.32
1	a1	214	MET	CG-SD-CE	-5.12	89.63	100.90
1	ag	124	ILE	CA-C-O	5.12	121.99	119.12
1	aj	73	ILE	O-C-N	-5.12	116.89	121.91
1	al	74	ASN	CA-C-N	5.12	127.14	120.28
1	al	74	ASN	C-N-CA	5.12	127.14	120.28
1	ao	162	ARG	N-CA-C	5.12	116.86	111.28
1	ar	122	PRO	N-CD-CG	-5.12	97.65	103.80
1	aw	172	LEU	CA-C-N	5.12	128.09	120.31
1	aw	172	LEU	C-N-CA	5.12	128.09	120.31
1	aC	62	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	b7	109	SER	N-CA-C	5.12	118.41	110.17
1	bf	82	ARG	CA-C-O	5.12	126.20	120.82
1	bh	104	ILE	N-CA-C	5.12	115.84	110.62
1	bh	139	ASN	N-CA-C	5.12	116.86	111.28
1	bj	117	TRP	CA-C-N	5.12	128.09	120.31
1	bj	117	TRP	C-N-CA	5.12	128.09	120.31
1	bw	170	LYS	CA-C-O	5.12	125.98	120.55
1	bw	213	GLU	N-CA-C	5.12	116.86	111.28
1	bA	84	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	bK	186	THR	N-CA-C	5.12	117.25	111.11
1	1a	162	ARG	CA-C-N	5.12	127.41	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1a	162	ARG	C-N-CA	5.12	127.41	120.44
1	c8	53	ASN	CA-CB-CG	-5.12	107.48	112.60
1	c9	21	ASN	CA-C-N	5.12	127.14	120.28
1	c9	21	ASN	C-N-CA	5.12	127.14	120.28
1	c9	178	SER	CA-C-O	5.12	127.83	120.51
1	cg	209	ALA	CA-C-N	5.12	130.29	120.97
1	cg	209	ALA	C-N-CA	5.12	130.29	120.97
1	ck	77	ALA	N-CA-C	5.12	116.55	111.07
1	cA	18	ARG	CA-C-N	5.12	127.56	120.29
1	cA	18	ARG	C-N-CA	5.12	127.56	120.29
1	cC	195	ASN	N-CA-C	-5.12	103.01	110.08
1	cJ	130	TYR	CA-CB-CG	5.12	123.12	113.90
1	cQ	181	VAL	CB-CA-C	-5.12	105.38	112.24
1	cV	123	PRO	N-CA-C	5.12	123.02	112.47
1	d7	68	MET	N-CA-CB	5.12	118.22	110.28
1	d9	5	ASN	N-CA-CB	5.12	117.50	109.97
1	da	110	THR	N-CA-CB	5.12	118.24	110.45
1	dd	173	ARG	CD-NE-CZ	5.12	131.57	124.40
1	df	40	PHE	O-C-N	-5.12	116.69	122.12
1	dj	77	ALA	CA-C-N	5.12	127.41	120.44
1	dj	77	ALA	C-N-CA	5.12	127.41	120.44
1	dl	87	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	dn	48	THR	N-CA-CB	5.12	117.15	109.88
1	ds	76	GLU	CB-CG-CD	5.12	121.31	112.60
1	dw	226	HIS	ND1-CG-CD2	-5.12	100.98	106.10
1	dD	134	ILE	CA-C-O	5.12	126.38	121.05
1	dH	94	GLY	CA-C-N	5.12	130.62	122.94
1	dH	94	GLY	C-N-CA	5.12	130.62	122.94
1	dI	148	THR	O-C-N	-5.12	115.78	122.59
1	dI	184	TRP	CA-C-N	5.12	127.45	120.54
1	dI	184	TRP	C-N-CA	5.12	127.45	120.54
1	dP	201	ILE	CB-CA-C	-5.12	105.15	112.22
1	dQ	135	ILE	N-CA-CB	5.12	116.54	110.55
1	e0	195	ASN	N-CA-C	5.12	116.14	109.64
1	e3	143	ARG	CG-CD-NE	-5.12	100.73	112.00
1	eh	71	GLU	CA-C-O	5.12	125.98	120.55
1	eo	10	MET	CA-C-N	-5.12	116.14	123.11
1	eo	10	MET	C-N-CA	-5.12	116.14	123.11
1	ey	12	HIS	O-C-N	-5.12	116.51	122.96
1	eC	82	ARG	CA-C-N	5.12	129.39	120.68
1	eC	82	ARG	C-N-CA	5.12	129.39	120.68
1	eF	148	THR	CB-CA-C	5.12	118.33	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1s	4	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	eJ	12	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	f4	48	THR	CA-C-N	5.12	126.24	119.84
1	f4	48	THR	C-N-CA	5.12	126.24	119.84
1	fe	87	HIS	N-CA-C	5.12	116.85	108.76
1	fh	57	ASN	CA-CB-CG	-5.12	107.48	112.60
1	ft	116	GLY	CA-C-N	5.12	127.14	120.28
1	ft	116	GLY	C-N-CA	5.12	127.14	120.28
1	1x	213	GLU	O-C-N	-5.12	115.09	122.36
1	fx	162	ARG	O-C-N	-5.12	116.79	122.07
1	fE	84	HIS	CA-CB-CG	-5.12	108.68	113.80
1	fQ	208	ALA	N-CA-C	-5.12	106.34	112.59
1	g5	41	SER	N-CA-CB	5.12	117.44	110.01
1	h	225	GLY	CA-C-O	5.12	129.48	120.57
1	j	53	ASN	CA-C-N	5.12	127.41	120.44
1	j	53	ASN	C-N-CA	5.12	127.41	120.44
1	j	128	GLU	N-CA-CB	5.12	117.65	110.12
1	1	168	PHE	CB-CA-C	5.12	120.61	110.42
1	D	76	GLU	N-CA-C	5.12	117.53	111.33
1	I	228	ALA	O-C-N	-5.12	117.13	123.33
1	J	137	GLY	N-CA-C	5.12	118.84	112.64
1	Q	37	ILE	CB-CA-C	-5.12	107.29	114.00
1	9	180	GLU	CB-CA-C	5.12	119.29	110.79
1	9	229	ARG	CA-C-O	-5.12	115.67	121.25
1	gY	132	ARG	N-CA-CB	-5.12	102.59	110.12
1	he	42	ALA	N-CA-CB	-5.12	102.34	110.28
1	he	226	HIS	CA-C-O	5.12	125.63	119.59
1	hJ	161	PHE	N-CA-CB	-5.12	103.00	110.53
1	hQ	186	THR	CA-C-O	5.12	125.85	120.42
1	ic	117	TRP	CA-C-O	5.12	125.98	120.55
1	ig	67	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	iM	137	GLY	N-CA-C	5.12	118.84	112.64
1	iU	193	ASN	CA-C-N	5.12	129.52	120.87
1	iU	193	ASN	C-N-CA	5.12	129.52	120.87
1	jv	126	VAL	CA-C-O	5.12	126.60	121.17
1	jW	39	MET	CA-C-N	5.12	127.10	120.44
1	jW	39	MET	C-N-CA	5.12	127.10	120.44
1	jX	79	GLU	O-C-N	-5.12	116.69	122.12
1	jX	158	LYS	CA-C-O	5.12	124.68	119.05
1	20	84	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	21	42	ALA	N-CA-CB	-5.12	102.59	110.12
1	kB	112	GLN	CA-C-O	5.12	126.20	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kJ	10	MET	N-CA-CB	5.12	119.14	110.49
1	kR	80	TRP	CB-CG-CD1	-5.12	119.22	126.90
1	kX	52	LEU	CA-C-N	5.12	127.10	120.44
1	kX	52	LEU	C-N-CA	5.12	127.10	120.44
1	l1	33	SER	CA-C-O	-5.12	114.84	120.17
1	l4	176	GLN	N-CA-CB	-5.12	103.17	110.80
1	l6	64	ALA	CA-C-O	-5.12	115.12	120.55
1	l6	150	ILE	N-CA-CB	5.12	118.26	110.58
1	lm	28	GLU	O-C-N	-5.12	115.39	122.46
1	lv	181	VAL	CA-C-O	5.12	126.59	121.27
1	lA	179	GLN	N-CA-C	5.12	117.60	111.71
1	29	183	ASN	N-CA-CB	5.12	117.43	110.01
1	lK	21	ASN	N-CA-C	5.12	116.86	111.28
1	2f	60	GLY	N-CA-C	-5.12	103.86	111.03
1	2B	50	GLN	N-CA-C	5.12	116.86	111.28
1	35	41	SER	N-CA-CB	5.12	117.65	110.12
1	3f	166	ASP	CA-CB-CG	5.12	117.72	112.60
1	3g	76	GLU	CA-C-N	5.12	127.14	120.28
1	3g	76	GLU	C-N-CA	5.12	127.14	120.28
1	3q	65	ALA	CA-C-N	5.12	127.09	120.44
1	3q	65	ALA	C-N-CA	5.12	127.09	120.44
1	3R	23	TRP	CB-CG-CD1	-5.12	119.22	126.90
1	3R	71	GLU	CB-CG-CD	5.12	121.30	112.60
1	3X	12	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	4e	83	LEU	CA-C-O	5.12	126.20	120.82
1	4t	25	LYS	N-CA-C	-5.12	105.78	112.23
1	4A	43	LEU	N-CA-C	5.12	117.73	110.10
1	4Q	80	TRP	CA-C-N	5.12	127.91	120.79
1	4Q	80	TRP	C-N-CA	5.12	127.91	120.79
1	5b	149	SER	N-CA-CB	5.12	117.57	110.04
1	5T	179	GLN	CA-C-O	5.12	125.85	120.42
1	5V	226	HIS	N-CA-C	5.12	117.64	109.96
1	64	30	LYS	N-CA-CB	-5.12	102.77	111.17
1	6g	59	VAL	N-CA-CB	-5.12	105.14	110.82
1	6I	204	ALA	N-CA-CB	-5.12	102.34	110.28
1	6K	5	ASN	CA-C-N	5.12	128.04	120.82
1	6K	5	ASN	C-N-CA	5.12	128.04	120.82
1	6Y	6	LEU	O-C-N	-5.12	116.33	122.27
1	73	42	ALA	CA-C-O	5.12	125.68	119.38
1	76	52	LEU	O-C-N	5.12	127.55	122.12
1	77	166	ASP	O-C-N	-5.12	116.31	122.15
1	79	89	GLY	CA-C-N	5.12	126.24	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	79	89	GLY	C-N-CA	5.12	126.24	119.84
1	7g	110	THR	N-CA-CB	5.12	117.68	110.36
1	7H	178	SER	N-CA-C	5.12	117.65	110.23
1	80	178	SER	CA-C-N	5.12	127.14	120.28
1	80	178	SER	C-N-CA	5.12	127.14	120.28
1	8b	43	LEU	N-CA-CB	-5.12	102.34	110.28
1	8c	35	GLU	CB-CG-CD	5.12	121.30	112.60
1	8f	210	THR	CA-CB-CG2	-5.12	101.80	110.50
1	8h	53	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	8o	168	PHE	CA-C-O	-5.12	115.62	121.00
1	8H	5	ASN	O-C-N	-5.12	117.28	123.27
1	9i	138	LEU	O-C-N	-5.12	116.31	122.15
1	ah	150	ILE	CA-C-N	5.12	127.14	120.28
1	ah	150	ILE	C-N-CA	5.12	127.14	120.28
1	ah	182	LYS	O-C-N	-5.12	116.69	122.12
1	am	104	ILE	CA-CB-CG1	5.12	119.10	110.40
1	aH	21	ASN	CB-CA-C	5.12	119.00	110.81
1	aY	174	ALA	CA-C-N	5.12	128.12	120.95
1	aY	174	ALA	C-N-CA	5.12	128.12	120.95
1	b3	19	THR	N-CA-CB	5.12	118.22	110.28
1	bn	212	GLU	CA-C-O	5.12	126.38	120.90
1	bB	45	GLU	N-CA-C	5.12	117.25	111.11
1	bS	162	ARG	CD-NE-CZ	5.12	131.57	124.40
1	bV	91	ILE	O-C-N	-5.12	117.24	122.82
1	c0	55	MET	CG-SD-CE	-5.12	89.64	100.90
1	c9	99	PRO	CA-C-N	5.12	132.41	121.45
1	c9	99	PRO	C-N-CA	5.12	132.41	121.45
1	ci	179	GLN	CB-CA-C	5.12	119.29	110.79
1	1f	48	THR	CA-CB-OG1	5.12	117.28	109.60
1	cC	88	ALA	CA-C-N	5.12	129.91	121.87
1	cC	88	ALA	C-N-CA	5.12	129.91	121.87
1	cH	173	ARG	NH1-CZ-NH2	-5.12	112.64	119.30
1	cI	199	LYS	N-CA-C	5.12	117.53	111.33
1	d1	25	LYS	CA-C-N	5.12	127.01	120.56
1	d1	25	LYS	C-N-CA	5.12	127.01	120.56
1	d5	27	VAL	CA-C-N	5.12	127.14	120.28
1	d5	27	VAL	C-N-CA	5.12	127.14	120.28
1	dm	48	THR	CB-CA-C	5.12	116.79	109.11
1	dq	145	TYR	N-CA-C	5.12	118.68	112.23
1	ds	70	LYS	O-C-N	-5.12	116.80	122.07
1	du	185	MET	O-C-N	-5.12	116.69	122.12
1	du	195	ASN	CA-CB-CG	5.12	117.72	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dz	84	HIS	CB-CA-C	5.12	118.98	109.51
1	dL	199	LYS	CA-C-N	5.12	128.50	120.82
1	dL	199	LYS	C-N-CA	5.12	128.50	120.82
1	dM	112	GLN	OE1-CD-NE2	5.12	127.72	122.60
1	e4	21	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	1p	48	THR	CB-CA-C	-5.12	101.41	110.47
1	ex	115	ILE	CA-CB-CG1	5.12	119.10	110.40
1	eG	84	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	eO	133	TRP	CB-CG-CD2	-5.12	119.63	126.80
1	eU	96	MET	O-C-N	-5.12	115.78	122.59
1	fe	69	LEU	N-CA-C	5.12	116.55	111.07
1	fH	170	LYS	O-C-N	-5.12	116.80	122.07
1	fN	128	GLU	N-CA-C	-5.12	105.78	112.23
1	fR	102	SER	CA-C-O	5.12	125.86	119.97
1	g4	23	TRP	CB-CA-C	5.12	119.00	110.81
1	a	93	PRO	N-CA-C	5.12	123.02	112.47
1	a	121	ASN	CA-CB-CG	-5.12	107.48	112.60
1	g	61	GLY	CA-C-O	5.12	128.00	122.47
1	g	102	SER	O-C-N	-5.12	116.69	122.12
1	H	183	ASN	O-C-N	-5.12	116.69	122.12
1	U	69	LEU	N-CA-CB	-5.12	102.59	110.01
1	g8	219	GLN	CB-CG-CD	5.12	121.30	112.60
1	g9	164	TYR	CA-C-O	-5.12	115.44	121.07
1	gg	96	MET	O-C-N	-5.12	115.78	122.59
1	gk	90	PRO	CB-CA-C	5.12	118.06	111.46
1	gp	92	GLU	CA-C-N	-5.12	114.85	121.04
1	gp	92	GLU	C-N-CA	-5.12	114.85	121.04
1	gv	84	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	gw	103	ASP	CA-C-O	5.12	125.98	120.55
1	gw	109	SER	CA-C-O	5.12	125.89	120.36
1	gy	225	GLY	N-CA-C	5.12	120.23	113.37
1	gD	18	ARG	CD-NE-CZ	5.12	131.57	124.40
1	gD	19	THR	CA-C-N	5.12	127.14	120.28
1	gD	19	THR	C-N-CA	5.12	127.14	120.28
1	gE	5	ASN	N-CA-CB	5.12	119.14	110.49
1	1F	196	PRO	CA-C-O	-5.12	112.32	119.74
1	gS	173	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	gT	162	ARG	CA-C-O	5.12	126.38	120.90
1	1G	82	ARG	N-CA-CB	5.12	118.21	110.28
1	gX	16	SER	CA-CB-OG	5.12	121.34	111.10
1	gY	23	TRP	CA-CB-CG	5.12	123.33	113.60
1	h0	36	VAL	CA-C-O	5.12	126.27	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ha	171	THR	N-CA-C	5.12	116.86	111.28
1	hf	52	LEU	O-C-N	-5.12	116.31	122.15
1	hh	119	THR	N-CA-C	-5.12	107.20	113.50
1	hh	123	PRO	N-CA-CB	5.12	107.72	103.17
1	hh	203	LYS	CA-C-O	5.12	125.98	120.55
1	hm	133	TRP	N-CA-CB	5.12	117.64	110.12
1	ho	57	ASN	CA-C-O	5.12	126.19	120.82
1	hp	27	VAL	O-C-N	-5.12	116.89	121.91
1	1K	214	MET	CG-SD-CE	-5.12	89.64	100.90
1	hH	128	GLU	N-CA-C	5.12	116.55	111.07
1	1L	120	HIS	O-C-N	-5.12	116.35	122.65
1	1L	120	HIS	CA-CB-CG	5.12	118.92	113.80
1	hQ	102	SER	O-C-N	-5.12	116.69	122.12
1	hU	173	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	1N	218	CYS	CB-CA-C	5.12	120.60	110.42
1	i8	5	ASN	CA-CB-CG	5.12	117.72	112.60
1	i8	72	THR	N-CA-CB	5.12	117.64	110.12
1	ib	25	LYS	N-CA-C	5.12	116.94	111.36
1	ic	175	GLU	CB-CG-CD	5.12	121.30	112.60
1	ie	108	THR	N-CA-CB	5.12	118.34	110.61
1	ie	196	PRO	N-CA-C	5.12	121.23	113.81
1	if	22	ALA	CA-C-N	5.12	127.14	120.28
1	if	22	ALA	C-N-CA	5.12	127.14	120.28
1	im	12	HIS	CA-C-N	5.12	130.60	122.62
1	im	12	HIS	C-N-CA	5.12	130.60	122.62
1	io	123	PRO	N-CA-C	5.12	119.25	111.11
1	ip	207	PRO	N-CA-CB	5.12	108.92	103.39
1	iq	53	ASN	CA-C-N	-5.12	113.79	120.44
1	iq	53	ASN	C-N-CA	-5.12	113.79	120.44
1	iv	35	GLU	CA-C-O	5.12	125.68	119.38
1	ix	62	HIS	CA-CB-CG	-5.12	108.68	113.80
1	iO	3	VAL	CA-C-N	5.12	128.48	120.75
1	iO	3	VAL	C-N-CA	5.12	128.48	120.75
1	iR	116	GLY	CA-C-N	5.12	127.09	120.44
1	iR	116	GLY	C-N-CA	5.12	127.09	120.44
1	iY	74	ASN	O-C-N	-5.12	116.56	122.09
1	j5	139	ASN	N-CA-C	5.12	116.86	111.28
1	j7	166	ASP	CB-CA-C	-5.12	102.62	110.81
1	jb	112	GLN	CB-CA-C	5.12	118.92	110.88
1	jm	142	VAL	CA-C-O	-5.12	115.95	121.27
1	jF	226	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	jM	23	TRP	N-CA-C	5.12	116.55	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jN	114	GLN	CA-C-O	-5.12	115.45	120.82
1	jV	112	GLN	CA-C-N	5.12	127.56	120.29
1	jV	112	GLN	C-N-CA	5.12	127.56	120.29
1	k0	139	ASN	CA-CB-CG	-5.12	107.48	112.60
1	k0	191	VAL	N-CA-C	5.12	115.89	110.72
1	k4	203	LYS	CA-C-N	5.12	127.09	120.44
1	k4	203	LYS	C-N-CA	5.12	127.09	120.44
1	k7	62	HIS	CA-CB-CG	-5.12	108.68	113.80
1	kg	203	LYS	N-CA-CB	5.12	117.64	110.12
1	kk	197	ASP	CA-CB-CG	5.12	117.72	112.60
1	kq	39	MET	CA-C-N	5.12	127.56	120.29
1	kq	39	MET	C-N-CA	5.12	127.56	120.29
1	kv	212	GLU	O-C-N	5.12	127.55	122.12
1	kx	142	VAL	N-CA-C	5.12	115.73	110.36
1	kA	195	ASN	CA-CB-CG	5.12	117.72	112.60
1	kH	80	TRP	N-CA-C	-5.12	106.30	112.54
1	kJ	55	MET	N-CA-CB	-5.12	102.60	110.12
1	kU	164	TYR	N-CA-C	5.12	116.55	111.07
1	25	54	THR	N-CA-C	5.12	116.86	111.28
1	kZ	121	ASN	CA-CB-CG	-5.12	107.48	112.60
1	l3	127	GLY	O-C-N	5.12	127.10	122.19
1	26	116	GLY	CA-C-N	5.12	127.41	120.65
1	26	116	GLY	C-N-CA	5.12	127.41	120.65
1	ld	196	PRO	N-CA-C	5.12	120.50	113.84
1	lf	84	HIS	CB-CA-C	-5.12	101.93	111.20
1	lq	153	ILE	O-C-N	-5.12	117.09	122.57
1	ly	11	VAL	O-C-N	-5.12	117.77	123.20
1	ly	92	GLU	O-C-N	-5.12	117.56	121.55
1	lE	7	GLN	N-CA-C	5.12	117.72	110.50
1	lE	26	VAL	CA-C-O	5.12	126.27	120.95
1	lE	155	GLN	O-C-N	-5.12	117.22	123.16
1	lL	161	PHE	O-C-N	-5.12	115.78	122.59
1	2b	24	VAL	CA-C-O	5.12	126.59	121.27
1	2d	178	SER	CA-C-N	5.12	128.09	120.31
1	2d	178	SER	C-N-CA	5.12	128.09	120.31
1	2e	11	VAL	CA-CB-CG1	5.12	119.10	110.40
1	2g	211	LEU	CB-CA-C	5.12	119.55	110.85
1	2k	91	ILE	CA-C-N	5.12	127.51	120.39
1	2k	91	ILE	C-N-CA	5.12	127.51	120.39
1	2s	73	ILE	O-C-N	-5.12	116.91	121.87
1	2s	86	VAL	CA-C-N	5.12	127.98	120.71
1	2s	86	VAL	C-N-CA	5.12	127.98	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2t	86	VAL	CA-C-N	5.12	129.89	121.39
1	2t	86	VAL	C-N-CA	5.12	129.89	121.39
1	2x	130	TYR	O-C-N	-5.12	115.97	122.27
1	2y	28	GLU	CB-CA-C	5.12	118.92	110.88
1	2A	152	ASP	CA-CB-CG	5.12	117.72	112.60
1	2B	88	ALA	O-C-N	-5.12	116.05	122.24
1	2D	49	PRO	CA-C-N	5.12	127.39	120.38
1	2D	49	PRO	C-N-CA	5.12	127.39	120.38
1	2G	127	GLY	CA-C-N	5.12	127.14	120.28
1	2G	127	GLY	C-N-CA	5.12	127.14	120.28
1	2U	76	GLU	O-C-N	-5.12	116.56	122.09
1	38	63	GLN	CA-CB-CG	-5.12	103.86	114.10
1	39	120	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	3l	143	ARG	CB-CG-CD	5.12	123.07	111.30
1	3n	217	ALA	CA-C-O	5.12	126.98	121.55
1	3s	229	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	3y	110	THR	CA-C-N	5.12	127.39	120.38
1	3y	110	THR	C-N-CA	5.12	127.39	120.38
1	3z	185	MET	CA-C-N	5.12	127.09	120.44
1	3z	185	MET	C-N-CA	5.12	127.09	120.44
1	3C	103	ASP	CA-C-N	5.12	127.01	120.56
1	3C	103	ASP	C-N-CA	5.12	127.01	120.56
1	4c	73	ILE	CA-C-N	5.12	127.45	120.54
1	4c	73	ILE	C-N-CA	5.12	127.45	120.54
1	4d	211	LEU	CA-C-N	5.12	127.14	120.28
1	4d	211	LEU	C-N-CA	5.12	127.14	120.28
1	4s	63	GLN	O-C-N	-5.12	115.40	122.46
1	4t	166	ASP	N-CA-C	5.12	116.67	111.14
1	4x	163	ASP	CA-C-N	5.12	127.14	120.28
1	4x	163	ASP	C-N-CA	5.12	127.14	120.28
1	4y	99	PRO	N-CD-CG	5.12	110.88	103.20
1	4O	61	GLY	O-C-N	-5.12	116.61	122.91
1	4P	163	ASP	CA-CB-CG	-5.12	107.48	112.60
1	4Z	188	THR	CB-CA-C	-5.12	102.05	110.08
1	56	180	GLU	CB-CA-C	-5.12	102.29	110.79
1	5c	137	GLY	CA-C-N	5.12	127.14	120.28
1	5c	137	GLY	C-N-CA	5.12	127.14	120.28
1	5f	204	ALA	O-C-N	-5.12	116.36	122.20
1	5x	50	GLN	N-CA-C	5.12	116.94	111.36
1	5y	12	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	5I	110	THR	CA-CB-OG1	5.12	117.28	109.60
1	5I	172	LEU	CA-C-N	5.12	127.14	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5I	172	LEU	C-N-CA	5.12	127.14	120.28
1	5K	19	THR	N-CA-C	5.12	116.86	111.28
1	60	180	GLU	CA-C-N	5.12	128.74	120.55
1	60	180	GLU	C-N-CA	5.12	128.74	120.55
1	64	21	ASN	CA-C-O	5.12	125.86	119.97
1	65	13	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	6i	107	THR	CA-C-O	-5.12	113.42	119.05
1	6p	168	PHE	N-CA-CB	-5.12	102.44	109.91
1	6u	183	ASN	CA-C-N	5.12	127.65	120.28
1	6u	183	ASN	C-N-CA	5.12	127.65	120.28
1	6A	201	ILE	CA-C-N	5.12	127.09	120.44
1	6A	201	ILE	C-N-CA	5.12	127.09	120.44
1	6C	161	PHE	CB-CA-C	5.12	120.60	110.42
1	6N	58	THR	CA-C-O	-5.12	115.10	120.63
1	6N	214	MET	O-C-N	-5.12	116.69	122.12
1	6O	164	TYR	N-CA-CB	-5.12	102.60	110.12
1	6P	217	ALA	CA-C-O	-5.12	115.44	120.82
1	73	139	ASN	O-C-N	-5.12	116.69	122.12
1	76	183	ASN	CA-C-N	5.12	127.39	120.38
1	76	183	ASN	C-N-CA	5.12	127.39	120.38
1	78	18	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	78	172	LEU	N-CA-CB	-5.12	101.89	110.39
1	7b	202	LEU	N-CA-C	5.12	117.60	111.71
1	7f	65	ALA	N-CA-C	5.12	116.94	111.36
1	7g	52	LEU	N-CA-CB	5.12	117.43	110.01
1	7m	208	ALA	N-CA-CB	-5.12	103.07	110.70
1	7u	99	PRO	N-CA-C	5.12	119.24	111.15
1	7C	36	VAL	N-CA-CB	5.12	116.19	110.51
1	7N	49	PRO	CB-CA-C	5.12	120.01	111.56
1	7P	84	HIS	CA-C-O	5.12	125.91	120.08
1	7S	229	ARG	N-CA-CB	5.12	117.50	109.97
1	7Z	92	GLU	N-CA-C	5.12	116.52	110.07
1	85	162	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	8i	143	ARG	O-C-N	-5.12	116.69	122.12
1	8L	188	THR	N-CA-CB	5.12	119.14	110.49
1	8M	7	GLN	CA-C-O	5.12	126.82	121.19
1	8M	22	ALA	O-C-N	-5.12	116.80	122.07
1	8R	128	GLU	CA-C-O	-5.12	115.45	120.82
1	8W	171	THR	CA-C-N	5.12	127.14	120.28
1	8W	171	THR	C-N-CA	5.12	127.14	120.28
1	9e	200	THR	O-C-N	-5.12	116.80	122.07
1	9r	28	GLU	N-CA-C	5.12	117.99	111.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9r	130	TYR	O-C-N	5.12	127.55	122.12
1	9y	29	GLU	N-CA-CB	-5.12	102.65	110.33
1	9B	138	LEU	N-CA-C	5.12	116.86	111.28
1	9N	160	PRO	O-C-N	-5.12	117.55	123.23
1	9P	68	MET	N-CA-C	-5.12	105.70	111.28
1	9S	155	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	9T	154	ARG	CA-CB-CG	5.12	124.34	114.10
1	a0	145	TYR	CA-C-O	5.12	124.77	119.14
1	a7	229	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	a8	9	GLN	CA-C-N	5.12	127.45	120.54
1	a8	9	GLN	C-N-CA	5.12	127.45	120.54
1	11	21	ASN	CA-C-N	5.12	127.09	120.44
1	11	21	ASN	C-N-CA	5.12	127.09	120.44
1	ak	58	THR	N-CA-C	-5.12	106.62	112.92
1	am	84	HIS	CB-CA-C	-5.12	102.97	110.13
1	ax	132	ARG	CA-C-N	5.12	127.14	120.28
1	ax	132	ARG	C-N-CA	5.12	127.14	120.28
1	aB	133	TRP	CA-C-N	5.12	127.20	120.60
1	aB	133	TRP	C-N-CA	5.12	127.20	120.60
1	13	69	LEU	CA-C-N	5.12	127.09	120.44
1	13	69	LEU	C-N-CA	5.12	127.09	120.44
1	aF	13	GLN	N-CA-C	-5.12	100.69	109.24
1	aG	182	LYS	CA-C-N	5.12	127.56	120.29
1	aG	182	LYS	C-N-CA	5.12	127.56	120.29
1	aK	200	THR	N-CA-CB	5.12	117.43	110.01
1	aM	182	LYS	CB-CG-CD	5.12	123.07	111.30
1	aN	63	GLN	CA-C-O	-5.12	112.96	119.31
1	aU	81	ASP	CA-C-N	5.12	127.39	120.38
1	aU	81	ASP	C-N-CA	5.12	127.39	120.38
1	aV	162	ARG	CA-CB-CG	-5.12	103.86	114.10
1	aY	117	TRP	NE1-CE2-CD2	-5.12	100.75	107.40
1	b5	82	ARG	CA-C-O	-5.12	114.99	120.42
1	ba	27	VAL	O-C-N	-5.12	116.91	121.87
1	bc	159	GLU	CA-C-N	5.12	125.40	119.92
1	bc	159	GLU	C-N-CA	5.12	125.40	119.92
1	be	177	ALA	CA-C-N	5.12	128.94	121.31
1	be	177	ALA	C-N-CA	5.12	128.94	121.31
1	bg	65	ALA	N-CA-C	5.12	116.55	111.07
1	bh	159	GLU	CA-C-N	5.12	125.12	119.90
1	bh	159	GLU	C-N-CA	5.12	125.12	119.90
1	bp	67	GLN	N-CA-C	5.12	116.55	111.07
1	bp	100	ARG	NE-CZ-NH1	5.12	126.62	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bA	139	ASN	CB-CA-C	5.12	119.06	110.92
1	19	76	GLU	N-CA-CB	5.12	117.64	110.12
1	bC	224	PRO	N-CA-C	5.12	119.60	111.26
1	bE	80	TRP	CA-C-N	5.12	127.56	120.29
1	bE	80	TRP	C-N-CA	5.12	127.56	120.29
1	bL	166	ASP	N-CA-CB	-5.12	102.59	110.12
1	ca	28	GLU	CA-C-N	5.12	127.14	120.28
1	ca	28	GLU	C-N-CA	5.12	127.14	120.28
1	cd	62	HIS	CG-CD2-NE2	-5.12	102.08	107.20
1	1d	59	VAL	N-CA-C	5.12	115.71	107.73
1	ch	12	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	ch	59	VAL	CA-C-O	5.12	127.18	120.78
1	ch	67	GLN	CA-C-O	5.12	125.86	119.97
1	ch	100	ARG	CA-C-O	-5.12	116.05	121.94
1	ck	17	PRO	CA-C-N	5.12	127.56	120.29
1	ck	17	PRO	C-N-CA	5.12	127.56	120.29
1	cx	200	THR	O-C-N	-5.12	116.69	122.12
1	cA	100	ARG	O-C-N	-5.12	116.69	122.68
1	cA	167	ARG	N-CA-C	5.12	116.94	111.36
1	cE	6	LEU	N-CA-C	-5.12	100.67	108.76
1	cK	181	VAL	CB-CA-C	5.12	119.28	112.22
1	cS	213	GLU	N-CA-CB	5.12	117.43	110.01
1	cW	133	TRP	N-CA-C	5.12	116.55	111.07
1	cY	97	ARG	O-C-N	-5.12	117.01	122.85
1	d0	21	ASN	CA-CB-CG	-5.12	107.48	112.60
1	d6	177	ALA	O-C-N	-5.12	116.76	122.75
1	1j	212	GLU	CA-C-O	5.12	126.38	120.90
1	1j	224	PRO	CA-C-N	5.12	129.29	121.51
1	1j	224	PRO	C-N-CA	5.12	129.29	121.51
1	dw	123	PRO	CA-C-N	5.12	128.69	122.85
1	dw	123	PRO	C-N-CA	5.12	128.69	122.85
1	dx	149	SER	N-CA-C	5.12	116.73	108.34
1	dD	47	ALA	O-C-N	-5.12	116.82	122.86
1	dE	179	GLN	CB-CG-CD	5.12	121.30	112.60
1	1m	159	GLU	N-CA-C	-5.12	99.32	109.10
1	1n	12	HIS	O-C-N	-5.12	116.58	122.87
1	dU	77	ALA	O-C-N	-5.12	116.69	122.12
1	dW	148	THR	OG1-CB-CG2	-5.12	99.06	109.30
1	e7	124	ILE	N-CA-C	-5.12	102.12	107.60
1	ea	61	GLY	CA-C-N	5.12	130.21	122.68
1	ea	61	GLY	C-N-CA	5.12	130.21	122.68
1	el	229	ARG	NE-CZ-NH2	-5.12	114.59	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	er	192	GLN	CG-CD-NE2	5.12	124.08	116.40
1	es	179	GLN	CA-C-N	5.12	127.14	120.28
1	es	179	GLN	C-N-CA	5.12	127.14	120.28
1	ev	115	ILE	CA-C-N	5.12	125.76	120.03
1	ev	115	ILE	C-N-CA	5.12	125.76	120.03
1	1r	187	GLU	O-C-N	-5.12	116.69	122.12
1	eB	79	GLU	O-C-N	-5.12	116.80	122.07
1	eE	29	GLU	N-CA-C	5.12	120.52	113.97
1	eF	183	ASN	N-CA-CB	5.12	117.64	110.12
1	eN	48	THR	O-C-N	-5.12	115.83	121.66
1	eO	10	MET	CA-C-O	-5.12	114.92	120.81
1	eO	197	ASP	N-CA-CB	-5.12	102.60	110.12
1	eP	152	ASP	N-CA-CB	-5.12	103.50	110.56
1	eU	132	ARG	CA-C-O	5.12	125.86	119.97
1	1u	5	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	f6	42	ALA	CA-C-O	5.12	125.84	120.42
1	f7	184	TRP	CA-CB-CG	5.12	123.33	113.60
1	fe	144	MET	CA-C-N	5.12	127.56	120.29
1	fe	144	MET	C-N-CA	5.12	127.56	120.29
1	fm	80	TRP	O-C-N	-5.12	116.56	122.09
1	fm	170	LYS	CA-C-N	5.12	127.09	120.44
1	fm	170	LYS	C-N-CA	5.12	127.09	120.44
1	fo	89	GLY	CA-C-N	5.12	126.24	119.84
1	fo	89	GLY	C-N-CA	5.12	126.24	119.84
1	fr	139	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	ft	66	MET	CA-C-N	5.12	127.09	120.44
1	ft	66	MET	C-N-CA	5.12	127.09	120.44
1	fz	33	SER	CB-CA-C	5.12	116.79	109.11
1	fB	192	GLN	CA-C-N	-5.12	115.03	122.86
1	fB	192	GLN	C-N-CA	-5.12	115.03	122.86
1	fD	190	LEU	CA-C-O	5.12	125.98	120.55
1	fH	195	ASN	CB-CA-C	5.12	117.85	109.46
1	fJ	221	VAL	CA-C-N	5.12	126.02	120.44
1	fJ	221	VAL	C-N-CA	5.12	126.02	120.44
1	fM	120	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	g5	183	ASN	CA-C-N	5.12	127.09	120.44
1	g5	183	ASN	C-N-CA	5.12	127.09	120.44
1	g6	129	ILE	CA-CB-CG2	5.12	119.20	110.50
1	a	95	GLN	O-C-N	-5.12	116.50	123.10
1	b	7	GLN	CA-C-O	5.12	125.68	119.38
1	b	162	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	c	14	ALA	O-C-N	-5.12	116.51	122.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	y	165	VAL	CA-C-O	5.12	126.00	120.47
1	M	154	ARG	NE-CZ-NH2	-5.12	114.59	119.20
1	4	112	GLN	N-CA-C	5.12	118.30	111.75
1	P	183	ASN	CA-C-N	5.12	127.14	120.28
1	P	183	ASN	C-N-CA	5.12	127.14	120.28
1	gb	203	LYS	N-CA-C	5.12	116.94	111.36
1	gk	162	ARG	N-CA-C	5.12	117.59	111.71
1	gv	216	THR	CA-CB-OG1	5.12	117.28	109.60
1	gA	3	VAL	CB-CA-C	-5.12	104.34	110.99
1	gC	205	LEU	CA-C-N	5.12	129.90	121.87
1	gC	205	LEU	C-N-CA	5.12	129.90	121.87
1	gG	180	GLU	CA-C-N	5.12	127.01	120.56
1	gG	180	GLU	C-N-CA	5.12	127.01	120.56
1	gM	139	ASN	N-CA-CB	5.12	117.73	110.06
1	gO	169	TYR	O-C-N	-5.12	116.70	122.12
1	gR	76	GLU	O-C-N	-5.12	115.98	122.27
1	gT	193	ASN	N-CA-C	5.12	119.21	112.92
1	h0	166	ASP	CA-CB-CG	5.12	117.72	112.60
1	hf	149	SER	CA-C-N	5.12	129.09	120.29
1	hf	149	SER	C-N-CA	5.12	129.09	120.29
1	1I	163	ASP	O-C-N	-5.12	115.98	122.27
1	hA	4	GLN	CG-CD-NE2	5.12	124.08	116.40
1	hB	154	ARG	O-C-N	-5.12	117.42	123.25
1	hR	59	VAL	O-C-N	5.12	128.77	122.83
1	hR	186	THR	CA-C-O	5.12	125.84	120.42
1	hU	18	ARG	N-CA-CB	5.12	117.64	110.12
1	hV	119	THR	CA-C-N	5.12	130.28	120.97
1	hV	119	THR	C-N-CA	5.12	130.28	120.97
1	hX	67	GLN	N-CA-CB	5.12	118.21	110.28
1	i2	142	VAL	N-CA-C	5.12	115.84	110.62
1	iK	111	LEU	N-CA-C	5.12	116.86	111.28
1	iR	17	PRO	N-CA-CB	5.12	108.62	103.25
1	iU	36	VAL	O-C-N	-5.12	116.02	121.80
1	iV	173	ARG	CA-C-O	-5.12	115.13	120.55
1	ja	55	MET	CA-C-N	5.12	127.14	120.28
1	ja	55	MET	C-N-CA	5.12	127.14	120.28
1	1U	118	MET	N-CA-C	-5.12	107.04	113.28
1	jk	11	VAL	O-C-N	-5.12	117.78	123.20
1	jl	152	ASP	CA-C-O	5.12	125.41	119.32
1	1V	17	PRO	N-CA-C	-5.12	106.54	113.40
1	jo	15	ILE	O-C-N	-5.12	117.21	122.63
1	jX	83	LEU	CA-C-N	5.12	130.66	121.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jX	83	LEU	C-N-CA	5.12	130.66	121.76
1	k4	72	THR	OG1-CB-CG2	-5.12	99.07	109.30
1	k6	1	PRO	CA-N-CD	-5.12	104.84	112.00
1	ka	132	ARG	CA-C-N	5.12	127.14	120.28
1	ka	132	ARG	C-N-CA	5.12	127.14	120.28
1	kj	80	TRP	CE2-CD2-CE3	5.12	123.92	118.80
1	kv	68	MET	N-CA-C	-5.12	105.70	111.28
1	kP	110	THR	N-CA-C	-5.12	101.42	109.50
1	l1	71	GLU	CA-C-N	5.12	127.14	120.28
1	l1	71	GLU	C-N-CA	5.12	127.14	120.28
1	l7	67	GLN	CB-CG-CD	5.12	121.30	112.60
1	lg	109	SER	CB-CA-C	-5.12	99.73	109.66
1	lh	159	GLU	O-C-N	-5.12	116.96	121.31
1	lz	9	GLN	CA-C-N	5.12	128.12	120.90
1	lz	9	GLN	C-N-CA	5.12	128.12	120.90
1	lR	62	HIS	CG-ND1-CE1	-5.12	100.60	109.30
1	2l	186	THR	CA-C-O	5.12	125.84	120.42
1	2z	95	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	2D	90	PRO	N-CA-C	5.12	119.25	111.11
1	2O	229	ARG	CB-CG-CD	5.12	123.07	111.30
1	31	47	ALA	N-CA-C	5.12	117.64	109.96
1	3n	140	LYS	N-CA-C	5.12	117.52	111.33
1	3N	120	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	3V	218	CYS	CA-C-N	5.12	127.14	120.28
1	3V	218	CYS	C-N-CA	5.12	127.14	120.28
1	45	205	LEU	N-CA-C	5.12	116.86	111.28
1	4b	227	LYS	N-CA-C	5.12	116.93	110.33
1	4e	166	ASP	CA-CB-CG	5.12	117.72	112.60
1	4h	178	SER	CA-C-N	5.12	127.14	120.28
1	4h	178	SER	C-N-CA	5.12	127.14	120.28
1	4y	82	ARG	CA-C-N	5.12	127.56	120.29
1	4y	82	ARG	C-N-CA	5.12	127.56	120.29
1	4F	51	ASP	CA-CB-CG	-5.12	107.48	112.60
1	4F	146	SER	CA-C-N	5.12	126.24	119.84
1	4F	146	SER	C-N-CA	5.12	126.24	119.84
1	4K	133	TRP	CD2-CE2-CZ2	-5.12	117.28	122.40
1	4N	101	GLY	O-C-N	5.12	127.10	122.19
1	4O	95	GLN	N-CA-CB	-5.12	102.45	110.69
1	5s	209	ALA	O-C-N	-5.12	116.76	122.75
1	5t	210	THR	N-CA-CB	5.12	117.54	110.17
1	5u	161	PHE	N-CA-CB	5.12	117.73	110.16
1	5u	226	HIS	CA-CB-CG	-5.12	108.68	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	62	34	PRO	CA-C-N	5.12	128.79	120.60
1	62	34	PRO	C-N-CA	5.12	128.79	120.60
1	62	188	THR	OG1-CB-CG2	-5.12	99.07	109.30
1	6o	141	ILE	CA-C-N	5.12	127.20	120.60
1	6o	141	ILE	C-N-CA	5.12	127.20	120.60
1	6O	195	ASN	CB-CA-C	5.12	117.51	109.27
1	7q	90	PRO	CA-C-N	5.12	129.53	123.19
1	7q	90	PRO	C-N-CA	5.12	129.53	123.19
1	7J	168	PHE	CA-C-O	-5.12	115.08	120.55
1	7L	168	PHE	N-CA-CB	-5.12	102.04	109.82
1	7S	53	ASN	N-CA-C	5.12	116.86	111.28
1	8e	69	LEU	N-CA-C	5.12	117.76	111.82
1	8v	33	SER	O-C-N	-5.12	115.44	121.32
1	8A	181	VAL	O-C-N	-5.12	116.02	121.80
1	8Q	21	ASN	N-CA-CB	-5.12	102.60	110.12
1	9g	123	PRO	CA-C-N	5.12	129.60	120.70
1	9g	123	PRO	C-N-CA	5.12	129.60	120.70
1	a8	62	HIS	ND1-CG-CD2	5.12	111.22	106.10
1	10	7	GLN	CA-CB-CG	5.12	124.33	114.10
1	12	40	PHE	O-C-N	5.12	127.54	122.12
1	ax	143	ARG	CD-NE-CZ	-5.12	117.24	124.40
1	aE	119	THR	CA-CB-OG1	5.12	117.28	109.60
1	aG	99	PRO	N-CA-CB	5.12	106.66	103.23
1	aK	4	GLN	O-C-N	-5.12	115.72	122.47
1	b1	55	MET	O-C-N	-5.12	116.70	122.12
1	b6	172	LEU	CA-C-N	5.12	127.14	120.28
1	b6	172	LEU	C-N-CA	5.12	127.14	120.28
1	bf	19	THR	CA-C-N	5.12	127.39	120.38
1	bf	19	THR	C-N-CA	5.12	127.39	120.38
1	17	115	ILE	CA-C-N	5.12	125.77	119.99
1	17	115	ILE	C-N-CA	5.12	125.77	119.99
1	19	69	LEU	CA-C-N	5.12	127.39	120.38
1	19	69	LEU	C-N-CA	5.12	127.39	120.38
1	bN	31	ALA	CA-C-N	5.12	129.41	122.19
1	bN	31	ALA	C-N-CA	5.12	129.41	122.19
1	cd	80	TRP	CA-CB-CG	5.12	123.32	113.60
1	cf	15	ILE	CA-C-N	5.12	130.66	120.94
1	cf	15	ILE	C-N-CA	5.12	130.66	120.94
1	cp	60	GLY	N-CA-C	5.12	118.68	112.49
1	cx	24	VAL	O-C-N	-5.12	116.91	121.87
1	cB	21	ASN	CA-C-N	5.12	127.09	120.44
1	cB	21	ASN	C-N-CA	5.12	127.09	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cH	154	ARG	N-CA-C	5.12	117.71	110.50
1	d5	73	ILE	N-CA-C	5.12	115.84	110.62
1	ds	221	VAL	CB-CA-C	5.12	118.45	110.83
1	dt	66	MET	CB-CA-C	5.12	119.28	110.79
1	dw	112	GLN	CA-C-O	5.12	126.16	120.63
1	dH	210	THR	N-CA-C	5.12	117.72	110.50
1	dS	54	THR	O-C-N	-5.12	116.80	122.07
1	dX	7	GLN	N-CA-CB	5.12	117.68	110.36
1	e7	114	GLN	OE1-CD-NE2	5.12	127.72	122.60
1	eO	148	THR	CA-CB-OG1	5.12	117.28	109.60
1	eP	139	ASN	CA-C-N	5.12	127.14	120.28
1	eP	139	ASN	C-N-CA	5.12	127.14	120.28
1	f2	187	GLU	N-CA-C	5.12	116.86	111.28
1	f4	97	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	f7	54	THR	O-C-N	-5.12	116.70	122.12
1	fl	53	ASN	N-CA-C	5.12	116.86	111.28
1	fs	167	ARG	CA-C-N	5.12	127.90	120.79
1	fs	167	ARG	C-N-CA	5.12	127.90	120.79
1	ft	167	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	fK	141	ILE	CA-C-O	-5.12	116.09	121.41
1	fO	179	GLN	CA-C-O	5.12	125.97	120.55
1	g6	169	TYR	CA-C-N	5.12	127.14	120.28
1	g6	169	TYR	C-N-CA	5.12	127.14	120.28
1	a	2	ILE	N-CA-C	-5.12	101.21	108.58
1	g	188	THR	CA-CB-OG1	-5.12	101.92	109.60
1	n	230	VAL	N-CA-C	-5.12	107.41	111.81
1	p	22	ALA	N-CA-C	5.12	116.94	111.36
1	A	78	ALA	CA-C-N	5.12	127.39	120.38
1	A	78	ALA	C-N-CA	5.12	127.39	120.38
1	H	4	GLN	OE1-CD-NE2	5.12	127.72	122.60
1	gc	13	GLN	N-CA-C	5.12	118.05	110.48
1	gd	132	ARG	CA-C-N	5.12	128.09	120.31
1	gd	132	ARG	C-N-CA	5.12	128.09	120.31
1	gd	199	LYS	N-CA-C	5.12	116.86	111.28
1	gz	47	ALA	CA-C-O	5.12	126.97	121.55
1	gB	102	SER	N-CA-C	5.12	117.75	111.82
1	gB	183	ASN	CA-C-O	-5.12	115.43	120.70
1	gE	62	HIS	CA-CB-CG	-5.12	108.68	113.80
1	h1	63	GLN	N-CA-CB	5.12	118.18	110.30
1	h4	30	LYS	N-CA-CB	-5.12	103.56	110.67
1	ht	155	GLN	CA-C-N	5.12	128.79	121.42
1	ht	155	GLN	C-N-CA	5.12	128.79	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	78	ALA	N-CA-C	5.12	116.86	111.28
1	hE	20	LEU	O-C-N	-5.12	116.70	122.12
1	hJ	57	ASN	CB-CG-ND2	5.12	124.07	116.40
1	1L	176	GLN	CA-C-N	5.12	128.47	120.75
1	1L	176	GLN	C-N-CA	5.12	128.47	120.75
1	hQ	10	MET	CG-SD-CE	-5.12	89.65	100.90
1	hS	144	MET	CG-SD-CE	-5.12	89.64	100.90
1	1M	13	GLN	CA-C-N	5.12	128.13	120.87
1	1M	13	GLN	C-N-CA	5.12	128.13	120.87
1	ic	42	ALA	N-CA-C	5.12	116.54	111.07
1	1O	65	ALA	N-CA-C	5.12	116.86	111.28
1	ij	212	GLU	N-CA-C	5.12	116.86	111.28
1	io	46	GLY	CA-C-N	5.12	127.97	120.71
1	io	46	GLY	C-N-CA	5.12	127.97	120.71
1	ir	87	HIS	O-C-N	-5.12	117.23	123.16
1	iy	71	GLU	CA-C-N	5.12	127.14	120.28
1	iy	71	GLU	C-N-CA	5.12	127.14	120.28
1	iA	35	GLU	N-CA-CB	-5.12	101.90	110.39
1	iN	102	SER	CA-C-N	5.12	127.14	120.28
1	iN	102	SER	C-N-CA	5.12	127.14	120.28
1	1S	201	ILE	CB-CA-C	-5.12	105.16	112.22
1	iS	109	SER	CA-C-N	-5.12	113.82	122.67
1	iS	109	SER	C-N-CA	-5.12	113.82	122.67
1	iX	84	HIS	CA-CB-CG	5.12	118.92	113.80
1	iZ	194	ALA	CA-C-N	5.12	127.50	120.39
1	iZ	194	ALA	C-N-CA	5.12	127.50	120.39
1	iZ	210	THR	CA-C-O	-5.12	115.77	121.81
1	j3	107	THR	CA-CB-OG1	5.12	117.27	109.60
1	j7	13	GLN	CG-CD-OE1	5.12	131.03	120.80
1	jd	132	ARG	NE-CZ-NH1	5.12	126.61	121.50
1	jk	87	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	jl	63	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	1V	171	THR	CA-C-O	5.12	126.19	120.82
1	jo	143	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	jo	169	TYR	CB-CA-C	-5.12	102.85	110.88
1	jq	70	LYS	CA-C-N	5.12	127.45	120.54
1	jq	70	LYS	C-N-CA	5.12	127.45	120.54
1	1X	173	ARG	NE-CZ-NH2	-5.12	114.60	119.20
1	jJ	126	VAL	N-CA-CB	-5.12	101.90	110.65
1	1Y	183	ASN	O-C-N	-5.12	116.70	122.12
1	jX	145	TYR	CB-CG-CD1	5.12	128.47	120.80
1	k0	187	GLU	O-C-N	-5.12	116.70	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	20	187	GLU	CB-CG-CD	5.12	121.30	112.60
1	kp	94	GLY	N-CA-C	-5.12	107.63	115.00
1	kp	198	CYS	CA-C-O	5.12	125.97	120.55
1	ku	223	GLY	O-C-N	-5.12	116.66	121.77
1	kz	95	GLN	CA-C-N	5.12	128.37	121.05
1	kz	95	GLN	C-N-CA	5.12	128.37	121.05
1	kP	148	THR	N-CA-CB	5.12	117.56	109.83
1	kX	23	TRP	CG-CD2-CE3	-5.12	128.78	133.90
1	kX	32	PHE	CA-CB-CG	5.12	118.92	113.80
1	l8	111	LEU	O-C-N	-5.12	116.80	122.07
1	lb	27	VAL	O-C-N	-5.12	116.91	121.87
1	le	204	ALA	CA-C-N	5.12	127.14	120.28
1	le	204	ALA	C-N-CA	5.12	127.14	120.28
1	lf	117	TRP	N-CA-C	5.12	118.67	112.23
1	lk	87	HIS	CE1-NE2-CD2	-5.12	103.88	109.00
1	lm	142	VAL	O-C-N	-5.12	116.83	121.94
1	28	163	ASP	N-CA-CB	5.12	117.43	110.01
1	ls	223	GLY	O-C-N	-5.12	116.66	121.77
1	lt	87	HIS	CB-CG-CD2	-5.12	124.55	131.20
1	lv	104	ILE	O-C-N	5.12	126.83	121.87
1	ly	170	LYS	N-CA-C	5.12	116.94	111.36
1	ly	190	LEU	N-CA-C	5.12	116.54	111.07
1	lF	206	GLY	CA-C-N	5.12	125.12	119.90
1	lF	206	GLY	C-N-CA	5.12	125.12	119.90
1	lJ	210	THR	N-CA-C	5.12	117.28	110.53
1	lL	2	ILE	N-CA-C	5.12	115.22	107.80
1	lO	160	PRO	N-CA-C	5.12	119.23	111.15
1	2f	169	TYR	CA-CB-CG	-5.12	104.69	113.90
1	2m	181	VAL	CB-CA-C	-5.12	105.23	112.14
1	2w	92	GLU	O-C-N	-5.12	116.03	121.30
1	2x	18	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	2C	197	ASP	CA-C-O	-5.12	115.13	120.55
1	2W	99	PRO	CA-C-O	-5.12	115.34	121.48
1	2W	193	ASN	CB-CG-OD1	5.12	131.03	120.80
1	34	185	MET	N-CA-C	5.12	117.52	111.33
1	3b	7	GLN	CG-CD-NE2	-5.12	108.73	116.40
1	3e	9	GLN	N-CA-C	5.12	117.71	110.50
1	3m	26	VAL	CA-C-N	5.12	127.11	120.56
1	3m	26	VAL	C-N-CA	5.12	127.11	120.56
1	3o	96	MET	CA-C-O	5.12	126.54	120.66
1	3q	171	THR	CB-CA-C	5.12	119.28	110.79
1	3E	132	ARG	NE-CZ-NH2	-5.12	114.59	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3O	67	GLN	N-CA-C	5.12	116.54	111.07
1	3Q	72	THR	CA-C-O	-5.12	115.45	120.82
1	3R	82	ARG	N-CA-C	5.12	117.75	111.82
1	3X	102	SER	N-CA-C	5.12	116.86	111.28
1	42	62	HIS	CA-C-N	5.12	127.56	120.29
1	42	62	HIS	C-N-CA	5.12	127.56	120.29
1	47	132	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	4a	84	HIS	CA-C-O	-5.12	115.37	120.64
1	4i	85	PRO	CB-CA-C	5.12	117.65	111.46
1	4t	56	LEU	CA-C-O	5.12	125.84	120.42
1	4Q	193	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	53	197	ASP	N-CA-CB	-5.12	102.42	110.30
1	58	14	ALA	N-CA-C	5.12	118.05	110.48
1	5m	199	LYS	N-CA-CB	5.12	117.64	110.12
1	5n	144	MET	CG-SD-CE	-5.12	89.65	100.90
1	5q	64	ALA	CA-C-N	5.12	127.09	120.44
1	5q	64	ALA	C-N-CA	5.12	127.09	120.44
1	5q	87	HIS	CA-CB-CG	-5.12	108.68	113.80
1	5r	186	THR	CA-C-O	5.12	125.84	120.42
1	5t	83	LEU	N-CA-C	5.12	116.86	111.28
1	5u	99	PRO	N-CA-C	5.12	118.52	110.80
1	5u	189	LEU	O-C-N	-5.12	115.64	122.49
1	5A	7	GLN	O-C-N	-5.12	116.61	122.95
1	5C	72	THR	O-C-N	-5.12	116.32	122.15
1	5D	188	THR	N-CA-CB	5.12	119.34	110.44
1	5Q	133	TRP	CA-C-N	5.12	127.01	120.56
1	5Q	133	TRP	C-N-CA	5.12	127.01	120.56
1	5Q	188	THR	CA-C-N	5.12	127.65	120.28
1	5Q	188	THR	C-N-CA	5.12	127.65	120.28
1	5R	26	VAL	N-CA-C	5.12	115.33	110.42
1	60	212	GLU	O-C-N	-5.12	116.70	122.12
1	6s	126	VAL	N-CA-C	5.12	116.45	110.62
1	6s	146	SER	CA-C-N	5.12	126.23	119.84
1	6s	146	SER	C-N-CA	5.12	126.23	119.84
1	6s	181	VAL	CA-C-N	5.12	127.14	120.28
1	6s	181	VAL	C-N-CA	5.12	127.14	120.28
1	6t	137	GLY	CA-C-O	-5.12	115.24	120.66
1	6w	100	ARG	NE-CZ-NH1	5.12	126.62	121.50
1	6F	5	ASN	CB-CG-ND2	-5.12	108.73	116.40
1	6S	137	GLY	O-C-N	-5.12	117.23	122.19
1	74	161	PHE	CA-C-N	5.12	128.50	120.82
1	74	161	PHE	C-N-CA	5.12	128.50	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7d	13	GLN	O-C-N	-5.12	117.95	123.42
1	7p	14	ALA	CA-C-N	5.12	128.22	120.75
1	7p	14	ALA	C-N-CA	5.12	128.22	120.75
1	7t	7	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	7z	64	ALA	CA-C-O	-5.12	115.00	120.42
1	7F	52	LEU	CA-C-O	5.12	125.84	120.42
1	7K	210	THR	O-C-N	-5.12	116.97	123.01
1	7X	226	HIS	CB-CG-CD2	-5.12	124.55	131.20
1	8b	202	LEU	CA-C-N	5.12	129.38	120.68
1	8b	202	LEU	C-N-CA	5.12	129.38	120.68
1	8v	43	LEU	O-C-N	-5.12	116.70	122.12
1	8C	98	GLU	CG-CD-OE1	5.12	130.17	118.40
1	8F	47	ALA	N-CA-C	5.12	117.45	110.24
1	8J	42	ALA	CA-C-O	5.12	125.84	120.42
1	8K	25	LYS	CA-C-N	5.12	127.11	120.56
1	8K	25	LYS	C-N-CA	5.12	127.11	120.56
1	8L	42	ALA	CB-CA-C	-5.12	102.62	110.81
1	8O	142	VAL	CA-C-O	5.12	126.59	121.27
1	8U	62	HIS	O-C-N	-5.12	116.06	123.07
1	8W	159	GLU	O-C-N	-5.12	116.16	121.28
1	99	144	MET	CG-SD-CE	-5.12	89.65	100.90
1	9f	85	PRO	N-CA-C	5.12	119.34	111.21
1	9j	201	ILE	CA-C-N	5.12	127.13	120.28
1	9j	201	ILE	C-N-CA	5.12	127.13	120.28
1	9m	52	LEU	N-CA-C	-5.12	105.40	111.69
1	9u	84	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	9y	143	ARG	N-CA-C	5.12	118.78	112.54
1	9A	69	LEU	CA-C-N	5.12	127.09	120.44
1	9A	69	LEU	C-N-CA	5.12	127.09	120.44
1	9G	134	ILE	CB-CA-C	-5.12	105.23	112.14
1	9S	34	PRO	N-CA-C	5.12	123.01	112.47
1	a0	97	ARG	NE-CZ-NH1	-5.12	116.38	121.50
1	10	135	ILE	O-C-N	-5.12	116.91	121.87
1	ad	205	LEU	N-CA-C	5.12	117.75	111.82
1	ag	218	CYS	O-C-N	-5.12	116.44	122.58
1	11	48	THR	CA-C-O	-5.12	115.39	120.96
1	ak	69	LEU	CA-C-N	-5.12	113.43	120.28
1	ak	69	LEU	C-N-CA	-5.12	113.43	120.28
1	am	132	ARG	CA-C-N	5.12	127.56	120.29
1	am	132	ARG	C-N-CA	5.12	127.56	120.29
1	an	75	GLU	O-C-N	-5.12	116.80	122.07
1	at	67	GLN	N-CA-C	5.12	116.54	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	141	ILE	N-CA-C	-5.12	105.40	110.62
1	av	229	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	aF	193	ASN	CA-C-N	5.12	129.51	120.87
1	aF	193	ASN	C-N-CA	5.12	129.51	120.87
1	14	229	ARG	CB-CA-C	5.12	118.40	109.65
1	aP	219	GLN	N-CA-C	5.12	117.25	111.11
1	15	84	HIS	CB-CG-ND1	5.12	130.37	122.70
1	b1	145	TYR	CA-C-O	5.12	125.84	120.42
1	16	51	ASP	CA-C-O	5.12	125.84	120.42
1	bg	78	ALA	CA-C-N	5.12	127.39	120.38
1	bg	78	ALA	C-N-CA	5.12	127.39	120.38
1	17	104	ILE	CA-C-O	5.12	126.59	121.17
1	br	117	TRP	CD2-CE2-CZ2	-5.12	117.28	122.40
1	br	177	ALA	CA-C-N	5.12	129.52	120.87
1	br	177	ALA	C-N-CA	5.12	129.52	120.87
1	bE	27	VAL	O-C-N	-5.12	116.91	121.87
1	bN	135	ILE	O-C-N	-5.12	116.90	121.91
1	bS	75	GLU	N-CA-CB	-5.12	102.59	110.01
1	bS	195	ASN	CA-C-N	5.12	126.23	119.84
1	bS	195	ASN	C-N-CA	5.12	126.23	119.84
1	bU	172	LEU	O-C-N	-5.12	115.98	122.27
1	c3	36	VAL	N-CA-CB	5.12	117.50	110.54
1	c3	150	ILE	CA-CB-CG1	5.12	119.09	110.40
1	c8	87	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	cd	188	THR	CA-CB-OG1	5.12	117.27	109.60
1	ce	144	MET	N-CA-CB	5.12	117.64	110.12
1	cl	7	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	cl	191	VAL	CB-CA-C	-5.12	105.42	111.97
1	cn	43	LEU	N-CA-CB	-5.12	102.35	110.28
1	cn	189	LEU	N-CA-C	5.12	116.86	111.28
1	co	216	THR	CA-C-N	5.12	127.09	120.44
1	co	216	THR	C-N-CA	5.12	127.09	120.44
1	cr	139	ASN	OD1-CG-ND2	-5.12	117.48	122.60
1	cs	79	GLU	CA-C-N	-5.12	113.43	120.28
1	cs	79	GLU	C-N-CA	-5.12	113.43	120.28
1	cy	175	GLU	N-CA-C	5.12	117.65	110.23
1	cD	74	ASN	O-C-N	-5.12	116.70	122.12
1	cI	65	ALA	CA-C-N	-5.12	113.43	120.28
1	cI	65	ALA	C-N-CA	-5.12	113.43	120.28
1	cJ	12	HIS	CE1-NE2-CD2	-5.12	103.89	109.00
1	cM	88	ALA	CA-C-N	5.12	129.90	121.87
1	cM	88	ALA	C-N-CA	5.12	129.90	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cO	4	GLN	N-CA-C	5.12	117.89	108.58
1	cU	57	ASN	CA-CB-CG	-5.12	107.48	112.60
1	cW	55	MET	O-C-N	-5.12	116.70	122.12
1	cW	184	TRP	N-CA-C	5.12	117.25	111.11
1	cY	174	ALA	CA-C-N	5.12	128.13	120.87
1	cY	174	ALA	C-N-CA	5.12	128.13	120.87
1	d0	85	PRO	CA-C-N	5.12	128.24	120.77
1	d0	85	PRO	C-N-CA	5.12	128.24	120.77
1	df	180	GLU	CA-C-O	5.12	126.19	120.82
1	dm	82	ARG	CD-NE-CZ	5.12	131.56	124.40
1	dn	180	GLU	O-C-N	-5.12	116.80	122.07
1	dx	161	PHE	CA-C-N	5.12	127.39	120.38
1	dx	161	PHE	C-N-CA	5.12	127.39	120.38
1	dG	154	ARG	O-C-N	5.12	128.89	123.42
1	dI	2	ILE	N-CA-C	5.12	116.11	108.54
1	dI	42	ALA	CA-C-N	5.12	128.09	120.31
1	dI	42	ALA	C-N-CA	5.12	128.09	120.31
1	dL	154	ARG	O-C-N	-5.12	115.78	122.59
1	e0	38	PRO	N-CA-CB	5.12	108.62	103.25
1	ee	110	THR	CA-CB-OG1	5.12	117.27	109.60
1	ek	169	TYR	O-C-N	-5.12	116.70	122.12
1	ey	17	PRO	N-CA-C	-5.12	107.07	114.18
1	eC	153	ILE	CA-C-O	-5.12	116.47	121.58
1	1s	164	TYR	CB-CA-C	5.12	118.91	110.88
1	eG	98	GLU	CA-C-N	5.12	125.03	119.76
1	eG	98	GLU	C-N-CA	5.12	125.03	119.76
1	eH	9	GLN	CA-C-N	5.12	128.61	121.24
1	eH	9	GLN	C-N-CA	5.12	128.61	121.24
1	eL	14	ALA	N-CA-C	5.12	117.31	110.35
1	1t	38	PRO	N-CA-C	-5.12	106.87	113.57
1	eW	229	ARG	NE-CZ-NH2	-5.12	114.60	119.20
1	eZ	159	GLU	N-CA-C	5.12	118.53	109.58
1	1u	65	ALA	CA-C-N	5.12	127.45	120.54
1	1u	65	ALA	C-N-CA	5.12	127.45	120.54
1	f5	48	THR	N-CA-CB	5.12	116.84	109.78
1	fl	204	ALA	CA-C-O	5.12	125.97	120.55
1	fz	43	LEU	CA-C-N	5.12	130.97	122.73
1	fz	43	LEU	C-N-CA	5.12	130.97	122.73
1	fB	21	ASN	CB-CA-C	5.12	120.49	110.67
1	fE	219	GLN	OE1-CD-NE2	-5.12	117.48	122.60
1	fF	2	ILE	O-C-N	-5.12	116.30	122.59
1	fN	36	VAL	N-CA-CB	5.12	116.53	110.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	3	VAL	CA-C-N	-5.12	115.78	122.99
1	fR	3	VAL	C-N-CA	-5.12	115.78	122.99
1	0	31	ALA	CB-CA-C	-5.12	101.34	110.70
1	c	143	ARG	NH1-CZ-NH2	-5.12	112.65	119.30
1	n	52	LEU	CA-C-O	-5.12	115.13	120.55
1	p	122	PRO	CA-C-N	5.12	125.39	119.92
1	p	122	PRO	C-N-CA	5.12	125.39	119.92
1	s	226	HIS	CA-C-N	5.12	131.31	121.54
1	s	226	HIS	C-N-CA	5.12	131.31	121.54
1	v	12	HIS	N-CA-C	5.12	117.63	109.96
1	x	90	PRO	CA-C-O	-5.12	115.90	121.27
1	B	173	ARG	N-CA-C	5.12	116.86	111.28
1	D	120	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	D	124	ILE	N-CA-CB	-5.12	104.94	111.23
1	G	226	HIS	ND1-CE1-NE2	5.12	113.52	108.40
1	L	136	LEU	CA-C-O	5.12	125.97	120.55
1	R	195	ASN	CA-CB-CG	5.12	117.72	112.60
1	U	150	ILE	CA-C-O	5.12	126.04	120.57
1	gl	128	GLU	N-CA-C	5.11	116.85	111.28
1	gn	167	ARG	CA-C-N	5.11	127.13	120.28
1	gn	167	ARG	C-N-CA	5.11	127.13	120.28
1	gu	1	PRO	N-CA-CB	5.11	108.62	103.00
1	gy	142	VAL	O-C-N	-5.11	116.90	121.91
1	gA	80	TRP	O-C-N	-5.11	116.57	122.09
1	gA	193	ASN	O-C-N	-5.11	115.72	122.42
1	gE	175	GLU	O-C-N	-5.11	116.58	122.87
1	gL	10	MET	CG-SD-CE	-5.11	89.65	100.90
1	gO	57	ASN	CA-CB-CG	-5.11	107.49	112.60
1	gS	119	THR	CA-C-O	5.11	124.98	119.15
1	gV	157	PRO	N-CA-C	-5.11	107.07	114.18
1	gX	55	MET	N-CA-CB	5.11	117.48	110.07
1	h1	173	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	hf	54	THR	CA-C-O	-5.11	115.13	120.55
1	hh	114	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	hl	215	MET	N-CA-C	5.11	119.67	113.38
1	hn	142	VAL	CA-C-O	-5.11	115.75	121.17
1	hp	205	LEU	N-CA-C	-5.11	106.63	112.92
1	hq	59	VAL	N-CA-C	5.11	117.48	111.09
1	hy	3	VAL	N-CA-C	5.11	115.21	107.80
1	hz	138	LEU	N-CA-C	5.11	116.94	111.36
1	1K	77	ALA	CA-C-N	5.11	127.55	120.29
1	1K	77	ALA	C-N-CA	5.11	127.55	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hA	141	ILE	N-CA-CB	-5.11	103.58	110.54
1	hC	92	GLU	CA-C-N	5.11	126.23	119.84
1	hC	92	GLU	C-N-CA	5.11	126.23	119.84
1	hD	10	MET	N-CA-C	5.11	118.28	110.20
1	hD	134	ILE	CA-C-N	5.11	127.47	120.46
1	hD	134	ILE	C-N-CA	5.11	127.47	120.46
1	1L	48	THR	CA-C-N	5.11	125.15	119.32
1	1L	48	THR	C-N-CA	5.11	125.15	119.32
1	hK	40	PHE	N-CA-C	5.11	117.75	111.82
1	hP	215	MET	O-C-N	-5.11	116.32	122.15
1	hV	92	GLU	N-CA-C	5.11	120.42	113.16
1	hW	15	ILE	CA-C-N	5.11	127.75	120.49
1	hW	15	ILE	C-N-CA	5.11	127.75	120.49
1	hX	164	TYR	O-C-N	5.11	127.34	122.07
1	hZ	39	MET	CB-CA-C	5.11	118.91	110.88
1	hZ	117	TRP	O-C-N	-5.11	116.32	122.15
1	i1	27	VAL	CA-C-O	-5.11	115.43	120.85
1	i8	179	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	il	54	THR	O-C-N	-5.11	116.32	122.15
1	iB	127	GLY	CA-C-O	5.11	126.63	120.90
1	iF	53	ASN	CA-C-O	-5.11	114.32	120.10
1	iU	55	MET	CA-C-N	5.11	127.13	120.28
1	iU	55	MET	C-N-CA	5.11	127.13	120.28
1	iU	142	VAL	O-C-N	-5.11	116.90	121.91
1	iZ	98	GLU	CA-C-O	5.11	125.34	119.61
1	j6	188	THR	CA-C-N	5.11	127.39	120.38
1	j6	188	THR	C-N-CA	5.11	127.39	120.38
1	j8	167	ARG	CB-CG-CD	5.11	123.06	111.30
1	jc	138	LEU	CA-C-O	-5.11	115.13	120.55
1	jd	210	THR	CA-C-O	-5.11	115.91	121.89
1	jf	120	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	jk	6	LEU	N-CA-CB	5.11	117.24	110.29
1	jk	148	THR	N-CA-C	-5.11	100.97	108.79
1	jo	188	THR	CA-C-N	5.11	127.09	120.44
1	jo	188	THR	C-N-CA	5.11	127.09	120.44
1	jw	35	GLU	CA-C-O	5.11	125.67	119.38
1	jz	18	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	1X	146	SER	CA-C-O	-5.11	113.15	120.16
1	1Z	58	THR	CA-CB-OG1	5.11	117.27	109.60
1	k2	124	ILE	CA-C-O	5.11	126.80	119.95
1	kc	59	VAL	CB-CA-C	-5.11	105.78	111.35
1	kc	98	GLU	CA-C-N	5.11	126.23	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	98	GLU	C-N-CA	5.11	126.23	119.84
1	21	88	ALA	CA-C-O	5.11	125.47	119.28
1	km	82	ARG	NH1-CZ-NH2	-5.11	112.65	119.30
1	ko	51	ASP	CA-C-N	5.11	127.13	120.28
1	ko	51	ASP	C-N-CA	5.11	127.13	120.28
1	kt	221	VAL	CA-C-N	5.11	130.72	121.92
1	kt	221	VAL	C-N-CA	5.11	130.72	121.92
1	22	134	ILE	CA-C-N	5.11	127.47	120.46
1	22	134	ILE	C-N-CA	5.11	127.47	120.46
1	kv	169	TYR	N-CA-C	5.11	117.52	111.33
1	kA	152	ASP	N-CA-C	5.11	119.37	113.18
1	kE	39	MET	CA-C-N	5.11	127.09	120.44
1	kE	39	MET	C-N-CA	5.11	127.09	120.44
1	kY	36	VAL	CA-C-O	5.11	125.77	119.58
1	l3	173	ARG	N-CA-C	5.11	116.85	111.28
1	l4	32	PHE	O-C-N	-5.11	117.21	123.19
1	26	184	TRP	CB-CA-C	5.11	120.49	110.67
1	le	178	SER	CA-C-O	5.11	127.82	120.51
1	lf	155	GLN	CG-CD-OE1	5.11	131.03	120.80
1	ll	139	ASN	N-CA-CB	5.11	117.42	110.01
1	lC	154	ARG	CB-CG-CD	5.11	123.06	111.30
1	lJ	226	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	2j	183	ASN	CA-C-O	5.11	126.19	120.82
1	2k	202	LEU	N-CA-CB	5.11	117.64	110.12
1	2m	49	PRO	N-CD-CG	5.11	110.87	103.20
1	2s	74	ASN	N-CA-C	5.11	116.85	111.28
1	2v	20	LEU	N-CA-C	5.11	116.66	111.14
1	2y	178	SER	CA-C-N	5.11	127.64	120.28
1	2y	178	SER	C-N-CA	5.11	127.64	120.28
1	2C	225	GLY	N-CA-C	5.11	122.38	115.32
1	2G	67	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	31	193	ASN	O-C-N	-5.11	115.31	122.37
1	33	106	GLY	O-C-N	-5.11	116.82	122.50
1	3f	118	MET	CB-CA-C	-5.11	100.85	110.67
1	3j	12	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	3l	32	PHE	CA-C-N	5.11	127.75	120.49
1	3l	32	PHE	C-N-CA	5.11	127.75	120.49
1	3p	130	TYR	CD1-CG-CD2	-5.11	110.43	118.10
1	3s	216	THR	O-C-N	-5.11	115.98	122.27
1	3t	191	VAL	CA-C-N	5.11	127.55	120.29
1	3t	191	VAL	C-N-CA	5.11	127.55	120.29
1	3C	194	ALA	CA-C-N	5.11	127.50	120.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3C	194	ALA	C-N-CA	5.11	127.50	120.39
1	3D	51	ASP	N-CA-C	5.11	116.66	111.14
1	3D	218	CYS	CA-C-O	5.11	127.32	120.98
1	3R	165	VAL	N-CA-C	5.11	115.84	110.62
1	3V	142	VAL	N-CA-C	5.11	115.73	110.36
1	3W	9	GLN	N-CA-C	-5.11	106.35	112.59
1	4b	13	GLN	O-C-N	-5.11	117.34	123.27
1	4d	93	PRO	N-CA-CB	5.11	107.86	103.31
1	4y	14	ALA	N-CA-C	5.11	117.45	110.24
1	4R	134	ILE	N-CA-CB	5.11	116.19	110.51
1	4V	130	TYR	CA-C-N	5.11	127.13	120.28
1	4V	130	TYR	C-N-CA	5.11	127.13	120.28
1	4X	53	ASN	N-CA-C	5.11	116.85	111.28
1	52	98	GLU	CA-C-O	-5.11	115.02	120.23
1	53	167	ARG	CA-C-O	5.11	125.97	120.55
1	5p	36	VAL	CG1-CB-CG2	5.11	122.05	110.80
1	5q	107	THR	CA-C-O	5.11	126.17	120.90
1	5t	27	VAL	O-C-N	-5.11	116.56	121.83
1	5z	43	LEU	N-CA-C	5.11	116.93	111.36
1	5B	97	ARG	N-CA-C	5.11	117.30	110.35
1	5G	191	VAL	CA-C-O	5.11	125.39	119.36
1	5L	140	LYS	N-CA-CB	5.11	117.42	110.01
1	5Y	7	GLN	CB-CG-CD	5.11	121.29	112.60
1	64	92	GLU	CA-C-O	-5.11	114.91	120.69
1	64	103	ASP	CA-C-N	5.11	128.74	121.02
1	64	103	ASP	C-N-CA	5.11	128.74	121.02
1	64	135	ILE	O-C-N	-5.11	116.91	121.87
1	6b	206	GLY	CA-C-N	5.11	125.19	119.87
1	6b	206	GLY	C-N-CA	5.11	125.19	119.87
1	6f	228	ALA	O-C-N	-5.11	116.28	122.82
1	6o	87	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	6C	102	SER	N-CA-C	5.11	116.85	111.28
1	6E	11	VAL	O-C-N	-5.11	117.44	122.76
1	6P	142	VAL	CA-CB-CG1	5.11	119.09	110.40
1	6P	156	GLY	O-C-N	-5.11	116.66	121.77
1	6V	121	ASN	CA-C-O	-5.11	114.25	120.54
1	7h	61	GLY	O-C-N	-5.11	116.05	122.70
1	7j	42	ALA	CA-C-N	5.11	128.78	120.60
1	7j	42	ALA	C-N-CA	5.11	128.78	120.60
1	7l	205	LEU	CA-C-N	5.11	129.90	121.87
1	7l	205	LEU	C-N-CA	5.11	129.90	121.87
1	7o	212	GLU	O-C-N	-5.11	116.70	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7A	62	HIS	CA-CB-CG	-5.11	108.69	113.80
1	7E	32	PHE	CA-CB-CG	-5.11	108.69	113.80
1	7O	154	ARG	O-C-N	-5.11	116.28	122.82
1	7Y	75	GLU	CA-C-N	5.11	129.26	120.72
1	7Y	75	GLU	C-N-CA	5.11	129.26	120.72
1	84	204	ALA	CA-C-N	5.11	127.40	120.65
1	84	204	ALA	C-N-CA	5.11	127.40	120.65
1	8a	210	THR	CA-C-N	5.11	128.08	120.31
1	8a	210	THR	C-N-CA	5.11	128.08	120.31
1	8e	95	GLN	O-C-N	-5.11	116.52	122.81
1	8o	158	LYS	CA-C-N	5.11	127.75	120.49
1	8o	158	LYS	C-N-CA	5.11	127.75	120.49
1	8x	146	SER	O-C-N	-5.11	115.70	121.43
1	8G	80	TRP	CA-CB-CG	5.11	123.32	113.60
1	8I	224	PRO	CA-C-O	-5.11	115.58	121.36
1	8J	203	LYS	N-CA-CB	-5.11	102.60	110.12
1	8P	228	ALA	N-CA-CB	-5.11	102.95	110.26
1	90	84	HIS	CB-CG-CD2	-5.11	124.55	131.20
1	95	15	ILE	CA-CB-CG1	5.11	119.09	110.40
1	9e	79	GLU	CA-C-O	5.11	125.85	119.97
1	9i	84	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	9u	215	MET	N-CA-CB	5.11	117.64	110.12
1	9A	160	PRO	O-C-N	-5.11	116.50	122.99
1	9J	183	ASN	N-CA-CB	5.11	117.59	109.82
1	a0	50	GLN	N-CA-C	5.11	117.52	111.33
1	aa	165	VAL	N-CA-C	5.11	115.33	110.42
1	ab	38	PRO	N-CA-C	-5.11	106.87	113.57
1	aj	200	THR	CA-C-N	5.11	127.00	120.56
1	aj	200	THR	C-N-CA	5.11	127.00	120.56
1	aq	74	ASN	N-CA-CB	5.11	117.64	110.12
1	ar	85	PRO	CB-CA-C	5.11	120.00	111.56
1	12	167	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	ay	95	GLN	CA-C-N	5.11	130.81	122.07
1	ay	95	GLN	C-N-CA	5.11	130.81	122.07
1	aE	135	ILE	CA-C-N	5.11	127.39	120.38
1	aE	135	ILE	C-N-CA	5.11	127.39	120.38
1	aF	91	ILE	O-C-N	-5.11	117.78	123.20
1	aS	32	PHE	CA-C-O	5.11	126.71	120.62
1	aT	56	LEU	CA-C-O	5.11	125.85	119.97
1	aW	132	ARG	CA-C-O	5.11	126.19	120.82
1	aY	18	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	aY	130	TYR	N-CA-CB	-5.11	102.59	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	b9	92	GLU	N-CA-C	5.11	120.52	113.77
1	ba	121	ASN	CA-CB-CG	-5.11	107.49	112.60
1	bh	117	TRP	CA-C-N	5.11	128.08	120.31
1	bh	117	TRP	C-N-CA	5.11	128.08	120.31
1	bj	119	THR	CA-C-N	5.11	130.28	120.97
1	bj	119	THR	C-N-CA	5.11	130.28	120.97
1	bv	163	ASP	O-C-N	-5.11	115.48	122.33
1	bw	34	PRO	N-CD-CG	5.11	110.87	103.20
1	bw	223	GLY	N-CA-C	5.11	122.77	112.34
1	by	66	MET	O-C-N	-5.11	115.98	122.27
1	bD	37	ILE	N-CA-C	5.11	118.48	112.35
1	bL	37	ILE	N-CA-CB	5.11	118.37	111.21
1	bR	82	ARG	NH1-CZ-NH2	-5.11	112.65	119.30
1	1b	33	SER	N-CA-CB	5.11	117.14	109.88
1	c2	87	HIS	CG-CD2-NE2	5.11	112.31	107.20
1	c5	81	ASP	O-C-N	-5.11	115.40	122.46
1	cc	5	ASN	N-CA-C	5.11	117.64	110.23
1	cd	148	THR	CB-CA-C	5.11	118.21	109.72
1	co	84	HIS	CB-CA-C	-5.11	104.81	111.15
1	cr	226	HIS	CB-CG-ND1	5.11	130.37	122.70
1	cz	138	LEU	CA-C-N	5.11	127.44	120.54
1	cz	138	LEU	C-N-CA	5.11	127.44	120.54
1	cM	4	GLN	CA-C-N	5.11	129.57	122.77
1	cM	4	GLN	C-N-CA	5.11	129.57	122.77
1	cO	133	TRP	CA-C-N	5.11	127.00	120.56
1	cO	133	TRP	C-N-CA	5.11	127.00	120.56
1	1h	50	GLN	N-CA-C	5.11	116.85	111.28
1	cW	6	LEU	N-CA-CB	5.11	119.13	110.49
1	cY	51	ASP	CA-C-N	5.11	127.13	120.28
1	cY	51	ASP	C-N-CA	5.11	127.13	120.28
1	cY	223	GLY	N-CA-C	5.11	122.77	112.34
1	1i	62	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	d6	137	GLY	CA-C-N	5.11	127.13	120.28
1	d6	137	GLY	C-N-CA	5.11	127.13	120.28
1	d8	133	TRP	CA-C-N	5.11	127.68	120.42
1	d8	133	TRP	C-N-CA	5.11	127.68	120.42
1	d9	147	PRO	CB-CA-C	5.11	118.08	111.64
1	dc	54	THR	CA-C-N	5.11	127.13	120.28
1	dc	54	THR	C-N-CA	5.11	127.13	120.28
1	dk	125	PRO	N-CA-CB	5.11	106.11	102.28
1	dl	51	ASP	CB-CA-C	-5.11	102.16	110.85
1	dr	6	LEU	N-CA-C	5.11	117.89	110.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	du	171	THR	CA-C-N	5.11	127.13	120.28
1	du	171	THR	C-N-CA	5.11	127.13	120.28
1	dv	129	ILE	CA-C-O	-5.11	115.95	121.27
1	dz	58	THR	CA-C-N	5.11	129.37	122.93
1	dz	58	THR	C-N-CA	5.11	129.37	122.93
1	dE	120	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	dL	46	GLY	O-C-N	-5.11	115.55	122.35
1	dO	143	ARG	CB-CA-C	-5.11	102.30	110.79
1	dT	171	THR	CA-C-N	5.11	128.08	120.31
1	dT	171	THR	C-N-CA	5.11	128.08	120.31
1	ea	197	ASP	CA-CB-CG	-5.11	107.49	112.60
1	1q	147	PRO	CA-C-N	5.11	129.51	120.87
1	1q	147	PRO	C-N-CA	5.11	129.51	120.87
1	eu	96	MET	CA-C-N	5.11	128.97	120.94
1	eu	96	MET	C-N-CA	5.11	128.97	120.94
1	1r	27	VAL	N-CA-CB	-5.11	103.59	110.54
1	ex	129	ILE	N-CA-C	5.11	115.33	110.42
1	ez	125	PRO	CA-C-N	5.11	128.55	120.47
1	ez	125	PRO	C-N-CA	5.11	128.55	120.47
1	eG	33	SER	O-C-N	-5.11	118.27	121.85
1	eO	48	THR	O-C-N	-5.11	115.70	121.43
1	eS	28	GLU	CA-C-N	5.11	129.38	120.68
1	eS	28	GLU	C-N-CA	5.11	129.38	120.68
1	eS	84	HIS	CA-CB-CG	-5.11	108.69	113.80
1	eU	51	ASP	N-CA-C	5.11	116.85	111.28
1	eU	226	HIS	CA-CB-CG	5.11	118.91	113.80
1	eY	201	ILE	CA-C-N	5.11	127.64	120.28
1	eY	201	ILE	C-N-CA	5.11	127.64	120.28
1	f0	178	SER	N-CA-C	5.11	117.13	110.43
1	f1	55	MET	CG-SD-CE	-5.11	89.65	100.90
1	fb	197	ASP	N-CA-CB	5.11	117.73	110.16
1	fi	47	ALA	N-CA-C	5.11	117.72	110.10
1	1x	24	VAL	O-C-N	5.11	126.83	121.87
1	fB	180	GLU	CB-CA-C	5.11	118.98	110.90
1	fF	197	ASP	CB-CA-C	-5.11	102.85	110.88
1	fO	31	ALA	CA-C-O	-5.11	115.13	120.55
1	fU	144	MET	O-C-N	-5.11	115.98	122.27
1	fY	72	THR	N-CA-CB	5.11	117.73	110.16
1	g1	134	ILE	N-CA-C	5.11	115.84	110.62
1	g3	193	ASN	CA-C-O	5.11	125.47	119.28
1	g5	47	ALA	O-C-N	-5.11	116.65	122.89
1	g6	186	THR	N-CA-C	5.11	117.59	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g	114	GLN	CA-C-N	5.11	127.00	120.56
1	g	114	GLN	C-N-CA	5.11	127.00	120.56
1	g	180	GLU	N-CA-C	5.11	116.66	111.14
1	p	129	ILE	CB-CA-C	-5.11	105.32	112.02
1	w	224	PRO	O-C-N	-5.11	116.67	123.01
1	R	201	ILE	CA-C-O	5.11	126.27	120.95
1	gi	74	ASN	CA-C-N	5.11	127.55	120.29
1	gi	74	ASN	C-N-CA	5.11	127.55	120.29
1	gv	221	VAL	N-CA-C	5.11	115.94	108.58
1	gI	78	ALA	CA-C-O	-5.11	115.13	120.55
1	gQ	80	TRP	CB-CG-CD2	5.11	133.96	126.80
1	h1	1	PRO	CB-CA-C	5.11	119.81	110.10
1	h1	176	GLN	CA-C-O	5.11	124.98	119.15
1	h7	121	ASN	N-CA-C	5.11	120.00	109.11
1	he	222	GLY	CA-C-N	5.11	129.90	121.87
1	he	222	GLY	C-N-CA	5.11	129.90	121.87
1	hg	154	ARG	CD-NE-CZ	5.11	131.56	124.40
1	hi	100	ARG	NH1-CZ-NH2	5.11	125.95	119.30
1	hC	56	LEU	CA-C-O	5.11	125.84	120.42
1	hM	203	LYS	O-C-N	-5.11	116.70	122.12
1	i8	178	SER	CA-C-N	5.11	127.13	120.28
1	i8	178	SER	C-N-CA	5.11	127.13	120.28
1	ib	138	LEU	CA-C-O	5.11	125.97	120.55
1	ic	20	LEU	O-C-N	5.11	127.34	122.07
1	ij	117	TRP	CG-CD1-NE1	-5.11	103.56	110.20
1	1P	168	PHE	CA-CB-CG	-5.11	108.69	113.80
1	iA	12	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	1R	87	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	jL	120	HIS	CA-C-N	5.11	129.03	122.64
1	jL	120	HIS	C-N-CA	5.11	129.03	122.64
1	21	52	LEU	N-CA-CB	5.11	117.63	110.12
1	kr	10	MET	CG-SD-CE	-5.11	89.66	100.90
1	kz	214	MET	O-C-N	-5.11	115.41	122.46
1	kG	145	TYR	N-CA-CB	-5.11	102.99	110.40
1	kP	25	LYS	CA-C-O	5.11	125.97	120.55
1	kR	124	ILE	CA-CB-CG2	-5.11	101.81	110.50
1	l1	142	VAL	CA-C-N	5.11	127.44	120.54
1	l1	142	VAL	C-N-CA	5.11	127.44	120.54
1	l2	136	LEU	CA-C-N	5.11	125.62	120.00
1	l2	136	LEU	C-N-CA	5.11	125.62	120.00
1	l2	206	GLY	CA-C-N	5.11	126.23	119.84
1	l2	206	GLY	C-N-CA	5.11	126.23	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l5	79	GLU	CA-C-N	5.11	127.13	120.28
1	l5	79	GLU	C-N-CA	5.11	127.13	120.28
1	la	200	THR	CA-C-O	5.11	125.88	120.10
1	lw	153	ILE	N-CA-C	5.11	115.59	108.84
1	lJ	132	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	lP	84	HIS	CB-CG-ND1	5.11	130.37	122.70
1	2m	209	ALA	CA-C-O	5.11	125.51	119.48
1	2n	200	THR	N-CA-CB	5.11	118.73	110.40
1	2v	114	GLN	N-CA-C	5.11	119.81	111.37
1	2T	52	LEU	CA-C-N	5.11	127.08	120.44
1	2T	52	LEU	C-N-CA	5.11	127.08	120.44
1	33	80	TRP	CA-C-N	5.11	127.13	120.28
1	33	80	TRP	C-N-CA	5.11	127.13	120.28
1	3a	4	GLN	O-C-N	-5.11	117.95	123.42
1	3A	222	GLY	CA-C-N	5.11	129.90	121.87
1	3A	222	GLY	C-N-CA	5.11	129.90	121.87
1	3Z	117	TRP	CG-CD1-NE1	-5.11	103.55	110.20
1	3Z	163	ASP	CA-CB-CG	-5.11	107.49	112.60
1	47	90	PRO	N-CA-C	-5.11	101.94	112.47
1	4g	18	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	4z	4	GLN	CA-C-O	5.11	127.82	120.51
1	4T	34	PRO	N-CA-C	-5.11	107.47	113.86
1	4T	58	THR	CA-C-O	5.11	125.58	119.60
1	5o	114	GLN	N-CA-C	5.11	116.54	111.07
1	5r	100	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	5Q	148	THR	CB-CA-C	-5.11	102.59	110.26
1	63	23	TRP	N-CA-C	5.11	116.85	111.28
1	66	51	ASP	O-C-N	-5.11	116.70	122.12
1	6h	170	LYS	CA-C-N	5.11	127.13	120.28
1	6h	170	LYS	C-N-CA	5.11	127.13	120.28
1	6j	3	VAL	O-C-N	-5.11	117.74	123.26
1	6p	43	LEU	N-CA-CB	-5.11	102.61	110.12
1	6q	197	ASP	CA-C-N	5.11	127.55	120.29
1	6q	197	ASP	C-N-CA	5.11	127.55	120.29
1	6v	33	SER	CA-C-N	5.11	125.40	119.47
1	6v	33	SER	C-N-CA	5.11	125.40	119.47
1	6C	195	ASN	O-C-N	-5.11	117.48	121.47
1	6K	105	ALA	CA-C-N	-5.11	114.48	122.51
1	6K	105	ALA	C-N-CA	-5.11	114.48	122.51
1	7a	36	VAL	CA-CB-CG2	-5.11	101.71	110.40
1	7b	74	ASN	O-C-N	-5.11	116.80	122.07
1	7H	182	LYS	N-CA-C	5.11	116.54	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	82	52	LEU	N-CA-CB	5.11	117.48	110.07
1	8q	48	THR	N-CA-CB	5.11	116.19	109.55
1	8M	110	THR	CA-C-N	5.11	127.09	120.44
1	8M	110	THR	C-N-CA	5.11	127.09	120.44
1	8P	59	VAL	O-C-N	-5.11	117.04	122.61
1	8S	98	GLU	N-CA-CB	5.11	118.01	109.98
1	9l	152	ASP	CA-C-O	5.11	125.86	119.78
1	9q	120	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	9q	227	LYS	N-CA-C	-5.11	104.76	112.99
1	9J	3	VAL	N-CA-CB	-5.11	105.36	112.52
1	9Q	34	PRO	N-CA-CB	5.11	108.62	103.25
1	9Q	52	LEU	O-C-N	-5.11	116.70	122.12
1	9X	200	THR	CA-C-O	5.11	125.84	120.42
1	9Y	85	PRO	CA-C-O	-5.11	115.70	121.43
1	al	95	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	aA	87	HIS	O-C-N	-5.11	116.61	122.95
1	aG	8	GLY	CA-C-O	-5.11	116.07	122.61
1	aG	97	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	aI	206	GLY	CA-C-N	5.11	125.56	120.04
1	aI	206	GLY	C-N-CA	5.11	125.56	120.04
1	bn	91	ILE	CA-C-O	5.11	126.77	120.84
1	bA	100	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	bH	48	THR	N-CA-CB	5.11	117.14	109.88
1	1a	133	TRP	CZ3-CH2-CZ2	5.11	128.15	121.50
1	bT	223	GLY	CA-C-N	5.11	125.35	119.83
1	bT	223	GLY	C-N-CA	5.11	125.35	119.83
1	bY	64	ALA	N-CA-C	-5.11	105.79	112.23
1	c7	74	ASN	N-CA-CB	5.11	117.73	110.16
1	cn	139	ASN	N-CA-CB	5.11	117.63	110.12
1	co	87	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	d3	127	GLY	CA-C-N	5.11	127.39	120.44
1	d3	127	GLY	C-N-CA	5.11	127.39	120.44
1	d9	70	LYS	O-C-N	-5.11	116.57	122.09
1	dH	23	TRP	CB-CG-CD1	5.11	134.57	126.90
1	e1	210	THR	CA-CB-OG1	5.11	117.27	109.60
1	ea	152	ASP	O-C-N	-5.11	115.51	122.36
1	eb	178	SER	N-CA-C	5.11	117.88	110.42
1	ef	134	ILE	CB-CA-C	-5.11	105.43	111.97
1	1q	107	THR	N-CA-C	5.11	119.57	113.23
1	eq	125	PRO	CB-CA-C	5.11	119.99	111.56
1	er	141	ILE	O-C-N	-5.11	116.90	121.91
1	ez	29	GLU	CA-C-N	5.11	130.26	122.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ez	29	GLU	C-N-CA	5.11	130.26	122.23
1	eA	167	ARG	CD-NE-CZ	5.11	131.56	124.40
1	eF	23	TRP	N-CA-CB	-5.11	102.61	110.12
1	eM	117	TRP	CA-CB-CG	5.11	123.31	113.60
1	eZ	154	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	fl	97	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	fD	120	HIS	CB-CA-C	5.11	118.77	109.62
1	fG	80	TRP	N-CA-CB	-5.11	102.59	110.16
1	fN	28	GLU	N-CA-CB	5.11	117.82	110.20
1	fU	174	ALA	N-CA-C	5.11	117.75	111.82
1	g2	161	PHE	CA-C-N	5.11	127.13	120.28
1	g2	161	PHE	C-N-CA	5.11	127.13	120.28
1	e	211	LEU	O-C-N	-5.11	116.70	122.12
1	y	184	TRP	O-C-N	-5.11	116.80	122.07
1	B	80	TRP	CB-CG-CD1	-5.11	119.23	126.90
1	B	99	PRO	N-CD-CG	5.11	110.87	103.20
1	V	176	GLN	CA-C-O	5.11	125.62	119.59
1	g8	229	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	g9	187	GLU	CA-C-O	5.11	125.84	120.42
1	gc	103	ASP	CA-CB-CG	-5.11	107.49	112.60
1	gi	173	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	gD	132	ARG	CA-C-N	5.11	127.55	120.29
1	gD	132	ARG	C-N-CA	5.11	127.55	120.29
1	gG	204	ALA	CA-C-N	5.11	128.08	120.31
1	gG	204	ALA	C-N-CA	5.11	128.08	120.31
1	gY	171	THR	CB-CA-C	-5.11	102.16	110.85
1	h6	114	GLN	CA-C-O	5.11	126.36	121.00
1	hd	155	GLN	N-CA-CB	-5.11	102.34	110.06
1	he	146	SER	N-CA-CB	5.11	118.00	109.98
1	hf	68	MET	CG-SD-CE	-5.11	89.66	100.90
1	hg	82	ARG	CB-CG-CD	5.11	123.05	111.30
1	1J	133	TRP	O-C-N	5.11	127.54	122.12
1	hv	62	HIS	CA-C-N	5.11	127.13	120.28
1	hv	62	HIS	C-N-CA	5.11	127.13	120.28
1	hx	83	LEU	CA-C-O	5.11	125.84	120.42
1	hC	197	ASP	N-CA-CB	5.11	117.63	110.12
1	hE	103	ASP	CA-C-O	-5.11	115.00	120.42
1	hG	227	LYS	N-CA-C	5.11	116.88	110.24
1	hK	20	LEU	O-C-N	5.11	127.33	122.07
1	1N	166	ASP	CA-CB-CG	5.11	117.71	112.60
1	1N	178	SER	CA-CB-OG	5.11	121.32	111.10
1	i7	35	GLU	CA-C-O	-5.11	113.76	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ia	138	LEU	N-CA-C	5.11	116.93	111.36
1	ih	177	ALA	N-CA-C	5.11	119.23	112.89
1	ij	6	LEU	CA-C-O	5.11	124.11	119.00
1	ij	133	TRP	CB-CG-CD1	-5.11	119.23	126.90
1	io	13	GLN	N-CA-C	-5.11	101.07	109.40
1	iw	63	GLN	CA-C-N	5.11	127.13	120.28
1	iw	63	GLN	C-N-CA	5.11	127.13	120.28
1	iF	3	VAL	CA-C-O	-5.11	115.30	120.31
1	iG	191	VAL	CA-CB-CG1	5.11	119.09	110.40
1	iO	167	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	iQ	103	ASP	N-CA-CB	-5.11	102.35	110.22
1	1S	126	VAL	O-C-N	-5.11	116.03	121.80
1	iT	87	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	j0	70	LYS	N-CA-C	5.11	116.54	111.07
1	j4	117	TRP	CA-CB-CG	5.11	123.31	113.60
1	j6	44	SER	CB-CA-C	-5.11	102.51	110.94
1	j8	207	PRO	N-CA-C	-5.11	107.37	114.27
1	jb	14	ALA	N-CA-C	5.11	117.71	110.50
1	je	20	LEU	N-CA-C	-5.11	105.71	111.28
1	js	81	ASP	N-CA-CB	5.11	118.17	110.30
1	1W	65	ALA	CA-C-O	-5.11	115.13	120.55
1	jB	82	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	jK	79	GLU	N-CA-C	5.11	117.51	111.33
1	jM	104	ILE	N-CA-C	5.11	115.83	110.62
1	1Y	128	GLU	CA-C-N	5.11	127.10	120.56
1	1Y	128	GLU	C-N-CA	5.11	127.10	120.56
1	jQ	80	TRP	CA-C-N	5.11	127.64	120.28
1	jQ	80	TRP	C-N-CA	5.11	127.64	120.28
1	jW	175	GLU	CB-CA-C	5.11	118.68	109.64
1	kb	169	TYR	CA-CB-CG	-5.11	104.70	113.90
1	ke	184	TRP	CA-CB-CG	5.11	123.31	113.60
1	kf	133	TRP	CD2-CE2-CZ2	-5.11	117.29	122.40
1	kr	2	ILE	CB-CA-C	-5.11	103.07	110.63
1	kB	204	ALA	N-CA-CB	-5.11	102.61	110.12
1	kC	112	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	kG	18	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	kJ	79	GLU	CA-C-N	5.11	129.32	120.58
1	kJ	79	GLU	C-N-CA	5.11	129.32	120.58
1	kL	116	GLY	O-C-N	-5.11	117.27	122.18
1	kS	4	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	kW	92	GLU	CB-CG-CD	-5.11	103.91	112.60
1	25	2	ILE	CA-C-N	5.11	128.96	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	25	2	ILE	C-N-CA	5.11	128.96	122.37
1	l4	131	LYS	CA-C-O	5.11	125.97	120.55
1	l5	15	ILE	O-C-N	-5.11	117.21	122.63
1	l6	58	THR	CA-C-O	5.11	124.97	119.15
1	lc	165	VAL	CA-C-N	5.11	127.39	120.44
1	lc	165	VAL	C-N-CA	5.11	127.39	120.44
1	lh	216	THR	O-C-N	-5.11	115.95	122.34
1	ll	106	GLY	N-CA-C	5.11	122.96	113.76
1	lm	131	LYS	CA-C-N	5.11	127.13	120.28
1	lm	131	LYS	C-N-CA	5.11	127.13	120.28
1	ln	186	THR	N-CA-C	5.11	119.50	113.16
1	lG	186	THR	CA-CB-OG1	-5.11	101.94	109.60
1	lH	192	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	lM	50	GLN	CB-CG-CD	5.11	121.29	112.60
1	2q	112	GLN	O-C-N	-5.11	116.70	122.12
1	2r	129	ILE	N-CA-CB	5.11	117.49	110.54
1	2v	17	PRO	N-CA-C	-5.11	106.88	113.57
1	2D	103	ASP	CA-C-O	5.11	126.19	120.82
1	2L	85	PRO	CA-C-N	5.11	128.15	120.69
1	2L	85	PRO	C-N-CA	5.11	128.15	120.69
1	2N	93	PRO	CA-C-O	-5.11	115.90	121.27
1	2Z	162	ARG	O-C-N	-5.11	116.38	122.20
1	37	73	ILE	CB-CG1-CD1	-5.11	103.07	113.80
1	38	37	ILE	CA-C-O	5.11	122.11	118.69
1	3h	203	LYS	CG-CD-CE	5.11	123.05	111.30
1	3v	220	GLY	CA-C-N	5.11	128.29	122.36
1	3v	220	GLY	C-N-CA	5.11	128.29	122.36
1	3z	114	GLN	O-C-N	-5.11	116.32	122.15
1	3z	173	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	3C	147	PRO	N-CA-CB	5.11	107.04	101.88
1	3C	168	PHE	CA-CB-CG	5.11	118.91	113.80
1	3L	129	ILE	CA-C-N	5.11	127.08	120.44
1	3L	129	ILE	C-N-CA	5.11	127.08	120.44
1	3U	226	HIS	N-CA-C	5.11	117.64	110.23
1	45	31	ALA	CB-CA-C	-5.11	109.71	115.79
1	45	90	PRO	CB-CA-C	-5.11	104.69	111.23
1	48	85	PRO	O-C-N	-5.11	117.61	123.03
1	4a	124	ILE	O-C-N	-5.11	116.37	121.12
1	4a	126	VAL	CA-C-O	5.11	126.36	121.05
1	4j	87	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	4k	37	ILE	CA-CB-CG2	5.11	119.19	110.50
1	4l	174	ALA	CA-C-O	5.11	125.62	119.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4o	80	TRP	CA-C-O	-5.11	115.45	120.82
1	4s	87	HIS	O-C-N	-5.11	116.28	122.82
1	4z	96	MET	N-CA-CB	5.11	117.48	110.07
1	4E	58	THR	N-CA-CB	5.11	118.14	110.53
1	4F	29	GLU	CB-CA-C	5.11	119.92	109.55
1	4I	185	MET	CG-SD-CE	-5.11	89.66	100.90
1	4R	30	LYS	CB-CG-CD	5.11	123.05	111.30
1	4S	95	GLN	O-C-N	-5.11	117.24	123.27
1	4S	129	ILE	CA-C-O	5.11	126.27	120.85
1	4X	40	PHE	N-CA-C	5.11	116.54	111.07
1	4X	96	MET	CG-SD-CE	-5.11	89.66	100.90
1	51	18	ARG	CA-C-N	5.11	127.38	120.38
1	51	18	ARG	C-N-CA	5.11	127.38	120.38
1	53	226	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	5j	133	TRP	CA-C-N	5.11	127.46	120.46
1	5j	133	TRP	C-N-CA	5.11	127.46	120.46
1	5k	25	LYS	CA-C-N	5.11	127.00	120.56
1	5k	25	LYS	C-N-CA	5.11	127.00	120.56
1	5z	67	GLN	CG-CD-OE1	5.11	131.02	120.80
1	5D	57	ASN	O-C-N	-5.11	115.80	122.39
1	5I	143	ARG	N-CA-C	5.11	116.85	111.28
1	5L	33	SER	O-C-N	-5.11	115.44	121.32
1	5T	111	LEU	CA-C-O	5.11	126.37	120.90
1	5V	24	VAL	CG1-CB-CG2	-5.11	99.56	110.80
1	63	81	ASP	N-CA-C	-5.11	105.79	112.23
1	63	211	LEU	N-CA-C	5.11	116.85	111.28
1	64	214	MET	N-CA-C	5.11	117.75	111.82
1	67	31	ALA	N-CA-C	5.11	117.20	108.67
1	6t	170	LYS	N-CA-CB	5.11	117.72	110.16
1	6J	171	THR	O-C-N	-5.11	116.81	122.07
1	6Q	159	GLU	CA-C-N	5.11	125.11	119.90
1	6Q	159	GLU	C-N-CA	5.11	125.11	119.90
1	6X	203	LYS	CA-C-N	5.11	127.55	120.29
1	6X	203	LYS	C-N-CA	5.11	127.55	120.29
1	76	138	LEU	N-CA-C	5.11	116.85	111.28
1	7e	167	ARG	CD-NE-CZ	-5.11	117.25	124.40
1	7p	148	THR	N-CA-C	5.11	116.74	108.26
1	7r	68	MET	CG-SD-CE	-5.11	89.66	100.90
1	7z	162	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	7C	17	PRO	N-CA-C	-5.11	107.74	114.03
1	7D	54	THR	O-C-N	-5.11	116.70	122.12
1	7L	113	GLU	CA-C-O	5.11	125.84	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7O	133	TRP	N-CA-CB	5.11	118.09	110.22
1	7P	15	ILE	N-CA-CB	5.11	117.12	110.99
1	7W	103	ASP	CA-C-O	5.11	125.96	120.70
1	8b	218	CYS	O-C-N	-5.11	115.79	122.59
1	8f	39	MET	CG-SD-CE	-5.11	89.66	100.90
1	8s	44	SER	CB-CA-C	-5.11	99.17	109.55
1	8x	166	ASP	O-C-N	-5.11	116.77	122.09
1	8x	179	GLN	N-CA-C	5.11	116.54	111.07
1	8C	37	ILE	CA-C-N	5.11	124.61	119.19
1	8C	37	ILE	C-N-CA	5.11	124.61	119.19
1	8C	102	SER	O-C-N	-5.11	116.24	122.22
1	8N	164	TYR	CG-CD2-CE2	-5.11	113.53	121.20
1	90	197	ASP	O-C-N	5.11	127.33	122.07
1	9c	169	TYR	O-C-N	-5.11	116.32	122.15
1	9e	64	ALA	O-C-N	-5.11	116.81	122.07
1	9h	159	GLU	CA-C-O	-5.11	115.53	119.46
1	9y	74	ASN	CA-C-N	5.11	127.13	120.28
1	9y	74	ASN	C-N-CA	5.11	127.13	120.28
1	9F	68	MET	N-CA-CB	5.11	117.63	110.12
1	9N	80	TRP	CH2-CZ2-CE2	5.11	124.14	117.50
1	9O	88	ALA	N-CA-CB	-5.11	102.74	110.92
1	9W	224	PRO	CA-C-N	5.11	131.43	121.41
1	9W	224	PRO	C-N-CA	5.11	131.43	121.41
1	9X	41	SER	CA-C-O	-5.11	115.00	120.42
1	ae	211	LEU	CA-C-O	5.11	125.84	120.42
1	af	113	GLU	CB-CG-CD	-5.11	103.91	112.60
1	11	81	ASP	CA-C-O	5.11	125.82	119.79
1	an	147	PRO	O-C-N	-5.11	116.10	122.23
1	ar	90	PRO	O-C-N	-5.11	117.13	123.01
1	au	116	GLY	CA-C-N	5.11	127.08	120.44
1	au	116	GLY	C-N-CA	5.11	127.08	120.44
1	aB	145	TYR	N-CA-CB	5.11	119.09	110.92
1	aG	75	GLU	N-CA-CB	5.11	117.42	110.01
1	aI	179	GLN	O-C-N	-5.11	116.70	122.12
1	b4	48	THR	CA-C-N	5.11	125.14	119.32
1	b4	48	THR	C-N-CA	5.11	125.14	119.32
1	be	193	ASN	CA-C-N	5.11	130.05	120.95
1	be	193	ASN	C-N-CA	5.11	130.05	120.95
1	bg	173	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	bi	48	THR	O-C-N	-5.11	115.81	121.53
1	bC	98	GLU	CA-C-O	-5.11	115.47	119.66
1	bE	78	ALA	CA-C-N	5.11	127.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bE	78	ALA	C-N-CA	5.11	127.08	120.44
1	bW	129	ILE	CB-CA-C	-5.11	105.24	112.14
1	c0	192	GLN	O-C-N	-5.11	116.33	122.15
1	c0	216	THR	CA-C-O	5.11	125.84	120.42
1	1c	210	THR	CA-C-N	5.11	127.55	120.29
1	1c	210	THR	C-N-CA	5.11	127.55	120.29
1	c9	133	TRP	CZ3-CH2-CZ2	5.11	128.14	121.50
1	ch	124	ILE	O-C-N	-5.11	115.28	121.10
1	ci	119	THR	CA-C-N	5.11	128.33	120.82
1	ci	119	THR	C-N-CA	5.11	128.33	120.82
1	cl	205	LEU	CA-C-N	5.11	129.90	121.87
1	cl	205	LEU	C-N-CA	5.11	129.90	121.87
1	cq	164	TYR	CA-C-O	-5.11	115.45	120.82
1	cu	229	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	cw	15	ILE	N-CA-C	5.11	115.83	108.93
1	cw	175	GLU	CA-C-O	5.11	125.99	120.32
1	cT	164	TYR	CA-C-O	5.11	125.65	119.31
1	cZ	171	THR	N-CA-CB	5.11	118.17	110.30
1	1i	14	ALA	CA-C-N	5.11	127.35	120.50
1	1i	14	ALA	C-N-CA	5.11	127.35	120.50
1	d4	3	VAL	CA-C-N	5.11	129.66	122.46
1	d4	3	VAL	C-N-CA	5.11	129.66	122.46
1	d6	113	GLU	CA-C-N	5.11	127.08	120.44
1	d6	113	GLU	C-N-CA	5.11	127.08	120.44
1	d9	63	GLN	O-C-N	-5.11	116.70	122.12
1	1j	96	MET	CG-SD-CE	-5.11	89.66	100.90
1	dr	190	LEU	N-CA-C	5.11	116.93	111.36
1	dB	25	LYS	N-CA-C	5.11	116.54	111.07
1	dG	65	ALA	O-C-N	-5.11	116.70	122.12
1	dL	163	ASP	CA-CB-CG	5.11	117.71	112.60
1	dU	28	GLU	O-C-N	-5.11	116.70	122.12
1	dW	121	ASN	N-CA-CB	-5.11	101.18	110.23
1	e5	62	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	eu	193	ASN	O-C-N	-5.11	115.32	122.37
1	ev	80	TRP	CA-C-N	5.11	127.08	120.44
1	ev	80	TRP	C-N-CA	5.11	127.08	120.44
1	eE	190	LEU	CA-C-O	-5.11	115.13	120.55
1	eK	17	PRO	CB-CA-C	-5.11	103.72	111.44
1	eN	119	THR	CA-C-N	5.11	128.47	120.75
1	eN	119	THR	C-N-CA	5.11	128.47	120.75
1	eO	47	ALA	CA-C-N	5.11	128.42	120.60
1	eO	47	ALA	C-N-CA	5.11	128.42	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eP	173	ARG	N-CA-C	5.11	116.85	111.28
1	eX	215	MET	N-CA-C	5.11	117.59	111.71
1	eY	53	ASN	N-CA-C	5.11	116.85	111.28
1	eZ	223	GLY	CA-C-N	5.11	125.11	119.90
1	eZ	223	GLY	C-N-CA	5.11	125.11	119.90
1	1u	92	GLU	N-CA-C	5.11	117.42	110.01
1	f7	176	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	fm	66	MET	N-CA-CB	-5.11	102.36	110.28
1	fo	50	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	fu	187	GLU	N-CA-CB	-5.11	103.01	110.47
1	fy	166	ASP	O-C-N	-5.11	116.70	122.12
1	1y	20	LEU	CB-CA-C	-5.11	102.86	110.88
1	fF	166	ASP	CA-CB-CG	5.11	117.71	112.60
1	fS	230	VAL	O-C-N	5.11	127.42	122.05
1	fT	136	LEU	CA-C-N	5.11	125.76	119.99
1	fT	136	LEU	C-N-CA	5.11	125.76	119.99
1	fT	226	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	g1	10	MET	N-CA-C	5.11	117.84	110.28
1	g2	171	THR	N-CA-CB	5.11	117.63	110.12
1	g4	70	LYS	CA-C-N	5.11	127.13	120.28
1	g4	70	LYS	C-N-CA	5.11	127.13	120.28
1	g	19	THR	N-CA-CB	5.11	117.42	110.01
1	q	59	VAL	N-CA-CB	5.11	116.10	110.53
1	C	189	LEU	N-CA-C	5.11	116.54	111.07
1	I	66	MET	CA-C-N	5.11	127.13	120.28
1	I	66	MET	C-N-CA	5.11	127.13	120.28
1	N	16	SER	CA-C-O	-5.11	114.50	119.51
1	1D	226	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	gO	56	LEU	CA-C-N	5.11	127.55	120.29
1	gO	56	LEU	C-N-CA	5.11	127.55	120.29
1	gZ	213	GLU	N-CA-C	-5.11	105.79	111.36
1	h8	121	ASN	O-C-N	-5.11	116.47	121.38
1	hn	130	TYR	O-C-N	-5.11	116.33	122.15
1	1J	161	PHE	CA-C-N	5.11	128.48	120.82
1	1J	161	PHE	C-N-CA	5.11	128.48	120.82
1	hz	195	ASN	N-CA-C	5.11	116.94	109.84
1	ii	8	GLY	CA-C-N	5.11	128.08	120.31
1	ii	8	GLY	C-N-CA	5.11	128.08	120.31
1	im	172	LEU	CA-C-N	5.11	127.13	120.28
1	im	172	LEU	C-N-CA	5.11	127.13	120.28
1	iq	163	ASP	CA-CB-CG	5.11	117.71	112.60
1	ir	182	LYS	N-CA-CB	-5.11	102.60	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	209	ALA	N-CA-C	5.11	117.27	110.53
1	iX	175	GLU	O-C-N	-5.11	116.57	122.09
1	j1	42	ALA	CA-C-N	5.11	129.37	120.68
1	j1	42	ALA	C-N-CA	5.11	129.37	120.68
1	1T	110	THR	CA-C-O	5.11	127.84	121.81
1	jt	140	LYS	CA-C-N	5.11	127.00	120.56
1	jt	140	LYS	C-N-CA	5.11	127.00	120.56
1	jB	204	ALA	CA-C-N	5.11	128.08	120.31
1	jB	204	ALA	C-N-CA	5.11	128.08	120.31
1	1X	166	ASP	O-C-N	-5.11	116.81	122.07
1	1Y	73	ILE	N-CA-CB	5.11	116.86	110.47
1	k3	79	GLU	CA-C-N	5.11	127.64	120.28
1	k3	79	GLU	C-N-CA	5.11	127.64	120.28
1	kj	226	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	kp	136	LEU	O-C-N	-5.11	116.70	122.12
1	kH	186	THR	O-C-N	-5.11	115.48	122.33
1	kP	152	ASP	N-CA-C	-5.11	106.80	112.57
1	kT	87	HIS	O-C-N	-5.11	116.61	122.95
1	ld	108	THR	N-CA-C	5.11	116.93	111.36
1	lk	203	LYS	CA-C-O	5.11	125.84	119.97
1	lm	220	GLY	N-CA-C	5.11	117.95	112.33
1	lB	58	THR	OG1-CB-CG2	-5.11	99.08	109.30
1	lK	132	ARG	N-CA-C	5.11	116.85	111.28
1	2r	37	ILE	CA-C-N	5.11	124.61	119.19
1	2r	37	ILE	C-N-CA	5.11	124.61	119.19
1	2x	154	ARG	N-CA-C	-5.11	101.07	109.40
1	2P	70	LYS	CA-C-N	5.11	127.13	120.28
1	2P	70	LYS	C-N-CA	5.11	127.13	120.28
1	3i	120	HIS	CB-CG-ND1	-5.11	115.04	122.70
1	3E	28	GLU	CA-C-N	5.11	129.32	120.58
1	3E	28	GLU	C-N-CA	5.11	129.32	120.58
1	3O	107	THR	N-CA-C	-5.11	106.73	113.12
1	3T	200	THR	N-CA-CB	5.11	117.72	110.06
1	41	35	GLU	N-CA-CB	-5.11	101.91	110.39
1	48	216	THR	N-CA-C	5.11	116.54	111.07
1	4u	20	LEU	N-CA-C	-5.11	105.79	111.36
1	4N	49	PRO	N-CA-CB	5.11	108.61	103.25
1	4S	197	ASP	CA-C-N	5.11	129.37	120.68
1	4S	197	ASP	C-N-CA	5.11	129.37	120.68
1	5f	74	ASN	CA-CB-CG	-5.11	107.49	112.60
1	5o	76	GLU	N-CA-C	5.11	116.85	111.28
1	5r	96	MET	CG-SD-CE	-5.11	89.66	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	196	PRO	N-CA-CB	-5.11	97.89	103.25
1	5M	168	PHE	N-CA-C	5.11	116.54	111.07
1	5N	16	SER	O-C-N	-5.11	117.19	121.38
1	5Y	95	GLN	O-C-N	-5.11	116.51	123.10
1	6b	62	HIS	CA-CB-CG	5.11	118.91	113.80
1	6i	118	MET	N-CA-C	-5.11	106.56	112.89
1	6N	226	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	6U	193	ASN	OD1-CG-ND2	-5.11	117.49	122.60
1	7a	99	PRO	CA-C-N	5.11	132.38	121.45
1	7a	99	PRO	C-N-CA	5.11	132.38	121.45
1	7h	14	ALA	N-CA-C	5.11	118.27	110.20
1	7A	67	GLN	OE1-CD-NE2	5.11	127.71	122.60
1	7C	54	THR	O-C-N	-5.11	115.99	122.27
1	8g	208	ALA	N-CA-CB	5.11	118.26	110.44
1	8v	131	LYS	N-CA-CB	-5.11	102.61	110.12
1	8y	148	THR	CA-CB-CG2	5.11	119.19	110.50
1	8G	82	ARG	CA-C-O	5.11	124.52	118.90
1	8P	183	ASN	CA-C-O	-5.11	115.46	120.82
1	8U	168	PHE	N-CA-CB	-5.11	102.60	110.01
1	97	7	GLN	CA-C-N	5.11	131.42	121.41
1	97	7	GLN	C-N-CA	5.11	131.42	121.41
1	9e	187	GLU	CA-C-N	5.11	131.30	121.54
1	9e	187	GLU	C-N-CA	5.11	131.30	121.54
1	9t	52	LEU	O-C-N	-5.11	116.33	122.15
1	9E	223	GLY	CA-C-N	5.11	124.42	118.85
1	9E	223	GLY	C-N-CA	5.11	124.42	118.85
1	9G	40	PHE	O-C-N	5.11	127.40	122.09
1	9W	228	ALA	CA-C-N	5.11	130.27	120.97
1	9W	228	ALA	C-N-CA	5.11	130.27	120.97
1	9Y	182	LYS	N-CA-CB	5.11	117.63	110.12
1	a5	21	ASN	OD1-CG-ND2	-5.11	117.49	122.60
1	ah	15	ILE	O-C-N	-5.11	117.46	122.67
1	ap	226	HIS	CA-C-N	5.11	130.25	121.87
1	ap	226	HIS	C-N-CA	5.11	130.25	121.87
1	aq	62	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	aL	143	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	aQ	120	HIS	ND1-CE1-NE2	5.11	113.51	108.40
1	aU	10	MET	CG-SD-CE	-5.11	89.66	100.90
1	b3	117	TRP	CD2-CE2-CZ2	-5.11	117.29	122.40
1	b9	198	CYS	N-CA-CB	5.11	117.42	110.01
1	bn	134	ILE	O-C-N	-5.11	116.90	121.91
1	bz	147	PRO	O-C-N	5.11	129.54	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bK	42	ALA	N-CA-CB	5.11	117.42	110.01
1	bU	164	TYR	N-CA-C	5.11	116.54	110.97
1	bX	16	SER	CA-C-O	-5.11	114.73	120.25
1	c0	229	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	cg	5	ASN	CA-C-O	5.11	125.26	119.18
1	co	167	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	cu	100	ARG	NE-CZ-NH2	-5.11	114.60	119.20
1	df	55	MET	CA-C-N	5.11	127.13	120.28
1	df	55	MET	C-N-CA	5.11	127.13	120.28
1	dj	7	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	do	171	THR	N-CA-CB	5.11	117.55	109.94
1	ds	206	GLY	O-C-N	-5.11	116.66	121.77
1	dL	120	HIS	O-C-N	-5.11	116.28	122.82
1	dY	166	ASP	CA-C-O	5.11	125.97	120.55
1	eg	84	HIS	CG-CD2-NE2	5.11	112.31	107.20
1	fk	28	GLU	CB-CG-CD	5.11	121.28	112.60
1	fr	142	VAL	CA-C-N	5.11	127.13	120.28
1	fr	142	VAL	C-N-CA	5.11	127.13	120.28
1	fy	112	GLN	CA-C-N	5.11	127.12	120.28
1	fy	112	GLN	C-N-CA	5.11	127.12	120.28
1	fz	23	TRP	CA-CB-CG	5.11	123.31	113.60
1	fz	164	TYR	O-C-N	-5.11	116.81	122.07
1	1y	159	GLU	CA-C-N	5.11	126.23	119.84
1	1y	159	GLU	C-N-CA	5.11	126.23	119.84
1	fI	108	THR	O-C-N	-5.11	116.17	122.25
1	fL	69	LEU	CA-C-O	5.11	125.97	120.55
1	fN	71	GLU	N-CA-CB	5.11	117.63	110.12
1	g4	148	THR	N-CA-CB	5.11	122.75	111.87
1	g6	79	GLU	N-CA-C	5.11	116.85	111.28
1	c	18	ARG	CB-CA-C	5.11	118.90	110.88
1	h	23	TRP	CB-CG-CD2	5.11	133.95	126.80
1	n	54	THR	N-CA-C	-5.11	105.89	111.82
1	gm	96	MET	O-C-N	-5.11	117.06	123.04
1	gu	213	GLU	O-C-N	-5.11	116.33	122.15
1	1E	183	ASN	O-C-N	-5.11	116.71	122.12
1	gE	194	ALA	N-CA-C	5.11	117.12	110.43
1	gJ	158	LYS	N-CA-CB	-5.11	103.19	110.80
1	gU	175	GLU	O-C-N	-5.11	116.74	122.97
1	gX	143	ARG	N-CA-C	5.11	116.54	110.97
1	gY	75	GLU	O-C-N	-5.11	116.33	122.15
1	hb	45	GLU	CA-C-N	5.11	130.91	120.80
1	hb	45	GLU	C-N-CA	5.11	130.91	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hp	25	LYS	CA-C-O	-5.11	115.44	120.90
1	hu	191	VAL	N-CA-CB	-5.11	102.92	110.58
1	hz	205	LEU	O-C-N	-5.11	115.99	122.27
1	hI	23	TRP	CA-CB-CG	5.11	123.30	113.60
1	hK	73	ILE	CA-C-N	5.11	127.54	120.29
1	hK	73	ILE	C-N-CA	5.11	127.54	120.29
1	hT	17	PRO	CB-CA-C	5.11	119.99	111.56
1	ib	92	GLU	CA-C-N	5.11	125.10	119.89
1	ib	92	GLU	C-N-CA	5.11	125.10	119.89
1	ii	197	ASP	CA-C-O	-5.11	115.44	120.70
1	ij	178	SER	O-C-N	-5.11	116.28	122.82
1	io	99	PRO	CA-C-N	5.11	132.03	122.74
1	io	99	PRO	C-N-CA	5.11	132.03	122.74
1	iw	43	LEU	CA-C-O	5.11	125.66	119.38
1	iF	167	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	iJ	62	HIS	CA-CB-CG	-5.11	108.69	113.80
1	iJ	115	ILE	N-CA-C	5.11	115.83	110.62
1	iL	116	GLY	O-C-N	5.11	127.19	122.13
1	iO	70	LYS	N-CA-C	5.11	116.85	111.28
1	j1	54	THR	N-CA-C	5.11	117.51	111.33
1	j2	173	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	j9	34	PRO	N-CD-CG	5.11	110.86	103.20
1	jb	16	SER	CA-C-N	5.11	124.42	118.85
1	jb	16	SER	C-N-CA	5.11	124.42	118.85
1	jd	6	LEU	CA-C-O	5.11	124.52	118.90
1	jr	23	TRP	CA-C-O	5.11	126.69	121.07
1	jt	16	SER	N-CA-C	5.11	117.01	109.50
1	ju	105	ALA	CA-C-N	5.11	131.84	121.93
1	ju	105	ALA	C-N-CA	5.11	131.84	121.93
1	jv	141	ILE	O-C-N	-5.11	116.92	121.87
1	1X	116	GLY	CA-C-O	-5.11	114.68	120.30
1	jN	96	MET	CA-C-N	5.11	127.96	120.71
1	jN	96	MET	C-N-CA	5.11	127.96	120.71
1	jT	171	THR	CA-CB-OG1	5.11	117.26	109.60
1	jU	55	MET	N-CA-C	5.11	116.85	111.28
1	20	14	ALA	N-CA-C	5.11	117.84	110.28
1	kd	146	SER	O-C-N	-5.11	116.65	121.35
1	ke	219	GLN	O-C-N	-5.11	115.83	122.37
1	kg	135	ILE	CB-CA-C	5.11	118.51	111.97
1	km	108	THR	CA-C-N	5.11	131.16	122.37
1	km	108	THR	C-N-CA	5.11	131.16	122.37
1	kn	26	VAL	CA-CB-CG1	5.11	119.08	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ko	108	THR	CA-C-N	5.11	128.46	120.75
1	ko	108	THR	C-N-CA	5.11	128.46	120.75
1	kw	212	GLU	O-C-N	-5.11	116.71	122.12
1	kB	3	VAL	CA-C-N	5.11	128.96	120.94
1	kB	3	VAL	C-N-CA	5.11	128.96	120.94
1	kE	121	ASN	CA-CB-CG	-5.11	107.49	112.60
1	kF	58	THR	CA-C-O	-5.11	115.44	120.90
1	kW	26	VAL	CA-C-N	5.11	127.00	120.56
1	kW	26	VAL	C-N-CA	5.11	127.00	120.56
1	25	103	ASP	O-C-N	-5.11	116.81	122.07
1	l2	88	ALA	CA-C-O	5.11	126.81	121.19
1	l2	167	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	l4	115	ILE	CA-C-N	5.11	125.61	119.94
1	l4	115	ILE	C-N-CA	5.11	125.61	119.94
1	l6	115	ILE	O-C-N	-5.11	116.92	121.87
1	lf	192	GLN	N-CA-C	5.11	116.85	111.28
1	lm	100	ARG	CA-C-N	5.11	125.62	120.00
1	lm	100	ARG	C-N-CA	5.11	125.62	120.00
1	lA	81	ASP	N-CA-C	5.11	116.85	111.28
1	lC	84	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	lM	15	ILE	N-CA-C	5.11	116.99	109.63
1	lP	49	PRO	N-CA-CB	5.11	109.08	103.26
1	lP	229	ARG	NE-CZ-NH2	5.11	123.80	119.20
1	2b	133	TRP	CD2-CE2-CZ2	-5.11	117.29	122.40
1	2j	85	PRO	CA-C-N	5.11	127.46	120.46
1	2j	85	PRO	C-N-CA	5.11	127.46	120.46
1	2K	78	ALA	CA-C-O	5.11	126.15	120.63
1	2P	64	ALA	CA-C-N	5.11	127.08	120.44
1	2P	64	ALA	C-N-CA	5.11	127.08	120.44
1	2P	199	LYS	CB-CA-C	5.11	119.27	110.79
1	2S	106	GLY	CA-C-O	5.11	125.95	119.72
1	2X	150	ILE	CA-C-N	5.11	127.12	120.28
1	2X	150	ILE	C-N-CA	5.11	127.12	120.28
1	2Y	143	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	35	4	GLN	O-C-N	-5.11	117.30	123.27
1	3b	197	ASP	CA-CB-CG	5.11	117.71	112.60
1	3d	133	TRP	CA-C-O	-5.11	115.00	120.42
1	3k	75	GLU	CA-C-N	5.11	127.12	120.28
1	3k	75	GLU	C-N-CA	5.11	127.12	120.28
1	3q	23	TRP	CB-CA-C	5.11	119.53	110.85
1	3q	117	TRP	N-CA-C	5.11	116.53	111.07
1	3w	227	LYS	CB-CA-C	-5.11	101.51	109.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3x	194	ALA	CA-C-N	5.11	127.74	120.49
1	3x	194	ALA	C-N-CA	5.11	127.74	120.49
1	3F	139	ASN	CA-C-N	5.11	127.39	120.44
1	3F	139	ASN	C-N-CA	5.11	127.39	120.44
1	3H	202	LEU	O-C-N	5.11	127.33	122.07
1	3U	131	LYS	CA-C-N	5.11	127.38	120.38
1	3U	131	LYS	C-N-CA	5.11	127.38	120.38
1	3X	166	ASP	CA-C-N	5.11	127.12	120.28
1	3X	166	ASP	C-N-CA	5.11	127.12	120.28
1	3Y	131	LYS	O-C-N	-5.11	116.78	122.09
1	41	27	VAL	O-C-N	-5.11	116.03	121.80
1	4k	9	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	4p	53	ASN	N-CA-C	5.11	116.85	111.28
1	4v	122	PRO	CA-C-N	5.11	124.87	119.76
1	4v	122	PRO	C-N-CA	5.11	124.87	119.76
1	4w	180	GLU	N-CA-CB	-5.11	102.61	110.12
1	59	10	MET	N-CA-C	5.11	118.67	111.52
1	5i	222	GLY	O-C-N	-5.11	117.28	122.70
1	5l	118	MET	CA-C-O	-5.11	115.14	120.55
1	5y	97	ARG	CA-C-O	-5.11	115.60	121.47
1	5A	7	GLN	N-CA-C	5.11	117.71	110.10
1	5L	219	GLN	N-CA-C	5.11	116.80	108.63
1	5N	49	PRO	CB-CA-C	5.11	119.99	111.56
1	5P	192	GLN	CB-CG-CD	5.11	121.28	112.60
1	5R	163	ASP	CA-C-O	5.11	125.97	120.55
1	5S	144	MET	O-C-N	-5.11	116.33	122.15
1	5T	208	ALA	CA-C-O	5.11	125.99	120.12
1	6e	228	ALA	O-C-N	-5.11	116.97	122.79
1	6B	71	GLU	CA-C-O	5.11	125.96	120.55
1	6H	120	HIS	CA-C-O	5.11	127.81	120.51
1	6I	92	GLU	CB-CG-CD	5.11	121.28	112.60
1	6N	132	ARG	N-CA-C	5.11	116.85	111.28
1	7d	185	MET	CG-SD-CE	5.11	112.14	100.90
1	7l	216	THR	CA-C-N	5.11	128.46	120.75
1	7l	216	THR	C-N-CA	5.11	128.46	120.75
1	7n	48	THR	CA-C-O	-5.11	115.25	120.87
1	7t	41	SER	O-C-N	-5.11	116.71	122.12
1	7t	48	THR	N-CA-CB	5.11	116.93	110.04
1	7x	165	VAL	N-CA-C	5.11	115.88	110.72
1	7y	27	VAL	N-CA-CB	-5.11	103.59	110.54
1	7C	104	ILE	CA-C-N	5.11	127.63	120.28
1	7C	104	ILE	C-N-CA	5.11	127.63	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7U	82	ARG	CA-C-N	5.11	127.39	120.44
1	7U	82	ARG	C-N-CA	5.11	127.39	120.44
1	7V	199	LYS	O-C-N	-5.11	115.59	122.43
1	7X	12	HIS	CA-CB-CG	5.11	118.91	113.80
1	82	22	ALA	CB-CA-C	-5.11	102.64	110.81
1	87	130	TYR	CB-CG-CD2	-5.11	113.14	120.80
1	8c	179	GLN	CA-C-N	5.11	127.12	120.28
1	8c	179	GLN	C-N-CA	5.11	127.12	120.28
1	8e	72	THR	N-CA-CB	5.11	117.41	110.01
1	8h	89	GLY	O-C-N	-5.11	116.66	121.77
1	8k	175	GLU	N-CA-C	-5.11	101.38	109.96
1	8p	138	LEU	N-CA-C	5.11	116.54	111.07
1	8r	152	ASP	O-C-N	-5.11	114.97	122.43
1	8t	112	GLN	CG-CD-NE2	5.11	124.06	116.40
1	8w	31	ALA	N-CA-C	5.11	116.08	108.31
1	8G	91	ILE	CA-C-O	-5.11	115.93	121.19
1	8J	18	ARG	CA-C-O	-5.11	115.14	120.55
1	8J	42	ALA	CB-CA-C	-5.11	102.17	110.85
1	8U	87	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	93	95	GLN	CA-C-O	-5.11	115.39	121.16
1	99	142	VAL	N-CA-CB	5.11	118.24	110.58
1	9f	190	LEU	CA-C-N	5.11	127.67	120.42
1	9f	190	LEU	C-N-CA	5.11	127.67	120.42
1	9g	165	VAL	CA-C-N	5.11	127.39	120.65
1	9g	165	VAL	C-N-CA	5.11	127.39	120.65
1	9k	228	ALA	N-CA-CB	-5.11	102.61	110.12
1	9H	194	ALA	CA-C-N	5.11	127.49	120.39
1	9H	194	ALA	C-N-CA	5.11	127.49	120.39
1	9S	111	LEU	N-CA-C	5.11	117.51	111.33
1	ab	121	ASN	CA-C-O	-5.11	115.55	119.99
1	ac	3	VAL	CA-C-O	5.11	125.89	120.48
1	ai	29	GLU	CA-C-N	5.11	130.95	122.73
1	ai	29	GLU	C-N-CA	5.11	130.95	122.73
1	11	103	ASP	CA-C-N	5.11	127.46	120.46
1	11	103	ASP	C-N-CA	5.11	127.46	120.46
1	ap	155	GLN	CA-C-N	5.11	127.90	121.36
1	ap	155	GLN	C-N-CA	5.11	127.90	121.36
1	ax	58	THR	OG1-CB-CG2	-5.11	99.08	109.30
1	ax	154	ARG	CG-CD-NE	-5.11	100.76	112.00
1	aA	164	TYR	CA-C-N	5.11	127.10	120.56
1	aA	164	TYR	C-N-CA	5.11	127.10	120.56
1	aB	134	ILE	CB-CA-C	5.11	118.42	111.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	13	91	ILE	N-CA-C	-5.11	107.36	111.91
1	aK	39	MET	CG-SD-CE	-5.11	89.66	100.90
1	aR	35	GLU	O-C-N	-5.11	115.41	122.46
1	aT	128	GLU	CA-C-N	5.11	127.00	120.56
1	aT	128	GLU	C-N-CA	5.11	127.00	120.56
1	b8	62	HIS	ND1-CG-CD2	5.11	111.21	106.10
1	ba	84	HIS	CG-CD2-NE2	5.11	112.31	107.20
1	bc	48	THR	O-C-N	-5.11	115.03	121.21
1	bc	214	MET	N-CA-C	5.11	116.85	111.28
1	bi	58	THR	CA-C-N	5.11	128.23	120.77
1	bi	58	THR	C-N-CA	5.11	128.23	120.77
1	bn	184	TRP	CB-CA-C	5.11	118.90	110.88
1	bs	54	THR	CA-CB-OG1	-5.11	101.94	109.60
1	bu	62	HIS	CB-CG-ND1	-5.11	115.04	122.70
1	bE	180	GLU	O-C-N	-5.11	116.71	122.12
1	bV	22	ALA	CA-C-N	5.11	127.44	120.54
1	bV	22	ALA	C-N-CA	5.11	127.44	120.54
1	bW	21	ASN	N-CA-C	5.11	118.77	112.54
1	bX	202	LEU	CA-C-O	5.11	125.97	120.55
1	c0	105	ALA	N-CA-CB	-5.11	101.83	110.41
1	c2	38	PRO	N-CA-CB	5.11	108.93	103.52
1	c4	133	TRP	CB-CG-CD1	-5.11	119.24	126.90
1	cb	170	LYS	CB-CA-C	5.11	119.27	110.79
1	cq	173	ARG	N-CA-C	5.11	117.24	111.11
1	cq	192	GLN	N-CA-C	5.11	118.77	112.54
1	cz	75	GLU	CA-C-O	5.11	125.96	120.55
1	cB	17	PRO	N-CA-CB	5.11	108.95	103.33
1	cE	183	ASN	CA-CB-CG	5.11	117.71	112.60
1	cG	112	GLN	CA-C-O	-5.11	114.33	120.10
1	cH	197	ASP	CA-C-N	5.11	127.08	120.44
1	cH	197	ASP	C-N-CA	5.11	127.08	120.44
1	cJ	67	GLN	O-C-N	-5.11	116.81	122.07
1	cL	111	LEU	O-C-N	-5.11	116.78	122.09
1	cW	31	ALA	N-CA-CB	-5.11	101.86	110.49
1	d2	132	ARG	CA-C-O	-5.11	115.01	120.42
1	db	98	GLU	CA-C-N	5.11	125.02	119.76
1	db	98	GLU	C-N-CA	5.11	125.02	119.76
1	1j	109	SER	CA-C-O	5.11	125.95	120.38
1	dr	130	TYR	N-CA-C	5.11	116.53	111.07
1	dP	152	ASP	N-CA-CB	-5.11	102.36	110.28
1	dR	18	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	1n	161	PHE	CB-CG-CD1	5.11	129.38	120.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	47	ALA	N-CA-C	5.11	117.30	110.35
1	1p	16	SER	CA-C-N	5.11	125.39	119.47
1	1p	16	SER	C-N-CA	5.11	125.39	119.47
1	ee	81	ASP	CA-C-N	5.11	128.48	120.82
1	ee	81	ASP	C-N-CA	5.11	128.48	120.82
1	em	206	GLY	O-C-N	-5.11	116.66	121.77
1	ez	170	LYS	CB-CG-CD	5.11	123.05	111.30
1	eA	223	GLY	CA-C-O	-5.11	116.26	121.62
1	eF	132	ARG	CB-CG-CD	5.11	123.05	111.30
1	1s	143	ARG	CA-C-O	5.11	126.18	120.82
1	eM	15	ILE	CA-CB-CG1	5.11	119.08	110.40
1	eS	18	ARG	N-CA-C	5.11	117.58	111.71
1	f9	185	MET	CG-SD-CE	-5.11	89.66	100.90
1	f9	217	ALA	O-C-N	-5.11	117.26	123.03
1	fa	100	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	fi	172	LEU	CA-C-N	5.11	127.44	120.54
1	fi	172	LEU	C-N-CA	5.11	127.44	120.54
1	fB	2	ILE	O-C-N	-5.11	117.22	122.63
1	fI	206	GLY	O-C-N	-5.11	116.66	121.77
1	1z	2	ILE	CA-C-O	-5.11	115.11	120.57
1	fV	202	LEU	N-CA-C	5.11	116.85	111.28
1	g0	226	HIS	CA-C-N	5.11	128.02	120.82
1	g0	226	HIS	C-N-CA	5.11	128.02	120.82
1	g1	163	ASP	CA-C-O	5.11	125.96	120.55
1	g2	219	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	g3	185	MET	N-CA-CB	5.11	117.72	110.16
1	c	154	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	k	210	THR	N-CA-CB	5.11	118.05	110.29
1	t	20	LEU	CB-CA-C	-5.11	102.17	110.85
1	y	178	SER	CA-C-N	5.11	127.64	120.28
1	y	178	SER	C-N-CA	5.11	127.64	120.28
1	gd	132	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	gh	194	ALA	N-CA-C	5.11	117.29	110.35
1	gl	34	PRO	CA-C-N	5.11	127.63	120.28
1	gl	34	PRO	C-N-CA	5.11	127.63	120.28
1	gl	84	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	gq	4	GLN	O-C-N	-5.11	116.90	122.67
1	gE	22	ALA	O-C-N	5.11	127.53	122.12
1	gI	62	HIS	CB-CG-ND1	-5.11	115.04	122.70
1	gR	168	PHE	CA-C-N	5.11	127.12	120.28
1	gR	168	PHE	C-N-CA	5.11	127.12	120.28
1	hd	212	GLU	CA-C-N	5.11	127.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hd	212	GLU	C-N-CA	5.11	127.08	120.44
1	1I	149	SER	N-CA-C	5.11	117.71	110.10
1	hr	168	PHE	CG-CD1-CE1	-5.11	112.02	120.70
1	hu	3	VAL	O-C-N	-5.11	117.37	122.12
1	hx	134	ILE	CA-C-N	5.11	127.45	120.46
1	hx	134	ILE	C-N-CA	5.11	127.45	120.46
1	hx	162	ARG	N-CA-C	5.11	116.84	111.28
1	hA	33	SER	CA-C-O	-5.11	114.70	119.91
1	hB	142	VAL	N-CA-C	5.11	115.83	110.62
1	hE	49	PRO	O-C-N	-5.11	115.75	122.64
1	hJ	13	GLN	N-CA-CB	5.11	119.71	110.83
1	hJ	166	ASP	CA-CB-CG	5.11	117.70	112.60
1	hL	24	VAL	N-CA-C	5.11	115.83	110.62
1	hP	43	LEU	CA-C-O	-5.11	114.33	120.10
1	hQ	226	HIS	CA-CB-CG	-5.11	108.69	113.80
1	hS	219	GLN	CB-CA-C	5.11	119.92	109.76
1	hW	229	ARG	CA-C-N	5.11	127.34	120.50
1	hW	229	ARG	C-N-CA	5.11	127.34	120.50
1	ii	7	GLN	O-C-N	-5.11	115.80	122.59
1	ik	80	TRP	CE3-CZ3-CH2	-5.11	114.46	121.10
1	iy	18	ARG	CA-C-N	5.11	127.37	120.38
1	iy	18	ARG	C-N-CA	5.11	127.37	120.38
1	iF	71	GLU	CA-C-O	-5.11	115.14	120.55
1	iG	81	ASP	CA-CB-CG	-5.11	107.49	112.60
1	iM	217	ALA	CA-C-N	5.11	129.39	122.19
1	iM	217	ALA	C-N-CA	5.11	129.39	122.19
1	iO	135	ILE	N-CA-C	-5.11	104.60	111.44
1	iO	191	VAL	N-CA-C	5.11	119.24	111.89
1	iW	214	MET	CG-SD-CE	-5.11	89.67	100.90
1	j9	12	HIS	CA-C-O	5.11	126.15	120.43
1	j9	155	GLN	CG-CD-NE2	-5.11	108.74	116.40
1	ja	176	GLN	CA-C-N	5.11	132.04	121.32
1	ja	176	GLN	C-N-CA	5.11	132.04	121.32
1	jb	4	GLN	CB-CG-CD	5.11	121.28	112.60
1	jf	177	ALA	CA-C-N	5.11	127.96	120.71
1	jf	177	ALA	C-N-CA	5.11	127.96	120.71
1	jh	139	ASN	CA-C-O	5.11	125.96	120.55
1	ji	63	GLN	N-CA-C	5.11	118.66	112.23
1	js	208	ALA	CA-C-N	5.11	131.29	121.54
1	js	208	ALA	C-N-CA	5.11	131.29	121.54
1	js	211	LEU	CB-CA-C	5.11	118.89	110.88
1	jy	161	PHE	N-CA-C	5.11	117.74	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jG	116	GLY	N-CA-C	5.11	118.82	112.64
1	jI	166	ASP	N-CA-CB	-5.11	102.62	110.12
1	jJ	226	HIS	CB-CG-CD2	-5.11	124.56	131.20
1	jK	176	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	1Y	225	GLY	CA-C-N	5.11	129.44	122.34
1	1Y	225	GLY	C-N-CA	5.11	129.44	122.34
1	jW	106	GLY	CA-C-N	5.11	127.08	120.44
1	jW	106	GLY	C-N-CA	5.11	127.08	120.44
1	k8	161	PHE	CA-CB-CG	-5.11	108.69	113.80
1	ke	98	GLU	CA-C-N	5.11	125.26	119.90
1	ke	98	GLU	C-N-CA	5.11	125.26	119.90
1	kh	226	HIS	CG-CD2-NE2	5.11	112.31	107.20
1	kj	90	PRO	CA-C-N	5.11	127.53	120.49
1	kj	90	PRO	C-N-CA	5.11	127.53	120.49
1	21	86	VAL	CA-CB-CG1	5.11	119.08	110.40
1	kt	25	LYS	CA-C-N	5.11	126.99	120.56
1	kt	25	LYS	C-N-CA	5.11	126.99	120.56
1	22	107	THR	N-CA-C	-5.11	107.12	113.55
1	kD	9	GLN	OE1-CD-NE2	5.11	127.70	122.60
1	24	200	THR	N-CA-CB	5.11	117.55	109.94
1	kR	63	GLN	OE1-CD-NE2	5.11	127.71	122.60
1	kT	50	GLN	OE1-CD-NE2	-5.11	117.49	122.60
1	l1	187	GLU	O-C-N	-5.11	115.16	122.41
1	26	15	ILE	N-CA-C	5.11	116.98	109.63
1	l8	30	LYS	N-CA-CB	5.11	119.12	110.49
1	l9	185	MET	CA-CB-CG	5.11	124.31	114.10
1	lg	86	VAL	N-CA-C	5.11	119.96	109.34
1	lp	28	GLU	CA-C-N	5.11	129.31	120.58
1	lp	28	GLU	C-N-CA	5.11	129.31	120.58
1	29	174	ALA	N-CA-C	-5.11	106.74	113.17
1	lE	73	ILE	CA-C-N	5.11	127.08	120.44
1	lE	73	ILE	C-N-CA	5.11	127.08	120.44
1	lF	126	VAL	CA-C-O	5.11	126.03	120.57
1	lM	12	HIS	CB-CG-ND1	5.11	130.36	122.70
1	2e	165	VAL	O-C-N	-5.11	116.92	121.87
1	2f	129	ILE	CA-C-N	5.11	127.12	120.28
1	2f	129	ILE	C-N-CA	5.11	127.12	120.28
1	2l	57	ASN	N-CA-CB	-5.11	102.44	110.46
1	2p	48	THR	CA-CB-CG2	-5.11	101.82	110.50
1	2p	130	TYR	CB-CG-CD2	-5.11	113.14	120.80
1	2r	208	ALA	N-CA-C	5.11	118.77	112.54
1	2t	103	ASP	CA-CB-CG	-5.11	107.50	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2R	181	VAL	N-CA-C	5.11	115.83	110.62
1	2S	52	LEU	N-CA-CB	5.11	117.72	110.16
1	33	178	SER	CA-C-N	5.11	127.12	120.28
1	33	178	SER	C-N-CA	5.11	127.12	120.28
1	36	189	LEU	CA-C-N	5.11	127.43	120.54
1	36	189	LEU	C-N-CA	5.11	127.43	120.54
1	37	20	LEU	N-CA-C	5.11	117.51	111.33
1	38	219	GLN	CA-C-O	-5.11	114.66	120.58
1	39	191	VAL	CA-C-N	5.11	127.12	120.28
1	39	191	VAL	C-N-CA	5.11	127.12	120.28
1	3b	229	ARG	CB-CG-CD	5.11	123.04	111.30
1	3c	63	GLN	O-C-N	-5.11	115.99	122.27
1	3c	226	HIS	N-CA-C	5.11	117.84	110.28
1	3v	163	ASP	CA-CB-CG	-5.11	107.49	112.60
1	3B	158	LYS	N-CA-CB	5.11	118.32	110.61
1	3E	1	PRO	CA-C-N	5.11	129.52	123.19
1	3E	1	PRO	C-N-CA	5.11	129.52	123.19
1	3I	218	CYS	CA-C-N	-5.11	116.20	122.84
1	3I	218	CYS	C-N-CA	-5.11	116.20	122.84
1	3O	23	TRP	CA-C-O	5.11	125.96	120.70
1	3O	62	HIS	ND1-CG-CD2	5.11	111.20	106.10
1	3P	71	GLU	CA-C-O	5.11	125.96	120.55
1	49	99	PRO	CA-N-CD	5.11	119.15	112.00
1	4m	11	VAL	CA-C-N	5.11	132.33	122.07
1	4m	11	VAL	C-N-CA	5.11	132.33	122.07
1	4n	68	MET	O-C-N	-5.11	116.71	122.12
1	4n	156	GLY	CA-C-O	-5.11	114.22	121.52
1	4o	156	GLY	CA-C-N	5.11	126.22	119.84
1	4o	156	GLY	C-N-CA	5.11	126.22	119.84
1	4p	229	ARG	CB-CA-C	-5.11	101.56	110.09
1	4t	68	MET	N-CA-CB	-5.11	102.60	110.16
1	4x	184	TRP	CG-CD2-CE3	-5.11	128.79	133.90
1	4G	168	PHE	O-C-N	-5.11	116.72	122.03
1	4T	14	ALA	N-CA-C	5.11	117.29	110.35
1	59	96	MET	CG-SD-CE	-5.11	89.67	100.90
1	5j	158	LYS	CA-C-N	5.11	127.51	120.67
1	5j	158	LYS	C-N-CA	5.11	127.51	120.67
1	5x	230	VAL	CA-C-O	5.11	126.77	120.74
1	5y	4	GLN	N-CA-C	5.11	117.27	110.53
1	5z	143	ARG	N-CA-C	5.11	116.92	111.36
1	5F	163	ASP	N-CA-C	5.11	116.84	111.28
1	5R	94	GLY	CA-C-O	5.11	124.68	119.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5Z	87	HIS	CB-CG-ND1	5.11	130.36	122.70
1	62	29	GLU	CA-CB-CG	5.11	124.31	114.10
1	6a	61	GLY	CA-C-O	-5.11	117.17	122.28
1	6N	107	THR	N-CA-CB	5.11	117.41	110.01
1	6S	2	ILE	N-CA-C	5.11	117.19	109.12
1	73	63	GLN	O-C-N	-5.11	116.71	122.12
1	77	105	ALA	N-CA-CB	-5.11	102.08	110.40
1	7c	73	ILE	CA-C-N	5.11	127.12	120.28
1	7c	73	ILE	C-N-CA	5.11	127.12	120.28
1	7c	156	GLY	O-C-N	-5.11	116.21	122.03
1	7u	195	ASN	CA-C-N	5.11	124.77	119.56
1	7u	195	ASN	C-N-CA	5.11	124.77	119.56
1	7G	16	SER	CA-C-N	5.11	126.22	119.84
1	7G	16	SER	C-N-CA	5.11	126.22	119.84
1	7I	161	PHE	CA-C-N	5.11	127.12	120.28
1	7I	161	PHE	C-N-CA	5.11	127.12	120.28
1	7J	39	MET	CA-C-N	5.11	127.08	120.44
1	7J	39	MET	C-N-CA	5.11	127.08	120.44
1	7R	200	THR	CB-CA-C	5.11	119.27	110.79
1	7W	52	LEU	CA-C-O	5.11	125.83	120.42
1	7X	192	GLN	OE1-CD-NE2	5.11	127.71	122.60
1	83	92	GLU	CA-C-O	-5.11	113.63	118.33
1	84	110	THR	CB-CA-C	-5.11	99.60	109.76
1	85	151	LEU	CA-C-O	5.11	125.96	120.70
1	8a	97	ARG	NH1-CZ-NH2	-5.11	112.66	119.30
1	8f	57	ASN	CA-C-N	5.11	127.12	120.28
1	8f	57	ASN	C-N-CA	5.11	127.12	120.28
1	8l	40	PHE	CA-CB-CG	-5.11	108.69	113.80
1	8v	6	LEU	N-CA-C	5.11	117.50	110.35
1	8v	85	PRO	O-C-N	-5.11	116.78	123.06
1	8v	121	ASN	CB-CG-OD1	5.11	131.01	120.80
1	8y	61	GLY	N-CA-C	5.11	119.07	112.54
1	8y	197	ASP	CA-CB-CG	-5.11	107.50	112.60
1	8W	31	ALA	CA-C-N	-5.11	115.95	122.79
1	8W	31	ALA	C-N-CA	-5.11	115.95	122.79
1	96	194	ALA	N-CA-CB	-5.11	102.96	110.26
1	99	184	TRP	CZ3-CH2-CZ2	-5.11	114.86	121.50
1	9a	55	MET	N-CA-C	5.11	116.53	111.07
1	9c	225	GLY	O-C-N	-5.11	116.06	122.70
1	9g	3	VAL	N-CA-C	5.11	116.59	109.80
1	9k	167	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	9t	70	LYS	N-CA-CB	5.11	117.58	109.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9w	146	SER	O-C-N	-5.11	115.45	121.32
1	9z	64	ALA	CA-C-N	5.11	127.12	120.28
1	9z	64	ALA	C-N-CA	5.11	127.12	120.28
1	9E	62	HIS	ND1-CG-CD2	5.11	111.21	106.10
1	9G	1	PRO	N-CA-C	-5.11	99.34	112.10
1	9H	5	ASN	CA-CB-CG	-5.11	107.50	112.60
1	9K	52	LEU	CA-C-O	5.11	126.36	120.90
1	9P	167	ARG	NE-CZ-NH1	5.11	126.61	121.50
1	9Z	54	THR	CA-C-N	5.11	127.43	120.54
1	9Z	54	THR	C-N-CA	5.11	127.43	120.54
1	a5	133	TRP	CB-CG-CD2	5.11	133.95	126.80
1	ab	177	ALA	N-CA-CB	5.11	117.81	109.69
1	ag	4	GLN	OE1-CD-NE2	-5.11	117.50	122.60
1	ap	16	SER	N-CA-C	5.11	116.83	109.48
1	as	43	LEU	CA-C-O	5.11	125.66	119.38
1	au	66	MET	O-C-N	-5.11	116.71	122.12
1	aw	18	ARG	CA-C-N	5.11	127.08	120.44
1	aw	18	ARG	C-N-CA	5.11	127.08	120.44
1	aC	35	GLU	N-CA-C	5.11	118.98	112.34
1	aI	166	ASP	CA-C-O	5.11	126.18	120.82
1	aJ	116	GLY	N-CA-C	5.11	118.82	112.64
1	aP	57	ASN	CA-C-N	5.11	127.12	120.28
1	aP	57	ASN	C-N-CA	5.11	127.12	120.28
1	aV	87	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	aV	217	ALA	CA-C-O	5.11	126.81	121.19
1	aX	195	ASN	N-CA-C	5.11	121.09	109.81
1	aZ	88	ALA	O-C-N	-5.11	117.07	123.04
1	b0	197	ASP	CA-C-O	5.11	125.84	119.97
1	b2	203	LYS	O-C-N	-5.11	116.25	122.22
1	b5	12	HIS	O-C-N	-5.11	116.59	122.87
1	b9	230	VAL	O-C-N	-5.11	117.22	122.63
1	bm	63	GLN	CB-CA-C	5.11	120.47	110.67
1	bu	149	SER	CA-C-N	5.11	129.07	120.29
1	bu	149	SER	C-N-CA	5.11	129.07	120.29
1	19	167	ARG	N-CA-CB	5.11	118.19	110.28
1	bE	21	ASN	CB-CG-ND2	5.11	124.06	116.40
1	bH	166	ASP	CA-CB-CG	5.11	117.70	112.60
1	bI	33	SER	N-CA-C	-5.11	100.21	109.09
1	bJ	38	PRO	N-CA-C	-5.11	106.56	113.40
1	bN	112	GLN	CA-C-N	5.11	127.54	120.29
1	bN	112	GLN	C-N-CA	5.11	127.54	120.29
1	bV	10	MET	N-CA-C	5.11	117.71	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	80	TRP	CB-CG-CD2	5.11	133.95	126.80
1	bZ	84	HIS	CA-CB-CG	5.11	118.91	113.80
1	c3	83	LEU	CA-C-N	-5.11	117.33	122.74
1	c3	83	LEU	C-N-CA	-5.11	117.33	122.74
1	c7	18	ARG	CG-CD-NE	-5.11	100.77	112.00
1	ce	2	ILE	CA-C-N	5.11	130.11	123.06
1	ce	2	ILE	C-N-CA	5.11	130.11	123.06
1	ce	227	LYS	N-CA-CB	-5.11	104.14	111.70
1	cr	12	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	ct	85	PRO	N-CA-CB	5.11	108.61	103.25
1	1f	12	HIS	CE1-NE2-CD2	-5.11	103.89	109.00
1	cA	56	LEU	N-CA-C	5.11	116.92	111.36
1	d2	24	VAL	CA-C-N	5.11	127.08	120.44
1	d2	24	VAL	C-N-CA	5.11	127.08	120.44
1	d3	135	ILE	CA-C-O	5.11	125.98	120.47
1	d4	214	MET	N-CA-C	5.11	116.53	111.07
1	1j	39	MET	CA-C-N	5.11	127.12	120.28
1	1j	39	MET	C-N-CA	5.11	127.12	120.28
1	dt	45	GLU	CB-CG-CD	5.11	121.28	112.60
1	dy	125	PRO	N-CD-CG	5.11	110.86	103.20
1	dB	195	ASN	CB-CA-C	5.11	117.83	109.46
1	dC	37	ILE	CA-C-O	-5.11	115.27	118.69
1	dD	96	MET	CG-SD-CE	-5.11	89.67	100.90
1	dF	143	ARG	NE-CZ-NH1	-5.11	116.39	121.50
1	dK	42	ALA	CA-C-N	5.11	128.07	120.31
1	dK	42	ALA	C-N-CA	5.11	128.07	120.31
1	dN	111	LEU	CA-C-O	5.11	126.64	120.92
1	dP	13	GLN	CA-CB-CG	5.11	124.31	114.10
1	e9	187	GLU	CA-C-N	5.11	127.54	120.29
1	e9	187	GLU	C-N-CA	5.11	127.54	120.29
1	e9	195	ASN	CA-C-O	5.11	126.49	120.87
1	eb	86	VAL	CA-C-O	5.11	125.76	120.96
1	ee	42	ALA	CB-CA-C	-5.11	102.32	110.79
1	1q	56	LEU	CA-C-O	5.11	126.18	120.82
1	en	9	GLN	CB-CA-C	-5.11	100.03	109.37
1	en	156	GLY	CA-C-N	5.11	124.60	119.19
1	en	156	GLY	C-N-CA	5.11	124.60	119.19
1	en	167	ARG	CA-C-N	5.11	127.39	120.65
1	en	167	ARG	C-N-CA	5.11	127.39	120.65
1	er	54	THR	N-CA-CB	5.11	117.41	110.01
1	er	187	GLU	CA-C-O	-5.11	115.14	120.55
1	et	186	THR	N-CA-CB	5.11	117.62	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eE	112	GLN	CB-CA-C	5.11	119.27	110.79
1	eF	74	ASN	O-C-N	-5.11	116.25	122.22
1	eH	15	ILE	N-CA-CB	5.11	116.97	110.13
1	eJ	101	GLY	CA-C-O	-5.11	115.80	120.80
1	eL	123	PRO	CB-CA-C	-5.11	104.69	111.23
1	eP	183	ASN	OD1-CG-ND2	5.11	127.70	122.60
1	eT	124	ILE	O-C-N	-5.11	116.81	121.41
1	eT	142	VAL	CA-CB-CG1	5.11	119.08	110.40
1	f9	170	LYS	CA-C-N	5.11	127.08	120.44
1	f9	170	LYS	C-N-CA	5.11	127.08	120.44
1	fd	109	SER	N-CA-CB	5.11	118.95	110.63
1	ff	131	LYS	CA-C-O	-5.11	115.14	120.55
1	fx	20	LEU	CA-C-N	5.11	127.08	120.44
1	fx	20	LEU	C-N-CA	5.11	127.08	120.44
1	fz	66	MET	CA-C-N	5.11	127.12	120.28
1	fz	66	MET	C-N-CA	5.11	127.12	120.28
1	fL	122	PRO	CA-C-N	5.11	125.02	119.76
1	fL	122	PRO	C-N-CA	5.11	125.02	119.76
1	fR	142	VAL	N-CA-C	5.11	115.32	110.42
1	fS	27	VAL	CA-C-N	5.11	127.12	120.28
1	fS	27	VAL	C-N-CA	5.11	127.12	120.28
1	fT	89	GLY	CA-C-N	5.11	125.38	119.92
1	fT	89	GLY	C-N-CA	5.11	125.38	119.92
1	fX	176	GLN	CA-C-O	5.11	125.51	119.48
1	g7	168	PHE	CA-CB-CG	-5.11	108.69	113.80
1	a	22	ALA	CA-C-N	5.11	127.54	120.29
1	a	22	ALA	C-N-CA	5.11	127.54	120.29
1	g	161	PHE	N-CA-C	5.11	117.51	111.33
1	o	187	GLU	N-CA-C	5.11	119.78	113.50
1	p	63	GLN	CA-C-O	5.11	126.18	120.82
1	2	12	HIS	ND1-CE1-NE2	5.11	113.50	108.40
1	v	83	LEU	CA-C-O	-5.11	115.46	120.82
1	B	190	LEU	N-CA-C	5.11	116.84	111.28
1	E	30	LYS	CA-C-O	5.11	124.44	118.77
1	F	177	ALA	O-C-N	5.11	128.72	122.75
1	G	15	ILE	O-C-N	-5.11	117.36	122.62
1	M	174	ALA	N-CA-CB	5.11	117.63	110.12
1	P	22	ALA	N-CA-CB	-5.11	102.61	110.12
1	P	121	ASN	CA-CB-CG	-5.11	107.49	112.60
1	Q	88	ALA	CB-CA-C	-5.11	101.94	109.90
1	V	76	GLU	CA-C-N	5.11	127.08	120.44
1	V	76	GLU	C-N-CA	5.11	127.08	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	X	97	ARG	N-CA-C	5.11	117.29	110.35
1	5	141	ILE	CB-CA-C	5.11	118.50	111.97
1	7	37	ILE	O-C-N	-5.11	115.28	121.10
1	8	59	VAL	CA-CB-CG2	-5.11	101.72	110.40
1	8	221	VAL	CA-C-O	5.11	124.97	119.91
1	gm	100	ARG	CD-NE-CZ	5.10	131.54	124.40
1	gq	178	SER	O-C-N	-5.10	116.53	122.81
1	gt	168	PHE	O-C-N	-5.10	116.81	122.07
1	gw	121	ASN	O-C-N	-5.10	114.96	121.29
1	gL	154	ARG	O-C-N	-5.10	117.50	123.27
1	gV	89	GLY	CA-C-O	-5.10	114.22	121.52
1	gW	87	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	1H	123	PRO	N-CA-C	5.10	122.98	112.47
1	hx	105	ALA	CA-C-O	5.10	125.66	119.38
1	hO	99	PRO	CA-C-N	5.10	131.50	122.67
1	hO	99	PRO	C-N-CA	5.10	131.50	122.67
1	hP	178	SER	N-CA-C	5.10	117.71	110.10
1	ie	69	LEU	CA-C-O	-5.10	115.46	120.82
1	iv	49	PRO	N-CA-C	5.10	122.98	112.47
1	ix	62	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	iL	86	VAL	CA-CB-CG1	5.10	119.08	110.40
1	iL	208	ALA	N-CA-CB	-5.10	104.45	112.46
1	iQ	216	THR	N-CA-CB	5.10	118.25	110.44
1	1S	138	LEU	CA-C-O	5.10	125.87	120.10
1	jc	100	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	ji	117	TRP	CD2-CE2-CZ2	5.10	127.50	122.40
1	jP	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	jW	175	GLU	N-CA-CB	-5.10	101.75	109.92
1	kt	132	ARG	NH1-CZ-NH2	-5.10	112.66	119.30
1	kx	149	SER	O-C-N	-5.10	117.25	123.27
1	kJ	166	ASP	CA-CB-CG	5.10	117.70	112.60
1	l2	84	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	lu	97	ARG	CA-CB-CG	5.10	124.31	114.10
1	lB	82	ARG	CA-C-O	-5.10	115.01	120.42
1	lB	127	GLY	O-C-N	-5.10	117.29	122.19
1	lL	107	THR	N-CA-CB	5.10	117.41	110.01
1	2c	50	GLN	N-CA-C	5.10	116.84	111.28
1	2F	79	GLU	N-CA-CB	5.10	117.62	110.12
1	2X	90	PRO	CA-C-N	5.10	126.99	120.56
1	2X	90	PRO	C-N-CA	5.10	126.99	120.56
1	3n	183	ASN	N-CA-C	5.10	116.53	111.07
1	3u	37	ILE	N-CA-CB	5.10	113.72	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3w	40	PHE	O-C-N	-5.10	116.81	122.07
1	3B	201	ILE	CA-CB-CG2	5.10	119.18	110.50
1	3H	96	MET	N-CA-C	-5.10	107.08	113.72
1	3X	17	PRO	CB-CA-C	-5.10	104.66	112.11
1	4a	173	ARG	N-CA-C	5.10	116.84	111.28
1	4s	60	GLY	CA-C-N	5.10	128.26	121.01
1	4s	60	GLY	C-N-CA	5.10	128.26	121.01
1	4u	56	LEU	CA-C-N	5.10	127.63	120.28
1	4u	56	LEU	C-N-CA	5.10	127.63	120.28
1	4I	119	THR	CA-CB-OG1	5.10	117.26	109.60
1	4J	164	TYR	CA-C-N	5.10	127.09	120.56
1	4J	164	TYR	C-N-CA	5.10	127.09	120.56
1	58	129	ILE	O-C-N	-5.10	116.91	121.91
1	5n	133	TRP	CA-CB-CG	5.10	123.30	113.60
1	5X	97	ARG	CD-NE-CZ	5.10	131.55	124.40
1	6h	39	MET	CA-C-N	-5.10	113.44	120.28
1	6h	39	MET	C-N-CA	-5.10	113.44	120.28
1	6s	195	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	6u	12	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	6S	155	GLN	CA-C-O	5.10	126.87	121.05
1	6T	135	ILE	CA-C-O	-5.10	115.76	121.17
1	7f	111	LEU	CA-C-N	5.10	127.08	120.44
1	7f	111	LEU	C-N-CA	5.10	127.08	120.44
1	7u	161	PHE	CA-CB-CG	5.10	118.90	113.80
1	7N	181	VAL	N-CA-C	-5.10	105.73	110.53
1	82	100	ARG	NE-CZ-NH1	-5.10	116.40	121.50
1	8g	198	CYS	CB-CA-C	-5.10	102.32	110.79
1	8m	59	VAL	CA-C-O	-5.10	114.26	120.69
1	8G	37	ILE	O-C-N	-5.10	117.15	120.42
1	8Q	219	GLN	CA-C-O	5.10	125.46	119.28
1	9N	140	LYS	O-C-N	-5.10	116.71	122.12
1	9Q	169	TYR	N-CA-CB	5.10	118.19	110.28
1	ae	27	VAL	CA-C-O	-5.10	115.64	120.95
1	13	56	LEU	CA-C-N	5.10	127.08	120.44
1	13	56	LEU	C-N-CA	5.10	127.08	120.44
1	aP	42	ALA	N-CA-C	5.10	116.92	111.36
1	aS	45	GLU	N-CA-CB	5.10	117.65	109.28
1	b0	16	SER	O-C-N	-5.10	116.04	121.30
1	b8	159	GLU	O-C-N	-5.10	116.66	121.35
1	bi	97	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	bA	12	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	bI	66	MET	N-CA-CB	5.10	117.62	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bS	170	LYS	O-C-N	5.10	127.53	122.12
1	cd	198	CYS	N-CA-C	5.10	116.92	111.36
1	cu	138	LEU	N-CA-CB	5.10	117.71	110.16
1	cN	169	TYR	CA-CB-CG	-5.10	104.71	113.90
1	d6	132	ARG	N-CA-C	5.10	117.74	111.82
1	df	181	VAL	CA-CB-CG1	5.10	119.08	110.40
1	dn	37	ILE	O-C-N	-5.10	116.45	120.07
1	1l	159	GLU	O-C-N	5.10	128.12	121.64
1	dC	24	VAL	CA-CB-CG1	5.10	119.08	110.40
1	dL	67	GLN	CA-C-O	-5.10	115.14	120.55
1	e0	59	VAL	N-CA-CB	5.10	118.09	110.13
1	ed	50	GLN	CB-CA-C	-5.10	102.64	110.81
1	ef	36	VAL	CB-CA-C	-5.10	105.51	111.94
1	1q	12	HIS	CB-CG-ND1	5.10	130.36	122.70
1	eo	21	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	1r	4	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	eH	61	GLY	CA-C-N	5.10	129.61	122.36
1	eH	61	GLY	C-N-CA	5.10	129.61	122.36
1	f8	11	VAL	CA-C-N	5.10	129.64	122.09
1	f8	11	VAL	C-N-CA	5.10	129.64	122.09
1	fc	184	TRP	O-C-N	-5.10	116.81	122.07
1	fd	102	SER	CA-C-O	5.10	125.84	119.97
1	1w	197	ASP	CA-CB-CG	5.10	117.70	112.60
1	fA	135	ILE	N-CA-C	5.10	115.83	110.62
1	1A	64	ALA	CB-CA-C	-5.10	102.32	110.79
1	fZ	42	ALA	O-C-N	-5.10	116.58	122.09
1	g0	123	PRO	CA-C-N	-5.10	117.03	122.85
1	g0	123	PRO	C-N-CA	-5.10	117.03	122.85
1	d	8	GLY	N-CA-C	5.10	121.56	112.22
1	e	16	SER	CA-C-O	-5.10	114.74	120.25
1	i	161	PHE	N-CA-CB	-5.10	102.36	110.22
1	G	129	ILE	N-CA-C	5.10	115.83	110.62
1	N	218	CYS	N-CA-C	5.10	116.53	111.07
1	g8	210	THR	CA-C-N	5.10	127.37	120.38
1	g8	210	THR	C-N-CA	5.10	127.37	120.38
1	gl	121	ASN	CA-CB-CG	5.10	117.70	112.60
1	gt	120	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	gE	155	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	gG	202	LEU	N-CA-CB	5.10	117.71	110.16
1	gH	192	GLN	CB-CG-CD	5.10	121.28	112.60
1	gK	70	LYS	CA-C-O	5.10	125.96	120.55
1	gK	191	VAL	N-CA-C	-5.10	106.17	111.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gT	90	PRO	CA-C-O	-5.10	115.55	122.08
1	1H	216	THR	CA-C-N	5.10	128.12	120.87
1	1H	216	THR	C-N-CA	5.10	128.12	120.87
1	h7	131	LYS	CA-CB-CG	5.10	124.31	114.10
1	hh	12	HIS	N-CA-C	5.10	117.63	110.23
1	hh	107	THR	CA-CB-OG1	-5.10	101.95	109.60
1	hi	139	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	hl	177	ALA	CA-C-O	5.10	126.96	121.55
1	1J	57	ASN	CA-C-O	5.10	125.25	119.18
1	hq	105	ALA	N-CA-C	5.10	118.60	112.38
1	hz	21	ASN	CA-CB-CG	5.10	117.70	112.60
1	hK	162	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	hQ	183	ASN	N-CA-C	5.10	116.53	111.07
1	hR	90	PRO	CA-C-O	-5.10	115.19	121.31
1	1M	67	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	hX	38	PRO	CB-CA-C	5.10	120.20	112.55
1	hY	145	TYR	CB-CG-CD1	-5.10	113.15	120.80
1	i0	176	GLN	CB-CA-C	5.10	119.18	110.56
1	i2	31	ALA	CA-C-O	-5.10	115.68	121.65
1	ia	224	PRO	N-CA-C	5.10	120.47	113.84
1	ie	91	ILE	N-CA-CB	5.10	118.09	110.13
1	ig	117	TRP	CE3-CZ3-CH2	-5.10	114.47	121.10
1	ih	148	THR	CA-CB-CG2	5.10	119.17	110.50
1	in	25	LYS	N-CA-C	5.10	116.92	111.36
1	iI	73	ILE	N-CA-C	5.10	115.32	110.42
1	iY	153	ILE	CA-C-O	5.10	127.04	120.97
1	j3	2	ILE	CA-C-O	5.10	127.18	121.11
1	jb	39	MET	N-CA-CB	-5.10	102.62	110.12
1	ji	48	THR	CA-C-N	5.10	126.22	119.84
1	ji	48	THR	C-N-CA	5.10	126.22	119.84
1	1V	210	THR	N-CA-CB	5.10	117.54	110.04
1	jy	229	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	jG	223	GLY	CA-C-N	5.10	125.09	119.89
1	jG	223	GLY	C-N-CA	5.10	125.09	119.89
1	jQ	91	ILE	N-CA-C	-5.10	107.86	112.96
1	jV	21	ASN	CA-CB-CG	-5.10	107.50	112.60
1	jW	39	MET	CA-C-O	-5.10	115.01	120.42
1	jX	159	GLU	CA-C-N	5.10	125.09	119.89
1	jX	159	GLU	C-N-CA	5.10	125.09	119.89
1	k5	140	LYS	CA-C-O	5.10	125.96	120.55
1	kc	65	ALA	CA-C-O	-5.10	115.14	120.55
1	km	150	ILE	N-CA-C	-5.10	104.71	111.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ko	39	MET	O-C-N	-5.10	116.71	122.12
1	kw	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	23	12	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	kF	7	GLN	N-CA-C	5.10	117.58	111.71
1	kJ	94	GLY	CA-C-N	5.10	132.37	121.45
1	kJ	94	GLY	C-N-CA	5.10	132.37	121.45
1	kK	87	HIS	CA-C-N	5.10	128.35	121.05
1	kK	87	HIS	C-N-CA	5.10	128.35	121.05
1	kO	229	ARG	N-CA-C	5.10	117.29	110.35
1	l4	216	THR	O-C-N	-5.10	115.42	122.46
1	l7	149	SER	N-CA-C	5.10	117.11	110.43
1	lc	139	ASN	CB-CA-C	-5.10	102.87	110.88
1	lh	5	ASN	CA-CB-CG	5.10	117.70	112.60
1	lj	5	ASN	CA-C-N	5.10	131.79	123.93
1	lj	5	ASN	C-N-CA	5.10	131.79	123.93
1	ln	219	GLN	O-C-N	-5.10	114.20	122.42
1	lp	87	HIS	CB-CG-CD2	-5.10	124.57	131.20
1	lr	206	GLY	CA-C-N	5.10	124.41	118.85
1	lr	206	GLY	C-N-CA	5.10	124.41	118.85
1	ls	173	ARG	N-CA-C	-5.10	107.00	113.18
1	lw	28	GLU	CB-CG-CD	5.10	121.28	112.60
1	29	161	PHE	CA-CB-CG	-5.10	108.70	113.80
1	lD	167	ARG	CA-C-N	5.10	127.43	120.54
1	lD	167	ARG	C-N-CA	5.10	127.43	120.54
1	lE	215	MET	N-CA-C	-5.10	105.90	111.82
1	2c	40	PHE	CA-C-N	5.10	127.07	120.44
1	2c	40	PHE	C-N-CA	5.10	127.07	120.44
1	2e	155	GLN	N-CA-CB	5.10	117.57	109.51
1	2k	208	ALA	CB-CA-C	5.10	117.95	109.38
1	2r	199	LYS	CA-C-N	5.10	127.07	120.44
1	2r	199	LYS	C-N-CA	5.10	127.07	120.44
1	2u	110	THR	O-C-N	5.10	128.66	122.94
1	2x	144	MET	N-CA-C	5.10	116.65	111.14
1	2G	49	PRO	N-CA-CB	5.10	108.61	103.25
1	2L	16	SER	N-CA-CB	-5.10	102.77	110.32
1	34	167	ARG	CB-CA-C	-5.10	101.36	110.70
1	36	12	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	3b	148	THR	CA-CB-OG1	5.10	117.25	109.60
1	3d	179	GLN	CA-C-N	5.10	127.12	120.28
1	3d	179	GLN	C-N-CA	5.10	127.12	120.28
1	3j	169	TYR	CA-CB-CG	-5.10	104.71	113.90
1	3k	110	THR	O-C-N	-5.10	117.22	122.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3k	134	ILE	O-C-N	-5.10	116.92	121.87
1	3n	169	TYR	CA-C-N	5.10	127.38	120.65
1	3n	169	TYR	C-N-CA	5.10	127.38	120.65
1	3y	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	3A	91	ILE	CA-CB-CG1	5.10	119.08	110.40
1	3O	134	ILE	CB-CA-C	-5.10	105.18	112.22
1	3U	52	LEU	N-CA-C	-5.10	105.72	111.28
1	3Z	86	VAL	CA-CB-CG1	5.10	119.07	110.40
1	3Z	183	ASN	O-C-N	-5.10	116.81	122.07
1	45	133	TRP	CA-CB-CG	5.10	123.29	113.60
1	48	173	ARG	CA-C-O	-5.10	115.12	120.63
1	4h	41	SER	CA-C-O	5.10	126.18	120.82
1	4l	170	LYS	N-CA-C	5.10	116.84	111.28
1	4o	111	LEU	CA-C-O	5.10	125.96	120.55
1	4o	119	THR	CA-C-N	5.10	128.32	120.82
1	4o	119	THR	C-N-CA	5.10	128.32	120.82
1	4o	136	LEU	CA-C-O	-5.10	115.14	120.55
1	4x	16	SER	O-C-N	-5.10	116.05	121.30
1	4x	162	ARG	N-CA-C	5.10	116.53	111.07
1	4A	97	ARG	CB-CA-C	5.10	118.19	109.72
1	4B	171	THR	OG1-CB-CG2	-5.10	99.09	109.30
1	4D	40	PHE	CA-C-O	5.10	126.36	120.90
1	4F	34	PRO	CB-CA-C	-5.10	104.66	112.11
1	4M	62	HIS	O-C-N	-5.10	115.57	122.41
1	5c	114	GLN	CA-C-N	5.10	127.45	120.46
1	5c	114	GLN	C-N-CA	5.10	127.45	120.46
1	5p	84	HIS	CA-C-N	5.10	125.04	119.78
1	5p	84	HIS	C-N-CA	5.10	125.04	119.78
1	5v	116	GLY	O-C-N	-5.10	117.29	122.19
1	5x	99	PRO	O-C-N	-5.10	115.64	122.78
1	5z	185	MET	CA-C-O	5.10	125.96	120.55
1	5C	5	ASN	N-CA-CB	-5.10	102.62	110.12
1	5E	145	TYR	N-CA-C	-5.10	106.74	113.17
1	5R	152	ASP	CA-C-N	5.10	127.34	120.50
1	5R	152	ASP	C-N-CA	5.10	127.34	120.50
1	5T	36	VAL	CA-C-O	5.10	126.58	121.27
1	5T	230	VAL	CA-C-O	5.10	125.99	120.53
1	6h	209	ALA	CA-C-N	5.10	128.11	120.87
1	6h	209	ALA	C-N-CA	5.10	128.11	120.87
1	6n	10	MET	O-C-N	-5.10	116.81	122.93
1	6p	90	PRO	CA-C-N	5.10	127.34	120.50
1	6p	90	PRO	C-N-CA	5.10	127.34	120.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6p	121	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	6s	132	ARG	CA-C-N	5.10	127.12	120.28
1	6s	132	ARG	C-N-CA	5.10	127.12	120.28
1	6x	199	LYS	CA-C-O	5.10	125.96	120.55
1	6E	142	VAL	CA-C-N	5.10	127.38	120.44
1	6E	142	VAL	C-N-CA	5.10	127.38	120.44
1	6G	55	MET	CA-C-N	5.10	127.53	120.29
1	6G	55	MET	C-N-CA	5.10	127.53	120.29
1	6O	114	GLN	CA-C-N	5.10	127.45	120.46
1	6O	114	GLN	C-N-CA	5.10	127.45	120.46
1	6S	59	VAL	N-CA-CB	5.10	116.52	110.55
1	7m	229	ARG	O-C-N	-5.10	116.65	122.93
1	7q	139	ASN	N-CA-C	5.10	117.23	111.11
1	7t	16	SER	N-CA-C	5.10	117.00	109.50
1	7A	81	ASP	N-CA-C	5.10	116.53	111.07
1	7J	31	ALA	CB-CA-C	-5.10	102.00	110.68
1	7O	12	HIS	CA-CB-CG	-5.10	108.70	113.80
1	7Q	173	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	7R	47	ALA	O-C-N	-5.10	117.50	123.27
1	7Y	3	VAL	O-C-N	-5.10	117.13	122.95
1	80	197	ASP	N-CA-C	5.10	116.84	111.28
1	8a	47	ALA	N-CA-CB	-5.10	102.12	109.83
1	8h	74	ASN	CA-C-N	5.10	127.07	120.44
1	8h	74	ASN	C-N-CA	5.10	127.07	120.44
1	8q	23	TRP	CA-C-N	-5.10	114.03	120.56
1	8q	23	TRP	C-N-CA	-5.10	114.03	120.56
1	8t	199	LYS	N-CA-C	5.10	117.50	111.33
1	8w	99	PRO	CB-CA-C	-5.10	104.88	111.46
1	8L	88	ALA	N-CA-CB	5.10	117.47	109.97
1	8M	134	ILE	CA-C-O	-5.10	115.74	121.05
1	8T	190	LEU	N-CA-CB	-5.10	102.36	110.22
1	8W	135	ILE	N-CA-CB	5.10	116.52	110.55
1	9s	9	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	9x	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	9H	3	VAL	N-CA-C	-5.10	100.53	108.95
1	9W	140	LYS	O-C-N	-5.10	116.81	122.07
1	9Y	166	ASP	O-C-N	-5.10	116.81	122.07
1	a7	152	ASP	CA-CB-CG	-5.10	107.50	112.60
1	11	171	THR	N-CA-C	-5.10	105.72	111.28
1	aw	10	MET	CA-C-O	5.10	126.73	120.15
1	aw	52	LEU	O-C-N	-5.10	116.71	122.12
1	ax	166	ASP	CA-CB-CG	5.10	117.70	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aF	79	GLU	N-CA-C	5.10	116.53	111.07
1	aO	40	PHE	CA-CB-CG	5.10	118.90	113.80
1	aR	75	GLU	O-C-N	-5.10	116.71	122.12
1	aT	37	ILE	CA-C-N	5.10	124.60	119.19
1	aT	37	ILE	C-N-CA	5.10	124.60	119.19
1	aX	160	PRO	N-CA-C	5.10	119.22	110.95
1	aY	72	THR	CB-CA-C	-5.10	102.87	110.88
1	bi	188	THR	CA-C-N	5.10	131.29	121.54
1	bi	188	THR	C-N-CA	5.10	131.29	121.54
1	bo	148	THR	CA-CB-CG2	5.10	119.18	110.50
1	bo	188	THR	CA-C-N	5.10	127.12	120.28
1	bo	188	THR	C-N-CA	5.10	127.12	120.28
1	bs	45	GLU	CB-CG-CD	-5.10	103.92	112.60
1	by	181	VAL	CA-CB-CG1	5.10	119.07	110.40
1	bC	87	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	bD	30	LYS	N-CA-CB	5.10	118.32	110.61
1	bO	159	GLU	N-CA-C	5.10	116.96	109.71
1	bQ	149	SER	O-C-N	-5.10	116.71	122.68
1	cb	173	ARG	CG-CD-NE	-5.10	100.78	112.00
1	cd	50	GLN	CA-C-N	5.10	127.07	120.44
1	cd	50	GLN	C-N-CA	5.10	127.07	120.44
1	co	130	TYR	CA-C-O	5.10	125.96	120.55
1	cz	169	TYR	CA-C-O	-5.10	115.01	120.42
1	cC	117	TRP	CH2-CZ2-CE2	-5.10	110.87	117.50
1	cI	79	GLU	O-C-N	5.10	127.53	122.12
1	cK	26	VAL	CA-CB-CG1	5.10	119.07	110.40
1	cK	94	GLY	CA-C-N	5.10	128.95	120.94
1	cK	94	GLY	C-N-CA	5.10	128.95	120.94
1	cM	48	THR	CA-C-N	5.10	124.55	119.24
1	cM	48	THR	C-N-CA	5.10	124.55	119.24
1	cU	130	TYR	CB-CA-C	-5.10	102.84	110.90
1	cZ	173	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	db	112	GLN	CA-C-O	5.10	125.96	120.55
1	dc	120	HIS	O-C-N	-5.10	116.78	122.75
1	dc	141	ILE	N-CA-C	5.10	115.83	110.62
1	dg	68	MET	O-C-N	-5.10	116.33	122.15
1	dg	107	THR	N-CA-C	5.10	116.65	111.14
1	dr	116	GLY	CA-C-N	5.10	127.12	120.28
1	dr	116	GLY	C-N-CA	5.10	127.12	120.28
1	dv	80	TRP	CB-CA-C	5.10	119.26	110.79
1	dw	59	VAL	CA-C-O	-5.10	115.22	121.04
1	dx	100	ARG	N-CA-C	-5.10	103.19	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dE	112	GLN	CA-C-N	5.10	127.12	120.28
1	dE	112	GLN	C-N-CA	5.10	127.12	120.28
1	dE	190	LEU	CA-C-N	5.10	127.45	120.46
1	dE	190	LEU	C-N-CA	5.10	127.45	120.46
1	dG	59	VAL	CB-CA-C	5.10	116.74	111.23
1	dK	97	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	dM	113	GLU	CA-C-N	5.10	128.07	120.31
1	dM	113	GLU	C-N-CA	5.10	128.07	120.31
1	dQ	183	ASN	CB-CG-OD1	-5.10	110.60	120.80
1	dR	126	VAL	N-CA-C	5.10	117.43	111.05
1	dZ	118	MET	N-CA-C	-5.10	106.74	113.17
1	1o	194	ALA	N-CA-C	5.10	117.29	110.35
1	e5	220	GLY	N-CA-C	-5.10	107.77	115.32
1	e7	85	PRO	N-CA-CB	5.10	107.79	103.35
1	ea	85	PRO	O-C-N	-5.10	116.74	122.91
1	1p	226	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	eg	212	GLU	N-CA-CB	-5.10	102.62	110.12
1	eq	23	TRP	CD2-CE3-CZ3	-5.10	111.97	118.60
1	es	44	SER	O-C-N	-5.10	113.36	121.53
1	es	141	ILE	CA-C-O	5.10	126.26	120.95
1	ey	54	THR	CA-C-O	5.10	125.96	120.55
1	eF	135	ILE	CA-C-O	-5.10	115.64	120.95
1	eG	74	ASN	N-CA-C	5.10	117.23	111.11
1	1t	27	VAL	N-CA-CB	5.10	116.52	110.55
1	eU	21	ASN	CA-C-N	5.10	129.31	120.58
1	eU	21	ASN	C-N-CA	5.10	129.31	120.58
1	eX	7	GLN	N-CA-CB	-5.10	104.11	110.90
1	f2	115	ILE	O-C-N	-5.10	116.72	121.87
1	f9	50	GLN	O-C-N	-5.10	116.71	122.12
1	fk	182	LYS	O-C-N	-5.10	116.71	122.12
1	fv	178	SER	O-C-N	-5.10	115.81	122.59
1	fv	223	GLY	CA-C-O	5.10	128.82	121.52
1	1y	9	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	fH	183	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	fH	227	LYS	CG-CD-CE	5.10	123.04	111.30
1	fJ	102	SER	N-CA-C	5.10	117.74	111.82
1	o	192	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	t	16	SER	CA-C-N	5.10	124.89	119.28
1	t	16	SER	C-N-CA	5.10	124.89	119.28
1	u	196	PRO	CA-C-N	5.10	127.39	120.65
1	u	196	PRO	C-N-CA	5.10	127.39	120.65
1	L	140	LYS	CA-C-N	5.10	126.99	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	140	LYS	C-N-CA	5.10	126.99	120.56
1	L	153	ILE	CA-C-O	5.10	126.62	120.65
1	N	109	SER	CA-C-O	5.10	125.98	120.32
1	V	230	VAL	N-CA-C	5.10	115.68	109.30
1	gd	181	VAL	N-CA-C	5.10	115.82	110.62
1	gp	24	VAL	N-CA-C	5.10	115.82	110.62
1	gp	195	ASN	CA-C-O	-5.10	114.74	120.25
1	gw	131	LYS	N-CA-C	5.10	117.50	111.33
1	gy	183	ASN	N-CA-CB	5.10	117.41	110.01
1	gG	138	LEU	CA-C-N	5.10	127.11	120.28
1	gG	138	LEU	C-N-CA	5.10	127.11	120.28
1	gM	97	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	gO	151	LEU	CA-C-O	5.10	125.64	119.31
1	1G	103	ASP	N-CA-CB	-5.10	102.37	110.28
1	gZ	93	PRO	CA-C-N	5.10	131.28	122.05
1	gZ	93	PRO	C-N-CA	5.10	131.28	122.05
1	h3	38	PRO	N-CA-CB	5.10	108.71	103.15
1	hg	5	ASN	CA-CB-CG	5.10	117.70	112.60
1	hk	33	SER	N-CA-C	5.10	115.47	109.60
1	hp	15	ILE	N-CA-CB	5.10	118.09	110.13
1	i2	162	ARG	N-CA-C	5.10	117.58	111.71
1	if	16	SER	CB-CA-C	5.10	117.67	109.41
1	ij	203	LYS	CA-C-N	5.10	127.11	120.28
1	ij	203	LYS	C-N-CA	5.10	127.11	120.28
1	is	21	ASN	CA-C-N	5.10	127.12	120.28
1	is	21	ASN	C-N-CA	5.10	127.12	120.28
1	iE	182	LYS	N-CA-C	5.10	116.92	111.36
1	iN	195	ASN	CB-CG-OD1	-5.10	110.60	120.80
1	iP	197	ASP	N-CA-C	5.10	116.53	111.07
1	iR	150	ILE	N-CA-C	5.10	118.21	111.17
1	je	139	ASN	N-CA-CB	5.10	117.62	110.12
1	jy	126	VAL	O-C-N	-5.10	116.91	121.91
1	jB	181	VAL	N-CA-CB	5.10	117.48	110.54
1	1X	13	GLN	N-CA-C	5.10	117.16	109.41
1	ke	66	MET	CG-SD-CE	-5.10	89.68	100.90
1	ke	90	PRO	CA-C-O	-5.10	115.59	121.36
1	21	122	PRO	CA-C-N	5.10	125.03	119.78
1	21	122	PRO	C-N-CA	5.10	125.03	119.78
1	kM	57	ASN	CA-CB-CG	5.10	117.70	112.60
1	kY	10	MET	CG-SD-CE	-5.10	89.68	100.90
1	lc	142	VAL	O-C-N	-5.10	116.84	121.94
1	lf	156	GLY	O-C-N	-5.10	116.67	121.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lf	218	CYS	CB-CA-C	5.10	118.35	111.82
1	lu	55	MET	N-CA-C	5.10	116.53	111.07
1	lD	212	GLU	N-CA-CB	-5.10	102.61	110.01
1	lM	213	GLU	CB-CA-C	-5.10	102.32	110.79
1	2b	224	PRO	N-CA-C	5.10	119.22	111.11
1	2d	175	GLU	O-C-N	-5.10	116.53	122.81
1	2g	226	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	2w	110	THR	O-C-N	-5.10	116.71	122.68
1	2w	126	VAL	N-CA-C	5.10	115.32	110.42
1	2H	175	GLU	O-C-N	-5.10	117.07	123.04
1	2V	90	PRO	N-CA-C	5.10	119.21	111.15
1	2Z	194	ALA	O-C-N	-5.10	117.20	122.96
1	32	165	VAL	N-CA-C	5.10	115.82	110.62
1	3f	23	TRP	CA-C-N	5.10	127.45	120.46
1	3f	23	TRP	C-N-CA	5.10	127.45	120.46
1	3X	139	ASN	CA-C-O	5.10	125.83	120.42
1	44	78	ALA	O-C-N	-5.10	116.82	122.07
1	46	171	THR	N-CA-CB	5.10	117.62	110.12
1	4h	122	PRO	CA-C-O	-5.10	113.16	120.56
1	4t	126	VAL	N-CA-C	5.10	116.44	110.62
1	4D	180	GLU	N-CA-C	5.10	116.84	111.28
1	4S	174	ALA	CA-C-O	-5.10	113.33	119.15
1	4T	82	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	58	163	ASP	N-CA-C	-5.10	105.61	111.07
1	5c	211	LEU	O-C-N	-5.10	116.78	122.09
1	5m	199	LYS	N-CA-C	5.10	116.84	111.28
1	5r	195	ASN	O-C-N	-5.10	116.05	121.30
1	5C	84	HIS	CA-C-N	5.10	126.22	119.84
1	5C	84	HIS	C-N-CA	5.10	126.22	119.84
1	5F	106	GLY	O-C-N	-5.10	116.23	122.30
1	69	160	PRO	O-C-N	-5.10	116.74	122.91
1	6g	18	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	6i	81	ASP	CB-CA-C	5.10	120.07	110.63
1	6p	143	ARG	CA-C-O	-5.10	115.14	120.55
1	74	52	LEU	N-CA-CB	5.10	117.71	110.06
1	76	86	VAL	CB-CA-C	-5.10	103.73	111.33
1	7c	32	PHE	CA-C-O	5.10	125.97	119.95
1	7n	68	MET	CA-C-N	5.10	127.38	120.44
1	7n	68	MET	C-N-CA	5.10	127.38	120.44
1	7v	4	GLN	N-CA-C	-5.10	105.80	111.36
1	7D	186	THR	N-CA-CB	5.10	117.62	110.12
1	7P	141	ILE	O-C-N	5.10	126.82	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8y	108	THR	CA-C-O	5.10	125.97	119.95
1	8C	143	ARG	O-C-N	-5.10	116.58	122.09
1	8F	150	ILE	CA-CB-CG1	5.10	119.07	110.40
1	8N	84	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	8R	80	TRP	CA-CB-CG	5.10	123.29	113.60
1	97	1	PRO	CB-CA-C	5.10	119.79	110.10
1	97	70	LYS	O-C-N	-5.10	116.82	122.07
1	9c	141	ILE	CA-C-N	5.10	126.99	120.56
1	9c	141	ILE	C-N-CA	5.10	126.99	120.56
1	9h	26	VAL	CA-C-N	5.10	127.09	120.56
1	9h	26	VAL	C-N-CA	5.10	127.09	120.56
1	9h	218	CYS	N-CA-CB	5.10	119.11	110.49
1	9J	59	VAL	O-C-N	-5.10	117.84	122.79
1	9S	173	ARG	CA-C-O	-5.10	115.14	120.55
1	ae	110	THR	N-CA-CB	5.10	120.43	111.55
1	ai	8	GLY	N-CA-C	5.10	117.99	110.80
1	aA	56	LEU	N-CA-C	5.10	116.92	111.36
1	aE	227	LYS	O-C-N	-5.10	116.25	122.22
1	aR	12	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	b7	101	GLY	CA-C-N	5.10	127.12	120.28
1	b7	101	GLY	C-N-CA	5.10	127.12	120.28
1	bc	216	THR	CA-CB-CG2	5.10	119.17	110.50
1	bi	150	ILE	O-C-N	-5.10	115.48	122.11
1	bj	212	GLU	O-C-N	-5.10	116.71	122.12
1	bk	158	LYS	O-C-N	-5.10	115.06	121.95
1	bP	176	GLN	N-CA-CB	-5.10	102.48	110.69
1	bY	159	GLU	CA-C-N	5.10	125.10	119.90
1	bY	159	GLU	C-N-CA	5.10	125.10	119.90
1	c3	86	VAL	N-CA-CB	5.10	121.40	110.64
1	cm	84	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	cw	199	LYS	CA-C-O	-5.10	115.12	120.63
1	cP	87	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	d3	29	GLU	CA-C-O	5.10	125.71	119.64
1	dw	180	GLU	CA-C-N	5.10	127.66	120.42
1	dw	180	GLU	C-N-CA	5.10	127.66	120.42
1	dB	11	VAL	O-C-N	-5.10	117.78	123.03
1	dH	149	SER	CA-C-N	5.10	127.45	120.46
1	dH	149	SER	C-N-CA	5.10	127.45	120.46
1	1m	16	SER	CB-CA-C	5.10	117.67	109.41
1	e3	61	GLY	N-CA-C	5.10	120.06	112.41
1	eG	215	MET	N-CA-C	5.10	119.35	113.18
1	f3	215	MET	N-CA-C	5.10	116.84	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f7	176	GLN	CA-C-O	5.10	127.47	121.40
1	fe	37	ILE	CA-C-O	-5.10	114.51	118.85
1	1w	81	ASP	CA-CB-CG	5.10	117.70	112.60
1	1x	230	VAL	N-CA-CB	5.10	117.25	110.26
1	g0	24	VAL	CA-CB-CG1	5.10	119.07	110.40
1	u	68	MET	O-C-N	-5.10	116.71	122.12
1	g8	58	THR	CA-CB-OG1	5.10	117.25	109.60
1	g9	168	PHE	CA-C-O	5.10	126.17	120.82
1	gh	27	VAL	CA-C-O	5.10	125.75	119.43
1	gi	183	ASN	CB-CG-ND2	-5.10	108.75	116.40
1	gn	186	THR	N-CA-C	5.10	116.53	111.07
1	gw	117	TRP	CA-C-N	5.10	127.07	120.44
1	gw	117	TRP	C-N-CA	5.10	127.07	120.44
1	gx	82	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	1E	205	LEU	CA-C-O	5.10	125.64	119.11
1	gC	50	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	gE	223	GLY	CA-C-N	5.10	126.21	119.84
1	gE	223	GLY	C-N-CA	5.10	126.21	119.84
1	gF	121	ASN	O-C-N	-5.10	116.87	121.66
1	h5	42	ALA	CB-CA-C	-5.10	102.32	110.79
1	h6	90	PRO	N-CA-C	5.10	119.21	111.15
1	hc	193	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	he	172	LEU	N-CA-CB	-5.10	102.38	110.28
1	1I	134	ILE	CA-C-O	-5.10	115.76	121.17
1	ho	85	PRO	CA-C-O	-5.10	115.60	121.36
1	hs	187	GLU	N-CA-C	5.10	117.23	111.11
1	hy	186	THR	CA-C-O	5.10	126.35	121.00
1	hG	173	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	hI	117	TRP	O-C-N	-5.10	116.25	122.22
1	hK	9	GLN	CA-C-N	5.10	131.28	121.54
1	hK	9	GLN	C-N-CA	5.10	131.28	121.54
1	hK	99	PRO	CB-CA-C	5.10	116.04	111.40
1	hN	151	LEU	N-CA-C	-5.10	106.90	113.02
1	hP	21	ASN	CA-CB-CG	5.10	117.70	112.60
1	hP	203	LYS	CB-CA-C	-5.10	102.33	110.79
1	hX	171	THR	CA-C-N	5.10	127.11	120.28
1	hX	171	THR	C-N-CA	5.10	127.11	120.28
1	i0	59	VAL	N-CA-C	5.10	115.87	110.72
1	i1	50	GLN	CA-C-O	5.10	126.17	120.82
1	1N	226	HIS	CA-C-N	5.10	129.35	120.68
1	1N	226	HIS	C-N-CA	5.10	129.35	120.68
1	i6	147	PRO	CA-C-N	5.10	128.45	120.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i6	147	PRO	C-N-CA	5.10	128.45	120.75
1	id	106	GLY	O-C-N	-5.10	116.00	122.32
1	ie	184	TRP	CA-C-O	-5.10	115.44	120.90
1	ig	145	TYR	CA-CB-CG	-5.10	104.72	113.90
1	ik	143	ARG	NE-CZ-NH2	5.10	123.79	119.20
1	iy	156	GLY	O-C-N	-5.10	116.67	121.77
1	iN	85	PRO	CB-CA-C	5.10	117.45	110.52
1	iO	159	GLU	CB-CA-C	-5.10	104.04	109.85
1	iU	131	LYS	N-CA-CB	-5.10	102.62	110.12
1	iV	108	THR	CA-C-O	5.10	124.66	119.05
1	iV	173	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	1U	226	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	jc	100	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	jF	86	VAL	O-C-N	5.10	128.12	122.66
1	1X	118	MET	CG-SD-CE	-5.10	89.68	100.90
1	jK	84	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	1Y	79	GLU	CB-CG-CD	-5.10	103.93	112.60
1	jQ	74	ASN	CA-CB-CG	-5.10	107.50	112.60
1	jS	92	GLU	CA-C-N	5.10	125.10	119.90
1	jS	92	GLU	C-N-CA	5.10	125.10	119.90
1	jV	53	ASN	N-CA-CB	5.10	117.62	110.12
1	jV	65	ALA	CA-C-O	5.10	126.35	121.00
1	1Z	34	PRO	CA-C-N	5.10	130.06	121.14
1	1Z	34	PRO	C-N-CA	5.10	130.06	121.14
1	k3	120	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	ka	87	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	kf	132	ARG	O-C-N	-5.10	116.72	122.12
1	ki	18	ARG	CA-C-N	5.10	127.11	120.28
1	ki	18	ARG	C-N-CA	5.10	127.11	120.28
1	ki	165	VAL	N-CA-C	5.10	115.31	110.42
1	kr	162	ARG	CB-CA-C	-5.10	102.65	110.81
1	ks	218	CYS	N-CA-C	5.10	121.66	110.80
1	kt	166	ASP	O-C-N	-5.10	116.73	122.03
1	kv	118	MET	CA-C-N	5.10	130.56	122.60
1	kv	118	MET	C-N-CA	5.10	130.56	122.60
1	kw	180	GLU	N-CA-C	5.10	117.73	111.82
1	kH	142	VAL	CA-C-N	5.10	127.07	120.44
1	kH	142	VAL	C-N-CA	5.10	127.07	120.44
1	kJ	211	LEU	CA-C-N	5.10	127.38	120.44
1	kJ	211	LEU	C-N-CA	5.10	127.38	120.44
1	kN	226	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	kU	148	THR	N-CA-CB	5.10	117.53	110.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kW	205	LEU	N-CA-C	5.10	117.58	111.71
1	kX	128	GLU	N-CA-C	5.10	116.92	111.36
1	26	29	GLU	CB-CA-C	-5.10	99.33	109.99
1	lb	38	PRO	CA-C-O	5.10	127.14	119.74
1	lf	107	THR	O-C-N	-5.10	115.81	122.59
1	27	40	PHE	N-CA-CB	-5.10	102.61	110.16
1	ln	221	VAL	CA-C-N	-5.10	113.60	121.45
1	ln	221	VAL	C-N-CA	-5.10	113.60	121.45
1	28	172	LEU	CA-C-O	-5.10	115.47	120.82
1	lv	214	MET	O-C-N	-5.10	116.71	122.12
1	ly	104	ILE	N-CA-CB	5.10	116.18	110.62
1	lz	105	ALA	N-CA-C	-5.10	106.90	113.02
1	lF	219	GLN	CG-CD-OE1	5.10	131.00	120.80
1	2a	141	ILE	CB-CA-C	5.10	119.03	112.14
1	2f	161	PHE	N-CA-C	5.10	117.73	111.82
1	2h	212	GLU	O-C-N	-5.10	116.72	122.12
1	2j	146	SER	CA-C-N	5.10	124.59	119.19
1	2j	146	SER	C-N-CA	5.10	124.59	119.19
1	2m	46	GLY	O-C-N	5.10	128.78	122.41
1	2o	13	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	2y	218	CYS	N-CA-C	5.10	123.49	113.29
1	2z	12	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	2E	149	SER	O-C-N	-5.10	116.54	122.81
1	2G	182	LYS	O-C-N	5.10	127.53	122.12
1	2J	113	GLU	O-C-N	-5.10	116.82	122.07
1	2M	174	ALA	CA-C-N	5.10	128.01	120.82
1	2M	174	ALA	C-N-CA	5.10	128.01	120.82
1	2P	36	VAL	N-CA-C	-5.10	105.89	113.39
1	3m	217	ALA	N-CA-CB	5.10	117.51	110.17
1	3s	23	TRP	CA-C-N	5.10	126.98	120.56
1	3s	23	TRP	C-N-CA	5.10	126.98	120.56
1	3O	226	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	3R	200	THR	CB-CA-C	-5.10	102.33	110.79
1	3S	171	THR	N-CA-C	-5.10	105.63	111.14
1	3T	205	LEU	CA-C-N	5.10	129.88	121.87
1	3T	205	LEU	C-N-CA	5.10	129.88	121.87
1	3Y	3	VAL	N-CA-CB	5.10	121.01	112.44
1	42	126	VAL	N-CA-C	5.10	116.43	110.62
1	47	185	MET	CB-CA-C	-5.10	102.65	110.81
1	4a	201	ILE	CA-C-O	-5.10	115.44	120.85
1	4b	229	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	4v	72	THR	CA-C-N	5.10	127.18	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4v	72	THR	C-N-CA	5.10	127.18	120.60
1	4W	49	PRO	CA-C-N	5.10	127.37	120.38
1	4W	49	PRO	C-N-CA	5.10	127.37	120.38
1	51	192	GLN	N-CA-CB	-5.10	102.62	110.12
1	53	58	THR	CA-CB-CG2	5.10	119.17	110.50
1	54	205	LEU	CA-C-N	5.10	129.88	121.87
1	54	205	LEU	C-N-CA	5.10	129.88	121.87
1	5q	84	HIS	CA-C-N	5.10	125.10	119.90
1	5q	84	HIS	C-N-CA	5.10	125.10	119.90
1	5r	181	VAL	CA-C-O	-5.10	115.65	120.95
1	5t	82	ARG	N-CA-C	5.10	116.92	111.36
1	5w	132	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	5F	64	ALA	N-CA-C	5.10	116.65	111.14
1	5N	166	ASP	N-CA-CB	-5.10	102.62	110.12
1	5T	177	ALA	CA-C-O	5.10	126.84	121.33
1	63	229	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	66	55	MET	O-C-N	5.10	127.32	122.07
1	6d	195	ASN	N-CA-CB	-5.10	102.33	110.03
1	6e	145	TYR	O-C-N	-5.10	115.81	122.39
1	6n	81	ASP	CA-CB-CG	5.10	117.70	112.60
1	6x	4	GLN	CB-CG-CD	5.10	121.27	112.60
1	6F	16	SER	CB-CA-C	-5.10	101.46	109.52
1	6H	101	GLY	O-C-N	-5.10	116.83	122.24
1	6R	229	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	74	192	GLN	N-CA-C	5.10	117.73	111.82
1	7d	84	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	7v	124	ILE	CA-C-O	5.10	125.45	119.89
1	7z	41	SER	N-CA-C	5.10	116.84	111.28
1	7F	229	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	7I	48	THR	N-CA-CB	5.10	117.73	110.03
1	7J	24	VAL	CA-CB-CG1	5.10	119.07	110.40
1	7M	186	THR	N-CA-C	5.10	117.74	111.82
1	7V	122	PRO	CA-C-N	5.10	125.50	119.99
1	7V	122	PRO	C-N-CA	5.10	125.50	119.99
1	83	133	TRP	O-C-N	-5.10	116.00	122.27
1	84	230	VAL	CA-C-O	-5.10	114.70	120.67
1	86	214	MET	CA-C-O	5.10	124.75	119.14
1	87	14	ALA	CA-C-O	5.10	126.95	121.44
1	8a	13	GLN	CB-CG-CD	-5.10	103.93	112.60
1	8f	74	ASN	N-CA-C	5.10	117.23	111.11
1	8m	166	ASP	CA-C-N	5.10	127.11	120.28
1	8m	166	ASP	C-N-CA	5.10	127.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8C	172	LEU	CA-C-O	5.10	125.83	119.97
1	8F	143	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	8M	143	ARG	CG-CD-NE	-5.10	100.78	112.00
1	8O	92	GLU	CA-C-N	5.10	125.39	119.93
1	8O	92	GLU	C-N-CA	5.10	125.39	119.93
1	8T	209	ALA	O-C-N	-5.10	116.54	122.81
1	9b	23	TRP	CA-C-N	5.10	127.45	120.77
1	9b	23	TRP	C-N-CA	5.10	127.45	120.77
1	9g	39	MET	CB-CA-C	-5.10	102.87	110.88
1	9h	67	GLN	O-C-N	-5.10	116.72	122.12
1	9w	226	HIS	CA-CB-CG	5.10	118.90	113.80
1	9B	143	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	9G	126	VAL	CA-C-N	5.10	125.60	119.94
1	9G	126	VAL	C-N-CA	5.10	125.60	119.94
1	9I	212	GLU	CB-CG-CD	5.10	121.27	112.60
1	9J	8	GLY	CA-C-N	5.10	128.09	120.90
1	9J	8	GLY	C-N-CA	5.10	128.09	120.90
1	9Q	95	GLN	N-CA-C	5.10	117.98	110.59
1	9W	172	LEU	CA-C-N	5.10	127.42	120.54
1	9W	172	LEU	C-N-CA	5.10	127.42	120.54
1	9X	162	ARG	CA-C-O	5.10	125.96	120.55
1	Z	161	PHE	CA-C-N	5.10	127.11	120.28
1	Z	161	PHE	C-N-CA	5.10	127.11	120.28
1	a4	185	MET	N-CA-CB	5.10	117.61	110.12
1	ab	147	PRO	CB-CA-C	-5.10	103.14	111.56
1	ac	58	THR	CA-CB-CG2	5.10	119.17	110.50
1	ad	84	HIS	CA-CB-CG	5.10	118.90	113.80
1	aq	168	PHE	CA-C-N	5.10	127.42	120.54
1	aq	168	PHE	C-N-CA	5.10	127.42	120.54
1	at	21	ASN	CB-CA-C	5.10	118.96	110.90
1	aw	92	GLU	CA-C-N	5.10	125.10	119.90
1	aw	92	GLU	C-N-CA	5.10	125.10	119.90
1	aE	76	GLU	N-CA-C	5.10	116.53	111.07
1	aM	8	GLY	O-C-N	-5.10	119.57	123.80
1	aN	13	GLN	CA-C-N	5.10	128.01	120.82
1	aN	13	GLN	C-N-CA	5.10	128.01	120.82
1	aP	77	ALA	N-CA-CB	-5.10	102.62	110.12
1	aR	76	GLU	N-CA-C	5.10	116.84	111.28
1	aS	171	THR	N-CA-CB	5.10	117.40	110.01
1	aT	214	MET	N-CA-C	5.10	117.74	111.82
1	bb	12	HIS	CB-CG-CD2	-5.10	124.57	131.20
1	bh	66	MET	N-CA-C	5.10	116.84	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bj	84	HIS	N-CA-CB	5.10	117.56	110.11
1	by	228	ALA	CA-C-O	5.10	126.87	121.16
1	bI	201	ILE	CA-C-N	5.10	127.37	120.44
1	bI	201	ILE	C-N-CA	5.10	127.37	120.44
1	bK	182	LYS	N-CA-C	5.10	116.84	111.28
1	bQ	73	ILE	CB-CA-C	-5.10	105.44	111.97
1	bZ	69	LEU	N-CA-C	5.10	117.23	111.11
1	c3	124	ILE	O-C-N	-5.10	117.93	121.55
1	c8	97	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	cb	17	PRO	N-CA-C	-5.10	107.09	114.18
1	cb	66	MET	N-CA-C	5.10	116.84	111.28
1	ce	4	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	cm	12	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	cp	56	LEU	N-CA-CB	-5.10	102.44	110.30
1	ct	82	ARG	CA-C-O	-5.10	115.14	120.55
1	cv	70	LYS	CA-C-N	5.10	127.11	120.28
1	cv	70	LYS	C-N-CA	5.10	127.11	120.28
1	cB	187	GLU	N-CA-C	5.10	116.53	111.07
1	cC	140	LYS	N-CA-CB	5.10	117.40	110.01
1	cF	6	LEU	N-CA-C	-5.10	101.36	108.96
1	cI	171	THR	OG1-CB-CG2	-5.10	99.10	109.30
1	cN	198	CYS	N-CA-C	5.10	116.65	111.14
1	cP	184	TRP	CB-CA-C	5.10	119.25	110.79
1	cR	204	ALA	N-CA-CB	-5.10	102.60	110.20
1	cY	14	ALA	CA-C-N	5.10	131.15	121.97
1	cY	14	ALA	C-N-CA	5.10	131.15	121.97
1	d1	82	ARG	CA-C-O	5.10	125.45	119.28
1	d5	65	ALA	CA-C-O	5.10	126.17	120.82
1	d6	106	GLY	CA-C-N	5.10	128.06	120.31
1	d6	106	GLY	C-N-CA	5.10	128.06	120.31
1	dd	133	TRP	N-CA-CB	-5.10	102.62	110.12
1	dd	189	LEU	CB-CA-C	5.10	118.97	110.81
1	dn	176	GLN	OE1-CD-NE2	5.10	127.70	122.60
1	dw	104	ILE	O-C-N	-5.10	116.91	121.91
1	dC	62	HIS	ND1-CG-CD2	5.10	111.20	106.10
1	dC	101	GLY	O-C-N	5.10	127.08	122.18
1	dF	165	VAL	CA-CB-CG1	-5.10	101.73	110.40
1	dH	195	ASN	CA-CB-CG	5.10	117.70	112.60
1	dJ	97	ARG	N-CA-CB	5.10	118.36	110.46
1	dL	145	TYR	N-CA-CB	5.10	118.47	110.46
1	dR	84	HIS	CA-C-O	-5.10	115.09	120.09
1	1n	94	GLY	CA-C-O	5.10	123.56	118.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e8	228	ALA	O-C-N	-5.10	115.53	122.36
1	ee	121	ASN	CA-C-O	-5.10	113.11	119.54
1	el	43	LEU	O-C-N	-5.10	115.81	122.39
1	ep	209	ALA	CA-C-N	5.10	129.37	121.26
1	ep	209	ALA	C-N-CA	5.10	129.37	121.26
1	eu	132	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	ew	50	GLN	N-CA-CB	5.10	117.62	110.12
1	eQ	124	ILE	N-CA-CB	5.10	118.35	111.21
1	eX	7	GLN	CA-C-O	5.10	124.43	118.77
1	eX	164	TYR	O-C-N	5.10	127.53	122.12
1	eY	37	ILE	CA-C-N	5.10	124.59	119.19
1	eY	37	ILE	C-N-CA	5.10	124.59	119.19
1	f1	213	GLU	N-CA-C	5.10	116.84	111.28
1	f4	82	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	f5	143	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	f8	160	PRO	CA-C-N	5.10	127.37	120.38
1	f8	160	PRO	C-N-CA	5.10	127.37	120.38
1	fk	220	GLY	CA-C-O	5.10	124.71	119.00
1	fo	26	VAL	CA-C-O	-5.10	114.96	120.47
1	1y	57	ASN	CA-C-O	-5.10	113.11	119.28
1	fZ	188	THR	N-CA-CB	5.10	119.11	110.49
1	g3	228	ALA	CA-C-N	5.10	128.32	120.82
1	g3	228	ALA	C-N-CA	5.10	128.32	120.82
1	g4	228	ALA	CB-CA-C	-5.10	102.52	110.94
1	0	57	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	f	79	GLU	CA-C-N	5.10	127.53	120.29
1	f	79	GLU	C-N-CA	5.10	127.53	120.29
1	l	79	GLU	N-CA-CB	5.10	117.41	110.01
1	r	207	PRO	CA-C-O	5.10	127.14	121.43
1	x	12	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	E	161	PHE	CA-C-O	5.10	125.82	120.42
1	I	7	GLN	N-CA-C	5.10	117.62	110.23
1	8	155	GLN	O-C-N	-5.10	116.23	123.01
1	9	216	THR	OG1-CB-CG2	-5.10	99.10	109.30
1	gh	54	THR	N-CA-CB	5.10	117.46	110.07
1	gn	161	PHE	CB-CA-C	5.10	119.52	110.85
1	go	160	PRO	CA-C-N	5.10	127.53	120.29
1	go	160	PRO	C-N-CA	5.10	127.53	120.29
1	gv	121	ASN	CA-CB-CG	5.10	117.70	112.60
1	gP	67	GLN	CB-CG-CD	5.10	121.27	112.60
1	h5	88	ALA	CA-C-O	5.10	126.87	121.16
1	h7	190	LEU	CA-C-O	5.10	125.25	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h8	16	SER	CA-C-N	5.10	124.71	119.56
1	h8	16	SER	C-N-CA	5.10	124.71	119.56
1	h8	90	PRO	N-CD-CG	5.10	110.84	103.20
1	hh	179	GLN	CA-C-N	5.10	127.11	120.28
1	hh	179	GLN	C-N-CA	5.10	127.11	120.28
1	hp	214	MET	CG-SD-CE	-5.10	89.69	100.90
1	hr	23	TRP	CA-C-N	5.10	127.44	120.46
1	hr	23	TRP	C-N-CA	5.10	127.44	120.46
1	hy	161	PHE	CA-CB-CG	5.10	118.90	113.80
1	hA	166	ASP	CB-CA-C	-5.10	102.65	110.81
1	hJ	66	MET	CA-C-N	5.10	127.11	120.28
1	hJ	66	MET	C-N-CA	5.10	127.11	120.28
1	hJ	126	VAL	CA-C-N	5.10	126.76	120.34
1	hJ	126	VAL	C-N-CA	5.10	126.76	120.34
1	hY	119	THR	CA-CB-CG2	5.10	119.17	110.50
1	i3	87	HIS	CB-CG-ND1	-5.10	115.05	122.70
1	i9	95	GLN	CG-CD-NE2	5.10	124.05	116.40
1	id	113	GLU	CA-C-N	5.10	127.11	120.28
1	id	113	GLU	C-N-CA	5.10	127.11	120.28
1	1Q	187	GLU	N-CA-C	5.10	116.52	111.07
1	iE	112	GLN	N-CA-C	5.10	117.50	111.33
1	iH	96	MET	N-CA-C	5.10	117.73	110.24
1	iJ	73	ILE	CA-C-O	-5.10	115.97	121.27
1	iM	135	ILE	N-CA-C	5.10	115.82	110.62
1	iT	85	PRO	N-CA-C	5.10	119.57	111.26
1	iU	50	GLN	N-CA-C	5.10	117.57	111.71
1	iU	88	ALA	CA-C-N	5.10	129.87	121.87
1	iU	88	ALA	C-N-CA	5.10	129.87	121.87
1	iY	122	PRO	CA-C-N	5.10	126.21	119.84
1	iY	122	PRO	C-N-CA	5.10	126.21	119.84
1	j1	131	LYS	CA-C-N	5.10	127.53	120.29
1	j1	131	LYS	C-N-CA	5.10	127.53	120.29
1	j3	116	GLY	CA-C-O	5.10	126.50	121.00
1	j6	84	HIS	CA-CB-CG	-5.10	108.70	113.80
1	jj	76	GLU	CA-C-O	5.10	126.14	120.63
1	jl	103	ASP	CB-CA-C	-5.10	102.85	110.90
1	jp	190	LEU	CB-CA-C	5.10	118.89	110.88
1	js	21	ASN	CB-CG-ND2	5.10	124.05	116.40
1	ju	134	ILE	CA-C-N	5.10	127.44	120.46
1	ju	134	ILE	C-N-CA	5.10	127.44	120.46
1	ju	164	TYR	N-CA-C	5.10	116.84	111.28
1	jJ	21	ASN	CA-C-N	5.10	127.36	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jJ	21	ASN	C-N-CA	5.10	127.36	120.38
1	jS	89	GLY	CA-C-N	5.10	126.21	119.84
1	jS	89	GLY	C-N-CA	5.10	126.21	119.84
1	k6	112	GLN	CA-CB-CG	5.10	124.29	114.10
1	kg	3	VAL	CG1-CB-CG2	-5.10	99.59	110.80
1	kh	18	ARG	N-CA-C	5.10	116.53	111.07
1	kq	64	ALA	O-C-N	-5.10	116.82	122.07
1	kt	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	kv	182	LYS	N-CA-CB	-5.10	102.62	110.01
1	kD	199	LYS	CA-C-N	5.10	127.07	120.44
1	kD	199	LYS	C-N-CA	5.10	127.07	120.44
1	kP	52	LEU	CA-C-N	5.10	127.11	120.28
1	kP	52	LEU	C-N-CA	5.10	127.11	120.28
1	kR	63	GLN	N-CA-C	5.10	117.57	111.71
1	kZ	139	ASN	CA-CB-CG	-5.10	107.50	112.60
1	l7	71	GLU	O-C-N	-5.10	116.72	122.12
1	l9	118	MET	N-CA-C	5.10	116.92	111.36
1	lh	155	GLN	CA-C-O	-5.10	115.06	120.92
1	ll	221	VAL	CA-C-O	5.10	125.74	120.39
1	lq	4	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	lG	218	CYS	CA-C-O	5.10	127.80	120.51
1	lQ	89	GLY	CA-C-N	5.10	125.09	119.89
1	lQ	89	GLY	C-N-CA	5.10	125.09	119.89
1	2e	200	THR	CA-C-O	5.10	125.83	119.97
1	2s	215	MET	CA-C-N	5.10	127.07	120.44
1	2s	215	MET	C-N-CA	5.10	127.07	120.44
1	2v	157	PRO	CA-C-N	5.10	130.47	122.11
1	2v	157	PRO	C-N-CA	5.10	130.47	122.11
1	2x	164	TYR	O-C-N	-5.10	116.72	122.12
1	2K	123	PRO	CB-CA-C	-5.10	104.87	111.39
1	2P	190	LEU	N-CA-C	5.10	116.53	111.07
1	2W	167	ARG	CG-CD-NE	-5.10	100.79	112.00
1	3d	222	GLY	CA-C-N	5.10	129.87	121.87
1	3d	222	GLY	C-N-CA	5.10	129.87	121.87
1	3e	184	TRP	CD2-CE2-CZ2	-5.10	117.30	122.40
1	3e	199	LYS	CA-C-O	-5.10	115.45	120.90
1	3j	32	PHE	CA-CB-CG	-5.10	108.70	113.80
1	3o	104	ILE	N-CA-C	5.10	115.87	110.72
1	3x	154	ARG	N-CA-CB	5.10	120.17	111.66
1	3A	199	LYS	N-CA-C	5.10	116.84	111.28
1	3E	165	VAL	CA-C-N	5.10	127.36	120.38
1	3E	165	VAL	C-N-CA	5.10	127.36	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3F	69	LEU	CA-C-N	5.10	127.11	120.28
1	3F	69	LEU	O-C-N	-5.10	116.72	122.12
1	3F	69	LEU	C-N-CA	5.10	127.11	120.28
1	3J	94	GLY	CA-C-N	5.10	130.16	121.29
1	3J	94	GLY	C-N-CA	5.10	130.16	121.29
1	3Q	128	GLU	N-CA-CB	5.10	117.61	110.12
1	43	3	VAL	CA-C-O	5.10	126.38	120.67
1	43	152	ASP	O-C-N	-5.10	116.22	122.34
1	48	22	ALA	CA-C-N	5.10	127.53	120.29
1	48	22	ALA	C-N-CA	5.10	127.53	120.29
1	4e	168	PHE	N-CA-C	5.10	116.84	111.28
1	4l	212	GLU	CA-C-O	-5.10	115.12	120.63
1	4w	140	LYS	CA-C-N	5.10	127.66	120.42
1	4w	140	LYS	C-N-CA	5.10	127.66	120.42
1	4x	115	ILE	O-C-N	-5.10	116.72	121.87
1	4H	115	ILE	N-CA-C	5.10	115.82	110.62
1	4R	87	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	4S	26	VAL	N-CA-CB	5.10	118.23	110.58
1	4W	164	TYR	O-C-N	-5.10	116.72	122.12
1	4W	206	GLY	CA-C-N	5.10	125.10	119.90
1	4W	206	GLY	C-N-CA	5.10	125.10	119.90
1	4X	162	ARG	N-CA-C	5.10	115.55	108.00
1	4Z	212	GLU	CA-C-N	5.10	127.42	120.54
1	4Z	212	GLU	C-N-CA	5.10	127.42	120.54
1	58	187	GLU	N-CA-CB	-5.10	102.66	110.26
1	5p	181	VAL	CA-C-O	5.10	126.25	120.95
1	5x	215	MET	O-C-N	-5.10	115.99	122.26
1	5I	100	ARG	CG-CD-NE	-5.10	100.79	112.00
1	5L	198	CYS	N-CA-C	5.10	117.62	111.40
1	5Y	187	GLU	N-CA-C	5.10	116.52	111.07
1	5Z	226	HIS	CB-CG-ND1	5.10	130.35	122.70
1	60	82	ARG	CD-NE-CZ	5.10	131.54	124.40
1	67	141	ILE	CA-C-N	5.10	127.72	120.53
1	67	141	ILE	C-N-CA	5.10	127.72	120.53
1	6a	12	HIS	N-CA-C	5.10	117.61	109.96
1	6e	197	ASP	CA-C-O	5.10	126.17	120.82
1	6o	96	MET	CB-CA-C	-5.10	100.91	109.83
1	75	97	ARG	N-CA-C	-5.10	103.67	110.55
1	7c	195	ASN	CA-C-N	5.10	126.21	119.84
1	7c	195	ASN	C-N-CA	5.10	126.21	119.84
1	7p	92	GLU	CA-C-O	-5.10	115.65	120.34
1	7v	49	PRO	CB-CA-C	5.10	119.97	111.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7z	106	GLY	CA-C-N	5.10	127.07	120.44
1	7z	106	GLY	C-N-CA	5.10	127.07	120.44
1	7A	38	PRO	N-CD-CG	5.10	110.85	103.20
1	7A	198	CYS	N-CA-C	5.10	117.73	111.82
1	7E	126	VAL	CA-C-N	5.10	126.69	120.22
1	7E	126	VAL	C-N-CA	5.10	126.69	120.22
1	7N	176	GLN	N-CA-CB	5.10	120.41	112.25
1	7Q	227	LYS	N-CA-C	5.10	119.38	112.04
1	7Y	50	GLN	N-CA-CB	5.10	117.61	110.12
1	7Y	158	LYS	N-CA-C	5.10	119.59	113.17
1	88	224	PRO	CA-C-N	5.10	130.69	121.92
1	88	224	PRO	C-N-CA	5.10	130.69	121.92
1	8h	175	GLU	CA-C-N	5.10	129.85	121.39
1	8h	175	GLU	C-N-CA	5.10	129.85	121.39
1	8l	16	SER	N-CA-C	-5.10	103.76	110.39
1	8t	71	GLU	CA-C-O	5.10	125.82	120.42
1	8x	146	SER	N-CA-C	5.10	116.93	109.84
1	8A	138	LEU	CA-C-N	5.10	127.36	120.38
1	8A	138	LEU	C-N-CA	5.10	127.36	120.38
1	8E	39	MET	CA-C-N	5.10	127.07	120.44
1	8E	39	MET	C-N-CA	5.10	127.07	120.44
1	8G	122	PRO	CA-C-N	5.10	125.03	119.78
1	8G	122	PRO	C-N-CA	5.10	125.03	119.78
1	8P	133	TRP	CB-CG-CD1	5.10	134.55	126.90
1	8Y	26	VAL	N-CA-CB	5.10	117.47	110.54
1	9g	216	THR	N-CA-CB	5.10	118.03	110.49
1	9h	110	THR	CA-C-N	5.10	127.11	120.28
1	9h	110	THR	C-N-CA	5.10	127.11	120.28
1	9i	181	VAL	O-C-N	5.10	126.81	121.87
1	9j	69	LEU	CA-C-O	5.10	126.17	120.82
1	9q	13	GLN	O-C-N	-5.10	117.14	123.36
1	9x	117	TRP	CA-C-O	-5.10	114.11	119.97
1	9A	200	THR	N-CA-C	5.10	116.84	111.28
1	9O	208	ALA	O-C-N	-5.10	115.61	122.19
1	9R	102	SER	N-CA-C	5.10	117.57	111.71
1	9T	77	ALA	N-CA-C	5.10	116.53	111.07
1	9V	108	THR	O-C-N	-5.10	116.70	122.10
1	Z	38	PRO	N-CA-C	-5.10	107.49	113.86
1	a2	124	ILE	O-C-N	-5.10	118.16	121.37
1	ai	152	ASP	CA-C-O	-5.10	113.11	119.18
1	11	22	ALA	CA-C-N	5.10	127.11	120.28
1	11	22	ALA	C-N-CA	5.10	127.11	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ar	80	TRP	CE2-CD2-CE3	5.10	123.90	118.80
1	as	12	HIS	N-CA-C	5.10	117.62	110.23
1	at	89	GLY	CA-C-O	-5.10	114.23	121.52
1	12	217	ALA	CA-C-O	5.10	126.73	120.92
1	av	89	GLY	O-C-N	5.10	126.87	121.77
1	aI	210	THR	CA-CB-OG1	5.10	117.25	109.60
1	aL	92	GLU	O-C-N	-5.10	115.71	120.55
1	aL	229	ARG	N-CA-C	5.10	119.21	112.89
1	aN	106	GLY	O-C-N	-5.10	115.57	122.35
1	15	186	THR	N-CA-C	-5.10	107.01	113.18
1	b3	211	LEU	O-C-N	-5.10	116.72	122.12
1	ba	158	LYS	CA-C-N	5.10	127.48	120.39
1	ba	158	LYS	C-N-CA	5.10	127.48	120.39
1	bb	112	GLN	OE1-CD-NE2	5.10	127.70	122.60
1	bg	75	GLU	CA-C-O	-5.10	115.45	120.70
1	bg	168	PHE	O-C-N	-5.10	116.82	122.07
1	bh	128	GLU	CA-C-O	-5.10	115.02	120.42
1	bk	121	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	bs	221	VAL	CA-C-O	5.10	125.13	119.42
1	bt	155	GLN	CB-CA-C	5.10	118.92	109.54
1	bA	32	PHE	CA-C-O	5.10	126.30	120.54
1	bB	226	HIS	O-C-N	-5.10	117.25	123.27
1	bG	113	GLU	CB-CA-C	-5.10	102.88	110.88
1	bT	193	ASN	CA-C-O	5.10	125.97	119.95
1	bV	129	ILE	O-C-N	-5.10	116.92	121.87
1	c5	138	LEU	CA-C-N	5.10	127.07	120.44
1	c5	138	LEU	C-N-CA	5.10	127.07	120.44
1	cl	96	MET	N-CA-C	5.10	117.26	110.53
1	cm	171	THR	O-C-N	-5.10	116.34	122.15
1	cD	126	VAL	CA-C-O	5.10	126.25	120.95
1	cG	205	LEU	CA-C-O	5.10	125.60	119.59
1	cI	115	ILE	N-CA-CB	5.10	117.47	110.54
1	cL	103	ASP	N-CA-C	5.10	116.53	111.07
1	cS	160	PRO	CB-CA-C	5.10	119.97	111.56
1	cS	204	ALA	CA-C-N	5.10	127.07	120.44
1	cS	204	ALA	C-N-CA	5.10	127.07	120.44
1	cX	212	GLU	CA-CB-CG	5.10	124.30	114.10
1	d3	21	ASN	OD1-CG-ND2	5.10	127.70	122.60
1	d3	153	ILE	N-CA-CB	-5.10	105.24	110.95
1	d4	51	ASP	CA-CB-CG	-5.10	107.50	112.60
1	db	107	THR	N-CA-CB	5.10	119.21	110.34
1	dc	41	SER	N-CA-CB	5.10	117.61	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1j	218	CYS	CA-C-O	5.10	127.80	120.51
1	dl	198	CYS	N-CA-CB	5.10	117.35	109.91
1	dt	169	TYR	CB-CG-CD1	5.10	128.44	120.80
1	dw	199	LYS	CA-C-N	5.10	127.11	120.28
1	dw	199	LYS	C-N-CA	5.10	127.11	120.28
1	dy	171	THR	N-CA-CB	5.10	117.61	110.12
1	1m	190	LEU	CA-C-O	5.10	125.95	120.55
1	dK	62	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	dX	18	ARG	CA-C-N	5.10	127.53	120.29
1	dX	18	ARG	C-N-CA	5.10	127.53	120.29
1	dX	51	ASP	N-CA-C	5.10	116.92	111.36
1	el	86	VAL	N-CA-C	5.10	116.43	110.62
1	et	10	MET	CG-SD-CE	-5.10	89.69	100.90
1	ey	18	ARG	CA-C-N	5.10	127.37	120.44
1	ey	18	ARG	C-N-CA	5.10	127.37	120.44
1	eC	49	PRO	CA-C-N	5.10	127.62	120.28
1	eC	49	PRO	C-N-CA	5.10	127.62	120.28
1	eO	108	THR	CA-CB-OG1	5.10	117.25	109.60
1	eO	196	PRO	N-CA-C	5.10	121.34	113.75
1	eQ	197	ASP	N-CA-C	-5.10	105.42	111.69
1	eY	1	PRO	CA-C-N	5.10	127.33	120.50
1	eY	1	PRO	C-N-CA	5.10	127.33	120.50
1	eY	218	CYS	O-C-N	-5.10	115.81	122.59
1	f2	84	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	f6	57	ASN	N-CA-C	-5.10	106.91	112.72
1	fa	161	PHE	CA-CB-CG	-5.10	108.70	113.80
1	fn	2	ILE	CB-CA-C	5.10	118.45	111.31
1	1x	154	ARG	CG-CD-NE	-5.10	100.78	112.00
1	fz	110	THR	O-C-N	-5.10	117.23	122.94
1	fA	37	ILE	N-CA-C	5.10	118.47	112.35
1	fF	5	ASN	O-C-N	-5.10	117.14	123.36
1	fL	195	ASN	N-CA-CB	-5.10	102.67	110.11
1	fR	72	THR	N-CA-CB	5.10	117.40	110.01
1	g6	226	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
1	c	171	THR	CA-C-N	5.10	127.07	120.44
1	c	171	THR	C-N-CA	5.10	127.07	120.44
1	h	93	PRO	N-CA-CB	5.10	107.60	103.32
1	o	70	LYS	N-CA-CB	5.10	117.40	110.01
1	H	120	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	6	142	VAL	N-CA-CB	-5.10	104.59	110.55
1	7	211	LEU	O-C-N	-5.10	116.00	122.27
1	gk	79	GLU	CA-CB-CG	5.10	124.29	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gp	114	GLN	O-C-N	-5.10	116.72	122.12
1	gy	180	GLU	CA-C-N	5.10	127.44	120.46
1	gy	180	GLU	C-N-CA	5.10	127.44	120.46
1	1E	124	ILE	CA-CB-CG2	-5.10	101.84	110.50
1	gH	211	LEU	CA-C-O	-5.10	115.02	120.42
1	gZ	185	MET	CA-C-N	5.10	127.11	120.28
1	gZ	185	MET	C-N-CA	5.10	127.11	120.28
1	hd	91	ILE	CB-CA-C	-5.10	103.74	111.33
1	hf	126	VAL	N-CA-C	5.10	115.82	110.62
1	hf	209	ALA	N-CA-CB	-5.10	102.70	110.45
1	hg	225	GLY	CA-C-N	5.10	128.11	120.87
1	hg	225	GLY	C-N-CA	5.10	128.11	120.87
1	hC	192	GLN	N-CA-C	5.10	116.83	111.28
1	hT	135	ILE	CA-C-N	5.10	127.11	120.28
1	hT	135	ILE	C-N-CA	5.10	127.11	120.28
1	i8	191	VAL	O-C-N	-5.10	116.04	121.80
1	if	153	ILE	N-CA-C	5.10	116.97	109.63
1	im	195	ASN	CB-CA-C	5.10	117.57	109.52
1	ip	3	VAL	N-CA-C	-5.10	101.04	108.17
1	iA	184	TRP	N-CA-C	5.10	116.52	111.07
1	iG	16	SER	O-C-N	-5.10	117.20	121.38
1	iP	78	ALA	N-CA-CB	-5.10	102.68	110.07
1	iU	165	VAL	CA-C-N	5.10	127.53	120.29
1	iU	165	VAL	C-N-CA	5.10	127.53	120.29
1	iZ	88	ALA	CA-C-N	5.10	129.87	121.87
1	iZ	88	ALA	C-N-CA	5.10	129.87	121.87
1	jd	132	ARG	NH1-CZ-NH2	-5.10	112.67	119.30
1	jD	32	PHE	CA-CB-CG	-5.10	108.70	113.80
1	jS	183	ASN	O-C-N	-5.10	116.72	122.12
1	jV	171	THR	N-CA-C	5.10	116.52	111.07
1	k8	113	GLU	CA-C-O	5.10	126.35	120.90
1	kc	2	ILE	CB-CA-C	-5.10	104.00	110.98
1	kl	204	ALA	O-C-N	-5.10	116.79	122.09
1	kn	150	ILE	CA-C-N	5.10	127.62	120.28
1	kn	150	ILE	C-N-CA	5.10	127.62	120.28
1	ku	188	THR	CA-C-O	5.10	123.30	119.68
1	kC	5	ASN	O-C-N	-5.10	115.81	122.59
1	kM	103	ASP	N-CA-C	-5.10	105.42	111.69
1	kN	56	LEU	CA-C-O	5.10	125.80	119.79
1	kY	87	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	ld	132	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	lA	161	PHE	N-CA-C	-5.10	105.72	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lD	214	MET	CA-C-O	-5.10	115.02	120.42
1	lH	108	THR	CA-C-N	5.10	129.18	122.30
1	lH	108	THR	C-N-CA	5.10	129.18	122.30
1	2y	126	VAL	N-CA-C	5.10	117.46	111.09
1	2C	163	ASP	O-C-N	5.10	127.52	122.12
1	2E	118	MET	CA-C-N	5.10	130.80	122.65
1	2E	118	MET	C-N-CA	5.10	130.80	122.65
1	2H	179	GLN	O-C-N	-5.10	116.82	122.07
1	2Z	90	PRO	O-C-N	-5.10	116.52	122.99
1	35	62	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	39	140	LYS	CA-C-N	5.10	126.98	120.56
1	39	140	LYS	C-N-CA	5.10	126.98	120.56
1	3e	144	MET	CA-C-O	5.10	125.86	120.10
1	3l	201	ILE	N-CA-C	5.10	115.87	110.72
1	3u	211	LEU	CA-C-N	5.10	127.36	120.38
1	3u	211	LEU	C-N-CA	5.10	127.36	120.38
1	3W	62	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	4w	7	GLN	CG-CD-OE1	-5.10	110.61	120.80
1	4x	162	ARG	CG-CD-NE	-5.10	100.79	112.00
1	4I	55	MET	N-CA-C	5.10	116.64	111.14
1	50	220	GLY	CA-C-N	-5.10	116.03	123.06
1	50	220	GLY	C-N-CA	-5.10	116.03	123.06
1	53	217	ALA	CA-C-O	-5.10	114.95	120.81
1	58	97	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	5l	40	PHE	CA-C-O	5.10	126.35	120.90
1	6b	91	ILE	CA-C-O	-5.10	116.34	121.59
1	6c	163	ASP	N-CA-CB	5.10	117.40	110.01
1	6h	185	MET	N-CA-C	5.10	116.83	111.28
1	6o	9	GLN	CA-C-N	5.10	131.27	121.54
1	6o	9	GLN	C-N-CA	5.10	131.27	121.54
1	6r	75	GLU	O-C-N	-5.10	116.72	122.12
1	6u	120	HIS	CA-C-O	-5.10	115.93	121.89
1	6J	194	ALA	CA-C-N	5.10	128.40	120.60
1	6J	194	ALA	C-N-CA	5.10	128.40	120.60
1	6L	160	PRO	N-CA-CB	-5.10	97.90	103.25
1	6Y	154	ARG	NE-CZ-NH1	5.10	126.60	121.50
1	74	86	VAL	N-CA-C	5.10	114.95	108.12
1	75	21	ASN	CB-CA-C	5.10	118.88	110.88
1	7r	49	PRO	CA-C-N	5.10	127.11	120.28
1	7r	49	PRO	C-N-CA	5.10	127.11	120.28
1	7L	153	ILE	CA-C-O	5.10	126.84	121.59
1	7W	60	GLY	O-C-N	-5.10	117.30	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	80	187	GLU	CA-C-O	5.10	126.00	120.55
1	88	115	ILE	CA-CB-CG2	5.10	119.16	110.50
1	88	156	GLY	CA-C-O	5.10	127.40	122.46
1	8f	134	ILE	CA-CB-CG1	-5.10	101.74	110.40
1	8l	181	VAL	N-CA-C	5.10	115.32	110.53
1	8E	42	ALA	N-CA-CB	-5.10	102.35	109.94
1	8H	226	HIS	CA-C-O	5.10	125.38	119.32
1	8I	13	GLN	OE1-CD-NE2	-5.10	117.50	122.60
1	95	72	THR	N-CA-C	5.10	116.52	111.07
1	99	183	ASN	OD1-CG-ND2	-5.10	117.50	122.60
1	9b	148	THR	N-CA-CB	5.10	120.31	111.39
1	9u	97	ARG	NE-CZ-NH2	-5.10	114.61	119.20
1	9v	51	ASP	CA-CB-CG	-5.10	107.50	112.60
1	9H	29	GLU	N-CA-C	5.10	116.64	111.14
1	9H	190	LEU	N-CA-C	5.10	116.83	111.28
1	9M	133	TRP	CA-C-O	-5.10	115.02	120.42
1	9X	133	TRP	CD2-CE3-CZ3	5.10	125.22	118.60
1	a2	229	ARG	CD-NE-CZ	5.10	131.53	124.40
1	a7	197	ASP	CA-CB-CG	-5.10	107.50	112.60
1	a9	127	GLY	O-C-N	-5.10	117.25	122.19
1	al	30	LYS	CA-C-N	5.10	127.42	120.54
1	al	30	LYS	C-N-CA	5.10	127.42	120.54
1	ap	69	LEU	N-CA-CB	-5.10	102.68	110.07
1	au	36	VAL	CA-C-O	5.10	127.15	120.78
1	av	139	ASN	N-CA-C	5.10	117.50	111.33
1	aC	89	GLY	O-C-N	-5.10	116.67	121.77
1	aP	138	LEU	CA-C-N	5.10	127.42	120.54
1	aP	138	LEU	C-N-CA	5.10	127.42	120.54
1	aW	43	LEU	O-C-N	-5.10	116.00	122.27
1	b3	43	LEU	CA-C-O	5.10	125.63	119.11
1	bf	226	HIS	ND1-CE1-NE2	5.10	113.50	108.40
1	bh	4	GLN	CG-CD-OE1	5.10	130.99	120.80
1	bm	162	ARG	CG-CD-NE	-5.10	100.79	112.00
1	18	120	HIS	CG-CD2-NE2	5.10	112.30	107.20
1	bt	153	ILE	CA-C-O	-5.10	116.34	121.59
1	bw	53	ASN	CA-C-O	5.10	126.17	120.82
1	bE	202	LEU	N-CA-C	5.10	116.83	111.28
1	bG	53	ASN	O-C-N	5.10	127.52	122.12
1	cl	165	VAL	N-CA-CB	5.10	116.17	110.51
1	cm	50	GLN	N-CA-C	5.10	116.83	111.28
1	cr	70	LYS	O-C-N	-5.10	116.72	122.12
1	cs	180	GLU	N-CA-C	5.10	117.22	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cA	47	ALA	N-CA-C	5.10	117.62	110.23
1	cB	79	GLU	O-C-N	-5.10	116.72	122.12
1	cC	223	GLY	CA-C-N	5.10	125.38	119.93
1	cC	223	GLY	C-N-CA	5.10	125.38	119.93
1	cU	226	HIS	CA-CB-CG	-5.10	108.70	113.80
1	1l	107	THR	CA-CB-OG1	5.10	117.24	109.60
1	dJ	187	GLU	N-CA-C	5.10	118.65	112.23
1	dK	13	GLN	O-C-N	-5.10	117.57	123.33
1	dO	108	THR	CA-C-O	5.10	125.19	119.18
1	dR	140	LYS	CA-C-O	-5.10	115.15	120.55
1	e0	171	THR	CA-C-N	5.10	127.62	120.28
1	e0	171	THR	C-N-CA	5.10	127.62	120.28
1	en	198	CYS	CA-C-O	5.10	125.95	120.55
1	ez	73	ILE	N-CA-CB	5.10	117.47	110.54
1	eQ	216	THR	N-CA-CB	5.10	118.46	110.46
1	eV	142	VAL	CA-CB-CG2	-5.10	101.74	110.40
1	eX	204	ALA	N-CA-CB	-5.10	102.68	110.07
1	f2	164	TYR	N-CA-C	5.10	116.83	111.28
1	fb	130	TYR	CA-C-N	5.10	127.06	120.44
1	fb	130	TYR	C-N-CA	5.10	127.06	120.44
1	fo	171	THR	O-C-N	-5.10	116.34	122.15
1	1y	226	HIS	CA-CB-CG	5.10	118.90	113.80
1	fK	125	PRO	CA-C-N	5.10	127.17	120.60
1	fK	125	PRO	C-N-CA	5.10	127.17	120.60
1	fO	18	ARG	CA-CB-CG	5.10	124.29	114.10
1	fV	136	LEU	CA-C-O	5.10	126.13	120.63
1	g7	21	ASN	CA-C-N	5.10	127.38	120.65
1	g7	21	ASN	C-N-CA	5.10	127.38	120.65
1	a	171	THR	N-CA-CB	5.10	117.46	110.07
1	n	87	HIS	CA-C-N	5.10	128.44	120.75
1	n	87	HIS	C-N-CA	5.10	128.44	120.75
1	C	59	VAL	CA-CB-CG1	-5.10	101.74	110.40
1	ga	21	ASN	CA-C-O	5.09	126.17	120.82
1	gd	9	GLN	N-CA-CB	-5.09	102.71	110.45
1	gd	174	ALA	CA-C-N	5.09	128.10	120.87
1	gd	174	ALA	C-N-CA	5.09	128.10	120.87
1	gl	153	ILE	N-CA-CB	5.09	116.58	110.31
1	gm	113	GLU	CA-C-O	5.09	125.95	120.55
1	go	145	TYR	N-CA-C	5.09	119.48	113.16
1	gw	55	MET	N-CA-C	5.09	116.83	111.28
1	gw	156	GLY	O-C-N	-5.09	117.83	122.42
1	gC	187	GLU	CA-CB-CG	5.09	124.29	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gG	143	ARG	NE-CZ-NH2	5.09	123.78	119.20
1	gR	213	GLU	O-C-N	-5.09	116.72	122.12
1	h7	106	GLY	CA-C-N	5.09	127.11	120.28
1	h7	106	GLY	C-N-CA	5.09	127.11	120.28
1	hn	136	LEU	CB-CA-C	-5.09	102.88	110.88
1	hy	210	THR	CA-C-N	5.09	127.06	120.44
1	hy	210	THR	C-N-CA	5.09	127.06	120.44
1	hQ	183	ASN	CA-C-N	5.09	127.11	120.28
1	hQ	183	ASN	C-N-CA	5.09	127.11	120.28
1	hR	114	GLN	CA-C-O	-5.09	115.13	120.63
1	hS	154	ARG	N-CA-C	5.09	116.55	108.96
1	hT	114	GLN	CA-C-N	5.09	127.44	120.46
1	hT	114	GLN	C-N-CA	5.09	127.44	120.46
1	hU	79	GLU	CA-C-O	5.09	125.95	120.55
1	hV	25	LYS	CA-C-O	5.09	125.95	120.70
1	i3	33	SER	O-C-N	-5.09	115.72	121.43
1	1O	23	TRP	N-CA-C	5.09	116.64	111.14
1	ii	143	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	ii	182	LYS	CA-C-O	-5.09	114.11	119.97
1	ij	4	GLN	CB-CG-CD	5.09	121.26	112.60
1	ik	14	ALA	O-C-N	-5.09	116.75	122.97
1	iv	128	GLU	N-CA-C	5.09	116.83	111.28
1	iv	211	LEU	O-C-N	-5.09	116.72	122.12
1	iC	159	GLU	O-C-N	-5.09	116.98	121.31
1	iH	5	ASN	CA-CB-CG	-5.09	107.51	112.60
1	iO	52	LEU	N-CA-C	5.09	116.91	111.36
1	iR	82	ARG	CA-C-N	5.09	127.11	120.28
1	iR	82	ARG	C-N-CA	5.09	127.11	120.28
1	j0	212	GLU	CA-C-N	5.09	127.11	120.28
1	j0	212	GLU	C-N-CA	5.09	127.11	120.28
1	1T	69	LEU	CB-CA-C	5.09	119.25	110.79
1	j3	4	GLN	CB-CG-CD	5.09	121.26	112.60
1	ja	229	ARG	CB-CA-C	5.09	120.39	111.06
1	jc	103	ASP	N-CA-CB	-5.09	102.62	110.16
1	1V	64	ALA	CA-C-N	5.09	127.06	120.44
1	1V	64	ALA	C-N-CA	5.09	127.06	120.44
1	jt	24	VAL	O-C-N	-5.09	116.47	122.07
1	jv	150	ILE	CA-C-O	5.09	126.20	119.53
1	jH	120	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	jM	66	MET	O-C-N	-5.09	116.72	122.12
1	jX	165	VAL	CA-C-N	5.09	127.38	120.65
1	jX	165	VAL	C-N-CA	5.09	127.38	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k0	101	GLY	N-CA-C	5.09	119.05	112.83
1	k4	171	THR	OG1-CB-CG2	-5.09	99.11	109.30
1	k7	180	GLU	N-CA-C	5.09	117.22	111.11
1	k8	156	GLY	CA-C-N	5.09	125.78	120.12
1	k8	156	GLY	C-N-CA	5.09	125.78	120.12
1	kg	143	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	kk	86	VAL	N-CA-CB	5.09	116.47	110.82
1	km	79	GLU	CA-C-N	5.09	127.11	120.28
1	km	79	GLU	C-N-CA	5.09	127.11	120.28
1	kn	204	ALA	O-C-N	-5.09	116.82	122.07
1	ks	170	LYS	N-CA-C	5.09	116.52	111.07
1	kt	84	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	22	122	PRO	N-CD-CG	5.09	109.91	103.80
1	kP	33	SER	N-CA-C	-5.09	103.55	108.13
1	kV	97	ARG	O-C-N	-5.09	117.44	123.25
1	kY	10	MET	CA-C-O	5.09	125.19	119.18
1	l3	182	LYS	N-CA-C	5.09	116.52	111.07
1	ld	88	ALA	N-CA-CB	5.09	117.36	110.38
1	ld	148	THR	N-CA-CB	5.09	118.17	109.87
1	lg	141	ILE	N-CA-C	5.09	115.87	110.72
1	lm	91	ILE	CA-C-N	5.09	127.90	120.51
1	lm	91	ILE	C-N-CA	5.09	127.90	120.51
1	lJ	169	TYR	CB-CG-CD2	5.09	128.44	120.80
1	lL	115	ILE	O-C-N	-5.09	116.92	121.91
1	2q	55	MET	N-CA-C	5.09	117.22	111.11
1	2t	159	GLU	CA-C-O	-5.09	115.23	119.76
1	2u	225	GLY	O-C-N	-5.09	116.08	122.70
1	2w	163	ASP	CA-CB-CG	5.09	117.69	112.60
1	2I	202	LEU	N-CA-CB	5.09	117.61	110.12
1	2K	87	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	2S	10	MET	CA-C-N	5.09	127.99	120.91
1	2S	10	MET	C-N-CA	5.09	127.99	120.91
1	2X	117	TRP	CA-C-O	-5.09	114.11	119.97
1	30	218	CYS	N-CA-C	-5.09	105.91	113.40
1	36	13	GLN	CA-C-N	5.09	128.94	120.94
1	36	13	GLN	C-N-CA	5.09	128.94	120.94
1	36	143	ARG	N-CA-C	5.09	117.49	111.33
1	3g	2	ILE	CA-C-O	5.09	126.66	120.85
1	3j	176	GLN	N-CA-C	5.09	118.35	111.17
1	3B	164	TYR	CA-C-N	5.09	127.08	120.56
1	3B	164	TYR	C-N-CA	5.09	127.08	120.56
1	3N	143	ARG	O-C-N	5.09	127.52	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4h	22	ALA	CA-C-N	5.09	127.06	120.44
1	4h	22	ALA	C-N-CA	5.09	127.06	120.44
1	4l	214	MET	CA-CB-CG	5.09	124.29	114.10
1	4t	12	HIS	ND1-CE1-NE2	5.09	113.50	108.40
1	4y	191	VAL	CA-C-N	5.09	127.11	120.28
1	4y	191	VAL	C-N-CA	5.09	127.11	120.28
1	4z	224	PRO	O-C-N	5.09	129.52	122.64
1	4G	98	GLU	O-C-N	-5.09	116.19	121.28
1	4J	229	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	4L	162	ARG	N-CA-CB	-5.09	102.09	110.14
1	4M	80	TRP	CG-CD2-CE3	5.09	138.99	133.90
1	4N	93	PRO	CA-C-N	5.09	131.39	121.41
1	4N	93	PRO	C-N-CA	5.09	131.39	121.41
1	4N	133	TRP	CA-C-O	-5.09	115.15	120.55
1	4O	73	ILE	O-C-N	-5.09	116.93	121.87
1	4X	39	MET	CA-C-N	5.09	127.06	120.44
1	4X	39	MET	C-N-CA	5.09	127.06	120.44
1	4X	135	ILE	O-C-N	-5.09	116.92	121.91
1	57	226	HIS	CA-C-N	5.09	129.48	120.87
1	57	226	HIS	C-N-CA	5.09	129.48	120.87
1	5b	150	ILE	CA-CB-CG1	5.09	119.06	110.40
1	5c	13	GLN	OE1-CD-NE2	5.09	127.69	122.60
1	5i	38	PRO	N-CA-C	-5.09	106.90	113.57
1	5r	179	GLN	N-CA-C	5.09	116.83	111.28
1	5u	227	LYS	N-CA-C	5.09	117.42	110.24
1	5E	143	ARG	N-CA-C	5.09	117.57	111.71
1	5F	216	THR	CA-CB-OG1	5.09	117.24	109.60
1	5H	115	ILE	N-CA-C	5.09	115.82	110.62
1	6e	69	LEU	CA-C-O	-5.09	115.47	120.82
1	6e	188	THR	O-C-N	-5.09	116.00	122.27
1	6E	167	ARG	CA-C-O	5.09	126.35	120.90
1	6N	134	ILE	CA-C-N	5.09	127.44	120.46
1	6N	134	ILE	C-N-CA	5.09	127.44	120.46
1	6Q	170	LYS	N-CA-C	5.09	116.52	111.07
1	6U	217	ALA	CB-CA-C	-5.09	101.45	109.80
1	6Z	163	ASP	CA-C-O	5.09	125.56	119.60
1	76	109	SER	O-C-N	-5.09	117.24	123.30
1	7a	75	GLU	N-CA-C	5.09	116.83	111.28
1	7c	132	ARG	CB-CG-CD	5.09	123.02	111.30
1	7x	77	ALA	CA-C-N	5.09	127.11	120.28
1	7x	77	ALA	C-N-CA	5.09	127.11	120.28
1	7x	164	TYR	O-C-N	-5.09	116.72	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7y	156	GLY	CA-C-N	5.09	124.59	119.19
1	7y	156	GLY	C-N-CA	5.09	124.59	119.19
1	7E	94	GLY	CA-C-N	5.09	131.27	121.54
1	7E	94	GLY	C-N-CA	5.09	131.27	121.54
1	7J	144	MET	O-C-N	-5.09	116.72	122.12
1	7K	120	HIS	ND1-CE1-NE2	5.09	113.50	108.40
1	7Y	133	TRP	CD2-CE2-CZ2	-5.09	117.31	122.40
1	86	81	ASP	CA-C-N	5.09	127.11	120.28
1	86	81	ASP	C-N-CA	5.09	127.11	120.28
1	86	100	ARG	O-C-N	-5.09	116.38	122.65
1	8b	30	LYS	N-CA-C	5.09	120.13	113.30
1	8b	92	GLU	CA-C-N	5.09	126.21	119.84
1	8b	92	GLU	C-N-CA	5.09	126.21	119.84
1	8n	198	CYS	N-CA-CB	5.09	117.40	110.01
1	8H	203	LYS	O-C-N	-5.09	116.72	122.12
1	8K	58	THR	CA-C-O	5.09	125.83	119.97
1	8L	164	TYR	CD1-CG-CD2	-5.09	110.46	118.10
1	8M	125	PRO	CA-C-O	-5.09	116.04	123.07
1	8M	227	LYS	O-C-N	-5.09	116.08	122.24
1	8T	62	HIS	N-CA-C	5.09	118.62	111.74
1	94	59	VAL	CB-CA-C	5.09	118.92	111.33
1	9l	182	LYS	O-C-N	5.09	127.52	122.12
1	9n	6	LEU	CA-C-N	5.09	129.42	122.34
1	9n	6	LEU	C-N-CA	5.09	129.42	122.34
1	9s	164	TYR	CA-C-O	-5.09	115.45	120.90
1	9A	126	VAL	CA-C-O	5.09	126.25	120.95
1	9G	142	VAL	N-CA-C	5.09	115.31	110.42
1	9G	201	ILE	O-C-N	-5.09	116.93	121.87
1	9K	121	ASN	O-C-N	-5.09	115.13	121.70
1	9M	226	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	9Q	84	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	9U	116	GLY	N-CA-C	5.09	120.20	113.37
1	9Y	84	HIS	CB-CG-ND1	5.09	130.34	122.70
1	af	146	SER	CA-C-N	5.09	126.21	119.84
1	af	146	SER	C-N-CA	5.09	126.21	119.84
1	ah	14	ALA	CA-C-N	5.09	127.41	120.63
1	ah	14	ALA	C-N-CA	5.09	127.41	120.63
1	an	90	PRO	CA-C-N	5.09	128.74	122.37
1	an	90	PRO	C-N-CA	5.09	128.74	122.37
1	ap	2	ILE	CA-CB-CG1	5.09	119.06	110.40
1	aq	63	GLN	CA-C-O	-5.09	115.02	120.42
1	aq	120	HIS	CE1-NE2-CD2	-5.09	103.91	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aA	155	GLN	CA-C-N	5.09	129.87	121.87
1	aA	155	GLN	C-N-CA	5.09	129.87	121.87
1	aD	217	ALA	CA-C-O	-5.09	116.08	121.94
1	aG	109	SER	O-C-N	-5.09	115.94	122.72
1	aK	19	THR	OG1-CB-CG2	-5.09	99.11	109.30
1	bb	174	ALA	N-CA-CB	-5.09	102.46	110.46
1	bc	23	TRP	CA-C-O	-5.09	115.15	120.55
1	bd	87	HIS	CA-C-O	-5.09	114.58	120.49
1	17	164	TYR	O-C-N	5.09	127.32	122.07
1	18	143	ARG	CA-C-N	5.09	127.11	120.28
1	18	143	ARG	C-N-CA	5.09	127.11	120.28
1	bu	15	ILE	N-CA-C	5.09	115.67	109.30
1	bz	27	VAL	CB-CA-C	5.09	118.49	111.97
1	bH	204	ALA	CB-CA-C	5.09	119.25	110.79
1	c1	28	GLU	CA-CB-CG	5.09	124.29	114.10
1	c3	135	ILE	CB-CA-C	5.09	118.49	111.97
1	c5	80	TRP	CA-CB-CG	5.09	123.28	113.60
1	1c	28	GLU	O-C-N	-5.09	116.72	122.12
1	c7	219	GLN	CB-CG-CD	5.09	121.26	112.60
1	cf	187	GLU	CA-C-N	5.09	131.27	121.54
1	cf	187	GLU	C-N-CA	5.09	131.27	121.54
1	ck	32	PHE	O-C-N	-5.09	116.75	123.02
1	cw	75	GLU	N-CA-C	5.09	116.83	111.28
1	1h	230	VAL	CA-CB-CG2	5.09	119.06	110.40
1	cU	142	VAL	CB-CA-C	-5.09	104.01	112.26
1	cU	145	TYR	O-C-N	-5.09	116.26	122.22
1	cW	78	ALA	N-CA-CB	-5.09	102.62	110.16
1	cY	18	ARG	CA-C-N	5.09	127.06	120.44
1	cY	18	ARG	C-N-CA	5.09	127.06	120.44
1	d2	189	LEU	CA-C-O	-5.09	113.12	118.77
1	da	197	ASP	CA-CB-CG	5.09	117.69	112.60
1	dC	184	TRP	CB-CG-CD2	-5.09	119.67	126.80
1	dF	63	GLN	N-CA-C	5.09	116.64	111.14
1	dZ	114	GLN	N-CA-C	5.09	116.83	111.28
1	e4	229	ARG	CA-C-N	-5.09	114.44	122.64
1	e4	229	ARG	C-N-CA	-5.09	114.44	122.64
1	ed	28	GLU	N-CA-C	5.09	116.52	111.07
1	ee	180	GLU	CA-C-O	5.09	125.95	120.55
1	ef	130	TYR	CA-C-N	5.09	127.11	120.28
1	ef	130	TYR	C-N-CA	5.09	127.11	120.28
1	et	47	ALA	N-CA-C	5.09	117.92	109.46
1	f0	112	GLN	OE1-CD-NE2	5.09	127.69	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	f1	84	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	f7	46	GLY	CA-C-O	-5.09	113.51	119.72
1	fm	119	THR	CA-CB-OG1	5.09	117.24	109.60
1	fo	120	HIS	N-CA-C	5.09	117.28	110.35
1	fp	139	ASN	CA-CB-CG	-5.09	107.50	112.60
1	fs	56	LEU	CA-C-N	5.09	128.05	120.31
1	fs	56	LEU	C-N-CA	5.09	128.05	120.31
1	fs	107	THR	O-C-N	-5.09	116.46	122.32
1	fy	167	ARG	NE-CZ-NH2	-5.09	114.61	119.20
1	fB	190	LEU	N-CA-C	5.09	116.83	111.28
1	1y	120	HIS	CA-C-O	-5.09	116.01	121.56
1	fH	167	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	fM	102	SER	CA-C-N	5.09	127.11	120.28
1	fM	102	SER	C-N-CA	5.09	127.11	120.28
1	fS	190	LEU	CA-C-N	5.09	127.44	120.46
1	fS	190	LEU	C-N-CA	5.09	127.44	120.46
1	fU	7	GLN	CA-C-N	5.09	128.81	120.51
1	fU	7	GLN	C-N-CA	5.09	128.81	120.51
1	fV	48	THR	CA-C-N	5.09	126.21	119.84
1	fV	48	THR	C-N-CA	5.09	126.21	119.84
1	fW	160	PRO	N-CA-C	5.09	119.56	111.26
1	i	121	ASN	O-C-N	-5.09	115.31	121.12
1	p	51	ASP	CA-CB-CG	-5.09	107.51	112.60
1	v	71	GLU	CB-CG-CD	-5.09	103.94	112.60
1	w	204	ALA	N-CA-C	-5.09	105.19	111.40
1	6	21	ASN	O-C-N	-5.09	116.72	122.12
1	gj	126	VAL	CA-C-N	5.09	126.69	120.22
1	gj	126	VAL	C-N-CA	5.09	126.69	120.22
1	gu	136	LEU	N-CA-CB	-5.09	102.35	109.94
1	gE	114	GLN	CA-C-N	5.09	128.97	120.62
1	gE	114	GLN	C-N-CA	5.09	128.97	120.62
1	gO	216	THR	N-CA-C	5.09	116.83	111.28
1	gY	5	ASN	N-CA-C	-5.09	102.47	110.36
1	h2	213	GLU	CA-C-N	5.09	127.37	120.44
1	h2	213	GLU	C-N-CA	5.09	127.37	120.44
1	h5	139	ASN	CA-C-N	5.09	127.10	120.28
1	h5	139	ASN	C-N-CA	5.09	127.10	120.28
1	1I	114	GLN	CA-C-N	5.09	128.65	120.30
1	1I	114	GLN	C-N-CA	5.09	128.65	120.30
1	ht	7	GLN	N-CA-C	-5.09	106.16	112.93
1	hw	108	THR	CA-C-N	-5.09	115.69	122.72
1	hw	108	THR	C-N-CA	-5.09	115.69	122.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hC	25	LYS	N-CA-C	5.09	116.83	111.28
1	hD	120	HIS	CB-CG-CD2	5.09	137.82	131.20
1	hL	98	GLU	CB-CG-CD	-5.09	103.94	112.60
1	hU	48	THR	O-C-N	-5.09	117.02	121.35
1	1N	85	PRO	N-CA-CB	-5.09	99.01	102.73
1	i4	37	ILE	N-CA-C	5.09	119.88	108.88
1	ih	22	ALA	CA-C-N	5.09	127.06	120.44
1	ih	22	ALA	C-N-CA	5.09	127.06	120.44
1	il	124	ILE	CB-CG1-CD1	5.09	124.50	113.80
1	iB	171	THR	N-CA-C	-5.09	105.62	111.07
1	iG	52	LEU	CA-C-N	5.09	127.06	120.44
1	iG	52	LEU	C-N-CA	5.09	127.06	120.44
1	iQ	209	ALA	CA-C-N	5.09	130.24	120.97
1	iQ	209	ALA	C-N-CA	5.09	130.24	120.97
1	iW	70	LYS	CA-C-O	5.09	125.95	120.55
1	iY	42	ALA	CA-C-O	5.09	125.95	120.55
1	j8	45	GLU	CA-C-N	5.09	131.56	121.53
1	j8	45	GLU	C-N-CA	5.09	131.56	121.53
1	jh	41	SER	CA-C-N	5.09	127.06	120.44
1	jh	41	SER	C-N-CA	5.09	127.06	120.44
1	1X	45	GLU	CB-CG-CD	-5.09	103.94	112.60
1	1Y	199	LYS	CA-C-N	5.09	127.06	120.44
1	1Y	199	LYS	C-N-CA	5.09	127.06	120.44
1	jX	64	ALA	N-CA-C	5.09	117.22	111.11
1	k1	200	THR	CA-CB-OG1	-5.09	101.96	109.60
1	kD	229	ARG	N-CA-CB	5.09	119.07	110.92
1	24	130	TYR	CA-C-O	5.09	125.95	120.55
1	kY	108	THR	CA-C-O	-5.09	113.60	119.56
1	l0	100	ARG	CB-CG-CD	5.09	123.01	111.30
1	lg	5	ASN	CA-CB-CG	-5.09	107.51	112.60
1	lC	166	ASP	N-CA-C	5.09	116.64	111.14
1	lD	99	PRO	N-CA-C	5.09	119.20	110.95
1	lQ	169	TYR	CZ-CE2-CD2	-5.09	110.43	119.60
1	2g	21	ASN	CA-C-N	5.09	127.06	120.44
1	2g	21	ASN	C-N-CA	5.09	127.06	120.44
1	2K	195	ASN	N-CA-C	5.09	116.92	109.84
1	2P	207	PRO	CB-CA-C	5.09	117.45	110.52
1	34	67	GLN	N-CA-C	5.09	116.83	111.28
1	3e	59	VAL	CB-CA-C	5.09	117.04	111.08
1	3h	23	TRP	CE3-CZ3-CH2	-5.09	114.48	121.10
1	3p	102	SER	CA-C-N	5.09	127.52	120.29
1	3p	102	SER	C-N-CA	5.09	127.52	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3v	111	LEU	N-CA-C	5.09	116.52	111.07
1	4l	32	PHE	CA-C-N	5.09	127.89	120.51
1	4l	32	PHE	C-N-CA	5.09	127.89	120.51
1	4v	163	ASP	CA-CB-CG	-5.09	107.51	112.60
1	4E	75	GLU	O-C-N	-5.09	116.82	122.07
1	4J	98	GLU	CA-C-N	5.09	126.21	119.84
1	4J	98	GLU	C-N-CA	5.09	126.21	119.84
1	4O	172	LEU	N-CA-C	5.09	116.91	111.36
1	51	58	THR	N-CA-C	5.09	117.73	111.82
1	5d	11	VAL	N-CA-CB	-5.09	104.32	111.25
1	5g	50	GLN	CA-C-O	5.09	125.95	120.55
1	5g	86	VAL	CA-C-N	5.09	128.44	120.75
1	5g	86	VAL	C-N-CA	5.09	128.44	120.75
1	5q	10	MET	CG-SD-CE	-5.09	89.70	100.90
1	5q	45	GLU	N-CA-C	5.09	117.49	111.33
1	5q	162	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	5r	130	TYR	CB-CG-CD1	5.09	128.44	120.80
1	5t	70	LYS	CA-C-N	5.09	127.61	120.28
1	5t	70	LYS	C-N-CA	5.09	127.61	120.28
1	5O	72	THR	OG1-CB-CG2	-5.09	99.11	109.30
1	5S	164	TYR	N-CA-CB	-5.09	102.63	110.12
1	5U	211	LEU	CA-C-N	5.09	127.36	120.38
1	5U	211	LEU	C-N-CA	5.09	127.36	120.38
1	5X	201	ILE	O-C-N	5.09	126.90	121.91
1	6p	94	GLY	N-CA-C	5.09	122.12	115.40
1	7t	181	VAL	CA-CB-CG2	-5.09	101.74	110.40
1	7C	226	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	7Q	126	VAL	CA-C-O	5.09	126.35	121.05
1	7Z	33	SER	N-CA-C	-5.09	102.80	110.24
1	83	111	LEU	N-CA-C	5.09	117.22	111.11
1	87	36	VAL	CG1-CB-CG2	-5.09	99.60	110.80
1	8e	63	GLN	N-CA-C	5.09	116.52	111.07
1	8m	50	GLN	CA-C-N	5.09	127.52	120.29
1	8m	50	GLN	C-N-CA	5.09	127.52	120.29
1	8p	40	PHE	CA-CB-CG	5.09	118.89	113.80
1	8D	86	VAL	O-C-N	-5.09	116.21	122.88
1	8F	20	LEU	O-C-N	-5.09	116.72	122.12
1	8L	97	ARG	N-CA-C	5.09	117.28	110.35
1	99	100	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	9d	172	LEU	CA-C-N	5.09	127.52	120.29
1	9d	172	LEU	C-N-CA	5.09	127.52	120.29
1	9x	24	VAL	CB-CA-C	-5.09	105.27	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9B	193	ASN	CA-C-N	5.09	128.31	120.82
1	9B	193	ASN	C-N-CA	5.09	128.31	120.82
1	9N	166	ASP	N-CA-C	5.09	117.22	111.11
1	9P	216	THR	N-CA-C	-5.09	106.33	112.54
1	9X	17	PRO	CA-C-O	-5.09	111.90	119.18
1	a9	66	MET	CA-CB-CG	5.09	124.28	114.10
1	ah	30	LYS	CB-CA-C	-5.09	101.56	110.17
1	ah	141	ILE	N-CA-C	5.09	115.31	110.42
1	ak	193	ASN	O-C-N	-5.09	115.97	122.34
1	aq	130	TYR	N-CA-CB	5.09	117.70	110.16
1	aI	39	MET	CB-CA-C	-5.09	102.34	110.79
1	aX	153	ILE	CA-C-O	-5.09	114.97	120.47
1	b1	118	MET	CG-SD-CE	-5.09	89.70	100.90
1	b2	98	GLU	CA-C-N	5.09	125.33	119.83
1	b2	98	GLU	C-N-CA	5.09	125.33	119.83
1	b3	18	ARG	N-CA-C	5.09	116.91	111.36
1	b5	178	SER	N-CA-C	5.09	116.67	110.41
1	b7	127	GLY	CA-C-N	5.09	127.11	120.28
1	b7	127	GLY	C-N-CA	5.09	127.11	120.28
1	be	60	GLY	CA-C-N	5.09	128.95	121.67
1	be	60	GLY	C-N-CA	5.09	128.95	121.67
1	17	93	PRO	CB-CA-C	-5.09	105.17	111.64
1	bk	125	PRO	N-CA-CB	5.09	106.45	102.73
1	bF	189	LEU	CA-C-O	5.09	125.80	119.79
1	c1	130	TYR	N-CA-CB	-5.09	102.62	110.01
1	cb	38	PRO	O-C-N	5.09	128.60	122.23
1	cq	182	LYS	CB-CA-C	-5.09	102.33	110.79
1	cw	20	LEU	CA-C-N	5.09	127.11	120.28
1	cw	20	LEU	C-N-CA	5.09	127.11	120.28
1	1f	7	GLN	N-CA-CB	-5.09	102.48	109.97
1	cD	6	LEU	CA-C-N	5.09	131.27	121.54
1	cD	6	LEU	C-N-CA	5.09	131.27	121.54
1	cY	58	THR	CA-C-N	5.09	127.71	120.53
1	cY	58	THR	C-N-CA	5.09	127.71	120.53
1	d2	12	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	d4	54	THR	O-C-N	5.09	127.32	122.07
1	dd	154	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	dg	12	HIS	CA-CB-CG	5.09	118.89	113.80
1	dy	12	HIS	O-C-N	-5.09	117.23	123.19
1	dB	63	GLN	N-CA-CB	5.09	117.70	110.16
1	dL	209	ALA	N-CA-C	-5.09	106.31	112.88
1	e8	167	ARG	NE-CZ-NH2	5.09	123.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ej	25	LYS	O-C-N	-5.09	116.73	122.03
1	ep	12	HIS	CB-CG-ND1	5.09	130.34	122.70
1	es	139	ASN	N-CA-C	5.09	117.57	111.71
1	eB	176	GLN	CA-C-N	5.09	128.31	120.82
1	eB	176	GLN	C-N-CA	5.09	128.31	120.82
1	eD	27	VAL	CA-CB-CG2	-5.09	101.74	110.40
1	eK	126	VAL	CA-C-N	5.09	125.49	119.94
1	eK	126	VAL	C-N-CA	5.09	125.49	119.94
1	fP	31	ALA	N-CA-C	5.09	121.65	110.80
1	fQ	176	GLN	N-CA-CB	-5.09	103.16	110.65
1	fR	37	ILE	N-CA-CB	-5.09	107.11	110.52
1	fY	156	GLY	N-CA-C	5.09	118.11	112.00
1	g4	162	ARG	CA-C-N	5.09	127.52	120.29
1	g4	162	ARG	C-N-CA	5.09	127.52	120.29
1	g6	59	VAL	N-CA-C	5.09	115.67	107.98
1	1	135	ILE	CA-C-N	5.09	127.11	120.28
1	1	135	ILE	C-N-CA	5.09	127.11	120.28
1	p	64	ALA	O-C-N	-5.09	116.82	122.07
1	L	45	GLU	O-C-N	-5.09	116.09	123.07
1	V	227	LYS	N-CA-C	5.09	118.06	110.52
1	X	19	THR	N-CA-C	5.09	116.52	111.07
1	9	15	ILE	CB-CA-C	5.09	119.64	111.29
1	1C	24	VAL	CA-CB-CG1	5.09	119.06	110.40
1	go	108	THR	O-C-N	-5.09	116.00	122.26
1	go	229	ARG	CG-CD-NE	-5.09	100.80	112.00
1	gp	114	GLN	N-CA-C	5.09	116.83	111.28
1	1D	143	ARG	CD-NE-CZ	-5.09	117.27	124.40
1	gv	173	ARG	CG-CD-NE	-5.09	100.80	112.00
1	gE	123	PRO	O-C-N	-5.09	117.40	123.10
1	gH	49	PRO	CB-CA-C	5.09	119.96	111.56
1	gK	154	ARG	CA-C-N	5.09	128.00	120.82
1	gK	154	ARG	C-N-CA	5.09	128.00	120.82
1	gV	68	MET	CB-CA-C	5.09	118.87	110.88
1	1H	140	LYS	N-CA-CB	5.09	117.39	110.01
1	hk	46	GLY	CA-C-N	5.09	128.10	120.87
1	hk	46	GLY	C-N-CA	5.09	128.10	120.87
1	hw	124	ILE	CA-C-O	5.09	123.12	119.25
1	hH	72	THR	N-CA-C	5.09	116.83	111.28
1	hM	34	PRO	N-CA-CB	5.09	108.40	103.51
1	hQ	231	LEU	N-CA-CB	5.09	119.16	110.50
1	hU	191	VAL	CA-CB-CG2	5.09	119.06	110.40
1	i0	176	GLN	N-CA-CB	-5.09	103.12	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	i6	90	PRO	CA-C-N	5.09	127.32	120.50
1	i6	90	PRO	C-N-CA	5.09	127.32	120.50
1	ih	98	GLU	CB-CG-CD	-5.09	103.95	112.60
1	ih	163	ASP	CA-C-N	5.09	129.29	120.58
1	ih	163	ASP	C-N-CA	5.09	129.29	120.58
1	ik	62	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	ik	141	ILE	CA-CB-CG2	-5.09	101.84	110.50
1	in	132	ARG	O-C-N	5.09	127.31	122.07
1	iG	132	ARG	N-CA-CB	-5.09	102.63	110.12
1	iK	108	THR	N-CA-CB	5.09	118.39	110.80
1	iO	155	GLN	CA-C-N	5.09	129.86	121.87
1	iO	155	GLN	C-N-CA	5.09	129.86	121.87
1	1S	181	VAL	CA-C-O	5.09	126.57	121.17
1	iX	52	LEU	CA-C-O	5.09	125.95	120.55
1	iY	78	ALA	N-CA-C	5.09	116.52	111.07
1	iY	200	THR	N-CA-C	5.09	116.83	111.28
1	iZ	217	ALA	N-CA-C	5.09	117.42	110.55
1	1T	18	ARG	N-CA-C	-5.09	105.73	111.28
1	j5	21	ASN	O-C-N	-5.09	116.83	122.07
1	j8	131	LYS	CA-C-N	5.09	127.10	120.28
1	j8	131	LYS	C-N-CA	5.09	127.10	120.28
1	1U	32	PHE	CA-CB-CG	-5.09	108.71	113.80
1	jo	12	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	jB	133	TRP	CB-CG-CD1	5.09	134.54	126.90
1	jC	180	GLU	N-CA-C	5.09	117.72	111.82
1	jD	15	ILE	CA-C-O	-5.09	115.76	121.36
1	1X	34	PRO	CA-C-N	5.09	127.61	120.28
1	1X	34	PRO	C-N-CA	5.09	127.61	120.28
1	jG	9	GLN	OE1-CD-NE2	5.09	127.69	122.60
1	jK	174	ALA	O-C-N	-5.09	116.01	122.27
1	jT	86	VAL	N-CA-C	5.09	117.83	109.78
1	jT	178	SER	N-CA-C	5.09	121.64	110.80
1	20	188	THR	CA-C-N	5.09	127.10	120.28
1	20	188	THR	C-N-CA	5.09	127.10	120.28
1	kb	183	ASN	N-CA-C	5.09	116.52	111.07
1	kn	110	THR	O-C-N	-5.09	115.96	122.94
1	kq	37	ILE	CA-CB-CG1	5.09	119.06	110.40
1	ks	100	ARG	CA-C-N	5.09	126.69	120.22
1	ks	100	ARG	C-N-CA	5.09	126.69	120.22
1	kv	100	ARG	N-CA-CB	-5.09	103.40	110.38
1	kA	88	ALA	N-CA-C	5.09	117.10	110.43
1	kC	137	GLY	CA-C-O	5.09	125.54	120.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kL	165	VAL	CA-CB-CG2	-5.09	101.75	110.40
1	25	49	PRO	CA-C-N	5.09	127.10	120.28
1	25	49	PRO	C-N-CA	5.09	127.10	120.28
1	l2	181	VAL	CA-C-N	5.09	127.06	120.44
1	l2	181	VAL	C-N-CA	5.09	127.06	120.44
1	l5	152	ASP	CA-C-N	5.09	128.20	120.77
1	l5	152	ASP	C-N-CA	5.09	128.20	120.77
1	lp	116	GLY	CA-C-N	5.09	127.36	120.44
1	lp	116	GLY	C-N-CA	5.09	127.36	120.44
1	lv	63	GLN	CA-C-N	5.09	127.36	120.44
1	lv	63	GLN	C-N-CA	5.09	127.36	120.44
1	lx	50	GLN	O-C-N	-5.09	116.34	122.15
1	lL	44	SER	N-CA-C	-5.09	106.66	112.92
1	2c	110	THR	CA-CB-OG1	5.09	117.24	109.60
1	2e	211	LEU	N-CA-C	5.09	116.83	111.28
1	2h	1	PRO	N-CA-CB	-5.09	97.40	103.00
1	2j	6	LEU	N-CA-CB	5.09	120.16	111.66
1	2j	151	LEU	O-C-N	-5.09	115.82	122.39
1	2n	182	LYS	CA-C-O	5.09	125.95	120.55
1	2r	16	SER	N-CA-C	-5.09	103.36	109.72
1	2r	191	VAL	CA-CB-CG1	5.09	119.05	110.40
1	2z	11	VAL	CA-C-N	5.09	128.08	120.90
1	2z	11	VAL	C-N-CA	5.09	128.08	120.90
1	2z	194	ALA	O-C-N	-5.09	116.99	122.79
1	2J	117	TRP	CD2-CE2-CZ2	-5.09	117.31	122.40
1	2J	202	LEU	CA-C-O	-5.09	115.47	120.82
1	2W	104	ILE	N-CA-C	5.09	115.31	110.42
1	3b	218	CYS	O-C-N	-5.09	115.59	122.41
1	3e	95	GLN	CA-C-N	5.09	128.44	120.75
1	3e	95	GLN	C-N-CA	5.09	128.44	120.75
1	3x	15	ILE	CA-CB-CG1	5.09	119.06	110.40
1	3z	93	PRO	N-CA-CB	5.09	108.08	103.34
1	3B	210	THR	CA-CB-OG1	5.09	117.24	109.60
1	3I	91	ILE	N-CA-CB	5.09	118.69	110.13
1	3V	167	ARG	N-CA-CB	5.09	118.17	110.28
1	40	39	MET	CA-C-N	5.09	127.06	120.44
1	40	39	MET	C-N-CA	5.09	127.06	120.44
1	41	50	GLN	CG-CD-NE2	5.09	124.04	116.40
1	49	34	PRO	N-CA-CB	5.09	109.00	103.30
1	4r	113	GLU	N-CA-C	5.09	116.83	111.28
1	4u	101	GLY	N-CA-C	5.09	118.80	112.64
1	4x	82	ARG	NE-CZ-NH2	5.09	123.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4B	70	LYS	N-CA-C	5.09	116.83	111.28
1	4E	88	ALA	CA-C-O	-5.09	115.47	120.82
1	4T	156	GLY	O-C-N	-5.09	116.22	122.03
1	4T	229	ARG	CA-C-O	-5.09	115.36	121.11
1	4V	85	PRO	CA-C-N	5.09	129.87	123.10
1	4V	85	PRO	C-N-CA	5.09	129.87	123.10
1	4X	166	ASP	CA-C-N	5.09	127.35	120.38
1	4X	166	ASP	C-N-CA	5.09	127.35	120.38
1	50	173	ARG	N-CA-C	5.09	116.83	111.28
1	52	88	ALA	N-CA-C	5.09	117.25	110.53
1	55	156	GLY	CA-C-O	-5.09	117.52	122.46
1	5c	97	ARG	N-CA-C	5.09	117.10	110.43
1	5k	114	GLN	N-CA-C	5.09	116.83	111.28
1	5q	124	ILE	CA-C-O	-5.09	114.97	119.71
1	5q	140	LYS	N-CA-CB	-5.09	102.63	110.01
1	5x	101	GLY	CA-C-N	5.09	127.10	120.28
1	5x	101	GLY	C-N-CA	5.09	127.10	120.28
1	5O	142	VAL	CA-C-N	5.09	127.06	120.44
1	5O	142	VAL	C-N-CA	5.09	127.06	120.44
1	60	50	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	65	94	GLY	CA-C-N	5.09	131.51	121.58
1	65	94	GLY	C-N-CA	5.09	131.51	121.58
1	67	181	VAL	CA-C-N	5.09	127.06	120.44
1	67	181	VAL	C-N-CA	5.09	127.06	120.44
1	6e	38	PRO	CA-C-N	5.09	127.41	120.54
1	6e	38	PRO	C-N-CA	5.09	127.41	120.54
1	6j	199	LYS	N-CA-CB	5.09	117.61	110.12
1	6n	31	ALA	N-CA-C	5.09	116.05	108.31
1	6s	137	GLY	O-C-N	5.09	127.83	122.28
1	6t	98	GLU	CA-C-N	5.09	125.25	119.90
1	6t	98	GLU	C-N-CA	5.09	125.25	119.90
1	6C	23	TRP	N-CA-C	5.09	116.83	111.28
1	6V	124	ILE	CA-C-O	-5.09	115.60	119.98
1	7a	126	VAL	N-CA-C	5.09	115.81	110.62
1	7j	50	GLN	CA-C-N	5.09	127.06	120.44
1	7j	50	GLN	C-N-CA	5.09	127.06	120.44
1	7o	229	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	7F	198	CYS	CA-C-N	5.09	127.41	120.54
1	7F	198	CYS	C-N-CA	5.09	127.41	120.54
1	7I	223	GLY	N-CA-C	5.09	118.11	112.00
1	7V	202	LEU	N-CA-CB	5.09	117.39	110.01
1	7X	128	GLU	CB-CG-CD	5.09	121.26	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7X	209	ALA	CA-C-N	5.09	128.44	120.75
1	7X	209	ALA	C-N-CA	5.09	128.44	120.75
1	89	173	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	8k	71	GLU	CA-C-O	5.09	125.82	120.42
1	8w	132	ARG	CB-CA-C	-5.09	102.19	110.85
1	8Q	162	ARG	NH1-CZ-NH2	5.09	125.92	119.30
1	8T	161	PHE	N-CA-CB	-5.09	102.46	110.30
1	8U	74	ASN	N-CA-CB	5.09	117.39	110.01
1	8Y	87	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	9d	191	VAL	CA-C-N	5.09	128.46	120.82
1	9d	191	VAL	C-N-CA	5.09	128.46	120.82
1	9B	138	LEU	CA-C-N	5.09	127.10	120.28
1	9B	138	LEU	C-N-CA	5.09	127.10	120.28
1	9D	130	TYR	CD1-CE1-CZ	5.09	128.77	119.60
1	9G	198	CYS	CA-C-O	5.09	125.82	120.42
1	9L	35	GLU	CA-C-N	5.09	128.65	120.30
1	9L	35	GLU	C-N-CA	5.09	128.65	120.30
1	9Q	187	GLU	CA-C-O	-5.09	115.02	120.42
1	9S	28	GLU	O-C-N	-5.09	116.26	122.22
1	9Z	140	LYS	N-CA-CB	5.09	117.61	110.12
1	Z	150	ILE	CA-C-O	5.09	124.70	119.35
1	a0	227	LYS	CA-C-N	5.09	131.26	121.54
1	a0	227	LYS	C-N-CA	5.09	131.26	121.54
1	a3	39	MET	CB-CA-C	5.09	119.24	110.79
1	aa	13	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	ah	97	ARG	N-CA-CB	5.09	119.82	112.13
1	ah	152	ASP	CA-C-O	5.09	125.52	119.56
1	ai	132	ARG	CA-C-O	-5.09	113.78	119.79
1	al	87	HIS	CB-CG-CD2	-5.09	124.58	131.20
1	au	3	VAL	N-CA-C	5.09	117.35	108.90
1	au	14	ALA	N-CA-C	5.09	117.10	110.43
1	ay	160	PRO	N-CA-CB	5.09	108.60	103.25
1	aB	107	THR	CA-C-O	5.09	126.21	120.00
1	aF	120	HIS	CA-C-O	5.09	126.94	121.44
1	b0	201	ILE	CA-C-N	5.09	127.61	120.28
1	b0	201	ILE	C-N-CA	5.09	127.61	120.28
1	b2	22	ALA	CA-C-N	5.09	127.36	120.44
1	b2	22	ALA	C-N-CA	5.09	127.36	120.44
1	bt	130	TYR	CA-C-N	5.09	127.35	120.38
1	bt	130	TYR	C-N-CA	5.09	127.35	120.38
1	bM	75	GLU	CA-C-N	5.09	127.10	120.28
1	bM	75	GLU	C-N-CA	5.09	127.10	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c1	229	ARG	N-CA-CB	5.09	118.61	110.46
1	c2	90	PRO	CA-C-N	5.09	130.07	122.99
1	c2	90	PRO	C-N-CA	5.09	130.07	122.99
1	c3	63	GLN	N-CA-C	5.09	116.83	111.28
1	c5	13	GLN	CA-CB-CG	5.09	124.28	114.10
1	c9	13	GLN	CA-C-N	5.09	130.24	120.97
1	c9	13	GLN	C-N-CA	5.09	130.24	120.97
1	ch	102	SER	O-C-N	-5.09	116.35	122.15
1	ck	226	HIS	CA-C-N	5.09	129.95	122.77
1	ck	226	HIS	C-N-CA	5.09	129.95	122.77
1	cq	56	LEU	O-C-N	-5.09	116.72	122.12
1	cF	5	ASN	CB-CG-ND2	5.09	124.04	116.40
1	cN	79	GLU	O-C-N	-5.09	116.72	122.12
1	1h	156	GLY	O-C-N	-5.09	116.68	121.77
1	cU	203	LYS	N-CA-CB	5.09	117.39	110.01
1	cZ	57	ASN	CA-C-O	5.09	125.64	119.38
1	d5	227	LYS	O-C-N	-5.09	115.90	122.77
1	de	179	GLN	OE1-CD-NE2	5.09	127.69	122.60
1	dl	1	PRO	CA-N-CD	-5.09	104.87	112.00
1	do	133	TRP	CA-C-N	5.09	126.97	120.56
1	do	133	TRP	C-N-CA	5.09	126.97	120.56
1	dr	93	PRO	N-CA-CB	5.09	107.77	103.19
1	dy	132	ARG	CA-C-N	5.09	127.10	120.28
1	dy	132	ARG	C-N-CA	5.09	127.10	120.28
1	dA	184	TRP	CB-CG-CD2	-5.09	119.67	126.80
1	dU	18	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	dV	129	ILE	CB-CA-C	-5.09	105.35	112.02
1	e0	81	ASP	N-CA-C	5.09	117.57	111.71
1	e0	87	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	1o	184	TRP	CD2-CE2-CZ2	-5.09	117.31	122.40
1	ef	214	MET	CA-C-O	5.09	125.82	120.42
1	ej	9	GLN	N-CA-CB	5.09	118.03	110.29
1	ek	154	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	el	161	PHE	CB-CG-CD2	-5.09	112.04	120.70
1	ep	162	ARG	N-CA-C	5.09	116.83	111.28
1	et	131	LYS	O-C-N	5.09	127.52	122.12
1	ev	13	GLN	N-CA-C	-5.09	101.10	109.40
1	ew	98	GLU	O-C-N	-5.09	115.93	121.53
1	ew	150	ILE	CA-CB-CG1	5.09	119.05	110.40
1	eB	20	LEU	O-C-N	-5.09	116.72	122.12
1	eG	229	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	eH	172	LEU	O-C-N	-5.09	116.72	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	36	VAL	CA-C-O	5.09	125.75	120.25
1	eX	13	GLN	O-C-N	-5.09	117.26	123.27
1	eY	104	ILE	CA-C-N	5.09	130.46	120.99
1	eY	104	ILE	C-N-CA	5.09	130.46	120.99
1	f0	29	GLU	O-C-N	-5.09	116.34	122.15
1	f8	191	VAL	O-C-N	-5.09	116.93	121.87
1	fi	132	ARG	N-CA-C	5.09	117.49	111.33
1	fk	195	ASN	OD1-CG-ND2	-5.09	117.51	122.60
1	fn	82	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	fs	111	LEU	CA-C-N	5.09	127.36	120.38
1	fs	111	LEU	C-N-CA	5.09	127.36	120.38
1	fs	162	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	fy	118	MET	CG-SD-CE	-5.09	89.70	100.90
1	1y	114	GLN	CG-CD-NE2	-5.09	108.76	116.40
1	fH	70	LYS	CA-C-O	5.09	125.82	120.42
1	fN	159	GLU	O-C-N	-5.09	117.20	121.38
1	fX	84	HIS	CA-CB-CG	5.09	118.89	113.80
1	fZ	75	GLU	N-CA-C	5.09	116.83	111.28
1	g4	5	ASN	OD1-CG-ND2	-5.09	117.51	122.60
1	a	204	ALA	N-CA-C	-5.09	107.12	113.38
1	e	66	MET	O-C-N	-5.09	116.35	122.15
1	i	62	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	o	91	ILE	O-C-N	-5.09	116.21	122.57
1	r	208	ALA	CA-C-O	-5.09	115.22	121.28
1	u	116	GLY	CA-C-N	5.09	127.10	120.28
1	u	116	GLY	C-N-CA	5.09	127.10	120.28
1	w	160	PRO	N-CA-C	5.09	119.20	111.11
1	3	158	LYS	N-CA-C	-5.09	106.31	112.88
1	H	217	ALA	CA-C-N	5.09	129.75	122.21
1	H	217	ALA	C-N-CA	5.09	129.75	122.21
1	K	173	ARG	CA-C-O	5.09	125.82	120.42
1	T	152	ASP	N-CA-C	5.09	119.55	113.23
1	V	21	ASN	N-CA-C	5.09	117.57	111.71
1	X	114	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	g9	184	TRP	CA-C-O	5.09	126.16	120.82
1	gb	214	MET	O-C-N	-5.09	115.77	122.39
1	gg	174	ALA	CB-CA-C	5.09	120.05	110.63
1	gj	4	GLN	N-CA-CB	-5.09	102.92	110.61
1	1E	40	PHE	O-C-N	-5.09	115.61	122.23
1	gC	165	VAL	N-CA-C	5.09	115.81	110.62
1	gI	142	VAL	O-C-N	-5.09	116.85	121.94
1	gK	181	VAL	N-CA-C	5.09	116.55	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h0	211	LEU	CB-CA-C	5.09	120.55	110.42
1	h3	13	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	1I	150	ILE	N-CA-CB	5.09	118.45	110.31
1	hg	133	TRP	CB-CG-CD2	-5.09	119.68	126.80
1	ho	143	ARG	N-CA-C	5.09	117.72	111.82
1	hp	26	VAL	CA-CB-CG1	5.09	119.05	110.40
1	hp	210	THR	N-CA-C	5.09	117.81	110.28
1	hv	179	GLN	CA-C-N	5.09	127.06	120.44
1	hv	179	GLN	C-N-CA	5.09	127.06	120.44
1	hw	39	MET	CA-C-N	5.09	127.06	120.44
1	hw	39	MET	C-N-CA	5.09	127.06	120.44
1	hO	14	ALA	CA-C-N	5.09	128.18	120.75
1	hO	14	ALA	C-N-CA	5.09	128.18	120.75
1	hS	188	THR	CA-C-N	5.09	127.10	120.28
1	hS	188	THR	C-N-CA	5.09	127.10	120.28
1	hX	80	TRP	CD2-CE2-CZ2	-5.09	117.31	122.40
1	hX	152	ASP	CA-C-O	5.09	126.11	119.95
1	hY	124	ILE	O-C-N	-5.09	118.16	121.37
1	i1	185	MET	CA-C-O	-5.09	115.16	120.55
1	i3	190	LEU	O-C-N	-5.09	116.01	122.27
1	ic	194	ALA	N-CA-C	5.09	117.27	110.35
1	ih	23	TRP	O-C-N	-5.09	116.83	122.07
1	ip	89	GLY	N-CA-C	5.09	122.72	112.34
1	iA	100	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	iB	55	MET	CA-C-N	5.09	127.10	120.28
1	iB	55	MET	C-N-CA	5.09	127.10	120.28
1	iB	102	SER	O-C-N	-5.09	116.72	122.12
1	iD	204	ALA	N-CA-CB	-5.09	102.64	110.12
1	iE	130	TYR	CA-C-N	5.09	127.61	120.28
1	iE	130	TYR	C-N-CA	5.09	127.61	120.28
1	iE	230	VAL	CA-CB-CG1	5.09	119.05	110.40
1	iM	108	THR	CA-CB-OG1	5.09	117.23	109.60
1	iQ	183	ASN	CA-C-N	5.09	127.52	120.29
1	iQ	183	ASN	C-N-CA	5.09	127.52	120.29
1	iQ	227	LYS	O-C-N	-5.09	117.92	123.26
1	iX	133	TRP	O-C-N	-5.09	116.35	122.15
1	j1	120	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	j2	191	VAL	CA-C-N	5.09	127.06	120.44
1	j2	191	VAL	C-N-CA	5.09	127.06	120.44
1	j4	155	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	j6	131	LYS	CA-CB-CG	5.09	124.28	114.10
1	j9	162	ARG	NE-CZ-NH2	5.09	123.78	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1U	167	ARG	N-CA-C	-5.09	105.82	112.23
1	jq	72	THR	CA-C-O	5.09	125.94	120.55
1	jr	4	GLN	N-CA-CB	5.09	117.95	109.60
1	jy	133	TRP	CA-C-N	5.09	126.97	120.56
1	jy	133	TRP	C-N-CA	5.09	126.97	120.56
1	jD	75	GLU	N-CA-C	5.09	116.83	111.28
1	jF	71	GLU	CA-C-N	5.09	128.05	120.31
1	jF	71	GLU	C-N-CA	5.09	128.05	120.31
1	jK	73	ILE	CA-CB-CG1	5.09	119.05	110.40
1	jP	59	VAL	CA-C-N	5.09	125.60	120.00
1	jP	59	VAL	C-N-CA	5.09	125.60	120.00
1	1Y	62	HIS	N-CA-C	5.09	118.84	111.56
1	jR	45	GLU	O-C-N	-5.09	116.67	122.93
1	jY	180	GLU	CA-C-O	5.09	126.16	120.82
1	k0	62	HIS	ND1-CG-CD2	5.09	111.19	106.10
1	k2	208	ALA	N-CA-CB	-5.09	102.65	110.44
1	kk	115	ILE	CA-C-N	5.09	125.74	119.99
1	kk	115	ILE	C-N-CA	5.09	125.74	119.99
1	km	63	GLN	O-C-N	-5.09	115.61	122.43
1	kH	17	PRO	N-CD-CG	5.09	110.83	103.20
1	kJ	15	ILE	CA-C-O	5.09	127.03	121.13
1	kL	84	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	kN	114	GLN	O-C-N	5.09	127.31	122.07
1	kV	66	MET	O-C-N	-5.09	116.83	122.07
1	l0	153	ILE	N-CA-CB	5.09	117.46	111.66
1	l1	195	ASN	N-CA-C	5.09	121.06	109.81
1	l2	171	THR	N-CA-C	-5.09	105.81	111.36
1	l8	23	TRP	CA-C-N	5.09	126.97	120.56
1	l8	23	TRP	C-N-CA	5.09	126.97	120.56
1	l8	183	ASN	CA-C-O	5.09	125.94	120.55
1	ld	161	PHE	CB-CA-C	5.09	119.33	110.68
1	lg	168	PHE	CB-CG-CD1	-5.09	112.05	120.70
1	li	73	ILE	CA-C-O	-5.09	115.76	121.05
1	ll	84	HIS	CA-CB-CG	-5.09	108.71	113.80
1	lp	13	GLN	CA-C-O	5.09	126.54	120.28
1	ls	134	ILE	CA-CB-CG2	-5.09	101.85	110.50
1	ls	221	VAL	CA-C-N	5.09	128.98	121.96
1	ls	221	VAL	C-N-CA	5.09	128.98	121.96
1	ly	186	THR	N-CA-CB	5.09	118.38	110.44
1	lz	6	LEU	O-C-N	-5.09	117.05	122.85
1	lN	160	PRO	CB-CA-C	-5.09	104.44	111.21
1	2m	90	PRO	N-CD-CG	5.09	110.83	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2m	108	THR	CB-CA-C	-5.09	101.57	110.17
1	2n	69	LEU	O-C-N	5.09	127.52	122.12
1	2p	75	GLU	N-CA-C	5.09	117.23	111.02
1	2u	167	ARG	NE-CZ-NH2	5.09	123.78	119.20
1	2z	229	ARG	CB-CG-CD	5.09	123.00	111.30
1	2F	36	VAL	CA-CB-CG2	-5.09	101.75	110.40
1	2L	102	SER	N-CA-C	5.09	116.83	111.28
1	2Q	213	GLU	CA-C-N	5.09	127.52	120.29
1	2Q	213	GLU	C-N-CA	5.09	127.52	120.29
1	2T	139	ASN	N-CA-CB	5.09	117.39	110.01
1	2X	83	LEU	CD1-CG-CD2	-5.09	99.60	110.80
1	2X	157	PRO	N-CD-CG	5.09	110.84	103.20
1	31	173	ARG	CA-C-O	5.09	125.94	120.55
1	32	119	THR	CA-C-N	5.09	128.30	120.82
1	32	119	THR	C-N-CA	5.09	128.30	120.82
1	3a	165	VAL	CG1-CB-CG2	-5.09	99.60	110.80
1	3d	32	PHE	CA-C-O	5.09	126.91	120.65
1	3e	76	GLU	CB-CA-C	-5.09	100.90	110.67
1	3i	185	MET	N-CA-CB	5.09	117.60	110.12
1	3n	93	PRO	CA-C-N	5.09	130.18	121.07
1	3n	93	PRO	C-N-CA	5.09	130.18	121.07
1	3n	170	LYS	N-CA-C	5.09	116.52	110.97
1	3B	196	PRO	N-CA-CB	5.09	108.68	103.23
1	3D	168	PHE	CA-CB-CG	-5.09	108.71	113.80
1	3K	102	SER	CB-CA-C	5.09	118.87	110.88
1	3L	224	PRO	CA-C-N	5.09	131.39	121.41
1	3L	224	PRO	C-N-CA	5.09	131.39	121.41
1	41	100	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	43	204	ALA	N-CA-C	5.09	116.83	111.28
1	46	96	MET	CA-C-O	5.09	126.48	120.58
1	4e	146	SER	N-CA-CB	5.09	117.55	110.07
1	4o	6	LEU	CA-C-N	5.09	130.58	122.74
1	4o	6	LEU	C-N-CA	5.09	130.58	122.74
1	4o	212	GLU	N-CA-C	5.09	117.72	111.82
1	4u	177	ALA	N-CA-C	5.09	117.61	110.23
1	4z	5	ASN	O-C-N	-5.09	116.68	122.89
1	4V	132	ARG	CA-C-N	5.09	127.10	120.28
1	4V	132	ARG	C-N-CA	5.09	127.10	120.28
1	4W	112	GLN	N-CA-C	5.09	118.75	112.54
1	4W	139	ASN	OD1-CG-ND2	-5.09	117.51	122.60
1	52	34	PRO	CA-C-N	5.09	128.04	120.31
1	52	34	PRO	C-N-CA	5.09	128.04	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5f	95	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	5o	124	ILE	O-C-N	-5.09	115.30	121.10
1	5I	23	TRP	N-CA-C	5.09	116.83	111.28
1	5U	128	GLU	CA-C-O	-5.09	115.16	120.55
1	5Y	23	TRP	CA-C-N	5.09	127.71	120.53
1	5Y	23	TRP	C-N-CA	5.09	127.71	120.53
1	63	140	LYS	O-C-N	-5.09	116.80	122.09
1	65	9	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	65	161	PHE	CA-C-N	5.09	127.35	120.38
1	65	161	PHE	C-N-CA	5.09	127.35	120.38
1	67	36	VAL	O-C-N	-5.09	116.93	121.87
1	67	57	ASN	CA-C-N	5.09	127.86	120.79
1	67	57	ASN	C-N-CA	5.09	127.86	120.79
1	68	22	ALA	CA-C-N	5.09	127.37	120.65
1	68	22	ALA	C-N-CA	5.09	127.37	120.65
1	68	116	GLY	CA-C-N	5.09	127.10	120.28
1	68	116	GLY	C-N-CA	5.09	127.10	120.28
1	6a	186	THR	CA-C-O	5.09	126.62	120.92
1	6h	203	LYS	O-C-N	-5.09	115.51	122.33
1	6C	125	PRO	N-CD-CG	5.09	110.83	103.20
1	6O	33	SER	CA-C-O	-5.09	115.80	120.94
1	6O	204	ALA	CA-C-N	5.09	127.36	120.44
1	6O	204	ALA	C-N-CA	5.09	127.36	120.44
1	6X	169	TYR	O-C-N	-5.09	115.61	122.23
1	72	34	PRO	CA-C-N	5.09	129.33	120.68
1	72	34	PRO	C-N-CA	5.09	129.33	120.68
1	76	20	LEU	CA-C-N	5.09	127.10	120.28
1	76	20	LEU	C-N-CA	5.09	127.10	120.28
1	7c	161	PHE	CB-CG-CD1	-5.09	112.05	120.70
1	7f	92	GLU	CB-CG-CD	5.09	121.25	112.60
1	7h	27	VAL	CB-CA-C	5.09	118.48	111.97
1	7D	212	GLU	CA-C-N	5.09	127.06	120.44
1	7D	212	GLU	C-N-CA	5.09	127.06	120.44
1	7F	33	SER	CA-C-O	-5.09	115.66	120.34
1	7I	41	SER	O-C-N	-5.09	116.01	122.27
1	7J	51	ASP	CA-CB-CG	-5.09	107.51	112.60
1	7S	132	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	83	131	LYS	CB-CA-C	5.09	118.87	110.88
1	8b	41	SER	CB-CA-C	5.09	118.87	110.88
1	8b	167	ARG	N-CA-C	5.09	116.64	111.14
1	8k	56	LEU	N-CA-CB	5.09	117.60	110.12
1	8x	79	GLU	O-C-N	-5.09	116.72	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8y	27	VAL	O-C-N	-5.09	116.59	121.83
1	8z	161	PHE	N-CA-C	5.09	116.91	111.36
1	8A	73	ILE	CA-C-N	5.09	127.61	120.28
1	8A	73	ILE	C-N-CA	5.09	127.61	120.28
1	8K	143	ARG	CA-C-N	5.09	127.10	120.28
1	8K	143	ARG	C-N-CA	5.09	127.10	120.28
1	8R	62	HIS	N-CA-C	5.09	121.64	110.80
1	8V	36	VAL	N-CA-CB	5.09	118.21	110.58
1	94	184	TRP	CG-CD1-NE1	-5.09	103.58	110.20
1	9D	224	PRO	CB-CA-C	5.09	120.19	112.10
1	9K	48	THR	O-C-N	-5.09	115.83	121.53
1	9U	168	PHE	N-CA-C	5.09	116.52	111.07
1	9U	221	VAL	O-C-N	-5.09	116.21	122.57
1	9V	80	TRP	N-CA-C	5.09	116.83	111.28
1	9X	193	ASN	CA-C-O	5.09	125.84	119.78
1	aa	84	HIS	CA-CB-CG	-5.09	108.71	113.80
1	ag	185	MET	N-CA-C	5.09	117.56	111.71
1	an	228	ALA	N-CA-CB	5.09	117.51	109.83
1	ao	48	THR	O-C-N	-5.09	115.93	121.53
1	ap	87	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	aq	147	PRO	N-CA-C	5.09	122.95	112.47
1	ax	51	ASP	CA-C-N	5.09	127.06	120.44
1	ax	51	ASP	C-N-CA	5.09	127.06	120.44
1	aM	158	LYS	N-CA-C	-5.09	106.23	112.90
1	15	41	SER	CA-C-O	-5.09	115.13	120.63
1	b3	130	TYR	CA-C-O	-5.09	115.16	120.55
1	b5	12	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	b5	31	ALA	N-CA-C	5.09	117.49	111.33
1	b7	12	HIS	CA-CB-CG	5.09	118.89	113.80
1	bg	211	LEU	N-CA-C	5.09	118.26	111.75
1	bx	121	ASN	CA-CB-CG	5.09	117.69	112.60
1	bE	173	ARG	NH1-CZ-NH2	-5.09	112.68	119.30
1	bE	227	LYS	N-CA-C	5.09	117.81	110.28
1	bG	82	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	bK	52	LEU	CA-C-O	-5.09	115.15	120.55
1	bQ	152	ASP	CA-C-O	5.09	125.22	119.27
1	bV	23	TRP	CA-C-N	5.09	126.97	120.56
1	bV	23	TRP	C-N-CA	5.09	126.97	120.56
1	c5	6	LEU	CA-C-N	5.09	129.78	122.40
1	c5	6	LEU	C-N-CA	5.09	129.78	122.40
1	c6	132	ARG	N-CA-C	5.09	116.83	111.28
1	cc	170	LYS	N-CA-C	5.09	116.91	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cf	95	GLN	N-CA-CB	5.09	118.69	110.65
1	1d	53	ASN	CA-C-O	5.09	126.16	120.82
1	cg	88	ALA	CA-C-O	5.09	125.30	118.38
1	ci	98	GLU	O-C-N	-5.09	116.03	121.42
1	cz	32	PHE	N-CA-C	-5.09	106.38	112.59
1	cE	226	HIS	O-C-N	5.09	128.42	122.67
1	cM	97	ARG	CG-CD-NE	-5.09	100.80	112.00
1	d9	107	THR	N-CA-C	-5.09	105.19	111.40
1	df	165	VAL	N-CA-CB	5.09	117.46	110.54
1	dl	9	GLN	CB-CG-CD	-5.09	103.95	112.60
1	dq	36	VAL	N-CA-CB	5.09	117.46	110.54
1	ds	170	LYS	CA-C-N	5.09	127.10	120.28
1	ds	170	LYS	C-N-CA	5.09	127.10	120.28
1	dx	229	ARG	CA-C-O	5.09	126.94	121.44
1	dK	134	ILE	O-C-N	-5.09	116.93	121.87
1	dK	229	ARG	CB-CA-C	-5.09	101.27	109.72
1	dP	120	HIS	N-CA-CB	5.09	118.06	109.92
1	dP	143	ARG	CA-C-N	5.09	127.81	120.38
1	dP	143	ARG	C-N-CA	5.09	127.81	120.38
1	dW	92	GLU	O-C-N	-5.09	115.73	121.43
1	e0	214	MET	N-CA-C	5.09	116.83	111.28
1	e7	131	LYS	N-CA-CB	5.09	117.69	110.06
1	e7	138	LEU	CA-C-N	5.09	127.10	120.28
1	e7	138	LEU	C-N-CA	5.09	127.10	120.28
1	ef	85	PRO	N-CA-C	5.09	119.19	111.15
1	ef	132	ARG	N-CA-C	5.09	116.83	111.28
1	eq	163	ASP	N-CA-C	-5.09	105.81	111.36
1	er	166	ASP	CA-C-O	5.09	125.95	120.55
1	1r	84	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	eI	133	TRP	CA-C-O	5.09	125.82	119.97
1	eI	134	ILE	CA-C-N	5.09	127.65	120.42
1	eI	134	ILE	C-N-CA	5.09	127.65	120.42
1	eJ	17	PRO	CA-C-N	5.09	127.06	120.44
1	eJ	17	PRO	C-N-CA	5.09	127.06	120.44
1	eK	190	LEU	CA-C-N	5.09	128.65	120.30
1	eK	190	LEU	C-N-CA	5.09	128.65	120.30
1	f0	133	TRP	CA-C-N	5.09	127.43	120.46
1	f0	133	TRP	C-N-CA	5.09	127.43	120.46
1	f8	176	GLN	CB-CG-CD	5.09	121.25	112.60
1	fw	71	GLU	N-CA-C	5.09	116.83	111.28
1	fx	49	PRO	O-C-N	-5.09	115.87	122.23
1	fF	69	LEU	N-CA-CB	-5.09	102.64	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fH	209	ALA	N-CA-C	-5.09	103.21	110.59
1	fO	182	LYS	CA-C-N	5.09	127.10	120.28
1	fO	182	LYS	C-N-CA	5.09	127.10	120.28
1	g3	115	ILE	CA-C-O	5.09	126.56	121.17
1	g5	67	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	k	64	ALA	O-C-N	-5.09	116.35	122.15
1	k	189	LEU	N-CA-C	5.09	117.22	111.11
1	n	9	GLN	N-CA-C	5.09	117.42	110.24
1	q	15	ILE	CA-C-O	5.09	127.24	120.98
1	A	97	ARG	N-CA-C	5.09	117.25	110.53
1	N	142	VAL	N-CA-CB	5.09	116.83	110.47
1	4	43	LEU	N-CA-C	-5.09	106.58	112.89
1	S	24	VAL	CA-C-N	5.09	128.45	120.82
1	S	24	VAL	C-N-CA	5.09	128.45	120.82
1	V	58	THR	N-CA-CB	5.09	117.39	110.01
1	W	11	VAL	CA-C-O	5.09	127.75	121.75
1	W	186	THR	N-CA-CB	5.09	117.69	110.16
1	ga	120	HIS	O-C-N	-5.09	115.82	122.59
1	gk	132	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	hi	154	ARG	NH1-CZ-NH2	-5.09	112.69	119.30
1	hx	112	GLN	O-C-N	-5.09	115.61	122.43
1	1K	63	GLN	CG-CD-NE2	5.09	124.03	116.40
1	hE	62	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	hF	63	GLN	N-CA-C	5.09	118.75	112.54
1	hM	7	GLN	CA-C-O	-5.09	116.09	121.94
1	1N	153	ILE	N-CA-C	5.09	114.59	107.37
1	ie	46	GLY	CA-C-O	-5.09	113.36	119.06
1	iv	100	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	iv	163	ASP	CB-CA-C	-5.09	101.59	110.09
1	iB	47	ALA	N-CA-C	5.09	117.59	109.96
1	iJ	25	LYS	O-C-N	5.09	127.31	122.07
1	1S	178	SER	N-CA-CB	5.09	117.51	109.83
1	iT	80	TRP	CG-CD2-CE3	-5.09	128.81	133.90
1	iU	64	ALA	CA-C-O	5.09	125.81	120.42
1	iV	90	PRO	N-CD-CG	5.09	110.83	103.20
1	iV	159	GLU	CA-C-N	5.09	125.09	119.90
1	iV	159	GLU	C-N-CA	5.09	125.09	119.90
1	iY	189	LEU	CA-C-N	5.09	127.10	120.28
1	iY	189	LEU	C-N-CA	5.09	127.10	120.28
1	j1	155	GLN	N-CA-C	5.09	117.59	109.96
1	j5	149	SER	CA-C-O	-5.09	116.16	121.55
1	j7	159	GLU	CA-C-N	5.09	126.20	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j7	159	GLU	C-N-CA	5.09	126.20	119.84
1	jc	88	ALA	N-CA-C	5.09	117.72	110.24
1	1V	189	LEU	N-CA-C	5.09	116.83	111.28
1	jv	5	ASN	CA-CB-CG	5.09	117.69	112.60
1	jz	115	ILE	CA-CB-CG1	5.09	119.05	110.40
1	jA	27	VAL	CB-CA-C	-5.09	105.20	112.22
1	jI	74	ASN	CB-CG-OD1	5.09	130.97	120.80
1	jN	16	SER	CA-C-N	5.09	126.20	119.84
1	jN	16	SER	C-N-CA	5.09	126.20	119.84
1	jT	208	ALA	CA-C-N	5.09	128.43	120.75
1	jT	208	ALA	C-N-CA	5.09	128.43	120.75
1	jZ	226	HIS	CB-CG-CD2	5.09	137.81	131.20
1	1Z	214	MET	CA-C-N	5.09	127.10	120.28
1	1Z	214	MET	C-N-CA	5.09	127.10	120.28
1	k3	140	LYS	N-CA-C	5.09	117.49	111.33
1	kq	6	LEU	N-CA-C	5.09	116.83	111.28
1	ky	19	THR	OG1-CB-CG2	-5.09	99.12	109.30
1	kH	149	SER	O-C-N	-5.09	117.21	122.96
1	l5	123	PRO	N-CD-CG	5.09	110.83	103.20
1	la	210	THR	N-CA-CB	5.09	118.70	110.41
1	lf	141	ILE	CA-C-O	-5.09	115.78	121.17
1	lx	92	GLU	CA-C-N	5.09	125.00	119.76
1	lx	92	GLU	C-N-CA	5.09	125.00	119.76
1	lB	15	ILE	O-C-N	-5.09	116.21	122.57
1	lF	35	GLU	O-C-N	5.09	128.70	122.34
1	2n	159	GLU	CB-CG-CD	-5.09	103.95	112.60
1	2s	72	THR	N-CA-C	5.09	117.49	111.33
1	33	156	GLY	CA-C-N	5.09	124.39	118.85
1	33	156	GLY	C-N-CA	5.09	124.39	118.85
1	3l	195	ASN	CA-C-N	5.09	126.20	119.84
1	3l	195	ASN	C-N-CA	5.09	126.20	119.84
1	3m	59	VAL	CA-C-N	5.09	126.75	120.34
1	3m	59	VAL	C-N-CA	5.09	126.75	120.34
1	3o	21	ASN	CA-C-N	5.09	127.10	120.28
1	3o	21	ASN	C-N-CA	5.09	127.10	120.28
1	3v	54	THR	N-CA-C	5.09	116.83	111.28
1	3y	141	ILE	N-CA-CB	5.09	117.08	110.57
1	3D	4	GLN	OE1-CD-NE2	5.09	127.69	122.60
1	3F	72	THR	CA-C-O	-5.09	115.16	120.55
1	3O	84	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	47	67	GLN	N-CA-C	5.09	116.91	111.36
1	4a	205	LEU	CA-C-O	5.09	125.82	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4b	181	VAL	CB-CA-C	-5.09	105.35	112.02
1	4w	62	HIS	CG-ND1-CE1	-5.09	100.65	109.30
1	4B	170	LYS	CA-C-N	5.09	127.36	120.44
1	4B	170	LYS	C-N-CA	5.09	127.36	120.44
1	4G	101	GLY	CA-C-N	5.09	127.35	120.38
1	4G	101	GLY	C-N-CA	5.09	127.35	120.38
1	4K	146	SER	N-CA-CB	5.09	117.44	110.01
1	55	172	LEU	N-CA-CB	-5.09	102.84	110.73
1	5w	183	ASN	O-C-N	5.09	127.31	122.07
1	5C	48	THR	O-C-N	-5.09	115.73	121.43
1	5G	161	PHE	CA-C-N	5.09	127.06	120.44
1	5G	161	PHE	C-N-CA	5.09	127.06	120.44
1	5V	142	VAL	O-C-N	5.09	126.90	121.91
1	64	183	ASN	CA-C-O	5.09	125.81	120.42
1	6d	44	SER	CA-C-O	5.09	125.95	119.95
1	6p	211	LEU	N-CA-C	5.09	116.83	111.28
1	6t	18	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	6R	12	HIS	ND1-CE1-NE2	5.09	113.49	108.40
1	70	173	ARG	O-C-N	-5.09	116.27	122.22
1	73	84	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	7p	149	SER	CA-C-N	5.09	127.16	120.60
1	7p	149	SER	C-N-CA	5.09	127.16	120.60
1	7z	165	VAL	CA-CB-CG2	-5.09	101.75	110.40
1	7E	22	ALA	CA-C-N	5.09	127.41	120.54
1	7E	22	ALA	C-N-CA	5.09	127.41	120.54
1	82	49	PRO	N-CA-CB	5.09	109.06	103.26
1	83	48	THR	N-CA-C	-5.09	102.76	110.39
1	89	180	GLU	N-CA-C	5.09	117.56	111.71
1	8c	207	PRO	N-CA-C	-5.09	107.11	114.18
1	8E	129	ILE	CA-C-O	-5.09	115.66	120.95
1	96	111	LEU	O-C-N	-5.09	116.73	122.12
1	98	143	ARG	CG-CD-NE	-5.09	100.81	112.00
1	98	167	ARG	CA-C-O	-5.09	115.16	120.55
1	9j	163	ASP	CB-CA-C	5.09	119.50	110.85
1	9j	172	LEU	O-C-N	-5.09	115.86	122.37
1	9l	54	THR	N-CA-CB	5.09	117.60	110.12
1	9N	12	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	9N	43	LEU	CA-C-O	5.09	125.65	119.49
1	9T	4	GLN	CB-CG-CD	-5.09	103.95	112.60
1	9W	26	VAL	N-CA-C	5.09	115.86	110.72
1	a7	212	GLU	N-CA-C	5.09	116.83	111.28
1	aa	169	TYR	CB-CG-CD1	-5.09	113.17	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	169	TYR	CA-CB-CG	-5.09	104.74	113.90
1	12	99	PRO	N-CA-C	5.09	119.20	111.11
1	aU	68	MET	CA-C-N	-5.09	113.46	120.28
1	aU	68	MET	C-N-CA	-5.09	113.46	120.28
1	bi	178	SER	O-C-N	-5.09	117.02	123.12
1	bx	102	SER	N-CA-C	5.09	116.83	111.28
1	by	22	ALA	N-CA-C	5.09	116.83	111.28
1	bD	210	THR	N-CA-CB	5.09	117.64	110.36
1	bP	30	LYS	N-CA-CB	5.09	117.90	110.47
1	bQ	36	VAL	CA-C-N	5.09	124.40	120.33
1	bQ	36	VAL	C-N-CA	5.09	124.40	120.33
1	bS	111	LEU	N-CA-C	5.09	116.83	111.28
1	bY	146	SER	CB-CA-C	-5.09	103.30	112.76
1	1c	145	TYR	CB-CG-CD2	5.09	128.43	120.80
1	c8	7	GLN	CA-C-N	-5.09	115.54	121.85
1	c8	7	GLN	C-N-CA	-5.09	115.54	121.85
1	ci	5	ASN	CA-CB-CG	-5.09	107.51	112.60
1	ci	198	CYS	CA-C-N	5.09	127.61	120.28
1	ci	198	CYS	C-N-CA	5.09	127.61	120.28
1	1e	177	ALA	CA-C-O	5.09	126.94	121.44
1	cT	192	GLN	CB-CA-C	-5.09	102.67	110.81
1	cZ	29	GLU	O-C-N	-5.09	114.80	122.28
1	1i	176	GLN	CA-C-O	5.09	126.71	120.55
1	d9	199	LYS	O-C-N	-5.09	116.73	122.12
1	dm	68	MET	N-CA-C	5.09	116.83	111.28
1	dn	157	PRO	CA-C-N	5.09	127.10	120.28
1	dn	157	PRO	C-N-CA	5.09	127.10	120.28
1	dA	15	ILE	N-CA-CB	5.09	116.34	110.49
1	dD	120	HIS	CG-CD2-NE2	5.09	112.29	107.20
1	dY	166	ASP	N-CA-CB	-5.09	102.64	110.12
1	e5	184	TRP	CA-C-O	5.09	125.94	120.55
1	er	148	THR	O-C-N	-5.09	115.82	122.59
1	ez	44	SER	N-CA-CB	5.09	117.99	110.56
1	f9	27	VAL	N-CA-C	-5.09	105.53	110.42
1	fs	62	HIS	CB-CG-ND1	-5.09	115.07	122.70
1	ft	110	THR	O-C-N	-5.09	116.98	123.24
1	g7	132	ARG	CB-CG-CD	5.09	123.00	111.30
1	1B	214	MET	CA-C-O	-5.09	115.46	120.90
1	q	201	ILE	N-CA-CB	5.09	119.63	112.15
1	v	87	HIS	CB-CA-C	5.09	118.21	109.51
1	3	90	PRO	CA-C-O	-5.09	115.61	121.36
1	L	18	ARG	CA-C-O	5.09	125.85	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	O	143	ARG	N-CA-CB	-5.09	102.64	110.12
1	T	147	PRO	CA-C-N	5.09	128.43	120.75
1	T	147	PRO	C-N-CA	5.09	128.43	120.75
1	g8	103	ASP	CA-C-N	5.09	127.43	120.46
1	g8	103	ASP	C-N-CA	5.09	127.43	120.46
1	g9	153	ILE	N-CA-C	5.09	115.09	107.51
1	gl	92	GLU	O-C-N	-5.09	116.45	121.18
1	gm	51	ASP	CB-CA-C	-5.09	100.91	110.67
1	gx	70	LYS	CA-C-N	5.09	127.05	120.44
1	gx	70	LYS	C-N-CA	5.09	127.05	120.44
1	gH	122	PRO	CA-C-N	5.09	125.02	119.78
1	gH	122	PRO	C-N-CA	5.09	125.02	119.78
1	gW	132	ARG	CA-C-N	5.09	127.51	120.29
1	gW	132	ARG	C-N-CA	5.09	127.51	120.29
1	gX	190	LEU	CA-C-O	5.09	126.31	120.71
1	hg	214	MET	CG-SD-CE	-5.09	89.71	100.90
1	hm	15	ILE	N-CA-C	5.09	116.78	109.51
1	ht	213	GLU	N-CA-C	5.09	116.83	111.28
1	hv	139	ASN	O-C-N	-5.09	116.73	122.12
1	hw	56	LEU	N-CA-CB	-5.09	102.51	110.44
1	hD	221	VAL	CA-C-N	5.09	125.63	119.98
1	hD	221	VAL	C-N-CA	5.09	125.63	119.98
1	hE	181	VAL	CB-CA-C	-5.09	105.36	112.02
1	hJ	23	TRP	CG-CD2-CE3	-5.09	128.81	133.90
1	ia	125	PRO	CA-C-N	5.09	128.51	120.47
1	ia	125	PRO	C-N-CA	5.09	128.51	120.47
1	id	23	TRP	N-CA-CB	-5.09	102.64	110.01
1	1O	103	ASP	CA-C-O	5.09	125.64	119.38
1	1P	112	GLN	CA-C-N	5.09	127.05	120.44
1	1P	112	GLN	C-N-CA	5.09	127.05	120.44
1	1P	185	MET	CG-SD-CE	-5.09	89.71	100.90
1	ir	52	LEU	CA-C-N	5.09	127.35	120.38
1	ir	52	LEU	C-N-CA	5.09	127.35	120.38
1	iu	211	LEU	O-C-N	-5.09	116.83	122.07
1	iC	51	ASP	CA-C-N	5.09	127.10	120.28
1	iC	51	ASP	C-N-CA	5.09	127.10	120.28
1	iC	91	ILE	CB-CA-C	-5.09	104.81	110.96
1	iD	157	PRO	N-CA-C	5.09	120.23	113.57
1	iE	164	TYR	O-C-N	-5.09	116.80	122.09
1	iQ	154	ARG	N-CA-CB	5.09	117.74	110.06
1	j3	161	PHE	N-CA-C	5.09	121.64	110.80
1	j9	126	VAL	N-CA-C	5.09	115.81	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jh	92	GLU	O-C-N	-5.09	115.47	121.32
1	jj	173	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	1W	173	ARG	CB-CG-CD	5.09	123.00	111.30
1	jy	206	GLY	N-CA-C	-5.09	101.96	112.34
1	jz	223	GLY	CA-C-N	5.09	124.39	118.85
1	jz	223	GLY	C-N-CA	5.09	124.39	118.85
1	jF	200	THR	N-CA-C	5.09	116.83	111.28
1	jI	97	ARG	CA-C-N	5.09	127.49	120.67
1	jI	97	ARG	C-N-CA	5.09	127.49	120.67
1	1Y	179	GLN	CA-C-N	5.09	127.10	120.28
1	1Y	179	GLN	C-N-CA	5.09	127.10	120.28
1	k0	128	GLU	N-CA-C	-5.09	105.43	111.69
1	20	118	MET	N-CA-CB	5.09	117.60	110.12
1	kq	146	SER	O-C-N	-5.09	115.47	121.32
1	ku	213	GLU	CA-C-N	5.09	127.05	120.44
1	ku	213	GLU	C-N-CA	5.09	127.05	120.44
1	kv	102	SER	CA-C-O	5.09	125.94	120.55
1	kC	1	PRO	CA-N-CD	-5.09	104.88	112.00
1	kC	143	ARG	N-CA-C	5.09	116.51	111.07
1	kD	164	TYR	N-CA-CB	5.09	117.39	110.01
1	kL	16	SER	O-C-N	-5.09	115.73	121.43
1	kM	135	ILE	CA-C-N	5.09	127.51	120.29
1	kM	135	ILE	C-N-CA	5.09	127.51	120.29
1	kM	194	ALA	CA-C-O	5.09	126.78	121.19
1	kP	17	PRO	CB-CA-C	5.09	120.14	112.21
1	kR	198	CYS	N-CA-C	5.09	116.90	111.36
1	kW	142	VAL	CA-C-O	5.09	126.24	120.95
1	25	216	THR	CA-C-O	5.09	125.58	119.43
1	l4	203	LYS	N-CA-C	5.09	116.82	111.28
1	26	61	GLY	CA-C-N	5.09	130.04	122.82
1	26	61	GLY	C-N-CA	5.09	130.04	122.82
1	ld	107	THR	O-C-N	-5.09	115.31	121.92
1	li	91	ILE	O-C-N	-5.09	116.74	122.94
1	ln	210	THR	CB-CA-C	5.09	120.85	109.56
1	lp	31	ALA	N-CA-C	5.09	121.64	110.80
1	lr	115	ILE	O-C-N	5.09	126.88	121.89
1	lr	169	TYR	CB-CG-CD1	-5.09	113.17	120.80
1	ly	93	PRO	O-C-N	5.09	128.86	123.01
1	lB	154	ARG	CA-C-O	5.09	126.43	120.43
1	lF	100	ARG	O-C-N	-5.09	116.39	122.65
1	lI	59	VAL	O-C-N	-5.09	117.13	122.83
1	2a	124	ILE	N-CA-C	-5.09	102.51	107.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2n	38	PRO	CA-C-N	5.09	127.60	120.28
1	2n	38	PRO	C-N-CA	5.09	127.60	120.28
1	2s	130	TYR	CA-C-O	5.09	126.16	120.82
1	2F	114	GLN	CA-C-N	5.09	128.50	120.47
1	2F	114	GLN	C-N-CA	5.09	128.50	120.47
1	2J	27	VAL	O-C-N	-5.09	116.94	121.87
1	2L	154	ARG	CG-CD-NE	-5.09	100.81	112.00
1	2S	224	PRO	N-CA-CB	-5.09	98.13	103.52
1	2X	128	GLU	CA-C-N	5.09	126.97	120.56
1	2X	128	GLU	C-N-CA	5.09	126.97	120.56
1	3c	55	MET	N-CA-CB	5.09	117.60	110.12
1	3c	100	ARG	CA-C-N	5.09	126.50	120.14
1	3c	100	ARG	C-N-CA	5.09	126.50	120.14
1	3h	97	ARG	CA-C-O	-5.09	113.24	120.51
1	3m	22	ALA	CA-C-O	5.09	125.94	120.55
1	3n	133	TRP	N-CA-C	5.09	116.82	111.28
1	3o	86	VAL	CB-CA-C	5.09	118.16	110.63
1	3x	95	GLN	CA-C-O	5.09	127.15	121.40
1	3C	142	VAL	O-C-N	-5.09	116.92	121.91
1	3E	43	LEU	CA-C-O	5.09	125.81	120.42
1	3F	118	MET	CA-C-O	5.09	125.64	119.38
1	3G	159	GLU	CA-C-O	5.09	124.89	119.80
1	3G	165	VAL	CA-C-N	5.09	127.05	120.44
1	3G	165	VAL	C-N-CA	5.09	127.05	120.44
1	3K	164	TYR	N-CA-C	5.09	117.21	111.11
1	3Y	195	ASN	O-C-N	-5.09	115.86	121.66
1	45	27	VAL	CA-C-O	-5.09	115.46	120.85
1	46	227	LYS	CA-C-O	5.09	127.32	121.47
1	49	229	ARG	NE-CZ-NH2	-5.09	114.62	119.20
1	4d	132	ARG	NH1-CZ-NH2	-5.09	112.69	119.30
1	4e	74	ASN	OD1-CG-ND2	-5.09	117.51	122.60
1	4e	107	THR	N-CA-CB	5.09	117.78	110.20
1	4m	132	ARG	CB-CA-C	5.09	118.86	110.88
1	4B	143	ARG	CA-C-N	5.09	127.36	120.44
1	4B	143	ARG	C-N-CA	5.09	127.36	120.44
1	4D	16	SER	O-C-N	-5.09	116.03	121.42
1	4J	148	THR	CA-CB-OG1	5.09	117.23	109.60
1	4M	38	PRO	CB-CA-C	5.09	119.50	111.31
1	4X	154	ARG	NE-CZ-NH1	-5.09	116.41	121.50
1	50	125	PRO	N-CA-CB	-5.09	98.74	102.35
1	5j	214	MET	CA-C-N	5.09	130.04	121.14
1	5j	214	MET	C-N-CA	5.09	130.04	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5o	148	THR	CA-CB-OG1	5.09	117.23	109.60
1	5p	133	TRP	CA-C-O	-5.09	115.16	120.55
1	5t	210	THR	CA-CB-OG1	5.09	117.23	109.60
1	5z	63	GLN	N-CA-CB	5.09	117.39	110.01
1	5E	153	ILE	N-CA-C	5.09	116.95	109.63
1	5X	1	PRO	N-CA-CB	5.09	108.60	103.00
1	62	39	MET	CA-C-N	5.09	127.10	120.28
1	62	39	MET	C-N-CA	5.09	127.10	120.28
1	63	41	SER	CA-C-N	5.09	127.09	120.28
1	63	41	SER	C-N-CA	5.09	127.09	120.28
1	68	110	THR	CA-C-N	5.09	127.05	120.44
1	68	110	THR	C-N-CA	5.09	127.05	120.44
1	6e	222	GLY	CA-C-N	5.09	129.85	121.87
1	6e	222	GLY	C-N-CA	5.09	129.85	121.87
1	6g	163	ASP	CA-CB-CG	5.09	117.69	112.60
1	6o	18	ARG	NH1-CZ-NH2	-5.09	112.69	119.30
1	6s	94	GLY	O-C-N	-5.09	116.50	122.50
1	6t	82	ARG	O-C-N	5.09	127.95	122.15
1	6y	77	ALA	CB-CA-C	-5.09	100.90	110.67
1	6B	219	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	6E	64	ALA	CA-C-O	5.09	125.94	120.55
1	6V	196	PRO	CA-C-N	5.09	127.36	120.44
1	6V	196	PRO	C-N-CA	5.09	127.36	120.44
1	6X	5	ASN	CA-C-N	5.09	129.36	122.19
1	6X	5	ASN	C-N-CA	5.09	129.36	122.19
1	76	90	PRO	CA-C-N	5.09	130.03	123.11
1	76	90	PRO	C-N-CA	5.09	130.03	123.11
1	7v	54	THR	CA-C-N	5.09	127.35	120.38
1	7v	54	THR	C-N-CA	5.09	127.35	120.38
1	7B	110	THR	O-C-N	-5.09	117.24	122.94
1	7G	144	MET	N-CA-C	5.09	117.56	111.71
1	7Q	169	TYR	N-CA-C	5.09	116.51	111.07
1	7U	185	MET	CG-SD-CE	-5.09	89.71	100.90
1	85	183	ASN	OD1-CG-ND2	-5.09	117.51	122.60
1	87	122	PRO	CA-C-N	5.09	126.20	119.84
1	87	122	PRO	C-N-CA	5.09	126.20	119.84
1	89	4	GLN	O-C-N	-5.09	115.82	122.59
1	8f	54	THR	O-C-N	-5.09	116.73	122.12
1	8g	71	GLU	O-C-N	-5.09	116.73	122.12
1	8g	179	GLN	CA-C-N	5.09	127.10	120.28
1	8g	179	GLN	C-N-CA	5.09	127.10	120.28
1	8m	53	ASN	O-C-N	-5.09	116.73	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8m	115	ILE	CA-CB-CG1	5.09	119.05	110.40
1	8p	18	ARG	NE-CZ-NH1	5.09	126.59	121.50
1	8p	194	ALA	N-CA-C	5.09	117.27	110.35
1	8y	34	PRO	CA-C-N	5.09	131.26	121.54
1	8y	34	PRO	C-N-CA	5.09	131.26	121.54
1	8G	203	LYS	CB-CA-C	5.09	119.50	110.85
1	8J	226	HIS	CB-CG-ND1	5.09	130.33	122.70
1	8X	86	VAL	O-C-N	5.09	128.43	122.99
1	8X	204	ALA	N-CA-C	-5.09	106.58	112.89
1	90	212	GLU	CA-C-O	5.09	126.16	120.82
1	91	124	ILE	O-C-N	-5.09	116.98	121.61
1	96	227	LYS	CB-CA-C	5.09	119.17	110.01
1	9b	190	LEU	CA-C-N	5.09	127.43	120.46
1	9b	190	LEU	C-N-CA	5.09	127.43	120.46
1	9i	50	GLN	CA-C-N	5.09	127.41	120.54
1	9i	50	GLN	C-N-CA	5.09	127.41	120.54
1	9k	80	TRP	CB-CG-CD2	-5.09	119.68	126.80
1	9p	66	MET	CA-C-O	5.09	125.81	120.42
1	9A	62	HIS	CA-C-N	5.09	127.51	120.29
1	9A	62	HIS	C-N-CA	5.09	127.51	120.29
1	9E	23	TRP	CA-C-N	5.09	127.43	120.46
1	9E	23	TRP	C-N-CA	5.09	127.43	120.46
1	9E	82	ARG	CB-CA-C	-5.09	102.34	110.79
1	9F	132	ARG	N-CA-C	5.09	116.82	111.28
1	9M	128	GLU	CA-C-N	5.09	127.70	120.53
1	9M	128	GLU	C-N-CA	5.09	127.70	120.53
1	Y	162	ARG	CA-C-N	5.09	127.51	120.29
1	Y	162	ARG	C-N-CA	5.09	127.51	120.29
1	a2	19	THR	N-CA-C	5.09	116.51	111.07
1	a3	41	SER	O-C-N	-5.09	116.73	122.12
1	al	92	GLU	CA-C-N	5.09	126.20	119.84
1	al	92	GLU	C-N-CA	5.09	126.20	119.84
1	am	96	MET	CA-C-O	5.09	126.77	120.92
1	an	189	LEU	CA-C-N	5.09	131.25	121.54
1	an	189	LEU	C-N-CA	5.09	131.25	121.54
1	ap	173	ARG	N-CA-CB	5.09	118.16	110.28
1	aw	82	ARG	NH1-CZ-NH2	-5.09	112.69	119.30
1	az	180	GLU	CA-C-N	5.09	127.43	120.46
1	az	180	GLU	C-N-CA	5.09	127.43	120.46
1	aJ	66	MET	O-C-N	-5.09	116.27	122.22
1	aJ	158	LYS	N-CA-C	-5.09	105.55	112.26
1	aK	219	GLN	N-CA-C	5.09	119.44	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aL	131	LYS	CA-C-N	5.09	127.51	120.29
1	aL	131	LYS	C-N-CA	5.09	127.51	120.29
1	aL	134	ILE	CB-CA-C	5.09	119.01	112.14
1	b8	48	THR	CB-CA-C	5.09	116.69	108.91
1	bh	163	ASP	CA-CB-CG	5.09	117.69	112.60
1	bl	192	GLN	N-CA-CB	-5.09	103.09	110.47
1	bm	11	VAL	CA-C-O	5.09	125.75	120.36
1	bm	74	ASN	N-CA-C	5.09	116.91	111.36
1	18	19	THR	CA-C-N	5.09	127.51	120.29
1	18	19	THR	C-N-CA	5.09	127.51	120.29
1	bs	73	ILE	O-C-N	5.09	126.89	121.91
1	bx	140	LYS	CB-CA-C	-5.09	102.35	110.79
1	by	215	MET	CA-C-N	5.09	127.60	120.28
1	by	215	MET	C-N-CA	5.09	127.60	120.28
1	bA	151	LEU	CB-CA-C	5.09	120.04	110.63
1	bC	37	ILE	CA-C-N	5.09	124.26	118.97
1	bC	37	ILE	C-N-CA	5.09	124.26	118.97
1	bD	212	GLU	CA-C-O	5.09	125.94	120.70
1	bH	35	GLU	CB-CA-C	-5.09	101.22	110.63
1	1b	169	TYR	CA-C-O	5.09	125.94	120.55
1	c0	211	LEU	CB-CA-C	-5.09	102.89	110.88
1	1c	53	ASN	O-C-N	-5.09	116.73	122.12
1	ch	121	ASN	O-C-N	-5.09	116.86	121.39
1	ch	179	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	ci	114	GLN	N-CA-C	5.09	116.82	111.28
1	cn	136	LEU	CA-C-N	5.09	129.84	120.79
1	cn	136	LEU	C-N-CA	5.09	129.84	120.79
1	co	195	ASN	CA-C-N	5.09	126.20	119.84
1	co	195	ASN	C-N-CA	5.09	126.20	119.84
1	cw	18	ARG	N-CA-CB	5.09	117.52	109.94
1	cC	184	TRP	CD2-CE2-CZ2	5.09	127.49	122.40
1	cH	222	GLY	CA-C-N	5.09	129.86	121.87
1	cH	222	GLY	C-N-CA	5.09	129.86	121.87
1	cP	7	GLN	CB-CG-CD	5.09	121.25	112.60
1	cR	58	THR	CA-CB-OG1	5.09	117.23	109.60
1	1h	175	GLU	N-CA-C	5.09	118.24	110.20
1	d4	196	PRO	CA-C-N	5.09	128.04	120.31
1	d4	196	PRO	C-N-CA	5.09	128.04	120.31
1	dj	226	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	dk	130	TYR	CA-C-N	5.09	127.09	120.28
1	dk	130	TYR	C-N-CA	5.09	127.09	120.28
1	dl	186	THR	CA-C-O	-5.09	115.16	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	do	152	ASP	CA-C-N	5.09	127.40	120.63
1	do	152	ASP	C-N-CA	5.09	127.40	120.63
1	dp	186	THR	CA-C-N	5.09	127.51	120.29
1	dp	186	THR	C-N-CA	5.09	127.51	120.29
1	dt	159	GLU	CA-C-N	5.09	125.09	119.90
1	dt	159	GLU	C-N-CA	5.09	125.09	119.90
1	dB	100	ARG	NH1-CZ-NH2	5.09	125.91	119.30
1	dC	117	TRP	CB-CG-CD2	5.09	133.92	126.80
1	dG	59	VAL	N-CA-C	5.09	115.66	107.98
1	1n	195	ASN	CB-CA-C	5.09	118.92	109.51
1	dU	78	ALA	CA-C-N	5.09	127.61	120.28
1	dU	78	ALA	C-N-CA	5.09	127.61	120.28
1	dY	92	GLU	CB-CA-C	5.09	118.92	109.51
1	1o	131	LYS	CA-C-N	5.09	127.10	120.28
1	1o	131	LYS	C-N-CA	5.09	127.10	120.28
1	eh	113	GLU	O-C-N	-5.09	116.35	122.15
1	ei	71	GLU	N-CA-C	5.09	116.91	111.36
1	ej	21	ASN	CA-CB-CG	-5.09	107.51	112.60
1	em	89	GLY	O-C-N	-5.09	116.68	121.77
1	ey	179	GLN	O-C-N	-5.09	116.83	122.07
1	eB	24	VAL	N-CA-CB	-5.09	101.56	110.77
1	eM	186	THR	O-C-N	-5.09	116.60	122.09
1	eO	164	TYR	N-CA-C	5.09	116.51	111.07
1	eP	179	GLN	O-C-N	-5.09	116.73	122.12
1	eU	148	THR	O-C-N	-5.09	117.02	123.17
1	f2	206	GLY	CA-C-N	-5.09	114.42	119.56
1	f2	206	GLY	C-N-CA	-5.09	114.42	119.56
1	fa	2	ILE	N-CA-C	-5.09	100.42	107.80
1	fb	198	CYS	CA-C-N	5.09	127.10	120.28
1	fb	198	CYS	C-N-CA	5.09	127.10	120.28
1	fc	152	ASP	CA-C-O	5.09	125.51	119.56
1	fj	9	GLN	CA-C-O	-5.09	115.06	120.40
1	1w	194	ALA	CA-C-O	5.09	127.79	121.99
1	fl	130	TYR	N-CA-C	5.09	116.90	111.36
1	fo	178	SER	CA-C-N	5.09	127.61	120.28
1	fo	178	SER	C-N-CA	5.09	127.61	120.28
1	fy	195	ASN	N-CA-C	5.09	116.10	109.64
1	fE	221	VAL	CA-CB-CG1	5.09	119.05	110.40
1	fG	120	HIS	CE1-NE2-CD2	-5.09	103.91	109.00
1	fK	69	LEU	CA-C-N	5.09	127.05	120.44
1	fK	69	LEU	C-N-CA	5.09	127.05	120.44
1	fO	226	HIS	CE1-NE2-CD2	-5.09	103.91	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g4	100	ARG	CD-NE-CZ	-5.09	117.28	124.40
1	b	131	LYS	N-CA-C	5.09	117.48	111.33
1	d	67	GLN	CB-CA-C	-5.09	101.39	110.70
1	e	97	ARG	N-CA-C	5.09	121.64	110.80
1	g	194	ALA	CA-C-N	5.09	134.21	121.80
1	g	194	ALA	C-N-CA	5.09	134.21	121.80
1	h	21	ASN	O-C-N	-5.09	116.83	122.07
1	j	114	GLN	OE1-CD-NE2	-5.09	117.51	122.60
1	p	20	LEU	N-CA-C	5.09	116.83	111.28
1	s	215	MET	CA-C-N	5.09	127.05	120.44
1	s	215	MET	C-N-CA	5.09	127.05	120.44
1	F	184	TRP	CB-CG-CD1	-5.09	119.27	126.90
1	H	171	THR	CA-C-O	5.09	125.89	120.24
1	K	208	ALA	CA-C-N	5.09	127.99	120.82
1	K	208	ALA	C-N-CA	5.09	127.99	120.82
1	L	27	VAL	CA-C-O	-5.09	115.46	120.85
1	Q	134	ILE	N-CA-C	5.09	115.81	110.62
1	9	214	MET	N-CA-C	5.09	116.82	111.28
1	gv	87	HIS	O-C-N	-5.08	116.62	122.87
1	1E	66	MET	O-C-N	5.08	127.51	122.12
1	gM	104	ILE	CB-CA-C	-5.08	105.28	112.14
1	gN	32	PHE	CA-C-N	-5.08	116.64	123.96
1	gN	32	PHE	C-N-CA	-5.08	116.64	123.96
1	gY	82	ARG	CD-NE-CZ	5.08	131.52	124.40
1	he	89	GLY	CA-C-N	5.08	125.48	119.99
1	he	89	GLY	C-N-CA	5.08	125.48	119.99
1	hk	42	ALA	N-CA-C	5.08	117.21	111.11
1	1J	208	ALA	N-CA-C	-5.08	101.18	108.60
1	hy	207	PRO	N-CA-C	-5.08	107.50	113.86
1	hO	166	ASP	O-C-N	-5.08	116.83	122.07
1	ip	155	GLN	CB-CG-CD	5.08	121.25	112.60
1	iu	205	LEU	N-CA-C	-5.08	106.21	112.72
1	iA	87	HIS	CA-CB-CG	-5.08	108.72	113.80
1	iT	83	LEU	N-CA-C	5.08	116.82	111.28
1	jn	205	LEU	O-C-N	-5.08	116.02	122.27
1	jo	150	ILE	CA-C-O	5.08	126.24	120.95
1	jz	66	MET	CA-C-N	5.08	127.36	120.44
1	jz	66	MET	C-N-CA	5.08	127.36	120.44
1	jL	149	SER	O-C-N	-5.08	116.67	122.93
1	jO	35	GLU	N-CA-C	5.08	119.24	113.19
1	jO	121	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	k1	117	TRP	CA-C-O	5.08	125.94	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kc	96	MET	CA-C-N	5.08	131.25	121.54
1	kc	96	MET	C-N-CA	5.08	131.25	121.54
1	kp	95	GLN	O-C-N	-5.08	117.45	123.25
1	kW	195	ASN	CA-CB-CG	5.08	117.69	112.60
1	kX	137	GLY	CA-C-O	-5.08	115.27	120.66
1	lc	84	HIS	CB-CG-CD2	-5.08	124.59	131.20
1	ld	168	PHE	O-C-N	-5.08	116.83	122.07
1	lu	182	LYS	N-CA-C	5.08	118.74	112.54
1	lH	64	ALA	O-C-N	-5.08	115.62	122.23
1	lK	100	ARG	CD-NE-CZ	5.08	131.52	124.40
1	lM	147	PRO	N-CD-CG	5.08	110.83	103.20
1	2F	80	TRP	N-CA-C	-5.08	105.63	111.07
1	2G	18	ARG	N-CA-CB	5.08	117.38	110.01
1	2H	178	SER	CA-C-N	5.08	127.05	120.44
1	2H	178	SER	C-N-CA	5.08	127.05	120.44
1	2L	17	PRO	N-CA-CB	5.08	108.59	103.25
1	2N	66	MET	CG-SD-CE	-5.08	89.71	100.90
1	37	19	THR	CB-CA-C	-5.08	102.90	110.88
1	3s	166	ASP	CA-CB-CG	-5.08	107.52	112.60
1	3B	39	MET	CA-C-O	5.08	126.16	120.82
1	3K	159	GLU	CA-C-N	5.08	125.08	119.89
1	3K	159	GLU	C-N-CA	5.08	125.08	119.89
1	3N	23	TRP	CE2-CD2-CE3	-5.08	113.72	118.80
1	3Y	113	GLU	CG-CD-OE2	5.08	130.09	118.40
1	3Z	69	LEU	O-C-N	5.08	127.31	122.07
1	4h	184	TRP	CB-CG-CD1	-5.08	119.27	126.90
1	4m	62	HIS	CB-CG-ND1	-5.08	115.07	122.70
1	4o	135	ILE	N-CA-CB	5.08	119.97	110.77
1	50	86	VAL	N-CA-C	5.08	115.80	108.93
1	5U	98	GLU	CA-C-N	5.08	126.20	119.84
1	5U	98	GLU	C-N-CA	5.08	126.20	119.84
1	6A	82	ARG	N-CA-C	5.08	118.64	112.23
1	6T	84	HIS	CA-C-N	5.08	126.20	119.84
1	6T	84	HIS	C-N-CA	5.08	126.20	119.84
1	78	89	GLY	CA-C-N	5.08	125.09	119.90
1	78	89	GLY	C-N-CA	5.08	125.09	119.90
1	7a	179	GLN	OE1-CD-NE2	5.08	127.69	122.60
1	7c	12	HIS	CB-CG-ND1	5.08	130.33	122.70
1	7p	20	LEU	CA-C-N	5.08	127.09	120.28
1	7p	20	LEU	C-N-CA	5.08	127.09	120.28
1	7r	162	ARG	CG-CD-NE	-5.08	100.81	112.00
1	7s	50	GLN	CA-C-N	5.08	127.05	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7s	50	GLN	C-N-CA	5.08	127.05	120.44
1	7G	33	SER	N-CA-CB	-5.08	101.32	110.37
1	7J	26	VAL	CA-CB-CG1	5.08	119.04	110.40
1	7Z	203	LYS	CA-C-N	5.08	127.05	120.44
1	7Z	203	LYS	C-N-CA	5.08	127.05	120.44
1	8c	18	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	8n	219	GLN	O-C-N	-5.08	116.69	122.89
1	8D	145	TYR	CB-CG-CD2	5.08	128.43	120.80
1	8M	139	ASN	O-C-N	-5.08	116.83	122.07
1	8N	138	LEU	CA-C-N	5.08	127.80	120.38
1	8N	138	LEU	C-N-CA	5.08	127.80	120.38
1	9v	59	VAL	CA-C-N	5.08	131.38	121.41
1	9v	59	VAL	C-N-CA	5.08	131.38	121.41
1	9z	19	THR	CA-C-N	5.08	127.05	120.44
1	9z	19	THR	C-N-CA	5.08	127.05	120.44
1	9H	75	GLU	N-CA-C	5.08	116.82	111.28
1	9K	80	TRP	CH2-CZ2-CE2	5.08	124.11	117.50
1	9V	124	ILE	N-CA-C	-5.08	102.52	107.55
1	9V	210	THR	N-CA-CB	5.08	117.49	110.17
1	ao	21	ASN	CB-CG-ND2	5.08	124.03	116.40
1	aA	59	VAL	CA-C-N	5.08	125.59	120.00
1	aA	59	VAL	C-N-CA	5.08	125.59	120.00
1	b5	126	VAL	N-CA-C	5.08	115.81	110.62
1	b9	50	GLN	O-C-N	-5.08	116.83	122.07
1	b9	66	MET	O-C-N	-5.08	116.73	122.12
1	bA	16	SER	CA-C-N	5.08	125.12	119.32
1	bA	16	SER	C-N-CA	5.08	125.12	119.32
1	bS	15	ILE	N-CA-C	5.08	116.14	109.58
1	c5	111	LEU	CA-C-O	5.08	125.94	120.55
1	1c	198	CYS	O-C-N	-5.08	115.76	122.42
1	cb	224	PRO	CA-C-O	-5.08	115.61	121.36
1	cd	136	LEU	CA-C-N	5.08	125.58	119.94
1	cd	136	LEU	C-N-CA	5.08	125.58	119.94
1	1f	167	ARG	N-CA-C	-5.08	105.63	111.07
1	cA	147	PRO	O-C-N	5.08	129.50	122.64
1	cB	108	THR	CB-CA-C	-5.08	101.58	110.17
1	cF	105	ALA	CA-C-O	5.08	125.78	119.12
1	cJ	121	ASN	CB-CA-C	-5.08	102.64	110.62
1	cX	10	MET	CA-C-O	5.08	126.94	121.55
1	d3	188	THR	CB-CA-C	-5.08	102.80	110.83
1	dg	146	SER	CA-C-O	-5.08	114.76	120.25
1	dp	28	GLU	O-C-N	-5.08	116.35	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dw	71	GLU	CA-C-N	5.08	127.41	120.54
1	dw	71	GLU	C-N-CA	5.08	127.41	120.54
1	dy	133	TRP	CA-C-N	5.08	126.97	120.56
1	dy	133	TRP	C-N-CA	5.08	126.97	120.56
1	dT	209	ALA	N-CA-C	5.08	117.72	110.24
1	1o	62	HIS	N-CA-C	5.08	118.64	111.52
1	ei	70	LYS	CA-C-N	5.08	127.51	120.29
1	ei	70	LYS	C-N-CA	5.08	127.51	120.29
1	er	84	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	ew	124	ILE	N-CA-C	-5.08	103.12	108.15
1	1s	61	GLY	O-C-N	-5.08	118.73	123.87
1	eV	74	ASN	CA-C-N	5.08	128.04	120.31
1	eV	74	ASN	C-N-CA	5.08	128.04	120.31
1	1u	96	MET	CG-SD-CE	-5.08	89.71	100.90
1	f1	30	LYS	N-CA-C	-5.08	107.11	113.72
1	fk	54	THR	N-CA-C	5.08	116.82	111.28
1	fm	8	GLY	N-CA-C	5.08	121.53	112.22
1	fp	230	VAL	CA-CB-CG1	5.08	119.05	110.40
1	1x	97	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	fu	154	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	fB	52	LEU	O-C-N	-5.08	116.35	122.15
1	1A	222	GLY	CA-C-N	5.08	129.85	121.87
1	1A	222	GLY	C-N-CA	5.08	129.85	121.87
1	i	167	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	s	170	LYS	CB-CA-C	5.08	118.86	110.88
1	3	13	GLN	O-C-N	-5.08	117.07	123.27
1	G	34	PRO	N-CD-CG	5.08	110.83	103.20
1	N	104	ILE	N-CA-C	5.08	115.81	110.62
1	N	196	PRO	N-CD-CG	-5.08	95.57	103.20
1	V	165	VAL	CA-C-N	5.08	127.05	120.44
1	V	165	VAL	C-N-CA	5.08	127.05	120.44
1	g8	19	THR	CA-C-N	5.08	127.09	120.28
1	g8	19	THR	C-N-CA	5.08	127.09	120.28
1	gb	100	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	gc	38	PRO	CA-C-N	5.08	127.05	120.44
1	gc	38	PRO	C-N-CA	5.08	127.05	120.44
1	gk	175	GLU	N-CA-C	5.08	117.60	110.23
1	gr	41	SER	N-CA-C	5.08	116.82	111.28
1	gw	58	THR	N-CA-CB	5.08	117.59	110.12
1	gw	139	ASN	CA-C-N	5.08	127.05	120.44
1	gw	139	ASN	C-N-CA	5.08	127.05	120.44
1	gG	111	LEU	O-C-N	-5.08	116.73	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gJ	228	ALA	N-CA-C	5.08	116.97	108.23
1	gN	172	LEU	N-CA-C	5.08	116.82	111.28
1	gO	5	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	gO	22	ALA	N-CA-C	5.08	116.82	111.28
1	gR	146	SER	CA-C-O	-5.08	116.03	120.60
1	h1	101	GLY	N-CA-C	5.08	119.03	112.83
1	h1	192	GLN	N-CA-CB	5.08	118.05	110.22
1	1H	192	GLN	CG-CD-NE2	5.08	124.02	116.40
1	h6	126	VAL	CA-C-N	5.08	125.58	119.94
1	h6	126	VAL	C-N-CA	5.08	125.58	119.94
1	hc	151	LEU	CA-C-N	5.08	131.58	122.38
1	hc	151	LEU	C-N-CA	5.08	131.58	122.38
1	he	76	GLU	N-CA-C	5.08	116.82	111.28
1	hf	191	VAL	CA-C-N	5.08	127.80	120.38
1	hf	191	VAL	C-N-CA	5.08	127.80	120.38
1	hj	76	GLU	CA-C-N	5.08	127.09	120.28
1	hj	76	GLU	C-N-CA	5.08	127.09	120.28
1	hl	55	MET	O-C-N	-5.08	116.60	122.09
1	hy	210	THR	CA-CB-OG1	5.08	117.22	109.60
1	hN	40	PHE	N-CA-C	5.08	117.21	111.11
1	hR	56	LEU	N-CA-C	5.08	116.82	111.28
1	i0	215	MET	N-CA-C	-5.08	106.58	112.89
1	1N	144	MET	CA-C-O	5.08	125.94	120.70
1	i5	10	MET	CA-C-N	5.08	130.01	122.94
1	i5	10	MET	C-N-CA	5.08	130.01	122.94
1	i9	76	GLU	CA-C-N	5.08	127.86	120.79
1	i9	76	GLU	C-N-CA	5.08	127.86	120.79
1	ia	74	ASN	CA-C-N	5.08	127.40	120.54
1	ia	74	ASN	C-N-CA	5.08	127.40	120.54
1	ib	163	ASP	CA-CB-CG	5.08	117.68	112.60
1	ii	133	TRP	CA-CB-CG	5.08	123.26	113.60
1	in	175	GLU	CA-C-O	5.08	126.19	120.70
1	iq	128	GLU	CB-CG-CD	-5.08	103.96	112.60
1	is	24	VAL	CA-C-N	5.08	128.04	120.31
1	is	24	VAL	C-N-CA	5.08	128.04	120.31
1	iy	163	ASP	N-CA-CB	5.08	117.59	110.12
1	iH	17	PRO	CA-C-N	5.08	127.09	120.28
1	iH	17	PRO	C-N-CA	5.08	127.09	120.28
1	iM	228	ALA	N-CA-CB	-5.08	102.65	110.12
1	iR	229	ARG	N-CA-C	5.08	117.26	110.35
1	iU	21	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	j2	40	PHE	CA-C-O	5.08	125.81	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j3	69	LEU	O-C-N	-5.08	116.36	122.15
1	j5	76	GLU	N-CA-C	5.08	116.51	111.07
1	jp	28	GLU	CB-CA-C	-5.08	102.35	110.79
1	1W	126	VAL	CB-CA-C	-5.08	105.37	111.88
1	jz	151	LEU	CA-C-O	5.08	125.30	119.35
1	jz	152	ASP	CA-C-O	5.08	125.30	119.35
1	jH	71	GLU	CA-C-N	5.08	127.35	120.44
1	jH	71	GLU	C-N-CA	5.08	127.35	120.44
1	jM	21	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	jT	143	ARG	CG-CD-NE	-5.08	100.82	112.00
1	jX	200	THR	CA-CB-OG1	5.08	117.23	109.60
1	k1	132	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	k1	191	VAL	N-CA-C	-5.08	106.11	113.07
1	k3	75	GLU	N-CA-C	5.08	116.90	111.36
1	k3	171	THR	N-CA-C	5.08	116.51	111.07
1	k9	25	LYS	N-CA-C	5.08	116.82	111.28
1	ka	74	ASN	CA-CB-CG	5.08	117.68	112.60
1	ka	185	MET	O-C-N	-5.08	116.73	122.12
1	kf	22	ALA	CA-C-N	5.08	127.05	120.44
1	kf	22	ALA	C-N-CA	5.08	127.05	120.44
1	21	48	THR	CA-C-O	-5.08	115.42	120.96
1	21	133	TRP	CD2-CE2-CZ2	-5.08	117.32	122.40
1	km	20	LEU	CA-C-O	-5.08	115.16	120.55
1	ko	123	PRO	N-CA-C	5.08	118.86	111.03
1	kv	160	PRO	N-CA-C	5.08	122.94	112.47
1	kx	108	THR	N-CA-CB	5.08	118.44	110.46
1	23	218	CYS	CA-C-O	5.08	127.78	120.51
1	kG	216	THR	N-CA-CB	5.08	117.68	110.16
1	kZ	20	LEU	N-CA-C	5.08	116.51	111.07
1	kZ	170	LYS	CB-CA-C	-5.08	102.35	110.79
1	l3	176	GLN	N-CA-C	5.08	119.43	113.23
1	l5	143	ARG	N-CA-C	5.08	116.82	111.28
1	la	54	THR	O-C-N	-5.08	116.73	122.12
1	ld	149	SER	CA-C-O	-5.08	115.81	121.81
1	lf	152	ASP	CA-C-N	5.08	127.50	120.49
1	lf	152	ASP	C-N-CA	5.08	127.50	120.49
1	ll	89	GLY	O-C-N	-5.08	116.23	122.03
1	lo	123	PRO	CA-C-O	-5.08	115.79	121.23
1	lq	64	ALA	CA-C-N	5.08	127.51	120.29
1	lq	64	ALA	C-N-CA	5.08	127.51	120.29
1	ly	86	VAL	CA-C-N	5.08	127.99	120.82
1	ly	86	VAL	C-N-CA	5.08	127.99	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lB	56	LEU	N-CA-CB	5.08	117.69	110.06
1	lB	173	ARG	N-CA-C	5.08	117.56	111.71
1	lB	229	ARG	NH1-CZ-NH2	-5.08	112.69	119.30
1	lD	162	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	lK	210	THR	CA-C-N	5.08	127.09	120.28
1	lK	210	THR	C-N-CA	5.08	127.09	120.28
1	lL	129	ILE	N-CA-C	-5.08	105.54	110.42
1	lP	210	THR	CA-CB-OG1	5.08	117.23	109.60
1	2f	153	ILE	CA-C-O	-5.08	114.98	120.47
1	2h	227	LYS	N-CA-C	5.08	121.63	110.80
1	2i	187	GLU	CA-C-O	5.08	125.82	119.97
1	2v	166	ASP	N-CA-C	5.08	116.51	110.97
1	2D	173	ARG	N-CA-C	-5.08	106.24	112.90
1	2H	141	ILE	CA-C-N	5.08	127.42	120.46
1	2H	141	ILE	C-N-CA	5.08	127.42	120.46
1	2O	90	PRO	CA-C-N	5.08	128.37	120.34
1	2O	90	PRO	C-N-CA	5.08	128.37	120.34
1	2O	215	MET	CA-C-O	5.08	125.84	120.10
1	2Q	9	GLN	CB-CA-C	-5.08	100.82	109.51
1	2R	26	VAL	N-CA-CB	5.08	117.45	110.54
1	2V	5	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	2X	165	VAL	N-CA-C	-5.08	105.54	110.42
1	30	5	ASN	CA-CB-CG	-5.08	107.52	112.60
1	30	53	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	32	178	SER	CA-C-O	-5.08	116.14	121.88
1	35	144	MET	N-CA-CB	5.08	117.38	110.01
1	36	162	ARG	CG-CD-NE	-5.08	100.82	112.00
1	38	41	SER	N-CA-C	5.08	116.82	111.28
1	3b	13	GLN	CA-C-N	5.08	127.93	120.71
1	3b	13	GLN	C-N-CA	5.08	127.93	120.71
1	3i	87	HIS	N-CA-C	5.08	116.86	110.91
1	3j	84	HIS	CA-C-N	5.08	125.00	119.76
1	3j	84	HIS	C-N-CA	5.08	125.00	119.76
1	3j	152	ASP	N-CA-C	5.08	118.31	112.57
1	3o	205	LEU	N-CA-CB	5.08	117.59	110.12
1	3p	74	ASN	CA-CB-CG	-5.08	107.52	112.60
1	3r	163	ASP	CB-CA-C	-5.08	102.35	110.79
1	3w	81	ASP	N-CA-CB	-5.08	102.65	110.12
1	3A	190	LEU	CA-C-N	5.08	126.97	120.56
1	3A	190	LEU	C-N-CA	5.08	126.97	120.56
1	3F	3	VAL	CA-C-N	5.08	127.99	120.82
1	3F	3	VAL	C-N-CA	5.08	127.99	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3I	159	GLU	N-CA-CB	5.08	118.83	109.73
1	3J	51	ASP	CB-CA-C	-5.08	102.35	110.79
1	3J	139	ASN	O-C-N	-5.08	116.02	122.27
1	3K	105	ALA	CA-C-N	5.08	130.68	122.09
1	3K	105	ALA	C-N-CA	5.08	130.68	122.09
1	3V	213	GLU	CA-C-N	5.08	127.05	120.44
1	3V	213	GLU	C-N-CA	5.08	127.05	120.44
1	46	164	TYR	CB-CA-C	5.08	119.23	110.79
1	4q	159	GLU	O-C-N	-5.08	115.72	121.36
1	4t	210	THR	O-C-N	-5.08	116.80	122.75
1	4y	96	MET	CA-C-N	5.08	128.29	120.82
1	4y	96	MET	C-N-CA	5.08	128.29	120.82
1	4G	37	ILE	CA-CB-CG1	5.08	119.04	110.40
1	4M	126	VAL	CA-C-O	5.08	126.24	120.95
1	4U	125	PRO	N-CA-C	-5.08	104.94	112.26
1	4Y	202	LEU	CB-CA-C	5.08	120.03	110.63
1	53	18	ARG	NE-CZ-NH2	-5.08	114.62	119.20
1	56	64	ALA	N-CA-C	-5.08	105.63	111.07
1	5c	160	PRO	N-CA-C	5.08	119.07	111.14
1	5f	167	ARG	CA-C-N	5.08	127.09	120.28
1	5f	167	ARG	C-N-CA	5.08	127.09	120.28
1	5k	63	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	5o	177	ALA	N-CA-C	5.08	117.27	110.35
1	5A	133	TRP	O-C-N	-5.08	116.73	122.12
1	5G	217	ALA	O-C-N	-5.08	116.99	122.79
1	5I	87	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	5K	163	ASP	CA-C-N	5.08	128.04	120.31
1	5K	163	ASP	C-N-CA	5.08	128.04	120.31
1	5Q	38	PRO	CA-C-N	5.08	127.05	120.44
1	5Q	38	PRO	C-N-CA	5.08	127.05	120.44
1	5T	154	ARG	CA-C-O	5.08	126.77	120.92
1	64	19	THR	CA-CB-CG2	5.08	119.14	110.50
1	68	14	ALA	CA-C-N	5.08	128.17	120.75
1	68	14	ALA	C-N-CA	5.08	128.17	120.75
1	69	97	ARG	CA-C-N	5.08	128.41	120.68
1	69	97	ARG	C-N-CA	5.08	128.41	120.68
1	6f	185	MET	O-C-N	-5.08	116.73	122.12
1	6v	228	ALA	CA-C-O	5.08	127.77	121.87
1	6w	112	GLN	CA-CB-CG	5.08	124.27	114.10
1	6y	71	GLU	O-C-N	-5.08	116.73	122.12
1	6z	61	GLY	CA-C-O	-5.08	115.10	122.52
1	6E	143	ARG	CD-NE-CZ	5.08	131.52	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6N	159	GLU	CB-CA-C	5.08	115.47	109.47
1	6V	3	VAL	CA-C-N	5.08	128.69	121.42
1	6V	3	VAL	C-N-CA	5.08	128.69	121.42
1	75	134	ILE	N-CA-C	5.08	115.81	110.62
1	7b	198	CYS	CA-C-N	5.08	127.40	120.54
1	7b	198	CYS	C-N-CA	5.08	127.40	120.54
1	7n	7	GLN	CB-CG-CD	5.08	121.24	112.60
1	7v	111	LEU	CA-C-N	5.08	127.60	120.28
1	7v	111	LEU	C-N-CA	5.08	127.60	120.28
1	7x	219	GLN	CG-CD-NE2	5.08	124.03	116.40
1	7L	100	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	7N	185	MET	N-CA-C	5.08	116.82	111.28
1	7U	72	THR	O-C-N	-5.08	116.73	122.12
1	7X	58	THR	CA-C-O	-5.08	115.03	120.42
1	82	16	SER	O-C-N	-5.08	110.24	121.93
1	82	55	MET	N-CA-C	5.08	117.72	111.82
1	83	182	LYS	N-CA-C	5.08	116.82	111.28
1	8a	96	MET	CA-C-N	5.08	127.93	120.71
1	8a	96	MET	C-N-CA	5.08	127.93	120.71
1	8a	164	TYR	CA-CB-CG	5.08	123.05	113.90
1	8b	155	GLN	CA-C-N	5.08	127.87	121.36
1	8b	155	GLN	C-N-CA	5.08	127.87	121.36
1	8g	98	GLU	O-C-N	-5.08	116.78	121.30
1	8o	97	ARG	CA-C-N	5.08	134.20	121.80
1	8o	97	ARG	C-N-CA	5.08	134.20	121.80
1	8o	128	GLU	N-CA-CB	5.08	117.44	110.07
1	8L	161	PHE	O-C-N	5.08	128.00	122.20
1	8M	191	VAL	N-CA-CB	-5.08	103.20	110.52
1	8P	32	PHE	N-CA-C	5.08	118.52	112.72
1	8Q	111	LEU	N-CA-CB	-5.08	102.65	110.12
1	8Y	171	THR	CA-C-N	5.08	127.09	120.28
1	8Y	171	THR	C-N-CA	5.08	127.09	120.28
1	93	219	GLN	N-CA-C	-5.08	105.92	111.82
1	94	84	HIS	CA-C-O	-5.08	114.84	119.62
1	9f	80	TRP	CB-CG-CD2	5.08	133.92	126.80
1	9l	28	GLU	CA-C-O	5.08	125.79	119.79
1	9o	127	GLY	N-CA-C	5.08	118.40	112.50
1	9F	111	LEU	N-CA-C	5.08	116.82	111.28
1	9J	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	9K	182	LYS	N-CA-C	5.08	117.56	111.71
1	9P	123	PRO	O-C-N	-5.08	116.71	123.01
1	9V	80	TRP	CA-C-N	5.08	127.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9V	80	TRP	C-N-CA	5.08	127.09	120.28
1	a0	117	TRP	N-CA-C	5.08	116.51	111.07
1	a4	34	PRO	N-CA-CB	-5.08	98.69	103.52
1	10	138	LEU	CA-C-O	-5.08	115.03	120.42
1	aa	91	ILE	O-C-N	-5.08	117.16	122.95
1	aa	142	VAL	N-CA-CB	-5.08	103.63	110.54
1	ad	228	ALA	CA-C-O	5.08	126.48	120.89
1	ai	52	LEU	N-CA-C	5.08	116.82	111.28
1	an	84	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	aF	132	ARG	NE-CZ-NH2	5.08	123.78	119.20
1	aF	214	MET	CG-SD-CE	-5.08	89.72	100.90
1	14	113	GLU	N-CA-C	-5.08	105.82	111.36
1	aQ	209	ALA	N-CA-C	5.08	117.24	110.53
1	b3	92	GLU	O-C-N	-5.08	115.47	121.32
1	b6	199	LYS	CA-C-O	5.08	125.81	119.97
1	bc	68	MET	CB-CA-C	-5.08	102.90	110.88
1	bj	213	GLU	O-C-N	-5.08	116.73	122.12
1	18	198	CYS	N-CA-CB	5.08	117.38	110.01
1	bw	37	ILE	N-CA-C	5.08	119.86	108.88
1	bx	184	TRP	CA-C-O	-5.08	115.48	120.82
1	by	144	MET	O-C-N	-5.08	116.73	122.12
1	19	208	ALA	N-CA-CB	-5.08	102.66	110.44
1	bE	11	VAL	O-C-N	-5.08	117.41	123.00
1	bG	131	LYS	CB-CA-C	-5.08	102.21	110.85
1	bK	167	ARG	O-C-N	-5.08	116.83	122.07
1	bN	154	ARG	NE-CZ-NH2	5.08	123.78	119.20
1	bP	213	GLU	CA-C-N	5.08	127.09	120.28
1	bP	213	GLU	C-N-CA	5.08	127.09	120.28
1	c7	61	GLY	N-CA-C	-5.08	104.86	112.89
1	c9	136	LEU	CA-C-O	5.08	125.94	120.55
1	cc	53	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	co	142	VAL	CA-C-N	5.08	129.27	121.19
1	co	142	VAL	C-N-CA	5.08	129.27	121.19
1	cr	75	GLU	N-CA-C	5.08	116.82	111.28
1	ct	186	THR	O-C-N	-5.08	116.35	122.15
1	1g	126	VAL	N-CA-CB	5.08	116.50	110.55
1	cM	8	GLY	CA-C-N	-5.08	115.70	122.72
1	cM	8	GLY	C-N-CA	-5.08	115.70	122.72
1	cN	158	LYS	CA-C-O	5.08	126.25	119.59
1	cY	165	VAL	CA-C-O	5.08	126.24	120.95
1	d1	144	MET	N-CA-C	5.08	118.64	112.23
1	d4	173	ARG	NE-CZ-NH1	5.08	126.58	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dd	188	THR	N-CA-CB	5.08	119.08	110.49
1	df	196	PRO	N-CA-C	5.08	120.45	113.84
1	dt	22	ALA	N-CA-CB	-5.08	102.64	110.01
1	du	195	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	1l	23	TRP	CA-C-O	5.08	125.94	120.55
1	dB	199	LYS	N-CA-CB	5.08	117.59	110.12
1	dE	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	dP	194	ALA	N-CA-C	5.08	117.26	110.35
1	dP	203	LYS	CA-C-N	5.08	129.27	120.58
1	dP	203	LYS	C-N-CA	5.08	129.27	120.58
1	1n	101	GLY	CA-C-N	5.08	128.04	120.31
1	1n	101	GLY	C-N-CA	5.08	128.04	120.31
1	dY	111	LEU	CA-C-N	5.08	127.05	120.44
1	dY	111	LEU	C-N-CA	5.08	127.05	120.44
1	e1	81	ASP	O-C-N	-5.08	116.36	122.15
1	e2	111	LEU	CB-CA-C	-5.08	102.35	110.79
1	eb	138	LEU	CA-C-O	-5.08	115.16	120.55
1	ef	102	SER	N-CA-C	5.08	117.72	111.82
1	ei	57	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	et	119	THR	O-C-N	-5.08	116.10	122.35
1	ev	193	ASN	CA-C-N	5.08	128.29	120.82
1	ev	193	ASN	C-N-CA	5.08	128.29	120.82
1	ey	33	SER	N-CA-C	-5.08	103.55	108.07
1	eX	146	SER	O-C-N	-5.08	116.03	121.42
1	1u	59	VAL	O-C-N	-5.08	117.07	122.61
1	f1	79	GLU	N-CA-C	5.08	116.82	111.28
1	fd	117	TRP	O-C-N	-5.08	116.27	122.22
1	1x	181	VAL	N-CA-CB	5.08	116.15	110.51
1	fH	219	GLN	CG-CD-NE2	-5.08	108.78	116.40
1	fJ	181	VAL	CA-C-O	-5.08	115.46	120.85
1	fP	203	LYS	CG-CD-CE	5.08	122.99	111.30
1	fU	63	GLN	O-C-N	-5.08	115.50	122.46
1	g5	12	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	i	80	TRP	O-C-N	-5.08	116.73	122.12
1	l	106	GLY	CA-C-O	5.08	124.75	119.06
1	w	15	ILE	O-C-N	-5.08	116.22	122.57
1	w	219	GLN	CB-CA-C	5.08	118.02	109.89
1	L	37	ILE	CA-C-O	-5.08	115.28	118.69
1	4	3	VAL	CA-C-O	5.08	123.79	118.96
1	Q	192	GLN	N-CA-C	5.08	116.82	111.28
1	5	203	LYS	CA-C-N	5.08	127.09	120.28
1	5	203	LYS	C-N-CA	5.08	127.09	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	139	ASN	CA-C-N	5.08	130.03	121.14
1	gf	139	ASN	C-N-CA	5.08	130.03	121.14
1	gj	52	LEU	O-C-N	-5.08	116.36	122.15
1	gv	66	MET	N-CA-C	5.08	116.90	111.36
1	gB	173	ARG	N-CA-C	5.08	116.82	111.28
1	gD	202	LEU	CA-C-O	5.08	125.61	119.31
1	gE	33	SER	CA-C-N	5.08	126.19	119.84
1	gE	33	SER	C-N-CA	5.08	126.19	119.84
1	gG	91	ILE	CA-C-N	5.08	128.37	120.60
1	gG	91	ILE	C-N-CA	5.08	128.37	120.60
1	gJ	92	GLU	CA-C-N	5.08	126.19	119.84
1	gJ	92	GLU	C-N-CA	5.08	126.19	119.84
1	gX	115	ILE	N-CA-C	-5.08	105.44	110.62
1	h1	34	PRO	N-CD-CG	5.08	110.82	103.20
1	h1	146	SER	CA-C-N	5.08	124.69	119.56
1	h1	146	SER	C-N-CA	5.08	124.69	119.56
1	hp	173	ARG	CG-CD-NE	-5.08	100.82	112.00
1	hq	13	GLN	N-CA-CB	-5.08	102.79	110.77
1	hs	120	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	hs	123	PRO	O-C-N	-5.08	116.88	123.03
1	hu	6	LEU	N-CA-CB	5.08	119.08	110.49
1	1K	171	THR	CA-CB-OG1	5.08	117.22	109.60
1	hA	219	GLN	O-C-N	-5.08	117.25	123.19
1	hN	86	VAL	N-CA-C	5.08	116.06	108.54
1	i4	62	HIS	CA-CB-CG	5.08	118.88	113.80
1	i7	172	LEU	N-CA-C	-5.08	106.77	113.17
1	ia	119	THR	CA-C-N	5.08	129.99	120.95
1	ia	119	THR	C-N-CA	5.08	129.99	120.95
1	id	154	ARG	O-C-N	-5.08	117.25	123.30
1	ij	228	ALA	CA-C-O	-5.08	115.81	121.81
1	ip	223	GLY	O-C-N	-5.08	116.69	121.77
1	iu	217	ALA	N-CA-CB	5.08	118.59	110.46
1	iL	27	VAL	N-CA-C	5.08	115.80	110.62
1	iV	73	ILE	CA-C-O	5.08	126.56	121.17
1	iW	55	MET	N-CA-C	5.08	116.51	111.07
1	iY	110	THR	CA-CB-OG1	5.08	117.22	109.60
1	iY	125	PRO	CA-C-N	5.08	127.06	120.56
1	iY	125	PRO	C-N-CA	5.08	127.06	120.56
1	j1	226	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	jb	118	MET	N-CA-C	5.08	116.82	111.28
1	jc	125	PRO	CA-C-O	-5.08	111.35	120.60
1	jj	218	CYS	N-CA-CB	5.08	119.08	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jm	82	ARG	O-C-N	-5.08	115.76	122.42
1	jo	5	ASN	O-C-N	-5.08	116.73	122.68
1	jt	89	GLY	CA-C-N	5.08	124.84	119.76
1	jt	89	GLY	C-N-CA	5.08	124.84	119.76
1	1X	19	THR	CB-CA-C	-5.08	102.90	110.88
1	1X	148	THR	CA-C-N	5.08	128.06	120.95
1	1X	148	THR	C-N-CA	5.08	128.06	120.95
1	1Y	62	HIS	O-C-N	-5.08	116.93	122.67
1	jX	93	PRO	N-CA-CB	-5.08	97.91	103.25
1	jY	206	GLY	O-C-N	-5.08	116.69	121.77
1	1Z	72	THR	N-CA-C	5.08	116.82	111.28
1	k1	173	ARG	CA-C-O	5.08	125.81	119.97
1	kk	48	THR	O-C-N	-5.08	115.74	121.43
1	kl	84	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	ko	102	SER	CA-C-N	5.08	127.51	120.29
1	ko	102	SER	C-N-CA	5.08	127.51	120.29
1	kB	83	LEU	N-CA-C	5.08	119.56	112.90
1	kE	61	GLY	O-C-N	-5.08	118.44	122.81
1	kE	208	ALA	CB-CA-C	5.08	117.52	111.22
1	kE	223	GLY	CA-C-N	5.08	126.19	119.84
1	kE	223	GLY	C-N-CA	5.08	126.19	119.84
1	kG	120	HIS	CA-CB-CG	-5.08	108.72	113.80
1	kJ	79	GLU	CA-C-O	5.08	125.94	120.55
1	kS	72	THR	N-CA-C	5.08	116.82	111.28
1	kS	84	HIS	CB-CA-C	-5.08	102.94	110.97
1	kV	218	CYS	CA-C-N	5.08	128.03	120.31
1	kV	218	CYS	C-N-CA	5.08	128.03	120.31
1	l5	18	ARG	N-CA-C	5.08	116.82	111.28
1	ld	80	TRP	CG-CD2-CE3	-5.08	128.82	133.90
1	lg	22	ALA	O-C-N	-5.08	116.36	122.15
1	lp	78	ALA	CA-C-O	5.08	125.81	119.97
1	lt	82	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	lx	102	SER	CA-C-N	5.08	127.09	120.28
1	lx	102	SER	C-N-CA	5.08	127.09	120.28
1	lA	7	GLN	N-CA-CB	-5.08	102.66	110.44
1	lH	50	GLN	N-CA-CB	5.08	117.38	110.01
1	lK	16	SER	N-CA-C	5.08	116.80	109.48
1	lO	49	PRO	CA-C-N	5.08	127.05	120.44
1	lO	49	PRO	C-N-CA	5.08	127.05	120.44
1	lO	125	PRO	CB-CA-C	-5.08	103.17	111.56
1	2e	62	HIS	CA-C-O	5.08	126.54	120.70
1	2p	221	VAL	CA-C-O	5.08	126.23	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2w	214	MET	N-CA-C	5.08	116.51	111.07
1	2x	31	ALA	N-CA-C	5.08	121.62	110.80
1	2E	226	HIS	O-C-N	-5.08	117.22	122.96
1	2K	19	THR	CA-CB-CG2	5.08	119.14	110.50
1	2L	54	THR	CA-C-O	5.08	125.94	120.55
1	2L	214	MET	N-CA-C	5.08	116.51	111.07
1	2O	54	THR	CB-CA-C	-5.08	102.35	110.79
1	2S	141	ILE	CA-C-N	5.08	126.96	120.56
1	2S	141	ILE	C-N-CA	5.08	126.96	120.56
1	2Y	2	ILE	O-C-N	-5.08	117.14	122.83
1	3g	117	TRP	CB-CG-CD2	-5.08	119.69	126.80
1	3r	206	GLY	O-C-N	-5.08	116.69	121.77
1	3u	181	VAL	CA-C-N	5.08	127.09	120.28
1	3u	181	VAL	C-N-CA	5.08	127.09	120.28
1	3x	153	ILE	CB-CA-C	5.08	118.29	111.28
1	3G	164	TYR	CA-C-N	5.08	127.42	120.46
1	3G	164	TYR	C-N-CA	5.08	127.42	120.46
1	3J	129	ILE	CA-C-O	5.08	126.24	120.85
1	3P	82	ARG	CA-C-N	5.08	127.35	120.44
1	3P	82	ARG	C-N-CA	5.08	127.35	120.44
1	3S	99	PRO	N-CA-C	5.08	119.18	110.95
1	3S	204	ALA	CA-C-N	5.08	127.50	120.29
1	3S	204	ALA	C-N-CA	5.08	127.50	120.29
1	40	214	MET	N-CA-C	-5.08	106.34	112.54
1	4a	143	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	4e	163	ASP	N-CA-CB	5.08	117.59	110.12
1	4f	110	THR	N-CA-CB	5.08	118.59	110.46
1	4j	54	THR	CA-C-N	5.08	127.09	120.28
1	4j	54	THR	C-N-CA	5.08	127.09	120.28
1	4C	21	ASN	N-CA-CB	5.08	117.59	110.12
1	4L	146	SER	O-C-N	-5.08	115.48	121.32
1	4O	183	ASN	CA-C-O	5.08	125.94	120.55
1	4T	7	GLN	OE1-CD-NE2	5.08	127.68	122.60
1	55	189	LEU	O-C-N	-5.08	116.73	122.12
1	5b	8	GLY	N-CA-C	5.08	124.84	112.44
1	5e	112	GLN	CB-CA-C	-5.08	102.90	110.88
1	5l	20	LEU	CA-C-N	5.08	127.34	120.38
1	5l	20	LEU	C-N-CA	5.08	127.34	120.38
1	5A	29	GLU	N-CA-C	5.08	117.55	111.71
1	5B	74	ASN	CA-C-N	5.08	127.35	120.44
1	5B	74	ASN	C-N-CA	5.08	127.35	120.44
1	5D	112	GLN	N-CA-CB	5.08	118.68	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5E	134	ILE	CA-C-N	5.08	128.50	120.47
1	5E	134	ILE	C-N-CA	5.08	128.50	120.47
1	5P	158	LYS	CA-C-O	-5.08	115.03	120.42
1	5T	165	VAL	CA-CB-CG2	-5.08	101.76	110.40
1	63	121	ASN	CA-CB-CG	-5.08	107.52	112.60
1	68	131	LYS	N-CA-C	5.08	116.51	111.07
1	6k	14	ALA	N-CA-C	5.08	117.09	110.43
1	6p	5	ASN	N-CA-C	5.08	117.60	110.23
1	6p	43	LEU	O-C-N	-5.08	116.73	122.12
1	6r	150	ILE	O-C-N	-5.08	116.77	121.90
1	6t	146	SER	N-CA-C	5.08	116.09	109.64
1	6D	97	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	6H	172	LEU	N-CA-CB	5.08	118.83	110.39
1	6J	5	ASN	CB-CA-C	5.08	116.96	109.29
1	6J	198	CYS	N-CA-C	5.08	116.90	111.36
1	6P	48	THR	CA-C-N	5.08	126.19	119.84
1	6P	48	THR	C-N-CA	5.08	126.19	119.84
1	70	169	TYR	O-C-N	-5.08	116.73	122.12
1	72	126	VAL	CA-C-N	5.08	125.59	120.00
1	72	126	VAL	C-N-CA	5.08	125.59	120.00
1	7i	115	ILE	O-C-N	-5.08	116.94	121.87
1	7l	164	TYR	CB-CG-CD1	-5.08	113.18	120.80
1	7o	62	HIS	CA-C-N	5.08	127.40	120.54
1	7o	62	HIS	C-N-CA	5.08	127.40	120.54
1	7o	117	TRP	N-CA-C	5.08	116.82	111.28
1	7p	214	MET	N-CA-C	5.08	116.82	111.28
1	7s	120	HIS	CB-CG-CD2	-5.08	124.59	131.20
1	7x	7	GLN	N-CA-C	5.08	117.26	110.35
1	7z	146	SER	N-CA-C	5.08	116.80	109.48
1	7L	22	ALA	O-C-N	5.08	127.30	122.07
1	7S	136	LEU	O-C-N	-5.08	116.73	122.12
1	83	175	GLU	CA-C-O	5.08	127.72	121.72
1	87	83	LEU	CA-C-O	-5.08	115.48	121.07
1	88	74	ASN	CA-CB-CG	5.08	117.68	112.60
1	8a	103	ASP	CA-C-O	-5.08	115.03	120.42
1	8c	146	SER	O-C-N	-5.08	115.78	120.51
1	8r	152	ASP	CA-C-N	5.08	128.06	122.22
1	8r	152	ASP	C-N-CA	5.08	128.06	122.22
1	8H	198	CYS	CA-C-N	5.08	127.09	120.28
1	8H	198	CYS	C-N-CA	5.08	127.09	120.28
1	8H	212	GLU	N-CA-CB	-5.08	102.65	110.12
1	8J	96	MET	N-CA-C	5.08	117.60	110.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8R	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	8V	160	PRO	N-CA-CB	-5.08	99.05	103.32
1	8Y	206	GLY	CA-C-N	5.08	124.58	119.19
1	8Y	206	GLY	C-N-CA	5.08	124.58	119.19
1	92	196	PRO	N-CA-C	5.08	122.94	112.47
1	93	111	LEU	O-C-N	-5.08	116.73	122.12
1	95	131	LYS	N-CA-C	5.08	116.82	111.28
1	95	169	TYR	CA-C-N	5.08	127.05	120.44
1	95	169	TYR	C-N-CA	5.08	127.05	120.44
1	96	196	PRO	N-CA-C	5.08	120.73	113.47
1	9b	172	LEU	CD1-CG-CD2	-5.08	99.62	110.80
1	9i	183	ASN	CA-CB-CG	-5.08	107.52	112.60
1	9p	76	GLU	N-CA-C	5.08	116.63	111.14
1	9s	129	ILE	CB-CA-C	-5.08	105.47	111.97
1	9w	92	GLU	N-CA-CB	-5.08	100.63	109.73
1	9C	132	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	9E	53	ASN	CB-CA-C	-5.08	102.90	110.88
1	9E	82	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	9O	187	GLU	CB-CA-C	-5.08	100.81	109.65
1	9T	185	MET	O-C-N	5.08	127.94	122.15
1	a2	36	VAL	CA-C-O	5.08	126.01	120.57
1	ac	166	ASP	N-CA-C	5.08	116.51	111.07
1	ad	30	LYS	O-C-N	-5.08	116.38	122.27
1	ae	223	GLY	CA-C-N	5.08	127.04	120.89
1	ae	223	GLY	C-N-CA	5.08	127.04	120.89
1	ag	100	ARG	CB-CG-CD	5.08	122.99	111.30
1	ai	124	ILE	CA-C-O	-5.08	115.39	119.25
1	ak	73	ILE	CA-C-N	5.08	127.09	120.28
1	ak	73	ILE	C-N-CA	5.08	127.09	120.28
1	ao	22	ALA	CA-C-N	5.08	127.09	120.28
1	ao	22	ALA	C-N-CA	5.08	127.09	120.28
1	at	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	12	161	PHE	CB-CG-CD1	-5.08	112.06	120.70
1	au	226	HIS	CB-CA-C	-5.08	101.90	110.64
1	aA	75	GLU	CB-CA-C	5.08	118.86	110.88
1	aD	67	GLN	N-CA-CB	5.08	117.59	110.12
1	aE	192	GLN	N-CA-CB	5.08	117.59	110.12
1	aF	31	ALA	N-CA-C	5.08	121.62	110.80
1	aI	119	THR	N-CA-C	-5.08	106.93	113.23
1	aK	6	LEU	N-CA-C	-5.08	106.93	113.23
1	aL	69	LEU	N-CA-C	5.08	117.22	111.02
1	aN	95	GLN	OE1-CD-NE2	-5.08	117.52	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aP	78	ALA	CA-C-N	5.08	127.51	120.29
1	aP	78	ALA	C-N-CA	5.08	127.51	120.29
1	aV	38	PRO	N-CA-CB	5.08	108.59	103.25
1	aW	158	LYS	N-CA-CB	-5.08	103.46	111.39
1	15	16	SER	N-CA-C	5.08	116.09	109.64
1	bb	96	MET	CG-SD-CE	-5.08	89.72	100.90
1	bg	37	ILE	CA-C-O	5.08	123.17	118.85
1	bj	224	PRO	N-CA-CB	5.08	108.17	103.39
1	by	135	ILE	CA-C-N	5.08	127.60	120.28
1	by	135	ILE	C-N-CA	5.08	127.60	120.28
1	bB	3	VAL	CA-C-O	5.08	125.67	120.39
1	bF	203	LYS	N-CA-C	5.08	116.82	111.28
1	bH	168	PHE	CA-CB-CG	-5.08	108.72	113.80
1	bI	133	TRP	CB-CG-CD1	5.08	134.52	126.90
1	bJ	7	GLN	CA-C-N	5.08	128.62	121.30
1	bJ	7	GLN	C-N-CA	5.08	128.62	121.30
1	c3	91	ILE	CB-CA-C	5.08	118.19	110.62
1	c4	37	ILE	CA-C-N	5.08	124.39	118.85
1	c4	37	ILE	C-N-CA	5.08	124.39	118.85
1	ce	34	PRO	N-CD-CG	5.08	110.82	103.20
1	1d	63	GLN	N-CA-C	5.08	118.63	112.23
1	1d	78	ALA	N-CA-C	5.08	116.82	111.28
1	ci	16	SER	O-C-N	-5.08	116.03	121.42
1	co	174	ALA	O-C-N	-5.08	115.62	122.43
1	cx	163	ASP	N-CA-C	5.08	117.21	111.11
1	cI	70	LYS	CA-C-N	5.08	127.09	120.28
1	cI	70	LYS	C-N-CA	5.08	127.09	120.28
1	d1	227	LYS	O-C-N	-5.08	116.62	122.87
1	d3	133	TRP	N-CA-CB	5.08	117.68	110.16
1	d8	62	HIS	N-CA-C	5.08	118.60	111.74
1	de	15	ILE	N-CA-C	5.08	115.65	109.30
1	dg	109	SER	CA-C-O	-5.08	115.50	121.44
1	dq	92	GLU	CB-CG-CD	-5.08	103.96	112.60
1	dy	30	LYS	O-C-N	-5.08	116.20	122.25
1	dD	211	LEU	CD1-CG-CD2	-5.08	99.62	110.80
1	dF	162	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	dH	43	LEU	CA-C-O	5.08	125.61	119.31
1	dK	151	LEU	N-CA-C	5.08	117.72	111.82
1	1n	40	PHE	O-C-N	-5.08	116.73	122.12
1	1n	130	TYR	CA-C-O	5.08	125.94	120.55
1	dY	25	LYS	O-C-N	-5.08	116.28	122.22
1	dZ	211	LEU	N-CA-C	5.08	117.72	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e7	58	THR	N-CA-C	5.08	116.82	111.28
1	e8	40	PHE	N-CA-C	-5.08	105.63	111.07
1	e9	143	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	ef	34	PRO	O-C-N	-5.08	113.68	122.17
1	ei	25	LYS	N-CA-CB	5.08	118.16	110.28
1	em	140	LYS	N-CA-C	-5.08	105.74	111.28
1	eD	25	LYS	CB-CG-CD	5.08	122.99	111.30
1	eD	56	LEU	CA-C-O	-5.08	115.48	120.82
1	eF	173	ARG	N-CA-C	5.08	116.51	111.07
1	eJ	68	MET	CB-CA-C	-5.08	103.13	110.96
1	eJ	92	GLU	N-CA-C	5.08	119.66	112.75
1	eK	63	GLN	N-CA-C	5.08	116.51	111.07
1	eN	50	GLN	CA-C-N	5.08	127.05	120.44
1	eN	50	GLN	C-N-CA	5.08	127.05	120.44
1	eQ	177	ALA	CA-C-N	5.08	128.42	120.75
1	eQ	177	ALA	C-N-CA	5.08	128.42	120.75
1	eV	80	TRP	CA-C-N	5.08	127.09	120.28
1	eV	80	TRP	C-N-CA	5.08	127.09	120.28
1	f5	1	PRO	CA-N-CD	-5.08	104.89	112.00
1	fa	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	fe	16	SER	CB-CA-C	-5.08	101.70	108.87
1	fi	56	LEU	CD1-CG-CD2	5.08	121.98	110.80
1	fj	28	GLU	N-CA-C	5.08	117.21	111.11
1	1w	24	VAL	CA-C-N	5.08	127.05	120.44
1	1w	24	VAL	C-N-CA	5.08	127.05	120.44
1	fw	82	ARG	O-C-N	5.08	127.52	122.08
1	fy	162	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	fy	183	ASN	N-CA-C	-5.08	105.83	112.23
1	fA	12	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	1y	92	GLU	N-CA-C	5.08	116.09	109.64
1	fX	7	GLN	CB-CG-CD	5.08	121.24	112.60
1	fX	179	GLN	CG-CD-OE1	-5.08	110.64	120.80
1	g5	28	GLU	N-CA-C	5.08	116.51	111.07
1	g5	117	TRP	N-CA-CB	5.08	117.38	110.01
1	g7	140	LYS	CA-C-N	5.08	127.05	120.70
1	g7	140	LYS	C-N-CA	5.08	127.05	120.70
1	1	164	TYR	CA-C-O	-5.08	115.03	120.42
1	m	182	LYS	N-CA-C	5.08	116.90	111.36
1	o	15	ILE	O-C-N	-5.08	117.31	122.75
1	t	165	VAL	N-CA-C	5.08	115.85	110.72
1	A	177	ALA	CA-C-O	5.08	126.85	121.16
1	C	55	MET	N-CA-CB	-5.08	102.39	110.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	192	GLN	O-C-N	-5.08	115.45	122.46
1	K	220	GLY	CA-C-N	5.08	129.33	122.93
1	K	220	GLY	C-N-CA	5.08	129.33	122.93
1	M	148	THR	N-CA-CB	5.08	117.77	109.69
1	T	60	GLY	CA-C-O	5.08	126.34	119.28
1	U	184	TRP	N-CA-CB	-5.08	102.65	110.12
1	V	154	ARG	CA-C-O	5.08	127.20	121.51
1	X	61	GLY	O-C-N	-5.08	116.06	122.41
1	g8	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	gn	169	TYR	N-CA-C	5.08	116.90	111.36
1	gS	21	ASN	OD1-CG-ND2	5.08	127.68	122.60
1	h5	3	VAL	CA-C-O	5.08	125.75	120.36
1	h5	15	ILE	N-CA-C	5.08	116.12	109.21
1	hg	52	LEU	N-CA-C	-5.08	105.44	111.69
1	ht	185	MET	N-CA-CB	5.08	117.59	110.12
1	hw	51	ASP	CA-C-N	5.08	127.50	120.29
1	hw	51	ASP	C-N-CA	5.08	127.50	120.29
1	hZ	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	i0	120	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	1O	12	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	il	16	SER	O-C-N	-5.08	114.73	121.64
1	ip	143	ARG	N-CA-C	5.08	116.50	111.07
1	ir	139	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	ix	224	PRO	N-CA-CB	-5.08	97.92	103.25
1	iN	46	GLY	N-CA-C	-5.08	104.62	113.76
1	iP	219	GLN	O-C-N	5.08	129.34	123.30
1	j2	144	MET	N-CA-C	-5.08	105.83	112.23
1	jU	230	VAL	N-CA-CB	5.08	119.61	111.23
1	k3	163	ASP	CA-CB-CG	5.08	117.68	112.60
1	ky	181	VAL	O-C-N	-5.08	116.94	121.87
1	kR	113	GLU	N-CA-CB	5.08	117.59	110.12
1	l0	105	ALA	N-CA-C	-5.08	107.03	113.18
1	l4	26	VAL	CA-CB-CG1	5.08	119.04	110.40
1	lb	175	GLU	CA-C-N	5.08	129.95	122.63
1	lb	175	GLU	C-N-CA	5.08	129.95	122.63
1	lf	139	ASN	CB-CG-ND2	5.08	124.02	116.40
1	lm	95	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	ln	107	THR	N-CA-C	-5.08	104.80	111.96
1	28	153	ILE	CA-C-O	5.08	127.02	121.13
1	lF	132	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	2e	210	THR	N-CA-CB	5.08	118.59	110.46
1	2f	134	ILE	CA-CB-CG1	5.08	119.03	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2r	229	ARG	CA-C-N	5.08	128.80	121.18
1	2r	229	ARG	C-N-CA	5.08	128.80	121.18
1	2w	91	ILE	CA-C-N	5.08	127.45	120.39
1	2w	91	ILE	C-N-CA	5.08	127.45	120.39
1	2J	216	THR	O-C-N	-5.08	116.25	122.34
1	2U	131	LYS	CA-C-O	5.08	125.84	120.10
1	3g	100	ARG	N-CA-CB	5.08	117.62	110.36
1	3g	187	GLU	CA-C-O	5.08	125.61	119.31
1	3o	141	ILE	CA-C-N	5.08	127.15	120.60
1	3o	141	ILE	C-N-CA	5.08	127.15	120.60
1	3M	19	THR	CA-C-O	5.08	126.15	120.82
1	3X	169	TYR	CA-C-N	5.08	127.09	120.28
1	3X	169	TYR	C-N-CA	5.08	127.09	120.28
1	46	160	PRO	CB-CA-C	5.08	119.94	111.56
1	4h	202	LEU	O-C-N	5.08	127.30	122.07
1	4r	109	SER	O-C-N	-5.08	117.25	123.30
1	4F	225	GLY	N-CA-C	5.08	121.77	114.10
1	4G	198	CYS	N-CA-CB	-5.08	102.94	110.61
1	4J	193	ASN	N-CA-C	-5.08	105.81	112.41
1	4S	68	MET	CG-SD-CE	-5.08	89.72	100.90
1	5k	173	ARG	CA-C-O	5.08	125.65	119.05
1	5o	12	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	5C	64	ALA	O-C-N	-5.08	116.84	122.07
1	5S	107	THR	CA-CB-OG1	5.08	117.22	109.60
1	64	52	LEU	CA-C-N	5.08	127.50	120.29
1	64	52	LEU	C-N-CA	5.08	127.50	120.29
1	6a	144	MET	CG-SD-CE	-5.08	89.72	100.90
1	6l	23	TRP	O-C-N	-5.08	116.74	122.12
1	6r	211	LEU	CA-C-N	5.08	131.24	121.54
1	6r	211	LEU	C-N-CA	5.08	131.24	121.54
1	6x	197	ASP	N-CA-C	-5.08	105.82	111.36
1	6G	75	GLU	CA-C-N	5.08	127.50	120.29
1	6G	75	GLU	C-N-CA	5.08	127.50	120.29
1	6R	47	ALA	CA-C-O	5.08	125.92	120.38
1	73	27	VAL	N-CA-C	5.08	115.80	110.62
1	7g	78	ALA	CB-CA-C	-5.08	102.90	110.88
1	7l	27	VAL	N-CA-C	5.08	115.80	110.62
1	7m	11	VAL	CB-CA-C	5.08	116.72	111.23
1	7v	140	LYS	N-CA-C	-5.08	106.49	113.30
1	7Q	118	MET	N-CA-CB	-5.08	102.97	110.49
1	81	192	GLN	O-C-N	-5.08	116.60	122.09
1	82	37	ILE	CA-C-N	5.08	124.57	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	82	37	ILE	C-N-CA	5.08	124.57	119.19
1	8G	131	LYS	CA-CB-CG	5.08	124.26	114.10
1	8N	78	ALA	N-CA-C	5.08	116.82	111.28
1	95	197	ASP	CA-C-O	5.08	126.12	120.63
1	9q	8	GLY	O-C-N	-5.08	116.68	123.64
1	9O	202	LEU	O-C-N	-5.08	115.45	122.46
1	9P	130	TYR	CA-C-N	5.08	127.09	120.28
1	9P	130	TYR	C-N-CA	5.08	127.09	120.28
1	Y	219	GLN	CA-C-N	5.08	128.15	121.85
1	Y	219	GLN	C-N-CA	5.08	128.15	121.85
1	9Q	49	PRO	CB-CA-C	5.08	119.94	111.56
1	9Z	40	PHE	CA-CB-CG	5.08	118.88	113.80
1	ac	53	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	ac	211	LEU	CB-CA-C	-5.08	101.23	110.63
1	ad	4	GLN	OE1-CD-NE2	5.08	127.68	122.60
1	ag	199	LYS	N-CA-C	5.08	116.82	111.28
1	ai	189	LEU	N-CA-C	5.08	116.82	111.28
1	aA	202	LEU	CB-CA-C	5.08	119.00	110.92
1	aO	65	ALA	O-C-N	-5.08	116.74	122.12
1	b2	9	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	bi	144	MET	N-CA-C	5.08	116.90	111.36
1	by	132	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	bJ	53	ASN	CA-CB-CG	-5.08	107.52	112.60
1	bR	18	ARG	O-C-N	-5.08	116.02	122.27
1	bX	168	PHE	CA-CB-CG	-5.08	108.72	113.80
1	c1	2	ILE	CA-C-N	5.08	130.07	123.06
1	c1	2	ILE	C-N-CA	5.08	130.07	123.06
1	cd	25	LYS	N-CA-CB	5.08	118.04	110.22
1	ce	173	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	cf	187	GLU	N-CA-C	5.08	116.82	111.28
1	ck	142	VAL	CB-CA-C	-5.08	105.47	111.97
1	cp	134	ILE	CA-C-N	5.08	127.15	120.60
1	cp	134	ILE	C-N-CA	5.08	127.15	120.60
1	d3	179	GLN	CA-C-O	5.08	126.12	120.63
1	d6	110	THR	CA-C-N	5.08	127.09	120.28
1	d6	110	THR	C-N-CA	5.08	127.09	120.28
1	da	178	SER	CA-C-N	5.08	127.80	120.38
1	da	178	SER	C-N-CA	5.08	127.80	120.38
1	db	37	ILE	CA-CB-CG2	5.08	119.14	110.50
1	dq	185	MET	N-CA-C	5.08	117.48	111.33
1	du	79	GLU	N-CA-C	5.08	116.50	111.07
1	dA	180	GLU	O-C-N	-5.08	116.74	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eb	167	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	eh	178	SER	N-CA-CB	5.08	117.52	110.26
1	en	12	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	eu	171	THR	CA-C-O	5.08	125.54	119.60
1	ew	45	GLU	CA-C-O	5.08	126.12	120.63
1	eM	7	GLN	N-CA-C	5.08	117.60	110.23
1	eM	63	GLN	N-CA-C	5.08	118.63	112.23
1	1t	53	ASN	N-CA-CB	5.08	117.68	110.16
1	eX	84	HIS	O-C-N	-5.08	116.74	121.36
1	fe	17	PRO	CA-C-N	5.08	127.04	120.44
1	fe	17	PRO	C-N-CA	5.08	127.04	120.44
1	fh	59	VAL	N-CA-C	5.08	115.95	110.21
1	fs	100	ARG	CG-CD-NE	-5.08	100.83	112.00
1	1x	21	ASN	CA-C-O	5.08	125.81	120.42
1	fP	182	LYS	CB-CA-C	5.08	119.22	110.79
1	1B	149	SER	N-CA-C	5.08	117.40	110.24
1	n	152	ASP	CA-CB-CG	-5.08	107.52	112.60
1	w	165	VAL	CA-C-N	5.08	127.04	120.44
1	w	165	VAL	C-N-CA	5.08	127.04	120.44
1	x	143	ARG	CA-C-N	5.08	129.32	120.68
1	x	143	ARG	C-N-CA	5.08	129.32	120.68
1	L	99	PRO	N-CA-C	5.08	119.06	111.14
1	M	114	GLN	N-CA-CB	5.08	117.38	110.01
1	S	63	GLN	CA-C-N	5.08	127.35	120.44
1	S	63	GLN	C-N-CA	5.08	127.35	120.44
1	gd	143	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	gf	223	GLY	CA-C-N	5.08	124.39	118.85
1	gf	223	GLY	C-N-CA	5.08	124.39	118.85
1	gi	7	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	gi	110	THR	CA-C-N	5.08	131.24	121.54
1	gi	110	THR	C-N-CA	5.08	131.24	121.54
1	gs	144	MET	CB-CA-C	-5.08	102.36	110.79
1	gx	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	gN	177	ALA	CA-C-O	5.08	127.77	120.51
1	gQ	126	VAL	N-CA-C	5.08	116.41	110.62
1	gR	143	ARG	CB-CG-CD	5.08	122.98	111.30
1	gT	224	PRO	CA-N-CD	5.08	119.11	112.00
1	h1	91	ILE	N-CA-C	5.08	116.56	109.55
1	hc	28	GLU	N-CA-C	5.08	116.62	111.14
1	hw	141	ILE	CA-C-O	-5.08	115.41	121.05
1	hB	29	GLU	CB-CA-C	5.08	118.92	110.90
1	hL	161	PHE	CA-C-O	5.08	125.93	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hX	129	ILE	CA-C-N	5.08	127.08	120.28
1	hX	129	ILE	C-N-CA	5.08	127.08	120.28
1	i2	106	GLY	CA-C-O	5.08	126.12	120.03
1	i3	142	VAL	N-CA-C	5.08	119.15	112.04
1	i4	26	VAL	CB-CA-C	-5.08	105.20	111.70
1	ia	100	ARG	CG-CD-NE	-5.08	100.83	112.00
1	ib	125	PRO	CA-C-N	5.08	131.11	121.97
1	ib	125	PRO	C-N-CA	5.08	131.11	121.97
1	if	67	GLN	N-CA-C	5.08	116.50	111.07
1	ih	99	PRO	CA-C-O	-5.08	115.62	121.36
1	iq	52	LEU	O-C-N	-5.08	116.02	122.27
1	iv	65	ALA	CA-C-N	5.08	127.59	120.28
1	iv	65	ALA	C-N-CA	5.08	127.59	120.28
1	1Q	69	LEU	N-CA-C	5.08	116.50	111.07
1	iD	12	HIS	N-CA-CB	5.08	118.01	110.29
1	iN	183	ASN	CB-CG-ND2	-5.08	108.78	116.40
1	iQ	40	PHE	N-CA-C	5.08	116.82	111.28
1	iW	175	GLU	O-C-N	-5.08	116.78	122.97
1	j2	73	ILE	N-CA-CB	-5.08	104.61	110.55
1	jb	36	VAL	CA-C-N	5.08	123.44	120.24
1	jb	36	VAL	C-N-CA	5.08	123.44	120.24
1	ji	5	ASN	CA-CB-CG	5.08	117.68	112.60
1	jj	67	GLN	N-CA-C	5.08	116.81	111.28
1	jp	159	GLU	O-C-N	-5.08	115.48	121.32
1	jq	68	MET	CB-CA-C	5.08	119.22	110.79
1	jq	188	THR	CA-C-N	5.08	127.50	120.29
1	jq	188	THR	C-N-CA	5.08	127.50	120.29
1	jt	126	VAL	CA-CB-CG2	5.08	119.03	110.40
1	jA	146	SER	CA-C-O	5.08	124.52	119.75
1	jI	21	ASN	CA-C-N	5.08	127.08	120.28
1	jI	21	ASN	C-N-CA	5.08	127.08	120.28
1	k0	133	TRP	O-C-N	-5.08	116.74	122.12
1	k9	114	GLN	CA-C-N	5.08	129.03	120.29
1	k9	114	GLN	C-N-CA	5.08	129.03	120.29
1	20	182	LYS	CA-C-N	5.08	127.04	120.44
1	20	182	LYS	C-N-CA	5.08	127.04	120.44
1	ka	138	LEU	O-C-N	-5.08	116.74	122.12
1	ke	164	TYR	N-CA-C	5.08	116.50	111.07
1	kf	155	GLN	OE1-CD-NE2	5.08	127.68	122.60
1	kh	226	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	kt	62	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	kw	47	ALA	N-CA-C	5.08	117.67	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kB	212	GLU	N-CA-C	5.08	116.82	111.28
1	23	188	THR	O-C-N	5.08	127.50	122.12
1	24	169	TYR	CA-CB-CG	-5.08	104.76	113.90
1	kP	138	LEU	CA-C-O	-5.08	115.17	120.55
1	kQ	142	VAL	CA-C-N	5.08	127.35	120.65
1	kQ	142	VAL	C-N-CA	5.08	127.35	120.65
1	kU	71	GLU	CA-C-N	5.08	128.03	120.31
1	kU	71	GLU	C-N-CA	5.08	128.03	120.31
1	kY	84	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	l2	73	ILE	CA-C-O	-5.08	115.79	121.17
1	l6	167	ARG	CA-C-N	5.08	127.40	120.54
1	l6	167	ARG	C-N-CA	5.08	127.40	120.54
1	27	75	GLU	N-CA-CB	5.08	118.15	110.28
1	27	84	HIS	CA-C-N	5.08	126.19	119.84
1	27	84	HIS	C-N-CA	5.08	126.19	119.84
1	li	225	GLY	N-CA-C	5.08	125.22	113.18
1	lA	146	SER	CA-C-N	5.08	126.19	119.84
1	lA	146	SER	C-N-CA	5.08	126.19	119.84
1	lF	102	SER	O-C-N	-5.08	115.02	122.43
1	lH	162	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	lK	124	ILE	N-CA-C	-5.08	102.17	107.60
1	lO	53	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	lO	79	GLU	CA-C-O	5.08	125.80	120.42
1	2b	180	GLU	CA-C-N	5.08	127.05	120.70
1	2b	180	GLU	C-N-CA	5.08	127.05	120.70
1	2n	129	ILE	N-CA-C	5.08	115.80	110.62
1	2v	92	GLU	CA-CB-CG	-5.08	103.94	114.10
1	2z	133	TRP	CA-CB-CG	5.08	123.25	113.60
1	2U	129	ILE	CB-CA-C	5.08	119.00	112.14
1	2V	186	THR	O-C-N	-5.08	116.84	122.07
1	2Y	165	VAL	CB-CA-C	-5.08	105.28	112.14
1	30	101	GLY	N-CA-C	5.08	120.17	113.37
1	32	77	ALA	CA-C-N	5.08	127.09	120.28
1	32	77	ALA	C-N-CA	5.08	127.09	120.28
1	3h	146	SER	CB-CA-C	5.08	117.27	109.50
1	3j	150	ILE	N-CA-C	5.08	119.60	113.00
1	3n	62	HIS	O-C-N	-5.08	116.49	122.58
1	3n	145	TYR	N-CA-C	-5.08	106.92	113.02
1	3w	143	ARG	CA-C-N	5.08	127.59	120.28
1	3w	143	ARG	C-N-CA	5.08	127.59	120.28
1	3z	70	LYS	N-CA-C	5.08	116.90	111.36
1	3A	39	MET	CA-C-O	5.08	125.93	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3A	40	PHE	CA-CB-CG	5.08	118.88	113.80
1	3W	68	MET	CA-C-N	5.08	127.08	120.28
1	3W	68	MET	C-N-CA	5.08	127.08	120.28
1	3Y	4	GLN	N-CA-CB	5.08	119.07	110.49
1	3Z	212	GLU	N-CA-CB	5.08	117.51	109.94
1	43	197	ASP	N-CA-C	5.08	116.50	111.07
1	44	67	GLN	O-C-N	5.08	127.50	122.12
1	46	110	THR	CA-C-N	5.08	127.09	120.28
1	46	110	THR	C-N-CA	5.08	127.09	120.28
1	4m	187	GLU	CB-CA-C	-5.08	102.88	110.90
1	4n	187	GLU	O-C-N	-5.08	115.45	122.46
1	4r	75	GLU	N-CA-C	5.08	117.71	111.82
1	4u	67	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	4F	130	TYR	O-C-N	-5.08	116.84	122.07
1	4H	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	4M	215	MET	CB-CA-C	5.08	120.60	109.99
1	51	86	VAL	CB-CA-C	5.08	119.50	110.71
1	54	21	ASN	O-C-N	-5.08	116.74	122.12
1	55	196	PRO	N-CA-C	5.08	122.93	112.47
1	56	214	MET	CA-C-O	-5.08	115.49	120.82
1	59	210	THR	CA-C-O	-5.08	115.98	121.87
1	5f	48	THR	N-CA-CB	5.08	115.63	109.74
1	5h	53	ASN	CA-C-O	5.08	125.93	120.55
1	5k	56	LEU	CA-C-O	-5.08	115.15	120.63
1	5s	93	PRO	N-CA-CB	5.08	107.76	103.19
1	5u	22	ALA	CA-C-N	5.08	127.08	120.28
1	5u	22	ALA	C-N-CA	5.08	127.08	120.28
1	5x	82	ARG	CA-C-N	5.08	127.35	120.65
1	5x	82	ARG	C-N-CA	5.08	127.35	120.65
1	5y	15	ILE	CB-CA-C	-5.08	103.76	111.33
1	5F	62	HIS	N-CA-CB	-5.08	103.99	111.71
1	5H	163	ASP	CA-C-N	5.08	127.09	120.28
1	5H	163	ASP	C-N-CA	5.08	127.09	120.28
1	5J	154	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
1	5L	31	ALA	CB-CA-C	-5.08	109.19	115.89
1	5P	125	PRO	O-C-N	-5.08	115.94	122.44
1	5R	126	VAL	CA-CB-CG2	5.08	119.03	110.40
1	5T	181	VAL	CB-CA-C	5.08	119.23	112.22
1	61	103	ASP	CA-C-N	5.08	127.69	120.53
1	61	103	ASP	C-N-CA	5.08	127.69	120.53
1	63	86	VAL	CA-C-N	5.08	128.91	120.94
1	63	86	VAL	C-N-CA	5.08	128.91	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	67	60	GLY	CA-C-N	5.08	126.27	120.53
1	67	60	GLY	C-N-CA	5.08	126.27	120.53
1	6a	90	PRO	N-CA-C	5.08	122.93	112.47
1	6c	159	GLU	CA-C-O	5.08	123.08	119.32
1	6g	32	PHE	N-CA-CB	5.08	119.04	110.46
1	6g	44	SER	CA-C-O	5.08	126.90	120.65
1	6i	203	LYS	CB-CA-C	5.08	119.22	110.79
1	6y	3	VAL	CA-CB-CG2	5.08	119.03	110.40
1	6A	48	THR	CA-CB-OG1	5.08	117.22	109.60
1	6E	5	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	6E	71	GLU	CB-CG-CD	5.08	121.23	112.60
1	6G	216	THR	CA-C-N	5.08	127.98	120.82
1	6G	216	THR	C-N-CA	5.08	127.98	120.82
1	6R	154	ARG	CB-CG-CD	5.08	122.98	111.30
1	6U	169	TYR	CA-C-O	-5.08	115.04	120.42
1	7a	30	LYS	CB-CA-C	-5.08	101.61	110.09
1	7n	167	ARG	N-CA-CB	-5.08	102.65	110.12
1	7p	160	PRO	N-CA-CB	5.08	108.05	103.33
1	7D	41	SER	O-C-N	5.08	127.94	122.15
1	7I	104	ILE	CA-C-O	5.08	125.96	120.47
1	7M	184	TRP	N-CA-CB	5.08	117.68	110.16
1	7P	2	ILE	O-C-N	-5.08	117.16	123.10
1	7R	170	LYS	N-CA-C	5.08	117.55	111.71
1	7Z	18	ARG	CG-CD-NE	-5.08	100.83	112.00
1	86	117	TRP	CG-CD2-CE3	-5.08	128.82	133.90
1	8b	110	THR	CA-C-N	5.08	128.44	120.82
1	8b	110	THR	C-N-CA	5.08	128.44	120.82
1	8f	174	ALA	CB-CA-C	5.08	118.08	109.55
1	8i	114	GLN	CA-C-N	5.08	127.42	120.46
1	8i	114	GLN	C-N-CA	5.08	127.42	120.46
1	8Z	10	MET	CA-C-O	5.08	127.31	121.47
1	99	156	GLY	CA-C-N	5.08	124.57	119.19
1	99	156	GLY	C-N-CA	5.08	124.57	119.19
1	9c	167	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	9e	112	GLN	CA-CB-CG	5.08	124.26	114.10
1	9i	114	GLN	CG-CD-NE2	-5.08	108.78	116.40
1	9p	21	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	9r	33	SER	CA-C-O	-5.08	115.44	120.26
1	9A	30	LYS	N-CA-CB	-5.08	101.73	111.53
1	9H	195	ASN	N-CA-C	5.08	116.09	109.64
1	9Q	120	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	a0	33	SER	O-C-N	-5.08	117.03	121.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a1	19	THR	CA-C-N	5.08	127.08	120.28
1	a1	19	THR	C-N-CA	5.08	127.08	120.28
1	a2	186	THR	N-CA-C	5.08	118.63	112.23
1	a3	87	HIS	CA-CB-CG	5.08	118.88	113.80
1	ac	50	GLN	CA-C-N	5.08	127.09	120.28
1	ac	50	GLN	C-N-CA	5.08	127.09	120.28
1	ae	149	SER	N-CA-CB	5.08	118.56	110.84
1	ai	96	MET	CG-SD-CE	5.08	112.07	100.90
1	aw	19	THR	CA-CB-CG2	5.08	119.14	110.50
1	ax	112	GLN	N-CA-C	5.08	117.47	111.33
1	aD	167	ARG	CB-CA-C	5.08	118.85	110.88
1	13	124	ILE	CA-C-O	-5.08	115.39	119.25
1	14	103	ASP	CA-CB-CG	-5.08	107.52	112.60
1	aO	57	ASN	N-CA-CB	-5.08	101.88	110.41
1	15	85	PRO	CA-C-N	5.08	127.50	120.49
1	15	85	PRO	C-N-CA	5.08	127.50	120.49
1	aZ	228	ALA	N-CA-C	5.08	117.34	108.76
1	b0	23	TRP	CA-C-O	-5.08	115.49	120.82
1	b5	72	THR	CA-CB-CG2	5.08	119.13	110.50
1	b5	92	GLU	N-CA-CB	5.08	118.41	111.25
1	b6	94	GLY	O-C-N	-5.08	117.43	122.41
1	b6	112	GLN	CG-CD-NE2	5.08	124.02	116.40
1	b8	146	SER	N-CA-C	5.08	121.04	109.81
1	bh	82	ARG	CA-C-O	5.08	125.81	119.97
1	by	179	GLN	O-C-N	-5.08	116.74	122.12
1	bA	165	VAL	CB-CA-C	5.08	119.62	111.29
1	bA	226	HIS	CA-CB-CG	5.08	118.88	113.80
1	bK	9	GLN	N-CA-C	-5.08	101.90	109.11
1	bK	139	ASN	N-CA-C	5.08	116.82	111.28
1	1a	63	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	bM	21	ASN	CA-CB-CG	5.08	117.68	112.60
1	c2	211	LEU	O-C-N	-5.08	116.74	122.12
1	cf	84	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	ci	184	TRP	CB-CG-CD2	5.08	133.91	126.80
1	cw	143	ARG	O-C-N	5.08	127.50	122.12
1	cy	189	LEU	N-CA-C	5.08	117.47	111.33
1	cz	163	ASP	N-CA-CB	5.08	117.38	110.01
1	cC	189	LEU	CA-C-N	5.08	127.40	120.54
1	cC	189	LEU	C-N-CA	5.08	127.40	120.54
1	cF	152	ASP	CA-CB-CG	5.08	117.68	112.60
1	cH	166	ASP	CA-CB-CG	5.08	117.68	112.60
1	cI	108	THR	O-C-N	-5.08	116.01	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dg	207	PRO	CA-C-O	-5.08	112.50	118.90
1	dr	101	GLY	CA-C-N	5.08	127.08	120.28
1	dr	101	GLY	C-N-CA	5.08	127.08	120.28
1	du	211	LEU	N-CA-C	5.08	116.81	111.28
1	dv	16	SER	CA-C-O	-5.08	115.17	119.59
1	1l	87	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	dy	10	MET	O-C-N	-5.08	115.77	122.47
1	dE	30	LYS	CB-CG-CD	5.08	122.98	111.30
1	dF	161	PHE	CA-CB-CG	-5.08	108.72	113.80
1	dM	80	TRP	N-CA-C	5.08	117.55	111.71
1	dP	166	ASP	CB-CA-C	-5.08	102.36	110.79
1	dR	25	LYS	CA-C-O	-5.08	114.13	119.97
1	dZ	229	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	e8	62	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	ee	146	SER	O-C-N	-5.08	116.45	121.17
1	ee	171	THR	O-C-N	-5.08	116.84	122.07
1	ef	195	ASN	O-C-N	-5.08	116.34	121.27
1	eg	135	ILE	CA-C-O	5.08	125.73	119.58
1	ej	54	THR	CA-CB-CG2	5.08	119.13	110.50
1	en	138	LEU	N-CA-C	5.08	116.81	111.28
1	eo	117	TRP	CB-CG-CD2	5.08	133.91	126.80
1	es	39	MET	CA-C-O	-5.08	114.36	120.10
1	eJ	178	SER	CA-CB-OG	5.08	121.26	111.10
1	eK	6	LEU	N-CA-C	5.08	116.50	111.07
1	eO	133	TRP	CB-CG-CD1	5.08	134.52	126.90
1	eQ	20	LEU	N-CA-CB	-5.08	102.65	110.12
1	eQ	70	LYS	N-CA-C	5.08	116.90	111.36
1	eU	54	THR	CA-C-O	5.08	126.33	120.90
1	f2	189	LEU	CA-C-N	5.08	127.04	120.44
1	f2	189	LEU	C-N-CA	5.08	127.04	120.44
1	1v	164	TYR	CA-CB-CG	5.08	123.04	113.90
1	fa	33	SER	N-CA-C	-5.08	102.36	108.25
1	fd	12	HIS	O-C-N	-5.08	116.69	122.89
1	fh	179	GLN	CA-C-O	5.08	126.15	120.82
1	fA	102	SER	O-C-N	-5.08	116.74	122.12
1	1y	80	TRP	CZ3-CH2-CZ2	5.08	128.10	121.50
1	1y	202	LEU	CA-C-O	5.08	125.81	119.97
1	fI	88	ALA	CA-C-O	5.08	125.78	119.79
1	fK	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	fK	124	ILE	CB-CA-C	5.08	116.16	110.52
1	fQ	226	HIS	CB-CG-CD2	-5.08	124.60	131.20
1	fR	172	LEU	CA-C-N	5.08	127.50	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	172	LEU	C-N-CA	5.08	127.50	120.29
1	fZ	120	HIS	N-CA-C	5.08	116.84	110.24
1	g1	208	ALA	N-CA-C	5.08	118.25	111.24
1	g3	25	LYS	CB-CG-CD	5.08	122.98	111.30
1	a	190	LEU	N-CA-C	5.08	121.62	110.80
1	c	44	SER	CA-C-O	5.08	125.84	119.59
1	c	62	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	p	167	ARG	CD-NE-CZ	5.08	131.51	124.40
1	u	139	ASN	O-C-N	-5.08	116.74	122.12
1	w	182	LYS	CA-C-O	5.08	125.93	120.55
1	x	201	ILE	CA-C-N	5.08	127.50	120.29
1	x	201	ILE	C-N-CA	5.08	127.50	120.29
1	D	199	LYS	N-CA-C	5.08	117.20	111.11
1	D	201	ILE	CA-C-O	5.08	125.95	120.47
1	L	147	PRO	O-C-N	-5.08	115.78	122.64
1	N	150	ILE	O-C-N	-5.08	116.91	121.89
1	4	39	MET	CA-C-N	5.08	127.85	120.79
1	4	39	MET	C-N-CA	5.08	127.85	120.79
1	4	201	ILE	CA-C-O	-5.08	115.79	121.17
1	gs	143	ARG	CA-C-N	5.08	127.08	120.28
1	gs	143	ARG	C-N-CA	5.08	127.08	120.28
1	gt	226	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	gz	186	THR	N-CA-CB	5.08	117.58	110.12
1	gA	214	MET	N-CA-CB	5.08	117.37	110.01
1	gL	200	THR	CB-CA-C	-5.08	102.91	110.88
1	h2	115	ILE	O-C-N	-5.08	116.60	121.83
1	h9	75	GLU	N-CA-C	5.08	117.20	111.11
1	ha	161	PHE	CB-CA-C	5.08	120.52	110.42
1	hn	144	MET	CA-CB-CG	-5.08	103.95	114.10
1	hv	192	GLN	CG-CD-NE2	-5.08	108.78	116.40
1	hy	114	GLN	N-CA-CB	5.08	117.68	110.06
1	hO	211	LEU	N-CA-C	5.08	117.55	111.71
1	hP	120	HIS	CB-CG-ND1	5.08	130.32	122.70
1	hQ	133	TRP	CB-CG-CD2	-5.08	119.69	126.80
1	hS	67	GLN	CB-CG-CD	-5.08	103.97	112.60
1	1M	13	GLN	OE1-CD-NE2	-5.08	117.52	122.60
1	hU	43	LEU	CA-C-O	5.08	125.93	120.55
1	ig	181	VAL	O-C-N	-5.08	116.62	121.90
1	iD	126	VAL	N-CA-C	5.08	117.40	111.05
1	1R	135	ILE	N-CA-C	5.08	115.80	110.62
1	iI	132	ARG	N-CA-C	5.08	116.81	111.28
1	iK	25	LYS	N-CA-C	5.08	118.63	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1S	120	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	j4	68	MET	CG-SD-CE	-5.08	89.73	100.90
1	j4	216	THR	N-CA-C	-5.08	106.77	113.17
1	js	184	TRP	N-CA-C	5.08	116.81	111.28
1	jM	20	LEU	N-CA-CB	5.08	117.37	110.01
1	jT	215	MET	CA-C-O	5.08	125.22	119.18
1	jZ	133	TRP	CA-C-N	5.08	128.49	120.47
1	jZ	133	TRP	C-N-CA	5.08	128.49	120.47
1	k3	223	GLY	O-C-N	-5.08	116.69	121.77
1	kt	154	ARG	CA-C-N	5.08	127.98	120.82
1	kt	154	ARG	C-N-CA	5.08	127.98	120.82
1	kC	180	GLU	N-CA-C	5.08	116.50	111.07
1	kK	79	GLU	N-CA-CB	-5.08	102.65	110.01
1	lk	99	PRO	CA-N-CD	-5.08	104.89	112.00
1	lm	173	ARG	N-CA-CB	-5.08	102.66	110.12
1	lq	100	ARG	CD-NE-CZ	5.08	131.51	124.40
1	lM	132	ARG	O-C-N	-5.08	116.36	122.15
1	lN	227	LYS	CA-C-N	5.08	130.14	122.68
1	lN	227	LYS	C-N-CA	5.08	130.14	122.68
1	2t	165	VAL	CA-C-O	5.08	126.33	121.05
1	2D	118	MET	N-CA-C	5.08	116.81	111.28
1	2O	83	LEU	O-C-N	-5.08	116.21	122.25
1	2V	50	GLN	N-CA-C	5.08	117.20	111.11
1	3c	216	THR	CA-CB-OG1	5.08	117.22	109.60
1	3i	162	ARG	O-C-N	-5.08	116.74	122.12
1	3p	114	GLN	CA-C-N	5.08	127.69	120.53
1	3p	114	GLN	C-N-CA	5.08	127.69	120.53
1	3y	209	ALA	O-C-N	-5.08	117.59	123.33
1	3B	202	LEU	CA-C-N	5.08	128.03	120.31
1	3B	202	LEU	C-N-CA	5.08	128.03	120.31
1	3I	142	VAL	N-CA-C	5.08	118.18	111.17
1	3Z	187	GLU	O-C-N	5.08	127.30	122.07
1	42	168	PHE	CA-C-O	-5.08	115.08	121.02
1	4l	118	MET	CA-C-O	5.08	125.84	120.10
1	4B	16	SER	CA-C-N	5.08	124.57	119.19
1	4B	16	SER	C-N-CA	5.08	124.57	119.19
1	4C	161	PHE	CA-CB-CG	-5.08	108.72	113.80
1	4C	169	TYR	O-C-N	-5.08	115.63	122.43
1	4I	24	VAL	O-C-N	-5.08	115.14	121.84
1	4J	155	GLN	O-C-N	-5.08	117.46	123.25
1	5m	183	ASN	N-CA-C	5.08	116.50	110.97
1	5z	131	LYS	CA-C-O	5.08	125.62	119.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	48	THR	CA-CB-OG1	5.08	117.22	109.60
1	69	220	GLY	CA-C-N	5.08	131.11	121.97
1	69	220	GLY	C-N-CA	5.08	131.11	121.97
1	6d	127	GLY	CA-C-N	5.08	127.50	120.29
1	6d	127	GLY	C-N-CA	5.08	127.50	120.29
1	6n	39	MET	CA-C-N	5.08	127.08	120.28
1	6n	39	MET	C-N-CA	5.08	127.08	120.28
1	6x	196	PRO	CA-N-CD	-5.08	104.89	112.00
1	6A	199	LYS	O-C-N	-5.08	116.28	122.22
1	6E	62	HIS	ND1-CG-CD2	5.08	111.18	106.10
1	6I	84	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	6R	216	THR	CA-C-N	5.08	128.53	121.02
1	6R	216	THR	C-N-CA	5.08	128.53	121.02
1	6Z	143	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	74	62	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	7t	27	VAL	N-CA-C	5.08	115.80	110.62
1	7P	213	GLU	CA-CB-CG	-5.08	103.94	114.10
1	8a	103	ASP	CB-CG-OD1	5.08	130.08	118.40
1	8k	101	GLY	CA-C-N	5.08	127.08	120.28
1	8k	101	GLY	C-N-CA	5.08	127.08	120.28
1	8M	60	GLY	CA-C-N	5.08	127.04	120.64
1	8M	60	GLY	C-N-CA	5.08	127.04	120.64
1	93	167	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	9d	97	ARG	O-C-N	-5.08	116.66	122.95
1	9l	20	LEU	CA-C-N	5.08	127.08	120.28
1	9l	20	LEU	C-N-CA	5.08	127.08	120.28
1	9l	144	MET	N-CA-C	5.08	116.81	111.28
1	9q	54	THR	N-CA-CB	5.08	117.58	110.12
1	9w	136	LEU	CA-C-O	5.08	125.93	120.55
1	9z	172	LEU	N-CA-C	-5.08	105.64	111.07
1	a4	196	PRO	N-CA-CB	5.08	108.58	103.25
1	a9	173	ARG	CA-C-N	5.08	127.04	120.44
1	a9	173	ARG	C-N-CA	5.08	127.04	120.44
1	ab	3	VAL	N-CA-CB	5.08	119.78	111.45
1	aJ	78	ALA	CA-C-O	-5.08	115.17	120.55
1	aT	142	VAL	CA-C-N	5.08	127.08	120.28
1	aT	142	VAL	C-N-CA	5.08	127.08	120.28
1	bD	185	MET	N-CA-C	5.08	117.71	111.82
1	bP	49	PRO	CA-C-N	5.08	127.04	120.44
1	bP	49	PRO	C-N-CA	5.08	127.04	120.44
1	cb	131	LYS	N-CA-C	5.08	117.47	111.33
1	cf	97	ARG	NE-CZ-NH2	5.08	123.77	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1d	161	PHE	CA-CB-CG	5.08	118.88	113.80
1	cA	50	GLN	CA-C-N	5.08	127.39	120.54
1	cA	50	GLN	C-N-CA	5.08	127.39	120.54
1	cV	109	SER	O-C-N	-5.08	117.53	123.27
1	d1	156	GLY	CA-C-N	5.08	124.86	119.28
1	d1	156	GLY	C-N-CA	5.08	124.86	119.28
1	d3	74	ASN	O-C-N	-5.08	115.53	122.33
1	dd	156	GLY	CA-C-N	5.08	124.77	119.64
1	dd	156	GLY	C-N-CA	5.08	124.77	119.64
1	dR	24	VAL	CA-C-N	5.08	128.03	120.31
1	dR	24	VAL	C-N-CA	5.08	128.03	120.31
1	1n	167	ARG	N-CA-C	5.08	116.81	111.28
1	dU	82	ARG	N-CA-C	5.08	117.71	111.82
1	dW	55	MET	N-CA-C	5.08	116.81	111.28
1	e1	87	HIS	O-C-N	-5.08	116.49	122.58
1	e9	23	TRP	CZ3-CH2-CZ2	5.08	128.10	121.50
1	eg	170	LYS	N-CA-C	5.08	116.81	111.28
1	eM	184	TRP	CA-CB-CG	5.08	123.25	113.60
1	eO	164	TYR	CA-C-N	5.08	127.15	120.60
1	eO	164	TYR	C-N-CA	5.08	127.15	120.60
1	f2	199	LYS	O-C-N	-5.08	116.84	122.07
1	f5	229	ARG	N-CA-C	5.08	117.23	110.53
1	fa	222	GLY	CA-C-O	5.08	126.40	122.29
1	fj	66	MET	O-C-N	-5.08	116.74	122.12
1	ft	83	LEU	CA-C-O	5.08	124.94	119.15
1	fE	3	VAL	O-C-N	-5.08	117.39	123.03
1	fE	31	ALA	N-CA-C	5.08	121.61	110.80
1	fI	122	PRO	CA-C-N	5.08	124.98	119.85
1	fI	122	PRO	C-N-CA	5.08	124.98	119.85
1	i	48	THR	CA-CB-OG1	5.08	117.22	109.60
1	D	126	VAL	N-CA-C	5.08	115.85	110.72
1	E	136	LEU	CA-C-O	5.08	125.89	120.20
1	H	107	THR	N-CA-CB	5.08	118.15	110.28
1	4	57	ASN	O-C-N	-5.08	115.45	122.46
1	S	160	PRO	CB-CA-C	-5.08	102.81	110.17
1	5	145	TYR	CD1-CG-CD2	-5.08	110.48	118.10
1	g8	4	GLN	N-CA-C	5.08	117.05	109.59
1	gd	2	ILE	N-CA-CB	-5.08	103.56	110.56
1	gd	55	MET	N-CA-C	5.08	116.50	111.07
1	gd	155	GLN	CA-C-O	5.08	126.76	120.92
1	1D	155	GLN	OE1-CD-NE2	5.08	127.67	122.60
1	gu	79	GLU	CB-CA-C	-5.08	101.41	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gy	154	ARG	CD-NE-CZ	-5.08	117.30	124.40
1	gA	176	GLN	N-CA-C	5.08	121.61	110.80
1	gB	113	GLU	N-CA-C	5.08	117.55	111.71
1	gE	133	TRP	CA-C-O	-5.08	115.49	120.82
1	1F	108	THR	CA-C-O	5.08	124.94	119.15
1	gN	68	MET	N-CA-CB	5.08	117.37	110.01
1	gQ	205	LEU	CA-C-O	5.08	125.80	120.42
1	h1	41	SER	CA-C-N	5.08	127.08	120.28
1	h1	41	SER	C-N-CA	5.08	127.08	120.28
1	h2	192	GLN	N-CA-CB	5.08	117.58	110.12
1	1J	32	PHE	CB-CA-C	-5.08	101.59	110.17
1	1J	167	ARG	CA-C-O	-5.08	115.67	121.00
1	hr	119	THR	O-C-N	-5.08	116.00	122.34
1	hv	114	GLN	CG-CD-NE2	5.08	124.01	116.40
1	hL	77	ALA	N-CA-CB	-5.08	102.66	110.12
1	hX	162	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
1	i3	133	TRP	N-CA-C	5.08	116.81	111.28
1	i4	131	LYS	CA-C-O	5.08	126.11	120.63
1	iz	143	ARG	CG-CD-NE	-5.08	100.84	112.00
1	j6	138	LEU	O-C-N	-5.08	116.84	122.07
1	ja	181	VAL	CA-C-N	5.08	127.39	120.54
1	ja	181	VAL	C-N-CA	5.08	127.39	120.54
1	jk	120	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	jp	124	ILE	O-C-N	-5.08	115.31	121.10
1	jr	96	MET	CA-C-O	5.08	126.84	121.16
1	ju	113	GLU	N-CA-CB	5.08	117.67	110.16
1	jw	191	VAL	CA-CB-CG2	5.08	119.03	110.40
1	jL	132	ARG	CB-CA-C	5.08	119.22	110.79
1	jR	226	HIS	ND1-CE1-NE2	5.08	113.47	108.40
1	1Z	12	HIS	CB-CG-ND1	5.08	130.31	122.70
1	k4	187	GLU	N-CA-C	5.08	116.89	111.36
1	ke	199	LYS	N-CA-C	5.08	116.81	111.28
1	kg	119	THR	CA-CB-OG1	5.08	117.21	109.60
1	kg	196	PRO	O-C-N	5.08	127.66	122.18
1	kh	215	MET	CA-C-O	5.08	125.93	120.55
1	km	37	ILE	O-C-N	-5.08	116.47	120.07
1	ku	184	TRP	CG-CD2-CE3	-5.08	128.82	133.90
1	kv	162	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	kB	156	GLY	O-C-N	-5.08	116.69	121.77
1	kR	84	HIS	ND1-CE1-NE2	5.08	113.47	108.40
1	kR	124	ILE	CA-C-N	5.08	128.12	120.96
1	kR	124	ILE	C-N-CA	5.08	128.12	120.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kZ	21	ASN	N-CA-C	5.08	116.89	111.36
1	l9	112	GLN	OE1-CD-NE2	-5.08	117.53	122.60
1	lg	18	ARG	CA-C-N	5.08	127.08	120.28
1	lg	18	ARG	C-N-CA	5.08	127.08	120.28
1	ln	147	PRO	CA-C-N	5.08	129.45	120.87
1	ln	147	PRO	C-N-CA	5.08	129.45	120.87
1	lv	154	ARG	CA-C-N	5.08	128.53	121.02
1	lv	154	ARG	C-N-CA	5.08	128.53	121.02
1	lJ	100	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	lR	150	ILE	N-CA-C	5.08	117.39	111.05
1	2y	216	THR	OG1-CB-CG2	-5.08	99.15	109.30
1	2K	79	GLU	CA-C-O	5.08	125.93	120.55
1	2O	74	ASN	OD1-CG-ND2	-5.08	117.53	122.60
1	2Q	9	GLN	CA-C-N	5.08	128.28	120.82
1	2Q	9	GLN	C-N-CA	5.08	128.28	120.82
1	2R	168	PHE	N-CA-C	5.08	116.50	111.07
1	2W	108	THR	CA-CB-OG1	5.08	117.21	109.60
1	2Y	109	SER	O-C-N	-5.08	117.33	123.27
1	38	102	SER	CA-C-N	5.08	127.50	120.29
1	38	102	SER	C-N-CA	5.08	127.50	120.29
1	3a	174	ALA	O-C-N	-5.08	115.02	122.43
1	3e	226	HIS	CB-CG-ND1	-5.08	115.09	122.70
1	3i	123	PRO	CA-C-N	-5.08	118.94	122.59
1	3i	123	PRO	C-N-CA	-5.08	118.94	122.59
1	3o	5	ASN	CA-C-O	-5.08	114.97	120.81
1	3T	92	GLU	O-C-N	-5.08	115.96	120.48
1	3U	142	VAL	N-CA-C	5.08	115.80	110.62
1	4g	141	ILE	CA-C-N	5.08	129.06	120.64
1	4g	141	ILE	C-N-CA	5.08	129.06	120.64
1	4g	215	MET	CA-C-N	5.08	128.02	120.31
1	4g	215	MET	C-N-CA	5.08	128.02	120.31
1	4j	21	ASN	N-CA-CB	-5.08	102.65	110.16
1	4l	121	ASN	CB-CA-C	5.08	118.97	110.55
1	4u	97	ARG	N-CA-CB	5.08	117.50	110.04
1	4x	143	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
1	4y	55	MET	N-CA-C	-5.08	105.64	111.07
1	4y	64	ALA	O-C-N	-5.08	116.84	122.07
1	4y	199	LYS	CA-C-O	-5.08	115.47	120.90
1	4H	16	SER	N-CA-CB	5.08	116.62	110.17
1	4H	143	ARG	NH1-CZ-NH2	5.08	125.90	119.30
1	4U	55	MET	CA-C-O	5.08	126.15	120.82
1	4X	49	PRO	N-CA-C	5.08	122.93	112.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	55	189	LEU	CD1-CG-CD2	5.08	121.97	110.80
1	5u	166	ASP	CA-C-N	5.08	127.08	120.28
1	5u	166	ASP	C-N-CA	5.08	127.08	120.28
1	5w	31	ALA	N-CA-C	5.08	121.61	110.80
1	5z	228	ALA	N-CA-CB	-5.08	104.36	111.62
1	5J	141	ILE	CA-C-N	5.08	127.63	120.42
1	5J	141	ILE	C-N-CA	5.08	127.63	120.42
1	5S	16	SER	N-CA-C	5.08	116.28	109.83
1	5W	159	GLU	CB-CG-CD	5.08	121.23	112.60
1	60	154	ARG	CA-C-N	5.08	130.48	123.07
1	60	154	ARG	C-N-CA	5.08	130.48	123.07
1	69	174	ALA	CA-C-O	-5.08	113.33	119.27
1	6q	194	ALA	N-CA-C	5.08	117.25	110.35
1	6s	8	GLY	CA-C-O	-5.08	118.18	122.29
1	6w	132	ARG	NE-CZ-NH2	-5.08	114.63	119.20
1	6D	44	SER	O-C-N	-5.08	116.11	122.35
1	6L	130	TYR	CA-C-O	5.08	125.84	120.10
1	6T	152	ASP	CA-C-N	5.08	127.06	120.56
1	6T	152	ASP	C-N-CA	5.08	127.06	120.56
1	6U	85	PRO	N-CA-C	5.08	122.92	112.47
1	72	7	GLN	O-C-N	-5.08	116.23	122.57
1	72	51	ASP	CA-CB-CG	5.08	117.67	112.60
1	73	133	TRP	CE2-CD2-CE3	-5.08	113.72	118.80
1	7q	226	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	7u	59	VAL	N-CA-C	5.08	115.54	108.84
1	7u	137	GLY	O-C-N	5.08	127.05	122.18
1	7w	33	SER	CA-C-O	-5.08	114.37	120.41
1	7H	143	ARG	CA-C-N	5.08	127.04	120.44
1	7H	143	ARG	C-N-CA	5.08	127.04	120.44
1	7J	95	GLN	OE1-CD-NE2	-5.08	117.53	122.60
1	7O	175	GLU	CB-CA-C	5.08	118.14	109.72
1	7V	74	ASN	CA-C-N	5.08	127.08	120.28
1	7V	74	ASN	C-N-CA	5.08	127.08	120.28
1	7W	43	LEU	CA-C-N	5.08	130.62	122.14
1	7W	43	LEU	C-N-CA	5.08	130.62	122.14
1	86	11	VAL	N-CA-CB	-5.08	105.04	111.64
1	8c	181	VAL	CA-C-O	5.08	126.23	120.95
1	8h	9	GLN	CA-C-N	5.08	128.08	120.87
1	8h	9	GLN	C-N-CA	5.08	128.08	120.87
1	8j	14	ALA	CA-C-N	5.08	131.11	121.97
1	8j	14	ALA	C-N-CA	5.08	131.11	121.97
1	8l	41	SER	CA-C-N	5.08	127.50	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8l	41	SER	C-N-CA	5.08	127.50	120.29
1	8l	120	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	8l	226	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	8q	115	ILE	CA-C-N	5.08	125.61	119.98
1	8q	115	ILE	C-N-CA	5.08	125.61	119.98
1	8v	139	ASN	N-CA-CB	-5.08	102.65	110.01
1	8M	12	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	8Q	174	ALA	N-CA-C	5.08	116.81	111.28
1	8U	119	THR	CA-CB-OG1	5.08	117.21	109.60
1	8Z	7	GLN	O-C-N	-5.08	115.84	122.59
1	9a	14	ALA	O-C-N	-5.08	116.57	122.81
1	9h	11	VAL	N-CA-CB	5.08	121.75	112.36
1	9j	113	GLU	CA-C-N	5.08	127.04	120.44
1	9j	113	GLU	C-N-CA	5.08	127.04	120.44
1	9k	221	VAL	CB-CA-C	-5.08	103.56	110.77
1	9t	101	GLY	O-C-N	-5.08	117.32	122.19
1	9u	92	GLU	CA-C-N	5.08	124.84	119.76
1	9u	92	GLU	C-N-CA	5.08	124.84	119.76
1	9w	7	GLN	N-CA-C	-5.08	106.93	113.02
1	9R	184	TRP	CA-C-N	5.08	127.08	120.28
1	9R	184	TRP	C-N-CA	5.08	127.08	120.28
1	a7	78	ALA	O-C-N	-5.08	116.74	122.12
1	a7	90	PRO	O-C-N	-5.08	115.79	122.64
1	a8	184	TRP	CE2-CD2-CE3	5.08	123.88	118.80
1	ac	82	ARG	NH1-CZ-NH2	-5.08	112.70	119.30
1	at	28	GLU	CA-C-O	-5.08	114.13	119.97
1	ax	79	GLU	O-C-N	-5.08	116.74	122.12
1	aA	87	HIS	N-CA-C	5.08	117.66	110.10
1	13	27	VAL	CA-C-N	5.08	127.04	120.44
1	13	27	VAL	C-N-CA	5.08	127.04	120.44
1	aM	50	GLN	O-C-N	-5.08	116.74	122.12
1	aS	194	ALA	CA-C-O	-5.08	115.98	121.87
1	aT	174	ALA	CA-C-N	5.08	128.08	120.87
1	aT	174	ALA	C-N-CA	5.08	128.08	120.87
1	aU	220	GLY	O-C-N	-5.08	118.30	122.92
1	aV	94	GLY	CA-C-N	5.08	129.35	122.19
1	aV	94	GLY	C-N-CA	5.08	129.35	122.19
1	aZ	40	PHE	CA-C-N	5.08	127.04	120.44
1	aZ	40	PHE	C-N-CA	5.08	127.04	120.44
1	bb	113	GLU	CA-C-N	5.08	127.04	120.44
1	bb	113	GLU	C-N-CA	5.08	127.04	120.44
1	bp	191	VAL	N-CA-C	5.08	117.39	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bz	77	ALA	CA-C-O	-5.08	115.17	120.55
1	19	37	ILE	CA-CB-CG2	5.08	119.13	110.50
1	bF	208	ALA	N-CA-CB	-5.08	102.86	110.73
1	bG	52	LEU	CB-CA-C	-5.08	102.36	110.79
1	1a	137	GLY	CA-C-N	5.08	127.08	120.28
1	1a	137	GLY	C-N-CA	5.08	127.08	120.28
1	1a	200	THR	O-C-N	-5.08	116.36	122.15
1	bM	208	ALA	CA-C-O	5.08	125.65	119.05
1	bS	173	ARG	CA-C-N	5.08	127.08	120.28
1	bS	173	ARG	C-N-CA	5.08	127.08	120.28
1	bV	173	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	c1	149	SER	CA-C-N	5.08	129.56	121.34
1	c1	149	SER	C-N-CA	5.08	129.56	121.34
1	c3	165	VAL	CA-C-N	5.08	127.84	120.79
1	c3	165	VAL	C-N-CA	5.08	127.84	120.79
1	1d	207	PRO	N-CD-CG	5.08	110.81	103.20
1	cg	65	ALA	CA-C-N	5.08	127.08	120.28
1	cg	65	ALA	C-N-CA	5.08	127.08	120.28
1	cj	37	ILE	CA-C-O	-5.08	113.15	119.95
1	cp	15	ILE	CA-C-O	5.08	127.22	120.98
1	cp	23	TRP	CH2-CZ2-CE2	5.08	124.10	117.50
1	cr	50	GLN	CA-C-O	5.08	125.62	119.38
1	cs	143	ARG	CA-CB-CG	5.08	124.25	114.10
1	cv	123	PRO	N-CD-CG	5.08	110.81	103.20
1	1f	226	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	cB	92	GLU	O-C-N	-5.08	115.48	121.32
1	cJ	62	HIS	ND1-CE1-NE2	5.08	113.48	108.40
1	cK	192	GLN	CA-C-O	5.08	125.80	120.42
1	cQ	18	ARG	CB-CA-C	-5.08	102.69	110.81
1	cR	97	ARG	NE-CZ-NH2	5.08	123.77	119.20
1	cX	146	SER	CA-C-O	-5.08	115.17	119.59
1	d5	214	MET	N-CA-CB	5.08	117.67	110.16
1	de	209	ALA	N-CA-C	5.08	117.66	110.50
1	1k	119	THR	CA-C-O	5.08	125.47	119.48
1	dp	90	PRO	CA-C-N	5.08	127.41	120.46
1	dp	90	PRO	C-N-CA	5.08	127.41	120.46
1	dz	93	PRO	N-CA-C	5.08	119.53	111.26
1	dS	23	TRP	CA-C-N	5.08	127.06	120.56
1	dS	23	TRP	C-N-CA	5.08	127.06	120.56
1	1o	115	ILE	O-C-N	-5.08	116.94	121.91
1	e6	113	GLU	CA-C-O	5.08	125.93	120.55
1	ea	137	GLY	CA-C-N	5.08	127.08	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ea	137	GLY	C-N-CA	5.08	127.08	120.28
1	eb	81	ASP	N-CA-C	5.08	116.81	111.28
1	eu	140	LYS	CB-CA-C	5.08	118.85	110.88
1	eu	194	ALA	CA-C-O	5.08	126.93	121.55
1	ey	193	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	eB	87	HIS	ND1-CE1-NE2	5.08	113.47	108.40
1	eI	83	LEU	CA-C-N	-5.08	116.92	123.16
1	eI	83	LEU	C-N-CA	-5.08	116.92	123.16
1	eY	162	ARG	NE-CZ-NH1	5.08	126.58	121.50
1	f4	50	GLN	N-CA-C	5.08	116.50	111.07
1	f5	5	ASN	CA-C-N	5.08	131.04	122.87
1	f5	5	ASN	C-N-CA	5.08	131.04	122.87
1	f7	201	ILE	N-CA-C	5.08	115.69	110.36
1	1w	13	GLN	CA-C-N	5.08	127.92	120.71
1	1w	13	GLN	C-N-CA	5.08	127.92	120.71
1	fP	98	GLU	N-CA-CB	-5.08	103.19	110.04
1	fR	135	ILE	CA-C-N	5.08	127.39	120.54
1	fR	135	ILE	C-N-CA	5.08	127.39	120.54
1	g1	62	HIS	CA-CB-CG	-5.08	108.72	113.80
1	h	23	TRP	N-CA-C	5.08	116.50	110.97
1	2	27	VAL	N-CA-C	5.08	115.80	110.62
1	2	167	ARG	N-CA-C	5.08	116.81	111.28
1	E	142	VAL	O-C-N	-5.08	116.92	121.89
1	H	80	TRP	CB-CG-CD1	-5.08	119.29	126.90
1	P	98	GLU	N-CA-CB	5.08	119.14	109.44
1	9	167	ARG	CA-CB-CG	-5.08	103.95	114.10
1	g9	136	LEU	CA-C-O	5.07	126.15	120.82
1	gj	76	GLU	CB-CG-CD	5.07	121.23	112.60
1	gw	83	LEU	N-CA-C	5.07	116.50	111.07
1	gw	166	ASP	CA-C-O	-5.07	115.04	120.42
1	gC	37	ILE	N-CA-CB	-5.07	106.49	110.45
1	gC	138	LEU	CD1-CG-CD2	-5.07	99.64	110.80
1	gD	24	VAL	O-C-N	-5.07	116.95	121.87
1	gJ	136	LEU	CA-C-N	5.07	125.58	120.00
1	gJ	136	LEU	C-N-CA	5.07	125.58	120.00
1	gN	53	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	gP	72	THR	CA-C-N	5.07	127.62	120.42
1	gP	72	THR	C-N-CA	5.07	127.62	120.42
1	gP	87	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	gT	224	PRO	N-CA-CB	-5.07	99.83	103.23
1	gW	69	LEU	O-C-N	-5.07	116.37	122.15
1	h0	218	CYS	CA-C-N	5.07	128.31	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h0	218	CYS	C-N-CA	5.07	128.31	121.05
1	h2	66	MET	CA-C-N	5.07	127.08	120.28
1	h2	66	MET	C-N-CA	5.07	127.08	120.28
1	h2	78	ALA	CA-C-N	5.07	127.08	120.28
1	h2	78	ALA	C-N-CA	5.07	127.08	120.28
1	h9	226	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	hh	39	MET	CG-SD-CE	-5.07	89.74	100.90
1	hq	202	LEU	N-CA-CB	-5.07	102.38	109.94
1	hr	132	ARG	CD-NE-CZ	5.07	131.50	124.40
1	hx	192	GLN	CA-C-N	5.07	130.02	121.14
1	hx	192	GLN	C-N-CA	5.07	130.02	121.14
1	hy	74	ASN	O-C-N	-5.07	116.74	122.12
1	hB	3	VAL	O-C-N	-5.07	116.27	122.61
1	1L	98	GLU	O-C-N	-5.07	116.21	121.28
1	hK	150	ILE	CB-CA-C	5.07	120.43	112.16
1	hN	77	ALA	CA-C-O	-5.07	115.47	120.70
1	hQ	187	GLU	N-CA-C	5.07	116.50	111.07
1	hS	217	ALA	CA-C-O	-5.07	116.21	121.99
1	1M	62	HIS	ND1-CG-CD2	5.07	111.17	106.10
1	hV	71	GLU	N-CA-C	5.07	116.81	111.28
1	hX	205	LEU	CB-CA-C	-5.07	102.22	110.85
1	hZ	73	ILE	CA-CB-CG1	5.07	119.03	110.40
1	i0	110	THR	CA-C-N	5.07	128.02	120.31
1	i0	110	THR	C-N-CA	5.07	128.02	120.31
1	i6	40	PHE	CB-CG-CD2	5.07	129.32	120.70
1	ic	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	ik	201	ILE	CB-CA-C	-5.07	106.62	111.44
1	ip	80	TRP	O-C-N	-5.07	116.03	122.27
1	iF	54	THR	O-C-N	-5.07	116.74	122.12
1	iG	103	ASP	CA-C-N	5.07	127.41	120.46
1	iG	103	ASP	C-N-CA	5.07	127.41	120.46
1	iZ	54	THR	N-CA-CB	5.07	118.81	110.39
1	j7	12	HIS	CA-C-N	5.07	130.55	122.94
1	j7	12	HIS	C-N-CA	5.07	130.55	122.94
1	jg	72	THR	O-C-N	5.07	127.50	122.12
1	jg	212	GLU	O-C-N	-5.07	116.84	122.07
1	jm	207	PRO	CA-C-O	-5.07	111.86	118.86
1	js	142	VAL	CA-C-N	5.07	127.50	120.29
1	js	142	VAL	C-N-CA	5.07	127.50	120.29
1	js	181	VAL	CA-C-N	5.07	127.03	120.44
1	js	181	VAL	C-N-CA	5.07	127.03	120.44
1	ju	24	VAL	N-CA-CB	5.07	117.44	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jv	52	LEU	N-CA-C	5.07	117.47	111.33
1	jy	183	ASN	CA-C-N	5.07	127.08	120.28
1	jy	183	ASN	C-N-CA	5.07	127.08	120.28
1	jF	161	PHE	N-CA-C	5.07	117.81	108.58
1	jH	166	ASP	CB-CG-OD1	5.07	130.07	118.40
1	jM	173	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	1Y	224	PRO	CA-C-N	5.07	129.26	121.45
1	1Y	224	PRO	C-N-CA	5.07	129.26	121.45
1	jT	135	ILE	CA-C-O	5.07	126.23	120.95
1	jU	45	GLU	N-CA-C	5.07	117.66	110.10
1	jU	53	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	jX	218	CYS	CA-C-O	5.07	126.24	119.59
1	k0	129	ILE	N-CA-CB	5.07	116.49	110.55
1	k4	35	GLU	CA-C-O	5.07	125.60	119.31
1	k5	132	ARG	NE-CZ-NH2	5.07	123.77	119.20
1	k5	217	ALA	O-C-N	-5.07	117.07	122.85
1	k6	89	GLY	CA-C-N	5.07	125.08	119.90
1	k6	89	GLY	C-N-CA	5.07	125.08	119.90
1	ke	181	VAL	N-CA-C	5.07	115.80	110.62
1	kg	90	PRO	CA-C-N	5.07	130.94	122.57
1	kg	90	PRO	C-N-CA	5.07	130.94	122.57
1	kl	114	GLN	OE1-CD-NE2	5.07	127.67	122.60
1	km	18	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	kC	81	ASP	CA-C-O	5.07	125.83	120.10
1	kQ	229	ARG	O-C-N	-5.07	117.27	123.10
1	l8	200	THR	O-C-N	-5.07	116.37	122.15
1	lh	226	HIS	CB-CG-ND1	-5.07	115.09	122.70
1	27	33	SER	CA-C-O	-5.07	114.73	120.46
1	ll	165	VAL	CA-C-N	5.07	127.08	120.28
1	ll	165	VAL	C-N-CA	5.07	127.08	120.28
1	ls	132	ARG	NH1-CZ-NH2	-5.07	112.70	119.30
1	lu	10	MET	N-CA-C	5.07	121.61	110.80
1	ly	114	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	lA	18	ARG	O-C-N	-5.07	116.03	122.27
1	lI	136	LEU	N-CA-C	5.07	116.81	111.28
1	lL	41	SER	CA-C-N	5.07	127.08	120.28
1	lL	41	SER	C-N-CA	5.07	127.08	120.28
1	lN	185	MET	N-CA-C	5.07	116.50	111.07
1	lO	168	PHE	O-C-N	-5.07	116.75	122.03
1	2b	54	THR	N-CA-C	5.07	117.20	111.11
1	2g	203	LYS	O-C-N	-5.07	116.37	122.15
1	2i	169	TYR	N-CA-CB	5.07	118.14	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	195	ASN	CA-C-N	5.07	126.18	119.84
1	2j	195	ASN	C-N-CA	5.07	126.18	119.84
1	2u	190	LEU	CA-C-N	5.07	127.05	120.56
1	2u	190	LEU	C-N-CA	5.07	127.05	120.56
1	2F	161	PHE	N-CA-CB	-5.07	102.66	110.12
1	2X	54	THR	O-C-N	-5.07	116.74	122.12
1	31	184	TRP	CA-C-N	5.07	127.08	120.28
1	31	184	TRP	C-N-CA	5.07	127.08	120.28
1	35	160	PRO	CA-C-O	-5.07	115.78	121.97
1	39	223	GLY	CA-C-N	5.07	125.06	119.89
1	39	223	GLY	C-N-CA	5.07	125.06	119.89
1	3n	143	ARG	CD-NE-CZ	-5.07	117.30	124.40
1	3q	159	GLU	CA-C-N	5.07	125.01	119.78
1	3q	159	GLU	C-N-CA	5.07	125.01	119.78
1	3y	98	GLU	CA-CB-CG	-5.07	103.95	114.10
1	3z	118	MET	O-C-N	5.07	127.30	122.07
1	3L	194	ALA	CA-C-O	5.07	126.77	121.19
1	3P	47	ALA	N-CA-C	5.07	118.22	110.20
1	3U	153	ILE	N-CA-C	5.07	115.59	108.89
1	4d	164	TYR	O-C-N	-5.07	116.61	122.09
1	4k	154	ARG	NH1-CZ-NH2	-5.07	112.70	119.30
1	4m	131	LYS	CA-C-O	-5.07	115.47	120.90
1	4q	227	LYS	CA-C-N	5.07	133.08	122.58
1	4q	227	LYS	C-N-CA	5.07	133.08	122.58
1	4y	216	THR	CA-CB-CG2	-5.07	101.88	110.50
1	4Q	11	VAL	CA-C-O	-5.07	116.34	121.67
1	4T	110	THR	N-CA-CB	5.07	118.66	110.85
1	4U	106	GLY	CA-C-N	5.07	127.08	120.28
1	4U	106	GLY	C-N-CA	5.07	127.08	120.28
1	53	30	LYS	O-C-N	-5.07	116.11	122.35
1	56	208	ALA	CA-C-O	5.07	125.77	119.12
1	57	154	ARG	CG-CD-NE	-5.07	100.84	112.00
1	5l	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	5C	75	GLU	CA-C-N	5.07	127.03	120.44
1	5C	75	GLU	C-N-CA	5.07	127.03	120.44
1	5E	210	THR	CB-CA-C	5.07	118.32	109.65
1	5P	73	ILE	CA-C-O	-5.07	115.67	120.95
1	5P	206	GLY	CA-C-N	5.07	126.18	119.84
1	5P	206	GLY	C-N-CA	5.07	126.18	119.84
1	5W	51	ASP	CA-CB-CG	5.07	117.67	112.60
1	5W	83	LEU	CA-C-O	5.07	125.83	120.10
1	5X	50	GLN	CA-C-O	5.07	126.65	121.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5X	148	THR	CA-C-O	-5.07	115.67	121.40
1	66	145	TYR	N-CA-C	5.07	118.61	112.93
1	69	140	LYS	CA-C-O	5.07	125.78	119.79
1	6a	207	PRO	CA-N-CD	-5.07	104.90	112.00
1	6b	76	GLU	O-C-N	-5.07	116.74	122.12
1	6o	52	LEU	O-C-N	-5.07	116.37	122.15
1	6p	10	MET	CB-CA-C	5.07	118.31	111.82
1	6q	56	LEU	N-CA-C	5.07	118.73	112.54
1	6v	165	VAL	N-CA-C	5.07	115.69	110.36
1	6W	40	PHE	CA-C-N	5.07	127.04	120.44
1	6W	40	PHE	C-N-CA	5.07	127.04	120.44
1	6Z	63	GLN	O-C-N	-5.07	116.03	122.27
1	75	87	HIS	CA-C-O	-5.07	115.36	120.84
1	7a	60	GLY	CA-C-N	5.07	126.26	120.53
1	7a	60	GLY	C-N-CA	5.07	126.26	120.53
1	7c	15	ILE	N-CA-C	5.07	119.89	109.34
1	7f	118	MET	O-C-N	-5.07	115.16	122.36
1	7i	126	VAL	N-CA-CB	5.07	117.44	110.54
1	7j	210	THR	O-C-N	-5.07	116.81	122.75
1	7l	80	TRP	CA-CB-CG	5.07	123.24	113.60
1	7l	221	VAL	O-C-N	-5.07	116.55	121.78
1	7s	55	MET	O-C-N	5.07	127.93	122.15
1	7B	60	GLY	O-C-N	-5.07	116.10	122.70
1	7B	150	ILE	CA-C-O	5.07	126.00	120.57
1	7H	62	HIS	CA-C-N	5.07	127.08	120.28
1	7H	62	HIS	C-N-CA	5.07	127.08	120.28
1	7R	213	GLU	CA-C-N	5.07	127.33	120.38
1	7R	213	GLU	C-N-CA	5.07	127.33	120.38
1	7T	53	ASN	N-CA-C	-5.07	105.83	111.36
1	7U	59	VAL	N-CA-C	5.07	115.54	108.84
1	7V	57	ASN	CA-C-N	5.07	127.59	120.28
1	7V	57	ASN	C-N-CA	5.07	127.59	120.28
1	86	167	ARG	CA-C-N	5.07	127.34	120.44
1	86	167	ARG	C-N-CA	5.07	127.34	120.44
1	8c	53	ASN	CA-C-O	5.07	125.93	120.55
1	8u	48	THR	N-CA-CB	5.07	115.50	109.72
1	8w	104	ILE	N-CA-C	5.07	115.80	110.62
1	8E	181	VAL	CB-CA-C	-5.07	105.47	111.97
1	8L	84	HIS	CA-C-N	5.07	124.38	118.85
1	8L	84	HIS	C-N-CA	5.07	124.38	118.85
1	8Q	133	TRP	CB-CG-CD2	-5.07	119.70	126.80
1	8R	112	GLN	CA-C-N	5.07	127.04	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8R	112	GLN	C-N-CA	5.07	127.04	120.44
1	8R	221	VAL	N-CA-CB	5.07	121.32	111.93
1	8T	78	ALA	CA-C-O	-5.07	115.17	120.55
1	90	133	TRP	O-C-N	-5.07	116.28	122.22
1	91	188	THR	CA-C-N	5.07	127.58	120.28
1	91	188	THR	C-N-CA	5.07	127.58	120.28
1	94	59	VAL	CA-C-N	5.07	124.79	119.92
1	94	59	VAL	C-N-CA	5.07	124.79	119.92
1	95	53	ASN	CA-CB-CG	5.07	117.67	112.60
1	9r	43	LEU	N-CA-C	-5.07	106.78	113.17
1	9z	37	ILE	N-CA-C	5.07	119.84	108.88
1	9B	105	ALA	CA-C-N	5.07	131.23	122.05
1	9B	105	ALA	C-N-CA	5.07	131.23	122.05
1	9D	112	GLN	CA-C-N	5.07	127.04	120.44
1	9D	112	GLN	C-N-CA	5.07	127.04	120.44
1	Y	84	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	9U	84	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	Z	212	GLU	CA-C-O	5.07	125.93	120.55
1	a0	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	a2	92	GLU	CB-CG-CD	-5.07	103.97	112.60
1	a4	143	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	a9	44	SER	CA-CB-OG	5.07	121.25	111.10
1	a9	202	LEU	CA-C-N	5.07	127.33	120.38
1	a9	202	LEU	C-N-CA	5.07	127.33	120.38
1	ah	167	ARG	NH1-CZ-NH2	-5.07	112.70	119.30
1	ap	7	GLN	O-C-N	-5.07	115.20	122.41
1	ar	65	ALA	O-C-N	-5.07	115.64	122.23
1	aE	75	GLU	N-CA-C	5.07	116.50	111.07
1	14	88	ALA	N-CA-C	5.07	117.59	110.23
1	aW	168	PHE	O-C-N	5.07	127.30	122.07
1	aY	207	PRO	N-CA-C	-5.07	107.42	114.27
1	ba	112	GLN	N-CA-C	5.07	116.89	111.36
1	bb	56	LEU	CA-C-N	5.07	129.19	120.72
1	bb	56	LEU	C-N-CA	5.07	129.19	120.72
1	bh	142	VAL	CA-CB-CG1	5.07	119.03	110.40
1	bj	157	PRO	O-C-N	-5.07	115.79	122.64
1	bu	30	LYS	N-CA-C	5.07	117.71	111.82
1	by	95	GLN	CA-C-N	5.07	129.60	122.09
1	by	95	GLN	C-N-CA	5.07	129.60	122.09
1	bA	42	ALA	N-CA-C	5.07	116.89	111.36
1	bE	33	SER	CA-C-O	-5.07	115.05	120.28
1	bN	163	ASP	N-CA-C	5.07	116.50	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bS	223	GLY	O-C-N	-5.07	116.70	121.77
1	1b	92	GLU	O-C-N	-5.07	115.97	120.48
1	bX	85	PRO	N-CA-C	5.07	119.28	111.21
1	c0	215	MET	N-CA-CB	5.07	117.58	110.12
1	c1	103	ASP	N-CA-C	5.07	116.50	111.07
1	c2	179	GLN	CB-CG-CD	-5.07	103.98	112.60
1	ck	50	GLN	O-C-N	5.07	127.50	122.12
1	ck	210	THR	CA-CB-OG1	5.07	117.21	109.60
1	cv	31	ALA	CB-CA-C	-5.07	110.71	116.54
1	cx	39	MET	CG-SD-CE	-5.07	89.74	100.90
1	cH	120	HIS	CB-CG-ND1	5.07	130.31	122.70
1	cI	82	ARG	CA-C-O	5.07	125.22	119.18
1	cO	179	GLN	N-CA-CB	5.07	117.58	110.12
1	cW	23	TRP	N-CA-C	5.07	117.78	111.24
1	cW	128	GLU	CA-C-N	5.07	127.14	120.60
1	cW	128	GLU	C-N-CA	5.07	127.14	120.60
1	cY	52	LEU	O-C-N	-5.07	116.74	122.12
1	cZ	225	GLY	O-C-N	-5.07	116.11	122.70
1	d7	152	ASP	N-CA-C	-5.07	107.48	113.97
1	de	128	GLU	CA-C-N	5.07	127.62	120.42
1	de	128	GLU	C-N-CA	5.07	127.62	120.42
1	do	114	GLN	OE1-CD-NE2	5.07	127.67	122.60
1	dC	70	LYS	N-CA-C	5.07	116.81	111.28
1	dN	102	SER	N-CA-C	5.07	117.54	111.71
1	dZ	209	ALA	N-CA-C	5.07	121.61	110.80
1	e8	220	GLY	N-CA-C	-5.07	108.06	115.72
1	ee	10	MET	N-CA-CB	5.07	117.50	110.04
1	ef	132	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	eh	45	GLU	N-CA-C	5.07	117.05	109.59
1	ek	87	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	er	22	ALA	N-CA-C	5.07	116.50	111.07
1	es	34	PRO	N-CA-C	5.07	121.17	113.81
1	eP	51	ASP	N-CA-C	-5.07	105.21	111.40
1	eP	185	MET	CA-C-N	5.07	127.49	120.29
1	eP	185	MET	C-N-CA	5.07	127.49	120.29
1	eU	131	LYS	N-CA-CB	-5.07	102.38	109.94
1	eZ	80	TRP	N-CA-C	5.07	116.50	111.07
1	f6	74	ASN	N-CA-C	5.07	117.47	111.33
1	fj	32	PHE	N-CA-CB	5.07	117.92	109.60
1	fr	146	SER	N-CA-C	5.07	121.02	109.81
1	fs	219	GLN	N-CA-C	-5.07	107.14	113.38
1	ft	197	ASP	CA-C-O	5.07	126.33	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fv	105	ALA	CA-C-N	5.07	129.87	122.46
1	fv	105	ALA	C-N-CA	5.07	129.87	122.46
1	fy	7	GLN	CG-CD-NE2	5.07	124.01	116.40
1	fF	148	THR	CA-C-O	-5.07	115.31	120.89
1	fH	213	GLU	CB-CA-C	-5.07	102.92	110.88
1	fQ	173	ARG	NH1-CZ-NH2	5.07	125.90	119.30
1	fZ	72	THR	CA-C-N	5.07	127.41	120.46
1	fZ	72	THR	C-N-CA	5.07	127.41	120.46
1	0	129	ILE	CA-CB-CG1	5.07	119.03	110.40
1	c	74	ASN	N-CA-C	5.07	116.81	111.28
1	g	191	VAL	N-CA-CB	5.07	118.19	110.58
1	u	64	ALA	N-CA-CB	5.07	117.43	110.07
1	C	34	PRO	N-CA-CB	-5.07	98.64	103.41
1	F	181	VAL	N-CA-C	-5.07	105.44	110.62
1	H	68	MET	CA-C-O	-5.07	115.49	120.82
1	P	81	ASP	O-C-N	-5.07	116.74	122.12
1	P	90	PRO	CA-C-N	5.07	131.10	121.97
1	P	90	PRO	C-N-CA	5.07	131.10	121.97
1	W	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	5	118	MET	N-CA-C	5.07	117.47	111.33
1	5	193	ASN	CA-C-O	5.07	125.42	119.28
1	8	79	GLU	CA-C-O	-5.07	115.04	120.42
1	g9	187	GLU	O-C-N	-5.07	116.37	122.15
1	gc	155	GLN	CA-C-O	5.07	126.49	120.66
1	gj	32	PHE	N-CA-CB	-5.07	103.15	110.56
1	gl	101	GLY	N-CA-C	5.07	118.78	112.64
1	gp	229	ARG	CA-C-O	-5.07	115.43	121.16
1	gC	144	MET	N-CA-C	5.07	116.81	111.28
1	gO	48	THR	CA-C-N	5.07	125.10	119.32
1	gO	48	THR	C-N-CA	5.07	125.10	119.32
1	gQ	139	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	h4	132	ARG	N-CA-C	5.07	116.50	111.07
1	hf	37	ILE	N-CA-C	5.07	118.44	112.35
1	hi	80	TRP	O-C-N	-5.07	116.74	122.12
1	hr	44	SER	CB-CA-C	-5.07	102.85	111.02
1	hB	10	MET	CG-SD-CE	-5.07	89.74	100.90
1	hD	18	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	hT	38	PRO	CA-C-O	-5.07	112.68	120.03
1	hT	121	ASN	CA-C-O	-5.07	115.63	119.59
1	1N	153	ILE	CA-C-O	-5.07	114.04	120.89
1	ih	183	ASN	CA-C-O	-5.07	115.48	120.70
1	iD	195	ASN	O-C-N	-5.07	116.04	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iV	42	ALA	CA-C-N	5.07	127.33	120.38
1	iV	42	ALA	C-N-CA	5.07	127.33	120.38
1	j2	57	ASN	CA-CB-CG	-5.07	107.53	112.60
1	k0	56	LEU	O-C-N	-5.07	116.85	122.07
1	k0	82	ARG	CA-C-O	5.07	125.92	120.70
1	k4	103	ASP	N-CA-CB	5.07	117.42	110.07
1	k9	87	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	kd	43	LEU	N-CA-C	5.07	119.11	113.02
1	kj	175	GLU	CA-C-N	5.07	129.82	122.36
1	kj	175	GLU	C-N-CA	5.07	129.82	122.36
1	kp	179	GLN	N-CA-CB	5.07	117.58	110.12
1	kv	90	PRO	CB-CA-C	5.07	119.93	111.56
1	kx	4	GLN	N-CA-C	5.07	118.81	111.56
1	kA	46	GLY	CA-C-O	5.07	124.74	119.06
1	23	117	TRP	CB-CG-CD2	-5.07	119.70	126.80
1	kF	167	ARG	CA-CB-CG	5.07	124.24	114.10
1	24	72	THR	CA-CB-OG1	-5.07	101.99	109.60
1	kR	221	VAL	N-CA-C	-5.07	98.79	109.34
1	kU	53	ASN	O-C-N	-5.07	116.29	122.22
1	kV	211	LEU	O-C-N	-5.07	116.74	122.12
1	lb	58	THR	N-CA-CB	5.07	118.42	110.46
1	lg	117	TRP	CB-CG-CD2	5.07	133.90	126.80
1	27	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	2a	56	LEU	CA-C-O	5.07	125.93	120.55
1	2g	230	VAL	N-CA-CB	5.07	117.08	110.99
1	2h	154	ARG	N-CA-C	-5.07	100.75	108.76
1	2V	158	LYS	N-CA-CB	5.07	118.20	110.44
1	32	110	THR	N-CA-CB	5.07	117.51	110.26
1	37	184	TRP	N-CA-CB	5.07	117.58	110.12
1	3c	2	ILE	CB-CA-C	5.07	117.74	110.84
1	3h	41	SER	N-CA-C	5.07	117.20	111.11
1	3h	90	PRO	N-CA-CB	-5.07	97.92	103.25
1	3i	192	GLN	CG-CD-NE2	5.07	124.01	116.40
1	3w	166	ASP	N-CA-CB	-5.07	102.38	109.94
1	3x	5	ASN	CA-C-N	5.07	130.85	121.52
1	3x	5	ASN	C-N-CA	5.07	130.85	121.52
1	3L	176	GLN	CB-CA-C	5.07	118.66	111.86
1	3N	174	ALA	N-CA-C	-5.07	105.40	112.30
1	4Q	90	PRO	N-CA-CB	5.07	107.57	103.36
1	5e	164	TYR	CA-C-N	5.07	127.41	120.46
1	5e	164	TYR	C-N-CA	5.07	127.41	120.46
1	5v	203	LYS	N-CA-C	5.07	116.50	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5M	115	ILE	CA-C-N	5.07	126.48	120.14
1	5M	115	ILE	C-N-CA	5.07	126.48	120.14
1	5N	168	PHE	CA-C-N	5.07	127.58	120.28
1	5N	168	PHE	C-N-CA	5.07	127.58	120.28
1	5P	88	ALA	N-CA-C	5.07	118.39	110.32
1	5P	191	VAL	N-CA-C	5.07	115.92	111.56
1	5Q	209	ALA	CA-C-O	5.07	126.84	121.16
1	5S	33	SER	CA-C-O	-5.07	114.52	119.69
1	5W	201	ILE	CA-CB-CG1	5.07	119.02	110.40
1	6j	219	GLN	CA-C-N	5.07	129.95	120.87
1	6j	219	GLN	C-N-CA	5.07	129.95	120.87
1	6F	26	VAL	N-CA-CB	5.07	116.14	110.51
1	6N	165	VAL	CA-C-N	5.07	127.49	120.29
1	6N	165	VAL	C-N-CA	5.07	127.49	120.29
1	6X	8	GLY	O-C-N	5.07	128.20	122.82
1	6Z	107	THR	CB-CA-C	-5.07	102.92	110.88
1	7f	49	PRO	CA-C-N	5.07	127.08	120.28
1	7f	49	PRO	C-N-CA	5.07	127.08	120.28
1	7g	11	VAL	O-C-N	-5.07	117.72	123.20
1	7o	152	ASP	CA-C-O	5.07	126.93	121.55
1	7r	50	GLN	CA-C-N	5.07	127.49	120.29
1	7r	50	GLN	C-N-CA	5.07	127.49	120.29
1	7I	80	TRP	CH2-CZ2-CE2	5.07	124.09	117.50
1	7O	215	MET	CA-C-N	5.07	128.72	120.60
1	7O	215	MET	C-N-CA	5.07	128.72	120.60
1	86	196	PRO	N-CA-C	5.07	120.21	113.57
1	8k	117	TRP	CB-CG-CD2	5.07	133.90	126.80
1	8H	98	GLU	CB-CG-CD	5.07	121.22	112.60
1	8N	57	ASN	CA-CB-CG	-5.07	107.53	112.60
1	8X	79	GLU	CA-CB-CG	-5.07	103.96	114.10
1	94	17	PRO	CA-C-N	5.07	128.02	120.31
1	94	17	PRO	C-N-CA	5.07	128.02	120.31
1	9n	16	SER	N-CA-CB	5.07	117.71	109.90
1	9z	107	THR	CA-CB-CG2	5.07	119.12	110.50
1	9T	78	ALA	N-CA-C	5.07	117.20	111.11
1	a5	78	ALA	N-CA-CB	-5.07	102.66	110.12
1	a9	143	ARG	CA-C-O	-5.07	115.17	120.55
1	ah	143	ARG	CG-CD-NE	-5.07	100.84	112.00
1	an	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	ao	90	PRO	N-CA-C	5.07	119.16	111.15
1	b5	184	TRP	CB-CA-C	5.07	118.84	110.88
1	17	134	ILE	CA-CB-CG1	-5.07	101.78	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	90	PRO	CA-N-CD	5.07	119.10	112.00
1	br	103	ASP	CB-CA-C	-5.07	99.47	109.67
1	bC	66	MET	CA-C-O	5.07	126.15	120.82
1	bF	132	ARG	CB-CG-CD	5.07	122.97	111.30
1	bG	206	GLY	CA-C-O	-5.07	117.16	122.38
1	bI	10	MET	N-CA-CB	5.07	117.50	110.04
1	bM	219	GLN	N-CA-C	-5.07	106.50	113.30
1	bO	230	VAL	N-CA-C	5.07	115.79	110.62
1	c6	187	GLU	CA-C-O	-5.07	115.50	120.82
1	co	101	GLY	CA-C-N	5.07	127.08	120.28
1	co	101	GLY	C-N-CA	5.07	127.08	120.28
1	cu	220	GLY	N-CA-C	-5.07	107.27	115.08
1	cy	101	GLY	CA-C-N	5.07	127.08	120.28
1	cy	101	GLY	C-N-CA	5.07	127.08	120.28
1	cJ	82	ARG	NH1-CZ-NH2	-5.07	112.71	119.30
1	1g	121	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	d2	142	VAL	CA-C-O	5.07	126.68	121.05
1	d2	143	ARG	N-CA-C	5.07	116.81	111.28
1	dW	167	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	ei	84	HIS	CA-CB-CG	-5.07	108.73	113.80
1	eu	24	VAL	CA-C-N	5.07	127.08	120.28
1	eu	24	VAL	C-N-CA	5.07	127.08	120.28
1	eu	176	GLN	N-CA-C	-5.07	106.94	112.72
1	eD	215	MET	CG-SD-CE	-5.07	89.74	100.90
1	f0	173	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	f6	24	VAL	CA-C-O	5.07	126.55	121.17
1	fE	15	ILE	N-CA-C	5.07	117.79	109.78
1	1z	28	GLU	O-C-N	-5.07	116.85	122.07
1	n	107	THR	N-CA-CB	5.07	117.64	110.13
1	C	74	ASN	CB-CA-C	5.07	119.47	110.85
1	gj	187	GLU	O-C-N	-5.07	115.64	122.23
1	gq	79	GLU	CA-C-N	5.07	127.03	120.44
1	gq	79	GLU	C-N-CA	5.07	127.03	120.44
1	gA	141	ILE	N-CA-C	-5.07	105.76	110.53
1	gB	55	MET	CA-C-N	5.07	127.58	120.28
1	gB	55	MET	C-N-CA	5.07	127.58	120.28
1	gC	201	ILE	CA-C-N	5.07	128.02	120.31
1	gC	201	ILE	C-N-CA	5.07	128.02	120.31
1	gG	62	HIS	CB-CG-ND1	-5.07	115.10	122.70
1	gL	15	ILE	CA-CB-CG1	5.07	119.02	110.40
1	gO	25	LYS	CA-CB-CG	5.07	124.24	114.10
1	gY	45	GLU	CA-C-N	5.07	128.46	121.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gY	45	GLU	C-N-CA	5.07	128.46	121.26
1	h3	36	VAL	CA-CB-CG2	-5.07	101.78	110.40
1	ha	112	GLN	N-CA-C	5.07	116.81	111.28
1	hc	116	GLY	CA-C-N	5.07	127.33	120.44
1	hc	116	GLY	C-N-CA	5.07	127.33	120.44
1	ho	95	GLN	O-C-N	-5.07	115.85	122.59
1	hz	88	ALA	O-C-N	-5.07	117.30	123.13
1	hO	127	GLY	O-C-N	5.07	127.06	122.19
1	hV	105	ALA	O-C-N	-5.07	115.46	122.46
1	i2	223	GLY	O-C-N	-5.07	116.70	121.77
1	i3	114	GLN	O-C-N	5.07	127.93	122.15
1	i8	108	THR	N-CA-CB	-5.07	102.81	110.92
1	if	63	GLN	CG-CD-NE2	5.07	124.01	116.40
1	ig	166	ASP	CA-C-O	5.07	125.92	120.55
1	il	183	ASN	CA-C-O	5.07	126.14	120.82
1	io	57	ASN	O-C-N	-5.07	115.03	122.43
1	iu	24	VAL	CB-CA-C	-5.07	105.22	112.22
1	ix	41	SER	O-C-N	-5.07	116.75	122.12
1	iF	33	SER	O-C-N	-5.07	116.65	121.57
1	iH	119	THR	CA-CB-OG1	5.07	117.20	109.60
1	iI	134	ILE	CA-C-N	5.07	128.62	120.30
1	iI	134	ILE	C-N-CA	5.07	128.62	120.30
1	iK	165	VAL	CA-C-N	5.07	127.34	120.44
1	iK	165	VAL	C-N-CA	5.07	127.34	120.44
1	iK	176	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	iY	59	VAL	N-CA-C	5.07	115.29	110.42
1	j0	169	TYR	CA-C-O	-5.07	115.18	120.55
1	jk	210	THR	O-C-N	-5.07	116.41	122.65
1	1X	77	ALA	CA-C-O	5.07	125.92	120.55
1	jK	48	THR	CA-CB-OG1	5.07	117.20	109.60
1	jW	120	HIS	O-C-N	-5.07	117.07	122.85
1	k1	116	GLY	CA-C-N	5.07	127.08	120.28
1	k1	116	GLY	C-N-CA	5.07	127.08	120.28
1	k4	26	VAL	O-C-N	-5.07	116.94	121.91
1	k6	14	ALA	N-CA-C	-5.07	102.98	110.48
1	ka	219	GLN	O-C-N	-5.07	117.44	123.22
1	kb	108	THR	CA-CB-OG1	5.07	117.20	109.60
1	ki	103	ASP	CA-CB-CG	5.07	117.67	112.60
1	km	18	ARG	CA-C-N	5.07	127.07	120.28
1	km	18	ARG	C-N-CA	5.07	127.07	120.28
1	kt	90	PRO	N-CA-C	5.07	122.92	112.47
1	kt	162	ARG	CG-CD-NE	-5.07	100.85	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kC	107	THR	CB-CA-C	-5.07	102.92	110.88
1	kC	190	LEU	N-CA-C	-5.07	105.75	111.28
1	kI	77	ALA	N-CA-C	5.07	116.81	111.28
1	kM	170	LYS	CA-C-O	5.07	125.80	120.42
1	25	78	ALA	CA-C-N	5.07	127.08	120.28
1	25	78	ALA	C-N-CA	5.07	127.08	120.28
1	26	181	VAL	N-CA-C	5.07	115.84	110.72
1	la	186	THR	O-C-N	-5.07	116.29	122.22
1	ld	189	LEU	CA-C-O	5.07	125.60	119.31
1	27	190	LEU	N-CA-C	5.07	116.50	111.07
1	lj	165	VAL	N-CA-CB	5.07	118.19	110.58
1	lo	190	LEU	N-CA-CB	-5.07	102.67	110.12
1	lv	199	LYS	N-CA-CB	-5.07	102.67	110.12
1	lA	214	MET	CG-SD-CE	-5.07	89.75	100.90
1	lE	62	HIS	CG-CD2-NE2	-5.07	102.13	107.20
1	lK	57	ASN	CA-CB-CG	-5.07	107.53	112.60
1	lL	181	VAL	CB-CA-C	5.07	118.46	111.97
1	lQ	4	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	lQ	141	ILE	CB-CA-C	-5.07	105.22	112.22
1	lQ	203	LYS	N-CA-C	5.07	116.81	111.28
1	2c	173	ARG	CA-C-O	-5.07	115.17	120.55
1	2e	51	ASP	CA-C-N	5.07	127.34	120.44
1	2e	51	ASP	C-N-CA	5.07	127.34	120.44
1	2e	182	LYS	N-CA-C	5.07	116.81	111.28
1	2f	10	MET	N-CA-C	5.07	117.39	110.24
1	2m	52	LEU	CA-C-N	5.07	127.07	120.28
1	2m	52	LEU	C-N-CA	5.07	127.07	120.28
1	2m	150	ILE	O-C-N	-5.07	116.95	121.87
1	2t	105	ALA	O-C-N	5.07	128.86	122.37
1	2t	162	ARG	NE-CZ-NH2	5.07	123.76	119.20
1	2F	111	LEU	CA-C-O	-5.07	115.15	120.63
1	2G	160	PRO	CA-C-O	-5.07	115.63	121.36
1	2K	48	THR	CA-CB-OG1	5.07	117.20	109.60
1	2K	208	ALA	N-CA-CB	-5.07	102.87	110.73
1	2O	17	PRO	O-C-N	-5.07	115.42	122.27
1	2Z	78	ALA	CA-C-N	5.07	127.03	120.44
1	2Z	78	ALA	C-N-CA	5.07	127.03	120.44
1	30	78	ALA	CA-C-N	5.07	127.39	120.54
1	30	78	ALA	C-N-CA	5.07	127.39	120.54
1	31	199	LYS	CA-C-O	5.07	126.11	120.63
1	3g	227	LYS	N-CA-C	5.07	117.58	110.23
1	3k	215	MET	CA-C-O	5.07	125.60	119.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3n	117	TRP	CB-CG-CD1	-5.07	119.29	126.90
1	3p	38	PRO	N-CA-C	-5.07	106.61	113.40
1	3q	27	VAL	N-CA-C	5.07	115.79	110.62
1	3s	111	LEU	CA-C-N	5.07	127.49	120.29
1	3s	111	LEU	C-N-CA	5.07	127.49	120.29
1	3s	156	GLY	O-C-N	-5.07	116.70	121.77
1	3u	180	GLU	CA-C-N	5.07	126.95	120.56
1	3u	180	GLU	C-N-CA	5.07	126.95	120.56
1	3B	1	PRO	CA-C-N	5.07	130.80	122.64
1	3B	1	PRO	C-N-CA	5.07	130.80	122.64
1	3B	166	ASP	CA-C-O	5.07	126.33	120.90
1	3L	98	GLU	N-CA-CB	5.07	117.94	109.98
1	3P	88	ALA	CB-CA-C	-5.07	100.96	109.53
1	3V	80	TRP	CB-CG-CD2	5.07	133.90	126.80
1	3V	159	GLU	CA-C-O	-5.07	114.54	119.51
1	41	145	TYR	CA-CB-CG	-5.07	104.77	113.90
1	48	3	VAL	CB-CA-C	5.07	118.28	111.28
1	49	132	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	4f	185	MET	CA-C-O	5.07	125.80	120.42
1	4u	60	GLY	CA-C-O	-5.07	111.75	120.57
1	4B	161	PHE	N-CA-C	5.07	116.81	111.28
1	4D	95	GLN	N-CA-C	5.07	117.04	109.59
1	4J	69	LEU	N-CA-C	-5.07	105.64	111.07
1	4P	12	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	4U	215	MET	CG-SD-CE	-5.07	89.74	100.90
1	4U	216	THR	N-CA-C	-5.07	106.87	113.16
1	53	30	LYS	N-CA-C	-5.07	107.13	113.72
1	5d	129	ILE	CA-C-N	-5.07	112.60	120.31
1	5d	129	ILE	C-N-CA	-5.07	112.60	120.31
1	5h	120	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	5k	175	GLU	N-CA-C	-5.07	102.28	110.14
1	5m	99	PRO	CB-CA-C	5.07	119.93	111.56
1	5t	162	ARG	CA-C-N	5.07	127.34	120.44
1	5t	162	ARG	C-N-CA	5.07	127.34	120.44
1	5u	220	GLY	CA-C-N	5.07	128.09	120.69
1	5u	220	GLY	C-N-CA	5.07	128.09	120.69
1	5v	111	LEU	CA-C-O	5.07	125.62	119.38
1	5B	63	GLN	CB-CG-CD	5.07	121.22	112.60
1	5K	120	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	62	184	TRP	N-CA-C	5.07	116.50	111.07
1	6e	167	ARG	CA-CB-CG	5.07	124.24	114.10
1	6p	163	ASP	CA-C-N	5.07	127.33	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6p	163	ASP	C-N-CA	5.07	127.33	120.38
1	6r	65	ALA	CA-C-N	5.07	127.07	120.28
1	6r	65	ALA	C-N-CA	5.07	127.07	120.28
1	6s	76	GLU	N-CA-CB	-5.07	102.67	110.12
1	6t	190	LEU	N-CA-C	5.07	117.54	111.71
1	6w	220	GLY	O-C-N	-5.07	116.51	122.34
1	6B	113	GLU	O-C-N	-5.07	116.03	122.27
1	6L	136	LEU	CA-C-N	5.07	125.58	120.00
1	6L	136	LEU	C-N-CA	5.07	125.58	120.00
1	6P	41	SER	CA-C-N	5.07	127.03	120.44
1	6P	41	SER	C-N-CA	5.07	127.03	120.44
1	70	60	GLY	CA-C-N	-5.07	114.47	121.06
1	70	60	GLY	C-N-CA	-5.07	114.47	121.06
1	72	74	ASN	CA-C-O	5.07	126.14	120.82
1	7d	125	PRO	N-CD-CG	5.07	110.81	103.20
1	7h	79	GLU	O-C-N	-5.07	116.37	122.15
1	7m	110	THR	CA-CB-OG1	5.07	117.20	109.60
1	7x	113	GLU	O-C-N	-5.07	116.75	122.12
1	7C	57	ASN	N-CA-CB	-5.07	102.14	110.40
1	7C	181	VAL	N-CA-C	5.07	115.29	110.42
1	7E	112	GLN	N-CA-C	-5.07	105.83	111.36
1	7H	27	VAL	N-CA-C	5.07	115.79	110.62
1	7N	181	VAL	O-C-N	-5.07	116.63	121.90
1	7P	145	TYR	CA-C-N	5.07	128.39	120.68
1	7P	145	TYR	C-N-CA	5.07	128.39	120.68
1	7Y	53	ASN	CA-CB-CG	-5.07	107.53	112.60
1	86	63	GLN	N-CA-C	5.07	117.70	111.82
1	86	163	ASP	CA-C-N	5.07	127.33	120.44
1	86	163	ASP	C-N-CA	5.07	127.33	120.44
1	8a	80	TRP	N-CA-C	5.07	117.70	111.82
1	8h	133	TRP	CB-CG-CD1	5.07	134.51	126.90
1	8y	211	LEU	N-CA-CB	5.07	117.57	110.12
1	8I	142	VAL	CA-C-N	5.07	127.07	120.28
1	8I	142	VAL	C-N-CA	5.07	127.07	120.28
1	8J	218	CYS	O-C-N	-5.07	115.85	122.59
1	8N	175	GLU	N-CA-C	5.07	117.46	111.33
1	8O	175	GLU	O-C-N	-5.07	116.70	122.89
1	8Z	77	ALA	CB-CA-C	-5.07	101.25	110.63
1	90	40	PHE	CA-CB-CG	5.07	118.87	113.80
1	90	189	LEU	N-CA-CB	-5.07	102.67	110.12
1	93	173	ARG	NE-CZ-NH2	5.07	123.76	119.20
1	9g	21	ASN	OD1-CG-ND2	5.07	127.67	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9j	162	ARG	N-CA-C	5.07	121.60	110.80
1	9k	139	ASN	CA-C-O	-5.07	115.16	120.63
1	9r	2	ILE	CA-CB-CG2	-5.07	101.88	110.50
1	9D	57	ASN	OD1-CG-ND2	-5.07	117.53	122.60
1	a2	159	GLU	CA-C-N	5.07	125.07	119.90
1	a2	159	GLU	C-N-CA	5.07	125.07	119.90
1	a9	37	ILE	O-C-N	-5.07	115.32	121.10
1	a9	173	ARG	N-CA-C	5.07	116.89	111.36
1	aa	168	PHE	CA-C-O	5.07	125.92	120.55
1	aj	154	ARG	NE-CZ-NH1	-5.07	116.43	121.50
1	ak	129	ILE	CA-C-N	5.07	127.39	120.54
1	ak	129	ILE	C-N-CA	5.07	127.39	120.54
1	as	23	TRP	O-C-N	-5.07	116.85	122.07
1	au	183	ASN	CA-CB-CG	-5.07	107.53	112.60
1	au	226	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	aB	34	PRO	CA-C-O	-5.07	112.30	118.99
1	aC	210	THR	N-CA-CB	5.07	117.47	110.17
1	aD	172	LEU	CA-C-O	5.07	126.14	120.82
1	13	100	ARG	CB-CG-CD	5.07	122.96	111.30
1	aF	175	GLU	CA-C-N	5.07	129.32	122.07
1	aF	175	GLU	C-N-CA	5.07	129.32	122.07
1	aJ	111	LEU	CA-C-N	5.07	127.38	120.54
1	aJ	111	LEU	C-N-CA	5.07	127.38	120.54
1	aM	212	GLU	CB-CG-CD	-5.07	103.98	112.60
1	14	57	ASN	CB-CG-ND2	5.07	124.00	116.40
1	aP	187	GLU	N-CA-CB	-5.07	103.08	110.53
1	aU	146	SER	CA-C-O	-5.07	113.92	118.79
1	b1	119	THR	N-CA-CB	5.07	118.27	110.61
1	b2	226	HIS	O-C-N	-5.07	116.75	122.12
1	b4	50	GLN	N-CA-C	5.07	117.54	111.71
1	16	47	ALA	O-C-N	-5.07	116.69	122.93
1	bi	206	GLY	CA-C-N	-5.07	114.49	120.12
1	bi	206	GLY	C-N-CA	-5.07	114.49	120.12
1	bj	87	HIS	CB-CG-CD2	5.07	137.79	131.20
1	bl	148	THR	O-C-N	-5.07	116.88	122.86
1	18	38	PRO	CA-C-N	-5.07	113.48	120.28
1	18	38	PRO	C-N-CA	-5.07	113.48	120.28
1	bs	133	TRP	CZ3-CH2-CZ2	-5.07	114.91	121.50
1	bx	41	SER	N-CA-C	5.07	116.81	111.28
1	by	187	GLU	O-C-N	-5.07	116.37	122.15
1	bH	87	HIS	N-CA-CB	-5.07	102.16	110.42
1	1a	142	VAL	CA-CB-CG2	-5.07	101.78	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bM	163	ASP	CB-CA-C	-5.07	102.23	110.85
1	bO	151	LEU	CA-C-O	5.07	125.64	119.05
1	bU	184	TRP	CA-C-O	5.07	125.92	120.55
1	1b	107	THR	CA-C-O	5.07	126.14	120.82
1	bZ	98	GLU	O-C-N	-5.07	116.21	121.28
1	bZ	140	LYS	CA-C-N	5.07	127.14	120.60
1	bZ	140	LYS	C-N-CA	5.07	127.14	120.60
1	bZ	167	ARG	CA-C-N	5.07	127.84	120.79
1	bZ	167	ARG	C-N-CA	5.07	127.84	120.79
1	c2	144	MET	CA-C-N	5.07	127.33	120.38
1	c2	144	MET	C-N-CA	5.07	127.33	120.38
1	c3	95	GLN	O-C-N	-5.07	117.44	123.22
1	c7	137	GLY	CA-C-N	5.07	127.58	120.28
1	c7	137	GLY	C-N-CA	5.07	127.58	120.28
1	cg	225	GLY	O-C-N	-5.07	116.11	122.70
1	cn	68	MET	CA-C-O	5.07	125.83	120.10
1	cs	178	SER	N-CA-C	5.07	116.83	110.24
1	cv	27	VAL	O-C-N	-5.07	116.61	121.83
1	cv	85	PRO	N-CA-CB	5.07	107.58	103.32
1	cD	182	LYS	CB-CG-CD	5.07	122.96	111.30
1	cE	76	GLU	O-C-N	-5.07	116.75	122.12
1	cG	133	TRP	N-CA-CB	5.07	117.57	110.12
1	cH	143	ARG	O-C-N	-5.07	116.75	122.12
1	cL	99	PRO	CA-C-O	-5.07	115.04	120.97
1	cM	227	LYS	CA-C-O	5.07	125.60	119.11
1	cO	24	VAL	CA-C-N	5.07	127.03	120.44
1	cO	24	VAL	C-N-CA	5.07	127.03	120.44
1	cP	157	PRO	O-C-N	5.07	129.45	122.35
1	cY	110	THR	CA-C-N	5.07	128.43	120.82
1	cY	110	THR	C-N-CA	5.07	128.43	120.82
1	cY	194	ALA	N-CA-C	5.07	117.65	110.50
1	d9	194	ALA	CA-C-O	5.07	127.76	120.51
1	da	30	LYS	O-C-N	-5.07	115.46	122.46
1	db	87	HIS	CA-C-N	5.07	128.05	120.90
1	db	87	HIS	C-N-CA	5.07	128.05	120.90
1	dh	141	ILE	O-C-N	-5.07	116.95	121.87
1	di	162	ARG	CG-CD-NE	-5.07	100.84	112.00
1	dn	82	ARG	NH1-CZ-NH2	-5.07	112.71	119.30
1	dr	113	GLU	N-CA-C	5.07	116.50	111.07
1	ds	91	ILE	N-CA-C	5.07	115.79	110.62
1	dw	78	ALA	O-C-N	-5.07	116.75	122.12
1	dH	63	GLN	N-CA-C	5.07	119.31	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dI	8	GLY	CA-C-O	5.07	124.89	119.06
1	dL	70	LYS	N-CA-C	5.07	117.54	111.71
1	dO	199	LYS	CB-CA-C	-5.07	102.92	110.88
1	dR	97	ARG	CA-C-O	5.07	127.45	121.87
1	dT	136	LEU	O-C-N	-5.07	116.82	122.09
1	dU	22	ALA	CA-C-N	5.07	127.07	120.28
1	dU	22	ALA	C-N-CA	5.07	127.07	120.28
1	e8	29	GLU	CB-CA-C	-5.07	100.55	109.07
1	ea	76	GLU	CB-CA-C	5.07	119.21	110.79
1	ea	140	LYS	O-C-N	-5.07	116.82	122.09
1	eb	212	GLU	CB-CA-C	-5.07	102.37	110.79
1	ed	92	GLU	O-C-N	-5.07	115.95	121.53
1	eo	74	ASN	CA-C-N	5.07	127.03	120.44
1	eo	74	ASN	C-N-CA	5.07	127.03	120.44
1	ex	201	ILE	CB-CA-C	-5.07	105.48	111.97
1	ey	65	ALA	CA-C-O	5.07	125.92	120.70
1	eA	81	ASP	N-CA-C	5.07	116.81	111.28
1	eD	117	TRP	N-CA-CB	5.07	117.58	110.12
1	eF	57	ASN	CA-CB-CG	-5.07	107.53	112.60
1	eS	110	THR	CB-CA-C	5.07	118.84	109.71
1	eT	82	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	eX	144	MET	CG-SD-CE	-5.07	89.75	100.90
1	f9	67	GLN	CG-CD-NE2	5.07	124.00	116.40
1	1v	139	ASN	CA-CB-CG	5.07	117.67	112.60
1	fk	18	ARG	CG-CD-NE	-5.07	100.85	112.00
1	fs	167	ARG	CA-CB-CG	5.07	124.24	114.10
1	1x	73	ILE	CA-CB-CG1	5.07	119.02	110.40
1	fx	24	VAL	N-CA-C	5.07	115.22	110.30
1	fM	31	ALA	N-CA-CB	-5.07	101.92	110.49
1	fR	11	VAL	CA-C-O	-5.07	114.98	120.36
1	g4	40	PHE	CA-C-N	5.07	127.39	120.54
1	g4	40	PHE	C-N-CA	5.07	127.39	120.54
1	a	152	ASP	CA-C-O	5.07	125.28	119.35
1	f	216	THR	CA-CB-OG1	-5.07	102.00	109.60
1	1	151	LEU	CB-CA-C	-5.07	102.37	110.79
1	C	197	ASP	N-CA-CB	-5.07	102.42	110.28
1	3	82	ARG	NE-CZ-NH2	-5.07	114.64	119.20
1	F	164	TYR	CA-C-N	5.07	127.62	120.42
1	F	164	TYR	C-N-CA	5.07	127.62	120.42
1	G	6	LEU	CA-C-N	5.07	127.91	120.71
1	G	6	LEU	C-N-CA	5.07	127.91	120.71
1	J	188	THR	CA-C-N	5.07	127.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	188	THR	C-N-CA	5.07	127.03	120.44
1	M	205	LEU	N-CA-CB	5.07	117.67	110.16
1	4	54	THR	O-C-N	-5.07	116.61	122.09
1	4	69	LEU	CA-C-N	5.07	127.08	120.28
1	4	69	LEU	C-N-CA	5.07	127.08	120.28
1	Q	184	TRP	CA-C-N	5.07	127.78	120.38
1	Q	184	TRP	C-N-CA	5.07	127.78	120.38
1	V	137	GLY	CA-C-N	5.07	127.07	120.28
1	V	137	GLY	C-N-CA	5.07	127.07	120.28
1	X	92	GLU	CA-C-O	-5.07	115.06	120.28
1	g9	75	GLU	CA-C-N	5.07	127.07	120.28
1	g9	75	GLU	C-N-CA	5.07	127.07	120.28
1	gc	39	MET	CA-C-N	5.07	127.03	120.44
1	gc	39	MET	C-N-CA	5.07	127.03	120.44
1	gH	120	HIS	N-CA-C	5.07	116.64	110.41
1	gO	140	LYS	CA-C-N	5.07	126.95	120.56
1	gO	140	LYS	C-N-CA	5.07	126.95	120.56
1	h0	99	PRO	CB-CA-C	5.07	118.00	111.56
1	h9	162	ARG	CA-C-N	5.07	127.33	120.44
1	h9	162	ARG	C-N-CA	5.07	127.33	120.44
1	hh	3	VAL	CA-CB-CG1	5.07	119.02	110.40
1	hh	7	GLN	CA-C-N	5.07	131.34	121.41
1	hh	7	GLN	C-N-CA	5.07	131.34	121.41
1	hy	2	ILE	CA-C-N	5.07	129.71	123.12
1	hy	2	ILE	C-N-CA	5.07	129.71	123.12
1	hC	67	GLN	O-C-N	-5.07	116.37	122.15
1	hE	174	ALA	CA-C-O	5.07	127.23	120.13
1	1M	150	ILE	N-CA-CB	-5.07	105.36	112.35
1	hV	136	LEU	CA-C-O	5.07	125.92	120.55
1	hX	37	ILE	CA-C-O	-5.07	113.16	119.95
1	i2	104	ILE	O-C-N	-5.07	116.07	121.80
1	ih	12	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	il	9	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	ir	140	LYS	N-CA-C	5.07	116.89	111.36
1	is	100	ARG	O-C-N	-5.07	116.42	122.65
1	iM	48	THR	N-CA-C	-5.07	104.23	110.31
1	iY	115	ILE	CA-C-O	5.07	126.22	120.95
1	1U	53	ASN	N-CA-CB	5.07	117.57	110.12
1	jY	181	VAL	CA-CB-CG2	-5.07	101.78	110.40
1	kj	177	ALA	CA-C-N	5.07	128.27	120.82
1	kj	177	ALA	C-N-CA	5.07	128.27	120.82
1	kk	99	PRO	N-CA-C	5.07	118.84	111.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	23	172	LEU	O-C-N	-5.07	115.65	122.19
1	kZ	173	ARG	N-CA-C	5.07	118.72	112.54
1	l1	204	ALA	N-CA-C	5.07	117.19	111.11
1	lh	146	SER	O-C-N	-5.07	116.42	121.19
1	27	117	TRP	CB-CG-CD2	-5.07	119.70	126.80
1	ls	113	GLU	CA-C-N	5.07	127.03	120.44
1	ls	113	GLU	C-N-CA	5.07	127.03	120.44
1	lE	23	TRP	CB-CG-CD1	-5.07	119.30	126.90
1	lI	183	ASN	CA-CB-CG	-5.07	107.53	112.60
1	2l	217	ALA	CA-C-O	5.07	126.84	121.16
1	2m	79	GLU	O-C-N	-5.07	116.85	122.07
1	3b	182	LYS	CA-C-N	5.07	127.38	120.54
1	3b	182	LYS	C-N-CA	5.07	127.38	120.54
1	3k	129	ILE	CA-C-O	5.07	126.68	121.41
1	3t	71	GLU	CA-C-N	5.07	127.03	120.44
1	3t	71	GLU	C-N-CA	5.07	127.03	120.44
1	4l	42	ALA	N-CA-C	5.07	116.49	111.07
1	4m	66	MET	N-CA-C	5.07	116.89	111.36
1	4t	162	ARG	N-CA-C	5.07	117.19	111.11
1	4y	52	LEU	N-CA-C	5.07	117.19	111.11
1	4C	28	GLU	O-C-N	-5.07	116.61	122.09
1	4C	82	ARG	CA-C-N	5.07	127.33	120.44
1	4C	82	ARG	C-N-CA	5.07	127.33	120.44
1	4E	62	HIS	CA-CB-CG	5.07	118.87	113.80
1	4V	194	ALA	N-CA-CB	-5.07	103.44	110.38
1	5d	203	LYS	CG-CD-CE	5.07	122.96	111.30
1	5o	30	LYS	N-CA-C	5.07	118.56	111.56
1	5I	166	ASP	N-CA-CB	5.07	117.36	110.01
1	5Y	57	ASN	CA-C-O	5.07	125.28	119.35
1	65	161	PHE	CA-CB-CG	5.07	118.87	113.80
1	6m	183	ASN	N-CA-CB	-5.07	102.67	110.12
1	6y	185	MET	N-CA-C	-5.07	105.67	111.14
1	6N	75	GLU	N-CA-CB	5.07	117.36	110.01
1	70	87	HIS	CB-CG-ND1	5.07	130.30	122.70
1	7d	203	LYS	CA-C-N	5.07	127.07	120.28
1	7d	203	LYS	C-N-CA	5.07	127.07	120.28
1	7s	185	MET	N-CA-C	5.07	116.81	111.28
1	7z	169	TYR	O-C-N	-5.07	116.75	122.12
1	8H	92	GLU	CA-C-O	-5.07	115.24	120.87
1	8O	86	VAL	N-CA-C	5.07	115.84	110.72
1	8W	173	ARG	CA-C-O	-5.07	114.37	120.10
1	96	168	PHE	CA-C-O	-5.07	115.50	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9s	19	THR	O-C-N	5.07	127.49	122.12
1	9D	179	GLN	O-C-N	5.07	127.29	122.07
1	9J	100	ARG	NE-CZ-NH2	-5.07	114.64	119.20
1	a5	200	THR	N-CA-CB	5.07	117.36	110.01
1	a9	18	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	aw	231	LEU	N-CA-CB	-5.07	101.88	110.50
1	aN	62	HIS	CA-CB-CG	-5.07	108.73	113.80
1	aZ	223	GLY	CA-C-N	5.07	125.07	119.90
1	aZ	223	GLY	C-N-CA	5.07	125.07	119.90
1	b0	220	GLY	N-CA-C	-5.07	108.06	115.72
1	bg	68	MET	O-C-N	-5.07	116.75	122.12
1	18	115	ILE	N-CA-C	5.07	115.29	110.42
1	bu	23	TRP	CA-C-N	5.07	127.40	120.46
1	bu	23	TRP	C-N-CA	5.07	127.40	120.46
1	bv	38	PRO	CA-C-N	5.07	127.07	120.28
1	bv	38	PRO	C-N-CA	5.07	127.07	120.28
1	bz	183	ASN	CB-CG-OD1	5.07	130.94	120.80
1	bF	23	TRP	CE3-CZ3-CH2	-5.07	114.51	121.10
1	bZ	165	VAL	CA-CB-CG1	5.07	119.02	110.40
1	c4	147	PRO	N-CA-C	5.07	122.91	112.47
1	c5	59	VAL	N-CA-C	5.07	119.88	109.34
1	c6	3	VAL	CA-C-N	5.07	131.22	121.54
1	c6	3	VAL	C-N-CA	5.07	131.22	121.54
1	ca	84	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	ce	28	GLU	CA-C-N	-5.07	112.80	122.53
1	ce	28	GLU	C-N-CA	-5.07	112.80	122.53
1	ce	84	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	cz	54	THR	N-CA-CB	5.07	117.36	110.01
1	cZ	114	GLN	N-CA-C	5.07	116.81	111.28
1	d0	25	LYS	CA-C-N	5.07	127.41	120.46
1	d0	25	LYS	C-N-CA	5.07	127.41	120.46
1	dA	30	LYS	CA-C-O	-5.07	113.20	119.18
1	dP	42	ALA	O-C-N	-5.07	116.04	122.27
1	e3	127	GLY	CA-C-O	-5.07	115.29	120.66
1	ei	80	TRP	N-CA-C	-5.07	105.65	111.07
1	1r	57	ASN	CA-CB-CG	5.07	117.67	112.60
1	eS	106	GLY	CA-C-O	5.07	124.81	119.03
1	f5	137	GLY	CA-C-O	-5.07	115.53	120.75
1	fc	209	ALA	O-C-N	-5.07	116.88	122.86
1	fe	127	GLY	CA-C-N	-5.07	113.85	120.44
1	fe	127	GLY	C-N-CA	-5.07	113.85	120.44
1	fN	229	ARG	NE-CZ-NH1	5.07	126.57	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1z	140	LYS	N-CA-C	5.07	116.49	111.07
1	d	195	ASN	CB-CA-C	5.07	118.63	109.61
1	f	177	ALA	N-CA-CB	5.07	117.18	110.29
1	g	77	ALA	O-C-N	5.07	127.29	122.07
1	k	139	ASN	CA-CB-CG	-5.07	107.53	112.60
1	3	44	SER	CA-C-O	5.07	124.78	119.51
1	N	32	PHE	N-CA-C	5.07	118.58	111.74
1	N	62	HIS	N-CA-C	5.07	117.81	108.58
1	g9	139	ASN	CB-CG-OD1	5.07	130.94	120.80
1	gc	12	HIS	CA-C-O	-5.07	115.04	120.46
1	gg	80	TRP	CA-C-N	5.07	127.49	120.29
1	gg	80	TRP	C-N-CA	5.07	127.49	120.29
1	gm	170	LYS	N-CA-C	5.07	116.49	111.07
1	gw	175	GLU	O-C-N	-5.07	117.01	122.79
1	gy	62	HIS	CG-ND1-CE1	-5.07	100.69	109.30
1	gA	17	PRO	CA-C-N	5.07	127.33	120.44
1	gA	17	PRO	C-N-CA	5.07	127.33	120.44
1	gA	91	ILE	N-CA-C	5.07	115.78	108.48
1	gC	160	PRO	CA-C-N	5.07	127.07	120.28
1	gC	160	PRO	C-N-CA	5.07	127.07	120.28
1	gD	200	THR	CA-CB-CG2	5.07	119.11	110.50
1	1F	138	LEU	CA-C-N	5.07	127.07	120.28
1	1F	138	LEU	C-N-CA	5.07	127.07	120.28
1	gP	89	GLY	CA-C-N	5.07	124.98	119.76
1	gP	89	GLY	C-N-CA	5.07	124.98	119.76
1	h2	165	VAL	N-CA-CB	5.07	119.32	110.65
1	h3	95	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	h7	10	MET	N-CA-CB	5.07	119.41	111.20
1	1J	35	GLU	O-C-N	-5.07	116.04	122.27
1	hQ	39	MET	N-CA-C	5.07	116.49	111.07
1	hX	68	MET	CB-CA-C	5.07	119.20	110.79
1	hX	120	HIS	CA-C-N	5.07	129.35	122.56
1	hX	120	HIS	C-N-CA	5.07	129.35	122.56
1	i1	48	THR	OG1-CB-CG2	-5.07	99.17	109.30
1	i2	39	MET	CA-C-N	5.07	127.03	120.44
1	i2	39	MET	C-N-CA	5.07	127.03	120.44
1	i9	48	THR	CA-CB-CG2	-5.07	101.89	110.50
1	ij	120	HIS	CA-CB-CG	-5.07	108.73	113.80
1	ik	106	GLY	CA-C-O	5.07	124.73	119.06
1	1P	49	PRO	CA-C-N	5.07	127.32	120.38
1	1P	49	PRO	C-N-CA	5.07	127.32	120.38
1	is	138	LEU	N-CA-CB	5.07	117.66	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iy	7	GLN	CA-C-O	-5.07	115.61	121.19
1	iD	195	ASN	CA-C-N	5.07	126.17	119.84
1	iD	195	ASN	C-N-CA	5.07	126.17	119.84
1	iM	189	LEU	CA-C-O	5.07	125.92	120.55
1	iO	109	SER	CA-C-N	5.07	128.90	120.94
1	iO	109	SER	C-N-CA	5.07	128.90	120.94
1	iO	210	THR	N-CA-CB	5.07	117.61	110.36
1	iQ	43	LEU	N-CA-C	-5.07	106.88	113.16
1	iQ	123	PRO	CA-C-N	5.07	126.05	122.60
1	iQ	123	PRO	C-N-CA	5.07	126.05	122.60
1	iS	117	TRP	CE2-CD2-CE3	5.07	123.87	118.80
1	iU	130	TYR	N-CA-CB	-5.07	102.43	110.28
1	j0	189	LEU	N-CA-C	5.07	116.80	111.28
1	j6	87	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	j7	163	ASP	O-C-N	5.07	127.56	122.09
1	ja	108	THR	CA-C-O	5.07	125.49	119.56
1	jb	218	CYS	O-C-N	-5.07	115.64	122.43
1	1U	45	GLU	O-C-N	5.07	129.75	123.01
1	jc	184	TRP	O-C-N	-5.07	116.75	122.12
1	1V	216	THR	CA-CB-OG1	5.07	117.20	109.60
1	js	68	MET	CB-CA-C	-5.07	102.38	110.79
1	jv	221	VAL	CA-C-O	-5.07	115.08	121.11
1	1W	17	PRO	N-CA-CB	5.07	108.86	103.39
1	jH	10	MET	N-CA-C	5.07	118.21	110.20
1	kb	216	THR	N-CA-C	-5.07	105.22	111.40
1	kc	181	VAL	N-CA-C	5.07	115.79	110.62
1	kh	60	GLY	CA-C-N	5.07	128.85	121.05
1	kh	60	GLY	C-N-CA	5.07	128.85	121.05
1	ko	102	SER	CB-CA-C	-5.07	102.38	110.79
1	ko	143	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	kp	66	MET	CA-C-N	5.07	127.03	120.44
1	kp	66	MET	C-N-CA	5.07	127.03	120.44
1	kD	80	TRP	CB-CA-C	5.07	118.92	110.81
1	23	71	GLU	CB-CG-CD	5.07	121.22	112.60
1	kL	166	ASP	O-C-N	-5.07	116.29	122.22
1	kW	62	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	lc	210	THR	CA-CB-OG1	5.07	117.20	109.60
1	28	130	TYR	CA-C-N	5.07	127.07	120.28
1	28	130	TYR	C-N-CA	5.07	127.07	120.28
1	lv	76	GLU	N-CA-C	-5.07	105.85	112.23
1	lI	134	ILE	CA-C-N	5.07	127.40	120.46
1	lI	134	ILE	C-N-CA	5.07	127.40	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lP	84	HIS	CA-C-N	5.07	126.17	119.84
1	lP	84	HIS	C-N-CA	5.07	126.17	119.84
1	lP	173	ARG	NH1-CZ-NH2	-5.07	112.71	119.30
1	2d	99	PRO	N-CA-CB	5.07	108.57	103.25
1	2I	150	ILE	CA-C-N	5.07	128.71	120.60
1	2I	150	ILE	C-N-CA	5.07	128.71	120.60
1	2K	206	GLY	CA-C-N	5.07	126.17	119.84
1	2K	206	GLY	C-N-CA	5.07	126.17	119.84
1	2M	128	GLU	N-CA-C	5.07	116.88	111.36
1	2S	36	VAL	CA-C-N	5.07	124.38	120.33
1	2S	36	VAL	C-N-CA	5.07	124.38	120.33
1	35	102	SER	CA-C-O	5.07	125.80	119.97
1	3e	154	ARG	O-C-N	-5.07	116.56	123.10
1	3t	27	VAL	CA-C-O	5.07	124.07	119.20
1	3H	144	MET	O-C-N	5.07	129.36	122.37
1	3S	16	SER	CA-C-N	5.07	124.37	118.85
1	3S	16	SER	C-N-CA	5.07	124.37	118.85
1	3V	15	ILE	N-CA-C	5.07	119.88	109.34
1	3V	142	VAL	CB-CA-C	5.07	118.37	111.88
1	40	96	MET	O-C-N	-5.07	117.38	123.06
1	40	120	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	41	106	GLY	CA-C-O	5.07	123.97	118.95
1	45	100	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	45	212	GLU	CA-C-O	5.07	126.32	120.90
1	48	184	TRP	CE3-CZ3-CH2	5.07	127.69	121.10
1	4g	72	THR	N-CA-CB	5.07	117.57	110.12
1	4i	1	PRO	CB-CA-C	5.07	119.73	110.10
1	4l	205	LEU	CA-C-N	5.07	129.82	121.87
1	4l	205	LEU	C-N-CA	5.07	129.82	121.87
1	4y	11	VAL	CA-C-O	5.07	126.72	120.84
1	4R	40	PHE	N-CA-C	5.07	116.80	111.28
1	54	100	ARG	N-CA-CB	-5.07	102.87	110.17
1	54	162	ARG	N-CA-C	5.07	116.80	111.28
1	5a	177	ALA	CA-C-O	-5.07	116.18	121.55
1	5b	171	THR	CA-C-N	5.07	127.58	120.28
1	5b	171	THR	C-N-CA	5.07	127.58	120.28
1	5c	190	LEU	N-CA-C	5.07	116.49	111.07
1	5C	66	MET	O-C-N	-5.07	116.75	122.12
1	5Z	72	THR	N-CA-CB	5.07	117.57	110.12
1	6a	126	VAL	CA-C-N	5.07	125.61	119.98
1	6a	126	VAL	C-N-CA	5.07	125.61	119.98
1	6e	39	MET	O-C-N	-5.07	116.82	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6o	62	HIS	CG-ND1-CE1	-5.07	100.69	109.30
1	6o	69	LEU	O-C-N	-5.07	116.85	122.07
1	6t	52	LEU	O-C-N	-5.07	116.75	122.12
1	6x	196	PRO	N-CD-CG	5.07	110.80	103.20
1	6B	87	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	6J	76	GLU	N-CA-C	5.07	116.88	111.36
1	6L	100	ARG	CA-C-N	5.07	125.71	120.03
1	6L	100	ARG	C-N-CA	5.07	125.71	120.03
1	6L	100	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	6M	40	PHE	CA-C-N	5.07	127.03	120.44
1	6M	40	PHE	C-N-CA	5.07	127.03	120.44
1	6Q	178	SER	N-CA-C	5.07	117.24	110.35
1	6S	21	ASN	CA-C-O	5.07	125.83	120.10
1	6X	87	HIS	CA-CB-CG	5.07	118.87	113.80
1	6X	113	GLU	N-CA-CB	5.07	117.42	110.07
1	6Y	180	GLU	O-C-N	-5.07	116.75	122.12
1	70	29	GLU	CB-CG-CD	-5.07	103.99	112.60
1	7d	27	VAL	N-CA-C	5.07	115.68	110.36
1	7p	165	VAL	N-CA-CB	5.07	116.48	110.55
1	7t	169	TYR	CA-CB-CG	-5.07	104.78	113.90
1	7K	71	GLU	CB-CA-C	5.07	118.84	110.88
1	7L	71	GLU	CA-CB-CG	-5.07	103.96	114.10
1	7P	182	LYS	O-C-N	-5.07	116.75	122.12
1	7W	80	TRP	CA-CB-CG	5.07	123.23	113.60
1	80	177	ALA	N-CA-C	5.07	121.59	110.80
1	82	177	ALA	CA-C-N	5.07	128.27	120.82
1	82	177	ALA	C-N-CA	5.07	128.27	120.82
1	83	96	MET	N-CA-C	5.07	121.59	110.80
1	88	119	THR	N-CA-CB	5.07	117.99	110.49
1	89	135	ILE	N-CA-C	5.07	117.39	111.05
1	8e	126	VAL	CA-CB-CG1	5.07	119.01	110.40
1	8o	37	ILE	CB-CA-C	5.07	120.64	114.00
1	8D	221	VAL	CA-C-N	5.07	130.10	120.07
1	8D	221	VAL	C-N-CA	5.07	130.10	120.07
1	8Z	46	GLY	CA-C-O	5.07	129.39	120.57
1	91	214	MET	CB-CA-C	-5.07	102.38	110.79
1	92	212	GLU	CA-CB-CG	5.07	124.24	114.10
1	9b	145	TYR	CA-CB-CG	-5.07	104.78	113.90
1	9c	167	ARG	CA-C-N	5.07	127.49	120.29
1	9c	167	ARG	C-N-CA	5.07	127.49	120.29
1	9d	59	VAL	O-C-N	-5.07	116.76	122.94
1	9e	63	GLN	N-CA-C	5.07	118.61	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9i	5	ASN	CA-CB-CG	-5.07	107.53	112.60
1	9l	27	VAL	CG1-CB-CG2	-5.07	99.65	110.80
1	9m	68	MET	N-CA-C	5.07	116.49	111.07
1	9p	29	GLU	N-CA-C	5.07	116.89	111.36
1	9K	96	MET	O-C-N	-5.07	117.43	123.11
1	9Z	31	ALA	N-CA-C	5.07	117.13	108.67
1	9Z	51	ASP	CA-C-N	5.07	127.03	120.44
1	9Z	51	ASP	C-N-CA	5.07	127.03	120.44
1	a0	59	VAL	N-CA-CB	5.07	116.54	110.31
1	a3	48	THR	CA-C-N	5.07	125.35	119.47
1	a3	48	THR	C-N-CA	5.07	125.35	119.47
1	a9	179	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	10	160	PRO	CA-C-O	-5.07	117.48	121.38
1	ah	95	GLN	N-CA-CB	5.07	120.26	111.39
1	aj	130	TYR	CA-C-N	5.07	127.07	120.28
1	aj	130	TYR	C-N-CA	5.07	127.07	120.28
1	11	158	LYS	O-C-N	-5.07	117.08	122.30
1	au	57	ASN	O-C-N	-5.07	115.64	122.43
1	aB	12	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	b5	75	GLU	CB-CA-C	-5.07	102.92	110.88
1	bb	151	LEU	N-CA-CB	5.07	118.66	110.40
1	17	16	SER	O-C-N	-5.07	114.19	121.54
1	br	52	LEU	N-CA-C	5.07	116.80	111.28
1	bx	111	LEU	N-CA-C	5.07	117.46	111.33
1	19	27	VAL	CG1-CB-CG2	-5.07	99.65	110.80
1	bH	215	MET	CG-SD-CE	-5.07	89.75	100.90
1	bJ	214	MET	N-CA-C	5.07	116.80	111.28
1	bN	186	THR	N-CA-CB	5.07	117.66	110.16
1	bY	54	THR	N-CA-CB	5.07	117.49	109.94
1	c7	109	SER	N-CA-C	5.07	117.23	109.07
1	c9	173	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	cg	186	THR	O-C-N	-5.07	115.47	122.46
1	ci	110	THR	N-CA-C	5.07	116.64	110.41
1	cr	174	ALA	CA-C-N	5.07	129.18	120.72
1	cr	174	ALA	C-N-CA	5.07	129.18	120.72
1	cw	76	GLU	N-CA-C	5.07	116.88	111.36
1	cE	144	MET	N-CA-C	5.07	116.49	111.07
1	cF	17	PRO	CA-C-N	-5.07	113.09	120.29
1	cF	17	PRO	C-N-CA	-5.07	113.09	120.29
1	cG	149	SER	N-CA-C	5.07	116.65	108.34
1	cI	118	MET	CG-SD-CE	-5.07	89.75	100.90
1	cK	3	VAL	N-CA-CB	5.07	118.23	111.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cQ	150	ILE	N-CA-C	-5.07	106.97	112.80
1	cQ	164	TYR	CA-C-O	-5.07	115.18	120.55
1	cR	99	PRO	CA-C-O	-5.07	115.75	121.98
1	d0	95	GLN	N-CA-C	5.07	118.21	110.20
1	dd	84	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	df	74	ASN	CA-C-N	5.07	127.07	120.28
1	df	74	ASN	C-N-CA	5.07	127.07	120.28
1	dn	6	LEU	CA-C-O	5.07	127.09	120.81
1	dn	213	GLU	CA-C-O	5.07	125.79	120.42
1	du	24	VAL	CA-CB-CG2	-5.07	101.78	110.40
1	dK	58	THR	N-CA-C	-5.07	105.65	111.07
1	dP	143	ARG	O-C-N	-5.07	116.85	122.07
1	dS	3	VAL	O-C-N	-5.07	117.79	123.26
1	e7	70	LYS	CA-C-O	5.07	125.92	120.55
1	ej	16	SER	CB-CA-C	5.07	116.02	108.87
1	en	28	GLU	N-CA-CB	5.07	117.57	110.12
1	ep	20	LEU	CD1-CG-CD2	-5.07	99.65	110.80
1	ex	48	THR	CA-CB-OG1	5.07	117.20	109.60
1	eE	10	MET	N-CA-C	5.07	121.60	110.80
1	eL	48	THR	O-C-N	-5.07	115.96	121.53
1	eN	166	ASP	CA-C-O	5.07	126.14	120.82
1	1t	142	VAL	N-CA-C	5.07	115.79	110.62
1	eS	198	CYS	CA-C-O	5.07	124.76	119.03
1	eU	171	THR	CA-C-N	5.07	127.49	120.29
1	eU	171	THR	C-N-CA	5.07	127.49	120.29
1	eZ	76	GLU	CA-C-N	5.07	127.03	120.44
1	eZ	76	GLU	C-N-CA	5.07	127.03	120.44
1	f0	53	ASN	CA-CB-CG	5.07	117.67	112.60
1	f6	53	ASN	N-CA-C	5.07	116.80	111.28
1	f8	27	VAL	O-C-N	-5.07	116.95	121.87
1	fc	10	MET	N-CA-C	5.07	121.59	110.80
1	ff	5	ASN	CB-CA-C	5.07	118.42	109.80
1	fs	99	PRO	N-CA-C	5.07	119.16	111.15
1	ft	221	VAL	CA-C-N	5.07	130.61	122.40
1	ft	221	VAL	C-N-CA	5.07	130.61	122.40
1	1x	148	THR	N-CA-CB	5.07	118.03	109.92
1	fw	74	ASN	CA-CB-CG	-5.07	107.53	112.60
1	fx	88	ALA	O-C-N	-5.07	116.67	122.95
1	fz	195	ASN	CA-C-N	5.07	126.17	119.84
1	fz	195	ASN	C-N-CA	5.07	126.17	119.84
1	fD	31	ALA	O-C-N	-5.07	115.85	122.59
1	fL	117	TRP	NE1-CE2-CD2	-5.07	100.81	107.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fQ	6	LEU	CA-C-O	5.07	124.39	118.97
1	fT	228	ALA	N-CA-C	5.07	116.83	110.24
1	fV	13	GLN	CA-C-N	5.07	127.91	120.71
1	fV	13	GLN	C-N-CA	5.07	127.91	120.71
1	fV	132	ARG	N-CA-CB	5.07	117.57	110.12
1	fV	163	ASP	N-CA-CB	5.07	117.36	110.01
1	0	167	ARG	O-C-N	-5.07	116.37	122.15
1	L	23	TRP	CG-CD2-CE3	-5.07	128.83	133.90
1	L	26	VAL	CA-C-O	-5.07	115.80	121.17
1	R	58	THR	N-CA-CB	5.07	118.11	110.30
1	S	120	HIS	CB-CG-CD2	-5.07	124.61	131.20
1	g9	23	TRP	CB-CG-CD2	-5.07	119.71	126.80
1	g9	138	LEU	O-C-N	-5.07	116.75	122.12
1	gh	188	THR	CA-CB-CG2	5.07	119.11	110.50
1	gk	145	TYR	CA-C-N	5.07	134.16	121.80
1	gk	145	TYR	C-N-CA	5.07	134.16	121.80
1	gq	92	GLU	CB-CA-C	5.07	117.43	109.27
1	gM	55	MET	N-CA-CB	5.07	117.36	110.01
1	gO	115	ILE	CA-C-O	5.07	126.22	120.95
1	gS	33	SER	CA-C-N	5.07	126.17	119.84
1	gS	33	SER	C-N-CA	5.07	126.17	119.84
1	gT	22	ALA	CA-C-N	5.07	127.34	120.65
1	gT	22	ALA	C-N-CA	5.07	127.34	120.65
1	gV	164	TYR	O-C-N	5.07	127.56	122.09
1	gW	2	ILE	O-C-N	-5.07	117.71	122.98
1	h0	208	ALA	CA-C-O	5.07	127.09	120.81
1	h1	231	LEU	N-CA-CB	-5.07	101.89	110.50
1	h5	97	ARG	O-C-N	-5.07	115.85	122.59
1	ha	117	TRP	CA-C-O	-5.07	115.48	120.90
1	hb	28	GLU	CB-CG-CD	5.07	121.21	112.60
1	hs	150	ILE	O-C-N	-5.07	116.78	121.90
1	hs	226	HIS	CE1-NE2-CD2	-5.07	103.94	109.00
1	hA	130	TYR	O-C-N	-5.07	116.38	122.15
1	hE	145	TYR	CB-CG-CD1	5.07	128.40	120.80
1	1L	56	LEU	CA-C-N	5.07	130.57	121.66
1	1L	56	LEU	C-N-CA	5.07	130.57	121.66
1	hO	122	PRO	CA-C-N	5.07	125.35	119.93
1	hO	122	PRO	C-N-CA	5.07	125.35	119.93
1	1N	81	ASP	N-CA-CB	5.07	118.13	110.28
1	i5	57	ASN	N-CA-C	5.07	118.72	112.54
1	ib	32	PHE	N-CA-C	-5.07	106.69	112.92
1	ik	5	ASN	O-C-N	-5.07	117.01	123.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ik	146	SER	O-C-N	-5.07	115.49	121.32
1	il	216	THR	CA-C-O	5.07	125.93	119.95
1	im	21	ASN	CB-CA-C	5.07	118.83	110.88
1	io	186	THR	N-CA-CB	5.07	117.93	110.33
1	iw	12	HIS	N-CA-CB	5.07	119.19	110.68
1	iw	185	MET	N-CA-C	5.07	116.49	111.07
1	ix	40	PHE	CA-C-O	5.07	126.14	120.82
1	iF	116	GLY	CA-C-N	5.07	127.07	120.28
1	iF	116	GLY	C-N-CA	5.07	127.07	120.28
1	1R	63	GLN	N-CA-C	5.07	117.46	111.33
1	j2	32	PHE	O-C-N	-5.07	115.63	122.22
1	j6	104	ILE	CA-CB-CG2	-5.07	101.89	110.50
1	ja	27	VAL	CA-C-O	-5.07	115.00	120.47
1	ja	150	ILE	N-CA-C	5.07	115.79	110.62
1	jn	13	GLN	O-C-N	-5.07	117.61	123.33
1	jp	18	ARG	NH1-CZ-NH2	5.07	125.89	119.30
1	jp	93	PRO	CA-C-N	5.07	129.12	120.91
1	jp	93	PRO	C-N-CA	5.07	129.12	120.91
1	jz	172	LEU	CA-C-N	5.07	127.07	120.28
1	jz	172	LEU	C-N-CA	5.07	127.07	120.28
1	jC	178	SER	N-CA-CB	5.07	118.03	109.92
1	jF	181	VAL	O-C-N	-5.07	116.95	121.91
1	1X	180	GLU	CA-C-O	-5.07	115.05	120.42
1	jI	13	GLN	CA-CB-CG	5.07	124.23	114.10
1	jI	19	THR	O-C-N	-5.07	116.76	122.03
1	k1	112	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	k8	64	ALA	N-CA-CB	-5.07	102.66	110.16
1	k8	179	GLN	CA-C-N	5.07	127.38	120.54
1	k8	179	GLN	C-N-CA	5.07	127.38	120.54
1	20	217	ALA	N-CA-CB	-5.07	102.43	110.28
1	ka	61	GLY	N-CA-C	5.07	117.90	112.33
1	kj	23	TRP	CA-CB-CG	5.07	123.22	113.60
1	22	193	ASN	CA-CB-CG	5.07	117.67	112.60
1	kv	95	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	kC	18	ARG	NH1-CZ-NH2	-5.07	112.72	119.30
1	kJ	3	VAL	N-CA-C	-5.07	100.91	108.46
1	kN	190	LEU	CA-C-N	-5.07	117.79	123.16
1	kN	190	LEU	C-N-CA	-5.07	117.79	123.16
1	kN	195	ASN	OD1-CG-ND2	5.07	127.67	122.60
1	kQ	167	ARG	CA-C-N	5.07	127.33	120.44
1	kQ	167	ARG	C-N-CA	5.07	127.33	120.44
1	25	73	ILE	CB-CA-C	-5.07	105.49	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l2	226	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	lb	113	GLU	CA-C-O	5.07	125.92	120.55
1	le	210	THR	CA-CB-OG1	5.07	117.20	109.60
1	li	192	GLN	N-CA-CB	-5.07	101.98	110.39
1	lk	6	LEU	CA-C-O	5.07	125.80	119.97
1	ln	148	THR	N-CA-CB	5.07	117.50	110.26
1	lr	78	ALA	CA-C-N	5.07	127.07	120.28
1	lr	78	ALA	C-N-CA	5.07	127.07	120.28
1	28	9	GLN	CB-CG-CD	-5.07	103.99	112.60
1	lv	88	ALA	CA-C-N	5.07	129.82	121.87
1	lv	88	ALA	C-N-CA	5.07	129.82	121.87
1	lz	137	GLY	CA-C-N	5.07	127.07	120.28
1	lz	137	GLY	C-N-CA	5.07	127.07	120.28
1	lA	66	MET	N-CA-C	5.07	116.80	111.28
1	lA	133	TRP	CB-CG-CD2	-5.07	119.71	126.80
1	lL	105	ALA	CA-C-N	5.07	131.34	121.41
1	lL	105	ALA	C-N-CA	5.07	131.34	121.41
1	2a	77	ALA	CB-CA-C	-5.07	102.24	110.85
1	2e	204	ALA	CA-C-N	5.07	127.48	120.29
1	2e	204	ALA	C-N-CA	5.07	127.48	120.29
1	2s	32	PHE	CA-C-N	5.07	128.38	120.68
1	2s	32	PHE	C-N-CA	5.07	128.38	120.68
1	2w	210	THR	O-C-N	-5.07	117.07	122.85
1	2J	79	GLU	CB-CG-CD	5.07	121.21	112.60
1	2L	10	MET	N-CA-C	5.07	117.69	110.24
1	2O	133	TRP	CD2-CE2-CZ2	-5.07	117.33	122.40
1	2R	140	LYS	CA-C-N	5.07	126.94	120.56
1	2R	140	LYS	C-N-CA	5.07	126.94	120.56
1	2R	210	THR	CA-C-O	5.07	126.92	121.55
1	2U	52	LEU	CB-CA-C	-5.07	102.71	110.81
1	33	162	ARG	CA-C-N	5.07	128.01	120.31
1	33	162	ARG	C-N-CA	5.07	128.01	120.31
1	39	74	ASN	N-CA-C	5.07	116.88	111.36
1	3j	11	VAL	CB-CA-C	5.07	118.30	110.50
1	3p	143	ARG	O-C-N	-5.07	116.04	122.17
1	3C	226	HIS	N-CA-CB	5.07	119.05	110.49
1	3M	47	ALA	N-CA-CB	-5.07	102.30	109.85
1	3P	145	TYR	CB-CG-CD2	-5.07	113.20	120.80
1	3Q	101	GLY	CA-C-O	5.07	129.38	120.57
1	4g	120	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	4h	184	TRP	CA-CB-CG	5.07	123.22	113.60
1	4k	18	ARG	CA-C-N	5.07	127.03	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	18	ARG	C-N-CA	5.07	127.03	120.44
1	4p	188	THR	CA-C-N	5.07	127.03	120.44
1	4p	188	THR	C-N-CA	5.07	127.03	120.44
1	4r	76	GLU	CA-C-O	5.07	125.92	120.55
1	4u	221	VAL	CA-C-N	5.07	131.34	121.41
1	4u	221	VAL	C-N-CA	5.07	131.34	121.41
1	4v	220	GLY	CA-C-N	5.07	128.15	120.75
1	4v	220	GLY	C-N-CA	5.07	128.15	120.75
1	4B	140	LYS	N-CA-C	-5.07	105.84	111.36
1	4P	162	ARG	CA-C-O	5.07	125.92	120.55
1	4Z	216	THR	OG1-CB-CG2	-5.07	99.17	109.30
1	51	55	MET	CG-SD-CE	-5.07	89.76	100.90
1	52	78	ALA	CA-C-N	5.07	127.38	120.54
1	52	78	ALA	C-N-CA	5.07	127.38	120.54
1	5l	103	ASP	CA-CB-CG	-5.07	107.53	112.60
1	5w	48	THR	CA-C-O	-5.07	115.42	120.64
1	5C	225	GLY	O-C-N	-5.07	116.08	122.82
1	5F	102	SER	O-C-N	-5.07	115.64	122.43
1	5L	45	GLU	N-CA-C	5.07	117.51	109.96
1	5L	79	GLU	N-CA-C	5.07	116.49	111.07
1	5R	52	LEU	N-CA-C	5.07	116.80	111.28
1	5T	26	VAL	N-CA-CB	5.07	119.94	110.77
1	5V	197	ASP	CA-C-O	5.07	125.79	120.42
1	5Y	97	ARG	N-CA-C	5.07	117.39	110.55
1	64	140	LYS	CA-C-O	5.07	125.79	120.42
1	6a	85	PRO	CA-C-N	5.07	131.09	121.97
1	6a	85	PRO	C-N-CA	5.07	131.09	121.97
1	6j	87	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	6N	77	ALA	N-CA-CB	-5.07	102.66	110.16
1	6Q	62	HIS	CA-CB-CG	5.07	118.86	113.80
1	6X	226	HIS	N-CA-C	5.07	116.54	108.79
1	6Z	72	THR	CA-C-O	5.07	126.14	120.82
1	6Z	82	ARG	N-CA-C	5.07	116.49	111.07
1	74	116	GLY	CA-C-N	5.07	127.58	120.28
1	74	116	GLY	C-N-CA	5.07	127.58	120.28
1	76	212	GLU	CB-CG-CD	5.07	121.21	112.60
1	7m	100	ARG	N-CA-CB	5.07	117.68	110.44
1	7p	57	ASN	CA-CB-CG	-5.07	107.53	112.60
1	7r	58	THR	N-CA-C	5.07	117.46	111.33
1	7E	219	GLN	N-CA-C	5.07	117.56	109.96
1	7G	43	LEU	CA-C-O	5.07	125.92	120.55
1	7G	226	HIS	ND1-CE1-NE2	5.07	113.47	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7I	16	SER	O-C-N	-5.07	116.90	121.31
1	7S	97	ARG	N-CA-CB	5.07	118.15	110.45
1	7Y	166	ASP	CA-CB-CG	5.07	117.67	112.60
1	7Z	61	GLY	CA-C-N	5.07	129.60	122.46
1	7Z	61	GLY	C-N-CA	5.07	129.60	122.46
1	81	149	SER	N-CA-CB	-5.07	102.75	110.45
1	8c	114	GLN	CB-CA-C	5.07	119.20	110.79
1	8d	55	MET	CA-C-O	5.07	126.14	120.82
1	8d	171	THR	N-CA-C	5.07	116.80	111.28
1	8g	19	THR	N-CA-CB	5.07	117.41	110.07
1	8p	121	ASN	CB-CG-OD1	5.07	130.93	120.80
1	8r	218	CYS	N-CA-C	5.07	118.58	111.74
1	8v	200	THR	CA-C-N	5.07	127.40	120.46
1	8v	200	THR	C-N-CA	5.07	127.40	120.46
1	8z	73	ILE	CA-C-O	5.07	126.68	121.41
1	8F	215	MET	CA-C-N	5.07	130.75	122.65
1	8F	215	MET	C-N-CA	5.07	130.75	122.65
1	8K	122	PRO	CA-C-N	5.07	125.00	119.78
1	8K	122	PRO	C-N-CA	5.07	125.00	119.78
1	8M	198	CYS	O-C-N	-5.07	116.04	122.27
1	8U	135	ILE	CA-C-N	5.07	127.57	120.28
1	8U	135	ILE	C-N-CA	5.07	127.57	120.28
1	9d	12	HIS	CA-C-N	5.07	130.54	122.94
1	9d	12	HIS	C-N-CA	5.07	130.54	122.94
1	9e	210	THR	CA-C-O	-5.07	115.99	121.87
1	9g	22	ALA	CB-CA-C	-5.07	102.38	110.79
1	9i	53	ASN	N-CA-CB	5.07	117.35	110.01
1	9m	195	ASN	CA-C-N	5.07	124.37	118.85
1	9m	195	ASN	C-N-CA	5.07	124.37	118.85
1	9o	138	LEU	CA-C-O	-5.07	114.38	120.10
1	9o	177	ALA	CA-C-N	5.07	128.86	121.31
1	9o	177	ALA	C-N-CA	5.07	128.86	121.31
1	9C	6	LEU	O-C-N	-5.07	116.29	122.22
1	9J	1	PRO	CB-CA-C	5.07	119.73	110.10
1	9L	185	MET	CG-SD-CE	-5.07	89.75	100.90
1	9P	117	TRP	CH2-CZ2-CE2	5.07	124.08	117.50
1	Z	22	ALA	N-CA-C	5.07	116.80	111.28
1	a4	183	ASN	CA-CB-CG	-5.07	107.53	112.60
1	ag	12	HIS	CB-CG-ND1	-5.07	115.10	122.70
1	ag	140	LYS	CA-C-N	5.07	126.94	120.56
1	ag	140	LYS	C-N-CA	5.07	126.94	120.56
1	at	156	GLY	CA-C-N	5.07	124.56	119.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	at	156	GLY	C-N-CA	5.07	124.56	119.19
1	ay	163	ASP	CB-CG-OD2	5.07	130.05	118.40
1	aD	42	ALA	CA-C-O	-5.07	115.18	120.55
1	13	28	GLU	N-CA-C	5.07	116.49	111.07
1	aJ	92	GLU	CA-C-N	5.07	126.17	119.84
1	aJ	92	GLU	C-N-CA	5.07	126.17	119.84
1	aP	47	ALA	CA-C-N	5.07	130.03	121.92
1	aP	47	ALA	C-N-CA	5.07	130.03	121.92
1	aS	170	LYS	O-C-N	-5.07	116.38	122.15
1	aY	62	HIS	CB-CA-C	-5.07	105.33	111.82
1	aZ	185	MET	CG-SD-CE	-5.07	89.76	100.90
1	b0	185	MET	N-CA-C	-5.07	106.61	112.89
1	b8	125	PRO	N-CA-C	-5.07	102.03	112.47
1	bm	54	THR	N-CA-CB	5.07	117.49	109.94
1	bo	56	LEU	N-CA-CB	5.07	117.49	109.94
1	bo	140	LYS	N-CA-C	5.07	116.80	111.28
1	bq	166	ASP	N-CA-CB	-5.07	102.67	110.12
1	bs	217	ALA	CA-C-N	5.07	129.33	122.19
1	bs	217	ALA	C-N-CA	5.07	129.33	122.19
1	bB	149	SER	CA-C-O	-5.07	115.83	121.81
1	bJ	213	GLU	N-CA-C	5.07	116.61	111.14
1	bS	73	ILE	N-CA-C	5.07	115.68	110.36
1	bT	100	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	bU	87	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	bV	17	PRO	N-CA-C	-5.07	106.61	113.40
1	bV	25	LYS	O-C-N	-5.07	116.75	122.12
1	bY	206	GLY	N-CA-C	5.07	122.67	112.34
1	c3	134	ILE	CA-C-N	5.07	126.94	120.56
1	c3	134	ILE	C-N-CA	5.07	126.94	120.56
1	c3	215	MET	N-CA-C	5.07	119.17	112.89
1	ca	10	MET	O-C-N	-5.07	115.52	122.46
1	ca	84	HIS	CG-CD2-NE2	5.07	112.27	107.20
1	cg	110	THR	N-CA-C	5.07	117.59	110.14
1	cm	71	GLU	O-C-N	-5.07	116.75	122.12
1	cs	78	ALA	N-CA-C	5.07	117.46	111.33
1	cw	21	ASN	CB-CG-ND2	5.07	124.00	116.40
1	1f	113	GLU	CB-CG-CD	-5.07	103.99	112.60
1	cG	136	LEU	N-CA-CB	-5.07	102.67	110.12
1	cJ	179	GLN	N-CA-C	5.07	117.53	111.71
1	cM	154	ARG	CB-CA-C	5.07	118.98	109.86
1	cU	130	TYR	CA-C-N	5.07	127.07	120.28
1	cU	130	TYR	C-N-CA	5.07	127.07	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cU	169	TYR	CA-CB-CG	-5.07	104.78	113.90
1	cZ	95	GLN	N-CA-CB	5.07	119.05	110.49
1	de	7	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	dg	226	HIS	CE1-NE2-CD2	-5.07	103.94	109.00
1	dn	58	THR	N-CA-CB	5.07	118.13	110.28
1	1k	75	GLU	CB-CA-C	5.07	119.20	110.79
1	dy	171	THR	CA-C-N	5.07	127.07	120.28
1	dy	171	THR	C-N-CA	5.07	127.07	120.28
1	dF	169	TYR	CA-C-O	-5.07	115.18	120.55
1	dL	229	ARG	CD-NE-CZ	-5.07	117.31	124.40
1	dO	43	LEU	CD1-CG-CD2	-5.07	99.66	110.80
1	1n	2	ILE	O-C-N	-5.07	117.91	123.18
1	dX	15	ILE	N-CA-C	5.07	116.92	109.63
1	e6	9	GLN	CG-CD-OE1	5.07	130.93	120.80
1	1p	10	MET	CG-SD-CE	-5.07	89.76	100.90
1	ee	209	ALA	CB-CA-C	5.07	118.69	109.62
1	ef	227	LYS	CA-C-N	5.07	131.22	121.54
1	ef	227	LYS	C-N-CA	5.07	131.22	121.54
1	eg	124	ILE	O-C-N	-5.07	115.75	121.57
1	ek	146	SER	N-CA-C	5.07	115.42	109.60
1	1r	64	ALA	O-C-N	-5.07	116.85	122.07
1	eA	171	THR	N-CA-C	5.07	117.70	111.82
1	eG	87	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
1	eN	126	VAL	N-CA-C	5.07	115.28	110.42
1	eS	173	ARG	N-CA-CB	5.07	117.57	110.12
1	eS	203	LYS	CA-C-O	5.07	125.92	120.55
1	eV	215	MET	CA-C-O	5.07	125.79	120.42
1	eZ	154	ARG	CA-C-O	5.07	126.66	120.99
1	f8	51	ASP	O-C-N	-5.07	116.85	122.07
1	f8	143	ARG	NE-CZ-NH1	5.07	126.57	121.50
1	1v	23	TRP	CD2-CE2-CZ2	-5.07	117.33	122.40
1	fb	36	VAL	N-CA-C	5.07	115.84	110.72
1	fb	126	VAL	N-CA-CB	5.07	116.13	110.51
1	fi	179	GLN	OE1-CD-NE2	-5.07	117.53	122.60
1	fq	179	GLN	CA-C-N	5.07	127.48	120.29
1	fq	179	GLN	C-N-CA	5.07	127.48	120.29
1	fq	195	ASN	CA-CB-CG	5.07	117.67	112.60
1	fs	177	ALA	CB-CA-C	5.07	118.09	109.53
1	fz	14	ALA	CA-C-O	5.07	127.08	121.56
1	fF	71	GLU	CA-C-O	5.07	126.10	120.63
1	fO	169	TYR	CD1-CG-CD2	5.07	125.70	118.10
1	fX	222	GLY	CA-C-N	5.07	129.82	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fX	222	GLY	C-N-CA	5.07	129.82	121.87
1	g1	132	ARG	CA-C-O	5.07	125.82	120.10
1	g5	55	MET	CA-C-O	5.07	126.14	120.82
1	k	229	ARG	NE-CZ-NH1	5.07	126.56	121.50
1	l	126	VAL	N-CA-C	5.07	115.28	110.42
1	r	3	VAL	N-CA-CB	-5.07	105.28	111.21
1	u	29	GLU	CA-C-N	5.07	128.01	120.31
1	u	29	GLU	C-N-CA	5.07	128.01	120.31
1	w	149	SER	CA-CB-OG	5.07	121.23	111.10
1	z	221	VAL	O-C-N	-5.07	117.15	122.67
1	N	9	GLN	OE1-CD-NE2	5.07	127.67	122.60
1	4	181	VAL	N-CA-C	-5.07	105.56	110.42
1	P	186	THR	N-CA-CB	5.07	117.36	110.01
1	5	106	GLY	CA-C-N	5.07	127.07	120.28
1	5	106	GLY	C-N-CA	5.07	127.07	120.28
1	5	226	HIS	ND1-CE1-NE2	5.07	113.47	108.40
1	6	138	LEU	CA-C-N	5.07	127.07	120.28
1	6	138	LEU	C-N-CA	5.07	127.07	120.28
1	7	92	GLU	O-C-N	-5.07	114.75	121.64
1	8	21	ASN	CA-C-N	5.07	127.07	120.28
1	8	21	ASN	C-N-CA	5.07	127.07	120.28
1	gp	50	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	gq	99	PRO	CA-C-N	5.06	132.25	122.07
1	gq	99	PRO	C-N-CA	5.06	132.25	122.07
1	gy	191	VAL	CA-C-N	5.06	128.01	120.31
1	gy	191	VAL	C-N-CA	5.06	128.01	120.31
1	gC	188	THR	CA-CB-OG1	5.06	117.20	109.60
1	gJ	84	HIS	CG-CD2-NE2	5.06	112.26	107.20
1	gJ	213	GLU	N-CA-CB	5.06	117.66	110.06
1	gQ	182	LYS	N-CA-C	5.06	116.80	111.28
1	gS	54	THR	CA-CB-CG2	5.06	119.11	110.50
1	hn	10	MET	CG-SD-CE	-5.06	89.76	100.90
1	hn	62	HIS	CA-CB-CG	-5.06	108.74	113.80
1	hM	9	GLN	CB-CA-C	-5.06	100.34	110.42
1	ih	50	GLN	CA-C-O	5.06	125.92	120.55
1	1P	138	LEU	N-CA-CB	5.06	117.56	110.12
1	iR	56	LEU	O-C-N	-5.06	116.85	122.07
1	iW	116	GLY	N-CA-C	-5.06	106.65	112.73
1	1U	68	MET	CA-C-O	5.06	126.10	120.63
1	jj	31	ALA	N-CA-C	5.06	115.50	108.00
1	jv	3	VAL	N-CA-CB	5.06	116.77	111.00
1	jz	21	ASN	N-CA-CB	5.06	117.66	110.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jA	182	LYS	N-CA-C	5.06	116.80	111.28
1	jE	69	LEU	CA-C-N	5.06	127.48	120.29
1	jE	69	LEU	C-N-CA	5.06	127.48	120.29
1	jF	84	HIS	CA-C-N	5.06	126.17	119.84
1	jF	84	HIS	C-N-CA	5.06	126.17	119.84
1	jJ	204	ALA	N-CA-C	5.06	116.80	111.28
1	jO	199	LYS	N-CA-C	5.06	116.80	111.28
1	jZ	109	SER	CA-C-O	-5.06	115.53	121.46
1	kd	171	THR	N-CA-C	-5.06	105.84	111.36
1	kf	19	THR	CA-CB-CG2	5.06	119.11	110.50
1	kD	16	SER	CA-C-O	-5.06	114.99	119.75
1	kK	215	MET	CA-C-N	5.06	130.50	122.60
1	kK	215	MET	C-N-CA	5.06	130.50	122.60
1	kL	38	PRO	CB-CA-C	-5.06	104.95	112.55
1	kQ	25	LYS	N-CA-CB	-5.06	102.68	110.12
1	kS	155	GLN	CA-C-O	5.06	127.08	121.56
1	kY	122	PRO	CA-C-N	5.06	125.00	119.78
1	kY	122	PRO	C-N-CA	5.06	125.00	119.78
1	l4	69	LEU	N-CA-C	5.06	116.80	111.28
1	lh	72	THR	CA-C-N	5.06	127.40	120.46
1	lh	72	THR	C-N-CA	5.06	127.40	120.46
1	lt	172	LEU	N-CA-C	5.06	117.69	111.82
1	lx	140	LYS	N-CA-C	5.06	116.88	111.36
1	lK	44	SER	CA-C-O	5.06	125.75	119.12
1	2h	93	PRO	O-C-N	5.06	129.48	122.64
1	2k	225	GLY	CA-C-N	5.06	127.02	120.44
1	2k	225	GLY	C-N-CA	5.06	127.02	120.44
1	2x	124	ILE	CB-CA-C	5.06	116.67	110.85
1	2R	2	ILE	CA-C-O	-5.06	114.97	120.84
1	3g	164	TYR	N-CA-CB	5.06	117.41	110.07
1	3L	90	PRO	N-CA-CB	5.06	108.57	103.25
1	3U	161	PHE	CA-CB-CG	5.06	118.86	113.80
1	4G	131	LYS	N-CA-C	5.06	116.88	111.36
1	4N	147	PRO	N-CA-CB	5.06	108.37	103.51
1	4R	121	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	4Z	41	SER	O-C-N	-5.06	116.75	122.12
1	5a	74	ASN	N-CA-CB	5.06	117.56	110.12
1	5a	136	LEU	CA-C-O	5.06	125.92	120.55
1	5i	42	ALA	CA-C-N	5.06	127.07	120.28
1	5i	42	ALA	C-N-CA	5.06	127.07	120.28
1	5y	71	GLU	CB-CG-CD	5.06	121.21	112.60
1	5J	178	SER	CA-CB-OG	5.06	121.23	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5R	177	ALA	CA-C-N	5.06	128.89	120.94
1	5R	177	ALA	C-N-CA	5.06	128.89	120.94
1	5Y	5	ASN	CA-C-O	5.06	125.89	119.16
1	6a	76	GLU	CA-C-N	5.06	127.07	120.28
1	6a	76	GLU	C-N-CA	5.06	127.07	120.28
1	6u	24	VAL	CA-C-O	5.06	126.67	121.05
1	6G	120	HIS	CA-CB-CG	5.06	118.86	113.80
1	6J	62	HIS	N-CA-C	5.06	118.38	111.39
1	76	205	LEU	CA-C-N	5.06	129.82	121.87
1	76	205	LEU	C-N-CA	5.06	129.82	121.87
1	7g	12	HIS	CA-CB-CG	-5.06	108.74	113.80
1	7k	203	LYS	CA-C-O	5.06	125.79	120.42
1	7H	168	PHE	N-CA-C	5.06	116.49	111.07
1	7O	196	PRO	N-CA-C	5.06	122.90	112.47
1	7T	210	THR	CA-CB-OG1	5.06	117.19	109.60
1	7Z	68	MET	N-CA-C	5.06	116.80	111.28
1	8L	216	THR	CA-C-N	5.06	130.58	121.06
1	8L	216	THR	C-N-CA	5.06	130.58	121.06
1	8P	10	MET	O-C-N	5.06	128.83	122.55
1	8S	108	THR	N-CA-C	-5.06	105.47	113.02
1	8Y	226	HIS	CA-CB-CG	-5.06	108.74	113.80
1	91	16	SER	O-C-N	-5.06	116.08	121.30
1	97	32	PHE	CA-CB-CG	5.06	118.86	113.80
1	9g	6	LEU	N-CA-C	-5.06	107.05	113.18
1	9h	201	ILE	CB-CA-C	-5.06	105.23	112.22
1	9n	152	ASP	N-CA-C	5.06	117.53	111.71
1	9s	11	VAL	N-CA-CB	5.06	116.77	111.00
1	9x	224	PRO	N-CA-C	5.06	122.90	112.47
1	9E	25	LYS	CA-CB-CG	5.06	124.23	114.10
1	9G	83	LEU	CA-C-O	5.06	125.79	119.97
1	9L	168	PHE	N-CA-C	5.06	116.80	111.28
1	9N	223	GLY	CA-C-O	-5.06	114.28	121.52
1	a1	64	ALA	O-C-N	5.06	127.29	122.07
1	ak	207	PRO	O-C-N	-5.06	115.26	122.35
1	aw	112	GLN	CA-C-O	5.06	125.92	120.55
1	b4	91	ILE	O-C-N	-5.06	117.79	123.26
1	bh	125	PRO	N-CA-CB	-5.06	97.93	103.25
1	19	70	LYS	N-CA-C	5.06	117.46	111.33
1	bI	82	ARG	CA-C-N	5.06	127.07	120.28
1	bI	82	ARG	C-N-CA	5.06	127.07	120.28
1	bT	49	PRO	CB-CA-C	5.06	119.92	111.56
1	cv	166	ASP	CB-CA-C	5.06	119.20	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	102	SER	O-C-N	-5.06	116.04	122.27
1	cJ	86	VAL	CA-C-O	5.06	126.49	120.72
1	cJ	103	ASP	CA-C-N	5.06	126.94	120.56
1	cJ	103	ASP	C-N-CA	5.06	126.94	120.56
1	cN	139	ASN	CA-CB-CG	5.06	117.66	112.60
1	cT	2	ILE	O-C-N	-5.06	117.97	123.14
1	d1	16	SER	CA-C-N	5.06	124.85	119.28
1	d1	16	SER	C-N-CA	5.06	124.85	119.28
1	1j	96	MET	CB-CG-SD	5.06	127.89	112.70
1	dF	5	ASN	CA-CB-CG	-5.06	107.54	112.60
1	ee	83	LEU	N-CA-C	5.06	117.69	111.82
1	ee	106	GLY	N-CA-C	5.06	121.85	115.42
1	eA	182	LYS	CA-C-N	5.06	127.07	120.28
1	eA	182	LYS	C-N-CA	5.06	127.07	120.28
1	1t	74	ASN	N-CA-C	5.06	117.19	111.11
1	eT	36	VAL	N-CA-C	5.06	117.42	111.09
1	eU	57	ASN	N-CA-C	-5.06	107.12	113.15
1	eW	37	ILE	CA-CB-CG1	-5.06	101.79	110.40
1	eX	91	ILE	CA-C-N	5.06	133.38	122.90
1	eX	91	ILE	C-N-CA	5.06	133.38	122.90
1	f1	52	LEU	CA-C-O	-5.06	115.48	120.70
1	f5	111	LEU	N-CA-C	5.06	116.88	111.36
1	1w	133	TRP	CB-CG-CD2	-5.06	119.71	126.80
1	fr	103	ASP	N-CA-CB	5.06	117.56	110.12
1	a	50	GLN	N-CA-C	5.06	117.69	111.82
1	A	183	ASN	CA-C-N	5.06	127.02	120.44
1	A	183	ASN	C-N-CA	5.06	127.02	120.44
1	M	2	ILE	N-CA-C	5.06	116.11	109.58
1	T	221	VAL	CA-CB-CG1	5.06	119.01	110.40
1	8	78	ALA	CA-C-N	5.06	127.48	120.29
1	8	78	ALA	C-N-CA	5.06	127.48	120.29
1	1C	70	LYS	O-C-N	-5.06	116.38	122.15
1	gn	79	GLU	CA-C-N	5.06	127.31	120.38
1	gn	79	GLU	C-N-CA	5.06	127.31	120.38
1	gs	133	TRP	N-CA-C	5.06	116.80	111.28
1	gu	176	GLN	N-CA-C	-5.06	105.48	113.02
1	gw	92	GLU	CA-C-N	5.06	125.35	119.93
1	gw	92	GLU	C-N-CA	5.06	125.35	119.93
1	gC	126	VAL	CA-CB-CG2	5.06	119.00	110.40
1	gE	141	ILE	N-CA-CB	5.06	117.43	110.54
1	gH	97	ARG	NE-CZ-NH2	5.06	123.76	119.20
1	gN	4	GLN	CG-CD-OE1	5.06	130.93	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gR	81	ASP	CA-CB-CG	5.06	117.66	112.60
1	gU	73	ILE	N-CA-C	5.06	115.28	110.42
1	gU	217	ALA	N-CA-CB	-5.06	102.60	110.04
1	gV	39	MET	N-CA-C	5.06	116.80	111.28
1	gW	18	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	h7	114	GLN	CA-C-O	-5.06	115.50	120.82
1	h9	141	ILE	CA-CB-CG2	5.06	119.11	110.50
1	hb	27	VAL	N-CA-C	5.06	115.68	110.36
1	hc	9	GLN	N-CA-C	-5.06	103.71	110.55
1	hc	173	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	hg	195	ASN	CB-CA-C	5.06	117.42	109.27
1	hj	93	PRO	CB-CA-C	-5.06	103.21	111.56
1	ht	61	GLY	CA-C-O	-5.06	117.22	122.28
1	hx	156	GLY	O-C-N	-5.06	116.71	121.77
1	1K	173	ARG	CB-CG-CD	5.06	122.94	111.30
1	hO	146	SER	N-CA-C	5.06	118.60	109.44
1	hP	152	ASP	CA-CB-CG	5.06	117.66	112.60
1	hS	51	ASP	CA-CB-CG	-5.06	107.54	112.60
1	hS	69	LEU	O-C-N	-5.06	116.83	122.09
1	i1	109	SER	CA-C-O	-5.06	114.89	120.36
1	i3	220	GLY	CA-C-O	5.06	124.64	119.02
1	1N	143	ARG	N-CA-CB	5.06	117.35	110.01
1	i7	187	GLU	CA-C-N	5.06	128.81	121.98
1	i7	187	GLU	C-N-CA	5.06	128.81	121.98
1	ia	172	LEU	O-C-N	-5.06	116.75	122.12
1	ib	24	VAL	N-CA-CB	5.06	116.80	110.47
1	ie	92	GLU	O-C-N	-5.06	115.50	121.32
1	iu	226	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	iF	85	PRO	N-CA-CB	5.06	107.75	103.19
1	iP	22	ALA	CA-C-N	5.06	127.02	120.44
1	iP	22	ALA	C-N-CA	5.06	127.02	120.44
1	iP	225	GLY	CA-C-N	5.06	130.13	122.99
1	iP	225	GLY	C-N-CA	5.06	130.13	122.99
1	iS	18	ARG	CA-C-O	-5.06	113.16	119.18
1	jd	18	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	jj	199	LYS	N-CA-CB	-5.06	102.42	110.22
1	jk	6	LEU	CA-C-N	5.06	128.29	121.05
1	jk	6	LEU	C-N-CA	5.06	128.29	121.05
1	1V	162	ARG	CB-CG-CD	5.06	122.94	111.30
1	jr	34	PRO	CA-C-O	-5.06	111.39	120.60
1	js	115	ILE	CA-C-O	-5.06	115.15	120.57
1	ju	29	GLU	CB-CG-CD	5.06	121.21	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jy	19	THR	O-C-N	-5.06	116.75	122.12
1	jz	22	ALA	N-CA-C	5.06	118.61	112.23
1	jA	170	LYS	CB-CG-CD	5.06	122.95	111.30
1	jD	103	ASP	CA-CB-CG	-5.06	107.54	112.60
1	jH	120	HIS	N-CA-C	5.06	117.21	110.53
1	jK	123	PRO	CA-C-N	-5.06	117.86	123.43
1	jK	123	PRO	C-N-CA	-5.06	117.86	123.43
1	jM	208	ALA	CA-C-O	-5.06	113.15	119.38
1	jY	52	LEU	N-CA-CB	5.06	117.35	110.01
1	jZ	199	LYS	N-CA-C	5.06	119.17	112.89
1	1Z	44	SER	CA-C-O	5.06	125.48	119.56
1	k1	176	GLN	CB-CG-CD	5.06	121.20	112.60
1	k1	221	VAL	N-CA-CB	5.06	117.05	110.57
1	kc	55	MET	CG-SD-CE	-5.06	89.76	100.90
1	ko	212	GLU	O-C-N	-5.06	116.75	122.12
1	kq	219	GLN	CG-CD-NE2	5.06	124.00	116.40
1	ku	212	GLU	N-CA-C	5.06	117.19	111.11
1	kv	160	PRO	N-CA-CB	5.06	108.56	103.25
1	kv	188	THR	N-CA-CB	5.06	118.17	110.42
1	ky	186	THR	O-C-N	-5.06	114.84	122.28
1	kz	9	GLN	O-C-N	-5.06	117.95	123.52
1	kz	49	PRO	O-C-N	5.06	128.75	122.22
1	kR	209	ALA	N-CA-C	5.06	116.52	108.67
1	l1	164	TYR	N-CA-C	5.06	116.80	111.28
1	l4	62	HIS	N-CA-C	-5.06	105.14	111.92
1	la	173	ARG	N-CA-CB	-5.06	102.68	110.12
1	lg	190	LEU	N-CA-C	5.06	117.46	111.33
1	lr	22	ALA	CB-CA-C	-5.06	100.95	110.67
1	ls	112	GLN	CA-C-N	5.06	127.48	120.29
1	ls	112	GLN	C-N-CA	5.06	127.48	120.29
1	lt	102	SER	O-C-N	-5.06	116.38	122.15
1	29	158	LYS	N-CA-C	-5.06	106.69	112.92
1	lD	84	HIS	CA-C-N	5.06	125.30	119.83
1	lD	84	HIS	C-N-CA	5.06	125.30	119.83
1	lM	122	PRO	N-CD-CG	5.06	109.88	103.80
1	lN	214	MET	N-CA-C	5.06	117.69	111.82
1	2c	10	MET	CA-C-N	5.06	130.48	122.33
1	2c	10	MET	C-N-CA	5.06	130.48	122.33
1	2f	25	LYS	N-CA-CB	5.06	118.09	110.30
1	2f	186	THR	CA-CB-CG2	5.06	119.11	110.50
1	2f	217	ALA	N-CA-C	5.06	117.57	110.23
1	2j	9	GLN	O-C-N	-5.06	117.28	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2j	11	VAL	O-C-N	-5.06	117.42	123.04
1	2j	58	THR	CA-CB-OG1	5.06	117.19	109.60
1	2j	203	LYS	CA-C-N	5.06	127.06	120.28
1	2j	203	LYS	C-N-CA	5.06	127.06	120.28
1	2n	18	ARG	N-CA-C	5.06	116.80	111.28
1	2n	126	VAL	CA-C-N	5.06	125.56	119.94
1	2n	126	VAL	C-N-CA	5.06	125.56	119.94
1	2p	121	ASN	N-CA-CB	5.06	117.69	109.90
1	2v	147	PRO	N-CA-CB	5.06	108.30	102.33
1	2C	104	ILE	CB-CA-C	-5.06	105.31	112.14
1	2F	41	SER	O-C-N	-5.06	116.75	122.12
1	2F	92	GLU	CB-CA-C	5.06	116.36	108.61
1	2F	230	VAL	O-C-N	-5.06	116.24	122.57
1	2T	164	TYR	CB-CA-C	5.06	118.91	110.81
1	3g	94	GLY	CA-C-O	5.06	124.43	119.37
1	3l	169	TYR	CA-C-N	5.06	127.02	120.44
1	3l	169	TYR	C-N-CA	5.06	127.02	120.44
1	3y	147	PRO	O-C-N	-5.06	115.80	122.64
1	3A	37	ILE	CA-C-N	5.06	124.37	118.85
1	3A	37	ILE	C-N-CA	5.06	124.37	118.85
1	3F	218	CYS	N-CA-C	-5.06	107.05	113.23
1	3Q	229	ARG	N-CA-CB	5.06	118.04	110.19
1	3S	169	TYR	O-C-N	-5.06	116.04	122.27
1	41	135	ILE	N-CA-C	5.06	115.78	110.62
1	4d	58	THR	CA-C-N	5.06	127.95	120.91
1	4d	58	THR	C-N-CA	5.06	127.95	120.91
1	4d	97	ARG	CA-C-N	5.06	128.65	121.61
1	4d	97	ARG	C-N-CA	5.06	128.65	121.61
1	4E	135	ILE	O-C-N	-5.06	116.95	121.91
1	4K	13	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	4L	33	SER	CA-C-N	5.06	126.17	119.84
1	4L	33	SER	C-N-CA	5.06	126.17	119.84
1	4O	218	CYS	N-CA-CB	5.06	119.05	110.49
1	52	87	HIS	N-CA-C	5.06	117.38	110.24
1	54	127	GLY	CA-C-O	5.06	125.87	120.30
1	5c	74	ASN	N-CA-C	5.06	116.80	111.28
1	5e	130	TYR	CA-C-O	-5.06	115.50	120.82
1	5o	209	ALA	N-CA-C	5.06	121.58	110.80
1	5p	143	ARG	CA-C-N	5.06	127.02	120.44
1	5p	143	ARG	C-N-CA	5.06	127.02	120.44
1	5q	132	ARG	N-CA-C	5.06	116.80	111.28
1	5A	202	LEU	O-C-N	-5.06	116.75	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5C	119	THR	CA-CB-OG1	5.06	117.19	109.60
1	5E	25	LYS	O-C-N	-5.06	116.75	122.12
1	5S	206	GLY	O-C-N	-5.06	116.71	121.77
1	64	121	ASN	CB-CG-ND2	5.06	123.99	116.40
1	64	208	ALA	CB-CA-C	5.06	118.51	111.63
1	6e	20	LEU	N-CA-CB	5.06	117.30	109.91
1	6s	143	ARG	N-CA-C	5.06	116.80	111.28
1	6w	45	GLU	CB-CA-C	5.06	117.43	109.84
1	6H	224	PRO	CA-C-O	-5.06	115.57	121.34
1	6J	71	GLU	CA-C-O	5.06	125.79	119.97
1	6J	113	GLU	CA-C-O	-5.06	115.06	120.42
1	6P	54	THR	O-C-N	5.06	127.49	122.12
1	70	221	VAL	N-CA-C	5.06	115.14	107.80
1	7f	15	ILE	N-CA-C	5.06	119.87	109.34
1	7f	96	MET	N-CA-CB	-5.06	104.21	111.70
1	7g	98	GLU	O-C-N	-5.06	117.01	121.31
1	7g	164	TYR	CA-C-O	5.06	125.92	120.70
1	7h	227	LYS	N-CA-C	5.06	117.44	110.35
1	7k	39	MET	O-C-N	-5.06	116.62	122.09
1	7m	7	GLN	CA-C-O	5.06	125.27	119.35
1	7m	143	ARG	N-CA-C	5.06	116.80	111.28
1	7o	144	MET	CA-C-O	5.06	125.79	119.97
1	7D	134	ILE	N-CA-CB	5.06	115.94	110.62
1	7T	170	LYS	N-CA-CB	5.06	117.56	110.12
1	7V	91	ILE	O-C-N	-5.06	116.24	122.57
1	7V	201	ILE	N-CA-C	5.06	115.83	110.72
1	7X	226	HIS	CA-CB-CG	5.06	118.86	113.80
1	83	36	VAL	N-CA-C	5.06	117.42	111.09
1	85	194	ALA	O-C-N	-5.06	115.86	122.59
1	88	170	LYS	CA-C-N	5.06	127.06	120.28
1	88	170	LYS	C-N-CA	5.06	127.06	120.28
1	8c	11	VAL	CA-CB-CG1	5.06	119.01	110.40
1	8c	57	ASN	CA-CB-CG	-5.06	107.54	112.60
1	8f	28	GLU	N-CA-C	5.06	116.80	111.28
1	8k	182	LYS	O-C-N	-5.06	116.75	122.12
1	8l	36	VAL	O-C-N	-5.06	116.08	121.80
1	8n	208	ALA	N-CA-CB	5.06	118.09	110.65
1	8p	99	PRO	CB-CA-C	-5.06	103.21	111.56
1	8p	115	ILE	N-CA-C	5.06	115.78	110.62
1	8C	104	ILE	CA-C-N	5.06	128.70	120.60
1	8C	104	ILE	C-N-CA	5.06	128.70	120.60
1	8D	68	MET	O-C-N	5.06	127.49	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8G	131	LYS	CA-C-O	5.06	125.79	120.42
1	8J	222	GLY	CA-C-O	-5.06	117.09	122.76
1	8M	6	LEU	CA-C-N	5.06	127.90	120.71
1	8M	6	LEU	C-N-CA	5.06	127.90	120.71
1	95	216	THR	CA-C-O	5.06	125.79	119.97
1	98	65	ALA	O-C-N	-5.06	116.75	122.12
1	9d	228	ALA	CA-C-O	5.06	125.79	119.97
1	9o	12	HIS	CB-CG-ND1	5.06	130.29	122.70
1	9o	134	ILE	N-CA-C	5.06	116.39	110.62
1	9D	111	LEU	CA-C-O	5.06	125.79	119.97
1	9O	98	GLU	CA-C-N	5.06	125.06	119.90
1	9O	98	GLU	C-N-CA	5.06	125.06	119.90
1	9O	196	PRO	CA-N-CD	-5.06	104.91	112.00
1	9R	75	GLU	CA-C-O	5.06	126.14	120.82
1	9T	130	TYR	O-C-N	-5.06	116.62	122.09
1	9T	160	PRO	N-CA-C	5.06	122.90	112.47
1	9Y	48	THR	N-CA-CB	5.06	116.88	110.04
1	10	62	HIS	CG-ND1-CE1	-5.06	100.69	109.30
1	ab	197	ASP	CA-C-N	5.06	127.02	120.44
1	ab	197	ASP	C-N-CA	5.06	127.02	120.44
1	ac	182	LYS	O-C-N	-5.06	116.75	122.12
1	ae	186	THR	N-CA-C	5.06	118.56	112.38
1	ai	165	VAL	CA-C-N	5.06	129.24	121.19
1	ai	165	VAL	C-N-CA	5.06	129.24	121.19
1	an	137	GLY	O-C-N	-5.06	116.52	122.34
1	ap	187	GLU	CB-CG-CD	5.06	121.21	112.60
1	at	55	MET	N-CA-CB	5.06	117.48	109.94
1	12	196	PRO	N-CA-CB	5.06	108.89	103.52
1	au	12	HIS	CA-CB-CG	5.06	118.86	113.80
1	az	39	MET	O-C-N	-5.06	116.62	122.09
1	aD	181	VAL	CA-CB-CG2	-5.06	101.80	110.40
1	aM	143	ARG	O-C-N	-5.06	116.86	122.07
1	aN	20	LEU	O-C-N	5.06	127.48	122.12
1	aQ	26	VAL	CA-C-O	-5.06	115.48	120.85
1	aY	85	PRO	CA-C-N	5.06	128.89	121.80
1	aY	85	PRO	C-N-CA	5.06	128.89	121.80
1	b2	48	THR	OG1-CB-CG2	-5.06	99.18	109.30
1	b5	130	TYR	CB-CA-C	5.06	118.83	110.88
1	ba	125	PRO	CA-C-N	5.06	128.47	120.47
1	ba	125	PRO	C-N-CA	5.06	128.47	120.47
1	17	51	ASP	N-CA-C	5.06	116.80	111.28
1	19	4	GLN	N-CA-C	5.06	117.68	110.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	19	80	TRP	O-C-N	5.06	127.36	122.09
1	bJ	173	ARG	CD-NE-CZ	-5.06	117.31	124.40
1	bM	229	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	bY	165	VAL	CA-CB-CG1	5.06	119.01	110.40
1	bY	169	TYR	CA-C-N	5.06	127.06	120.28
1	bY	169	TYR	C-N-CA	5.06	127.06	120.28
1	c1	226	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	c3	165	VAL	O-C-N	5.06	126.78	121.87
1	c5	40	PHE	O-C-N	5.06	127.28	122.07
1	c7	127	GLY	CA-C-N	5.06	127.06	120.28
1	c7	127	GLY	C-N-CA	5.06	127.06	120.28
1	c7	174	ALA	O-C-N	-5.06	116.38	122.15
1	ca	79	GLU	CA-C-O	5.06	125.92	120.55
1	ca	197	ASP	CA-CB-CG	5.06	117.66	112.60
1	ce	105	ALA	N-CA-C	5.06	117.53	111.71
1	cj	23	TRP	N-CA-C	5.06	116.49	110.97
1	1e	4	GLN	CA-C-O	5.06	126.01	120.95
1	cx	224	PRO	CB-CA-C	-5.06	104.29	111.68
1	cK	26	VAL	N-CA-C	5.06	115.28	110.42
1	cK	35	GLU	CA-C-N	5.06	127.67	120.53
1	cK	35	GLU	C-N-CA	5.06	127.67	120.53
1	cT	216	THR	CA-CB-CG2	-5.06	101.89	110.50
1	cT	218	CYS	N-CA-CB	5.06	119.05	110.49
1	cX	156	GLY	O-C-N	-5.06	116.71	121.77
1	1i	221	VAL	CA-C-O	5.06	126.13	119.85
1	d7	168	PHE	CA-CB-CG	-5.06	108.74	113.80
1	dh	33	SER	O-C-N	-5.06	116.86	122.17
1	dj	183	ASN	CA-C-N	5.06	127.48	120.29
1	dj	183	ASN	C-N-CA	5.06	127.48	120.29
1	dD	89	GLY	CA-C-N	5.06	125.35	119.93
1	dD	89	GLY	C-N-CA	5.06	125.35	119.93
1	dF	223	GLY	CA-C-O	-5.06	114.28	121.52
1	dL	54	THR	CA-C-O	-5.06	115.18	120.55
1	dP	12	HIS	N-CA-C	5.06	118.20	110.20
1	dQ	229	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	dR	57	ASN	CA-C-O	-5.06	113.82	119.79
1	dS	133	TRP	N-CA-C	5.06	116.49	111.07
1	dT	139	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	dW	169	TYR	CA-C-N	5.06	127.31	120.38
1	dW	169	TYR	C-N-CA	5.06	127.31	120.38
1	dW	206	GLY	CA-C-N	5.06	126.17	119.84
1	dW	206	GLY	C-N-CA	5.06	126.17	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e0	129	ILE	O-C-N	-5.06	116.63	121.90
1	e1	226	HIS	CA-CB-CG	-5.06	108.74	113.80
1	e6	157	PRO	CA-C-N	5.06	130.59	122.14
1	e6	157	PRO	C-N-CA	5.06	130.59	122.14
1	e7	106	GLY	CA-C-N	5.06	127.06	120.28
1	e7	106	GLY	C-N-CA	5.06	127.06	120.28
1	eb	5	ASN	CA-C-O	5.06	126.93	121.06
1	1p	115	ILE	N-CA-C	5.06	115.67	110.36
1	eo	151	LEU	N-CA-CB	-5.06	101.99	110.39
1	et	11	VAL	CA-CB-CG1	5.06	119.01	110.40
1	eu	206	GLY	CA-C-N	5.06	126.17	119.84
1	eu	206	GLY	C-N-CA	5.06	126.17	119.84
1	ev	66	MET	N-CA-C	5.06	116.80	111.28
1	1s	98	GLU	O-C-N	-5.06	115.76	121.43
1	eI	226	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	eP	228	ALA	CA-C-O	5.06	125.49	119.67
1	eQ	48	THR	CA-CB-OG1	5.06	117.19	109.60
1	eT	92	GLU	CA-C-N	5.06	125.85	119.98
1	eT	92	GLU	C-N-CA	5.06	125.85	119.98
1	f3	39	MET	CA-C-O	5.06	125.92	120.55
1	f5	132	ARG	NE-CZ-NH2	-5.06	114.64	119.20
1	f6	33	SER	O-C-N	-5.06	116.09	121.30
1	fa	90	PRO	N-CA-C	5.06	122.90	112.47
1	fc	216	THR	N-CA-C	5.06	119.09	113.02
1	fe	199	LYS	CA-C-N	5.06	127.06	120.28
1	fe	199	LYS	C-N-CA	5.06	127.06	120.28
1	ff	28	GLU	O-C-N	-5.06	116.86	122.07
1	fh	1	PRO	CA-N-CD	-5.06	104.91	112.00
1	fh	173	ARG	NE-CZ-NH2	-5.06	114.64	119.20
1	fr	133	TRP	N-CA-C	5.06	116.49	111.07
1	fs	48	THR	N-CA-CB	5.06	115.61	109.74
1	fx	68	MET	CA-C-O	5.06	125.61	119.38
1	fI	167	ARG	NE-CZ-NH2	-5.06	114.64	119.20
1	fM	195	ASN	CA-C-N	5.06	125.09	119.32
1	fM	195	ASN	C-N-CA	5.06	125.09	119.32
1	fN	211	LEU	O-C-N	-5.06	116.75	122.12
1	fP	73	ILE	CA-C-N	5.06	127.02	120.44
1	fP	73	ILE	C-N-CA	5.06	127.02	120.44
1	fV	49	PRO	CB-CA-C	5.06	119.91	111.56
1	fW	102	SER	CA-C-N	5.06	127.02	120.44
1	fW	102	SER	C-N-CA	5.06	127.02	120.44
1	fY	152	ASP	CA-C-O	-5.06	113.16	119.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g1	117	TRP	O-C-N	-5.06	116.62	122.09
1	g6	121	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	b	101	GLY	CA-C-N	5.06	127.48	120.29
1	b	101	GLY	C-N-CA	5.06	127.48	120.29
1	h	7	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	h	98	GLU	CA-C-N	5.06	125.30	119.83
1	h	98	GLU	C-N-CA	5.06	125.30	119.83
1	h	146	SER	CA-C-O	-5.06	114.97	120.69
1	i	202	LEU	N-CA-C	5.06	116.49	111.07
1	1	58	THR	N-CA-CB	5.06	118.41	110.46
1	u	201	ILE	N-CA-C	5.06	115.83	110.72
1	B	148	THR	CA-C-O	5.06	126.70	121.28
1	X	92	GLU	O-C-N	-5.06	118.28	121.88
1	gk	33	SER	CA-C-N	5.06	126.17	119.84
1	gk	33	SER	C-N-CA	5.06	126.17	119.84
1	gF	103	ASP	O-C-N	5.06	127.28	122.07
1	gG	159	GLU	N-CA-C	5.06	120.99	109.81
1	1K	86	VAL	CA-C-O	5.06	125.72	120.36
1	hQ	170	LYS	CA-C-N	5.06	127.02	120.44
1	hQ	170	LYS	C-N-CA	5.06	127.02	120.44
1	hT	40	PHE	CA-CB-CG	-5.06	108.74	113.80
1	i1	76	GLU	CA-C-O	-5.06	115.19	120.55
1	i9	120	HIS	O-C-N	-5.06	117.27	122.94
1	iD	164	TYR	O-C-N	-5.06	116.75	122.12
1	iH	68	MET	CG-SD-CE	-5.06	89.77	100.90
1	iM	218	CYS	CA-C-O	5.06	127.30	121.28
1	iO	162	ARG	CG-CD-NE	-5.06	100.87	112.00
1	iZ	90	PRO	N-CA-CB	-5.06	97.94	103.25
1	jl	180	GLU	N-CA-CB	-5.06	102.68	110.12
1	jp	176	GLN	N-CA-C	5.06	117.50	109.96
1	jt	40	PHE	CA-C-N	5.06	127.48	120.29
1	jt	40	PHE	C-N-CA	5.06	127.48	120.29
1	jB	16	SER	CA-C-N	5.06	124.67	119.05
1	jB	16	SER	C-N-CA	5.06	124.67	119.05
1	ke	74	ASN	CA-C-N	5.06	127.06	120.28
1	ke	74	ASN	C-N-CA	5.06	127.06	120.28
1	kj	62	HIS	O-C-N	-5.06	115.63	122.41
1	ky	131	LYS	CA-C-O	5.06	125.91	120.55
1	23	215	MET	N-CA-C	5.06	116.80	111.28
1	kH	213	GLU	N-CA-C	5.06	117.69	111.82
1	kO	122	PRO	CA-C-N	5.06	125.06	119.90
1	kO	122	PRO	C-N-CA	5.06	125.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l0	154	ARG	CA-C-N	5.06	127.96	120.82
1	l0	154	ARG	C-N-CA	5.06	127.96	120.82
1	l3	145	TYR	CA-CB-CG	-5.06	104.79	113.90
1	l4	154	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	lt	176	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	2e	127	GLY	CA-C-N	5.06	127.32	120.44
1	2e	127	GLY	C-N-CA	5.06	127.32	120.44
1	2e	150	ILE	CA-C-O	-5.06	115.69	120.95
1	2w	51	ASP	O-C-N	-5.06	116.86	122.07
1	2B	111	LEU	CB-CA-C	5.06	119.19	110.79
1	32	4	GLN	O-C-N	-5.06	116.72	122.89
1	3a	22	ALA	N-CA-C	5.06	117.18	111.11
1	3b	149	SER	N-CA-C	5.06	117.23	110.35
1	3n	158	LYS	CA-C-N	5.06	127.53	120.65
1	3n	158	LYS	C-N-CA	5.06	127.53	120.65
1	3r	61	GLY	N-CA-C	5.06	117.90	112.33
1	3A	187	GLU	N-CA-CB	-5.06	103.21	110.65
1	3W	149	SER	O-C-N	-5.06	115.86	122.59
1	3X	18	ARG	CA-C-N	5.06	127.02	120.44
1	3X	18	ARG	C-N-CA	5.06	127.02	120.44
1	47	35	GLU	N-CA-CB	5.06	118.65	110.40
1	48	80	TRP	N-CA-CB	5.06	117.56	110.12
1	4n	18	ARG	CB-CA-C	5.06	119.19	110.79
1	4E	136	LEU	O-C-N	-5.06	116.76	122.12
1	4G	12	HIS	CG-CD2-NE2	5.06	112.26	107.20
1	4J	18	ARG	O-C-N	-5.06	116.86	122.07
1	4Z	62	HIS	CA-C-O	5.06	127.57	121.65
1	5f	202	LEU	CA-C-O	-5.06	115.19	120.55
1	5j	64	ALA	CA-C-O	5.06	125.91	120.70
1	5x	69	LEU	CA-C-N	5.06	127.06	120.28
1	5x	69	LEU	C-N-CA	5.06	127.06	120.28
1	5I	24	VAL	CA-CB-CG2	-5.06	101.80	110.40
1	5P	14	ALA	CA-C-N	5.06	127.28	120.50
1	5P	14	ALA	C-N-CA	5.06	127.28	120.50
1	61	205	LEU	N-CA-C	-5.06	106.37	112.54
1	61	214	MET	N-CA-CB	5.06	117.56	110.12
1	66	198	CYS	CA-C-N	5.06	128.00	120.31
1	66	198	CYS	C-N-CA	5.06	128.00	120.31
1	68	186	THR	N-CA-C	5.06	116.88	111.36
1	6A	191	VAL	CA-C-O	5.06	126.53	121.17
1	6S	48	THR	O-C-N	-5.06	113.93	121.12
1	6S	154	ARG	NH1-CZ-NH2	-5.06	112.72	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	71	100	ARG	O-C-N	-5.06	115.92	122.20
1	76	9	GLN	O-C-N	-5.06	116.67	122.95
1	79	126	VAL	CA-C-O	5.06	126.53	121.17
1	7h	3	VAL	O-C-N	-5.06	116.28	122.61
1	7E	17	PRO	O-C-N	5.06	129.47	122.64
1	7J	84	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	7M	171	THR	CA-C-O	5.06	126.13	120.82
1	7R	224	PRO	N-CA-C	5.06	119.16	111.11
1	7S	226	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	81	22	ALA	CA-C-N	5.06	127.06	120.28
1	81	22	ALA	C-N-CA	5.06	127.06	120.28
1	8e	85	PRO	O-C-N	-5.06	116.56	122.99
1	8e	146	SER	CA-C-O	-5.06	114.99	119.75
1	8h	169	TYR	CA-C-O	-5.06	115.06	120.42
1	8D	16	SER	N-CA-C	-5.06	103.33	110.31
1	8E	66	MET	N-CA-C	5.06	117.69	111.82
1	8E	187	GLU	CB-CG-CD	-5.06	104.00	112.60
1	8X	97	ARG	O-C-N	-5.06	116.64	122.87
1	98	77	ALA	N-CA-CB	-5.06	102.44	110.28
1	98	184	TRP	CB-CG-CD2	-5.06	119.71	126.80
1	9c	85	PRO	CA-C-O	-5.06	114.67	122.57
1	9j	121	ASN	CB-CA-C	-5.06	104.33	110.15
1	9k	185	MET	CG-SD-CE	-5.06	89.77	100.90
1	9l	133	TRP	CA-C-O	5.06	125.82	120.10
1	9q	7	GLN	O-C-N	-5.06	116.01	122.34
1	9K	53	ASN	CB-CA-C	5.06	119.19	110.79
1	9L	68	MET	CG-SD-CE	-5.06	89.77	100.90
1	9T	161	PHE	N-CA-C	5.06	117.33	108.52
1	Z	228	ALA	O-C-N	-5.06	115.86	122.59
1	a0	44	SER	CB-CA-C	-5.06	99.88	109.95
1	ae	62	HIS	ND1-CG-CD2	5.06	111.16	106.10
1	ao	25	LYS	N-CA-C	5.06	116.88	111.36
1	ap	194	ALA	O-C-N	-5.06	116.58	122.81
1	ay	222	GLY	O-C-N	5.06	128.05	122.84
1	14	229	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	aQ	22	ALA	CA-C-O	-5.06	115.06	120.42
1	aZ	187	GLU	CA-C-N	5.06	131.21	121.54
1	aZ	187	GLU	C-N-CA	5.06	131.21	121.54
1	bj	168	PHE	O-C-N	-5.06	116.62	122.09
1	by	144	MET	N-CA-CB	5.06	117.56	110.12
1	bK	106	GLY	O-C-N	-5.06	116.88	122.50
1	bS	86	VAL	N-CA-CB	5.06	116.05	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bV	164	TYR	O-C-N	-5.06	116.86	122.07
1	ce	104	ILE	CA-C-N	5.06	127.57	120.28
1	ce	104	ILE	C-N-CA	5.06	127.57	120.28
1	cx	87	HIS	CB-CA-C	-5.06	100.86	109.51
1	cz	132	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	cD	25	LYS	N-CA-CB	5.06	117.65	110.16
1	cI	103	ASP	O-C-N	-5.06	116.86	122.07
1	1g	80	TRP	CB-CG-CD1	-5.06	119.31	126.90
1	cL	67	GLN	CA-C-O	-5.06	115.19	120.55
1	cL	149	SER	CA-C-O	-5.06	114.86	120.38
1	cP	52	LEU	N-CA-CB	5.06	118.09	110.30
1	cT	13	GLN	CG-CD-NE2	5.06	123.99	116.40
1	d2	179	GLN	CA-C-O	5.06	125.92	120.55
1	dq	62	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	1m	195	ASN	CB-CG-OD1	5.06	130.92	120.80
1	dJ	39	MET	CA-C-N	5.06	127.02	120.44
1	dJ	39	MET	C-N-CA	5.06	127.02	120.44
1	dZ	110	THR	CA-C-N	5.06	127.31	120.38
1	dZ	110	THR	C-N-CA	5.06	127.31	120.38
1	e1	25	LYS	N-CA-CB	-5.06	102.68	110.12
1	e2	46	GLY	O-C-N	-5.06	116.94	122.41
1	1p	148	THR	CA-CB-OG1	5.06	117.19	109.60
1	ed	220	GLY	O-C-N	-5.06	117.28	122.19
1	ex	79	GLU	O-C-N	-5.06	116.30	122.22
1	ex	190	LEU	N-CA-C	5.06	116.80	111.28
1	eU	181	VAL	CB-CA-C	-5.06	105.49	111.97
1	f0	134	ILE	CB-CA-C	-5.06	105.31	112.14
1	f2	33	SER	O-C-N	-5.06	117.11	121.71
1	f2	215	MET	N-CA-C	5.06	119.08	113.01
1	1v	15	ILE	N-CA-CB	5.06	116.91	110.13
1	fb	7	GLN	CG-CD-OE1	5.06	130.92	120.80
1	fn	152	ASP	CB-CA-C	5.06	118.54	110.09
1	fL	146	SER	CB-CA-C	5.06	117.42	109.27
1	fP	41	SER	CA-C-O	-5.06	115.69	121.00
1	fP	179	GLN	O-C-N	-5.06	116.75	122.12
1	g0	120	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	D	66	MET	CG-SD-CE	-5.06	89.77	100.90
1	L	169	TYR	O-C-N	-5.06	116.05	122.27
1	M	132	ARG	CA-C-O	5.06	125.78	120.42
1	6	28	GLU	O-C-N	-5.06	115.65	122.23
1	6	197	ASP	CA-CB-CG	-5.06	107.54	112.60
1	gb	104	ILE	N-CA-C	5.06	115.78	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gi	10	MET	N-CA-C	5.06	117.77	110.28
1	gp	52	LEU	CA-C-O	-5.06	115.06	120.42
1	gp	193	ASN	CA-C-N	5.06	128.39	120.75
1	gp	193	ASN	C-N-CA	5.06	128.39	120.75
1	gv	150	ILE	O-C-N	-5.06	115.14	122.12
1	gx	157	PRO	CB-CA-C	5.06	120.14	112.55
1	gy	21	ASN	CA-CB-CG	-5.06	107.54	112.60
1	gy	219	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	gD	132	ARG	NE-CZ-NH2	-5.06	114.65	119.20
1	gF	115	ILE	CA-C-O	-5.06	115.81	121.17
1	gH	212	GLU	N-CA-CB	5.06	117.65	110.06
1	gL	59	VAL	CB-CA-C	-5.06	102.99	111.29
1	gP	97	ARG	CG-CD-NE	-5.06	100.87	112.00
1	1H	102	SER	CA-C-O	5.06	125.79	119.97
1	hc	28	GLU	N-CA-CB	5.06	117.41	110.07
1	hq	177	ALA	CA-C-N	5.06	128.03	120.90
1	hq	177	ALA	C-N-CA	5.06	128.03	120.90
1	ht	197	ASP	CA-C-O	5.06	125.91	120.70
1	1K	132	ARG	CB-CA-C	-5.06	100.96	110.67
1	hC	22	ALA	CA-C-N	5.06	127.06	120.28
1	hC	22	ALA	C-N-CA	5.06	127.06	120.28
1	hI	75	GLU	O-C-N	-5.06	116.86	122.07
1	hR	107	THR	N-CA-C	-5.06	107.06	113.43
1	i0	103	ASP	CA-CB-CG	-5.06	107.54	112.60
1	i0	217	ALA	CA-C-N	-5.06	116.14	123.93
1	i0	217	ALA	C-N-CA	-5.06	116.14	123.93
1	1N	154	ARG	CA-C-N	5.06	127.95	120.82
1	1N	154	ARG	C-N-CA	5.06	127.95	120.82
1	i6	218	CYS	CA-C-O	5.06	127.74	120.51
1	ia	50	GLN	CA-C-N	5.06	127.02	120.44
1	ia	50	GLN	C-N-CA	5.06	127.02	120.44
1	ip	15	ILE	CB-CA-C	5.06	119.59	111.29
1	is	114	GLN	CA-C-N	5.06	127.39	120.46
1	is	114	GLN	C-N-CA	5.06	127.39	120.46
1	iE	27	VAL	CA-CB-CG2	-5.06	101.80	110.40
1	iE	109	SER	N-CA-C	-5.06	100.10	108.75
1	iE	126	VAL	CA-CB-CG1	5.06	119.00	110.40
1	iZ	229	ARG	CG-CD-NE	-5.06	100.87	112.00
1	1T	63	GLN	CA-C-O	5.06	126.13	120.82
1	1T	81	ASP	CA-C-N	5.06	127.47	120.29
1	1T	81	ASP	C-N-CA	5.06	127.47	120.29
1	j9	12	HIS	N-CA-CB	5.06	118.67	110.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jc	32	PHE	CA-CB-CG	-5.06	108.74	113.80
1	jh	188	THR	N-CA-C	-5.06	100.03	110.80
1	jm	120	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	jp	227	LYS	CA-C-N	5.06	128.06	120.87
1	jp	227	LYS	C-N-CA	5.06	128.06	120.87
1	jr	50	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	jy	114	GLN	O-C-N	-5.06	116.86	122.07
1	jy	197	ASP	CA-CB-CG	5.06	117.66	112.60
1	jC	29	GLU	N-CA-C	5.06	119.48	112.45
1	jO	175	GLU	CA-C-N	5.06	130.49	122.60
1	jO	175	GLU	C-N-CA	5.06	130.49	122.60
1	jV	132	ARG	N-CA-C	5.06	116.80	111.28
1	jY	37	ILE	CA-C-O	-5.06	115.30	118.69
1	1Z	2	ILE	CA-C-N	5.06	129.77	123.14
1	1Z	2	ILE	C-N-CA	5.06	129.77	123.14
1	k0	58	THR	CA-C-O	5.06	125.79	119.97
1	k9	176	GLN	N-CA-C	5.06	118.58	111.90
1	kc	157	PRO	CA-C-N	5.06	130.89	122.54
1	kc	157	PRO	C-N-CA	5.06	130.89	122.54
1	kk	215	MET	N-CA-CB	-5.06	101.52	110.42
1	kq	228	ALA	O-C-N	-5.06	116.68	122.95
1	kv	73	ILE	CA-C-N	5.06	127.02	120.44
1	kv	73	ILE	C-N-CA	5.06	127.02	120.44
1	kB	117	TRP	N-CA-C	5.06	116.80	111.28
1	kB	143	ARG	CA-C-N	5.06	127.47	120.29
1	kB	143	ARG	C-N-CA	5.06	127.47	120.29
1	kC	223	GLY	O-C-N	-5.06	116.71	121.77
1	kN	93	PRO	O-C-N	-5.06	117.03	123.10
1	kN	130	TYR	CA-C-N	5.06	127.06	120.28
1	kN	130	TYR	C-N-CA	5.06	127.06	120.28
1	kQ	198	CYS	N-CA-C	5.06	116.48	111.07
1	kR	48	THR	CA-CB-OG1	5.06	117.19	109.60
1	kU	85	PRO	N-CA-C	5.06	119.15	111.11
1	kW	159	GLU	CA-C-O	-5.06	115.26	119.76
1	l0	225	GLY	O-C-N	-5.06	117.34	122.60
1	l2	108	THR	CA-CB-CG2	-5.06	101.90	110.50
1	l7	170	LYS	N-CA-C	5.06	116.48	111.07
1	le	173	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	lh	167	ARG	N-CA-C	5.06	117.53	111.71
1	li	112	GLN	N-CA-CB	5.06	118.79	110.39
1	lo	200	THR	CA-C-N	5.06	126.93	120.56
1	lo	200	THR	C-N-CA	5.06	126.93	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lr	224	PRO	CA-C-O	-5.06	115.64	121.36
1	lt	19	THR	N-CA-C	5.06	116.48	111.07
1	lz	70	LYS	CB-CA-C	5.06	118.90	110.81
1	lz	200	THR	CA-C-N	5.06	126.94	120.56
1	lz	200	THR	C-N-CA	5.06	126.94	120.56
1	lD	1	PRO	CB-CA-C	5.06	119.72	110.10
1	lF	14	ALA	O-C-N	-5.06	116.48	122.65
1	lH	98	GLU	N-CA-CB	5.06	119.38	110.37
1	2a	85	PRO	CA-C-N	5.06	127.36	120.63
1	2a	85	PRO	C-N-CA	5.06	127.36	120.63
1	lN	68	MET	N-CA-C	5.06	116.48	111.07
1	lQ	61	GLY	CA-C-N	5.06	129.32	122.19
1	lQ	61	GLY	C-N-CA	5.06	129.32	122.19
1	lR	62	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	2q	141	ILE	N-CA-C	5.06	115.78	110.62
1	2A	165	VAL	N-CA-C	-5.06	105.47	112.50
1	2J	15	ILE	N-CA-C	5.06	115.93	109.30
1	2N	9	GLN	O-C-N	-5.06	117.28	123.30
1	2R	164	TYR	O-C-N	-5.06	116.86	122.07
1	31	20	LEU	N-CA-C	5.06	116.80	111.28
1	36	81	ASP	CA-C-N	5.06	127.02	120.44
1	36	81	ASP	C-N-CA	5.06	127.02	120.44
1	3a	99	PRO	N-CA-C	5.06	118.44	110.50
1	3c	16	SER	CA-C-N	5.06	124.55	119.19
1	3c	16	SER	C-N-CA	5.06	124.55	119.19
1	3c	207	PRO	N-CA-C	5.06	120.48	113.65
1	3i	120	HIS	CG-CD2-NE2	5.06	112.26	107.20
1	3i	175	GLU	N-CA-CB	5.06	117.48	110.04
1	3o	87	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	3s	70	LYS	CA-C-O	-5.06	115.06	120.42
1	3O	59	VAL	N-CA-C	5.06	114.55	107.37
1	3Q	91	ILE	O-C-N	-5.06	117.19	122.81
1	4o	24	VAL	N-CA-C	5.06	115.78	110.62
1	4L	188	THR	CA-CB-OG1	5.06	117.19	109.60
1	4L	202	LEU	CA-C-N	5.06	127.06	120.28
1	4L	202	LEU	C-N-CA	5.06	127.06	120.28
1	52	21	ASN	CB-CA-C	5.06	119.19	110.79
1	59	119	THR	CA-CB-OG1	5.06	117.19	109.60
1	5h	189	LEU	O-C-N	-5.06	116.76	122.12
1	5r	74	ASN	CA-C-N	5.06	127.06	120.28
1	5r	74	ASN	C-N-CA	5.06	127.06	120.28
1	5u	226	HIS	O-C-N	-5.06	115.86	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5w	107	THR	CA-C-O	5.06	125.52	119.60
1	5E	167	ARG	N-CA-C	5.06	116.48	111.07
1	5K	138	LEU	O-C-N	5.06	127.28	122.07
1	68	126	VAL	N-CA-C	5.06	116.39	110.62
1	6f	142	VAL	CA-CB-CG2	-5.06	101.80	110.40
1	6j	7	GLN	N-CA-C	5.06	116.88	111.36
1	6r	89	GLY	CA-C-N	5.06	125.06	119.90
1	6r	89	GLY	C-N-CA	5.06	125.06	119.90
1	6D	226	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	6K	52	LEU	CA-C-N	5.06	127.06	120.28
1	6K	52	LEU	C-N-CA	5.06	127.06	120.28
1	6L	164	TYR	CA-C-O	5.06	126.09	120.63
1	6O	163	ASP	CA-CB-CG	5.06	117.66	112.60
1	6S	124	ILE	CB-CA-C	5.06	117.00	111.18
1	6T	89	GLY	N-CA-C	5.06	122.66	112.34
1	6W	146	SER	N-CA-C	5.06	120.99	109.81
1	6X	40	PHE	N-CA-C	5.06	117.69	111.82
1	6X	194	ALA	N-CA-C	5.06	117.06	110.53
1	72	223	GLY	CA-C-O	-5.06	117.55	122.46
1	76	130	TYR	O-C-N	-5.06	116.86	122.07
1	7e	153	ILE	O-C-N	-5.06	117.16	122.83
1	7m	120	HIS	N-CA-C	5.06	116.86	110.33
1	7o	90	PRO	N-CA-C	5.06	119.51	111.26
1	7E	76	GLU	O-C-N	-5.06	116.38	122.15
1	7E	158	LYS	O-C-N	5.06	128.88	122.10
1	7E	176	GLN	N-CA-CB	5.06	117.66	110.98
1	7Q	161	PHE	O-C-N	-5.06	116.86	122.07
1	7V	68	MET	N-CA-C	5.06	116.48	111.07
1	85	21	ASN	CA-CB-CG	5.06	117.66	112.60
1	88	8	GLY	N-CA-C	5.06	121.01	111.80
1	8d	11	VAL	O-C-N	-5.06	117.59	123.00
1	8g	199	LYS	CG-CD-CE	5.06	122.94	111.30
1	8m	152	ASP	N-CA-C	-5.06	106.95	112.72
1	8A	97	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	8C	130	TYR	CA-C-N	5.06	127.06	120.28
1	8C	130	TYR	C-N-CA	5.06	127.06	120.28
1	8L	96	MET	CA-C-N	5.06	128.39	120.75
1	8L	96	MET	C-N-CA	5.06	128.39	120.75
1	8W	226	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	96	226	HIS	CA-CB-CG	-5.06	108.74	113.80
1	9c	23	TRP	N-CA-C	-5.06	105.68	111.14
1	9c	87	HIS	CE1-NE2-CD2	-5.06	103.94	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9e	219	GLN	CB-CA-C	5.06	118.47	109.72
1	9j	7	GLN	CA-C-O	5.06	125.89	120.32
1	9l	213	GLU	CA-C-N	5.06	127.31	120.38
1	9l	213	GLU	C-N-CA	5.06	127.31	120.38
1	9q	96	MET	CA-C-O	5.06	127.25	121.28
1	9u	111	LEU	CA-C-O	5.06	125.91	120.55
1	9z	221	VAL	CB-CA-C	-5.06	103.46	110.95
1	Y	76	GLU	CA-C-O	5.06	125.78	120.42
1	9Q	114	GLN	CA-CB-CG	-5.06	103.98	114.10
1	9R	153	ILE	O-C-N	-5.06	117.41	122.62
1	9R	226	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	a1	102	SER	N-CA-CB	5.06	117.35	110.01
1	a5	90	PRO	N-CD-CG	5.06	110.79	103.20
1	10	229	ARG	CG-CD-NE	-5.06	100.87	112.00
1	ae	127	GLY	O-C-N	-5.06	116.52	122.34
1	al	50	GLN	N-CA-C	5.06	116.79	111.28
1	aq	210	THR	CA-C-N	5.06	127.77	120.38
1	aq	210	THR	C-N-CA	5.06	127.77	120.38
1	aL	23	TRP	O-C-N	-5.06	116.86	122.07
1	aY	121	ASN	O-C-N	5.06	126.95	121.23
1	b8	196	PRO	CA-C-N	5.06	127.82	120.79
1	b8	196	PRO	C-N-CA	5.06	127.82	120.79
1	bc	79	GLU	CB-CA-C	5.06	119.19	110.79
1	bh	194	ALA	CB-CA-C	5.06	118.77	109.46
1	bl	62	HIS	CA-C-O	5.06	128.14	122.27
1	bq	22	ALA	CA-C-O	5.06	126.09	120.63
1	br	196	PRO	CA-C-N	5.06	127.06	120.28
1	br	196	PRO	C-N-CA	5.06	127.06	120.28
1	bt	155	GLN	N-CA-C	-5.06	103.37	110.50
1	bv	12	HIS	CB-CG-CD2	-5.06	124.62	131.20
1	bv	157	PRO	N-CA-C	-5.06	108.03	114.35
1	bA	144	MET	N-CA-C	5.06	117.45	111.33
1	19	197	ASP	N-CA-C	-5.06	105.66	111.07
1	bC	26	VAL	N-CA-C	5.06	117.41	111.09
1	bT	189	LEU	N-CA-CB	-5.06	102.40	109.94
1	1c	87	HIS	O-C-N	-5.06	117.45	123.22
1	cj	50	GLN	CB-CG-CD	-5.06	104.00	112.60
1	1e	95	GLN	CA-C-N	5.06	131.20	121.54
1	1e	95	GLN	C-N-CA	5.06	131.20	121.54
1	cx	12	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	cx	147	PRO	N-CA-CB	5.06	108.56	103.25
1	cz	23	TRP	CA-C-O	-5.06	114.15	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1f	87	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	cD	80	TRP	CB-CA-C	5.06	118.82	110.88
1	cE	203	LYS	N-CA-C	5.06	116.88	111.36
1	cF	129	ILE	O-C-N	-5.06	116.95	121.91
1	cG	109	SER	CA-C-N	5.06	129.79	121.39
1	cG	109	SER	C-N-CA	5.06	129.79	121.39
1	cJ	129	ILE	CB-CG1-CD1	5.06	124.42	113.80
1	cK	80	TRP	CA-C-O	5.06	126.13	120.82
1	cL	11	VAL	O-C-N	-5.06	117.43	123.00
1	cN	229	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	cQ	187	GLU	CA-C-N	5.06	127.48	120.29
1	cQ	187	GLU	C-N-CA	5.06	127.48	120.29
1	d2	226	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	1i	87	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	d4	82	ARG	CA-C-N	5.06	130.16	122.37
1	d4	82	ARG	C-N-CA	5.06	130.16	122.37
1	d5	30	LYS	CA-C-N	5.06	131.20	121.54
1	d5	30	LYS	C-N-CA	5.06	131.20	121.54
1	dt	21	ASN	CA-C-N	5.06	127.02	120.44
1	dt	21	ASN	C-N-CA	5.06	127.02	120.44
1	1l	26	VAL	O-C-N	-5.06	116.96	121.87
1	1l	33	SER	O-C-N	-5.06	116.86	122.17
1	dy	130	TYR	O-C-N	-5.06	116.76	122.12
1	dG	126	VAL	N-CA-CB	5.06	119.93	110.77
1	1n	189	LEU	N-CA-C	5.06	119.45	113.28
1	dT	85	PRO	CA-C-N	5.06	128.80	122.48
1	dT	85	PRO	C-N-CA	5.06	128.80	122.48
1	dX	185	MET	O-C-N	5.06	127.35	122.09
1	dZ	144	MET	O-C-N	-5.06	116.76	122.12
1	e4	158	LYS	O-C-N	-5.06	115.42	122.20
1	e7	159	GLU	CA-C-N	5.06	126.87	121.00
1	e7	159	GLU	C-N-CA	5.06	126.87	121.00
1	ed	214	MET	O-C-N	-5.06	115.55	122.33
1	eg	140	LYS	CA-C-O	5.06	125.91	120.55
1	em	186	THR	N-CA-C	5.06	118.71	112.54
1	et	4	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	ew	70	LYS	N-CA-C	5.06	116.80	111.28
1	eB	103	ASP	CA-C-N	5.06	127.61	120.42
1	eB	103	ASP	C-N-CA	5.06	127.61	120.42
1	eD	61	GLY	O-C-N	-5.06	117.29	122.60
1	eF	167	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	eG	3	VAL	N-CA-CB	5.06	117.19	110.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eK	199	LYS	CA-C-N	5.06	127.06	120.28
1	eK	199	LYS	C-N-CA	5.06	127.06	120.28
1	eP	25	LYS	N-CA-C	5.06	116.79	111.28
1	eQ	188	THR	CA-CB-OG1	5.06	117.19	109.60
1	eT	160	PRO	CB-CA-C	5.06	119.91	111.56
1	eW	121	ASN	CA-CB-CG	5.06	117.66	112.60
1	eZ	126	VAL	CA-CB-CG2	5.06	119.00	110.40
1	f3	66	MET	N-CA-C	5.06	116.80	111.28
1	f8	111	LEU	CB-CA-C	-5.06	102.94	110.88
1	fb	183	ASN	O-C-N	5.06	129.11	122.33
1	ff	102	SER	CA-C-O	5.06	125.58	119.31
1	ff	212	GLU	N-CA-C	5.06	116.48	111.07
1	fm	62	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	fn	65	ALA	O-C-N	-5.06	116.86	122.07
1	fL	149	SER	CA-C-O	5.06	127.74	120.51
1	fP	132	ARG	N-CA-C	-5.06	105.77	111.28
1	fS	92	GLU	CA-CB-CG	-5.06	103.98	114.10
1	fT	163	ASP	N-CA-C	5.06	117.53	111.71
1	fU	117	TRP	CB-CG-CD1	-5.06	119.31	126.90
1	g0	58	THR	O-C-N	5.06	129.59	122.41
1	g1	79	GLU	CA-C-N	5.06	127.31	120.38
1	g1	79	GLU	C-N-CA	5.06	127.31	120.38
1	g4	51	ASP	O-C-N	5.06	127.92	122.15
1	a	71	GLU	CA-C-N	5.06	127.37	120.54
1	a	71	GLU	C-N-CA	5.06	127.37	120.54
1	a	132	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	1	44	SER	CA-C-N	5.06	131.21	121.54
1	1	44	SER	C-N-CA	5.06	131.21	121.54
1	o	78	ALA	N-CA-CB	5.06	117.65	110.16
1	o	113	GLU	CB-CA-C	-5.06	102.94	110.88
1	s	20	LEU	O-C-N	-5.06	116.86	122.07
1	2	134	ILE	CA-C-N	5.06	127.39	120.46
1	2	134	ILE	C-N-CA	5.06	127.39	120.46
1	u	24	VAL	O-C-N	-5.06	116.96	121.87
1	x	125	PRO	N-CA-CB	-5.06	98.41	102.36
1	J	82	ARG	N-CA-C	5.06	118.60	112.23
1	M	210	THR	O-C-N	-5.06	117.24	122.96
1	N	23	TRP	CB-CA-C	5.06	119.19	110.79
1	T	29	GLU	N-CA-C	5.06	116.61	111.14
1	W	124	ILE	O-C-N	-5.06	115.33	121.10
1	gc	32	PHE	N-CA-CB	5.06	118.03	109.94
1	1C	155	GLN	CA-C-N	5.06	129.81	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1C	155	GLN	C-N-CA	5.06	129.81	121.87
1	gk	82	ARG	O-C-N	-5.06	116.76	122.12
1	gq	189	LEU	CA-C-O	-5.06	115.17	120.63
1	gw	62	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	gN	55	MET	N-CA-C	5.06	116.48	111.07
1	gN	190	LEU	N-CA-C	5.06	116.79	111.28
1	h2	99	PRO	CA-C-O	-5.06	115.64	121.36
1	h4	107	THR	N-CA-CB	-5.06	102.68	110.01
1	h5	4	GLN	CB-CG-CD	5.06	121.20	112.60
1	ha	166	ASP	CA-CB-CG	5.06	117.66	112.60
1	hb	108	THR	CA-CB-OG1	5.06	117.19	109.60
1	hk	51	ASP	CA-C-N	5.06	127.47	120.29
1	hk	51	ASP	C-N-CA	5.06	127.47	120.29
1	hC	150	ILE	CA-C-N	5.06	129.17	120.72
1	hC	150	ILE	C-N-CA	5.06	129.17	120.72
1	hC	173	ARG	CG-CD-NE	-5.06	100.87	112.00
1	hI	51	ASP	CB-CA-C	-5.06	102.25	110.85
1	hV	66	MET	CA-C-N	5.06	127.37	120.54
1	hV	66	MET	C-N-CA	5.06	127.37	120.54
1	i9	7	GLN	OE1-CD-NE2	5.06	127.66	122.60
1	ie	162	ARG	O-C-N	-5.06	116.30	122.22
1	ih	1	PRO	CA-CB-CG	5.06	114.11	104.50
1	iq	199	LYS	N-CA-C	5.06	116.79	111.28
1	iq	229	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	ix	68	MET	CA-C-N	5.06	127.01	120.44
1	ix	68	MET	C-N-CA	5.06	127.01	120.44
1	iy	30	LYS	CA-C-O	5.06	124.46	118.90
1	iA	224	PRO	CA-C-N	5.06	126.25	120.53
1	iA	224	PRO	C-N-CA	5.06	126.25	120.53
1	iR	6	LEU	O-C-N	-5.06	115.86	122.59
1	iW	12	HIS	N-CA-C	5.06	117.86	109.46
1	j1	17	PRO	N-CA-C	-5.06	107.54	113.86
1	1T	128	GLU	CB-CA-C	-5.06	102.72	110.81
1	j2	62	HIS	N-CA-C	5.06	121.57	110.80
1	j7	177	ALA	N-CA-C	5.06	117.23	110.35
1	j9	143	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	jf	113	GLU	CB-CG-CD	-5.06	104.00	112.60
1	ji	159	GLU	CB-CA-C	5.06	116.69	109.26
1	jl	56	LEU	CB-CA-C	-5.06	102.91	110.90
1	jm	102	SER	O-C-N	-5.06	115.48	122.46
1	jp	138	LEU	O-C-N	5.06	127.48	122.12
1	jA	192	GLN	CA-CB-CG	5.06	124.22	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jD	13	GLN	CB-CG-CD	5.06	121.20	112.60
1	jF	33	SER	O-C-N	-5.06	117.61	121.55
1	jK	167	ARG	CA-C-N	5.06	127.06	120.28
1	jK	167	ARG	C-N-CA	5.06	127.06	120.28
1	jN	178	SER	CA-C-N	5.06	127.02	120.44
1	jN	178	SER	C-N-CA	5.06	127.02	120.44
1	jO	211	LEU	CA-C-N	5.06	127.37	120.54
1	jO	211	LEU	C-N-CA	5.06	127.37	120.54
1	jP	176	GLN	CB-CA-C	-5.06	102.67	110.26
1	jS	9	GLN	CA-C-N	5.06	127.95	120.82
1	jS	9	GLN	C-N-CA	5.06	127.95	120.82
1	jW	178	SER	CA-C-N	5.06	127.02	120.44
1	jW	178	SER	C-N-CA	5.06	127.02	120.44
1	1Z	48	THR	CA-CB-OG1	5.06	117.19	109.60
1	k4	139	ASN	N-CA-C	5.06	117.45	111.33
1	k8	77	ALA	CB-CA-C	-5.06	102.25	110.85
1	ki	201	ILE	N-CA-C	5.06	115.28	110.42
1	kj	81	ASP	N-CA-C	5.06	117.45	111.33
1	kr	169	TYR	N-CA-C	5.06	116.79	111.28
1	22	73	ILE	N-CA-CB	5.06	119.92	110.77
1	kw	67	GLN	N-CA-CB	5.06	117.55	110.12
1	kw	84	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	kw	132	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	kR	120	HIS	CA-CB-CG	5.06	118.86	113.80
1	l0	98	GLU	O-C-N	-5.06	117.01	121.31
1	l5	193	ASN	N-CA-C	-5.06	106.95	112.72
1	26	168	PHE	O-C-N	-5.06	116.76	122.12
1	lj	183	ASN	CA-C-O	5.06	125.79	119.97
1	lm	152	ASP	CA-CB-CG	5.06	117.66	112.60
1	lt	48	THR	O-C-N	-5.06	115.97	121.53
1	lA	23	TRP	O-C-N	-5.06	116.83	122.09
1	lB	218	CYS	N-CA-CB	5.06	119.04	110.49
1	lE	143	ARG	NH1-CZ-NH2	-5.06	112.72	119.30
1	lN	73	ILE	CA-C-N	5.06	127.06	120.28
1	lN	73	ILE	C-N-CA	5.06	127.06	120.28
1	lR	75	GLU	CA-C-N	5.06	127.06	120.28
1	lR	75	GLU	C-N-CA	5.06	127.06	120.28
1	2b	103	ASP	O-C-N	5.06	127.92	122.15
1	2d	114	GLN	CA-C-O	-5.06	115.19	120.55
1	2q	163	ASP	CA-C-O	5.06	125.76	119.79
1	2t	182	LYS	O-C-N	-5.06	116.05	122.27
1	2y	176	GLN	N-CA-CB	5.06	117.94	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2A	186	THR	O-C-N	-5.06	116.86	122.07
1	2H	226	HIS	ND1-CG-CD2	-5.06	101.04	106.10
1	2P	28	GLU	N-CA-C	5.06	116.60	111.14
1	2X	32	PHE	N-CA-C	-5.06	105.58	112.26
1	31	118	MET	N-CA-C	5.06	116.79	111.28
1	33	67	GLN	CA-C-N	5.06	127.06	120.28
1	33	67	GLN	C-N-CA	5.06	127.06	120.28
1	34	125	PRO	N-CA-CB	-5.06	98.49	102.28
1	3b	50	GLN	CA-C-N	5.06	127.06	120.28
1	3b	50	GLN	C-N-CA	5.06	127.06	120.28
1	3e	208	ALA	N-CA-C	-5.06	101.39	109.23
1	3j	188	THR	CA-CB-OG1	5.06	117.19	109.60
1	3q	93	PRO	N-CA-C	5.06	119.15	111.11
1	3x	164	TYR	N-CA-C	5.06	116.60	111.14
1	3x	210	THR	CA-CB-OG1	5.06	117.19	109.60
1	3y	37	ILE	CB-CA-C	5.06	120.57	111.36
1	3B	183	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	3P	208	ALA	O-C-N	-5.06	118.01	123.42
1	47	53	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	4d	113	GLU	CA-C-O	5.06	125.78	120.42
1	4z	46	GLY	O-C-N	5.06	127.37	122.41
1	4F	22	ALA	CA-C-N	5.06	127.06	120.28
1	4F	22	ALA	C-N-CA	5.06	127.06	120.28
1	4K	66	MET	O-C-N	-5.06	116.76	122.12
1	4M	45	GLU	CB-CA-C	5.06	117.44	110.16
1	4P	9	GLN	CB-CG-CD	5.06	121.20	112.60
1	5d	121	ASN	CA-C-O	-5.06	115.64	119.59
1	5k	64	ALA	CA-C-N	5.06	127.37	120.54
1	5k	64	ALA	C-N-CA	5.06	127.37	120.54
1	5m	134	ILE	CB-CA-C	-5.06	105.31	112.14
1	5o	54	THR	CB-CA-C	-5.06	102.94	110.88
1	5s	6	LEU	N-CA-C	5.06	117.56	110.23
1	5s	84	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	5t	140	LYS	CB-CA-C	-5.06	102.94	110.88
1	5y	85	PRO	CA-C-O	-5.06	116.00	121.77
1	5G	135	ILE	CA-C-N	5.06	127.56	120.28
1	5G	135	ILE	C-N-CA	5.06	127.56	120.28
1	5J	29	GLU	O-C-N	-5.06	116.63	122.09
1	5J	84	HIS	O-C-N	-5.06	114.44	121.47
1	5P	29	GLU	CA-C-N	5.06	130.30	122.26
1	5P	29	GLU	C-N-CA	5.06	130.30	122.26
1	5S	1	PRO	CA-C-N	-5.06	114.41	122.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5S	1	PRO	C-N-CA	-5.06	114.41	122.50
1	5T	124	ILE	CA-C-O	-5.06	115.51	119.20
1	62	171	THR	N-CA-C	-5.06	104.76	112.04
1	64	98	GLU	CA-C-N	-5.06	114.14	120.51
1	64	98	GLU	C-N-CA	-5.06	114.14	120.51
1	6d	52	LEU	CA-C-N	5.06	127.06	120.28
1	6d	52	LEU	C-N-CA	5.06	127.06	120.28
1	6d	107	THR	N-CA-CB	5.06	118.64	110.40
1	6j	156	GLY	CA-C-O	-5.06	114.29	121.52
1	6p	42	ALA	CA-C-O	5.06	125.78	120.42
1	6r	181	VAL	CA-C-N	5.06	127.56	120.28
1	6r	181	VAL	C-N-CA	5.06	127.56	120.28
1	6s	212	GLU	CA-C-O	5.06	125.91	120.55
1	6u	38	PRO	N-CA-C	-5.06	106.94	113.57
1	6x	193	ASN	N-CA-CB	-5.06	103.14	110.47
1	6A	115	ILE	CA-C-N	5.06	125.59	119.98
1	6A	115	ILE	C-N-CA	5.06	125.59	119.98
1	6C	36	VAL	CA-C-N	5.06	124.38	120.33
1	6C	36	VAL	C-N-CA	5.06	124.38	120.33
1	6J	111	LEU	CB-CA-C	-5.06	101.28	110.63
1	6Z	35	GLU	N-CA-CB	-5.06	102.70	110.44
1	71	16	SER	CA-C-O	5.06	125.43	120.17
1	78	37	ILE	CA-C-O	-5.06	115.30	118.69
1	7f	120	HIS	CA-CB-CG	5.06	118.86	113.80
1	7h	45	GLU	N-CA-C	5.06	117.55	109.96
1	7s	112	GLN	O-C-N	5.06	127.28	122.07
1	7v	166	ASP	CA-CB-CG	-5.06	107.54	112.60
1	7R	34	PRO	N-CA-C	5.06	120.50	113.98
1	7S	36	VAL	CA-C-O	-5.06	115.01	120.47
1	7S	143	ARG	CB-CA-C	-5.06	102.39	110.79
1	8b	100	ARG	O-C-N	-5.06	116.76	122.68
1	8g	84	HIS	CG-CD2-NE2	5.06	112.26	107.20
1	8v	171	THR	CA-C-O	-5.06	115.06	120.42
1	8B	208	ALA	CA-C-O	5.06	126.87	120.65
1	8F	225	GLY	N-CA-C	5.06	120.35	112.31
1	8J	222	GLY	CA-C-N	5.06	129.81	121.87
1	8J	222	GLY	C-N-CA	5.06	129.81	121.87
1	8N	202	LEU	CA-C-N	5.06	128.00	120.31
1	8N	202	LEU	C-N-CA	5.06	128.00	120.31
1	92	155	GLN	O-C-N	-5.06	116.28	123.01
1	92	191	VAL	CA-CB-CG2	-5.06	101.80	110.40
1	93	100	ARG	NE-CZ-NH1	5.06	126.56	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	96	119	THR	O-C-N	5.06	128.27	122.25
1	9a	169	TYR	CB-CG-CD2	5.06	128.38	120.80
1	9r	62	HIS	ND1-CG-CD2	5.06	111.16	106.10
1	9G	173	ARG	CB-CA-C	-5.06	102.39	110.79
1	9L	97	ARG	CA-C-N	5.06	127.53	120.65
1	9L	97	ARG	C-N-CA	5.06	127.53	120.65
1	9P	143	ARG	O-C-N	-5.06	116.76	122.12
1	9Q	226	HIS	CA-CB-CG	-5.06	108.74	113.80
1	9R	51	ASP	N-CA-C	5.06	116.48	111.07
1	9R	138	LEU	N-CA-C	5.06	116.60	111.14
1	9V	215	MET	CA-C-O	5.06	126.09	120.63
1	9W	121	ASN	CA-C-O	-5.06	114.28	119.49
1	Z	76	GLU	O-C-N	5.06	127.48	122.12
1	a4	186	THR	N-CA-CB	5.06	117.34	110.01
1	a7	33	SER	CB-CA-C	5.06	116.91	109.22
1	a9	186	THR	N-CA-CB	5.06	117.34	110.01
1	10	230	VAL	N-CA-C	5.06	116.91	109.63
1	ab	14	ALA	CA-C-N	5.06	127.86	120.98
1	ab	14	ALA	C-N-CA	5.06	127.86	120.98
1	ah	211	LEU	N-CA-CB	5.06	117.56	110.12
1	an	145	TYR	CA-C-O	-5.06	113.16	119.18
1	as	124	ILE	O-C-N	-5.06	117.52	121.46
1	as	188	THR	N-CA-CB	5.06	117.34	110.01
1	ay	221	VAL	CA-C-N	5.06	125.47	120.31
1	ay	221	VAL	C-N-CA	5.06	125.47	120.31
1	aG	40	PHE	O-C-N	-5.06	116.76	122.12
1	aG	76	GLU	CA-C-N	5.06	127.47	120.29
1	aG	76	GLU	C-N-CA	5.06	127.47	120.29
1	aJ	184	TRP	N-CA-CB	5.06	117.56	110.12
1	aX	142	VAL	N-CA-CB	5.06	116.79	110.47
1	b4	33	SER	N-CA-C	-5.06	103.33	110.31
1	b6	183	ASN	CA-CB-CG	-5.06	107.54	112.60
1	16	123	PRO	N-CA-C	5.06	119.50	111.26
1	b8	142	VAL	CA-C-N	5.06	127.37	120.54
1	b8	142	VAL	C-N-CA	5.06	127.37	120.54
1	bc	20	LEU	N-CA-C	-5.06	105.85	111.36
1	bg	183	ASN	CA-CB-CG	5.06	117.66	112.60
1	bn	69	LEU	N-CA-C	5.06	116.79	111.28
1	bv	199	LYS	CB-CG-CD	5.06	122.93	111.30
1	bE	218	CYS	N-CA-C	5.06	118.75	112.58
1	bK	219	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	c0	117	TRP	CD2-CE2-CZ2	-5.06	117.34	122.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cj	185	MET	CA-C-O	5.06	126.09	120.63
1	cm	37	ILE	N-CA-CB	5.06	113.91	110.52
1	cw	80	TRP	CD2-CE2-CZ2	-5.06	117.34	122.40
1	dn	230	VAL	N-CA-C	5.06	116.91	109.63
1	dG	27	VAL	O-C-N	-5.06	116.64	121.90
1	1m	147	PRO	N-CA-C	-5.06	102.05	112.47
1	dM	193	ASN	N-CA-C	-5.06	106.70	112.92
1	dT	150	ILE	CB-CA-C	5.06	118.97	112.14
1	dX	83	LEU	N-CA-C	-5.06	105.85	111.36
1	dZ	67	GLN	O-C-N	-5.06	116.05	122.27
1	e6	185	MET	N-CA-C	5.06	117.69	111.82
1	1p	116	GLY	O-C-N	-5.06	117.12	122.13
1	ej	100	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	1q	56	LEU	CA-C-N	5.06	127.06	120.28
1	1q	56	LEU	C-N-CA	5.06	127.06	120.28
1	en	226	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	ep	5	ASN	OD1-CG-ND2	5.06	127.66	122.60
1	ep	123	PRO	CA-C-N	5.06	131.49	122.13
1	ep	123	PRO	C-N-CA	5.06	131.49	122.13
1	es	191	VAL	O-C-N	-5.06	116.64	121.90
1	1r	66	MET	O-C-N	-5.06	116.76	122.12
1	eE	81	ASP	O-C-N	-5.06	116.76	122.12
1	eM	166	ASP	N-CA-CB	-5.06	102.68	110.01
1	eU	178	SER	CA-C-N	5.06	127.37	120.54
1	eU	178	SER	C-N-CA	5.06	127.37	120.54
1	f7	61	GLY	O-C-N	5.06	128.22	122.86
1	f9	39	MET	CG-SD-CE	5.06	112.03	100.90
1	fc	28	GLU	N-CA-CB	-5.06	102.69	110.12
1	1w	7	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	fk	27	VAL	CA-C-O	5.06	125.71	120.25
1	fl	106	GLY	O-C-N	-5.06	116.95	122.41
1	fm	181	VAL	O-C-N	-5.06	116.96	121.87
1	fn	188	THR	CA-CB-OG1	5.06	117.19	109.60
1	fp	156	GLY	CA-C-N	5.06	124.36	118.85
1	fp	156	GLY	C-N-CA	5.06	124.36	118.85
1	fp	230	VAL	N-CA-CB	-5.06	103.33	110.26
1	fu	191	VAL	O-C-N	-5.06	116.95	121.91
1	fA	33	SER	CA-C-N	5.06	125.34	119.47
1	fA	33	SER	C-N-CA	5.06	125.34	119.47
1	1y	84	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	fJ	87	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	fK	48	THR	N-CA-CB	5.06	116.15	110.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fK	195	ASN	CA-CB-CG	5.06	117.66	112.60
1	fL	4	GLN	OE1-CD-NE2	-5.06	117.54	122.60
1	1z	25	LYS	N-CA-C	5.06	116.79	111.28
1	fQ	128	GLU	CA-C-N	5.06	127.03	120.56
1	fQ	128	GLU	C-N-CA	5.06	127.03	120.56
1	fS	56	LEU	N-CA-C	5.06	116.79	111.28
1	1A	109	SER	N-CA-CB	-5.06	102.75	111.55
1	g7	180	GLU	CA-C-O	-5.06	115.17	120.63
1	d	153	ILE	N-CA-CB	5.06	117.53	111.31
1	n	141	ILE	CA-C-O	-5.06	115.69	120.95
1	r	33	SER	CA-CB-OG	5.06	121.22	111.10
1	2	1	PRO	CA-C-N	5.06	129.30	122.93
1	2	1	PRO	C-N-CA	5.06	129.30	122.93
1	2	192	GLN	CB-CG-CD	-5.06	104.00	112.60
1	K	136	LEU	CA-C-N	5.06	125.70	119.99
1	K	136	LEU	C-N-CA	5.06	125.70	119.99
1	O	189	LEU	O-C-N	-5.06	116.76	122.12
1	X	161	PHE	N-CA-CB	-5.06	102.43	110.22
1	5	210	THR	N-CA-CB	5.06	118.01	109.92
1	7	154	ARG	CA-C-N	5.06	129.13	122.30
1	7	154	ARG	C-N-CA	5.06	129.13	122.30
1	gb	110	THR	CA-C-N	5.06	127.37	120.54
1	gb	110	THR	C-N-CA	5.06	127.37	120.54
1	1C	141	ILE	CA-CB-CG1	5.06	119.00	110.40
1	gi	226	HIS	CA-C-O	5.06	125.91	120.55
1	gv	9	GLN	CA-C-N	5.06	128.84	121.31
1	gv	9	GLN	C-N-CA	5.06	128.84	121.31
1	1F	138	LEU	N-CA-CB	5.06	118.01	110.22
1	gO	197	ASP	CB-CA-C	5.06	119.18	110.79
1	h4	37	ILE	CA-C-O	-5.06	115.30	118.69
1	1I	81	ASP	N-CA-C	5.06	117.69	111.82
1	hA	172	LEU	N-CA-C	5.06	117.53	111.71
1	hN	71	GLU	CB-CA-C	-5.06	102.40	110.79
1	ia	143	ARG	NE-CZ-NH2	-5.06	114.65	119.20
1	iu	175	GLU	O-C-N	-5.06	116.05	122.27
1	iB	97	ARG	NE-CZ-NH2	-5.06	114.65	119.20
1	iR	31	ALA	N-CA-C	5.06	121.57	110.80
1	iS	213	GLU	N-CA-C	5.06	116.79	111.28
1	j3	84	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	j7	169	TYR	O-C-N	-5.06	116.86	122.07
1	ja	120	HIS	CB-CG-ND1	5.06	130.28	122.70
1	jq	210	THR	N-CA-CB	5.06	118.83	110.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ju	39	MET	CA-C-N	5.06	127.47	120.29
1	ju	39	MET	C-N-CA	5.06	127.47	120.29
1	jC	87	HIS	CB-CG-CD2	-5.06	124.63	131.20
1	jK	150	ILE	CA-C-N	5.06	127.99	120.31
1	jK	150	ILE	C-N-CA	5.06	127.99	120.31
1	jN	111	LEU	CA-C-O	-5.06	115.26	120.92
1	k2	118	MET	CA-C-O	5.06	125.78	120.42
1	k4	86	VAL	CA-CB-CG1	5.06	119.00	110.40
1	kh	84	HIS	CG-CD2-NE2	5.06	112.26	107.20
1	21	218	CYS	CA-C-N	5.06	128.84	121.31
1	21	218	CYS	C-N-CA	5.06	128.84	121.31
1	kL	132	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	kS	67	GLN	CG-CD-NE2	5.06	123.98	116.40
1	le	162	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	ln	141	ILE	CB-CA-C	-5.06	105.40	112.02
1	ly	28	GLU	CB-CA-C	-5.06	103.17	110.96
1	lA	193	ASN	OD1-CG-ND2	-5.06	117.54	122.60
1	lB	51	ASP	N-CA-CB	5.06	117.47	109.94
1	2h	165	VAL	CA-C-N	5.06	127.06	120.28
1	2h	165	VAL	C-N-CA	5.06	127.06	120.28
1	2j	193	ASN	N-CA-CB	5.06	119.28	111.39
1	2B	173	ARG	O-C-N	-5.06	116.76	122.12
1	2H	98	GLU	CB-CA-C	5.06	118.16	109.82
1	39	45	GLU	N-CA-CB	5.06	119.03	110.49
1	3s	155	GLN	N-CA-C	5.06	118.11	111.28
1	3D	149	SER	O-C-N	-5.06	117.09	122.85
1	3H	226	HIS	CA-CB-CG	-5.06	108.74	113.80
1	3I	166	ASP	CA-CB-CG	-5.06	107.54	112.60
1	3Q	96	MET	N-CA-C	5.06	117.56	110.23
1	3V	69	LEU	CB-CA-C	5.06	118.82	110.88
1	45	192	GLN	CB-CA-C	-5.06	100.96	110.67
1	47	173	ARG	NH1-CZ-NH2	-5.06	112.73	119.30
1	48	86	VAL	CA-CB-CG1	5.06	119.00	110.40
1	49	75	GLU	O-C-N	-5.06	116.86	122.07
1	4o	62	HIS	CA-C-N	5.06	127.56	120.28
1	4o	62	HIS	C-N-CA	5.06	127.56	120.28
1	4C	199	LYS	O-C-N	5.06	127.48	122.12
1	4E	104	ILE	N-CA-C	-5.06	105.61	110.72
1	4L	73	ILE	CA-CB-CG2	5.06	119.10	110.50
1	4Y	228	ALA	CA-C-N	5.06	129.73	122.40
1	4Y	228	ALA	C-N-CA	5.06	129.73	122.40
1	56	221	VAL	N-CA-C	5.06	115.25	108.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	58	169	TYR	CB-CA-C	5.06	120.38	110.67
1	59	103	ASP	CA-CB-CG	-5.06	107.54	112.60
1	5d	57	ASN	O-C-N	-5.06	115.23	122.41
1	5f	76	GLU	CB-CA-C	-5.06	102.40	110.79
1	5I	206	GLY	CA-C-N	5.06	124.55	119.19
1	5I	206	GLY	C-N-CA	5.06	124.55	119.19
1	5K	5	ASN	CA-CB-CG	-5.06	107.54	112.60
1	5M	145	TYR	CB-CG-CD1	-5.06	113.22	120.80
1	5Y	115	ILE	CB-CG1-CD1	5.06	124.42	113.80
1	63	39	MET	CA-CB-CG	5.06	124.21	114.10
1	6b	226	HIS	CE1-NE2-CD2	-5.06	103.94	109.00
1	6i	35	GLU	O-C-N	-5.06	116.05	122.27
1	6q	32	PHE	CA-C-O	5.06	125.48	119.56
1	6s	138	LEU	CA-C-N	5.06	127.06	120.28
1	6s	138	LEU	C-N-CA	5.06	127.06	120.28
1	6u	41	SER	O-C-N	-5.06	116.76	122.12
1	6A	227	LYS	CA-C-O	5.06	125.80	119.78
1	6J	68	MET	CG-SD-CE	-5.06	89.78	100.90
1	6V	47	ALA	O-C-N	-5.06	116.89	122.86
1	78	72	THR	N-CA-CB	5.06	117.40	110.07
1	7g	166	ASP	N-CA-C	5.06	116.79	111.28
1	7h	174	ALA	CA-C-O	-5.06	115.49	120.70
1	7h	223	GLY	O-C-N	-5.06	116.71	121.77
1	7v	152	ASP	CA-C-N	5.06	127.47	120.49
1	7v	152	ASP	C-N-CA	5.06	127.47	120.49
1	7B	209	ALA	N-CA-CB	-5.06	102.19	109.83
1	7C	93	PRO	N-CA-C	5.06	119.15	111.11
1	7N	40	PHE	CA-C-N	5.06	127.01	120.44
1	7N	40	PHE	C-N-CA	5.06	127.01	120.44
1	7O	214	MET	CG-SD-CE	-5.06	89.78	100.90
1	7Z	169	TYR	CA-C-N	5.06	128.69	120.60
1	7Z	169	TYR	C-N-CA	5.06	128.69	120.60
1	80	20	LEU	N-CA-C	5.06	117.52	111.71
1	82	45	GLU	O-C-N	-5.06	116.71	122.93
1	8l	144	MET	CG-SD-CE	-5.06	89.78	100.90
1	8N	27	VAL	CA-C-O	5.06	126.53	121.17
1	8Y	115	ILE	CA-C-N	5.06	125.45	119.94
1	8Y	115	ILE	C-N-CA	5.06	125.45	119.94
1	9r	27	VAL	CA-C-N	5.06	129.23	120.58
1	9r	27	VAL	C-N-CA	5.06	129.23	120.58
1	9N	211	LEU	CA-C-N	5.06	127.06	120.28
1	9N	211	LEU	C-N-CA	5.06	127.06	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Q	129	ILE	CA-CB-CG1	5.06	119.00	110.40
1	9Y	207	PRO	CA-N-CD	5.06	119.08	112.00
1	9Z	202	LEU	CA-C-O	5.06	125.91	120.55
1	ad	100	ARG	O-C-N	-5.06	117.03	122.79
1	af	43	LEU	CB-CA-C	5.06	119.28	110.68
1	ag	12	HIS	O-C-N	-5.06	117.30	123.16
1	as	156	GLY	CA-C-O	-5.06	114.29	121.52
1	at	152	ASP	CA-CB-CG	-5.06	107.54	112.60
1	aQ	212	GLU	N-CA-C	5.06	117.45	111.33
1	bq	25	LYS	CA-C-O	5.06	125.91	120.55
1	bq	218	CYS	O-C-N	-5.06	115.78	122.40
1	bQ	183	ASN	N-CA-C	5.06	117.52	111.71
1	c5	182	LYS	CA-C-O	-5.06	115.19	120.55
1	1d	150	ILE	CA-C-O	-5.06	115.79	121.05
1	ci	143	ARG	NH1-CZ-NH2	-5.06	112.73	119.30
1	cC	117	TRP	CZ3-CH2-CZ2	5.06	128.07	121.50
1	cH	224	PRO	CA-C-O	-5.06	115.63	121.95
1	d4	182	LYS	N-CA-C	5.06	116.79	111.28
1	dJ	185	MET	CA-C-N	5.06	127.06	120.28
1	dJ	185	MET	C-N-CA	5.06	127.06	120.28
1	1n	46	GLY	CA-C-N	5.06	127.89	120.71
1	1n	46	GLY	C-N-CA	5.06	127.89	120.71
1	e0	227	LYS	CG-CD-CE	5.06	122.93	111.30
1	er	193	ASN	CA-C-O	5.06	125.27	119.35
1	1s	193	ASN	CB-CG-OD1	5.06	130.91	120.80
1	fi	72	THR	CA-CB-OG1	5.06	117.18	109.60
1	fn	72	THR	N-CA-C	5.06	116.48	111.07
1	1y	28	GLU	CA-C-O	5.06	126.13	120.82
1	fI	132	ARG	NE-CZ-NH1	5.06	126.56	121.50
1	fQ	189	LEU	N-CA-C	5.06	116.48	111.07
1	y	143	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	J	186	THR	N-CA-CB	5.06	118.09	110.30
1	L	173	ARG	NE-CZ-NH2	5.06	123.75	119.20
1	6	48	THR	N-CA-CB	5.06	116.76	109.78
1	gb	221	VAL	CA-C-O	5.05	123.76	118.96
1	ge	205	LEU	N-CA-C	5.05	116.48	111.07
1	gp	94	GLY	CA-C-N	5.05	127.76	120.38
1	gp	94	GLY	C-N-CA	5.05	127.76	120.38
1	gr	75	GLU	N-CA-C	5.05	116.79	111.28
1	1D	171	THR	CA-C-N	5.05	127.56	120.28
1	1D	171	THR	C-N-CA	5.05	127.56	120.28
1	gB	208	ALA	CB-CA-C	5.05	118.63	111.86

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gC	43	LEU	O-C-N	-5.05	116.39	122.15
1	gH	225	GLY	O-C-N	-5.05	116.13	122.70
1	gK	48	THR	N-CA-CB	5.05	118.00	110.02
1	gN	77	ALA	CA-C-N	5.05	127.05	120.28
1	gN	77	ALA	C-N-CA	5.05	127.05	120.28
1	gP	86	VAL	N-CA-C	5.05	116.80	108.97
1	gS	179	GLN	N-CA-C	5.05	117.45	111.33
1	gU	127	GLY	CA-C-O	5.05	126.46	121.00
1	gZ	113	GLU	CA-C-N	5.05	127.05	120.28
1	gZ	113	GLU	C-N-CA	5.05	127.05	120.28
1	h0	132	ARG	N-CA-C	5.05	116.79	111.28
1	h1	10	MET	O-C-N	-5.05	117.36	123.27
1	h7	27	VAL	CA-C-O	5.05	123.76	118.96
1	h7	206	GLY	N-CA-C	5.05	122.65	112.34
1	hc	56	LEU	CA-C-O	-5.05	114.63	120.24
1	hi	126	VAL	CA-C-O	-5.05	115.49	120.85
1	hs	13	GLN	O-C-N	-5.05	117.41	123.27
1	ht	71	GLU	CA-C-N	5.05	127.05	120.28
1	ht	71	GLU	C-N-CA	5.05	127.05	120.28
1	hz	23	TRP	CB-CG-CD2	5.05	133.88	126.80
1	hF	176	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	hI	89	GLY	O-C-N	-5.05	116.27	122.03
1	hU	140	LYS	N-CA-CB	5.05	117.55	110.12
1	i7	71	GLU	N-CA-C	5.05	117.44	111.33
1	ia	87	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	ie	165	VAL	CA-C-N	5.05	127.05	120.28
1	ie	165	VAL	C-N-CA	5.05	127.05	120.28
1	ii	226	HIS	CA-CB-CG	5.05	118.86	113.80
1	ik	55	MET	CA-C-O	5.05	126.63	121.07
1	ik	66	MET	O-C-N	-5.05	116.76	122.12
1	in	97	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	iy	183	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	iy	190	LEU	CA-C-N	5.05	128.65	122.63
1	iy	190	LEU	C-N-CA	5.05	128.65	122.63
1	iz	39	MET	CA-C-N	5.05	127.05	120.28
1	iz	39	MET	C-N-CA	5.05	127.05	120.28
1	iB	55	MET	N-CA-C	5.05	117.17	111.11
1	iE	107	THR	CA-C-N	5.05	130.48	122.60
1	iE	107	THR	C-N-CA	5.05	130.48	122.60
1	iH	157	PRO	CB-CA-C	-5.05	104.97	112.55
1	iX	98	GLU	O-C-N	5.05	126.78	121.42
1	iZ	155	GLN	CB-CA-C	5.05	118.07	109.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1T	65	ALA	N-CA-C	5.05	116.48	111.07
1	jg	21	ASN	CB-CG-ND2	5.05	123.98	116.40
1	1W	61	GLY	O-C-N	-5.05	116.13	122.70
1	jz	138	LEU	CA-C-O	5.05	125.91	120.55
1	jI	189	LEU	CA-C-O	5.05	125.75	119.79
1	jO	110	THR	CA-CB-OG1	5.05	117.18	109.60
1	jX	172	LEU	CA-C-N	5.05	127.36	120.54
1	jX	172	LEU	C-N-CA	5.05	127.36	120.54
1	k4	177	ALA	CB-CA-C	-5.05	103.26	110.34
1	k7	4	GLN	N-CA-C	5.05	117.56	110.23
1	ka	21	ASN	CB-CG-OD1	5.05	130.91	120.80
1	kc	111	LEU	CA-C-O	-5.05	115.17	120.63
1	ke	74	ASN	CA-CB-CG	5.05	117.65	112.60
1	kt	25	LYS	CB-CA-C	5.05	120.37	110.67
1	kx	5	ASN	O-C-N	-5.05	116.31	122.22
1	kB	21	ASN	N-CA-C	5.05	116.79	111.28
1	kG	40	PHE	N-CA-C	5.05	116.48	111.07
1	24	59	VAL	N-CA-CB	5.05	116.30	110.49
1	25	95	GLN	CA-C-N	5.05	127.89	120.71
1	25	95	GLN	C-N-CA	5.05	127.89	120.71
1	l6	187	GLU	CA-C-N	5.05	127.30	120.38
1	l6	187	GLU	C-N-CA	5.05	127.30	120.38
1	lb	192	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	lj	199	LYS	CA-C-N	5.05	127.82	120.79
1	lj	199	LYS	C-N-CA	5.05	127.82	120.79
1	lk	14	ALA	CA-C-N	5.05	127.85	120.98
1	lk	14	ALA	C-N-CA	5.05	127.85	120.98
1	lr	118	MET	N-CA-C	5.05	117.68	111.82
1	28	185	MET	CA-C-N	5.05	127.47	120.29
1	28	185	MET	C-N-CA	5.05	127.47	120.29
1	lE	79	GLU	CA-C-N	5.05	127.05	120.28
1	lE	79	GLU	C-N-CA	5.05	127.05	120.28
1	lF	196	PRO	CA-C-N	5.05	127.01	120.44
1	lF	196	PRO	C-N-CA	5.05	127.01	120.44
1	lK	14	ALA	N-CA-C	5.05	117.56	110.23
1	lQ	103	ASP	N-CA-C	-5.05	106.96	113.23
1	lR	129	ILE	O-C-N	-5.05	116.62	121.83
1	2b	88	ALA	CA-C-O	5.05	126.44	120.58
1	2e	171	THR	N-CA-C	5.05	116.79	111.28
1	2g	217	ALA	N-CA-C	5.05	117.63	110.10
1	2l	111	LEU	O-C-N	-5.05	116.83	122.09
1	2s	53	ASN	CA-C-N	5.05	127.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2s	53	ASN	C-N-CA	5.05	127.05	120.28
1	2z	140	LYS	N-CA-C	-5.05	105.66	111.07
1	2z	170	LYS	N-CA-CB	5.05	117.34	110.01
1	2G	63	GLN	CG-CD-NE2	5.05	123.98	116.40
1	2G	178	SER	N-CA-C	5.05	116.81	110.24
1	2Y	21	ASN	CA-C-N	5.05	127.47	120.29
1	2Y	21	ASN	C-N-CA	5.05	127.47	120.29
1	2Z	20	LEU	CA-C-O	5.05	126.13	120.82
1	30	149	SER	N-CA-C	5.05	117.22	110.35
1	30	189	LEU	O-C-N	-5.05	116.39	122.15
1	3d	109	SER	O-C-N	-5.05	117.40	123.31
1	3g	213	GLU	O-C-N	-5.05	116.39	122.15
1	3l	7	GLN	CA-CB-CG	5.05	124.21	114.10
1	3s	167	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	3u	113	GLU	N-CA-CB	-5.05	102.41	109.94
1	3w	85	PRO	CA-C-N	5.05	131.07	121.97
1	3w	85	PRO	C-N-CA	5.05	131.07	121.97
1	3x	191	VAL	N-CA-CB	5.05	117.04	110.57
1	3x	216	THR	N-CA-C	5.05	119.14	112.92
1	3J	1	PRO	CB-CA-C	5.05	119.70	110.10
1	3K	162	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	3L	97	ARG	O-C-N	-5.05	116.65	122.87
1	3N	156	GLY	N-CA-C	-5.05	102.03	112.34
1	3U	40	PHE	N-CA-C	5.05	117.18	111.11
1	3V	80	TRP	O-C-N	-5.05	116.31	122.22
1	40	196	PRO	CA-C-O	-5.05	112.41	119.74
1	4f	77	ALA	N-CA-C	5.05	116.79	111.28
1	4k	80	TRP	CE2-CD2-CE3	5.05	123.86	118.80
1	4s	75	GLU	CA-C-O	5.05	125.91	120.55
1	4u	34	PRO	N-CD-CG	5.05	110.78	103.20
1	4D	116	GLY	N-CA-C	5.05	118.36	112.50
1	4F	94	GLY	O-C-N	5.05	129.27	122.70
1	4L	112	GLN	N-CA-C	5.05	116.48	111.07
1	4L	159	GLU	CA-C-N	5.05	125.34	119.93
1	4L	159	GLU	C-N-CA	5.05	125.34	119.93
1	4Z	87	HIS	CA-C-N	5.05	129.44	121.56
1	4Z	87	HIS	C-N-CA	5.05	129.44	121.56
1	57	130	TYR	O-C-N	-5.05	116.39	122.15
1	5q	91	ILE	CA-C-N	5.05	128.33	120.60
1	5q	91	ILE	C-N-CA	5.05	128.33	120.60
1	5A	180	GLU	CB-CG-CD	5.05	121.19	112.60
1	5G	212	GLU	CB-CG-CD	5.05	121.19	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5H	15	ILE	O-C-N	-5.05	117.42	122.62
1	5O	132	ARG	NE-CZ-NH1	5.05	126.56	121.50
1	5Q	16	SER	CA-C-N	5.05	124.50	119.24
1	5Q	16	SER	C-N-CA	5.05	124.50	119.24
1	5U	34	PRO	O-C-N	-5.05	115.82	122.64
1	5X	159	GLU	CB-CA-C	5.05	115.17	110.17
1	5Y	65	ALA	O-C-N	-5.05	116.76	122.12
1	64	162	ARG	O-C-N	-5.05	116.39	122.15
1	68	175	GLU	N-CA-C	5.05	117.56	110.23
1	6o	40	PHE	CA-CB-CG	5.05	118.86	113.80
1	6o	72	THR	N-CA-C	5.05	116.87	111.36
1	6B	24	VAL	O-C-N	5.05	126.77	121.87
1	6B	100	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	6C	97	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	6E	18	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	70	15	ILE	O-C-N	-5.05	117.17	122.68
1	78	39	MET	N-CA-CB	5.05	117.55	110.12
1	78	226	HIS	CE1-NE2-CD2	-5.05	103.94	109.00
1	79	3	VAL	O-C-N	-5.05	117.58	122.99
1	7a	164	TYR	CB-CA-C	5.05	118.81	110.88
1	7b	30	LYS	CA-C-N	5.05	131.19	121.54
1	7b	30	LYS	C-N-CA	5.05	131.19	121.54
1	7k	100	ARG	NE-CZ-NH1	5.05	126.56	121.50
1	7l	221	VAL	CA-C-N	5.05	126.24	120.53
1	7l	221	VAL	C-N-CA	5.05	126.24	120.53
1	7E	70	LYS	CA-C-N	5.05	127.99	120.31
1	7E	70	LYS	C-N-CA	5.05	127.99	120.31
1	7I	99	PRO	N-CA-C	5.05	122.88	112.47
1	7J	168	PHE	N-CA-CB	-5.05	102.65	110.13
1	87	63	GLN	N-CA-C	5.05	119.48	112.45
1	89	214	MET	N-CA-C	5.05	116.87	111.36
1	8c	7	GLN	OE1-CD-NE2	5.05	127.66	122.60
1	8o	23	TRP	CD2-CE3-CZ3	-5.05	112.03	118.60
1	8p	47	ALA	N-CA-C	5.05	118.19	110.20
1	8t	96	MET	CB-CA-C	5.05	118.29	109.65
1	8u	123	PRO	CA-C-O	-5.05	115.77	121.43
1	8v	118	MET	N-CA-C	5.05	117.52	111.71
1	91	57	ASN	CB-CA-C	-5.05	102.91	110.90
1	96	40	PHE	CA-C-O	5.05	125.78	119.97
1	9a	22	ALA	O-C-N	-5.05	116.86	122.07
1	9a	128	GLU	CA-C-N	5.05	126.93	120.56
1	9a	128	GLU	C-N-CA	5.05	126.93	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9f	62	HIS	CA-CB-CG	-5.05	108.75	113.80
1	9g	197	ASP	O-C-N	-5.05	116.31	122.22
1	9l	80	TRP	CA-C-N	5.05	127.47	120.29
1	9l	80	TRP	C-N-CA	5.05	127.47	120.29
1	9v	183	ASN	CB-CA-C	-5.05	102.95	110.88
1	9I	2	ILE	O-C-N	-5.05	117.98	123.14
1	9X	84	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	a0	59	VAL	CB-CA-C	5.05	118.86	111.33
1	a2	91	ILE	N-CA-C	5.05	117.77	109.78
1	a6	109	SER	CA-C-N	5.05	128.05	120.87
1	a6	109	SER	C-N-CA	5.05	128.05	120.87
1	ae	157	PRO	N-CA-CB	5.05	108.89	103.33
1	ah	35	GLU	CA-C-O	5.05	125.81	120.10
1	am	16	SER	CA-C-N	5.05	126.16	119.84
1	am	16	SER	C-N-CA	5.05	126.16	119.84
1	aw	216	THR	N-CA-C	-5.05	106.21	112.93
1	aF	51	ASP	N-CA-C	5.05	116.79	111.28
1	aG	27	VAL	O-C-N	-5.05	116.62	121.83
1	aG	163	ASP	CA-CB-CG	-5.05	107.55	112.60
1	aO	179	GLN	CA-C-N	5.05	127.30	120.38
1	aO	179	GLN	C-N-CA	5.05	127.30	120.38
1	aV	5	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	b1	97	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	b6	67	GLN	CA-C-N	5.05	127.47	120.29
1	b6	67	GLN	C-N-CA	5.05	127.47	120.29
1	b8	20	LEU	N-CA-CB	5.05	118.08	110.30
1	bb	134	ILE	CB-CA-C	5.05	118.97	112.14
1	bi	227	LYS	N-CA-C	5.05	116.75	109.07
1	18	137	GLY	CA-C-N	5.05	127.01	120.44
1	18	137	GLY	C-N-CA	5.05	127.01	120.44
1	bw	68	MET	O-C-N	-5.05	116.76	122.12
1	bw	223	GLY	O-C-N	-5.05	116.72	121.77
1	bD	16	SER	CA-C-N	5.05	124.67	119.56
1	bD	16	SER	C-N-CA	5.05	124.67	119.56
1	c0	56	LEU	N-CA-C	5.05	116.79	111.28
1	cc	157	PRO	CB-CA-C	-5.05	103.17	111.31
1	ce	69	LEU	CB-CA-C	5.05	118.81	110.88
1	ch	64	ALA	N-CA-CB	-5.05	102.68	110.01
1	ci	53	ASN	O-C-N	-5.05	116.76	122.12
1	ct	104	ILE	N-CA-C	5.05	115.78	110.62
1	cv	55	MET	N-CA-CB	5.05	117.29	109.91
1	cv	153	ILE	N-CA-CB	5.05	116.43	110.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	223	GLY	CA-C-N	5.05	124.67	119.56
1	cx	223	GLY	C-N-CA	5.05	124.67	119.56
1	cD	132	ARG	NE-CZ-NH2	5.05	123.75	119.20
1	cL	183	ASN	N-CA-C	5.05	116.87	111.36
1	cT	154	ARG	NE-CZ-NH2	5.05	123.75	119.20
1	d1	180	GLU	N-CA-C	5.05	116.79	111.28
1	1i	125	PRO	N-CA-CB	5.05	108.56	103.25
1	d6	196	PRO	N-CA-CB	5.05	108.56	103.25
1	d7	130	TYR	O-C-N	-5.05	116.39	122.15
1	db	49	PRO	CA-C-N	5.05	127.01	120.44
1	db	49	PRO	C-N-CA	5.05	127.01	120.44
1	di	169	TYR	CA-C-O	5.05	125.91	120.55
1	1k	139	ASN	CA-CB-CG	5.05	117.65	112.60
1	du	121	ASN	CB-CA-C	-5.05	103.51	109.47
1	du	125	PRO	CA-N-CD	-5.05	104.92	112.00
1	dw	20	LEU	O-C-N	5.05	127.28	122.07
1	dT	70	LYS	N-CA-C	5.05	116.79	111.28
1	e7	208	ALA	CA-C-N	5.05	131.20	121.54
1	e7	208	ALA	C-N-CA	5.05	131.20	121.54
1	ec	114	GLN	N-CA-C	5.05	116.79	111.28
1	ed	108	THR	O-C-N	-5.05	116.24	122.25
1	ej	131	LYS	CA-C-N	5.05	127.47	120.29
1	ej	131	LYS	C-N-CA	5.05	127.47	120.29
1	ek	89	GLY	CA-C-N	5.05	125.34	119.93
1	ek	89	GLY	C-N-CA	5.05	125.34	119.93
1	eq	154	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	eA	120	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	eA	200	THR	O-C-N	5.05	127.49	122.08
1	eE	148	THR	CA-CB-CG2	5.05	119.09	110.50
1	eH	154	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	eJ	154	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	eJ	222	GLY	CA-C-N	5.05	127.83	121.36
1	eJ	222	GLY	C-N-CA	5.05	127.83	121.36
1	eL	181	VAL	CB-CA-C	-5.05	105.50	111.97
1	eW	35	GLU	N-CA-C	5.05	117.52	111.71
1	eW	66	MET	CG-SD-CE	-5.05	89.78	100.90
1	eX	100	ARG	CG-CD-NE	-5.05	100.88	112.00
1	eZ	207	PRO	CA-C-N	5.05	129.59	122.46
1	eZ	207	PRO	C-N-CA	5.05	129.59	122.46
1	f2	99	PRO	N-CA-CB	-5.05	97.36	102.72
1	f3	163	ASP	CA-C-O	5.05	125.78	120.42
1	f4	27	VAL	O-C-N	-5.05	116.64	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fb	153	ILE	O-C-N	-5.05	117.19	123.10
1	fl	200	THR	OG1-CB-CG2	-5.05	99.19	109.30
1	fs	227	LYS	CB-CA-C	5.05	118.11	109.72
1	1x	129	ILE	N-CA-CB	-5.05	104.90	110.51
1	fx	121	ASN	CB-CA-C	5.05	118.94	110.55
1	fB	186	THR	CA-C-O	5.05	125.91	120.55
1	fS	182	LYS	O-C-N	-5.05	116.76	122.12
1	fS	229	ARG	NH1-CZ-NH2	5.05	125.87	119.30
1	fT	201	ILE	N-CA-C	5.05	115.20	110.30
1	fU	18	ARG	CA-C-N	5.05	127.30	120.38
1	fU	18	ARG	C-N-CA	5.05	127.30	120.38
1	fY	145	TYR	CB-CG-CD1	-5.05	113.22	120.80
1	fY	193	ASN	CA-C-N	5.05	128.05	120.87
1	fY	193	ASN	C-N-CA	5.05	128.05	120.87
1	g5	86	VAL	N-CA-C	5.05	116.91	109.63
1	c	45	GLU	N-CA-C	5.05	117.49	109.96
1	j	87	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	n	41	SER	CA-C-N	5.05	127.05	120.28
1	n	41	SER	C-N-CA	5.05	127.05	120.28
1	p	49	PRO	N-CA-C	5.05	122.88	112.47
1	q	8	GLY	O-C-N	-5.05	116.54	122.50
1	2	25	LYS	CA-C-O	5.05	125.91	120.55
1	v	148	THR	CA-C-O	5.05	125.94	120.43
1	w	75	GLU	CB-CG-CD	5.05	121.19	112.60
1	B	190	LEU	O-C-N	-5.05	116.76	122.12
1	C	40	PHE	CA-C-N	5.05	127.05	120.28
1	C	40	PHE	C-N-CA	5.05	127.05	120.28
1	F	179	GLN	N-CA-CB	5.05	117.55	110.12
1	H	62	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	H	197	ASP	CA-C-N	5.05	127.47	120.29
1	H	197	ASP	C-N-CA	5.05	127.47	120.29
1	P	111	LEU	N-CA-C	5.05	121.56	110.80
1	gp	10	MET	N-CA-CB	5.05	117.40	109.97
1	gZ	139	ASN	N-CA-C	5.05	117.52	111.71
1	h1	22	ALA	CB-CA-C	-5.05	102.26	110.85
1	h7	121	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	hc	161	PHE	O-C-N	-5.05	116.39	122.15
1	hf	69	LEU	N-CA-C	5.05	116.60	111.14
1	hj	171	THR	CB-CA-C	-5.05	102.73	110.81
1	hk	133	TRP	CA-CB-CG	5.05	123.20	113.60
1	1K	18	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	hC	152	ASP	N-CA-C	-5.05	106.36	112.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hE	41	SER	O-C-N	-5.05	116.78	122.03
1	hH	64	ALA	CA-C-N	5.05	127.47	120.29
1	hH	64	ALA	C-N-CA	5.05	127.47	120.29
1	hO	169	TYR	CA-CB-CG	-5.05	104.80	113.90
1	i2	141	ILE	CA-C-O	5.05	126.53	121.17
1	1P	82	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	iv	30	LYS	CA-C-O	5.05	125.44	119.48
1	iB	229	ARG	CG-CD-NE	-5.05	100.88	112.00
1	1R	131	LYS	CA-C-N	5.05	127.05	120.28
1	1R	131	LYS	C-N-CA	5.05	127.05	120.28
1	iI	87	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	j2	120	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	jy	6	LEU	N-CA-C	-5.05	107.17	113.38
1	jz	116	GLY	CA-C-N	5.05	129.22	120.58
1	jz	116	GLY	C-N-CA	5.05	129.22	120.58
1	jM	34	PRO	N-CA-CB	5.05	108.24	103.19
1	jX	10	MET	N-CA-C	5.05	117.67	110.24
1	k6	63	GLN	N-CA-C	5.05	116.79	111.28
1	kf	151	LEU	N-CA-C	5.05	117.52	111.71
1	ks	159	GLU	CA-C-O	-5.05	114.75	120.46
1	ku	209	ALA	CA-C-O	5.05	126.81	121.05
1	kw	204	ALA	O-C-N	-5.05	116.76	122.12
1	kE	57	ASN	O-C-N	-5.05	115.49	122.46
1	kE	205	LEU	CA-C-N	5.05	129.80	121.87
1	kE	205	LEU	C-N-CA	5.05	129.80	121.87
1	kR	162	ARG	CB-CG-CD	5.05	122.92	111.30
1	kW	226	HIS	O-C-N	-5.05	118.01	123.42
1	25	41	SER	CA-C-N	5.05	127.05	120.28
1	25	41	SER	C-N-CA	5.05	127.05	120.28
1	l0	87	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	l6	87	HIS	CB-CG-CD2	-5.05	124.63	131.20
1	l7	25	LYS	N-CA-CB	5.05	118.02	109.78
1	27	227	LYS	N-CA-CB	5.05	119.03	110.49
1	lv	91	ILE	CA-CB-CG1	5.05	118.99	110.40
1	29	1	PRO	CA-N-CD	-5.05	104.93	112.00
1	lF	68	MET	CG-SD-CE	-5.05	89.78	100.90
1	2g	126	VAL	N-CA-C	5.05	115.67	110.36
1	2z	79	GLU	CA-C-O	5.05	125.78	120.42
1	2J	207	PRO	CA-C-N	5.05	130.42	122.49
1	2J	207	PRO	C-N-CA	5.05	130.42	122.49
1	2L	167	ARG	N-CA-C	5.05	117.52	111.71
1	2N	78	ALA	CA-C-N	5.05	127.05	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2N	78	ALA	C-N-CA	5.05	127.05	120.28
1	2P	178	SER	N-CA-CB	5.05	117.45	110.17
1	2Q	114	GLN	O-C-N	-5.05	116.87	122.07
1	2Z	111	LEU	CA-C-N	5.05	127.99	120.31
1	2Z	111	LEU	C-N-CA	5.05	127.99	120.31
1	30	197	ASP	CA-C-O	5.05	125.85	120.24
1	3b	114	GLN	CA-C-O	5.05	125.91	120.55
1	3y	145	TYR	CA-C-O	-5.05	113.28	120.51
1	3G	67	GLN	N-CA-C	5.05	117.52	111.71
1	3T	70	LYS	CA-C-O	-5.05	114.16	119.97
1	45	192	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	4s	167	ARG	N-CA-C	5.05	117.68	111.82
1	4J	132	ARG	CD-NE-CZ	5.05	131.47	124.40
1	4Q	3	VAL	N-CA-C	-5.05	101.42	108.80
1	4Z	113	GLU	N-CA-CB	5.05	117.40	110.07
1	59	136	LEU	N-CA-CB	-5.05	102.69	110.12
1	5a	118	MET	N-CA-CB	-5.05	102.53	110.46
1	5b	1	PRO	O-C-N	-5.05	114.92	123.00
1	5b	186	THR	CA-C-N	5.05	127.05	120.28
1	5b	186	THR	C-N-CA	5.05	127.05	120.28
1	5E	143	ARG	CA-C-O	5.05	125.81	120.10
1	5G	173	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	5K	18	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	5S	147	PRO	O-C-N	-5.05	115.82	122.64
1	69	36	VAL	N-CA-C	5.05	117.41	111.09
1	6d	91	ILE	CB-CA-C	5.05	117.71	110.84
1	6f	129	ILE	CA-C-N	5.05	127.47	120.29
1	6f	129	ILE	C-N-CA	5.05	127.47	120.29
1	6r	152	ASP	N-CA-C	-5.05	106.70	112.92
1	6u	211	LEU	N-CA-CB	-5.05	102.69	110.12
1	71	106	GLY	O-C-N	-5.05	116.54	122.45
1	7y	75	GLU	O-C-N	-5.05	116.77	122.03
1	7A	120	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	7C	213	GLU	CA-C-N	5.05	127.99	120.31
1	7C	213	GLU	C-N-CA	5.05	127.99	120.31
1	7D	149	SER	CA-C-O	-5.05	116.05	121.56
1	8d	127	GLY	CA-C-N	5.05	127.05	120.28
1	8d	127	GLY	C-N-CA	5.05	127.05	120.28
1	8i	31	ALA	N-CA-C	5.05	117.67	110.24
1	8j	121	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	8B	13	GLN	O-C-N	-5.05	116.62	123.19
1	8N	98	GLU	CA-C-O	-5.05	115.95	120.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8W	108	THR	CA-C-O	-5.05	113.83	119.34
1	8Z	103	ASP	CA-C-N	5.05	127.60	120.42
1	8Z	103	ASP	C-N-CA	5.05	127.60	120.42
1	92	119	THR	CA-CB-OG1	5.05	117.18	109.60
1	94	98	GLU	O-C-N	-5.05	116.80	121.30
1	94	139	ASN	CB-CA-C	-5.05	102.40	110.79
1	9a	106	GLY	CA-C-N	5.05	127.01	120.44
1	9a	106	GLY	C-N-CA	5.05	127.01	120.44
1	9n	63	GLN	O-C-N	-5.05	116.05	122.27
1	9t	38	PRO	N-CA-CB	5.05	109.02	103.26
1	9K	172	LEU	N-CA-C	-5.05	105.77	111.28
1	9S	73	ILE	CB-CA-C	5.05	119.19	112.22
1	a2	77	ALA	O-C-N	-5.05	116.76	122.12
1	a8	175	GLU	N-CA-C	5.05	117.56	110.23
1	a9	207	PRO	CB-CA-C	5.05	119.90	111.56
1	am	170	LYS	O-C-N	5.05	127.48	122.12
1	an	17	PRO	N-CA-CB	5.05	108.89	103.33
1	ax	22	ALA	CA-C-N	5.05	127.99	120.31
1	ax	22	ALA	C-N-CA	5.05	127.99	120.31
1	aJ	164	TYR	N-CA-C	5.05	116.48	111.07
1	b3	140	LYS	CB-CA-C	-5.05	101.28	110.63
1	b5	206	GLY	CA-C-N	5.05	124.55	119.19
1	b5	206	GLY	C-N-CA	5.05	124.55	119.19
1	bH	20	LEU	CA-C-N	5.05	127.01	120.44
1	bH	20	LEU	C-N-CA	5.05	127.01	120.44
1	c7	226	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	1e	193	ASN	CB-CG-ND2	5.05	123.98	116.40
1	cD	35	GLU	N-CA-CB	-5.05	102.68	110.46
1	cL	111	LEU	N-CA-C	5.05	117.17	111.11
1	d5	165	VAL	CA-C-N	5.05	127.05	120.28
1	d5	165	VAL	C-N-CA	5.05	127.05	120.28
1	df	102	SER	CA-C-N	5.05	127.05	120.28
1	df	102	SER	C-N-CA	5.05	127.05	120.28
1	dl	203	LYS	N-CA-CB	5.05	117.34	110.01
1	dC	202	LEU	N-CA-CB	5.05	117.34	110.01
1	dI	116	GLY	O-C-N	-5.05	117.27	122.17
1	dJ	97	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	dS	172	LEU	N-CA-C	5.05	116.48	111.07
1	1o	185	MET	N-CA-C	5.05	117.52	111.71
1	ei	89	GLY	CA-C-N	5.05	126.16	119.84
1	ei	89	GLY	C-N-CA	5.05	126.16	119.84
1	eJ	169	TYR	CA-C-O	-5.05	115.52	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eS	107	THR	N-CA-CB	5.05	117.73	110.20
1	eX	153	ILE	N-CA-CB	5.05	116.23	110.72
1	f0	162	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	f2	51	ASP	O-C-N	-5.05	116.39	122.15
1	fc	179	GLN	CG-CD-NE2	5.05	123.98	116.40
1	fd	205	LEU	CA-C-N	5.05	129.80	121.87
1	fd	205	LEU	C-N-CA	5.05	129.80	121.87
1	fz	114	GLN	CA-C-N	5.05	127.38	120.46
1	fz	114	GLN	C-N-CA	5.05	127.38	120.46
1	fI	120	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	fV	66	MET	N-CA-C	5.05	117.68	111.82
1	g3	176	GLN	O-C-N	-5.05	115.80	122.42
1	j	205	LEU	CA-C-N	5.05	129.80	121.87
1	j	205	LEU	C-N-CA	5.05	129.80	121.87
1	v	49	PRO	N-CA-C	5.05	121.28	113.75
1	P	215	MET	N-CA-C	5.05	118.70	112.54
1	gk	158	LYS	O-C-N	-5.05	116.05	122.26
1	gr	189	LEU	N-CA-CB	5.05	118.15	110.42
1	gs	110	THR	N-CA-CB	5.05	118.54	110.46
1	gw	145	TYR	CA-C-N	5.05	127.52	120.65
1	gw	145	TYR	C-N-CA	5.05	127.52	120.65
1	gz	6	LEU	CA-C-O	5.05	128.40	122.14
1	gH	71	GLU	CA-C-O	5.05	125.78	120.42
1	gT	74	ASN	CA-CB-CG	-5.05	107.55	112.60
1	1G	96	MET	CA-C-O	-5.05	115.63	121.19
1	h0	180	GLU	O-C-N	-5.05	116.77	122.12
1	h1	205	LEU	N-CA-C	-5.05	107.12	113.28
1	h3	97	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	h9	42	ALA	O-C-N	-5.05	116.77	122.12
1	hc	35	GLU	O-C-N	-5.05	115.71	122.43
1	hf	55	MET	N-CA-C	5.05	117.17	111.11
1	hm	35	GLU	N-CA-CB	-5.05	102.00	110.39
1	hr	124	ILE	CA-C-N	-5.05	113.53	119.84
1	hr	124	ILE	C-N-CA	-5.05	113.53	119.84
1	hv	53	ASN	CA-CB-CG	-5.05	107.55	112.60
1	hR	229	ARG	CA-C-O	-5.05	116.05	121.56
1	hT	180	GLU	N-CA-C	5.05	116.79	111.28
1	hV	26	VAL	N-CA-CB	5.05	116.46	110.55
1	hY	213	GLU	CA-C-N	5.05	127.05	120.28
1	hY	213	GLU	C-N-CA	5.05	127.05	120.28
1	1N	37	ILE	N-CA-CB	-5.05	104.14	111.21
1	i5	186	THR	O-C-N	-5.05	114.91	122.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ij	141	ILE	O-C-N	5.05	126.97	121.87
1	ik	81	ASP	CA-CB-CG	-5.05	107.55	112.60
1	ik	160	PRO	CA-C-N	5.05	127.99	120.31
1	ik	160	PRO	C-N-CA	5.05	127.99	120.31
1	ix	140	LYS	CG-CD-CE	5.05	122.92	111.30
1	iA	21	ASN	CA-CB-CG	-5.05	107.55	112.60
1	iD	125	PRO	N-CA-CB	-5.05	97.94	103.25
1	j0	136	LEU	CA-C-O	-5.05	115.06	120.42
1	j5	120	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	j6	211	LEU	CA-C-N	5.05	127.36	120.54
1	j6	211	LEU	C-N-CA	5.05	127.36	120.54
1	jr	141	ILE	CB-CA-C	-5.05	105.50	111.97
1	jt	228	ALA	N-CA-C	5.05	117.42	110.35
1	ju	51	ASP	CB-CA-C	-5.05	102.26	110.85
1	jw	27	VAL	CA-C-O	-5.05	115.44	121.05
1	jx	87	HIS	CB-CA-C	5.05	117.97	109.89
1	jC	229	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	jK	14	ALA	CA-C-O	5.05	126.81	121.05
1	jN	84	HIS	CB-CG-CD2	-5.05	124.63	131.20
1	jS	87	HIS	O-C-N	-5.05	117.40	123.06
1	jU	45	GLU	CB-CA-C	-5.05	102.02	109.90
1	jV	196	PRO	N-CA-C	5.05	120.47	113.65
1	jX	61	GLY	O-C-N	-5.05	117.97	122.77
1	jZ	140	LYS	N-CA-C	5.05	116.47	111.07
1	1Z	7	GLN	CB-CG-CD	-5.05	104.01	112.60
1	k3	94	GLY	CA-C-O	5.05	128.42	122.76
1	k4	62	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	k7	209	ALA	N-CA-C	5.05	117.42	110.35
1	kf	146	SER	N-CA-C	5.05	116.75	109.48
1	ks	170	LYS	CA-C-N	5.05	127.05	120.28
1	ks	170	LYS	C-N-CA	5.05	127.05	120.28
1	kx	169	TYR	O-C-N	-5.05	116.77	122.12
1	kA	154	ARG	NH1-CZ-NH2	5.05	125.87	119.30
1	23	140	LYS	N-CA-C	5.05	116.79	111.28
1	kR	156	GLY	O-C-N	-5.05	116.72	121.77
1	kY	6	LEU	CA-C-N	5.05	128.38	120.75
1	kY	6	LEU	C-N-CA	5.05	128.38	120.75
1	l0	139	ASN	CA-C-N	5.05	127.01	120.44
1	l0	139	ASN	C-N-CA	5.05	127.01	120.44
1	l9	158	LYS	O-C-N	-5.05	115.42	122.19
1	la	199	LYS	CB-CA-C	-5.05	99.90	109.95
1	le	153	ILE	N-CA-CB	5.05	118.01	110.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ls	197	ASP	N-CA-C	5.05	117.17	111.11
1	lD	86	VAL	CA-C-O	5.05	126.99	121.13
1	lE	132	ARG	CA-C-O	5.05	125.78	119.97
1	lP	120	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	2E	191	VAL	CB-CA-C	-5.05	105.50	111.97
1	2G	107	THR	N-CA-CB	5.05	118.17	110.39
1	2M	120	HIS	N-CA-C	5.05	116.62	110.41
1	35	87	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	3a	62	HIS	CA-CB-CG	-5.05	108.75	113.80
1	3f	64	ALA	O-C-N	-5.05	115.56	122.33
1	3f	228	ALA	O-C-N	-5.05	116.76	121.56
1	3r	73	ILE	N-CA-C	5.05	115.27	110.42
1	3w	85	PRO	N-CA-C	5.05	119.13	111.15
1	3A	23	TRP	N-CA-C	5.05	116.79	111.28
1	3E	156	GLY	CA-C-O	-5.05	114.30	121.52
1	3E	218	CYS	CA-C-N	5.05	131.23	122.64
1	3E	218	CYS	C-N-CA	5.05	131.23	122.64
1	3K	106	GLY	N-CA-C	5.05	122.07	115.40
1	3Q	99	PRO	CB-CA-C	-5.05	105.22	111.64
1	3S	34	PRO	CA-C-N	5.05	127.30	120.38
1	3S	34	PRO	C-N-CA	5.05	127.30	120.38
1	3S	118	MET	CA-C-O	5.05	125.57	119.31
1	3X	212	GLU	N-CA-CB	5.05	117.47	109.94
1	3Y	104	ILE	CB-CA-C	5.05	118.96	112.14
1	48	24	VAL	CB-CA-C	5.05	118.96	112.14
1	4c	41	SER	CA-CB-OG	5.05	121.20	111.10
1	4d	117	TRP	CA-C-N	5.05	127.36	120.54
1	4d	117	TRP	C-N-CA	5.05	127.36	120.54
1	4e	221	VAL	N-CA-C	5.05	115.82	110.72
1	4i	154	ARG	NE-CZ-NH2	5.05	123.75	119.20
1	4q	165	VAL	N-CA-C	-5.05	104.67	111.44
1	4t	81	ASP	N-CA-C	5.05	116.47	111.07
1	4t	168	PHE	CA-CB-CG	5.05	118.85	113.80
1	4A	200	THR	CA-CB-CG2	-5.05	101.91	110.50
1	4B	228	ALA	CA-C-O	5.05	125.39	119.28
1	4Q	82	ARG	N-CA-CB	5.05	117.55	110.12
1	4S	194	ALA	CA-C-N	5.05	127.66	120.49
1	4S	194	ALA	C-N-CA	5.05	127.66	120.49
1	5f	9	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	5i	182	LYS	N-CA-C	5.05	116.79	111.28
1	5i	201	ILE	CA-CB-CG2	-5.05	101.91	110.50
1	5r	65	ALA	CA-C-O	5.05	125.91	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5u	180	GLU	CA-C-O	5.05	126.12	120.82
1	5A	87	HIS	O-C-N	-5.05	117.32	123.13
1	5A	148	THR	N-CA-C	-5.05	101.69	109.52
1	5E	107	THR	N-CA-C	-5.05	103.83	111.56
1	5G	115	ILE	CA-C-N	5.05	125.70	119.99
1	5G	115	ILE	C-N-CA	5.05	125.70	119.99
1	5H	34	PRO	N-CA-CB	-5.05	97.94	103.25
1	5K	195	ASN	N-CA-C	5.05	120.97	109.81
1	5Q	84	HIS	CA-C-N	5.05	125.04	119.89
1	5Q	84	HIS	C-N-CA	5.05	125.04	119.89
1	5T	219	GLN	CA-CB-CG	5.05	124.20	114.10
1	5X	132	ARG	N-CA-C	-5.05	105.86	112.23
1	68	195	ASN	CA-C-N	5.05	124.84	119.28
1	68	195	ASN	C-N-CA	5.05	124.84	119.28
1	6b	93	PRO	O-C-N	5.05	129.09	122.27
1	6g	65	ALA	N-CA-C	-5.05	105.85	111.36
1	6t	52	LEU	N-CA-C	5.05	116.79	111.28
1	6v	229	ARG	O-C-N	-5.05	117.05	123.01
1	6w	117	TRP	CG-CD2-CE3	-5.05	128.85	133.90
1	6N	32	PHE	N-CA-CB	5.05	117.94	110.56
1	70	215	MET	CA-C-N	5.05	127.36	120.54
1	70	215	MET	C-N-CA	5.05	127.36	120.54
1	71	84	HIS	CA-CB-CG	-5.05	108.75	113.80
1	71	225	GLY	CA-C-N	5.05	130.49	121.75
1	71	225	GLY	C-N-CA	5.05	130.49	121.75
1	7h	229	ARG	NE-CZ-NH2	-5.05	114.65	119.20
1	7j	54	THR	CA-C-N	5.05	127.46	120.29
1	7j	54	THR	C-N-CA	5.05	127.46	120.29
1	7j	172	LEU	N-CA-CB	5.05	117.55	110.12
1	7x	98	GLU	CA-C-N	5.05	124.81	119.76
1	7x	98	GLU	C-N-CA	5.05	124.81	119.76
1	7z	29	GLU	O-C-N	-5.05	116.39	122.15
1	7I	139	ASN	CA-C-N	5.05	127.05	120.28
1	7I	139	ASN	C-N-CA	5.05	127.05	120.28
1	7N	105	ALA	N-CA-CB	-5.05	102.00	110.39
1	7R	117	TRP	O-C-N	-5.05	116.87	122.07
1	81	122	PRO	N-CD-CG	5.05	109.86	103.80
1	8b	203	LYS	O-C-N	-5.05	115.56	122.33
1	8h	167	ARG	N-CA-C	5.05	116.78	111.28
1	8j	203	LYS	O-C-N	-5.05	116.77	122.12
1	8q	185	MET	CB-CA-C	-5.05	101.28	110.63
1	8u	27	VAL	N-CA-CB	-5.05	101.63	110.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8y	99	PRO	O-C-N	-5.05	116.75	123.01
1	8C	33	SER	O-C-N	-5.05	115.77	121.43
1	8C	108	THR	CA-C-O	5.05	125.33	119.32
1	8E	143	ARG	N-CA-C	5.05	116.48	111.07
1	8N	139	ASN	CB-CG-OD1	-5.05	110.70	120.80
1	8R	169	TYR	N-CA-C	5.05	116.87	111.36
1	8S	99	PRO	CA-C-N	5.05	127.88	120.71
1	8S	99	PRO	C-N-CA	5.05	127.88	120.71
1	8T	228	ALA	CA-C-N	-5.05	114.20	121.42
1	8T	228	ALA	C-N-CA	-5.05	114.20	121.42
1	8W	38	PRO	N-CD-CG	5.05	110.78	103.20
1	93	202	LEU	N-CA-C	5.05	117.52	111.71
1	95	120	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	9i	65	ALA	N-CA-C	5.05	116.78	111.28
1	9k	81	ASP	N-CA-CB	-5.05	102.44	110.22
1	9m	154	ARG	N-CA-C	-5.05	101.61	109.24
1	9u	210	THR	CA-CB-OG1	5.05	117.18	109.60
1	9w	230	VAL	CA-CB-CG1	5.05	118.99	110.40
1	9A	166	ASP	CA-C-O	5.05	125.91	120.55
1	9M	196	PRO	CA-C-N	5.05	127.46	120.29
1	9M	196	PRO	C-N-CA	5.05	127.46	120.29
1	9V	229	ARG	N-CA-C	5.05	117.96	110.48
1	a1	185	MET	N-CA-C	5.05	116.47	111.07
1	a4	110	THR	N-CA-C	5.05	117.05	110.43
1	a7	163	ASP	CA-C-N	5.05	127.36	120.54
1	a7	163	ASP	C-N-CA	5.05	127.36	120.54
1	ag	140	LYS	CA-C-O	5.05	125.91	120.55
1	am	84	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	am	157	PRO	CB-CA-C	5.05	116.79	110.27
1	ap	87	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	aR	201	ILE	CA-C-O	-5.05	115.82	121.17
1	aT	128	GLU	O-C-N	-5.05	116.39	122.15
1	b0	122	PRO	N-CA-CB	5.05	108.16	102.60
1	b6	84	HIS	CA-C-N	5.05	126.15	119.84
1	b6	84	HIS	C-N-CA	5.05	126.15	119.84
1	b7	151	LEU	CA-C-N	5.05	130.32	122.49
1	b7	151	LEU	C-N-CA	5.05	130.32	122.49
1	16	137	GLY	N-CA-C	-5.05	106.28	113.86
1	b9	204	ALA	N-CA-C	5.05	118.70	112.54
1	ba	32	PHE	N-CA-C	-5.05	106.43	112.59
1	be	43	LEU	CA-C-O	5.05	125.62	119.05
1	bi	84	HIS	O-C-N	-5.05	117.61	121.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bo	171	THR	N-CA-C	5.05	116.79	111.28
1	bv	129	ILE	CA-CB-CG2	-5.05	101.91	110.50
1	bw	20	LEU	N-CA-C	5.05	116.87	111.36
1	by	43	LEU	CA-C-O	5.05	126.31	120.90
1	bI	118	MET	CG-SD-CE	-5.05	89.79	100.90
1	1a	34	PRO	N-CA-C	5.05	120.41	113.84
1	bS	24	VAL	CA-C-N	5.05	127.05	120.28
1	bS	24	VAL	C-N-CA	5.05	127.05	120.28
1	bU	31	ALA	CB-CA-C	5.05	120.47	110.42
1	bX	93	PRO	O-C-N	5.05	129.31	122.89
1	bY	103	ASP	N-CA-C	-5.05	105.86	111.36
1	c2	176	GLN	CA-C-N	5.05	128.25	120.82
1	c2	176	GLN	C-N-CA	5.05	128.25	120.82
1	c7	6	LEU	CA-C-O	5.05	124.61	119.05
1	c8	114	GLN	CA-C-N	5.05	126.92	120.56
1	c8	114	GLN	C-N-CA	5.05	126.92	120.56
1	cc	119	THR	CA-C-O	5.05	125.19	119.18
1	ce	166	ASP	N-CA-C	5.05	117.17	111.11
1	cg	178	SER	N-CA-CB	5.05	117.44	110.17
1	ch	87	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	ch	113	GLU	CA-C-N	5.05	127.05	120.28
1	ch	113	GLU	C-N-CA	5.05	127.05	120.28
1	ci	224	PRO	CB-CA-C	-5.05	103.85	112.64
1	cj	14	ALA	N-CA-C	5.05	117.54	109.96
1	ct	85	PRO	CA-C-N	5.05	127.27	120.50
1	ct	85	PRO	C-N-CA	5.05	127.27	120.50
1	cD	229	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	cE	185	MET	N-CA-CB	5.05	117.55	110.12
1	cL	168	PHE	CA-CB-CG	-5.05	108.75	113.80
1	cN	164	TYR	CA-C-O	-5.05	115.20	120.55
1	cS	201	ILE	CB-CA-C	-5.05	105.50	111.97
1	dk	76	GLU	CA-C-N	5.05	127.05	120.28
1	dk	76	GLU	C-N-CA	5.05	127.05	120.28
1	1k	102	SER	N-CA-C	-5.05	106.28	112.90
1	do	164	TYR	CA-C-O	5.05	125.77	120.42
1	dy	4	GLN	CG-CD-OE1	-5.05	110.70	120.80
1	dF	4	GLN	N-CA-CB	5.05	119.03	110.49
1	dQ	170	LYS	CA-C-N	5.05	127.01	120.44
1	dQ	170	LYS	C-N-CA	5.05	127.01	120.44
1	dR	162	ARG	CA-C-O	5.05	125.90	120.55
1	dT	67	GLN	CG-CD-NE2	-5.05	108.82	116.40
1	e3	131	LYS	CA-C-O	-5.05	115.52	120.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e4	170	LYS	CA-C-O	5.05	125.91	120.55
1	ea	74	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	eb	150	ILE	CA-C-O	5.05	127.09	120.78
1	ei	4	GLN	N-CA-CB	-5.05	103.01	110.49
1	ek	130	TYR	O-C-N	-5.05	116.87	122.07
1	es	115	ILE	CA-C-O	-5.05	115.70	120.95
1	et	149	SER	CB-CA-C	-5.05	101.00	109.53
1	ew	226	HIS	CA-C-O	5.05	126.90	121.55
1	eD	141	ILE	CB-CA-C	-5.05	105.50	111.97
1	eE	208	ALA	CA-C-N	5.05	129.41	120.87
1	eE	208	ALA	C-N-CA	5.05	129.41	120.87
1	eI	135	ILE	O-C-N	-5.05	116.63	121.83
1	eP	4	GLN	CA-C-O	5.05	127.73	120.51
1	eQ	119	THR	CA-C-N	5.05	128.38	120.75
1	eQ	119	THR	C-N-CA	5.05	128.38	120.75
1	eZ	171	THR	N-CA-CB	5.05	117.64	110.16
1	f6	194	ALA	CA-C-N	5.05	128.33	120.60
1	f6	194	ALA	C-N-CA	5.05	128.33	120.60
1	f7	18	ARG	O-C-N	-5.05	116.64	122.09
1	fe	133	TRP	N-CA-C	5.05	116.79	111.28
1	fj	38	PRO	N-CA-C	-5.05	106.95	113.57
1	fl	35	GLU	N-CA-C	5.05	118.54	112.38
1	fr	148	THR	CA-CB-CG2	5.05	119.09	110.50
1	fP	153	ILE	N-CA-CB	5.05	116.90	110.13
1	fQ	174	ALA	CA-C-N	5.05	127.88	120.71
1	fQ	174	ALA	C-N-CA	5.05	127.88	120.71
1	fR	40	PHE	N-CA-C	-5.05	105.85	111.36
1	fS	83	LEU	N-CA-C	5.05	116.87	111.36
1	fX	62	HIS	ND1-CG-CD2	5.05	111.15	106.10
1	fY	133	TRP	CA-CB-CG	5.05	123.20	113.60
1	g0	52	LEU	CA-C-N	5.05	127.01	120.44
1	g0	52	LEU	C-N-CA	5.05	127.01	120.44
1	g2	114	GLN	CA-C-N	5.05	127.38	120.46
1	g2	114	GLN	C-N-CA	5.05	127.38	120.46
1	b	55	MET	O-C-N	5.05	127.48	122.08
1	b	190	LEU	O-C-N	-5.05	116.87	122.07
1	m	102	SER	N-CA-CB	-5.05	102.17	110.40
1	2	206	GLY	CA-C-N	5.05	125.05	119.90
1	2	206	GLY	C-N-CA	5.05	125.05	119.90
1	3	54	THR	CA-C-O	5.05	125.90	120.55
1	L	175	GLU	CB-CA-C	5.05	118.10	109.72
1	N	82	ARG	NE-CZ-NH2	-5.05	114.65	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7	159	GLU	CB-CA-C	5.05	117.35	109.42
1	g8	44	SER	O-C-N	-5.05	115.40	122.37
1	gd	66	MET	CG-SD-CE	-5.05	89.79	100.90
1	1E	199	LYS	CB-CA-C	-5.05	102.41	110.79
1	gJ	17	PRO	N-CA-C	-5.05	106.96	113.57
1	1F	50	GLN	CG-CD-NE2	5.05	123.97	116.40
1	gU	222	GLY	CA-C-O	5.05	127.33	122.28
1	gZ	35	GLU	CB-CG-CD	5.05	121.18	112.60
1	1I	136	LEU	N-CA-C	5.05	116.47	111.07
1	hj	173	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	1J	162	ARG	NH1-CZ-NH2	-5.05	112.74	119.30
1	hq	84	HIS	CA-C-N	5.05	125.84	119.98
1	hq	84	HIS	C-N-CA	5.05	125.84	119.98
1	hw	73	ILE	N-CA-C	5.05	115.77	110.62
1	hD	104	ILE	CA-C-N	5.05	129.15	120.72
1	hD	104	ILE	C-N-CA	5.05	129.15	120.72
1	hE	6	LEU	N-CA-CB	5.05	117.93	110.56
1	1M	138	LEU	CA-C-O	5.05	126.12	120.82
1	i0	118	MET	N-CA-C	5.05	116.78	111.28
1	i8	183	ASN	CA-CB-CG	5.05	117.65	112.60
1	i9	211	LEU	CB-CA-C	-5.05	102.10	110.68
1	1O	11	VAL	N-CA-CB	5.05	117.05	110.99
1	if	197	ASP	O-C-N	-5.05	116.77	122.12
1	il	117	TRP	CA-C-N	5.05	127.05	120.28
1	il	117	TRP	C-N-CA	5.05	127.05	120.28
1	im	130	TYR	CA-C-O	-5.05	115.07	120.42
1	iu	55	MET	N-CA-CB	5.05	117.46	109.94
1	iE	133	TRP	CB-CG-CD2	-5.05	119.73	126.80
1	1S	35	GLU	O-C-N	-5.05	115.49	122.46
1	1S	90	PRO	CA-C-N	5.05	128.75	121.18
1	1S	90	PRO	C-N-CA	5.05	128.75	121.18
1	1S	128	GLU	O-C-N	-5.05	116.77	122.12
1	iS	97	ARG	CG-CD-NE	-5.05	100.89	112.00
1	j0	227	LYS	CA-C-N	5.05	127.88	120.71
1	j0	227	LYS	C-N-CA	5.05	127.88	120.71
1	j7	173	ARG	NE-CZ-NH2	-5.05	114.66	119.20
1	j8	89	GLY	CA-C-N	5.05	126.15	119.84
1	j8	89	GLY	C-N-CA	5.05	126.15	119.84
1	jg	152	ASP	O-C-N	-5.05	116.14	122.35
1	ji	21	ASN	N-CA-C	5.05	116.86	111.36
1	ji	130	TYR	CA-C-N	5.05	127.30	120.38
1	ji	130	TYR	C-N-CA	5.05	127.30	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jw	58	THR	CA-CB-CG2	5.05	119.08	110.50
1	jw	125	PRO	CA-C-O	-5.05	117.49	121.38
1	jw	209	ALA	CA-C-N	5.05	130.16	120.97
1	jw	209	ALA	C-N-CA	5.05	130.16	120.97
1	jy	174	ALA	CA-C-O	5.05	125.78	119.97
1	jB	154	ARG	CG-CD-NE	-5.05	100.89	112.00
1	jJ	197	ASP	N-CA-C	5.05	116.47	111.07
1	jJ	221	VAL	O-C-N	-5.05	116.26	122.57
1	jK	59	VAL	CA-CB-CG1	5.05	118.98	110.40
1	jN	141	ILE	CA-C-N	5.05	127.11	120.60
1	jN	141	ILE	C-N-CA	5.05	127.11	120.60
1	jS	113	GLU	CA-CB-CG	5.05	124.20	114.10
1	km	195	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	kt	210	THR	CA-C-N	5.05	127.05	120.28
1	kt	210	THR	C-N-CA	5.05	127.05	120.28
1	kI	195	ASN	CB-CA-C	5.05	117.40	109.37
1	kI	216	THR	CA-CB-CG2	-5.05	101.92	110.50
1	kR	137	GLY	N-CA-C	5.05	121.44	113.86
1	kS	138	LEU	N-CA-C	5.05	116.78	111.28
1	kW	74	ASN	O-C-N	-5.05	116.31	122.22
1	l0	19	THR	OG1-CB-CG2	-5.05	99.20	109.30
1	l1	176	GLN	N-CA-CB	5.05	118.06	110.53
1	lg	173	ARG	O-C-N	-5.05	116.77	122.12
1	lh	82	ARG	O-C-N	-5.05	116.06	122.27
1	lo	168	PHE	CB-CG-CD2	-5.05	112.11	120.70
1	lr	212	GLU	O-C-N	5.05	127.47	122.12
1	lA	100	ARG	CG-CD-NE	-5.05	100.89	112.00
1	lE	37	ILE	N-CA-C	5.05	118.41	112.35
1	lG	165	VAL	N-CA-CB	5.05	116.46	110.55
1	2q	229	ARG	N-CA-C	5.05	118.56	111.74
1	2z	121	ASN	CB-CA-C	5.05	117.20	110.13
1	2E	167	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	2H	189	LEU	O-C-N	-5.05	115.36	121.92
1	2W	61	GLY	O-C-N	-5.05	117.16	123.12
1	37	162	ARG	N-CA-CB	5.05	117.64	110.06
1	38	13	GLN	N-CA-C	-5.05	101.52	109.50
1	3c	105	ALA	CB-CA-C	-5.05	100.92	110.01
1	3g	84	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	3k	37	ILE	N-CA-C	5.05	119.79	108.88
1	3r	59	VAL	N-CA-C	5.05	115.51	108.84
1	3v	154	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	3Q	26	VAL	O-C-N	-5.05	116.63	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	119	THR	CA-C-O	5.05	126.06	119.95
1	3Y	179	GLN	CA-C-N	5.05	127.05	120.28
1	3Y	179	GLN	C-N-CA	5.05	127.05	120.28
1	48	201	ILE	O-C-N	-5.05	116.09	121.80
1	48	213	GLU	CA-C-N	5.05	127.00	120.44
1	48	213	GLU	C-N-CA	5.05	127.00	120.44
1	4b	58	THR	CA-CB-OG1	5.05	117.17	109.60
1	4b	102	SER	N-CA-C	5.05	118.70	112.54
1	4d	106	GLY	O-C-N	5.05	128.80	122.39
1	4f	104	ILE	N-CA-C	5.05	115.77	110.62
1	4i	112	GLN	CG-CD-OE1	5.05	130.90	120.80
1	4k	192	GLN	CA-C-O	-5.05	114.55	120.20
1	4p	155	GLN	N-CA-CB	5.05	117.78	109.95
1	4q	132	ARG	N-CA-CB	5.05	117.33	110.01
1	4y	67	GLN	N-CA-C	5.05	116.78	111.28
1	4A	206	GLY	O-C-N	-5.05	116.72	121.77
1	4B	195	ASN	CA-C-N	5.05	124.54	119.19
1	4B	195	ASN	C-N-CA	5.05	124.54	119.19
1	4R	95	GLN	O-C-N	-5.05	116.60	122.81
1	4S	13	GLN	CA-CB-CG	5.05	124.20	114.10
1	4V	151	LEU	N-CA-C	5.05	119.15	112.89
1	4W	90	PRO	CA-C-O	5.05	127.06	121.36
1	4Z	152	ASP	CB-CA-C	-5.05	102.03	110.56
1	58	164	TYR	CB-CG-CD2	5.05	128.37	120.80
1	5d	205	LEU	CA-C-N	5.05	129.80	121.87
1	5d	205	LEU	C-N-CA	5.05	129.80	121.87
1	5e	97	ARG	NE-CZ-NH2	5.05	123.74	119.20
1	5i	216	THR	N-CA-CB	5.05	117.63	110.16
1	5j	103	ASP	CA-C-N	5.05	127.59	120.42
1	5j	103	ASP	C-N-CA	5.05	127.59	120.42
1	5n	35	GLU	CB-CG-CD	5.05	121.19	112.60
1	5p	149	SER	O-C-N	-5.05	117.23	123.44
1	5v	223	GLY	CA-C-O	-5.05	114.30	121.52
1	5v	229	ARG	NE-CZ-NH1	-5.05	116.45	121.50
1	5I	165	VAL	CA-C-N	5.05	127.00	120.44
1	5I	165	VAL	C-N-CA	5.05	127.00	120.44
1	5T	50	GLN	CA-C-O	5.05	125.77	120.42
1	5Z	74	ASN	CA-C-N	5.05	127.05	120.28
1	5Z	74	ASN	C-N-CA	5.05	127.05	120.28
1	60	117	TRP	CA-C-N	5.05	127.46	120.29
1	60	117	TRP	C-N-CA	5.05	127.46	120.29
1	61	72	THR	O-C-N	-5.05	116.77	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	63	230	VAL	O-C-N	-5.05	117.19	123.10
1	66	111	LEU	O-C-N	-5.05	116.30	122.11
1	6g	32	PHE	CG-CD2-CE2	5.05	129.28	120.70
1	6y	66	MET	CA-C-N	5.05	127.00	120.44
1	6y	66	MET	C-N-CA	5.05	127.00	120.44
1	6F	184	TRP	CA-C-N	5.05	127.05	120.28
1	6F	184	TRP	C-N-CA	5.05	127.05	120.28
1	6H	117	TRP	CE3-CZ3-CH2	-5.05	114.54	121.10
1	71	87	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	72	33	SER	CA-C-O	-5.05	116.32	120.71
1	7i	57	ASN	CA-CB-CG	-5.05	107.55	112.60
1	7l	126	VAL	N-CA-CB	5.05	118.16	110.58
1	7u	94	GLY	CA-C-O	5.05	124.39	119.04
1	7w	205	LEU	CA-C-O	5.05	126.08	120.63
1	7A	196	PRO	CA-C-N	5.05	127.31	120.65
1	7A	196	PRO	C-N-CA	5.05	127.31	120.65
1	7B	125	PRO	CA-C-N	5.05	127.38	120.46
1	7B	125	PRO	C-N-CA	5.05	127.38	120.46
1	7D	53	ASN	CA-C-O	5.05	125.90	120.55
1	7F	203	LYS	O-C-N	-5.05	116.77	122.12
1	7M	62	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	7S	135	ILE	CA-CB-CG1	5.05	118.98	110.40
1	86	194	ALA	CA-C-O	-5.05	115.64	121.19
1	8t	51	ASP	CA-C-N	5.05	127.01	120.44
1	8t	51	ASP	C-N-CA	5.05	127.01	120.44
1	8v	49	PRO	O-C-N	-5.05	115.43	122.30
1	8B	201	ILE	O-C-N	5.05	126.99	121.94
1	8H	17	PRO	N-CA-C	-5.05	106.96	113.57
1	8Z	120	HIS	CB-CA-C	5.05	118.28	109.65
1	96	49	PRO	N-CA-CB	5.05	108.55	103.25
1	9h	41	SER	N-CA-C	5.05	116.78	111.28
1	9h	120	HIS	CA-CB-CG	5.05	118.85	113.80
1	9j	228	ALA	N-CA-C	5.05	117.36	110.24
1	9x	57	ASN	N-CA-C	5.05	116.78	111.28
1	9x	120	HIS	CA-CB-CG	5.05	118.85	113.80
1	9x	156	GLY	CA-C-N	5.05	124.35	118.85
1	9x	156	GLY	C-N-CA	5.05	124.35	118.85
1	9G	99	PRO	CA-C-N	5.05	131.18	121.54
1	9G	99	PRO	C-N-CA	5.05	131.18	121.54
1	9I	71	GLU	N-CA-C	5.05	117.17	111.11
1	9L	180	GLU	CA-C-N	5.05	126.92	120.56
1	9L	180	GLU	C-N-CA	5.05	126.92	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9U	139	ASN	CA-C-N	5.05	127.05	120.28
1	9U	139	ASN	C-N-CA	5.05	127.05	120.28
1	9V	131	LYS	N-CA-CB	5.05	117.54	110.12
1	a9	211	LEU	N-CA-C	5.05	116.78	111.28
1	ad	10	MET	CG-SD-CE	-5.05	89.79	100.90
1	af	42	ALA	N-CA-C	5.05	116.47	111.07
1	ak	84	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	aq	84	HIS	ND1-CG-CD2	-5.05	101.05	106.10
1	13	153	ILE	O-C-N	-5.05	117.99	123.14
1	aL	211	LEU	CA-C-N	5.05	127.05	120.28
1	aL	211	LEU	C-N-CA	5.05	127.05	120.28
1	aO	120	HIS	O-C-N	-5.05	115.87	122.59
1	aX	11	VAL	CA-CB-CG2	-5.05	101.81	110.40
1	aY	7	GLN	O-C-N	-5.05	116.13	122.24
1	aZ	80	TRP	CA-C-O	-5.05	115.20	120.55
1	b4	213	GLU	CA-C-N	5.05	127.05	120.28
1	b4	213	GLU	C-N-CA	5.05	127.05	120.28
1	be	135	ILE	CA-C-O	-5.05	116.02	121.27
1	bi	152	ASP	CA-C-O	5.05	125.44	119.48
1	bs	138	LEU	N-CA-CB	5.05	117.54	110.12
1	bw	21	ASN	CA-C-O	5.05	125.77	120.42
1	by	56	LEU	CA-C-O	5.05	126.12	120.82
1	bA	185	MET	CA-C-O	5.05	126.12	120.82
1	bC	135	ILE	N-CA-CB	5.05	117.41	110.54
1	bL	7	GLN	CA-C-N	5.05	125.56	120.00
1	bL	7	GLN	C-N-CA	5.05	125.56	120.00
1	bO	114	GLN	CA-C-N	5.05	127.59	120.42
1	bO	114	GLN	C-N-CA	5.05	127.59	120.42
1	bT	62	HIS	ND1-CG-CD2	5.05	111.15	106.10
1	c2	185	MET	CA-C-O	5.05	125.81	120.10
1	c4	129	ILE	O-C-N	-5.05	116.97	121.87
1	c8	123	PRO	N-CA-CB	5.05	107.74	103.35
1	ca	56	LEU	CA-C-O	5.05	125.90	120.70
1	cc	159	GLU	CA-C-N	5.05	125.32	119.92
1	cc	159	GLU	C-N-CA	5.05	125.32	119.92
1	cg	62	HIS	ND1-CG-CD2	5.05	111.15	106.10
1	ck	206	GLY	CA-C-N	5.05	126.06	120.45
1	ck	206	GLY	C-N-CA	5.05	126.06	120.45
1	cn	86	VAL	CA-C-N	5.05	129.29	121.26
1	cn	86	VAL	C-N-CA	5.05	129.29	121.26
1	cq	225	GLY	CA-C-O	5.05	124.71	119.06
1	cs	10	MET	CG-SD-CE	-5.05	89.79	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cx	196	PRO	N-CA-C	5.05	121.27	113.75
1	cC	71	GLU	CA-C-N	5.05	127.36	120.54
1	cC	71	GLU	C-N-CA	5.05	127.36	120.54
1	cD	25	LYS	CA-C-O	5.05	125.77	120.42
1	cI	210	THR	CA-C-O	5.05	127.42	121.87
1	1g	16	SER	CB-CA-C	-5.05	101.34	109.67
1	cO	168	PHE	CA-C-N	5.05	127.05	120.28
1	cO	168	PHE	C-N-CA	5.05	127.05	120.28
1	cP	166	ASP	CA-C-O	5.05	126.12	120.82
1	d1	80	TRP	CA-C-N	5.05	129.98	121.14
1	d1	80	TRP	C-N-CA	5.05	129.98	121.14
1	d6	146	SER	CA-C-N	5.05	126.15	119.84
1	d6	146	SER	C-N-CA	5.05	126.15	119.84
1	dj	70	LYS	CA-C-N	5.05	127.05	120.28
1	dj	70	LYS	C-N-CA	5.05	127.05	120.28
1	dv	138	LEU	O-C-N	-5.05	116.77	122.12
1	dE	214	MET	O-C-N	-5.05	116.68	122.08
1	1m	129	ILE	CA-C-O	-5.05	115.70	120.95
1	dP	162	ARG	CA-C-O	-5.05	113.29	120.51
1	dS	25	LYS	CA-C-O	-5.05	115.50	120.90
1	dU	84	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	dU	99	PRO	N-CA-C	5.05	119.14	111.11
1	dY	166	ASP	CB-CA-C	5.05	119.17	110.79
1	e0	165	VAL	N-CA-C	5.05	115.82	110.72
1	1o	173	ARG	N-CA-C	5.05	116.78	111.28
1	e4	207	PRO	O-C-N	-5.05	115.28	122.35
1	e8	151	LEU	CB-CA-C	5.05	118.81	110.88
1	eb	216	THR	CA-CB-OG1	5.05	117.17	109.60
1	ef	184	TRP	O-C-N	-5.05	116.39	122.15
1	ef	201	ILE	CB-CA-C	-5.05	105.25	112.22
1	ej	23	TRP	CZ3-CH2-CZ2	5.05	128.06	121.50
1	ej	169	TYR	CB-CG-CD2	5.05	128.37	120.80
1	ek	136	LEU	CA-C-O	-5.05	114.16	119.97
1	1q	214	MET	CA-C-N	5.05	129.15	120.72
1	1q	214	MET	C-N-CA	5.05	129.15	120.72
1	eq	87	HIS	CB-CG-ND1	5.05	130.28	122.70
1	eq	112	GLN	CB-CG-CD	5.05	121.19	112.60
1	es	101	GLY	O-C-N	5.05	127.59	122.24
1	ew	2	ILE	CB-CA-C	5.05	118.94	111.26
1	ey	200	THR	CA-C-N	5.05	126.92	120.56
1	ey	200	THR	C-N-CA	5.05	126.92	120.56
1	eB	63	GLN	N-CA-C	5.05	116.86	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eC	142	VAL	N-CA-C	5.05	115.77	110.62
1	eK	146	SER	O-C-N	-5.05	116.66	121.20
1	eN	167	ARG	CG-CD-NE	-5.05	100.89	112.00
1	eT	65	ALA	CA-C-N	5.05	127.05	120.28
1	eT	65	ALA	C-N-CA	5.05	127.05	120.28
1	eW	132	ARG	O-C-N	-5.05	116.39	122.15
1	f5	167	ARG	CA-C-O	5.05	126.30	120.90
1	f8	78	ALA	O-C-N	-5.05	116.77	122.12
1	fc	39	MET	N-CA-CB	-5.05	102.70	110.12
1	fl	126	VAL	CA-C-O	-5.05	115.14	120.64
1	fv	62	HIS	O-C-N	-5.05	116.52	122.58
1	fw	97	ARG	NH1-CZ-NH2	-5.05	112.73	119.30
1	fD	182	LYS	CA-C-N	5.05	127.05	120.28
1	fD	182	LYS	C-N-CA	5.05	127.05	120.28
1	fK	111	LEU	N-CA-C	5.05	117.52	111.71
1	fT	3	VAL	CA-CB-CG1	-5.05	101.81	110.40
1	g4	143	ARG	N-CA-CB	5.05	117.33	110.01
1	g4	180	GLU	CA-C-N	5.05	127.59	120.42
1	g4	180	GLU	C-N-CA	5.05	127.59	120.42
1	g7	167	ARG	CA-C-O	5.05	125.85	120.24
1	c	8	GLY	N-CA-C	-5.05	107.84	115.32
1	c	54	THR	N-CA-CB	5.05	117.54	110.12
1	d	139	ASN	CA-CB-CG	-5.05	107.55	112.60
1	e	223	GLY	N-CA-C	5.05	122.64	112.34
1	h	62	HIS	CG-CD2-NE2	5.05	112.25	107.20
1	h	136	LEU	CA-C-N	5.05	125.55	120.00
1	h	136	LEU	C-N-CA	5.05	125.55	120.00
1	n	178	SER	O-C-N	-5.05	117.49	123.25
1	u	138	LEU	N-CA-CB	5.05	117.46	109.94
1	E	202	LEU	CA-C-O	5.05	125.78	119.97
1	F	10	MET	O-C-N	-5.05	117.32	123.13
1	P	189	LEU	O-C-N	5.05	129.31	122.59
1	W	184	TRP	CH2-CZ2-CE2	5.05	124.06	117.50
1	7	127	GLY	CA-C-N	5.05	127.46	120.29
1	7	127	GLY	C-N-CA	5.05	127.46	120.29
1	gH	186	THR	N-CA-CB	5.05	117.63	110.16
1	gJ	2	ILE	CA-CB-CG1	5.05	118.98	110.40
1	gN	87	HIS	CA-C-O	5.05	126.40	120.80
1	1G	12	HIS	N-CA-C	5.05	117.84	109.46
1	hf	135	ILE	N-CA-C	5.05	115.77	110.62
1	hm	57	ASN	CA-CB-CG	-5.05	107.55	112.60
1	hs	78	ALA	CB-CA-C	5.05	119.17	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hW	62	HIS	CA-C-O	5.05	127.24	120.98
1	1O	179	GLN	O-C-N	-5.05	116.77	122.12
1	in	184	TRP	CD2-CE2-CZ2	-5.05	117.35	122.40
1	iw	49	PRO	N-CA-CB	-5.05	97.94	103.39
1	iK	122	PRO	CA-C-N	5.05	125.05	119.90
1	iK	122	PRO	C-N-CA	5.05	125.05	119.90
1	iR	80	TRP	N-CA-C	5.05	116.47	111.07
1	iV	229	ARG	CA-C-O	5.05	125.87	120.32
1	j3	217	ALA	CA-C-N	5.05	129.99	122.82
1	j3	217	ALA	C-N-CA	5.05	129.99	122.82
1	jg	110	THR	CA-C-N	5.05	127.00	120.44
1	jg	110	THR	C-N-CA	5.05	127.00	120.44
1	jP	44	SER	N-CA-C	5.05	118.99	111.87
1	jQ	32	PHE	O-C-N	-5.05	116.40	122.71
1	jW	180	GLU	N-CA-CB	-5.05	102.70	110.12
1	k1	62	HIS	CB-CG-ND1	-5.05	115.13	122.70
1	k6	154	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	k9	16	SER	CA-CB-OG	5.05	121.20	111.10
1	ke	44	SER	O-C-N	-5.05	116.24	122.25
1	kg	215	MET	CG-SD-CE	-5.05	89.80	100.90
1	kQ	122	PRO	CA-C-N	5.05	124.98	119.78
1	kQ	122	PRO	C-N-CA	5.05	124.98	119.78
1	25	191	VAL	CA-CB-CG1	5.05	118.98	110.40
1	lf	176	GLN	CA-C-O	5.05	125.26	119.35
1	lg	33	SER	N-CA-C	-5.05	102.52	110.14
1	lq	162	ARG	N-CA-C	5.05	119.70	111.37
1	lx	159	GLU	CB-CA-C	5.05	117.59	109.41
1	lz	145	TYR	O-C-N	-5.05	115.40	122.37
1	lG	12	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	lG	57	ASN	O-C-N	-5.05	115.49	122.46
1	lG	222	GLY	O-C-N	-5.05	116.14	122.70
1	2b	216	THR	CA-C-N	5.05	131.18	121.54
1	2b	216	THR	C-N-CA	5.05	131.18	121.54
1	2v	21	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	3y	88	ALA	N-CA-C	5.05	117.55	110.23
1	3L	184	TRP	CB-CG-CD1	-5.05	119.33	126.90
1	3W	229	ARG	NH1-CZ-NH2	-5.05	112.74	119.30
1	40	67	GLN	CA-C-N	5.05	127.36	120.54
1	40	67	GLN	C-N-CA	5.05	127.36	120.54
1	48	184	TRP	CZ3-CH2-CZ2	-5.05	114.94	121.50
1	4g	51	ASP	CA-CB-CG	-5.05	107.55	112.60
1	4h	31	ALA	N-CA-CB	5.05	119.02	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	159	GLU	CA-C-O	-5.05	115.27	119.76
1	4P	199	LYS	N-CA-C	5.05	117.17	111.11
1	4Z	212	GLU	N-CA-C	5.05	116.78	111.28
1	5m	66	MET	N-CA-C	-5.05	105.86	111.36
1	62	124	ILE	N-CA-CB	5.05	117.27	111.31
1	63	85	PRO	N-CA-CB	5.05	107.56	103.32
1	6s	32	PHE	CA-C-N	5.05	130.34	122.26
1	6s	32	PHE	C-N-CA	5.05	130.34	122.26
1	6H	140	LYS	CB-CA-C	-5.05	102.41	110.79
1	75	120	HIS	CB-CG-CD2	-5.05	124.64	131.20
1	7o	169	TYR	CA-C-N	5.05	127.04	120.28
1	7o	169	TYR	C-N-CA	5.05	127.04	120.28
1	7u	221	VAL	CA-CB-CG2	-5.05	101.82	110.40
1	7y	110	THR	N-CA-C	5.05	116.62	110.41
1	7Z	18	ARG	O-C-N	5.05	127.91	122.15
1	81	156	GLY	O-C-N	-5.05	116.72	121.77
1	8j	135	ILE	N-CA-C	5.05	115.66	110.36
1	8C	59	VAL	CA-C-N	5.05	131.30	121.41
1	8C	59	VAL	C-N-CA	5.05	131.30	121.41
1	8H	218	CYS	O-C-N	-5.05	115.88	122.59
1	8L	91	ILE	CA-CB-CG2	5.05	119.08	110.50
1	97	19	THR	CA-C-N	5.05	127.00	120.44
1	97	19	THR	C-N-CA	5.05	127.00	120.44
1	97	193	ASN	CA-C-O	5.05	125.14	119.18
1	9c	188	THR	CA-C-N	5.05	127.04	120.28
1	9c	188	THR	C-N-CA	5.05	127.04	120.28
1	9f	222	GLY	O-C-N	-5.05	117.35	122.70
1	9o	122	PRO	CA-C-N	5.05	124.98	119.78
1	9o	122	PRO	C-N-CA	5.05	124.98	119.78
1	9A	104	ILE	N-CA-C	5.05	115.82	110.72
1	9J	199	LYS	CA-C-N	5.05	127.04	120.28
1	9J	199	LYS	C-N-CA	5.05	127.04	120.28
1	9R	16	SER	CB-CA-C	-5.05	101.54	109.11
1	a4	96	MET	N-CA-C	5.05	117.62	110.10
1	aa	201	ILE	N-CA-CB	5.05	118.15	110.58
1	ar	74	ASN	CA-C-O	5.05	126.12	120.82
1	ax	100	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	aX	21	ASN	CA-C-N	5.05	127.30	120.38
1	aX	21	ASN	C-N-CA	5.05	127.30	120.38
1	aX	168	PHE	N-CA-CB	-5.05	102.70	110.12
1	19	159	GLU	CB-CA-C	5.05	117.40	109.27
1	bM	23	TRP	CE2-CD2-CG	-5.05	101.14	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bT	19	THR	CA-C-N	5.05	127.46	120.29
1	bT	19	THR	C-N-CA	5.05	127.46	120.29
1	bX	217	ALA	N-CA-C	5.05	117.19	110.53
1	c0	5	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	ch	25	LYS	CA-C-N	5.05	126.92	120.56
1	ch	25	LYS	C-N-CA	5.05	126.92	120.56
1	cs	163	ASP	CA-CB-CG	-5.05	107.55	112.60
1	cv	217	ALA	N-CA-C	5.05	117.19	110.53
1	cy	36	VAL	CA-CB-CG2	-5.05	101.82	110.40
1	cQ	124	ILE	N-CA-C	5.05	112.15	107.56
1	d2	7	GLN	O-C-N	-5.05	116.60	122.81
1	1i	173	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	db	95	GLN	N-CA-C	-5.05	101.62	109.24
1	dE	72	THR	CA-CB-CG2	5.05	119.08	110.50
1	dV	165	VAL	O-C-N	-5.05	116.63	121.83
1	1q	21	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	ep	58	THR	N-CA-CB	5.05	118.77	110.39
1	eF	67	GLN	O-C-N	-5.05	116.77	122.12
1	eX	230	VAL	CA-C-N	5.05	130.79	121.70
1	eX	230	VAL	C-N-CA	5.05	130.79	121.70
1	f3	205	LEU	N-CA-C	5.05	118.21	111.75
1	f7	150	ILE	N-CA-C	5.05	115.27	110.42
1	f9	115	ILE	CA-C-N	5.05	131.30	121.41
1	f9	115	ILE	C-N-CA	5.05	131.30	121.41
1	f9	120	HIS	N-CA-C	5.05	121.55	110.80
1	ft	34	PRO	CA-C-N	5.05	129.97	121.14
1	ft	34	PRO	C-N-CA	5.05	129.97	121.14
1	fA	36	VAL	N-CA-CB	5.05	117.41	110.54
1	fH	180	GLU	CA-C-O	5.05	125.77	120.42
1	k	227	LYS	N-CA-CB	5.05	117.56	110.24
1	v	121	ASN	CA-CB-CG	-5.05	107.55	112.60
1	F	58	THR	CA-CB-OG1	5.05	117.17	109.60
1	H	195	ASN	O-C-N	5.05	127.08	121.43
1	V	103	ASP	CA-C-O	5.05	126.12	120.82
1	gc	162	ARG	N-CA-C	5.05	117.51	111.71
1	gm	26	VAL	N-CA-C	5.05	115.26	110.42
1	gn	29	GLU	O-C-N	-5.05	116.64	122.09
1	gr	22	ALA	N-CA-CB	5.05	117.54	110.12
1	1D	225	GLY	CA-C-O	5.05	124.52	119.27
1	1E	186	THR	CA-C-O	-5.05	115.07	120.42
1	gC	170	LYS	O-C-N	5.05	127.27	122.07
1	gJ	78	ALA	N-CA-C	5.05	117.17	111.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gQ	176	GLN	CA-C-N	5.05	129.93	120.95
1	gQ	176	GLN	C-N-CA	5.05	129.93	120.95
1	1H	172	LEU	N-CA-C	5.05	117.67	111.82
1	he	222	GLY	N-CA-C	-5.05	107.64	115.67
1	1J	140	LYS	CA-C-N	5.05	127.38	120.46
1	1J	140	LYS	C-N-CA	5.05	127.38	120.46
1	hC	78	ALA	CA-C-N	5.05	127.04	120.28
1	hC	78	ALA	C-N-CA	5.05	127.04	120.28
1	hC	125	PRO	CA-C-N	5.05	127.11	120.60
1	hC	125	PRO	C-N-CA	5.05	127.11	120.60
1	hF	121	ASN	CA-C-O	-5.05	114.54	119.69
1	hO	216	THR	CA-CB-OG1	5.05	117.17	109.60
1	hR	29	GLU	N-CA-C	5.05	116.59	111.14
1	i6	159	GLU	N-CA-C	5.05	118.41	109.58
1	i8	19	THR	O-C-N	-5.05	116.77	122.12
1	i8	67	GLN	CB-CG-CD	5.05	121.18	112.60
1	id	59	VAL	N-CA-C	5.05	114.88	108.12
1	ij	57	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	im	229	ARG	N-CA-C	5.05	117.42	110.35
1	io	74	ASN	N-CA-CB	5.05	118.10	110.28
1	ip	204	ALA	N-CA-C	5.05	116.47	111.07
1	is	80	TRP	CB-CG-CD1	5.05	134.47	126.90
1	iy	5	ASN	N-CA-C	5.05	116.86	111.36
1	iB	41	SER	O-C-N	-5.05	116.64	122.09
1	iD	142	VAL	CB-CA-C	-5.05	104.08	112.26
1	iF	185	MET	CG-SD-CE	-5.05	89.80	100.90
1	1R	229	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	iL	195	ASN	N-CA-C	5.05	115.41	109.60
1	iN	196	PRO	N-CA-CB	5.05	108.55	103.25
1	1S	230	VAL	O-C-N	-5.05	117.88	123.18
1	iT	174	ALA	CA-C-N	5.05	128.64	121.42
1	iT	174	ALA	C-N-CA	5.05	128.64	121.42
1	iU	189	LEU	CA-C-O	-5.05	114.40	120.10
1	iV	166	ASP	CA-C-N	5.05	127.04	120.28
1	iV	166	ASP	C-N-CA	5.05	127.04	120.28
1	j7	16	SER	N-CA-CB	5.05	117.99	110.02
1	j9	1	PRO	CA-C-N	5.05	129.36	122.90
1	j9	1	PRO	C-N-CA	5.05	129.36	122.90
1	ji	80	TRP	CE2-CD2-CE3	5.05	123.85	118.80
1	jl	62	HIS	CA-C-O	5.05	127.69	121.84
1	jp	22	ALA	CB-CA-C	-5.05	102.41	110.79
1	jt	40	PHE	CA-C-O	5.05	125.80	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jt	41	SER	CA-C-N	5.05	127.46	120.29
1	jt	41	SER	C-N-CA	5.05	127.46	120.29
1	ju	166	ASP	CA-C-O	-5.05	115.52	120.82
1	jw	136	LEU	N-CA-CB	5.05	117.63	110.06
1	jz	40	PHE	CA-C-O	5.05	125.90	120.55
1	jz	217	ALA	CA-C-N	5.05	131.18	121.54
1	jz	217	ALA	C-N-CA	5.05	131.18	121.54
1	jV	145	TYR	CB-CG-CD2	-5.05	113.23	120.80
1	k7	107	THR	N-CA-C	5.05	118.59	112.23
1	kb	127	GLY	O-C-N	5.05	129.26	122.70
1	kd	149	SER	O-C-N	-5.05	117.47	123.22
1	kd	172	LEU	CA-C-O	5.05	125.57	119.31
1	kl	68	MET	CA-C-N	5.05	127.00	120.44
1	kl	68	MET	C-N-CA	5.05	127.00	120.44
1	kn	96	MET	N-CA-CB	5.05	119.58	111.91
1	kr	181	VAL	CA-CB-CG1	5.05	118.98	110.40
1	22	133	TRP	N-CA-CB	5.05	117.63	110.06
1	kD	88	ALA	CA-C-N	5.05	129.79	121.87
1	kD	88	ALA	C-N-CA	5.05	129.79	121.87
1	23	230	VAL	CB-CA-C	5.05	118.43	111.97
1	kE	51	ASP	O-C-N	-5.05	116.64	122.09
1	kE	126	VAL	N-CA-C	5.05	115.77	110.62
1	kE	161	PHE	N-CA-C	5.05	118.20	111.24
1	kK	67	GLN	N-CA-C	5.05	116.47	111.07
1	kO	14	ALA	N-CA-CB	5.05	117.39	109.97
1	kU	79	GLU	CA-C-O	-5.05	115.50	120.70
1	26	33	SER	O-C-N	-5.05	115.78	121.43
1	26	151	LEU	CA-C-O	5.05	125.39	119.28
1	lg	127	GLY	CA-C-N	5.05	127.04	120.28
1	lg	127	GLY	C-N-CA	5.05	127.04	120.28
1	27	109	SER	CA-C-O	5.05	126.15	120.70
1	lt	10	MET	N-CA-C	5.05	117.01	109.59
1	lu	222	GLY	CA-C-O	-5.05	117.34	122.59
1	lv	139	ASN	CA-CB-CG	-5.05	107.55	112.60
1	lF	160	PRO	CA-C-N	5.05	131.18	121.54
1	lF	160	PRO	C-N-CA	5.05	131.18	121.54
1	lH	53	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	lL	177	ALA	N-CA-C	5.05	117.36	110.24
1	lM	179	GLN	N-CA-C	5.05	117.67	111.82
1	2b	87	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	2d	87	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	2g	18	ARG	N-CA-CB	5.05	117.63	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2n	140	LYS	CA-C-O	5.05	125.77	119.97
1	2H	42	ALA	CA-C-O	5.05	125.90	120.55
1	2T	154	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	2T	193	ASN	CA-CB-CG	-5.05	107.55	112.60
1	2U	162	ARG	NE-CZ-NH2	5.05	123.74	119.20
1	3c	134	ILE	N-CA-CB	5.05	116.45	110.55
1	3c	171	THR	CA-C-O	-5.05	115.07	120.42
1	3l	192	GLN	O-C-N	-5.05	116.40	122.15
1	3n	186	THR	CA-C-N	5.05	127.04	120.28
1	3n	186	THR	C-N-CA	5.05	127.04	120.28
1	3w	54	THR	CA-C-N	5.05	127.45	120.29
1	3w	54	THR	C-N-CA	5.05	127.45	120.29
1	3C	211	LEU	CA-C-N	5.05	127.04	120.28
1	3C	211	LEU	C-N-CA	5.05	127.04	120.28
1	3F	136	LEU	CA-C-O	5.05	125.57	119.31
1	3W	77	ALA	O-C-N	-5.05	116.77	122.12
1	3Z	86	VAL	CA-C-N	5.05	129.77	121.39
1	3Z	86	VAL	C-N-CA	5.05	129.77	121.39
1	3Z	131	LYS	N-CA-C	5.05	116.78	111.28
1	4h	110	THR	CA-C-O	-5.05	115.86	121.51
1	4x	9	GLN	OE1-CD-NE2	-5.05	117.55	122.60
1	4B	210	THR	N-CA-CB	5.05	118.12	110.45
1	4C	41	SER	CA-C-O	-5.05	115.20	120.55
1	4G	39	MET	N-CA-CB	5.05	117.39	110.07
1	4H	49	PRO	O-C-N	-5.05	116.44	122.24
1	4P	28	GLU	CA-C-O	5.05	126.12	120.82
1	4Z	12	HIS	CB-CG-ND1	5.05	130.27	122.70
1	51	167	ARG	N-CA-C	5.05	116.47	111.07
1	5b	143	ARG	N-CA-CB	-5.05	102.69	110.16
1	5e	115	ILE	N-CA-C	5.05	116.37	110.62
1	5g	112	GLN	CA-C-N	5.05	127.30	120.44
1	5g	112	GLN	C-N-CA	5.05	127.30	120.44
1	5o	73	ILE	CA-C-O	5.05	126.52	121.17
1	5E	39	MET	CA-C-O	5.05	126.92	121.02
1	5G	87	HIS	ND1-CE1-NE2	5.05	113.45	108.40
1	5K	185	MET	CG-SD-CE	-5.05	89.80	100.90
1	5L	5	ASN	CB-CA-C	5.05	119.27	109.33
1	5L	21	ASN	CA-CB-CG	-5.05	107.55	112.60
1	5T	195	ASN	O-C-N	-5.05	116.25	121.60
1	5W	3	VAL	CA-C-N	5.05	128.37	120.75
1	5W	3	VAL	C-N-CA	5.05	128.37	120.75
1	6o	150	ILE	CA-C-N	5.05	131.42	121.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6o	150	ILE	C-N-CA	5.05	131.42	121.58
1	6u	200	THR	N-CA-CB	5.05	117.54	110.12
1	6v	71	GLU	CA-C-N	5.05	127.04	120.28
1	6v	71	GLU	C-N-CA	5.05	127.04	120.28
1	6w	201	ILE	CA-CB-CG1	5.05	118.98	110.40
1	6w	219	GLN	CG-CD-NE2	5.05	123.97	116.40
1	6A	180	GLU	O-C-N	-5.05	116.77	122.12
1	6P	151	LEU	CA-C-N	5.05	127.04	120.28
1	6P	151	LEU	C-N-CA	5.05	127.04	120.28
1	6R	189	LEU	CB-CG-CD2	5.05	125.84	110.70
1	74	156	GLY	CA-C-N	5.05	124.54	119.19
1	74	156	GLY	C-N-CA	5.05	124.54	119.19
1	77	21	ASN	CA-C-N	5.05	127.29	120.38
1	77	21	ASN	C-N-CA	5.05	127.29	120.38
1	78	21	ASN	CA-CB-CG	5.05	117.65	112.60
1	7q	57	ASN	CA-CB-CG	5.05	117.65	112.60
1	7v	107	THR	N-CA-CB	5.05	118.14	110.42
1	7E	82	ARG	NH1-CZ-NH2	-5.05	112.74	119.30
1	7G	17	PRO	N-CD-CG	5.05	110.77	103.20
1	7L	182	LYS	N-CA-C	5.05	117.44	111.33
1	81	50	GLN	O-C-N	-5.05	116.77	122.12
1	82	214	MET	CB-CA-C	5.05	119.17	110.79
1	87	209	ALA	N-CA-C	5.05	117.04	110.43
1	8h	57	ASN	OD1-CG-ND2	-5.05	117.55	122.60
1	8j	107	THR	CA-CB-OG1	5.05	117.17	109.60
1	8l	49	PRO	N-CA-C	5.05	121.27	113.75
1	8o	17	PRO	CB-CA-C	5.05	119.89	111.56
1	8p	191	VAL	CG1-CB-CG2	-5.05	99.70	110.80
1	8q	142	VAL	N-CA-CB	5.05	116.45	110.55
1	8s	72	THR	N-CA-CB	5.05	117.33	110.01
1	8z	97	ARG	N-CA-CB	5.05	117.44	110.17
1	8z	216	THR	CA-C-O	5.05	125.77	119.97
1	8J	107	THR	N-CA-C	5.05	116.78	111.28
1	8O	53	ASN	CA-CB-CG	-5.05	107.55	112.60
1	8X	43	LEU	CA-C-N	5.05	130.31	122.49
1	8X	43	LEU	C-N-CA	5.05	130.31	122.49
1	9j	170	LYS	CA-C-N	5.05	127.46	120.29
1	9j	170	LYS	C-N-CA	5.05	127.46	120.29
1	9k	148	THR	N-CA-CB	5.05	118.64	110.41
1	9u	45	GLU	N-CA-CB	5.05	117.48	109.51
1	9E	170	LYS	O-C-N	-5.05	116.77	122.12
1	9F	53	ASN	CB-CG-ND2	5.05	123.97	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9G	179	GLN	CA-C-N	5.05	127.46	120.29
1	9G	179	GLN	C-N-CA	5.05	127.46	120.29
1	9T	204	ALA	N-CA-C	5.05	116.78	111.28
1	9U	214	MET	N-CA-C	5.05	116.78	111.28
1	9Y	140	LYS	N-CA-C	5.05	116.47	111.07
1	aa	54	THR	N-CA-C	5.05	116.47	111.07
1	ah	129	ILE	O-C-N	5.05	126.86	121.91
1	as	120	HIS	CA-C-N	5.05	129.70	121.83
1	as	120	HIS	C-N-CA	5.05	129.70	121.83
1	aA	203	LYS	O-C-N	-5.05	116.77	122.12
1	aC	40	PHE	CA-C-O	5.05	126.12	120.82
1	aE	150	ILE	CA-CB-CG2	5.05	119.08	110.50
1	aH	214	MET	N-CA-C	5.05	116.78	111.28
1	aJ	97	ARG	NE-CZ-NH1	5.05	126.55	121.50
1	aO	83	LEU	N-CA-CB	-5.05	102.70	110.12
1	b4	18	ARG	NH1-CZ-NH2	-5.05	112.74	119.30
1	b4	135	ILE	CA-CB-CG1	-5.05	101.82	110.40
1	b4	155	GLN	CA-C-O	-5.05	114.84	120.54
1	bo	56	LEU	O-C-N	5.05	127.34	122.09
1	bE	140	LYS	CG-CD-CE	5.05	122.91	111.30
1	bL	66	MET	O-C-N	-5.05	116.87	122.07
1	1a	171	THR	N-CA-C	5.05	116.78	111.28
1	bU	23	TRP	N-CA-C	5.05	116.47	111.07
1	bW	91	ILE	CB-CA-C	5.05	118.51	111.40
1	bZ	100	ARG	NH1-CZ-NH2	-5.05	112.74	119.30
1	c0	19	THR	CA-CB-OG1	-5.05	102.03	109.60
1	c5	217	ALA	N-CA-C	-5.05	101.53	109.50
1	1d	184	TRP	N-CA-C	5.05	116.47	111.07
1	ci	97	ARG	NE-CZ-NH2	-5.05	114.66	119.20
1	cm	139	ASN	N-CA-C	-5.05	105.97	111.82
1	cr	137	GLY	O-C-N	5.05	127.03	122.19
1	1g	91	ILE	O-C-N	-5.05	116.26	122.57
1	cP	126	VAL	CA-C-O	-5.05	115.70	120.95
1	cX	70	LYS	O-C-N	-5.05	116.87	122.07
1	cY	100	ARG	NE-CZ-NH2	-5.05	114.66	119.20
1	db	164	TYR	CB-CG-CD2	-5.05	113.23	120.80
1	dg	219	GLN	CA-C-N	5.05	131.30	121.41
1	dg	219	GLN	C-N-CA	5.05	131.30	121.41
1	dh	16	SER	N-CA-C	5.05	116.05	109.64
1	dl	173	ARG	NE-CZ-NH2	-5.05	114.66	119.20
1	du	156	GLY	O-C-N	-5.05	116.72	121.77
1	dw	23	TRP	O-C-N	-5.05	116.84	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dx	221	VAL	CA-CB-CG2	-5.05	101.82	110.40
1	1n	203	LYS	O-C-N	5.05	127.90	122.15
1	dW	211	LEU	CA-C-O	5.05	126.08	120.63
1	dY	22	ALA	CA-C-O	5.05	125.77	119.97
1	e1	22	ALA	N-CA-C	5.05	116.78	111.28
1	ea	80	TRP	CA-C-N	5.05	127.46	120.29
1	ea	80	TRP	C-N-CA	5.05	127.46	120.29
1	1q	218	CYS	CA-C-O	-5.05	116.42	122.27
1	em	9	GLN	O-C-N	-5.05	117.47	123.22
1	eo	184	TRP	CA-C-N	5.05	127.55	120.28
1	eo	184	TRP	C-N-CA	5.05	127.55	120.28
1	ev	207	PRO	CA-C-O	-5.05	111.71	118.78
1	eC	220	GLY	CA-C-O	5.05	125.45	119.50
1	eK	98	GLU	CA-C-N	5.05	125.83	119.98
1	eK	98	GLU	C-N-CA	5.05	125.83	119.98
1	eK	205	LEU	N-CA-C	5.05	117.17	111.11
1	eP	92	GLU	N-CA-C	5.05	120.96	109.81
1	eQ	133	TRP	CE2-CD2-CE3	5.05	123.85	118.80
1	eT	113	GLU	N-CA-C	5.05	116.47	111.07
1	eV	54	THR	O-C-N	-5.05	116.77	122.12
1	1v	161	PHE	CB-CA-C	5.05	119.17	110.79
1	fI	53	ASN	CA-C-N	5.05	127.00	120.44
1	fI	53	ASN	C-N-CA	5.05	127.00	120.44
1	fI	184	TRP	O-C-N	-5.05	116.87	122.07
1	fQ	184	TRP	CB-CA-C	5.05	119.17	110.79
1	fT	190	LEU	O-C-N	-5.05	115.88	122.59
1	fU	64	ALA	CA-C-N	5.05	127.00	120.44
1	fU	64	ALA	C-N-CA	5.05	127.00	120.44
1	fU	120	HIS	CE1-NE2-CD2	-5.05	103.95	109.00
1	g6	195	ASN	CA-C-N	-5.05	113.53	119.84
1	g6	195	ASN	C-N-CA	-5.05	113.53	119.84
1	1	50	GLN	CB-CA-C	5.05	119.26	110.68
1	m	26	VAL	N-CA-CB	5.05	118.99	110.56
1	D	17	PRO	N-CA-CB	-5.05	98.17	103.52
1	G	118	MET	CA-C-O	-5.05	115.20	120.55
1	K	170	LYS	CA-C-N	5.05	127.04	120.28
1	K	170	LYS	C-N-CA	5.05	127.04	120.28
1	S	185	MET	CB-CA-C	-5.05	102.41	110.79
1	X	19	THR	CA-C-N	5.05	127.80	120.79
1	X	19	THR	C-N-CA	5.05	127.80	120.79
1	X	113	GLU	N-CA-C	5.05	116.78	111.28
1	6	82	ARG	NH1-CZ-NH2	5.05	125.86	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	198	CYS	N-CA-C	5.04	116.47	111.07
1	gp	111	LEU	CD1-CG-CD2	-5.04	99.70	110.80
1	gp	161	PHE	CB-CA-C	5.04	119.17	110.79
1	1D	167	ARG	CA-C-O	-5.04	115.07	120.42
1	gF	70	LYS	O-C-N	-5.04	116.64	122.09
1	gY	68	MET	CA-C-N	5.04	127.30	120.44
1	gY	68	MET	C-N-CA	5.04	127.30	120.44
1	hj	25	LYS	CA-C-N	5.04	131.05	121.97
1	hj	25	LYS	C-N-CA	5.04	131.05	121.97
1	i3	217	ALA	CA-C-N	5.04	131.18	121.54
1	i3	217	ALA	C-N-CA	5.04	131.18	121.54
1	ia	114	GLN	CA-C-N	5.04	127.37	120.46
1	ia	114	GLN	C-N-CA	5.04	127.37	120.46
1	iB	84	HIS	CA-CB-CG	-5.04	108.75	113.80
1	iM	45	GLU	CA-C-O	5.04	127.72	120.51
1	j6	139	ASN	CA-CB-CG	5.04	117.64	112.60
1	jn	54	THR	CA-CB-OG1	5.04	117.17	109.60
1	jp	71	GLU	N-CA-CB	5.04	117.54	110.12
1	ju	107	THR	CA-CB-OG1	5.04	117.17	109.60
1	jx	26	VAL	O-C-N	5.04	126.83	121.89
1	jQ	69	LEU	O-C-N	-5.04	116.64	122.09
1	jZ	62	HIS	CA-C-O	5.04	128.40	122.14
1	kf	58	THR	N-CA-C	5.04	116.78	111.28
1	kK	167	ARG	N-CA-C	-5.04	105.86	111.36
1	kR	110	THR	CA-C-N	5.04	127.04	120.28
1	kR	110	THR	C-N-CA	5.04	127.04	120.28
1	ld	35	GLU	N-CA-C	5.04	117.51	111.71
1	lB	219	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	lF	5	ASN	CA-CB-CG	-5.04	107.56	112.60
1	lO	218	CYS	N-CA-CB	5.04	119.02	110.49
1	2y	33	SER	O-C-N	-5.04	117.91	121.84
1	2E	82	ARG	CD-NE-CZ	5.04	131.46	124.40
1	2M	182	LYS	CA-C-N	5.04	127.45	120.29
1	2M	182	LYS	C-N-CA	5.04	127.45	120.29
1	3h	106	GLY	CA-C-N	5.04	131.18	121.54
1	3h	106	GLY	C-N-CA	5.04	131.18	121.54
1	3p	72	THR	CA-C-O	-5.04	115.50	120.70
1	3I	154	ARG	CG-CD-NE	-5.04	100.90	112.00
1	3M	126	VAL	N-CA-C	5.04	119.83	109.34
1	3N	128	GLU	CA-C-N	5.04	127.01	120.70
1	3N	128	GLU	C-N-CA	5.04	127.01	120.70
1	3U	45	GLU	N-CA-CB	5.04	117.55	109.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4s	104	ILE	CB-CG1-CD1	5.04	124.39	113.80
1	4u	212	GLU	CA-C-N	5.04	127.04	120.28
1	4u	212	GLU	C-N-CA	5.04	127.04	120.28
1	4w	218	CYS	CA-C-N	5.04	130.10	122.99
1	4w	218	CYS	C-N-CA	5.04	130.10	122.99
1	4A	161	PHE	CB-CA-C	5.04	119.47	112.11
1	4E	92	GLU	CA-C-N	5.04	125.33	119.93
1	4E	92	GLU	C-N-CA	5.04	125.33	119.93
1	4I	183	ASN	N-CA-C	5.04	116.78	111.28
1	4Q	162	ARG	CA-C-O	5.04	125.90	120.55
1	4T	123	PRO	N-CA-CB	5.04	107.56	103.32
1	52	129	ILE	CA-CB-CG1	5.04	118.98	110.40
1	5K	42	ALA	CA-C-N	5.04	127.98	120.31
1	5K	42	ALA	C-N-CA	5.04	127.98	120.31
1	5W	223	GLY	CA-C-O	-5.04	114.31	121.52
1	5W	230	VAL	CA-C-O	5.04	124.18	118.98
1	65	166	ASP	O-C-N	-5.04	116.77	122.12
1	66	41	SER	CA-C-N	5.04	127.45	120.29
1	66	41	SER	C-N-CA	5.04	127.45	120.29
1	6d	101	GLY	CA-C-O	5.04	126.25	121.05
1	6k	121	ASN	CA-CB-CG	-5.04	107.56	112.60
1	6k	138	LEU	O-C-N	-5.04	116.40	122.15
1	6A	32	PHE	CB-CG-CD2	5.04	129.28	120.70
1	6H	72	THR	CA-CB-CG2	5.04	119.08	110.50
1	7d	26	VAL	O-C-N	-5.04	116.97	121.91
1	7i	63	GLN	O-C-N	-5.04	115.50	122.46
1	7v	207	PRO	CB-CA-C	-5.04	103.77	110.88
1	7Q	119	THR	CB-CA-C	-5.04	102.19	110.72
1	88	111	LEU	CA-C-O	5.04	125.90	120.55
1	8d	7	GLN	N-CA-C	5.04	120.81	113.40
1	8p	58	THR	CA-C-N	5.04	128.14	120.77
1	8p	58	THR	C-N-CA	5.04	128.14	120.77
1	8w	68	MET	O-C-N	-5.04	116.87	122.07
1	8z	90	PRO	CB-CA-C	5.04	118.05	111.64
1	8B	6	LEU	N-CA-C	-5.04	101.62	109.24
1	8G	189	LEU	CA-C-N	5.04	127.04	120.28
1	8G	189	LEU	C-N-CA	5.04	127.04	120.28
1	8S	70	LYS	N-CA-CB	-5.04	102.75	110.07
1	8X	185	MET	CG-SD-CE	-5.04	89.80	100.90
1	8Y	110	THR	CA-CB-CG2	-5.04	101.92	110.50
1	9p	189	LEU	CA-C-N	5.04	127.04	120.28
1	9p	189	LEU	C-N-CA	5.04	127.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9v	23	TRP	CG-CD2-CE3	-5.04	128.85	133.90
1	9A	64	ALA	CA-C-N	5.04	127.45	120.29
1	9A	64	ALA	C-N-CA	5.04	127.45	120.29
1	9A	98	GLU	CA-C-N	5.04	125.28	119.83
1	9A	98	GLU	C-N-CA	5.04	125.28	119.83
1	9Q	130	TYR	N-CA-C	5.04	117.16	111.11
1	9Z	87	HIS	CA-CB-CG	-5.04	108.75	113.80
1	a2	121	ASN	CA-C-O	-5.04	113.25	120.16
1	aC	57	ASN	CA-C-N	5.04	127.98	120.31
1	aC	57	ASN	C-N-CA	5.04	127.98	120.31
1	aD	200	THR	CA-C-N	5.04	127.58	120.42
1	aD	200	THR	C-N-CA	5.04	127.58	120.42
1	aK	73	ILE	CA-CB-CG2	5.04	119.08	110.50
1	aL	127	GLY	N-CA-C	-5.04	106.39	112.49
1	aN	56	LEU	CB-CA-C	-5.04	102.27	110.85
1	aP	193	ASN	N-CA-C	-5.04	106.81	113.17
1	aS	53	ASN	CA-C-O	5.04	125.90	120.55
1	b3	20	LEU	O-C-N	-5.04	116.40	122.15
1	b6	129	ILE	CB-CA-C	5.04	118.43	111.97
1	b7	194	ALA	CA-C-N	5.04	129.10	121.03
1	b7	194	ALA	C-N-CA	5.04	129.10	121.03
1	bc	72	THR	CB-CA-C	-5.04	102.93	110.90
1	bf	82	ARG	N-CA-CB	5.04	117.33	110.01
1	bo	124	ILE	N-CA-CB	5.04	117.75	111.39
1	bz	120	HIS	CE1-NE2-CD2	-5.04	103.95	109.00
1	bC	52	LEU	CA-C-N	5.04	127.04	120.28
1	bC	52	LEU	C-N-CA	5.04	127.04	120.28
1	bV	77	ALA	CA-C-N	5.04	127.04	120.28
1	bV	77	ALA	C-N-CA	5.04	127.04	120.28
1	c0	5	ASN	N-CA-CB	5.04	117.30	109.48
1	c1	79	GLU	CA-C-O	5.04	125.90	120.55
1	c2	93	PRO	CA-C-N	5.04	131.30	121.41
1	c2	93	PRO	C-N-CA	5.04	131.30	121.41
1	1e	186	THR	CA-C-N	5.04	127.30	120.44
1	1e	186	THR	C-N-CA	5.04	127.30	120.44
1	cs	137	GLY	CA-C-N	5.04	127.45	120.29
1	cs	137	GLY	C-N-CA	5.04	127.45	120.29
1	cG	147	PRO	N-CA-C	5.04	119.12	111.15
1	cG	215	MET	CA-C-O	5.04	125.18	119.18
1	cQ	46	GLY	CA-C-O	5.04	124.71	119.06
1	dh	80	TRP	CA-C-O	-5.04	115.52	120.82
1	dJ	117	TRP	CB-CG-CD1	5.04	134.47	126.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dM	77	ALA	N-CA-C	5.04	116.47	111.07
1	e8	135	ILE	N-CA-C	5.04	115.77	110.62
1	eg	231	LEU	N-CA-CB	-5.04	101.92	110.50
1	ej	152	ASP	CA-CB-CG	5.04	117.64	112.60
1	el	74	ASN	CA-CB-CG	-5.04	107.56	112.60
1	en	71	GLU	CA-C-N	5.04	127.00	120.44
1	en	71	GLU	C-N-CA	5.04	127.00	120.44
1	1v	5	ASN	CB-CG-OD1	5.04	130.89	120.80
1	fs	96	MET	CG-SD-CE	-5.04	89.80	100.90
1	fM	210	THR	O-C-N	-5.04	117.04	122.79
1	fO	105	ALA	N-CA-C	5.04	119.42	113.16
1	fV	31	ALA	O-C-N	-5.04	116.32	122.22
1	fW	39	MET	CB-CA-C	-5.04	102.10	110.68
1	fW	72	THR	O-C-N	-5.04	116.77	122.12
1	g3	126	VAL	O-C-N	-5.04	116.95	121.89
1	w	84	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	E	225	GLY	CA-C-O	-5.04	117.34	122.59
1	S	171	THR	O-C-N	-5.04	116.77	122.12
1	gg	87	HIS	CB-CG-CD2	-5.04	124.64	131.20
1	gi	29	GLU	N-CA-C	5.04	119.51	112.90
1	gu	52	LEU	CA-C-O	-5.04	115.07	120.42
1	gL	207	PRO	CA-C-N	5.04	127.04	120.28
1	gL	207	PRO	C-N-CA	5.04	127.04	120.28
1	gO	188	THR	CA-C-O	5.04	127.72	120.51
1	gR	96	MET	CA-C-N	5.04	128.37	120.75
1	gR	96	MET	C-N-CA	5.04	128.37	120.75
1	h5	182	LYS	CB-CG-CD	5.04	122.90	111.30
1	1H	130	TYR	CB-CG-CD1	5.04	128.37	120.80
1	h7	176	GLN	CA-C-O	5.04	126.72	120.92
1	1I	146	SER	CA-CB-OG	5.04	121.19	111.10
1	hg	117	TRP	CA-C-O	5.04	125.90	120.55
1	hl	100	ARG	CA-C-N	5.04	125.54	119.94
1	hl	100	ARG	C-N-CA	5.04	125.54	119.94
1	ht	66	MET	O-C-N	-5.04	116.77	122.12
1	1K	133	TRP	N-CA-CB	5.04	117.53	110.12
1	hD	92	GLU	N-CA-C	5.04	119.61	112.75
1	hO	175	GLU	O-C-N	-5.04	116.74	122.89
1	i2	149	SER	CA-C-N	5.04	127.37	120.46
1	i2	149	SER	C-N-CA	5.04	127.37	120.46
1	i2	199	LYS	N-CA-C	5.04	116.47	111.07
1	1N	32	PHE	O-C-N	-5.04	115.74	122.20
1	1N	51	ASP	CA-CB-CG	5.04	117.64	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ig	38	PRO	N-CA-C	5.04	121.26	113.75
1	ij	146	SER	N-CA-C	5.04	120.96	109.81
1	il	35	GLU	CA-C-N	5.04	126.92	120.56
1	il	35	GLU	C-N-CA	5.04	126.92	120.56
1	1P	189	LEU	N-CA-C	5.04	116.59	111.14
1	ip	73	ILE	CA-C-O	5.04	126.20	120.95
1	iA	186	THR	N-CA-C	5.04	116.78	111.28
1	iB	78	ALA	N-CA-C	5.04	116.47	111.07
1	iG	182	LYS	N-CA-CB	5.04	117.62	110.16
1	iK	214	MET	N-CA-C	5.04	116.47	111.07
1	iL	24	VAL	CA-C-N	5.04	127.04	120.28
1	iL	24	VAL	C-N-CA	5.04	127.04	120.28
1	iL	226	HIS	O-C-N	-5.04	116.73	122.93
1	iM	13	GLN	CA-C-N	5.04	127.87	120.71
1	iM	13	GLN	C-N-CA	5.04	127.87	120.71
1	iU	170	LYS	N-CA-CB	-5.04	102.69	110.16
1	iZ	118	MET	CG-SD-CE	-5.04	89.80	100.90
1	j5	193	ASN	CA-CB-CG	-5.04	107.56	112.60
1	j7	82	ARG	CA-C-O	5.04	125.74	119.79
1	1U	51	ASP	N-CA-C	-5.04	105.78	111.28
1	jj	50	GLN	CA-C-N	5.04	132.69	121.80
1	jj	50	GLN	C-N-CA	5.04	132.69	121.80
1	jn	182	LYS	CB-CA-C	5.04	118.80	110.88
1	jp	161	PHE	CA-CB-CG	-5.04	108.76	113.80
1	jC	134	ILE	N-CA-CB	5.04	117.40	110.54
1	jF	215	MET	CA-C-N	5.04	127.98	120.31
1	jF	215	MET	C-N-CA	5.04	127.98	120.31
1	jJ	188	THR	CA-CB-OG1	5.04	117.16	109.60
1	jU	154	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	jX	128	GLU	N-CA-C	5.04	116.86	111.36
1	k0	151	LEU	O-C-N	5.04	127.47	122.12
1	k7	229	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	k9	142	VAL	O-C-N	-5.04	116.98	121.87
1	20	64	ALA	CA-C-O	-5.04	115.20	120.55
1	kk	5	ASN	CB-CA-C	5.04	119.16	110.79
1	kt	84	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	ku	141	ILE	O-C-N	-5.04	116.10	121.80
1	ky	208	ALA	CA-C-N	5.04	129.76	121.39
1	ky	208	ALA	C-N-CA	5.04	129.76	121.39
1	23	184	TRP	CE3-CZ3-CH2	5.04	127.66	121.10
1	kG	110	THR	O-C-N	-5.04	117.10	122.85
1	kI	45	GLU	N-CA-C	5.04	117.47	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kI	197	ASP	CA-C-O	5.04	125.74	119.79
1	kJ	102	SER	O-C-N	-5.04	115.67	122.43
1	kN	111	LEU	N-CA-C	5.04	116.78	111.28
1	kP	32	PHE	CA-C-O	5.04	126.80	121.05
1	kR	197	ASP	N-CA-C	-5.04	105.97	111.82
1	kY	56	LEU	N-CA-CB	-5.04	102.76	110.07
1	l5	121	ASN	N-CA-CB	-5.04	102.65	110.01
1	26	131	LYS	N-CA-CB	5.04	117.53	110.12
1	l9	11	VAL	N-CA-C	-5.04	101.05	108.11
1	lh	18	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	lo	190	LEU	CA-C-N	5.04	128.57	120.30
1	lo	190	LEU	C-N-CA	5.04	128.57	120.30
1	28	125	PRO	CA-C-N	5.04	127.64	120.53
1	28	125	PRO	C-N-CA	5.04	127.64	120.53
1	ls	120	HIS	CA-CB-CG	-5.04	108.76	113.80
1	lG	97	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	lN	207	PRO	CA-N-CD	-5.04	104.94	112.00
1	2b	48	THR	O-C-N	-5.04	115.88	121.53
1	2c	53	ASN	CA-C-N	5.04	128.38	120.82
1	2c	53	ASN	C-N-CA	5.04	128.38	120.82
1	2c	130	TYR	N-CA-C	5.04	119.48	113.23
1	2d	182	LYS	N-CA-CB	-5.04	102.70	110.16
1	2k	66	MET	CA-C-N	5.04	127.30	120.44
1	2k	66	MET	C-N-CA	5.04	127.30	120.44
1	2r	38	PRO	CA-C-N	5.04	127.45	120.29
1	2r	38	PRO	C-N-CA	5.04	127.45	120.29
1	2x	153	ILE	N-CA-C	5.04	119.83	109.34
1	2L	18	ARG	CD-NE-CZ	5.04	131.46	124.40
1	2N	100	ARG	N-CA-C	5.04	116.84	110.33
1	2V	188	THR	CA-C-O	-5.04	115.52	120.82
1	32	145	TYR	N-CA-CB	5.04	117.78	110.47
1	33	38	PRO	CB-CA-C	-5.04	104.75	112.11
1	35	54	THR	N-CA-C	5.04	116.78	111.28
1	39	181	VAL	CB-CA-C	-5.04	105.43	112.04
1	3f	103	ASP	N-CA-C	-5.04	105.49	111.69
1	3m	34	PRO	N-CA-CB	-5.04	98.67	103.41
1	3q	2	ILE	CA-C-O	5.04	125.64	120.39
1	3q	107	THR	CA-C-N	5.04	129.45	121.18
1	3q	107	THR	C-N-CA	5.04	129.45	121.18
1	3w	91	ILE	CA-CB-CG1	5.04	118.97	110.40
1	3C	108	THR	N-CA-CB	5.04	117.95	110.49
1	3D	229	ARG	NE-CZ-NH1	5.04	126.54	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3Q	167	ARG	CB-CG-CD	5.04	122.90	111.30
1	3Z	157	PRO	CA-C-O	-5.04	111.93	119.34
1	43	141	ILE	CA-C-N	5.04	128.44	120.47
1	43	141	ILE	C-N-CA	5.04	128.44	120.47
1	45	28	GLU	CA-C-N	5.04	127.98	120.31
1	45	28	GLU	C-N-CA	5.04	127.98	120.31
1	47	133	TRP	CE2-CD2-CE3	5.04	123.84	118.80
1	4f	113	GLU	CB-CA-C	-5.04	102.28	110.85
1	4h	4	GLN	CA-C-O	5.04	127.39	121.54
1	4h	14	ALA	N-CA-C	5.04	118.43	109.96
1	4m	126	VAL	CA-C-N	5.04	125.55	120.00
1	4m	126	VAL	C-N-CA	5.04	125.55	120.00
1	4o	75	GLU	CA-C-N	5.04	127.45	120.29
1	4o	75	GLU	C-N-CA	5.04	127.45	120.29
1	4r	130	TYR	CB-CA-C	5.04	119.16	110.79
1	4E	150	ILE	O-C-N	-5.04	116.10	121.80
1	4F	194	ALA	N-CA-C	5.04	117.21	110.35
1	4L	153	ILE	CA-CB-CG1	5.04	118.97	110.40
1	4L	212	GLU	CB-CA-C	-5.04	101.30	110.63
1	4S	160	PRO	CA-C-N	5.04	129.77	122.36
1	4S	160	PRO	C-N-CA	5.04	129.77	122.36
1	4X	211	LEU	CA-C-N	5.04	127.29	120.38
1	4X	211	LEU	C-N-CA	5.04	127.29	120.38
1	53	171	THR	OG1-CB-CG2	-5.04	99.21	109.30
1	54	72	THR	CA-C-N	5.04	127.37	120.46
1	54	72	THR	C-N-CA	5.04	127.37	120.46
1	56	87	HIS	CB-CG-ND1	5.04	130.27	122.70
1	58	100	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	5a	218	CYS	CB-CA-C	5.04	119.21	111.39
1	5o	214	MET	N-CA-C	5.04	116.86	111.36
1	5V	152	ASP	CA-CB-CG	-5.04	107.56	112.60
1	60	62	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	6g	181	VAL	N-CA-C	5.04	115.76	110.62
1	6t	19	THR	O-C-N	-5.04	116.77	122.12
1	6u	53	ASN	CA-CB-CG	5.04	117.64	112.60
1	6x	139	ASN	CB-CG-ND2	5.04	123.97	116.40
1	6x	195	ASN	CA-C-N	5.04	124.65	119.05
1	6x	195	ASN	C-N-CA	5.04	124.65	119.05
1	6y	80	TRP	CA-C-N	5.04	127.35	120.54
1	6y	80	TRP	C-N-CA	5.04	127.35	120.54
1	6E	169	TYR	CA-C-N	5.04	127.04	120.28
1	6E	169	TYR	C-N-CA	5.04	127.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6L	15	ILE	N-CA-C	5.04	115.50	108.84
1	6T	82	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	6U	16	SER	CA-CB-OG	5.04	121.19	111.10
1	6X	80	TRP	O-C-N	5.04	127.47	122.12
1	70	84	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	7n	179	GLN	O-C-N	-5.04	116.32	122.22
1	7n	209	ALA	CA-C-N	5.04	127.87	120.71
1	7n	209	ALA	C-N-CA	5.04	127.87	120.71
1	7w	18	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	7x	42	ALA	O-C-N	-5.04	116.77	122.12
1	7y	50	GLN	CB-CA-C	5.04	119.16	110.79
1	7A	142	VAL	CA-C-N	5.04	127.00	120.44
1	7A	142	VAL	C-N-CA	5.04	127.00	120.44
1	7B	197	ASP	CA-C-N	5.04	127.00	120.44
1	7B	197	ASP	C-N-CA	5.04	127.00	120.44
1	7I	195	ASN	CA-C-O	-5.04	115.02	120.87
1	7M	189	LEU	CA-C-N	5.04	127.80	120.79
1	7M	189	LEU	C-N-CA	5.04	127.80	120.79
1	7P	42	ALA	N-CA-C	5.04	116.47	111.07
1	7V	21	ASN	CB-CG-OD1	5.04	130.89	120.80
1	87	141	ILE	CB-CA-C	-5.04	105.51	111.97
1	87	182	LYS	CA-C-N	5.04	127.00	120.44
1	87	182	LYS	C-N-CA	5.04	127.00	120.44
1	88	84	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	8b	20	LEU	O-C-N	-5.04	116.07	122.27
1	8n	95	GLN	CB-CA-C	-5.04	101.48	109.80
1	8z	186	THR	N-CA-CB	5.04	117.71	110.20
1	8E	152	ASP	CA-C-N	5.04	128.75	121.18
1	8E	152	ASP	C-N-CA	5.04	128.75	121.18
1	8H	144	MET	CG-SD-CE	-5.04	89.80	100.90
1	8S	143	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	8T	164	TYR	CB-CA-C	5.04	118.80	110.88
1	9s	125	PRO	O-C-N	-5.04	115.83	122.64
1	9w	197	ASP	O-C-N	-5.04	116.40	122.15
1	9x	50	GLN	CA-C-N	5.04	127.00	120.44
1	9x	50	GLN	C-N-CA	5.04	127.00	120.44
1	9z	57	ASN	CB-CA-C	-5.04	102.28	110.85
1	9G	100	ARG	CA-C-N	5.04	125.54	119.94
1	9G	100	ARG	C-N-CA	5.04	125.54	119.94
1	9R	63	GLN	CA-C-N	5.04	127.00	120.44
1	9R	63	GLN	C-N-CA	5.04	127.00	120.44
1	9U	23	TRP	CA-C-N	5.04	127.11	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9U	23	TRP	C-N-CA	5.04	127.11	120.60
1	9V	100	ARG	CG-CD-NE	-5.04	100.90	112.00
1	a5	31	ALA	O-C-N	-5.04	115.88	122.59
1	ak	107	THR	O-C-N	-5.04	115.50	122.46
1	al	127	GLY	O-C-N	-5.04	116.14	122.70
1	al	154	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	am	23	TRP	O-C-N	-5.04	116.07	122.27
1	ao	210	THR	CA-C-O	5.04	126.90	121.55
1	ay	163	ASP	CA-CB-CG	5.04	117.64	112.60
1	aH	30	LYS	CA-C-N	5.04	127.98	120.31
1	aH	30	LYS	C-N-CA	5.04	127.98	120.31
1	aI	85	PRO	N-CA-C	5.04	118.42	110.80
1	aL	12	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	aP	83	LEU	O-C-N	-5.04	116.77	122.12
1	aP	142	VAL	CB-CA-C	5.04	118.42	111.97
1	aX	131	LYS	N-CA-CB	-5.04	102.71	110.12
1	aZ	83	LEU	CA-C-O	5.04	126.61	120.31
1	ba	47	ALA	CA-C-O	5.04	126.70	121.15
1	17	4	GLN	CB-CG-CD	5.04	121.17	112.60
1	bO	173	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	bR	112	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	bT	195	ASN	CA-CB-CG	5.04	117.64	112.60
1	bU	192	GLN	CA-CB-CG	5.04	124.19	114.10
1	c5	195	ASN	CA-C-O	-5.04	114.92	120.17
1	c8	37	ILE	CA-C-O	-5.04	114.88	118.71
1	ce	5	ASN	O-C-N	-5.04	115.13	121.74
1	ch	203	LYS	O-C-N	-5.04	115.57	122.33
1	cu	150	ILE	O-C-N	-5.04	116.78	121.87
1	cx	57	ASN	CB-CG-ND2	5.04	123.96	116.40
1	1g	24	VAL	N-CA-C	5.04	115.66	110.36
1	cQ	26	VAL	CA-C-N	5.04	127.37	120.46
1	cQ	26	VAL	C-N-CA	5.04	127.37	120.46
1	cU	87	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	cV	62	HIS	CA-C-N	5.04	127.54	120.28
1	cV	62	HIS	C-N-CA	5.04	127.54	120.28
1	cV	230	VAL	O-C-N	-5.04	116.99	122.64
1	d3	91	ILE	CB-CA-C	5.04	117.93	110.77
1	1i	87	HIS	N-CA-C	5.04	121.54	110.80
1	1j	133	TRP	CB-CA-C	-5.04	102.42	110.79
1	de	182	LYS	N-CA-C	5.04	116.78	111.28
1	dk	23	TRP	CA-C-O	5.04	126.11	120.82
1	1k	73	ILE	CA-C-N	5.04	127.04	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1k	73	ILE	C-N-CA	5.04	127.04	120.28
1	dx	205	LEU	N-CA-C	5.04	116.78	111.28
1	dy	220	GLY	CA-C-O	-5.04	115.25	121.56
1	dA	198	CYS	CA-C-O	5.04	125.50	119.60
1	dH	164	TYR	CA-C-N	5.04	127.37	120.46
1	dH	164	TYR	C-N-CA	5.04	127.37	120.46
1	1n	166	ASP	CB-CA-C	5.04	119.16	110.79
1	dV	45	GLU	N-CA-C	5.04	117.43	111.33
1	e3	204	ALA	CA-C-N	5.04	127.00	120.44
1	e3	204	ALA	C-N-CA	5.04	127.00	120.44
1	e5	168	PHE	CA-CB-CG	5.04	118.84	113.80
1	e8	18	ARG	CA-C-N	5.04	127.04	120.28
1	e8	18	ARG	C-N-CA	5.04	127.04	120.28
1	e9	175	GLU	CA-CB-CG	-5.04	104.01	114.10
1	eb	149	SER	O-C-N	-5.04	116.72	122.93
1	eo	88	ALA	N-CA-C	5.04	117.98	110.52
1	eq	21	ASN	CA-CB-CG	-5.04	107.56	112.60
1	eH	203	LYS	N-CA-C	5.04	117.16	111.11
1	eM	6	LEU	O-C-N	-5.04	118.25	123.29
1	eQ	82	ARG	CA-C-N	5.04	127.04	120.28
1	eQ	82	ARG	C-N-CA	5.04	127.04	120.28
1	eU	18	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	eZ	116	GLY	O-C-N	-5.04	117.30	122.19
1	fc	19	THR	CA-C-O	5.04	126.12	120.82
1	fc	190	LEU	CA-C-N	5.04	127.02	120.56
1	fc	190	LEU	C-N-CA	5.04	127.02	120.56
1	fg	12	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	fi	229	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	fo	41	SER	CA-C-O	5.04	125.77	120.42
1	fp	2	ILE	N-CA-C	-5.04	101.22	108.48
1	1x	182	LYS	CA-C-N	5.04	127.35	120.54
1	1x	182	LYS	C-N-CA	5.04	127.35	120.54
1	fw	188	THR	N-CA-C	5.04	117.16	111.11
1	fM	97	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	fN	115	ILE	CA-C-O	5.04	126.52	121.17
1	fV	18	ARG	CA-C-N	5.04	127.00	120.44
1	fV	18	ARG	C-N-CA	5.04	127.00	120.44
1	1B	37	ILE	O-C-N	5.04	123.65	120.42
1	g	185	MET	CA-C-N	5.04	129.21	120.58
1	g	185	MET	C-N-CA	5.04	129.21	120.58
1	m	173	ARG	CD-NE-CZ	5.04	131.46	124.40
1	2	121	ASN	CB-CG-ND2	5.04	123.96	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	11	VAL	CA-C-O	5.04	127.13	121.28
1	I	73	ILE	N-CA-CB	5.04	119.28	110.65
1	L	129	ILE	N-CA-C	5.04	115.26	110.42
1	V	101	GLY	O-C-N	5.04	127.02	122.18
1	X	192	GLN	CA-C-N	5.04	131.51	122.38
1	X	192	GLN	C-N-CA	5.04	131.51	122.38
1	9	172	LEU	CA-C-N	5.04	127.04	120.28
1	9	172	LEU	C-N-CA	5.04	127.04	120.28
1	ga	202	LEU	O-C-N	-5.04	116.88	122.07
1	gi	184	TRP	CA-C-N	5.04	127.03	120.28
1	gi	184	TRP	C-N-CA	5.04	127.03	120.28
1	gm	86	VAL	N-CA-CB	5.04	119.55	111.23
1	1D	70	LYS	N-CA-C	5.04	116.77	111.28
1	gv	48	THR	O-C-N	-5.04	116.25	121.60
1	gB	74	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	gD	89	GLY	CA-C-N	5.04	126.14	119.84
1	gD	89	GLY	C-N-CA	5.04	126.14	119.84
1	gF	48	THR	O-C-N	-5.04	115.78	121.43
1	gH	213	GLU	CA-C-N	5.04	127.45	120.29
1	gH	213	GLU	C-N-CA	5.04	127.45	120.29
1	gX	174	ALA	N-CA-C	5.04	116.46	111.07
1	1H	67	GLN	N-CA-C	5.04	116.78	111.28
1	hb	58	THR	CA-C-N	5.04	128.13	120.77
1	hb	58	THR	C-N-CA	5.04	128.13	120.77
1	hh	101	GLY	O-C-N	-5.04	117.35	122.19
1	hk	117	TRP	N-CA-C	5.04	116.47	111.07
1	hq	197	ASP	N-CA-C	-5.04	105.87	111.36
1	hA	174	ALA	CA-C-O	5.04	125.77	119.97
1	hM	154	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	hP	94	GLY	O-C-N	-5.04	116.78	122.28
1	hR	95	GLN	O-C-N	-5.04	117.12	123.27
1	hS	69	LEU	CA-C-O	5.04	126.30	120.90
1	1M	164	TYR	N-CA-C	5.04	116.78	111.28
1	hU	134	ILE	N-CA-CB	5.04	116.45	110.55
1	hX	95	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	hX	163	ASP	CA-C-N	5.04	126.99	120.44
1	hX	163	ASP	C-N-CA	5.04	126.99	120.44
1	i8	82	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	ib	3	VAL	CA-C-O	-5.04	115.18	120.27
1	id	160	PRO	N-CA-CB	-5.04	98.81	103.25
1	1O	191	VAL	CB-CA-C	-5.04	105.33	112.14
1	ig	221	VAL	CA-CB-CG1	-5.04	101.83	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ih	125	PRO	O-C-N	-5.04	115.83	122.64
1	ih	229	ARG	N-CA-C	5.04	117.28	108.76
1	iq	5	ASN	CA-C-O	5.04	126.46	120.66
1	iq	166	ASP	CA-C-O	5.04	126.61	121.07
1	1Q	169	TYR	CA-C-O	-5.04	114.64	120.24
1	iz	149	SER	O-C-N	-5.04	117.26	122.96
1	1R	130	TYR	O-C-N	5.04	127.46	122.12
1	iO	34	PRO	O-C-N	5.04	129.45	122.64
1	iO	126	VAL	N-CA-C	5.04	115.76	110.62
1	iV	133	TRP	CE2-CD2-CG	-5.04	101.15	107.20
1	1T	144	MET	CG-SD-CE	-5.04	89.81	100.90
1	jh	215	MET	N-CA-C	5.04	119.14	112.89
1	jq	28	GLU	N-CA-C	5.04	116.46	111.07
1	jJ	156	GLY	CA-C-N	5.04	124.73	119.64
1	jJ	156	GLY	C-N-CA	5.04	124.73	119.64
1	jO	67	GLN	O-C-N	-5.04	116.88	122.07
1	jW	188	THR	CB-CA-C	-5.04	102.32	110.79
1	jW	214	MET	CA-CB-CG	5.04	124.18	114.10
1	k1	168	PHE	O-C-N	-5.04	116.64	122.09
1	k2	144	MET	N-CA-C	5.04	117.16	111.11
1	k5	210	THR	O-C-N	-5.04	116.99	122.84
1	kg	84	HIS	CA-C-N	5.04	126.14	119.84
1	kg	84	HIS	C-N-CA	5.04	126.14	119.84
1	kg	197	ASP	CA-CB-CG	5.04	117.64	112.60
1	kj	15	ILE	CB-CA-C	5.04	118.84	111.33
1	kk	205	LEU	CB-CA-C	-5.04	102.28	110.85
1	kt	102	SER	CA-C-N	5.04	127.45	120.29
1	kt	102	SER	C-N-CA	5.04	127.45	120.29
1	ku	15	ILE	CA-C-N	5.04	128.04	120.83
1	ku	15	ILE	C-N-CA	5.04	128.04	120.83
1	kF	22	ALA	CA-C-O	5.04	125.76	120.42
1	kH	163	ASP	CA-CB-CG	5.04	117.64	112.60
1	kR	62	HIS	CA-C-N	5.04	127.54	120.28
1	kR	62	HIS	C-N-CA	5.04	127.54	120.28
1	kU	23	TRP	CA-C-N	5.04	127.01	120.56
1	kU	23	TRP	C-N-CA	5.04	127.01	120.56
1	kY	206	GLY	N-CA-C	5.04	122.63	112.34
1	l0	211	LEU	CA-C-O	5.04	125.89	120.55
1	l5	162	ARG	CA-C-O	-5.04	115.19	120.63
1	le	191	VAL	CA-CB-CG1	5.04	118.97	110.40
1	27	4	GLN	O-C-N	-5.04	117.26	122.96
1	lq	12	HIS	CA-C-O	-5.04	115.12	120.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	28	5	ASN	CA-C-O	-5.04	116.32	121.87
1	28	18	ARG	CD-NE-CZ	5.04	131.46	124.40
1	lA	130	TYR	CB-CG-CD2	-5.04	113.24	120.80
1	lL	91	ILE	CB-CA-C	-5.04	104.30	111.21
1	lM	133	TRP	CB-CG-CD2	-5.04	119.74	126.80
1	2b	188	THR	N-CA-CB	5.04	121.03	111.00
1	2d	143	ARG	N-CA-CB	-5.04	102.58	110.44
1	2g	36	VAL	N-CA-C	-5.04	106.16	113.07
1	2g	217	ALA	CA-C-N	5.04	131.17	121.54
1	2g	217	ALA	C-N-CA	5.04	131.17	121.54
1	2n	26	VAL	O-C-N	-5.04	116.64	121.83
1	2n	80	TRP	N-CA-C	5.04	117.51	111.71
1	2t	86	VAL	O-C-N	-5.04	117.58	122.93
1	2A	13	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	2E	21	ASN	CB-CG-OD1	5.04	130.88	120.80
1	2G	128	GLU	O-C-N	-5.04	116.78	122.12
1	2V	147	PRO	O-C-N	-5.04	115.83	122.64
1	30	169	TYR	N-CA-C	5.04	116.86	111.36
1	31	212	GLU	CA-C-O	5.04	126.29	120.90
1	32	172	LEU	N-CA-C	5.04	116.78	111.28
1	35	180	GLU	CA-C-N	5.04	127.58	120.42
1	35	180	GLU	C-N-CA	5.04	127.58	120.42
1	36	180	GLU	CA-C-N	5.04	126.91	120.56
1	36	180	GLU	C-N-CA	5.04	126.91	120.56
1	3h	73	ILE	CA-CB-CG2	-5.04	101.93	110.50
1	3j	132	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	3k	210	THR	CA-C-N	5.04	129.14	120.72
1	3k	210	THR	C-N-CA	5.04	129.14	120.72
1	3l	23	TRP	N-CA-CB	5.04	117.62	110.16
1	3n	203	LYS	CA-C-N	5.04	126.99	120.44
1	3n	203	LYS	C-N-CA	5.04	126.99	120.44
1	3q	9	GLN	CG-CD-OE1	-5.04	110.72	120.80
1	3r	123	PRO	CA-C-N	-5.04	118.40	123.04
1	3r	123	PRO	C-N-CA	-5.04	118.40	123.04
1	3s	77	ALA	CA-C-O	5.04	126.11	120.82
1	3u	117	TRP	N-CA-C	5.04	117.43	111.33
1	3I	79	GLU	N-CA-C	5.04	116.78	111.28
1	3R	2	ILE	CA-C-O	5.04	126.57	120.67
1	3W	120	HIS	N-CA-C	5.04	116.79	110.24
1	4m	193	ASN	N-CA-CB	5.04	117.92	110.56
1	4w	18	ARG	CA-C-N	5.04	126.99	120.44
1	4w	18	ARG	C-N-CA	5.04	126.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4L	117	TRP	O-C-N	-5.04	116.85	122.09
1	4R	176	GLN	CA-C-O	5.04	126.05	119.95
1	4X	22	ALA	CA-C-N	5.04	127.35	120.54
1	4X	22	ALA	C-N-CA	5.04	127.35	120.54
1	4Y	87	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	54	160	PRO	N-CA-C	5.04	119.11	111.15
1	54	226	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	5a	84	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	5c	153	ILE	CB-CA-C	-5.04	104.30	111.21
1	5d	149	SER	CA-C-O	5.04	127.01	121.11
1	5h	221	VAL	CA-C-O	5.04	127.08	120.78
1	5j	125	PRO	CA-C-N	5.04	128.44	120.47
1	5j	125	PRO	C-N-CA	5.04	128.44	120.47
1	5k	80	TRP	O-C-N	-5.04	116.40	122.15
1	5l	87	HIS	CB-CG-ND1	-5.04	115.14	122.70
1	69	131	LYS	O-C-N	-5.04	116.85	122.09
1	6b	139	ASN	N-CA-C	-5.04	105.79	111.28
1	6l	21	ASN	CA-C-N	5.04	126.99	120.44
1	6l	21	ASN	C-N-CA	5.04	126.99	120.44
1	6p	195	ASN	OD1-CG-ND2	5.04	127.64	122.60
1	6r	102	SER	CA-C-N	5.04	127.30	120.44
1	6r	102	SER	C-N-CA	5.04	127.30	120.44
1	6u	194	ALA	CA-C-O	-5.04	116.02	121.87
1	6x	16	SER	CA-C-N	5.04	124.53	119.19
1	6x	16	SER	C-N-CA	5.04	124.53	119.19
1	6B	135	ILE	N-CA-CB	5.04	116.45	110.55
1	6F	66	MET	CB-CA-C	-5.04	102.11	110.68
1	6U	226	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	6W	114	GLN	O-C-N	-5.04	116.69	122.08
1	71	79	GLU	N-CA-C	5.04	116.78	111.28
1	74	18	ARG	N-CA-C	5.04	116.78	111.28
1	78	28	GLU	CB-CA-C	-5.04	102.42	110.79
1	7f	68	MET	N-CA-C	5.04	116.77	111.28
1	7h	13	GLN	CA-C-N	5.04	128.63	121.42
1	7h	13	GLN	C-N-CA	5.04	128.63	121.42
1	7k	128	GLU	N-CA-CB	5.04	117.53	110.12
1	7q	96	MET	CA-CB-CG	5.04	124.18	114.10
1	7r	54	THR	CA-C-O	5.04	125.89	120.55
1	7H	96	MET	N-CA-C	5.04	117.54	110.23
1	7L	23	TRP	CA-C-O	5.04	126.29	121.00
1	7O	58	THR	CA-C-O	-5.04	115.21	120.55
1	7P	35	GLU	CA-C-N	5.04	127.64	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7P	35	GLU	C-N-CA	5.04	127.64	120.53
1	7Q	181	VAL	CA-C-O	5.04	126.51	121.17
1	7Q	203	LYS	CA-C-O	-5.04	115.21	120.55
1	8d	180	GLU	CA-C-O	-5.04	115.21	120.55
1	8g	190	LEU	N-CA-CB	-5.04	102.71	110.12
1	8k	107	THR	N-CA-C	5.04	116.86	111.36
1	8m	220	GLY	O-C-N	-5.04	117.47	122.41
1	8q	84	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	8z	58	THR	O-C-N	-5.04	116.88	122.07
1	8E	186	THR	N-CA-CB	5.04	117.32	110.01
1	8L	224	PRO	O-C-N	5.04	129.44	122.64
1	8M	169	TYR	CA-C-N	5.04	127.04	120.28
1	8M	169	TYR	C-N-CA	5.04	127.04	120.28
1	8Z	12	HIS	CB-CG-CD2	-5.04	124.64	131.20
1	8Z	84	HIS	CA-C-N	5.04	126.14	119.84
1	8Z	84	HIS	C-N-CA	5.04	126.14	119.84
1	98	167	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	99	165	VAL	CB-CA-C	-5.04	105.26	112.22
1	9g	18	ARG	N-CA-C	5.04	117.43	111.33
1	9k	21	ASN	CA-C-N	5.04	127.35	120.54
1	9k	21	ASN	C-N-CA	5.04	127.35	120.54
1	9k	159	GLU	N-CA-CB	5.04	117.77	109.90
1	9q	176	GLN	CA-C-N	5.04	131.17	121.54
1	9q	176	GLN	C-N-CA	5.04	131.17	121.54
1	9t	10	MET	CA-C-N	5.04	129.36	121.85
1	9t	10	MET	C-N-CA	5.04	129.36	121.85
1	9w	120	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	9H	26	VAL	O-C-N	-5.04	116.97	121.91
1	9Y	84	HIS	CA-C-O	5.04	124.68	119.49
1	a3	13	GLN	CG-CD-OE1	5.04	130.88	120.80
1	a3	107	THR	O-C-N	5.04	127.53	122.09
1	a3	193	ASN	CA-C-N	5.04	129.39	120.87
1	a3	193	ASN	C-N-CA	5.04	129.39	120.87
1	a5	134	ILE	CA-C-N	5.04	127.37	120.46
1	a5	134	ILE	C-N-CA	5.04	127.37	120.46
1	a8	97	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	10	58	THR	N-CA-CB	5.04	118.09	110.28
1	ad	162	ARG	N-CA-CB	5.04	119.01	110.49
1	ae	17	PRO	CA-C-N	5.04	127.04	120.28
1	ae	17	PRO	C-N-CA	5.04	127.04	120.28
1	aj	139	ASN	O-C-N	-5.04	116.88	122.07
1	11	163	ASP	CA-C-N	5.04	126.99	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	11	163	ASP	C-N-CA	5.04	126.99	120.44
1	am	94	GLY	N-CA-C	-5.04	108.16	115.27
1	ao	110	THR	CA-C-N	5.04	127.29	120.38
1	ao	110	THR	C-N-CA	5.04	127.29	120.38
1	ap	219	GLN	CA-C-O	5.04	124.37	118.77
1	ar	132	ARG	N-CA-CB	5.04	117.62	110.16
1	at	172	LEU	CA-C-N	5.04	127.04	120.28
1	at	172	LEU	C-N-CA	5.04	127.04	120.28
1	aw	100	ARG	N-CA-C	-5.04	103.28	110.59
1	ax	208	ALA	CA-C-N	5.04	128.36	120.75
1	ax	208	ALA	C-N-CA	5.04	128.36	120.75
1	aA	155	GLN	N-CA-CB	5.04	118.64	110.17
1	aD	229	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	aE	133	TRP	CB-CG-CD1	5.04	134.46	126.90
1	15	92	GLU	N-CA-C	5.04	120.32	113.16
1	aZ	35	GLU	CA-C-O	5.04	125.80	120.10
1	b5	1	PRO	N-CD-CG	5.04	110.76	103.20
1	ba	12	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	bb	130	TYR	O-C-N	-5.04	115.67	122.43
1	bb	155	GLN	O-C-N	-5.04	116.74	122.89
1	bh	139	ASN	CA-C-O	-5.04	115.20	120.55
1	bi	125	PRO	CA-C-O	-5.04	116.11	123.07
1	bm	171	THR	CA-C-N	5.04	128.66	120.60
1	bm	171	THR	C-N-CA	5.04	128.66	120.60
1	18	154	ARG	NH1-CZ-NH2	5.04	125.85	119.30
1	bw	167	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	bx	163	ASP	N-CA-CB	-5.04	102.71	110.12
1	bH	181	VAL	N-CA-C	5.04	115.76	110.62
1	bH	183	ASN	CA-C-N	5.04	127.03	120.28
1	bH	183	ASN	C-N-CA	5.04	127.03	120.28
1	bN	70	LYS	CA-C-N	5.04	127.04	120.28
1	bN	70	LYS	C-N-CA	5.04	127.04	120.28
1	bQ	217	ALA	N-CA-C	5.04	118.17	110.20
1	bS	55	MET	O-C-N	-5.04	116.78	122.12
1	bU	39	MET	CG-SD-CE	-5.04	89.81	100.90
1	bW	185	MET	CG-SD-CE	-5.04	89.81	100.90
1	cj	209	ALA	N-CA-C	5.04	117.54	110.23
1	co	135	ILE	CA-C-O	5.04	126.19	120.95
1	1e	98	GLU	N-CA-C	5.04	115.77	109.57
1	cr	49	PRO	N-CA-CB	5.04	108.54	103.25
1	cv	117	TRP	O-C-N	-5.04	116.32	122.22
1	cw	148	THR	O-C-N	-5.04	117.14	123.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cA	82	ARG	CA-C-N	5.04	129.20	120.58
1	cA	82	ARG	C-N-CA	5.04	129.20	120.58
1	cA	200	THR	CA-C-N	5.04	126.91	120.56
1	cA	200	THR	C-N-CA	5.04	126.91	120.56
1	cE	7	GLN	N-CA-CB	5.04	119.01	110.49
1	cP	75	GLU	N-CA-CB	5.04	117.48	109.82
1	cR	82	ARG	CA-C-O	5.04	125.89	120.70
1	cS	119	THR	OG1-CB-CG2	-5.04	99.22	109.30
1	d1	63	GLN	CA-C-N	5.04	127.30	120.44
1	d1	63	GLN	C-N-CA	5.04	127.30	120.44
1	d3	82	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	d7	184	TRP	CE3-CZ3-CH2	5.04	127.65	121.10
1	dg	42	ALA	N-CA-C	5.04	116.78	111.28
1	dh	39	MET	CA-C-N	5.04	126.99	120.44
1	dh	39	MET	C-N-CA	5.04	126.99	120.44
1	dl	219	GLN	CA-C-N	5.04	133.04	121.34
1	dl	219	GLN	C-N-CA	5.04	133.04	121.34
1	dr	24	VAL	CA-C-N	5.04	127.34	120.54
1	dr	24	VAL	C-N-CA	5.04	127.34	120.54
1	dw	201	ILE	N-CA-C	5.04	115.81	110.72
1	dA	168	PHE	O-C-N	-5.04	116.79	122.03
1	dB	172	LEU	N-CA-C	5.04	116.86	111.36
1	dG	100	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	1m	78	ALA	N-CA-C	5.04	116.46	111.07
1	dV	62	HIS	N-CA-C	5.04	121.54	110.80
1	dZ	2	ILE	N-CA-CB	5.04	118.02	111.67
1	eb	102	SER	N-CA-CB	-5.04	102.71	110.12
1	eo	182	LYS	CA-C-O	5.04	126.11	120.82
1	ep	67	GLN	O-C-N	-5.04	116.88	122.07
1	es	19	THR	CA-C-O	5.04	126.30	120.90
1	1r	18	ARG	NE-CZ-NH1	-5.04	116.46	121.50
1	ex	201	ILE	CA-C-N	5.04	127.04	120.28
1	ex	201	ILE	C-N-CA	5.04	127.04	120.28
1	eA	185	MET	CA-C-N	5.04	131.17	121.54
1	eA	185	MET	C-N-CA	5.04	131.17	121.54
1	eE	40	PHE	CA-C-N	5.04	126.99	120.44
1	eE	40	PHE	C-N-CA	5.04	126.99	120.44
1	1s	151	LEU	N-CA-CB	5.04	118.09	110.28
1	eG	164	TYR	CA-C-N	5.04	127.64	120.53
1	eG	164	TYR	C-N-CA	5.04	127.64	120.53
1	eK	177	ALA	CA-C-N	5.04	128.01	120.90
1	eK	177	ALA	C-N-CA	5.04	128.01	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eM	216	THR	CA-C-O	5.04	125.56	119.11
1	1t	184	TRP	CB-CA-C	5.04	119.25	110.68
1	eX	167	ARG	N-CA-CB	5.04	117.32	110.01
1	f4	77	ALA	CA-C-N	5.04	127.45	120.29
1	f4	77	ALA	C-N-CA	5.04	127.45	120.29
1	f7	84	HIS	N-CA-C	5.04	117.11	110.36
1	1v	60	GLY	CA-C-N	5.04	128.75	121.54
1	1v	60	GLY	C-N-CA	5.04	128.75	121.54
1	fd	50	GLN	CA-C-N	5.04	127.03	120.28
1	fd	50	GLN	C-N-CA	5.04	127.03	120.28
1	fm	21	ASN	N-CA-CB	5.04	117.53	110.12
1	fs	228	ALA	CA-C-O	5.04	127.76	121.81
1	1x	34	PRO	N-CA-CB	5.04	108.15	103.41
1	fM	85	PRO	CB-CA-C	5.04	120.18	112.97
1	fM	120	HIS	O-C-N	-5.04	116.74	122.89
1	fT	100	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	d	105	ALA	CB-CA-C	5.04	119.08	110.56
1	z	56	LEU	N-CA-CB	5.04	117.98	110.22
1	z	100	ARG	CA-C-N	5.04	125.55	120.00
1	z	100	ARG	C-N-CA	5.04	125.55	120.00
1	A	199	LYS	O-C-N	-5.04	116.40	122.15
1	C	179	GLN	CA-C-N	5.04	127.29	120.38
1	C	179	GLN	C-N-CA	5.04	127.29	120.38
1	4	206	GLY	O-C-N	-5.04	116.73	121.77
1	O	167	ARG	CA-C-N	5.04	126.99	120.44
1	O	167	ARG	C-N-CA	5.04	126.99	120.44
1	Q	127	GLY	CA-C-N	5.04	127.04	120.28
1	Q	127	GLY	C-N-CA	5.04	127.04	120.28
1	9	75	GLU	CB-CG-CD	-5.04	104.03	112.60
1	gc	26	VAL	CA-C-N	5.04	127.36	120.46
1	gc	26	VAL	C-N-CA	5.04	127.36	120.46
1	gI	170	LYS	CA-C-O	5.04	126.29	120.90
1	gJ	52	LEU	O-C-N	5.04	127.46	122.12
1	1F	14	ALA	CA-C-N	5.04	128.13	120.77
1	1F	14	ALA	C-N-CA	5.04	128.13	120.77
1	h4	195	ASN	CA-C-N	5.04	124.48	119.24
1	h4	195	ASN	C-N-CA	5.04	124.48	119.24
1	hl	206	GLY	O-C-N	-5.04	116.73	121.77
1	hG	140	LYS	CA-C-O	5.04	125.89	120.55
1	hN	62	HIS	CB-CG-ND1	-5.04	115.14	122.70
1	hN	198	CYS	CA-C-N	5.04	127.03	120.28
1	hN	198	CYS	C-N-CA	5.04	127.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hT	185	MET	CA-C-O	5.04	125.76	120.42
1	i0	140	LYS	CA-C-N	5.04	127.58	120.42
1	i0	140	LYS	C-N-CA	5.04	127.58	120.42
1	iA	14	ALA	CA-C-O	-5.04	116.21	121.55
1	iE	123	PRO	N-CA-CB	-5.04	97.96	103.25
1	iE	186	THR	CA-CB-OG1	5.04	117.16	109.60
1	iS	163	ASP	CA-C-O	5.04	125.76	120.42
1	iV	75	GLU	N-CA-C	5.04	116.77	111.28
1	iV	107	THR	N-CA-CB	-5.04	102.69	110.20
1	jD	160	PRO	CB-CA-C	5.04	117.96	111.56
1	jI	130	TYR	CD1-CG-CD2	-5.04	110.54	118.10
1	jO	148	THR	N-CA-C	5.04	116.79	110.24
1	kb	168	PHE	CB-CG-CD2	5.04	129.27	120.70
1	kj	96	MET	N-CA-C	5.04	117.20	110.35
1	ky	72	THR	CA-CB-CG2	-5.04	101.93	110.50
1	23	187	GLU	CA-C-O	5.04	126.11	120.82
1	kJ	33	SER	N-CA-CB	-5.04	102.83	109.78
1	kM	168	PHE	CB-CA-C	5.04	118.79	110.88
1	kM	194	ALA	O-C-N	-5.04	116.67	122.87
1	kR	21	ASN	CA-CB-CG	-5.04	107.56	112.60
1	kT	55	MET	CG-SD-CE	-5.04	89.81	100.90
1	kZ	226	HIS	N-CA-CB	5.04	119.01	110.49
1	lt	51	ASP	N-CA-C	5.04	116.77	111.28
1	lw	59	VAL	N-CA-C	5.04	115.49	108.84
1	lz	11	VAL	N-CA-CB	-5.04	103.09	111.36
1	29	135	ILE	CA-C-N	5.04	127.80	120.79
1	29	135	ILE	C-N-CA	5.04	127.80	120.79
1	lC	27	VAL	N-CA-C	-5.04	105.58	110.42
1	2f	82	ARG	O-C-N	-5.04	116.41	122.15
1	2F	229	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	2M	53	ASN	CA-CB-CG	-5.04	107.56	112.60
1	37	141	ILE	CA-C-O	-5.04	116.03	121.27
1	3c	53	ASN	CA-C-O	5.04	125.89	120.70
1	3e	200	THR	N-CA-CB	5.04	117.32	110.01
1	3m	129	ILE	CA-C-O	-5.04	115.71	120.95
1	3r	183	ASN	CA-C-N	5.04	126.99	120.44
1	3r	183	ASN	C-N-CA	5.04	126.99	120.44
1	3x	64	ALA	CA-C-O	-5.04	115.53	120.82
1	3F	141	ILE	CB-CA-C	-5.04	105.42	112.02
1	3F	196	PRO	N-CA-CB	5.04	108.54	103.25
1	3O	173	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	4k	69	LEU	CA-C-N	5.04	127.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4k	69	LEU	C-N-CA	5.04	127.03	120.28
1	4B	193	ASN	N-CA-C	-5.04	106.44	112.59
1	55	82	ARG	CA-C-N	5.04	126.99	120.44
1	55	82	ARG	C-N-CA	5.04	126.99	120.44
1	57	229	ARG	CD-NE-CZ	-5.04	117.34	124.40
1	5q	196	PRO	O-C-N	-5.04	115.29	122.35
1	5N	195	ASN	O-C-N	-5.04	116.11	121.30
1	5Q	167	ARG	CG-CD-NE	-5.04	100.91	112.00
1	6l	149	SER	N-CA-CB	5.04	118.20	110.49
1	6r	124	ILE	CA-C-O	-5.04	116.30	119.12
1	6x	123	PRO	CA-C-O	-5.04	115.71	121.86
1	6x	165	VAL	CA-CB-CG2	5.04	118.97	110.40
1	7g	100	ARG	N-CA-CB	-5.04	103.23	110.44
1	7h	91	ILE	CA-C-O	5.04	125.25	120.31
1	7q	213	GLU	CB-CA-C	-5.04	102.75	110.81
1	7x	48	THR	CA-CB-OG1	5.04	117.16	109.60
1	7A	64	ALA	CA-C-O	5.04	126.61	121.07
1	7F	91	ILE	CA-C-N	5.04	128.43	120.97
1	7F	91	ILE	C-N-CA	5.04	128.43	120.97
1	7S	210	THR	N-CA-C	-5.04	103.28	110.59
1	7T	230	VAL	CA-C-O	-5.04	114.67	121.32
1	82	224	PRO	N-CA-C	5.04	122.85	112.47
1	8b	193	ASN	N-CA-C	5.04	119.41	113.16
1	8c	226	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	8v	17	PRO	N-CA-C	-5.04	106.18	114.75
1	8I	126	VAL	CA-CB-CG1	-5.04	101.83	110.40
1	8R	77	ALA	N-CA-CB	5.04	117.53	110.12
1	97	18	ARG	NE-CZ-NH2	5.04	123.74	119.20
1	9h	34	PRO	N-CA-C	-5.04	108.05	114.35
1	9m	111	LEU	CA-C-N	5.04	127.34	120.54
1	9m	111	LEU	C-N-CA	5.04	127.34	120.54
1	9E	120	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	9U	145	TYR	CA-CB-CG	-5.04	104.83	113.90
1	a3	150	ILE	CA-CB-CG1	5.04	118.97	110.40
1	a8	227	LYS	O-C-N	-5.04	118.03	123.42
1	an	3	VAL	CA-C-N	5.04	130.09	122.68
1	an	3	VAL	C-N-CA	5.04	130.09	122.68
1	an	177	ALA	CA-C-O	5.04	126.00	120.31
1	ao	161	PHE	CA-C-N	5.04	127.03	120.28
1	ao	161	PHE	C-N-CA	5.04	127.03	120.28
1	aC	93	PRO	CB-CA-C	5.04	119.88	111.56
1	aH	108	THR	O-C-N	-5.04	116.25	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aQ	143	ARG	N-CA-CB	-5.04	102.70	110.16
1	aX	200	THR	O-C-N	-5.04	116.40	122.15
1	bj	73	ILE	N-CA-C	5.04	115.26	110.42
1	bv	95	GLN	CG-CD-NE2	-5.04	108.84	116.40
1	bz	143	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	bC	229	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	bQ	117	TRP	O-C-N	-5.04	116.78	122.12
1	bW	163	ASP	CA-CB-CG	5.04	117.64	112.60
1	bZ	121	ASN	N-CA-CB	-5.04	101.31	110.23
1	c3	162	ARG	O-C-N	-5.04	116.85	122.09
1	cB	150	ILE	CA-C-N	-5.04	113.26	122.38
1	cB	150	ILE	C-N-CA	-5.04	113.26	122.38
1	cC	226	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	cQ	167	ARG	N-CA-C	5.04	116.85	111.36
1	d3	117	TRP	CG-CD2-CE3	5.04	138.94	133.90
1	1l	213	GLU	CA-C-N	5.04	127.28	120.38
1	1l	213	GLU	C-N-CA	5.04	127.28	120.38
1	dH	10	MET	N-CA-CB	5.04	118.71	110.39
1	e3	210	THR	N-CA-CB	5.04	117.44	109.83
1	eh	151	LEU	N-CA-CB	-5.04	102.46	110.22
1	ex	52	LEU	CA-C-N	5.04	127.03	120.28
1	ex	52	LEU	C-N-CA	5.04	127.03	120.28
1	eA	176	GLN	CB-CG-CD	5.04	121.17	112.60
1	eC	12	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	eO	7	GLN	N-CA-C	5.04	120.27	113.72
1	eW	120	HIS	CA-CB-CG	-5.04	108.76	113.80
1	f0	81	ASP	N-CA-CB	-5.04	102.70	110.01
1	fd	74	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	1x	101	GLY	O-C-N	-5.04	116.90	122.24
1	fG	100	ARG	CG-CD-NE	-5.04	100.91	112.00
1	1B	226	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	x	71	GLU	CA-CB-CG	5.04	124.18	114.10
1	N	223	GLY	O-C-N	-5.04	116.73	121.77
1	4	133	TRP	O-C-N	-5.04	116.78	122.12
1	gh	174	ALA	O-C-N	5.04	127.33	122.09
1	gj	198	CYS	CA-C-O	5.04	125.89	120.55
1	gl	209	ALA	N-CA-C	5.04	121.53	110.80
1	go	163	ASP	CA-CB-CG	-5.04	107.56	112.60
1	gp	143	ARG	NH1-CZ-NH2	5.04	125.85	119.30
1	gs	100	ARG	NH1-CZ-NH2	5.04	125.85	119.30
1	gu	13	GLN	N-CA-C	-5.04	101.42	109.23
1	1E	139	ASN	CA-CB-CG	-5.04	107.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gG	210	THR	O-C-N	5.04	128.72	123.03
1	gH	110	THR	N-CA-CB	5.04	118.11	110.45
1	gI	32	PHE	N-CA-C	5.04	116.69	108.63
1	gK	31	ALA	O-C-N	-5.04	113.32	121.23
1	gP	146	SER	CA-C-N	5.04	126.14	119.84
1	gP	146	SER	C-N-CA	5.04	126.14	119.84
1	gT	26	VAL	CA-CB-CG1	5.04	118.96	110.40
1	gY	208	ALA	CA-C-O	-5.04	113.39	119.49
1	1I	162	ARG	N-CA-C	5.04	116.46	111.07
1	hi	101	GLY	CA-C-O	5.04	129.34	120.57
1	ho	38	PRO	CA-C-O	-5.04	112.44	119.74
1	ho	91	ILE	O-C-N	-5.04	117.44	123.03
1	hs	119	THR	O-C-N	-5.04	115.82	122.42
1	hQ	133	TRP	O-C-N	-5.04	116.88	122.07
1	hR	201	ILE	CA-C-N	5.04	126.99	120.44
1	hR	201	ILE	C-N-CA	5.04	126.99	120.44
1	hW	161	PHE	CA-C-N	5.04	127.97	120.31
1	hW	161	PHE	C-N-CA	5.04	127.97	120.31
1	hX	41	SER	N-CA-C	5.04	117.16	111.11
1	hY	87	HIS	CB-CG-CD2	-5.04	124.65	131.20
1	hY	89	GLY	CA-C-N	5.04	126.14	119.84
1	hY	89	GLY	C-N-CA	5.04	126.14	119.84
1	i0	28	GLU	O-C-N	-5.04	116.32	122.22
1	i7	66	MET	O-C-N	-5.04	116.85	122.09
1	i9	213	GLU	CA-C-O	5.04	125.73	119.79
1	ib	12	HIS	CA-CB-CG	5.04	118.84	113.80
1	ij	31	ALA	N-CA-C	5.04	115.97	108.31
1	is	44	SER	O-C-N	-5.04	115.92	122.37
1	iw	162	ARG	CB-CG-CD	5.04	122.89	111.30
1	1Q	84	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	iD	95	GLN	N-CA-CB	5.04	117.40	109.69
1	iF	1	PRO	CA-N-CD	-5.04	104.95	112.00
1	iH	175	GLU	N-CA-C	5.04	118.53	112.38
1	iP	173	ARG	CG-CD-NE	-5.04	100.92	112.00
1	iQ	190	LEU	CA-C-N	5.04	129.31	121.35
1	iQ	190	LEU	C-N-CA	5.04	129.31	121.35
1	iV	133	TRP	CA-CB-CG	5.04	123.17	113.60
1	iY	223	GLY	CA-C-O	-5.04	114.31	121.52
1	j2	15	ILE	O-C-N	-5.04	117.12	122.61
1	jb	165	VAL	CA-C-N	5.04	126.99	120.44
1	jb	165	VAL	C-N-CA	5.04	126.99	120.44
1	jd	147	PRO	CA-C-O	-5.04	112.83	118.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ji	184	TRP	CA-C-N	5.04	126.99	120.44
1	ji	184	TRP	C-N-CA	5.04	126.99	120.44
1	1V	27	VAL	CA-C-O	5.04	126.19	120.95
1	1V	166	ASP	CB-CA-C	5.04	118.87	110.81
1	jn	210	THR	CA-CB-CG2	5.04	119.06	110.50
1	jt	108	THR	O-C-N	-5.04	116.25	122.25
1	jv	16	SER	N-CA-C	5.04	116.42	110.07
1	jT	87	HIS	CB-CA-C	-5.04	102.20	110.72
1	k1	199	LYS	O-C-N	-5.04	116.78	122.12
1	k6	23	TRP	O-C-N	-5.04	116.85	122.09
1	kd	127	GLY	CA-C-O	5.04	126.00	120.66
1	kf	16	SER	CA-CB-OG	5.04	121.18	111.10
1	kD	185	MET	O-C-N	-5.04	116.78	122.12
1	kD	226	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	kI	212	GLU	N-CA-C	5.04	116.77	111.28
1	kL	228	ALA	CA-C-O	5.04	127.05	121.56
1	kN	127	GLY	O-C-N	-5.04	117.30	122.19
1	kR	52	LEU	O-C-N	5.04	127.53	122.09
1	kT	14	ALA	CA-C-N	5.04	131.04	121.97
1	kT	14	ALA	C-N-CA	5.04	131.04	121.97
1	kT	156	GLY	N-CA-C	5.04	122.62	112.34
1	kT	194	ALA	CA-C-N	5.04	127.64	120.49
1	kT	194	ALA	C-N-CA	5.04	127.64	120.49
1	kZ	55	MET	N-CA-C	5.04	116.77	111.28
1	l8	224	PRO	CB-CA-C	5.04	119.87	111.56
1	lb	84	HIS	CA-CB-CG	-5.04	108.76	113.80
1	lv	10	MET	O-C-N	-5.04	115.89	122.59
1	lw	167	ARG	N-CA-C	-5.04	105.87	111.36
1	lA	133	TRP	CG-CD1-NE1	-5.04	103.65	110.20
1	29	1	PRO	CB-CA-C	5.04	119.67	110.10
1	29	10	MET	CG-SD-CE	-5.04	89.82	100.90
1	29	215	MET	N-CA-CB	5.04	117.62	110.16
1	2e	12	HIS	ND1-CG-CD2	-5.04	101.06	106.10
1	2h	99	PRO	N-CA-C	5.04	119.00	111.14
1	2i	198	CYS	CA-C-O	-5.04	115.53	120.82
1	2r	37	ILE	N-CA-C	5.04	119.77	108.88
1	2s	211	LEU	CA-C-N	5.04	127.34	120.54
1	2s	211	LEU	C-N-CA	5.04	127.34	120.54
1	2t	159	GLU	N-CA-C	5.04	116.00	109.65
1	2x	90	PRO	CA-C-N	5.04	128.74	121.18
1	2x	90	PRO	C-N-CA	5.04	128.74	121.18
1	2J	117	TRP	CZ3-CH2-CZ2	-5.04	114.95	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2N	9	GLN	CG-CD-NE2	5.04	123.96	116.40
1	2S	150	ILE	N-CA-CB	5.04	118.76	112.26
1	32	5	ASN	CA-C-O	5.04	127.75	121.81
1	37	179	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	3a	34	PRO	N-CD-CG	5.04	110.76	103.20
1	3h	18	ARG	CB-CG-CD	5.04	122.89	111.30
1	3i	159	GLU	CA-C-O	-5.04	115.28	119.76
1	3j	187	GLU	CA-C-O	5.04	125.89	120.55
1	3s	27	VAL	CA-CB-CG2	-5.04	101.83	110.40
1	3B	177	ALA	CA-C-N	5.04	128.82	121.31
1	3B	177	ALA	C-N-CA	5.04	128.82	121.31
1	3D	201	ILE	N-CA-C	5.04	115.65	110.36
1	3G	92	GLU	N-CA-CB	5.04	117.89	109.98
1	3I	226	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	3Y	36	VAL	CA-C-N	5.04	124.36	120.33
1	3Y	36	VAL	C-N-CA	5.04	124.36	120.33
1	3Y	73	ILE	CA-C-N	5.04	127.03	120.28
1	3Y	73	ILE	C-N-CA	5.04	127.03	120.28
1	42	211	LEU	O-C-N	5.04	129.18	122.43
1	45	114	GLN	N-CA-CB	5.04	117.32	110.01
1	4i	100	ARG	CA-C-N	5.04	125.57	119.98
1	4i	100	ARG	C-N-CA	5.04	125.57	119.98
1	4o	101	GLY	CA-C-N	5.04	127.97	120.31
1	4o	101	GLY	C-N-CA	5.04	127.97	120.31
1	4p	87	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	4q	169	TYR	CA-CB-CG	-5.04	104.83	113.90
1	4v	173	ARG	CD-NE-CZ	-5.04	117.35	124.40
1	4D	208	ALA	CA-C-O	5.04	125.42	119.48
1	4K	184	TRP	O-C-N	-5.04	116.78	122.12
1	4U	34	PRO	N-CA-C	5.04	121.12	113.81
1	4V	172	LEU	O-C-N	-5.04	115.89	122.59
1	4Z	8	GLY	CA-C-N	5.04	127.86	120.71
1	4Z	8	GLY	C-N-CA	5.04	127.86	120.71
1	52	21	ASN	CA-CB-CG	-5.04	107.56	112.60
1	5e	14	ALA	N-CA-CB	-5.04	102.63	110.04
1	5j	57	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	5l	192	GLN	N-CA-C	5.04	116.46	111.07
1	5o	128	GLU	N-CA-C	5.04	117.43	111.33
1	5r	11	VAL	CA-CB-CG1	5.04	118.96	110.40
1	5r	112	GLN	N-CA-C	5.04	116.77	111.28
1	5s	80	TRP	N-CA-C	5.04	116.46	111.07
1	5w	175	GLU	N-CA-CB	5.04	117.40	109.69

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5x	11	VAL	CA-CB-CG2	5.04	118.97	110.40
1	5M	196	PRO	CA-C-N	5.04	127.03	120.28
1	5M	196	PRO	C-N-CA	5.04	127.03	120.28
1	5R	97	ARG	N-CA-C	5.04	117.20	110.35
1	5S	169	TYR	O-C-N	-5.04	116.78	122.12
1	65	61	GLY	N-CA-C	5.04	117.87	112.33
1	65	107	THR	N-CA-CB	5.04	117.67	110.67
1	6c	176	GLN	N-CA-C	-5.04	106.05	113.61
1	6f	102	SER	CA-C-O	5.04	125.56	119.31
1	6h	130	TYR	CA-C-O	5.04	125.76	119.97
1	6m	57	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	6p	157	PRO	CA-C-O	-5.04	111.33	119.84
1	6E	158	LYS	N-CA-C	-5.04	106.72	112.92
1	6G	100	ARG	CG-CD-NE	-5.04	100.92	112.00
1	6G	126	VAL	CA-C-N	5.04	125.43	119.94
1	6G	126	VAL	C-N-CA	5.04	125.43	119.94
1	6M	213	GLU	N-CA-CB	-5.04	102.03	110.39
1	6P	3	VAL	O-C-N	-5.04	117.94	123.18
1	6S	165	VAL	CA-C-O	-5.04	115.71	120.95
1	76	107	THR	CA-CB-OG1	5.04	117.16	109.60
1	7a	230	VAL	CA-C-O	5.04	126.62	121.63
1	7c	185	MET	N-CA-C	5.04	116.77	111.28
1	7e	211	LEU	CA-C-N	5.04	127.03	120.28
1	7e	211	LEU	C-N-CA	5.04	127.03	120.28
1	7f	167	ARG	CD-NE-CZ	5.04	131.46	124.40
1	7h	118	MET	CA-C-O	5.04	125.74	119.79
1	7i	132	ARG	CA-C-N	5.04	127.03	120.28
1	7i	132	ARG	C-N-CA	5.04	127.03	120.28
1	7m	52	LEU	CB-CA-C	5.04	119.42	110.85
1	7p	62	HIS	ND1-CG-CD2	5.04	111.14	106.10
1	7v	162	ARG	NE-CZ-NH2	-5.04	114.66	119.20
1	7P	5	ASN	CA-CB-CG	-5.04	107.56	112.60
1	7Y	12	HIS	N-CA-CB	5.04	118.63	110.42
1	7Y	150	ILE	N-CA-C	5.04	115.76	110.62
1	81	95	GLN	CA-C-N	5.04	131.16	121.54
1	81	95	GLN	C-N-CA	5.04	131.16	121.54
1	82	76	GLU	CA-C-N	5.04	127.54	120.28
1	82	76	GLU	C-N-CA	5.04	127.54	120.28
1	86	125	PRO	CA-C-N	5.04	127.36	120.46
1	86	125	PRO	C-N-CA	5.04	127.36	120.46
1	87	135	ILE	O-C-N	-5.04	116.98	121.87
1	8e	19	THR	N-CA-CB	5.04	118.06	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8l	176	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	8n	197	ASP	CA-CB-CG	5.04	117.64	112.60
1	8n	209	ALA	N-CA-C	5.04	117.53	110.23
1	8p	135	ILE	N-CA-C	5.04	115.76	110.62
1	8u	24	VAL	N-CA-CB	-5.04	104.66	110.55
1	8y	220	GLY	CA-C-N	5.04	127.10	120.60
1	8y	220	GLY	C-N-CA	5.04	127.10	120.60
1	8H	17	PRO	CB-CA-C	5.04	119.47	112.11
1	8I	168	PHE	O-C-N	-5.04	116.88	122.07
1	8S	42	ALA	N-CA-C	5.04	116.77	111.28
1	8T	50	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	8T	224	PRO	CB-CA-C	5.04	119.87	111.56
1	8X	20	LEU	O-C-N	-5.04	116.88	122.07
1	9a	107	THR	CA-C-O	-5.04	115.53	120.82
1	9c	156	GLY	O-C-N	-5.04	116.73	121.77
1	9d	44	SER	CA-C-O	5.04	125.90	119.95
1	9d	179	GLN	CA-C-O	5.04	126.29	120.90
1	9h	73	ILE	O-C-N	-5.04	116.64	121.83
1	9w	161	PHE	N-CA-CB	5.04	119.00	110.49
1	9x	112	GLN	CA-C-N	5.04	127.29	120.44
1	9x	112	GLN	C-N-CA	5.04	127.29	120.44
1	9z	10	MET	CG-SD-CE	-5.04	89.82	100.90
1	9z	45	GLU	N-CA-C	5.04	116.77	111.28
1	9F	138	LEU	O-C-N	-5.04	116.78	122.12
1	9J	62	HIS	N-CA-C	5.04	118.15	111.30
1	9O	53	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	9Q	226	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	9T	16	SER	CA-C-N	5.04	124.53	119.19
1	9T	16	SER	C-N-CA	5.04	124.53	119.19
1	9V	167	ARG	O-C-N	-5.04	115.56	122.46
1	Z	145	TYR	CB-CG-CD2	5.04	128.36	120.80
1	a2	190	LEU	N-CA-C	5.04	116.77	111.28
1	a5	53	ASN	O-C-N	5.04	127.89	122.15
1	a6	221	VAL	CA-CB-CG1	5.04	118.97	110.40
1	a9	219	GLN	O-C-N	-5.04	116.74	122.89
1	10	108	THR	N-CA-CB	5.04	118.15	110.44
1	ab	110	THR	CA-CB-OG1	5.04	117.16	109.60
1	ac	92	GLU	CA-C-O	-5.04	115.00	120.69
1	ai	50	GLN	CB-CA-C	-5.04	102.42	110.79
1	11	29	GLU	O-C-N	-5.04	115.56	122.46
1	al	210	THR	CA-C-N	5.04	127.03	120.28
1	al	210	THR	C-N-CA	5.04	127.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aD	99	PRO	CA-C-N	5.04	129.38	120.87
1	aD	99	PRO	C-N-CA	5.04	129.38	120.87
1	aF	130	TYR	CA-C-N	5.04	127.03	120.28
1	aF	130	TYR	C-N-CA	5.04	127.03	120.28
1	aM	48	THR	CB-CA-C	5.04	116.32	108.61
1	aO	193	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	aQ	3	VAL	CA-C-O	5.04	125.92	120.53
1	aX	92	GLU	N-CA-C	5.04	119.80	113.25
1	aZ	75	GLU	CB-CA-C	-5.04	102.75	110.81
1	aZ	100	ARG	CG-CD-NE	-5.04	100.92	112.00
1	b4	79	GLU	CA-C-O	5.04	125.89	120.55
1	be	2	ILE	CA-C-O	5.04	125.68	120.39
1	bi	25	LYS	CA-C-O	5.04	125.89	120.55
1	bi	121	ASN	CA-C-N	5.04	125.57	120.38
1	bi	121	ASN	C-N-CA	5.04	125.57	120.38
1	bi	121	ASN	CB-CG-ND2	-5.04	108.84	116.40
1	bz	80	TRP	CE2-CD2-CE3	-5.04	113.76	118.80
1	bC	87	HIS	CB-CG-ND1	5.04	130.26	122.70
1	1a	109	SER	CA-C-O	5.04	126.37	120.43
1	bN	95	GLN	N-CA-C	-5.04	106.82	113.17
1	c5	12	HIS	O-C-N	-5.04	117.27	122.96
1	cc	216	THR	CA-CB-CG2	5.04	119.07	110.50
1	ch	199	LYS	O-C-N	-5.04	116.78	122.12
1	cm	148	THR	OG1-CB-CG2	-5.04	99.22	109.30
1	cu	2	ILE	CA-C-O	5.04	126.40	120.71
1	cw	110	THR	CA-C-N	5.04	127.74	120.38
1	cw	110	THR	C-N-CA	5.04	127.74	120.38
1	cI	3	VAL	O-C-N	5.04	128.64	123.20
1	cO	82	ARG	CA-C-N	5.04	127.44	120.29
1	cO	82	ARG	C-N-CA	5.04	127.44	120.29
1	cV	98	GLU	O-C-N	-5.04	117.15	121.23
1	cV	208	ALA	O-C-N	-5.04	116.27	122.57
1	cX	124	ILE	CB-CA-C	-5.04	104.98	110.37
1	cY	4	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	d2	55	MET	N-CA-C	5.04	116.77	111.28
1	dq	5	ASN	CA-CB-CG	5.04	117.64	112.60
1	dt	59	VAL	O-C-N	-5.04	117.00	122.64
1	1m	225	GLY	N-CA-C	5.04	125.12	113.18
1	dR	143	ARG	CG-CD-NE	-5.04	100.91	112.00
1	dS	134	ILE	CB-CA-C	-5.04	105.27	112.22
1	e3	156	GLY	CA-C-N	5.04	124.34	118.85
1	e3	156	GLY	C-N-CA	5.04	124.34	118.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	e6	12	HIS	ND1-CE1-NE2	5.04	113.44	108.40
1	e6	169	TYR	CA-CB-CG	-5.04	104.83	113.90
1	e9	80	TRP	CA-C-O	-5.04	115.08	120.42
1	ee	129	ILE	N-CA-C	-5.04	105.63	110.72
1	eg	117	TRP	O-C-N	-5.04	116.41	122.15
1	er	169	TYR	N-CA-C	5.04	117.17	111.02
1	es	143	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	1r	6	LEU	CA-C-N	5.04	130.00	122.74
1	1r	6	LEU	C-N-CA	5.04	130.00	122.74
1	eC	34	PRO	CA-C-N	5.04	127.28	120.38
1	eC	34	PRO	C-N-CA	5.04	127.28	120.38
1	eJ	59	VAL	N-CA-C	5.04	115.60	109.30
1	eJ	70	LYS	O-C-N	-5.04	116.41	122.15
1	eO	156	GLY	CA-C-O	-5.04	114.32	121.52
1	1t	171	THR	CA-CB-OG1	5.04	117.16	109.60
1	eV	84	HIS	N-CA-CB	-5.04	101.97	110.38
1	f4	177	ALA	CA-C-N	5.04	128.23	120.82
1	f4	177	ALA	C-N-CA	5.04	128.23	120.82
1	fa	127	GLY	CA-C-N	5.04	127.53	120.28
1	fa	127	GLY	C-N-CA	5.04	127.53	120.28
1	fa	221	VAL	O-C-N	-5.04	116.27	122.57
1	fb	163	ASP	N-CA-CB	-5.04	102.50	110.06
1	fb	200	THR	CA-CB-CG2	5.04	119.06	110.50
1	fm	160	PRO	CB-CA-C	5.04	117.83	110.63
1	fo	68	MET	CA-C-N	5.04	127.03	120.28
1	fo	68	MET	C-N-CA	5.04	127.03	120.28
1	fp	4	GLN	N-CA-C	5.04	121.53	110.80
1	ft	23	TRP	CB-CG-CD2	-5.04	119.75	126.80
1	fu	4	GLN	CA-C-N	5.04	127.44	120.29
1	fu	4	GLN	C-N-CA	5.04	127.44	120.29
1	fu	219	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	fy	95	GLN	CB-CG-CD	5.04	121.17	112.60
1	fz	227	LYS	CA-C-O	5.04	125.86	120.32
1	1y	33	SER	O-C-N	-5.04	117.90	121.83
1	fR	173	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	fT	37	ILE	N-CA-C	5.04	118.40	112.35
1	g5	111	LEU	N-CA-C	5.04	117.43	111.33
1	c	165	VAL	CB-CA-C	-5.04	105.34	112.14
1	d	217	ALA	CA-C-O	5.04	125.89	120.70
1	l	216	THR	N-CA-CB	5.04	117.38	110.07
1	o	76	GLU	O-C-N	-5.04	116.41	122.15
1	y	76	GLU	N-CA-C	5.04	116.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	219	GLN	O-C-N	-5.04	117.42	123.27
1	Q	19	THR	O-C-N	5.04	127.46	122.12
1	W	158	LYS	CA-C-N	5.04	127.64	120.49
1	W	158	LYS	C-N-CA	5.04	127.64	120.49
1	g8	116	GLY	O-C-N	-5.04	117.30	122.19
1	gb	77	ALA	CA-C-N	5.04	127.44	120.29
1	gb	77	ALA	C-N-CA	5.04	127.44	120.29
1	1C	79	GLU	O-C-N	-5.04	116.08	122.27
1	gn	193	ASN	CA-C-O	5.04	125.45	119.56
1	gu	62	HIS	CA-CB-CG	-5.04	108.76	113.80
1	gE	154	ARG	O-C-N	-5.04	117.64	123.33
1	he	18	ARG	NE-CZ-NH2	-5.04	114.67	119.20
1	1I	173	ARG	CA-C-N	5.04	127.03	120.28
1	1I	173	ARG	C-N-CA	5.04	127.03	120.28
1	hk	26	VAL	CG1-CB-CG2	-5.04	99.72	110.80
1	hm	115	ILE	CA-CB-CG2	5.04	119.06	110.50
1	hr	135	ILE	CB-CA-C	5.04	118.94	112.14
1	hN	3	VAL	CA-C-N	5.04	129.95	123.00
1	hN	3	VAL	C-N-CA	5.04	129.95	123.00
1	hW	134	ILE	N-CA-C	5.04	115.19	110.30
1	i4	130	TYR	CA-C-O	5.04	125.89	120.55
1	ie	94	GLY	CA-C-N	5.04	128.36	120.75
1	ie	94	GLY	C-N-CA	5.04	128.36	120.75
1	it	9	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	iK	16	SER	CB-CA-C	-5.04	101.48	109.09
1	iX	133	TRP	CZ3-CH2-CZ2	5.04	128.05	121.50
1	1T	97	ARG	O-C-N	-5.04	115.89	122.59
1	je	199	LYS	CA-C-N	5.04	127.03	120.28
1	je	199	LYS	C-N-CA	5.04	127.03	120.28
1	jt	59	VAL	CG1-CB-CG2	-5.04	99.72	110.80
1	jB	113	GLU	CB-CA-C	5.04	118.79	110.88
1	jB	146	SER	CA-C-O	-5.04	114.50	119.49
1	jH	132	ARG	O-C-N	-5.04	116.78	122.12
1	jO	72	THR	CA-C-O	-5.04	115.21	120.55
1	jO	168	PHE	CB-CG-CD2	5.04	129.26	120.70
1	k8	59	VAL	O-C-N	-5.04	116.90	121.94
1	km	182	LYS	N-CA-CB	5.04	117.53	110.12
1	ku	87	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	kG	115	ILE	N-CA-C	5.04	115.76	110.62
1	ld	110	THR	CA-CB-OG1	5.04	117.16	109.60
1	lG	155	GLN	O-C-N	-5.04	116.92	122.86
1	lI	41	SER	O-C-N	-5.04	116.78	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2d	118	MET	CA-C-O	5.04	125.89	120.55
1	2g	190	LEU	CA-C-N	5.04	127.36	120.46
1	2g	190	LEU	C-N-CA	5.04	127.36	120.46
1	2k	21	ASN	N-CA-CB	-5.04	102.71	110.01
1	2u	214	MET	N-CA-C	5.04	117.42	111.33
1	2x	63	GLN	CB-CG-CD	5.04	121.16	112.60
1	2A	84	HIS	CA-C-N	5.04	126.14	119.84
1	2A	84	HIS	C-N-CA	5.04	126.14	119.84
1	2U	102	SER	N-CA-CB	5.04	117.31	110.01
1	3j	117	TRP	CD2-CE3-CZ3	-5.04	112.05	118.60
1	3D	85	PRO	CA-C-N	5.04	127.33	120.63
1	3D	85	PRO	C-N-CA	5.04	127.33	120.63
1	3H	105	ALA	N-CA-CB	-5.04	102.70	110.46
1	3U	219	GLN	CA-CB-CG	5.04	124.17	114.10
1	40	174	ALA	N-CA-CB	-5.04	102.03	110.39
1	4f	78	ALA	N-CA-C	-5.04	105.68	111.07
1	4w	42	ALA	O-C-N	-5.04	116.78	122.12
1	4V	122	PRO	CA-C-N	5.04	125.31	119.92
1	4V	122	PRO	C-N-CA	5.04	125.31	119.92
1	4X	104	ILE	O-C-N	-5.04	116.64	121.83
1	50	19	THR	OG1-CB-CG2	-5.04	99.22	109.30
1	54	199	LYS	CA-C-N	5.04	127.34	120.54
1	54	199	LYS	C-N-CA	5.04	127.34	120.54
1	56	14	ALA	N-CA-C	5.04	118.16	110.20
1	5b	155	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	5f	95	GLN	O-C-N	-5.04	117.05	122.79
1	5r	87	HIS	N-CA-CB	5.04	117.95	110.29
1	5Q	53	ASN	CA-C-N	5.04	126.99	120.44
1	5Q	53	ASN	C-N-CA	5.04	126.99	120.44
1	5Q	67	GLN	CG-CD-NE2	5.04	123.95	116.40
1	6g	88	ALA	O-C-N	-5.04	117.31	123.10
1	6l	54	THR	O-C-N	-5.04	116.85	122.09
1	6l	120	HIS	CA-CB-CG	-5.04	108.76	113.80
1	6o	226	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
1	6O	177	ALA	CA-C-O	5.04	126.43	120.89
1	6Y	144	MET	CG-SD-CE	-5.04	89.82	100.90
1	70	58	THR	O-C-N	-5.04	115.82	122.42
1	70	149	SER	CA-C-N	5.04	128.43	120.47
1	70	149	SER	C-N-CA	5.04	128.43	120.47
1	74	163	ASP	N-CA-C	5.04	116.85	111.36
1	76	27	VAL	CA-C-O	-5.04	116.03	121.27
1	78	166	ASP	N-CA-C	5.04	116.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	79	159	GLU	O-C-N	-5.04	115.79	121.43
1	7c	120	HIS	CA-CB-CG	5.04	118.84	113.80
1	7c	161	PHE	CA-C-O	5.04	127.71	120.51
1	7D	57	ASN	CA-CB-CG	-5.04	107.56	112.60
1	7I	20	LEU	N-CA-CB	5.04	117.61	110.16
1	83	133	TRP	CB-CG-CD1	5.04	134.46	126.90
1	8i	19	THR	OG1-CB-CG2	-5.04	99.22	109.30
1	8m	214	MET	CB-CA-C	5.04	119.15	110.79
1	8q	34	PRO	CA-C-N	5.04	129.13	120.72
1	8q	34	PRO	C-N-CA	5.04	129.13	120.72
1	8B	189	LEU	CD1-CG-CD2	-5.04	99.72	110.80
1	8H	162	ARG	NE-CZ-NH1	5.04	126.54	121.50
1	93	17	PRO	CA-C-N	5.04	126.99	120.44
1	93	17	PRO	C-N-CA	5.04	126.99	120.44
1	93	161	PHE	CA-C-O	5.04	125.89	120.55
1	95	13	GLN	CG-CD-OE1	5.04	130.87	120.80
1	9f	53	ASN	N-CA-CB	5.04	117.52	110.12
1	9g	143	ARG	CG-CD-NE	-5.04	100.92	112.00
1	9y	67	GLN	OE1-CD-NE2	5.04	127.64	122.60
1	9H	215	MET	O-C-N	-5.04	116.33	122.22
1	a4	54	THR	CB-CA-C	5.04	119.15	110.79
1	ao	50	GLN	CG-CD-NE2	5.04	123.96	116.40
1	aA	155	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	b4	169	TYR	N-CA-CB	5.04	118.09	110.28
1	bf	119	THR	CA-CB-OG1	5.04	117.16	109.60
1	bu	184	TRP	CB-CG-CD1	5.04	134.46	126.90
1	bN	185	MET	N-CA-CB	5.04	117.52	110.12
1	bO	112	GLN	CA-C-N	5.04	127.03	120.28
1	bO	112	GLN	C-N-CA	5.04	127.03	120.28
1	bO	166	ASP	N-CA-CB	-5.04	102.72	110.12
1	bU	142	VAL	CA-C-O	5.04	126.51	121.17
1	ca	76	GLU	N-CA-C	5.04	116.77	111.28
1	ce	221	VAL	O-C-N	5.04	127.02	121.83
1	cq	75	GLU	CA-C-N	5.04	126.99	120.44
1	cq	75	GLU	C-N-CA	5.04	126.99	120.44
1	cs	64	ALA	N-CA-C	5.04	117.17	111.02
1	1f	34	PRO	O-C-N	5.04	129.44	122.64
1	dd	167	ARG	N-CA-C	5.04	116.85	111.36
1	dk	200	THR	CA-C-O	5.04	125.89	120.55
1	du	120	HIS	CA-C-O	5.04	126.88	121.44
1	dx	229	ARG	O-C-N	-5.04	116.37	122.82
1	1n	227	LYS	CB-CG-CD	5.04	122.89	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ee	112	GLN	CG-CD-NE2	5.04	123.96	116.40
1	eF	140	LYS	O-C-N	-5.04	116.41	122.15
1	eH	36	VAL	N-CA-C	-5.04	104.79	111.09
1	eJ	74	ASN	CA-CB-CG	5.04	117.64	112.60
1	eT	43	LEU	N-CA-C	5.04	118.69	112.54
1	eX	140	LYS	N-CA-C	5.04	116.77	111.28
1	f5	203	LYS	CG-CD-CE	5.04	122.89	111.30
1	1v	28	GLU	CB-CA-C	-5.04	102.29	110.85
1	fj	228	ALA	O-C-N	-5.04	117.33	123.27
1	fl	38	PRO	N-CA-C	-5.04	106.65	113.40
1	fx	2	ILE	CA-CB-CG1	5.04	118.96	110.40
1	1y	5	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	fL	10	MET	CB-CA-C	5.04	118.05	109.84
1	1A	82	ARG	CB-CG-CD	5.04	122.89	111.30
1	g	70	LYS	CG-CD-CE	5.04	122.89	111.30
1	z	183	ASN	N-CA-C	5.04	116.46	111.07
1	I	5	ASN	CA-CB-CG	5.04	117.64	112.60
1	4	48	THR	O-C-N	-5.04	116.26	121.60
1	ga	10	MET	N-CA-C	5.04	117.34	110.24
1	gh	95	GLN	OE1-CD-NE2	5.04	127.64	122.60
1	1C	147	PRO	CA-C-O	-5.04	115.79	121.43
1	gq	68	MET	N-CA-C	5.04	116.77	111.28
1	gM	167	ARG	CA-C-N	5.04	127.79	120.79
1	gM	167	ARG	C-N-CA	5.04	127.79	120.79
1	gS	167	ARG	CD-NE-CZ	5.04	131.45	124.40
1	gT	161	PHE	CA-C-N	5.04	127.34	120.54
1	gT	161	PHE	C-N-CA	5.04	127.34	120.54
1	gV	210	THR	CA-C-N	5.04	127.28	120.38
1	gV	210	THR	C-N-CA	5.04	127.28	120.38
1	hi	206	GLY	N-CA-C	5.04	122.61	112.34
1	hp	169	TYR	O-C-N	5.04	127.46	122.12
1	hr	70	LYS	N-CA-C	5.04	116.85	111.36
1	ht	196	PRO	N-CA-C	-5.04	106.65	113.40
1	hv	43	LEU	N-CA-C	-5.04	106.73	112.92
1	hB	59	VAL	N-CA-C	5.04	115.49	108.84
1	hC	2	ILE	CB-CA-C	-5.04	103.12	110.62
1	hL	163	ASP	CA-C-O	5.04	125.89	120.55
1	hU	214	MET	O-C-N	-5.04	116.78	122.12
1	hY	191	VAL	CA-C-N	5.04	127.53	120.28
1	hY	191	VAL	C-N-CA	5.04	127.53	120.28
1	i3	128	GLU	CA-C-O	5.04	125.76	120.42
1	i8	73	ILE	N-CA-CB	-5.04	103.69	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ib	101	GLY	O-C-N	-5.04	116.90	122.24
1	if	209	ALA	N-CA-C	5.04	117.53	110.23
1	iw	128	GLU	N-CA-C	5.04	116.85	111.36
1	iy	58	THR	O-C-N	5.04	128.94	122.39
1	iz	116	GLY	O-C-N	-5.04	117.36	122.19
1	iV	168	PHE	CA-C-O	5.04	125.89	120.70
1	iW	63	GLN	CA-C-O	5.04	126.11	120.82
1	iX	163	ASP	O-C-N	5.04	127.46	122.12
1	j8	183	ASN	N-CA-C	5.04	116.77	111.28
1	1U	105	ALA	CA-C-O	5.04	125.72	119.12
1	jc	97	ARG	NE-CZ-NH1	-5.04	116.47	121.50
1	je	120	HIS	N-CA-C	5.04	117.03	110.43
1	jj	87	HIS	CG-CD2-NE2	5.04	112.23	107.20
1	jz	112	GLN	CA-C-N	5.04	127.44	120.29
1	jz	112	GLN	C-N-CA	5.04	127.44	120.29
1	jT	53	ASN	CA-C-N	5.04	127.44	120.29
1	jT	53	ASN	C-N-CA	5.04	127.44	120.29
1	k9	216	THR	CA-C-N	5.04	128.02	120.87
1	k9	216	THR	C-N-CA	5.04	128.02	120.87
1	ka	52	LEU	CB-CA-C	5.04	119.15	110.79
1	kk	203	LYS	N-CA-CB	5.04	117.61	110.16
1	kq	200	THR	N-CA-C	5.04	116.77	111.28
1	kC	63	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	kN	205	LEU	O-C-N	5.04	128.54	122.35
1	kP	140	LYS	O-C-N	-5.04	116.33	122.22
1	kT	122	PRO	CA-C-N	5.04	125.04	119.90
1	kT	122	PRO	C-N-CA	5.04	125.04	119.90
1	kW	6	LEU	N-CA-C	-5.04	106.98	113.02
1	kX	180	GLU	CA-C-O	5.04	125.89	120.55
1	25	9	GLN	CG-CD-NE2	5.04	123.95	116.40
1	kY	179	GLN	N-CA-CB	5.04	117.52	110.12
1	kZ	111	LEU	O-C-N	-5.04	116.78	122.12
1	kZ	160	PRO	N-CA-C	5.04	122.84	112.47
1	l5	179	GLN	CB-CG-CD	5.04	121.16	112.60
1	l6	209	ALA	N-CA-C	5.04	117.53	110.23
1	ld	21	ASN	CA-C-O	5.04	125.76	120.42
1	ld	188	THR	N-CA-CB	5.04	119.00	110.49
1	lf	179	GLN	CA-C-N	5.04	127.03	120.28
1	lf	179	GLN	C-N-CA	5.04	127.03	120.28
1	li	120	HIS	CG-CD2-NE2	5.04	112.23	107.20
1	lv	52	LEU	N-CA-C	5.04	116.85	111.36
1	lF	157	PRO	O-C-N	-5.04	115.72	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	74	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	lN	222	GLY	O-C-N	-5.04	116.15	122.70
1	lQ	23	TRP	CH2-CZ2-CE2	5.04	124.05	117.50
1	lR	62	HIS	N-CA-C	5.04	118.72	112.58
1	2e	202	LEU	CA-C-O	5.04	125.76	120.42
1	2i	214	MET	CA-C-O	5.04	125.89	120.55
1	2k	37	ILE	CA-C-N	5.04	124.34	118.85
1	2k	37	ILE	C-N-CA	5.04	124.34	118.85
1	2q	226	HIS	CA-CB-CG	-5.04	108.77	113.80
1	2r	124	ILE	O-C-N	-5.04	117.19	121.57
1	2r	215	MET	CA-C-N	5.04	129.24	120.68
1	2r	215	MET	C-N-CA	5.04	129.24	120.68
1	2A	99	PRO	N-CA-CB	5.04	107.72	103.19
1	2C	95	GLN	O-C-N	-5.04	117.42	123.31
1	2I	154	ARG	CG-CD-NE	-5.04	100.92	112.00
1	2O	67	GLN	CA-C-N	5.04	126.99	120.44
1	2O	67	GLN	C-N-CA	5.04	126.99	120.44
1	2O	154	ARG	CA-C-N	5.04	128.70	121.50
1	2O	154	ARG	C-N-CA	5.04	128.70	121.50
1	2P	117	TRP	CA-C-N	5.04	127.53	120.28
1	2P	117	TRP	C-N-CA	5.04	127.53	120.28
1	2T	92	GLU	N-CA-C	5.04	116.23	109.83
1	2X	164	TYR	CA-C-N	5.04	126.91	120.56
1	2X	164	TYR	C-N-CA	5.04	126.91	120.56
1	30	21	ASN	N-CA-CB	-5.04	102.47	110.28
1	30	22	ALA	CA-C-N	5.04	127.03	120.28
1	30	22	ALA	C-N-CA	5.04	127.03	120.28
1	30	44	SER	N-CA-CB	5.04	119.85	111.49
1	32	163	ASP	CA-C-O	5.04	124.59	119.05
1	35	172	LEU	CA-C-O	5.04	126.11	120.82
1	3h	162	ARG	CB-CG-CD	5.04	122.88	111.30
1	3h	214	MET	CG-SD-CE	-5.04	89.82	100.90
1	3l	193	ASN	CB-CA-C	-5.04	102.63	110.94
1	3p	114	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	3w	79	GLU	CA-C-O	5.04	125.89	120.55
1	3A	103	ASP	CA-CB-CG	5.04	117.64	112.60
1	3M	21	ASN	O-C-N	-5.04	116.88	122.07
1	3O	37	ILE	CA-C-N	5.04	124.34	118.85
1	3O	37	ILE	C-N-CA	5.04	124.34	118.85
1	3S	51	ASP	CA-CB-CG	-5.04	107.56	112.60
1	3T	153	ILE	CA-C-N	5.04	130.98	122.87
1	3T	153	ILE	C-N-CA	5.04	130.98	122.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3W	209	ALA	O-C-N	-5.04	116.31	123.01
1	43	227	LYS	CA-C-O	5.04	127.71	120.51
1	4g	80	TRP	N-CA-C	5.04	116.77	111.28
1	4H	87	HIS	O-C-N	-5.04	117.13	123.27
1	4J	22	ALA	CA-C-N	5.04	127.34	120.54
1	4J	22	ALA	C-N-CA	5.04	127.34	120.54
1	4M	162	ARG	NE-CZ-NH2	-5.04	114.67	119.20
1	4S	142	VAL	O-C-N	-5.04	116.91	121.94
1	4T	97	ARG	NE-CZ-NH2	-5.04	114.67	119.20
1	59	184	TRP	O-C-N	-5.04	116.88	122.07
1	5b	23	TRP	CA-C-N	5.04	127.36	120.46
1	5b	23	TRP	C-N-CA	5.04	127.36	120.46
1	5l	120	HIS	N-CA-CB	5.04	117.33	110.38
1	5q	36	VAL	CA-C-N	5.04	131.45	122.13
1	5q	36	VAL	C-N-CA	5.04	131.45	122.13
1	5x	54	THR	O-C-N	-5.04	116.78	122.12
1	5x	216	THR	CA-CB-OG1	5.04	117.15	109.60
1	5B	115	ILE	CA-C-N	5.04	125.53	119.94
1	5B	115	ILE	C-N-CA	5.04	125.53	119.94
1	5N	160	PRO	CB-CA-C	-5.04	103.25	111.56
1	60	183	ASN	CA-CB-CG	-5.04	107.56	112.60
1	67	190	LEU	N-CA-CB	-5.04	102.72	110.12
1	69	153	ILE	N-CA-C	5.04	116.88	109.63
1	6a	191	VAL	CA-C-N	5.04	127.03	120.28
1	6a	191	VAL	C-N-CA	5.04	127.03	120.28
1	6e	177	ALA	N-CA-C	5.04	121.52	110.80
1	6g	136	LEU	O-C-N	5.04	127.26	122.07
1	6g	216	THR	N-CA-CB	5.04	118.37	110.46
1	6n	218	CYS	N-CA-CB	-5.04	102.57	109.97
1	6o	175	GLU	N-CA-C	5.04	117.20	110.35
1	6s	76	GLU	CA-C-O	5.04	125.89	120.55
1	6t	27	VAL	N-CA-C	5.04	115.25	110.42
1	6v	26	VAL	CB-CA-C	5.04	119.97	112.16
1	6B	59	VAL	O-C-N	-5.04	116.87	122.66
1	6J	50	GLN	CA-C-N	5.04	126.98	120.44
1	6J	50	GLN	C-N-CA	5.04	126.98	120.44
1	6N	18	ARG	CA-C-N	5.04	127.34	120.54
1	6N	18	ARG	C-N-CA	5.04	127.34	120.54
1	6N	54	THR	N-CA-C	5.04	116.77	111.28
1	6Q	76	GLU	CA-C-N	5.04	126.99	120.44
1	6Q	76	GLU	C-N-CA	5.04	126.99	120.44
1	6Q	92	GLU	N-CA-C	5.04	116.73	109.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6S	114	GLN	N-CA-C	-5.04	105.79	111.28
1	6V	4	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	6V	136	LEU	N-CA-C	5.04	116.85	111.36
1	6W	76	GLU	CA-C-O	5.04	125.76	120.42
1	71	129	ILE	CA-C-O	-5.04	116.17	121.41
1	73	43	LEU	O-C-N	-5.04	116.15	122.24
1	76	164	TYR	N-CA-C	5.04	116.46	111.07
1	78	32	PHE	CA-C-N	5.04	129.09	121.03
1	78	32	PHE	C-N-CA	5.04	129.09	121.03
1	7n	14	ALA	O-C-N	-5.04	117.30	122.94
1	7M	24	VAL	CA-C-N	5.04	127.03	120.28
1	7M	24	VAL	C-N-CA	5.04	127.03	120.28
1	7T	100	ARG	N-CA-C	-5.04	102.74	110.14
1	7W	49	PRO	N-CD-CG	5.04	110.75	103.20
1	7Z	26	VAL	O-C-N	-5.04	116.97	121.91
1	81	166	ASP	CA-C-O	5.04	125.89	120.55
1	82	138	LEU	N-CA-CB	5.04	117.61	110.16
1	82	182	LYS	N-CA-CB	5.04	117.52	110.12
1	85	184	TRP	N-CA-CB	-5.04	102.71	110.01
1	8c	133	TRP	CA-C-O	5.04	125.89	120.55
1	8e	73	ILE	N-CA-CB	5.04	120.47	110.95
1	8h	132	ARG	NE-CZ-NH2	5.04	123.73	119.20
1	8l	11	VAL	O-C-N	-5.04	118.00	123.14
1	8A	14	ALA	CA-C-O	-5.04	115.21	120.80
1	8I	131	LYS	CA-C-N	5.04	127.34	120.54
1	8I	131	LYS	C-N-CA	5.04	127.34	120.54
1	8P	226	HIS	CG-CD2-NE2	5.04	112.23	107.20
1	8S	89	GLY	CA-C-N	5.04	126.13	119.84
1	8S	89	GLY	C-N-CA	5.04	126.13	119.84
1	8T	44	SER	CA-C-N	5.04	127.53	120.28
1	8T	44	SER	C-N-CA	5.04	127.53	120.28
1	91	183	ASN	OD1-CG-ND2	-5.04	117.56	122.60
1	93	30	LYS	O-C-N	-5.04	116.15	122.24
1	93	135	ILE	CA-CB-CG2	5.04	119.06	110.50
1	99	138	LEU	CA-C-N	5.04	127.03	120.28
1	99	138	LEU	C-N-CA	5.04	127.03	120.28
1	9b	55	MET	O-C-N	-5.04	116.85	122.09
1	9m	181	VAL	CA-C-N	5.04	127.03	120.28
1	9m	181	VAL	C-N-CA	5.04	127.03	120.28
1	9w	104	ILE	O-C-N	-5.04	116.98	121.87
1	9I	211	LEU	CA-C-N	5.04	127.34	120.54
1	9I	211	LEU	C-N-CA	5.04	127.34	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9M	8	GLY	N-CA-C	5.04	120.26	112.81
1	9M	80	TRP	CA-C-N	5.04	126.99	120.44
1	9M	80	TRP	C-N-CA	5.04	126.99	120.44
1	9N	168	PHE	CB-CA-C	5.04	118.86	110.90
1	9O	11	VAL	O-C-N	-5.04	117.46	123.05
1	9V	92	GLU	O-C-N	-5.04	117.62	121.55
1	a6	226	HIS	N-CA-C	-5.04	106.83	113.12
1	11	148	THR	CA-C-N	5.04	128.22	120.82
1	11	148	THR	C-N-CA	5.04	128.22	120.82
1	ax	139	ASN	CA-C-N	5.04	127.03	120.28
1	ax	139	ASN	C-N-CA	5.04	127.03	120.28
1	ax	149	SER	N-CA-C	5.04	116.72	109.07
1	aH	67	GLN	N-CA-CB	5.04	117.61	110.16
1	14	133	TRP	CB-CG-CD2	-5.04	119.75	126.80
1	aU	28	GLU	N-CA-C	5.04	116.77	111.28
1	b1	147	PRO	CA-C-N	5.04	129.54	122.09
1	b1	147	PRO	C-N-CA	5.04	129.54	122.09
1	b9	46	GLY	N-CA-C	-5.04	108.66	115.36
1	be	124	ILE	CB-CG1-CD1	5.04	124.37	113.80
1	bf	52	LEU	CA-C-N	5.04	127.44	120.29
1	bf	52	LEU	C-N-CA	5.04	127.44	120.29
1	bf	165	VAL	CA-CB-CG1	5.04	118.96	110.40
1	bl	28	GLU	CA-C-N	5.04	127.44	120.29
1	bl	28	GLU	C-N-CA	5.04	127.44	120.29
1	bq	39	MET	N-CA-C	5.04	116.77	111.28
1	bx	84	HIS	CA-C-N	5.04	124.82	119.28
1	bx	84	HIS	C-N-CA	5.04	124.82	119.28
1	19	18	ARG	O-C-N	-5.04	116.78	122.12
1	bH	5	ASN	O-C-N	-5.04	117.22	123.36
1	bH	37	ILE	N-CA-CB	5.04	113.89	110.52
1	bK	20	LEU	O-C-N	-5.04	116.78	122.12
1	c0	193	ASN	N-CA-C	5.04	119.29	113.20
1	c6	36	VAL	CA-C-N	5.04	125.26	120.43
1	c6	36	VAL	C-N-CA	5.04	125.26	120.43
1	cm	65	ALA	CA-C-N	5.04	127.03	120.28
1	cm	65	ALA	C-N-CA	5.04	127.03	120.28
1	1e	200	THR	CA-CB-OG1	5.04	117.15	109.60
1	cC	143	ARG	N-CA-C	5.04	116.46	110.97
1	cE	123	PRO	CA-C-N	-5.04	115.40	123.46
1	cE	123	PRO	C-N-CA	-5.04	115.40	123.46
1	cH	93	PRO	N-CA-C	5.04	119.22	111.21
1	cI	15	ILE	CA-C-O	5.04	126.90	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cI	19	THR	N-CA-CB	5.04	117.52	110.12
1	cK	112	GLN	O-C-N	-5.04	116.78	122.12
1	cL	190	LEU	CA-C-N	5.04	127.91	120.91
1	cL	190	LEU	C-N-CA	5.04	127.91	120.91
1	d0	87	HIS	CA-C-N	5.04	128.35	120.75
1	d0	87	HIS	C-N-CA	5.04	128.35	120.75
1	d2	126	VAL	N-CA-C	5.04	117.38	111.09
1	d9	2	ILE	CB-CA-C	-5.04	104.19	111.34
1	d9	41	SER	O-C-N	-5.04	116.88	122.07
1	1j	82	ARG	CG-CD-NE	-5.04	100.92	112.00
1	df	134	ILE	CA-CB-CG1	5.04	118.96	110.40
1	dr	179	GLN	O-C-N	-5.04	116.88	122.07
1	dE	69	LEU	O-C-N	-5.04	116.88	122.07
1	dP	162	ARG	NH1-CZ-NH2	-5.04	112.75	119.30
1	e4	146	SER	N-CA-C	-5.04	100.31	108.82
1	ed	141	ILE	O-C-N	-5.04	116.99	121.87
1	ed	141	ILE	CA-CB-CG1	5.04	118.96	110.40
1	ee	218	CYS	O-C-N	-5.04	115.70	122.00
1	ee	228	ALA	O-C-N	-5.04	115.89	122.39
1	ek	76	GLU	O-C-N	-5.04	116.88	122.07
1	em	221	VAL	CA-CB-CG2	5.04	118.96	110.40
1	ep	177	ALA	O-C-N	-5.04	116.92	122.86
1	er	93	PRO	CA-C-O	5.04	125.64	118.99
1	er	122	PRO	N-CD-CG	5.04	109.84	103.80
1	ex	23	TRP	N-CA-C	5.04	116.46	111.07
1	eH	56	LEU	CB-CA-C	-5.04	102.97	110.88
1	eM	228	ALA	N-CA-C	5.04	117.42	111.33
1	eN	159	GLU	N-CA-C	5.04	118.56	109.44
1	f1	210	THR	OG1-CB-CG2	-5.04	99.23	109.30
1	f5	26	VAL	N-CA-C	5.04	115.25	110.42
1	fd	62	HIS	CB-CG-CD2	-5.04	124.66	131.20
1	fj	215	MET	CG-SD-CE	-5.04	89.82	100.90
1	fl	192	GLN	N-CA-CB	5.04	118.09	110.28
1	fp	12	HIS	CG-CD2-NE2	5.04	112.23	107.20
1	1x	48	THR	CA-C-O	-5.04	114.02	121.27
1	fv	67	GLN	CA-C-O	-5.04	115.53	120.82
1	fw	51	ASP	CB-CA-C	-5.04	102.43	110.79
1	fy	50	GLN	CA-C-O	5.04	126.07	120.63
1	fB	23	TRP	N-CA-C	5.04	116.46	111.07
1	fV	103	ASP	CA-CB-CG	-5.04	107.56	112.60
1	fY	50	GLN	O-C-N	-5.04	116.41	122.15
1	g5	42	ALA	N-CA-C	5.04	116.77	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g5	121	ASN	O-C-N	-5.04	115.54	121.23
1	c	112	GLN	OE1-CD-NE2	-5.04	117.56	122.60
1	j	62	HIS	CG-CD2-NE2	5.04	112.24	107.20
1	s	99	PRO	N-CA-CB	5.04	106.60	103.23
1	t	40	PHE	O-C-N	-5.04	116.88	122.07
1	B	195	ASN	CA-C-N	5.04	125.06	119.32
1	B	195	ASN	C-N-CA	5.04	125.06	119.32
1	K	209	ALA	O-C-N	-5.04	116.70	122.95
1	N	197	ASP	CA-C-N	5.04	126.99	120.44
1	N	197	ASP	C-N-CA	5.04	126.99	120.44
1	R	30	LYS	CA-CB-CG	5.04	124.17	114.10
1	gg	66	MET	N-CA-C	-5.03	105.79	111.28
1	1C	17	PRO	O-C-N	-5.03	115.38	122.38
1	gk	16	SER	CA-C-O	-5.03	115.45	120.64
1	gn	64	ALA	CA-C-N	5.03	126.98	120.44
1	gn	64	ALA	C-N-CA	5.03	126.98	120.44
1	gp	84	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	gs	170	LYS	N-CA-C	5.03	117.16	111.02
1	1E	33	SER	CA-C-N	5.03	124.64	119.56
1	1E	33	SER	C-N-CA	5.03	124.64	119.56
1	gD	179	GLN	CA-CB-CG	5.03	124.17	114.10
1	1F	12	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	gM	153	ILE	O-C-N	5.03	128.28	122.64
1	h4	121	ASN	CB-CA-C	5.03	116.88	110.13
1	1H	7	GLN	CA-CB-CG	5.03	124.17	114.10
1	h7	26	VAL	CA-C-O	-5.03	115.46	121.05
1	1J	168	PHE	CA-CB-CG	5.03	118.83	113.80
1	hq	201	ILE	N-CA-C	5.03	115.25	110.42
1	ht	7	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	hC	212	GLU	CA-C-O	5.03	126.11	120.82
1	ij	131	LYS	O-C-N	-5.03	116.78	122.12
1	il	170	LYS	O-C-N	-5.03	116.78	122.12
1	im	15	ILE	N-CA-C	5.03	119.81	109.34
1	it	65	ALA	N-CA-CB	-5.03	102.48	110.28
1	it	109	SER	CA-C-N	5.03	130.13	120.97
1	it	109	SER	C-N-CA	5.03	130.13	120.97
1	ix	94	GLY	CA-C-N	5.03	128.35	120.75
1	ix	94	GLY	C-N-CA	5.03	128.35	120.75
1	1Q	48	THR	CA-C-O	-5.03	114.02	121.27
1	iz	48	THR	O-C-N	-5.03	116.26	121.60
1	iO	55	MET	N-CA-C	5.03	116.85	111.36
1	iY	132	ARG	CG-CD-NE	-5.03	100.92	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j3	176	GLN	OE1-CD-NE2	5.03	127.63	122.60
1	j5	65	ALA	CA-C-N	5.03	126.98	120.44
1	j5	65	ALA	C-N-CA	5.03	126.98	120.44
1	j7	75	GLU	N-CA-CB	5.03	117.52	110.12
1	1U	204	ALA	O-C-N	-5.03	116.78	122.12
1	je	17	PRO	N-CA-CB	-5.03	97.95	103.39
1	1V	85	PRO	N-CA-C	5.03	118.99	111.14
1	jn	90	PRO	N-CA-C	5.03	122.84	112.47
1	ju	12	HIS	N-CA-C	5.03	116.89	108.23
1	jx	37	ILE	O-C-N	-5.03	115.36	121.10
1	jy	1	PRO	CA-C-N	5.03	128.61	121.66
1	jy	1	PRO	C-N-CA	5.03	128.61	121.66
1	jD	119	THR	CA-C-N	5.03	131.15	121.54
1	jD	119	THR	C-N-CA	5.03	131.15	121.54
1	jD	199	LYS	O-C-N	-5.03	116.41	122.15
1	jD	210	THR	CA-C-O	5.03	127.22	121.28
1	jE	155	GLN	CA-C-O	5.03	126.43	120.69
1	jQ	141	ILE	N-CA-C	5.03	115.25	110.42
1	jT	203	LYS	CA-C-N	5.03	127.02	120.28
1	jT	203	LYS	C-N-CA	5.03	127.02	120.28
1	jU	229	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	jV	43	LEU	O-C-N	-5.03	115.21	122.36
1	1Z	215	MET	CG-SD-CE	-5.03	89.83	100.90
1	k3	140	LYS	CA-C-N	5.03	127.00	120.56
1	k3	140	LYS	C-N-CA	5.03	127.00	120.56
1	k9	31	ALA	CB-CA-C	5.03	120.44	110.42
1	kb	100	ARG	O-C-N	-5.03	116.51	122.65
1	kb	133	TRP	N-CA-C	-5.03	105.70	111.14
1	kf	126	VAL	O-C-N	-5.03	116.65	121.83
1	kg	19	THR	O-C-N	-5.03	116.78	122.12
1	kw	100	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	kz	107	THR	N-CA-CB	5.03	117.26	109.91
1	kD	229	ARG	CG-CD-NE	-5.03	100.93	112.00
1	kL	143	ARG	CD-NE-CZ	5.03	131.45	124.40
1	kP	123	PRO	CA-C-O	-5.03	115.72	121.56
1	kW	73	ILE	CA-C-N	5.03	127.53	120.28
1	kW	73	ILE	C-N-CA	5.03	127.53	120.28
1	l4	216	THR	CA-C-O	5.03	125.55	119.31
1	l5	113	GLU	CB-CA-C	-5.03	102.44	110.79
1	26	99	PRO	N-CA-CB	5.03	107.54	103.36
1	lc	91	ILE	CA-C-N	5.03	127.50	120.65
1	lc	91	ILE	C-N-CA	5.03	127.50	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lc	150	ILE	N-CA-C	5.03	115.75	110.62
1	le	128	GLU	N-CA-C	5.03	116.77	111.28
1	lh	117	TRP	N-CA-CB	5.03	117.31	110.01
1	27	55	MET	N-CA-C	5.03	116.77	111.28
1	lC	154	ARG	N-CA-C	5.03	117.53	110.23
1	lE	5	ASN	CA-C-N	5.03	128.00	120.95
1	lE	5	ASN	C-N-CA	5.03	128.00	120.95
1	2d	221	VAL	N-CA-C	-5.03	106.55	111.88
1	2l	88	ALA	N-CA-C	5.03	117.27	108.76
1	2r	51	ASP	CB-CA-C	-5.03	102.44	110.79
1	2s	142	VAL	CA-C-N	5.03	127.03	120.28
1	2s	142	VAL	C-N-CA	5.03	127.03	120.28
1	2s	208	ALA	O-C-N	-5.03	115.70	122.19
1	2v	125	PRO	CA-C-N	5.03	127.63	120.53
1	2v	125	PRO	C-N-CA	5.03	127.63	120.53
1	2E	132	ARG	CA-CB-CG	5.03	124.17	114.10
1	2G	201	ILE	N-CA-C	5.03	115.80	110.72
1	2L	162	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	2O	115	ILE	O-C-N	-5.03	116.99	121.87
1	2Q	91	ILE	CB-CG1-CD1	5.03	124.37	113.80
1	2U	163	ASP	N-CA-C	5.03	116.85	111.36
1	3g	226	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	3i	185	MET	CA-C-O	-5.03	115.21	120.55
1	3j	80	TRP	CB-CG-CD1	-5.03	119.35	126.90
1	3o	44	SER	CA-C-N	5.03	128.49	121.24
1	3o	44	SER	C-N-CA	5.03	128.49	121.24
1	3p	81	ASP	O-C-N	-5.03	115.51	122.46
1	3u	226	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	3w	167	ARG	CA-C-O	5.03	125.89	120.55
1	3D	7	GLN	OE1-CD-NE2	5.03	127.63	122.60
1	3J	37	ILE	CA-CB-CG1	-5.03	101.84	110.40
1	3S	128	GLU	O-C-N	-5.03	116.08	122.27
1	40	4	GLN	CB-CG-CD	-5.03	104.04	112.60
1	42	199	LYS	N-CA-CB	-5.03	102.72	110.12
1	4a	2	ILE	N-CA-C	5.03	116.07	109.58
1	4a	97	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	4a	171	THR	O-C-N	-5.03	116.41	122.15
1	4d	147	PRO	N-CD-CG	5.03	110.75	103.20
1	4m	159	GLU	CA-CB-CG	5.03	124.17	114.10
1	4m	194	ALA	CA-C-O	-5.03	115.68	121.47
1	4t	186	THR	OG1-CB-CG2	-5.03	99.23	109.30
1	4w	152	ASP	N-CA-CB	-5.03	102.93	110.73

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4E	62	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	4H	7	GLN	CG-CD-NE2	5.03	123.95	116.40
1	4L	176	GLN	CG-CD-OE1	5.03	130.87	120.80
1	4S	84	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	4U	101	GLY	CA-C-N	5.03	127.03	120.28
1	4U	101	GLY	C-N-CA	5.03	127.03	120.28
1	4X	217	ALA	N-CA-CB	-5.03	103.24	110.44
1	4Y	60	GLY	O-C-N	5.03	129.24	122.70
1	50	141	ILE	CB-CA-C	5.03	118.94	112.14
1	5d	4	GLN	O-C-N	-5.03	117.30	123.19
1	5d	25	LYS	N-CA-C	5.03	116.77	111.28
1	5d	92	GLU	O-C-N	-5.03	115.79	121.43
1	5n	34	PRO	N-CA-CB	5.03	109.00	103.26
1	5q	214	MET	O-C-N	5.03	127.53	122.09
1	5s	43	LEU	CB-CA-C	-5.03	100.95	110.01
1	5y	19	THR	N-CA-CB	5.03	117.31	110.01
1	5z	217	ALA	CA-C-O	5.03	127.26	121.47
1	5G	7	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	5J	75	GLU	CB-CG-CD	5.03	121.16	112.60
1	5X	159	GLU	CA-C-N	5.03	125.03	119.90
1	5X	159	GLU	C-N-CA	5.03	125.03	119.90
1	5Y	79	GLU	CA-C-O	5.03	125.79	120.10
1	60	208	ALA	CA-C-O	5.03	125.42	119.48
1	6n	166	ASP	CA-CB-CG	5.03	117.63	112.60
1	6v	63	GLN	N-CA-CB	5.03	118.05	110.30
1	6C	43	LEU	O-C-N	-5.03	115.85	122.39
1	6C	139	ASN	CA-C-N	5.03	127.03	120.28
1	6C	139	ASN	C-N-CA	5.03	127.03	120.28
1	6G	139	ASN	CB-CG-ND2	5.03	123.95	116.40
1	6W	13	GLN	CA-C-N	5.03	131.89	121.32
1	6W	13	GLN	C-N-CA	5.03	131.89	121.32
1	6W	36	VAL	CA-C-O	5.03	125.91	120.47
1	6X	173	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	70	142	VAL	CA-C-O	-5.03	115.71	120.95
1	79	24	VAL	CA-CB-CG2	-5.03	101.84	110.40
1	7d	214	MET	CA-C-N	5.03	127.53	120.28
1	7d	214	MET	C-N-CA	5.03	127.53	120.28
1	7n	19	THR	CA-C-N	5.03	126.98	120.44
1	7n	19	THR	C-N-CA	5.03	126.98	120.44
1	7v	186	THR	N-CA-CB	5.03	117.61	110.16
1	7G	148	THR	CB-CA-C	5.03	118.11	109.80
1	7G	229	ARG	NH1-CZ-NH2	-5.03	112.76	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7Q	3	VAL	CA-CB-CG2	5.03	118.96	110.40
1	7S	80	TRP	N-CA-CB	-5.03	102.72	110.12
1	7T	22	ALA	CB-CA-C	-5.03	102.98	110.88
1	80	167	ARG	CA-C-N	5.03	126.98	120.44
1	80	167	ARG	C-N-CA	5.03	126.98	120.44
1	8k	117	TRP	CE3-CZ3-CH2	-5.03	114.56	121.10
1	8r	150	ILE	CA-CB-CG1	5.03	118.96	110.40
1	8v	155	GLN	N-CA-CB	-5.03	102.39	110.69
1	8z	141	ILE	N-CA-C	-5.03	105.80	110.53
1	8N	143	ARG	CA-C-N	5.03	128.65	120.60
1	8N	143	ARG	C-N-CA	5.03	128.65	120.60
1	8U	66	MET	O-C-N	-5.03	116.78	122.12
1	8Z	69	LEU	O-C-N	-5.03	116.89	122.07
1	9c	74	ASN	CA-C-N	5.03	126.98	120.44
1	9c	74	ASN	C-N-CA	5.03	126.98	120.44
1	9d	31	ALA	N-CA-CB	5.03	119.00	110.49
1	9i	50	GLN	CA-C-O	-5.03	115.53	121.07
1	9p	154	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	9t	208	ALA	O-C-N	-5.03	115.81	122.40
1	9u	97	ARG	CD-NE-CZ	5.03	131.45	124.40
1	9z	163	ASP	N-CA-C	-5.03	105.89	112.23
1	9J	200	THR	N-CA-C	5.03	116.77	111.28
1	9L	123	PRO	O-C-N	-5.03	116.72	123.06
1	9V	70	LYS	CB-CG-CD	5.03	122.88	111.30
1	Z	103	ASP	O-C-N	5.03	127.89	122.15
1	a4	175	GLU	O-C-N	-5.03	116.71	122.95
1	a7	9	GLN	CA-C-O	-5.03	116.06	121.45
1	ae	169	TYR	CA-CB-CG	-5.03	104.84	113.90
1	am	59	VAL	N-CA-C	5.03	115.80	110.72
1	am	183	ASN	CA-CB-CG	-5.03	107.57	112.60
1	ao	226	HIS	N-CA-CB	5.03	117.37	109.97
1	av	152	ASP	CA-C-O	5.03	125.52	119.43
1	ax	218	CYS	O-C-N	5.03	129.11	122.47
1	az	154	ARG	CA-C-O	5.03	127.71	120.51
1	aA	74	ASN	N-CA-C	5.03	118.68	112.54
1	aE	68	MET	CA-C-N	5.03	127.02	120.28
1	aE	68	MET	C-N-CA	5.03	127.02	120.28
1	aF	21	ASN	CA-C-N	5.03	127.33	120.54
1	aF	21	ASN	C-N-CA	5.03	127.33	120.54
1	aI	209	ALA	N-CA-C	5.03	117.60	110.10
1	aO	35	GLU	N-CA-C	5.03	119.05	113.01
1	aP	138	LEU	O-C-N	-5.03	116.78	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aV	183	ASN	N-CA-CB	-5.03	102.71	110.01
1	aX	101	GLY	O-C-N	5.03	127.05	122.17
1	b1	184	TRP	O-C-N	-5.03	116.89	122.07
1	b1	216	THR	CA-CB-OG1	5.03	117.15	109.60
1	b2	76	GLU	N-CA-C	-5.03	105.87	111.36
1	be	27	VAL	CA-C-O	-5.03	115.83	121.17
1	be	208	ALA	N-CA-C	-5.03	106.73	112.92
1	17	17	PRO	N-CA-C	-5.03	107.57	113.86
1	bq	58	THR	N-CA-CB	5.03	118.08	110.28
1	bt	55	MET	O-C-N	-5.03	116.85	122.09
1	bt	82	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	bu	208	ALA	CA-C-N	5.03	128.25	121.05
1	bu	208	ALA	C-N-CA	5.03	128.25	121.05
1	bv	120	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	bD	27	VAL	O-C-N	-5.03	116.99	121.87
1	bG	170	LYS	N-CA-C	5.03	116.77	111.28
1	bI	162	ARG	N-CA-C	5.03	117.15	111.11
1	ce	112	GLN	CA-CB-CG	5.03	124.17	114.10
1	ck	167	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	cn	55	MET	O-C-N	-5.03	116.78	122.12
1	cq	12	HIS	CA-C-N	5.03	130.80	121.94
1	cq	12	HIS	C-N-CA	5.03	130.80	121.94
1	cr	17	PRO	N-CA-C	5.03	121.25	113.75
1	cy	23	TRP	CG-CD2-CE3	-5.03	128.87	133.90
1	cy	160	PRO	CA-C-O	-5.03	115.29	121.03
1	cC	131	LYS	N-CA-C	5.03	117.42	111.33
1	cC	167	ARG	N-CA-C	-5.03	105.79	111.28
1	cC	184	TRP	N-CA-C	5.03	116.77	111.28
1	cC	203	LYS	CA-C-N	5.03	127.44	120.29
1	cC	203	LYS	C-N-CA	5.03	127.44	120.29
1	cH	40	PHE	CA-CB-CG	5.03	118.83	113.80
1	cK	149	SER	N-CA-CB	5.03	119.00	110.49
1	cN	190	LEU	CB-CA-C	5.03	118.78	110.88
1	cX	70	LYS	CA-C-O	5.03	126.11	120.82
1	cX	195	ASN	O-C-N	-5.03	115.79	121.43
1	d0	11	VAL	O-C-N	-5.03	117.74	123.18
1	d3	146	SER	CA-C-N	-5.03	114.80	120.89
1	d3	146	SER	C-N-CA	-5.03	114.80	120.89
1	db	62	HIS	ND1-CG-CD2	5.03	111.13	106.10
1	dc	36	VAL	CA-C-O	5.03	123.74	118.96
1	dc	182	LYS	CA-C-N	5.03	127.03	120.28
1	dc	182	LYS	C-N-CA	5.03	127.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dj	27	VAL	CB-CA-C	5.03	118.94	112.14
1	ds	18	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	1l	12	HIS	N-CA-C	-5.03	101.11	109.46
1	1l	36	VAL	CA-C-N	5.03	125.26	120.43
1	1l	36	VAL	C-N-CA	5.03	125.26	120.43
1	dE	161	PHE	N-CA-C	5.03	116.77	111.28
1	dI	146	SER	N-CA-C	5.03	117.74	110.14
1	dJ	115	ILE	CB-CA-C	-5.03	105.53	111.97
1	dL	228	ALA	N-CA-C	5.03	117.19	110.35
1	dR	192	GLN	CB-CA-C	5.03	118.86	110.81
1	e0	113	GLU	CA-C-N	5.03	126.98	120.44
1	e0	113	GLU	C-N-CA	5.03	126.98	120.44
1	e2	53	ASN	CA-CB-CG	5.03	117.63	112.60
1	e8	219	GLN	OE1-CD-NE2	5.03	127.63	122.60
1	1q	6	LEU	CA-C-N	5.03	131.15	121.54
1	1q	6	LEU	C-N-CA	5.03	131.15	121.54
1	ep	225	GLY	CA-C-O	5.03	124.60	119.01
1	eF	12	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	eL	5	ASN	N-CA-CB	5.03	119.00	110.49
1	eQ	88	ALA	CB-CA-C	-5.03	102.10	110.81
1	eR	99	PRO	N-CA-CB	5.03	107.54	103.36
1	eZ	114	GLN	CA-C-N	5.03	128.55	120.30
1	eZ	114	GLN	C-N-CA	5.03	128.55	120.30
1	f3	142	VAL	CA-C-N	5.03	127.29	120.44
1	f3	142	VAL	C-N-CA	5.03	127.29	120.44
1	fg	141	ILE	CB-CA-C	5.03	120.36	112.16
1	fj	201	ILE	O-C-N	-5.03	116.64	121.83
1	fn	15	ILE	N-CA-CB	5.03	116.87	110.13
1	fq	158	LYS	O-C-N	-5.03	115.93	122.37
1	ft	216	THR	OG1-CB-CG2	-5.03	99.23	109.30
1	fB	139	ASN	OD1-CG-ND2	-5.03	117.57	122.60
1	fJ	134	ILE	N-CA-C	5.03	115.25	110.42
1	g3	115	ILE	N-CA-CB	5.03	116.44	110.55
1	g7	124	ILE	O-C-N	-5.03	117.19	121.57
1	1B	149	SER	O-C-N	-5.03	116.83	122.97
1	f	120	HIS	CA-C-N	5.03	129.31	122.56
1	f	120	HIS	C-N-CA	5.03	129.31	122.56
1	v	36	VAL	O-C-N	-5.03	116.99	121.87
1	M	180	GLU	CA-C-N	5.03	127.57	120.42
1	M	180	GLU	C-N-CA	5.03	127.57	120.42
1	M	189	LEU	CA-C-N	5.03	127.03	120.28
1	M	189	LEU	C-N-CA	5.03	127.03	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	Q	124	ILE	N-CA-C	-5.03	101.99	107.73
1	gg	164	TYR	N-CA-C	5.03	116.77	111.28
1	gl	149	SER	O-C-N	-5.03	117.11	122.85
1	gp	120	HIS	O-C-N	-5.03	116.86	122.75
1	gI	87	HIS	CB-CA-C	5.03	118.07	109.72
1	gN	175	GLU	O-C-N	-5.03	117.32	123.16
1	gS	80	TRP	CA-C-N	5.03	126.98	120.44
1	gS	80	TRP	C-N-CA	5.03	126.98	120.44
1	gU	167	ARG	CD-NE-CZ	5.03	131.44	124.40
1	gW	226	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	h3	77	ALA	N-CA-CB	5.03	117.44	109.94
1	h8	96	MET	CA-C-O	5.03	126.88	121.55
1	hf	224	PRO	CA-C-O	-5.03	115.60	121.34
1	hp	23	TRP	CA-C-O	-5.03	115.54	120.82
1	hz	176	GLN	CA-C-O	5.03	125.53	119.59
1	hH	139	ASN	O-C-N	-5.03	116.79	122.12
1	ie	62	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	if	206	GLY	CA-C-N	5.03	126.04	120.45
1	if	206	GLY	C-N-CA	5.03	126.04	120.45
1	iV	164	TYR	O-C-N	-5.03	116.79	122.12
1	jg	18	ARG	CD-NE-CZ	5.03	131.44	124.40
1	jg	190	LEU	N-CA-CB	5.03	117.44	109.94
1	jl	204	ALA	N-CA-CB	-5.03	102.71	110.01
1	1V	117	TRP	N-CA-C	5.03	116.77	111.28
1	jy	99	PRO	N-CA-CB	-5.03	98.83	103.31
1	jL	87	HIS	CA-C-N	5.03	131.03	122.37
1	jL	87	HIS	C-N-CA	5.03	131.03	122.37
1	kw	50	GLN	CB-CA-C	-5.03	99.79	110.31
1	kD	228	ALA	O-C-N	-5.03	116.83	123.02
1	kU	69	LEU	CA-C-O	-5.03	115.52	120.70
1	kW	7	GLN	N-CA-C	-5.03	106.39	112.88
1	la	196	PRO	CA-C-N	5.03	129.11	120.71
1	la	196	PRO	C-N-CA	5.03	129.11	120.71
1	lG	91	ILE	O-C-N	-5.03	117.75	123.18
1	lM	211	LEU	CA-C-O	5.03	125.88	120.55
1	2D	144	MET	N-CA-C	5.03	118.68	112.54
1	2G	82	ARG	CA-C-O	5.03	125.75	120.42
1	2I	143	ARG	CA-C-N	5.03	127.44	120.29
1	2I	143	ARG	C-N-CA	5.03	127.44	120.29
1	2S	192	GLN	CG-CD-OE1	5.03	130.86	120.80
1	3k	169	TYR	N-CA-C	-5.03	107.19	113.38
1	3z	93	PRO	O-C-N	-5.03	117.06	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	41	85	PRO	CB-CA-C	5.03	119.86	111.56
1	47	185	MET	N-CA-CB	5.03	117.44	109.94
1	4e	132	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	4k	133	TRP	CA-C-N	5.03	127.35	120.46
1	4k	133	TRP	C-N-CA	5.03	127.35	120.46
1	4r	177	ALA	N-CA-CB	-5.03	104.26	111.91
1	4z	128	GLU	N-CA-CB	5.03	117.37	110.07
1	4O	189	LEU	CA-C-N	5.03	127.02	120.28
1	4O	189	LEU	C-N-CA	5.03	127.02	120.28
1	4P	28	GLU	N-CA-C	5.03	116.45	111.07
1	50	16	SER	CB-CA-C	-5.03	104.29	110.08
1	50	154	ARG	CA-C-N	5.03	129.49	121.99
1	50	154	ARG	C-N-CA	5.03	129.49	121.99
1	53	184	TRP	CB-CG-CD2	5.03	133.84	126.80
1	55	92	GLU	CA-C-N	5.03	125.18	119.90
1	55	92	GLU	C-N-CA	5.03	125.18	119.90
1	5i	35	GLU	O-C-N	-5.03	116.33	122.22
1	5n	184	TRP	NE1-CE2-CD2	5.03	113.94	107.40
1	5I	98	GLU	CA-C-N	5.03	124.96	119.78
1	5I	98	GLU	C-N-CA	5.03	124.96	119.78
1	5K	176	GLN	CA-C-O	5.03	124.58	119.05
1	62	160	PRO	CB-CA-C	5.03	119.86	111.56
1	6h	167	ARG	CG-CD-NE	-5.03	100.93	112.00
1	6j	225	GLY	O-C-N	-5.03	116.16	122.70
1	6k	3	VAL	CA-CB-CG2	-5.03	101.84	110.40
1	6r	226	HIS	CA-C-O	5.03	125.17	119.18
1	6t	37	ILE	N-CA-CB	5.03	114.38	110.45
1	6G	134	ILE	O-C-N	-5.03	116.65	121.83
1	6T	132	ARG	O-C-N	-5.03	116.79	122.12
1	7g	43	LEU	CA-C-N	5.03	131.00	122.65
1	7g	43	LEU	C-N-CA	5.03	131.00	122.65
1	7u	147	PRO	N-CA-CB	5.03	108.53	103.25
1	8g	128	GLU	N-CA-CB	5.03	117.52	110.12
1	8A	172	LEU	CA-C-N	5.03	127.96	120.31
1	8A	172	LEU	C-N-CA	5.03	127.96	120.31
1	8F	195	ASN	CB-CA-C	5.03	118.56	109.45
1	8J	50	GLN	N-CA-C	5.03	116.76	111.28
1	98	154	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	9c	69	LEU	N-CA-C	5.03	116.45	111.07
1	9k	114	GLN	N-CA-CB	5.03	117.44	109.94
1	9q	178	SER	CA-C-N	5.03	127.53	120.28
1	9q	178	SER	C-N-CA	5.03	127.53	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9T	74	ASN	N-CA-C	5.03	116.58	111.14
1	a5	184	TRP	O-C-N	5.03	127.53	122.09
1	an	61	GLY	CA-C-N	5.03	129.33	122.34
1	an	61	GLY	C-N-CA	5.03	129.33	122.34
1	aD	124	ILE	CB-CA-C	5.03	116.09	110.71
1	aW	129	ILE	CB-CA-C	-5.03	105.28	112.22
1	ba	90	PRO	N-CA-C	5.03	119.11	111.11
1	bf	212	GLU	CA-C-O	-5.03	115.19	120.63
1	bi	164	TYR	CA-C-N	5.03	127.57	120.42
1	bi	164	TYR	C-N-CA	5.03	127.57	120.42
1	bi	171	THR	N-CA-C	-5.03	105.88	111.36
1	bk	90	PRO	CA-C-O	-5.03	115.72	121.56
1	bo	14	ALA	O-C-N	-5.03	116.92	122.86
1	c2	27	VAL	CA-C-O	-5.03	115.03	120.47
1	cr	103	ASP	N-CA-C	5.03	116.77	111.28
1	cz	174	ALA	CA-C-O	5.03	126.10	120.82
1	cC	177	ALA	N-CA-C	5.03	121.52	110.80
1	cI	226	HIS	CA-CB-CG	-5.03	108.77	113.80
1	cR	34	PRO	N-CA-C	-5.03	109.45	114.68
1	cU	119	THR	O-C-N	-5.03	116.30	122.34
1	d0	203	LYS	CA-C-N	5.03	127.33	120.54
1	d0	203	LYS	C-N-CA	5.03	127.33	120.54
1	dQ	48	THR	CA-CB-OG1	5.03	117.15	109.60
1	e7	193	ASN	CB-CG-OD1	-5.03	110.74	120.80
1	1r	164	TYR	CB-CG-CD2	-5.03	113.25	120.80
1	eK	178	SER	N-CA-C	5.03	117.33	110.24
1	eO	2	ILE	CA-C-N	5.03	129.27	122.93
1	eO	2	ILE	C-N-CA	5.03	129.27	122.93
1	ff	139	ASN	CA-C-O	5.03	126.28	120.90
1	ff	144	MET	CA-CB-CG	5.03	124.16	114.10
1	fz	186	THR	O-C-N	-5.03	116.08	122.27
1	fJ	168	PHE	N-CA-C	5.03	116.58	111.14
1	g7	210	THR	O-C-N	-5.03	117.52	123.41
1	0	130	TYR	CB-CA-C	5.03	118.78	110.88
1	h	119	THR	CA-CB-OG1	5.03	117.15	109.60
1	u	70	LYS	N-CA-C	5.03	116.45	111.07
1	B	149	SER	O-C-N	-5.03	117.13	123.27
1	M	54	THR	CA-C-N	5.03	127.02	120.28
1	M	54	THR	C-N-CA	5.03	127.02	120.28
1	W	77	ALA	O-C-N	-5.03	116.89	122.07
1	1C	143	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	gl	1	PRO	CB-CA-C	5.03	119.66	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gl	129	ILE	N-CA-C	-5.03	105.64	110.72
1	gm	119	THR	CA-CB-OG1	5.03	117.15	109.60
1	gs	213	GLU	O-C-N	-5.03	116.89	122.07
1	gF	192	GLN	CG-CD-OE1	5.03	130.86	120.80
1	gM	6	LEU	N-CA-C	-5.03	107.14	113.28
1	gW	87	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	h0	205	LEU	N-CA-C	5.03	117.16	111.02
1	h0	224	PRO	CB-CA-C	5.03	119.86	111.56
1	hb	132	ARG	CB-CA-C	-5.03	102.44	110.79
1	hE	213	GLU	CA-C-O	5.03	125.75	120.42
1	hL	33	SER	CA-C-O	-5.03	115.46	120.64
1	i1	203	LYS	CA-C-N	5.03	127.02	120.28
1	i1	203	LYS	C-N-CA	5.03	127.02	120.28
1	i1	226	HIS	CB-CG-CD2	-5.03	124.66	131.20
1	i2	24	VAL	N-CA-CB	5.03	118.13	110.58
1	ic	165	VAL	CA-C-N	5.03	126.98	120.44
1	ic	165	VAL	C-N-CA	5.03	126.98	120.44
1	in	115	ILE	N-CA-C	5.03	115.25	110.42
1	iq	85	PRO	CA-C-N	5.03	127.24	120.50
1	iq	85	PRO	C-N-CA	5.03	127.24	120.50
1	iv	74	ASN	CA-C-O	-5.03	115.54	120.82
1	iA	23	TRP	N-CA-C	5.03	116.76	111.28
1	iP	95	GLN	N-CA-C	-5.03	101.64	109.24
1	iQ	54	THR	N-CA-C	-5.03	105.88	111.36
1	1U	218	CYS	N-CA-CB	5.03	118.99	110.49
1	je	96	MET	CG-SD-CE	-5.03	89.83	100.90
1	jo	96	MET	N-CA-C	5.03	117.52	110.23
1	jr	119	THR	N-CA-C	-5.03	106.83	113.17
1	jw	200	THR	CA-C-O	-5.03	115.09	120.42
1	jG	188	THR	CA-C-N	5.03	127.27	120.38
1	jG	188	THR	C-N-CA	5.03	127.27	120.38
1	jM	172	LEU	N-CA-C	5.03	116.76	111.28
1	jO	102	SER	CA-C-O	5.03	125.78	120.10
1	jS	1	PRO	CB-CA-C	5.03	119.66	110.10
1	jU	213	GLU	N-CA-C	5.03	116.84	111.36
1	jZ	13	GLN	O-C-N	-5.03	117.22	123.36
1	jZ	24	VAL	N-CA-C	5.03	115.25	110.42
1	k0	138	LEU	N-CA-CB	5.03	117.60	110.16
1	k4	27	VAL	CA-C-O	-5.03	115.72	120.95
1	k7	110	THR	CA-CB-OG1	5.03	117.15	109.60
1	kb	151	LEU	N-CA-C	5.03	118.68	112.54
1	kc	139	ASN	CB-CA-C	-5.03	102.44	110.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kd	31	ALA	O-C-N	-5.03	116.79	122.12
1	kk	84	HIS	CA-C-N	5.03	124.96	119.78
1	kk	84	HIS	C-N-CA	5.03	124.96	119.78
1	km	180	GLU	N-CA-C	5.03	117.15	111.11
1	kq	23	TRP	N-CA-CB	-5.03	102.72	110.16
1	kB	154	ARG	CA-C-N	5.03	127.91	120.82
1	kB	154	ARG	C-N-CA	5.03	127.91	120.82
1	kQ	57	ASN	CA-CB-CG	-5.03	107.57	112.60
1	kR	135	ILE	N-CA-CB	5.03	117.38	110.54
1	kT	167	ARG	O-C-N	-5.03	116.79	122.12
1	kV	203	LYS	CB-CA-C	-5.03	102.98	110.88
1	ll	135	ILE	CA-C-N	5.03	126.98	120.44
1	ll	135	ILE	C-N-CA	5.03	126.98	120.44
1	lv	30	LYS	O-C-N	-5.03	116.21	122.25
1	lv	58	THR	CA-C-N	5.03	128.77	122.43
1	lv	58	THR	C-N-CA	5.03	128.77	122.43
1	ly	219	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	lA	43	LEU	CA-C-O	5.03	125.57	119.38
1	29	61	GLY	CA-C-N	5.03	129.55	122.46
1	29	61	GLY	C-N-CA	5.03	129.55	122.46
1	2g	55	MET	N-CA-C	5.03	116.84	111.36
1	2g	103	ASP	N-CA-C	-5.03	105.46	112.45
1	2g	126	VAL	N-CA-CB	5.03	116.09	110.51
1	2v	182	LYS	N-CA-C	5.03	116.76	111.28
1	2w	164	TYR	CA-C-N	5.03	126.90	120.56
1	2w	164	TYR	C-N-CA	5.03	126.90	120.56
1	2G	126	VAL	CA-C-O	-5.03	115.52	120.85
1	2I	210	THR	CA-CB-OG1	5.03	117.15	109.60
1	2V	201	ILE	O-C-N	-5.03	116.98	121.91
1	2W	183	ASN	N-CA-C	5.03	116.76	111.28
1	30	195	ASN	CA-C-O	-5.03	115.33	120.87
1	35	172	LEU	O-C-N	-5.03	116.89	122.07
1	36	21	ASN	CB-CG-OD1	5.03	130.86	120.80
1	3g	34	PRO	O-C-N	-5.03	115.85	122.64
1	3m	78	ALA	N-CA-C	5.03	116.45	111.07
1	3p	133	TRP	CB-CG-CD2	-5.03	119.76	126.80
1	3r	113	GLU	N-CA-C	5.03	116.84	111.36
1	3r	170	LYS	CA-C-O	5.03	125.75	120.42
1	3u	179	GLN	N-CA-C	5.03	116.76	111.28
1	3x	95	GLN	CA-C-N	5.03	127.99	120.95
1	3x	95	GLN	C-N-CA	5.03	127.99	120.95
1	3y	17	PRO	N-CD-CG	5.03	110.75	103.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3z	86	VAL	CA-C-O	5.03	126.78	121.04
1	3D	91	ILE	CB-CA-C	-5.03	104.20	111.34
1	3J	19	THR	CA-C-O	-5.03	115.54	120.82
1	3N	72	THR	N-CA-CB	5.03	117.36	110.07
1	4d	219	GLN	CA-C-O	-5.03	115.66	121.19
1	4p	70	LYS	CG-CD-CE	5.03	122.87	111.30
1	4u	91	ILE	N-CA-C	5.03	115.89	109.30
1	4w	66	MET	N-CA-CB	5.03	117.61	110.06
1	4B	163	ASP	N-CA-C	5.03	116.84	111.36
1	4B	205	LEU	N-CA-C	-5.03	106.83	113.17
1	4F	55	MET	CA-C-N	5.03	127.02	120.28
1	4F	55	MET	C-N-CA	5.03	127.02	120.28
1	4G	44	SER	O-C-N	-5.03	116.30	122.34
1	4G	202	LEU	CA-C-N	5.03	127.02	120.28
1	4G	202	LEU	C-N-CA	5.03	127.02	120.28
1	4O	226	HIS	CB-CA-C	-5.03	101.64	109.84
1	4Q	74	ASN	N-CA-C	5.03	116.84	111.36
1	56	134	ILE	O-C-N	-5.03	116.91	121.94
1	57	211	LEU	CA-C-N	5.03	128.37	120.82
1	57	211	LEU	C-N-CA	5.03	128.37	120.82
1	5i	199	LYS	CA-C-N	5.03	127.33	120.54
1	5i	199	LYS	C-N-CA	5.03	127.33	120.54
1	5k	195	ASN	CA-C-N	5.03	125.30	119.47
1	5k	195	ASN	C-N-CA	5.03	125.30	119.47
1	5q	201	ILE	CB-CA-C	-5.03	105.28	112.22
1	5F	215	MET	N-CA-C	5.03	118.88	112.34
1	5M	116	GLY	N-CA-C	5.03	119.83	113.24
1	5P	75	GLU	N-CA-C	5.03	116.45	111.07
1	5Q	173	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	5V	100	ARG	O-C-N	-5.03	115.52	122.76
1	66	103	ASP	CA-C-N	5.03	126.90	120.56
1	66	103	ASP	C-N-CA	5.03	126.90	120.56
1	66	199	LYS	N-CA-C	5.03	117.66	111.82
1	67	228	ALA	N-CA-C	5.03	116.78	110.24
1	6b	143	ARG	CA-CB-CG	5.03	124.16	114.10
1	6e	107	THR	CA-C-N	5.03	130.29	122.49
1	6e	107	THR	C-N-CA	5.03	130.29	122.49
1	6k	173	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	6n	172	LEU	CB-CA-C	5.03	118.78	110.88
1	6q	213	GLU	N-CA-CB	-5.03	102.72	110.12
1	6B	164	TYR	O-C-N	-5.03	116.47	122.20
1	6C	97	ARG	CD-NE-CZ	-5.03	117.36	124.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6E	143	ARG	NH1-CZ-NH2	5.03	125.84	119.30
1	6O	209	ALA	N-CA-CB	-5.03	103.45	110.29
1	6S	124	ILE	O-C-N	5.03	125.55	120.92
1	6U	18	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	6W	5	ASN	O-C-N	-5.03	116.89	122.07
1	6Y	168	PHE	CA-CB-CG	5.03	118.83	113.80
1	6Z	212	GLU	N-CA-CB	-5.03	102.72	110.01
1	7p	24	VAL	O-C-N	-5.03	116.99	121.87
1	7x	222	GLY	CA-C-N	5.03	129.77	121.87
1	7x	222	GLY	C-N-CA	5.03	129.77	121.87
1	7C	41	SER	CB-CA-C	-5.03	102.44	110.79
1	7S	63	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	7U	114	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	7X	90	PRO	N-CA-C	5.03	122.83	112.47
1	86	16	SER	CB-CA-C	5.03	115.65	108.76
1	8j	91	ILE	O-C-N	-5.03	117.54	122.67
1	8F	81	ASP	CA-CB-CG	-5.03	107.57	112.60
1	8F	143	ARG	CA-C-N	5.03	127.02	120.28
1	8F	143	ARG	C-N-CA	5.03	127.02	120.28
1	8G	228	ALA	CB-CA-C	5.03	118.07	109.72
1	8N	136	LEU	O-C-N	-5.03	116.89	122.07
1	8Z	114	GLN	CA-C-O	5.03	126.10	120.82
1	97	180	GLU	CA-C-N	5.03	127.00	120.56
1	97	180	GLU	C-N-CA	5.03	127.00	120.56
1	9y	109	SER	O-C-N	-5.03	117.52	123.25
1	9G	149	SER	CA-C-N	5.03	128.62	121.02
1	9G	149	SER	C-N-CA	5.03	128.62	121.02
1	9N	154	ARG	CB-CA-C	-5.03	101.60	109.70
1	9O	74	ASN	CA-C-N	5.03	127.29	120.65
1	9O	74	ASN	C-N-CA	5.03	127.29	120.65
1	9R	65	ALA	CA-C-N	5.03	127.02	120.28
1	9R	65	ALA	C-N-CA	5.03	127.02	120.28
1	a6	22	ALA	O-C-N	-5.03	116.89	122.07
1	a6	86	VAL	N-CA-C	5.03	119.81	109.34
1	10	139	ASN	OD1-CG-ND2	-5.03	117.57	122.60
1	aa	213	GLU	CA-C-N	5.03	127.02	120.28
1	aa	213	GLU	C-N-CA	5.03	127.02	120.28
1	ab	128	GLU	CA-C-N	5.03	127.35	120.46
1	ab	128	GLU	C-N-CA	5.03	127.35	120.46
1	ag	199	LYS	O-C-N	-5.03	116.79	122.12
1	an	23	TRP	CG-CD2-CE3	-5.03	128.87	133.90
1	an	53	ASN	O-C-N	-5.03	116.86	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	12	87	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	au	157	PRO	N-CA-CB	5.03	108.34	103.51
1	ay	59	VAL	N-CA-C	5.03	115.25	110.42
1	az	63	GLN	N-CA-C	5.03	116.45	111.07
1	aC	77	ALA	N-CA-C	5.03	117.66	111.82
1	13	78	ALA	CA-C-N	5.03	127.02	120.28
1	13	78	ALA	C-N-CA	5.03	127.02	120.28
1	aF	123	PRO	N-CA-C	5.03	118.26	111.22
1	aF	130	TYR	CB-CA-C	5.03	119.14	110.79
1	aL	194	ALA	CA-C-O	5.03	126.88	121.55
1	aO	76	GLU	N-CA-C	5.03	117.50	111.71
1	aX	167	ARG	CA-C-N	5.03	127.02	120.28
1	aX	167	ARG	C-N-CA	5.03	127.02	120.28
1	aY	81	ASP	O-C-N	-5.03	116.89	122.07
1	b2	149	SER	O-C-N	-5.03	117.22	123.36
1	b7	175	GLU	N-CA-CB	5.03	117.43	109.83
1	b8	87	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	18	182	LYS	CA-C-N	5.03	126.98	120.44
1	18	182	LYS	C-N-CA	5.03	126.98	120.44
1	bD	45	GLU	O-C-N	-5.03	116.62	122.96
1	bK	26	VAL	CA-C-N	5.03	127.35	120.46
1	bK	26	VAL	C-N-CA	5.03	127.35	120.46
1	bK	139	ASN	CA-C-N	5.03	127.02	120.28
1	bK	139	ASN	C-N-CA	5.03	127.02	120.28
1	bO	56	LEU	CA-C-N	-5.03	114.24	122.54
1	bO	56	LEU	C-N-CA	-5.03	114.24	122.54
1	bY	83	LEU	CA-C-O	5.03	125.88	120.55
1	bZ	171	THR	CA-C-O	5.03	125.82	120.24
1	cg	66	MET	N-CA-CB	5.03	117.52	110.12
1	cv	161	PHE	CB-CA-C	5.03	119.23	110.68
1	cw	131	LYS	N-CA-C	5.03	117.50	111.71
1	cx	90	PRO	CA-C-N	5.03	128.55	120.30
1	cx	90	PRO	C-N-CA	5.03	128.55	120.30
1	cB	31	ALA	N-CA-C	5.03	116.76	111.28
1	cE	56	LEU	N-CA-CB	5.03	117.52	110.12
1	cI	74	ASN	N-CA-C	5.03	116.76	111.28
1	cJ	215	MET	CA-C-O	5.03	125.78	120.10
1	cW	210	THR	O-C-N	-5.03	116.68	122.87
1	d0	12	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	d1	187	GLU	CA-C-N	5.03	131.52	122.46
1	d1	187	GLU	C-N-CA	5.03	131.52	122.46
1	1i	132	ARG	CA-C-O	5.03	125.88	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	db	180	GLU	CB-CG-CD	5.03	121.15	112.60
1	dn	163	ASP	O-C-N	-5.03	116.89	122.07
1	dq	4	GLN	O-C-N	-5.03	115.90	122.59
1	du	167	ARG	CA-C-N	5.03	127.02	120.28
1	du	167	ARG	C-N-CA	5.03	127.02	120.28
1	dw	104	ILE	CB-CA-C	-5.03	105.53	111.97
1	dF	86	VAL	CA-C-O	5.03	126.97	121.13
1	dG	44	SER	N-CA-CB	5.03	119.24	111.39
1	dT	53	ASN	N-CA-C	5.03	116.76	111.28
1	dT	164	TYR	O-C-N	5.03	127.45	122.12
1	dV	138	LEU	N-CA-CB	5.03	117.52	110.12
1	ek	70	LYS	CB-CA-C	-5.03	102.30	110.85
1	em	219	GLN	CG-CD-OE1	5.03	130.86	120.80
1	es	220	GLY	CA-C-N	5.03	129.43	123.19
1	es	220	GLY	C-N-CA	5.03	129.43	123.19
1	et	219	GLN	CA-C-N	-5.03	116.05	122.19
1	et	219	GLN	C-N-CA	-5.03	116.05	122.19
1	ez	226	HIS	O-C-N	-5.03	116.62	122.96
1	eD	141	ILE	N-CA-CB	5.03	116.44	110.55
1	eL	100	ARG	CA-C-N	5.03	125.52	119.94
1	eL	100	ARG	C-N-CA	5.03	125.52	119.94
1	eO	180	GLU	CA-C-O	5.03	125.75	120.42
1	fk	90	PRO	CB-CA-C	5.03	118.20	110.75
1	fo	164	TYR	CA-C-N	5.03	127.35	120.46
1	fo	164	TYR	C-N-CA	5.03	127.35	120.46
1	fq	39	MET	CG-SD-CE	-5.03	89.83	100.90
1	fq	143	ARG	NE-CZ-NH2	5.03	123.73	119.20
1	fu	67	GLN	CA-C-N	5.03	127.02	120.28
1	fu	67	GLN	C-N-CA	5.03	127.02	120.28
1	fC	12	HIS	CB-CA-C	-5.03	102.92	110.16
1	fM	132	ARG	NH1-CZ-NH2	5.03	125.84	119.30
1	1z	92	GLU	CA-C-N	5.03	124.75	119.82
1	1z	92	GLU	C-N-CA	5.03	124.75	119.82
1	fV	70	LYS	N-CA-C	5.03	116.76	111.28
1	0	55	MET	CA-C-O	-5.03	115.09	120.42
1	f	100	ARG	CA-C-N	5.03	125.66	120.03
1	f	100	ARG	C-N-CA	5.03	125.66	120.03
1	j	198	CYS	N-CA-C	-5.03	105.88	111.36
1	1	10	MET	CG-SD-CE	-5.03	89.83	100.90
1	n	124	ILE	O-C-N	-5.03	116.44	121.12
1	o	190	LEU	CA-C-N	5.03	128.87	120.62
1	o	190	LEU	C-N-CA	5.03	128.87	120.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	s	201	ILE	O-C-N	-5.03	116.76	121.94
1	C	18	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	G	90	PRO	CA-C-N	5.03	131.02	121.97
1	G	90	PRO	C-N-CA	5.03	131.02	121.97
1	K	58	THR	O-C-N	-5.03	116.79	122.12
1	5	181	VAL	N-CA-C	5.03	115.75	110.62
1	g8	226	HIS	O-C-N	-5.03	116.83	123.02
1	g9	172	LEU	CB-CA-C	5.03	119.14	110.79
1	gu	83	LEU	CA-C-O	5.03	125.82	120.24
1	gx	46	GLY	CA-C-O	5.03	124.65	119.27
1	gR	68	MET	N-CA-C	5.03	116.45	111.07
1	gY	99	PRO	CB-CA-C	-5.03	106.08	111.56
1	h0	59	VAL	N-CA-C	5.03	116.05	109.21
1	h0	120	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	h2	149	SER	CB-CA-C	5.03	118.07	109.72
1	hc	214	MET	CB-CA-C	-5.03	102.13	110.68
1	hv	134	ILE	CA-C-N	5.03	127.09	120.60
1	hv	134	ILE	C-N-CA	5.03	127.09	120.60
1	hw	42	ALA	N-CA-C	5.03	116.76	111.28
1	hx	157	PRO	CA-C-N	5.03	127.02	120.28
1	hx	157	PRO	C-N-CA	5.03	127.02	120.28
1	hL	201	ILE	N-CA-CB	-5.03	101.67	110.77
1	hR	61	GLY	O-C-N	-5.03	117.41	122.59
1	hR	216	THR	OG1-CB-CG2	-5.03	99.24	109.30
1	ib	80	TRP	CE3-CZ3-CH2	-5.03	114.56	121.10
1	1O	107	THR	CA-CB-CG2	5.03	119.05	110.50
1	ir	92	GLU	CA-C-N	5.03	125.02	119.89
1	ir	92	GLU	C-N-CA	5.03	125.02	119.89
1	iy	79	GLU	N-CA-CB	5.03	117.51	110.12
1	iH	81	ASP	CA-C-N	5.03	127.52	120.28
1	iH	81	ASP	C-N-CA	5.03	127.52	120.28
1	jh	184	TRP	CA-C-N	5.03	127.02	120.28
1	jh	184	TRP	C-N-CA	5.03	127.02	120.28
1	jC	141	ILE	N-CA-C	5.03	115.75	110.62
1	jF	14	ALA	N-CA-C	5.03	118.16	110.36
1	jM	91	ILE	O-C-N	-5.03	117.01	122.64
1	jP	126	VAL	CA-C-O	5.03	125.90	120.47
1	k3	96	MET	CA-C-N	5.03	128.84	120.94
1	k3	96	MET	C-N-CA	5.03	128.84	120.94
1	k6	69	LEU	CB-CA-C	5.03	118.78	110.88
1	kb	69	LEU	N-CA-C	5.03	117.14	111.11
1	kg	22	ALA	O-C-N	5.03	127.45	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kh	123	PRO	O-C-N	-5.03	116.77	123.01
1	ko	149	SER	N-CA-CB	5.03	118.99	110.49
1	ky	64	ALA	CA-C-N	5.03	127.43	120.29
1	ky	64	ALA	C-N-CA	5.03	127.43	120.29
1	kF	221	VAL	CA-CB-CG2	5.03	118.95	110.40
1	l0	123	PRO	CA-C-N	-5.03	116.19	123.28
1	l0	123	PRO	C-N-CA	-5.03	116.19	123.28
1	l2	167	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	lf	87	HIS	N-CA-C	5.03	117.52	110.23
1	lE	117	TRP	CA-C-N	5.03	127.27	120.38
1	lE	117	TRP	C-N-CA	5.03	127.27	120.38
1	lE	197	ASP	N-CA-C	5.03	116.45	111.07
1	lL	190	LEU	O-C-N	-5.03	116.79	122.12
1	lO	120	HIS	N-CA-C	5.03	121.51	110.80
1	2f	50	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	2o	121	ASN	CA-CB-CG	5.03	117.63	112.60
1	2x	50	GLN	O-C-N	-5.03	116.79	122.12
1	2y	23	TRP	CA-C-N	5.03	128.42	120.47
1	2y	23	TRP	C-N-CA	5.03	128.42	120.47
1	2D	126	VAL	CA-C-O	5.03	126.18	120.85
1	2S	12	HIS	CA-CB-CG	5.03	118.83	113.80
1	2X	97	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	3k	74	ASN	N-CA-CB	5.03	117.30	110.01
1	3q	130	TYR	N-CA-C	5.03	117.65	111.82
1	3r	165	VAL	CA-C-O	5.03	126.18	120.95
1	3u	99	PRO	O-C-N	-5.03	116.31	123.05
1	3z	55	MET	O-C-N	-5.03	116.79	122.12
1	3E	35	GLU	N-CA-C	5.03	121.51	110.80
1	3G	143	ARG	CA-C-O	5.03	125.88	120.70
1	3P	166	ASP	CA-C-N	5.03	127.95	120.31
1	3P	166	ASP	C-N-CA	5.03	127.95	120.31
1	40	68	MET	N-CA-C	5.03	117.14	111.11
1	41	38	PRO	N-CD-CG	5.03	110.74	103.20
1	4a	200	THR	CA-CB-CG2	5.03	119.05	110.50
1	4v	221	VAL	N-CA-C	5.03	116.49	109.80
1	4L	10	MET	N-CA-C	5.03	117.52	110.23
1	51	124	ILE	CA-C-O	-5.03	117.46	120.88
1	51	212	GLU	N-CA-C	5.03	119.67	111.37
1	58	169	TYR	N-CA-C	-5.03	105.99	111.82
1	5p	8	GLY	CA-C-N	5.03	129.11	122.42
1	5p	8	GLY	C-N-CA	5.03	129.11	122.42
1	5x	213	GLU	O-C-N	-5.03	116.42	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5D	154	ARG	N-CA-C	5.03	117.19	110.35
1	64	127	GLY	CA-C-N	5.03	127.95	120.31
1	64	127	GLY	C-N-CA	5.03	127.95	120.31
1	66	83	LEU	N-CA-CB	5.03	117.36	110.07
1	6g	4	GLN	CA-C-O	5.03	125.90	120.32
1	6g	183	ASN	CA-CB-CG	-5.03	107.57	112.60
1	6y	125	PRO	CB-CA-C	-5.03	105.78	112.97
1	6Y	183	ASN	OD1-CG-ND2	-5.03	117.57	122.60
1	7k	55	MET	N-CA-C	5.03	116.45	111.07
1	7v	71	GLU	CB-CG-CD	5.03	121.15	112.60
1	7O	110	THR	N-CA-C	5.03	117.02	110.43
1	7P	45	GLU	CA-C-O	5.03	126.06	120.63
1	8y	229	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	8E	200	THR	O-C-N	-5.03	116.79	122.12
1	8G	174	ALA	O-C-N	-5.03	116.08	122.27
1	8O	229	ARG	NH1-CZ-NH2	-5.03	112.76	119.30
1	8Q	96	MET	CB-CA-C	-5.03	100.17	109.37
1	9s	222	GLY	O-C-N	5.03	128.23	123.05
1	9E	220	GLY	CA-C-N	5.03	129.27	122.93
1	9E	220	GLY	C-N-CA	5.03	129.27	122.93
1	9H	144	MET	CG-SD-CE	-5.03	89.84	100.90
1	9I	79	GLU	CA-C-N	5.03	127.52	120.28
1	9I	79	GLU	C-N-CA	5.03	127.52	120.28
1	9P	97	ARG	CD-NE-CZ	-5.03	117.36	124.40
1	9U	148	THR	CA-CB-OG1	5.03	117.14	109.60
1	a1	3	VAL	N-CA-CB	5.03	121.23	111.93
1	ao	113	GLU	O-C-N	-5.03	115.69	122.23
1	ay	171	THR	O-C-N	-5.03	115.69	122.23
1	aK	36	VAL	N-CA-C	5.03	117.34	111.05
1	aL	23	TRP	CE3-CZ3-CH2	-5.03	114.56	121.10
1	aX	111	LEU	CB-CA-C	-5.03	102.98	110.88
1	aX	173	ARG	O-C-N	-5.03	115.43	122.37
1	15	157	PRO	N-CA-C	-5.03	107.64	114.98
1	be	194	ALA	N-CA-C	5.03	116.82	110.33
1	19	37	ILE	CA-C-N	5.03	124.63	119.05
1	19	37	ILE	C-N-CA	5.03	124.63	119.05
1	bR	20	LEU	N-CA-CB	-5.03	102.73	110.12
1	bV	129	ILE	N-CA-CB	5.03	117.38	110.54
1	bY	16	SER	N-CA-C	5.03	116.03	109.64
1	ce	84	HIS	CA-C-O	-5.03	115.59	119.46
1	cl	147	PRO	CA-C-N	5.03	130.75	121.85
1	cl	147	PRO	C-N-CA	5.03	130.75	121.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cB	206	GLY	O-C-N	5.03	126.80	121.77
1	1g	191	VAL	N-CA-C	5.03	115.25	110.42
1	cO	154	ARG	CG-CD-NE	-5.03	100.94	112.00
1	cU	178	SER	CB-CA-C	-5.03	100.41	110.42
1	dr	226	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	dD	131	LYS	CA-C-O	-5.03	115.20	120.63
1	e9	40	PHE	CA-CB-CG	5.03	118.83	113.80
1	1p	196	PRO	CA-N-CD	-5.03	104.96	112.00
1	ed	180	GLU	CA-C-N	5.03	127.35	120.46
1	ed	180	GLU	C-N-CA	5.03	127.35	120.46
1	en	64	ALA	N-CA-C	5.03	116.45	111.07
1	er	74	ASN	O-C-N	-5.03	116.42	122.15
1	er	108	THR	CA-C-N	5.03	130.97	122.87
1	er	108	THR	C-N-CA	5.03	130.97	122.87
1	ev	32	PHE	CB-CA-C	5.03	118.54	110.29
1	eA	202	LEU	O-C-N	-5.03	116.89	122.07
1	eP	187	GLU	N-CA-CB	5.03	117.96	110.22
1	eX	74	ASN	CA-CB-CG	5.03	117.63	112.60
1	fl	199	LYS	CA-C-O	-5.03	115.09	120.42
1	fC	193	ASN	OD1-CG-ND2	-5.03	117.57	122.60
1	fI	146	SER	CA-C-O	-5.03	113.69	119.32
1	fO	11	VAL	O-C-N	-5.03	118.01	123.14
1	fT	72	THR	CA-C-N	5.03	127.35	120.46
1	fT	72	THR	C-N-CA	5.03	127.35	120.46
1	g2	197	ASP	CA-C-O	5.03	126.06	120.63
1	g5	173	ARG	CA-C-O	-5.03	115.09	120.42
1	h	128	GLU	O-C-N	-5.03	115.52	122.46
1	y	18	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	B	185	MET	CA-C-N	5.03	126.98	120.44
1	B	185	MET	C-N-CA	5.03	126.98	120.44
1	W	162	ARG	NE-CZ-NH2	-5.03	114.67	119.20
1	g9	60	GLY	O-C-N	-5.03	116.17	122.70
1	gc	196	PRO	N-CA-CB	5.03	108.82	103.39
1	gj	11	VAL	N-CA-CB	5.03	117.49	111.31
1	gm	53	ASN	N-CA-C	5.03	117.41	111.33
1	gC	215	MET	N-CA-C	5.03	121.51	110.80
1	gG	83	LEU	N-CA-CB	-5.03	102.49	110.28
1	1F	33	SER	CA-C-O	-5.03	114.82	120.25
1	gM	36	VAL	N-CA-C	5.03	119.49	112.50
1	gT	154	ARG	CD-NE-CZ	5.03	131.44	124.40
1	gX	144	MET	O-C-N	-5.03	116.89	122.07
1	h2	105	ALA	N-CA-C	5.03	119.39	113.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h4	10	MET	N-CA-C	5.03	116.98	109.59
1	h5	164	TYR	CB-CA-C	5.03	118.77	110.88
1	1H	107	THR	OG1-CB-CG2	-5.03	99.25	109.30
1	h6	135	ILE	CA-C-N	5.03	127.02	120.28
1	h6	135	ILE	C-N-CA	5.03	127.02	120.28
1	ha	185	MET	CA-C-N	5.03	127.33	120.54
1	ha	185	MET	C-N-CA	5.03	127.33	120.54
1	ha	213	GLU	O-C-N	-5.03	116.42	122.15
1	1I	25	LYS	O-C-N	-5.03	116.42	122.15
1	hr	126	VAL	O-C-N	-5.03	116.99	121.87
1	hs	226	HIS	CB-CG-CD2	-5.03	124.66	131.20
1	ht	78	ALA	CA-C-N	5.03	127.33	120.54
1	ht	78	ALA	C-N-CA	5.03	127.33	120.54
1	hu	53	ASN	CA-C-O	5.03	126.06	120.63
1	hx	12	HIS	N-CA-C	5.03	117.72	110.28
1	hz	79	GLU	CG-CD-OE1	5.03	129.97	118.40
1	hH	144	MET	N-CA-C	5.03	116.84	111.36
1	hJ	74	ASN	CA-C-N	5.03	127.02	120.28
1	hJ	74	ASN	C-N-CA	5.03	127.02	120.28
1	hJ	222	GLY	CA-C-N	5.03	129.76	121.87
1	hJ	222	GLY	C-N-CA	5.03	129.76	121.87
1	hL	138	LEU	N-CA-CB	5.03	117.51	110.12
1	hQ	195	ASN	N-CA-CB	-5.03	102.77	110.11
1	hR	13	GLN	CA-C-N	5.03	127.99	120.90
1	hR	13	GLN	C-N-CA	5.03	127.99	120.90
1	hR	229	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	hS	223	GLY	CA-C-N	5.03	125.05	119.32
1	hS	223	GLY	C-N-CA	5.03	125.05	119.32
1	i5	208	ALA	O-C-N	-5.03	116.06	122.34
1	i8	162	ARG	CA-C-O	5.03	125.88	120.55
1	ih	53	ASN	CA-C-N	5.03	127.43	120.29
1	ih	53	ASN	C-N-CA	5.03	127.43	120.29
1	ih	208	ALA	O-C-N	-5.03	116.68	122.86
1	in	77	ALA	O-C-N	-5.03	116.79	122.12
1	ip	114	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	ip	140	LYS	CA-C-N	5.03	126.89	120.56
1	ip	140	LYS	C-N-CA	5.03	126.89	120.56
1	iy	101	GLY	O-C-N	-5.03	117.36	122.19
1	iy	161	PHE	CA-C-N	5.03	127.02	120.28
1	iy	161	PHE	C-N-CA	5.03	127.02	120.28
1	iA	103	ASP	O-C-N	5.03	127.88	122.15
1	iK	64	ALA	N-CA-C	5.03	118.67	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iM	130	TYR	N-CA-C	5.03	116.76	111.28
1	j1	140	LYS	CA-C-N	5.03	128.94	120.29
1	j1	140	LYS	C-N-CA	5.03	128.94	120.29
1	1T	226	HIS	N-CA-C	5.03	116.76	111.28
1	jd	67	GLN	CA-C-N	5.03	127.95	120.31
1	jd	67	GLN	C-N-CA	5.03	127.95	120.31
1	jm	75	GLU	N-CA-CB	5.03	117.60	110.16
1	jq	221	VAL	CB-CA-C	-5.03	105.90	110.63
1	jr	133	TRP	CA-C-N	5.03	126.90	120.56
1	jr	133	TRP	C-N-CA	5.03	126.90	120.56
1	jt	70	LYS	CA-CB-CG	5.03	124.15	114.10
1	jt	162	ARG	O-C-N	-5.03	115.91	122.59
1	jy	173	ARG	CA-C-N	5.03	127.95	120.31
1	jy	173	ARG	C-N-CA	5.03	127.95	120.31
1	jK	86	VAL	CA-C-O	5.03	127.16	121.28
1	jM	190	LEU	N-CA-CB	-5.03	102.52	110.06
1	jP	12	HIS	N-CA-CB	5.03	118.44	110.55
1	jV	137	GLY	O-C-N	-5.03	116.17	122.70
1	jX	51	ASP	CA-C-N	5.03	127.33	120.54
1	jX	51	ASP	C-N-CA	5.03	127.33	120.54
1	jX	111	LEU	CA-C-N	5.03	127.43	120.29
1	jX	111	LEU	C-N-CA	5.03	127.43	120.29
1	jZ	68	MET	O-C-N	-5.03	116.79	122.12
1	k1	224	PRO	N-CA-C	5.03	122.83	112.47
1	km	143	ARG	N-CA-C	5.03	116.84	111.36
1	kA	167	ARG	CA-C-N	5.03	126.98	120.44
1	kA	167	ARG	C-N-CA	5.03	126.98	120.44
1	kG	149	SER	N-CA-CB	5.03	118.99	110.49
1	kH	170	LYS	CA-C-O	5.03	125.75	120.42
1	l7	3	VAL	CB-CA-C	5.03	118.32	110.83
1	l8	31	ALA	N-CA-C	5.03	117.65	111.82
1	lc	189	LEU	CA-C-N	5.03	126.97	120.44
1	lc	189	LEU	C-N-CA	5.03	126.97	120.44
1	ld	75	GLU	CA-C-N	5.03	127.52	120.28
1	ld	75	GLU	C-N-CA	5.03	127.52	120.28
1	le	189	LEU	N-CA-C	5.03	117.41	111.33
1	li	176	GLN	CA-C-N	5.03	129.90	120.95
1	li	176	GLN	C-N-CA	5.03	129.90	120.95
1	lj	138	LEU	CA-C-O	5.03	125.88	120.55
1	lk	63	GLN	CA-C-O	-5.03	115.52	120.90
1	ln	81	ASP	CA-C-N	5.03	126.98	120.44
1	ln	81	ASP	C-N-CA	5.03	126.98	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ln	100	ARG	CA-C-N	5.03	125.56	119.98
1	ln	100	ARG	C-N-CA	5.03	125.56	119.98
1	ls	181	VAL	N-CA-C	5.03	115.26	110.53
1	ly	135	ILE	CA-C-N	5.03	127.27	120.38
1	ly	135	ILE	C-N-CA	5.03	127.27	120.38
1	lL	29	GLU	O-C-N	-5.03	115.51	122.30
1	2a	211	LEU	N-CA-C	-5.03	105.80	111.28
1	lP	155	GLN	O-C-N	-5.03	116.75	122.93
1	2l	147	PRO	CA-C-O	-5.03	115.80	121.43
1	2m	229	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	2s	54	THR	CA-C-O	5.03	125.88	120.55
1	2x	93	PRO	CA-C-N	5.03	128.15	121.01
1	2x	93	PRO	C-N-CA	5.03	128.15	121.01
1	2K	130	TYR	CA-C-N	5.03	126.98	120.44
1	2K	130	TYR	C-N-CA	5.03	126.98	120.44
1	2L	152	ASP	CA-CB-CG	5.03	117.63	112.60
1	2M	119	THR	N-CA-C	-5.03	106.83	113.17
1	2M	183	ASN	N-CA-CB	5.03	117.60	110.16
1	2N	186	THR	N-CA-CB	5.03	118.07	110.28
1	2Q	100	ARG	CG-CD-NE	-5.03	100.94	112.00
1	2Q	219	GLN	N-CA-CB	5.03	117.96	109.92
1	2R	95	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	2U	58	THR	N-CA-CB	5.03	118.28	110.44
1	2Y	12	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	2Z	143	ARG	NE-CZ-NH1	-5.03	116.47	121.50
1	31	180	GLU	O-C-N	-5.03	116.42	122.15
1	35	205	LEU	CA-C-N	5.03	129.76	121.87
1	35	205	LEU	C-N-CA	5.03	129.76	121.87
1	36	194	ALA	CA-C-O	5.03	126.88	121.55
1	38	136	LEU	O-C-N	-5.03	116.79	122.12
1	3l	130	TYR	CA-CB-CG	5.03	122.95	113.90
1	3p	20	LEU	CA-C-N	5.03	127.43	120.29
1	3p	20	LEU	C-N-CA	5.03	127.43	120.29
1	3w	140	LYS	O-C-N	-5.03	116.89	122.07
1	3K	139	ASN	CB-CA-C	5.03	119.14	110.79
1	3S	171	THR	CA-C-N	5.03	127.52	120.28
1	3S	171	THR	C-N-CA	5.03	127.52	120.28
1	3T	166	ASP	CA-CB-CG	5.03	117.63	112.60
1	46	153	ILE	N-CA-C	5.03	115.53	108.89
1	47	199	LYS	N-CA-CB	-5.03	102.73	110.12
1	4f	9	GLN	N-CA-CB	5.03	118.98	110.49
1	4m	52	LEU	N-CA-C	5.03	116.45	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4o	105	ALA	N-CA-C	-5.03	106.92	113.16
1	4q	23	TRP	CE2-CD2-CE3	5.03	123.83	118.80
1	4r	82	ARG	NE-CZ-NH2	-5.03	114.68	119.20
1	4K	67	GLN	N-CA-C	5.03	116.45	111.07
1	4N	70	LYS	CA-C-N	5.03	127.28	120.44
1	4N	70	LYS	C-N-CA	5.03	127.28	120.44
1	4P	12	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	4P	149	SER	CB-CA-C	-5.03	98.87	109.38
1	4U	100	ARG	NE-CZ-NH2	-5.03	114.68	119.20
1	54	16	SER	N-CA-C	5.03	116.83	109.84
1	57	168	PHE	CA-C-O	5.03	126.28	121.00
1	5c	144	MET	O-C-N	-5.03	116.08	122.27
1	5c	156	GLY	CA-C-N	5.03	125.10	119.87
1	5c	156	GLY	C-N-CA	5.03	125.10	119.87
1	5t	162	ARG	N-CA-C	5.03	116.76	111.28
1	5A	132	ARG	CG-CD-NE	-5.03	100.94	112.00
1	5B	141	ILE	N-CA-CB	-5.03	101.67	110.77
1	5V	134	ILE	CA-C-N	5.03	127.35	120.46
1	5V	134	ILE	C-N-CA	5.03	127.35	120.46
1	64	46	GLY	CA-C-O	5.03	126.12	119.58
1	6k	33	SER	CB-CA-C	5.03	115.65	108.76
1	6m	160	PRO	CA-C-N	5.03	127.43	120.29
1	6m	160	PRO	C-N-CA	5.03	127.43	120.29
1	6n	160	PRO	CB-CA-C	5.03	117.97	111.64
1	6s	93	PRO	CB-CA-C	5.03	119.85	111.56
1	6w	139	ASN	OD1-CG-ND2	-5.03	117.57	122.60
1	6C	152	ASP	CA-CB-CG	-5.03	107.57	112.60
1	6I	212	GLU	CA-CB-CG	-5.03	104.05	114.10
1	6M	83	LEU	N-CA-CB	-5.03	102.73	110.12
1	6P	39	MET	CG-SD-CE	-5.03	89.84	100.90
1	6P	101	GLY	O-C-N	5.03	127.07	122.19
1	73	14	ALA	CA-C-N	5.03	127.32	120.63
1	73	14	ALA	C-N-CA	5.03	127.32	120.63
1	73	203	LYS	N-CA-CB	5.03	118.99	110.49
1	7c	119	THR	CA-C-O	5.03	125.41	119.48
1	7d	215	MET	N-CA-C	5.03	117.49	111.71
1	7k	198	CYS	CA-C-N	5.03	126.97	120.44
1	7k	198	CYS	C-N-CA	5.03	126.97	120.44
1	7n	82	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	7s	27	VAL	CA-C-N	5.03	127.27	120.38
1	7s	27	VAL	C-N-CA	5.03	127.27	120.38
1	7w	50	GLN	O-C-N	-5.03	116.79	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7z	42	ALA	CA-C-O	-5.03	115.54	120.82
1	7E	145	TYR	CB-CG-CD1	5.03	128.34	120.80
1	7E	203	LYS	CA-C-N	5.03	127.43	120.29
1	7E	203	LYS	C-N-CA	5.03	127.43	120.29
1	7L	190	LEU	CD1-CG-CD2	-5.03	99.74	110.80
1	7N	25	LYS	CA-C-O	-5.03	115.54	120.82
1	7N	123	PRO	O-C-N	-5.03	116.61	122.99
1	7P	157	PRO	CA-C-N	5.03	130.13	122.29
1	7P	157	PRO	C-N-CA	5.03	130.13	122.29
1	7Y	198	CYS	N-CA-C	5.03	116.76	111.28
1	8l	127	GLY	O-C-N	5.03	127.02	122.19
1	8p	136	LEU	N-CA-C	5.03	117.14	111.11
1	8B	96	MET	N-CA-CB	5.03	117.53	109.28
1	8D	164	TYR	O-C-N	-5.03	116.34	122.22
1	8O	21	ASN	N-CA-C	5.03	116.57	111.14
1	8P	133	TRP	CA-C-O	5.03	126.10	120.82
1	8R	203	LYS	O-C-N	-5.03	116.42	122.15
1	8T	18	ARG	NH1-CZ-NH2	-5.03	112.77	119.30
1	8U	179	GLN	O-C-N	-5.03	116.89	122.07
1	94	222	GLY	O-C-N	-5.03	116.16	122.70
1	95	121	ASN	CA-CB-CG	-5.03	107.57	112.60
1	97	195	ASN	N-CA-C	5.03	116.83	109.84
1	98	23	TRP	N-CA-C	5.03	117.15	111.02
1	9c	226	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	9d	53	ASN	CA-C-N	5.03	127.02	120.28
1	9d	53	ASN	C-N-CA	5.03	127.02	120.28
1	9j	96	MET	CA-C-N	5.03	131.14	121.54
1	9j	96	MET	C-N-CA	5.03	131.14	121.54
1	9m	229	ARG	CA-C-O	5.03	127.04	121.56
1	9r	177	ALA	O-C-N	-5.03	117.48	123.11
1	9K	210	THR	N-CA-CB	5.03	118.38	110.23
1	9M	18	ARG	CA-C-N	5.03	127.02	120.28
1	9M	18	ARG	C-N-CA	5.03	127.02	120.28
1	9P	163	ASP	CA-C-N	5.03	127.43	120.29
1	9P	163	ASP	C-N-CA	5.03	127.43	120.29
1	Y	208	ALA	CA-C-N	5.03	131.14	121.54
1	Y	208	ALA	C-N-CA	5.03	131.14	121.54
1	9S	115	ILE	CA-C-N	5.03	125.56	119.98
1	9S	115	ILE	C-N-CA	5.03	125.56	119.98
1	9T	139	ASN	N-CA-C	5.03	116.76	111.28
1	9X	182	LYS	CG-CD-CE	5.03	122.86	111.30
1	9Z	83	LEU	N-CA-CB	-5.03	102.49	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9Z	206	GLY	N-CA-C	5.03	122.60	112.34
1	a8	67	GLN	CA-C-O	5.03	125.82	120.24
1	a8	128	GLU	CA-C-O	5.03	125.75	120.42
1	ah	68	MET	CA-CB-CG	-5.03	104.05	114.10
1	ai	48	THR	N-CA-CB	5.03	117.45	110.11
1	ak	91	ILE	N-CA-CB	5.03	116.87	110.13
1	12	3	VAL	CA-CB-CG2	-5.03	101.85	110.40
1	ay	199	LYS	CA-C-O	5.03	126.06	120.63
1	aA	187	GLU	N-CA-C	5.03	117.41	111.33
1	aB	222	GLY	CA-C-N	5.03	129.76	121.87
1	aB	222	GLY	C-N-CA	5.03	129.76	121.87
1	aC	100	ARG	N-CA-C	-5.03	102.75	110.14
1	aE	90	PRO	N-CA-C	5.03	118.98	111.14
1	aE	155	GLN	CB-CG-CD	-5.03	104.05	112.60
1	aN	111	LEU	N-CA-CB	5.03	117.51	110.12
1	b8	87	HIS	CA-CB-CG	5.03	118.83	113.80
1	bg	122	PRO	N-CA-CB	5.03	108.13	102.60
1	bg	124	ILE	CA-C-O	5.03	122.87	119.20
1	18	212	GLU	CA-C-N	5.03	126.97	120.44
1	18	212	GLU	C-N-CA	5.03	126.97	120.44
1	bv	213	GLU	CA-C-N	5.03	127.02	120.28
1	bv	213	GLU	C-N-CA	5.03	127.02	120.28
1	bC	131	LYS	CA-C-O	5.03	126.10	120.82
1	bG	11	VAL	N-CA-CB	5.03	121.25	110.64
1	bL	211	LEU	CA-C-N	5.03	127.02	120.28
1	bL	211	LEU	C-N-CA	5.03	127.02	120.28
1	bX	220	GLY	CA-C-N	5.03	130.87	122.57
1	bX	220	GLY	C-N-CA	5.03	130.87	122.57
1	bY	227	LYS	CB-CA-C	-5.03	100.14	109.29
1	c0	113	GLU	N-CA-C	5.03	116.45	111.07
1	c7	155	GLN	O-C-N	-5.03	116.84	123.02
1	c8	32	PHE	CB-CG-CD2	-5.03	112.16	120.70
1	ca	155	GLN	N-CA-C	5.03	117.59	110.10
1	cc	81	ASP	CA-C-O	5.03	125.72	119.79
1	ct	192	GLN	N-CA-C	5.03	116.76	111.28
1	cw	164	TYR	CB-CA-C	5.03	119.13	110.79
1	cy	5	ASN	CA-CB-CG	5.03	117.63	112.60
1	cD	54	THR	O-C-N	-5.03	116.89	122.07
1	cF	38	PRO	CA-N-CD	-5.03	104.96	112.00
1	cK	166	ASP	O-C-N	-5.03	116.70	122.08
1	cN	22	ALA	N-CA-C	5.03	116.76	111.28
1	cY	117	TRP	N-CA-C	5.03	117.65	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cZ	219	GLN	N-CA-C	5.03	117.81	109.46
1	d3	211	LEU	O-C-N	-5.03	115.59	122.33
1	d7	41	SER	O-C-N	-5.03	116.42	122.15
1	de	116	GLY	CA-C-O	-5.03	115.57	120.75
1	de	193	ASN	CB-CG-ND2	-5.03	108.86	116.40
1	ds	201	ILE	O-C-N	-5.03	114.93	121.82
1	1l	189	LEU	O-C-N	-5.03	116.09	122.27
1	dA	43	LEU	O-C-N	5.03	127.45	122.12
1	dI	172	LEU	CA-C-N	5.03	127.95	120.31
1	dI	172	LEU	C-N-CA	5.03	127.95	120.31
1	dN	227	LYS	O-C-N	-5.03	116.76	122.89
1	1n	33	SER	N-CA-C	-5.03	101.37	109.82
1	dU	215	MET	N-CA-C	5.03	117.41	111.33
1	dX	17	PRO	N-CA-CB	5.03	108.53	103.25
1	e4	139	ASN	CA-C-O	-5.03	115.22	120.55
1	e4	154	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	e7	226	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	e8	167	ARG	CA-C-O	-5.03	114.66	120.24
1	ej	134	ILE	N-CA-C	5.03	115.80	110.72
1	el	114	GLN	N-CA-CB	5.03	117.25	109.91
1	eD	186	THR	N-CA-C	5.03	116.45	111.07
1	1s	137	GLY	CA-C-N	5.03	127.02	120.28
1	1s	137	GLY	C-N-CA	5.03	127.02	120.28
1	eJ	23	TRP	CB-CG-CD2	5.03	133.84	126.80
1	eM	230	VAL	CA-C-N	5.03	130.75	121.70
1	eM	230	VAL	C-N-CA	5.03	130.75	121.70
1	f7	25	LYS	CA-C-O	5.03	125.88	120.55
1	fm	55	MET	CB-CA-C	-5.03	102.77	110.81
1	fu	134	ILE	O-C-N	-5.03	116.98	121.91
1	fy	30	LYS	CG-CD-CE	5.03	122.86	111.30
1	fG	142	VAL	N-CA-CB	5.03	116.75	110.47
1	fI	87	HIS	ND1-CE1-NE2	5.03	113.43	108.40
1	fM	182	LYS	N-CA-CB	5.03	117.60	110.16
1	fT	216	THR	N-CA-CB	5.03	118.35	110.46
1	fZ	131	LYS	N-CA-C	5.03	116.76	111.28
1	g0	183	ASN	CA-C-N	5.03	127.02	120.28
1	g0	183	ASN	C-N-CA	5.03	127.02	120.28
1	g2	77	ALA	O-C-N	-5.03	116.42	122.15
1	g6	19	THR	N-CA-C	5.03	116.76	111.28
1	g	197	ASP	N-CA-C	5.03	116.76	111.28
1	j	152	ASP	N-CA-C	-5.03	106.83	113.17
1	s	81	ASP	N-CA-C	5.03	116.45	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	t	167	ARG	CD-NE-CZ	5.03	131.44	124.40
1	v	74	ASN	CB-CA-C	-5.03	102.44	110.79
1	z	91	ILE	CA-C-N	5.03	129.35	122.06
1	z	91	ILE	C-N-CA	5.03	129.35	122.06
1	A	15	ILE	N-CA-C	5.03	116.87	109.63
1	C	195	ASN	CA-C-N	5.03	126.12	119.84
1	C	195	ASN	C-N-CA	5.03	126.12	119.84
1	D	4	GLN	CA-C-O	5.03	125.84	120.46
1	H	148	THR	CA-CB-CG2	-5.03	101.95	110.50
1	H	223	GLY	O-C-N	-5.03	116.74	121.77
1	4	138	LEU	N-CA-C	5.03	116.45	111.07
1	O	117	TRP	N-CA-C	5.03	116.76	111.28
1	P	17	PRO	CA-C-N	5.03	127.02	120.28
1	P	17	PRO	C-N-CA	5.03	127.02	120.28
1	P	204	ALA	CB-CA-C	-5.03	101.33	110.63
1	gc	12	HIS	CA-C-N	5.03	129.73	121.39
1	gc	12	HIS	C-N-CA	5.03	129.73	121.39
1	gk	35	GLU	CA-C-O	5.03	125.23	119.35
1	gm	120	HIS	CB-CG-CD2	-5.03	124.67	131.20
1	1D	213	GLU	CA-C-O	-5.03	114.66	120.24
1	gB	42	ALA	N-CA-CB	-5.03	102.72	110.16
1	gG	114	GLN	CA-C-N	5.03	127.35	120.46
1	gG	114	GLN	C-N-CA	5.03	127.35	120.46
1	gH	147	PRO	N-CD-CG	5.03	110.74	103.20
1	gT	42	ALA	N-CA-CB	-5.03	102.73	110.12
1	h0	19	THR	OG1-CB-CG2	-5.03	99.25	109.30
1	h4	23	TRP	N-CA-C	5.03	117.14	111.11
1	hf	153	ILE	N-CA-C	5.03	119.53	113.00
1	hu	66	MET	CA-C-O	-5.03	114.19	119.97
1	hw	112	GLN	CA-C-N	5.03	126.97	120.44
1	hw	112	GLN	C-N-CA	5.03	126.97	120.44
1	hE	152	ASP	O-C-N	-5.03	116.08	122.26
1	hU	25	LYS	N-CA-CB	5.03	117.51	110.12
1	hY	103	ASP	CA-C-N	5.03	126.99	120.56
1	hY	103	ASP	C-N-CA	5.03	126.99	120.56
1	i0	54	THR	O-C-N	-5.03	116.79	122.12
1	i1	184	TRP	O-C-N	-5.03	116.42	122.15
1	i2	25	LYS	N-CA-CB	5.03	117.30	110.01
1	i2	117	TRP	CD2-CE2-CZ2	5.03	127.43	122.40
1	i5	84	HIS	CA-CB-CG	-5.03	108.77	113.80
1	ib	91	ILE	CA-CB-CG1	5.03	118.94	110.40
1	if	226	HIS	CG-CD2-NE2	5.03	112.23	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ii	46	GLY	N-CA-C	-5.03	108.13	115.72
1	ik	44	SER	CA-C-N	5.03	127.91	120.82
1	ik	44	SER	C-N-CA	5.03	127.91	120.82
1	il	162	ARG	NH1-CZ-NH2	-5.03	112.77	119.30
1	ip	141	ILE	O-C-N	-5.03	116.98	121.91
1	ip	212	GLU	N-CA-C	-5.03	105.80	111.28
1	iq	162	ARG	O-C-N	5.03	127.45	122.12
1	ix	140	LYS	CA-C-N	5.03	126.99	120.56
1	ix	140	LYS	C-N-CA	5.03	126.99	120.56
1	iB	4	GLN	CB-CG-CD	5.03	121.14	112.60
1	iD	94	GLY	O-C-N	-5.03	115.80	122.28
1	iG	20	LEU	N-CA-C	5.03	116.45	111.07
1	iG	222	GLY	O-C-N	-5.03	118.14	122.91
1	iO	65	ALA	N-CA-CB	-5.03	102.72	110.01
1	iP	113	GLU	N-CA-C	5.03	116.84	111.36
1	1T	112	GLN	N-CA-C	5.03	117.14	111.11
1	j8	195	ASN	OD1-CG-ND2	-5.03	117.58	122.60
1	jk	68	MET	CA-C-O	5.03	125.78	120.10
1	jp	203	LYS	N-CA-C	5.03	116.76	111.28
1	jq	207	PRO	CA-C-N	5.03	130.94	123.05
1	jq	207	PRO	C-N-CA	5.03	130.94	123.05
1	jv	169	TYR	N-CA-C	5.03	116.84	111.36
1	jE	90	PRO	CA-C-N	5.03	127.31	120.63
1	jE	90	PRO	C-N-CA	5.03	127.31	120.63
1	jI	36	VAL	CA-C-N	5.03	124.35	120.33
1	jI	36	VAL	C-N-CA	5.03	124.35	120.33
1	jZ	27	VAL	CA-C-N	5.03	127.52	120.28
1	jZ	27	VAL	C-N-CA	5.03	127.52	120.28
1	k7	150	ILE	CA-C-N	5.03	129.11	120.72
1	k7	150	ILE	C-N-CA	5.03	129.11	120.72
1	k9	197	ASP	CA-CB-CG	-5.03	107.58	112.60
1	kh	58	THR	CA-C-O	5.03	125.48	119.60
1	ko	87	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	kp	129	ILE	CA-C-N	5.03	126.97	120.44
1	kp	129	ILE	C-N-CA	5.03	126.97	120.44
1	ks	57	ASN	OD1-CG-ND2	5.03	127.63	122.60
1	22	183	ASN	OD1-CG-ND2	-5.03	117.58	122.60
1	kL	184	TRP	O-C-N	-5.03	116.79	122.12
1	kX	154	ARG	CA-C-N	5.03	128.69	121.50
1	kX	154	ARG	C-N-CA	5.03	128.69	121.50
1	l3	78	ALA	N-CA-C	5.03	117.14	111.11
1	l3	174	ALA	CA-C-N	5.03	127.95	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	l3	174	ALA	C-N-CA	5.03	127.95	120.31
1	l5	196	PRO	N-CD-CG	5.03	110.74	103.20
1	l7	156	GLY	N-CA-C	5.03	122.59	112.34
1	l8	184	TRP	CB-CG-CD1	5.03	134.44	126.90
1	l9	63	GLN	CA-C-N	5.03	127.43	120.29
1	l9	63	GLN	C-N-CA	5.03	127.43	120.29
1	l9	113	GLU	N-CA-C	-5.03	105.80	111.28
1	le	189	LEU	CA-C-O	-5.03	115.20	120.63
1	lk	229	ARG	CD-NE-CZ	5.03	131.44	124.40
1	28	169	TYR	CB-CG-CD1	-5.03	113.26	120.80
1	ls	49	PRO	N-CA-C	5.03	122.82	112.47
1	lw	62	HIS	ND1-CE1-NE2	5.03	113.42	108.40
1	ly	141	ILE	CA-C-O	5.03	126.09	120.71
1	ly	202	LEU	N-CA-CB	5.03	118.07	110.28
1	29	96	MET	CB-CA-C	5.03	118.06	109.72
1	lC	62	HIS	ND1-CE1-NE2	5.03	113.42	108.40
1	lE	80	TRP	CE2-CD2-CE3	5.03	123.83	118.80
1	lG	179	GLN	CA-C-N	5.03	127.78	120.79
1	lG	179	GLN	C-N-CA	5.03	127.78	120.79
1	2a	42	ALA	N-CA-C	5.03	116.76	111.28
1	lO	168	PHE	CB-CA-C	5.03	118.70	110.96
1	2l	50	GLN	CA-C-O	-5.03	115.54	120.82
1	2q	62	HIS	CB-CG-CD2	-5.03	124.67	131.20
1	2r	33	SER	CA-C-N	5.03	124.75	119.82
1	2r	33	SER	C-N-CA	5.03	124.75	119.82
1	2u	170	LYS	CA-C-N	5.03	127.01	120.28
1	2u	170	LYS	C-N-CA	5.03	127.01	120.28
1	2x	38	PRO	CB-CA-C	5.03	119.45	112.11
1	2A	210	THR	O-C-N	-5.03	117.31	122.94
1	2L	28	GLU	N-CA-C	5.03	116.76	111.28
1	2P	110	THR	O-C-N	-5.03	116.47	122.65
1	2U	221	VAL	O-C-N	-5.03	117.75	123.03
1	2X	20	LEU	CA-C-N	5.03	127.01	120.28
1	2X	20	LEU	C-N-CA	5.03	127.01	120.28
1	2Y	57	ASN	OD1-CG-ND2	-5.03	117.58	122.60
1	2Y	91	ILE	O-C-N	-5.03	117.30	122.63
1	3d	194	ALA	CA-C-O	5.03	126.87	121.44
1	3g	212	GLU	O-C-N	-5.03	116.86	122.09
1	3s	62	HIS	ND1-CG-CD2	5.03	111.12	106.10
1	3y	202	LEU	N-CA-C	-5.03	105.80	111.28
1	3H	11	VAL	O-C-N	-5.03	117.87	123.20
1	3M	115	ILE	N-CA-C	5.03	119.08	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3S	3	VAL	N-CA-C	5.03	115.72	108.93
1	4g	183	ASN	CA-C-N	5.03	127.52	120.28
1	4g	183	ASN	C-N-CA	5.03	127.52	120.28
1	4l	183	ASN	CA-C-O	5.03	125.88	120.55
1	4p	189	LEU	N-CA-C	5.03	116.45	111.07
1	4x	33	SER	CB-CA-C	-5.03	101.08	108.87
1	4A	81	ASP	N-CA-C	5.03	116.76	111.28
1	4G	33	SER	CA-C-N	5.03	125.47	120.04
1	4G	33	SER	C-N-CA	5.03	125.47	120.04
1	4I	143	ARG	CA-C-N	5.03	127.95	120.31
1	4I	143	ARG	C-N-CA	5.03	127.95	120.31
1	4K	195	ASN	CA-C-N	5.03	125.30	119.47
1	4K	195	ASN	C-N-CA	5.03	125.30	119.47
1	4L	41	SER	CA-C-O	-5.03	115.22	120.55
1	4O	26	VAL	O-C-N	-5.03	116.66	121.83
1	4P	161	PHE	CB-CG-CD1	-5.03	112.16	120.70
1	4R	68	MET	CA-CB-CG	5.03	124.15	114.10
1	4V	209	ALA	CA-C-N	5.03	129.36	120.87
1	4V	209	ALA	C-N-CA	5.03	129.36	120.87
1	51	26	VAL	O-C-N	-5.03	116.65	121.83
1	5H	39	MET	N-CA-CB	-5.03	102.73	110.12
1	5J	176	GLN	O-C-N	-5.03	117.26	123.44
1	65	74	ASN	CB-CG-ND2	-5.03	108.86	116.40
1	6f	149	SER	N-CA-CB	5.03	118.09	110.45
1	6j	13	GLN	OE1-CD-NE2	-5.03	117.57	122.60
1	6n	142	VAL	CA-CB-CG1	5.03	118.94	110.40
1	6A	200	THR	CA-C-N	5.03	126.89	120.56
1	6A	200	THR	C-N-CA	5.03	126.89	120.56
1	6B	202	LEU	O-C-N	-5.03	116.79	122.12
1	6D	126	VAL	CB-CA-C	-5.03	105.45	111.88
1	6E	65	ALA	O-C-N	-5.03	116.89	122.07
1	6L	193	ASN	CA-CB-CG	5.03	117.62	112.60
1	6R	135	ILE	N-CA-CB	5.03	117.37	110.54
1	6X	100	ARG	CA-C-N	5.03	125.66	120.03
1	6X	100	ARG	C-N-CA	5.03	125.66	120.03
1	74	175	GLU	N-CA-C	5.03	117.59	110.10
1	7j	151	LEU	O-C-N	-5.03	116.89	122.07
1	7l	189	LEU	O-C-N	-5.03	116.09	122.27
1	7n	225	GLY	O-C-N	-5.03	114.43	122.42
1	7r	100	ARG	NE-CZ-NH2	5.03	123.72	119.20
1	7L	33	SER	O-C-N	-5.03	116.00	121.53
1	7M	130	TYR	N-CA-C	5.03	116.84	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7T	83	LEU	N-CA-C	5.03	116.57	111.14
1	85	153	ILE	CA-C-O	5.03	127.71	122.13
1	8b	115	ILE	CB-CG1-CD1	5.03	124.35	113.80
1	8f	30	LYS	O-C-N	-5.03	115.46	122.19
1	8f	100	ARG	CB-CG-CD	5.03	122.86	111.30
1	8m	87	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
1	8s	58	THR	N-CA-CB	5.03	118.13	110.44
1	8w	148	THR	CB-CA-C	5.03	118.04	109.75
1	8A	131	LYS	CA-C-N	5.03	127.43	120.29
1	8A	131	LYS	C-N-CA	5.03	127.43	120.29
1	8C	81	ASP	CA-C-N	5.03	126.97	120.44
1	8C	81	ASP	C-N-CA	5.03	126.97	120.44
1	8C	146	SER	N-CA-C	5.03	116.89	109.50
1	8G	142	VAL	N-CA-C	5.03	115.25	110.42
1	8M	164	TYR	CB-CA-C	5.03	118.74	110.95
1	8S	111	LEU	CA-C-N	5.03	126.97	120.44
1	8S	111	LEU	C-N-CA	5.03	126.97	120.44
1	8T	33	SER	CA-C-N	5.03	126.12	119.84
1	8T	33	SER	C-N-CA	5.03	126.12	119.84
1	8T	80	TRP	CB-CG-CD1	-5.03	119.36	126.90
1	93	133	TRP	CB-CA-C	-5.03	99.81	110.31
1	9b	46	GLY	CA-C-N	5.03	127.91	120.82
1	9b	46	GLY	C-N-CA	5.03	127.91	120.82
1	9n	162	ARG	N-CA-C	5.03	121.50	110.80
1	9r	147	PRO	N-CA-C	-5.03	107.64	114.98
1	9C	183	ASN	CA-C-O	5.03	126.06	120.63
1	9F	68	MET	O-C-N	-5.03	116.79	122.12
1	9S	85	PRO	CA-C-N	5.03	127.65	122.27
1	9S	85	PRO	C-N-CA	5.03	127.65	122.27
1	9U	2	ILE	N-CA-C	-5.03	100.33	107.77
1	9Z	224	PRO	O-C-N	-5.03	116.78	123.01
1	Z	108	THR	N-CA-CB	5.03	118.29	110.80
1	a0	139	ASN	O-C-N	5.03	127.25	122.07
1	a9	88	ALA	N-CA-C	5.03	119.28	113.20
1	a9	212	GLU	N-CA-C	5.03	117.14	111.11
1	af	68	MET	CA-C-N	5.03	127.02	120.28
1	af	68	MET	C-N-CA	5.03	127.02	120.28
1	ak	59	VAL	CA-CB-CG2	-5.03	101.86	110.40
1	ar	162	ARG	N-CA-C	5.03	116.76	111.28
1	av	46	GLY	CA-C-N	5.03	128.61	121.42
1	av	46	GLY	C-N-CA	5.03	128.61	121.42
1	aE	15	ILE	O-C-N	-5.03	116.29	122.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aE	132	ARG	NE-CZ-NH2	5.03	123.72	119.20
1	b5	129	ILE	CA-C-N	5.03	126.97	120.44
1	b5	129	ILE	C-N-CA	5.03	126.97	120.44
1	b8	61	GLY	CA-C-N	5.03	129.32	122.34
1	b8	61	GLY	C-N-CA	5.03	129.32	122.34
1	b9	195	ASN	N-CA-CB	5.03	117.87	109.98
1	bb	187	GLU	CA-C-O	5.03	125.88	120.55
1	bj	97	ARG	NE-CZ-NH2	-5.03	114.68	119.20
1	bo	23	TRP	CG-CD1-NE1	-5.03	103.67	110.20
1	br	130	TYR	CA-C-N	5.03	126.97	120.44
1	br	130	TYR	C-N-CA	5.03	126.97	120.44
1	18	183	ASN	CA-C-O	-5.03	115.54	120.82
1	bs	80	TRP	CB-CG-CD1	5.03	134.44	126.90
1	bs	116	GLY	O-C-N	-5.03	117.32	122.19
1	19	197	ASP	CB-CG-OD2	5.03	129.96	118.40
1	bJ	189	LEU	CA-C-O	-5.03	115.22	120.55
1	bK	114	GLN	OE1-CD-NE2	-5.03	117.58	122.60
1	bL	11	VAL	N-CA-C	5.03	115.94	108.65
1	c0	97	ARG	O-C-N	-5.03	116.72	122.95
1	c1	165	VAL	N-CA-CB	5.03	117.37	110.54
1	c5	111	LEU	N-CA-CB	5.03	117.51	110.12
1	c6	100	ARG	CA-C-N	5.03	131.26	121.41
1	c6	100	ARG	C-N-CA	5.03	131.26	121.41
1	1d	60	GLY	CA-C-N	5.03	128.03	122.15
1	1d	60	GLY	C-N-CA	5.03	128.03	122.15
1	cm	222	GLY	CA-C-N	5.03	129.76	121.87
1	cm	222	GLY	C-N-CA	5.03	129.76	121.87
1	cy	81	ASP	O-C-N	-5.03	116.79	122.12
1	cy	179	GLN	CB-CG-CD	5.03	121.14	112.60
1	1f	142	VAL	CB-CA-C	5.03	118.40	111.97
1	cQ	200	THR	CA-C-O	5.03	126.28	120.90
1	cU	134	ILE	CB-CA-C	5.03	118.93	112.14
1	cU	138	LEU	N-CA-C	-5.03	105.80	111.28
1	d8	48	THR	N-CA-CB	5.03	116.71	109.78
1	d9	147	PRO	O-C-N	-5.03	117.23	123.01
1	dd	19	THR	CA-CB-OG1	5.03	117.14	109.60
1	df	197	ASP	CB-CA-C	-5.03	102.31	110.85
1	dh	192	GLN	CA-C-O	5.03	125.83	120.20
1	di	217	ALA	CA-C-O	-5.03	115.53	121.16
1	dk	94	GLY	N-CA-C	-5.03	108.07	114.85
1	dt	192	GLN	O-C-N	-5.03	116.42	122.15
1	dw	181	VAL	CB-CA-C	-5.03	105.28	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dy	19	THR	CA-CB-CG2	5.03	119.04	110.50
1	dC	193	ASN	N-CA-CB	-5.03	103.05	110.49
1	dF	166	ASP	CA-CB-CG	5.03	117.63	112.60
1	dG	67	GLN	CB-CG-CD	5.03	121.14	112.60
1	dH	180	GLU	CA-CB-CG	-5.03	104.05	114.10
1	dN	5	ASN	CA-C-N	5.03	127.01	120.28
1	dN	5	ASN	C-N-CA	5.03	127.01	120.28
1	dU	214	MET	CA-C-O	5.03	126.10	120.82
1	e1	223	GLY	CA-C-N	5.03	125.31	119.93
1	e1	223	GLY	C-N-CA	5.03	125.31	119.93
1	e4	221	VAL	O-C-N	5.03	127.16	122.23
1	ee	162	ARG	N-CA-C	5.03	117.49	111.71
1	ek	165	VAL	CB-CA-C	-5.03	105.36	112.14
1	1q	202	LEU	O-C-N	-5.03	116.42	122.15
1	eo	90	PRO	CA-C-N	5.03	128.09	120.75
1	eo	90	PRO	C-N-CA	5.03	128.09	120.75
1	et	164	TYR	CB-CA-C	5.03	118.77	110.88
1	1r	95	GLN	OE1-CD-NE2	5.03	127.63	122.60
1	eJ	173	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	eT	100	ARG	NH1-CZ-NH2	-5.03	112.77	119.30
1	eX	87	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	eY	155	GLN	O-C-N	-5.03	117.53	123.41
1	f3	181	VAL	CA-CB-CG2	-5.03	101.86	110.40
1	f5	141	ILE	CB-CA-C	-5.03	105.54	111.97
1	fb	83	LEU	N-CA-CB	-5.03	102.49	110.28
1	fn	177	ALA	N-CA-C	5.03	116.77	110.24
1	fr	191	VAL	CA-C-O	-5.03	115.52	120.85
1	fx	84	HIS	CA-CB-CG	5.03	118.83	113.80
1	fF	95	GLN	O-C-N	-5.03	117.31	123.19
1	fG	154	ARG	NE-CZ-NH1	5.03	126.53	121.50
1	fI	186	THR	CA-CB-OG1	5.03	117.14	109.60
1	fK	96	MET	CB-CA-C	5.03	117.51	109.07
1	fN	83	LEU	O-C-N	-5.03	116.79	122.12
1	1z	155	GLN	N-CA-C	5.03	117.18	110.35
1	c	94	GLY	CA-C-N	5.03	130.09	123.00
1	c	94	GLY	C-N-CA	5.03	130.09	123.00
1	j	25	LYS	O-C-N	-5.03	116.33	122.11
1	1	161	PHE	CA-C-N	5.03	127.32	120.54
1	1	161	PHE	C-N-CA	5.03	127.32	120.54
1	m	229	ARG	N-CA-C	-5.03	103.06	113.31
1	u	12	HIS	CG-CD2-NE2	5.03	112.22	107.20
1	A	2	ILE	N-CA-C	-5.03	100.51	107.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	12	HIS	CG-CD2-NE2	5.03	112.23	107.20
1	G	21	ASN	O-C-N	-5.03	116.89	122.07
1	M	174	ALA	N-CA-C	5.03	116.76	111.28
1	P	230	VAL	O-C-N	-5.03	117.00	122.83
1	R	13	GLN	CA-C-N	5.03	127.85	120.71
1	R	13	GLN	C-N-CA	5.03	127.85	120.71
1	R	23	TRP	CB-CG-CD1	-5.03	119.36	126.90
1	5	203	LYS	N-CA-C	5.03	117.49	111.71
1	5	211	LEU	N-CA-CB	-5.03	102.52	110.06
1	gf	226	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	gn	6	LEU	CA-C-O	5.02	126.56	118.92
1	gr	116	GLY	CA-C-N	5.02	127.01	120.28
1	gr	116	GLY	C-N-CA	5.02	127.01	120.28
1	gs	168	PHE	N-CA-C	-5.02	105.71	111.14
1	gw	70	LYS	CA-C-N	5.02	126.97	120.44
1	gw	70	LYS	C-N-CA	5.02	126.97	120.44
1	gw	72	THR	CA-C-N	5.02	126.89	120.56
1	gw	72	THR	C-N-CA	5.02	126.89	120.56
1	1E	226	HIS	CA-CB-CG	-5.02	108.78	113.80
1	h2	39	MET	CG-SD-CE	-5.02	89.85	100.90
1	hy	206	GLY	CA-C-N	5.02	124.63	119.56
1	hy	206	GLY	C-N-CA	5.02	124.63	119.56
1	hz	55	MET	CA-C-N	5.02	127.32	120.54
1	hz	55	MET	C-N-CA	5.02	127.32	120.54
1	1K	12	HIS	CB-CG-CD2	-5.02	124.67	131.20
1	hF	121	ASN	OD1-CG-ND2	5.02	127.62	122.60
1	hM	3	VAL	CA-CB-CG2	-5.02	101.86	110.40
1	i9	62	HIS	CA-CB-CG	-5.02	108.78	113.80
1	iM	135	ILE	CA-C-O	5.02	126.17	120.95
1	ja	55	MET	N-CA-C	5.02	116.45	111.07
1	1W	61	GLY	CA-C-N	5.02	129.86	122.63
1	1W	61	GLY	C-N-CA	5.02	129.86	122.63
1	jB	85	PRO	N-CA-CB	5.02	108.15	102.67
1	jN	89	GLY	N-CA-C	5.02	122.59	112.34
1	k3	141	ILE	CA-C-O	5.02	126.63	121.05
1	k5	217	ALA	CA-C-N	5.02	131.14	121.54
1	k5	217	ALA	C-N-CA	5.02	131.14	121.54
1	kb	196	PRO	CB-CA-C	5.02	119.85	111.56
1	kf	68	MET	CA-C-O	5.02	126.28	120.90
1	kg	65	ALA	CB-CA-C	5.02	118.84	110.90
1	kk	80	TRP	NE1-CE2-CD2	5.02	113.93	107.40
1	kA	3	VAL	O-C-N	-5.02	117.86	123.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kD	205	LEU	CA-C-N	5.02	129.76	121.87
1	kD	205	LEU	C-N-CA	5.02	129.76	121.87
1	kF	211	LEU	O-C-N	-5.02	116.89	122.07
1	24	126	VAL	N-CA-C	5.02	116.35	110.62
1	lm	16	SER	CB-CA-C	-5.02	101.18	109.27
1	lu	42	ALA	N-CA-C	5.02	118.18	111.75
1	lw	120	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	lx	172	LEU	CA-C-O	5.02	125.75	120.42
1	lz	26	VAL	CA-CB-CG1	5.02	118.94	110.40
1	lK	117	TRP	CA-CB-CG	-5.02	104.06	113.60
1	2h	212	GLU	CA-C-N	5.02	126.97	120.44
1	2h	212	GLU	C-N-CA	5.02	126.97	120.44
1	2D	22	ALA	O-C-N	-5.02	116.80	122.12
1	2L	162	ARG	CA-C-N	5.02	127.42	120.29
1	2L	162	ARG	C-N-CA	5.02	127.42	120.29
1	2R	104	ILE	N-CA-C	-5.02	105.52	111.00
1	32	186	THR	CA-C-N	5.02	126.97	120.44
1	32	186	THR	C-N-CA	5.02	126.97	120.44
1	3j	173	ARG	N-CA-C	5.02	116.44	111.07
1	3l	37	ILE	O-C-N	-5.02	116.50	120.07
1	3u	188	THR	N-CA-C	5.02	119.04	111.96
1	3D	142	VAL	CA-C-N	5.02	127.27	120.44
1	3D	142	VAL	C-N-CA	5.02	127.27	120.44
1	3N	68	MET	N-CA-CB	-5.02	102.56	110.30
1	45	219	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	4u	74	ASN	CA-C-N	5.02	127.27	120.44
1	4u	74	ASN	C-N-CA	5.02	127.27	120.44
1	4M	126	VAL	O-C-N	-5.02	117.00	121.87
1	53	39	MET	CB-CA-C	-5.02	102.99	110.88
1	5f	26	VAL	N-CA-C	-5.02	105.60	110.42
1	5k	47	ALA	N-CA-CB	-5.02	102.22	110.41
1	5k	143	ARG	N-CA-C	5.02	116.76	111.28
1	5U	100	ARG	CA-C-N	5.02	125.56	119.98
1	5U	100	ARG	C-N-CA	5.02	125.56	119.98
1	5W	19	THR	CA-C-N	5.02	127.95	120.31
1	5W	19	THR	C-N-CA	5.02	127.95	120.31
1	64	120	HIS	O-C-N	-5.02	115.91	122.59
1	6g	173	ARG	CA-C-O	5.02	125.75	120.42
1	6j	12	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	6A	32	PHE	CB-CG-CD1	-5.02	112.16	120.70
1	6P	118	MET	CA-C-O	5.02	125.16	119.18
1	7a	124	ILE	CA-C-O	5.02	122.87	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7L	113	GLU	CA-C-N	5.02	127.01	120.28
1	7L	113	GLU	C-N-CA	5.02	127.01	120.28
1	7N	55	MET	N-CA-C	5.02	116.45	111.07
1	7Q	68	MET	CG-SD-CE	-5.02	89.85	100.90
1	7T	135	ILE	CA-C-N	5.02	126.97	120.44
1	7T	135	ILE	C-N-CA	5.02	126.97	120.44
1	84	187	GLU	O-C-N	-5.02	116.42	122.15
1	8d	144	MET	CG-SD-CE	-5.02	89.85	100.90
1	8l	104	ILE	N-CA-C	5.02	115.75	110.62
1	8I	100	ARG	O-C-N	-5.02	115.63	122.36
1	92	102	SER	CA-CB-OG	5.02	121.15	111.10
1	93	69	LEU	CA-C-N	5.02	127.01	120.28
1	93	69	LEU	C-N-CA	5.02	127.01	120.28
1	95	100	ARG	N-CA-CB	-5.02	102.67	110.46
1	9e	192	GLN	CA-CB-CG	5.02	124.15	114.10
1	9r	24	VAL	N-CA-CB	-5.02	104.67	110.55
1	9s	136	LEU	CA-C-N	5.02	131.26	121.41
1	9s	136	LEU	C-N-CA	5.02	131.26	121.41
1	9u	29	GLU	N-CA-C	5.02	116.45	111.07
1	9v	169	TYR	CA-C-N	5.02	127.27	120.44
1	9v	169	TYR	C-N-CA	5.02	127.27	120.44
1	9R	162	ARG	CG-CD-NE	-5.02	100.95	112.00
1	9U	143	ARG	CA-C-N	5.02	127.27	120.44
1	9U	143	ARG	C-N-CA	5.02	127.27	120.44
1	9V	171	THR	CA-C-O	-5.02	115.09	120.42
1	a5	33	SER	CB-CA-C	-5.02	103.49	110.37
1	a7	132	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	ap	170	LYS	N-CA-C	5.02	116.76	111.28
1	aq	107	THR	CB-CA-C	-5.02	102.96	110.90
1	aA	97	ARG	CA-C-N	5.02	129.67	121.83
1	aA	97	ARG	C-N-CA	5.02	129.67	121.83
1	bd	35	GLU	CA-C-N	5.02	128.98	120.64
1	bd	35	GLU	C-N-CA	5.02	128.98	120.64
1	17	170	LYS	CA-C-N	5.02	127.01	120.28
1	17	170	LYS	C-N-CA	5.02	127.01	120.28
1	bv	47	ALA	CA-C-O	5.02	126.72	121.19
1	bx	80	TRP	O-C-N	5.02	127.44	122.12
1	bN	113	GLU	CA-C-N	5.02	126.97	120.44
1	bN	113	GLU	C-N-CA	5.02	126.97	120.44
1	bU	138	LEU	N-CA-C	5.02	116.76	111.28
1	c2	167	ARG	CA-C-O	-5.02	115.22	120.55
1	cH	131	LYS	CB-CA-C	-5.02	102.99	110.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	cL	230	VAL	CA-C-O	5.02	127.06	120.78
1	d3	219	GLN	N-CA-C	5.02	119.39	113.16
1	dC	28	GLU	CA-C-O	-5.02	115.55	120.82
1	dN	103	ASP	CA-C-O	5.02	125.82	120.24
1	dO	78	ALA	N-CA-C	5.02	116.76	111.28
1	dW	170	LYS	O-C-N	-5.02	116.79	122.12
1	e3	177	ALA	N-CA-C	5.02	121.50	110.80
1	eL	18	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	eR	151	LEU	O-C-N	-5.02	115.09	122.43
1	eZ	117	TRP	N-CA-CB	5.02	117.50	110.12
1	f5	211	LEU	N-CA-C	5.02	116.45	111.07
1	f8	229	ARG	CA-C-N	-5.02	115.96	122.94
1	f8	229	ARG	C-N-CA	-5.02	115.96	122.94
1	fc	174	ALA	N-CA-CB	-5.02	102.57	110.46
1	ff	76	GLU	O-C-N	-5.02	116.79	122.12
1	fm	173	ARG	N-CA-CB	-5.02	102.72	110.01
1	ft	227	LYS	CA-C-N	5.02	129.40	121.56
1	ft	227	LYS	C-N-CA	5.02	129.40	121.56
1	fD	139	ASN	CA-C-O	5.02	125.78	120.10
1	fQ	32	PHE	N-CA-CB	5.02	118.19	110.60
1	h	169	TYR	N-CA-CB	5.02	117.30	110.01
1	l	3	VAL	O-C-N	-5.02	117.27	123.00
1	gh	192	GLN	CA-C-N	5.02	129.93	121.14
1	gh	192	GLN	C-N-CA	5.02	129.93	121.14
1	go	208	ALA	CA-C-N	5.02	127.98	120.90
1	go	208	ALA	C-N-CA	5.02	127.98	120.90
1	gu	172	LEU	O-C-N	-5.02	116.80	122.12
1	gV	76	GLU	CA-C-O	-5.02	115.23	120.55
1	h8	165	VAL	CG1-CB-CG2	-5.02	99.75	110.80
1	hf	117	TRP	CB-CG-CD2	5.02	133.83	126.80
1	hf	169	TYR	O-C-N	5.02	127.31	122.09
1	hk	62	HIS	O-C-N	-5.02	115.91	122.59
1	hx	102	SER	N-CA-C	5.02	116.75	111.28
1	hx	226	HIS	CB-CG-ND1	5.02	130.24	122.70
1	1L	100	ARG	CG-CD-NE	-5.02	100.95	112.00
1	hK	119	THR	O-C-N	-5.02	116.27	122.25
1	hZ	171	THR	O-C-N	-5.02	116.90	122.07
1	1N	195	ASN	CA-C-N	5.02	125.05	119.32
1	1N	195	ASN	C-N-CA	5.02	125.05	119.32
1	i4	210	THR	O-C-N	-5.02	116.47	122.65
1	i6	99	PRO	N-CA-C	5.02	119.09	110.95
1	ib	230	VAL	CA-C-O	5.02	126.88	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1O	223	GLY	CA-C-O	-5.02	114.34	121.52
1	if	80	TRP	CA-C-O	5.02	126.27	120.90
1	ii	41	SER	CA-C-O	-5.02	115.23	120.55
1	ii	175	GLU	O-C-N	-5.02	117.08	123.01
1	ij	208	ALA	CA-C-N	5.02	128.33	120.75
1	ij	208	ALA	C-N-CA	5.02	128.33	120.75
1	in	151	LEU	N-CA-C	5.02	117.64	111.82
1	1P	5	ASN	CA-CB-CG	5.02	117.62	112.60
1	iu	156	GLY	CA-C-N	5.02	124.52	119.19
1	iu	156	GLY	C-N-CA	5.02	124.52	119.19
1	ix	85	PRO	N-CA-C	5.02	119.09	111.15
1	iC	133	TRP	O-C-N	5.02	127.24	122.07
1	iM	61	GLY	CA-C-O	5.02	129.59	122.51
1	iS	15	ILE	N-CA-C	5.02	119.79	109.34
1	j8	229	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	1U	158	LYS	N-CA-C	-5.02	104.41	110.44
1	jc	31	ALA	CB-CA-C	-5.02	102.96	110.90
1	jc	87	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	jq	67	GLN	N-CA-C	5.02	117.41	111.33
1	jt	176	GLN	N-CA-C	5.02	119.28	113.20
1	1Y	181	VAL	N-CA-C	5.02	115.74	110.62
1	jR	155	GLN	CA-C-O	5.02	126.31	120.49
1	jS	21	ASN	CB-CG-ND2	-5.02	108.87	116.40
1	jX	68	MET	O-C-N	-5.02	116.42	122.15
1	1Z	76	GLU	CA-C-N	5.02	126.97	120.44
1	1Z	76	GLU	C-N-CA	5.02	126.97	120.44
1	k4	230	VAL	CA-C-O	5.02	124.15	118.98
1	ki	158	LYS	CA-C-N	5.02	128.23	121.20
1	ki	158	LYS	C-N-CA	5.02	128.23	121.20
1	kt	194	ALA	CA-C-O	-5.02	116.09	121.56
1	kz	120	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	kC	21	ASN	CB-CA-C	5.02	118.84	110.81
1	kD	14	ALA	N-CA-C	5.02	117.33	110.55
1	23	36	VAL	CA-C-N	5.02	123.40	120.24
1	23	36	VAL	C-N-CA	5.02	123.40	120.24
1	kF	126	VAL	CA-C-N	5.02	125.67	119.99
1	kF	126	VAL	C-N-CA	5.02	125.67	119.99
1	kG	205	LEU	N-CA-C	5.02	117.71	110.28
1	kN	27	VAL	CA-C-O	5.02	125.89	120.47
1	kR	212	GLU	N-CA-C	5.02	117.14	111.11
1	kW	166	ASP	N-CA-C	-5.02	105.81	111.28
1	lb	186	THR	CA-CB-OG1	5.02	117.13	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lc	184	TRP	CE2-CD2-CE3	5.02	123.82	118.80
1	le	41	SER	N-CA-C	5.02	116.44	111.07
1	lf	188	THR	N-CA-C	5.02	119.24	111.56
1	lk	30	LYS	N-CA-CB	-5.02	103.15	111.49
1	lk	161	PHE	CA-C-O	5.02	125.87	120.55
1	lm	121	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	ln	105	ALA	CA-C-O	-5.02	113.80	119.78
1	lv	36	VAL	CA-CB-CG1	5.02	118.94	110.40
1	29	217	ALA	N-CA-C	5.02	121.50	110.80
1	lC	229	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	lK	67	GLN	OE1-CD-NE2	5.02	127.62	122.60
1	2a	177	ALA	N-CA-C	5.02	121.50	110.80
1	lO	167	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
1	2d	121	ASN	CB-CG-ND2	5.02	123.93	116.40
1	2m	87	HIS	N-CA-C	5.02	116.77	110.24
1	2n	124	ILE	O-C-N	-5.02	115.37	121.10
1	2o	103	ASP	CA-C-N	5.02	127.55	120.42
1	2o	103	ASP	C-N-CA	5.02	127.55	120.42
1	2q	25	LYS	CA-C-O	-5.02	115.09	120.42
1	2q	191	VAL	N-CA-C	5.02	115.79	110.72
1	2A	132	ARG	CA-CB-CG	5.02	124.14	114.10
1	2B	80	TRP	N-CA-C	5.02	116.44	111.07
1	2B	110	THR	N-CA-C	5.02	117.18	110.35
1	2C	70	LYS	O-C-N	-5.02	116.80	122.12
1	2T	82	ARG	O-C-N	5.02	128.45	122.27
1	2V	211	LEU	O-C-N	-5.02	116.80	122.12
1	30	24	VAL	N-CA-C	5.02	115.79	110.72
1	32	119	THR	CB-CA-C	5.02	116.97	109.13
1	36	140	LYS	N-CA-C	5.02	116.75	111.28
1	37	67	GLN	N-CA-C	-5.02	105.89	111.36
1	39	230	VAL	O-C-N	-5.02	117.22	123.10
1	3b	12	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	3z	155	GLN	O-C-N	-5.02	116.61	123.14
1	3D	87	HIS	N-CA-CB	5.02	117.44	109.51
1	3F	200	THR	CA-C-O	-5.02	115.23	120.55
1	3H	39	MET	CG-SD-CE	-5.02	89.85	100.90
1	3I	80	TRP	CA-C-N	5.02	127.94	120.31
1	3I	80	TRP	C-N-CA	5.02	127.94	120.31
1	3P	149	SER	CA-C-N	5.02	128.54	120.30
1	3P	149	SER	C-N-CA	5.02	128.54	120.30
1	3S	62	HIS	ND1-CG-CD2	5.02	111.12	106.10
1	3U	165	VAL	N-CA-C	5.02	115.63	110.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	41	172	LEU	N-CA-C	5.02	116.75	111.28
1	4d	65	ALA	N-CA-C	5.02	117.14	111.11
1	4f	23	TRP	CA-CB-CG	5.02	123.14	113.60
1	4q	27	VAL	CA-C-O	5.02	126.17	120.95
1	4F	206	GLY	CA-C-O	-5.02	114.34	121.52
1	4I	196	PRO	CA-C-N	5.02	127.42	120.29
1	4I	196	PRO	C-N-CA	5.02	127.42	120.29
1	4N	178	SER	N-CA-C	5.02	117.01	110.43
1	4T	180	GLU	CA-C-N	5.02	126.89	120.56
1	4T	180	GLU	C-N-CA	5.02	126.89	120.56
1	4Z	12	HIS	N-CA-CB	5.02	117.64	110.06
1	51	154	ARG	NH1-CZ-NH2	5.02	125.83	119.30
1	57	27	VAL	N-CA-C	5.02	115.24	110.42
1	5h	132	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	5m	82	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	5m	124	ILE	N-CA-CB	-5.02	106.24	111.61
1	5t	2	ILE	O-C-N	5.02	128.68	122.95
1	5A	164	TYR	CB-CG-CD2	-5.02	113.27	120.80
1	5P	66	MET	CA-C-N	5.02	127.01	120.28
1	5P	66	MET	C-N-CA	5.02	127.01	120.28
1	5X	6	LEU	O-C-N	-5.02	115.91	122.59
1	5X	217	ALA	O-C-N	-5.02	116.47	122.65
1	5Z	25	LYS	O-C-N	-5.02	116.90	122.07
1	61	179	GLN	CG-CD-NE2	5.02	123.94	116.40
1	69	55	MET	O-C-N	-5.02	116.90	122.07
1	6d	13	GLN	N-CA-C	-5.02	101.68	109.72
1	6h	59	VAL	CA-C-N	5.02	131.25	121.41
1	6h	59	VAL	C-N-CA	5.02	131.25	121.41
1	6k	182	LYS	N-CA-C	5.02	116.83	111.36
1	6m	183	ASN	N-CA-C	5.02	116.75	111.28
1	6o	147	PRO	N-CA-C	-5.02	109.46	114.68
1	6p	33	SER	CA-CB-OG	5.02	121.15	111.10
1	6s	144	MET	O-C-N	-5.02	116.90	122.07
1	6z	129	ILE	N-CA-CB	5.02	116.75	110.47
1	6K	99	PRO	O-C-N	-5.02	117.71	123.03
1	6W	48	THR	CA-CB-OG1	5.02	117.13	109.60
1	6Y	170	LYS	N-CA-C	5.02	117.14	111.11
1	6Z	43	LEU	N-CA-C	5.02	116.70	108.52
1	7c	209	ALA	O-C-N	-5.02	117.06	123.24
1	7k	172	LEU	CA-C-N	5.02	127.26	120.38
1	7k	172	LEU	C-N-CA	5.02	127.26	120.38
1	7k	216	THR	CA-C-O	5.02	125.76	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7m	48	THR	CA-C-N	5.02	125.05	119.32
1	7m	48	THR	C-N-CA	5.02	125.05	119.32
1	7o	43	LEU	CA-C-O	5.02	125.75	119.97
1	7w	184	TRP	CA-C-N	5.02	127.42	120.29
1	7w	184	TRP	C-N-CA	5.02	127.42	120.29
1	7z	196	PRO	CA-C-N	5.02	127.32	120.54
1	7z	196	PRO	C-N-CA	5.02	127.32	120.54
1	7D	138	LEU	N-CA-CB	5.02	117.42	109.94
1	7M	189	LEU	N-CA-C	5.02	116.75	111.28
1	84	105	ALA	CB-CA-C	-5.02	101.43	110.37
1	85	44	SER	N-CA-C	5.02	118.44	112.72
1	87	67	GLN	O-C-N	-5.02	116.80	122.12
1	88	132	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	88	226	HIS	CA-C-O	5.02	126.38	120.80
1	8c	214	MET	N-CA-C	5.02	117.14	111.11
1	8m	208	ALA	CA-C-N	5.02	127.90	120.82
1	8m	208	ALA	C-N-CA	5.02	127.90	120.82
1	8s	92	GLU	O-C-N	-5.02	116.13	121.30
1	8t	117	TRP	CE2-CD2-CE3	-5.02	113.78	118.80
1	8t	167	ARG	CA-C-N	5.02	127.42	120.29
1	8t	167	ARG	C-N-CA	5.02	127.42	120.29
1	8w	87	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	8x	87	HIS	CA-CB-CG	-5.02	108.78	113.80
1	8y	37	ILE	CA-C-N	5.02	124.51	119.19
1	8y	37	ILE	C-N-CA	5.02	124.51	119.19
1	8C	139	ASN	CA-CB-CG	5.02	117.62	112.60
1	8I	63	GLN	N-CA-C	5.02	117.48	111.71
1	8J	126	VAL	N-CA-C	5.02	117.33	111.05
1	8R	128	GLU	CB-CA-C	-5.02	103.00	110.88
1	91	205	LEU	N-CA-C	5.02	116.75	111.28
1	97	57	ASN	CA-CB-CG	-5.02	107.58	112.60
1	9k	37	ILE	CA-CB-CG1	-5.02	101.86	110.40
1	9t	35	GLU	N-CA-C	5.02	119.12	112.89
1	9v	94	GLY	N-CA-C	-5.02	104.77	112.85
1	9A	54	THR	N-CA-CB	5.02	117.29	110.01
1	9B	102	SER	CA-C-O	5.02	125.54	119.31
1	9C	92	GLU	CA-C-O	-5.02	115.02	120.69
1	9F	71	GLU	CA-C-N	5.02	127.01	120.28
1	9F	71	GLU	C-N-CA	5.02	127.01	120.28
1	9H	49	PRO	CA-C-N	5.02	126.97	120.44
1	9H	49	PRO	C-N-CA	5.02	126.97	120.44
1	9N	128	GLU	CA-C-N	5.02	126.99	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9N	128	GLU	C-N-CA	5.02	126.99	120.56
1	9S	230	VAL	N-CA-CB	5.02	119.52	111.23
1	ad	13	GLN	O-C-N	-5.02	116.62	123.15
1	ad	77	ALA	O-C-N	-5.02	116.80	122.12
1	ag	208	ALA	CB-CA-C	-5.02	101.70	110.09
1	ai	128	GLU	N-CA-C	5.02	116.76	111.28
1	an	76	GLU	N-CA-C	5.02	116.83	111.36
1	ar	2	ILE	N-CA-C	5.02	117.06	109.12
1	12	136	LEU	CA-C-N	5.02	125.67	119.99
1	12	136	LEU	C-N-CA	5.02	125.67	119.99
1	aw	131	LYS	CA-C-N	5.02	127.01	120.28
1	aw	131	LYS	C-N-CA	5.02	127.01	120.28
1	aE	40	PHE	O-C-N	-5.02	116.80	122.12
1	aH	163	ASP	CA-CB-CG	-5.02	107.58	112.60
1	aR	165	VAL	CB-CA-C	5.02	118.40	111.97
1	bc	55	MET	CB-CA-C	-5.02	102.45	110.79
1	be	105	ALA	CA-C-N	5.02	130.74	120.80
1	be	105	ALA	C-N-CA	5.02	130.74	120.80
1	bg	226	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	bj	135	ILE	CA-C-N	5.02	127.01	120.28
1	bj	135	ILE	C-N-CA	5.02	127.01	120.28
1	bt	74	ASN	N-CA-CB	-5.02	102.50	110.28
1	bu	229	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	bK	100	ARG	CA-C-N	5.02	125.67	119.99
1	bK	100	ARG	C-N-CA	5.02	125.67	119.99
1	bM	34	PRO	CA-C-N	5.02	128.63	120.60
1	bM	34	PRO	C-N-CA	5.02	128.63	120.60
1	bO	173	ARG	CA-C-O	5.02	125.87	120.55
1	bT	89	GLY	CA-C-N	5.02	126.12	119.84
1	bT	89	GLY	C-N-CA	5.02	126.12	119.84
1	bT	161	PHE	CB-CA-C	5.02	120.42	110.42
1	bW	197	ASP	CA-C-N	5.02	127.42	120.29
1	bW	197	ASP	C-N-CA	5.02	127.42	120.29
1	bX	105	ALA	CA-C-N	5.02	129.76	122.28
1	bX	105	ALA	C-N-CA	5.02	129.76	122.28
1	bY	57	ASN	O-C-N	-5.02	115.53	122.46
1	cg	56	LEU	N-CA-C	5.02	116.75	111.28
1	ch	116	GLY	CA-C-N	5.02	127.01	120.28
1	ch	116	GLY	C-N-CA	5.02	127.01	120.28
1	ci	122	PRO	N-CA-CB	5.02	108.12	102.60
1	co	170	LYS	N-CA-C	5.02	116.75	111.28
1	cp	171	THR	CA-CB-OG1	5.02	117.13	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1e	141	ILE	N-CA-CB	5.02	116.43	110.55
1	cq	67	GLN	CA-C-N	5.02	127.32	120.54
1	cq	67	GLN	C-N-CA	5.02	127.32	120.54
1	cy	71	GLU	N-CA-CB	-5.02	102.74	110.12
1	cz	161	PHE	CA-CB-CG	5.02	118.82	113.80
1	cF	124	ILE	CB-CA-C	-5.02	105.26	110.13
1	cG	166	ASP	CA-C-N	5.02	127.94	120.31
1	cG	166	ASP	C-N-CA	5.02	127.94	120.31
1	cH	210	THR	N-CA-CB	5.02	117.42	110.04
1	cQ	2	ILE	CA-C-N	5.02	131.01	121.97
1	cQ	2	ILE	C-N-CA	5.02	131.01	121.97
1	cY	132	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	d8	179	GLN	CA-C-N	5.02	127.01	120.28
1	d8	179	GLN	C-N-CA	5.02	127.01	120.28
1	d9	120	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	dd	32	PHE	N-CA-CB	5.02	117.33	109.85
1	de	16	SER	CA-C-N	5.02	124.63	119.05
1	de	16	SER	C-N-CA	5.02	124.63	119.05
1	df	12	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	di	43	LEU	N-CA-C	-5.02	107.00	113.23
1	dk	23	TRP	O-C-N	-5.02	116.90	122.07
1	do	167	ARG	N-CA-C	5.02	116.83	111.36
1	dq	16	SER	N-CA-C	5.02	116.84	109.71
1	dq	220	GLY	CA-C-O	5.02	125.85	119.72
1	dt	36	VAL	N-CA-CB	-5.02	104.19	110.47
1	1l	211	LEU	N-CA-C	5.02	117.41	111.33
1	dy	4	GLN	CG-CD-NE2	5.02	123.93	116.40
1	dA	79	GLU	N-CA-C	5.02	117.14	111.11
1	dK	132	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
1	dN	14	ALA	N-CA-C	5.02	117.18	110.35
1	dO	159	GLU	N-CA-C	5.02	115.38	109.60
1	dW	101	GLY	O-C-N	-5.02	116.17	122.70
1	1o	10	MET	N-CA-CB	5.02	117.67	109.69
1	e8	173	ARG	CA-C-N	5.02	127.01	120.28
1	e8	173	ARG	C-N-CA	5.02	127.01	120.28
1	ec	148	THR	N-CA-CB	-5.02	103.32	110.80
1	ee	66	MET	O-C-N	-5.02	116.87	122.09
1	ef	167	ARG	CA-CB-CG	-5.02	104.05	114.10
1	ei	185	MET	CA-C-O	-5.02	114.19	119.97
1	er	69	LEU	O-C-N	-5.02	116.90	122.07
1	er	92	GLU	CA-C-O	-5.02	113.71	118.33
1	eF	161	PHE	CA-CB-CG	-5.02	108.78	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eJ	143	ARG	CA-C-O	5.02	125.75	119.97
1	eU	58	THR	CA-C-N	5.02	126.99	120.56
1	eU	58	THR	C-N-CA	5.02	126.99	120.56
1	eW	49	PRO	CA-C-O	-5.02	111.46	120.60
1	eX	115	ILE	CA-C-N	5.02	125.67	119.99
1	eX	115	ILE	C-N-CA	5.02	125.67	119.99
1	1u	18	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
1	f5	187	GLU	CA-C-N	5.02	127.01	120.28
1	f5	187	GLU	C-N-CA	5.02	127.01	120.28
1	f8	50	GLN	N-CA-C	5.02	119.66	111.37
1	fd	5	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	fe	15	ILE	CA-C-O	5.02	126.60	121.23
1	ff	4	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	fr	229	ARG	NH1-CZ-NH2	-5.02	112.77	119.30
1	fs	144	MET	CG-SD-CE	-5.02	89.85	100.90
1	1A	22	ALA	N-CA-C	5.02	116.44	111.07
1	fZ	124	ILE	N-CA-C	-5.02	102.23	107.60
1	0	93	PRO	N-CA-C	5.02	119.09	111.15
1	c	116	GLY	O-C-N	-5.02	116.81	122.28
1	d	54	THR	O-C-N	5.02	127.31	122.09
1	o	119	THR	N-CA-CB	5.02	117.91	110.53
1	s	12	HIS	CA-CB-CG	5.02	118.82	113.80
1	A	214	MET	CG-SD-CE	-5.02	89.85	100.90
1	B	5	ASN	CB-CG-OD1	5.02	130.84	120.80
1	L	134	ILE	CA-C-O	5.02	126.17	120.95
1	R	23	TRP	CB-CG-CD2	5.02	133.83	126.80
1	S	130	TYR	CA-C-N	5.02	127.26	120.38
1	S	130	TYR	C-N-CA	5.02	127.26	120.38
1	S	202	LEU	N-CA-C	5.02	116.75	111.28
1	X	228	ALA	CA-C-O	-5.02	114.75	120.58
1	9	77	ALA	N-CA-CB	-5.02	102.74	110.12
1	9	80	TRP	NE1-CE2-CD2	5.02	113.93	107.40
1	g8	113	GLU	N-CA-CB	5.02	117.59	110.06
1	gy	84	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	gD	62	HIS	CA-CB-CG	-5.02	108.78	113.80
1	gF	33	SER	CA-CB-OG	5.02	121.14	111.10
1	gK	95	GLN	N-CA-CB	5.02	117.44	110.26
1	hd	204	ALA	O-C-N	-5.02	116.90	122.07
1	hs	203	LYS	CG-CD-CE	5.02	122.85	111.30
1	hA	200	THR	CA-CB-OG1	5.02	117.13	109.60
1	hM	186	THR	N-CA-C	5.02	116.44	111.07
1	hM	192	GLN	CA-C-O	5.02	125.77	120.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ia	141	ILE	N-CA-C	5.02	117.37	111.09
1	id	80	TRP	N-CA-C	5.02	117.48	111.71
1	iv	215	MET	CG-SD-CE	-5.02	89.85	100.90
1	iF	21	ASN	CB-CA-C	5.02	118.84	110.81
1	j1	50	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	jb	46	GLY	CA-C-O	5.02	126.11	119.58
1	jt	47	ALA	N-CA-CB	5.02	117.44	109.51
1	k9	62	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	kC	134	ILE	CA-C-O	-5.02	115.48	121.05
1	l2	31	ALA	CA-C-N	5.02	130.68	122.65
1	l2	31	ALA	C-N-CA	5.02	130.68	122.65
1	l6	158	LYS	N-CA-CB	5.02	119.26	110.98
1	l7	47	ALA	N-CA-C	5.02	117.51	110.23
1	lw	99	PRO	CA-C-O	-5.02	115.62	121.34
1	lE	98	GLU	CA-C-O	-5.02	114.52	119.49
1	lJ	193	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	lN	62	HIS	ND1-CG-CD2	5.02	111.12	106.10
1	lP	138	LEU	CA-C-N	5.02	127.51	120.28
1	lP	138	LEU	C-N-CA	5.02	127.51	120.28
1	2t	187	GLU	O-C-N	-5.02	115.91	122.59
1	2y	142	VAL	CA-C-O	5.02	126.17	120.95
1	2N	86	VAL	CA-CB-CG1	-5.02	101.86	110.40
1	2R	165	VAL	O-C-N	-5.02	116.80	121.87
1	3p	87	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	3Z	143	ARG	CG-CD-NE	-5.02	100.95	112.00
1	4c	103	ASP	N-CA-C	-5.02	105.90	112.23
1	4r	79	GLU	CA-C-N	5.02	126.97	120.44
1	4r	79	GLU	C-N-CA	5.02	126.97	120.44
1	4O	92	GLU	CA-C-O	-5.02	114.73	119.55
1	50	154	ARG	O-C-N	-5.02	118.05	123.42
1	58	162	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	5g	148	THR	CA-C-O	-5.02	115.20	120.92
1	5o	214	MET	O-C-N	-5.02	116.43	122.15
1	5B	171	THR	N-CA-CB	5.02	117.50	110.12
1	5G	162	ARG	N-CA-C	5.02	116.44	111.07
1	5Z	88	ALA	N-CA-C	5.02	117.16	110.53
1	61	126	VAL	CB-CA-C	-5.02	104.72	112.05
1	65	67	GLN	N-CA-C	5.02	116.83	111.36
1	67	8	GLY	N-CA-C	5.02	116.29	111.67
1	6g	104	ILE	O-C-N	-5.02	117.00	121.87
1	6w	36	VAL	N-CA-CB	5.02	118.11	110.58
1	6z	80	TRP	N-CA-C	5.02	116.75	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6V	63	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	71	100	ARG	CA-C-N	5.02	125.55	119.98
1	71	100	ARG	C-N-CA	5.02	125.55	119.98
1	72	75	GLU	CA-C-N	5.02	127.01	120.28
1	72	75	GLU	C-N-CA	5.02	127.01	120.28
1	72	76	GLU	N-CA-C	5.02	116.75	111.28
1	7r	5	ASN	O-C-N	-5.02	118.05	123.42
1	7K	67	GLN	O-C-N	-5.02	116.90	122.07
1	7K	200	THR	CA-C-N	5.02	127.55	120.42
1	7K	200	THR	C-N-CA	5.02	127.55	120.42
1	7O	168	PHE	O-C-N	-5.02	116.80	122.12
1	8p	79	GLU	CG-CD-OE1	5.02	129.95	118.40
1	8V	219	GLN	CA-C-N	5.02	131.25	121.41
1	8V	219	GLN	C-N-CA	5.02	131.25	121.41
1	90	72	THR	CB-CA-C	-5.02	103.00	110.88
1	9a	87	HIS	N-CA-C	5.02	116.81	110.33
1	9G	67	GLN	N-CA-C	5.02	117.41	111.33
1	9I	131	LYS	CA-C-O	5.02	125.74	120.42
1	9J	121	ASN	CB-CG-ND2	-5.02	108.87	116.40
1	9M	203	LYS	CA-C-O	5.02	125.71	119.79
1	Y	216	THR	CA-C-N	5.02	129.52	122.09
1	Y	216	THR	C-N-CA	5.02	129.52	122.09
1	a6	92	GLU	CA-C-N	5.02	125.30	119.93
1	a6	92	GLU	C-N-CA	5.02	125.30	119.93
1	ad	135	ILE	CA-CB-CG2	5.02	119.03	110.50
1	am	62	HIS	O-C-N	-5.02	116.33	123.01
1	aE	193	ASN	CA-C-O	5.02	125.36	119.28
1	b7	119	THR	CA-CB-OG1	5.02	117.13	109.60
1	18	84	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	bx	127	GLY	CA-C-N	5.02	127.42	120.29
1	bx	127	GLY	C-N-CA	5.02	127.42	120.29
1	bM	78	ALA	N-CA-C	5.02	117.14	111.11
1	bP	201	ILE	N-CA-C	5.02	115.79	110.72
1	cd	159	GLU	O-C-N	-5.02	115.26	121.64
1	1e	135	ILE	O-C-N	-5.02	117.00	121.87
1	cE	219	GLN	N-CA-C	5.02	117.51	110.23
1	1g	26	VAL	CA-C-O	5.02	126.17	120.95
1	cS	173	ARG	CA-CB-CG	5.02	124.14	114.10
1	cZ	49	PRO	CA-C-O	-5.02	111.46	120.60
1	1i	44	SER	CB-CA-C	-5.02	102.94	111.02
1	d5	222	GLY	CA-C-N	5.02	127.79	121.36
1	d5	222	GLY	C-N-CA	5.02	127.79	121.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dO	21	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	1o	169	TYR	CB-CA-C	5.02	119.12	110.79
1	el	226	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	eK	160	PRO	CA-C-N	5.02	127.01	120.28
1	eK	160	PRO	C-N-CA	5.02	127.01	120.28
1	1t	227	LYS	N-CA-C	5.02	118.24	112.57
1	f1	226	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	f5	140	LYS	CA-C-O	5.02	125.87	120.55
1	f8	185	MET	CG-SD-CE	-5.02	89.85	100.90
1	fi	222	GLY	CA-C-O	-5.02	116.03	122.01
1	fE	133	TRP	CB-CA-C	-5.02	102.45	110.79
1	fQ	150	ILE	CA-CB-CG1	5.02	118.94	110.40
1	fW	191	VAL	N-CA-C	5.02	115.63	110.36
1	fY	127	GLY	O-C-N	-5.02	117.37	122.19
1	g3	33	SER	CA-C-O	-5.02	115.04	119.86
1	g7	26	VAL	N-CA-C	5.02	115.74	110.62
1	c	16	SER	N-CA-CB	5.02	117.22	110.14
1	l	124	ILE	CA-C-N	5.02	126.12	119.84
1	l	124	ILE	C-N-CA	5.02	126.12	119.84
1	o	217	ALA	O-C-N	-5.02	116.80	122.12
1	E	119	THR	CA-C-N	5.02	129.89	120.95
1	E	119	THR	C-N-CA	5.02	129.89	120.95
1	T	64	ALA	CA-C-N	5.02	127.01	120.28
1	T	64	ALA	C-N-CA	5.02	127.01	120.28
1	5	219	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	gd	115	ILE	CB-CA-C	-5.02	105.29	112.22
1	1C	183	ASN	O-C-N	5.02	127.44	122.12
1	gi	38	PRO	CB-CA-C	5.02	120.08	112.55
1	gi	72	THR	N-CA-CB	5.02	117.50	110.12
1	gj	17	PRO	CA-C-N	5.02	127.00	120.28
1	gj	17	PRO	C-N-CA	5.02	127.00	120.28
1	1D	9	GLN	O-C-N	-5.02	117.13	122.85
1	gu	57	ASN	CA-CB-CG	-5.02	107.58	112.60
1	gw	77	ALA	N-CA-C	5.02	116.75	111.28
1	gx	226	HIS	O-C-N	-5.02	117.76	123.48
1	gB	39	MET	CA-C-O	5.02	126.09	120.82
1	gN	159	GLU	O-C-N	-5.02	115.55	121.32
1	1G	62	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	hf	176	GLN	O-C-N	-5.02	116.33	122.55
1	hk	188	THR	N-CA-C	-5.02	103.86	111.34
1	hm	52	LEU	CA-C-O	-5.02	115.23	120.55
1	1J	143	ARG	CG-CD-NE	-5.02	100.95	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hu	176	GLN	CB-CG-CD	-5.02	104.07	112.60
1	hw	59	VAL	N-CA-C	5.02	115.74	110.62
1	hC	81	ASP	CA-C-N	5.02	127.01	120.28
1	hC	81	ASP	C-N-CA	5.02	127.01	120.28
1	hJ	121	ASN	O-C-N	-5.02	114.93	121.10
1	hK	47	ALA	N-CA-C	5.02	117.49	109.96
1	hL	217	ALA	O-C-N	-5.02	116.06	122.94
1	hR	41	SER	CA-C-N	5.02	129.10	120.72
1	hR	41	SER	C-N-CA	5.02	129.10	120.72
1	hR	154	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	i1	159	GLU	O-C-N	-5.02	115.87	121.79
1	i2	229	ARG	CG-CD-NE	-5.02	100.96	112.00
1	i4	119	THR	N-CA-C	-5.02	106.94	113.16
1	i5	72	THR	CB-CA-C	-5.02	102.78	110.81
1	i9	226	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	il	13	GLN	O-C-N	-5.02	117.33	123.30
1	iu	18	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	iw	105	ALA	O-C-N	-5.02	115.92	122.59
1	iB	21	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	iQ	74	ASN	CB-CG-OD1	-5.02	110.76	120.80
1	iQ	111	LEU	N-CA-C	5.02	117.40	111.33
1	1S	115	ILE	CB-CG1-CD1	5.02	124.34	113.80
1	iV	166	ASP	CA-CB-CG	5.02	117.62	112.60
1	j2	12	HIS	CB-CA-C	-5.02	102.07	109.90
1	j4	138	LEU	CB-CA-C	-5.02	103.00	110.88
1	jj	66	MET	N-CA-CB	-5.02	102.74	110.12
1	jr	84	HIS	CB-CG-ND1	5.02	130.23	122.70
1	js	84	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	jt	112	GLN	N-CA-CB	5.02	117.50	110.12
1	jD	126	VAL	O-C-N	5.02	126.74	121.87
1	jE	143	ARG	CA-CB-CG	5.02	124.14	114.10
1	jW	25	LYS	N-CA-C	5.02	116.75	111.28
1	k4	94	GLY	N-CA-C	-5.02	108.19	115.27
1	kd	87	HIS	O-C-N	-5.02	117.33	123.30
1	kl	118	MET	CA-C-N	5.02	130.43	122.60
1	kl	118	MET	C-N-CA	5.02	130.43	122.60
1	kn	112	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	kt	173	ARG	CA-C-N	5.02	129.93	121.14
1	kt	173	ARG	C-N-CA	5.02	129.93	121.14
1	22	140	LYS	CA-C-O	-5.02	115.53	120.90
1	kF	167	ARG	O-C-N	-5.02	116.09	122.27
1	kL	201	ILE	CB-CA-C	5.02	118.39	111.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	24	199	LYS	CB-CG-CD	5.02	122.84	111.30
1	kT	160	PRO	N-CA-CB	5.02	107.67	103.25
1	kU	201	ILE	CB-CA-C	-5.02	105.36	112.14
1	l4	42	ALA	N-CA-C	-5.02	105.89	111.36
1	l6	170	LYS	O-C-N	-5.02	116.35	122.22
1	lb	167	ARG	CD-NE-CZ	5.02	131.43	124.40
1	le	100	ARG	O-C-N	-5.02	117.07	122.79
1	lm	219	GLN	O-C-N	-5.02	116.85	122.97
1	lo	141	ILE	CA-C-O	-5.02	116.05	121.27
1	lt	19	THR	CA-C-N	5.02	127.01	120.28
1	lt	19	THR	C-N-CA	5.02	127.01	120.28
1	lB	195	ASN	O-C-N	-5.02	115.94	121.66
1	lD	222	GLY	O-C-N	-5.02	116.17	122.70
1	lJ	176	GLN	CA-C-N	-5.02	113.17	120.75
1	lJ	176	GLN	C-N-CA	-5.02	113.17	120.75
1	lL	57	ASN	CA-C-N	5.02	127.51	120.28
1	lL	57	ASN	C-N-CA	5.02	127.51	120.28
1	lN	115	ILE	N-CA-C	5.02	115.63	110.36
1	2f	26	VAL	CA-CB-CG1	5.02	118.93	110.40
1	2h	149	SER	CA-C-N	5.02	127.34	120.46
1	2h	149	SER	C-N-CA	5.02	127.34	120.46
1	2l	215	MET	O-C-N	-5.02	116.10	122.27
1	2p	42	ALA	CA-C-N	5.02	127.42	120.29
1	2p	42	ALA	C-N-CA	5.02	127.42	120.29
1	2s	23	TRP	N-CA-CB	-5.02	102.74	110.12
1	2s	26	VAL	CA-C-O	-5.02	115.05	120.47
1	2u	113	GLU	CA-C-N	5.02	126.97	120.44
1	2u	113	GLU	C-N-CA	5.02	126.97	120.44
1	2v	19	THR	CA-CB-CG2	5.02	119.03	110.50
1	2C	132	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	2H	171	THR	CA-C-O	5.02	124.87	119.15
1	2H	173	ARG	CA-C-O	5.02	124.42	118.90
1	2K	196	PRO	N-CD-CG	5.02	110.73	103.20
1	2L	120	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	33	18	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	37	207	PRO	N-CA-C	-5.02	107.00	113.57
1	3b	201	ILE	CA-CB-CG2	-5.02	101.97	110.50
1	3d	62	HIS	CG-CD2-NE2	-5.02	102.18	107.20
1	3f	144	MET	CG-SD-CE	-5.02	89.86	100.90
1	3h	132	ARG	O-C-N	-5.02	116.80	122.12
1	3u	186	THR	O-C-N	-5.02	116.09	122.17
1	3z	38	PRO	CA-C-O	5.02	126.72	119.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3z	68	MET	N-CA-CB	5.02	117.59	110.16
1	3D	103	ASP	CA-CB-CG	5.02	117.62	112.60
1	3G	161	PHE	O-C-N	-5.02	116.80	122.12
1	3J	154	ARG	CA-C-O	-5.02	115.89	121.51
1	3N	107	THR	CA-C-N	5.02	130.82	122.54
1	3N	107	THR	C-N-CA	5.02	130.82	122.54
1	3P	115	ILE	O-C-N	-5.02	117.00	121.87
1	3P	176	GLN	CA-C-O	5.02	127.52	121.65
1	3X	10	MET	N-CA-C	5.02	117.58	110.10
1	3Z	50	GLN	N-CA-C	5.02	116.75	111.28
1	43	7	GLN	CB-CG-CD	5.02	121.13	112.60
1	47	117	TRP	N-CA-C	5.02	116.75	111.28
1	4h	230	VAL	CB-CA-C	5.02	118.09	111.21
1	4i	64	ALA	N-CA-CB	5.02	117.59	110.16
1	4i	95	GLN	N-CA-CB	5.02	118.58	110.85
1	4i	115	ILE	CA-C-N	5.02	125.51	119.94
1	4i	115	ILE	C-N-CA	5.02	125.51	119.94
1	4m	37	ILE	O-C-N	-5.02	117.21	120.42
1	4n	105	ALA	N-CA-C	-5.02	106.00	111.82
1	4r	54	THR	N-CA-C	5.02	116.75	111.28
1	4s	216	THR	N-CA-C	-5.02	107.22	113.55
1	4D	15	ILE	N-CA-C	5.02	116.15	109.37
1	4D	58	THR	CB-CA-C	-5.02	102.46	110.79
1	4D	79	GLU	CA-C-N	5.02	126.97	120.44
1	4D	79	GLU	C-N-CA	5.02	126.97	120.44
1	4E	76	GLU	CA-C-O	5.02	125.87	120.55
1	4G	140	LYS	O-C-N	5.02	128.09	122.22
1	4I	84	HIS	CB-CG-ND1	-5.02	115.17	122.70
1	4L	177	ALA	CA-C-N	5.02	127.84	120.71
1	4L	177	ALA	C-N-CA	5.02	127.84	120.71
1	4M	171	THR	CA-C-O	5.02	125.14	119.27
1	4Y	141	ILE	N-CA-C	5.02	115.79	110.72
1	51	84	HIS	CB-CA-C	-5.02	102.11	111.20
1	55	34	PRO	CA-C-N	5.02	127.94	120.31
1	55	34	PRO	C-N-CA	5.02	127.94	120.31
1	56	133	TRP	CA-C-O	5.02	126.09	120.82
1	57	168	PHE	O-C-N	-5.02	116.81	122.03
1	5k	18	ARG	CA-C-O	5.02	126.27	120.90
1	5o	87	HIS	CA-CB-CG	5.02	118.82	113.80
1	5z	53	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	5G	134	ILE	CA-C-O	-5.02	115.53	120.85
1	5G	222	GLY	CA-C-N	5.02	129.75	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5G	222	GLY	C-N-CA	5.02	129.75	121.87
1	5H	163	ASP	N-CA-C	5.02	116.75	111.28
1	5L	100	ARG	CA-C-N	5.02	125.66	119.99
1	5L	100	ARG	C-N-CA	5.02	125.66	119.99
1	5N	197	ASP	CA-CB-CG	-5.02	107.58	112.60
1	5W	63	GLN	N-CA-C	5.02	117.64	111.82
1	63	61	GLY	O-C-N	-5.02	117.54	122.86
1	64	102	SER	CA-CB-OG	5.02	121.14	111.10
1	6a	225	GLY	CA-C-N	5.02	129.68	122.40
1	6a	225	GLY	C-N-CA	5.02	129.68	122.40
1	6e	180	GLU	N-CA-C	5.02	116.83	111.36
1	6u	197	ASP	O-C-N	-5.02	116.90	122.07
1	6u	215	MET	N-CA-C	5.02	119.11	112.89
1	6y	115	ILE	O-C-N	-5.02	117.00	121.87
1	6y	160	PRO	O-C-N	-5.02	116.89	123.06
1	6D	52	LEU	CA-C-N	5.02	127.01	120.28
1	6D	52	LEU	C-N-CA	5.02	127.01	120.28
1	6G	2	ILE	N-CA-C	5.02	115.20	108.17
1	6G	5	ASN	O-C-N	-5.02	116.90	122.07
1	6Q	109	SER	O-C-N	-5.02	117.24	123.36
1	7a	83	LEU	N-CA-CB	-5.02	102.73	110.16
1	7j	114	GLN	CB-CG-CD	-5.02	104.07	112.60
1	7x	178	SER	N-CA-C	5.02	121.49	110.80
1	7x	184	TRP	CB-CG-CD1	-5.02	119.37	126.90
1	7x	199	LYS	CB-CA-C	5.02	118.84	110.81
1	7B	166	ASP	N-CA-CB	-5.02	102.73	110.01
1	7M	141	ILE	CA-C-N	5.02	127.34	120.46
1	7M	141	ILE	C-N-CA	5.02	127.34	120.46
1	7N	198	CYS	CA-C-N	5.02	127.51	120.28
1	7N	198	CYS	C-N-CA	5.02	127.51	120.28
1	8f	126	VAL	CA-C-N	-5.02	114.01	120.34
1	8f	126	VAL	C-N-CA	-5.02	114.01	120.34
1	8r	112	GLN	CB-CG-CD	5.02	121.13	112.60
1	8y	228	ALA	N-CA-C	-5.02	107.20	113.38
1	8C	92	GLU	CA-C-N	5.02	125.30	119.93
1	8C	92	GLU	C-N-CA	5.02	125.30	119.93
1	8D	51	ASP	CB-CA-C	-5.02	102.32	110.85
1	8D	79	GLU	CA-C-N	5.02	126.97	120.44
1	8D	79	GLU	C-N-CA	5.02	126.97	120.44
1	8D	115	ILE	N-CA-C	5.02	115.74	110.62
1	8I	128	GLU	CA-C-O	5.02	125.74	120.42
1	8N	12	HIS	CG-CD2-NE2	5.02	112.22	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8O	199	LYS	N-CA-C	5.02	117.48	111.71
1	8R	88	ALA	CB-CA-C	-5.02	99.58	109.67
1	91	143	ARG	N-CA-C	5.02	117.48	111.71
1	9a	105	ALA	N-CA-C	5.02	117.48	111.71
1	9a	184	TRP	CG-CD2-CE3	5.02	138.92	133.90
1	9b	71	GLU	N-CA-C	5.02	117.13	111.11
1	9u	5	ASN	CB-CA-C	-5.02	110.77	116.54
1	9y	132	ARG	CG-CD-NE	-5.02	100.96	112.00
1	9H	213	GLU	O-C-N	-5.02	116.80	122.12
1	9J	48	THR	CA-C-O	-5.02	115.70	120.97
1	9N	130	TYR	O-C-N	-5.02	116.43	122.15
1	9V	213	GLU	N-CA-C	5.02	116.83	111.36
1	9X	162	ARG	N-CA-C	5.02	116.75	111.28
1	aa	167	ARG	N-CA-CB	5.02	118.06	110.28
1	ab	108	THR	O-C-N	-5.02	115.92	122.39
1	af	142	VAL	O-C-N	-5.02	116.99	121.91
1	aj	133	TRP	O-C-N	-5.02	116.09	122.27
1	aj	201	ILE	O-C-N	5.02	126.83	121.91
1	ak	20	LEU	N-CA-C	5.02	116.83	111.36
1	ak	215	MET	N-CA-C	5.02	118.56	112.23
1	aq	197	ASP	CA-C-N	5.02	127.27	120.44
1	aq	197	ASP	C-N-CA	5.02	127.27	120.44
1	ay	161	PHE	CB-CA-C	5.02	119.38	110.85
1	aD	212	GLU	CA-C-N	5.02	127.01	120.28
1	aD	212	GLU	C-N-CA	5.02	127.01	120.28
1	aP	120	HIS	N-CA-C	5.02	117.58	110.50
1	aS	64	ALA	CA-C-O	-5.02	115.10	120.42
1	b1	100	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	b3	80	TRP	CB-CA-C	5.02	118.76	110.88
1	bb	23	TRP	CA-C-O	5.02	125.87	120.55
1	bg	155	GLN	CB-CA-C	5.02	117.78	109.70
1	bj	159	GLU	O-C-N	-5.02	115.55	121.32
1	bo	8	GLY	CA-C-N	5.02	129.86	122.63
1	bo	8	GLY	C-N-CA	5.02	129.86	122.63
1	br	74	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	bx	168	PHE	CA-C-O	5.02	126.09	120.82
1	19	145	TYR	CA-C-O	5.02	125.75	119.78
1	bF	79	GLU	CA-C-N	5.02	127.00	120.28
1	bF	79	GLU	C-N-CA	5.02	127.00	120.28
1	bG	44	SER	N-CA-CB	5.02	117.89	110.56
1	bO	164	TYR	CA-C-N	5.02	127.08	120.60
1	bO	164	TYR	C-N-CA	5.02	127.08	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bV	183	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	bW	169	TYR	O-C-N	-5.02	115.70	122.43
1	bW	197	ASP	CA-C-O	5.02	125.87	120.55
1	bY	22	ALA	CA-C-N	5.02	127.32	120.54
1	bY	22	ALA	C-N-CA	5.02	127.32	120.54
1	c7	39	MET	CA-C-N	5.02	126.96	120.44
1	c7	39	MET	C-N-CA	5.02	126.96	120.44
1	c9	136	LEU	CA-C-N	5.02	125.55	119.98
1	c9	136	LEU	C-N-CA	5.02	125.55	119.98
1	co	23	TRP	CB-CG-CD1	-5.02	119.37	126.90
1	co	199	LYS	CA-CB-CG	5.02	124.14	114.10
1	1e	126	VAL	CA-C-N	5.02	125.51	119.94
1	1e	126	VAL	C-N-CA	5.02	125.51	119.94
1	cF	113	GLU	O-C-N	-5.02	116.43	122.15
1	cI	111	LEU	CA-C-N	5.02	127.51	120.28
1	cI	111	LEU	C-N-CA	5.02	127.51	120.28
1	1g	83	LEU	N-CA-C	5.02	116.75	111.28
1	cN	67	GLN	CB-CG-CD	5.02	121.13	112.60
1	cN	83	LEU	N-CA-C	5.02	119.50	113.17
1	cP	56	LEU	CB-CA-C	-5.02	100.14	110.38
1	cS	23	TRP	O-C-N	-5.02	116.43	122.15
1	cV	62	HIS	N-CA-C	5.02	118.67	112.24
1	cV	176	GLN	CA-C-O	5.02	125.14	119.27
1	cW	172	LEU	N-CA-C	5.02	116.75	111.28
1	cY	171	THR	N-CA-C	5.02	116.44	111.07
1	cZ	62	HIS	ND1-CG-CD2	5.02	111.12	106.10
1	d5	24	VAL	N-CA-C	5.02	116.34	110.62
1	dm	131	LYS	N-CA-C	5.02	116.75	111.28
1	dq	174	ALA	CA-C-N	5.02	128.47	121.24
1	dq	174	ALA	C-N-CA	5.02	128.47	121.24
1	dw	77	ALA	CA-C-N	5.02	127.01	120.28
1	dw	77	ALA	C-N-CA	5.02	127.01	120.28
1	dy	65	ALA	CA-C-N	5.02	127.01	120.28
1	dy	65	ALA	C-N-CA	5.02	127.01	120.28
1	dI	195	ASN	CA-C-O	-5.02	115.02	120.69
1	dY	167	ARG	N-CA-C	5.02	117.64	111.82
1	eb	203	LYS	N-CA-C	5.02	117.40	111.33
1	ee	118	MET	CB-CA-C	-5.02	99.82	110.31
1	eo	26	VAL	CA-C-N	5.02	126.89	120.56
1	eo	26	VAL	C-N-CA	5.02	126.89	120.56
1	eo	26	VAL	N-CA-C	5.02	115.74	110.62
1	ev	83	LEU	N-CA-C	5.02	117.48	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ev	222	GLY	O-C-N	-5.02	119.81	123.52
1	ew	226	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	ey	2	ILE	N-CA-CB	5.02	117.49	110.56
1	eD	139	ASN	CA-CB-CG	-5.02	107.58	112.60
1	eK	135	ILE	CA-CB-CG1	5.02	118.93	110.40
1	eM	200	THR	N-CA-C	5.02	116.75	111.28
1	eO	111	LEU	CB-CA-C	-5.02	102.15	110.68
1	eP	86	VAL	CA-CB-CG2	-5.02	101.86	110.40
1	1v	7	GLN	N-CA-CB	-5.02	103.95	110.88
1	fa	11	VAL	CA-CB-CG2	5.02	118.93	110.40
1	fd	23	TRP	CB-CG-CD1	-5.02	119.37	126.90
1	fh	158	LYS	CA-C-N	5.02	127.37	120.39
1	fh	158	LYS	C-N-CA	5.02	127.37	120.39
1	fl	11	VAL	N-CA-CB	5.02	119.28	110.49
1	fo	94	GLY	N-CA-C	-5.02	108.31	115.64
1	fw	165	VAL	CA-C-O	5.02	126.17	120.95
1	1y	105	ALA	N-CA-CB	-5.02	102.76	110.44
1	fE	29	GLU	O-C-N	-5.02	116.71	122.08
1	fW	124	ILE	CA-CB-CG1	5.02	118.93	110.40
1	1A	12	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	1A	209	ALA	N-CA-C	5.02	117.18	110.35
1	fY	130	TYR	O-C-N	-5.02	116.80	122.12
1	fY	173	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	0	10	MET	CG-SD-CE	-5.02	89.86	100.90
1	d	88	ALA	CA-C-N	5.02	129.75	121.87
1	d	88	ALA	C-N-CA	5.02	129.75	121.87
1	f	22	ALA	CA-C-N	5.02	127.27	120.44
1	f	22	ALA	C-N-CA	5.02	127.27	120.44
1	m	212	GLU	N-CA-CB	-5.02	102.50	110.28
1	o	188	THR	CB-CA-C	5.02	118.88	111.65
1	p	226	HIS	CA-CB-CG	5.02	118.82	113.80
1	q	43	LEU	N-CA-C	5.02	116.75	111.28
1	s	139	ASN	CA-CB-CG	-5.02	107.58	112.60
1	B	113	GLU	CA-C-O	5.02	125.87	120.55
1	3	72	THR	CA-C-N	5.02	126.89	120.56
1	3	72	THR	C-N-CA	5.02	126.89	120.56
1	I	9	GLN	N-CA-C	5.02	117.79	109.46
1	P	67	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	T	4	GLN	CA-C-O	5.02	127.20	121.28
1	U	203	LYS	CA-C-O	5.02	126.09	120.82
1	W	177	ALA	CA-C-N	5.02	130.10	120.97
1	W	177	ALA	C-N-CA	5.02	130.10	120.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gc	153	ILE	N-CA-CB	-5.02	105.06	110.53
1	gj	178	SER	N-CA-C	5.02	117.00	110.43
1	gl	231	LEU	N-CA-CB	-5.02	101.97	110.50
1	gr	38	PRO	N-CD-CG	5.02	110.73	103.20
1	gD	100	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	gD	158	LYS	CA-C-O	-5.02	113.48	119.35
1	gM	139	ASN	CA-CB-CG	-5.02	107.58	112.60
1	h2	210	THR	CA-CB-OG1	5.02	117.13	109.60
1	ha	114	GLN	CA-C-O	5.02	126.09	120.82
1	hd	53	ASN	CA-CB-CG	-5.02	107.58	112.60
1	hh	65	ALA	N-CA-C	5.02	117.13	111.11
1	hl	176	GLN	O-C-N	-5.02	115.85	122.47
1	hm	81	ASP	N-CA-C	5.02	117.64	111.82
1	1J	214	MET	N-CA-C	5.02	116.83	111.36
1	hr	6	LEU	CA-C-O	-5.02	115.76	122.03
1	hu	144	MET	CA-C-N	5.02	127.26	120.44
1	hu	144	MET	C-N-CA	5.02	127.26	120.44
1	hw	205	LEU	O-C-N	-5.02	116.90	122.07
1	hw	224	PRO	CA-C-O	-5.02	115.68	121.95
1	hz	200	THR	N-CA-C	5.02	116.75	111.28
1	hJ	91	ILE	O-C-N	-5.02	117.96	123.18
1	hN	170	LYS	N-CA-CB	5.02	117.29	110.01
1	hS	115	ILE	N-CA-CB	5.02	116.42	110.55
1	hU	64	ALA	CA-C-O	5.02	125.87	120.55
1	hY	86	VAL	N-CA-C	5.02	116.47	109.80
1	i0	116	GLY	CA-C-O	-5.02	115.28	120.90
1	ic	98	GLU	CA-C-N	5.02	125.25	119.83
1	ic	98	GLU	C-N-CA	5.02	125.25	119.83
1	ie	24	VAL	CA-C-N	5.02	127.00	120.28
1	ie	24	VAL	C-N-CA	5.02	127.00	120.28
1	il	173	ARG	CA-C-O	5.02	125.87	120.55
1	1P	17	PRO	N-CA-C	5.02	120.13	113.86
1	io	190	LEU	CA-C-N	5.02	126.88	120.56
1	io	190	LEU	C-N-CA	5.02	126.88	120.56
1	iA	71	GLU	N-CA-C	5.02	116.44	111.07
1	iA	218	CYS	O-C-N	-5.02	115.92	122.59
1	iD	22	ALA	N-CA-C	5.02	117.48	111.71
1	iL	190	LEU	N-CA-C	5.02	116.83	111.36
1	iP	17	PRO	N-CA-CB	-5.02	98.69	103.51
1	iP	204	ALA	CA-C-N	5.02	126.96	120.44
1	iP	204	ALA	C-N-CA	5.02	126.96	120.44
1	iY	36	VAL	CA-C-N	5.02	124.34	120.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iY	36	VAL	C-N-CA	5.02	124.34	120.33
1	iY	100	ARG	CD-NE-CZ	5.02	131.43	124.40
1	jk	114	GLN	CA-C-N	5.02	127.33	120.46
1	jk	114	GLN	C-N-CA	5.02	127.33	120.46
1	jk	133	TRP	N-CA-C	-5.02	105.52	111.69
1	jp	203	LYS	CA-C-N	5.02	127.26	120.44
1	jp	203	LYS	C-N-CA	5.02	127.26	120.44
1	jt	126	VAL	CA-C-N	5.02	126.66	120.34
1	jt	126	VAL	C-N-CA	5.02	126.66	120.34
1	jF	19	THR	CA-CB-CG2	5.02	119.03	110.50
1	jO	134	ILE	CA-CB-CG1	-5.02	101.87	110.40
1	jQ	164	TYR	N-CA-C	5.02	116.75	111.28
1	jU	84	HIS	CA-CB-CG	-5.02	108.78	113.80
1	k0	93	PRO	CA-N-CD	-5.02	104.97	112.00
1	k4	148	THR	CA-C-O	5.02	126.78	121.11
1	20	190	LEU	CA-C-O	5.02	125.87	120.55
1	kb	135	ILE	N-CA-C	5.02	115.74	110.62
1	kk	57	ASN	CA-CB-CG	-5.02	107.58	112.60
1	kk	171	THR	O-C-N	-5.02	116.80	122.12
1	ko	82	ARG	O-C-N	-5.02	116.80	122.12
1	ku	57	ASN	O-C-N	-5.02	115.70	122.43
1	kC	23	TRP	CA-C-N	5.02	127.61	120.53
1	kC	23	TRP	C-N-CA	5.02	127.61	120.53
1	kC	62	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	kD	58	THR	CA-C-O	5.02	125.53	119.31
1	kG	8	GLY	CA-C-N	5.02	129.84	122.77
1	kG	8	GLY	C-N-CA	5.02	129.84	122.77
1	kM	63	GLN	CB-CA-C	5.02	118.76	110.88
1	kM	220	GLY	CA-C-N	5.02	128.53	120.30
1	kM	220	GLY	C-N-CA	5.02	128.53	120.30
1	kX	83	LEU	CA-C-O	5.02	125.87	120.70
1	kX	138	LEU	CA-C-N	5.02	127.41	120.29
1	kX	138	LEU	C-N-CA	5.02	127.41	120.29
1	kY	49	PRO	O-C-N	-5.02	116.10	122.17
1	l1	168	PHE	CA-C-O	5.02	125.87	120.55
1	l6	94	GLY	O-C-N	-5.02	116.26	122.23
1	lf	2	ILE	O-C-N	-5.02	117.96	123.18
1	lj	14	ALA	CA-C-O	-5.02	115.63	121.15
1	lk	37	ILE	O-C-N	-5.02	117.21	120.42
1	lk	82	ARG	CA-C-N	5.02	127.41	120.29
1	lk	82	ARG	C-N-CA	5.02	127.41	120.29
1	lr	180	GLU	CA-C-N	5.02	127.33	120.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lr	180	GLU	C-N-CA	5.02	127.33	120.46
1	lw	200	THR	N-CA-CB	5.02	117.50	110.12
1	ly	24	VAL	CA-CB-CG2	-5.02	101.87	110.40
1	lL	9	GLN	N-CA-C	5.02	117.00	110.43
1	lL	213	GLU	N-CA-CB	-5.02	102.61	110.44
1	lO	15	ILE	CA-C-O	5.02	127.31	120.99
1	lP	135	ILE	O-C-N	-5.02	117.00	121.87
1	2b	229	ARG	O-C-N	-5.02	116.77	122.89
1	2h	135	ILE	CB-CA-C	-5.02	105.30	112.22
1	2i	5	ASN	O-C-N	-5.02	116.87	122.09
1	2i	191	VAL	N-CA-C	5.02	115.74	110.62
1	2l	13	GLN	CB-CG-CD	5.02	121.13	112.60
1	2l	176	GLN	CA-C-O	5.02	127.25	121.28
1	2m	192	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	2w	185	MET	O-C-N	-5.02	116.80	122.12
1	2M	48	THR	N-CA-CB	5.02	117.00	109.88
1	2T	62	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	2T	126	VAL	N-CA-C	5.02	115.79	110.72
1	30	67	GLN	N-CA-C	5.02	116.75	111.28
1	32	51	ASP	CA-C-N	5.02	127.42	120.29
1	32	51	ASP	C-N-CA	5.02	127.42	120.29
1	38	39	MET	CA-C-O	5.02	126.09	120.82
1	3b	10	MET	N-CA-C	5.02	117.75	110.42
1	3c	64	ALA	N-CA-C	5.02	116.75	111.28
1	3g	49	PRO	N-CA-CB	5.02	108.52	103.25
1	3h	142	VAL	CA-C-N	5.02	127.00	120.28
1	3h	142	VAL	C-N-CA	5.02	127.00	120.28
1	3q	212	GLU	CB-CG-CD	5.02	121.13	112.60
1	3v	162	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	3H	118	MET	CG-SD-CE	-5.02	89.86	100.90
1	3S	112	GLN	O-C-N	-5.02	116.90	122.07
1	42	89	GLY	O-C-N	5.02	126.79	121.77
1	42	192	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	45	59	VAL	CA-C-O	5.02	126.60	121.23
1	4g	84	HIS	CA-CB-CG	-5.02	108.78	113.80
1	4l	117	TRP	CA-C-O	5.02	125.87	120.55
1	4m	187	GLU	CA-C-O	5.02	125.87	120.70
1	4x	120	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	4D	24	VAL	CA-C-O	-5.02	115.73	120.95
1	4H	208	ALA	O-C-N	-5.02	116.18	122.35
1	4M	152	ASP	CA-CB-CG	-5.02	107.58	112.60
1	4Q	218	CYS	CA-C-N	5.02	128.22	121.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4Q	218	CYS	C-N-CA	5.02	128.22	121.05
1	4R	117	TRP	N-CA-C	5.02	116.75	111.28
1	4Y	99	PRO	CA-C-N	5.02	131.87	122.74
1	4Y	99	PRO	C-N-CA	5.02	131.87	122.74
1	4Z	77	ALA	CA-C-N	5.02	127.42	120.29
1	4Z	77	ALA	C-N-CA	5.02	127.42	120.29
1	5a	160	PRO	CA-N-CD	5.02	119.03	112.00
1	5d	152	ASP	CA-C-O	5.02	124.81	119.34
1	5j	6	LEU	N-CA-CB	5.02	118.05	110.42
1	5n	25	LYS	CB-CA-C	5.02	119.91	110.63
1	5r	132	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	5z	65	ALA	CA-C-N	5.02	127.94	120.31
1	5z	65	ALA	C-N-CA	5.02	127.94	120.31
1	5M	24	VAL	CA-C-O	5.02	126.17	120.85
1	5M	216	THR	CA-C-N	5.02	131.12	121.54
1	5M	216	THR	C-N-CA	5.02	131.12	121.54
1	5W	84	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	61	167	ARG	NE-CZ-NH2	-5.02	114.68	119.20
1	66	119	THR	O-C-N	-5.02	116.28	122.25
1	67	87	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	67	225	GLY	CA-C-N	5.02	128.47	121.24
1	67	225	GLY	C-N-CA	5.02	128.47	121.24
1	6a	86	VAL	N-CA-CB	5.02	119.51	111.23
1	6g	172	LEU	N-CA-C	5.02	117.48	111.71
1	6i	83	LEU	N-CA-C	5.02	116.75	111.28
1	6i	123	PRO	CB-CA-C	5.02	117.93	111.46
1	6p	175	GLU	CA-C-O	5.02	126.87	121.55
1	6q	35	GLU	CA-C-N	5.02	127.33	120.46
1	6q	35	GLU	C-N-CA	5.02	127.33	120.46
1	6u	2	ILE	CB-CG1-CD1	5.02	124.34	113.80
1	6E	132	ARG	CA-C-N	5.02	127.00	120.28
1	6E	132	ARG	C-N-CA	5.02	127.00	120.28
1	6G	23	TRP	N-CA-C	5.02	117.48	111.71
1	6X	224	PRO	N-CA-CB	5.02	107.67	103.25
1	71	29	GLU	N-CA-C	5.02	117.71	111.24
1	7k	19	THR	N-CA-CB	5.02	117.50	110.12
1	7k	62	HIS	CA-CB-CG	5.02	118.82	113.80
1	7p	48	THR	CA-C-N	5.02	125.04	119.32
1	7p	48	THR	C-N-CA	5.02	125.04	119.32
1	7w	6	LEU	N-CA-C	5.02	119.09	112.92
1	7A	226	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	7B	44	SER	O-C-N	-5.02	115.95	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7D	143	ARG	CD-NE-CZ	-5.02	117.38	124.40
1	7H	173	ARG	NE-CZ-NH2	-5.02	114.69	119.20
1	7Q	223	GLY	O-C-N	-5.02	116.75	121.77
1	7X	57	ASN	CA-CB-CG	-5.02	107.58	112.60
1	80	226	HIS	O-C-N	-5.02	117.54	123.41
1	83	101	GLY	CA-C-N	5.02	127.42	120.29
1	83	101	GLY	C-N-CA	5.02	127.42	120.29
1	8a	9	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	8m	87	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	8o	134	ILE	CA-C-N	5.02	126.88	120.56
1	8o	134	ILE	C-N-CA	5.02	126.88	120.56
1	8v	18	ARG	O-C-N	-5.02	116.43	122.15
1	8C	102	SER	CB-CA-C	-5.02	101.35	110.63
1	8E	9	GLN	CA-C-N	5.02	128.79	121.31
1	8E	9	GLN	C-N-CA	5.02	128.79	121.31
1	8F	136	LEU	O-C-N	-5.02	116.35	122.22
1	8N	167	ARG	N-CA-C	5.02	117.13	111.11
1	8O	177	ALA	N-CA-C	5.02	117.50	110.23
1	9p	23	TRP	CB-CA-C	5.02	119.12	110.79
1	9r	110	THR	N-CA-CB	5.02	118.08	110.45
1	9s	33	SER	O-C-N	-5.02	117.99	121.65
1	9s	97	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	9s	143	ARG	N-CA-C	5.02	118.66	112.54
1	9t	77	ALA	O-C-N	5.02	127.44	122.12
1	9M	7	GLN	CB-CG-CD	5.02	121.13	112.60
1	9O	48	THR	CA-C-O	-5.02	115.26	120.88
1	9P	28	GLU	CA-C-N	-5.02	113.88	122.11
1	9P	28	GLU	C-N-CA	-5.02	113.88	122.11
1	Y	127	GLY	CA-C-N	5.02	126.96	120.44
1	Y	127	GLY	C-N-CA	5.02	126.96	120.44
1	9Q	97	ARG	N-CA-C	5.02	116.76	110.24
1	Z	210	THR	CA-CB-OG1	5.02	117.13	109.60
1	a8	52	LEU	O-C-N	-5.02	116.90	122.07
1	aa	210	THR	N-CA-CB	5.02	117.42	110.04
1	ac	144	MET	N-CA-C	5.02	118.86	112.34
1	ae	78	ALA	CA-C-N	5.02	127.00	120.28
1	ae	78	ALA	C-N-CA	5.02	127.00	120.28
1	ap	92	GLU	CA-C-N	5.02	125.25	119.83
1	ap	92	GLU	C-N-CA	5.02	125.25	119.83
1	aA	12	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	aC	46	GLY	CA-C-N	5.02	128.00	120.87
1	aC	46	GLY	C-N-CA	5.02	128.00	120.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aD	35	GLU	N-CA-C	-5.02	107.11	113.18
1	aG	183	ASN	CA-C-O	-5.02	115.10	120.42
1	aJ	31	ALA	N-CA-C	5.02	121.49	110.80
1	aK	183	ASN	CA-C-N	5.02	127.25	120.38
1	aK	183	ASN	C-N-CA	5.02	127.25	120.38
1	aQ	100	ARG	CA-C-N	5.02	125.65	120.03
1	aQ	100	ARG	C-N-CA	5.02	125.65	120.03
1	15	39	MET	O-C-N	-5.02	116.80	122.12
1	15	65	ALA	N-CA-C	-5.02	105.91	112.23
1	aY	191	VAL	N-CA-CB	-5.02	101.69	110.77
1	b4	20	LEU	CA-C-O	5.02	125.74	119.97
1	bd	225	GLY	O-C-N	5.02	128.20	122.38
1	be	62	HIS	O-C-N	5.02	128.97	122.40
1	17	103	ASP	CA-C-O	-5.02	115.55	120.82
1	bv	229	ARG	CA-C-N	5.02	129.08	122.51
1	bv	229	ARG	C-N-CA	5.02	129.08	122.51
1	bw	115	ILE	CB-CG1-CD1	5.02	124.34	113.80
1	bD	12	HIS	ND1-CE1-NE2	5.02	113.42	108.40
1	bS	196	PRO	N-CA-CB	5.02	108.52	103.25
1	c0	56	LEU	CA-C-O	5.02	125.87	120.55
1	c5	23	TRP	N-CA-C	5.02	116.44	111.07
1	c6	219	GLN	N-CA-CB	5.02	119.48	110.80
1	cc	89	GLY	O-C-N	-5.02	116.75	121.77
1	cd	207	PRO	O-C-N	5.02	129.41	122.64
1	ci	76	GLU	N-CA-C	5.02	116.44	111.07
1	ck	72	THR	CB-CA-C	-5.02	102.46	110.79
1	cp	173	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	cs	86	VAL	CA-CB-CG2	-5.02	101.87	110.40
1	cv	41	SER	CA-C-N	5.02	127.00	120.28
1	cv	41	SER	C-N-CA	5.02	127.00	120.28
1	cw	227	LYS	CA-C-O	-5.02	113.21	119.18
1	cy	97	ARG	O-C-N	-5.02	116.48	122.65
1	cB	166	ASP	CA-C-N	5.02	127.00	120.28
1	cB	166	ASP	C-N-CA	5.02	127.00	120.28
1	cL	142	VAL	CA-C-N	5.02	127.42	120.29
1	cL	142	VAL	C-N-CA	5.02	127.42	120.29
1	cS	91	ILE	O-C-N	-5.02	117.31	122.63
1	cZ	92	GLU	O-C-N	-5.02	115.99	120.71
1	1i	191	VAL	O-C-N	-5.02	117.00	121.87
1	d4	153	ILE	N-CA-CB	5.02	116.86	110.13
1	d6	212	GLU	O-C-N	-5.02	115.92	122.59
1	1j	77	ALA	O-C-N	-5.02	116.90	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	de	27	VAL	O-C-N	-5.02	117.00	121.87
1	dg	76	GLU	O-C-N	-5.02	116.90	122.07
1	dl	159	GLU	N-CA-C	5.02	116.71	109.48
1	1k	181	VAL	CA-C-N	5.02	127.00	120.28
1	1k	181	VAL	C-N-CA	5.02	127.00	120.28
1	dv	223	GLY	O-C-N	5.02	126.79	121.77
1	dz	162	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	dF	183	ASN	CB-CG-OD1	5.02	130.83	120.80
1	dI	37	ILE	N-CA-C	5.02	118.37	112.35
1	dP	12	HIS	CB-CG-CD2	5.02	137.72	131.20
1	1n	94	GLY	O-C-N	-5.02	117.29	122.51
1	e2	59	VAL	N-CA-C	-5.02	105.60	110.42
1	eb	82	ARG	CA-C-N	5.02	127.94	120.31
1	eb	82	ARG	C-N-CA	5.02	127.94	120.31
1	ed	117	TRP	CB-CG-CD2	-5.02	119.78	126.80
1	1q	73	ILE	CA-C-N	5.02	127.00	120.28
1	1q	73	ILE	C-N-CA	5.02	127.00	120.28
1	en	159	GLU	CA-C-N	5.02	126.11	119.84
1	en	159	GLU	C-N-CA	5.02	126.11	119.84
1	eo	215	MET	CG-SD-CE	-5.02	89.86	100.90
1	eu	11	VAL	CB-CA-C	-5.02	103.20	110.63
1	ev	26	VAL	CA-C-N	5.02	126.88	120.56
1	ev	26	VAL	C-N-CA	5.02	126.88	120.56
1	eA	86	VAL	CA-CB-CG1	-5.02	101.87	110.40
1	eK	100	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	eK	140	LYS	CA-C-O	-5.02	115.23	120.55
1	eP	78	ALA	O-C-N	-5.02	116.10	122.27
1	eS	40	PHE	O-C-N	-5.02	116.90	122.07
1	eU	185	MET	CB-CA-C	5.02	118.84	110.81
1	f1	54	THR	CA-C-N	5.02	127.00	120.28
1	f1	54	THR	C-N-CA	5.02	127.00	120.28
1	f7	77	ALA	N-CA-CB	-5.02	102.75	110.12
1	ft	79	GLU	CA-C-N	5.02	127.31	120.54
1	ft	79	GLU	C-N-CA	5.02	127.31	120.54
1	fD	104	ILE	N-CA-CB	5.02	118.11	110.58
1	fD	167	ARG	N-CA-C	5.02	117.64	111.82
1	fG	221	VAL	N-CA-C	5.02	116.47	109.80
1	fH	173	ARG	CD-NE-CZ	-5.02	117.38	124.40
1	fQ	205	LEU	O-C-N	-5.02	116.80	122.12
1	fS	186	THR	N-CA-C	5.02	116.83	111.36
1	g0	144	MET	CA-C-O	5.02	126.09	120.82
1	g1	49	PRO	O-C-N	5.02	128.24	122.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	g2	110	THR	N-CA-C	-5.02	101.57	109.50
1	1B	65	ALA	O-C-N	-5.02	116.90	122.07
1	i	25	LYS	CA-C-N	5.02	126.88	120.56
1	i	25	LYS	C-N-CA	5.02	126.88	120.56
1	k	37	ILE	CA-C-O	-5.02	113.22	119.95
1	y	173	ARG	CA-C-O	-5.02	114.58	120.20
1	M	65	ALA	CA-C-O	-5.02	115.55	120.82
1	U	175	GLU	CA-C-N	5.02	129.49	122.36
1	U	175	GLU	C-N-CA	5.02	129.49	122.36
1	8	181	VAL	CA-C-N	5.02	126.96	120.44
1	8	181	VAL	C-N-CA	5.02	126.96	120.44
1	9	174	ALA	N-CA-CB	-5.02	102.73	110.16
1	gu	118	MET	N-CA-C	5.02	116.75	111.28
1	gT	7	GLN	OE1-CD-NE2	5.02	127.62	122.60
1	gV	97	ARG	CD-NE-CZ	5.02	131.42	124.40
1	h6	120	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	ha	131	LYS	O-C-N	-5.02	116.90	122.07
1	hf	104	ILE	N-CA-C	5.02	115.63	110.36
1	hp	137	GLY	CA-C-N	5.02	127.00	120.28
1	hp	137	GLY	C-N-CA	5.02	127.00	120.28
1	hp	153	ILE	N-CA-C	5.02	116.85	109.63
1	hw	103	ASP	N-CA-CB	5.02	117.49	110.12
1	hx	202	LEU	O-C-N	5.02	127.87	122.15
1	hC	175	GLU	CB-CG-CD	-5.02	104.07	112.60
1	hE	185	MET	O-C-N	-5.02	116.10	122.27
1	i0	120	HIS	CB-CG-CD2	-5.02	124.68	131.20
1	io	194	ALA	N-CA-CB	5.02	118.37	110.39
1	iz	199	LYS	CA-C-N	5.02	127.00	120.28
1	iz	199	LYS	C-N-CA	5.02	127.00	120.28
1	iR	213	GLU	CA-C-O	-5.02	115.10	120.42
1	j8	41	SER	CA-C-N	5.02	126.96	120.44
1	j8	41	SER	C-N-CA	5.02	126.96	120.44
1	jf	62	HIS	CG-CD2-NE2	-5.02	102.18	107.20
1	jo	65	ALA	CA-C-O	5.02	125.87	120.55
1	jJ	210	THR	N-CA-CB	-5.02	103.51	110.38
1	jN	44	SER	CA-C-N	5.02	129.24	121.26
1	jN	44	SER	C-N-CA	5.02	129.24	121.26
1	jU	80	TRP	CH2-CZ2-CE2	5.02	124.02	117.50
1	jW	62	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
1	kc	142	VAL	CB-CA-C	5.02	118.30	111.88
1	kc	210	THR	CA-CB-OG1	5.02	117.12	109.60
1	kg	119	THR	OG1-CB-CG2	-5.02	99.27	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	21	191	VAL	CA-C-N	5.02	127.41	120.29
1	21	191	VAL	C-N-CA	5.02	127.41	120.29
1	kl	98	GLU	CA-C-O	-5.02	114.79	120.46
1	22	133	TRP	N-CA-C	5.02	117.40	111.33
1	l2	68	MET	O-C-N	-5.02	116.80	122.12
1	le	48	THR	CA-CB-CG2	5.02	119.03	110.50
1	28	80	TRP	N-CA-CB	-5.02	102.75	110.12
1	lK	179	GLN	CA-C-N	5.02	127.00	120.28
1	lK	179	GLN	C-N-CA	5.02	127.00	120.28
1	2d	10	MET	N-CA-C	5.02	116.37	109.15
1	2z	165	VAL	CA-CB-CG1	5.02	118.93	110.40
1	2S	19	THR	N-CA-CB	5.02	117.28	110.01
1	3d	129	ILE	CA-C-N	5.02	127.00	120.28
1	3d	129	ILE	C-N-CA	5.02	127.00	120.28
1	3y	18	ARG	N-CA-C	-5.02	105.91	112.23
1	3D	10	MET	CA-C-N	5.02	130.12	122.25
1	3D	10	MET	C-N-CA	5.02	130.12	122.25
1	3S	227	LYS	O-C-N	-5.02	117.07	122.79
1	3Y	161	PHE	CA-C-N	5.02	127.94	120.31
1	3Y	161	PHE	C-N-CA	5.02	127.94	120.31
1	43	4	GLN	CB-CA-C	5.02	118.05	109.72
1	47	68	MET	O-C-N	-5.02	116.35	122.22
1	4f	106	GLY	CA-C-N	5.02	127.31	120.54
1	4f	106	GLY	C-N-CA	5.02	127.31	120.54
1	4U	217	ALA	N-CA-CB	5.02	117.53	110.36
1	5c	41	SER	O-C-N	-5.02	116.43	122.15
1	5c	56	LEU	CA-C-O	5.02	125.87	120.55
1	5d	85	PRO	N-CA-C	5.02	119.09	111.11
1	5r	198	CYS	CA-C-N	5.02	127.41	120.29
1	5r	198	CYS	C-N-CA	5.02	127.41	120.29
1	5y	6	LEU	N-CA-C	5.02	118.66	112.54
1	5M	179	GLN	CB-CG-CD	5.02	121.13	112.60
1	5O	69	LEU	O-C-N	-5.02	116.80	122.12
1	6n	218	CYS	N-CA-C	5.02	117.70	110.28
1	6u	95	GLN	CA-C-O	-5.02	114.94	120.36
1	6E	9	GLN	N-CA-C	5.02	117.50	110.23
1	6H	63	GLN	OE1-CD-NE2	-5.02	117.58	122.60
1	6J	189	LEU	N-CA-C	5.02	117.48	111.71
1	6W	226	HIS	CA-C-N	5.02	130.26	122.49
1	6W	226	HIS	C-N-CA	5.02	130.26	122.49
1	73	19	THR	N-CA-C	-5.02	105.89	111.36
1	7a	130	TYR	CA-CB-CG	5.02	122.93	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7V	162	ARG	CG-CD-NE	-5.02	100.96	112.00
1	81	180	GLU	N-CA-CB	5.02	117.49	110.12
1	89	20	LEU	N-CA-C	-5.02	105.70	111.07
1	8k	136	LEU	O-C-N	-5.02	116.90	122.07
1	8K	223	GLY	CA-C-N	5.02	126.11	119.84
1	8K	223	GLY	C-N-CA	5.02	126.11	119.84
1	92	62	HIS	N-CA-CB	5.02	118.97	110.49
1	9m	81	ASP	CA-C-O	5.02	125.50	119.43
1	9H	205	LEU	N-CA-C	5.02	116.75	111.28
1	9T	104	ILE	O-C-N	-5.02	116.34	122.06
1	Z	87	HIS	O-C-N	-5.02	116.41	122.48
1	aj	161	PHE	CA-C-N	5.02	127.00	120.28
1	aj	161	PHE	C-N-CA	5.02	127.00	120.28
1	ap	134	ILE	N-CA-CB	5.02	116.42	110.55
1	az	131	LYS	CA-C-N	5.02	127.50	120.28
1	az	131	LYS	C-N-CA	5.02	127.50	120.28
1	13	215	MET	CG-SD-CE	-5.02	89.87	100.90
1	aE	179	GLN	N-CA-C	5.02	117.40	111.33
1	aR	82	ARG	NE-CZ-NH2	-5.02	114.69	119.20
1	b0	74	ASN	OD1-CG-ND2	5.02	127.62	122.60
1	b5	58	THR	N-CA-CB	5.02	118.27	110.44
1	bd	14	ALA	CA-C-N	5.02	127.88	120.91
1	bd	14	ALA	C-N-CA	5.02	127.88	120.91
1	bd	152	ASP	CA-CB-CG	-5.02	107.58	112.60
1	bn	5	ASN	CA-C-N	5.02	126.96	120.44
1	bn	5	ASN	C-N-CA	5.02	126.96	120.44
1	bF	64	ALA	N-CA-CB	5.02	117.58	110.16
1	bP	23	TRP	CA-C-N	5.02	126.88	120.56
1	bP	23	TRP	C-N-CA	5.02	126.88	120.56
1	bV	144	MET	CA-C-N	5.02	127.00	120.28
1	bV	144	MET	C-N-CA	5.02	127.00	120.28
1	c0	78	ALA	CB-CA-C	-5.02	102.46	110.79
1	c8	139	ASN	N-CA-C	5.02	117.40	111.33
1	cd	184	TRP	CB-CA-C	5.02	119.12	110.79
1	cg	133	TRP	CA-C-N	5.02	127.07	120.60
1	cg	133	TRP	C-N-CA	5.02	127.07	120.60
1	cH	189	LEU	CA-C-O	-5.02	115.21	120.63
1	cN	51	ASP	CA-CB-CG	5.02	117.62	112.60
1	cR	85	PRO	CA-C-N	5.02	127.41	120.49
1	cR	85	PRO	C-N-CA	5.02	127.41	120.49
1	d3	173	ARG	NH1-CZ-NH2	-5.02	112.78	119.30
1	dt	85	PRO	N-CA-CB	5.02	108.52	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dy	189	LEU	CA-C-O	-5.02	115.23	120.55
1	dG	159	GLU	CA-C-N	5.02	126.11	119.84
1	dG	159	GLU	C-N-CA	5.02	126.11	119.84
1	dQ	173	ARG	NE-CZ-NH2	-5.02	114.69	119.20
1	1p	53	ASN	CA-CB-CG	5.02	117.62	112.60
1	el	195	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	ep	124	ILE	CA-C-N	5.02	126.11	119.84
1	ep	124	ILE	C-N-CA	5.02	126.11	119.84
1	eE	35	GLU	CA-C-N	5.02	128.40	120.47
1	eE	35	GLU	C-N-CA	5.02	128.40	120.47
1	eF	173	ARG	N-CA-CB	-5.02	102.74	110.01
1	eH	140	LYS	N-CA-C	5.02	116.75	111.28
1	eQ	74	ASN	CB-CG-ND2	5.02	123.92	116.40
1	eU	167	ARG	CA-C-N	5.02	127.00	120.28
1	eU	167	ARG	C-N-CA	5.02	127.00	120.28
1	fu	84	HIS	CG-CD2-NE2	5.02	112.22	107.20
1	fO	34	PRO	CB-CA-C	-5.02	104.36	111.68
1	fX	45	GLU	N-CA-C	5.02	117.44	109.96
1	fY	207	PRO	N-CA-C	5.02	118.93	111.41
1	o	171	THR	CA-C-O	5.02	125.87	120.55
1	o	183	ASN	OD1-CG-ND2	-5.02	117.58	122.60
1	q	20	LEU	O-C-N	-5.02	116.80	122.12
1	2	40	PHE	N-CA-C	5.02	116.44	111.07
1	z	132	ARG	NE-CZ-NH1	5.02	126.52	121.50
1	M	169	TYR	CA-C-O	-5.02	114.20	119.97
1	W	207	PRO	CA-C-N	5.02	130.82	122.54
1	W	207	PRO	C-N-CA	5.02	130.82	122.54
1	6	79	GLU	CA-C-O	-5.02	115.23	120.55
1	g8	28	GLU	CB-CG-CD	-5.01	104.08	112.60
1	gd	62	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	gg	97	ARG	NH1-CZ-NH2	5.01	125.82	119.30
1	gu	62	HIS	CB-CA-C	-5.01	104.61	111.73
1	gw	95	GLN	N-CA-C	-5.01	101.75	109.52
1	gB	156	GLY	CA-C-N	5.01	126.11	119.84
1	gB	156	GLY	C-N-CA	5.01	126.11	119.84
1	gE	83	LEU	CA-C-N	5.01	127.47	120.65
1	gE	83	LEU	C-N-CA	5.01	127.47	120.65
1	gM	201	ILE	N-CA-C	5.01	115.73	110.62
1	gN	87	HIS	CA-CB-CG	-5.01	108.78	113.80
1	gU	110	THR	N-CA-CB	5.01	117.25	110.38
1	1G	14	ALA	CA-C-N	5.01	127.30	120.63
1	1G	14	ALA	C-N-CA	5.01	127.30	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	hf	100	ARG	CD-NE-CZ	5.01	131.42	124.40
1	hs	49	PRO	O-C-N	-5.01	115.96	122.23
1	hC	102	SER	O-C-N	-5.01	116.10	122.27
1	hC	197	ASP	N-CA-C	5.01	116.75	111.28
1	hK	39	MET	O-C-N	-5.01	116.10	122.27
1	hK	143	ARG	N-CA-CB	5.01	117.28	110.01
1	hL	223	GLY	CA-C-O	5.01	128.69	121.52
1	hP	189	LEU	N-CA-CB	-5.01	101.71	110.44
1	hU	90	PRO	CA-C-O	-5.01	115.86	121.23
1	hU	170	LYS	N-CA-C	5.01	116.75	111.28
1	hU	226	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	hX	14	ALA	N-CA-C	5.01	117.70	110.28
1	hY	103	ASP	CB-CG-OD1	5.01	129.93	118.40
1	ia	101	GLY	CA-C-N	5.01	127.50	120.28
1	ia	101	GLY	C-N-CA	5.01	127.50	120.28
1	if	167	ARG	N-CA-CB	5.01	117.49	110.12
1	iq	84	HIS	O-C-N	-5.01	117.17	121.23
1	iu	196	PRO	O-C-N	-5.01	116.76	122.18
1	iF	55	MET	N-CA-C	5.01	117.48	111.71
1	iG	41	SER	CA-C-N	5.01	127.93	120.31
1	iG	41	SER	C-N-CA	5.01	127.93	120.31
1	iH	128	GLU	N-CA-C	5.01	116.75	111.28
1	iI	40	PHE	CA-CB-CG	-5.01	108.79	113.80
1	iN	200	THR	O-C-N	-5.01	116.88	122.09
1	iR	107	THR	O-C-N	-5.01	115.62	122.19
1	iS	25	LYS	CA-C-N	5.01	126.88	120.56
1	iS	25	LYS	C-N-CA	5.01	126.88	120.56
1	iX	102	SER	N-CA-C	5.01	116.83	111.36
1	j1	213	GLU	CB-CG-CD	5.01	121.12	112.60
1	j5	160	PRO	N-CA-C	5.01	122.80	112.47
1	jb	33	SER	O-C-N	-5.01	118.50	121.71
1	jd	97	ARG	O-C-N	-5.01	116.64	122.81
1	jj	92	GLU	O-C-N	-5.01	115.94	121.66
1	jk	67	GLN	OE1-CD-NE2	-5.01	117.58	122.60
1	jm	151	LEU	CB-CA-C	-5.01	99.74	110.32
1	jt	112	GLN	O-C-N	-5.01	116.81	122.12
1	jz	152	ASP	O-C-N	-5.01	116.07	122.34
1	jA	44	SER	N-CA-C	5.01	119.04	113.02
1	jJ	33	SER	CA-C-N	5.01	126.11	119.84
1	jJ	33	SER	C-N-CA	5.01	126.11	119.84
1	jJ	50	GLN	CA-C-N	5.01	127.26	120.44
1	jJ	50	GLN	C-N-CA	5.01	127.26	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k0	182	LYS	CA-C-N	5.01	127.25	120.38
1	k0	182	LYS	C-N-CA	5.01	127.25	120.38
1	k1	167	ARG	CD-NE-CZ	5.01	131.42	124.40
1	k6	206	GLY	CA-C-N	5.01	125.08	119.87
1	k6	206	GLY	C-N-CA	5.01	125.08	119.87
1	kc	36	VAL	CG1-CB-CG2	-5.01	99.77	110.80
1	kh	68	MET	CA-C-N	5.01	127.00	120.28
1	kh	68	MET	C-N-CA	5.01	127.00	120.28
1	kj	6	LEU	N-CA-C	-5.01	101.12	108.79
1	21	40	PHE	N-CA-CB	5.01	117.49	110.12
1	kA	162	ARG	NH1-CZ-NH2	-5.01	112.78	119.30
1	kN	124	ILE	CA-CB-CG2	-5.01	101.97	110.50
1	24	12	HIS	CE1-NE2-CD2	-5.01	103.98	109.00
1	24	179	GLN	CA-C-N	5.01	128.34	120.82
1	24	179	GLN	C-N-CA	5.01	128.34	120.82
1	kX	177	ALA	O-C-N	-5.01	115.92	122.59
1	kX	219	GLN	CA-C-N	5.01	129.85	123.08
1	kX	219	GLN	C-N-CA	5.01	129.85	123.08
1	l1	45	GLU	O-C-N	-5.01	116.64	122.96
1	l4	100	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	lc	141	ILE	CA-C-N	5.01	127.07	120.60
1	lc	141	ILE	C-N-CA	5.01	127.07	120.60
1	lc	152	ASP	CA-CB-CG	5.01	117.61	112.60
1	lm	162	ARG	N-CA-C	5.01	117.40	111.33
1	lt	63	GLN	CA-C-N	5.01	127.00	120.28
1	lt	63	GLN	C-N-CA	5.01	127.00	120.28
1	lJ	130	TYR	CA-C-N	5.01	127.41	120.29
1	lJ	130	TYR	C-N-CA	5.01	127.41	120.29
1	2f	87	HIS	CA-CB-CG	5.01	118.81	113.80
1	2h	120	HIS	CB-CG-CD2	5.01	137.72	131.20
1	2h	205	LEU	CA-C-N	5.01	129.74	121.87
1	2h	205	LEU	C-N-CA	5.01	129.74	121.87
1	2l	87	HIS	ND1-CE1-NE2	5.01	113.42	108.40
1	2l	109	SER	CA-CB-OG	5.01	121.13	111.10
1	2n	119	THR	CA-CB-CG2	5.01	119.02	110.50
1	2B	80	TRP	CD2-CE2-CZ2	-5.01	117.39	122.40
1	2F	107	THR	OG1-CB-CG2	-5.01	99.27	109.30
1	2I	212	GLU	N-CA-C	5.01	119.64	111.37
1	2K	199	LYS	CB-CG-CD	5.01	122.83	111.30
1	2M	61	GLY	O-C-N	-5.01	115.59	122.61
1	2M	83	LEU	CA-C-O	5.01	125.74	119.97
1	2N	84	HIS	CB-CG-ND1	-5.01	115.18	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2W	148	THR	N-CA-C	5.01	116.58	110.41
1	2Y	211	LEU	CA-C-N	5.01	128.34	120.82
1	2Y	211	LEU	C-N-CA	5.01	128.34	120.82
1	3h	25	LYS	N-CA-C	5.01	117.64	111.82
1	3j	175	GLU	N-CA-C	-5.01	107.00	113.02
1	3D	188	THR	OG1-CB-CG2	-5.01	99.27	109.30
1	3F	187	GLU	N-CA-C	-5.01	106.09	113.61
1	3P	75	GLU	CA-CB-CG	-5.01	104.07	114.10
1	3P	228	ALA	CA-C-N	5.01	130.23	122.26
1	3P	228	ALA	C-N-CA	5.01	130.23	122.26
1	3S	29	GLU	CA-C-O	5.01	126.27	120.90
1	3V	48	THR	CA-CB-OG1	5.01	117.12	109.60
1	3Y	67	GLN	CA-C-O	5.01	125.87	120.55
1	41	113	GLU	N-CA-C	5.01	116.83	111.36
1	4j	12	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	4k	62	HIS	CE1-NE2-CD2	-5.01	103.98	109.00
1	4q	119	THR	N-CA-C	5.01	118.44	112.72
1	4s	62	HIS	N-CA-C	5.01	121.48	110.80
1	4v	185	MET	N-CA-CB	5.01	117.41	109.94
1	4A	213	GLU	CA-C-N	5.01	127.00	120.28
1	4A	213	GLU	C-N-CA	5.01	127.00	120.28
1	4B	62	HIS	CG-CD2-NE2	-5.01	102.19	107.20
1	4D	76	GLU	N-CA-C	5.01	117.64	111.82
1	4W	203	LYS	CG-CD-CE	5.01	122.83	111.30
1	4Y	58	THR	O-C-N	5.01	127.30	122.09
1	5d	37	ILE	CA-C-N	5.01	124.51	119.19
1	5d	37	ILE	C-N-CA	5.01	124.51	119.19
1	5f	66	MET	O-C-N	-5.01	116.81	122.12
1	5F	186	THR	CB-CA-C	-5.01	103.01	110.88
1	5S	163	ASP	CA-C-O	-5.01	115.55	120.82
1	5W	9	GLN	CA-C-N	5.01	131.12	121.54
1	5W	9	GLN	C-N-CA	5.01	131.12	121.54
1	5Z	226	HIS	CA-C-N	5.01	129.38	121.56
1	5Z	226	HIS	C-N-CA	5.01	129.38	121.56
1	60	3	VAL	N-CA-C	5.01	115.57	109.30
1	6e	84	HIS	CB-CA-C	-5.01	105.20	110.17
1	6i	7	GLN	N-CA-CB	5.01	118.02	110.30
1	6o	229	ARG	N-CA-CB	5.01	117.53	110.36
1	6H	29	GLU	N-CA-CB	-5.01	104.36	110.98
1	6I	127	GLY	CA-C-N	5.01	126.96	120.44
1	6I	127	GLY	C-N-CA	5.01	126.96	120.44
1	6R	132	ARG	NE-CZ-NH1	-5.01	116.48	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	6W	50	GLN	CB-CG-CD	5.01	121.12	112.60
1	75	83	LEU	N-CA-C	5.01	116.83	111.36
1	75	171	THR	N-CA-C	5.01	116.75	111.28
1	7b	90	PRO	CB-CA-C	5.01	117.93	111.56
1	7c	122	PRO	CA-C-N	5.01	125.01	119.89
1	7c	122	PRO	C-N-CA	5.01	125.01	119.89
1	7f	143	ARG	CA-CB-CG	5.01	124.13	114.10
1	7o	52	LEU	O-C-N	-5.01	116.81	122.03
1	7s	40	PHE	CA-C-N	5.01	126.96	120.44
1	7s	40	PHE	C-N-CA	5.01	126.96	120.44
1	7B	9	GLN	CB-CA-C	-5.01	110.41	117.23
1	7D	143	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	7I	62	HIS	CG-CD2-NE2	-5.01	102.19	107.20
1	7L	139	ASN	O-C-N	-5.01	116.80	122.12
1	7M	45	GLU	CA-C-N	5.01	130.14	120.66
1	7M	45	GLU	C-N-CA	5.01	130.14	120.66
1	7N	196	PRO	N-CD-CG	5.01	110.72	103.20
1	7Q	21	ASN	CB-CA-C	5.01	119.11	110.79
1	7Q	109	SER	O-C-N	-5.01	117.33	122.94
1	7V	176	GLN	N-CA-C	5.01	116.78	108.20
1	7W	39	MET	CA-C-O	5.01	125.73	120.42
1	80	182	LYS	CA-C-N	5.01	127.26	120.44
1	80	182	LYS	C-N-CA	5.01	127.26	120.44
1	85	105	ALA	O-C-N	-5.01	115.11	122.43
1	87	132	ARG	CD-NE-CZ	5.01	131.42	124.40
1	88	176	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	8c	51	ASP	CA-C-N	5.01	127.41	120.29
1	8c	51	ASP	C-N-CA	5.01	127.41	120.29
1	8g	144	MET	CA-C-O	5.01	125.53	119.31
1	8j	92	GLU	CB-CA-C	5.01	117.78	109.56
1	8o	195	ASN	CB-CA-C	5.01	118.54	109.61
1	8u	132	ARG	CA-C-O	5.01	126.08	120.82
1	8v	183	ASN	O-C-N	-5.01	116.43	122.15
1	8w	68	MET	CA-C-O	5.01	126.08	120.82
1	8z	80	TRP	CA-C-O	5.01	125.55	119.38
1	8A	172	LEU	CA-C-O	5.01	126.08	120.82
1	8S	209	ALA	CA-C-O	-5.01	116.17	120.88
1	8Y	80	TRP	CB-CA-C	5.01	119.21	110.68
1	8Y	85	PRO	CA-CB-CG	5.01	114.03	104.50
1	94	188	THR	N-CA-CB	5.01	118.96	110.49
1	9g	136	LEU	N-CA-C	5.01	116.75	111.28
1	9l	129	ILE	O-C-N	-5.01	116.67	121.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9m	62	HIS	N-CA-C	5.01	118.64	111.92
1	9p	155	GLN	O-C-N	-5.01	116.48	122.65
1	9q	4	GLN	N-CA-C	5.01	117.57	110.50
1	9q	55	MET	CG-SD-CE	-5.01	89.87	100.90
1	9t	6	LEU	CA-C-O	-5.01	116.05	121.36
1	9y	81	ASP	CA-CB-CG	5.01	117.61	112.60
1	9A	84	HIS	CA-C-O	5.01	124.20	119.59
1	9B	58	THR	N-CA-CB	5.01	118.00	110.53
1	9H	68	MET	N-CA-C	5.01	116.75	111.28
1	9U	120	HIS	CA-C-O	-5.01	116.05	121.87
1	9Z	184	TRP	CA-C-N	5.01	127.00	120.28
1	9Z	184	TRP	C-N-CA	5.01	127.00	120.28
1	a1	48	THR	CA-CB-OG1	5.01	117.12	109.60
1	ab	34	PRO	N-CA-CB	-5.01	97.98	103.25
1	ab	197	ASP	N-CA-CB	-5.01	102.75	110.12
1	ag	183	ASN	CB-CG-ND2	5.01	123.92	116.40
1	aj	57	ASN	CA-CB-CG	-5.01	107.59	112.60
1	ak	120	HIS	N-CA-CB	5.01	117.41	110.04
1	av	131	LYS	CA-C-N	5.01	127.41	120.29
1	av	131	LYS	C-N-CA	5.01	127.41	120.29
1	aL	69	LEU	CA-C-N	5.01	127.00	120.28
1	aL	69	LEU	C-N-CA	5.01	127.00	120.28
1	aM	223	GLY	CA-C-N	5.01	126.11	119.84
1	aM	223	GLY	C-N-CA	5.01	126.11	119.84
1	aR	212	GLU	CA-C-N	5.01	127.00	120.28
1	aR	212	GLU	C-N-CA	5.01	127.00	120.28
1	aW	95	GLN	OE1-CD-NE2	-5.01	117.58	122.60
1	aY	83	LEU	CA-C-O	5.01	126.08	120.82
1	b2	65	ALA	CA-C-O	5.01	125.87	120.55
1	ba	97	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	ba	225	GLY	N-CA-C	5.01	120.15	111.98
1	bg	5	ASN	OD1-CG-ND2	-5.01	117.58	122.60
1	bl	133	TRP	CD2-CE3-CZ3	5.01	125.12	118.60
1	bm	11	VAL	N-CA-C	5.01	115.34	108.12
1	br	189	LEU	CA-C-O	-5.01	115.11	120.42
1	bC	66	MET	N-CA-C	5.01	116.44	111.07
1	bN	130	TYR	CB-CA-C	5.01	120.30	110.67
1	bW	185	MET	CB-CG-SD	5.01	127.75	112.70
1	bY	145	TYR	O-C-N	-5.01	115.92	122.59
1	c4	59	VAL	CA-C-O	5.01	127.01	120.69
1	c4	139	ASN	O-C-N	-5.01	116.43	122.15
1	cc	231	LEU	N-CA-CB	-5.01	101.97	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ce	57	ASN	CA-CB-CG	-5.01	107.58	112.60
1	co	184	TRP	CA-C-O	5.01	125.74	119.97
1	cr	166	ASP	CA-C-N	5.01	127.00	120.28
1	cr	166	ASP	C-N-CA	5.01	127.00	120.28
1	cv	34	PRO	N-CA-C	-5.01	107.86	114.03
1	cx	120	HIS	CG-CD2-NE2	5.01	112.22	107.20
1	cy	150	ILE	CA-C-O	5.01	125.80	119.48
1	cQ	110	THR	O-C-N	-5.01	117.29	122.96
1	cV	2	ILE	CB-CG1-CD1	5.01	124.33	113.80
1	cV	147	PRO	N-CA-C	-5.01	107.66	114.98
1	cW	123	PRO	O-C-N	-5.01	117.02	123.14
1	d3	106	GLY	CA-C-N	5.01	127.26	120.44
1	d3	106	GLY	C-N-CA	5.01	127.26	120.44
1	d8	82	ARG	NH1-CZ-NH2	-5.01	112.78	119.30
1	dn	26	VAL	N-CA-C	5.01	115.78	110.72
1	1k	63	GLN	N-CA-C	5.01	119.11	112.89
1	dy	31	ALA	N-CA-C	5.01	115.93	108.31
1	dy	141	ILE	CA-C-O	5.01	126.17	120.85
1	dC	112	GLN	N-CA-C	-5.01	105.81	111.28
1	dI	150	ILE	N-CA-CB	-5.01	104.45	112.07
1	dL	141	ILE	O-C-N	-5.01	116.98	121.89
1	ee	11	VAL	N-CA-CB	-5.01	103.22	111.44
1	eg	41	SER	N-CA-C	5.01	117.40	111.33
1	eh	127	GLY	CA-C-N	5.01	127.00	120.28
1	eh	127	GLY	C-N-CA	5.01	127.00	120.28
1	ep	211	LEU	CA-C-N	5.01	127.31	120.54
1	ep	211	LEU	C-N-CA	5.01	127.31	120.54
1	eB	56	LEU	CA-C-O	5.01	125.44	119.67
1	1s	75	GLU	N-CA-C	5.01	117.64	111.82
1	1s	179	GLN	CA-C-O	-5.01	115.21	120.63
1	eQ	128	GLU	N-CA-C	5.01	116.75	111.28
1	eU	119	THR	N-CA-C	-5.01	106.75	112.92
1	eY	132	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	f6	149	SER	CA-C-N	5.01	128.59	120.82
1	f6	149	SER	C-N-CA	5.01	128.59	120.82
1	f9	133	TRP	N-CA-C	5.01	116.44	111.07
1	f9	175	GLU	CA-C-N	5.01	129.31	122.34
1	f9	175	GLU	C-N-CA	5.01	129.31	122.34
1	fc	152	ASP	CA-CB-CG	5.01	117.61	112.60
1	fp	11	VAL	CA-CB-CG1	5.01	118.93	110.40
1	fw	140	LYS	N-CA-CB	5.01	117.28	110.01
1	fH	115	ILE	N-CA-CB	5.01	117.36	110.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	fR	87	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	fV	97	ARG	O-C-N	-5.01	116.48	122.65
1	fW	68	MET	CA-C-N	5.01	127.31	120.54
1	fW	68	MET	C-N-CA	5.01	127.31	120.54
1	g3	97	ARG	O-C-N	-5.01	117.09	123.01
1	1B	84	HIS	ND1-CE1-NE2	5.01	113.42	108.40
1	0	226	HIS	CE1-NE2-CD2	-5.01	103.98	109.00
1	e	34	PRO	N-CD-CG	-5.01	95.68	103.20
1	e	119	THR	CA-C-N	5.01	130.49	121.06
1	e	119	THR	C-N-CA	5.01	130.49	121.06
1	j	4	GLN	OE1-CD-NE2	-5.01	117.58	122.60
1	n	67	GLN	O-C-N	-5.01	116.67	122.09
1	n	84	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	p	192	GLN	O-C-N	-5.01	116.10	122.27
1	r	7	GLN	CA-C-N	-5.01	115.54	122.86
1	r	7	GLN	C-N-CA	-5.01	115.54	122.86
1	r	71	GLU	CA-C-O	5.01	125.53	119.31
1	s	2	ILE	O-C-N	-5.01	116.42	122.59
1	G	84	HIS	CB-CG-CD2	-5.01	124.68	131.20
1	U	5	ASN	CA-CB-CG	5.01	117.61	112.60
1	5	114	GLN	CA-C-O	5.01	125.74	119.97
1	9	162	ARG	CA-C-O	5.01	125.77	120.10
1	ga	59	VAL	CA-C-O	-5.01	116.43	121.59
1	gh	167	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	h7	84	HIS	CA-CB-CG	-5.01	108.79	113.80
1	hd	163	ASP	CB-CA-C	-5.01	99.51	109.99
1	hq	144	MET	CA-CB-CG	5.01	124.13	114.10
1	ht	36	VAL	O-C-N	5.01	128.69	121.82
1	hC	211	LEU	N-CA-C	5.01	117.47	111.71
1	i5	3	VAL	CB-CA-C	5.01	118.43	110.81
1	ic	22	ALA	N-CA-C	5.01	116.75	111.28
1	ic	167	ARG	CA-C-O	5.01	125.73	119.97
1	iB	149	SER	O-C-N	-5.01	117.41	123.27
1	iW	65	ALA	N-CA-C	5.01	117.13	111.11
1	jy	228	ALA	CA-C-N	5.01	128.22	121.05
1	jy	228	ALA	C-N-CA	5.01	128.22	121.05
1	jD	100	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	jU	140	LYS	CA-C-O	5.01	125.73	120.42
1	jY	102	SER	N-CA-C	5.01	116.74	111.28
1	jY	105	ALA	CA-C-O	5.01	125.15	119.18
1	k0	147	PRO	N-CA-C	-5.01	107.00	113.57
1	kl	197	ASP	CA-CB-CG	5.01	117.61	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kp	10	MET	N-CA-CB	5.01	120.03	111.66
1	kx	18	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	24	228	ALA	CA-C-O	-5.01	115.24	120.55
1	lb	209	ALA	CA-C-O	-5.01	116.06	121.87
1	lg	128	GLU	CA-C-N	5.01	126.88	120.56
1	lg	128	GLU	C-N-CA	5.01	126.88	120.56
1	lg	154	ARG	O-C-N	-5.01	116.07	122.94
1	lH	128	GLU	N-CA-CB	-5.01	102.74	110.16
1	lL	25	LYS	CA-C-N	5.01	127.54	120.42
1	lL	25	LYS	C-N-CA	5.01	127.54	120.42
1	lN	167	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	2f	18	ARG	CB-CA-C	5.01	119.11	110.79
1	2s	7	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	2s	141	ILE	CA-C-O	5.01	127.05	120.78
1	2v	79	GLU	CA-C-O	5.01	125.73	119.97
1	2I	64	ALA	CA-C-O	5.01	126.08	120.82
1	2I	160	PRO	N-CA-C	5.01	119.08	111.11
1	32	82	ARG	CA-C-N	5.01	126.96	120.44
1	32	82	ARG	C-N-CA	5.01	126.96	120.44
1	3M	119	THR	N-CA-C	-5.01	107.01	113.23
1	3N	26	VAL	CA-CB-CG1	5.01	118.92	110.40
1	40	58	THR	CA-CB-CG2	5.01	119.02	110.50
1	45	190	LEU	N-CA-C	5.01	119.09	112.92
1	46	98	GLU	CA-C-O	-5.01	115.60	119.46
1	46	143	ARG	O-C-N	-5.01	116.91	122.07
1	49	169	TYR	CA-CB-CG	-5.01	104.88	113.90
1	4i	129	ILE	CA-C-N	5.01	127.00	120.28
1	4i	129	ILE	C-N-CA	5.01	127.00	120.28
1	4z	198	CYS	CA-C-O	5.01	125.73	120.42
1	52	51	ASP	CA-C-O	-5.01	115.56	120.82
1	53	26	VAL	N-CA-CB	-5.01	104.95	110.51
1	5x	119	THR	CA-CB-OG1	5.01	117.12	109.60
1	5z	24	VAL	CA-CB-CG1	5.01	118.92	110.40
1	5A	219	GLN	N-CA-C	5.01	118.36	111.54
1	5I	198	CYS	N-CA-C	5.01	116.74	111.28
1	5U	89	GLY	CA-C-O	-5.01	114.35	121.52
1	73	125	PRO	O-C-N	-5.01	115.44	122.11
1	7l	120	HIS	CB-CA-C	-5.01	101.40	109.72
1	7C	181	VAL	CA-C-O	-5.01	115.86	121.17
1	7E	114	GLN	N-CA-C	5.01	117.13	111.11
1	7H	152	ASP	O-C-N	-5.01	116.32	122.34
1	7J	131	LYS	CA-C-N	5.01	127.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7J	131	LYS	C-N-CA	5.01	127.00	120.28
1	7N	180	GLU	O-C-N	-5.01	116.81	122.12
1	82	125	PRO	N-CA-CB	5.01	106.04	102.28
1	84	22	ALA	CA-C-N	5.01	127.00	120.28
1	84	22	ALA	C-N-CA	5.01	127.00	120.28
1	85	3	VAL	CA-C-N	5.01	127.97	120.90
1	85	3	VAL	C-N-CA	5.01	127.97	120.90
1	8j	158	LYS	CA-C-O	-5.01	113.48	119.35
1	8w	77	ALA	CA-C-N	5.01	127.26	120.44
1	8w	77	ALA	C-N-CA	5.01	127.26	120.44
1	8I	146	SER	CB-CA-C	-5.01	103.82	110.34
1	98	17	PRO	CA-C-O	-5.01	111.97	119.34
1	9a	115	ILE	CA-CB-CG2	5.01	119.02	110.50
1	9e	160	PRO	N-CA-CB	5.01	106.10	102.79
1	9m	51	ASP	CA-CB-CG	-5.01	107.59	112.60
1	9w	1	PRO	CB-CA-C	5.01	119.62	110.10
1	9B	18	ARG	CB-CA-C	-5.01	101.05	110.67
1	9C	9	GLN	N-CA-CB	5.01	117.91	110.29
1	9D	143	ARG	CA-C-N	5.01	127.70	120.38
1	9D	143	ARG	C-N-CA	5.01	127.70	120.38
1	9K	109	SER	CA-C-N	5.01	129.71	121.39
1	9K	109	SER	C-N-CA	5.01	129.71	121.39
1	Y	85	PRO	CA-C-O	-5.01	115.62	121.34
1	ah	184	TRP	CA-C-N	5.01	127.41	120.29
1	ah	184	TRP	C-N-CA	5.01	127.41	120.29
1	ai	58	THR	CA-C-N	5.01	128.70	121.18
1	ai	58	THR	C-N-CA	5.01	128.70	121.18
1	ak	115	ILE	N-CA-C	-5.01	104.78	111.05
1	an	74	ASN	CA-C-N	5.01	126.96	120.44
1	an	74	ASN	C-N-CA	5.01	126.96	120.44
1	13	143	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	aF	50	GLN	OE1-CD-NE2	5.01	127.61	122.60
1	15	143	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	b5	161	PHE	N-CA-C	5.01	116.74	111.28
1	b6	136	LEU	N-CA-CB	-5.01	102.75	110.12
1	bn	168	PHE	CA-C-N	5.01	127.00	120.28
1	bn	168	PHE	C-N-CA	5.01	127.00	120.28
1	bp	182	LYS	N-CA-C	5.01	117.13	111.11
1	bB	108	THR	CA-C-O	5.01	125.50	119.59
1	bP	41	SER	N-CA-CB	5.01	117.28	110.01
1	bP	63	GLN	CB-CG-CD	5.01	121.12	112.60
1	bQ	24	VAL	N-CA-C	5.01	115.73	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bV	92	GLU	CB-CA-C	-5.01	104.87	113.04
1	cj	57	ASN	CA-C-N	5.01	129.09	120.72
1	cj	57	ASN	C-N-CA	5.01	129.09	120.72
1	cu	29	GLU	CB-CA-C	-5.01	102.98	110.90
1	do	149	SER	CA-C-N	5.01	127.33	120.46
1	do	149	SER	C-N-CA	5.01	127.33	120.46
1	dC	40	PHE	CA-CB-CG	5.01	118.81	113.80
1	dF	177	ALA	N-CA-C	5.01	117.32	110.55
1	dZ	15	ILE	O-C-N	-5.01	116.30	122.57
1	e0	189	LEU	N-CA-C	5.01	117.40	111.33
1	e9	207	PRO	N-CA-CB	-5.01	96.91	102.17
1	eo	133	TRP	CA-C-O	-5.01	115.24	120.55
1	eB	172	LEU	N-CA-C	5.01	116.74	111.28
1	eB	204	ALA	N-CA-CB	-5.01	102.74	110.16
1	eH	195	ASN	CA-C-O	-5.01	114.96	120.17
1	fn	97	ARG	N-CA-C	5.01	117.50	110.23
1	1x	179	GLN	CA-C-N	5.01	126.96	120.44
1	1x	179	GLN	C-N-CA	5.01	126.96	120.44
1	fH	125	PRO	O-C-N	-5.01	115.87	122.64
1	fW	210	THR	N-CA-CB	5.01	117.53	110.36
1	a	161	PHE	CA-CB-CG	-5.01	108.79	113.80
1	g	111	LEU	CB-CA-C	5.01	118.75	110.88
1	H	25	LYS	N-CA-CB	-5.01	102.51	110.28
1	7	143	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	8	157	PRO	N-CA-C	5.01	120.42	113.65
1	g8	17	PRO	N-CA-C	-5.01	107.00	113.57
1	g8	216	THR	CA-C-N	5.01	131.11	121.54
1	g8	216	THR	C-N-CA	5.01	131.11	121.54
1	ga	105	ALA	CA-C-O	5.01	125.73	119.97
1	gb	23	TRP	N-CA-C	5.01	117.12	111.11
1	gf	143	ARG	N-CA-C	5.01	117.63	111.82
1	gh	140	LYS	N-CA-C	5.01	116.74	111.28
1	gl	103	ASP	N-CA-C	-5.01	107.33	113.50
1	gr	5	ASN	CA-CB-CG	5.01	117.61	112.60
1	gt	121	ASN	O-C-N	-5.01	115.57	121.23
1	gx	144	MET	CB-CA-C	5.01	119.11	110.79
1	gz	33	SER	O-C-N	-5.01	115.56	121.32
1	gB	52	LEU	N-CA-CB	-5.01	102.74	110.16
1	gB	54	THR	O-C-N	5.01	127.43	122.12
1	gI	34	PRO	N-CA-CB	5.01	108.28	103.52
1	gL	45	GLU	N-CA-C	5.01	117.43	109.96
1	gN	187	GLU	CB-CA-C	-5.01	100.16	110.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gO	1	PRO	CB-CA-C	5.01	119.62	110.10
1	gQ	115	ILE	N-CA-CB	5.01	116.41	110.55
1	h7	143	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	h8	69	LEU	CA-C-O	5.01	125.86	120.55
1	hk	162	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	hn	167	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	hQ	138	LEU	CA-C-N	5.01	127.00	120.28
1	hQ	138	LEU	C-N-CA	5.01	127.00	120.28
1	i3	195	ASN	O-C-N	-5.01	115.56	121.32
1	ic	121	ASN	CA-CB-CG	5.01	117.61	112.60
1	ig	97	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	ih	2	ILE	CA-C-N	5.01	129.77	123.10
1	ih	2	ILE	C-N-CA	5.01	129.77	123.10
1	ij	190	LEU	N-CA-C	5.01	116.43	111.07
1	ir	120	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	iB	91	ILE	N-CA-C	5.01	119.77	109.34
1	iF	3	VAL	N-CA-CB	-5.01	105.69	112.10
1	iF	191	VAL	O-C-N	-5.01	117.01	121.87
1	iI	161	PHE	N-CA-C	5.01	117.12	111.11
1	iN	72	THR	CA-C-O	5.01	125.73	120.42
1	iN	207	PRO	CA-C-O	5.01	125.21	118.90
1	iP	210	THR	N-CA-CB	5.01	117.41	110.04
1	iQ	7	GLN	CA-C-N	5.01	125.42	120.31
1	iQ	7	GLN	C-N-CA	5.01	125.42	120.31
1	1S	102	SER	N-CA-C	5.01	116.74	111.28
1	1T	15	ILE	N-CA-C	5.01	119.76	109.34
1	ja	53	ASN	CA-C-O	5.01	125.76	120.10
1	jc	81	ASP	N-CA-C	5.01	116.74	111.28
1	je	146	SER	CA-C-N	5.01	126.10	119.84
1	je	146	SER	C-N-CA	5.01	126.10	119.84
1	jm	124	ILE	N-CA-CB	5.01	117.39	111.23
1	jy	54	THR	N-CA-C	5.01	116.74	111.28
1	jB	33	SER	CA-C-N	5.01	125.68	120.12
1	jB	33	SER	C-N-CA	5.01	125.68	120.12
1	jC	27	VAL	O-C-N	-5.01	116.67	121.83
1	jJ	204	ALA	CA-C-N	5.01	127.25	120.38
1	jJ	204	ALA	C-N-CA	5.01	127.25	120.38
1	jX	11	VAL	CB-CA-C	-5.01	102.16	111.18
1	k2	106	GLY	O-C-N	-5.01	116.71	122.42
1	kf	226	HIS	CA-CB-CG	5.01	118.81	113.80
1	kz	23	TRP	CB-CA-C	5.01	118.89	110.92
1	23	221	VAL	CB-CA-C	-5.01	105.37	112.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kF	37	ILE	CB-CA-C	-5.01	107.44	114.00
1	kI	125	PRO	CA-C-N	5.01	127.33	120.46
1	kI	125	PRO	C-N-CA	5.01	127.33	120.46
1	kI	209	ALA	CB-CA-C	-5.01	102.94	110.16
1	kK	59	VAL	O-C-N	-5.01	116.90	122.66
1	kM	24	VAL	CB-CA-C	5.01	118.91	112.14
1	kW	70	LYS	N-CA-CB	5.01	117.28	110.01
1	l4	102	SER	N-CA-C	5.01	116.74	111.28
1	l6	3	VAL	CA-CB-CG1	5.01	118.92	110.40
1	l7	159	GLU	N-CA-C	5.01	116.70	109.48
1	ll	128	GLU	N-CA-CB	5.01	117.28	110.01
1	lu	108	THR	CA-CB-CG2	-5.01	101.98	110.50
1	29	183	ASN	O-C-N	5.01	127.23	122.07
1	lJ	126	VAL	CA-C-N	5.01	126.41	120.14
1	lJ	126	VAL	C-N-CA	5.01	126.41	120.14
1	lK	60	GLY	CA-C-N	5.01	126.19	120.53
1	lK	60	GLY	C-N-CA	5.01	126.19	120.53
1	lK	172	LEU	CA-C-O	5.01	125.86	120.55
1	2c	4	GLN	CA-C-O	5.01	125.55	120.24
1	2h	88	ALA	O-C-N	-5.01	116.95	122.86
1	2h	99	PRO	CA-N-CD	5.01	119.02	112.00
1	2l	100	ARG	N-CA-CB	-5.01	103.28	110.44
1	2r	54	THR	OG1-CB-CG2	-5.01	99.28	109.30
1	2x	76	GLU	N-CA-C	5.01	116.82	111.36
1	2G	2	ILE	N-CA-CB	-5.01	105.58	111.39
1	2G	29	GLU	O-C-N	-5.01	116.62	122.03
1	2H	34	PRO	CA-C-N	5.01	130.48	121.66
1	2H	34	PRO	C-N-CA	5.01	130.48	121.66
1	2I	146	SER	N-CA-CB	5.01	117.72	109.90
1	2T	41	SER	CA-C-O	5.01	125.73	120.42
1	2V	105	ALA	CA-C-O	5.01	125.73	119.97
1	2W	37	ILE	O-C-N	-5.01	117.21	120.42
1	2Z	118	MET	O-C-N	-5.01	115.29	122.41
1	34	195	ASN	CB-CG-ND2	5.01	123.92	116.40
1	36	196	PRO	CA-C-N	5.01	127.00	120.28
1	36	196	PRO	C-N-CA	5.01	127.00	120.28
1	39	76	GLU	O-C-N	-5.01	116.11	122.27
1	3a	91	ILE	CB-CA-C	5.01	118.30	110.83
1	3b	229	ARG	CD-NE-CZ	-5.01	117.39	124.40
1	3j	55	MET	CA-C-N	5.01	127.00	120.28
1	3j	55	MET	C-N-CA	5.01	127.00	120.28
1	3k	192	GLN	OE1-CD-NE2	-5.01	117.59	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3o	147	PRO	CB-CA-C	-5.01	106.32	112.89
1	3u	200	THR	N-CA-CB	5.01	117.94	110.22
1	3w	100	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	3A	140	LYS	CA-C-N	5.01	126.87	120.56
1	3A	140	LYS	C-N-CA	5.01	126.87	120.56
1	3C	132	ARG	O-C-N	5.01	127.23	122.07
1	3F	158	LYS	N-CA-C	-5.01	106.58	113.30
1	3H	148	THR	CA-C-O	5.01	126.31	120.20
1	3O	100	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	3U	73	ILE	CA-C-O	-5.01	115.86	121.17
1	3U	227	LYS	CA-C-N	5.01	127.00	120.28
1	3U	227	LYS	C-N-CA	5.01	127.00	120.28
1	3W	91	ILE	O-C-N	-5.01	116.67	121.83
1	3W	110	THR	CA-C-N	5.01	126.99	120.28
1	3W	110	THR	C-N-CA	5.01	126.99	120.28
1	43	115	ILE	O-C-N	-5.01	116.67	121.83
1	4b	85	PRO	CA-C-N	5.01	127.22	120.50
1	4b	85	PRO	C-N-CA	5.01	127.22	120.50
1	4c	65	ALA	CA-C-O	5.01	125.73	120.42
1	4q	93	PRO	O-C-N	-5.01	116.74	122.85
1	4s	79	GLU	CA-C-N	5.01	127.00	120.28
1	4s	79	GLU	C-N-CA	5.01	127.00	120.28
1	4s	108	THR	N-CA-C	-5.01	106.48	112.59
1	4u	126	VAL	O-C-N	-5.01	116.67	121.83
1	4A	45	GLU	CB-CA-C	5.01	117.53	109.61
1	4B	210	THR	O-C-N	-5.01	117.14	122.85
1	4D	89	GLY	CA-C-O	-5.01	114.35	121.52
1	4F	131	LYS	O-C-N	-5.01	116.36	122.22
1	4Y	27	VAL	CA-C-N	5.01	126.95	120.44
1	4Y	27	VAL	C-N-CA	5.01	126.95	120.44
1	4Z	186	THR	CA-CB-OG1	5.01	117.12	109.60
1	54	153	ILE	CA-C-O	5.01	125.93	120.57
1	5e	142	VAL	CA-CB-CG1	5.01	118.92	110.40
1	5k	65	ALA	O-C-N	-5.01	116.88	122.09
1	5k	166	ASP	CB-CA-C	5.01	118.75	110.88
1	5k	171	THR	N-CA-C	5.01	117.39	111.33
1	5n	95	GLN	N-CA-C	5.01	116.86	107.99
1	5x	121	ASN	CA-CB-CG	-5.01	107.59	112.60
1	5C	205	LEU	N-CA-CB	5.01	119.25	110.98
1	5I	164	TYR	N-CA-C	5.01	117.39	111.33
1	5J	213	GLU	O-C-N	-5.01	116.44	122.15
1	5L	68	MET	N-CA-C	5.01	116.43	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5S	191	VAL	CA-CB-CG1	5.01	118.92	110.40
1	5U	67	GLN	CB-CA-C	-5.01	102.47	110.79
1	68	28	GLU	N-CA-C	5.01	116.43	110.97
1	6b	227	LYS	O-C-N	-5.01	115.79	122.20
1	6g	187	GLU	N-CA-C	5.01	116.55	111.14
1	6y	86	VAL	CA-CB-CG1	5.01	118.92	110.40
1	6y	90	PRO	CB-CA-C	-5.01	104.81	111.23
1	6Q	13	GLN	CB-CA-C	5.01	118.77	109.70
1	7g	10	MET	CB-CA-C	5.01	117.80	109.53
1	7j	55	MET	N-CA-C	5.01	116.82	111.36
1	7n	109	SER	CB-CA-C	-5.01	98.43	109.56
1	7F	158	LYS	O-C-N	-5.01	116.08	122.34
1	7H	103	ASP	CA-C-N	5.01	128.96	120.64
1	7H	103	ASP	C-N-CA	5.01	128.96	120.64
1	7J	172	LEU	O-C-N	-5.01	116.81	122.12
1	7Q	101	GLY	O-C-N	-5.01	116.82	122.28
1	7R	53	ASN	CA-C-O	-5.01	115.24	120.55
1	7V	36	VAL	N-CA-C	5.01	115.23	110.42
1	87	97	ARG	N-CA-CB	-5.01	103.09	110.26
1	8a	221	VAL	CA-CB-CG1	5.01	118.92	110.40
1	8f	208	ALA	CA-C-N	5.01	128.22	121.05
1	8f	208	ALA	C-N-CA	5.01	128.22	121.05
1	8n	200	THR	CA-C-N	5.01	126.87	120.56
1	8n	200	THR	C-N-CA	5.01	126.87	120.56
1	8t	192	GLN	CA-C-O	-5.01	115.56	120.82
1	8u	208	ALA	CA-C-O	5.01	125.50	119.59
1	8z	178	SER	N-CA-C	5.01	117.31	110.24
1	8A	28	GLU	CB-CA-C	-5.01	102.47	110.79
1	8I	84	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	8I	99	PRO	N-CA-CB	-5.01	99.29	103.30
1	8J	204	ALA	CA-C-O	5.01	125.73	119.97
1	8K	136	LEU	N-CA-C	-5.01	106.01	111.82
1	8V	48	THR	O-C-N	-5.01	116.02	121.53
1	8X	171	THR	CA-CB-CG2	-5.01	101.98	110.50
1	8X	214	MET	CA-C-N	5.01	127.41	120.29
1	8X	214	MET	C-N-CA	5.01	127.41	120.29
1	8Z	116	GLY	CA-C-N	5.01	127.00	120.28
1	8Z	116	GLY	C-N-CA	5.01	127.00	120.28
1	92	147	PRO	N-CA-CB	-5.01	97.99	103.25
1	92	209	ALA	O-C-N	5.01	128.56	122.85
1	96	162	ARG	O-C-N	-5.01	116.36	122.22
1	9e	149	SER	CA-C-N	5.01	128.96	120.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	9e	149	SER	C-N-CA	5.01	128.96	120.64
1	9f	149	SER	O-C-N	-5.01	116.95	122.86
1	9m	223	GLY	O-C-N	-5.01	116.76	121.77
1	9o	103	ASP	CA-CB-CG	-5.01	107.59	112.60
1	9p	67	GLN	N-CA-C	5.01	116.74	111.28
1	9v	50	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	9F	168	PHE	CA-C-O	5.01	126.58	121.07
1	9L	184	TRP	N-CA-C	5.01	117.63	111.82
1	9S	33	SER	N-CA-C	5.01	117.21	110.29
1	a0	142	VAL	O-C-N	5.01	126.82	121.91
1	a5	124	ILE	N-CA-CB	5.01	117.39	111.23
1	a6	186	THR	CA-C-N	5.01	127.41	120.29
1	a6	186	THR	C-N-CA	5.01	127.41	120.29
1	ae	58	THR	O-C-N	5.01	127.43	122.12
1	al	198	CYS	CA-C-O	5.01	125.80	120.24
1	ao	19	THR	N-CA-CB	5.01	117.58	110.16
1	ap	77	ALA	CA-C-N	5.01	127.00	120.28
1	ap	77	ALA	C-N-CA	5.01	127.00	120.28
1	aq	117	TRP	CE3-CZ3-CH2	-5.01	114.58	121.10
1	ax	90	PRO	CA-C-N	5.01	129.56	123.10
1	ax	90	PRO	C-N-CA	5.01	129.56	123.10
1	aA	79	GLU	CA-C-N	5.01	126.95	120.44
1	aA	79	GLU	C-N-CA	5.01	126.95	120.44
1	aE	143	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	aG	124	ILE	N-CA-C	-5.01	102.70	107.76
1	aI	108	THR	CB-CA-C	-5.01	102.95	111.02
1	aV	73	ILE	O-C-N	5.01	127.46	121.80
1	aW	177	ALA	CA-C-O	5.01	127.68	120.51
1	b7	18	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	17	20	LEU	N-CA-C	5.01	117.63	111.82
1	bi	2	ILE	CA-C-O	-5.01	114.81	120.67
1	bj	17	PRO	CB-CA-C	-5.01	103.24	111.31
1	bn	12	HIS	ND1-CE1-NE2	5.01	113.41	108.40
1	br	187	GLU	O-C-N	5.01	129.14	122.43
1	bt	7	GLN	CG-CD-NE2	5.01	123.92	116.40
1	bx	71	GLU	O-C-N	-5.01	116.82	122.03
1	by	87	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	by	174	ALA	CA-C-N	5.01	128.81	120.94
1	by	174	ALA	C-N-CA	5.01	128.81	120.94
1	by	177	ALA	O-C-N	-5.01	117.11	123.17
1	bK	188	THR	CB-CA-C	-5.01	102.98	110.90
1	bT	162	ARG	N-CA-C	5.01	116.82	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bX	172	LEU	CD1-CG-CD2	-5.01	99.77	110.80
1	c2	75	GLU	O-C-N	-5.01	116.91	122.07
1	cc	192	GLN	O-C-N	-5.01	116.11	122.27
1	ci	66	MET	CA-CB-CG	5.01	124.12	114.10
1	cv	120	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	cw	219	GLN	N-CA-C	5.01	117.41	109.24
1	cz	84	HIS	CA-C-O	-5.01	114.06	120.83
1	cz	112	GLN	N-CA-C	5.01	116.74	111.28
1	1f	5	ASN	N-CA-C	-5.01	107.12	114.39
1	cE	31	ALA	N-CA-C	5.01	121.47	110.80
1	cF	91	ILE	O-C-N	-5.01	117.77	123.03
1	cI	9	GLN	CA-C-N	5.01	128.19	120.82
1	cI	9	GLN	C-N-CA	5.01	128.19	120.82
1	cS	62	HIS	CB-CA-C	-5.01	104.78	111.89
1	cU	135	ILE	CA-C-N	5.01	127.00	120.28
1	cU	135	ILE	C-N-CA	5.01	127.00	120.28
1	d3	19	THR	N-CA-C	5.01	117.12	111.11
1	1i	144	MET	O-C-N	-5.01	116.81	122.12
1	d5	179	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	d9	116	GLY	CA-C-N	5.01	127.50	120.28
1	d9	116	GLY	C-N-CA	5.01	127.50	120.28
1	db	112	GLN	CG-CD-NE2	5.01	123.92	116.40
1	dr	29	GLU	CA-C-O	5.01	126.08	120.82
1	dw	7	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	dB	51	ASP	N-CA-C	5.01	116.74	111.28
1	dD	18	ARG	CA-C-N	5.01	127.41	120.29
1	dD	18	ARG	C-N-CA	5.01	127.41	120.29
1	dI	47	ALA	O-C-N	-5.01	117.35	123.16
1	dQ	203	LYS	N-CA-C	5.01	117.47	111.71
1	dS	124	ILE	CA-C-O	-5.01	116.19	119.15
1	e0	140	LYS	CA-C-O	-5.01	114.21	119.97
1	e1	21	ASN	OD1-CG-ND2	-5.01	117.59	122.60
1	1o	179	GLN	CA-C-N	5.01	127.24	120.38
1	1o	179	GLN	C-N-CA	5.01	127.24	120.38
1	e9	87	HIS	N-CA-C	5.01	117.12	111.11
1	1p	108	THR	CA-CB-CG2	-5.01	101.98	110.50
1	ef	48	THR	N-CA-CB	5.01	117.43	110.11
1	eh	120	HIS	N-CA-CB	5.01	117.43	110.26
1	ei	173	ARG	CD-NE-CZ	5.01	131.41	124.40
1	ek	63	GLN	OE1-CD-NE2	5.01	127.61	122.60
1	el	141	ILE	N-CA-C	-5.01	105.61	110.42
1	em	135	ILE	CA-C-N	5.01	127.00	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	em	135	ILE	C-N-CA	5.01	127.00	120.28
1	en	182	LYS	O-C-N	-5.01	116.81	122.12
1	es	48	THR	CA-C-O	-5.01	114.09	121.46
1	ev	226	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	ey	185	MET	N-CA-CB	5.01	117.58	110.16
1	eF	6	LEU	CA-C-O	5.01	125.42	119.56
1	eT	64	ALA	N-CA-CB	5.01	117.58	110.16
1	eU	76	GLU	CA-C-N	5.01	127.00	120.28
1	eU	76	GLU	C-N-CA	5.01	127.00	120.28
1	eZ	48	THR	O-C-N	-5.01	115.28	121.64
1	eZ	88	ALA	N-CA-CB	-5.01	103.28	110.65
1	f5	221	VAL	CA-C-O	5.01	125.89	120.43
1	f7	132	ARG	CD-NE-CZ	5.01	131.42	124.40
1	fh	43	LEU	CA-C-O	5.01	125.73	119.97
1	fp	109	SER	CA-C-N	5.01	129.71	121.39
1	fp	109	SER	C-N-CA	5.01	129.71	121.39
1	fp	160	PRO	N-CA-C	5.01	119.07	110.95
1	ft	71	GLU	CA-C-O	5.01	125.86	120.55
1	ft	82	ARG	N-CA-CB	5.01	117.49	110.12
1	fy	91	ILE	O-C-N	-5.01	117.21	122.67
1	fB	123	PRO	CA-C-N	5.01	128.56	122.85
1	fB	123	PRO	C-N-CA	5.01	128.56	122.85
1	fB	172	LEU	CA-C-N	5.01	127.00	120.28
1	fB	172	LEU	C-N-CA	5.01	127.00	120.28
1	fD	177	ALA	N-CA-C	5.01	117.17	110.35
1	1y	209	ALA	N-CA-C	5.01	121.47	110.80
1	fX	29	GLU	CG-CD-OE2	5.01	129.93	118.40
1	fY	62	HIS	N-CA-CB	5.01	118.96	110.49
1	g2	97	ARG	O-C-N	-5.01	116.65	122.81
1	g4	194	ALA	O-C-N	-5.01	116.95	122.86
1	g5	211	LEU	N-CA-C	5.01	119.02	113.01
1	g6	109	SER	CA-C-N	5.01	128.32	120.75
1	g6	109	SER	C-N-CA	5.01	128.32	120.75
1	g	17	PRO	CA-C-O	-5.01	112.19	118.86
1	n	215	MET	N-CA-CB	-5.01	102.47	109.94
1	2	124	ILE	CB-CA-C	5.01	116.95	111.04
1	y	158	LYS	O-C-N	-5.01	116.08	122.34
1	A	121	ASN	N-CA-C	5.01	118.27	108.85
1	C	10	MET	CG-SD-CE	-5.01	89.87	100.90
1	3	106	GLY	N-CA-C	5.01	122.03	115.47
1	G	35	GLU	CA-C-N	5.01	127.59	120.53
1	G	35	GLU	C-N-CA	5.01	127.59	120.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	116	GLY	O-C-N	-5.01	117.33	122.19
1	J	143	ARG	N-CA-C	-5.01	105.95	111.71
1	K	214	MET	CA-C-N	5.01	127.50	120.28
1	K	214	MET	C-N-CA	5.01	127.50	120.28
1	S	173	ARG	CA-C-N	5.01	127.93	120.31
1	S	173	ARG	C-N-CA	5.01	127.93	120.31
1	X	66	MET	O-C-N	-5.01	116.81	122.12
1	X	147	PRO	CB-CA-C	5.01	119.83	111.56
1	5	3	VAL	N-CA-C	5.01	116.13	109.37
1	g8	212	GLU	CB-CA-C	-5.01	103.02	110.88
1	gg	24	VAL	CA-CB-CG1	5.01	118.92	110.40
1	gl	32	PHE	CA-CB-CG	5.01	118.81	113.80
1	gn	75	GLU	N-CA-C	5.01	116.82	111.36
1	gv	180	GLU	N-CA-C	5.01	116.74	111.28
1	gA	28	GLU	CA-C-N	5.01	127.25	120.44
1	gA	28	GLU	C-N-CA	5.01	127.25	120.44
1	gH	162	ARG	CA-C-N	5.01	127.30	120.54
1	gH	162	ARG	C-N-CA	5.01	127.30	120.54
1	gI	7	GLN	N-CA-C	5.01	117.02	109.41
1	gS	60	GLY	CA-C-N	5.01	126.95	120.64
1	gS	60	GLY	C-N-CA	5.01	126.95	120.64
1	gW	23	TRP	CA-CB-CG	5.01	123.12	113.60
1	h3	162	ARG	CG-CD-NE	-5.01	100.98	112.00
1	h4	77	ALA	O-C-N	-5.01	116.81	122.12
1	hc	201	ILE	CA-C-N	5.01	127.50	120.28
1	hc	201	ILE	C-N-CA	5.01	127.50	120.28
1	hc	216	THR	CA-CB-OG1	5.01	117.11	109.60
1	hp	151	LEU	N-CA-CB	5.01	117.27	110.01
1	hq	205	LEU	CA-C-O	-5.01	115.24	120.55
1	hF	139	ASN	O-C-N	-5.01	116.88	122.09
1	1M	120	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	hX	174	ALA	N-CA-CB	5.01	117.48	110.12
1	i1	178	SER	CA-C-O	5.01	127.69	122.03
1	i2	185	MET	CG-SD-CE	-5.01	89.88	100.90
1	i5	221	VAL	CA-C-N	5.01	131.23	121.41
1	i5	221	VAL	C-N-CA	5.01	131.23	121.41
1	if	48	THR	CA-CB-OG1	5.01	117.11	109.60
1	ih	74	ASN	OD1-CG-ND2	5.01	127.61	122.60
1	it	74	ASN	CA-C-O	5.01	125.73	120.42
1	ix	193	ASN	CA-C-N	5.01	129.70	121.39
1	ix	193	ASN	C-N-CA	5.01	129.70	121.39
1	iA	195	ASN	CB-CA-C	5.01	117.28	109.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iA	229	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	1R	26	VAL	O-C-N	5.01	126.73	121.87
1	iP	45	GLU	N-CA-C	5.01	116.95	109.59
1	iW	194	ALA	N-CA-C	5.01	117.16	110.35
1	j1	169	TYR	O-C-N	-5.01	116.81	122.12
1	j4	81	ASP	N-CA-C	5.01	116.82	111.36
1	j8	43	LEU	O-C-N	-5.01	116.81	122.12
1	jb	187	GLU	N-CA-CB	5.01	118.26	110.44
1	jc	6	LEU	O-C-N	-5.01	116.72	122.08
1	jd	12	HIS	ND1-CE1-NE2	5.01	113.41	108.40
1	jf	20	LEU	N-CA-CB	5.01	117.33	110.07
1	jq	72	THR	CA-C-N	5.01	126.87	120.56
1	jq	72	THR	C-N-CA	5.01	126.87	120.56
1	jr	152	ASP	CA-CB-CG	-5.01	107.59	112.60
1	ju	55	MET	O-C-N	-5.01	116.91	122.07
1	jF	51	ASP	N-CA-C	-5.01	105.90	111.36
1	jG	193	ASN	CA-CB-CG	-5.01	107.59	112.60
1	jH	86	VAL	O-C-N	-5.01	117.47	123.03
1	jJ	222	GLY	N-CA-C	5.01	120.17	112.51
1	jK	55	MET	CG-SD-CE	-5.01	89.88	100.90
1	jK	195	ASN	O-C-N	-5.01	115.82	121.43
1	jN	133	TRP	CA-CB-CG	5.01	123.12	113.60
1	jO	89	GLY	CA-C-N	5.01	126.10	119.84
1	jO	89	GLY	C-N-CA	5.01	126.10	119.84
1	jO	207	PRO	CB-CA-C	5.01	116.05	109.89
1	jP	189	LEU	O-C-N	-5.01	116.44	122.15
1	jX	47	ALA	CA-C-O	5.01	126.21	120.80
1	jZ	46	GLY	CA-C-N	5.01	128.66	121.50
1	jZ	46	GLY	C-N-CA	5.01	128.66	121.50
1	k6	199	LYS	N-CA-C	-5.01	105.95	111.71
1	k8	125	PRO	CA-C-N	5.01	128.38	120.47
1	k8	125	PRO	C-N-CA	5.01	128.38	120.47
1	20	199	LYS	CA-C-O	5.01	125.73	119.97
1	kc	164	TYR	N-CA-C	5.01	116.74	111.28
1	ke	34	PRO	CA-C-N	5.01	127.69	120.38
1	ke	34	PRO	C-N-CA	5.01	127.69	120.38
1	ke	62	HIS	CG-ND1-CE1	-5.01	100.78	109.30
1	21	104	ILE	CA-C-O	-5.01	115.54	120.85
1	kk	82	ARG	CA-C-N	5.01	126.95	120.44
1	kk	82	ARG	C-N-CA	5.01	126.95	120.44
1	kp	42	ALA	N-CA-CB	-5.01	102.50	110.22
1	kE	54	THR	N-CA-CB	5.01	117.27	110.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	kH	213	GLU	CA-C-O	5.01	125.73	119.97
1	kL	45	GLU	N-CA-CB	5.01	117.80	109.88
1	kL	157	PRO	CB-CA-C	-5.01	104.36	112.62
1	kO	205	LEU	N-CA-C	5.01	117.51	111.40
1	kQ	51	ASP	CA-C-N	5.01	126.99	120.28
1	kQ	51	ASP	C-N-CA	5.01	126.99	120.28
1	kV	37	ILE	N-CA-CB	5.01	118.22	111.21
1	l1	84	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	l2	194	ALA	CA-C-N	5.01	127.60	120.49
1	l2	194	ALA	C-N-CA	5.01	127.60	120.49
1	l7	110	THR	O-C-N	-5.01	117.37	123.03
1	lf	208	ALA	O-C-N	-5.01	115.28	122.04
1	ln	128	GLU	O-C-N	-5.01	116.88	122.09
1	lr	78	ALA	N-CA-CB	-5.01	102.75	110.16
1	28	38	PRO	O-C-N	-5.01	115.97	122.23
1	ly	5	ASN	N-CA-C	-5.01	105.90	112.41
1	lC	149	SER	CA-C-N	5.01	128.85	120.64
1	lC	149	SER	C-N-CA	5.01	128.85	120.64
1	lI	100	ARG	CA-C-N	5.01	125.54	119.98
1	lI	100	ARG	C-N-CA	5.01	125.54	119.98
1	lN	52	LEU	CA-C-N	5.01	126.99	120.28
1	lN	52	LEU	C-N-CA	5.01	126.99	120.28
1	2k	190	LEU	CB-CA-C	-5.01	103.02	110.88
1	2k	204	ALA	N-CA-C	5.01	119.02	113.01
1	2B	97	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	2C	79	GLU	CA-C-O	5.01	125.73	120.42
1	2F	85	PRO	N-CA-C	5.01	119.42	111.26
1	2G	119	THR	CA-CB-CG2	-5.01	101.98	110.50
1	2N	14	ALA	N-CA-C	5.01	117.16	110.35
1	2W	49	PRO	N-CA-CB	5.01	108.83	103.52
1	2X	191	VAL	CA-CB-CG2	-5.01	101.89	110.40
1	2Y	93	PRO	N-CA-CB	5.01	107.77	103.31
1	35	132	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	3m	112	GLN	CA-C-N	5.01	126.95	120.44
1	3m	112	GLN	C-N-CA	5.01	126.95	120.44
1	3t	151	LEU	CD1-CG-CD2	5.01	121.82	110.80
1	3y	141	ILE	CA-CB-CG2	-5.01	101.98	110.50
1	3z	192	GLN	N-CA-CB	5.01	117.73	110.47
1	3J	186	THR	CA-CB-OG1	5.01	117.11	109.60
1	3S	15	ILE	CB-CG1-CD1	-5.01	103.28	113.80
1	45	100	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	4a	10	MET	N-CA-C	5.01	118.30	111.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4j	62	HIS	CB-CG-ND1	-5.01	115.19	122.70
1	4s	193	ASN	N-CA-C	-5.01	106.95	113.16
1	4v	147	PRO	N-CA-CB	-5.01	97.99	103.25
1	4C	125	PRO	CA-C-N	5.01	127.53	120.42
1	4C	125	PRO	C-N-CA	5.01	127.53	120.42
1	4F	210	THR	N-CA-CB	5.01	117.40	110.04
1	4G	117	TRP	CB-CG-CD1	5.01	134.42	126.90
1	4W	14	ALA	CB-CA-C	-5.01	101.40	109.72
1	4X	86	VAL	N-CA-CB	5.01	116.84	110.13
1	4Z	156	GLY	CA-C-O	-5.01	116.36	121.62
1	54	180	GLU	CA-C-N	5.01	127.32	120.46
1	54	180	GLU	C-N-CA	5.01	127.32	120.46
1	5d	145	TYR	CB-CG-CD2	-5.01	113.29	120.80
1	5i	218	CYS	CA-C-O	5.01	125.88	120.12
1	5p	3	VAL	CB-CA-C	5.01	118.21	110.50
1	5I	14	ALA	N-CA-C	5.01	117.89	110.48
1	5N	15	ILE	O-C-N	-5.01	117.15	122.61
1	5V	205	LEU	N-CA-C	5.01	116.43	111.07
1	5Y	161	PHE	CA-CB-CG	-5.01	108.79	113.80
1	64	132	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	64	183	ASN	CA-CB-CG	5.01	117.61	112.60
1	6a	85	PRO	O-C-N	5.01	128.49	122.23
1	6c	150	ILE	N-CA-CB	-5.01	104.45	112.07
1	6j	42	ALA	O-C-N	-5.01	116.91	122.07
1	6k	167	ARG	CA-CB-CG	5.01	124.12	114.10
1	6v	148	THR	O-C-N	-5.01	117.87	123.48
1	6w	178	SER	CA-C-N	5.01	126.95	120.44
1	6w	178	SER	C-N-CA	5.01	126.95	120.44
1	6D	218	CYS	CA-C-N	5.01	127.24	120.38
1	6D	218	CYS	C-N-CA	5.01	127.24	120.38
1	6G	154	ARG	O-C-N	-5.01	117.27	123.33
1	6L	21	ASN	O-C-N	-5.01	115.25	122.36
1	6V	107	THR	CA-CB-OG1	-5.01	102.08	109.60
1	6W	55	MET	CG-SD-CE	-5.01	89.88	100.90
1	6Y	107	THR	N-CA-CB	5.01	117.57	110.16
1	78	199	LYS	CA-C-O	5.01	125.76	120.10
1	7j	74	ASN	O-C-N	-5.01	116.91	122.07
1	7o	81	ASP	CA-C-N	5.01	127.25	120.44
1	7o	81	ASP	C-N-CA	5.01	127.25	120.44
1	7x	210	THR	O-C-N	-5.01	117.14	122.85
1	7J	48	THR	O-C-N	-5.01	116.29	121.60
1	7N	89	GLY	CA-C-N	5.01	125.29	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7N	89	GLY	C-N-CA	5.01	125.29	119.93
1	7P	71	GLU	CA-C-O	-5.01	115.56	120.82
1	7W	128	GLU	CB-CG-CD	5.01	121.11	112.60
1	7X	23	TRP	CB-CG-CD2	5.01	133.81	126.80
1	7Y	37	ILE	N-CA-C	5.01	119.70	108.88
1	8g	173	ARG	N-CA-C	5.01	117.39	111.33
1	8h	62	HIS	ND1-CG-CD2	5.01	111.11	106.10
1	8j	212	GLU	CA-CB-CG	-5.01	104.08	114.10
1	8k	63	GLN	O-C-N	-5.01	116.44	122.15
1	8n	92	GLU	CA-C-N	5.01	125.02	120.21
1	8n	92	GLU	C-N-CA	5.01	125.02	120.21
1	8n	178	SER	CA-C-N	5.01	127.24	120.38
1	8n	178	SER	C-N-CA	5.01	127.24	120.38
1	8F	25	LYS	CA-C-N	5.01	127.53	120.42
1	8F	25	LYS	C-N-CA	5.01	127.53	120.42
1	8J	230	VAL	CA-C-N	5.01	130.72	121.70
1	8J	230	VAL	C-N-CA	5.01	130.72	121.70
1	8N	53	ASN	CB-CG-ND2	5.01	123.92	116.40
1	8R	75	GLU	CA-CB-CG	-5.01	104.08	114.10
1	8Y	228	ALA	N-CA-CB	5.01	117.38	110.17
1	91	91	ILE	CB-CA-C	-5.01	104.22	111.19
1	94	217	ALA	N-CA-CB	-5.01	102.67	110.29
1	96	172	LEU	O-C-N	5.01	127.86	122.15
1	98	79	GLU	N-CA-CB	5.01	117.48	110.12
1	9k	93	PRO	N-CA-C	5.01	122.79	112.47
1	9l	115	ILE	N-CA-CB	5.01	118.09	110.58
1	9s	86	VAL	N-CA-C	5.01	119.76	109.34
1	9w	229	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	9z	80	TRP	CB-CG-CD2	-5.01	119.79	126.80
1	9z	115	ILE	CA-CB-CG1	5.01	118.92	110.40
1	9R	13	GLN	CA-C-N	5.01	128.45	121.24
1	9R	13	GLN	C-N-CA	5.01	128.45	121.24
1	9R	56	LEU	N-CA-C	5.01	116.43	111.07
1	9X	12	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	a0	138	LEU	CB-CG-CD2	5.01	125.73	110.70
1	a8	4	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	10	200	THR	N-CA-C	5.01	117.63	111.82
1	ac	22	ALA	N-CA-C	5.01	116.74	111.28
1	aj	143	ARG	CG-CD-NE	-5.01	100.98	112.00
1	11	182	LYS	N-CA-CB	5.01	117.93	110.22
1	ao	191	VAL	CA-C-N	5.01	127.25	120.44
1	ao	191	VAL	C-N-CA	5.01	127.25	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	as	74	ASN	N-CA-CB	5.01	117.48	110.12
1	as	150	ILE	N-CA-C	5.01	119.12	112.76
1	aD	148	THR	N-CA-C	-5.01	100.70	108.42
1	aK	163	ASP	CA-C-N	5.01	127.25	120.44
1	aK	163	ASP	C-N-CA	5.01	127.25	120.44
1	aY	154	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	b4	78	ALA	CA-C-O	5.01	126.04	120.63
1	b7	97	ARG	CG-CD-NE	-5.01	100.98	112.00
1	b8	141	ILE	CA-C-O	5.01	125.88	120.47
1	ba	159	GLU	N-CA-C	5.01	116.00	109.64
1	bc	80	TRP	CA-CB-CG	5.01	123.12	113.60
1	bl	77	ALA	N-CA-C	5.01	116.43	111.07
1	bq	107	THR	N-CA-C	-5.01	107.85	114.31
1	br	164	TYR	CA-C-N	5.01	127.53	120.42
1	br	164	TYR	C-N-CA	5.01	127.53	120.42
1	1a	25	LYS	N-CA-C	5.01	116.74	111.28
1	bM	95	GLN	OE1-CD-NE2	5.01	127.61	122.60
1	bO	191	VAL	N-CA-CB	-5.01	103.07	110.58
1	c9	21	ASN	OD1-CG-ND2	5.01	127.61	122.60
1	cc	170	LYS	CA-CB-CG	5.01	124.12	114.10
1	cd	6	LEU	CA-C-O	5.01	126.58	120.57
1	cd	41	SER	CA-C-O	-5.01	115.24	120.55
1	cq	84	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	cs	145	TYR	O-C-N	-5.01	115.12	122.43
1	cy	209	ALA	CA-C-N	5.01	128.31	120.75
1	cy	209	ALA	C-N-CA	5.01	128.31	120.75
1	cI	56	LEU	N-CA-C	5.01	117.12	111.11
1	cI	82	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	d2	37	ILE	O-C-N	-5.01	115.39	121.10
1	1i	37	ILE	O-C-N	-5.01	115.39	121.10
1	1i	140	LYS	CA-C-N	5.01	126.87	120.56
1	1i	140	LYS	C-N-CA	5.01	126.87	120.56
1	d4	24	VAL	CA-C-O	-5.01	115.84	121.05
1	d6	142	VAL	CA-C-O	-5.01	115.86	121.17
1	d9	166	ASP	N-CA-C	5.01	116.74	111.28
1	dq	54	THR	CA-C-N	5.01	127.30	120.54
1	dq	54	THR	C-N-CA	5.01	127.30	120.54
1	ds	53	ASN	O-C-N	-5.01	116.81	122.12
1	dz	220	GLY	CA-C-O	5.01	125.95	119.44
1	dI	154	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	dM	175	GLU	N-CA-C	5.01	117.07	107.75
1	dP	108	THR	N-CA-CB	5.01	117.47	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dQ	114	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	dR	226	HIS	N-CA-C	5.01	116.43	111.07
1	1n	38	PRO	O-C-N	5.01	127.59	122.18
1	e0	24	VAL	O-C-N	-5.01	117.00	121.91
1	1o	169	TYR	N-CA-C	5.01	116.74	111.28
1	eb	82	ARG	CB-CG-CD	5.01	122.82	111.30
1	1q	103	ASP	CA-C-O	-5.01	115.11	120.42
1	eq	23	TRP	CE2-CD2-CE3	5.01	123.81	118.80
1	ey	128	GLU	CA-C-N	5.01	127.06	120.60
1	ey	128	GLU	C-N-CA	5.01	127.06	120.60
1	eH	167	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	eJ	62	HIS	CA-C-N	5.01	126.99	120.28
1	eJ	62	HIS	C-N-CA	5.01	126.99	120.28
1	eP	27	VAL	CA-C-N	5.01	126.99	120.28
1	eP	27	VAL	C-N-CA	5.01	126.99	120.28
1	eP	175	GLU	CA-C-N	5.01	131.26	122.95
1	eP	175	GLU	C-N-CA	5.01	131.26	122.95
1	eT	126	VAL	O-C-N	5.01	126.73	121.87
1	eV	221	VAL	O-C-N	-5.01	117.21	122.57
1	f6	73	ILE	N-CA-CB	-5.01	104.69	110.55
1	f7	2	ILE	CA-CB-CG1	5.01	118.92	110.40
1	fe	35	GLU	CB-CG-CD	5.01	121.11	112.60
1	fi	23	TRP	CA-C-O	5.01	126.26	121.00
1	fi	144	MET	CA-C-N	5.01	131.27	122.95
1	fi	144	MET	C-N-CA	5.01	131.27	122.95
1	1w	47	ALA	CA-C-O	5.01	126.57	120.81
1	fJ	154	ARG	CB-CG-CD	5.01	122.82	111.30
1	fM	208	ALA	N-CA-C	-5.01	107.30	113.41
1	fN	87	HIS	CB-CG-ND1	5.01	130.21	122.70
1	fN	230	VAL	N-CA-CB	5.01	116.25	110.49
1	fW	81	ASP	O-C-N	-5.01	116.81	122.12
1	fY	69	LEU	CA-C-O	5.01	126.08	120.82
1	g4	62	HIS	CA-CB-CG	5.01	118.81	113.80
1	g5	5	ASN	CA-CB-CG	-5.01	107.59	112.60
1	g7	132	ARG	N-CA-C	5.01	116.43	111.07
1	e	8	GLY	O-C-N	-5.01	116.19	122.70
1	e	147	PRO	O-C-N	-5.01	115.88	122.64
1	k	45	GLU	CA-C-N	5.01	129.49	120.77
1	k	45	GLU	C-N-CA	5.01	129.49	120.77
1	k	168	PHE	CA-C-O	-5.01	115.56	120.82
1	l	169	TYR	CA-CB-CG	-5.01	104.88	113.90
1	m	188	THR	CA-CB-OG1	5.01	117.11	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	n	210	THR	O-C-N	-5.01	117.45	123.06
1	I	128	GLU	O-C-N	-5.01	116.88	122.09
1	O	184	TRP	CB-CG-CD1	-5.01	119.39	126.90
1	T	72	THR	CA-C-O	5.01	126.08	120.82
1	W	86	VAL	CA-C-O	-5.01	114.52	120.78
1	6	11	VAL	CA-CB-CG1	5.01	118.92	110.40
1	9	87	HIS	N-CA-C	5.01	117.73	109.72
1	g8	103	ASP	CA-CB-CG	5.01	117.61	112.60
1	gc	203	LYS	CG-CD-CE	5.01	122.82	111.30
1	gw	120	HIS	O-C-N	-5.01	116.95	122.86
1	gR	229	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	hb	131	LYS	N-CA-C	5.01	117.39	111.33
1	hf	106	GLY	CA-C-N	5.01	127.25	120.44
1	hf	106	GLY	C-N-CA	5.01	127.25	120.44
1	hg	135	ILE	O-C-N	-5.01	116.14	121.80
1	hm	204	ALA	N-CA-C	5.01	117.39	111.33
1	1J	208	ALA	CB-CA-C	-5.01	101.35	111.17
1	ht	84	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	hF	23	TRP	N-CA-C	5.01	117.12	111.11
1	1L	163	ASP	O-C-N	-5.01	116.81	122.12
1	hN	53	ASN	N-CA-C	-5.01	105.90	111.36
1	hQ	151	LEU	CB-CA-C	-5.01	100.59	110.11
1	hQ	219	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	i8	221	VAL	CB-CA-C	-5.01	104.35	111.21
1	ia	96	MET	O-C-N	-5.01	113.84	122.20
1	iC	184	TRP	CB-CG-CD2	-5.01	119.79	126.80
1	iD	222	GLY	CA-C-O	-5.01	116.22	121.53
1	iE	115	ILE	CA-C-O	5.01	126.16	120.85
1	iN	108	THR	N-CA-C	-5.01	106.48	112.59
1	iU	162	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	j0	22	ALA	CA-C-N	5.01	126.95	120.44
1	j0	22	ALA	C-N-CA	5.01	126.95	120.44
1	1T	67	GLN	N-CA-C	5.01	116.74	111.28
1	jq	74	ASN	N-CA-CB	5.01	117.57	110.06
1	js	15	ILE	CB-CA-C	5.01	118.87	111.26
1	js	128	GLU	CA-C-N	5.01	126.87	120.56
1	js	128	GLU	C-N-CA	5.01	126.87	120.56
1	jB	110	THR	N-CA-CB	5.01	118.03	110.42
1	jH	183	ASN	N-CA-C	-5.01	105.10	111.11
1	jK	84	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	jL	224	PRO	N-CA-C	5.01	119.07	111.11
1	k3	92	GLU	CA-C-O	-5.01	113.98	118.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	k7	24	VAL	CA-C-N	5.01	127.49	120.28
1	k7	24	VAL	C-N-CA	5.01	127.49	120.28
1	ka	73	ILE	N-CA-CB	5.01	117.35	110.54
1	kf	83	LEU	CD1-CG-CD2	5.01	121.82	110.80
1	21	80	TRP	CA-C-N	5.01	126.99	120.28
1	21	80	TRP	C-N-CA	5.01	126.99	120.28
1	kF	218	CYS	N-CA-CB	5.01	118.95	110.49
1	kT	161	PHE	CA-C-O	-5.01	115.54	120.90
1	kU	154	ARG	CA-C-N	5.01	127.88	120.82
1	kU	154	ARG	C-N-CA	5.01	127.88	120.82
1	26	125	PRO	CA-C-N	5.01	127.32	120.46
1	26	125	PRO	C-N-CA	5.01	127.32	120.46
1	l9	5	ASN	OD1-CG-ND2	5.01	127.61	122.60
1	lC	10	MET	CG-SD-CE	-5.01	89.88	100.90
1	lC	141	ILE	O-C-N	-5.01	116.67	121.83
1	2a	227	LYS	CA-C-O	5.01	124.69	119.03
1	2c	205	LEU	O-C-N	-5.01	116.08	122.34
1	2d	3	VAL	CB-CA-C	-5.01	103.16	110.62
1	2i	194	ALA	CA-C-N	5.01	128.26	120.60
1	2i	194	ALA	C-N-CA	5.01	128.26	120.60
1	2t	162	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	2D	189	LEU	N-CA-C	5.01	117.12	111.11
1	2S	150	ILE	O-C-N	-5.01	117.60	122.16
1	37	110	THR	O-C-N	-5.01	117.14	122.85
1	39	173	ARG	N-CA-C	5.01	118.54	112.23
1	3e	97	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	3j	121	ASN	OD1-CG-ND2	-5.01	117.59	122.60
1	3k	122	PRO	CA-C-N	5.01	124.92	119.76
1	3k	122	PRO	C-N-CA	5.01	124.92	119.76
1	3k	159	GLU	CB-CA-C	5.01	115.13	110.17
1	3k	227	LYS	N-CA-CB	5.01	117.52	110.36
1	3Q	9	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	42	176	GLN	CA-CB-CG	5.01	124.12	114.10
1	4c	87	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	4O	114	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	4R	36	VAL	O-C-N	-5.01	117.01	121.87
1	5d	154	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	5e	131	LYS	O-C-N	-5.01	116.81	122.12
1	5s	105	ALA	CA-C-N	5.01	129.48	120.77
1	5s	105	ALA	C-N-CA	5.01	129.48	120.77
1	5E	105	ALA	CA-C-N	5.01	131.28	121.06
1	5E	105	ALA	C-N-CA	5.01	131.28	121.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5P	118	MET	O-C-N	-5.01	115.46	122.37
1	5Y	21	ASN	CA-CB-CG	-5.01	107.59	112.60
1	6n	152	ASP	CA-C-N	5.01	127.29	120.63
1	6n	152	ASP	C-N-CA	5.01	127.29	120.63
1	6I	173	ARG	CG-CD-NE	-5.01	100.98	112.00
1	6P	87	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	6S	39	MET	N-CA-CB	-5.01	102.52	110.28
1	71	187	GLU	CA-C-N	5.01	126.99	120.28
1	71	187	GLU	C-N-CA	5.01	126.99	120.28
1	7m	95	GLN	O-C-N	-5.01	115.93	122.59
1	7q	63	GLN	CA-C-N	5.01	127.75	120.79
1	7q	63	GLN	C-N-CA	5.01	127.75	120.79
1	7w	126	VAL	O-C-N	-5.01	116.98	121.89
1	7F	49	PRO	CA-C-O	-5.01	111.38	119.84
1	7J	74	ASN	CA-CB-CG	-5.01	107.59	112.60
1	7N	62	HIS	CB-CA-C	5.01	119.42	111.51
1	7O	219	GLN	N-CA-C	5.01	117.49	110.23
1	89	8	GLY	CA-C-O	-5.01	117.38	122.59
1	8f	27	VAL	N-CA-C	5.01	115.23	110.42
1	8j	119	THR	N-CA-CB	5.01	118.10	110.44
1	8z	32	PHE	CA-C-O	5.01	127.67	120.51
1	8C	60	GLY	CA-C-N	5.01	127.74	121.83
1	8C	60	GLY	C-N-CA	5.01	127.74	121.83
1	8S	167	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	8Y	120	HIS	CA-CB-CG	5.01	118.81	113.80
1	8Z	111	LEU	N-CA-C	5.01	119.63	111.37
1	90	12	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	94	21	ASN	CA-CB-CG	5.01	117.61	112.60
1	9k	54	THR	CA-C-N	5.01	127.49	120.28
1	9k	54	THR	C-N-CA	5.01	127.49	120.28
1	9n	34	PRO	N-CA-CB	-5.01	98.70	103.41
1	9I	186	THR	N-CA-CB	5.01	117.33	110.07
1	9L	102	SER	CA-C-N	5.01	126.99	120.28
1	9L	102	SER	C-N-CA	5.01	126.99	120.28
1	9Y	91	ILE	CA-CB-CG1	5.01	118.91	110.40
1	9Y	140	LYS	CA-C-N	5.01	126.87	120.56
1	9Y	140	LYS	C-N-CA	5.01	126.87	120.56
1	Z	79	GLU	CA-C-N	5.01	127.30	120.54
1	Z	79	GLU	C-N-CA	5.01	127.30	120.54
1	ac	172	LEU	CB-CA-C	-5.01	102.48	110.79
1	ae	226	HIS	ND1-CE1-NE2	5.01	113.41	108.40
1	ak	65	ALA	CA-C-N	5.01	127.24	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	ak	65	ALA	C-N-CA	5.01	127.24	120.38
1	at	151	LEU	CA-C-O	5.01	125.54	119.38
1	av	78	ALA	CB-CA-C	5.01	118.74	110.88
1	ax	42	ALA	O-C-N	5.01	127.43	122.12
1	b5	198	CYS	CA-C-N	5.01	127.92	120.31
1	b5	198	CYS	C-N-CA	5.01	127.92	120.31
1	16	80	TRP	CE3-CZ3-CH2	-5.01	114.59	121.10
1	bb	38	PRO	CA-C-N	5.01	126.99	120.28
1	bb	38	PRO	C-N-CA	5.01	126.99	120.28
1	ch	65	ALA	CB-CA-C	5.01	119.36	110.85
1	ci	203	LYS	O-C-N	5.01	128.43	122.27
1	co	117	TRP	CA-C-N	5.01	127.92	120.31
1	co	117	TRP	C-N-CA	5.01	127.92	120.31
1	cp	58	THR	CA-C-O	-5.01	115.24	120.55
1	cp	109	SER	O-C-N	-5.01	115.70	122.81
1	cy	53	ASN	CA-C-O	5.01	125.86	120.55
1	cz	79	GLU	CA-C-N	5.01	127.69	120.38
1	cz	79	GLU	C-N-CA	5.01	127.69	120.38
1	1f	117	TRP	N-CA-C	5.01	116.74	111.28
1	cF	150	ILE	CA-C-O	5.01	125.64	119.58
1	cM	151	LEU	CA-C-O	5.01	125.54	119.38
1	cQ	97	ARG	NH1-CZ-NH2	5.01	125.81	119.30
1	cR	14	ALA	N-CA-C	5.01	117.49	110.23
1	d8	120	HIS	O-C-N	-5.01	115.93	122.59
1	dF	195	ASN	N-CA-C	5.01	120.88	109.81
1	dG	102	SER	CA-CB-OG	5.01	121.12	111.10
1	ee	136	LEU	CA-C-N	5.01	125.50	119.94
1	ee	136	LEU	C-N-CA	5.01	125.50	119.94
1	ef	192	GLN	CB-CG-CD	-5.01	104.09	112.60
1	ek	13	GLN	CG-CD-NE2	5.01	123.91	116.40
1	es	95	GLN	O-C-N	-5.01	117.03	122.84
1	et	85	PRO	CA-C-O	-5.01	115.69	121.95
1	eC	4	GLN	CA-C-O	5.01	127.67	120.51
1	fg	225	GLY	CA-C-N	5.01	128.80	120.94
1	fg	225	GLY	C-N-CA	5.01	128.80	120.94
1	fq	37	ILE	CA-CB-CG2	5.01	119.01	110.50
1	fL	12	HIS	CA-CB-CG	5.01	118.81	113.80
1	fU	152	ASP	O-C-N	-5.01	115.46	122.37
1	g7	138	LEU	CA-C-N	5.01	126.99	120.28
1	g7	138	LEU	C-N-CA	5.01	126.99	120.28
1	d	101	GLY	CA-C-N	5.01	128.61	120.60
1	d	101	GLY	C-N-CA	5.01	128.61	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	167	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	H	97	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	W	201	ILE	N-CA-C	5.01	115.73	110.62
1	7	92	GLU	N-CA-C	5.01	116.14	109.93
1	g9	81	ASP	N-CA-C	5.01	116.55	111.14
1	gg	7	GLN	O-C-N	-5.01	118.01	123.52
1	gi	54	THR	O-C-N	-5.01	116.81	122.12
1	gn	72	THR	OG1-CB-CG2	-5.01	99.29	109.30
1	go	110	THR	O-C-N	-5.01	116.01	122.97
1	gu	108	THR	N-CA-CB	5.01	119.20	111.39
1	gw	112	GLN	O-C-N	-5.01	116.88	122.09
1	gy	63	GLN	N-CA-C	5.01	121.46	110.80
1	gy	109	SER	CA-C-O	5.01	125.55	120.24
1	gD	224	PRO	N-CA-CB	-5.01	97.99	103.25
1	gM	212	GLU	N-CA-CB	5.01	117.27	110.01
1	gT	110	THR	CA-C-N	5.01	127.49	120.28
1	gT	110	THR	C-N-CA	5.01	127.49	120.28
1	gU	81	ASP	CA-C-N	5.01	126.99	120.28
1	gU	81	ASP	C-N-CA	5.01	126.99	120.28
1	h1	181	VAL	N-CA-CB	5.01	116.07	110.51
1	h6	134	ILE	CA-CB-CG2	5.01	119.01	110.50
1	h9	131	LYS	CA-C-N	5.01	126.99	120.28
1	h9	131	LYS	C-N-CA	5.01	126.99	120.28
1	hb	69	LEU	O-C-N	-5.01	116.88	122.09
1	hs	216	THR	CA-CB-CG2	5.01	119.01	110.50
1	hu	191	VAL	O-C-N	-5.01	116.67	121.83
1	hB	40	PHE	CA-C-O	-5.01	115.24	120.55
1	hI	205	LEU	CA-C-N	5.01	129.73	121.87
1	hI	205	LEU	C-N-CA	5.01	129.73	121.87
1	i5	59	VAL	O-C-N	-5.01	116.90	122.66
1	i9	175	GLU	N-CA-C	5.01	117.47	109.96
1	ii	36	VAL	CA-CB-CG2	-5.01	101.89	110.40
1	is	167	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	iN	146	SER	CB-CA-C	-5.01	101.35	109.56
1	iV	50	GLN	N-CA-C	5.01	116.74	111.28
1	j0	184	TRP	CH2-CZ2-CE2	5.01	124.01	117.50
1	j2	18	ARG	N-CA-C	5.01	116.43	111.07
1	j6	69	LEU	CA-C-N	5.01	127.40	120.29
1	j6	69	LEU	C-N-CA	5.01	127.40	120.29
1	jg	214	MET	O-C-N	-5.01	116.44	122.15
1	ji	133	TRP	N-CA-CB	5.01	117.48	110.12
1	jy	10	MET	CG-SD-CE	-5.01	89.89	100.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	jC	18	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	jH	184	TRP	CA-C-N	5.01	126.95	120.44
1	jH	184	TRP	C-N-CA	5.01	126.95	120.44
1	jJ	88	ALA	CA-C-N	5.01	129.73	121.87
1	jJ	88	ALA	C-N-CA	5.01	129.73	121.87
1	jK	124	ILE	O-C-N	-5.01	116.91	121.41
1	jN	68	MET	N-CA-C	5.01	116.74	111.28
1	jU	82	ARG	NH1-CZ-NH2	-5.01	112.79	119.30
1	1Z	173	ARG	NE-CZ-NH1	5.01	126.51	121.50
1	km	151	LEU	CA-C-O	5.01	125.52	119.11
1	23	72	THR	CA-CB-OG1	5.01	117.11	109.60
1	kG	111	LEU	CA-C-O	5.01	126.04	120.63
1	kN	155	GLN	CA-C-O	-5.01	114.90	120.66
1	kO	99	PRO	N-CA-C	5.01	119.06	111.15
1	kP	209	ALA	N-CA-C	5.01	118.37	109.96
1	kW	78	ALA	CA-C-N	5.01	127.49	120.28
1	kW	78	ALA	C-N-CA	5.01	127.49	120.28
1	l1	42	ALA	O-C-N	-5.01	116.81	122.12
1	l2	73	ILE	N-CA-CB	-5.01	104.69	110.55
1	l4	58	THR	CA-CB-CG2	5.01	119.01	110.50
1	l8	78	ALA	CA-C-O	5.01	125.86	120.55
1	lc	18	ARG	NE-CZ-NH1	-5.01	116.49	121.50
1	ln	80	TRP	CB-CG-CD1	5.01	134.41	126.90
1	lo	25	LYS	CB-CG-CD	5.01	122.82	111.30
1	lw	228	ALA	N-CA-CB	-5.01	102.26	111.37
1	lR	168	PHE	O-C-N	-5.01	116.82	122.03
1	2j	133	TRP	N-CA-C	5.01	116.74	111.28
1	2n	32	PHE	CA-CB-CG	-5.01	108.79	113.80
1	2z	120	HIS	CB-CG-CD2	-5.01	124.69	131.20
1	2E	74	ASN	CB-CG-OD1	5.01	130.81	120.80
1	2L	11	VAL	CA-CB-CG1	5.01	118.91	110.40
1	2V	86	VAL	O-C-N	-5.01	117.77	123.18
1	3o	74	ASN	N-CA-C	5.01	117.39	111.33
1	3q	213	GLU	CA-C-N	5.01	126.99	120.28
1	3q	213	GLU	C-N-CA	5.01	126.99	120.28
1	3t	169	TYR	CA-CB-CG	-5.01	104.89	113.90
1	3u	90	PRO	CB-CA-C	5.01	115.95	111.40
1	3y	227	LYS	O-C-N	-5.01	117.67	123.33
1	3A	131	LYS	CB-CA-C	-5.01	102.48	110.79
1	3C	163	ASP	CA-C-N	5.01	127.30	120.54
1	3C	163	ASP	C-N-CA	5.01	127.30	120.54
1	3H	1	PRO	CA-C-N	-5.01	116.58	123.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	3H	1	PRO	C-N-CA	-5.01	116.58	123.14
1	3O	142	VAL	CA-C-N	5.01	126.95	120.44
1	3O	142	VAL	C-N-CA	5.01	126.95	120.44
1	42	30	LYS	CA-C-N	5.01	131.10	121.54
1	42	30	LYS	C-N-CA	5.01	131.10	121.54
1	49	162	ARG	CG-CD-NE	-5.01	100.98	112.00
1	4d	206	GLY	O-C-N	-5.01	116.76	121.77
1	4e	33	SER	O-C-N	-5.01	118.33	121.88
1	4h	103	ASP	CA-C-O	5.01	125.73	119.97
1	4o	173	ARG	NE-CZ-NH1	-5.01	116.49	121.50
1	4v	166	ASP	O-C-N	-5.01	116.91	122.07
1	4E	120	HIS	CB-CG-CD2	5.01	137.71	131.20
1	4H	163	ASP	O-C-N	-5.01	116.11	122.27
1	4P	154	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	4P	199	LYS	O-C-N	5.01	127.30	122.09
1	4Q	5	ASN	CA-CB-CG	-5.01	107.59	112.60
1	4T	199	LYS	N-CA-C	5.01	117.12	111.11
1	52	67	GLN	N-CA-C	5.01	118.65	112.54
1	5e	128	GLU	N-CA-C	5.01	116.43	111.07
1	5j	115	ILE	CA-CB-CG1	5.01	118.91	110.40
1	5v	42	ALA	N-CA-CB	-5.01	102.76	110.12
1	5z	59	VAL	CA-C-O	5.01	126.37	120.71
1	5A	197	ASP	O-C-N	-5.01	116.81	122.12
1	5P	125	PRO	CA-C-N	5.01	127.53	120.42
1	5P	125	PRO	C-N-CA	5.01	127.53	120.42
1	5T	5	ASN	CA-CB-CG	5.01	117.61	112.60
1	5Y	43	LEU	N-CA-C	5.01	117.12	111.11
1	67	24	VAL	N-CA-CB	5.01	116.07	110.51
1	6a	147	PRO	N-CA-C	5.01	122.78	112.47
1	6o	187	GLU	CA-C-O	5.01	125.14	119.18
1	6O	35	GLU	N-CA-C	5.01	118.49	112.38
1	6T	139	ASN	CA-C-O	-5.01	115.22	120.63
1	71	35	GLU	N-CA-CB	-5.01	103.08	110.49
1	73	34	PRO	CA-C-N	5.01	131.09	121.18
1	73	34	PRO	C-N-CA	5.01	131.09	121.18
1	74	37	ILE	CA-CB-CG2	5.01	119.01	110.50
1	79	133	TRP	NE1-CE2-CD2	5.01	113.91	107.40
1	7i	224	PRO	CA-C-O	-5.01	115.69	121.95
1	7n	62	HIS	CG-CD2-NE2	-5.01	102.19	107.20
1	7n	90	PRO	CA-C-O	5.01	126.78	121.32
1	7z	115	ILE	CA-C-N	5.01	125.51	120.00
1	7z	115	ILE	C-N-CA	5.01	125.51	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7C	124	ILE	O-C-N	-5.01	118.00	121.55
1	7C	181	VAL	CB-CA-C	-5.01	105.56	111.97
1	7J	53	ASN	CA-CB-CG	-5.01	107.59	112.60
1	7L	34	PRO	CB-CA-C	5.01	120.62	112.26
1	7M	16	SER	N-CA-C	5.01	116.00	109.64
1	7M	96	MET	CA-C-N	5.01	130.08	120.97
1	7M	96	MET	C-N-CA	5.01	130.08	120.97
1	7Q	141	ILE	CA-C-N	5.01	127.06	120.60
1	7Q	141	ILE	C-N-CA	5.01	127.06	120.60
1	7R	93	PRO	O-C-N	-5.01	114.15	122.36
1	7S	171	THR	CA-CB-CG2	5.01	119.01	110.50
1	7W	53	ASN	CA-CB-CG	-5.01	107.59	112.60
1	80	160	PRO	CB-CA-C	-5.01	105.20	111.56
1	81	177	ALA	CA-C-N	5.01	127.82	120.71
1	81	177	ALA	C-N-CA	5.01	127.82	120.71
1	85	133	TRP	CB-CG-CD1	5.01	134.41	126.90
1	8c	162	ARG	O-C-N	-5.01	116.81	122.12
1	8h	158	LYS	CA-C-O	5.01	125.42	119.56
1	8i	154	ARG	O-C-N	-5.01	117.67	123.33
1	8l	71	GLU	CB-CG-CD	-5.01	104.09	112.60
1	8m	108	THR	CA-CB-CG2	-5.01	101.99	110.50
1	8p	87	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	8q	121	ASN	O-C-N	-5.01	116.48	121.19
1	8D	167	ARG	O-C-N	-5.01	116.88	122.09
1	8F	104	ILE	CA-C-N	5.01	131.34	121.58
1	8F	104	ILE	C-N-CA	5.01	131.34	121.58
1	8P	159	GLU	N-CA-C	5.01	116.19	109.83
1	8Q	209	ALA	CA-C-O	5.01	126.66	121.15
1	8Z	166	ASP	N-CA-CB	5.01	117.27	110.01
1	94	49	PRO	CB-CA-C	5.01	119.82	111.56
1	9i	2	ILE	N-CA-C	-5.01	101.28	108.89
1	9p	11	VAL	CA-CB-CG1	5.01	118.91	110.40
1	9Q	61	GLY	CA-C-N	5.01	129.84	122.63
1	9Q	61	GLY	C-N-CA	5.01	129.84	122.63
1	a6	69	LEU	CA-C-O	5.01	126.08	120.82
1	ab	120	HIS	O-C-N	-5.01	115.93	122.59
1	ac	74	ASN	CA-CB-CG	5.01	117.61	112.60
1	ad	187	GLU	CA-C-O	5.01	125.70	119.79
1	am	45	GLU	CB-CA-C	-5.01	101.00	110.01
1	az	121	ASN	O-C-N	-5.01	116.81	121.72
1	aC	169	TYR	N-CA-C	5.01	116.82	111.36
1	aE	4	GLN	O-C-N	-5.01	115.93	122.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	aG	226	HIS	N-CA-C	-5.01	106.68	112.89
1	aK	55	MET	CA-C-N	5.01	126.99	120.28
1	aK	55	MET	C-N-CA	5.01	126.99	120.28
1	aW	140	LYS	CA-C-N	5.01	127.32	120.46
1	aW	140	LYS	C-N-CA	5.01	127.32	120.46
1	15	84	HIS	ND1-CG-CD2	-5.01	101.09	106.10
1	b2	98	GLU	O-C-N	-5.01	115.56	121.32
1	b2	120	HIS	CG-CD2-NE2	5.01	112.21	107.20
1	b6	142	VAL	N-CA-C	5.01	115.23	110.53
1	b8	67	GLN	CA-C-N	5.01	126.95	120.44
1	b8	67	GLN	C-N-CA	5.01	126.95	120.44
1	bk	4	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	bB	51	ASP	CA-CB-CG	-5.01	107.59	112.60
1	bB	77	ALA	N-CA-C	5.01	116.74	111.28
1	bF	129	ILE	CA-C-N	5.01	126.99	120.28
1	bF	129	ILE	C-N-CA	5.01	126.99	120.28
1	c3	111	LEU	N-CA-C	5.01	119.63	111.37
1	ci	178	SER	N-CA-C	5.01	121.47	110.80
1	cp	65	ALA	CA-C-O	-5.01	115.11	120.42
1	cz	140	LYS	N-CA-C	5.01	116.74	111.28
1	1f	18	ARG	NE-CZ-NH1	-5.01	116.49	121.50
1	1f	209	ALA	CA-C-N	5.01	130.08	120.97
1	1f	209	ALA	C-N-CA	5.01	130.08	120.97
1	cF	13	GLN	CA-C-N	5.01	128.77	121.31
1	cF	13	GLN	C-N-CA	5.01	128.77	121.31
1	cG	10	MET	CB-CA-C	5.01	118.57	111.86
1	cQ	56	LEU	N-CA-C	5.01	117.47	111.71
1	cQ	219	GLN	CA-C-O	5.01	126.63	120.92
1	1h	202	LEU	N-CA-C	5.01	117.47	111.71
1	d1	19	THR	O-C-N	5.01	127.43	122.12
1	d4	2	ILE	N-CA-C	-5.01	99.96	107.37
1	d4	52	LEU	CB-CA-C	5.01	119.36	110.85
1	d4	181	VAL	O-C-N	-5.01	117.00	121.91
1	d7	110	THR	O-C-N	-5.01	117.14	122.85
1	dd	8	GLY	CA-C-O	-5.01	113.55	119.46
1	de	10	MET	CG-SD-CE	-5.01	89.88	100.90
1	dj	154	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	dn	91	ILE	N-CA-C	5.01	119.75	109.34
1	dr	116	GLY	N-CA-C	5.01	119.18	112.77
1	dr	186	THR	CA-C-O	-5.01	115.24	120.55
1	dw	18	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	dI	139	ASN	OD1-CG-ND2	5.01	127.61	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dI	167	ARG	CG-CD-NE	-5.01	100.99	112.00
1	dM	199	LYS	N-CA-C	5.01	116.74	111.28
1	dP	210	THR	CA-C-N	5.01	126.99	120.28
1	dP	210	THR	C-N-CA	5.01	126.99	120.28
1	dR	59	VAL	CB-CA-C	-5.01	104.62	111.33
1	dR	197	ASP	CA-C-N	5.01	127.40	120.29
1	dR	197	ASP	C-N-CA	5.01	127.40	120.29
1	dY	204	ALA	O-C-N	-5.01	116.81	122.12
1	dZ	153	ILE	CA-C-N	5.01	130.75	121.94
1	dZ	153	ILE	C-N-CA	5.01	130.75	121.94
1	e3	16	SER	CA-C-N	5.01	124.31	118.85
1	e3	16	SER	C-N-CA	5.01	124.31	118.85
1	e3	142	VAL	CA-CB-CG2	-5.01	101.89	110.40
1	e8	91	ILE	N-CA-C	5.01	116.84	109.63
1	eg	142	VAL	CA-C-N	5.01	126.95	120.44
1	eg	142	VAL	C-N-CA	5.01	126.95	120.44
1	ek	47	ALA	N-CA-C	5.01	117.69	110.28
1	en	47	ALA	CA-C-N	5.01	129.04	121.03
1	en	47	ALA	C-N-CA	5.01	129.04	121.03
1	ep	211	LEU	CA-C-O	-5.01	115.11	120.42
1	et	189	LEU	N-CA-C	-5.01	107.83	114.04
1	1s	204	ALA	N-CA-C	5.01	116.43	111.07
1	eG	152	ASP	O-C-N	-5.01	115.93	122.39
1	eI	196	PRO	CA-C-N	5.01	127.25	120.44
1	eI	196	PRO	C-N-CA	5.01	127.25	120.44
1	eP	117	TRP	CB-CA-C	5.01	118.82	110.81
1	1t	154	ARG	N-CA-C	5.01	116.43	111.07
1	eZ	153	ILE	N-CA-C	5.01	115.56	109.30
1	f3	149	SER	N-CA-C	-5.01	102.38	110.14
1	f5	140	LYS	N-CA-C	5.01	116.74	111.28
1	fm	133	TRP	CB-CA-C	-5.01	101.54	110.70
1	fq	214	MET	CA-C-O	-5.01	115.24	120.55
1	fG	167	ARG	CA-C-N	5.01	126.95	120.44
1	fG	167	ARG	C-N-CA	5.01	126.95	120.44
1	fK	183	ASN	N-CA-C	5.01	116.74	111.28
1	fM	83	LEU	CA-C-O	5.01	125.86	120.55
1	fP	59	VAL	N-CA-C	5.01	116.84	109.63
1	fT	20	LEU	N-CA-C	5.01	116.74	111.28
1	fU	62	HIS	ND1-CE1-NE2	5.01	113.41	108.40
1	fV	167	ARG	NE-CZ-NH2	-5.01	114.69	119.20
1	fY	217	ALA	N-CA-CB	-5.01	103.20	110.36
1	g5	65	ALA	O-C-N	-5.01	116.91	122.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	c	3	VAL	CA-C-N	5.01	127.98	120.87
1	c	3	VAL	C-N-CA	5.01	127.98	120.87
1	d	4	GLN	N-CA-C	5.01	117.89	110.48
1	g	90	PRO	N-CA-CB	-5.01	99.25	102.65
1	l	126	VAL	CA-C-O	5.01	126.48	121.17
1	o	99	PRO	N-CA-C	5.01	118.36	110.50
1	z	125	PRO	CA-C-N	5.01	128.51	120.30
1	z	125	PRO	C-N-CA	5.01	128.51	120.30
1	B	4	GLN	OE1-CD-NE2	-5.01	117.59	122.60
1	C	81	ASP	CA-CB-CG	5.01	117.61	112.60
1	D	48	THR	CA-C-N	5.01	124.45	119.24
1	D	48	THR	C-N-CA	5.01	124.45	119.24
1	D	142	VAL	O-C-N	-5.01	117.01	121.87
1	G	226	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
1	H	11	VAL	N-CA-C	5.01	115.69	108.48
1	H	110	THR	O-C-N	-5.01	116.08	122.94
1	Q	111	LEU	CA-C-N	5.01	126.99	120.28
1	Q	111	LEU	C-N-CA	5.01	126.99	120.28
1	R	121	ASN	CB-CA-C	-5.01	103.83	110.34
1	R	171	THR	CA-C-N	5.01	127.49	120.28
1	R	171	THR	C-N-CA	5.01	127.49	120.28
1	T	164	TYR	CA-C-N	5.01	127.32	120.46
1	T	164	TYR	C-N-CA	5.01	127.32	120.46
1	gn	52	LEU	N-CA-C	5.00	116.42	111.07
1	gq	212	GLU	N-CA-C	-5.00	106.43	112.54
1	1D	210	THR	N-CA-C	5.00	117.49	110.23
1	gs	230	VAL	N-CA-C	5.00	115.22	110.42
1	gE	132	ARG	O-C-N	-5.00	116.81	122.12
1	gH	16	SER	N-CA-C	5.00	115.96	109.65
1	gM	100	ARG	O-C-N	-5.00	116.64	123.10
1	h5	58	THR	CA-C-O	5.00	125.52	119.31
1	1H	66	MET	O-C-N	-5.00	116.92	122.07
1	hm	8	GLY	CA-C-O	5.00	125.30	119.19
1	hq	125	PRO	N-CA-CB	5.00	108.51	103.25
1	hv	163	ASP	CB-CA-C	-5.00	103.02	110.88
1	hy	33	SER	CA-CB-OG	5.00	121.11	111.10
1	1K	218	CYS	CA-C-N	5.00	129.22	121.26
1	1K	218	CYS	C-N-CA	5.00	129.22	121.26
1	hR	1	PRO	CA-C-N	5.00	128.11	120.95
1	hR	1	PRO	C-N-CA	5.00	128.11	120.95
1	iv	159	GLU	CA-C-N	5.00	125.72	120.11
1	iv	159	GLU	C-N-CA	5.00	125.72	120.11

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	iD	45	GLU	N-CA-CB	5.00	117.35	109.69
1	iL	45	GLU	N-CA-CB	-5.00	102.55	110.06
1	j0	88	ALA	CA-C-O	5.00	125.39	119.48
1	j9	111	LEU	N-CA-C	5.00	117.11	111.11
1	jj	79	GLU	CA-C-O	5.00	126.08	120.82
1	1V	126	VAL	CA-C-N	5.00	125.50	119.94
1	1V	126	VAL	C-N-CA	5.00	125.50	119.94
1	jC	76	GLU	CA-C-O	5.00	125.73	120.42
1	jG	115	ILE	CA-CB-CG1	5.00	118.91	110.40
1	1Y	159	GLU	O-C-N	-5.00	115.82	121.43
1	1Y	201	ILE	O-C-N	-5.00	116.69	121.90
1	jV	68	MET	CG-SD-CE	-5.00	89.89	100.90
1	k2	95	GLN	CA-C-O	-5.00	115.05	120.81
1	k4	176	GLN	N-CA-C	5.00	118.23	110.17
1	kp	120	HIS	CA-CB-CG	5.00	118.81	113.80
1	ks	181	VAL	CA-C-N	5.00	127.30	120.54
1	ks	181	VAL	C-N-CA	5.00	127.30	120.54
1	22	2	ILE	O-C-N	-5.00	116.36	122.97
1	kX	169	TYR	CD1-CG-CD2	5.00	125.61	118.10
1	lg	23	TRP	CB-CG-CD1	-5.00	119.39	126.90
1	ln	183	ASN	N-CA-CB	5.00	117.27	110.01
1	lo	70	LYS	CA-C-O	5.00	126.08	120.82
1	lL	190	LEU	CA-C-N	5.00	128.38	120.47
1	lL	190	LEU	C-N-CA	5.00	128.38	120.47
1	2a	79	GLU	N-CA-CB	5.00	117.57	110.06
1	lM	142	VAL	N-CA-C	5.00	115.22	110.42
1	lR	226	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	2m	146	SER	CA-C-N	5.00	124.61	119.56
1	2m	146	SER	C-N-CA	5.00	124.61	119.56
1	2w	229	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	2x	42	ALA	CA-C-N	5.00	126.99	120.28
1	2x	42	ALA	C-N-CA	5.00	126.99	120.28
1	2z	205	LEU	N-CA-CB	-5.00	102.75	110.01
1	2H	105	ALA	O-C-N	-5.00	115.55	122.46
1	2U	127	GLY	CA-C-N	5.00	126.95	120.44
1	2U	127	GLY	C-N-CA	5.00	126.95	120.44
1	39	188	THR	CA-C-N	5.00	126.95	120.44
1	39	188	THR	C-N-CA	5.00	126.95	120.44
1	3A	229	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	3U	11	VAL	CA-C-O	-5.00	116.03	121.19
1	41	210	THR	CA-C-N	5.00	127.30	120.54
1	41	210	THR	C-N-CA	5.00	127.30	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	4g	120	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	4q	56	LEU	N-CA-C	5.00	119.24	113.18
1	4w	63	GLN	O-C-N	-5.00	116.81	122.12
1	4E	12	HIS	CA-CB-CG	-5.00	108.80	113.80
1	4I	133	TRP	CB-CA-C	-5.00	102.34	110.85
1	4T	119	THR	N-CA-CB	5.00	118.49	110.73
1	51	118	MET	CA-C-O	-5.00	115.25	120.55
1	5B	112	GLN	CB-CA-C	-5.00	102.80	110.81
1	5O	23	TRP	CD2-CE2-CZ2	-5.00	117.39	122.40
1	5T	35	GLU	CA-C-O	5.00	125.42	119.56
1	61	126	VAL	N-CA-C	5.00	118.08	111.17
1	63	88	ALA	CB-CA-C	-5.00	103.06	110.67
1	63	101	GLY	N-CA-C	5.00	118.74	112.73
1	63	195	ASN	OD1-CG-ND2	5.00	127.61	122.60
1	6i	122	PRO	CA-C-N	5.00	124.92	119.76
1	6i	122	PRO	C-N-CA	5.00	124.92	119.76
1	6i	130	TYR	CA-C-O	5.00	125.73	119.97
1	6B	100	ARG	CA-C-N	5.00	126.40	120.14
1	6B	100	ARG	C-N-CA	5.00	126.40	120.14
1	6D	160	PRO	CA-C-O	-5.00	115.75	121.56
1	6N	189	LEU	N-CA-C	-5.00	103.88	111.34
1	6W	91	ILE	CB-CA-C	-5.00	103.08	111.29
1	7p	170	LYS	O-C-N	-5.00	116.81	122.12
1	7I	82	ARG	NE-CZ-NH1	-5.00	116.50	121.50
1	7S	102	SER	N-CA-CB	5.00	118.04	110.28
1	82	84	HIS	CA-C-O	-5.00	115.77	121.28
1	88	170	LYS	N-CA-C	5.00	117.12	111.11
1	8s	99	PRO	N-CA-CB	-5.00	98.44	103.19
1	8B	65	ALA	O-C-N	-5.00	116.81	122.12
1	8M	178	SER	CA-C-O	-5.00	116.25	121.55
1	98	3	VAL	O-C-N	-5.00	117.36	123.02
1	9N	28	GLU	CA-C-N	5.00	126.99	120.28
1	9N	28	GLU	C-N-CA	5.00	126.99	120.28
1	a6	119	THR	OG1-CB-CG2	-5.00	99.29	109.30
1	an	229	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	14	196	PRO	CB-CA-C	5.00	119.82	111.56
1	aW	76	GLU	CA-C-N	5.00	126.99	120.28
1	aW	76	GLU	C-N-CA	5.00	126.99	120.28
1	b3	152	ASP	N-CA-C	5.00	116.73	111.28
1	ba	109	SER	CB-CA-C	5.00	119.11	110.45
1	17	5	ASN	OD1-CG-ND2	-5.00	117.59	122.60
1	bo	208	ALA	N-CA-C	5.00	118.88	112.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bw	66	MET	CA-CB-CG	-5.00	104.09	114.10
1	bw	196	PRO	CA-N-CD	-5.00	104.99	112.00
1	bW	176	GLN	CA-C-N	5.00	128.18	120.82
1	bW	176	GLN	C-N-CA	5.00	128.18	120.82
1	c6	119	THR	CA-C-O	5.00	124.56	119.05
1	c8	24	VAL	N-CA-C	5.00	115.72	110.62
1	cc	123	PRO	N-CA-CB	5.00	107.65	103.25
1	1f	57	ASN	CB-CA-C	-5.00	102.34	110.85
1	cC	77	ALA	N-CA-CB	5.00	117.48	110.12
1	cD	124	ILE	O-C-N	-5.00	115.39	121.10
1	cM	6	LEU	CA-C-O	5.00	127.05	118.94
1	cR	226	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	cS	210	THR	O-C-N	-5.00	116.65	122.81
1	d2	180	GLU	CA-C-O	-5.00	113.89	119.79
1	dc	155	GLN	CA-C-N	-5.00	114.01	121.87
1	dc	155	GLN	C-N-CA	-5.00	114.01	121.87
1	dd	19	THR	OG1-CB-CG2	-5.00	99.29	109.30
1	dg	74	ASN	N-CA-C	5.00	117.63	111.82
1	du	162	ARG	NE-CZ-NH2	-5.00	114.69	119.20
1	dw	162	ARG	CA-C-N	5.00	126.99	120.28
1	dw	162	ARG	C-N-CA	5.00	126.99	120.28
1	dx	179	GLN	CB-CA-C	-5.00	101.37	110.63
1	dA	184	TRP	CA-C-N	5.00	127.75	120.79
1	dA	184	TRP	C-N-CA	5.00	127.75	120.79
1	dE	114	GLN	OE1-CD-NE2	-5.00	117.59	122.60
1	dH	193	ASN	O-C-N	-5.00	115.86	122.42
1	dI	90	PRO	CB-CA-C	5.00	118.22	111.71
1	ed	45	GLU	CA-C-O	5.00	126.88	121.02
1	ev	152	ASP	CA-CB-CG	5.00	117.61	112.60
1	eD	148	THR	N-CA-CB	5.00	119.32	111.56
1	1w	81	ASP	CA-C-O	-5.00	115.11	120.42
1	fn	207	PRO	N-CA-CB	5.00	108.51	103.25
1	fs	103	ASP	CA-C-N	5.00	126.87	120.56
1	fs	103	ASP	C-N-CA	5.00	126.87	120.56
1	1x	206	GLY	CA-C-O	-5.00	114.36	121.52
1	fB	131	LYS	CA-C-N	5.00	126.99	120.28
1	fB	131	LYS	C-N-CA	5.00	126.99	120.28
1	fC	23	TRP	CA-C-N	5.00	127.06	120.60
1	fC	23	TRP	C-N-CA	5.00	127.06	120.60
1	1B	112	GLN	N-CA-C	5.00	116.74	111.28
1	K	77	ALA	CA-C-O	5.00	125.86	120.55
1	X	229	ARG	O-C-N	-5.00	116.36	122.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gf	90	PRO	N-CA-CB	5.00	107.52	103.32
1	gl	58	THR	CA-CB-OG1	5.00	117.11	109.60
1	gr	59	VAL	N-CA-C	5.00	116.03	109.58
1	gv	70	LYS	CA-C-N	5.00	126.98	120.28
1	gv	70	LYS	C-N-CA	5.00	126.98	120.28
1	gA	220	GLY	CA-C-N	5.00	127.53	120.42
1	gA	220	GLY	C-N-CA	5.00	127.53	120.42
1	gK	68	MET	CA-CB-CG	5.00	124.11	114.10
1	gM	48	THR	CA-C-O	-5.00	115.72	120.97
1	gQ	2	ILE	CA-CB-CG1	5.00	118.91	110.40
1	gS	172	LEU	N-CA-CB	-5.00	102.76	110.12
1	gT	101	GLY	CA-C-N	5.00	126.98	120.28
1	gT	101	GLY	C-N-CA	5.00	126.98	120.28
1	h9	228	ALA	N-CA-C	5.00	121.46	110.80
1	hf	74	ASN	O-C-N	-5.00	116.82	122.12
1	hi	40	PHE	CA-C-O	5.00	125.85	120.55
1	hi	156	GLY	CA-C-N	5.00	124.30	118.85
1	hi	156	GLY	C-N-CA	5.00	124.30	118.85
1	hi	227	LYS	N-CA-CB	5.00	118.92	110.92
1	hp	94	GLY	O-C-N	-5.00	116.28	122.54
1	hA	214	MET	O-C-N	-5.00	116.81	122.12
1	hI	75	GLU	CA-C-N	5.00	126.99	120.28
1	hI	75	GLU	C-N-CA	5.00	126.99	120.28
1	hI	169	TYR	O-C-N	-5.00	116.82	122.12
1	hP	23	TRP	CA-CB-CG	5.00	123.11	113.60
1	hT	229	ARG	CA-C-N	-5.00	116.38	122.93
1	hT	229	ARG	C-N-CA	-5.00	116.38	122.93
1	ih	104	ILE	CA-C-O	-5.00	113.65	119.85
1	iw	40	PHE	O-C-N	-5.00	116.92	122.07
1	iw	107	THR	CA-CB-OG1	-5.00	102.09	109.60
1	iM	8	GLY	O-C-N	-5.00	116.19	122.70
1	iP	77	ALA	CA-C-N	5.00	127.25	120.44
1	iP	77	ALA	C-N-CA	5.00	127.25	120.44
1	iR	115	ILE	CA-C-N	5.00	125.53	119.98
1	iR	115	ILE	C-N-CA	5.00	125.53	119.98
1	iR	132	ARG	NE-CZ-NH2	5.00	123.70	119.20
1	1S	50	GLN	N-CA-C	5.00	116.42	111.07
1	iT	32	PHE	CB-CA-C	-5.00	102.26	110.72
1	iV	26	VAL	CG1-CB-CG2	-5.00	99.79	110.80
1	j0	56	LEU	CA-C-O	5.00	125.85	120.55
1	1T	119	THR	CA-CB-OG1	5.00	117.11	109.60
1	j5	143	ARG	O-C-N	-5.00	116.82	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	j5	156	GLY	CA-C-N	5.00	124.49	119.19
1	j5	156	GLY	C-N-CA	5.00	124.49	119.19
1	j8	50	GLN	O-C-N	-5.00	116.81	122.12
1	jm	23	TRP	N-CA-C	5.00	116.73	111.28
1	jn	171	THR	CB-CA-C	-5.00	102.48	110.79
1	jo	102	SER	O-C-N	-5.00	115.56	122.46
1	jr	168	PHE	N-CA-C	5.00	117.38	111.33
1	js	166	ASP	N-CA-CB	-5.00	102.82	110.07
1	ju	23	TRP	CD2-CE3-CZ3	5.00	125.11	118.60
1	jD	207	PRO	CA-N-CD	-5.00	105.00	112.00
1	jF	18	ARG	O-C-N	5.00	127.30	122.09
1	jP	195	ASN	OD1-CG-ND2	-5.00	117.60	122.60
1	jR	70	LYS	O-C-N	-5.00	116.89	122.09
1	jY	131	LYS	O-C-N	-5.00	116.82	122.12
1	jZ	50	GLN	CA-C-N	5.00	126.98	120.28
1	jZ	50	GLN	C-N-CA	5.00	126.98	120.28
1	k0	114	GLN	CA-C-N	5.00	127.31	120.46
1	k0	114	GLN	C-N-CA	5.00	127.31	120.46
1	k2	191	VAL	N-CA-C	5.00	115.77	110.72
1	kb	226	HIS	CB-CG-ND1	5.00	130.21	122.70
1	kk	77	ALA	N-CA-C	5.00	116.73	111.28
1	kn	32	PHE	CA-CB-CG	-5.00	108.80	113.80
1	ko	69	LEU	CB-CA-C	5.00	118.73	110.88
1	ks	14	ALA	N-CA-CB	5.00	117.61	110.06
1	23	9	GLN	CG-CD-NE2	5.00	123.91	116.40
1	23	163	ASP	CA-CB-CG	-5.00	107.60	112.60
1	kL	35	GLU	N-CA-C	5.00	118.15	111.75
1	kS	163	ASP	CA-C-N	5.00	126.94	120.44
1	kS	163	ASP	C-N-CA	5.00	126.94	120.44
1	l0	4	GLN	CA-C-N	5.00	127.48	120.28
1	l0	4	GLN	C-N-CA	5.00	127.48	120.28
1	l4	169	TYR	CG-CD2-CE2	5.00	128.71	121.20
1	ln	13	GLN	CB-CG-CD	5.00	121.11	112.60
1	lp	36	VAL	O-C-N	-5.00	116.94	121.94
1	lq	126	VAL	N-CA-C	5.00	117.30	111.05
1	ls	214	MET	CA-C-O	5.00	125.72	119.97
1	lB	153	ILE	N-CA-C	5.00	115.49	108.89
1	29	160	PRO	N-CA-CB	5.00	108.50	103.25
1	lE	104	ILE	CA-CB-CG1	5.00	118.91	110.40
1	lG	208	ALA	N-CA-C	5.00	119.47	113.17
1	lL	54	THR	CA-C-N	5.00	126.98	120.28
1	lL	54	THR	C-N-CA	5.00	126.98	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	lN	72	THR	N-CA-CB	5.00	117.27	110.01
1	2b	51	ASP	CA-C-N	5.00	126.94	120.44
1	2b	51	ASP	C-N-CA	5.00	126.94	120.44
1	2S	15	ILE	CA-CB-CG1	5.00	118.91	110.40
1	2T	68	MET	N-CA-C	5.00	117.47	111.71
1	2Z	229	ARG	CA-C-N	5.00	127.39	120.49
1	2Z	229	ARG	C-N-CA	5.00	127.39	120.49
1	3h	20	LEU	N-CA-C	5.00	117.62	111.82
1	3i	81	ASP	CA-C-N	5.00	126.94	120.44
1	3i	81	ASP	C-N-CA	5.00	126.94	120.44
1	3u	189	LEU	N-CA-C	5.00	116.73	111.28
1	3v	68	MET	CB-CA-C	-5.00	102.48	110.79
1	3x	6	LEU	CA-C-N	5.00	130.44	122.94
1	3x	6	LEU	C-N-CA	5.00	130.44	122.94
1	3A	50	GLN	CA-C-N	5.00	127.23	120.38
1	3A	50	GLN	C-N-CA	5.00	127.23	120.38
1	3I	8	GLY	CA-C-N	5.00	128.79	120.94
1	3I	8	GLY	C-N-CA	5.00	128.79	120.94
1	3N	133	TRP	CZ3-CH2-CZ2	-5.00	115.00	121.50
1	3S	52	LEU	N-CA-C	5.00	116.81	111.36
1	3U	80	TRP	N-CA-CB	5.00	117.39	109.94
1	41	27	VAL	CA-C-O	5.00	125.87	120.47
1	41	182	LYS	N-CA-C	5.00	116.73	111.28
1	43	22	ALA	N-CA-C	5.00	116.42	111.07
1	46	145	TYR	CA-C-O	5.00	125.48	119.43
1	47	20	LEU	CA-C-N	5.00	127.40	120.29
1	47	20	LEU	C-N-CA	5.00	127.40	120.29
1	4m	125	PRO	CA-C-N	5.00	127.32	120.46
1	4m	125	PRO	C-N-CA	5.00	127.32	120.46
1	4t	225	GLY	O-C-N	5.00	128.35	123.35
1	4u	22	ALA	CB-CA-C	5.00	118.81	110.90
1	4w	95	GLN	CB-CG-CD	5.00	121.11	112.60
1	4A	203	LYS	N-CA-C	5.00	116.42	111.07
1	4B	87	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	4G	159	GLU	CA-C-O	5.00	124.87	120.02
1	4P	224	PRO	CA-C-O	-5.00	115.87	121.32
1	4V	229	ARG	CA-C-N	5.00	130.98	121.97
1	4V	229	ARG	C-N-CA	5.00	130.98	121.97
1	55	70	LYS	CA-C-N	5.00	129.14	120.58
1	55	70	LYS	C-N-CA	5.00	129.14	120.58
1	5b	140	LYS	O-C-N	-5.00	116.82	122.12
1	5b	143	ARG	O-C-N	-5.00	116.45	122.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5d	36	VAL	O-C-N	5.00	126.72	121.87
1	5h	95	GLN	CA-C-N	5.00	129.33	120.87
1	5h	95	GLN	C-N-CA	5.00	129.33	120.87
1	5n	87	HIS	CG-CD2-NE2	5.00	112.20	107.20
1	5w	1	PRO	CA-N-CD	-5.00	104.99	112.00
1	5B	126	VAL	O-C-N	-5.00	117.02	121.87
1	5C	177	ALA	CA-C-N	5.00	128.79	120.94
1	5C	177	ALA	C-N-CA	5.00	128.79	120.94
1	5F	50	GLN	N-CA-CB	-5.00	102.77	110.12
1	5G	13	GLN	CA-C-N	5.00	127.82	120.71
1	5G	13	GLN	C-N-CA	5.00	127.82	120.71
1	5J	137	GLY	O-C-N	-5.00	117.39	122.19
1	5R	99	PRO	CA-C-N	5.00	132.09	122.03
1	5R	99	PRO	C-N-CA	5.00	132.09	122.03
1	5U	203	LYS	O-C-N	-5.00	116.44	122.15
1	69	98	GLU	O-C-N	-5.00	116.03	121.53
1	6f	141	ILE	N-CA-CB	-5.00	104.70	110.55
1	6h	113	GLU	CB-CA-C	5.00	118.73	110.88
1	6n	191	VAL	CA-C-O	5.00	123.71	118.96
1	6y	146	SER	CA-C-N	5.00	126.09	119.84
1	6y	146	SER	C-N-CA	5.00	126.09	119.84
1	6E	148	THR	CA-CB-CG2	-5.00	101.99	110.50
1	6J	149	SER	CA-CB-OG	5.00	121.11	111.10
1	6J	203	LYS	O-C-N	-5.00	116.09	122.34
1	6R	34	PRO	CB-CA-C	-5.00	102.65	111.21
1	6S	68	MET	N-CA-CB	5.00	117.57	110.16
1	73	24	VAL	CA-C-O	5.00	125.87	120.47
1	73	51	ASP	CA-C-O	5.00	125.85	120.55
1	79	209	ALA	CA-C-N	5.00	127.95	120.90
1	79	209	ALA	C-N-CA	5.00	127.95	120.90
1	7g	82	ARG	CA-C-N	5.00	129.07	120.72
1	7g	82	ARG	C-N-CA	5.00	129.07	120.72
1	7j	132	ARG	CA-C-N	5.00	126.99	120.28
1	7j	132	ARG	C-N-CA	5.00	126.99	120.28
1	7k	25	LYS	CA-C-N	5.00	126.86	120.56
1	7k	25	LYS	C-N-CA	5.00	126.86	120.56
1	7k	120	HIS	CG-CD2-NE2	5.00	112.20	107.20
1	7n	74	ASN	CA-C-N	5.00	127.25	120.65
1	7n	74	ASN	C-N-CA	5.00	127.25	120.65
1	7n	79	GLU	N-CA-C	5.00	117.46	111.71
1	7x	117	TRP	CA-C-N	5.00	127.92	120.31
1	7x	117	TRP	C-N-CA	5.00	127.92	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	7x	180	GLU	N-CA-CB	-5.00	102.81	110.07
1	7C	10	MET	CB-CA-C	5.00	117.94	110.08
1	7L	60	GLY	CA-C-O	-5.00	114.73	120.09
1	87	29	GLU	N-CA-C	5.00	117.62	111.82
1	8a	12	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	8c	217	ALA	O-C-N	-5.00	116.96	122.86
1	8d	108	THR	CA-C-O	5.00	125.20	119.35
1	8g	77	ALA	CA-C-O	5.00	126.07	120.82
1	8n	5	ASN	CA-C-O	5.00	125.42	119.67
1	8o	121	ASN	CB-CG-ND2	5.00	123.91	116.40
1	8q	81	ASP	O-C-N	-5.00	116.12	122.27
1	8y	134	ILE	CA-C-O	5.00	126.15	120.85
1	8A	42	ALA	O-C-N	-5.00	116.37	122.22
1	8I	4	GLN	OE1-CD-NE2	-5.00	117.60	122.60
1	8N	47	ALA	N-CA-C	5.00	117.49	110.23
1	96	223	GLY	CA-C-N	5.00	126.09	119.84
1	96	223	GLY	C-N-CA	5.00	126.09	119.84
1	9j	103	ASP	CA-C-N	5.00	127.31	120.46
1	9j	103	ASP	C-N-CA	5.00	127.31	120.46
1	9k	182	LYS	N-CA-C	5.00	116.73	111.28
1	9l	156	GLY	CA-C-O	-5.00	114.36	121.52
1	9s	61	GLY	O-C-N	-5.00	116.81	122.91
1	9t	162	ARG	N-CA-C	5.00	116.42	111.07
1	9u	181	VAL	CA-C-N	5.00	126.98	120.28
1	9u	181	VAL	C-N-CA	5.00	126.98	120.28
1	9x	96	MET	N-CA-C	-5.00	107.17	114.12
1	9x	108	THR	O-C-N	-5.00	115.74	122.19
1	9K	201	ILE	CA-C-O	5.00	126.47	121.17
1	Y	200	THR	CA-C-N	5.00	127.05	120.60
1	Y	200	THR	C-N-CA	5.00	127.05	120.60
1	a1	168	PHE	N-CA-CB	-5.00	102.55	110.06
1	ae	123	PRO	N-CA-CB	-5.00	99.00	103.35
1	af	38	PRO	N-CA-C	-5.00	107.02	113.57
1	aw	112	GLN	N-CA-C	5.00	116.73	111.28
1	aI	139	ASN	O-C-N	-5.00	116.81	122.12
1	aM	150	ILE	CA-C-N	5.00	127.39	120.29
1	aM	150	ILE	C-N-CA	5.00	127.39	120.29
1	aT	29	GLU	O-C-N	-5.00	114.90	122.20
1	aX	117	TRP	CA-C-N	5.00	126.98	120.28
1	aX	117	TRP	C-N-CA	5.00	126.98	120.28
1	15	114	GLN	OE1-CD-NE2	-5.00	117.60	122.60
1	aY	57	ASN	CA-C-O	5.00	125.79	120.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	bg	203	LYS	N-CA-C	5.00	118.53	112.23
1	bp	193	ASN	OD1-CG-ND2	5.00	127.60	122.60
1	bq	73	ILE	CA-CB-CG1	-5.00	101.89	110.40
1	by	26	VAL	CA-C-N	5.00	127.32	120.46
1	by	26	VAL	C-N-CA	5.00	127.32	120.46
1	bC	197	ASP	N-CA-C	-5.00	105.53	111.69
1	bE	226	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	bK	12	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	c3	216	THR	CA-CB-OG1	5.00	117.11	109.60
1	1c	197	ASP	O-C-N	-5.00	115.47	122.37
1	c9	10	MET	N-CA-CB	5.00	117.89	110.29
1	cf	30	LYS	CB-CA-C	-5.00	102.64	110.85
1	1d	75	GLU	N-CA-C	5.00	117.62	111.82
1	cO	133	TRP	CB-CA-C	5.00	118.81	110.90
1	cX	90	PRO	CB-CA-C	-5.00	104.98	111.39
1	cZ	72	THR	CA-C-N	5.00	126.86	120.56
1	cZ	72	THR	C-N-CA	5.00	126.86	120.56
1	d4	31	ALA	O-C-N	-5.00	115.93	122.59
1	d5	46	GLY	CA-C-O	5.00	126.05	119.69
1	d5	72	THR	O-C-N	-5.00	116.92	122.07
1	da	85	PRO	N-CA-CB	5.00	108.50	103.25
1	dd	77	ALA	CB-CA-C	-5.00	102.48	110.79
1	dg	90	PRO	CA-C-N	5.00	127.86	120.91
1	dg	90	PRO	C-N-CA	5.00	127.86	120.91
1	dl	141	ILE	CA-C-N	5.00	127.32	120.46
1	dl	141	ILE	C-N-CA	5.00	127.32	120.46
1	dn	4	GLN	CA-C-N	5.00	131.10	121.54
1	dn	4	GLN	C-N-CA	5.00	131.10	121.54
1	dt	12	HIS	N-CA-CB	5.00	117.89	110.29
1	dx	113	GLU	CA-C-N	5.00	127.30	120.54
1	dx	113	GLU	C-N-CA	5.00	127.30	120.54
1	dz	229	ARG	CG-CD-NE	-5.00	100.99	112.00
1	1m	185	MET	CA-C-O	5.00	125.72	120.42
1	dP	100	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	dT	61	GLY	CA-C-O	-5.00	115.45	122.51
1	dV	149	SER	O-C-N	-5.00	116.50	122.65
1	e1	118	MET	N-CA-C	5.00	116.73	111.28
1	e3	82	ARG	N-CA-C	-5.00	105.83	111.28
1	e8	87	HIS	N-CA-C	5.00	117.69	110.28
1	ec	35	GLU	O-C-N	-5.00	115.78	122.43
1	eh	191	VAL	CA-C-O	5.00	125.66	120.25
1	en	24	VAL	N-CA-C	5.00	119.75	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	eu	135	ILE	CA-C-O	-5.00	115.55	120.85
1	eG	18	ARG	N-CA-C	5.00	116.73	111.28
1	eH	19	THR	CB-CA-C	-5.00	103.02	110.88
1	eQ	42	ALA	O-C-N	-5.00	116.82	122.12
1	eS	41	SER	CA-CB-OG	5.00	121.11	111.10
1	eX	122	PRO	N-CA-CB	5.00	108.10	102.60
1	f9	89	GLY	CA-C-O	-5.00	114.36	121.52
1	fd	21	ASN	N-CA-C	5.00	116.81	111.36
1	ff	42	ALA	CA-C-N	5.00	126.94	120.44
1	ff	42	ALA	C-N-CA	5.00	126.94	120.44
1	fj	135	ILE	CB-CA-C	-5.00	105.39	112.14
1	fn	68	MET	CG-SD-CE	-5.00	89.89	100.90
1	fp	201	ILE	CB-CA-C	-5.00	105.46	112.02
1	fr	100	ARG	NE-CZ-NH2	-5.00	114.70	119.20
1	fy	135	ILE	CA-C-O	-5.00	115.22	120.57
1	fB	85	PRO	CA-C-N	5.00	130.98	121.97
1	fB	85	PRO	C-N-CA	5.00	130.98	121.97
1	fD	84	HIS	CA-CB-CG	5.00	118.80	113.80
1	1y	4	GLN	N-CA-C	5.00	121.46	110.80
1	1y	35	GLU	N-CA-CB	5.00	118.00	110.30
1	fF	63	GLN	OE1-CD-NE2	-5.00	117.60	122.60
1	fH	22	ALA	N-CA-CB	-5.00	102.75	110.16
1	fK	73	ILE	CA-C-O	-5.00	115.87	121.17
1	1z	48	THR	CA-C-N	5.00	126.09	119.84
1	1z	48	THR	C-N-CA	5.00	126.09	119.84
1	g4	182	LYS	N-CA-CB	-5.00	102.59	110.30
1	g5	52	LEU	CA-C-N	5.00	126.98	120.28
1	g5	52	LEU	C-N-CA	5.00	126.98	120.28
1	j	32	PHE	CA-CB-CG	-5.00	108.80	113.80
1	w	167	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	B	160	PRO	CA-C-N	5.00	126.98	120.28
1	B	160	PRO	C-N-CA	5.00	126.98	120.28
1	C	117	TRP	CB-CG-CD2	5.00	133.81	126.80
1	F	188	THR	CA-C-N	5.00	131.10	121.54
1	F	188	THR	C-N-CA	5.00	131.10	121.54
1	I	107	THR	N-CA-C	-5.00	107.25	113.55
1	K	148	THR	OG1-CB-CG2	-5.00	99.29	109.30
1	P	19	THR	O-C-N	5.00	127.22	122.07
1	U	177	ALA	N-CA-C	5.00	117.68	110.28
1	6	211	LEU	N-CA-C	5.00	116.81	111.36
1	9	51	ASP	CA-C-N	5.00	127.49	120.28
1	9	51	ASP	C-N-CA	5.00	127.49	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	gc	199	LYS	O-C-N	-5.00	116.82	122.12
1	gn	12	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	go	191	VAL	N-CA-C	5.00	115.22	110.42
1	gq	44	SER	N-CA-C	5.00	119.52	112.72
1	gy	10	MET	CG-SD-CE	-5.00	89.90	100.90
1	gz	103	ASP	CB-CA-C	-5.00	103.03	110.88
1	1E	16	SER	CB-CA-C	-5.00	103.16	109.31
1	gY	53	ASN	O-C-N	-5.00	116.82	122.12
1	gY	163	ASP	CA-CB-CG	-5.00	107.60	112.60
1	gZ	19	THR	O-C-N	-5.00	116.12	122.27
1	h0	200	THR	CA-CB-CG2	5.00	119.00	110.50
1	h3	65	ALA	N-CA-C	5.00	116.73	111.28
1	h3	145	TYR	O-C-N	-5.00	116.34	122.34
1	h6	71	GLU	N-CA-C	5.00	116.73	111.28
1	hg	54	THR	CA-C-N	5.00	127.29	120.54
1	hg	54	THR	C-N-CA	5.00	127.29	120.54
1	hh	81	ASP	CA-CB-CG	-5.00	107.60	112.60
1	hh	96	MET	N-CA-CB	5.00	118.21	110.46
1	hu	3	VAL	CB-CA-C	-5.00	104.28	112.03
1	hv	139	ASN	CA-CB-CG	5.00	117.60	112.60
1	hw	23	TRP	CB-CA-C	5.00	119.04	110.74
1	hx	211	LEU	CA-C-N	5.00	126.94	120.44
1	hx	211	LEU	C-N-CA	5.00	126.94	120.44
1	hA	214	MET	CB-CA-C	-5.00	102.49	110.79
1	hE	186	THR	CA-CB-CG2	5.00	119.00	110.50
1	hM	134	ILE	CA-CB-CG1	5.00	118.90	110.40
1	hT	122	PRO	N-CD-CG	5.00	109.80	103.80
1	hU	190	LEU	CA-C-N	5.00	126.96	120.56
1	hU	190	LEU	C-N-CA	5.00	126.96	120.56
1	hX	63	GLN	N-CA-C	5.00	116.73	111.28
1	hZ	27	VAL	N-CA-C	5.00	115.77	110.72
1	i3	70	LYS	N-CA-C	5.00	117.62	111.82
1	i6	120	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	id	76	GLU	N-CA-C	5.00	116.73	111.28
1	ii	88	ALA	CA-C-O	5.00	127.01	121.56
1	1P	197	ASP	CA-C-O	-5.00	115.57	121.07
1	iB	226	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	iN	190	LEU	O-C-N	-5.00	116.89	122.09
1	iP	128	GLU	CB-CG-CD	5.00	121.10	112.60
1	iQ	128	GLU	N-CA-CB	-5.00	102.60	110.30
1	iQ	132	ARG	CA-C-O	5.00	125.85	120.55
1	1S	64	ALA	N-CA-CB	5.00	117.47	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1S	170	LYS	N-CA-C	5.00	116.73	111.28
1	j2	144	MET	O-C-N	5.00	129.03	122.33
1	j3	7	GLN	CB-CA-C	5.00	118.43	111.63
1	j3	134	ILE	N-CA-C	5.00	115.72	110.62
1	j6	120	HIS	CA-C-N	-5.00	115.86	122.56
1	j6	120	HIS	C-N-CA	-5.00	115.86	122.56
1	jk	67	GLN	N-CA-C	-5.00	105.91	111.36
1	1V	52	LEU	O-C-N	-5.00	116.82	122.12
1	jo	52	LEU	CA-C-N	5.00	127.23	120.38
1	jo	52	LEU	C-N-CA	5.00	127.23	120.38
1	jo	193	ASN	CA-C-O	5.00	125.27	119.32
1	jB	97	ARG	N-CA-C	-5.00	103.34	110.59
1	1X	183	ASN	OD1-CG-ND2	-5.00	117.60	122.60
1	jQ	87	HIS	CG-CD2-NE2	5.00	112.20	107.20
1	k6	175	GLU	O-C-N	-5.00	116.72	122.87
1	k7	154	ARG	CB-CG-CD	5.00	122.80	111.30
1	20	73	ILE	O-C-N	-5.00	116.82	121.87
1	kl	102	SER	CA-C-N	5.00	127.91	120.31
1	kl	102	SER	C-N-CA	5.00	127.91	120.31
1	kr	18	ARG	NE-CZ-NH2	5.00	123.70	119.20
1	kH	193	ASN	OD1-CG-ND2	-5.00	117.60	122.60
1	kH	208	ALA	CA-C-N	5.00	128.20	121.05
1	kH	208	ALA	C-N-CA	5.00	128.20	121.05
1	24	87	HIS	O-C-N	-5.00	116.42	122.82
1	25	131	LYS	N-CA-C	5.00	117.38	111.33
1	kY	13	GLN	OE1-CD-NE2	-5.00	117.60	122.60
1	kY	191	VAL	CA-C-N	5.00	127.91	120.31
1	kY	191	VAL	C-N-CA	5.00	127.91	120.31
1	l2	62	HIS	CB-CG-CD2	-5.00	124.70	131.20
1	l7	225	GLY	CA-C-O	5.00	129.27	120.57
1	l9	73	ILE	CA-C-O	-5.00	115.75	120.95
1	lh	58	THR	CA-CB-OG1	5.00	117.10	109.60
1	lj	215	MET	CB-CA-C	5.00	120.44	109.99
1	lk	33	SER	O-C-N	-5.00	115.49	121.39
1	28	167	ARG	NE-CZ-NH2	-5.00	114.70	119.20
1	lJ	139	ASN	CB-CA-C	5.00	119.09	110.79
1	lM	138	LEU	N-CA-C	5.00	116.81	111.36
1	2d	133	TRP	N-CA-CB	5.00	117.47	110.12
1	2j	32	PHE	CB-CG-CD2	5.00	129.20	120.70
1	2A	173	ARG	CA-C-O	5.00	125.72	119.97
1	2B	91	ILE	CA-C-N	5.00	128.28	120.68
1	2B	91	ILE	C-N-CA	5.00	128.28	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	2M	146	SER	N-CA-C	5.00	116.68	109.48
1	2O	60	GLY	O-C-N	-5.00	116.20	122.70
1	34	84	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	3d	173	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	3e	9	GLN	CA-C-O	5.00	127.01	121.56
1	3m	80	TRP	CA-C-N	5.00	126.94	120.44
1	3m	80	TRP	C-N-CA	5.00	126.94	120.44
1	3p	97	ARG	CB-CG-CD	5.00	122.80	111.30
1	3w	205	LEU	N-CA-C	5.00	116.73	111.28
1	3x	4	GLN	CA-C-O	-5.00	115.25	120.55
1	3E	14	ALA	N-CA-C	5.00	118.04	110.64
1	3G	84	HIS	CA-C-O	-5.00	114.38	120.08
1	3G	93	PRO	N-CD-CG	5.00	110.70	103.20
1	3M	28	GLU	O-C-N	-5.00	116.92	122.07
1	3V	150	ILE	CA-CB-CG1	5.00	118.90	110.40
1	3X	133	TRP	CA-C-N	5.00	127.05	120.60
1	3X	133	TRP	C-N-CA	5.00	127.05	120.60
1	4d	125	PRO	CA-C-N	5.00	127.05	120.60
1	4d	125	PRO	C-N-CA	5.00	127.05	120.60
1	4m	147	PRO	N-CA-CB	5.00	108.50	103.25
1	4o	142	VAL	CB-CA-C	-5.00	105.57	111.97
1	4z	48	THR	CA-C-N	5.00	126.09	119.84
1	4z	48	THR	C-N-CA	5.00	126.09	119.84
1	4G	181	VAL	CA-C-O	-5.00	115.01	120.96
1	4H	160	PRO	CA-C-O	-5.00	115.83	121.43
1	4H	220	GLY	CA-C-N	5.00	127.30	120.35
1	4H	220	GLY	C-N-CA	5.00	127.30	120.35
1	4J	56	LEU	N-CA-C	5.00	117.46	111.71
1	4Q	27	VAL	CA-CB-CG1	5.00	118.90	110.40
1	4U	125	PRO	N-CA-CB	5.00	106.03	102.28
1	4V	101	GLY	CA-C-N	5.00	126.98	120.28
1	4V	101	GLY	C-N-CA	5.00	126.98	120.28
1	4X	84	HIS	CA-C-N	5.00	125.28	119.93
1	4X	84	HIS	C-N-CA	5.00	125.28	119.93
1	51	130	TYR	O-C-N	-5.00	116.82	122.12
1	58	30	LYS	N-CA-CB	-5.00	102.97	111.17
1	5j	71	GLU	N-CA-CB	5.00	117.47	110.12
1	5s	182	LYS	CA-C-N	5.00	127.29	120.54
1	5s	182	LYS	C-N-CA	5.00	127.29	120.54
1	5w	170	LYS	CA-CB-CG	5.00	124.10	114.10
1	5z	190	LEU	CD1-CG-CD2	5.00	121.81	110.80
1	5N	136	LEU	CA-C-O	5.00	125.85	120.55

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	5V	164	TYR	CA-C-N	5.00	126.86	120.56
1	5V	164	TYR	C-N-CA	5.00	126.86	120.56
1	6e	56	LEU	CB-CA-C	5.00	118.80	110.90
1	6k	226	HIS	CA-CB-CG	-5.00	108.80	113.80
1	6s	51	ASP	CA-C-N	5.00	126.94	120.44
1	6s	51	ASP	C-N-CA	5.00	126.94	120.44
1	6u	79	GLU	CB-CG-CD	-5.00	104.10	112.60
1	6D	211	LEU	N-CA-C	5.00	117.62	111.82
1	6F	82	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	6H	188	THR	OG1-CB-CG2	-5.00	99.30	109.30
1	6J	58	THR	CA-C-N	5.00	128.80	121.80
1	6J	58	THR	C-N-CA	5.00	128.80	121.80
1	6K	44	SER	N-CA-C	5.00	119.36	113.16
1	6W	206	GLY	CA-C-N	5.00	124.78	119.28
1	6W	206	GLY	C-N-CA	5.00	124.78	119.28
1	6X	183	ASN	O-C-N	-5.00	116.45	122.15
1	6Y	228	ALA	CA-C-O	5.00	126.03	120.63
1	79	112	GLN	N-CA-C	5.00	117.46	111.71
1	7c	105	ALA	CA-C-N	5.00	130.81	122.16
1	7c	105	ALA	C-N-CA	5.00	130.81	122.16
1	7e	78	ALA	N-CA-C	5.00	116.42	111.07
1	7j	156	GLY	O-C-N	-5.00	116.77	121.77
1	7m	20	LEU	N-CA-C	5.00	116.73	111.28
1	7r	132	ARG	CG-CD-NE	-5.00	101.00	112.00
1	7E	73	ILE	CA-C-N	5.00	126.98	120.28
1	7E	73	ILE	C-N-CA	5.00	126.98	120.28
1	7E	100	ARG	CA-C-N	5.00	125.53	119.98
1	7E	100	ARG	C-N-CA	5.00	125.53	119.98
1	7H	172	LEU	CA-C-N	5.00	126.94	120.44
1	7H	172	LEU	C-N-CA	5.00	126.94	120.44
1	7J	219	GLN	CA-C-O	5.00	125.51	119.31
1	7T	194	ALA	O-C-N	-5.00	117.15	122.85
1	82	16	SER	CA-C-N	5.00	124.49	119.19
1	82	16	SER	C-N-CA	5.00	124.49	119.19
1	85	153	ILE	N-CA-C	5.00	115.86	110.21
1	8d	17	PRO	CB-CA-C	5.00	120.01	112.21
1	8h	226	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	8q	86	VAL	N-CA-C	5.00	116.12	109.37
1	8t	127	GLY	CA-C-N	5.00	129.13	120.58
1	8t	127	GLY	C-N-CA	5.00	129.13	120.58
1	8w	186	THR	N-CA-C	5.00	117.62	111.82
1	8G	176	GLN	CG-CD-OE1	-5.00	110.80	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	8H	40	PHE	CB-CA-C	-5.00	102.49	110.79
1	8I	205	LEU	CA-C-O	5.00	125.67	119.12
1	8L	214	MET	N-CA-CB	5.00	117.32	110.07
1	8O	123	PRO	CA-C-N	-5.00	115.46	123.46
1	8O	123	PRO	C-N-CA	-5.00	115.46	123.46
1	8O	193	ASN	CA-C-O	5.00	125.41	119.56
1	8R	75	GLU	CB-CG-CD	5.00	121.10	112.60
1	8S	190	LEU	N-CA-C	5.00	116.42	111.07
1	8V	26	VAL	CA-CB-CG1	5.00	118.90	110.40
1	8V	132	ARG	CD-NE-CZ	5.00	131.40	124.40
1	8X	10	MET	CA-C-N	5.00	129.55	123.10
1	8X	10	MET	C-N-CA	5.00	129.55	123.10
1	92	146	SER	N-CA-C	5.00	116.79	109.84
1	94	136	LEU	N-CA-C	5.00	116.73	111.28
1	95	152	ASP	O-C-N	-5.00	116.12	122.27
1	9c	181	VAL	CA-C-N	5.00	127.29	120.54
1	9c	181	VAL	C-N-CA	5.00	127.29	120.54
1	9f	228	ALA	N-CA-C	5.00	117.48	110.23
1	9y	54	THR	CA-C-N	5.00	126.98	120.28
1	9y	54	THR	C-N-CA	5.00	126.98	120.28
1	9A	159	GLU	CA-C-N	5.00	124.99	119.89
1	9A	159	GLU	C-N-CA	5.00	124.99	119.89
1	9E	177	ALA	O-C-N	-5.00	116.42	122.82
1	9J	150	ILE	CA-CB-CG1	5.00	118.90	110.40
1	9O	114	GLN	N-CA-C	5.00	117.12	111.02
1	9S	214	MET	CA-C-O	5.00	126.25	120.90
1	9S	225	GLY	CA-C-N	5.00	127.24	120.44
1	9S	225	GLY	C-N-CA	5.00	127.24	120.44
1	9W	71	GLU	N-CA-C	5.00	116.73	111.28
1	9X	89	GLY	CA-C-N	5.00	124.99	119.89
1	9X	89	GLY	C-N-CA	5.00	124.99	119.89
1	9X	107	THR	CA-CB-CG2	-5.00	102.00	110.50
1	9Y	164	TYR	CA-C-N	5.00	127.05	120.60
1	9Y	164	TYR	C-N-CA	5.00	127.05	120.60
1	a4	187	GLU	N-CA-C	5.00	116.73	111.28
1	a8	213	GLU	O-C-N	-5.00	115.73	122.23
1	ae	147	PRO	CB-CA-C	5.00	117.93	110.88
1	ah	63	GLN	O-C-N	-5.00	116.50	122.20
1	11	18	ARG	CA-C-O	5.00	125.85	120.55
1	al	194	ALA	N-CA-C	5.00	117.55	110.50
1	as	205	LEU	CA-C-N	5.00	129.72	121.87
1	as	205	LEU	C-N-CA	5.00	129.72	121.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	au	50	GLN	CA-C-O	-5.00	115.23	120.63
1	aO	223	GLY	CA-C-N	5.00	126.09	119.84
1	aO	223	GLY	C-N-CA	5.00	126.09	119.84
1	aQ	51	ASP	CA-C-O	5.00	126.07	120.82
1	aR	105	ALA	CA-C-O	5.00	125.53	119.38
1	aV	162	ARG	CA-C-N	5.00	126.98	120.28
1	aV	162	ARG	C-N-CA	5.00	126.98	120.28
1	b0	114	GLN	CG-CD-NE2	-5.00	108.90	116.40
1	b2	84	HIS	ND1-CE1-NE2	5.00	113.40	108.40
1	b8	230	VAL	N-CA-CB	-5.00	101.73	110.13
1	b9	38	PRO	N-CA-CB	5.00	108.82	103.52
1	bb	12	HIS	CE1-NE2-CD2	-5.00	104.00	109.00
1	be	146	SER	CA-C-N	5.00	126.09	119.84
1	be	146	SER	C-N-CA	5.00	126.09	119.84
1	bg	16	SER	CA-C-N	5.00	124.49	119.19
1	bg	16	SER	C-N-CA	5.00	124.49	119.19
1	bi	203	LYS	CG-CD-CE	5.00	122.80	111.30
1	bm	34	PRO	CA-C-O	-5.00	113.22	118.92
1	bL	115	ILE	CB-CA-C	-5.00	105.57	111.97
1	bP	217	ALA	CA-C-O	5.00	126.39	120.69
1	bQ	97	ARG	NE-CZ-NH1	5.00	126.50	121.50
1	bU	115	ILE	CA-CB-CG1	-5.00	101.90	110.40
1	c2	152	ASP	CA-C-N	5.00	128.05	120.75
1	c2	152	ASP	C-N-CA	5.00	128.05	120.75
1	c7	215	MET	CB-CA-C	-5.00	101.38	110.63
1	ch	34	PRO	N-CA-C	-5.00	108.10	114.35
1	1f	215	MET	CA-C-O	5.00	125.53	119.38
1	cK	229	ARG	NE-CZ-NH2	-5.00	114.70	119.20
1	cR	152	ASP	N-CA-C	5.00	117.46	111.71
1	d7	226	HIS	CA-C-O	5.00	126.69	121.19
1	db	33	SER	O-C-N	-5.00	117.07	121.32
1	db	197	ASP	N-CA-CB	5.00	117.47	110.12
1	dk	3	VAL	N-CA-CB	-5.00	105.36	111.21
1	1k	109	SER	CA-C-N	5.00	130.07	120.97
1	1k	109	SER	C-N-CA	5.00	130.07	120.97
1	dr	200	THR	CA-CB-OG1	5.00	117.10	109.60
1	ds	119	THR	CA-CB-OG1	5.00	117.10	109.60
1	dv	167	ARG	NH1-CZ-NH2	-5.00	112.80	119.30
1	dC	119	THR	N-CA-CB	5.00	118.00	110.30
1	dE	52	LEU	N-CA-C	5.00	116.42	111.07
1	dE	119	THR	CB-CA-C	-5.00	101.72	110.17
1	dE	135	ILE	N-CA-C	5.00	115.72	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	dG	14	ALA	N-CA-C	5.00	117.59	110.24
1	dH	1	PRO	CA-N-CD	-5.00	105.00	112.00
1	e0	126	VAL	N-CA-C	5.00	115.22	110.42
1	e1	83	LEU	CB-CA-C	5.00	119.19	110.94
1	e4	49	PRO	CA-C-N	5.00	126.94	120.44
1	e4	49	PRO	C-N-CA	5.00	126.94	120.44
1	e9	85	PRO	CA-C-N	5.00	130.01	123.11
1	e9	85	PRO	C-N-CA	5.00	130.01	123.11
1	1q	196	PRO	N-CA-C	5.00	122.77	112.47
1	em	95	GLN	CG-CD-NE2	5.00	123.90	116.40
1	ep	182	LYS	CA-C-O	5.00	125.85	120.55
1	es	37	ILE	N-CA-C	5.00	118.35	112.35
1	eu	120	HIS	CA-C-O	-5.00	115.25	121.55
1	ez	98	GLU	CA-C-O	-5.00	115.05	119.75
1	eH	139	ASN	CA-CB-CG	-5.00	107.60	112.60
1	eH	171	THR	N-CA-C	5.00	116.73	111.28
1	eI	33	SER	CA-C-N	5.00	124.72	119.82
1	eI	33	SER	C-N-CA	5.00	124.72	119.82
1	eK	71	GLU	N-CA-CB	-5.00	102.82	110.07
1	eQ	31	ALA	N-CA-C	5.00	121.45	110.80
1	eQ	188	THR	CA-C-N	5.00	126.94	120.44
1	eQ	188	THR	C-N-CA	5.00	126.94	120.44
1	eS	39	MET	CG-SD-CE	-5.00	89.90	100.90
1	f1	171	THR	CA-C-N	5.00	126.98	120.28
1	f1	171	THR	C-N-CA	5.00	126.98	120.28
1	fg	25	LYS	N-CA-C	5.00	119.09	112.89
1	fk	230	VAL	O-C-N	-5.00	117.25	123.10
1	fm	64	ALA	O-C-N	5.00	127.85	122.15
1	1x	37	ILE	N-CA-CB	-5.00	107.17	110.52
1	fE	230	VAL	CA-C-N	5.00	130.70	121.70
1	fE	230	VAL	C-N-CA	5.00	130.70	121.70
1	fG	207	PRO	N-CA-CB	5.00	108.19	103.19
1	fR	148	THR	CA-C-N	5.00	128.79	120.94
1	fR	148	THR	C-N-CA	5.00	128.79	120.94
1	fX	160	PRO	N-CA-CB	5.00	107.98	103.33
1	g2	159	GLU	CB-CA-C	-5.00	104.62	110.17
1	g3	141	ILE	N-CA-C	5.00	115.61	110.36
1	g4	37	ILE	CA-C-O	-5.00	113.25	119.95
1	a	143	ARG	O-C-N	-5.00	116.89	122.09
1	d	3	VAL	O-C-N	-5.00	117.86	123.26
1	f	28	GLU	N-CA-CB	-5.00	102.77	110.12
1	g	153	ILE	O-C-N	-5.00	117.59	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	h	162	ARG	N-CA-C	5.00	117.38	111.33
1	n	146	SER	N-CA-CB	5.00	116.78	110.23
1	2	26	VAL	N-CA-CB	5.00	118.08	110.58
1	A	180	GLU	CB-CA-C	-5.00	103.03	110.88
1	C	78	ALA	CA-C-N	5.00	126.98	120.28
1	C	78	ALA	C-N-CA	5.00	126.98	120.28
1	4	57	ASN	OD1-CG-ND2	-5.00	117.60	122.60
1	P	44	SER	O-C-N	-5.00	116.11	122.26
1	6	161	PHE	N-CA-C	5.00	116.73	111.28
1	8	168	PHE	CA-CB-CG	-5.00	108.80	113.80

There are no chirality outliers.

All (7415) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	0	145	TYR	Sidechain
1	0	154	ARG	Sidechain
1	0	161	PHE	Sidechain
1	0	169	TYR	Sidechain
1	0	18	ARG	Sidechain
1	1	169	TYR	Sidechain
1	1	40	PHE	Sidechain
1	10	121	ASN	Peptide
1	10	154	ARG	Sidechain
1	10	167	ARG	Sidechain
1	11	124	ILE	Peptide
1	11	164	TYR	Sidechain
1	11	173	ARG	Sidechain
1	11	18	ARG	Sidechain
1	12	132	ARG	Sidechain
1	12	145	TYR	Sidechain
1	12	226	HIS	Sidechain
1	12	229	ARG	Sidechain
1	12	25	LYS	Mainchain
1	12	84	HIS	Peptide
1	12	89	GLY	Peptide
1	13	120	HIS	Sidechain
1	13	132	ARG	Sidechain
1	13	145	TYR	Sidechain
1	13	164	TYR	Sidechain,Mainchain
1	13	167	ARG	Sidechain
1	13	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	13	18	ARG	Sidechain
1	14	100	ARG	Sidechain
1	14	132	ARG	Sidechain
1	14	143	ARG	Sidechain
1	14	145	TYR	Sidechain
1	14	154	ARG	Sidechain
1	14	162	ARG	Sidechain
1	14	169	TYR	Sidechain
1	14	18	ARG	Sidechain
1	14	206	GLY	Peptide
1	14	32	PHE	Peptide
1	14	97	ARG	Sidechain
1	15	100	ARG	Sidechain
1	15	120	HIS	Sidechain
1	15	130	TYR	Sidechain
1	15	145	TYR	Sidechain
1	15	229	ARG	Sidechain
1	16	130	TYR	Sidechain
1	16	18	ARG	Sidechain
1	16	206	GLY	Peptide
1	16	229	ARG	Sidechain
1	17	13	GLN	Peptide
1	17	132	ARG	Sidechain
1	17	167	ARG	Sidechain
1	17	169	TYR	Sidechain
1	17	32	PHE	Sidechain
1	17	99	PRO	Peptide
1	18	145	TYR	Sidechain
1	18	156	GLY	Peptide
1	18	18	ARG	Sidechain
1	19	130	TYR	Sidechain
1	19	159	GLU	Peptide
1	19	62	HIS	Sidechain
1	1A	162	ARG	Sidechain
1	1A	167	ARG	Sidechain
1	1A	169	TYR	Sidechain
1	1A	62	HIS	Peptide
1	1B	132	ARG	Sidechain
1	1B	145	TYR	Sidechain
1	1B	162	ARG	Sidechain
1	1B	169	TYR	Sidechain
1	1B	32	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	1B	82	ARG	Sidechain
1	1C	121	ASN	Peptide
1	1C	226	HIS	Sidechain
1	1C	229	ARG	Sidechain
1	1C	40	PHE	Sidechain
1	1C	62	HIS	Sidechain
1	1D	132	ARG	Sidechain
1	1D	164	TYR	Sidechain
1	1D	169	TYR	Mainchain
1	1D	18	ARG	Sidechain
1	1D	40	PHE	Sidechain
1	1E	130	TYR	Sidechain
1	1E	169	TYR	Sidechain
1	1E	87	HIS	Sidechain
1	1F	120	HIS	Sidechain
1	1F	132	ARG	Sidechain
1	1F	145	TYR	Sidechain
1	1F	146	SER	Peptide
1	1F	167	ARG	Sidechain
1	1F	169	TYR	Sidechain
1	1F	18	ARG	Sidechain
1	1F	87	HIS	Sidechain
1	1G	145	TYR	Sidechain
1	1G	154	ARG	Sidechain
1	1G	164	TYR	Sidechain
1	1G	167	ARG	Sidechain
1	1G	82	ARG	Sidechain
1	1H	121	ASN	Peptide
1	1H	143	ARG	Sidechain
1	1H	154	ARG	Sidechain
1	1H	167	ARG	Sidechain
1	1H	173	ARG	Sidechain
1	1H	229	ARG	Sidechain
1	1I	121	ASN	Peptide
1	1I	130	TYR	Sidechain
1	1I	154	ARG	Sidechain
1	1I	229	ARG	Sidechain
1	1J	120	HIS	Sidechain
1	1J	16	SER	Peptide
1	1J	226	HIS	Sidechain
1	1J	5	ASN	Sidechain
1	1K	124	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	1K	143	ARG	Sidechain
1	1K	162	ARG	Sidechain
1	1K	164	TYR	Sidechain
1	1K	169	TYR	Sidechain
1	1K	173	ARG	Sidechain
1	1K	229	ARG	Sidechain
1	1K	40	PHE	Sidechain
1	1K	87	HIS	Sidechain
1	1L	161	PHE	Sidechain
1	1L	167	ARG	Sidechain
1	1L	229	ARG	Sidechain
1	1M	130	TYR	Sidechain
1	1M	164	TYR	Sidechain
1	1M	168	PHE	Sidechain
1	1M	18	ARG	Sidechain
1	1M	206	GLY	Peptide
1	1M	229	ARG	Sidechain
1	1M	32	PHE	Sidechain
1	1M	82	ARG	Sidechain
1	1M	97	ARG	Sidechain
1	1N	12	HIS	Sidechain
1	1N	130	TYR	Sidechain
1	1N	154	ARG	Sidechain
1	1N	173	ARG	Sidechain
1	1O	132	ARG	Sidechain
1	1O	145	TYR	Sidechain
1	1P	145	TYR	Sidechain
1	1P	156	GLY	Peptide
1	1P	161	PHE	Sidechain
1	1P	82	ARG	Sidechain
1	1P	97	ARG	Sidechain
1	1Q	120	HIS	Sidechain
1	1Q	173	ARG	Sidechain
1	1Q	226	HIS	Sidechain
1	1Q	84	HIS	Sidechain
1	1R	145	TYR	Sidechain
1	1R	167	ARG	Sidechain
1	1R	169	TYR	Sidechain
1	1R	18	ARG	Sidechain
1	1R	62	HIS	Sidechain
1	1R	97	ARG	Sidechain
1	1S	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	1S	130	TYR	Sidechain
1	1S	146	SER	Peptide
1	1S	173	ARG	Sidechain
1	1S	226	HIS	Sidechain
1	1S	32	PHE	Sidechain
1	1S	40	PHE	Sidechain
1	1S	87	HIS	Sidechain
1	1T	100	ARG	Sidechain
1	1T	132	ARG	Sidechain
1	1T	143	ARG	Sidechain
1	1T	145	TYR	Sidechain
1	1T	167	ARG	Sidechain
1	1T	169	TYR	Sidechain
1	1T	226	HIS	Sidechain
1	1T	229	ARG	Sidechain
1	1T	68	MET	Mainchain
1	1U	167	ARG	Sidechain
1	1U	173	ARG	Sidechain
1	1U	82	ARG	Sidechain
1	1U	84	HIS	Peptide
1	1V	100	ARG	Sidechain
1	1V	120	HIS	Sidechain
1	1V	164	TYR	Sidechain
1	1V	169	TYR	Sidechain
1	1V	18	ARG	Sidechain
1	1V	40	PHE	Sidechain
1	1V	48	THR	Peptide
1	1W	132	ARG	Sidechain
1	1W	164	TYR	Sidechain
1	1W	168	PHE	Sidechain
1	1W	169	TYR	Sidechain
1	1W	18	ARG	Sidechain
1	1W	229	ARG	Sidechain
1	1W	62	HIS	Sidechain
1	1X	120	HIS	Sidechain
1	1X	121	ASN	Peptide
1	1X	145	TYR	Sidechain
1	1X	154	ARG	Sidechain
1	1X	167	ARG	Sidechain
1	1X	173	ARG	Sidechain
1	1X	82	ARG	Sidechain
1	1Y	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	1Y	132	ARG	Sidechain
1	1Y	145	TYR	Sidechain
1	1Y	154	ARG	Sidechain
1	1Z	121	ASN	Peptide
1	1Z	132	ARG	Sidechain
1	1a	100	ARG	Sidechain
1	1a	145	TYR	Sidechain
1	1a	169	TYR	Sidechain
1	1b	100	ARG	Sidechain
1	1b	130	TYR	Sidechain
1	1b	145	TYR	Sidechain
1	1b	154	ARG	Sidechain
1	1b	164	TYR	Sidechain
1	1b	169	TYR	Sidechain
1	1c	121	ASN	Peptide
1	1c	130	TYR	Sidechain
1	1c	145	TYR	Sidechain
1	1c	167	ARG	Sidechain
1	1c	169	TYR	Sidechain
1	1c	229	ARG	Sidechain
1	1d	130	TYR	Sidechain
1	1d	164	TYR	Sidechain
1	1d	173	ARG	Sidechain
1	1d	32	PHE	Sidechain
1	1d	40	PHE	Sidechain
1	1d	82	ARG	Sidechain
1	1e	124	ILE	Peptide
1	1e	226	HIS	Sidechain
1	1e	87	HIS	Sidechain
1	1f	121	ASN	Peptide
1	1f	145	TYR	Sidechain
1	1f	167	ARG	Sidechain
1	1f	82	ARG	Sidechain
1	1g	154	ARG	Sidechain
1	1g	162	ARG	Sidechain
1	1g	169	TYR	Sidechain
1	1g	227	LYS	Peptide
1	1g	82	ARG	Sidechain
1	1h	121	ASN	Peptide
1	1h	130	TYR	Sidechain
1	1h	145	TYR	Sidechain
1	1h	154	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	1h	164	TYR	Sidechain
1	1h	167	ARG	Sidechain
1	1h	169	TYR	Sidechain
1	1h	229	ARG	Sidechain
1	1h	84	HIS	Peptide
1	1h	92	GLU	Peptide
1	1i	132	ARG	Sidechain
1	1i	146	SER	Peptide
1	1i	162	ARG	Sidechain
1	1i	164	TYR	Sidechain
1	1i	167	ARG	Sidechain
1	1i	229	ARG	Sidechain
1	1j	143	ARG	Sidechain
1	1j	145	TYR	Sidechain
1	1j	152	ASP	Sidechain
1	1j	169	TYR	Sidechain
1	1j	87	HIS	Sidechain
1	1k	167	ARG	Sidechain
1	1k	169	TYR	Sidechain
1	1k	229	ARG	Sidechain
1	1l	121	ASN	Peptide
1	1l	162	ARG	Sidechain
1	1l	18	ARG	Sidechain
1	1l	32	PHE	Sidechain
1	1l	84	HIS	Peptide
1	1m	100	ARG	Sidechain
1	1m	120	HIS	Sidechain
1	1m	145	TYR	Sidechain
1	1m	164	TYR	Sidechain
1	1m	168	PHE	Sidechain
1	1m	18	ARG	Sidechain
1	1m	40	PHE	Sidechain
1	1n	167	ARG	Sidechain
1	1n	169	TYR	Sidechain
1	1o	100	ARG	Sidechain
1	1o	121	ASN	Peptide
1	1o	130	TYR	Sidechain
1	1o	143	ARG	Sidechain
1	1o	145	TYR	Sidechain
1	1o	154	ARG	Sidechain
1	1o	162	ARG	Sidechain
1	1o	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	1o	169	TYR	Sidechain
1	1o	32	PHE	Peptide
1	1o	84	HIS	Sidechain
1	1o	95	GLN	Peptide
1	1p	121	ASN	Peptide
1	1q	100	ARG	Sidechain
1	1q	121	ASN	Peptide
1	1q	154	ARG	Sidechain
1	1q	162	ARG	Sidechain
1	1q	169	TYR	Sidechain
1	1q	18	ARG	Sidechain
1	1r	100	ARG	Sidechain
1	1r	12	HIS	Sidechain
1	1r	130	TYR	Sidechain
1	1r	132	ARG	Sidechain
1	1r	169	TYR	Sidechain
1	1r	173	ARG	Sidechain
1	1r	226	HIS	Sidechain
1	1r	32	PHE	Sidechain
1	1s	143	ARG	Sidechain
1	1s	164	TYR	Sidechain
1	1s	32	PHE	Sidechain
1	1t	120	HIS	Sidechain
1	1t	130	TYR	Sidechain
1	1t	169	TYR	Sidechain
1	1t	229	ARG	Sidechain
1	1u	12	HIS	Sidechain
1	1u	162	ARG	Sidechain
1	1v	145	TYR	Sidechain
1	1v	18	ARG	Sidechain
1	1v	40	PHE	Sidechain
1	1v	84	HIS	Sidechain
1	1w	121	ASN	Peptide
1	1w	130	TYR	Sidechain
1	1w	143	ARG	Sidechain
1	1w	167	ARG	Sidechain
1	1w	173	ARG	Sidechain
1	1w	217	ALA	Peptide
1	1w	40	PHE	Sidechain
1	1x	100	ARG	Sidechain
1	1x	130	TYR	Sidechain
1	1x	173	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	1x	18	ARG	Sidechain
1	1x	84	HIS	Sidechain
1	1y	132	ARG	Sidechain
1	1y	143	ARG	Sidechain
1	1y	145	TYR	Sidechain
1	1y	167	ARG	Sidechain
1	1y	168	PHE	Sidechain
1	1y	169	TYR	Sidechain
1	1y	173	ARG	Sidechain
1	1z	162	ARG	Sidechain
1	1z	169	TYR	Sidechain
1	1z	173	ARG	Sidechain
1	1z	40	PHE	Sidechain
1	1z	82	ARG	Sidechain
1	1z	84	HIS	Sidechain
1	2	121	ASN	Peptide
1	2	18	ARG	Sidechain
1	2	32	PHE	Sidechain
1	20	130	TYR	Sidechain
1	20	143	ARG	Sidechain
1	20	154	ARG	Sidechain
1	20	97	ARG	Sidechain
1	21	121	ASN	Peptide
1	21	130	TYR	Sidechain
1	21	143	ARG	Sidechain
1	21	154	ARG	Sidechain
1	21	162	ARG	Sidechain
1	21	164	TYR	Sidechain
1	21	173	ARG	Sidechain
1	21	18	ARG	Sidechain
1	22	143	ARG	Sidechain
1	22	154	ARG	Sidechain
1	22	162	ARG	Sidechain
1	22	167	ARG	Sidechain
1	22	169	TYR	Sidechain
1	22	18	ARG	Sidechain
1	23	100	ARG	Sidechain
1	23	124	ILE	Peptide
1	23	130	TYR	Sidechain
1	23	146	SER	Peptide
1	23	162	ARG	Sidechain
1	23	169	TYR	Peptide

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Mol	Chain	Res	Type	Group
1	23	18	ARG	Sidechain
1	23	82	ARG	Sidechain
1	24	100	ARG	Sidechain
1	24	145	TYR	Sidechain
1	24	173	ARG	Sidechain
1	24	82	ARG	Sidechain
1	24	84	HIS	Peptide
1	25	121	ASN	Peptide
1	25	143	ARG	Sidechain
1	25	164	TYR	Sidechain
1	25	173	ARG	Sidechain
1	26	121	ASN	Peptide
1	26	145	TYR	Sidechain
1	26	161	PHE	Sidechain
1	26	162	ARG	Sidechain
1	26	164	TYR	Sidechain
1	26	167	ARG	Sidechain
1	26	168	PHE	Sidechain
1	26	173	ARG	Sidechain
1	26	18	ARG	Sidechain
1	27	145	TYR	Sidechain
1	28	120	HIS	Sidechain
1	28	121	ASN	Peptide
1	28	143	ARG	Sidechain
1	28	229	ARG	Sidechain
1	28	82	ARG	Sidechain
1	28	87	HIS	Sidechain
1	29	121	ASN	Peptide
1	29	124	ILE	Peptide
1	29	130	TYR	Sidechain
1	29	132	ARG	Sidechain
1	29	145	TYR	Sidechain
1	29	197	ASP	Sidechain
1	29	6	LEU	Peptide
1	2A	130	TYR	Sidechain
1	2A	145	TYR	Sidechain
1	2A	164	TYR	Sidechain
1	2A	173	ARG	Sidechain
1	2A	223	GLY	Peptide
1	2A	43	LEU	Mainchain
1	2B	124	ILE	Peptide
1	2B	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	2B	159	GLU	Peptide
1	2B	164	TYR	Sidechain
1	2B	32	PHE	Sidechain
1	2C	143	ARG	Sidechain
1	2C	154	ARG	Sidechain
1	2C	162	ARG	Sidechain
1	2C	169	TYR	Sidechain
1	2C	32	PHE	Sidechain
1	2D	132	ARG	Sidechain
1	2D	145	TYR	Sidechain
1	2D	154	ARG	Sidechain
1	2D	162	ARG	Sidechain
1	2D	164	TYR	Sidechain
1	2D	189	LEU	Mainchain
1	2D	204	ALA	Peptide
1	2D	226	HIS	Sidechain
1	2D	82	ARG	Sidechain
1	2D	87	HIS	Sidechain
1	2E	113	GLU	Mainchain
1	2E	121	ASN	Peptide
1	2E	132	ARG	Sidechain
1	2E	164	TYR	Sidechain
1	2E	167	ARG	Sidechain
1	2E	169	TYR	Sidechain
1	2F	132	ARG	Sidechain
1	2F	173	ARG	Sidechain
1	2F	188	THR	Peptide
1	2F	229	ARG	Sidechain
1	2G	122	PRO	Peptide
1	2G	124	ILE	Peptide
1	2G	143	ARG	Sidechain
1	2G	145	TYR	Sidechain
1	2G	154	ARG	Sidechain
1	2G	161	PHE	Sidechain
1	2G	169	TYR	Sidechain
1	2G	173	ARG	Sidechain
1	2G	226	HIS	Sidechain
1	2G	84	HIS	Sidechain
1	2H	12	HIS	Sidechain
1	2H	121	ASN	Peptide
1	2H	132	ARG	Sidechain
1	2H	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	2H	226	HIS	Sidechain
1	2I	130	TYR	Sidechain
1	2I	132	ARG	Sidechain
1	2I	143	ARG	Sidechain
1	2I	161	PHE	Sidechain
1	2I	168	PHE	Sidechain
1	2I	173	ARG	Sidechain
1	2J	132	ARG	Sidechain
1	2J	229	ARG	Sidechain
1	2J	32	PHE	Sidechain
1	2J	40	PHE	Sidechain
1	2J	82	ARG	Sidechain
1	2J	84	HIS	Peptide
1	2K	154	ARG	Sidechain
1	2K	168	PHE	Sidechain
1	2K	229	ARG	Sidechain
1	2L	100	ARG	Sidechain
1	2L	121	ASN	Peptide
1	2L	132	ARG	Sidechain
1	2M	145	TYR	Sidechain
1	2M	154	ARG	Sidechain
1	2M	164	TYR	Sidechain
1	2M	169	TYR	Sidechain
1	2N	100	ARG	Sidechain
1	2N	130	TYR	Sidechain
1	2N	145	TYR	Sidechain
1	2N	162	ARG	Sidechain
1	2N	173	ARG	Sidechain
1	2N	18	ARG	Sidechain
1	2N	81	ASP	Sidechain
1	2N	84	HIS	Sidechain
1	2O	130	TYR	Sidechain
1	2O	173	ARG	Sidechain
1	2P	132	ARG	Sidechain
1	2P	167	ARG	Sidechain
1	2P	18	ARG	Sidechain
1	2Q	121	ASN	Peptide
1	2Q	130	TYR	Sidechain
1	2Q	168	PHE	Sidechain
1	2Q	169	TYR	Sidechain
1	2Q	173	ARG	Sidechain
1	2Q	42	ALA	Mainchain

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Mol	Chain	Res	Type	Group
1	2Q	87	HIS	Sidechain
1	2R	100	ARG	Sidechain
1	2R	145	TYR	Sidechain
1	2R	167	ARG	Sidechain
1	2R	169	TYR	Sidechain
1	2R	24	VAL	Mainchain
1	2S	12	HIS	Sidechain
1	2S	173	ARG	Sidechain
1	2S	97	ARG	Sidechain
1	2T	100	ARG	Sidechain
1	2T	120	HIS	Sidechain
1	2T	124	ILE	Peptide
1	2T	130	TYR	Sidechain
1	2T	154	ARG	Sidechain
1	2T	173	ARG	Sidechain
1	2T	229	ARG	Sidechain
1	2U	130	TYR	Sidechain
1	2U	143	ARG	Sidechain
1	2U	145	TYR	Sidechain
1	2U	154	ARG	Sidechain
1	2U	164	TYR	Sidechain
1	2U	167	ARG	Sidechain
1	2U	169	TYR	Sidechain
1	2U	173	ARG	Sidechain
1	2U	18	ARG	Sidechain
1	2U	29	GLU	Peptide
1	2U	40	PHE	Sidechain
1	2V	121	ASN	Peptide
1	2V	143	ARG	Sidechain
1	2V	162	ARG	Sidechain
1	2V	229	ARG	Sidechain
1	2W	130	TYR	Sidechain
1	2W	145	TYR	Sidechain
1	2W	161	PHE	Sidechain
1	2W	162	ARG	Sidechain
1	2W	164	TYR	Sidechain
1	2W	18	ARG	Sidechain
1	2W	97	ARG	Sidechain
1	2X	120	HIS	Sidechain
1	2X	82	ARG	Sidechain
1	2Y	130	TYR	Sidechain
1	2Y	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	2Y	164	TYR	Sidechain
1	2Y	82	ARG	Sidechain
1	2Z	100	ARG	Sidechain
1	2Z	143	ARG	Sidechain
1	2Z	173	ARG	Sidechain
1	2Z	18	ARG	Sidechain
1	2Z	229	ARG	Sidechain
1	2Z	82	ARG	Sidechain
1	2a	162	ARG	Sidechain
1	2a	18	ARG	Sidechain
1	2a	87	HIS	Sidechain
1	2a	92	GLU	Peptide
1	2b	62	HIS	Sidechain
1	2b	82	ARG	Sidechain
1	2b	84	HIS	Sidechain
1	2c	130	TYR	Sidechain
1	2c	132	ARG	Sidechain
1	2c	32	PHE	Sidechain
1	2c	82	ARG	Sidechain
1	2c	97	ARG	Peptide
1	2d	100	ARG	Sidechain
1	2d	132	ARG	Sidechain
1	2d	145	TYR	Sidechain
1	2d	148	THR	Peptide
1	2d	164	TYR	Sidechain
1	2d	228	ALA	Peptide
1	2d	229	ARG	Sidechain
1	2d	97	ARG	Sidechain
1	2e	130	TYR	Sidechain
1	2e	169	TYR	Sidechain
1	2e	18	ARG	Sidechain
1	2f	124	ILE	Peptide
1	2f	130	TYR	Sidechain
1	2f	143	ARG	Sidechain
1	2f	145	TYR	Sidechain
1	2f	30	LYS	Peptide
1	2f	97	ARG	Sidechain
1	2g	121	ASN	Peptide
1	2g	124	ILE	Peptide
1	2g	145	TYR	Sidechain
1	2g	161	PHE	Sidechain
1	2g	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	2g	169	TYR	Sidechain
1	2g	84	HIS	Sidechain
1	2h	100	ARG	Sidechain
1	2h	130	TYR	Sidechain
1	2h	143	ARG	Sidechain
1	2h	168	PHE	Sidechain
1	2h	195	ASN	Peptide
1	2h	229	ARG	Sidechain
1	2h	61	GLY	Peptide
1	2h	84	HIS	Sidechain
1	2h	97	ARG	Sidechain
1	2i	132	ARG	Sidechain
1	2i	162	ARG	Sidechain
1	2i	45	GLU	Mainchain
1	2i	87	HIS	Sidechain
1	2j	132	ARG	Sidechain
1	2j	143	ARG	Sidechain
1	2j	145	TYR	Sidechain
1	2j	162	ARG	Sidechain
1	2j	164	TYR	Sidechain
1	2j	172	LEU	Peptide
1	2j	229	ARG	Sidechain
1	2k	162	ARG	Sidechain
1	2k	164	TYR	Sidechain
1	2k	169	TYR	Sidechain
1	2l	130	TYR	Sidechain
1	2l	132	ARG	Sidechain
1	2l	145	TYR	Sidechain
1	2l	154	ARG	Sidechain
1	2l	164	TYR	Sidechain
1	2l	173	ARG	Sidechain
1	2l	32	PHE	Sidechain
1	2l	82	ARG	Sidechain
1	2m	100	ARG	Sidechain
1	2m	130	TYR	Sidechain
1	2m	143	ARG	Sidechain
1	2m	167	ARG	Sidechain
1	2m	173	ARG	Sidechain
1	2m	229	ARG	Sidechain
1	2n	130	TYR	Sidechain
1	2n	145	TYR	Sidechain
1	2n	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	2n	169	TYR	Sidechain
1	2n	173	ARG	Sidechain
1	2o	145	TYR	Sidechain
1	2o	154	ARG	Sidechain
1	2o	159	GLU	Peptide
1	2o	161	PHE	Sidechain
1	2o	168	PHE	Sidechain
1	2o	169	TYR	Sidechain
1	2o	173	ARG	Sidechain
1	2o	82	ARG	Sidechain
1	2o	97	ARG	Sidechain
1	2p	124	ILE	Peptide
1	2p	145	TYR	Sidechain
1	2p	168	PHE	Sidechain
1	2p	32	PHE	Sidechain
1	2p	40	PHE	Sidechain
1	2p	87	HIS	Sidechain
1	2q	100	ARG	Sidechain
1	2q	121	ASN	Peptide
1	2q	132	ARG	Sidechain
1	2q	154	ARG	Sidechain
1	2q	169	TYR	Sidechain
1	2q	229	ARG	Sidechain
1	2q	32	PHE	Sidechain
1	2q	82	ARG	Sidechain
1	2r	12	HIS	Sidechain
1	2r	120	HIS	Sidechain
1	2r	121	ASN	Peptide
1	2r	132	ARG	Sidechain
1	2r	169	TYR	Sidechain
1	2s	132	ARG	Sidechain
1	2s	18	ARG	Sidechain
1	2s	229	ARG	Sidechain
1	2s	84	HIS	Sidechain,Peptide
1	2s	97	ARG	Sidechain
1	2t	100	ARG	Sidechain
1	2t	121	ASN	Peptide
1	2t	132	ARG	Sidechain
1	2t	145	TYR	Sidechain
1	2t	162	ARG	Sidechain
1	2t	164	TYR	Sidechain
1	2t	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	2t	87	HIS	Sidechain
1	2u	101	GLY	Mainchain
1	2u	18	ARG	Sidechain
1	2v	100	ARG	Sidechain
1	2v	143	ARG	Sidechain
1	2v	162	ARG	Sidechain
1	2v	164	TYR	Sidechain
1	2v	167	ARG	Sidechain
1	2v	169	TYR	Sidechain
1	2v	173	ARG	Sidechain
1	2w	121	ASN	Peptide
1	2w	130	TYR	Sidechain
1	2w	82	ARG	Sidechain
1	2x	154	ARG	Sidechain
1	2x	167	ARG	Sidechain
1	2x	62	HIS	Sidechain
1	2y	124	ILE	Peptide
1	2y	145	TYR	Sidechain
1	2y	173	ARG	Peptide
1	2y	18	ARG	Sidechain
1	2y	40	PHE	Sidechain
1	2z	124	ILE	Peptide
1	2z	130	TYR	Sidechain
1	2z	132	ARG	Sidechain
1	2z	162	ARG	Sidechain
1	2z	173	ARG	Sidechain
1	2z	32	PHE	Sidechain
1	2z	87	HIS	Sidechain
1	2z	99	PRO	Peptide
1	3	130	TYR	Sidechain
1	3	132	ARG	Sidechain
1	3	167	ARG	Sidechain
1	3	32	PHE	Sidechain
1	3	62	HIS	Sidechain
1	30	130	TYR	Sidechain
1	30	173	ARG	Sidechain
1	30	229	ARG	Sidechain
1	31	132	ARG	Sidechain
1	31	162	ARG	Sidechain
1	31	164	TYR	Sidechain
1	31	167	ARG	Sidechain
1	32	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	32	154	ARG	Sidechain
1	32	169	TYR	Sidechain
1	32	18	ARG	Sidechain
1	33	121	ASN	Peptide
1	33	136	LEU	Mainchain
1	33	143	ARG	Sidechain
1	33	18	ARG	Sidechain
1	33	82	ARG	Sidechain
1	34	132	ARG	Sidechain
1	34	169	TYR	Sidechain
1	34	18	ARG	Sidechain
1	34	62	HIS	Sidechain
1	35	120	HIS	Sidechain
1	35	121	ASN	Peptide
1	35	130	TYR	Sidechain
1	35	145	TYR	Sidechain
1	35	167	ARG	Sidechain
1	35	18	ARG	Sidechain
1	35	229	ARG	Sidechain
1	35	63	GLN	Mainchain
1	35	81	ASP	Sidechain
1	35	82	ARG	Sidechain
1	36	143	ARG	Sidechain
1	36	169	TYR	Sidechain
1	37	130	TYR	Sidechain
1	37	132	ARG	Sidechain
1	37	14	ALA	Peptide
1	37	169	TYR	Sidechain
1	37	82	ARG	Sidechain
1	37	84	HIS	Sidechain
1	37	87	HIS	Sidechain
1	38	100	ARG	Sidechain
1	38	143	ARG	Sidechain
1	38	145	TYR	Sidechain
1	38	164	TYR	Sidechain
1	38	167	ARG	Sidechain
1	38	18	ARG	Sidechain
1	38	82	ARG	Sidechain
1	38	84	HIS	Peptide
1	39	100	ARG	Sidechain
1	39	154	ARG	Sidechain
1	39	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	3A	121	ASN	Peptide
1	3A	145	TYR	Sidechain
1	3A	16	SER	Peptide
1	3A	84	HIS	Peptide
1	3B	100	ARG	Sidechain
1	3B	120	HIS	Sidechain
1	3B	121	ASN	Peptide
1	3B	130	TYR	Sidechain
1	3B	145	TYR	Sidechain
1	3B	154	ARG	Sidechain
1	3B	156	GLY	Peptide
1	3B	162	ARG	Sidechain
1	3B	40	PHE	Sidechain
1	3C	156	GLY	Peptide
1	3D	143	ARG	Sidechain
1	3D	145	TYR	Sidechain
1	3D	154	ARG	Sidechain
1	3D	169	TYR	Sidechain
1	3D	82	ARG	Sidechain
1	3E	162	ARG	Sidechain
1	3E	18	ARG	Sidechain
1	3F	120	HIS	Sidechain
1	3F	130	TYR	Sidechain
1	3F	162	ARG	Sidechain
1	3F	173	ARG	Sidechain
1	3G	121	ASN	Peptide
1	3G	145	TYR	Sidechain
1	3G	162	ARG	Sidechain
1	3G	164	TYR	Sidechain
1	3G	173	ARG	Sidechain
1	3H	120	HIS	Sidechain
1	3H	130	TYR	Sidechain
1	3H	132	ARG	Sidechain
1	3H	154	ARG	Sidechain
1	3H	167	ARG	Sidechain
1	3I	120	HIS	Sidechain
1	3I	130	TYR	Sidechain
1	3I	82	ARG	Sidechain
1	3I	84	HIS	Sidechain
1	3J	145	TYR	Sidechain
1	3J	162	ARG	Sidechain
1	3J	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	3K	130	TYR	Sidechain
1	3L	121	ASN	Peptide
1	3L	123	PRO	Peptide
1	3L	154	ARG	Sidechain
1	3L	223	GLY	Peptide
1	3L	82	ARG	Sidechain
1	3M	100	ARG	Sidechain
1	3M	132	ARG	Sidechain
1	3M	167	ARG	Sidechain
1	3M	169	TYR	Sidechain
1	3M	173	ARG	Sidechain
1	3M	32	PHE	Sidechain
1	3N	100	ARG	Sidechain
1	3N	120	HIS	Sidechain
1	3N	132	ARG	Sidechain
1	3N	143	ARG	Sidechain
1	3N	164	TYR	Sidechain
1	3N	173	ARG	Sidechain
1	3N	82	ARG	Sidechain
1	3O	100	ARG	Sidechain
1	3O	143	ARG	Sidechain
1	3O	145	TYR	Sidechain
1	3O	154	ARG	Sidechain
1	3O	162	ARG	Sidechain
1	3O	169	TYR	Sidechain
1	3P	121	ASN	Peptide
1	3P	132	ARG	Sidechain
1	3P	169	TYR	Sidechain
1	3P	173	ARG	Sidechain
1	3P	229	ARG	Sidechain
1	3Q	121	ASN	Peptide
1	3Q	143	ARG	Sidechain
1	3Q	164	TYR	Sidechain
1	3Q	167	ARG	Sidechain
1	3Q	173	ARG	Sidechain
1	3Q	18	ARG	Sidechain
1	3Q	32	PHE	Sidechain
1	3Q	47	ALA	Peptide
1	3R	143	ARG	Sidechain
1	3R	145	TYR	Sidechain
1	3R	191	VAL	Mainchain
1	3R	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3R	98	GLU	Peptide
1	3S	121	ASN	Peptide
1	3S	130	TYR	Sidechain
1	3S	132	ARG	Sidechain
1	3S	145	TYR	Sidechain
1	3S	167	ARG	Sidechain
1	3S	169	TYR	Sidechain
1	3S	222	GLY	Peptide
1	3S	32	PHE	Sidechain
1	3S	97	ARG	Sidechain
1	3T	100	ARG	Sidechain
1	3T	121	ASN	Peptide
1	3T	154	ARG	Sidechain
1	3T	164	TYR	Sidechain
1	3T	18	ARG	Sidechain
1	3T	48	THR	Peptide
1	3T	82	ARG	Sidechain
1	3T	87	HIS	Sidechain
1	3U	100	ARG	Sidechain
1	3U	109	SER	Peptide
1	3U	120	HIS	Sidechain
1	3U	121	ASN	Peptide
1	3U	168	PHE	Sidechain
1	3U	173	ARG	Sidechain
1	3U	195	ASN	Peptide
1	3U	97	ARG	Sidechain
1	3V	143	ARG	Sidechain
1	3V	164	TYR	Sidechain
1	3V	169	TYR	Sidechain
1	3V	53	ASN	Mainchain
1	3W	121	ASN	Peptide
1	3W	130	TYR	Sidechain
1	3W	14	ALA	Peptide
1	3W	145	TYR	Sidechain
1	3W	167	ARG	Sidechain
1	3W	169	TYR	Sidechain
1	3W	173	ARG	Sidechain
1	3W	226	HIS	Sidechain
1	3W	97	ARG	Sidechain
1	3X	161	PHE	Sidechain
1	3X	162	ARG	Sidechain
1	3X	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3X	169	TYR	Sidechain
1	3X	173	ARG	Sidechain
1	3X	18	ARG	Sidechain
1	3Y	109	SER	Peptide
1	3Y	132	ARG	Sidechain
1	3Y	143	ARG	Sidechain
1	3Y	154	ARG	Sidechain
1	3Y	173	ARG	Sidechain
1	3Y	18	ARG	Sidechain
1	3Z	100	ARG	Sidechain
1	3Z	130	TYR	Sidechain
1	3Z	132	ARG	Sidechain
1	3Z	143	ARG	Sidechain
1	3Z	145	TYR	Sidechain
1	3Z	164	TYR	Sidechain
1	3Z	167	ARG	Sidechain
1	3a	100	ARG	Sidechain
1	3a	154	ARG	Sidechain
1	3a	164	TYR	Sidechain
1	3a	226	HIS	Sidechain
1	3a	229	ARG	Sidechain
1	3a	37	ILE	Mainchain
1	3a	47	ALA	Peptide
1	3a	82	ARG	Sidechain
1	3b	100	ARG	Sidechain
1	3b	132	ARG	Sidechain
1	3b	162	ARG	Sidechain
1	3b	164	TYR	Sidechain
1	3b	18	ARG	Sidechain
1	3b	40	PHE	Sidechain
1	3b	84	HIS	Sidechain
1	3c	130	TYR	Sidechain
1	3c	167	ARG	Sidechain
1	3c	169	TYR	Sidechain
1	3c	97	ARG	Sidechain
1	3c	99	PRO	Peptide
1	3d	100	ARG	Sidechain
1	3d	130	TYR	Sidechain
1	3d	143	ARG	Sidechain
1	3d	145	TYR	Sidechain
1	3d	154	ARG	Sidechain
1	3d	159	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	3d	164	TYR	Sidechain
1	3d	18	ARG	Sidechain
1	3d	84	HIS	Sidechain
1	3d	97	ARG	Sidechain
1	3e	124	ILE	Peptide
1	3e	154	ARG	Sidechain
1	3e	161	PHE	Sidechain
1	3e	162	ARG	Sidechain
1	3e	169	TYR	Sidechain
1	3e	82	ARG	Sidechain
1	3e	97	ARG	Sidechain
1	3f	143	ARG	Sidechain
1	3f	173	ARG	Sidechain
1	3f	28	GLU	Mainchain
1	3g	12	HIS	Sidechain
1	3g	145	TYR	Sidechain
1	3g	164	TYR	Sidechain
1	3g	97	ARG	Sidechain
1	3h	100	ARG	Sidechain
1	3h	154	ARG	Sidechain
1	3h	167	ARG	Sidechain
1	3h	195	ASN	Peptide
1	3h	97	ARG	Sidechain
1	3i	123	PRO	Peptide
1	3i	143	ARG	Sidechain
1	3i	162	ARG	Sidechain
1	3i	164	TYR	Sidechain
1	3i	173	ARG	Sidechain
1	3i	18	ARG	Sidechain
1	3i	32	PHE	Sidechain
1	3j	100	ARG	Sidechain
1	3j	164	TYR	Sidechain
1	3j	173	ARG	Sidechain
1	3k	121	ASN	Peptide
1	3k	130	TYR	Sidechain
1	3k	161	PHE	Sidechain
1	3k	162	ARG	Sidechain
1	3k	167	ARG	Sidechain
1	3k	169	TYR	Sidechain
1	3k	82	ARG	Sidechain
1	3l	168	PHE	Sidechain
1	3l	173	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3l	18	ARG	Sidechain
1	3l	40	PHE	Sidechain
1	3l	87	HIS	Sidechain
1	3l	97	ARG	Sidechain
1	3m	143	ARG	Sidechain
1	3m	154	ARG	Sidechain
1	3m	164	TYR	Sidechain
1	3m	173	ARG	Sidechain
1	3m	18	ARG	Sidechain
1	3n	132	ARG	Sidechain
1	3n	169	TYR	Sidechain
1	3n	173	ARG	Sidechain
1	3n	97	ARG	Sidechain
1	3o	143	ARG	Sidechain
1	3o	145	TYR	Sidechain
1	3o	162	ARG	Sidechain
1	3o	97	ARG	Sidechain
1	3p	100	ARG	Sidechain
1	3p	143	ARG	Sidechain
1	3p	167	ARG	Sidechain
1	3p	169	TYR	Sidechain
1	3p	18	ARG	Sidechain
1	3p	32	PHE	Sidechain
1	3p	87	HIS	Sidechain
1	3q	124	ILE	Peptide
1	3q	132	ARG	Sidechain
1	3q	164	TYR	Sidechain
1	3q	167	ARG	Sidechain
1	3q	229	ARG	Sidechain
1	3r	12	HIS	Sidechain
1	3r	120	HIS	Sidechain
1	3r	121	ASN	Peptide
1	3r	130	TYR	Sidechain
1	3r	132	ARG	Sidechain
1	3r	145	TYR	Sidechain
1	3r	167	ARG	Sidechain
1	3r	18	ARG	Sidechain
1	3r	82	ARG	Sidechain
1	3s	120	HIS	Sidechain
1	3s	145	TYR	Sidechain
1	3s	154	ARG	Sidechain
1	3s	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3s	164	TYR	Sidechain
1	3s	173	ARG	Sidechain
1	3s	82	ARG	Sidechain
1	3s	84	HIS	Sidechain
1	3s	97	ARG	Sidechain
1	3t	121	ASN	Peptide
1	3t	132	ARG	Sidechain
1	3t	143	ARG	Sidechain
1	3t	162	ARG	Sidechain
1	3t	173	ARG	Sidechain
1	3t	18	ARG	Sidechain
1	3t	40	PHE	Sidechain
1	3t	87	HIS	Sidechain
1	3t	97	ARG	Sidechain
1	3u	143	ARG	Sidechain
1	3u	145	TYR	Sidechain
1	3u	169	TYR	Sidechain
1	3u	173	ARG	Sidechain
1	3u	82	ARG	Sidechain
1	3v	121	ASN	Peptide
1	3v	145	TYR	Sidechain
1	3v	167	ARG	Sidechain
1	3v	195	ASN	Peptide
1	3v	87	HIS	Sidechain
1	3w	143	ARG	Sidechain
1	3w	145	TYR	Sidechain
1	3w	169	TYR	Sidechain
1	3w	173	ARG	Sidechain
1	3w	18	ARG	Sidechain
1	3w	226	HIS	Sidechain
1	3w	82	ARG	Sidechain
1	3x	130	TYR	Sidechain
1	3x	226	HIS	Sidechain
1	3y	130	TYR	Sidechain
1	3y	132	ARG	Sidechain
1	3y	145	TYR	Sidechain
1	3y	162	ARG	Sidechain
1	3y	221	VAL	Peptide
1	3y	87	HIS	Sidechain
1	3z	100	ARG	Sidechain
1	3z	130	TYR	Sidechain
1	3z	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	3z	143	ARG	Sidechain
1	3z	146	SER	Peptide
1	3z	162	ARG	Sidechain
1	3z	167	ARG	Sidechain
1	3z	168	PHE	Sidechain
1	4	100	ARG	Sidechain
1	4	143	ARG	Sidechain
1	4	145	TYR	Sidechain
1	4	150	ILE	Mainchain
1	4	154	ARG	Sidechain
1	4	162	ARG	Sidechain
1	4	18	ARG	Sidechain
1	4	82	ARG	Sidechain
1	40	121	ASN	Peptide
1	40	145	TYR	Sidechain
1	40	229	ARG	Sidechain
1	40	97	ARG	Sidechain
1	41	124	ILE	Peptide
1	41	145	TYR	Sidechain
1	41	226	HIS	Sidechain
1	41	62	HIS	Sidechain
1	42	100	ARG	Sidechain
1	42	132	ARG	Sidechain
1	42	145	TYR	Sidechain
1	42	146	SER	Peptide
1	42	164	TYR	Sidechain
1	42	17	PRO	Peptide
1	42	229	ARG	Sidechain
1	42	82	ARG	Sidechain
1	42	89	GLY	Peptide
1	43	132	ARG	Sidechain
1	43	173	ARG	Sidechain
1	43	18	ARG	Sidechain
1	44	121	ASN	Peptide
1	44	143	ARG	Sidechain
1	44	173	ARG	Sidechain
1	44	195	ASN	Peptide
1	44	229	ARG	Sidechain
1	45	132	ARG	Sidechain
1	45	173	ARG	Sidechain
1	45	229	ARG	Sidechain
1	46	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	46	154	ARG	Sidechain
1	46	167	ARG	Sidechain
1	46	168	PHE	Sidechain
1	46	208	ALA	Peptide
1	46	82	ARG	Sidechain
1	46	84	HIS	Sidechain
1	47	130	TYR	Sidechain
1	47	132	ARG	Sidechain
1	47	145	TYR	Sidechain
1	47	154	ARG	Sidechain
1	47	167	ARG	Sidechain
1	47	169	TYR	Sidechain
1	47	173	ARG	Sidechain
1	47	18	ARG	Sidechain
1	48	121	ASN	Peptide
1	48	132	ARG	Sidechain
1	48	173	ARG	Sidechain
1	49	121	ASN	Peptide
1	49	145	TYR	Sidechain
1	49	159	GLU	Peptide
1	49	167	ARG	Sidechain
1	49	229	ARG	Sidechain
1	4A	100	ARG	Sidechain
1	4A	130	TYR	Sidechain
1	4A	143	ARG	Sidechain
1	4A	145	TYR	Sidechain
1	4A	154	ARG	Sidechain
1	4A	161	PHE	Sidechain
1	4A	169	TYR	Sidechain
1	4A	173	ARG	Sidechain
1	4B	132	ARG	Sidechain
1	4B	169	TYR	Sidechain
1	4B	18	ARG	Sidechain
1	4B	89	GLY	Peptide
1	4C	121	ASN	Peptide
1	4C	124	ILE	Peptide
1	4C	154	ARG	Sidechain
1	4C	18	ARG	Sidechain
1	4C	229	ARG	Sidechain
1	4D	162	ARG	Sidechain
1	4D	164	TYR	Sidechain
1	4D	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	4D	84	HIS	Sidechain
1	4D	97	ARG	Sidechain
1	4E	124	ILE	Peptide
1	4E	143	ARG	Sidechain
1	4E	145	TYR	Sidechain
1	4E	169	TYR	Sidechain
1	4E	226	HIS	Sidechain
1	4E	227	LYS	Peptide
1	4E	32	PHE	Sidechain
1	4E	40	PHE	Sidechain
1	4F	121	ASN	Peptide
1	4F	130	TYR	Sidechain
1	4F	143	ARG	Sidechain
1	4F	164	TYR	Sidechain
1	4F	40	PHE	Sidechain
1	4F	82	ARG	Sidechain
1	4F	84	HIS	Sidechain
1	4G	145	TYR	Sidechain
1	4G	164	TYR	Sidechain
1	4G	167	ARG	Sidechain
1	4G	173	ARG	Sidechain
1	4H	84	HIS	Peptide
1	4I	100	ARG	Sidechain
1	4I	121	ASN	Peptide
1	4I	145	TYR	Sidechain
1	4I	42	ALA	Mainchain
1	4I	62	HIS	Sidechain
1	4I	87	HIS	Sidechain
1	4I	97	ARG	Sidechain
1	4J	145	TYR	Sidechain
1	4J	168	PHE	Sidechain
1	4J	169	TYR	Sidechain
1	4J	173	ARG	Sidechain
1	4J	18	ARG	Sidechain
1	4J	229	ARG	Sidechain
1	4K	130	TYR	Sidechain
1	4K	167	ARG	Sidechain
1	4K	169	TYR	Sidechain
1	4K	173	ARG	Sidechain
1	4K	89	GLY	Peptide
1	4L	143	ARG	Sidechain
1	4L	147	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	4L	161	PHE	Sidechain
1	4L	162	ARG	Sidechain
1	4L	168	PHE	Sidechain
1	4L	169	TYR	Sidechain
1	4L	173	ARG	Sidechain
1	4M	121	ASN	Peptide
1	4M	154	ARG	Sidechain
1	4M	169	TYR	Sidechain
1	4M	18	ARG	Sidechain
1	4N	143	ARG	Sidechain
1	4N	145	TYR	Sidechain
1	4N	169	TYR	Sidechain
1	4N	226	HIS	Sidechain
1	4N	229	ARG	Sidechain
1	4O	121	ASN	Peptide
1	4O	145	TYR	Sidechain
1	4O	164	TYR	Sidechain
1	4O	169	TYR	Sidechain
1	4P	130	TYR	Sidechain
1	4P	132	ARG	Sidechain
1	4P	167	ARG	Sidechain
1	4P	82	ARG	Sidechain
1	4Q	143	ARG	Sidechain
1	4Q	162	ARG	Sidechain
1	4Q	167	ARG	Sidechain
1	4R	132	ARG	Sidechain
1	4R	143	ARG	Sidechain
1	4R	164	TYR	Sidechain
1	4R	167	ARG	Sidechain
1	4R	229	ARG	Sidechain
1	4R	32	PHE	Sidechain
1	4R	97	ARG	Sidechain
1	4S	100	ARG	Sidechain
1	4S	159	GLU	Peptide
1	4S	162	ARG	Sidechain
1	4S	164	TYR	Sidechain
1	4S	173	ARG	Sidechain
1	4S	84	HIS	Sidechain
1	4S	97	ARG	Sidechain
1	4T	162	ARG	Sidechain
1	4T	168	PHE	Sidechain
1	4U	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	4U	121	ASN	Peptide
1	4U	154	ARG	Sidechain
1	4U	162	ARG	Sidechain
1	4U	173	ARG	Sidechain
1	4U	229	ARG	Sidechain
1	4V	130	TYR	Sidechain
1	4V	229	ARG	Sidechain
1	4W	132	ARG	Sidechain
1	4W	143	ARG	Sidechain
1	4W	145	TYR	Sidechain
1	4X	12	HIS	Sidechain
1	4X	132	ARG	Sidechain
1	4X	143	ARG	Sidechain
1	4X	62	HIS	Sidechain
1	4X	8	GLY	Peptide
1	4Y	121	ASN	Peptide
1	4Y	123	PRO	Peptide
1	4Y	145	TYR	Sidechain
1	4Y	154	ARG	Sidechain
1	4Y	16	SER	Peptide
1	4Y	162	ARG	Sidechain
1	4Y	167	ARG	Sidechain
1	4Y	173	ARG	Sidechain
1	4Y	229	ARG	Sidechain
1	4Y	87	HIS	Sidechain
1	4Z	145	TYR	Sidechain
1	4Z	229	ARG	Sidechain
1	4Z	82	ARG	Sidechain
1	4a	124	ILE	Peptide
1	4a	143	ARG	Sidechain
1	4a	154	ARG	Sidechain
1	4a	162	ARG	Sidechain
1	4a	169	TYR	Sidechain
1	4a	217	ALA	Peptide
1	4a	223	GLY	Peptide
1	4a	87	HIS	Sidechain
1	4b	143	ARG	Sidechain
1	4b	167	ARG	Sidechain
1	4b	173	ARG	Sidechain
1	4b	32	PHE	Sidechain
1	4b	89	GLY	Peptide
1	4c	12	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	4c	130	TYR	Sidechain
1	4c	162	ARG	Sidechain
1	4c	169	TYR	Sidechain
1	4c	32	PHE	Peptide
1	4c	40	PHE	Sidechain
1	4c	99	PRO	Peptide
1	4d	143	ARG	Sidechain
1	4d	161	PHE	Sidechain
1	4d	164	TYR	Sidechain
1	4d	167	ARG	Sidechain
1	4d	229	ARG	Sidechain
1	4d	97	ARG	Sidechain
1	4e	124	ILE	Peptide
1	4e	132	ARG	Sidechain
1	4e	145	TYR	Sidechain
1	4e	226	HIS	Sidechain
1	4e	229	ARG	Sidechain
1	4e	82	ARG	Sidechain
1	4e	87	HIS	Sidechain
1	4f	124	ILE	Peptide
1	4f	132	ARG	Sidechain
1	4f	226	HIS	Sidechain
1	4f	229	ARG	Sidechain
1	4g	124	ILE	Peptide
1	4g	130	TYR	Sidechain
1	4g	146	SER	Peptide
1	4g	154	ARG	Sidechain
1	4g	167	ARG	Sidechain
1	4g	18	ARG	Sidechain
1	4g	84	HIS	Peptide
1	4h	121	ASN	Peptide
1	4h	145	TYR	Sidechain
1	4h	87	HIS	Sidechain
1	4i	154	ARG	Sidechain
1	4i	18	ARG	Sidechain
1	4i	229	ARG	Sidechain
1	4i	40	PHE	Sidechain
1	4j	124	ILE	Peptide
1	4j	145	TYR	Sidechain
1	4j	228	ALA	Peptide
1	4j	230	VAL	Peptide
1	4j	33	SER	Peptide

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Mol	Chain	Res	Type	Group
1	4j	99	PRO	Peptide
1	4k	121	ASN	Peptide
1	4k	132	ARG	Sidechain
1	4k	162	ARG	Sidechain
1	4k	18	ARG	Sidechain
1	4k	229	ARG	Sidechain
1	4l	145	TYR	Sidechain
1	4l	154	ARG	Sidechain
1	4l	188	THR	Peptide
1	4l	213	GLU	Mainchain
1	4l	52	LEU	Mainchain
1	4m	105	ALA	Peptide
1	4m	121	ASN	Peptide
1	4m	132	ARG	Sidechain
1	4m	169	TYR	Sidechain
1	4m	62	HIS	Peptide
1	4m	82	ARG	Sidechain
1	4m	84	HIS	Peptide
1	4n	154	ARG	Sidechain
1	4n	169	TYR	Sidechain
1	4n	229	ARG	Sidechain
1	4o	100	ARG	Sidechain
1	4o	132	ARG	Sidechain
1	4o	145	TYR	Sidechain
1	4o	161	PHE	Sidechain
1	4o	162	ARG	Sidechain
1	4o	164	TYR	Sidechain
1	4o	169	TYR	Sidechain
1	4o	173	ARG	Sidechain
1	4o	229	ARG	Sidechain
1	4o	95	GLN	Peptide
1	4p	100	ARG	Sidechain
1	4p	162	ARG	Sidechain
1	4p	18	ARG	Sidechain
1	4p	229	ARG	Sidechain
1	4p	40	PHE	Sidechain
1	4p	87	HIS	Sidechain
1	4q	107	THR	Peptide
1	4q	121	ASN	Peptide
1	4q	130	TYR	Sidechain
1	4q	18	ARG	Sidechain
1	4q	193	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	4q	229	ARG	Sidechain
1	4r	100	ARG	Sidechain
1	4r	132	ARG	Sidechain
1	4r	145	TYR	Sidechain
1	4r	159	GLU	Peptide
1	4r	164	TYR	Sidechain
1	4r	193	ASN	Peptide
1	4r	223	GLY	Peptide
1	4s	12	HIS	Sidechain
1	4s	120	HIS	Sidechain
1	4s	145	TYR	Sidechain
1	4s	18	ARG	Sidechain
1	4s	32	PHE	Sidechain
1	4t	130	TYR	Sidechain
1	4t	162	ARG	Sidechain
1	4t	164	TYR	Sidechain
1	4u	132	ARG	Sidechain
1	4u	173	ARG	Sidechain
1	4u	18	ARG	Sidechain
1	4u	181	VAL	Mainchain
1	4u	84	HIS	Sidechain
1	4v	121	ASN	Peptide
1	4v	154	ARG	Sidechain
1	4v	173	ARG	Sidechain
1	4w	124	ILE	Peptide
1	4w	132	ARG	Sidechain
1	4w	145	TYR	Sidechain
1	4w	18	ARG	Sidechain
1	4w	193	ASN	Mainchain
1	4w	229	ARG	Sidechain
1	4w	32	PHE	Sidechain
1	4w	40	PHE	Sidechain
1	4x	169	TYR	Sidechain
1	4x	173	ARG	Sidechain
1	4x	226	HIS	Sidechain
1	4x	229	ARG	Sidechain
1	4y	132	ARG	Sidechain
1	4y	145	TYR	Sidechain
1	4y	162	ARG	Sidechain
1	4y	173	ARG	Sidechain
1	4y	62	HIS	Sidechain
1	4y	97	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	4z	130	TYR	Sidechain
1	4z	132	ARG	Sidechain
1	4z	143	ARG	Sidechain
1	4z	154	ARG	Sidechain
1	4z	229	ARG	Sidechain
1	4z	82	ARG	Sidechain
1	5	100	ARG	Sidechain
1	5	121	ASN	Peptide
1	5	124	ILE	Peptide
1	5	132	ARG	Sidechain
1	5	154	ARG	Sidechain
1	5	162	ARG	Sidechain
1	5	164	TYR	Sidechain
1	5	167	ARG	Sidechain
1	5	168	PHE	Sidechain
1	5	169	TYR	Sidechain
1	5	173	ARG	Sidechain
1	5	18	ARG	Sidechain
1	5	48	THR	Peptide
1	50	130	TYR	Sidechain
1	50	132	ARG	Sidechain
1	50	143	ARG	Sidechain
1	50	216	THR	Peptide
1	50	97	ARG	Sidechain
1	51	132	ARG	Sidechain
1	51	226	HIS	Sidechain
1	51	230	VAL	Peptide
1	52	169	TYR	Sidechain
1	52	18	ARG	Sidechain
1	53	167	ARG	Sidechain
1	53	169	TYR	Sidechain
1	54	130	TYR	Sidechain
1	54	143	ARG	Sidechain
1	54	145	TYR	Sidechain
1	55	100	ARG	Sidechain
1	55	121	ASN	Peptide
1	55	132	ARG	Sidechain
1	55	162	ARG	Sidechain
1	55	169	TYR	Sidechain
1	55	173	ARG	Sidechain
1	55	229	ARG	Sidechain
1	55	87	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	56	124	ILE	Peptide
1	56	130	TYR	Sidechain
1	56	145	TYR	Sidechain
1	56	164	TYR	Sidechain
1	56	173	ARG	Sidechain
1	56	18	ARG	Sidechain
1	56	62	HIS	Sidechain
1	56	97	ARG	Sidechain
1	57	143	ARG	Sidechain
1	57	167	ARG	Sidechain
1	57	173	ARG	Sidechain
1	57	187	GLU	Peptide
1	57	229	ARG	Sidechain
1	58	100	ARG	Sidechain
1	58	121	ASN	Peptide
1	58	143	ARG	Sidechain
1	58	164	TYR	Sidechain
1	58	40	PHE	Sidechain
1	59	132	ARG	Sidechain
1	59	162	ARG	Sidechain
1	59	164	TYR	Sidechain
1	59	18	ARG	Sidechain
1	59	229	ARG	Sidechain
1	5A	120	HIS	Sidechain
1	5A	130	TYR	Sidechain
1	5A	132	ARG	Sidechain
1	5A	139	ASN	Mainchain
1	5A	143	ARG	Sidechain
1	5A	154	ARG	Sidechain
1	5A	167	ARG	Sidechain
1	5A	169	TYR	Sidechain
1	5A	226	HIS	Sidechain
1	5A	62	HIS	Sidechain
1	5A	97	ARG	Sidechain
1	5B	143	ARG	Sidechain
1	5B	145	TYR	Sidechain
1	5B	168	PHE	Sidechain
1	5C	120	HIS	Sidechain
1	5C	130	TYR	Sidechain
1	5C	169	TYR	Sidechain
1	5D	121	ASN	Peptide
1	5D	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	5D	154	ARG	Sidechain
1	5D	167	ARG	Sidechain
1	5D	229	ARG	Sidechain
1	5D	84	HIS	Sidechain
1	5E	115	ILE	Mainchain
1	5E	143	ARG	Sidechain
1	5E	145	TYR	Sidechain
1	5E	148	THR	Peptide
1	5E	167	ARG	Sidechain
1	5E	18	ARG	Sidechain
1	5F	120	HIS	Sidechain
1	5F	143	ARG	Sidechain
1	5F	164	TYR	Sidechain
1	5F	173	ARG	Sidechain
1	5F	229	ARG	Sidechain
1	5F	82	ARG	Sidechain
1	5F	97	ARG	Sidechain
1	5G	121	ASN	Peptide
1	5G	164	TYR	Sidechain
1	5G	18	ARG	Sidechain
1	5G	226	HIS	Sidechain
1	5H	130	TYR	Sidechain
1	5H	132	ARG	Sidechain
1	5H	145	TYR	Sidechain
1	5H	154	ARG	Sidechain
1	5H	18	ARG	Sidechain
1	5H	226	HIS	Sidechain
1	5I	154	ARG	Sidechain
1	5I	162	ARG	Sidechain
1	5I	167	ARG	Sidechain
1	5I	82	ARG	Sidechain
1	5J	100	ARG	Sidechain
1	5J	120	HIS	Sidechain
1	5J	167	ARG	Sidechain
1	5J	169	TYR	Sidechain
1	5J	229	ARG	Sidechain
1	5J	84	HIS	Sidechain
1	5J	97	ARG	Sidechain
1	5K	124	ILE	Peptide
1	5K	143	ARG	Sidechain
1	5L	162	ARG	Sidechain
1	5L	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	5L	173	ARG	Sidechain
1	5L	62	HIS	Sidechain
1	5M	169	TYR	Sidechain
1	5M	18	ARG	Sidechain
1	5M	62	HIS	Sidechain
1	5M	9	GLN	Peptide
1	5M	97	ARG	Sidechain
1	5N	132	ARG	Sidechain
1	5N	40	PHE	Sidechain
1	5O	120	HIS	Sidechain
1	5O	146	SER	Peptide
1	5O	154	ARG	Sidechain
1	5O	162	ARG	Sidechain
1	5O	167	ARG	Sidechain
1	5O	229	ARG	Sidechain
1	5P	154	ARG	Sidechain
1	5P	162	ARG	Sidechain
1	5P	164	TYR	Sidechain
1	5P	167	ARG	Sidechain
1	5P	169	TYR	Sidechain
1	5P	229	ARG	Sidechain
1	5P	62	HIS	Sidechain
1	5P	97	ARG	Sidechain
1	5Q	100	ARG	Sidechain
1	5Q	124	ILE	Peptide
1	5Q	132	ARG	Sidechain
1	5Q	162	ARG	Sidechain
1	5Q	167	ARG	Sidechain
1	5Q	169	TYR	Sidechain
1	5Q	173	ARG	Sidechain
1	5Q	84	HIS	Peptide
1	5R	100	ARG	Sidechain
1	5R	154	ARG	Sidechain
1	5R	169	TYR	Sidechain
1	5R	173	ARG	Sidechain
1	5R	84	HIS	Peptide
1	5S	130	TYR	Sidechain
1	5S	132	ARG	Sidechain
1	5S	143	ARG	Sidechain
1	5S	29	GLU	Peptide
1	5T	11	VAL	Peptide
1	5T	12	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	5T	130	TYR	Sidechain
1	5T	173	ARG	Sidechain
1	5T	18	ARG	Sidechain
1	5T	226	HIS	Sidechain
1	5T	62	HIS	Sidechain
1	5T	82	ARG	Sidechain
1	5U	130	TYR	Sidechain
1	5U	143	ARG	Sidechain
1	5U	145	TYR	Sidechain
1	5U	167	ARG	Sidechain
1	5U	169	TYR	Sidechain
1	5U	229	ARG	Sidechain
1	5U	97	ARG	Sidechain
1	5V	132	ARG	Sidechain
1	5V	162	ARG	Sidechain
1	5V	82	ARG	Sidechain
1	5W	100	ARG	Sidechain
1	5W	132	ARG	Sidechain
1	5W	143	ARG	Sidechain
1	5W	154	ARG	Sidechain
1	5W	164	TYR	Sidechain
1	5W	18	ARG	Sidechain
1	5X	130	TYR	Sidechain
1	5X	132	ARG	Sidechain
1	5X	143	ARG	Sidechain
1	5X	154	ARG	Sidechain
1	5X	173	ARG	Sidechain
1	5Y	124	ILE	Peptide
1	5Z	121	ASN	Peptide
1	5Z	167	ARG	Sidechain
1	5Z	173	ARG	Sidechain
1	5Z	18	ARG	Sidechain
1	5a	132	ARG	Sidechain
1	5a	145	TYR	Sidechain
1	5a	162	ARG	Sidechain
1	5a	167	ARG	Sidechain
1	5a	169	TYR	Sidechain
1	5a	173	ARG	Sidechain
1	5b	120	HIS	Sidechain
1	5b	132	ARG	Sidechain
1	5b	143	ARG	Sidechain
1	5b	148	THR	Peptide

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Mol	Chain	Res	Type	Group
1	5b	162	ARG	Sidechain
1	5b	195	ASN	Peptide
1	5c	100	ARG	Sidechain
1	5c	121	ASN	Peptide
1	5c	130	TYR	Sidechain
1	5c	154	ARG	Sidechain
1	5c	62	HIS	Sidechain
1	5d	145	TYR	Sidechain
1	5d	161	PHE	Sidechain
1	5d	167	ARG	Sidechain
1	5d	18	ARG	Sidechain
1	5d	226	HIS	Sidechain
1	5e	229	ARG	Sidechain
1	5f	143	ARG	Sidechain
1	5f	145	TYR	Sidechain
1	5f	154	ARG	Sidechain
1	5f	162	ARG	Sidechain
1	5f	164	TYR	Sidechain
1	5f	167	ARG	Sidechain
1	5g	124	ILE	Peptide
1	5g	164	TYR	Sidechain
1	5g	189	LEU	Peptide
1	5g	2	ILE	Peptide
1	5g	226	HIS	Sidechain
1	5g	87	HIS	Sidechain
1	5h	120	HIS	Sidechain
1	5h	121	ASN	Peptide
1	5h	164	TYR	Sidechain
1	5h	169	TYR	Sidechain
1	5i	100	ARG	Sidechain
1	5i	162	ARG	Sidechain
1	5i	167	ARG	Sidechain
1	5i	173	ARG	Sidechain
1	5j	18	ARG	Sidechain
1	5k	121	ASN	Peptide
1	5k	130	TYR	Sidechain
1	5k	169	TYR	Sidechain
1	5k	173	ARG	Sidechain
1	5k	32	PHE	Sidechain
1	5k	97	ARG	Sidechain
1	5l	100	ARG	Sidechain
1	5l	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	5l	145	TYR	Sidechain
1	5l	156	GLY	Peptide
1	5l	164	TYR	Sidechain
1	5l	195	ASN	Peptide
1	5l	97	ARG	Sidechain
1	5m	12	HIS	Sidechain
1	5m	132	ARG	Sidechain
1	5m	145	TYR	Sidechain
1	5m	167	ARG	Sidechain
1	5m	173	ARG	Sidechain
1	5m	226	HIS	Sidechain
1	5n	100	ARG	Sidechain
1	5n	130	TYR	Sidechain
1	5n	164	TYR	Sidechain
1	5n	82	ARG	Sidechain
1	5o	120	HIS	Sidechain
1	5o	154	ARG	Sidechain
1	5o	164	TYR	Sidechain
1	5o	18	ARG	Sidechain
1	5o	33	SER	Peptide
1	5o	62	HIS	Sidechain
1	5o	82	ARG	Sidechain
1	5p	132	ARG	Sidechain
1	5p	145	TYR	Sidechain
1	5p	162	ARG	Sidechain
1	5p	229	ARG	Sidechain
1	5p	40	PHE	Sidechain
1	5q	130	TYR	Sidechain
1	5q	132	ARG	Sidechain
1	5q	82	ARG	Sidechain
1	5r	132	ARG	Sidechain
1	5r	145	TYR	Sidechain
1	5r	172	LEU	Peptide
1	5r	173	ARG	Sidechain
1	5r	84	HIS	Sidechain
1	5s	121	ASN	Peptide
1	5s	132	ARG	Sidechain
1	5s	167	ARG	Sidechain
1	5s	169	TYR	Sidechain
1	5s	32	PHE	Sidechain
1	5s	71	GLU	Mainchain
1	5s	97	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	5t	120	HIS	Sidechain
1	5t	142	VAL	Peptide
1	5t	145	TYR	Sidechain
1	5t	154	ARG	Sidechain
1	5t	162	ARG	Sidechain
1	5t	229	ARG	Sidechain
1	5u	132	ARG	Sidechain
1	5u	167	ARG	Sidechain
1	5u	82	ARG	Sidechain
1	5u	84	HIS	Sidechain
1	5v	154	ARG	Sidechain
1	5v	164	TYR	Sidechain
1	5v	168	PHE	Sidechain
1	5v	173	ARG	Sidechain
1	5v	29	GLU	Peptide
1	5v	62	HIS	Sidechain
1	5w	121	ASN	Peptide
1	5w	143	ARG	Sidechain
1	5w	145	TYR	Sidechain
1	5w	164	TYR	Sidechain
1	5w	226	HIS	Sidechain
1	5x	12	HIS	Sidechain
1	5x	130	TYR	Sidechain
1	5x	143	ARG	Sidechain
1	5x	168	PHE	Sidechain
1	5x	229	ARG	Sidechain
1	5x	84	HIS	Sidechain
1	5y	100	ARG	Sidechain
1	5y	121	ASN	Peptide
1	5y	130	TYR	Sidechain
1	5y	164	TYR	Sidechain
1	5y	167	ARG	Sidechain
1	5y	40	PHE	Sidechain
1	5y	87	HIS	Sidechain
1	5z	130	TYR	Sidechain
1	5z	206	GLY	Peptide
1	5z	229	ARG	Sidechain
1	5z	82	ARG	Sidechain
1	6	130	TYR	Sidechain
1	6	132	ARG	Sidechain
1	6	168	PHE	Sidechain
1	6	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	6	173	ARG	Sidechain
1	60	132	ARG	Sidechain
1	60	145	TYR	Sidechain
1	60	167	ARG	Sidechain
1	61	229	ARG	Sidechain
1	61	84	HIS	Sidechain
1	62	145	TYR	Sidechain
1	62	162	ARG	Sidechain
1	62	169	TYR	Sidechain
1	62	229	ARG	Sidechain
1	62	62	HIS	Sidechain
1	62	82	ARG	Sidechain
1	63	132	ARG	Sidechain
1	63	162	ARG	Sidechain
1	63	168	PHE	Sidechain
1	63	18	ARG	Sidechain
1	63	87	HIS	Sidechain
1	64	145	TYR	Sidechain
1	64	154	ARG	Sidechain
1	64	18	ARG	Sidechain
1	64	82	ARG	Sidechain
1	64	84	HIS	Sidechain
1	64	87	HIS	Sidechain
1	65	100	ARG	Sidechain
1	65	121	ASN	Peptide
1	65	124	ILE	Peptide
1	65	130	TYR	Sidechain
1	65	164	TYR	Sidechain
1	65	167	ARG	Sidechain
1	65	195	ASN	Peptide
1	65	82	ARG	Sidechain
1	65	84	HIS	Sidechain
1	66	18	ARG	Sidechain
1	66	97	ARG	Sidechain
1	67	124	ILE	Peptide
1	67	159	GLU	Peptide
1	67	167	ARG	Sidechain
1	67	82	ARG	Sidechain
1	67	84	HIS	Sidechain
1	68	100	ARG	Sidechain
1	68	154	ARG	Sidechain
1	68	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	68	167	ARG	Sidechain
1	68	173	ARG	Sidechain
1	68	18	ARG	Sidechain
1	68	82	ARG	Sidechain
1	69	121	ASN	Peptide
1	69	123	PRO	Peptide
1	69	143	ARG	Sidechain
1	69	229	ARG	Sidechain
1	6A	120	HIS	Sidechain
1	6A	143	ARG	Sidechain
1	6B	120	HIS	Sidechain
1	6B	121	ASN	Peptide
1	6B	132	ARG	Sidechain
1	6B	154	ARG	Sidechain
1	6B	167	ARG	Sidechain
1	6B	173	ARG	Sidechain
1	6B	84	HIS	Sidechain
1	6C	121	ASN	Peptide
1	6C	130	TYR	Sidechain
1	6C	132	ARG	Sidechain
1	6C	145	TYR	Sidechain
1	6C	162	ARG	Sidechain
1	6C	164	TYR	Sidechain
1	6C	167	ARG	Sidechain
1	6C	173	ARG	Sidechain
1	6C	82	ARG	Sidechain
1	6D	121	ASN	Peptide
1	6D	169	TYR	Sidechain
1	6D	18	ARG	Sidechain
1	6D	51	ASP	Mainchain
1	6E	12	HIS	Sidechain
1	6E	154	ARG	Sidechain
1	6E	167	ARG	Sidechain
1	6E	173	ARG	Sidechain
1	6F	143	ARG	Sidechain
1	6F	145	TYR	Sidechain
1	6F	169	TYR	Sidechain
1	6F	206	GLY	Peptide
1	6G	164	TYR	Sidechain
1	6G	82	ARG	Sidechain
1	6H	130	TYR	Sidechain
1	6H	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	6H	167	ARG	Sidechain
1	6H	169	TYR	Sidechain
1	6H	84	HIS	Sidechain
1	6I	130	TYR	Sidechain
1	6I	143	ARG	Sidechain
1	6I	154	ARG	Sidechain
1	6I	169	TYR	Sidechain
1	6I	173	ARG	Sidechain
1	6I	40	PHE	Sidechain
1	6J	161	PHE	Sidechain
1	6J	169	TYR	Sidechain
1	6J	229	ARG	Sidechain
1	6J	82	ARG	Sidechain
1	6K	120	HIS	Sidechain
1	6K	145	TYR	Sidechain
1	6K	146	SER	Peptide
1	6K	169	TYR	Sidechain
1	6K	173	ARG	Sidechain
1	6K	226	HIS	Sidechain
1	6K	32	PHE	Sidechain
1	6L	132	ARG	Sidechain
1	6L	154	ARG	Sidechain
1	6L	229	ARG	Sidechain
1	6L	32	PHE	Sidechain
1	6M	145	TYR	Sidechain
1	6M	154	ARG	Sidechain
1	6M	169	TYR	Sidechain
1	6M	173	ARG	Sidechain
1	6M	18	ARG	Sidechain
1	6M	82	ARG	Sidechain
1	6N	130	TYR	Sidechain
1	6N	145	TYR	Sidechain
1	6N	16	SER	Peptide
1	6N	167	ARG	Sidechain
1	6N	18	ARG	Sidechain
1	6N	226	HIS	Sidechain
1	6N	82	ARG	Sidechain
1	6O	132	ARG	Sidechain
1	6O	164	TYR	Sidechain
1	6O	167	ARG	Sidechain
1	6O	168	PHE	Sidechain
1	6O	32	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	6O	40	PHE	Sidechain
1	6O	84	HIS	Sidechain
1	6O	97	ARG	Sidechain
1	6P	121	ASN	Peptide
1	6P	130	TYR	Sidechain
1	6P	132	ARG	Sidechain
1	6P	143	ARG	Sidechain
1	6P	145	TYR	Sidechain
1	6P	154	ARG	Sidechain
1	6P	161	PHE	Sidechain
1	6P	162	ARG	Sidechain
1	6P	173	ARG	Sidechain
1	6P	97	ARG	Sidechain
1	6Q	100	ARG	Sidechain
1	6Q	154	ARG	Sidechain
1	6Q	164	TYR	Sidechain
1	6Q	30	LYS	Peptide
1	6R	100	ARG	Sidechain
1	6R	130	TYR	Sidechain
1	6R	143	ARG	Sidechain
1	6R	145	TYR	Sidechain
1	6R	167	ARG	Sidechain
1	6S	121	ASN	Peptide
1	6S	132	ARG	Sidechain
1	6S	162	ARG	Sidechain
1	6S	173	ARG	Sidechain
1	6T	124	ILE	Peptide
1	6T	132	ARG	Sidechain
1	6T	154	ARG	Sidechain
1	6T	167	ARG	Sidechain
1	6T	169	TYR	Sidechain
1	6T	173	ARG	Sidechain
1	6T	229	ARG	Sidechain
1	6T	32	PHE	Sidechain
1	6T	40	PHE	Sidechain
1	6T	90	PRO	Peptide
1	6U	130	TYR	Sidechain
1	6U	143	ARG	Sidechain
1	6U	154	ARG	Sidechain
1	6U	162	ARG	Sidechain
1	6U	173	ARG	Sidechain
1	6U	84	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	6U	97	ARG	Sidechain
1	6V	121	ASN	Peptide
1	6V	130	TYR	Sidechain
1	6V	145	TYR	Sidechain
1	6W	120	HIS	Sidechain
1	6W	145	TYR	Sidechain
1	6W	164	TYR	Sidechain
1	6W	167	ARG	Sidechain
1	6W	18	ARG	Sidechain
1	6W	229	ARG	Sidechain
1	6X	100	ARG	Sidechain
1	6X	162	ARG	Sidechain
1	6X	167	ARG	Sidechain
1	6X	82	ARG	Sidechain
1	6X	99	PRO	Peptide
1	6Y	100	ARG	Sidechain
1	6Y	143	ARG	Sidechain
1	6Y	154	ARG	Sidechain
1	6Y	162	ARG	Sidechain
1	6Y	168	PHE	Sidechain
1	6Y	18	ARG	Sidechain
1	6Y	82	ARG	Sidechain
1	6Z	145	TYR	Sidechain
1	6Z	146	SER	Peptide
1	6Z	162	ARG	Sidechain
1	6Z	164	TYR	Sidechain
1	6Z	169	TYR	Sidechain
1	6Z	173	ARG	Sidechain
1	6Z	229	ARG	Sidechain
1	6Z	32	PHE	Sidechain
1	6Z	97	ARG	Sidechain
1	6a	100	ARG	Sidechain
1	6a	130	TYR	Sidechain
1	6a	229	ARG	Sidechain
1	6a	82	ARG	Sidechain
1	6b	100	ARG	Sidechain
1	6b	124	ILE	Peptide
1	6b	132	ARG	Sidechain
1	6b	154	ARG	Sidechain
1	6b	164	TYR	Sidechain
1	6b	229	ARG	Sidechain
1	6c	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	6c	132	ARG	Sidechain
1	6d	100	ARG	Sidechain
1	6d	121	ASN	Peptide
1	6d	145	TYR	Sidechain
1	6d	154	ARG	Sidechain
1	6d	162	ARG	Sidechain
1	6e	100	ARG	Sidechain
1	6e	132	ARG	Sidechain
1	6e	162	ARG	Sidechain
1	6e	195	ASN	Peptide
1	6f	132	ARG	Sidechain
1	6f	145	TYR	Sidechain
1	6f	164	TYR	Sidechain
1	6f	18	ARG	Sidechain
1	6f	229	ARG	Sidechain
1	6f	62	HIS	Sidechain
1	6g	162	ARG	Sidechain
1	6g	164	TYR	Sidechain
1	6g	167	ARG	Sidechain
1	6g	169	TYR	Sidechain
1	6g	48	THR	Peptide
1	6g	97	ARG	Sidechain
1	6h	100	ARG	Sidechain
1	6h	145	TYR	Sidechain
1	6h	154	ARG	Sidechain
1	6i	143	ARG	Sidechain
1	6i	154	ARG	Sidechain
1	6i	173	ARG	Sidechain
1	6i	34	PRO	Mainchain
1	6i	62	HIS	Sidechain
1	6j	130	TYR	Sidechain
1	6j	164	TYR	Sidechain
1	6j	167	ARG	Sidechain
1	6j	173	ARG	Sidechain
1	6j	229	ARG	Sidechain
1	6j	82	ARG	Sidechain
1	6k	121	ASN	Peptide
1	6k	124	ILE	Peptide
1	6l	100	ARG	Sidechain
1	6l	132	ARG	Sidechain
1	6l	143	ARG	Sidechain
1	6l	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	6l	173	ARG	Sidechain
1	6l	229	ARG	Sidechain
1	6l	32	PHE	Sidechain
1	6l	62	HIS	Sidechain
1	6m	154	ARG	Sidechain
1	6m	168	PHE	Sidechain
1	6m	229	ARG	Sidechain
1	6m	52	LEU	Mainchain
1	6n	130	TYR	Sidechain
1	6n	143	ARG	Sidechain
1	6n	167	ARG	Sidechain
1	6o	130	TYR	Sidechain
1	6o	154	ARG	Sidechain
1	6o	161	PHE	Sidechain
1	6o	167	ARG	Sidechain
1	6o	168	PHE	Sidechain
1	6o	173	ARG	Sidechain
1	6p	154	ARG	Sidechain
1	6p	162	ARG	Sidechain
1	6p	173	ARG	Sidechain
1	6p	226	HIS	Sidechain
1	6p	87	HIS	Sidechain
1	6q	100	ARG	Sidechain
1	6q	125	PRO	Mainchain
1	6q	145	TYR	Sidechain
1	6q	164	TYR	Sidechain
1	6q	229	ARG	Sidechain
1	6r	132	ARG	Sidechain
1	6r	162	ARG	Sidechain
1	6r	164	TYR	Sidechain
1	6s	100	ARG	Sidechain
1	6s	120	HIS	Sidechain
1	6s	124	ILE	Peptide
1	6s	130	TYR	Sidechain
1	6s	167	ARG	Sidechain
1	6s	97	ARG	Sidechain
1	6t	130	TYR	Sidechain
1	6t	132	ARG	Sidechain
1	6t	229	ARG	Sidechain
1	6t	84	HIS	Peptide
1	6u	120	HIS	Sidechain
1	6u	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	6u	130	TYR	Sidechain
1	6u	143	ARG	Sidechain
1	6u	164	TYR	Sidechain
1	6u	168	PHE	Sidechain
1	6u	169	TYR	Sidechain
1	6v	100	ARG	Sidechain
1	6v	121	ASN	Peptide
1	6v	132	ARG	Sidechain
1	6v	154	ARG	Sidechain
1	6v	167	ARG	Sidechain
1	6v	32	PHE	Sidechain
1	6w	143	ARG	Sidechain
1	6w	154	ARG	Sidechain
1	6w	159	GLU	Peptide
1	6w	169	TYR	Sidechain
1	6w	173	ARG	Sidechain
1	6w	40	PHE	Sidechain
1	6x	100	ARG	Sidechain
1	6x	143	ARG	Sidechain
1	6x	145	TYR	Sidechain
1	6x	154	ARG	Sidechain
1	6x	164	TYR	Sidechain
1	6x	87	HIS	Sidechain
1	6y	143	ARG	Sidechain
1	6y	167	ARG	Sidechain
1	6z	143	ARG	Sidechain
1	6z	167	ARG	Sidechain
1	7	145	TYR	Sidechain
1	7	82	ARG	Sidechain
1	7	97	ARG	Sidechain
1	70	121	ASN	Peptide
1	70	124	ILE	Peptide
1	70	164	TYR	Sidechain
1	70	229	ARG	Sidechain
1	70	97	ARG	Sidechain
1	71	132	ARG	Sidechain
1	71	145	TYR	Sidechain
1	71	154	ARG	Sidechain
1	71	164	TYR	Sidechain
1	71	169	TYR	Sidechain
1	71	222	GLY	Mainchain
1	71	40	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	72	143	ARG	Sidechain
1	72	145	TYR	Sidechain
1	72	169	TYR	Sidechain
1	72	62	HIS	Sidechain
1	73	132	ARG	Sidechain
1	73	143	ARG	Sidechain
1	73	145	TYR	Sidechain
1	74	154	ARG	Sidechain
1	74	169	TYR	Sidechain
1	74	173	ARG	Sidechain
1	75	124	ILE	Peptide
1	75	145	TYR	Sidechain
1	75	167	ARG	Sidechain
1	75	168	PHE	Sidechain
1	75	18	ARG	Sidechain
1	75	82	ARG	Sidechain
1	75	84	HIS	Sidechain,Peptide
1	75	87	HIS	Sidechain
1	76	145	TYR	Sidechain
1	76	154	ARG	Sidechain
1	76	173	ARG	Sidechain
1	76	18	ARG	Sidechain
1	77	100	ARG	Sidechain
1	77	120	HIS	Sidechain
1	77	130	TYR	Sidechain
1	77	131	LYS	Mainchain
1	77	132	ARG	Sidechain
1	77	143	ARG	Sidechain
1	77	161	PHE	Sidechain
1	77	162	ARG	Sidechain
1	77	167	ARG	Sidechain
1	77	169	TYR	Sidechain
1	77	173	ARG	Sidechain
1	77	40	PHE	Sidechain
1	78	143	ARG	Sidechain
1	78	164	TYR	Sidechain
1	78	167	ARG	Sidechain
1	78	82	ARG	Sidechain
1	79	100	ARG	Sidechain
1	79	143	ARG	Sidechain
1	79	162	ARG	Sidechain
1	79	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	79	229	ARG	Sidechain
1	79	97	ARG	Sidechain
1	7A	121	ASN	Peptide
1	7A	132	ARG	Sidechain
1	7A	173	ARG	Sidechain
1	7A	18	ARG	Sidechain
1	7B	162	ARG	Sidechain
1	7B	164	TYR	Sidechain
1	7B	173	ARG	Sidechain
1	7B	18	ARG	Sidechain
1	7C	121	ASN	Peptide
1	7C	132	ARG	Sidechain
1	7C	154	ARG	Sidechain
1	7C	162	ARG	Sidechain
1	7C	164	TYR	Sidechain
1	7C	169	TYR	Sidechain
1	7C	82	ARG	Sidechain
1	7D	121	ASN	Peptide
1	7D	130	TYR	Sidechain
1	7D	143	ARG	Sidechain
1	7D	154	ARG	Peptide
1	7D	162	ARG	Sidechain
1	7D	164	TYR	Sidechain
1	7D	167	ARG	Sidechain
1	7D	82	ARG	Sidechain
1	7E	132	ARG	Sidechain
1	7E	162	ARG	Sidechain
1	7E	82	ARG	Sidechain
1	7F	167	ARG	Sidechain
1	7F	89	GLY	Peptide
1	7G	12	HIS	Sidechain
1	7G	124	ILE	Peptide
1	7G	154	ARG	Sidechain
1	7G	164	TYR	Sidechain
1	7G	173	ARG	Sidechain
1	7G	229	ARG	Sidechain
1	7G	40	PHE	Sidechain
1	7H	104	ILE	Mainchain
1	7H	120	HIS	Sidechain
1	7H	121	ASN	Peptide
1	7H	127	GLY	Mainchain
1	7H	145	TYR	Sidechain,Peptide

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Mol	Chain	Res	Type	Group
1	7H	18	ARG	Sidechain
1	7H	229	ARG	Sidechain
1	7H	82	ARG	Sidechain
1	7H	97	ARG	Sidechain
1	7I	132	ARG	Sidechain
1	7I	145	TYR	Sidechain
1	7I	154	ARG	Sidechain
1	7I	164	TYR	Sidechain
1	7I	166	ASP	Sidechain
1	7I	169	TYR	Sidechain
1	7I	18	ARG	Sidechain
1	7I	32	PHE	Sidechain
1	7J	120	HIS	Sidechain
1	7J	162	ARG	Sidechain
1	7J	164	TYR	Sidechain
1	7J	168	PHE	Sidechain
1	7J	173	ARG	Sidechain
1	7J	18	ARG	Sidechain
1	7J	87	HIS	Sidechain
1	7K	100	ARG	Sidechain
1	7K	132	ARG	Sidechain
1	7K	145	TYR	Sidechain
1	7K	164	TYR	Sidechain
1	7K	169	TYR	Sidechain
1	7L	132	ARG	Sidechain
1	7L	143	ARG	Sidechain
1	7L	154	ARG	Sidechain
1	7L	162	ARG	Sidechain
1	7L	169	TYR	Sidechain
1	7L	173	ARG	Sidechain
1	7L	229	ARG	Sidechain
1	7L	32	PHE	Sidechain
1	7L	97	ARG	Sidechain
1	7L	98	GLU	Mainchain
1	7M	124	ILE	Peptide
1	7M	130	TYR	Sidechain
1	7M	145	TYR	Sidechain
1	7M	168	PHE	Sidechain
1	7M	169	TYR	Sidechain
1	7M	173	ARG	Sidechain
1	7M	18	ARG	Sidechain
1	7M	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	7N	100	ARG	Sidechain
1	7N	120	HIS	Sidechain
1	7N	162	ARG	Sidechain
1	7N	173	ARG	Sidechain
1	7O	100	ARG	Sidechain
1	7O	145	TYR	Sidechain
1	7O	173	ARG	Sidechain
1	7O	82	ARG	Sidechain
1	7P	100	ARG	Sidechain
1	7P	121	ASN	Peptide
1	7P	143	ARG	Sidechain
1	7P	164	TYR	Sidechain
1	7P	167	ARG	Sidechain
1	7P	97	ARG	Sidechain
1	7Q	154	ARG	Sidechain
1	7Q	169	TYR	Sidechain
1	7Q	99	PRO	Peptide
1	7R	130	TYR	Sidechain
1	7R	145	TYR	Sidechain
1	7R	195	ASN	Peptide
1	7S	162	ARG	Sidechain
1	7S	82	ARG	Sidechain
1	7T	121	ASN	Peptide
1	7T	130	TYR	Sidechain
1	7T	162	ARG	Sidechain
1	7T	62	HIS	Sidechain
1	7T	84	HIS	Peptide
1	7U	121	ASN	Peptide
1	7U	167	ARG	Sidechain
1	7U	169	TYR	Sidechain
1	7U	223	GLY	Peptide
1	7U	82	ARG	Sidechain
1	7V	143	ARG	Sidechain
1	7V	145	TYR	Sidechain
1	7V	216	THR	Peptide
1	7V	229	ARG	Sidechain
1	7W	120	HIS	Sidechain
1	7W	145	TYR	Sidechain
1	7W	161	PHE	Sidechain
1	7W	173	ARG	Sidechain
1	7W	82	ARG	Sidechain
1	7W	87	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	7X	100	ARG	Sidechain
1	7X	130	TYR	Sidechain
1	7X	168	PHE	Sidechain
1	7X	173	ARG	Sidechain
1	7X	60	GLY	Peptide
1	7Y	124	ILE	Peptide
1	7Y	143	ARG	Sidechain
1	7Y	206	GLY	Peptide
1	7Y	62	HIS	Sidechain
1	7Y	84	HIS	Sidechain
1	7Z	100	ARG	Sidechain
1	7Z	132	ARG	Sidechain
1	7Z	143	ARG	Sidechain
1	7Z	146	SER	Peptide
1	7Z	167	ARG	Sidechain
1	7Z	226	HIS	Sidechain
1	7Z	87	HIS	Sidechain
1	7a	154	ARG	Sidechain
1	7a	167	ARG	Sidechain
1	7a	229	ARG	Sidechain
1	7a	82	ARG	Sidechain
1	7b	124	ILE	Peptide
1	7b	130	TYR	Sidechain
1	7b	145	TYR	Sidechain
1	7b	173	ARG	Sidechain
1	7c	100	ARG	Sidechain
1	7c	121	ASN	Peptide
1	7c	130	TYR	Sidechain
1	7c	132	ARG	Sidechain
1	7c	143	ARG	Sidechain
1	7c	162	ARG	Sidechain
1	7c	164	TYR	Sidechain
1	7c	167	ARG	Sidechain
1	7c	169	TYR	Sidechain
1	7c	173	ARG	Sidechain
1	7c	206	GLY	Peptide
1	7c	229	ARG	Sidechain
1	7c	92	GLU	Peptide
1	7d	100	ARG	Sidechain
1	7d	121	ASN	Peptide
1	7d	132	ARG	Sidechain
1	7d	154	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	7d	173	ARG	Sidechain
1	7d	18	ARG	Sidechain
1	7e	100	ARG	Sidechain
1	7e	124	ILE	Peptide
1	7e	130	TYR	Sidechain
1	7e	145	TYR	Sidechain
1	7e	154	ARG	Sidechain
1	7e	167	ARG	Sidechain
1	7e	87	HIS	Sidechain
1	7f	111	LEU	Mainchain
1	7f	121	ASN	Peptide
1	7f	130	TYR	Sidechain
1	7f	132	ARG	Sidechain
1	7f	154	ARG	Sidechain
1	7g	132	ARG	Sidechain
1	7g	154	ARG	Sidechain
1	7g	169	TYR	Sidechain
1	7g	18	ARG	Sidechain
1	7g	226	HIS	Sidechain
1	7g	84	HIS	Sidechain
1	7h	121	ASN	Peptide
1	7h	154	ARG	Sidechain
1	7h	161	PHE	Sidechain
1	7h	164	TYR	Sidechain
1	7h	169	TYR	Sidechain
1	7h	173	ARG	Sidechain
1	7h	61	GLY	Peptide
1	7h	82	ARG	Sidechain
1	7i	121	ASN	Peptide
1	7i	130	TYR	Sidechain
1	7i	132	ARG	Sidechain
1	7i	18	ARG	Sidechain
1	7i	229	ARG	Sidechain
1	7i	32	PHE	Sidechain
1	7i	92	GLU	Peptide
1	7j	12	HIS	Sidechain
1	7j	121	ASN	Peptide
1	7j	132	ARG	Sidechain
1	7j	162	ARG	Sidechain
1	7j	169	TYR	Sidechain
1	7j	18	ARG	Sidechain
1	7j	206	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	7k	120	HIS	Sidechain
1	7k	121	ASN	Peptide
1	7k	143	ARG	Sidechain
1	7k	154	ARG	Sidechain
1	7k	173	ARG	Sidechain
1	7k	226	HIS	Sidechain
1	7k	32	PHE	Sidechain
1	7k	99	PRO	Mainchain
1	7l	100	ARG	Sidechain
1	7l	121	ASN	Peptide
1	7l	145	TYR	Sidechain
1	7l	162	ARG	Sidechain
1	7l	164	TYR	Sidechain
1	7l	173	ARG	Sidechain
1	7l	18	ARG	Sidechain
1	7l	82	ARG	Sidechain
1	7m	121	ASN	Peptide
1	7m	161	PHE	Sidechain
1	7m	164	TYR	Sidechain
1	7m	173	ARG	Sidechain
1	7n	130	TYR	Sidechain
1	7n	145	TYR	Sidechain
1	7n	162	ARG	Sidechain
1	7n	167	ARG	Sidechain
1	7n	168	PHE	Sidechain
1	7n	173	ARG	Sidechain
1	7n	229	ARG	Sidechain
1	7o	145	TYR	Sidechain
1	7o	162	ARG	Sidechain
1	7o	169	TYR	Sidechain
1	7o	87	HIS	Sidechain
1	7p	162	ARG	Sidechain
1	7p	173	ARG	Sidechain
1	7p	32	PHE	Sidechain
1	7q	130	TYR	Sidechain
1	7q	143	ARG	Sidechain
1	7q	145	TYR	Sidechain
1	7q	167	ARG	Sidechain
1	7q	18	ARG	Sidechain
1	7q	229	ARG	Sidechain
1	7r	132	ARG	Sidechain
1	7r	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	7r	161	PHE	Sidechain
1	7r	162	ARG	Sidechain
1	7r	18	ARG	Sidechain
1	7r	229	ARG	Sidechain
1	7r	40	PHE	Sidechain
1	7r	82	ARG	Sidechain
1	7s	130	TYR	Sidechain
1	7s	145	TYR	Sidechain
1	7s	154	ARG	Sidechain
1	7s	162	ARG	Sidechain
1	7s	164	TYR	Sidechain
1	7s	173	ARG	Sidechain
1	7s	32	PHE	Sidechain
1	7s	82	ARG	Sidechain
1	7t	100	ARG	Sidechain
1	7t	145	TYR	Sidechain
1	7t	161	PHE	Sidechain
1	7t	173	ARG	Sidechain
1	7t	84	HIS	Sidechain
1	7u	145	TYR	Sidechain
1	7u	162	ARG	Sidechain
1	7u	229	ARG	Sidechain
1	7v	143	ARG	Sidechain
1	7v	154	ARG	Sidechain
1	7w	130	TYR	Sidechain
1	7w	154	ARG	Sidechain
1	7w	162	ARG	Sidechain
1	7w	18	ARG	Sidechain
1	7w	226	HIS	Sidechain
1	7w	229	ARG	Sidechain
1	7x	164	TYR	Sidechain
1	7x	167	ARG	Sidechain
1	7x	169	TYR	Sidechain
1	7x	229	ARG	Sidechain
1	7x	87	HIS	Sidechain
1	7y	143	ARG	Sidechain
1	7y	164	TYR	Sidechain
1	7y	97	ARG	Sidechain
1	7z	132	ARG	Sidechain
1	7z	145	TYR	Sidechain
1	7z	154	ARG	Sidechain
1	7z	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	7z	164	TYR	Sidechain
1	7z	167	ARG	Sidechain
1	7z	226	HIS	Sidechain
1	8	100	ARG	Sidechain
1	8	121	ASN	Peptide
1	8	145	TYR	Sidechain
1	8	154	ARG	Sidechain
1	8	169	TYR	Sidechain
1	8	40	PHE	Sidechain
1	8	70	LYS	Mainchain
1	8	82	ARG	Sidechain
1	8	87	HIS	Sidechain
1	80	121	ASN	Peptide
1	80	130	TYR	Sidechain
1	80	132	ARG	Sidechain
1	80	145	TYR	Sidechain
1	80	154	ARG	Sidechain
1	80	167	ARG	Sidechain
1	80	168	PHE	Sidechain
1	80	173	ARG	Sidechain
1	81	100	ARG	Sidechain
1	81	132	ARG	Sidechain
1	81	143	ARG	Sidechain
1	81	226	HIS	Sidechain
1	81	82	ARG	Sidechain
1	82	143	ARG	Sidechain
1	82	162	ARG	Sidechain
1	82	173	ARG	Sidechain
1	82	229	ARG	Sidechain
1	82	40	PHE	Sidechain
1	82	84	HIS	Sidechain
1	83	121	ASN	Peptide
1	83	124	ILE	Peptide
1	83	145	TYR	Sidechain
1	83	173	ARG	Sidechain
1	84	100	ARG	Sidechain
1	84	132	ARG	Sidechain
1	84	145	TYR	Sidechain
1	84	162	ARG	Sidechain
1	84	18	ARG	Sidechain
1	84	97	ARG	Sidechain
1	85	161	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	85	167	ARG	Sidechain
1	85	82	ARG	Sidechain
1	86	100	ARG	Sidechain
1	86	145	TYR	Sidechain
1	86	169	TYR	Sidechain
1	86	193	ASN	Peptide
1	86	40	PHE	Sidechain
1	87	100	ARG	Sidechain
1	87	154	ARG	Sidechain
1	87	164	TYR	Sidechain
1	87	167	ARG	Sidechain
1	87	40	PHE	Sidechain
1	87	58	THR	Peptide
1	87	62	HIS	Sidechain
1	87	97	ARG	Sidechain
1	88	12	HIS	Peptide
1	88	124	ILE	Peptide
1	88	130	TYR	Sidechain
1	88	164	TYR	Sidechain
1	88	169	TYR	Sidechain
1	88	173	ARG	Sidechain
1	88	226	HIS	Sidechain
1	88	40	PHE	Sidechain
1	88	62	HIS	Sidechain
1	89	120	HIS	Sidechain
1	89	161	PHE	Sidechain
1	89	169	TYR	Sidechain
1	89	173	ARG	Sidechain
1	89	39	MET	Mainchain
1	8A	121	ASN	Peptide
1	8A	130	TYR	Sidechain
1	8A	132	ARG	Sidechain
1	8A	145	TYR	Sidechain
1	8A	167	ARG	Sidechain
1	8A	62	HIS	Sidechain
1	8A	84	HIS	Peptide
1	8B	121	ASN	Peptide
1	8B	130	TYR	Sidechain
1	8B	145	TYR	Sidechain
1	8B	161	PHE	Sidechain
1	8B	169	TYR	Sidechain
1	8B	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	8B	213	GLU	Mainchain
1	8B	229	ARG	Sidechain
1	8B	32	PHE	Sidechain
1	8C	130	TYR	Sidechain
1	8C	132	ARG	Sidechain
1	8C	145	TYR	Sidechain
1	8C	162	ARG	Sidechain
1	8C	89	GLY	Peptide
1	8D	105	ALA	Peptide
1	8D	229	ARG	Sidechain
1	8D	32	PHE	Sidechain
1	8E	143	ARG	Sidechain
1	8E	167	ARG	Sidechain
1	8E	173	ARG	Sidechain
1	8E	18	ARG	Sidechain
1	8E	223	GLY	Peptide
1	8E	62	HIS	Sidechain
1	8F	121	ASN	Peptide
1	8F	124	ILE	Peptide
1	8F	132	ARG	Sidechain
1	8F	145	TYR	Sidechain
1	8F	147	PRO	Peptide
1	8F	167	ARG	Sidechain
1	8F	18	ARG	Sidechain
1	8F	229	ARG	Sidechain
1	8F	87	HIS	Sidechain
1	8G	132	ARG	Sidechain
1	8G	162	ARG	Sidechain
1	8G	164	TYR	Sidechain
1	8G	167	ARG	Sidechain
1	8G	173	ARG	Sidechain
1	8G	32	PHE	Sidechain
1	8G	5	ASN	Peptide
1	8H	143	ARG	Sidechain
1	8H	164	TYR	Sidechain
1	8H	167	ARG	Sidechain
1	8H	226	HIS	Sidechain
1	8I	100	ARG	Sidechain
1	8I	145	TYR	Sidechain
1	8I	169	TYR	Sidechain
1	8J	130	TYR	Sidechain
1	8J	161	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	8J	169	TYR	Sidechain
1	8J	82	ARG	Sidechain
1	8K	145	TYR	Sidechain
1	8K	82	ARG	Sidechain
1	8L	100	ARG	Sidechain
1	8L	145	TYR	Sidechain
1	8L	154	ARG	Sidechain
1	8L	229	ARG	Sidechain
1	8M	100	ARG	Sidechain
1	8M	154	ARG	Sidechain
1	8M	167	ARG	Sidechain
1	8M	62	HIS	Sidechain
1	8N	100	ARG	Sidechain
1	8N	121	ASN	Peptide
1	8N	145	TYR	Sidechain
1	8N	229	ARG	Sidechain
1	8O	121	ASN	Peptide
1	8O	145	TYR	Sidechain
1	8O	154	ARG	Sidechain
1	8O	226	HIS	Sidechain
1	8P	100	ARG	Sidechain
1	8P	145	TYR	Sidechain
1	8P	169	TYR	Sidechain
1	8P	18	ARG	Sidechain
1	8P	97	ARG	Sidechain
1	8Q	120	HIS	Sidechain
1	8Q	130	TYR	Sidechain
1	8Q	169	TYR	Sidechain
1	8Q	82	ARG	Sidechain
1	8Q	97	ARG	Sidechain
1	8R	121	ASN	Peptide
1	8R	130	TYR	Sidechain
1	8R	143	ARG	Sidechain
1	8R	145	TYR	Sidechain
1	8R	154	ARG	Sidechain
1	8R	169	TYR	Sidechain
1	8R	173	ARG	Sidechain
1	8S	132	ARG	Sidechain
1	8S	156	GLY	Peptide
1	8S	164	TYR	Sidechain
1	8S	169	TYR	Sidechain
1	8S	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	8S	62	HIS	Sidechain
1	8S	82	ARG	Sidechain
1	8T	105	ALA	Peptide
1	8T	154	ARG	Sidechain
1	8T	162	ARG	Sidechain
1	8U	116	GLY	Mainchain
1	8U	130	TYR	Sidechain
1	8U	143	ARG	Sidechain
1	8U	145	TYR	Sidechain
1	8U	165	VAL	Mainchain
1	8U	40	PHE	Sidechain
1	8U	82	ARG	Sidechain
1	8V	120	HIS	Sidechain
1	8V	121	ASN	Peptide
1	8V	161	PHE	Sidechain
1	8V	162	ARG	Sidechain
1	8W	100	ARG	Sidechain
1	8W	162	ARG	Sidechain
1	8W	164	TYR	Sidechain
1	8W	167	ARG	Sidechain
1	8W	191	VAL	Mainchain
1	8X	100	ARG	Sidechain
1	8X	12	HIS	Sidechain
1	8X	120	HIS	Sidechain
1	8X	124	ILE	Peptide
1	8X	145	TYR	Sidechain
1	8X	167	ARG	Sidechain
1	8X	173	ARG	Sidechain
1	8X	216	THR	Peptide
1	8X	229	ARG	Sidechain,Peptide
1	8Y	100	ARG	Sidechain
1	8Y	121	ASN	Peptide
1	8Y	124	ILE	Peptide
1	8Y	130	TYR	Sidechain
1	8Y	18	ARG	Sidechain
1	8Z	154	ARG	Sidechain
1	8Z	173	ARG	Sidechain
1	8a	124	ILE	Peptide
1	8a	162	ARG	Sidechain
1	8a	167	ARG	Sidechain
1	8a	169	TYR	Sidechain
1	8a	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	8b	130	TYR	Sidechain
1	8b	173	ARG	Sidechain
1	8b	97	ARG	Sidechain
1	8c	145	TYR	Sidechain
1	8c	167	ARG	Sidechain
1	8c	169	TYR	Sidechain
1	8c	229	ARG	Sidechain
1	8c	30	LYS	Peptide
1	8c	84	HIS	Peptide
1	8d	100	ARG	Sidechain
1	8d	124	ILE	Peptide
1	8d	132	ARG	Sidechain
1	8d	148	THR	Peptide
1	8d	160	PRO	Peptide
1	8d	40	PHE	Sidechain
1	8d	82	ARG	Sidechain
1	8e	100	ARG	Sidechain
1	8e	121	ASN	Peptide
1	8e	124	ILE	Peptide
1	8e	130	TYR	Sidechain
1	8f	100	ARG	Sidechain
1	8f	121	ASN	Peptide
1	8f	143	ARG	Sidechain
1	8f	167	ARG	Sidechain
1	8f	229	ARG	Sidechain
1	8g	100	ARG	Sidechain
1	8g	124	ILE	Peptide
1	8g	143	ARG	Sidechain
1	8g	145	TYR	Sidechain
1	8g	82	ARG	Sidechain
1	8g	84	HIS	Sidechain
1	8h	143	ARG	Sidechain
1	8h	173	ARG	Sidechain
1	8h	87	HIS	Sidechain
1	8i	121	ASN	Peptide
1	8i	143	ARG	Sidechain
1	8i	145	TYR	Sidechain
1	8i	154	ARG	Sidechain
1	8i	167	ARG	Sidechain
1	8i	173	ARG	Sidechain
1	8i	62	HIS	Sidechain
1	8j	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	8j	143	ARG	Sidechain
1	8j	229	ARG	Sidechain
1	8j	82	ARG	Sidechain
1	8k	135	ILE	Mainchain
1	8k	143	ARG	Sidechain
1	8k	145	TYR	Sidechain
1	8k	154	ARG	Sidechain
1	8k	169	TYR	Sidechain
1	8k	62	HIS	Sidechain
1	8l	143	ARG	Sidechain
1	8l	161	PHE	Sidechain
1	8l	164	TYR	Sidechain
1	8l	167	ARG	Sidechain
1	8l	168	PHE	Sidechain
1	8l	173	ARG	Sidechain
1	8l	18	ARG	Sidechain
1	8l	229	ARG	Sidechain
1	8l	30	LYS	Peptide
1	8m	130	TYR	Sidechain
1	8m	132	ARG	Sidechain
1	8m	161	PHE	Sidechain
1	8m	164	TYR	Sidechain
1	8m	167	ARG	Sidechain
1	8m	18	ARG	Sidechain
1	8n	120	HIS	Sidechain
1	8n	162	ARG	Sidechain
1	8n	167	ARG	Sidechain
1	8o	124	ILE	Peptide
1	8o	164	TYR	Sidechain
1	8o	40	PHE	Sidechain
1	8p	124	ILE	Peptide
1	8p	132	ARG	Sidechain
1	8p	143	ARG	Sidechain
1	8p	145	TYR	Sidechain
1	8p	223	GLY	Peptide
1	8p	229	ARG	Sidechain
1	8p	40	PHE	Sidechain
1	8q	161	PHE	Sidechain
1	8q	162	ARG	Sidechain
1	8q	167	ARG	Sidechain
1	8q	168	PHE	Sidechain
1	8q	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	8r	130	TYR	Sidechain
1	8r	159	GLU	Peptide
1	8r	162	ARG	Sidechain
1	8r	169	TYR	Sidechain
1	8r	229	ARG	Sidechain
1	8s	145	TYR	Sidechain
1	8s	162	ARG	Sidechain
1	8s	173	ARG	Sidechain
1	8s	18	ARG	Sidechain
1	8s	226	HIS	Sidechain
1	8s	62	HIS	Sidechain
1	8t	124	ILE	Peptide
1	8t	130	TYR	Sidechain
1	8t	145	TYR	Sidechain
1	8t	162	ARG	Sidechain
1	8t	167	ARG	Sidechain
1	8t	168	PHE	Sidechain
1	8t	82	ARG	Sidechain
1	8u	123	PRO	Peptide
1	8u	130	TYR	Sidechain
1	8u	18	ARG	Sidechain
1	8v	121	ASN	Peptide
1	8v	130	TYR	Sidechain
1	8v	143	ARG	Sidechain
1	8v	145	TYR	Sidechain
1	8v	154	ARG	Sidechain
1	8v	167	ARG	Sidechain
1	8v	18	ARG	Sidechain
1	8v	205	LEU	Peptide
1	8v	78	ALA	Mainchain
1	8v	82	ARG	Sidechain
1	8w	132	ARG	Sidechain
1	8w	143	ARG	Sidechain
1	8x	121	ASN	Peptide
1	8x	132	ARG	Sidechain
1	8x	154	ARG	Sidechain
1	8x	164	TYR	Sidechain
1	8y	121	ASN	Peptide
1	8y	164	TYR	Sidechain
1	8z	121	ASN	Peptide
1	8z	124	ILE	Peptide
1	8z	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	8z	169	TYR	Sidechain
1	8z	82	ARG	Sidechain
1	9	100	ARG	Sidechain
1	9	132	ARG	Sidechain
1	9	164	TYR	Sidechain
1	9	168	PHE	Sidechain
1	9	226	HIS	Sidechain
1	9	92	GLU	Peptide
1	90	130	TYR	Sidechain
1	90	145	TYR	Sidechain
1	90	167	ARG	Sidechain
1	90	168	PHE	Sidechain
1	90	18	ARG	Sidechain
1	90	29	GLU	Peptide
1	90	82	ARG	Sidechain
1	91	154	ARG	Sidechain
1	91	77	ALA	Mainchain
1	92	124	ILE	Peptide
1	92	132	ARG	Sidechain
1	92	143	ARG	Sidechain
1	92	156	GLY	Peptide
1	92	167	ARG	Sidechain
1	92	173	ARG	Sidechain
1	92	18	ARG	Sidechain
1	92	82	ARG	Sidechain
1	93	130	TYR	Sidechain
1	93	145	TYR	Sidechain
1	93	162	ARG	Sidechain
1	93	62	HIS	Sidechain
1	94	130	TYR	Sidechain
1	94	154	ARG	Sidechain
1	94	162	ARG	Sidechain
1	94	167	ARG	Sidechain
1	94	84	HIS	Sidechain
1	95	130	TYR	Sidechain
1	95	145	TYR	Sidechain
1	95	195	ASN	Peptide
1	95	88	ALA	Peptide
1	96	124	ILE	Peptide
1	96	154	ARG	Sidechain
1	96	159	GLU	Peptide
1	96	226	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	97	124	ILE	Peptide
1	97	130	TYR	Sidechain
1	97	145	TYR	Sidechain
1	97	154	ARG	Sidechain
1	97	82	ARG	Sidechain
1	98	100	ARG	Sidechain
1	98	130	TYR	Sidechain
1	98	143	ARG	Sidechain
1	98	164	TYR	Sidechain
1	98	173	ARG	Sidechain
1	98	82	ARG	Sidechain
1	99	143	ARG	Sidechain
1	99	162	ARG	Sidechain
1	99	169	TYR	Sidechain
1	9A	130	TYR	Sidechain
1	9A	164	TYR	Sidechain
1	9A	169	TYR	Sidechain
1	9A	18	ARG	Sidechain
1	9B	120	HIS	Sidechain
1	9B	130	TYR	Sidechain
1	9B	145	TYR	Sidechain
1	9B	154	ARG	Sidechain
1	9B	164	TYR	Sidechain
1	9B	169	TYR	Sidechain
1	9B	18	ARG	Sidechain
1	9B	82	ARG	Sidechain
1	9C	121	ASN	Peptide
1	9C	132	ARG	Sidechain
1	9C	145	TYR	Sidechain
1	9C	154	ARG	Sidechain
1	9C	229	ARG	Sidechain
1	9D	12	HIS	Sidechain
1	9D	121	ASN	Peptide
1	9D	124	ILE	Peptide
1	9D	130	TYR	Sidechain
1	9D	145	TYR	Sidechain
1	9D	164	TYR	Sidechain
1	9E	124	ILE	Peptide
1	9E	145	TYR	Sidechain
1	9E	164	TYR	Sidechain
1	9E	229	ARG	Sidechain
1	9E	32	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	9F	100	ARG	Sidechain
1	9F	132	ARG	Sidechain
1	9F	173	ARG	Sidechain
1	9F	40	PHE	Sidechain
1	9G	100	ARG	Sidechain
1	9G	143	ARG	Sidechain
1	9G	145	TYR	Sidechain
1	9G	154	ARG	Sidechain
1	9G	164	TYR	Sidechain
1	9G	198	CYS	Mainchain
1	9G	226	HIS	Sidechain
1	9H	120	HIS	Sidechain
1	9H	132	ARG	Sidechain
1	9H	143	ARG	Sidechain
1	9H	162	ARG	Sidechain
1	9H	84	HIS	Sidechain
1	9I	121	ASN	Peptide
1	9I	124	ILE	Peptide
1	9I	145	TYR	Sidechain
1	9I	154	ARG	Sidechain
1	9I	162	ARG	Sidechain
1	9I	167	ARG	Sidechain
1	9J	124	ILE	Peptide
1	9J	48	THR	Peptide
1	9K	100	ARG	Sidechain
1	9K	121	ASN	Peptide
1	9K	145	TYR	Sidechain
1	9K	173	ARG	Sidechain
1	9K	9	GLN	Peptide
1	9L	124	ILE	Peptide
1	9L	132	ARG	Sidechain
1	9L	164	TYR	Sidechain
1	9L	169	TYR	Sidechain
1	9M	145	TYR	Sidechain
1	9M	146	SER	Peptide
1	9M	147	PRO	Peptide
1	9M	229	ARG	Sidechain
1	9M	82	ARG	Sidechain
1	9M	84	HIS	Sidechain
1	9N	100	ARG	Sidechain
1	9N	169	TYR	Sidechain
1	9N	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	9N	226	HIS	Sidechain
1	9N	84	HIS	Peptide
1	9O	130	TYR	Sidechain
1	9O	132	ARG	Sidechain
1	9O	145	TYR	Sidechain
1	9O	154	ARG	Sidechain
1	9O	161	PHE	Sidechain
1	9O	162	ARG	Sidechain
1	9O	169	TYR	Sidechain
1	9O	173	ARG	Sidechain
1	9O	226	HIS	Sidechain
1	9O	229	ARG	Sidechain
1	9P	100	ARG	Sidechain
1	9P	145	TYR	Sidechain
1	9P	154	ARG	Sidechain
1	9P	161	PHE	Sidechain
1	9P	167	ARG	Sidechain
1	9P	97	ARG	Sidechain
1	9Q	143	ARG	Sidechain
1	9Q	164	TYR	Sidechain
1	9Q	173	ARG	Sidechain
1	9Q	62	HIS	Sidechain
1	9R	132	ARG	Sidechain
1	9R	164	TYR	Sidechain
1	9S	124	ILE	Peptide
1	9S	169	TYR	Sidechain
1	9S	226	HIS	Sidechain
1	9S	82	ARG	Sidechain
1	9S	87	HIS	Sidechain
1	9T	130	TYR	Sidechain
1	9T	145	TYR	Sidechain
1	9T	164	TYR	Sidechain
1	9T	169	TYR	Sidechain
1	9T	32	PHE	Sidechain
1	9T	40	PHE	Sidechain
1	9T	82	ARG	Sidechain
1	9T	84	HIS	Sidechain
1	9U	130	TYR	Sidechain
1	9U	154	ARG	Sidechain
1	9U	161	PHE	Sidechain
1	9U	167	ARG	Sidechain
1	9U	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	9V	154	ARG	Sidechain
1	9V	164	TYR	Sidechain
1	9V	95	GLN	Peptide
1	9W	121	ASN	Peptide
1	9W	124	ILE	Peptide
1	9W	154	ARG	Sidechain
1	9W	229	ARG	Sidechain
1	9W	40	PHE	Sidechain
1	9W	82	ARG	Sidechain
1	9X	130	TYR	Sidechain
1	9X	132	ARG	Sidechain
1	9X	143	ARG	Sidechain
1	9X	154	ARG	Sidechain
1	9X	164	TYR	Sidechain
1	9X	173	ARG	Sidechain
1	9X	18	ARG	Sidechain
1	9X	82	ARG	Sidechain
1	9Y	124	ILE	Peptide
1	9Y	130	TYR	Sidechain
1	9Y	132	ARG	Sidechain
1	9Y	145	TYR	Sidechain
1	9Y	161	PHE	Sidechain
1	9Y	164	TYR	Sidechain
1	9Y	168	PHE	Sidechain
1	9Y	173	ARG	Sidechain
1	9Y	18	ARG	Sidechain
1	9Y	32	PHE	Sidechain
1	9Z	154	ARG	Sidechain
1	9Z	162	ARG	Sidechain
1	9Z	169	TYR	Sidechain
1	9Z	82	ARG	Sidechain
1	9a	121	ASN	Peptide
1	9a	143	ARG	Sidechain
1	9a	145	TYR	Sidechain
1	9a	154	ARG	Sidechain
1	9a	193	ASN	Peptide
1	9a	229	ARG	Sidechain
1	9b	117	TRP	Mainchain
1	9b	130	TYR	Sidechain
1	9b	143	ARG	Sidechain
1	9b	40	PHE	Sidechain
1	9b	62	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	9b	82	ARG	Sidechain
1	9c	132	ARG	Sidechain
1	9c	143	ARG	Sidechain
1	9c	162	ARG	Sidechain
1	9c	164	TYR	Sidechain
1	9c	167	ARG	Sidechain
1	9c	173	ARG	Sidechain
1	9d	132	ARG	Sidechain
1	9d	143	ARG	Sidechain
1	9d	145	TYR	Sidechain
1	9d	164	TYR	Sidechain
1	9d	169	TYR	Sidechain
1	9d	173	ARG	Sidechain
1	9d	229	ARG	Sidechain
1	9d	40	PHE	Sidechain
1	9d	82	ARG	Sidechain
1	9d	9	GLN	Peptide
1	9d	97	ARG	Sidechain
1	9e	124	ILE	Peptide
1	9e	143	ARG	Sidechain
1	9e	145	TYR	Sidechain
1	9e	162	ARG	Sidechain
1	9e	169	TYR	Sidechain
1	9e	82	ARG	Sidechain
1	9e	84	HIS	Sidechain
1	9f	100	ARG	Sidechain
1	9f	124	ILE	Peptide
1	9f	130	TYR	Sidechain
1	9f	154	ARG	Sidechain
1	9f	16	SER	Peptide
1	9f	162	ARG	Sidechain
1	9f	167	ARG	Sidechain
1	9f	169	TYR	Sidechain
1	9f	226	HIS	Sidechain
1	9f	43	LEU	Peptide
1	9g	100	ARG	Sidechain
1	9g	132	ARG	Sidechain
1	9g	145	TYR	Sidechain
1	9g	162	ARG	Sidechain
1	9g	164	TYR	Sidechain
1	9g	229	ARG	Sidechain
1	9g	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	9g	84	HIS	Sidechain
1	9h	121	ASN	Peptide
1	9h	130	TYR	Sidechain
1	9h	143	ARG	Sidechain
1	9h	154	ARG	Sidechain
1	9h	169	TYR	Sidechain
1	9h	226	HIS	Sidechain
1	9h	229	ARG	Sidechain
1	9h	87	HIS	Sidechain
1	9i	121	ASN	Peptide
1	9i	123	PRO	Peptide
1	9i	145	TYR	Sidechain
1	9i	169	TYR	Sidechain
1	9i	18	ARG	Sidechain
1	9i	62	HIS	Sidechain
1	9j	120	HIS	Sidechain
1	9j	130	TYR	Sidechain
1	9j	153	ILE	Peptide
1	9j	168	PHE	Sidechain
1	9j	18	ARG	Sidechain
1	9j	87	HIS	Peptide
1	9j	97	ARG	Sidechain
1	9k	121	ASN	Peptide
1	9k	164	TYR	Sidechain
1	9k	82	ARG	Sidechain
1	9l	100	ARG	Sidechain
1	9l	121	ASN	Peptide
1	9l	169	TYR	Sidechain
1	9l	226	HIS	Sidechain
1	9l	40	PHE	Sidechain
1	9l	97	ARG	Sidechain
1	9m	107	THR	Mainchain
1	9m	121	ASN	Peptide
1	9m	145	TYR	Sidechain
1	9m	164	TYR	Sidechain
1	9n	100	ARG	Sidechain
1	9n	121	ASN	Peptide
1	9n	132	ARG	Sidechain
1	9n	164	TYR	Sidechain
1	9n	167	ARG	Sidechain
1	9n	168	PHE	Sidechain
1	9n	172	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	9n	84	HIS	Sidechain,Peptide
1	9o	124	ILE	Peptide
1	9o	130	TYR	Sidechain
1	9o	132	ARG	Sidechain
1	9o	143	ARG	Sidechain
1	9o	154	ARG	Sidechain
1	9o	164	TYR	Sidechain
1	9o	18	ARG	Sidechain
1	9p	121	ASN	Peptide
1	9p	124	ILE	Peptide
1	9p	132	ARG	Sidechain
1	9p	143	ARG	Sidechain
1	9p	154	ARG	Sidechain
1	9p	164	TYR	Sidechain
1	9p	167	ARG	Sidechain
1	9p	82	ARG	Sidechain
1	9p	84	HIS	Sidechain
1	9q	121	ASN	Peptide
1	9q	130	TYR	Sidechain
1	9q	162	ARG	Sidechain
1	9q	167	ARG	Sidechain
1	9q	229	ARG	Sidechain
1	9q	40	PHE	Sidechain
1	9q	82	ARG	Sidechain
1	9r	100	ARG	Sidechain
1	9r	124	ILE	Peptide
1	9r	164	TYR	Sidechain
1	9r	18	ARG	Sidechain
1	9r	82	ARG	Sidechain
1	9r	84	HIS	Peptide
1	9s	145	TYR	Sidechain
1	9s	154	ARG	Sidechain
1	9s	167	ARG	Sidechain
1	9s	18	ARG	Sidechain
1	9s	40	PHE	Sidechain
1	9s	97	ARG	Sidechain
1	9t	124	ILE	Peptide
1	9t	143	ARG	Sidechain
1	9t	145	TYR	Sidechain
1	9t	147	PRO	Peptide
1	9t	169	TYR	Sidechain
1	9t	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	9t	32	PHE	Sidechain
1	9t	62	HIS	Sidechain
1	9t	97	ARG	Sidechain
1	9u	130	TYR	Sidechain
1	9u	143	ARG	Sidechain
1	9u	154	ARG	Sidechain
1	9u	167	ARG	Sidechain
1	9u	173	ARG	Sidechain
1	9v	143	ARG	Sidechain
1	9v	161	PHE	Sidechain
1	9v	162	ARG	Sidechain
1	9v	167	ARG	Sidechain
1	9v	173	ARG	Sidechain
1	9v	37	ILE	Peptide
1	9v	84	HIS	Sidechain
1	9w	120	HIS	Sidechain
1	9w	161	PHE	Sidechain
1	9w	87	HIS	Sidechain
1	9x	132	ARG	Sidechain
1	9x	164	TYR	Sidechain
1	9x	18	ARG	Sidechain
1	9y	132	ARG	Mainchain
1	9y	162	ARG	Sidechain
1	9y	164	TYR	Sidechain
1	9y	167	ARG	Sidechain
1	9z	130	TYR	Sidechain
1	9z	167	ARG	Sidechain
1	9z	82	ARG	Sidechain
1	A	132	ARG	Sidechain
1	A	154	ARG	Sidechain
1	A	164	TYR	Sidechain
1	A	169	TYR	Sidechain
1	A	173	ARG	Sidechain
1	A	18	ARG	Sidechain
1	A	206	GLY	Peptide
1	A	48	THR	Peptide
1	A	82	ARG	Sidechain
1	B	82	ARG	Sidechain
1	B	87	HIS	Sidechain
1	C	130	TYR	Sidechain
1	C	143	ARG	Sidechain
1	C	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	C	169	TYR	Sidechain
1	C	97	ARG	Peptide
1	D	120	HIS	Sidechain
1	D	124	ILE	Peptide
1	D	143	ARG	Sidechain
1	D	145	TYR	Sidechain
1	D	161	PHE	Sidechain
1	D	167	ARG	Sidechain
1	D	173	ARG	Sidechain
1	D	40	PHE	Sidechain
1	D	82	ARG	Sidechain
1	D	84	HIS	Sidechain
1	E	132	ARG	Sidechain
1	E	159	GLU	Peptide
1	F	124	ILE	Peptide
1	F	153	ILE	Peptide
1	F	162	ARG	Sidechain
1	F	168	PHE	Sidechain
1	F	84	HIS	Sidechain
1	F	87	HIS	Sidechain
1	G	12	HIS	Sidechain
1	G	132	ARG	Sidechain
1	G	154	ARG	Sidechain
1	G	167	ARG	Sidechain
1	G	168	PHE	Sidechain
1	G	97	ARG	Sidechain
1	H	154	ARG	Sidechain
1	H	169	TYR	Sidechain
1	H	40	PHE	Sidechain
1	I	121	ASN	Peptide
1	I	130	TYR	Sidechain
1	I	143	ARG	Sidechain
1	I	164	TYR	Sidechain
1	J	124	ILE	Peptide
1	J	132	ARG	Sidechain
1	J	154	ARG	Sidechain
1	J	167	ARG	Sidechain
1	K	100	ARG	Sidechain
1	K	121	ASN	Peptide
1	K	145	TYR	Sidechain
1	K	167	ARG	Sidechain
1	K	168	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	K	18	ARG	Sidechain
1	L	100	ARG	Sidechain
1	L	121	ASN	Peptide
1	L	132	ARG	Sidechain
1	L	154	ARG	Sidechain
1	L	162	ARG	Sidechain
1	L	167	ARG	Sidechain
1	L	173	ARG	Sidechain
1	L	229	ARG	Sidechain
1	M	130	TYR	Sidechain
1	M	143	ARG	Sidechain
1	M	145	TYR	Sidechain
1	M	154	ARG	Sidechain
1	M	162	ARG	Sidechain
1	M	164	TYR	Sidechain
1	M	168	PHE	Sidechain
1	M	229	ARG	Peptide
1	M	87	HIS	Sidechain
1	N	130	TYR	Sidechain
1	N	143	ARG	Sidechain
1	N	145	TYR	Sidechain
1	N	164	TYR	Sidechain
1	N	167	ARG	Sidechain
1	N	169	TYR	Sidechain
1	N	173	ARG	Sidechain
1	N	229	ARG	Sidechain
1	N	82	ARG	Sidechain
1	N	84	HIS	Sidechain
1	O	121	ASN	Peptide
1	O	124	ILE	Peptide
1	O	130	TYR	Sidechain
1	O	154	ARG	Sidechain
1	O	164	TYR	Sidechain
1	O	168	PHE	Sidechain
1	O	18	ARG	Sidechain
1	O	186	THR	Mainchain
1	O	32	PHE	Sidechain
1	P	12	HIS	Sidechain
1	P	121	ASN	Peptide
1	P	143	ARG	Sidechain
1	P	169	TYR	Sidechain
1	P	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	P	197	ASP	Sidechain
1	P	226	HIS	Sidechain
1	Q	167	ARG	Sidechain
1	Q	229	ARG	Sidechain
1	Q	82	ARG	Sidechain
1	R	143	ARG	Sidechain
1	R	145	TYR	Sidechain
1	R	161	PHE	Sidechain
1	R	164	TYR	Sidechain
1	R	168	PHE	Sidechain
1	R	169	TYR	Sidechain
1	R	229	ARG	Sidechain
1	R	82	ARG	Sidechain
1	S	110	THR	Peptide
1	S	162	ARG	Sidechain
1	S	32	PHE	Sidechain
1	T	120	HIS	Sidechain
1	T	164	TYR	Sidechain
1	T	169	TYR	Sidechain
1	T	61	GLY	Peptide
1	U	124	ILE	Peptide
1	U	169	TYR	Sidechain
1	U	18	ARG	Sidechain
1	U	226	HIS	Mainchain
1	V	121	ASN	Peptide
1	V	130	TYR	Sidechain
1	V	132	ARG	Sidechain
1	V	143	ARG	Sidechain
1	V	145	TYR	Sidechain
1	V	229	ARG	Sidechain
1	V	91	ILE	Peptide
1	W	130	TYR	Sidechain
1	W	216	THR	Peptide
1	W	97	ARG	Sidechain
1	X	146	SER	Peptide
1	X	164	TYR	Sidechain
1	Y	157	PRO	Mainchain
1	Y	164	TYR	Sidechain
1	Z	84	HIS	Sidechain
1	Z	97	ARG	Sidechain
1	a	121	ASN	Peptide
1	a	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	a	145	TYR	Sidechain
1	a	167	ARG	Sidechain
1	a	173	ARG	Sidechain
1	a	229	ARG	Sidechain
1	a	97	ARG	Sidechain
1	a0	124	ILE	Peptide
1	a0	132	ARG	Sidechain
1	a0	143	ARG	Sidechain
1	a0	145	TYR	Sidechain
1	a0	164	TYR	Sidechain
1	a0	167	ARG	Sidechain
1	a0	173	ARG	Sidechain
1	a0	18	ARG	Sidechain
1	a0	229	ARG	Sidechain
1	a1	100	ARG	Sidechain
1	a1	161	PHE	Sidechain
1	a1	169	TYR	Sidechain
1	a1	97	ARG	Sidechain
1	a2	12	HIS	Sidechain
1	a2	164	TYR	Sidechain
1	a2	2	ILE	Peptide
1	a3	100	ARG	Sidechain
1	a3	162	ARG	Sidechain
1	a3	173	ARG	Sidechain
1	a3	206	GLY	Peptide
1	a4	124	ILE	Peptide
1	a4	143	ARG	Sidechain
1	a4	146	SER	Peptide
1	a4	162	ARG	Sidechain
1	a4	167	ARG	Sidechain
1	a4	169	TYR	Sidechain
1	a4	32	PHE	Sidechain
1	a4	87	HIS	Sidechain
1	a5	161	PHE	Sidechain
1	a5	162	ARG	Sidechain
1	a5	164	TYR	Sidechain
1	a5	229	ARG	Sidechain
1	a5	62	HIS	Mainchain
1	a6	100	ARG	Sidechain
1	a6	130	TYR	Sidechain
1	a6	132	ARG	Sidechain
1	a6	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	a6	167	ARG	Sidechain
1	a6	229	ARG	Sidechain
1	a7	120	HIS	Sidechain
1	a7	130	TYR	Sidechain
1	a7	154	ARG	Sidechain
1	a7	173	ARG	Sidechain
1	a7	87	HIS	Sidechain
1	a8	167	ARG	Sidechain
1	a8	173	ARG	Sidechain
1	a8	218	CYS	Peptide
1	a9	121	ASN	Peptide
1	a9	130	TYR	Sidechain
1	a9	145	TYR	Sidechain
1	a9	161	PHE	Sidechain
1	a9	169	TYR	Sidechain
1	a9	92	GLU	Peptide
1	aA	130	TYR	Sidechain
1	aA	164	TYR	Sidechain
1	aA	173	ARG	Sidechain
1	aA	48	THR	Peptide
1	aA	62	HIS	Sidechain
1	aB	130	TYR	Sidechain
1	aB	145	TYR	Sidechain
1	aB	161	PHE	Sidechain
1	aB	18	ARG	Sidechain
1	aC	121	ASN	Peptide
1	aC	143	ARG	Sidechain
1	aC	145	TYR	Sidechain
1	aC	168	PHE	Sidechain
1	aC	82	ARG	Sidechain
1	aC	88	ALA	Peptide
1	aD	130	TYR	Sidechain
1	aD	162	ARG	Sidechain
1	aD	164	TYR	Sidechain
1	aD	169	TYR	Sidechain
1	aD	82	ARG	Sidechain
1	aE	120	HIS	Sidechain
1	aE	124	ILE	Peptide
1	aE	132	ARG	Sidechain
1	aE	169	TYR	Sidechain
1	aE	37	ILE	Peptide
1	aF	120	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	aF	145	TYR	Sidechain
1	aF	154	ARG	Sidechain
1	aF	168	PHE	Sidechain
1	aF	18	ARG	Sidechain
1	aF	40	PHE	Sidechain
1	aG	162	ARG	Sidechain
1	aG	164	TYR	Sidechain
1	aG	167	ARG	Sidechain
1	aG	18	ARG	Sidechain
1	aG	82	ARG	Sidechain
1	aH	124	ILE	Peptide
1	aH	154	ARG	Sidechain
1	aH	167	ARG	Sidechain
1	aI	5	ASN	Peptide
1	aI	82	ARG	Sidechain
1	aJ	100	ARG	Sidechain
1	aJ	164	TYR	Sidechain
1	aJ	173	ARG	Sidechain
1	aK	145	TYR	Sidechain
1	aK	154	ARG	Sidechain
1	aK	164	TYR	Sidechain
1	aK	169	TYR	Sidechain
1	aK	18	ARG	Sidechain
1	aK	229	ARG	Sidechain
1	aK	77	ALA	Mainchain
1	aK	82	ARG	Sidechain
1	aK	84	HIS	Peptide
1	aL	120	HIS	Sidechain
1	aL	145	TYR	Sidechain
1	aL	167	ARG	Sidechain
1	aL	169	TYR	Sidechain
1	aL	84	HIS	Sidechain
1	aM	100	ARG	Sidechain
1	aM	121	ASN	Peptide
1	aM	145	TYR	Sidechain
1	aM	162	ARG	Sidechain
1	aM	173	ARG	Sidechain
1	aN	132	ARG	Sidechain
1	aN	162	ARG	Sidechain
1	aN	226	HIS	Sidechain
1	aO	100	ARG	Sidechain
1	aO	120	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	aO	132	ARG	Sidechain
1	aO	143	ARG	Sidechain
1	aO	145	TYR	Sidechain
1	aO	154	ARG	Sidechain
1	aO	229	ARG	Sidechain
1	aO	40	PHE	Sidechain
1	aO	82	ARG	Sidechain
1	aP	143	ARG	Sidechain
1	aP	159	GLU	Peptide
1	aP	162	ARG	Sidechain
1	aP	164	TYR	Sidechain
1	aP	32	PHE	Sidechain
1	aP	84	HIS	Sidechain,Peptide
1	aQ	121	ASN	Peptide
1	aQ	143	ARG	Sidechain
1	aQ	169	TYR	Sidechain
1	aQ	229	ARG	Sidechain
1	aR	145	TYR	Sidechain
1	aR	18	ARG	Sidechain
1	aR	229	ARG	Sidechain
1	aR	82	ARG	Sidechain
1	aR	84	HIS	Sidechain
1	aS	100	ARG	Sidechain
1	aS	121	ASN	Peptide
1	aS	154	ARG	Sidechain
1	aS	162	ARG	Sidechain
1	aS	167	ARG	Sidechain
1	aS	229	ARG	Sidechain
1	aS	82	ARG	Sidechain
1	aT	145	TYR	Sidechain
1	aT	169	TYR	Sidechain
1	aU	100	ARG	Sidechain
1	aU	143	ARG	Sidechain
1	aU	167	ARG	Sidechain
1	aU	169	TYR	Sidechain
1	aU	229	ARG	Sidechain,Peptide
1	aU	87	HIS	Sidechain
1	aU	97	ARG	Sidechain
1	aV	120	HIS	Sidechain
1	aV	130	TYR	Sidechain
1	aV	167	ARG	Sidechain
1	aV	168	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	aV	18	ARG	Sidechain
1	aV	229	ARG	Sidechain
1	aV	84	HIS	Sidechain
1	aV	97	ARG	Sidechain
1	aW	120	HIS	Sidechain
1	aW	130	TYR	Sidechain
1	aW	145	TYR	Sidechain
1	aW	154	ARG	Sidechain
1	aW	32	PHE	Sidechain
1	aX	130	TYR	Sidechain
1	aX	145	TYR	Sidechain
1	aX	162	ARG	Sidechain
1	aX	167	ARG	Sidechain
1	aX	169	TYR	Sidechain
1	aX	229	ARG	Sidechain
1	aX	32	PHE	Sidechain
1	aX	82	ARG	Sidechain
1	aY	132	ARG	Sidechain
1	aY	162	ARG	Sidechain
1	aY	167	ARG	Sidechain
1	aY	201	ILE	Mainchain
1	aY	206	GLY	Peptide
1	aY	223	GLY	Peptide
1	aY	82	ARG	Sidechain
1	aZ	100	ARG	Sidechain
1	aZ	120	HIS	Sidechain
1	aZ	130	TYR	Sidechain
1	aZ	143	ARG	Sidechain
1	aZ	164	TYR	Sidechain
1	aZ	169	TYR	Sidechain
1	aZ	173	ARG	Sidechain
1	aZ	18	ARG	Sidechain
1	aZ	40	PHE	Sidechain
1	aZ	82	ARG	Sidechain
1	aa	143	ARG	Sidechain
1	aa	145	TYR	Sidechain
1	aa	164	TYR	Sidechain
1	aa	173	ARG	Sidechain
1	ab	100	ARG	Sidechain
1	ab	132	ARG	Sidechain
1	ab	145	TYR	Sidechain
1	ab	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	ab	168	PHE	Sidechain
1	ab	226	HIS	Sidechain
1	ab	229	ARG	Sidechain
1	ac	130	TYR	Sidechain
1	ac	132	ARG	Sidechain
1	ac	167	ARG	Sidechain
1	ac	18	ARG	Sidechain
1	ac	229	ARG	Sidechain
1	ac	62	HIS	Sidechain
1	ac	82	ARG	Sidechain
1	ac	84	HIS	Sidechain
1	ad	130	TYR	Sidechain
1	ad	132	ARG	Sidechain
1	ad	143	ARG	Sidechain
1	ad	145	TYR	Sidechain
1	ad	18	ARG	Sidechain
1	ad	97	ARG	Sidechain
1	ae	100	ARG	Sidechain
1	ae	12	HIS	Sidechain
1	ae	145	TYR	Sidechain
1	ae	168	PHE	Sidechain
1	ae	169	TYR	Sidechain
1	ae	82	ARG	Sidechain
1	ae	97	ARG	Sidechain
1	af	100	ARG	Sidechain
1	af	145	TYR	Sidechain
1	af	161	PHE	Sidechain
1	af	168	PHE	Sidechain
1	af	229	ARG	Sidechain
1	ag	12	HIS	Sidechain
1	ag	143	ARG	Sidechain
1	ag	164	TYR	Sidechain
1	ag	167	ARG	Sidechain
1	ag	169	TYR	Sidechain
1	ag	173	ARG	Sidechain
1	ag	84	HIS	Sidechain
1	ah	143	ARG	Sidechain
1	ah	162	ARG	Sidechain
1	ah	167	ARG	Sidechain
1	ah	169	TYR	Sidechain
1	ai	145	TYR	Sidechain
1	ai	154	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ai	164	TYR	Sidechain
1	ai	169	TYR	Sidechain
1	ai	62	HIS	Sidechain
1	ai	82	ARG	Sidechain
1	ai	97	ARG	Sidechain
1	aj	100	ARG	Sidechain
1	aj	130	TYR	Sidechain
1	aj	143	ARG	Sidechain
1	aj	154	ARG	Sidechain
1	aj	97	ARG	Sidechain
1	ak	173	ARG	Sidechain
1	al	124	ILE	Peptide
1	al	145	TYR	Sidechain
1	al	164	TYR	Sidechain
1	al	169	TYR	Sidechain
1	al	87	HIS	Sidechain
1	am	124	ILE	Peptide
1	am	167	ARG	Sidechain
1	am	169	TYR	Sidechain
1	am	32	PHE	Sidechain
1	am	82	ARG	Sidechain
1	am	87	HIS	Sidechain
1	an	132	ARG	Sidechain
1	an	143	ARG	Sidechain
1	an	31	ALA	Peptide
1	ao	121	ASN	Peptide
1	ao	130	TYR	Sidechain
1	ao	145	TYR	Sidechain
1	ao	162	ARG	Sidechain
1	ao	167	ARG	Sidechain
1	ao	169	TYR	Sidechain
1	ao	32	PHE	Peptide
1	ap	121	ASN	Peptide
1	ap	130	TYR	Sidechain
1	ap	143	ARG	Sidechain
1	ap	162	ARG	Sidechain
1	ap	167	ARG	Sidechain
1	ap	173	ARG	Sidechain
1	ap	18	ARG	Sidechain
1	ap	34	PRO	Peptide
1	aq	119	THR	Peptide
1	aq	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	aq	130	TYR	Sidechain
1	aq	173	ARG	Sidechain
1	aq	18	ARG	Sidechain
1	ar	154	ARG	Sidechain
1	ar	82	ARG	Sidechain
1	ar	99	PRO	Peptide
1	as	121	ASN	Peptide
1	as	143	ARG	Sidechain
1	as	162	ARG	Sidechain
1	as	164	TYR	Sidechain
1	as	97	ARG	Sidechain
1	at	100	ARG	Sidechain
1	at	132	ARG	Sidechain
1	at	162	ARG	Sidechain
1	at	164	TYR	Sidechain
1	at	87	HIS	Sidechain
1	au	100	ARG	Sidechain
1	au	143	ARG	Sidechain
1	au	154	ARG	Sidechain
1	au	164	TYR	Sidechain
1	au	167	ARG	Sidechain
1	au	173	ARG	Sidechain
1	av	12	HIS	Sidechain
1	av	124	ILE	Peptide
1	av	130	TYR	Sidechain
1	av	145	TYR	Sidechain
1	av	167	ARG	Sidechain
1	av	18	ARG	Sidechain
1	av	229	ARG	Sidechain
1	av	87	HIS	Sidechain
1	aw	121	ASN	Peptide
1	aw	154	ARG	Sidechain
1	aw	161	PHE	Sidechain
1	aw	169	TYR	Sidechain
1	aw	18	ARG	Sidechain
1	aw	82	ARG	Sidechain
1	ax	100	ARG	Sidechain
1	ax	130	TYR	Sidechain
1	ax	132	ARG	Sidechain
1	ax	154	ARG	Sidechain
1	ax	160	PRO	Mainchain
1	ax	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ax	169	TYR	Sidechain
1	ax	173	ARG	Sidechain
1	ax	18	ARG	Sidechain
1	ax	229	ARG	Sidechain
1	ay	143	ARG	Sidechain
1	ay	18	ARG	Sidechain
1	ay	97	ARG	Sidechain
1	az	145	TYR	Sidechain
1	az	161	PHE	Sidechain
1	az	162	ARG	Sidechain
1	az	167	ARG	Sidechain
1	az	168	PHE	Sidechain
1	az	173	ARG	Sidechain
1	az	82	ARG	Sidechain
1	b	145	TYR	Sidechain
1	b	169	TYR	Sidechain
1	b	173	ARG	Sidechain
1	b	18	ARG	Sidechain
1	b	229	ARG	Sidechain
1	b	57	ASN	Peptide
1	b0	100	ARG	Sidechain
1	b0	12	HIS	Sidechain
1	b0	121	ASN	Peptide
1	b0	167	ARG	Sidechain
1	b1	124	ILE	Peptide
1	b1	130	TYR	Sidechain
1	b1	143	ARG	Sidechain
1	b1	145	TYR	Sidechain
1	b1	162	ARG	Sidechain
1	b1	164	TYR	Sidechain
1	b1	167	ARG	Sidechain
1	b1	48	THR	Peptide
1	b1	97	ARG	Sidechain
1	b2	130	TYR	Sidechain
1	b2	162	ARG	Sidechain
1	b2	169	TYR	Sidechain
1	b2	173	ARG	Sidechain
1	b2	229	ARG	Sidechain
1	b2	82	ARG	Sidechain
1	b3	100	ARG	Sidechain
1	b3	130	TYR	Sidechain
1	b3	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	b3	146	SER	Peptide
1	b3	154	ARG	Sidechain
1	b3	161	PHE	Sidechain
1	b3	167	ARG	Sidechain
1	b3	21	ASN	Sidechain
1	b3	37	ILE	Peptide
1	b3	62	HIS	Sidechain
1	b4	100	ARG	Sidechain
1	b4	132	ARG	Sidechain
1	b4	162	ARG	Sidechain
1	b4	169	TYR	Sidechain
1	b4	18	ARG	Sidechain
1	b4	32	PHE	Sidechain
1	b4	82	ARG	Sidechain
1	b5	130	TYR	Sidechain
1	b5	143	ARG	Sidechain
1	b5	167	ARG	Sidechain
1	b5	169	TYR	Sidechain
1	b5	226	HIS	Sidechain
1	b5	32	PHE	Sidechain
1	b5	84	HIS	Sidechain
1	b6	100	ARG	Sidechain
1	b6	132	ARG	Sidechain
1	b6	145	TYR	Sidechain
1	b6	146	SER	Peptide
1	b6	154	ARG	Sidechain
1	b6	162	ARG	Sidechain
1	b6	37	ILE	Peptide
1	b6	58	THR	Mainchain
1	b7	132	ARG	Sidechain
1	b7	167	ARG	Sidechain
1	b7	173	ARG	Sidechain
1	b7	226	HIS	Sidechain
1	b8	161	PHE	Sidechain
1	b8	18	ARG	Sidechain
1	b8	217	ALA	Peptide
1	b9	121	ASN	Peptide
1	b9	130	TYR	Sidechain
1	b9	167	ARG	Sidechain
1	bA	154	ARG	Sidechain
1	bA	164	TYR	Sidechain
1	bA	40	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	bA	62	HIS	Sidechain
1	bB	120	HIS	Sidechain
1	bB	130	TYR	Sidechain
1	bB	145	TYR	Sidechain
1	bB	154	ARG	Sidechain
1	bB	18	ARG	Sidechain
1	bB	192	GLN	Sidechain
1	bB	32	PHE	Sidechain
1	bB	82	ARG	Sidechain
1	bC	100	ARG	Sidechain
1	bC	120	HIS	Sidechain
1	bC	145	TYR	Sidechain
1	bC	162	ARG	Sidechain
1	bC	169	TYR	Sidechain
1	bC	173	ARG	Sidechain
1	bC	229	ARG	Sidechain
1	bD	100	ARG	Sidechain
1	bD	145	TYR	Sidechain
1	bD	167	ARG	Sidechain
1	bD	229	ARG	Sidechain
1	bE	100	ARG	Sidechain
1	bE	12	HIS	Sidechain
1	bE	121	ASN	Peptide
1	bE	124	ILE	Peptide
1	bE	130	TYR	Sidechain
1	bE	132	ARG	Sidechain
1	bE	162	ARG	Sidechain
1	bE	164	TYR	Sidechain
1	bE	167	ARG	Sidechain
1	bE	168	PHE	Sidechain
1	bE	32	PHE	Sidechain
1	bE	62	HIS	Sidechain
1	bF	124	ILE	Peptide
1	bF	130	TYR	Sidechain
1	bF	143	ARG	Sidechain
1	bF	164	TYR	Sidechain
1	bF	18	ARG	Sidechain
1	bF	229	ARG	Sidechain
1	bF	40	PHE	Sidechain
1	bG	132	ARG	Sidechain
1	bG	143	ARG	Sidechain
1	bG	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	bG	229	ARG	Sidechain
1	bH	121	ASN	Peptide
1	bH	132	ARG	Sidechain
1	bH	143	ARG	Sidechain
1	bH	154	ARG	Sidechain
1	bH	162	ARG	Sidechain
1	bH	229	ARG	Sidechain
1	bI	121	ASN	Peptide
1	bI	132	ARG	Sidechain
1	bI	143	ARG	Sidechain
1	bI	168	PHE	Sidechain
1	bI	82	ARG	Sidechain
1	bI	84	HIS	Sidechain
1	bJ	154	ARG	Sidechain
1	bJ	167	ARG	Sidechain
1	bJ	169	TYR	Sidechain
1	bJ	32	PHE	Sidechain
1	bJ	84	HIS	Peptide
1	bJ	96	MET	Peptide
1	bK	161	PHE	Sidechain
1	bK	162	ARG	Sidechain
1	bK	164	TYR	Sidechain
1	bK	173	ARG	Sidechain
1	bK	62	HIS	Sidechain
1	bL	143	ARG	Sidechain
1	bL	154	ARG	Sidechain
1	bL	169	TYR	Sidechain
1	bL	173	ARG	Sidechain
1	bL	3	VAL	Peptide
1	bM	121	ASN	Peptide
1	bM	132	ARG	Sidechain
1	bM	169	TYR	Sidechain
1	bM	18	ARG	Mainchain
1	bM	87	HIS	Peptide
1	bN	130	TYR	Sidechain
1	bN	164	TYR	Sidechain
1	bN	167	ARG	Sidechain
1	bN	173	ARG	Sidechain
1	bN	229	ARG	Sidechain
1	bN	32	PHE	Peptide
1	bO	162	ARG	Sidechain
1	bO	32	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	bP	145	TYR	Sidechain
1	bP	154	ARG	Sidechain
1	bP	161	PHE	Sidechain
1	bQ	100	ARG	Sidechain
1	bQ	156	GLY	Peptide
1	bQ	173	ARG	Sidechain
1	bR	100	ARG	Sidechain
1	bR	120	HIS	Sidechain
1	bR	121	ASN	Peptide
1	bR	124	ILE	Peptide
1	bR	132	ARG	Sidechain
1	bR	143	ARG	Sidechain
1	bR	145	TYR	Sidechain
1	bR	162	ARG	Sidechain
1	bR	173	ARG	Sidechain
1	bR	18	ARG	Sidechain
1	bR	229	ARG	Sidechain
1	bR	84	HIS	Sidechain
1	bR	97	ARG	Sidechain
1	bS	143	ARG	Sidechain
1	bS	167	ARG	Sidechain
1	bS	217	ALA	Peptide
1	bS	229	ARG	Sidechain
1	bS	32	PHE	Sidechain
1	bT	100	ARG	Sidechain
1	bT	130	TYR	Sidechain
1	bT	132	ARG	Sidechain
1	bT	167	ARG	Sidechain
1	bT	173	ARG	Sidechain
1	bT	226	HIS	Sidechain
1	bU	124	ILE	Peptide
1	bU	18	ARG	Sidechain
1	bU	226	HIS	Sidechain
1	bU	229	ARG	Sidechain
1	bU	32	PHE	Sidechain
1	bV	124	ILE	Peptide
1	bV	130	TYR	Sidechain
1	bV	143	ARG	Sidechain
1	bV	48	THR	Peptide
1	bV	84	HIS	Sidechain
1	bV	89	GLY	Peptide
1	bW	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	bW	120	HIS	Sidechain
1	bW	130	TYR	Sidechain
1	bW	143	ARG	Sidechain
1	bW	145	TYR	Sidechain
1	bW	154	ARG	Sidechain
1	bW	162	ARG	Sidechain
1	bW	18	ARG	Sidechain
1	bW	84	HIS	Sidechain
1	bX	121	ASN	Peptide
1	bX	143	ARG	Sidechain
1	bX	162	ARG	Sidechain
1	bY	100	ARG	Sidechain
1	bY	130	TYR	Sidechain
1	bY	145	TYR	Sidechain
1	bY	40	PHE	Sidechain
1	bY	82	ARG	Sidechain
1	bZ	100	ARG	Sidechain
1	bZ	121	ASN	Peptide
1	bZ	154	ARG	Sidechain
1	bZ	162	ARG	Sidechain
1	bZ	173	ARG	Sidechain
1	bZ	197	ASP	Sidechain
1	bZ	87	HIS	Sidechain
1	ba	121	ASN	Peptide
1	ba	124	ILE	Peptide
1	ba	132	ARG	Sidechain
1	ba	154	ARG	Sidechain
1	ba	169	TYR	Sidechain
1	ba	173	ARG	Sidechain
1	ba	18	ARG	Sidechain
1	bb	124	ILE	Peptide
1	bb	130	TYR	Sidechain
1	bb	143	ARG	Sidechain
1	bb	145	TYR	Sidechain
1	bb	164	TYR	Sidechain
1	bb	167	ARG	Sidechain
1	bc	121	ASN	Peptide
1	bc	154	ARG	Peptide
1	bc	162	ARG	Sidechain
1	bc	164	TYR	Sidechain
1	bc	169	TYR	Sidechain
1	bc	173	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	bd	132	ARG	Sidechain
1	bd	229	ARG	Sidechain
1	be	169	TYR	Sidechain
1	be	173	ARG	Sidechain
1	be	219	GLN	Mainchain
1	bf	121	ASN	Peptide
1	bf	130	TYR	Sidechain
1	bf	143	ARG	Sidechain
1	bf	159	GLU	Peptide
1	bf	164	TYR	Sidechain
1	bf	167	ARG	Sidechain
1	bf	62	HIS	Sidechain
1	bf	82	ARG	Sidechain
1	bg	121	ASN	Peptide
1	bg	143	ARG	Sidechain
1	bg	168	PHE	Sidechain
1	bg	173	ARG	Sidechain
1	bg	223	GLY	Peptide
1	bg	32	PHE	Peptide
1	bh	121	ASN	Peptide
1	bh	169	TYR	Sidechain
1	bh	173	ARG	Sidechain
1	bh	32	PHE	Peptide
1	bi	121	ASN	Peptide
1	bi	130	TYR	Sidechain
1	bi	154	ARG	Sidechain
1	bi	167	ARG	Sidechain
1	bi	29	GLU	Peptide
1	bi	32	PHE	Sidechain
1	bi	97	ARG	Mainchain
1	bj	164	TYR	Sidechain
1	bj	188	THR	Peptide
1	bj	229	ARG	Sidechain
1	bj	82	ARG	Sidechain
1	bj	84	HIS	Sidechain
1	bk	12	HIS	Sidechain
1	bk	130	TYR	Sidechain
1	bk	143	ARG	Sidechain
1	bk	168	PHE	Sidechain
1	bk	86	VAL	Mainchain
1	bk	97	ARG	Sidechain
1	bl	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	bl	143	ARG	Sidechain
1	bl	145	TYR	Sidechain
1	bl	18	ARG	Sidechain
1	bm	121	ASN	Peptide
1	bm	130	TYR	Sidechain
1	bm	143	ARG	Sidechain
1	bm	154	ARG	Sidechain
1	bm	164	TYR	Sidechain
1	bm	169	TYR	Sidechain
1	bm	18	ARG	Sidechain
1	bm	32	PHE	Peptide
1	bm	40	PHE	Sidechain
1	bm	62	HIS	Sidechain
1	bn	130	TYR	Sidechain
1	bn	143	ARG	Sidechain
1	bn	154	ARG	Sidechain
1	bn	161	PHE	Sidechain
1	bn	173	ARG	Sidechain
1	bn	18	ARG	Sidechain
1	bo	121	ASN	Peptide
1	bo	132	ARG	Sidechain
1	bo	164	TYR	Sidechain
1	bo	54	THR	Mainchain
1	bo	62	HIS	Sidechain
1	bo	96	MET	Peptide
1	bp	145	TYR	Sidechain
1	bp	167	ARG	Sidechain
1	bp	30	LYS	Peptide
1	bq	100	ARG	Sidechain
1	bq	12	HIS	Sidechain
1	bq	143	ARG	Sidechain
1	bq	169	TYR	Sidechain
1	bq	229	ARG	Sidechain
1	bq	31	ALA	Mainchain
1	bq	62	HIS	Sidechain
1	bq	97	ARG	Sidechain
1	br	12	HIS	Sidechain
1	br	130	TYR	Sidechain
1	br	145	TYR	Sidechain
1	br	164	TYR	Sidechain
1	br	167	ARG	Sidechain
1	br	168	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	br	96	MET	Peptide
1	br	97	ARG	Sidechain
1	bs	120	HIS	Sidechain
1	bs	121	ASN	Peptide
1	bs	132	ARG	Sidechain
1	bs	162	ARG	Sidechain
1	bs	167	ARG	Sidechain
1	bs	58	THR	Mainchain
1	bt	121	ASN	Peptide
1	bt	132	ARG	Sidechain
1	bt	164	TYR	Sidechain
1	bu	124	ILE	Peptide
1	bu	173	ARG	Sidechain
1	bv	145	TYR	Sidechain
1	bv	154	ARG	Sidechain
1	bv	162	ARG	Sidechain
1	bv	164	TYR	Sidechain
1	bv	168	PHE	Sidechain
1	bv	169	TYR	Sidechain
1	bw	132	ARG	Sidechain
1	bw	143	ARG	Sidechain
1	bw	162	ARG	Sidechain
1	bw	169	TYR	Sidechain
1	bw	229	ARG	Sidechain
1	bx	100	ARG	Sidechain
1	bx	120	HIS	Sidechain
1	bx	130	TYR	Sidechain
1	bx	143	ARG	Sidechain
1	bx	145	TYR	Sidechain
1	bx	154	ARG	Sidechain
1	bx	167	ARG	Sidechain
1	bx	169	TYR	Sidechain
1	bx	97	ARG	Sidechain
1	by	145	TYR	Sidechain
1	by	164	TYR	Sidechain
1	by	169	TYR	Sidechain
1	by	229	ARG	Sidechain
1	by	82	ARG	Sidechain
1	bz	130	TYR	Sidechain
1	bz	143	ARG	Sidechain
1	bz	154	ARG	Sidechain
1	bz	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	bz	18	ARG	Sidechain
1	bz	6	LEU	Peptide
1	bz	82	ARG	Sidechain
1	c	100	ARG	Sidechain
1	c	132	ARG	Sidechain
1	c	143	ARG	Sidechain
1	c	145	TYR	Sidechain
1	c	154	ARG	Sidechain
1	c	159	GLU	Peptide
1	c	162	ARG	Sidechain
1	c0	130	TYR	Sidechain
1	c0	143	ARG	Sidechain
1	c0	155	GLN	Sidechain
1	c0	164	TYR	Sidechain
1	c0	18	ARG	Sidechain
1	c0	82	ARG	Sidechain
1	c0	87	HIS	Sidechain
1	c1	121	ASN	Peptide
1	c1	143	ARG	Sidechain
1	c1	145	TYR	Sidechain
1	c1	18	ARG	Sidechain
1	c2	130	TYR	Sidechain
1	c2	132	ARG	Sidechain
1	c2	154	ARG	Sidechain
1	c2	161	PHE	Sidechain
1	c2	89	GLY	Peptide
1	c3	100	ARG	Sidechain
1	c3	120	HIS	Sidechain
1	c3	145	TYR	Sidechain
1	c3	162	ARG	Sidechain
1	c3	164	TYR	Sidechain
1	c3	169	TYR	Sidechain
1	c4	100	ARG	Sidechain
1	c4	124	ILE	Peptide
1	c4	130	TYR	Sidechain
1	c4	140	LYS	Mainchain
1	c4	167	ARG	Sidechain
1	c4	173	ARG	Sidechain
1	c4	82	ARG	Sidechain
1	c4	92	GLU	Peptide
1	c5	12	HIS	Sidechain
1	c5	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	c5	164	TYR	Sidechain
1	c5	173	ARG	Sidechain
1	c6	167	ARG	Sidechain
1	c7	100	ARG	Sidechain
1	c7	121	ASN	Peptide
1	c7	132	ARG	Sidechain
1	c7	143	ARG	Sidechain
1	c7	154	ARG	Sidechain
1	c7	164	TYR	Sidechain
1	c8	124	ILE	Peptide
1	c8	130	TYR	Sidechain
1	c8	154	ARG	Sidechain
1	c8	167	ARG	Sidechain
1	c9	100	ARG	Sidechain
1	c9	146	SER	Peptide
1	c9	154	ARG	Sidechain
1	c9	229	ARG	Sidechain
1	cA	124	ILE	Peptide
1	cA	130	TYR	Sidechain,Mainchain
1	cA	162	ARG	Sidechain
1	cA	97	ARG	Sidechain
1	cB	121	ASN	Peptide
1	cB	169	TYR	Sidechain
1	cB	18	ARG	Sidechain
1	cB	226	HIS	Sidechain
1	cB	229	ARG	Sidechain
1	cB	32	PHE	Sidechain
1	cB	50	GLN	Mainchain
1	cC	100	ARG	Sidechain
1	cC	132	ARG	Sidechain
1	cC	154	ARG	Sidechain
1	cC	162	ARG	Sidechain
1	cC	193	ASN	Peptide
1	cD	124	ILE	Peptide
1	cD	145	TYR	Sidechain
1	cD	162	ARG	Sidechain
1	cD	167	ARG	Sidechain
1	cE	132	ARG	Sidechain
1	cE	162	ARG	Sidechain
1	cE	167	ARG	Sidechain
1	cE	173	ARG	Sidechain
1	cF	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	cF	145	TYR	Sidechain
1	cG	154	ARG	Sidechain
1	cG	161	PHE	Sidechain
1	cG	164	TYR	Sidechain
1	cH	164	TYR	Sidechain
1	cH	195	ASN	Peptide
1	cH	204	ALA	Mainchain
1	cH	32	PHE	Sidechain
1	cH	62	HIS	Sidechain
1	cH	84	HIS	Sidechain,Peptide
1	cI	132	ARG	Sidechain
1	cI	145	TYR	Sidechain
1	cI	164	TYR	Sidechain
1	cI	229	ARG	Sidechain
1	cJ	132	ARG	Sidechain
1	cJ	145	TYR	Sidechain
1	cJ	164	TYR	Sidechain
1	cJ	169	TYR	Sidechain
1	cJ	173	ARG	Sidechain
1	cK	100	ARG	Sidechain
1	cK	154	ARG	Sidechain
1	cK	18	ARG	Sidechain
1	cK	52	LEU	Mainchain
1	cL	100	ARG	Sidechain
1	cL	143	ARG	Sidechain
1	cL	152	ASP	Mainchain
1	cL	164	TYR	Sidechain
1	cL	82	ARG	Sidechain
1	cM	132	ARG	Sidechain
1	cM	143	ARG	Sidechain
1	cM	62	HIS	Sidechain
1	cM	82	ARG	Sidechain
1	cN	132	ARG	Sidechain
1	cN	167	ARG	Sidechain
1	cN	18	ARG	Sidechain
1	cN	195	ASN	Peptide
1	cN	8	GLY	Peptide
1	cO	120	HIS	Sidechain
1	cO	143	ARG	Sidechain
1	cO	15	ILE	Peptide
1	cO	154	ARG	Sidechain
1	cO	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	cO	229	ARG	Sidechain
1	cP	100	ARG	Sidechain
1	cP	32	PHE	Sidechain
1	cQ	100	ARG	Sidechain
1	cQ	120	HIS	Sidechain
1	cQ	130	TYR	Sidechain
1	cQ	143	ARG	Sidechain
1	cQ	154	ARG	Sidechain
1	cQ	168	PHE	Sidechain
1	cQ	169	TYR	Sidechain
1	cQ	87	HIS	Sidechain
1	cQ	97	ARG	Sidechain
1	cR	143	ARG	Sidechain
1	cR	164	TYR	Sidechain
1	cR	40	PHE	Sidechain
1	cS	120	HIS	Sidechain
1	cS	18	ARG	Sidechain
1	cS	40	PHE	Sidechain
1	cS	84	HIS	Sidechain
1	cT	100	ARG	Sidechain
1	cT	121	ASN	Peptide
1	cT	132	ARG	Sidechain
1	cT	145	TYR	Sidechain
1	cT	148	THR	Peptide
1	cT	154	ARG	Sidechain
1	cT	162	ARG	Sidechain
1	cT	173	ARG	Sidechain
1	cT	214	MET	Mainchain
1	cT	32	PHE	Sidechain
1	cT	82	ARG	Sidechain
1	cU	100	ARG	Sidechain
1	cU	145	TYR	Sidechain
1	cU	154	ARG	Sidechain
1	cU	161	PHE	Sidechain
1	cU	164	TYR	Sidechain
1	cU	229	ARG	Sidechain
1	cU	82	ARG	Sidechain
1	cU	97	ARG	Sidechain
1	cV	130	TYR	Sidechain
1	cV	143	ARG	Sidechain
1	cV	162	ARG	Sidechain
1	cV	40	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	cV	97	ARG	Sidechain
1	cW	100	ARG	Sidechain
1	cW	121	ASN	Peptide
1	cW	124	ILE	Peptide
1	cW	143	ARG	Sidechain
1	cW	145	TYR	Sidechain
1	cW	154	ARG	Sidechain
1	cW	162	ARG	Sidechain
1	cW	18	ARG	Sidechain
1	cW	97	ARG	Sidechain
1	cX	143	ARG	Sidechain
1	cX	145	TYR	Sidechain
1	cX	164	TYR	Sidechain
1	cX	169	TYR	Sidechain
1	cX	82	ARG	Sidechain
1	cY	118	MET	Mainchain
1	cY	164	TYR	Sidechain
1	cY	169	TYR	Sidechain
1	cY	18	ARG	Sidechain
1	cZ	132	ARG	Sidechain
1	cZ	145	TYR	Sidechain
1	cZ	164	TYR	Sidechain
1	cZ	18	ARG	Sidechain
1	cZ	229	ARG	Sidechain
1	ca	100	ARG	Sidechain
1	ca	154	ARG	Sidechain
1	ca	162	ARG	Sidechain
1	ca	167	ARG	Sidechain
1	ca	169	TYR	Sidechain
1	ca	229	ARG	Peptide
1	ca	8	GLY	Peptide
1	ca	82	ARG	Sidechain
1	cb	100	ARG	Sidechain
1	cb	124	ILE	Peptide
1	cb	162	ARG	Sidechain
1	cb	167	ARG	Sidechain
1	cb	82	ARG	Sidechain
1	cb	92	GLU	Peptide
1	cc	100	ARG	Sidechain
1	cc	130	TYR	Sidechain
1	cc	162	ARG	Sidechain
1	cc	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	cc	173	ARG	Sidechain
1	cc	32	PHE	Sidechain
1	cc	62	HIS	Sidechain
1	cd	130	TYR	Sidechain
1	cd	154	ARG	Sidechain
1	cd	206	GLY	Peptide
1	ce	121	ASN	Peptide
1	ce	162	ARG	Sidechain
1	cf	169	TYR	Sidechain
1	cf	229	ARG	Sidechain
1	cg	143	ARG	Sidechain
1	cg	145	TYR	Sidechain
1	cg	162	ARG	Sidechain
1	cg	164	TYR	Sidechain
1	cg	169	TYR	Sidechain
1	cg	173	ARG	Sidechain
1	cg	18	ARG	Sidechain
1	cg	97	ARG	Sidechain
1	ch	120	HIS	Sidechain
1	ch	143	ARG	Sidechain
1	ch	154	ARG	Sidechain
1	ch	164	TYR	Sidechain
1	ci	130	TYR	Sidechain
1	ci	145	TYR	Sidechain
1	ci	162	ARG	Sidechain
1	ci	173	ARG	Sidechain
1	ci	18	ARG	Sidechain
1	ci	32	PHE	Sidechain
1	cj	121	ASN	Peptide
1	cj	130	TYR	Sidechain
1	cj	145	TYR	Sidechain
1	cj	146	SER	Peptide
1	cj	154	ARG	Sidechain
1	cj	164	TYR	Sidechain
1	cj	169	TYR	Sidechain
1	cj	197	ASP	Sidechain
1	ck	145	TYR	Sidechain
1	ck	148	THR	Peptide
1	ck	161	PHE	Sidechain
1	ck	18	ARG	Sidechain
1	ck	229	ARG	Sidechain
1	ck	40	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	cl	130	TYR	Sidechain
1	cl	164	TYR	Sidechain
1	cm	121	ASN	Peptide
1	cm	132	ARG	Sidechain
1	cm	143	ARG	Sidechain
1	cm	173	ARG	Sidechain
1	cm	32	PHE	Sidechain
1	cn	121	ASN	Peptide
1	cn	143	ARG	Sidechain
1	cn	160	PRO	Mainchain
1	cn	169	TYR	Sidechain
1	cn	18	ARG	Sidechain
1	cn	218	CYS	Peptide
1	cn	226	HIS	Peptide
1	cn	99	PRO	Peptide
1	co	169	TYR	Sidechain
1	co	84	HIS	Sidechain
1	co	89	GLY	Peptide
1	cp	114	GLN	Mainchain
1	cp	121	ASN	Peptide
1	cp	132	ARG	Sidechain
1	cp	154	ARG	Sidechain
1	cp	18	ARG	Sidechain
1	cp	62	HIS	Sidechain,Peptide
1	cp	82	ARG	Sidechain
1	cq	121	ASN	Peptide
1	cq	130	TYR	Sidechain
1	cq	132	ARG	Sidechain
1	cq	154	ARG	Sidechain
1	cq	167	ARG	Sidechain
1	cq	82	ARG	Sidechain
1	cr	145	TYR	Sidechain
1	cr	162	ARG	Sidechain
1	cr	18	ARG	Sidechain
1	cr	23	TRP	Mainchain
1	cr	82	ARG	Sidechain
1	cr	84	HIS	Sidechain
1	cs	100	ARG	Sidechain
1	cs	143	ARG	Sidechain
1	cs	162	ARG	Sidechain
1	cs	167	ARG	Sidechain
1	cs	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	cs	206	GLY	Peptide
1	cs	32	PHE	Sidechain
1	cs	62	HIS	Sidechain
1	cs	87	HIS	Sidechain
1	ct	120	HIS	Sidechain
1	ct	121	ASN	Peptide
1	ct	145	TYR	Sidechain
1	ct	168	PHE	Sidechain
1	ct	169	TYR	Sidechain
1	ct	82	ARG	Sidechain
1	cu	100	ARG	Sidechain
1	cu	143	ARG	Sidechain
1	cu	145	TYR	Sidechain
1	cu	167	ARG	Sidechain
1	cu	168	PHE	Sidechain
1	cu	229	ARG	Sidechain
1	cu	32	PHE	Sidechain
1	cv	100	ARG	Sidechain
1	cv	104	ILE	Mainchain
1	cv	154	ARG	Sidechain
1	cv	169	TYR	Sidechain
1	cv	18	ARG	Sidechain
1	cv	32	PHE	Sidechain
1	cv	82	ARG	Sidechain
1	cw	100	ARG	Sidechain
1	cw	164	TYR	Sidechain
1	cw	173	ARG	Sidechain
1	cw	188	THR	Peptide
1	cx	132	ARG	Sidechain
1	cx	145	TYR	Sidechain
1	cx	146	SER	Peptide
1	cx	161	PHE	Sidechain
1	cx	162	ARG	Sidechain
1	cy	162	ARG	Sidechain
1	cy	164	TYR	Sidechain
1	cy	173	ARG	Sidechain
1	cy	84	HIS	Sidechain
1	cz	124	ILE	Peptide
1	cz	145	TYR	Sidechain
1	cz	173	ARG	Sidechain
1	cz	18	ARG	Sidechain
1	d	124	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	d	154	ARG	Sidechain
1	d	32	PHE	Sidechain
1	d	82	ARG	Sidechain
1	d	97	ARG	Sidechain
1	d0	130	TYR	Sidechain
1	d0	143	ARG	Sidechain
1	d0	162	ARG	Sidechain
1	d0	229	ARG	Sidechain
1	d0	82	ARG	Sidechain
1	d1	100	ARG	Sidechain
1	d1	130	TYR	Sidechain
1	d1	164	TYR	Sidechain
1	d1	84	HIS	Sidechain
1	d2	120	HIS	Sidechain
1	d2	132	ARG	Sidechain
1	d2	145	TYR	Sidechain
1	d2	162	ARG	Sidechain
1	d2	164	TYR	Sidechain
1	d2	229	ARG	Sidechain
1	d2	82	ARG	Sidechain
1	d3	100	ARG	Sidechain
1	d3	124	ILE	Peptide
1	d3	143	ARG	Sidechain
1	d3	168	PHE	Sidechain
1	d4	120	HIS	Sidechain
1	d4	124	ILE	Peptide
1	d4	145	TYR	Sidechain
1	d4	205	LEU	Peptide
1	d4	32	PHE	Sidechain
1	d4	40	PHE	Sidechain
1	d4	82	ARG	Sidechain
1	d5	132	ARG	Sidechain
1	d5	167	ARG	Sidechain
1	d5	226	HIS	Sidechain
1	d5	228	ALA	Peptide
1	d5	82	ARG	Sidechain
1	d6	120	HIS	Sidechain
1	d6	121	ASN	Peptide
1	d6	145	TYR	Sidechain
1	d6	162	ARG	Sidechain
1	d6	173	ARG	Sidechain
1	d6	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	d6	229	ARG	Sidechain
1	d6	62	HIS	Sidechain
1	d7	121	ASN	Peptide
1	d7	124	ILE	Peptide
1	d7	162	ARG	Sidechain
1	d7	79	GLU	Mainchain
1	d8	120	HIS	Sidechain
1	d8	13	GLN	Peptide
1	d8	132	ARG	Sidechain
1	d8	143	ARG	Sidechain
1	d8	18	ARG	Sidechain
1	d8	82	ARG	Sidechain
1	d9	100	ARG	Sidechain
1	d9	130	TYR	Sidechain
1	d9	145	TYR	Sidechain
1	d9	154	ARG	Sidechain
1	d9	169	TYR	Sidechain
1	d9	18	ARG	Sidechain
1	d9	84	HIS	Sidechain
1	d9	87	HIS	Sidechain
1	d9	97	ARG	Sidechain
1	dA	121	ASN	Peptide
1	dA	143	ARG	Sidechain
1	dA	162	ARG	Sidechain
1	dA	167	ARG	Sidechain
1	dA	229	ARG	Sidechain
1	dA	29	GLU	Peptide
1	dA	62	HIS	Sidechain
1	dA	97	ARG	Sidechain
1	dB	173	ARG	Sidechain
1	dC	120	HIS	Sidechain
1	dC	130	TYR	Sidechain
1	dC	143	ARG	Sidechain
1	dC	145	TYR	Sidechain
1	dC	154	ARG	Sidechain
1	dC	167	ARG	Sidechain
1	dC	173	ARG	Sidechain
1	dC	229	ARG	Sidechain
1	dC	40	PHE	Sidechain
1	dC	48	THR	Peptide
1	dD	120	HIS	Sidechain
1	dD	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	dD	162	ARG	Sidechain
1	dE	130	TYR	Sidechain
1	dE	143	ARG	Sidechain
1	dE	154	ARG	Sidechain
1	dE	162	ARG	Sidechain
1	dE	164	TYR	Sidechain
1	dE	167	ARG	Sidechain
1	dE	205	LEU	Peptide
1	dE	226	HIS	Sidechain
1	dE	32	PHE	Sidechain
1	dE	99	PRO	Peptide
1	dF	124	ILE	Peptide
1	dF	156	GLY	Peptide
1	dF	162	ARG	Sidechain
1	dF	18	ARG	Sidechain
1	dG	100	ARG	Sidechain
1	dG	121	ASN	Peptide
1	dG	164	TYR	Sidechain
1	dG	168	PHE	Sidechain
1	dG	226	HIS	Sidechain
1	dH	100	ARG	Sidechain
1	dH	130	TYR	Sidechain
1	dH	164	TYR	Sidechain
1	dI	124	ILE	Peptide
1	dI	130	TYR	Sidechain
1	dI	132	ARG	Sidechain
1	dI	154	ARG	Sidechain
1	dJ	130	TYR	Sidechain
1	dJ	145	TYR	Sidechain
1	dJ	146	SER	Peptide
1	dJ	164	TYR	Sidechain
1	dJ	176	GLN	Sidechain
1	dK	120	HIS	Sidechain
1	dK	121	ASN	Peptide
1	dK	62	HIS	Sidechain
1	dK	84	HIS	Sidechain
1	dK	87	HIS	Sidechain
1	dL	122	PRO	Peptide
1	dL	161	PHE	Sidechain
1	dL	162	ARG	Sidechain
1	dL	164	TYR	Sidechain
1	dL	226	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	dL	229	ARG	Sidechain
1	dM	100	ARG	Sidechain
1	dM	145	TYR	Sidechain
1	dM	162	ARG	Sidechain
1	dM	167	ARG	Sidechain
1	dN	120	HIS	Sidechain
1	dN	130	TYR	Sidechain
1	dN	146	SER	Peptide
1	dN	154	ARG	Sidechain
1	dN	164	TYR	Sidechain
1	dN	167	ARG	Sidechain
1	dN	62	HIS	Sidechain
1	dN	97	ARG	Sidechain
1	dO	132	ARG	Sidechain
1	dO	40	PHE	Sidechain
1	dO	82	ARG	Sidechain
1	dP	103	ASP	Sidechain
1	dP	143	ARG	Sidechain
1	dP	162	ARG	Sidechain
1	dP	164	TYR	Sidechain
1	dP	173	ARG	Sidechain
1	dP	32	PHE	Sidechain
1	dQ	100	ARG	Sidechain
1	dQ	121	ASN	Peptide
1	dQ	143	ARG	Sidechain
1	dQ	154	ARG	Sidechain
1	dQ	164	TYR	Sidechain
1	dQ	169	TYR	Sidechain
1	dQ	18	ARG	Sidechain
1	dQ	40	PHE	Sidechain
1	dQ	97	ARG	Sidechain
1	dR	121	ASN	Peptide
1	dR	132	ARG	Sidechain
1	dR	145	TYR	Sidechain
1	dR	160	PRO	Peptide
1	dR	82	ARG	Sidechain
1	dS	130	TYR	Sidechain
1	dS	145	TYR	Sidechain
1	dS	164	TYR	Sidechain
1	dS	167	ARG	Sidechain
1	dS	168	PHE	Sidechain
1	dS	173	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	dT	229	ARG	Sidechain
1	dT	32	PHE	Sidechain
1	dT	62	HIS	Sidechain
1	dT	89	GLY	Peptide
1	dT	97	ARG	Sidechain
1	dU	121	ASN	Peptide
1	dU	132	ARG	Sidechain
1	dU	167	ARG	Sidechain
1	dU	169	TYR	Sidechain
1	dU	229	ARG	Sidechain
1	dU	32	PHE	Sidechain
1	dU	87	HIS	Sidechain
1	dV	130	TYR	Sidechain
1	dV	145	TYR	Sidechain
1	dV	169	TYR	Sidechain
1	dV	62	HIS	Sidechain
1	dV	82	ARG	Sidechain
1	dW	121	ASN	Peptide
1	dW	145	TYR	Sidechain
1	dW	154	ARG	Sidechain
1	dW	167	ARG	Sidechain
1	dW	172	LEU	Mainchain
1	dW	229	ARG	Sidechain
1	dW	40	PHE	Sidechain
1	dW	84	HIS	Sidechain
1	dX	130	TYR	Sidechain
1	dX	145	TYR	Sidechain
1	dX	16	SER	Peptide
1	dX	164	TYR	Sidechain
1	dX	82	ARG	Sidechain
1	dY	130	TYR	Sidechain
1	dY	143	ARG	Sidechain
1	dY	164	TYR	Sidechain
1	dY	167	ARG	Sidechain
1	dY	173	ARG	Sidechain
1	dY	229	ARG	Sidechain
1	dZ	121	ASN	Peptide
1	dZ	162	ARG	Sidechain
1	dZ	164	TYR	Sidechain
1	dZ	167	ARG	Sidechain
1	dZ	226	HIS	Sidechain
1	dZ	62	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	da	124	ILE	Peptide
1	da	145	TYR	Sidechain
1	da	62	HIS	Sidechain
1	da	84	HIS	Sidechain
1	da	87	HIS	Sidechain
1	db	121	ASN	Peptide
1	db	124	ILE	Peptide
1	db	146	SER	Peptide
1	db	154	ARG	Sidechain
1	db	164	TYR	Sidechain
1	dc	121	ASN	Peptide
1	dc	130	TYR	Sidechain
1	dc	145	TYR	Sidechain
1	dc	164	TYR	Sidechain
1	dc	229	ARG	Sidechain
1	dc	40	PHE	Sidechain
1	dd	154	ARG	Sidechain
1	dd	167	ARG	Sidechain
1	dd	18	ARG	Sidechain
1	dd	82	ARG	Sidechain
1	de	121	ASN	Peptide
1	de	132	ARG	Sidechain
1	de	145	TYR	Sidechain
1	de	162	ARG	Sidechain
1	de	167	ARG	Sidechain
1	de	229	ARG	Sidechain
1	de	62	HIS	Sidechain
1	df	100	ARG	Sidechain
1	df	130	TYR	Sidechain
1	df	143	ARG	Sidechain
1	df	168	PHE	Sidechain
1	df	169	TYR	Sidechain
1	df	18	ARG	Sidechain
1	df	206	GLY	Peptide
1	df	229	ARG	Sidechain
1	dg	100	ARG	Sidechain
1	dg	143	ARG	Sidechain
1	dg	159	GLU	Peptide
1	dg	164	TYR	Sidechain
1	dg	167	ARG	Sidechain
1	dg	169	TYR	Sidechain
1	dg	62	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	dh	12	HIS	Sidechain
1	dh	121	ASN	Peptide
1	dh	124	ILE	Peptide
1	dh	164	TYR	Sidechain
1	di	143	ARG	Sidechain
1	di	154	ARG	Sidechain
1	di	167	ARG	Sidechain
1	di	173	ARG	Sidechain
1	di	229	ARG	Sidechain
1	dj	12	HIS	Sidechain,Peptide
1	dj	120	HIS	Sidechain
1	dj	121	ASN	Peptide
1	dj	132	ARG	Sidechain
1	dj	145	TYR	Sidechain
1	dj	18	ARG	Sidechain
1	dj	229	ARG	Sidechain
1	dj	97	ARG	Sidechain
1	dk	206	GLY	Peptide
1	dk	229	ARG	Sidechain
1	dl	12	HIS	Sidechain
1	dl	162	ARG	Sidechain
1	dl	169	TYR	Sidechain
1	dl	173	ARG	Sidechain
1	dl	226	HIS	Sidechain
1	dm	130	TYR	Sidechain
1	dm	154	ARG	Sidechain
1	dm	162	ARG	Sidechain
1	dm	166	ASP	Mainchain
1	dm	169	TYR	Sidechain
1	dm	173	ARG	Sidechain
1	dm	229	ARG	Sidechain
1	dn	130	TYR	Sidechain
1	dn	154	ARG	Sidechain
1	dn	162	ARG	Sidechain
1	dn	167	ARG	Sidechain
1	dn	18	ARG	Sidechain
1	dn	206	GLY	Mainchain
1	dn	84	HIS	Sidechain
1	do	145	TYR	Sidechain
1	do	154	ARG	Sidechain
1	do	164	TYR	Sidechain
1	do	67	GLN	Mainchain

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Mol	Chain	Res	Type	Group
1	do	87	HIS	Sidechain
1	dp	121	ASN	Peptide
1	dp	130	TYR	Sidechain
1	dp	132	ARG	Sidechain
1	dp	145	TYR	Sidechain
1	dp	159	GLU	Peptide
1	dq	121	ASN	Peptide
1	dr	130	TYR	Sidechain
1	dr	132	ARG	Sidechain
1	dr	167	ARG	Sidechain
1	dr	18	ARG	Sidechain
1	dr	39	MET	Mainchain
1	dr	82	ARG	Sidechain
1	ds	145	TYR	Sidechain
1	ds	169	TYR	Sidechain
1	ds	82	ARG	Sidechain
1	dt	120	HIS	Sidechain
1	dt	132	ARG	Sidechain
1	dt	154	ARG	Sidechain
1	du	120	HIS	Sidechain
1	du	124	ILE	Peptide
1	du	132	ARG	Sidechain
1	du	143	ARG	Sidechain
1	du	164	TYR	Sidechain
1	dv	12	HIS	Sidechain
1	dv	121	ASN	Peptide
1	dv	130	TYR	Sidechain
1	dv	132	ARG	Sidechain
1	dv	164	TYR	Sidechain
1	dv	18	ARG	Sidechain
1	dw	100	ARG	Sidechain
1	dw	121	ASN	Peptide
1	dw	143	ARG	Sidechain
1	dw	167	ARG	Sidechain
1	dw	18	ARG	Sidechain
1	dw	226	HIS	Sidechain
1	dw	229	ARG	Sidechain
1	dx	124	ILE	Peptide
1	dx	130	TYR	Sidechain
1	dx	132	ARG	Sidechain
1	dx	167	ARG	Sidechain
1	dx	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	dx	193	ASN	Peptide
1	dx	206	GLY	Peptide
1	dx	82	ARG	Sidechain
1	dy	145	TYR	Sidechain
1	dy	18	ARG	Sidechain
1	dz	12	HIS	Sidechain
1	dz	145	TYR	Sidechain
1	dz	154	ARG	Sidechain
1	dz	167	ARG	Sidechain
1	dz	229	ARG	Sidechain
1	dz	32	PHE	Sidechain
1	dz	97	ARG	Sidechain
1	e	143	ARG	Sidechain
1	e	164	TYR	Sidechain
1	e	167	ARG	Sidechain
1	e	169	TYR	Sidechain
1	e	226	HIS	Sidechain
1	e0	130	TYR	Sidechain
1	e0	173	ARG	Sidechain
1	e1	154	ARG	Sidechain
1	e1	162	ARG	Sidechain
1	e1	167	ARG	Sidechain
1	e1	169	TYR	Sidechain
1	e2	132	ARG	Sidechain
1	e3	167	ARG	Sidechain
1	e3	226	HIS	Sidechain
1	e3	229	ARG	Sidechain
1	e4	100	ARG	Sidechain
1	e4	132	ARG	Sidechain
1	e4	18	ARG	Sidechain
1	e4	93	PRO	Mainchain
1	e5	143	ARG	Sidechain
1	e5	173	ARG	Sidechain
1	e5	229	ARG	Sidechain
1	e5	32	PHE	Sidechain
1	e6	121	ASN	Peptide
1	e6	145	TYR	Sidechain
1	e6	167	ARG	Sidechain
1	e6	226	HIS	Sidechain
1	e6	229	ARG	Sidechain
1	e6	84	HIS	Peptide
1	e7	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	e7	164	TYR	Sidechain
1	e7	32	PHE	Sidechain
1	e7	40	PHE	Sidechain
1	e7	62	HIS	Sidechain
1	e8	100	ARG	Sidechain
1	e8	154	ARG	Sidechain
1	e8	164	TYR	Sidechain
1	e8	167	ARG	Sidechain
1	e8	173	ARG	Sidechain
1	e8	82	ARG	Sidechain
1	e9	100	ARG	Sidechain
1	e9	162	ARG	Sidechain
1	e9	164	TYR	Sidechain
1	eA	100	ARG	Sidechain
1	eA	121	ASN	Peptide
1	eA	164	TYR	Sidechain
1	eA	169	TYR	Sidechain
1	eA	191	VAL	Peptide
1	eA	229	ARG	Sidechain
1	eA	82	ARG	Sidechain
1	eA	87	HIS	Sidechain
1	eA	98	GLU	Peptide
1	eB	100	ARG	Sidechain
1	eB	154	ARG	Sidechain
1	eB	169	TYR	Sidechain
1	eB	229	ARG	Sidechain
1	eC	100	ARG	Sidechain
1	eC	132	ARG	Sidechain
1	eC	162	ARG	Sidechain
1	eC	164	TYR	Sidechain
1	eC	169	TYR	Sidechain
1	eC	32	PHE	Sidechain
1	eD	162	ARG	Sidechain
1	eD	169	TYR	Sidechain
1	eD	229	ARG	Sidechain
1	eD	84	HIS	Sidechain
1	eD	97	ARG	Sidechain
1	eE	100	ARG	Sidechain
1	eE	130	TYR	Sidechain
1	eE	145	TYR	Sidechain
1	eE	164	TYR	Sidechain
1	eE	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	eE	18	ARG	Sidechain
1	eE	87	HIS	Sidechain
1	eF	100	ARG	Sidechain
1	eF	130	TYR	Sidechain
1	eF	145	TYR	Sidechain
1	eF	162	ARG	Sidechain
1	eF	18	ARG	Sidechain
1	eG	139	ASN	Sidechain
1	eG	162	ARG	Sidechain
1	eG	169	TYR	Sidechain
1	eG	18	ARG	Sidechain
1	eG	62	HIS	Sidechain
1	eH	130	TYR	Sidechain
1	eH	145	TYR	Sidechain
1	eH	18	ARG	Sidechain
1	eI	12	HIS	Sidechain
1	eI	143	ARG	Sidechain
1	eI	154	ARG	Sidechain
1	eI	161	PHE	Sidechain
1	eI	162	ARG	Sidechain
1	eI	229	ARG	Sidechain
1	eI	62	HIS	Sidechain
1	eJ	130	TYR	Sidechain
1	eJ	154	ARG	Sidechain
1	eJ	169	TYR	Sidechain
1	eJ	62	HIS	Sidechain
1	eK	100	ARG	Sidechain
1	eK	130	TYR	Sidechain
1	eK	146	SER	Peptide
1	eK	173	ARG	Sidechain
1	eK	208	ALA	Peptide
1	eK	30	LYS	Peptide
1	eL	143	ARG	Sidechain
1	eL	154	ARG	Sidechain
1	eL	173	ARG	Sidechain
1	eL	32	PHE	Sidechain
1	eM	121	ASN	Peptide
1	eM	132	ARG	Sidechain
1	eM	164	TYR	Sidechain
1	eM	169	TYR	Sidechain
1	eM	18	ARG	Sidechain
1	eM	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	eN	132	ARG	Sidechain
1	eN	162	ARG	Sidechain
1	eN	169	TYR	Sidechain
1	eN	173	ARG	Sidechain
1	eN	229	ARG	Sidechain
1	eN	84	HIS	Sidechain,Peptide
1	eO	12	HIS	Sidechain
1	eO	132	ARG	Sidechain
1	eO	143	ARG	Sidechain
1	eP	124	ILE	Peptide
1	eP	132	ARG	Sidechain
1	eP	143	ARG	Sidechain
1	eP	167	ARG	Sidechain
1	eP	169	TYR	Sidechain
1	eP	173	ARG	Sidechain
1	eP	195	ASN	Peptide
1	eP	40	PHE	Sidechain
1	eP	82	ARG	Sidechain
1	eP	97	ARG	Sidechain
1	eQ	130	TYR	Sidechain
1	eQ	132	ARG	Sidechain
1	eR	162	ARG	Sidechain
1	eR	167	ARG	Sidechain
1	eR	168	PHE	Sidechain
1	eS	143	ARG	Sidechain
1	eS	154	ARG	Sidechain
1	eS	162	ARG	Sidechain
1	eS	228	ALA	Peptide
1	eS	97	ARG	Sidechain
1	eT	12	HIS	Sidechain,Mainchain
1	eT	120	HIS	Sidechain
1	eT	229	ARG	Sidechain
1	eT	44	SER	Peptide
1	eU	132	ARG	Sidechain
1	eU	18	ARG	Sidechain
1	eU	229	ARG	Sidechain
1	eU	84	HIS	Peptide
1	eV	167	ARG	Sidechain
1	eV	226	HIS	Sidechain
1	eV	62	HIS	Sidechain
1	eW	121	ASN	Peptide
1	eW	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	eW	162	ARG	Sidechain
1	eW	167	ARG	Sidechain
1	eX	100	ARG	Sidechain
1	eX	145	TYR	Sidechain
1	eX	148	THR	Peptide
1	eX	159	GLU	Peptide
1	eX	168	PHE	Sidechain
1	eX	169	TYR	Mainchain
1	eX	226	HIS	Sidechain
1	eY	162	ARG	Sidechain
1	eY	164	TYR	Sidechain
1	eY	229	ARG	Sidechain
1	eY	82	ARG	Sidechain
1	eZ	132	ARG	Sidechain
1	eZ	169	TYR	Sidechain
1	eZ	18	ARG	Sidechain
1	eZ	32	PHE	Sidechain
1	eZ	82	ARG	Sidechain
1	ea	120	HIS	Sidechain
1	ea	121	ASN	Peptide
1	ea	154	ARG	Sidechain
1	ea	162	ARG	Sidechain
1	ea	164	TYR	Sidechain
1	ea	167	ARG	Sidechain
1	ea	229	ARG	Sidechain
1	ea	92	GLU	Peptide
1	eb	143	ARG	Sidechain
1	ec	132	ARG	Sidechain
1	ec	143	ARG	Sidechain
1	ec	154	ARG	Sidechain
1	ec	162	ARG	Sidechain
1	ec	167	ARG	Sidechain
1	ec	173	ARG	Sidechain
1	ec	18	ARG	Sidechain
1	ec	44	SER	Mainchain
1	ec	82	ARG	Sidechain
1	ed	145	TYR	Sidechain
1	ed	162	ARG	Sidechain
1	ed	169	TYR	Sidechain
1	ed	190	LEU	Peptide
1	ed	215	MET	Peptide
1	ee	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ee	162	ARG	Sidechain
1	ee	169	TYR	Sidechain
1	ee	18	ARG	Sidechain
1	ee	229	ARG	Sidechain
1	ee	62	HIS	Sidechain
1	ee	84	HIS	Peptide
1	ef	12	HIS	Sidechain
1	ef	121	ASN	Peptide
1	ef	132	ARG	Sidechain
1	ef	145	TYR	Sidechain
1	ef	154	ARG	Sidechain
1	ef	167	ARG	Sidechain
1	ef	82	ARG	Sidechain
1	ef	90	PRO	Peptide
1	eg	143	ARG	Sidechain
1	eg	145	TYR	Sidechain
1	eg	173	ARG	Sidechain
1	eg	89	GLY	Peptide
1	eg	97	ARG	Sidechain
1	eh	100	ARG	Sidechain
1	eh	121	ASN	Peptide
1	eh	130	TYR	Sidechain
1	eh	132	ARG	Sidechain
1	eh	145	TYR	Sidechain
1	eh	164	TYR	Sidechain
1	eh	169	TYR	Sidechain
1	eh	2	ILE	Peptide
1	eh	82	ARG	Sidechain
1	ei	130	TYR	Sidechain
1	ei	132	ARG	Sidechain
1	ei	164	TYR	Sidechain
1	ei	167	ARG	Sidechain
1	ei	226	HIS	Sidechain
1	ei	97	ARG	Sidechain
1	ej	100	ARG	Sidechain
1	ej	121	ASN	Peptide
1	ej	132	ARG	Sidechain
1	ej	143	ARG	Sidechain
1	ej	164	TYR	Sidechain
1	ej	167	ARG	Sidechain
1	ej	18	ARG	Sidechain
1	ek	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	ek	143	ARG	Sidechain
1	ek	162	ARG	Sidechain
1	ek	229	ARG	Sidechain
1	ek	97	ARG	Sidechain
1	el	12	HIS	Sidechain
1	el	130	TYR	Sidechain
1	el	143	ARG	Sidechain
1	el	161	PHE	Sidechain
1	el	18	ARG	Sidechain
1	el	82	ARG	Sidechain
1	em	100	ARG	Sidechain
1	em	121	ASN	Peptide
1	em	132	ARG	Sidechain
1	em	145	TYR	Sidechain
1	em	167	ARG	Sidechain
1	em	169	TYR	Sidechain
1	en	121	ASN	Peptide
1	en	124	ILE	Peptide
1	en	132	ARG	Sidechain
1	en	143	ARG	Sidechain
1	en	162	ARG	Sidechain
1	en	164	TYR	Sidechain
1	en	168	PHE	Sidechain
1	en	99	PRO	Peptide
1	eo	130	TYR	Sidechain
1	eo	132	ARG	Sidechain
1	eo	18	ARG	Sidechain
1	eo	40	PHE	Sidechain
1	eo	82	ARG	Sidechain
1	eo	87	HIS	Sidechain
1	ep	100	ARG	Sidechain
1	ep	124	ILE	Peptide
1	ep	164	TYR	Sidechain
1	ep	167	ARG	Sidechain
1	ep	168	PHE	Sidechain
1	ep	84	HIS	Sidechain
1	eq	130	TYR	Sidechain
1	eq	164	TYR	Sidechain
1	eq	169	TYR	Sidechain
1	eq	18	ARG	Sidechain
1	eq	82	ARG	Sidechain
1	er	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	er	130	TYR	Sidechain
1	er	162	ARG	Sidechain
1	er	229	ARG	Sidechain
1	er	97	ARG	Sidechain
1	er	99	PRO	Peptide
1	es	100	ARG	Sidechain
1	es	143	ARG	Sidechain
1	es	195	ASN	Peptide
1	es	229	ARG	Sidechain
1	et	100	ARG	Sidechain
1	et	132	ARG	Sidechain
1	et	143	ARG	Sidechain
1	et	145	TYR	Sidechain
1	et	82	ARG	Sidechain
1	et	97	ARG	Sidechain
1	eu	130	TYR	Sidechain
1	eu	18	ARG	Sidechain
1	ev	120	HIS	Sidechain
1	ev	132	ARG	Sidechain
1	ev	169	TYR	Sidechain
1	ev	173	ARG	Sidechain
1	ev	226	HIS	Sidechain
1	ev	62	HIS	Sidechain
1	ew	143	ARG	Sidechain
1	ew	154	ARG	Sidechain
1	ew	164	TYR	Sidechain
1	ex	143	ARG	Sidechain
1	ex	145	TYR	Sidechain
1	ex	162	ARG	Sidechain
1	ex	167	ARG	Sidechain
1	ex	169	TYR	Sidechain
1	ex	173	ARG	Sidechain
1	ex	32	PHE	Sidechain
1	ex	62	HIS	Sidechain
1	ey	164	TYR	Sidechain
1	ey	167	ARG	Sidechain
1	ey	169	TYR	Sidechain
1	ey	173	ARG	Sidechain
1	ez	130	TYR	Sidechain
1	ez	132	ARG	Sidechain
1	ez	169	TYR	Sidechain
1	ez	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ez	229	ARG	Sidechain
1	f	130	TYR	Sidechain
1	f	18	ARG	Sidechain
1	f	229	ARG	Sidechain
1	f	82	ARG	Sidechain
1	f	89	GLY	Peptide
1	f1	130	TYR	Sidechain
1	f1	143	ARG	Sidechain
1	f1	167	ARG	Sidechain
1	f2	130	TYR	Sidechain
1	f2	132	ARG	Sidechain
1	f2	162	ARG	Sidechain
1	f2	40	PHE	Sidechain
1	f2	82	ARG	Sidechain
1	f3	132	ARG	Sidechain
1	f3	154	ARG	Sidechain
1	f3	167	ARG	Sidechain
1	f3	169	TYR	Sidechain
1	f3	3	VAL	Mainchain
1	f3	32	PHE	Peptide
1	f4	154	ARG	Sidechain
1	f4	164	TYR	Sidechain
1	f4	212	GLU	Mainchain
1	f4	84	HIS	Peptide
1	f4	98	GLU	Peptide
1	f5	121	ASN	Peptide
1	f5	143	ARG	Sidechain
1	f5	154	ARG	Sidechain
1	f5	229	ARG	Sidechain
1	f5	40	PHE	Sidechain
1	f6	100	ARG	Sidechain
1	f6	162	ARG	Sidechain
1	f6	167	ARG	Sidechain
1	f6	173	ARG	Sidechain
1	f7	121	ASN	Peptide
1	f7	143	ARG	Sidechain
1	f7	167	ARG	Sidechain
1	f7	32	PHE	Sidechain
1	f7	77	ALA	Mainchain
1	f7	84	HIS	Peptide
1	f8	130	TYR	Sidechain
1	f8	143	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	f8	145	TYR	Sidechain
1	f8	164	TYR	Sidechain
1	f8	173	ARG	Sidechain
1	f8	62	HIS	Sidechain
1	f8	82	ARG	Sidechain
1	f9	164	TYR	Sidechain
1	f9	169	TYR	Sidechain
1	f9	18	ARG	Sidechain
1	f9	60	GLY	Peptide
1	fA	120	HIS	Sidechain
1	fA	121	ASN	Peptide
1	fA	143	ARG	Sidechain
1	fA	167	ARG	Sidechain
1	fA	169	TYR	Sidechain
1	fA	40	PHE	Sidechain
1	fA	84	HIS	Sidechain
1	fB	124	ILE	Peptide
1	fB	130	TYR	Sidechain
1	fB	143	ARG	Sidechain
1	fB	206	GLY	Peptide
1	fB	32	PHE	Sidechain
1	fB	82	ARG	Sidechain
1	fC	143	ARG	Sidechain
1	fC	145	TYR	Sidechain
1	fC	167	ARG	Sidechain
1	fC	169	TYR	Sidechain
1	fC	82	ARG	Sidechain
1	fD	154	ARG	Sidechain
1	fD	169	TYR	Sidechain
1	fE	121	ASN	Peptide
1	fE	130	TYR	Sidechain
1	fE	145	TYR	Sidechain
1	fE	154	ARG	Sidechain
1	fE	162	ARG	Sidechain
1	fE	18	ARG	Sidechain
1	fE	48	THR	Peptide
1	fE	97	ARG	Sidechain
1	fF	100	ARG	Sidechain
1	fF	121	ASN	Peptide
1	fF	124	ILE	Peptide
1	fF	145	TYR	Sidechain
1	fF	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	fF	60	GLY	Peptide
1	fG	121	ASN	Peptide
1	fG	143	ARG	Sidechain
1	fG	18	ARG	Sidechain
1	fH	124	ILE	Peptide
1	fH	143	ARG	Sidechain
1	fH	169	TYR	Sidechain
1	fH	52	LEU	Mainchain
1	fH	97	ARG	Sidechain
1	fI	100	ARG	Sidechain
1	fI	130	TYR	Sidechain
1	fI	145	TYR	Sidechain
1	fI	162	ARG	Sidechain
1	fJ	18	ARG	Sidechain
1	fJ	229	ARG	Sidechain
1	fJ	82	ARG	Sidechain
1	fK	143	ARG	Sidechain
1	fK	162	ARG	Sidechain
1	fK	167	ARG	Sidechain
1	fK	169	TYR	Sidechain
1	fL	100	ARG	Sidechain
1	fL	145	TYR	Sidechain
1	fL	154	ARG	Sidechain
1	fL	164	TYR	Sidechain
1	fL	169	TYR	Sidechain
1	fL	229	ARG	Sidechain
1	fM	100	ARG	Sidechain
1	fM	164	TYR	Sidechain
1	fN	121	ASN	Peptide
1	fN	130	TYR	Sidechain
1	fN	162	ARG	Sidechain
1	fN	164	TYR	Sidechain
1	fN	168	PHE	Sidechain
1	fN	18	ARG	Sidechain
1	fO	143	ARG	Sidechain
1	fO	167	ARG	Sidechain
1	fO	18	ARG	Sidechain
1	fP	143	ARG	Sidechain
1	fP	164	TYR	Sidechain
1	fP	167	ARG	Sidechain
1	fP	173	ARG	Sidechain
1	fP	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	fP	84	HIS	Sidechain
1	fQ	124	ILE	Peptide
1	fQ	173	ARG	Sidechain
1	fQ	206	GLY	Peptide
1	fQ	32	PHE	Sidechain
1	fR	121	ASN	Peptide
1	fR	145	TYR	Sidechain
1	fR	164	TYR	Sidechain
1	fR	82	ARG	Sidechain
1	fS	12	HIS	Sidechain
1	fS	130	TYR	Sidechain
1	fS	143	ARG	Sidechain
1	fS	145	TYR	Sidechain
1	fS	173	ARG	Sidechain
1	fT	145	TYR	Sidechain
1	fT	164	TYR	Sidechain
1	fU	121	ASN	Peptide
1	fU	154	ARG	Sidechain
1	fU	162	ARG	Sidechain
1	fU	164	TYR	Sidechain
1	fU	169	TYR	Sidechain
1	fU	173	ARG	Sidechain
1	fU	194	ALA	Peptide
1	fU	229	ARG	Sidechain
1	fV	121	ASN	Peptide
1	fV	145	TYR	Sidechain
1	fV	154	ARG	Sidechain
1	fV	173	ARG	Sidechain
1	fW	18	ARG	Sidechain
1	fW	229	ARG	Sidechain
1	fX	130	TYR	Sidechain
1	fX	132	ARG	Sidechain
1	fX	143	ARG	Sidechain
1	fX	162	ARG	Sidechain
1	fX	169	TYR	Sidechain
1	fX	87	HIS	Sidechain
1	fY	130	TYR	Sidechain
1	fY	162	ARG	Sidechain
1	fY	168	PHE	Sidechain
1	fY	173	ARG	Sidechain
1	fY	229	ARG	Sidechain
1	fY	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	fZ	12	HIS	Sidechain
1	fZ	124	ILE	Peptide
1	fZ	132	ARG	Mainchain
1	fZ	143	ARG	Sidechain
1	fZ	164	TYR	Sidechain
1	fZ	82	ARG	Sidechain
1	fZ	97	ARG	Sidechain
1	fa	162	ARG	Sidechain
1	fa	167	ARG	Sidechain
1	fa	229	ARG	Sidechain
1	fa	32	PHE	Sidechain
1	fa	40	PHE	Sidechain
1	fb	120	HIS	Sidechain
1	fb	121	ASN	Peptide
1	fb	143	ARG	Sidechain
1	fb	145	TYR	Sidechain
1	fb	173	ARG	Sidechain
1	fb	229	ARG	Sidechain
1	fc	100	ARG	Sidechain
1	fc	168	PHE	Sidechain
1	fc	173	ARG	Sidechain
1	fc	40	PHE	Sidechain
1	fc	82	ARG	Sidechain
1	fd	130	TYR	Sidechain
1	fd	164	TYR	Sidechain
1	fd	18	ARG	Sidechain
1	fd	229	ARG	Sidechain
1	fe	100	ARG	Sidechain
1	fe	120	HIS	Sidechain
1	fe	143	ARG	Sidechain
1	fe	145	TYR	Sidechain
1	fe	164	TYR	Sidechain
1	fe	32	PHE	Sidechain
1	fe	82	ARG	Sidechain
1	ff	100	ARG	Sidechain
1	ff	121	ASN	Peptide
1	ff	143	ARG	Sidechain
1	ff	145	TYR	Sidechain
1	ff	229	ARG	Sidechain
1	ff	32	PHE	Sidechain
1	fg	143	ARG	Sidechain
1	fg	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	fg	164	TYR	Sidechain
1	fh	130	TYR	Sidechain
1	fh	154	ARG	Sidechain
1	fh	156	GLY	Peptide
1	fh	164	TYR	Sidechain
1	fh	167	ARG	Sidechain
1	fh	169	TYR	Sidechain
1	fh	229	ARG	Sidechain
1	fh	40	PHE	Sidechain
1	fi	130	TYR	Sidechain
1	fi	145	TYR	Sidechain
1	fi	154	ARG	Sidechain
1	fi	162	ARG	Sidechain
1	fi	169	TYR	Sidechain
1	fj	130	TYR	Sidechain
1	fj	164	TYR	Sidechain
1	fj	18	ARG	Sidechain
1	fj	84	HIS	Sidechain
1	fk	12	HIS	Sidechain
1	fk	132	ARG	Sidechain
1	fk	145	TYR	Sidechain
1	fk	167	ARG	Sidechain
1	fk	82	ARG	Sidechain
1	fk	84	HIS	Sidechain
1	fk	97	ARG	Sidechain
1	fl	229	ARG	Sidechain
1	fl	32	PHE	Sidechain
1	fl	40	PHE	Sidechain
1	fm	130	TYR	Sidechain
1	fm	145	TYR	Sidechain
1	fm	18	ARG	Sidechain
1	fm	229	ARG	Mainchain
1	fn	100	ARG	Sidechain
1	fn	145	TYR	Sidechain
1	fn	154	ARG	Sidechain
1	fn	162	ARG	Sidechain
1	fn	164	TYR	Sidechain
1	fn	97	ARG	Sidechain
1	fo	168	PHE	Sidechain
1	fo	169	TYR	Sidechain
1	fo	18	ARG	Sidechain
1	fo	226	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	fo	82	ARG	Sidechain
1	fo	97	ARG	Sidechain
1	fp	145	TYR	Sidechain
1	fp	164	TYR	Sidechain
1	fp	167	ARG	Sidechain
1	fp	82	ARG	Sidechain
1	fq	120	HIS	Sidechain
1	fq	123	PRO	Peptide
1	fq	130	TYR	Sidechain
1	fq	132	ARG	Sidechain
1	fq	162	ARG	Sidechain
1	fq	164	TYR	Sidechain
1	fq	173	ARG	Sidechain
1	fq	229	ARG	Sidechain
1	fq	97	ARG	Sidechain
1	fr	100	ARG	Sidechain
1	fr	169	TYR	Sidechain
1	fs	100	ARG	Sidechain
1	fs	132	ARG	Sidechain
1	fs	145	TYR	Sidechain
1	fs	167	ARG	Sidechain
1	fs	229	ARG	Sidechain
1	fs	32	PHE	Sidechain
1	fs	62	HIS	Sidechain
1	fs	82	ARG	Sidechain
1	fs	84	HIS	Sidechain
1	fs	92	GLU	Peptide
1	ft	121	ASN	Peptide
1	ft	154	ARG	Sidechain,Peptide
1	ft	162	ARG	Sidechain
1	ft	167	ARG	Sidechain
1	ft	84	HIS	Sidechain
1	fu	100	ARG	Sidechain
1	fu	130	TYR	Peptide
1	fu	132	ARG	Sidechain
1	fu	143	ARG	Sidechain
1	fu	154	ARG	Sidechain
1	fu	82	ARG	Sidechain
1	fu	97	ARG	Sidechain
1	fv	12	HIS	Sidechain
1	fv	143	ARG	Sidechain
1	fv	156	GLY	Peptide

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Mol	Chain	Res	Type	Group
1	fv	169	TYR	Sidechain
1	fv	82	ARG	Sidechain
1	fv	84	HIS	Sidechain
1	fw	132	ARG	Sidechain
1	fw	143	ARG	Sidechain
1	fw	167	ARG	Sidechain
1	fw	173	ARG	Sidechain
1	fw	18	ARG	Sidechain
1	fx	130	TYR	Sidechain
1	fx	162	ARG	Sidechain
1	fy	143	ARG	Sidechain
1	fy	145	TYR	Sidechain
1	fy	167	ARG	Sidechain
1	fy	168	PHE	Sidechain
1	fy	169	TYR	Sidechain
1	fy	18	ARG	Sidechain
1	fy	82	ARG	Sidechain
1	fy	84	HIS	Sidechain
1	fy	97	ARG	Sidechain
1	fz	121	ASN	Peptide
1	fz	130	TYR	Sidechain
1	fz	145	TYR	Sidechain
1	fz	166	ASP	Sidechain
1	fz	229	ARG	Sidechain
1	fz	32	PHE	Sidechain
1	fz	84	HIS	Peptide
1	g	124	ILE	Peptide
1	g	132	ARG	Sidechain
1	g	154	ARG	Sidechain
1	g	40	PHE	Sidechain
1	g	87	HIS	Sidechain
1	g0	121	ASN	Peptide
1	g0	124	ILE	Peptide
1	g0	130	TYR	Sidechain
1	g0	145	TYR	Sidechain
1	g0	167	ARG	Sidechain
1	g0	226	HIS	Sidechain
1	g1	121	ASN	Peptide
1	g1	143	ARG	Sidechain
1	g1	167	ARG	Sidechain
1	g1	32	PHE	Sidechain
1	g1	37	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	g1	82	ARG	Sidechain
1	g2	168	PHE	Sidechain
1	g2	229	ARG	Sidechain
1	g2	97	ARG	Sidechain
1	g3	100	ARG	Sidechain
1	g3	124	ILE	Peptide
1	g3	145	TYR	Sidechain
1	g3	164	TYR	Sidechain
1	g3	167	ARG	Sidechain
1	g3	169	TYR	Sidechain
1	g3	18	ARG	Sidechain
1	g3	40	PHE	Sidechain
1	g4	100	ARG	Sidechain
1	g4	121	ASN	Peptide
1	g4	124	ILE	Peptide
1	g4	130	TYR	Sidechain
1	g4	145	TYR	Sidechain
1	g4	169	TYR	Sidechain
1	g4	18	ARG	Sidechain
1	g4	40	PHE	Sidechain
1	g4	92	GLU	Peptide
1	g5	132	ARG	Sidechain
1	g5	145	TYR	Sidechain
1	g5	168	PHE	Sidechain
1	g5	173	ARG	Sidechain
1	g5	18	ARG	Sidechain
1	g5	229	ARG	Sidechain
1	g6	145	TYR	Sidechain
1	g6	167	ARG	Sidechain
1	g6	173	ARG	Sidechain
1	g6	82	ARG	Sidechain
1	g7	143	ARG	Sidechain
1	g7	162	ARG	Sidechain
1	g7	169	TYR	Sidechain
1	g7	226	HIS	Sidechain
1	g8	130	TYR	Sidechain
1	g8	132	ARG	Sidechain
1	g8	154	ARG	Sidechain
1	g8	18	ARG	Sidechain
1	g8	62	HIS	Sidechain
1	g9	130	TYR	Sidechain
1	g9	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	g9	173	ARG	Sidechain
1	g9	229	ARG	Sidechain
1	gA	162	ARG	Sidechain
1	gA	173	ARG	Sidechain
1	gA	18	ARG	Sidechain
1	gA	229	ARG	Sidechain
1	gB	132	ARG	Sidechain
1	gB	154	ARG	Sidechain
1	gB	164	TYR	Sidechain
1	gB	173	ARG	Sidechain
1	gB	229	ARG	Sidechain
1	gC	167	ARG	Sidechain
1	gC	18	ARG	Sidechain
1	gC	229	ARG	Sidechain
1	gD	130	TYR	Sidechain
1	gD	132	ARG	Sidechain
1	gD	154	ARG	Sidechain
1	gD	164	TYR	Sidechain
1	gD	167	ARG	Sidechain
1	gE	132	ARG	Sidechain
1	gE	173	ARG	Sidechain
1	gE	97	ARG	Sidechain
1	gF	100	ARG	Sidechain
1	gF	130	TYR	Sidechain
1	gF	18	ARG	Sidechain
1	gF	62	HIS	Sidechain
1	gF	82	ARG	Sidechain
1	gG	154	ARG	Sidechain
1	gG	167	ARG	Sidechain
1	gG	229	ARG	Sidechain
1	gG	43	LEU	Mainchain
1	gG	82	ARG	Sidechain
1	gG	97	ARG	Sidechain
1	gH	12	HIS	Sidechain
1	gH	121	ASN	Peptide
1	gH	124	ILE	Peptide
1	gH	130	TYR	Sidechain
1	gH	145	TYR	Sidechain
1	gH	154	ARG	Sidechain
1	gH	161	PHE	Sidechain
1	gH	167	ARG	Sidechain
1	gI	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	gI	143	ARG	Sidechain
1	gI	154	ARG	Sidechain
1	gI	169	TYR	Sidechain
1	gI	173	ARG	Sidechain
1	gI	40	PHE	Sidechain
1	gJ	130	TYR	Sidechain
1	gJ	143	ARG	Sidechain
1	gJ	164	TYR	Sidechain
1	gJ	167	ARG	Sidechain
1	gJ	40	PHE	Sidechain
1	gJ	62	HIS	Sidechain
1	gK	130	TYR	Sidechain
1	gK	154	ARG	Sidechain
1	gK	173	ARG	Sidechain
1	gK	204	ALA	Mainchain
1	gL	121	ASN	Peptide
1	gL	145	TYR	Sidechain
1	gL	154	ARG	Sidechain
1	gL	167	ARG	Sidechain
1	gL	169	TYR	Sidechain
1	gL	173	ARG	Sidechain
1	gL	18	ARG	Sidechain
1	gL	226	HIS	Sidechain
1	gL	84	HIS	Sidechain
1	gM	132	ARG	Sidechain
1	gM	143	ARG	Sidechain
1	gM	145	TYR	Sidechain
1	gM	169	TYR	Sidechain
1	gM	173	ARG	Sidechain
1	gM	18	ARG	Sidechain
1	gM	229	ARG	Sidechain
1	gM	40	PHE	Sidechain
1	gM	62	HIS	Sidechain
1	gM	89	GLY	Peptide
1	gN	143	ARG	Sidechain
1	gN	146	SER	Peptide
1	gN	169	TYR	Sidechain
1	gO	100	ARG	Sidechain
1	gO	120	HIS	Sidechain
1	gO	132	ARG	Sidechain
1	gO	154	ARG	Sidechain
1	gO	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	gO	167	ARG	Sidechain
1	gO	169	TYR	Sidechain
1	gO	82	ARG	Sidechain
1	gO	97	ARG	Sidechain
1	gP	161	PHE	Mainchain
1	gP	167	ARG	Sidechain
1	gP	229	ARG	Sidechain
1	gP	32	PHE	Sidechain
1	gP	33	SER	Peptide
1	gP	87	HIS	Sidechain
1	gQ	130	TYR	Sidechain
1	gR	143	ARG	Sidechain
1	gR	145	TYR	Sidechain
1	gR	229	ARG	Sidechain
1	gR	82	ARG	Sidechain
1	gR	87	HIS	Sidechain
1	gS	145	TYR	Sidechain
1	gS	169	TYR	Sidechain
1	gS	173	ARG	Sidechain
1	gS	18	ARG	Sidechain
1	gS	229	ARG	Sidechain
1	gS	40	PHE	Sidechain
1	gS	84	HIS	Peptide
1	gS	87	HIS	Sidechain
1	gT	100	ARG	Sidechain
1	gT	132	ARG	Sidechain
1	gT	143	ARG	Sidechain
1	gT	169	TYR	Sidechain
1	gT	82	ARG	Sidechain
1	gU	120	HIS	Sidechain
1	gU	124	ILE	Peptide
1	gU	130	TYR	Sidechain
1	gU	132	ARG	Sidechain
1	gU	162	ARG	Sidechain
1	gU	167	ARG	Sidechain
1	gU	173	ARG	Sidechain
1	gU	229	ARG	Sidechain
1	gV	100	ARG	Sidechain
1	gV	164	TYR	Sidechain
1	gV	167	ARG	Sidechain
1	gW	100	ARG	Sidechain
1	gW	119	THR	Peptide

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Mol	Chain	Res	Type	Group
1	gW	120	HIS	Sidechain
1	gW	173	ARG	Sidechain
1	gW	82	ARG	Sidechain
1	gW	87	HIS	Sidechain
1	gX	100	ARG	Sidechain
1	gX	130	TYR	Sidechain
1	gX	132	ARG	Sidechain
1	gX	154	ARG	Sidechain
1	gX	161	PHE	Sidechain
1	gX	167	ARG	Sidechain
1	gX	18	ARG	Sidechain
1	gX	62	HIS	Sidechain
1	gX	82	ARG	Sidechain
1	gX	97	ARG	Sidechain
1	gY	121	ASN	Peptide
1	gY	143	ARG	Sidechain
1	gY	164	TYR	Sidechain
1	gY	229	ARG	Sidechain
1	gY	62	HIS	Sidechain
1	gZ	130	TYR	Sidechain
1	gZ	173	ARG	Sidechain
1	gZ	87	HIS	Sidechain
1	ga	121	ASN	Peptide
1	ga	130	TYR	Sidechain
1	ga	154	ARG	Sidechain
1	ga	161	PHE	Sidechain
1	ga	164	TYR	Sidechain
1	ga	169	TYR	Sidechain
1	ga	18	ARG	Sidechain
1	gb	120	HIS	Sidechain
1	gb	124	ILE	Peptide
1	gb	143	ARG	Sidechain
1	gb	145	TYR	Sidechain
1	gb	167	ARG	Sidechain
1	gb	169	TYR	Sidechain
1	gb	229	ARG	Sidechain
1	gb	40	PHE	Sidechain
1	gc	143	ARG	Sidechain
1	gc	164	TYR	Sidechain
1	gc	82	ARG	Sidechain
1	gd	100	ARG	Sidechain
1	gd	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	gd	32	PHE	Sidechain
1	gd	87	HIS	Sidechain
1	ge	130	TYR	Sidechain
1	ge	132	ARG	Sidechain
1	ge	145	TYR	Sidechain
1	ge	154	ARG	Sidechain
1	ge	164	TYR	Sidechain
1	ge	169	TYR	Sidechain
1	gf	100	ARG	Sidechain
1	gf	154	ARG	Sidechain
1	gf	162	ARG	Sidechain
1	gf	169	TYR	Sidechain
1	gf	229	ARG	Sidechain
1	gg	124	ILE	Peptide
1	gg	130	TYR	Sidechain
1	gg	162	ARG	Sidechain
1	gg	173	ARG	Sidechain
1	gg	229	ARG	Sidechain
1	gg	82	ARG	Sidechain
1	gg	84	HIS	Sidechain
1	gh	119	THR	Peptide
1	gh	132	ARG	Sidechain
1	gh	145	TYR	Sidechain
1	gh	169	TYR	Sidechain
1	gh	173	ARG	Sidechain
1	gh	195	ASN	Peptide
1	gh	229	ARG	Sidechain
1	gi	100	ARG	Sidechain
1	gi	124	ILE	Peptide
1	gi	32	PHE	Sidechain
1	gi	40	PHE	Sidechain
1	gi	82	ARG	Sidechain
1	gj	145	TYR	Sidechain
1	gj	164	TYR	Sidechain
1	gk	130	TYR	Sidechain
1	gk	132	ARG	Sidechain
1	gk	154	ARG	Sidechain
1	gk	164	TYR	Sidechain
1	gk	18	ARG	Sidechain
1	gl	100	ARG	Sidechain
1	gl	162	ARG	Sidechain
1	gl	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	gl	226	HIS	Sidechain
1	gl	97	ARG	Sidechain
1	gl	98	GLU	Peptide
1	gm	168	PHE	Sidechain
1	gm	229	ARG	Sidechain
1	gm	84	HIS	Sidechain
1	gn	12	HIS	Sidechain
1	gn	167	ARG	Sidechain
1	gn	168	PHE	Sidechain
1	gn	169	TYR	Sidechain
1	gn	18	ARG	Sidechain
1	gn	87	HIS	Sidechain
1	gn	97	ARG	Sidechain
1	go	121	ASN	Peptide
1	go	124	ILE	Peptide
1	go	143	ARG	Sidechain
1	go	146	SER	Peptide
1	go	169	TYR	Sidechain
1	go	179	GLN	Mainchain
1	go	3	VAL	Mainchain
1	gp	124	ILE	Peptide
1	gp	130	TYR	Sidechain
1	gp	132	ARG	Sidechain
1	gp	154	ARG	Sidechain
1	gp	164	TYR	Sidechain
1	gp	169	TYR	Sidechain
1	gp	84	HIS	Sidechain
1	gq	100	ARG	Sidechain
1	gq	12	HIS	Sidechain
1	gq	145	TYR	Sidechain
1	gq	154	ARG	Sidechain
1	gq	168	PHE	Sidechain
1	gq	18	ARG	Sidechain
1	gq	97	ARG	Sidechain
1	gr	100	ARG	Sidechain
1	gr	136	LEU	Peptide
1	gr	145	TYR	Sidechain
1	gr	167	ARG	Sidechain
1	gr	32	PHE	Sidechain
1	gr	62	HIS	Sidechain
1	gr	97	ARG	Sidechain
1	gs	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	gs	154	ARG	Sidechain
1	gs	18	ARG	Sidechain
1	gs	229	ARG	Sidechain
1	gs	32	PHE	Sidechain
1	gs	87	HIS	Sidechain
1	gs	97	ARG	Sidechain
1	gt	121	ASN	Peptide
1	gt	124	ILE	Peptide
1	gt	167	ARG	Sidechain
1	gt	168	PHE	Sidechain
1	gt	87	HIS	Sidechain
1	gu	120	HIS	Sidechain
1	gu	132	ARG	Sidechain
1	gu	145	TYR	Sidechain
1	gu	48	THR	Peptide
1	gv	121	ASN	Peptide
1	gv	162	ARG	Sidechain
1	gv	164	TYR	Sidechain
1	gv	169	TYR	Sidechain
1	gv	97	ARG	Sidechain
1	gw	124	ILE	Peptide
1	gw	130	TYR	Sidechain
1	gw	154	ARG	Sidechain
1	gw	164	TYR	Sidechain
1	gw	169	TYR	Sidechain
1	gw	18	ARG	Sidechain
1	gx	121	ASN	Peptide
1	gx	162	ARG	Sidechain
1	gx	167	ARG	Sidechain
1	gx	86	VAL	Peptide
1	gy	145	TYR	Sidechain
1	gy	161	PHE	Sidechain
1	gy	162	ARG	Sidechain
1	gy	164	TYR	Sidechain
1	gy	167	ARG	Sidechain
1	gz	130	TYR	Sidechain
1	gz	146	SER	Peptide
1	gz	82	ARG	Sidechain
1	h	132	ARG	Sidechain
1	h	143	ARG	Sidechain
1	h	18	ARG	Sidechain
1	h0	120	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	h0	121	ASN	Peptide
1	h0	161	PHE	Sidechain
1	h0	229	ARG	Sidechain
1	h0	82	ARG	Sidechain
1	h0	84	HIS	Sidechain
1	h0	89	GLY	Peptide
1	h1	100	ARG	Sidechain
1	h1	173	ARG	Sidechain
1	h1	40	PHE	Sidechain
1	h2	120	HIS	Sidechain
1	h2	132	ARG	Sidechain
1	h2	169	TYR	Sidechain
1	h2	82	ARG	Sidechain
1	h3	120	HIS	Sidechain
1	h3	130	TYR	Sidechain
1	h3	173	ARG	Sidechain
1	h3	18	ARG	Sidechain
1	h3	40	PHE	Sidechain
1	h4	142	VAL	Mainchain
1	h4	143	ARG	Sidechain
1	h4	154	ARG	Sidechain
1	h4	164	TYR	Sidechain
1	h4	169	TYR	Sidechain
1	h4	229	ARG	Sidechain
1	h5	100	ARG	Sidechain
1	h5	143	ARG	Sidechain
1	h5	145	TYR	Sidechain
1	h5	154	ARG	Sidechain
1	h5	167	ARG	Sidechain
1	h5	169	TYR	Sidechain
1	h5	18	ARG	Sidechain
1	h5	32	PHE	Sidechain
1	h5	82	ARG	Sidechain
1	h5	87	HIS	Sidechain
1	h6	100	ARG	Sidechain
1	h6	12	HIS	Sidechain
1	h6	120	HIS	Sidechain
1	h6	154	ARG	Sidechain
1	h6	164	TYR	Sidechain
1	h6	169	TYR	Sidechain
1	h7	124	ILE	Peptide
1	h7	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	h8	164	TYR	Sidechain
1	h8	169	TYR	Sidechain
1	h8	18	ARG	Sidechain
1	h9	113	GLU	Sidechain
1	h9	143	ARG	Sidechain
1	h9	145	TYR	Sidechain
1	h9	84	HIS	Sidechain
1	hA	130	TYR	Sidechain
1	hA	143	ARG	Sidechain
1	hA	162	ARG	Sidechain
1	hA	164	TYR	Sidechain
1	hB	169	TYR	Sidechain
1	hB	87	HIS	Sidechain
1	hC	120	HIS	Sidechain
1	hC	161	PHE	Sidechain
1	hC	164	TYR	Sidechain
1	hC	169	TYR	Sidechain
1	hC	18	ARG	Sidechain
1	hC	206	GLY	Peptide
1	hC	229	ARG	Sidechain
1	hD	132	ARG	Sidechain
1	hD	146	SER	Peptide
1	hD	173	ARG	Sidechain
1	hD	18	ARG	Sidechain
1	hD	229	ARG	Sidechain
1	hD	95	GLN	Peptide
1	hE	143	ARG	Sidechain
1	hE	154	ARG	Sidechain
1	hE	169	TYR	Sidechain
1	hE	229	ARG	Sidechain
1	hF	100	ARG	Sidechain
1	hF	121	ASN	Peptide
1	hF	132	ARG	Sidechain
1	hF	154	ARG	Sidechain
1	hF	169	TYR	Sidechain
1	hF	229	ARG	Sidechain
1	hF	84	HIS	Peptide
1	hF	89	GLY	Peptide
1	hG	121	ASN	Peptide
1	hG	173	ARG	Sidechain
1	hG	18	ARG	Sidechain
1	hG	48	THR	Peptide

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Mol	Chain	Res	Type	Group
1	hH	100	ARG	Sidechain
1	hH	164	TYR	Sidechain
1	hH	18	ARG	Sidechain
1	hH	87	HIS	Sidechain
1	hI	124	ILE	Peptide
1	hI	154	ARG	Sidechain
1	hI	161	PHE	Sidechain
1	hI	169	TYR	Sidechain
1	hI	18	ARG	Sidechain
1	hI	229	ARG	Sidechain
1	hJ	100	ARG	Sidechain
1	hJ	130	TYR	Sidechain
1	hJ	159	GLU	Peptide
1	hJ	162	ARG	Sidechain
1	hJ	167	ARG	Sidechain
1	hJ	168	PHE	Sidechain
1	hJ	18	ARG	Sidechain
1	hK	124	ILE	Peptide
1	hK	130	TYR	Sidechain
1	hK	162	ARG	Sidechain
1	hK	164	TYR	Sidechain
1	hK	167	ARG	Sidechain
1	hL	124	ILE	Peptide
1	hL	143	ARG	Sidechain
1	hL	145	TYR	Sidechain
1	hL	154	ARG	Sidechain
1	hL	173	ARG	Sidechain
1	hL	223	GLY	Peptide
1	hL	229	ARG	Sidechain
1	hL	84	HIS	Sidechain,Peptide
1	hM	120	HIS	Sidechain
1	hM	130	TYR	Sidechain
1	hM	145	TYR	Sidechain
1	hM	162	ARG	Sidechain
1	hM	173	ARG	Sidechain
1	hM	226	HIS	Sidechain
1	hM	32	PHE	Sidechain
1	hM	40	PHE	Sidechain
1	hN	120	HIS	Sidechain
1	hN	160	PRO	Peptide
1	hN	162	ARG	Sidechain
1	hN	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	hN	179	GLN	Mainchain
1	hN	18	ARG	Sidechain
1	hN	229	ARG	Sidechain
1	hN	62	HIS	Sidechain
1	hN	84	HIS	Sidechain
1	hO	100	ARG	Sidechain
1	hO	162	ARG	Sidechain
1	hO	168	PHE	Sidechain
1	hO	87	HIS	Sidechain
1	hP	121	ASN	Peptide
1	hP	150	ILE	Peptide
1	hP	164	TYR	Sidechain
1	hP	167	ARG	Sidechain
1	hP	229	ARG	Sidechain
1	hQ	124	ILE	Peptide
1	hQ	206	GLY	Peptide
1	hQ	82	ARG	Sidechain
1	hQ	89	GLY	Peptide
1	hR	121	ASN	Peptide
1	hR	124	ILE	Peptide
1	hR	143	ARG	Sidechain
1	hR	145	TYR	Sidechain
1	hR	169	TYR	Sidechain
1	hR	226	HIS	Sidechain
1	hS	145	TYR	Sidechain
1	hS	164	TYR	Sidechain
1	hS	167	ARG	Sidechain
1	hS	173	ARG	Sidechain
1	hS	32	PHE	Sidechain
1	hT	100	ARG	Sidechain
1	hT	120	HIS	Sidechain
1	hT	145	TYR	Sidechain
1	hT	40	PHE	Sidechain
1	hT	97	ARG	Sidechain
1	hU	120	HIS	Sidechain
1	hU	130	TYR	Sidechain
1	hU	143	ARG	Sidechain
1	hU	167	ARG	Sidechain
1	hU	173	ARG	Sidechain
1	hU	206	GLY	Peptide
1	hU	229	ARG	Sidechain
1	hU	87	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	hU	97	ARG	Sidechain
1	hV	124	ILE	Peptide
1	hV	143	ARG	Sidechain
1	hV	145	TYR	Sidechain
1	hV	161	PHE	Sidechain
1	hV	162	ARG	Sidechain
1	hV	167	ARG	Sidechain
1	hV	169	TYR	Sidechain
1	hV	18	ARG	Sidechain
1	hV	97	ARG	Sidechain
1	hW	130	TYR	Sidechain
1	hW	143	ARG	Sidechain
1	hW	145	TYR	Sidechain
1	hW	154	ARG	Sidechain
1	hW	161	PHE	Sidechain
1	hW	167	ARG	Sidechain
1	hW	18	ARG	Sidechain
1	hW	183	ASN	Peptide
1	hW	97	ARG	Sidechain
1	hX	100	ARG	Sidechain
1	hX	145	TYR	Sidechain
1	hX	198	CYS	Mainchain
1	hX	97	ARG	Sidechain
1	hY	1	PRO	Peptide
1	hY	100	ARG	Sidechain
1	hY	169	TYR	Sidechain
1	hY	173	ARG	Sidechain
1	hY	226	HIS	Peptide
1	hY	229	ARG	Sidechain
1	hY	40	PHE	Sidechain
1	hY	97	ARG	Sidechain,Peptide
1	hZ	121	ASN	Peptide
1	hZ	130	TYR	Sidechain
1	hZ	173	ARG	Sidechain
1	hZ	18	ARG	Sidechain
1	hZ	62	HIS	Sidechain
1	ha	121	ASN	Peptide
1	ha	124	ILE	Peptide
1	ha	130	TYR	Mainchain
1	ha	132	ARG	Sidechain
1	ha	97	ARG	Sidechain
1	hb	154	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	hb	162	ARG	Sidechain
1	hb	84	HIS	Sidechain
1	hb	97	ARG	Sidechain
1	hc	12	HIS	Sidechain
1	hc	130	TYR	Sidechain
1	hc	143	ARG	Sidechain
1	hc	229	ARG	Sidechain
1	hd	132	ARG	Sidechain
1	hd	143	ARG	Sidechain
1	hd	162	ARG	Sidechain
1	hd	229	ARG	Sidechain
1	hd	32	PHE	Sidechain
1	hd	84	HIS	Sidechain
1	he	103	ASP	Sidechain
1	he	12	HIS	Sidechain
1	he	124	ILE	Peptide
1	he	132	ARG	Sidechain
1	he	154	ARG	Sidechain
1	he	162	ARG	Sidechain
1	he	169	TYR	Sidechain
1	he	82	ARG	Sidechain
1	hf	132	ARG	Sidechain
1	hf	154	ARG	Sidechain
1	hf	167	ARG	Sidechain
1	hf	82	ARG	Sidechain
1	hg	154	ARG	Sidechain
1	hg	167	ARG	Sidechain
1	hg	168	PHE	Sidechain
1	hg	62	HIS	Sidechain
1	hh	173	ARG	Sidechain
1	hh	226	HIS	Sidechain
1	hh	82	ARG	Sidechain
1	hh	97	ARG	Sidechain
1	hi	120	HIS	Sidechain
1	hi	164	TYR	Sidechain
1	hi	229	ARG	Sidechain
1	hj	100	ARG	Sidechain
1	hj	154	ARG	Sidechain
1	hj	162	ARG	Sidechain
1	hj	167	ARG	Sidechain
1	hj	169	TYR	Sidechain
1	hj	87	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	hk	154	ARG	Sidechain
1	hk	166	ASP	Mainchain
1	hk	18	ARG	Sidechain
1	hl	130	TYR	Sidechain
1	hl	132	ARG	Sidechain
1	hm	132	ARG	Sidechain
1	hm	143	ARG	Sidechain
1	hm	154	ARG	Sidechain
1	hm	162	ARG	Sidechain
1	hm	164	TYR	Sidechain
1	hm	169	TYR	Sidechain
1	hn	100	ARG	Sidechain
1	hn	124	ILE	Peptide
1	hn	162	ARG	Sidechain
1	hn	167	ARG	Sidechain
1	hn	169	TYR	Sidechain
1	hn	18	ARG	Sidechain
1	hn	84	HIS	Peptide
1	ho	121	ASN	Peptide
1	ho	132	ARG	Sidechain
1	ho	145	TYR	Sidechain
1	ho	162	ARG	Sidechain
1	ho	169	TYR	Sidechain
1	ho	173	ARG	Sidechain
1	ho	40	PHE	Sidechain
1	ho	47	ALA	Peptide
1	hp	100	ARG	Sidechain
1	hp	120	HIS	Sidechain
1	hp	130	TYR	Sidechain
1	hp	132	ARG	Sidechain
1	hp	143	ARG	Sidechain
1	hp	145	TYR	Sidechain
1	hp	164	TYR	Sidechain
1	hp	167	ARG	Sidechain
1	hp	18	ARG	Sidechain
1	hp	193	ASN	Sidechain
1	hp	82	ARG	Sidechain
1	hq	124	ILE	Peptide
1	hq	143	ARG	Sidechain
1	hq	145	TYR	Sidechain
1	hq	164	TYR	Sidechain
1	hq	169	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	hq	206	GLY	Peptide
1	hq	40	PHE	Sidechain
1	hq	97	ARG	Sidechain
1	hr	143	ARG	Sidechain
1	hr	145	TYR	Sidechain
1	hr	154	ARG	Sidechain
1	hr	162	ARG	Sidechain
1	hr	164	TYR	Sidechain
1	hr	221	VAL	Mainchain
1	hs	100	ARG	Sidechain
1	hs	124	ILE	Peptide
1	hs	130	TYR	Sidechain
1	hs	143	ARG	Sidechain
1	hs	145	TYR	Sidechain
1	hs	167	ARG	Sidechain
1	hs	169	TYR	Sidechain
1	hs	81	ASP	Sidechain
1	ht	143	ARG	Sidechain
1	ht	159	GLU	Peptide
1	ht	169	TYR	Sidechain
1	ht	189	LEU	Mainchain
1	ht	6	LEU	Peptide
1	hu	130	TYR	Sidechain
1	hu	18	ARG	Sidechain
1	hu	40	PHE	Sidechain
1	hv	130	TYR	Sidechain
1	hv	162	ARG	Sidechain
1	hv	164	TYR	Sidechain
1	hv	167	ARG	Sidechain
1	hv	169	TYR	Sidechain
1	hv	32	PHE	Sidechain
1	hv	40	PHE	Sidechain
1	hw	145	TYR	Sidechain
1	hw	16	SER	Peptide
1	hw	168	PHE	Sidechain
1	hw	229	ARG	Sidechain
1	hx	124	ILE	Peptide
1	hx	162	ARG	Sidechain
1	hx	167	ARG	Sidechain
1	hx	169	TYR	Sidechain
1	hx	82	ARG	Sidechain
1	hy	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	hy	164	TYR	Sidechain
1	hy	173	ARG	Sidechain
1	hy	18	ARG	Sidechain
1	hy	229	ARG	Sidechain
1	hy	84	HIS	Sidechain
1	hz	130	TYR	Sidechain
1	hz	132	ARG	Sidechain
1	hz	145	TYR	Sidechain
1	hz	162	ARG	Sidechain
1	hz	173	ARG	Sidechain
1	hz	32	PHE	Sidechain
1	hz	82	ARG	Sidechain
1	i	121	ASN	Peptide
1	i	143	ARG	Sidechain
1	i	145	TYR	Sidechain
1	i	154	ARG	Sidechain
1	i	169	TYR	Sidechain
1	i	40	PHE	Sidechain
1	i0	130	TYR	Sidechain
1	i0	132	ARG	Sidechain
1	i0	143	ARG	Sidechain
1	i0	154	ARG	Sidechain
1	i0	164	TYR	Sidechain
1	i0	167	ARG	Sidechain
1	i0	173	ARG	Sidechain
1	i0	84	HIS	Peptide
1	i1	120	HIS	Sidechain
1	i1	124	ILE	Peptide
1	i1	132	ARG	Sidechain
1	i1	18	ARG	Sidechain
1	i1	206	GLY	Peptide
1	i1	87	HIS	Sidechain
1	i2	121	ASN	Peptide
1	i2	123	PRO	Peptide
1	i2	143	ARG	Sidechain
1	i2	145	TYR	Sidechain
1	i2	162	ARG	Sidechain
1	i2	166	ASP	Sidechain
1	i2	167	ARG	Sidechain
1	i2	173	ARG	Sidechain
1	i2	18	ARG	Sidechain
1	i2	32	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	i3	100	ARG	Sidechain
1	i3	130	TYR	Sidechain
1	i3	173	ARG	Sidechain
1	i4	143	ARG	Sidechain
1	i4	145	TYR	Sidechain
1	i4	164	TYR	Sidechain
1	i4	165	VAL	Mainchain
1	i4	18	ARG	Sidechain
1	i4	229	ARG	Sidechain
1	i4	82	ARG	Sidechain
1	i5	16	SER	Peptide
1	i5	164	TYR	Sidechain
1	i5	169	TYR	Sidechain
1	i5	173	ARG	Sidechain
1	i5	229	ARG	Sidechain
1	i5	62	HIS	Sidechain
1	i5	94	GLY	Peptide
1	i6	132	ARG	Sidechain
1	i6	169	TYR	Sidechain
1	i6	18	ARG	Sidechain
1	i7	121	ASN	Peptide
1	i7	124	ILE	Peptide
1	i7	130	TYR	Sidechain
1	i7	143	ARG	Sidechain
1	i7	154	ARG	Sidechain
1	i7	161	PHE	Sidechain
1	i7	162	ARG	Sidechain
1	i7	164	TYR	Sidechain
1	i7	18	ARG	Sidechain
1	i7	229	ARG	Sidechain
1	i7	32	PHE	Sidechain
1	i7	62	HIS	Sidechain
1	i8	121	ASN	Peptide
1	i8	162	ARG	Sidechain
1	i8	167	ARG	Sidechain
1	i8	226	HIS	Sidechain
1	i9	123	PRO	Peptide
1	i9	132	ARG	Sidechain
1	i9	145	TYR	Sidechain
1	i9	18	ARG	Sidechain
1	i9	82	ARG	Sidechain
1	iA	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	iA	121	ASN	Peptide
1	iA	124	ILE	Peptide
1	iA	130	TYR	Sidechain
1	iA	143	ARG	Sidechain
1	iA	154	ARG	Sidechain
1	iA	169	TYR	Sidechain
1	iB	124	ILE	Peptide
1	iB	143	ARG	Sidechain
1	iB	145	TYR	Sidechain
1	iC	120	HIS	Sidechain
1	iC	121	ASN	Peptide
1	iC	124	ILE	Peptide
1	iC	130	TYR	Sidechain
1	iC	145	TYR	Sidechain
1	iD	120	HIS	Sidechain
1	iD	124	ILE	Peptide
1	iD	152	ASP	Sidechain
1	iD	167	ARG	Sidechain
1	iE	145	TYR	Sidechain
1	iE	169	TYR	Sidechain
1	iE	173	ARG	Sidechain
1	iE	87	HIS	Sidechain
1	iF	143	ARG	Sidechain
1	iF	145	TYR	Sidechain
1	iF	154	ARG	Sidechain
1	iF	167	ARG	Sidechain
1	iF	229	ARG	Sidechain
1	iG	130	TYR	Sidechain
1	iG	143	ARG	Sidechain
1	iG	145	TYR	Sidechain
1	iG	97	ARG	Sidechain
1	iH	124	ILE	Peptide
1	iH	154	ARG	Sidechain
1	iH	161	PHE	Sidechain
1	iH	169	TYR	Sidechain
1	iH	173	ARG	Sidechain
1	iH	87	HIS	Sidechain
1	iI	121	ASN	Peptide
1	iI	161	PHE	Sidechain
1	iI	168	PHE	Sidechain
1	iI	62	HIS	Sidechain
1	iJ	120	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	iJ	124	ILE	Peptide
1	iJ	143	ARG	Sidechain
1	iJ	145	TYR	Sidechain
1	iJ	169	TYR	Sidechain
1	iJ	173	ARG	Sidechain
1	iJ	187	GLU	Peptide
1	iJ	62	HIS	Sidechain
1	iJ	87	HIS	Sidechain
1	iJ	97	ARG	Sidechain
1	iK	143	ARG	Sidechain
1	iK	146	SER	Peptide
1	iK	18	ARG	Sidechain
1	iL	143	ARG	Sidechain
1	iL	173	ARG	Sidechain
1	iM	120	HIS	Sidechain
1	iM	143	ARG	Sidechain
1	iM	145	TYR	Sidechain
1	iM	154	ARG	Sidechain
1	iN	100	ARG	Sidechain
1	iN	132	ARG	Sidechain
1	iN	154	ARG	Sidechain
1	iN	162	ARG	Sidechain
1	iN	164	TYR	Sidechain
1	iN	169	TYR	Sidechain
1	iN	18	ARG	Sidechain
1	iN	62	HIS	Sidechain
1	iO	120	HIS	Sidechain
1	iO	124	ILE	Peptide
1	iO	167	ARG	Sidechain
1	iO	168	PHE	Sidechain
1	iO	18	ARG	Sidechain
1	iO	189	LEU	Peptide
1	iP	111	LEU	Mainchain
1	iP	162	ARG	Sidechain
1	iP	169	TYR	Sidechain
1	iP	84	HIS	Sidechain
1	iQ	132	ARG	Sidechain
1	iQ	145	TYR	Sidechain
1	iQ	167	ARG	Sidechain
1	iR	120	HIS	Sidechain
1	iR	143	ARG	Sidechain
1	iR	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	iR	164	TYR	Sidechain
1	iR	18	ARG	Sidechain
1	iR	229	ARG	Sidechain
1	iR	40	PHE	Sidechain
1	iS	100	ARG	Sidechain
1	iS	141	ILE	Mainchain
1	iS	154	ARG	Sidechain
1	iS	164	TYR	Sidechain
1	iS	168	PHE	Sidechain
1	iS	173	ARG	Sidechain
1	iS	18	ARG	Peptide
1	iS	229	ARG	Sidechain
1	iT	120	HIS	Sidechain
1	iT	16	SER	Peptide
1	iT	169	TYR	Sidechain
1	iT	229	ARG	Sidechain
1	iT	32	PHE	Sidechain
1	iU	82	ARG	Sidechain
1	iV	130	TYR	Sidechain
1	iV	167	ARG	Sidechain
1	iV	173	ARG	Sidechain
1	iV	40	PHE	Sidechain
1	iV	82	ARG	Sidechain
1	iV	84	HIS	Sidechain
1	iV	97	ARG	Sidechain
1	iW	130	TYR	Sidechain
1	iW	143	ARG	Sidechain
1	iW	145	TYR	Sidechain
1	iW	164	TYR	Sidechain
1	iW	201	ILE	Peptide
1	iX	100	ARG	Sidechain
1	iX	120	HIS	Sidechain
1	iX	121	ASN	Peptide
1	iX	169	TYR	Sidechain
1	iY	100	ARG	Sidechain
1	iY	121	ASN	Peptide
1	iY	145	TYR	Sidechain
1	iY	154	ARG	Sidechain
1	iY	229	ARG	Sidechain
1	iY	84	HIS	Peptide
1	iY	97	ARG	Sidechain
1	iZ	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	iZ	132	ARG	Sidechain
1	iZ	143	ARG	Sidechain
1	iZ	145	TYR	Sidechain
1	iZ	157	PRO	Peptide
1	iZ	169	TYR	Sidechain
1	ia	130	TYR	Sidechain
1	ia	132	ARG	Sidechain
1	ia	146	SER	Peptide
1	ia	169	TYR	Sidechain
1	ia	18	ARG	Sidechain
1	ib	132	ARG	Sidechain
1	ib	154	ARG	Sidechain
1	ib	167	ARG	Sidechain
1	ib	168	PHE	Sidechain
1	ic	124	ILE	Peptide
1	ic	132	ARG	Sidechain
1	ic	87	HIS	Sidechain
1	id	121	ASN	Peptide
1	id	130	TYR	Sidechain
1	id	145	TYR	Sidechain
1	id	20	LEU	Mainchain
1	ie	120	HIS	Sidechain
1	ie	132	ARG	Sidechain
1	ie	143	ARG	Sidechain
1	ie	162	ARG	Sidechain
1	ie	169	TYR	Sidechain
1	ie	205	LEU	Peptide
1	ie	97	ARG	Sidechain
1	if	106	GLY	Peptide
1	if	169	TYR	Sidechain
1	if	173	ARG	Sidechain
1	ig	120	HIS	Sidechain
1	ig	124	ILE	Peptide
1	ig	130	TYR	Sidechain
1	ig	145	TYR	Sidechain
1	ig	154	ARG	Sidechain
1	ig	164	TYR	Sidechain
1	ig	167	ARG	Sidechain
1	ig	169	TYR	Sidechain
1	ig	229	ARG	Peptide
1	ig	94	GLY	Mainchain
1	ig	95	GLN	Peptide

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Mol	Chain	Res	Type	Group
1	ih	100	ARG	Sidechain
1	ih	120	HIS	Sidechain
1	ih	143	ARG	Sidechain
1	ih	162	ARG	Sidechain
1	ih	164	TYR	Sidechain
1	ih	167	ARG	Sidechain
1	ih	169	TYR	Sidechain
1	ih	191	VAL	Peptide
1	ih	229	ARG	Sidechain
1	ih	32	PHE	Sidechain
1	ii	130	TYR	Sidechain
1	ii	173	ARG	Sidechain
1	ii	229	ARG	Sidechain
1	ii	97	ARG	Sidechain
1	ij	121	ASN	Peptide
1	ij	124	ILE	Peptide
1	ij	132	ARG	Sidechain
1	ij	143	ARG	Sidechain
1	ij	167	ARG	Sidechain
1	ij	173	ARG	Sidechain
1	ij	82	ARG	Sidechain
1	ik	121	ASN	Peptide
1	ik	124	ILE	Peptide
1	ik	130	TYR	Sidechain
1	ik	143	ARG	Sidechain
1	ik	162	ARG	Sidechain
1	ik	164	TYR	Sidechain
1	ik	226	HIS	Peptide
1	ik	97	ARG	Sidechain
1	il	100	ARG	Sidechain
1	il	121	ASN	Peptide
1	il	162	ARG	Sidechain
1	il	168	PHE	Sidechain
1	il	173	ARG	Sidechain
1	il	82	ARG	Sidechain
1	il	97	ARG	Sidechain
1	im	130	TYR	Sidechain
1	im	154	ARG	Sidechain
1	im	162	ARG	Sidechain
1	im	169	TYR	Sidechain
1	im	173	ARG	Sidechain
1	im	87	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	in	100	ARG	Sidechain
1	in	164	TYR	Sidechain
1	in	167	ARG	Sidechain
1	in	229	ARG	Sidechain
1	io	121	ASN	Peptide
1	io	173	ARG	Sidechain
1	io	18	ARG	Sidechain
1	io	228	ALA	Peptide
1	ip	143	ARG	Sidechain
1	ip	145	TYR	Sidechain
1	ip	154	ARG	Sidechain
1	ip	161	PHE	Sidechain
1	ip	167	ARG	Sidechain
1	ip	18	ARG	Sidechain
1	iq	130	TYR	Sidechain
1	iq	143	ARG	Sidechain
1	iq	167	ARG	Sidechain
1	iq	32	PHE	Sidechain
1	ir	100	ARG	Sidechain
1	ir	164	TYR	Sidechain
1	ir	229	ARG	Sidechain
1	ir	32	PHE	Sidechain
1	ir	40	PHE	Sidechain
1	ir	99	PRO	Peptide
1	is	143	ARG	Sidechain
1	is	162	ARG	Sidechain
1	is	167	ARG	Sidechain
1	is	173	ARG	Sidechain
1	is	229	ARG	Sidechain
1	it	132	ARG	Sidechain
1	it	143	ARG	Sidechain
1	it	18	ARG	Sidechain
1	iu	130	TYR	Sidechain
1	iu	149	SER	Mainchain
1	iu	154	ARG	Sidechain
1	iu	164	TYR	Sidechain
1	iu	167	ARG	Sidechain
1	iv	1	PRO	Mainchain
1	iv	143	ARG	Sidechain
1	iv	156	GLY	Peptide
1	iv	164	TYR	Sidechain
1	iv	167	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	iv	168	PHE	Sidechain
1	iv	169	TYR	Sidechain
1	iv	84	HIS	Sidechain
1	iw	100	ARG	Sidechain
1	iw	164	TYR	Sidechain
1	iw	167	ARG	Sidechain
1	iw	173	ARG	Sidechain
1	ix	130	TYR	Sidechain
1	ix	145	TYR	Sidechain
1	ix	162	ARG	Sidechain
1	ix	164	TYR	Sidechain
1	ix	18	ARG	Sidechain
1	ix	82	ARG	Sidechain
1	iy	143	ARG	Sidechain
1	iy	145	TYR	Sidechain
1	iy	164	TYR	Sidechain
1	iy	169	TYR	Sidechain
1	iy	32	PHE	Sidechain
1	iz	130	TYR	Sidechain
1	iz	132	ARG	Sidechain
1	iz	145	TYR	Sidechain
1	iz	173	ARG	Sidechain
1	iz	18	ARG	Sidechain
1	iz	99	PRO	Peptide
1	j	124	ILE	Peptide
1	j	229	ARG	Sidechain
1	j0	124	ILE	Peptide
1	j0	130	TYR	Sidechain
1	j0	161	PHE	Sidechain
1	j0	164	TYR	Sidechain
1	j0	167	ARG	Sidechain
1	j0	86	VAL	Peptide
1	j1	132	ARG	Sidechain
1	j1	143	ARG	Sidechain
1	j1	82	ARG	Sidechain
1	j2	130	TYR	Sidechain
1	j2	145	TYR	Sidechain
1	j2	154	ARG	Sidechain
1	j2	169	TYR	Sidechain
1	j2	226	HIS	Sidechain
1	j2	229	ARG	Sidechain
1	j2	97	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	j3	121	ASN	Peptide
1	j3	162	ARG	Sidechain
1	j3	164	TYR	Sidechain
1	j3	167	ARG	Sidechain
1	j3	169	TYR	Sidechain
1	j3	226	HIS	Sidechain
1	j4	124	ILE	Peptide
1	j4	132	ARG	Sidechain
1	j4	143	ARG	Sidechain
1	j5	130	TYR	Sidechain
1	j5	132	ARG	Sidechain
1	j5	161	PHE	Sidechain
1	j5	162	ARG	Sidechain
1	j5	164	TYR	Sidechain
1	j5	173	ARG	Sidechain
1	j5	32	PHE	Sidechain
1	j5	87	HIS	Sidechain
1	j6	121	ASN	Peptide
1	j6	143	ARG	Sidechain
1	j6	160	PRO	Peptide
1	j6	167	ARG	Sidechain
1	j6	173	ARG	Sidechain
1	j6	226	HIS	Sidechain
1	j7	145	TYR	Sidechain
1	j7	18	ARG	Sidechain
1	j8	132	ARG	Sidechain
1	j8	154	ARG	Sidechain
1	j8	161	PHE	Sidechain
1	j8	32	PHE	Sidechain
1	j8	97	ARG	Sidechain
1	j9	145	TYR	Sidechain
1	j9	162	ARG	Sidechain
1	j9	164	TYR	Sidechain
1	j9	167	ARG	Sidechain
1	j9	169	TYR	Sidechain
1	j9	189	LEU	Peptide
1	j9	226	HIS	Sidechain
1	j9	23	TRP	Mainchain
1	j9	82	ARG	Sidechain
1	jA	120	HIS	Sidechain
1	jA	132	ARG	Sidechain
1	jA	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	jA	167	ARG	Sidechain
1	jA	173	ARG	Sidechain
1	jA	18	ARG	Sidechain
1	jA	206	GLY	Peptide
1	jB	123	PRO	Peptide
1	jB	167	ARG	Sidechain
1	jB	61	GLY	Mainchain
1	jB	62	HIS	Sidechain
1	jB	82	ARG	Sidechain
1	jB	92	GLU	Mainchain
1	jC	100	ARG	Sidechain
1	jC	124	ILE	Peptide
1	jC	145	TYR	Sidechain
1	jC	162	ARG	Sidechain
1	jC	164	TYR	Sidechain
1	jC	87	HIS	Sidechain
1	jC	97	ARG	Sidechain
1	jD	100	ARG	Sidechain
1	jD	121	ASN	Peptide
1	jD	132	ARG	Sidechain
1	jD	154	ARG	Sidechain
1	jD	169	TYR	Sidechain
1	jD	32	PHE	Sidechain
1	jD	97	ARG	Sidechain
1	jE	120	HIS	Sidechain
1	jE	121	ASN	Peptide
1	jE	229	ARG	Sidechain
1	jE	82	ARG	Sidechain
1	jF	12	HIS	Sidechain
1	jF	121	ASN	Peptide
1	jF	130	TYR	Sidechain
1	jF	145	TYR	Sidechain
1	jF	173	ARG	Sidechain
1	jF	87	HIS	Sidechain
1	jF	88	ALA	Peptide
1	jF	97	ARG	Sidechain
1	jG	100	ARG	Sidechain
1	jG	14	ALA	Peptide
1	jG	62	HIS	Sidechain
1	jG	84	HIS	Peptide
1	jH	161	PHE	Sidechain
1	jH	173	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	jH	229	ARG	Sidechain
1	jH	84	HIS	Sidechain
1	jH	97	ARG	Sidechain
1	jI	132	ARG	Sidechain
1	jI	164	TYR	Sidechain
1	jI	97	ARG	Sidechain
1	jJ	145	TYR	Sidechain
1	jJ	168	PHE	Sidechain
1	jJ	169	TYR	Sidechain
1	jJ	173	ARG	Sidechain
1	jJ	223	GLY	Peptide
1	jJ	87	HIS	Sidechain
1	jJ	97	ARG	Sidechain
1	jK	100	ARG	Sidechain
1	jK	143	ARG	Sidechain
1	jK	173	ARG	Sidechain
1	jK	18	ARG	Sidechain
1	jK	226	HIS	Sidechain
1	jK	40	PHE	Sidechain
1	jK	82	ARG	Sidechain
1	jL	119	THR	Peptide
1	jL	145	TYR	Sidechain
1	jL	173	ARG	Sidechain
1	jL	18	ARG	Sidechain
1	jL	84	HIS	Sidechain
1	jL	97	ARG	Sidechain
1	jM	121	ASN	Peptide
1	jM	130	TYR	Sidechain
1	jM	146	SER	Peptide
1	jM	167	ARG	Sidechain
1	jM	169	TYR	Sidechain
1	jN	130	TYR	Sidechain
1	jN	154	ARG	Sidechain
1	jN	173	ARG	Sidechain
1	jN	226	HIS	Peptide
1	jO	132	ARG	Sidechain
1	jO	154	ARG	Sidechain
1	jO	167	ARG	Sidechain
1	jO	169	TYR	Sidechain
1	jO	226	HIS	Sidechain
1	jO	40	PHE	Sidechain
1	jO	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	jO	97	ARG	Sidechain
1	jP	132	ARG	Sidechain
1	jP	154	ARG	Sidechain
1	jP	161	PHE	Sidechain
1	jP	162	ARG	Sidechain
1	jP	167	ARG	Sidechain
1	jP	229	ARG	Sidechain
1	jQ	143	ARG	Sidechain
1	jQ	179	GLN	Mainchain
1	jQ	18	ARG	Sidechain
1	jQ	40	PHE	Sidechain
1	jQ	87	HIS	Sidechain
1	jR	143	ARG	Sidechain
1	jR	229	ARG	Sidechain
1	jS	100	ARG	Sidechain
1	jS	143	ARG	Sidechain
1	jS	145	TYR	Sidechain
1	jS	154	ARG	Sidechain
1	jS	162	ARG	Sidechain
1	jS	82	ARG	Sidechain
1	jT	121	ASN	Peptide
1	jT	132	ARG	Sidechain
1	jT	173	ARG	Sidechain
1	jT	182	LYS	Peptide
1	jT	229	ARG	Sidechain
1	jT	97	ARG	Sidechain
1	jU	162	ARG	Sidechain
1	jU	164	TYR	Sidechain
1	jU	168	PHE	Sidechain
1	jU	169	TYR	Sidechain
1	jU	173	ARG	Sidechain
1	jU	32	PHE	Sidechain
1	jV	132	ARG	Sidechain
1	jW	168	PHE	Sidechain
1	jW	84	HIS	Sidechain
1	jW	87	HIS	Sidechain
1	jW	97	ARG	Sidechain
1	jX	143	ARG	Sidechain
1	jX	169	TYR	Sidechain
1	jY	121	ASN	Peptide
1	jY	130	TYR	Sidechain
1	jY	132	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	jY	143	ARG	Sidechain
1	jY	162	ARG	Sidechain
1	jY	164	TYR	Sidechain
1	jY	173	ARG	Sidechain
1	jY	229	ARG	Sidechain
1	jY	82	ARG	Sidechain
1	jZ	100	ARG	Sidechain
1	jZ	130	TYR	Sidechain
1	jZ	132	ARG	Sidechain
1	jZ	164	TYR	Sidechain
1	jZ	40	PHE	Sidechain
1	jZ	62	HIS	Sidechain
1	jZ	84	HIS	Sidechain
1	jZ	97	ARG	Sidechain
1	ja	121	ASN	Peptide
1	ja	143	ARG	Sidechain
1	ja	229	ARG	Sidechain
1	ja	92	GLU	Peptide
1	jb	143	ARG	Sidechain
1	jb	145	TYR	Sidechain
1	jb	164	TYR	Sidechain
1	jb	18	ARG	Sidechain
1	jb	32	PHE	Sidechain
1	jb	97	ARG	Sidechain
1	jc	162	ARG	Sidechain
1	jc	164	TYR	Sidechain
1	jc	168	PHE	Sidechain
1	jc	173	ARG	Sidechain
1	jc	18	ARG	Sidechain
1	jc	181	VAL	Mainchain
1	jc	229	ARG	Sidechain
1	jc	82	ARG	Sidechain
1	jd	132	ARG	Sidechain
1	jd	167	ARG	Sidechain
1	jd	97	ARG	Sidechain
1	je	121	ASN	Peptide
1	je	124	ILE	Peptide
1	je	154	ARG	Sidechain
1	je	164	TYR	Sidechain
1	je	226	HIS	Sidechain
1	je	229	ARG	Sidechain
1	jf	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	jf	162	ARG	Sidechain
1	jf	167	ARG	Sidechain
1	jf	168	PHE	Sidechain
1	jf	173	ARG	Sidechain
1	jg	120	HIS	Sidechain
1	jg	145	TYR	Sidechain
1	jg	162	ARG	Sidechain
1	jg	169	TYR	Sidechain
1	jg	173	ARG	Sidechain
1	jg	18	ARG	Sidechain
1	jg	50	GLN	Mainchain
1	jg	62	HIS	Sidechain
1	jg	82	ARG	Sidechain
1	jg	84	HIS	Sidechain
1	jh	130	TYR	Sidechain
1	jh	154	ARG	Sidechain
1	jh	155	GLN	Mainchain
1	jh	164	TYR	Sidechain
1	jh	167	ARG	Sidechain
1	jh	173	ARG	Sidechain
1	jh	18	ARG	Sidechain
1	ji	143	ARG	Sidechain
1	ji	164	TYR	Sidechain
1	ji	169	TYR	Sidechain
1	ji	31	ALA	Peptide
1	ji	82	ARG	Sidechain
1	ji	84	HIS	Sidechain
1	ji	90	PRO	Peptide
1	jj	100	ARG	Sidechain
1	jj	120	HIS	Sidechain
1	jj	121	ASN	Peptide
1	jj	130	TYR	Sidechain
1	jj	154	ARG	Sidechain
1	jj	164	TYR	Sidechain
1	jj	173	ARG	Sidechain
1	jk	100	ARG	Sidechain
1	jk	130	TYR	Sidechain
1	jk	132	ARG	Sidechain
1	jk	169	TYR	Sidechain
1	jl	120	HIS	Sidechain
1	jl	121	ASN	Peptide
1	jl	133	TRP	Peptide

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Mol	Chain	Res	Type	Group
1	jl	146	SER	Peptide
1	jl	150	ILE	Mainchain
1	jl	229	ARG	Sidechain
1	jl	97	ARG	Sidechain
1	jm	124	ILE	Peptide
1	jm	130	TYR	Sidechain
1	jm	143	ARG	Sidechain
1	jm	173	ARG	Sidechain
1	jm	229	ARG	Sidechain
1	jm	26	VAL	Mainchain
1	jm	82	ARG	Sidechain
1	jm	87	HIS	Sidechain
1	jn	100	ARG	Sidechain
1	jn	145	TYR	Sidechain
1	jn	161	PHE	Sidechain
1	jn	162	ARG	Sidechain
1	jn	164	TYR	Sidechain
1	jn	173	ARG	Sidechain
1	jn	33	SER	Peptide
1	jo	124	ILE	Peptide
1	jo	154	ARG	Sidechain
1	jo	161	PHE	Sidechain
1	jo	18	ARG	Sidechain
1	jo	229	ARG	Sidechain
1	jo	32	PHE	Sidechain
1	jp	143	ARG	Sidechain
1	jp	154	ARG	Sidechain
1	jp	162	ARG	Sidechain
1	jp	173	ARG	Sidechain
1	jp	40	PHE	Sidechain
1	jq	100	ARG	Sidechain
1	jq	12	HIS	Sidechain
1	jq	130	TYR	Sidechain
1	jq	145	TYR	Sidechain
1	jq	164	TYR	Sidechain
1	jq	169	TYR	Sidechain
1	jq	229	ARG	Sidechain
1	jq	32	PHE	Sidechain
1	jq	82	ARG	Sidechain
1	jr	118	MET	Mainchain
1	jr	124	ILE	Peptide
1	jr	154	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	jr	167	ARG	Sidechain
1	js	130	TYR	Sidechain
1	js	145	TYR	Sidechain
1	js	154	ARG	Sidechain
1	js	162	ARG	Sidechain
1	js	167	ARG	Sidechain
1	js	206	GLY	Peptide
1	js	32	PHE	Sidechain
1	jt	167	ARG	Sidechain
1	jt	169	TYR	Sidechain
1	jt	173	ARG	Sidechain
1	jt	18	ARG	Sidechain
1	jt	229	ARG	Sidechain
1	jt	31	ALA	Peptide
1	jt	84	HIS	Sidechain
1	jt	87	HIS	Sidechain
1	ju	143	ARG	Sidechain
1	ju	154	ARG	Sidechain
1	ju	162	ARG	Sidechain
1	ju	167	ARG	Sidechain
1	ju	18	ARG	Sidechain
1	ju	40	PHE	Sidechain
1	ju	82	ARG	Sidechain
1	jv	164	TYR	Sidechain
1	jv	229	ARG	Sidechain
1	jw	132	ARG	Sidechain
1	jw	162	ARG	Sidechain
1	jw	32	PHE	Sidechain
1	jw	47	ALA	Peptide
1	jw	97	ARG	Sidechain
1	jx	145	TYR	Sidechain
1	jx	161	PHE	Sidechain
1	jx	169	TYR	Sidechain
1	jx	173	ARG	Sidechain
1	jx	18	ARG	Sidechain,Mainchain
1	jy	218	CYS	Peptide
1	jy	97	ARG	Sidechain
1	jz	143	ARG	Sidechain
1	jz	164	TYR	Sidechain
1	jz	173	ARG	Sidechain
1	jz	58	THR	Peptide
1	jz	97	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	k	124	ILE	Peptide
1	k	130	TYR	Sidechain
1	k	143	ARG	Sidechain
1	k	145	TYR	Sidechain
1	k	167	ARG	Sidechain
1	k	169	TYR	Sidechain
1	k	195	ASN	Peptide
1	k	229	ARG	Sidechain
1	k	82	ARG	Sidechain
1	k0	110	THR	Peptide
1	k0	121	ASN	Peptide
1	k0	132	ARG	Sidechain
1	k0	143	ARG	Sidechain
1	k0	159	GLU	Peptide
1	k0	162	ARG	Sidechain
1	k0	195	ASN	Peptide
1	k0	226	HIS	Sidechain
1	k0	40	PHE	Sidechain
1	k1	100	ARG	Sidechain
1	k1	132	ARG	Sidechain
1	k1	143	ARG	Sidechain
1	k1	145	TYR	Sidechain
1	k1	154	ARG	Sidechain
1	k1	169	TYR	Sidechain
1	k1	223	GLY	Peptide
1	k1	229	ARG	Sidechain
1	k2	132	ARG	Sidechain
1	k2	145	TYR	Sidechain
1	k2	164	TYR	Sidechain
1	k2	169	TYR	Sidechain
1	k2	32	PHE	Sidechain
1	k3	130	TYR	Sidechain
1	k3	132	ARG	Sidechain
1	k3	169	TYR	Sidechain
1	k3	97	ARG	Sidechain
1	k4	121	ASN	Peptide
1	k4	130	TYR	Sidechain
1	k4	161	PHE	Sidechain
1	k4	164	TYR	Sidechain
1	k4	167	ARG	Sidechain
1	k4	173	ARG	Sidechain
1	k4	82	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	k4	97	ARG	Sidechain
1	k5	154	ARG	Sidechain
1	k5	173	ARG	Sidechain
1	k5	20	LEU	Mainchain
1	k5	32	PHE	Sidechain
1	k6	143	ARG	Sidechain
1	k6	145	TYR	Sidechain
1	k6	161	PHE	Sidechain
1	k6	164	TYR	Sidechain
1	k6	167	ARG	Sidechain
1	k6	18	ARG	Sidechain
1	k6	226	HIS	Sidechain
1	k7	124	ILE	Peptide
1	k7	130	TYR	Sidechain
1	k7	132	ARG	Sidechain
1	k7	154	ARG	Sidechain
1	k7	173	ARG	Sidechain
1	k7	85	PRO	Peptide
1	k7	94	GLY	Peptide
1	k8	124	ILE	Peptide
1	k8	154	ARG	Sidechain
1	k8	162	ARG	Sidechain
1	k8	164	TYR	Sidechain
1	k8	18	ARG	Sidechain
1	k8	82	ARG	Sidechain
1	k8	89	GLY	Peptide
1	k9	120	HIS	Sidechain
1	k9	152	ASP	Peptide
1	k9	169	TYR	Sidechain
1	k9	18	ARG	Sidechain
1	k9	226	HIS	Sidechain
1	k9	82	ARG	Sidechain
1	k9	87	HIS	Sidechain
1	kA	105	ALA	Peptide
1	kA	121	ASN	Peptide
1	kA	132	ARG	Sidechain
1	kA	154	ARG	Sidechain
1	kB	100	ARG	Sidechain
1	kB	121	ASN	Peptide
1	kB	130	TYR	Sidechain
1	kB	162	ARG	Sidechain
1	kB	164	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	kB	173	ARG	Sidechain
1	kB	82	ARG	Sidechain
1	kB	92	GLU	Peptide
1	kC	121	ASN	Peptide
1	kC	130	TYR	Sidechain
1	kC	132	ARG	Sidechain
1	kC	18	ARG	Sidechain
1	kC	226	HIS	Sidechain
1	kC	62	HIS	Sidechain
1	kC	97	ARG	Sidechain
1	kD	121	ASN	Peptide
1	kD	124	ILE	Peptide
1	kD	132	ARG	Sidechain
1	kD	18	ARG	Sidechain
1	kD	229	ARG	Sidechain
1	kE	161	PHE	Sidechain
1	kE	167	ARG	Sidechain
1	kE	169	TYR	Sidechain
1	kE	226	HIS	Sidechain
1	kF	121	ASN	Peptide
1	kF	82	ARG	Sidechain
1	kG	100	ARG	Sidechain
1	kG	130	TYR	Sidechain
1	kG	132	ARG	Sidechain
1	kG	143	ARG	Sidechain
1	kG	145	TYR	Sidechain
1	kG	154	ARG	Sidechain
1	kG	173	ARG	Sidechain
1	kG	18	ARG	Sidechain
1	kH	146	SER	Peptide
1	kH	167	ARG	Sidechain
1	kH	168	PHE	Sidechain
1	kH	169	TYR	Sidechain
1	kH	18	ARG	Sidechain
1	kH	62	HIS	Sidechain
1	kH	82	ARG	Sidechain
1	kI	18	ARG	Sidechain
1	kJ	100	ARG	Sidechain
1	kJ	106	GLY	Peptide
1	kJ	130	TYR	Sidechain
1	kJ	145	TYR	Sidechain
1	kJ	162	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	kJ	167	ARG	Sidechain
1	kJ	169	TYR	Sidechain
1	kJ	171	THR	Mainchain
1	kJ	18	ARG	Sidechain
1	kJ	188	THR	Peptide
1	kJ	82	ARG	Sidechain
1	kK	100	ARG	Sidechain
1	kK	132	ARG	Sidechain
1	kK	167	ARG	Sidechain
1	kK	169	TYR	Sidechain
1	kK	82	ARG	Sidechain
1	kK	87	HIS	Sidechain
1	kL	16	SER	Peptide
1	kL	173	ARG	Sidechain
1	kL	4	GLN	Sidechain
1	kM	169	TYR	Sidechain
1	kM	173	ARG	Sidechain
1	kN	120	HIS	Sidechain
1	kO	12	HIS	Sidechain
1	kO	143	ARG	Sidechain
1	kO	62	HIS	Sidechain
1	kO	82	ARG	Sidechain
1	kP	100	ARG	Sidechain
1	kP	121	ASN	Peptide
1	kP	143	ARG	Sidechain
1	kP	145	TYR	Sidechain
1	kP	154	ARG	Sidechain
1	kP	169	TYR	Sidechain
1	kP	206	GLY	Peptide
1	kP	226	HIS	Sidechain
1	kP	94	GLY	Peptide
1	kQ	100	ARG	Sidechain
1	kQ	143	ARG	Sidechain
1	kQ	161	PHE	Sidechain
1	kQ	169	TYR	Sidechain
1	kQ	82	ARG	Sidechain
1	kR	120	HIS	Sidechain
1	kR	121	ASN	Peptide
1	kR	130	TYR	Sidechain
1	kR	143	ARG	Sidechain
1	kR	168	PHE	Sidechain
1	kR	226	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	kR	60	GLY	Peptide
1	kR	84	HIS	Sidechain
1	kS	124	ILE	Peptide
1	kS	154	ARG	Sidechain
1	kS	156	GLY	Peptide
1	kS	223	GLY	Peptide
1	kT	100	ARG	Sidechain
1	kT	143	ARG	Sidechain
1	kT	167	ARG	Sidechain
1	kT	169	TYR	Sidechain
1	kT	40	PHE	Sidechain
1	kU	100	ARG	Sidechain
1	kU	121	ASN	Peptide
1	kU	132	ARG	Sidechain
1	kU	145	TYR	Sidechain
1	kU	164	TYR	Sidechain
1	kU	167	ARG	Sidechain
1	kU	173	ARG	Sidechain
1	kU	212	GLU	Sidechain
1	kV	145	TYR	Sidechain
1	kV	167	ARG	Sidechain
1	kV	18	ARG	Sidechain
1	kV	84	HIS	Peptide
1	kV	97	ARG	Sidechain
1	kW	100	ARG	Sidechain
1	kW	123	PRO	Peptide
1	kW	132	ARG	Sidechain
1	kW	145	TYR	Sidechain
1	kW	162	ARG	Sidechain
1	kW	164	TYR	Sidechain
1	kW	173	ARG	Sidechain
1	kW	82	ARG	Sidechain
1	kX	120	HIS	Sidechain
1	kX	132	ARG	Sidechain
1	kX	169	TYR	Sidechain
1	kX	229	ARG	Sidechain
1	kX	82	ARG	Sidechain
1	kX	87	HIS	Sidechain
1	kY	120	HIS	Sidechain
1	kY	130	TYR	Sidechain
1	kY	132	ARG	Sidechain
1	kY	145	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	kY	32	PHE	Sidechain
1	kZ	145	TYR	Sidechain
1	kZ	164	TYR	Sidechain
1	kZ	169	TYR	Sidechain
1	kZ	32	PHE	Sidechain
1	kZ	84	HIS	Sidechain
1	ka	100	ARG	Sidechain
1	ka	143	ARG	Sidechain
1	ka	154	ARG	Sidechain
1	ka	162	ARG	Sidechain
1	ka	164	TYR	Sidechain
1	ka	167	ARG	Sidechain
1	ka	18	ARG	Sidechain
1	ka	191	VAL	Peptide
1	ka	82	ARG	Sidechain
1	kb	100	ARG	Sidechain
1	kb	121	ASN	Peptide
1	kb	132	ARG	Sidechain
1	kb	143	ARG	Sidechain
1	kb	162	ARG	Sidechain
1	kb	164	TYR	Sidechain
1	kb	169	TYR	Sidechain
1	kb	173	ARG	Sidechain
1	kb	40	PHE	Sidechain
1	kc	100	ARG	Sidechain
1	kc	124	ILE	Peptide
1	kc	145	TYR	Sidechain
1	kc	154	ARG	Sidechain
1	kc	162	ARG	Sidechain
1	kc	18	ARG	Sidechain
1	kc	97	ARG	Sidechain
1	kd	167	ARG	Sidechain
1	kd	169	TYR	Sidechain
1	kd	82	ARG	Sidechain
1	ke	124	ILE	Peptide
1	kf	121	ASN	Peptide
1	kf	40	PHE	Sidechain
1	kf	82	ARG	Sidechain
1	kg	143	ARG	Sidechain
1	kg	164	TYR	Sidechain
1	kh	100	ARG	Sidechain
1	kh	121	ASN	Peptide

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Mol	Chain	Res	Type	Group
1	kh	169	TYR	Sidechain
1	kh	179	GLN	Mainchain
1	kh	206	GLY	Peptide
1	kh	73	ILE	Mainchain
1	kh	84	HIS	Sidechain
1	ki	132	ARG	Sidechain
1	ki	143	ARG	Sidechain
1	ki	167	ARG	Sidechain
1	ki	229	ARG	Sidechain
1	ki	32	PHE	Sidechain
1	ki	65	ALA	Mainchain
1	ki	97	ARG	Sidechain
1	kj	143	ARG	Sidechain
1	kj	145	TYR	Sidechain
1	kj	164	TYR	Sidechain
1	kj	226	HIS	Sidechain
1	kk	143	ARG	Sidechain
1	kk	154	ARG	Sidechain
1	kk	162	ARG	Sidechain
1	kk	164	TYR	Sidechain
1	kk	169	TYR	Sidechain
1	kk	173	ARG	Sidechain
1	kl	130	TYR	Sidechain
1	kl	145	TYR	Sidechain
1	kl	162	ARG	Sidechain
1	km	100	ARG	Sidechain
1	km	132	ARG	Sidechain
1	km	169	TYR	Sidechain
1	km	25	LYS	Peptide
1	kn	100	ARG	Sidechain
1	kn	130	TYR	Sidechain
1	kn	145	TYR	Sidechain
1	kn	154	ARG	Sidechain
1	kn	229	ARG	Sidechain
1	kn	82	ARG	Sidechain
1	ko	132	ARG	Sidechain
1	ko	143	ARG	Sidechain
1	ko	162	ARG	Sidechain
1	ko	164	TYR	Sidechain
1	ko	169	TYR	Sidechain
1	ko	179	GLN	Mainchain
1	ko	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ko	32	PHE	Sidechain,Mainchain
1	ko	62	HIS	Sidechain
1	kp	120	HIS	Sidechain
1	kp	132	ARG	Sidechain
1	kp	143	ARG	Sidechain
1	kp	169	TYR	Sidechain
1	kp	173	ARG	Sidechain
1	kp	84	HIS	Sidechain
1	kq	143	ARG	Sidechain
1	kq	164	TYR	Sidechain
1	kq	167	ARG	Sidechain
1	kq	18	ARG	Sidechain
1	kr	132	ARG	Sidechain
1	kr	145	TYR	Sidechain
1	kr	154	ARG	Sidechain
1	kr	162	ARG	Sidechain
1	kr	167	ARG	Sidechain
1	kr	169	TYR	Sidechain
1	kr	87	HIS	Sidechain
1	ks	143	ARG	Sidechain
1	ks	154	ARG	Sidechain
1	ks	169	TYR	Sidechain
1	ks	18	ARG	Sidechain
1	kt	100	ARG	Sidechain
1	kt	143	ARG	Sidechain
1	kt	169	TYR	Sidechain
1	kt	18	ARG	Sidechain
1	kt	226	HIS	Sidechain
1	kt	40	PHE	Sidechain
1	ku	105	ALA	Peptide
1	ku	130	TYR	Sidechain
1	ku	154	ARG	Sidechain
1	ku	162	ARG	Sidechain
1	ku	82	ARG	Sidechain
1	ku	84	HIS	Sidechain
1	kv	121	ASN	Peptide
1	kv	142	VAL	Mainchain
1	kv	143	ARG	Sidechain
1	kv	145	TYR	Sidechain
1	kv	154	ARG	Sidechain
1	kv	162	ARG	Sidechain
1	kv	32	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	kv	87	HIS	Sidechain
1	kv	9	GLN	Peptide
1	kw	130	TYR	Sidechain
1	kw	143	ARG	Sidechain
1	kw	154	ARG	Sidechain
1	kw	97	ARG	Sidechain
1	kx	100	ARG	Sidechain
1	kx	143	ARG	Sidechain
1	kx	145	TYR	Sidechain
1	kx	161	PHE	Sidechain
1	kx	162	ARG	Sidechain
1	kx	167	ARG	Sidechain
1	kx	173	ARG	Sidechain
1	kx	18	ARG	Sidechain
1	kx	4	GLN	Mainchain
1	ky	130	TYR	Sidechain
1	ky	154	ARG	Sidechain
1	ky	161	PHE	Sidechain
1	ky	162	ARG	Sidechain
1	ky	169	TYR	Sidechain
1	ky	173	ARG	Sidechain
1	ky	32	PHE	Sidechain
1	ky	82	ARG	Sidechain
1	ky	87	HIS	Sidechain
1	kz	145	TYR	Sidechain
1	kz	162	ARG	Sidechain
1	kz	164	TYR	Sidechain
1	kz	82	ARG	Sidechain
1	kz	84	HIS	Sidechain
1	l	132	ARG	Sidechain
1	l	145	TYR	Sidechain
1	l	169	TYR	Sidechain
1	l	82	ARG	Sidechain
1	l	84	HIS	Sidechain
1	l0	130	TYR	Sidechain
1	l0	132	ARG	Sidechain
1	l0	145	TYR	Sidechain
1	l0	154	ARG	Sidechain
1	l0	164	TYR	Sidechain
1	l0	168	PHE	Sidechain
1	l0	173	ARG	Sidechain
1	l0	226	HIS	Sidechain

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Mol	Chain	Res	Type	Group
1	l0	62	HIS	Sidechain
1	l0	97	ARG	Sidechain
1	l1	130	TYR	Sidechain
1	l1	173	ARG	Sidechain
1	l1	229	ARG	Sidechain
1	l1	82	ARG	Sidechain
1	l2	130	TYR	Sidechain
1	l2	132	ARG	Sidechain
1	l2	143	ARG	Sidechain
1	l2	145	TYR	Sidechain
1	l2	162	ARG	Sidechain
1	l3	12	HIS	Sidechain
1	l3	124	ILE	Peptide
1	l3	143	ARG	Sidechain
1	l3	164	TYR	Sidechain
1	l3	40	PHE	Sidechain
1	l3	62	HIS	Sidechain
1	l4	100	ARG	Sidechain
1	l4	84	HIS	Sidechain
1	l4	87	HIS	Sidechain
1	l5	130	TYR	Sidechain
1	l5	162	ARG	Sidechain
1	l5	167	ARG	Sidechain
1	l5	18	ARG	Sidechain
1	l5	229	ARG	Sidechain
1	l6	34	PRO	Peptide
1	l6	97	ARG	Sidechain
1	l7	12	HIS	Sidechain
1	l7	121	ASN	Peptide
1	l7	130	TYR	Sidechain
1	l7	143	ARG	Sidechain
1	l7	168	PHE	Sidechain
1	l7	169	TYR	Sidechain
1	l7	18	ARG	Sidechain
1	l7	219	GLN	Peptide
1	l8	12	HIS	Sidechain
1	l8	130	TYR	Sidechain
1	l8	143	ARG	Sidechain
1	l8	164	TYR	Sidechain
1	l8	167	ARG	Sidechain
1	l8	169	TYR	Sidechain
1	l8	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	l8	82	ARG	Sidechain
1	l9	100	ARG	Sidechain
1	l9	121	ASN	Peptide
1	l9	73	ILE	Mainchain
1	l9	82	ARG	Sidechain
1	lA	120	HIS	Sidechain
1	lA	121	ASN	Peptide
1	lA	162	ARG	Sidechain
1	lA	169	TYR	Sidechain
1	lB	120	HIS	Sidechain
1	lB	121	ASN	Peptide
1	lB	132	ARG	Sidechain
1	lB	145	TYR	Sidechain
1	lB	169	TYR	Sidechain
1	lB	32	PHE	Sidechain
1	lB	97	ARG	Sidechain
1	lC	161	PHE	Sidechain
1	lC	164	TYR	Sidechain
1	lC	173	ARG	Sidechain
1	lC	182	LYS	Mainchain
1	lC	82	ARG	Sidechain
1	lD	100	ARG	Sidechain
1	lD	164	TYR	Sidechain
1	lD	173	ARG	Sidechain
1	lE	130	TYR	Sidechain
1	lE	167	ARG	Sidechain
1	lE	173	ARG	Sidechain
1	lE	82	ARG	Sidechain
1	lF	100	ARG	Sidechain
1	lF	145	TYR	Sidechain
1	lF	162	ARG	Sidechain
1	lF	167	ARG	Sidechain
1	lF	173	ARG	Sidechain
1	lF	230	VAL	Peptide
1	lF	32	PHE	Sidechain
1	lG	119	THR	Peptide
1	lG	143	ARG	Sidechain
1	lG	145	TYR	Sidechain
1	lG	169	TYR	Sidechain
1	lG	229	ARG	Sidechain
1	lG	40	PHE	Sidechain
1	lH	100	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	lH	109	SER	Peptide
1	lH	130	TYR	Sidechain
1	lH	132	ARG	Sidechain
1	lH	154	ARG	Sidechain
1	lH	155	GLN	Peptide
1	lH	167	ARG	Sidechain
1	lH	173	ARG	Sidechain
1	lH	229	ARG	Sidechain
1	lH	40	PHE	Sidechain
1	lH	94	GLY	Mainchain
1	lI	130	TYR	Sidechain
1	lI	154	ARG	Sidechain
1	lI	162	ARG	Sidechain
1	lI	167	ARG	Sidechain
1	lI	173	ARG	Sidechain
1	lJ	100	ARG	Sidechain
1	lJ	132	ARG	Sidechain
1	lJ	145	TYR	Sidechain
1	lJ	167	ARG	Sidechain
1	lK	164	TYR	Sidechain
1	lK	168	PHE	Sidechain
1	lK	18	ARG	Sidechain
1	lK	84	HIS	Sidechain
1	lK	97	ARG	Sidechain
1	lL	100	ARG	Sidechain
1	lL	130	TYR	Sidechain
1	lL	164	TYR	Sidechain
1	lL	61	GLY	Peptide
1	lL	97	ARG	Sidechain
1	lM	121	ASN	Peptide
1	lM	130	TYR	Sidechain
1	lM	143	ARG	Sidechain
1	lM	145	TYR	Sidechain
1	lM	168	PHE	Sidechain
1	lM	18	ARG	Sidechain
1	lM	226	HIS	Sidechain
1	lM	229	ARG	Sidechain
1	lN	12	HIS	Sidechain
1	lN	145	TYR	Sidechain
1	lN	154	ARG	Sidechain
1	lN	173	ARG	Sidechain
1	lN	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	lN	84	HIS	Sidechain
1	lO	12	HIS	Sidechain
1	lO	121	ASN	Peptide
1	lO	145	TYR	Sidechain
1	lO	162	ARG	Sidechain
1	lO	167	ARG	Sidechain
1	lO	173	ARG	Sidechain
1	lP	100	ARG	Sidechain
1	lP	120	HIS	Sidechain
1	lP	130	TYR	Sidechain
1	lP	167	ARG	Sidechain
1	lP	97	ARG	Sidechain
1	lQ	100	ARG	Sidechain
1	lQ	130	TYR	Sidechain
1	lQ	145	TYR	Sidechain
1	lQ	167	ARG	Sidechain
1	lQ	169	TYR	Sidechain
1	lQ	84	HIS	Sidechain
1	lR	143	ARG	Sidechain
1	lR	229	ARG	Sidechain
1	la	130	TYR	Sidechain
1	la	143	ARG	Sidechain
1	la	164	TYR	Sidechain
1	la	165	VAL	Mainchain
1	la	167	ARG	Sidechain
1	la	169	TYR	Sidechain
1	la	226	HIS	Sidechain
1	la	227	LYS	Peptide
1	la	40	PHE	Sidechain
1	lb	154	ARG	Sidechain
1	lb	162	ARG	Sidechain
1	lb	168	PHE	Sidechain
1	lb	169	TYR	Sidechain
1	lb	84	HIS	Sidechain
1	lc	145	TYR	Sidechain
1	lc	226	HIS	Sidechain
1	ld	167	ARG	Sidechain
1	ld	173	ARG	Sidechain
1	ld	82	ARG	Sidechain
1	ld	84	HIS	Sidechain
1	le	121	ASN	Peptide
1	le	124	ILE	Peptide

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Mol	Chain	Res	Type	Group
1	le	14	ALA	Peptide
1	le	161	PHE	Sidechain
1	le	169	TYR	Sidechain
1	lf	120	HIS	Sidechain
1	lf	132	ARG	Sidechain
1	lf	145	TYR	Sidechain
1	lf	169	TYR	Sidechain
1	lf	18	ARG	Sidechain
1	lf	33	SER	Peptide
1	lf	84	HIS	Sidechain,Peptide
1	lf	97	ARG	Sidechain
1	lf	99	PRO	Peptide
1	lg	169	TYR	Sidechain
1	lh	100	ARG	Sidechain
1	lh	124	ILE	Peptide
1	lh	162	ARG	Sidechain
1	lh	167	ARG	Sidechain
1	lh	97	ARG	Sidechain
1	li	143	ARG	Sidechain
1	li	161	PHE	Sidechain
1	li	164	TYR	Sidechain
1	li	173	ARG	Sidechain
1	li	18	ARG	Sidechain
1	li	229	ARG	Sidechain
1	lj	10	MET	Peptide
1	lj	120	HIS	Sidechain
1	lj	143	ARG	Sidechain
1	lj	162	ARG	Sidechain
1	lj	164	TYR	Sidechain
1	lj	167	ARG	Sidechain
1	lj	169	TYR	Sidechain
1	lk	167	ARG	Sidechain
1	lk	169	TYR	Sidechain
1	lk	173	ARG	Sidechain
1	lk	18	ARG	Sidechain
1	lk	30	LYS	Mainchain
1	ll	100	ARG	Sidechain
1	ll	164	TYR	Sidechain
1	ll	167	ARG	Sidechain
1	ll	169	TYR	Sidechain
1	ll	173	ARG	Sidechain
1	ll	18	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	ll	84	HIS	Sidechain
1	ll	89	GLY	Peptide
1	ll	99	PRO	Peptide
1	ln	145	TYR	Sidechain
1	ln	154	ARG	Sidechain
1	ln	169	TYR	Sidechain
1	ln	173	ARG	Sidechain
1	ln	229	ARG	Sidechain
1	lo	100	ARG	Sidechain
1	lo	130	TYR	Sidechain
1	lo	161	PHE	Sidechain
1	lo	162	ARG	Sidechain
1	lo	167	ARG	Sidechain
1	lo	18	ARG	Sidechain
1	lo	32	PHE	Sidechain
1	lo	82	ARG	Sidechain
1	lp	100	ARG	Sidechain
1	lp	121	ASN	Peptide
1	lp	143	ARG	Sidechain
1	lp	167	ARG	Sidechain
1	lp	173	ARG	Sidechain
1	lp	229	ARG	Sidechain
1	lp	40	PHE	Sidechain
1	lq	145	TYR	Sidechain
1	lq	154	ARG	Sidechain
1	lq	164	TYR	Sidechain
1	lq	167	ARG	Sidechain
1	lq	169	TYR	Sidechain
1	lq	32	PHE	Sidechain
1	lr	121	ASN	Peptide
1	lr	132	ARG	Sidechain
1	lr	143	ARG	Sidechain
1	lr	162	ARG	Sidechain
1	lr	164	TYR	Sidechain
1	lr	169	TYR	Sidechain
1	lr	173	ARG	Sidechain
1	lr	65	ALA	Mainchain
1	ls	100	ARG	Sidechain
1	ls	143	ARG	Sidechain
1	ls	164	TYR	Sidechain
1	ls	169	TYR	Sidechain
1	ls	229	ARG	Sidechain

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Mol	Chain	Res	Type	Group
1	lt	132	ARG	Sidechain
1	lt	160	PRO	Mainchain
1	lt	162	ARG	Sidechain
1	lt	164	TYR	Sidechain
1	lt	168	PHE	Sidechain
1	lt	82	ARG	Sidechain
1	lu	100	ARG	Sidechain
1	lu	143	ARG	Sidechain
1	lu	162	ARG	Sidechain
1	lu	169	TYR	Sidechain
1	lu	229	ARG	Sidechain
1	lv	121	ASN	Peptide
1	lv	132	ARG	Sidechain
1	lv	169	TYR	Sidechain
1	lv	173	ARG	Sidechain
1	lv	18	ARG	Sidechain
1	lv	41	SER	Mainchain
1	lw	100	ARG	Sidechain
1	lw	145	TYR	Sidechain
1	lx	130	TYR	Sidechain
1	lx	145	TYR	Sidechain
1	lx	154	ARG	Sidechain
1	lx	84	HIS	Sidechain
1	ly	130	TYR	Sidechain
1	ly	143	ARG	Sidechain
1	ly	167	ARG	Sidechain
1	ly	193	ASN	Peptide
1	ly	82	ARG	Sidechain
1	ly	84	HIS	Sidechain
1	lz	130	TYR	Sidechain
1	lz	132	ARG	Sidechain
1	lz	143	ARG	Sidechain
1	lz	162	ARG	Sidechain
1	lz	167	ARG	Mainchain
1	lz	18	ARG	Sidechain
1	lz	62	HIS	Sidechain
1	m	100	ARG	Sidechain
1	m	130	TYR	Sidechain
1	m	154	ARG	Sidechain
1	m	162	ARG	Sidechain
1	m	18	ARG	Sidechain
1	n	130	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	n	143	ARG	Sidechain
1	n	154	ARG	Sidechain
1	n	161	PHE	Sidechain
1	n	162	ARG	Sidechain
1	n	173	ARG	Sidechain
1	n	18	ARG	Sidechain
1	n	84	HIS	Sidechain
1	n	97	ARG	Sidechain
1	o	100	ARG	Sidechain
1	o	130	TYR	Sidechain
1	o	154	ARG	Sidechain
1	o	229	ARG	Sidechain
1	o	82	ARG	Sidechain
1	p	100	ARG	Sidechain
1	p	173	ARG	Sidechain
1	q	100	ARG	Sidechain
1	q	130	TYR	Sidechain
1	q	132	ARG	Sidechain
1	q	162	ARG	Sidechain
1	q	168	PHE	Sidechain
1	q	62	HIS	Sidechain
1	r	130	TYR	Sidechain
1	r	143	ARG	Sidechain
1	r	161	PHE	Sidechain
1	r	167	ARG	Sidechain
1	r	169	TYR	Sidechain
1	r	18	ARG	Sidechain
1	r	229	ARG	Sidechain
1	s	132	ARG	Sidechain
1	s	154	ARG	Sidechain
1	t	120	HIS	Sidechain
1	t	121	ASN	Peptide
1	t	124	ILE	Peptide
1	t	130	TYR	Sidechain
1	t	168	PHE	Mainchain
1	t	173	ARG	Sidechain
1	u	132	ARG	Sidechain
1	v	100	ARG	Sidechain
1	v	124	ILE	Peptide
1	v	145	TYR	Sidechain
1	v	169	TYR	Sidechain
1	v	29	GLU	Peptide

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Mol	Chain	Res	Type	Group
1	v	48	THR	Peptide
1	w	143	ARG	Sidechain
1	w	145	TYR	Sidechain
1	w	169	TYR	Sidechain
1	w	18	ARG	Sidechain
1	w	226	HIS	Sidechain
1	x	130	TYR	Sidechain
1	x	142	VAL	Mainchain
1	x	162	ARG	Sidechain
1	x	229	ARG	Sidechain
1	x	84	HIS	Sidechain
1	y	120	HIS	Sidechain
1	z	132	ARG	Sidechain
1	z	143	ARG	Sidechain
1	z	161	PHE	Sidechain
1	z	229	ARG	Sidechain
1	z	40	PHE	Sidechain
1	z	62	HIS	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	0	1800	0	1802	6	0
1	1	1800	0	1802	0	0
1	10	1800	0	1802	5	0
1	11	1800	0	1802	1	0
1	12	1800	0	1802	4	0
1	13	1800	0	1802	6	0
1	14	1800	0	1802	4	0
1	15	1800	0	1802	6	0
1	16	1800	0	1802	4	0
1	17	1800	0	1802	5	0
1	18	1800	0	1802	4	0
1	19	1800	0	1802	2	0
1	1A	1800	0	1802	7	0
1	1B	1800	0	1802	6	0
1	1C	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1D	1800	0	1802	2	0
1	1E	1800	0	1802	8	0
1	1F	1800	0	1802	6	0
1	1G	1800	0	1802	5	0
1	1H	1800	0	1802	3	0
1	1I	1800	0	1802	4	0
1	1J	1800	0	1802	7	0
1	1K	1800	0	1802	6	0
1	1L	1800	0	1802	2	0
1	1M	1800	0	1802	4	0
1	1N	1800	0	1802	2	0
1	1O	1800	0	1802	5	0
1	1P	1800	0	1802	1	0
1	1Q	1800	0	1802	1	0
1	1R	1800	0	1802	3	0
1	1S	1800	0	1802	3	0
1	1T	1800	0	1802	7	0
1	1U	1800	0	1802	6	0
1	1V	1800	0	1802	5	0
1	1W	1800	0	1802	3	0
1	1X	1800	0	1802	6	0
1	1Y	1800	0	1802	1	0
1	1Z	1800	0	1802	3	0
1	1a	1800	0	1802	5	0
1	1b	1800	0	1802	5	0
1	1c	1800	0	1802	4	0
1	1d	1800	0	1802	3	0
1	1e	1800	0	1802	2	0
1	1f	1800	0	1802	6	0
1	1g	1800	0	1802	3	0
1	1h	1800	0	1802	9	0
1	1i	1800	0	1802	5	0
1	1j	1800	0	1802	6	0
1	1k	1800	0	1802	3	0
1	1l	1800	0	1802	6	0
1	1m	1800	0	1802	8	0
1	1n	1800	0	1802	5	0
1	1o	1800	0	1802	5	0
1	1p	1800	0	1802	2	0
1	1q	1800	0	1802	2	0
1	1r	1800	0	1802	4	0
1	1s	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1t	1800	0	1802	1	0
1	1u	1800	0	1802	4	0
1	1v	1800	0	1802	3	0
1	1w	1800	0	1802	1	0
1	1x	1800	0	1802	2	0
1	1y	1800	0	1802	4	0
1	1z	1800	0	1802	5	0
1	2	1800	0	1802	7	0
1	20	1800	0	1802	4	0
1	21	1800	0	1802	7	0
1	22	1800	0	1802	3	0
1	23	1800	0	1802	2	0
1	24	1800	0	1802	5	0
1	25	1800	0	1802	2	0
1	26	1800	0	1802	3	0
1	27	1800	0	1802	1	0
1	28	1800	0	1802	5	0
1	29	1800	0	1802	1	0
1	2A	1800	0	1802	4	0
1	2B	1800	0	1802	7	0
1	2C	1800	0	1802	1	0
1	2D	1800	0	1802	2	0
1	2E	1800	0	1802	3	0
1	2F	1800	0	1802	1	0
1	2G	1800	0	1802	4	0
1	2H	1800	0	1802	2	0
1	2I	1800	0	1802	3	0
1	2J	1800	0	1802	3	0
1	2K	1800	0	1802	2	0
1	2L	1800	0	1802	4	0
1	2M	1800	0	1802	3	0
1	2N	1800	0	1802	5	0
1	2O	1800	0	1802	5	0
1	2P	1800	0	1802	4	0
1	2Q	1800	0	1802	1	0
1	2R	1800	0	1802	2	0
1	2S	1800	0	1802	7	0
1	2T	1800	0	1802	3	0
1	2U	1800	0	1802	4	0
1	2V	1800	0	1802	4	0
1	2W	1800	0	1802	4	0
1	2X	1800	0	1802	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	2Y	1800	0	1802	3	0
1	2Z	1800	0	1802	3	0
1	2a	1800	0	1802	2	0
1	2b	1800	0	1802	5	0
1	2c	1800	0	1802	5	0
1	2d	1800	0	1802	6	0
1	2e	1800	0	1802	5	0
1	2f	1800	0	1802	5	0
1	2g	1800	0	1802	7	0
1	2h	1800	0	1802	1	0
1	2i	1800	0	1802	5	0
1	2j	1800	0	1802	5	0
1	2k	1800	0	1802	4	0
1	2l	1800	0	1802	2	0
1	2m	1800	0	1802	8	0
1	2n	1800	0	1802	2	0
1	2o	1800	0	1802	4	0
1	2p	1800	0	1802	12	0
1	2q	1800	0	1802	4	0
1	2r	1800	0	1802	7	0
1	2s	1800	0	1802	4	0
1	2t	1800	0	1802	8	0
1	2u	1800	0	1802	4	0
1	2v	1800	0	1802	4	0
1	2w	1800	0	1802	2	0
1	2x	1800	0	1802	2	0
1	2y	1800	0	1802	2	0
1	2z	1800	0	1802	4	0
1	3	1800	0	1802	3	0
1	30	1800	0	1802	4	0
1	31	1800	0	1802	2	0
1	32	1800	0	1802	4	0
1	33	1800	0	1802	7	0
1	34	1800	0	1802	2	0
1	35	1800	0	1802	3	0
1	36	1800	0	1802	5	0
1	37	1800	0	1802	2	0
1	38	1800	0	1802	2	0
1	39	1800	0	1802	4	0
1	3A	1800	0	1802	1	0
1	3B	1800	0	1802	4	0
1	3C	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	3D	1800	0	1802	3	0
1	3E	1800	0	1802	1	0
1	3F	1800	0	1802	3	0
1	3G	1800	0	1802	3	0
1	3H	1800	0	1802	6	0
1	3I	1800	0	1802	0	0
1	3J	1800	0	1802	6	0
1	3K	1800	0	1802	6	0
1	3L	1800	0	1802	5	0
1	3M	1800	0	1802	5	0
1	3N	1800	0	1802	4	0
1	3O	1800	0	1802	8	0
1	3P	1800	0	1802	4	0
1	3Q	1800	0	1802	2	0
1	3R	1800	0	1802	6	0
1	3S	1800	0	1802	3	0
1	3T	1800	0	1802	0	0
1	3U	1800	0	1802	4	0
1	3V	1800	0	1802	4	0
1	3W	1800	0	1802	4	0
1	3X	1800	0	1802	8	0
1	3Y	1800	0	1802	1	0
1	3Z	1800	0	1802	1	0
1	3a	1800	0	1802	8	0
1	3b	1800	0	1802	4	0
1	3c	1800	0	1802	2	0
1	3d	1800	0	1802	2	0
1	3e	1800	0	1802	3	0
1	3f	1800	0	1802	3	0
1	3g	1800	0	1802	3	0
1	3h	1800	0	1802	3	0
1	3i	1800	0	1802	4	0
1	3j	1800	0	1802	4	0
1	3k	1800	0	1802	4	0
1	3l	1800	0	1802	3	0
1	3m	1800	0	1802	0	0
1	3n	1800	0	1802	1	0
1	3o	1800	0	1802	3	0
1	3p	1800	0	1802	7	0
1	3q	1800	0	1802	7	0
1	3r	1800	0	1802	3	0
1	3s	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	3t	1800	0	1802	3	0
1	3u	1800	0	1802	3	0
1	3v	1800	0	1802	3	0
1	3w	1800	0	1802	2	0
1	3x	1800	0	1802	2	0
1	3y	1800	0	1802	5	0
1	3z	1800	0	1802	6	0
1	4	1800	0	1802	4	0
1	40	1800	0	1802	0	0
1	41	1800	0	1802	6	0
1	42	1800	0	1802	6	0
1	43	1800	0	1802	6	0
1	44	1800	0	1802	4	0
1	45	1800	0	1802	5	0
1	46	1800	0	1802	2	0
1	47	1800	0	1802	2	0
1	48	1800	0	1802	4	0
1	49	1800	0	1802	5	0
1	4A	1800	0	1802	7	0
1	4B	1800	0	1802	8	0
1	4C	1800	0	1802	5	0
1	4D	1800	0	1802	3	0
1	4E	1800	0	1802	4	0
1	4F	1800	0	1802	10	0
1	4G	1800	0	1802	4	0
1	4H	1800	0	1802	5	0
1	4I	1800	0	1802	1	0
1	4J	1800	0	1802	5	0
1	4K	1800	0	1802	3	0
1	4L	1800	0	1802	6	0
1	4M	1800	0	1802	5	0
1	4N	1800	0	1802	0	0
1	4O	1800	0	1802	4	0
1	4P	1800	0	1802	1	0
1	4Q	1800	0	1802	2	0
1	4R	1800	0	1802	7	0
1	4S	1800	0	1802	4	0
1	4T	1800	0	1802	0	0
1	4U	1800	0	1802	2	0
1	4V	1800	0	1802	3	0
1	4W	1800	0	1802	3	0
1	4X	1800	0	1802	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	4Y	1800	0	1802	1	0
1	4Z	1800	0	1802	4	0
1	4a	1800	0	1802	4	0
1	4b	1800	0	1802	3	0
1	4c	1800	0	1802	7	0
1	4d	1800	0	1802	1	0
1	4e	1800	0	1802	1	0
1	4f	1800	0	1802	9	0
1	4g	1800	0	1802	1	0
1	4h	1800	0	1802	1	0
1	4i	1800	0	1802	4	0
1	4j	1800	0	1802	5	0
1	4k	1800	0	1802	7	0
1	4l	1800	0	1802	4	0
1	4m	1800	0	1802	3	0
1	4n	1800	0	1802	4	0
1	4o	1800	0	1802	6	0
1	4p	1800	0	1802	7	0
1	4q	1800	0	1802	4	0
1	4r	1800	0	1802	2	0
1	4s	1800	0	1802	4	0
1	4t	1800	0	1802	5	0
1	4u	1800	0	1802	3	0
1	4v	1800	0	1802	6	0
1	4w	1800	0	1802	5	0
1	4x	1800	0	1802	3	0
1	4y	1800	0	1802	4	0
1	4z	1800	0	1802	6	0
1	5	1800	0	1802	0	0
1	50	1800	0	1802	3	0
1	51	1800	0	1802	5	0
1	52	1800	0	1802	6	0
1	53	1800	0	1802	3	0
1	54	1800	0	1802	7	0
1	55	1800	0	1802	7	0
1	56	1800	0	1802	4	0
1	57	1800	0	1802	4	0
1	58	1800	0	1802	4	0
1	59	1800	0	1802	0	0
1	5A	1800	0	1802	0	0
1	5B	1800	0	1802	3	0
1	5C	1800	0	1802	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	5D	1800	0	1802	2	0
1	5E	1800	0	1802	2	0
1	5F	1800	0	1802	4	0
1	5G	1800	0	1802	3	0
1	5H	1800	0	1802	1	0
1	5I	1800	0	1802	3	0
1	5J	1800	0	1802	5	0
1	5K	1800	0	1802	5	0
1	5L	1800	0	1802	5	0
1	5M	1800	0	1802	3	0
1	5N	1800	0	1802	7	0
1	5O	1800	0	1802	4	0
1	5P	1800	0	1802	4	0
1	5Q	1800	0	1802	2	0
1	5R	1800	0	1802	3	0
1	5S	1800	0	1802	5	0
1	5T	1800	0	1802	7	0
1	5U	1800	0	1802	6	0
1	5V	1800	0	1802	3	0
1	5W	1800	0	1802	7	0
1	5X	1800	0	1802	2	0
1	5Y	1800	0	1802	2	0
1	5Z	1800	0	1802	3	0
1	5a	1800	0	1802	3	0
1	5b	1800	0	1802	7	0
1	5c	1800	0	1802	5	0
1	5d	1800	0	1802	5	0
1	5e	1800	0	1802	2	0
1	5f	1800	0	1802	3	0
1	5g	1800	0	1802	5	0
1	5h	1800	0	1802	4	0
1	5i	1800	0	1802	6	0
1	5j	1800	0	1802	5	0
1	5k	1800	0	1802	2	0
1	5l	1800	0	1802	2	0
1	5m	1800	0	1802	4	0
1	5n	1800	0	1802	4	0
1	5o	1800	0	1802	5	0
1	5p	1800	0	1802	5	0
1	5q	1800	0	1802	2	0
1	5r	1800	0	1802	3	0
1	5s	1800	0	1802	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	5t	1800	0	1802	3	0
1	5u	1800	0	1802	5	0
1	5v	1800	0	1802	0	0
1	5w	1800	0	1802	5	0
1	5x	1800	0	1802	5	0
1	5y	1800	0	1802	6	0
1	5z	1800	0	1802	5	0
1	6	1800	0	1802	6	0
1	60	1800	0	1802	2	0
1	61	1800	0	1802	2	0
1	62	1800	0	1802	2	0
1	63	1800	0	1802	5	0
1	64	1800	0	1802	5	0
1	65	1800	0	1802	3	0
1	66	1800	0	1802	6	0
1	67	1800	0	1802	5	0
1	68	1800	0	1802	3	0
1	69	1800	0	1802	4	0
1	6A	1800	0	1802	3	0
1	6B	1800	0	1802	4	0
1	6C	1800	0	1802	2	0
1	6D	1800	0	1802	3	0
1	6E	1800	0	1802	3	0
1	6F	1800	0	1802	2	0
1	6G	1800	0	1802	4	0
1	6H	1800	0	1802	6	0
1	6I	1800	0	1802	4	0
1	6J	1800	0	1802	3	0
1	6K	1800	0	1802	7	0
1	6L	1800	0	1802	5	0
1	6M	1800	0	1802	7	0
1	6N	1800	0	1802	5	0
1	6O	1800	0	1802	3	0
1	6P	1800	0	1802	2	0
1	6Q	1800	0	1802	3	0
1	6R	1800	0	1802	4	0
1	6S	1800	0	1802	2	0
1	6T	1800	0	1802	5	0
1	6U	1800	0	1802	2	0
1	6V	1800	0	1802	4	0
1	6W	1800	0	1802	4	0
1	6X	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	6Y	1800	0	1802	4	0
1	6Z	1800	0	1802	0	0
1	6a	1800	0	1802	1	0
1	6b	1800	0	1802	5	0
1	6c	1800	0	1802	6	0
1	6d	1800	0	1802	3	0
1	6e	1800	0	1802	6	0
1	6f	1800	0	1802	2	0
1	6g	1800	0	1802	3	0
1	6h	1800	0	1802	3	0
1	6i	1800	0	1802	6	0
1	6j	1800	0	1802	7	0
1	6k	1800	0	1802	5	0
1	6l	1800	0	1802	4	0
1	6m	1800	0	1802	5	0
1	6n	1800	0	1802	2	0
1	6o	1800	0	1802	0	0
1	6p	1800	0	1802	3	0
1	6q	1800	0	1802	3	0
1	6r	1800	0	1802	5	0
1	6s	1800	0	1802	6	0
1	6t	1800	0	1802	7	0
1	6u	1800	0	1802	7	0
1	6v	1800	0	1802	5	0
1	6w	1800	0	1802	5	0
1	6x	1800	0	1802	3	0
1	6y	1800	0	1802	4	0
1	6z	1800	0	1802	2	0
1	7	1800	0	1802	3	0
1	70	1800	0	1802	3	0
1	71	1800	0	1802	1	0
1	72	1800	0	1802	5	0
1	73	1800	0	1802	5	0
1	74	1800	0	1802	6	0
1	75	1800	0	1802	7	0
1	76	1800	0	1802	1	0
1	77	1800	0	1802	4	0
1	78	1800	0	1802	8	0
1	79	1800	0	1802	2	0
1	7A	1800	0	1802	0	0
1	7B	1800	0	1802	4	0
1	7C	1800	0	1802	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7D	1800	0	1802	1	0
1	7E	1800	0	1802	6	0
1	7F	1800	0	1802	5	0
1	7G	1800	0	1802	3	0
1	7H	1800	0	1802	4	0
1	7I	1800	0	1802	3	0
1	7J	1800	0	1802	2	0
1	7K	1800	0	1802	4	0
1	7L	1800	0	1802	6	0
1	7M	1800	0	1802	5	0
1	7N	1800	0	1802	2	0
1	7O	1800	0	1802	2	0
1	7P	1800	0	1802	3	0
1	7Q	1800	0	1802	6	0
1	7R	1800	0	1802	3	0
1	7S	1800	0	1802	2	0
1	7T	1800	0	1802	8	0
1	7U	1800	0	1802	3	0
1	7V	1800	0	1802	3	0
1	7W	1800	0	1802	3	0
1	7X	1800	0	1802	2	0
1	7Y	1800	0	1802	3	0
1	7Z	1800	0	1802	1	0
1	7a	1800	0	1802	7	0
1	7b	1800	0	1802	2	0
1	7c	1800	0	1802	1	0
1	7d	1800	0	1802	3	0
1	7e	1800	0	1802	2	0
1	7f	1800	0	1802	5	0
1	7g	1800	0	1802	3	0
1	7h	1800	0	1802	5	0
1	7i	1800	0	1802	3	0
1	7j	1800	0	1802	4	0
1	7k	1800	0	1802	3	0
1	7l	1800	0	1802	4	0
1	7m	1800	0	1802	7	0
1	7n	1800	0	1802	2	0
1	7o	1800	0	1802	1	0
1	7p	1800	0	1802	5	0
1	7q	1800	0	1802	5	0
1	7r	1800	0	1802	4	0
1	7s	1800	0	1802	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	7t	1800	0	1802	1	0
1	7u	1800	0	1802	2	0
1	7v	1800	0	1802	5	0
1	7w	1800	0	1802	4	0
1	7x	1800	0	1802	3	0
1	7y	1800	0	1802	2	0
1	7z	1800	0	1802	1	0
1	8	1800	0	1802	3	0
1	80	1800	0	1802	1	0
1	81	1800	0	1802	5	0
1	82	1800	0	1802	4	0
1	83	1800	0	1802	1	0
1	84	1800	0	1802	3	0
1	85	1800	0	1802	6	0
1	86	1800	0	1802	7	0
1	87	1800	0	1802	2	0
1	88	1800	0	1802	4	0
1	89	1800	0	1802	7	0
1	8A	1800	0	1802	5	0
1	8B	1800	0	1802	4	0
1	8C	1800	0	1802	5	0
1	8D	1800	0	1802	2	0
1	8E	1800	0	1802	4	0
1	8F	1800	0	1802	1	0
1	8G	1800	0	1802	2	0
1	8H	1800	0	1802	4	0
1	8I	1800	0	1802	3	0
1	8J	1800	0	1802	6	0
1	8K	1800	0	1802	6	0
1	8L	1800	0	1802	5	0
1	8M	1800	0	1802	2	0
1	8N	1800	0	1802	8	0
1	8O	1800	0	1802	3	0
1	8P	1800	0	1802	2	0
1	8Q	1800	0	1802	2	0
1	8R	1800	0	1802	3	0
1	8S	1800	0	1802	6	0
1	8T	1800	0	1802	6	0
1	8U	1800	0	1802	4	0
1	8V	1800	0	1802	2	0
1	8W	1800	0	1802	4	0
1	8X	1800	0	1802	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	8Y	1800	0	1802	3	0
1	8Z	1800	0	1802	5	0
1	8a	1800	0	1802	3	0
1	8b	1800	0	1802	7	0
1	8c	1800	0	1802	4	0
1	8d	1800	0	1802	1	0
1	8e	1800	0	1802	5	0
1	8f	1800	0	1802	6	0
1	8g	1800	0	1802	5	0
1	8h	1800	0	1802	5	0
1	8i	1800	0	1802	7	0
1	8j	1800	0	1802	3	0
1	8k	1800	0	1802	3	0
1	8l	1800	0	1802	6	0
1	8m	1800	0	1802	4	0
1	8n	1800	0	1802	6	0
1	8o	1800	0	1802	2	0
1	8p	1800	0	1802	4	0
1	8q	1800	0	1802	4	0
1	8r	1800	0	1802	5	0
1	8s	1800	0	1802	1	0
1	8t	1800	0	1802	1	0
1	8u	1800	0	1802	5	0
1	8v	1800	0	1802	9	0
1	8w	1800	0	1802	8	0
1	8x	1800	0	1802	6	0
1	8y	1800	0	1802	4	0
1	8z	1800	0	1802	3	0
1	9	1800	0	1802	6	0
1	90	1800	0	1802	5	0
1	91	1800	0	1802	9	0
1	92	1800	0	1802	3	0
1	93	1800	0	1802	5	0
1	94	1800	0	1802	4	0
1	95	1800	0	1802	3	0
1	96	1800	0	1802	3	0
1	97	1800	0	1802	4	0
1	98	1800	0	1802	3	0
1	99	1800	0	1802	3	0
1	9A	1800	0	1802	2	0
1	9B	1800	0	1802	4	0
1	9C	1800	0	1802	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	9D	1800	0	1802	2	0
1	9E	1800	0	1802	2	0
1	9F	1800	0	1802	4	0
1	9G	1800	0	1802	0	0
1	9H	1800	0	1802	2	0
1	9I	1800	0	1802	2	0
1	9J	1800	0	1802	6	0
1	9K	1800	0	1802	2	0
1	9L	1800	0	1802	5	0
1	9M	1800	0	1802	4	0
1	9N	1800	0	1802	2	0
1	9O	1800	0	1802	4	0
1	9P	1800	0	1802	2	0
1	9Q	1800	0	1802	2	0
1	9R	1800	0	1802	4	0
1	9S	1800	0	1802	2	0
1	9T	1800	0	1802	6	0
1	9U	1800	0	1802	3	0
1	9V	1800	0	1802	5	0
1	9W	1800	0	1802	4	0
1	9X	1800	0	1802	2	0
1	9Y	1800	0	1802	7	0
1	9Z	1800	0	1802	5	0
1	9a	1800	0	1802	5	0
1	9b	1800	0	1802	3	0
1	9c	1800	0	1802	2	0
1	9d	1800	0	1802	5	0
1	9e	1800	0	1802	1	0
1	9f	1800	0	1802	2	0
1	9g	1800	0	1802	2	0
1	9h	1800	0	1802	5	0
1	9i	1800	0	1802	2	0
1	9j	1800	0	1802	3	0
1	9k	1800	0	1802	4	0
1	9l	1800	0	1802	3	0
1	9m	1800	0	1802	4	0
1	9n	1800	0	1802	3	0
1	9o	1800	0	1802	7	0
1	9p	1800	0	1802	3	0
1	9q	1800	0	1802	8	0
1	9r	1800	0	1802	7	0
1	9s	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	9t	1800	0	1802	5	0
1	9u	1800	0	1802	2	0
1	9v	1800	0	1802	3	0
1	9w	1800	0	1802	1	0
1	9x	1800	0	1802	5	0
1	9y	1800	0	1802	3	0
1	9z	1800	0	1802	4	0
1	A	1800	0	1802	3	0
1	B	1800	0	1802	3	0
1	C	1800	0	1802	6	0
1	D	1800	0	1802	1	0
1	E	1800	0	1802	3	0
1	F	1800	0	1802	5	0
1	G	1800	0	1802	7	0
1	H	1800	0	1802	2	0
1	I	1800	0	1802	2	0
1	J	1800	0	1802	5	0
1	K	1800	0	1802	3	0
1	L	1800	0	1802	3	0
1	M	1800	0	1802	6	0
1	N	1800	0	1802	8	0
1	O	1800	0	1802	11	0
1	P	1800	0	1802	4	0
1	Q	1800	0	1802	6	0
1	R	1800	0	1802	4	0
1	S	1800	0	1802	5	0
1	T	1800	0	1802	2	0
1	U	1800	0	1802	4	0
1	V	1800	0	1802	6	0
1	W	1800	0	1802	6	0
1	X	1800	0	1802	3	0
1	Y	1800	0	1802	5	0
1	Z	1800	0	1802	4	0
1	a	1800	0	1802	4	0
1	a0	1800	0	1802	6	0
1	a1	1800	0	1802	3	0
1	a2	1800	0	1802	7	0
1	a3	1800	0	1802	3	0
1	a4	1800	0	1802	3	0
1	a5	1800	0	1802	5	0
1	a6	1800	0	1802	6	0
1	a7	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	a8	1800	0	1802	5	0
1	a9	1800	0	1802	10	0
1	aA	1800	0	1802	4	0
1	aB	1800	0	1802	5	0
1	aC	1800	0	1802	1	0
1	aD	1800	0	1802	2	0
1	aE	1800	0	1802	6	0
1	aF	1800	0	1802	2	0
1	aG	1800	0	1802	2	0
1	aH	1800	0	1802	7	0
1	aI	1800	0	1802	2	0
1	aJ	1800	0	1802	3	0
1	aK	1800	0	1802	4	0
1	aL	1800	0	1802	4	0
1	aM	1800	0	1802	2	0
1	aN	1800	0	1802	10	0
1	aO	1800	0	1802	6	0
1	aP	1800	0	1802	5	0
1	aQ	1800	0	1802	5	0
1	aR	1800	0	1802	2	0
1	aS	1800	0	1802	3	0
1	aT	1800	0	1802	4	0
1	aU	1800	0	1802	7	0
1	aV	1800	0	1802	2	0
1	aW	1800	0	1802	3	0
1	aX	1800	0	1802	3	0
1	aY	1800	0	1802	6	0
1	aZ	1800	0	1802	2	0
1	aa	1800	0	1802	1	0
1	ab	1800	0	1802	1	0
1	ac	1800	0	1802	4	0
1	ad	1800	0	1802	2	0
1	ae	1800	0	1802	4	0
1	af	1800	0	1802	3	0
1	ag	1800	0	1802	3	0
1	ah	1800	0	1802	3	0
1	ai	1800	0	1802	5	0
1	aj	1800	0	1802	2	0
1	ak	1800	0	1802	2	0
1	al	1800	0	1802	6	0
1	am	1800	0	1802	0	0
1	an	1800	0	1802	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ao	1800	0	1802	2	0
1	ap	1800	0	1802	5	0
1	aq	1800	0	1802	3	0
1	ar	1800	0	1802	5	0
1	as	1800	0	1802	5	0
1	at	1800	0	1802	6	0
1	au	1800	0	1802	5	0
1	av	1800	0	1802	6	0
1	aw	1800	0	1802	5	0
1	ax	1800	0	1802	5	0
1	ay	1800	0	1802	4	0
1	az	1800	0	1802	2	0
1	b	1800	0	1802	2	0
1	b0	1800	0	1802	9	0
1	b1	1800	0	1802	4	0
1	b2	1800	0	1802	10	0
1	b3	1800	0	1802	2	0
1	b4	1800	0	1802	1	0
1	b5	1800	0	1802	5	0
1	b6	1800	0	1802	2	0
1	b7	1800	0	1802	1	0
1	b8	1800	0	1802	3	0
1	b9	1800	0	1802	1	0
1	bA	1800	0	1802	4	0
1	bB	1800	0	1802	11	0
1	bC	1800	0	1802	8	0
1	bD	1800	0	1802	7	0
1	bE	1800	0	1802	3	0
1	bF	1800	0	1802	0	0
1	bG	1800	0	1802	1	0
1	bH	1800	0	1802	2	0
1	bI	1800	0	1802	6	0
1	bJ	1800	0	1802	4	0
1	bK	1800	0	1802	6	0
1	bL	1800	0	1802	8	0
1	bM	1800	0	1802	4	0
1	bN	1800	0	1802	4	0
1	bO	1800	0	1802	5	0
1	bP	1800	0	1802	1	0
1	bQ	1800	0	1802	3	0
1	bR	1800	0	1802	1	0
1	bS	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	bT	1800	0	1802	2	0
1	bU	1800	0	1802	2	0
1	bV	1800	0	1802	3	0
1	bW	1800	0	1802	1	0
1	bX	1800	0	1802	6	0
1	bY	1800	0	1802	2	0
1	bZ	1800	0	1802	1	0
1	ba	1800	0	1802	7	0
1	bb	1800	0	1802	3	0
1	bc	1800	0	1802	5	0
1	bd	1800	0	1802	4	0
1	be	1800	0	1802	2	0
1	bf	1800	0	1802	6	0
1	bg	1800	0	1802	8	0
1	bh	1800	0	1802	2	0
1	bi	1800	0	1802	2	0
1	bj	1800	0	1802	1	0
1	bk	1800	0	1802	4	0
1	bl	1800	0	1802	5	0
1	bm	1800	0	1802	9	0
1	bn	1800	0	1802	8	0
1	bo	1800	0	1802	4	0
1	bp	1800	0	1802	4	0
1	bq	1800	0	1802	4	0
1	br	1800	0	1802	3	0
1	bs	1800	0	1802	4	0
1	bt	1800	0	1802	5	0
1	bu	1800	0	1802	5	0
1	bv	1800	0	1802	5	0
1	bw	1800	0	1802	8	0
1	bx	1800	0	1802	6	0
1	by	1800	0	1802	5	0
1	bz	1800	0	1802	6	0
1	c	1800	0	1802	3	0
1	c0	1800	0	1802	4	0
1	c1	1800	0	1802	5	0
1	c2	1800	0	1802	5	0
1	c3	1800	0	1802	3	0
1	c4	1800	0	1802	4	0
1	c5	1800	0	1802	3	0
1	c6	1800	0	1802	4	0
1	c7	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	c8	1800	0	1802	5	0
1	c9	1800	0	1802	3	0
1	cA	1800	0	1802	3	0
1	cB	1800	0	1802	8	0
1	cC	1800	0	1802	10	0
1	cD	1800	0	1802	4	0
1	cE	1800	0	1802	1	0
1	cF	1800	0	1802	5	0
1	cG	1800	0	1802	5	0
1	cH	1800	0	1802	4	0
1	cI	1800	0	1802	8	0
1	cJ	1800	0	1802	4	0
1	cK	1800	0	1802	7	0
1	cL	1800	0	1802	4	0
1	cM	1800	0	1802	5	0
1	cN	1800	0	1802	6	0
1	cO	1800	0	1802	1	0
1	cP	1800	0	1802	0	0
1	cQ	1800	0	1802	2	0
1	cR	1800	0	1802	3	0
1	cS	1800	0	1802	5	0
1	cT	1800	0	1802	7	0
1	cU	1800	0	1802	4	0
1	cV	1800	0	1802	2	0
1	cW	1800	0	1802	0	0
1	cX	1800	0	1802	7	0
1	cY	1800	0	1802	6	0
1	cZ	1800	0	1802	2	0
1	ca	1800	0	1802	8	0
1	cb	1800	0	1802	5	0
1	cc	1800	0	1802	3	0
1	cd	1800	0	1802	6	0
1	ce	1800	0	1802	2	0
1	cf	1800	0	1802	5	0
1	cg	1800	0	1802	2	0
1	ch	1800	0	1802	5	0
1	ci	1800	0	1802	4	0
1	cj	1800	0	1802	2	0
1	ck	1800	0	1802	2	0
1	cl	1800	0	1802	2	0
1	cm	1800	0	1802	0	0
1	cn	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	co	1800	0	1802	1	0
1	cp	1800	0	1802	4	0
1	cq	1800	0	1802	7	0
1	cr	1800	0	1802	5	0
1	cs	1800	0	1802	3	0
1	ct	1800	0	1802	5	0
1	cu	1800	0	1802	5	0
1	cv	1800	0	1802	3	0
1	cw	1800	0	1802	4	0
1	cx	1800	0	1802	5	0
1	cy	1800	0	1802	6	0
1	cz	1800	0	1802	4	0
1	d	1800	0	1802	3	0
1	d0	1800	0	1802	2	0
1	d1	1800	0	1802	5	0
1	d2	1800	0	1802	3	0
1	d3	1800	0	1802	3	0
1	d4	1800	0	1802	2	0
1	d5	1800	0	1802	3	0
1	d6	1800	0	1802	5	0
1	d7	1800	0	1802	3	0
1	d8	1800	0	1802	7	0
1	d9	1800	0	1802	3	0
1	dA	1800	0	1802	6	0
1	dB	1800	0	1802	6	0
1	dC	1800	0	1802	5	0
1	dD	1800	0	1802	1	0
1	dE	1800	0	1802	2	0
1	dF	1800	0	1802	3	0
1	dG	1800	0	1802	1	0
1	dH	1800	0	1802	2	0
1	dI	1800	0	1802	3	0
1	dJ	1800	0	1802	3	0
1	dK	1800	0	1802	2	0
1	dL	1800	0	1802	2	0
1	dM	1800	0	1802	3	0
1	dN	1800	0	1802	3	0
1	dO	1800	0	1802	4	0
1	dP	1800	0	1802	1	0
1	dQ	1800	0	1802	2	0
1	dR	1800	0	1802	2	0
1	dS	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	dT	1800	0	1802	4	0
1	dU	1800	0	1802	4	0
1	dV	1800	0	1802	4	0
1	dW	1800	0	1802	2	0
1	dX	1800	0	1802	4	0
1	dY	1800	0	1802	7	0
1	dZ	1800	0	1802	1	0
1	da	1800	0	1802	1	0
1	db	1800	0	1802	1	0
1	dc	1800	0	1802	5	0
1	dd	1800	0	1802	4	0
1	de	1800	0	1802	4	0
1	df	1800	0	1802	3	0
1	dg	1800	0	1802	2	0
1	dh	1800	0	1802	4	0
1	di	1800	0	1802	2	0
1	dj	1800	0	1802	8	0
1	dk	1800	0	1802	4	0
1	dl	1800	0	1802	4	0
1	dm	1800	0	1802	2	0
1	dn	1800	0	1802	2	0
1	do	1800	0	1802	2	0
1	dp	1800	0	1802	1	0
1	dq	1800	0	1802	1	0
1	dr	1800	0	1802	0	0
1	ds	1800	0	1802	0	0
1	dt	1800	0	1802	6	0
1	du	1800	0	1802	3	0
1	dv	1800	0	1802	3	0
1	dw	1800	0	1802	6	0
1	dx	1800	0	1802	5	0
1	dy	1800	0	1802	6	0
1	dz	1800	0	1802	6	0
1	e	1800	0	1802	4	0
1	e0	1800	0	1802	4	0
1	e1	1800	0	1802	2	0
1	e2	1800	0	1802	1	0
1	e3	1800	0	1802	5	0
1	e4	1800	0	1802	3	0
1	e5	1800	0	1802	2	0
1	e6	1800	0	1802	3	0
1	e7	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	e8	1800	0	1802	2	0
1	e9	1800	0	1802	3	0
1	eA	1800	0	1802	3	0
1	eB	1800	0	1802	7	0
1	eC	1800	0	1802	7	0
1	eD	1800	0	1802	1	0
1	eE	1800	0	1802	4	0
1	eF	1800	0	1802	4	0
1	eG	1800	0	1802	4	0
1	eH	1800	0	1802	2	0
1	eI	1800	0	1802	4	0
1	eJ	1800	0	1802	6	0
1	eK	1800	0	1802	9	0
1	eL	1800	0	1802	5	0
1	eM	1800	0	1802	5	0
1	eN	1800	0	1802	6	0
1	eO	1800	0	1802	5	0
1	eP	1800	0	1802	3	0
1	eQ	1800	0	1802	7	0
1	eR	1800	0	1802	2	0
1	eS	1800	0	1802	5	0
1	eT	1800	0	1802	6	0
1	eU	1800	0	1802	2	0
1	eV	1800	0	1802	7	0
1	eW	1800	0	1802	4	0
1	eX	1800	0	1802	1	0
1	eY	1800	0	1802	2	0
1	eZ	1800	0	1802	5	0
1	ea	1800	0	1802	5	0
1	eb	1800	0	1802	4	0
1	ec	1800	0	1802	3	0
1	ed	1800	0	1802	2	0
1	ee	1800	0	1802	2	0
1	ef	1800	0	1802	4	0
1	eg	1800	0	1802	1	0
1	eh	1800	0	1802	3	0
1	ei	1800	0	1802	2	0
1	ej	1800	0	1802	3	0
1	ek	1800	0	1802	4	0
1	el	1800	0	1802	5	0
1	em	1800	0	1802	5	0
1	en	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	eo	1800	0	1802	8	0
1	ep	1800	0	1802	6	0
1	eq	1800	0	1802	3	0
1	er	1800	0	1802	3	0
1	es	1800	0	1802	1	0
1	et	1800	0	1802	7	0
1	eu	1800	0	1802	6	0
1	ev	1800	0	1802	3	0
1	ew	1800	0	1802	8	0
1	ex	1800	0	1802	3	0
1	ey	1800	0	1802	3	0
1	ez	1800	0	1802	4	0
1	f	1800	0	1802	3	0
1	f0	1800	0	1802	2	0
1	f1	1800	0	1802	4	0
1	f2	1800	0	1802	4	0
1	f3	1800	0	1802	4	0
1	f4	1800	0	1802	1	0
1	f5	1800	0	1802	3	0
1	f6	1800	0	1802	3	0
1	f7	1800	0	1802	8	0
1	f8	1800	0	1802	5	0
1	f9	1800	0	1802	3	0
1	fA	1800	0	1802	6	0
1	fB	1800	0	1802	3	0
1	fC	1800	0	1802	4	0
1	fD	1800	0	1802	2	0
1	fE	1800	0	1802	5	0
1	fF	1800	0	1802	6	0
1	fG	1800	0	1802	1	0
1	fH	1800	0	1802	2	0
1	fI	1800	0	1802	3	0
1	fJ	1800	0	1802	3	0
1	fK	1800	0	1802	2	0
1	fL	1800	0	1802	8	0
1	fM	1800	0	1802	2	0
1	fN	1800	0	1802	3	0
1	fO	1800	0	1802	4	0
1	fP	1800	0	1802	3	0
1	fQ	1800	0	1802	2	0
1	fR	1800	0	1802	2	0
1	fS	1800	0	1802	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	fT	1800	0	1802	5	0
1	fU	1800	0	1802	7	0
1	fV	1800	0	1802	3	0
1	fW	1800	0	1802	5	0
1	fX	1800	0	1802	3	0
1	fY	1800	0	1802	2	0
1	fZ	1800	0	1802	3	0
1	fa	1800	0	1802	2	0
1	fb	1800	0	1802	4	0
1	fc	1800	0	1802	7	0
1	fd	1800	0	1802	4	0
1	fe	1800	0	1802	0	0
1	ff	1800	0	1802	0	0
1	fg	1800	0	1802	3	0
1	fh	1800	0	1802	2	0
1	fi	1800	0	1802	3	0
1	fj	1800	0	1802	6	0
1	fk	1800	0	1802	5	0
1	fl	1800	0	1802	4	0
1	fm	1800	0	1802	5	0
1	fn	1800	0	1802	1	0
1	fo	1800	0	1802	3	0
1	fp	1800	0	1802	2	0
1	fq	1800	0	1802	5	0
1	fr	1800	0	1802	3	0
1	fs	1800	0	1802	1	0
1	ft	1800	0	1802	5	0
1	fu	1800	0	1802	6	0
1	fv	1800	0	1802	2	0
1	fw	1800	0	1802	3	0
1	fx	1800	0	1802	8	0
1	fy	1800	0	1802	3	0
1	fz	1800	0	1802	3	0
1	g	1800	0	1802	3	0
1	g0	1800	0	1802	3	0
1	g1	1800	0	1802	7	0
1	g2	1800	0	1802	8	0
1	g3	1800	0	1802	6	0
1	g4	1800	0	1802	1	0
1	g5	1800	0	1802	4	0
1	g6	1800	0	1802	5	0
1	g7	1800	0	1802	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	g8	1800	0	1802	3	0
1	g9	1800	0	1802	0	0
1	gA	1800	0	1802	1	0
1	gB	1800	0	1802	2	0
1	gC	1800	0	1802	4	0
1	gD	1800	0	1802	2	0
1	gE	1800	0	1802	7	0
1	gF	1800	0	1802	2	0
1	gG	1800	0	1802	3	0
1	gH	1800	0	1802	3	0
1	gI	1800	0	1802	2	0
1	gJ	1800	0	1802	3	0
1	gK	1800	0	1802	5	0
1	gL	1800	0	1802	3	0
1	gM	1800	0	1802	3	0
1	gN	1800	0	1802	2	0
1	gO	1800	0	1802	2	0
1	gP	1800	0	1802	7	0
1	gQ	1800	0	1802	2	0
1	gR	1800	0	1802	4	0
1	gS	1800	0	1802	5	0
1	gT	1800	0	1802	4	0
1	gU	1800	0	1802	4	0
1	gV	1800	0	1802	4	0
1	gW	1800	0	1802	9	0
1	gX	1800	0	1802	6	0
1	gY	1800	0	1802	3	0
1	gZ	1800	0	1802	2	0
1	ga	1800	0	1802	8	0
1	gb	1800	0	1802	1	0
1	gc	1800	0	1802	3	0
1	gd	1800	0	1802	4	0
1	ge	1800	0	1802	4	0
1	gf	1800	0	1802	3	0
1	gg	1800	0	1802	4	0
1	gh	1800	0	1802	2	0
1	gi	1800	0	1802	2	0
1	gj	1800	0	1802	3	0
1	gk	1800	0	1802	2	0
1	gl	1800	0	1802	5	0
1	gm	1800	0	1802	4	0
1	gn	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	go	1800	0	1802	5	0
1	gp	1800	0	1802	6	0
1	gq	1800	0	1802	2	0
1	gr	1800	0	1802	0	0
1	gs	1800	0	1802	2	0
1	gt	1800	0	1802	3	0
1	gu	1800	0	1802	3	0
1	gv	1800	0	1802	3	0
1	gw	1800	0	1802	6	0
1	gx	1800	0	1802	10	0
1	gy	1800	0	1802	3	0
1	gz	1800	0	1802	3	0
1	h	1800	0	1802	5	0
1	h0	1800	0	1802	5	0
1	h1	1800	0	1802	9	0
1	h2	1800	0	1802	2	0
1	h3	1800	0	1802	9	0
1	h4	1800	0	1802	3	0
1	h5	1800	0	1802	6	0
1	h6	1800	0	1802	5	0
1	h7	1800	0	1802	1	0
1	h8	1800	0	1802	3	0
1	h9	1800	0	1802	5	0
1	hA	1800	0	1802	4	0
1	hB	1800	0	1802	4	0
1	hC	1800	0	1802	8	0
1	hD	1800	0	1802	5	0
1	hE	1800	0	1802	8	0
1	hF	1800	0	1802	3	0
1	hG	1800	0	1802	5	0
1	hH	1800	0	1802	3	0
1	hI	1800	0	1802	3	0
1	hJ	1800	0	1802	0	0
1	hK	1800	0	1802	6	0
1	hL	1800	0	1802	8	0
1	hM	1800	0	1802	9	0
1	hN	1800	0	1802	3	0
1	hO	1800	0	1802	9	0
1	hP	1800	0	1802	3	0
1	hQ	1800	0	1802	3	0
1	hR	1800	0	1802	7	0
1	hS	1800	0	1802	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	hT	1800	0	1802	7	0
1	hU	1800	0	1802	5	0
1	hV	1800	0	1802	2	0
1	hW	1800	0	1802	6	0
1	hX	1800	0	1802	9	0
1	hY	1800	0	1802	7	0
1	hZ	1800	0	1802	7	0
1	ha	1800	0	1802	6	0
1	hb	1800	0	1802	7	0
1	hc	1800	0	1802	5	0
1	hd	1800	0	1802	1	0
1	he	1800	0	1802	4	0
1	hf	1800	0	1802	6	0
1	hg	1800	0	1802	8	0
1	hh	1800	0	1802	4	0
1	hi	1800	0	1802	4	0
1	hj	1800	0	1802	9	0
1	hk	1800	0	1802	2	0
1	hl	1800	0	1802	2	0
1	hm	1800	0	1802	0	0
1	hn	1800	0	1802	0	0
1	ho	1800	0	1802	3	0
1	hp	1800	0	1802	3	0
1	hq	1800	0	1802	6	0
1	hr	1800	0	1802	4	0
1	hs	1800	0	1802	9	0
1	ht	1800	0	1802	5	0
1	hu	1800	0	1802	5	0
1	hv	1800	0	1802	3	0
1	hw	1800	0	1802	2	0
1	hx	1800	0	1802	8	0
1	hy	1800	0	1802	6	0
1	hz	1800	0	1802	4	0
1	i	1800	0	1802	4	0
1	i0	1800	0	1802	3	0
1	i1	1800	0	1802	3	0
1	i2	1800	0	1802	6	0
1	i3	1800	0	1802	6	0
1	i4	1800	0	1802	4	0
1	i5	1800	0	1802	3	0
1	i6	1800	0	1802	2	0
1	i7	1800	0	1802	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	i8	1800	0	1802	3	0
1	i9	1800	0	1802	4	0
1	iA	1800	0	1802	2	0
1	iB	1800	0	1802	3	0
1	iC	1800	0	1802	3	0
1	iD	1800	0	1802	6	0
1	iE	1800	0	1802	8	0
1	iF	1800	0	1802	7	0
1	iG	1800	0	1802	7	0
1	iH	1800	0	1802	2	0
1	iI	1800	0	1802	0	0
1	iJ	1800	0	1802	4	0
1	iK	1800	0	1802	2	0
1	iL	1800	0	1802	2	0
1	iM	1800	0	1802	4	0
1	iN	1800	0	1802	6	0
1	iO	1800	0	1802	5	0
1	iP	1800	0	1802	3	0
1	iQ	1800	0	1802	2	0
1	iR	1800	0	1802	5	0
1	iS	1800	0	1802	6	0
1	iT	1800	0	1802	2	0
1	iU	1800	0	1802	4	0
1	iV	1800	0	1802	6	0
1	iW	1800	0	1802	6	0
1	iX	1800	0	1802	6	0
1	iY	1800	0	1802	4	0
1	iZ	1800	0	1802	2	0
1	ia	1800	0	1802	5	0
1	ib	1800	0	1802	4	0
1	ic	1800	0	1802	4	0
1	id	1800	0	1802	7	0
1	ie	1800	0	1802	5	0
1	if	1800	0	1802	5	0
1	ig	1800	0	1802	3	0
1	ih	1800	0	1802	3	0
1	ii	1800	0	1802	11	0
1	ij	1800	0	1802	9	0
1	ik	1800	0	1802	5	0
1	il	1800	0	1802	6	0
1	im	1800	0	1802	7	0
1	in	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	io	1800	0	1802	6	0
1	ip	1800	0	1802	4	0
1	iq	1800	0	1802	5	0
1	ir	1800	0	1802	8	0
1	is	1800	0	1802	2	0
1	it	1800	0	1802	6	0
1	iu	1800	0	1802	4	0
1	iv	1800	0	1802	3	0
1	iw	1800	0	1802	1	0
1	ix	1800	0	1802	3	0
1	iy	1800	0	1802	4	0
1	iz	1800	0	1802	3	0
1	j	1800	0	1802	4	0
1	j0	1800	0	1802	4	0
1	j1	1800	0	1802	5	0
1	j2	1800	0	1802	2	0
1	j3	1800	0	1802	3	0
1	j4	1800	0	1802	5	0
1	j5	1800	0	1802	5	0
1	j6	1800	0	1802	4	0
1	j7	1800	0	1802	4	0
1	j8	1800	0	1802	3	0
1	j9	1800	0	1802	3	0
1	jA	1800	0	1802	2	0
1	jB	1800	0	1802	8	0
1	jC	1800	0	1802	4	0
1	jD	1800	0	1802	4	0
1	jE	1800	0	1802	9	0
1	jF	1800	0	1802	5	0
1	jG	1800	0	1802	6	0
1	jH	1800	0	1802	4	0
1	jI	1800	0	1802	4	0
1	jJ	1800	0	1802	4	0
1	jK	1800	0	1802	5	0
1	jL	1800	0	1802	4	0
1	jM	1800	0	1802	6	0
1	jN	1800	0	1802	4	0
1	jO	1800	0	1802	1	0
1	jP	1800	0	1802	1	0
1	jQ	1800	0	1802	4	0
1	jR	1800	0	1802	5	0
1	jS	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	jT	1800	0	1802	3	0
1	jU	1800	0	1802	1	0
1	jV	1800	0	1802	6	0
1	jW	1800	0	1802	4	0
1	jX	1800	0	1802	3	0
1	jY	1800	0	1802	8	0
1	jZ	1800	0	1802	6	0
1	ja	1800	0	1802	3	0
1	jb	1800	0	1802	6	0
1	jc	1800	0	1802	4	0
1	jd	1800	0	1802	3	0
1	je	1800	0	1802	2	0
1	jf	1800	0	1802	2	0
1	jg	1800	0	1802	4	0
1	jh	1800	0	1802	4	0
1	ji	1800	0	1802	4	0
1	jj	1800	0	1802	3	0
1	jk	1800	0	1802	4	0
1	jl	1800	0	1802	3	0
1	jm	1800	0	1802	5	0
1	jn	1800	0	1802	4	0
1	jo	1800	0	1802	5	0
1	jp	1800	0	1802	5	0
1	jq	1800	0	1802	3	0
1	jr	1800	0	1802	6	0
1	js	1800	0	1802	3	0
1	jt	1800	0	1802	3	0
1	ju	1800	0	1802	10	0
1	jv	1800	0	1802	4	0
1	jw	1800	0	1802	6	0
1	jx	1800	0	1802	3	0
1	jy	1800	0	1802	7	0
1	jz	1800	0	1802	5	0
1	k	1800	0	1802	1	0
1	k0	1800	0	1802	7	0
1	k1	1800	0	1802	6	0
1	k2	1800	0	1802	2	0
1	k3	1800	0	1802	3	0
1	k4	1800	0	1802	3	0
1	k5	1800	0	1802	4	0
1	k6	1800	0	1802	2	0
1	k7	1800	0	1802	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	k8	1800	0	1802	3	0
1	k9	1800	0	1802	8	0
1	kA	1800	0	1802	6	0
1	kB	1800	0	1802	3	0
1	kC	1800	0	1802	4	0
1	kD	1800	0	1802	2	0
1	kE	1800	0	1802	3	0
1	kF	1800	0	1802	2	0
1	kG	1800	0	1802	2	0
1	kH	1800	0	1802	2	0
1	kI	1800	0	1802	3	0
1	kJ	1800	0	1802	5	0
1	kK	1800	0	1802	3	0
1	kL	1800	0	1802	4	0
1	kM	1800	0	1802	3	0
1	kN	1800	0	1802	3	0
1	kO	1800	0	1802	7	0
1	kP	1800	0	1802	4	0
1	kQ	1800	0	1802	2	0
1	kR	1800	0	1802	4	0
1	kS	1800	0	1802	5	0
1	kT	1800	0	1802	2	0
1	kU	1800	0	1802	7	0
1	kV	1800	0	1802	5	0
1	kW	1800	0	1802	1	0
1	kX	1800	0	1802	4	0
1	kY	1800	0	1802	5	0
1	kZ	1800	0	1802	4	0
1	ka	1800	0	1802	4	0
1	kb	1800	0	1802	4	0
1	kc	1800	0	1802	4	0
1	kd	1800	0	1802	3	0
1	ke	1800	0	1802	4	0
1	kf	1800	0	1802	3	0
1	kg	1800	0	1802	6	0
1	kh	1800	0	1802	2	0
1	ki	1800	0	1802	3	0
1	kj	1800	0	1802	1	0
1	kk	1800	0	1802	6	0
1	kl	1800	0	1802	4	0
1	km	1800	0	1802	3	0
1	kn	1800	0	1802	4	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	ko	1800	0	1802	1	0
1	kp	1800	0	1802	6	0
1	kq	1800	0	1802	5	0
1	kr	1800	0	1802	4	0
1	ks	1800	0	1802	4	0
1	kt	1800	0	1802	1	0
1	ku	1800	0	1802	4	0
1	kv	1800	0	1802	3	0
1	kw	1800	0	1802	4	0
1	kx	1800	0	1802	2	0
1	ky	1800	0	1802	2	0
1	kz	1800	0	1802	5	0
1	l	1800	0	1802	3	0
1	l0	1800	0	1802	6	0
1	l1	1800	0	1802	7	0
1	l2	1800	0	1802	4	0
1	l3	1800	0	1802	8	0
1	l4	1800	0	1802	5	0
1	l5	1800	0	1802	3	0
1	l6	1800	0	1802	7	0
1	l7	1800	0	1802	4	0
1	l8	1800	0	1802	8	0
1	l9	1800	0	1802	2	0
1	lA	1800	0	1802	6	0
1	lB	1800	0	1802	0	0
1	lC	1800	0	1802	6	0
1	lD	1800	0	1802	7	0
1	lE	1800	0	1802	5	0
1	lF	1800	0	1802	9	0
1	lG	1800	0	1802	3	0
1	lH	1800	0	1802	1	0
1	lI	1800	0	1802	5	0
1	lJ	1800	0	1802	2	0
1	lK	1800	0	1802	7	0
1	lL	1800	0	1802	4	0
1	lM	1800	0	1802	4	0
1	lN	1800	0	1802	8	0
1	lO	1800	0	1802	3	0
1	lP	1800	0	1802	4	0
1	lQ	1800	0	1802	2	0
1	lR	1800	0	1802	4	0
1	la	1800	0	1802	2	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	lb	1800	0	1802	1	0
1	lc	1800	0	1802	3	0
1	ld	1800	0	1802	1	0
1	le	1800	0	1802	6	0
1	lf	1800	0	1802	2	0
1	lg	1800	0	1802	3	0
1	lh	1800	0	1802	7	0
1	li	1800	0	1802	0	0
1	lj	1800	0	1802	3	0
1	lk	1800	0	1802	5	0
1	ll	1800	0	1802	3	0
1	lm	1800	0	1802	3	0
1	ln	1800	0	1802	7	0
1	lo	1800	0	1802	1	0
1	lp	1800	0	1802	1	0
1	lq	1800	0	1802	3	0
1	lr	1800	0	1802	4	0
1	ls	1800	0	1802	4	0
1	lt	1800	0	1802	5	0
1	lu	1800	0	1802	2	0
1	lv	1800	0	1802	9	0
1	lw	1800	0	1802	5	0
1	lx	1800	0	1802	4	0
1	ly	1800	0	1802	4	0
1	lz	1800	0	1802	2	0
1	m	1800	0	1802	6	0
1	n	1800	0	1802	3	0
1	o	1800	0	1802	2	0
1	p	1800	0	1802	3	0
1	q	1800	0	1802	3	0
1	r	1800	0	1802	3	0
1	s	1800	0	1802	6	0
1	t	1800	0	1802	4	0
1	u	1800	0	1802	4	0
1	v	1800	0	1802	0	0
1	w	1800	0	1802	3	0
1	x	1800	0	1802	8	0
1	y	1800	0	1802	5	0
1	z	1800	0	1802	4	0
All	All	2440800	0	2443512	4796	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 1.

All (4796) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7y:209:ALA:HB3	1:7y:214:MET:HE2	1.57	0.85
1:78:83:LEU:HD23	1:78:84:HIS:CE1	2.14	0.81
1:3q:58:THR:HG21	1:3r:39:MET:HE2	1.62	0.81
1:d8:226:HIS:CG	1:d8:227:LYS:H	1.99	0.79
1:fT:13:GLN:HE22	1:fU:3:VAL:HG12	1.47	0.78
1:d8:226:HIS:CD2	1:d8:227:LYS:H	2.02	0.76
1:kg:231:LEU:H	1:kk:200:THR:HG23	1.51	0.76
1:cd:84:HIS:CD2	1:cd:87:HIS:CE1	2.75	0.74
1:3O:5:ASN:HD21	1:3O:11:VAL:HG12	1.53	0.74
1:e4:96:MET:HE2	1:e4:120:HIS:CD2	2.23	0.73
1:jB:26:VAL:HG12	1:jB:36:VAL:HG22	1.71	0.73
1:7Z:48:THR:HA	1:7Z:118:MET:HE1	1.71	0.72
1:gG:181:VAL:HG12	1:gG:185:MET:HE2	1.71	0.71
1:41:65:ALA:HA	1:41:144:MET:HE1	1.73	0.70
1:61:205:LEU:HD22	1:61:213:GLU:HB3	1.73	0.69
1:5c:226:HIS:CE1	1:5c:228:ALA:HB3	2.27	0.69
1:6r:150:ILE:HD11	1:6r:168:PHE:CE1	2.28	0.69
1:bh:32:PHE:CD1	1:bh:141:ILE:HG21	2.27	0.69
1:fm:110:THR:HG23	1:fm:113:GLU:H	1.56	0.69
1:hB:87:HIS:CE1	1:hB:98:GLU:H	2.09	0.69
1:3Q:151:LEU:H	1:3Q:151:LEU:HD12	1.56	0.69
1:gd:172:LEU:HD11	1:gd:182:LYS:HG2	1.73	0.69
1:he:6:LEU:HD12	1:hj:115:ILE:HD12	1.75	0.69
1:jB:19:THR:HG23	1:jB:43:LEU:HD22	1.74	0.69
1:9i:161:PHE:O	1:9i:165:VAL:HG23	1.93	0.69
1:en:13:GLN:HE21	1:en:13:GLN:HA	1.58	0.69
1:l3:165:VAL:HG22	1:l3:190:LEU:HD11	1.75	0.69
1:8r:83:LEU:HD23	1:8r:84:HIS:CE1	2.28	0.68
1:e3:222:GLY:H	1:e3:226:HIS:CD2	2.12	0.68
1:g2:87:HIS:CD2	1:g2:89:GLY:H	2.10	0.68
1:8O:209:ALA:HB3	1:8O:214:MET:HE2	1.75	0.68
1:lA:138:LEU:O	1:lA:142:VAL:HG23	1.94	0.68
1:as:68:MET:HE1	1:as:140:LYS:HB3	1.75	0.67
1:N:143:ARG:HH12	1:N:175:GLU:CD	2.02	0.67
1:a0:195:ASN:HD21	1:a0:221:VAL:HG11	1.58	0.67
1:ig:165:VAL:HG22	1:ig:190:LEU:HD11	1.76	0.67
1:kG:22:ALA:O	1:kG:26:VAL:HG23	1.95	0.67
1:i9:80:TRP:CZ2	1:i9:84:HIS:CE1	2.83	0.66
1:dY:181:VAL:HG12	1:dY:185:MET:HE2	1.76	0.66
1:39:84:HIS:CE1	1:39:87:HIS:CE1	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3i:96:MET:HE3	1:3i:124:ILE:HD12	1.78	0.66
1:bu:68:MET:HE2	1:bu:144:MET:HE1	1.78	0.66
1:fD:215:MET:HA	1:fD:215:MET:HE2	1.78	0.66
1:bE:165:VAL:HG22	1:bE:190:LEU:HD11	1.77	0.66
1:kY:104:ILE:HD13	1:kY:126:VAL:HG13	1.78	0.66
1:fU:190:LEU:HD21	1:fU:214:MET:HE1	1.78	0.66
1:gg:96:MET:HE2	1:gg:120:HIS:CD2	2.31	0.66
1:1W:68:MET:HB2	1:1X:211:LEU:HD23	1.78	0.65
1:5S:11:VAL:HG21	1:5T:6:LEU:HD23	1.79	0.65
1:8w:73:ILE:HD11	1:8w:134:ILE:HG12	1.79	0.65
1:au:124:ILE:HG22	1:au:126:VAL:HG13	1.78	0.65
1:aH:83:LEU:HD23	1:aH:84:HIS:CE1	2.32	0.65
1:kM:24:VAL:HG22	1:kM:59:VAL:HG22	1.77	0.65
1:5r:151:LEU:HA	1:5r:185:MET:HE1	1.77	0.65
1:ex:175:GLU:HG2	1:ex:185:MET:HE1	1.77	0.65
1:kH:31:ALA:HB2	1:kH:62:HIS:CE1	2.32	0.64
1:fx:11:VAL:HG22	1:fy:6:LEU:HD21	1.79	0.64
1:bx:150:ILE:HD12	1:bx:172:LEU:HD21	1.79	0.64
1:lk:144:MET:HE1	1:ll:216:THR:HG23	1.79	0.64
1:e1:37:ILE:HD12	1:e1:135:ILE:HG23	1.80	0.64
1:9a:209:ALA:HB3	1:9a:214:MET:HE2	1.80	0.64
1:9l:165:VAL:HG22	1:9l:190:LEU:HD11	1.78	0.64
1:jY:132:ARG:HA	1:jY:135:ILE:HG13	1.80	0.64
1:g0:202:LEU:HD22	1:g0:214:MET:SD	2.38	0.64
1:M:37:ILE:HD12	1:M:37:ILE:H	1.63	0.64
1:jg:27:VAL:O	1:jg:31:ALA:HB2	1.98	0.63
1:jI:10:MET:HE2	1:jJ:7:GLN:HG3	1.80	0.63
1:lq:96:MET:HE2	1:lq:120:HIS:CG	2.33	0.63
1:6z:91:ILE:HD12	1:6z:120:HIS:CD2	2.33	0.63
1:Q:118:MET:HE2	1:Q:126:VAL:HG13	1.80	0.63
1:gQ:161:PHE:CE2	1:gQ:202:LEU:HD11	2.34	0.63
1:7p:68:MET:HE2	1:7q:212:GLU:HA	1.81	0.63
1:fP:73:ILE:HD11	1:fP:134:ILE:HG12	1.81	0.63
1:2r:37:ILE:H	1:2r:37:ILE:HD12	1.63	0.63
1:fZ:143:ARG:HH21	1:fZ:175:GLU:CD	2.06	0.63
1:jJ:83:LEU:HD23	1:jJ:84:HIS:CE1	2.34	0.63
1:jN:24:VAL:HG22	1:jN:59:VAL:HG12	1.80	0.63
1:dy:80:TRP:CE2	1:dy:84:HIS:HE1	2.17	0.63
1:fV:15:ILE:HD11	1:fV:20:LEU:HD21	1.79	0.63
1:3s:27:VAL:HA	1:3s:31:ALA:HA	1.80	0.62
1:kK:138:LEU:O	1:kK:142:VAL:HG23	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b0:80:TRP:CH2	1:b0:84:HIS:CE1	2.87	0.62
1:kp:39:MET:HE3	1:kp:43:LEU:HD11	1.80	0.62
1:2o:12:HIS:CD2	1:2o:115:ILE:HD11	2.34	0.62
1:8U:214:MET:HA	1:8U:214:MET:HE2	1.82	0.62
1:hF:68:MET:HE1	1:hG:212:GLU:HG3	1.80	0.62
1:7L:104:ILE:HD13	1:7L:126:VAL:HG12	1.82	0.62
1:ka:97:ARG:HH22	1:ka:103:ASP:CG	2.08	0.62
1:2S:171:THR:HA	1:2T:230:VAL:HG21	1.81	0.62
1:18:138:LEU:HA	1:18:141:ILE:HD12	1.82	0.62
1:dn:20:LEU:O	1:dn:24:VAL:HG23	2.00	0.61
1:4z:144:MET:HE1	1:4A:215:MET:HE3	1.81	0.61
1:id:120:HIS:CG	1:id:121:ASN:H	2.19	0.61
1:bz:130:TYR:CZ	1:bz:134:ILE:HD11	2.35	0.61
1:B:37:ILE:HD12	1:B:37:ILE:H	1.65	0.61
1:l6:151:LEU:H	1:l6:151:LEU:HD12	1.64	0.61
1:67:64:ALA:HB2	1:68:166:ASP:HA	1.82	0.61
1:8h:69:LEU:HD11	1:8h:134:ILE:HG23	1.82	0.61
1:9h:37:ILE:H	1:9h:37:ILE:HD12	1.66	0.61
1:iD:211:LEU:HD11	1:iD:215:MET:HE2	1.81	0.61
1:lK:181:VAL:HG22	1:3j:181:VAL:HG22	1.81	0.61
1:72:26:VAL:HG21	1:72:39:MET:HE2	1.81	0.61
1:eo:138:LEU:O	1:eo:142:VAL:HG23	2.01	0.61
1:le:96:MET:HE2	1:le:120:HIS:CG	2.34	0.61
1:4k:185:MET:HE2	1:4k:185:MET:HA	1.83	0.61
1:cX:201:ILE:HG21	1:cX:217:ALA:HB2	1.82	0.61
1:ef:168:PHE:CE2	1:ef:172:LEU:HD11	2.36	0.61
1:1M:68:MET:HE1	1:1N:212:GLU:HA	1.83	0.60
1:hY:80:TRP:CZ2	1:hY:84:HIS:CE1	2.88	0.60
1:fg:12:HIS:CD2	1:fg:115:ILE:HD11	2.37	0.60
1:iX:68:MET:HA	1:iX:68:MET:HE3	1.83	0.60
1:lt:181:VAL:HG12	1:lt:185:MET:HE3	1.83	0.60
1:lQ:12:HIS:CD2	1:lQ:115:ILE:HD11	2.36	0.60
1:k7:37:ILE:H	1:k7:37:ILE:HD12	1.67	0.60
1:b2:202:LEU:HD22	1:b2:214:MET:HE3	1.82	0.60
1:bS:120:HIS:CG	1:bS:121:ASN:H	2.19	0.60
1:b0:80:TRP:CZ3	1:b0:84:HIS:CE1	2.89	0.60
1:b5:32:PHE:CZ	1:b5:62:HIS:CD2	2.89	0.60
1:lO:65:ALA:HB1	1:lO:141:ILE:HD12	1.82	0.60
1:4s:165:VAL:HG12	1:4s:190:LEU:HD11	1.83	0.60
1:9F:20:LEU:HD21	1:9F:54:THR:HG22	1.83	0.60
1:m:215:MET:HE2	1:n:68:MET:HE1	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b3:5:ASN:HD21	1:b3:46:GLY:HA3	1.66	0.60
1:dO:96:MET:HE2	1:dO:120:HIS:CE1	2.37	0.60
1:10:120:HIS:CG	1:10:121:ASN:H	2.19	0.60
1:cA:154:ARG:HH22	1:cB:231:LEU:C	2.08	0.60
1:ju:151:LEU:HD22	1:ju:189:LEU:HD12	1.83	0.60
1:6w:48:THR:HG21	1:6w:111:LEU:HD11	1.83	0.60
1:bd:48:THR:HA	1:bd:118:MET:HE1	1.84	0.60
1:d8:226:HIS:CG	1:d8:227:LYS:N	2.69	0.60
1:e6:2:ILE:HD12	1:e6:118:MET:HE2	1.83	0.60
1:1q:17:PRO:HG2	1:1r:43:LEU:HD21	1.84	0.60
1:eE:181:VAL:HG12	1:eE:185:MET:HE3	1.83	0.60
1:hI:66:MET:HE2	1:hI:66:MET:HA	1.84	0.59
1:j4:96:MET:HA	1:j4:96:MET:HE2	1.84	0.59
1:af:154:ARG:HA	1:af:193:ASN:HB3	1.83	0.59
1:2i:144:MET:HE1	1:2j:216:THR:HG23	1.83	0.59
1:cd:15:ILE:HD13	1:cd:20:LEU:HD21	1.82	0.59
1:d2:69:LEU:HB2	1:d2:141:ILE:HD11	1.84	0.59
1:fj:150:ILE:HG23	1:fj:151:LEU:HD22	1.84	0.59
1:h3:79:GLU:CD	1:h3:82:ARG:HH21	2.11	0.59
1:5s:27:VAL:HG11	1:5s:59:VAL:HG13	1.83	0.59
1:6w:20:LEU:HD11	1:6x:42:ALA:HB1	1.84	0.59
1:7X:26:VAL:CG1	1:7X:36:VAL:HG13	2.32	0.59
1:b7:111:LEU:H	1:b7:111:LEU:HD12	1.67	0.59
1:ba:6:LEU:HD22	1:ba:6:LEU:H	1.67	0.59
1:eL:37:ILE:H	1:eL:37:ILE:HD12	1.67	0.59
1:fj:58:THR:HG22	1:fj:58:THR:O	2.02	0.59
1:g6:40:PHE:CE2	1:g6:134:ILE:HG21	2.37	0.59
1:kb:150:ILE:HG21	1:kb:185:MET:HE2	1.85	0.59
1:a2:69:LEU:C	1:a2:69:LEU:HD23	2.28	0.59
1:3s:172:LEU:HD21	1:3s:185:MET:HE1	1.85	0.59
1:4w:83:LEU:HD23	1:4w:84:HIS:CE1	2.38	0.59
1:kd:36:VAL:HG13	1:kd:37:ILE:HD12	1.85	0.59
1:2b:191:VAL:HG13	1:2b:202:LEU:HD13	1.83	0.59
1:ae:163:ASP:CG	1:ae:167:ARG:HH21	2.10	0.59
1:bg:95:GLN:HA	1:bg:120:HIS:CD2	2.37	0.59
1:fd:65:ALA:HB1	1:fd:141:ILE:HD13	1.84	0.59
1:iW:80:TRP:CZ2	1:iW:84:HIS:HE1	2.21	0.59
1:lv:6:LEU:HD23	1:lv:118:MET:HE3	1.85	0.59
1:ax:56:LEU:HD13	1:ax:69:LEU:HD21	1.84	0.59
1:hO:207:PRO:HG2	1:fW:205:LEU:HD21	1.84	0.59
1:j5:190:LEU:HD23	1:j5:214:MET:HE1	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lq:96:MET:HE2	1:lq:120:HIS:CD2	2.37	0.59
1:3V:15:ILE:HD11	1:3V:19:THR:HG21	1.84	0.59
1:11:69:LEU:HD13	1:11:137:GLY:HA3	1.84	0.59
1:cx:2:ILE:HD11	1:cx:118:MET:HB3	1.84	0.59
1:2U:143:ARG:HH12	1:2U:175:GLU:CD	2.11	0.59
1:as:185:MET:HA	1:as:189:LEU:HB3	1.85	0.59
1:1l:185:MET:HE3	1:1l:189:LEU:HD23	1.85	0.59
1:u:37:ILE:H	1:u:37:ILE:HD12	1.68	0.59
1:kH:118:MET:HE2	1:kH:127:GLY:H	1.68	0.59
1:lk:48:THR:HG22	1:lk:118:MET:HE1	1.84	0.59
1:hc:184:TRP:CZ3	1:jb:185:MET:HE3	2.37	0.58
1:hC:204:ALA:HB1	1:fK:205:LEU:CD1	2.32	0.58
1:49:2:ILE:HG13	1:49:118:MET:HE2	1.84	0.58
1:cp:210:THR:HG23	1:cp:213:GLU:H	1.67	0.58
1:9:30:LYS:HB3	1:9:33:SER:HB2	1.85	0.58
1:6M:22:ALA:HB2	1:6R:18:ARG:HG2	1.85	0.58
1:8T:12:HIS:CE1	1:8T:111:LEU:HD21	2.38	0.58
1:bB:168:PHE:CG	1:bB:190:LEU:HD13	2.38	0.58
1:K:153:ILE:HG23	1:K:189:LEU:HD21	1.84	0.58
1:id:153:ILE:HG22	1:id:153:ILE:O	2.03	0.58
1:1O:44:SER:HA	1:1O:55:MET:HE1	1.85	0.58
1:cA:80:TRP:CH2	1:cA:129:ILE:HD13	2.38	0.58
1:jS:97:ARG:HH22	1:jS:103:ASP:CG	2.11	0.58
1:kz:211:LEU:HD11	1:kz:215:MET:HE2	1.83	0.58
1:kO:118:MET:HE3	1:kO:126:VAL:HG13	1.86	0.58
1:kU:109:SER:HB3	1:kU:114:GLN:HE21	1.68	0.58
1:55:120:HIS:CG	1:55:121:ASN:H	2.20	0.58
1:7M:20:LEU:O	1:7M:24:VAL:HG23	2.02	0.58
1:9v:181:VAL:HG12	1:9v:185:MET:HE2	1.85	0.58
1:bg:5:ASN:HD21	1:bg:11:VAL:HG12	1.67	0.58
1:d5:10:MET:HE2	1:d5:119:THR:HG23	1.85	0.58
1:6h:211:LEU:HD22	1:6h:211:LEU:H	1.67	0.58
1:bG:37:ILE:H	1:bG:37:ILE:HD12	1.68	0.58
1:cB:226:HIS:CE1	1:cB:229:ARG:HA	2.38	0.58
1:dT:26:VAL:HG21	1:dT:39:MET:HE2	1.85	0.58
1:ej:161:PHE:CZ	1:ej:165:VAL:HG11	2.39	0.58
1:S:12:HIS:CE1	1:S:111:LEU:HD21	2.38	0.58
1:hF:153:ILE:HG21	1:hF:168:PHE:HA	1.85	0.58
1:jD:201:ILE:HG21	1:jD:218:CYS:H	1.69	0.58
1:2w:37:ILE:HD11	1:2w:142:VAL:HG21	1.85	0.58
1:4n:32:PHE:O	1:4n:142:VAL:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4R:35:GLU:CD	1:4R:173:ARG:HH12	2.11	0.58
1:c9:168:PHE:CE2	1:c9:172:LEU:HD11	2.38	0.58
1:d8:185:MET:HG2	1:d8:189:LEU:HD12	1.84	0.58
1:d:162:ARG:HA	1:d:215:MET:HE2	1.86	0.58
1:3E:204:ALA:HB2	1:5K:205:LEU:HA	1.85	0.58
1:6v:11:VAL:HG11	1:6w:6:LEU:HD23	1.86	0.58
1:em:15:ILE:HG21	1:en:42:ALA:HB1	1.86	0.58
1:eN:12:HIS:CD2	1:eN:115:ILE:HD11	2.39	0.58
1:j1:37:ILE:HB	1:j1:38:PRO:HD3	1.86	0.58
1:jy:40:PHE:CZ	1:jy:134:ILE:HG21	2.39	0.58
1:4Z:18:ARG:NH1	1:4Z:21:ASN:HD22	2.02	0.58
1:5Q:143:ARG:HH12	1:5Q:175:GLU:CD	2.12	0.58
1:9z:198:CYS:HA	1:9z:201:ILE:HD12	1.85	0.58
1:av:154:ARG:HA	1:av:193:ASN:HB3	1.85	0.58
1:e3:13:GLN:HE22	1:e4:3:VAL:HG13	1.69	0.58
1:ee:104:ILE:HG12	1:ee:126:VAL:HG12	1.86	0.58
1:kB:96:MET:HE1	1:kB:113:GLU:HG2	1.85	0.58
1:9y:12:HIS:CE1	1:9y:111:LEU:HD13	2.39	0.58
1:lG:96:MET:HE1	1:lG:116:GLY:HA3	1.84	0.57
1:6F:34:PRO:HA	1:6F:37:ILE:HD12	1.85	0.57
1:12:96:MET:SD	1:12:120:HIS:CD2	2.97	0.57
1:gH:162:ARG:HA	1:gH:165:VAL:HG22	1.86	0.57
1:ii:144:MET:HE1	1:ij:216:THR:HG23	1.86	0.57
1:k1:120:HIS:CG	1:k1:121:ASN:H	2.21	0.57
1:3z:37:ILE:H	1:3z:37:ILE:HD12	1.69	0.57
1:5a:181:VAL:CG1	1:5a:185:MET:HE3	2.35	0.57
1:6T:159:GLU:CD	1:6T:167:ARG:HH22	2.12	0.57
1:bS:120:HIS:CG	1:bS:121:ASN:N	2.72	0.57
1:g8:95:GLN:OE1	1:g8:120:HIS:HE1	1.87	0.57
1:ly:195:ASN:HD21	1:ly:221:VAL:HG11	1.69	0.57
1:5a:181:VAL:HG12	1:5a:185:MET:HE3	1.87	0.57
1:75:96:MET:HE2	1:75:120:HIS:CD2	2.39	0.57
1:8R:83:LEU:HD23	1:8R:84:HIS:CE1	2.39	0.57
1:jV:3:VAL:HG21	1:jV:13:GLN:HG3	1.85	0.57
1:4H:172:LEU:HD11	1:4H:177:ALA:HB3	1.84	0.57
1:ge:211:LEU:HG	1:ge:215:MET:HE2	1.86	0.57
1:hX:48:THR:HG22	1:hX:118:MET:HE1	1.87	0.57
1:kO:209:ALA:HB3	1:kO:214:MET:HE2	1.87	0.57
1:4s:79:GLU:CD	1:4s:82:ARG:HH21	2.12	0.57
1:6j:120:HIS:CD2	1:6j:121:ASN:H	2.22	0.57
1:a9:95:GLN:O	1:a9:120:HIS:CE1	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fw:130:TYR:CE2	1:fw:134:ILE:HD11	2.39	0.57
1:hb:2:ILE:HD11	1:hb:118:MET:HE2	1.86	0.57
1:1I:161:PHE:CE2	1:1I:202:LEU:HD11	2.40	0.57
1:hR:184:TRP:CZ2	1:k2:185:MET:HE2	2.39	0.57
1:3J:47:ALA:HB1	1:3J:51:ASP:HB2	1.85	0.57
1:6j:120:HIS:CG	1:6j:121:ASN:H	2.22	0.57
1:bQ:150:ILE:HD12	1:bQ:185:MET:HE3	1.87	0.57
1:d2:20:LEU:HD11	1:d3:42:ALA:HB1	1.86	0.57
1:b:20:LEU:O	1:b:24:VAL:HG23	2.05	0.57
1:gy:185:MET:HG2	1:gy:189:LEU:HD22	1.86	0.57
1:hS:184:TRP:CD1	1:hS:188:THR:HG1	2.22	0.57
1:jG:43:LEU:HD11	1:jG:55:MET:HE3	1.87	0.57
1:jW:219:GLN:HE22	1:jW:226:HIS:CE1	2.23	0.57
1:7m:43:LEU:HD23	1:7r:17:PRO:HG3	1.86	0.57
1:3a:150:ILE:HA	1:3a:171:THR:HG21	1.85	0.57
1:gR:12:HIS:CE1	1:gS:4:GLN:HE22	2.23	0.57
1:h6:37:ILE:HD12	1:h6:135:ILE:HG23	1.85	0.57
1:3O:5:ASN:HD21	1:3O:11:VAL:CG1	2.18	0.57
1:53:37:ILE:HD11	1:53:138:LEU:HB3	1.87	0.57
1:ba:96:MET:HE2	1:ba:120:HIS:CD2	2.40	0.57
1:bx:17:PRO:HG2	1:by:43:LEU:HD23	1.86	0.57
1:fS:165:VAL:HG22	1:fS:190:LEU:HD21	1.86	0.57
1:hC:204:ALA:HB1	1:fK:205:LEU:HD11	1.87	0.56
1:1T:226:HIS:CD2	1:1T:227:LYS:HG3	2.39	0.56
1:kA:47:ALA:O	1:kA:118:MET:HE1	2.05	0.56
1:le:96:MET:HE2	1:le:120:HIS:CD2	2.40	0.56
1:4k:150:ILE:HA	1:4k:171:THR:HG21	1.86	0.56
1:4C:32:PHE:CD2	1:4C:138:LEU:HD11	2.40	0.56
1:9P:78:ALA:HB1	1:9P:82:ARG:HH12	1.70	0.56
1:cY:97:ARG:HH22	1:cY:103:ASP:CG	2.12	0.56
1:lD:87:HIS:H	1:lD:100:ARG:NH2	2.03	0.56
1:2m:47:ALA:HB1	1:2m:51:ASP:HB2	1.85	0.56
1:42:56:LEU:HD13	1:42:70:LYS:HE2	1.87	0.56
1:45:23:TRP:HB2	1:45:43:LEU:HD13	1.87	0.56
1:fR:39:MET:HE3	1:fR:43:LEU:HD11	1.87	0.56
1:8:229:ARG:HH21	1:8:231:LEU:C	2.13	0.56
1:iC:19:THR:HG21	1:iC:43:LEU:HD13	1.88	0.56
1:j9:40:PHE:CZ	1:j9:134:ILE:HG21	2.40	0.56
1:kD:104:ILE:HG12	1:kD:126:VAL:HG12	1.88	0.56
1:l0:124:ILE:HD12	1:l0:124:ILE:N	2.19	0.56
1:3V:39:MET:HE2	1:3V:39:MET:HA	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5U:181:VAL:HG12	1:5U:185:MET:HE3	1.88	0.56
1:7H:120:HIS:CG	1:7H:121:ASN:H	2.24	0.56
1:dU:17:PRO:HG2	1:dV:43:LEU:HD23	1.87	0.56
1:eN:40:PHE:CZ	1:eN:134:ILE:HG21	2.41	0.56
1:g0:64:ALA:HB2	1:g1:165:VAL:HG12	1.87	0.56
1:id:1:PRO:HA	1:id:46:GLY:O	2.05	0.56
1:5k:191:VAL:HG13	1:5k:202:LEU:HB2	1.87	0.56
1:6P:104:ILE:HG12	1:6P:126:VAL:HG12	1.87	0.56
1:fy:12:HIS:CD2	1:fy:111:LEU:HD11	2.40	0.56
1:P:3:VAL:HG22	1:P:4:GLN:H	1.70	0.56
1:i1:11:VAL:HG11	1:i3:6:LEU:HD22	1.86	0.56
1:iq:150:ILE:HG21	1:iq:185:MET:HE3	1.87	0.56
1:jW:42:ALA:HB2	1:k1:54:THR:CG2	2.34	0.56
1:kO:229:ARG:HD3	1:kO:229:ARG:H	1.70	0.56
1:hj:104:ILE:HD13	1:hj:126:VAL:HG12	1.87	0.56
1:it:77:ALA:HB1	1:it:101:GLY:C	2.31	0.56
1:6B:37:ILE:HG23	1:6B:135:ILE:HG12	1.88	0.56
1:Y:180:GLU:CD	1:Y:180:GLU:H	2.14	0.56
1:dw:104:ILE:HD13	1:dw:126:VAL:HG13	1.87	0.56
1:jV:3:VAL:HG21	1:jV:13:GLN:CG	2.36	0.56
1:lJ:154:ARG:HA	1:lJ:193:ASN:HB3	1.87	0.56
1:3p:71:GLU:HG3	1:3q:211:LEU:HD22	1.88	0.56
1:43:69:LEU:HD23	1:43:69:LEU:C	2.31	0.56
1:e0:9:GLN:O	1:e0:119:THR:HB	2.05	0.56
1:kp:221:VAL:HG12	1:kp:226:HIS:CE1	2.41	0.56
1:28:161:PHE:O	1:28:165:VAL:HG12	2.06	0.56
1:2b:34:PRO:HG3	1:2b:174:ALA:HB2	1.87	0.56
1:2H:80:TRP:CD2	1:2H:84:HIS:HE1	2.24	0.56
1:4j:120:HIS:CG	1:4j:121:ASN:H	2.24	0.56
1:4K:12:HIS:CE1	1:4K:48:THR:HG23	2.40	0.56
1:51:10:MET:HB2	1:51:119:THR:HG22	1.86	0.56
1:89:124:ILE:HG22	1:89:126:VAL:HG23	1.88	0.56
1:an:24:VAL:HG22	1:an:59:VAL:HG22	1.88	0.56
1:kJ:168:PHE:CZ	1:kJ:172:LEU:HD11	2.40	0.56
1:3L:48:THR:HA	1:3L:118:MET:HE1	1.88	0.56
1:8H:84:HIS:CD2	1:8H:85:PRO:HD2	2.40	0.56
1:aL:130:TYR:CZ	1:aL:134:ILE:HD11	2.41	0.56
1:1X:2:ILE:HD11	1:1X:115:ILE:HG23	1.88	0.56
1:4o:181:VAL:HG12	1:4o:185:MET:HE3	1.88	0.56
1:9S:37:ILE:H	1:9S:37:ILE:HD12	1.71	0.56
1:br:24:VAL:HG22	1:br:59:VAL:HG12	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:z:87:HIS:CD2	1:z:91:ILE:HD13	2.41	0.56
1:hs:120:HIS:CG	1:hs:121:ASN:H	2.24	0.55
1:lx:104:ILE:HG12	1:lx:126:VAL:HG12	1.88	0.55
1:4F:66:MET:HA	1:4F:66:MET:HE2	1.88	0.55
1:4S:104:ILE:HD13	1:4S:126:VAL:HG12	1.88	0.55
1:5n:97:ARG:HH22	1:5n:103:ASP:CG	2.14	0.55
1:74:87:HIS:CE1	1:74:91:ILE:HD11	2.41	0.55
1:bk:181:VAL:CG1	1:bk:185:MET:HE3	2.36	0.55
1:jd:150:ILE:O	1:jd:153:ILE:HG22	2.06	0.55
1:l0:80:TRP:CE2	1:l0:84:HIS:CE1	2.94	0.55
1:lD:73:ILE:HD11	1:lD:134:ILE:HG12	1.87	0.55
1:9K:198:CYS:HA	1:9K:201:ILE:HD12	1.89	0.55
1:cr:32:PHE:CD2	1:cr:141:ILE:HG21	2.42	0.55
1:eu:202:LEU:HD23	1:eu:214:MET:HE1	1.88	0.55
1:hY:80:TRP:CE2	1:hY:84:HIS:CE1	2.93	0.55
1:5H:66:MET:HA	1:5H:66:MET:HE2	1.89	0.55
1:aw:80:TRP:CZ3	1:aw:84:HIS:HE1	2.25	0.55
1:bD:179:GLN:H	1:bD:179:GLN:CD	2.14	0.55
1:dA:2:ILE:HD11	1:dA:115:ILE:HD12	1.88	0.55
1:7M:181:VAL:HG22	1:7V:181:VAL:HA	1.88	0.55
1:78:191:VAL:HG12	1:78:202:LEU:HD13	1.88	0.55
1:9K:153:ILE:HD12	1:9K:167:ARG:HB3	1.89	0.55
1:c1:64:ALA:HB2	1:c2:166:ASP:HA	1.89	0.55
1:gN:150:ILE:HD11	1:gN:168:PHE:CZ	2.42	0.55
1:44:20:LEU:HD13	1:44:58:THR:HG21	1.89	0.55
1:8j:104:ILE:HG21	1:8j:133:TRP:CH2	2.42	0.55
1:dJ:73:ILE:HG22	1:dJ:133:TRP:HB3	1.88	0.55
1:iA:19:THR:HG23	1:iA:43:LEU:HD22	1.87	0.55
1:6M:3:VAL:HG12	1:6M:4:GLN:HG3	1.88	0.55
1:7k:86:VAL:HG13	1:7k:98:GLU:HB2	1.88	0.55
1:bI:165:VAL:HG22	1:bI:190:LEU:HD11	1.87	0.55
1:em:211:LEU:HD11	1:em:215:MET:HE3	1.88	0.55
1:iG:80:TRP:CE2	1:iG:104:ILE:HD12	2.42	0.55
1:5g:34:PRO:HA	1:5g:37:ILE:HD12	1.88	0.55
1:9w:168:PHE:CE1	1:9w:189:LEU:HD22	2.41	0.55
1:eO:138:LEU:HD23	1:eO:141:ILE:HD12	1.89	0.55
1:fL:138:LEU:HA	1:fL:141:ILE:HD12	1.89	0.55
1:fP:32:PHE:HA	1:fP:142:VAL:HG12	1.88	0.55
1:X:161:PHE:O	1:X:165:VAL:HG23	2.07	0.55
1:hM:202:LEU:HA	1:hM:205:LEU:HD12	1.87	0.55
1:kE:31:ALA:HB2	1:kE:62:HIS:CE1	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7J:68:MET:HE1	1:7J:141:ILE:HG13	1.88	0.55
1:8K:33:SER:O	1:8K:36:VAL:HG12	2.06	0.55
1:91:68:MET:HE1	1:91:144:MET:HG3	1.88	0.55
1:aL:84:HIS:CE1	1:aL:87:HIS:CE1	2.94	0.55
1:aU:151:LEU:HD12	1:O:192:GLN:HE22	1.72	0.55
1:jE:57:ASN:HB3	1:jF:38:PRO:HG3	1.89	0.55
1:4v:150:ILE:HD11	1:4v:168:PHE:CE1	2.42	0.55
1:8u:181:VAL:HA	1:ef:181:VAL:HG22	1.88	0.55
1:cX:81:ASP:CG	1:cX:100:ARG:HH21	2.14	0.55
1:eC:42:ALA:HA	1:eC:45:GLU:HG2	1.89	0.55
1:i2:124:ILE:H	1:i2:124:ILE:HD12	1.71	0.54
1:l0:10:MET:HE2	1:l0:118:MET:O	2.07	0.54
1:48:97:ARG:HH22	1:48:103:ASP:CG	2.15	0.54
1:5X:20:LEU:HD13	1:5X:58:THR:HG21	1.89	0.54
1:90:3:VAL:HG21	1:90:13:GLN:HE21	1.72	0.54
1:9I:1:PRO:O	1:9I:12:HIS:CD2	2.61	0.54
1:1b:15:ILE:HG23	1:1c:42:ALA:HB2	1.89	0.54
1:cC:193:ASN:HD21	1:cK:151:LEU:CD2	2.20	0.54
1:ij:12:HIS:CG	1:ij:111:LEU:HD21	2.42	0.54
1:it:32:PHE:CD1	1:it:141:ILE:HG21	2.43	0.54
1:jE:5:ASN:HB3	1:jE:6:LEU:HD22	1.90	0.54
1:jE:69:LEU:HD23	1:jE:69:LEU:C	2.32	0.54
1:k9:40:PHE:CE1	1:k9:55:MET:HE3	2.43	0.54
1:2e:34:PRO:HG3	1:2e:174:ALA:HA	1.90	0.54
1:4C:161:PHE:O	1:4C:165:VAL:HG23	2.07	0.54
1:8o:80:TRP:CE2	1:8o:104:ILE:HD11	2.43	0.54
1:dW:44:SER:HB3	1:dW:131:LYS:HG2	1.89	0.54
1:iq:221:VAL:HG12	1:iq:231:LEU:HD13	1.88	0.54
1:l1:163:ASP:CG	1:l1:167:ARG:HH21	2.16	0.54
1:5J:205:LEU:HD21	1:5J:213:GLU:HB3	1.89	0.54
1:7h:186:THR:HG23	1:7h:190:LEU:HD12	1.89	0.54
1:dc:150:ILE:O	1:dc:153:ILE:HG22	2.07	0.54
1:f2:229:ARG:HD2	1:f2:230:VAL:O	2.08	0.54
1:kc:165:VAL:HG22	1:kc:190:LEU:HD11	1.88	0.54
1:ag:37:ILE:HB	1:ag:38:PRO:HD3	1.90	0.54
1:bB:59:VAL:HB	1:bB:66:MET:HE2	1.89	0.54
1:4:168:PHE:CE1	1:4:190:LEU:HB2	2.42	0.54
1:gW:66:MET:HA	1:gW:66:MET:HE2	1.89	0.54
1:h6:160:PRO:HG2	1:h6:163:ASP:HB2	1.88	0.54
1:je:201:ILE:HD12	1:je:218:CYS:SG	2.47	0.54
1:jG:68:MET:HE1	1:jG:140:LYS:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a3:77:ALA:HA	1:a3:133:TRP:CH2	2.42	0.54
1:bq:39:MET:HB2	1:bv:58:THR:HG22	1.90	0.54
1:j5:86:VAL:HG23	1:j5:87:HIS:CD2	2.43	0.54
1:2X:58:THR:HG23	1:2Y:39:MET:SD	2.48	0.54
1:38:68:MET:HA	1:38:68:MET:HE3	1.89	0.54
1:5E:104:ILE:HG12	1:5E:126:VAL:HG12	1.89	0.54
1:74:68:MET:HE1	1:75:212:GLU:HA	1.89	0.54
1:cY:47:ALA:HB1	1:cY:51:ASP:HB2	1.89	0.54
1:eK:181:VAL:HG12	1:eK:185:MET:HE3	1.88	0.54
1:gu:139:ASN:HB3	1:gu:176:GLN:HE22	1.71	0.54
1:hT:165:VAL:HG22	1:hT:190:LEU:HD11	1.89	0.54
1:i4:181:VAL:HG12	1:i4:185:MET:HE3	1.90	0.54
1:iE:13:GLN:HA	1:iE:13:GLN:HE21	1.72	0.54
1:iT:143:ARG:HH12	1:iT:175:GLU:CD	2.16	0.54
1:jY:153:ILE:HD12	1:jY:167:ARG:HB3	1.88	0.54
1:3g:167:ARG:HH22	1:3g:231:LEU:C	2.14	0.54
1:4G:181:VAL:HG12	1:4G:185:MET:HE3	1.90	0.54
1:5i:83:LEU:HD23	1:5i:84:HIS:CE1	2.42	0.54
1:8h:6:LEU:HG	1:8h:7:GLN:H	1.73	0.54
1:do:2:ILE:HG23	1:do:12:HIS:CE1	2.42	0.54
1:V:20:LEU:O	1:V:24:VAL:HG23	2.08	0.54
1:go:11:VAL:HG11	1:gp:6:LEU:HA	1.88	0.54
1:2p:211:LEU:HG	1:2p:215:MET:HE2	1.90	0.54
1:2S:80:TRP:CZ2	1:2S:84:HIS:HE1	2.26	0.54
1:5W:23:TRP:HE1	1:5W:59:VAL:HG23	1.73	0.54
1:7I:67:GLN:HE21	1:7I:71:GLU:HG2	1.73	0.54
1:8V:20:LEU:HB2	1:8W:39:MET:SD	2.48	0.54
1:b0:97:ARG:HH22	1:b0:103:ASP:CG	2.16	0.54
1:1v:1:PRO:HA	1:1v:46:GLY:O	2.08	0.54
1:jX:73:ILE:HD11	1:jX:134:ILE:HG12	1.90	0.54
1:kl:168:PHE:CE2	1:kl:172:LEU:HD11	2.43	0.54
1:kV:84:HIS:CG	1:kV:87:HIS:CE1	2.96	0.54
1:5w:181:VAL:CG1	1:5w:185:MET:HE3	2.38	0.54
1:7x:81:ASP:CG	1:7x:100:ARG:HH21	2.16	0.54
1:7P:191:VAL:HG22	1:7P:202:LEU:HD13	1.90	0.54
1:8I:37:ILE:HD12	1:8I:135:ILE:HG23	1.89	0.54
1:cB:59:VAL:HG21	1:cB:66:MET:HE3	1.90	0.54
1:fc:42:ALA:HB2	1:fh:54:THR:CG2	2.38	0.54
1:G:120:HIS:CG	1:G:121:ASN:N	2.76	0.54
1:4:33:SER:O	1:4:36:VAL:HG12	2.08	0.54
1:h3:10:MET:HE3	1:h3:119:THR:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jh:159:GLU:CD	1:jh:167:ARG:HH22	2.15	0.54
1:4n:80:TRP:CZ2	1:4n:84:HIS:CE1	2.96	0.54
1:4z:20:LEU:O	1:4z:24:VAL:HG23	2.08	0.54
1:60:37:ILE:H	1:60:37:ILE:HD12	1.73	0.54
1:eG:120:HIS:CG	1:eG:121:ASN:H	2.26	0.54
1:ge:146:SER:HB3	1:ge:174:ALA:HB1	1.90	0.53
1:hO:212:GLU:HB2	1:hT:68:MET:HE1	1.90	0.53
1:il:78:ALA:O	1:il:81:ASP:HB2	2.08	0.53
1:kU:7:GLN:HE22	1:kZ:11:VAL:HG12	1.73	0.53
1:4i:214:MET:HE2	1:4i:214:MET:HA	1.90	0.53
1:8n:87:HIS:CG	1:8n:88:ALA:N	2.75	0.53
1:9d:155:GLN:HA	1:9d:164:TYR:CD2	2.43	0.53
1:b0:120:HIS:CG	1:b0:121:ASN:H	2.26	0.53
1:g8:26:VAL:HG13	1:g8:39:MET:HE3	1.90	0.53
1:ga:3:VAL:HG12	1:ga:4:GLN:H	1.73	0.53
1:if:77:ALA:HB2	1:if:133:TRP:CZ3	2.43	0.53
1:ju:124:ILE:HD12	1:ju:124:ILE:H	1.73	0.53
1:6y:96:MET:HE2	1:6y:116:GLY:O	2.08	0.53
1:7p:4:GLN:HE22	1:7p:10:MET:HG2	1.73	0.53
1:1l:117:TRP:CD1	1:1l:124:ILE:HD12	2.43	0.53
1:fA:6:LEU:HD12	1:fF:12:HIS:HB2	1.89	0.53
1:hb:80:TRP:CE2	1:hb:84:HIS:CE1	2.96	0.53
1:iQ:146:SER:HB2	1:iQ:174:ALA:HB1	1.90	0.53
1:jj:44:SER:HA	1:jj:55:MET:HE1	1.90	0.53
1:67:66:MET:HE2	1:67:66:MET:HA	1.91	0.53
1:9Y:196:PRO:HA	1:9Y:199:LYS:HB3	1.91	0.53
1:x:150:ILE:O	1:x:153:ILE:HG22	2.09	0.53
1:hG:80:TRP:CH2	1:hG:84:HIS:HE1	2.27	0.53
1:jB:181:VAL:HA	1:14:181:VAL:HG22	1.91	0.53
1:kq:67:GLN:HG2	1:kr:169:TYR:CG	2.44	0.53
1:kX:138:LEU:HA	1:kX:141:ILE:HD12	1.91	0.53
1:2l:73:ILE:HD11	1:2l:134:ILE:HG12	1.90	0.53
1:6t:91:ILE:HD12	1:6t:92:GLU:H	1.72	0.53
1:bh:150:ILE:O	1:bh:153:ILE:HG22	2.08	0.53
1:cz:69:LEU:HD11	1:cz:134:ILE:HA	1.91	0.53
1:cC:40:PHE:CZ	1:cC:134:ILE:HG21	2.44	0.53
1:id:120:HIS:CG	1:id:121:ASN:N	2.77	0.53
1:jE:212:GLU:HA	1:jJ:68:MET:HE1	1.91	0.53
1:2t:204:ALA:HB1	1:4F:201:ILE:HG23	1.91	0.53
1:7v:73:ILE:HD11	1:7v:134:ILE:HG13	1.89	0.53
1:ai:11:VAL:HG21	1:aj:6:LEU:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:37:ILE:H	1:P:37:ILE:HD12	1.74	0.53
1:1E:26:VAL:HG21	1:1E:39:MET:HG3	1.91	0.53
1:3o:163:ASP:CG	1:3o:229:ARG:HH21	2.17	0.53
1:bV:96:MET:HE2	1:bV:96:MET:HA	1.90	0.53
1:cd:3:VAL:HG21	1:cd:11:VAL:HG12	1.91	0.53
1:cx:20:LEU:O	1:cx:24:VAL:HG23	2.08	0.53
1:fY:68:MET:HE1	1:fZ:212:GLU:HB3	1.90	0.53
1:6f:164:TYR:CZ	1:6f:190:LEU:HD12	2.43	0.53
1:6G:62:HIS:HE1	1:6G:64:ALA:HB3	1.74	0.53
1:at:181:VAL:HG12	1:at:185:MET:HE3	1.89	0.53
1:cC:138:LEU:HA	1:cC:141:ILE:HG12	1.89	0.53
1:l0:12:HIS:CE1	1:l0:115:ILE:HD13	2.44	0.53
1:le:165:VAL:HG22	1:le:190:LEU:HD11	1.90	0.53
1:4I:184:TRP:CZ2	1:4I:188:THR:HG21	2.44	0.53
1:6u:153:ILE:HG21	1:6u:168:PHE:CD1	2.44	0.53
1:8b:144:MET:HE2	1:8c:215:MET:HE3	1.91	0.53
1:9N:143:ARG:HH21	1:9N:175:GLU:CD	2.16	0.53
1:bw:181:VAL:HG12	1:bw:185:MET:HE3	1.89	0.53
1:c8:209:ALA:HB3	1:c8:214:MET:HE2	1.91	0.53
1:ed:24:VAL:HG13	1:ed:59:VAL:HA	1.91	0.53
1:jy:6:LEU:HA	1:jy:10:MET:HE1	1.90	0.53
1:3J:147:PRO:O	1:3J:148:THR:HB	2.09	0.53
1:8g:2:ILE:HD12	1:8g:115:ILE:HD11	1.91	0.53
1:dA:163:ASP:CG	1:dA:167:ARG:HH12	2.16	0.53
1:eW:205:LEU:HD11	1:eW:217:ALA:HB2	1.91	0.53
1:hQ:115:ILE:HG21	1:hR:7:GLN:HE22	1.73	0.53
1:ie:205:LEU:HD22	1:ie:213:GLU:HB3	1.91	0.53
1:ii:215:MET:HE1	1:in:64:ALA:HB1	1.90	0.53
1:ji:120:HIS:CG	1:ji:121:ASN:H	2.27	0.53
1:jn:150:ILE:HD11	1:jn:168:PHE:CD1	2.43	0.53
1:4J:165:VAL:HG11	1:4J:215:MET:HE1	1.91	0.53
1:5S:48:THR:HG22	1:5S:118:MET:HE1	1.90	0.53
1:6r:150:ILE:HD11	1:6r:168:PHE:CD1	2.44	0.53
1:8p:165:VAL:HG22	1:8p:190:LEU:HD11	1.91	0.53
1:9o:68:MET:HE1	1:9o:144:MET:HG2	1.91	0.53
1:cp:36:VAL:HG13	1:cp:37:ILE:HG13	1.91	0.53
1:1g:57:ASN:HB3	1:1h:38:PRO:HG3	1.90	0.53
1:ej:214:MET:O	1:ej:217:ALA:HB3	2.09	0.53
1:jt:40:PHE:CZ	1:jt:134:ILE:HG21	2.44	0.52
1:jT:97:ARG:HE	1:jT:113:GLU:CD	2.16	0.52
1:kw:12:HIS:CE1	1:kw:13:GLN:O	2.62	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2d:181:VAL:HG13	1:2d:185:MET:HE3	1.91	0.52
1:7v:73:ILE:HD11	1:7v:134:ILE:CG1	2.39	0.52
1:7L:65:ALA:HB1	1:7L:141:ILE:HD12	1.91	0.52
1:7P:117:TRP:CE3	1:7P:126:VAL:HG11	2.44	0.52
1:8c:68:MET:HE3	1:8c:140:LYS:HB3	1.91	0.52
1:aK:117:TRP:CE3	1:aK:126:VAL:HG21	2.44	0.52
1:iZ:52:LEU:HD23	1:iZ:55:MET:HE2	1.92	0.52
1:kQ:161:PHE:CZ	1:kQ:202:LEU:HD11	2.44	0.52
1:l6:12:HIS:CD2	1:l6:111:LEU:HD21	2.43	0.52
1:2i:144:MET:HE1	1:2j:216:THR:CG2	2.39	0.52
1:7B:191:VAL:HG22	1:7B:202:LEU:HD13	1.91	0.52
1:7U:3:VAL:HG22	1:7U:4:GLN:H	1.75	0.52
1:7W:161:PHE:CE2	1:7W:202:LEU:HD11	2.44	0.52
1:8Y:199:LYS:HA	1:8Y:202:LEU:HB2	1.91	0.52
1:a9:95:GLN:O	1:a9:120:HIS:HE1	1.92	0.52
1:aN:231:LEU:C	1:aQ:229:ARG:HH22	2.17	0.52
1:aS:143:ARG:HH12	1:aS:175:GLU:CD	2.16	0.52
1:fl:10:MET:HE1	1:fl:116:GLY:HA2	1.92	0.52
1:gw:68:MET:HE1	1:gw:144:MET:HG3	1.89	0.52
1:iK:181:VAL:HG12	1:iK:185:MET:HE3	1.91	0.52
1:4c:91:ILE:HD11	1:4c:95:GLN:HG2	1.90	0.52
1:54:51:ASP:HB3	1:54:55:MET:HE2	1.92	0.52
1:63:181:VAL:HG12	1:63:185:MET:HE3	1.91	0.52
1:6g:47:ALA:HB1	1:6g:51:ASP:HB2	1.91	0.52
1:74:191:VAL:HG22	1:74:202:LEU:HB3	1.92	0.52
1:7h:144:MET:HE3	1:7h:145:TYR:CZ	2.45	0.52
1:a2:195:ASN:HD21	1:a2:221:VAL:HG11	1.75	0.52
1:as:6:LEU:HD12	1:ax:12:HIS:CE1	2.44	0.52
1:bn:159:GLU:CD	1:bn:167:ARG:HH22	2.18	0.52
1:ec:11:VAL:HG12	1:ed:4:GLN:HB3	1.90	0.52
1:fL:226:HIS:CG	1:fL:227:LYS:N	2.77	0.52
1:Q:70:LYS:HA	1:Q:73:ILE:HD12	1.90	0.52
1:Q:120:HIS:CG	1:Q:121:ASN:H	2.27	0.52
1:gx:165:VAL:HA	1:gx:168:PHE:HB3	1.91	0.52
1:gV:187:GLU:O	1:gV:188:THR:HB	2.09	0.52
1:hB:112:GLN:HA	1:hB:115:ILE:HG22	1.92	0.52
1:4S:104:ILE:CD1	1:4S:126:VAL:HG12	2.40	0.52
1:5b:161:PHE:O	1:5b:165:VAL:HG23	2.10	0.52
1:fu:40:PHE:CE2	1:fu:134:ILE:HG21	2.45	0.52
1:fu:80:TRP:CZ2	1:fu:84:HIS:CE1	2.97	0.52
1:h6:70:LYS:HA	1:h6:73:ILE:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:he:218:CYS:HB3	1:he:226:HIS:CG	2.44	0.52
1:lk:83:LEU:HD23	1:lk:84:HIS:CE1	2.44	0.52
1:lQ:80:TRP:CZ2	1:lQ:84:HIS:CE1	2.97	0.52
1:4M:81:ASP:CG	1:4M:101:GLY:H	2.17	0.52
1:6s:201:ILE:HD12	1:6s:201:ILE:H	1.74	0.52
1:aW:49:PRO:HG3	1:aW:127:GLY:HA2	1.91	0.52
1:m:24:VAL:HG22	1:m:59:VAL:CG1	2.40	0.52
1:hN:80:TRP:CZ3	1:hN:84:HIS:HE1	2.28	0.52
1:hO:229:ARG:HH21	1:hP:231:LEU:C	2.17	0.52
1:i6:80:TRP:CE2	1:i6:104:ILE:HD11	2.44	0.52
1:iJ:37:ILE:H	1:iJ:37:ILE:HD12	1.74	0.52
1:2D:20:LEU:O	1:2D:24:VAL:HG23	2.08	0.52
1:3k:50:GLN:NE2	1:3k:114:GLN:HE22	2.07	0.52
1:b0:86:VAL:HG12	1:b0:98:GLU:HB2	1.91	0.52
1:c3:200:THR:HA	1:cZ:230:VAL:HG22	1.92	0.52
1:dN:138:LEU:HD23	1:dN:141:ILE:HD12	1.92	0.52
1:eg:2:ILE:HD13	1:eg:12:HIS:HA	1.92	0.52
1:jZ:153:ILE:HG23	1:jZ:193:ASN:HD22	1.74	0.52
1:8z:69:LEU:HD11	1:8z:134:ILE:HG23	1.90	0.52
1:9u:215:MET:HE1	1:9z:65:ALA:HA	1.92	0.52
1:d7:150:ILE:HD11	1:d7:168:PHE:CZ	2.45	0.52
1:dj:12:HIS:CD2	1:dj:111:LEU:HD21	2.45	0.52
1:dN:163:ASP:HA	1:dN:229:ARG:HH22	1.73	0.52
1:eA:210:THR:HG23	1:eA:213:GLU:HG3	1.91	0.52
1:eB:97:ARG:HH21	1:eB:113:GLU:CD	2.16	0.52
1:N:205:LEU:HD13	1:N:214:MET:HA	1.92	0.52
1:hr:104:ILE:HG12	1:hr:126:VAL:HG12	1.91	0.52
1:iE:191:VAL:O	1:iE:194:ALA:HB3	2.10	0.52
1:k1:120:HIS:CG	1:k1:121:ASN:N	2.77	0.52
1:kN:163:ASP:CG	1:kN:229:ARG:HH21	2.18	0.52
1:lr:199:LYS:HA	1:lr:202:LEU:HD12	1.92	0.52
1:lN:150:ILE:O	1:lN:185:MET:HE1	2.10	0.52
1:3x:191:VAL:HG23	1:3x:202:LEU:HD13	1.92	0.52
1:4U:175:GLU:HG3	1:4U:177:ALA:H	1.75	0.52
1:ay:104:ILE:HD13	1:ay:126:VAL:HG12	1.91	0.52
1:bg:5:ASN:HD21	1:bg:11:VAL:CG1	2.21	0.52
1:bu:96:MET:HE2	1:bu:96:MET:HA	1.91	0.52
1:bD:12:HIS:CD2	1:bD:115:ILE:HD11	2.45	0.52
1:bO:12:HIS:CE1	1:bO:111:LEU:HD21	2.45	0.52
1:cb:186:THR:HA	1:cb:190:LEU:HD12	1.91	0.52
1:el:153:ILE:HG22	1:el:167:ARG:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fu:96:MET:HE1	1:fu:120:HIS:CD2	2.45	0.52
1:f:124:ILE:HG22	1:f:126:VAL:HG13	1.91	0.52
1:gE:119:THR:HG22	1:gE:119:THR:O	2.09	0.52
1:1H:199:LYS:HA	1:1H:202:LEU:HD12	1.92	0.52
1:iu:115:ILE:HA	1:iu:118:MET:HE3	1.92	0.52
1:l8:138:LEU:O	1:l8:142:VAL:HG23	2.10	0.52
1:2x:13:GLN:HA	1:2x:13:GLN:HE21	1.74	0.52
1:3e:104:ILE:HG12	1:3e:126:VAL:HG12	1.90	0.52
1:5d:104:ILE:HG21	1:5d:133:TRP:CH2	2.45	0.52
1:7j:81:ASP:CG	1:7j:100:ARG:HE	2.18	0.52
1:8N:19:THR:HG23	1:8N:43:LEU:HB3	1.92	0.52
1:93:181:VAL:HA	1:aK:181:VAL:HG22	1.90	0.52
1:9r:19:THR:HG23	1:9r:43:LEU:HB3	1.91	0.52
1:bw:218:CYS:HB2	1:bw:226:HIS:CE1	2.45	0.52
1:1z:229:ARG:HH21	1:1z:231:LEU:C	2.18	0.52
1:gT:162:ARG:HH12	1:gT:231:LEU:C	2.18	0.52
1:gW:12:HIS:CE1	1:gW:111:LEU:HD21	2.45	0.52
1:1T:40:PHE:CZ	1:1T:134:ILE:HG21	2.45	0.52
1:kO:175:GLU:HG3	1:kO:177:ALA:H	1.75	0.52
1:3y:130:TYR:CE1	1:3y:134:ILE:HD11	2.45	0.52
1:3C:226:HIS:CG	1:3C:226:HIS:O	2.62	0.52
1:3X:153:ILE:HD11	1:3X:167:ARG:HB3	1.92	0.52
1:5O:38:PRO:HB2	1:5T:58:THR:HA	1.92	0.52
1:8j:12:HIS:CE1	1:8j:14:ALA:HA	2.45	0.52
1:8t:6:LEU:H	1:8t:6:LEU:HD22	1.74	0.52
1:cT:25:LYS:HZ1	1:cU:29:GLU:CD	2.18	0.52
1:da:190:LEU:HD21	1:da:215:MET:HE1	1.92	0.52
1:gs:172:LEU:HD11	1:gs:182:LYS:HG2	1.92	0.51
1:1E:180:GLU:CD	1:1E:180:GLU:H	2.17	0.51
1:hG:76:GLU:HB3	1:hG:133:TRP:CD2	2.45	0.51
1:i9:81:ASP:CG	1:i9:100:ARG:HH21	2.18	0.51
1:iR:104:ILE:HD13	1:iR:126:VAL:HG12	1.92	0.51
1:iW:184:TRP:CZ2	1:iW:188:THR:HG21	2.45	0.51
1:jn:159:GLU:CD	1:jn:167:ARG:HH12	2.17	0.51
1:kg:231:LEU:N	1:kk:200:THR:HG23	2.22	0.51
1:9I:175:GLU:HG3	1:9I:177:ALA:H	1.75	0.51
1:17:2:ILE:HD13	1:17:115:ILE:HG23	1.90	0.51
1:bn:3:VAL:HG11	1:bn:6:LEU:HB3	1.91	0.51
1:cM:27:VAL:HG11	1:cM:59:VAL:HG13	1.91	0.51
1:1l:83:LEU:HD23	1:1l:84:HIS:CE1	2.45	0.51
1:hf:151:LEU:HD21	1:fm:189:LEU:HD11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jI:120:HIS:CG	1:jI:121:ASN:H	2.29	0.51
1:2s:80:TRP:CE2	1:2s:104:ILE:HD11	2.44	0.51
1:33:215:MET:HA	1:33:215:MET:HE2	1.92	0.51
1:49:184:TRP:CZ2	1:49:189:LEU:HD13	2.45	0.51
1:4p:96:MET:HE3	1:4p:113:GLU:HA	1.92	0.51
1:4B:172:LEU:HD11	1:4B:182:LYS:HG2	1.92	0.51
1:4O:120:HIS:HB3	1:4O:123:PRO:HA	1.92	0.51
1:8x:69:LEU:O	1:8x:73:ILE:HD13	2.09	0.51
1:8O:105:ALA:HA	1:8O:130:TYR:CE2	2.44	0.51
1:9J:37:ILE:HB	1:9J:38:PRO:HD3	1.93	0.51
1:az:23:TRP:HA	1:az:26:VAL:HG22	1.92	0.51
1:ev:31:ALA:HA	1:ev:62:HIS:CE1	2.44	0.51
1:eQ:64:ALA:HB1	1:eR:215:MET:HE1	1.91	0.51
1:fo:12:HIS:CG	1:fo:115:ILE:HD13	2.45	0.51
1:hS:138:LEU:HA	1:hS:141:ILE:HD12	1.92	0.51
1:jR:87:HIS:CE1	1:jR:96:MET:HB2	2.46	0.51
1:lN:153:ILE:HD13	1:lN:171:THR:HG21	1.93	0.51
1:2t:181:VAL:HA	1:4E:181:VAL:HG22	1.91	0.51
1:2W:77:ALA:HB1	1:2W:101:GLY:HA3	1.93	0.51
1:38:164:TYR:CE2	1:38:190:LEU:HD12	2.45	0.51
1:6I:121:ASN:HA	1:6I:122:PRO:C	2.35	0.51
1:9m:83:LEU:HD23	1:9m:84:HIS:CE1	2.44	0.51
1:ca:163:ASP:CG	1:ca:167:ARG:HH21	2.18	0.51
1:dw:15:ILE:HD11	1:dw:19:THR:HG21	1.93	0.51
1:dQ:205:LEU:HD22	1:dQ:213:GLU:HB3	1.92	0.51
1:U:86:VAL:HG13	1:U:98:GLU:HG3	1.93	0.51
1:hx:68:MET:HA	1:hx:68:MET:HE3	1.92	0.51
1:j4:93:PRO:HA	1:j4:113:GLU:OE1	2.11	0.51
1:jo:150:ILE:HG21	1:jo:185:MET:HE1	1.92	0.51
1:kc:175:GLU:HG3	1:kc:177:ALA:H	1.74	0.51
1:2S:80:TRP:CZ2	1:2S:84:HIS:CE1	2.99	0.51
1:3J:154:ARG:HA	1:3J:193:ASN:HB3	1.93	0.51
1:4M:86:VAL:HG23	1:4M:87:HIS:CD2	2.46	0.51
1:5E:26:VAL:HG21	1:5E:39:MET:HE1	1.92	0.51
1:8k:6:LEU:HD12	1:8p:12:HIS:CD2	2.45	0.51
1:8n:161:PHE:CE1	1:8n:202:LEU:HD11	2.45	0.51
1:ir:181:VAL:HG22	1:kC:181:VAL:HG22	1.92	0.51
1:k7:37:ILE:HD12	1:k7:37:ILE:N	2.25	0.51
1:l6:138:LEU:HD23	1:l6:141:ILE:HD12	1.92	0.51
1:9h:120:HIS:CG	1:9h:121:ASN:H	2.28	0.51
1:b1:47:ALA:HB1	1:b1:51:ASP:HB2	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ba:63:GLN:HG3	1:bb:170:LYS:HG2	1.92	0.51
1:bK:27:VAL:HA	1:bK:31:ALA:HA	1.93	0.51
1:ci:215:MET:HE2	1:cn:68:MET:HE3	1.92	0.51
1:d8:226:HIS:CD2	1:d8:227:LYS:N	2.78	0.51
1:e9:26:VAL:HG11	1:e9:39:MET:HB3	1.93	0.51
1:ef:163:ASP:CG	1:ef:167:ARG:HH21	2.19	0.51
1:ez:12:HIS:CG	1:ez:115:ILE:HD11	2.46	0.51
1:eY:111:LEU:HD11	1:eY:115:ILE:HD11	1.92	0.51
1:fb:96:MET:HE1	1:fb:120:HIS:CD2	2.46	0.51
1:fq:209:ALA:CB	1:fq:214:MET:HE2	2.41	0.51
1:g2:138:LEU:O	1:g2:142:VAL:HG23	2.10	0.51
1:hk:29:GLU:HG3	1:hk:30:LYS:HG3	1.92	0.51
1:jn:1:PRO:H3	1:jn:51:ASP:CG	2.18	0.51
1:jy:189:LEU:HD21	1:n:151:LEU:HD12	1.92	0.51
1:2S:80:TRP:CE2	1:2S:84:HIS:CE1	2.99	0.51
1:58:124:ILE:H	1:58:124:ILE:HD12	1.75	0.51
1:64:153:ILE:HD12	1:64:168:PHE:CD1	2.45	0.51
1:6c:24:VAL:HG13	1:6d:39:MET:HE3	1.92	0.51
1:6s:29:GLU:CD	1:6s:30:LYS:HZ3	2.19	0.51
1:8S:181:VAL:HG13	1:at:181:VAL:HG22	1.93	0.51
1:a0:181:VAL:HG22	1:a9:181:VAL:HG22	1.93	0.51
1:dM:144:MET:HE3	1:dM:145:TYR:CZ	2.45	0.51
1:fc:77:ALA:HA	1:fc:133:TRP:CH2	2.45	0.51
1:1A:26:VAL:HG22	1:1A:36:VAL:HG12	1.92	0.51
1:g:72:THR:HG21	1:g:137:GLY:HA2	1.93	0.51
1:r:91:ILE:H	1:r:91:ILE:HD12	1.76	0.51
1:O:39:MET:HA	1:O:39:MET:HE3	1.92	0.51
1:he:12:HIS:CD2	1:he:115:ILE:HD11	2.46	0.51
1:hE:220:GLY:HA3	1:fQ:192:GLN:HE22	1.76	0.51
1:lg:153:ILE:HG23	1:lg:167:ARG:HE	1.76	0.51
1:ln:1:PRO:H3	1:ln:51:ASP:CG	2.18	0.51
1:5F:52:LEU:HD22	1:5F:134:ILE:HD12	1.92	0.51
1:77:138:LEU:O	1:77:142:VAL:HG13	2.11	0.51
1:9h:138:LEU:O	1:9h:142:VAL:HG23	2.10	0.51
1:9J:23:TRP:CZ3	1:9J:40:PHE:CD1	2.99	0.51
1:9S:184:TRP:HA	1:9S:187:GLU:HG2	1.93	0.51
1:9Y:67:GLN:HG2	1:9Z:169:TYR:CE1	2.46	0.51
1:bI:181:VAL:HG22	1:2:181:VAL:HG22	1.93	0.51
1:f7:211:LEU:HD11	1:f7:215:MET:HE2	1.92	0.51
1:fC:192:GLN:HE22	1:fL:151:LEU:CD1	2.24	0.51
1:x:161:PHE:CZ	1:x:202:LEU:HD21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gE:32:PHE:CZ	1:gE:62:HIS:HE1	2.28	0.51
1:hd:130:TYR:CZ	1:hd:134:ILE:HD11	2.45	0.51
1:iN:91:ILE:HD11	1:iN:95:GLN:HB2	1.93	0.51
1:iO:77:ALA:HB2	1:iO:133:TRP:CZ3	2.46	0.51
1:jZ:151:LEU:HD22	1:1m:151:LEU:HD22	1.92	0.51
1:3A:150:ILE:HD11	1:3A:168:PHE:CZ	2.46	0.51
1:6j:162:ARG:HH12	1:6j:166:ASP:CG	2.19	0.51
1:8r:172:LEU:CD2	1:8r:177:ALA:HB3	2.41	0.51
1:8v:80:TRP:CZ3	1:8v:84:HIS:HE1	2.29	0.51
1:aT:97:ARG:HH21	1:aT:113:GLU:CD	2.18	0.51
1:bs:163:ASP:CG	1:bs:167:ARG:HH21	2.18	0.51
1:bB:1:PRO:O	1:bB:12:HIS:CD2	2.64	0.51
1:fN:80:TRP:CH2	1:fN:129:ILE:HG21	2.45	0.51
1:hl:124:ILE:HD12	1:hl:124:ILE:H	1.74	0.51
1:hs:120:HIS:CG	1:hs:121:ASN:N	2.78	0.51
1:hM:80:TRP:CE2	1:hM:84:HIS:HE1	2.29	0.51
1:ik:6:LEU:HD23	1:ik:6:LEU:H	1.76	0.51
1:jq:83:LEU:HD23	1:jq:84:HIS:CE1	2.46	0.51
1:jM:83:LEU:HD23	1:jM:84:HIS:CE1	2.46	0.51
1:21:222:GLY:H	1:21:226:HIS:CD2	2.29	0.51
1:39:211:LEU:HD11	1:39:215:MET:HE3	1.92	0.51
1:86:151:LEU:HD22	1:9Z:189:LEU:HD21	1.93	0.51
1:b5:1:PRO:HA	1:b5:46:GLY:O	2.11	0.51
1:be:163:ASP:CG	1:be:229:ARG:HH12	2.18	0.51
1:dx:31:ALA:CB	1:dx:62:HIS:CE1	2.94	0.51
1:dX:33:SER:HB2	1:dX:34:PRO:HD2	1.93	0.51
1:eu:120:HIS:CG	1:eu:121:ASN:H	2.29	0.51
1:f7:120:HIS:CE1	1:f7:121:ASN:O	2.64	0.51
1:fq:20:LEU:HD21	1:fr:42:ALA:HB1	1.92	0.51
1:Q:17:PRO:HA	1:Q:20:LEU:HD12	1.92	0.51
1:gP:83:LEU:HD23	1:gP:84:HIS:CE1	2.46	0.51
1:gX:150:ILE:HD11	1:gX:168:PHE:CD2	2.45	0.51
1:i1:69:LEU:HD13	1:i1:137:GLY:HA3	1.93	0.51
1:ib:104:ILE:HD13	1:ib:126:VAL:HG12	1.92	0.51
1:is:64:ALA:HA	1:it:165:VAL:HG11	1.93	0.51
1:ju:225:GLY:C	1:ju:226:HIS:CD2	2.89	0.51
1:21:70:LYS:HA	1:21:73:ILE:HG12	1.93	0.51
1:23:211:LEU:H	1:23:211:LEU:HD12	1.76	0.51
1:l3:185:MET:HE2	1:l3:189:LEU:HD22	1.93	0.51
1:lF:205:LEU:HD23	1:3d:204:ALA:HA	1.93	0.51
1:2t:146:SER:HA	1:2u:226:HIS:CD2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3h:71:GLU:HA	1:3h:71:GLU:OE2	2.11	0.51
1:3l:19:THR:HG23	1:3l:43:LEU:HD22	1.93	0.51
1:6I:161:PHE:O	1:6I:165:VAL:HG23	2.11	0.51
1:7T:40:PHE:CE2	1:7T:134:ILE:HG21	2.46	0.51
1:7Y:117:TRP:CE3	1:7Y:126:VAL:HG11	2.46	0.51
1:an:68:MET:HE2	1:an:140:LYS:HB3	1.93	0.51
1:1h:138:LEU:HA	1:1h:141:ILE:HD12	1.92	0.51
1:x:144:MET:HE2	1:x:144:MET:HA	1.93	0.51
1:gC:2:ILE:HG22	1:gC:9:GLN:HB3	1.93	0.50
1:hs:63:GLN:HB3	1:ht:169:TYR:HB3	1.94	0.50
1:id:31:ALA:O	1:id:36:VAL:HG21	2.11	0.50
1:jc:39:MET:HA	1:jc:39:MET:HE2	1.93	0.50
1:kU:83:LEU:HD23	1:kU:84:HIS:CE1	2.46	0.50
1:5i:119:THR:HG21	1:5j:5:ASN:HB3	1.91	0.50
1:8l:95:GLN:HB3	1:8l:120:HIS:CD2	2.47	0.50
1:8E:150:ILE:HD13	1:8E:185:MET:HE2	1.93	0.50
1:ay:87:HIS:CE1	1:ay:91:ILE:HD11	2.46	0.50
1:bn:48:THR:HG22	1:bn:118:MET:HE1	1.91	0.50
1:bO:87:HIS:CE1	1:bO:97:ARG:HH11	2.30	0.50
1:c4:37:ILE:HD11	1:c4:138:LEU:HB3	1.93	0.50
1:1G:211:LEU:HD12	1:1G:215:MET:HG2	1.93	0.50
1:im:79:GLU:CD	1:im:82:ARG:HH21	2.19	0.50
1:1U:23:TRP:HB2	1:1U:43:LEU:HD13	1.92	0.50
1:k1:27:VAL:HG11	1:k1:59:VAL:HG11	1.92	0.50
1:lc:223:GLY:HA2	1:lc:230:VAL:HG13	1.93	0.50
1:45:191:VAL:HG23	1:45:202:LEU:HD23	1.93	0.50
1:4c:20:LEU:CD2	1:4c:55:MET:HA	2.41	0.50
1:7K:191:VAL:HB	1:7K:202:LEU:HD13	1.92	0.50
1:7S:20:LEU:HD11	1:7T:42:ALA:HB1	1.92	0.50
1:7X:73:ILE:HD11	1:7X:134:ILE:HA	1.93	0.50
1:ai:158:LYS:O	1:ai:222:GLY:HA2	2.11	0.50
1:aO:84:HIS:CD2	1:aO:86:VAL:CG2	2.94	0.50
1:1g:72:THR:HG21	1:1g:137:GLY:HA2	1.93	0.50
1:fU:1:PRO:H3	1:fU:51:ASP:CG	2.19	0.50
1:hu:118:MET:HE2	1:hu:125:PRO:HA	1.93	0.50
1:lE:31:ALA:HB2	1:lE:62:HIS:CE1	2.46	0.50
1:lO:156:GLY:H	1:lO:159:GLU:CD	2.18	0.50
1:3l:150:ILE:HD11	1:3l:168:PHE:CD1	2.46	0.50
1:5r:66:MET:SD	1:5r:69:LEU:HD13	2.51	0.50
1:7U:138:LEU:O	1:7U:142:VAL:HG23	2.10	0.50
1:85:151:LEU:HD21	1:a4:189:LEU:HD22	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a1:2:ILE:HD13	1:a1:10:MET:HE2	1.92	0.50
1:aA:13:GLN:HA	1:aA:13:GLN:HE21	1.77	0.50
1:aN:26:VAL:HG21	1:aN:39:MET:HE3	1.93	0.50
1:bZ:162:ARG:HG3	1:bZ:226:HIS:CD2	2.47	0.50
1:cd:80:TRP:CE2	1:cd:84:HIS:CE1	2.99	0.50
1:1k:12:HIS:CE1	1:1k:111:LEU:HD21	2.47	0.50
1:dv:63:GLN:HG3	1:dw:170:LYS:HA	1.93	0.50
1:eJ:229:ARG:HH21	1:eJ:231:LEU:C	2.19	0.50
1:T:57:ASN:HA	1:T:66:MET:HE1	1.93	0.50
1:1L:153:ILE:H	1:1L:153:ILE:HD12	1.75	0.50
1:io:56:LEU:HD22	1:io:69:LEU:HD21	1.93	0.50
1:jD:26:VAL:CG1	1:jD:36:VAL:HG13	2.41	0.50
1:1Z:165:VAL:HG22	1:1Z:190:LEU:HD11	1.93	0.50
1:kk:10:MET:HB3	1:kk:119:THR:HG22	1.94	0.50
1:kp:120:HIS:CG	1:kp:121:ASN:H	2.29	0.50
1:kU:80:TRP:CE2	1:kU:84:HIS:CE1	3.00	0.50
1:l1:2:ILE:HD12	1:l1:2:ILE:O	2.12	0.50
1:3k:150:ILE:HG21	1:3k:172:LEU:HD11	1.94	0.50
1:3G:6:LEU:H	1:3G:6:LEU:HD22	1.77	0.50
1:4x:124:ILE:HG22	1:4x:126:VAL:HG13	1.93	0.50
1:57:34:PRO:HG3	1:57:174:ALA:HB2	1.93	0.50
1:8A:104:ILE:HG21	1:8A:133:TRP:CH2	2.46	0.50
1:dA:64:ALA:HB2	1:dB:165:VAL:HG12	1.93	0.50
1:g2:17:PRO:HG2	1:g3:43:LEU:HD23	1.92	0.50
1:1C:87:HIS:CE1	1:1C:98:GLU:H	2.30	0.50
1:1F:64:ALA:HB2	1:1G:166:ASP:HA	1.93	0.50
1:hR:143:ARG:HH12	1:hR:175:GLU:CD	2.20	0.50
1:2P:80:TRP:CZ2	1:2P:84:HIS:CE1	3.00	0.50
1:3G:184:TRP:CZ2	1:3G:188:THR:HG21	2.46	0.50
1:4m:47:ALA:O	1:4m:118:MET:HE1	2.12	0.50
1:5G:27:VAL:HG13	1:5G:32:PHE:CZ	2.46	0.50
1:7H:120:HIS:CG	1:7H:121:ASN:N	2.80	0.50
1:8Y:12:HIS:CE1	1:8Z:10:MET:HE1	2.46	0.50
1:95:163:ASP:CG	1:95:229:ARG:HH22	2.20	0.50
1:av:58:THR:O	1:av:58:THR:HG22	2.10	0.50
1:aT:26:VAL:HG12	1:aT:36:VAL:HG23	1.93	0.50
1:dY:154:ARG:C	1:dY:154:ARG:HD3	2.37	0.50
1:e8:151:LEU:HA	1:e8:189:LEU:HD11	1.93	0.50
1:1s:80:TRP:CZ3	1:1s:84:HIS:HE1	2.30	0.50
1:ft:25:LYS:HE2	1:ft:25:LYS:HA	1.94	0.50
1:hq:161:PHE:O	1:hq:165:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iF:155:GLN:HE22	1:iF:195:ASN:HB2	1.77	0.50
1:iU:2:ILE:HG13	1:iU:118:MET:HE2	1.94	0.50
1:jz:83:LEU:HD23	1:jz:84:HIS:CE1	2.47	0.50
1:65:160:PRO:HG2	1:65:226:HIS:CD2	2.47	0.50
1:9y:97:ARG:HH12	1:9y:103:ASP:CG	2.19	0.50
1:aB:154:ARG:HA	1:aB:193:ASN:HB3	1.94	0.50
1:aC:228:ALA:HB1	1:aC:230:VAL:HG22	1.93	0.50
1:bC:68:MET:HA	1:bC:68:MET:HE3	1.93	0.50
1:cf:80:TRP:CZ2	1:cf:84:HIS:CE1	3.00	0.50
1:cz:161:PHE:O	1:cz:165:VAL:HG23	2.12	0.50
1:1i:191:VAL:HG13	1:1i:202:LEU:HB2	1.93	0.50
1:gV:144:MET:HE3	1:gV:145:TYR:CZ	2.47	0.50
1:jN:181:VAL:HA	1:1a:181:VAL:HG22	1.94	0.50
1:3O:83:LEU:HD23	1:3O:84:HIS:CE1	2.47	0.50
1:3X:143:ARG:HH21	1:3X:175:GLU:CD	2.19	0.50
1:4l:113:GLU:HB3	1:4l:117:TRP:CH2	2.46	0.50
1:5P:2:ILE:HG13	1:5P:118:MET:HE2	1.93	0.50
1:6C:155:GLN:HG2	1:6C:193:ASN:HB3	1.94	0.50
1:7q:113:GLU:HG2	1:7q:117:TRP:CH2	2.45	0.50
1:9k:97:ARG:HE	1:9k:113:GLU:CD	2.18	0.50
1:9q:58:THR:HG21	1:9r:39:MET:HE2	1.93	0.50
1:9X:70:LYS:HA	1:9X:73:ILE:HG12	1.93	0.50
1:aN:37:ILE:HG23	1:aN:135:ILE:HG23	1.92	0.50
1:aX:80:TRP:CE2	1:aX:84:HIS:CE1	3.00	0.50
1:bA:94:GLY:H	1:bA:120:HIS:CD2	2.29	0.50
1:1a:145:TYR:CD1	1:1b:226:HIS:CD2	3.00	0.50
1:1m:185:MET:SD	1:1m:189:LEU:HD22	2.52	0.50
1:ej:161:PHE:CE1	1:ej:165:VAL:HG11	2.46	0.50
1:G:168:PHE:CE1	1:G:172:LEU:HD11	2.47	0.50
1:hM:97:ARG:HH22	1:hM:113:GLU:CD	2.19	0.50
1:j3:117:TRP:CD1	1:j3:124:ILE:HD12	2.47	0.50
1:l7:2:ILE:HD11	1:l7:118:MET:HE1	1.94	0.50
1:3z:37:ILE:HD12	1:3z:37:ILE:N	2.26	0.50
1:5B:27:VAL:HG11	1:5B:59:VAL:HG11	1.94	0.50
1:6b:3:VAL:HB	1:6b:11:VAL:HG23	1.93	0.50
1:9A:80:TRP:CE2	1:9A:84:HIS:CE1	3.00	0.50
1:14:165:VAL:HG22	1:14:190:LEU:HD11	1.93	0.50
1:bu:66:MET:HA	1:bu:66:MET:HE2	1.94	0.50
1:bK:131:LYS:HA	1:bK:134:ILE:HD12	1.93	0.50
1:cd:84:HIS:CG	1:cd:87:HIS:CE1	3.00	0.50
1:cU:27:VAL:O	1:cU:31:ALA:HA	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:dl:80:TRP:CZ3	1:dl:84:HIS:CE1	2.99	0.50
1:1m:76:GLU:HB3	1:1m:133:TRP:CE2	2.47	0.50
1:eM:68:MET:HE2	1:eM:144:MET:HE1	1.94	0.50
1:go:99:PRO:HB3	1:go:117:TRP:CH2	2.46	0.50
1:gw:32:PHE:CZ	1:gw:62:HIS:CD2	3.00	0.50
1:1M:50:GLN:HG2	1:1M:111:LEU:HD13	1.94	0.50
1:jv:150:ILE:HA	1:jv:153:ILE:HG12	1.93	0.50
1:kn:44:SER:HB2	1:kn:52:LEU:HD21	1.94	0.50
1:lv:37:ILE:HG23	1:lv:135:ILE:HG23	1.94	0.50
1:lK:172:LEU:CD2	1:lK:185:MET:HE3	2.41	0.50
1:4j:87:HIS:CD2	1:4j:91:ILE:HD13	2.47	0.50
1:5o:155:GLN:HG2	1:5o:164:TYR:CG	2.47	0.50
1:6t:161:PHE:CZ	1:6t:202:LEU:HD11	2.46	0.50
1:6E:80:TRP:CD1	1:6E:84:HIS:HD1	2.30	0.50
1:73:24:VAL:HG22	1:73:59:VAL:HG22	1.93	0.50
1:7m:215:MET:SD	1:7r:65:ALA:HA	2.52	0.50
1:7n:12:HIS:CD2	1:7n:115:ILE:HG13	2.47	0.50
1:93:181:VAL:CG1	1:93:185:MET:HE3	2.42	0.50
1:9a:64:ALA:HB2	1:9b:166:ASP:HA	1.94	0.50
1:au:124:ILE:CG2	1:au:126:VAL:HG13	2.42	0.50
1:bB:185:MET:HA	1:bB:189:LEU:HB2	1.93	0.50
1:fi:187:GLU:HA	1:fi:214:MET:HE1	1.94	0.50
1:h3:175:GLU:HG3	1:h3:177:ALA:H	1.76	0.49
1:ha:20:LEU:HD11	1:hb:42:ALA:HB1	1.94	0.49
1:hN:80:TRP:CH2	1:hN:84:HIS:HE1	2.30	0.49
1:i4:172:LEU:HD11	1:i4:182:LYS:HG2	1.94	0.49
1:ie:215:MET:HA	1:ie:215:MET:HE2	1.94	0.49
1:7a:69:LEU:HB2	1:7a:141:ILE:HD11	1.92	0.49
1:9J:138:LEU:HA	1:9J:141:ILE:HD12	1.94	0.49
1:cq:26:VAL:HG22	1:cq:36:VAL:HG12	1.94	0.49
1:dy:80:TRP:CE2	1:dy:84:HIS:CE1	3.00	0.49
1:eq:69:LEU:HD12	1:eq:137:GLY:HA3	1.94	0.49
1:f0:150:ILE:O	1:f0:153:ILE:HG22	2.12	0.49
1:f8:196:PRO:HG3	1:f8:226:HIS:CD2	2.47	0.49
1:fF:150:ILE:HG21	1:fF:177:ALA:HB2	1.94	0.49
1:f:87:HIS:CE1	1:f:91:ILE:HA	2.47	0.49
1:gj:19:THR:HG23	1:gj:43:LEU:HD22	1.94	0.49
1:kP:186:THR:HA	1:kP:190:LEU:HD12	1.95	0.49
1:kY:83:LEU:HB3	1:kY:84:HIS:CD2	2.47	0.49
1:4Z:57:ASN:HB3	1:50:38:PRO:HG2	1.94	0.49
1:8U:143:ARG:HH12	1:8U:175:GLU:CD	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:9B:162:ARG:HH12	1:9B:231:LEU:C	2.21	0.49
1:bd:31:ALA:HB2	1:bd:62:HIS:CD2	2.46	0.49
1:bL:138:LEU:HA	1:bL:141:ILE:HD12	1.94	0.49
1:cX:104:ILE:CD1	1:cX:126:VAL:HG13	2.41	0.49
1:fo:77:ALA:HB2	1:fo:133:TRP:CZ3	2.47	0.49
1:0:211:LEU:HD11	1:0:215:MET:HE2	1.94	0.49
1:q:143:ARG:HG2	1:q:174:ALA:O	2.11	0.49
1:L:1:PRO:H3	1:L:51:ASP:CG	2.20	0.49
1:gy:201:ILE:H	1:gy:201:ILE:HD12	1.77	0.49
1:he:80:TRP:CE2	1:he:104:ILE:HD11	2.47	0.49
1:hA:56:LEU:HD22	1:hA:66:MET:HE1	1.94	0.49
1:iG:27:VAL:HG11	1:iG:59:VAL:HG13	1.93	0.49
1:iM:69:LEU:HD23	1:iM:69:LEU:C	2.37	0.49
1:jq:91:ILE:HG13	1:jq:95:GLN:HB2	1.94	0.49
1:k5:3:VAL:HG22	1:k5:13:GLN:HG3	1.94	0.49
1:3Y:104:ILE:HD13	1:3Y:126:VAL:HG13	1.94	0.49
1:5O:162:ARG:HH12	1:5O:231:LEU:C	2.19	0.49
1:8w:73:ILE:HD11	1:8w:134:ILE:CG1	2.41	0.49
1:dO:114:GLN:HB3	1:dO:118:MET:HE3	1.94	0.49
1:eP:68:MET:HE1	1:eQ:212:GLU:HG3	1.93	0.49
1:eW:219:GLN:HA	1:eW:219:GLN:HE21	1.76	0.49
1:gq:70:LYS:HA	1:gq:73:ILE:HD12	1.93	0.49
1:gE:32:PHE:CZ	1:gE:62:HIS:CE1	3.01	0.49
1:1J:204:ALA:HB2	1:1B:204:ALA:HB1	1.95	0.49
1:ib:104:ILE:CD1	1:ib:126:VAL:HG12	2.42	0.49
1:jB:26:VAL:CG1	1:jB:36:VAL:HG22	2.42	0.49
1:jB:31:ALA:HA	1:jB:36:VAL:HG21	1.94	0.49
1:2g:206:GLY:C	1:2g:208:ALA:H	2.19	0.49
1:3x:181:VAL:HG12	1:3x:185:MET:HE3	1.93	0.49
1:4R:96:MET:HE2	1:4R:120:HIS:CG	2.47	0.49
1:4R:180:GLU:CD	1:51:143:ARG:HH22	2.19	0.49
1:57:5:ASN:HD21	1:57:11:VAL:HG12	1.78	0.49
1:5F:40:PHE:CZ	1:5F:134:ILE:HG21	2.47	0.49
1:6b:230:VAL:O	1:6b:230:VAL:HG12	2.11	0.49
1:81:205:LEU:HB3	1:81:214:MET:SD	2.52	0.49
1:9a:53:ASN:O	1:9a:57:ASN:HB2	2.13	0.49
1:9T:168:PHE:CZ	1:9T:172:LEU:HD11	2.48	0.49
1:cf:211:LEU:HD11	1:cf:215:MET:HE2	1.95	0.49
1:dt:63:GLN:OE1	1:dt:63:GLN:HA	2.12	0.49
1:1l:37:ILE:H	1:1l:37:ILE:HD12	1.76	0.49
1:hh:37:ILE:H	1:hh:37:ILE:HD12	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1J:184:TRP:NE1	1:1A:177:ALA:HA	2.27	0.49
1:lC:143:ARG:HH12	1:lC:175:GLU:CD	2.20	0.49
1:4o:210:THR:HG22	1:4o:213:GLU:HG3	1.94	0.49
1:4K:191:VAL:HG22	1:4K:202:LEU:HD13	1.94	0.49
1:5d:15:ILE:HD11	1:5d:19:THR:HG21	1.95	0.49
1:8l:87:HIS:CE1	1:8l:98:GLU:H	2.31	0.49
1:9x:222:GLY:H	1:9x:226:HIS:CD2	2.31	0.49
1:at:181:VAL:CG1	1:at:185:MET:HE3	2.42	0.49
1:c5:105:ALA:HA	1:c5:130:TYR:CD2	2.47	0.49
1:c9:164:TYR:CE2	1:c9:190:LEU:HD12	2.47	0.49
1:cj:13:GLN:HA	1:cj:13:GLN:HE21	1.77	0.49
1:cG:6:LEU:HD13	1:cL:115:ILE:HG13	1.93	0.49
1:cV:135:ILE:HA	1:cV:138:LEU:HD12	1.94	0.49
1:de:117:TRP:CE3	1:de:126:VAL:HG11	2.48	0.49
1:1n:65:ALA:HA	1:1o:215:MET:HE1	1.95	0.49
1:en:184:TRP:CZ2	1:en:188:THR:HG21	2.47	0.49
1:h6:211:LEU:HG	1:h6:215:MET:HE3	1.94	0.49
1:hZ:80:TRP:CE2	1:hZ:84:HIS:HE1	2.30	0.49
1:1Z:40:PHE:CE2	1:1Z:134:ILE:HG21	2.47	0.49
1:ku:37:ILE:H	1:ku:37:ILE:HD12	1.77	0.49
1:kv:104:ILE:HG12	1:kv:126:VAL:HG23	1.94	0.49
1:kS:181:VAL:HG12	1:kS:185:MET:HE3	1.94	0.49
1:ly:10:MET:SD	1:ly:115:ILE:HG22	2.52	0.49
1:2M:97:ARG:HH21	1:2M:113:GLU:CD	2.20	0.49
1:4a:150:ILE:HD11	1:4a:168:PHE:CE1	2.48	0.49
1:4y:202:LEU:HD11	1:4y:214:MET:HE2	1.94	0.49
1:5W:27:VAL:O	1:5W:31:ALA:HB2	2.12	0.49
1:aK:29:GLU:CD	1:aP:25:LYS:HZ1	2.21	0.49
1:b2:205:LEU:HB3	1:b2:209:ALA:HB2	1.94	0.49
1:b5:150:ILE:O	1:b5:153:ILE:HG22	2.12	0.49
1:bP:143:ARG:HE	1:bP:175:GLU:CD	2.21	0.49
1:bV:3:VAL:HG21	1:bV:13:GLN:HG3	1.95	0.49
1:ca:35:GLU:CD	1:ca:173:ARG:HH22	2.20	0.49
1:cl:117:TRP:CD1	1:cl:124:ILE:HD12	2.48	0.49
1:d8:2:ILE:HA	1:d8:12:HIS:HA	1.95	0.49
1:eW:80:TRP:CH2	1:eW:84:HIS:HE1	2.30	0.49
1:f7:150:ILE:HA	1:f7:171:THR:HG21	1.93	0.49
1:G:216:THR:HG22	1:H:144:MET:HE1	1.94	0.49
1:hW:12:HIS:HB3	1:hX:4:GLN:HB2	1.94	0.49
1:kC:161:PHE:O	1:kC:165:VAL:HG23	2.12	0.49
1:lc:205:LEU:HD13	1:lc:214:MET:SD	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4s:20:LEU:HD13	1:4t:42:ALA:HB1	1.94	0.49
1:5G:181:VAL:HG12	1:5G:185:MET:HE2	1.93	0.49
1:5M:156:GLY:H	1:5M:159:GLU:CD	2.19	0.49
1:69:199:LYS:HA	1:69:202:LEU:HD12	1.95	0.49
1:6i:165:VAL:HG22	1:6i:190:LEU:HD11	1.95	0.49
1:6q:128:GLU:HA	1:6q:131:LYS:HE2	1.94	0.49
1:9O:83:LEU:HD23	1:9O:84:HIS:CE1	2.48	0.49
1:a7:34:PRO:HB3	1:a7:173:ARG:HB3	1.95	0.49
1:aF:210:THR:HG23	1:aF:213:GLU:H	1.76	0.49
1:b2:181:VAL:HG12	1:b2:185:MET:HE3	1.94	0.49
1:d1:205:LEU:HG	1:d1:209:ALA:HB2	1.95	0.49
1:1s:48:THR:HG22	1:1s:118:MET:HE1	1.93	0.49
1:a:211:LEU:HA	1:a:214:MET:HE3	1.95	0.49
1:gW:64:ALA:HB2	1:gX:166:ASP:HA	1.95	0.49
1:ha:83:LEU:HD23	1:ha:84:HIS:CE1	2.47	0.49
1:hL:124:ILE:HG22	1:hL:126:VAL:HG13	1.94	0.49
1:hX:23:TRP:HB2	1:hX:43:LEU:HD13	1.95	0.49
1:21:210:THR:HG23	1:21:213:GLU:HG2	1.95	0.49
1:22:23:TRP:HE1	1:22:59:VAL:HG23	1.78	0.49
1:kN:72:THR:HG21	1:kN:137:GLY:HA2	1.95	0.49
1:26:150:ILE:HD11	1:26:168:PHE:CD1	2.47	0.49
1:lD:117:TRP:HD1	1:lD:120:HIS:CE1	2.30	0.49
1:3F:143:ARG:HH12	1:3F:175:GLU:CD	2.21	0.49
1:4j:66:MET:HA	1:4j:66:MET:HE2	1.94	0.49
1:65:97:ARG:HH12	1:65:103:ASP:CG	2.21	0.49
1:6P:165:VAL:HG11	1:6P:215:MET:SD	2.53	0.49
1:6X:96:MET:HE1	1:6X:113:GLU:HA	1.94	0.49
1:7i:183:ASN:HA	1:7i:211:LEU:HD11	1.95	0.49
1:91:153:ILE:HD12	1:91:168:PHE:HB2	1.93	0.49
1:Z:191:VAL:O	1:Z:191:VAL:HG12	2.12	0.49
1:aQ:205:LEU:HD11	1:aQ:217:ALA:HB2	1.95	0.49
1:c7:184:TRP:CZ2	1:c7:188:THR:HG21	2.48	0.49
1:1s:80:TRP:CE3	1:1s:84:HIS:HE1	2.31	0.49
1:o:97:ARG:HH22	1:o:103:ASP:CG	2.20	0.49
1:hr:97:ARG:HH12	1:hr:103:ASP:CG	2.20	0.49
1:1K:150:ILE:O	1:1K:153:ILE:HG22	2.12	0.49
1:iu:87:HIS:CE1	1:iu:91:ILE:HD13	2.48	0.49
1:j4:150:ILE:HG23	1:j4:151:LEU:HD23	1.95	0.49
1:ls:15:ILE:HD13	1:ls:20:LEU:HD21	1.95	0.49
1:2p:114:GLN:HA	1:2p:117:TRP:CE3	2.48	0.49
1:43:117:TRP:HA	1:43:124:ILE:HD12	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6E:217:ALA:HA	1:8C:204:ALA:HB1	1.95	0.49
1:7a:63:GLN:HG3	1:7b:170:LYS:HG3	1.95	0.49
1:8r:105:ALA:HA	1:8r:130:TYR:CZ	2.48	0.49
1:8x:73:ILE:HD11	1:8x:134:ILE:HA	1.95	0.49
1:9k:150:ILE:HA	1:9k:171:THR:HG21	1.94	0.49
1:a7:151:LEU:HD11	1:bB:189:LEU:HD12	1.95	0.49
1:b2:165:VAL:HA	1:b2:168:PHE:HB2	1.94	0.49
1:b5:205:LEU:HD11	1:b5:217:ALA:HB2	1.93	0.49
1:16:81:ASP:CG	1:16:100:ARG:HE	2.20	0.49
1:cI:96:MET:HE3	1:cI:116:GLY:HA3	1.95	0.49
1:cK:6:LEU:HD12	1:cK:7:GLN:H	1.78	0.49
1:dl:96:MET:H	1:dl:120:HIS:HE2	1.61	0.49
1:dW:168:PHE:CG	1:dW:190:LEU:HD13	2.48	0.49
1:eQ:195:ASN:N	1:eQ:195:ASN:HD22	2.11	0.49
1:hs:104:ILE:HG21	1:hs:133:TRP:CH2	2.48	0.49
1:hX:165:VAL:HG22	1:hX:190:LEU:HD11	1.94	0.49
1:1Q:175:GLU:HG2	1:1Q:185:MET:HE1	1.95	0.49
1:j5:64:ALA:HB2	1:j6:165:VAL:HG12	1.95	0.49
1:28:20:LEU:O	1:28:24:VAL:HG23	2.13	0.49
1:lR:211:LEU:N	1:lR:211:LEU:HD22	2.28	0.49
1:2z:28:GLU:CD	1:2z:61:GLY:H	2.19	0.49
1:3a:56:LEU:HD22	1:3a:66:MET:HE1	1.95	0.49
1:49:184:TRP:CH2	1:y:185:MET:HE2	2.48	0.49
1:4y:191:VAL:HG13	1:4y:202:LEU:HD13	1.94	0.49
1:4C:62:HIS:CE1	1:4D:231:LEU:HD11	2.48	0.49
1:5d:186:THR:HA	1:5d:190:LEU:HD12	1.95	0.49
1:77:17:PRO:HG2	1:78:43:LEU:HD23	1.95	0.49
1:7m:139:ASN:CG	1:7m:176:GLN:HE22	2.20	0.49
1:7L:97:ARG:HH22	1:7L:103:ASP:CG	2.21	0.49
1:8M:114:GLN:HA	1:8M:117:TRP:CE3	2.47	0.49
1:aU:3:VAL:HG22	1:aU:4:GLN:N	2.27	0.49
1:bm:69:LEU:HB2	1:bm:141:ILE:HD11	1.94	0.49
1:di:34:PRO:HD3	1:di:142:VAL:HG21	1.95	0.49
1:dO:37:ILE:H	1:dO:37:ILE:HD12	1.77	0.49
1:i5:43:LEU:HD13	1:i5:55:MET:SD	2.53	0.48
1:i9:80:TRP:CH2	1:i9:84:HIS:HE1	2.31	0.48
1:iE:37:ILE:H	1:iE:37:ILE:HD12	1.77	0.48
1:lK:181:VAL:HG22	1:3j:181:VAL:CG2	2.42	0.48
1:3p:83:LEU:HD23	1:3p:84:HIS:CE1	2.48	0.48
1:4X:184:TRP:CZ2	1:4X:188:THR:HG21	2.48	0.48
1:5y:97:ARG:HH22	1:5y:103:ASP:CG	2.20	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5J:95:GLN:HE21	1:5J:120:HIS:CD2	2.29	0.48
1:7w:168:PHE:CD2	1:7w:190:LEU:HD13	2.48	0.48
1:7N:54:THR:HG23	1:7O:38:PRO:HB3	1.94	0.48
1:9z:70:LYS:HA	1:9z:73:ILE:HG12	1.95	0.48
1:aN:191:VAL:HG22	1:aN:202:LEU:HB3	1.93	0.48
1:b2:142:VAL:O	1:b2:146:SER:HB2	2.13	0.48
1:bg:150:ILE:HD11	1:bg:168:PHE:CE1	2.49	0.48
1:1b:3:VAL:HG12	1:1b:4:GLN:HG3	1.95	0.48
1:eG:120:HIS:CG	1:eG:121:ASN:N	2.79	0.48
1:eH:191:VAL:HG13	1:eH:202:LEU:HD13	1.95	0.48
1:j:120:HIS:CG	1:j:121:ASN:H	2.31	0.48
1:E:230:VAL:HG22	1:F:147:PRO:HB3	1.95	0.48
1:M:169:TYR:HB3	1:N:63:GLN:HB2	1.94	0.48
1:hb:87:HIS:CE1	1:hb:98:GLU:H	2.30	0.48
1:lN:33:SER:O	1:lN:36:VAL:HG12	2.13	0.48
1:3p:71:GLU:CG	1:3q:211:LEU:HD22	2.43	0.48
1:3M:175:GLU:HB3	1:3M:177:ALA:HB3	1.95	0.48
1:8c:150:ILE:HG21	1:8c:185:MET:SD	2.53	0.48
1:8r:105:ALA:HA	1:8r:130:TYR:CE1	2.48	0.48
1:bo:73:ILE:HD11	1:bo:134:ILE:HG13	1.95	0.48
1:bz:184:TRP:CZ2	1:bz:188:THR:HG21	2.48	0.48
1:ct:201:ILE:HD12	1:ct:201:ILE:H	1.78	0.48
1:cK:205:LEU:HD12	1:W:204:ALA:HA	1.94	0.48
1:ey:58:THR:HG23	1:ez:42:ALA:HB2	1.95	0.48
1:1B:37:ILE:HB	1:1B:38:PRO:HD3	1.94	0.48
1:u:96:MET:HG2	1:u:120:HIS:CE1	2.48	0.48
1:L:191:VAL:HA	1:L:202:LEU:HD13	1.94	0.48
1:im:105:ALA:HA	1:im:130:TYR:CE1	2.49	0.48
1:j7:37:ILE:HB	1:j7:38:PRO:HD3	1.95	0.48
1:1X:69:LEU:HB2	1:1X:141:ILE:HD11	1.96	0.48
1:k9:24:VAL:HG23	1:k9:58:THR:HG22	1.95	0.48
1:30:165:VAL:HG13	1:30:190:LEU:HD11	1.95	0.48
1:5i:65:ALA:HA	1:5i:68:MET:HG2	1.94	0.48
1:6D:37:ILE:N	1:6D:38:PRO:HD2	2.29	0.48
1:7l:10:MET:HE3	1:7l:119:THR:HA	1.94	0.48
1:7v:12:HIS:HE1	1:7v:115:ILE:HG21	1.78	0.48
1:7K:120:HIS:CG	1:7K:121:ASN:H	2.31	0.48
1:8n:2:ILE:HG22	1:8n:10:MET:HB2	1.95	0.48
1:8C:165:VAL:HG12	1:8H:64:ALA:HB2	1.95	0.48
1:9t:26:VAL:HA	1:9t:30:LYS:HG2	1.96	0.48
1:a2:62:HIS:CD2	1:a3:231:LEU:HD13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a8:15:ILE:HG22	1:a9:45:GLU:HG2	1.94	0.48
1:at:64:ALA:HB2	1:au:165:VAL:HG12	1.95	0.48
1:eL:15:ILE:HD11	1:eL:19:THR:HG21	1.95	0.48
1:f1:114:GLN:HA	1:f1:117:TRP:CE3	2.49	0.48
1:fm:50:GLN:HB3	1:fm:111:LEU:HD13	1.96	0.48
1:1B:104:ILE:HA	1:1B:126:VAL:HG13	1.94	0.48
1:m:24:VAL:HG22	1:m:59:VAL:HG13	1.95	0.48
1:u:96:MET:HG2	1:u:120:HIS:HE1	1.78	0.48
1:1D:80:TRP:CE2	1:1D:84:HIS:HE1	2.31	0.48
1:h8:91:ILE:HD11	1:h8:95:GLN:HG3	1.94	0.48
1:ij:12:HIS:CD2	1:ij:111:LEU:HD11	2.47	0.48
1:jc:4:GLN:CD	1:jc:4:GLN:H	2.21	0.48
1:jp:2:ILE:HG22	1:jp:10:MET:HB3	1.94	0.48
1:4e:29:GLU:HB3	1:4f:231:LEU:HD12	1.96	0.48
1:4Q:161:PHE:CE2	1:4Q:202:LEU:HD11	2.48	0.48
1:6u:165:VAL:HG12	1:6z:64:ALA:HB2	1.94	0.48
1:71:37:ILE:HD12	1:71:37:ILE:H	1.77	0.48
1:7u:79:GLU:CD	1:7u:82:ARG:HH22	2.21	0.48
1:8k:162:ARG:HH22	1:8k:231:LEU:C	2.21	0.48
1:as:68:MET:HE1	1:as:140:LYS:CB	2.43	0.48
1:1y:25:LYS:HZ1	1:1z:29:GLU:CD	2.21	0.48
1:fL:226:HIS:CG	1:fL:227:LYS:H	2.32	0.48
1:g5:150:ILE:HG13	1:g5:151:LEU:HD12	1.95	0.48
1:A:170:LYS:HE3	1:B:61:GLY:HA2	1.95	0.48
1:M:215:MET:SD	1:N:68:MET:HE1	2.54	0.48
1:h3:58:THR:HA	1:h4:38:PRO:HG2	1.96	0.48
1:j1:138:LEU:O	1:j1:142:VAL:HG23	2.13	0.48
1:jr:163:ASP:CG	1:jr:167:ARG:HH21	2.22	0.48
1:ju:68:MET:HG3	1:jv:211:LEU:HD23	1.95	0.48
1:20:211:LEU:HD11	1:20:215:MET:HE2	1.95	0.48
1:kq:83:LEU:HD23	1:kq:84:HIS:CE1	2.48	0.48
1:l3:13:GLN:HA	1:l3:13:GLN:HE21	1.78	0.48
1:2m:230:VAL:HG21	1:2q:204:ALA:HB2	1.95	0.48
1:3v:17:PRO:HB3	1:3w:39:MET:SD	2.53	0.48
1:3K:50:GLN:HG2	1:3K:114:GLN:HE22	1.79	0.48
1:4m:111:LEU:HD23	1:4m:111:LEU:H	1.78	0.48
1:5f:97:ARG:HH12	1:5f:103:ASP:CG	2.21	0.48
1:6E:33:SER:O	1:6E:36:VAL:HG12	2.12	0.48
1:6H:12:HIS:HB2	1:6H:115:ILE:HD11	1.96	0.48
1:72:150:ILE:HG21	1:72:185:MET:HE2	1.96	0.48
1:9Y:130:TYR:CZ	1:9Y:134:ILE:HD11	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cb:37:ILE:H	1:cb:37:ILE:HD12	1.79	0.48
1:cz:215:MET:HE2	1:cz:215:MET:HA	1.95	0.48
1:cK:105:ALA:HA	1:cK:130:TYR:CZ	2.49	0.48
1:dY:35:GLU:CD	1:dY:35:GLU:H	2.21	0.48
1:eb:165:VAL:HG22	1:eb:190:LEU:HD11	1.95	0.48
1:eE:78:ALA:HB1	1:eE:82:ARG:HH12	1.78	0.48
1:N:73:ILE:HG22	1:N:133:TRP:HB3	1.95	0.48
1:gd:80:TRP:CH2	1:gd:129:ILE:HD13	2.49	0.48
1:gR:159:GLU:CD	1:gR:229:ARG:HH21	2.21	0.48
1:1O:155:GLN:H	1:1O:155:GLN:CD	2.22	0.48
1:je:35:GLU:HB3	1:je:173:ARG:HH22	1.77	0.48
1:kI:150:ILE:O	1:kI:153:ILE:HG22	2.14	0.48
1:3J:32:PHE:CE1	1:3J:66:MET:HE3	2.48	0.48
1:4x:37:ILE:HG23	1:4x:135:ILE:HG12	1.95	0.48
1:5f:120:HIS:CE1	1:5f:121:ASN:O	2.66	0.48
1:5g:3:VAL:HG11	1:5h:6:LEU:HD13	1.95	0.48
1:5j:31:ALA:HB2	1:5j:62:HIS:CE1	2.49	0.48
1:6N:37:ILE:HD12	1:6N:37:ILE:H	1.79	0.48
1:7G:128:GLU:HB3	1:7G:132:ARG:HH12	1.78	0.48
1:84:149:SER:H	1:84:152:ASP:HB2	1.78	0.48
1:9p:97:ARG:HH21	1:9p:113:GLU:CD	2.22	0.48
1:9q:4:GLN:HA	1:9q:10:MET:HE3	1.95	0.48
1:aD:56:LEU:HD11	1:aD:134:ILE:HD11	1.96	0.48
1:bC:191:VAL:HG22	1:bC:202:LEU:HD13	1.95	0.48
1:di:124:ILE:HG22	1:di:126:VAL:HG13	1.95	0.48
1:dj:161:PHE:O	1:dj:165:VAL:HG23	2.14	0.48
1:dm:27:VAL:HG11	1:dm:59:VAL:HG13	1.95	0.48
1:ea:156:GLY:H	1:ea:159:GLU:CD	2.22	0.48
1:eE:181:VAL:CG1	1:eE:185:MET:HE3	2.44	0.48
1:g7:191:VAL:HG22	1:g7:202:LEU:HD13	1.96	0.48
1:n:172:LEU:HD23	1:n:172:LEU:C	2.39	0.48
1:hg:120:HIS:CG	1:hg:121:ASN:H	2.32	0.48
1:hI:165:VAL:HG22	1:hI:190:LEU:HD11	1.96	0.48
1:hW:96:MET:HE3	1:hW:117:TRP:HA	1.95	0.48
1:32:96:MET:HB3	1:32:117:TRP:CD1	2.48	0.48
1:3C:226:HIS:O	1:3C:226:HIS:CD2	2.67	0.48
1:4A:143:ARG:HH12	1:4A:175:GLU:CD	2.21	0.48
1:5y:66:MET:HE2	1:5y:66:MET:HA	1.95	0.48
1:65:73:ILE:HG22	1:65:133:TRP:HB3	1.95	0.48
1:9D:165:VAL:HG23	1:9D:190:LEU:HD11	1.96	0.48
1:17:3:VAL:HG22	1:17:13:GLN:HE22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:by:143:ARG:HE	1:by:175:GLU:CD	2.20	0.48
1:cA:155:GLN:HB2	1:cA:164:TYR:CD1	2.49	0.48
1:ep:32:PHE:CE2	1:ep:66:MET:HE3	2.49	0.48
1:fI:124:ILE:HD12	1:fI:124:ILE:N	2.29	0.48
1:A:216:THR:HG23	1:B:144:MET:HE1	1.95	0.48
1:l0:12:HIS:HE1	1:l0:115:ILE:HD13	1.79	0.48
1:ll:68:MET:HE1	1:ll:144:MET:SD	2.53	0.48
1:3i:6:LEU:H	1:3i:10:MET:HE3	1.79	0.48
1:3F:205:LEU:HD11	1:3F:213:GLU:HB3	1.96	0.48
1:3L:69:LEU:HD11	1:3L:134:ILE:HG23	1.96	0.48
1:4f:161:PHE:CE2	1:4f:202:LEU:HD11	2.49	0.48
1:4z:144:MET:HE1	1:4A:215:MET:CE	2.43	0.48
1:4W:39:MET:CE	1:51:21:ASN:HD21	2.26	0.48
1:5i:120:HIS:CE1	1:5j:7:GLN:HG2	2.49	0.48
1:5L:97:ARG:HE	1:5L:113:GLU:CD	2.21	0.48
1:67:63:GLN:HG3	1:68:170:LYS:HA	1.95	0.48
1:6e:196:PRO:HA	1:6e:199:LYS:HB3	1.95	0.48
1:91:58:THR:HG22	1:91:58:THR:O	2.14	0.48
1:cX:204:ALA:CB	1:V:204:ALA:HB1	2.44	0.48
1:fb:155:GLN:HG2	1:fb:164:TYR:CD2	2.49	0.48
1:k:62:HIS:HB3	1:k:65:ALA:HB3	1.96	0.48
1:V:24:VAL:HG22	1:V:59:VAL:HG12	1.95	0.48
1:gx:96:MET:HE2	1:gx:116:GLY:HA3	1.95	0.48
1:gW:39:MET:HE1	1:h1:20:LEU:HB2	1.96	0.48
1:ia:3:VAL:HG12	1:ia:5:ASN:H	1.79	0.48
1:iZ:186:THR:HA	1:iZ:190:LEU:HD12	1.95	0.48
1:jy:105:ALA:HA	1:jy:130:TYR:CD1	2.48	0.48
1:jS:33:SER:O	1:jS:36:VAL:HG22	2.14	0.48
1:k8:37:ILE:HB	1:k8:38:PRO:HD3	1.95	0.48
1:kf:209:ALA:HB3	1:kf:214:MET:HE2	1.94	0.48
1:kC:181:VAL:HG12	1:kC:185:MET:HE3	1.96	0.48
1:kG:201:ILE:HD11	1:2e:203:LYS:HB3	1.96	0.48
1:kY:104:ILE:HA	1:kY:126:VAL:HG13	1.95	0.48
1:2u:97:ARG:HH12	1:2u:113:GLU:CD	2.21	0.48
1:4r:220:GLY:O	1:6v:199:LYS:HE3	2.13	0.48
1:4w:226:HIS:CD2	1:4w:227:LYS:HD3	2.49	0.48
1:5U:80:TRP:CZ2	1:5U:84:HIS:CE1	3.01	0.48
1:78:167:ARG:HH21	1:78:231:LEU:C	2.22	0.48
1:7h:104:ILE:HA	1:7h:126:VAL:CG1	2.44	0.48
1:8Z:186:THR:HA	1:8Z:190:LEU:HD12	1.96	0.48
1:10:120:HIS:CG	1:10:121:ASN:N	2.82	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ac:69:LEU:HD23	1:ac:137:GLY:HA3	1.96	0.48
1:aJ:70:LYS:HA	1:aJ:73:ILE:HG12	1.95	0.48
1:aT:27:VAL:O	1:aT:31:ALA:HB2	2.14	0.48
1:aZ:124:ILE:HG22	1:aZ:126:VAL:HG13	1.96	0.48
1:bQ:65:ALA:HB1	1:bQ:141:ILE:HD13	1.94	0.48
1:dt:87:HIS:CD2	1:dt:98:GLU:HB2	2.48	0.48
1:dy:80:TRP:CZ2	1:dy:84:HIS:HE1	2.31	0.48
1:dC:48:THR:HG22	1:dC:118:MET:HE1	1.95	0.48
1:eK:34:PRO:HA	1:eK:37:ILE:HD12	1.96	0.48
1:fx:15:ILE:HD11	1:fx:19:THR:HG21	1.96	0.48
1:gM:185:MET:HA	1:gM:189:LEU:HD12	1.96	0.48
1:hS:69:LEU:HD22	1:hS:73:ILE:HD11	1.95	0.48
1:hY:80:TRP:CZ2	1:hY:84:HIS:HE1	2.32	0.48
1:j7:11:VAL:HG12	1:j7:12:HIS:N	2.29	0.48
1:jm:68:MET:HE2	1:jm:140:LYS:HD3	1.96	0.48
1:kJ:68:MET:SD	1:kJ:144:MET:HE1	2.53	0.48
1:kJ:161:PHE:O	1:kJ:165:VAL:HG23	2.13	0.48
1:3g:32:PHE:CD2	1:3g:141:ILE:HG21	2.49	0.48
1:3z:175:GLU:HA	1:3z:175:GLU:OE2	2.14	0.48
1:3K:175:GLU:HG3	1:3K:177:ALA:H	1.79	0.48
1:60:150:ILE:O	1:60:153:ILE:HG22	2.13	0.48
1:6e:82:ARG:HH21	1:8f:79:GLU:CD	2.22	0.48
1:9B:144:MET:HA	1:9B:144:MET:HE2	1.94	0.48
1:aU:3:VAL:HG22	1:aU:4:GLN:H	1.79	0.48
1:cw:151:LEU:H	1:cw:151:LEU:HD12	1.78	0.48
1:eN:104:ILE:HD13	1:eN:126:VAL:HG13	1.94	0.48
1:gJ:20:LEU:HD22	1:gJ:58:THR:HG21	1.96	0.47
1:gW:32:PHE:CE1	1:gW:66:MET:HE3	2.49	0.47
1:hs:81:ASP:CG	1:hs:100:ARG:HH21	2.22	0.47
1:hK:181:VAL:HG12	1:hK:185:MET:HE3	1.95	0.47
1:hZ:5:ASN:O	1:hZ:6:LEU:HB2	2.14	0.47
1:k3:97:ARG:HH12	1:k3:103:ASP:CG	2.22	0.47
1:l8:91:ILE:HD13	1:l8:91:ILE:H	1.79	0.47
1:3i:97:ARG:HH22	1:3i:103:ASP:CG	2.22	0.47
1:4B:124:ILE:HG22	1:4B:126:VAL:HG13	1.96	0.47
1:5m:209:ALA:HB3	1:5m:214:MET:HE2	1.95	0.47
1:6D:76:GLU:HB3	1:6D:133:TRP:CD1	2.49	0.47
1:6G:62:HIS:CE1	1:6G:64:ALA:HB3	2.48	0.47
1:6H:159:GLU:CD	1:6H:167:ARG:HH12	2.22	0.47
1:75:143:ARG:HH22	1:75:175:GLU:CD	2.21	0.47
1:7s:231:LEU:HD11	1:7x:33:SER:HB2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7H:172:LEU:HD23	1:7H:177:ALA:CB	2.43	0.47
1:82:86:VAL:HG12	1:82:98:GLU:HB3	1.96	0.47
1:8N:59:VAL:HG11	1:8N:66:MET:HE3	1.96	0.47
1:9V:66:MET:SD	1:9V:69:LEU:HD12	2.54	0.47
1:ar:191:VAL:HG11	1:ar:214:MET:HE1	1.95	0.47
1:cg:184:TRP:CZ2	1:cg:188:THR:HG21	2.49	0.47
1:cJ:68:MET:HA	1:cJ:68:MET:HE3	1.95	0.47
1:cT:168:PHE:CE1	1:cT:172:LEU:HD11	2.49	0.47
1:eS:87:HIS:CE1	1:eS:98:GLU:O	2.67	0.47
1:f9:164:TYR:CE2	1:f9:190:LEU:HD12	2.49	0.47
1:Q:104:ILE:HG22	1:Q:130:TYR:HB2	1.95	0.47
1:8:150:ILE:HG13	1:8:185:MET:HE2	1.96	0.47
1:gw:32:PHE:CE1	1:gw:62:HIS:CD2	3.01	0.47
1:in:80:TRP:CH2	1:in:84:HIS:HE1	2.32	0.47
1:1U:128:GLU:OE1	1:1U:128:GLU:HA	2.14	0.47
1:jd:185:MET:HA	1:jd:189:LEU:HB3	1.96	0.47
1:jC:20:LEU:HD11	1:jD:42:ALA:HB1	1.94	0.47
1:jM:143:ARG:HH12	1:jM:175:GLU:CD	2.22	0.47
1:lv:64:ALA:HB2	1:lw:165:VAL:HG23	1.97	0.47
1:3C:5:ASN:HD21	1:3C:7:GLN:HB2	1.79	0.47
1:4i:190:LEU:HD23	1:4i:211:LEU:HD11	1.95	0.47
1:4E:127:GLY:O	1:4E:131:LYS:HB2	2.14	0.47
1:5y:28:GLU:HA	1:5y:61:GLY:HA3	1.96	0.47
1:6K:144:MET:HE2	1:6L:215:MET:HG3	1.96	0.47
1:86:169:TYR:OH	1:86:186:THR:HG23	2.14	0.47
1:8X:184:TRP:CG	1:aE:181:VAL:HG11	2.49	0.47
1:9R:191:VAL:HG13	1:9R:202:LEU:HD22	1.96	0.47
1:9Y:66:MET:HE2	1:9Y:66:MET:HA	1.96	0.47
1:aL:130:TYR:CE1	1:aL:134:ILE:HD11	2.49	0.47
1:c9:161:PHE:CZ	1:c9:202:LEU:HD11	2.49	0.47
1:cu:173:ARG:HD2	1:cz:63:GLN:OE1	2.15	0.47
1:dj:37:ILE:HB	1:dj:38:PRO:HD3	1.96	0.47
1:em:209:ALA:HB3	1:em:214:MET:HE2	1.96	0.47
1:eV:120:HIS:CG	1:eV:121:ASN:H	2.32	0.47
1:fC:212:GLU:O	1:fC:216:THR:HG23	2.15	0.47
1:fV:77:ALA:HA	1:fV:133:TRP:CH2	2.48	0.47
1:c:20:LEU:O	1:c:24:VAL:HG23	2.14	0.47
1:x:33:SER:C	1:x:35:GLU:H	2.22	0.47
1:gL:161:PHE:O	1:gL:165:VAL:HG23	2.14	0.47
1:gV:48:THR:HG22	1:gV:118:MET:SD	2.54	0.47
1:hg:150:ILE:HA	1:hg:171:THR:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hO:167:ARG:NH2	1:hO:229:ARG:HH22	2.11	0.47
1:il:205:LEU:HD11	1:il:217:ALA:HB3	1.97	0.47
1:iV:157:PRO:HB2	1:l7:230:VAL:HG21	1.96	0.47
1:j6:77:ALA:HA	1:j6:133:TRP:CH2	2.49	0.47
1:j8:70:LYS:HA	1:j8:73:ILE:HD12	1.97	0.47
1:jI:120:HIS:CG	1:jI:121:ASN:N	2.81	0.47
1:kp:120:HIS:CG	1:kp:121:ASN:N	2.83	0.47
1:kN:144:MET:HE3	1:kN:145:TYR:CE2	2.50	0.47
1:l3:205:LEU:HD13	1:l3:217:ALA:HB2	1.95	0.47
1:lC:150:ILE:HD11	1:lC:172:LEU:HD12	1.96	0.47
1:2e:37:ILE:HD11	1:2e:142:VAL:HG21	1.96	0.47
1:2O:50:GLN:H	1:2O:50:GLN:CD	2.21	0.47
1:4S:73:ILE:HD11	1:4S:134:ILE:HG12	1.96	0.47
1:64:15:ILE:HG12	1:64:20:LEU:HD21	1.96	0.47
1:6c:181:VAL:HA	1:x:181:VAL:HG22	1.96	0.47
1:7a:104:ILE:HG12	1:7a:126:VAL:HG13	1.95	0.47
1:9T:118:MET:HE2	1:9T:126:VAL:CG2	2.45	0.47
1:ay:150:ILE:HG21	1:ay:185:MET:SD	2.54	0.47
1:1m:128:GLU:HA	1:1m:131:LYS:HE2	1.97	0.47
1:eu:190:LEU:HD21	1:eu:211:LEU:HD11	1.96	0.47
1:fF:59:VAL:HG11	1:fF:66:MET:HG3	1.96	0.47
1:fL:35:GLU:CD	1:fL:35:GLU:H	2.22	0.47
1:fT:96:MET:HE1	1:fT:113:GLU:HA	1.96	0.47
1:O:97:ARG:HH22	1:O:103:ASP:CG	2.21	0.47
1:h0:120:HIS:CG	1:h0:121:ASN:H	2.32	0.47
1:hy:16:SER:HA	1:hy:17:PRO:HD2	1.82	0.47
1:iE:63:GLN:HA	1:iE:66:MET:HB2	1.96	0.47
1:km:168:PHE:CD1	1:km:190:LEU:HD13	2.49	0.47
1:l6:191:VAL:HG13	1:l6:202:LEU:HD13	1.94	0.47
1:32:104:ILE:HA	1:32:126:VAL:HG23	1.97	0.47
1:33:1:PRO:H3	1:33:51:ASP:CG	2.22	0.47
1:5N:76:GLU:HB3	1:5N:133:TRP:CD2	2.49	0.47
1:6m:2:ILE:HD13	1:6m:12:HIS:HB2	1.96	0.47
1:7c:28:GLU:HG2	1:7c:29:GLU:HG3	1.97	0.47
1:a5:4:GLN:HE22	1:a6:6:LEU:HD21	1.78	0.47
1:cF:27:VAL:HG11	1:cF:59:VAL:HG11	1.96	0.47
1:cU:73:ILE:HD11	1:cU:134:ILE:CG1	2.45	0.47
1:dc:37:ILE:HD12	1:dc:138:LEU:HD13	1.94	0.47
1:dK:143:ARG:HE	1:dL:231:LEU:C	2.21	0.47
1:dL:20:LEU:HD22	1:dL:58:THR:HG21	1.97	0.47
1:ew:68:MET:HE1	1:ex:212:GLU:HG3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:120:HIS:CG	1:G:121:ASN:H	2.33	0.47
1:g8:15:ILE:HG23	1:g8:15:ILE:O	2.15	0.47
1:gx:19:THR:HG23	1:gx:43:LEU:HB3	1.96	0.47
1:gF:117:TRP:HB3	1:gF:124:ILE:HB	1.95	0.47
1:gH:17:PRO:HA	1:gH:20:LEU:HD12	1.96	0.47
1:hc:143:ARG:HH12	1:hc:175:GLU:CD	2.23	0.47
1:i8:181:VAL:HG11	1:ih:184:TRP:CG	2.50	0.47
1:ic:165:VAL:HG22	1:ic:190:LEU:HD11	1.95	0.47
1:jL:12:HIS:HE1	1:jL:111:LEU:HD21	1.80	0.47
1:kL:175:GLU:CD	1:kL:176:GLN:H	2.23	0.47
1:l6:162:ARG:HA	1:l6:165:VAL:HG22	1.96	0.47
1:l7:97:ARG:HH22	1:l7:103:ASP:CG	2.22	0.47
1:lC:17:PRO:HG3	1:lD:43:LEU:HD23	1.95	0.47
1:34:138:LEU:O	1:34:142:VAL:HG23	2.13	0.47
1:3X:222:GLY:HA2	1:3X:226:HIS:CD2	2.50	0.47
1:4s:92:GLU:HA	1:4s:93:PRO:HD3	1.83	0.47
1:5u:146:SER:HB3	1:5u:174:ALA:HB1	1.94	0.47
1:5L:154:ARG:HE	1:7R:231:LEU:C	2.21	0.47
1:75:104:ILE:HA	1:75:126:VAL:HG13	1.97	0.47
1:91:17:PRO:HA	1:91:20:LEU:HB2	1.95	0.47
1:1i:120:HIS:CG	1:1i:121:ASN:H	2.33	0.47
1:dc:15:ILE:HD12	1:dc:55:MET:HE3	1.96	0.47
1:1j:31:ALA:HB3	1:1k:229:ARG:HB3	1.95	0.47
1:dg:163:ASP:CG	1:dg:229:ARG:HH22	2.22	0.47
1:ei:165:VAL:HG21	1:ei:215:MET:HE1	1.97	0.47
1:eJ:31:ALA:HB1	1:eK:228:ALA:HB1	1.94	0.47
1:ga:31:ALA:HB2	1:ga:62:HIS:CE1	2.50	0.47
1:gp:168:PHE:CD2	1:gp:190:LEU:HD13	2.49	0.47
1:gY:125:PRO:HB2	1:gY:128:GLU:HB2	1.97	0.47
1:hs:20:LEU:O	1:hs:24:VAL:HG23	2.14	0.47
1:23:168:PHE:CE1	1:23:169:TYR:CE2	3.02	0.47
1:ls:2:ILE:HG21	1:ls:9:GLN:HA	1.97	0.47
1:2P:32:PHE:HE2	1:2P:62:HIS:CD2	2.32	0.47
1:3G:97:ARG:HH22	1:3G:103:ASP:CG	2.23	0.47
1:3W:96:MET:HE1	1:3W:117:TRP:CD1	2.49	0.47
1:55:91:ILE:HD12	1:55:91:ILE:HA	1.80	0.47
1:5b:148:THR:HG21	1:5b:153:ILE:HD11	1.96	0.47
1:5x:50:GLN:HG2	1:5x:114:GLN:HE22	1.80	0.47
1:7F:3:VAL:HG22	1:7F:11:VAL:HB	1.97	0.47
1:84:2:ILE:HG12	1:84:10:MET:HE2	1.96	0.47
1:9J:5:ASN:HB2	1:9J:10:MET:HA	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b1:35:GLU:H	1:b1:35:GLU:CD	2.22	0.47
1:bk:138:LEU:HD23	1:bk:141:ILE:HD12	1.95	0.47
1:bJ:191:VAL:HG13	1:bJ:202:LEU:HB2	1.96	0.47
1:ft:80:TRP:CZ3	1:ft:84:HIS:CE1	3.03	0.47
1:fE:124:ILE:N	1:fE:124:ILE:HD12	2.29	0.47
1:gZ:24:VAL:HG12	1:gZ:59:VAL:HG22	1.96	0.47
1:hI:221:VAL:HB	1:hI:226:HIS:CE1	2.50	0.47
1:i0:166:ASP:HA	1:i5:64:ALA:HB2	1.96	0.47
1:ii:181:VAL:HG12	1:ii:185:MET:HE3	1.96	0.47
1:iC:97:ARG:HH22	1:iC:103:ASP:CG	2.23	0.47
1:iW:80:TRP:CE2	1:iW:84:HIS:HE1	2.31	0.47
1:iX:54:THR:O	1:iX:58:THR:HG23	2.14	0.47
1:j8:96:MET:HE2	1:j8:120:HIS:CD2	2.50	0.47
1:ji:112:GLN:HA	1:ji:115:ILE:HD12	1.97	0.47
1:jB:28:GLU:HA	1:jB:62:HIS:CD2	2.50	0.47
1:jH:136:LEU:HD12	1:jH:136:LEU:O	2.15	0.47
1:jK:66:MET:HE2	1:jK:66:MET:HA	1.97	0.47
1:kd:8:GLY:HA2	1:kd:10:MET:HE2	1.95	0.47
1:kt:143:ARG:HH12	1:kt:175:GLU:CD	2.21	0.47
1:kK:117:TRP:CD1	1:kK:124:ILE:HD12	2.50	0.47
1:26:124:ILE:HG22	1:26:126:VAL:HG13	1.95	0.47
1:la:37:ILE:HB	1:la:38:PRO:HD3	1.95	0.47
1:2k:117:TRP:CE3	1:2k:126:VAL:HG11	2.49	0.47
1:2m:80:TRP:HA	1:2m:83:LEU:HD12	1.96	0.47
1:2t:204:ALA:CB	1:4F:201:ILE:HG23	2.45	0.47
1:2P:80:TRP:CE2	1:2P:84:HIS:CE1	3.03	0.47
1:2U:20:LEU:HD23	1:2U:55:MET:SD	2.55	0.47
1:3D:131:LYS:HA	1:3D:134:ILE:HD12	1.95	0.47
1:3R:118:MET:HG3	1:3R:126:VAL:HG22	1.96	0.47
1:3U:151:LEU:HD13	1:43:189:LEU:HD21	1.96	0.47
1:48:64:ALA:HA	1:49:165:VAL:HG12	1.97	0.47
1:4W:39:MET:HE1	1:51:21:ASN:HD21	1.79	0.47
1:6j:86:VAL:HG11	1:6j:100:ARG:HG3	1.96	0.47
1:8b:87:HIS:CD2	1:8b:91:ILE:HD12	2.50	0.47
1:8B:168:PHE:CE1	1:8B:172:LEU:HD11	2.50	0.47
1:8B:202:LEU:HD21	1:8B:214:MET:HG3	1.97	0.47
1:8L:165:VAL:HG12	1:8L:190:LEU:HD11	1.96	0.47
1:8S:150:ILE:O	1:8S:153:ILE:HG23	2.15	0.47
1:9x:91:ILE:HD11	1:9x:95:GLN:HE21	1.80	0.47
1:au:161:PHE:O	1:au:165:VAL:HG23	2.15	0.47
1:14:118:MET:SD	1:14:126:VAL:HG22	2.54	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:b0:120:HIS:CG	1:b0:121:ASN:N	2.82	0.47
1:bf:12:HIS:HE1	1:bf:115:ILE:HD13	1.80	0.47
1:cN:40:PHE:CZ	1:cN:134:ILE:HG21	2.49	0.47
1:cT:12:HIS:CE1	1:cT:111:LEU:HD21	2.50	0.47
1:d6:12:HIS:CE1	1:d7:4:GLN:HE22	2.32	0.47
1:d6:150:ILE:HD11	1:d6:168:PHE:CD2	2.49	0.47
1:dk:112:GLN:CD	1:dk:112:GLN:H	2.23	0.47
1:dn:163:ASP:CG	1:dn:167:ARG:HH21	2.23	0.47
1:du:76:GLU:HB3	1:du:133:TRP:CD1	2.50	0.47
1:eS:70:LYS:HA	1:eS:73:ILE:HD12	1.96	0.47
1:1A:58:THR:HG22	1:1B:38:PRO:HB2	1.97	0.47
1:C:65:ALA:HA	1:C:68:MET:HE2	1.96	0.47
1:hX:40:PHE:CZ	1:hX:134:ILE:HG21	2.50	0.47
1:1O:23:TRP:HB2	1:1O:43:LEU:HD13	1.96	0.47
1:1T:80:TRP:CE2	1:1T:84:HIS:CE1	3.02	0.47
1:ju:168:PHE:CZ	1:ju:172:LEU:HD11	2.49	0.47
1:jY:229:ARG:HH22	1:jY:231:LEU:C	2.23	0.47
1:ln:226:HIS:CG	1:ln:227:LYS:N	2.83	0.47
1:3H:150:ILE:HD11	1:3H:172:LEU:CD2	2.44	0.47
1:4f:155:GLN:HE22	1:4f:161:PHE:HA	1.80	0.47
1:5u:175:GLU:HG3	1:5u:177:ALA:H	1.80	0.47
1:6y:97:ARG:HH12	1:6y:103:ASP:CG	2.22	0.47
1:79:168:PHE:CE2	1:79:172:LEU:HD22	2.50	0.47
1:86:150:ILE:HG21	1:86:185:MET:HE2	1.97	0.47
1:a0:150:ILE:HD11	1:a0:168:PHE:CE1	2.50	0.47
1:bt:181:VAL:O	1:bt:185:MET:HG3	2.15	0.47
1:ci:143:ARG:HH22	1:ci:175:GLU:CD	2.23	0.47
1:ck:96:MET:HE2	1:ck:120:HIS:CD2	2.49	0.47
1:ck:184:TRP:CG	1:ct:181:VAL:HG11	2.50	0.47
1:1e:196:PRO:HA	1:1e:199:LYS:HB3	1.96	0.47
1:cI:27:VAL:O	1:cI:31:ALA:HA	2.15	0.47
1:1g:124:ILE:H	1:1g:124:ILE:HD12	1.80	0.47
1:dS:68:MET:HA	1:dT:211:LEU:HD23	1.96	0.47
1:dU:69:LEU:HD23	1:dU:69:LEU:C	2.40	0.47
1:e9:14:ALA:HB2	1:ea:45:GLU:HB2	1.97	0.47
1:eV:37:ILE:HG23	1:eV:135:ILE:HG12	1.97	0.47
1:1w:188:THR:C	1:1w:192:GLN:HE21	2.23	0.47
1:fx:22:ALA:O	1:fx:26:VAL:HG23	2.15	0.47
1:O:205:LEU:HD21	1:O:217:ALA:HB2	1.96	0.47
1:gj:150:ILE:O	1:gj:153:ILE:HG22	2.14	0.47
1:gW:80:TRP:CZ2	1:gW:84:HIS:CE1	3.02	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ha:69:LEU:HD12	1:ha:137:GLY:HA3	1.96	0.47
1:hE:162:ARG:HG2	1:hE:215:MET:HE1	1.96	0.47
1:io:169:TYR:CZ	1:it:67:GLN:HG3	2.50	0.47
1:1X:87:HIS:CD2	1:1X:98:GLU:H	2.33	0.47
1:jM:138:LEU:O	1:jM:142:VAL:HG23	2.15	0.47
1:2d:22:ALA:HB3	1:2d:43:LEU:HD21	1.96	0.47
1:2p:104:ILE:HG12	1:2p:126:VAL:HG22	1.96	0.47
1:2P:91:ILE:HG22	1:2P:93:PRO:HD2	1.97	0.47
1:39:67:GLN:HB3	1:3a:211:LEU:HD13	1.97	0.47
1:3a:47:ALA:HB1	1:3a:52:LEU:HG	1.96	0.47
1:3L:12:HIS:CE1	1:3L:111:LEU:HD21	2.50	0.47
1:3O:104:ILE:HD13	1:3O:126:VAL:HG23	1.97	0.47
1:42:184:TRP:CH2	1:67:185:MET:HE1	2.50	0.47
1:4z:36:VAL:HG13	1:4z:37:ILE:HD13	1.97	0.47
1:4Q:96:MET:HE2	1:4Q:120:HIS:CE1	2.50	0.47
1:5c:97:ARG:HE	1:5c:113:GLU:CD	2.23	0.47
1:5q:24:VAL:HG22	1:5q:59:VAL:HA	1.97	0.47
1:5t:181:VAL:HG11	1:7E:184:TRP:CD2	2.50	0.47
1:5D:99:PRO:HG3	1:5D:117:TRP:CE2	2.50	0.47
1:5M:203:LYS:HZ1	1:7M:231:LEU:C	2.23	0.47
1:6e:181:VAL:HG11	1:6t:184:TRP:CE3	2.50	0.47
1:7j:184:TRP:CD2	1:9o:181:VAL:HG11	2.50	0.47
1:7Q:79:GLU:CD	1:7Q:82:ARG:HH12	2.22	0.47
1:8f:150:ILE:HG21	1:8f:172:LEU:HD21	1.97	0.47
1:8u:96:MET:HG2	1:8u:120:HIS:HE1	1.80	0.47
1:c0:157:PRO:HA	1:G:226:HIS:CE1	2.49	0.47
1:ew:83:LEU:HD23	1:ew:84:HIS:CE1	2.50	0.47
1:eV:159:GLU:CD	1:eV:167:ARG:HH22	2.22	0.47
1:f8:5:ASN:HA	1:f9:6:LEU:O	2.15	0.47
1:t:185:MET:HA	1:t:189:LEU:HB3	1.96	0.47
1:hE:120:HIS:CG	1:hE:121:ASN:H	2.33	0.47
1:k9:124:ILE:HG22	1:k9:126:VAL:HG13	1.97	0.47
1:ku:229:ARG:C	1:ku:229:ARG:HD3	2.39	0.47
1:kX:31:ALA:O	1:kX:36:VAL:HG11	2.14	0.47
1:ln:168:PHE:CZ	1:ln:172:LEU:HD11	2.50	0.47
1:lr:161:PHE:O	1:lr:165:VAL:HG23	2.15	0.47
1:39:104:ILE:HG21	1:39:129:ILE:HG22	1.97	0.47
1:3K:32:PHE:H	1:3L:231:LEU:HD13	1.80	0.47
1:4f:17:PRO:HA	1:4f:20:LEU:HD12	1.97	0.47
1:4l:80:TRP:CZ3	1:4l:129:ILE:HD13	2.49	0.47
1:5n:165:VAL:HG22	1:5n:190:LEU:HD11	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5J:79:GLU:CD	1:5J:82:ARG:HH21	2.23	0.47
1:5W:32:PHE:CE1	1:5W:62:HIS:HE1	2.33	0.47
1:8w:154:ARG:HA	1:8w:193:ASN:HB3	1.97	0.47
1:8F:26:VAL:HG12	1:8F:36:VAL:HG22	1.97	0.47
1:Y:154:ARG:HH22	1:2:231:LEU:C	2.23	0.47
1:9W:138:LEU:O	1:9W:142:VAL:HG23	2.15	0.47
1:cS:201:ILE:H	1:cS:201:ILE:HD12	1.80	0.47
1:dF:186:THR:HG23	1:dF:190:LEU:HD12	1.97	0.47
1:1u:5:ASN:HD21	1:1u:11:VAL:HG12	1.80	0.47
1:q:86:VAL:HB	1:q:100:ARG:HG2	1.96	0.47
1:iX:69:LEU:HD23	1:iX:69:LEU:C	2.40	0.46
1:jF:84:HIS:CE1	1:jF:87:HIS:CE1	3.03	0.46
1:jO:150:ILE:HD12	1:jO:171:THR:HB	1.95	0.46
1:jX:201:ILE:H	1:jX:201:ILE:HD12	1.79	0.46
1:k0:205:LEU:HB3	1:k0:214:MET:HE1	1.97	0.46
1:k8:1:PRO:O	1:k8:12:HIS:CD2	2.69	0.46
1:kI:120:HIS:CG	1:kI:121:ASN:H	2.33	0.46
1:kI:120:HIS:CG	1:kI:121:ASN:N	2.83	0.46
1:kV:84:HIS:CD2	1:kV:87:HIS:CE1	3.03	0.46
1:2b:115:ILE:O	1:2b:119:THR:HG23	2.15	0.46
1:3n:79:GLU:CD	1:3n:82:ARG:HH21	2.22	0.46
1:5t:24:VAL:HG22	1:5t:59:VAL:HG22	1.96	0.46
1:5L:1:PRO:HA	1:5L:46:GLY:O	2.15	0.46
1:6A:143:ARG:HH12	1:6A:175:GLU:CD	2.23	0.46
1:6H:37:ILE:H	1:6H:37:ILE:HD12	1.80	0.46
1:78:150:ILE:HG21	1:78:185:MET:HE2	1.97	0.46
1:7l:96:MET:HB2	1:7l:120:HIS:CD2	2.50	0.46
1:98:163:ASP:CG	1:98:167:ARG:HH21	2.23	0.46
1:a3:15:ILE:HG12	1:a3:20:LEU:HD11	1.96	0.46
1:b2:151:LEU:H	1:b2:151:LEU:HD12	1.80	0.46
1:cC:37:ILE:H	1:cC:37:ILE:HD12	1.80	0.46
1:dC:185:MET:HE1	1:f7:184:TRP:CZ2	2.51	0.46
1:fW:48:THR:HG22	1:fW:118:MET:HE1	1.96	0.46
1:z:122:PRO:HA	1:z:123:PRO:HD3	1.87	0.46
1:gK:216:THR:HG23	1:gP:144:MET:HE2	1.96	0.46
1:gN:73:ILE:HD11	1:gN:134:ILE:HA	1.98	0.46
1:hq:191:VAL:HA	1:hq:202:LEU:HD13	1.96	0.46
1:hv:181:VAL:HG12	1:hv:185:MET:HE3	1.96	0.46
1:hD:154:ARG:HH22	1:hE:231:LEU:C	2.23	0.46
1:hM:80:TRP:CE2	1:hM:84:HIS:CE1	3.03	0.46
1:i9:80:TRP:CZ2	1:i9:84:HIS:HE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jN:114:GLN:HA	1:jN:117:TRP:CE3	2.50	0.46
1:2T:70:LYS:HA	1:2T:73:ILE:HG12	1.97	0.46
1:3B:117:TRP:CD1	1:3B:124:ILE:HD12	2.50	0.46
1:3K:150:ILE:O	1:3K:153:ILE:HG22	2.15	0.46
1:3N:198:CYS:HA	1:3N:201:ILE:HD12	1.97	0.46
1:48:80:TRP:CZ2	1:48:84:HIS:CE1	3.04	0.46
1:6c:104:ILE:HD13	1:6c:126:VAL:HG13	1.98	0.46
1:7n:68:MET:HE1	1:7n:140:LYS:HB2	1.96	0.46
1:86:169:TYR:CE1	1:86:172:LEU:HD23	2.50	0.46
1:8N:201:ILE:HD12	1:8N:221:VAL:HG21	1.97	0.46
1:ap:1:PRO:H3	1:ap:51:ASP:CG	2.23	0.46
1:ba:70:LYS:HA	1:ba:73:ILE:HD12	1.97	0.46
1:bl:199:LYS:HA	1:bl:202:LEU:HD12	1.98	0.46
1:bD:4:GLN:CD	1:bD:4:GLN:H	2.23	0.46
1:bX:172:LEU:HD21	1:bX:182:LYS:HD2	1.97	0.46
1:cs:221:VAL:HG21	1:cs:226:HIS:CE1	2.50	0.46
1:cu:165:VAL:HG22	1:cu:190:LEU:HD11	1.96	0.46
1:cN:80:TRP:CZ2	1:cN:104:ILE:HD11	2.51	0.46
1:1h:96:MET:HE2	1:1h:96:MET:HA	1.96	0.46
1:dc:64:ALA:HB1	1:dd:215:MET:HE1	1.96	0.46
1:eh:83:LEU:HD23	1:eh:84:HIS:CE1	2.50	0.46
1:ek:97:ARG:HH22	1:ek:103:ASP:CG	2.22	0.46
1:et:205:LEU:C	1:et:205:LEU:HD13	2.40	0.46
1:fu:37:ILE:HG23	1:fu:135:ILE:HG23	1.97	0.46
1:0:226:HIS:CE1	1:0:227:LYS:HG3	2.50	0.46
1:gt:27:VAL:HA	1:gt:31:ALA:HB2	1.97	0.46
1:gD:191:VAL:HG13	1:gD:202:LEU:HD13	1.97	0.46
1:gZ:65:ALA:HB1	1:gZ:141:ILE:HG12	1.98	0.46
1:hy:1:PRO:H3	1:hy:51:ASP:CG	2.23	0.46
1:hL:83:LEU:HD23	1:hL:84:HIS:CE1	2.50	0.46
1:hU:2:ILE:HG21	1:hU:118:MET:HE1	1.96	0.46
1:i0:86:VAL:HG13	1:i0:98:GLU:HG2	1.97	0.46
1:id:80:TRP:CE2	1:id:84:HIS:HE1	2.32	0.46
1:ip:181:VAL:HG12	1:ip:185:MET:HE3	1.96	0.46
1:1S:13:GLN:HE21	1:1S:13:GLN:HA	1.80	0.46
1:j8:114:GLN:O	1:j8:118:MET:HE2	2.15	0.46
1:jh:63:GLN:HB3	1:ji:169:TYR:HB3	1.98	0.46
1:jm:51:ASP:O	1:jm:55:MET:HG2	2.16	0.46
1:24:70:LYS:HA	1:24:70:LYS:HE3	1.97	0.46
1:kU:7:GLN:HE22	1:kZ:11:VAL:CB	2.29	0.46
1:lH:130:TYR:CZ	1:lH:134:ILE:HD11	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lI:153:ILE:HD11	1:lI:167:ARG:HG2	1.97	0.46
1:lR:201:ILE:HA	1:bD:200:THR:HG23	1.98	0.46
1:3k:16:SER:HB3	1:3k:19:THR:HG22	1.97	0.46
1:4u:175:GLU:O	1:4u:175:GLU:HG3	2.15	0.46
1:4L:23:TRP:CH2	1:4L:40:PHE:CD1	3.03	0.46
1:5u:65:ALA:HA	1:5u:68:MET:HE2	1.96	0.46
1:5w:181:VAL:HG12	1:5w:185:MET:HE3	1.97	0.46
1:6d:159:GLU:CD	1:6d:167:ARG:HH12	2.24	0.46
1:6q:186:THR:HA	1:6q:190:LEU:HD12	1.98	0.46
1:8y:1:PRO:O	1:8y:12:HIS:CD2	2.68	0.46
1:8C:163:ASP:CG	1:8C:229:ARG:HH12	2.24	0.46
1:9c:21:ASN:HD21	1:9d:39:MET:HE1	1.81	0.46
1:av:59:VAL:HG11	1:av:66:MET:HE3	1.97	0.46
1:aE:181:VAL:HG12	1:aE:185:MET:HE2	1.97	0.46
1:aH:150:ILE:O	1:aH:153:ILE:HG22	2.16	0.46
1:bf:167:ARG:HH21	1:bg:231:LEU:C	2.23	0.46
1:c6:12:HIS:CD2	1:c6:115:ILE:HD11	2.50	0.46
1:cS:161:PHE:O	1:cS:165:VAL:HG23	2.14	0.46
1:eV:163:ASP:HA	1:eV:166:ASP:HB3	1.97	0.46
1:g2:17:PRO:HG2	1:g3:43:LEU:CD2	2.46	0.46
1:U:86:VAL:HG13	1:U:98:GLU:CG	2.45	0.46
1:gg:20:LEU:HB3	1:gg:58:THR:HG21	1.96	0.46
1:gJ:12:HIS:CE1	1:gJ:111:LEU:HD21	2.50	0.46
1:gP:12:HIS:CD2	1:gP:115:ILE:HD11	2.51	0.46
1:ig:159:GLU:CD	1:ig:167:ARG:HH22	2.24	0.46
1:iE:117:TRP:CD1	1:iE:124:ILE:HD12	2.50	0.46
1:iY:154:ARG:HA	1:iY:193:ASN:HB3	1.97	0.46
1:1T:80:TRP:CZ2	1:1T:84:HIS:CE1	3.03	0.46
1:jZ:151:LEU:CD2	1:1m:151:LEU:HD22	2.46	0.46
1:kM:15:ILE:HG21	1:kM:20:LEU:HD21	1.97	0.46
1:l4:162:ARG:NH1	1:l4:219:GLN:HE22	2.13	0.46
1:lC:80:TRP:CZ2	1:lC:84:HIS:CE1	3.03	0.46
1:lI:4:GLN:HA	1:lI:10:MET:HA	1.98	0.46
1:2G:48:THR:HG22	1:2G:118:MET:HE1	1.97	0.46
1:2S:80:TRP:CE2	1:2S:84:HIS:HE1	2.34	0.46
1:3o:105:ALA:HA	1:3o:130:TYR:CE1	2.49	0.46
1:3t:83:LEU:HD23	1:3t:84:HIS:CE1	2.50	0.46
1:44:120:HIS:CG	1:44:121:ASN:H	2.32	0.46
1:4B:86:VAL:HG13	1:4B:98:GLU:HB2	1.97	0.46
1:5x:168:PHE:CE2	1:5x:172:LEU:HD21	2.50	0.46
1:5F:5:ASN:HD21	1:5F:11:VAL:HG12	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5O:215:MET:HE1	1:5T:64:ALA:HB1	1.95	0.46
1:81:37:ILE:N	1:81:37:ILE:HD12	2.31	0.46
1:8f:33:SER:O	1:8f:36:VAL:HG12	2.15	0.46
1:8o:104:ILE:HG21	1:8o:133:TRP:CH2	2.50	0.46
1:9R:150:ILE:HD11	1:9R:168:PHE:CE1	2.51	0.46
1:9V:76:GLU:HB3	1:9V:133:TRP:CD1	2.51	0.46
1:ai:4:GLN:HE22	1:ai:10:MET:HE2	1.80	0.46
1:aB:97:ARG:HH12	1:aB:103:ASP:CG	2.24	0.46
1:aJ:184:TRP:CZ2	1:I:185:MET:HE1	2.51	0.46
1:b4:111:LEU:HD11	1:b4:115:ILE:HD11	1.96	0.46
1:bt:114:GLN:HA	1:bt:117:TRP:CE3	2.50	0.46
1:cL:87:HIS:CE1	1:cL:89:GLY:HA3	2.51	0.46
1:C:7:GLN:HE21	1:C:7:GLN:HA	1.81	0.46
1:gF:91:ILE:HD12	1:gF:91:ILE:HA	1.80	0.46
1:hQ:115:ILE:CG2	1:hR:7:GLN:HE22	2.28	0.46
1:if:165:VAL:HG22	1:if:190:LEU:HD11	1.98	0.46
1:ky:104:ILE:HD13	1:ky:129:ILE:HG21	1.97	0.46
1:ls:229:ARG:HH22	1:lt:231:LEU:C	2.24	0.46
1:2N:20:LEU:O	1:2N:24:VAL:HG23	2.16	0.46
1:2U:10:MET:HE1	1:2U:120:HIS:O	2.15	0.46
1:3H:39:MET:HE3	1:3H:43:LEU:HD21	1.97	0.46
1:4d:1:PRO:H3	1:4d:51:ASP:CG	2.23	0.46
1:8f:40:PHE:CZ	1:8f:134:ILE:HG21	2.50	0.46
1:9r:161:PHE:CE1	1:9r:202:LEU:HD11	2.50	0.46
1:aA:203:LYS:HA	1:bC:201:ILE:HD11	1.97	0.46
1:cg:168:PHE:CD2	1:cg:190:LEU:HD13	2.51	0.46
1:cD:97:ARG:HH21	1:cD:113:GLU:CD	2.23	0.46
1:1p:117:TRP:CE3	1:1p:126:VAL:HG11	2.49	0.46
1:eC:79:GLU:CD	1:eC:82:ARG:HE	2.24	0.46
1:fu:120:HIS:CG	1:fu:121:ASN:N	2.83	0.46
1:gX:1:PRO:HA	1:gX:46:GLY:O	2.14	0.46
1:hR:111:LEU:HD13	1:hR:111:LEU:C	2.40	0.46
1:hU:37:ILE:HG23	1:hU:135:ILE:HG12	1.98	0.46
1:j5:150:ILE:HD11	1:j5:189:LEU:HD11	1.98	0.46
1:lG:150:ILE:HD11	1:lG:168:PHE:CE1	2.51	0.46
1:2I:166:ASP:CG	1:2I:170:LYS:HZ1	2.24	0.46
1:35:172:LEU:HD11	1:35:182:LYS:HG2	1.97	0.46
1:3B:31:ALA:O	1:3B:36:VAL:HG11	2.15	0.46
1:5P:100:ARG:H	1:5P:103:ASP:HB2	1.81	0.46
1:68:9:GLN:HA	1:68:9:GLN:HE21	1.80	0.46
1:6s:11:VAL:HG22	1:6s:12:HIS:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6J:178:SER:O	1:6J:181:VAL:HB	2.16	0.46
1:6K:37:ILE:HD12	1:6K:135:ILE:HG23	1.98	0.46
1:7G:128:GLU:HB3	1:7G:132:ARG:NH1	2.31	0.46
1:9t:24:VAL:HG22	1:9t:59:VAL:HG22	1.96	0.46
1:cl:54:THR:HA	1:cl:57:ASN:HB2	1.96	0.46
1:de:161:PHE:H	1:de:218:CYS:HB2	1.81	0.46
1:1r:98:GLU:CD	1:1r:100:ARG:HH12	2.23	0.46
1:eB:48:THR:HA	1:eB:118:MET:HE1	1.96	0.46
1:eJ:76:GLU:HB3	1:eJ:133:TRP:CD2	2.50	0.46
1:O:186:THR:O	1:O:190:LEU:HB3	2.15	0.46
1:ga:3:VAL:HG12	1:ga:4:GLN:N	2.30	0.46
1:hj:165:VAL:HG22	1:hj:190:LEU:HD11	1.98	0.46
1:hD:99:PRO:HG3	1:hD:124:ILE:HG21	1.98	0.46
1:ii:187:GLU:HG2	1:ii:188:THR:N	2.31	0.46
1:jk:185:MET:SD	1:lv:184:TRP:CZ3	3.08	0.46
1:1X:97:ARG:HE	1:1X:113:GLU:CD	2.24	0.46
1:kR:31:ALA:O	1:kR:36:VAL:HG11	2.15	0.46
1:l4:162:ARG:HH21	1:l4:163:ASP:CG	2.24	0.46
1:lj:40:PHE:CZ	1:lj:134:ILE:HG21	2.51	0.46
1:lD:145:TYR:CZ	1:lE:215:MET:HE2	2.51	0.46
1:2O:165:VAL:HG22	1:2O:190:LEU:HD11	1.98	0.46
1:41:162:ARG:CZ	1:41:221:VAL:HG11	2.46	0.46
1:4n:10:MET:SD	1:4n:115:ILE:HG22	2.56	0.46
1:52:23:TRP:CD2	1:52:43:LEU:HD22	2.51	0.46
1:5p:33:SER:O	1:5p:36:VAL:HG12	2.16	0.46
1:5x:165:VAL:HA	1:5x:168:PHE:HB3	1.97	0.46
1:5L:81:ASP:CG	1:5L:101:GLY:H	2.24	0.46
1:6b:117:TRP:CE3	1:6b:126:VAL:HG11	2.50	0.46
1:76:68:MET:HE1	1:76:141:ILE:HA	1.98	0.46
1:7d:9:GLN:HB3	1:7e:6:LEU:HD11	1.98	0.46
1:8b:84:HIS:HA	1:8b:85:PRO:HD2	1.87	0.46
1:98:63:GLN:HG3	1:99:170:LYS:HA	1.98	0.46
1:9J:80:TRP:CE2	1:9J:104:ILE:HD12	2.51	0.46
1:9L:32:PHE:CZ	1:9L:62:HIS:HE1	2.33	0.46
1:9T:161:PHE:CD1	1:9T:194:ALA:HB2	2.50	0.46
1:ax:2:ILE:HD13	1:ax:2:ILE:H	1.80	0.46
1:b6:156:GLY:H	1:b6:159:GLU:CD	2.24	0.46
1:bg:190:LEU:C	1:bg:190:LEU:HD23	2.41	0.46
1:bv:220:GLY:H	1:bv:226:HIS:CD2	2.34	0.46
1:c3:151:LEU:HD21	1:cY:151:LEU:HD22	1.97	0.46
1:c6:2:ILE:HD11	1:c6:115:ILE:HG12	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ca:210:THR:HG23	1:ca:213:GLU:H	1.81	0.46
1:cN:181:VAL:HG12	1:cN:185:MET:HE2	1.98	0.46
1:1h:40:PHE:CZ	1:1h:134:ILE:HG21	2.50	0.46
1:eC:120:HIS:CG	1:eC:121:ASN:N	2.83	0.46
1:eO:138:LEU:HA	1:eO:141:ILE:HD12	1.97	0.46
1:K:185:MET:SD	1:K:189:LEU:HD23	2.56	0.46
1:gl:138:LEU:O	1:gl:142:VAL:HG23	2.16	0.46
1:1F:83:LEU:HD23	1:1F:84:HIS:CE1	2.51	0.46
1:1J:124:ILE:N	1:1J:124:ILE:HD12	2.31	0.46
1:i3:12:HIS:HB2	1:i3:115:ILE:HD11	1.98	0.46
1:21:72:THR:HG21	1:21:137:GLY:HA2	1.97	0.46
1:kO:191:VAL:HG12	1:kO:202:LEU:HD22	1.98	0.46
1:l3:97:ARG:HH22	1:l3:103:ASP:CG	2.24	0.46
1:2G:26:VAL:HG21	1:2G:39:MET:HE3	1.97	0.46
1:3w:32:PHE:CE1	1:3w:145:TYR:CD1	3.04	0.46
1:7V:15:ILE:HG21	1:7V:54:THR:HG21	1.98	0.46
1:8p:70:LYS:HA	1:8p:73:ILE:HG12	1.98	0.46
1:9Y:6:LEU:HD12	1:9Y:6:LEU:N	2.30	0.46
1:bv:120:HIS:CG	1:bv:121:ASN:N	2.84	0.46
1:bL:124:ILE:HG22	1:bL:126:VAL:HG23	1.98	0.46
1:bX:104:ILE:HG22	1:bX:133:TRP:CZ3	2.51	0.46
1:c1:80:TRP:CZ3	1:c1:83:LEU:HD22	2.51	0.46
1:c2:181:VAL:HG22	1:cb:181:VAL:HG22	1.96	0.46
1:c5:148:THR:HG21	1:c5:153:ILE:HA	1.98	0.46
1:dq:69:LEU:O	1:dq:73:ILE:HG13	2.16	0.46
1:dw:165:VAL:CG1	1:dw:169:TYR:CE1	2.99	0.46
1:1n:80:TRP:CE2	1:1n:84:HIS:CE1	3.04	0.46
1:ep:155:GLN:HB2	1:ep:164:TYR:CD1	2.51	0.46
1:fA:20:LEU:HD21	1:fA:54:THR:HG22	1.98	0.46
1:g5:143:ARG:HH12	1:g5:175:GLU:CD	2.23	0.46
1:s:183:ASN:HA	1:s:186:THR:HG22	1.98	0.46
1:O:73:ILE:HD12	1:O:130:TYR:CE2	2.49	0.46
1:hb:80:TRP:CZ2	1:hb:84:HIS:CE1	3.04	0.46
1:ho:95:GLN:NE2	1:ho:95:GLN:HA	2.30	0.46
1:hs:161:PHE:O	1:hs:165:VAL:HG23	2.16	0.46
1:hL:47:ALA:HB1	1:hL:51:ASP:HB2	1.97	0.46
1:if:27:VAL:HG12	1:if:62:HIS:CD2	2.50	0.46
1:jC:34:PRO:HG3	1:jC:142:VAL:HG11	1.98	0.46
1:jF:161:PHE:CE2	1:jF:214:MET:HB3	2.51	0.46
1:ll:24:VAL:HA	1:ll:59:VAL:HG12	1.97	0.46
1:lm:1:PRO:HA	1:lm:46:GLY:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:lt:201:ILE:HD11	1:lt:205:LEU:HD12	1.97	0.46
1:2t:96:MET:HB2	1:2t:120:HIS:CE1	2.51	0.46
1:4k:87:HIS:C	1:4k:87:HIS:CD2	2.94	0.46
1:4t:125:PRO:HB2	1:4t:128:GLU:HB2	1.98	0.46
1:4t:150:ILE:HG23	1:4t:151:LEU:HG	1.98	0.46
1:78:83:LEU:CD2	1:78:84:HIS:CE1	2.95	0.46
1:81:220:GLY:HA2	1:81:226:HIS:CD2	2.50	0.46
1:8e:20:LEU:HD23	1:8e:55:MET:HG2	1.98	0.46
1:9m:72:THR:HG21	1:9m:137:GLY:CA	2.46	0.46
1:a8:146:SER:HB3	1:a8:147:PRO:HD3	1.97	0.46
1:aB:169:TYR:O	1:aB:173:ARG:HB2	2.15	0.46
1:aY:48:THR:HB	1:aY:49:PRO:HD2	1.98	0.46
1:b8:138:LEU:HA	1:b8:141:ILE:HD12	1.98	0.46
1:bm:48:THR:HB	1:bm:49:PRO:HD2	1.98	0.46
1:dg:80:TRP:CH2	1:dg:84:HIS:CE1	3.04	0.46
1:dA:120:HIS:CG	1:dA:121:ASN:N	2.83	0.46
1:ex:203:LYS:HD3	1:e:220:GLY:HA3	1.98	0.46
1:fh:115:ILE:HD13	1:fh:115:ILE:HA	1.88	0.46
1:fv:34:PRO:HG2	1:fv:173:ARG:HG2	1.97	0.46
1:fG:76:GLU:HB3	1:fG:133:TRP:CE2	2.51	0.46
1:2:36:VAL:HG11	1:2:138:LEU:HD22	1.97	0.46
1:1D:111:LEU:HD23	1:1y:6:LEU:HD23	1.98	0.46
1:hg:80:TRP:CZ2	1:hg:84:HIS:CE1	3.04	0.46
1:hj:95:GLN:HA	1:hj:95:GLN:NE2	2.31	0.46
1:iv:23:TRP:CZ3	1:iv:40:PHE:HB2	2.51	0.46
1:iE:144:MET:SD	1:iF:216:THR:HA	2.56	0.46
1:lm:120:HIS:CG	1:lm:121:ASN:H	2.34	0.46
1:lA:40:PHE:CZ	1:lA:134:ILE:HG21	2.51	0.46
1:lA:52:LEU:HD22	1:lA:134:ILE:HD12	1.98	0.46
1:3b:31:ALA:HB1	1:3b:62:HIS:CE1	2.51	0.46
1:3O:141:ILE:HA	1:3O:144:MET:HB3	1.98	0.46
1:4w:104:ILE:HD13	1:4w:126:VAL:HG12	1.98	0.46
1:4B:91:ILE:HD12	1:4B:91:ILE:HA	1.87	0.46
1:52:134:ILE:H	1:52:134:ILE:HG13	1.63	0.46
1:5n:161:PHE:O	1:5n:165:VAL:HG23	2.16	0.46
1:5p:80:TRP:CZ2	1:5p:84:HIS:CE1	3.04	0.46
1:5C:23:TRP:CD2	1:5C:43:LEU:HD22	2.51	0.46
1:5U:80:TRP:CZ2	1:5U:84:HIS:HE1	2.34	0.46
1:72:117:TRP:CE3	1:72:126:VAL:HG11	2.51	0.46
1:7g:124:ILE:HD12	1:7g:124:ILE:N	2.31	0.46
1:7H:87:HIS:HB2	1:7H:91:ILE:HD11	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7O:122:PRO:HG2	1:7O:124:ILE:HD11	1.98	0.46
1:8B:138:LEU:O	1:8B:142:VAL:HG23	2.16	0.46
1:8X:181:VAL:HG11	1:aE:184:TRP:CG	2.51	0.46
1:9a:185:MET:SD	1:9a:189:LEU:HD22	2.56	0.46
1:9U:124:ILE:HG22	1:9U:126:VAL:HG23	1.98	0.46
1:a2:165:VAL:HG13	1:a2:169:TYR:CD2	2.51	0.46
1:13:161:PHE:CE1	1:13:202:LEU:HD11	2.51	0.46
1:bf:2:ILE:HG12	1:bf:12:HIS:CD2	2.51	0.46
1:bt:105:ALA:HA	1:bt:130:TYR:CD1	2.51	0.46
1:bu:68:MET:HE2	1:bu:144:MET:CE	2.46	0.46
1:1c:165:VAL:HG12	1:1c:169:TYR:CE1	2.51	0.46
1:cr:65:ALA:HB1	1:cr:141:ILE:HG12	1.98	0.46
1:cs:120:HIS:CG	1:cs:121:ASN:N	2.83	0.46
1:cy:68:MET:O	1:cy:68:MET:HE3	2.16	0.46
1:1h:2:ILE:HD11	1:1h:115:ILE:HG12	1.98	0.46
1:d1:37:ILE:H	1:d1:37:ILE:HD12	1.80	0.46
1:et:48:THR:HA	1:et:118:MET:HE1	1.98	0.46
1:ew:47:ALA:HB1	1:ew:51:ASP:HB2	1.97	0.46
1:1s:80:TRP:CE3	1:1s:84:HIS:CE1	3.04	0.46
1:fb:96:MET:CE	1:fb:120:HIS:CD2	2.99	0.46
1:fi:4:GLN:OE1	1:fi:4:GLN:HA	2.14	0.46
1:fH:154:ARG:HH12	1:fI:231:LEU:C	2.23	0.46
1:g1:168:PHE:CD2	1:g1:190:LEU:HD13	2.51	0.46
1:O:26:VAL:HG21	1:O:39:MET:HG2	1.98	0.46
1:S:97:ARG:HH22	1:S:103:ASP:CG	2.24	0.46
1:1G:162:ARG:HB3	1:1G:215:MET:HE1	1.98	0.45
1:h9:150:ILE:HD11	1:h9:168:PHE:CD2	2.51	0.45
1:1K:211:LEU:HD12	1:1K:214:MET:HB2	1.97	0.45
1:hV:163:ASP:CG	1:hV:167:ARG:HE	2.24	0.45
1:kw:62:HIS:CE1	1:kw:65:ALA:H	2.33	0.45
1:kx:23:TRP:CD1	1:kx:55:MET:HG3	2.50	0.45
1:kz:63:GLN:HA	1:kz:66:MET:HB2	1.98	0.45
1:lv:6:LEU:CD2	1:lv:118:MET:HE3	2.46	0.45
1:lI:110:THR:HG23	1:lI:113:GLU:H	1.81	0.45
1:2m:87:HIS:CE1	1:2m:91:ILE:HD13	2.51	0.45
1:2n:34:PRO:HA	1:2n:37:ILE:HD12	1.98	0.45
1:69:55:MET:O	1:69:58:THR:HG22	2.16	0.45
1:73:40:PHE:CZ	1:73:134:ILE:HG21	2.51	0.45
1:8A:227:LYS:HA	1:8A:230:VAL:HG13	1.97	0.45
1:8L:168:PHE:CD2	1:8L:190:LEU:HD13	2.51	0.45
1:9v:150:ILE:HD13	1:9v:172:LEU:HD21	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:al:120:HIS:CG	1:al:121:ASN:N	2.84	0.45
1:bo:40:PHE:HA	1:bo:43:LEU:HD12	1.97	0.45
1:bN:150:ILE:HG22	1:bN:189:LEU:HD13	1.98	0.45
1:cy:181:VAL:HG12	1:cy:185:MET:HE3	1.97	0.45
1:cB:148:THR:HG22	1:cB:171:THR:HG23	1.98	0.45
1:cE:70:LYS:HA	1:cE:73:ILE:HD12	1.98	0.45
1:cF:12:HIS:HE1	1:cF:51:ASP:OD1	1.99	0.45
1:cT:120:HIS:CG	1:cT:121:ASN:H	2.34	0.45
1:cX:104:ILE:HD13	1:cX:126:VAL:HG13	1.98	0.45
1:cX:201:ILE:HG21	1:cX:217:ALA:CB	2.46	0.45
1:dm:65:ALA:HB1	1:dm:141:ILE:HD12	1.97	0.45
1:e4:22:ALA:O	1:e4:26:VAL:HG23	2.16	0.45
1:en:13:GLN:HE21	1:en:13:GLN:CA	2.26	0.45
1:fL:191:VAL:HG22	1:fL:202:LEU:HD13	1.99	0.45
1:o:97:ARG:HE	1:o:113:GLU:CD	2.23	0.45
1:J:35:GLU:CD	1:J:173:ARG:HH22	2.24	0.45
1:Q:120:HIS:CG	1:Q:121:ASN:N	2.84	0.45
1:gf:80:TRP:CZ2	1:gf:84:HIS:CE1	3.04	0.45
1:gm:56:LEU:HD22	1:gm:69:LEU:HD21	1.98	0.45
1:hu:43:LEU:HB3	1:hu:55:MET:HE1	1.99	0.45
1:hw:68:MET:HE2	1:hx:211:LEU:HD23	1.98	0.45
1:hz:181:VAL:HG21	1:6i:184:TRP:CG	2.51	0.45
1:hC:1:PRO:O	1:hC:12:HIS:CD2	2.69	0.45
1:jb:148:THR:HG21	1:jb:153:ILE:HD13	1.97	0.45
1:1Z:198:CYS:O	1:1Z:202:LEU:HG	2.15	0.45
1:kg:231:LEU:H	1:kk:200:THR:CG2	2.26	0.45
1:5o:97:ARG:HH21	1:5o:113:GLU:CD	2.23	0.45
1:6p:73:ILE:HD11	1:6p:134:ILE:HG12	1.98	0.45
1:6r:158:LYS:HA	1:6r:158:LYS:HD3	1.81	0.45
1:6B:40:PHE:CZ	1:6B:134:ILE:HG21	2.52	0.45
1:7q:35:GLU:H	1:7q:35:GLU:CD	2.24	0.45
1:89:17:PRO:HB3	1:8a:43:LEU:HD21	1.98	0.45
1:8y:160:PRO:C	1:8y:162:ARG:H	2.25	0.45
1:9L:32:PHE:CZ	1:9L:62:HIS:CE1	3.03	0.45
1:a6:24:VAL:HG13	1:a6:59:VAL:HA	1.99	0.45
1:ak:104:ILE:HD13	1:ak:129:ILE:HG21	1.97	0.45
1:cC:193:ASN:HD21	1:cK:151:LEU:HD22	1.81	0.45
1:cH:80:TRP:CH2	1:cH:129:ILE:HD13	2.52	0.45
1:em:97:ARG:HH22	1:em:103:ASP:CG	2.24	0.45
1:eI:6:LEU:HD22	1:eN:112:GLN:HB2	1.98	0.45
1:h:185:MET:HA	1:h:189:LEU:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:20:LEU:O	1:m:24:VAL:HG23	2.15	0.45
1:R:212:GLU:HG3	1:S:144:MET:HE1	1.98	0.45
1:X:223:GLY:HA2	1:X:224:PRO:HD3	1.80	0.45
1:gc:56:LEU:HD23	1:gc:56:LEU:HA	1.78	0.45
1:1E:87:HIS:HE1	1:1E:90:PRO:O	1.98	0.45
1:hc:201:ILE:HB	1:hc:218:CYS:SG	2.57	0.45
1:hj:165:VAL:HG11	1:hj:211:LEU:HD21	1.98	0.45
1:hk:24:VAL:HG12	1:hk:59:VAL:HA	1.98	0.45
1:1J:37:ILE:H	1:1J:37:ILE:HD12	1.81	0.45
1:hC:120:HIS:CG	1:hC:121:ASN:N	2.84	0.45
1:hM:120:HIS:CG	1:hM:121:ASN:N	2.84	0.45
1:jr:32:PHE:HB2	1:jr:141:ILE:HG21	1.99	0.45
1:2s:52:LEU:HD22	1:2s:134:ILE:HD12	1.98	0.45
1:2v:87:HIS:CE1	1:2v:91:ILE:HD13	2.51	0.45
1:3e:17:PRO:HG3	1:3f:43:LEU:HD23	1.98	0.45
1:3R:117:TRP:CD1	1:3R:124:ILE:HD12	2.51	0.45
1:4M:2:ILE:HD12	1:4M:118:MET:HE2	1.98	0.45
1:5d:104:ILE:HG21	1:5d:133:TRP:CZ2	2.51	0.45
1:5r:65:ALA:HB1	1:5r:141:ILE:HD13	1.99	0.45
1:5F:23:TRP:CZ3	1:5F:40:PHE:HB2	2.52	0.45
1:62:165:VAL:HG22	1:62:190:LEU:HD22	1.99	0.45
1:8x:99:PRO:HB3	1:8x:117:TRP:CZ3	2.51	0.45
1:8V:154:ARG:HH12	1:8W:231:LEU:C	2.25	0.45
1:92:4:GLN:CD	1:92:4:GLN:H	2.24	0.45
1:97:149:SER:HB3	1:97:152:ASP:CG	2.41	0.45
1:9Q:154:ARG:HA	1:9Q:193:ASN:HB3	1.98	0.45
1:a9:104:ILE:HD13	1:a9:126:VAL:HG12	1.98	0.45
1:16:20:LEU:C	1:16:20:LEU:HD23	2.42	0.45
1:bd:44:SER:HB2	1:bd:52:LEU:HD21	1.98	0.45
1:bt:198:CYS:HA	1:bt:221:VAL:HG21	1.98	0.45
1:1a:47:ALA:HB1	1:1a:51:ASP:HB2	1.98	0.45
1:1f:80:TRP:CE2	1:1f:84:HIS:CE1	3.04	0.45
1:cD:87:HIS:CE1	1:cD:91:ILE:HD13	2.51	0.45
1:ew:165:VAL:HG22	1:ew:190:LEU:HD11	1.99	0.45
1:1u:63:GLN:O	1:1u:67:GLN:HG2	2.16	0.45
1:fx:81:ASP:CG	1:fx:101:GLY:H	2.24	0.45
1:fx:181:VAL:HG22	1:l:181:VAL:HA	1.98	0.45
1:fy:11:VAL:CG1	1:fy:13:GLN:HE21	2.29	0.45
1:fM:64:ALA:HB2	1:fN:165:VAL:HG12	1.98	0.45
1:a:27:VAL:HA	1:a:31:ALA:HA	1.97	0.45
1:gx:165:VAL:HG12	1:gx:169:TYR:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h1:192:GLN:OE1	1:h1:192:GLN:HA	2.16	0.45
1:h7:151:LEU:H	1:h7:151:LEU:CD1	2.29	0.45
1:hO:24:VAL:HG22	1:hO:59:VAL:HA	1.99	0.45
1:jz:159:GLU:CD	1:jz:167:ARG:HH22	2.24	0.45
1:kc:99:PRO:HG2	1:kc:124:ILE:HG21	1.99	0.45
1:24:142:VAL:O	1:24:146:SER:HB2	2.16	0.45
1:kT:150:ILE:HG21	1:kT:185:MET:SD	2.56	0.45
1:lu:219:GLN:HB3	1:lu:231:LEU:HD13	1.98	0.45
1:2f:97:ARG:HH22	1:2f:103:ASP:CG	2.25	0.45
1:2H:160:PRO:O	1:2H:161:PHE:HB3	2.17	0.45
1:2L:69:LEU:HD13	1:2L:137:GLY:HA3	1.98	0.45
1:2V:120:HIS:CG	1:2V:121:ASN:H	2.34	0.45
1:2Y:54:THR:HG23	1:2Z:42:ALA:HB2	1.98	0.45
1:33:161:PHE:CE1	1:33:202:LEU:HD11	2.51	0.45
1:3p:154:ARG:O	1:3q:231:LEU:HD23	2.17	0.45
1:4c:68:MET:HE2	1:4c:144:MET:HE1	1.99	0.45
1:4o:196:PRO:HA	1:4o:199:LYS:HB3	1.99	0.45
1:5C:120:HIS:CE1	1:5C:124:ILE:HD11	2.51	0.45
1:66:65:ALA:HB2	1:66:145:TYR:CE2	2.51	0.45
1:6W:209:ALA:HB3	1:6W:214:MET:HE2	1.99	0.45
1:7f:138:LEU:O	1:7f:142:VAL:HG23	2.16	0.45
1:7F:19:THR:HG23	1:7F:43:LEU:HD22	1.97	0.45
1:8r:150:ILE:HA	1:8r:171:THR:HG21	1.97	0.45
1:90:120:HIS:CG	1:90:121:ASN:N	2.84	0.45
1:97:159:GLU:CD	1:97:167:ARG:HH12	2.25	0.45
1:9M:73:ILE:HD11	1:9M:134:ILE:HA	1.97	0.45
1:al:22:ALA:O	1:al:26:VAL:HG23	2.15	0.45
1:ay:110:THR:HG21	1:az:123:PRO:HD2	1.99	0.45
1:13:114:GLN:HA	1:13:117:TRP:CE3	2.51	0.45
1:aH:11:VAL:HG12	1:aH:13:GLN:HE21	1.81	0.45
1:bn:20:LEU:O	1:bn:24:VAL:HG23	2.17	0.45
1:1a:39:MET:HA	1:1f:58:THR:HG22	1.98	0.45
1:bV:165:VAL:HG13	1:bV:169:TYR:CE1	2.52	0.45
1:ch:40:PHE:CZ	1:ch:134:ILE:HG21	2.52	0.45
1:d7:72:THR:HG21	1:d7:137:GLY:HA2	1.99	0.45
1:1m:152:ASP:CG	1:1n:229:ARG:HH21	2.24	0.45
1:1o:12:HIS:CE1	1:1o:115:ILE:HD11	2.52	0.45
1:eu:120:HIS:CG	1:eu:121:ASN:N	2.84	0.45
1:fr:168:PHE:CD2	1:fr:190:LEU:HD13	2.51	0.45
1:0:125:PRO:HB2	1:0:128:GLU:HB2	1.98	0.45
1:u:2:ILE:HD11	1:u:10:MET:HB3	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gp:165:VAL:HG22	1:gp:190:LEU:HD11	1.99	0.45
1:gz:69:LEU:CD1	1:gz:138:LEU:HD23	2.47	0.45
1:h0:24:VAL:HG23	1:h0:59:VAL:HG22	1.99	0.45
1:1J:184:TRP:CD1	1:1A:177:ALA:HA	2.51	0.45
1:hK:177:ALA:HB2	1:hT:184:TRP:CD1	2.52	0.45
1:ia:80:TRP:CZ2	1:ia:84:HIS:CE1	3.05	0.45
1:1T:37:ILE:H	1:1T:37:ILE:HD12	1.81	0.45
1:jH:223:GLY:O	1:jH:226:HIS:HD2	1.99	0.45
1:l8:21:ASN:HA	1:l8:24:VAL:HG12	1.98	0.45
1:lv:66:MET:HE3	1:lv:66:MET:HB3	1.66	0.45
1:3c:138:LEU:HA	1:3c:141:ILE:HD12	1.98	0.45
1:3y:168:PHE:CD2	1:3y:190:LEU:HD12	2.51	0.45
1:5y:2:ILE:HG23	1:5z:6:LEU:HD11	1.99	0.45
1:5Z:196:PRO:HA	1:5Z:199:LYS:HB3	1.99	0.45
1:66:191:VAL:HG23	1:66:202:LEU:HB3	1.99	0.45
1:6M:6:LEU:HD11	1:6R:111:LEU:HD23	1.99	0.45
1:7k:185:MET:HE1	1:9j:184:TRP:CZ3	2.51	0.45
1:88:127:GLY:O	1:88:131:LYS:HB2	2.15	0.45
1:8N:27:VAL:HG11	1:8N:59:VAL:HG11	1.97	0.45
1:Y:3:VAL:HG22	1:Y:13:GLN:HG2	1.98	0.45
1:13:59:VAL:HG11	1:13:66:MET:HE3	1.99	0.45
1:aK:37:ILE:HB	1:aK:38:PRO:HD3	1.98	0.45
1:bg:190:LEU:HD23	1:bg:190:LEU:O	2.16	0.45
1:bl:56:LEU:HD22	1:bl:66:MET:HE1	1.98	0.45
1:bx:80:TRP:CE2	1:bx:84:HIS:CE1	3.05	0.45
1:cv:68:MET:HG3	1:cw:211:LEU:HD23	1.99	0.45
1:1j:126:VAL:HA	1:1j:129:ILE:HD12	1.99	0.45
1:eM:161:PHE:O	1:eM:165:VAL:HG12	2.16	0.45
1:fj:12:HIS:CG	1:fj:111:LEU:HD13	2.52	0.45
1:g1:150:ILE:HD11	1:g1:168:PHE:CE1	2.51	0.45
1:hj:77:ALA:HA	1:hj:133:TRP:CH2	2.52	0.45
1:hH:40:PHE:CZ	1:hH:134:ILE:HG21	2.51	0.45
1:iD:151:LEU:HD22	1:9u:189:LEU:HD13	1.98	0.45
1:j9:47:ALA:HB1	1:j9:51:ASP:HB2	1.98	0.45
1:jD:26:VAL:HG12	1:jD:36:VAL:HG13	1.98	0.45
1:1X:87:HIS:CG	1:1X:98:GLU:HB2	2.52	0.45
1:jR:27:VAL:O	1:jR:31:ALA:HA	2.17	0.45
1:lC:154:ARG:HH21	1:lG:231:LEU:C	2.24	0.45
1:2Y:69:LEU:HD23	1:2Y:73:ILE:HD12	1.98	0.45
1:3s:104:ILE:HG21	1:3s:129:ILE:HG22	1.97	0.45
1:42:47:ALA:O	1:42:127:GLY:HA3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4v:56:LEU:HD11	1:4v:134:ILE:HD11	1.99	0.45
1:4R:10:MET:HE2	1:4R:10:MET:HB2	1.87	0.45
1:4U:162:ARG:HH21	1:4U:163:ASP:CG	2.25	0.45
1:5i:119:THR:HG21	1:5j:5:ASN:CB	2.46	0.45
1:5Z:80:TRP:CZ2	1:5Z:84:HIS:CE1	3.05	0.45
1:8u:164:TYR:OH	1:8u:193:ASN:HB2	2.17	0.45
1:8S:49:PRO:HG3	1:8S:126:VAL:HG12	1.98	0.45
1:9a:97:ARG:HH22	1:9a:103:ASP:CG	2.25	0.45
1:9f:179:GLN:OE1	1:9f:182:LYS:HD2	2.17	0.45
1:9D:120:HIS:CG	1:9D:121:ASN:H	2.35	0.45
1:al:120:HIS:CG	1:al:121:ASN:H	2.34	0.45
1:ax:56:LEU:HD23	1:ax:56:LEU:HA	1.83	0.45
1:b8:162:ARG:HA	1:b8:215:MET:HE1	1.98	0.45
1:cp:176:GLN:HA	1:cp:176:GLN:OE1	2.17	0.45
1:1h:194:ALA:HB3	1:1h:199:LYS:HB2	1.99	0.45
1:dh:165:VAL:HG13	1:dh:166:ASP:N	2.31	0.45
1:dV:37:ILE:HB	1:dV:38:PRO:HD3	1.98	0.45
1:ek:152:ASP:CG	1:el:229:ARG:HE	2.24	0.45
1:ey:44:SER:CB	1:ey:131:LYS:HD3	2.47	0.45
1:eB:35:GLU:CD	1:eB:35:GLU:H	2.24	0.45
1:eL:17:PRO:HG2	1:eM:19:THR:HG23	1.98	0.45
1:f7:104:ILE:HA	1:f7:126:VAL:HG13	1.99	0.45
1:g2:24:VAL:HG21	1:g2:58:THR:HG22	1.98	0.45
1:m:181:VAL:HG12	1:m:185:MET:HE3	1.98	0.45
1:hi:98:GLU:HA	1:hi:99:PRO:HD3	1.82	0.45
1:iz:157:PRO:HA	1:iz:195:ASN:HB2	1.98	0.45
1:iE:32:PHE:CZ	1:iF:230:VAL:HG21	2.52	0.45
1:jh:154:ARG:HH21	1:ji:231:LEU:C	2.24	0.45
1:jv:201:ILE:CD1	1:jv:218:CYS:H	2.30	0.45
1:lv:64:ALA:CB	1:lw:165:VAL:HG23	2.47	0.45
1:2j:161:PHE:CE2	1:2j:214:MET:HB3	2.52	0.45
1:2q:229:ARG:HH21	1:2v:152:ASP:CG	2.25	0.45
1:5a:181:VAL:HA	1:5p:181:VAL:HG22	1.99	0.45
1:6V:181:VAL:HG12	1:6V:185:MET:HE3	1.99	0.45
1:6V:219:GLN:NE2	1:6V:219:GLN:HA	2.32	0.45
1:7b:165:VAL:HG13	1:7b:190:LEU:HD11	1.98	0.45
1:8J:185:MET:HG2	1:8J:189:LEU:HD22	1.98	0.45
1:9b:2:ILE:HD12	1:9b:115:ILE:HG13	1.99	0.45
1:9k:32:PHE:HA	1:9k:142:VAL:HG22	1.99	0.45
1:9W:14:ALA:HB2	1:9X:45:GLU:HG2	1.99	0.45
1:aO:205:LEU:HD11	1:aO:217:ALA:CB	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bA:31:ALA:HB2	1:bA:62:HIS:CE1	2.52	0.45
1:cG:96:MET:HG2	1:cG:120:HIS:CD2	2.52	0.45
1:1h:65:ALA:HA	1:1h:144:MET:HE1	1.98	0.45
1:dB:92:GLU:HB3	1:dB:93:PRO:HD2	1.98	0.45
1:e0:104:ILE:HG21	1:e0:133:TRP:CZ3	2.52	0.45
1:e5:150:ILE:HD11	1:e5:168:PHE:CE1	2.52	0.45
1:em:64:ALA:HB1	1:en:215:MET:HE1	1.99	0.45
1:fg:152:ASP:HA	1:fg:154:ARG:HH21	1.82	0.45
1:fr:160:PRO:HG3	1:fr:231:LEU:HD12	1.98	0.45
1:fs:138:LEU:O	1:fs:142:VAL:HG23	2.16	0.45
1:1A:68:MET:SD	1:1A:144:MET:HE1	2.57	0.45
1:gh:1:PRO:O	1:gh:12:HIS:CD2	2.69	0.45
1:gi:169:TYR:CD1	1:gi:172:LEU:HD23	2.51	0.45
1:gs:169:TYR:CZ	1:gx:67:GLN:HG3	2.51	0.45
1:gt:91:ILE:HG22	1:gt:93:PRO:HD2	1.97	0.45
1:gK:80:TRP:CZ3	1:gK:84:HIS:HE1	2.35	0.45
1:gW:80:TRP:CE2	1:gW:84:HIS:CE1	3.04	0.45
1:h1:49:PRO:HG2	1:h1:126:VAL:HG22	1.99	0.45
1:ht:181:VAL:HG22	1:jK:181:VAL:HA	1.99	0.45
1:1M:37:ILE:H	1:1M:37:ILE:HD12	1.82	0.45
1:iM:20:LEU:HD23	1:iM:55:MET:SD	2.56	0.45
1:iN:165:VAL:HA	1:iN:190:LEU:HD11	1.99	0.45
1:21:177:ALA:HB1	1:21:181:VAL:HG11	1.99	0.45
1:kl:92:GLU:CB	1:kl:93:PRO:HD3	2.47	0.45
1:kA:37:ILE:HD12	1:kA:37:ILE:N	2.32	0.45
1:lh:159:GLU:CD	1:lh:167:ARG:HH21	2.25	0.45
1:lL:130:TYR:CE1	1:lL:134:ILE:HD11	2.52	0.45
1:4b:1:PRO:H3	1:4b:51:ASP:CG	2.25	0.45
1:4G:186:THR:HG21	1:4G:207:PRO:HA	1.98	0.45
1:7w:68:MET:HE2	1:7w:68:MET:HA	1.99	0.45
1:7W:24:VAL:HG22	1:7W:59:VAL:HA	1.98	0.45
1:8h:117:TRP:CD1	1:8h:124:ILE:HD12	2.52	0.45
1:8i:1:PRO:O	1:8i:12:HIS:CD2	2.70	0.45
1:a7:181:VAL:HG11	1:bB:184:TRP:CD2	2.52	0.45
1:ac:97:ARG:HH22	1:ac:103:ASP:CG	2.25	0.45
1:ai:183:ASN:HD22	1:ai:183:ASN:C	2.25	0.45
1:cx:15:ILE:HG12	1:cx:54:THR:HG21	1.99	0.45
1:d0:23:TRP:HB2	1:d0:43:LEU:HD22	1.97	0.45
1:d6:182:LYS:HA	1:d6:185:MET:HB2	1.98	0.45
1:e3:80:TRP:CH2	1:e3:129:ILE:HD13	2.52	0.45
1:eG:202:LEU:HD23	1:eG:202:LEU:HA	1.78	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gl:1:PRO:HA	1:gl:46:GLY:O	2.17	0.45
1:gp:163:ASP:CG	1:gp:229:ARG:HH22	2.25	0.45
1:hD:150:ILE:HD13	1:hD:172:LEU:HD21	1.98	0.45
1:1S:132:ARG:HA	1:1S:135:ILE:HG12	1.99	0.45
1:iX:83:LEU:HD23	1:iX:84:HIS:CE1	2.52	0.45
1:iY:120:HIS:CG	1:iY:121:ASN:H	2.35	0.45
1:jZ:33:SER:O	1:jZ:36:VAL:HG12	2.17	0.45
1:k6:65:ALA:HB2	1:k7:215:MET:HE1	1.99	0.45
1:kU:7:GLN:HE22	1:kZ:11:VAL:CG1	2.30	0.45
1:l0:77:ALA:HB1	1:l0:101:GLY:HA3	1.98	0.45
1:lc:122:PRO:HA	1:lc:123:PRO:HD3	1.93	0.45
1:2g:83:LEU:HD23	1:2g:84:HIS:CE1	2.52	0.45
1:2B:80:TRP:CZ2	1:2B:129:ILE:HD13	2.52	0.45
1:54:35:GLU:OE1	1:54:173:ARG:NH1	2.48	0.45
1:55:120:HIS:CG	1:55:121:ASN:N	2.84	0.45
1:5g:104:ILE:HG21	1:5g:129:ILE:HG22	1.99	0.45
1:5s:97:ARG:HH22	1:5s:103:ASP:CG	2.25	0.45
1:5O:215:MET:CE	1:5T:64:ALA:HB1	2.47	0.45
1:6g:211:LEU:HG	1:6g:215:MET:HE2	1.99	0.45
1:6O:97:ARG:HH21	1:6O:113:GLU:CD	2.24	0.45
1:6Q:87:HIS:HE1	1:6Q:90:PRO:O	1.99	0.45
1:6Y:12:HIS:CE1	1:6Y:111:LEU:HD11	2.52	0.45
1:7v:150:ILE:HG12	1:7v:185:MET:SD	2.57	0.45
1:7F:33:SER:HB2	1:7F:34:PRO:HD2	1.98	0.45
1:7L:104:ILE:CD1	1:7L:126:VAL:HG12	2.47	0.45
1:9m:12:HIS:CE1	1:9m:111:LEU:HD11	2.52	0.45
1:9F:81:ASP:CG	1:9F:100:ARG:HH21	2.25	0.45
1:af:165:VAL:HG13	1:af:190:LEU:HD21	1.99	0.45
1:aq:68:MET:HE3	1:ar:212:GLU:HG3	1.98	0.45
1:aD:12:HIS:CD2	1:aD:48:THR:HG21	2.52	0.45
1:aU:161:PHE:CE1	1:aU:165:VAL:HG21	2.52	0.45
1:bC:11:VAL:HG13	1:bD:7:GLN:OE1	2.17	0.45
1:cQ:181:VAL:HG12	1:cQ:185:MET:HE3	1.99	0.45
1:cR:96:MET:HE2	1:cR:117:TRP:CE2	2.52	0.45
1:dh:100:ARG:H	1:dh:103:ASP:HB2	1.82	0.45
1:du:152:ASP:OD1	1:dv:229:ARG:NH1	2.49	0.45
1:dU:52:LEU:HA	1:dU:55:MET:HE3	1.99	0.45
1:eV:162:ARG:HB2	1:eV:219:GLN:HE22	1.81	0.45
1:f0:165:VAL:HG22	1:f0:190:LEU:HD11	1.98	0.45
1:f6:180:GLU:H	1:f6:180:GLU:CD	2.25	0.45
1:fX:80:TRP:CE2	1:fX:84:HIS:CE1	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2:1:PRO:H3	1:2:51:ASP:CG	2.25	0.45
1:4:83:LEU:HD23	1:4:84:HIS:CE1	2.51	0.45
1:gE:155:GLN:HB2	1:gE:164:TYR:CD2	2.51	0.45
1:gG:153:ILE:HG21	1:gG:168:PHE:HA	1.99	0.45
1:hC:120:HIS:CG	1:hC:121:ASN:H	2.34	0.45
1:hZ:27:VAL:O	1:hZ:31:ALA:HA	2.17	0.45
1:i5:81:ASP:CG	1:i5:101:GLY:H	2.24	0.45
1:it:143:ARG:HH22	1:it:175:GLU:CD	2.25	0.45
1:iU:11:VAL:HG11	1:iV:6:LEU:HD23	1.99	0.45
1:js:95:GLN:OE1	1:js:95:GLN:HA	2.17	0.45
1:k0:210:THR:HG23	1:k0:213:GLU:H	1.82	0.45
1:k9:68:MET:HE3	1:ka:212:GLU:CB	2.47	0.45
1:kb:15:ILE:HD12	1:kb:16:SER:H	1.81	0.45
1:kf:9:GLN:HB3	1:kg:6:LEU:HD11	1.99	0.45
1:km:181:VAL:HG12	1:km:185:MET:HE3	1.98	0.45
1:l1:63:GLN:HB2	1:l2:169:TYR:HB3	1.98	0.45
1:l5:150:ILE:HA	1:l5:153:ILE:HD13	1.99	0.45
1:l8:200:THR:HG22	1:lh:201:ILE:HD11	1.99	0.45
1:lA:4:GLN:HA	1:lF:12:HIS:CE1	2.52	0.45
1:2O:104:ILE:HG21	1:2O:133:TRP:CZ2	2.51	0.45
1:35:84:HIS:HA	1:35:85:PRO:HD2	1.90	0.45
1:4a:17:PRO:HD3	1:4b:42:ALA:HB1	1.99	0.45
1:5J:117:TRP:HB3	1:5J:124:ILE:HB	1.99	0.45
1:7E:164:TYR:CE2	1:7E:190:LEU:HD12	2.52	0.45
1:8I:202:LEU:HA	1:8I:205:LEU:HD12	1.99	0.45
1:94:124:ILE:HG22	1:94:126:VAL:HG23	1.99	0.45
1:9L:120:HIS:CG	1:9L:121:ASN:N	2.85	0.45
1:10:33:SER:H	1:10:36:VAL:HG12	1.82	0.45
1:aB:13:GLN:OE1	1:aB:13:GLN:HA	2.17	0.45
1:bJ:231:LEU:HD23	1:bJ:231:LEU:HA	1.83	0.45
1:c1:40:PHE:CZ	1:c1:134:ILE:HG21	2.52	0.45
1:cq:40:PHE:CZ	1:cq:134:ILE:HG21	2.52	0.45
1:cu:110:THR:HG22	1:cu:113:GLU:HG3	1.99	0.45
1:cC:81:ASP:CG	1:cC:100:ARG:HH21	2.25	0.45
1:eB:76:GLU:HB3	1:eB:133:TRP:CD2	2.52	0.45
1:fd:65:ALA:HB1	1:fd:141:ILE:CD1	2.46	0.45
1:fF:120:HIS:CG	1:fF:121:ASN:H	2.35	0.45
1:O:223:GLY:HA2	1:O:224:PRO:C	2.42	0.45
1:S:120:HIS:CG	1:S:121:ASN:N	2.84	0.45
1:h9:125:PRO:HB2	1:h9:128:GLU:HB2	1.97	0.44
1:hg:80:TRP:CZ3	1:hg:84:HIS:HE1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hh:191:VAL:HG22	1:hh:202:LEU:HB3	1.98	0.44
1:hz:32:PHE:O	1:hz:142:VAL:HG12	2.17	0.44
1:hE:120:HIS:CG	1:hE:121:ASN:N	2.85	0.44
1:i3:150:ILE:HG21	1:i3:185:MET:HE2	1.98	0.44
1:ir:140:LYS:HE2	1:ir:144:MET:HE3	1.98	0.44
1:iy:162:ARG:HG3	1:iy:215:MET:HB3	1.98	0.44
1:iz:128:GLU:CD	1:iz:132:ARG:HH12	2.25	0.44
1:iF:184:TRP:CG	1:7:181:VAL:HG21	2.52	0.44
1:iR:117:TRP:CE3	1:iR:126:VAL:HG11	2.52	0.44
1:iS:2:ILE:HD13	1:iS:2:ILE:HA	1.83	0.44
1:j0:24:VAL:HG22	1:j0:59:VAL:HG22	1.99	0.44
1:1Y:87:HIS:CE1	1:1Y:97:ARG:HB2	2.52	0.44
1:jV:80:TRP:CE2	1:jV:84:HIS:CE1	3.05	0.44
1:jZ:219:GLN:HE22	1:jZ:226:HIS:CE1	2.35	0.44
1:lA:169:TYR:CZ	1:lA:186:THR:HG21	2.52	0.44
1:2m:161:PHE:CE1	1:2m:198:CYS:SG	3.10	0.44
1:2r:73:ILE:HD11	1:2r:134:ILE:HG12	1.99	0.44
1:2B:195:ASN:HB2	1:2B:196:PRO:HD2	1.99	0.44
1:2X:91:ILE:HD13	1:2X:91:ILE:N	2.32	0.44
1:5x:4:GLN:HG3	1:5y:6:LEU:HD21	1.99	0.44
1:63:62:HIS:CE1	1:63:145:TYR:CE1	3.05	0.44
1:6a:154:ARG:HA	1:6a:193:ASN:HB3	1.99	0.44
1:6v:181:VAL:CG1	1:6v:185:MET:HE3	2.47	0.44
1:6U:80:TRP:CH2	1:6U:84:HIS:NE2	2.85	0.44
1:7R:165:VAL:HG13	1:7R:190:LEU:HD11	1.98	0.44
1:8J:97:ARG:HH12	1:8J:103:ASP:CG	2.25	0.44
1:aO:57:ASN:HB3	1:aP:38:PRO:HG3	1.99	0.44
1:bC:91:ILE:HD12	1:bC:91:ILE:HA	1.91	0.44
1:cI:69:LEU:HD21	1:cI:134:ILE:HG23	1.99	0.44
1:dh:163:ASP:CG	1:dh:167:ARG:HH21	2.24	0.44
1:dj:202:LEU:HA	1:dj:205:LEU:HD12	1.98	0.44
1:dB:32:PHE:CZ	1:dB:62:HIS:CE1	3.05	0.44
1:el:95:GLN:HA	1:el:95:GLN:OE1	2.16	0.44
1:ey:150:ILE:HG13	1:ey:185:MET:HE3	1.97	0.44
1:eT:96:MET:CB	1:eT:120:HIS:CD2	3.00	0.44
1:1B:31:ALA:HA	1:1B:62:HIS:CE1	2.52	0.44
1:J:112:GLN:H	1:J:112:GLN:CD	2.25	0.44
1:gE:77:ALA:HB1	1:gE:101:GLY:HA3	1.99	0.44
1:gU:80:TRP:CE2	1:gU:84:HIS:CE1	3.04	0.44
1:hx:8:GLY:HA2	1:hx:10:MET:HE2	1.99	0.44
1:hG:73:ILE:HD11	1:hG:134:ILE:HG12	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ig:163:ASP:CG	1:ig:167:ARG:HH21	2.26	0.44
1:jo:169:TYR:CZ	1:jo:211:LEU:HD21	2.52	0.44
1:jv:75:GLU:O	1:jv:78:ALA:HB3	2.17	0.44
1:kA:163:ASP:CG	1:kA:167:ARG:HH21	2.26	0.44
1:lh:97:ARG:HH12	1:lh:103:ASP:CG	2.26	0.44
1:lt:79:GLU:HA	1:lt:82:ARG:HG2	2.00	0.44
1:3k:104:ILE:HG12	1:3k:126:VAL:HG12	1.99	0.44
1:3P:215:MET:HE2	1:3P:215:MET:HA	1.99	0.44
1:52:172:LEU:HD11	1:52:182:LYS:HG2	1.99	0.44
1:6b:68:MET:HE3	1:6b:140:LYS:HB3	1.99	0.44
1:6T:193:ASN:HD21	1:6T:231:LEU:HB2	1.82	0.44
1:7a:61:GLY:O	1:7a:62:HIS:HB2	2.17	0.44
1:7E:148:THR:HG21	1:7E:153:ILE:HD11	1.99	0.44
1:8w:145:TYR:OH	1:8x:215:MET:HE1	2.16	0.44
1:8J:91:ILE:HG22	1:8J:93:PRO:HD2	1.99	0.44
1:8Y:205:LEU:HD22	1:8Y:217:ALA:HB3	1.99	0.44
1:91:125:PRO:HG2	1:91:129:ILE:HD11	1.99	0.44
1:92:100:ARG:NE	1:92:103:ASP:OD2	2.48	0.44
1:a0:104:ILE:HG22	1:a0:133:TRP:CZ3	2.52	0.44
1:at:45:GLU:OE1	1:at:45:GLU:HA	2.17	0.44
1:bH:56:LEU:HD23	1:bH:56:LEU:HA	1.81	0.44
1:bK:145:TYR:HB3	1:bL:230:VAL:CG2	2.47	0.44
1:bQ:40:PHE:CZ	1:bQ:134:ILE:HG21	2.52	0.44
1:bX:168:PHE:CD2	1:bX:190:LEU:HD13	2.52	0.44
1:c2:1:PRO:H3	1:c2:51:ASP:CG	2.25	0.44
1:d5:3:VAL:HB	1:d5:11:VAL:HG13	1.99	0.44
1:f7:117:TRP:CE3	1:f7:126:VAL:HG21	2.52	0.44
1:fE:80:TRP:CE2	1:fE:84:HIS:CE1	3.05	0.44
1:fO:63:GLN:HB2	1:fP:166:ASP:OD1	2.17	0.44
1:g2:168:PHE:CE1	1:g2:190:LEU:HA	2.52	0.44
1:6:37:ILE:HD13	1:6:135:ILE:HG23	1.99	0.44
1:6:153:ILE:O	1:6:153:ILE:HG13	2.17	0.44
1:gn:150:ILE:HG21	1:gn:172:LEU:HD21	1.98	0.44
1:h1:231:LEU:HD12	1:h1:231:LEU:H	1.81	0.44
1:h5:97:ARG:HH12	1:h5:103:ASP:CG	2.25	0.44
1:hp:33:SER:HA	1:hp:34:PRO:HD3	1.81	0.44
1:hr:69:LEU:HD12	1:hr:137:GLY:HA3	1.99	0.44
1:ic:32:PHE:CD2	1:ic:141:ILE:HG21	2.53	0.44
1:jj:198:CYS:HA	1:jj:201:ILE:HD12	1.98	0.44
1:jp:92:GLU:HB2	1:jp:93:PRO:HD2	1.99	0.44
1:jQ:169:TYR:HB2	1:jV:63:GLN:HB3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:kj:8:GLY:HA2	1:kj:119:THR:HG22	1.99	0.44
1:2p:182:LYS:HD2	1:2p:182:LYS:C	2.43	0.44
1:2t:87:HIS:CD2	1:2t:91:ILE:HD13	2.51	0.44
1:32:37:ILE:H	1:32:37:ILE:HD12	1.82	0.44
1:3p:226:HIS:CE1	1:3p:227:LYS:HE2	2.52	0.44
1:3K:168:PHE:CG	1:3K:190:LEU:HD13	2.52	0.44
1:47:150:ILE:HG21	1:47:185:MET:HE1	2.00	0.44
1:4q:194:ALA:O	1:4q:199:LYS:HE3	2.18	0.44
1:4G:32:PHE:H	1:4H:228:ALA:CB	2.30	0.44
1:54:68:MET:HG3	1:54:144:MET:SD	2.57	0.44
1:5m:1:PRO:HA	1:5m:46:GLY:O	2.17	0.44
1:5V:162:ARG:HH12	1:5V:231:LEU:C	2.25	0.44
1:6L:91:ILE:HD13	1:6L:91:ILE:H	1.83	0.44
1:7e:24:VAL:HG22	1:7e:59:VAL:HG22	2.00	0.44
1:7T:40:PHE:CZ	1:7T:134:ILE:HG21	2.52	0.44
1:8a:21:ASN:HA	1:8a:24:VAL:HG22	1.99	0.44
1:8j:65:ALA:O	1:8j:141:ILE:HD11	2.17	0.44
1:8v:73:ILE:HD13	1:8v:130:TYR:CE1	2.53	0.44
1:8z:12:HIS:CD2	1:8z:115:ILE:HD11	2.52	0.44
1:9k:175:GLU:HG3	1:9k:177:ALA:H	1.83	0.44
1:9M:211:LEU:HD21	1:9R:67:GLN:HB3	2.00	0.44
1:aw:54:THR:HG23	1:ax:42:ALA:HA	2.00	0.44
1:bi:146:SER:HB2	1:bi:147:PRO:HD3	1.99	0.44
1:bm:120:HIS:CG	1:bm:121:ASN:H	2.35	0.44
1:bm:143:ARG:HH21	1:bm:175:GLU:CD	2.25	0.44
1:bz:96:MET:H	1:bz:120:HIS:CE1	2.35	0.44
1:cG:181:VAL:HG12	1:cG:185:MET:HE3	1.98	0.44
1:cT:35:GLU:OE2	1:cT:173:ARG:NH1	2.49	0.44
1:1h:120:HIS:CG	1:1h:121:ASN:H	2.35	0.44
1:dx:76:GLU:HB3	1:dx:133:TRP:CE2	2.52	0.44
1:ea:66:MET:HE2	1:ea:66:MET:HA	1.98	0.44
1:fu:80:TRP:CE2	1:fu:84:HIS:CE1	3.05	0.44
1:fA:2:ILE:HD11	1:fA:118:MET:HB3	1.99	0.44
1:fU:162:ARG:NE	1:fU:162:ARG:HA	2.32	0.44
1:g4:69:LEU:C	1:g4:69:LEU:HD13	2.42	0.44
1:c:1:PRO:H3	1:c:51:ASP:CG	2.26	0.44
1:h:3:VAL:HG21	1:h:13:GLN:HG3	1.99	0.44
1:x:40:PHE:CZ	1:x:134:ILE:HG21	2.51	0.44
1:J:104:ILE:HA	1:J:126:VAL:HG13	2.00	0.44
1:ga:172:LEU:HD11	1:ga:182:LYS:HG2	2.00	0.44
1:gJ:2:ILE:HA	1:gJ:12:HIS:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:h0:17:PRO:HG3	1:h1:43:LEU:HD21	1.98	0.44
1:hH:72:THR:HG21	1:hH:137:GLY:HA2	1.98	0.44
1:lz:69:LEU:HD11	1:lz:134:ILE:HG23	1.99	0.44
1:lM:110:THR:H	1:lM:113:GLU:HB2	1.82	0.44
1:lP:185:MET:SD	1:lP:189:LEU:HD22	2.57	0.44
1:2s:97:ARG:HH22	1:2s:103:ASP:CG	2.26	0.44
1:2A:65:ALA:HB2	1:2B:215:MET:HE1	1.99	0.44
1:44:37:ILE:HD11	1:44:138:LEU:HB3	1.99	0.44
1:4a:184:TRP:CZ2	1:fq:181:VAL:HG22	2.53	0.44
1:4J:5:ASN:HD22	1:4J:5:ASN:C	2.25	0.44
1:4R:96:MET:HE2	1:4R:120:HIS:CD2	2.53	0.44
1:5b:161:PHE:CZ	1:5b:202:LEU:HD21	2.52	0.44
1:5Y:80:TRP:CE2	1:5Y:84:HIS:HE1	2.36	0.44
1:8b:1:PRO:O	1:8b:12:HIS:CD2	2.70	0.44
1:8N:158:LYS:HA	1:8N:226:HIS:HA	2.00	0.44
1:8Q:52:LEU:HD13	1:8Q:134:ILE:HD12	2.00	0.44
1:8W:205:LEU:HD13	1:8W:214:MET:SD	2.57	0.44
1:9E:150:ILE:O	1:9E:153:ILE:HG22	2.17	0.44
1:a7:124:ILE:N	1:a7:124:ILE:HD12	2.33	0.44
1:a9:100:ARG:O	1:a9:103:ASP:HB2	2.18	0.44
1:an:144:MET:HE3	1:an:145:TYR:CE1	2.51	0.44
1:aO:161:PHE:O	1:aO:165:VAL:HG23	2.18	0.44
1:bw:160:PRO:HA	1:bw:226:HIS:CD2	2.53	0.44
1:19:159:GLU:HA	1:19:160:PRO:HD3	1.80	0.44
1:cI:188:THR:HG22	1:cI:188:THR:O	2.16	0.44
1:de:124:ILE:HA	1:de:125:PRO:HD3	1.87	0.44
1:dC:35:GLU:CD	1:dC:173:ARG:HH22	2.26	0.44
1:fx:65:ALA:HB1	1:fx:141:ILE:HG12	2.00	0.44
1:fI:77:ALA:HB2	1:fI:133:TRP:CZ3	2.52	0.44
1:F:153:ILE:HD13	1:F:171:THR:HG21	1.99	0.44
1:hG:80:TRP:CZ3	1:hG:84:HIS:HE1	2.35	0.44
1:hZ:134:ILE:HG22	1:hZ:138:LEU:HD12	1.99	0.44
1:jc:104:ILE:HG21	1:jc:133:TRP:CH2	2.53	0.44
1:jH:168:PHE:CD2	1:jH:190:LEU:HD13	2.52	0.44
1:2b:69:LEU:HD23	1:2b:69:LEU:C	2.43	0.44
1:2m:12:HIS:CG	1:2n:4:GLN:HG3	2.53	0.44
1:3N:7:GLN:N	1:3N:10:MET:HE2	2.33	0.44
1:4f:27:VAL:HG21	1:4f:59:VAL:HG11	2.00	0.44
1:4H:128:GLU:OE1	1:4H:131:LYS:NZ	2.51	0.44
1:55:117:TRP:CE3	1:55:126:VAL:HG21	2.53	0.44
1:5g:201:ILE:O	1:5g:204:ALA:HB3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5R:80:TRP:CE2	1:5R:84:HIS:CE1	3.05	0.44
1:5U:168:PHE:CD2	1:5U:190:LEU:HD13	2.51	0.44
1:75:104:ILE:HA	1:75:126:VAL:CG1	2.48	0.44
1:8u:80:TRP:CZ2	1:8u:84:HIS:CE1	3.06	0.44
1:8J:1:PRO:O	1:8J:12:HIS:CD2	2.70	0.44
1:8N:202:LEU:HD21	1:8N:218:CYS:SG	2.57	0.44
1:8Z:110:THR:CG2	1:8Z:113:GLU:HG3	2.48	0.44
1:a9:47:ALA:HB1	1:a9:51:ASP:HB2	2.00	0.44
1:af:81:ASP:CG	1:af:100:ARG:HH21	2.24	0.44
1:al:182:LYS:HD2	1:al:182:LYS:C	2.43	0.44
1:aQ:64:ALA:HB1	1:aR:215:MET:HE2	1.98	0.44
1:aY:19:THR:HG23	1:aY:43:LEU:HD22	1.98	0.44
1:bf:31:ALA:HA	1:bf:62:HIS:CE1	2.53	0.44
1:bB:120:HIS:CG	1:bB:121:ASN:H	2.35	0.44
1:bI:37:ILE:HG23	1:bI:135:ILE:HD12	2.00	0.44
1:bK:65:ALA:HB1	1:bK:141:ILE:HD12	2.00	0.44
1:c0:37:ILE:HG23	1:c0:135:ILE:HG23	1.99	0.44
1:cv:175:GLU:HG3	1:cv:177:ALA:HB3	1.98	0.44
1:1f:56:LEU:HD21	1:1f:134:ILE:CG2	2.48	0.44
1:1k:191:VAL:HG22	1:1k:202:LEU:HB3	1.98	0.44
1:do:211:LEU:HD13	1:do:211:LEU:C	2.42	0.44
1:dY:97:ARG:HH22	1:dY:103:ASP:CG	2.25	0.44
1:1s:80:TRP:CZ3	1:1s:84:HIS:CE1	3.05	0.44
1:eT:92:GLU:HA	1:eT:93:PRO:HD3	1.86	0.44
1:f6:40:PHE:CZ	1:f6:134:ILE:HG21	2.51	0.44
1:fq:209:ALA:HB1	1:fq:214:MET:HE2	2.00	0.44
1:fA:19:THR:HG22	1:fA:55:MET:HE1	2.00	0.44
1:1y:165:VAL:HG22	1:1y:190:LEU:HD11	1.99	0.44
1:3:80:TRP:HA	1:3:85:PRO:HD2	2.00	0.44
1:gd:87:HIS:HB2	1:gd:91:ILE:HD12	1.98	0.44
1:hs:70:LYS:HA	1:hs:73:ILE:HD12	2.00	0.44
1:ik:82:ARG:HD2	1:ik:82:ARG:C	2.41	0.44
1:iJ:162:ARG:HA	1:iJ:165:VAL:HG22	2.00	0.44
1:iV:202:LEU:HD22	1:iV:214:MET:SD	2.57	0.44
1:iW:181:VAL:HG22	1:l1:181:VAL:HA	2.00	0.44
1:kn:150:ILE:HG21	1:kn:185:MET:SD	2.58	0.44
1:2x:165:VAL:HG22	1:2x:190:LEU:HD11	2.00	0.44
1:2y:56:LEU:HD22	1:2y:66:MET:HE1	2.00	0.44
1:2G:77:ALA:HA	1:2G:133:TRP:CH2	2.52	0.44
1:2O:130:TYR:O	1:2O:133:TRP:HB2	2.17	0.44
1:36:229:ARG:HH12	1:3b:152:ASP:CG	2.26	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:41:226:HIS:CD2	1:41:227:LYS:HG3	2.53	0.44
1:4a:17:PRO:HA	1:4a:20:LEU:HB2	1.99	0.44
1:5N:69:LEU:HB2	1:5N:141:ILE:HD11	1.99	0.44
1:5W:138:LEU:O	1:5W:142:VAL:HG23	2.18	0.44
1:7k:104:ILE:HG22	1:7k:130:TYR:HB2	1.98	0.44
1:7B:97:ARG:HH21	1:7B:113:GLU:CD	2.24	0.44
1:8y:198:CYS:HB3	1:8y:214:MET:HE1	1.99	0.44
1:8K:9:GLN:HA	1:8K:119:THR:HG21	1.99	0.44
1:8L:18:ARG:HG2	1:8M:22:ALA:HB2	1.98	0.44
1:91:9:GLN:O	1:91:10:MET:HB2	2.17	0.44
1:a4:87:HIS:O	1:a4:87:HIS:CG	2.70	0.44
1:a5:185:MET:SD	1:a5:189:LEU:HD12	2.58	0.44
1:aw:181:VAL:O	1:aw:185:MET:HG3	2.17	0.44
1:14:83:LEU:HD23	1:14:84:HIS:CE1	2.53	0.44
1:c6:159:GLU:HA	1:c6:160:PRO:HD3	1.91	0.44
1:ce:124:ILE:HD12	1:ce:124:ILE:N	2.33	0.44
1:d4:26:VAL:CG1	1:d4:36:VAL:HG22	2.48	0.44
1:eV:120:HIS:CG	1:eV:121:ASN:N	2.86	0.44
1:fv:97:ARG:HH22	1:fv:103:ASP:CG	2.24	0.44
1:p:65:ALA:HB1	1:p:141:ILE:HG21	1.99	0.44
1:r:215:MET:HE2	1:s:145:TYR:CE1	2.53	0.44
1:y:226:HIS:CG	1:y:227:LYS:N	2.85	0.44
1:3:80:TRP:CD1	1:3:80:TRP:C	2.95	0.44
1:gC:80:TRP:CH2	1:gC:84:HIS:CE1	3.06	0.44
1:ht:19:THR:HG23	1:ht:43:LEU:HD23	1.99	0.44
1:is:131:LYS:HA	1:is:134:ILE:HD12	1.99	0.44
1:j6:31:ALA:O	1:j6:36:VAL:HG11	2.18	0.44
1:jh:97:ARG:HH12	1:jh:103:ASP:CG	2.25	0.44
1:js:229:ARG:HB3	1:jx:148:THR:HG22	2.00	0.44
1:jw:112:GLN:HA	1:jw:115:ILE:HD12	2.00	0.44
1:jK:112:GLN:HE22	1:jL:6:LEU:HD21	1.83	0.44
1:2z:128:GLU:HA	1:2z:131:LYS:HE2	2.00	0.44
1:2O:105:ALA:HA	1:2O:130:TYR:CE1	2.52	0.44
1:30:153:ILE:HG21	1:30:168:PHE:HA	1.99	0.44
1:5k:84:HIS:HE1	1:5k:98:GLU:CD	2.26	0.44
1:5Z:161:PHE:CZ	1:5Z:202:LEU:HD21	2.53	0.44
1:6y:114:GLN:HA	1:6y:117:TRP:CE3	2.53	0.44
1:6X:2:ILE:C	1:6X:2:ILE:HD12	2.43	0.44
1:7p:96:MET:HE3	1:7p:116:GLY:HA3	1.99	0.44
1:85:165:VAL:HG22	1:85:190:LEU:HD11	1.99	0.44
1:8U:2:ILE:HD13	1:8U:2:ILE:HA	1.72	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ag:60:GLY:HA3	1:ah:35:GLU:HG2	2.00	0.44
1:12:130:TYR:HA	1:12:133:TRP:CE3	2.53	0.44
1:b0:205:LEU:HB3	1:b0:209:ALA:HB2	2.00	0.44
1:ba:150:ILE:HD11	1:ba:168:PHE:CE2	2.53	0.44
1:bm:124:ILE:N	1:bm:124:ILE:HD12	2.33	0.44
1:bB:168:PHE:CD1	1:bB:190:LEU:HD13	2.52	0.44
1:bM:80:TRP:CE2	1:bM:84:HIS:CE1	3.06	0.44
1:cr:122:PRO:HA	1:cr:123:PRO:HD3	1.91	0.44
1:cJ:54:THR:HG23	1:cK:38:PRO:HB3	1.98	0.44
1:cO:180:GLU:H	1:cO:180:GLU:CD	2.26	0.44
1:1l:44:SER:HA	1:1l:55:MET:HE1	1.99	0.44
1:dF:83:LEU:HD23	1:dF:84:HIS:CD2	2.53	0.44
1:eu:110:THR:HG23	1:eu:113:GLU:H	1.83	0.44
1:eN:39:MET:HE3	1:eN:39:MET:HB3	1.83	0.44
1:g3:124:ILE:HA	1:g3:125:PRO:HD3	1.80	0.44
1:a:72:THR:HG21	1:a:137:GLY:CA	2.47	0.44
1:gh:201:ILE:HD11	1:et:203:LYS:HG2	1.99	0.44
1:gD:199:LYS:HA	1:gD:202:LEU:HD12	2.00	0.44
1:gQ:73:ILE:C	1:gQ:73:ILE:HD12	2.43	0.44
1:gU:104:ILE:HG22	1:gU:130:TYR:HB2	2.00	0.44
1:hp:181:VAL:CG1	1:hp:185:MET:HE3	2.48	0.44
1:hx:69:LEU:HD23	1:hx:70:LYS:N	2.33	0.44
1:hL:211:LEU:HD11	1:hL:215:MET:HE3	1.99	0.44
1:hX:2:ILE:HD12	1:hX:115:ILE:HG23	1.98	0.44
1:iq:135:ILE:HA	1:iq:138:LEU:HB2	1.99	0.44
1:iC:87:HIS:CE1	1:iC:91:ILE:HD13	2.52	0.44
1:iJ:161:PHE:CE1	1:iJ:202:LEU:HD11	2.53	0.44
1:1W:179:GLN:OE1	1:1W:179:GLN:HA	2.17	0.44
1:jw:4:GLN:CD	1:jw:4:GLN:H	2.26	0.44
1:jM:215:MET:HE2	1:jM:215:MET:HA	1.99	0.44
1:kz:87:HIS:CG	1:kz:88:ALA:N	2.86	0.44
1:kX:195:ASN:HB2	1:kX:196:PRO:HD2	2.00	0.44
1:lw:116:GLY:O	1:lw:120:HIS:CD2	2.71	0.44
1:lF:15:ILE:HG23	1:lF:20:LEU:HD21	1.99	0.44
1:2T:15:ILE:HG21	1:2T:54:THR:HG21	2.00	0.44
1:34:161:PHE:O	1:34:165:VAL:HG23	2.18	0.44
1:3C:5:ASN:ND2	1:3C:7:GLN:HB2	2.32	0.44
1:4Z:151:LEU:HD13	1:7a:189:LEU:HD12	2.00	0.44
1:5B:150:ILE:H	1:5B:150:ILE:HD12	1.83	0.44
1:5M:163:ASP:CG	1:5M:167:ARG:HE	2.25	0.44
1:69:80:TRP:CH2	1:69:129:ILE:HD13	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6i:163:ASP:CG	1:6i:229:ARG:HH22	2.26	0.44
1:7U:61:GLY:HA3	1:7U:62:HIS:CD2	2.53	0.44
1:85:138:LEU:HA	1:85:141:ILE:HD12	1.99	0.44
1:8q:150:ILE:O	1:8q:153:ILE:HG22	2.18	0.44
1:8v:80:TRP:CZ2	1:8v:84:HIS:CE1	3.06	0.44
1:8y:230:VAL:O	1:8y:230:VAL:HG22	2.18	0.44
1:8H:37:ILE:HG23	1:8H:135:ILE:HG12	1.98	0.44
1:9U:144:MET:HB3	1:9V:215:MET:HE3	2.00	0.44
1:aU:69:LEU:HD13	1:aU:134:ILE:HG23	2.00	0.44
1:bj:96:MET:HE2	1:bj:120:HIS:CD2	2.52	0.44
1:bN:139:ASN:HA	1:bN:142:VAL:HG22	2.00	0.44
1:c7:103:ASP:HB3	1:c7:117:TRP:CH2	2.52	0.44
1:eK:91:ILE:HD13	1:eK:96:MET:O	2.17	0.44
1:eV:37:ILE:HD12	1:eV:135:ILE:HG12	2.00	0.44
1:eZ:52:LEU:HD23	1:eZ:52:LEU:HA	1.81	0.44
1:fk:191:VAL:HG12	1:fk:202:LEU:HD13	1.98	0.44
1:e:117:TRP:CE3	1:e:126:VAL:HG11	2.53	0.44
1:p:150:ILE:HD12	1:p:150:ILE:HA	1.76	0.44
1:4:211:LEU:HD23	1:4:211:LEU:C	2.43	0.44
1:O:2:ILE:HD11	1:O:10:MET:HB3	1.99	0.44
1:gk:154:ARG:HA	1:gk:193:ASN:HB3	1.99	0.44
1:gm:97:ARG:HH22	1:gm:103:ASP:CG	2.26	0.44
1:hA:97:ARG:HH22	1:hA:103:ASP:CG	2.26	0.44
1:hC:68:MET:HE1	1:hC:144:MET:SD	2.58	0.44
1:hE:220:GLY:CA	1:fQ:192:GLN:HE22	2.31	0.44
1:hY:12:HIS:HB3	1:hZ:5:ASN:HB2	1.99	0.44
1:iD:69:LEU:HB2	1:iD:141:ILE:HD11	1.98	0.44
1:iG:4:GLN:OE1	1:iG:4:GLN:HA	2.17	0.44
1:iP:68:MET:HE1	1:iQ:212:GLU:HG3	2.00	0.44
1:ja:141:ILE:HG21	1:ja:141:ILE:HD13	1.81	0.44
1:1U:154:ARG:O	1:1U:167:ARG:NH2	2.51	0.44
1:1V:87:HIS:CE1	1:1V:91:ILE:HD11	2.53	0.44
1:22:181:VAL:HG22	1:dy:181:VAL:HA	1.99	0.44
1:kA:32:PHE:CE2	1:kA:141:ILE:HD12	2.53	0.44
1:25:80:TRP:CZ3	1:25:84:HIS:HE1	2.36	0.44
1:2o:181:VAL:HG12	1:2o:185:MET:HE2	2.00	0.44
1:3a:104:ILE:HG12	1:3a:126:VAL:HG12	2.00	0.44
1:3g:161:PHE:O	1:3g:165:VAL:HG23	2.17	0.44
1:3M:139:ASN:HD21	1:3M:176:GLN:CD	2.26	0.44
1:4c:142:VAL:HG11	1:4c:174:ALA:HA	1.99	0.44
1:4q:120:HIS:CG	1:4q:121:ASN:H	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4A:153:ILE:HG22	1:4A:164:TYR:CE1	2.53	0.44
1:58:117:TRP:CE3	1:58:126:VAL:HG11	2.53	0.44
1:5i:1:PRO:O	1:5i:12:HIS:CD2	2.71	0.44
1:6O:151:LEU:HD21	1:6X:189:LEU:HD11	1.98	0.44
1:6T:64:ALA:HB2	1:6U:165:VAL:HG12	2.00	0.44
1:94:138:LEU:O	1:94:142:VAL:HG23	2.18	0.44
1:99:191:VAL:HG13	1:99:202:LEU:HB2	1.98	0.44
1:9o:42:ALA:CB	1:9t:58:THR:HG23	2.48	0.44
1:9x:138:LEU:HA	1:9x:141:ILE:HD12	2.00	0.44
1:as:159:GLU:CD	1:as:167:ARG:HH21	2.26	0.44
1:aY:143:ARG:HH12	1:aY:175:GLU:CD	2.26	0.44
1:aY:164:TYR:CE2	1:aY:190:LEU:HD12	2.53	0.44
1:bJ:191:VAL:HG22	1:bJ:202:LEU:HB3	2.00	0.44
1:cf:184:TRP:CZ2	1:df:185:MET:HE2	2.53	0.44
1:cq:44:SER:CB	1:cq:131:LYS:HD3	2.47	0.44
1:cJ:204:ALA:HB2	1:V:201:ILE:HD11	2.00	0.44
1:d1:185:MET:HA	1:d1:189:LEU:HB3	1.99	0.44
1:dO:117:TRP:HB3	1:dO:124:ILE:HB	2.00	0.44
1:e0:10:MET:O	1:e1:6:LEU:HD13	2.18	0.44
1:1q:67:GLN:HB2	1:1r:211:LEU:HD12	2.00	0.44
1:er:150:ILE:HG22	1:er:151:LEU:HD23	1.99	0.44
1:eK:40:PHE:CE2	1:eK:134:ILE:HG21	2.53	0.44
1:eM:6:LEU:HD12	1:eM:6:LEU:HA	1.89	0.44
1:eR:164:TYR:CZ	1:eR:190:LEU:HD12	2.52	0.44
1:fS:120:HIS:CG	1:fS:121:ASN:H	2.35	0.44
1:W:58:THR:HG22	1:W:58:THR:O	2.17	0.44
1:h0:160:PRO:HA	1:h0:221:VAL:HG11	2.00	0.43
1:h5:33:SER:HB2	1:h5:34:PRO:HD2	2.00	0.43
1:hc:151:LEU:HD13	1:jb:189:LEU:HD13	2.01	0.43
1:hU:200:THR:HG21	1:fV:205:LEU:HD21	1.99	0.43
1:iR:56:LEU:HD11	1:iR:134:ILE:CD1	2.48	0.43
1:iV:157:PRO:CB	1:l7:230:VAL:HG21	2.48	0.43
1:iY:120:HIS:CG	1:iY:121:ASN:N	2.86	0.43
1:j2:30:LYS:HA	1:j2:30:LYS:HD3	1.89	0.43
1:kp:202:LEU:HD13	1:kp:214:MET:SD	2.58	0.43
1:kq:17:PRO:HB3	1:kr:39:MET:SD	2.58	0.43
1:kA:164:TYR:HA	1:kA:167:ARG:HG2	1.99	0.43
1:kV:84:HIS:CG	1:kV:87:HIS:HE1	2.33	0.43
1:3e:144:MET:SD	1:3f:215:MET:HG3	2.58	0.43
1:3D:48:THR:HG22	1:3D:118:MET:SD	2.58	0.43
1:4q:201:ILE:HA	1:4q:204:ALA:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:51:12:HIS:CG	1:51:115:ILE:HD11	2.53	0.43
1:5s:201:ILE:HD13	1:5s:201:ILE:HA	1.85	0.43
1:5t:64:ALA:HB1	1:5t:144:MET:HE1	2.00	0.43
1:5P:6:LEU:HD23	1:5P:123:PRO:HG2	2.00	0.43
1:6N:139:ASN:HA	1:6N:142:VAL:HG22	1.99	0.43
1:7E:120:HIS:CG	1:7E:121:ASN:H	2.36	0.43
1:7T:40:PHE:CE2	1:7T:134:ILE:CG2	3.00	0.43
1:8m:64:ALA:HB2	1:8n:165:VAL:HG12	2.00	0.43
1:8E:181:VAL:HA	1:8N:181:VAL:HG22	1.99	0.43
1:90:36:VAL:HG13	1:90:37:ILE:HD12	1.99	0.43
1:9p:9:GLN:HE21	1:9p:9:GLN:HA	1.83	0.43
1:bc:87:HIS:CE1	1:bc:91:ILE:HA	2.53	0.43
1:bc:130:TYR:CE2	1:bc:134:ILE:HD11	2.53	0.43
1:c7:67:GLN:HA	1:c7:70:LYS:HD3	2.01	0.43
1:cc:56:LEU:HB3	1:cc:66:MET:HE1	2.00	0.43
1:cF:151:LEU:H	1:cF:151:LEU:HD12	1.83	0.43
1:cT:26:VAL:O	1:cT:30:LYS:HB2	2.17	0.43
1:1h:77:ALA:HA	1:1h:133:TRP:CH2	2.53	0.43
1:e6:120:HIS:CG	1:e6:121:ASN:N	2.86	0.43
1:eb:144:MET:HE3	1:ec:215:MET:HE1	2.00	0.43
1:eE:25:LYS:HA	1:eE:28:GLU:HB3	2.00	0.43
1:1E:169:TYR:HB2	1:1J:63:GLN:HB3	2.00	0.43
1:hj:150:ILE:HG22	1:hj:171:THR:HG22	2.00	0.43
1:hq:199:LYS:HA	1:hq:202:LEU:HD12	2.00	0.43
1:hK:81:ASP:CG	1:hK:100:ARG:HH21	2.25	0.43
1:hN:80:TRP:CE2	1:hN:84:HIS:CE1	3.06	0.43
1:hT:165:VAL:HG11	1:hT:215:MET:HE1	2.00	0.43
1:ir:37:ILE:HB	1:ir:38:PRO:HD3	2.00	0.43
1:iy:97:ARG:HH22	1:iy:103:ASP:CG	2.26	0.43
1:1R:220:GLY:HA3	1:1R:227:LYS:HG3	1.99	0.43
1:jE:97:ARG:HH21	1:jE:113:GLU:CD	2.25	0.43
1:lb:69:LEU:HD23	1:lb:73:ILE:HD12	2.00	0.43
1:2g:12:HIS:HB3	1:2g:115:ILE:HD11	2.00	0.43
1:2p:52:LEU:HD22	1:2p:134:ILE:HD13	1.99	0.43
1:30:34:PRO:HG3	1:30:174:ALA:HB2	2.00	0.43
1:4F:209:ALA:HB3	1:4F:214:MET:HE3	2.00	0.43
1:5m:20:LEU:HD21	1:5m:54:THR:HG22	2.00	0.43
1:6p:168:PHE:CE1	1:6p:172:LEU:HD11	2.54	0.43
1:6Y:165:VAL:HG22	1:6Y:190:LEU:HD11	1.99	0.43
1:81:110:THR:HG22	1:81:112:GLN:H	1.82	0.43
1:89:126:VAL:HA	1:89:129:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8x:37:ILE:H	1:8x:37:ILE:HD12	1.83	0.43
1:8E:3:VAL:HG21	1:8E:13:GLN:CD	2.42	0.43
1:8G:37:ILE:HD12	1:8G:135:ILE:HG23	1.99	0.43
1:8J:211:LEU:HD13	1:8J:211:LEU:HA	1.94	0.43
1:8R:143:ARG:HA	1:8R:175:GLU:HA	2.00	0.43
1:97:161:PHE:HA	1:97:164:TYR:CD2	2.53	0.43
1:9H:15:ILE:HG23	1:9H:15:ILE:O	2.18	0.43
1:a9:1:PRO:H3	1:a9:51:ASP:CG	2.26	0.43
1:aa:79:GLU:O	1:aa:83:LEU:HB2	2.17	0.43
1:13:104:ILE:HD13	1:13:126:VAL:HG23	2.01	0.43
1:bk:80:TRP:CH2	1:bk:129:ILE:HD13	2.53	0.43
1:bw:105:ALA:HA	1:bw:130:TYR:CD2	2.54	0.43
1:bC:191:VAL:HG13	1:bC:202:LEU:HD13	2.01	0.43
1:bT:80:TRP:CE2	1:bT:84:HIS:HE1	2.36	0.43
1:ca:48:THR:HG21	1:ca:111:LEU:HD11	2.00	0.43
1:1f:47:ALA:HB2	1:1f:55:MET:HE1	1.98	0.43
1:cH:50:GLN:NE2	1:cH:114:GLN:HE22	2.16	0.43
1:d9:185:MET:HE3	1:d9:190:LEU:HD21	1.99	0.43
1:e2:150:ILE:O	1:e2:153:ILE:HG22	2.18	0.43
1:ev:143:ARG:HH21	1:ev:175:GLU:CD	2.27	0.43
1:eA:64:ALA:HB3	1:eB:166:ASP:OD1	2.18	0.43
1:fl:215:MET:HE2	1:fl:215:MET:HA	1.99	0.43
1:P:3:VAL:HG22	1:P:4:GLN:N	2.32	0.43
1:gS:33:SER:O	1:gS:36:VAL:HG22	2.18	0.43
1:hy:226:HIS:CE1	1:hy:228:ALA:HB3	2.53	0.43
1:i1:144:MET:HE1	1:i2:216:THR:CG2	2.48	0.43
1:ij:97:ARG:HH12	1:ij:103:ASP:CG	2.25	0.43
1:iv:12:HIS:CE1	1:iv:14:ALA:HA	2.53	0.43
1:kb:155:GLN:HB2	1:kb:164:TYR:CD2	2.53	0.43
1:kS:181:VAL:CG1	1:kS:185:MET:HE3	2.48	0.43
1:l5:211:LEU:HD12	1:l5:214:MET:HB2	1.99	0.43
1:2p:77:ALA:HA	1:2p:133:TRP:CH2	2.53	0.43
1:2L:103:ASP:HB3	1:2L:117:TRP:CH2	2.53	0.43
1:3M:181:VAL:HG22	1:1v:181:VAL:HA	2.00	0.43
1:3P:104:ILE:HD13	1:3P:126:VAL:HG12	2.00	0.43
1:4g:144:MET:HE2	1:4g:145:TYR:CZ	2.53	0.43
1:4L:11:VAL:HG11	1:4M:6:LEU:HA	2.00	0.43
1:5w:191:VAL:HG11	1:5w:214:MET:HE1	1.99	0.43
1:5N:76:GLU:HB3	1:5N:133:TRP:CE2	2.53	0.43
1:6i:47:ALA:HB1	1:6i:52:LEU:HG	2.00	0.43
1:6x:165:VAL:HG22	1:6x:190:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:83:104:ILE:HG21	1:83:133:TRP:CH2	2.53	0.43
1:9d:154:ARG:HD2	1:9d:189:LEU:HD22	1.99	0.43
1:9L:32:PHE:CE2	1:9L:62:HIS:HE1	2.37	0.43
1:at:85:PRO:HB2	1:at:87:HIS:CE1	2.53	0.43
1:bT:226:HIS:CD2	1:bT:227:LYS:HG3	2.53	0.43
1:bU:98:GLU:HA	1:bU:99:PRO:HD3	1.89	0.43
1:cN:128:GLU:HA	1:cN:131:LYS:HE2	1.99	0.43
1:d1:37:ILE:HD12	1:d1:37:ILE:N	2.33	0.43
1:1m:81:ASP:CG	1:1m:101:GLY:H	2.27	0.43
1:1o:97:ARG:HH22	1:1o:103:ASP:CG	2.25	0.43
1:er:138:LEU:HA	1:er:141:ILE:HD12	2.00	0.43
1:ew:128:GLU:OE1	1:ew:132:ARG:NH2	2.51	0.43
1:eA:76:GLU:HB3	1:eA:133:TRP:CE2	2.53	0.43
1:eC:155:GLN:HB2	1:eC:164:TYR:CD1	2.53	0.43
1:eL:191:VAL:H	1:eL:191:VAL:HG23	1.55	0.43
1:eP:91:ILE:HD12	1:eP:93:PRO:HD2	2.00	0.43
1:eU:43:LEU:HD23	1:eZ:17:PRO:HB3	2.00	0.43
1:eW:17:PRO:HG2	1:eX:43:LEU:HD23	2.00	0.43
1:1u:70:LYS:HA	1:1u:73:ILE:HD12	2.00	0.43
1:fd:220:GLY:HA2	1:fd:227:LYS:HB3	2.01	0.43
1:fp:37:ILE:HB	1:fp:38:PRO:HD3	2.01	0.43
1:0:132:ARG:NE	1:0:132:ARG:HA	2.32	0.43
1:s:5:ASN:HD21	1:s:11:VAL:CG2	2.31	0.43
1:gd:191:VAL:HG22	1:gd:202:LEU:HD13	1.99	0.43
1:gg:2:ILE:HD12	1:gg:118:MET:HE2	2.00	0.43
1:gp:69:LEU:HD11	1:gp:134:ILE:HA	1.99	0.43
1:gE:69:LEU:C	1:gE:69:LEU:HD23	2.43	0.43
1:gP:161:PHE:CE2	1:gP:214:MET:HB3	2.53	0.43
1:hg:117:TRP:HD1	1:hg:124:ILE:HD12	1.83	0.43
1:i4:41:SER:O	1:i4:45:GLU:HG2	2.18	0.43
1:i7:32:PHE:O	1:i8:226:HIS:CD2	2.72	0.43
1:ii:151:LEU:HA	1:ii:189:LEU:HD21	2.00	0.43
1:iO:117:TRP:CD1	1:iO:124:ILE:HD12	2.54	0.43
1:jb:44:SER:OG	1:jb:55:MET:HE1	2.18	0.43
1:kq:30:LYS:HZ1	1:kv:28:GLU:CD	2.26	0.43
1:kF:122:PRO:HA	1:kF:123:PRO:HD3	1.94	0.43
1:l9:49:PRO:HA	1:l9:52:LEU:HB2	1.99	0.43
1:lf:181:VAL:HG12	1:lf:185:MET:HE3	2.00	0.43
1:lP:15:ILE:HG23	1:lP:15:ILE:O	2.19	0.43
1:2R:90:PRO:HA	1:2R:96:MET:O	2.18	0.43
1:41:33:SER:O	1:41:36:VAL:HG22	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4p:181:VAL:HG12	1:4p:185:MET:HE3	2.01	0.43
1:4F:68:MET:HE3	1:4G:212:GLU:HA	2.01	0.43
1:4H:120:HIS:CG	1:4H:121:ASN:N	2.87	0.43
1:4L:51:ASP:HB3	1:4L:55:MET:HE3	2.00	0.43
1:4P:20:LEU:O	1:4P:24:VAL:HG23	2.17	0.43
1:4Z:151:LEU:CD1	1:7a:189:LEU:HD12	2.48	0.43
1:50:80:TRP:CE2	1:50:84:HIS:CE1	3.06	0.43
1:5h:200:THR:HG23	1:dX:218:CYS:H	1.84	0.43
1:5C:205:LEU:HD23	1:5C:205:LEU:HA	1.80	0.43
1:6p:73:ILE:HD11	1:6p:134:ILE:CG1	2.48	0.43
1:6B:131:LYS:HB3	1:6B:131:LYS:HE2	1.84	0.43
1:6H:162:ARG:HG2	1:6H:215:MET:SD	2.59	0.43
1:7a:157:PRO:HB2	1:7a:230:VAL:HG11	2.01	0.43
1:7h:48:THR:O	1:7h:51:ASP:HB2	2.18	0.43
1:7Q:73:ILE:C	1:7Q:73:ILE:HD12	2.43	0.43
1:8p:197:ASP:HA	1:8p:200:THR:HG22	2.00	0.43
1:8C:181:VAL:HG12	1:8C:185:MET:HE3	1.99	0.43
1:8R:80:TRP:CH2	1:8R:84:HIS:CE1	3.07	0.43
1:9U:200:THR:HA	1:9Y:230:VAL:HG21	2.00	0.43
1:9W:33:SER:O	1:9W:36:VAL:HG12	2.19	0.43
1:a9:85:PRO:HB2	1:a9:88:ALA:HB2	2.00	0.43
1:aO:199:LYS:NZ	1:c8:231:LEU:O	2.51	0.43
1:bi:181:VAL:HG12	1:bi:185:MET:HE2	2.00	0.43
1:18:210:THR:HG22	1:18:213:GLU:H	1.84	0.43
1:bs:73:ILE:HD11	1:bs:134:ILE:HA	2.00	0.43
1:bW:120:HIS:CD2	1:bW:124:ILE:HD11	2.53	0.43
1:cC:2:ILE:HD12	1:cC:10:MET:SD	2.59	0.43
1:d4:43:LEU:HD23	1:d9:17:PRO:HG3	2.00	0.43
1:dj:1:PRO:HD3	1:dj:15:ILE:HD12	2.00	0.43
1:dR:1:PRO:H3	1:dR:51:ASP:CG	2.25	0.43
1:ea:27:VAL:HG21	1:ea:59:VAL:HG11	1.99	0.43
1:eC:120:HIS:CG	1:eC:121:ASN:H	2.37	0.43
1:fx:124:ILE:HG22	1:fx:126:VAL:HG23	2.00	0.43
1:h:177:ALA:HB3	1:h:182:LYS:HG3	1.99	0.43
1:gW:32:PHE:CZ	1:gW:66:MET:HE3	2.53	0.43
1:h1:165:VAL:HG22	1:h1:169:TYR:CE2	2.53	0.43
1:1K:207:PRO:HG2	1:ki:216:THR:HG22	1.99	0.43
1:j5:26:VAL:HG22	1:j5:36:VAL:HG23	2.01	0.43
1:j6:184:TRP:CG	1:jf:181:VAL:HG11	2.53	0.43
1:j7:72:THR:HG21	1:j7:137:GLY:CA	2.48	0.43
1:jR:87:HIS:HE1	1:jR:96:MET:HB2	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:k0:96:MET:HE3	1:k0:117:TRP:CD1	2.53	0.43
1:ke:76:GLU:HB3	1:ke:133:TRP:CD1	2.54	0.43
1:2c:29:GLU:CD	1:2d:229:ARG:HH21	2.27	0.43
1:3U:26:VAL:HG11	1:3U:36:VAL:HA	2.01	0.43
1:4p:65:ALA:HB1	1:4p:141:ILE:HG12	2.01	0.43
1:4z:214:MET:O	1:4z:217:ALA:HB3	2.18	0.43
1:54:97:ARG:HH22	1:54:103:ASP:CG	2.27	0.43
1:5b:204:ALA:HB1	1:5p:204:ALA:HB1	2.00	0.43
1:5C:35:GLU:CD	1:5C:173:ARG:HH22	2.26	0.43
1:6c:97:ARG:HH12	1:6c:103:ASP:CG	2.26	0.43
1:6K:16:SER:HA	1:6K:17:PRO:HD3	1.93	0.43
1:7f:195:ASN:HA	1:7f:196:PRO:HD3	1.89	0.43
1:7j:209:ALA:HB3	1:7j:214:MET:HE2	2.00	0.43
1:7E:2:ILE:HD12	1:7E:5:ASN:O	2.19	0.43
1:7N:190:LEU:HD23	1:7N:214:MET:HE1	2.00	0.43
1:99:150:ILE:HG21	1:99:185:MET:CE	2.48	0.43
1:9p:130:TYR:CE2	1:9p:134:ILE:HD11	2.53	0.43
1:15:133:TRP:HA	1:15:136:LEU:HD12	2.01	0.43
1:bg:161:PHE:CE1	1:bg:202:LEU:HD11	2.54	0.43
1:1i:104:ILE:HG21	1:1i:133:TRP:CZ3	2.53	0.43
1:dp:69:LEU:HD11	1:dp:134:ILE:HG23	2.00	0.43
1:dP:33:SER:O	1:dP:36:VAL:HG12	2.18	0.43
1:eY:40:PHE:C	1:eY:40:PHE:CD2	2.96	0.43
1:f3:143:ARG:HE	1:f3:175:GLU:CD	2.25	0.43
1:fm:79:GLU:CD	1:fm:82:ARG:HE	2.25	0.43
1:fR:161:PHE:CE2	1:fR:165:VAL:HG21	2.53	0.43
1:h:1:PRO:H3	1:h:51:ASP:CG	2.27	0.43
1:2:155:GLN:HB3	1:2:195:ASN:H	1.83	0.43
1:z:156:GLY:H	1:z:159:GLU:CD	2.27	0.43
1:gT:65:ALA:HA	1:gT:144:MET:HE1	2.01	0.43
1:hx:12:HIS:CE1	1:hx:111:LEU:HD21	2.54	0.43
1:hF:119:THR:HG22	1:hF:119:THR:O	2.17	0.43
1:hO:212:GLU:HG3	1:hT:144:MET:HE1	2.01	0.43
1:hP:140:LYS:HZ3	1:hQ:212:GLU:CD	2.27	0.43
1:in:47:ALA:O	1:in:118:MET:HE1	2.18	0.43
1:iB:19:THR:HG23	1:iB:43:LEU:HD22	2.01	0.43
1:iH:153:ILE:HG22	1:iH:153:ILE:O	2.17	0.43
1:iS:104:ILE:CD1	1:iS:126:VAL:HG12	2.49	0.43
1:jT:3:VAL:HG21	1:jT:13:GLN:HG3	2.00	0.43
1:22:25:LYS:HD3	1:22:28:GLU:OE2	2.19	0.43
1:kJ:150:ILE:CG2	1:eo:184:TRP:HE1	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:25:80:TRP:CE3	1:25:84:HIS:HE1	2.37	0.43
1:l4:181:VAL:CG1	1:l4:185:MET:HE3	2.49	0.43
1:2o:37:ILE:HB	1:2o:38:PRO:HD3	2.01	0.43
1:2E:218:CYS:CB	1:2E:221:VAL:HG11	2.49	0.43
1:2V:120:HIS:CG	1:2V:121:ASN:N	2.87	0.43
1:30:168:PHE:CD2	1:30:190:LEU:HD12	2.53	0.43
1:42:163:ASP:CG	1:42:229:ARG:HH22	2.27	0.43
1:4w:71:GLU:HG3	1:4x:211:LEU:HD22	2.01	0.43
1:4J:80:TRP:CE2	1:4J:84:HIS:CE1	3.07	0.43
1:5s:104:ILE:HG12	1:5s:126:VAL:HG13	2.01	0.43
1:5W:80:TRP:CZ2	1:5W:84:HIS:CE1	3.06	0.43
1:5Y:40:PHE:CZ	1:5Y:134:ILE:HG21	2.54	0.43
1:7g:211:LEU:HB3	1:7l:68:MET:HG2	2.00	0.43
1:7r:120:HIS:CG	1:7r:121:ASN:N	2.86	0.43
1:7V:125:PRO:HB2	1:7V:128:GLU:HB3	2.00	0.43
1:8g:30:LYS:HD2	1:8g:35:GLU:CB	2.49	0.43
1:8A:150:ILE:HD12	1:8A:150:ILE:HA	1.90	0.43
1:8X:195:ASN:HA	1:8X:196:PRO:HD3	1.88	0.43
1:a0:7:GLN:CD	1:a0:7:GLN:H	2.26	0.43
1:ag:67:GLN:HA	1:ag:70:LYS:HE3	2.01	0.43
1:aG:203:LYS:HE3	1:aG:203:LYS:HA	2.01	0.43
1:bn:37:ILE:H	1:bn:37:ILE:HD12	1.84	0.43
1:bY:58:THR:O	1:bY:58:THR:HG22	2.18	0.43
1:cr:162:ARG:O	1:cr:226:HIS:CE1	2.72	0.43
1:cD:87:HIS:CE1	1:cD:97:ARG:CB	3.02	0.43
1:cF:97:ARG:HH12	1:cF:103:ASP:CG	2.26	0.43
1:cM:15:ILE:HD13	1:cM:20:LEU:HD21	2.01	0.43
1:d3:56:LEU:HD23	1:d3:56:LEU:HA	1.91	0.43
1:dw:86:VAL:HG13	1:dw:87:HIS:CE1	2.53	0.43
1:dx:31:ALA:HB1	1:dx:62:HIS:CE1	2.54	0.43
1:dz:168:PHE:CE2	1:dz:172:LEU:HD11	2.54	0.43
1:dG:68:MET:HA	1:dH:211:LEU:HD23	2.00	0.43
1:1m:12:HIS:CG	1:1m:111:LEU:HD21	2.54	0.43
1:1z:184:TRP:CH2	1:1z:188:THR:HG21	2.53	0.43
1:F:39:MET:CE	1:G:24:VAL:HG11	2.49	0.43
1:M:38:PRO:HB3	1:N:57:ASN:HB3	2.00	0.43
1:W:32:PHE:CE1	1:W:62:HIS:CE1	3.07	0.43
1:ge:14:ALA:HB2	1:gf:45:GLU:HB2	2.01	0.43
1:gR:40:PHE:CZ	1:gR:134:ILE:HG21	2.54	0.43
1:ha:194:ALA:HB3	1:ha:199:LYS:HG2	2.01	0.43
1:hr:155:GLN:H	1:hr:155:GLN:CD	2.25	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hU:37:ILE:HD12	1:hU:37:ILE:H	1.84	0.43
1:hY:154:ARG:HD3	1:hY:189:LEU:HD11	2.00	0.43
1:i2:177:ALA:H	1:i2:182:LYS:HE3	1.83	0.43
1:ir:211:LEU:HA	1:ir:214:MET:HB2	1.99	0.43
1:jy:141:ILE:O	1:jy:144:MET:HB2	2.18	0.43
1:k7:68:MET:HE1	1:k7:141:ILE:HG13	2.00	0.43
1:kl:185:MET:HE2	1:kl:189:LEU:HD12	1.99	0.43
1:kE:32:PHE:CD1	1:kE:138:LEU:HD22	2.54	0.43
1:l6:138:LEU:HA	1:l6:141:ILE:HD12	1.99	0.43
1:lp:62:HIS:HB3	1:lp:65:ALA:HB3	2.00	0.43
1:lx:124:ILE:HG22	1:lx:126:VAL:HG13	2.00	0.43
1:3a:117:TRP:CD1	1:3a:124:ILE:HD12	2.54	0.43
1:3C:117:TRP:CE3	1:3C:126:VAL:HG21	2.54	0.43
1:3W:64:ALA:HB1	1:3X:215:MET:HE3	2.00	0.43
1:4h:48:THR:HB	1:4h:49:PRO:HD2	1.99	0.43
1:4m:10:MET:HB3	1:4m:119:THR:HG22	2.01	0.43
1:4y:222:GLY:H	1:4y:226:HIS:CD2	2.36	0.43
1:4L:169:TYR:CE2	1:4L:172:LEU:HD13	2.53	0.43
1:4V:75:GLU:O	1:4V:78:ALA:HB3	2.19	0.43
1:58:97:ARG:HH22	1:58:103:ASP:CG	2.27	0.43
1:5Q:138:LEU:HD23	1:5Q:141:ILE:HD12	2.00	0.43
1:66:191:VAL:HG23	1:66:202:LEU:CB	2.48	0.43
1:6r:3:VAL:HG12	1:6r:5:ASN:H	1.83	0.43
1:6t:124:ILE:N	1:6t:124:ILE:HD12	2.34	0.43
1:75:24:VAL:HG12	1:75:59:VAL:HG22	1.99	0.43
1:7h:55:MET:HE3	1:7h:55:MET:HB3	1.92	0.43
1:7l:195:ASN:HA	1:7l:196:PRO:HD3	1.89	0.43
1:7Q:164:TYR:CZ	1:7Q:190:LEU:HD12	2.54	0.43
1:82:97:ARG:HH12	1:82:103:ASP:CG	2.25	0.43
1:8h:177:ALA:HB1	1:8h:181:VAL:HG21	2.00	0.43
1:8i:172:LEU:HD11	1:8i:182:LYS:HG2	2.01	0.43
1:8n:87:HIS:CG	1:8n:88:ALA:H	2.35	0.43
1:8q:69:LEU:HG	1:8q:137:GLY:HA3	2.01	0.43
1:8K:4:GLN:HA	1:8K:10:MET:HE2	2.00	0.43
1:8S:140:LYS:HE2	1:8S:140:LYS:HB2	1.92	0.43
1:9Z:168:PHE:CE2	1:9Z:172:LEU:HD11	2.53	0.43
1:aU:181:VAL:HG22	1:O:181:VAL:HG22	1.99	0.43
1:15:48:THR:HG22	1:15:118:MET:SD	2.59	0.43
1:b2:58:THR:HG23	1:b3:38:PRO:HG2	2.00	0.43
1:bn:13:GLN:HA	1:bn:13:GLN:HE21	1.83	0.43
1:bx:150:ILE:HG12	1:bx:185:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1a:220:GLY:HA3	1:1a:226:HIS:CG	2.54	0.43
1:cu:209:ALA:O	1:cu:214:MET:HE3	2.18	0.43
1:cw:126:VAL:HA	1:cw:129:ILE:HD12	2.00	0.43
1:cF:12:HIS:CE1	1:cF:51:ASP:OD1	2.71	0.43
1:cS:170:LYS:HG2	1:cX:63:GLN:HG3	2.01	0.43
1:dx:76:GLU:HB3	1:dx:133:TRP:CD2	2.54	0.43
1:1n:159:GLU:HA	1:1n:160:PRO:HD2	1.88	0.43
1:e9:122:PRO:HA	1:e9:123:PRO:HD3	1.86	0.43
1:eD:122:PRO:HA	1:eD:123:PRO:HD3	1.91	0.43
1:eU:165:VAL:HG22	1:eU:190:LEU:HD11	1.99	0.43
1:fc:87:HIS:HE1	1:fc:90:PRO:O	2.01	0.43
1:fD:160:PRO:CG	1:fD:226:HIS:CD2	3.01	0.43
1:fE:80:TRP:CD2	1:fE:84:HIS:CE1	3.07	0.43
1:fN:112:GLN:HE22	1:fO:128:GLU:HG3	1.84	0.43
1:h:165:VAL:HG22	1:h:190:LEU:HD11	2.00	0.43
1:gi:167:ARG:HE	1:gj:231:LEU:C	2.27	0.43
1:gm:150:ILE:HD11	1:gm:168:PHE:CZ	2.53	0.43
1:gv:195:ASN:HA	1:gv:196:PRO:HD3	1.89	0.43
1:gP:69:LEU:C	1:gP:69:LEU:HD23	2.44	0.43
1:gR:159:GLU:OE2	1:gR:229:ARG:NH2	2.52	0.43
1:h9:67:GLN:HB3	1:ha:211:LEU:HD23	2.01	0.43
1:1J:20:LEU:HD22	1:1J:58:THR:HG21	2.01	0.43
1:hq:50:GLN:HG2	1:hq:114:GLN:HE22	1.83	0.43
1:im:20:LEU:HB3	1:im:58:THR:HG21	2.01	0.43
1:iX:2:ILE:HD12	1:iX:2:ILE:HA	1.86	0.43
1:jg:131:LYS:HE2	1:jg:131:LYS:HB3	1.77	0.43
1:k4:56:LEU:HD23	1:k4:66:MET:HE1	2.01	0.43
1:kh:37:ILE:HD12	1:kh:37:ILE:H	1.84	0.43
1:ki:9:GLN:CD	1:ki:9:GLN:H	2.27	0.43
1:kz:47:ALA:O	1:kz:127:GLY:HA3	2.19	0.43
1:24:96:MET:HE1	1:24:116:GLY:HA3	2.01	0.43
1:l1:96:MET:HE2	1:l1:96:MET:HB2	1.90	0.43
1:l2:6:LEU:HG	1:l2:6:LEU:O	2.19	0.43
1:l6:12:HIS:CD2	1:l6:111:LEU:CD2	3.01	0.43
1:ln:69:LEU:HD13	1:ln:137:GLY:HA3	1.99	0.43
1:lK:201:ILE:HG21	1:lK:218:CYS:HA	2.01	0.43
1:lN:102:SER:HB3	1:lN:107:THR:HB	2.00	0.43
1:2c:175:GLU:HG3	1:2c:177:ALA:HB3	1.99	0.43
1:2k:38:PRO:HB2	1:2p:58:THR:HG22	2.00	0.43
1:3H:8:GLY:H	1:3H:10:MET:HE2	1.84	0.43
1:3J:32:PHE:CZ	1:3J:66:MET:HE3	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:45:104:ILE:CD1	1:45:126:VAL:HG12	2.49	0.43
1:4o:68:MET:HE3	1:4p:212:GLU:HG3	2.00	0.43
1:4q:195:ASN:HA	1:4q:196:PRO:HD2	1.98	0.43
1:4v:32:PHE:CZ	1:4v:62:HIS:CE1	3.07	0.43
1:4C:27:VAL:O	1:4C:31:ALA:HA	2.18	0.43
1:5K:218:CYS:SG	1:5K:226:HIS:CD2	3.12	0.43
1:6i:23:TRP:CE3	1:6i:43:LEU:HD13	2.54	0.43
1:7i:135:ILE:HA	1:7i:138:LEU:HD12	2.00	0.43
1:7T:32:PHE:HE1	1:7T:62:HIS:CE1	2.37	0.43
1:8x:27:VAL:HG11	1:8x:59:VAL:HG21	2.01	0.43
1:8Z:96:MET:HE1	1:8Z:120:HIS:CD2	2.54	0.43
1:9P:1:PRO:HA	1:9P:46:GLY:O	2.19	0.43
1:a6:96:MET:HE2	1:a6:120:HIS:CD2	2.54	0.43
1:al:15:ILE:HD12	1:al:51:ASP:HB3	2.00	0.43
1:aT:150:ILE:O	1:aT:153:ILE:HG22	2.19	0.43
1:15:32:PHE:CE2	1:15:141:ILE:HG21	2.53	0.43
1:br:139:ASN:O	1:br:143:ARG:HG3	2.19	0.43
1:bU:33:SER:HA	1:bU:34:PRO:HD3	1.87	0.43
1:c8:120:HIS:CG	1:c8:121:ASN:H	2.36	0.43
1:co:181:VAL:HG12	1:co:185:MET:HE3	2.00	0.43
1:dk:1:PRO:H3	1:dk:51:ASP:CG	2.26	0.43
1:dJ:144:MET:HE3	1:dJ:145:TYR:CE2	2.53	0.43
1:eb:87:HIS:CD2	1:eb:100:ARG:HG2	2.54	0.43
1:er:92:GLU:C	1:er:94:GLY:H	2.27	0.43
1:p:138:LEU:HA	1:p:141:ILE:HD12	2.01	0.43
1:C:150:ILE:HD11	1:C:168:PHE:CE1	2.54	0.43
1:gl:96:MET:HE1	1:gl:120:HIS:CD2	2.54	0.43
1:gL:80:TRP:CE2	1:gL:84:HIS:CE1	3.06	0.43
1:gW:64:ALA:HB2	1:gX:166:ASP:CA	2.48	0.43
1:h2:181:VAL:HG12	1:h2:185:MET:HE3	2.01	0.43
1:h5:87:HIS:CE1	1:h5:91:ILE:HG12	2.54	0.43
1:h5:96:MET:HE2	1:h5:117:TRP:N	2.34	0.43
1:hf:24:VAL:HG22	1:hf:59:VAL:HG22	2.01	0.43
1:hx:150:ILE:HD11	1:9:184:TRP:CZ2	2.53	0.43
1:ib:80:TRP:CZ2	1:ib:84:HIS:HE1	2.37	0.43
1:ic:83:LEU:HD23	1:ic:84:HIS:CE1	2.53	0.43
1:ip:65:ALA:HB1	1:ip:141:ILE:HD13	2.01	0.43
1:iD:150:ILE:O	1:iD:153:ILE:HG22	2.18	0.43
1:iP:202:LEU:HD22	1:iP:214:MET:HE3	2.01	0.43
1:jm:143:ARG:NH2	1:jm:176:GLN:H	2.17	0.43
1:jp:68:MET:HG3	1:jq:211:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ju:77:ALA:HA	1:ju:133:TRP:CH2	2.53	0.43
1:jE:25:LYS:HD2	1:jE:25:LYS:HA	1.90	0.43
1:jK:67:GLN:OE1	1:jK:67:GLN:HA	2.19	0.43
1:jR:72:THR:HG21	1:jR:137:GLY:HA2	2.01	0.43
1:kw:62:HIS:CE1	1:kw:64:ALA:HB3	2.54	0.43
1:kx:138:LEU:HD23	1:kx:141:ILE:HD12	2.01	0.43
1:lw:186:THR:HG23	1:lw:190:LEU:HD23	2.00	0.43
1:2V:155:GLN:O	1:2V:155:GLN:HG2	2.18	0.43
1:3u:109:SER:HB3	1:3u:114:GLN:HE21	1.84	0.43
1:3R:161:PHE:CE2	1:3R:202:LEU:HD11	2.53	0.43
1:4n:165:VAL:HG21	1:4n:211:LEU:HD11	2.01	0.43
1:57:113:GLU:HB3	1:57:117:TRP:CH2	2.53	0.43
1:5u:12:HIS:CD2	1:5u:115:ILE:HD11	2.54	0.43
1:5I:97:ARG:HH22	1:5I:103:ASP:CG	2.27	0.43
1:6R:86:VAL:HG13	1:6R:98:GLU:HB2	2.00	0.43
1:6W:211:LEU:HD23	1:6W:211:LEU:HA	1.83	0.43
1:7F:143:ARG:HH21	1:7F:175:GLU:CD	2.26	0.43
1:8g:96:MET:HE2	1:8g:116:GLY:HA3	2.01	0.43
1:8v:86:VAL:HG22	1:8v:87:HIS:H	1.83	0.43
1:94:68:MET:HE1	1:94:144:MET:HG3	2.00	0.43
1:9H:97:ARG:HH12	1:9H:103:ASP:CG	2.27	0.43
1:ae:19:THR:HG23	1:ae:43:LEU:HD22	2.00	0.43
1:aw:226:HIS:CD2	1:aw:227:LYS:HG2	2.54	0.43
1:aE:150:ILE:HD11	1:aE:168:PHE:CD1	2.54	0.43
1:aN:40:PHE:CZ	1:aN:52:LEU:HD22	2.54	0.43
1:bq:161:PHE:O	1:bq:165:VAL:HG23	2.18	0.43
1:19:181:VAL:HG12	1:19:185:MET:HE3	2.01	0.43
1:c7:124:ILE:HG22	1:c7:126:VAL:HG13	2.01	0.43
1:cK:62:HIS:HB3	1:cK:65:ALA:HB3	2.00	0.43
1:dz:173:ARG:NE	1:dz:173:ARG:HA	2.34	0.43
1:dX:155:GLN:HA	1:dX:164:TYR:CE2	2.54	0.43
1:dX:226:HIS:CD2	1:dX:231:LEU:HD21	2.53	0.43
1:ec:141:ILE:O	1:ec:145:TYR:HB2	2.19	0.43
1:eI:102:SER:HB2	1:eI:108:THR:HG23	2.01	0.43
1:eQ:37:ILE:H	1:eQ:37:ILE:HD12	1.83	0.43
1:f8:205:LEU:CD2	1:f8:214:MET:HA	2.49	0.43
1:fC:40:PHE:CZ	1:fC:134:ILE:HG21	2.53	0.43
1:0:223:GLY:HA2	1:0:224:PRO:C	2.43	0.43
1:gA:191:VAL:H	1:gA:191:VAL:HG23	1.55	0.43
1:1E:97:ARG:HH22	1:1E:103:ASP:CG	2.27	0.43
1:hp:76:GLU:HB3	1:hp:133:TRP:CD2	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:hu:117:TRP:CE3	1:hu:126:VAL:HG11	2.53	0.43
1:hA:6:LEU:HD23	1:hA:6:LEU:H	1.84	0.43
1:hL:155:GLN:HB2	1:hL:164:TYR:CG	2.53	0.43
1:i3:12:HIS:CB	1:i3:115:ILE:HD11	2.49	0.43
1:ir:68:MET:SD	1:ir:68:MET:C	3.02	0.43
1:ix:50:GLN:HG3	1:ix:114:GLN:HE22	1.84	0.43
1:iG:105:ALA:HA	1:iG:130:TYR:CE1	2.54	0.43
1:1S:130:TYR:CZ	1:1S:134:ILE:HD11	2.54	0.43
1:jk:6:LEU:HD23	1:jk:6:LEU:HA	1.85	0.43
1:jT:150:ILE:HG23	1:jT:151:LEU:HD22	2.01	0.43
1:k0:39:MET:HA	1:k0:39:MET:HE2	2.00	0.43
1:ks:150:ILE:HG23	1:ks:151:LEU:HG	2.00	0.43
1:kZ:138:LEU:HA	1:kZ:141:ILE:HD12	2.00	0.43
1:le:40:PHE:CZ	1:le:134:ILE:HG21	2.54	0.43
1:ln:160:PRO:HD3	1:ln:221:VAL:HG11	2.01	0.43
1:lq:20:LEU:HD23	1:lq:55:MET:SD	2.58	0.43
1:lt:73:ILE:HG22	1:lt:133:TRP:HB3	2.01	0.43
1:lu:17:PRO:HB3	1:lv:42:ALA:HB1	2.00	0.43
1:35:37:ILE:CG2	1:35:135:ILE:HG23	2.49	0.43
1:3a:76:GLU:CD	1:3a:132:ARG:HH22	2.26	0.43
1:3M:150:ILE:HD11	1:3M:168:PHE:CE2	2.54	0.43
1:3R:146:SER:HA	1:3R:147:PRO:HD3	1.85	0.43
1:3W:191:VAL:HG22	1:3W:202:LEU:HB3	2.01	0.43
1:43:69:LEU:C	1:43:69:LEU:CD2	2.91	0.43
1:49:189:LEU:HD11	1:y:151:LEU:HB2	2.00	0.43
1:4E:168:PHE:CD2	1:4E:190:LEU:HD13	2.54	0.43
1:5c:124:ILE:HD12	1:5c:124:ILE:N	2.34	0.43
1:63:28:GLU:HG2	1:64:231:LEU:HB2	2.00	0.43
1:6k:32:PHE:CE2	1:6k:145:TYR:CD1	3.07	0.43
1:7g:125:PRO:O	1:7g:129:ILE:HG13	2.17	0.43
1:7W:148:THR:O	1:7W:149:SER:HB3	2.19	0.43
1:8v:148:THR:HG22	1:8v:152:ASP:CB	2.49	0.43
1:8w:223:GLY:O	1:8w:226:HIS:CE1	2.72	0.43
1:8A:161:PHE:CE1	1:8A:165:VAL:HG21	2.53	0.43
1:8S:217:ALA:HA	1:F:203:LYS:HG3	2.01	0.43
1:aM:23:TRP:HB2	1:aM:43:LEU:HD13	2.01	0.43
1:aN:32:PHE:O	1:aN:142:VAL:HG12	2.19	0.43
1:aN:37:ILE:CG2	1:aN:135:ILE:HG23	2.49	0.43
1:aN:159:GLU:HA	1:aN:160:PRO:HD2	1.91	0.43
1:bl:87:HIS:HB2	1:bl:96:MET:SD	2.59	0.43
1:bI:80:TRP:CZ2	1:bI:84:HIS:HE1	2.37	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:bS:163:ASP:CG	1:bS:167:ARG:HH21	2.26	0.43
1:1e:120:HIS:CG	1:1e:121:ASN:N	2.87	0.43
1:cu:56:LEU:HD13	1:cu:69:LEU:HD21	2.01	0.43
1:dB:65:ALA:HB1	1:dB:141:ILE:HG12	2.00	0.43
1:ek:150:ILE:HD11	1:ek:168:PHE:CE2	2.54	0.43
1:eo:91:ILE:HD12	1:eo:92:GLU:H	1.84	0.43
1:et:155:GLN:HG3	1:et:164:TYR:HB2	2.00	0.43
1:fc:62:HIS:CE1	1:fc:64:ALA:HB3	2.53	0.43
1:fc:104:ILE:HG22	1:fc:130:TYR:HB2	2.01	0.43
1:a:195:ASN:HB2	1:a:196:PRO:HD2	2.01	0.43
1:d:11:VAL:HG11	1:e:10:MET:SD	2.58	0.43
1:G:62:HIS:HB3	1:G:65:ALA:HB3	2.01	0.43
1:1E:154:ARG:HA	1:1E:193:ASN:HB3	2.00	0.42
1:gY:96:MET:HE2	1:gY:116:GLY:HA3	2.01	0.42
1:h8:47:ALA:HB1	1:h8:51:ASP:HB2	2.00	0.42
1:hg:12:HIS:CD2	1:hh:4:GLN:HB2	2.54	0.42
1:ho:69:LEU:HD12	1:ho:137:GLY:HA3	2.00	0.42
1:ho:195:ASN:HD21	1:ho:221:VAL:CG1	2.32	0.42
1:hq:3:VAL:HG22	1:hq:13:GLN:HG2	2.01	0.42
1:i6:80:TRP:CZ2	1:i6:104:ILE:HD11	2.54	0.42
1:iq:150:ILE:CG2	1:iq:185:MET:HE3	2.49	0.42
1:iD:66:MET:HA	1:iD:66:MET:HE2	2.01	0.42
1:j0:218:CYS:O	1:j0:221:VAL:HG22	2.18	0.42
1:jg:150:ILE:O	1:jg:153:ILE:HG22	2.19	0.42
1:jo:79:GLU:CD	1:jo:82:ARG:HH21	2.27	0.42
1:jr:97:ARG:HH22	1:jr:103:ASP:CG	2.27	0.42
1:jt:80:TRP:CZ2	1:jt:84:HIS:CE1	3.07	0.42
1:kc:231:LEU:HD12	1:kc:231:LEU:H	1.84	0.42
1:kJ:80:TRP:CZ3	1:kJ:84:HIS:HE1	2.37	0.42
1:kO:229:ARG:H	1:kO:229:ARG:CD	2.31	0.42
1:lK:24:VAL:HG22	1:lK:59:VAL:HG22	2.01	0.42
1:2k:97:ARG:HH21	1:2k:113:GLU:CD	2.27	0.42
1:47:76:GLU:HB3	1:47:133:TRP:CD1	2.54	0.42
1:4i:151:LEU:HA	1:4i:189:LEU:HD22	2.01	0.42
1:52:120:HIS:CG	1:52:121:ASN:N	2.87	0.42
1:5o:23:TRP:HA	1:5o:26:VAL:HG22	2.00	0.42
1:5z:68:MET:HB2	1:5z:141:ILE:HD11	2.00	0.42
1:5N:92:GLU:O	1:5N:95:GLN:HG2	2.19	0.42
1:5R:27:VAL:HG21	1:5R:59:VAL:HG11	2.00	0.42
1:64:34:PRO:HG3	1:64:142:VAL:HG11	2.00	0.42
1:6e:97:ARG:HH22	1:6e:103:ASP:CG	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6f:170:LYS:O	1:6f:173:ARG:HG3	2.18	0.42
1:6m:197:ASP:OD2	1:dY:229:ARG:NE	2.52	0.42
1:6J:1:PRO:H3	1:6J:51:ASP:CG	2.27	0.42
1:6T:165:VAL:HG21	1:6T:215:MET:HE1	2.01	0.42
1:7u:126:VAL:HG13	1:7u:127:GLY:N	2.34	0.42
1:8l:153:ILE:HG21	1:8l:168:PHE:HA	2.00	0.42
1:8D:58:THR:O	1:8D:58:THR:HG22	2.19	0.42
1:9i:83:LEU:HD23	1:9i:84:HIS:CE1	2.52	0.42
1:9t:97:ARG:HH22	1:9t:103:ASP:CG	2.27	0.42
1:9L:69:LEU:HD23	1:9L:69:LEU:C	2.45	0.42
1:aI:13:GLN:OE1	1:aI:13:GLN:HA	2.19	0.42
1:c1:127:GLY:O	1:c1:131:LYS:HB3	2.18	0.42
1:ca:60:GLY:HA2	1:cb:173:ARG:NH1	2.34	0.42
1:ct:150:ILE:HD12	1:ct:172:LEU:HA	2.00	0.42
1:cC:20:LEU:HD23	1:cC:20:LEU:HA	1.85	0.42
1:cD:185:MET:HE1	1:X:184:TRP:CH2	2.54	0.42
1:1j:1:PRO:H3	1:1j:51:ASP:CG	2.26	0.42
1:dk:65:ALA:HA	1:dk:68:MET:HE3	2.00	0.42
1:dx:80:TRP:CZ2	1:dx:84:HIS:CE1	3.07	0.42
1:dC:201:ILE:H	1:dC:201:ILE:HD12	1.84	0.42
1:dV:40:PHE:CZ	1:dV:134:ILE:HG21	2.54	0.42
1:e6:97:ARG:HH22	1:e6:103:ASP:CG	2.26	0.42
1:ek:190:LEU:HD23	1:ek:190:LEU:C	2.44	0.42
1:f2:31:ALA:HB3	1:f3:231:LEU:HD13	2.01	0.42
1:fj:186:THR:HG21	1:fj:214:MET:HE1	2.01	0.42
1:fl:13:GLN:HA	1:fl:13:GLN:HE21	1.84	0.42
1:g1:80:TRP:CH2	1:g1:84:HIS:HE1	2.37	0.42
1:j:120:HIS:CG	1:j:121:ASN:N	2.87	0.42
1:R:23:TRP:HA	1:R:26:VAL:HG12	2.01	0.42
1:go:40:PHE:CZ	1:go:134:ILE:HG21	2.54	0.42
1:gu:151:LEU:HD12	1:gu:151:LEU:H	1.84	0.42
1:h6:171:THR:O	1:h6:174:ALA:HB3	2.19	0.42
1:hx:77:ALA:HB2	1:hx:133:TRP:CZ3	2.54	0.42
1:hO:170:LYS:HG3	1:hT:63:GLN:HG3	2.01	0.42
1:hR:20:LEU:HD21	1:hR:54:THR:HG22	2.01	0.42
1:ic:11:VAL:HG12	1:ic:12:HIS:N	2.33	0.42
1:if:2:ILE:HG12	1:if:118:MET:HE2	2.00	0.42
1:in:105:ALA:HA	1:in:130:TYR:CE1	2.54	0.42
1:iq:110:THR:CG2	1:iq:112:GLN:HE22	2.32	0.42
1:iB:80:TRP:CZ2	1:iB:84:HIS:CE1	3.07	0.42
1:jz:63:GLN:O	1:jz:67:GLN:HG2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:20:164:TYR:CE2	1:20:190:LEU:HD12	2.53	0.42
1:kh:32:PHE:HA	1:kh:36:VAL:HG21	2.01	0.42
1:29:172:LEU:HD21	1:29:182:LYS:CG	2.49	0.42
1:lI:185:MET:SD	1:lI:189:LEU:HD23	2.59	0.42
1:2A:117:TRP:HB3	1:2A:124:ILE:HB	2.01	0.42
1:3u:80:TRP:CH2	1:3u:84:HIS:HE1	2.36	0.42
1:3M:96:MET:HE1	1:3M:113:GLU:HG3	2.01	0.42
1:5e:15:ILE:HD13	1:5e:20:LEU:HD21	2.00	0.42
1:5h:20:LEU:HD22	1:5h:58:THR:HG21	2.01	0.42
1:5D:105:ALA:HA	1:5D:130:TYR:CE1	2.54	0.42
1:6K:12:HIS:HE1	1:6L:45:GLU:OE1	2.02	0.42
1:7d:96:MET:O	1:7d:97:ARG:HB3	2.19	0.42
1:7j:161:PHE:HA	1:7j:164:TYR:HB3	2.01	0.42
1:7Q:69:LEU:HD13	1:7Q:69:LEU:C	2.43	0.42
1:80:40:PHE:CZ	1:80:134:ILE:HG21	2.54	0.42
1:8m:141:ILE:O	1:8m:141:ILE:HG22	2.18	0.42
1:8T:161:PHE:O	1:8T:165:VAL:HG23	2.18	0.42
1:8T:185:MET:HA	1:8T:189:LEU:HD23	2.00	0.42
1:a8:159:GLU:HA	1:a8:160:PRO:HD3	1.89	0.42
1:ae:187:GLU:O	1:ae:191:VAL:HG23	2.18	0.42
1:aN:68:MET:HE1	1:aN:144:MET:SD	2.60	0.42
1:aY:150:ILE:HD12	1:aY:150:ILE:HA	1.92	0.42
1:bm:138:LEU:HA	1:bm:141:ILE:HD12	2.01	0.42
1:bq:18:ARG:HA	1:bq:21:ASN:HB2	2.01	0.42
1:bv:73:ILE:HD11	1:bv:134:ILE:HG12	2.01	0.42
1:c8:214:MET:O	1:c8:217:ALA:HB3	2.19	0.42
1:ca:191:VAL:HG22	1:ca:202:LEU:HB3	2.00	0.42
1:dt:166:ASP:O	1:dt:170:LYS:HB2	2.19	0.42
1:du:1:PRO:HA	1:du:46:GLY:O	2.19	0.42
1:dF:187:GLU:HA	1:dF:191:VAL:HB	2.01	0.42
1:el:150:ILE:HD12	1:el:153:ILE:HD11	2.01	0.42
1:f9:40:PHE:CZ	1:f9:134:ILE:HG21	2.53	0.42
1:fW:162:ARG:HH12	1:fW:226:HIS:CE1	2.36	0.42
1:d:37:ILE:HB	1:d:38:PRO:HD3	2.01	0.42
1:w:72:THR:HG21	1:w:137:GLY:HA2	2.01	0.42
1:H:205:LEU:HB3	1:H:209:ALA:HB2	1.99	0.42
1:6:80:TRP:CZ2	1:6:84:HIS:CE1	3.06	0.42
1:gx:87:HIS:CD2	1:gx:98:GLU:HB2	2.55	0.42
1:1E:71:GLU:CD	1:1F:173:ARG:HH12	2.26	0.42
1:gC:162:ARG:NH2	1:gC:225:GLY:O	2.52	0.42
1:gS:97:ARG:HH22	1:gS:103:ASP:CG	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:gV:73:ILE:HG22	1:gV:133:TRP:HB3	2.01	0.42
1:1H:120:HIS:CG	1:1H:121:ASN:H	2.37	0.42
1:hj:104:ILE:CD1	1:hj:126:VAL:HG12	2.48	0.42
1:hH:70:LYS:HA	1:hH:73:ILE:HG12	2.01	0.42
1:hL:37:ILE:H	1:hL:37:ILE:HD12	1.85	0.42
1:hZ:80:TRP:CE2	1:hZ:84:HIS:CE1	3.07	0.42
1:ii:143:ARG:HH12	1:ii:175:GLU:CD	2.27	0.42
1:iy:178:SER:HB2	1:iy:181:VAL:HG23	2.00	0.42
1:iN:1:PRO:N	1:iN:13:GLN:O	2.52	0.42
1:j4:83:LEU:HD23	1:j4:84:HIS:CE1	2.55	0.42
1:jl:85:PRO:HB2	1:jl:87:HIS:CE1	2.54	0.42
1:jm:15:ILE:HD12	1:jm:15:ILE:HA	1.91	0.42
1:1W:97:ARG:HH21	1:1W:113:GLU:CD	2.26	0.42
1:jw:165:VAL:HG22	1:jw:190:LEU:HD11	2.02	0.42
1:jP:83:LEU:HD23	1:jP:84:HIS:CE1	2.54	0.42
1:k9:68:MET:HE3	1:ka:212:GLU:HB3	2.02	0.42
1:kw:161:PHE:CE2	1:kw:202:LEU:HD11	2.55	0.42
1:kO:110:THR:HG23	1:kO:112:GLN:N	2.34	0.42
1:l8:68:MET:HE2	1:l8:68:MET:HB3	1.83	0.42
1:lo:196:PRO:HA	1:lo:199:LYS:HB2	2.01	0.42
1:lK:80:TRP:CE2	1:lK:84:HIS:CE1	3.07	0.42
1:33:163:ASP:CG	1:33:229:ARG:HH22	2.28	0.42
1:33:184:TRP:CG	1:5q:181:VAL:HG21	2.54	0.42
1:3S:120:HIS:CG	1:3S:121:ASN:N	2.88	0.42
1:45:1:PRO:HA	1:45:46:GLY:O	2.20	0.42
1:48:10:MET:HB2	1:48:119:THR:HG21	2.02	0.42
1:4k:120:HIS:CG	1:4k:121:ASN:N	2.86	0.42
1:4o:143:ARG:HH12	1:4o:175:GLU:CD	2.27	0.42
1:4r:168:PHE:CZ	1:4r:190:LEU:HB2	2.54	0.42
1:4D:19:THR:HG23	1:4D:43:LEU:HD22	2.01	0.42
1:4E:211:LEU:HD23	1:4J:68:MET:HA	2.01	0.42
1:55:117:TRP:CD2	1:55:126:VAL:HG21	2.54	0.42
1:5n:12:HIS:CG	1:5n:115:ILE:HD11	2.54	0.42
1:5p:168:PHE:CE2	1:5p:172:LEU:HD12	2.54	0.42
1:5C:98:GLU:HA	1:5C:99:PRO:HD2	1.91	0.42
1:61:68:MET:HE2	1:61:140:LYS:HE2	2.00	0.42
1:6j:138:LEU:HA	1:6j:138:LEU:HD23	1.77	0.42
1:6m:62:HIS:HB3	1:6m:65:ALA:HB3	2.01	0.42
1:6A:10:MET:HG3	1:6A:119:THR:HB	2.00	0.42
1:74:62:HIS:HB3	1:74:65:ALA:HB3	2.00	0.42
1:84:229:ARG:NE	1:84:229:ARG:HA	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8b:87:HIS:CE1	1:8b:91:ILE:HA	2.54	0.42
1:8m:91:ILE:HD12	1:8m:92:GLU:H	1.85	0.42
1:8K:118:MET:SD	1:8K:125:PRO:HA	2.59	0.42
1:90:148:THR:HA	1:91:230:VAL:HG13	2.01	0.42
1:9g:8:GLY:HA2	1:9h:6:LEU:HD12	2.01	0.42
1:9j:32:PHE:CG	1:9j:138:LEU:HD22	2.54	0.42
1:9q:1:PRO:H3	1:9q:51:ASP:CG	2.27	0.42
1:9E:172:LEU:HD12	1:9E:172:LEU:HA	1.90	0.42
1:9O:23:TRP:HA	1:9O:39:MET:HE1	2.00	0.42
1:9T:69:LEU:HB2	1:9T:141:ILE:HD11	2.01	0.42
1:a1:52:LEU:HD12	1:a1:130:TYR:CD2	2.54	0.42
1:ar:83:LEU:HD23	1:ar:84:HIS:CE1	2.54	0.42
1:aP:80:TRP:NE1	1:aP:104:ILE:HD12	2.34	0.42
1:aZ:172:LEU:HD12	1:aZ:175:GLU:HB3	2.01	0.42
1:b2:87:HIS:CE1	1:b2:91:ILE:HA	2.54	0.42
1:bz:130:TYR:CE1	1:bz:134:ILE:HD11	2.54	0.42
1:ca:211:LEU:C	1:ca:211:LEU:HD13	2.44	0.42
1:ch:96:MET:HG2	1:ch:120:HIS:CD2	2.53	0.42
1:cv:62:HIS:O	1:cv:65:ALA:HB3	2.20	0.42
1:cx:104:ILE:HG12	1:cx:126:VAL:HG12	2.00	0.42
1:1j:37:ILE:HD12	1:1j:37:ILE:H	1.84	0.42
1:dh:105:ALA:HA	1:dh:130:TYR:CE1	2.55	0.42
1:dj:1:PRO:HA	1:dj:46:GLY:O	2.19	0.42
1:dD:97:ARG:HH12	1:dD:103:ASP:CG	2.27	0.42
1:ez:87:HIS:CE1	1:ez:91:ILE:HA	2.54	0.42
1:eB:6:LEU:HD23	1:eB:9:GLN:HG3	2.01	0.42
1:fw:86:VAL:HG22	1:fw:98:GLU:HB2	2.01	0.42
1:g6:120:HIS:CG	1:g6:121:ASN:N	2.88	0.42
1:gv:168:PHE:CG	1:gv:190:LEU:HD13	2.55	0.42
1:gB:172:LEU:O	1:gB:172:LEU:HG	2.20	0.42
1:1H:150:ILE:HG21	1:1H:185:MET:SD	2.60	0.42
1:hb:80:TRP:CZ2	1:hb:84:HIS:HE1	2.37	0.42
1:1L:1:PRO:H3	1:1L:51:ASP:CG	2.27	0.42
1:ib:159:GLU:CD	1:ib:229:ARG:HH22	2.27	0.42
1:ii:144:MET:HE1	1:ij:216:THR:CG2	2.49	0.42
1:iF:223:GLY:O	1:iF:226:HIS:CD2	2.71	0.42
1:iL:37:ILE:HG23	1:iL:135:ILE:HD13	2.01	0.42
1:j9:10:MET:HB3	1:j9:119:THR:HG22	2.01	0.42
1:jo:150:ILE:CG2	1:jo:185:MET:HE1	2.50	0.42
1:jI:10:MET:HA	1:jI:119:THR:CG2	2.49	0.42
1:jV:33:SER:O	1:jV:36:VAL:HG12	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:21:184:TRP:HA	1:21:187:GLU:HB2	2.01	0.42
1:kv:27:VAL:HG11	1:kv:59:VAL:HG11	2.02	0.42
1:kM:76:GLU:O	1:kM:79:GLU:HB3	2.20	0.42
1:ld:214:MET:HB3	1:ld:214:MET:HE3	1.87	0.42
1:lv:172:LEU:HD13	1:lv:182:LYS:HE2	2.00	0.42
1:lF:214:MET:HE3	1:lF:214:MET:HB3	1.75	0.42
1:lR:95:GLN:HA	1:lR:120:HIS:HE1	1.85	0.42
1:2h:148:THR:HG23	1:2h:153:ILE:HD11	2.02	0.42
1:2o:224:PRO:HG2	1:2o:226:HIS:CE1	2.55	0.42
1:2u:32:PHE:CD2	1:2u:141:ILE:HG21	2.54	0.42
1:2W:68:MET:CE	1:2W:140:LYS:HE3	2.50	0.42
1:4B:150:ILE:HG21	1:4B:185:MET:SD	2.58	0.42
1:4O:161:PHE:O	1:4O:165:VAL:HG23	2.19	0.42
1:52:23:TRP:CG	1:52:43:LEU:HD22	2.54	0.42
1:5f:80:TRP:CZ2	1:5f:129:ILE:HD13	2.54	0.42
1:5y:83:LEU:HD23	1:5y:84:HIS:CE1	2.55	0.42
1:5L:185:MET:CE	1:7Q:184:TRP:CZ2	3.03	0.42
1:5U:97:ARG:HH12	1:5U:103:ASP:CG	2.27	0.42
1:69:165:VAL:HG22	1:69:190:LEU:HD11	2.01	0.42
1:6k:58:THR:HG22	1:6l:38:PRO:HB2	2.01	0.42
1:6G:1:PRO:H3	1:6G:51:ASP:CG	2.27	0.42
1:6G:104:ILE:HG22	1:6G:130:TYR:HB2	2.02	0.42
1:6W:153:ILE:HD11	1:6W:168:PHE:CD1	2.55	0.42
1:8b:76:GLU:HB3	1:8b:133:TRP:CE2	2.54	0.42
1:9l:62:HIS:O	1:9l:65:ALA:HB3	2.20	0.42
1:ah:155:GLN:HA	1:ah:164:TYR:CG	2.54	0.42
1:aq:64:ALA:HB2	1:ar:165:VAL:HG11	2.01	0.42
1:13:77:ALA:HB1	1:13:101:GLY:HA3	2.00	0.42
1:aI:200:THR:HG21	1:c2:201:ILE:HG12	2.02	0.42
1:b2:172:LEU:HD11	1:b2:182:LYS:HG2	2.00	0.42
1:bp:195:ASN:HA	1:bp:196:PRO:HD3	1.90	0.42
1:bt:154:ARG:HA	1:bt:193:ASN:HB3	2.01	0.42
1:bu:158:LYS:HD3	1:bu:158:LYS:HA	1.96	0.42
1:bB:120:HIS:CG	1:bB:121:ASN:N	2.87	0.42
1:bX:26:VAL:HG12	1:bX:36:VAL:HG23	2.01	0.42
1:ch:31:ALA:HA	1:ch:36:VAL:HB	2.00	0.42
1:cr:201:ILE:HG21	1:cr:218:CYS:H	1.84	0.42
1:dd:201:ILE:H	1:dd:201:ILE:HG13	1.58	0.42
1:1l:131:LYS:HA	1:1l:134:ILE:HD12	2.02	0.42
1:eo:33:SER:O	1:eo:36:VAL:HG12	2.19	0.42
1:1s:97:ARG:HH22	1:1s:103:ASP:CG	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f8:2:ILE:C	1:f8:2:ILE:HD12	2.45	0.42
1:fc:114:GLN:HA	1:fc:117:TRP:CE3	2.54	0.42
1:fp:20:LEU:HD13	1:fp:58:THR:HG21	2.00	0.42
1:ft:150:ILE:HD11	1:ft:172:LEU:HA	2.01	0.42
1:fA:163:ASP:O	1:fA:166:ASP:HB3	2.19	0.42
1:1y:14:ALA:HB1	1:1z:45:GLU:HG2	2.01	0.42
1:fF:98:GLU:HA	1:fF:99:PRO:HD2	1.95	0.42
1:fZ:54:THR:HG22	1:fZ:58:THR:HG23	2.00	0.42
1:g1:69:LEU:HD21	1:g1:138:LEU:HG	2.01	0.42
1:g5:231:LEU:N	1:g5:231:LEU:HD22	2.34	0.42
1:r:151:LEU:HA	1:r:189:LEU:HD21	2.00	0.42
1:w:201:ILE:HD11	1:w:221:VAL:HG11	2.01	0.42
1:E:4:GLN:HG3	1:F:14:ALA:HB3	2.01	0.42
1:V:120:HIS:CG	1:V:121:ASN:N	2.88	0.42
1:ga:180:GLU:HB2	1:eh:180:GLU:HG2	2.01	0.42
1:go:64:ALA:HB2	1:gp:165:VAL:HG12	2.01	0.42
1:gv:71:GLU:HG3	1:gw:211:LEU:HD22	2.00	0.42
1:gx:164:TYR:CE2	1:gx:190:LEU:HD12	2.55	0.42
1:ie:184:TRP:CH2	1:in:151:LEU:HD21	2.54	0.42
1:iF:151:LEU:HD11	1:7:189:LEU:HD11	2.01	0.42
1:j1:87:HIS:CD2	1:j1:91:ILE:HD11	2.55	0.42
1:1V:69:LEU:HD23	1:1V:69:LEU:C	2.44	0.42
1:jp:26:VAL:HG21	1:jp:39:MET:HG2	2.01	0.42
1:jM:181:VAL:HG22	1:jV:181:VAL:HG22	2.01	0.42
1:jS:195:ASN:HD22	1:jS:195:ASN:H	1.66	0.42
1:ku:34:PRO:HA	1:ku:37:ILE:HD13	2.01	0.42
1:kW:156:GLY:H	1:kW:159:GLU:CD	2.28	0.42
1:l3:117:TRP:CE3	1:l3:126:VAL:HG11	2.54	0.42
1:2a:44:SER:HB2	1:2a:131:LYS:HD3	2.02	0.42
1:lN:12:HIS:CD2	1:lN:111:LEU:HD23	2.54	0.42
1:2f:104:ILE:HG23	1:2f:126:VAL:O	2.20	0.42
1:2l:153:ILE:HD12	1:2l:153:ILE:C	2.44	0.42
1:2z:63:GLN:HA	1:2z:66:MET:HB2	2.01	0.42
1:2L:204:ALA:HB2	1:53:201:ILE:HD12	2.01	0.42
1:2R:147:PRO:HB3	1:2S:226:HIS:CG	2.54	0.42
1:36:150:ILE:HD11	1:36:168:PHE:CE1	2.54	0.42
1:3v:19:THR:HG22	1:3v:55:MET:HE1	2.00	0.42
1:4f:195:ASN:HA	1:4f:196:PRO:HD3	1.96	0.42
1:4C:217:ALA:HB2	1:6M:207:PRO:CD	2.50	0.42
1:4F:1:PRO:H3	1:4F:51:ASP:CG	2.28	0.42
1:58:144:MET:HE2	1:58:144:MET:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:5g:79:GLU:CD	1:5g:82:ARG:HH21	2.28	0.42
1:5U:80:TRP:CE2	1:5U:84:HIS:CE1	3.08	0.42
1:5X:69:LEU:HD23	1:5X:69:LEU:C	2.45	0.42
1:6b:27:VAL:O	1:6b:31:ALA:HA	2.19	0.42
1:6e:120:HIS:CG	1:6e:121:ASN:N	2.88	0.42
1:6j:120:HIS:CG	1:6j:121:ASN:N	2.88	0.42
1:6m:47:ALA:HB1	1:6m:51:ASP:HB2	2.01	0.42
1:6X:1:PRO:H3	1:6X:51:ASP:CG	2.27	0.42
1:8H:78:ALA:O	1:8H:82:ARG:HG3	2.19	0.42
1:8O:209:ALA:CB	1:8O:214:MET:HE2	2.47	0.42
1:ai:2:ILE:HD13	1:ai:12:HIS:HA	2.01	0.42
1:12:158:LYS:HA	1:12:158:LYS:HE2	2.01	0.42
1:av:3:VAL:HG22	1:av:11:VAL:H	1.84	0.42
1:aE:143:ARG:HB2	1:aE:176:GLN:HG2	2.01	0.42
1:aH:11:VAL:CG1	1:aH:13:GLN:HE21	2.33	0.42
1:b9:189:LEU:H	1:b9:189:LEU:HG	1.68	0.42
1:bO:112:GLN:H	1:bO:112:GLN:CD	2.27	0.42
1:1b:1:PRO:H3	1:1b:51:ASP:CG	2.27	0.42
1:c4:210:THR:H	1:c4:210:THR:HG22	1.58	0.42
1:c8:120:HIS:CG	1:c8:121:ASN:N	2.87	0.42
1:cI:13:GLN:HA	1:cI:13:GLN:OE1	2.19	0.42
1:cL:143:ARG:HA	1:cL:174:ALA:HB1	2.02	0.42
1:d1:138:LEU:HD23	1:d1:138:LEU:HA	1.89	0.42
1:d6:80:TRP:CZ3	1:d6:84:HIS:HE1	2.38	0.42
1:dH:144:MET:HE3	1:dI:212:GLU:HB2	2.01	0.42
1:eS:69:LEU:HD23	1:eS:137:GLY:HA3	2.01	0.42
1:eZ:65:ALA:HB2	1:eZ:145:TYR:CE1	2.55	0.42
1:f3:56:LEU:HD22	1:f3:66:MET:HE1	2.00	0.42
1:g5:80:TRP:CH2	1:g5:129:ILE:HD13	2.54	0.42
1:l:104:ILE:HD13	1:l:126:VAL:HG13	2.00	0.42
1:x:47:ALA:HB1	1:x:51:ASP:HB2	2.01	0.42
1:T:229:ARG:HH21	1:T:231:LEU:CD1	2.33	0.42
1:ga:159:GLU:HG2	1:ga:164:TYR:HB2	2.02	0.42
1:gf:87:HIS:HE1	1:gf:90:PRO:O	2.03	0.42
1:gu:105:ALA:HA	1:gu:130:TYR:CE1	2.54	0.42
1:h1:120:HIS:CG	1:h1:121:ASN:H	2.37	0.42
1:hw:204:ALA:HB2	1:bN:200:THR:CG2	2.49	0.42
1:ii:12:HIS:CE1	1:ii:111:LEU:HD21	2.54	0.42
1:io:43:LEU:HA	1:io:43:LEU:HD23	1.86	0.42
1:iY:7:GLN:HB3	1:j3:11:VAL:HG23	2.02	0.42
1:j3:172:LEU:HD13	1:j3:177:ALA:H	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jb:155:GLN:HG3	1:jb:164:TYR:CD2	2.54	0.42
1:ju:104:ILE:CD1	1:ju:126:VAL:HG12	2.48	0.42
1:kk:230:VAL:H	1:kk:230:VAL:HG23	1.50	0.42
1:24:1:PRO:N	1:24:12:HIS:CE1	2.88	0.42
1:kS:40:PHE:CZ	1:kS:134:ILE:HG21	2.54	0.42
1:kV:97:ARG:NE	1:kV:113:GLU:OE1	2.53	0.42
1:lL:150:ILE:HG23	1:lL:185:MET:SD	2.59	0.42
1:2E:211:LEU:C	1:2E:211:LEU:HD13	2.44	0.42
1:2I:136:LEU:HD12	1:2I:136:LEU:HA	1.76	0.42
1:3C:71:GLU:HA	1:3C:71:GLU:OE2	2.20	0.42
1:45:68:MET:HE2	1:46:215:MET:HB3	2.01	0.42
1:46:21:ASN:O	1:46:25:LYS:HG3	2.19	0.42
1:4u:80:TRP:CE2	1:4u:84:HIS:CE1	3.08	0.42
1:57:229:ARG:HG2	1:57:230:VAL:HG23	2.02	0.42
1:5K:70:LYS:HA	1:5K:70:LYS:HD2	1.86	0.42
1:5R:178:SER:O	1:5R:181:VAL:HB	2.20	0.42
1:66:63:GLN:HA	1:66:66:MET:HB3	2.01	0.42
1:6K:77:ALA:O	1:6K:101:GLY:HA3	2.20	0.42
1:74:80:TRP:CE2	1:74:84:HIS:CE1	3.07	0.42
1:74:80:TRP:CZ2	1:74:84:HIS:CE1	3.07	0.42
1:7p:29:GLU:OE1	1:7q:229:ARG:NH1	2.51	0.42
1:89:189:LEU:HA	1:8i:151:LEU:HD13	2.02	0.42
1:8s:165:VAL:HG22	1:8s:190:LEU:HD13	2.01	0.42
1:8z:150:ILE:HG21	1:8z:185:MET:HE2	2.02	0.42
1:9o:169:TYR:HA	1:9o:172:LEU:HD12	2.02	0.42
1:9A:121:ASN:HA	1:9A:122:PRO:C	2.45	0.42
1:9V:7:GLN:HG2	1:9V:9:GLN:H	1.85	0.42
1:be:21:ASN:HD21	1:bf:26:VAL:CG2	2.33	0.42
1:bk:104:ILE:CD1	1:bk:126:VAL:HG12	2.50	0.42
1:bs:181:VAL:HG21	1:bA:184:TRP:HB2	2.01	0.42
1:bB:24:VAL:HG21	1:bB:58:THR:HG22	2.01	0.42
1:bR:135:ILE:HG22	1:bR:139:ASN:HD22	1.85	0.42
1:dj:154:ARG:HA	1:dj:193:ASN:HB3	2.02	0.42
1:dY:1:PRO:N	1:dY:13:GLN:O	2.51	0.42
1:fz:1:PRO:HA	1:fz:47:ALA:HA	2.01	0.42
1:fE:77:ALA:HA	1:fE:133:TRP:CH2	2.55	0.42
1:fO:150:ILE:HD11	1:fO:189:LEU:CD2	2.49	0.42
1:s:185:MET:HA	1:s:189:LEU:HB3	2.02	0.42
1:y:128:GLU:HA	1:y:131:LYS:HE3	2.00	0.42
1:N:226:HIS:CD2	1:N:228:ALA:H	2.38	0.42
1:ge:155:GLN:HB2	1:ge:164:TYR:CD1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1G:12:HIS:HE1	1:1G:51:ASP:OD2	2.03	0.42
1:1K:196:PRO:HA	1:1K:199:LYS:HB2	2.02	0.42
1:1P:150:ILE:HG12	1:1P:189:LEU:HD21	2.01	0.42
1:1R:202:LEU:HD22	1:1R:214:MET:HE1	2.01	0.42
1:iL:143:ARG:HE	1:iL:175:GLU:CD	2.27	0.42
1:iS:89:GLY:H	1:iS:98:GLU:CD	2.27	0.42
1:j7:168:PHE:CD1	1:j7:168:PHE:C	2.97	0.42
1:jz:63:GLN:HG3	1:jA:166:ASP:HA	2.02	0.42
1:jG:12:HIS:CG	1:jG:13:GLN:N	2.87	0.42
1:jN:117:TRP:CE3	1:jN:126:VAL:HG11	2.55	0.42
1:kd:86:VAL:HG21	1:kd:100:ARG:HD2	2.02	0.42
1:kL:63:GLN:HA	1:kL:66:MET:HB3	2.00	0.42
1:kL:181:VAL:HA	1:bC:181:VAL:HG22	2.01	0.42
1:kY:83:LEU:HD23	1:kY:83:LEU:HA	1.82	0.42
1:l8:229:ARG:HH12	1:lh:197:ASP:CG	2.27	0.42
1:lL:69:LEU:HD11	1:lL:134:ILE:HG23	2.02	0.42
1:lM:63:GLN:HB3	1:lN:169:TYR:HB3	2.02	0.42
1:2c:39:MET:HB3	1:2c:39:MET:HE3	1.82	0.42
1:2M:100:ARG:O	1:2M:103:ASP:HB2	2.19	0.42
1:33:40:PHE:CZ	1:33:134:ILE:HG21	2.55	0.42
1:3N:7:GLN:H	1:3N:10:MET:HE2	1.84	0.42
1:42:32:PHE:CD1	1:42:141:ILE:HG21	2.55	0.42
1:4y:143:ARG:HH21	1:4z:231:LEU:C	2.27	0.42
1:4K:126:VAL:HA	1:4K:129:ILE:HD12	2.02	0.42
1:56:151:LEU:HD22	1:56:151:LEU:H	1.85	0.42
1:5z:15:ILE:HG12	1:5z:20:LEU:HD11	2.01	0.42
1:6h:104:ILE:HG21	1:6h:133:TRP:CH2	2.55	0.42
1:6Q:30:LYS:HA	1:6Q:30:LYS:HD3	1.83	0.42
1:7f:219:GLN:HA	1:7f:226:HIS:HE1	1.85	0.42
1:7I:23:TRP:HB2	1:7I:43:LEU:HD22	2.00	0.42
1:8e:37:ILE:HG12	1:8e:135:ILE:HG23	2.01	0.42
1:8l:97:ARG:HE	1:8l:113:GLU:CD	2.28	0.42
1:8u:96:MET:HG2	1:8u:120:HIS:CE1	2.55	0.42
1:8v:104:ILE:HD13	1:8v:129:ILE:HG21	2.01	0.42
1:93:161:PHE:O	1:93:165:VAL:HG23	2.20	0.42
1:94:229:ARG:HE	1:94:231:LEU:C	2.28	0.42
1:96:37:ILE:H	1:96:37:ILE:HD12	1.84	0.42
1:96:117:TRP:HB3	1:96:124:ILE:HB	2.01	0.42
1:9y:15:ILE:HD13	1:9y:51:ASP:HB3	2.02	0.42
1:aj:69:LEU:HD11	1:aj:134:ILE:HA	2.00	0.42
1:an:148:THR:HA	1:an:171:THR:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:aW:20:LEU:HD11	1:aW:58:THR:HG21	2.01	0.42
1:b8:69:LEU:HD23	1:b8:69:LEU:C	2.44	0.42
1:bp:141:ILE:HD13	1:bp:141:ILE:HG21	1.86	0.42
1:18:69:LEU:HD13	1:18:137:GLY:HA3	2.01	0.42
1:bx:168:PHE:CE2	1:bx:172:LEU:HD11	2.55	0.42
1:c4:127:GLY:O	1:c4:131:LYS:HB2	2.20	0.42
1:cY:221:VAL:HG23	1:cY:226:HIS:CE1	2.54	0.42
1:dj:153:ILE:HG21	1:dj:168:PHE:HA	2.02	0.42
1:dz:97:ARG:HH21	1:dz:113:GLU:CD	2.27	0.42
1:dz:162:ARG:CB	1:dz:226:HIS:CE1	3.03	0.42
1:eo:68:MET:HE3	1:ep:212:GLU:HA	2.02	0.42
1:eC:56:LEU:HD23	1:eC:56:LEU:HA	1.86	0.42
1:eI:3:VAL:HG23	1:eI:4:GLN:HG2	2.01	0.42
1:eJ:10:MET:HE2	1:eJ:10:MET:HB3	1.94	0.42
1:eT:133:TRP:CD1	1:eT:133:TRP:N	2.86	0.42
1:fk:87:HIS:CD2	1:fk:98:GLU:H	2.38	0.42
1:fq:25:LYS:HA	1:fq:25:LYS:HE3	2.02	0.42
1:fB:25:LYS:HA	1:fB:25:LYS:HE3	2.02	0.42
1:fC:97:ARG:HH22	1:fC:103:ASP:CG	2.27	0.42
1:1z:104:ILE:HG12	1:1z:126:VAL:HG23	2.01	0.42
1:g:231:LEU:HA	1:g:231:LEU:HD12	1.81	0.42
1:D:4:GLN:HB2	1:D:11:VAL:HA	2.00	0.42
1:gx:80:TRP:CH2	1:gx:129:ILE:HD13	2.55	0.42
1:gO:80:TRP:CH2	1:gO:129:ILE:HD13	2.55	0.42
1:hg:168:PHE:CZ	1:hg:190:LEU:HB2	2.55	0.42
1:hh:27:VAL:O	1:hh:31:ALA:HB2	2.19	0.42
1:hy:151:LEU:HD22	1:7m:184:TRP:CH2	2.55	0.42
1:1O:66:MET:HE2	1:1O:66:MET:HA	2.01	0.42
1:iO:73:ILE:HD11	1:iO:134:ILE:HA	2.02	0.42
1:jl:181:VAL:HG12	1:jl:185:MET:HE3	2.01	0.42
1:jr:20:LEU:HD23	1:jr:20:LEU:HA	1.95	0.42
1:jr:200:THR:HA	1:jr:203:LYS:HG2	2.01	0.42
1:k0:37:ILE:HD12	1:k0:37:ILE:N	2.34	0.42
1:kb:150:ILE:HG21	1:kb:185:MET:CE	2.49	0.42
1:kz:5:ASN:CG	1:kA:5:ASN:HD22	2.28	0.42
1:kE:211:LEU:HB3	1:kE:215:MET:HE2	2.01	0.42
1:kR:186:THR:CG2	1:kR:214:MET:HE1	2.50	0.42
1:l3:198:CYS:HB2	1:l3:221:VAL:HG11	2.01	0.42
1:lD:145:TYR:CE2	1:lE:215:MET:HE2	2.55	0.42
1:2c:181:VAL:HG12	1:2c:185:MET:HE2	2.01	0.42
1:2r:172:LEU:HA	1:2r:172:LEU:HD23	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2z:100:ARG:O	1:2z:103:ASP:HB2	2.19	0.42
1:3O:16:SER:O	1:3O:19:THR:HB	2.20	0.42
1:4i:198:CYS:HA	1:4i:201:ILE:HG22	2.01	0.42
1:4k:164:TYR:HA	1:4k:167:ARG:HG2	2.01	0.42
1:4v:138:LEU:HD23	1:4v:141:ILE:HD12	2.02	0.42
1:4B:181:VAL:HA	1:6M:181:VAL:HG22	2.02	0.42
1:56:146:SER:OG	1:56:174:ALA:HB1	2.19	0.42
1:62:27:VAL:HG21	1:62:59:VAL:HG11	2.02	0.42
1:6c:231:LEU:C	1:w:229:ARG:HH11	2.26	0.42
1:6K:91:ILE:HG13	1:6K:92:GLU:H	1.84	0.42
1:6Q:156:GLY:H	1:6Q:159:GLU:CD	2.27	0.42
1:7S:91:ILE:HD12	1:7S:92:GLU:H	1.84	0.42
1:9d:83:LEU:HG	1:9d:84:HIS:CE1	2.54	0.42
1:9r:37:ILE:HB	1:9r:38:PRO:HD3	2.02	0.42
1:9x:80:TRP:CZ2	1:9x:84:HIS:CE1	3.08	0.42
1:9N:81:ASP:CG	1:9N:100:ARG:HH21	2.28	0.42
1:9V:104:ILE:HD13	1:9V:104:ILE:HA	1.81	0.42
1:ap:115:ILE:HG21	1:aq:7:GLN:CD	2.45	0.42
1:aG:73:ILE:HD11	1:aG:134:ILE:HA	2.02	0.42
1:aL:148:THR:HG22	1:aL:152:ASP:HB2	2.01	0.42
1:aS:4:GLN:C	1:aS:5:ASN:HD22	2.28	0.42
1:bm:2:ILE:HD13	1:bm:2:ILE:HG21	1.83	0.42
1:bv:120:HIS:CG	1:bv:121:ASN:H	2.38	0.42
1:ce:80:TRP:CZ2	1:ce:84:HIS:CE1	3.07	0.42
1:cM:97:ARG:HH22	1:cM:103:ASP:CG	2.27	0.42
1:dt:72:THR:HG21	1:dt:137:GLY:HA2	2.02	0.42
1:dt:195:ASN:HB2	1:dt:226:HIS:CD2	2.55	0.42
1:dA:68:MET:HE1	1:dA:144:MET:HE2	2.02	0.42
1:ep:161:PHE:CE2	1:ep:194:ALA:HA	2.55	0.42
1:eI:229:ARG:H	1:eI:229:ARG:NE	2.17	0.42
1:eZ:100:ARG:O	1:eZ:103:ASP:HB2	2.20	0.42
1:fM:150:ILE:O	1:fM:153:ILE:HG22	2.20	0.42
1:fS:201:ILE:HG21	1:fS:218:CYS:H	1.85	0.42
1:fT:205:LEU:HA	1:fT:205:LEU:HD23	1.84	0.42
1:3:124:ILE:HD12	1:3:124:ILE:N	2.35	0.42
1:9:97:ARG:HH22	1:9:103:ASP:CG	2.27	0.42
1:gl:104:ILE:HA	1:gl:126:VAL:HG13	2.01	0.42
1:gn:154:ARG:H	1:gn:154:ARG:HD3	1.85	0.42
1:gw:185:MET:HA	1:gw:189:LEU:HB3	2.01	0.42
1:h1:120:HIS:CD2	1:h1:122:PRO:O	2.73	0.42
1:hf:155:GLN:HA	1:hf:164:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1I:211:LEU:HD12	1:1I:211:LEU:HA	1.88	0.42
1:hx:153:ILE:HD13	1:hx:168:PHE:HA	2.02	0.42
1:ia:80:TRP:CE2	1:ia:84:HIS:CE1	3.07	0.42
1:iS:165:VAL:HG12	1:iX:64:ALA:HA	2.01	0.42
1:iW:80:TRP:CE2	1:iW:84:HIS:CE1	3.07	0.42
1:1T:28:GLU:OE1	1:1U:30:LYS:NZ	2.50	0.42
1:jk:159:GLU:HA	1:jk:160:PRO:HD3	1.91	0.42
1:jB:170:LYS:O	1:jB:173:ARG:HG2	2.20	0.42
1:jC:120:HIS:CG	1:jC:121:ASN:H	2.38	0.42
1:jY:159:GLU:HA	1:jY:160:PRO:HD2	1.94	0.42
1:jY:231:LEU:HD21	1:jZ:230:VAL:HA	2.02	0.42
1:k5:40:PHE:CZ	1:k5:134:ILE:HG21	2.55	0.42
1:ko:161:PHE:CE2	1:ko:202:LEU:HD11	2.54	0.42
1:kR:83:LEU:HD23	1:2p:86:VAL:HG21	2.01	0.42
1:l2:52:LEU:HD11	1:l2:131:LYS:HG3	2.02	0.42
1:lg:153:ILE:CG2	1:lg:167:ARG:HE	2.32	0.42
1:ly:188:THR:HG22	1:ly:189:LEU:N	2.34	0.42
1:lE:64:ALA:HB1	1:lF:215:MET:HE1	2.02	0.42
1:2c:97:ARG:HH22	1:2c:103:ASP:CG	2.28	0.42
1:2r:134:ILE:HD13	1:2r:134:ILE:HG21	1.86	0.42
1:2N:76:GLU:HB3	1:2N:133:TRP:CD2	2.55	0.42
1:3b:20:LEU:HD13	1:3b:58:THR:HG21	2.02	0.42
1:3j:40:PHE:CZ	1:3j:134:ILE:CG2	3.03	0.42
1:3t:132:ARG:NH1	1:3t:135:ILE:HG21	2.35	0.42
1:3L:160:PRO:C	1:3L:162:ARG:H	2.28	0.42
1:3U:189:LEU:HD21	1:43:151:LEU:HD11	2.02	0.42
1:41:167:ARG:HA	1:41:170:LYS:HE2	2.02	0.42
1:5I:97:ARG:HH12	1:5I:103:ASP:CG	2.26	0.42
1:5W:16:SER:HA	1:5W:17:PRO:HD3	1.94	0.42
1:6u:190:LEU:HD23	1:6u:190:LEU:C	2.45	0.42
1:6v:128:GLU:HA	1:6v:131:LYS:HE2	2.02	0.42
1:6Y:124:ILE:HG22	1:6Y:126:VAL:HG13	2.02	0.42
1:77:12:HIS:CD2	1:77:115:ILE:HD11	2.55	0.42
1:7L:20:LEU:O	1:7L:24:VAL:HG23	2.19	0.42
1:7R:80:TRP:CZ2	1:7R:129:ILE:HD13	2.55	0.42
1:85:97:ARG:HH22	1:85:103:ASP:CG	2.27	0.42
1:9e:104:ILE:HG21	1:9e:129:ILE:HG22	2.02	0.42
1:9l:150:ILE:HD11	1:9l:168:PHE:CE1	2.55	0.42
1:9J:161:PHE:CZ	1:9J:202:LEU:HD21	2.55	0.42
1:Y:104:ILE:HG23	1:Y:126:VAL:O	2.19	0.42
1:9T:140:LYS:HD2	1:9T:140:LYS:HA	1.95	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a5:56:LEU:HD22	1:a5:69:LEU:HD21	2.02	0.42
1:a8:1:PRO:HB3	1:a8:47:ALA:HA	2.02	0.42
1:aH:138:LEU:HD23	1:aH:141:ILE:HD12	2.02	0.42
1:bb:44:SER:O	1:bb:47:ALA:HB3	2.20	0.42
1:bf:178:SER:O	1:bf:181:VAL:HB	2.20	0.42
1:bY:144:MET:HE2	1:bY:144:MET:HA	2.01	0.42
1:c5:168:PHE:CZ	1:c5:172:LEU:HD11	2.55	0.42
1:cb:26:VAL:O	1:cb:30:LYS:HB2	2.20	0.42
1:cw:146:SER:HA	1:cw:147:PRO:HD3	1.90	0.42
1:cB:37:ILE:HD11	1:cB:138:LEU:HB2	2.02	0.42
1:d2:170:LYS:HZ3	1:d3:231:LEU:C	2.28	0.42
1:dA:80:TRP:CZ2	1:dA:84:HIS:CE1	3.07	0.42
1:dR:65:ALA:HB1	1:dR:141:ILE:HG23	2.01	0.42
1:ez:87:HIS:CG	1:ez:91:ILE:HD13	2.55	0.42
1:eT:117:TRP:CD1	1:eT:124:ILE:HD12	2.55	0.42
1:fa:201:ILE:HD13	1:fa:201:ILE:HA	1.91	0.42
1:fk:45:GLU:OE1	1:fk:45:GLU:HA	2.18	0.42
1:fk:91:ILE:HG21	1:fk:96:MET:HA	2.01	0.42
1:fn:32:PHE:CZ	1:fn:62:HIS:CE1	3.07	0.42
1:ft:138:LEU:HA	1:ft:141:ILE:HD12	2.01	0.42
1:fx:40:PHE:CZ	1:fx:134:ILE:HG21	2.54	0.42
1:g0:97:ARG:HH22	1:g0:103:ASP:CG	2.27	0.42
1:g6:118:MET:HG3	1:g6:126:VAL:HG22	2.02	0.42
1:y:143:ARG:HH22	1:y:175:GLU:CD	2.27	0.42
1:go:37:ILE:HD12	1:go:37:ILE:H	1.85	0.42
1:gE:76:GLU:HB3	1:gE:133:TRP:CE2	2.55	0.42
1:hf:83:LEU:HD23	1:hf:84:HIS:CE1	2.55	0.42
1:hi:68:MET:HE3	1:hi:140:LYS:HG3	2.01	0.42
1:hl:124:ILE:HD12	1:hl:124:ILE:N	2.34	0.42
1:hu:96:MET:HB2	1:hu:120:HIS:CE1	2.55	0.42
1:hR:69:LEU:HB2	1:hR:141:ILE:HD11	2.01	0.42
1:ia:20:LEU:O	1:ia:24:VAL:HG23	2.20	0.42
1:iS:97:ARG:HH22	1:iS:103:ASP:CG	2.27	0.42
1:1T:44:SER:HB2	1:1T:52:LEU:HD21	2.02	0.42
1:jj:138:LEU:HD23	1:jj:141:ILE:HD11	2.02	0.42
1:k2:152:ASP:CG	1:k3:229:ARG:HH22	2.28	0.42
1:kX:176:GLN:OE1	1:kX:176:GLN:HA	2.20	0.42
1:26:98:GLU:HA	1:26:99:PRO:HD3	1.87	0.42
1:ln:226:HIS:CG	1:ln:227:LYS:H	2.38	0.42
1:lM:151:LEU:HA	1:lM:151:LEU:HD23	1.83	0.42
1:2f:19:THR:HG23	1:2f:43:LEU:HD22	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2p:76:GLU:HG3	1:2p:136:LEU:HD12	2.02	0.42
1:2q:14:ALA:HB1	1:2r:45:GLU:HB3	2.00	0.42
1:2Q:201:ILE:HG21	1:2Q:218:CYS:HA	2.01	0.42
1:2Z:80:TRP:CD1	1:2Z:80:TRP:C	2.98	0.42
1:36:121:ASN:HA	1:36:122:PRO:C	2.44	0.42
1:3p:153:ILE:HG12	1:3p:168:PHE:HB2	2.02	0.42
1:3s:73:ILE:HD11	1:3s:134:ILE:CG1	2.50	0.42
1:3U:159:GLU:CD	1:3U:167:ARG:HH22	2.28	0.42
1:5d:175:GLU:HG3	1:5d:177:ALA:H	1.84	0.42
1:6s:43:LEU:HD21	1:6s:55:MET:HG2	2.01	0.42
1:6u:22:ALA:O	1:6u:26:VAL:HG23	2.19	0.42
1:6B:163:ASP:CG	1:6B:167:ARG:HH21	2.27	0.42
1:7B:161:PHE:O	1:7B:165:VAL:HG23	2.20	0.42
1:7Q:24:VAL:HA	1:7Q:27:VAL:HG22	2.01	0.42
1:87:37:ILE:H	1:87:37:ILE:HD12	1.85	0.42
1:8e:35:GLU:HG3	1:8e:173:ARG:HH22	1.85	0.42
1:8T:219:GLN:CD	1:8T:219:GLN:H	2.28	0.42
1:9F:2:ILE:HD12	1:9F:12:HIS:CD2	2.55	0.42
1:9M:96:MET:HE2	1:9M:120:HIS:CE1	2.55	0.42
1:9M:97:ARG:HH21	1:9M:113:GLU:CD	2.28	0.42
1:9T:216:THR:O	1:9T:216:THR:HG22	2.20	0.42
1:9Z:89:GLY:C	1:9Z:91:ILE:H	2.27	0.42
1:al:37:ILE:HB	1:al:38:PRO:HD3	2.02	0.42
1:b6:91:ILE:HD12	1:b6:91:ILE:HA	1.94	0.42
1:16:20:LEU:CD2	1:17:39:MET:HE1	2.49	0.42
1:ba:1:PRO:H3	1:ba:51:ASP:CG	2.28	0.42
1:bA:116:GLY:O	1:bA:120:HIS:CD2	2.73	0.42
1:bE:72:THR:HG21	1:bE:137:GLY:HA2	2.02	0.42
1:bL:80:TRP:CZ2	1:bL:84:HIS:CE1	3.08	0.42
1:bM:31:ALA:HA	1:bM:36:VAL:HB	2.01	0.42
1:c2:168:PHE:CZ	1:c2:190:LEU:HB2	2.54	0.42
1:ct:83:LEU:HD12	1:ct:83:LEU:HA	1.88	0.42
1:cG:37:ILE:HB	1:cG:38:PRO:HD3	2.02	0.42
1:cN:230:VAL:H	1:cN:230:VAL:HG13	1.66	0.42
1:dv:68:MET:HE1	1:dw:212:GLU:HG2	2.01	0.42
1:dB:40:PHE:CZ	1:dB:134:ILE:HG21	2.55	0.42
1:en:52:LEU:O	1:en:55:MET:HB2	2.20	0.42
1:eq:34:PRO:O	1:eq:38:PRO:HD2	2.20	0.42
1:eF:48:THR:HB	1:eF:49:PRO:HD2	2.02	0.42
1:1t:65:ALA:HB1	1:1t:141:ILE:HD13	2.02	0.42
1:f1:117:TRP:HB3	1:f1:124:ILE:HB	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f6:136:LEU:HD23	1:f6:136:LEU:HA	1.84	0.42
1:fU:226:HIS:HB2	1:fU:229:ARG:O	2.19	0.42
1:l:68:MET:HB2	1:l:141:ILE:HD11	2.01	0.42
1:9:30:LYS:CB	1:9:33:SER:HB2	2.49	0.42
1:1F:172:LEU:HD13	1:1F:185:MET:HE3	2.01	0.41
1:1F:184:TRP:CG	1:ki:181:VAL:HG11	2.56	0.41
1:gS:80:TRP:CE2	1:gS:84:HIS:CE1	3.08	0.41
1:h3:153:ILE:HG22	1:h3:155:GLN:H	1.85	0.41
1:h5:4:GLN:H	1:h5:4:GLN:CD	2.27	0.41
1:h9:141:ILE:HD13	1:h9:141:ILE:HA	1.95	0.41
1:hy:18:ARG:N	1:hy:18:ARG:HD2	2.35	0.41
1:1M:194:ALA:HB3	1:1M:199:LYS:HB2	2.01	0.41
1:jf:161:PHE:CE1	1:jf:194:ALA:HB2	2.55	0.41
1:jp:80:TRP:CD2	1:jp:84:HIS:CE1	3.07	0.41
1:jF:27:VAL:HG21	1:jF:59:VAL:HG21	2.00	0.41
1:jF:64:ALA:HB1	1:jG:215:MET:HE3	2.01	0.41
1:ka:98:GLU:HA	1:ka:99:PRO:HD3	1.91	0.41
1:kn:125:PRO:HG2	1:kn:129:ILE:HD11	2.02	0.41
1:kr:195:ASN:HA	1:kr:196:PRO:HD3	1.82	0.41
1:ks:81:ASP:CG	1:ks:100:ARG:HH21	2.27	0.41
1:kB:162:ARG:CZ	1:kB:215:MET:HB3	2.50	0.41
1:kY:4:GLN:O	1:kY:119:THR:HG22	2.19	0.41
1:lI:20:LEU:HD23	1:lI:20:LEU:HA	1.89	0.41
1:lK:80:TRP:CZ2	1:lK:84:HIS:CE1	3.07	0.41
1:lL:69:LEU:HD23	1:lL:69:LEU:C	2.45	0.41
1:2m:231:LEU:HD12	1:2q:200:THR:HG22	2.02	0.41
1:36:150:ILE:O	1:36:153:ILE:HG22	2.20	0.41
1:3h:115:ILE:O	1:3h:115:ILE:HG22	2.19	0.41
1:3p:23:TRP:HA	1:3p:26:VAL:HG12	2.02	0.41
1:4b:153:ILE:HD13	1:4b:168:PHE:CD2	2.54	0.41
1:4p:68:MET:HE2	1:4p:144:MET:SD	2.60	0.41
1:4J:97:ARG:HH22	1:4J:103:ASP:CG	2.28	0.41
1:4S:159:GLU:HA	1:4S:160:PRO:HD3	1.89	0.41
1:5z:27:VAL:HG11	1:5z:59:VAL:HG11	2.01	0.41
1:5V:11:VAL:HG22	1:5V:12:HIS:H	1.85	0.41
1:6k:5:ASN:HD21	1:6k:11:VAL:HG22	1.85	0.41
1:6m:15:ILE:HD12	1:6m:51:ASP:HB3	2.02	0.41
1:6V:180:GLU:CD	1:6V:183:ASN:HD22	2.28	0.41
1:77:12:HIS:CD2	1:77:115:ILE:HG12	2.55	0.41
1:7d:161:PHE:CE1	1:7d:202:LEU:HD11	2.55	0.41
1:7K:120:HIS:CG	1:7K:121:ASN:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8E:40:PHE:CE2	1:8E:134:ILE:HG21	2.55	0.41
1:a6:205:LEU:HD23	1:a6:205:LEU:HA	1.89	0.41
1:ad:218:CYS:HA	1:ad:221:VAL:CG1	2.50	0.41
1:ae:10:MET:HA	1:ae:119:THR:HG21	2.02	0.41
1:ak:204:ALA:HA	1:by:216:THR:HG21	2.02	0.41
1:aA:81:ASP:CG	1:aA:100:ARG:HH21	2.27	0.41
1:bI:10:MET:HE2	1:bI:115:ILE:HG23	2.01	0.41
1:c4:12:HIS:HB2	1:c4:115:ILE:CD1	2.49	0.41
1:cq:33:SER:O	1:cq:36:VAL:HG22	2.20	0.41
1:1n:80:TRP:CZ2	1:1n:84:HIS:CE1	3.08	0.41
1:ew:97:ARG:HH22	1:ew:103:ASP:CG	2.28	0.41
1:eK:83:LEU:HD23	1:eK:84:HIS:CE1	2.55	0.41
1:eM:120:HIS:CG	1:eM:121:ASN:N	2.88	0.41
1:f1:144:MET:HE1	1:f2:215:MET:HB3	2.02	0.41
1:fW:146:SER:N	1:fW:147:PRO:CD	2.83	0.41
1:P:168:PHE:CE2	1:P:172:LEU:HD11	2.54	0.41
1:gT:11:VAL:HG11	1:gU:4:GLN:HE21	1.86	0.41
1:1I:161:PHE:CZ	1:1I:202:LEU:HD11	2.54	0.41
1:hs:143:ARG:HH12	1:hs:175:GLU:CD	2.28	0.41
1:hL:83:LEU:CD2	1:hL:84:HIS:CE1	3.03	0.41
1:hZ:127:GLY:O	1:hZ:131:LYS:HB2	2.20	0.41
1:im:16:SER:HA	1:im:17:PRO:HD3	1.88	0.41
1:ir:4:GLN:HA	1:ir:9:GLN:O	2.20	0.41
1:1U:48:THR:HB	1:1U:49:PRO:HD2	2.01	0.41
1:jx:80:TRP:CE2	1:jx:104:ILE:CD1	3.03	0.41
1:k5:26:VAL:CG1	1:k5:36:VAL:HG12	2.50	0.41
1:kl:10:MET:HE1	1:kl:118:MET:HB3	2.01	0.41
1:kn:70:LYS:HA	1:kn:73:ILE:HG12	2.02	0.41
1:kP:143:ARG:HH21	1:kQ:212:GLU:CD	2.28	0.41
1:l3:169:TYR:OH	1:l3:186:THR:HG23	2.20	0.41
1:lk:139:ASN:O	1:lk:143:ARG:HB2	2.19	0.41
1:2A:104:ILE:HA	1:2A:126:VAL:HG23	2.01	0.41
1:3B:161:PHE:O	1:3B:162:ARG:HD3	2.20	0.41
1:3K:224:PRO:HG2	1:3K:226:HIS:CD2	2.56	0.41
1:3Z:37:ILE:HB	1:3Z:38:PRO:HD3	2.02	0.41
1:4A:96:MET:HE1	1:4A:113:GLU:O	2.21	0.41
1:4B:185:MET:HG2	1:4B:189:LEU:HD22	2.02	0.41
1:6C:168:PHE:CZ	1:6C:172:LEU:HD11	2.55	0.41
1:6N:155:GLN:HG2	1:6N:164:TYR:CG	2.55	0.41
1:7t:192:GLN:HA	1:7t:199:LYS:HE2	2.02	0.41
1:7v:165:VAL:HG22	1:7v:190:LEU:HD11	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7L:196:PRO:HA	1:7L:199:LYS:HB3	2.02	0.41
1:85:19:THR:HG23	1:85:43:LEU:HD22	2.02	0.41
1:8K:97:ARG:NH1	1:8K:103:ASP:OD2	2.47	0.41
1:8T:230:VAL:O	1:8T:230:VAL:HG13	2.20	0.41
1:9j:172:LEU:HD22	1:9j:177:ALA:HB2	2.02	0.41
1:9m:209:ALA:HB1	1:9m:214:MET:HG2	2.02	0.41
1:Z:186:THR:HG23	1:Z:190:LEU:HD22	2.02	0.41
1:a9:95:GLN:HB2	1:a9:120:HIS:CE1	2.55	0.41
1:10:23:TRP:CZ3	1:10:40:PHE:HB2	2.55	0.41
1:ap:161:PHE:O	1:ap:165:VAL:HG23	2.20	0.41
1:aN:138:LEU:HD23	1:aN:138:LEU:HA	1.95	0.41
1:b0:25:LYS:HA	1:b0:25:LYS:HD3	1.85	0.41
1:b1:186:THR:O	1:b1:191:VAL:HG12	2.21	0.41
1:bc:68:MET:HE1	1:bc:144:MET:HG3	2.02	0.41
1:bp:12:HIS:CG	1:bp:111:LEU:HD21	2.55	0.41
1:bJ:205:LEU:HB3	1:bJ:209:ALA:HB2	2.02	0.41
1:cj:150:ILE:HG23	1:cj:185:MET:HE2	2.02	0.41
1:cy:80:TRP:CE2	1:cy:104:ILE:HD11	2.55	0.41
1:d6:205:LEU:HD22	1:d6:209:ALA:HB1	2.01	0.41
1:d9:83:LEU:HD23	1:d9:84:HIS:CE1	2.55	0.41
1:et:97:ARG:HH21	1:et:113:GLU:CD	2.28	0.41
1:eT:96:MET:HB2	1:eT:120:HIS:CD2	2.55	0.41
1:fj:117:TRP:CE3	1:fj:126:VAL:HG11	2.56	0.41
1:fB:211:LEU:HD11	1:fB:215:MET:HE2	2.02	0.41
1:g1:165:VAL:HG22	1:g1:190:LEU:HD11	2.02	0.41
1:g7:68:MET:HE1	1:g7:144:MET:HG3	2.02	0.41
1:C:154:ARG:HB3	1:C:193:ASN:HB3	2.02	0.41
1:V:216:THR:OG1	1:W:144:MET:HE1	2.20	0.41
1:gt:24:VAL:HG13	1:gt:59:VAL:HA	2.02	0.41
1:gx:105:ALA:HA	1:gx:130:TYR:CZ	2.55	0.41
1:gX:81:ASP:CG	1:gX:100:ARG:HH21	2.28	0.41
1:h1:120:HIS:CG	1:h1:121:ASN:N	2.88	0.41
1:ik:6:LEU:H	1:ik:6:LEU:CD2	2.32	0.41
1:il:28:GLU:OE1	1:im:30:LYS:NZ	2.53	0.41
1:il:159:GLU:HA	1:il:160:PRO:HD3	1.90	0.41
1:ip:4:GLN:HB2	1:ip:10:MET:HA	2.02	0.41
1:ix:198:CYS:HA	1:ix:201:ILE:HD12	2.03	0.41
1:iJ:211:LEU:HA	1:iJ:214:MET:HB2	2.02	0.41
1:iO:207:PRO:HD3	1:iS:216:THR:HG21	2.03	0.41
1:iP:37:ILE:H	1:iP:37:ILE:HD12	1.85	0.41
1:iT:130:TYR:O	1:iT:134:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:ju:40:PHE:CZ	1:ju:134:ILE:HG21	2.55	0.41
1:jQ:140:LYS:HZ2	1:jR:212:GLU:CD	2.28	0.41
1:k0:97:ARG:HH22	1:k0:103:ASP:CG	2.29	0.41
1:k1:164:TYR:CE2	1:k1:190:LEU:HD12	2.55	0.41
1:k9:205:LEU:HD11	1:k9:213:GLU:HB3	2.02	0.41
1:kk:154:ARG:HA	1:kk:193:ASN:HB3	2.02	0.41
1:2f:47:ALA:HB3	1:2f:52:LEU:HD21	2.01	0.41
1:2g:211:LEU:HD11	1:2g:215:MET:HE3	2.01	0.41
1:2j:97:ARG:HH21	1:2j:113:GLU:CD	2.27	0.41
1:2J:39:MET:O	1:2J:43:LEU:HD12	2.21	0.41
1:2S:129:ILE:HG22	1:2S:133:TRP:NE1	2.35	0.41
1:3H:97:ARG:HH21	1:3H:113:GLU:CD	2.28	0.41
1:4j:120:HIS:CG	1:4j:121:ASN:N	2.88	0.41
1:5b:34:PRO:HG3	1:5b:174:ALA:HB2	2.02	0.41
1:5b:151:LEU:HD21	1:7s:189:LEU:HD13	2.02	0.41
1:6s:122:PRO:HA	1:6s:123:PRO:HD3	1.92	0.41
1:8f:58:THR:HA	1:8g:38:PRO:HB2	2.01	0.41
1:8Z:97:ARG:HE	1:8Z:113:GLU:CD	2.28	0.41
1:92:172:LEU:HD11	1:92:182:LYS:HG2	2.02	0.41
1:9q:164:TYR:CE2	1:9q:190:LEU:HD12	2.56	0.41
1:aw:23:TRP:HB2	1:aw:43:LEU:HD13	2.01	0.41
1:aH:161:PHE:O	1:aH:165:VAL:HG23	2.20	0.41
1:aO:84:HIS:CD2	1:aO:86:VAL:HG23	2.56	0.41
1:bn:168:PHE:CD2	1:bn:190:LEU:HD13	2.55	0.41
1:bo:150:ILE:O	1:bo:153:ILE:HG22	2.20	0.41
1:bw:104:ILE:HG12	1:bw:126:VAL:HG12	2.01	0.41
1:c6:1:PRO:HA	1:c6:46:GLY:O	2.20	0.41
1:cs:67:GLN:HG3	1:ct:169:TYR:CZ	2.55	0.41
1:cC:48:THR:HA	1:cC:118:MET:HE1	2.01	0.41
1:cR:104:ILE:HD12	1:cR:126:VAL:HG12	2.02	0.41
1:dd:15:ILE:HD13	1:dd:15:ILE:HG21	1.90	0.41
1:dd:113:GLU:HB3	1:dd:117:TRP:CZ2	2.55	0.41
1:dl:164:TYR:CE2	1:dl:169:TYR:CE1	3.08	0.41
1:dT:102:SER:OG	1:dT:108:THR:HG23	2.20	0.41
1:fm:87:HIS:CE1	1:fm:89:GLY:HA2	2.56	0.41
1:fE:209:ALA:O	1:fE:214:MET:HE2	2.20	0.41
1:fO:177:ALA:HB2	1:fX:184:TRP:NE1	2.35	0.41
1:fY:154:ARG:HA	1:fY:193:ASN:HB3	2.01	0.41
1:g2:73:ILE:HD11	1:g2:134:ILE:HG12	2.02	0.41
1:t:86:VAL:HB	1:t:100:ARG:HG2	2.02	0.41
1:t:161:PHE:CZ	1:t:165:VAL:HG21	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:150:ILE:HD12	1:W:150:ILE:HA	1.92	0.41
1:6:191:VAL:HG13	1:6:202:LEU:HD13	2.01	0.41
1:gb:58:THR:HA	1:gc:38:PRO:HG3	2.02	0.41
1:gz:2:ILE:HG21	1:gz:10:MET:HA	2.01	0.41
1:gG:40:PHE:CE2	1:gG:134:ILE:HG21	2.55	0.41
1:gM:69:LEU:HB2	1:gM:141:ILE:HD11	2.02	0.41
1:gX:100:ARG:HB2	1:gX:103:ASP:OD2	2.20	0.41
1:gY:143:ARG:HH22	1:gY:175:GLU:CD	2.28	0.41
1:h9:202:LEU:HD23	1:h9:202:LEU:HA	1.93	0.41
1:ha:64:ALA:HB1	1:hb:215:MET:HE2	2.02	0.41
1:1I:76:GLU:HB3	1:1I:133:TRP:CD1	2.56	0.41
1:hz:129:ILE:O	1:hz:133:TRP:CD1	2.74	0.41
1:ij:13:GLN:NE2	1:ik:3:VAL:HG11	2.36	0.41
1:ij:168:PHE:CZ	1:ij:172:LEU:HD22	2.55	0.41
1:in:80:TRP:CH2	1:in:84:HIS:CE1	3.08	0.41
1:io:180:GLU:CD	1:io:180:GLU:H	2.28	0.41
1:iR:97:ARG:HH22	1:iR:103:ASP:CG	2.28	0.41
1:ja:62:HIS:CE1	1:jb:231:LEU:HD22	2.55	0.41
1:k7:1:PRO:HA	1:k7:46:GLY:O	2.19	0.41
1:ke:68:MET:HE3	1:ke:68:MET:HB2	1.99	0.41
1:ks:65:ALA:HB1	1:ks:141:ILE:HD13	2.02	0.41
1:kD:99:PRO:HG3	1:kD:124:ILE:HG21	2.01	0.41
1:kP:90:PRO:HA	1:kP:97:ARG:HA	2.01	0.41
1:lm:120:HIS:CG	1:lm:121:ASN:N	2.89	0.41
1:28:10:MET:HB3	1:28:10:MET:HE2	1.91	0.41
1:2p:184:TRP:CH2	1:2p:188:THR:HG21	2.55	0.41
1:2u:69:LEU:C	1:2u:69:LEU:HD23	2.45	0.41
1:2v:32:PHE:CZ	1:2v:62:HIS:CE1	3.07	0.41
1:2E:218:CYS:HB2	1:2E:221:VAL:HG11	2.03	0.41
1:2I:67:GLN:HG2	1:2J:169:TYR:CE2	2.55	0.41
1:2N:40:PHE:CZ	1:2N:134:ILE:HG21	2.56	0.41
1:31:56:LEU:HD23	1:31:66:MET:HE1	2.03	0.41
1:3b:230:VAL:O	1:3b:230:VAL:HG12	2.20	0.41
1:3d:146:SER:HA	1:3d:147:PRO:HD3	1.84	0.41
1:3q:144:MET:HE1	1:3r:212:GLU:HB3	2.02	0.41
1:3D:143:ARG:C	1:3D:143:ARG:HD3	2.45	0.41
1:3N:98:GLU:HA	1:3N:99:PRO:HD2	1.95	0.41
1:3V:80:TRP:CZ2	1:3V:84:HIS:CE1	3.09	0.41
1:4j:2:ILE:CD1	1:4j:118:MET:HE2	2.50	0.41
1:5m:83:LEU:HD23	1:5m:84:HIS:CE1	2.55	0.41
1:6k:97:ARG:HH22	1:6k:103:ASP:CG	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6u:150:ILE:HD13	1:6u:172:LEU:HA	2.02	0.41
1:6N:116:GLY:O	1:6N:120:HIS:CD2	2.74	0.41
1:6R:27:VAL:HG11	1:6R:59:VAL:HG11	2.03	0.41
1:6Y:69:LEU:C	1:6Y:69:LEU:HD23	2.46	0.41
1:7I:159:GLU:CD	1:7I:167:ARG:HH22	2.28	0.41
1:8v:6:LEU:HG	1:8v:7:GLN:N	2.35	0.41
1:8w:161:PHE:CZ	1:8w:202:LEU:HD11	2.56	0.41
1:93:161:PHE:CZ	1:93:202:LEU:HD11	2.55	0.41
1:9h:120:HIS:CG	1:9h:121:ASN:N	2.88	0.41
1:9W:97:ARG:HE	1:9W:113:GLU:CD	2.28	0.41
1:a1:182:LYS:HD2	1:a1:182:LYS:C	2.46	0.41
1:10:150:ILE:HD13	1:10:150:ILE:HG21	1.85	0.41
1:ar:150:ILE:HD12	1:ar:150:ILE:HA	1.92	0.41
1:aR:79:GLU:HA	1:aR:79:GLU:OE2	2.20	0.41
1:bO:24:VAL:HG22	1:bO:59:VAL:HA	2.01	0.41
1:c0:32:PHE:CE1	1:c0:141:ILE:HG21	2.54	0.41
1:cd:168:PHE:CE2	1:cd:172:LEU:HD11	2.56	0.41
1:cp:165:VAL:O	1:cp:169:TYR:CD2	2.73	0.41
1:cy:214:MET:O	1:cy:217:ALA:HB3	2.21	0.41
1:cL:1:PRO:H2	1:cL:12:HIS:CE1	2.38	0.41
1:eo:64:ALA:HB2	1:ep:166:ASP:HA	2.02	0.41
1:et:144:MET:HE2	1:et:144:MET:HB2	1.87	0.41
1:eF:217:ALA:O	1:eF:218:CYS:HB2	2.20	0.41
1:eJ:138:LEU:HA	1:eJ:141:ILE:HG13	2.02	0.41
1:eQ:66:MET:HE3	1:eQ:66:MET:HB3	1.83	0.41
1:0:219:GLN:HB3	1:0:220:GLY:HA2	2.02	0.41
1:M:37:ILE:H	1:M:37:ILE:CD1	2.33	0.41
1:1C:162:ARG:HA	1:1C:165:VAL:HG12	2.03	0.41
1:gl:159:GLU:HA	1:gl:160:PRO:HD3	1.85	0.41
1:1E:37:ILE:HB	1:1E:38:PRO:HD3	2.03	0.41
1:gL:69:LEU:HD23	1:gL:69:LEU:C	2.46	0.41
1:gM:202:LEU:HD21	1:gM:214:MET:HA	2.02	0.41
1:hi:165:VAL:HG21	1:hi:214:MET:HE1	2.03	0.41
1:hj:24:VAL:HG12	1:hj:59:VAL:HA	2.02	0.41
1:ht:64:ALA:HB1	1:hu:215:MET:HE1	2.01	0.41
1:hv:120:HIS:CG	1:hv:121:ASN:H	2.38	0.41
1:hX:37:ILE:HD12	1:hX:37:ILE:H	1.85	0.41
1:ii:20:LEU:HB3	1:ij:39:MET:HE1	2.01	0.41
1:iu:138:LEU:HD23	1:iu:138:LEU:HA	1.97	0.41
1:iF:1:PRO:O	1:iF:12:HIS:CD2	2.74	0.41
1:iK:122:PRO:HA	1:iK:123:PRO:HD3	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jc:73:ILE:HD11	1:jc:134:ILE:HG12	2.02	0.41
1:jG:30:LYS:HE2	1:jG:30:LYS:HA	2.02	0.41
1:k0:131:LYS:HG2	1:k0:135:ILE:HD12	2.02	0.41
1:kT:120:HIS:CG	1:kT:121:ASN:N	2.88	0.41
1:28:1:PRO:HA	1:28:46:GLY:O	2.19	0.41
1:lA:6:LEU:HB3	1:lF:12:HIS:CE1	2.56	0.41
1:lM:169:TYR:CE2	1:lM:215:MET:HE1	2.55	0.41
1:lR:95:GLN:HA	1:lR:120:HIS:CE1	2.56	0.41
1:2s:80:TRP:CE3	1:2s:84:HIS:HE1	2.38	0.41
1:2A:59:VAL:H	1:2A:59:VAL:HG23	1.62	0.41
1:2M:226:HIS:CE1	1:2M:228:ALA:HA	2.56	0.41
1:2N:201:ILE:HD13	1:2N:201:ILE:HA	1.95	0.41
1:3c:12:HIS:CE1	1:3c:13:GLN:O	2.73	0.41
1:3h:48:THR:HG21	1:3h:111:LEU:HD11	2.01	0.41
1:3q:58:THR:CG2	1:3r:39:MET:HE2	2.40	0.41
1:3q:124:ILE:HA	1:3q:125:PRO:HD3	1.94	0.41
1:4o:20:LEU:HD11	1:4o:58:THR:HG21	2.02	0.41
1:4B:68:MET:HE2	1:4B:68:MET:HB3	1.97	0.41
1:4L:155:GLN:HB3	1:4L:164:TYR:CD1	2.55	0.41
1:5o:21:ASN:O	1:5o:25:LYS:HG2	2.21	0.41
1:5K:40:PHE:CZ	1:5K:134:ILE:HG21	2.55	0.41
1:5S:11:VAL:CG2	1:5T:6:LEU:HD23	2.49	0.41
1:5T:138:LEU:O	1:5T:142:VAL:HG23	2.20	0.41
1:63:189:LEU:HD12	1:88:151:LEU:HD13	2.02	0.41
1:6D:138:LEU:O	1:6D:142:VAL:HG23	2.20	0.41
1:70:175:GLU:HG3	1:70:177:ALA:H	1.86	0.41
1:79:125:PRO:O	1:79:129:ILE:HG12	2.20	0.41
1:7f:1:PRO:H3	1:7f:51:ASP:CG	2.27	0.41
1:7D:56:LEU:HD22	1:7D:69:LEU:CD2	2.51	0.41
1:7T:120:HIS:CG	1:7T:121:ASN:H	2.38	0.41
1:88:191:VAL:HG13	1:88:202:LEU:HB2	2.01	0.41
1:8d:27:VAL:HG13	1:8d:32:PHE:CZ	2.55	0.41
1:95:1:PRO:HD3	1:95:15:ILE:HB	2.02	0.41
1:97:189:LEU:HA	1:97:189:LEU:HD12	1.83	0.41
1:a6:143:ARG:HD3	1:a6:174:ALA:O	2.21	0.41
1:ao:170:LYS:HB3	1:ap:231:LEU:HB2	2.03	0.41
1:bc:37:ILE:HD13	1:bc:135:ILE:HG23	2.02	0.41
1:bw:20:LEU:O	1:bw:24:VAL:HG23	2.20	0.41
1:bI:30:LYS:O	1:bI:33:SER:HB2	2.20	0.41
1:cc:15:ILE:HD11	1:cc:19:THR:CG2	2.51	0.41
1:cB:159:GLU:HG3	1:cB:164:TYR:CE1	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cJ:72:THR:HG21	1:cJ:137:GLY:HA2	2.01	0.41
1:cS:60:GLY:HA2	1:cT:35:GLU:CD	2.46	0.41
1:dI:3:VAL:HG11	1:dI:13:GLN:HG3	2.03	0.41
1:1o:202:LEU:HD23	1:1o:209:ALA:HB3	2.02	0.41
1:ei:37:ILE:HD12	1:ei:135:ILE:HG12	2.02	0.41
1:eK:58:THR:HG23	1:eL:39:MET:HE3	2.02	0.41
1:eO:211:LEU:HD12	1:eT:67:GLN:HB3	2.03	0.41
1:f1:181:VAL:CG1	1:f1:185:MET:HE3	2.51	0.41
1:g1:80:TRP:CZ2	1:g1:84:HIS:CE1	3.09	0.41
1:1B:117:TRP:CE3	1:1B:126:VAL:HG21	2.55	0.41
1:e:15:ILE:HG21	1:e:54:THR:HG21	2.02	0.41
1:i:40:PHE:CZ	1:i:134:ILE:HG21	2.55	0.41
1:m:69:LEU:HD11	1:m:134:ILE:HA	2.01	0.41
1:t:97:ARG:HH12	1:t:103:ASP:CG	2.28	0.41
1:gI:69:LEU:HD23	1:gI:69:LEU:C	2.45	0.41
1:gK:104:ILE:HG22	1:gK:130:TYR:HB2	2.01	0.41
1:h2:3:VAL:O	1:h2:4:GLN:HB2	2.19	0.41
1:h3:146:SER:HA	1:h3:147:PRO:HD3	1.93	0.41
1:h3:150:ILE:HG21	1:h3:185:MET:SD	2.61	0.41
1:ht:131:LYS:HE3	1:ht:131:LYS:HB2	1.86	0.41
1:1K:153:ILE:HG21	1:1K:153:ILE:HD13	1.79	0.41
1:hC:144:MET:HE1	1:hD:215:MET:SD	2.61	0.41
1:hE:196:PRO:HG2	1:hE:226:HIS:CE1	2.55	0.41
1:hK:181:VAL:HG11	1:hT:184:TRP:CG	2.56	0.41
1:hY:197:ASP:HB2	1:hY:221:VAL:HG13	2.01	0.41
1:ie:64:ALA:H	1:if:166:ASP:HB2	1.86	0.41
1:it:197:ASP:HB3	1:it:218:CYS:H	1.86	0.41
1:iy:104:ILE:HG22	1:iy:130:TYR:HB2	2.02	0.41
1:1U:12:HIS:CD2	1:1V:7:GLN:HE22	2.38	0.41
1:jm:140:LYS:HZ3	1:jn:212:GLU:CD	2.28	0.41
1:jt:80:TRP:CH2	1:jt:84:HIS:HE1	2.39	0.41
1:jE:161:PHE:O	1:jE:165:VAL:HG23	2.20	0.41
1:jJ:104:ILE:HD13	1:jJ:126:VAL:HG12	2.02	0.41
1:le:191:VAL:HA	1:le:202:LEU:HD13	2.02	0.41
1:lk:148:THR:HG23	1:lk:171:THR:HG23	2.02	0.41
1:lN:10:MET:HB3	1:lN:115:ILE:HG23	2.03	0.41
1:lN:99:PRO:HB3	1:lN:117:TRP:CE2	2.55	0.41
1:lO:64:ALA:HB1	1:lP:211:LEU:HD21	2.03	0.41
1:2b:117:TRP:CE3	1:2b:126:VAL:HG11	2.55	0.41
1:2d:198:CYS:O	1:2d:202:LEU:HD12	2.19	0.41
1:2e:164:TYR:CZ	1:2e:190:LEU:HD12	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3y:11:VAL:HG23	1:3z:7:GLN:NE2	2.35	0.41
1:42:191:VAL:H	1:42:191:VAL:HG23	1.49	0.41
1:44:20:LEU:O	1:44:24:VAL:HG23	2.21	0.41
1:4k:64:ALA:HB2	1:4l:165:VAL:HG23	2.02	0.41
1:4F:68:MET:HB3	1:4F:141:ILE:HD11	2.02	0.41
1:50:181:VAL:HG12	1:50:185:MET:HE2	2.02	0.41
1:56:20:LEU:HD13	1:56:58:THR:HG21	2.03	0.41
1:5N:10:MET:HB2	1:5N:115:ILE:HG23	2.03	0.41
1:6n:195:ASN:HA	1:6n:196:PRO:HD2	1.96	0.41
1:6t:87:HIS:CE1	1:6t:92:GLU:OE1	2.73	0.41
1:73:172:LEU:HD11	1:73:182:LYS:HG2	2.02	0.41
1:78:120:HIS:CG	1:78:121:ASN:N	2.89	0.41
1:78:195:ASN:HA	1:78:196:PRO:HD3	1.99	0.41
1:7m:150:ILE:HD13	1:7m:171:THR:HG22	2.01	0.41
1:7s:80:TRP:CD1	1:7s:80:TRP:C	2.98	0.41
1:8L:84:HIS:HA	1:8L:85:PRO:HD3	1.91	0.41
1:9O:126:VAL:HG13	1:9O:127:GLY:N	2.35	0.41
1:a2:150:ILE:HA	1:a2:171:THR:HG21	2.01	0.41
1:ah:2:ILE:HD13	1:ah:10:MET:SD	2.61	0.41
1:an:163:ASP:CG	1:an:167:ARG:HH21	2.28	0.41
1:aF:121:ASN:HA	1:aF:122:PRO:C	2.45	0.41
1:17:87:HIS:CE1	1:17:91:ILE:HD13	2.56	0.41
1:18:17:PRO:HA	1:18:20:LEU:HD12	2.03	0.41
1:bM:1:PRO:O	1:bM:12:HIS:CD2	2.73	0.41
1:bX:73:ILE:HD11	1:bX:134:ILE:HG12	2.02	0.41
1:ci:76:GLU:HB3	1:ci:133:TRP:CD2	2.56	0.41
1:cy:191:VAL:HG13	1:cy:202:LEU:HB2	2.02	0.41
1:cI:87:HIS:CD2	1:cI:89:GLY:H	2.38	0.41
1:cU:73:ILE:HD11	1:cU:134:ILE:HG12	2.01	0.41
1:1i:159:GLU:HA	1:1i:160:PRO:HD3	1.94	0.41
1:dN:73:ILE:HD11	1:dN:134:ILE:HG12	2.02	0.41
1:eq:47:ALA:HB3	1:eq:52:LEU:HD21	2.02	0.41
1:ev:76:GLU:HB3	1:ev:133:TRP:CG	2.56	0.41
1:f5:87:HIS:HE1	1:f5:91:ILE:HG23	1.85	0.41
1:fT:1:PRO:HA	1:fT:47:ALA:HA	2.03	0.41
1:q:77:ALA:HA	1:q:133:TRP:CH2	2.56	0.41
1:J:201:ILE:HG21	1:J:217:ALA:HB1	2.02	0.41
1:gg:96:MET:HE2	1:gg:120:HIS:NE2	2.35	0.41
1:gC:86:VAL:HG22	1:gC:86:VAL:O	2.21	0.41
1:h3:191:VAL:HG12	1:h3:214:MET:HE1	2.01	0.41
1:hW:141:ILE:HA	1:hW:144:MET:HB2	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:i3:58:THR:HA	1:i4:38:PRO:HG3	2.01	0.41
1:ie:37:ILE:HD11	1:ie:138:LEU:HB3	2.02	0.41
1:ii:101:GLY:HA2	1:ii:104:ILE:HD12	2.02	0.41
1:io:12:HIS:CE1	1:io:14:ALA:HA	2.56	0.41
1:iw:209:ALA:HB3	1:iw:214:MET:HE2	2.01	0.41
1:iz:37:ILE:HB	1:iz:38:PRO:HD3	2.02	0.41
1:j0:58:THR:HG22	1:j1:38:PRO:HB2	2.01	0.41
1:j1:60:GLY:O	1:j2:170:LYS:HE3	2.21	0.41
1:jl:20:LEU:O	1:jl:24:VAL:HG23	2.20	0.41
1:js:31:ALA:O	1:js:36:VAL:HG21	2.21	0.41
1:jU:192:GLN:HA	1:jU:199:LYS:HE3	2.02	0.41
1:k7:195:ASN:O	1:k7:196:PRO:C	2.63	0.41
1:20:1:PRO:N	1:20:12:HIS:NE2	2.68	0.41
1:ks:122:PRO:HA	1:ks:123:PRO:HD3	1.92	0.41
1:kP:35:GLU:CD	1:kP:173:ARG:HH12	2.28	0.41
1:l2:91:ILE:HD13	1:l2:91:ILE:HA	2.00	0.41
1:l4:150:ILE:O	1:l4:153:ILE:HG22	2.20	0.41
1:27:27:VAL:HA	1:27:31:ALA:HB2	2.02	0.41
1:ln:23:TRP:CZ3	1:ln:40:PHE:HB2	2.56	0.41
1:lx:79:GLU:HA	1:lx:82:ARG:HB2	2.01	0.41
1:lD:172:LEU:HD11	1:lD:185:MET:SD	2.60	0.41
1:lF:91:ILE:HD12	1:lF:91:ILE:HA	1.85	0.41
1:2a:15:ILE:HD13	1:2a:15:ILE:HG21	1.85	0.41
1:2t:161:PHE:O	1:2t:165:VAL:HG23	2.20	0.41
1:3O:77:ALA:HA	1:3O:133:TRP:CH2	2.56	0.41
1:4l:97:ARG:HH22	1:4l:103:ASP:CG	2.28	0.41
1:54:153:ILE:HD13	1:54:153:ILE:HA	1.91	0.41
1:5h:130:TYR:C	1:5h:130:TYR:CD1	2.99	0.41
1:5N:77:ALA:O	1:5N:101:GLY:HA3	2.21	0.41
1:5S:44:SER:HB2	1:5S:131:LYS:HD3	2.03	0.41
1:63:197:ASP:CG	1:89:229:ARG:HH12	2.28	0.41
1:6h:48:THR:O	1:6h:52:LEU:HG	2.20	0.41
1:6u:153:ILE:HG21	1:6u:168:PHE:HD1	1.85	0.41
1:6u:191:VAL:HG22	1:6u:202:LEU:HD23	2.03	0.41
1:6y:72:THR:HG21	1:6y:137:GLY:HA2	2.03	0.41
1:6X:2:ILE:HD12	1:6X:2:ILE:O	2.21	0.41
1:7p:119:THR:O	1:7p:119:THR:HG22	2.19	0.41
1:7K:68:MET:HE2	1:7K:68:MET:HB3	1.95	0.41
1:7T:25:LYS:HA	1:7T:25:LYS:HD3	1.97	0.41
1:8c:35:GLU:CD	1:8c:173:ARG:HH22	2.29	0.41
1:8i:159:GLU:HA	1:8i:160:PRO:HD3	1.92	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:8v:72:THR:HG21	1:8v:137:GLY:CA	2.50	0.41
1:8D:44:SER:HB3	1:8D:131:LYS:HD3	2.02	0.41
1:91:192:GLN:OE1	1:91:192:GLN:HA	2.20	0.41
1:9v:118:MET:HG3	1:9v:126:VAL:HG22	2.03	0.41
1:9B:201:ILE:HG21	1:9B:201:ILE:HD13	1.84	0.41
1:9O:172:LEU:HD11	1:9O:177:ALA:HB3	2.03	0.41
1:Z:37:ILE:HG23	1:Z:138:LEU:HD12	2.03	0.41
1:a0:146:SER:HA	1:a0:147:PRO:HD3	1.80	0.41
1:a4:92:GLU:HB3	1:a4:93:PRO:HD2	2.02	0.41
1:ac:11:VAL:HG11	1:ad:6:LEU:HD12	2.02	0.41
1:av:120:HIS:CG	1:av:121:ASN:H	2.38	0.41
1:aA:71:GLU:HG3	1:aB:211:LEU:HD12	2.03	0.41
1:aS:219:GLN:NE2	1:aS:219:GLN:H	2.19	0.41
1:aW:51:ASP:HB3	1:aW:55:MET:HE1	2.01	0.41
1:15:35:GLU:CD	1:15:35:GLU:H	2.28	0.41
1:bc:96:MET:HE2	1:bc:96:MET:HA	2.02	0.41
1:bn:154:ARG:HH22	1:cB:231:LEU:C	2.29	0.41
1:bw:13:GLN:HE22	1:bx:3:VAL:HG12	1.86	0.41
1:bz:188:THR:HG22	1:bz:189:LEU:N	2.36	0.41
1:bK:66:MET:HA	1:bK:66:MET:HE2	2.01	0.41
1:bM:62:HIS:CE1	1:bN:230:VAL:O	2.74	0.41
1:cc:15:ILE:HD11	1:cc:19:THR:HG21	2.02	0.41
1:1f:73:ILE:HG22	1:1f:133:TRP:HB3	2.02	0.41
1:cQ:88:ALA:HB1	1:cQ:98:GLU:HB2	2.02	0.41
1:dc:190:LEU:HD23	1:dc:214:MET:SD	2.61	0.41
1:de:2:ILE:HD11	1:de:115:ILE:HA	2.03	0.41
1:dC:131:LYS:HA	1:dC:134:ILE:HD12	2.01	0.41
1:eu:195:ASN:HD22	1:eu:218:CYS:HB3	1.85	0.41
1:f5:87:HIS:CE1	1:f5:91:ILE:HG23	2.56	0.41
1:fa:22:ALA:O	1:fa:26:VAL:HG23	2.21	0.41
1:fB:79:GLU:CD	1:fB:82:ARG:HH21	2.29	0.41
1:fS:80:TRP:CH2	1:fS:129:ILE:HD13	2.56	0.41
1:M:212:GLU:HG2	1:N:144:MET:HE3	2.02	0.41
1:gS:73:ILE:HD12	1:gS:130:TYR:CE1	2.56	0.41
1:gU:185:MET:HE1	1:iN:184:TRP:CZ2	2.55	0.41
1:h4:150:ILE:HD11	1:h4:168:PHE:CE1	2.56	0.41
1:hi:190:LEU:HD23	1:hi:190:LEU:C	2.46	0.41
1:hE:119:THR:O	1:hE:119:THR:HG22	2.21	0.41
1:hV:204:ALA:HB1	1:fU:200:THR:HG21	2.02	0.41
1:i0:117:TRP:CE3	1:i0:126:VAL:HG11	2.54	0.41
1:ih:181:VAL:O	1:ih:185:MET:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:iH:201:ILE:HG21	1:iH:217:ALA:HB1	2.03	0.41
1:iM:120:HIS:CG	1:iM:121:ASN:H	2.39	0.41
1:jL:12:HIS:CE1	1:jL:111:LEU:HD21	2.56	0.41
1:k4:105:ALA:HA	1:k4:130:TYR:CZ	2.55	0.41
1:k5:70:LYS:HA	1:k5:73:ILE:HD12	2.03	0.41
1:k8:168:PHE:CD1	1:k8:190:LEU:HD13	2.56	0.41
1:kg:73:ILE:HD11	1:kg:134:ILE:HG13	2.02	0.41
1:l1:67:GLN:HE21	1:l1:67:GLN:HA	1.86	0.41
1:l8:200:THR:CG2	1:lh:201:ILE:HD11	2.51	0.41
1:lj:195:ASN:HA	1:lj:196:PRO:HD3	1.91	0.41
1:lP:104:ILE:HG21	1:lP:133:TRP:CH2	2.56	0.41
1:2r:135:ILE:HG21	1:2r:135:ILE:HD13	1.87	0.41
1:2t:96:MET:HB2	1:2t:120:HIS:HE1	1.85	0.41
1:2B:70:LYS:HA	1:2B:73:ILE:HG12	2.01	0.41
1:2B:202:LEU:HD11	1:2B:214:MET:HG2	2.02	0.41
1:37:20:LEU:CD2	1:37:55:MET:HA	2.50	0.41
1:3y:71:GLU:CD	1:3z:211:LEU:H	2.26	0.41
1:3B:83:LEU:HD23	1:3B:84:HIS:CE1	2.55	0.41
1:4c:142:VAL:CG1	1:4c:174:ALA:HA	2.50	0.41
1:4f:205:LEU:HB3	1:4f:209:ALA:HB2	2.03	0.41
1:4O:181:VAL:HG22	1:6T:181:VAL:HA	2.03	0.41
1:55:120:HIS:CD2	1:55:121:ASN:H	2.38	0.41
1:5c:87:HIS:CG	1:5c:91:ILE:HD11	2.55	0.41
1:5l:25:LYS:HD2	1:5l:25:LYS:HA	1.92	0.41
1:5x:23:TRP:CH2	1:5x:40:PHE:CD1	3.09	0.41
1:5B:4:GLN:HE22	1:5B:10:MET:HE3	1.86	0.41
1:5K:173:ARG:HH11	1:5K:173:ARG:HG3	1.86	0.41
1:6e:96:MET:HE3	1:6e:96:MET:HB3	1.93	0.41
1:6q:63:GLN:HG3	1:6r:170:LYS:HG2	2.03	0.41
1:6A:165:VAL:HG22	1:6A:190:LEU:HD11	2.01	0.41
1:70:21:ASN:HD22	1:70:21:ASN:HA	1.72	0.41
1:7r:80:TRP:CZ2	1:7r:84:HIS:CE1	3.09	0.41
1:7M:138:LEU:O	1:7M:142:VAL:HG23	2.21	0.41
1:8P:143:ARG:HD2	1:8P:174:ALA:O	2.21	0.41
1:9q:17:PRO:HB3	1:9r:43:LEU:HD21	2.02	0.41
1:9F:2:ILE:HD13	1:9F:12:HIS:HA	2.03	0.41
1:ap:80:TRP:CE2	1:ap:84:HIS:CE1	3.08	0.41
1:au:159:GLU:OE1	1:au:167:ARG:NH2	2.50	0.41
1:aU:151:LEU:CD1	1:O:192:GLN:HE22	2.32	0.41
1:aY:73:ILE:HD11	1:aY:134:ILE:HG12	2.02	0.41
1:16:80:TRP:CH2	1:16:129:ILE:HD13	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:17:153:ILE:HG21	1:17:168:PHE:CD1	2.56	0.41
1:bl:69:LEU:HD23	1:bl:73:ILE:HD12	2.03	0.41
1:bq:150:ILE:HD12	1:bq:150:ILE:HA	2.02	0.41
1:bH:10:MET:HE3	1:bH:10:MET:HB3	1.91	0.41
1:1d:191:VAL:HG22	1:1d:202:LEU:HB3	2.03	0.41
1:cH:65:ALA:HA	1:cI:215:MET:HE2	2.02	0.41
1:cN:2:ILE:HB	1:cN:10:MET:SD	2.61	0.41
1:d0:151:LEU:HD12	1:d0:151:LEU:HA	1.91	0.41
1:df:81:ASP:CG	1:df:100:ARG:HH21	2.29	0.41
1:dz:104:ILE:HG21	1:dz:133:TRP:CH2	2.56	0.41
1:ea:154:ARG:HH22	1:ea:159:GLU:CD	2.28	0.41
1:ew:7:GLN:HB2	1:eB:12:HIS:CD2	2.55	0.41
1:eN:184:TRP:CZ2	1:eN:188:THR:HG21	2.55	0.41
1:eO:24:VAL:HG13	1:eO:59:VAL:HA	2.02	0.41
1:eO:49:PRO:HG3	1:eO:127:GLY:HA2	2.03	0.41
1:fd:122:PRO:HA	1:fd:123:PRO:HD3	1.88	0.41
1:fw:20:LEU:HB3	1:fw:58:THR:HG21	2.03	0.41
1:fL:80:TRP:CE3	1:fL:84:HIS:CE1	3.09	0.41
1:g3:146:SER:HA	1:g3:147:PRO:HD3	1.97	0.41
1:s:126:VAL:H	1:s:126:VAL:HG13	1.69	0.41
1:2:27:VAL:O	1:2:62:HIS:CE1	2.74	0.41
1:6:212:GLU:CD	1:7:140:LYS:HZ2	2.29	0.41
1:gq:159:GLU:HA	1:gq:160:PRO:HD2	1.93	0.41
1:gB:165:VAL:HG22	1:gB:190:LEU:HD11	2.03	0.41
1:gH:60:GLY:O	1:gI:170:LYS:HE3	2.20	0.41
1:1F:150:ILE:O	1:1F:150:ILE:HG13	2.21	0.41
1:gO:58:THR:HA	1:gP:38:PRO:HG3	2.02	0.41
1:h4:2:ILE:HD11	1:h4:10:MET:HB3	2.03	0.41
1:hc:73:ILE:HD13	1:hc:73:ILE:HA	1.91	0.41
1:1K:40:PHE:HA	1:1K:43:LEU:HD12	2.03	0.41
1:hB:159:GLU:CD	1:hB:229:ARG:HH22	2.29	0.41
1:hK:23:TRP:O	1:hK:27:VAL:HG23	2.21	0.41
1:hK:105:ALA:HA	1:hK:130:TYR:CE2	2.56	0.41
1:hM:181:VAL:HG12	1:hM:185:MET:HE3	2.02	0.41
1:hO:4:GLN:HB2	1:hO:10:MET:HA	2.03	0.41
1:hP:139:ASN:HD21	1:hP:175:GLU:CD	2.29	0.41
1:hW:81:ASP:CG	1:hW:100:ARG:HE	2.28	0.41
1:hW:218:CYS:SG	1:g2:204:ALA:HA	2.61	0.41
1:hX:152:ASP:CG	1:k9:229:ARG:HH22	2.28	0.41
1:hY:210:THR:HG23	1:hY:213:GLU:H	1.85	0.41
1:i2:197:ASP:HB2	1:i2:229:ARG:HH22	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1N:131:LYS:O	1:1N:135:ILE:HG13	2.21	0.41
1:ij:31:ALA:HB2	1:ij:62:HIS:CE1	2.56	0.41
1:il:145:TYR:HB2	1:im:231:LEU:HD11	2.03	0.41
1:il:172:LEU:HD11	1:il:182:LYS:HG2	2.02	0.41
1:ir:168:PHE:CG	1:ir:190:LEU:HD13	2.56	0.41
1:iu:26:VAL:HG21	1:iu:39:MET:HE2	2.03	0.41
1:ix:129:ILE:O	1:ix:133:TRP:CD1	2.73	0.41
1:iB:80:TRP:CE2	1:iB:84:HIS:CE1	3.09	0.41
1:iG:230:VAL:HG22	1:iG:231:LEU:N	2.36	0.41
1:1R:39:MET:O	1:1R:43:LEU:HD12	2.21	0.41
1:iM:97:ARG:HH12	1:iM:103:ASP:CG	2.29	0.41
1:iO:172:LEU:HD21	1:iO:177:ALA:HB3	2.02	0.41
1:iU:2:ILE:CG1	1:iU:118:MET:HE2	2.51	0.41
1:iV:191:VAL:HG13	1:iV:202:LEU:HB2	2.02	0.41
1:iW:80:TRP:CZ2	1:iW:84:HIS:CE1	3.05	0.41
1:j0:83:LEU:HD23	1:j0:84:HIS:CE1	2.55	0.41
1:j4:185:MET:HA	1:j4:189:LEU:HB3	2.03	0.41
1:ju:1:PRO:H3	1:ju:51:ASP:CG	2.29	0.41
1:jw:224:PRO:HB2	1:jw:227:LYS:HB2	2.03	0.41
1:jy:27:VAL:HG11	1:jy:59:VAL:HG11	2.03	0.41
1:jz:63:GLN:CG	1:jA:166:ASP:HA	2.51	0.41
1:jB:83:LEU:HD23	1:jB:84:HIS:CE1	2.56	0.41
1:jC:120:HIS:CG	1:jC:121:ASN:N	2.89	0.41
1:jE:205:LEU:HD23	1:jE:205:LEU:HA	1.90	0.41
1:jH:223:GLY:O	1:jH:226:HIS:CD2	2.74	0.41
1:jQ:218:CYS:O	1:jQ:226:HIS:CE1	2.74	0.41
1:jY:132:ARG:HA	1:jY:135:ILE:CG1	2.50	0.41
1:k3:15:ILE:HG21	1:k3:54:THR:HG21	2.03	0.41
1:k9:138:LEU:O	1:k9:142:VAL:HG23	2.21	0.41
1:21:127:GLY:O	1:21:131:LYS:HB2	2.21	0.41
1:kB:63:GLN:O	1:kB:67:GLN:HG2	2.21	0.41
1:kC:231:LEU:HD23	1:kC:231:LEU:HA	1.91	0.41
1:kS:100:ARG:HE	1:kS:103:ASP:CG	2.28	0.41
1:l4:33:SER:O	1:l4:36:VAL:HG12	2.21	0.41
1:l5:67:GLN:HE21	1:l5:67:GLN:CA	2.33	0.41
1:lh:87:HIS:CE1	1:lh:99:PRO:O	2.74	0.41
1:lw:195:ASN:HA	1:lw:196:PRO:HD3	1.84	0.41
1:lz:1:PRO:O	1:lz:12:HIS:CD2	2.74	0.41
1:lF:105:ALA:HA	1:lF:130:TYR:CE1	2.56	0.41
1:2d:1:PRO:H3	1:2d:51:ASP:CG	2.29	0.41
1:2f:205:LEU:HD23	1:2f:205:LEU:HA	1.98	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:2g:97:ARG:HH21	1:2g:113:GLU:CD	2.29	0.41
1:2g:151:LEU:HD13	1:2g:189:LEU:HD22	2.03	0.41
1:2i:1:PRO:HA	1:2i:46:GLY:O	2.21	0.41
1:2v:138:LEU:O	1:2v:142:VAL:HG23	2.20	0.41
1:2y:117:TRP:CE3	1:2y:126:VAL:HG11	2.56	0.41
1:2B:153:ILE:HG22	1:2B:164:TYR:CE2	2.56	0.41
1:2C:97:ARG:HH22	1:2C:103:ASP:CG	2.29	0.41
1:2G:66:MET:O	1:2G:70:LYS:HG3	2.21	0.41
1:2J:97:ARG:HH12	1:2J:103:ASP:CG	2.29	0.41
1:2K:64:ALA:HB2	1:2L:165:VAL:HG11	2.02	0.41
1:2N:32:PHE:CZ	1:2N:141:ILE:HG21	2.56	0.41
1:2W:144:MET:SD	1:2X:215:MET:HG2	2.61	0.41
1:31:225:GLY:O	1:31:226:HIS:HB2	2.21	0.41
1:32:159:GLU:HA	1:32:160:PRO:HD3	1.92	0.41
1:33:32:PHE:CE2	1:33:145:TYR:CD1	3.09	0.41
1:36:64:ALA:HB2	1:37:166:ASP:HA	2.03	0.41
1:3H:194:ALA:HB1	1:3H:198:CYS:HB3	2.01	0.41
1:3J:50:GLN:OE1	1:3J:50:GLN:HA	2.21	0.41
1:3P:165:VAL:HG13	1:3P:190:LEU:HD21	2.03	0.41
1:3R:20:LEU:O	1:3R:24:VAL:HG23	2.21	0.41
1:3R:117:TRP:HD1	1:3R:124:ILE:HD12	1.86	0.41
1:3S:162:ARG:HD3	1:3X:145:TYR:CZ	2.56	0.41
1:4k:120:HIS:CG	1:4k:121:ASN:H	2.38	0.41
1:4u:33:SER:O	1:4u:36:VAL:HG12	2.21	0.41
1:4A:80:TRP:CZ3	1:4A:84:HIS:HE1	2.39	0.41
1:4L:188:THR:O	1:4L:191:VAL:HG22	2.20	0.41
1:4M:226:HIS:O	1:4M:227:LYS:HB2	2.21	0.41
1:4R:166:ASP:CG	1:4R:167:ARG:HH21	2.28	0.41
1:4V:68:MET:HE2	1:4V:144:MET:HE1	2.03	0.41
1:52:80:TRP:CH2	1:52:84:HIS:ND1	2.88	0.41
1:56:97:ARG:HH12	1:56:113:GLU:CD	2.29	0.41
1:5s:148:THR:CG2	1:5s:153:ILE:HD13	2.50	0.41
1:5z:47:ALA:HB1	1:5z:51:ASP:HB2	2.03	0.41
1:5P:63:GLN:NE2	1:5P:66:MET:HG3	2.36	0.41
1:5W:115:ILE:O	1:5W:119:THR:HG22	2.21	0.41
1:66:161:PHE:O	1:66:165:VAL:HG23	2.21	0.41
1:6t:100:ARG:O	1:6t:103:ASP:HB2	2.21	0.41
1:6w:33:SER:O	1:6w:36:VAL:HG22	2.21	0.41
1:6w:69:LEU:HD23	1:6w:69:LEU:HA	1.91	0.41
1:73:66:MET:HE2	1:73:66:MET:HA	2.03	0.41
1:73:165:VAL:HG11	1:73:215:MET:HE3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:7f:99:PRO:HG3	1:7f:117:TRP:CE2	2.55	0.41
1:7i:66:MET:HE2	1:7i:66:MET:HA	2.03	0.41
1:7m:72:THR:O	1:7m:76:GLU:HG2	2.21	0.41
1:7o:105:ALA:HA	1:7o:130:TYR:CE1	2.56	0.41
1:7B:12:HIS:CD2	1:7C:7:GLN:HE21	2.38	0.41
1:7F:144:MET:HE3	1:7F:144:MET:HB3	1.99	0.41
1:7M:69:LEU:HD12	1:7M:137:GLY:HA3	2.03	0.41
1:7Y:188:THR:O	1:7Y:192:GLN:HG2	2.21	0.41
1:8f:12:HIS:CE1	1:8f:111:LEU:HD21	2.56	0.41
1:8i:97:ARG:HH21	1:8i:113:GLU:CD	2.28	0.41
1:8A:181:VAL:HG11	1:ab:184:TRP:CD2	2.55	0.41
1:8G:12:HIS:CE1	1:8G:13:GLN:O	2.73	0.41
1:8T:23:TRP:CE3	1:8T:43:LEU:HD22	2.56	0.41
1:91:23:TRP:O	1:91:27:VAL:HG13	2.21	0.41
1:98:37:ILE:H	1:98:37:ILE:HD12	1.85	0.41
1:Y:202:LEU:HD22	1:Y:214:MET:HG2	2.02	0.41
1:9R:189:LEU:C	1:9R:189:LEU:HD13	2.46	0.41
1:9Y:20:LEU:HD23	1:9Y:20:LEU:HA	1.98	0.41
1:9Z:97:ARG:HH22	1:9Z:103:ASP:CG	2.29	0.41
1:a2:157:PRO:HD2	1:bm:231:LEU:HD13	2.01	0.41
1:ac:40:PHE:CZ	1:ac:134:ILE:HG21	2.55	0.41
1:aH:138:LEU:HD23	1:aH:138:LEU:HA	1.93	0.41
1:aM:146:SER:N	1:aM:147:PRO:HD3	2.35	0.41
1:aP:92:GLU:C	1:aP:94:GLY:H	2.29	0.41
1:15:159:GLU:CD	1:15:167:ARG:HH22	2.29	0.41
1:b5:214:MET:O	1:b5:217:ALA:HB3	2.21	0.41
1:br:69:LEU:HD11	1:br:134:ILE:HA	2.03	0.41
1:by:221:VAL:HA	1:by:226:HIS:CD2	2.55	0.41
1:cf:32:PHE:CE1	1:cf:145:TYR:CD1	3.08	0.41
1:cx:116:GLY:O	1:cx:120:HIS:CD2	2.74	0.41
1:cB:1:PRO:HA	1:cB:46:GLY:O	2.21	0.41
1:dJ:228:ALA:HB3	1:dJ:231:LEU:HD21	2.03	0.41
1:dS:33:SER:C	1:dS:35:GLU:H	2.28	0.41
1:dV:25:LYS:HD3	1:dV:25:LYS:HA	1.98	0.41
1:e0:150:ILE:HD11	1:e0:168:PHE:CZ	2.56	0.41
1:e5:80:TRP:CE3	1:e5:84:HIS:HE1	2.39	0.41
1:eh:135:ILE:HA	1:eh:138:LEU:HB2	2.02	0.41
1:eo:68:MET:HE1	1:eo:144:MET:HE2	2.03	0.41
1:1r:146:SER:HA	1:1r:147:PRO:HD3	1.96	0.41
1:eH:153:ILE:HD13	1:eH:168:PHE:HA	2.01	0.41
1:eK:211:LEU:HD11	1:eK:215:MET:HE3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:eS:115:ILE:O	1:eS:119:THR:HG22	2.20	0.41
1:eZ:3:VAL:HG12	1:eZ:4:GLN:N	2.36	0.41
1:f5:98:GLU:HA	1:f5:99:PRO:HD3	1.89	0.41
1:1v:159:GLU:HA	1:1v:160:PRO:HD3	1.76	0.41
1:fc:80:TRP:CE2	1:fc:104:ILE:HD11	2.56	0.41
1:fA:39:MET:HG3	1:fF:58:THR:HG22	2.03	0.41
1:fL:5:ASN:HB2	1:fL:11:VAL:CG1	2.50	0.41
1:g6:68:MET:SD	1:g7:212:GLU:HG2	2.61	0.41
1:g6:162:ARG:H	1:g6:162:ARG:HG3	1.68	0.41
1:i:80:TRP:CZ2	1:i:104:ILE:HD11	2.56	0.41
1:j:58:THR:C	1:j:60:GLY:H	2.29	0.41
1:x:201:ILE:HD13	1:x:201:ILE:HG21	1.87	0.41
1:z:226:HIS:CD2	1:A:167:ARG:HD2	2.56	0.41
1:6:199:LYS:HE2	1:6:199:LYS:HB3	1.89	0.41
1:8:33:SER:C	1:8:35:GLU:H	2.29	0.41
1:9:168:PHE:CE2	1:9:190:LEU:HA	2.56	0.41
1:gm:79:GLU:CD	1:gm:82:ARG:HH21	2.29	0.41
1:gw:161:PHE:CE2	1:gw:202:LEU:HD11	2.55	0.41
1:h5:26:VAL:HG12	1:h5:36:VAL:HG12	2.03	0.41
1:hf:226:HIS:CD2	1:hf:226:HIS:C	2.99	0.41
1:hy:151:LEU:HD22	1:7m:184:TRP:HH2	1.86	0.41
1:i2:130:TYR:CZ	1:i2:134:ILE:HD11	2.56	0.41
1:1O:80:TRP:CD2	1:1O:84:HIS:HE1	2.38	0.41
1:im:83:LEU:HD23	1:im:84:HIS:CE1	2.56	0.41
1:iA:154:ARG:NH1	1:bL:224:PRO:O	2.54	0.41
1:iN:80:TRP:CE3	1:iN:84:HIS:HE1	2.39	0.41
1:jS:150:ILE:HD12	1:jS:150:ILE:HA	1.76	0.41
1:jW:219:GLN:HE22	1:jW:226:HIS:CG	2.39	0.41
1:jY:196:PRO:HA	1:jY:199:LYS:HG2	2.02	0.41
1:k4:186:THR:HG23	1:k4:190:LEU:HD23	2.02	0.41
1:kK:48:THR:HG21	1:kK:111:LEU:HD11	2.03	0.41
1:24:150:ILE:HD11	1:24:168:PHE:CE1	2.55	0.41
1:28:48:THR:HG22	1:28:118:MET:SD	2.61	0.41
1:lE:109:SER:HB2	1:lE:117:TRP:CZ3	2.56	0.41
1:2e:2:ILE:HD11	1:2e:115:ILE:HG12	2.03	0.41
1:2p:211:LEU:HD12	1:2p:211:LEU:HA	1.94	0.41
1:2r:146:SER:HA	1:2r:147:PRO:HD3	1.99	0.41
1:3i:62:HIS:CE1	1:3i:64:ALA:HB3	2.56	0.41
1:3v:16:SER:HA	1:3v:17:PRO:HD2	1.95	0.41
1:3P:145:TYR:CG	1:3Q:224:PRO:HA	2.56	0.41
1:3W:143:ARG:HD2	1:3W:143:ARG:HA	1.96	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:3X:69:LEU:HD11	1:3X:134:ILE:HA	2.03	0.41
1:43:73:ILE:HG22	1:43:133:TRP:HB3	2.02	0.41
1:4c:120:HIS:CD2	1:4c:121:ASN:H	2.39	0.41
1:4t:56:LEU:HD22	1:4t:69:LEU:HD21	2.03	0.41
1:4F:96:MET:HG3	1:4F:117:TRP:HE1	1.86	0.41
1:5c:22:ALA:HB3	1:5c:43:LEU:HD11	2.02	0.41
1:5e:212:GLU:OE2	1:5j:140:LYS:NZ	2.47	0.41
1:5u:1:PRO:HB3	1:5u:47:ALA:HA	2.03	0.41
1:5w:72:THR:O	1:5w:72:THR:HG22	2.21	0.41
1:5N:120:HIS:CG	1:5N:121:ASN:H	2.39	0.41
1:6c:198:CYS:HA	1:6c:201:ILE:HD11	2.02	0.41
1:6s:144:MET:HE2	1:6s:144:MET:HA	2.03	0.41
1:6L:40:PHE:CZ	1:6L:134:ILE:HG21	2.56	0.41
1:6O:165:VAL:HG12	1:6O:169:TYR:CE2	2.56	0.41
1:72:211:LEU:HD12	1:72:211:LEU:HA	1.87	0.41
1:7E:114:GLN:HA	1:7E:117:TRP:CE3	2.55	0.41
1:7P:59:VAL:HG11	1:7P:66:MET:HE3	2.02	0.41
1:7T:205:LEU:CD1	1:7T:214:MET:HA	2.50	0.41
1:82:86:VAL:HG12	1:82:98:GLU:CB	2.51	0.41
1:86:32:PHE:CE1	1:86:138:LEU:HD22	2.56	0.41
1:89:184:TRP:CG	1:8i:181:VAL:HG11	2.56	0.41
1:8e:97:ARG:HH12	1:8e:103:ASP:CG	2.29	0.41
1:8l:95:GLN:HE21	1:8l:95:GLN:HA	1.85	0.41
1:8m:153:ILE:HG22	1:8m:164:TYR:CE1	2.56	0.41
1:8q:70:LYS:HA	1:8q:73:ILE:HG12	2.03	0.41
1:8J:87:HIS:CD2	1:8J:98:GLU:H	2.39	0.41
1:8L:16:SER:HA	1:8L:17:PRO:HD3	1.95	0.41
1:96:97:ARG:HH22	1:96:103:ASP:CG	2.30	0.41
1:9f:201:ILE:HD13	1:9f:201:ILE:HA	1.91	0.41
1:9o:83:LEU:HD23	1:9o:83:LEU:HA	1.92	0.41
1:9s:111:LEU:HD21	1:9t:10:MET:HE1	2.02	0.41
1:a2:69:LEU:HD23	1:a2:69:LEU:O	2.21	0.41
1:a5:150:ILE:HD12	1:a5:150:ILE:HA	2.01	0.41
1:12:80:TRP:CZ2	1:12:84:HIS:CE1	3.09	0.41
1:av:10:MET:N	1:av:10:MET:SD	2.94	0.41
1:13:95:GLN:OE1	1:13:95:GLN:HA	2.20	0.41
1:aE:226:HIS:CE1	1:aJ:144:MET:HG3	2.55	0.41
1:aQ:91:ILE:HG21	1:aQ:96:MET:HA	2.02	0.41
1:15:201:ILE:HD13	1:15:201:ILE:HA	1.94	0.41
1:bd:153:ILE:HD11	1:bd:171:THR:HG21	2.02	0.41
1:bp:69:LEU:O	1:bp:72:THR:HB	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:c1:79:GLU:CD	1:c1:82:ARG:HH12	2.29	0.41
1:ch:151:LEU:HA	1:ch:189:LEU:HD11	2.03	0.41
1:cq:81:ASP:CG	1:cq:101:GLY:H	2.29	0.41
1:cq:175:GLU:O	1:cq:176:GLN:HB2	2.21	0.41
1:cV:37:ILE:HG21	1:cV:135:ILE:HG23	2.03	0.41
1:cY:155:GLN:HB2	1:cY:164:TYR:CG	2.56	0.41
1:1j:91:ILE:HD12	1:1j:91:ILE:HA	1.98	0.41
1:dl:215:MET:HE2	1:dl:215:MET:HA	2.03	0.41
1:dz:65:ALA:HB1	1:dz:141:ILE:HG23	2.02	0.41
1:dE:112:GLN:H	1:dE:112:GLN:CD	2.29	0.41
1:dI:190:LEU:HD23	1:dI:190:LEU:HA	1.97	0.41
1:dM:12:HIS:CE1	1:dM:111:LEU:HD21	2.56	0.41
1:dT:168:PHE:CD2	1:dT:190:LEU:HD13	2.55	0.41
1:1o:2:ILE:HD13	1:1o:115:ILE:HG23	2.02	0.41
1:e3:197:ASP:CG	1:e3:229:ARG:HH22	2.29	0.41
1:e7:85:PRO:HG2	1:e7:87:HIS:CE1	2.56	0.41
1:1p:120:HIS:CG	1:1p:121:ASN:N	2.88	0.41
1:ee:92:GLU:HB2	1:ee:95:GLN:CG	2.51	0.41
1:f7:195:ASN:HB2	1:f7:196:PRO:HD2	2.03	0.41
1:fU:80:TRP:CE2	1:fU:84:HIS:CE1	3.09	0.41
1:g:7:GLN:HA	1:g:7:GLN:HE21	1.85	0.41
1:C:205:LEU:HD11	1:C:217:ALA:CB	2.51	0.41
1:W:78:ALA:HB1	1:W:82:ARG:HD2	2.02	0.41
1:gc:104:ILE:HD11	1:gc:126:VAL:HG12	2.02	0.40
1:gx:120:HIS:CG	1:gx:121:ASN:N	2.89	0.40
1:gT:37:ILE:HD12	1:gT:37:ILE:H	1.85	0.40
1:1G:162:ARG:O	1:1G:166:ASP:HB2	2.21	0.40
1:hf:155:GLN:HA	1:hf:164:TYR:CZ	2.56	0.40
1:hg:229:ARG:HH22	1:i:197:ASP:CG	2.29	0.40
1:hC:16:SER:HA	1:hC:17:PRO:HD2	1.90	0.40
1:hM:83:LEU:HD23	1:hM:84:HIS:CE1	2.56	0.40
1:hM:155:GLN:HB2	1:hM:164:TYR:CD1	2.56	0.40
1:hO:146:SER:HA	1:hO:147:PRO:HD3	2.00	0.40
1:io:162:ARG:HH22	1:io:231:LEU:C	2.30	0.40
1:iD:68:MET:HE1	1:iE:212:GLU:HA	2.03	0.40
1:iR:56:LEU:HD11	1:iR:134:ILE:HD11	2.03	0.40
1:ja:33:SER:HB2	1:ja:34:PRO:HD2	2.03	0.40
1:jo:26:VAL:CG1	1:jo:36:VAL:HG22	2.51	0.40
1:ju:146:SER:HA	1:ju:147:PRO:HD3	1.99	0.40
1:jw:26:VAL:O	1:jw:30:LYS:HB2	2.21	0.40
1:jw:33:SER:HA	1:jw:34:PRO:HD3	1.91	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:jG:65:ALA:HB1	1:jG:141:ILE:HG12	2.03	0.40
1:jW:162:ARG:HH21	1:jW:163:ASP:CG	2.29	0.40
1:jX:156:GLY:H	1:jX:159:GLU:CD	2.29	0.40
1:ke:201:ILE:O	1:ke:204:ALA:HB3	2.21	0.40
1:kq:2:ILE:O	1:kq:2:ILE:HG23	2.20	0.40
1:kV:84:HIS:CD2	1:kV:87:HIS:HE1	2.39	0.40
1:le:161:PHE:O	1:le:165:VAL:HG23	2.20	0.40
1:lr:67:GLN:HG3	1:ls:169:TYR:CE2	2.56	0.40
1:lx:91:ILE:HD12	1:lx:91:ILE:HA	1.96	0.40
1:lJ:180:GLU:HG2	1:3t:180:GLU:HG3	2.04	0.40
1:2i:47:ALA:HB1	1:2i:52:LEU:HG	2.03	0.40
1:2B:1:PRO:HD2	1:2B:13:GLN:O	2.21	0.40
1:3j:65:ALA:HB2	1:3j:145:TYR:CZ	2.56	0.40
1:3l:65:ALA:HB2	1:3l:145:TYR:CZ	2.56	0.40
1:3u:30:LYS:HZ1	1:3z:28:GLU:CD	2.29	0.40
1:3X:226:HIS:O	1:3X:230:VAL:HG23	2.21	0.40
1:4t:150:ILE:HG22	1:4t:175:GLU:OE2	2.20	0.40
1:54:138:LEU:O	1:54:142:VAL:HG23	2.21	0.40
1:5w:124:ILE:HG23	1:5w:124:ILE:HD12	1.83	0.40
1:6k:167:ARG:HH22	1:6l:231:LEU:C	2.27	0.40
1:6t:69:LEU:HD21	1:6t:134:ILE:HG23	2.03	0.40
1:6I:20:LEU:O	1:6I:23:TRP:HB3	2.20	0.40
1:6J:165:VAL:HG22	1:6J:190:LEU:HD11	2.02	0.40
1:6W:131:LYS:HG2	1:6W:135:ILE:HD12	2.02	0.40
1:7q:80:TRP:CZ2	1:7q:84:HIS:CE1	3.09	0.40
1:7z:66:MET:HA	1:7z:69:LEU:HB2	2.01	0.40
1:81:124:ILE:HA	1:81:125:PRO:HD3	1.85	0.40
1:85:71:GLU:HA	1:85:74:ASN:HB2	2.03	0.40
1:8S:154:ARG:HA	1:8S:193:ASN:HB3	2.02	0.40
1:9c:152:ASP:CG	1:9d:229:ARG:HH22	2.28	0.40
1:9n:1:PRO:HA	1:9n:46:GLY:O	2.21	0.40
1:Z:162:ARG:HD2	1:Z:163:ASP:H	1.87	0.40
1:aV:39:MET:O	1:aV:43:LEU:HG	2.21	0.40
1:bb:202:LEU:HD23	1:bb:202:LEU:HA	1.82	0.40
1:bl:189:LEU:HD23	1:bl:189:LEU:HA	1.92	0.40
1:bm:76:GLU:HB3	1:bm:133:TRP:CD1	2.57	0.40
1:bo:67:GLN:HE21	1:bo:71:GLU:HG2	1.86	0.40
1:by:25:LYS:HA	1:by:25:LYS:HE3	2.03	0.40
1:bz:25:LYS:HD2	1:bz:25:LYS:HA	2.00	0.40
1:bL:66:MET:HB2	1:bL:66:MET:HE2	1.92	0.40
1:bS:159:GLU:HA	1:bS:160:PRO:HD2	1.92	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:cG:162:ARG:HH12	1:cG:231:LEU:C	2.28	0.40
1:cS:16:SER:HA	1:cS:17:PRO:HD3	1.93	0.40
1:1i:50:GLN:HB2	1:1i:111:LEU:HD13	2.03	0.40
1:dy:211:LEU:HA	1:dy:214:MET:HG2	2.02	0.40
1:dE:207:PRO:O	1:dE:208:ALA:HB3	2.21	0.40
1:e7:33:SER:C	1:e7:35:GLU:H	2.28	0.40
1:ef:20:LEU:HB3	1:ef:58:THR:HG21	2.02	0.40
1:es:77:ALA:HB1	1:es:101:GLY:HA3	2.03	0.40
1:eF:150:ILE:O	1:eF:153:ILE:HG22	2.21	0.40
1:eQ:144:MET:HB3	1:eQ:144:MET:HE3	1.92	0.40
1:1u:113:GLU:HB3	1:1u:117:TRP:CH2	2.56	0.40
1:fz:211:LEU:HA	1:fz:214:MET:HB2	2.03	0.40
1:fJ:154:ARG:HA	1:fJ:193:ASN:HB3	2.02	0.40
1:fT:34:PRO:HA	1:fT:37:ILE:HD13	2.02	0.40
1:1A:87:HIS:CE1	1:1A:90:PRO:O	2.74	0.40
1:9:76:GLU:HB3	1:9:133:TRP:CD2	2.56	0.40
1:ga:4:GLN:HB2	1:ga:10:MET:HA	2.04	0.40
1:hq:30:LYS:NZ	1:hq:35:GLU:OE2	2.53	0.40
1:ip:155:GLN:CD	1:ip:155:GLN:H	2.29	0.40
1:jk:120:HIS:CG	1:jk:121:ASN:N	2.90	0.40
1:jx:124:ILE:O	1:jx:126:VAL:HG23	2.22	0.40
1:jy:153:ILE:HD13	1:jy:168:PHE:HD1	1.85	0.40
1:jK:70:LYS:HA	1:jK:73:ILE:HG12	2.03	0.40
1:jL:168:PHE:CE2	1:jL:172:LEU:HD11	2.56	0.40
1:jY:178:SER:O	1:jY:182:LYS:HG3	2.22	0.40
1:k6:133:TRP:CD1	1:k6:133:TRP:N	2.88	0.40
1:20:91:ILE:HG21	1:20:91:ILE:HD13	1.86	0.40
1:kp:97:ARG:HH21	1:kp:113:GLU:CD	2.28	0.40
1:ku:195:ASN:HA	1:ku:196:PRO:HD3	1.96	0.40
1:kU:47:ALA:HB3	1:kU:52:LEU:HD21	2.03	0.40
1:lf:198:CYS:SG	1:lf:202:LEU:HD21	2.61	0.40
1:2d:112:GLN:CD	1:2d:112:GLN:H	2.29	0.40
1:2i:118:MET:HG3	1:2i:126:VAL:HG12	2.02	0.40
1:2k:45:GLU:HG3	1:2p:15:ILE:HG22	2.03	0.40
1:2D:97:ARG:NE	1:2D:113:GLU:OE1	2.50	0.40
1:2U:63:GLN:H	1:2U:63:GLN:CD	2.29	0.40
1:3O:164:TYR:CE2	1:3O:190:LEU:HD12	2.57	0.40
1:3S:162:ARG:HD3	1:3X:145:TYR:CE1	2.56	0.40
1:4c:97:ARG:HH21	1:4c:113:GLU:CD	2.28	0.40
1:4p:161:PHE:HA	1:4p:164:TYR:HB3	2.03	0.40
1:4F:92:GLU:HB2	1:4F:93:PRO:HD3	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:4O:159:GLU:OE2	1:4O:167:ARG:NH1	2.53	0.40
1:53:114:GLN:HA	1:53:117:TRP:CE3	2.55	0.40
1:5T:161:PHE:CD1	1:5T:194:ALA:HB2	2.56	0.40
1:66:143:ARG:HH21	1:67:231:LEU:C	2.30	0.40
1:6g:24:VAL:HG22	1:6g:59:VAL:HG22	2.03	0.40
1:6l:80:TRP:CZ2	1:6l:104:ILE:HD11	2.57	0.40
1:6x:135:ILE:HD13	1:6x:135:ILE:HA	1.92	0.40
1:6M:99:PRO:HB2	1:6M:104:ILE:HD11	2.03	0.40
1:6M:150:ILE:HG21	1:6M:185:MET:HE2	2.03	0.40
1:6X:80:TRP:CE3	1:6X:83:LEU:HD23	2.57	0.40
1:72:27:VAL:O	1:72:31:ALA:HA	2.22	0.40
1:86:100:ARG:HE	1:86:100:ARG:HB2	1.73	0.40
1:89:172:LEU:HD12	1:89:177:ALA:HB3	2.02	0.40
1:8b:185:MET:SD	1:8b:189:LEU:HD22	2.60	0.40
1:8U:165:VAL:HG11	1:8U:215:MET:HE1	2.03	0.40
1:9b:144:MET:HE3	1:9b:144:MET:HB3	1.94	0.40
1:a8:154:ARG:HH21	1:bs:231:LEU:C	2.29	0.40
1:aX:11:VAL:H	1:aX:11:VAL:HG22	1.52	0.40
1:b0:86:VAL:HG23	1:b0:87:HIS:CD2	2.56	0.40
1:bE:12:HIS:CG	1:bE:13:GLN:N	2.90	0.40
1:1b:64:ALA:HB1	1:1c:211:LEU:HD13	2.03	0.40
1:c0:122:PRO:HA	1:c0:123:PRO:HD3	1.86	0.40
1:ca:80:TRP:CE2	1:ca:84:HIS:CE1	3.09	0.40
1:cq:40:PHE:HA	1:cq:43:LEU:HD12	2.04	0.40
1:1f:80:TRP:CZ2	1:1f:84:HIS:CE1	3.08	0.40
1:cM:42:ALA:HB2	1:cR:58:THR:HG21	2.03	0.40
1:dk:161:PHE:CE1	1:dk:202:LEU:HD11	2.56	0.40
1:dB:139:ASN:HA	1:dB:142:VAL:HG22	2.03	0.40
1:dQ:97:ARG:HH22	1:dQ:103:ASP:CG	2.29	0.40
1:el:77:ALA:HB1	1:el:101:GLY:HA3	2.02	0.40
1:eo:84:HIS:HA	1:eo:85:PRO:HD3	1.87	0.40
1:eC:185:MET:HA	1:eC:189:LEU:HB3	2.03	0.40
1:eS:80:TRP:CE2	1:eS:84:HIS:CE1	3.10	0.40
1:f7:87:HIS:CD2	1:f7:98:GLU:H	2.40	0.40
1:fj:151:LEU:HD21	1:fz:184:TRP:CZ2	2.57	0.40
1:fo:122:PRO:HA	1:fo:123:PRO:HD3	2.01	0.40
1:1x:71:GLU:O	1:1x:75:GLU:HG3	2.21	0.40
1:f:1:PRO:H3	1:f:12:HIS:CD2	2.37	0.40
1:i:69:LEU:HB2	1:i:141:ILE:HD11	2.02	0.40
1:s:159:GLU:CD	1:s:167:ARG:HH22	2.27	0.40
1:2:79:GLU:CD	1:2:82:ARG:HH21	2.29	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:165:VAL:HG22	1:E:190:LEU:HD11	2.02	0.40
1:U:37:ILE:HD13	1:U:135:ILE:HG23	2.03	0.40
1:gK:42:ALA:HB2	1:gP:54:THR:HG21	2.03	0.40
1:gK:175:GLU:O	1:gK:182:LYS:CE	2.70	0.40
1:hv:120:HIS:CG	1:hv:121:ASN:N	2.89	0.40
1:hA:31:ALA:O	1:hA:36:VAL:HG21	2.21	0.40
1:hB:210:THR:HG22	1:hB:213:GLU:H	1.86	0.40
1:hL:104:ILE:HD13	1:hL:129:ILE:HG21	2.02	0.40
1:hW:152:ASP:CG	1:hX:229:ARG:HE	2.29	0.40
1:i8:15:ILE:H	1:i8:15:ILE:HG13	1.62	0.40
1:ia:1:PRO:H3	1:ia:51:ASP:CG	2.29	0.40
1:ii:87:HIS:HE1	1:ii:90:PRO:O	2.04	0.40
1:ik:198:CYS:HB2	1:ik:221:VAL:HG21	2.04	0.40
1:ir:104:ILE:HG23	1:ir:130:TYR:HB2	2.02	0.40
1:iG:205:LEU:HD23	1:iG:205:LEU:HA	1.97	0.40
1:iV:181:VAL:HG12	1:iV:185:MET:HE3	2.02	0.40
1:jg:97:ARG:HH22	1:jg:103:ASP:CG	2.29	0.40
1:1V:80:TRP:CZ3	1:1V:84:HIS:HE1	2.39	0.40
1:kg:231:LEU:HD23	1:kg:231:LEU:HA	1.96	0.40
1:kr:2:ILE:HG21	1:kr:10:MET:HE3	2.03	0.40
1:l1:2:ILE:HD13	1:l1:10:MET:HG2	2.04	0.40
1:l9:22:ALA:O	1:l9:26:VAL:HG23	2.21	0.40
1:la:99:PRO:HB2	1:la:104:ILE:HG13	2.03	0.40
1:ly:75:GLU:OE2	1:ly:140:LYS:NZ	2.54	0.40
1:lF:147:PRO:HG2	1:lF:148:THR:HG23	2.02	0.40
1:2g:56:LEU:HD11	1:2g:134:ILE:HD11	2.04	0.40
1:2j:32:PHE:CD2	1:2j:145:TYR:HB3	2.57	0.40
1:3a:198:CYS:SG	1:3a:217:ALA:HB1	2.60	0.40
1:3o:4:GLN:OE1	1:3o:4:GLN:HA	2.22	0.40
1:4v:20:LEU:HD13	1:4w:39:MET:SD	2.62	0.40
1:4A:211:LEU:C	1:4A:211:LEU:HD13	2.47	0.40
1:4D:37:ILE:HG12	1:4D:135:ILE:HG23	2.03	0.40
1:4V:25:LYS:HA	1:4V:25:LYS:HE3	2.04	0.40
1:5b:168:PHE:CG	1:5b:190:LEU:HD13	2.55	0.40
1:5o:135:ILE:HD13	1:5o:135:ILE:HA	2.00	0.40
1:5S:77:ALA:HB2	1:5S:133:TRP:CZ3	2.57	0.40
1:6i:115:ILE:HD12	1:6j:6:LEU:HD12	2.03	0.40
1:6l:165:VAL:HG22	1:6l:190:LEU:HD11	2.03	0.40
1:6n:33:SER:O	1:6n:36:VAL:HG12	2.21	0.40
1:6H:201:ILE:HG21	1:6H:217:ALA:HB3	2.03	0.40
1:6K:12:HIS:CE1	1:6L:45:GLU:OE1	2.75	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:6N:81:ASP:CG	1:6N:101:GLY:H	2.29	0.40
1:6S:162:ARG:HH21	1:6S:163:ASP:CG	2.29	0.40
1:6S:188:THR:O	1:6S:192:GLN:HG2	2.22	0.40
1:7G:138:LEU:HA	1:7G:141:ILE:HD12	2.02	0.40
1:7J:175:GLU:CD	1:7J:177:ALA:HB3	2.46	0.40
1:8e:155:GLN:HG2	1:8e:195:ASN:ND2	2.36	0.40
1:8n:162:ARG:HD2	1:8n:163:ASP:OD1	2.22	0.40
1:8B:1:PRO:H3	1:8B:51:ASP:CG	2.29	0.40
1:8N:36:VAL:H	1:8N:36:VAL:HG23	1.70	0.40
1:8P:201:ILE:HD12	1:8P:201:ILE:HA	1.98	0.40
1:8Q:19:THR:HG23	1:8Q:43:LEU:HD22	2.03	0.40
1:9g:165:VAL:HG22	1:9g:190:LEU:HD11	2.03	0.40
1:9q:20:LEU:HB2	1:9r:39:MET:HE1	2.04	0.40
1:9q:30:LYS:HB2	1:9q:36:VAL:HG12	2.02	0.40
1:9s:120:HIS:CE1	1:9s:124:ILE:HD12	2.57	0.40
1:9x:80:TRP:CH2	1:9x:84:HIS:CE1	3.10	0.40
1:9z:129:ILE:HA	1:9z:132:ARG:HD2	2.03	0.40
1:aP:184:TRP:CZ2	1:aP:188:THR:HG21	2.56	0.40
1:aX:37:ILE:HB	1:aX:38:PRO:HD3	2.03	0.40
1:b1:185:MET:HE2	1:b1:185:MET:HB2	1.99	0.40
1:b2:151:LEU:H	1:b2:151:LEU:CD1	2.34	0.40
1:ba:150:ILE:HD11	1:ba:168:PHE:CD2	2.57	0.40
1:bD:96:MET:HG3	1:bD:97:ARG:N	2.36	0.40
1:bK:11:VAL:HG11	1:bL:6:LEU:HD12	2.02	0.40
1:bL:1:PRO:O	1:bL:12:HIS:CD2	2.74	0.40
1:bX:2:ILE:HA	1:bX:12:HIS:HA	2.03	0.40
1:1c:37:ILE:HG23	1:1c:135:ILE:HB	2.02	0.40
1:cn:205:LEU:HD23	1:cn:205:LEU:HA	1.86	0.40
1:cC:138:LEU:HD23	1:cC:141:ILE:HD11	2.02	0.40
1:cH:168:PHE:CZ	1:cH:172:LEU:HD11	2.57	0.40
1:cI:87:HIS:CD2	1:cI:91:ILE:HG12	2.56	0.40
1:cM:83:LEU:HG	1:cM:84:HIS:CE1	2.56	0.40
1:d5:10:MET:CE	1:d5:119:THR:HG23	2.50	0.40
1:1j:81:ASP:CG	1:1j:100:ARG:HH21	2.28	0.40
1:e3:172:LEU:HD23	1:e3:172:LEU:HA	1.90	0.40
1:eb:69:LEU:HD23	1:eb:69:LEU:C	2.47	0.40
1:f2:191:VAL:HG22	1:f2:202:LEU:HB3	2.03	0.40
1:fi:150:ILE:HD12	1:fi:153:ILE:HD11	2.04	0.40
1:fl:13:GLN:HA	1:fl:13:GLN:NE2	2.37	0.40
1:ft:23:TRP:O	1:ft:27:VAL:HG23	2.21	0.40
1:fH:48:THR:HA	1:fH:118:MET:SD	2.61	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:fJ:52:LEU:HD12	1:fJ:130:TYR:CD2	2.55	0.40
1:fS:120:HIS:CG	1:fS:121:ASN:N	2.89	0.40
1:1A:179:GLN:NE2	1:1A:180:GLU:H	2.19	0.40
1:g3:73:ILE:HG22	1:g3:133:TRP:HB3	2.03	0.40
1:c:202:LEU:HD22	1:c:214:MET:HE3	2.04	0.40
1:ga:27:VAL:HG11	1:ga:59:VAL:HB	2.04	0.40
1:gk:181:VAL:HG12	1:gk:185:MET:HE3	2.03	0.40
1:gy:73:ILE:HD11	1:gy:134:ILE:HG12	2.03	0.40
1:h0:126:VAL:HA	1:h0:129:ILE:HD12	2.03	0.40
1:h8:104:ILE:HD13	1:h8:126:VAL:HG23	2.04	0.40
1:hz:141:ILE:HA	1:hz:144:MET:HE2	2.04	0.40
1:hD:199:LYS:HA	1:hD:202:LEU:HD12	2.04	0.40
1:hM:26:VAL:HG13	1:hM:27:VAL:HG13	2.04	0.40
1:iv:81:ASP:OD2	1:iv:100:ARG:NE	2.53	0.40
1:iN:3:VAL:HG11	1:iN:13:GLN:HG3	2.03	0.40
1:1V:96:MET:HB2	1:1V:120:HIS:CD2	2.57	0.40
1:jM:2:ILE:HG13	1:jM:118:MET:HB2	2.03	0.40
1:km:197:ASP:CG	1:km:229:ARG:HH12	2.30	0.40
1:ky:80:TRP:CE2	1:ky:104:ILE:HD11	2.56	0.40
1:kF:3:VAL:O	1:kF:10:MET:HA	2.21	0.40
1:lg:31:ALA:HB2	1:lg:62:HIS:CE1	2.57	0.40
1:lh:129:ILE:HG22	1:lh:133:TRP:CZ2	2.56	0.40
1:lj:144:MET:HE2	1:lj:144:MET:HA	2.03	0.40
1:2m:1:PRO:HA	1:2m:46:GLY:O	2.21	0.40
1:2F:66:MET:HB3	1:2F:66:MET:HE3	1.81	0.40
1:2K:162:ARG:HD3	1:2K:162:ARG:HA	1.99	0.40
1:3V:172:LEU:HD12	1:3V:172:LEU:HA	1.91	0.40
1:4H:165:VAL:HG22	1:4H:190:LEU:HD11	2.02	0.40
1:54:5:ASN:HD21	1:54:7:GLN:HB2	1.86	0.40
1:55:30:LYS:O	1:55:31:ALA:HB3	2.22	0.40
1:5l:161:PHE:O	1:5l:165:VAL:HG23	2.21	0.40
1:5G:159:GLU:CD	1:5G:167:ARG:HH21	2.29	0.40
1:5V:125:PRO:HB2	1:5V:128:GLU:HB2	2.04	0.40
1:64:10:MET:HE3	1:64:119:THR:HG21	2.02	0.40
1:6d:87:HIS:CG	1:6d:88:ALA:N	2.90	0.40
1:6v:114:GLN:HA	1:6v:117:TRP:CE3	2.56	0.40
1:6F:172:LEU:HD11	1:6F:182:LYS:HG2	2.04	0.40
1:6V:155:GLN:HB2	1:6V:164:TYR:CG	2.57	0.40
1:7w:80:TRP:CD1	1:7w:80:TRP:C	2.99	0.40
1:7w:168:PHE:CE2	1:7w:190:LEU:HD13	2.56	0.40
1:7Y:190:LEU:HA	1:7Y:190:LEU:HD23	1.88	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:86:3:VAL:O	1:86:4:GLN:CB	2.69	0.40
1:88:161:PHE:O	1:88:165:VAL:HG23	2.21	0.40
1:8w:2:ILE:HD13	1:8w:2:ILE:HA	1.84	0.40
1:8w:153:ILE:HG13	1:8w:171:THR:HG21	2.04	0.40
1:8C:227:LYS:HD2	1:8C:227:LYS:HA	1.89	0.40
1:8K:52:LEU:O	1:8K:55:MET:HB2	2.22	0.40
1:8W:27:VAL:HG11	1:8W:59:VAL:HG13	2.03	0.40
1:90:162:ARG:HD2	1:95:145:TYR:CE1	2.57	0.40
1:93:69:LEU:HD13	1:93:137:GLY:HA3	2.04	0.40
1:9n:27:VAL:HG21	1:9n:59:VAL:HG11	2.02	0.40
1:9n:169:TYR:CE1	1:9n:211:LEU:HD22	2.57	0.40
1:9B:15:ILE:HD13	1:9B:54:THR:HG21	2.04	0.40
1:9Q:80:TRP:CE2	1:9Q:84:HIS:CE1	3.10	0.40
1:aV:83:LEU:HD23	1:aV:84:HIS:CE1	2.55	0.40
1:bw:80:TRP:CZ2	1:bw:84:HIS:CE1	3.09	0.40
1:bB:221:VAL:HG22	1:bB:226:HIS:CE1	2.57	0.40
1:bD:1:PRO:H3	1:bD:51:ASP:CG	2.30	0.40
1:bO:161:PHE:CD2	1:bO:214:MET:HB3	2.57	0.40
1:1d:76:GLU:HB3	1:1d:133:TRP:CD1	2.57	0.40
1:ch:85:PRO:HB2	1:ch:88:ALA:HB3	2.04	0.40
1:cy:199:LYS:HG2	1:cy:203:LYS:HE2	2.03	0.40
1:cY:146:SER:HA	1:cY:147:PRO:HD3	1.82	0.40
1:cZ:117:TRP:CE3	1:cZ:126:VAL:HG11	2.56	0.40
1:d8:12:HIS:CE1	1:d8:111:LEU:HD11	2.56	0.40
1:dt:1:PRO:HA	1:dt:46:GLY:O	2.22	0.40
1:dy:80:TRP:CZ2	1:dy:84:HIS:CE1	3.10	0.40
1:dK:97:ARG:HH22	1:dK:103:ASP:CG	2.30	0.40
1:dM:72:THR:HG21	1:dM:137:GLY:HA2	2.03	0.40
1:ep:68:MET:HE3	1:ep:68:MET:HB3	1.97	0.40
1:ew:188:THR:HG22	1:ew:192:GLN:HG2	2.03	0.40
1:eJ:63:GLN:HG3	1:eK:169:TYR:HB2	2.04	0.40
1:f3:23:TRP:CZ3	1:f3:40:PHE:HB2	2.56	0.40
1:f8:163:ASP:CG	1:f8:167:ARG:HE	2.30	0.40
1:fb:141:ILE:HD13	1:fb:141:ILE:HA	1.93	0.40
1:fg:131:LYS:HB2	1:fg:131:LYS:HE3	1.90	0.40
1:fJ:164:TYR:CE2	1:fJ:190:LEU:HD12	2.57	0.40
1:fX:80:TRP:CD2	1:fX:84:HIS:CE1	3.09	0.40
1:b:40:PHE:CZ	1:b:134:ILE:HG21	2.57	0.40
1:j:97:ARG:HH21	1:j:113:GLU:CD	2.29	0.40
1:I:216:THR:O	1:I:219:GLN:HB2	2.22	0.40
1:J:151:LEU:HD21	1:J:185:MET:HE1	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:1:PRO:H3	1:K:51:ASP:CG	2.29	0.40
1:gz:144:MET:HE2	1:gz:144:MET:HB2	1.90	0.40
1:h3:55:MET:O	1:h3:59:VAL:HG23	2.21	0.40
1:hU:181:VAL:CG1	1:hU:185:MET:HE3	2.52	0.40
1:i2:33:SER:HA	1:i2:34:PRO:HD3	1.84	0.40
1:i3:12:HIS:CG	1:i3:115:ILE:HD11	2.56	0.40
1:id:168:PHE:CG	1:id:190:LEU:HD11	2.56	0.40
1:ih:104:ILE:HA	1:ih:126:VAL:HG13	2.03	0.40
1:iG:1:PRO:O	1:iG:12:HIS:CD2	2.74	0.40
1:iU:189:LEU:HA	1:iU:189:LEU:HD12	1.87	0.40
1:jd:168:PHE:CE1	1:jd:190:LEU:HA	2.56	0.40
1:jr:33:SER:HA	1:jr:142:VAL:HG22	2.03	0.40
1:jE:65:ALA:HB1	1:jE:141:ILE:HG12	2.03	0.40
1:jQ:153:ILE:HD13	1:jQ:168:PHE:HB2	2.03	0.40
1:k1:150:ILE:HG22	1:k1:189:LEU:HD12	2.03	0.40
1:ke:68:MET:HE2	1:kf:212:GLU:HG3	2.03	0.40
1:kL:151:LEU:HD13	1:bC:189:LEU:CD1	2.51	0.40
1:kR:58:THR:HA	1:kS:35:GLU:HB2	2.02	0.40
1:l8:128:GLU:O	1:l8:131:LYS:HG3	2.21	0.40
1:lr:20:LEU:O	1:lr:24:VAL:HG23	2.22	0.40
1:lC:80:TRP:CH2	1:lC:84:HIS:CE1	3.10	0.40
1:2w:211:LEU:HD12	1:2w:211:LEU:HA	1.97	0.40
1:2V:20:LEU:HD13	1:2W:42:ALA:HB1	2.04	0.40
1:2Z:168:PHE:CD2	1:2Z:190:LEU:HD13	2.57	0.40
1:3f:4:GLN:HG3	1:3f:45:GLU:HG3	2.03	0.40
1:3y:191:VAL:HA	1:3y:202:LEU:HD13	2.02	0.40
1:3F:220:GLY:HA3	1:5J:203:LYS:HB2	2.02	0.40
1:3H:80:TRP:CE2	1:3H:104:ILE:HD11	2.57	0.40
1:41:138:LEU:HD23	1:41:141:ILE:HD12	2.04	0.40
1:4f:40:PHE:CZ	1:4f:134:ILE:HG21	2.57	0.40
1:4f:155:GLN:HB3	1:4f:164:TYR:HB2	2.04	0.40
1:4p:150:ILE:HD11	1:4p:168:PHE:CE2	2.57	0.40
1:4v:37:ILE:HB	1:4v:38:PRO:HD3	2.04	0.40
1:4F:35:GLU:CD	1:4F:35:GLU:H	2.29	0.40
1:4R:189:LEU:HD23	1:4R:189:LEU:HA	1.99	0.40
1:4W:165:VAL:HG22	1:4W:190:LEU:HD11	2.03	0.40
1:4Y:81:ASP:CG	1:4Y:100:ARG:HH21	2.29	0.40
1:5I:67:GLN:OE1	1:5I:70:LYS:HE2	2.21	0.40
1:6H:15:ILE:HD13	1:6H:51:ASP:HB3	2.03	0.40
1:6I:86:VAL:HG21	1:6I:100:ARG:HG2	2.03	0.40
1:70:117:TRP:CE3	1:70:126:VAL:HG11	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:75:160:PRO:HG3	1:75:226:HIS:CG	2.56	0.40
1:7x:10:MET:HG2	1:7x:119:THR:HG22	2.04	0.40
1:7y:78:ALA:O	1:7y:82:ARG:HG3	2.21	0.40
1:82:10:MET:HG3	1:82:119:THR:HA	2.04	0.40
1:87:22:ALA:O	1:87:26:VAL:HG23	2.21	0.40
1:8a:80:TRP:CZ3	1:8a:84:HIS:HE1	2.39	0.40
1:8g:68:MET:HE1	1:8g:144:MET:HB3	2.03	0.40
1:8h:2:ILE:HG13	1:8h:10:MET:HE2	2.03	0.40
1:8i:19:THR:HG23	1:8i:43:LEU:HD22	2.04	0.40
1:8k:11:VAL:HG22	1:8l:7:GLN:CG	2.51	0.40
1:8q:161:PHE:CZ	1:8q:202:LEU:HD11	2.56	0.40
1:8v:80:TRP:CE3	1:8v:84:HIS:HE1	2.40	0.40
1:8I:114:GLN:HA	1:8I:117:TRP:CE3	2.56	0.40
1:9o:97:ARG:HH21	1:9o:113:GLU:CD	2.30	0.40
1:9o:150:ILE:HD11	1:9o:168:PHE:CE2	2.57	0.40
1:9q:147:PRO:CB	1:9r:226:HIS:CD2	3.04	0.40
1:a5:67:GLN:HB3	1:a6:211:LEU:HD11	2.04	0.40
1:ao:150:ILE:HD12	1:ao:150:ILE:HA	1.97	0.40
1:aQ:23:TRP:CZ3	1:aQ:40:PHE:HB2	2.57	0.40
1:c3:130:TYR:CE2	1:c3:134:ILE:HD11	2.56	0.40
1:cf:80:TRP:CZ2	1:cf:84:HIS:HE1	2.40	0.40
1:1d:81:ASP:CG	1:1d:100:ARG:HH21	2.29	0.40
1:ci:154:ARG:HH12	1:L:231:LEU:C	2.30	0.40
1:db:128:GLU:HA	1:db:131:LYS:HE2	2.04	0.40
1:df:32:PHE:CD1	1:df:145:TYR:HB2	2.56	0.40
1:dU:32:PHE:CD1	1:dU:141:ILE:HG21	2.56	0.40
1:dY:63:GLN:H	1:dZ:166:ASP:CG	2.29	0.40
1:e8:68:MET:HE3	1:e8:68:MET:HB3	1.89	0.40
1:et:80:TRP:CZ2	1:et:84:HIS:CE1	3.09	0.40
1:eF:28:GLU:CD	1:eG:30:LYS:HZ1	2.28	0.40
1:eP:2:ILE:HG13	1:eP:12:HIS:HB2	2.04	0.40
1:eQ:80:TRP:CZ2	1:eQ:84:HIS:CE1	3.10	0.40
1:f4:1:PRO:H3	1:f4:51:ASP:CG	2.29	0.40
1:fk:190:LEU:C	1:fk:190:LEU:HD23	2.46	0.40
1:1x:177:ALA:O	1:1x:178:SER:C	2.63	0.40
1:fW:96:MET:SD	1:fW:120:HIS:CD2	3.14	0.40
1:g3:40:PHE:CZ	1:g3:131:LYS:HG2	2.56	0.40
1:C:104:ILE:CD1	1:C:126:VAL:HG12	2.50	0.40
1:R:31:ALA:HA	1:R:36:VAL:HG11	2.03	0.40
1:R:165:VAL:HG12	1:S:64:ALA:HB1	2.03	0.40
1:U:97:ARG:HH21	1:U:113:GLU:CD	2.29	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Tomogram visualisation

This section contains visualisations of the EMDB entry EMD-5639. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

6.1 Orthogonal projections

This section was not generated.

6.2 Central slices

This section was not generated.

6.3 Largest variance slices

This section was not generated.

6.4 Orthogonal standard-deviation projections (False-color)

This section was not generated.

6.5 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Tomogram analysis (i)

This section contains the results of statistical analysis of the tomogram.

7.1 Map-value distribution (i)

This section was not generated.

8 Map-model fit

This section was not generated.